Analytical Resources, Incorporated
Analytical Chemists and Consultants

June 7, 2007

Jennifer Hawkins
Tetra Tech EC
19803 North Creek Parkway
Bothell, WA 98011

RE: Client Project: Thea Foss OMMP Year 3
ARI Job No. KZ56

Dear Jennifer:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Client Service Manager
sue@arilabs.com
206/695-6207

Enclosures

cc: eFile KZ56

SD/sdrd

Chain of Custody
Documentation

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: KZ56	Turn-around Requested: Standard
ARI Client Company: Tetra Tech EC	Phone: 425-482-7678
Client Contact: Jennifer Hawkins	
Client Project Name: Thea Foss OMMP Year 3	
Client Project #: 3306	Samplers: Jen Hawkins

Page: 1 of 2

Date: 5-17-07 Ice Present? Y

No. of Coolers: 4 Cooler Temps: 0, 2.8, 3, 3.8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PAHs BEHP	Hg, Pb, Zn	PCB Aroclor	TPH Diesel + motor oil	Grain size	TOC			Notes/Comments
Y3-RC11-S	5-16-07	1010	Sed	5	X	X	X	X	X	X			
Y3-RC01-S		1107			X	X	X	X	X	X			
Y3-RC13-S		1125			X	X	X	X	X	X			
Y3-RC14-S		1140			X	X	X	X	X	X			
Y3-RC10-S		1332			X	X	X	X	X	X			
Y3-RC05-S		1422			X	X	X	X	X	X			
Y3-RC07-S		1510			X	X	X	X	X	X			
Y3-RC08-S		1600		11	X	X	X	X	X	X			include Lab MS/MSD
Y3-RC15-S		1650		5	X	X	X	X	X	X			
Y3-RC09-S		1734		5	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
See Statement of work for details	(Signature) [signature]	(Signature) Bob Congleton	(Signature)	(Signature)
	Printed Name: Jennifer Hawkins	Printed Name: Bob Congleton	Printed Name:	Printed Name:
	Company: Tetra Tech EC	Company: ARI	Company:	Company:
	Date & Time: 5-17-07 1532	Date & Time: 5/17/07 1532	Date & Time:	Date & Time:

0002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: Standard
ARI Client Company: Tetra Tech EC	Phone: 425-482-7678
Client Contact: Jennifer Hawkins	
Client Project Name: Thea Foss OMMP Year 3	
Client Project #: 3306,0009	Samplers: Jennifer Hawkins

Page: 2 of 2

Date: 5-17-07 | Ice Present? Y

No. of Coolers: 4 | Cooler Temps: 6, 2, 8, 3, 3, 8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PAHs BEHP	Ag, Pb, Zn	PCBs Aroclors	TPH Diesel + motor oil	Grain Size	TOC			Notes/Comments
Y3-RC02-S	5-16-07	1802	Sed	5	X	X	X	X	X	X			
Y3-RC12-S	5-17-07	800	↓	↓	X	X	X	X	X	X			
Y3-RC06-S	5-17-07	825	↓	↓	X	X	X	X	X	X			
Y3-RC04-S	5-17-07	849	↓	↓	X	X	X	X	X	X			
Y3-RB-01	5-17-07	950	Water	7	X	X	X	X					

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
0003	(Signature) [signature]	(Signature) Bob Congleton	(Signature)	(Signature)
	Printed Name: Jennifer Hawkins	Printed Name: Bob Congleton	Printed Name:	Printed Name:
	Company: Tetra Tech EC	Company: ARI	Company:	Company:
	Date & Time: 5-17-07 1532	Date & Time: 5/17/07 1532	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: TETRA TECH
Project Name: Thea Foss
COC No: —
Delivered by: Hand
Assigned ARI Job No: KZ56
Tracking No: —

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)
Were custody papers included with the cooler? (YES) NO
Were custody papers properly filled out (ink, signed, etc.) (YES) NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry 6.2, 3.8, 3.0 °C

Cooler Accepted by: Bob Congleton Date: 5/17/07 Time: 1532

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ICE
Was sufficient ice used (if appropriate)? (YES) NO
Were all bottles sealed in individual plastic bags? (YES) NO
Did all bottle arrive in good condition (unbroken)? (YES) NO
Were all bottle labels complete and legible? (YES) NO
Did all bottle labels and tags agree with custody papers? (YES) NO
Were all bottles used correct for the requested analyses? (YES) NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES (NO)
Were all VOC vials free of air bubbles? (NA) YES NO
Was sufficient amount of sample sent in each bottle? (YES) NO

Samples Logged by: EC Date: 5/17/07 Time: 1800

***** Notify Project Manager of discrepancies or concerns *****

Explain discrepancies or negative responses:

THERE WAS AN EXTRA SET OF SAMPLES. I HAD AN ID ON IT BUT THE OTHER 4 ARE BLANK. SO I LOGGED ALL 5 WITH THE SAMPLE ID OF Y3-RC03-S WITH NO ANALYSIS, AND PUT THEM ON HOLD UNTIL WE KNOW WHAT TO DO WITH THEM

> 18:30 sampling time
ANALYSE per J. Hawkins
05/18/07 SMD

By: EC Date: 5/17/07

Case Narrative

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative

Client: Tetra Tech EC
Project: Thea Foss OMMP Year 3
Matrix: Sediment
ARI Job No. KZ56

Sample receipt

Fourteen sediments and one rinsate water sample were received in good condition on May 17, 2007 under ARI Job KZ56. The cooler temperatures measured by IR Thermometer following ARI SOP were 2.8, 3.0, 3.8 and 6.0°C. One sample received was not listed on the COC. The client confirmed the sample should be analyzed.

Semivolatile PAH (Method 8270D)

The samples were initially screened to determine if a response was present that would affect sample analysis. Several samples were extracted at lesser sample volumes based on the screens. Sample extracts were analyzed within recommended holding times.

Analyses met all ARI and project specific requirements, with the exception of sample Y3-RC04-S, which was re-extracted within recommended holding time for sample aliquots stored frozen. Several samples were initially analyzed at a 1:3 dilution due to extract characteristics. Samples required further dilution and both sets of results have been included in this report.

PCB (Method 8081)

The samples were initially screened to determine if a response was present that would affect sample analysis. No modifications were required. Samples were extracted and extracts were analyzed within recommended holding times.

Analyses met all ARI and project specific requirements, with the exception of closing CCALs for Aroclor 1254. The outliers were attributed to sample matrix based on the chromatograms, and samples were diluted and rerun to reduce matrix effect. Both sets of results have been included in this report.

Diesel-Extended Range Hydrocarbons (Method NWTPH-Dx)

Samples were extracted and analyzed within holding time. Analyses met ARI and project specific requirements, with the exception of high recoveries in the MS/MSD, attributed to

high concentrations in the parent sample. No corrective action is required. Most sample surrogate results were diluted out due to high concentrations of target analyte in the samples.

Metals Analysis (6010B/7470A/7471A)

Samples were prepared and analyzed within holding time. Analyses met ARI and project specific requirements.

General Chemistry (TOC)

Samples were prepared and analyzed within holding time. Analyses met ARI and project specific requirements.

Geotechnical Parameters

A geotechnical-specific narrative follows this page.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Tetra Tech	Project No.: KZ56
Client Project: THEA FOSS OMMP YEAR 3: 3306	

Case Narrative

1. Fifteen samples were received on May 17, 2007 and submitted for grain size analysis according to PSEP methodology.
2. The samples were run in a single batch, and sample Y3-RC08-S was chosen for triplicate analysis. The triplicate data is reported on the QA summary.
3. All of the samples, excluding samples Y3-RC10-S, Y3-RC07-S and Y3-RC06-S, visually contained organic matter, which may have broken down during the sieving process, affecting grain size analysis.
4. The data is provided in summary tables and plots.
5. There were no other noted anomalies in this project.

Approved by: Taylor McKenzie Date: 6/1/07
Title: Lead Technician

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Data Summary Package

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Adam L. Rains
Created: 5/18/07

Worklist: 7814
Analyst: ALR
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	KZ56A 07-9547 Y3-RC11-S	1.16	14.60	8.34	53.4	7.0
2.	KZ56B 07-9548 Y3-RC01-S	1.18	14.18	4.80	27.8	7.0
3.	KZ56C 07-9549 Y3-RC13-S	1.12	10.78	5.10	41.2	7.0
4.	KZ56D 07-9550 Y3-RC14-S	1.12	13.18	7.54	53.2	6.9
5.	KZ56E 07-9551 Y3-RC10-S	1.16	12.38	9.54	74.7	7.2
6.	KZ56F 07-9552 Y3-RC05-S	1.18	10.58	5.60	47.0	7.2
7.	KZ56G 07-9553 Y3-RC07-S	1.18	10.08	6.26	57.1	7.0
8.	KZ56H 07-9554 Y3-RC08-S	1.16	10.44	6.00	52.2	7.1
9.	KZ56I 07-9555 Y3-RC15-S	1.18	10.62	6.18	53.0	7.1
10.	KZ56J 07-9556 Y3-RC09-S	1.12	12.44	6.60	48.4	7.1
11.	KZ56K 07-9557 Y3-RC02-S	1.18	14.08	6.28	39.5	6.8
12.	KZ56L 07-9558 Y3-RC12-S	1.16	12.60	8.56	64.7	7.2
13.	KZ56M 07-9559 Y3-RC06-S	1.18	10.36	5.94	51.9	7.3
14.	KZ56N 07-9560 Y3-RC04-S	1.12	11.46	6.00	47.2	7.2
15.	KZ56P 07-9562 Y3-RC03-S	1.12	11.28	7.26	60.4	7.3

Solids Data Entry Report Checked by: ESR Date: 5/22/07
Date: 05/22/07 Data Analyst: DM

Solids Determination performed on 05/21/07 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
KZ56	A	Y3-RC11-S	1.017	10.662	5.327	44.69
KZ56	B	Y3-RC01-S	1.021	10.456	3.442	25.66
KZ56	C	Y3-RC13-S	1.022	10.595	4.492	36.25
KZ56	D	Y3-RC14-S	1.000	10.406	5.978	52.92
KZ56	E	Y3-RC10-S	1.028	10.606	7.424	66.78
KZ56	F	Y3-RC05-S	1.016	10.251	5.169	44.97
KZ56	G	Y3-RC07-S	1.037	10.317	5.829	51.64
KZ56	H	Y3-RC08-S	1.031	10.285	5.548	48.81
KZ56	I	Y3-RC15-S	1.034	10.911	5.722	47.46
KZ56	J	Y3-RC09-S	1.032	10.830	5.160	42.13
KZ56	K	Y3-RC02-S	1.020	10.887	4.276	33.00
KZ56	L	Y3-RC12-S	1.019	10.387	6.707	60.72
KZ56	M	Y3-RC06-S	1.038	10.658	5.602	47.44
KZ56	N	Y3-RC04-S	0.992	10.618	5.221	43.93
KZ56	P	Y3-RC03-S	0.994	10.479	6.163	54.50

SEMIVOLATILE ORGANICS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: Y3-RB-01
SAMPLE

Lab Sample ID: KZ560
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/21/07
Date Analyzed: 05/25/07 15:25
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	1.0	< 1.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.2%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	80.8%	d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	71.7%	2-Fluorophenol	67.5%
2,4,6-Tribromophenol	72.5%	d4-2-Chlorophenol	72.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-052107	70.0%	58.0%	74.4%	57.6%	65.9%	62.9%	64.0%	66.4%	0
LCS-052107	83.2%	77.2%	91.2%	70.0%	75.2%	74.1%	85.6%	74.9%	0
LCSD-052107	83.6%	73.6%	88.8%	64.4%	73.3%	71.5%	85.9%	72.3%	0
Y3-RB-01	79.2%	70.4%	80.8%	70.4%	71.7%	67.5%	72.5%	72.8%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(53-103)	(44-98)
(FBP) = 2-Fluorobiphenyl	(53-102)	(44-101)
(TPH) = d14-p-Terphenyl	(59-115)	(28-121)
(DCB) = d4-1,2-Dichlorobenzene	(44-94)	(36-95)
(PHL) = d5-Phenol	(46-105)	(42-95)
(2FP) = 2-Fluorophenol	(48-99)	(41-90)
(TBP) = 2,4,6-Tribromophenol	(54-115)	(48-112)
(2CP) = d4-2-Chlorophenol	(54-104)	(46-98)

Prep Method: SW3520C
Log Number Range: 07-9561 to 07-9561

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: LCS-052107
LCS/LCSD

Lab Sample ID: LCS-052107
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted LCS/LCSD: 05/21/07

Date Analyzed LCS: 05/25/07 12:40
LCSD: 05/25/07 13:13
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	18.1	25.0	72.4%	18.4	25.0	73.6%	1.6%
2-Methylnaphthalene	17.5	25.0	70.0%	17.9	25.0	71.6%	2.3%
Acenaphthylene	19.0	25.0	76.0%	19.4	25.0	77.6%	2.1%
Acenaphthene	19.3	25.0	77.2%	20.0	25.0	80.0%	3.6%
Dibenzofuran	18.9	25.0	75.6%	19.6	25.0	78.4%	3.6%
Fluorene	18.6	25.0	74.4%	19.4	25.0	77.6%	4.2%
Phenanthrene	18.1	25.0	72.4%	19.5	25.0	78.0%	7.4%
Anthracene	17.8	25.0	71.2%	18.8	25.0	75.2%	5.5%
Fluoranthene	18.4	25.0	73.6%	19.7	25.0	78.8%	6.8%
Pyrene	21.4	25.0	85.6%	21.4	25.0	85.6%	0.0%
Benzo(a)anthracene	19.9	25.0	79.6%	19.6	25.0	78.4%	1.5%
bis(2-Ethylhexyl)phthalate	21.4	25.0	85.6%	23.1	25.0	92.4%	7.6%
Chrysene	18.7	25.0	74.8%	18.7	25.0	74.8%	0.0%
Benzo(b)fluoranthene	19.3	25.0	77.2%	20.7	25.0	82.8%	7.0%
Benzo(k)fluoranthene	20.2	25.0	80.8%	21.6	25.0	86.4%	6.7%
Benzo(a)pyrene	18.1	25.0	72.4%	18.9	25.0	75.6%	4.3%
Indeno(1,2,3-cd)pyrene	18.7	25.0	74.8%	19.6	25.0	78.4%	4.7%
Dibenz(a,h)anthracene	19.0	25.0	76.0%	20.0	25.0	80.0%	5.1%
Benzo(g,h,i)perylene	18.8	25.0	75.2%	19.7	25.0	78.8%	4.7%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	83.2%	83.6%
2-Fluorobiphenyl	77.2%	73.6%
d14-p-Terphenyl	91.2%	88.8%
d4-1,2-Dichlorobenzene	70.0%	64.4%
d5-Phenol	75.2%	73.3%
2-Fluorophenol	74.1%	71.5%
2,4,6-Tribromophenol	85.6%	85.9%
d4-2-Chlorophenol	74.9%	72.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

KZ56MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No: KZ56

Project: THEA FOSS OMMP YEAR

Lab File ID: KZ60MB

Date Extracted: 05/21/07

Instrument ID: NT6

Date Analyzed: 05/25/07

Matrix: LIQUID

Time Analyzed: 1206

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	KZ56LCSW1	KZ56LCSW1	KZ60SB	05/25/07
02	KZ56LCSDW1	KZ56LCSDW1	KZ60SBD	05/25/07
03	Y3-RB-01	KZ56O	KZ56O	05/25/07
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-052107
METHOD BLANK

Lab Sample ID: MB-052107
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/21/07
Date Analyzed: 05/25/07 12:06
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	1.0	< 1.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.0%	2-Fluorobiphenyl	58.0%
d14-p-Terphenyl	74.4%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	65.9%	2-Fluorophenol	62.9%
2,4,6-Tribromophenol	64.0%	d4-2-Chlorophenol	66.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC11-S
SAMPLE

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 18:48
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 46.6%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	60	120
91-57-6	2-Methylnaphthalene	60	48 J
208-96-8	Acenaphthylene	60	< 60 U
83-32-9	Acenaphthene	60	60
132-64-9	Dibenzofuran	60	< 60 U
86-73-7	Fluorene	60	52 J
85-01-8	Phenanthrene	60	630
120-12-7	Anthracene	60	150
206-44-0	Fluoranthene	60	1,500
129-00-0	Pyrene	60	1,400
56-55-3	Benzo(a)anthracene	60	610
117-81-7	bis(2-Ethylhexyl)phthalate	60	5,400 E
218-01-9	Chrysene	60	1,000
205-99-2	Benzo(b)fluoranthene	60	1,300
207-08-9	Benzo(k)fluoranthene	60	980
50-32-8	Benzo(a)pyrene	60	750
193-39-5	Indeno(1,2,3-cd)pyrene	60	350
53-70-3	Dibenz(a,h)anthracene	60	79
191-24-2	Benzo(g,h,i)perylene	60	380

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.4%	2-Fluorobiphenyl	71.8%
d14-p-Terphenyl	65.2%	d4-1,2-Dichlorobenzene	61.3%
d5-Phenol	63.5%	2-Fluorophenol	50.1%
2,4,6-Tribromophenol	66.3%	d4-2-Chlorophenol	62.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC11-S
DILUTION

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 09:20
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 46.6%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	200	120 J
91-57-6	2-Methylnaphthalene	200	< 200 U
208-96-8	Acenaphthylene	200	< 200 U
83-32-9	Acenaphthene	200	< 200 U
132-64-9	Dibenzofuran	200	< 200 U
86-73-7	Fluorene	200	< 200 U
85-01-8	Phenanthrene	200	720
120-12-7	Anthracene	200	170 J
206-44-0	Fluoranthene	200	1,900
129-00-0	Pyrene	200	1,700
56-55-3	Benzo(a)anthracene	200	680
117-81-7	bis(2-Ethylhexyl)phthalate	200	6,100
218-01-9	Chrysene	200	1,100
205-99-2	Benzo(b)fluoranthene	200	1,200
207-08-9	Benzo(k)fluoranthene	200	920
50-32-8	Benzo(a)pyrene	200	830
193-39-5	Indeno(1,2,3-cd)pyrene	200	550
53-70-3	Dibenz(a,h)anthracene	200	130 J
191-24-2	Benzo(g,h,i)perylene	200	620

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.8%	2-Fluorobiphenyl	76.0%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	74.1%	2-Fluorophenol	60.3%
2,4,6-Tribromophenol	71.5%	d4-2-Chlorophenol	68.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC01-S
SAMPLE

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 19:21
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 20.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 72.2%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	150	110 J
91-57-6	2-Methylnaphthalene	150	< 150 U
208-96-8	Acenaphthylene	150	< 150 U
83-32-9	Acenaphthene	150	< 150 U
132-64-9	Dibenzofuran	150	< 150 U
86-73-7	Fluorene	150	100 J
85-01-8	Phenanthrene	150	1,500
120-12-7	Anthracene	150	300
206-44-0	Fluoranthene	150	2,800
129-00-0	Pyrene	150	2,000
56-55-3	Benzo(a)anthracene	150	900
117-81-7	bis(2-Ethylhexyl)phthalate	150	13,000 E
218-01-9	Chrysene	150	1,600
205-99-2	Benzo(b)fluoranthene	150	1,500
207-08-9	Benzo(k)fluoranthene	150	1,500
50-32-8	Benzo(a)pyrene	150	960
193-39-5	Indeno(1,2,3-cd)pyrene	150	380
53-70-3	Dibenz(a,h)anthracene	150	93 J
191-24-2	Benzo(g,h,i)perylene	150	410

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	54.7%
d5-Phenol	58.4%	2-Fluorophenol	47.6%
2,4,6-Tribromophenol	58.3%	d4-2-Chlorophenol	57.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC01-S
DILUTION

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 09:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 20.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 72.2%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	500	< 500 U
91-57-6	2-Methylnaphthalene	500	< 500 U
208-96-8	Acenaphthylene	500	< 500 U
83-32-9	Acenaphthene	500	< 500 U
132-64-9	Dibenzofuran	500	< 500 U
86-73-7	Fluorene	500	< 500 U
85-01-8	Phenanthrene	500	1,600
120-12-7	Anthracene	500	320 J
206-44-0	Fluoranthene	500	3,200
129-00-0	Pyrene	500	2,000
56-55-3	Benzo(a)anthracene	500	1,000
117-81-7	bis(2-Ethylhexyl)phthalate	500	14,000
218-01-9	Chrysene	500	1,800
205-99-2	Benzo(b)fluoranthene	500	1,500
207-08-9	Benzo(k)fluoranthene	500	1,300
50-32-8	Benzo(a)pyrene	500	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	500	680
53-70-3	Dibenz(a,h)anthracene	500	< 500 U
191-24-2	Benzo(g,h,i)perylene	500	750

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	63.2%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	63.5%	2-Fluorophenol	56.0%
2,4,6-Tribromophenol	60.8%	d4-2-Chlorophenol	64.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC13-S
SAMPLE

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 19:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 23.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 58.8%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	130
91-57-6	2-Methylnaphthalene	120	64 J
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	130
132-64-9	Dibenzofuran	120	120 J
86-73-7	Fluorene	120	180
85-01-8	Phenanthrene	120	2,800
120-12-7	Anthracene	120	460
206-44-0	Fluoranthene	120	5,800 E
129-00-0	Pyrene	120	5,200 E
56-55-3	Benzo(a)anthracene	120	2,400
117-81-7	bis(2-Ethylhexyl)phthalate	120	7,300 E
218-01-9	Chrysene	120	3,500
205-99-2	Benzo(b)fluoranthene	120	3,400
207-08-9	Benzo(k)fluoranthene	120	4,400
50-32-8	Benzo(a)pyrene	120	2,700
193-39-5	Indeno(1,2,3-cd)pyrene	120	1,200
53-70-3	Dibenz(a,h)anthracene	120	240
191-24-2	Benzo(g,h,i)perylene	120	1,100

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.1%	2-Fluorobiphenyl	72.2%
d14-p-Terphenyl	71.3%	d4-1,2-Dichlorobenzene	66.2%
d5-Phenol	68.6%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	65.9%	d4-2-Chlorophenol	68.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC13-S
DILUTION

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 10:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 23.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 58.8%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	210	130 J
91-57-6	2-Methylnaphthalene	210	< 210 U
208-96-8	Acenaphthylene	210	< 210 U
83-32-9	Acenaphthene	210	120 J
132-64-9	Dibenzofuran	210	120 J
86-73-7	Fluorene	210	190 J
85-01-8	Phenanthrene	210	2,900
120-12-7	Anthracene	210	460
206-44-0	Fluoranthene	210	6,200
129-00-0	Pyrene	210	5,300
56-55-3	Benzo(a)anthracene	210	2,500
117-81-7	bis(2-Ethylhexyl)phthalate	210	7,300
218-01-9	Chrysene	210	3,500
205-99-2	Benzo(b)fluoranthene	210	3,700
207-08-9	Benzo(k)fluoranthene	210	3,200
50-32-8	Benzo(a)pyrene	210	2,700
193-39-5	Indeno(1,2,3-cd)pyrene	210	1,400
53-70-3	Dibenz(a,h)anthracene	210	330
191-24-2	Benzo(g,h,i)perylene	210	1,400

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.2%	2-Fluorobiphenyl	71.0%
d14-p-Terphenyl	72.0%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	69.9%	2-Fluorophenol	62.8%
2,4,6-Tribromophenol	73.2%	d4-2-Chlorophenol	68.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC14-S
SAMPLE

Lab Sample ID: KZ56D
LIMS ID: 07-9550
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 20:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 24.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 46.8%
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	74 J
91-57-6	2-Methylnaphthalene	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	86 J
132-64-9	Dibenzofuran	120	72 J
86-73-7	Fluorene	120	110 J
85-01-8	Phenanthrene	120	1,600
120-12-7	Anthracene	120	270
206-44-0	Fluoranthene	120	3,400
129-00-0	Pyrene	120	2,600
56-55-3	Benzo(a)anthracene	120	1,200
117-81-7	bis(2-Ethylhexyl)phthalate	120	4,200
218-01-9	Chrysene	120	1,800
205-99-2	Benzo(b)fluoranthene	120	2,000
207-08-9	Benzo(k)fluoranthene	120	2,100
50-32-8	Benzo(a)pyrene	120	1,400
193-39-5	Indeno(1,2,3-cd)pyrene	120	560
53-70-3	Dibenz(a,h)anthracene	120	130
191-24-2	Benzo(g,h,i)perylene	120	540

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.7%	2-Fluorobiphenyl	66.5%
d14-p-Terphenyl	65.6%	d4-1,2-Dichlorobenzene	60.8%
d5-Phenol	61.7%	2-Fluorophenol	54.5%
2,4,6-Tribromophenol	64.1%	d4-2-Chlorophenol	61.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC10-S
SAMPLE

Lab Sample ID: KZ56E
LIMS ID: 07-9551
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 20:59
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 44.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 25.3%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	44 J
91-57-6	2-Methylnaphthalene	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
132-64-9	Dibenzofuran	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	310
120-12-7	Anthracene	67	60 J
206-44-0	Fluoranthene	67	720
129-00-0	Pyrene	67	660
56-55-3	Benzo(a)anthracene	67	280
117-81-7	bis(2-Ethylhexyl)phthalate	67	1,600
218-01-9	Chrysene	67	450
205-99-2	Benzo(b)fluoranthene	67	550
207-08-9	Benzo(k)fluoranthene	67	460
50-32-8	Benzo(a)pyrene	67	340
193-39-5	Indeno(1,2,3-cd)pyrene	67	160
53-70-3	Dibenz(a,h)anthracene	67	35 J
191-24-2	Benzo(g,h,i)perylene	67	170

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.6%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	63.6%	d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	60.6%	2-Fluorophenol	52.4%
2,4,6-Tribromophenol	61.5%	d4-2-Chlorophenol	61.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC05-S
SAMPLE

Lab Sample ID: KZ56F
LIMS ID: 07-9552
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 10:59
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 33.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 53.0%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	150	110 J
91-57-6	2-Methylnaphthalene	150	< 150 U
208-96-8	Acenaphthylene	150	< 150 U
83-32-9	Acenaphthene	150	< 150 U
132-64-9	Dibenzofuran	150	< 150 U
86-73-7	Fluorene	150	< 150 U
85-01-8	Phenanthrene	150	680
120-12-7	Anthracene	150	140 J
206-44-0	Fluoranthene	150	1,800
129-00-0	Pyrene	150	1,500
56-55-3	Benzo(a)anthracene	150	640
117-81-7	bis(2-Ethylhexyl)phthalate	150	4,000
218-01-9	Chrysene	150	960
205-99-2	Benzo(b)fluoranthene	150	1,100
207-08-9	Benzo(k)fluoranthene	150	870
50-32-8	Benzo(a)pyrene	150	740
193-39-5	Indeno(1,2,3-cd)pyrene	150	400
53-70-3	Dibenz(a,h)anthracene	150	83 J
191-24-2	Benzo(g,h,i)perylene	150	390

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.8%	2-Fluorobiphenyl	46.8%
d14-p-Terphenyl	45.6%	d4-1,2-Dichlorobenzene	40.4%
d5-Phenol	44.1%	2-Fluorophenol	38.7%
2,4,6-Tribromophenol	47.9%	d4-2-Chlorophenol	42.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC07-S
SAMPLE

Lab Sample ID: KZ56G
LIMS ID: 07-9553
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 11:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 31.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 42.9%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	96	130
91-57-6	2-Methylnaphthalene	96	52 J
208-96-8	Acenaphthylene	96	< 96 U
83-32-9	Acenaphthene	96	61 J
132-64-9	Dibenzofuran	96	< 96 U
86-73-7	Fluorene	96	52 J
85-01-8	Phenanthrene	96	690
120-12-7	Anthracene	96	150
206-44-0	Fluoranthene	96	1,600
129-00-0	Pyrene	96	1,500
56-55-3	Benzo(a)anthracene	96	640
117-81-7	bis(2-Ethylhexyl)phthalate	96	3,700
218-01-9	Chrysene	96	960
205-99-2	Benzo(b)fluoranthene	96	980
207-08-9	Benzo(k)fluoranthene	96	990
50-32-8	Benzo(a)pyrene	96	770
193-39-5	Indeno(1,2,3-cd)pyrene	96	380
53-70-3	Dibenz(a,h)anthracene	96	77 J
191-24-2	Benzo(g,h,i)perylene	96	400

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.8%	2-Fluorobiphenyl	64.6%
d14-p-Terphenyl	61.7%	d4-1,2-Dichlorobenzene	57.8%
d5-Phenol	62.2%	2-Fluorophenol	52.7%
2,4,6-Tribromophenol	66.2%	d4-2-Chlorophenol	60.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC08-S
SAMPLE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 17:10
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.8%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	200
91-57-6	2-Methylnaphthalene	120	76 J
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	87 J
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	74 J
85-01-8	Phenanthrene	120	890
120-12-7	Anthracene	120	200
206-44-0	Fluoranthene	120	1,900
129-00-0	Pyrene	120	1,900
56-55-3	Benzo(a)anthracene	120	800
117-81-7	bis(2-Ethylhexyl)phthalate	120	4,300
218-01-9	Chrysene	120	1,200
205-99-2	Benzo(b)fluoranthene	120	1,400
207-08-9	Benzo(k)fluoranthene	120	1,100
50-32-8	Benzo(a)pyrene	120	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	120	600
53-70-3	Dibenz(a,h)anthracene	120	270
191-24-2	Benzo(g,h,i)perylene	120	650

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.0%	2-Fluorobiphenyl	67.8%
d14-p-Terphenyl	62.3%	d4-1,2-Dichlorobenzene	58.6%
d5-Phenol	62.2%	2-Fluorophenol	53.4%
2,4,6-Tribromophenol	58.9%	d4-2-Chlorophenol	59.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC15-S
SAMPLE

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 12:05
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.0%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	110	220
91-57-6	2-Methylnaphthalene	110	93 J
208-96-8	Acenaphthylene	110	< 110 U
83-32-9	Acenaphthene	110	100 J
132-64-9	Dibenzofuran	110	< 110 U
86-73-7	Fluorene	110	90 J
85-01-8	Phenanthrene	110	1,000
120-12-7	Anthracene	110	240
206-44-0	Fluoranthene	110	2,400
129-00-0	Pyrene	110	2,300
56-55-3	Benzo(a)anthracene	110	920
117-81-7	bis(2-Ethylhexyl)phthalate	110	5,200 E
218-01-9	Chrysene	110	1,400
205-99-2	Benzo(b)fluoranthene	110	1,700
207-08-9	Benzo(k)fluoranthene	110	1,400
50-32-8	Benzo(a)pyrene	110	1,100
193-39-5	Indeno(1,2,3-cd)pyrene	110	420
53-70-3	Dibenz(a,h)anthracene	110	93 J
191-24-2	Benzo(g,h,i)perylene	110	440

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.6%	2-Fluorobiphenyl	72.0%
d14-p-Terphenyl	74.8%	d4-1,2-Dichlorobenzene	69.6%
d5-Phenol	74.6%	2-Fluorophenol	62.2%
2,4,6-Tribromophenol	81.6%	d4-2-Chlorophenol	73.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC15-S
DILUTION

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 16:00
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 47.0%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**180**	**220**
91-57-6	2-Methylnaphthalene	180	< 180 U
208-96-8	Acenaphthylene	180	< 180 U
83-32-9	**Acenaphthene**	**180**	**100 J**
132-64-9	Dibenzofuran	180	< 180 U
86-73-7	Fluorene	180	< 180 U
85-01-8	**Phenanthrene**	**180**	**1,000**
120-12-7	**Anthracene**	**180**	**250**
206-44-0	**Fluoranthene**	**180**	**2,500**
129-00-0	**Pyrene**	**180**	**2,300**
56-55-3	**Benzo(a)anthracene**	**180**	**920**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180**	**5,100**
218-01-9	**Chrysene**	**180**	**1,300**
205-99-2	**Benzo(b)fluoranthene**	**180**	**2,000**
207-08-9	**Benzo(k)fluoranthene**	**180**	**1,200**
50-32-8	**Benzo(a)pyrene**	**180**	**1,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**180**	**490**
53-70-3	**Dibenz(a,h)anthracene**	**180**	**120 J**
191-24-2	**Benzo(g,h,i)perylene**	**180**	**510**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	72.4%
d14-p-Terphenyl	71.4%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	71.3%	2-Fluorophenol	63.2%
2,4,6-Tribromophenol	77.6%	d4-2-Chlorophenol	72.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC09-S
SAMPLE

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 12:39
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 22.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 51.6%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	130	150
91-57-6	2-Methylnaphthalene	130	< 130 U
208-96-8	Acenaphthylene	130	< 130 U
83-32-9	Acenaphthene	130	< 130 U
132-64-9	Dibenzofuran	130	< 130 U
86-73-7	Fluorene	130	< 130 U
85-01-8	Phenanthrene	130	860
120-12-7	Anthracene	130	190
206-44-0	Fluoranthene	130	2,300
129-00-0	Pyrene	130	1,900
56-55-3	Benzo(a)anthracene	130	800
117-81-7	bis(2-Ethylhexyl)phthalate	130	6,100 E
218-01-9	Chrysene	130	1,300
205-99-2	Benzo(b)fluoranthene	130	1,200
207-08-9	Benzo(k)fluoranthene	130	1,600
50-32-8	Benzo(a)pyrene	130	950
193-39-5	Indeno(1,2,3-cd)pyrene	130	410
53-70-3	Dibenz(a,h)anthracene	130	100 J
191-24-2	Benzo(g,h,i)perylene	130	410

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.2%	2-Fluorobiphenyl	59.0%
d14-p-Terphenyl	60.6%	d4-1,2-Dichlorobenzene	58.0%
d5-Phenol	58.6%	2-Fluorophenol	53.0%
2,4,6-Tribromophenol	61.2%	d4-2-Chlorophenol	58.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC09-S
DILUTION

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 16:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 22.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 51.6%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**220**	**150 J**
91-57-6	2-Methylnaphthalene	220	< 220 U
208-96-8	Acenaphthylene	220	< 220 U
83-32-9	Acenaphthene	220	< 220 U
132-64-9	Dibenzofuran	220	< 220 U
86-73-7	Fluorene	220	< 220 U
85-01-8	**Phenanthrene**	**220**	**860**
120-12-7	**Anthracene**	**220**	**180 J**
206-44-0	**Fluoranthene**	**220**	**2,300**
129-00-0	**Pyrene**	**220**	**2,000**
56-55-3	**Benzo(a)anthracene**	**220**	**790**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**220**	**6,200**
218-01-9	**Chrysene**	**220**	**1,300**
205-99-2	**Benzo(b)fluoranthene**	**220**	**1,400**
207-08-9	**Benzo(k)fluoranthene**	**220**	**1,500**
50-32-8	**Benzo(a)pyrene**	**220**	**950**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**220**	**410**
53-70-3	Dibenz(a,h)anthracene	220	< 220 U
191-24-2	**Benzo(g,h,i)perylene**	**220**	**430**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.2%	2-Fluorobiphenyl	60.0%
d14-p-Terphenyl	60.2%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	59.1%	2-Fluorophenol	54.3%
2,4,6-Tribromophenol	62.9%	d4-2-Chlorophenol	58.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC02-S
SAMPLE

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 13:12
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 17.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 60.5%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	170	150 J
91-57-6	2-Methylnaphthalene	170	< 170 U
208-96-8	Acenaphthylene	170	< 170 U
83-32-9	Acenaphthene	170	110 J
132-64-9	Dibenzofuran	170	110 J
86-73-7	Fluorene	170	160 J
85-01-8	Phenanthrene	170	2,500
120-12-7	Anthracene	170	430
206-44-0	Fluoranthene	170	5,000
129-00-0	Pyrene	170	4,700
56-55-3	Benzo(a)anthracene	170	2,000
117-81-7	bis(2-Ethylhexyl)phthalate	170	9,500 E
218-01-9	Chrysene	170	3,100
205-99-2	Benzo(b)fluoranthene	170	3,300
207-08-9	Benzo(k)fluoranthene	170	3,600
50-32-8	Benzo(a)pyrene	170	2,300
193-39-5	Indeno(1,2,3-cd)pyrene	170	870
53-70-3	Dibenz(a,h)anthracene	170	390
191-24-2	Benzo(g,h,i)perylene	170	900

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.6%	2-Fluorobiphenyl	63.7%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	61.1%
d5-Phenol	64.2%	2-Fluorophenol	51.1%
2,4,6-Tribromophenol	68.7%	d4-2-Chlorophenol	64.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC02-S
DILUTION

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 17:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 17.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 60.5%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	290	150 J
91-57-6	2-Methylnaphthalene	290	< 290 U
208-96-8	Acenaphthylene	290	< 290 U
83-32-9	Acenaphthene	290	< 290 U
132-64-9	Dibenzofuran	290	< 290 U
86-73-7	Fluorene	290	180 J
85-01-8	Phenanthrene	290	2,600
120-12-7	Anthracene	290	430
206-44-0	Fluoranthene	290	6,100
129-00-0	Pyrene	290	4,800
56-55-3	Benzo(a)anthracene	290	2,000
117-81-7	bis(2-Ethylhexyl)phthalate	290	9,500
218-01-9	Chrysene	290	3,100
205-99-2	Benzo(b)fluoranthene	290	3,800
207-08-9	Benzo(k)fluoranthene	290	3,200
50-32-8	Benzo(a)pyrene	290	2,300
193-39-5	Indeno(1,2,3-cd)pyrene	290	860
53-70-3	Dibenz(a,h)anthracene	290	230 J
191-24-2	Benzo(g,h,i)perylene	290	910

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.2%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	68.8%	d4-1,2-Dichlorobenzene	62.6%
d5-Phenol	64.8%	2-Fluorophenol	55.9%
2,4,6-Tribromophenol	70.5%	d4-2-Chlorophenol	64.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC12-S
SAMPLE

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 13:46
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 41.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 35.3%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	72	130
91-57-6	2-Methylnaphthalene	72	54 J
208-96-8	Acenaphthylene	72	< 72 U
83-32-9	Acenaphthene	72	76
132-64-9	Dibenzofuran	72	< 72 U
86-73-7	Fluorene	72	48 J
85-01-8	Phenanthrene	72	500
120-12-7	Anthracene	72	150
206-44-0	Fluoranthene	72	1,100
129-00-0	Pyrene	72	980
56-55-3	Benzo(a)anthracene	72	420
117-81-7	bis(2-Ethylhexyl)phthalate	72	2,200
218-01-9	Chrysene	72	620
205-99-2	Benzo(b)fluoranthene	72	820
207-08-9	Benzo(k)fluoranthene	72	560
50-32-8	Benzo(a)pyrene	72	510
193-39-5	Indeno(1,2,3-cd)pyrene	72	190
53-70-3	Dibenz(a,h)anthracene	72	48 J
191-24-2	Benzo(g,h,i)perylene	72	190

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.1%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	63.5%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	63.4%	2-Fluorophenol	50.0%
2,4,6-Tribromophenol	68.6%	d4-2-Chlorophenol	62.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC06-S
SAMPLE

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 14:20
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 48.1%
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	160
91-57-6	2-Methylnaphthalene	120	60 J
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	59 J
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	62 J
85-01-8	Phenanthrene	120	910
120-12-7	Anthracene	120	180
206-44-0	Fluoranthene	120	2,400
129-00-0	Pyrene	120	2,100
56-55-3	Benzo(a)anthracene	120	860
117-81-7	bis(2-Ethylhexyl)phthalate	120	5,300 E
218-01-9	Chrysene	120	1,300
205-99-2	Benzo(b)fluoranthene	120	1,400
207-08-9	Benzo(k)fluoranthene	120	1,700
50-32-8	Benzo(a)pyrene	120	990
193-39-5	Indeno(1,2,3-cd)pyrene	120	440
53-70-3	Dibenz(a,h)anthracene	120	84 J
191-24-2	Benzo(g,h,i)perylene	120	460

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.4%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	59.5%	d4-1,2-Dichlorobenzene	58.3%
d5-Phenol	59.4%	2-Fluorophenol	53.4%
2,4,6-Tribromophenol	60.1%	d4-2-Chlorophenol	59.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC06-S
DILUTION

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 17:38
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 48.1%
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	190	160 J
91-57-6	2-Methylnaphthalene	190	< 190 U
208-96-8	Acenaphthylene	190	< 190 U
83-32-9	Acenaphthene	190	< 190 U
132-64-9	Dibenzofuran	190	< 190 U
86-73-7	Fluorene	190	< 190 U
85-01-8	Phenanthrene	190	950
120-12-7	Anthracene	190	200
206-44-0	Fluoranthene	190	2,700
129-00-0	Pyrene	190	2,300
56-55-3	Benzo(a)anthracene	190	860
117-81-7	bis(2-Ethylhexyl)phthalate	190	5,600
218-01-9	Chrysene	190	1,400
205-99-2	Benzo(b)fluoranthene	190	1,800
207-08-9	Benzo(k)fluoranthene	190	1,600
50-32-8	Benzo(a)pyrene	190	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	190	390
53-70-3	Dibenz(a,h)anthracene	190	< 190 U
191-24-2	Benzo(g,h,i)perylene	190	400

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.0%	2-Fluorobiphenyl	59.6%
d14-p-Terphenyl	65.4%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	60.4%	2-Fluorophenol	55.6%
2,4,6-Tribromophenol	70.8%	d4-2-Chlorophenol	60.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC04-S
SAMPLE

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 14:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 52.8%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	36	44
91-57-6	2-Methylnaphthalene	36	< 36 U
208-96-8	Acenaphthylene	36	< 36 U
83-32-9	Acenaphthene	36	19 J
132-64-9	Dibenzofuran	36	< 36 U
86-73-7	Fluorene	36	19 J
85-01-8	Phenanthrene	36	260
120-12-7	Anthracene	36	58
206-44-0	Fluoranthene	36	720
129-00-0	Pyrene	36	610
56-55-3	Benzo(a)anthracene	36	240
117-81-7	bis(2-Ethylhexyl)phthalate	36	1,400 E
218-01-9	Chrysene	36	370
205-99-2	Benzo(b)fluoranthene	36	380
207-08-9	Benzo(k)fluoranthene	36	520
50-32-8	Benzo(a)pyrene	36	290
193-39-5	Indeno(1,2,3-cd)pyrene	36	100
53-70-3	Dibenz(a,h)anthracene	36	28 J
191-24-2	Benzo(g,h,i)perylene	36	98

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	16.4%	2-Fluorobiphenyl	15.6%
d14-p-Terphenyl	16.9%	d4-1,2-Dichlorobenzene	15.1%
d5-Phenol	15.7%	2-Fluorophenol	14.0%
2,4,6-Tribromophenol	17.2%	d4-2-Chlorophenol	15.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: Y3-RC04-S
REEXTRACT

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 16:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 52.8%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	110	130
91-57-6	2-Methylnaphthalene	110	< 110 U
208-96-8	Acenaphthylene	110	< 110 U
83-32-9	Acenaphthene	110	61 J
132-64-9	Dibenzofuran	110	< 110 U
86-73-7	Fluorene	110	63 J
85-01-8	Phenanthrene	110	930
120-12-7	Anthracene	110	190
206-44-0	Fluoranthene	110	2,300
129-00-0	Pyrene	110	2,000
56-55-3	Benzo(a)anthracene	110	840
117-81-7	bis(2-Ethylhexyl)phthalate	110	4,700 E
218-01-9	Chrysene	110	1,300
205-99-2	Benzo(b)fluoranthene	110	1,300
207-08-9	Benzo(k)fluoranthene	110	1,500
50-32-8	Benzo(a)pyrene	110	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	110	410
53-70-3	Dibenz(a,h)anthracene	110	82 J
191-24-2	Benzo(g,h,i)perylene	110	420

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.7%	2-Fluorobiphenyl	59.9%
d14-p-Terphenyl	55.3%	d4-1,2-Dichlorobenzene	57.0%
d5-Phenol	58.5%	2-Fluorophenol	52.5%
2,4,6-Tribromophenol	66.4%	d4-2-Chlorophenol	58.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: Y3-RC04-S
REEXTRACT DL

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 18:05
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 52.8%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	360	< 360 U
91-57-6	2-Methylnaphthalene	360	< 360 U
208-96-8	Acenaphthylene	360	< 360 U
83-32-9	Acenaphthene	360	< 360 U
132-64-9	Dibenzofuran	360	< 360 U
86-73-7	Fluorene	360	< 360 U
85-01-8	Phenanthrene	360	980
120-12-7	Anthracene	360	190 J
206-44-0	Fluoranthene	360	2,600
129-00-0	Pyrene	360	2,100
56-55-3	Benzo(a)anthracene	360	870
117-81-7	bis(2-Ethylhexyl)phthalate	360	5,100
218-01-9	Chrysene	360	1,300
205-99-2	Benzo(b)fluoranthene	360	1,400
207-08-9	Benzo(k)fluoranthene	360	1,400
50-32-8	Benzo(a)pyrene	360	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	360	480
53-70-3	Dibenz(a,h)anthracene	360	< 360 U
191-24-2	Benzo(g,h,i)perylene	360	480

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	61.6%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	60.8%	2-Fluorophenol	55.5%
2,4,6-Tribromophenol	70.4%	d4-2-Chlorophenol	60.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC03-S
SAMPLE

Lab Sample ID: KZ56P
LIMS ID: 07-9562
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 15:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 39.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 39.6%
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	76	100
91-57-6	2-Methylnaphthalene	76	39 J
208-96-8	Acenaphthylene	76	< 76 U
83-32-9	Acenaphthene	76	40 J
132-64-9	Dibenzofuran	76	< 76 U
86-73-7	Fluorene	76	< 76 U
85-01-8	Phenanthrene	76	570
120-12-7	Anthracene	76	120
206-44-0	Fluoranthene	76	1,400
129-00-0	Pyrene	76	1,300
56-55-3	Benzo(a)anthracene	76	540
117-81-7	bis(2-Ethylhexyl)phthalate	76	2,600
218-01-9	Chrysene	76	790
205-99-2	Benzo(b)fluoranthene	76	920
207-08-9	Benzo(k)fluoranthene	76	960
50-32-8	Benzo(a)pyrene	76	620
193-39-5	Indeno(1,2,3-cd)pyrene	76	260
53-70-3	Dibenz(a,h)anthracene	76	61 J
191-24-2	Benzo(g,h,i)perylene	76	270

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.7%	2-Fluorobiphenyl	76.4%
d14-p-Terphenyl	72.4%	d4-1,2-Dichlorobenzene	71.4%
d5-Phenol	73.0%	2-Fluorophenol	66.0%
2,4,6-Tribromophenol	74.9%	d4-2-Chlorophenol	74.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
Y3-RC11-S	70.4%	71.8%	65.2%	61.3%	63.5%	50.1%	66.3%	62.0%	0
Y3-RC11-S DL	76.8%	76.0%	76.0%	66.8%	74.1%	60.3%	71.5%	68.5%	0
Y3-RC01-S	60.8%	61.2%	60.0%	54.7%	58.4%	47.6%	58.3%	57.6%	0
Y3-RC01-S DL	65.6%	63.2%	66.0%	59.2%	63.5%	56.0%	60.8%	64.5%	0
Y3-RC13-S	72.1%	72.2%	71.3%	66.2%	68.6%	60.8%	65.9%	68.5%	0
Y3-RC13-S DL	72.2%	71.0%	72.0%	62.8%	69.9%	62.8%	73.2%	68.0%	0
Y3-RC14-S	67.7%	66.5%	65.6%	60.8%	61.7%	54.5%	64.1%	61.8%	0
Y3-RC10-S	64.6%	65.6%	63.6%	60.0%	60.6%	52.4%	61.5%	61.0%	0
Y3-RC05-S	46.8%	46.8%	45.6%	40.4%	44.1%	38.7%	47.9%	42.3%	0
Y3-RC07-S	65.8%	64.6%	61.7%	57.8%	62.2%	52.7%	66.2%	60.9%	0
MB-052207	69.2%	62.8%	72.8%	63.2%	63.5%	47.2%	59.7%	63.2%	0
LCS-052207	78.4%	76.8%	84.4%	67.6%	70.9%	53.9%	80.8%	68.8%	0
LCSD-052207	64.8%	63.6%	72.4%	56.4%	60.3%	45.6%	65.9%	58.1%	0
Y3-RC08-S	68.0%	67.8%	62.3%	58.6%	62.2%	53.4%	58.9%	59.9%	0
Y3-RC08-S MS	70.8%	69.6%	67.7%	62.3%	66.0%	53.4%	68.7%	63.8%	0
Y3-RC08-S MSD	82.7%	81.4%	75.7%	74.9%	75.6%	60.8%	79.0%	76.4%	0
Y3-RC15-S	76.6%	72.0%	74.8%	69.6%	74.6%	62.2%	81.6%	73.2%	0
Y3-RC15-S DL	78.0%	72.4%	71.4%	69.2%	71.3%	63.2%	77.6%	72.3%	0
Y3-RC09-S	62.2%	59.0%	60.6%	58.0%	58.6%	53.0%	61.2%	58.3%	0
Y3-RC09-S DL	60.2%	60.0%	60.2%	58.4%	59.1%	54.3%	62.9%	58.9%	0
Y3-RC02-S	67.6%	63.7%	68.0%	61.1%	64.2%	51.1%	68.7%	64.2%	0
Y3-RC02-S DL	67.2%	66.0%	68.8%	62.6%	64.8%	55.9%	70.5%	64.3%	0
Y3-RC12-S	67.1%	65.6%	63.5%	59.2%	63.4%	50.0%	68.6%	62.0%	0
Y3-RC06-S	61.4%	59.2%	59.5%	58.3%	59.4%	53.4%	60.1%	59.1%	0
Y3-RC06-S DL	63.0%	59.6%	65.4%	58.8%	60.4%	55.6%	70.8%	60.0%	0
MB-060107	72.0%	65.6%	72.4%	65.2%	68.3%	61.1%	74.7%	68.3%	0
LCS-060107	73.2%	67.6%	72.4%	64.8%	66.4%	57.6%	75.7%	64.8%	0
Y3-RC04-S	16.4%*	15.6%*	16.9%*	15.1%*	15.7%*	14.0%	17.2%*	15.4%*	7
Y3-RC04-S RE	60.7%	59.9%	55.3%	57.0%	58.5%	52.5%	66.4%	58.7%	0
Y3-RC04-S REDL	63.6%	61.6%	60.0%	57.6%	60.8%	55.5%	70.4%	60.5%	0
Y3-RC03-S	78.7%	76.4%	72.4%	71.4%	73.0%	66.0%	74.9%	74.2%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(42-79)	(26-88)
(FBP) = 2-Fluorobiphenyl	(43-80)	(34-91)
(TPH) = d14-p-Terphenyl	(39-105)	(22-100)
(DCB) = d4-1,2-Dichlorobenzene	(38-79)	(24-90)
(PHL) = d5-Phenol	(42-82)	(25-86)
(2FP) = 2-Fluorophenol	(26-83)	(11-84)
(TBP) = 2,4,6-Tribromophenol	(41-94)	(25-107)
(2CP) = d4-2-Chlorophenol	(43-80)	(23-91)

Prep Method: SW3550B
Log Number Range: 07-9547 to 07-9562

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC08-S
MS/MSD

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted MS/MSD: 05/22/07

Date Analyzed MS: 05/26/07 17:43
MSD: 05/26/07 18:16
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: YES

Sample Amount MS: 26.1 g-dry-wt
MSD: 26.1 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 3.00
MSD: 3.00
Percent Moisture: 47.8 %
pH: 7.1

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Acenaphthene	87.3	669	957	60.8%	799	957	74.4%	17.7%
Pyrene	1900	2590	957	72.1%	2930	957	108%	12.3%
Benzo(g,h,i)perylene	646	913	957	27.9%	968	957	33.6%	5.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC08-S
MATRIX SPIKE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 17:43
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.8%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	120	210
91-57-6	2-Methylnaphthalene	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	---
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	< 120 U
85-01-8	**Phenanthrene**	120	960
120-12-7	**Anthracene**	120	230
206-44-0	**Fluoranthene**	120	2,200
129-00-0	Pyrene	120	---
56-55-3	**Benzo(a)anthracene**	120	900
117-81-7	**bis(2-Ethylhexyl)phthalate**	120	4,700 E
218-01-9	**Chrysene**	120	1,300
205-99-2	**Benzo(b)fluoranthene**	120	1,400
207-08-9	**Benzo(k)fluoranthene**	120	1,400
50-32-8	**Benzo(a)pyrene**	120	1,100
193-39-5	**Indeno(1,2,3-cd)pyrene**	120	550
53-70-3	**Dibenz(a,h)anthracene**	120	130
191-24-2	Benzo(g,h,i)perylene	120	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.8%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	67.7%	d4-1,2-Dichlorobenzene	62.3%
d5-Phenol	66.0%	2-Fluorophenol	53.4%
2,4,6-Tribromophenol	68.7%	d4-2-Chlorophenol	63.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC08-S
MATRIX SPIKE DUPLICATE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 18:16
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.8%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	250
91-57-6	2-Methylnaphthalene	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	---
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	< 120 U
85-01-8	Phenanthrene	120	1,100
120-12-7	Anthracene	120	260
206-44-0	Fluoranthene	120	2,500
129-00-0	Pyrene	120	---
56-55-3	Benzo(a)anthracene	120	1,000
117-81-7	bis(2-Ethylhexyl)phthalate	120	5,500 E
218-01-9	Chrysene	120	1,500
205-99-2	Benzo(b)fluoranthene	120	1,400
207-08-9	Benzo(k)fluoranthene	120	1,700
50-32-8	Benzo(a)pyrene	120	1,200
193-39-5	Indeno(1,2,3-cd)pyrene	120	610
53-70-3	Dibenz(a,h)anthracene	120	150
191-24-2	Benzo(g,h,i)perylene	120	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.7%	2-Fluorobiphenyl	81.4%
d14-p-Terphenyl	75.7%	d4-1,2-Dichlorobenzene	74.9%
d5-Phenol	75.6%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	79.0%	d4-2-Chlorophenol	76.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: LCS-052207
LCS/LCSD

Lab Sample ID: LCS-052207
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted LCS/LCSD: 05/22/07

Date Analyzed LCS: 05/26/07 13:29
LCSD: 05/26/07 14:02
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: YES

Sample Amount LCS: 50.0 g
LCSD: 50.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	337	500	67.4%	281	500	56.2%	18.1%
2-Methylnaphthalene	323	500	64.6%	275	500	55.0%	16.1%
Acenaphthylene	355	500	71.0%	303	500	60.6%	15.8%
Acenaphthene	363	500	72.6%	304	500	60.8%	17.7%
Dibenzofuran	361	500	72.2%	306	500	61.2%	16.5%
Fluorene	357	500	71.4%	305	500	61.0%	15.7%
Phenanthrene	358	500	71.6%	308	500	61.6%	15.0%
Anthracene	338	500	67.6%	292	500	58.4%	14.6%
Fluoranthene	356	500	71.2%	306	500	61.2%	15.1%
Pyrene	388	500	77.6%	339	500	67.8%	13.5%
Benzo(a)anthracene	383	500	76.6%	324	500	64.8%	16.7%
bis(2-Ethylhexyl)phthalate	413	500	82.6%	353	500	70.6%	15.7%
Chrysene	365	500	73.0%	311	500	62.2%	16.0%
Benzo(b)fluoranthene	370	500	74.0%	327	500	65.4%	12.3%
Benzo(k)fluoranthene	405	500	81.0%	342	500	68.4%	16.9%
Benzo(a)pyrene	350	500	70.0%	297	500	59.4%	16.4%
Indeno(1,2,3-cd)pyrene	360	500	72.0%	294	500	58.8%	20.2%
Dibenz(a,h)anthracene	365	500	73.0%	304	500	60.8%	18.2%
Benzo(g,h,i)perylene	345	500	69.0%	282	500	56.4%	20.1%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	78.4%	64.8%
2-Fluorobiphenyl	76.8%	63.6%
d14-p-Terphenyl	84.4%	72.4%
d4-1,2-Dichlorobenzene	67.6%	56.4%
d5-Phenol	70.9%	60.3%
2-Fluorophenol	53.9%	45.6%
2,4,6-Tribromophenol	80.8%	65.9%
d4-2-Chlorophenol	68.8%	58.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: LCS-060107
LAB CONTROL

Lab Sample ID: LCS-060107
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 10:24
Instrument/Analyst: NT6/LJR
GPC Cleanup: YES

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

Analyte	Lab Control	Spike Added	Recovery
Naphthalene	332	500	66.4%
2-Methylnaphthalene	333	500	66.6%
Acenaphthylene	333	500	66.6%
Acenaphthene	330	500	66.0%
Dibenzofuran	350	500	70.0%
Fluorene	352	500	70.4%
Phenanthrene	355	500	71.0%
Anthracene	344	500	68.8%
Fluoranthene	353	500	70.6%
Pyrene	372	500	74.4%
Benzo(a)anthracene	357	500	71.4%
bis(2-Ethylhexyl)phthalate	381	500	76.2%
Chrysene	328	500	65.6%
Benzo(b)fluoranthene	378	500	75.6%
Benzo(k)fluoranthene	388	500	77.6%
Benzo(a)pyrene	351	500	70.2%
Indeno(1,2,3-cd)pyrene	385	500	77.0%
Dibenz(a,h)anthracene	382	500	76.4%
Benzo(g,h,i)perylene	377	500	75.4%

Semivolatile Surrogate Recovery	
d5-Nitrobenzene	73.2%
2-Fluorobiphenyl	67.6%
d14-p-Terphenyl	72.4%
d4-1,2-Dichlorobenzene	64.8%
d5-Phenol	66.4%
2-Fluorophenol	57.6%
2,4,6-Tribromophenol	75.7%
d4-2-Chlorophenol	64.8%

Results reported in µg/kg

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No: KZ56

Project: THEA FOSS OMMP YEAR

Lab File ID: KZ56MB

Date Extracted: 05/22/07

Instrument ID: NT6

Date Analyzed: 05/26/07

Matrix: SOLID

Time Analyzed: 1255

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	KZ56LCSS1	KZ56LCSS1	KZ56SB	05/26/07
02	KZ56LCSDS1	KZ56LCSDS1	KZ56SBD	05/26/07
03	Y3-RC08-S	KZ56H	KZ56H	05/26/07
04	Y3-RC08-S MS	KZ56HMS	KZ56HMS	05/26/07
05	Y3-RC08-S MSD	KZ56HMSD	KZ56HMSD	05/26/07
06	Y3-RC11-S	KZ56A	KZ56A	05/26/07
07	Y3-RC01-S	KZ56B	KZ56B	05/26/07
08	Y3-RC13-S	KZ56C	KZ56C	05/26/07
09	Y3-RC14-S	KZ56D	KZ56D	05/26/07
10	Y3-RC10-S	KZ56E	KZ56E	05/26/07
11	Y3-RC11-S	KZ56A	KZ56ADL	05/29/07
12	Y3-RC01-S	KZ56B	KZ56BDL	05/29/07
13	Y3-RC13-S	KZ56C	KZ56CDL	05/29/07
14	Y3-RC05-S	KZ56F	KZ56FDL	05/29/07
15	Y3-RC07-S	KZ56G	KZ56G2	05/29/07
16	Y3-RC15-S	KZ56I	KZ56I	05/29/07
17	Y3-RC09-S	KZ56J	KZ56J	05/29/07
18	Y3-RC02-S	KZ56K	KZ56K	05/29/07
19	Y3-RC12-S	KZ56L	KZ56L	05/29/07
20	Y3-RC06-S	KZ56M	KZ56M	05/29/07
21	Y3-RC04-S	KZ56N	KZ56N	05/29/07
22	Y3-RC03-S	KZ56P	KZ56P	05/29/07
23	Y3-RC15-S	KZ56I	KZ56IDL	05/29/07
24	Y3-RC09-S	KZ56J	KZ56JDL	05/29/07
25	Y3-RC02-S	KZ56K	KZ56KDL	05/29/07
26	Y3-RC06-S	KZ56M	KZ56MDL	05/29/07
27				
28				
29				
30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: MB-052207
METHOD BLANK

Lab Sample ID: MB-052207
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 12:55
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	62.8%
d14-p-Terphenyl	72.8%	d4-1,2-Dichlorobenzene	63.2%
d5-Phenol	63.5%	2-Fluorophenol	47.2%
2,4,6-Tribromophenol	59.7%	d4-2-Chlorophenol	63.2%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS2

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No: KZ56

Project: THEA FOSS OMMP YEAR

Lab File ID: LB02MB

Date Extracted: 06/01/07

Instrument ID: NT6

Date Analyzed: 06/06/07

Matrix: SOLID

Time Analyzed: 0951

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	KZ56LCSS2	KZ56LCSS2	LB02SB	06/06/07
02	Y3-RC04-S	KZ56NRE	KZ56NRE	06/06/07
03	Y3-RC04-S	KZ56NRE	KZ56NRDL	06/06/07
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: MB-060107
METHOD BLANK

Lab Sample ID: MB-060107
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 09:51
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.0%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	72.4%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	68.3%	2-Fluorophenol	61.1%
2,4,6-Tribromophenol	74.7%	d4-2-Chlorophenol	68.3%

FORM I

PCBS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: Y3-RB-01
SAMPLE

Lab Sample ID: KZ560
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/23/07
Date Analyzed: 05/29/07 15:50
Instrument/Analyst: ECD5/LJR
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.5%
Tetrachlorometaxylene	65.8%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-052307	57.2%	48-103	78.2%	55-111	0
LCS-052307	74.2%	48-103	82.0%	55-111	0
LCSD-052307	80.8%	48-103	86.5%	55-111	0
Y3-RB-01	65.5%	33-126	65.8%	55-106	0

Prep Method: SW3510C
Log Number Range: 07-9561 to 07-9561

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-052307
LCS/LCSD

Lab Sample ID: LCS-052307
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/23/07

Date Analyzed LCS: 05/29/07 15:16
LCSD: 05/29/07 15:33
Instrument/Analyst LCS: ECD5/LJR
LCSD: ECD5/LJR
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	3.72	5.00	74.4%	3.98	5.00	79.6%	6.8%
Aroclor 1260	4.32	5.00	86.4%	4.59	5.00	91.8%	6.1%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	74.2%	80.8%
Tetrachlorometaxylene	82.0%	86.5%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

4

PCB METHOD BLANK SUMMARY

BLANK NO.

KZ56MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No.: KZ56

Project: THEA FOSS OMMP YEAR

Lab Sample ID: KZ56MBW1

Lab File ID: 0529B013

Date Extracted: 05/23/07

Matrix: LIQUID

Date Analyzed: 05/29/07

Instrument ID: ECD5

Time Analyzed: 1458

GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	KZ56LCSW1	KZ56LCSW1	05/29/07
02	KZ56LCSDW1	KZ56LCSDW1	05/29/07
03	Y3-RB-01	KZ56O	05/29/07

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-052307
METHOD BLANK

Lab Sample ID: MB-052307
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/23/07
Date Analyzed: 05/29/07 14:58
Instrument/Analyst: ECD5/LJR
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	57.2%
Tetrachlorometaxylene	78.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC11-S
SAMPLE

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:00
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 46.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	25	< 25 Y
11097-69-1	Aroclor 1254	9.9	57
11096-82-5	Aroclor 1260	9.9	65
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	134%
Tetrachlorometaxylene	113%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC11-S
DILUTION

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 15:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 46.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**60**
11096-82-5	**Aroclor 1260**	**30**	**78**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	130%
Tetrachlorometaxylene	91.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC01-S
SAMPLE

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:17
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 72.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	50	< 50 Y
11097-69-1	**Aroclor 1254**	**9.9**	**120 E**
11096-82-5	**Aroclor 1260**	**9.9**	**62**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	144%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC01-S
DILUTION

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 16:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 72.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	30	**100**
11096-82-5	**Aroclor 1260**	30	**72**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.0%
Tetrachlorometaxylene	114%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC13-S
SAMPLE

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 58.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	30	< 30 Y
11097-69-1	**Aroclor 1254**	**9.8**	**87**
11096-82-5	**Aroclor 1260**	**9.8**	**82**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.2%
Tetrachlorometaxylene	126%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC13-S
DILUTION

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 16:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 58.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**82**
11096-82-5	**Aroclor 1260**	**30**	**110**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	116%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC14-S
SAMPLE

Lab Sample ID: KZ56D
LIMS ID: 07-9550
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:52
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 46.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	20	< 20 Y
11097-69-1	**Aroclor 1254**	10	**66**
11096-82-5	**Aroclor 1260**	**10**	**44**
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.2%
Tetrachlorometaxylene	118%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC14-S
DILUTION

Lab Sample ID: KZ56D
LIMS ID: 07-9550
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 16:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 6.9
Percent Moisture: 46.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	30	**60**
11096-82-5	**Aroclor 1260**	**30**	**62**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	115%
Tetrachlorometaxylene	109%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC10-S
SAMPLE

Lab Sample ID: KZ56E
LIMS ID: 07-9551
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 18:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 25.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	9.8	< 9.8 U
11097-69-1	**Aroclor 1254**	**9.8**	**20**
11096-82-5	**Aroclor 1260**	**9.8**	**20**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	107%
Tetrachlorometaxylene	91.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC10-S
DILUTION

Lab Sample ID: KZ56E
LIMS ID: 07-9551
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 25.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	Aroclor 1254	29	< 29 U
11096-82-5	Aroclor 1260	29	< 29 U
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	138%
Tetrachlorometaxylene	87.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC05-S
SAMPLE

Lab Sample ID: KZ56F
LIMS ID: 07-9552
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 18:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 53.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.7	< 9.7 U
53469-21-9	Aroclor 1242	9.7	< 9.7 U
12672-29-6	Aroclor 1248	39	< 39 Y
11097-69-1	Aroclor 1254	9.7	63
11096-82-5	Aroclor 1260	9.7	66
11104-28-2	Aroclor 1221	9.7	< 9.7 U
11141-16-5	Aroclor 1232	9.7	< 9.7 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	99.5%
Tetrachlorometaxylene	95.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC05-S
DILUTION

Lab Sample ID: KZ56F
LIMS ID: 07-9552
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 53.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**61**
11096-82-5	**Aroclor 1260**	**29**	**82**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	135%
Tetrachlorometaxylene	80.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC07-S
SAMPLE

Lab Sample ID: KZ56G
LIMS ID: 07-9553
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 18:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 42.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	25	< 25 Y
11097-69-1	**Aroclor 1254**	**9.9**	**49**
11096-82-5	**Aroclor 1260**	**9.9**	**50**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	88.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC07-S
DILUTION

Lab Sample ID: KZ56G
LIMS ID: 07-9553
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:41
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 42.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**52**
11096-82-5	**Aroclor 1260**	**30**	**53**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	87.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC08-S
SAMPLE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 19:01
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	35	< 35 Y
11097-69-1	**Aroclor 1254**	**9.9**	**66**
11096-82-5	**Aroclor 1260**	**9.9**	**65**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.0%
Tetrachlorometaxylene	95.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC08-S
DILUTION

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.8%

CAS Number	Analyte	RL	Result
12674-11-2	**Aroclor 1016**	**30**	**33**
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**56**
11096-82-5	**Aroclor 1260**	**30**	**80**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	118%
Tetrachlorometaxylene	89.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC15-S
SAMPLE

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 19:18
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	**Aroclor 1248**	**9.8**	**19**
11097-69-1	**Aroclor 1254**	**9.8**	**49**
11096-82-5	**Aroclor 1260**	**9.8**	**54**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.8%
Tetrachlorometaxylene	73.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC15-S
DILUTION

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 18:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**49**
11096-82-5	**Aroclor 1260**	**29**	**66**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in μg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	71.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC09-S
SAMPLE

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 19:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 51.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	29	< 29 Y
11097-69-1	Aroclor 1254	9.8	64
11096-82-5	Aroclor 1260	9.8	56
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.0%
Tetrachlorometaxylene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC09-S
DILUTION

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 18:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.1
Percent Moisture: 51.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	Aroclor 1254	29	60
11096-82-5	Aroclor 1260	29	62
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.2%
Tetrachlorometaxylene	84.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC02-S
SAMPLE

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 20:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 60.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	39	< 39 Y
11097-69-1	Aroclor 1254	9.8	88
11096-82-5	Aroclor 1260	9.8	29
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	49.8%
Tetrachlorometaxylene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC02-S
DILUTION

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 18:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 6.8
Percent Moisture: 60.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**78**
11096-82-5	**Aroclor 1260**	**29**	**55**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.8%
Tetrachlorometaxylene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC12-S
SAMPLE

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 20:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	24	< 24 Y
11097-69-1	Aroclor 1254	9.8	32
11096-82-5	Aroclor 1260	9.8	38
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.8%
Tetrachlorometaxylene	88.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC12-S
DILUTION

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 19:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**32**
11096-82-5	**Aroclor 1260**	**29**	**40**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.0%
Tetrachlorometaxylene	82.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC06-S
SAMPLE

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 21:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 48.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	39	< 39 Y
11097-69-1	Aroclor 1254	9.8	57
11096-82-5	Aroclor 1260	9.8	66
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	116%
Tetrachlorometaxylene	83.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC06-S
DILUTION

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 19:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.3
Percent Moisture: 48.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**54**
11096-82-5	**Aroclor 1260**	**29**	**72**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.2%
Tetrachlorometaxylene	82.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC04-S
SAMPLE

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 21:52
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	25	< 25 Y
11097-69-1	**Aroclor 1254**	**9.9**	**71**
11096-82-5	**Aroclor 1260**	**9.9**	**65**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.0%
Tetrachlorometaxylene	91.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC04-S
DILUTION

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 20:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**67**
11096-82-5	**Aroclor 1260**	**30**	**73**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	94.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC03-S
SAMPLE

Lab Sample ID: KZ56P
LIMS ID: 07-9562
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 22:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 39.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.7	< 9.7 U
53469-21-9	Aroclor 1242	9.7	< 9.7 U
12672-29-6	Aroclor 1248	15	< 15 Y
11097-69-1	**Aroclor 1254**	**9.7**	**26**
11096-82-5	**Aroclor 1260**	**9.7**	**31**
11104-28-2	Aroclor 1221	9.7	< 9.7 U
11141-16-5	Aroclor 1232	9.7	< 9.7 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.5%
Tetrachlorometaxylene	78.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC03-S
DILUTION

Lab Sample ID: KZ56P
LIMS ID: 07-9562
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 20:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.3
Percent Moisture: 39.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	Aroclor 1254	29	< 29 U
11096-82-5	**Aroclor 1260**	**29**	**38**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.8%
Tetrachlorometaxylene	87.0%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOLIDS SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
Y3-RC11-S	134%	30-160	113%	30-160	0
Y3-RC11-S DL	130%	30-160	91.5%	30-160	0
Y3-RC01-S	100%	30-160	144%	30-160	0
Y3-RC01-S DL	84.0%	30-160	114%	30-160	0
Y3-RC13-S	95.2%	30-160	126%	30-160	0
Y3-RC13-S DL	101%	30-160	116%	30-160	0
Y3-RC14-S	95.2%	30-160	118%	30-160	0
Y3-RC14-S DL	115%	30-160	109%	30-160	0
Y3-RC10-S	107%	30-160	91.8%	30-160	0
Y3-RC10-S DL	138%	30-160	87.0%	30-160	0
Y3-RC05-S	99.5%	30-160	95.0%	30-160	0
Y3-RC05-S DL	135%	30-160	80.2%	30-160	0
Y3-RC07-S	113%	30-160	88.0%	30-160	0
Y3-RC07-S DL	101%	30-160	87.0%	30-160	0
Y3-RC08-S	96.0%	30-160	95.2%	30-160	0
Y3-RC08-S DL	118%	30-160	89.2%	30-160	0
Y3-RC15-S	92.8%	30-160	73.0%	30-160	0
Y3-RC15-S DL	101%	30-160	71.1%	30-160	0
Y3-RC09-S	78.0%	30-160	102%	30-160	0
Y3-RC09-S DL	95.2%	30-160	84.0%	30-160	0
Y3-RC02-S	49.8%	30-160	103%	30-160	0
Y3-RC02-S DL	93.8%	30-160	106%	30-160	0
MB-052407	100%	30-160	87.0%	30-160	0
LCS-052407	100%	30-160	90.2%	30-160	0
Y3-RC12-S	93.8%	30-160	88.8%	30-160	0
Y3-RC12-S DL	93.0%	30-160	82.5%	30-160	0
Y3-RC12-S MS	85.5%	30-160	89.2%	30-160	0
Y3-RC12-S MSD	106%	30-160	89.2%	30-160	0
Y3-RC06-S	116%	30-160	83.5%	30-160	0
Y3-RC06-S DL	92.2%	30-160	82.5%	30-160	0
Y3-RC04-S	93.0%	30-160	91.5%	30-160	0
Y3-RC04-S DL	85.5%	30-160	94.5%	30-160	0
Y3-RC03-S	82.5%	30-160	78.0%	30-160	0
Y3-RC03-S DL	87.8%	30-160	87.0%	30-160	0

Prep Method: SW3550B
Log Number Range: 07-9547 to 07-9562

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC12-S
MS/MSD

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted MS/MSD: 05/24/07

Date Analyzed MS: 05/30/07 21:01
MSD: 05/30/07 21:18
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount MS: 25.7 g-dry-wt
MSD: 25.5 g-dry-wt
Final Extract Volume MS: 2.5 mL
MSD: 2.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 9.8 U	50.5	49.0	103%	44.6	49.4	90.3%	12.4%
Aroclor 1260	37.6	72.8	49.0	71.8%	73.5	49.4	72.7%	1.0%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC12-S
MATRIX SPIKE

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 21:01
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.7	---
53469-21-9	Aroclor 1242	9.7	< 9.7 U
12672-29-6	Aroclor 1248	24	< 24 Y
11097-69-1	**Aroclor 1254**	9.7	**46**
11096-82-5	Aroclor 1260	9.7	---
11104-28-2	Aroclor 1221	9.7	< 9.7 U
11141-16-5	Aroclor 1232	9.7	< 9.7 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	89.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC12-S
MATRIX SPIKE DUP

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 21:18
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	---
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	24	< 24 Y
11097-69-1	**Aroclor 1254**	9.8	39
11096-82-5	Aroclor 1260	9.8	---
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	89.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-052407
LAB CONTROL

Lab Sample ID: LCS-052407
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 16:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	40.2	50.4	79.8%
Aroclor 1260	47.6	50.4	94.4%

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	90.2%

Results reported in µg/kg (ppb)

4

PCB METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No.: KZ56

Project: THEA FOSS OMMP YEAR

Lab Sample ID: KZ56MBS1

Lab File ID: 0530B011

Date Extracted: 05/24/07

Matrix: SOLID

Date Analyzed: 05/30/07

Instrument ID: ECD5

Time Analyzed: 1626

GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	KZ56LCSS1	KZ56LCSS1	05/30/07
02	Y3-RC11-S	KZ56A	05/30/07
03	Y3-RC01-S	KZ56B	05/30/07
04	Y3-RC13-S	KZ56C	05/30/07
05	Y3-RC14-S	KZ56D	05/30/07
06	Y3-RC10-S	KZ56E	05/30/07
07	Y3-RC05-S	KZ56F	05/30/07
08	Y3-RC07-S	KZ56G	05/30/07
09	Y3-RC08-S	KZ56H	05/30/07
10	Y3-RC15-S	KZ56I	05/30/07
11	Y3-RC09-S	KZ56J	05/30/07
12	Y3-RC02-S	KZ56K	05/30/07
13	Y3-RC12-S	KZ56L	05/30/07
14	Y3-RC12-S MS	KZ56LMS	05/30/07
15	Y3-RC12-S MSD	KZ56LMSD	05/30/07
16	Y3-RC06-S	KZ56M	05/30/07
17	Y3-RC04-S	KZ56N	05/30/07
18	Y3-RC03-S	KZ56P	05/30/07
19	Y3-RC11-S	KZ56A	05/31/07
20	Y3-RC01-S	KZ56B	05/31/07
21	Y3-RC13-S	KZ56C	05/31/07
22	Y3-RC14-S	KZ56D	05/31/07
23	Y3-RC10-S	KZ56E	05/31/07
24	Y3-RC05-S	KZ56F	05/31/07
25	Y3-RC07-S	KZ56G	05/31/07
26	Y3-RC08-S	KZ56H	05/31/07
27	Y3-RC15-S	KZ56I	05/31/07
28	Y3-RC09-S	KZ56J	05/31/07
29	Y3-RC02-S	KZ56K	05/31/07
30	Y3-RC12-S	KZ56L	05/31/07

FORM IV PCB

4

PCB METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No.: KZ56

Project: THEA FOSS OMMP YEAR

Lab Sample ID: KZ56MBS1

Lab File ID: 0530B011

Date Extracted: 05/24/07

Matrix: SOLID

Date Analyzed: 05/30/07

Instrument ID: ECD5

Time Analyzed: 1626

GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	Y3-RC06-S	KZ56M	05/31/07
02	Y3-RC04-S	KZ56N	05/31/07
03	Y3-RC03-S	KZ56P	05/31/07

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-052407
METHOD BLANK

Lab Sample ID: MB-052407
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 16:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	10	< 10 U
11097-69-1	Aroclor 1254	10	< 10 U
11096-82-5	Aroclor 1260	10	< 10 U
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	87.0%

NWTPH-Dx

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Received: 05/17/07

Data Release Authorized:
Reported: 05/30/07

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-051907	Method Blank	05/19/07	05/23/07	1.00	Diesel	0.25	< 0.25 U
07-9561	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		104%
KZ560	Y3-RB-01	05/19/07	05/22/07	1.00	Diesel	0.25	< 0.25 U
07-9561	HC ID: ---		FID3A	1.0	Motor Oil	0.50	< 0.50 U
					o-Terphenyl		95.3%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	OTER	TOT OUT
MB-051907	104%	0
LCS-051907	96.9%	0
LCSD-051907	97.6%	0
Y3-RB-01	95.3%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(60-118)	(54-116)

Prep Method: SW3510C
Log Number Range: 07-9561 to 07-9561

FORM-II TPHD

0101

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-051907
LCS/LCSD

Lab Sample ID: LCS-051907
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/30/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/19/07

Date Analyzed LCS: 05/22/07 18:05
LCSD: 05/22/07 19:04
Instrument/Analyst LCS: FID3A/JGR
LCSD: FID3A/JGR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.51	3.00	83.7%	2.45	3.00	81.7%	2.4%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	96.9%	97.6%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: KZ56
Matrix: Water
Project: THEA FOSS OMMP YEAR 3
Date Received: 05/17/07
3306

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
07-9561-051907MB1	Method Blank	500 mL	1.00 mL	05/19/07
07-9561-051907LCS1	Lab Control	500 mL	1.00 mL	05/19/07
07-9561-051907LCSD1	Lab Control Dup	500 mL	1.00 mL	05/19/07
07-9561-KZ56O	Y3-RB-01	500 mL	1.00 mL	05/19/07

4

TPH METHOD BLANK SUMMARY

BLANK NO.

KZ03MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH

SDG No.: KZ56

Project No.: THEA FOSS OMMP

Date Extracted: 05/19/07

Matrix: LIQUID

Date Analyzed : 05/22/07

Instrument ID : FID3A

Time Analyzed : 1751

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	KZ03LCSW1	KZ03LCSW1	05/23/07
02	KZ03LCSDW1	KZ03LCSDW1	05/22/07
03	Y3-RB-01	KZ56O	05/22/07

FORM IV TPH

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID

Matrix: Sediment

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Received: 05/17/07

Data Release Authorized:
Reported: 05/30/07

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
KZ56A	Y3-RC11-S	05/21/07	05/25/07	1.00	Diesel	190	490
07-9547	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	370	3,000
					o-Terphenyl		D
MB-052107	Method Blank	05/21/07	05/25/07	1.00	Diesel	5.0	< 5.0 U
07-9548	HC ID: ---		FID3A	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		97.3%
KZ56B	Y3-RC01-S	05/21/07	05/25/07	1.00	Diesel	360	540
07-9548	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	720	3,400
					o-Terphenyl		D
KZ56C	Y3-RC13-S	05/21/07	05/25/07	1.00	Diesel	240	560
07-9549	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	480	3,800
					o-Terphenyl		D
KZ56D	Y3-RC14-S	05/21/07	05/25/07	1.00	Diesel	190	300
07-9550	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	380	2,200
					o-Terphenyl		D
KZ56E	Y3-RC10-S	05/21/07	05/25/07	1.00	Diesel	130	140
07-9551	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	270	1,000
					o-Terphenyl		D
KZ56F	Y3-RC05-S	05/21/07	05/25/07	1.00	Diesel	210	540
07-9552	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	430	3,300
					o-Terphenyl		D
KZ56G	Y3-RC07-S	05/21/07	05/25/07	1.00	Diesel	180	310
07-9553	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	350	2,200
					o-Terphenyl		D
KZ56H	Y3-RC08-S	05/21/07	05/25/07	1.00	Diesel	190	490
07-9554	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	380	3,100
					o-Terphenyl		D
KZ56I	Y3-RC15-S	05/21/07	05/25/07	1.00	Diesel	190	520
07-9555	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	380	3,100
					o-Terphenyl		D
KZ56J	Y3-RC09-S	05/21/07	05/25/07	1.00	Diesel	210	560
07-9556	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	410	3,600
					o-Terphenyl		D
KZ56K	Y3-RC02-S	05/21/07	05/25/07	1.00	Diesel	250	790
07-9557	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	500	5,600
					o-Terphenyl		D
KZ56L	Y3-RC12-S	05/21/07	05/25/07	1.00	Diesel	150	220
07-9558	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	310	1,300
					o-Terphenyl		D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID

Matrix: Sediment

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Received: 05/17/07

Data Release Authorized:
Reported: 05/30/07

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
KZ56M	Y3-RC06-S	05/21/07	05/25/07	1.00	Diesel	190	420
07-9559	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	380	2,900
					o-Terphenyl		D
KZ56N	Y3-RC04-S	05/21/07	05/25/07	1.00	Diesel	210	500
07-9560	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	420	3,300
					o-Terphenyl		D
KZ56P	Y3-RC03-S	05/21/07	05/25/07	1.00	Diesel	160	230
07-9562	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil	330	1,500
					o-Terphenyl		D

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	OTER	TOT OUT
Y3-RC11-S	D	0
052107MBS	97.3%	0
052107LCS	96.2%	0
052107LCSD	103%	0
Y3-RC01-S	D	0
Y3-RC01-S MS	D	0
Y3-RC01-S MSD	D	0
Y3-RC13-S	D	0
Y3-RC14-S	D	0
Y3-RC10-S	D	0
Y3-RC05-S	D	0
Y3-RC07-S	D	0
Y3-RC08-S	D	0
Y3-RC15-S	D	0
Y3-RC09-S	D	0
Y3-RC02-S	D	0
Y3-RC12-S	D	0
Y3-RC06-S	D	0
Y3-RC04-S	D	0
Y3-RC03-S	D	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(50-116)	(49-109)

Prep Method: SW3550B
Log Number Range: 07-9547 to 07-9562

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID

Sample ID: Y3-RC01-S
MS/MSD

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/30/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted MS/MSD: 05/21/07

Date Analyzed MS: 05/25/07 09:52
MSD: 05/25/07 14:00
Instrument/Analyst MS: FID3A/JGR
MSD: FID3A/JGR

Sample Amount MS: 2.79 g-dry-wt
MSD: 2.79 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 20.0
MSD: 20.0
Percent Moisture: 72.2%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	545	1,240	538	129%	1,220	538	125%	1.6%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	D	D

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-052107
LCS/LCSD

Lab Sample ID: LCS-052107
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/30/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/21/07

Date Analyzed LCS: 05/25/07 08:10
LCSD: 05/25/07 08:25
Instrument/Analyst LCS: FID3A/JGR
LCSD: FID3A/JGR

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	124	150	82.7%	134	150	89.3%	7.8%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	96.2%	103%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: KZ56
Project: THEA FOSS OMMP YEAR 3
3306

Matrix: Sediment
Date Received: 05/17/07

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
07-9547-KZ56A	Y3-RC11-S	5.36 g	1.00 mL	D	05/21/07
07-9548-052107MB1	Method Blank	10.0 g	1.00 mL	-	05/21/07
07-9548-052107LCS1	Lab Control	10.0 g	1.00 mL	-	05/21/07
07-9548-052107LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	05/21/07
07-9548-KZ56B	Y3-RC01-S	2.79 g	1.00 mL	D	05/21/07
07-9548-KZ56BMS	Y3-RC01-S	2.79 g	1.00 mL	D	05/21/07
07-9548-KZ56BMSD	Y3-RC01-S	2.79 g	1.00 mL	D	05/21/07
07-9549-KZ56C	Y3-RC13-S	4.14 g	1.00 mL	D	05/21/07
07-9550-KZ56D	Y3-RC14-S	5.34 g	1.00 mL	D	05/21/07
07-9551-KZ56E	Y3-RC10-S	7.50 g	1.00 mL	D	05/21/07
07-9552-KZ56F	Y3-RC05-S	4.70 g	1.00 mL	D	05/21/07
07-9553-KZ56G	Y3-RC07-S	5.73 g	1.00 mL	D	05/21/07
07-9554-KZ56H	Y3-RC08-S	5.24 g	1.00 mL	D	05/21/07
07-9555-KZ56I	Y3-RC15-S	5.32 g	1.00 mL	D	05/21/07
07-9556-KZ56J	Y3-RC09-S	4.86 g	1.00 mL	D	05/21/07
07-9557-KZ56K	Y3-RC02-S	3.97 g	1.00 mL	D	05/21/07
07-9558-KZ56L	Y3-RC12-S	6.48 g	1.00 mL	D	05/21/07
07-9559-KZ56M	Y3-RC06-S	5.20 g	1.00 mL	D	05/21/07
07-9560-KZ56N	Y3-RC04-S	4.73 g	1.00 mL	D	05/21/07
07-9562-KZ56P	Y3-RC03-S	6.06 g	1.00 mL	D	05/21/07

Basis: D=Dry Weight W=As Received

TPH METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH

SDG No.: KZ56

Project No.: THEA FOSS OMMP YEAR 3

Date Extracted: 05/21/07

Matrix: SOLID

Date Analyzed : 05/25/07

Instrument ID : FID3A

Time Analyzed : 0756

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	KZ56LCSS1	KZ56LCSS1	05/25/07
02	KZ56LCSDS1	KZ56LCSDS1	05/25/07
03	Y3-RC11-S	KZ56A	05/25/07
04	Y3-RC01-S	KZ56B	05/25/07
05	Y3-RC01-S MS	KZ56BMS	05/25/07
06	Y3-RC01-S MS	KZ56BMSD	05/25/07
07	Y3-RC13-S	KZ56C	05/25/07
08	Y3-RC14-S	KZ56D	05/25/07
09	Y3-RC10-S	KZ56E	05/25/07
10	Y3-RC05-S	KZ56F	05/25/07
11	Y3-RC07-S	KZ56G	05/25/07
12	Y3-RC08-S	KZ56H	05/25/07
13	Y3-RC15-S	KZ56I	05/25/07
14	Y3-RC09-S	KZ56J	05/25/07
15	Y3-RC02-S	KZ56K	05/25/07
16	Y3-RC12-S	KZ56L	05/25/07
17	Y3-RC06-S	KZ56M	05/25/07
18	Y3-RC04-S	KZ56N	05/25/07
19	Y3-RC03-S	KZ56P	05/25/07

FORM IV TPH

METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC11-S
SAMPLE

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 44.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	73	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.09	0.19	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	195	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC11-S DUPLICATE

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Lead	6010B	73	76	4.0%	+/- 20%	
Mercury	7471A	0.19	0.20	5.1%	+/- 0.09	L
Zinc	6010B	195	209	6.9%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC11-S
MATRIX SPIKE

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Lead	6010B	73	481	433	94.2%	
Mercury	7471A	0.19	1.06	0.921	94.5%	
Zinc	6010B	195	305	108	102%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC01-S
SAMPLE

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 25.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	8	111	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.1	0.3	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	4	380	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC13-S
SAMPLE

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 30.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	5	113	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.1	0.2	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	3	256	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC14-S
SAMPLE

Lab Sample ID: KZ56D
LIMS ID: 07-9550
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 52.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	70	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.07	0.10	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	209	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC10-S
SAMPLE

Lab Sample ID: KZ56E
LIMS ID: 07-9551
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 66.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	3	33	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.06	0.08	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	1	102	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC05-S
SAMPLE

Lab Sample ID: KZ56F
LIMS ID: 07-9552
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 45.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	78	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.1	0.2	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	220	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC07-S
SAMPLE

Lab Sample ID: KZ56G
LIMS ID: 07-9553
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 51.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	64	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.09	0.15	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	173	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC08-S
SAMPLE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 48.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	70	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.09	0.18	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	184	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC15-S
SAMPLE

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 47.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	76	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.1	0.2	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	194	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC09-S
SAMPLE

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 42.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	5	86	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.1	0.2	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	221	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC02-S
SAMPLE

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Percent Total Solids: 33.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	6	114	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.1	0.2	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	3	539	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC12-S
SAMPLE

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Percent Total Solids: 60.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	3	39	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.07	0.14	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	109	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC06-S
SAMPLE

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Percent Total Solids: 47.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	86	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.08	0.18	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	227	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC04-S
SAMPLE

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Percent Total Solids: 43.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	4	77	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.09	0.32	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	227	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RB-01
SAMPLE

Lab Sample ID: KZ560
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	05/21/07	6010B	05/23/07	7439-92-1	Lead	0.02	0.02	U
7470A	05/21/07	7470A	05/24/07	7439-97-6	Mercury	0.0001	0.0001	U
3010A	05/21/07	6010B	05/23/07	7440-66-6	Zinc	0.01	0.01	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: Y3-RC03-S
SAMPLE

Lab Sample ID: KZ56P
LIMS ID: 07-9562
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Percent Total Solids: 54.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	3	36	
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.07	0.10	
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	2	113	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: KZ56MB
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/21/07	6010B	05/23/07	7439-92-1	Lead	2	2	U
CLP	05/21/07	7471A	05/24/07	7439-97-6	Mercury	0.05	0.05	U
3050B	05/21/07	6010B	05/23/07	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: KZ56LCS
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Lead	6010B	205	200	102%	
Mercury	7471A	1.12	1.00	112%	
Zinc	6010B	51	50	102%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: KZ56MB
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	05/21/07	6010B	05/23/07	7439-92-1	Lead	0.02	0.02	U
7470A	05/21/07	7470A	05/24/07	7439-97-6	Mercury	0.0001	0.0001	U
3010A	05/21/07	6010B	05/23/07	7440-66-6	Zinc	0.01	0.01	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: KZ56LCS
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/29/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Lead	6010B	2.06	2.00	103%	
Mercury	7470A	0.0022	0.0020	110%	
Zinc	6010B	0.50	0.50	100%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC11-S
ARI ID: 07-9547 KZ56A

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	48.00
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	6.08

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC01-S
ARI ID: 07-9548 KZ56B

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	26.50
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	11.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC13-S
ARI ID: 07-9549 KZ56C

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	39.80
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	5.47

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC14-S
ARI ID: 07-9550 KZ56D

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	52.40
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	7.33

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC10-S
ARI ID: 07-9551 KZ56E

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	68.40
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	5.27

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC05-S
ARI ID: 07-9552 KZ56F

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	44.00
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	5.89

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC07-S
ARI ID: 07-9553 KZ56G

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	52.90
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	5.44

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC08-S
ARI ID: 07-9554 KZ56H

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	47.80
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	3.36

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC15-S
ARI ID: 07-9555 KZ56I

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	47.20
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	5.45

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC09-S
ARI ID: 07-9556 KZ56J

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	42.90
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	3.13

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Client ID: Y3-RC02-S
ARI ID: 07-9557 KZ56K

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	33.40
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	7.02

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Client ID: Y3-RC12-S
ARI ID: 07-9558 KZ56L

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	61.40
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	4.91

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Client ID: Y3-RC06-S
ARI ID: 07-9559 KZ56M

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	48.20
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	3.73

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Client ID: Y3-RC04-S
ARI ID: 07-9560 KZ56N

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#4	EPA 160.3	Percent	0.01	45.50
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	7.21

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Client ID: Y3-RC03-S
ARI ID: 07-9562 KZ56P

Analyte	Date	Method	Units	RL	Sample
Total Solids	05/24/07 052407#6	EPA 160.3	Percent	0.01	55.10
Total Organic Carbon	05/28/07 052807#1	Plumb,1981	Percent	0.020	5.13

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	05/24/07	Percent	< 0.01 U
	05/24/07		< 0.01 U
	05/24/07		< 0.01 U
Total Organic Carbon	05/28/07	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	05/28/07	Percent	0.506	0.500	101.2%

STANDARD REFERENCE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	05/28/07	Percent	3.53	3.35	105.4%

REPLICATE RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: KZ56H Client ID: Y3-RC08-S					
Total Solids	05/24/07	Percent	47.80	48.20 48.50	0.7%
Total Organic Carbon	05/28/07	Percent	3.36	4.08 4.08	10.8%

MS/MSD RESULTS-CONVENTIONALS
KZ56-Tetra Tech, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

Project: THEA FOSS OMMP YEAR 3
Event: 3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: KZ56H Client ID: Y3-RC08-S						
Total Organic Carbon	05/28/07	Percent	3.36	6.29	3.27	89.6%

GRAINSIZE

Tetra Tech
THEA FOSS OMMP YEAR 3: 3306

Apparent Grain Size Distribution Summary
Percent Finer Than Indicated Size

Sample No.	Gravel			Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt				Clay	
Phi Size	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
Sieve Size (microns)	3/8"	#4	#10 (2000)	#18 (1000)	#35 (500)	#60 (250)	#120 (125)	#230 (62)	31.00	15.60	7.80	3.90	2.00	1.00
Y3-RC08-S	100.0	99.9	99.2	97.9	89.5	68.3	50.4	41.4	35.4	26.4	17.4	12.0	8.3	5.5
Y3-RC08-S	100.0	99.9	99.7	98.3	90.4	69.4	51.7	42.7	39.4	26.6	17.3	12.0	8.1	5.7
Y3-RC08-S	100.0	98.4	96.6	93.5	86.7	67.2	50.3	42.0	36.3	27.1	18.4	12.6	8.4	5.8
Y3-RC11-S	100.0	100.0	90.3	83.8	71.2	59.0	53.8	49.6	45.3	30.2	18.9	13.9	9.6	6.4
Y3-RC01-S	100.0	81.8	68.3	52.4	42.2	34.9	29.4	24.2	22.3	17.0	13.1	10.0	7.3	5.3
Y3-RC13-S	100.0	98.1	95.4	89.1	81.4	71.2	54.1	40.4	32.4	23.5	17.4	13.2	10.3	6.6
Y3-RC14-S	100.0	95.1	86.4	79.4	68.2	54.7	38.3	23.4	19.4	14.2	10.3	7.7	5.5	4.1
Y3-RC10-S	100.0	96.7	79.8	68.6	52.6	31.7	22.2	18.5	15.4	11.9	8.5	5.9	3.9	2.6
Y3-RC05-S	100.0	100.0	99.3	96.2	91.0	78.5	62.8	51.0	43.7	34.1	24.0	16.6	11.1	7.2
Y3-RC07-S	100.0	96.7	96.3	93.8	84.2	58.2	40.3	33.5	30.1	22.8	15.9	10.8	7.3	4.7
Y3-RC15-S	100.0	99.8	99.2	97.8	89.7	68.5	50.8	41.9	36.2	26.8	18.6	12.4	8.2	5.5
Y3-RC09-S	100.0	100.0	99.4	98.1	91.5	73.9	57.6	49.2	42.2	31.8	21.4	14.5	9.8	6.7
Y3-RC02-S	100.0	99.4	97.6	92.2	82.9	68.4	48.7	36.3	29.5	21.2	14.4	10.6	8.0	6.3
Y3-RC12-S	100.0	95.3	70.4	59.3	46.0	32.6	27.6	24.7	20.6	15.9	11.2	7.5	5.1	3.4
Y3-RC06-S	100.0	97.9	95.4	92.9	87.4	69.6	53.8	45.0	39.0	30.1	13.7	9.3	7.7	5.9
Y3-RC04-S	100.0	100.0	99.3	98.5	93.2	79.6	64.1	52.9	46.0	35.9	26.3	17.1	11.7	7.7
Y3-RC03-S	100.0	100.0	99.9	96.7	88.4	67.6	44.2	31.7	25.3	19.7	14.0	9.7	6.9	4.6

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

KZ56

Tetra Tech
THEA FOSS OMMP YEAR 3: 3306

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
Y3-RC08-S	0.8	1.3	8.4	21.2	17.9	9.0	6.0	9.0	9.0	5.4	3.7	2.8	5.5	41.4
Y3-RC08-S	0.3	1.3	8.0	21.0	17.7	9.0	3.3	12.7	9.3	5.3	3.9	2.4	5.7	42.7
Y3-RC08-S	3.4	3.1	6.8	19.5	16.9	8.3	5.7	9.2	8.8	5.8	4.2	2.7	5.8	42.0
Y3-RC11-S	9.7	6.5	12.6	12.2	5.2	4.2	4.4	15.1	11.2	5.0	4.3	3.2	6.4	49.6
Y3-RC01-S	31.7	16.0	10.1	7.3	5.5	5.1	1.9	5.3	3.9	3.1	2.7	2.0	5.3	24.2
Y3-RC13-S	4.6	6.3	7.7	10.2	17.1	13.6	8.1	8.8	6.1	4.2	2.9	3.7	6.6	40.4
Y3-RC14-S	13.6	7.0	11.2	13.5	16.4	14.9	4.0	5.2	3.9	2.6	2.2	1.5	4.1	23.4
Y3-RC10-S	20.2	11.1	16.1	20.9	9.4	3.7	3.1	3.5	3.4	2.6	2.0	1.3	2.6	18.5
Y3-RC05-S	0.7	3.1	5.3	12.4	15.7	11.8	7.2	9.6	10.1	7.4	5.6	3.9	7.2	51.0
Y3-RC07-S	3.7	2.6	9.6	26.0	17.9	6.8	3.4	7.4	6.8	5.2	3.5	2.6	4.7	33.5
Y3-RC15-S	0.8	1.5	8.0	21.2	17.7	8.9	5.7	9.4	8.3	6.2	4.2	2.7	5.5	41.9
Y3-RC09-S	0.6	1.3	6.6	17.6	16.4	8.3	7.0	10.4	10.4	6.8	4.7	3.1	6.7	49.2
Y3-RC02-S	2.4	5.4	9.3	14.5	19.7	12.5	6.8	8.3	6.8	3.9	2.6	1.7	6.3	36.3
Y3-RC12-S	29.6	11.2	13.3	13.4	5.0	3.0	4.1	4.7	4.7	3.7	2.4	1.7	3.4	24.7
Y3-RC06-S	4.6	2.5	5.5	17.7	15.8	8.8	6.1	8.9	16.4	4.4	1.6	1.8	5.9	45.0
Y3-RC04-S	0.7	0.8	5.3	13.6	15.5	11.2	6.9	10.1	9.6	9.2	5.4	4.0	7.7	52.9
Y3-RC03-S	0.1	3.2	8.4	20.8	23.4	12.5	6.4	5.6	5.7	4.3	2.8	2.3	4.6	31.7

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

KZ56

QA SUMMARY

PROJECT:	Tetra Tech	Project No.:	THEA FOSS OMMP YEAR 3: 3306
ARI Triplicate Sample ID:	KZ56 H	Batch No.:	KZ56 -1
Client Triplicate Sample ID:	Y3-RC08-S	Page:	1 of 1

Relative Standard Deviation, By Phi Size

Sample ID	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
Y3-RC08-S	100.0	99.9	99.2	97.9	89.5	68.3	50.4	41.4	35.4	26.4	17.4	12.0	8.3	5.5
Y3-RC08-S	100.0	99.9	99.7	98.3	90.4	69.4	51.7	42.7	39.4	26.6	17.3	12.0	8.1	5.7
Y3-RC08-S	100.0	98.4	96.6	93.5	86.7	67.2	50.3	42.0	36.3	27.1	18.4	12.6	8.4	5.8
AVE	NA	99.40	98.49	96.58	88.86	68.29	50.81	42.02	37.04	26.72	17.68	12.21	8.28	5.66
STDEV	NA	0.83	1.66	2.67	1.94	1.10	0.76	0.64	2.07	0.37	0.60	0.34	0.14	0.15
%RSD	NA	0.84	1.68	2.76	2.18	1.61	1.49	1.52	5.59	1.38	3.37	2.79	1.65	2.67

The Triplicate Applies To The Following Samples

Client ID	Date Sampled	Date Extracted	Date Complete	QA Ratio (95-105)	Data Qualifiers	Pipette Portion (5.0-25.0g)
Y3-RC08-S	5/16/2007	5/21/2007	5/25/2007	99.6		10.0
Y3-RC08-S	5/16/2007	5/21/2007	5/25/2007	100.6		10.3
Y3-RC08-S	5/16/2007	5/21/2007	5/25/2007	100.6		9.8
Y3-RC11-S	5/16/2007	5/21/2007	5/25/2007	101.0		11.1
Y3-RC01-S	5/16/2007	5/21/2007	5/30/2007	98.3		5.8
Y3-RC13-S	5/16/2007	5/21/2007	5/25/2007	99.7		9.1
Y3-RC14-S	5/16/2007	5/21/2007	5/25/2007	97.9		7.3
Y3-RC10-S	5/16/2007	5/21/2007	5/25/2007	100.1		7.9
Y3-RC05-S	5/16/2007	5/21/2007	5/25/2007	102.5		10.2
Y3-RC07-S	5/16/2007	5/21/2007	5/25/2007	99.0		8.3
Y3-RC15-S	5/16/2007	5/21/2007	5/25/2007	99.9		8.9
Y3-RC09-S	5/16/2007	5/21/2007	5/25/2007	101.6		9.6
Y3-RC02-S	5/16/2007	5/21/2007	5/25/2007	99.5		9.0
Y3-RC12-S	5/17/2007	5/21/2007	5/25/2007	100.8		8.4
Y3-RC06-S	5/17/2007	5/21/2007	5/25/2007	99.2		10.3
Y3-RC04-S	5/17/2007	5/21/2007	5/25/2007	100.1		11.0
Y3-RC03-S	5/17/2007	5/21/2007	5/25/2007	100.2		9.3

* ARI Internal QA limits = 95-105%

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

KZ56

Laboratory Data Package

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

Semivolatile Organics
QC Summary Data

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-052107	70.0%	58.0%	74.4%	57.6%	65.9%	62.9%	64.0%	66.4%	0
LCS-052107	83.2%	77.2%	91.2%	70.0%	75.2%	74.1%	85.6%	74.9%	0
LCSD-052107	83.6%	73.6%	88.8%	64.4%	73.3%	71.5%	85.9%	72.3%	0
Y3-RB-01	79.2%	70.4%	80.8%	70.4%	71.7%	67.5%	72.5%	72.8%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(53-103)	(44-98)
(FBP) = 2-Fluorobiphenyl	(53-102)	(44-101)
(TPH) = d14-p-Terphenyl	(59-115)	(28-121)
(DCB) = d4-1,2-Dichlorobenzene	(44-94)	(36-95)
(PHL) = d5-Phenol	(46-105)	(42-95)
(2FP) = 2-Fluorophenol	(48-99)	(41-90)
(TBP) = 2,4,6-Tribromophenol	(54-115)	(48-112)
(2CP) = d4-2-Chlorophenol	(54-104)	(46-98)

Prep Method: SW3520C
Log Number Range: 07-9561 to 07-9561

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-052107
LCS/LCSD

Lab Sample ID: LCS-052107
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted LCS/LCSD: 05/21/07

Date Analyzed LCS: 05/25/07 12:40
LCSD: 05/25/07 13:13
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	18.1	25.0	72.4%	18.4	25.0	73.6%	1.6%
2-Methylnaphthalene	17.5	25.0	70.0%	17.9	25.0	71.6%	2.3%
Acenaphthylene	19.0	25.0	76.0%	19.4	25.0	77.6%	2.1%
Acenaphthene	19.3	25.0	77.2%	20.0	25.0	80.0%	3.6%
Dibenzofuran	18.9	25.0	75.6%	19.6	25.0	78.4%	3.6%
Fluorene	18.6	25.0	74.4%	19.4	25.0	77.6%	4.2%
Phenanthrene	18.1	25.0	72.4%	19.5	25.0	78.0%	7.4%
Anthracene	17.8	25.0	71.2%	18.8	25.0	75.2%	5.5%
Fluoranthene	18.4	25.0	73.6%	19.7	25.0	78.8%	6.8%
Pyrene	21.4	25.0	85.6%	21.4	25.0	85.6%	0.0%
Benzo(a)anthracene	19.9	25.0	79.6%	19.6	25.0	78.4%	1.5%
bis(2-Ethylhexyl)phthalate	21.4	25.0	85.6%	23.1	25.0	92.4%	7.6%
Chrysene	18.7	25.0	74.8%	18.7	25.0	74.8%	0.0%
Benzo(b)fluoranthene	19.3	25.0	77.2%	20.7	25.0	82.8%	7.0%
Benzo(k)fluoranthene	20.2	25.0	80.8%	21.6	25.0	86.4%	6.7%
Benzo(a)pyrene	18.1	25.0	72.4%	18.9	25.0	75.6%	4.3%
Indeno(1,2,3-cd)pyrene	18.7	25.0	74.8%	19.6	25.0	78.4%	4.7%
Dibenz(a,h)anthracene	19.0	25.0	76.0%	20.0	25.0	80.0%	5.1%
Benzo(g,h,i)perylene	18.8	25.0	75.2%	19.7	25.0	78.8%	4.7%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	83.2%	83.6%
2-Fluorobiphenyl	77.2%	73.6%
d14-p-Terphenyl	91.2%	88.8%
d4-1,2-Dichlorobenzene	70.0%	64.4%
d5-Phenol	75.2%	73.3%
2-Fluorophenol	74.1%	71.5%
2,4,6-Tribromophenol	85.6%	85.9%
d4-2-Chlorophenol	74.9%	72.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

KZ56MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No: KZ56

Project: THEA FOSS OMMP YEAR

Lab File ID: KZ60MB

Date Extracted: 05/21/07

Instrument ID: NT6

Date Analyzed: 05/25/07

Matrix: LIQUID

Time Analyzed: 1206

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	KZ56LCSW1	KZ56LCSW1	KZ60SB	05/25/07
02	KZ56LCSDW1	KZ56LCSDW1	KZ60SBD	05/25/07
03	Y3-RB-01	KZ56O	KZ56O	05/25/07
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
Y3-RC11-S	70.4%	71.8%	65.2%	61.3%	63.5%	50.1%	66.3%	62.0%	0
Y3-RC11-S DL	76.8%	76.0%	76.0%	66.8%	74.1%	60.3%	71.5%	68.5%	0
Y3-RC01-S	60.8%	61.2%	60.0%	54.7%	58.4%	47.6%	58.3%	57.6%	0
Y3-RC01-S DL	65.6%	63.2%	66.0%	59.2%	63.5%	56.0%	60.8%	64.5%	0
Y3-RC13-S	72.1%	72.2%	71.3%	66.2%	68.6%	60.8%	65.9%	68.5%	0
Y3-RC13-S DL	72.2%	71.0%	72.0%	62.8%	69.9%	62.8%	73.2%	68.0%	0
Y3-RC14-S	67.7%	66.5%	65.6%	60.8%	61.7%	54.5%	64.1%	61.8%	0
Y3-RC10-S	64.6%	65.6%	63.6%	60.0%	60.6%	52.4%	61.5%	61.0%	0
Y3-RC05-S	46.8%	46.8%	45.6%	40.4%	44.1%	38.7%	47.9%	42.3%	0
Y3-RC07-S	65.8%	64.6%	61.7%	57.8%	62.2%	52.7%	66.2%	60.9%	0
MB-052207	69.2%	62.8%	72.8%	63.2%	63.5%	47.2%	59.7%	63.2%	0
LCS-052207	78.4%	76.8%	84.4%	67.6%	70.9%	53.9%	80.8%	68.8%	0
LCSD-052207	64.8%	63.6%	72.4%	56.4%	60.3%	45.6%	65.9%	58.1%	0
Y3-RC08-S	68.0%	67.8%	62.3%	58.6%	62.2%	53.4%	58.9%	59.9%	0
Y3-RC08-S MS	70.8%	69.6%	67.7%	62.3%	66.0%	53.4%	68.7%	63.8%	0
Y3-RC08-S MSD	82.7%	81.4%	75.7%	74.9%	75.6%	60.8%	79.0%	76.4%	0
Y3-RC15-S	76.6%	72.0%	74.8%	69.6%	74.6%	62.2%	81.6%	73.2%	0
Y3-RC15-S DL	78.0%	72.4%	71.4%	69.2%	71.3%	63.2%	77.6%	72.3%	0
Y3-RC09-S	62.2%	59.0%	60.6%	58.0%	58.6%	53.0%	61.2%	58.3%	0
Y3-RC09-S DL	60.2%	60.0%	60.2%	58.4%	59.1%	54.3%	62.9%	58.9%	0
Y3-RC02-S	67.6%	63.7%	68.0%	61.1%	64.2%	51.1%	68.7%	64.2%	0
Y3-RC02-S DL	67.2%	66.0%	68.8%	62.6%	64.8%	55.9%	70.5%	64.3%	0
Y3-RC12-S	67.1%	65.6%	63.5%	59.2%	63.4%	50.0%	68.6%	62.0%	0
Y3-RC06-S	61.4%	59.2%	59.5%	58.3%	59.4%	53.4%	60.1%	59.1%	0
Y3-RC06-S DL	63.0%	59.6%	65.4%	58.8%	60.4%	55.6%	70.8%	60.0%	0
MB-060107	72.0%	65.6%	72.4%	65.2%	68.3%	61.1%	74.7%	68.3%	0
LCS-060107	73.2%	67.6%	72.4%	64.8%	66.4%	57.6%	75.7%	64.8%	0
Y3-RC04-S	16.4%*	15.6%*	16.9%*	15.1%*	15.7%*	14.0%	17.2%*	15.4%*	7
Y3-RC04-S RE	60.7%	59.9%	55.3%	57.0%	58.5%	52.5%	66.4%	58.7%	0
Y3-RC04-S REDL	63.6%	61.6%	60.0%	57.6%	60.8%	55.5%	70.4%	60.5%	0
Y3-RC03-S	78.7%	76.4%	72.4%	71.4%	73.0%	66.0%	74.9%	74.2%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(42-79)	(26-88)
(FBP) = 2-Fluorobiphenyl	(43-80)	(34-91)
(TPH) = d14-p-Terphenyl	(39-105)	(22-100)
(DCB) = d4-1,2-Dichlorobenzene	(38-79)	(24-90)
(PHL) = d5-Phenol	(42-82)	(25-86)
(2FP) = 2-Fluorophenol	(26-83)	(11-84)
(TBP) = 2,4,6-Tribromophenol	(41-94)	(25-107)
(2CP) = d4-2-Chlorophenol	(43-80)	(23-91)

Prep Method: SW3550B
Log Number Range: 07-9547 to 07-9562

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: Y3-RC08-S
MS/MSD

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted MS/MSD: 05/22/07

Date Analyzed MS: 05/26/07 17:43
MSD: 05/26/07 18:16
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: YES

Sample Amount MS: 26.1 g-dry-wt
MSD: 26.1 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 3.00
MSD: 3.00
Percent Moisture: 47.8 %
pH: 7.1

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Acenaphthene	87.3	669	957	60.8%	799	957	74.4%	17.7%
Pyrene	1900	2590	957	72.1%	2930	957	108%	12.3%
Benzo(g,h,i)perylene	646	913	957	27.9%	968	957	33.6%	5.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: LCS-052207
LCS/LCSD

Lab Sample ID: LCS-052207
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted LCS/LCSD: 05/22/07

Date Analyzed LCS: 05/26/07 13:29
LCSD: 05/26/07 14:02
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: YES

Sample Amount LCS: 50.0 g
LCSD: 50.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	337	500	67.4%	281	500	56.2%	18.1%
2-Methylnaphthalene	323	500	64.6%	275	500	55.0%	16.1%
Acenaphthylene	355	500	71.0%	303	500	60.6%	15.8%
Acenaphthene	363	500	72.6%	304	500	60.8%	17.7%
Dibenzofuran	361	500	72.2%	306	500	61.2%	16.5%
Fluorene	357	500	71.4%	305	500	61.0%	15.7%
Phenanthrene	358	500	71.6%	308	500	61.6%	15.0%
Anthracene	338	500	67.6%	292	500	58.4%	14.6%
Fluoranthene	356	500	71.2%	306	500	61.2%	15.1%
Pyrene	388	500	77.6%	339	500	67.8%	13.5%
Benzo(a)anthracene	383	500	76.6%	324	500	64.8%	16.7%
bis(2-Ethylhexyl)phthalate	413	500	82.6%	353	500	70.6%	15.7%
Chrysene	365	500	73.0%	311	500	62.2%	16.0%
Benzo(b)fluoranthene	370	500	74.0%	327	500	65.4%	12.3%
Benzo(k)fluoranthene	405	500	81.0%	342	500	68.4%	16.9%
Benzo(a)pyrene	350	500	70.0%	297	500	59.4%	16.4%
Indeno(1,2,3-cd)pyrene	360	500	72.0%	294	500	58.8%	20.2%
Dibenz(a,h)anthracene	365	500	73.0%	304	500	60.8%	18.2%
Benzo(g,h,i)perylene	345	500	69.0%	282	500	56.4%	20.1%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	78.4%	64.8%
2-Fluorobiphenyl	76.8%	63.6%
d14-p-Terphenyl	84.4%	72.4%
d4-1,2-Dichlorobenzene	67.6%	56.4%
d5-Phenol	70.9%	60.3%
2-Fluorophenol	53.9%	45.6%
2,4,6-Tribromophenol	80.8%	65.9%
d4-2-Chlorophenol	68.8%	58.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: LCS-060107
LAB CONTROL

Lab Sample ID: LCS-060107
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 10:24
Instrument/Analyst: NT6/LJR
GPC Cleanup: YES

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

Analyte	Lab Control	Spike Added	Recovery
Naphthalene	332	500	66.4%
2-Methylnaphthalene	333	500	66.6%
Acenaphthylene	333	500	66.6%
Acenaphthene	330	500	66.0%
Dibenzofuran	350	500	70.0%
Fluorene	352	500	70.4%
Phenanthrene	355	500	71.0%
Anthracene	344	500	68.8%
Fluoranthene	353	500	70.6%
Pyrene	372	500	74.4%
Benzo(a)anthracene	357	500	71.4%
bis(2-Ethylhexyl)phthalate	381	500	76.2%
Chrysene	328	500	65.6%
Benzo(b)fluoranthene	378	500	75.6%
Benzo(k)fluoranthene	388	500	77.6%
Benzo(a)pyrene	351	500	70.2%
Indeno(1,2,3-cd)pyrene	385	500	77.0%
Dibenz(a,h)anthracene	382	500	76.4%
Benzo(g,h,i)perylene	377	500	75.4%

Semivolatile Surrogate Recovery	
d5-Nitrobenzene	73.2%
2-Fluorobiphenyl	67.6%
d14-p-Terphenyl	72.4%
d4-1,2-Dichlorobenzene	64.8%
d5-Phenol	66.4%
2-Fluorophenol	57.6%
2,4,6-Tribromophenol	75.7%
d4-2-Chlorophenol	64.8%

Results reported in µg/kg

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No: KZ56

Project: THEA FOSS OMMP YEAR

Lab File ID: KZ56MB

Date Extracted: 05/22/07

Instrument ID: NT6

Date Analyzed: 05/26/07

Matrix: SOLID

Time Analyzed: 1255

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	KZ56LCSS1	KZ56LCSS1	KZ56SB	05/26/07
02	KZ56LCSDS1	KZ56LCSDS1	KZ56SBD	05/26/07
03	Y3-RC08-S	KZ56H	KZ56H	05/26/07
04	Y3-RC08-S MS	KZ56HMS	KZ56HMS	05/26/07
05	Y3-RC08-S MSD	KZ56HMSD	KZ56HMSD	05/26/07
06	Y3-RC11-S	KZ56A	KZ56A	05/26/07
07	Y3-RC01-S	KZ56B	KZ56B	05/26/07
08	Y3-RC13-S	KZ56C	KZ56C	05/26/07
09	Y3-RC14-S	KZ56D	KZ56D	05/26/07
10	Y3-RC10-S	KZ56E	KZ56E	05/26/07
11	Y3-RC11-S	KZ56A	KZ56ADL	05/29/07
12	Y3-RC01-S	KZ56B	KZ56BDL	05/29/07
13	Y3-RC13-S	KZ56C	KZ56CDL	05/29/07
14	Y3-RC05-S	KZ56F	KZ56FDL	05/29/07
15	Y3-RC07-S	KZ56G	KZ56G2	05/29/07
16	Y3-RC15-S	KZ56I	KZ56I	05/29/07
17	Y3-RC09-S	KZ56J	KZ56J	05/29/07
18	Y3-RC02-S	KZ56K	KZ56K	05/29/07
19	Y3-RC12-S	KZ56L	KZ56L	05/29/07
20	Y3-RC06-S	KZ56M	KZ56M	05/29/07
21	Y3-RC04-S	KZ56N	KZ56N	05/29/07
22	Y3-RC03-S	KZ56P	KZ56P	05/29/07
23	Y3-RC15-S	KZ56I	KZ56IDL	05/29/07
24	Y3-RC09-S	KZ56J	KZ56JDL	05/29/07
25	Y3-RC02-S	KZ56K	KZ56KDL	05/29/07
26	Y3-RC06-S	KZ56M	KZ56MDL	05/29/07
27				
28				
29				
30				

COMMENTS:

FORM IV SV

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS2

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No: KZ56

Project: THEA FOSS OMMP YEAR

Lab File ID: LB02MB

Date Extracted: 06/01/07

Instrument ID: NT6

Date Analyzed: 06/06/07

Matrix: SOLID

Time Analyzed: 0951

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	KZ56LCSS2	KZ56LCSS2	LB02SB	06/06/07
02	Y3-RC04-S	KZ56NRE	KZ56NRE	06/06/07
03	Y3-RC04-S	KZ56NRE	KZ56NRDL	06/06/07
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

Instrument ID: NT6 Project: THEA FOSS OMMP YEAR

DFTPP Injection Date: 05/03/07 DFTPP Injection Time: 1033

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	57.2
68	Less than 2.0% of mass 69	0.3 (0.6)1
69	Mass 69 relative abundance	54.0
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	58.0
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 0.75% of mass 198	2.80
441	Present, but less than mass 443	13.1
442	40.0 - 110.0% of mass 198	95.8
443	15.0 - 24.0% of mass 442	18.5 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN 25	ABN 25	0250503	05/03/07	1033
02	ABN 40	ABN 40	0400503	05/03/07	1105
03	ABN 5	ABN 5	0050503	05/03/07	1138
04	ABN 30	ABN 30	0300503	05/03/07	1211
05	ABN 1	ABN 1	0010503	05/03/07	1243
06	ABN 10	ABN 10	0100503	05/03/07	1316
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

Instrument ID: NT6 Project: THEA FOSS OMMP YEAR

DFTPP Injection Date: 05/25/07 DFTPP Injection Time: 1059

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	58.9
68	Less than 2.0% of mass 69	0.5 (1.0)1
69	Mass 69 relative abundance	55.9
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	25.0 - 75.0% of mass 198	59.3
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 0.75% of mass 198	2.92
441	Present, but less than mass 443	13.1
442	40.0 - 110.0% of mass 198	95.7
443	15.0 - 24.0% of mass 442	19.9 (20.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0525	05/25/07	1059
02	KZ56MBW1	KZ56MBW1	KZ60MB	05/25/07	1206
03	KZ56LCSW1	KZ56LCSW1	KZ60SB	05/25/07	1240
04	KZ56LCSDW1	KZ56LCSDW1	KZ60SBD	05/25/07	1313
05	Y3-RB-01	KZ56O	KZ56O	05/25/07	1525
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

Instrument ID: NT6 Project: THEA FOSS OMMP YEAR

DFTPP Injection Date: 05/26/07 DFTPP Injection Time: 0930

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	59.2	
68	Less than 2.0% of mass 69	0.3	(0.5)1
69	Mass 69 relative abundance	55.5	
70	Less than 2.0% of mass 69	0.4	(0.6)1
127	25.0 - 75.0% of mass 198	59.2	
197	Less than 1.0% of mass 198	0.2	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.8	
275	10.0 - 30.0% of mass 198	21.5	
365	Greater than 0.75% of mass 198	2.98	
441	Present, but less than mass 443	13.1	
442	40.0 - 110.0% of mass 198	95.4	
443	15.0 - 24.0% of mass 442	18.3	(19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0526	05/26/07	0930
02	KZ56MBS1	KZ56MBS1	KZ56MB	05/26/07	1255
03	KZ56LCSS1	KZ56LCSS1	KZ56SB	05/26/07	1329
04	KZ56LCSDS1	KZ56LCSDS1	KZ56SBD	05/26/07	1402
05	Y3-RC08-S	KZ56H	KZ56H	05/26/07	1710
06	Y3-RC08-S MS	KZ56HMS	KZ56HMS	05/26/07	1743
07	Y3-RC08-S MSD	KZ56HMSD	KZ56HMSD	05/26/07	1816
08	Y3-RC11-S	KZ56A	KZ56A	05/26/07	1848
09	Y3-RC01-S	KZ56B	KZ56B	05/26/07	1921
10	Y3-RC13-S	KZ56C	KZ56C	05/26/07	1953
11	Y3-RC14-S	KZ56D	KZ56D	05/26/07	2026
12	Y3-RC10-S	KZ56E	KZ56E	05/26/07	2059
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

Instrument ID: NT6 Project: THEA FOSS OMMP YEAR

DFTPP Injection Date: 05/29/07 DFTPP Injection Time: 0847

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	61.5	
68	Less than 2.0% of mass 69	0.9	(1.6)1
69	Mass 69 relative abundance	55.5	
70	Less than 2.0% of mass 69	0.5	(0.8)1
127	25.0 - 75.0% of mass 198	59.2	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.3	
275	10.0 - 30.0% of mass 198	20.8	
365	Greater than 0.75% of mass 198	3.10	
441	Present, but less than mass 443	14.4	
442	40.0 - 110.0% of mass 198	94.6	
443	15.0 - 24.0% of mass 442	17.8	(18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0529	05/29/07	0847
02	Y3-RC11-S	KZ56A	KZ56ADL	05/29/07	0920
03	Y3-RC01-S	KZ56B	KZ56BDL	05/29/07	0953
04	Y3-RC13-S	KZ56C	KZ56CDL	05/29/07	1026
05	Y3-RC05-S	KZ56F	KZ56FDL	05/29/07	1059
06	Y3-RC07-S	KZ56G	KZ56G2	05/29/07	1132
07	Y3-RC15-S	KZ56I	KZ56I	05/29/07	1205
08	Y3-RC09-S	KZ56J	KZ56J	05/29/07	1239
09	Y3-RC02-S	KZ56K	KZ56K	05/29/07	1312
10	Y3-RC12-S	KZ56L	KZ56L	05/29/07	1346
11	Y3-RC06-S	KZ56M	KZ56M	05/29/07	1420
12	Y3-RC04-S	KZ56N	KZ56N	05/29/07	1453
13	Y3-RC03-S	KZ56P	KZ56P	05/29/07	1526
14	Y3-RC15-S	KZ56I	KZ56IDL	05/29/07	1600
15	Y3-RC09-S	KZ56J	KZ56JDL	05/29/07	1632
16	Y3-RC02-S	KZ56K	KZ56KDL	05/29/07	1706
17	Y3-RC06-S	KZ56M	KZ56MDL	05/29/07	1738
18					
19					
20					
21					
22					

FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

Instrument ID: NT6 Project: THEA FOSS OMMP YEAR

DFTPP Injection Date: 06/06/07 DFTPP Injection Time: 0814

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	60.5	
68	Less than 2.0% of mass 69	0.5	(0.9)1
69	Mass 69 relative abundance	57.4	
70	Less than 2.0% of mass 69	0.5	(0.8)1
127	25.0 - 75.0% of mass 198	58.8	
197	Less than 1.0% of mass 198	0.2	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.8	
275	10.0 - 30.0% of mass 198	20.2	
365	Greater than 0.75% of mass 198	2.97	
441	Present, but less than mass 443	12.9	
442	40.0 - 110.0% of mass 198	87.7	
443	15.0 - 24.0% of mass 442	16.3	(18.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC0606	06/06/07	0814
02	KZ56MBS2	KZ56MBS2	LB02MB	06/06/07	0951
03	KZ56LCSS2	KZ56LCSS2	LB02SB	06/06/07	1024
04	Y3-RC04-S	KZ56NRE	KZ56NRE	06/06/07	1626
05	Y3-RC04-S	KZ56NRE	KZ56NRDL	06/06/07	1805
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0525 — Date Analyzed: 05/25/07

Instrument ID: NT6 — Time Analyzed: 1059

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	198067	6.89	714729	8.91	346560	11.74
	UPPER LIMIT	396134	7.39	1429458	9.41	693120	12.24
	LOWER LIMIT	99034	6.39	357364	8.41	173280	11.24
	CLIENT SAMP. NO.						
01	KZ56MBW1	213296	6.89	791180	8.90	398582	11.74
02	KZ56LCSW1	203154	6.89	739031	8.90	336199	11.74
03	KZ56LCSDW1	206641	6.89	744465	8.90	343590	11.74
04	Y3-RB-01	213631	6.88	784837	8.90	393306	11.73
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0525 — Date Analyzed: 05/25/07

Instrument ID: NT6 — Time Analyzed: 1059

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	502123	14.09	340564	18.37	376651	20.51
	UPPER LIMIT	1004246	14.59	681128	18.87	753302	21.01
	LOWER LIMIT	251062	13.59	170282	17.87	188326	20.01
	CLIENT SAMP. NO.						
01	KZ56MBW1	556085	14.09	388772	18.37	397985	20.51
02	KZ56LCSW1	500051	14.09	339117	18.37	392364	20.51
03	KZ56LCSDW1	503826	14.09	361122	18.37	379203	20.51
04	Y3-RB-01	547600	14.09	398168	18.36	398777	20.50
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0525 — Date Analyzed: 05/25/07

Instrument ID: NT6 — Time Analyzed: 1059

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	567119	19.59				
	UPPER LIMIT	1134238	20.09				
	LOWER LIMIT	283560	19.09				
	CLIENT SAMP. NO.						
01	KZ56MBW1	611353	19.59				
02	KZ56LCSW1	573856	19.59				
03	KZ56LCSDW1	569548	19.59				
04	Y3-RB-01	619287	19.58				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-3

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0526 — Date Analyzed: 05/26/07

Instrument ID: NT6 — Time Analyzed: 0930

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	216988	6.88	799420	8.90	390056	11.73
	UPPER LIMIT	433976	7.38	1598840	9.40	780112	12.23
	LOWER LIMIT	108494	6.38	399710	8.40	195028	11.23
	CLIENT SAMP. NO.						
01	KZ56MBS1	225962	6.89	819966	8.90	415980	11.73
02	KZ56LCSS1	212514	6.88	760621	8.90	349536	11.73
03	KZ56LCSDS1	214734	6.88	780731	8.90	362202	11.73
04	Y3-RC08-S	216197	6.89	761566	8.90	364274	11.74
05	Y3-RC08-S MS	197867	6.88	694910	8.90	339685	11.74
06	Y3-RC08-S MS	204169	6.89	716085	8.90	347128	11.74
07	Y3-RC11-S	203194	6.89	699128	8.90	328146	11.74
08	Y3-RC01-S	184496	6.89	660753	8.90	318828	11.74
09	Y3-RC13-S	207712	6.89	753784	8.91	365908	11.74
10	Y3-RC14-S	206315	6.89	723564	8.91	356612	11.75
11	Y3-RC10-S	222676	6.89	797530	8.91	399979	11.74
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0526 — Date Analyzed: 05/26/07

Instrument ID: NT6 — Time Analyzed: 0930

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	573879	14.08	366829	18.37	621709	19.59
	UPPER LIMIT	1147758	14.58	733658	18.87	1243418	20.09
	LOWER LIMIT	286940	13.58	183414	17.87	310854	19.09
	CLIENT SAMP. NO.						
01	KZ56MBS1	579171	14.08	432110	18.36	680250	19.58
02	KZ56LCSS1	510914	14.09	369429	18.36	604119	19.58
03	KZ56LCSDS1	530520	14.09	378626	18.36	625062	19.58
04	Y3-RC08-S	446314	14.09	367647	18.38	571803	19.61
05	Y3-RC08-S MS	443615	14.09	384787	18.38	597782	19.61
06	Y3-RC08-S MS	445087	14.09	379842	18.39	569409	19.61
07	Y3-RC11-S	425001	14.09	355576	18.41	513441	19.63
08	Y3-RC01-S	427653	14.10	337449	18.40	540662	19.63
09	Y3-RC13-S	454227	14.10	347940	18.40	524962	19.62
10	Y3-RC14-S	472546	14.10	405590	18.40	613256	19.62
11	Y3-RC10-S	504734	14.10	389996	18.39	589992	19.60
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0526 — Date Analyzed: 05/26/07

Instrument ID: NT6 — Time Analyzed: 0930

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	428868	20.51				
	UPPER LIMIT	857736	21.01				
	LOWER LIMIT	214434	20.01				
	CLIENT SAMP. NO.						
01	KZ56MBS1	445653	20.50				
02	KZ56LCSS1	473002	20.50				
03	KZ56LCSDS1	453661	20.50				
04	Y3-RC08-S	414746	20.54				
05	Y3-RC08-S MS	425301	20.54				
06	Y3-RC08-S MS	403137	20.55				
07	Y3-RC11-S	324770	20.57				
08	Y3-RC01-S	311862	20.57				
09	Y3-RC13-S	296315	20.56				
10	Y3-RC14-S	341159	20.55				
11	Y3-RC10-S	360128	20.54				
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-3

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0529 — Date Analyzed: 05/29/07

Instrument ID: NT6 — Time Analyzed: 0847

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	217686	6.80	775413	8.82	371068	11.66
	UPPER LIMIT	435372	7.30	1550826	9.32	742136	12.16
	LOWER LIMIT	108843	6.30	387706	8.32	185534	11.16
	CLIENT SAMP. NO.						
01	Y3-RC11-S	228052	6.80	813350	8.82	402936	11.65
02	Y3-RC01-S	233229	6.80	844285	8.82	424887	11.65
03	Y3-RC13-S	235542	6.81	854264	8.82	441049	11.65
04	Y3-RC05-S	227086	6.81	799898	8.82	403977	11.66
05	Y3-RC07-S	221303	6.81	785564	8.82	396898	11.66
06	Y3-RC15-S	199772	6.81	724544	8.82	374362	11.66
07	Y3-RC09-S	217767	6.81	768461	8.82	396918	11.66
08	Y3-RC02-S	212801	6.81	759046	8.83	387774	11.66
09	Y3-RC12-S	219630	6.81	786763	8.83	398320	11.66
10	Y3-RC06-S	224294	6.81	804967	8.82	409950	11.66
11	Y3-RC04-S	197078	6.81	699733	8.82	353654	11.66
12	Y3-RC03-S	226968	6.81	806448	8.82	409074	11.66
13	Y3-RC15-S	219869	6.81	777145	8.82	400570	11.66
14	Y3-RC09-S	222149	6.81	802352	8.82	412967	11.66
15	Y3-RC02-S	217465	6.81	770336	8.82	399100	11.66
16	Y3-RC06-S	198747	6.81	708240	8.82	375010	11.66
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0529 — Date Analyzed: 05/29/07

Instrument ID: NT6 — Time Analyzed: 0847

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	554165	14.00	436021	18.28	622369	20.42
	UPPER LIMIT	1108330	14.50	872042	18.78	1244738	20.92
	LOWER LIMIT	277082	13.50	218010	17.78	311184	19.92
	CLIENT SAMP. NO.						
01	Y3-RC11-S	566329	14.00	505698	18.29	556424	20.44
02	Y3-RC01-S	604498	14.00	499499	18.28	586227	20.43
03	Y3-RC13-S	612303	14.00	480501	18.30	511332	20.45
04	Y3-RC05-S	572997	14.00	520383	18.30	565687	20.45
05	Y3-RC07-S	522706	14.01	432415	18.30	452737	20.45
06	Y3-RC15-S	566367	14.01	469342	18.30	438267	20.46
07	Y3-RC09-S	543292	14.01	473573	18.30	448600	20.46
08	Y3-RC02-S	541157	14.01	445636	18.31	358842	20.47
09	Y3-RC12-S	539571	14.01	495938	18.30	429920	20.45
10	Y3-RC06-S	550429	14.01	460852	18.31	379907	20.47
11	Y3-RC04-S	504341	14.01	448647	18.30	336929	20.46
12	Y3-RC03-S	539221	14.01	464564	18.31	381451	20.46
13	Y3-RC15-S	571036	14.01	497812	18.30	391852	20.45
14	Y3-RC09-S	562443	14.01	481925	18.30	388553	20.45
15	Y3-RC02-S	562745	14.01	476405	18.30	353715	20.45
16	Y3-RC06-S	589653	14.01	488512	18.30	347587	20.45
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0529 — Date Analyzed: 05/29/07

Instrument ID: NT6 — Time Analyzed: 0847

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	773344	19.50				
	UPPER LIMIT	1546688	20.00				
	LOWER LIMIT	386672	19.00				
	CLIENT SAMP. NO.						
01	Y3-RC11-S	798012	19.52				
02	Y3-RC01-S	853358	19.52				
03	Y3-RC13-S	743570	19.52				
04	Y3-RC05-S	809872	19.52				
05	Y3-RC07-S	654477	19.52				
06	Y3-RC15-S	702278	19.53				
07	Y3-RC09-S	710011	19.53				
08	Y3-RC02-S	684317	19.54				
09	Y3-RC12-S	748632	19.53				
10	Y3-RC06-S	684311	19.53				
11	Y3-RC04-S	671567	19.53				
12	Y3-RC03-S	692886	19.53				
13	Y3-RC15-S	740616	19.53				
14	Y3-RC09-S	720057	19.52				
15	Y3-RC02-S	747808	19.53				
16	Y3-RC06-S	766718	19.52				
17							
18							
19							
20							
21							
22							

IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-3

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0606 — Date Analyzed: 06/06/07

Instrument ID: NT6 — Time Analyzed: 0814

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	210566	6.18	738477	8.20	362869	11.01
	UPPER LIMIT	421132	6.68	1476954	8.70	725738	11.51
	LOWER LIMIT	105283	5.68	369238	7.70	181434	10.51
	CLIENT SAMP. NO.						
01	KZ56MBS2	214996	6.18	781327	8.20	406280	11.00
02	KZ56LCSS2	220632	6.18	778536	8.20	396782	11.01
03	Y3-RC04-S	231167	6.18	847946	8.20	455913	11.01
04	Y3-RC04-S	212523	6.18	760604	8.20	409588	11.01
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0606 — Date Analyzed: 06/06/07

Instrument ID: NT6 — Time Analyzed: 0814

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	499867	13.33	387597	17.55	508340	19.66
	UPPER LIMIT	999734	13.83	775194	18.05	1016680	20.16
	LOWER LIMIT	249934	12.83	193798	17.05	254170	19.16
	CLIENT SAMP. NO.						
01	KZ56MBS2	576710	13.32	427641	17.54	463547	19.66
02	KZ56LCSS2	559692	13.32	417339	17.55	503076	19.66
03	Y3-RC04-S	676586	13.33	597557	17.58	577364	19.72
04	Y3-RC04-S	639395	13.33	596562	17.56	601188	19.68
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Cont. Calib. ID: CC0606 — Date Analyzed: 06/06/07

Instrument ID: NT6 — Time Analyzed: 0814

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	653887	18.84				
	UPPER LIMIT	1307774	19.34				
	LOWER LIMIT	326944	18.34				
	CLIENT SAMP. NO.						
01	KZ56MBS2	692827	18.84				
02	KZ56LCSS2	680031	18.84				
03	Y3-RC04-S	911146	18.88				
04	Y3-RC04-S	960112	18.86				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-3

Semivolatile Organics
Sample Data

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC11-S
SAMPLE

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 18:48
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 46.6%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	60	120
91-57-6	2-Methylnaphthalene	60	48 J
208-96-8	Acenaphthylene	60	< 60 U
83-32-9	Acenaphthene	60	60
132-64-9	Dibenzofuran	60	< 60 U
86-73-7	Fluorene	60	52 J
85-01-8	Phenanthrene	60	630
120-12-7	Anthracene	60	150
206-44-0	Fluoranthene	60	1,500
129-00-0	Pyrene	60	1,400
56-55-3	Benzo(a)anthracene	60	610
117-81-7	bis(2-Ethylhexyl)phthalate	60	5,400 E
218-01-9	Chrysene	60	1,000
205-99-2	Benzo(b)fluoranthene	60	1,300
207-08-9	Benzo(k)fluoranthene	60	980
50-32-8	Benzo(a)pyrene	60	750
193-39-5	Indeno(1,2,3-cd)pyrene	60	350
53-70-3	Dibenz(a,h)anthracene	60	79
191-24-2	Benzo(g,h,i)perylene	60	380

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.4%	2-Fluorobiphenyl	71.8%
d14-p-Terphenyl	65.2%	d4-1,2-Dichlorobenzene	61.3%
d5-Phenol	63.5%	2-Fluorophenol	50.1%
2,4,6-Tribromophenol	66.3%	d4-2-Chlorophenol	62.0%

FORM I

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56a.d
Lab Smp Id: KZ56A Client Smp ID: Y3-RC11-S
Inj Date : 26-MAY-2007 18:48
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56A,3
Misc Info : 07-9547
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 8
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LTK 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	~~1000~~.00000	Volume of final extract (uL)
Ws	94.10000	Weight of sample extracted (g)
M	46.60000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.000	4.981	(0.726)	115636	6.25948	373.7
$ 2 Phenol-d5	99	6.523	6.514	(0.947)	172061	7.93791	473.9
3 Phenol	94	6.544	6.536	(0.950)	16894	0.70996 LDL	42.39
$ 5 2-Chlorophenol-d4	132	6.603	6.595	(0.959)	116223	7.75453	463.0
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.886	6.883	(1.000)	203194	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.180	7.177	(1.043)	46831	5.10980	305.1
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.805	7.807	(0.877)	97662	5.87062	350.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.654	8.763	(0.972)	17882	1.87103 LOL	111.7(MH)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.900	8.902	(1.000)	699128	20.0000	
	28 Naphthalene	128	8.932	8.934	(1.004)	80508	1.94412	116.1
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	10.049	10.046	(1.129)	16828	0.79942 LOL	47.73(M)
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.700	10.703	(0.911)	132439	5.98006	357.0
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.742	11.734	(1.000)	328146	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.785	11.787	(1.004)	20725	1.00086	59.75
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	12.602	12.610	(1.073)	19219	0.91430 LOL	54.59(M)
	49 Fluorene	166	12.602	12.599	(1.073)	19047	0.86591 ↓	51.70(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.029	13.021	(1.110)	27705	8.29294	495.1
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.092	14.084	(1.000)	425001	20.0000	
	60 Phenanthrene	178	14.130	14.122	(1.003)	299435	10.5572	630.3
	61 Anthracene	178	14.199	14.196	(1.008)	74494	2.54191	151.8
	62 Carbazole	167	14.504	14.496	(1.029)	55286	2.19231	130.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.268	15.249	(1.083)	32934	1.05894	63.22
64 Fluoranthene	202	16.074	16.045	(1.141)	691849	25.7095	1535
65 Pyrene	202	16.416	16.392	(0.892)	709065	24.0330	1435
$ 66 Terphenyl-d14	244	16.758	16.734	(0.910)	101421	5.42834	324.1
67 Butylbenzylphthalate	149	17.666	17.642	(0.960)	63651	4.58841	273.9(M)
68 Benzo(a)anthracene	228	18.382	18.342	(0.999)	270272	10.1755	607.5
* 69 Chrysene-d12	240	18.409	18.369	(1.000)	355576	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.446	18.406	(1.002)	452280	16.8327	1005
72 bis(2-Ethylhexyl)phthalate	149	18.697	18.657	(0.952)	1578918	89.7825 E	5360
* 134 Di-n-octylphthalate-d4	153	19.632	19.587	(1.000)	513441	20.0000	
73 Di-n-octylphthalate	149	19.643	19.592	(1.001)	138339	4.53540	270.8(M)
74 Benzo(b)fluoranthene	252	20.054	19.987	(0.975)	447349	21.2443	1268(M)
75 Benzo(k)fluoranthene	252	20.065	20.019	(0.975)	330902	16.3581	976.6(M)
76 Benzo(a)pyrene	252	20.492	20.425	(0.996)	264142	12.5323	748.2
* 77 Perylene-d12	264	20.573	20.505	(1.000)	324770	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.935	21.852	(1.066)	146853	5.89335	351.8
79 Dibenzo(a,h)anthracene	278	21.956	21.884	(1.067)	27269	1.32127	78.88(M)
80 Benzo(g,h,i)perylene	276	22.261	22.178	(1.082)	144253	6.31933	377.3
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	10.214	10.217	(1.148)	10818	0.53401 LDL	31.88(M)
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56a.d
Lab Smp Id: KZ56A
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9547

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC11-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	203194	-6.36
27 Naphthalene-d8	799420	399710	1598840	699128	-12.55
42 Acenaphthene-d10	390056	195028	780112	328146	-15.87
59 Phenanthrene-d10	573879	286940	1147758	425001	-25.94
69 Chrysene-d12	366829	183414	733658	355576	-3.07
134 Di-n-octylphthala	621709	310854	1243418	513441	-17.41
77 Perylene-d12	428868	214434	857736	324770	-24.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.04
27 Naphthalene-d8	8.90	8.40	9.40	8.90	-0.03
42 Acenaphthene-d10	11.73	11.23	12.23	11.74	0.07
59 Phenanthrene-d10	14.08	13.58	14.58	14.09	0.06
69 Chrysene-d12	18.37	17.87	18.87	18.41	0.22
134 Di-n-octylphthala	19.59	19.09	20.09	19.63	0.23
77 Perylene-d12	20.51	20.01	21.01	20.57	0.33

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

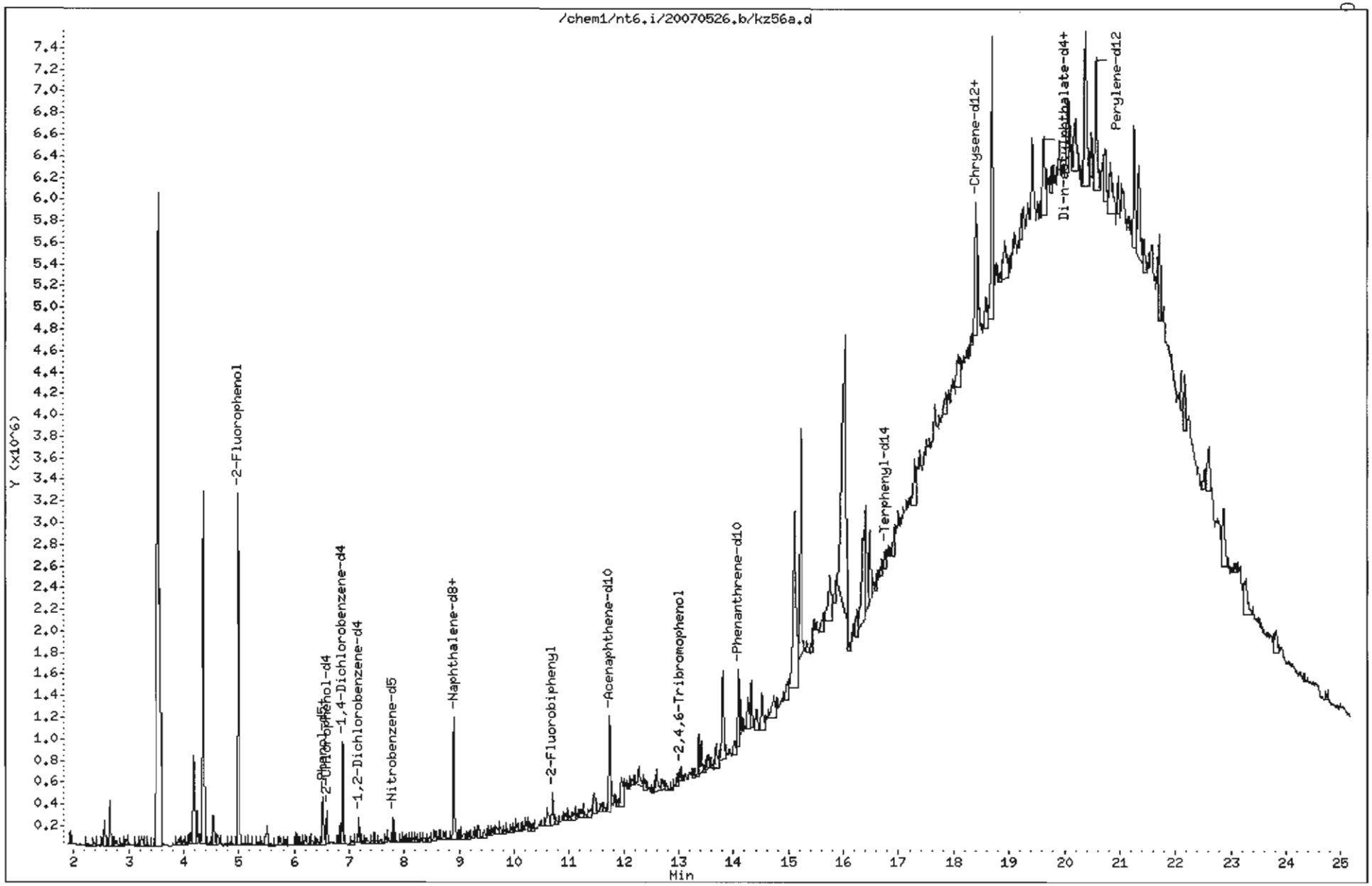
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56A
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9547

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC11-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	746.3	373.7	50.08	22-91
$ 2 Phenol-d5	746.3	473.9	63.50	26-99
$ 5 2-Chlorophenol-d4	746.3	463.0	62.04	29-96
$ 10 1,2-Dichlorobenzen	497.5	305.1	61.32	24-87
$ 18 Nitrobenzene-d5	497.5	350.5	70.45	27-101
$ 36 2-Fluorobiphenyl	497.5	357.0	71.76	30-100
$ 55 2,4,6-Tribromophen	746.3	495.1	66.34	20-114
$ 66 Terphenyl-d14	497.5	324.1	65.14	12-120

Data File: /chem1/nt6.i/20070526.b/kz56a.d
Date : 26-MAY-2007 18:48
Client ID: Y3-RC11-S
Sample Info: KZ56A,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0195

Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

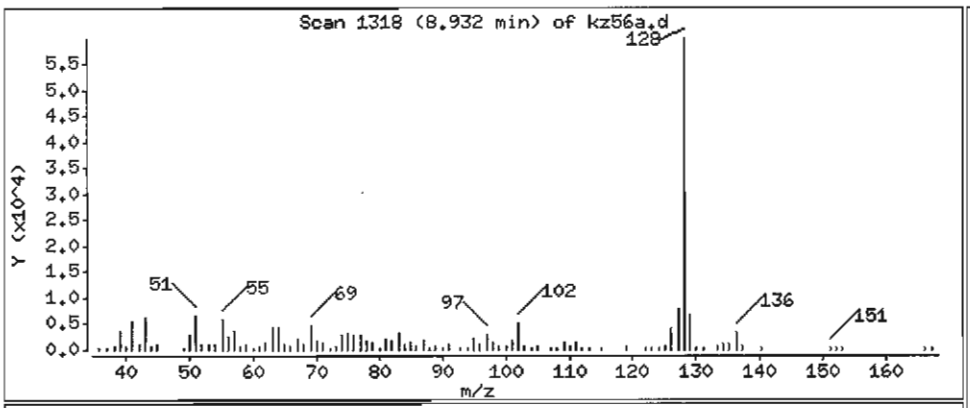
Operator: LJR/VTS

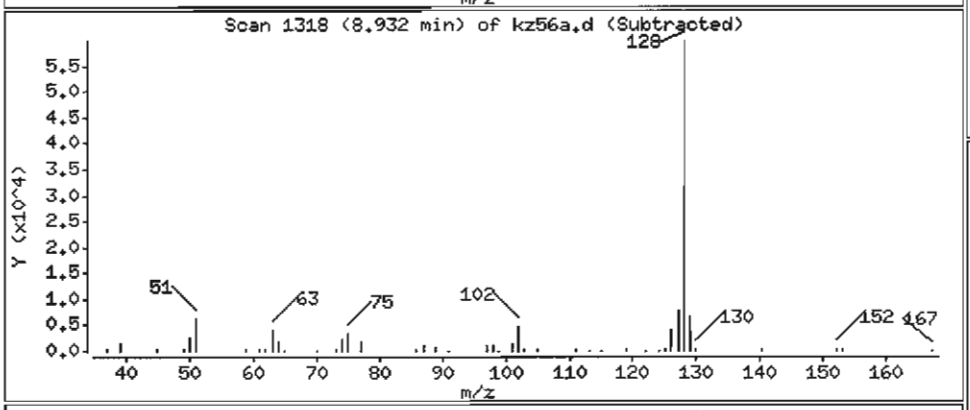
Column phase: ZB-5

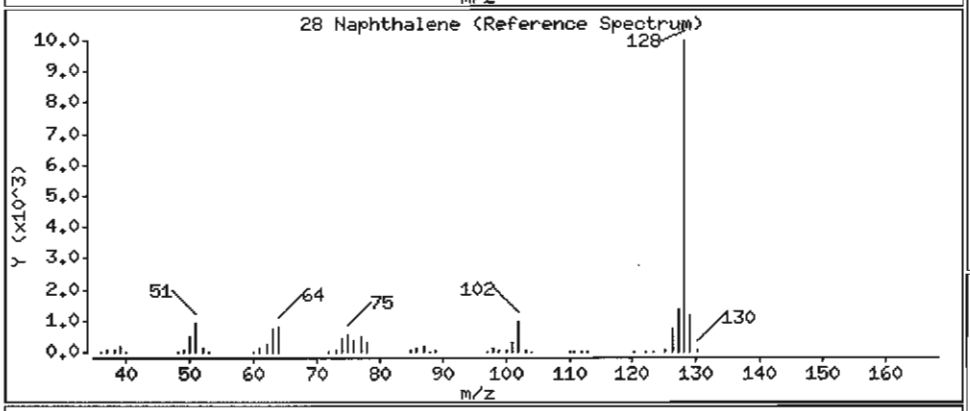
Column diameter: 0.32

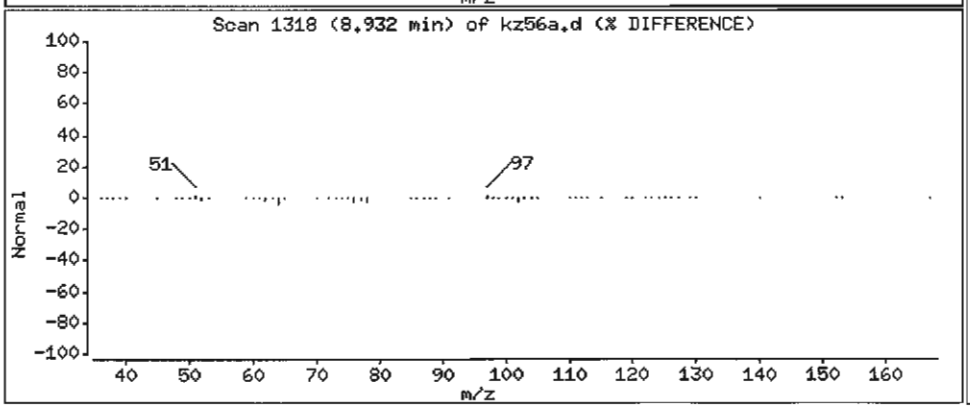
28 Naphthalene

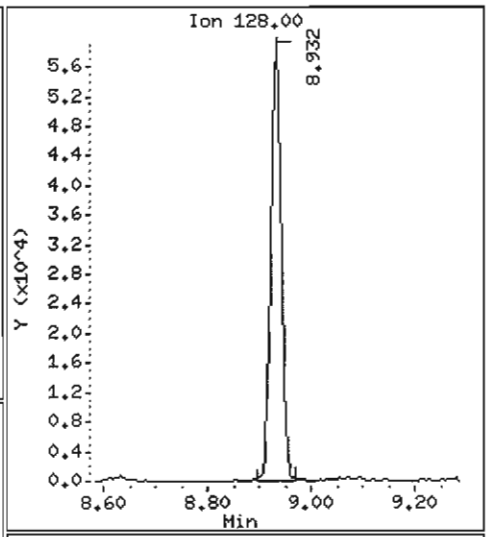
Concentration: 116.1 ug/kg

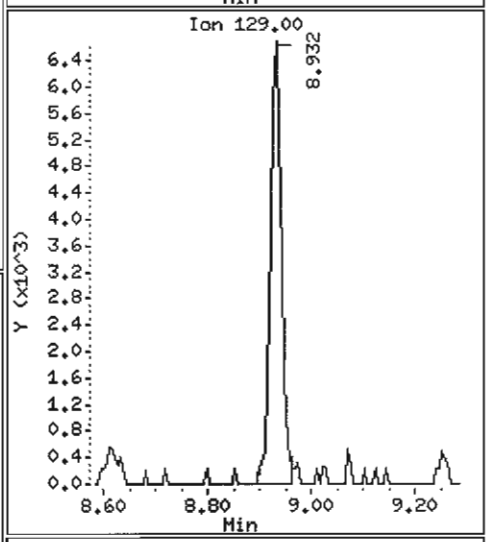


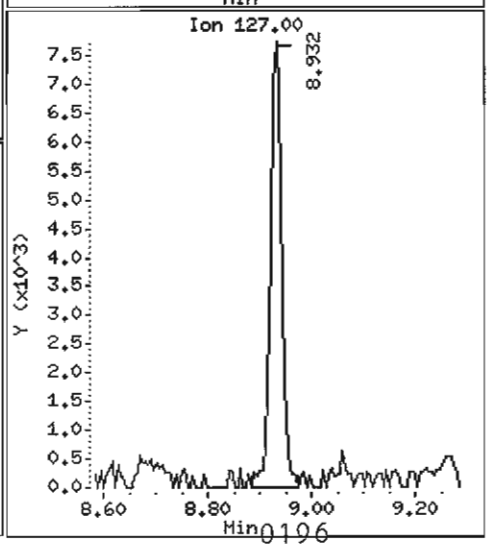












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

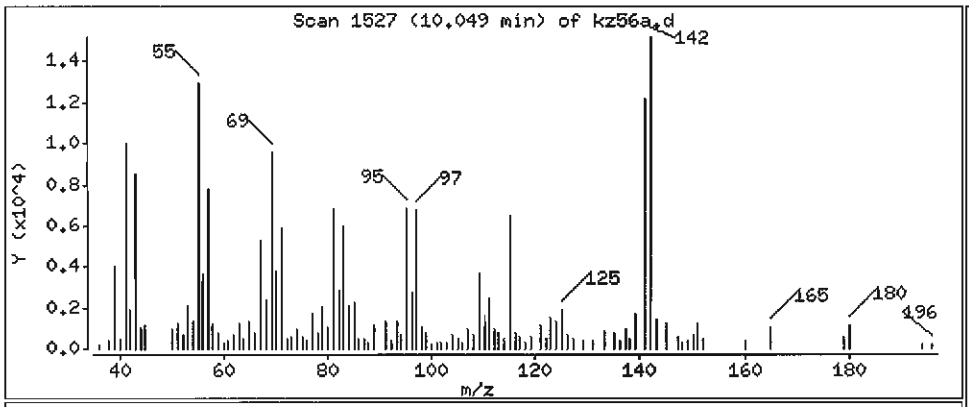
Operator: LJR/VTS

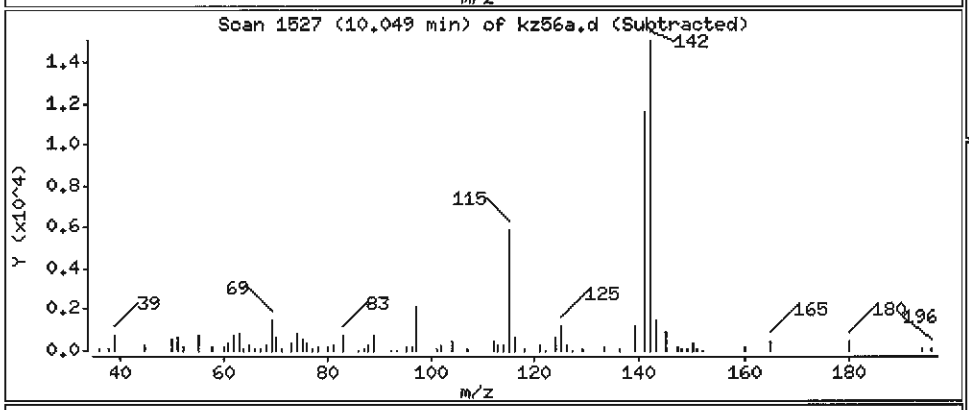
Column phase: ZB-5

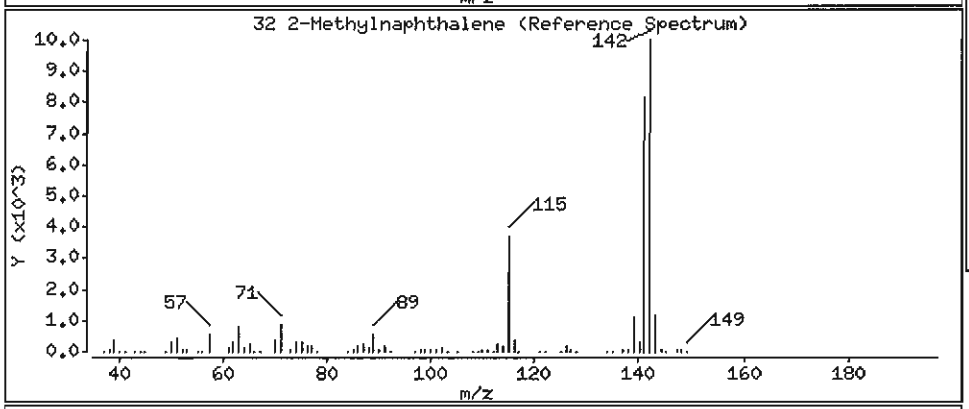
Column diameter: 0.32

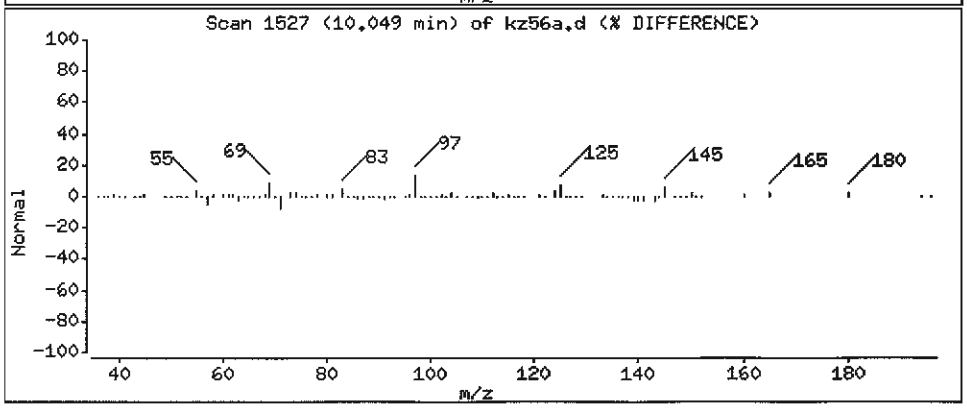
32 2-Methylnaphthalene

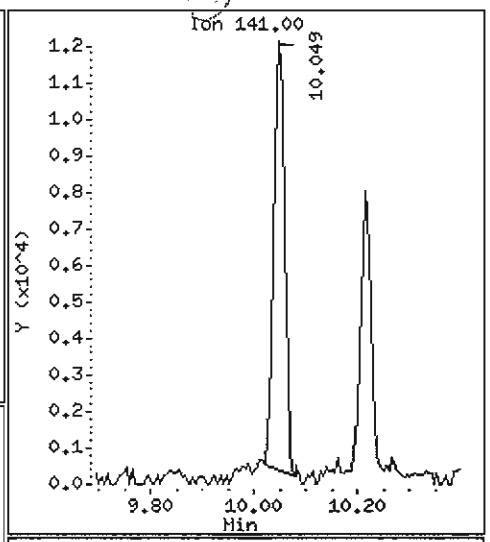
Concentration: 47.73 ug/kg

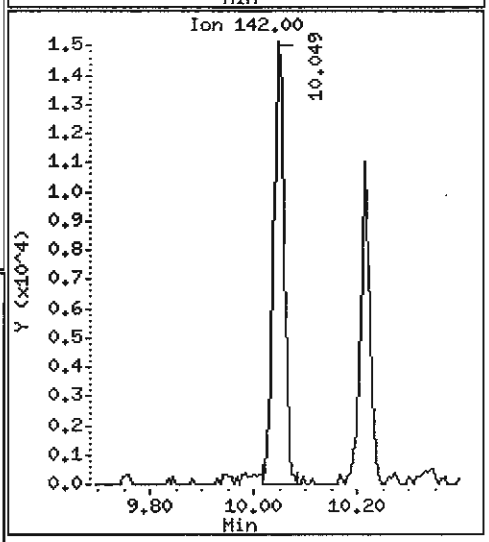












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

Column phase: ZB-5

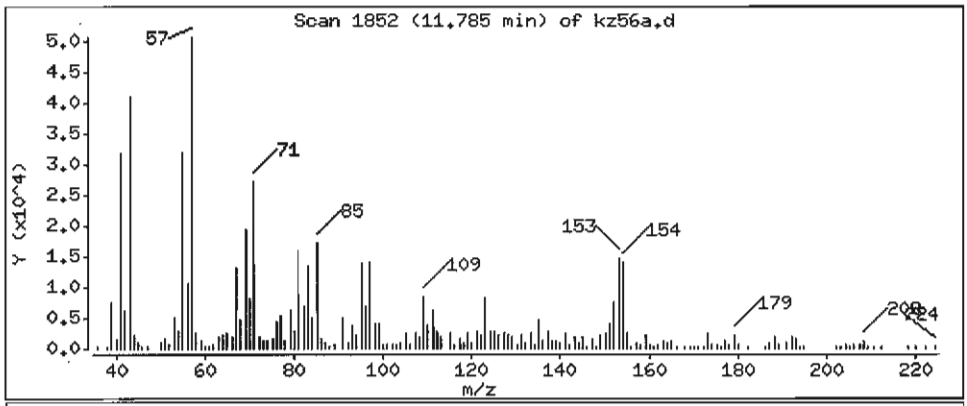
Column diameter: 0.32

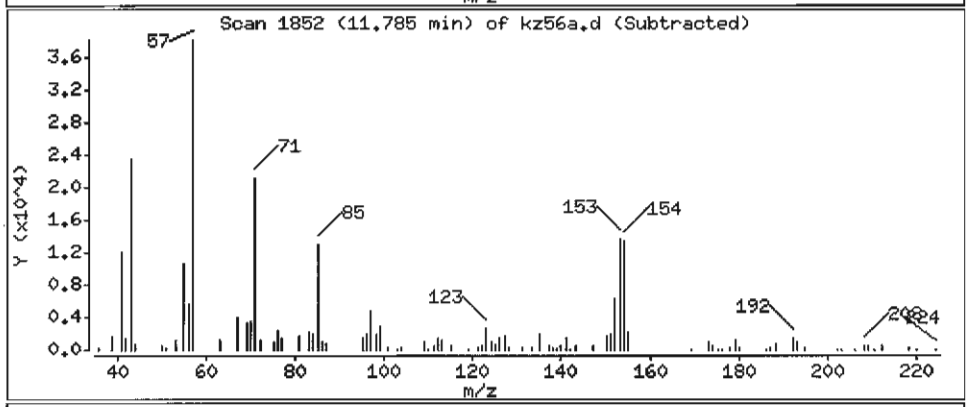
OK JPL

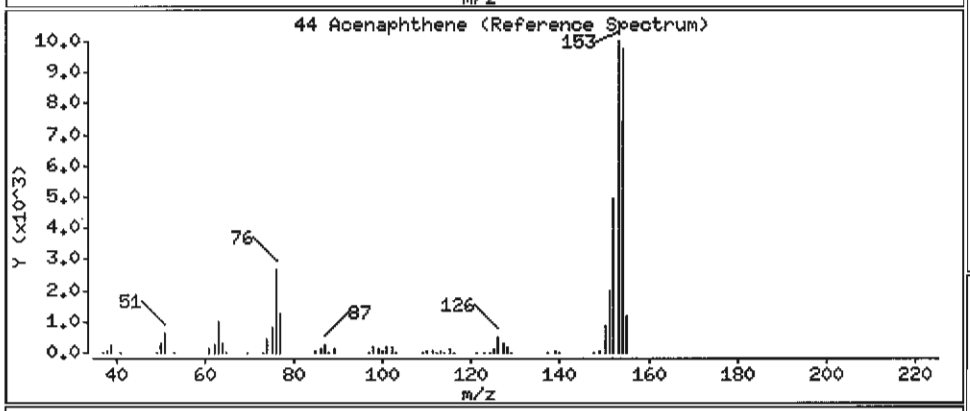
BM 5/31/07

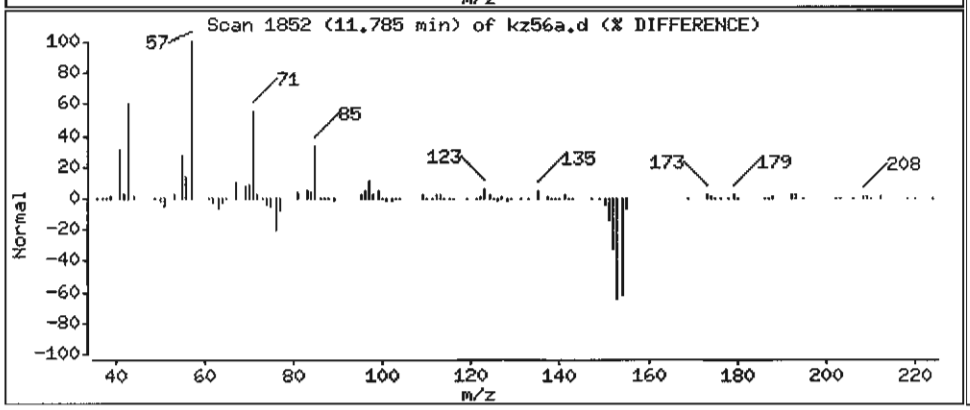
44 Acenaphthene

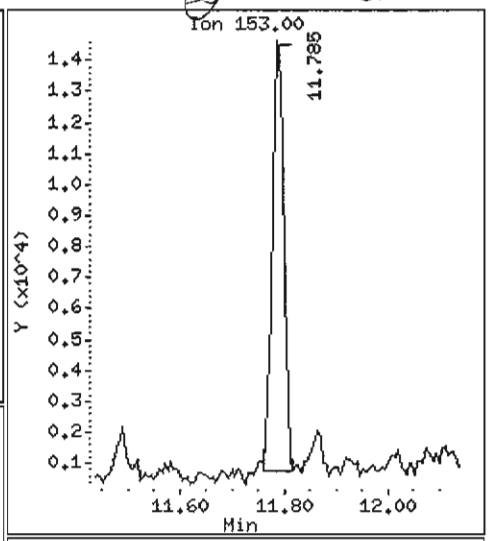
Concentration: 59.75 ug/kg

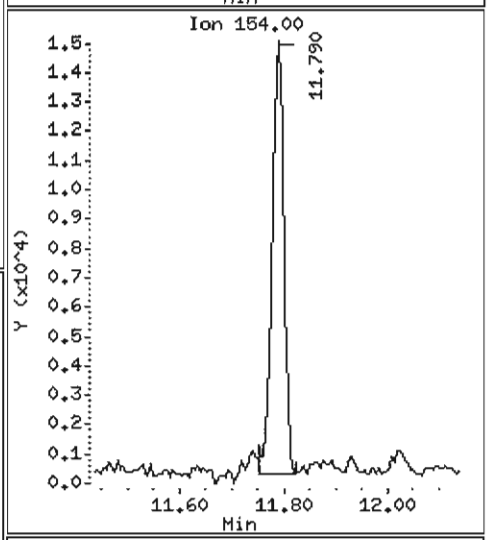


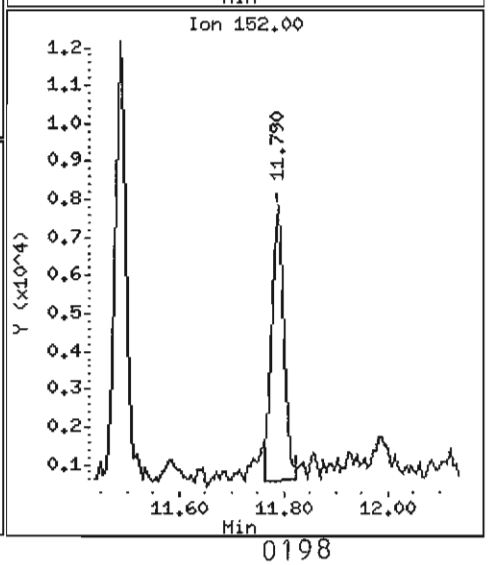












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

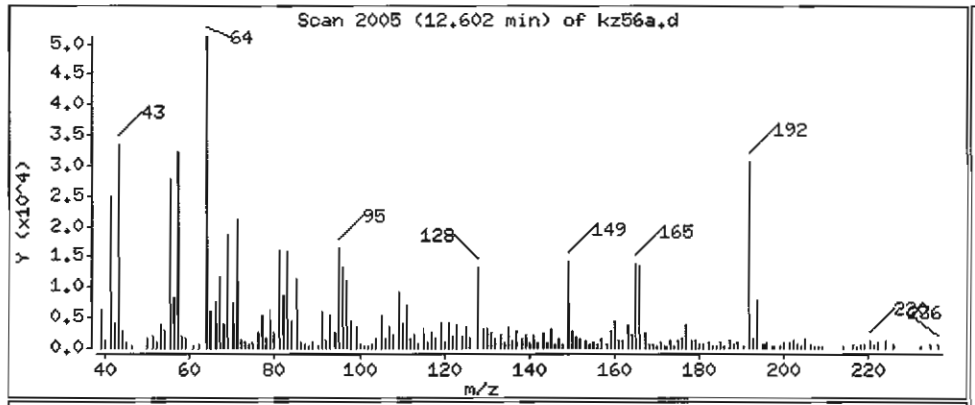
Column phase: ZB-5

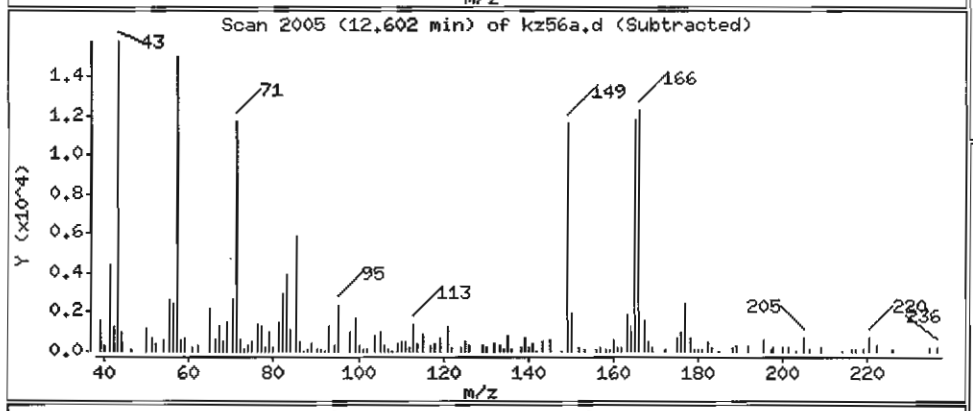
Column diameter: 0.32

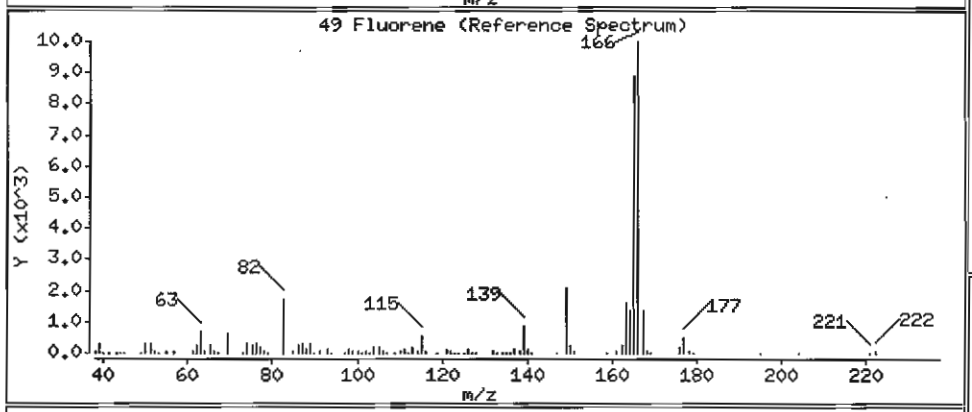
49 Fluorene

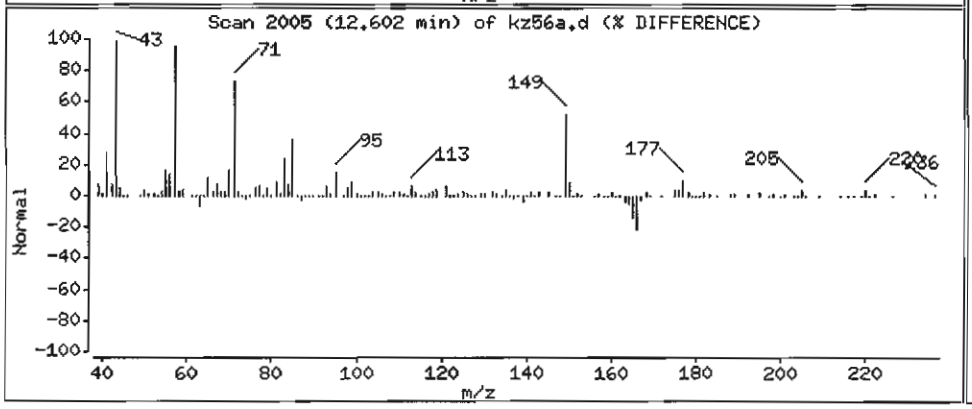
Concentration: 51.70 ug/kg

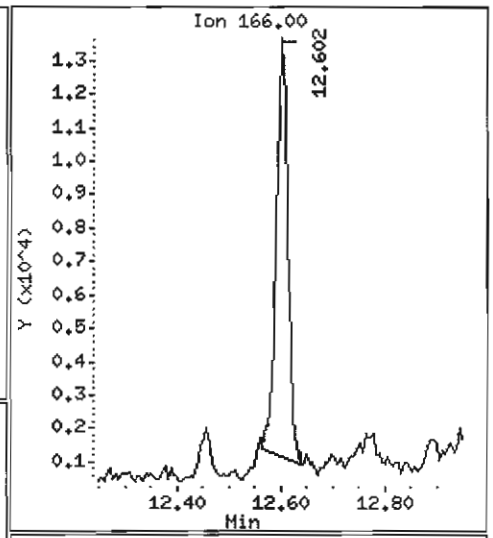
JLR

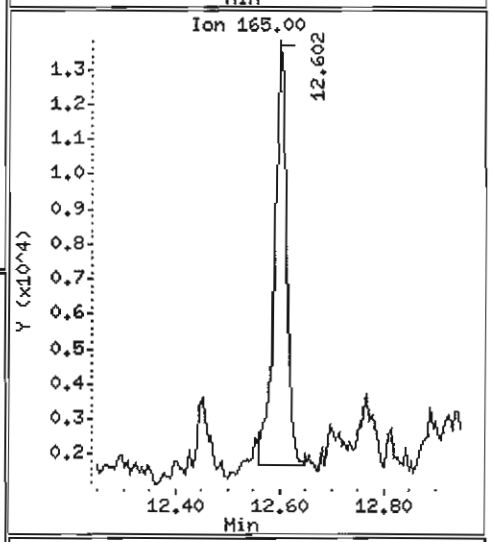


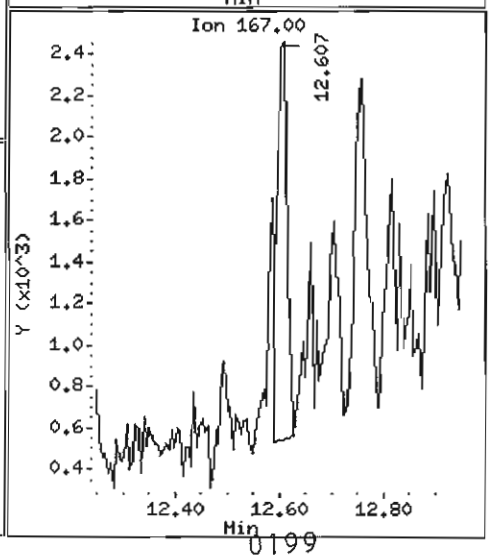












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

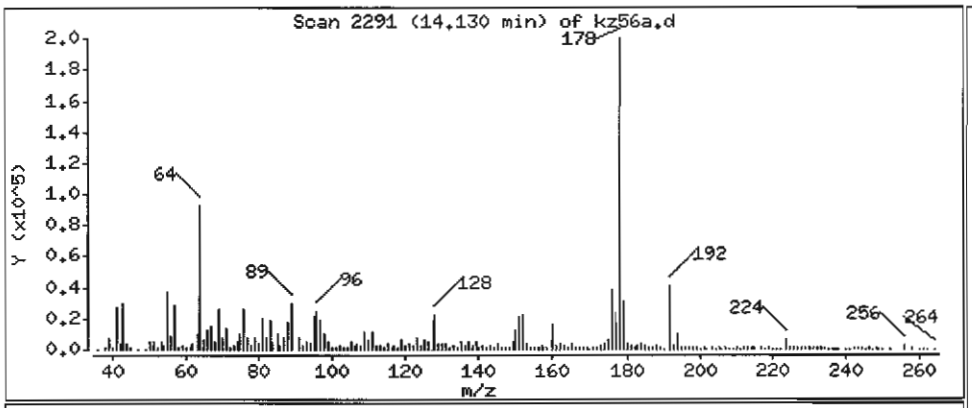
Operator: LJR/VTS

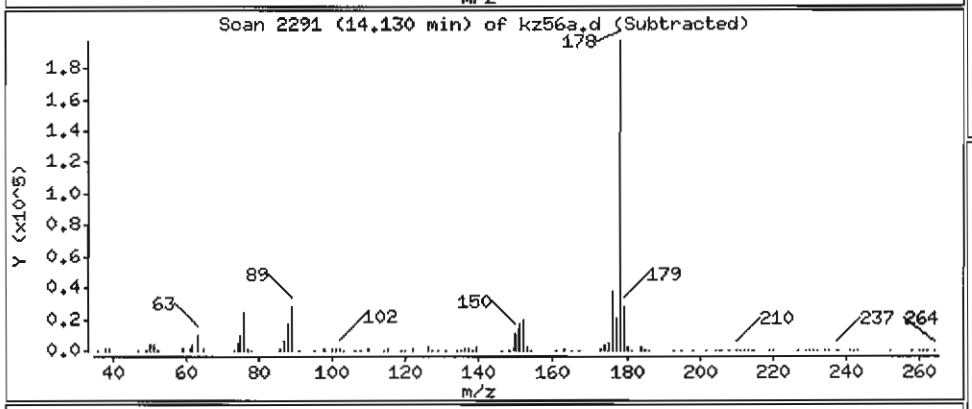
Column phase: ZB-5

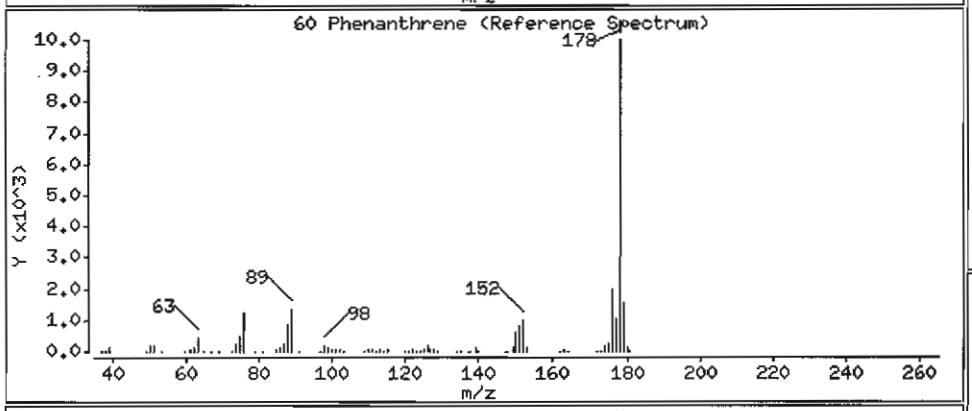
Column diameter: 0.32

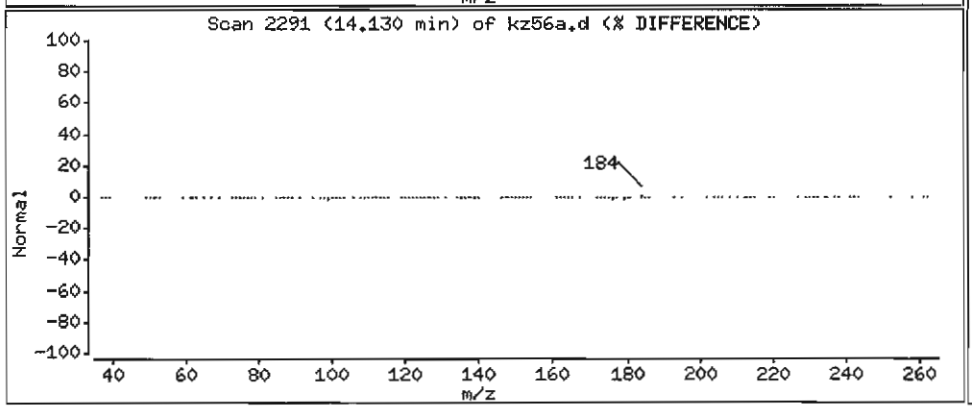
60 Phenanthrene

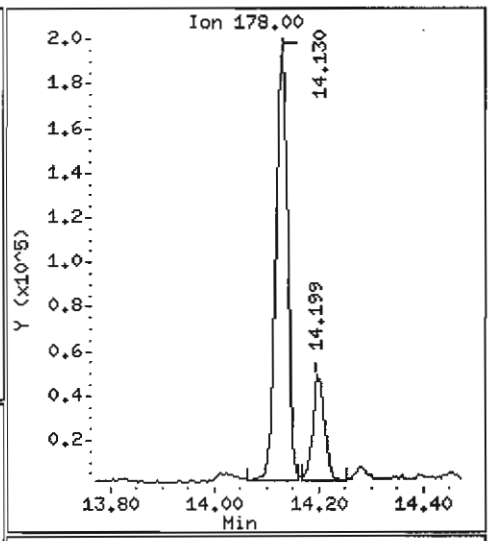
Concentration: 630.3 ug/kg

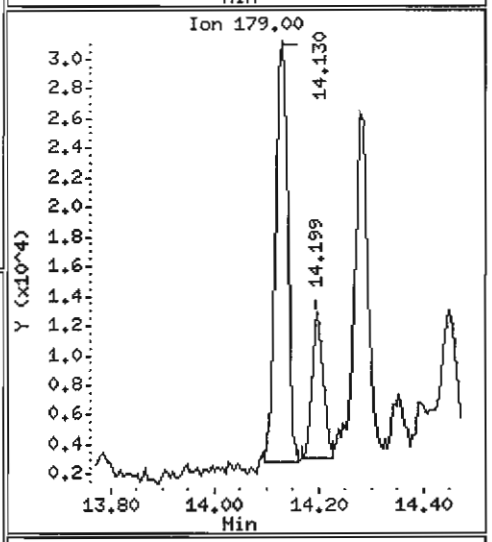


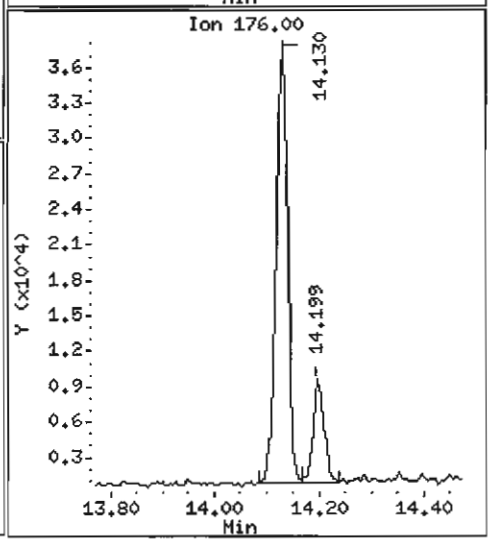












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

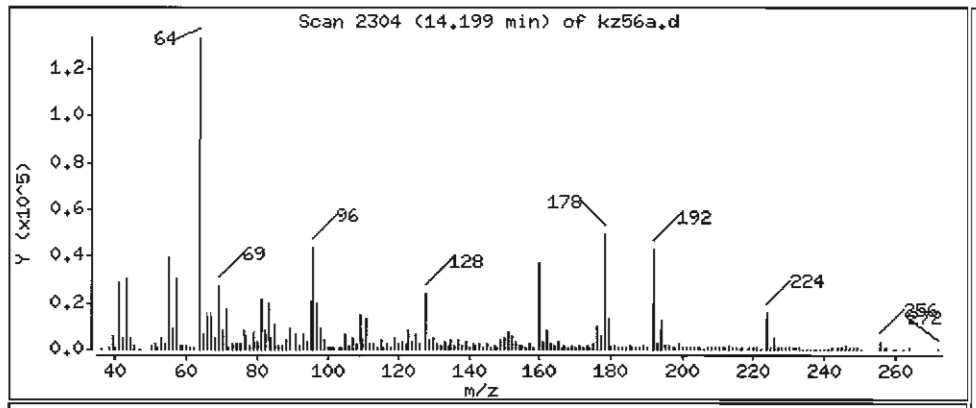
Operator: LJR/VTS

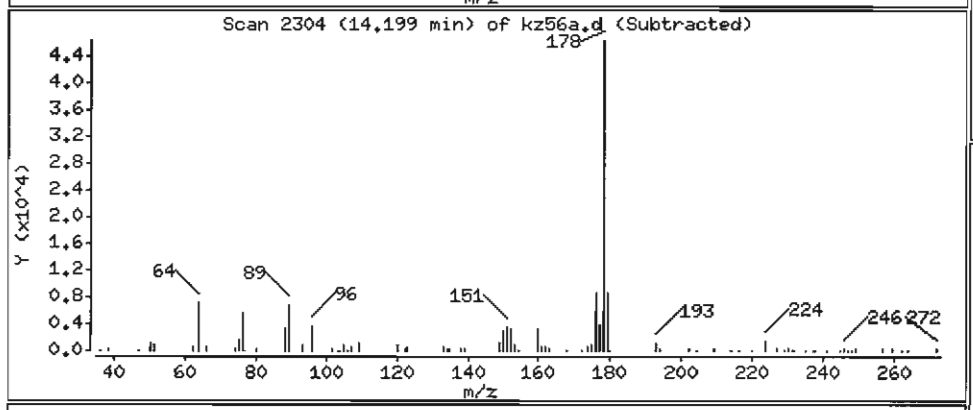
Column phase: ZB-5

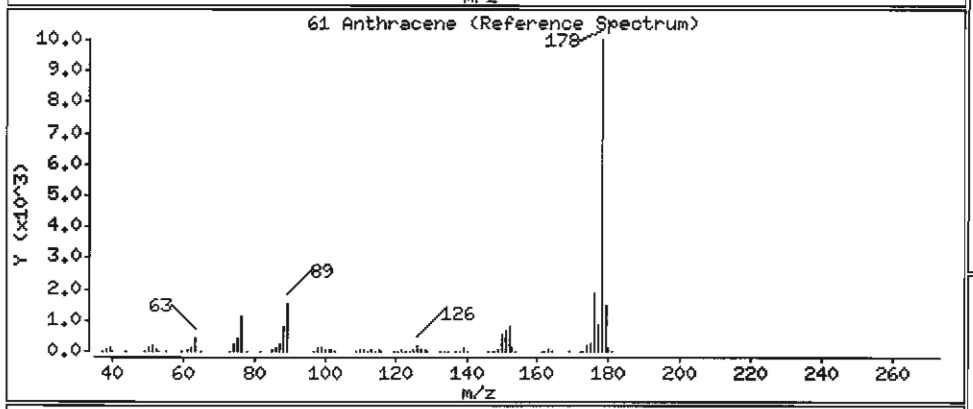
Column diameter: 0.32

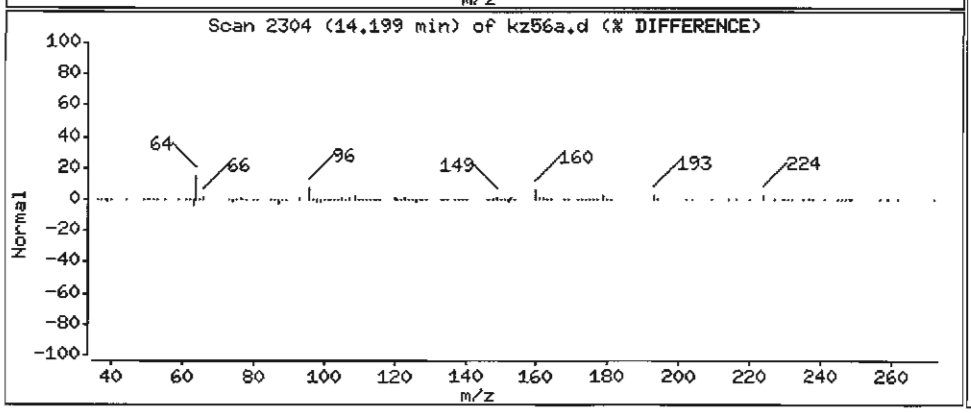
61 Anthracene

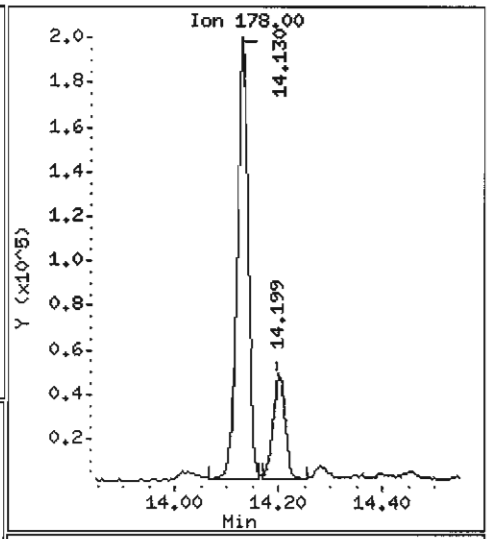
Concentration: 151.8 ug/kg

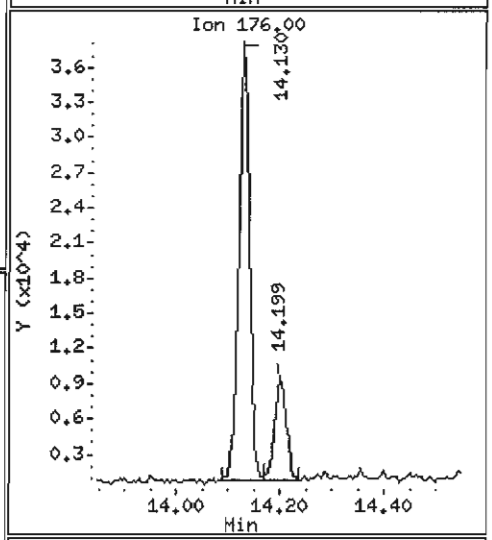


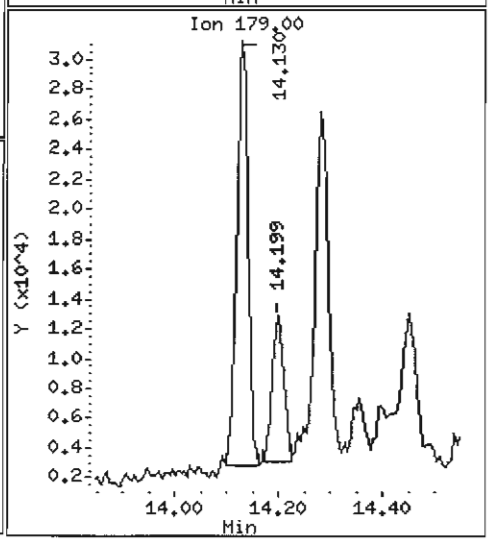












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

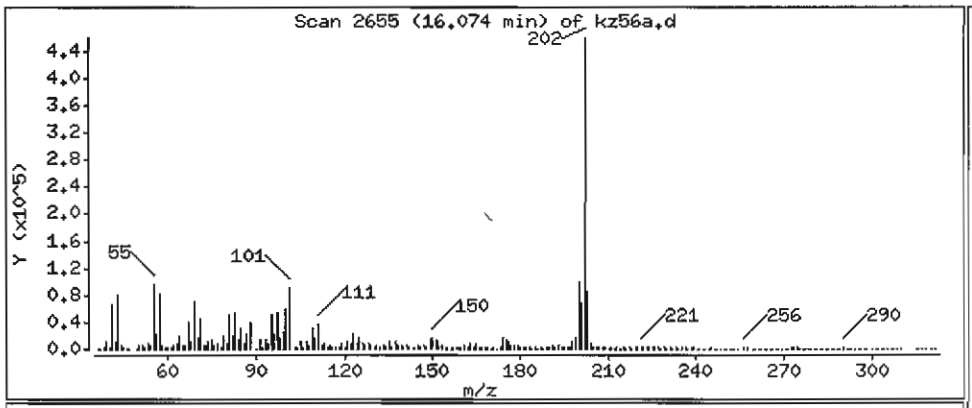
Operator: LJR/VTS

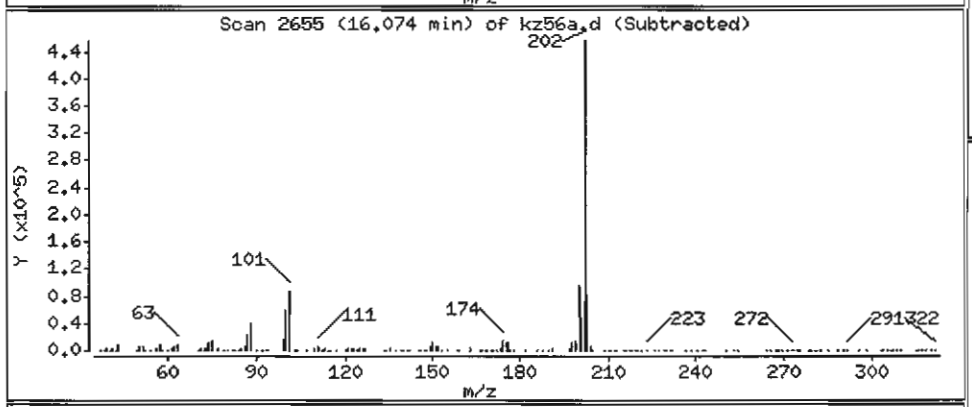
Column phase: ZB-5

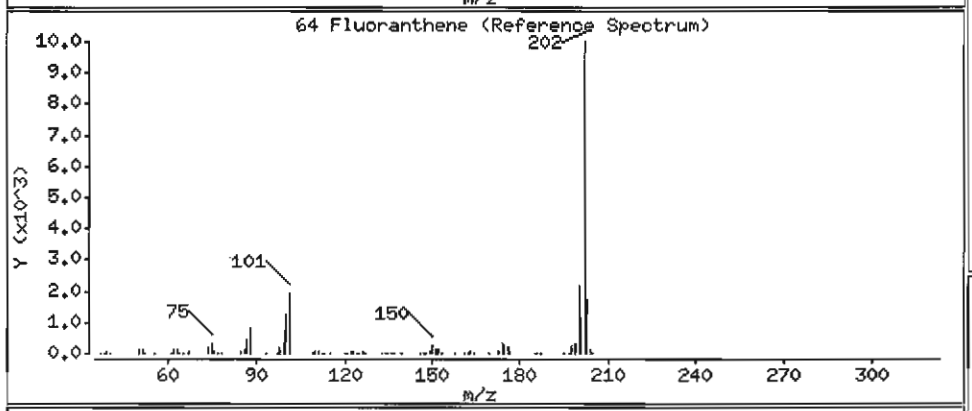
Column diameter: 0.32

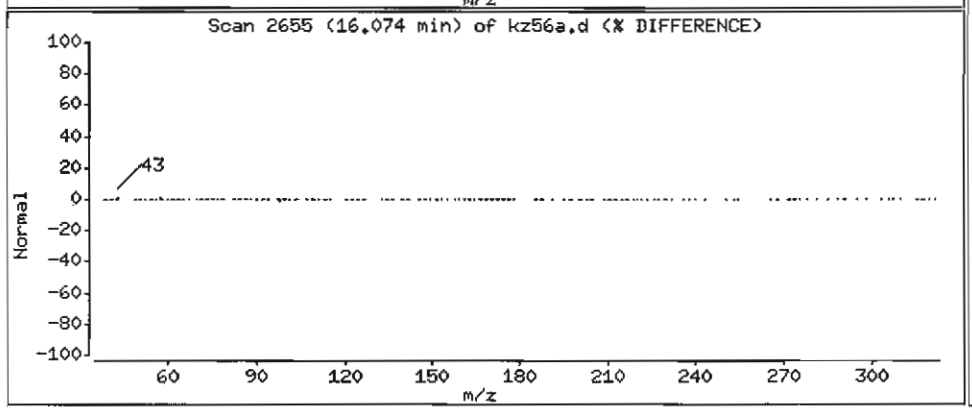
64 Fluoranthene

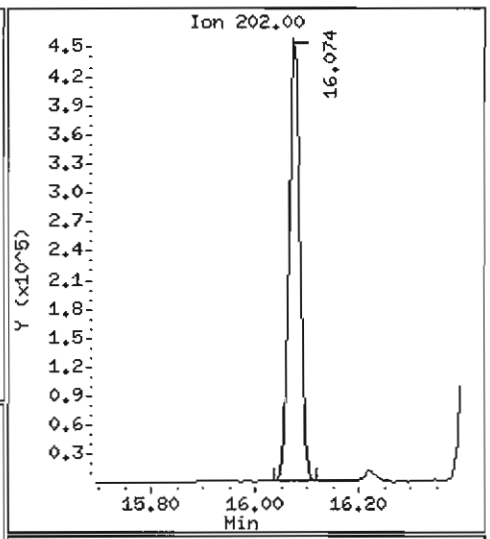
Concentration: 1535 ug/kg

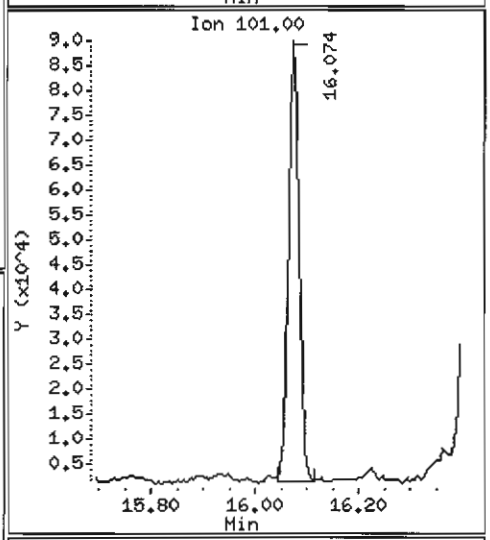


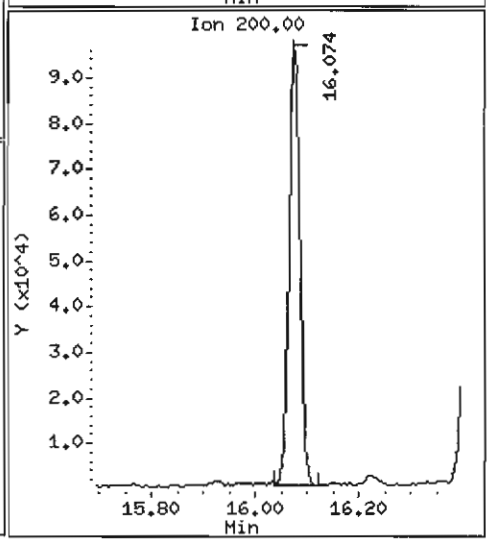












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

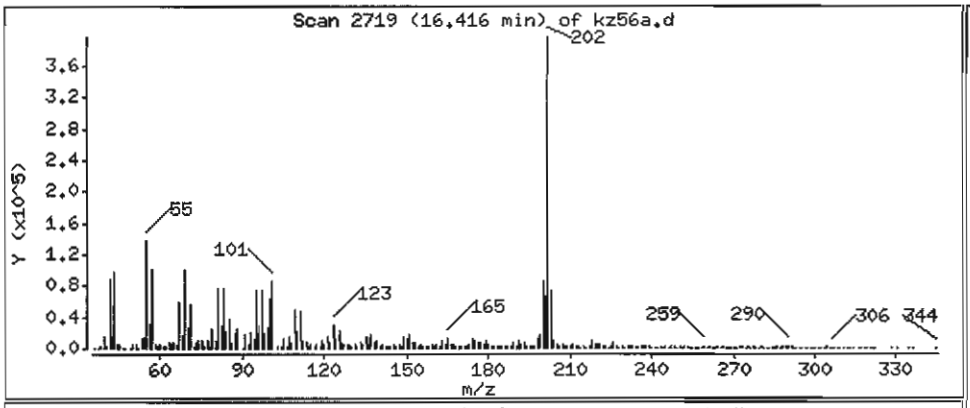
Operator: LJR/VTS

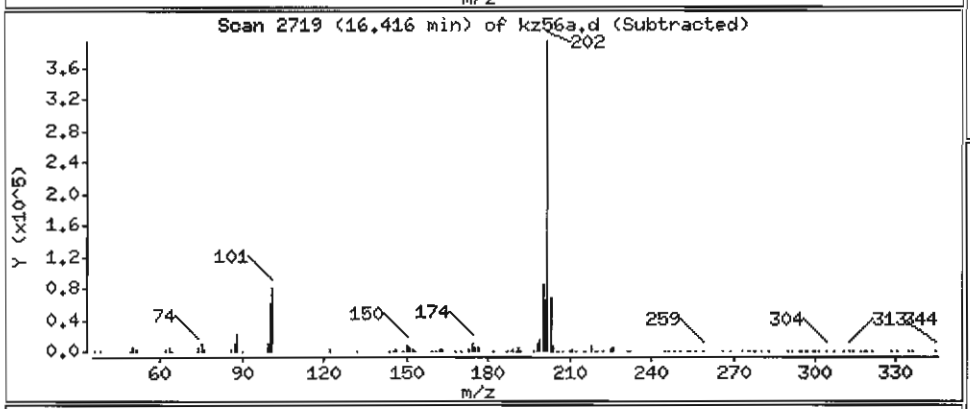
Column phase: ZB-5

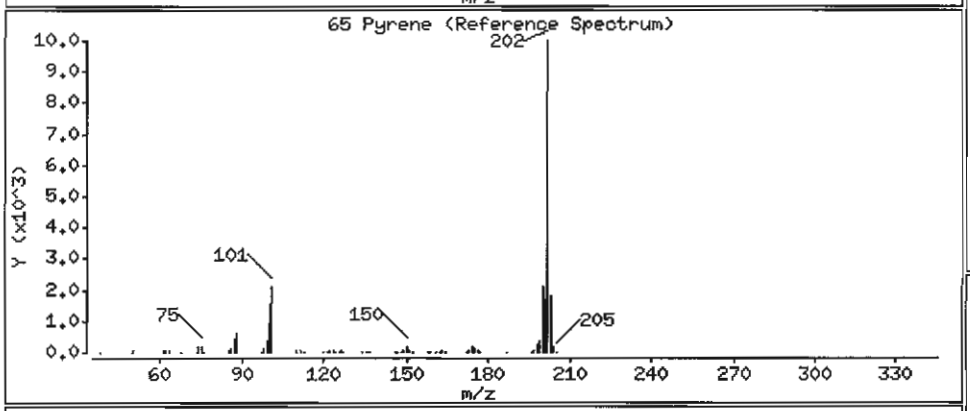
Column diameter: 0.32

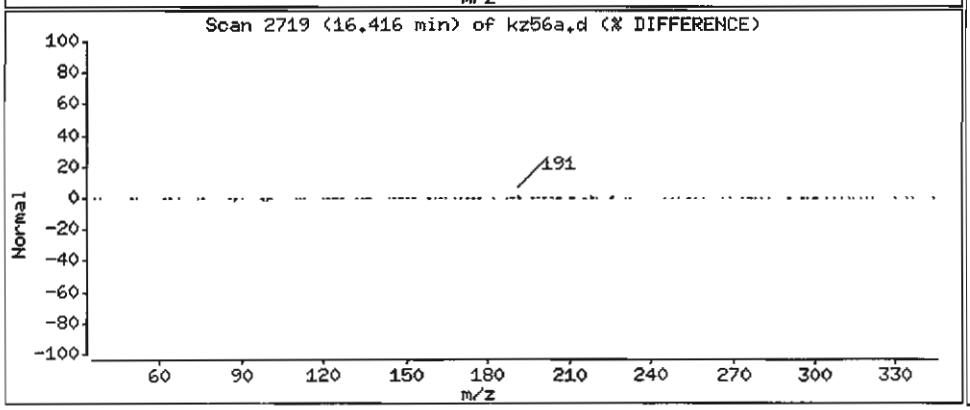
65 Pyrene

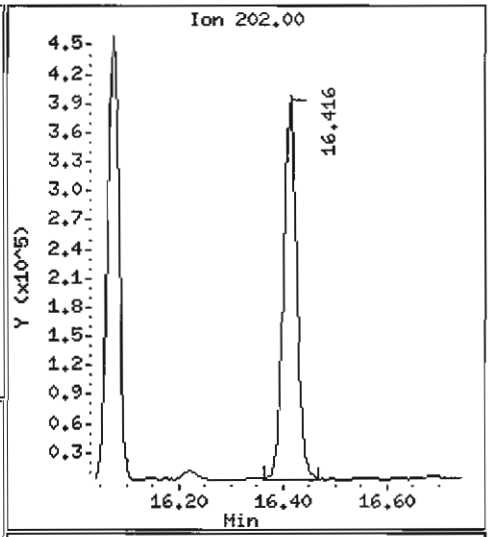
Concentration: 1435 ug/kg

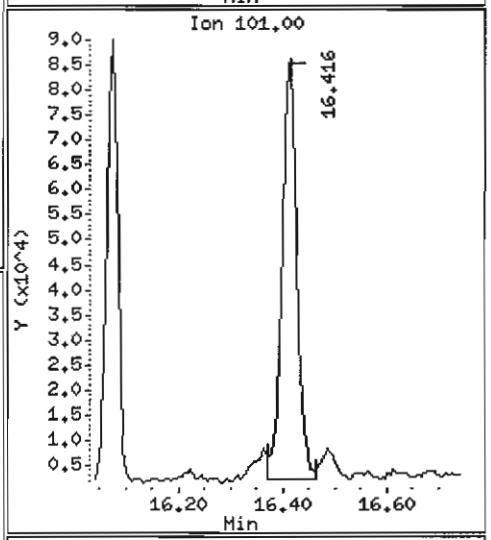


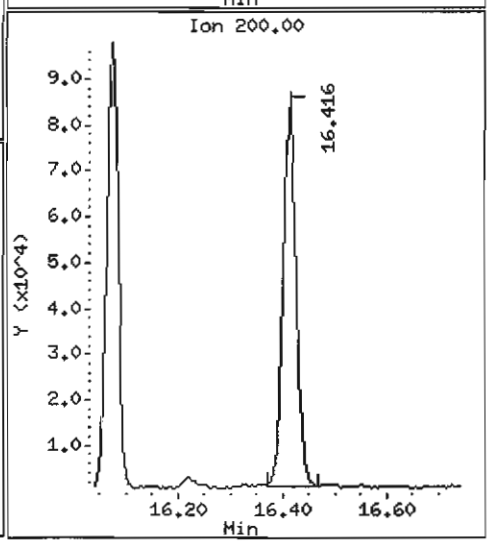












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

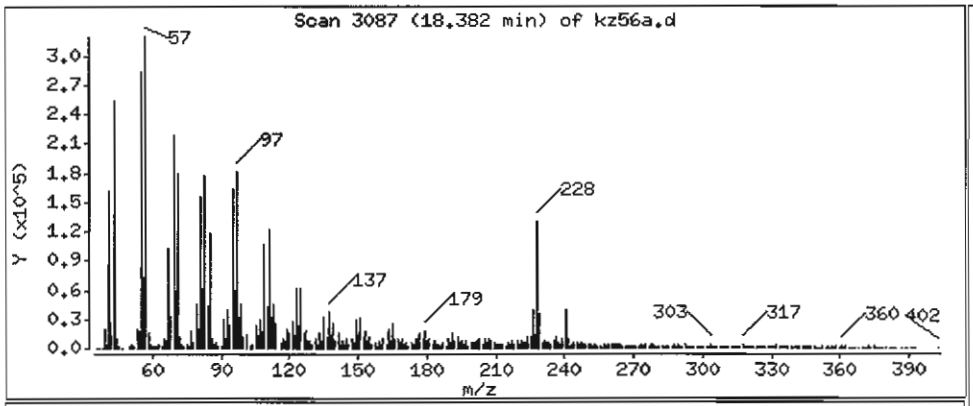
Operator: LJR/VTS

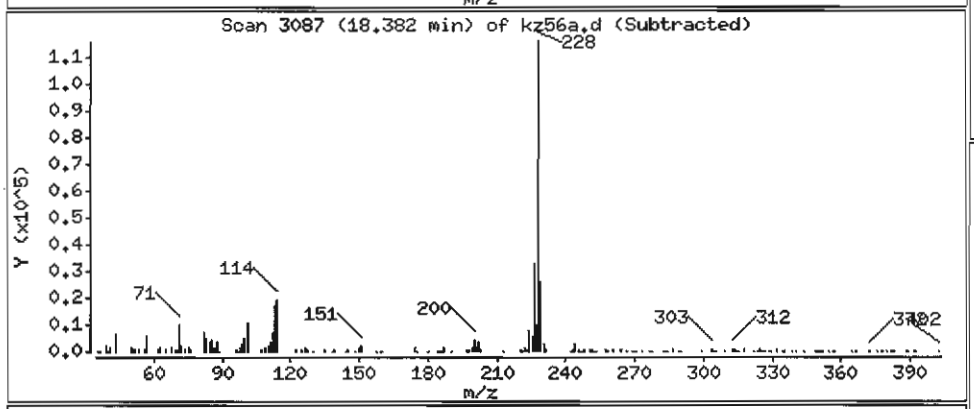
Column phase: ZB-5

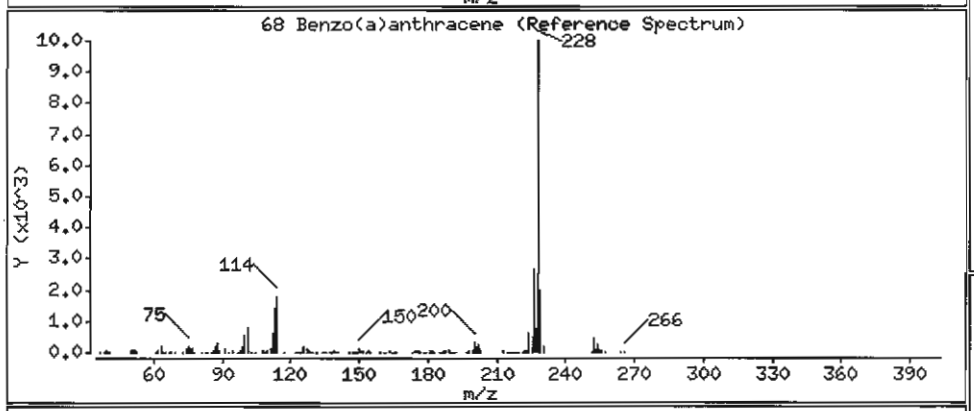
Column diameter: 0.32

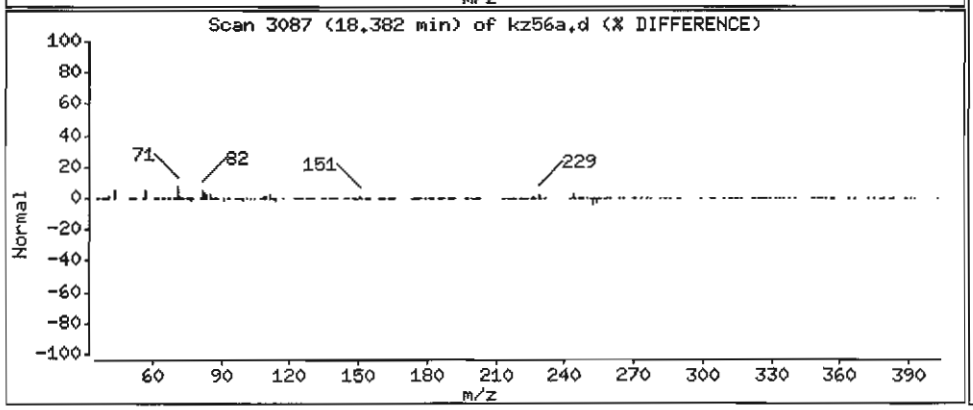
68 Benzo(a)anthracene

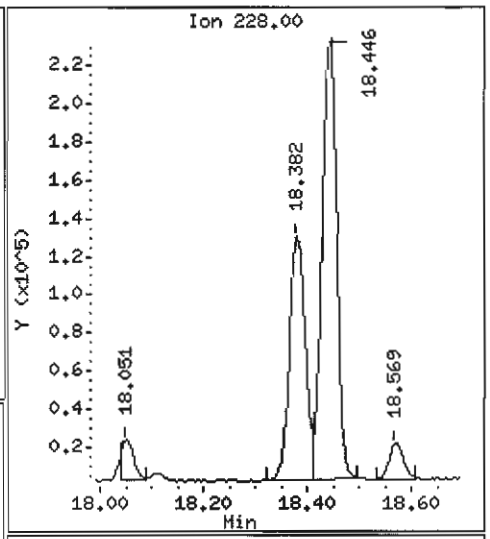
Concentration: 607.5 ug/kg

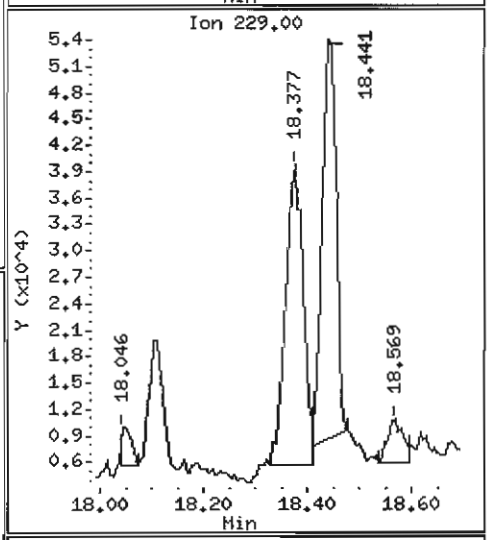


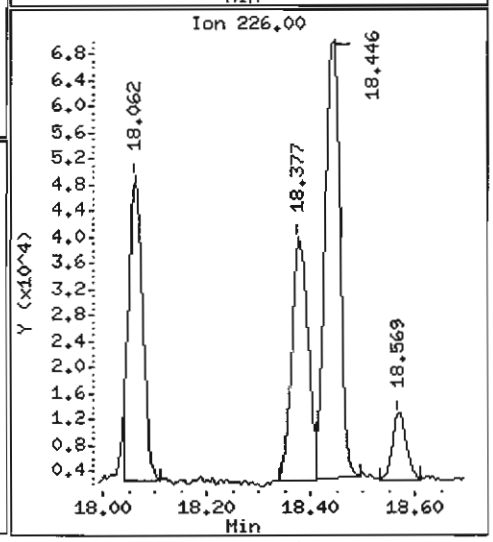












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

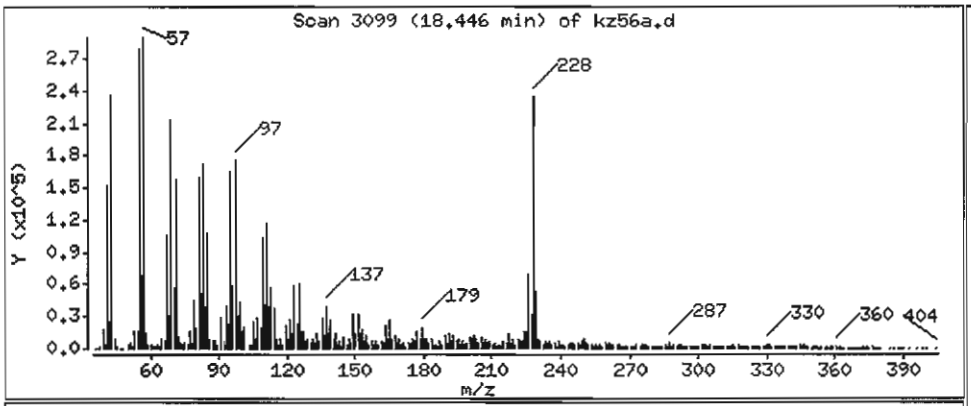
Operator: LJR/VTS

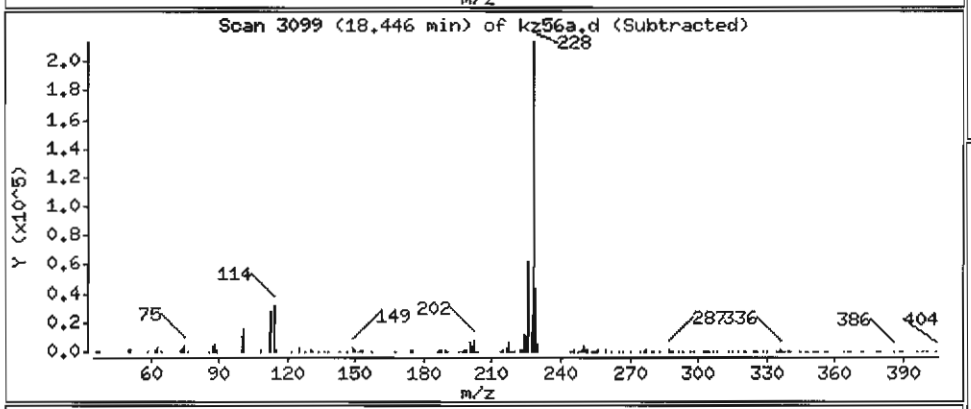
Column phase: ZB-5

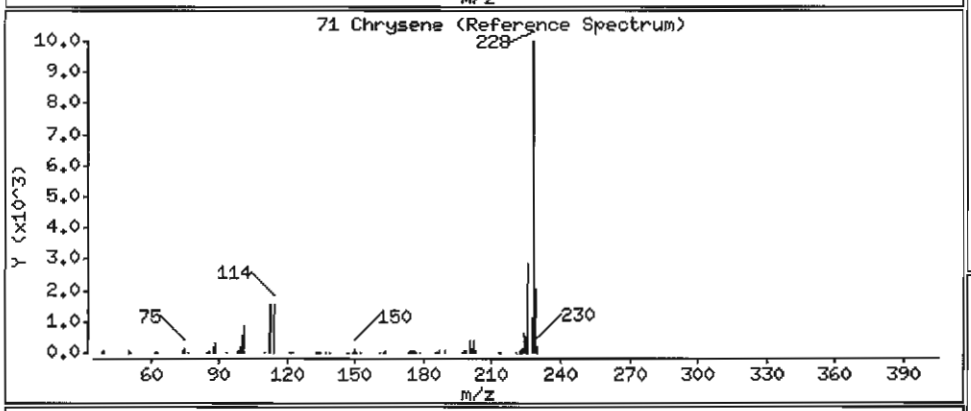
Column diameter: 0.32

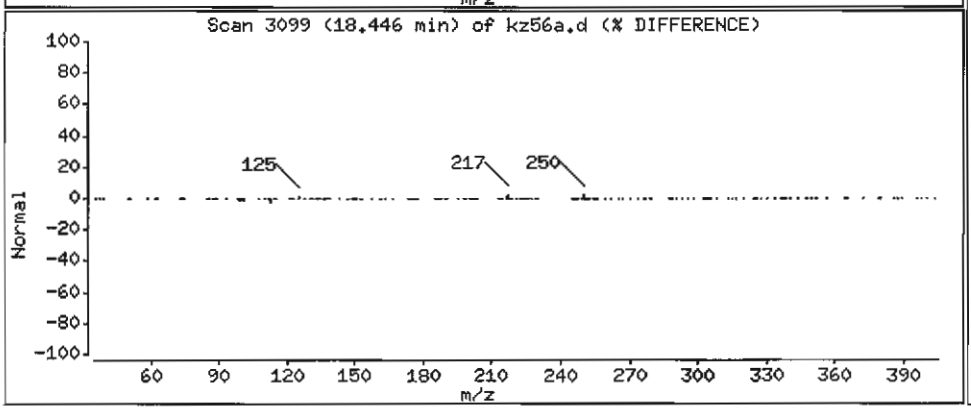
71 Chrysene

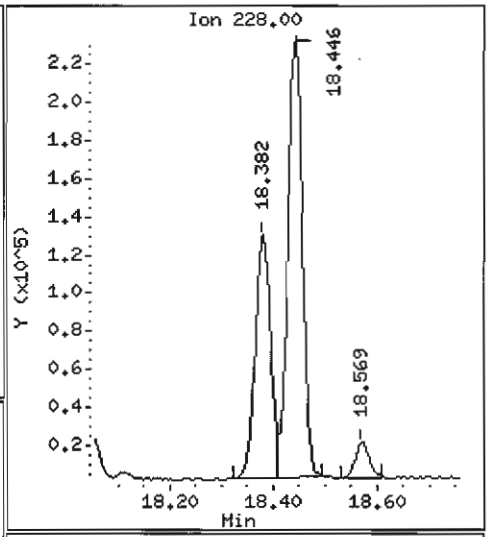
Concentration: 1005 ug/kg

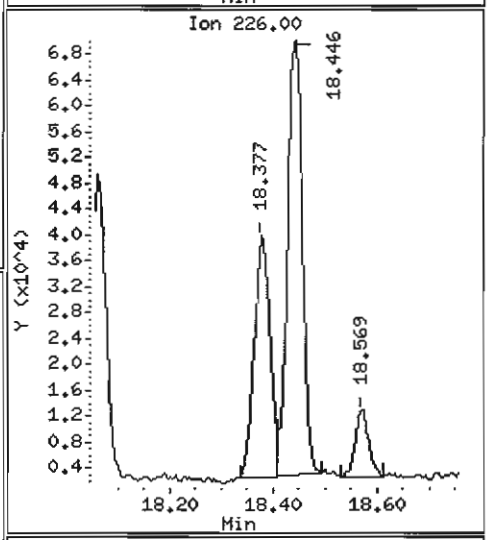


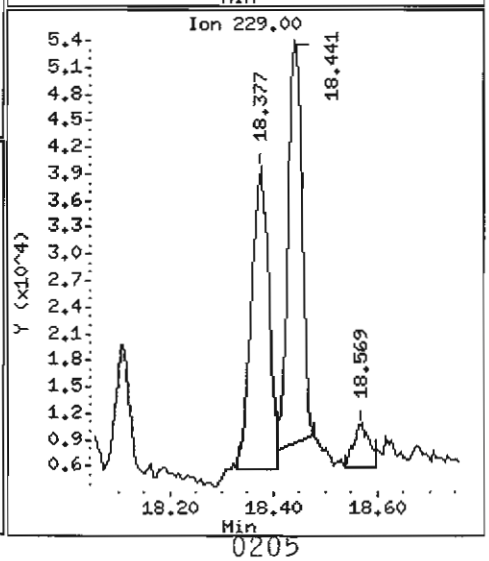












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

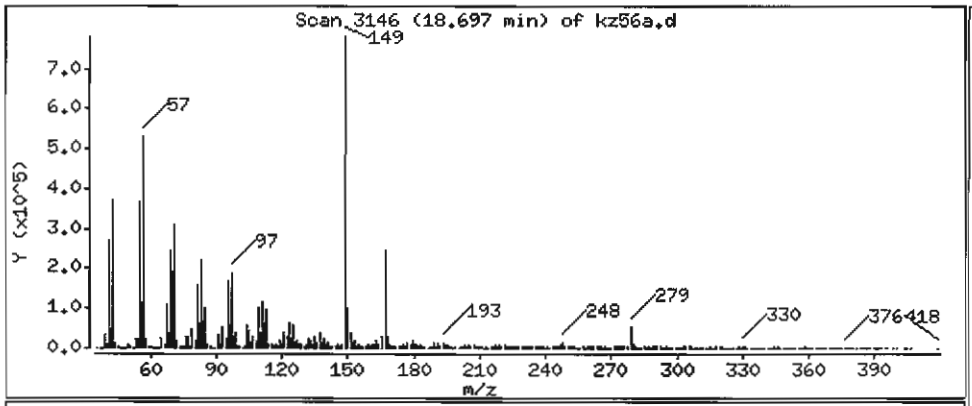
Operator: LJR/VTS

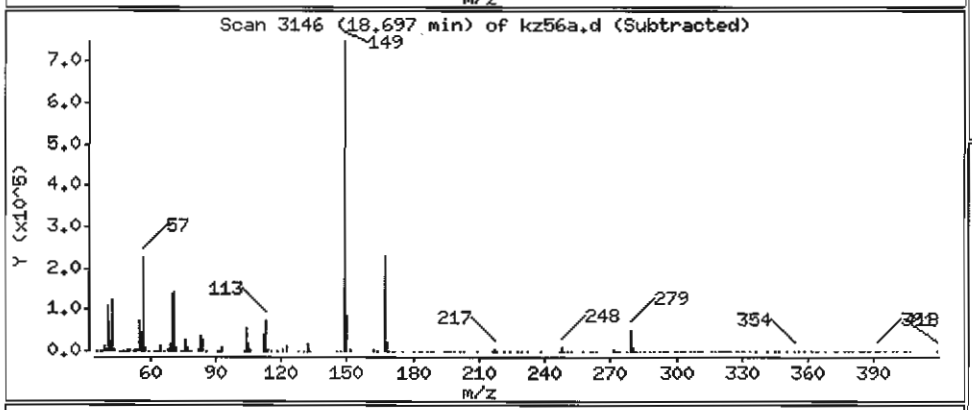
Column phase: ZB-5

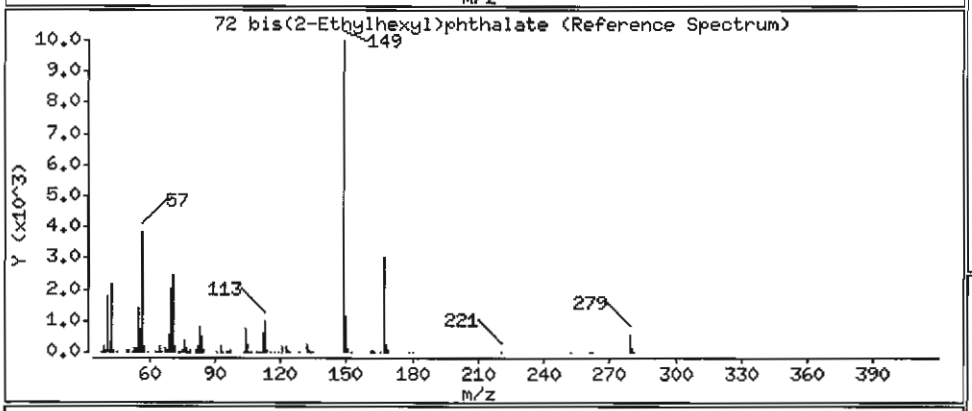
Column diameter: 0.32

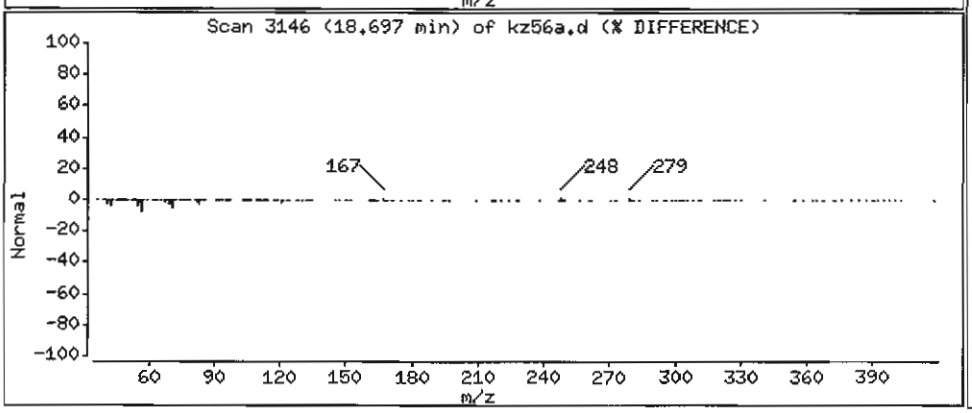
72 bis(2-Ethylhexyl)phthalate

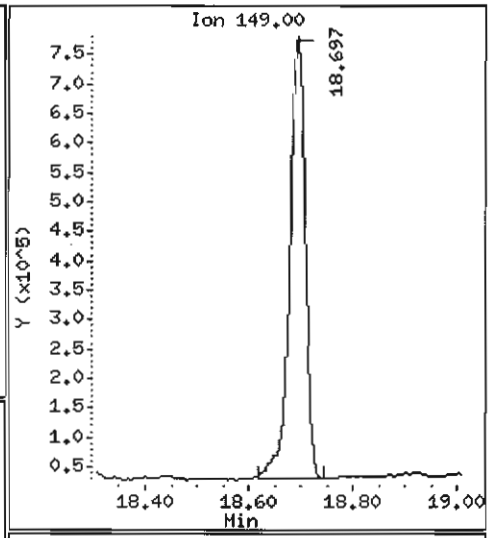
Concentration: 5360 ug/kg

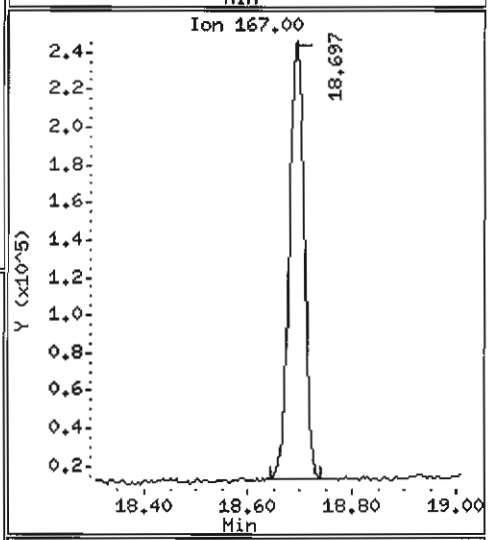


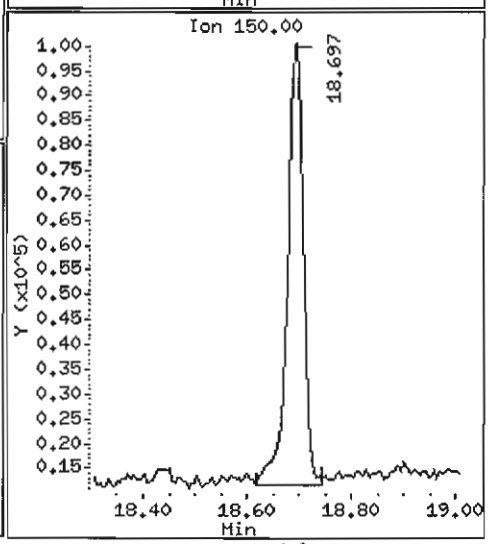












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

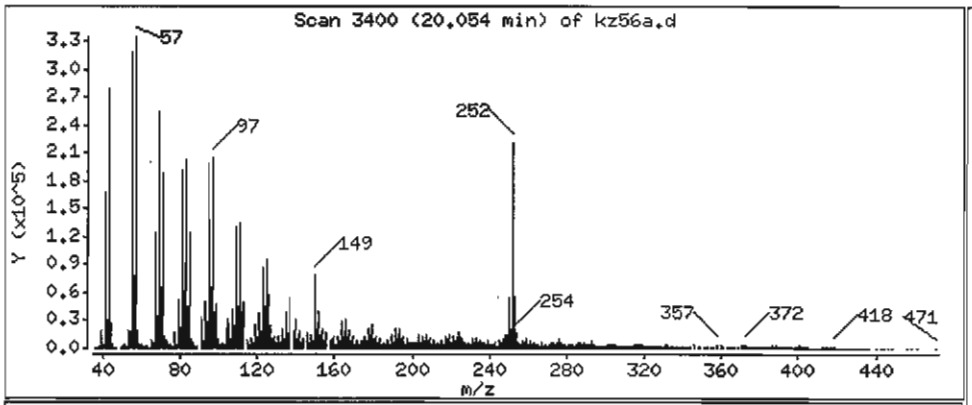
Operator: LJR/VTS

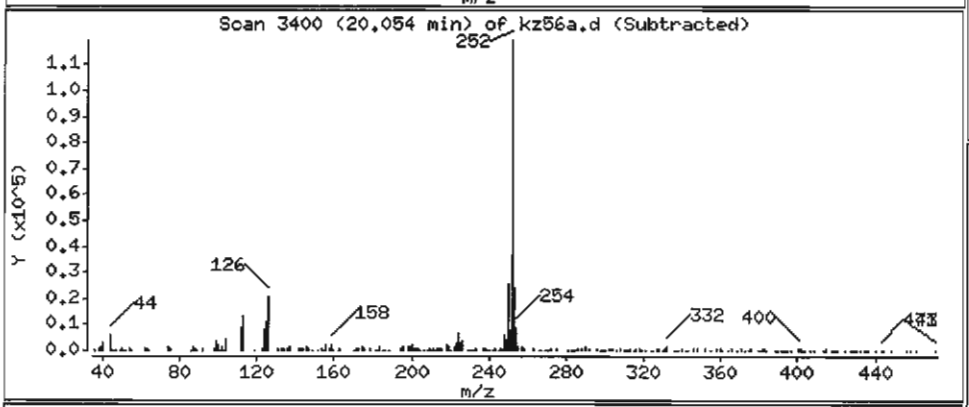
Column phase: ZB-5

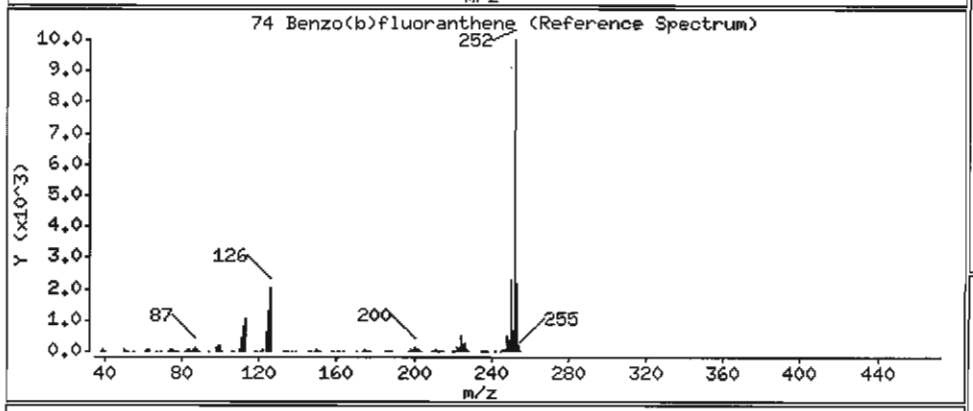
Column diameter: 0.32

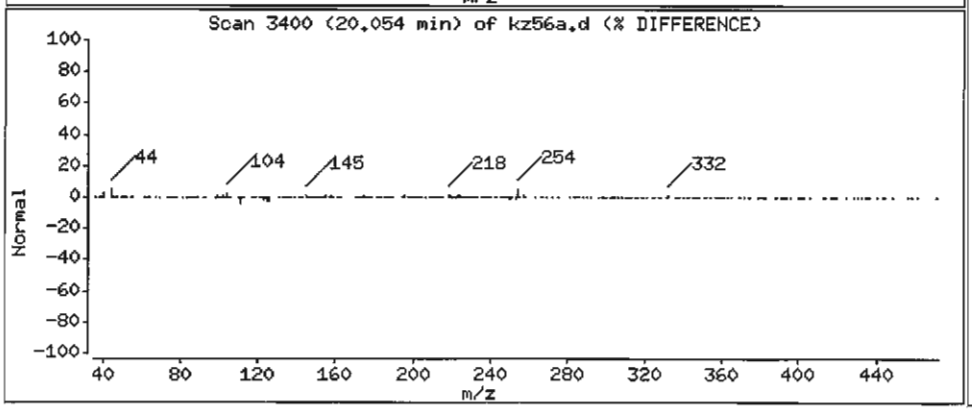
74 Benzo(b)fluoranthene

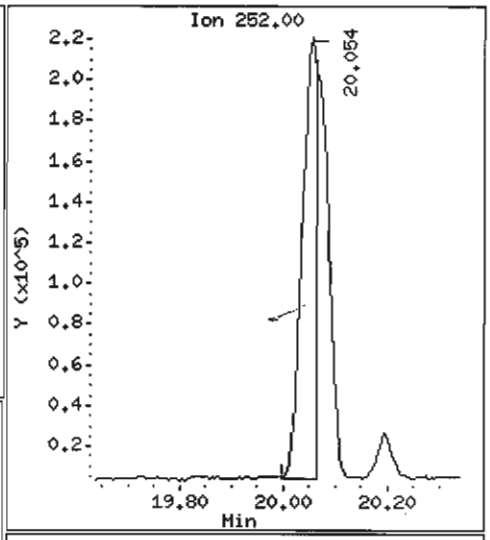
Concentration: 1268 ug/kg

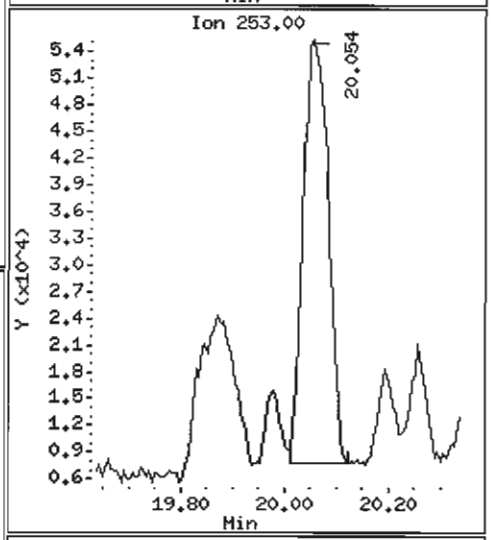


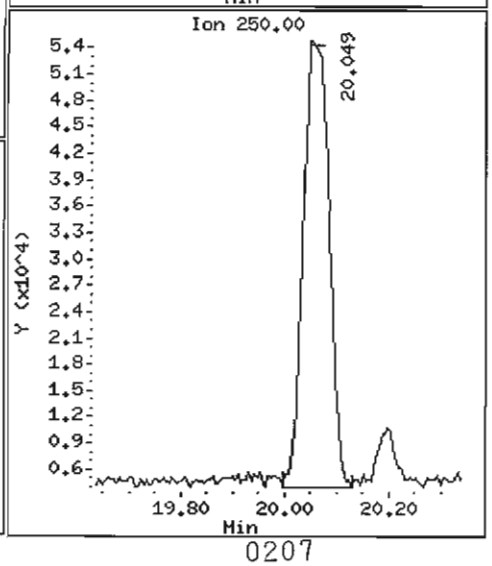












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

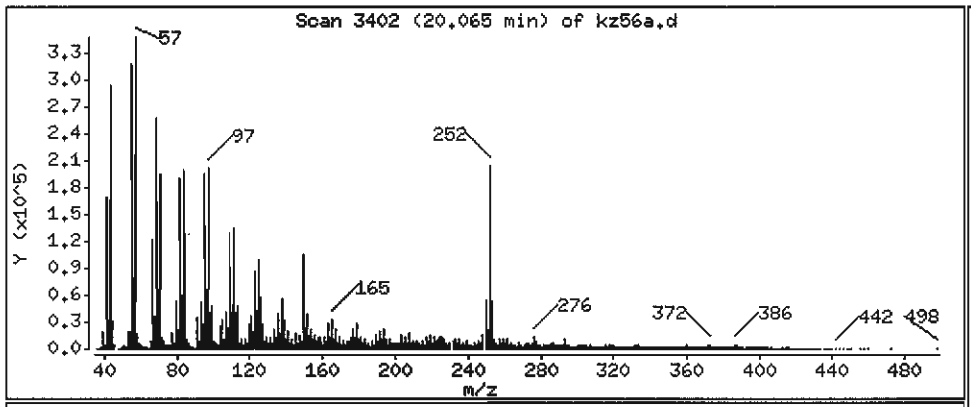
Operator: LJR/VTS

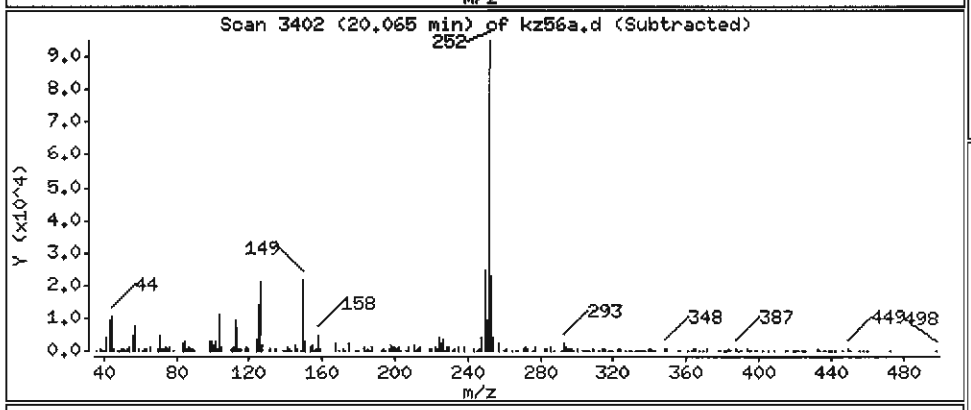
Column phase: ZB-5

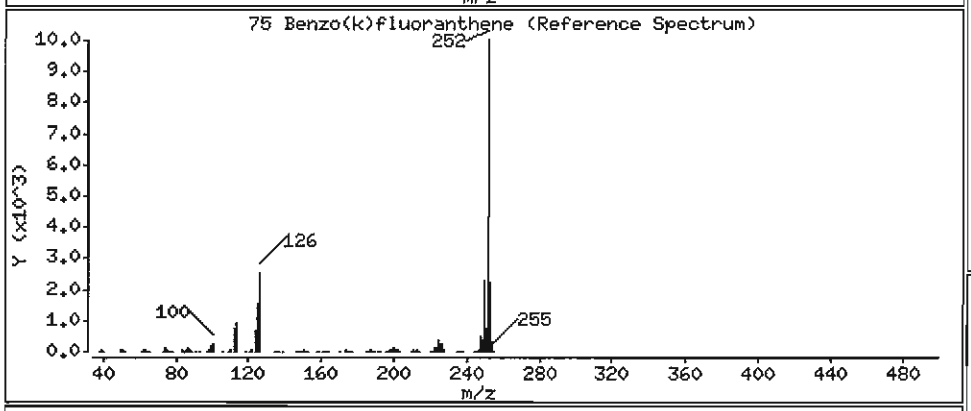
Column diameter: 0.32

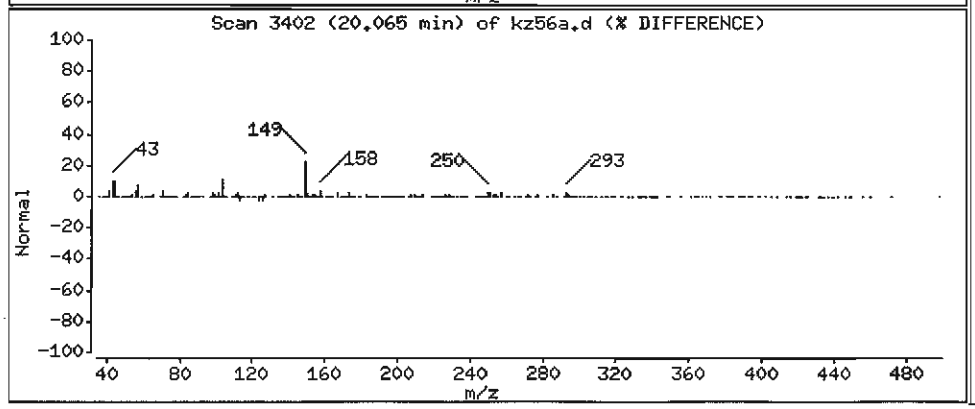
75 Benzo(k)fluoranthene

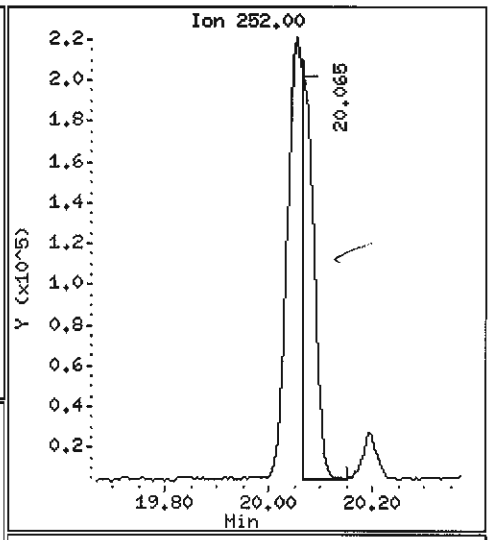
Concentration: 976.6 ug/kg

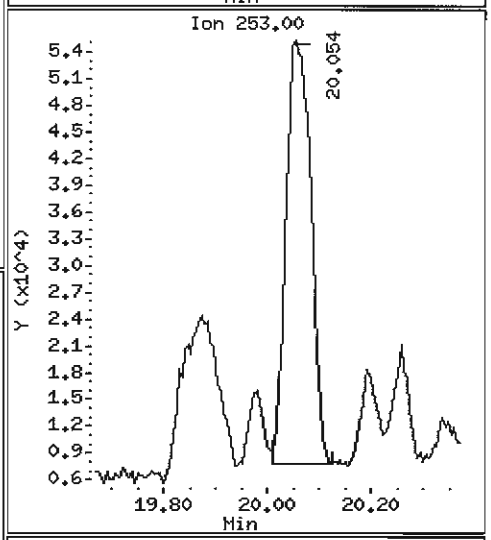


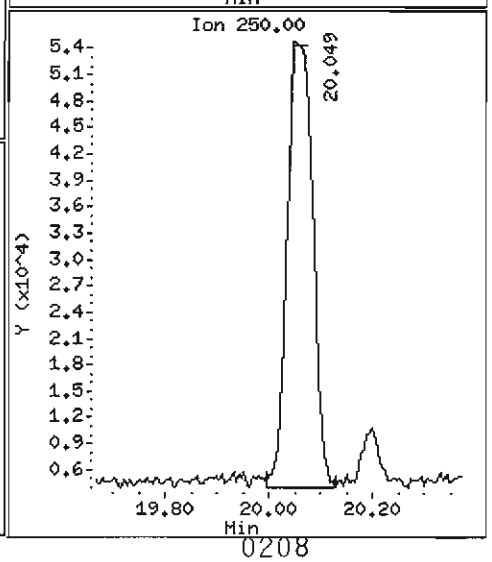












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

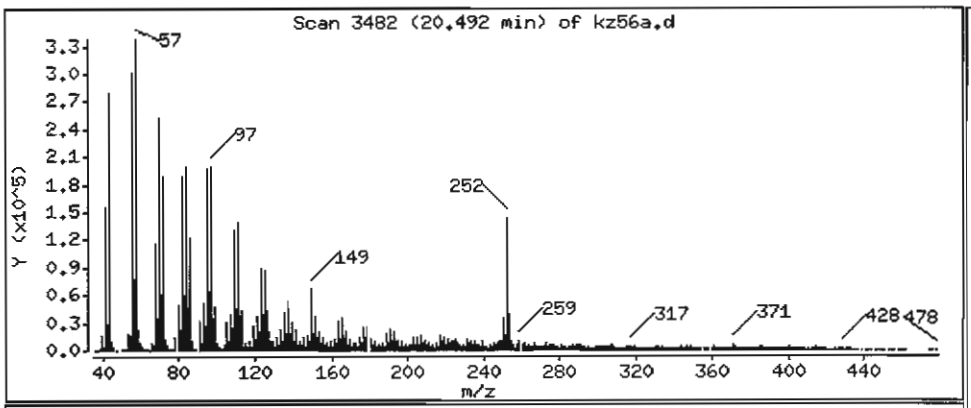
Operator: LJR/VTS

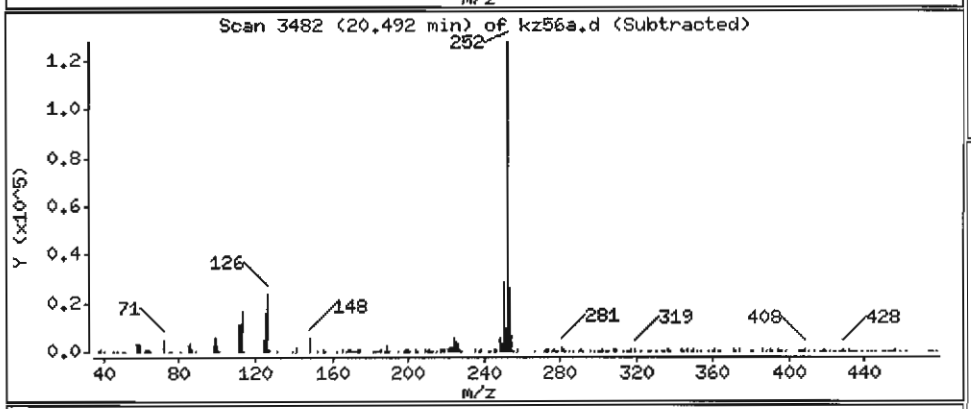
Column phase: ZB-5

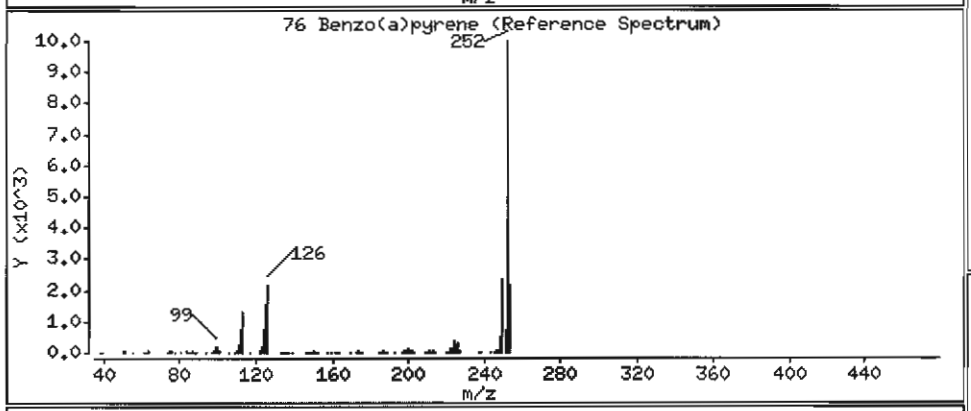
Column diameter: 0.32

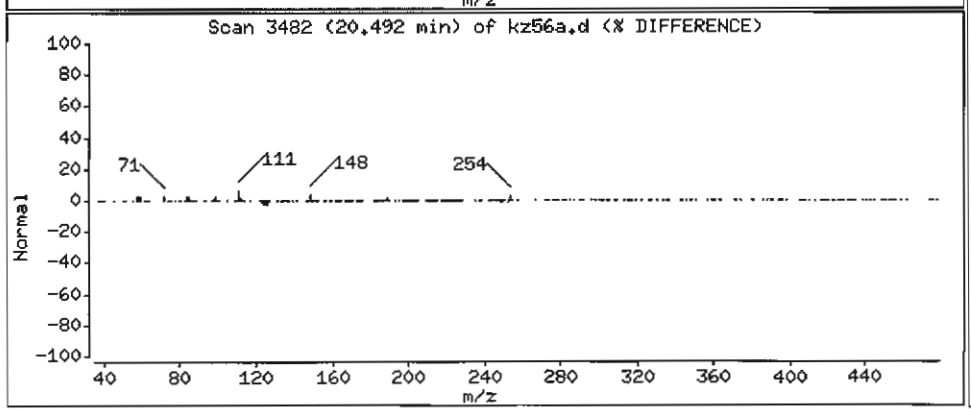
76 Benzo(a)pyrene

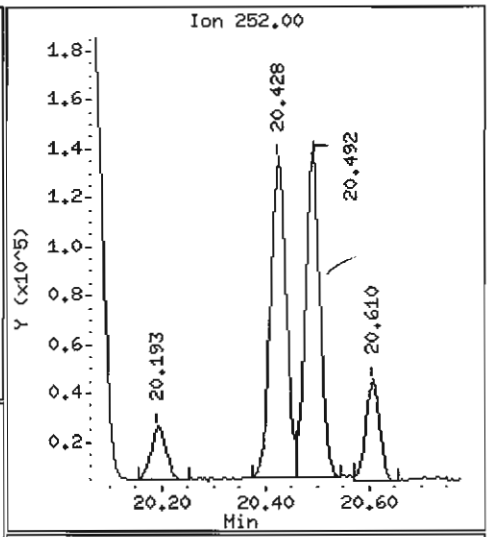
Concentration: 748.2 ug/kg

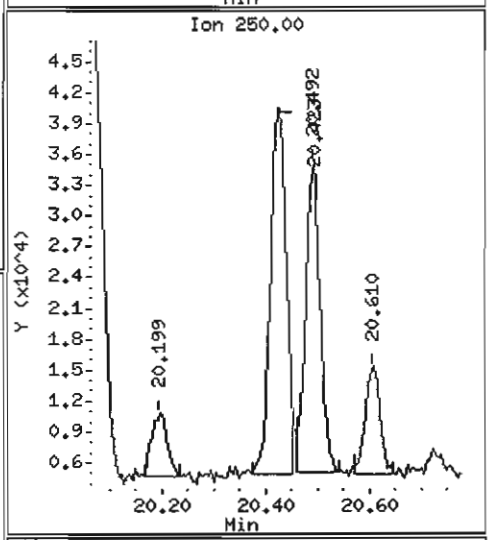


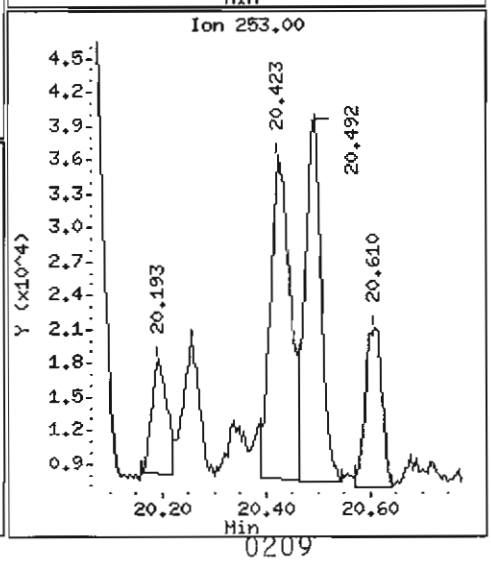












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

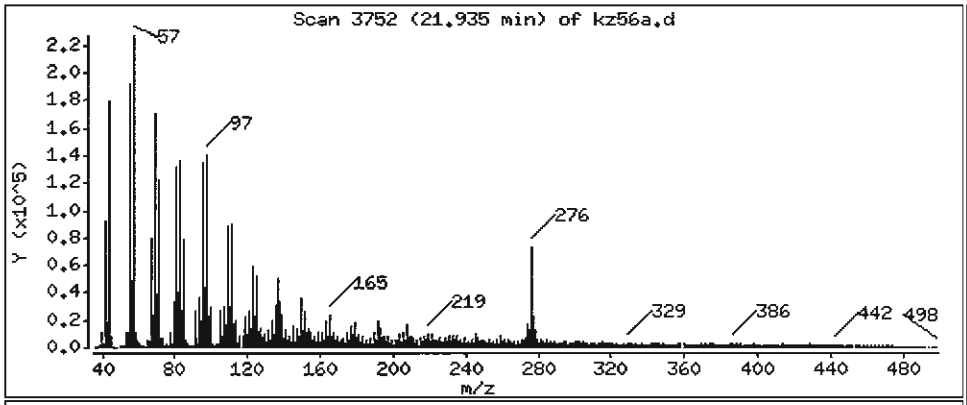
Operator: LJR/VTS

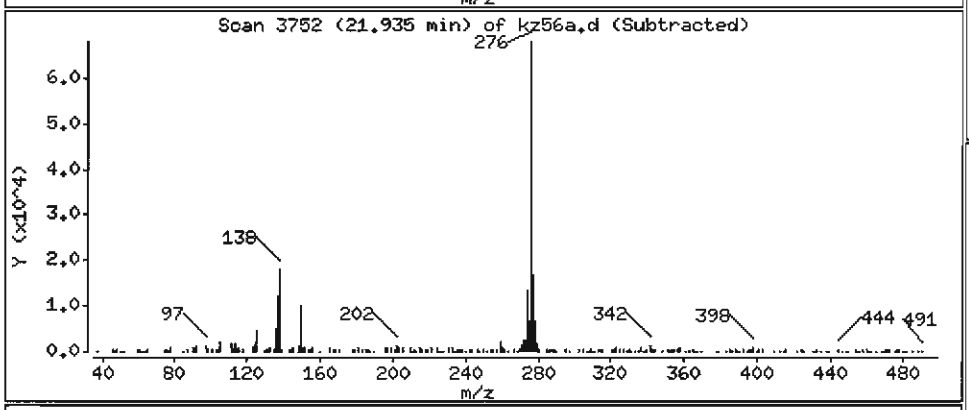
Column phase: ZB-5

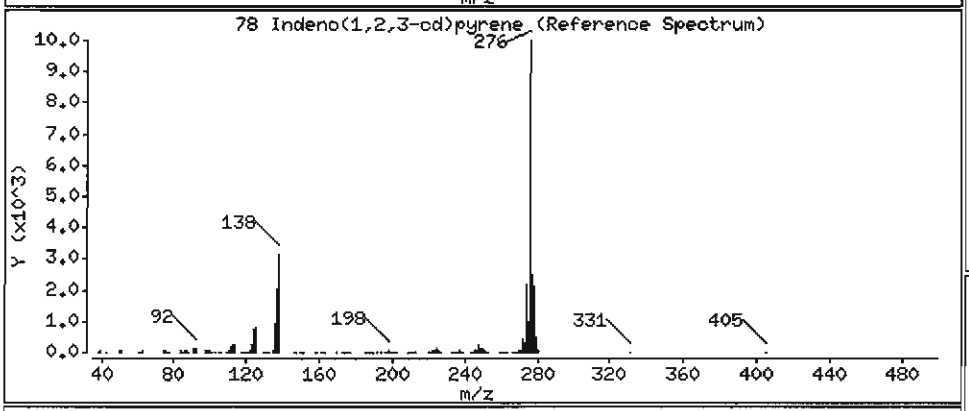
Column diameter: 0.32

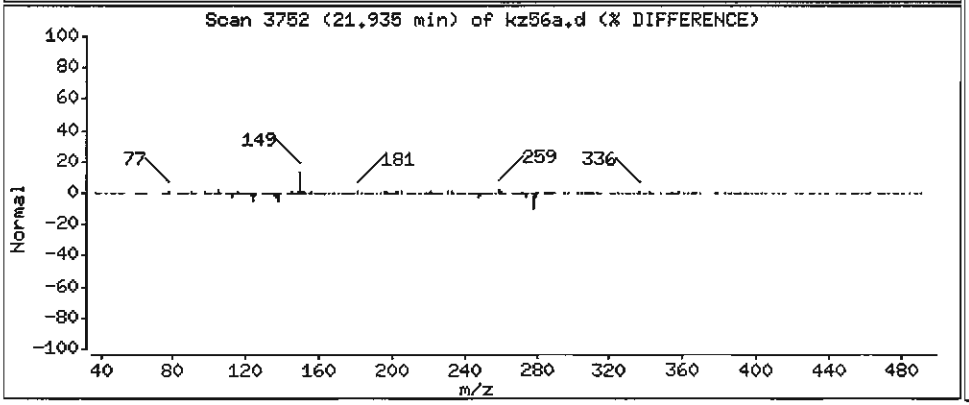
78 Indeno(1,2,3-cd)pyrene

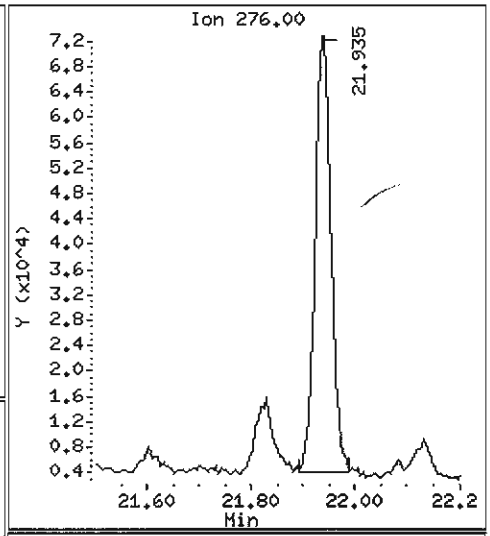
Concentration: 351.8 ug/kg

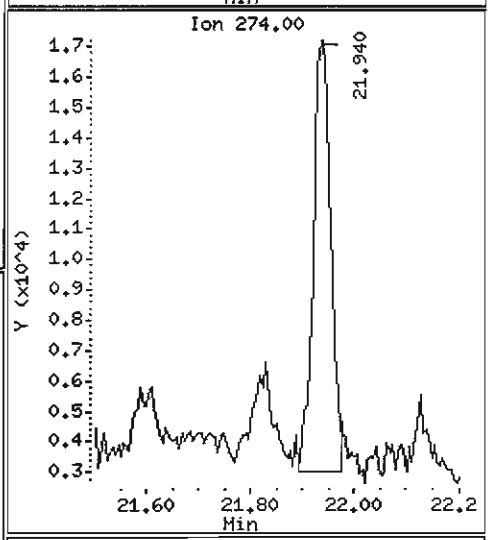


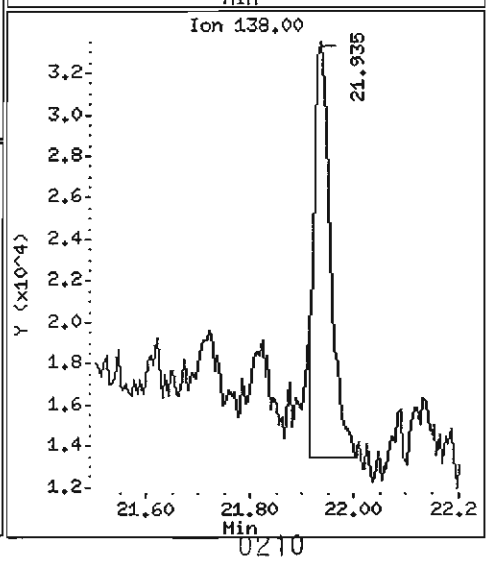












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

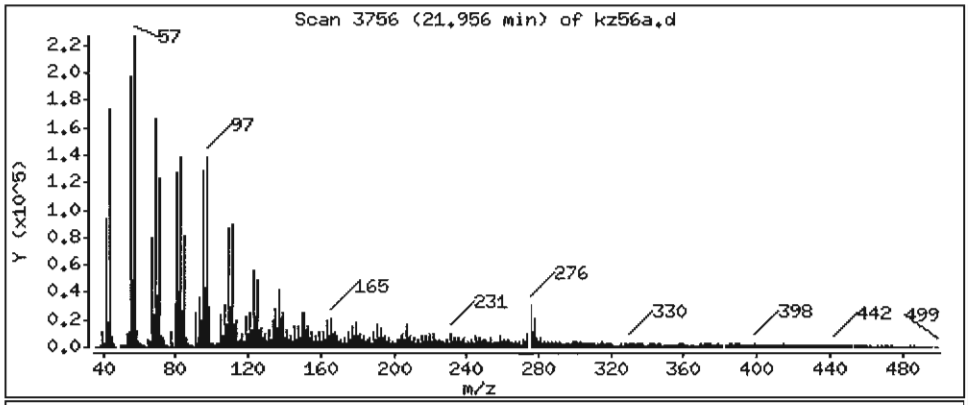
Operator: LJR/VTS

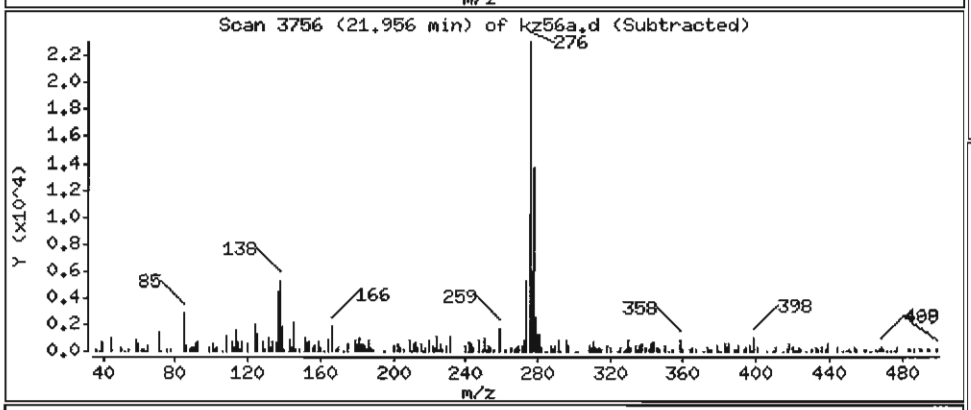
Column phase: ZB-5

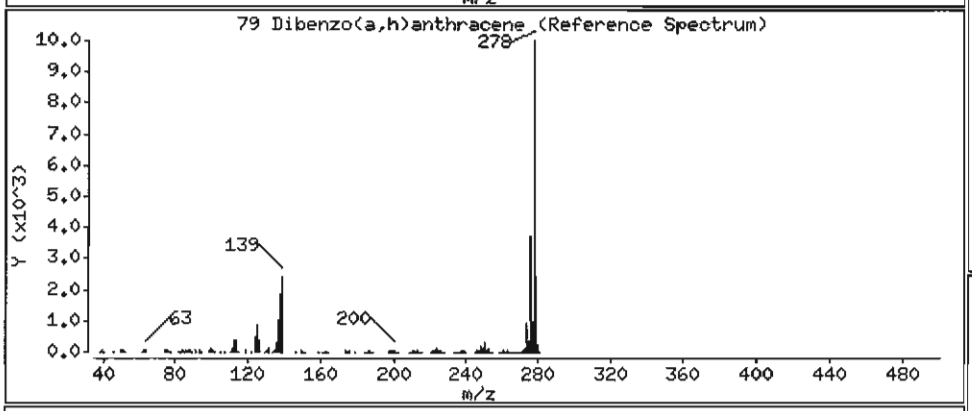
Column diameter: 0.32

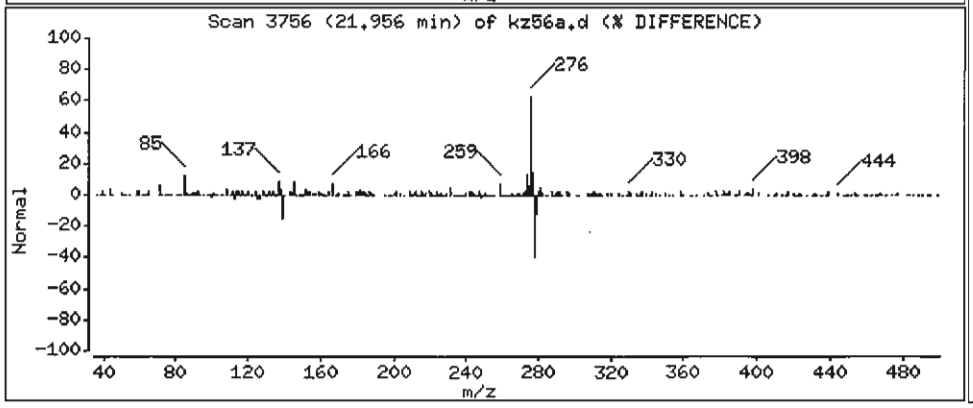
79 Dibenzo(a,h)anthracene

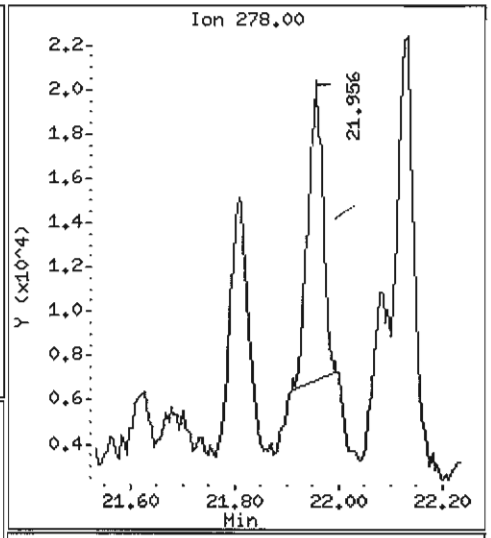
Concentration: 78.88 ug/kg

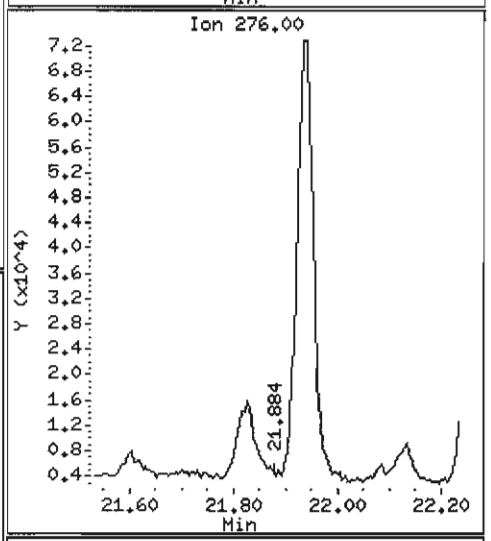


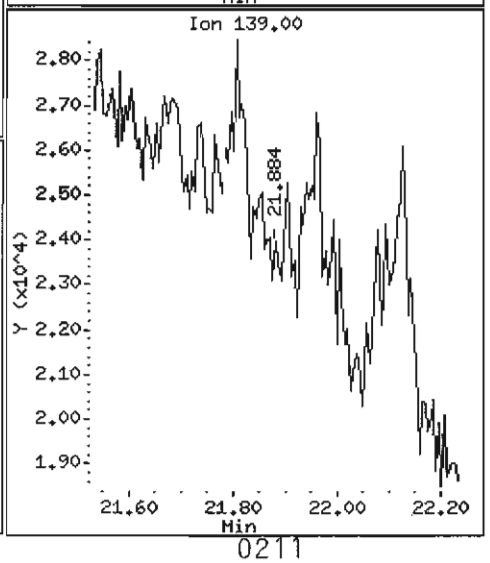












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

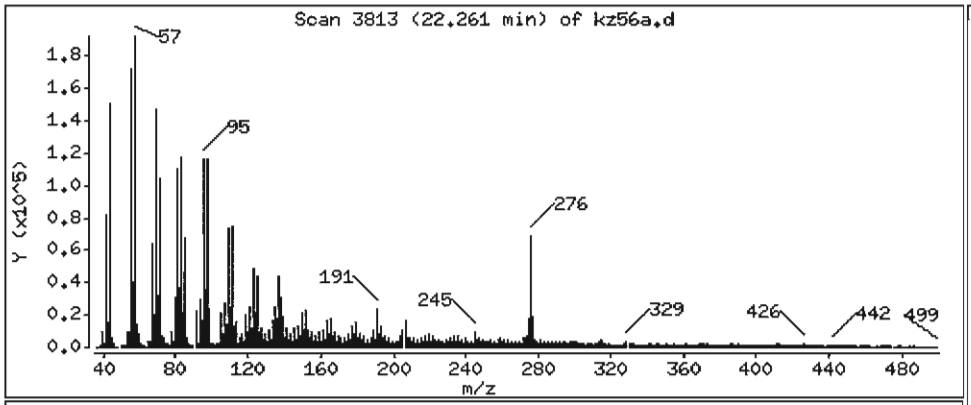
Operator: LJR/VTS

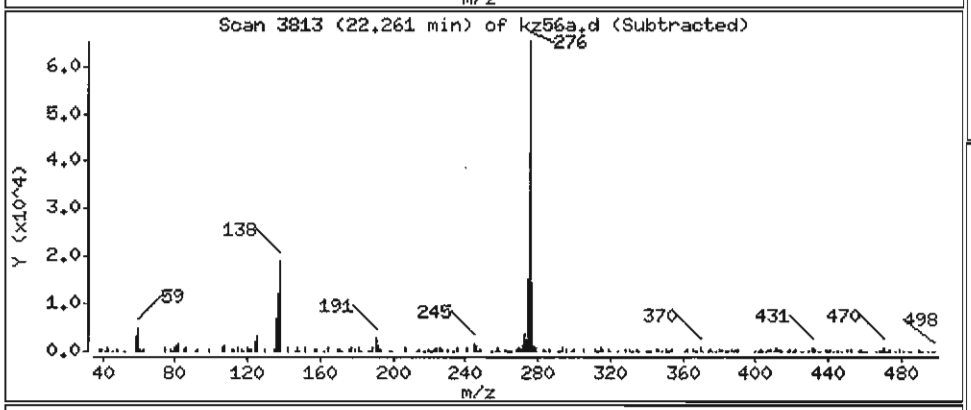
Column phase: ZB-5

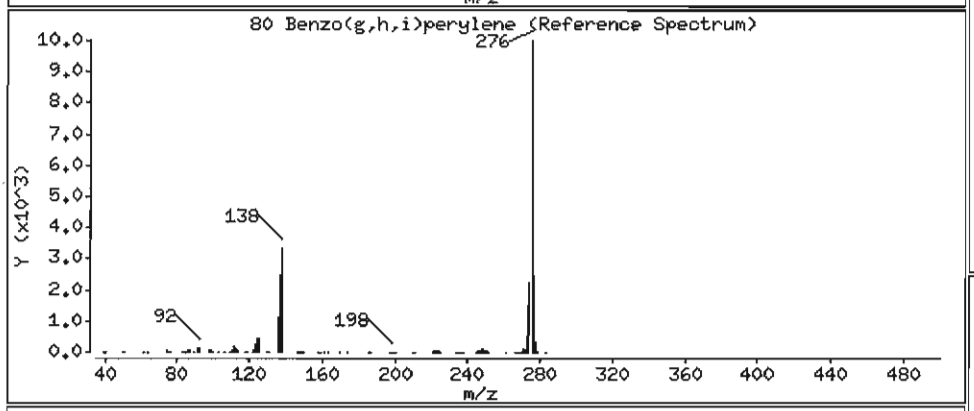
Column diameter: 0.32

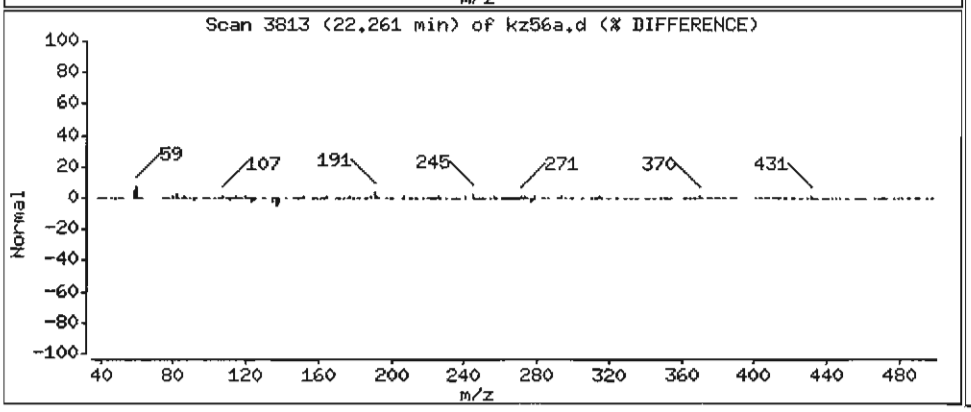
80 Benzo(g,h,i)perylene

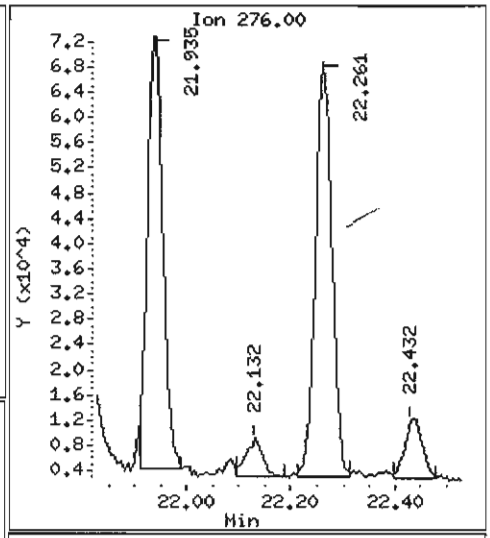
Concentration: 377.3 ug/kg

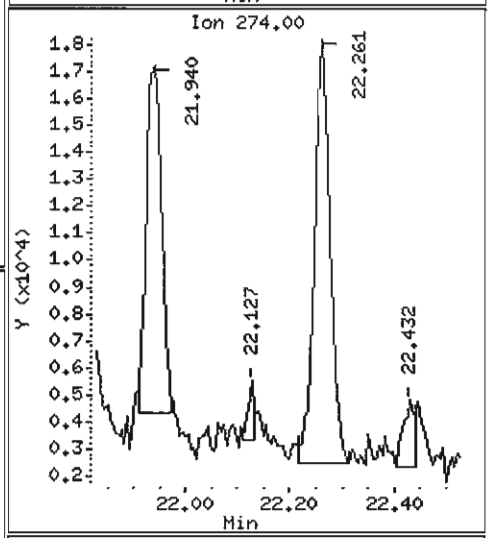


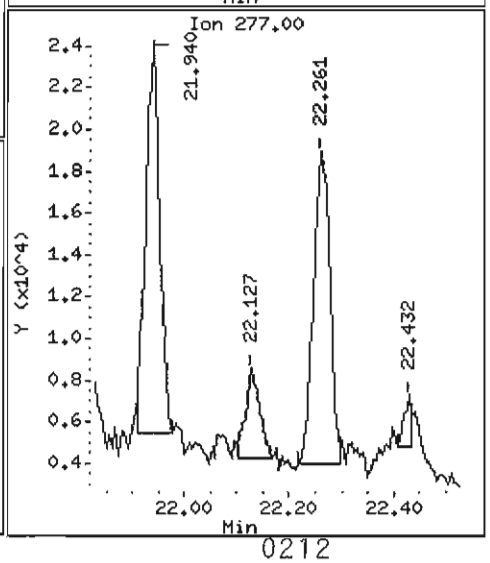












Data File: /chem1/nt6.i/20070526.b/kz56a.d

Date : 26-MAY-2007 18:48

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

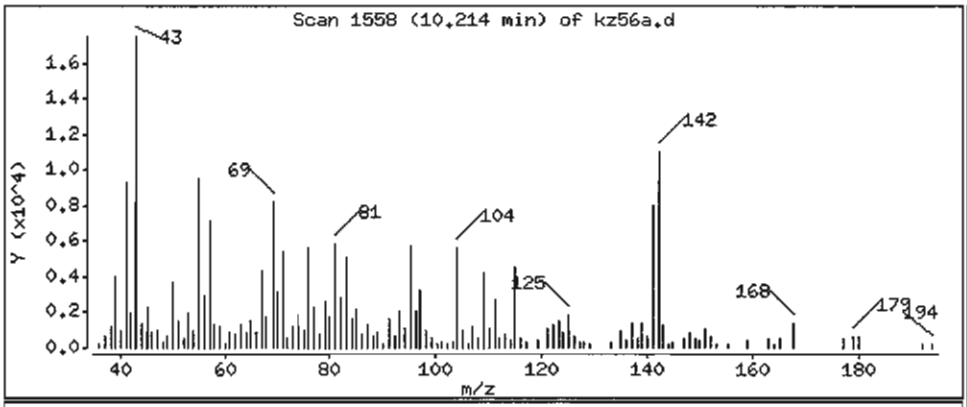
Column phase: ZB-5

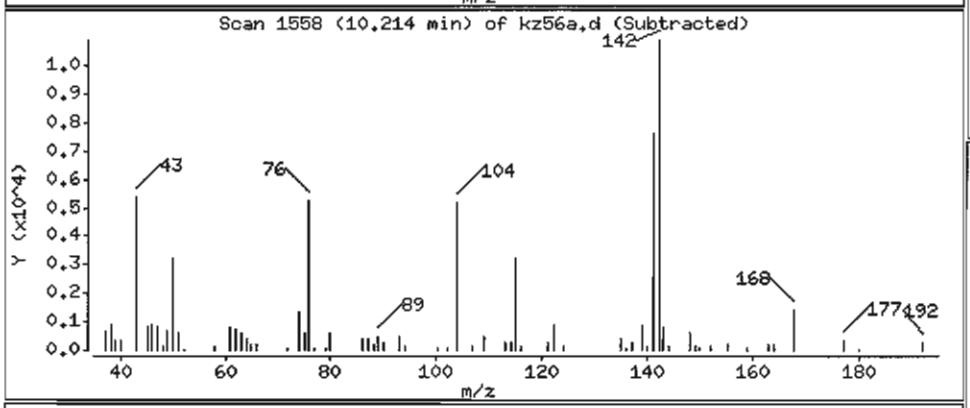
Column diameter: 0.32

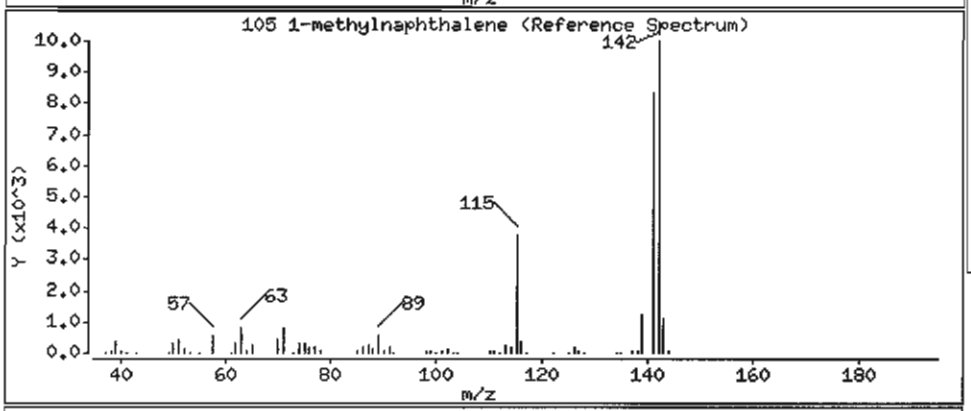
NRcp

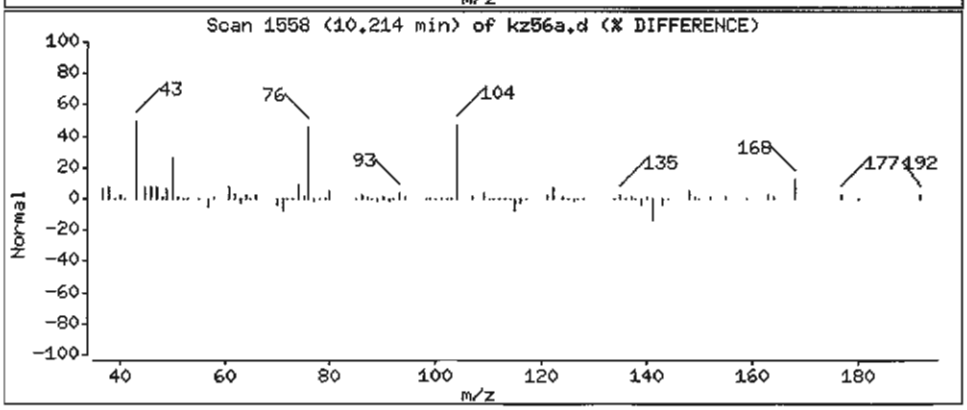
105 1-methylnaphthalene

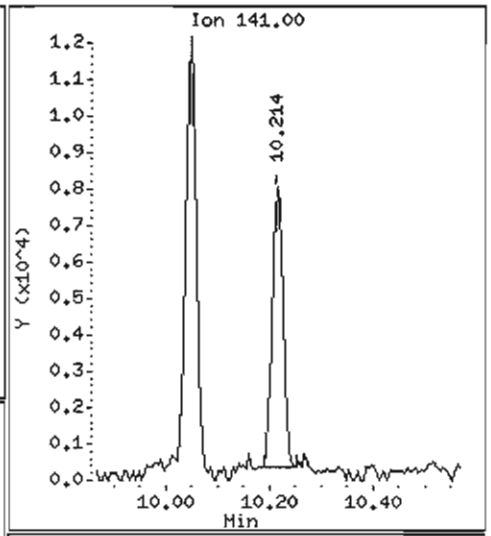
Concentration: 31.88 ug/kg

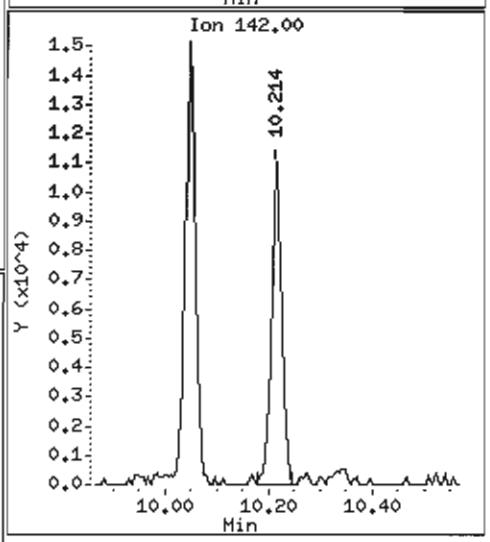












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC11-S
DILUTION

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 09:20
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 46.6%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	200	120 J
91-57-6	2-Methylnaphthalene	200	< 200 U
208-96-8	Acenaphthylene	200	< 200 U
83-32-9	Acenaphthene	200	< 200 U
132-64-9	Dibenzofuran	200	< 200 U
86-73-7	Fluorene	200	< 200 U
85-01-8	Phenanthrene	200	720
120-12-7	Anthracene	200	170 J
206-44-0	Fluoranthene	200	1,900
129-00-0	Pyrene	200	1,700
56-55-3	Benzo(a)anthracene	200	680
117-81-7	bis(2-Ethylhexyl)phthalate	200	6,100
218-01-9	Chrysene	200	1,100
205-99-2	Benzo(b)fluoranthene	200	1,200
207-08-9	Benzo(k)fluoranthene	200	920
50-32-8	Benzo(a)pyrene	200	830
193-39-5	Indeno(1,2,3-cd)pyrene	200	550
53-70-3	Dibenz(a,h)anthracene	200	130 J
191-24-2	Benzo(g,h,i)perylene	200	620

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.8%	2-Fluorobiphenyl	76.0%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	74.1%	2-Fluorophenol	60.3%
2,4,6-Tribromophenol	71.5%	d4-2-Chlorophenol	68.5%

FORM I

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56adl.d
Lab Smp Id: KZ56A — Client Smp ID: Y3-RC11-S
Inj Date : 29-MAY-2007 09:20
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56A,10
Misc Info : 07-9547
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	94.10000	Weight of sample extracted (g)
M	46.60000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.910	4.903	(0.722)	46824	2.25835	449.4
$ 2 Phenol-d5	99	6.443	6.447	(0.947)	67660	2.78120	553.5
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.518	6.521	(0.958)	43181	2.56705	510.9
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.801	6.805	(1.000)	228052	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.094	7.093	(1.043)	17196	1.67176	332.7
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.725	7.729	(0.876)	37137	1.91887	381.9
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.820	8.819	(1.000)	813350	20.0000	
	28 Naphthalene	128	8.847	8.851	(1.003)	30572	0.63458 LDL	126.3
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.615	10.619	(0.911)	51594	1.89723	377.6
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.651	11.655	(1.000)	402936	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.933	12.937	(1.110)	11007	2.68318	534.0
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.002	14.001	(1.000)	566329	20.0000	
	60 Phenanthrene	178	14.034	14.038	(1.002)	136280	3.60578	717.6
	61 Anthracene	178	14.103	14.107	(1.007)	33063	0.84665 LDL	168.5
	62 Carbazole	167	14.408	14.412	(1.029)	26255	0.78130	155.5
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.962	15.956	(1.140)	349556	9.74809	1940
65 Pyrene	202	16.304	16.303	(0.891)	352235	8.39452	1671
$ 66 Terphenyl-d14	244	16.652	16.650	(0.910)	50586	1.90378	378.9
67 Butylbenzylphthalate	149	17.560	17.558	(0.960)	29836	1.51230	301.0
68 Benzo(a)anthracene	228	18.259	18.253	(0.998)	128820	3.41018	678.7
* 69 Chrysene-d12	240	18.292	18.280	(1.000)	505698	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.324	18.322	(1.002)	215319	5.63468	1121
72 bis(2-Ethylhexyl)phthalate	149	18.585	18.573	(0.952)	839957	30.7308	6116(M)
* 134 Di-n-octylphthalate-d4	153	19.520	19.503	(1.000)	798012	20.0000	
73 Di-n-octylphthalate	149	19.536	19.514	(1.001)	73459	1.54952	308.4(M)
74 Benzo(b)fluoranthene	252	19.921	19.898	(0.975)	225871	6.26076	1246(M)
75 Benzo(k)fluoranthene	252	19.937	19.930	(0.975)	159948	4.61512	918.4(M)
76 Benzo(a)pyrene	252	20.354	20.336	(0.996)	151039	4.18268	832.4
* 77 Perylene-d12	264	20.439	20.416	(1.000)	556424	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.791	21.768	(1.066)	118725	2.78094	553.4(M)
79 Dibenzo(a,h)anthracene	278	21.812	21.789	(1.067)	22945	0.64890 LAL	129.1(MH)
80 Benzo(g,h,i)perylene	276	22.106	22.078	(1.082)	120978	3.09330	615.6(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56adl.d
Lab Smp Id: KZ56A
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9547

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC11-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	228052	4.76
27 Naphthalene-d8	775413	387706	1550826	813350	4.89
42 Acenaphthene-d10	371068	185534	742136	402936	8.59
59 Phenanthrene-d10	554165	277082	1108330	566329	2.20
69 Chrysene-d12	436021	218010	872042	505698	15.98
134 Di-n-octylphthala	773344	386672	1546688	798012	3.19
77 Perylene-d12	622369	311184	1244738	556424	-10.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.80	-0.06
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.02
42 Acenaphthene-d10	11.66	11.16	12.16	11.65	-0.03
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	0.01
69 Chrysene-d12	18.28	17.78	18.78	18.29	0.07
134 Di-n-octylphthala	19.50	19.00	20.00	19.52	0.09
77 Perylene-d12	20.42	19.92	20.92	20.44	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

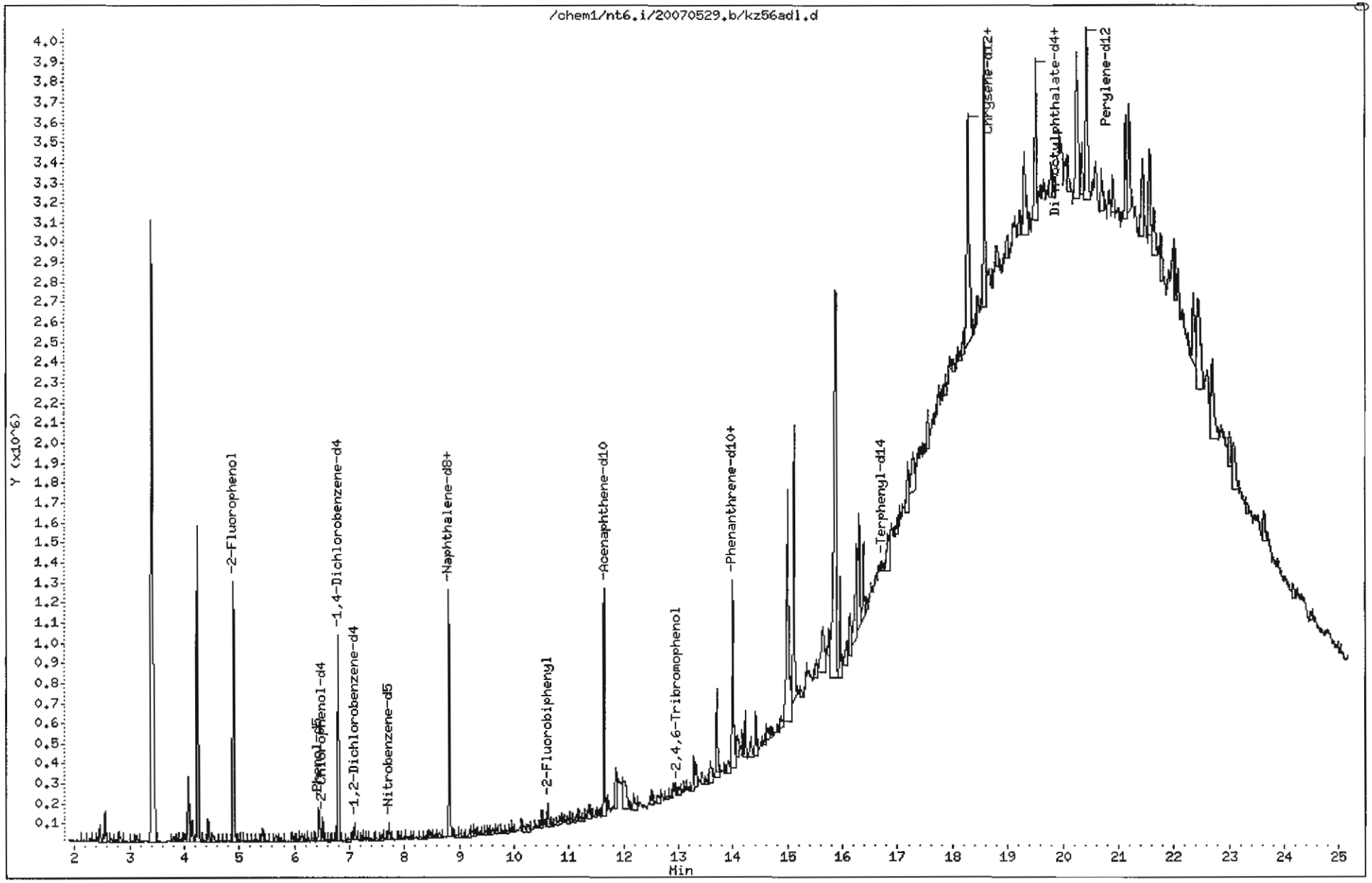
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56A
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9547

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC11-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	746.3	449.4	60.22	11-84
$ 2 Phenol-d5	746.3	553.5	74.17	25-86
$ 5 2-Chlorophenol-d4	746.3	510.9	68.45	23-91
$ 10 1,2-Dichlorobenzen	497.5	332.7	66.87	24-90
$ 18 Nitrobenzene-d5	497.5	381.9	76.75	26-88
$ 36 2-Fluorobiphenyl	497.5	377.6	75.89	34-91
$ 55 2,4,6-Tribromophen	746.3	534.0	71.55	25-107
$ 66 Terphenyl-d14	497.5	378.9	76.15	22-100

Data File: /chem1/nt6.i/20070529.b/kz56ad1.d
Date : 29-MAY-2007 09:20
Client ID: Y3-RC11-S
Sample Info: KZ56A,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0220

Data File: /chem1/nt6.i/20070529.b/kz56ad1.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

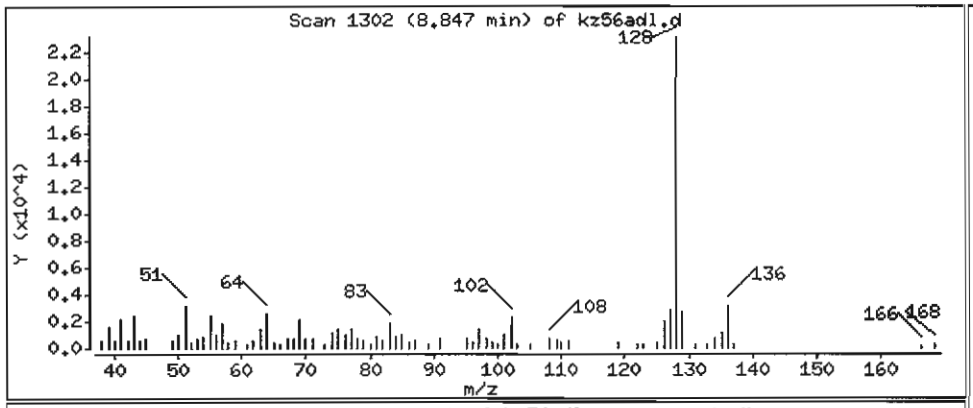
Operator: LJR/VTS

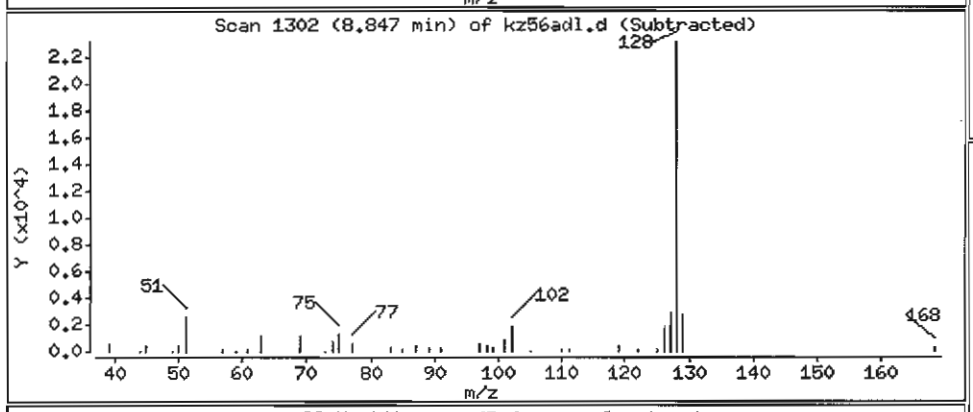
Column phase: ZB-5

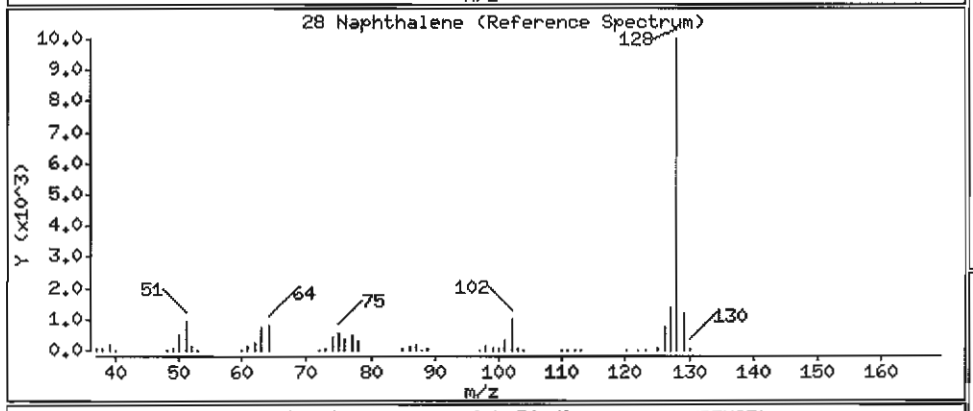
Column diameter: 0.32

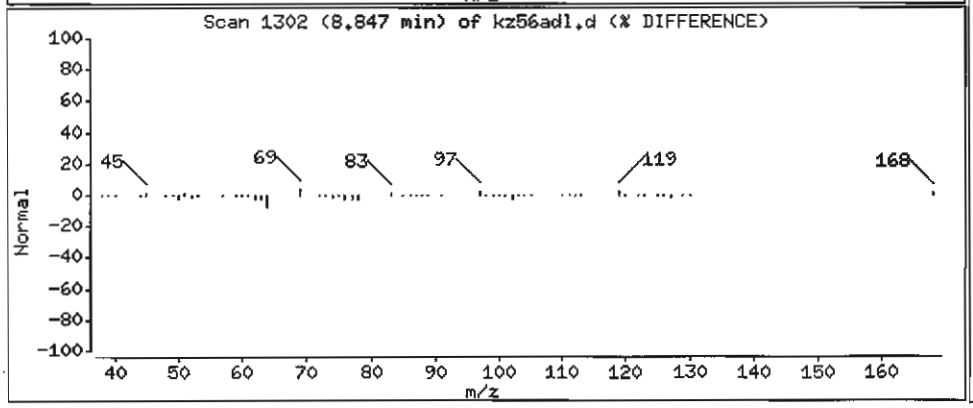
28 Naphthalene

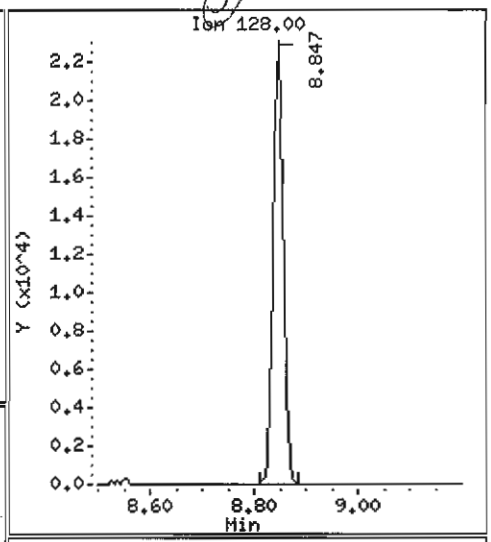
Concentration: 126.3 ug/kg

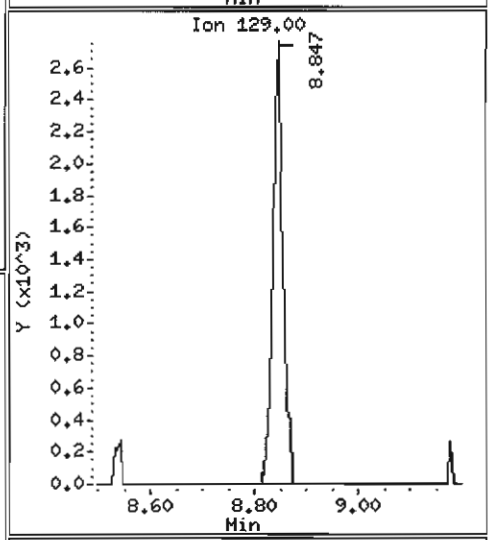


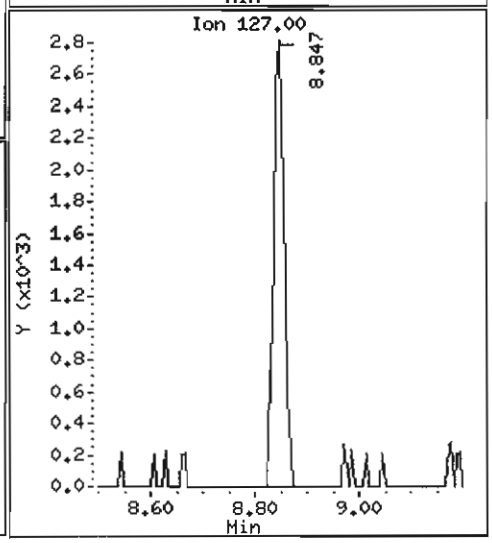












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

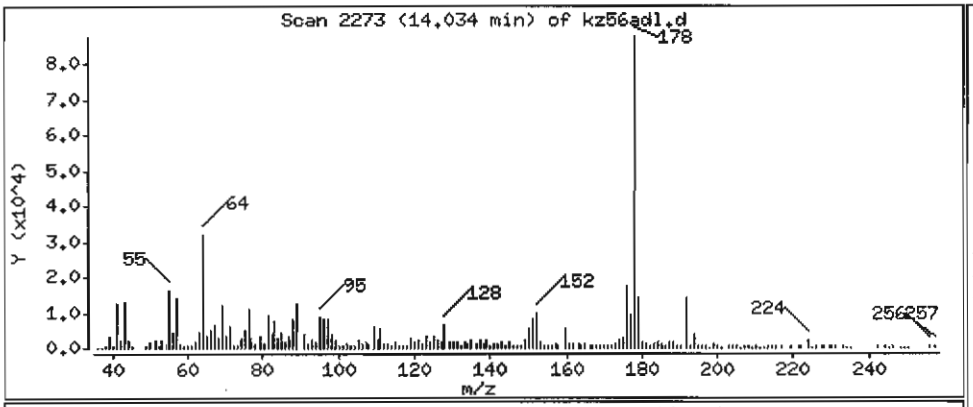
Operator: LJR/VTS

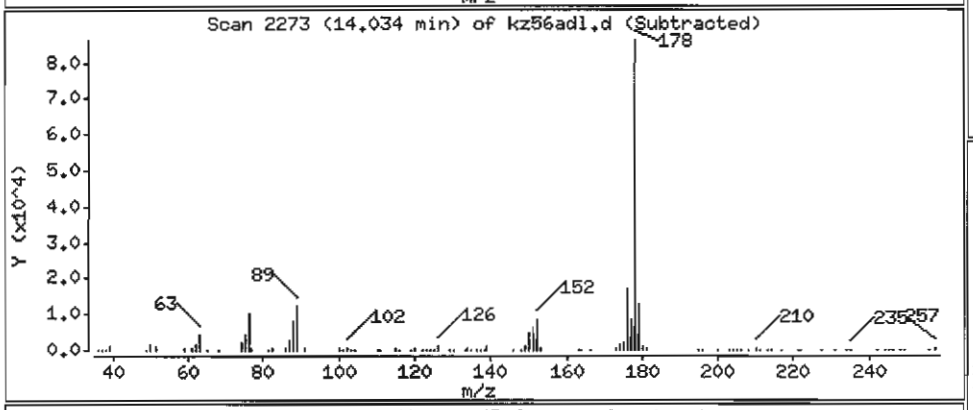
Column phase: ZB-5

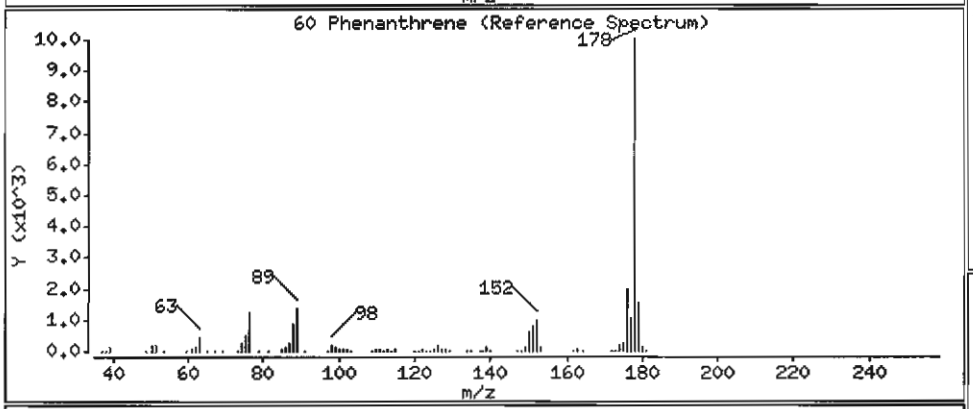
Column diameter: 0.32

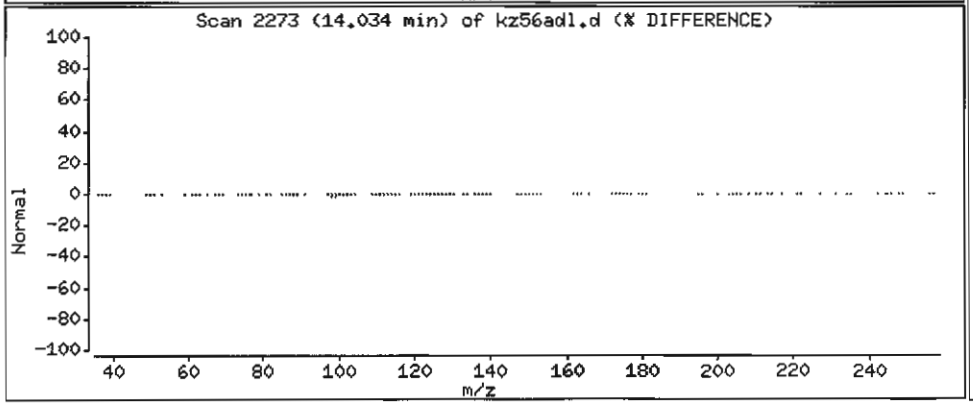
60 Phenanthrene

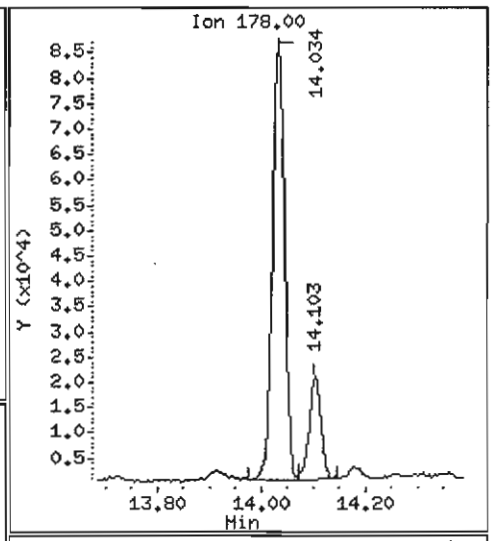
Concentration: 717.6 ug/kg

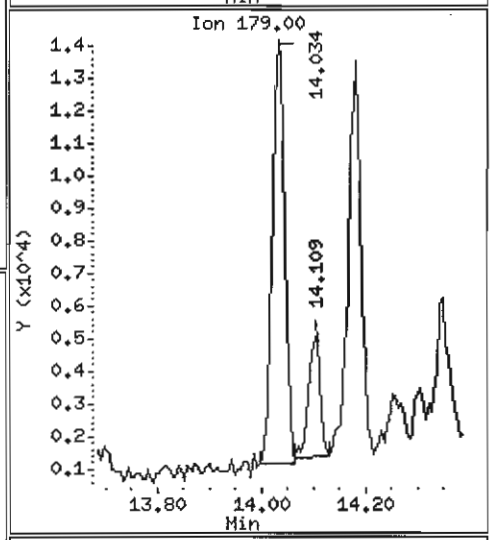


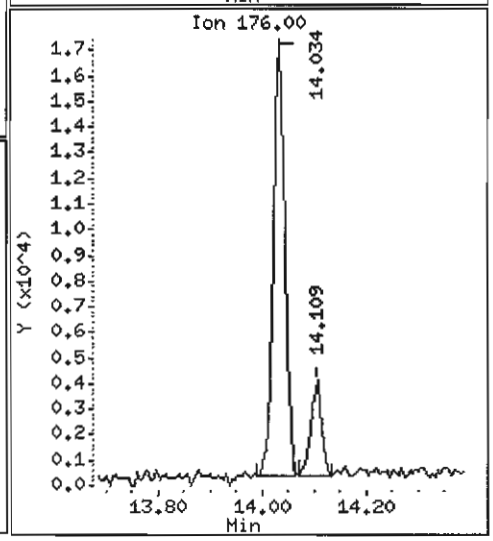












Data File: /chem1/nt6.i/20070529.b/kz56ad1.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

Operator: LJR/VTS

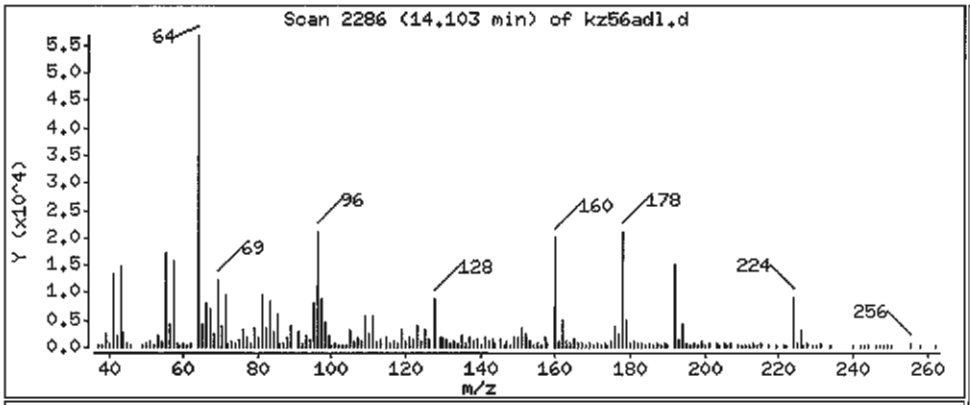
Column phase: ZB-5

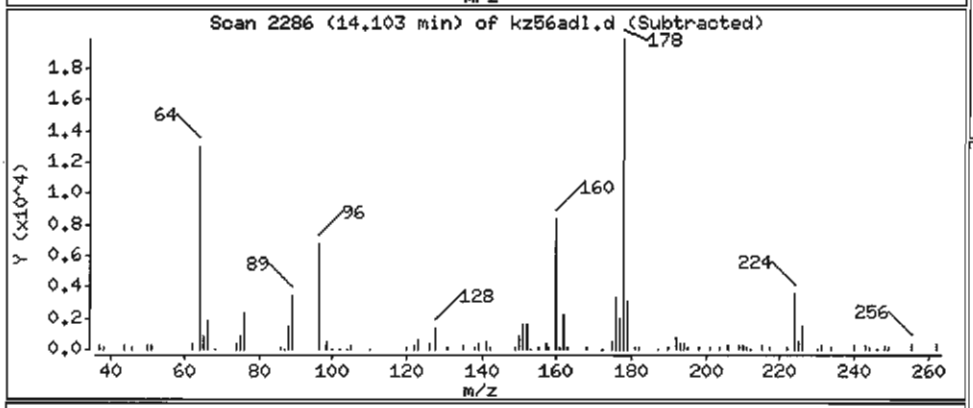
Column diameter: 0.32

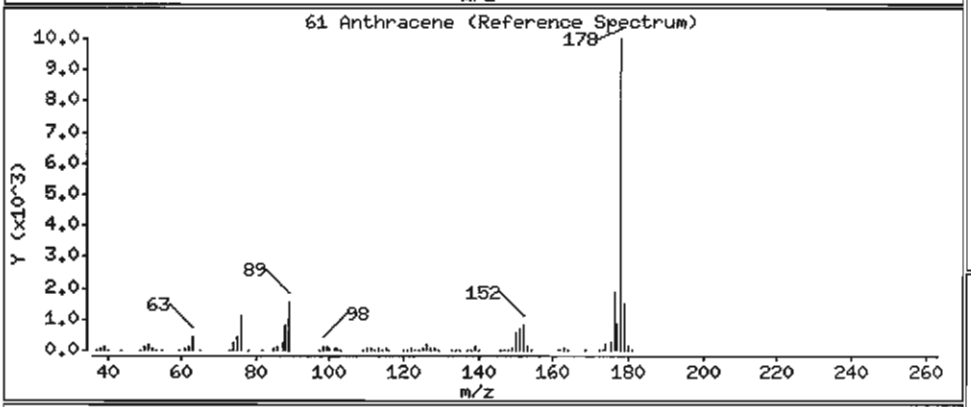
61 Anthracene

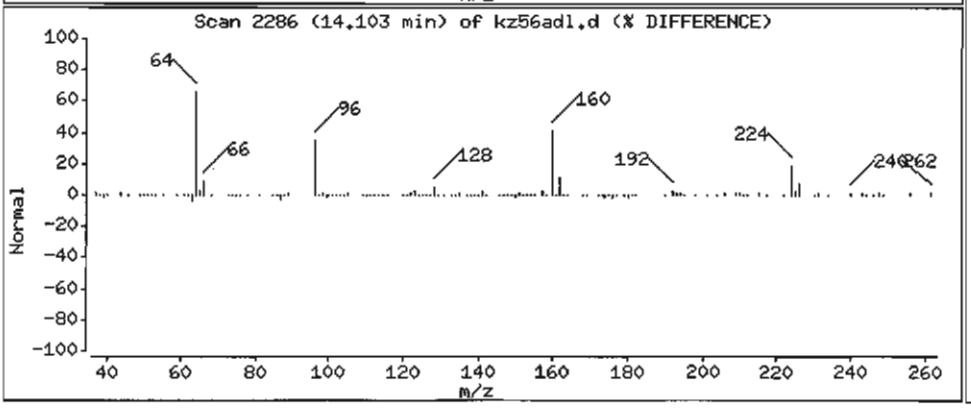
Concentration: 168.5 ug/kg

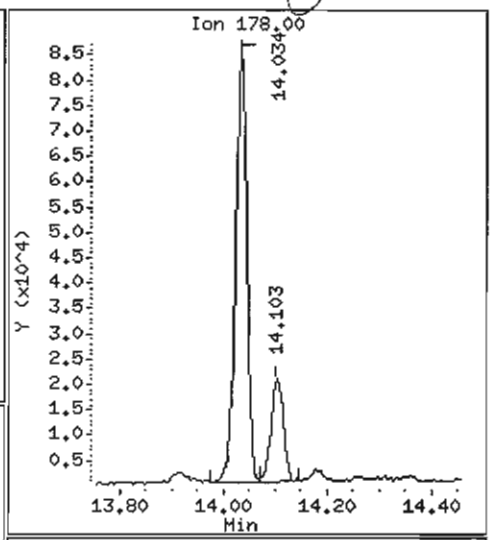
JLR

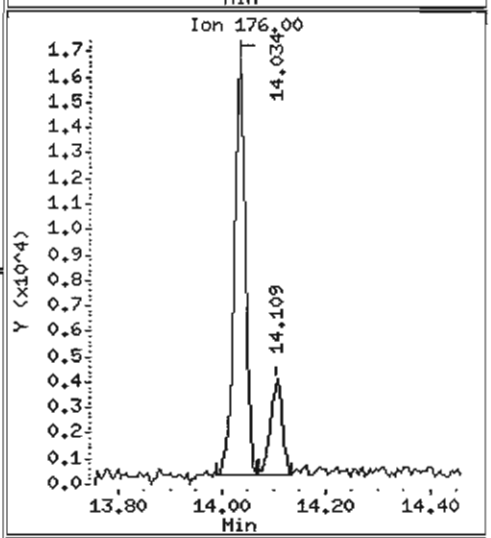


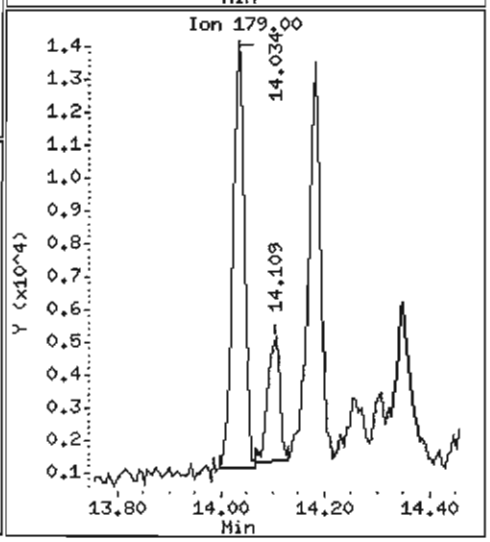












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

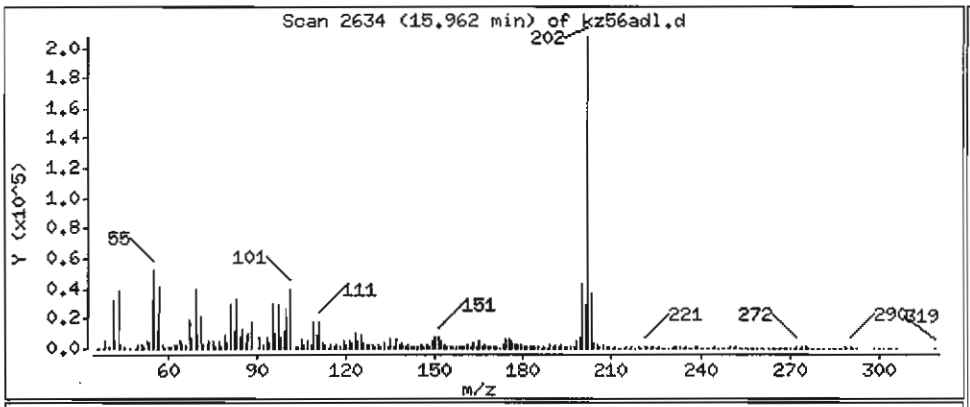
Operator: LJR/VTS

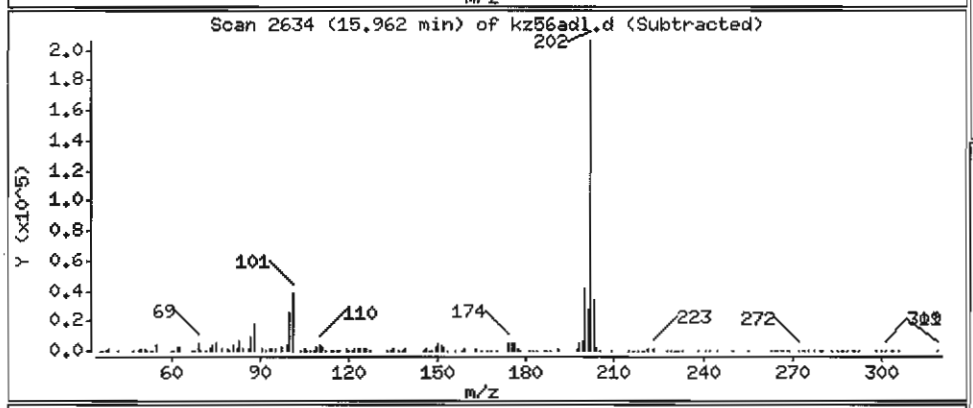
Column phase: ZB-5

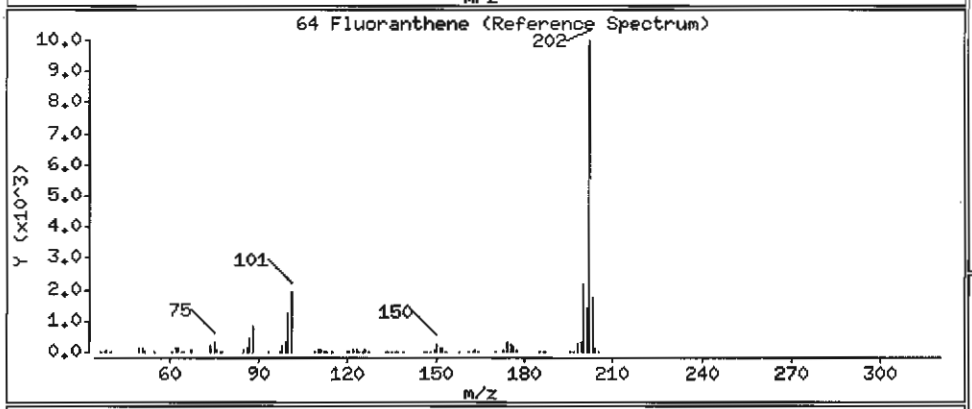
Column diameter: 0.32

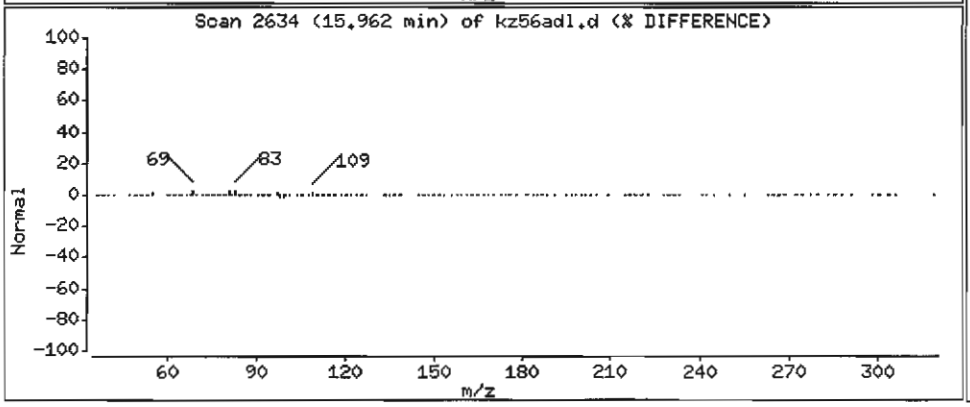
64 Fluoranthene

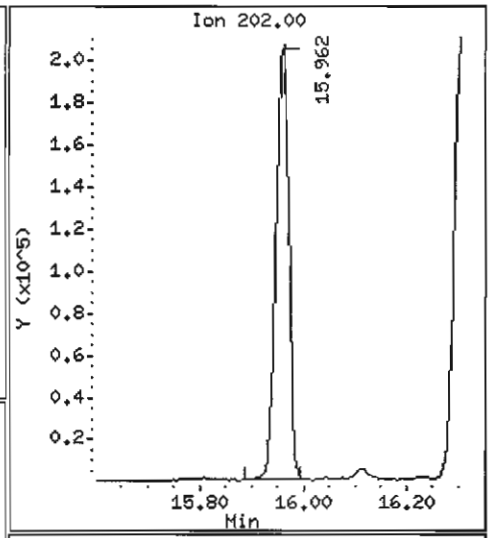
Concentration: 1940 ug/kg

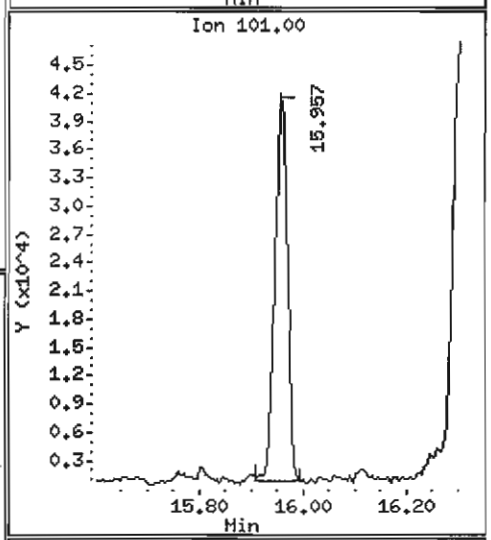


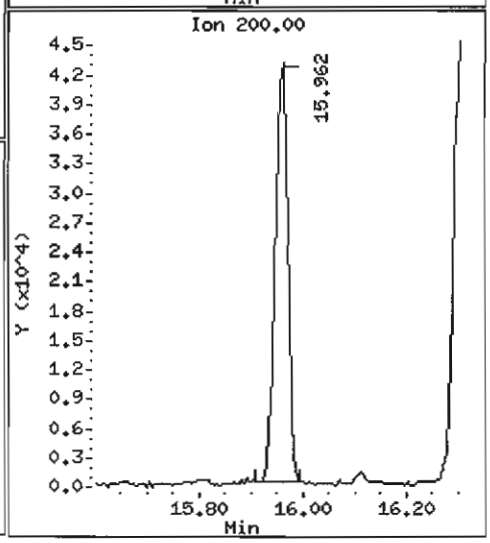












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

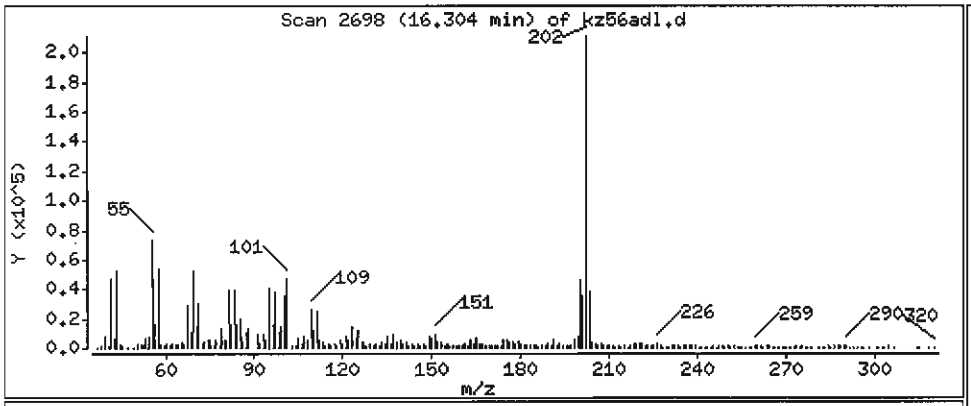
Operator: LJR/VTS

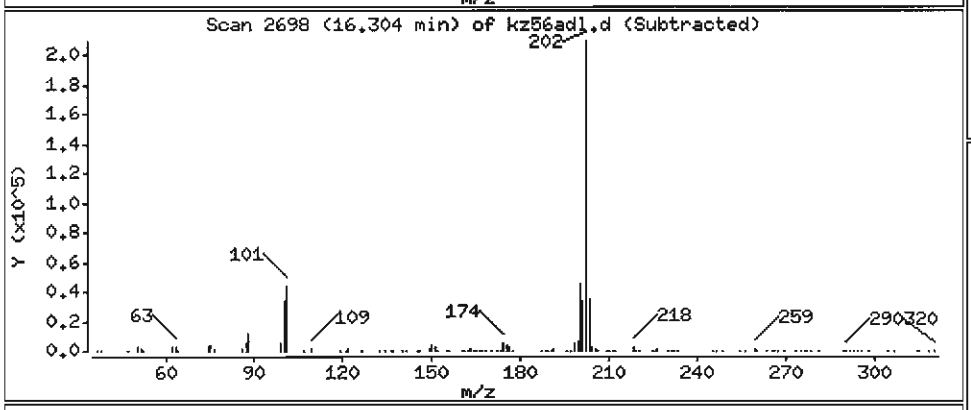
Column phase: ZB-5

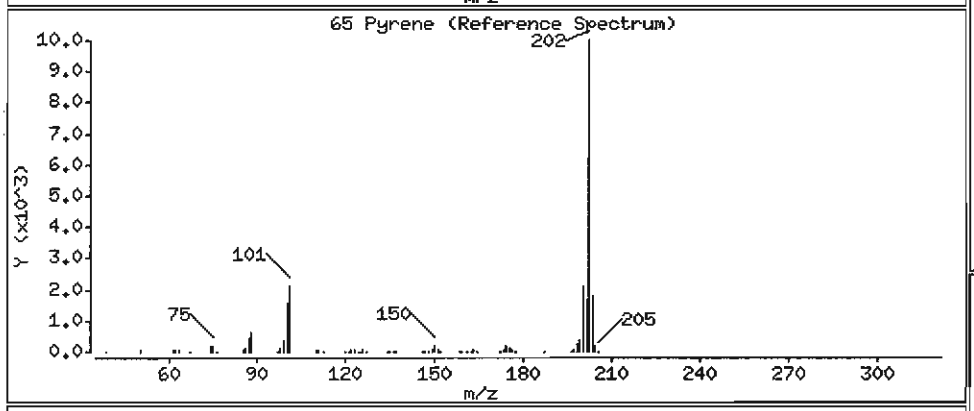
Column diameter: 0.32

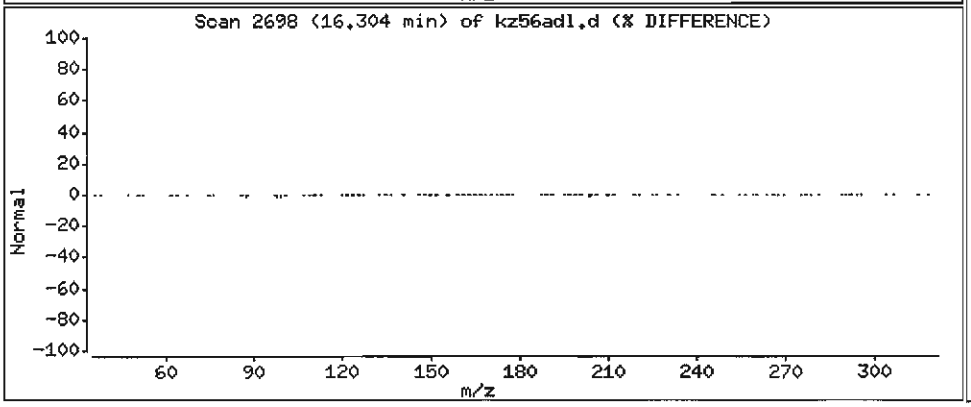
65 Pyrene

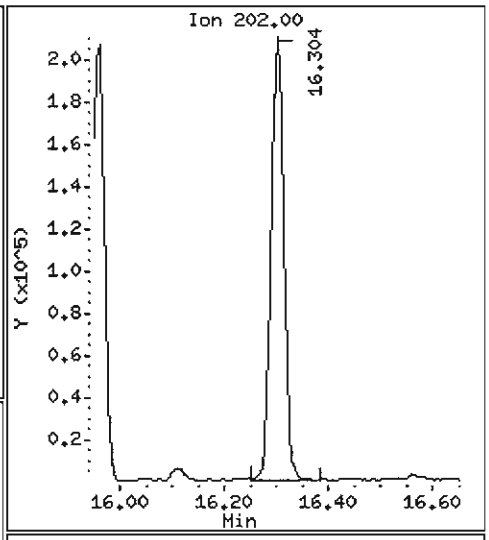
Concentration: 1671 ug/kg

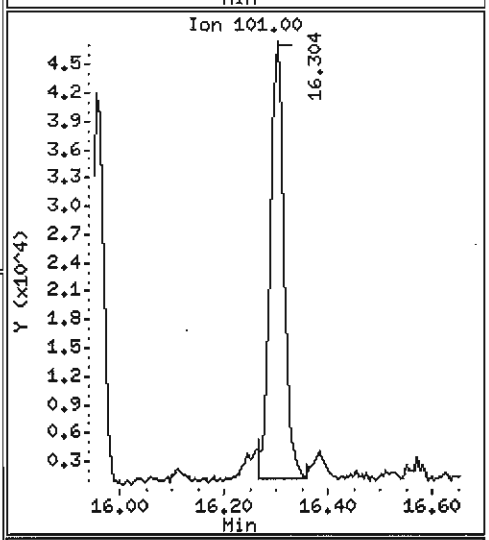


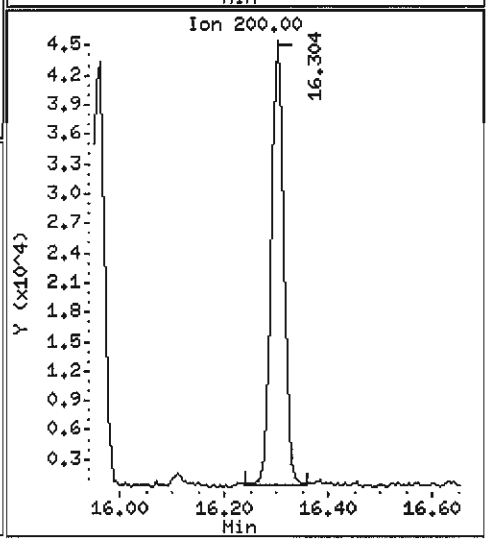












Data File: /chem1/nt6.i/20070529.b/kz56ad1.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

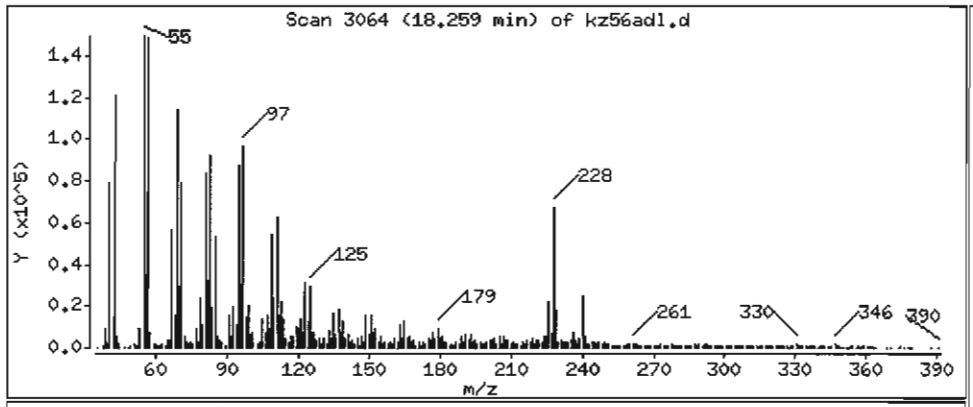
Operator: LJR/VTS

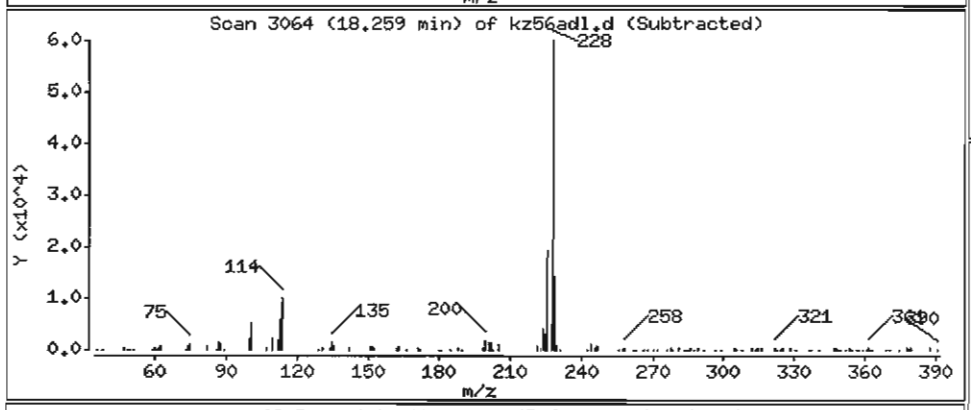
Column phase: ZB-5

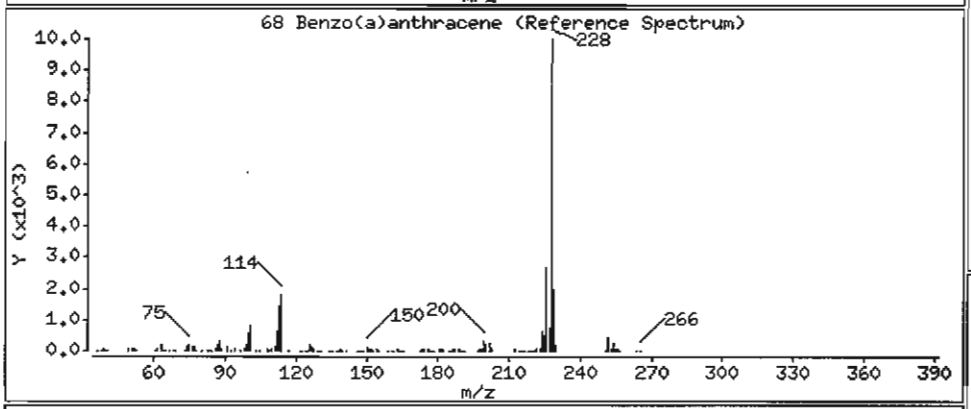
Column diameter: 0.32

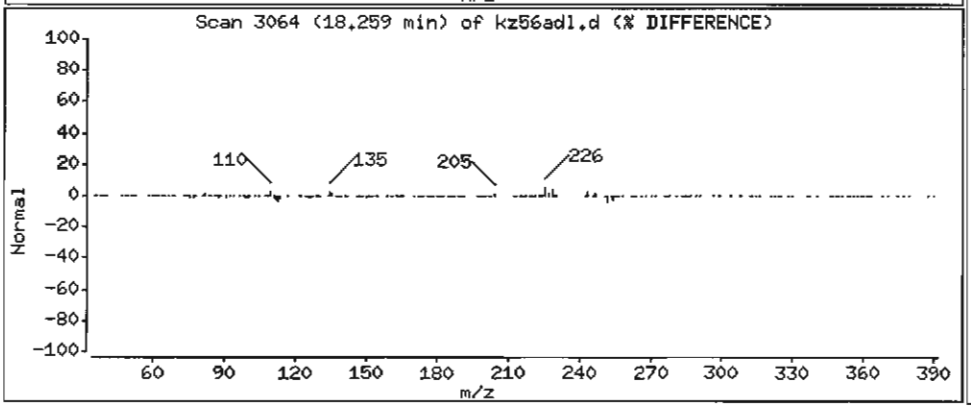
68 Benzo(a)anthracene

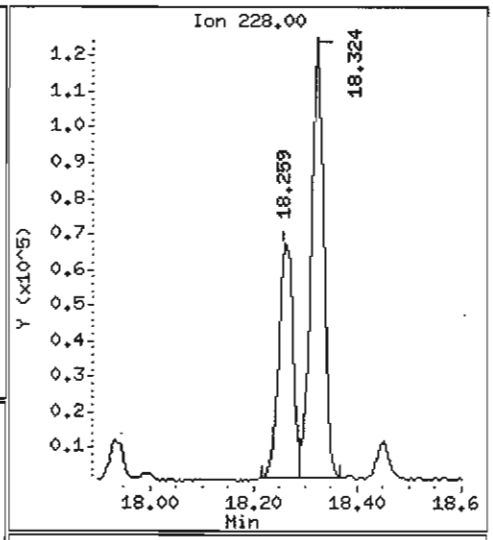
Concentration: 678.7 ug/kg

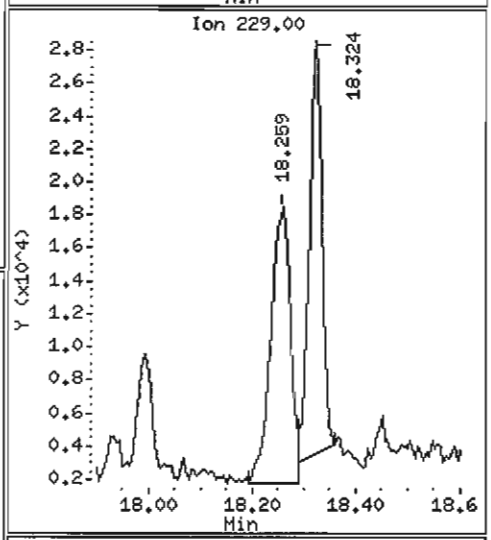


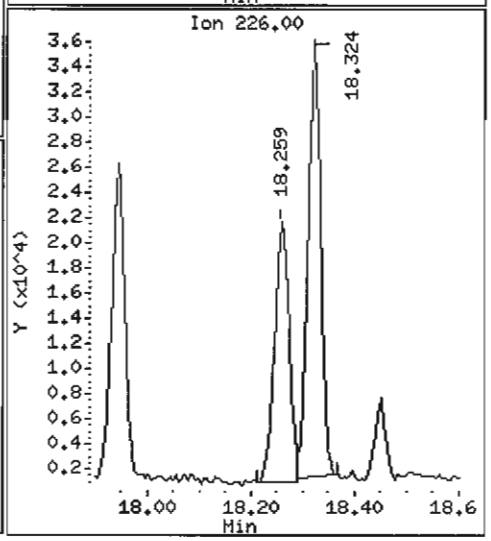












Data File: /chem1/nt6.i/20070529.b/kz56ad1.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

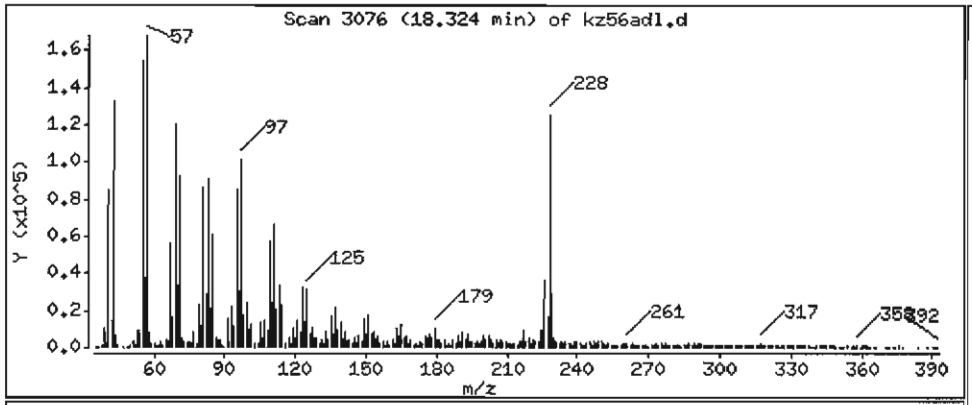
Operator: LJR/VTS

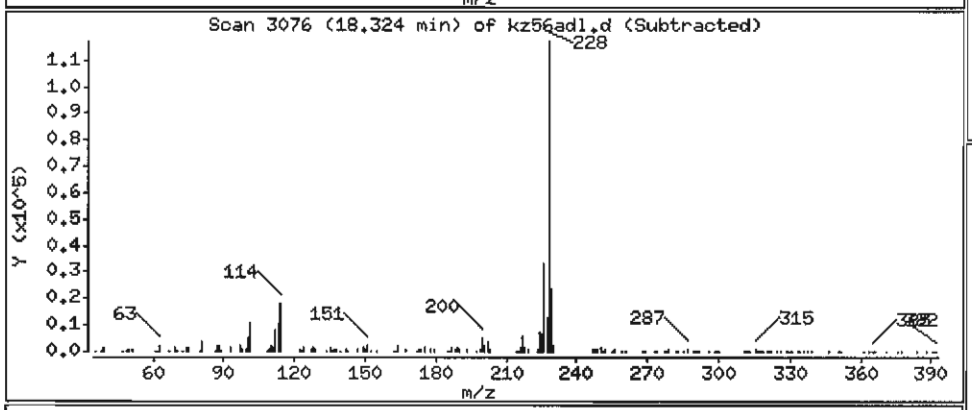
Column phase: ZB-5

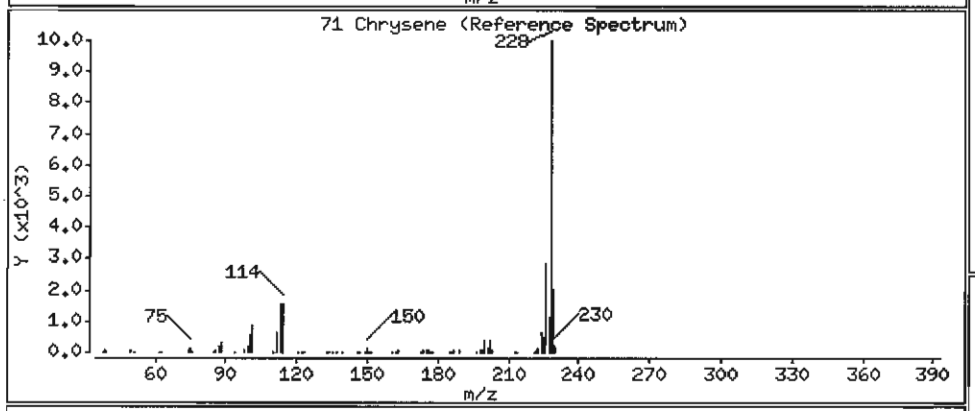
Column diameter: 0.32

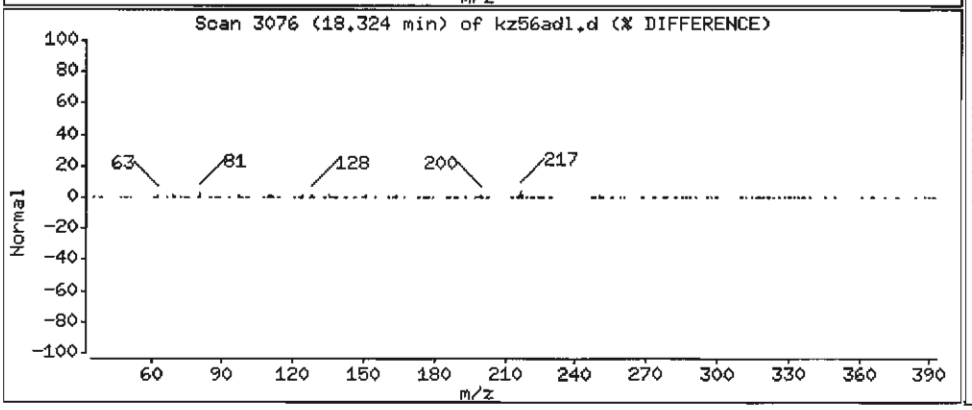
71 Chrysene

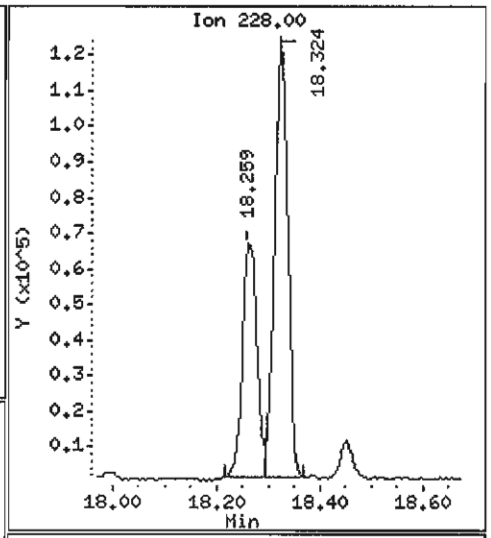
Concentration: 1121 ug/kg

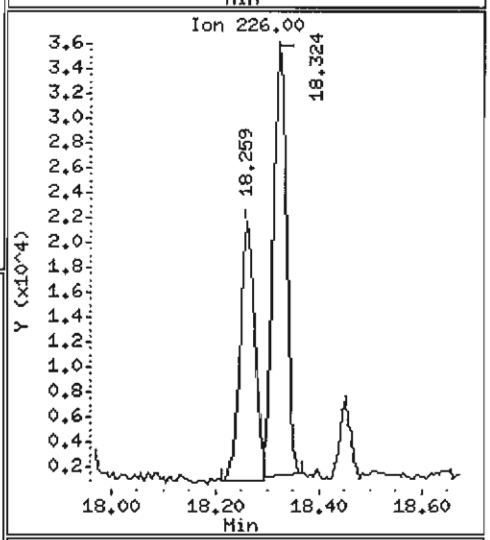


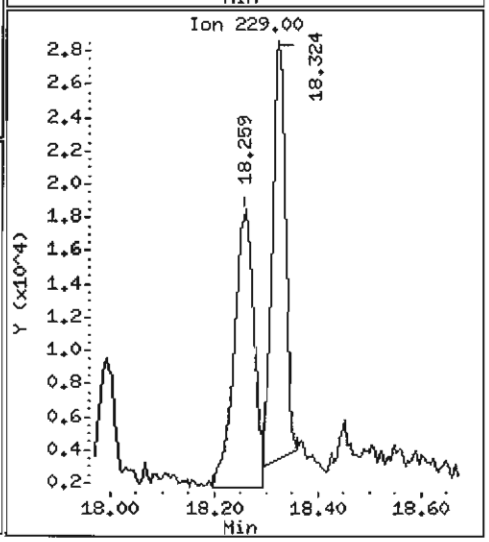












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

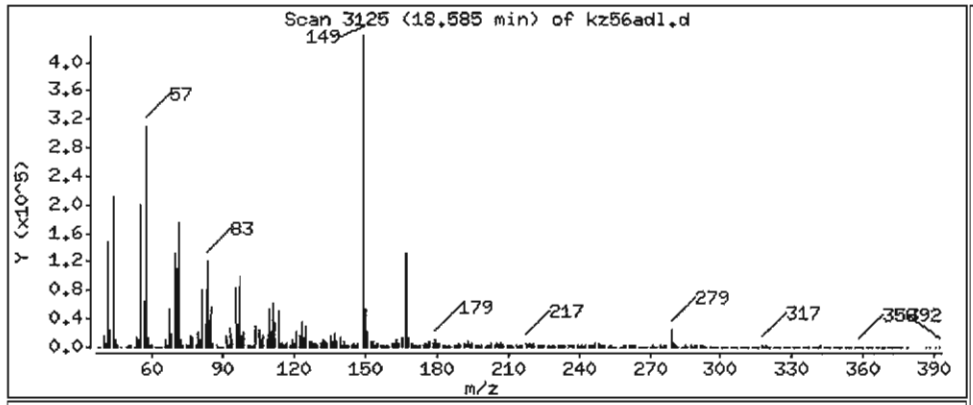
Operator: LJR/VTS

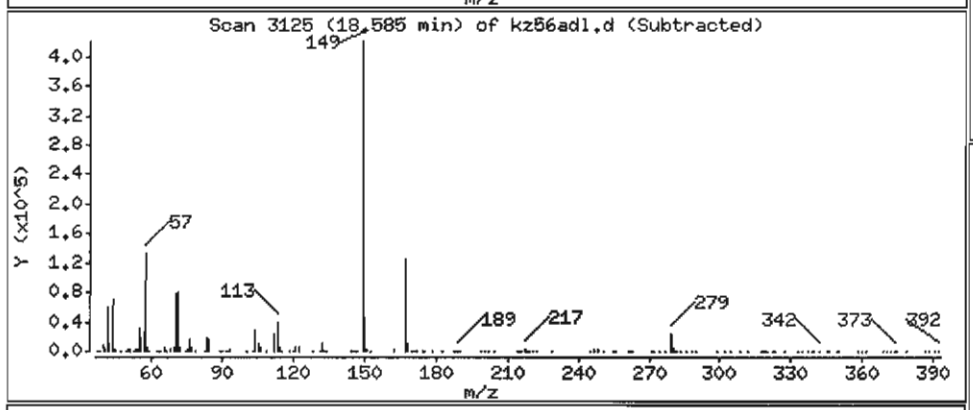
Column phase: ZB-5

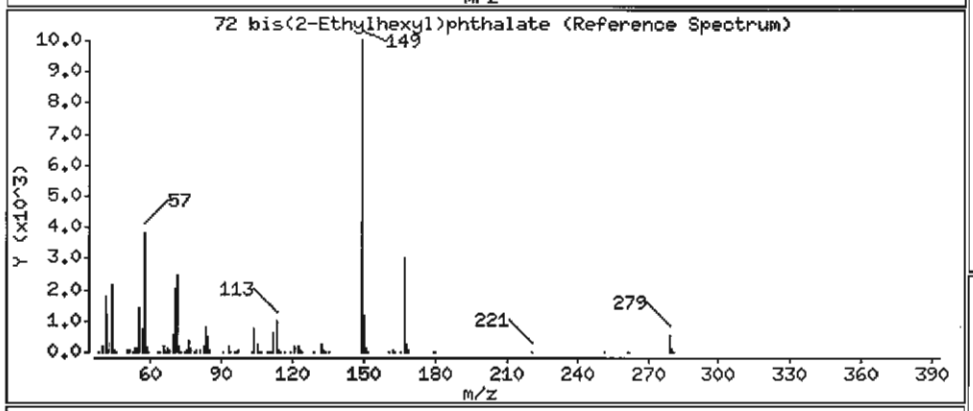
Column diameter: 0.32

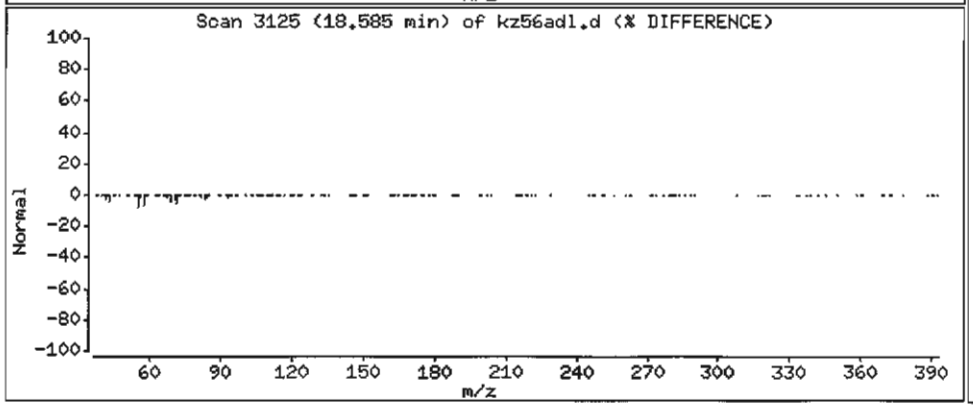
72 bis(2-Ethylhexyl)phthalate

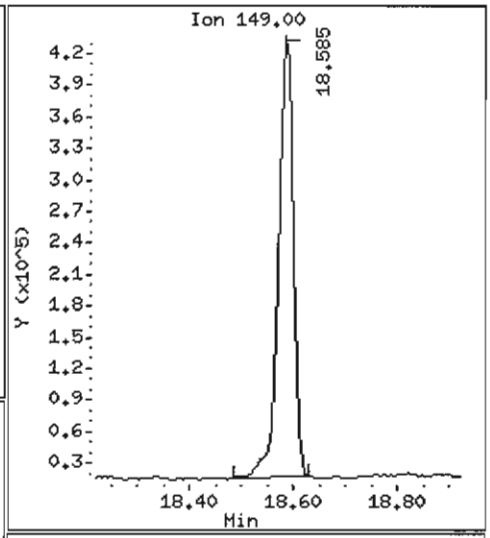
Concentration: 6116 ug/kg

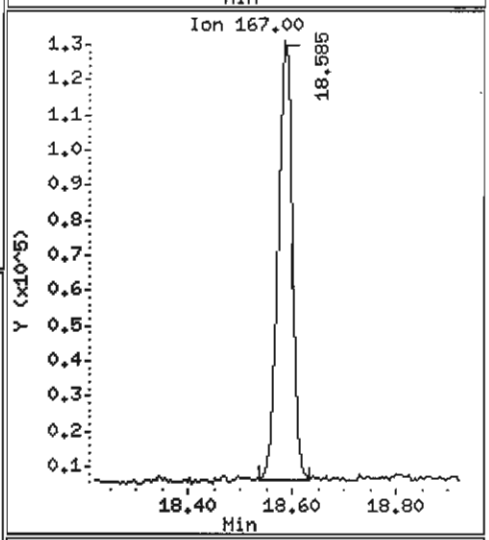


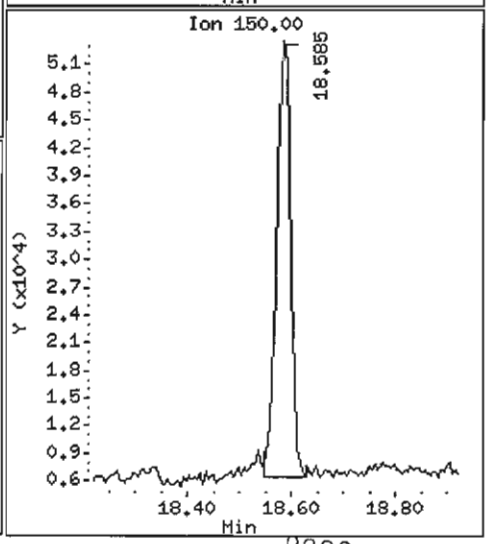












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

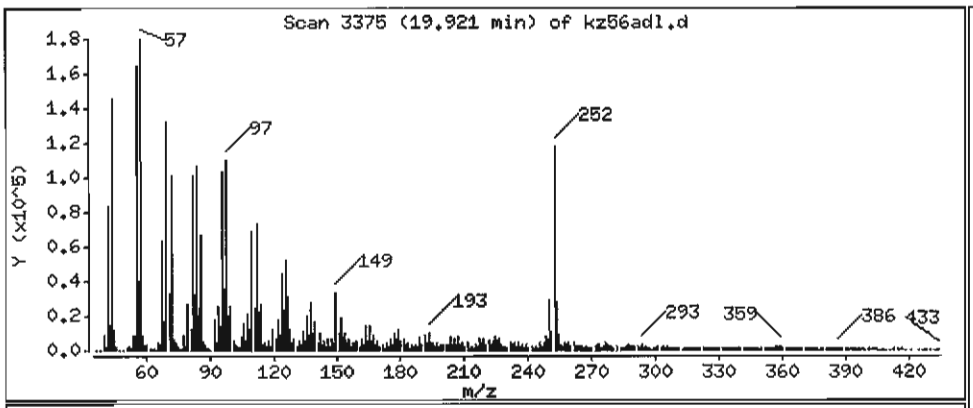
Operator: LJR/VTS

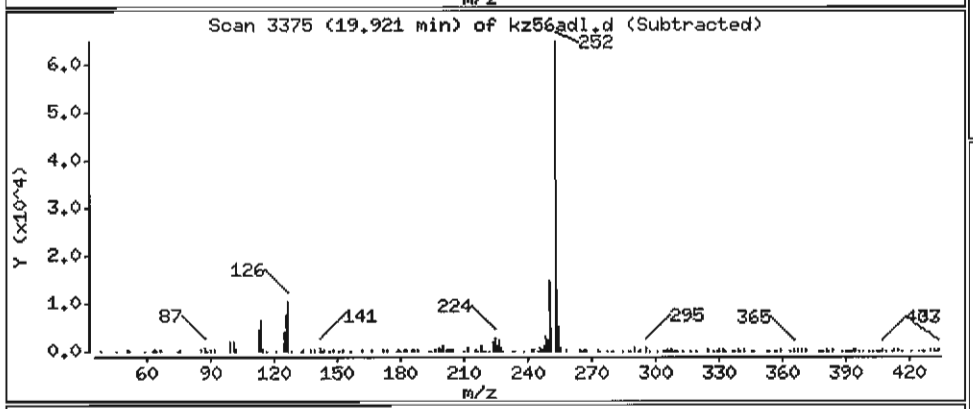
Column phase: ZB-5

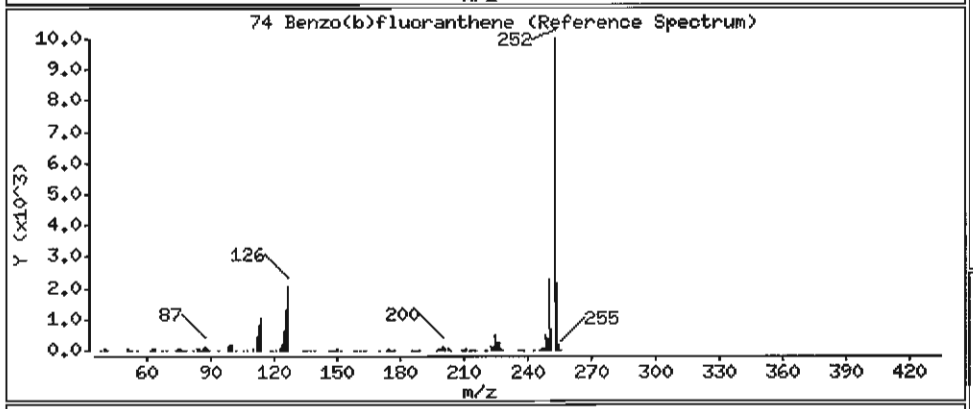
Column diameter: 0.32

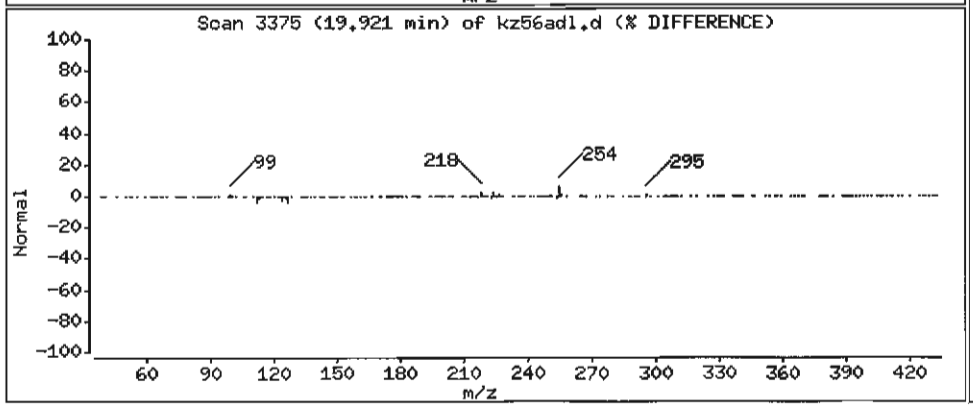
74 Benzo(b)fluoranthene

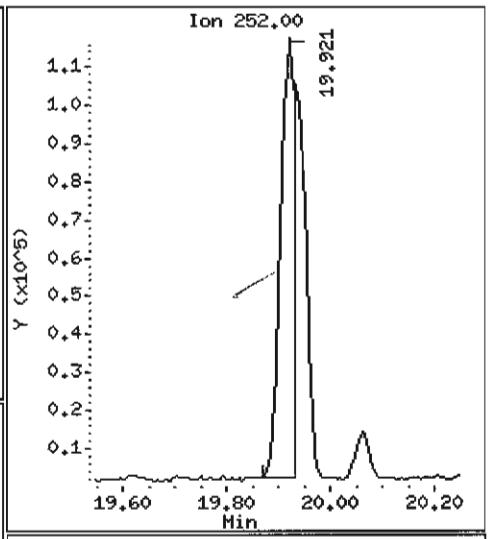
Concentration: 1246 ug/kg

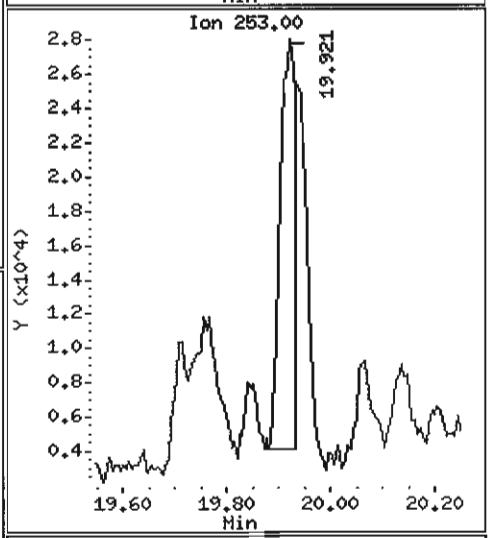


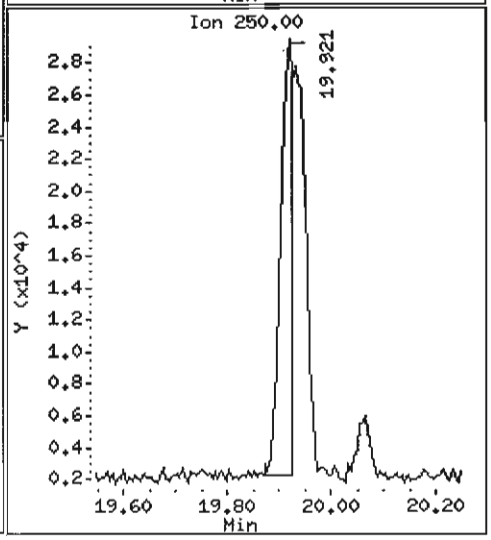












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

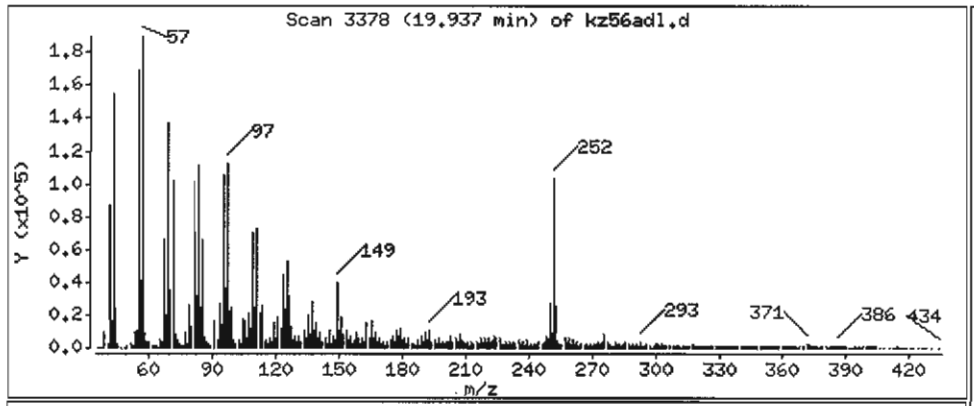
Operator: LJR/VTS

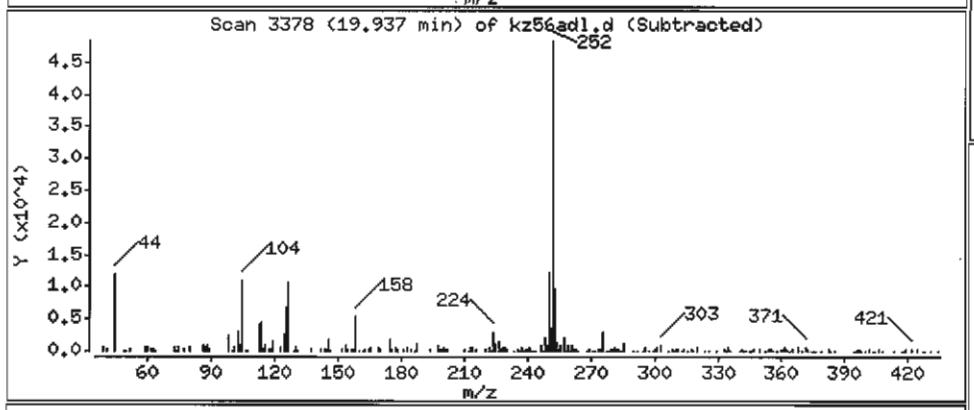
Column phase: ZB-5

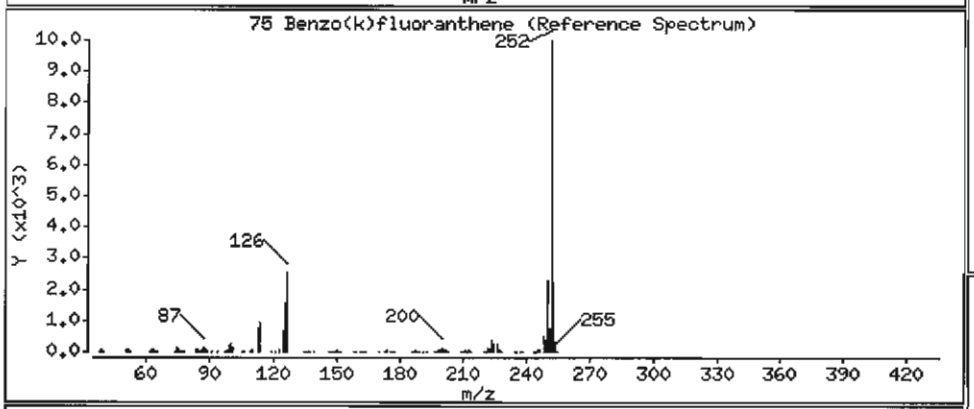
Column diameter: 0.32

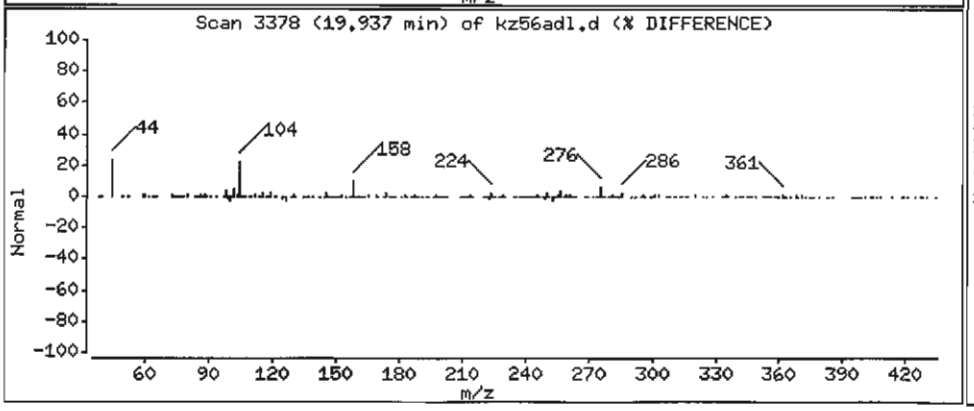
75 Benzo(k)fluoranthene

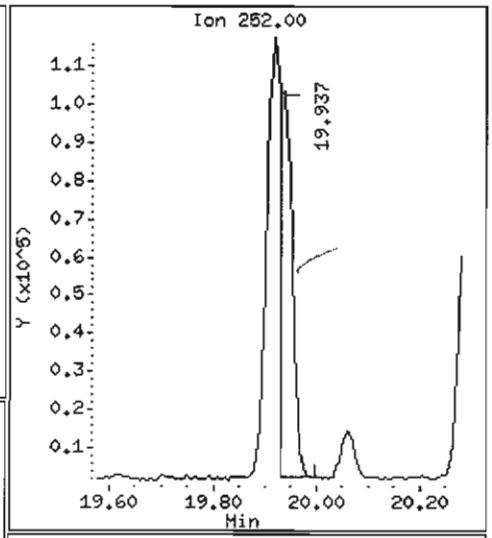
Concentration: 918.4 ug/kg

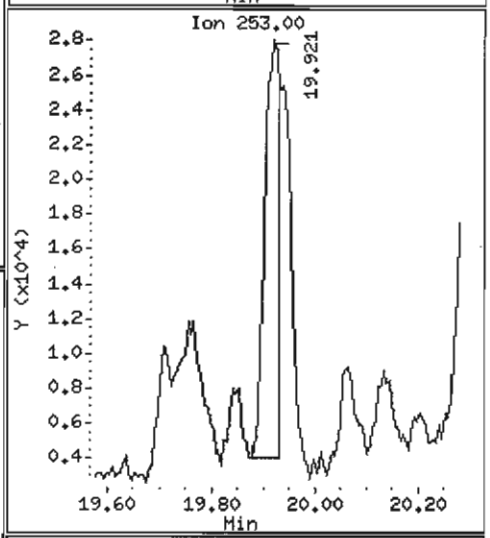


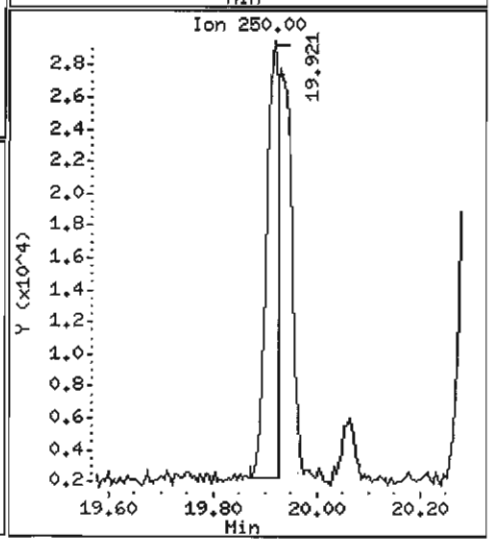












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

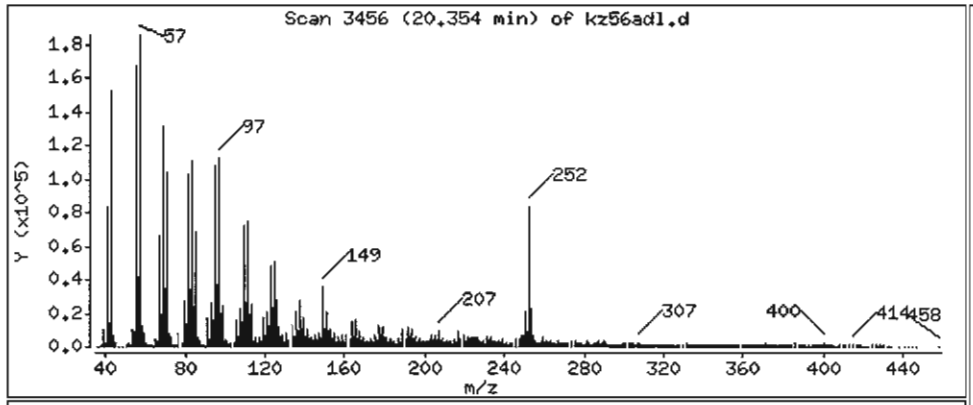
Operator: LJR/VTS

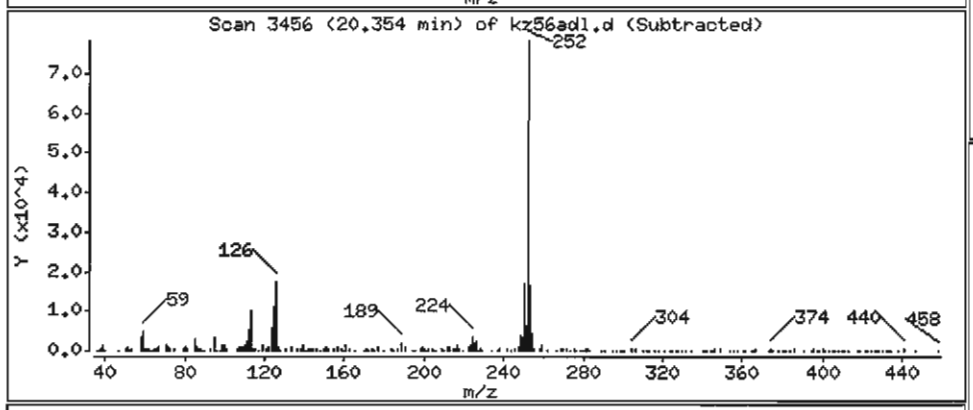
Column phase: ZB-5

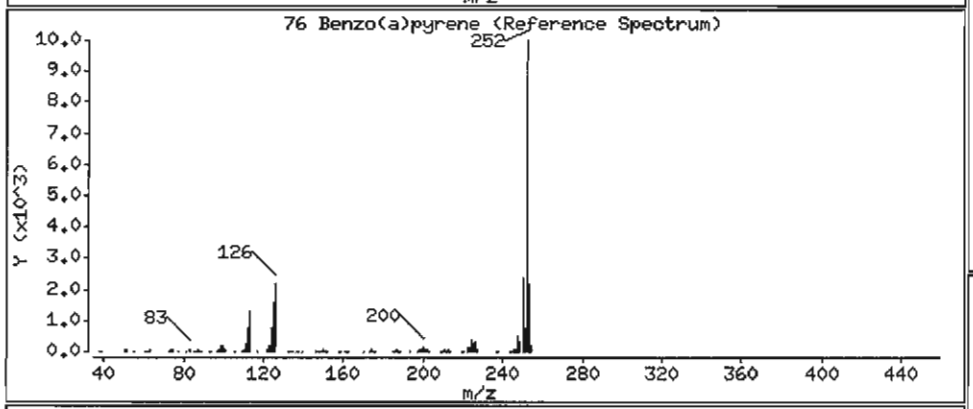
Column diameter: 0.32

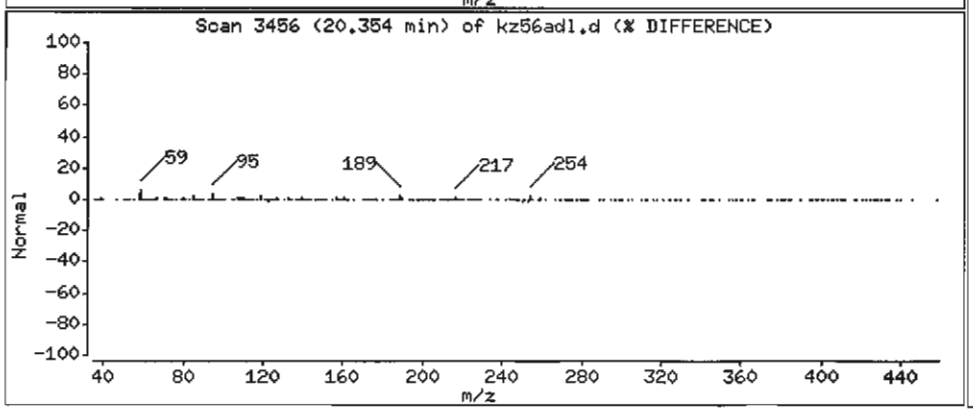
76 Benzo(a)pyrene

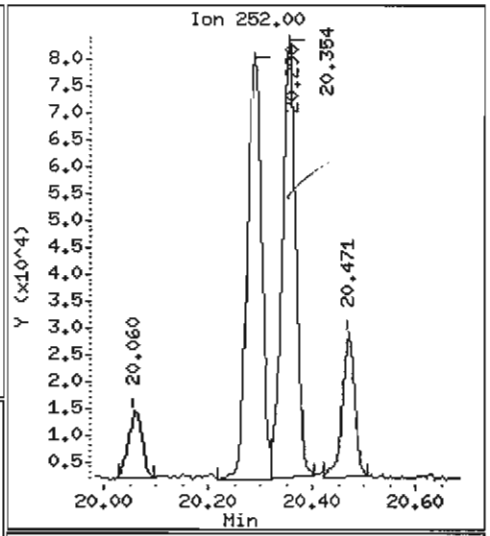
Concentration: 832.4 ug/kg

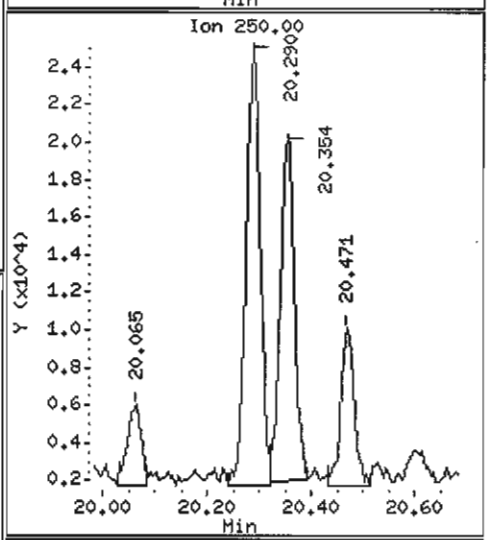


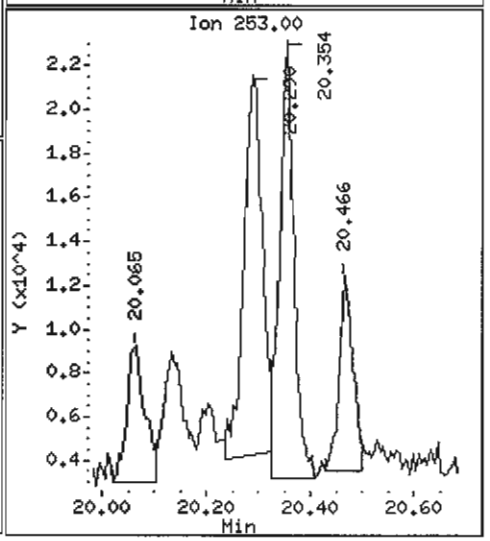












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

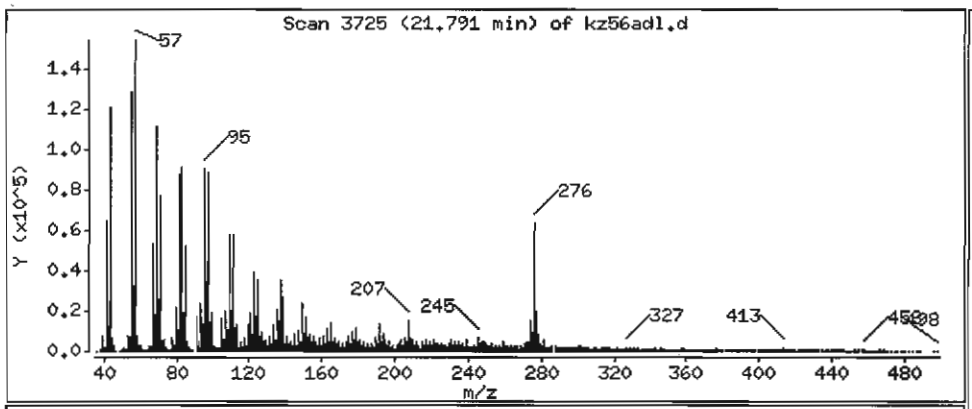
Operator: LJR/VTS

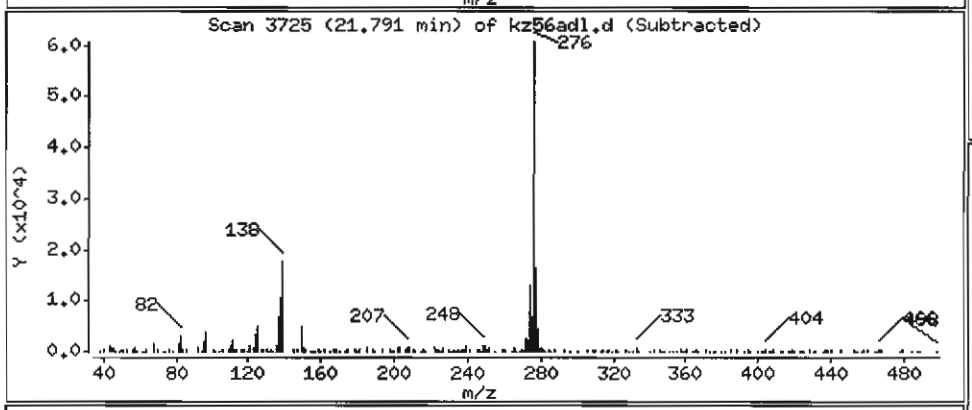
Column phase: ZB-5

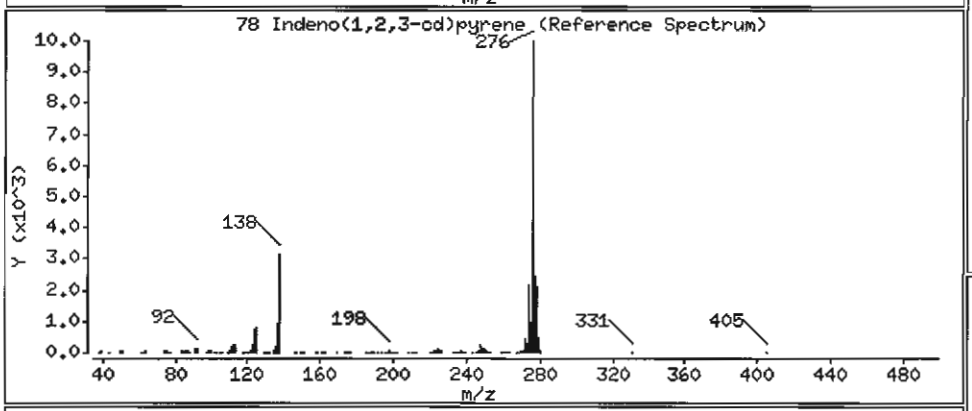
Column diameter: 0.32

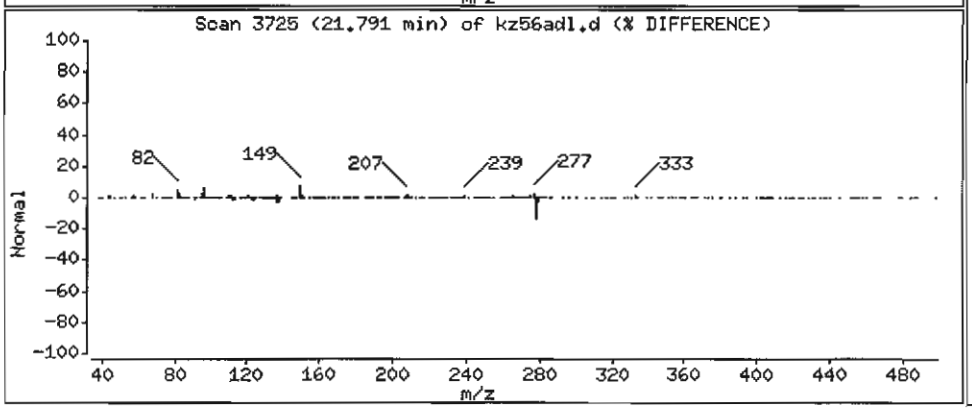
78 Indeno(1,2,3-cd)pyrene

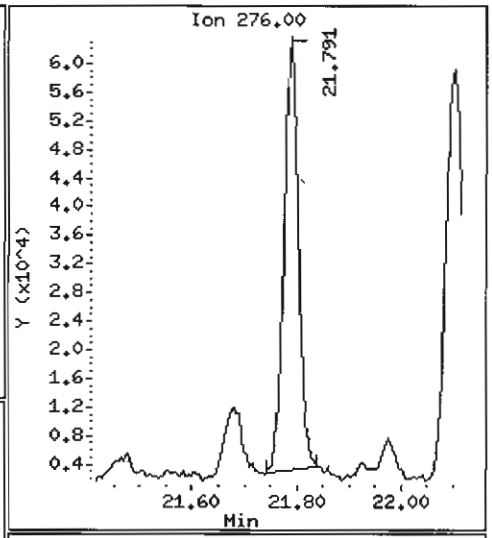
Concentration: 553.4 ug/kg

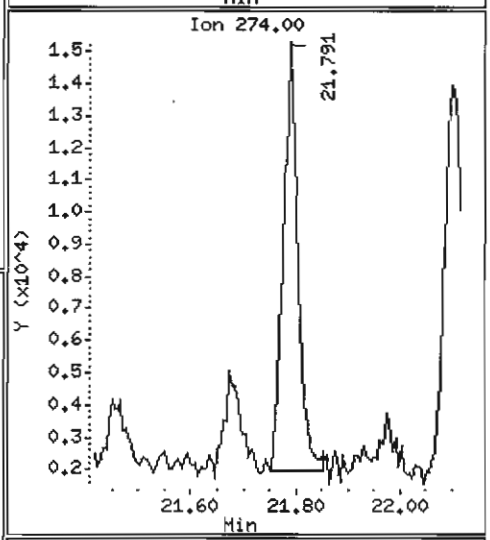


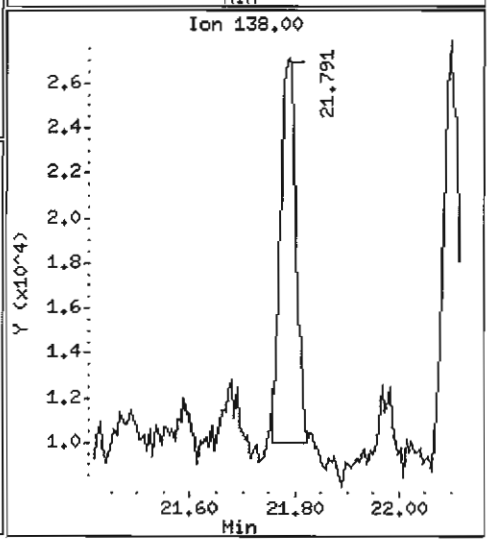












Data File: /chem1/nt6.i/20070529.b/kz56adl.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

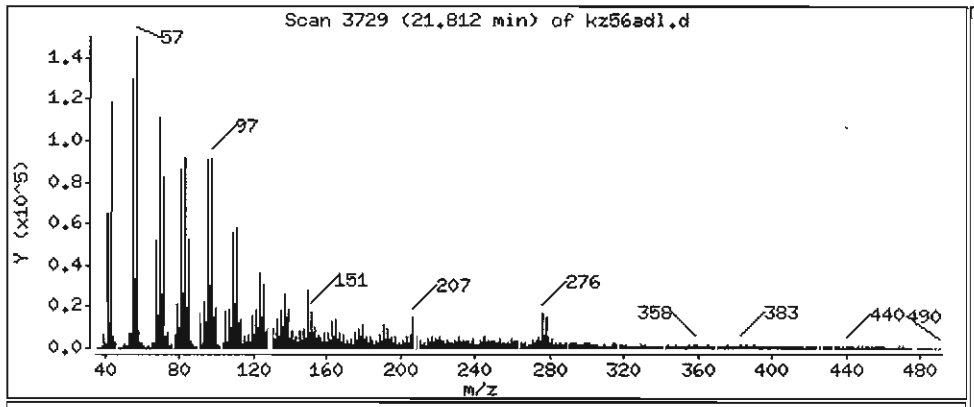
Operator: LJR/VTS

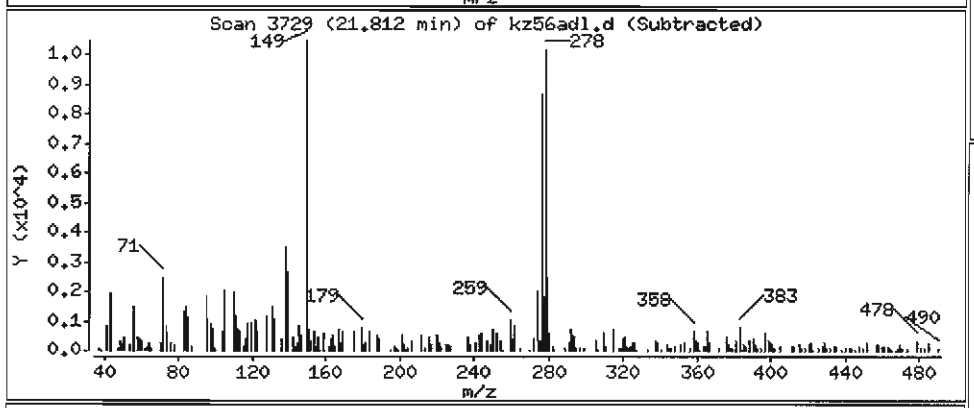
Column phase: ZB-5

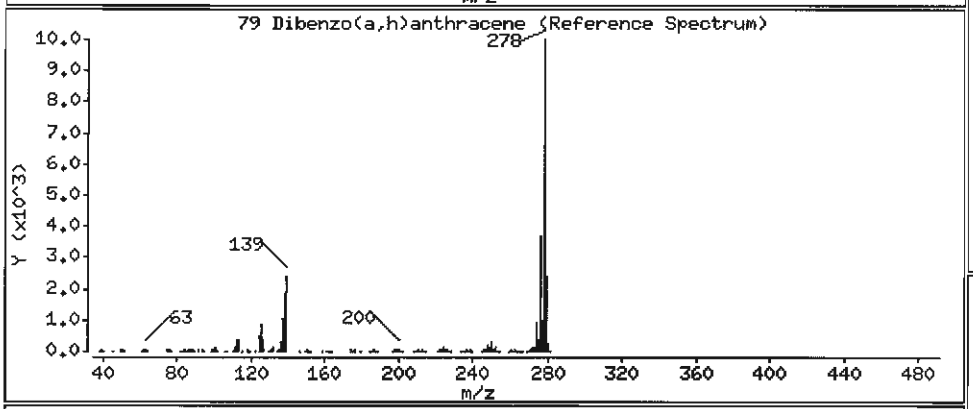
Column diameter: 0.32

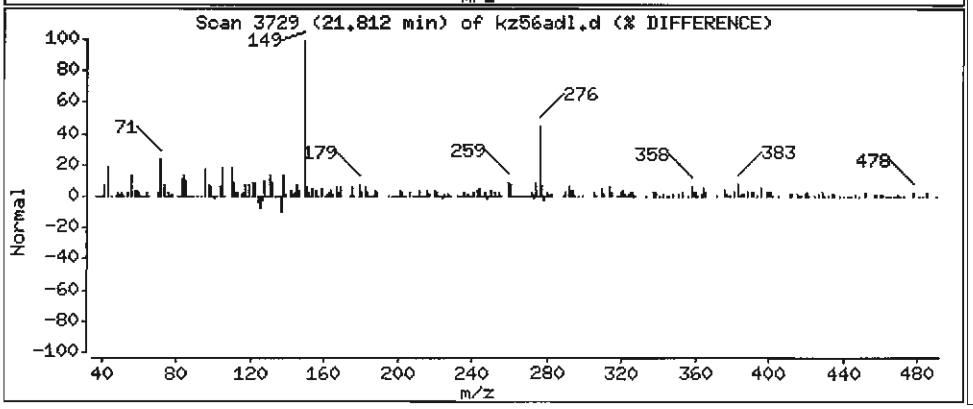
79 Dibenzo(a,h)anthracene

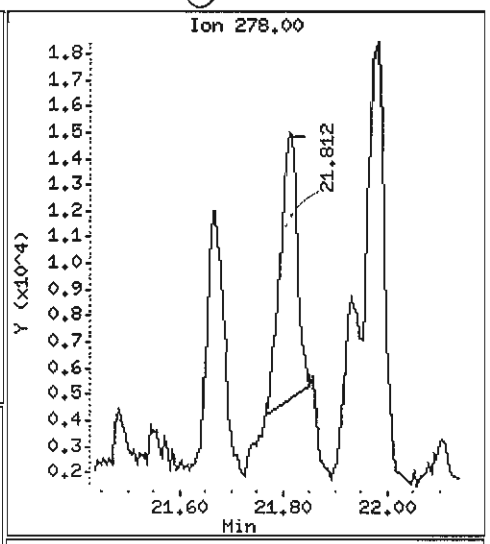
Concentration: 129.1 ug/kg

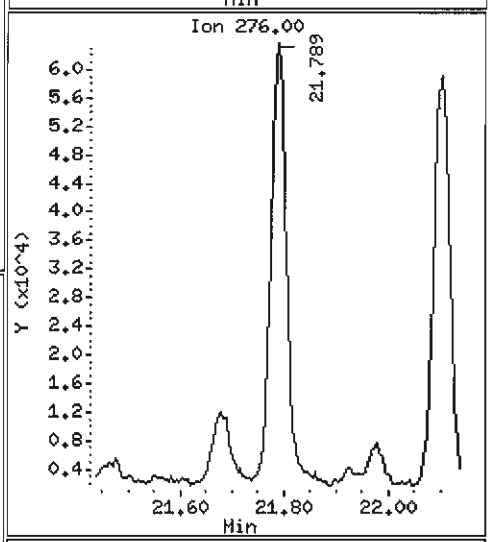


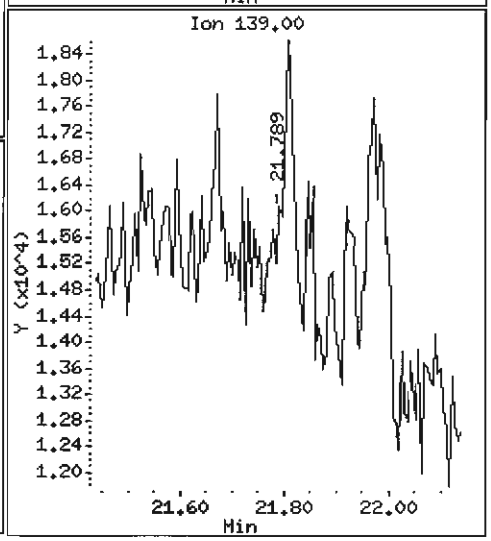












Data File: /chem1/nt6.i/20070529.b/kz56ad1.d

Date : 29-MAY-2007 09:20

Client ID: Y3-RC11-S

Instrument: nt6.i

Sample Info: KZ56A,10

Volume Injected (uL): 1.0

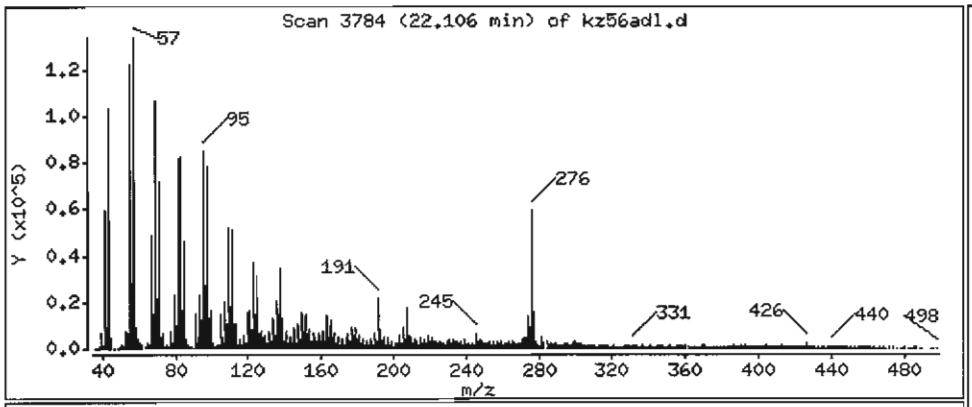
Operator: LJR/VTS

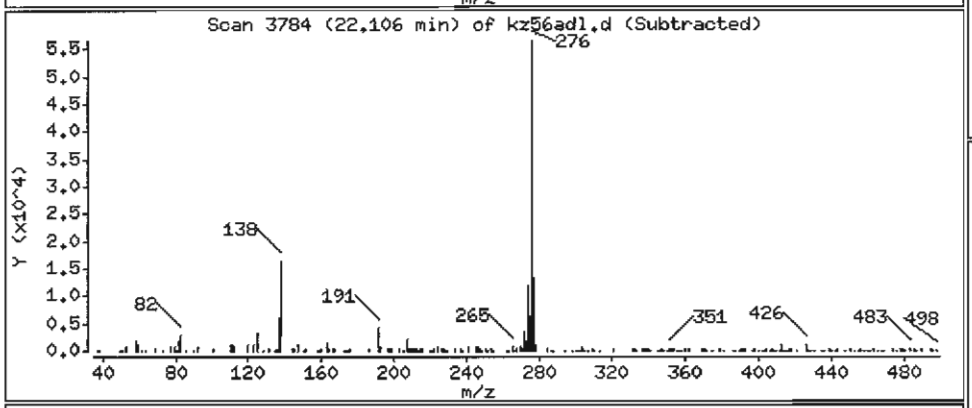
Column phase: ZB-5

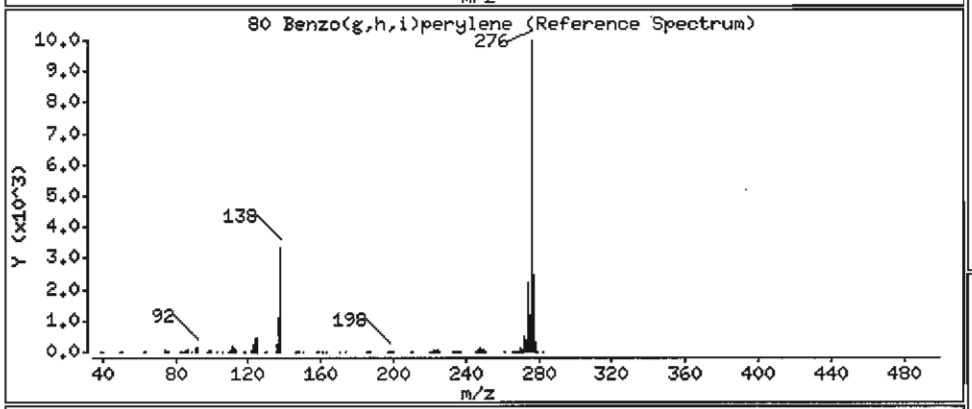
Column diameter: 0.32

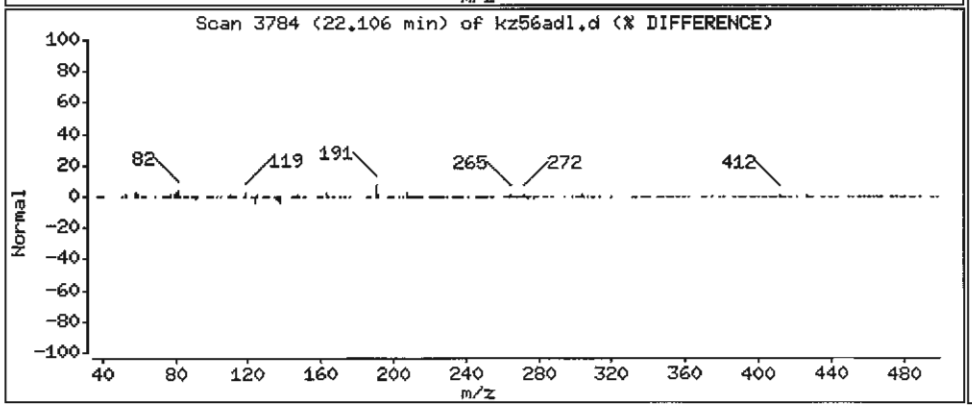
80 Benzo(g,h,i)perylene

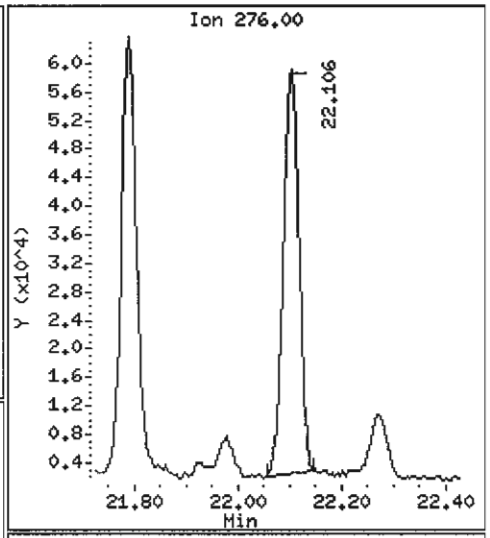
Concentration: 615.6 ug/kg

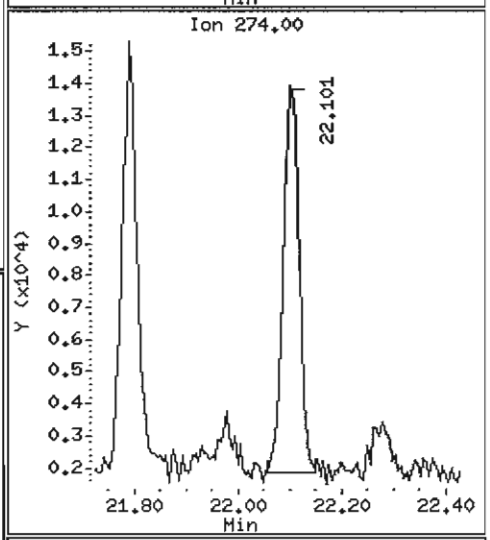


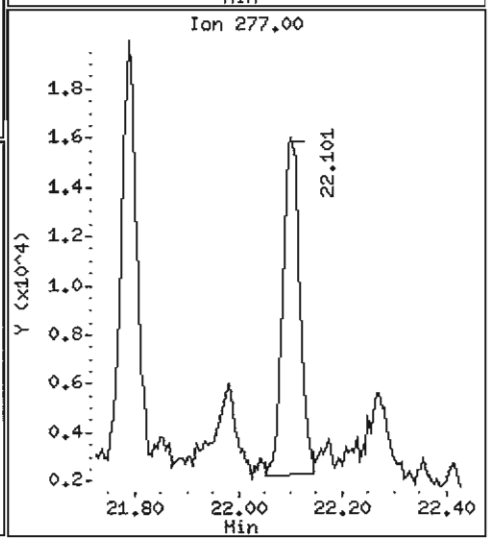












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC01-S
SAMPLE

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 19:21
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 20.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 72.2%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	150	110 J
91-57-6	2-Methylnaphthalene	150	< 150 U
208-96-8	Acenaphthylene	150	< 150 U
83-32-9	Acenaphthene	150	< 150 U
132-64-9	Dibenzofuran	150	< 150 U
86-73-7	Fluorene	150	100 J
85-01-8	Phenanthrene	150	1,500
120-12-7	Anthracene	150	300
206-44-0	Fluoranthene	150	2,800
129-00-0	Pyrene	150	2,000
56-55-3	Benzo(a)anthracene	150	900
117-81-7	bis(2-Ethylhexyl)phthalate	150	13,000 E
218-01-9	Chrysene	150	1,600
205-99-2	Benzo(b)fluoranthene	150	1,500
207-08-9	Benzo(k)fluoranthene	150	1,500
50-32-8	Benzo(a)pyrene	150	960
193-39-5	Indeno(1,2,3-cd)pyrene	150	380
53-70-3	Dibenz(a,h)anthracene	150	93 J
191-24-2	Benzo(g,h,i)perylene	150	410

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	54.7%
d5-Phenol	58.4%	2-Fluorophenol	47.6%
2,4,6-Tribromophenol	58.3%	d4-2-Chlorophenol	57.6%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56b.d
Lab Smp Id: KZ56B
Client Smp ID: Y3-RC01-S
Inj Date : 26-MAY-2007 19:21
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56B,3
Misc Info : 07-9548
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
LJR 5/29/07
Meth Date : 29-May-2007 10:50 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 9
Dil Factor: 3.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	~~1000.00000~~	Volume of final extract (uL)
Ws	72.10000	Weight of sample extracted (g)
M	72.20000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.003	4.981	(0.726)	99837	5.95197	890.8
$ 2 Phenol-d5	99	6.526	6.514	(0.947)	143657	7.29919	1092
3 Phenol	94	6.547	6.536	(0.950)	65256	3.02028	452.1
$ 5 2-Chlorophenol-d4	132	6.606	6.595	(0.959)	97934	7.19651	1077
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.889	6.883	(1.000)	184496	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.183	7.177	(1.043)	37924	4.55731	682.1
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	7.215	7.188	(1.047)	27629	2.56643	384.1(M)
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	7.685	7.674	(1.116)	62384	4.30730	644.7
$	18 Nitrobenzene-d5	82	7.808	7.807	(0.877)	79763	5.07315	759.3
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.732	8.763	(0.981)	202651	22.4352	3358(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.903	8.902	(1.000)	660753	20.0000	
	28 Naphthalene	128	8.930	8.934	(1.003)	29052	0.74230 LOL	111.1
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.704	10.703	(0.912)	109757	5.10073	763.4
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.740	11.734	(1.000)	318828	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.605	12.599	(1.074)	14665	0.68618 LOL	102.7(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.033	13.021	(1.110)	23652	7.28666	1091
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.936	13.924	(0.989)	3301	0.99620 LOL	149.1
*	59 Phenanthrene-d10	188	14.096	14.084	(1.000)	427653	20.0000	
	60 Phenanthrene	178	14.133	14.122	(1.003)	277614	9.72716	1456
	61 Anthracene	178	14.203	14.196	(1.008)	59119	2.00477	300.1
	62 Carbazole	167	14.507	14.496	(1.029)	53318	2.10116	314.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.271	15.249	(1.083)	28958	0.92532 LDL	138.5(M)
64 Fluoranthene	202	16.072	16.045	(1.140)	507600	18.7457	2806
65 Pyrene	202	16.414	16.392	(0.892)	367133	13.1120	1963
$ 66 Terphenyl-d14	244	16.756	16.734	(0.911)	88651	4.99974	748.3
67 Butylbenzylphthalate	149	17.670	17.642	(0.960)	53907	4.09474	612.9(M)
68 Benzo(a)anthracene	228	18.380	18.342	(0.999)	152215	6.03858	903.8
* 69 Chrysene-d12	240	18.402	18.369	(1.000)	337449	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.439	18.406	(1.002)	281713	11.0478	1654
72 bis(2-Ethylhexyl)phthalate	149	18.695	18.657	(0.952)	1558038	84.1346 E	12590
* 134 Di-n-octylphthalate-d4	153	19.630	19.587	(1.000)	540662	20.0000	
73 Di-n-octylphthalate	149	19.646	19.592	(1.001)	98096	3.05413	457.1(M)
74 Benzo(b)fluoranthene	252	20.047	19.987	(0.975)	197683	9.77641	1463(M)
75 Benzo(k)fluoranthene	252	20.058	20.019	(0.975)	194406	10.0082	1498(M)
76 Benzo(a)pyrene	252	20.480	20.425	(0.996)	129242	6.38575	955.8
* 77 Perylene-d12	264	20.565	20.505	(1.000)	311862	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.922	21.852	(1.066)	59969	2.50622	375.1(M)
79 Dibenzo(a,h)anthracene	278	21.938	21.884	(1.067)	12362	0.62377 LDL	93.36(M)
80 Benzo(g,h,i)perylene	276	22.248	22.178	(1.082)	60141	2.74366	410.6(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.457	6.456	(0.937)	333493	12.0854 Y	1809
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56b.d
Lab Smp Id: KZ56B
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9548

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC01-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	184496	-14.97
27 Naphthalene-d8	799420	399710	1598840	660753	-17.35
42 Acenaphthene-d10	390056	195028	780112	318828	-18.26
59 Phenanthrene-d10	573879	286940	1147758	427653	-25.48
69 Chrysene-d12	366829	183414	733658	337449	-8.01
134 Di-n-octylphthala	621709	310854	1243418	540662	-13.04
77 Perylene-d12	428868	214434	857736	311862	-27.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.09
27 Naphthalene-d8	8.90	8.40	9.40	8.90	0.01
42 Acenaphthene-d10	11.73	11.23	12.23	11.74	0.05
59 Phenanthrene-d10	14.08	13.58	14.58	14.10	0.08
69 Chrysene-d12	18.37	17.87	18.87	18.40	0.18
134 Di-n-octylphthala	19.59	19.09	20.09	19.63	0.22
77 Perylene-d12	20.51	20.01	21.01	20.57	0.29

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56B
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9548

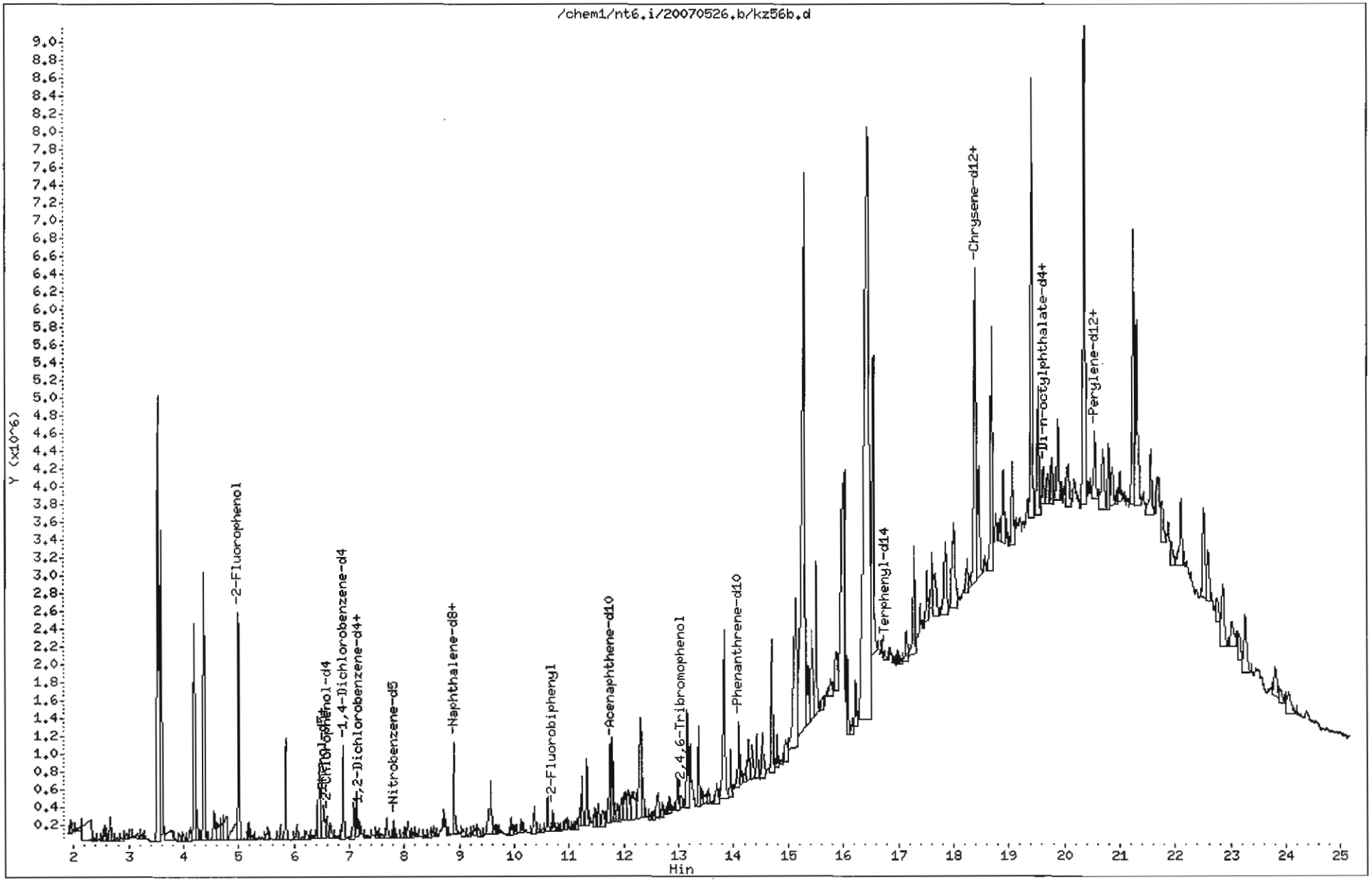
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC01-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1871	890.8	47.62	22-91
$ 2 Phenol-d5	1871	1092	58.39	26-99
$ 5 2-Chlorophenol-d4	1871	1077	57.57	29-96
$ 10 1,2-Dichlorobenzen	1247	682.1	54.69	24-87
$ 18 Nitrobenzene-d5	1247	759.3	60.88	27-101
$ 36 2-Fluorobiphenyl	1247	763.4	61.21	30-100
$ 55 2,4,6-Tribromophen	1871	1091	58.29	20-114
$ 66 Terphenyl-d14	1247	748.3	60.00	12-120

Data File: /chem1/nt6.i/20070526.b/kz56b.d
Date : 26-MAY-2007 19:21
Client ID: Y3-RC01-S
Sample Info: KZ56B,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

0241



Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

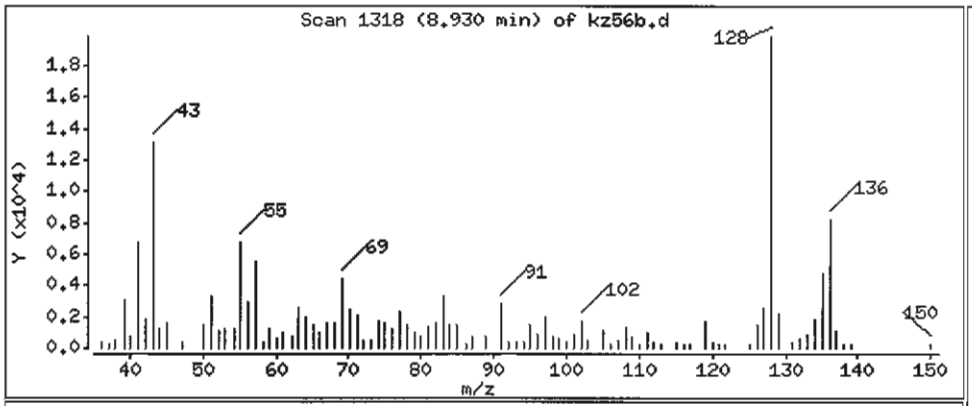
Column phase: ZB-5

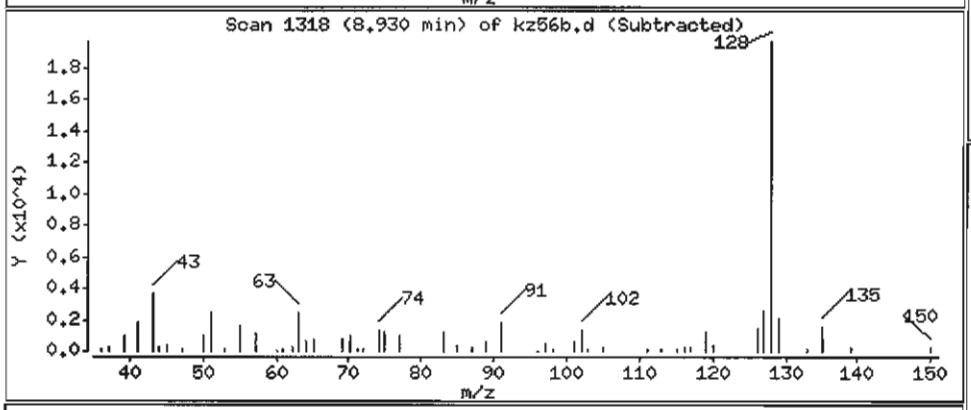
Column diameter: 0.32

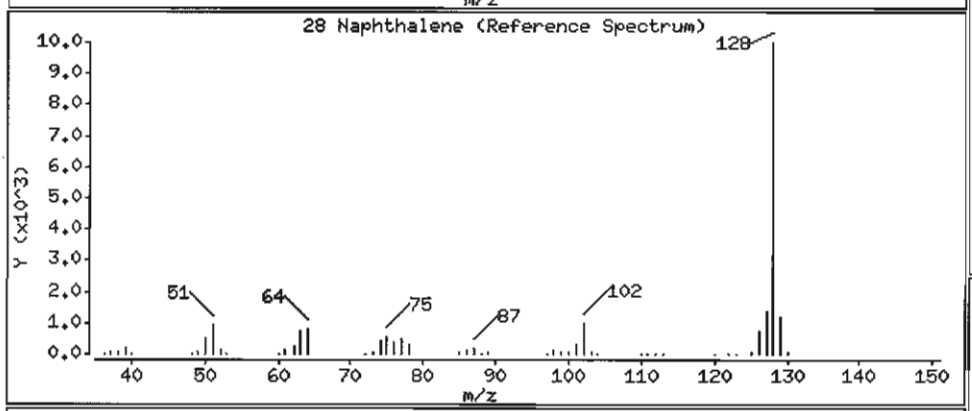
JLR

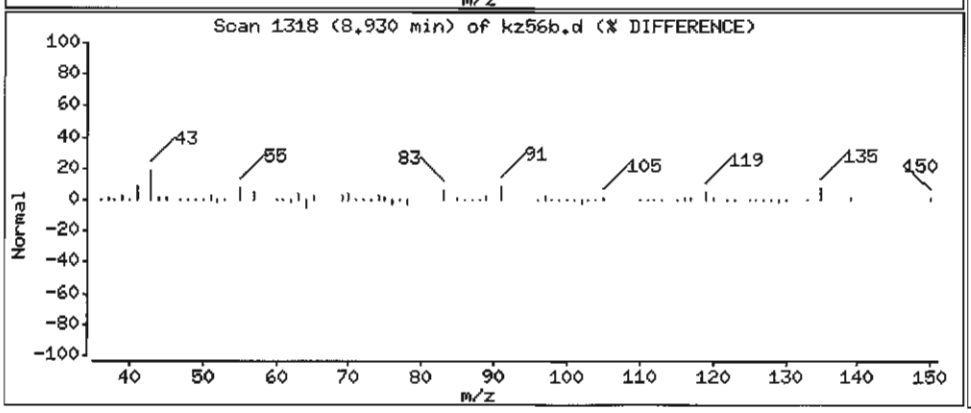
28 Naphthalene

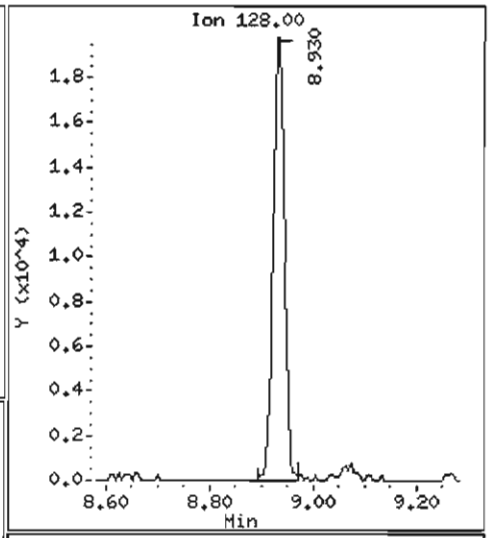
Concentration: 111.1 ug/kg

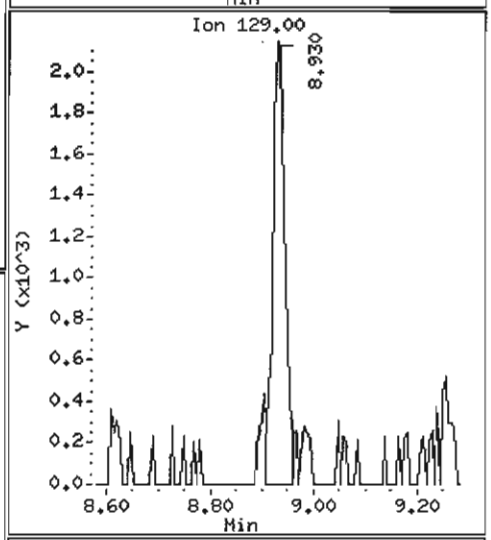


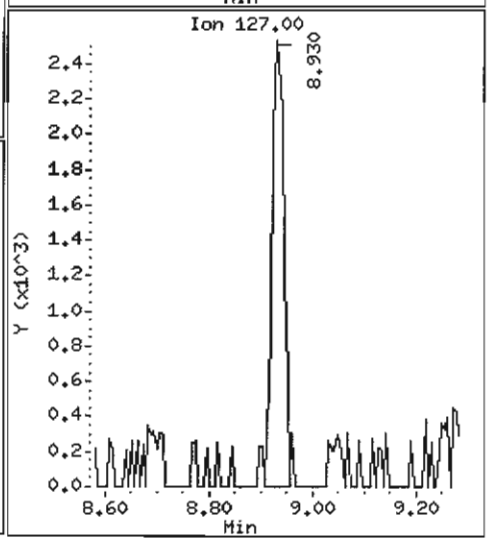












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

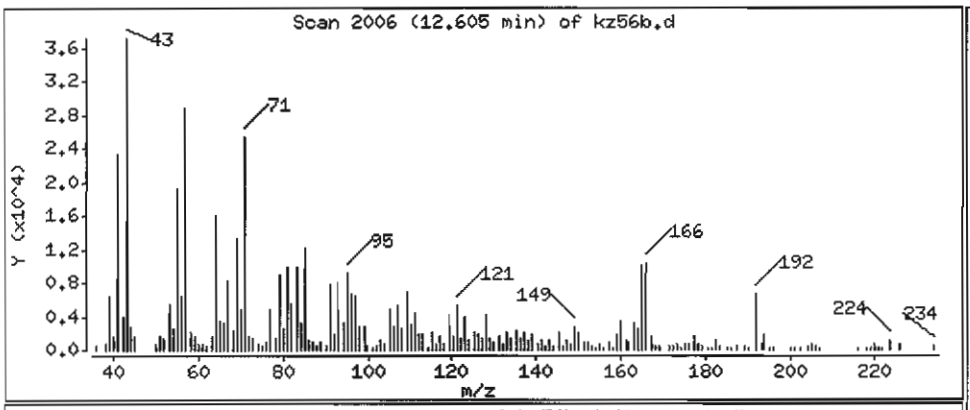
Column phase: ZB-5

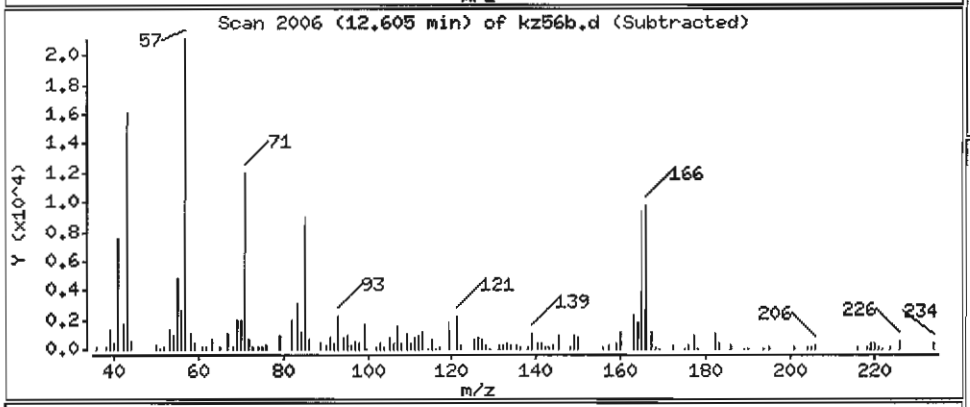
Column diameter: 0.32

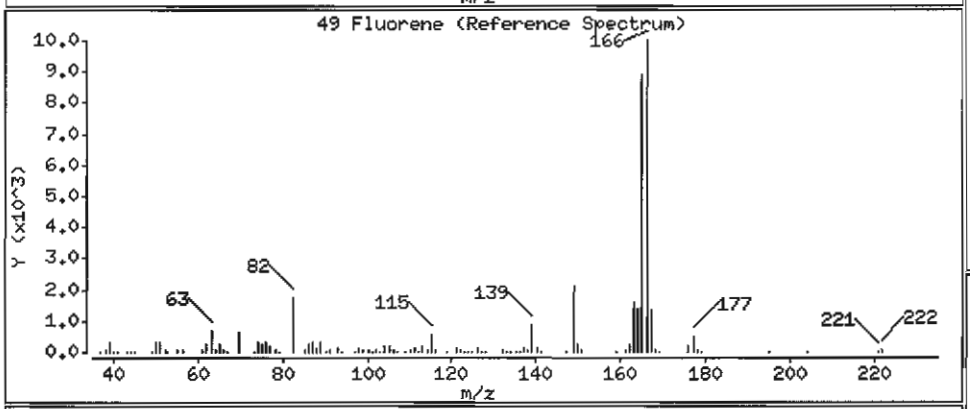
JLR

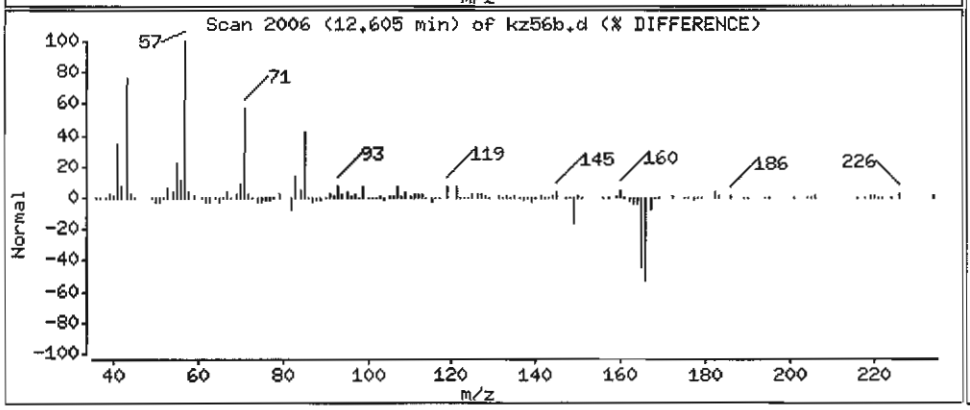
49 Fluorene

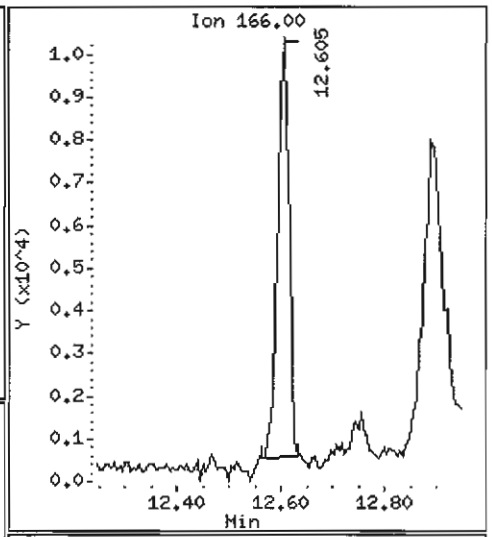
Concentration: 102.7 ug/kg

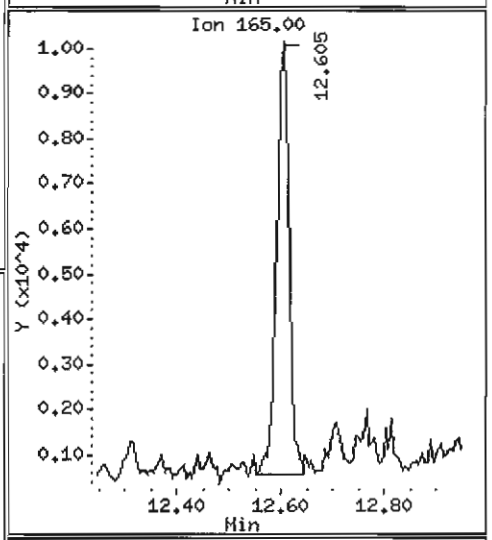


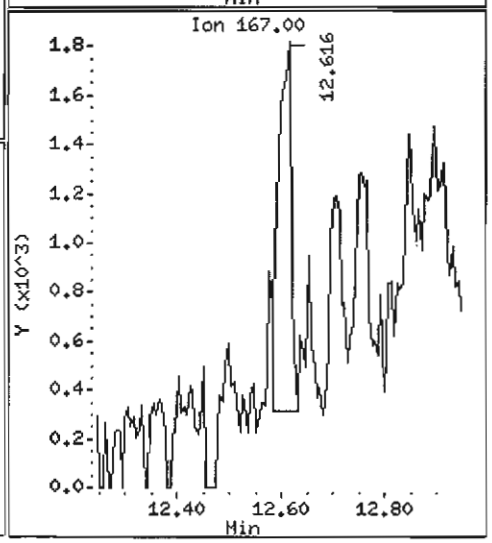












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

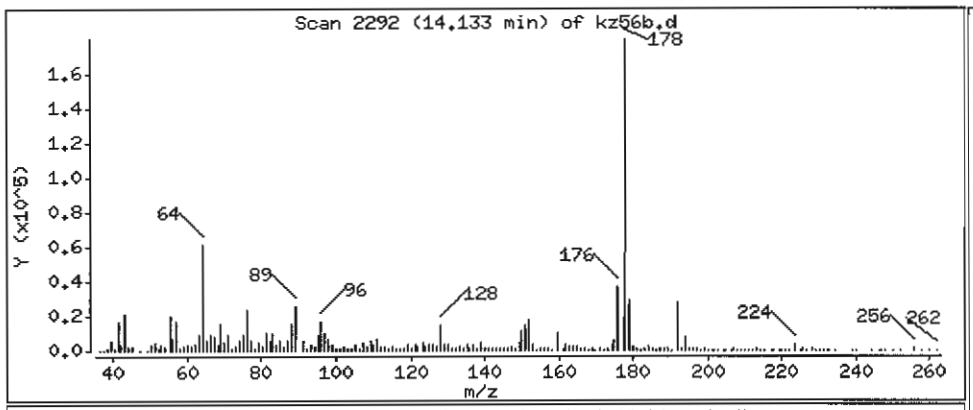
Operator: LJR/VTS

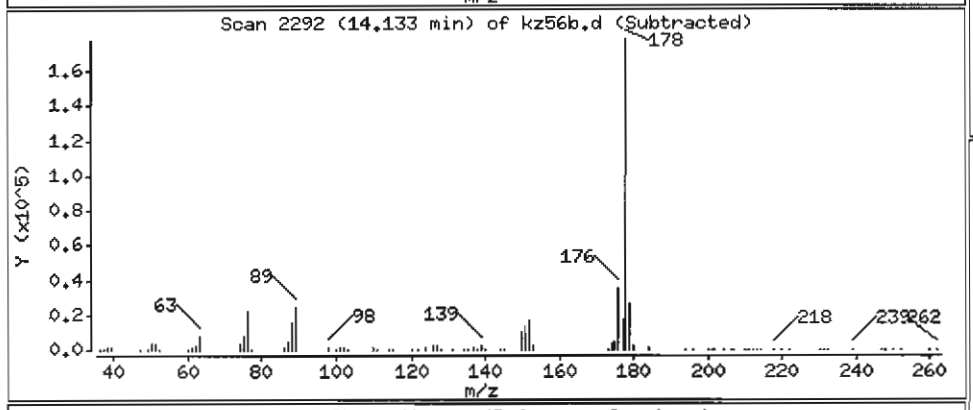
Column phase: ZB-5

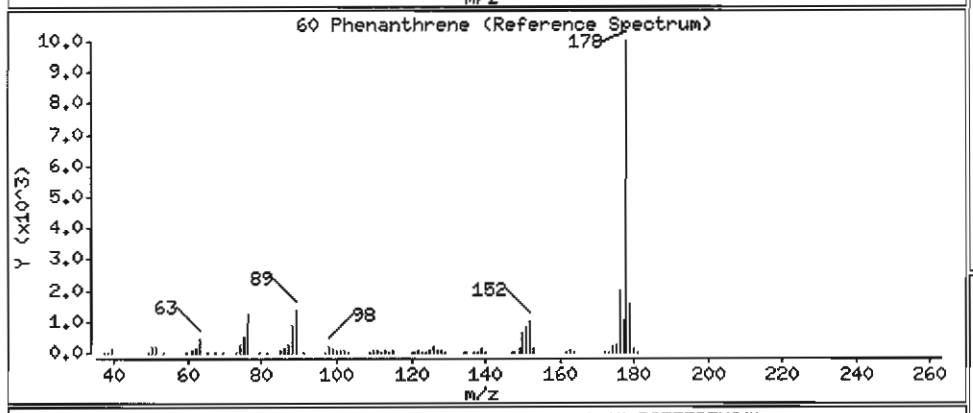
Column diameter: 0.32

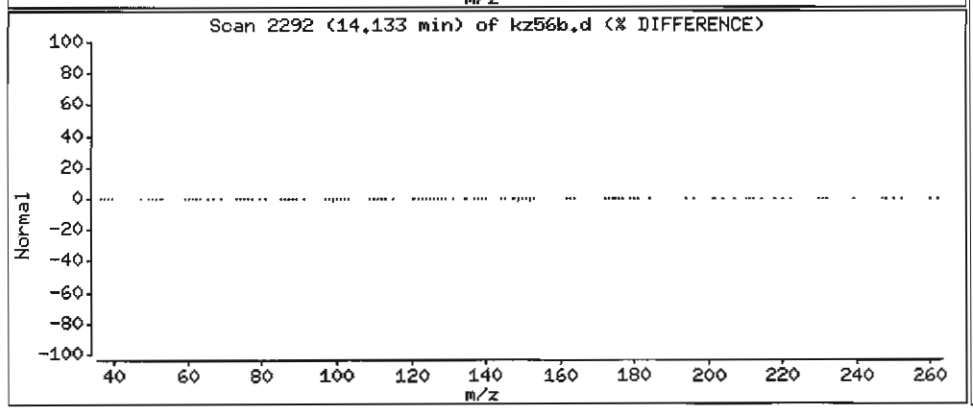
60 Phenanthrene

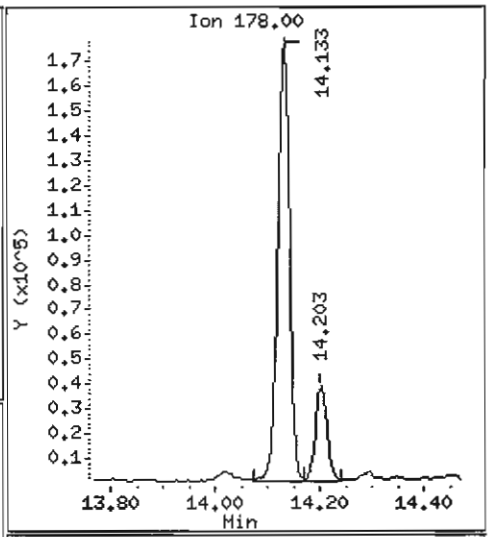
Concentration: 1456 ug/kg

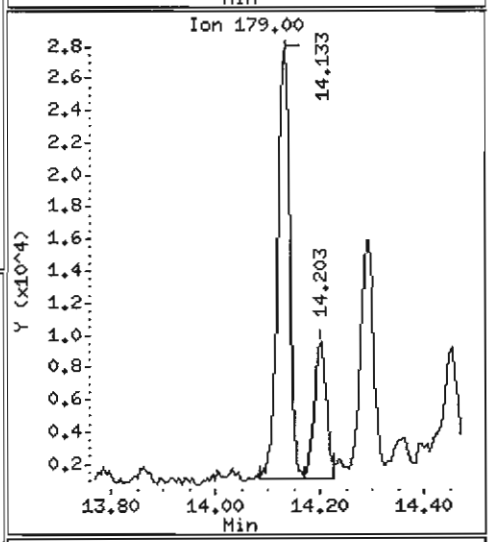


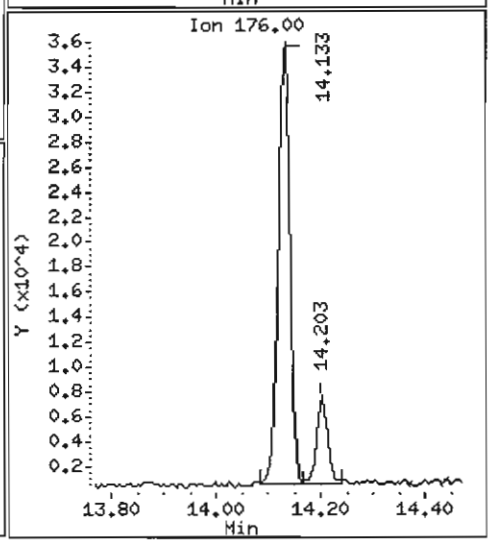












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

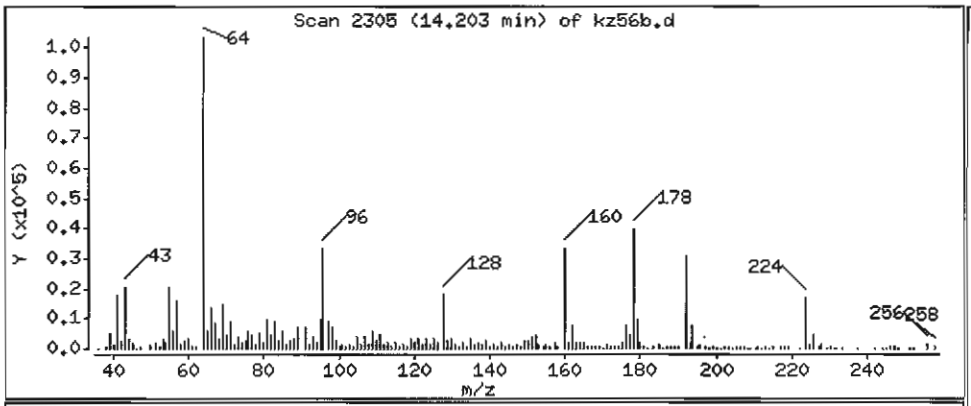
Operator: LJR/VTS

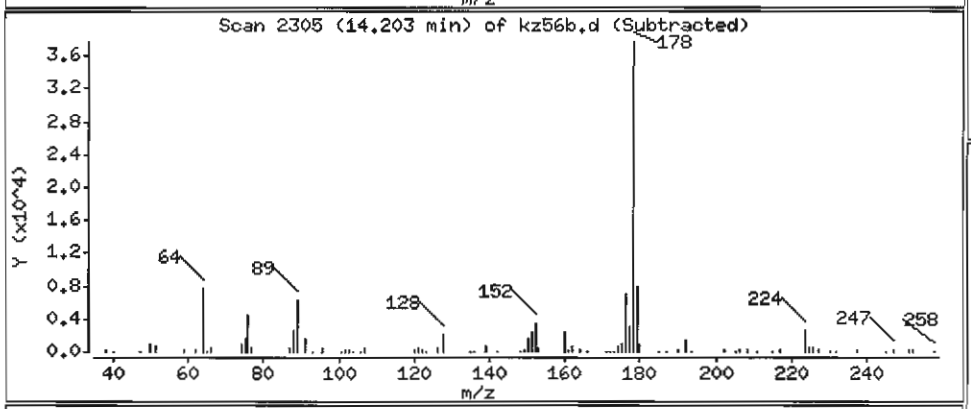
Column phase: ZB-5

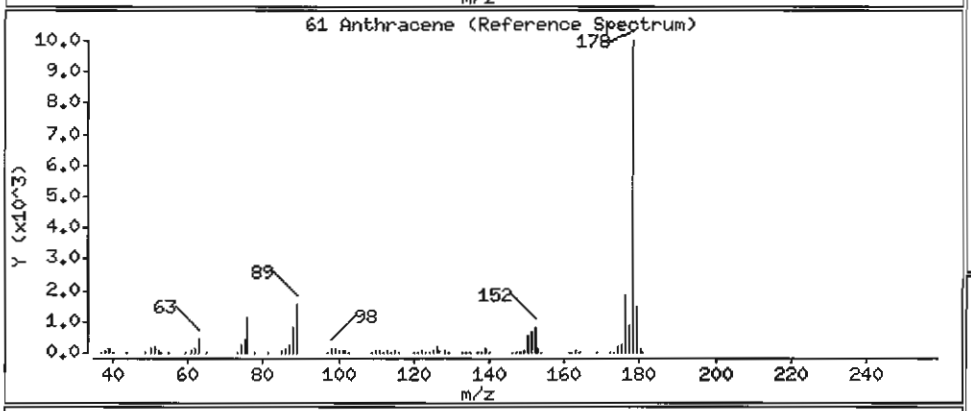
Column diameter: 0.32

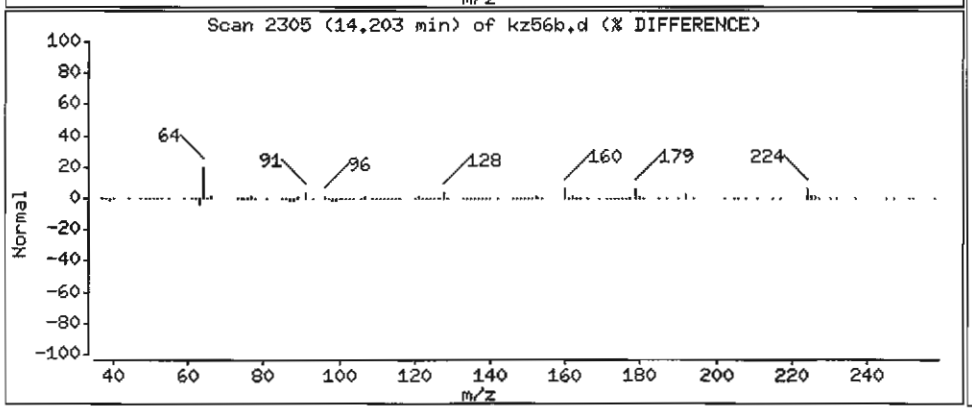
61 Anthracene

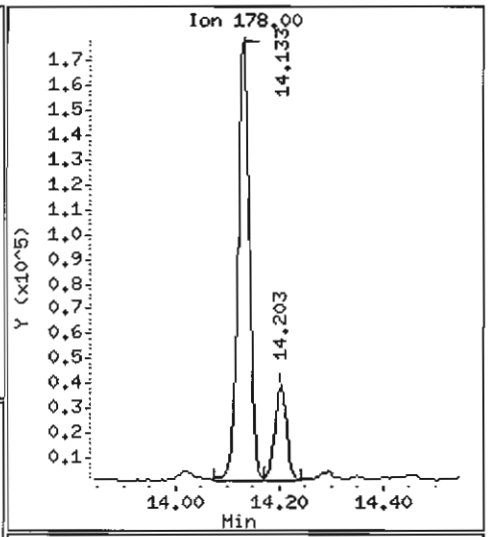
Concentration: 300.1 ug/kg

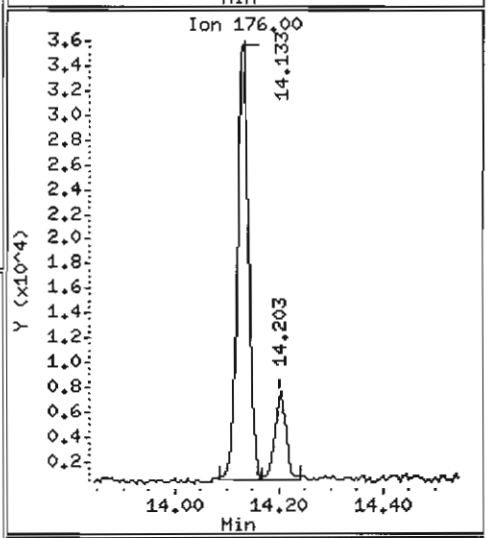


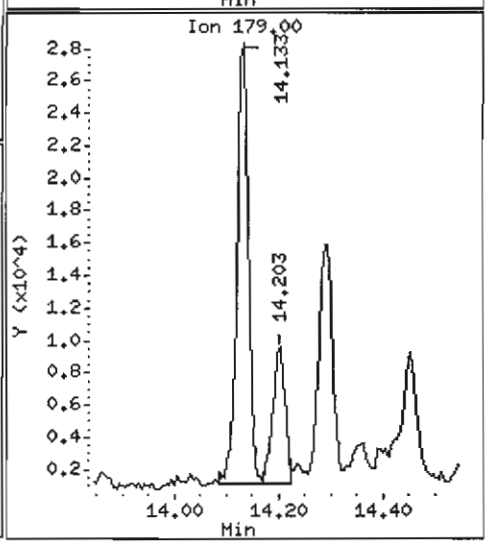












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

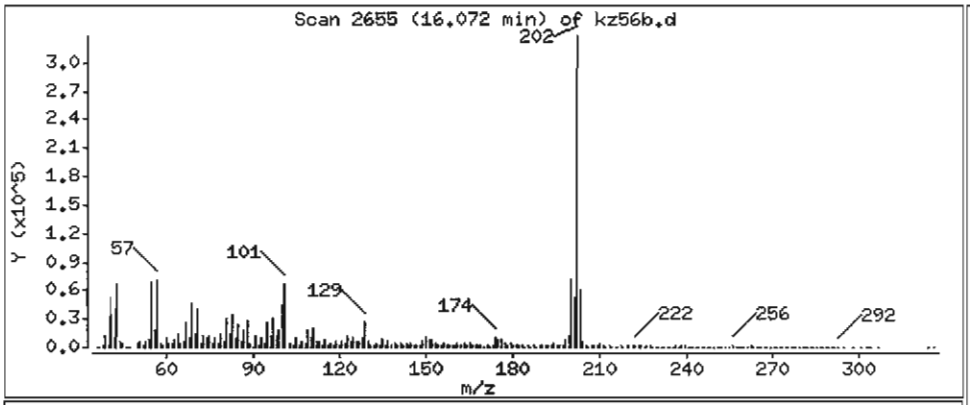
Operator: LJR/VTS

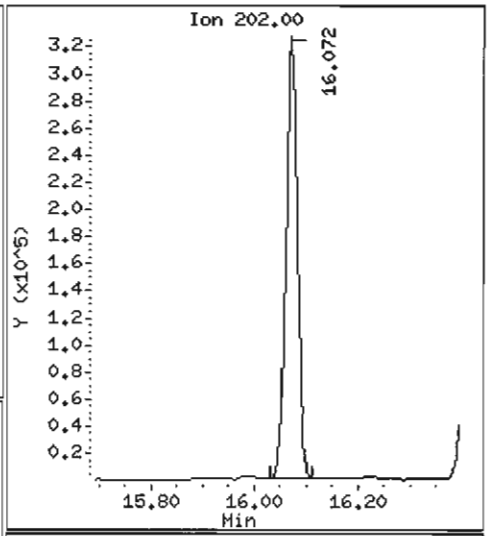
Column phase: ZB-5

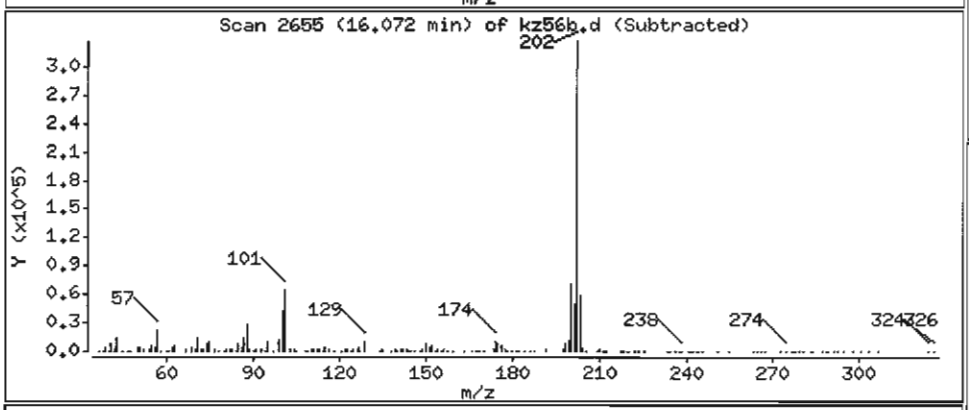
Column diameter: 0.32

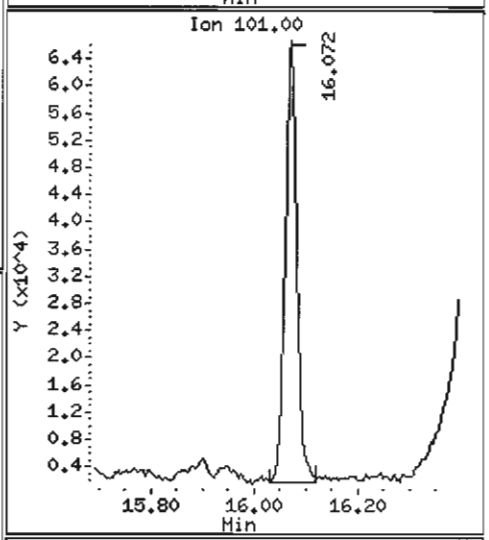
64 Fluoranthene

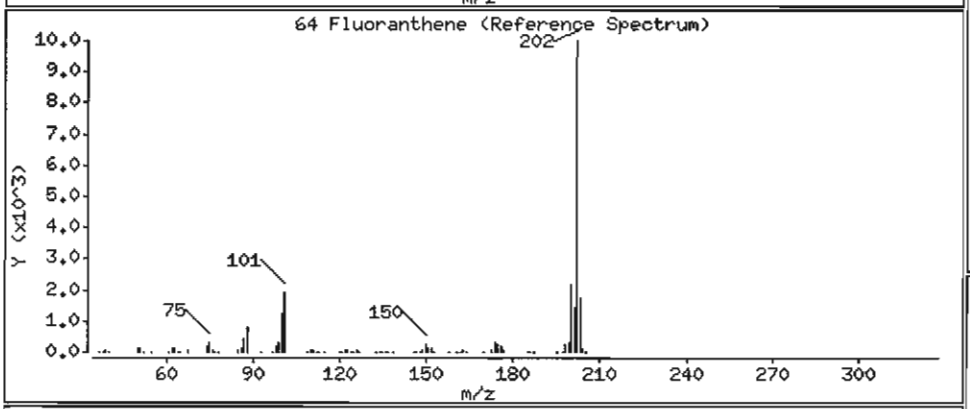
Concentration: 2806 ug/kg

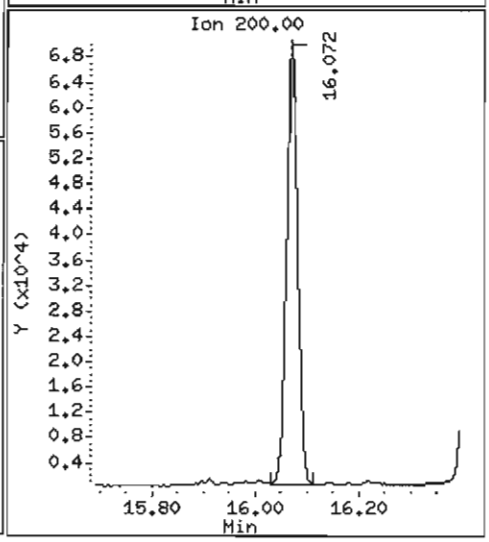


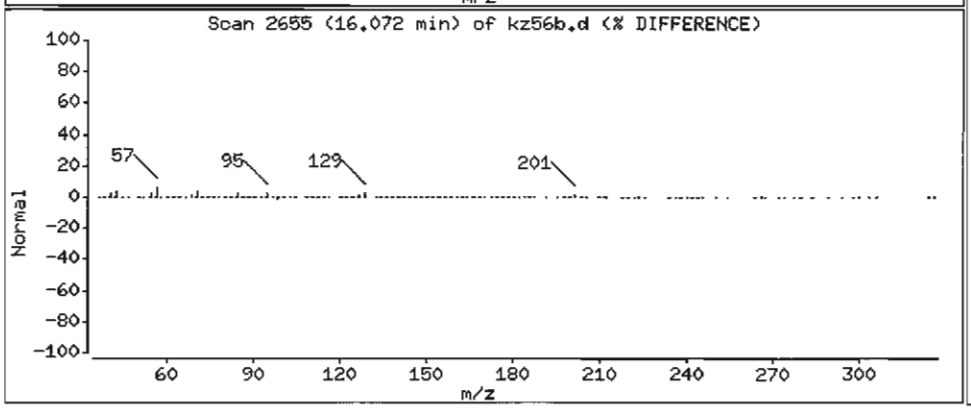












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

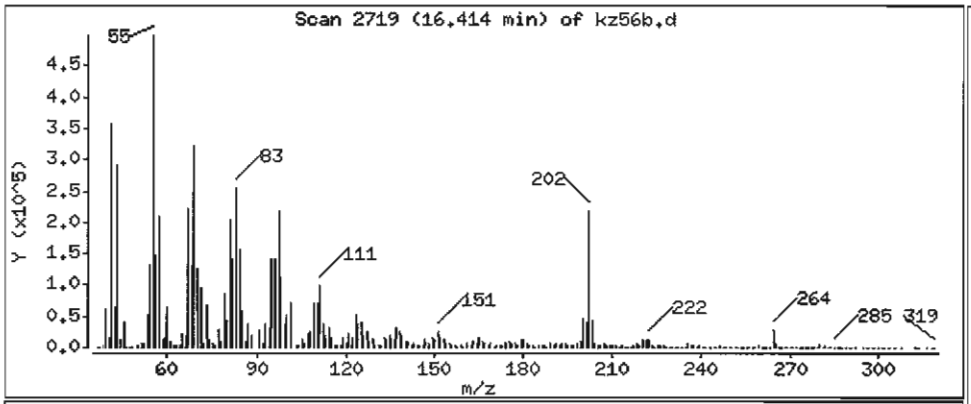
Operator: LJR/VTS

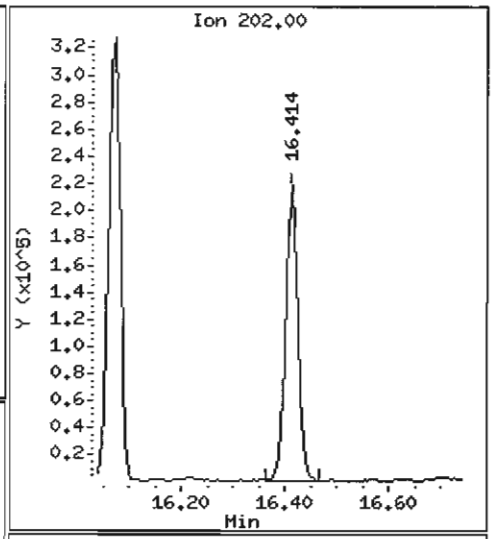
Column phase: ZB-5

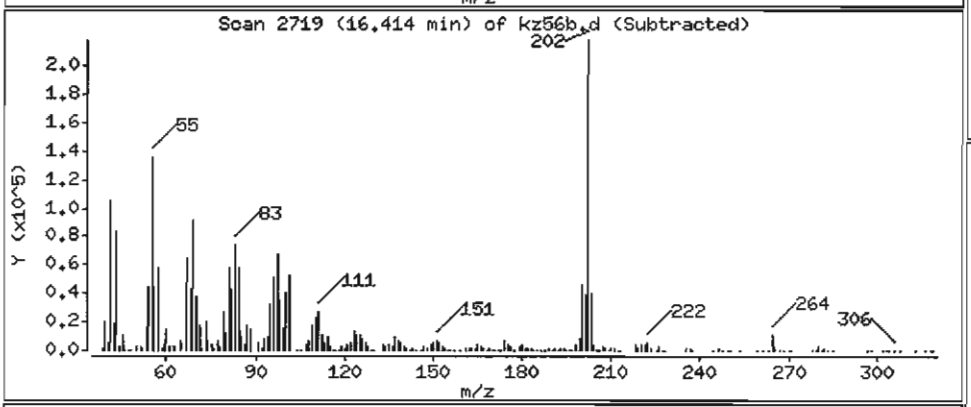
Column diameter: 0.32

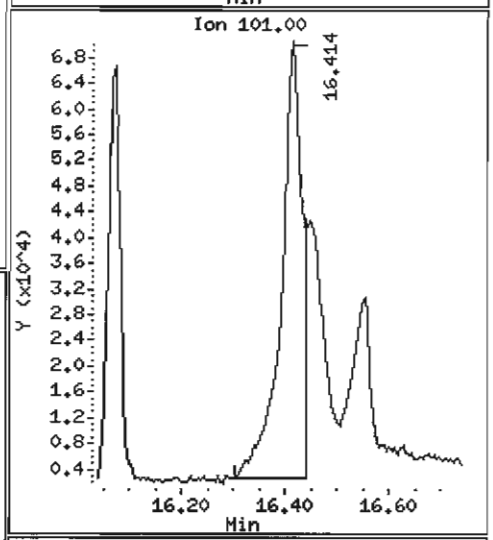
65 Pyrene

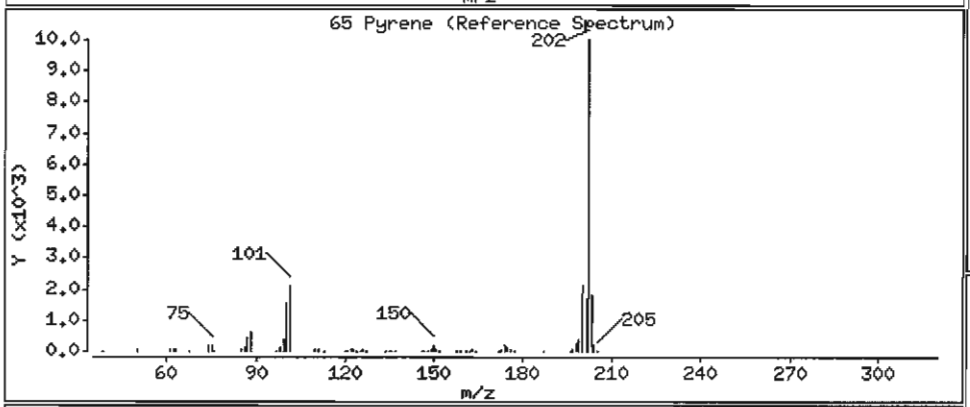
Concentration: 1963 ug/kg

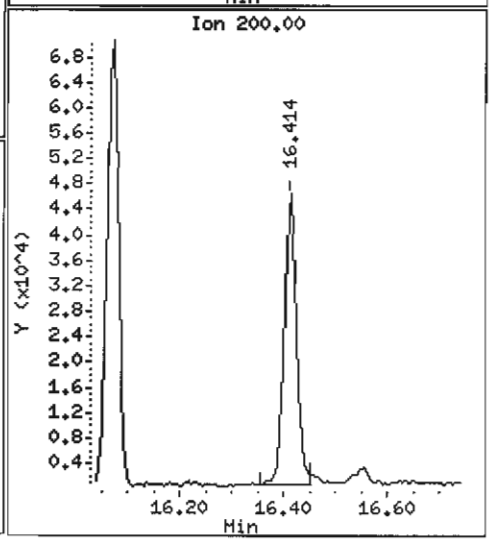


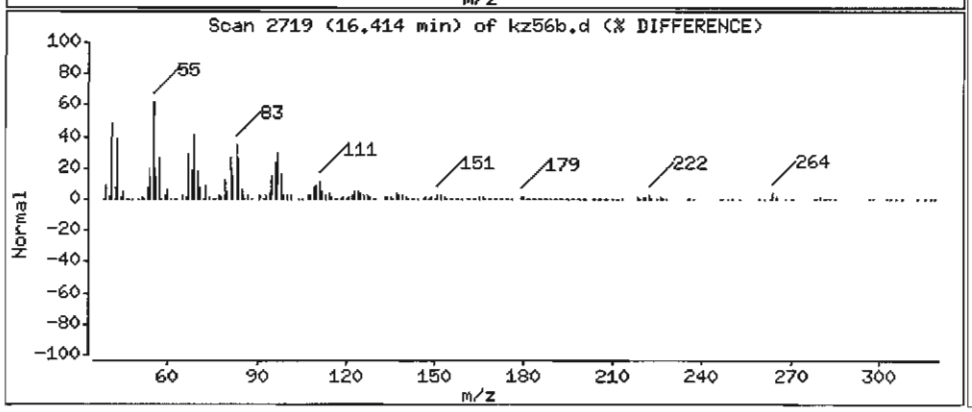












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

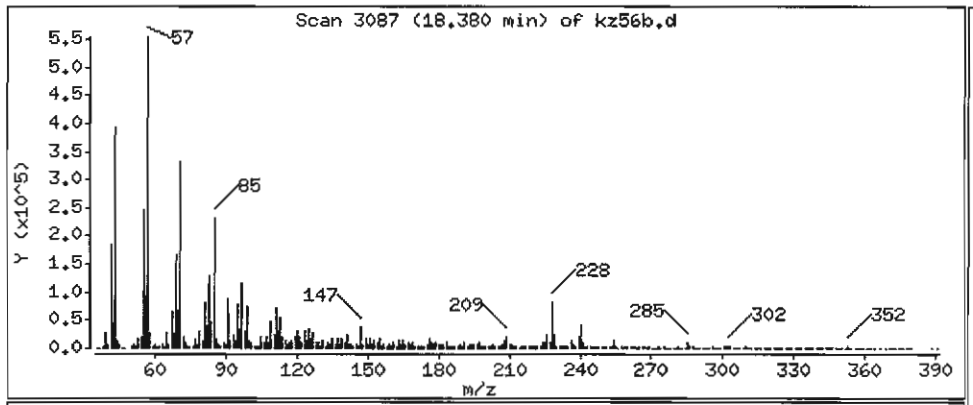
Operator: LJR/VTS

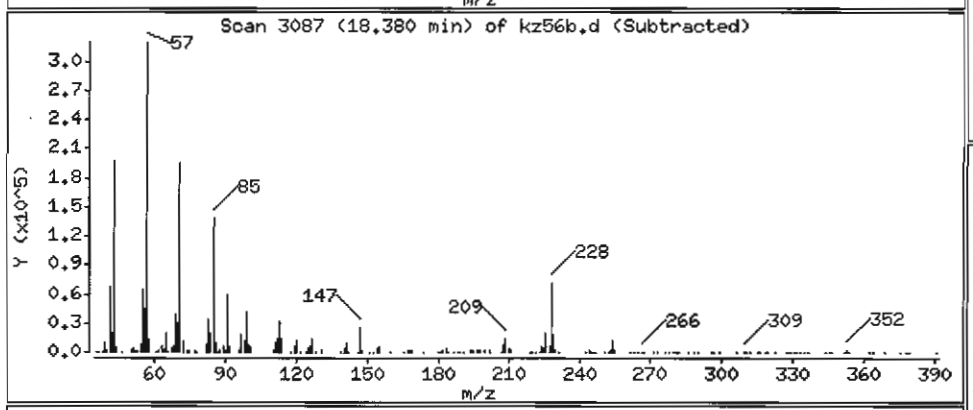
Column phase: ZB-5

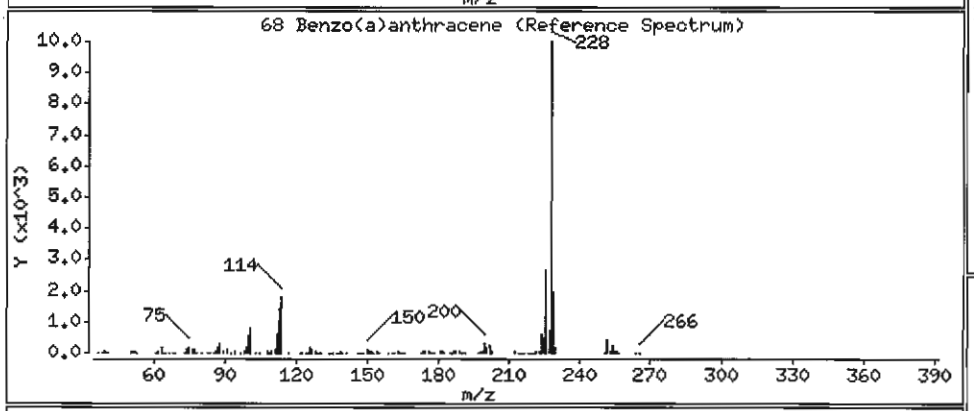
Column diameter: 0.32

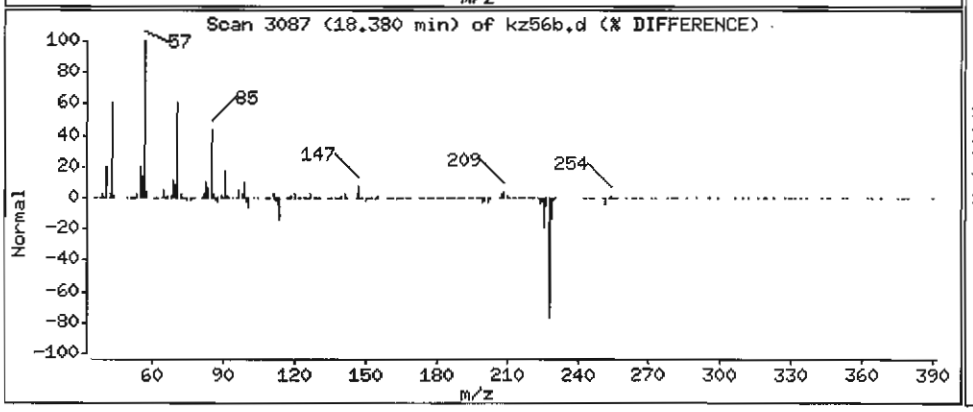
68 Benzo(a)anthracene

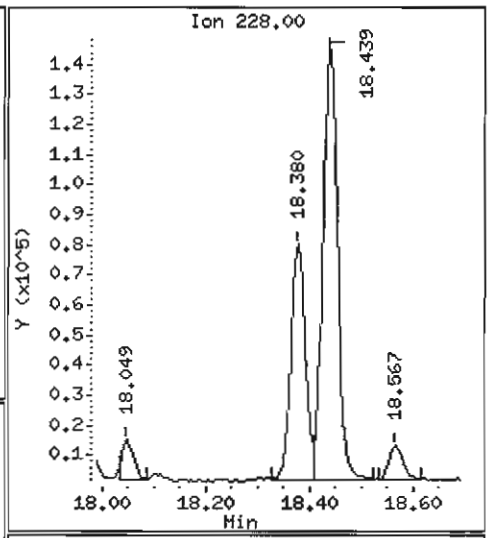
Concentration: 903.8 ug/kg

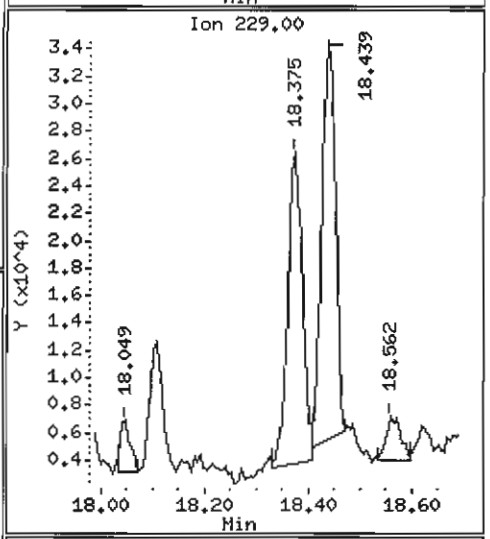


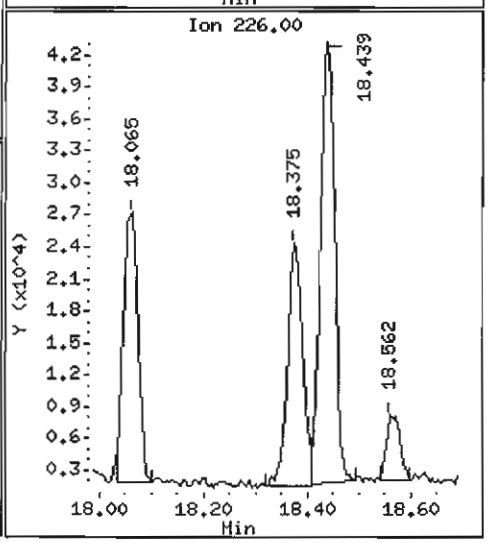












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

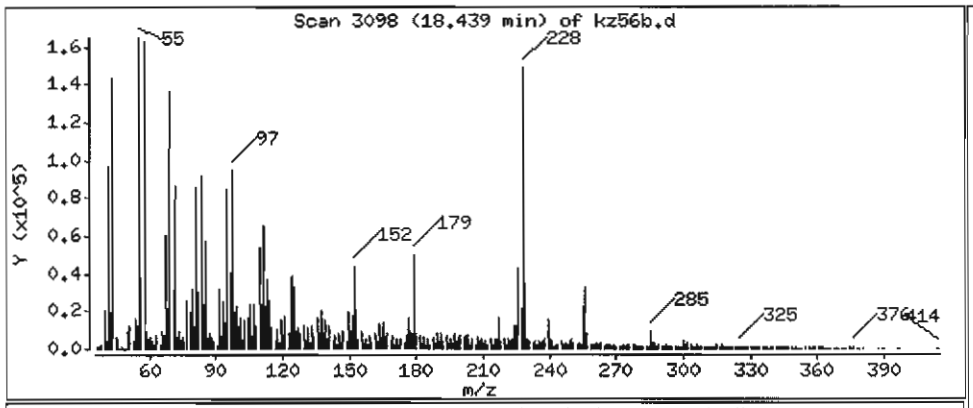
Operator: LJR/VTS

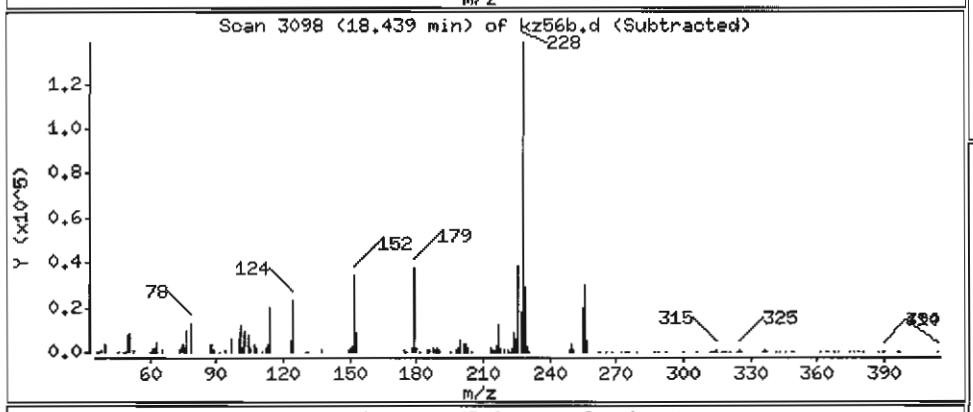
Column phase: ZB-5

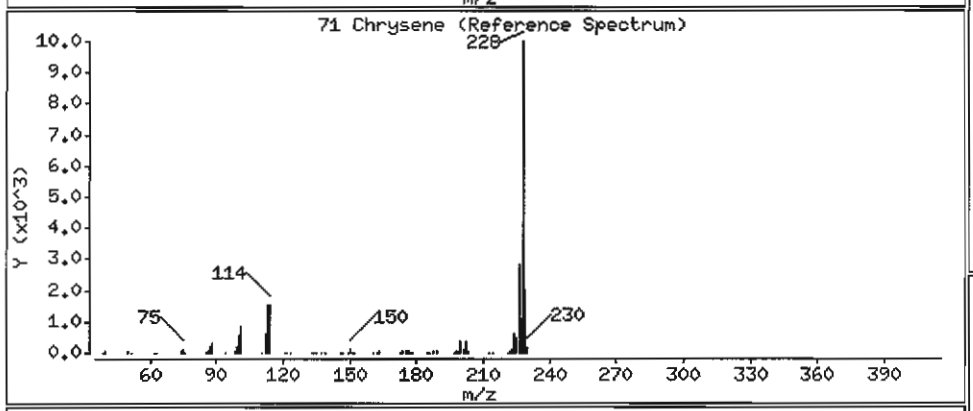
Column diameter: 0.32

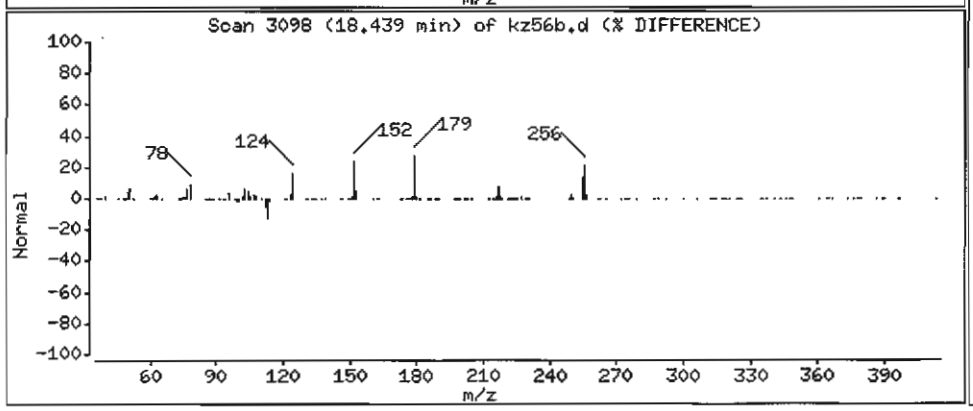
71 Chrysene

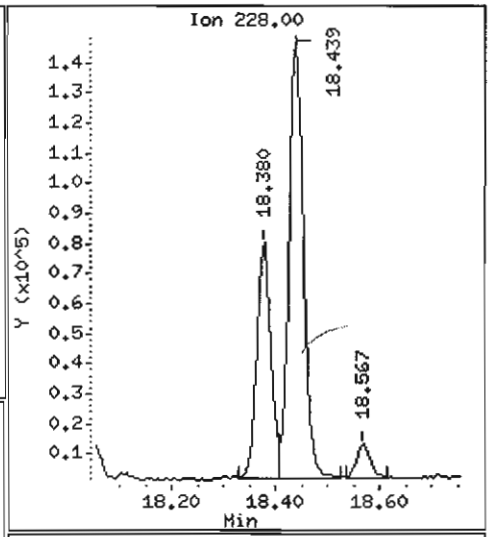
Concentration: 1654 ug/kg

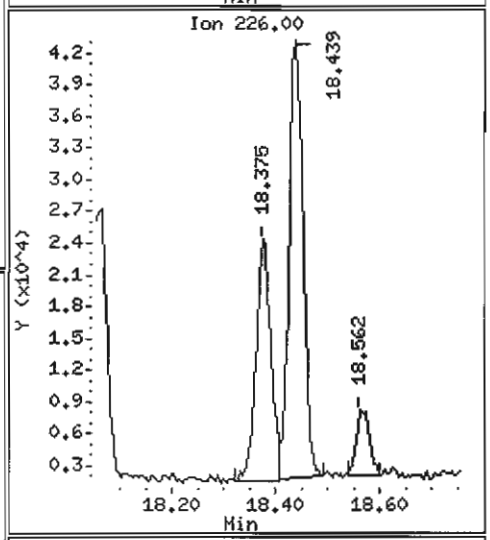


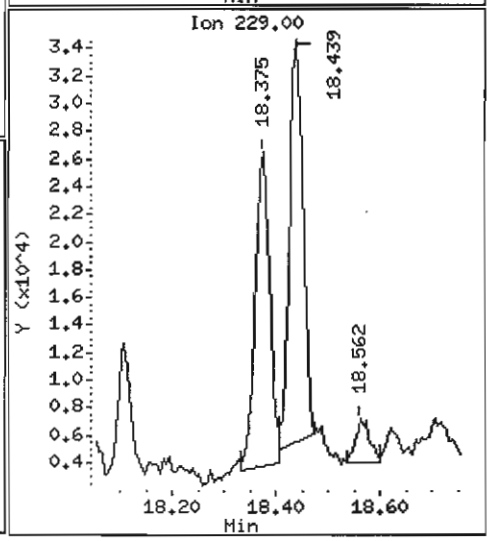












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

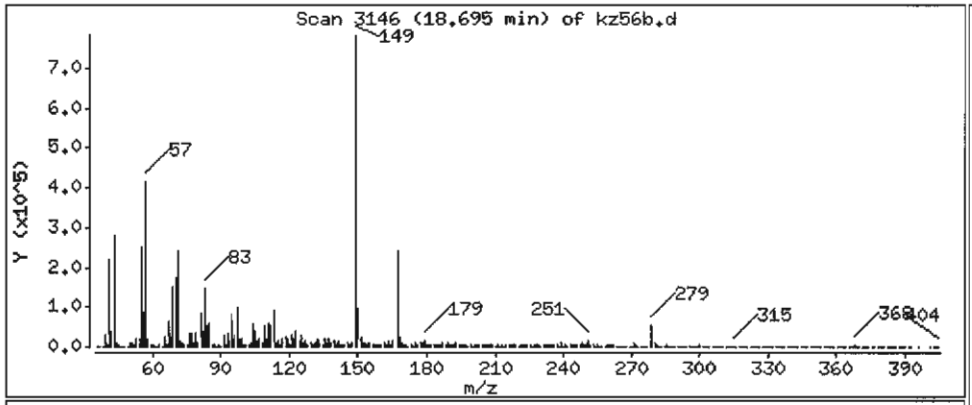
Operator: LJR/VTS

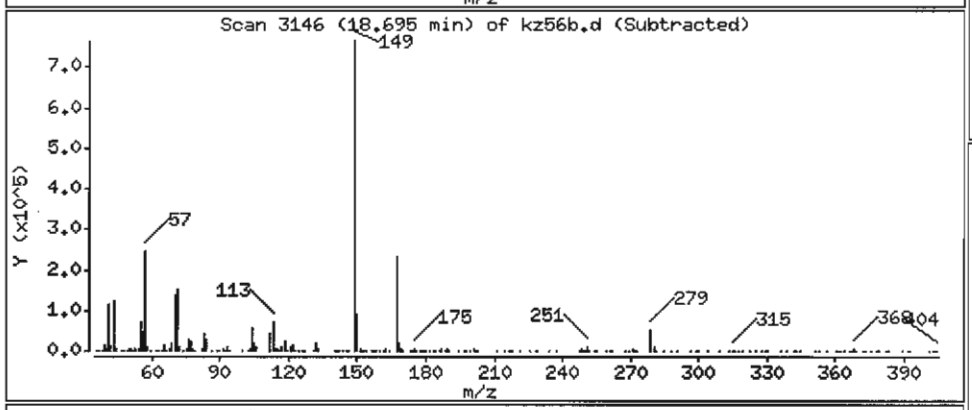
Column phase: ZB-5

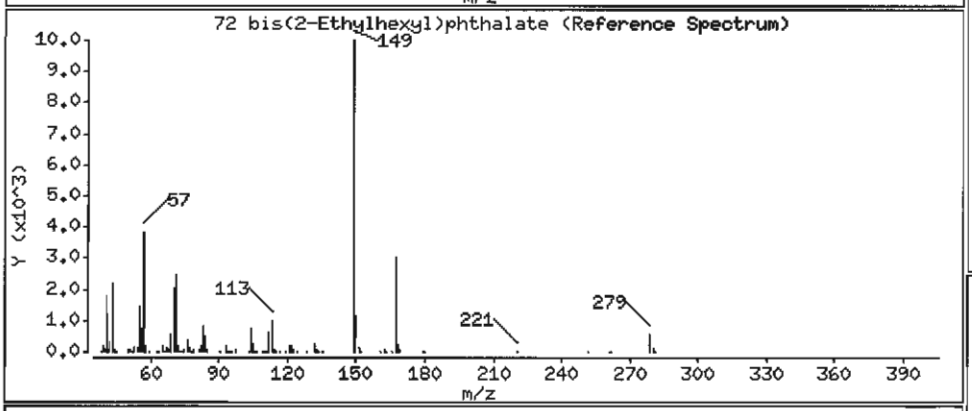
Column diameter: 0.32

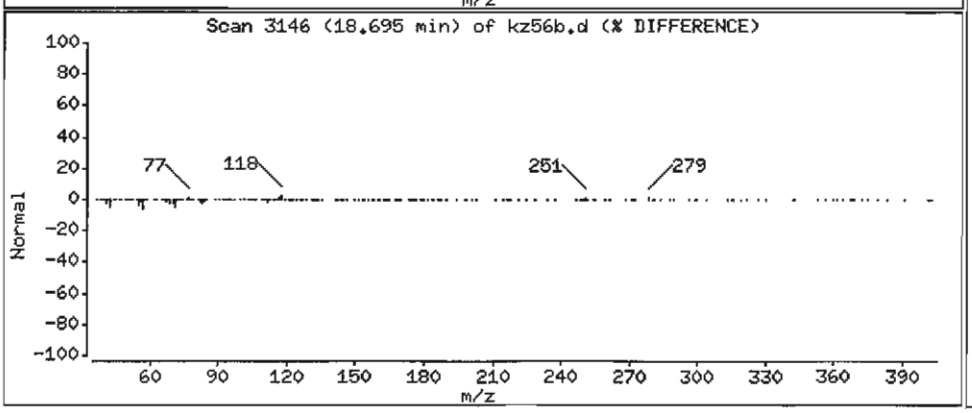
72 bis(2-Ethylhexyl)phthalate

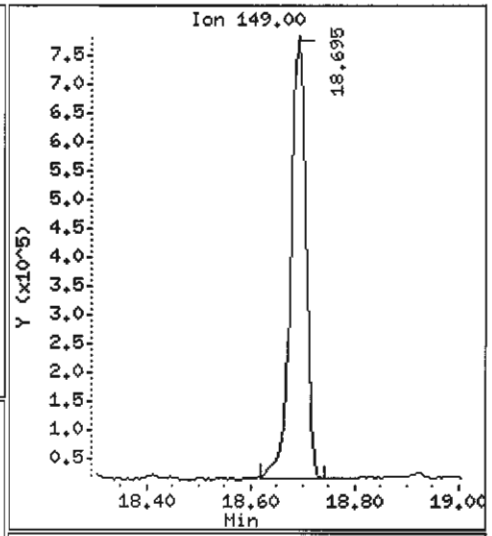
Concentration: 12590 ug/kg

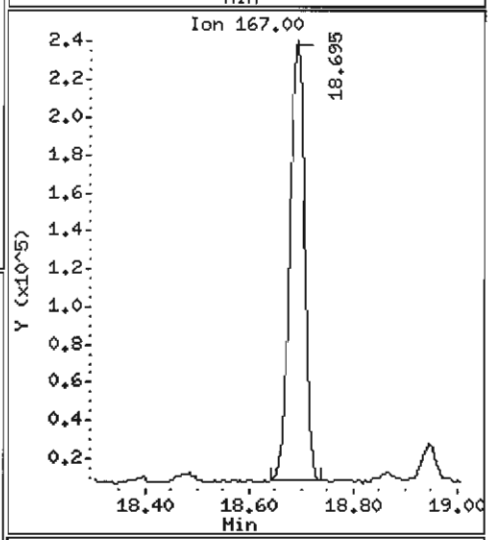


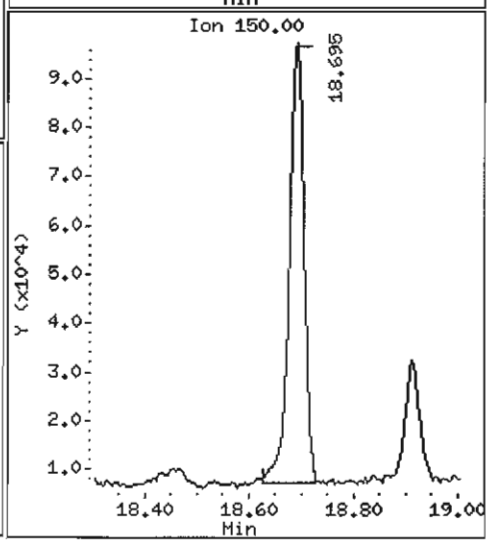












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

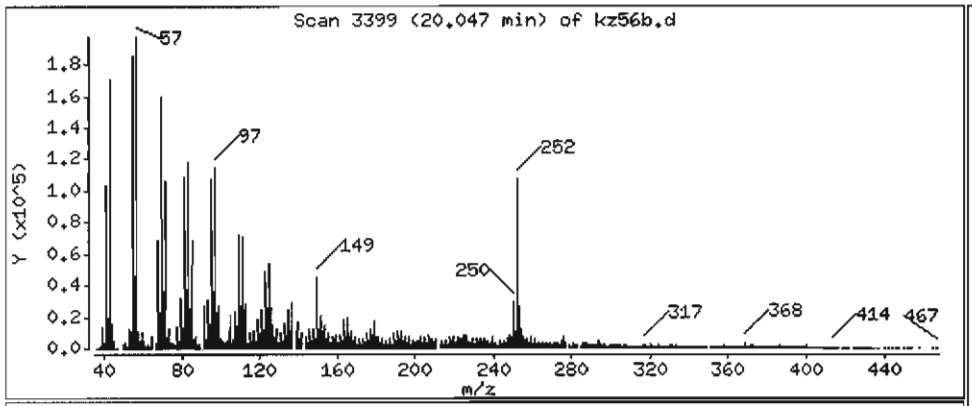
Operator: LJR/VTS

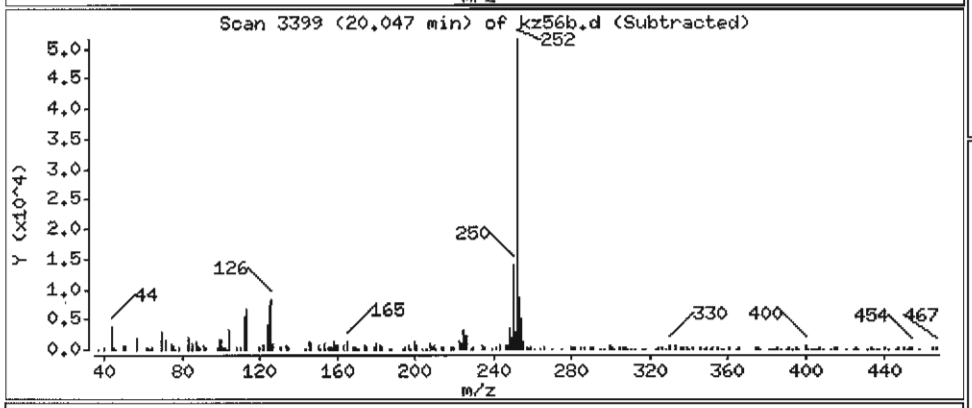
Column phase: ZB-5

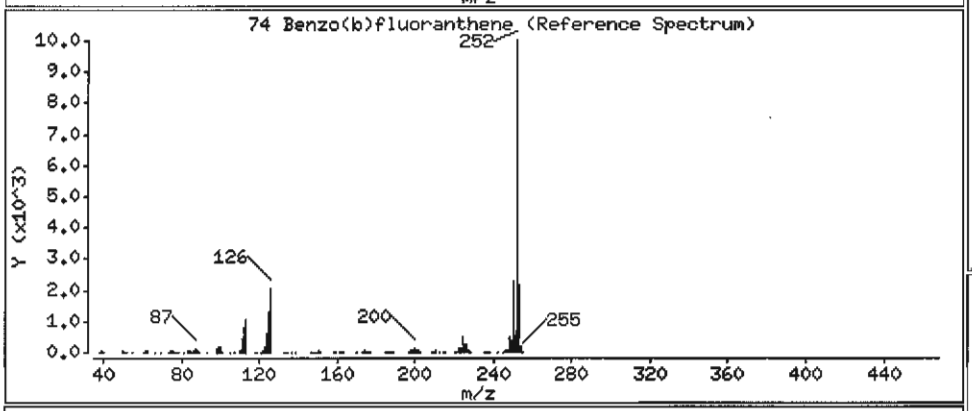
Column diameter: 0.32

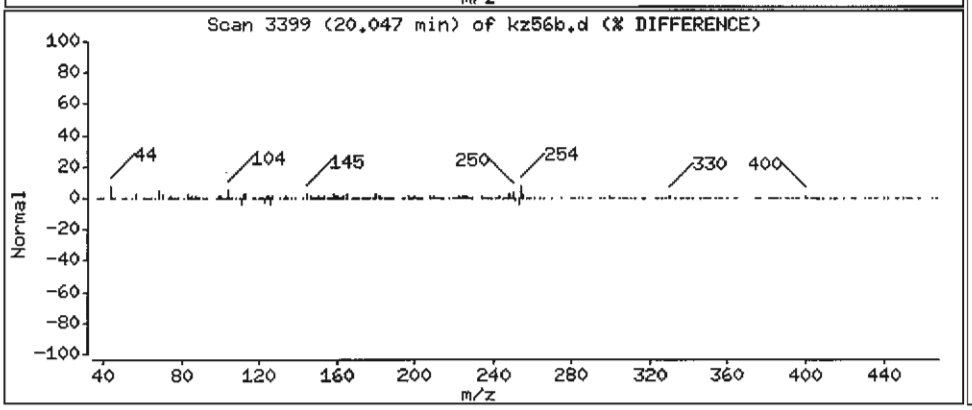
74 Benzo(b)fluoranthene

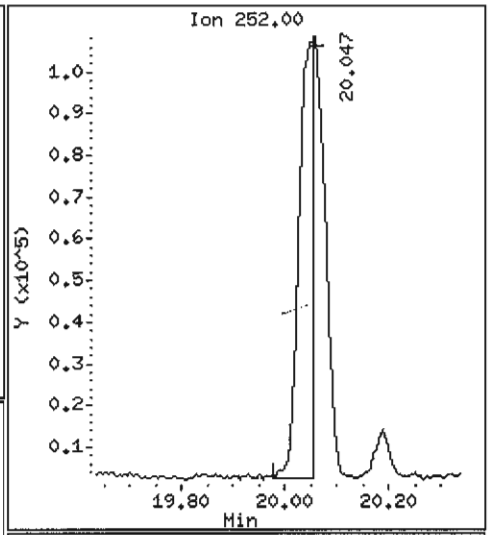
Concentration: 1463 ug/kg

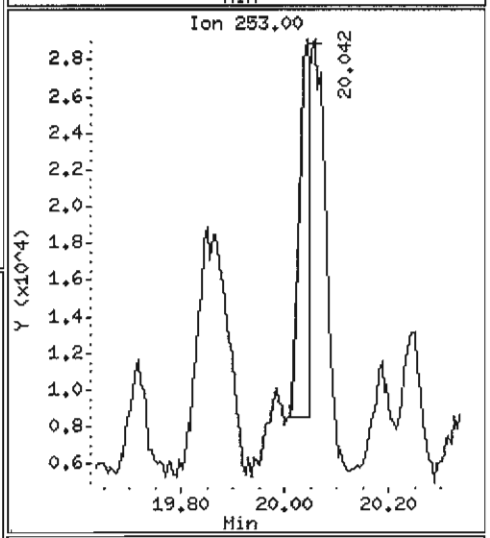


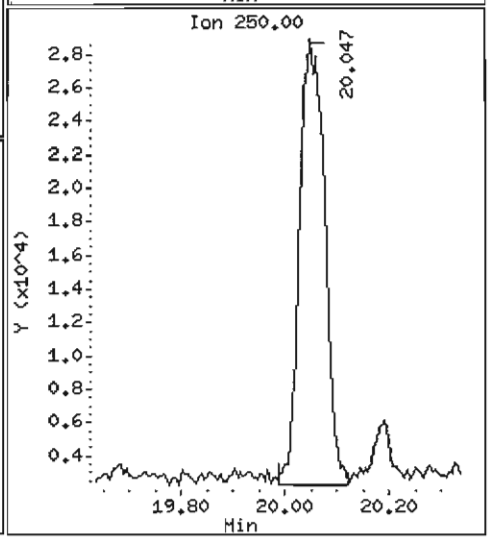












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

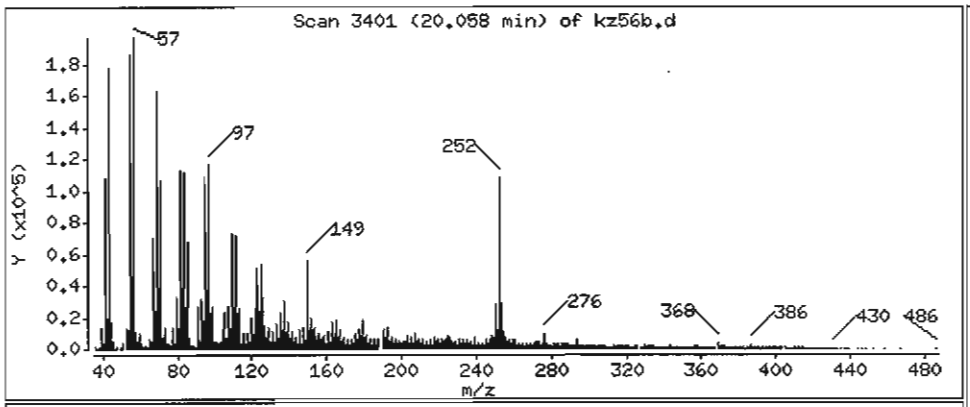
Operator: LJR/VTS

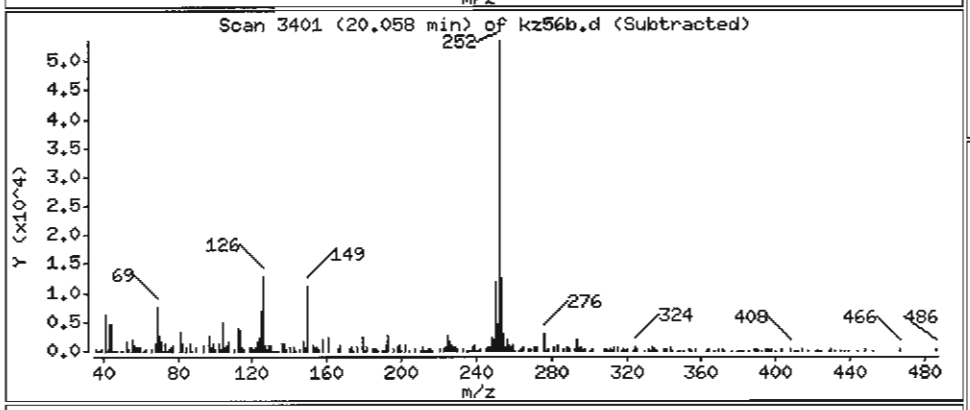
Column phase: ZB-5

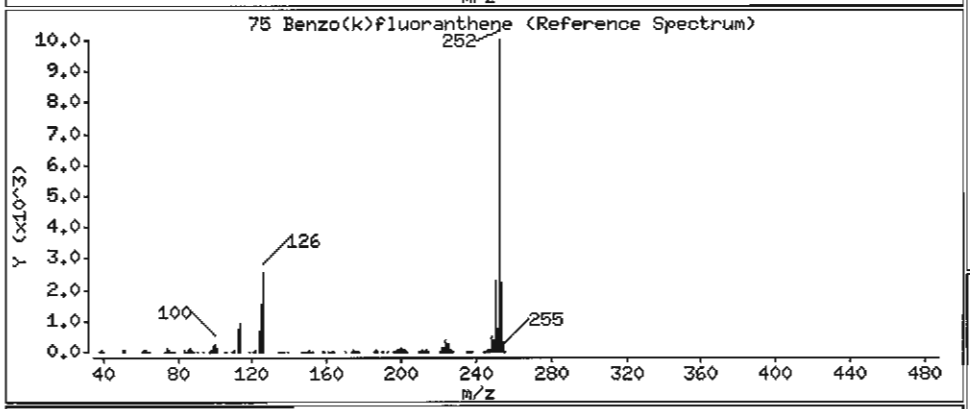
Column diameter: 0.32

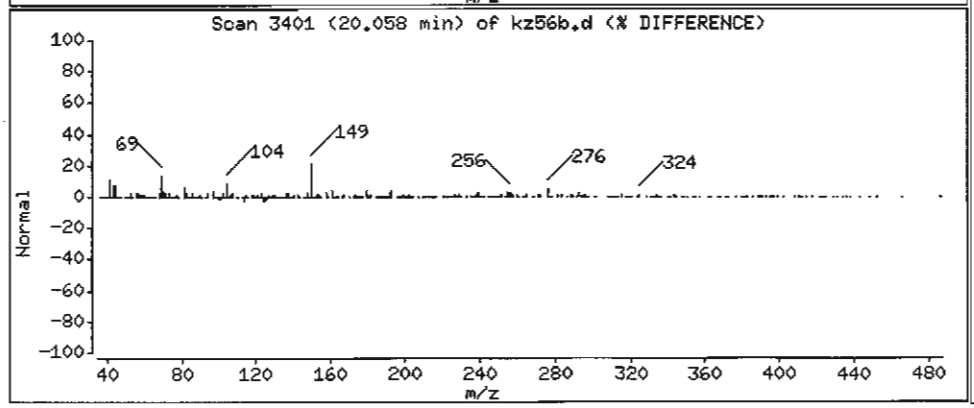
75 Benzo(k)fluoranthene

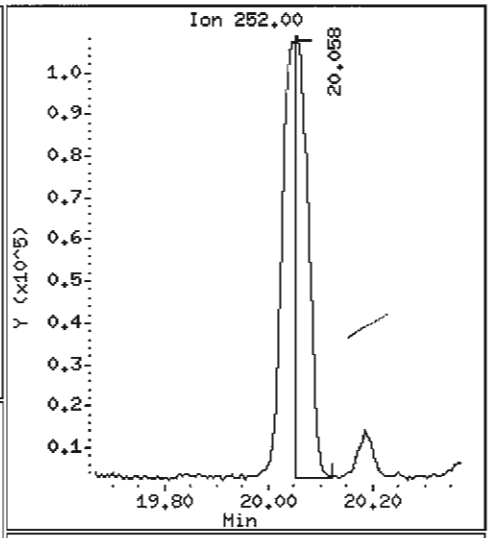
Concentration: 1498 ug/kg

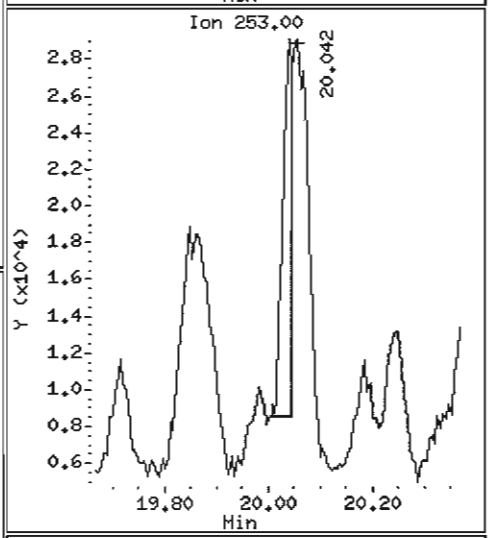


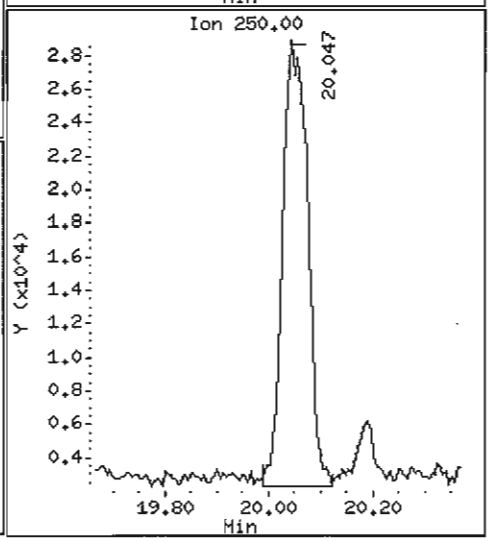












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

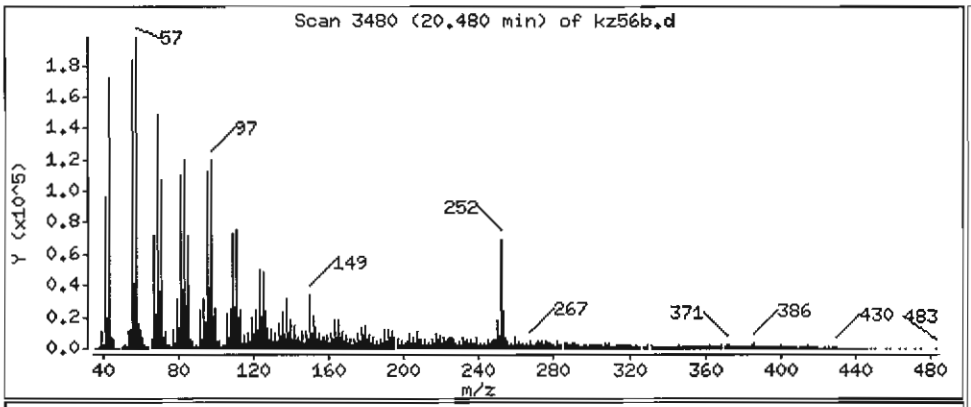
Operator: LJR/VTS

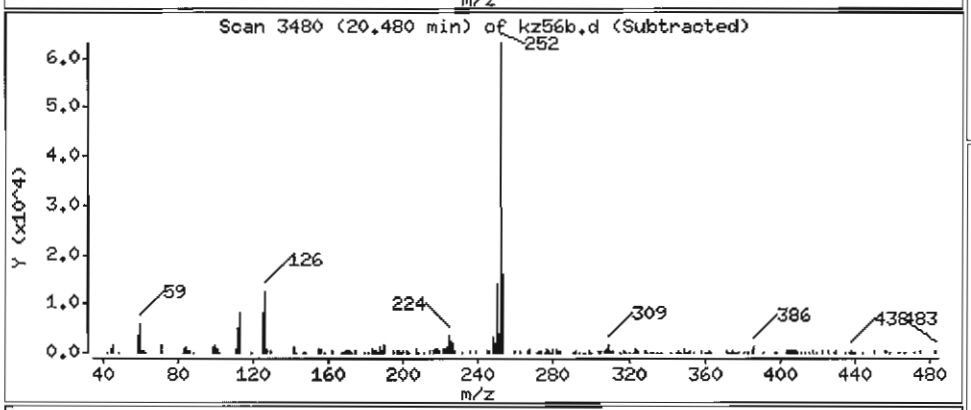
Column phase: ZB-5

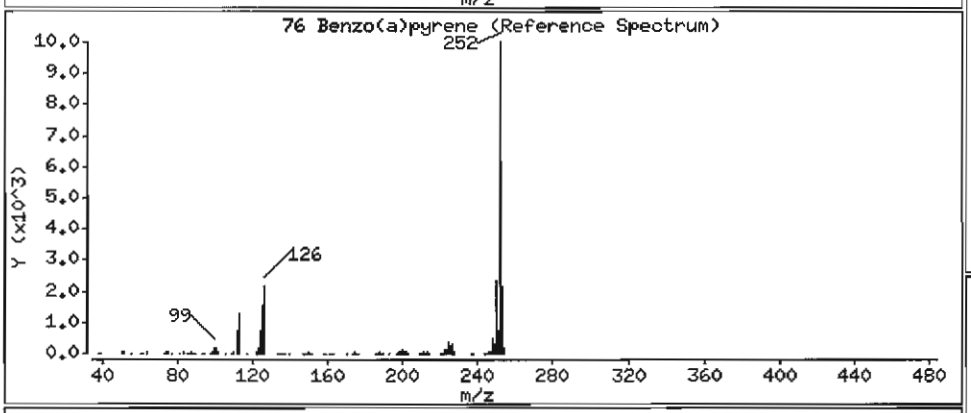
Column diameter: 0.32

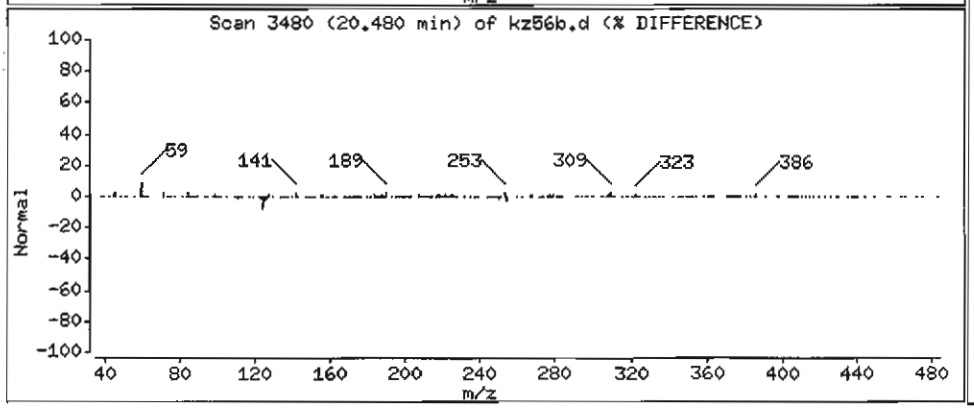
76 Benzo(a)pyrene

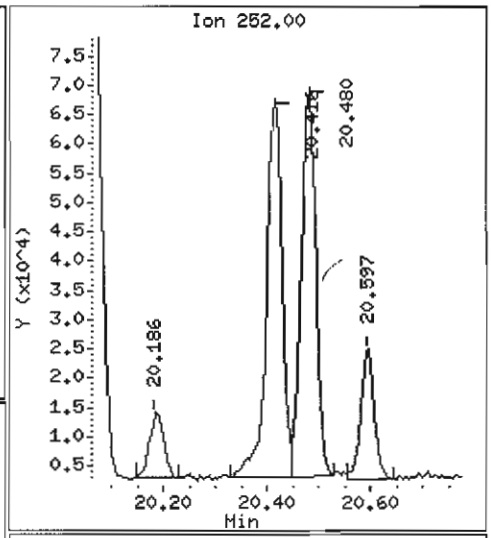
Concentration: 955.8 ug/kg

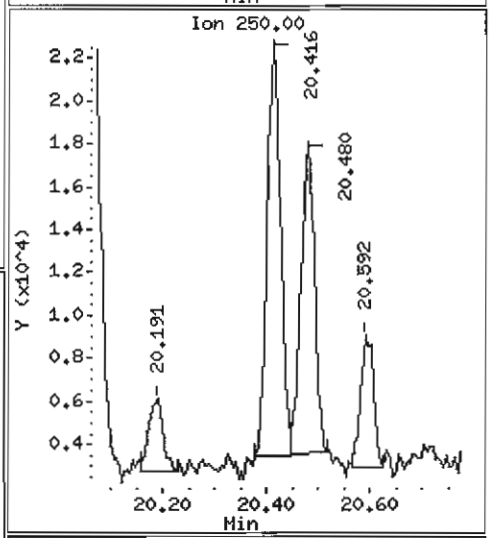


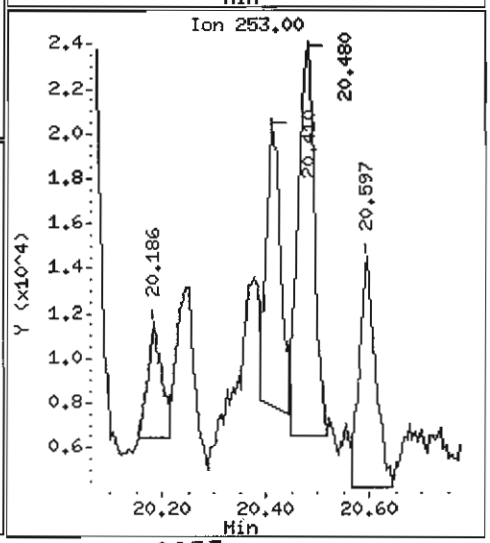












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

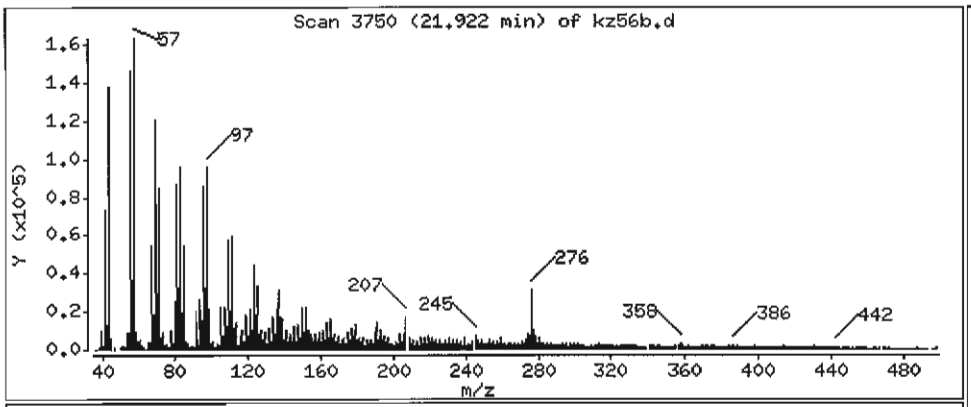
Operator: LJR/VTS

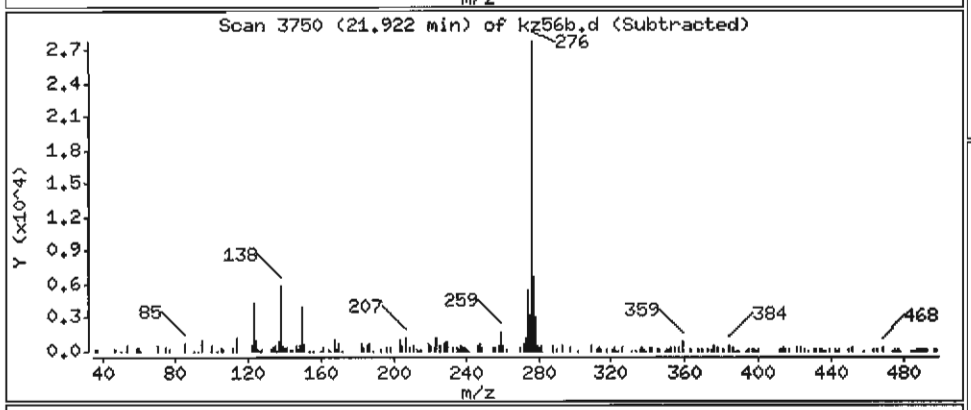
Column phase: ZB-5

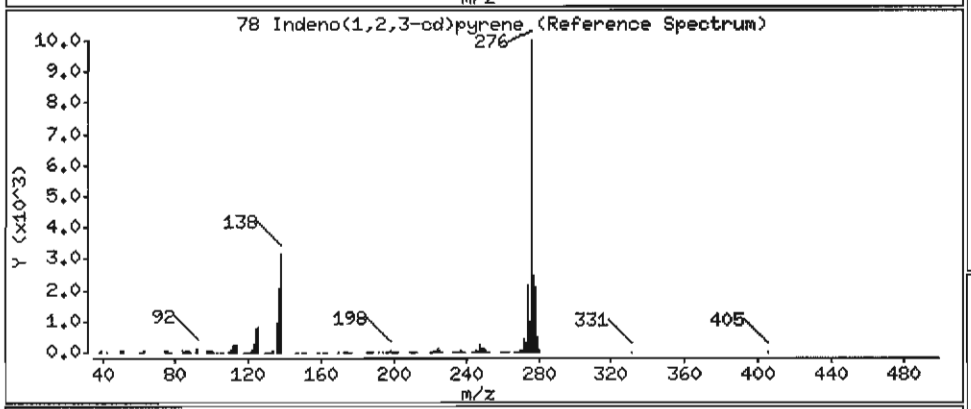
Column diameter: 0.32

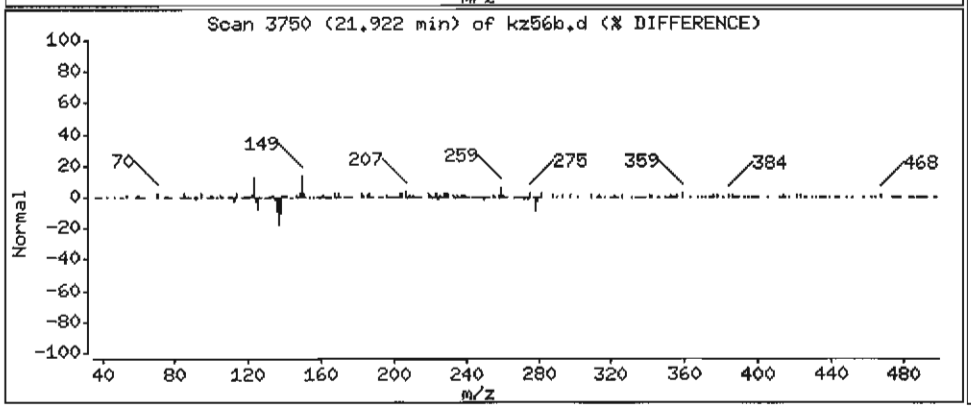
78 Indeno(1,2,3-cd)pyrene

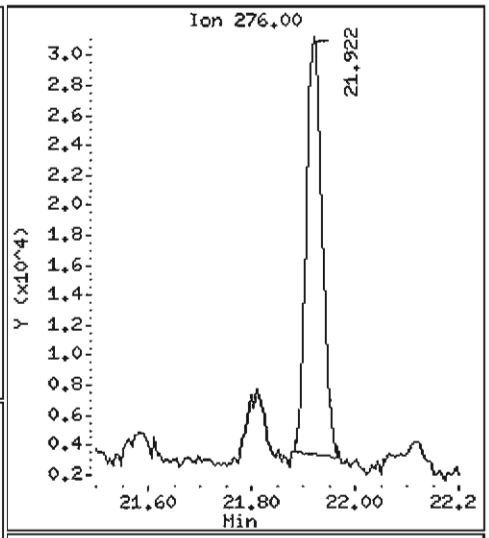
Concentration: 375.1 ug/kg

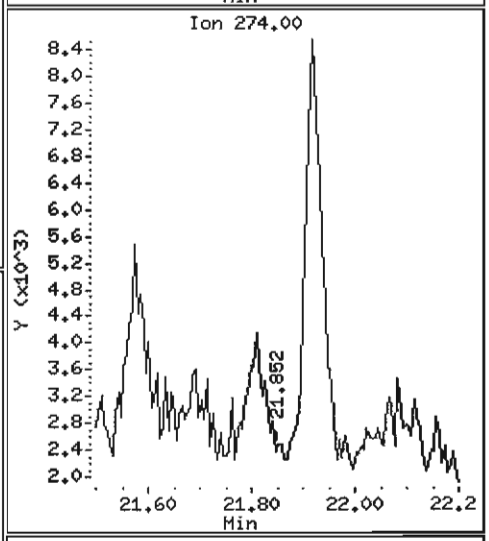


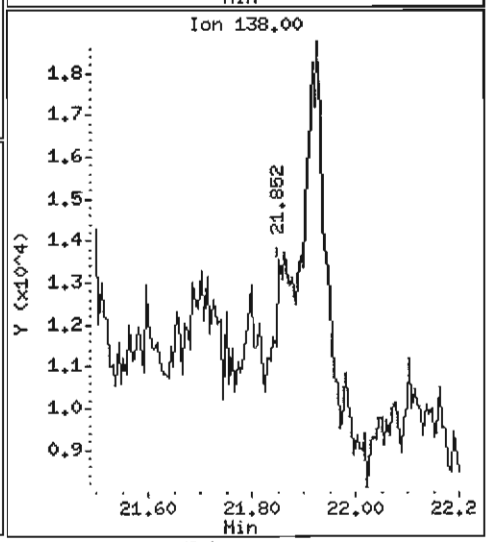












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

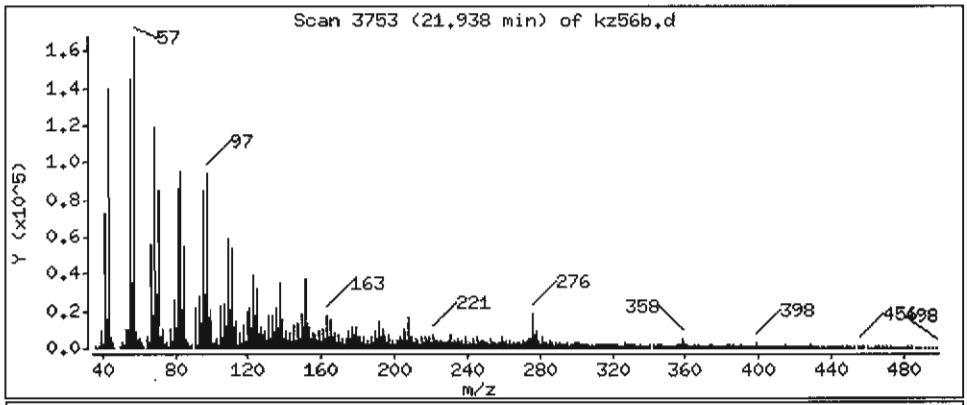
Column phase: ZB-5

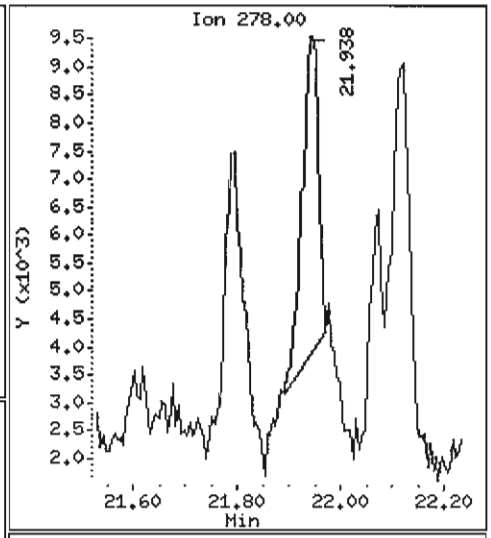
Column diameter: 0.32

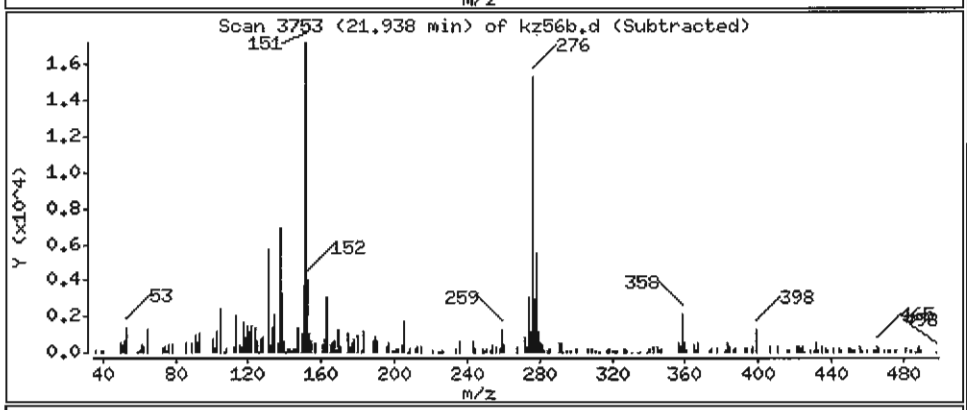
JLR

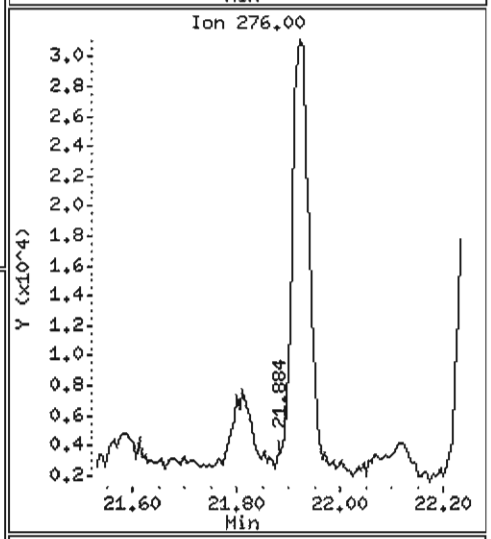
79 Dibenzo(a,h)anthracene

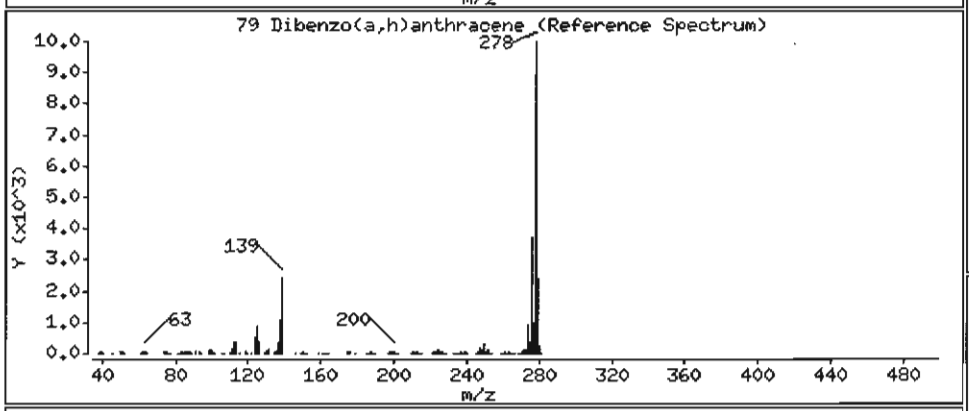
Concentration: 93.36 ug/kg

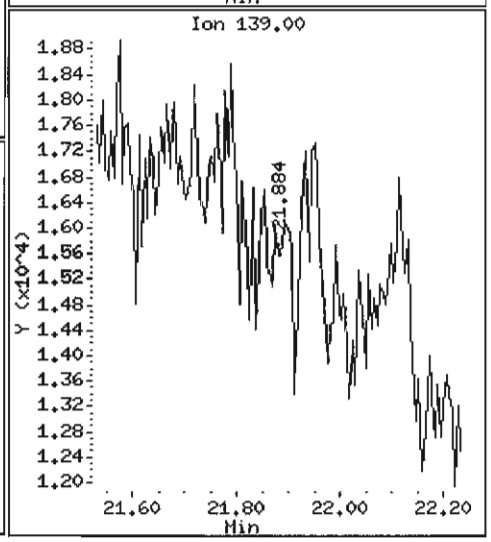


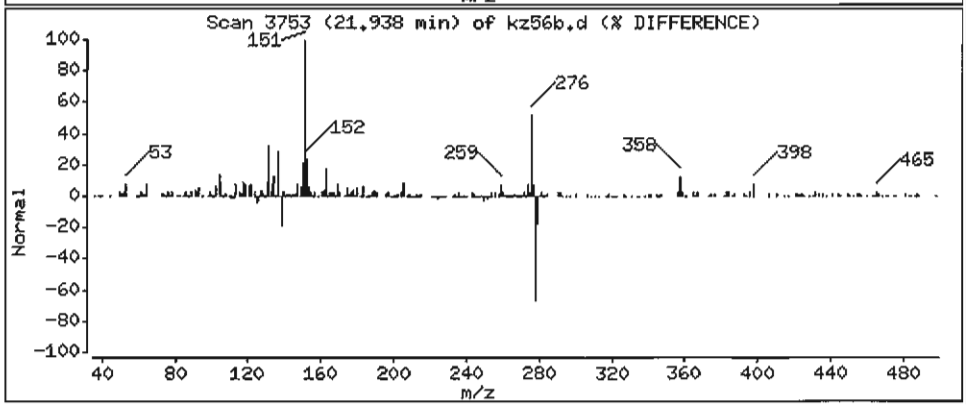












Data File: /chem1/nt6.i/20070526.b/kz56b.d

Date : 26-MAY-2007 19:21

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,3

Volume Injected (uL): 1.0

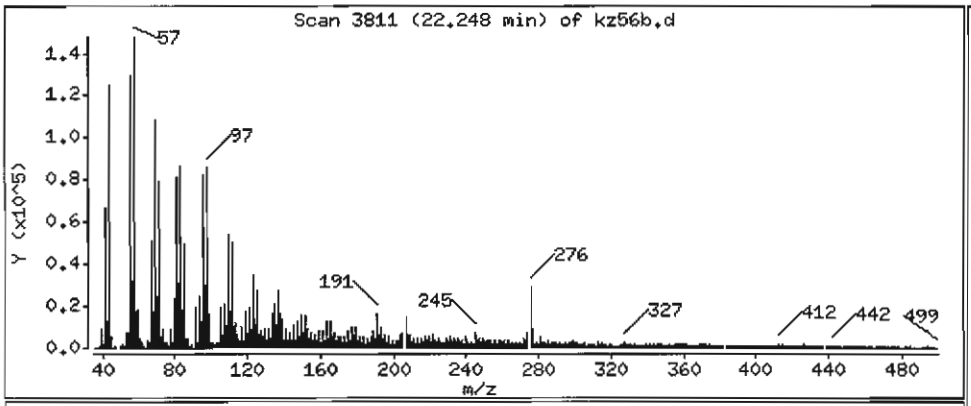
Operator: LJR/VTS

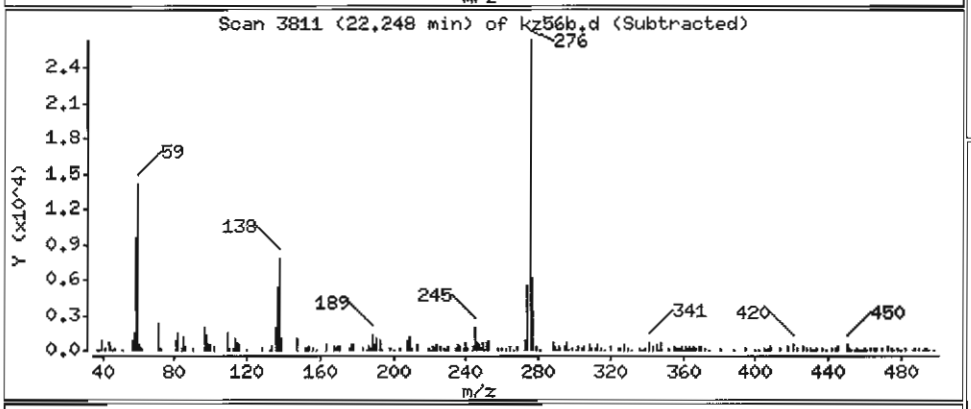
Column phase: ZB-5

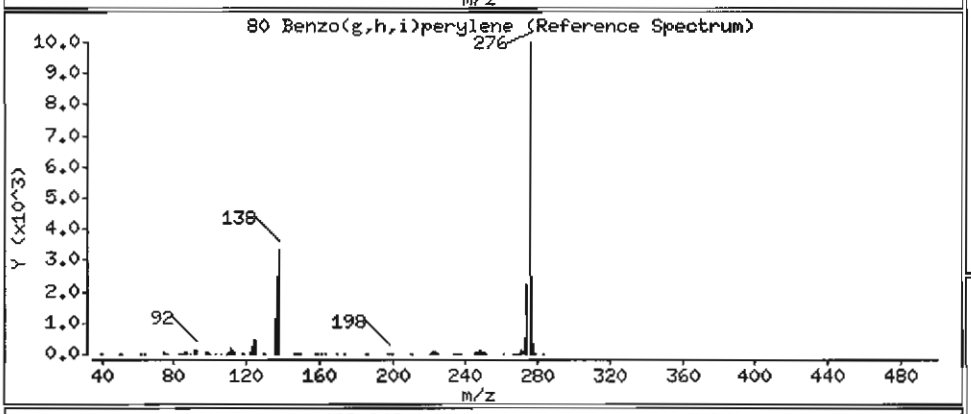
Column diameter: 0.32

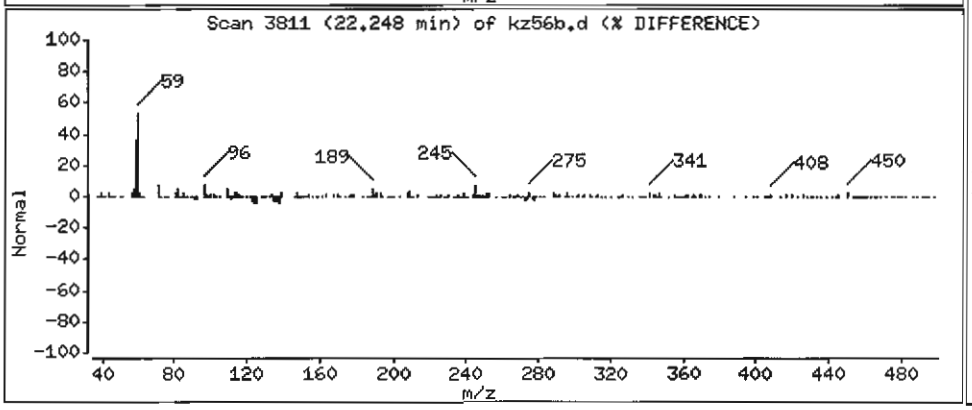
80 Benzo(g,h,i)perylene

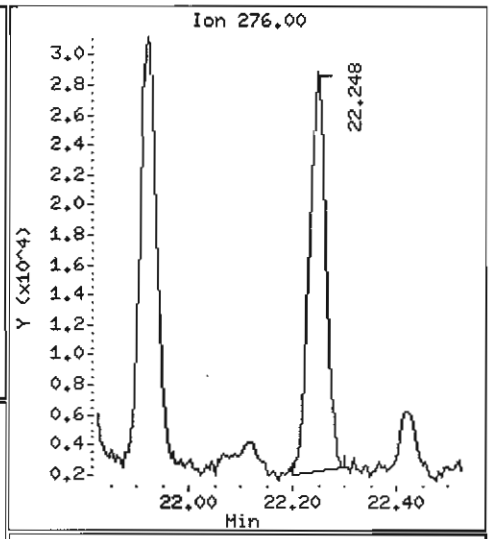
Concentration: 410.6 ug/kg

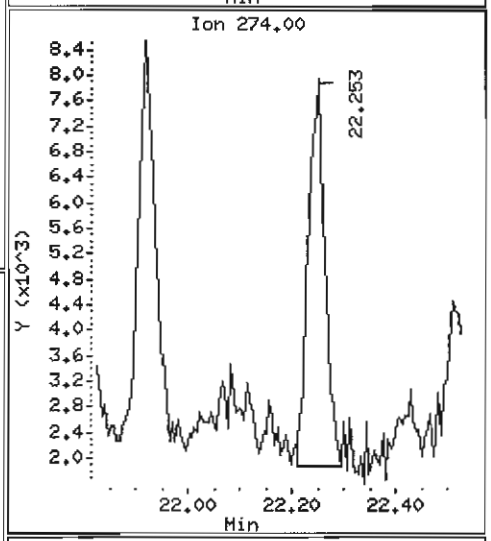


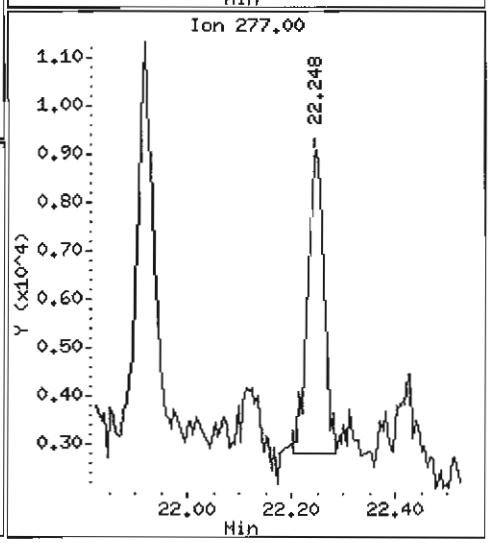












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC01-S
DILUTION

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 09:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 20.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 72.2%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	500	< 500 U
91-57-6	2-Methylnaphthalene	500	< 500 U
208-96-8	Acenaphthylene	500	< 500 U
83-32-9	Acenaphthene	500	< 500 U
132-64-9	Dibenzofuran	500	< 500 U
86-73-7	Fluorene	500	< 500 U
85-01-8	Phenanthrene	500	1,600
120-12-7	Anthracene	500	320 J
206-44-0	Fluoranthene	500	3,200
129-00-0	Pyrene	500	2,000
56-55-3	Benzo(a)anthracene	500	1,000
117-81-7	bis(2-Ethylhexyl)phthalate	500	14,000
218-01-9	Chrysene	500	1,800
205-99-2	Benzo(b)fluoranthene	500	1,500
207-08-9	Benzo(k)fluoranthene	500	1,300
50-32-8	Benzo(a)pyrene	500	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	500	680
53-70-3	Dibenz(a,h)anthracene	500	< 500 U
191-24-2	Benzo(g,h,i)perylene	500	750

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	63.2%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	63.5%	2-Fluorophenol	56.0%
2,4,6-Tribromophenol	60.8%	d4-2-Chlorophenol	64.5%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56bdl.d
Lab Smp Id: KZ56B — Client Smp ID: Y3-RC01-S
Inj Date : 29-MAY-2007 09:53
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56B,10
Misc Info : 07-9548
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 2
Dil Factor: 10.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	72.10000	Weight of sample extracted (g)
M	72.20000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.912	4.903	(0.722)	44521	2.09961	1048
$ 2 Phenol-d5	99	6.446	6.447	(0.947)	59138	2.37694	1186
3 Phenol	94	6.467	6.468	(0.951)	28219	1.03317	515.5
$ 5 2-Chlorophenol-d4	132	6.515	6.521	(0.958)	41565	2.41613	1205
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.804	6.805	(1.000)	233229	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.097	7.093	(1.043)	15585	1.48151	739.1
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	7.113	7.114	(1.046)	11403	0.83789 LDL	418.0(M)
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	7.605	7.606	(1.118)	25141	1.37315	685.1
$	18 Nitrobenzene-d5	82	7.722	7.729	(0.876)	33047	1.64497	820.7
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.609	8.701	(0.976)	81153	7.03131 LOL	3508(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.818	8.819	(1.000)	844285	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.618	10.619	(0.911)	45311	1.58011	788.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.654	11.655	(1.000)	424887	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.936	12.937	(1.110)	9867	2.28102	1138
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.005	14.001	(1.000)	604498	20.0000	
	60 Phenanthrene	178	14.037	14.038	(1.002)	129660	3.21401	1603
	61 Anthracene	178	14.106	14.107	(1.007)	27100	0.65013 LOL	324.4
	62 Carbazole	167	14.405	14.412	(1.029)	24180	0.67412 ↓	336.3(M)
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.960	15.956	(1.140)	249277	6.51267	3249
65 Pyrene	202	16.307	16.303	(0.892)	166444	4.01595	2004
$ 66 Terphenyl-d14	244	16.654	16.650	(0.911)	43412	1.65404	825.2
67 Butylbenzylphthalate	149	17.563	17.558	(0.961)	20308	1.04213	519.9(M)
68 Benzo(a)anthracene	228	18.262	18.253	(0.999)	75249	2.01675	1006
* 69 Chrysene-d12	240	18.284	18.280	(1.000)	499499	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.321	18.322	(1.002)	132346	3.50635	1749
72 bis(2-Ethylhexyl)phthalate	149	18.583	18.573	(0.952)	822437	28.1380	14040
* 134 Di-n-octylphthalate-d4	153	19.518	19.503	(1.000)	853358	20.0000	
73 Di-n-octylphthalate	149	19.534	19.514	(1.001)	53858	1.06238	530.0(M)
74 Benzo(b)fluoranthene	252	19.913	19.898	(0.975)	112442	2.95825	1476(M)
75 Benzo(k)fluoranthene	252	19.924	19.930	(0.975)	92271	2.52702	1261(M)
76 Benzo(a)pyrene	252	20.351	20.336	(0.996)	78299	2.05808	1027(M)
* 77 Perylene-d12	264	20.431	20.416	(1.000)	586227	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.778	21.768	(1.066)	61444	1.36606	681.5(M)
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	22.093	22.078	(1.081)	61877	1.50171	749.2(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.366	6.377	(0.936)	139936	4.01153	2001
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56bdl.d
Lab Smp Id: KZ56B
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9548

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC01-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	233229	7.14
27 Naphthalene-d8	775413	387706	1550826	844285	8.88
42 Acenaphthene-d10	371068	185534	742136	424887	14.50
59 Phenanthrene-d10	554165	277082	1108330	604498	9.08
69 Chrysene-d12	436021	218010	872042	499499	14.56
134 Di-n-octylphthala	773344	386672	1546688	853358	10.35
77 Perylene-d12	622369	311184	1244738	586227	-5.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.80	-0.02
27 Naphthalene-d8	8.82	8.32	9.32	8.82	-0.01
42 Acenaphthene-d10	11.66	11.16	12.16	11.65	-0.01
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	0.03
69 Chrysene-d12	18.28	17.78	18.78	18.28	0.02
134 Di-n-octylphthala	19.50	19.00	20.00	19.52	0.08
77 Perylene-d12	20.42	19.92	20.92	20.43	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56B
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9548

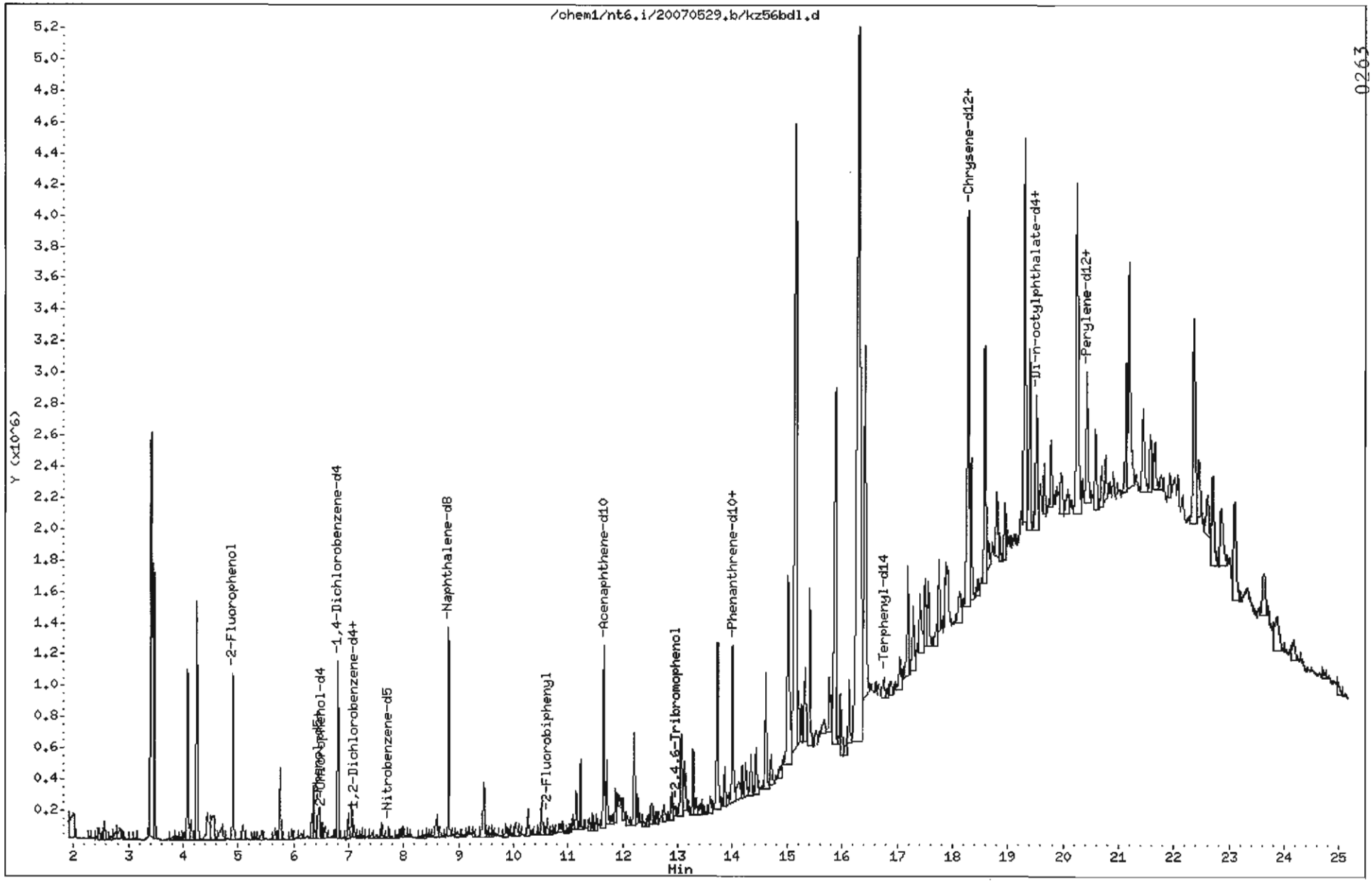
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC01-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1871	1048	55.99	11-84
$ 2 Phenol-d5	1871	1186	63.39	25-86
$ 5 2-Chlorophenol-d4	1871	1205	64.43	23-91
$ 10 1,2-Dichlorobenzen	1247	739.1	59.26	24-90
$ 18 Nitrobenzene-d5	1247	820.7	65.80	26-88
$ 36 2-Fluorobiphenyl	1247	788.3	63.20	34-91
$ 55 2,4,6-Tribromophen	1871	1138	60.83	25-107
$ 66 Terphenyl-d14	1247	825.2	66.16	22-100

Data File: /chem1/nt6.i/20070529.b/kz56bdl.d
Date : 29-MAY-2007 09:53
Client ID: Y3-RC01-S
Sample Info: KZ56B,10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



0263

Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

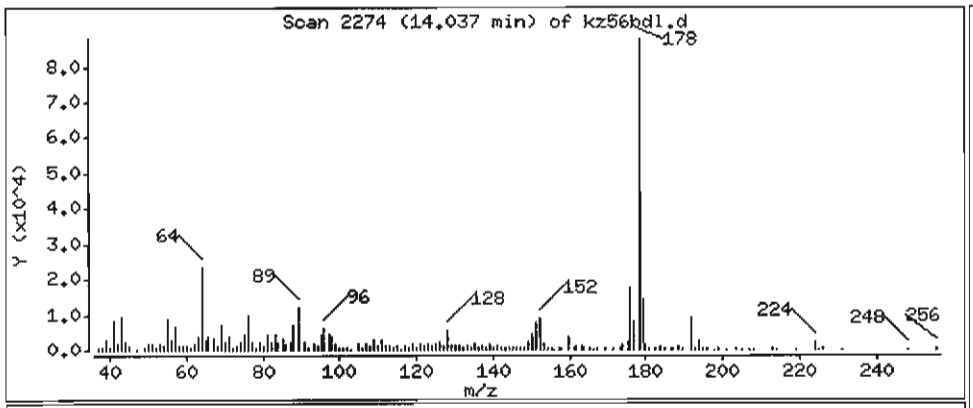
Operator: LJR/VTS

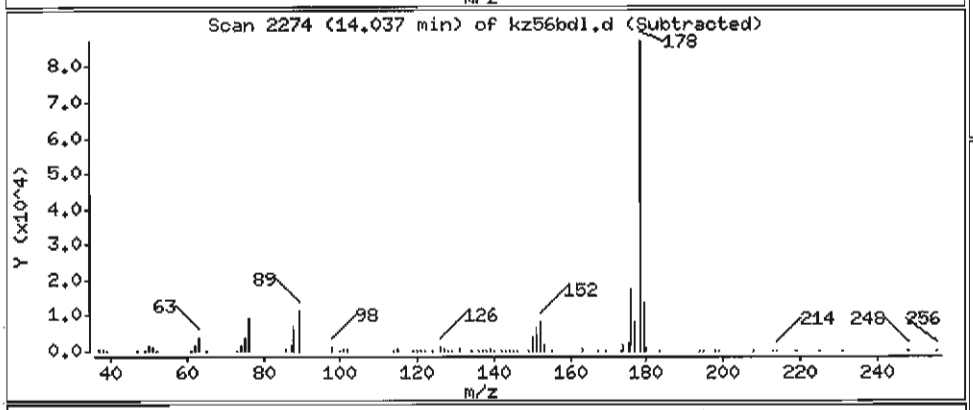
Column phase: ZB-5

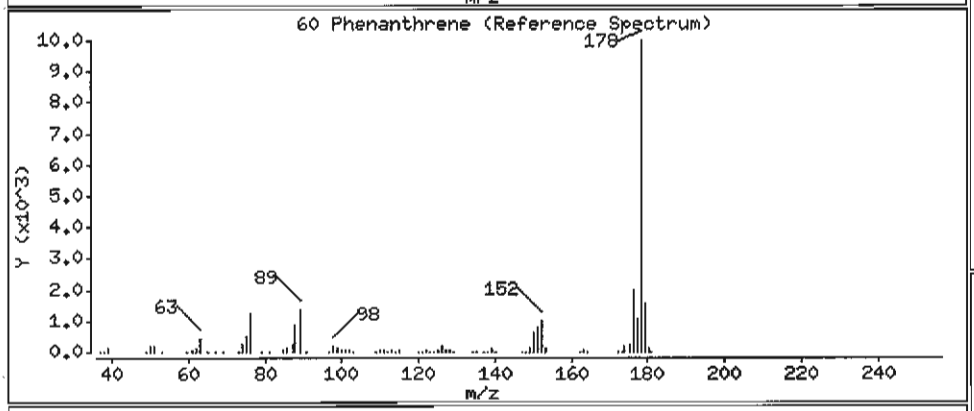
Column diameter: 0.32

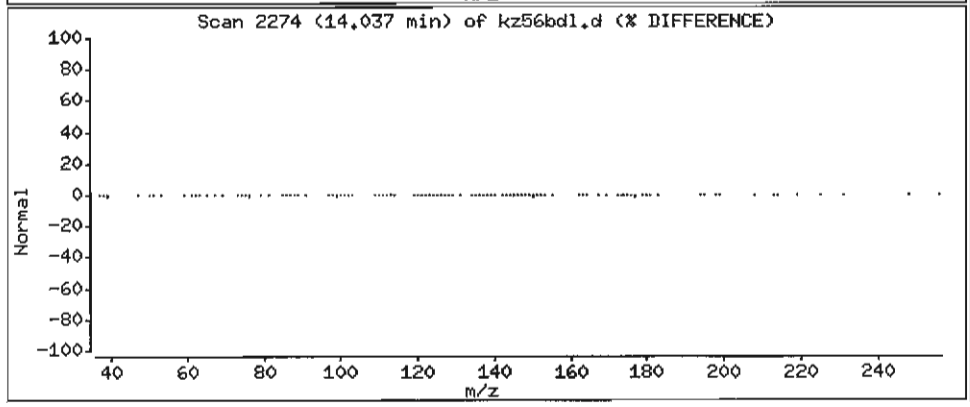
60 Phenanthrene

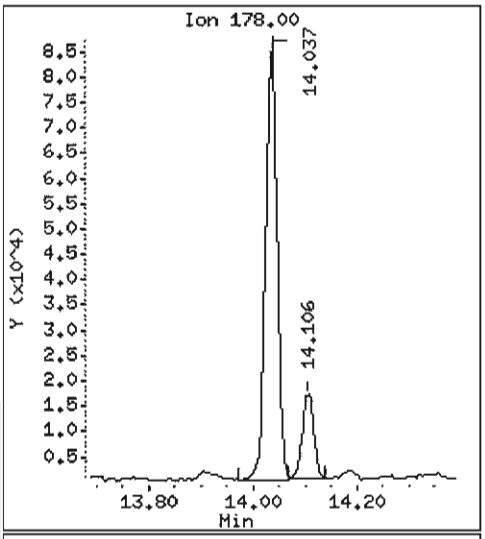
Concentration: 1603 ug/kg

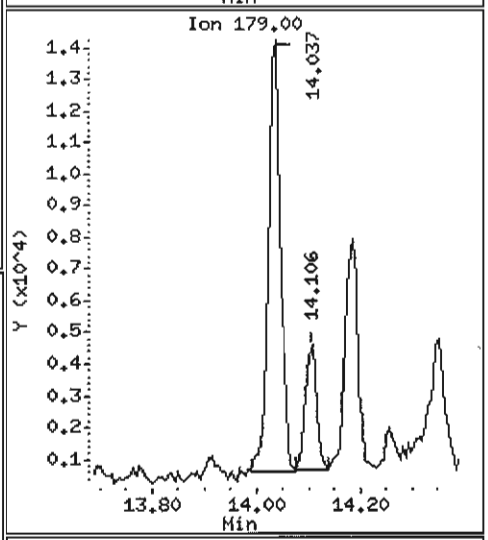


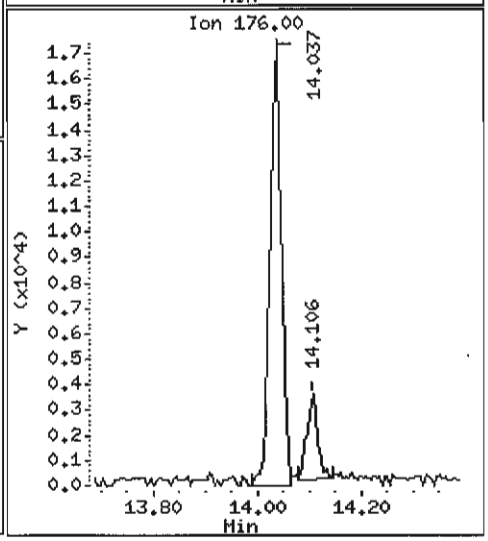












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

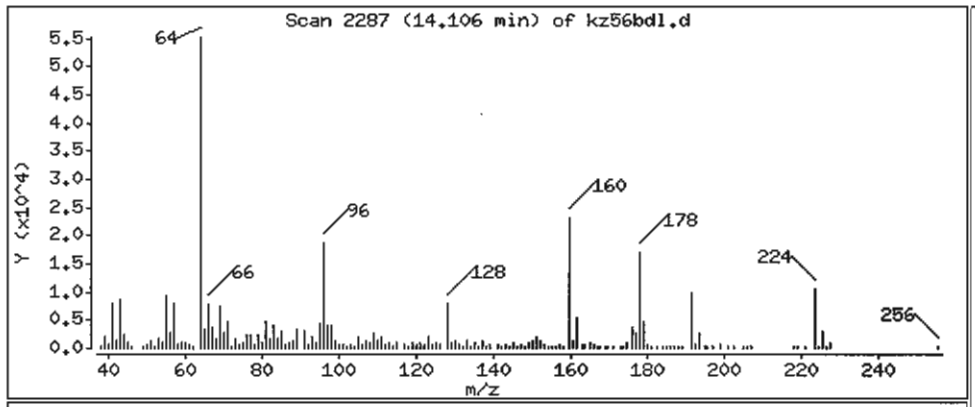
Operator: LJR/VTS

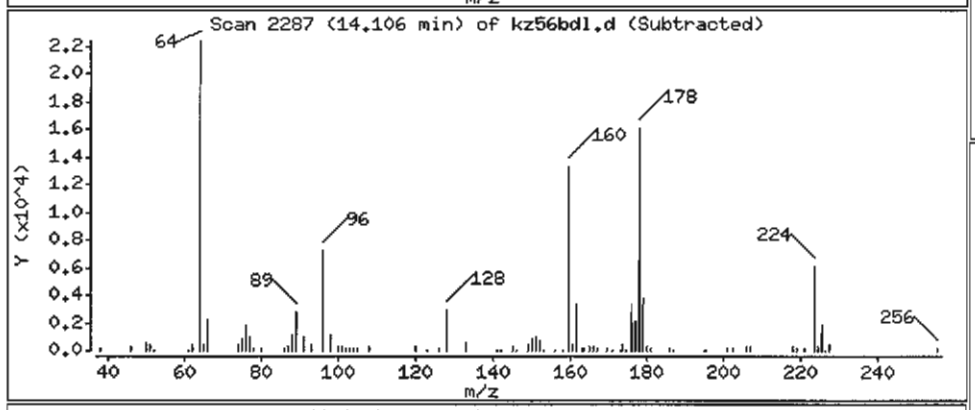
Column phase: ZB-5

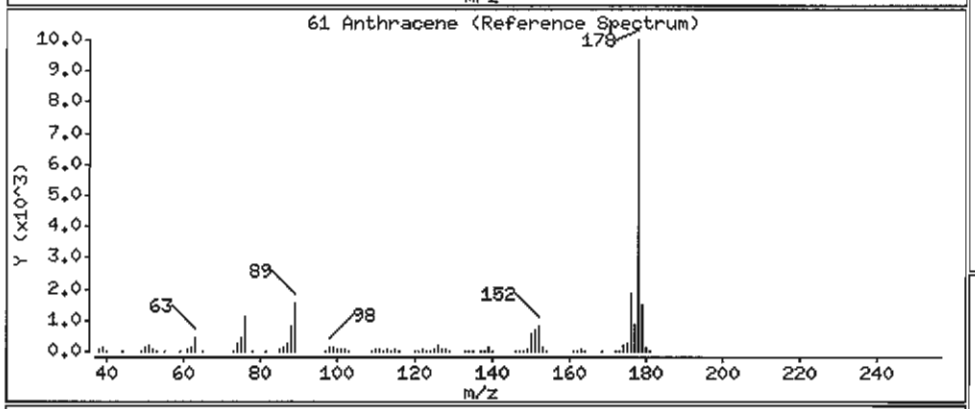
Column diameter: 0.32

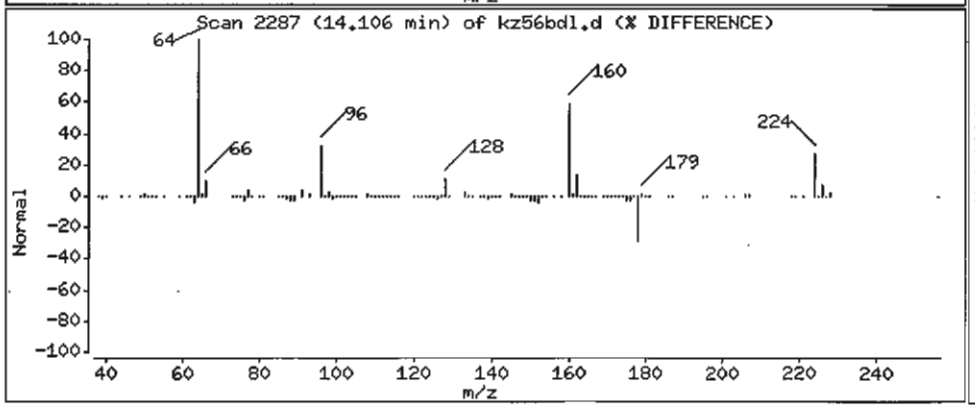
61 Anthracene

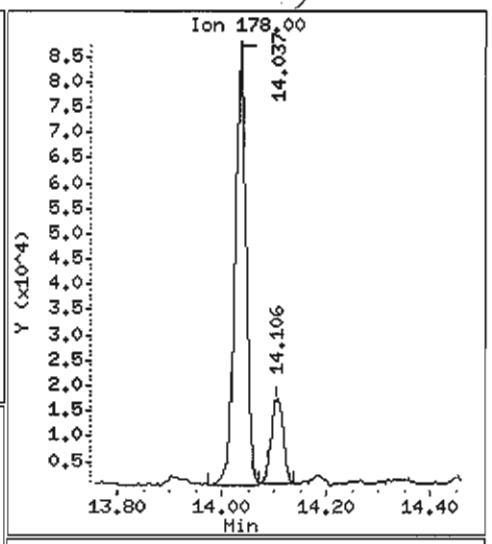
Concentration: 324.4 ug/kg

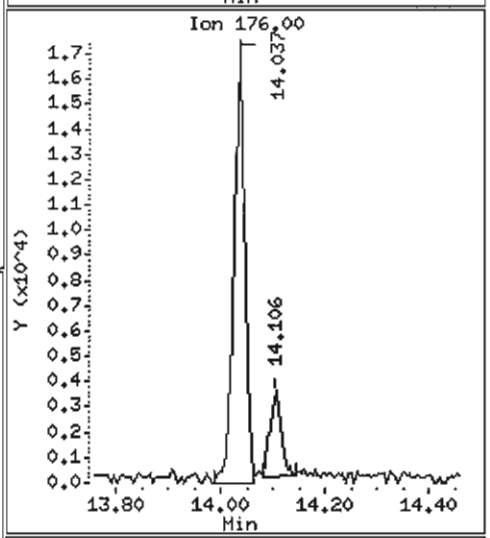


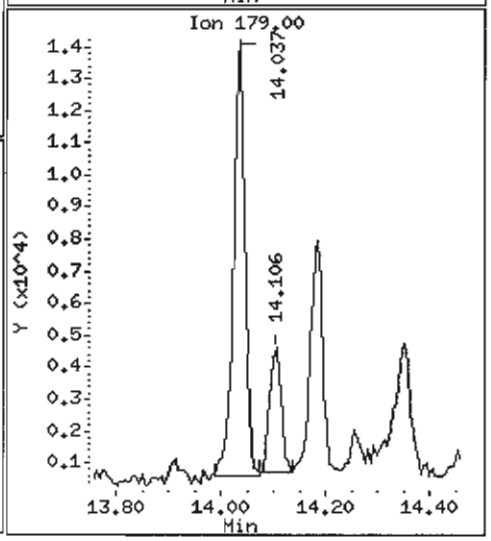












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

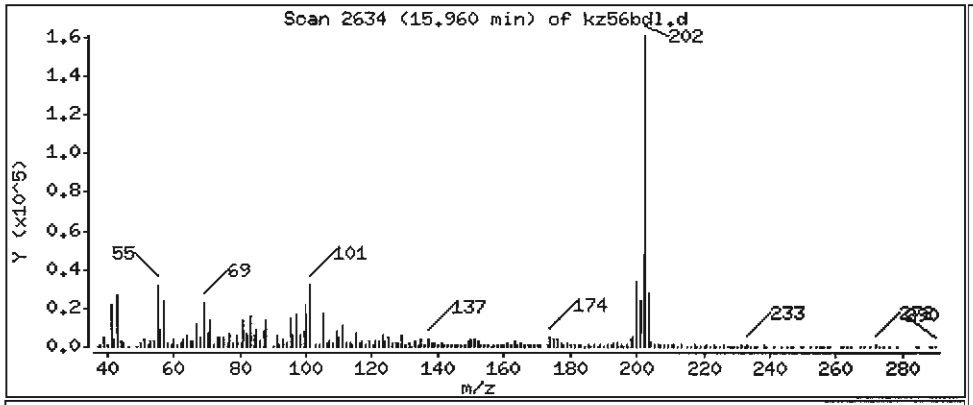
Operator: LJR/VTS

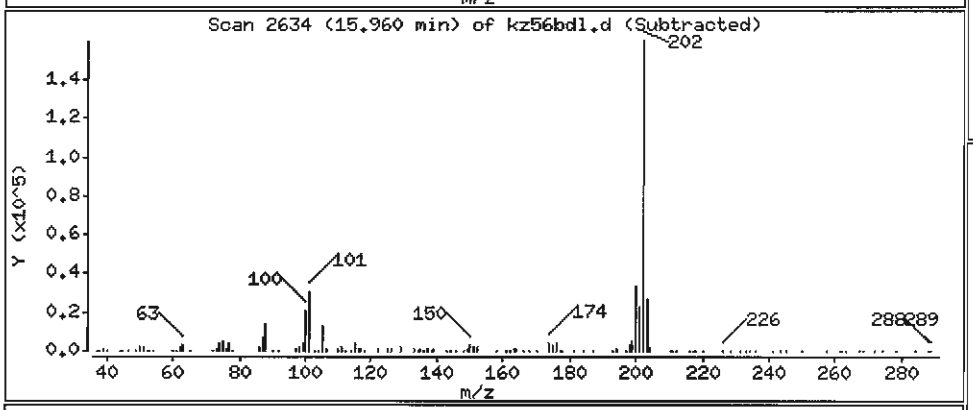
Column phase: ZB-5

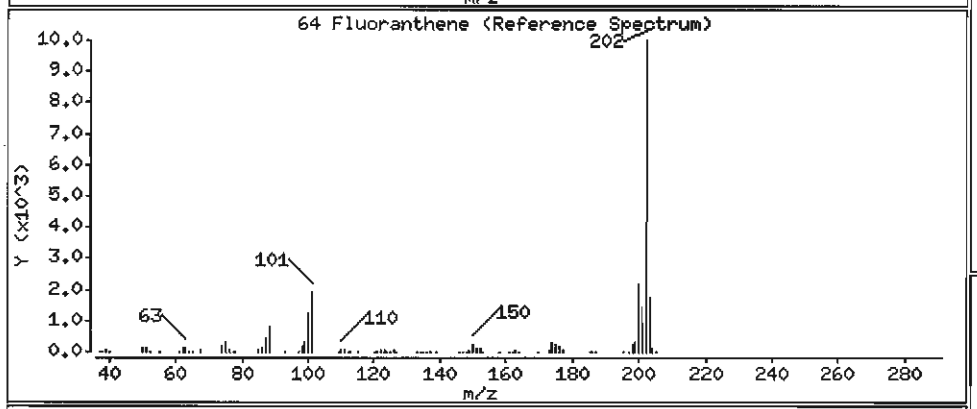
Column diameter: 0.32

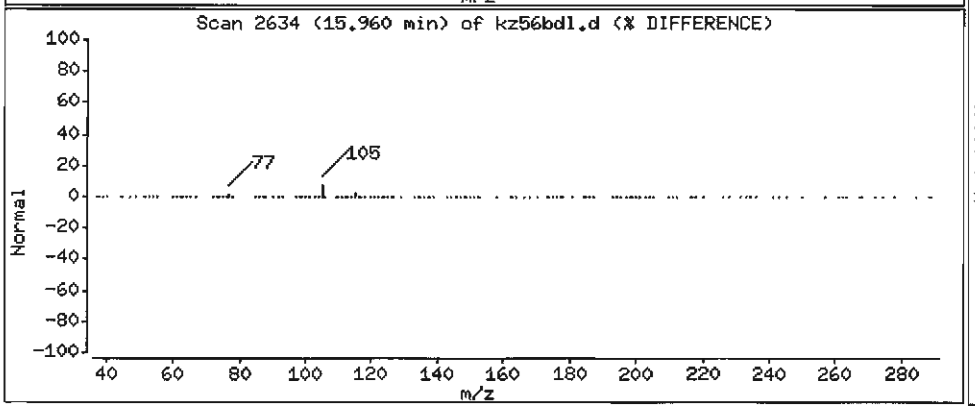
64 Fluoranthene

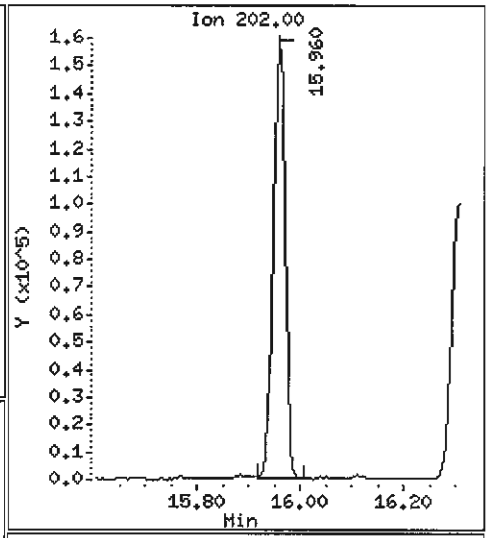
Concentration: 3249 ug/kg

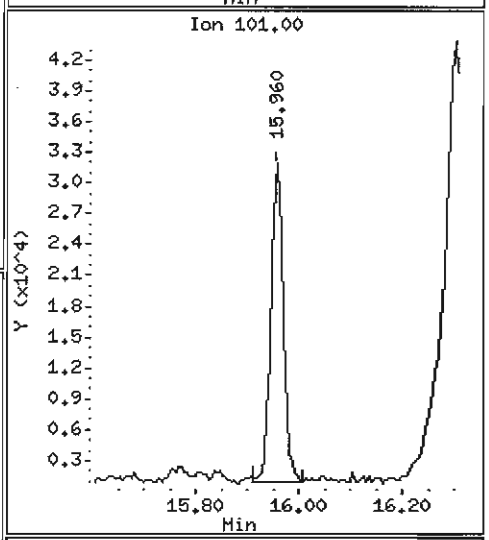


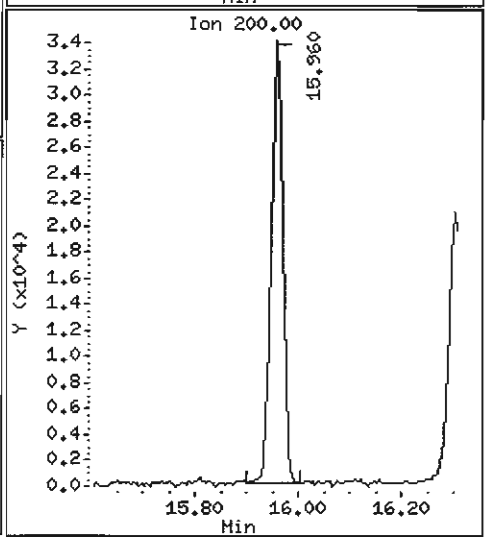












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

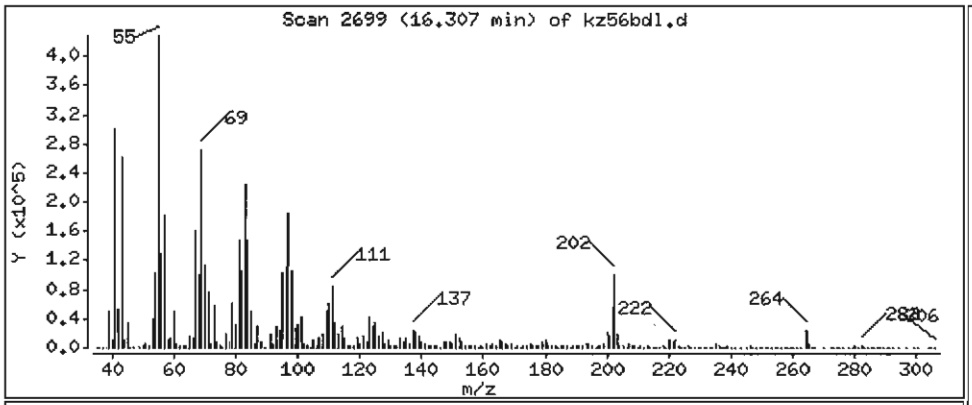
Operator: LJR/VTS

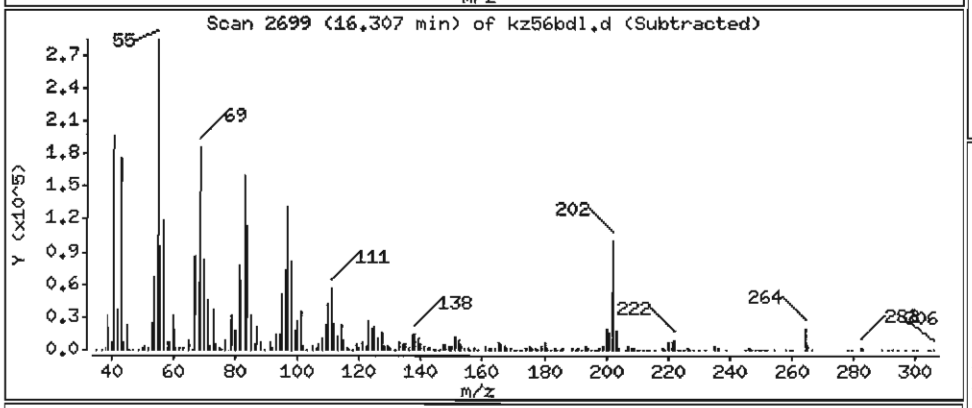
Column phase: ZB-5

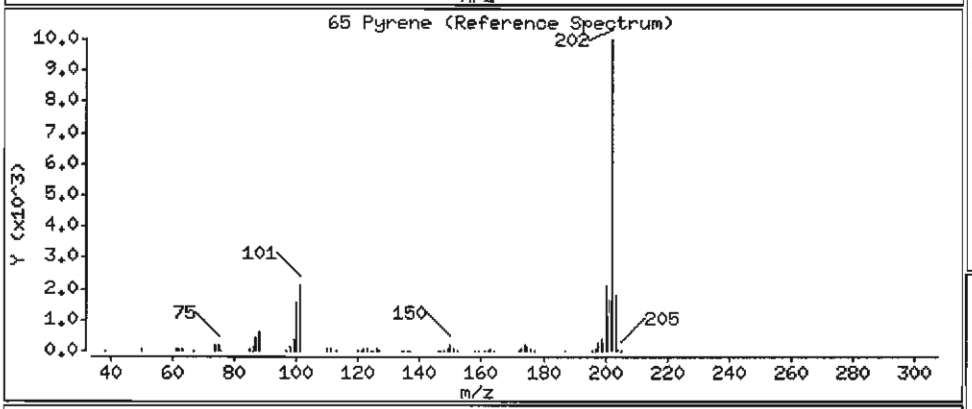
Column diameter: 0.32

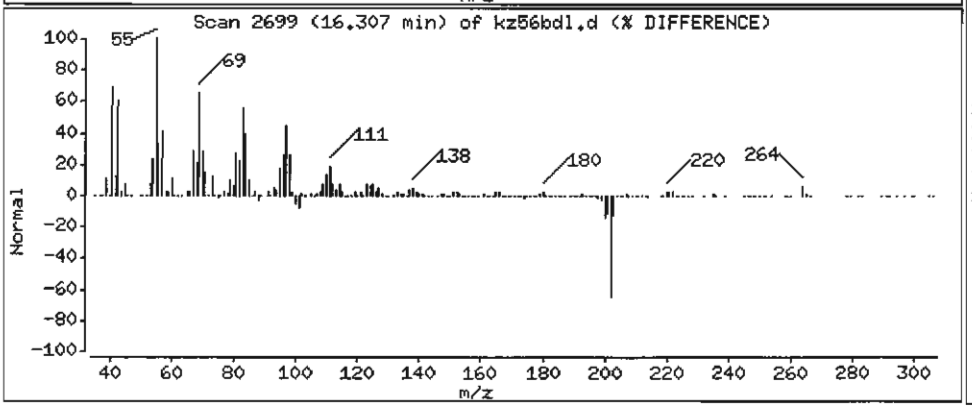
65 Pyrene

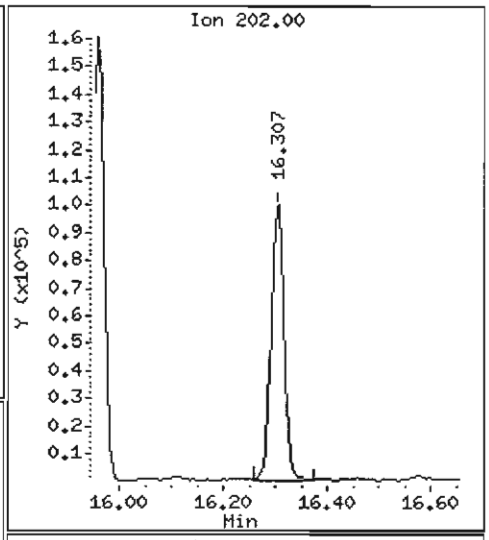
Concentration: 2004 ug/kg

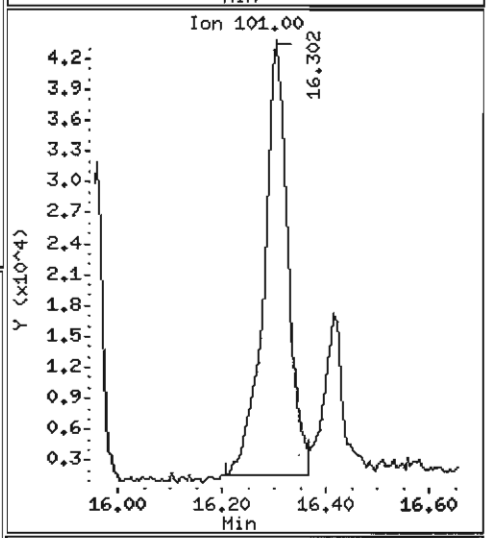


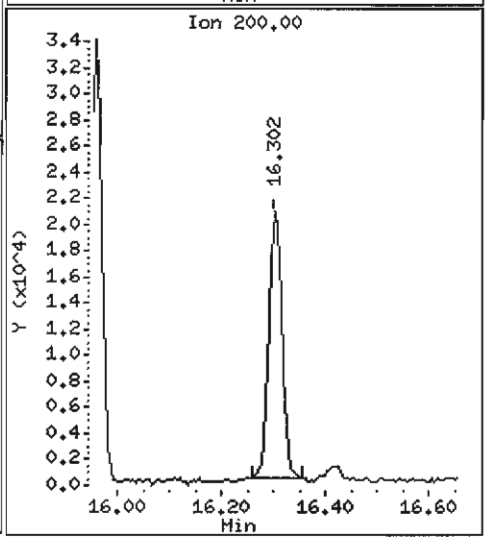












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

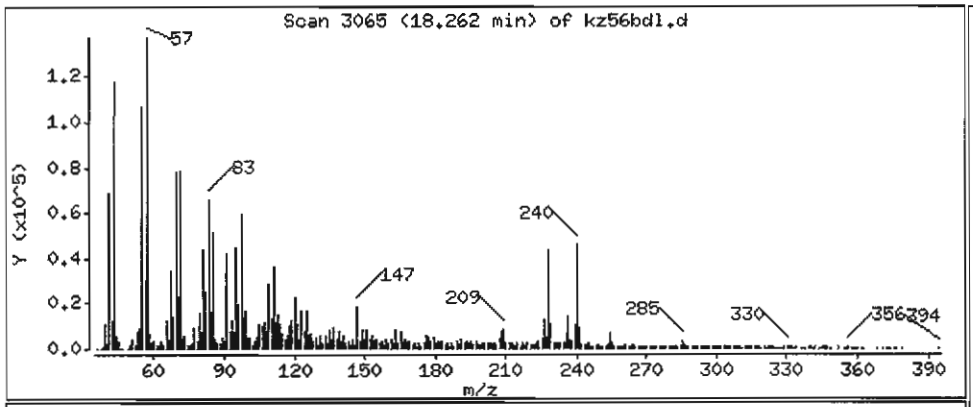
Operator: LJR/VTS

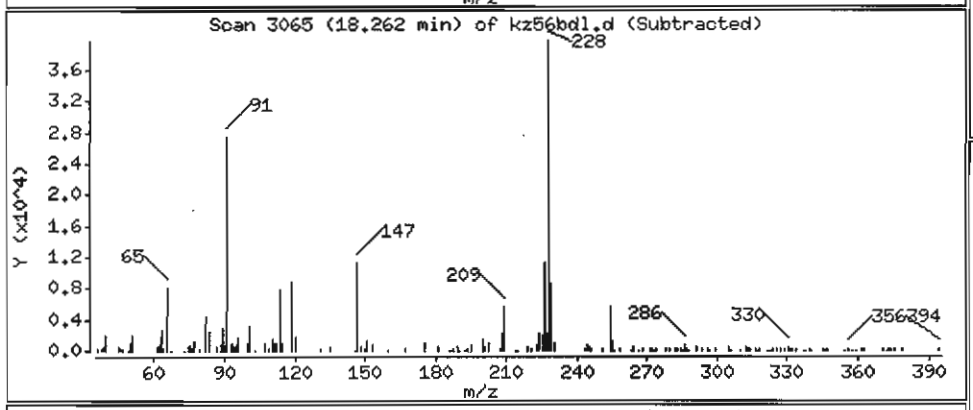
Column phase: ZB-5

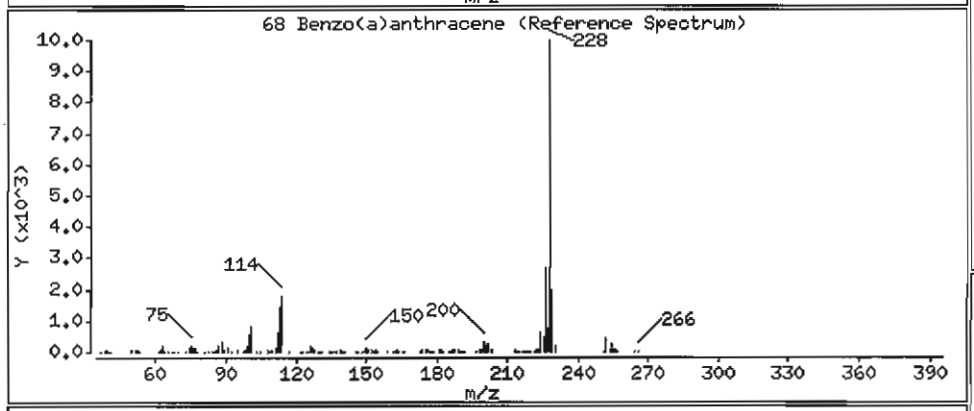
Column diameter: 0.32

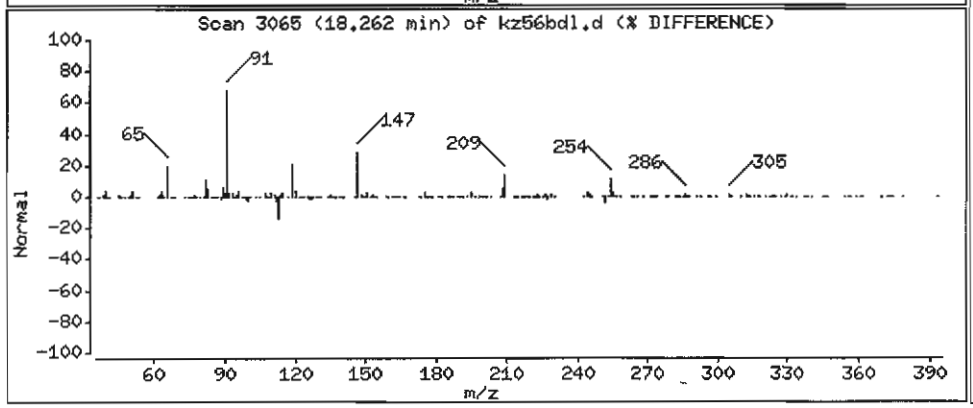
68 Benzo(a)anthracene

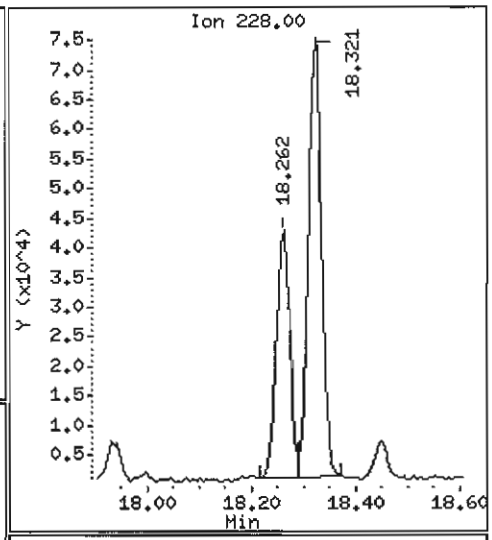
Concentration: 1006 ug/kg

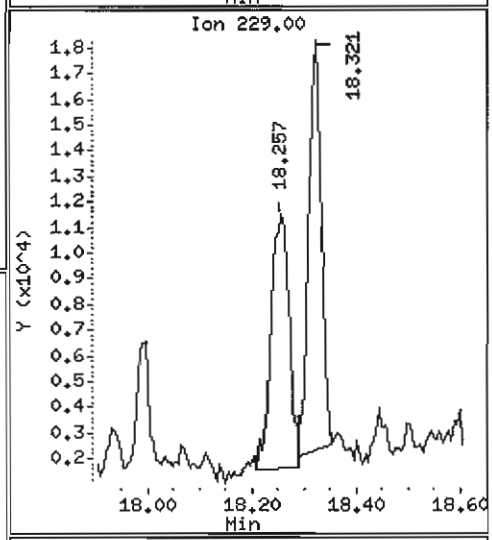


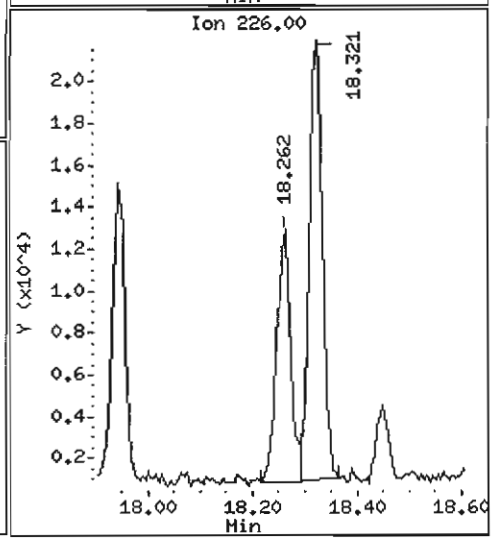












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

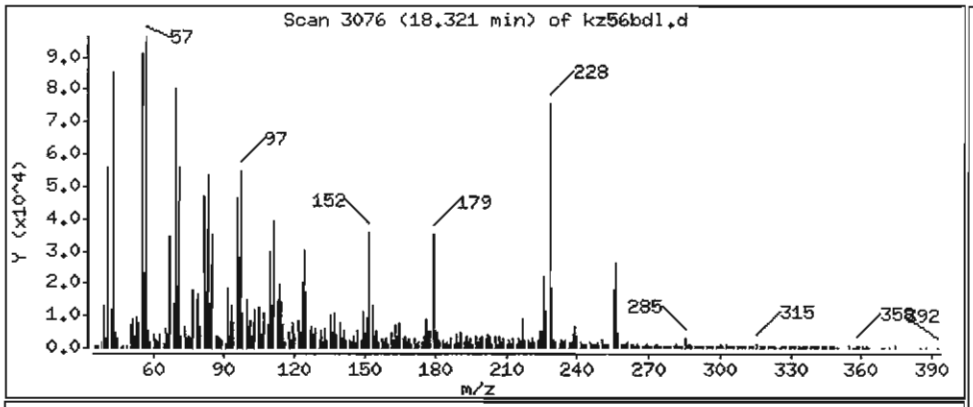
Operator: LJR/VTS

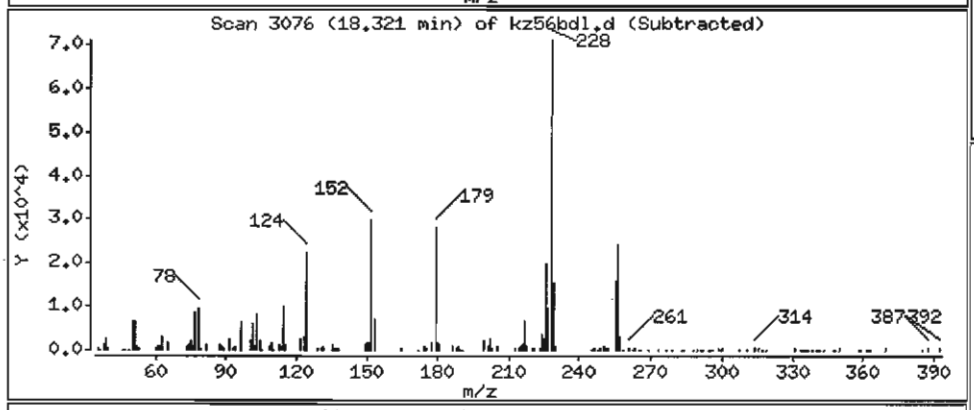
Column phase: ZB-5

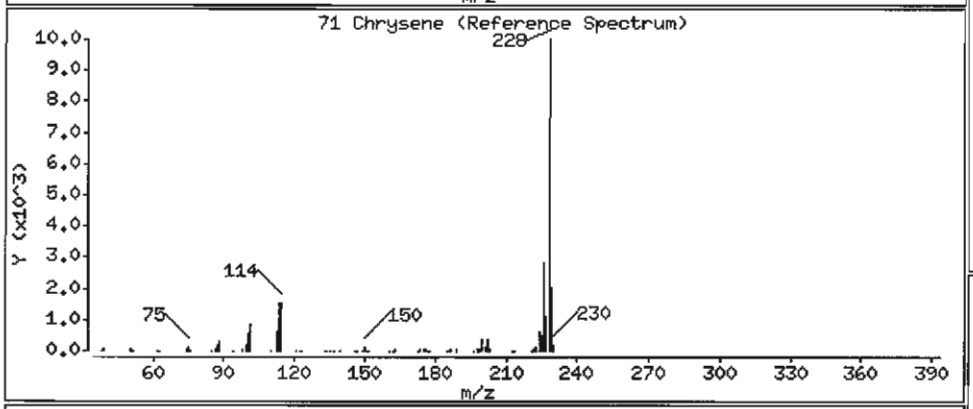
Column diameter: 0.32

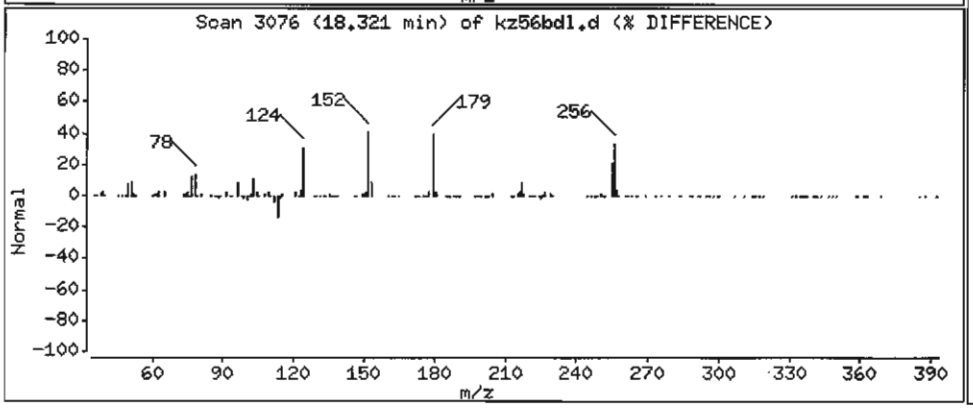
71 Chrysene

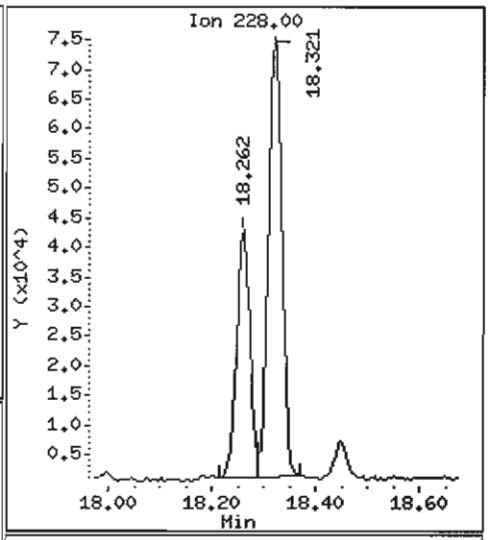
Concentration: 1749 ug/kg

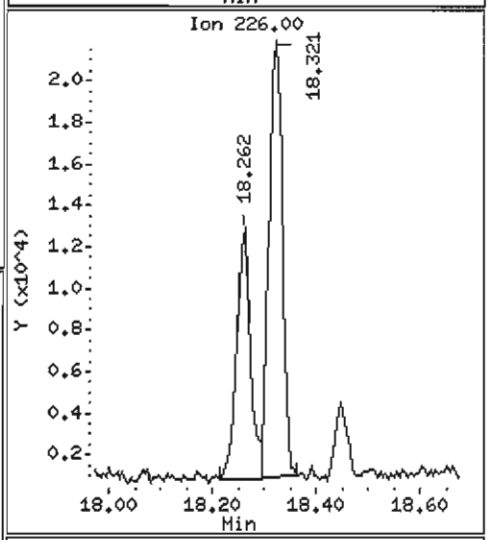


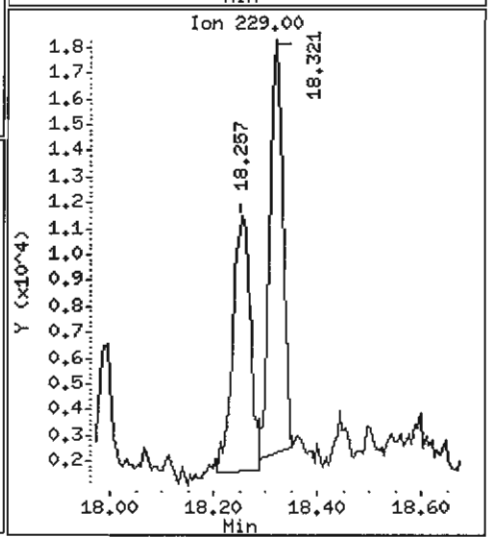












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

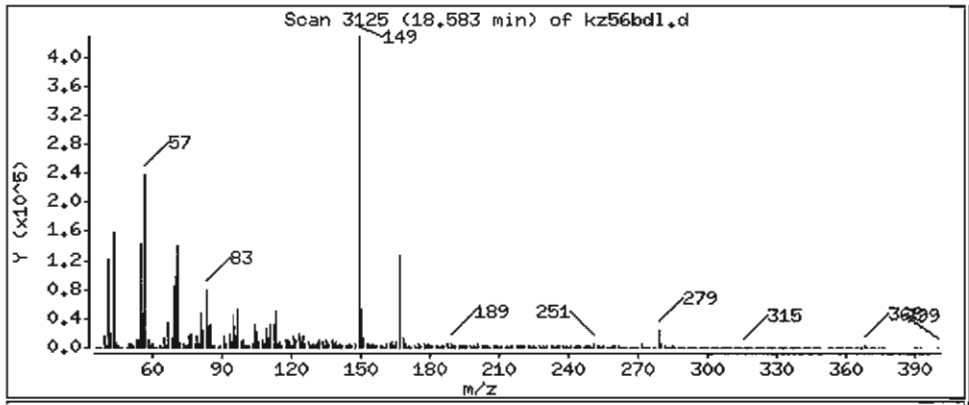
Operator: LJR/VTS

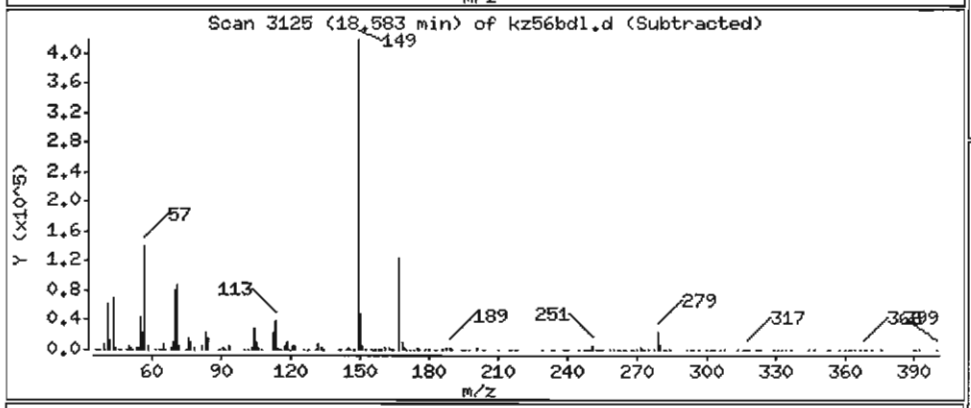
Column phase: ZB-5

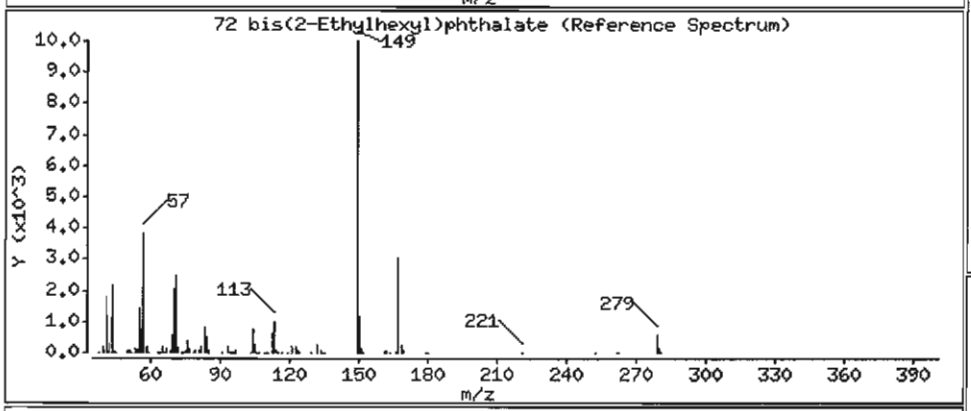
Column diameter: 0.32

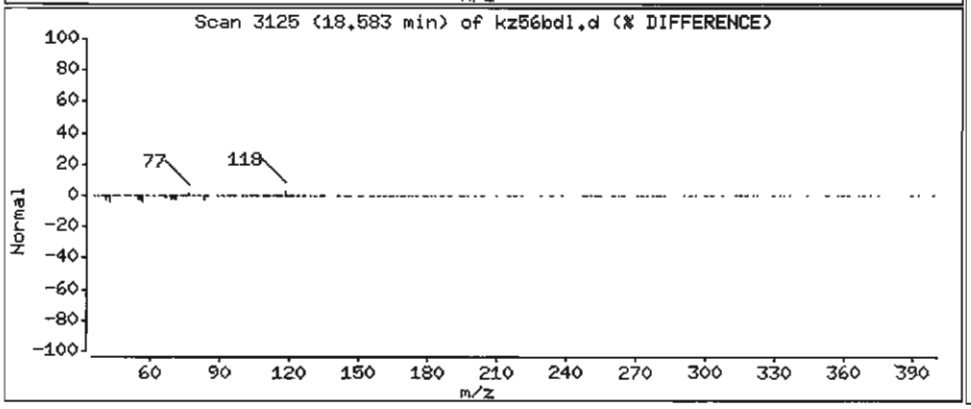
72 bis(2-Ethylhexyl)phthalate

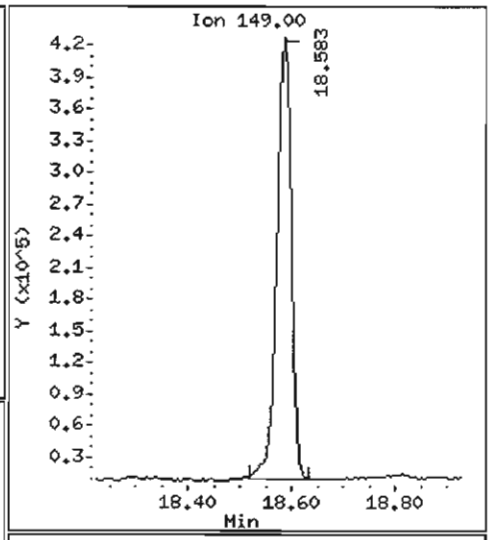
Concentration: 14040 ug/kg

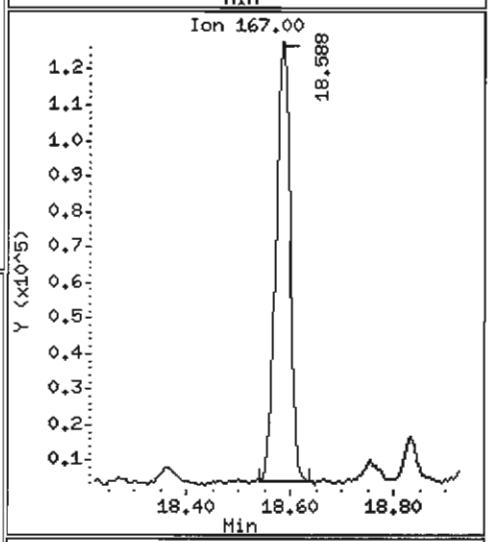


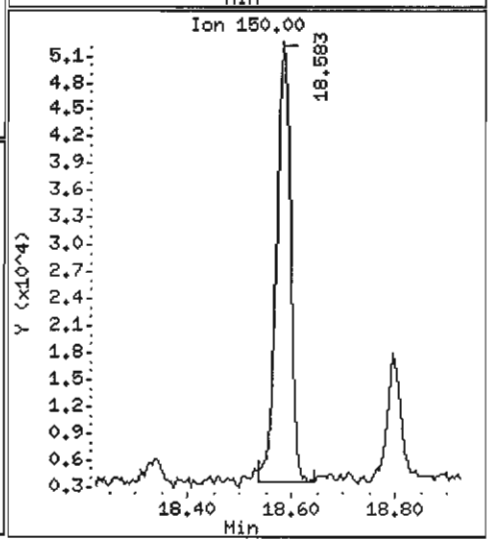












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

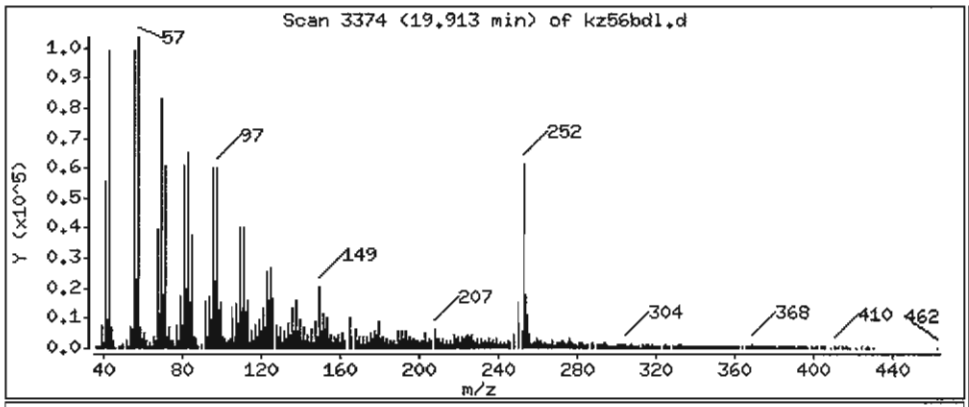
Operator: LJR/VTS

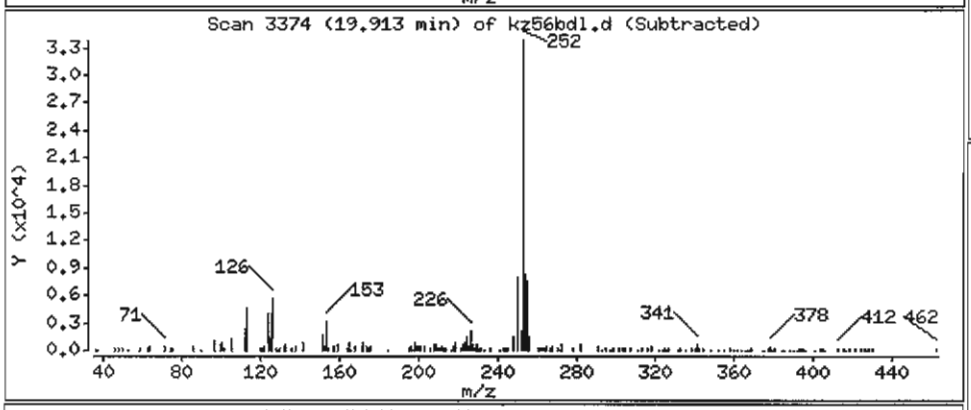
Column phase: ZB-5

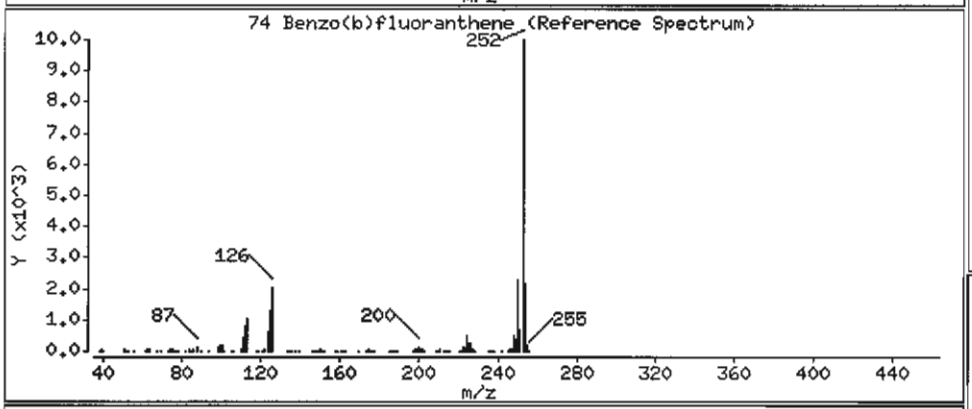
Column diameter: 0.32

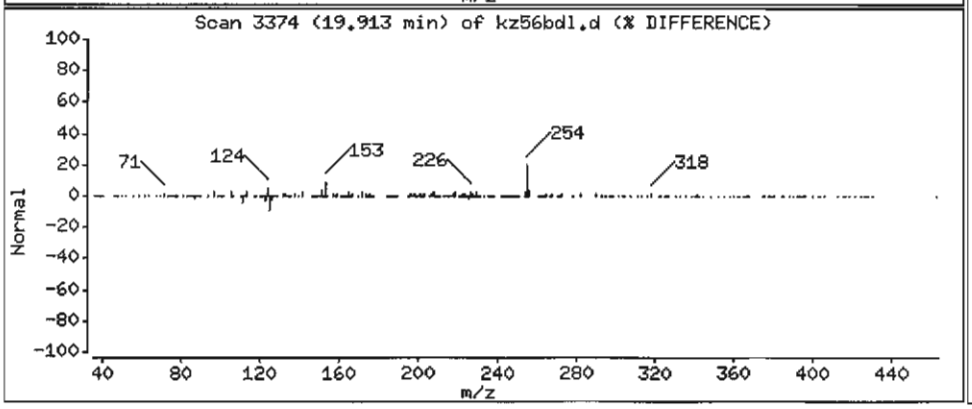
74 Benzo(b)fluoranthene

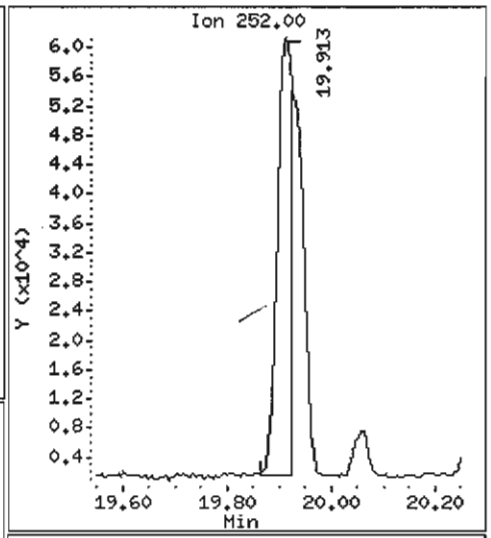
Concentration: 1476 ug/kg

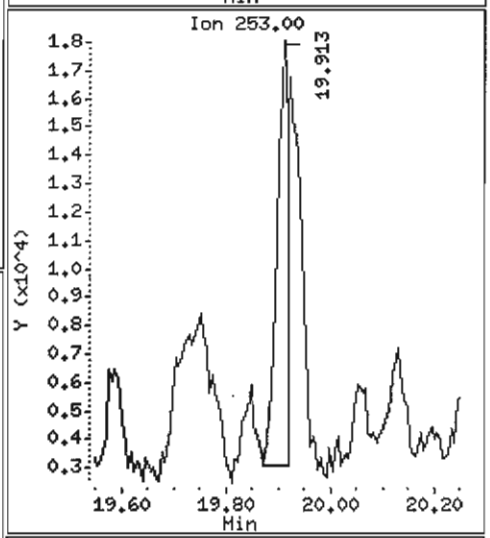


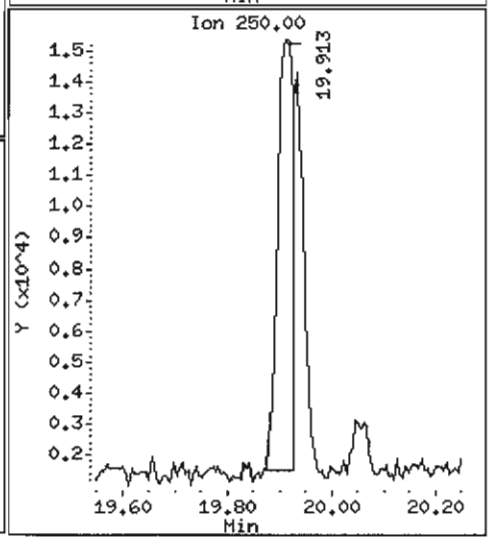












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

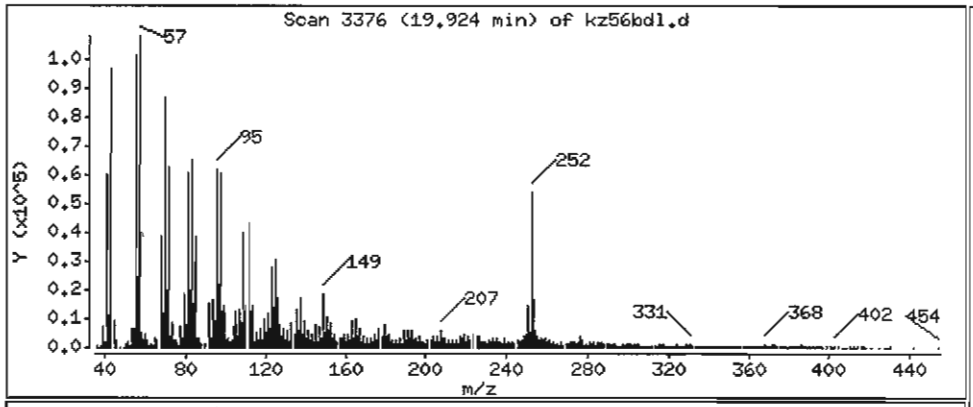
Operator: LJR/VTS

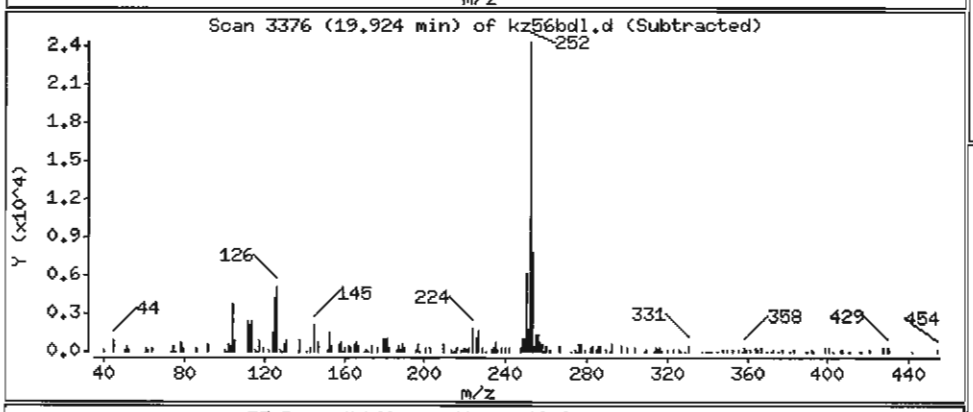
Column phase: ZB-5

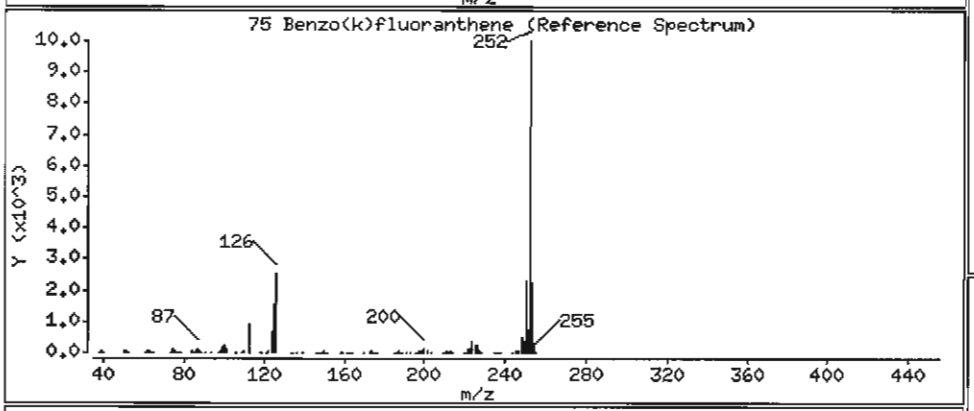
Column diameter: 0.32

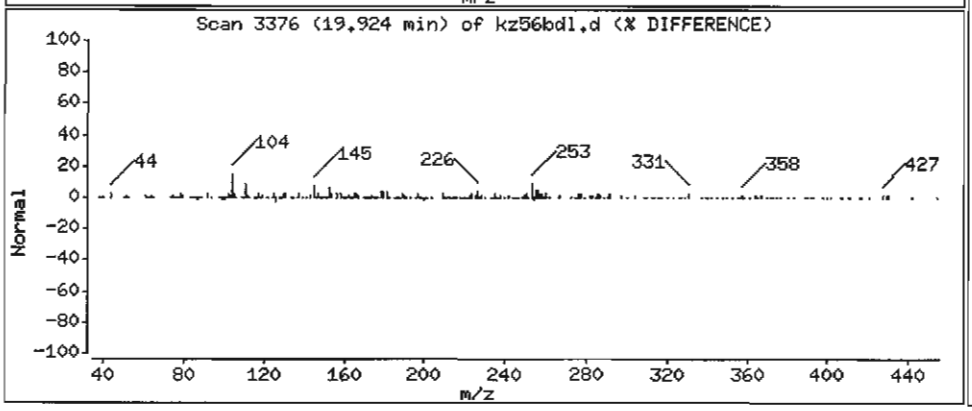
75 Benzo(k)fluoranthene

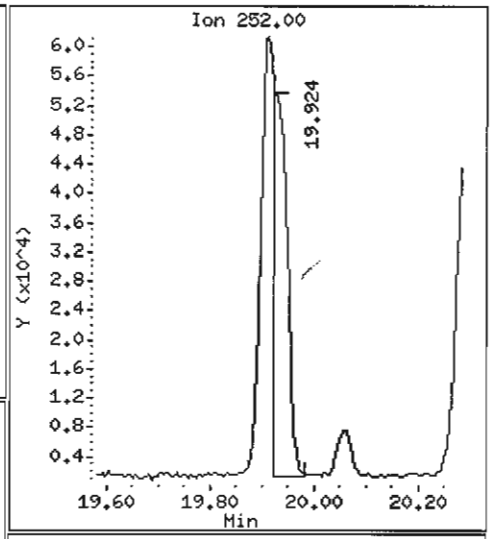
Concentration: 1261 ug/kg

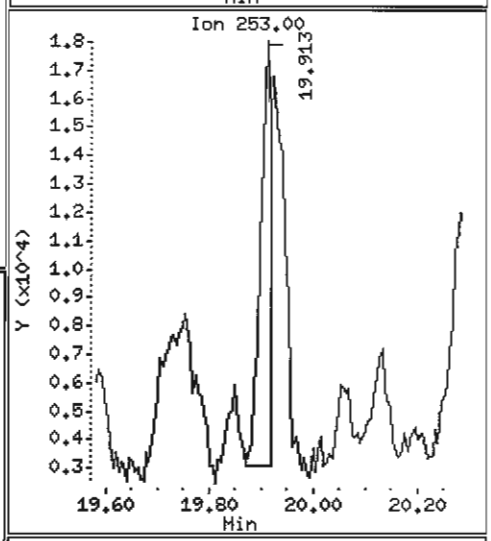


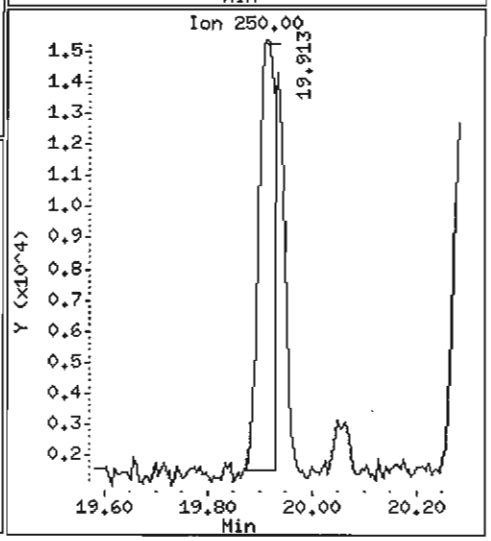












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

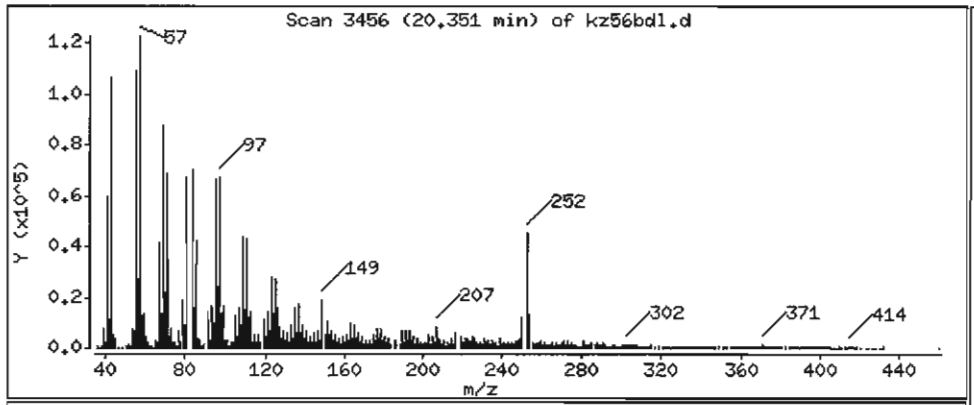
Operator: LJR/VTS

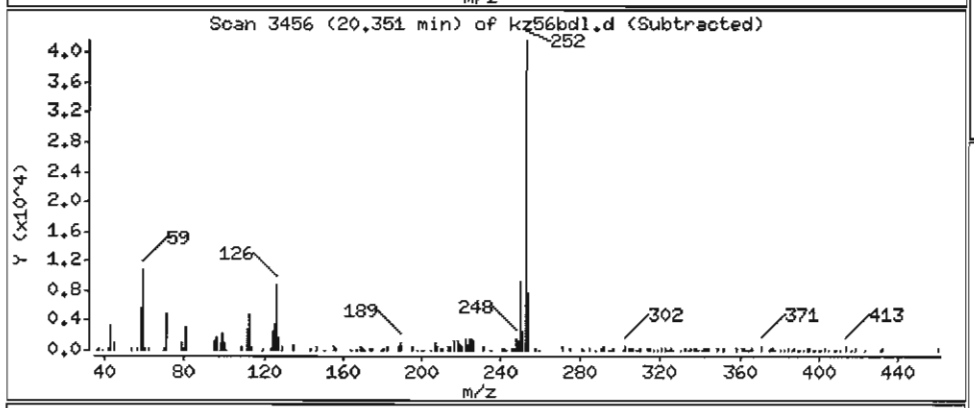
Column phase: ZB-5

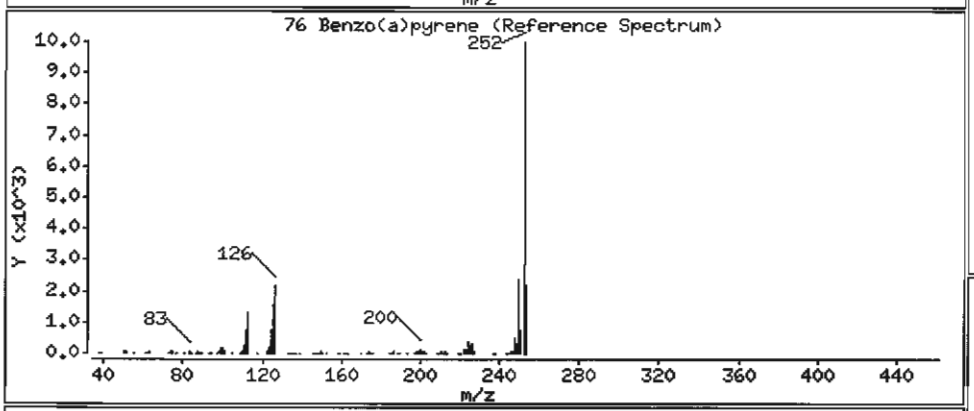
Column diameter: 0.32

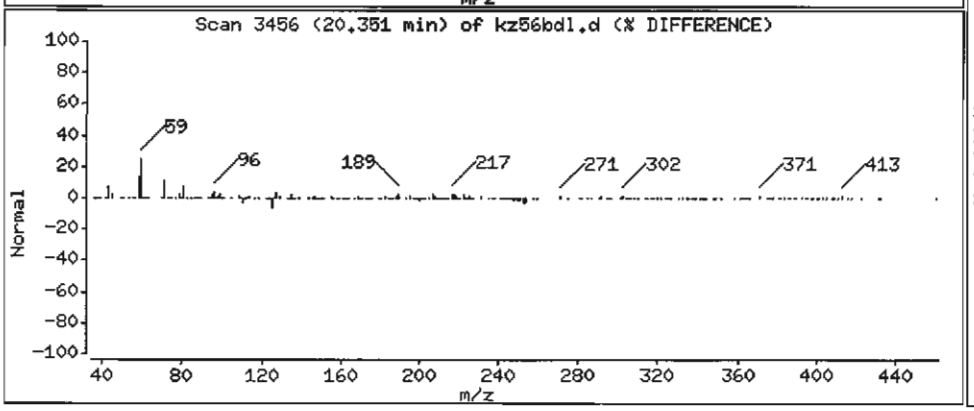
76 Benzo(a)pyrene

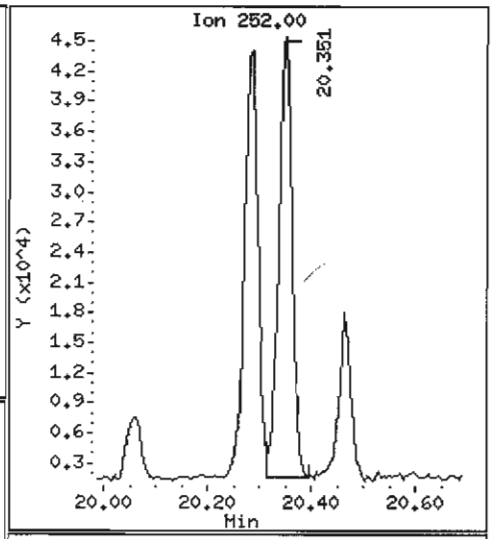
Concentration: 1027 ug/kg

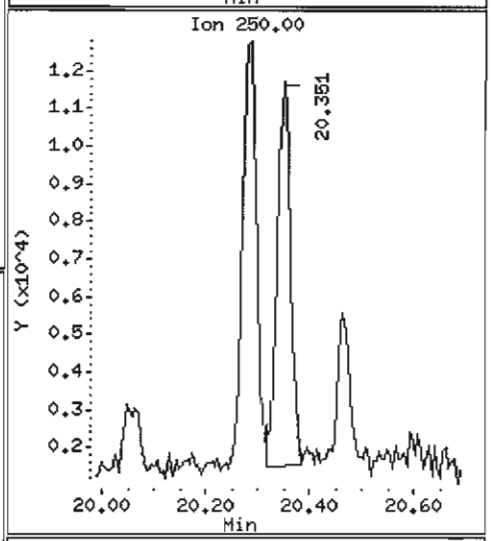


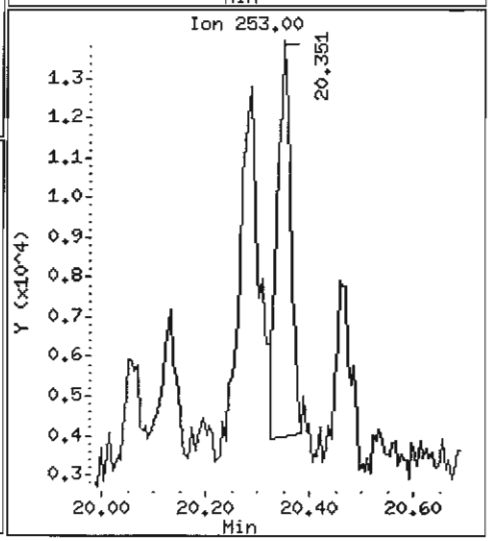












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

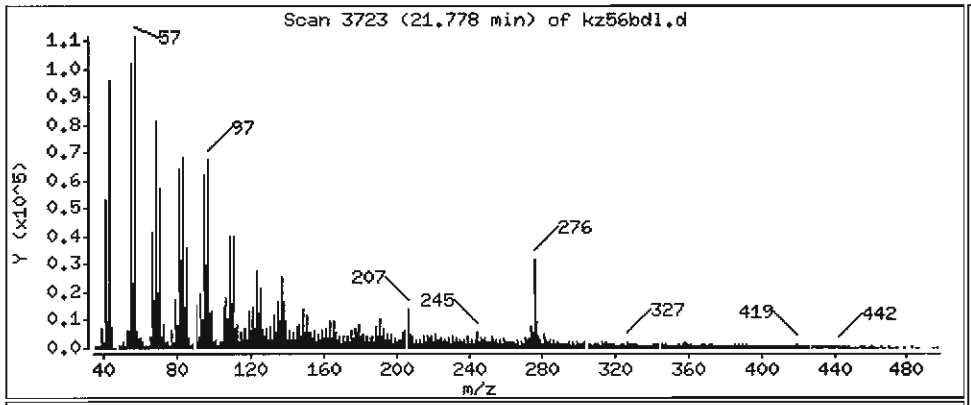
Operator: LJR/VTS

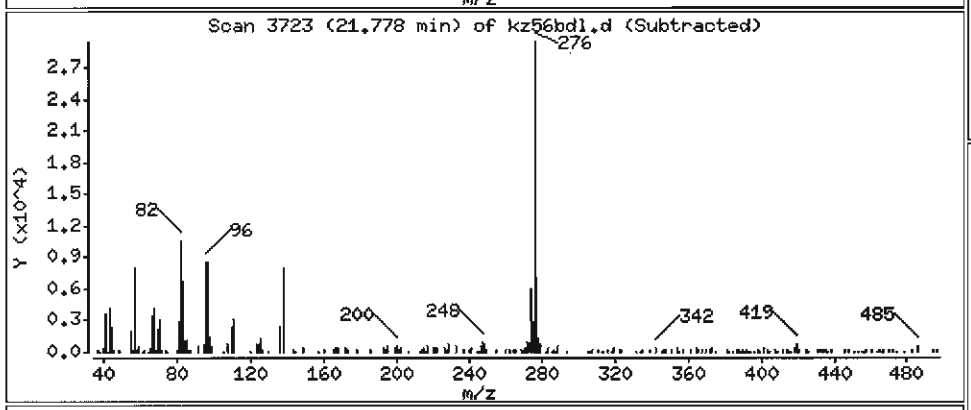
Column phase: ZB-5

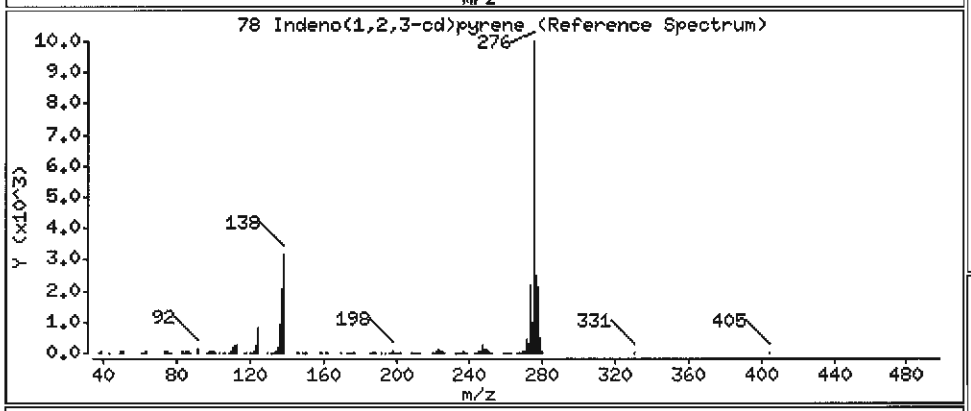
Column diameter: 0.32

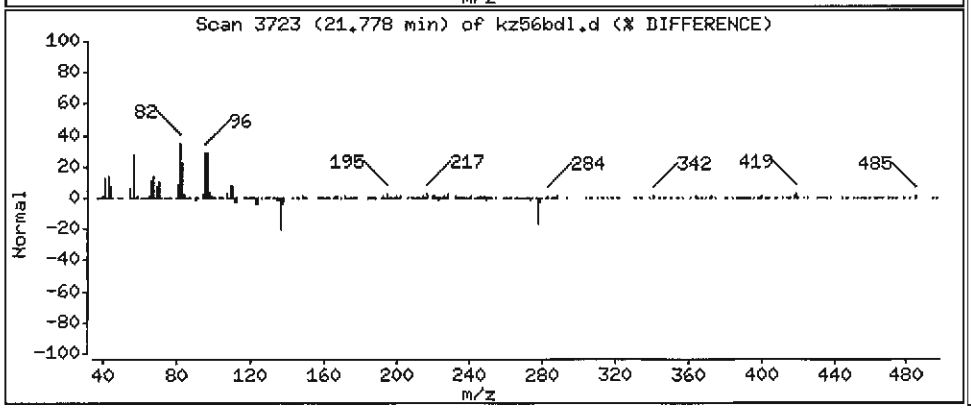
78 Indeno(1,2,3-cd)pyrene

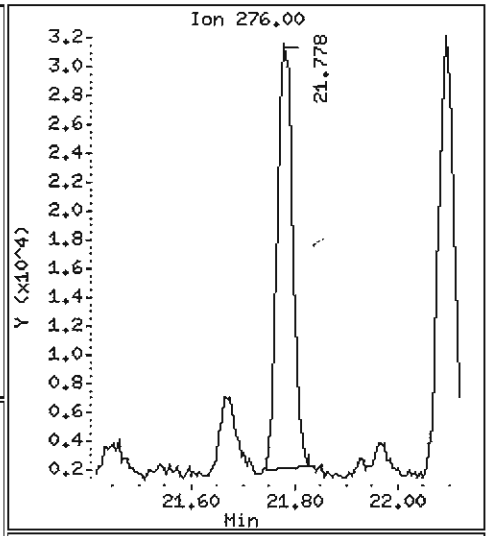
Concentration: 681.5 ug/kg

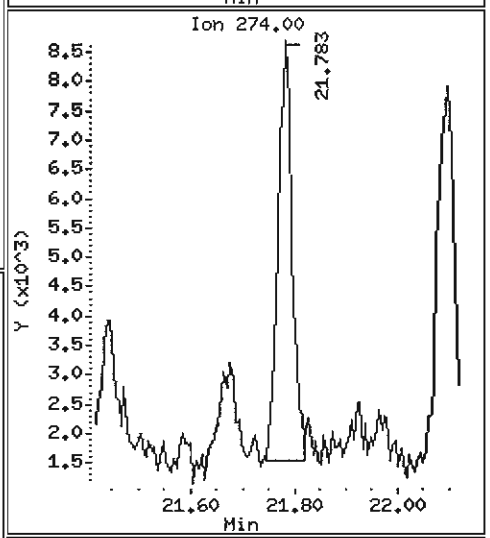


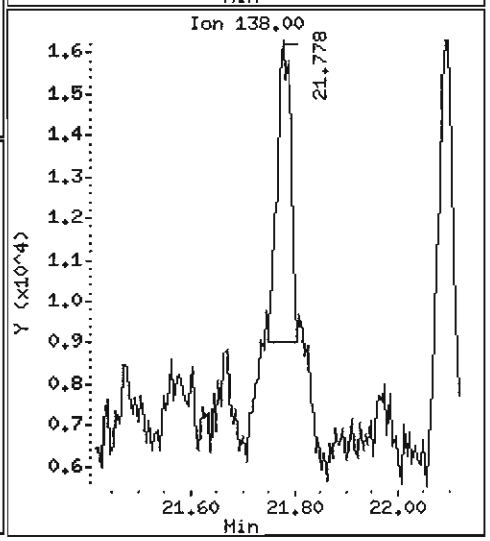












Data File: /chem1/nt6.i/20070529.b/kz56bdl.d

Date : 29-MAY-2007 09:53

Client ID: Y3-RC01-S

Instrument: nt6.i

Sample Info: KZ56B,10

Volume Injected (uL): 1.0

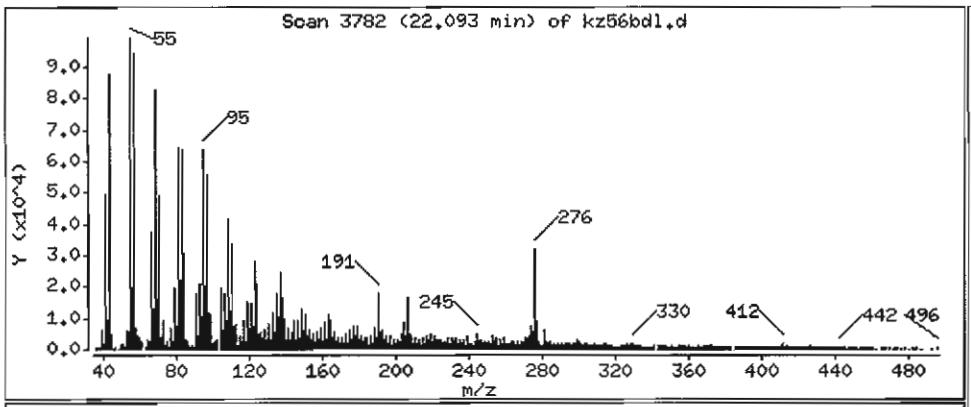
Operator: LJR/VTS

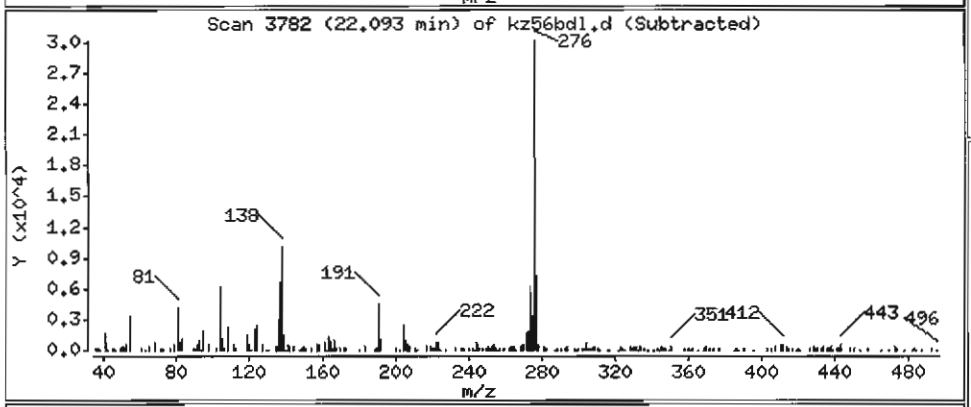
Column phase: ZB-5

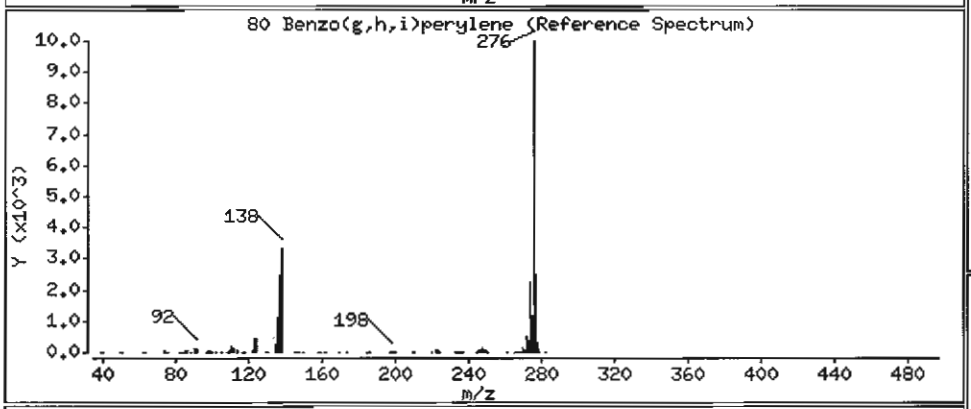
Column diameter: 0.32

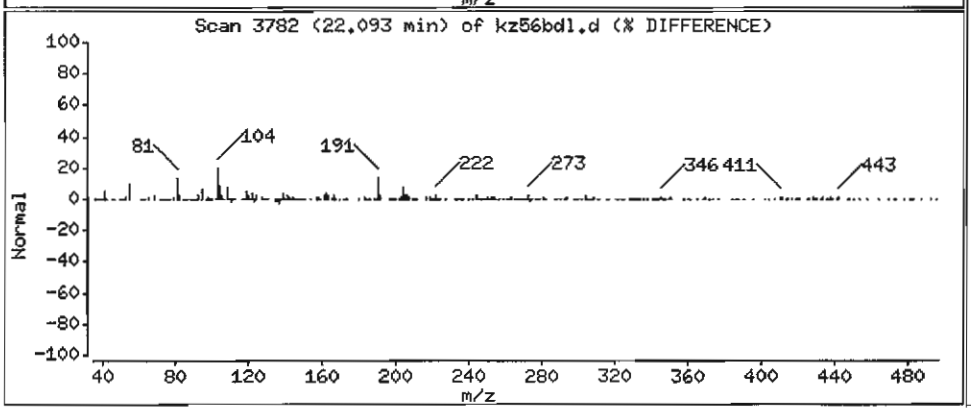
80 Benzo(g,h,i)perylene

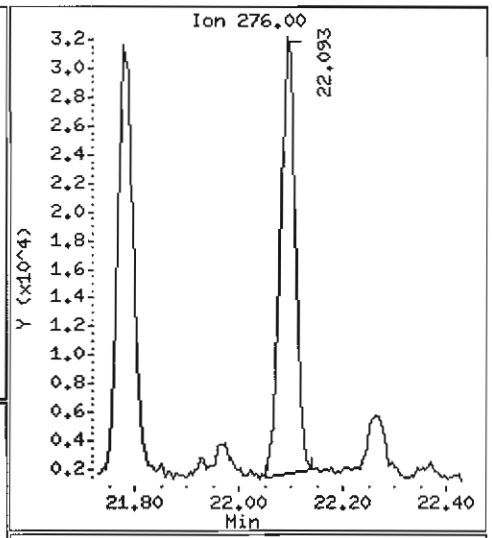
Concentration: 749.2 ug/kg

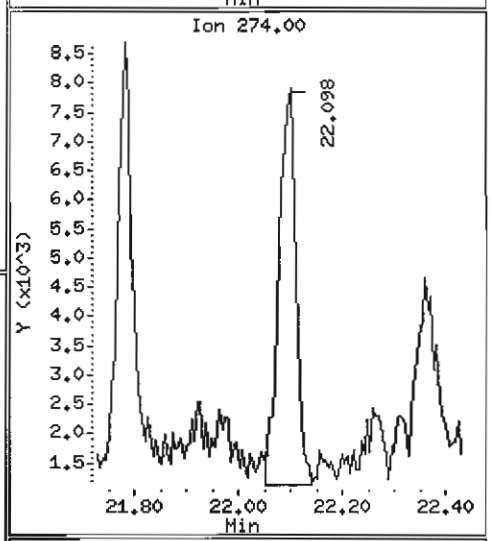


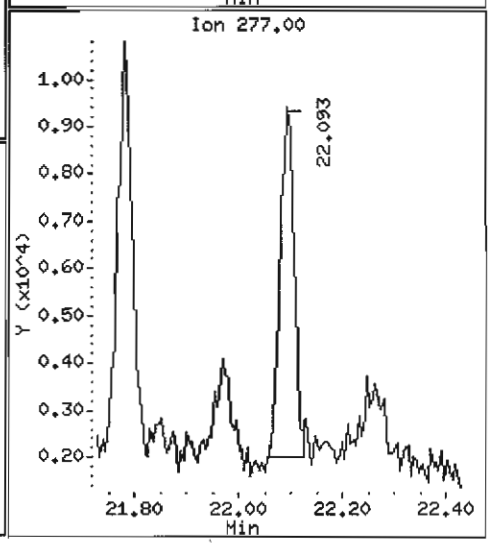












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC13-S
SAMPLE

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 19:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 23.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 58.8%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	130
91-57-6	2-Methylnaphthalene	120	64 J
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	130
132-64-9	Dibenzofuran	120	120 J
86-73-7	Fluorene	120	180
85-01-8	Phenanthrene	120	2,800
120-12-7	Anthracene	120	460
206-44-0	Fluoranthene	120	5,800 E
129-00-0	Pyrene	120	5,200 E
56-55-3	Benzo(a)anthracene	120	2,400
117-81-7	bis(2-Ethylhexyl)phthalate	120	7,300 E
218-01-9	Chrysene	120	3,500
205-99-2	Benzo(b)fluoranthene	120	3,400
207-08-9	Benzo(k)fluoranthene	120	4,400
50-32-8	Benzo(a)pyrene	120	2,700
193-39-5	Indeno(1,2,3-cd)pyrene	120	1,200
53-70-3	Dibenz(a,h)anthracene	120	240
191-24-2	Benzo(g,h,i)perylene	120	1,100

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.1%	2-Fluorobiphenyl	72.2%
d14-p-Terphenyl	71.3%	d4-1,2-Dichlorobenzene	66.2%
d5-Phenol	68.6%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	65.9%	d4-2-Chlorophenol	68.5%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56c.d
Lab Smp Id: KZ56C
Client Smp ID: Y3-RC13-S
Inj Date : 26-MAY-2007 19:53
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56C,3
Misc Info : 07-9549
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 10
Dil Factor: 3.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	58.10000	Weight of sample extracted (g)
M	58.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.005	4.981	(0.726)	143597	7.60396	953.0
$ 2 Phenol-d5	99	6.528	6.514	(0.947)	190133	8.58086	1075
3 Phenol	94	6.549	6.536	(0.950)	17268	0.70990LOL	88.97
$ 5 2-Chlorophenol-d4	132	6.608	6.595	(0.959)	131102	8.55703	1072
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.891	6.883	(1.000)	207712	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.180	7.177	(1.042)	51724	5.52092	691.9
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	7.137	7.188	(1.036)	14814	1.22226	153.2(M)
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.805	7.807	(0.876)	107768	6.00839	753.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.665	8.763	(0.973)	12251	1.18890LDL	149.0(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.905	8.902	(1.000)	753784	20.0000	
	28 Naphthalene	128	8.937	8.934	(1.004)	47071	1.05426	132.1
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	10.054	10.046	(1.129)	11575	0.51000LDL	63.92(M)
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.706	10.703	(0.912)	148620	6.01814	754.2
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	11.459	11.456	(0.976)	14733	0.62641LDL	78.51
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.742	11.734	(1.000)	365908	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.790	11.787	(1.004)	23853	1.03304	129.5
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	12.052	12.049	(1.026)	29317	0.94188LDL	118.0
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.607	12.599	(1.074)	36033	1.46307	184.1(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.029	13.021	(1.110)	30697	8.24027	1033
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.943	13.924	(0.989)	3546	1.00753LDL	126.3
*	59 Phenanthrene-d10	188	14.098	14.084	(1.000)	454227	20.0000	
	60 Phenanthrene	178	14.135	14.122	(1.003)	675180	22.2732	2791
	61 Anthracene	178	14.205	14.196	(1.008)	114105	3.64301	456.6
	62 Carbazole	167	14.509	14.496	(1.029)	144191	5.34985	670.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.268	15.249	(1.083)	34863	1.04884	131.4(M)
64 Fluoranthene	202	16.080	16.045	(1.141)	1331596	46.2990 E	5803
65 Pyrene	202	16.422	16.392	(0.892)	1184422	41.0258 E	5142
$ 66 Terphenyl-d14	244	16.758	16.734	(0.911)	108663	5.94359	744.9
67 Butylbenzylphthalate	149	17.661	17.642	(0.960)	34687	2.55536	320.3(M)
68 Benzo(a)anthracene	228	18.377	18.342	(0.999)	497784	19.1524	2400
* 69 Chrysene-d12	240	18.404	18.369	(1.000)	347940	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.441	18.406	(1.002)	741610	28.2065	3535
72 bis(2-Ethylhexyl)phthalate	149	18.692	18.657	(0.953)	1044316	58.0806 E	7279
* 134 Di-n-octylphthalate-d4	153	19.622	19.587	(1.000)	524962	20.0000	
73 Di-n-octylphthalate	149	19.638	19.592	(1.001)	129700	4.15886	521.2(M)
74 Benzo(b)fluoranthene	252	20.049	19.987	(0.975)	513492	26.7271	3350(M)
75 Benzo(k)fluoranthene	252	20.049	20.019	(0.975)	650055	35.2214	4414(M)
76 Benzo(a)pyrene	252	20.482	20.425	(0.996)	415255	21.5940	2706
* 77 Perylene-d12	264	20.562	20.505	(1.000)	296315	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.924	21.852	(1.066)	211977	9.32374	1169
79 Dibenzo(a,h)anthracene	278	21.935	21.884	(1.067)	35540	1.88739	236.5(M)
80 Benzo(g,h,i)perylene	276	22.250	22.178	(1.082)	184532	8.86013	1110(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.458	6.456	(0.937)	623225	~~20.060~~ Y	~~2514~~
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56c.d
Lab Smp Id: KZ56C
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9549

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC13-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	207712	-4.27
27 Naphthalene-d8	799420	399710	1598840	753784	-5.71
42 Acenaphthene-d10	390056	195028	780112	365908	-6.19
59 Phenanthrene-d10	573879	286940	1147758	454227	-20.85
69 Chrysene-d12	366829	183414	733658	347940	-5.15
134 Di-n-octylphthala	621709	310854	1243418	524962	-15.56
77 Perylene-d12	428868	214434	857736	296315	-30.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.12
27 Naphthalene-d8	8.90	8.40	9.40	8.91	0.03
42 Acenaphthene-d10	11.73	11.23	12.23	11.74	0.07
59 Phenanthrene-d10	14.08	13.58	14.58	14.10	0.10
69 Chrysene-d12	18.37	17.87	18.87	18.40	0.19
134 Di-n-octylphthala	19.59	19.09	20.09	19.62	0.18
77 Perylene-d12	20.51	20.01	21.01	20.56	0.27

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56C
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9549

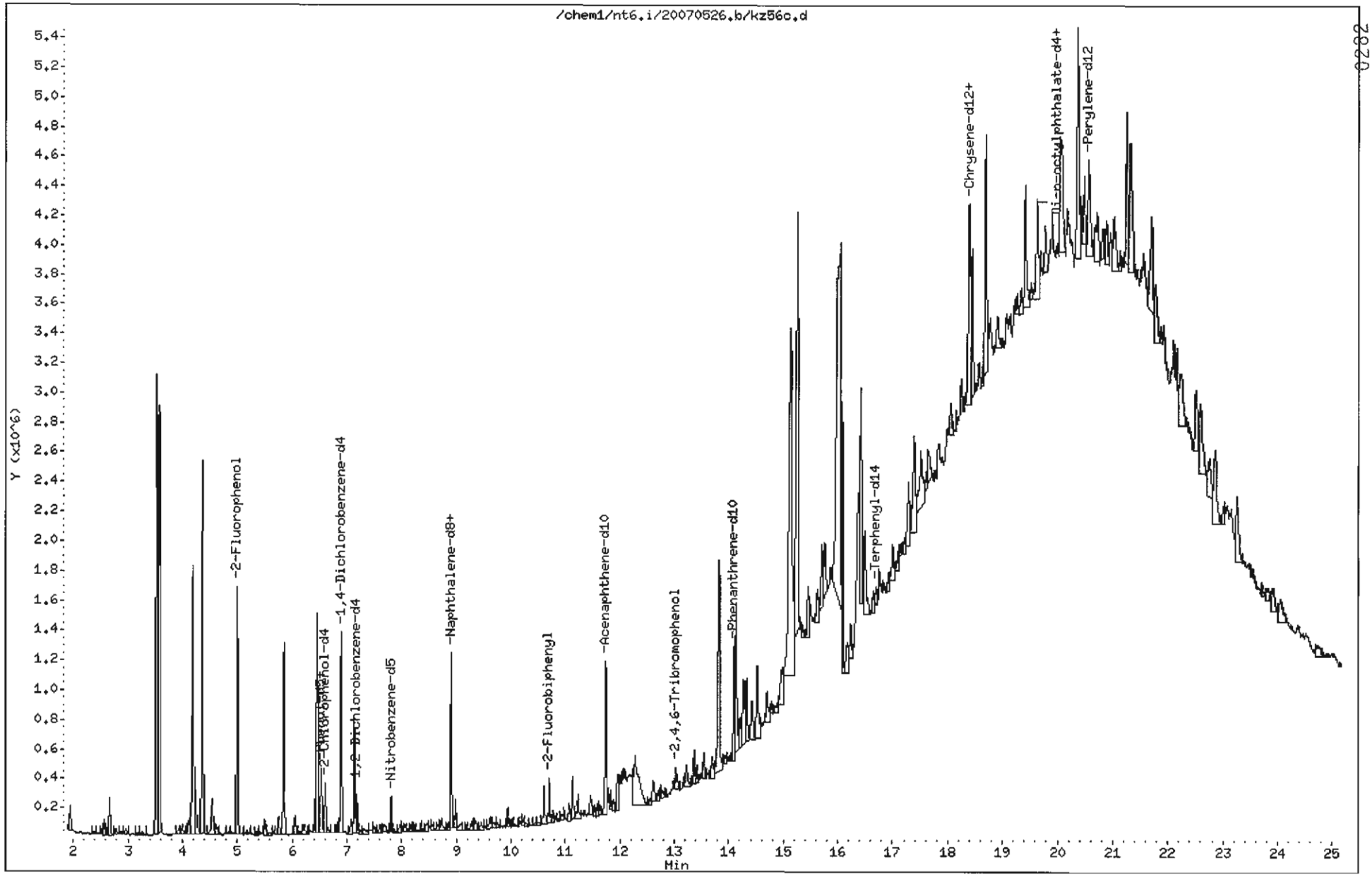
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC13-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1567	953.0	60.83	22-91
$ 2 Phenol-d5	1567	1075	68.65	26-99
$ 5 2-Chlorophenol-d4	1567	1072	68.46	29-96
$ 10 1,2-Dichlorobenzen	1044	691.9	66.25	24-87
$ 18 Nitrobenzene-d5	1044	753.0	72.10	27-101
$ 36 2-Fluorobiphenyl	1044	754.2	72.22	30-100
$ 55 2,4,6-Tribromophen	1567	1033	65.92	20-114
$ 66 Terphenyl-d14	1044	744.9	71.32	12-120

Data File: /chem1/nt6.i/20070526.b/kz56c.d
Date : 26-MAY-2007 19:53
Client ID: Y3-RC13-S
Sample Info: KZ56C,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



0282

Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

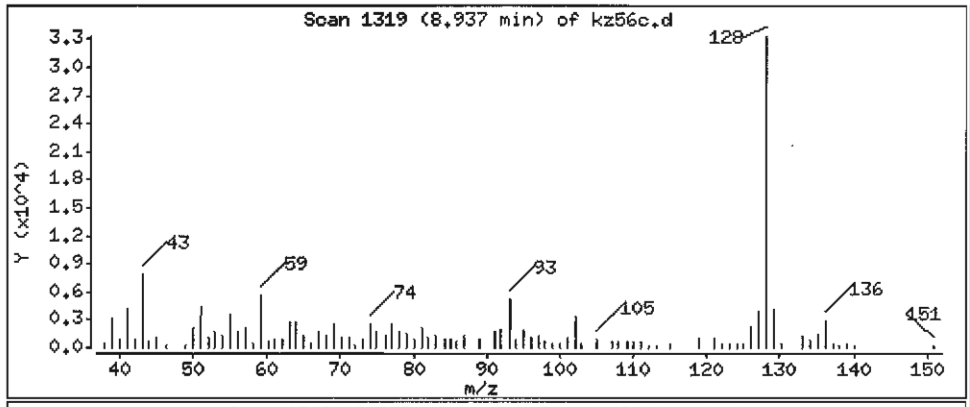
Operator: LJR/VTS

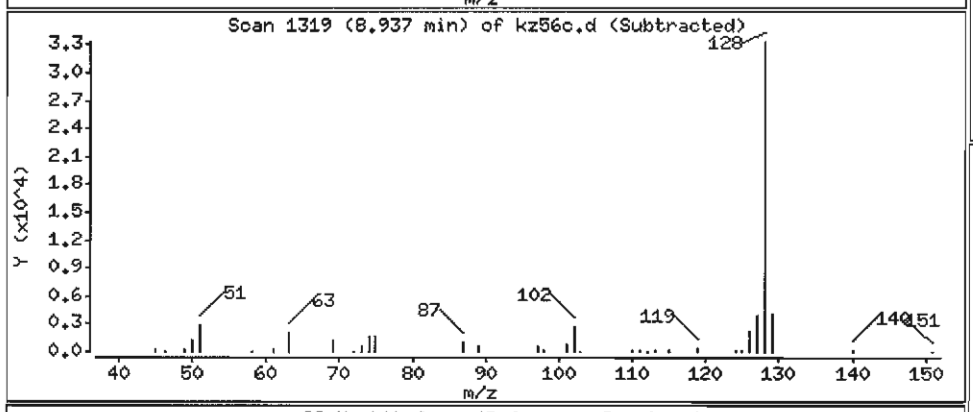
Column phase: ZB-5

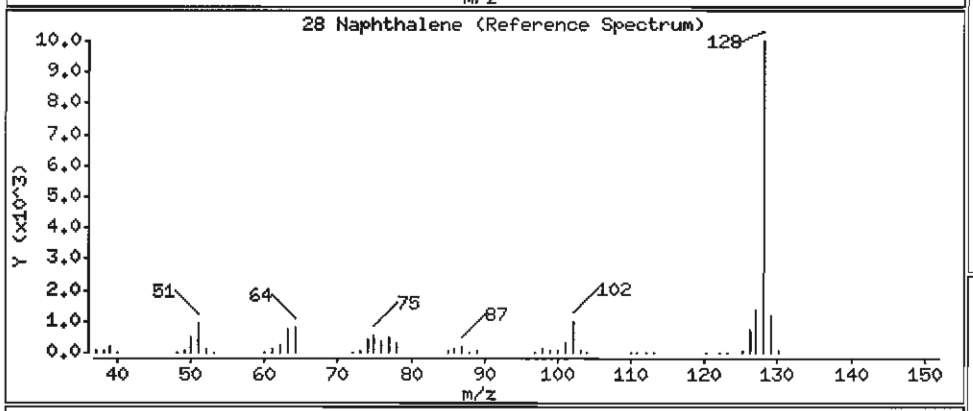
Column diameter: 0.32

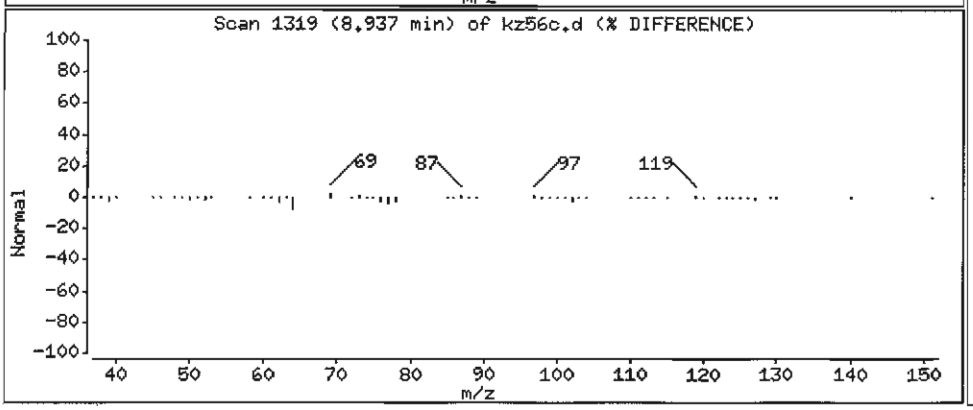
28 Naphthalene

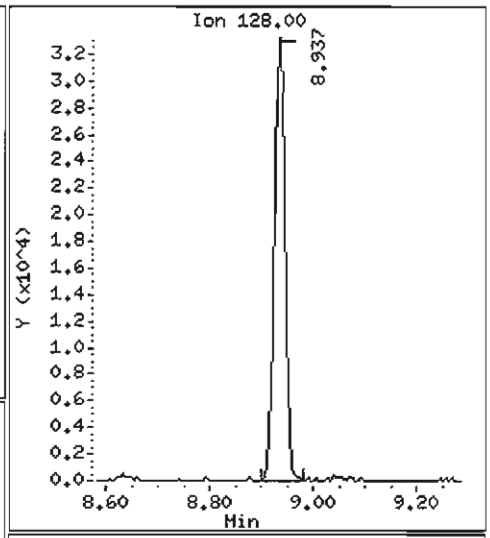
Concentration: 132.1 ug/kg

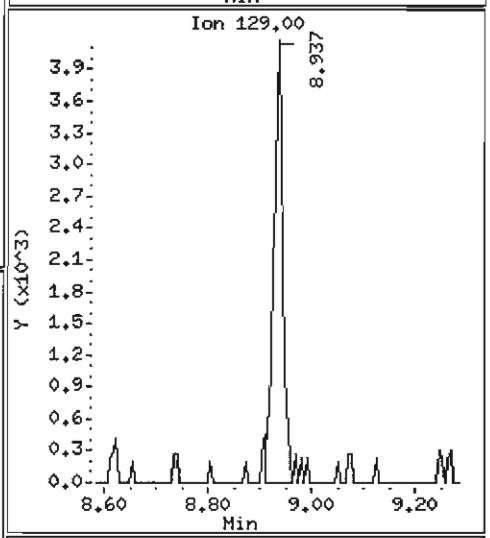


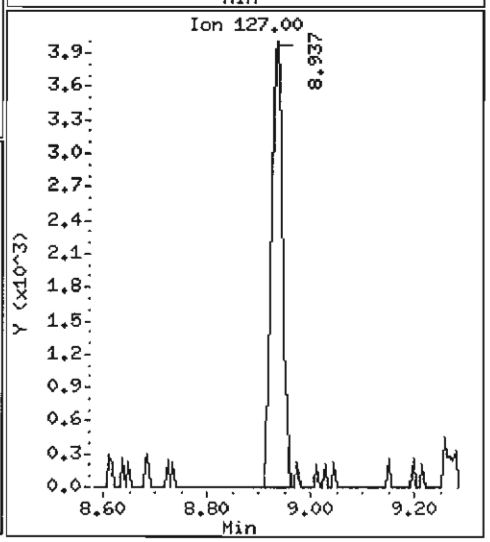












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

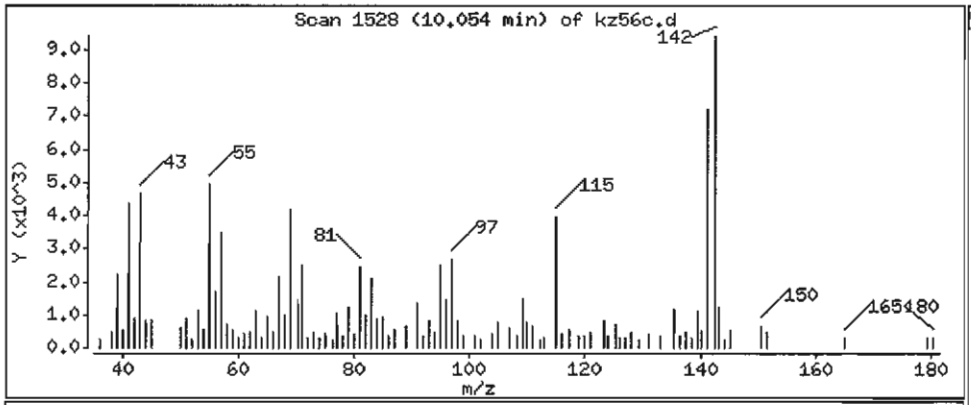
Column phase: ZB-5

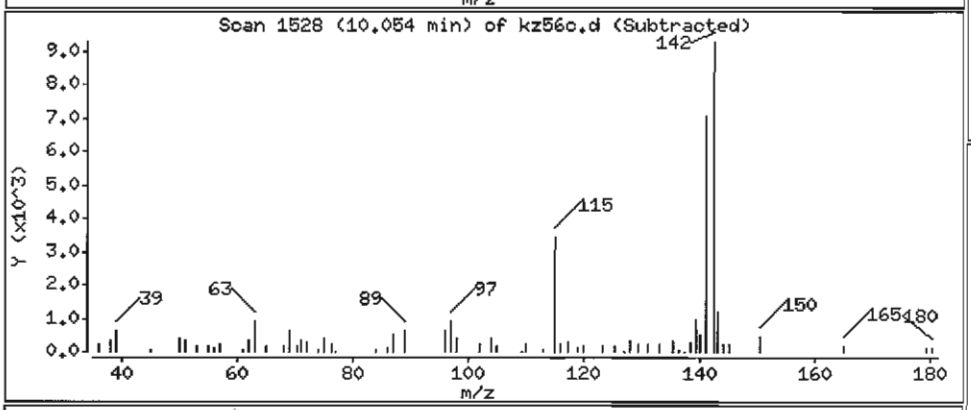
Column diameter: 0.32

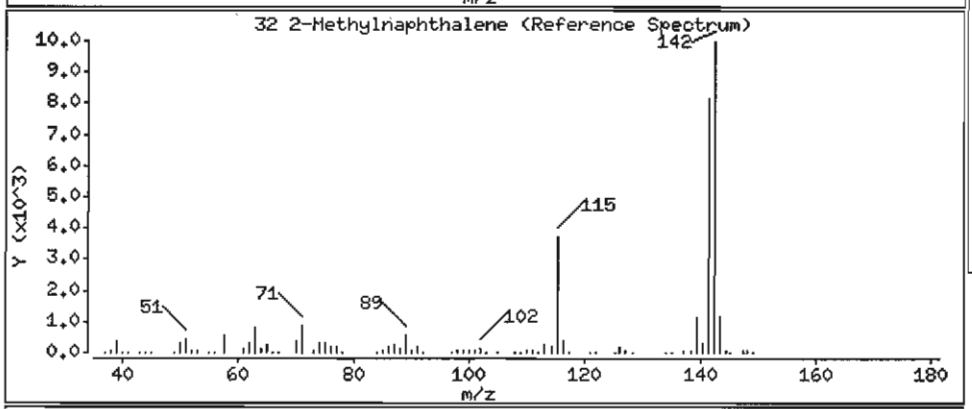
32 2-Methylnaphthalene

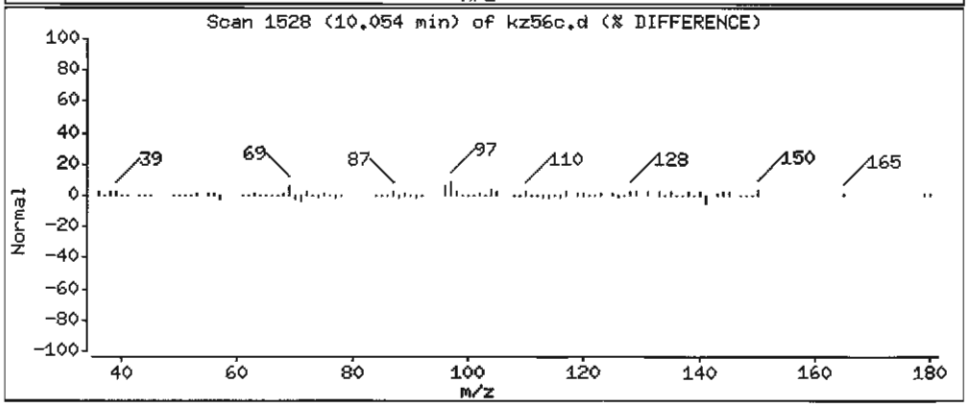
Concentration: 63.92 ug/kg

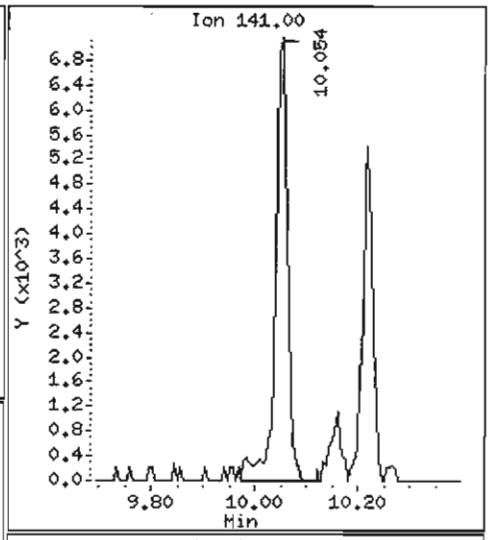
JLR

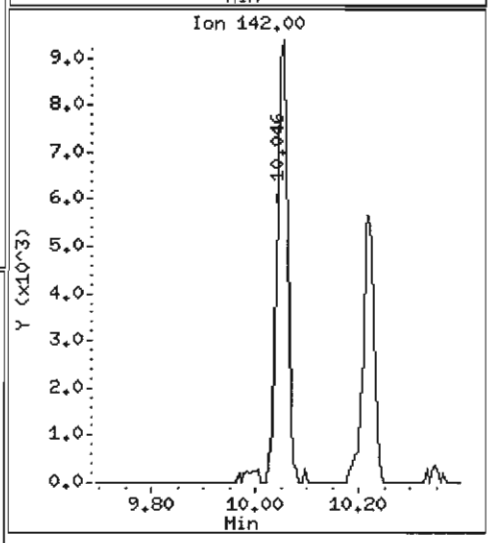












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

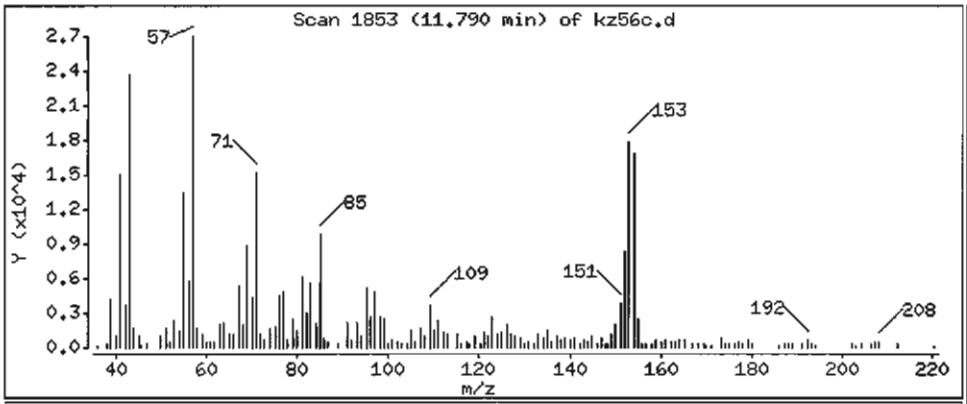
Operator: LJR/VTS

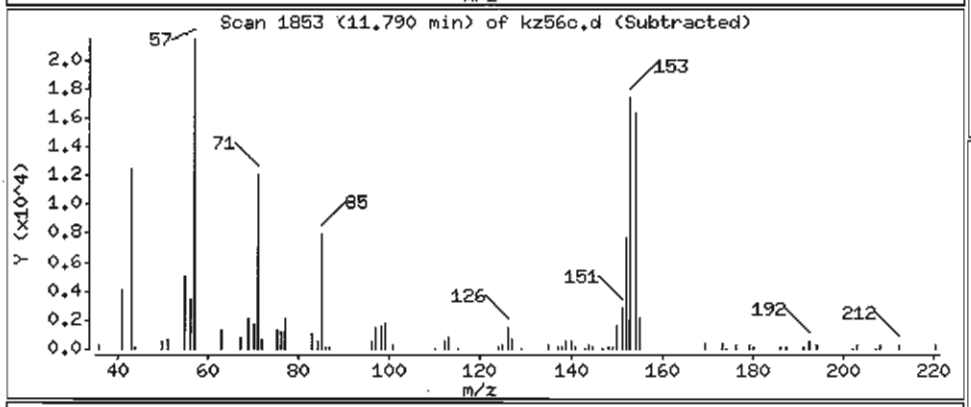
Column phase: ZB-5

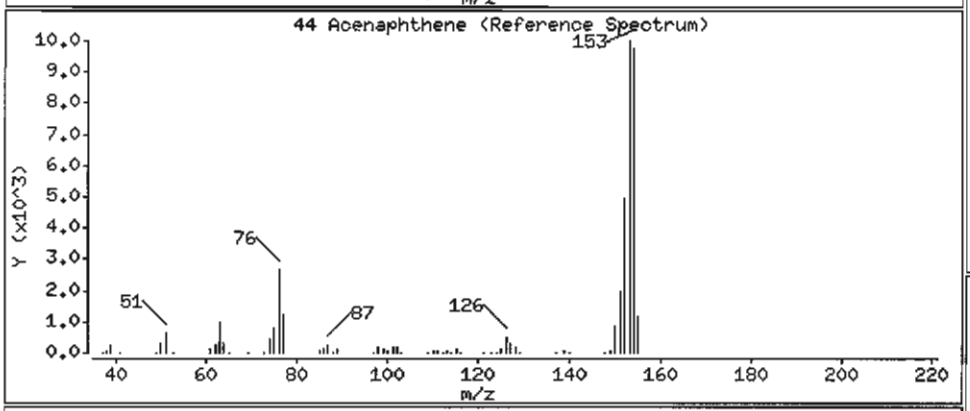
Column diameter: 0.32

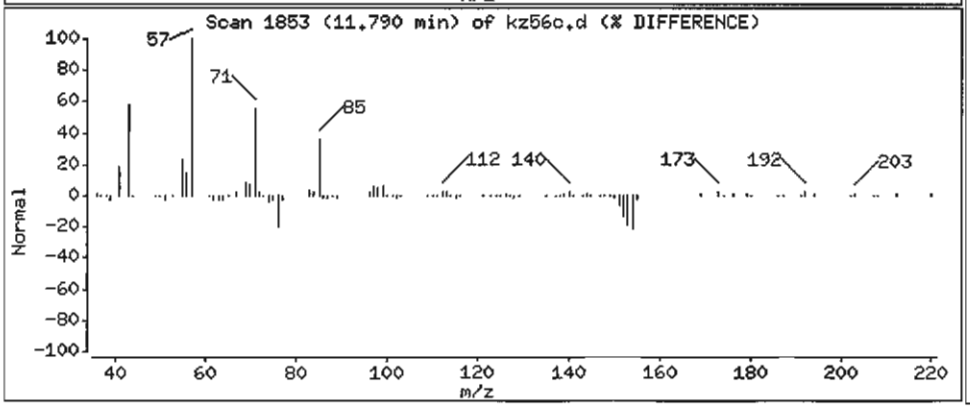
44 Acenaphthene

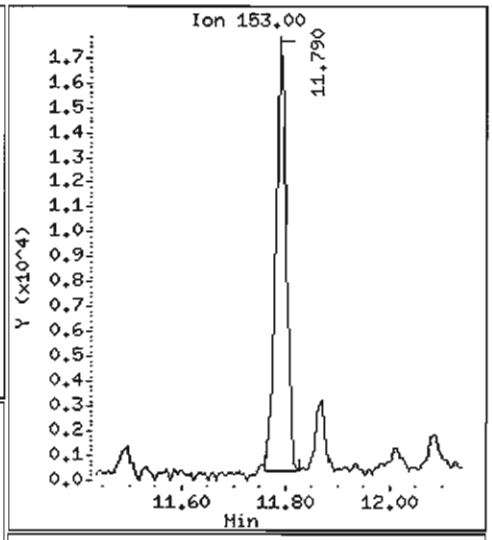
Concentration: 129.5 ug/kg

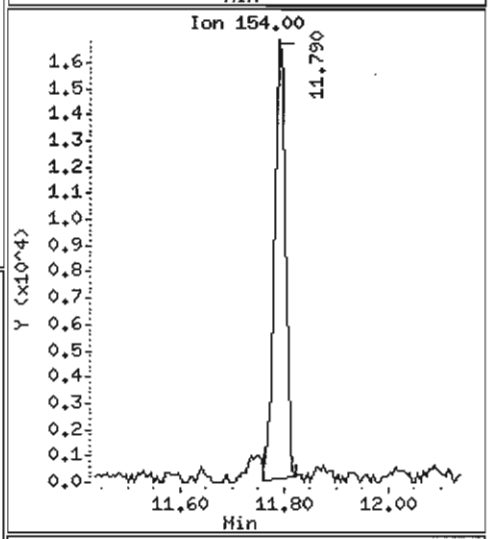


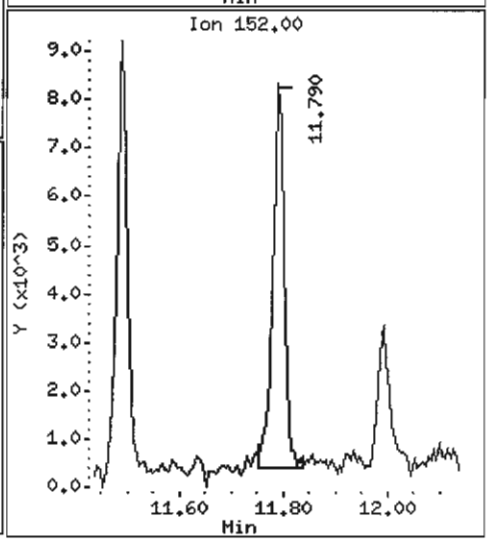












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

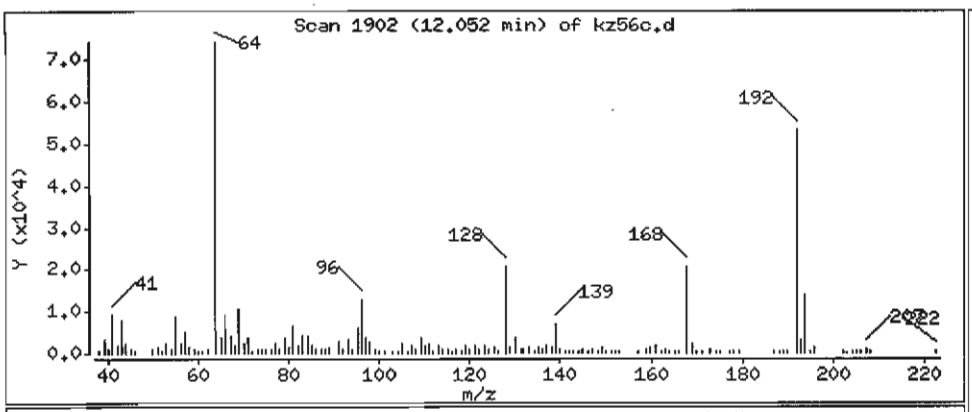
Operator: LJR/VTS

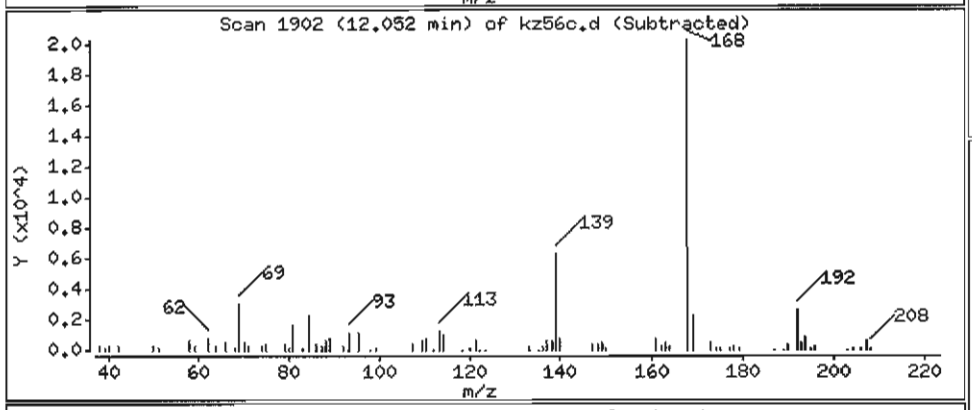
Column phase: ZB-5

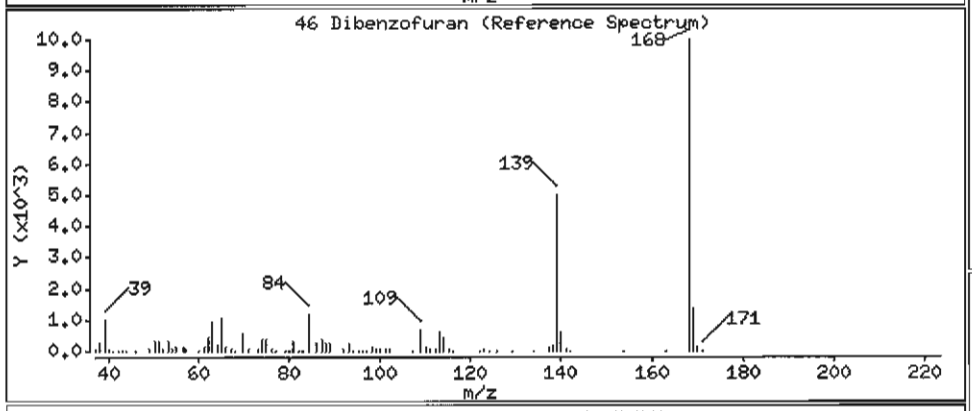
Column diameter: 0.32

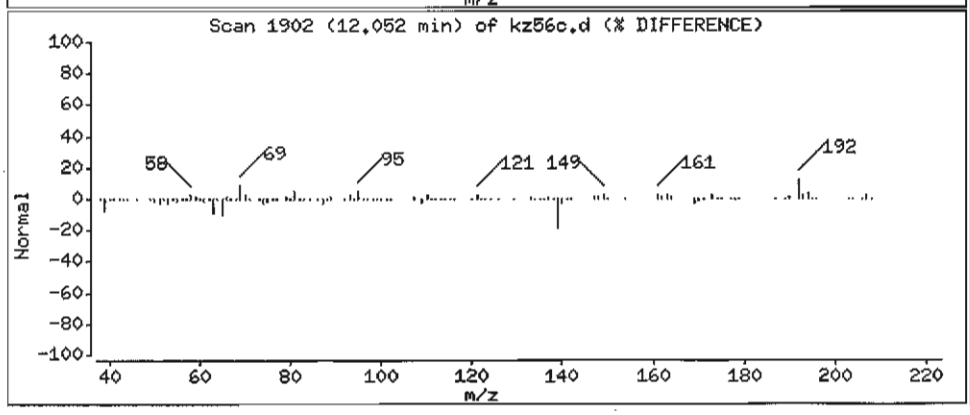
46 Dibenzofuran

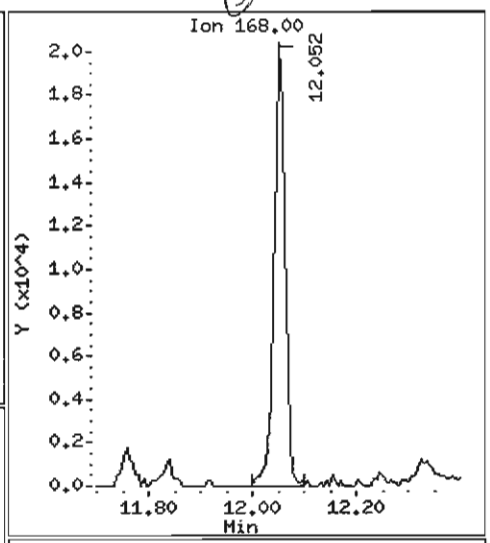
Concentration: 118.0 ug/kg

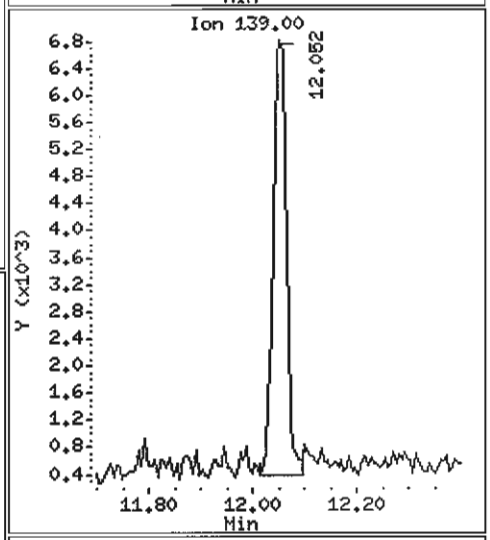


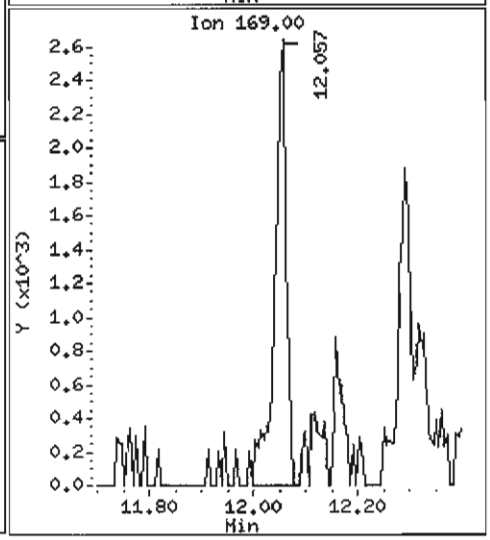












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

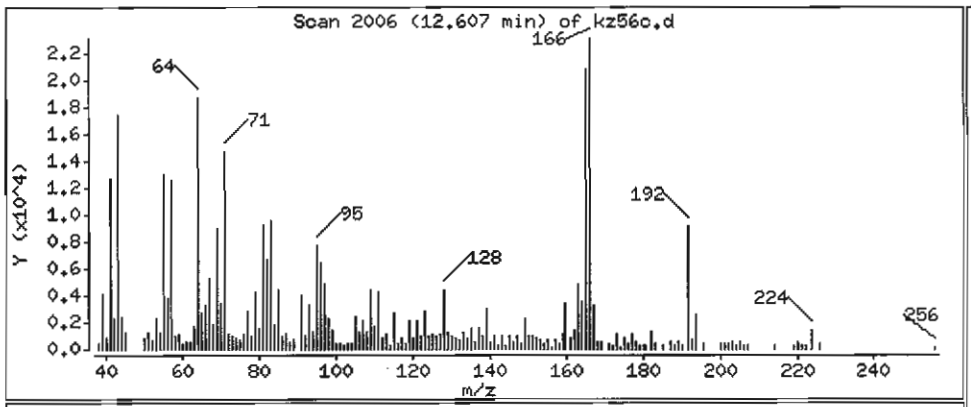
Operator: LJR/VTS

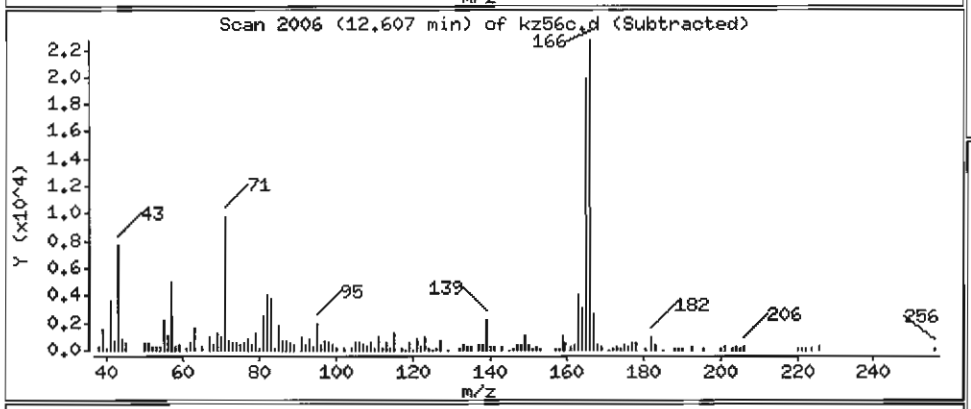
Column phase: ZB-5

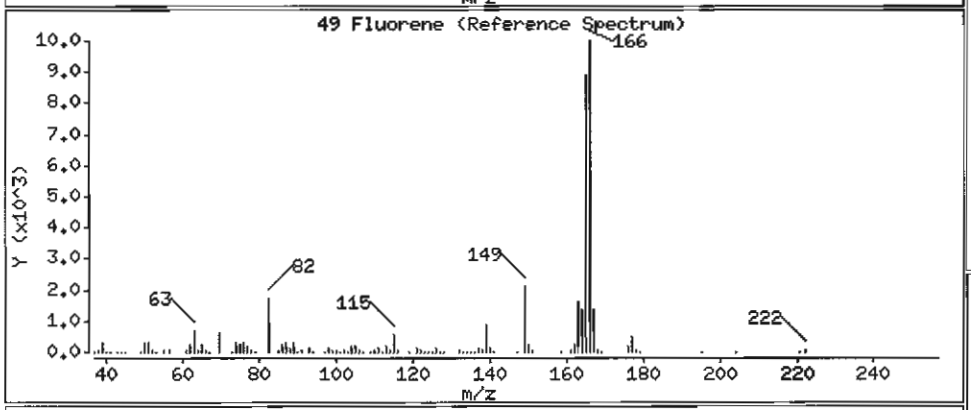
Column diameter: 0.32

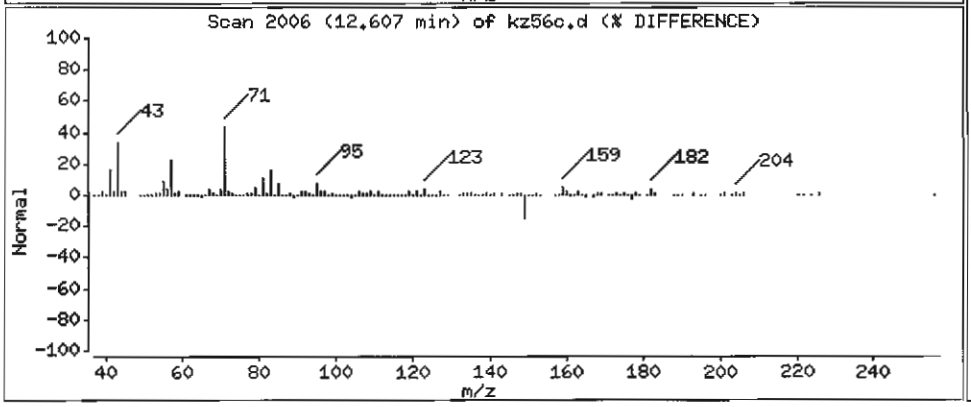
49 Fluorene

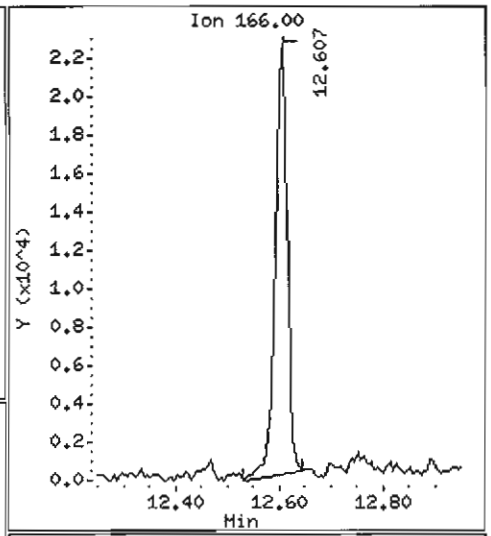
Concentration: 184.1 ug/kg

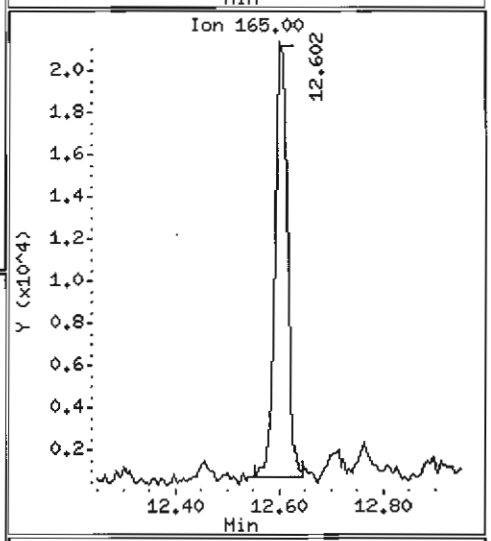


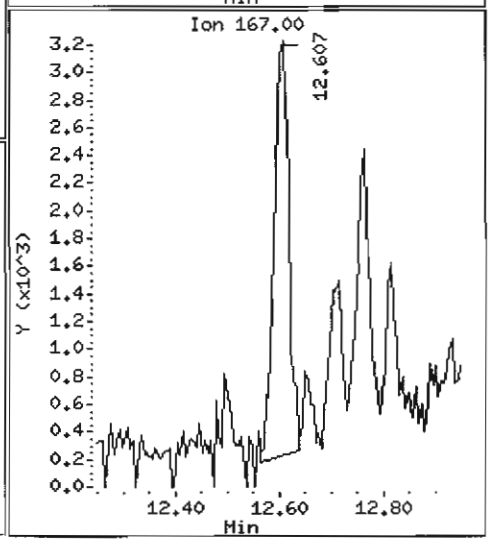












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

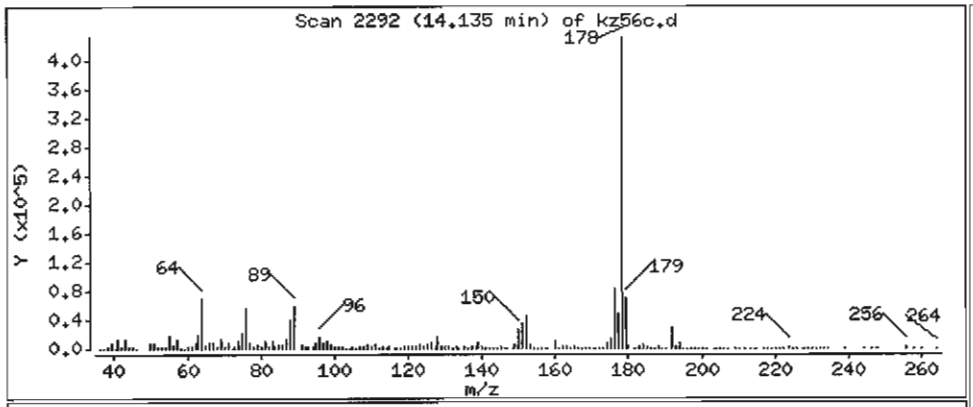
Operator: LJR/VTS

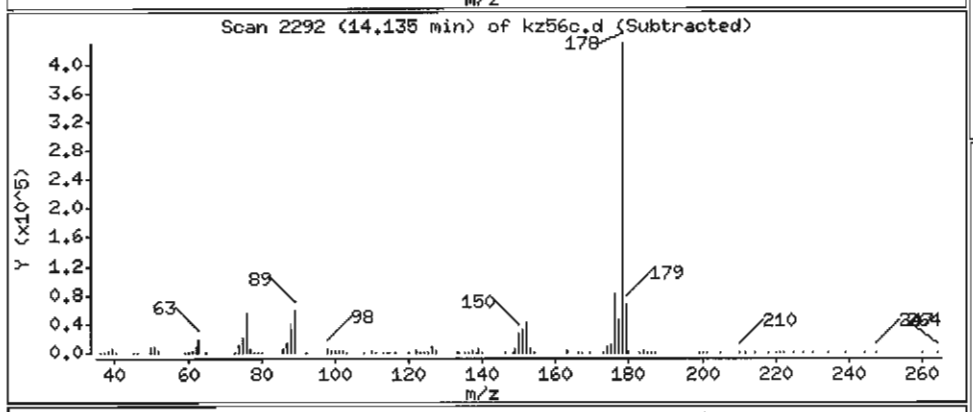
Column phase: ZB-5

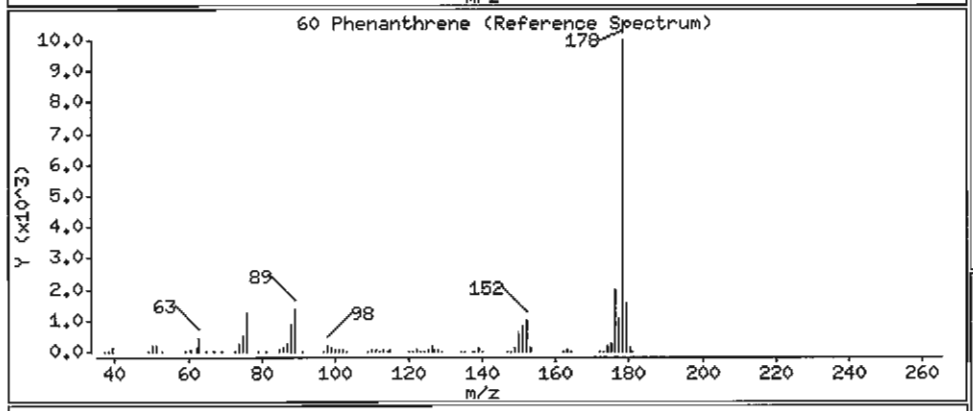
Column diameter: 0.32

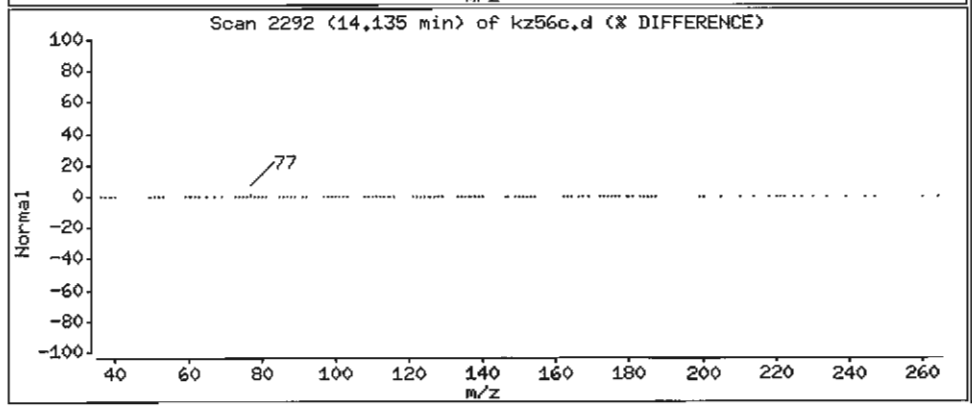
60 Phenanthrene

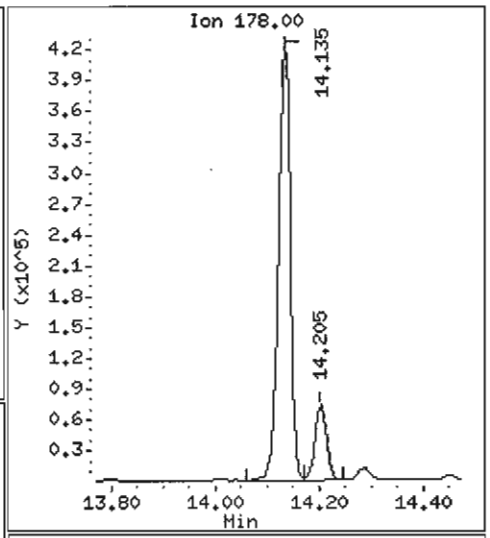
Concentration: 2791 ug/kg

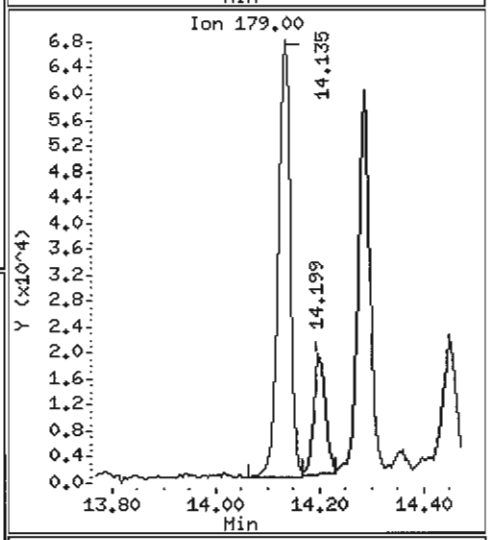


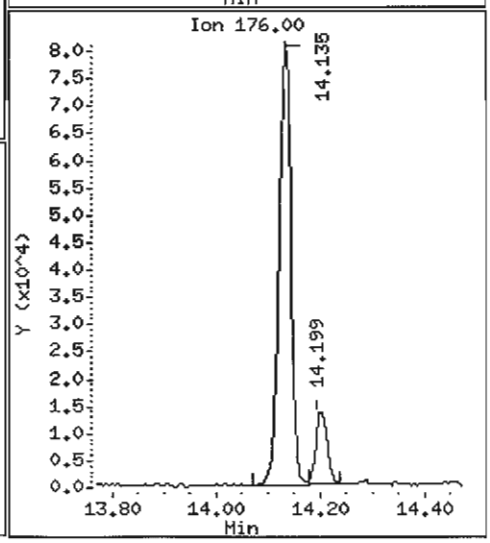












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

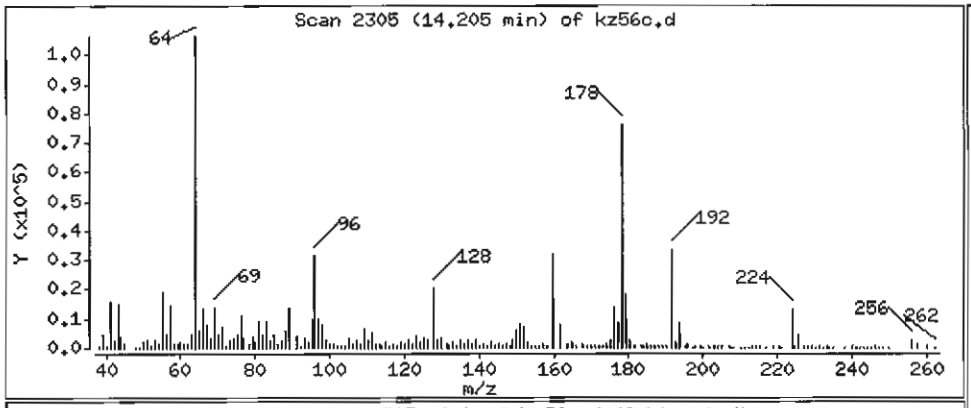
Operator: LJR/VTS

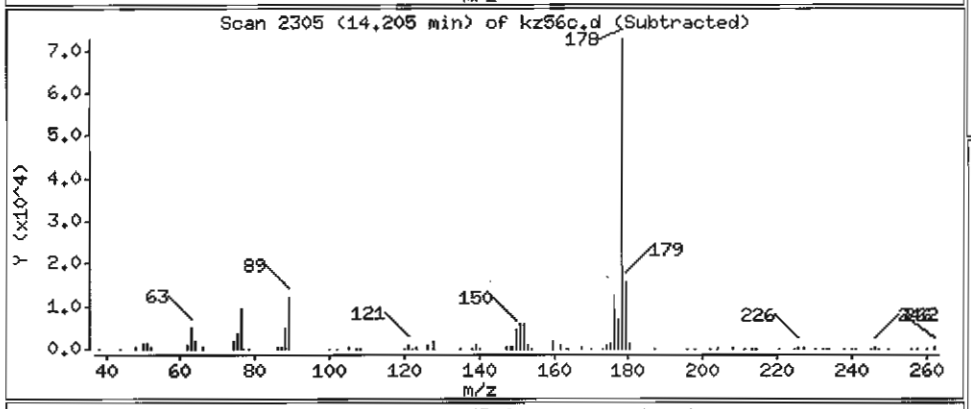
Column phase: ZB-5

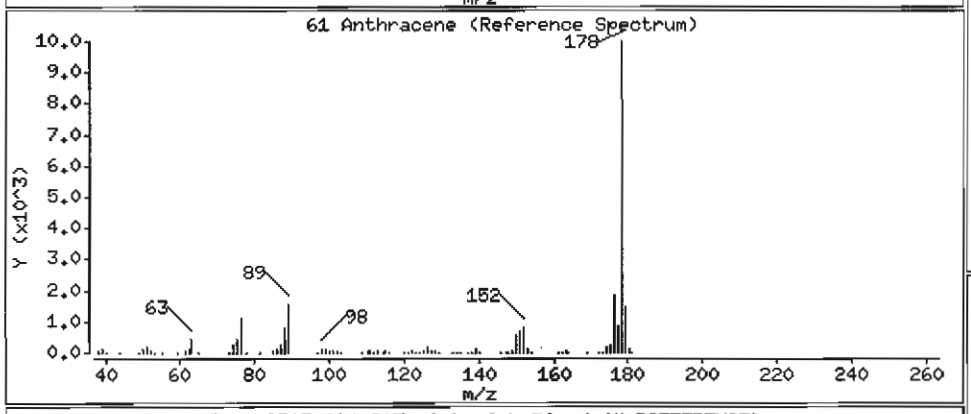
Column diameter: 0.32

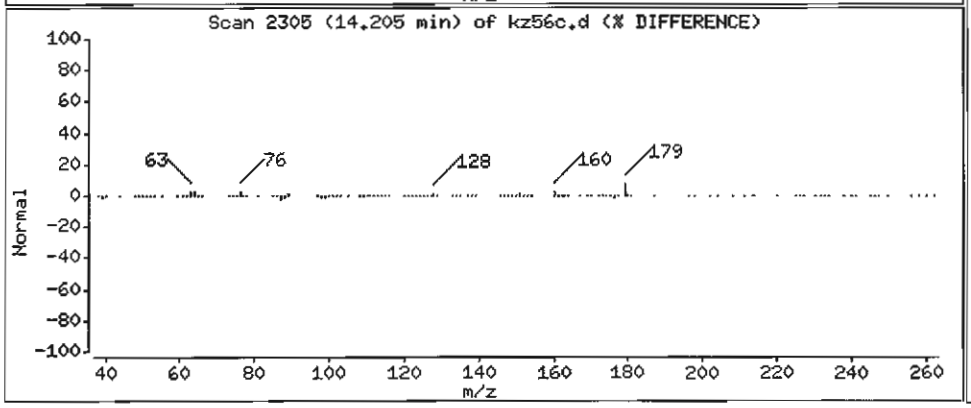
61 Anthracene

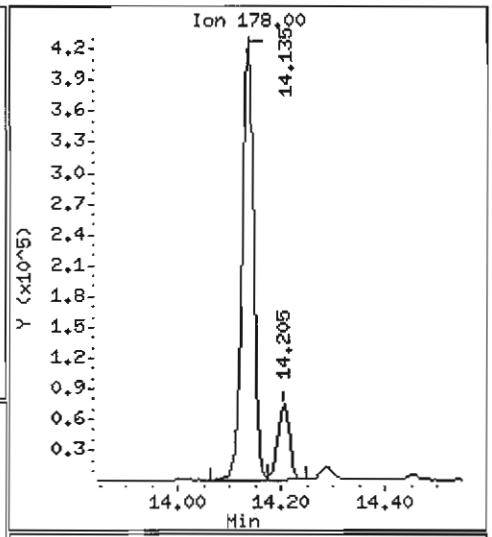
Concentration: 456.6 ug/kg

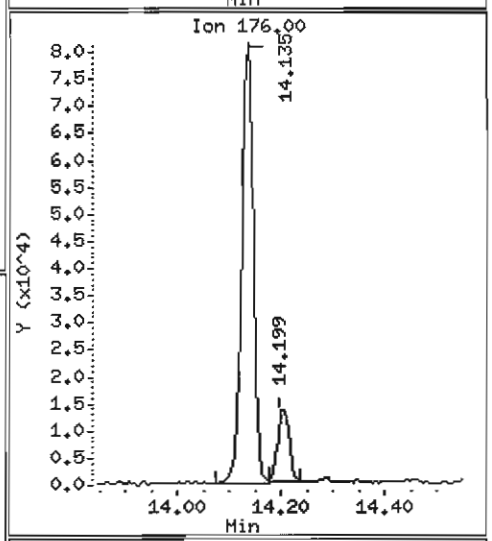


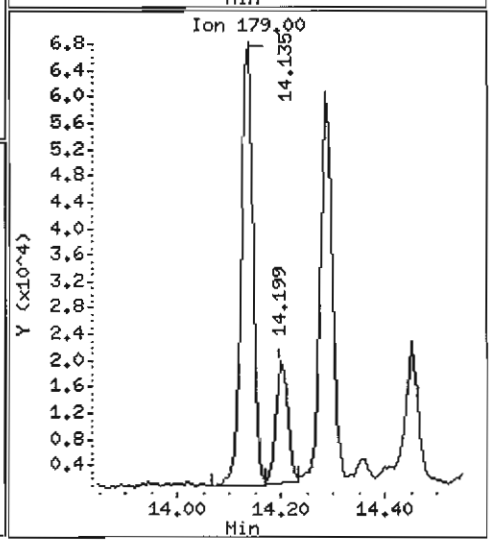












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

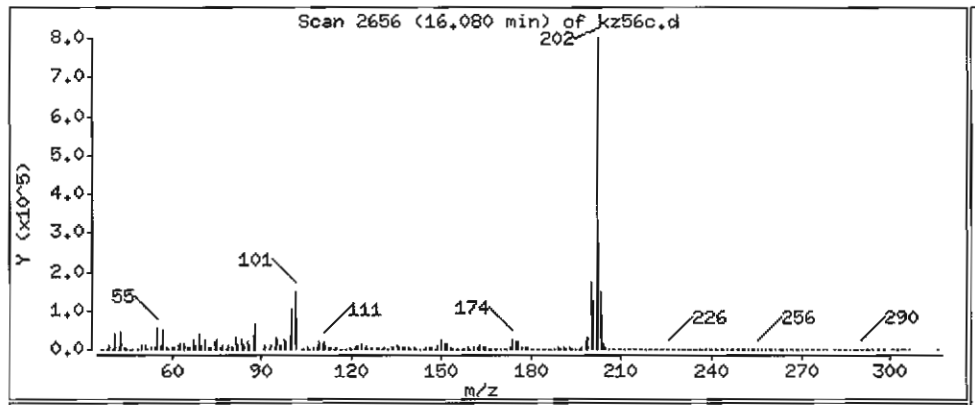
Operator: LJR/VTS

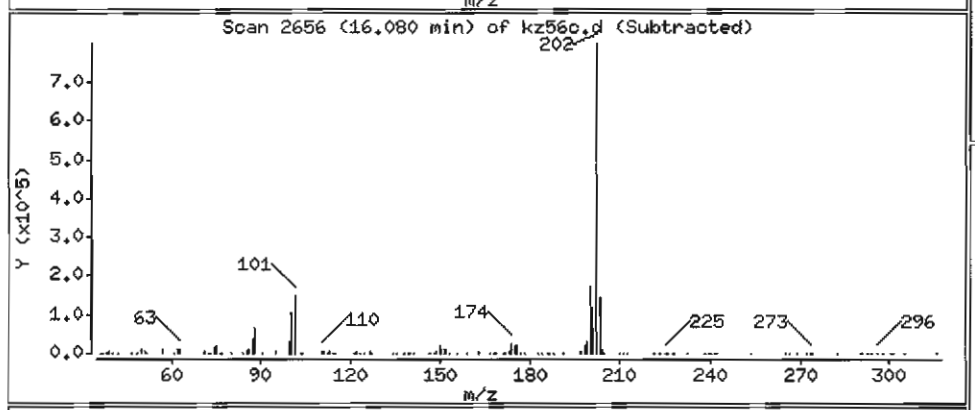
Column phase: ZB-5

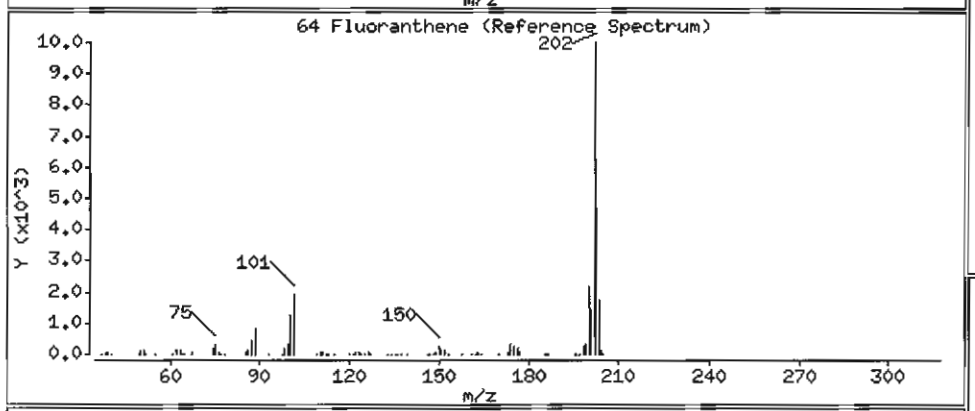
Column diameter: 0.32

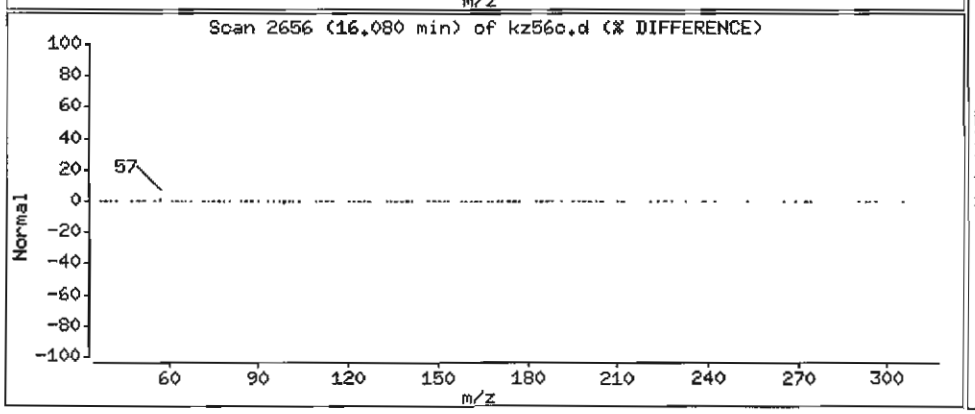
64 Fluoranthene

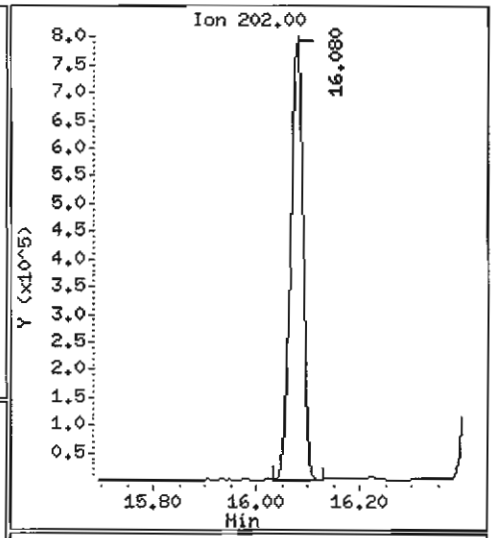
Concentration: 5803 ug/kg

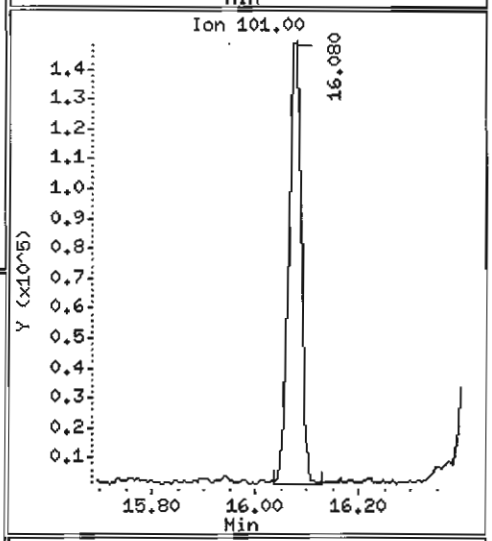


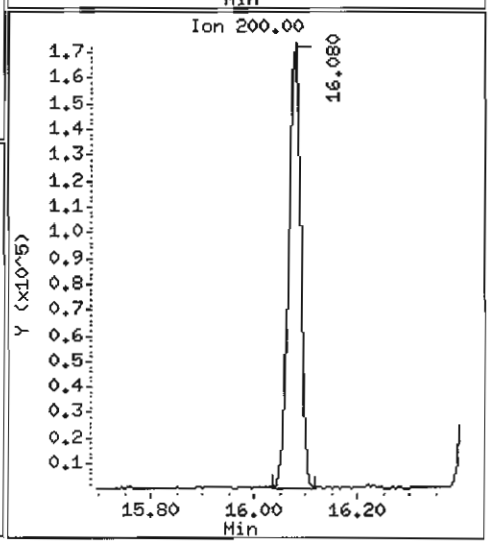












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

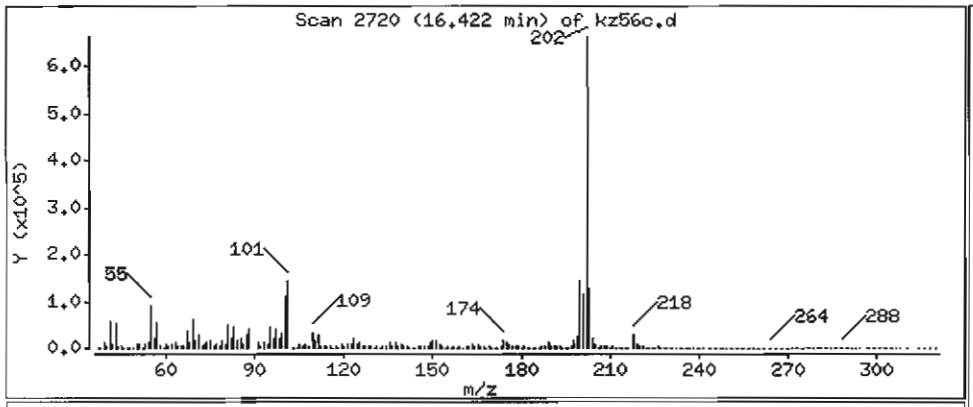
Operator: LJR/VTS

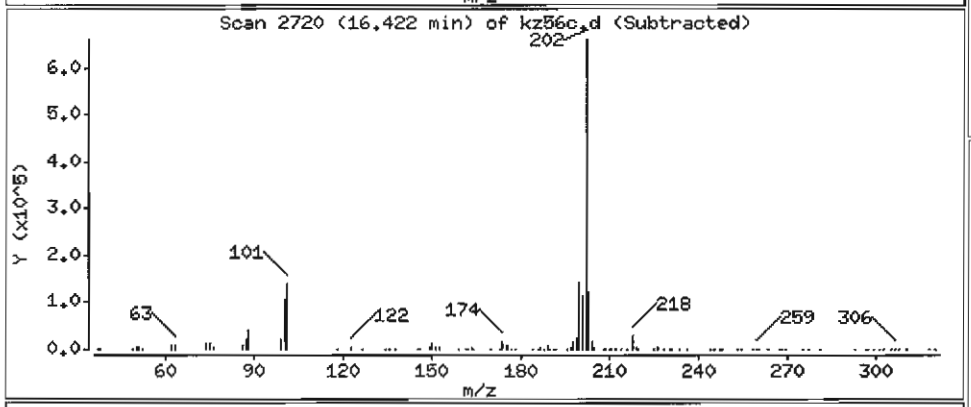
Column phase: ZB-5

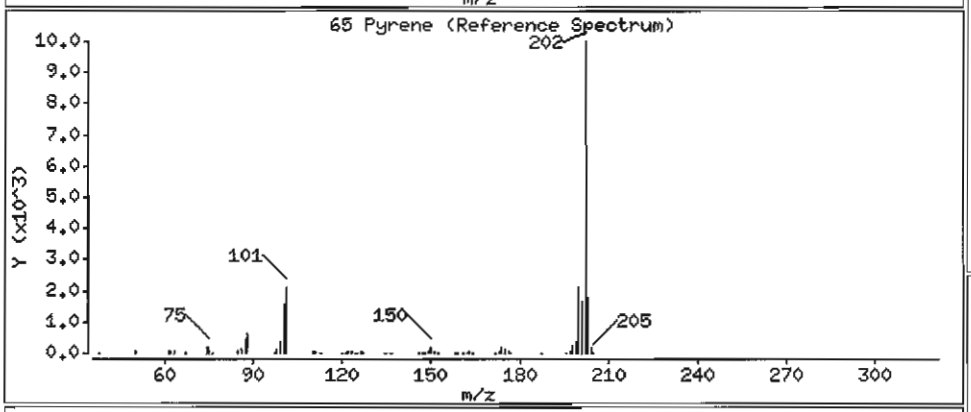
Column diameter: 0.32

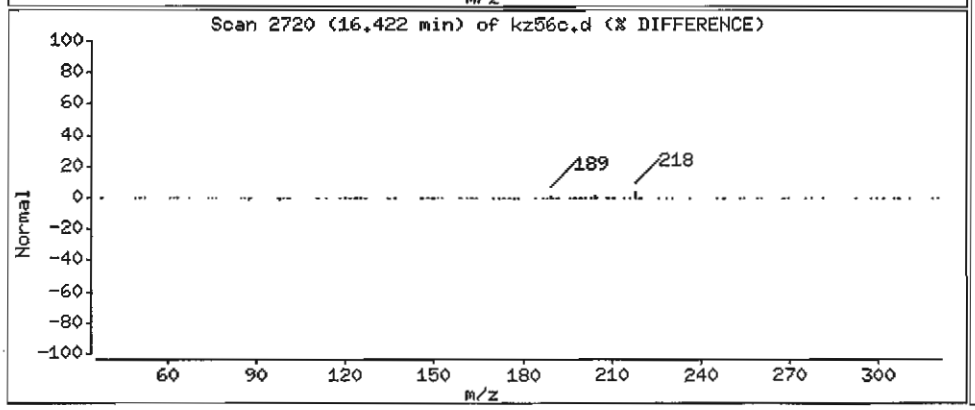
65 Pyrene

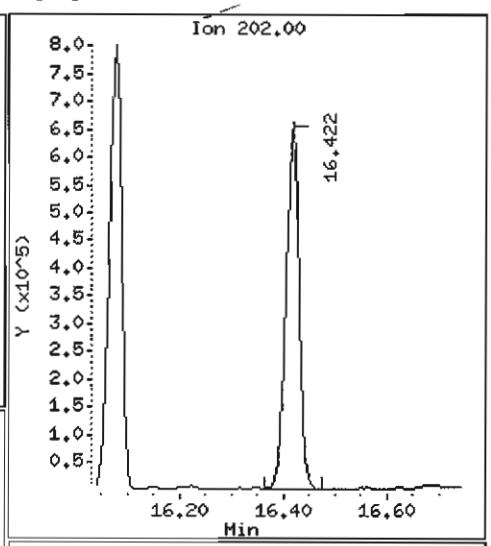
Concentration: 5142 ug/kg

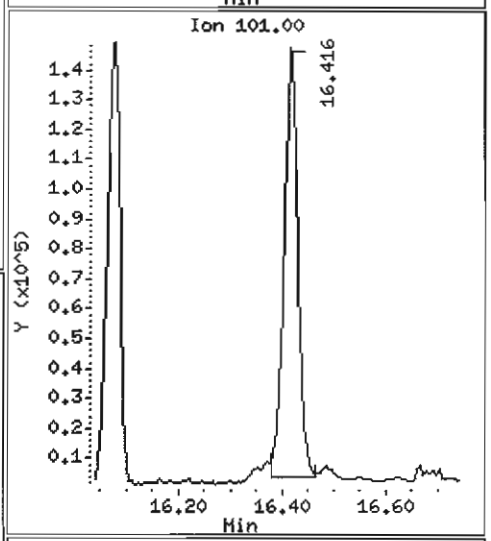


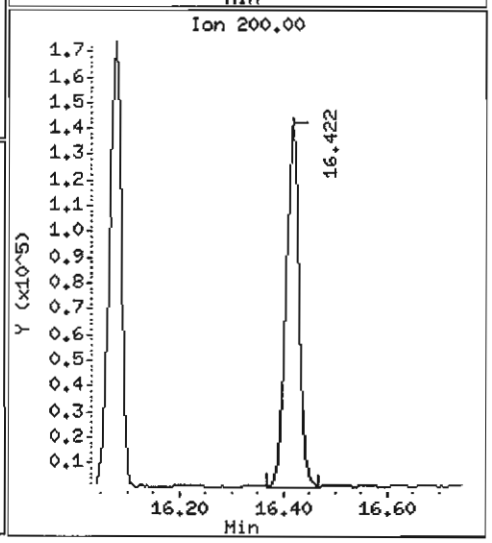












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

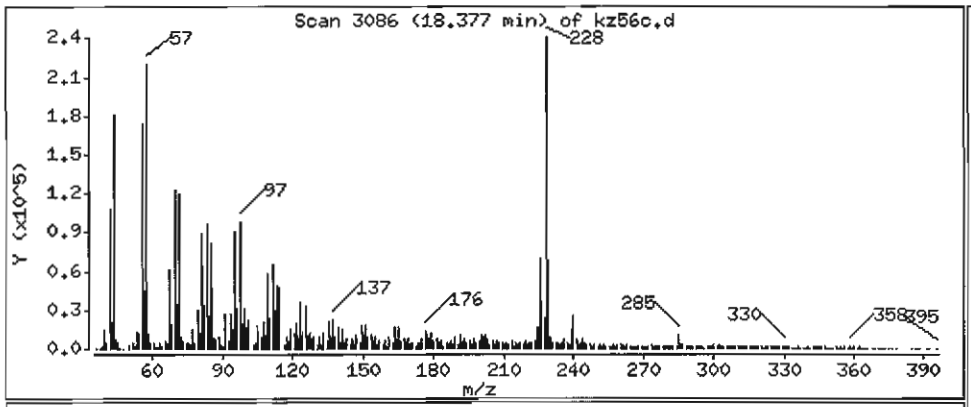
Operator: LJR/VTS

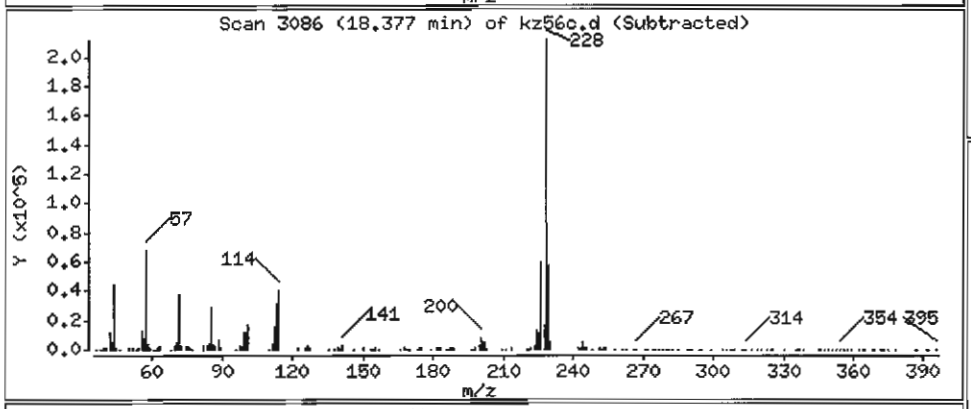
Column phase: ZB-5

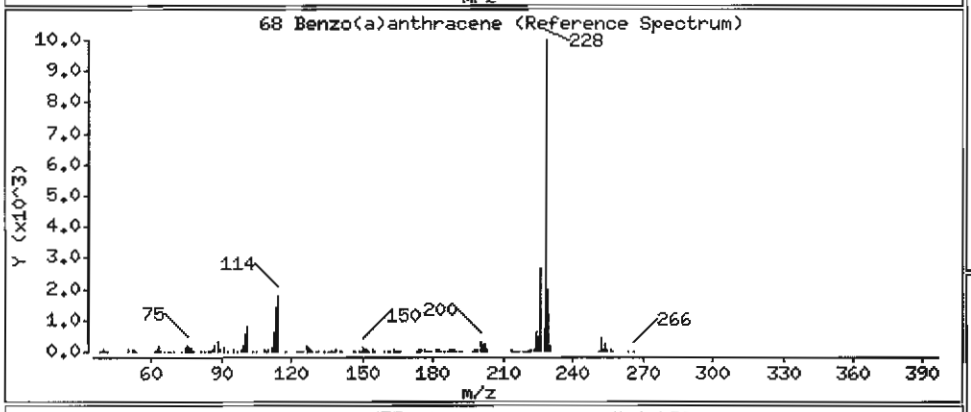
Column diameter: 0.32

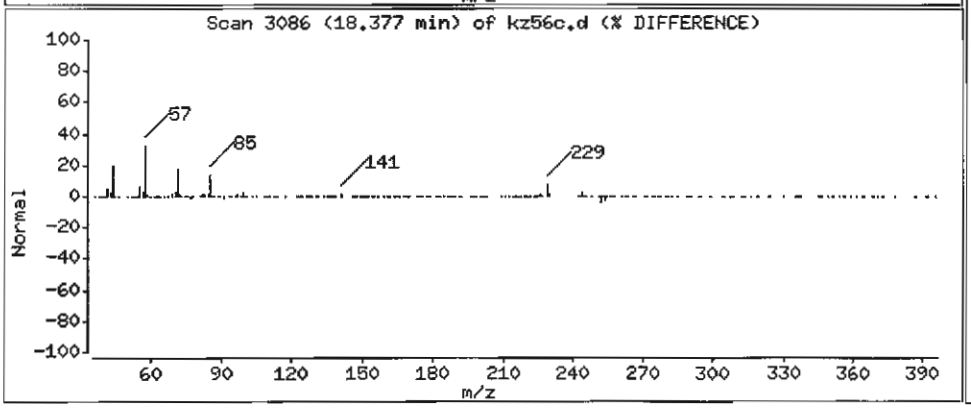
68 Benzo(a)anthracene

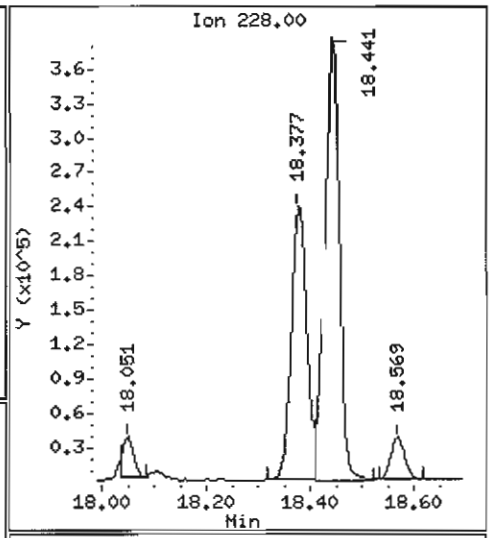
Concentration: 2400 ug/kg

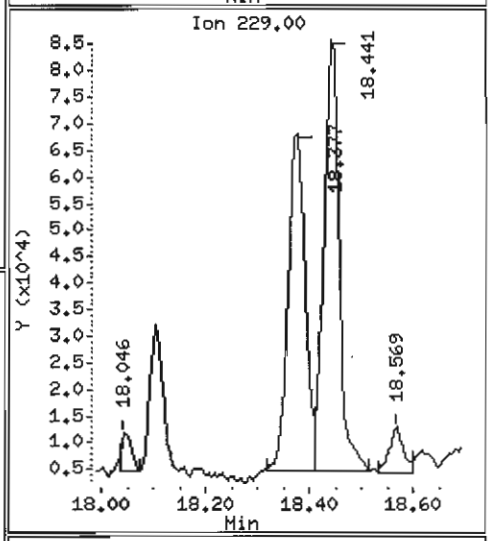


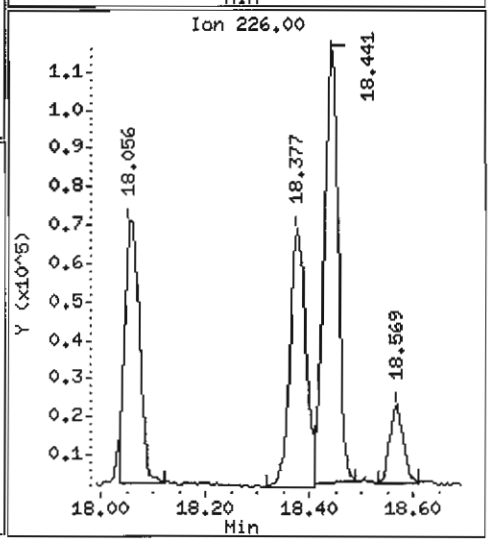












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

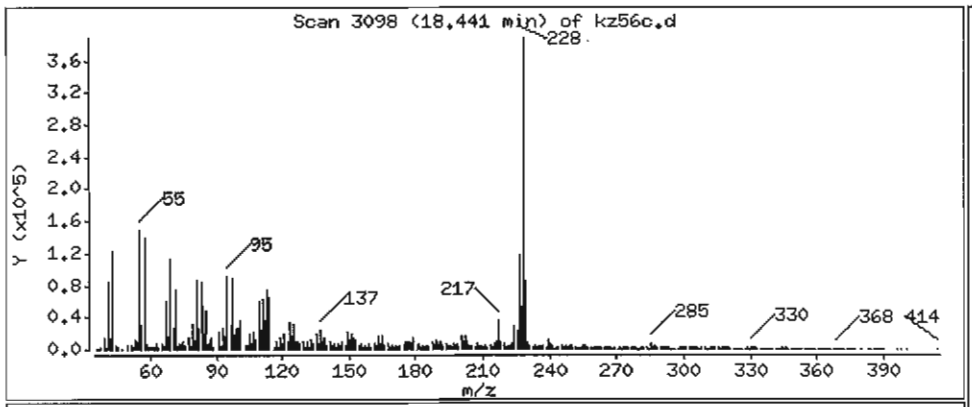
Operator: LJR/VTS

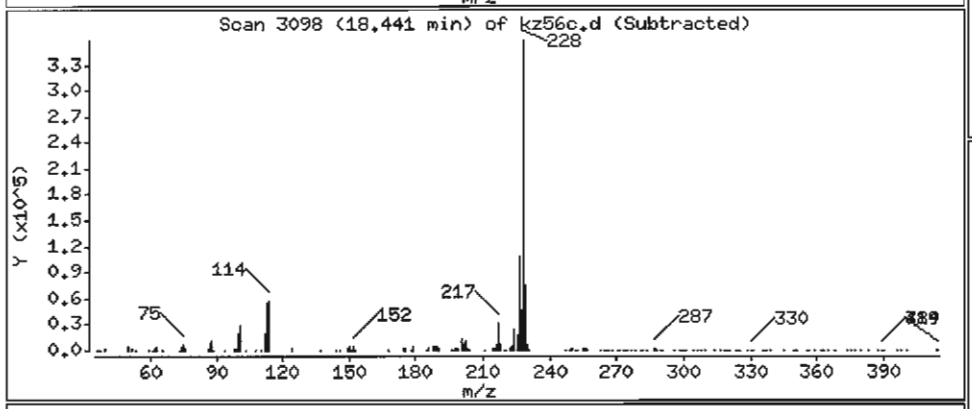
Column phase: ZB-5

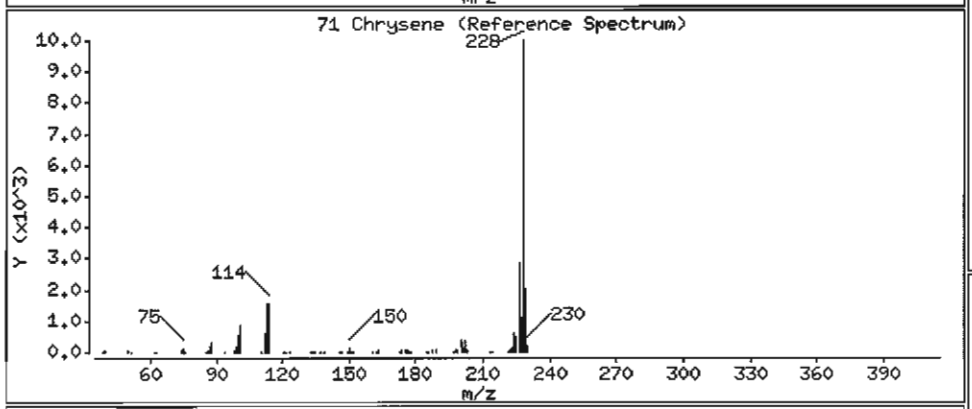
Column diameter: 0.32

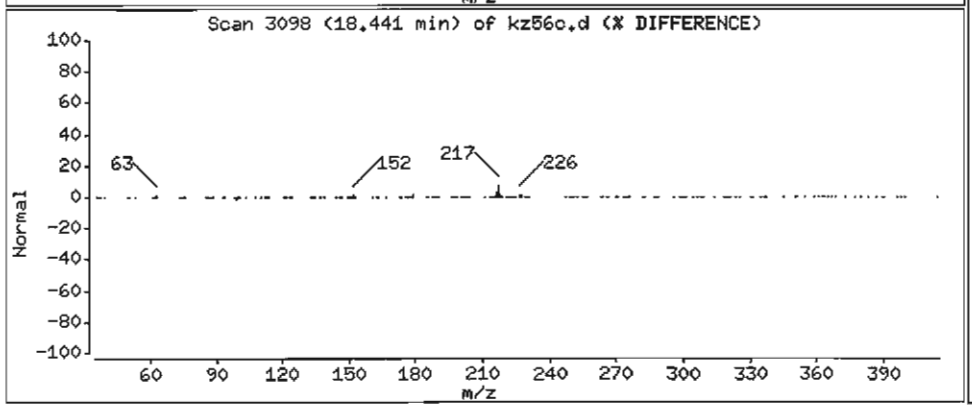
71 Chrysene

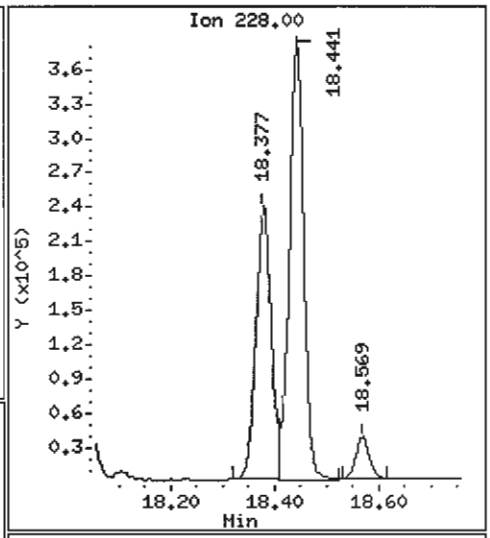
Concentration: 3535 ug/kg

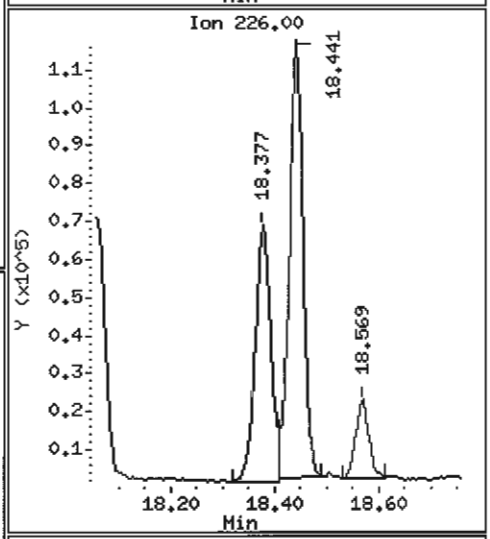


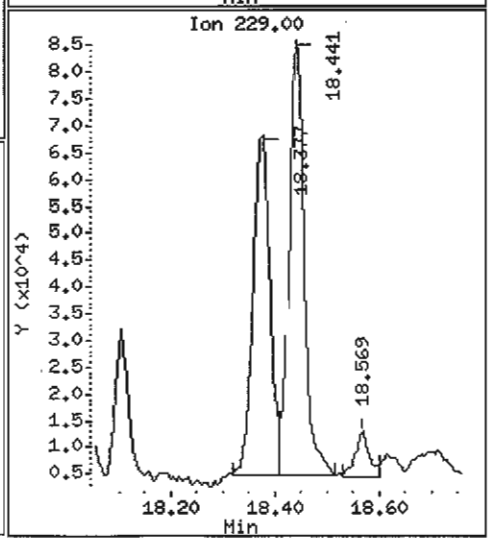












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

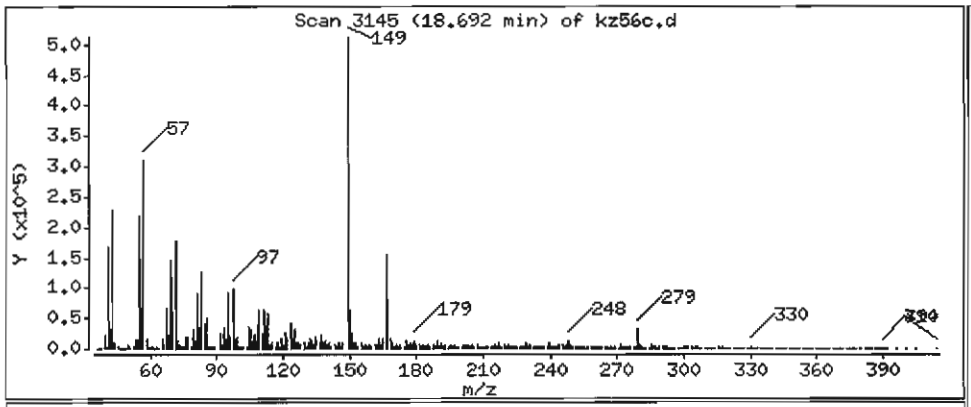
Operator: LJR/VTS

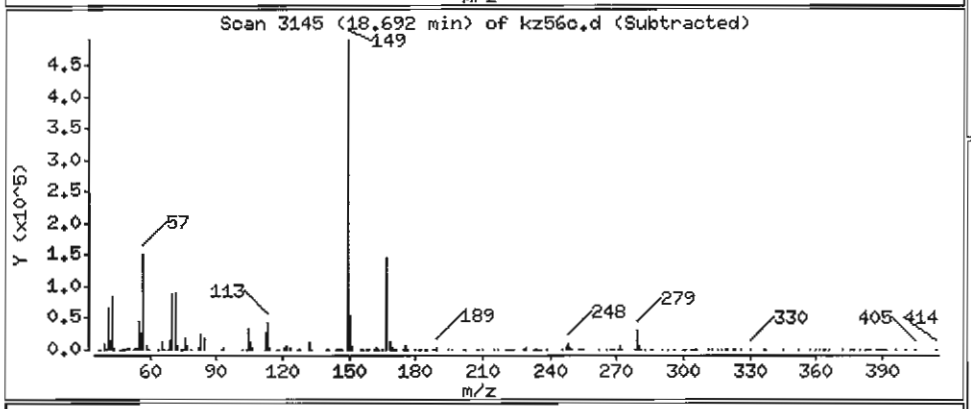
Column phase: ZB-5

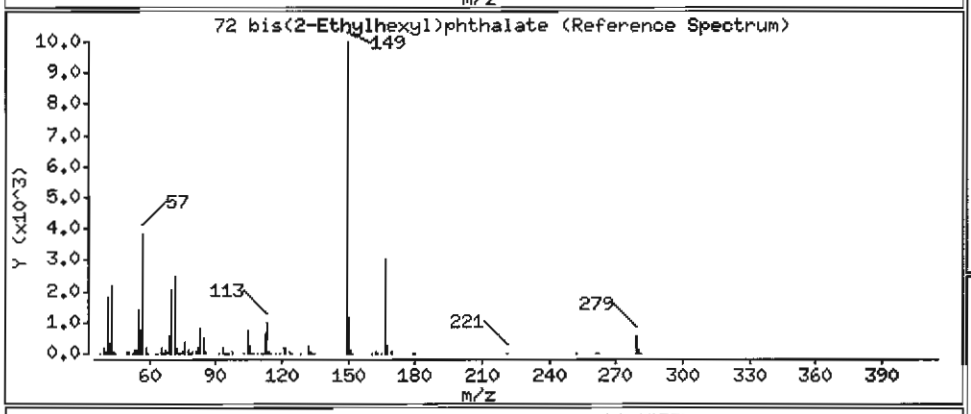
Column diameter: 0.32

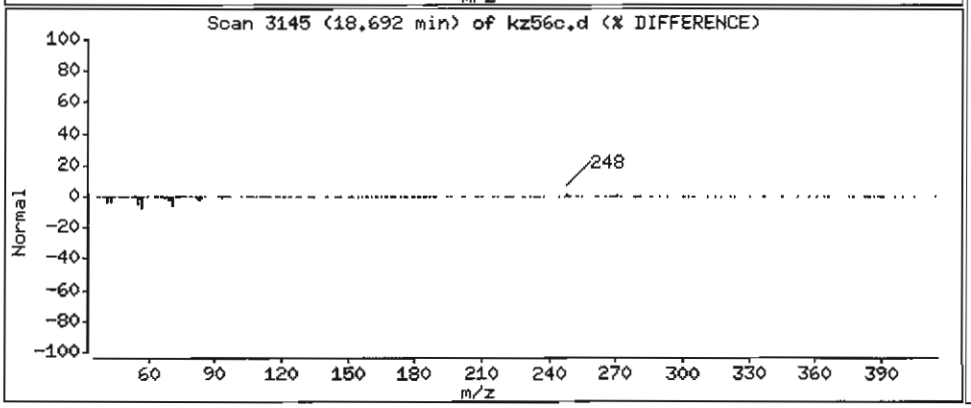
72 bis(2-Ethylhexyl)phthalate

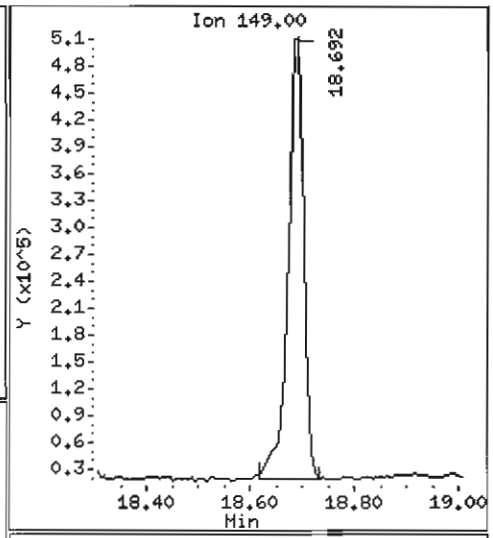
Concentration: 7279 ug/kg

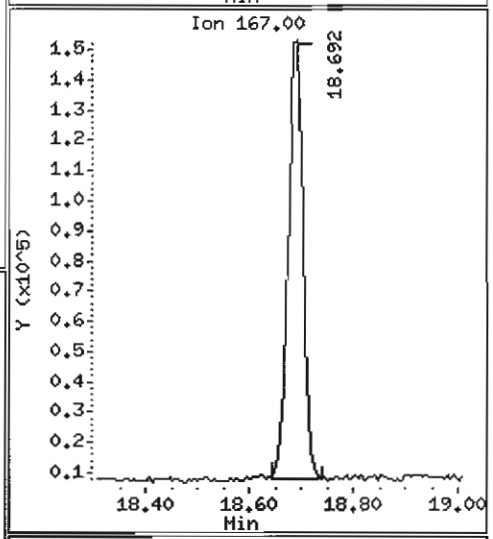


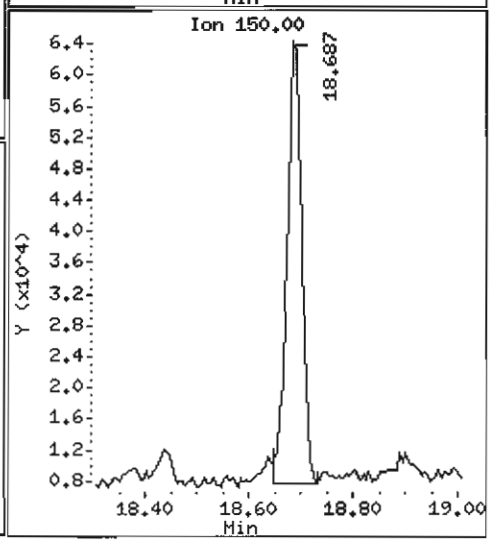












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

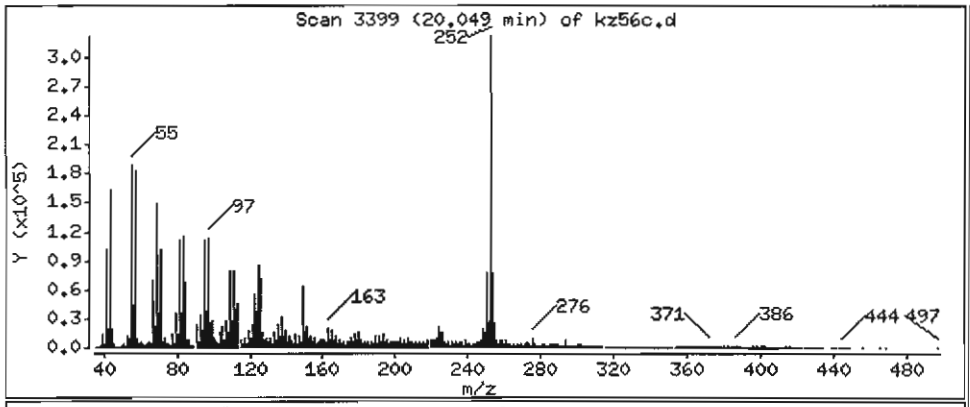
Operator: LJR/VTS

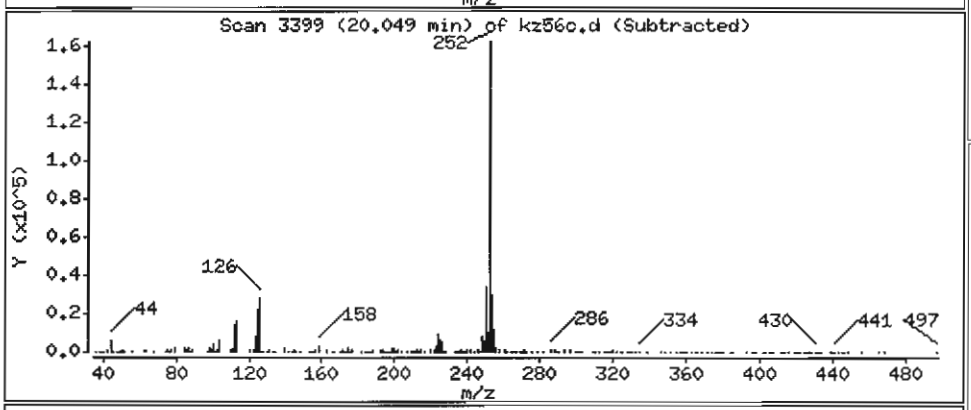
Column phase: ZB-5

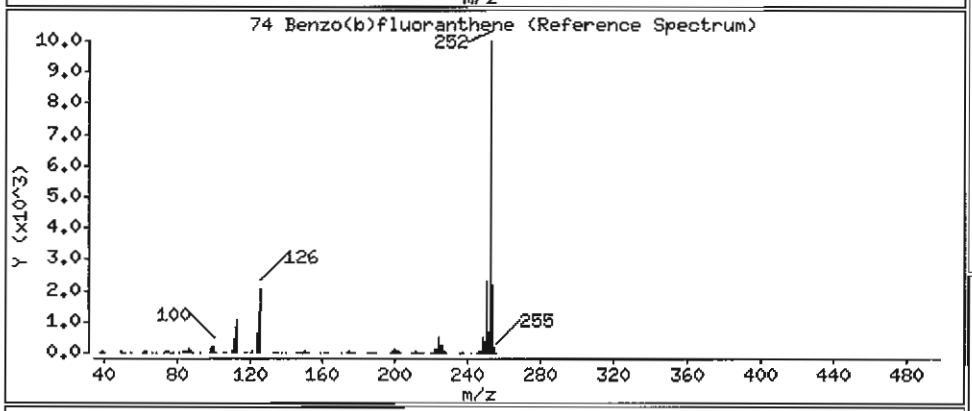
Column diameter: 0.32

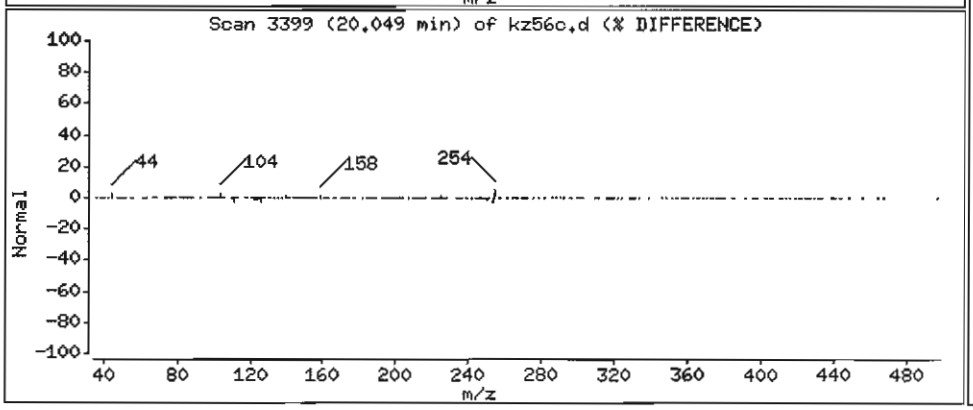
74 Benzo(b)fluoranthene

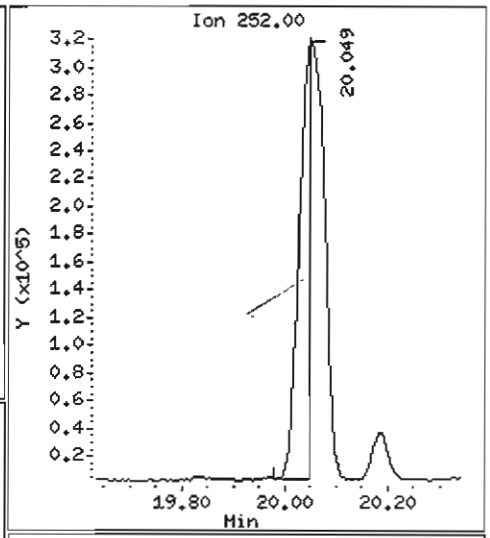
Concentration: 3350 ug/kg

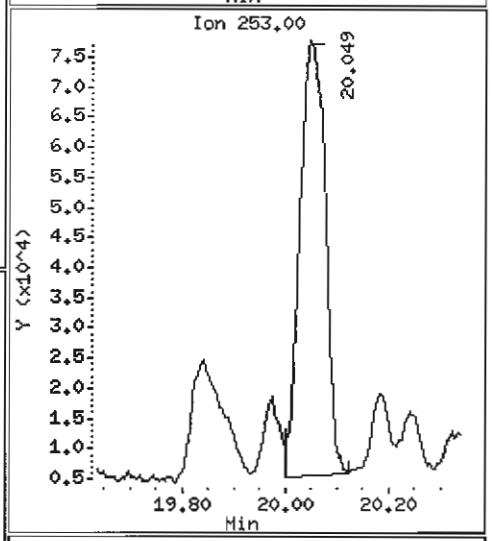


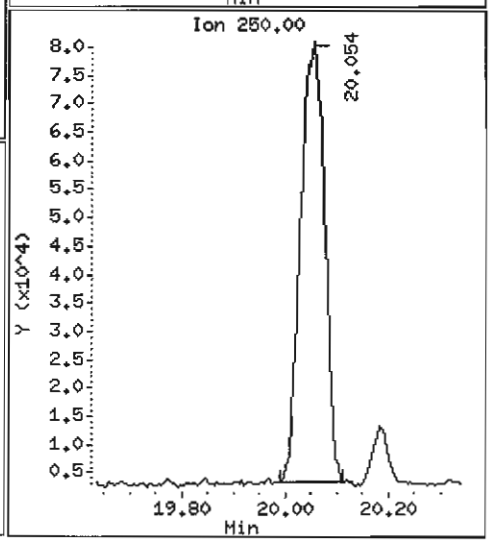












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

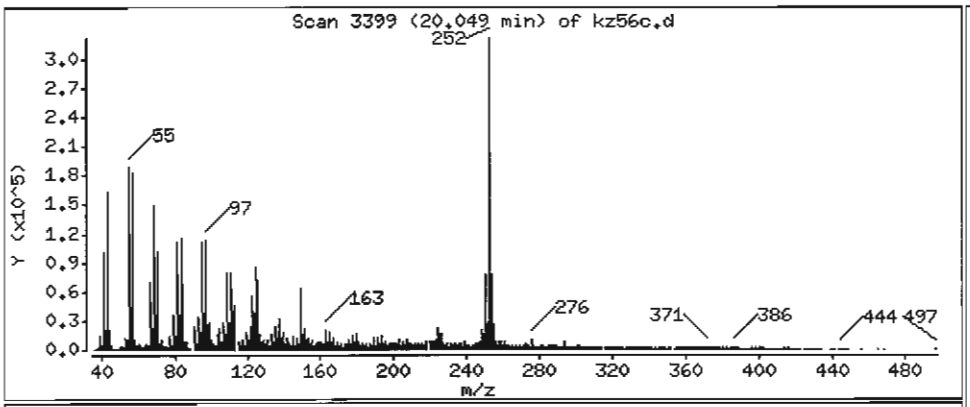
Operator: LJR/VTS

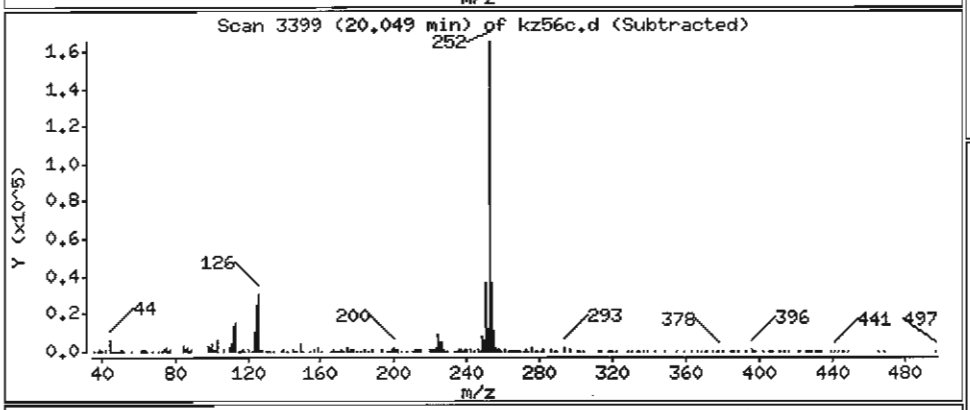
Column phase: ZB-5

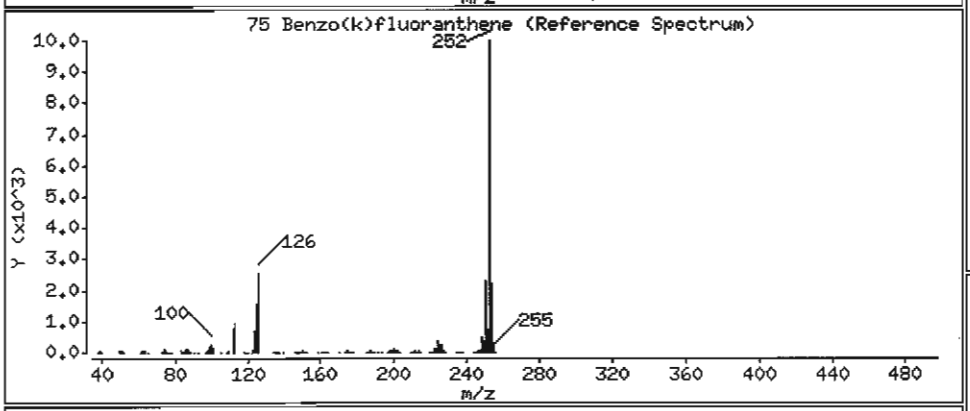
Column diameter: 0.32

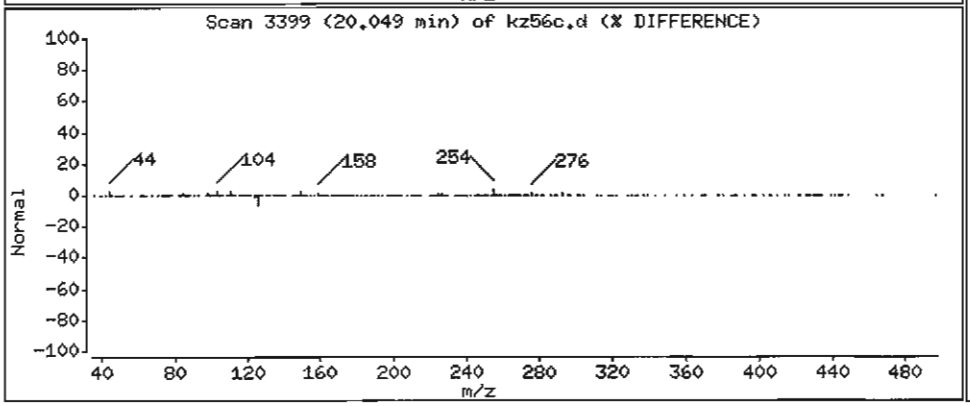
75 Benzo(k)fluoranthene

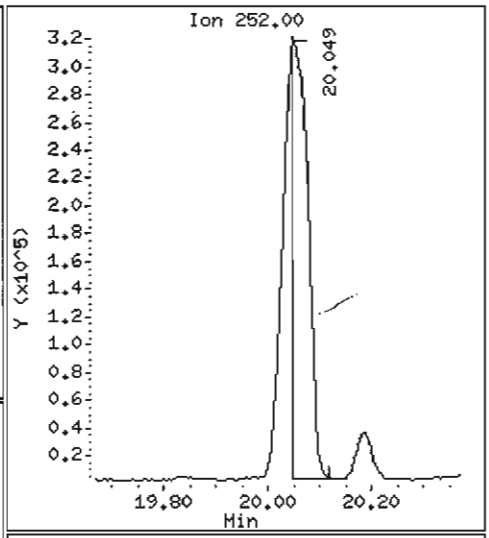
Concentration: 4414 ug/kg

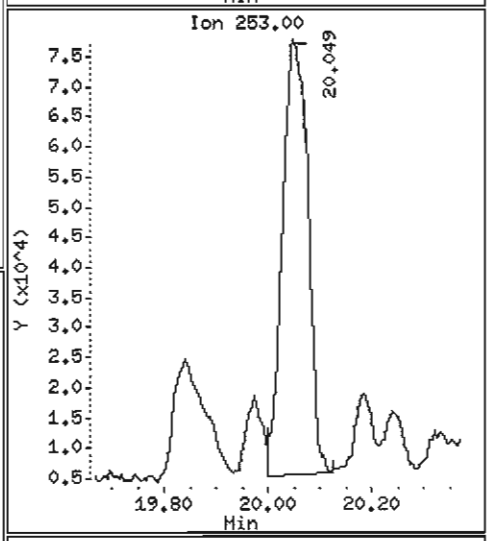


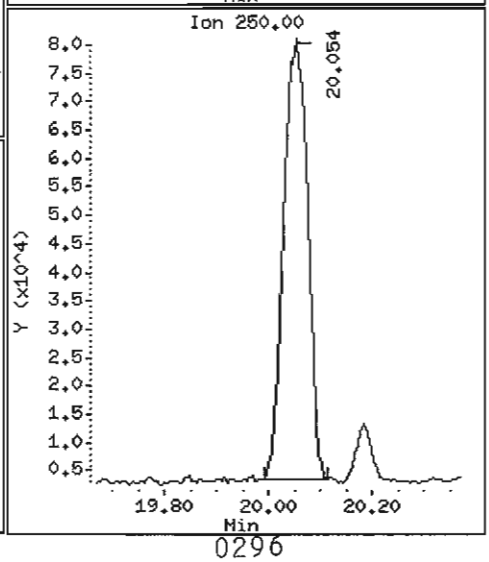












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

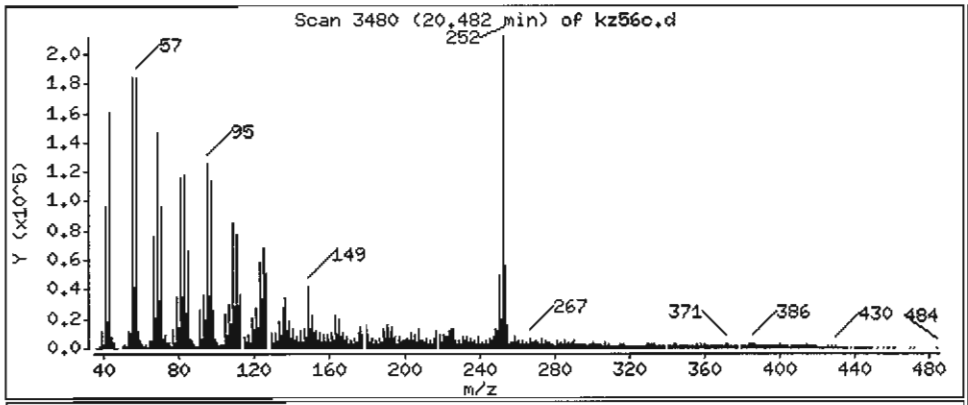
Operator: LJR/VTS

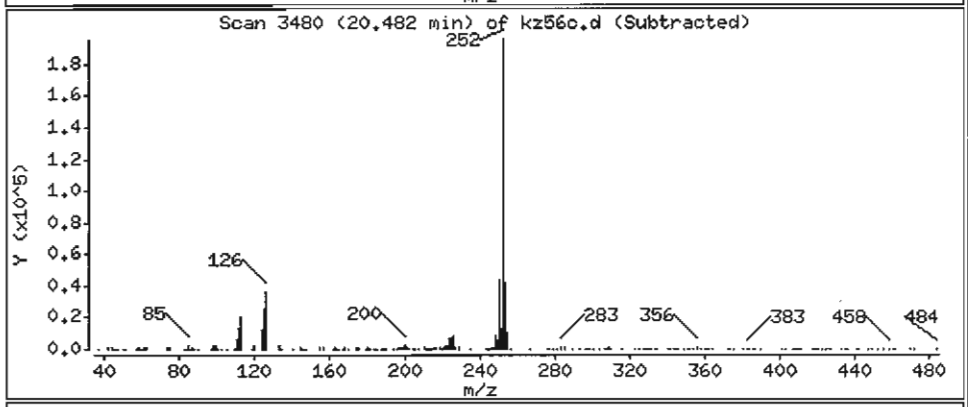
Column phase: ZB-5

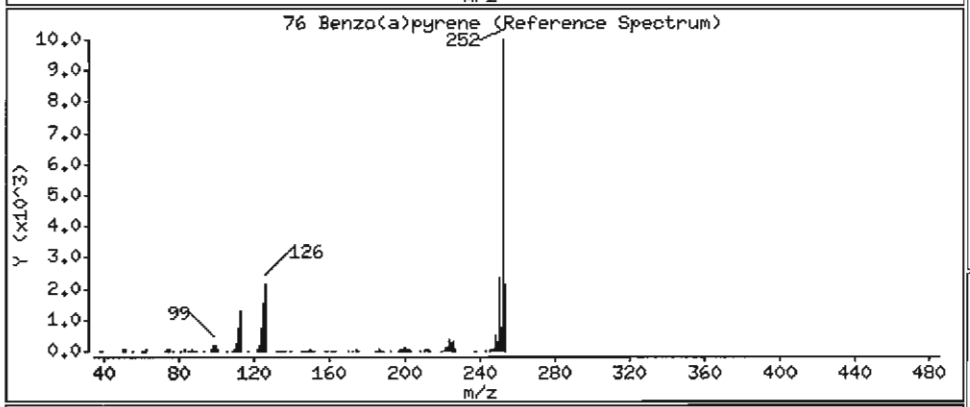
Column diameter: 0.32

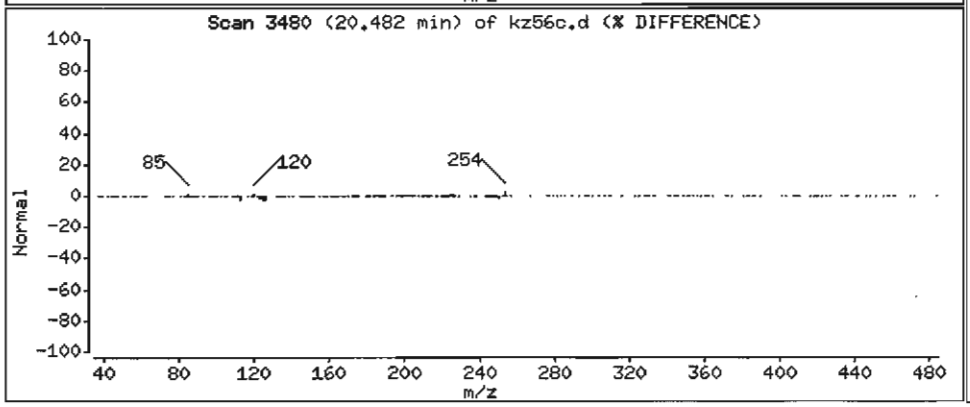
76 Benzo(a)pyrene

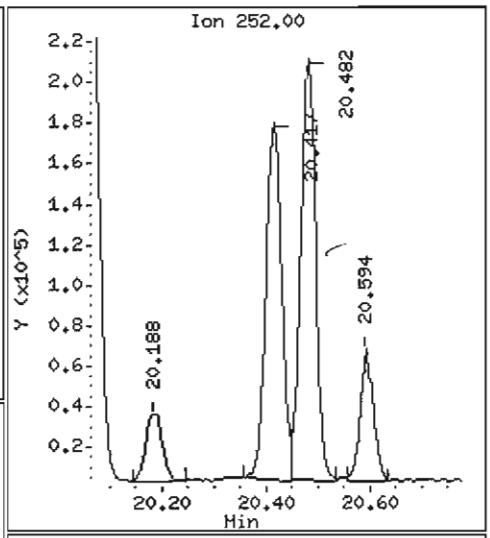
Concentration: 2706 ug/kg

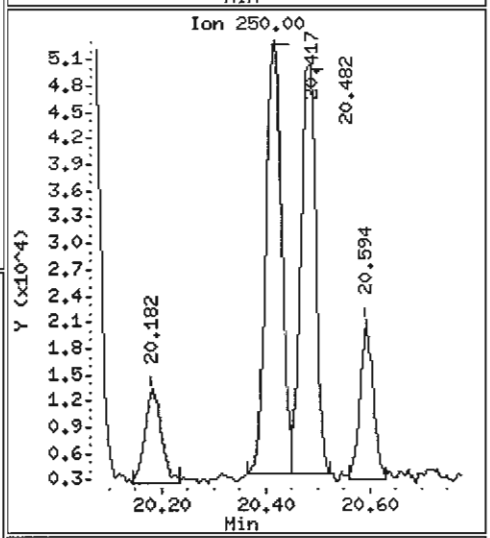


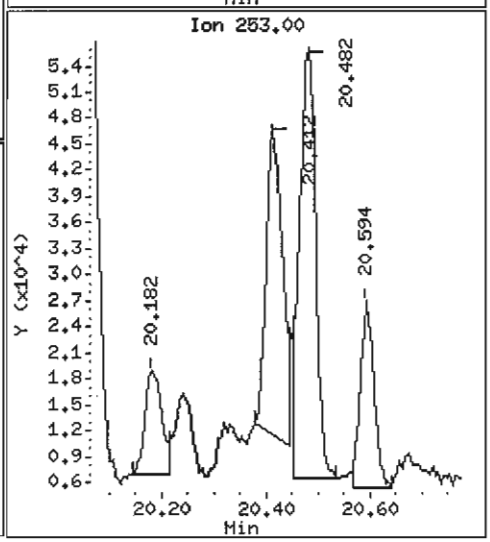












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

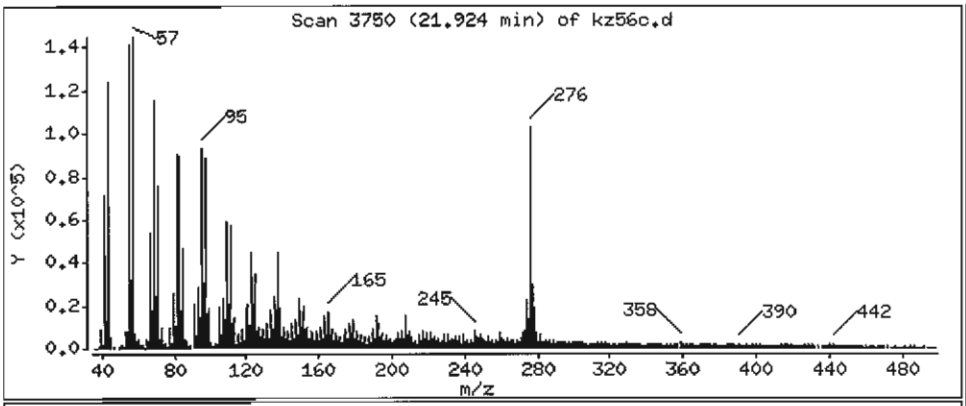
Operator: LJR/WTS

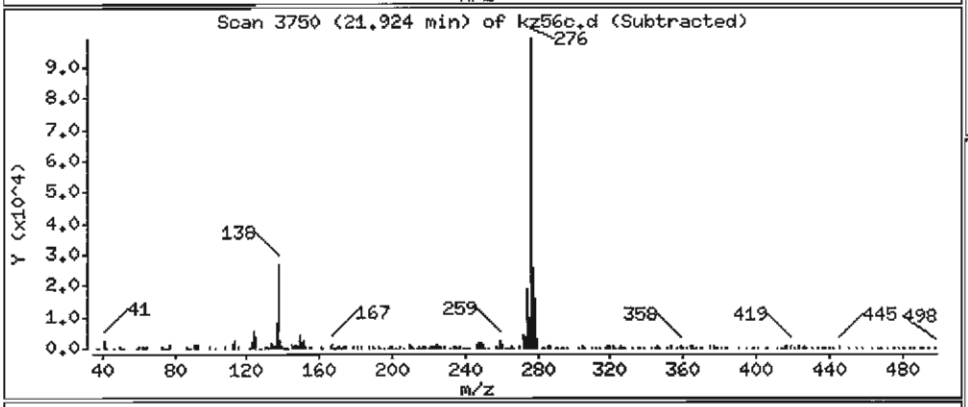
Column phase: ZB-5

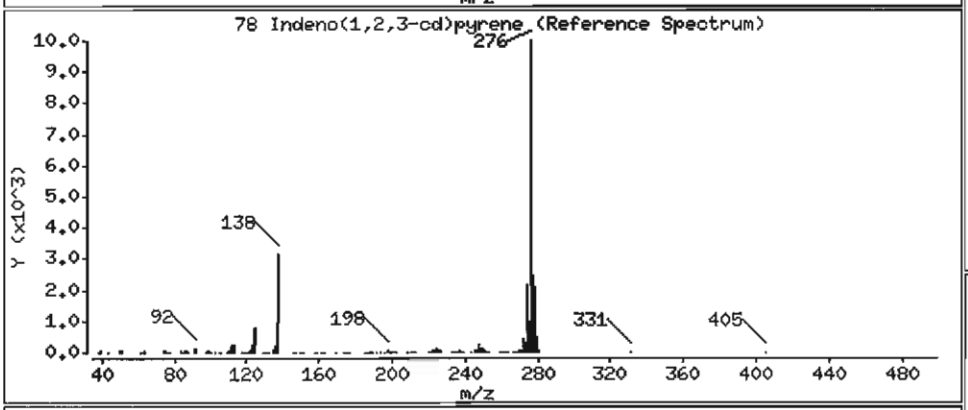
Column diameter: 0.32

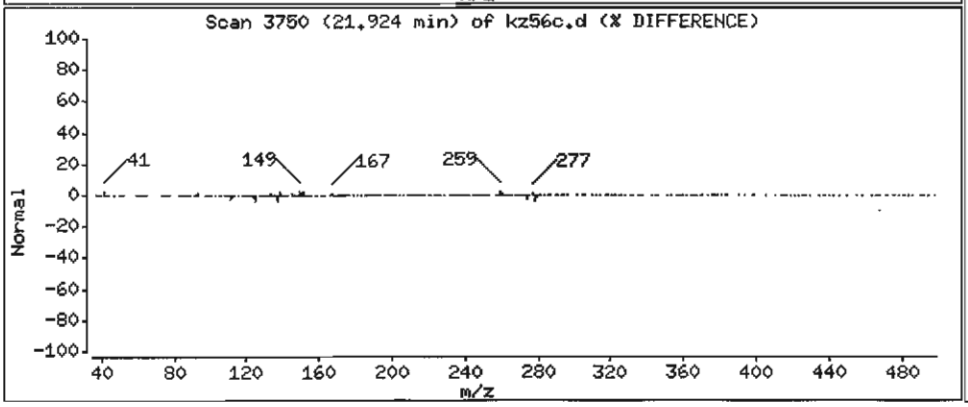
78 Indeno(1,2,3-cd)pyrene

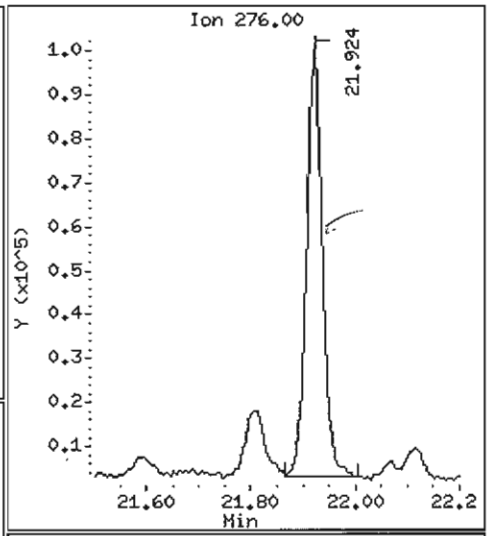
Concentration: 1169 ug/kg

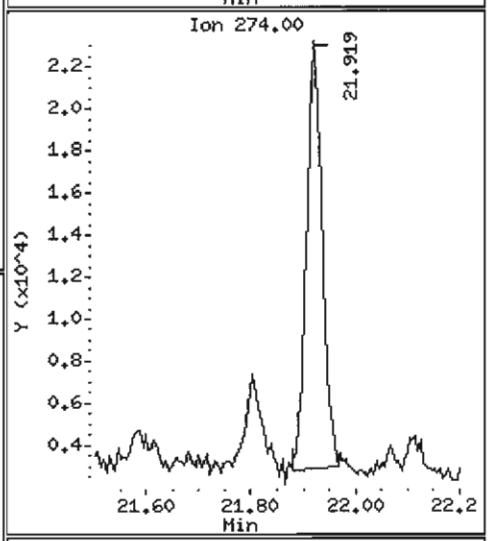


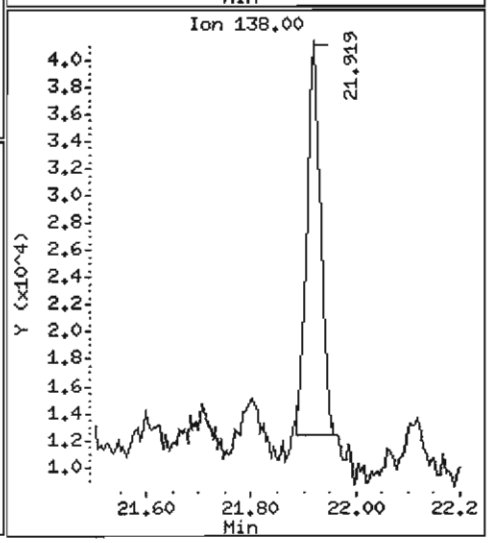












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

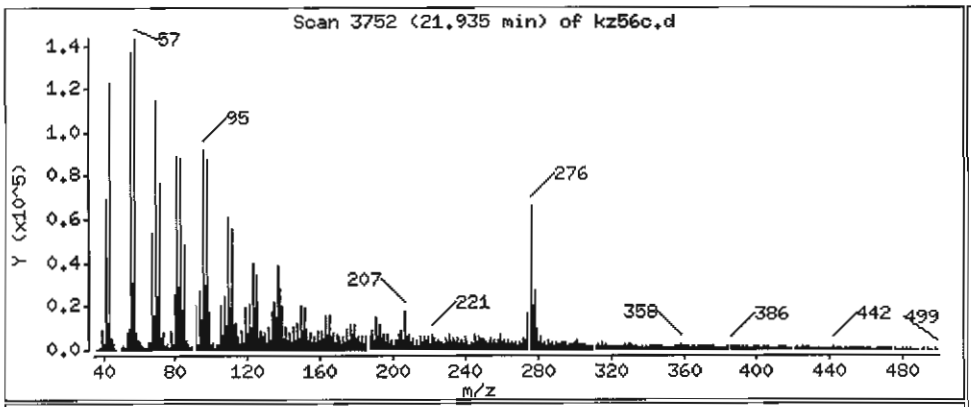
Operator: LJR/VTS

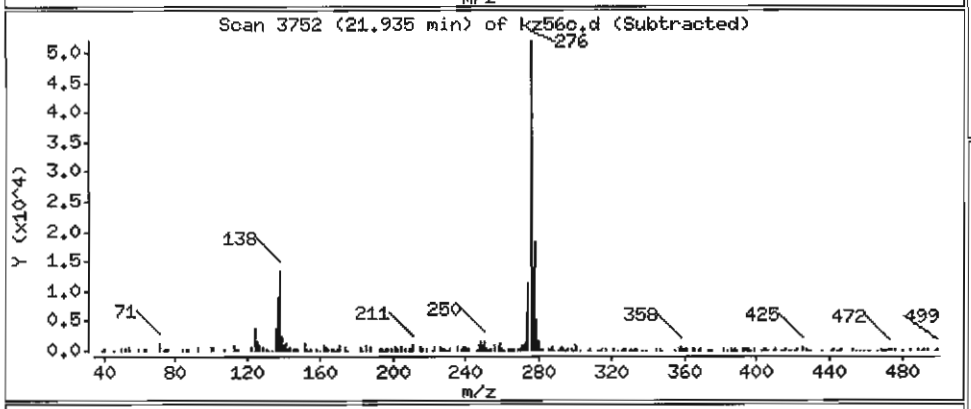
Column phase: ZB-5

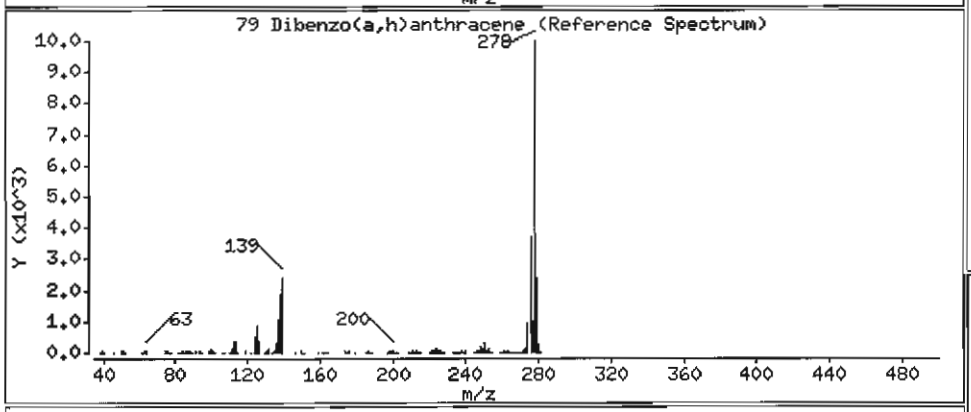
Column diameter: 0.32

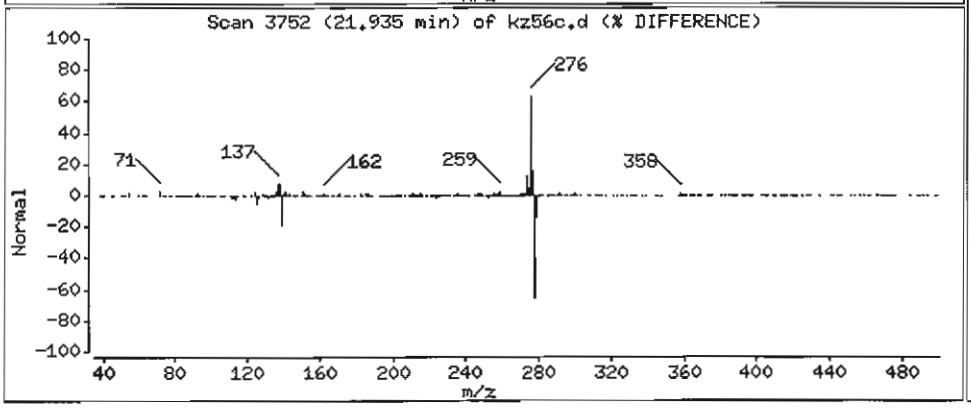
79 Dibenzo(a,h)anthracene

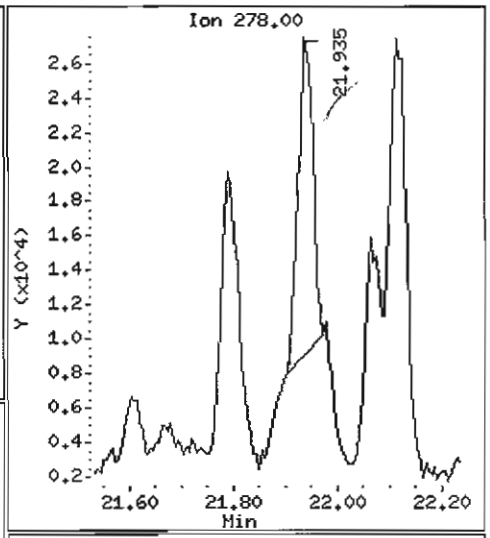
Concentration: 236.5 ug/kg

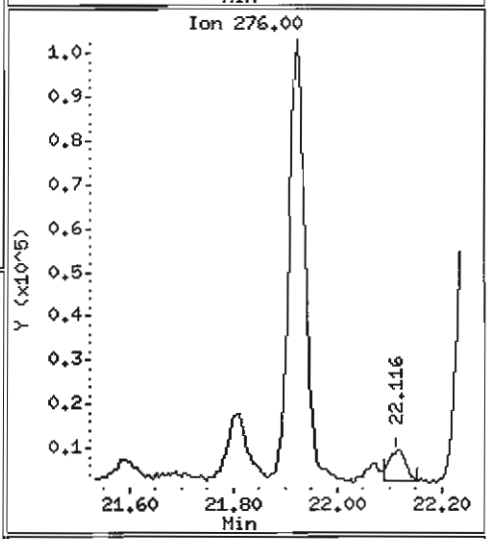


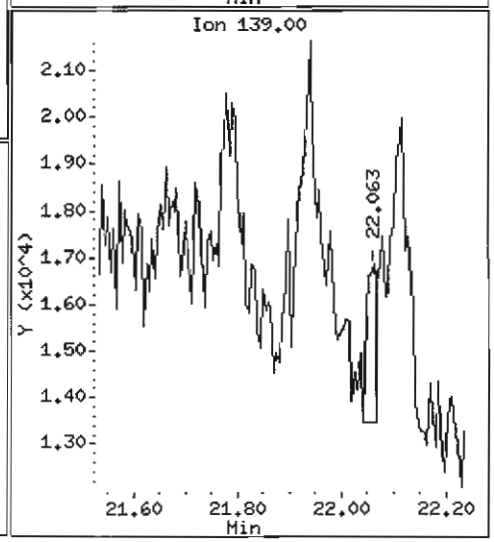












Data File: /chem1/nt6.i/20070526.b/kz56c.d

Date : 26-MAY-2007 19:53

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

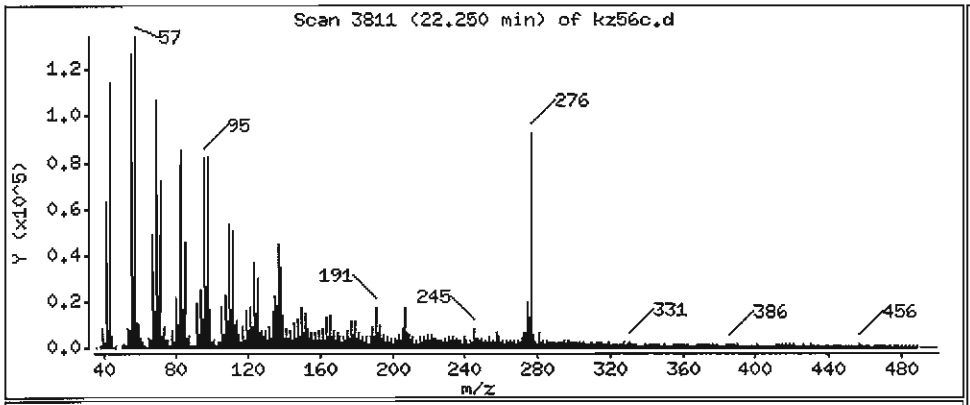
Operator: LJR/VTS

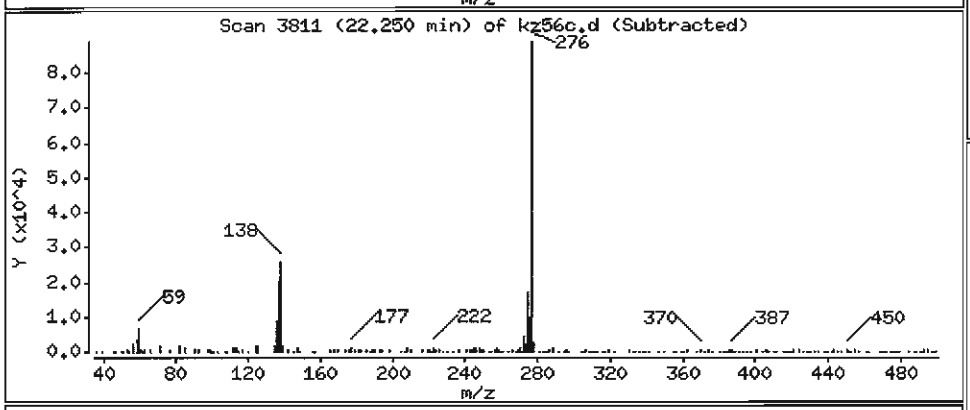
Column phase: ZB-5

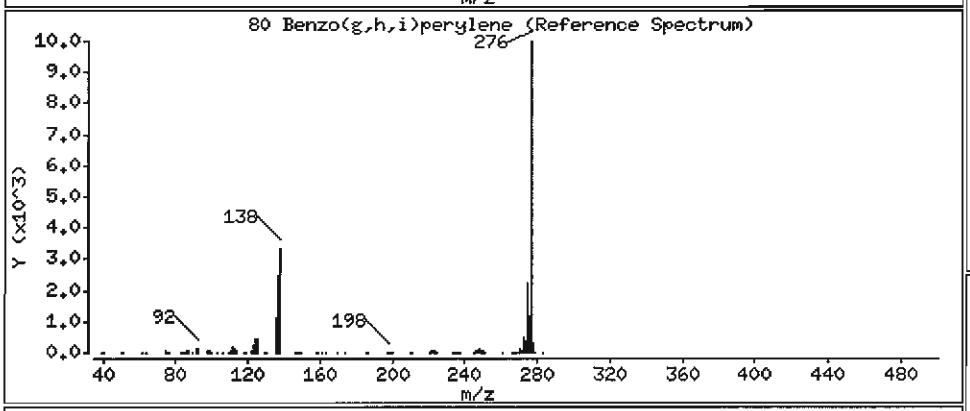
Column diameter: 0.32

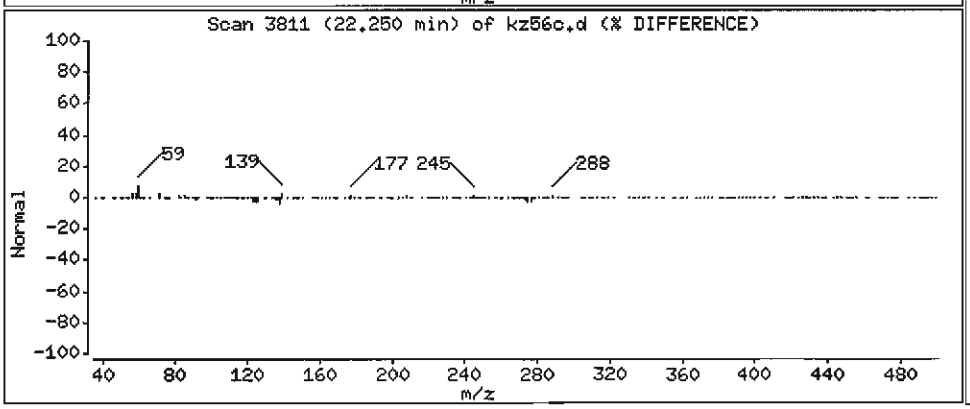
80 Benzo(g,h,i)perylene

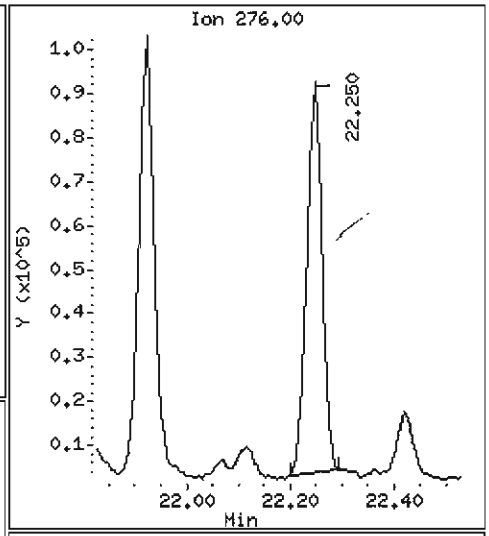
Concentration: 1110 ug/kg

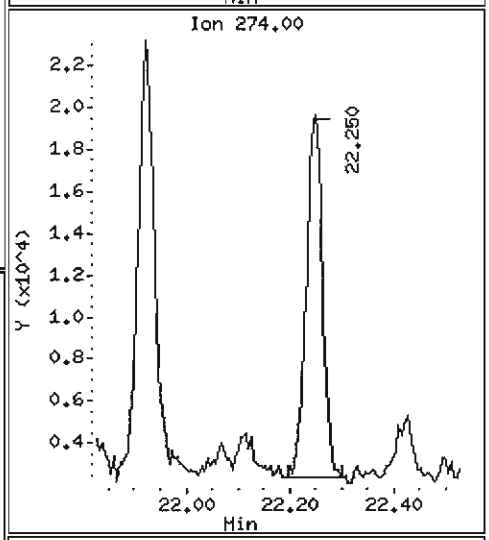


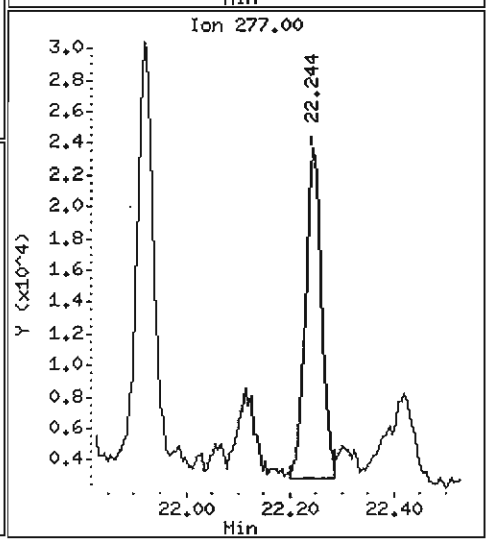












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC13-S
DILUTION

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 10:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 23.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 58.8%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	210	130 J
91-57-6	2-Methylnaphthalene	210	< 210 U
208-96-8	Acenaphthylene	210	< 210 U
83-32-9	Acenaphthene	210	120 J
132-64-9	Dibenzofuran	210	120 J
86-73-7	Fluorene	210	190 J
85-01-8	Phenanthrene	210	2,900
120-12-7	Anthracene	210	460
206-44-0	Fluoranthene	210	6,200
129-00-0	Pyrene	210	5,300
56-55-3	Benzo(a)anthracene	210	2,500
117-81-7	bis(2-Ethylhexyl)phthalate	210	7,300
218-01-9	Chrysene	210	3,500
205-99-2	Benzo(b)fluoranthene	210	3,700
207-08-9	Benzo(k)fluoranthene	210	3,200
50-32-8	Benzo(a)pyrene	210	2,700
193-39-5	Indeno(1,2,3-cd)pyrene	210	1,400
53-70-3	Dibenz(a,h)anthracene	210	330
191-24-2	Benzo(g,h,i)perylene	210	1,400

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.2%	2-Fluorobiphenyl	71.0%
d14-p-Terphenyl	72.0%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	69.9%	2-Fluorophenol	62.8%
2,4,6-Tribromophenol	73.2%	d4-2-Chlorophenol	68.0%

FORM I

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56cdl.d
Lab Smp Id: KZ56C Client Smp ID: Y3-RC13-S
Inj Date : 29-MAY-2007 10:26
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56C,5
Misc Info : 07-9549
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 3
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	58.10000	Weight of sample extracted (g)
M	58.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.914	4.903	(0.722)	100966	4.71479	984.8
$ 2 Phenol-d5	99	6.452	6.447	(0.948)	131674	5.24042	1095
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.522	6.521	(0.958)	88692	5.10495	1066
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.805	6.805	(1.000)	235542	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.094	7.093	(1.042)	33366	3.14063	656.0
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	7.051	7.114	(1.036)	10262	0.74665 LDL	156.0(M)
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.724	7.729	(0.876)	73294	3.60572	753.2
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.819	8.819	(1.000)	854264	20.0000	
	28 Naphthalene	128	8.846	8.851	(1.003)	32118	0.63474 LDL	132.6
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.619	10.619	(0.912)	105606	3.54779	741.1
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.650	11.655	(1.000)	441049	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.698	11.703	(1.004)	16615	0.59698 LDL	124.7(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	11.960	11.965	(1.027)	21284	0.56730 LDL	118.5
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.510	12.515	(1.074)	27081	0.91599 LDL	191.3
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.938	12.937	(1.111)	24670	5.49414	1148
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.846	13.840	(0.989)	3038	0.64035 LDL	133.8
*	59 Phenanthrene-d10	188	14.001	14.001	(1.000)	612303	20.0000	
	60 Phenanthrene	178	14.038	14.038	(1.003)	564307	13.8097	2885
	61 Anthracene	178	14.108	14.107	(1.008)	93483	2.21409	462.5
	62 Carbazole	167	14.412	14.412	(1.029)	123493	3.39901	710.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.176	15.165	(1.084)	33395	0.74530 LDL	155.7(M)
64 Fluoranthene	202	15.972	15.956	(1.141)	1157410	29.8533	6236
65 Pyrene	202	16.314	16.303	(0.892)	1005854	25.2287	5270
$ 66 Terphenyl-d14	244	16.656	16.650	(0.910)	90854	3.59850	751.7
67 Butylbenzylphthalate	149	17.564	17.558	(0.960)	38796	2.06958	432.3(M)
68 Benzo(a)anthracene	228	18.269	18.253	(0.999)	429956	11.9789	2502
* 69 Chrysene-d12	240	18.296	18.280	(1.000)	480501	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.333	18.322	(1.002)	603534	16.6221	3472
72 bis(2-Ethylhexyl)phthalate	149	18.590	18.573	(0.952)	885389	34.7644	7262(M)
* 134 Di-n-octylphthalate-d4	153	19.525	19.503	(1.000)	743570	20.0000	
73 Di-n-octylphthalate	149	19.541	19.514	(1.001)	113878	2.57798	538.5(M)
74 Benzo(b)fluoranthene	252	19.931	19.898	(0.975)	585333	17.6552	3688(M)
75 Benzo(k)fluoranthene	252	19.941	19.930	(0.975)	492071	15.4502	3227(M)
76 Benzo(a)pyrene	252	20.369	20.336	(0.996)	432636	13.0374	2723
* 77 Perylene-d12	264	20.449	20.416	(1.000)	511332	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.806	21.768	(1.066)	272736	6.95176	1452(M)
79 Dibenzo(a,h)anthracene	278	21.822	21.789	(1.067)	51075	1.57183	328.3(M)
80 Benzo(g,h,i)perylene	276	22.121	22.078	(1.082)	236835	6.58969	1376(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.367	6.377	(0.936)	422229	11.9851 Y	2503
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56cdl.d
Lab Smp Id: KZ56C
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9549

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC13-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	235542	8.20
27 Naphthalene-d8	775413	387706	1550826	854264	10.17
42 Acenaphthene-d10	371068	185534	742136	441049	18.86
59 Phenanthrene-d10	554165	277082	1108330	612303	10.49
69 Chrysene-d12	436021	218010	872042	480501	10.20
134 Di-n-octylphthala	773344	386672	1546688	743570	-3.85
77 Perylene-d12	622369	311184	1244738	511332	-17.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.01
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.01
42 Acenaphthene-d10	11.66	11.16	12.16	11.65	-0.04
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	0.00
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.09
134 Di-n-octylphthala	19.50	19.00	20.00	19.52	0.11
77 Perylene-d12	20.42	19.92	20.92	20.45	0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56C
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9549

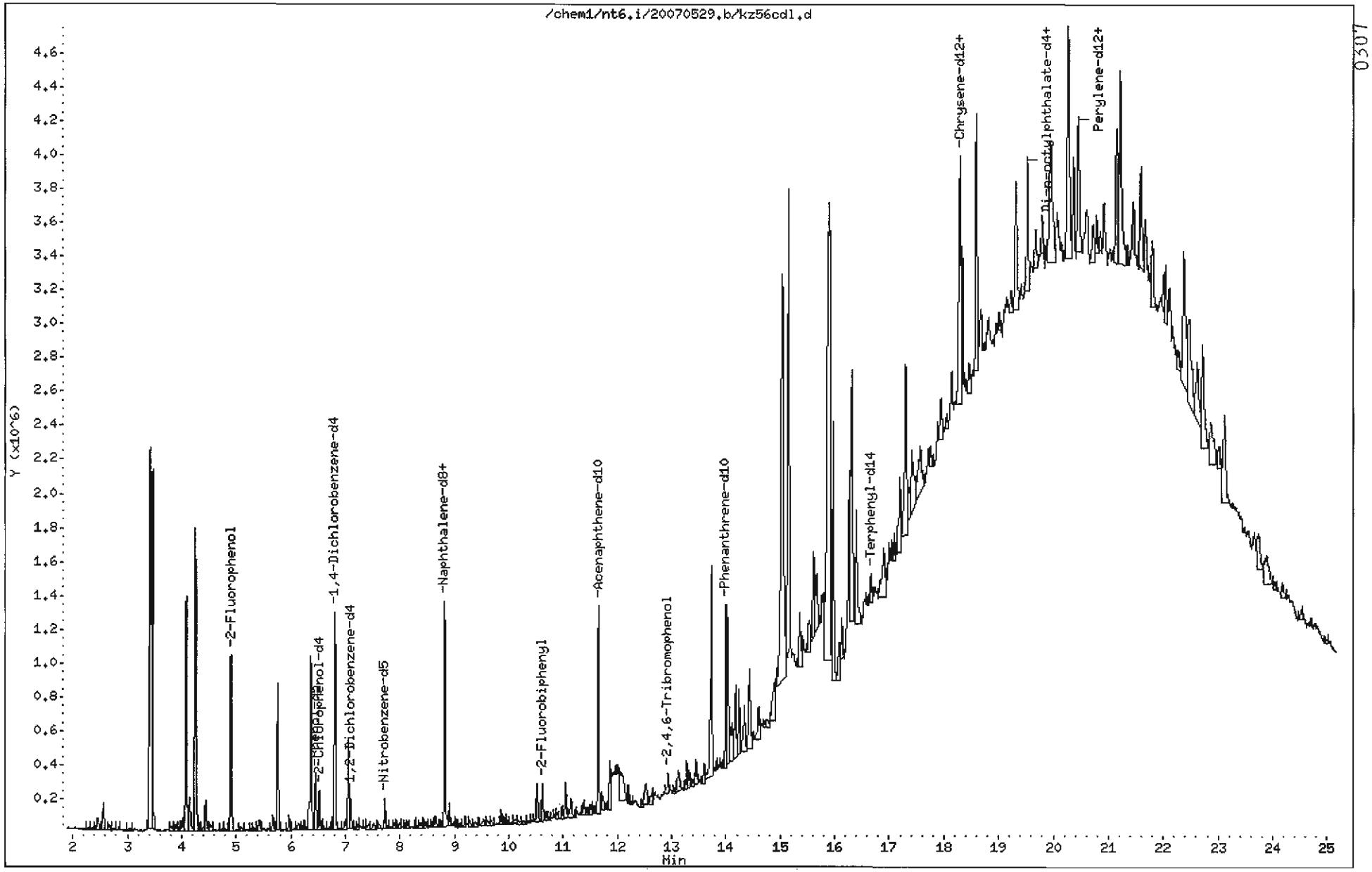
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC13-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1567	984.8	62.86	11-84
$ 2 Phenol-d5	1567	1095	69.87	25-86
$ 5 2-Chlorophenol-d4	1567	1066	68.07	23-91
$ 10 1,2-Dichlorobenzen	1044	656.0	62.81	24-90
$ 18 Nitrobenzene-d5	1044	753.2	72.11	26-88
$ 36 2-Fluorobiphenyl	1044	741.1	70.96	34-91
$ 55 2,4,6-Tribromophen	1567	1148	73.26	25-107
$ 66 Terphenyl-d14	1044	751.7	71.97	22-100

Data File: /chem1/nt6.i/20070529.b/kz56cd1.d
Date : 29-MAY-2007 10:26
Client ID: Y3-RC13-S
Sample Info: KZ56C,5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



0307

Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

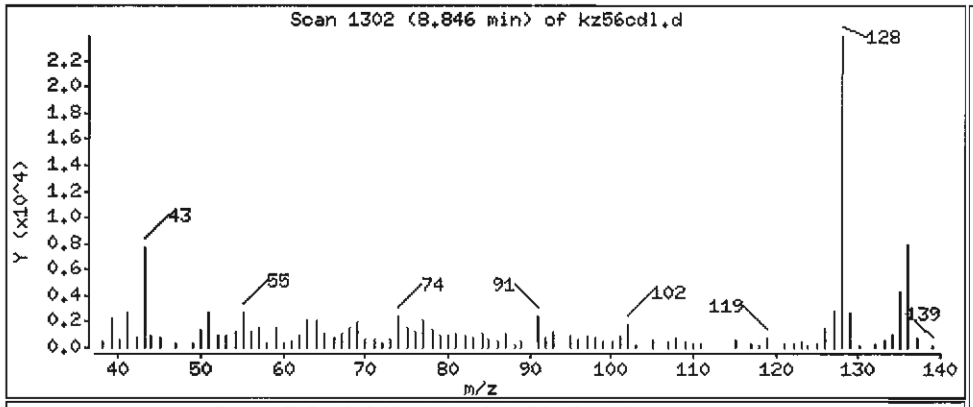
Operator: LJR/VTS

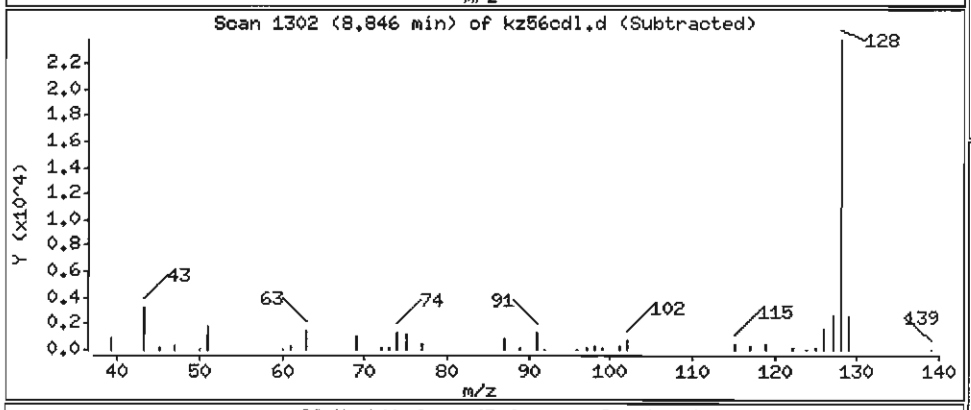
Column phase: ZB-5

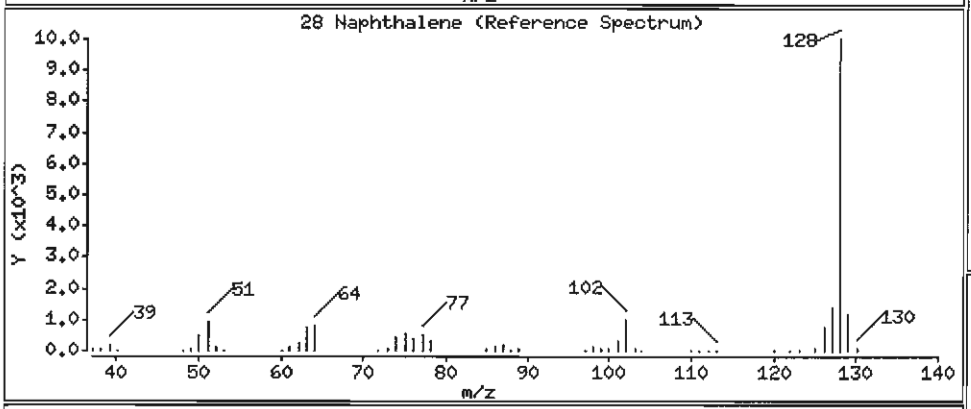
Column diameter: 0.32

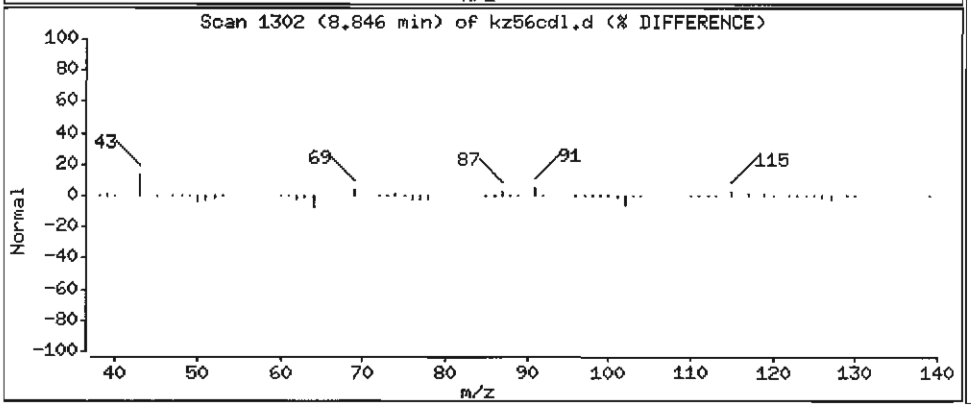
28 Naphthalene

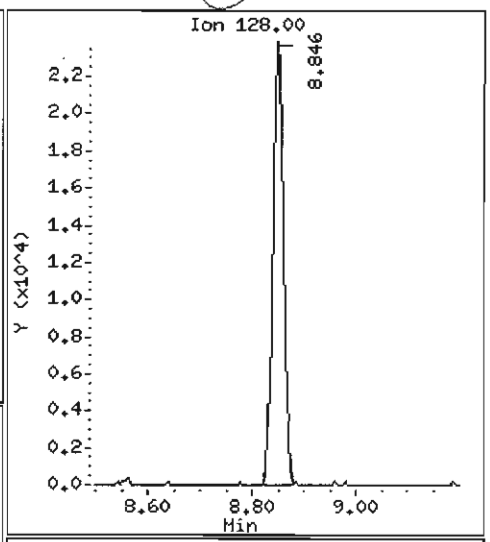
Concentration: 132.6 ug/kg

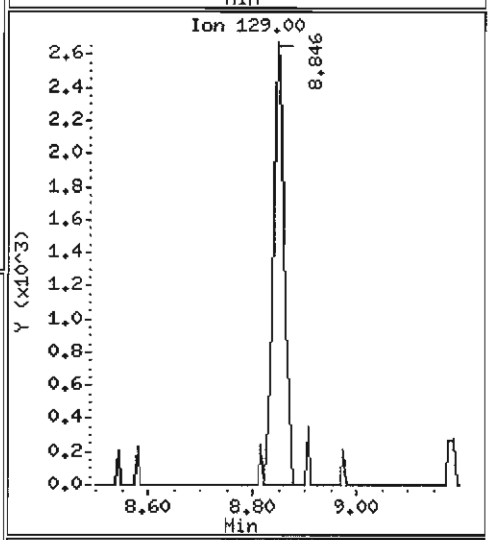


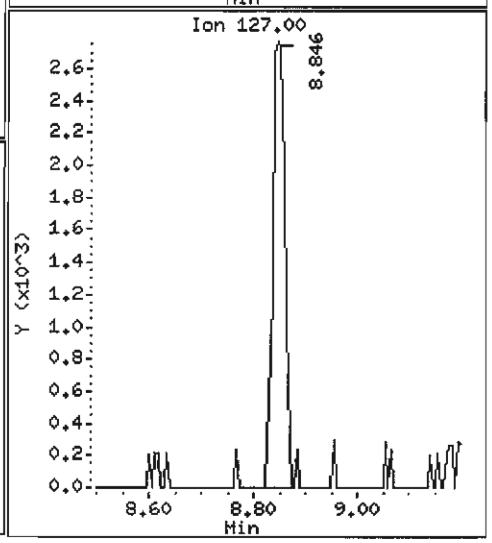












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

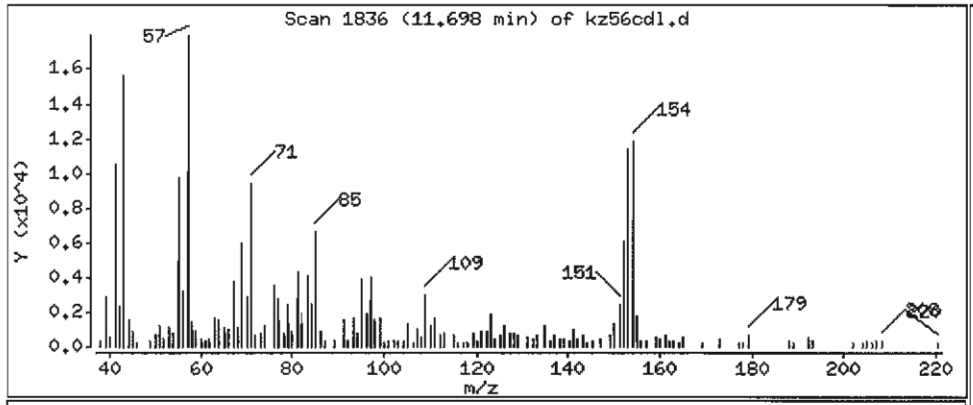
Operator: LJR/VTS

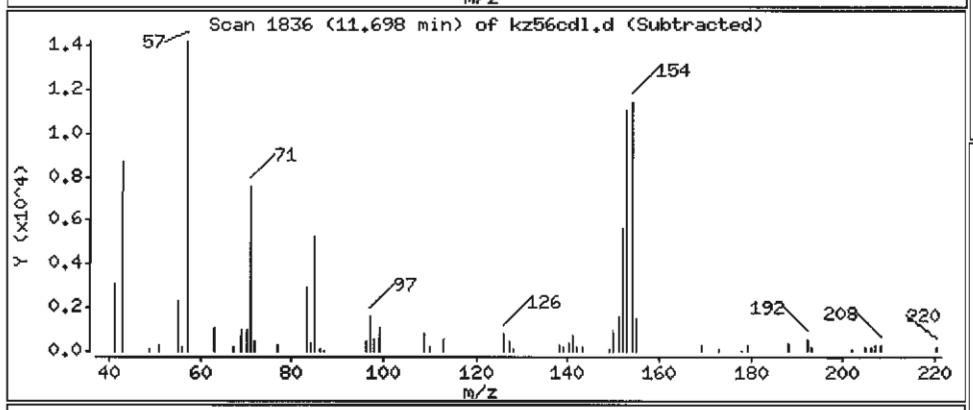
Column phase: ZB-5

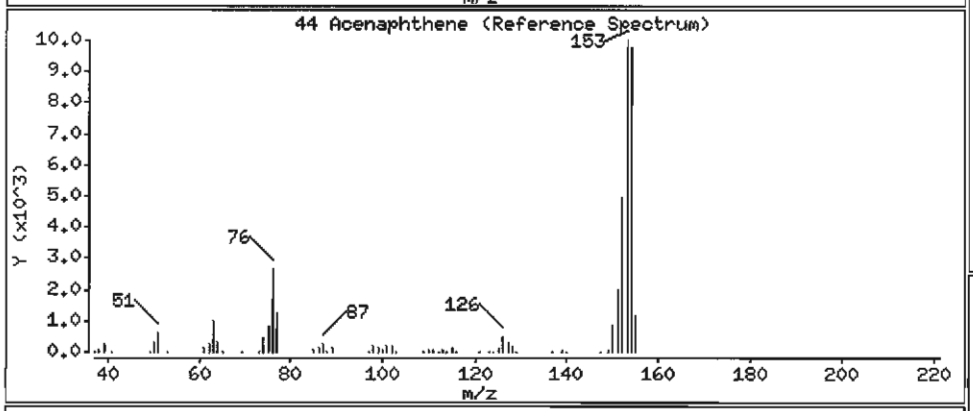
Column diameter: 0.32

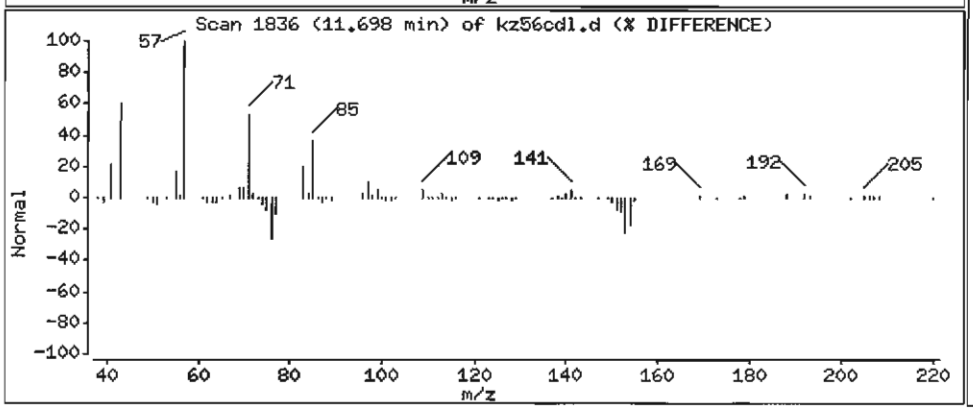
44 Acenaphthene

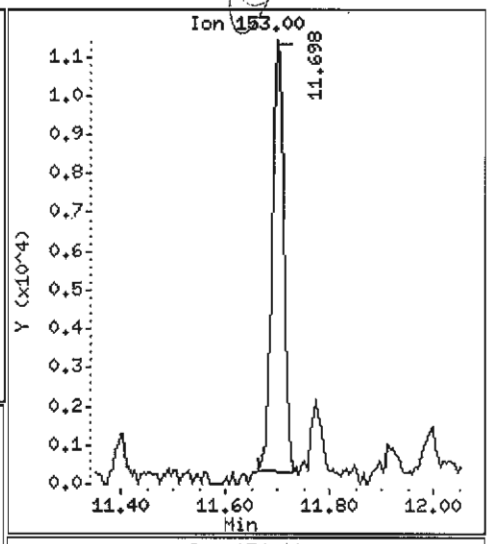
Concentration: 124.7 ug/kg

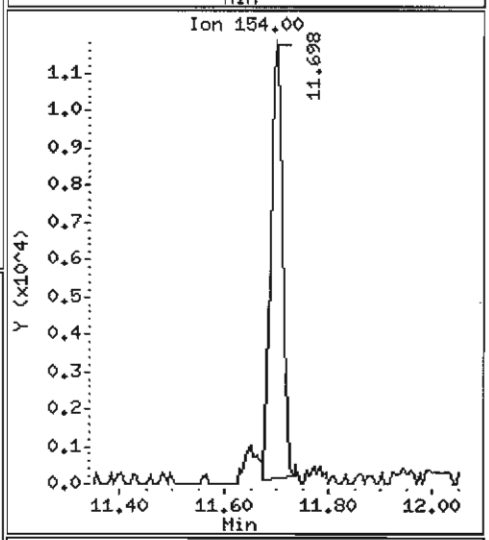


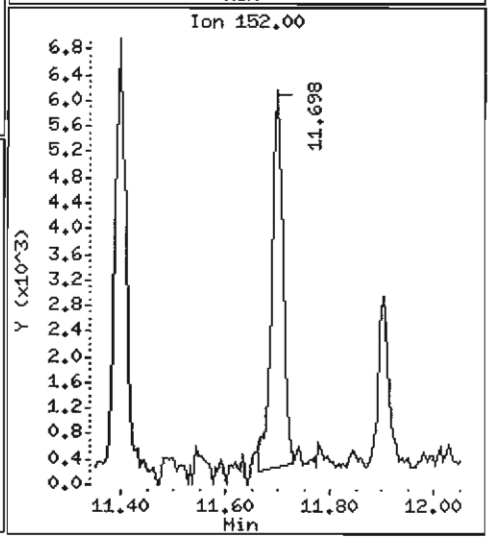












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

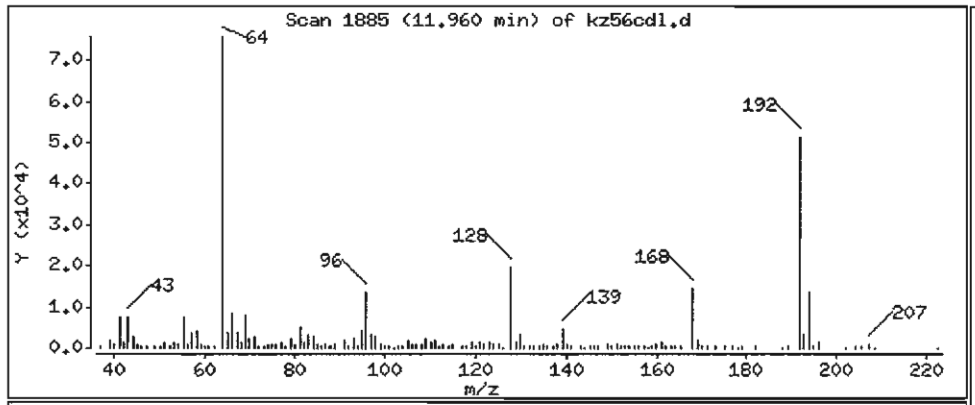
Operator: LJR/VTS

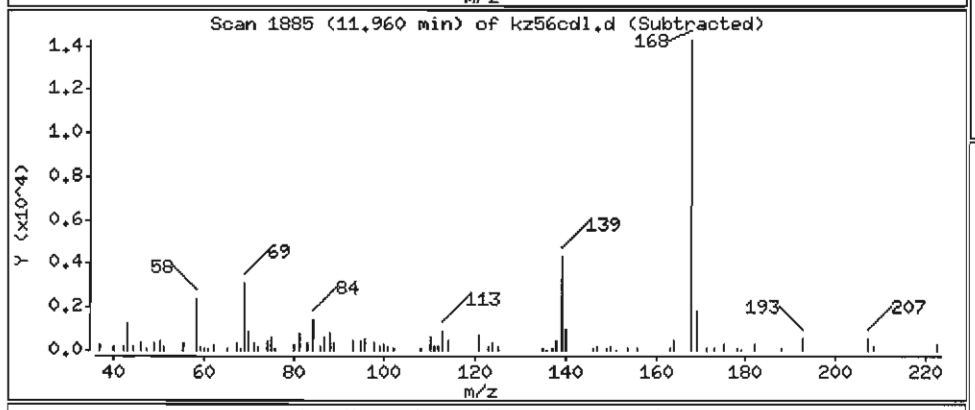
Column phase: ZB-5

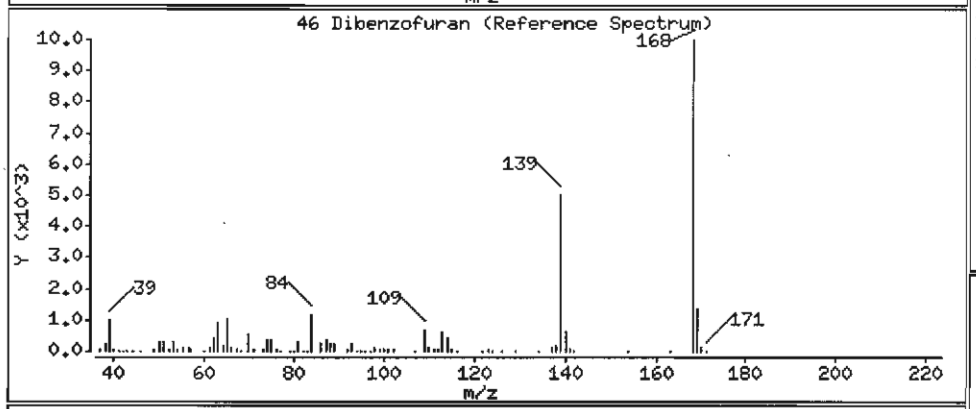
Column diameter: 0.32

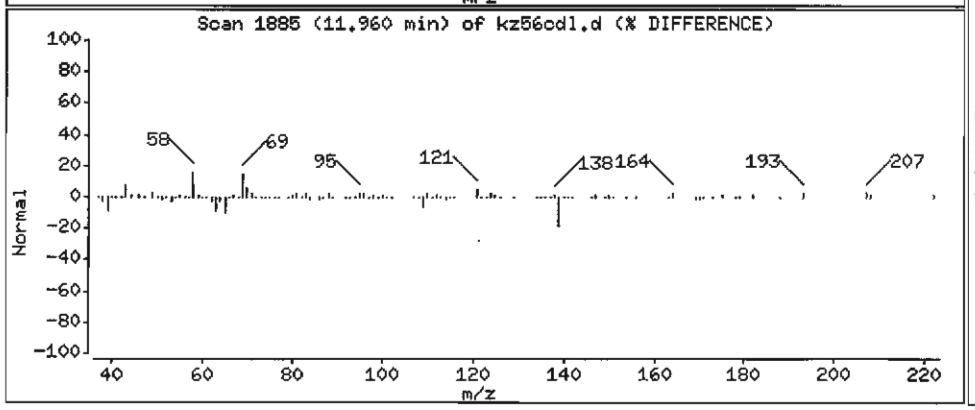
46 Dibenzofuran

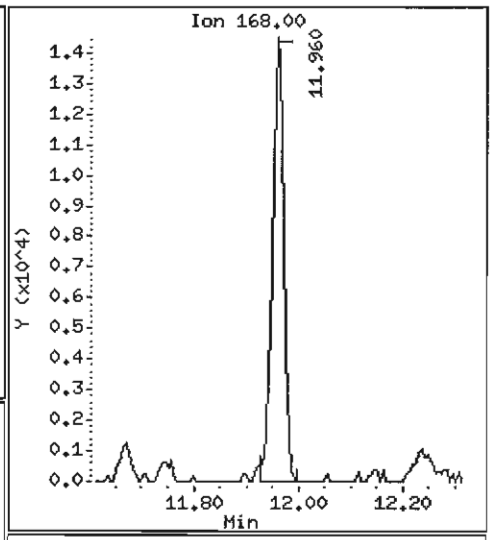
Concentration: 118.5 ug/kg

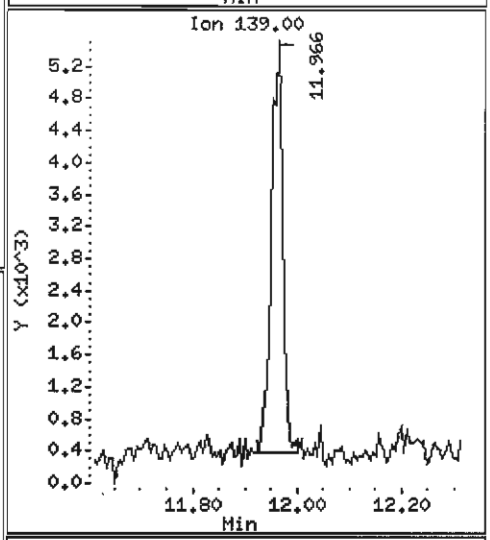


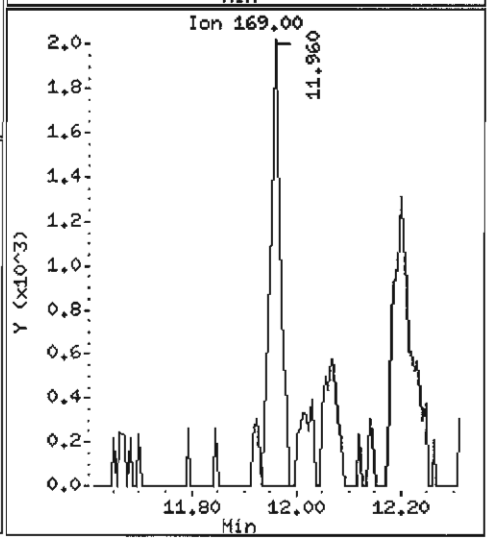












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

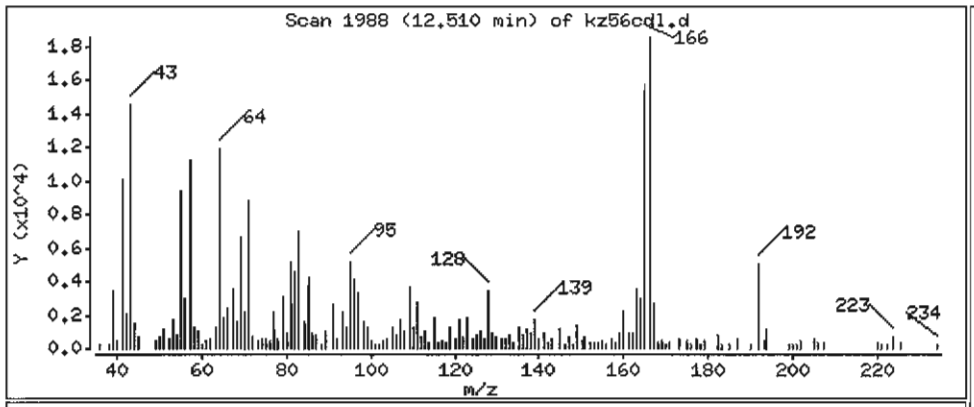
Operator: LJR/VTS

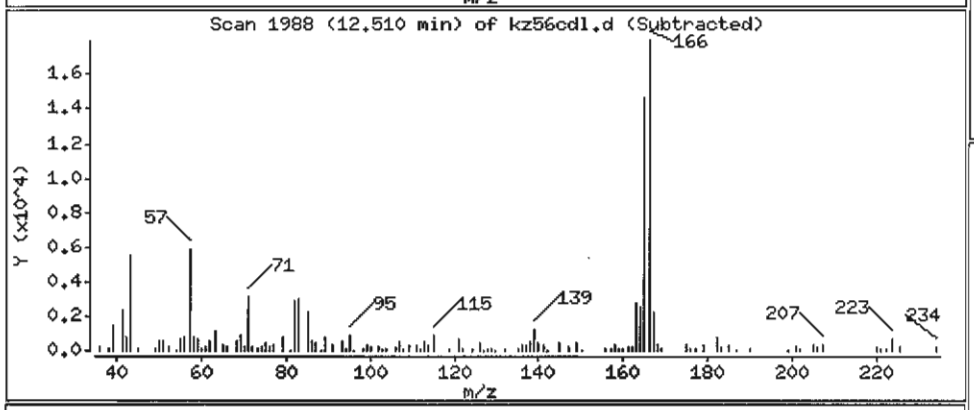
Column phase: ZB-5

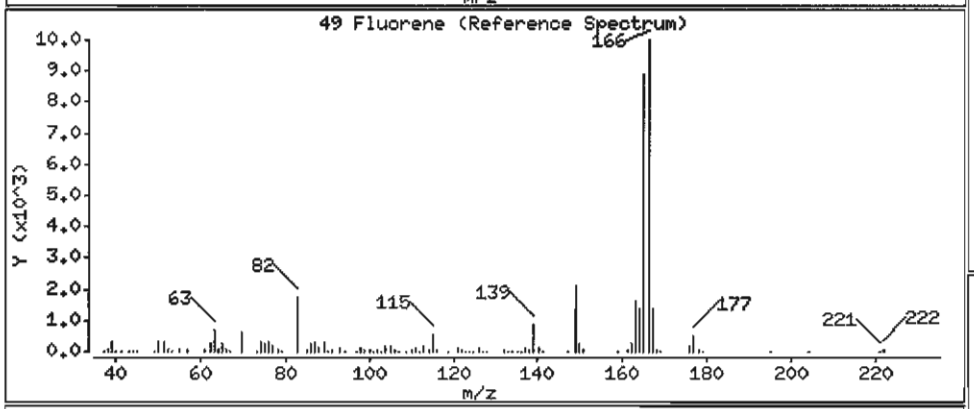
Column diameter: 0.32

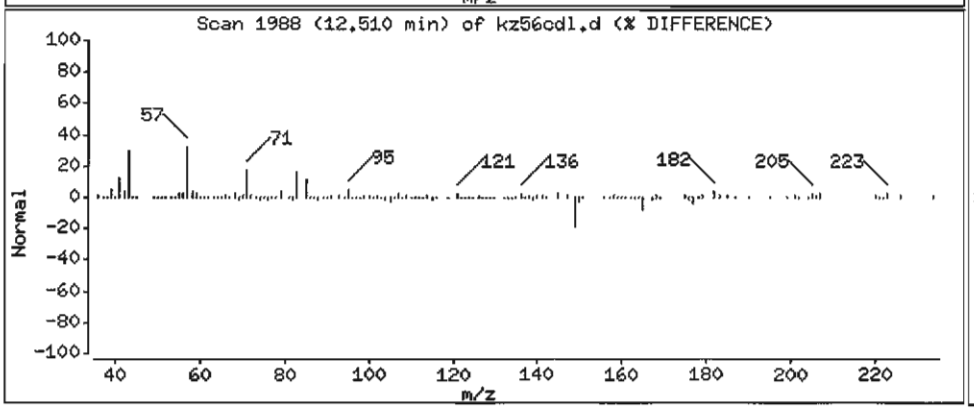
49 Fluorene

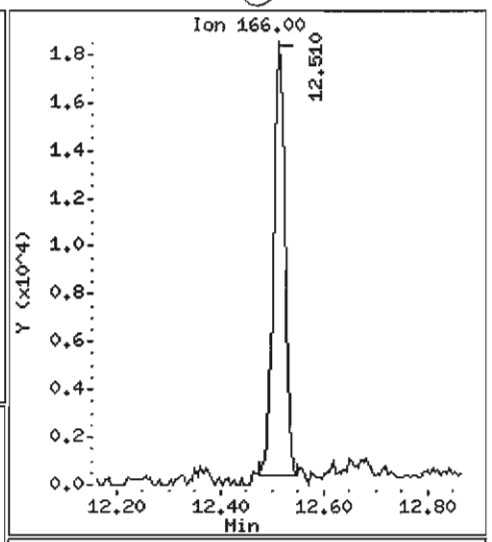
Concentration: 191.3 ug/kg

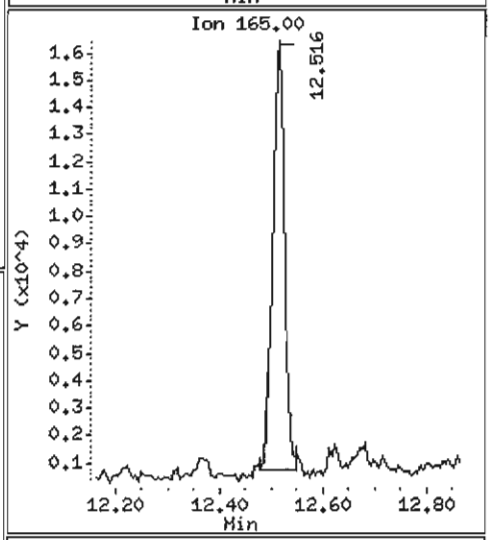


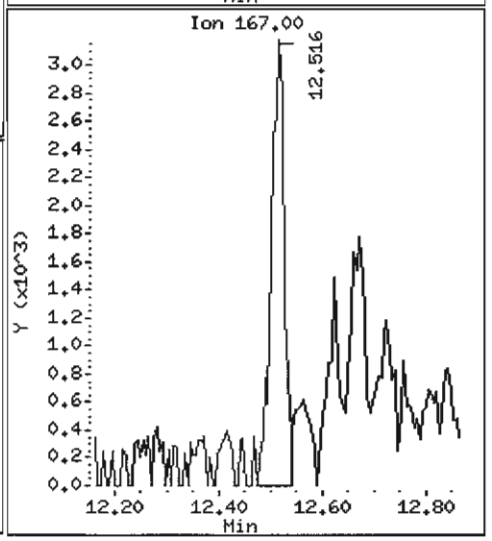












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

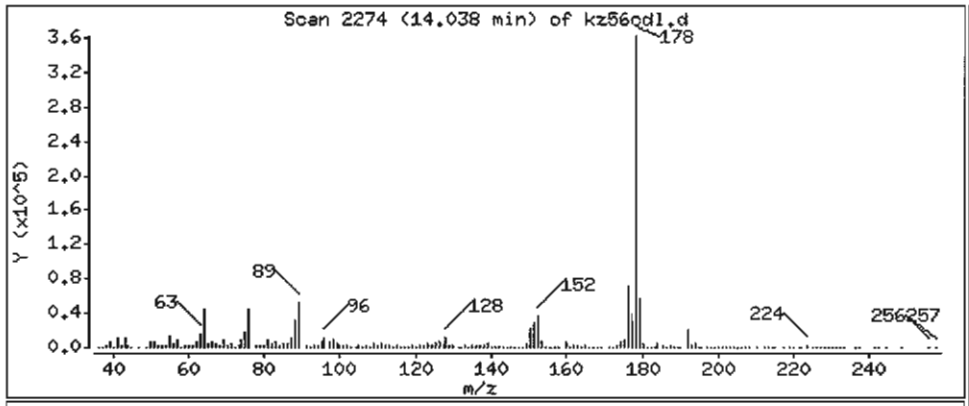
Operator: LJR/VTS

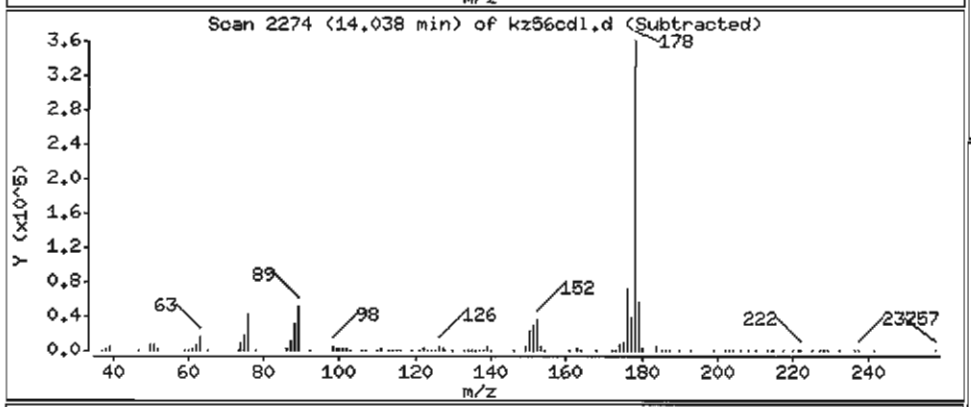
Column phase: ZB-5

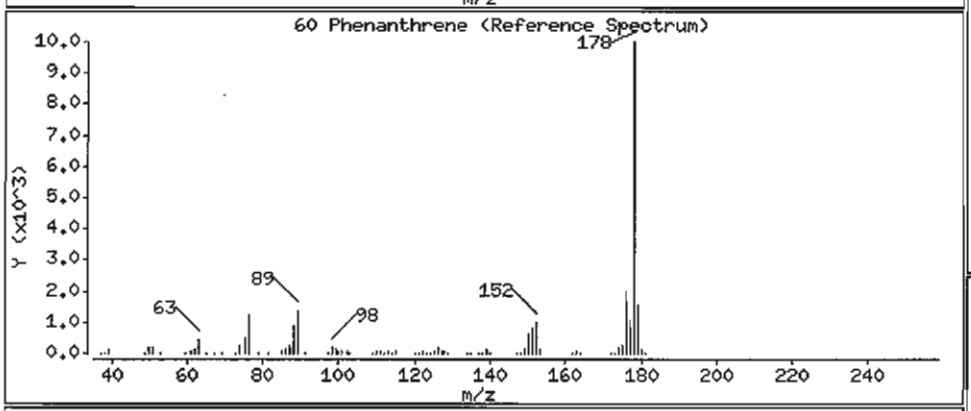
Column diameter: 0.32

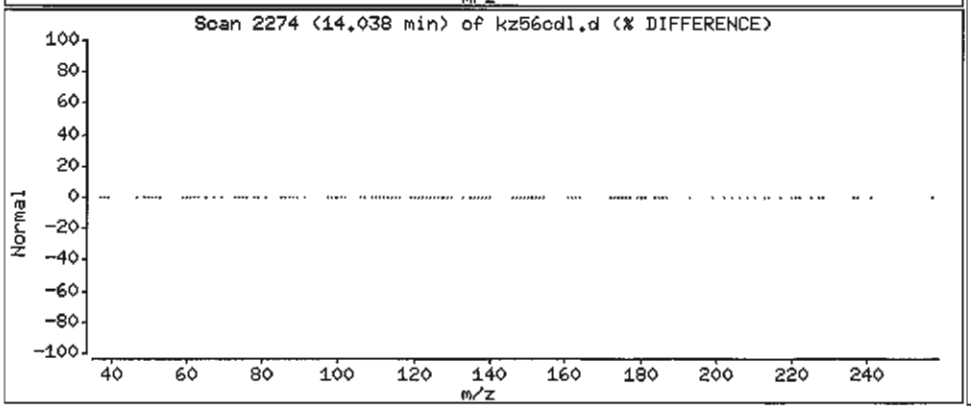
60 Phenanthrene

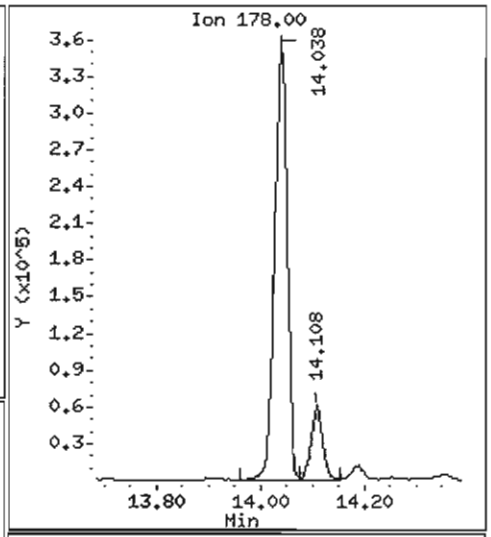
Concentration: 2885 ug/kg

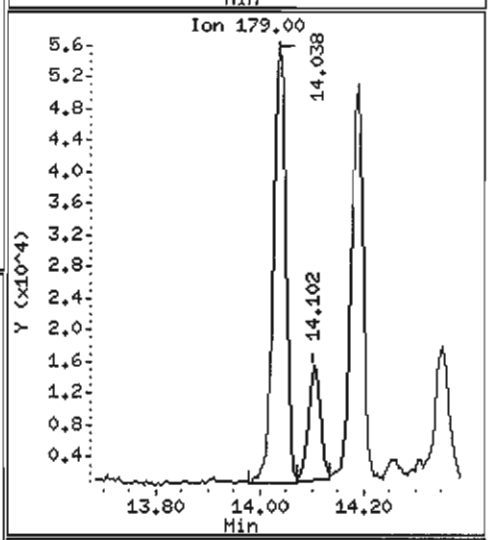


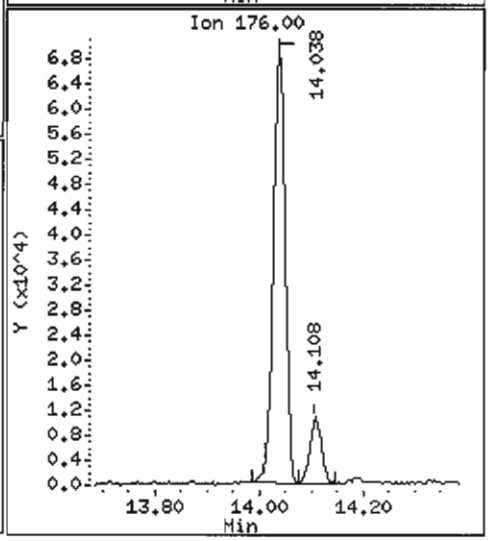












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

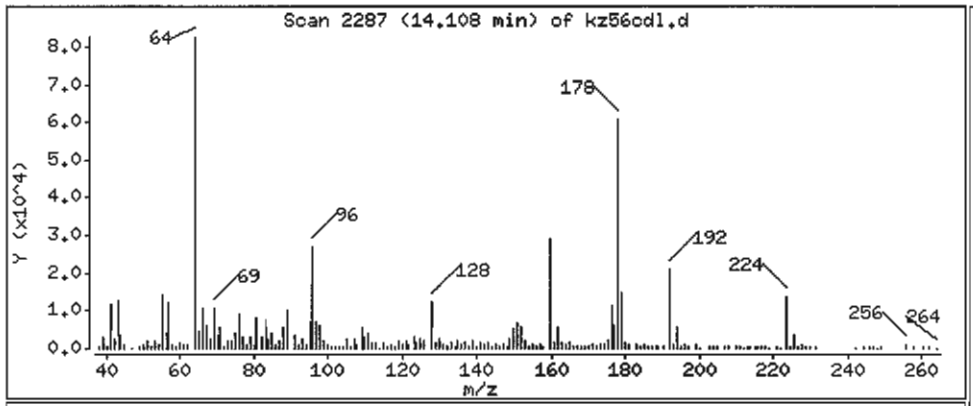
Operator: LJR/VTS

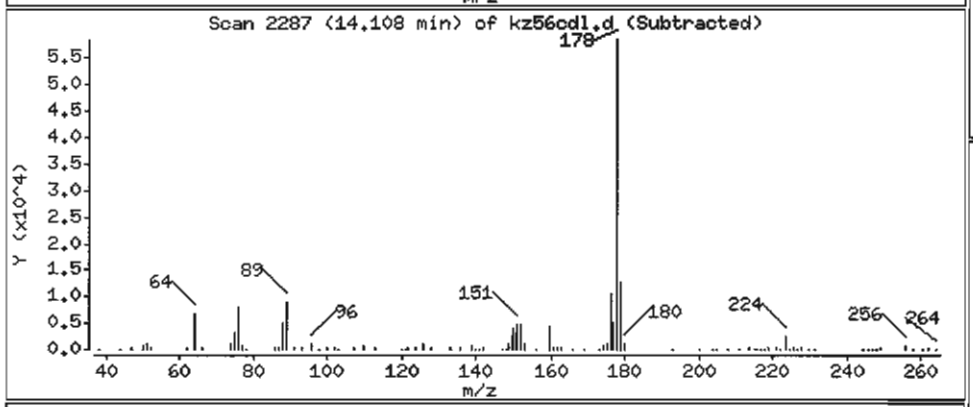
Column phase: ZB-5

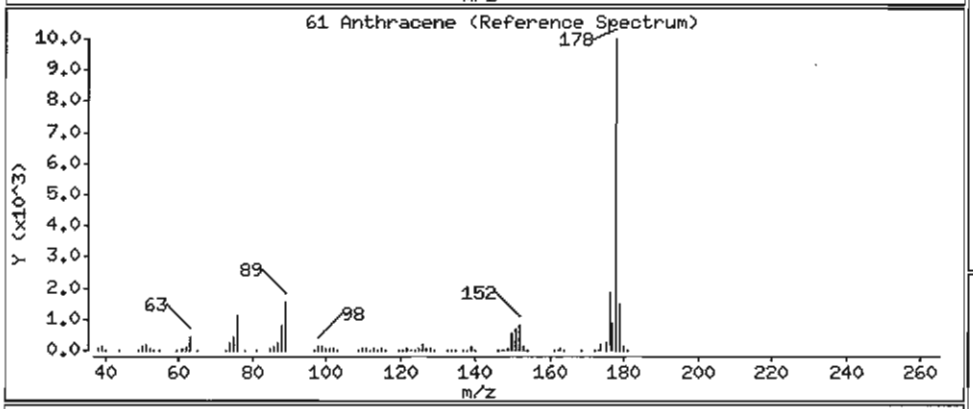
Column diameter: 0.32

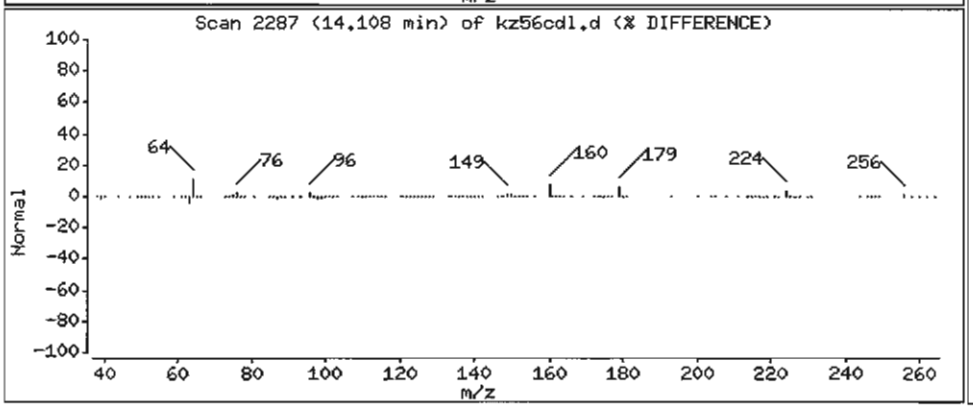
61 Anthracene

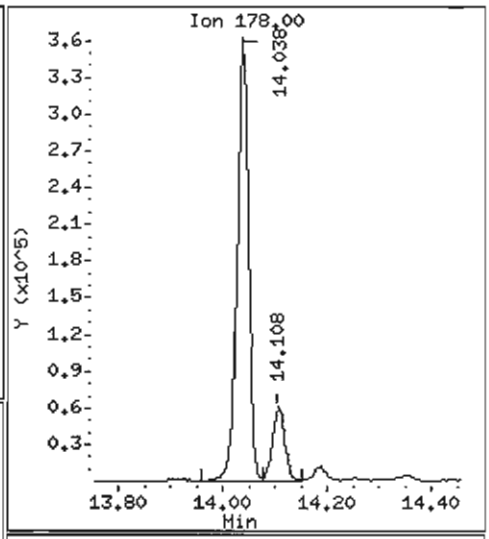
Concentration: 462.5 ug/kg

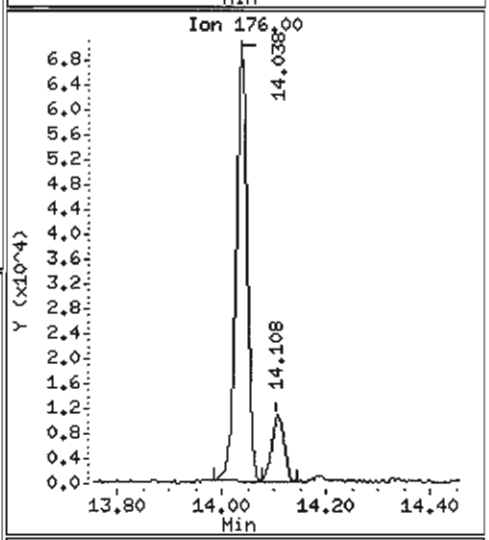


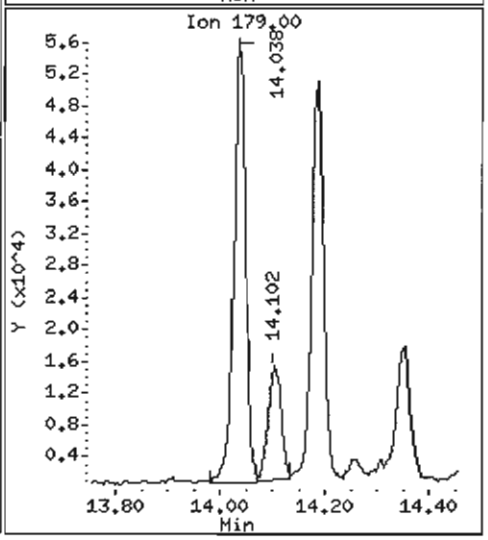












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

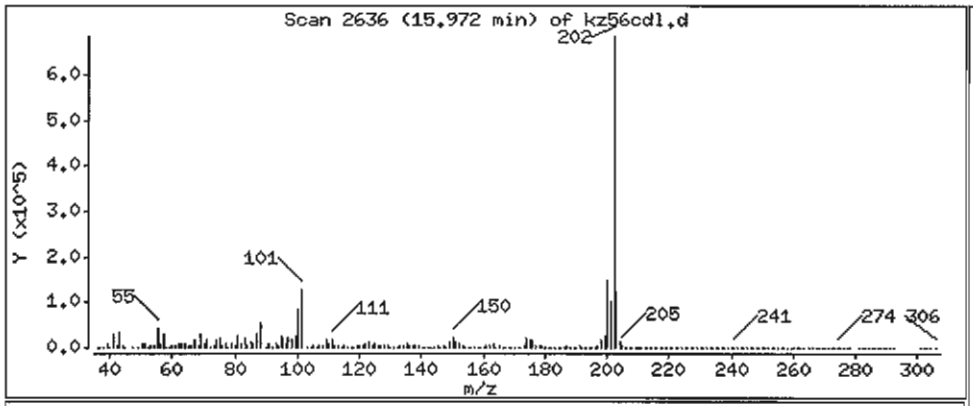
Operator: LJR/VTS

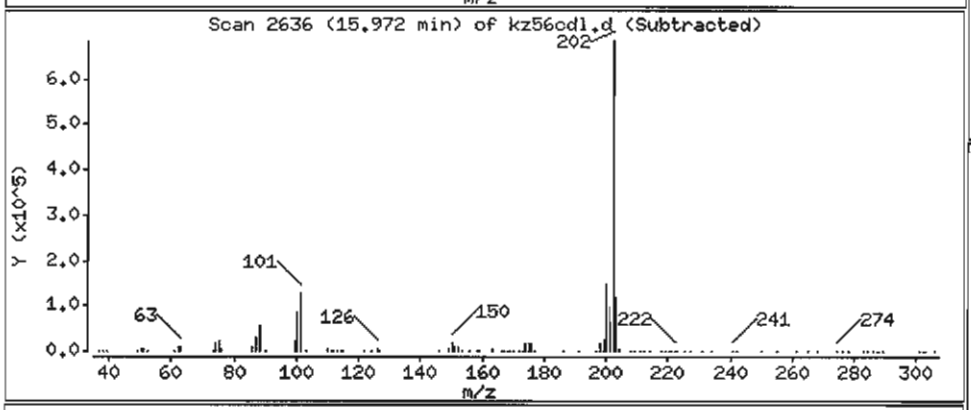
Column phase: ZB-5

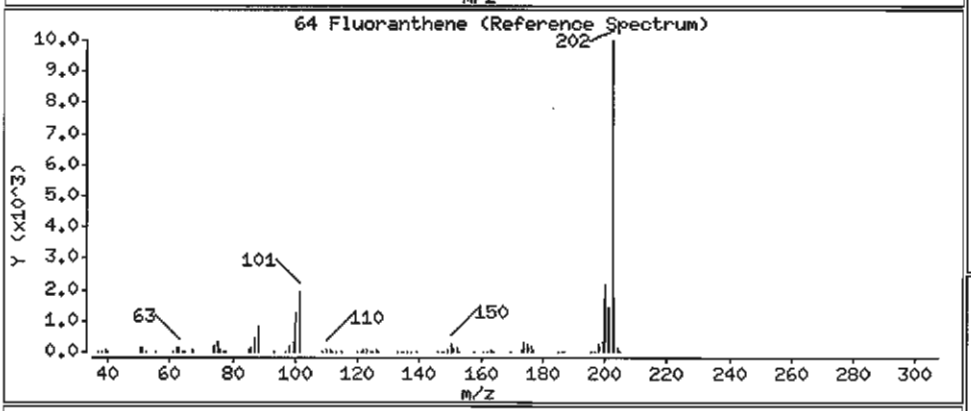
Column diameter: 0.32

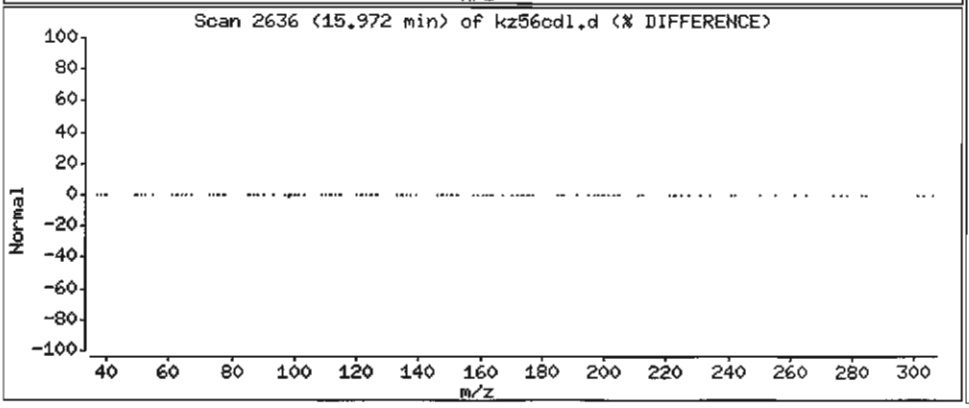
64 Fluoranthene

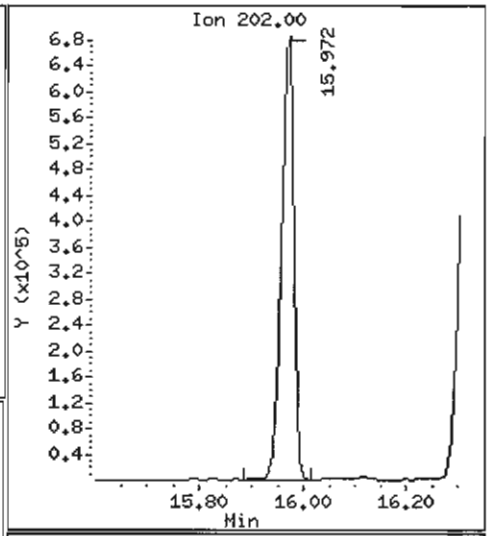
Concentration: 6236 ug/kg

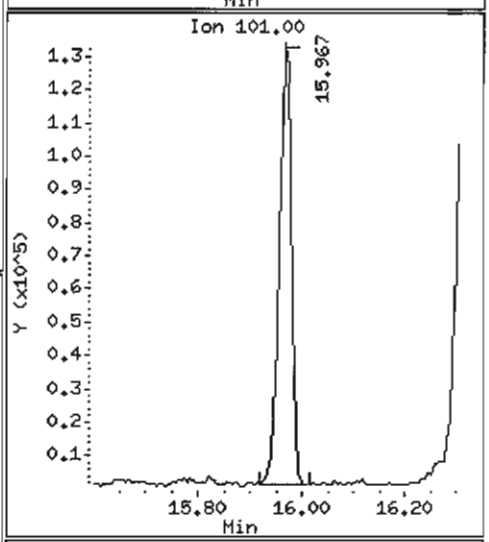


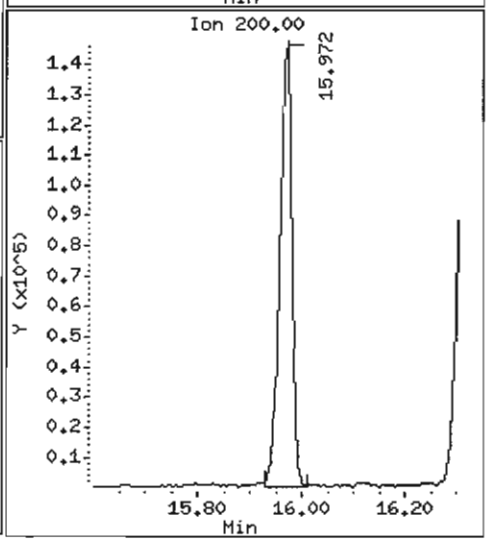












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

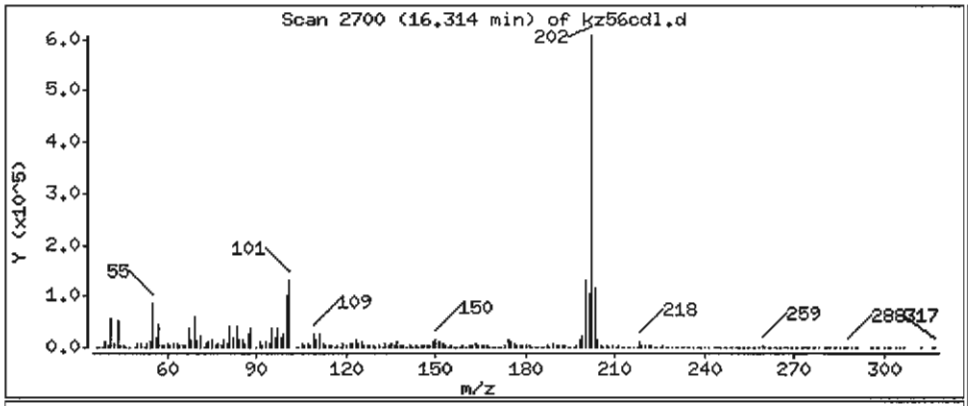
Operator: LJR/VTS

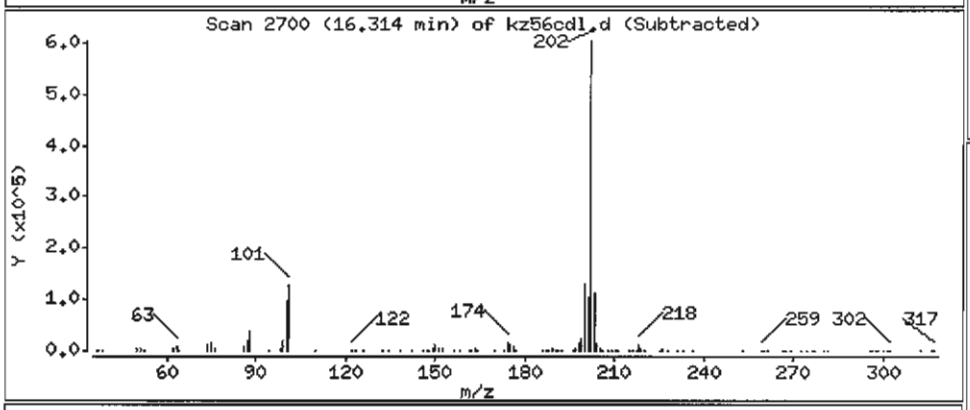
Column phase: ZB-5

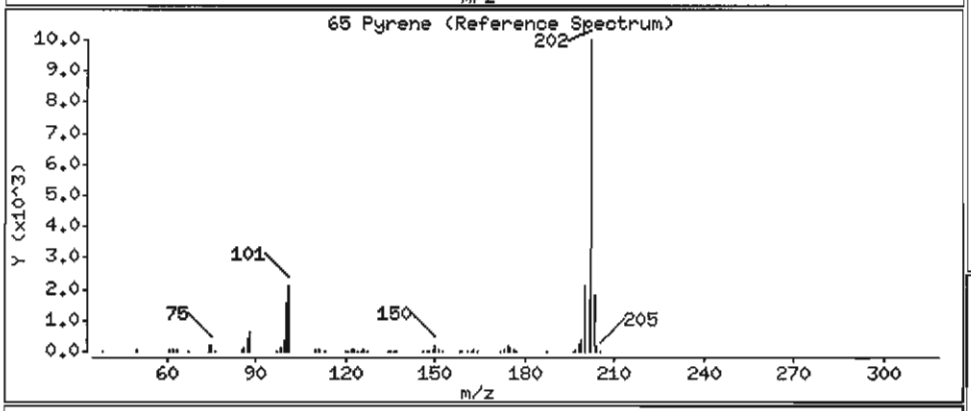
Column diameter: 0.32

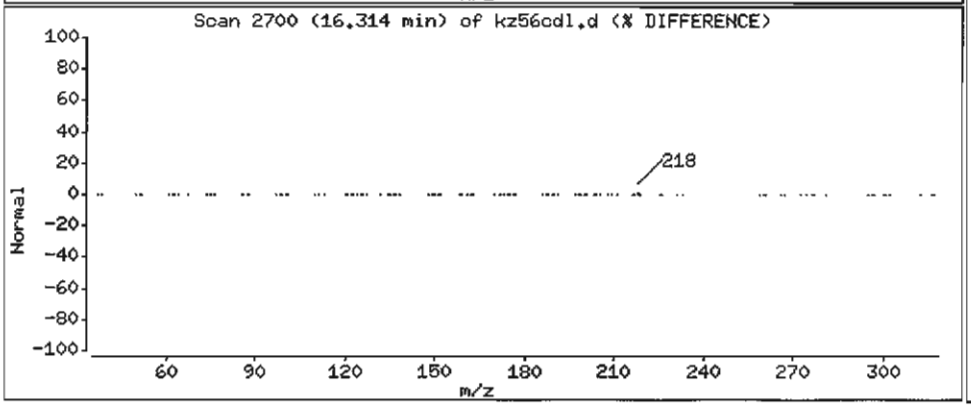
65 Pyrene

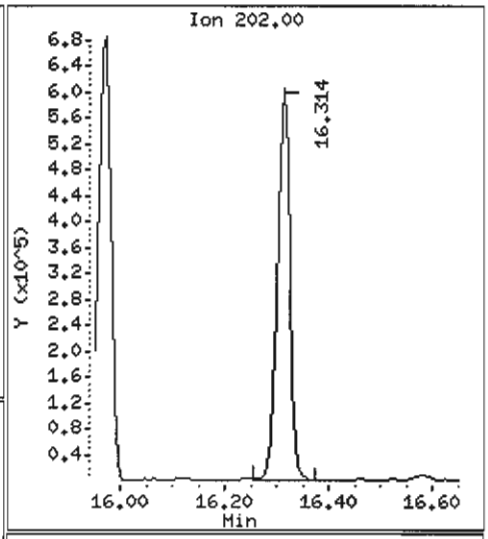
Concentration: 5270 ug/kg

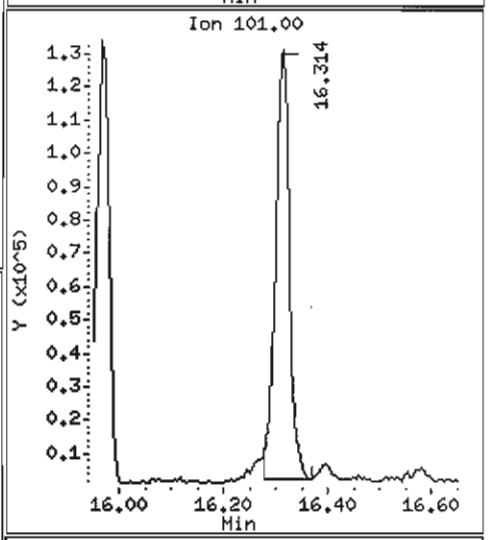


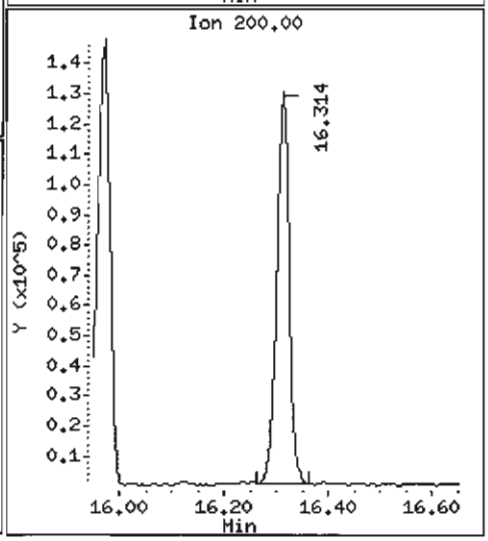












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

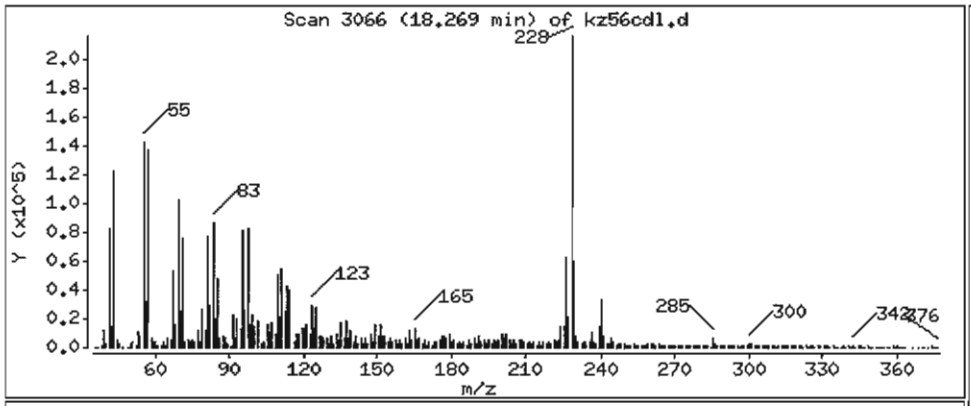
Operator: LJR/VTS

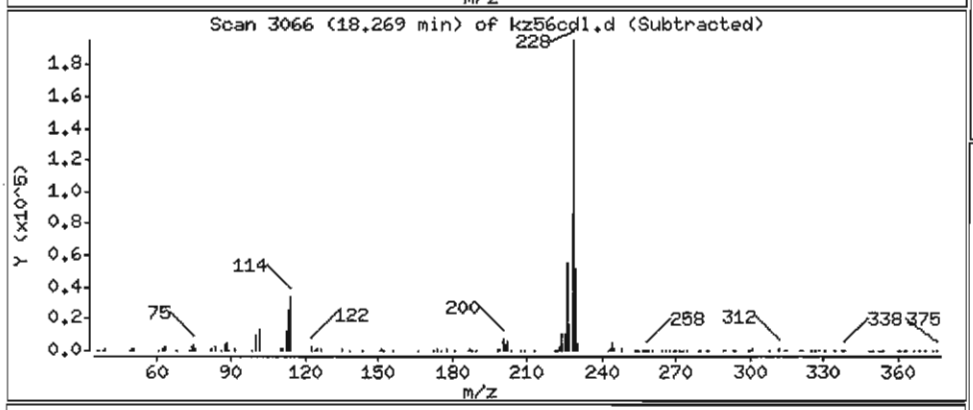
Column phase: ZB-5

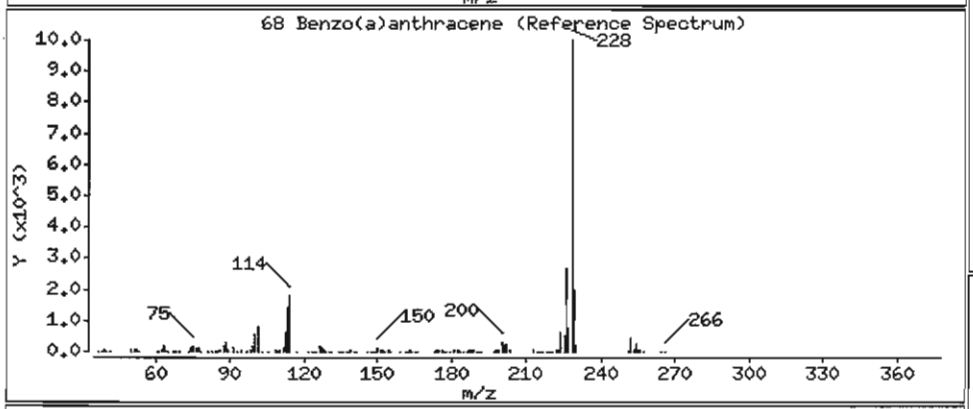
Column diameter: 0.32

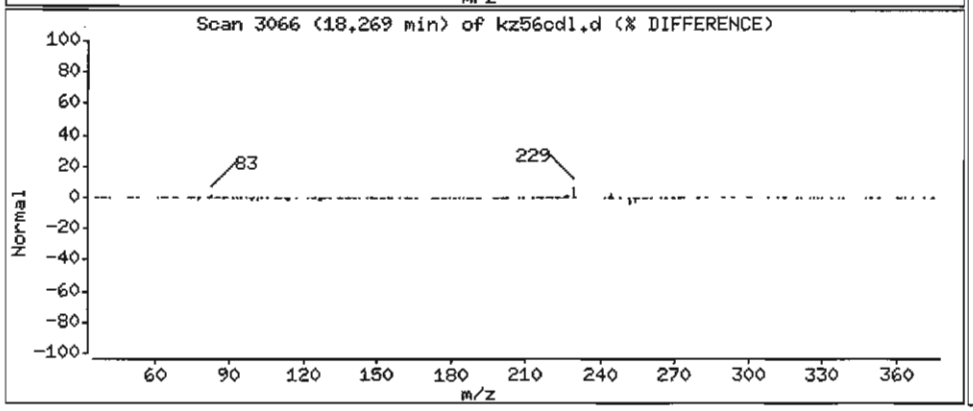
68 Benzo(a)anthracene

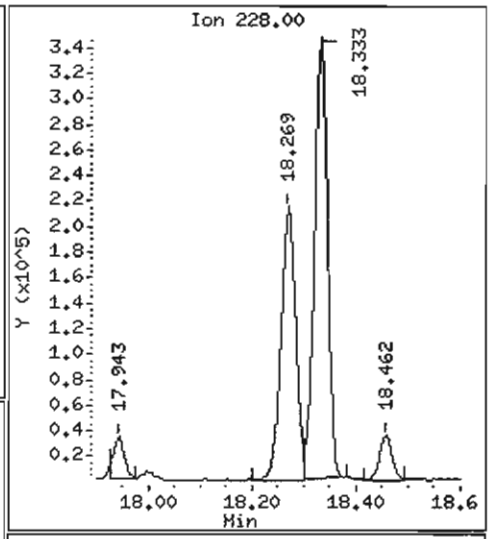
Concentration: 2502 ug/kg

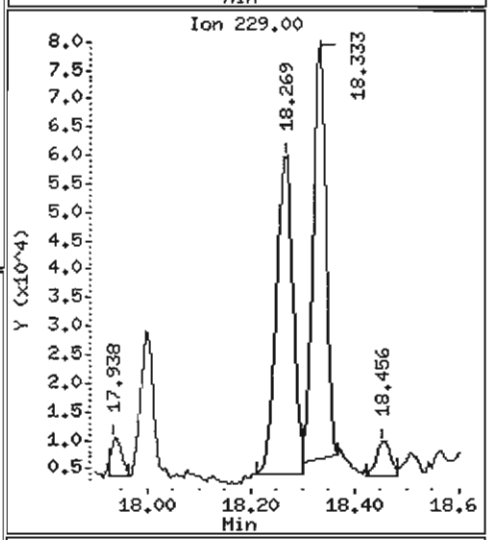


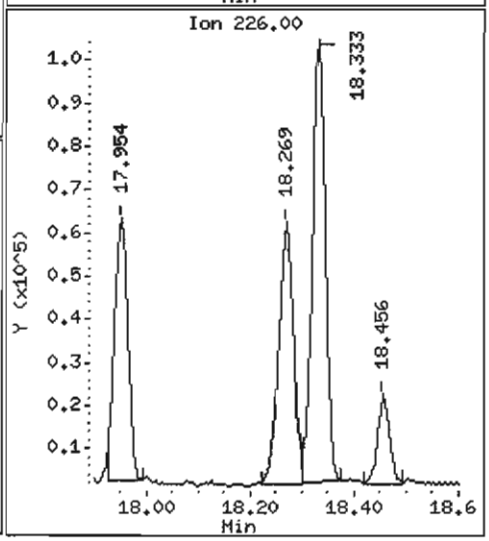












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

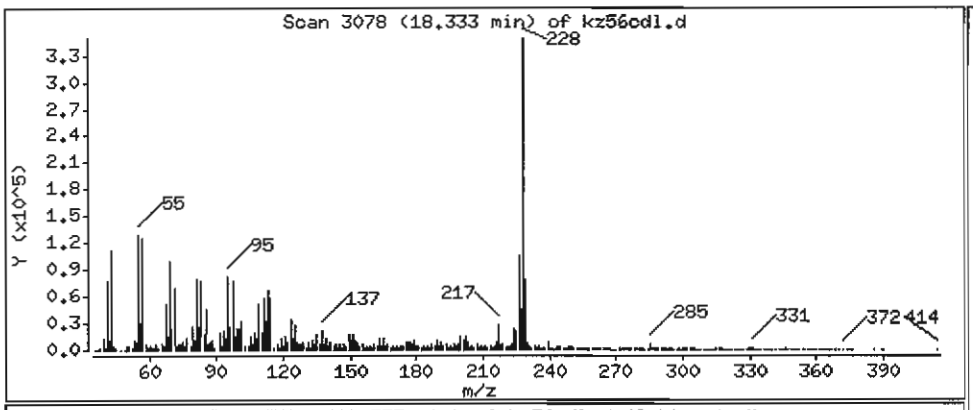
Operator: LJR/VTS

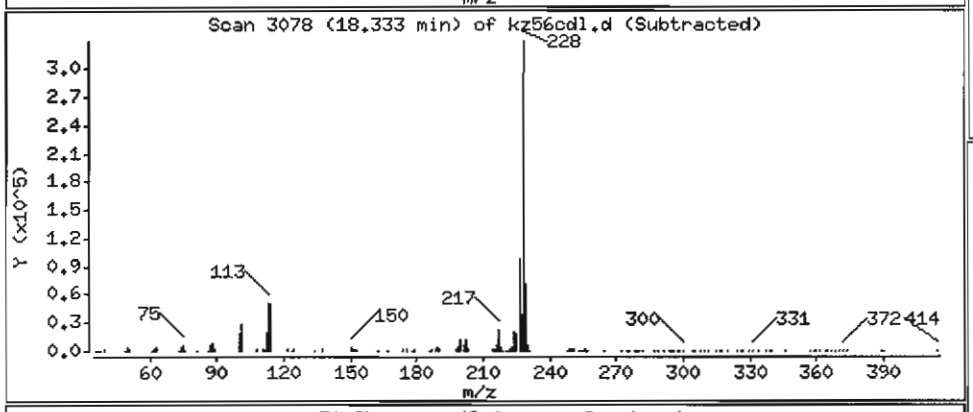
Column phase: ZB-5

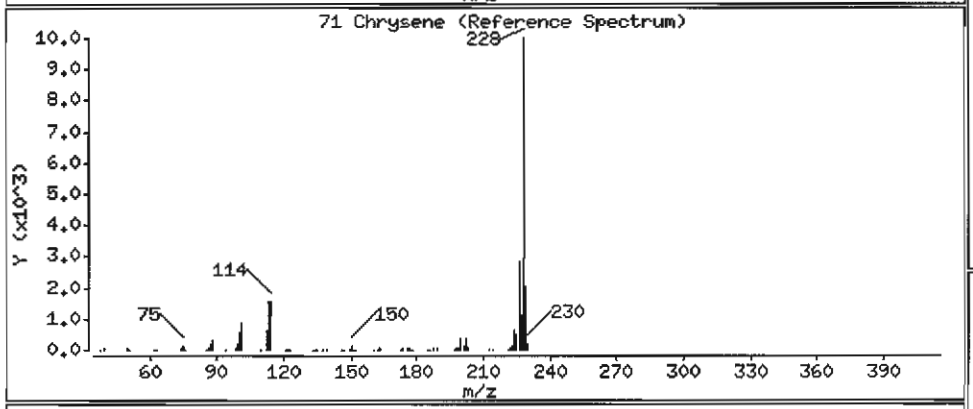
Column diameter: 0.32

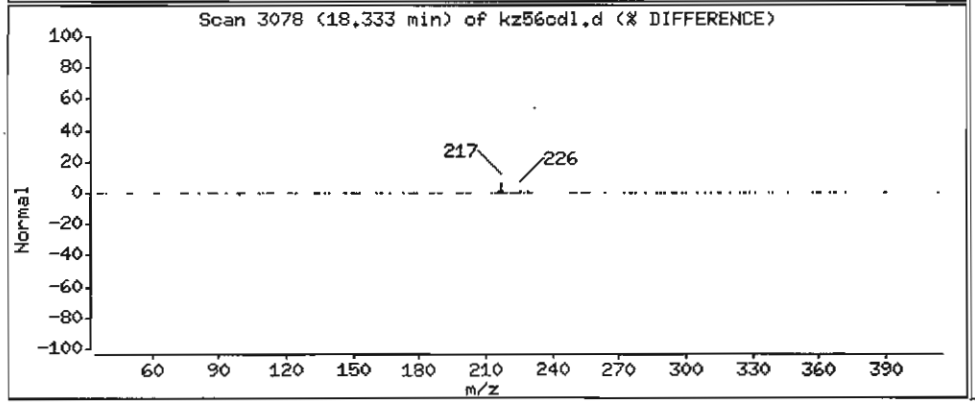
71 Chrysene

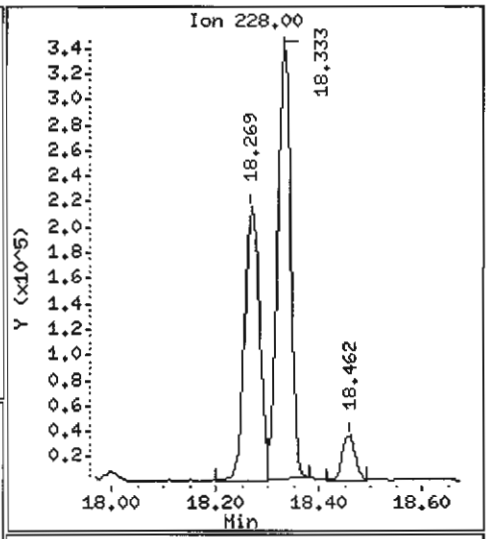
Concentration: 3472 ug/kg

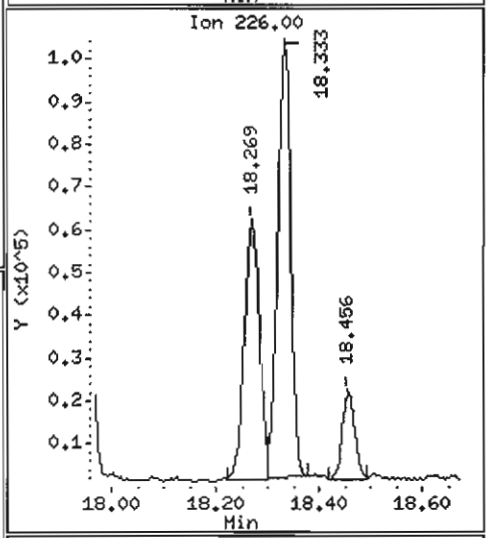


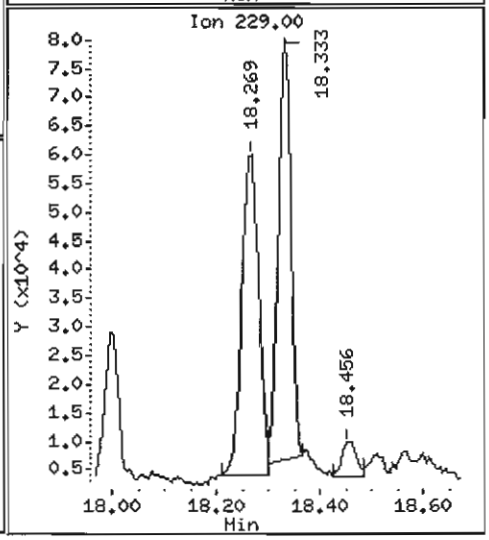












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

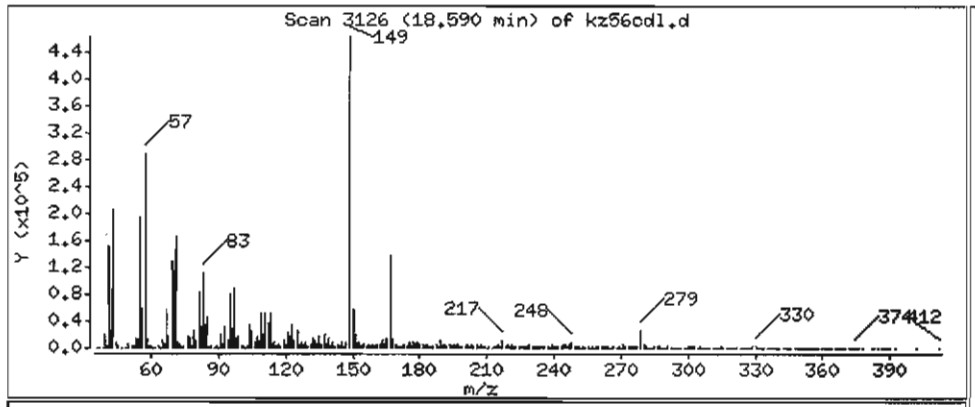
Operator: LJR/VTS

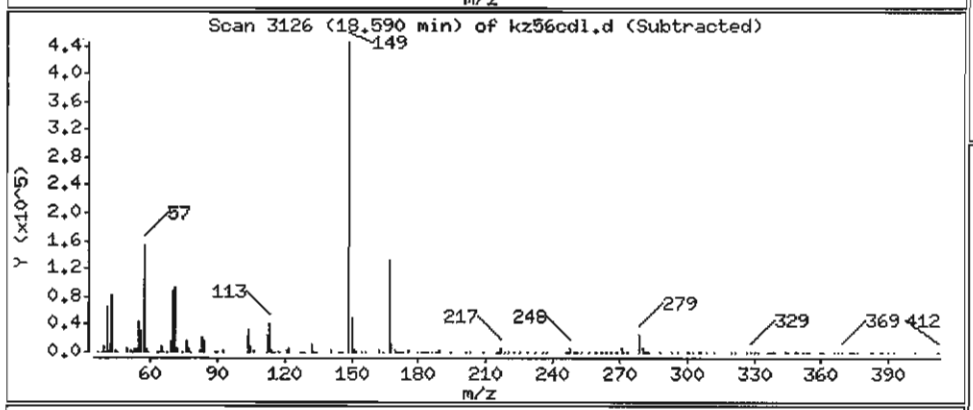
Column phase: ZB-5

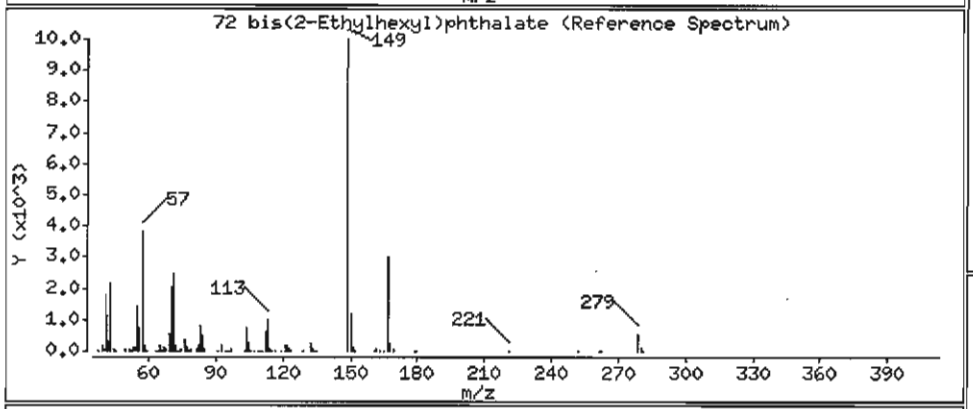
Column diameter: 0.32

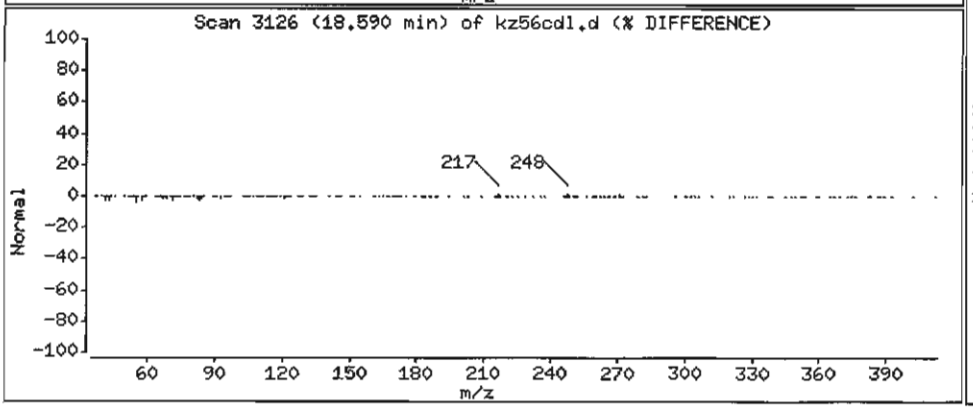
72 bis(2-Ethylhexyl)phthalate

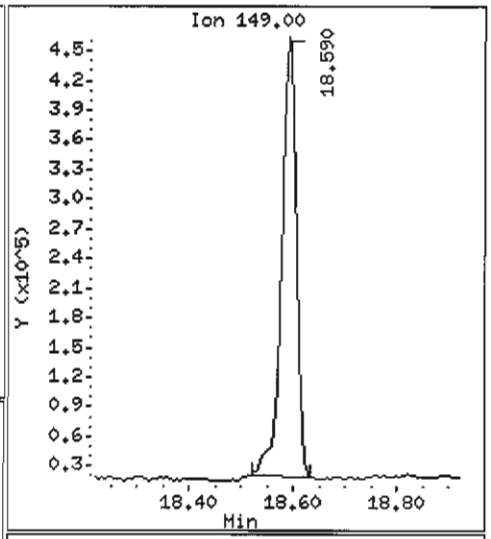
Concentration: 7262 ug/kg

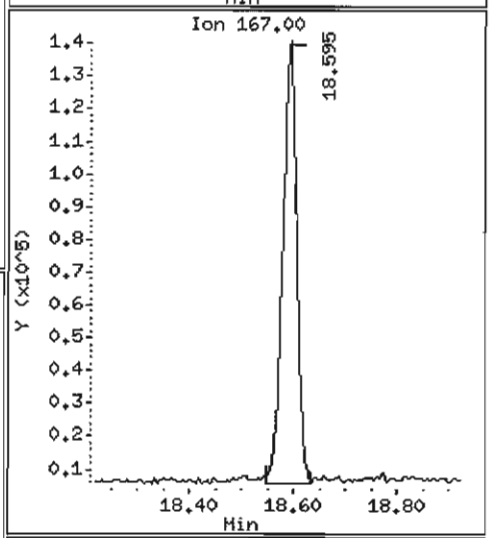


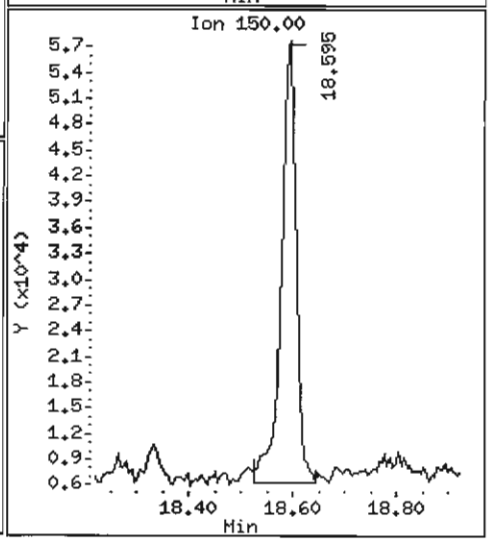












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

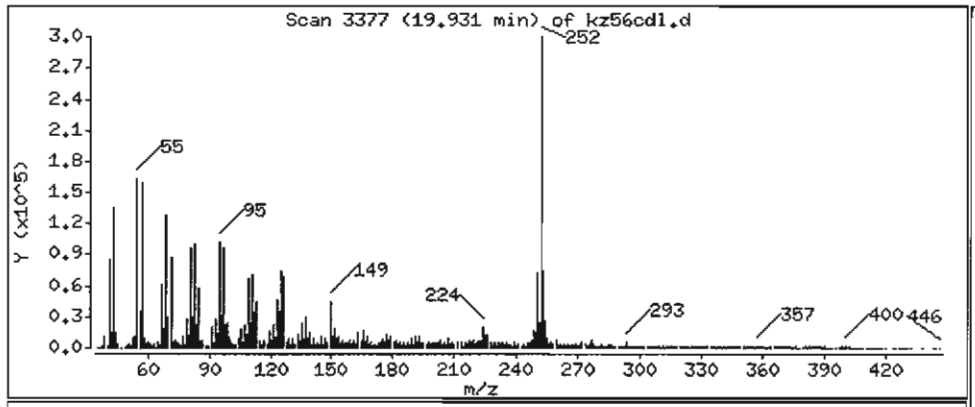
Operator: LJR/VTS

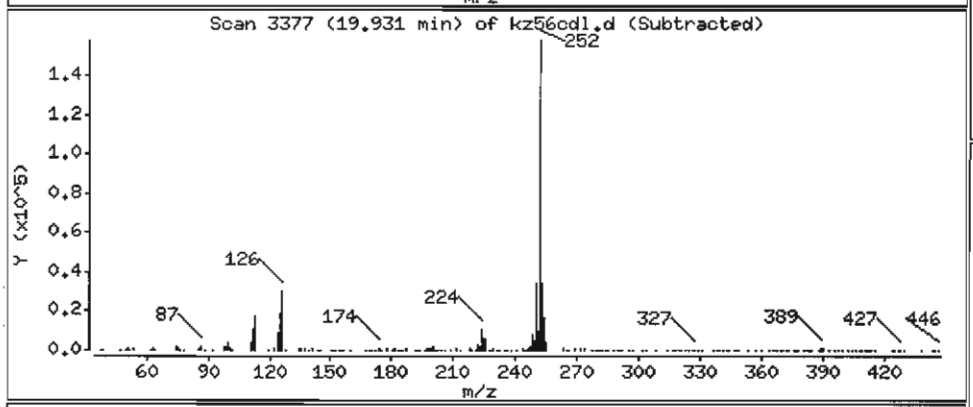
Column phase: ZB-5

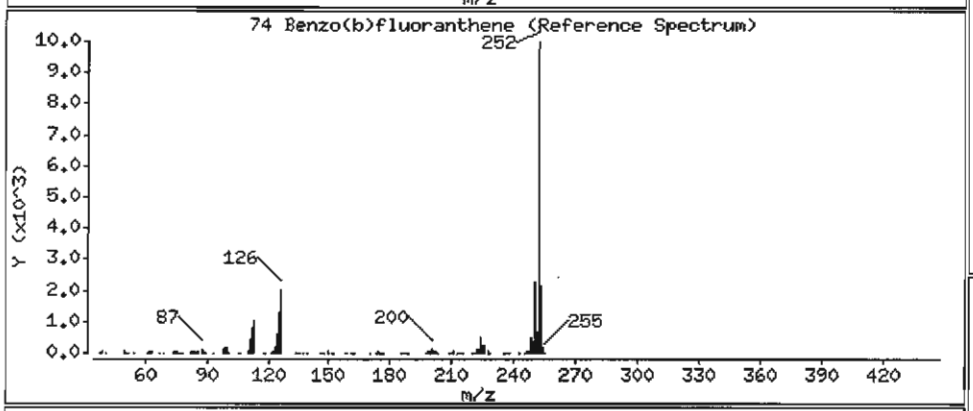
Column diameter: 0.32

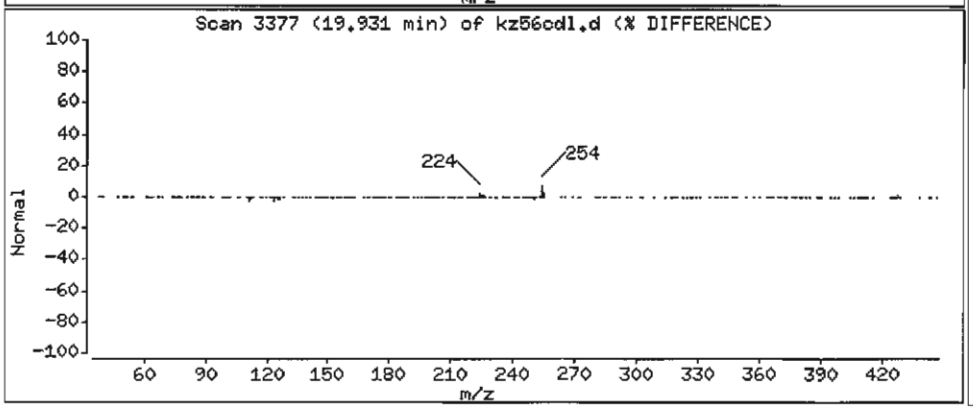
74 Benzo(b)fluoranthene

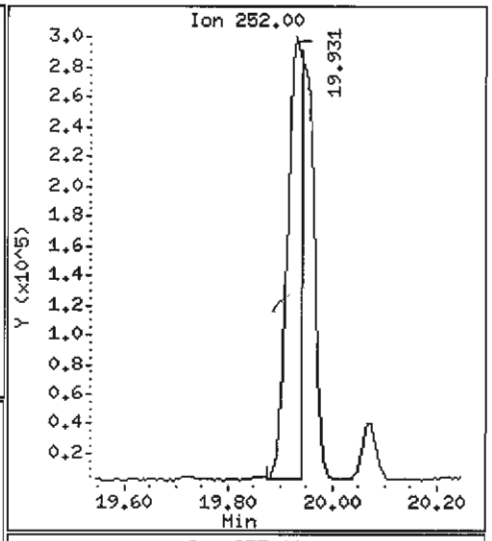
Concentration: 3688 ug/kg

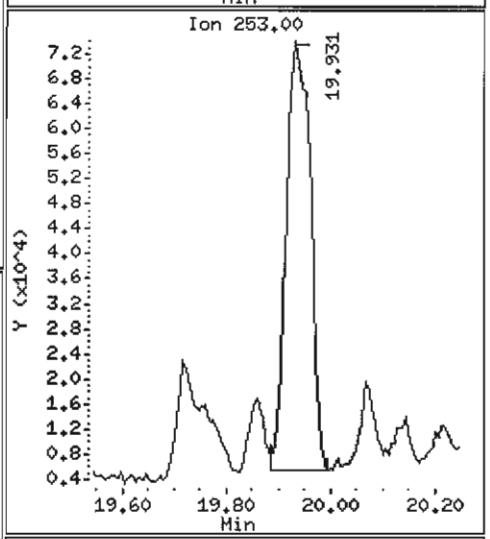


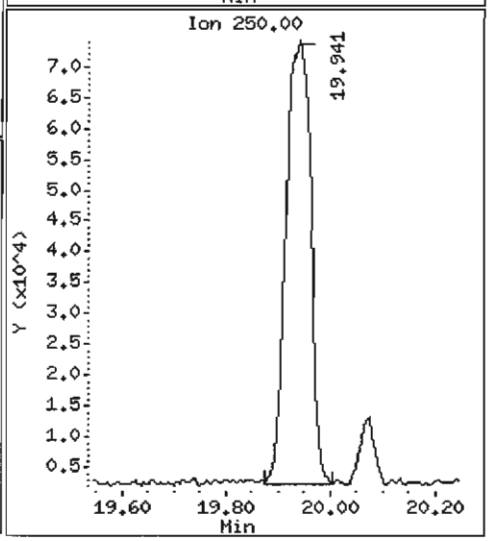












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

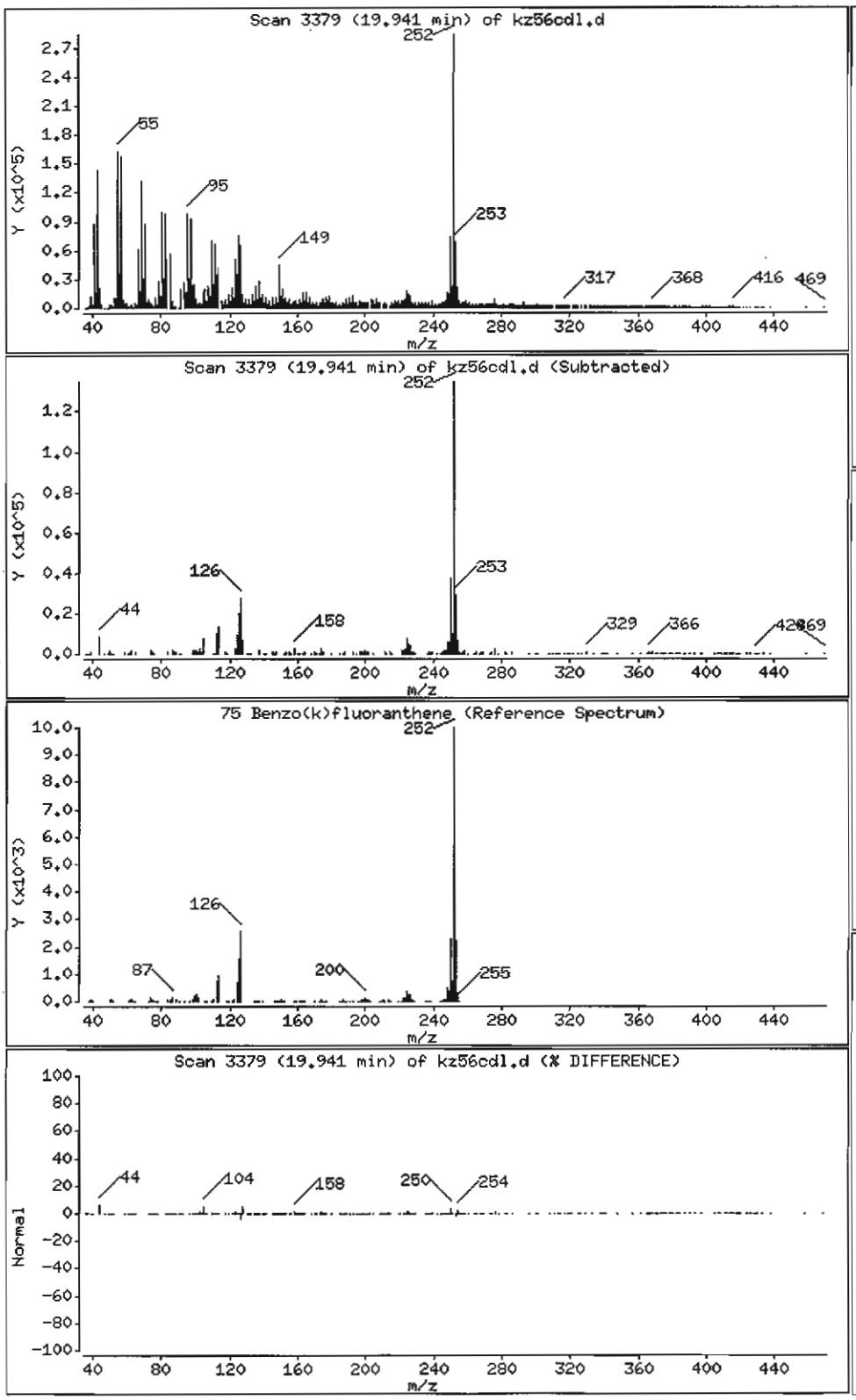
Operator: LJR/VTS

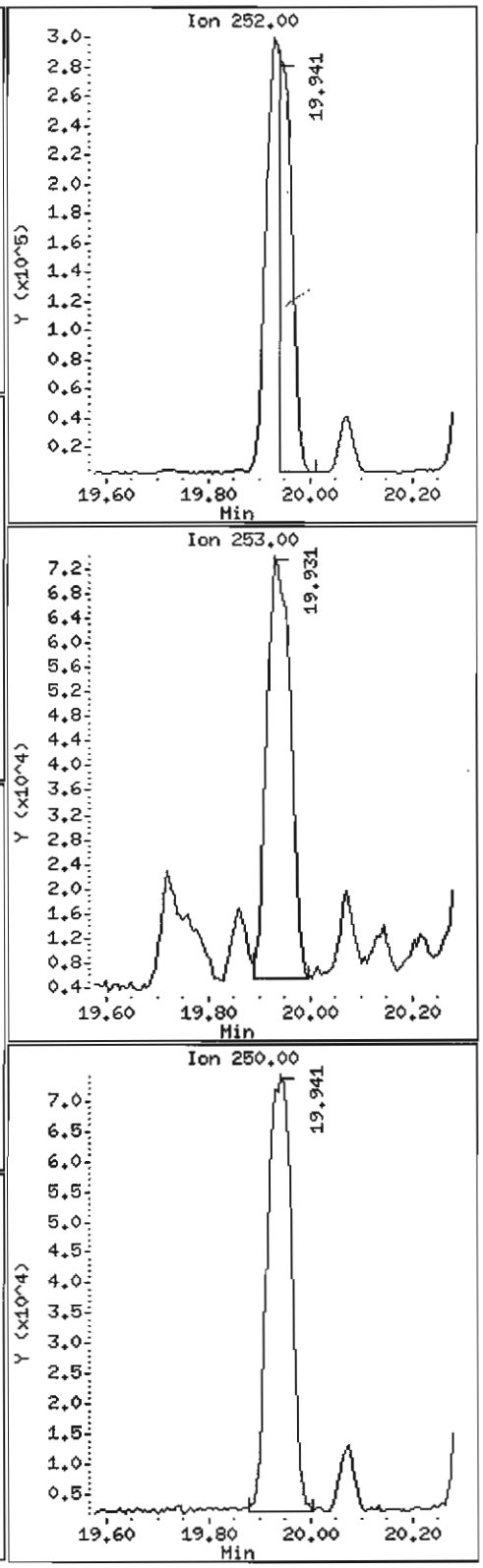
Column phase: ZB-5

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 3227 ug/kg





Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

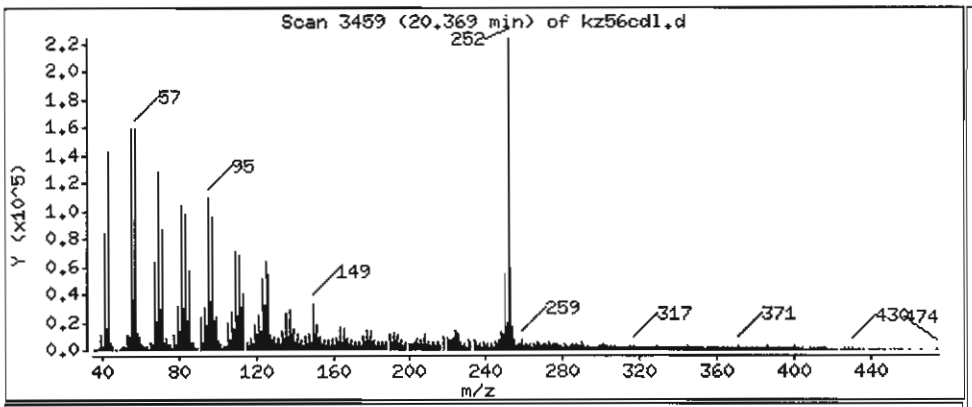
Operator: LJR/VTS

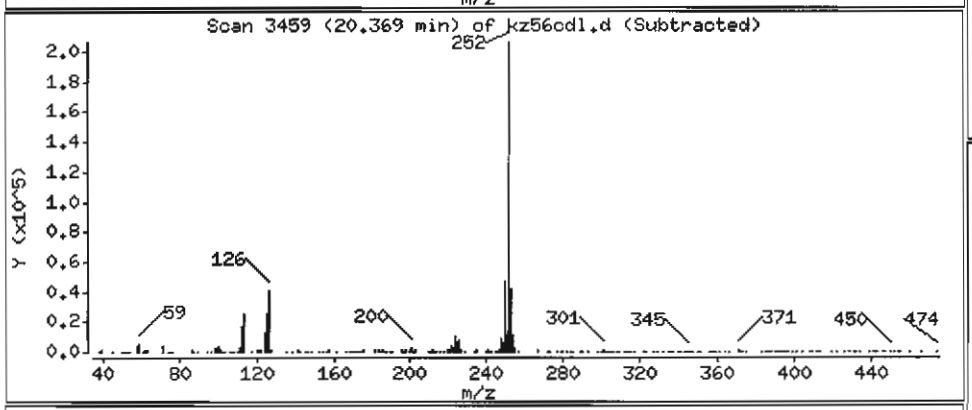
Column phase: ZB-5

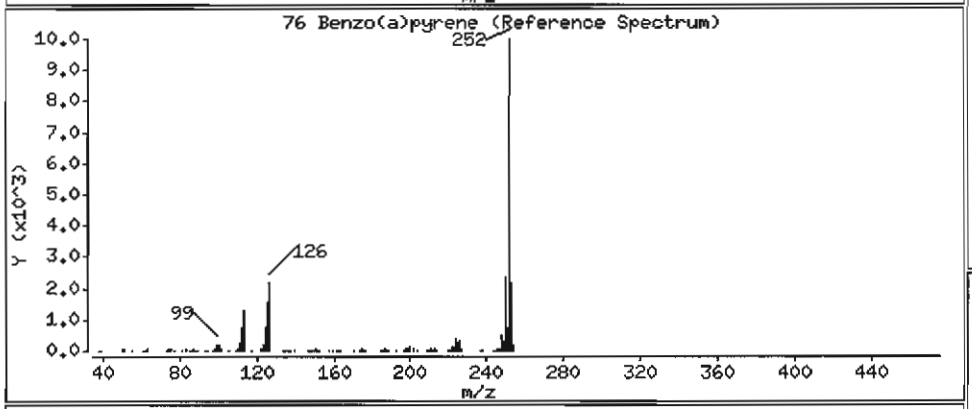
Column diameter: 0.32

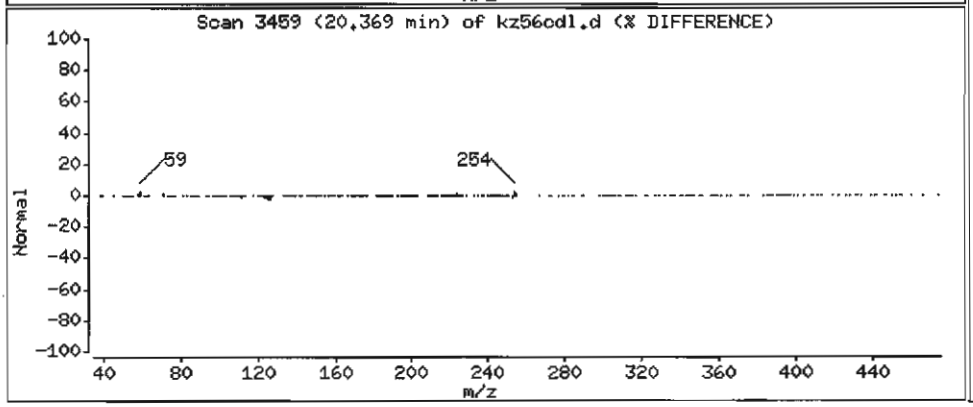
76 Benzo(a)pyrene

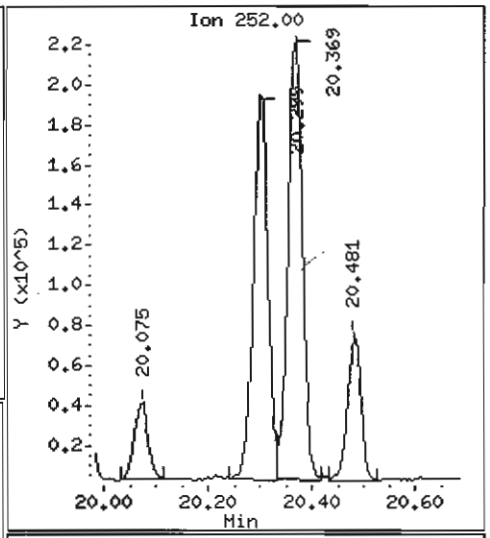
Concentration: 2723 ug/kg

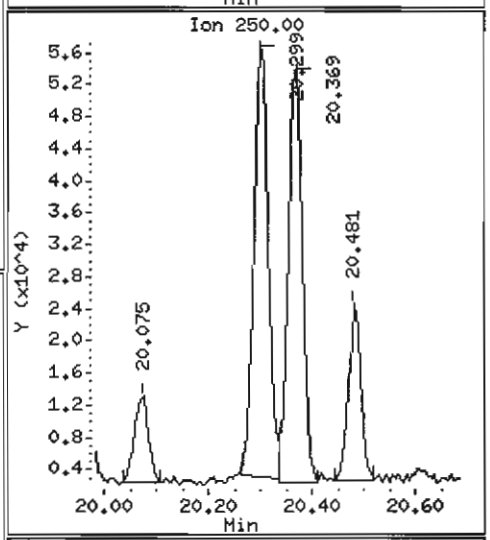


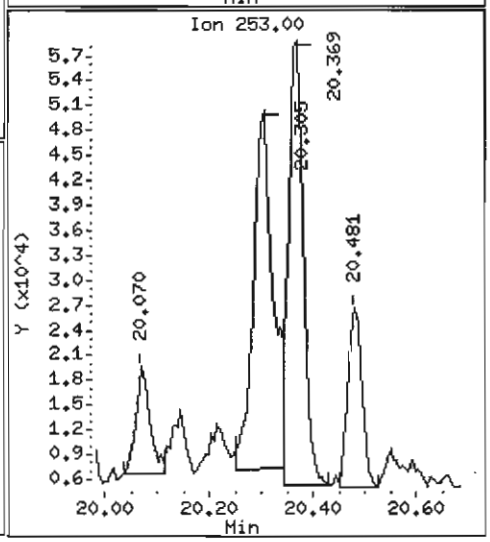












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

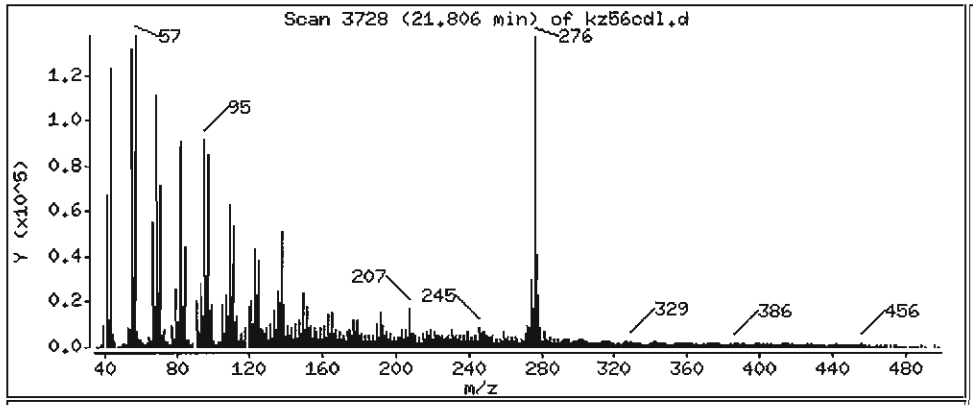
Operator: LJR/VTS

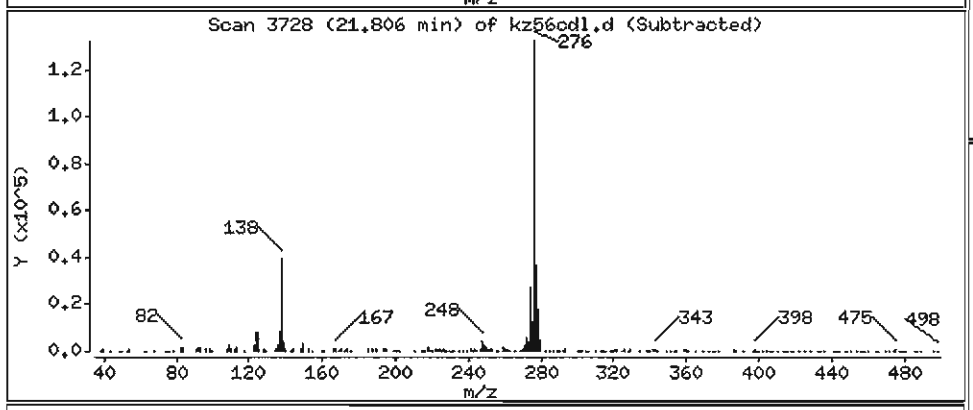
Column phase: ZB-5

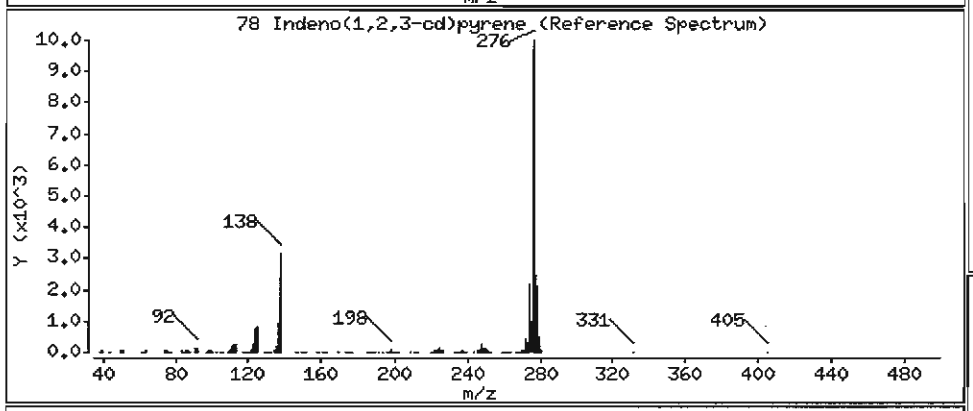
Column diameter: 0.32

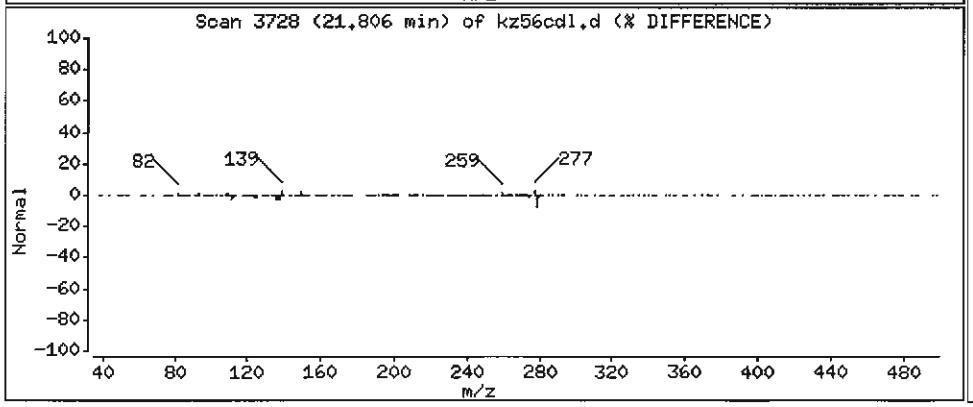
78 Indeno(1,2,3-cd)pyrene

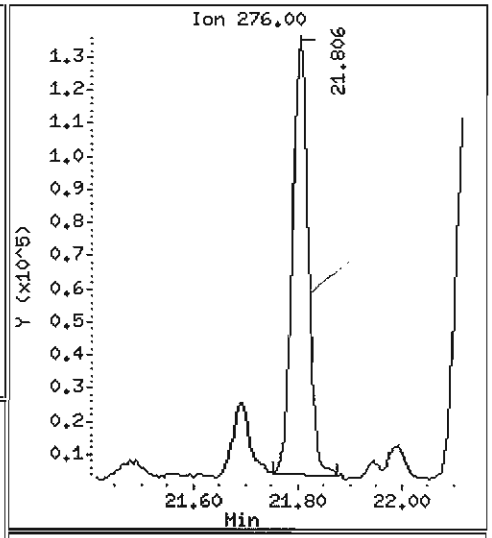
Concentration: 1452 ug/kg

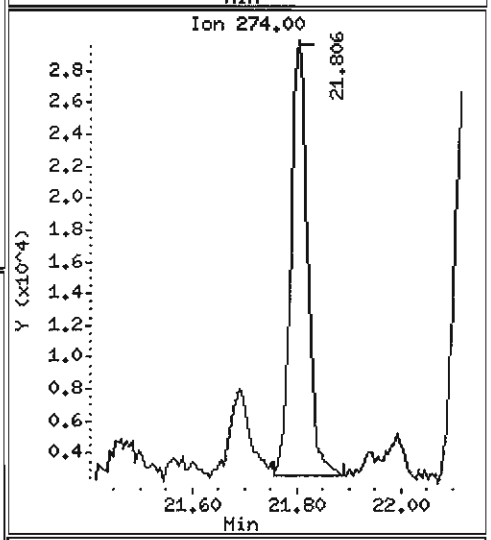


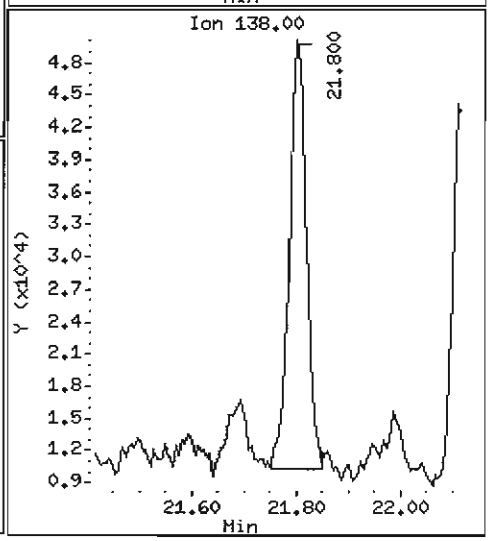












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

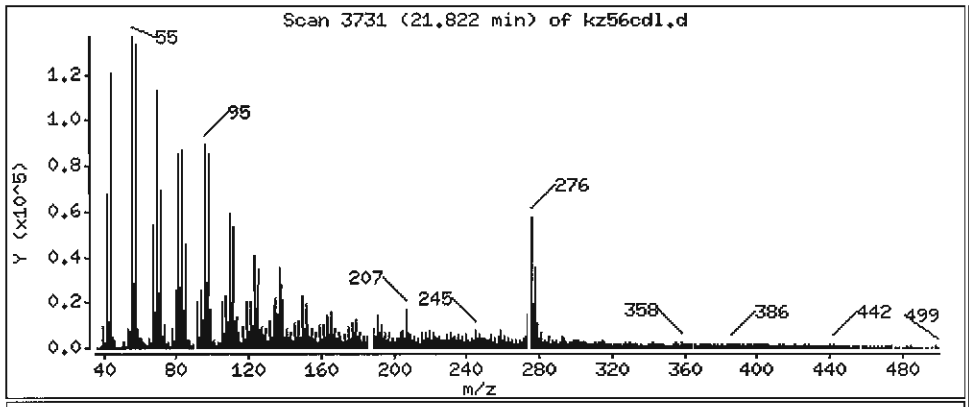
Operator: LJR/VTS

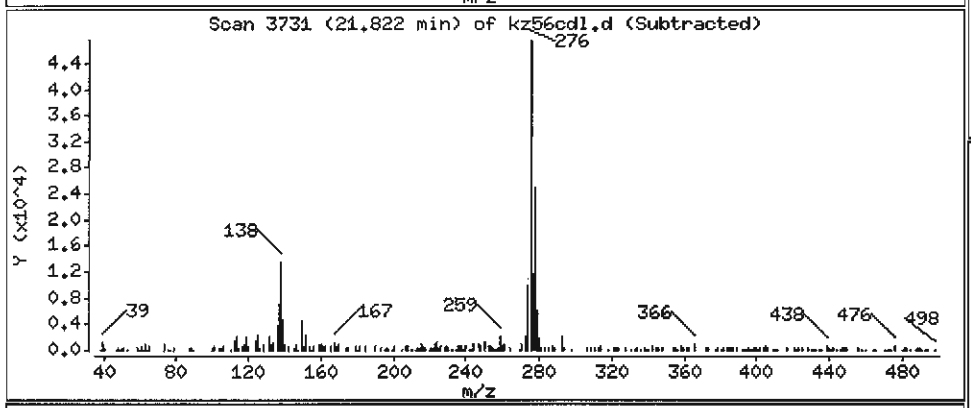
Column phase: ZB-5

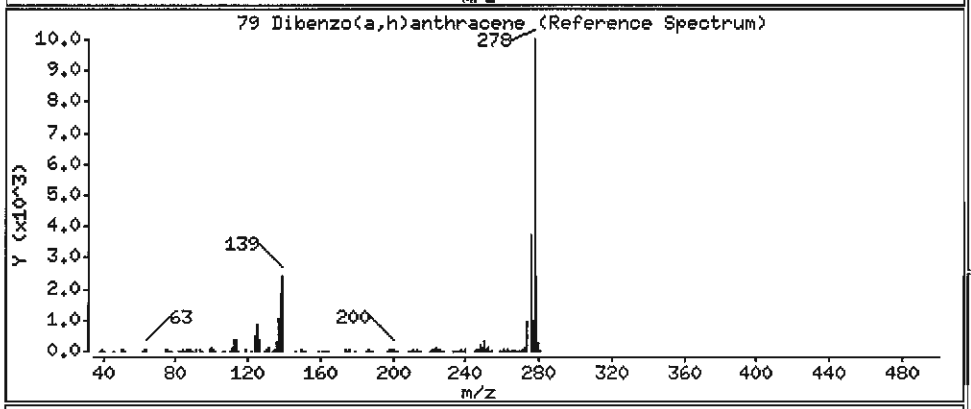
Column diameter: 0.32

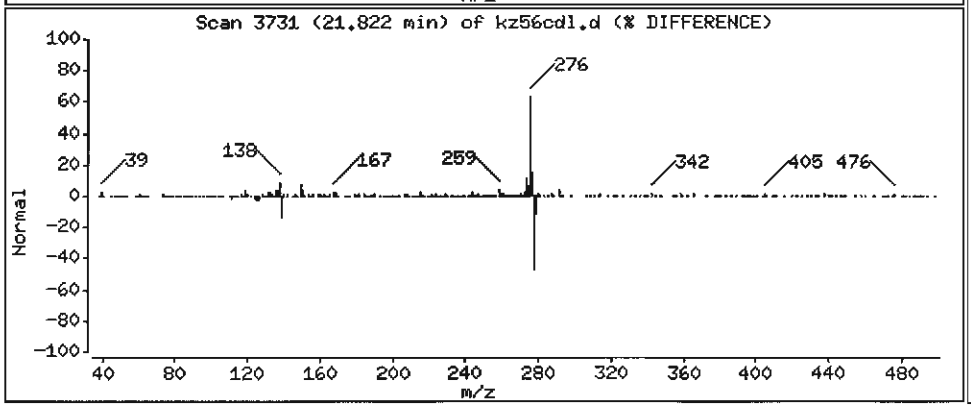
79 Dibenzo(a,h)anthracene

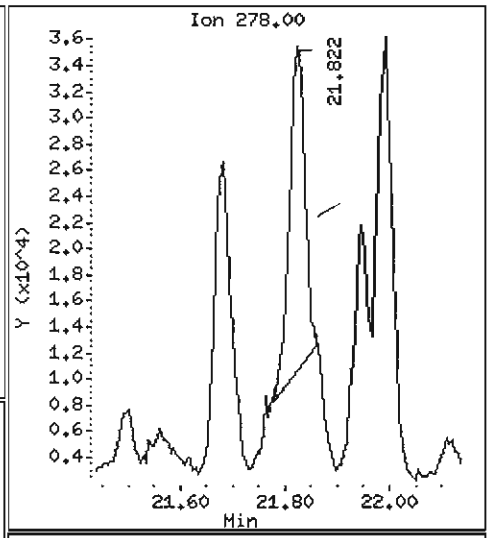
Concentration: 328.3 ug/kg

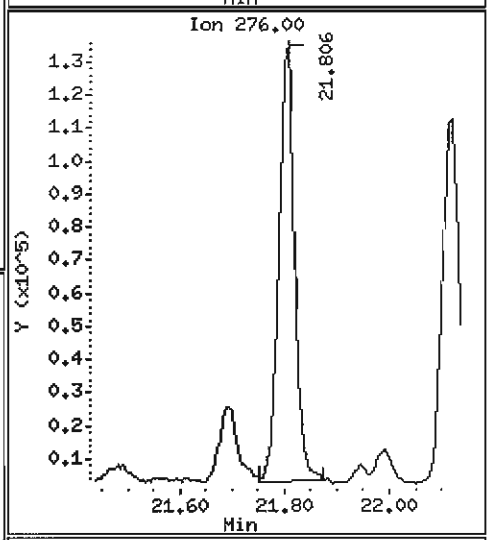


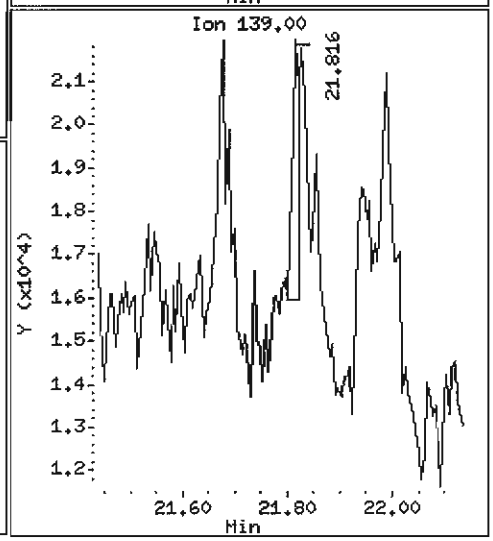












Data File: /chem1/nt6.i/20070529.b/kz56cdl.d

Date : 29-MAY-2007 10:26

Client ID: Y3-RC13-S

Instrument: nt6.i

Sample Info: KZ56C,5

Volume Injected (uL): 1.0

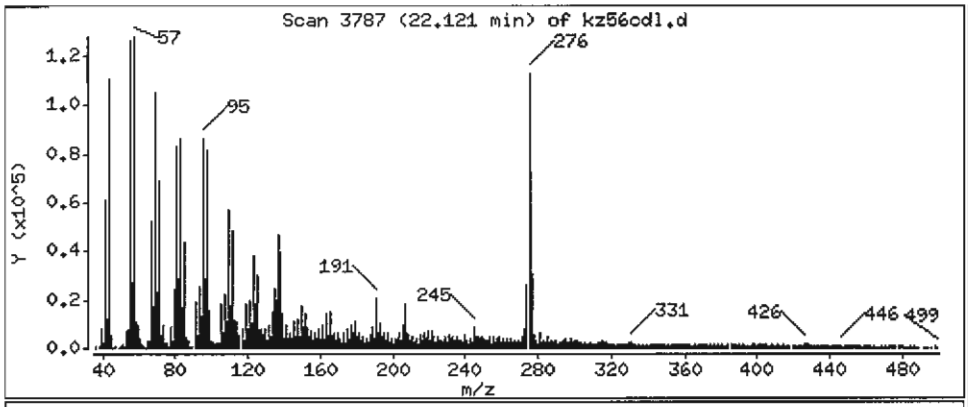
Operator: LJR/VTS

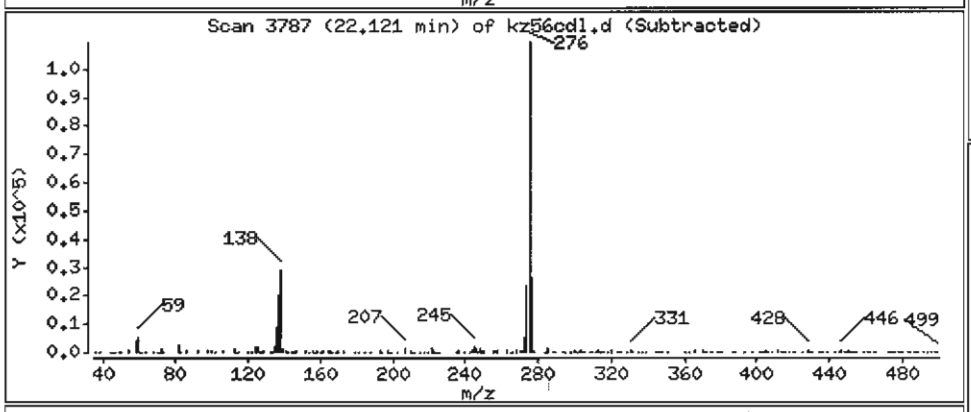
Column phase: ZB-5

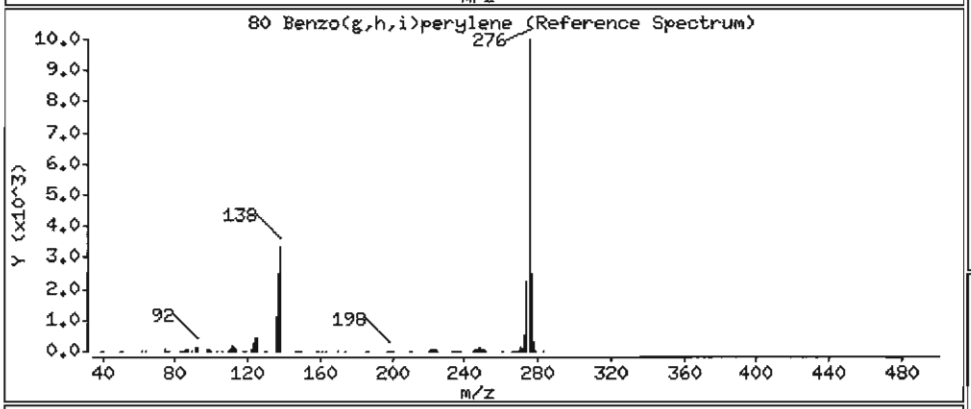
Column diameter: 0.32

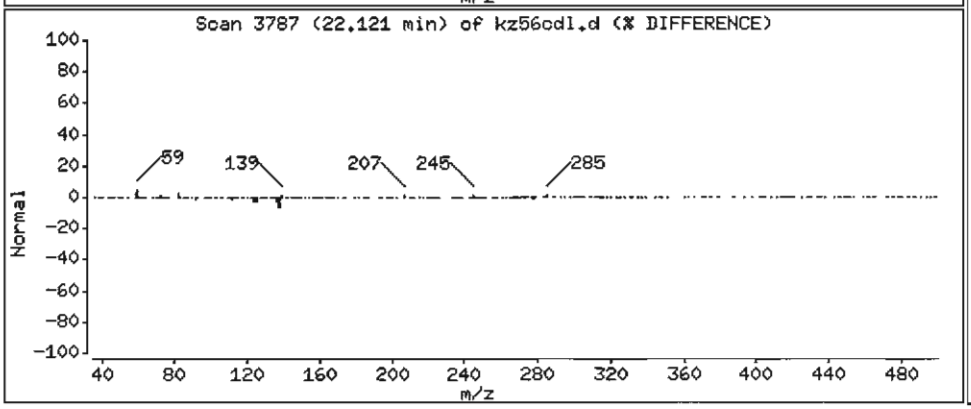
80 Benzo(g,h,i)perylene

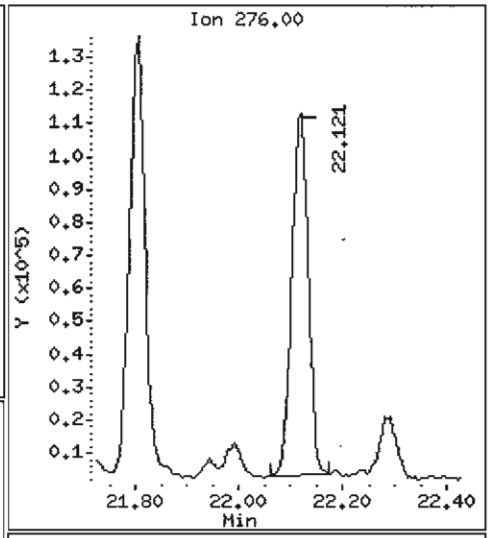
Concentration: 1376 ug/kg

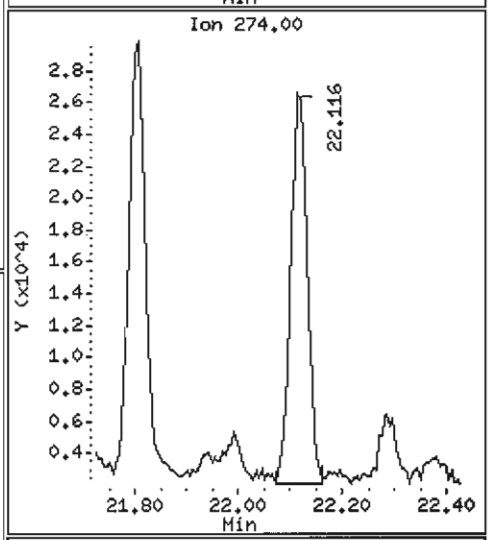


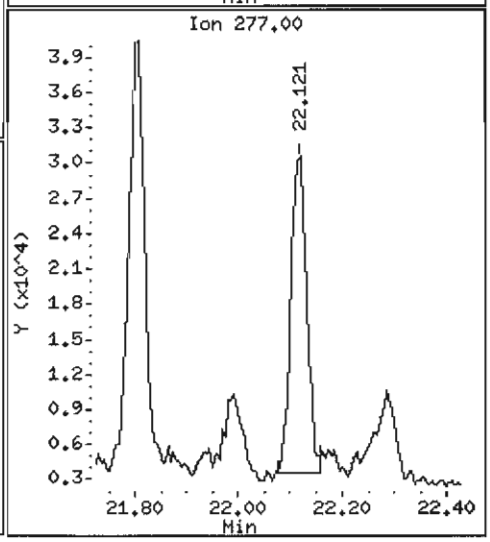












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC14-S
SAMPLE

Lab Sample ID: KZ56D
LIMS ID: 07-9550
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 20:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 24.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 46.8%
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	74 J
91-57-6	2-Methylnaphthalene	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	86 J
132-64-9	Dibenzofuran	120	72 J
86-73-7	Fluorene	120	110 J
85-01-8	Phenanthrene	120	1,600
120-12-7	Anthracene	120	270
206-44-0	Fluoranthene	120	3,400
129-00-0	Pyrene	120	2,600
56-55-3	Benzo(a)anthracene	120	1,200
117-81-7	bis(2-Ethylhexyl)phthalate	120	4,200
218-01-9	Chrysene	120	1,800
205-99-2	Benzo(b)fluoranthene	120	2,000
207-08-9	Benzo(k)fluoranthene	120	2,100
50-32-8	Benzo(a)pyrene	120	1,400
193-39-5	Indeno(1,2,3-cd)pyrene	120	560
53-70-3	Dibenz(a,h)anthracene	120	130
191-24-2	Benzo(g,h,i)perylene	120	540

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.7%	2-Fluorobiphenyl	66.5%
d14-p-Terphenyl	65.6%	d4-1,2-Dichlorobenzene	60.8%
d5-Phenol	61.7%	2-Fluorophenol	54.5%
2,4,6-Tribromophenol	64.1%	d4-2-Chlorophenol	61.8%

FORM I

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56d.d
Lab Smp Id: KZ56D Client Smp ID: Y3-RC14-S
Inj Date : 26-MAY-2007 20:26
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56D,3
Misc Info : 07-9550 LJR 5/29/07
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 11
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	46.10000	Weight of sample extracted (g)
M	46.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.009	4.981	(0.727)	127812	6.81391	833.5
$ 2 Phenol-d5	99	6.531	6.514	(0.948)	169580	7.70511	942.5
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.606	6.595	(0.959)	117422	7.71603	943.8
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.889	6.883	(1.000)	206315	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.183	7.177	(1.043)	47148	5.06657	619.8
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.808	7.807	(0.876)	97163	5.64338	690.3
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.663	8.763	(0.972)	12588	1.27263 LDL	155.7(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.908	8.902	(1.000)	723564	20.0000	
	28 Naphthalene	128	8.935	8.934	(1.003)	25830	0.60268 LDL	73.72
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.703	10.703	(0.911)	133386	5.54206	677.9
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.745	11.734	(1.000)	356612	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.793	11.787	(1.004)	15804	0.70229 LDL	85.91
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	12.055	12.049	(1.026)	17817	0.58734 LDL	71.85(M)
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.605	12.599	(1.073)	21651	0.90572 LDL	110.8
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.033	13.021	(1.110)	29090	8.01244	980.1
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.935	13.924	(0.988)	2532	0.69153 LDL	84.59
*	59 Phenanthrene-d10	188	14.101	14.084	(1.000)	472546	20.0000	
	60 Phenanthrene	178	14.133	14.122	(1.002)	409956	12.9996	1590
	61 Anthracene	178	14.202	14.196	(1.007)	71853	2.20510	269.7
	62 Carbazole	167	14.507	14.496	(1.029)	84507	3.01387	368.7
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	16.067	16.045	(1.139)	829960	27.7386	3393
65 Pyrene	202	16.414	16.392	(0.892)	723191	21.4892	2629
$ 66 Terphenyl-d14	244	16.756	16.734	(0.911)	116624	5.47233	669.4
67 Butylbenzylphthalate	149	17.659	17.642	(0.960)	35469	2.24152	274.2(M)
68 Benzo(a)anthracene	228	18.369	18.342	(0.999)	294212	9.71089	1188
* 69 Chrysene-d12	240	18.396	18.369	(1.000)	405590	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.433	18.406	(1.002)	441422	14.4027	1762
72 bis(2-Ethylhexyl)phthalate	149	18.685	18.657	(0.952)	719132	34.2365	4188
* 134 Di-n-octylphthalate-d4	153	19.619	19.587	(1.000)	613256	20.0000	
73 Di-n-octylphthalate	149	19.630	19.592	(1.001)	81255	2.23034	272.8(M)
74 Benzo(b)fluoranthene	252	20.036	19.987	(0.975)	351516	15.8914	1944(M)
75 Benzo(k)fluoranthene	252	20.041	20.019	(0.975)	359031	16.8960	2067(M)
76 Benzo(a)pyrene	252	20.474	20.425	(0.996)	251048	11.3389	1387
* 77 Perylene-d12	264	20.554	20.505	(1.000)	341159	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.911	21.852	(1.066)	120671	4.61000	563.9
79 Dibenzo(a,h)anthracene	278	21.933	21.884	(1.067)	22339	1.03040	126.0(M)
80 Benzo(g,h,i)perylene	276	22.237	22.178	(1.082)	105992	4.42016	540.7(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.456	6.456	(0.937)	101375	3.28511	401.9
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56d.d
Lab Smp Id: KZ56D
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9550

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC14-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	206315	-4.92
27 Naphthalene-d8	799420	399710	1598840	723564	-9.49
42 Acenaphthene-d10	390056	195028	780112	356612	-8.57
59 Phenanthrene-d10	573879	286940	1147758	472546	-17.66
69 Chrysene-d12	366829	183414	733658	405590	10.57
134 Di-n-octylphthala	621709	310854	1243418	613256	-1.36
77 Perylene-d12	428868	214434	857736	341159	-20.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.09
27 Naphthalene-d8	8.90	8.40	9.40	8.91	0.07
42 Acenaphthene-d10	11.73	11.23	12.23	11.75	0.10
59 Phenanthrene-d10	14.08	13.58	14.58	14.10	0.12
69 Chrysene-d12	18.37	17.87	18.87	18.40	0.15
134 Di-n-octylphthala	19.59	19.09	20.09	19.62	0.17
77 Perylene-d12	20.51	20.01	21.01	20.55	0.24

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56D
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9550

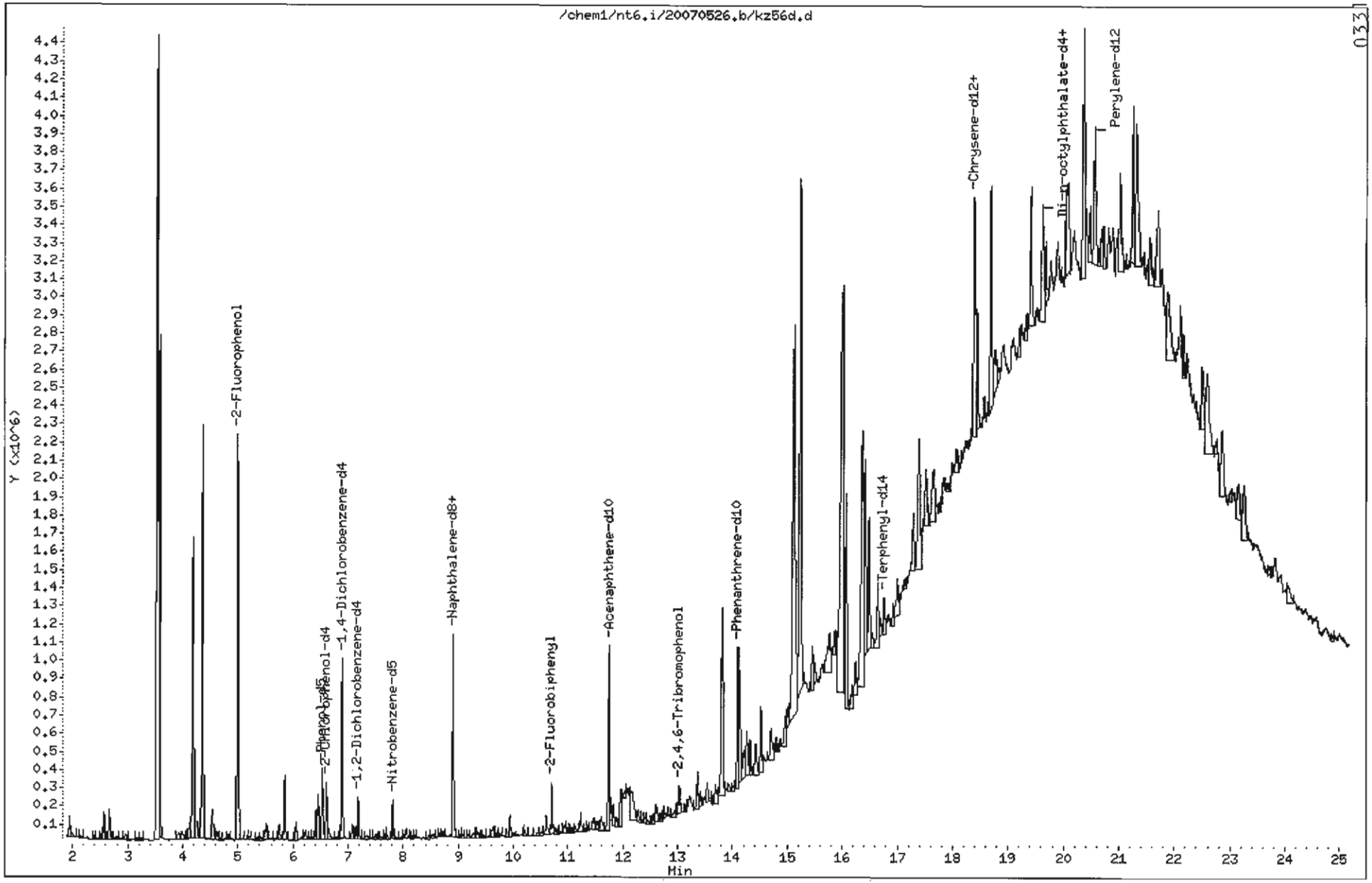
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC14-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1529	833.5	54.51	22-91
$ 2 Phenol-d5	1529	942.5	61.64	26-99
$ 5 2-Chlorophenol-d4	1529	943.8	61.73	29-96
$ 10 1,2-Dichlorobenzen	1019	619.8	60.80	24-87
$ 18 Nitrobenzene-d5	1019	690.3	67.72	27-101
$ 36 2-Fluorobiphenyl	1019	677.9	66.50	30-100
$ 55 2,4,6-Tribromophen	1529	980.1	64.10	20-114
$ 66 Terphenyl-d14	1019	669.4	65.67	12-120

Data File: /chem1/nt6.i/20070526.b/kz56d.d
Date : 26-MAY-2007 20:26
Client ID: Y3-RC14-S
Sample Info: KZ56D,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

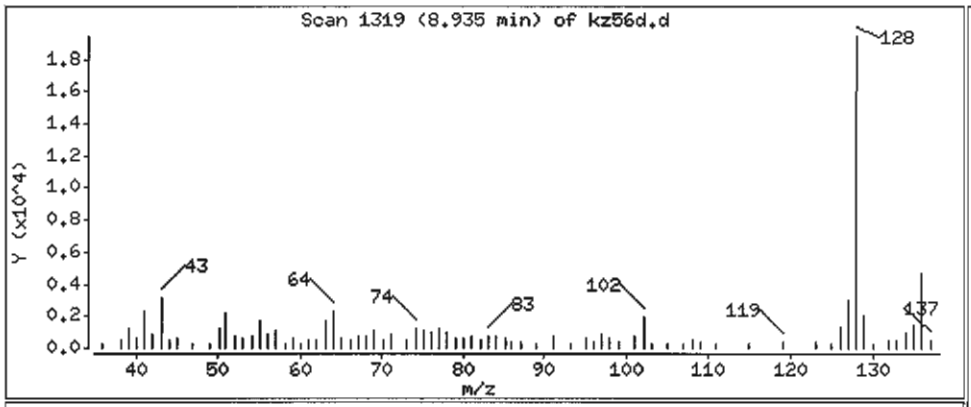
Operator: LJR/VTS

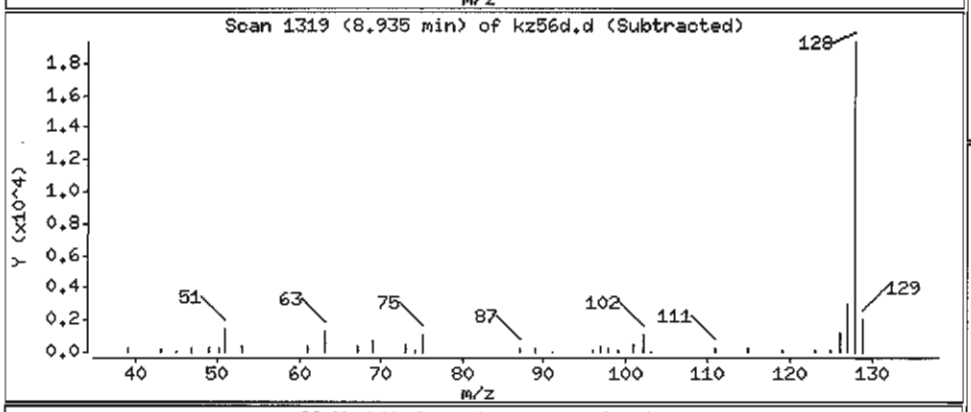
Column phase: ZB-5

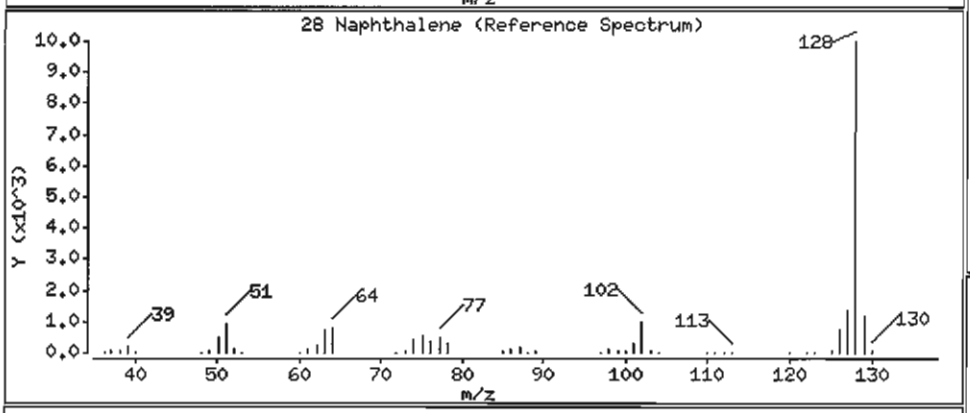
Column diameter: 0.32

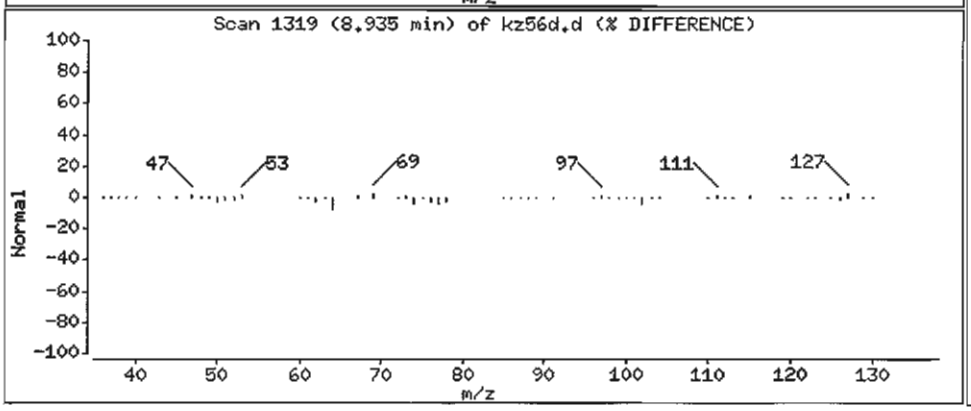
28 Naphthalene

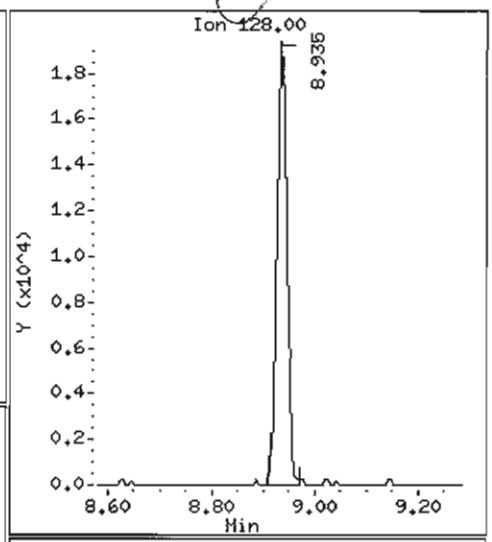
Concentration: 73.72 ug/kg

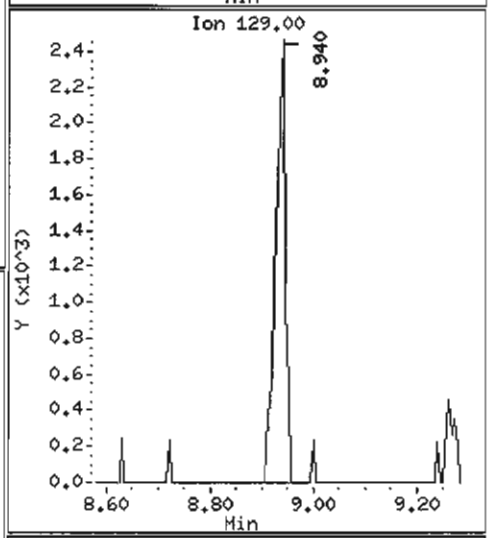


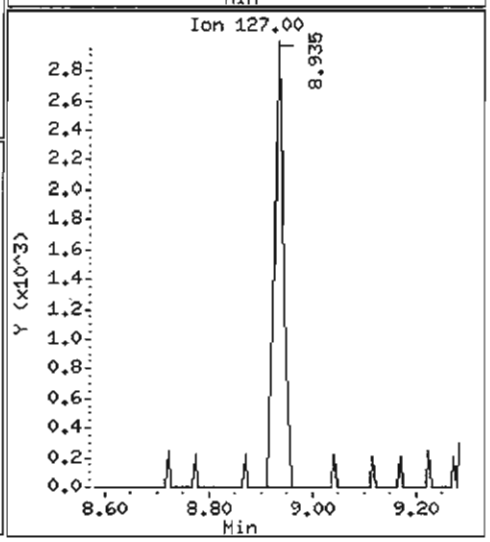












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

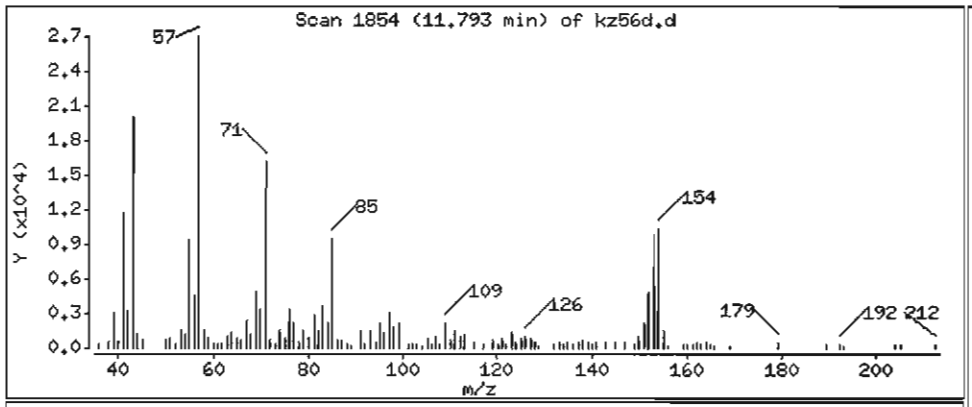
Column phase: ZB-5

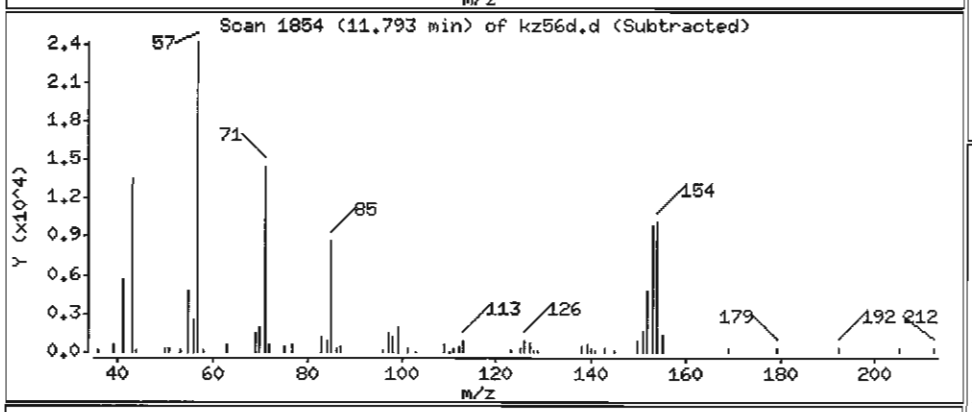
Column diameter: 0.32

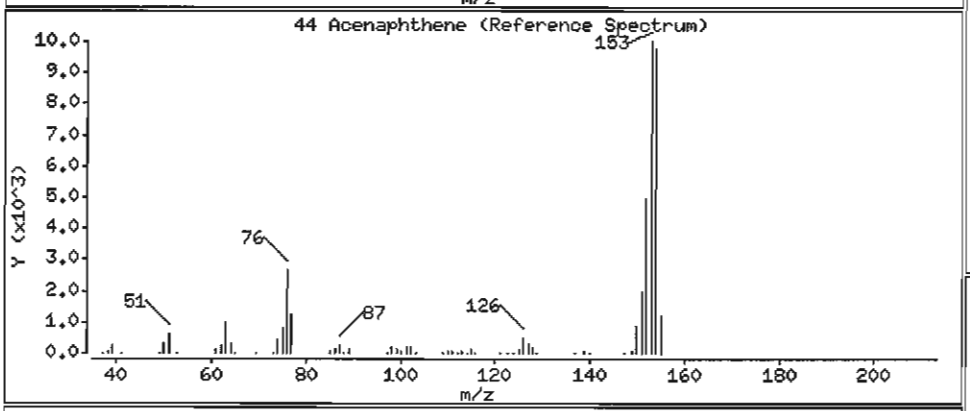
JLR

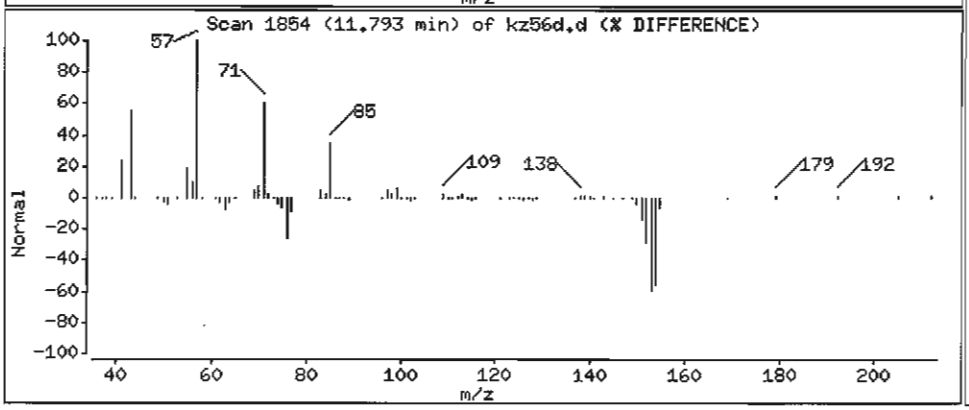
44 Acenaphthene

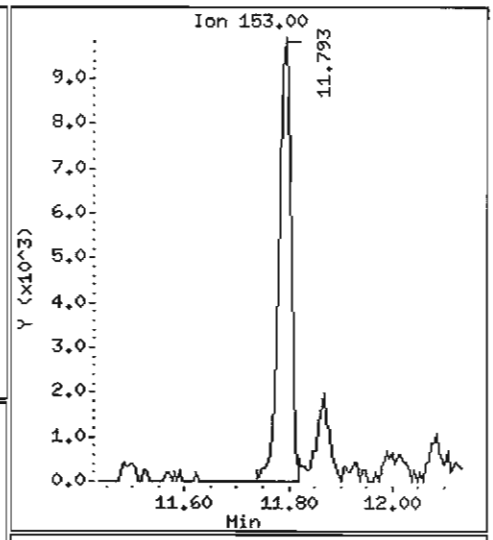
Concentration: 85.91 ug/kg

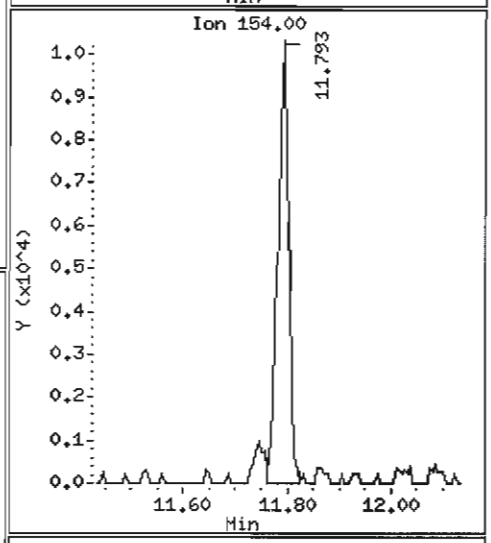


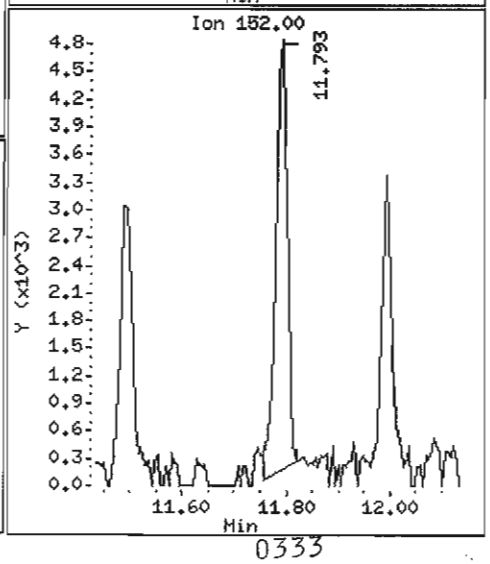












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

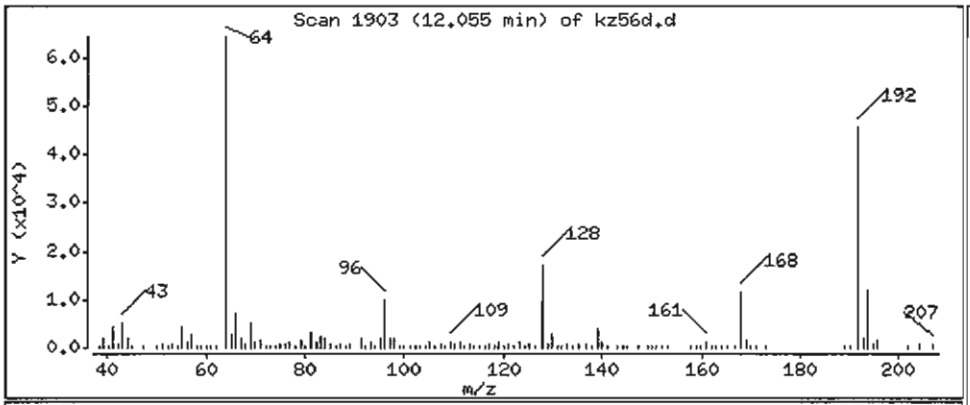
Column phase: ZB-5

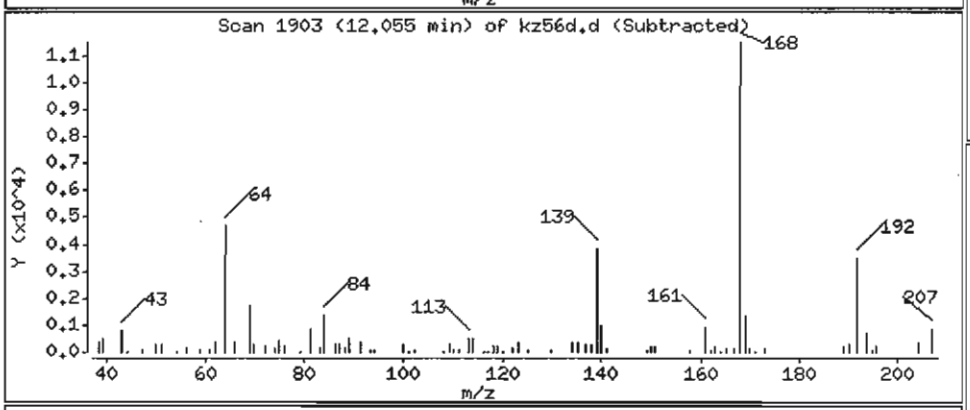
Column diameter: 0.32

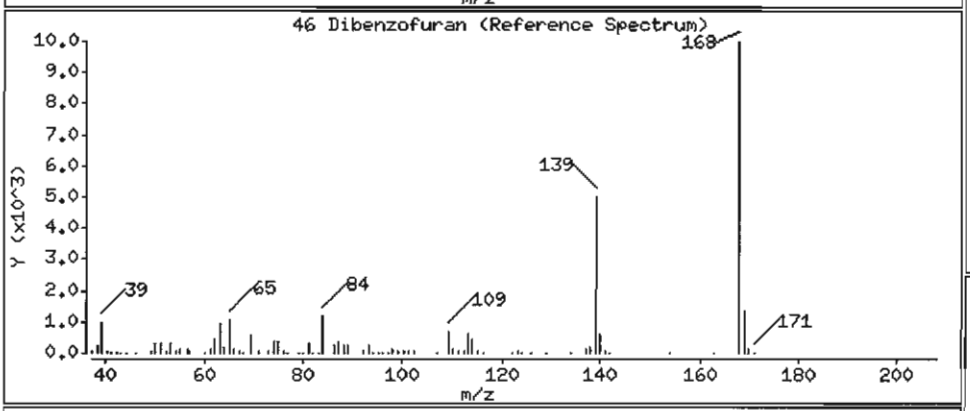
JLR

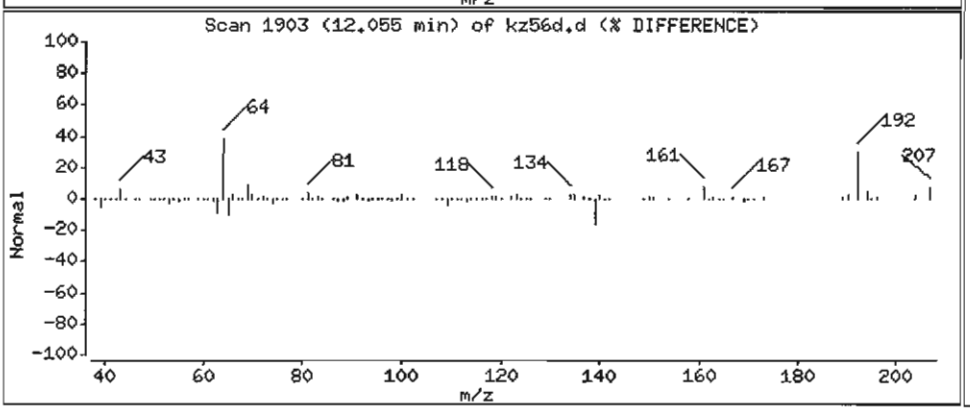
46 Dibenzofuran

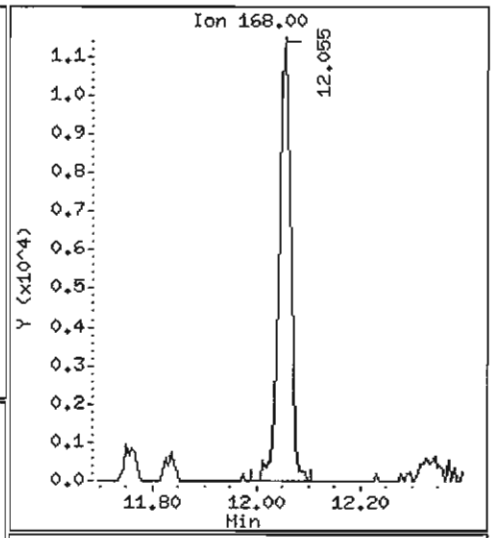
Concentration: 71.85 ug/kg

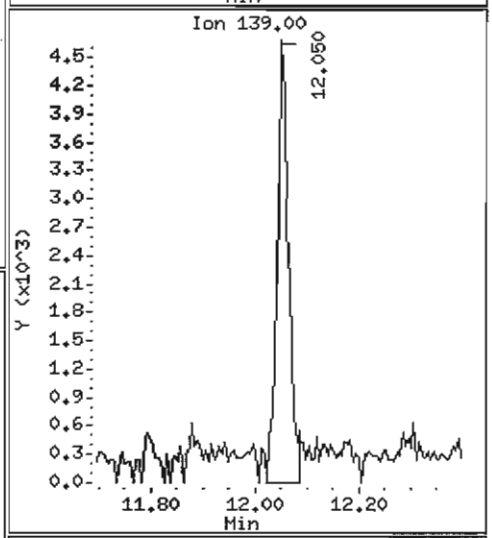


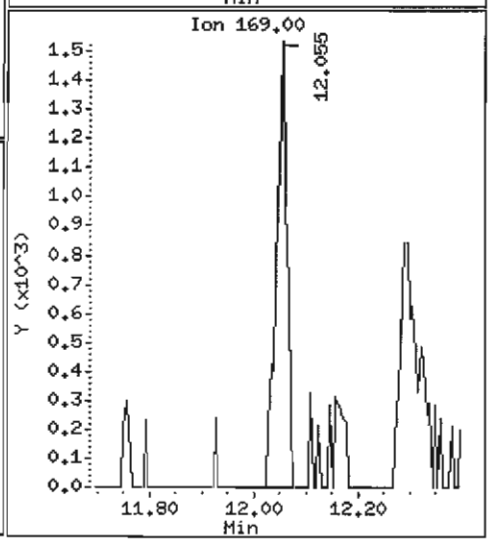












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

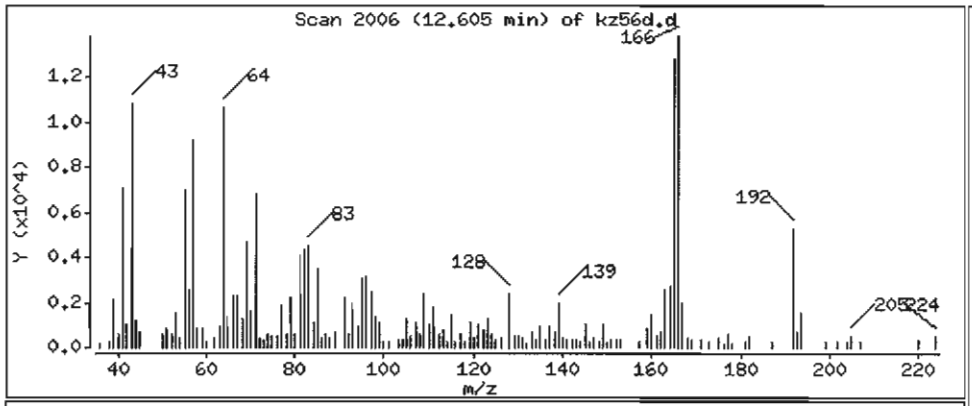
Column phase: ZB-5

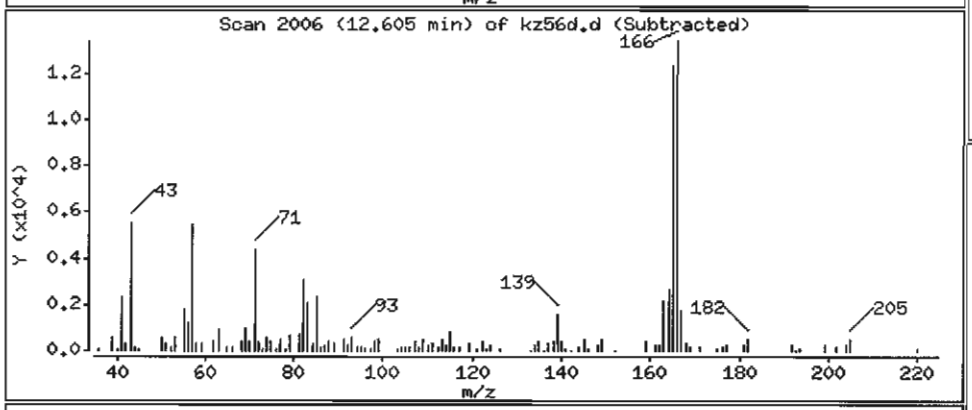
Column diameter: 0.32

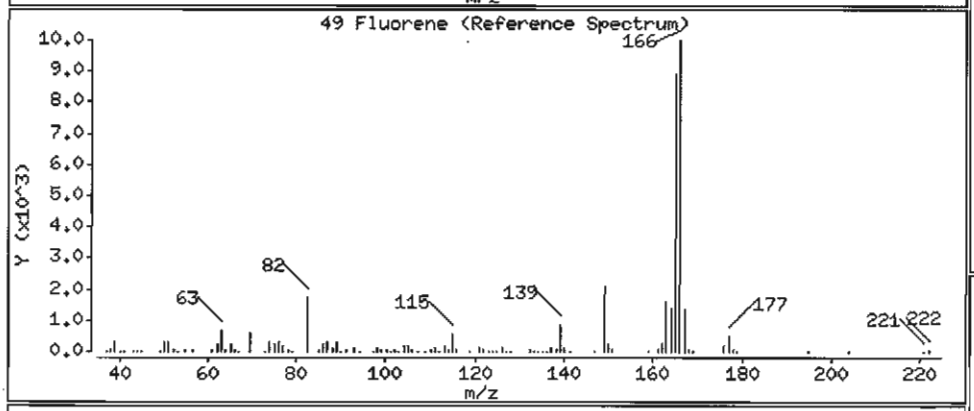
49 Fluorene

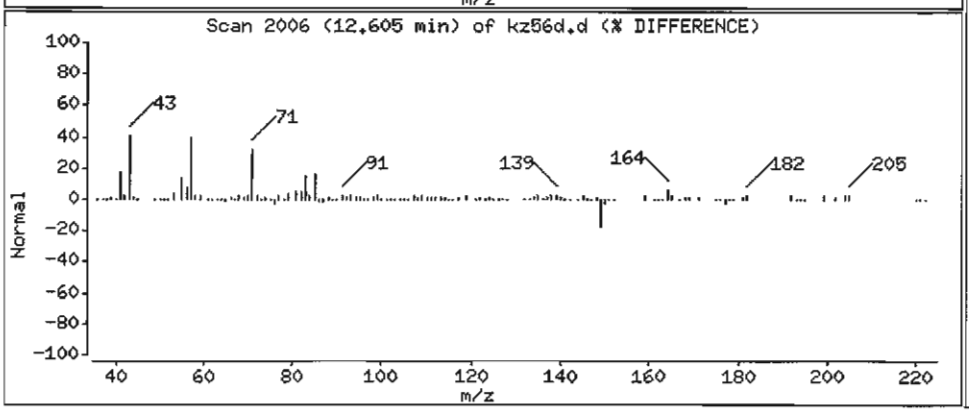
Concentration: 110.8 ug/kg

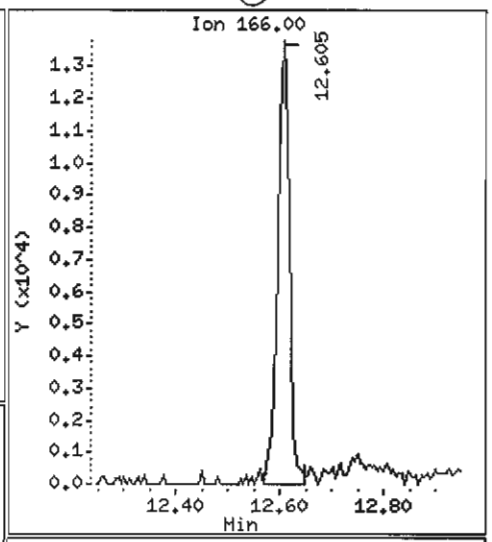
JCRL

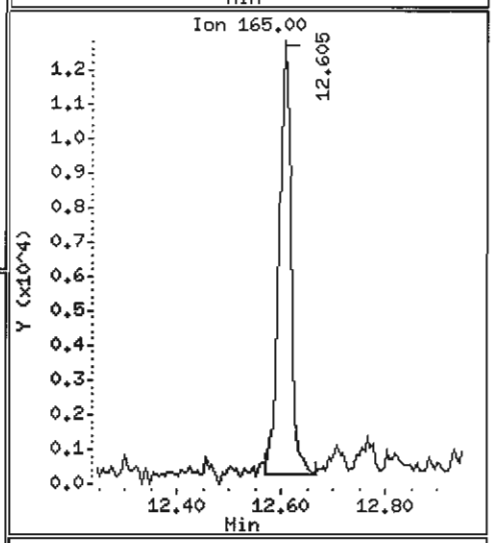


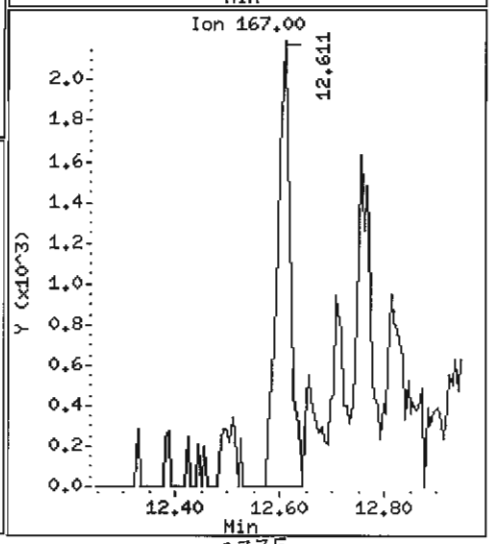












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

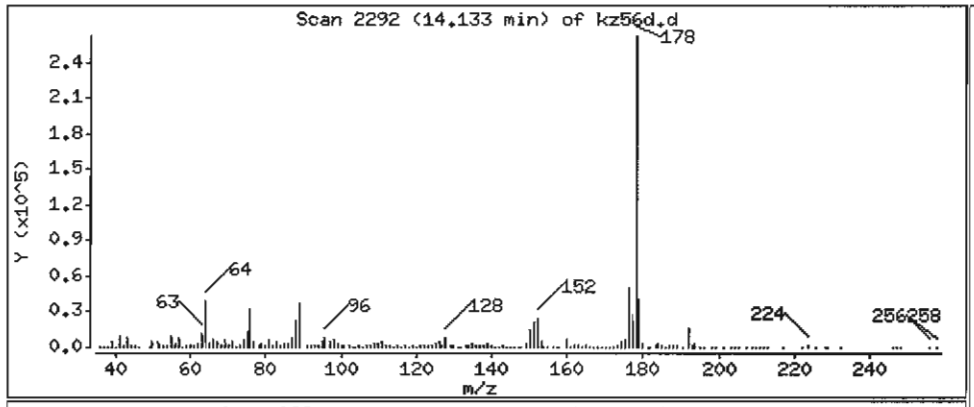
Operator: LJR/VTS

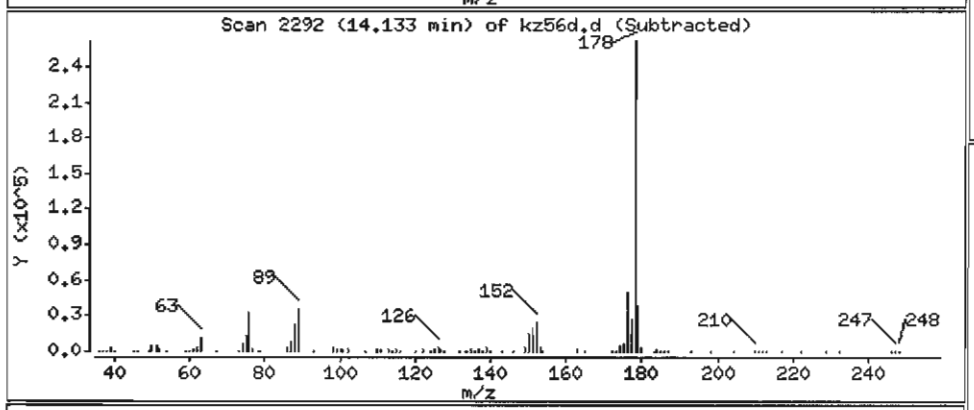
Column phase: ZB-5

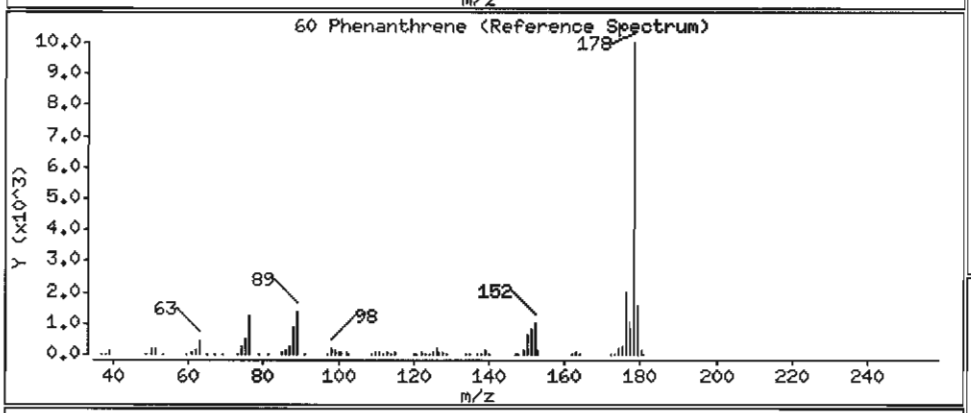
Column diameter: 0.32

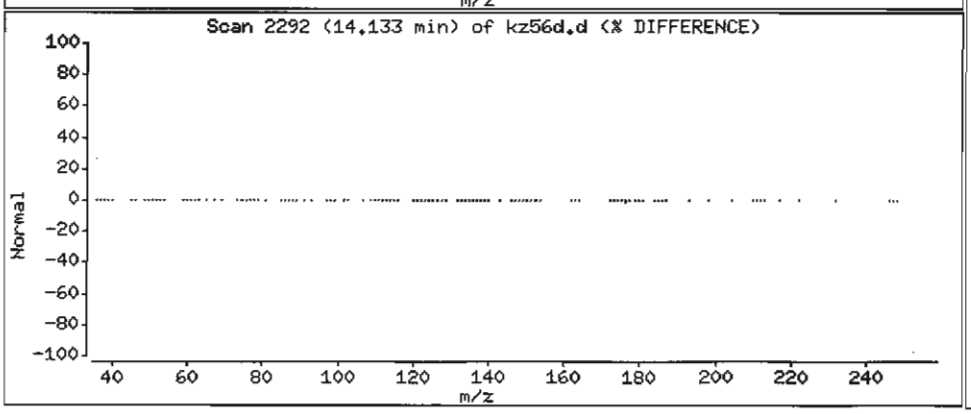
60 Phenanthrene

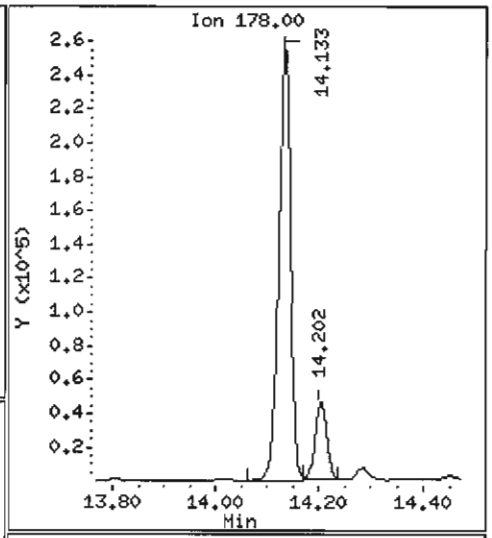
Concentration: 1590 ug/kg

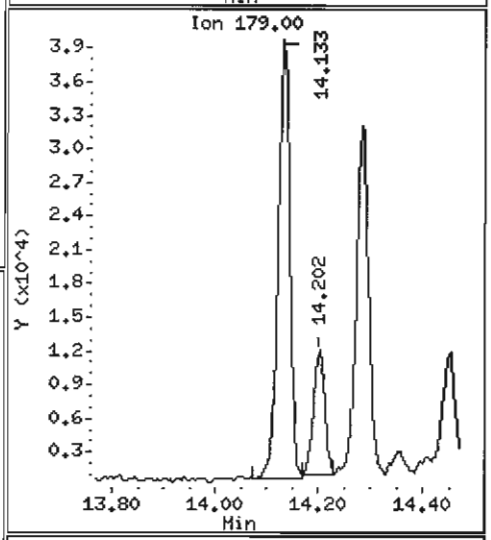


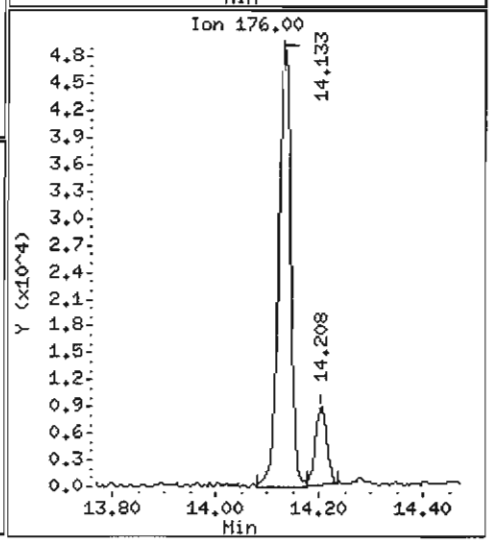












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

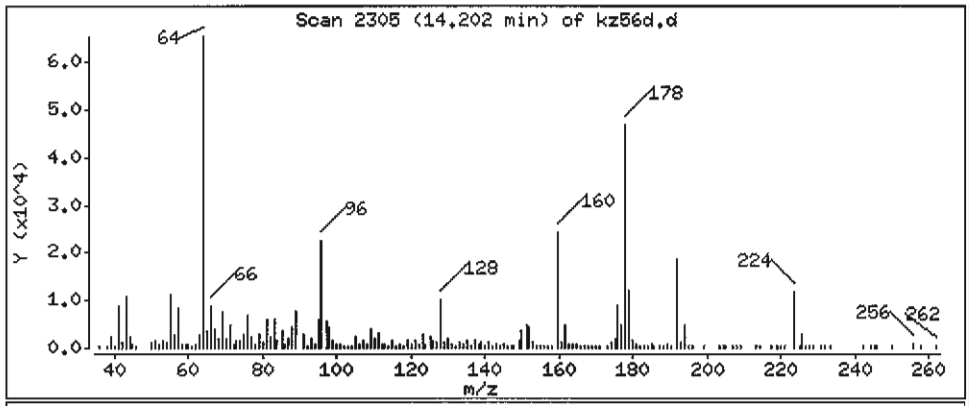
Operator: LJR/VTS

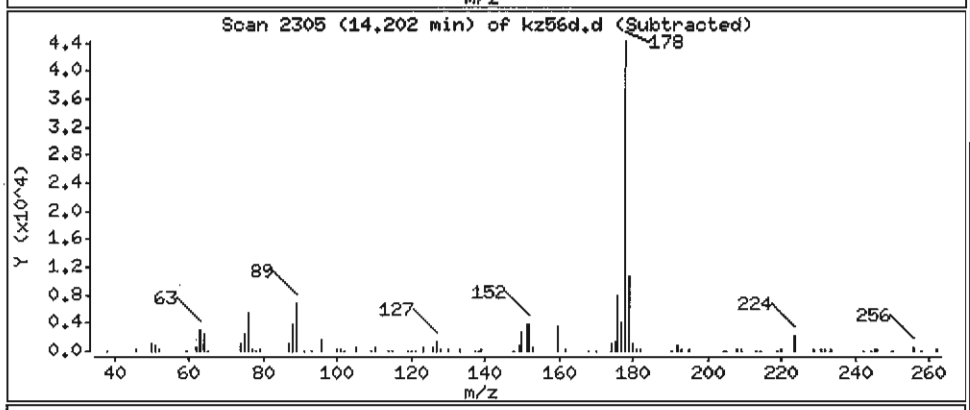
Column phase: ZB-5

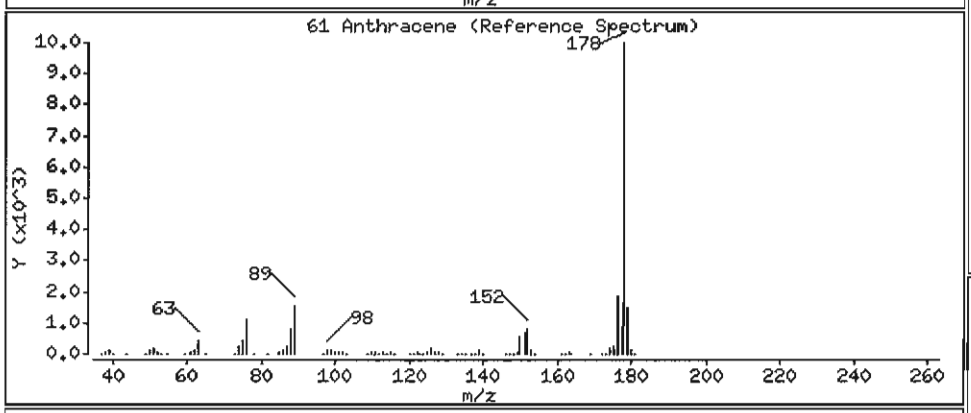
Column diameter: 0.32

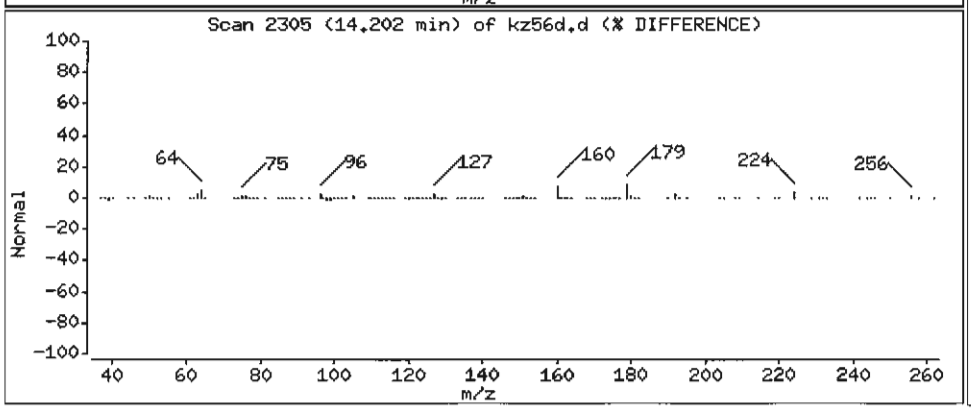
61 Anthracene

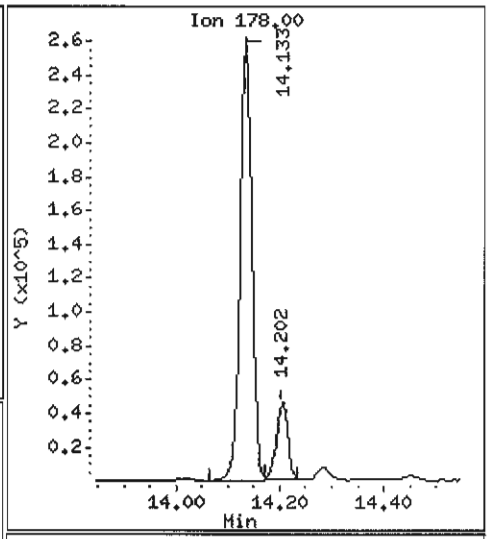
Concentration: 269.7 ug/kg

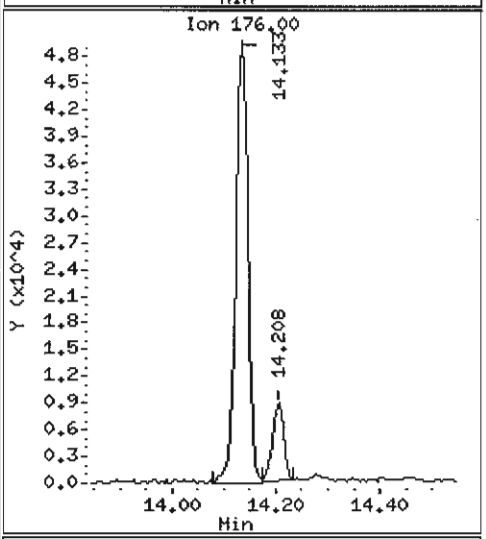


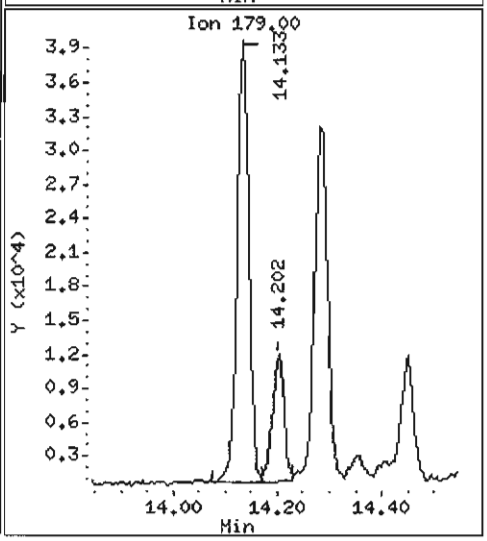












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

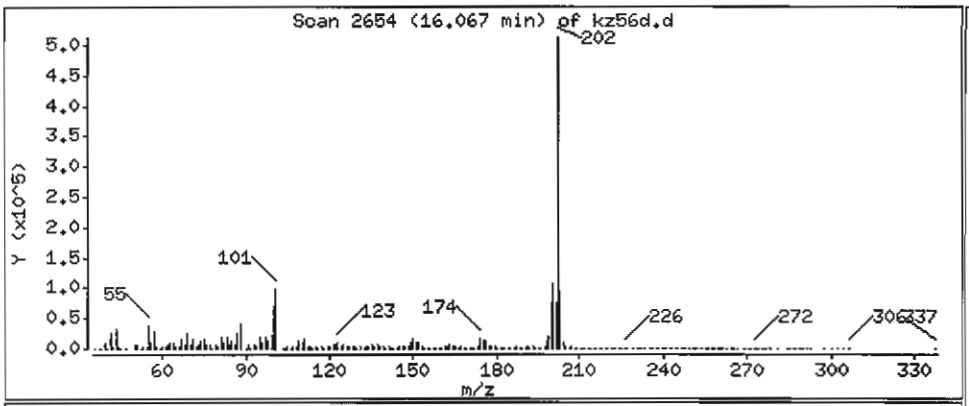
Operator: LJR/VTS

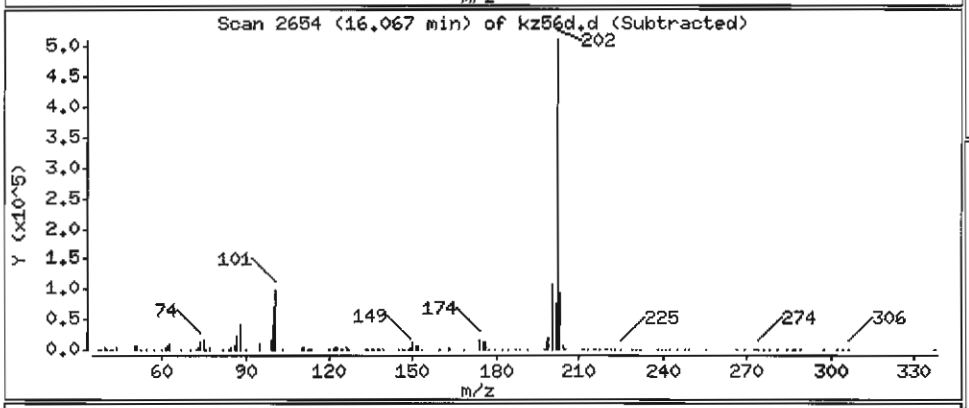
Column phase: ZB-5

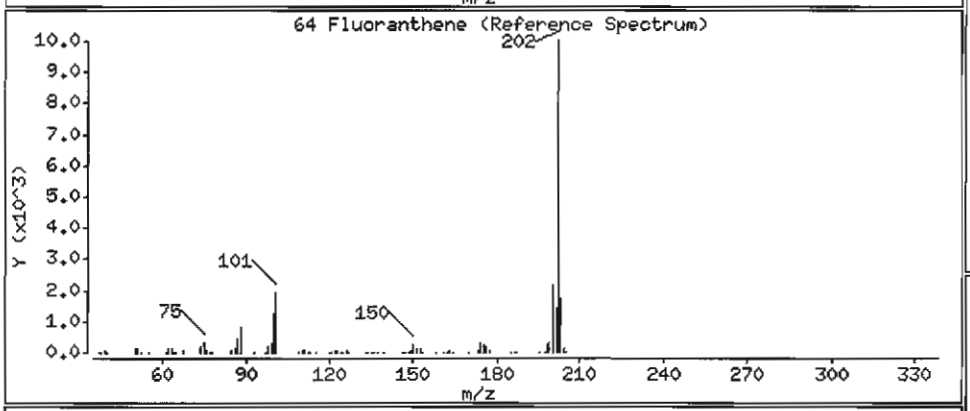
Column diameter: 0.32

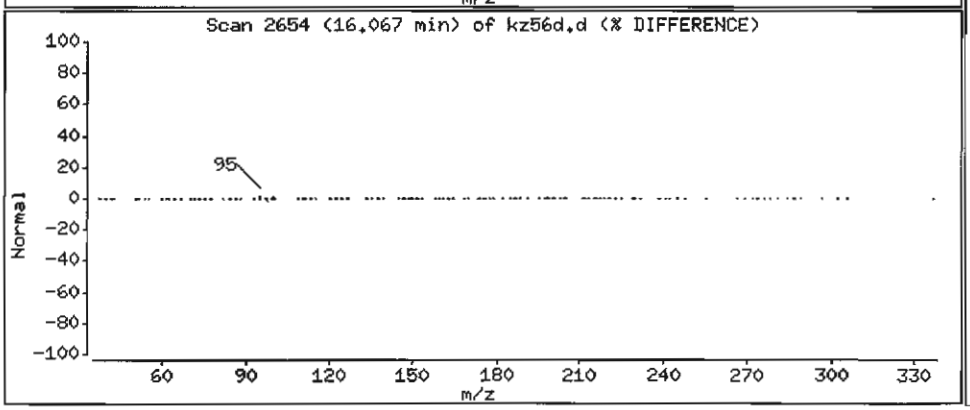
64 Fluoranthene

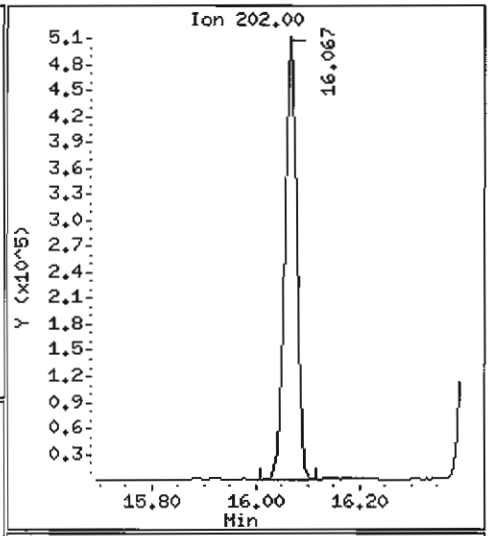
Concentration: 3393 ug/kg

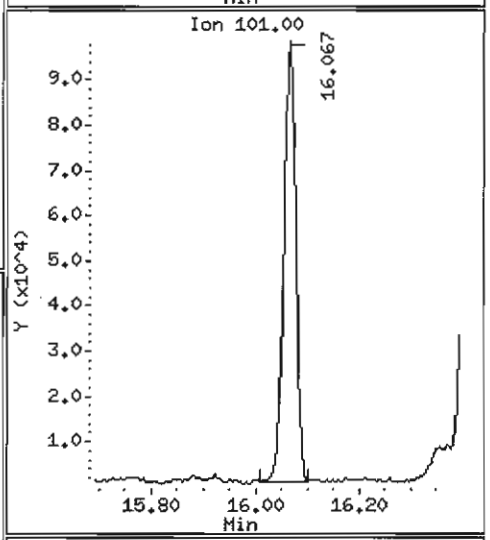


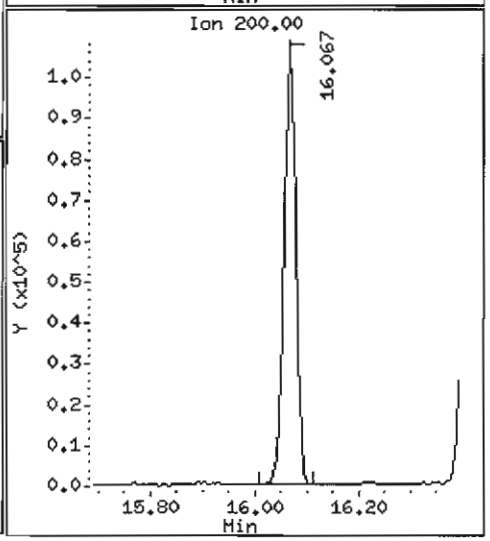












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

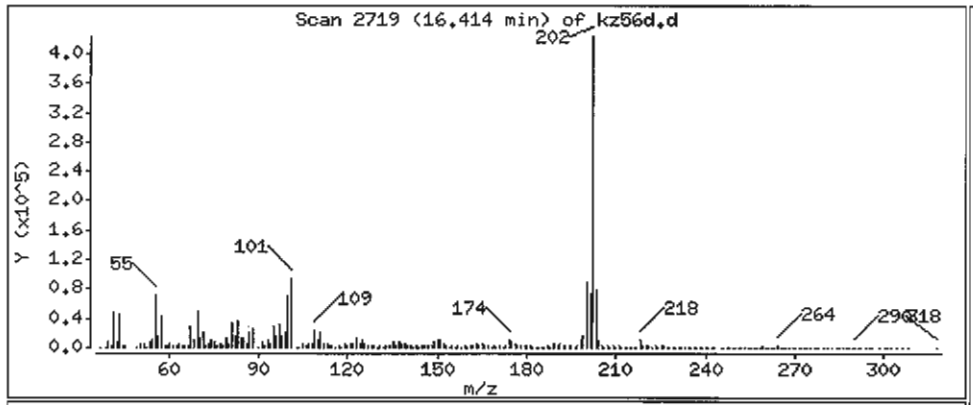
Operator: LJR/VTS

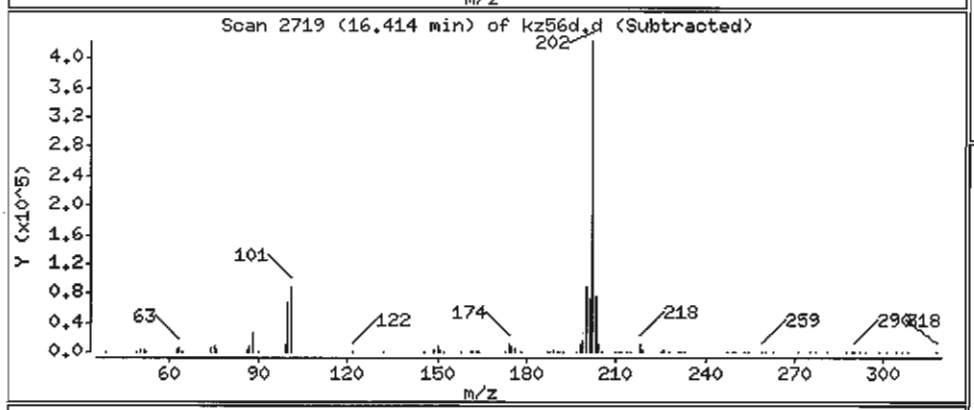
Column phase: ZB-5

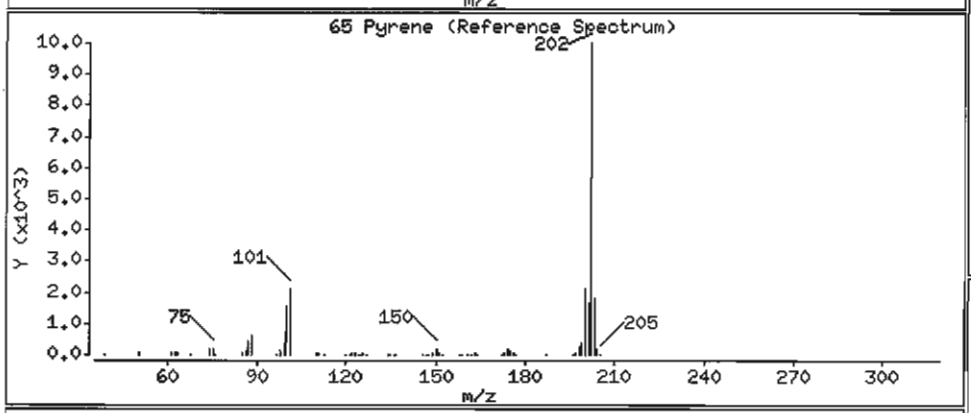
Column diameter: 0.32

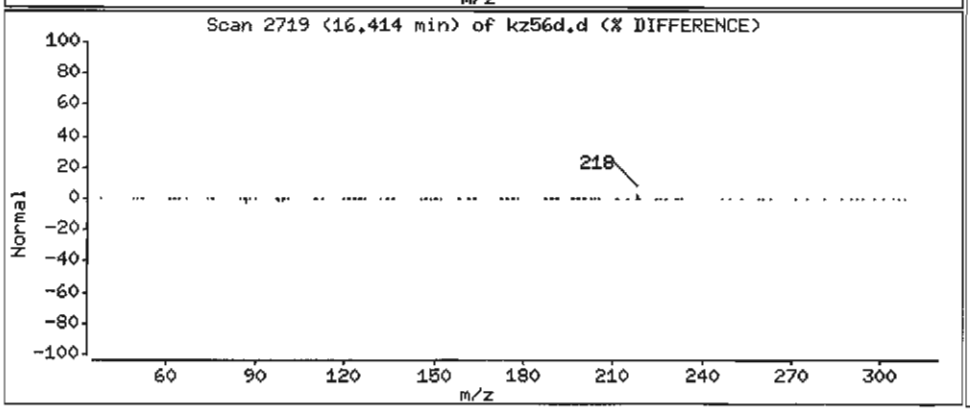
65 Pyrene

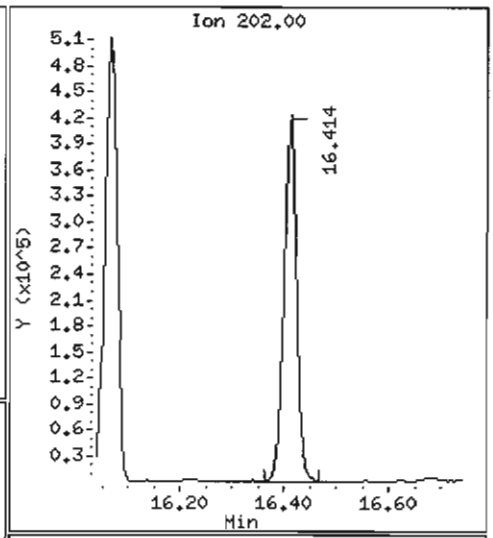
Concentration: 2629 ug/kg

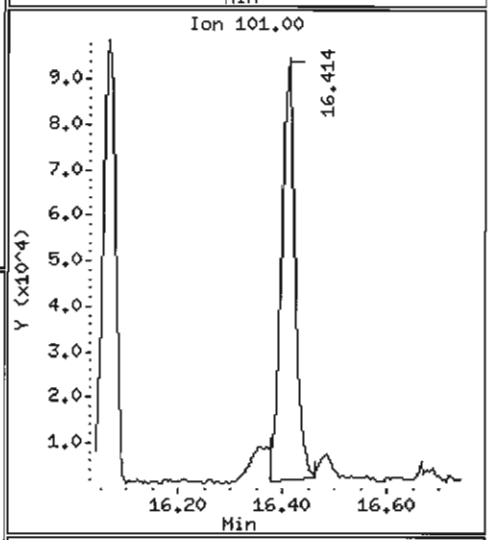


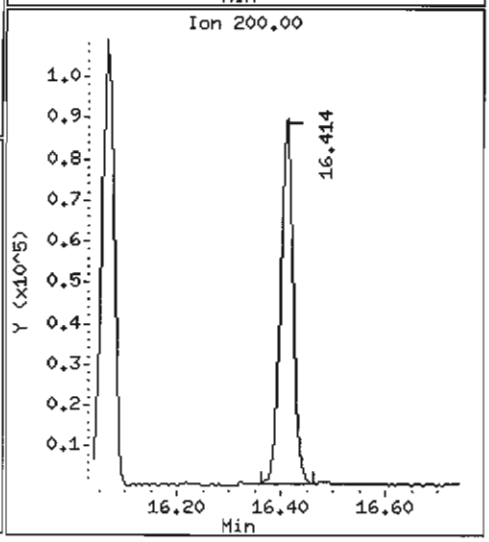












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

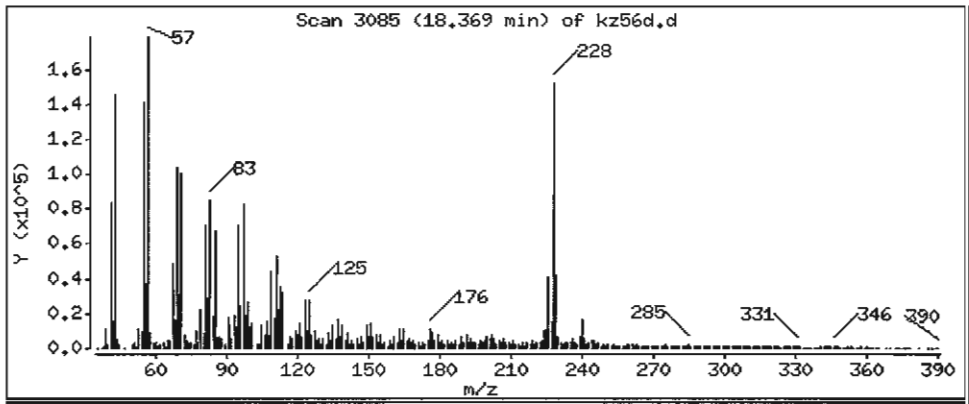
Operator: LJR/VTS

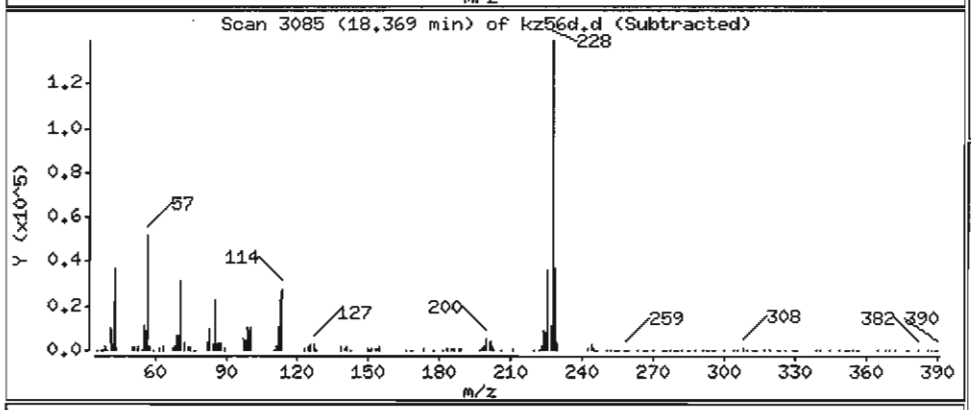
Column phase: ZB-5

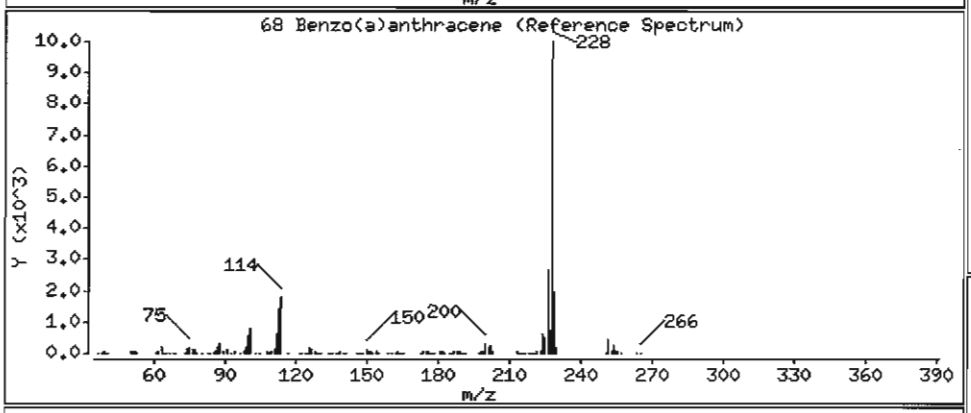
Column diameter: 0.32

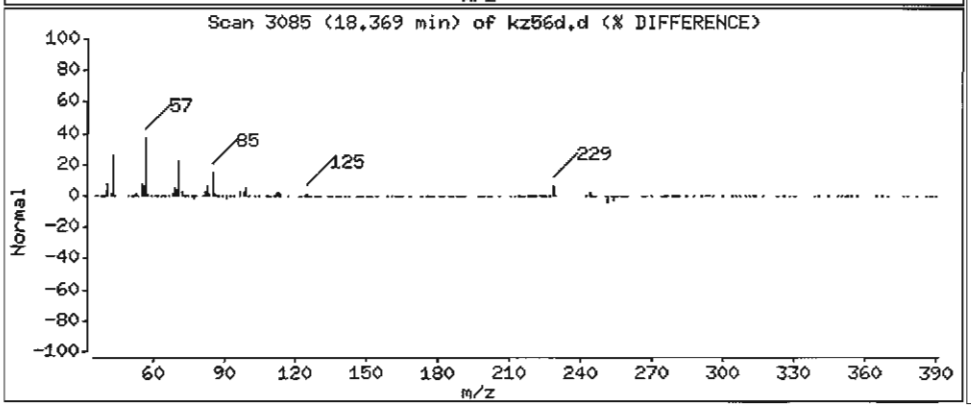
68 Benzo(a)anthracene

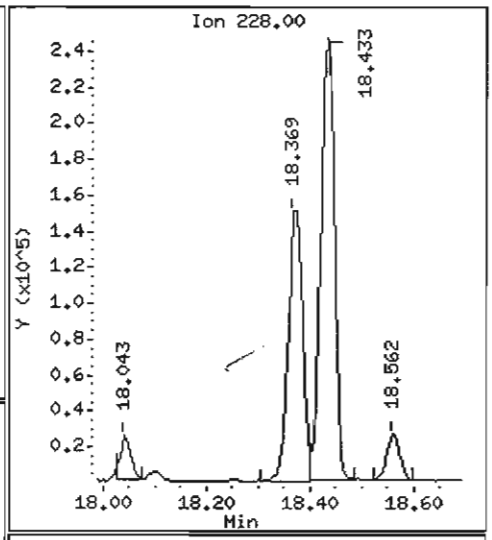
Concentration: 1188 ug/kg

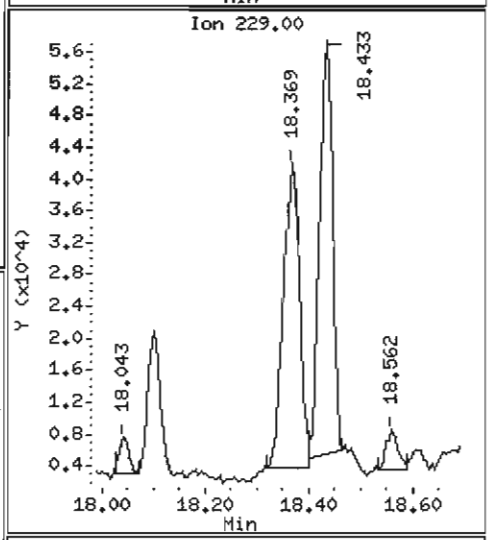


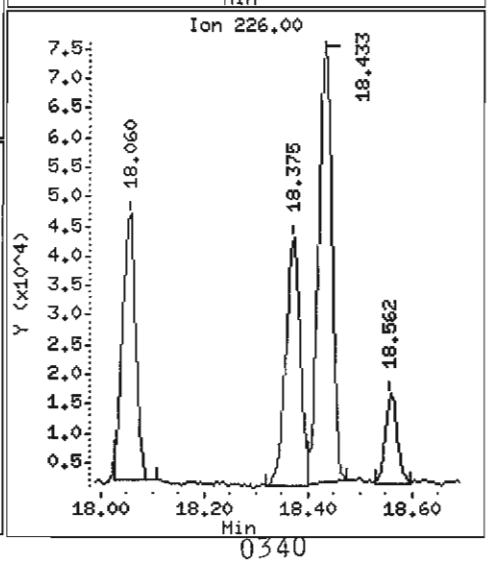












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

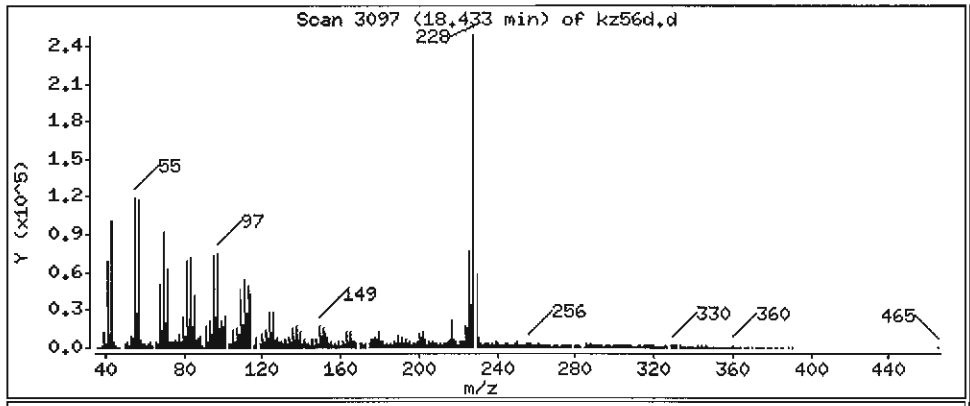
Operator: LJR/VTS

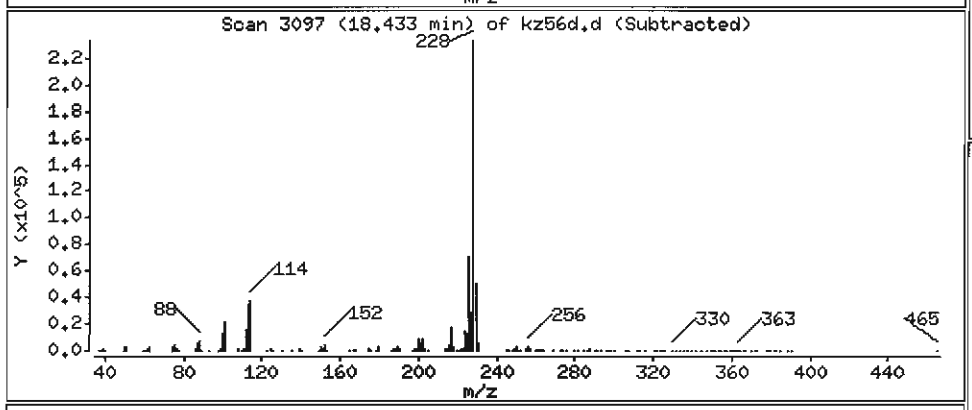
Column phase: ZB-5

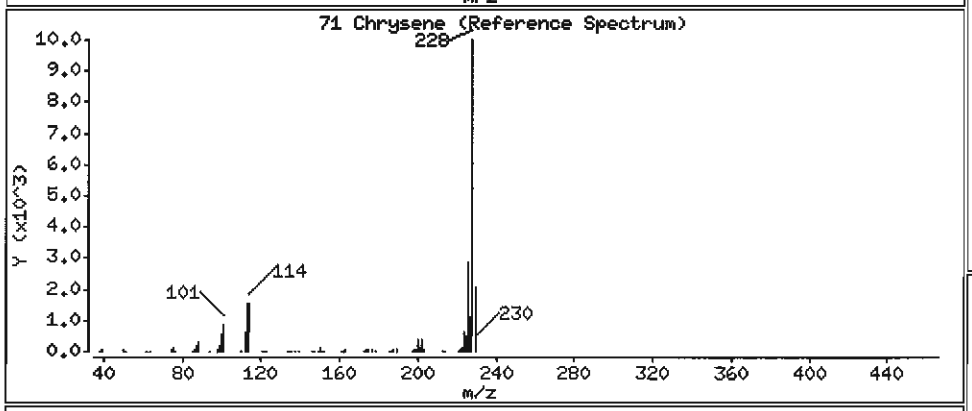
Column diameter: 0.32

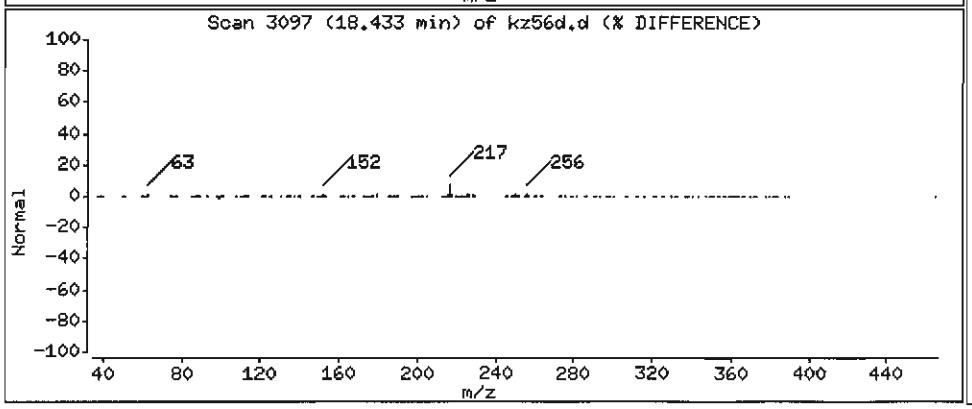
71 Chrysene

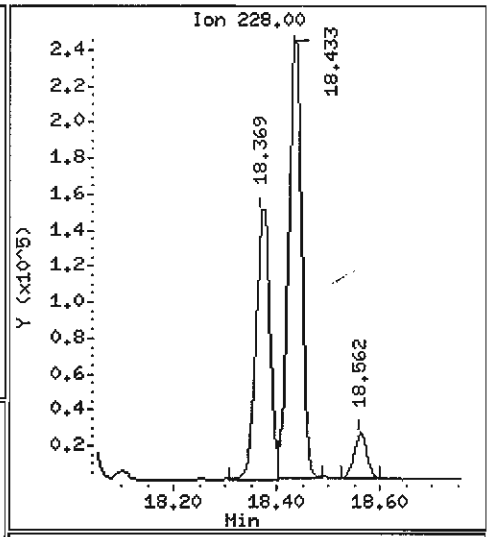
Concentration: 1762 ug/kg

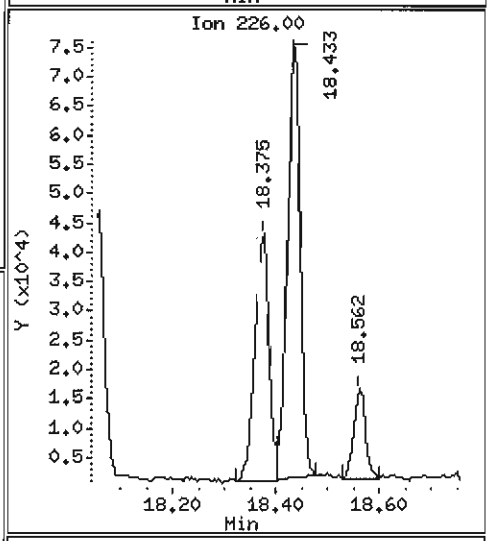


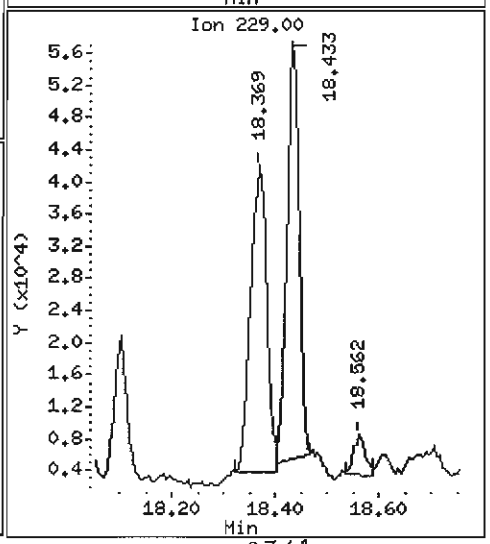












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

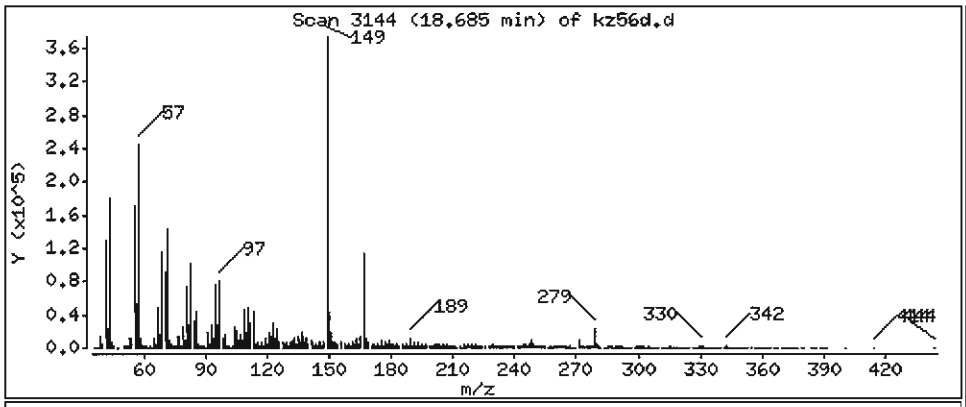
Operator: LJR/VTS

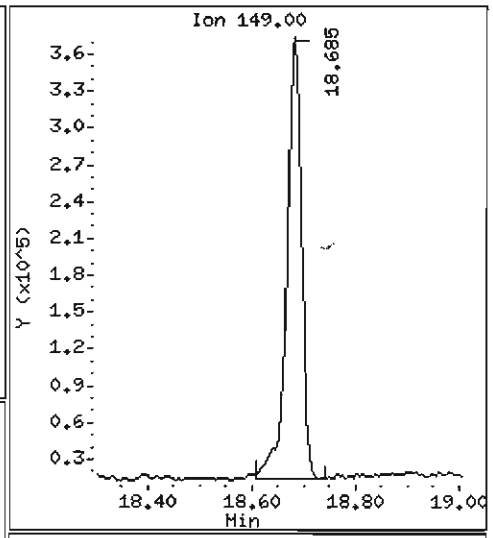
Column phase: ZB-5

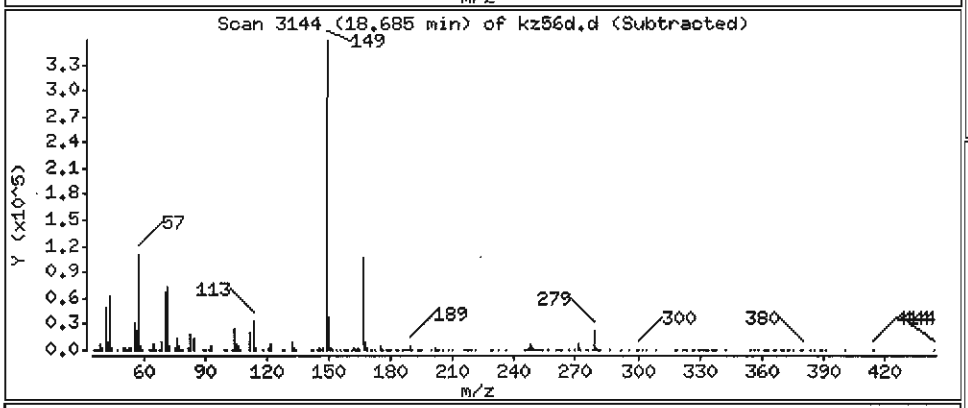
Column diameter: 0.32

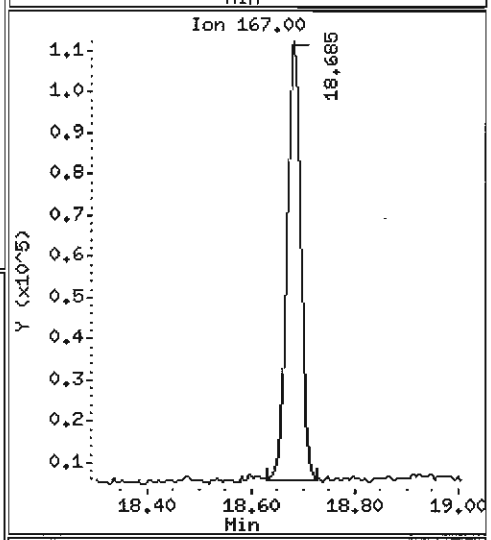
72 bis(2-Ethylhexyl)phthalate

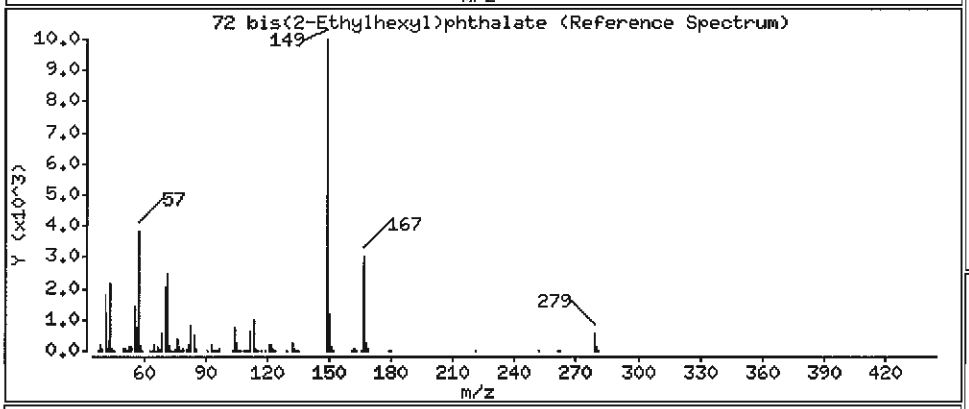
Concentration: 4188 ug/kg

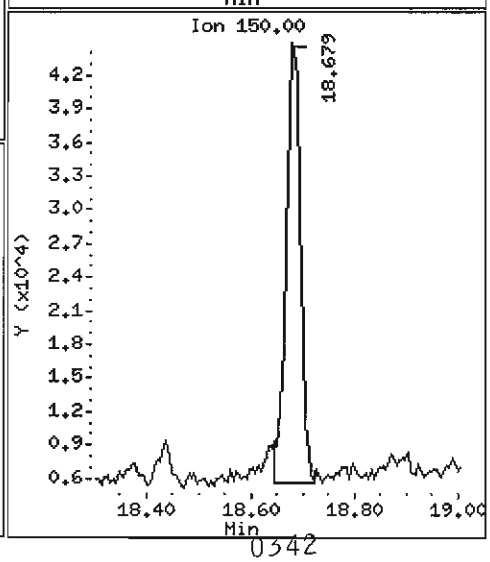


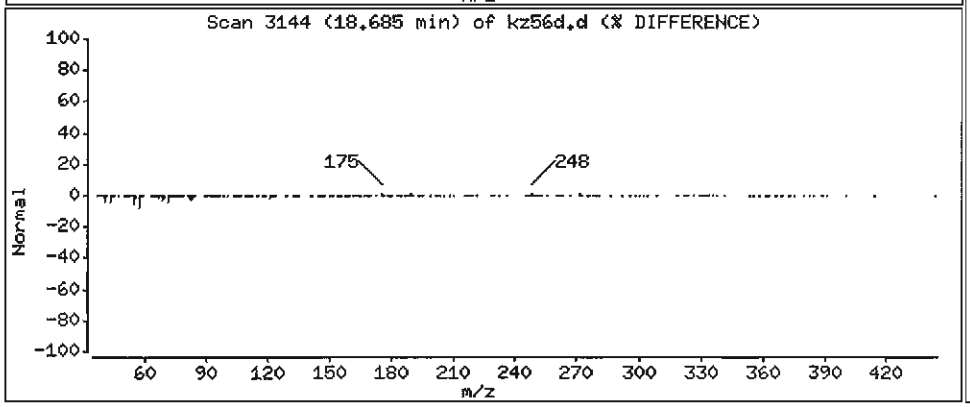












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

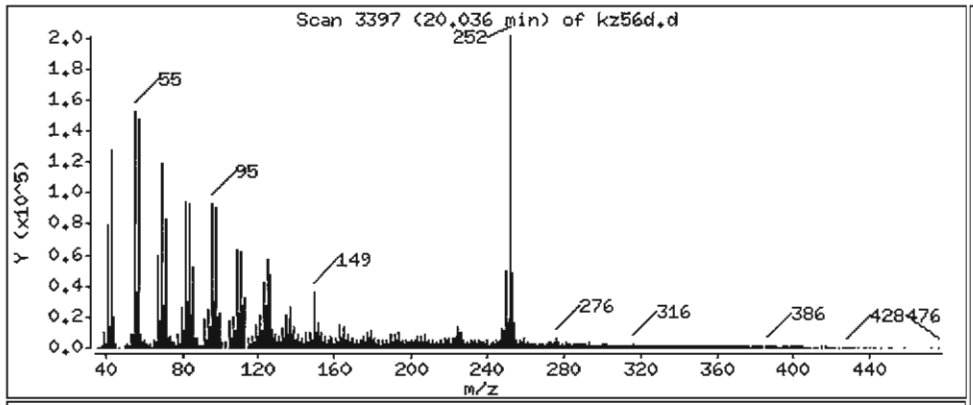
Operator: LJR/VTS

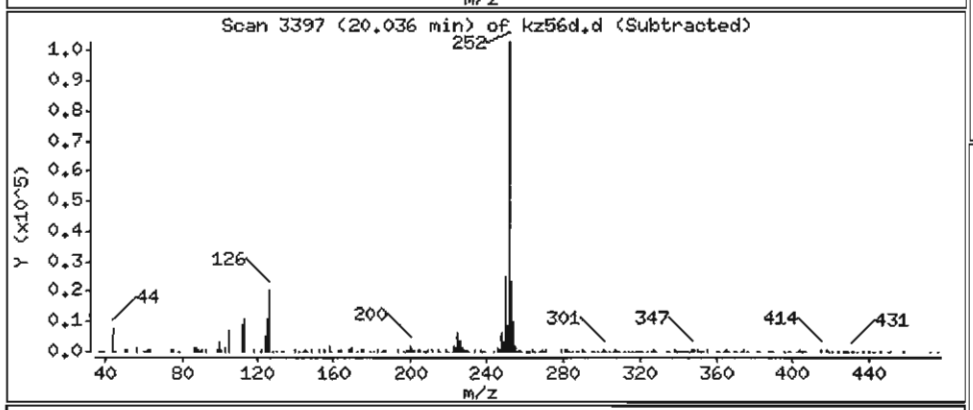
Column phase: ZB-5

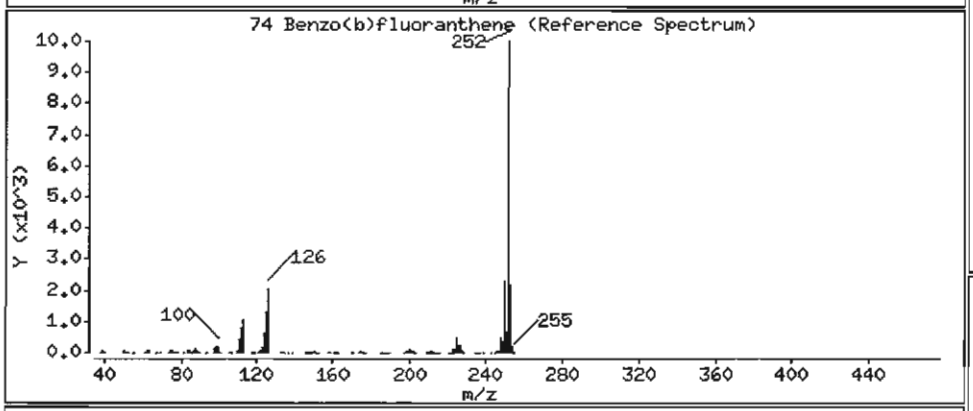
Column diameter: 0.32

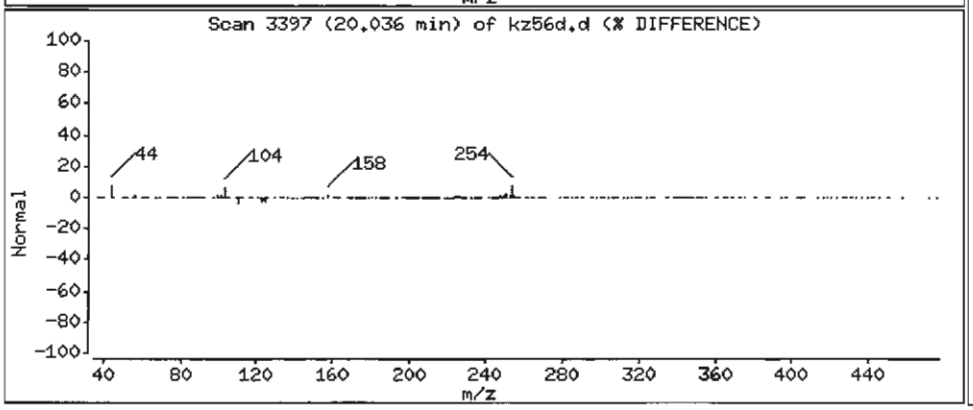
74 Benzo(b)fluoranthene

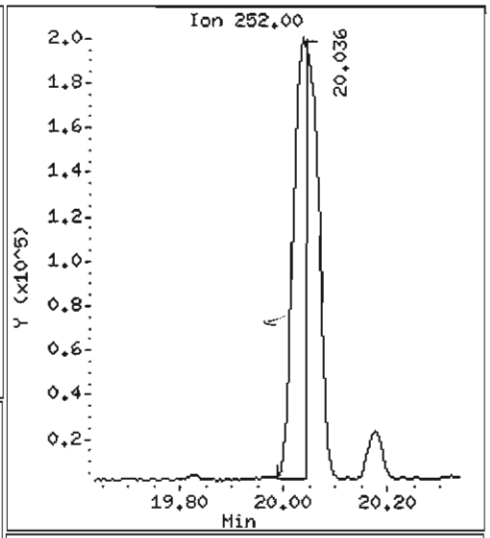
Concentration: 1944 ug/kg

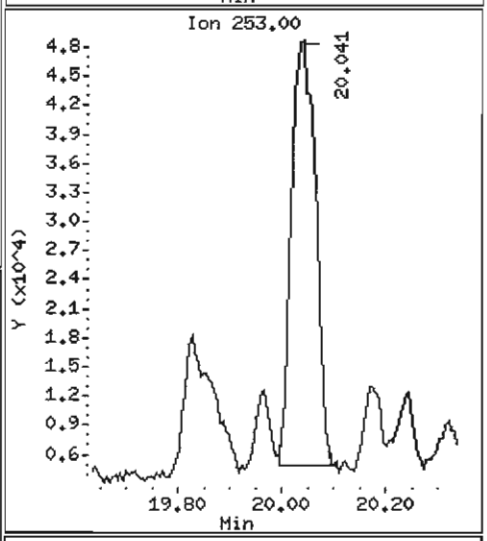


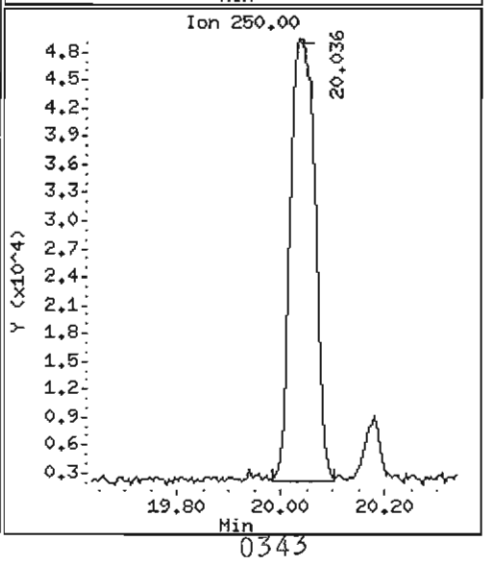












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

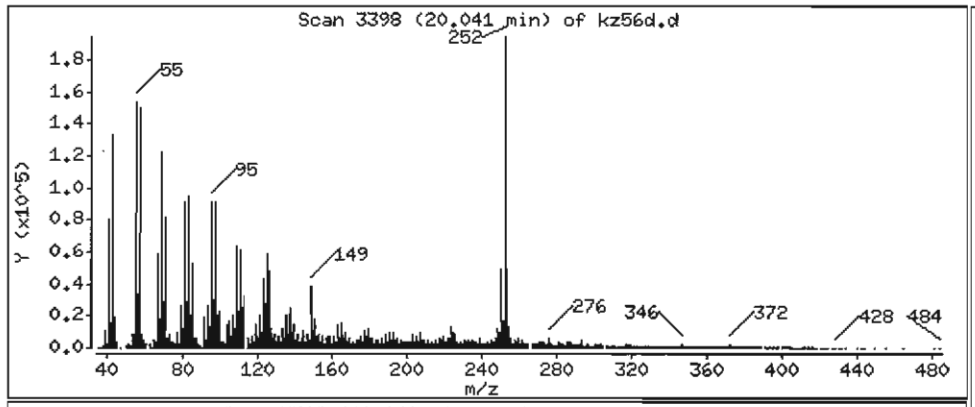
Operator: LJR/VTS

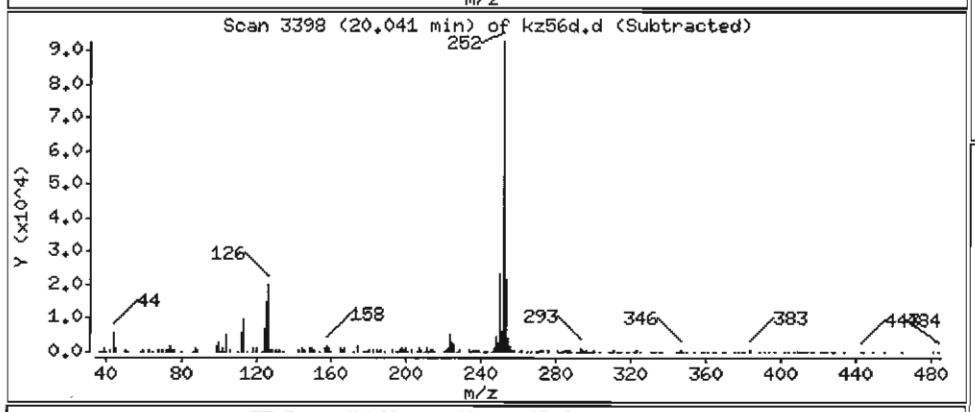
Column phase: ZB-5

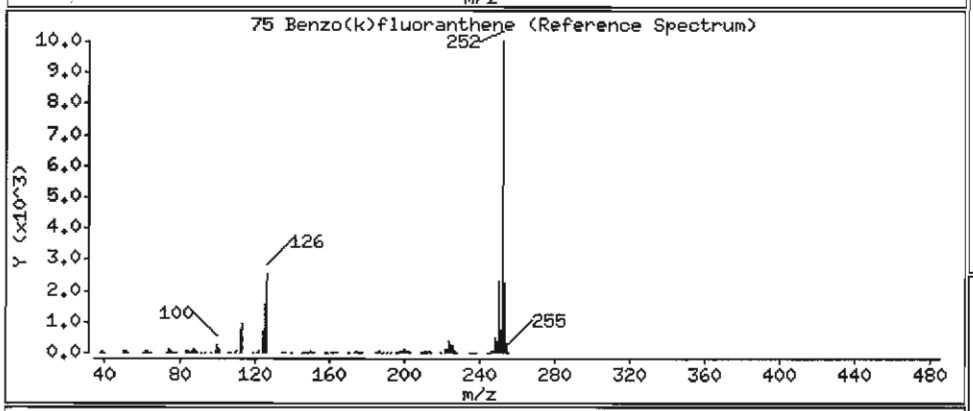
Column diameter: 0.32

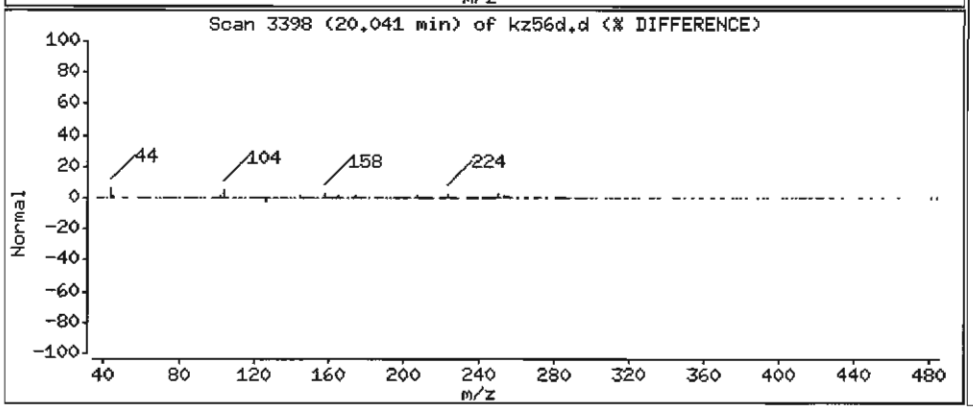
75 Benzo(k)fluoranthene

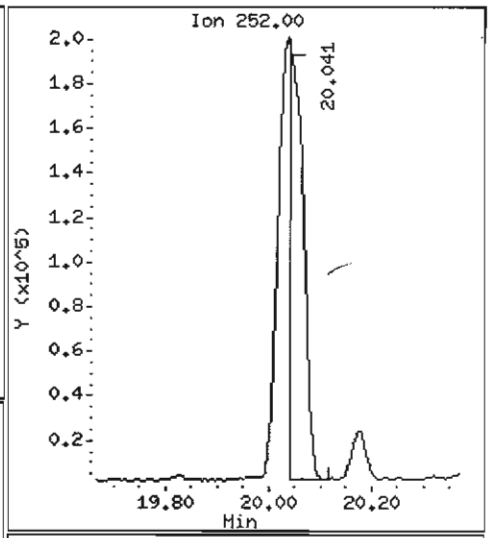
Concentration: 2067 ug/kg

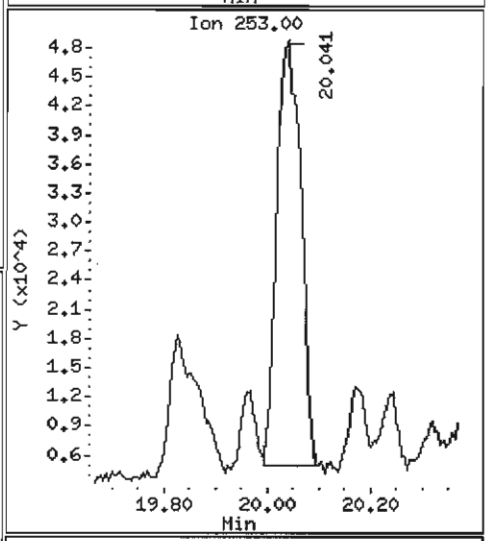


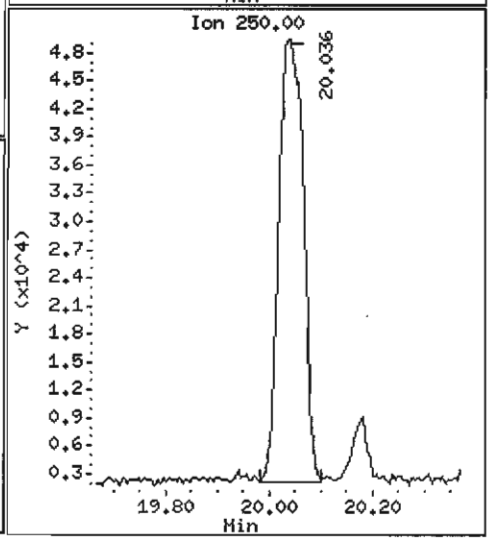












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

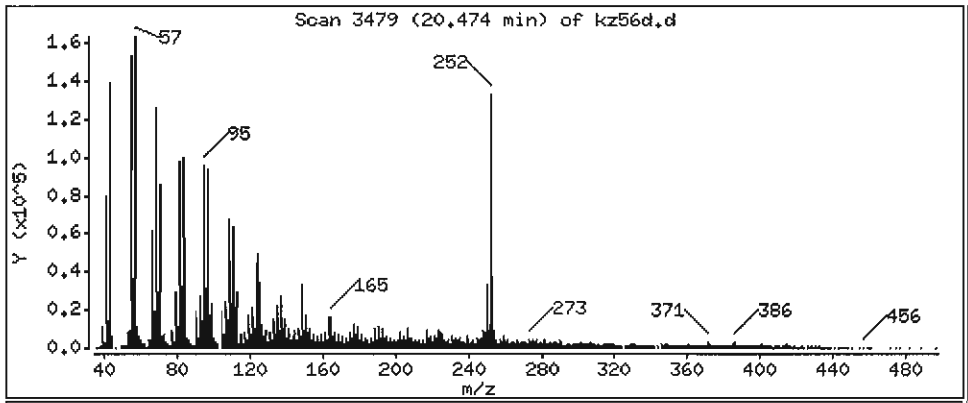
Operator: LJR/VTS

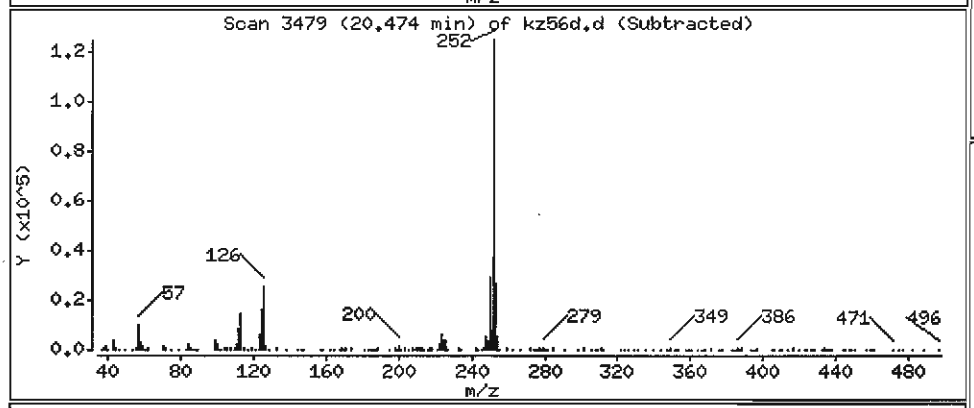
Column phase: ZB-5

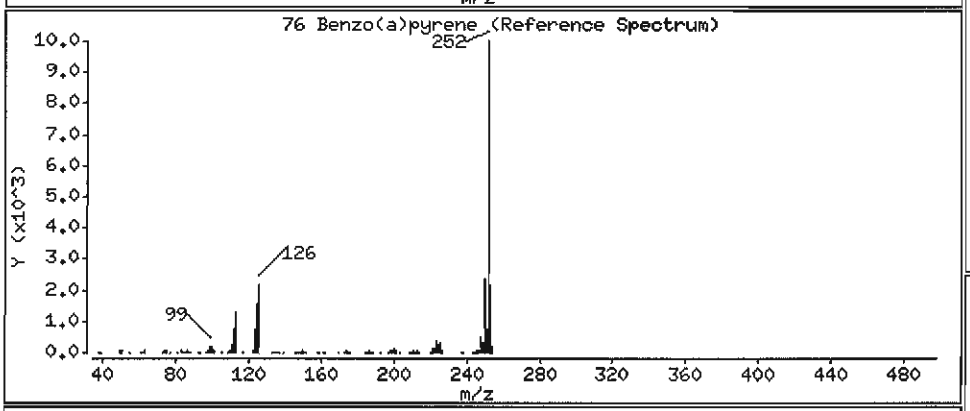
Column diameter: 0.32

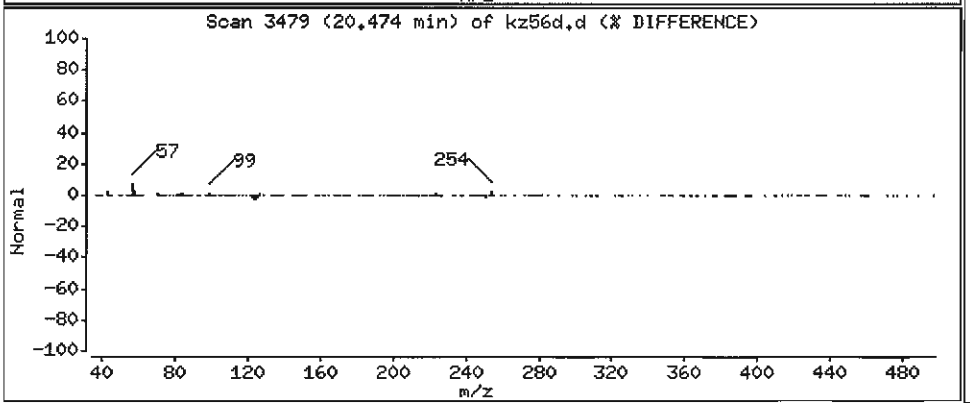
76 Benzo(a)pyrene

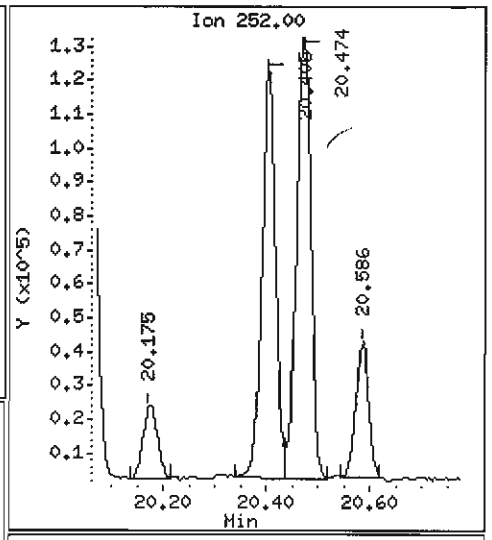
Concentration: 1387 ug/kg

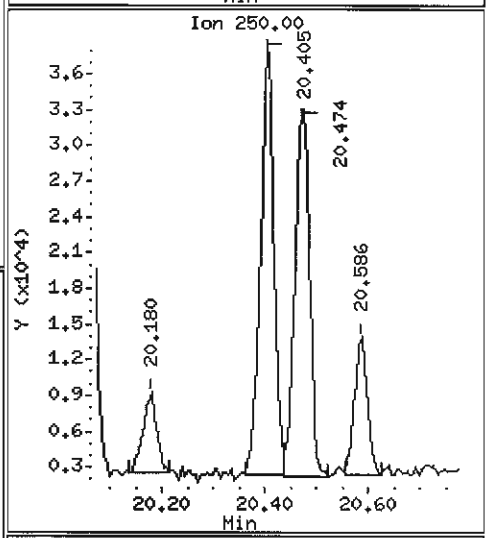


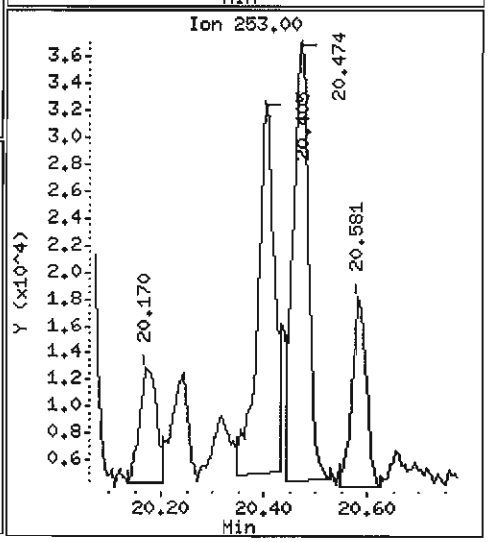












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

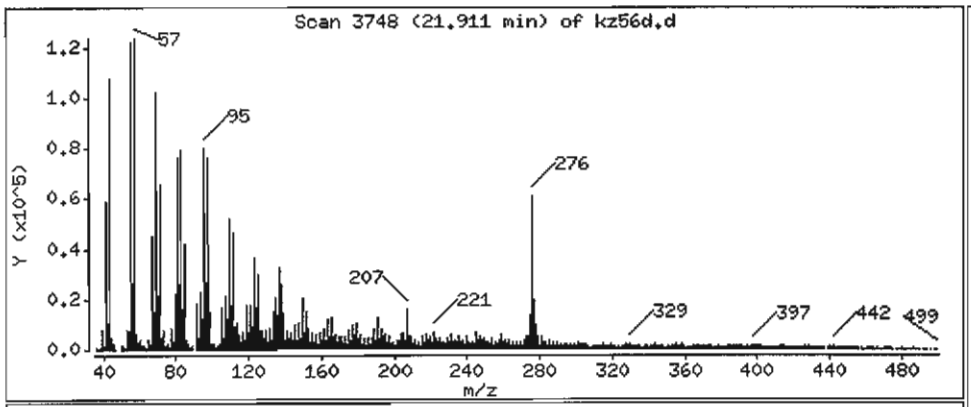
Operator: LJR/VTS

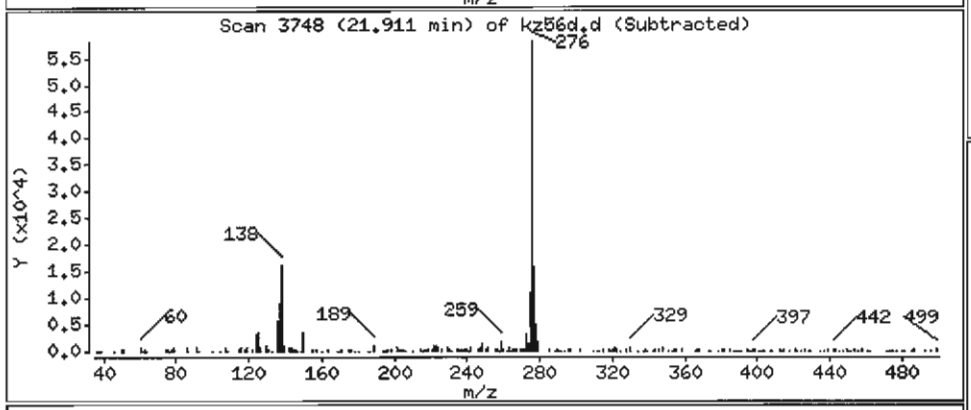
Column phase: ZB-5

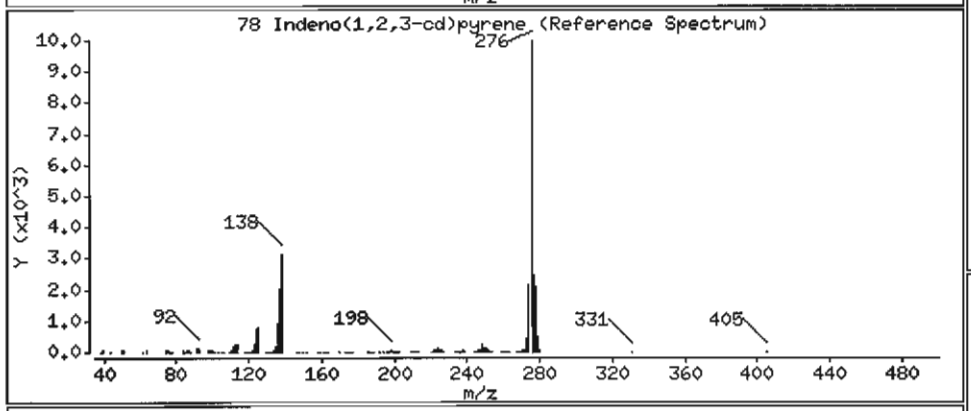
Column diameter: 0.32

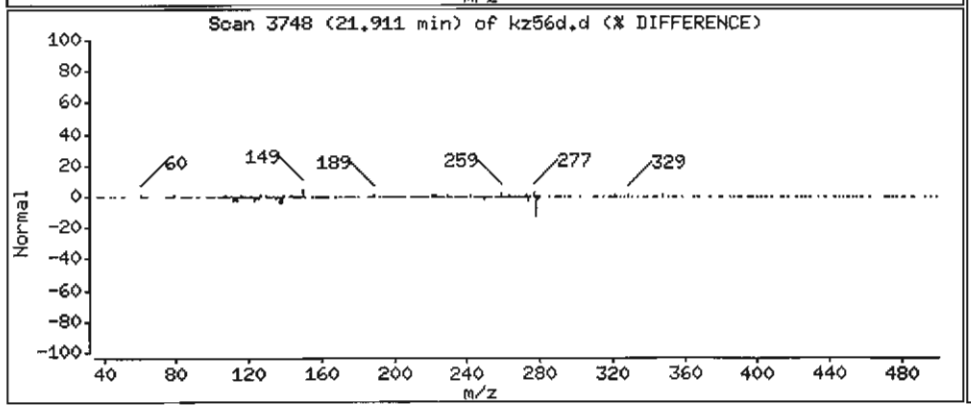
78 Indeno(1,2,3-cd)pyrene

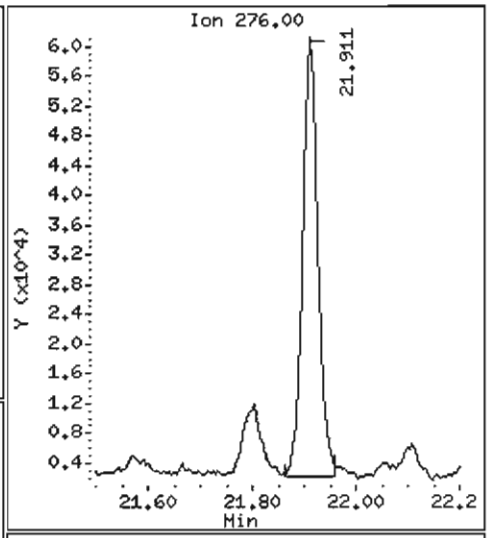
Concentration: 563.9 ug/kg

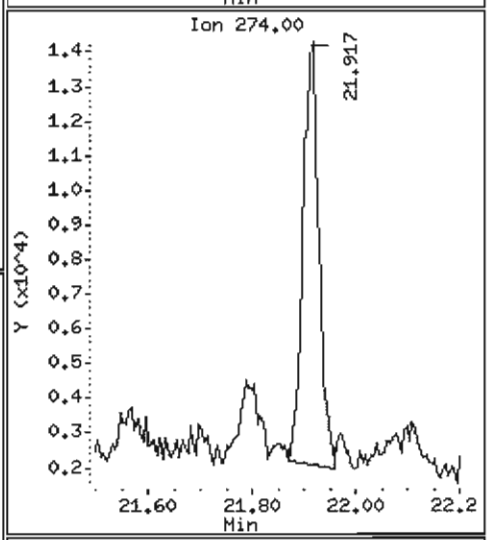


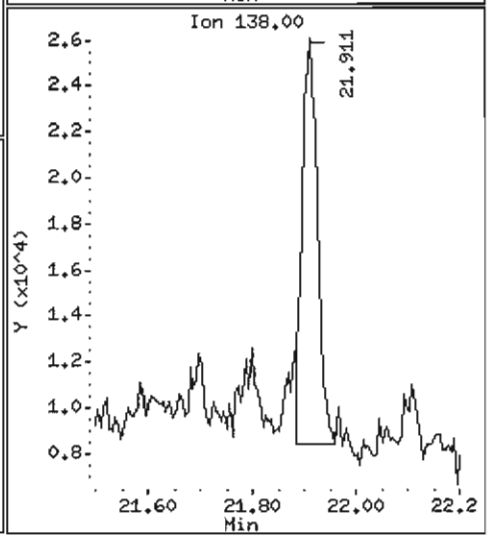












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

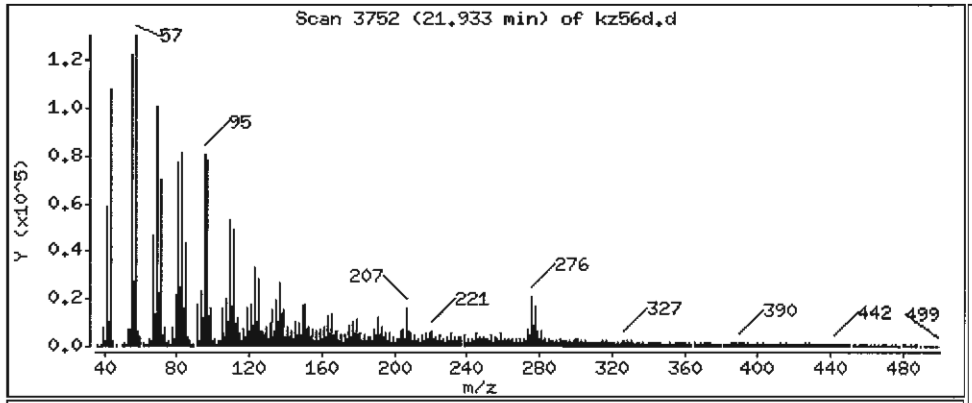
Operator: LJR/VTS

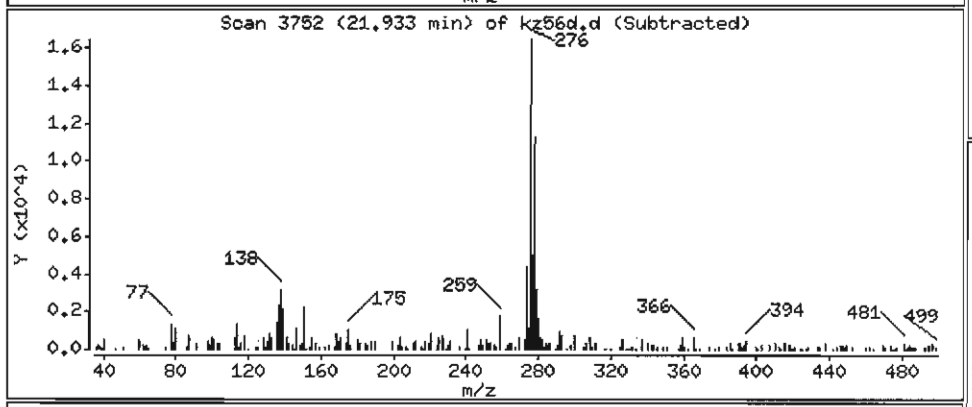
Column phase: ZB-5

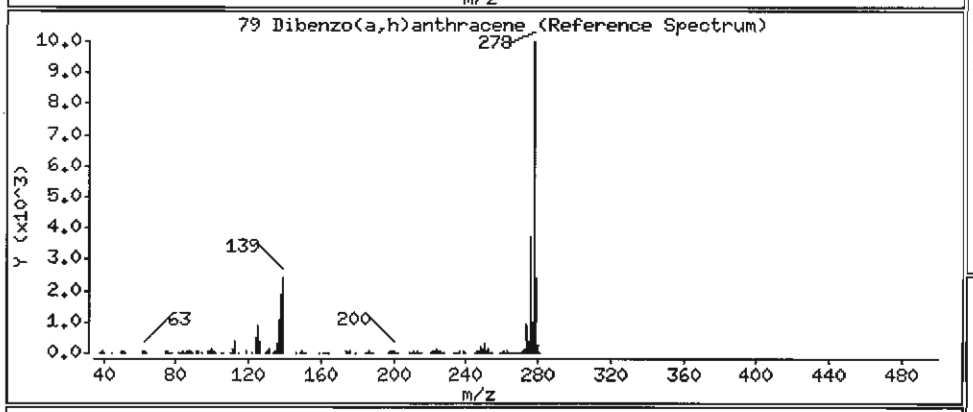
Column diameter: 0.32

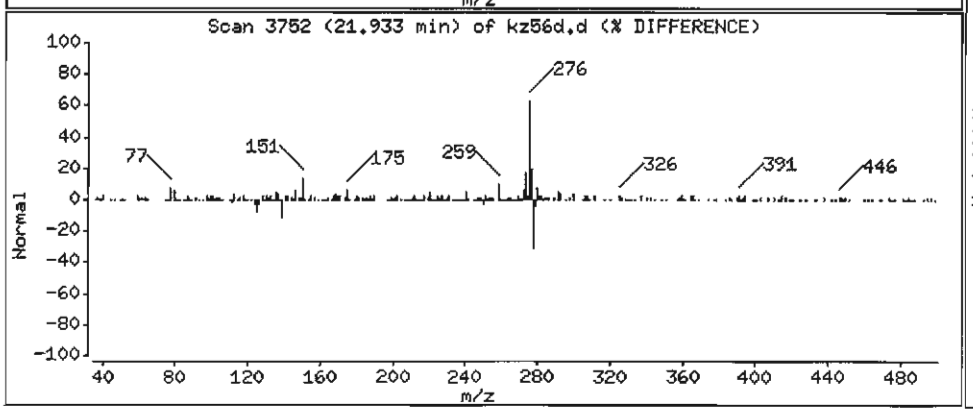
79 Dibenzo(a,h)anthracene

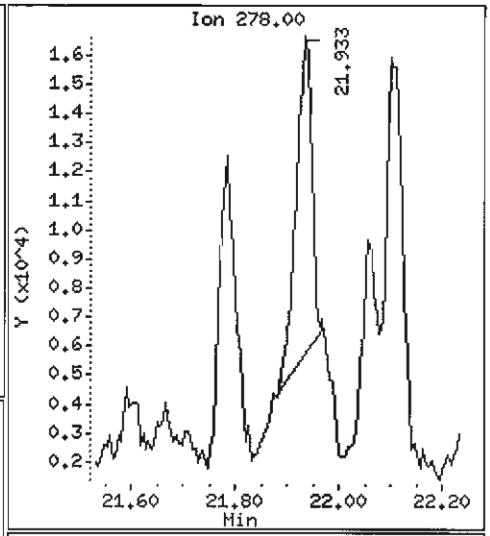
Concentration: 126.0 ug/kg

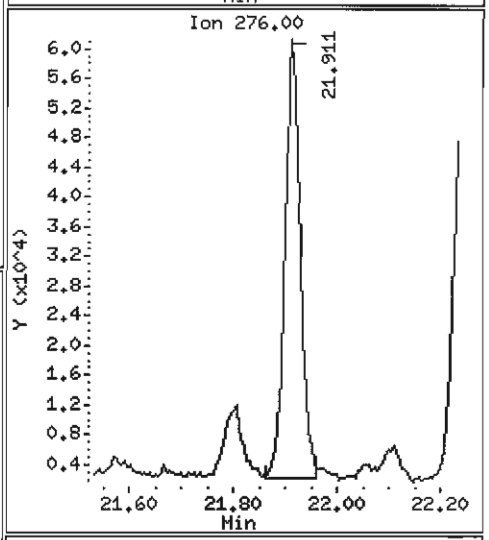


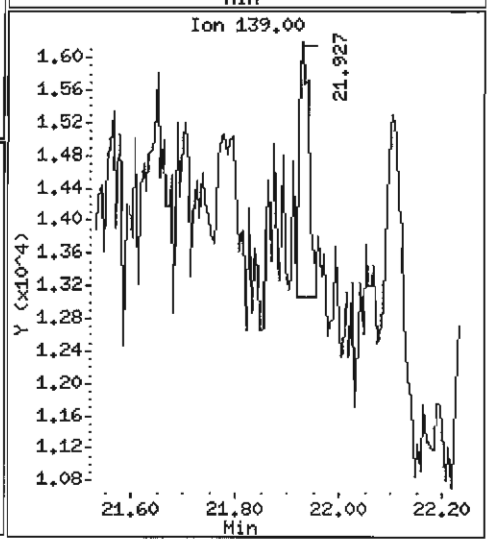












Data File: /chem1/nt6.i/20070526.b/kz56d.d

Date : 26-MAY-2007 20:26

Client ID: Y3-RC14-S

Instrument: nt6.i

Sample Info: KZ56D,3

Volume Injected (uL): 1.0

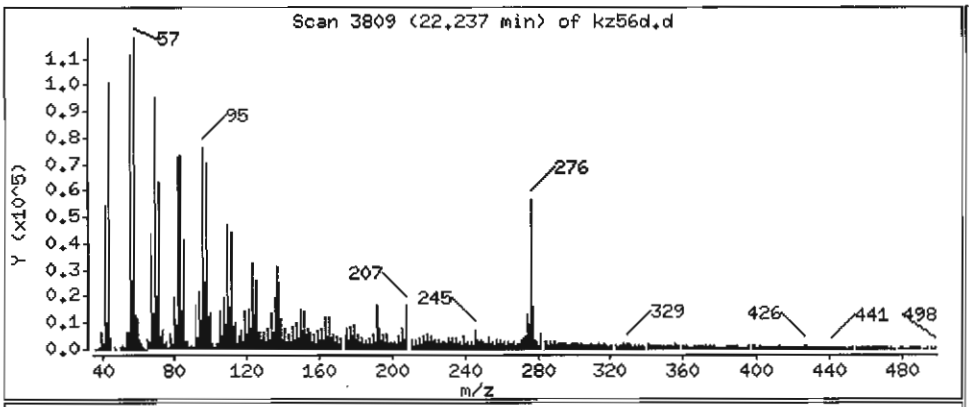
Operator: LJR/VTS

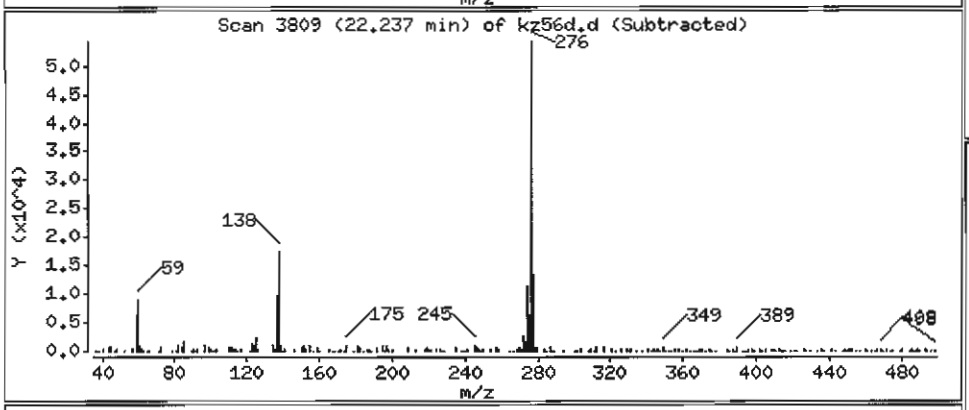
Column phase: ZB-5

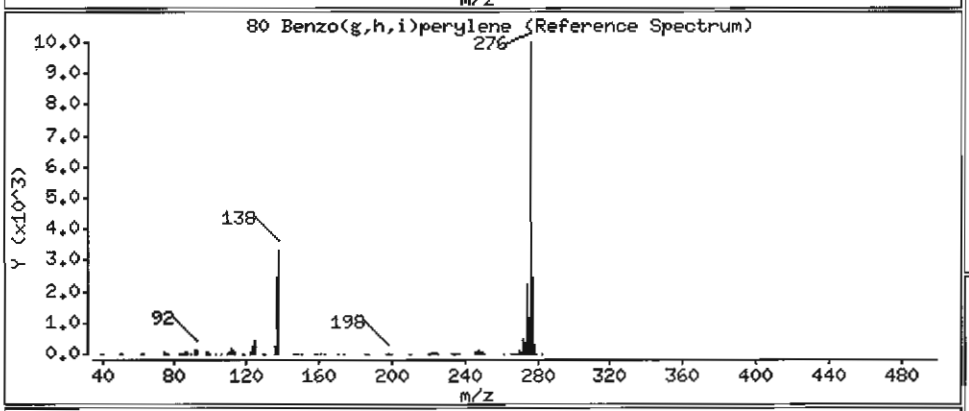
Column diameter: 0.32

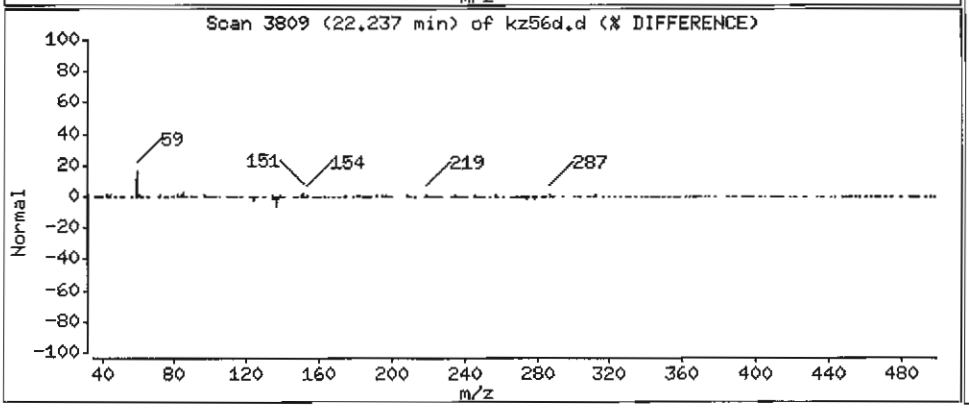
80 Benzo(g,h,i)perylene

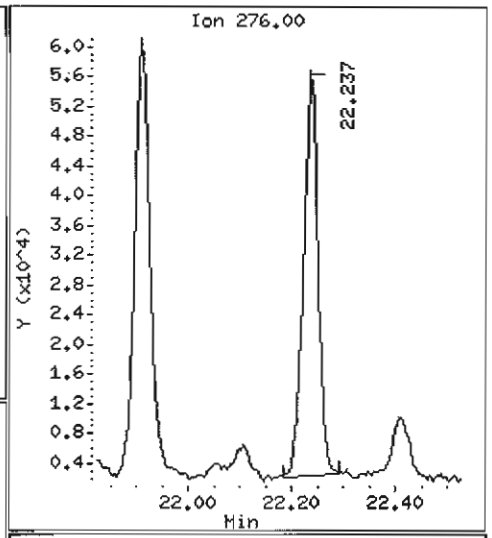
Concentration: 540.7 ug/kg

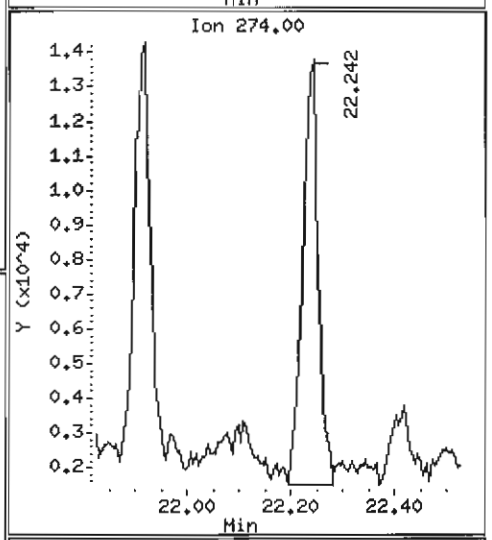


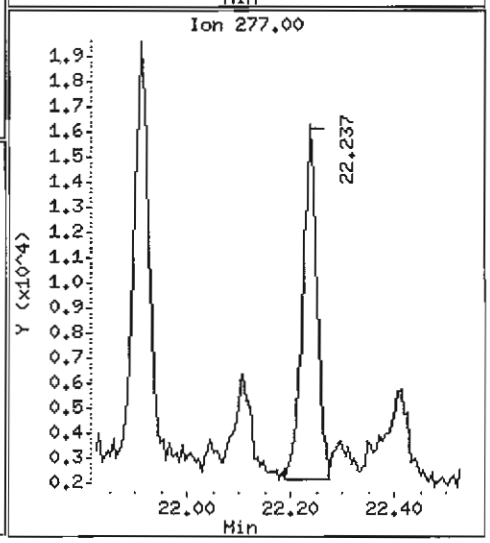












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC10-S
SAMPLE

Lab Sample ID: KZ56E
LIMS ID: 07-9551
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 20:59
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 44.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 25.3%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	44 J
91-57-6	2-Methylnaphthalene	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
132-64-9	Dibenzofuran	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	310
120-12-7	Anthracene	67	60 J
206-44-0	Fluoranthene	67	720
129-00-0	Pyrene	67	660
56-55-3	Benzo(a)anthracene	67	280
117-81-7	bis(2-Ethylhexyl)phthalate	67	1,600
218-01-9	Chrysene	67	450
205-99-2	Benzo(b)fluoranthene	67	550
207-08-9	Benzo(k)fluoranthene	67	460
50-32-8	Benzo(a)pyrene	67	340
193-39-5	Indeno(1,2,3-cd)pyrene	67	160
53-70-3	Dibenz(a,h)anthracene	67	35 J
191-24-2	Benzo(g,h,i)perylene	67	170

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.6%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	63.6%	d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	60.6%	2-Fluorophenol	52.4%
2,4,6-Tribromophenol	61.5%	d4-2-Chlorophenol	61.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56e.d
Lab Smp Id: KZ56E
Client Smp ID: Y3-RC10-S
Inj Date : 26-MAY-2007 20:59
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56E,3
Misc Info : 07-9551
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 12
Dil Factor: 3.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	60.10000	Weight of sample extracted (g)
M	25.30000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.008	4.981	(0.726)	132505	6.54508	437.4
$ 2 Phenol-d5	99	6.535	6.514	(0.948)	179913	7.57398	506.1
3 Phenol	94	6.551	6.536	(0.950)	14010	0.53725 LDL	35.90
$ 5 2-Chlorophenol-d4	132	6.610	6.595	(0.959)	125172	7.62095	509.3
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.893	6.883	(1.000)	222676	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.182	7.177	(1.042)	50254	5.00355	334.4
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.812	7.807	(0.877)	102002	5.37~~498~~	359.2
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.907	8.902	(1.000)	797530	20.0~~000~~	
	28 Naphthalene	128	8.934	8.934	(1.003)	31013	0.65651 LDL	43.87
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.708	10.703	(0.912)	147770	5.47~~401~~	365.8
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.744	11.734	(1.000)	399979	20.0~~000~~	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.031	13.021	(1.110)	31297	7.68~~569~~	513.6
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.100	14.084	(1.000)	504734	20.0~~000~~	
	60 Phenanthrene	178	14.132	14.122	(1.002)	158027	4.69~~143~~	313.5
	61 Anthracene	178	14.207	14.196	(1.008)	31086	0.89316 LDL	59.68
	62 Carbazole	167	14.506	14.496	(1.029)	31051	1.03~~679~~	69.28
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	16.060	16.045	(1.139)	343057	10.7343	717.3
65 Pyrene	202	16.408	16.392	(0.892)	321836	9.94556	664.6
$ 66 Terphenyl-d14	244	16.750	16.734	(0.911)	108610	5.30086	354.2
67 Butylbenzylphthalate	149	17.652	17.642	(0.960)	19129	1.25725	84.01(M)
68 Benzo(a)anthracene	228	18.363	18.342	(0.999)	123219	4.22964	282.6
* 69 Chrysene-d12	240	18.390	18.369	(1.000)	389996	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.427	18.406	(1.002)	198313	6.72929	449.7
72 bis(2-Ethylhexyl)phthalate	149	18.678	18.657	(0.953)	483479	23.9231	1599
* 134 Di-n-octylphthalate-d4	153	19.602	19.587	(1.000)	589992	20.0000	
73 Di-n-octylphthalate	149	19.624	19.592	(1.001)	30710	0.87618 LOL	58.55(M)
74 Benzo(b)fluoranthene	252	20.019	19.987	(0.975)	191520	8.20219	548.1(M)
75 Benzo(k)fluoranthene	252	20.030	20.019	(0.975)	152930	6.81782	455.6(M)
76 Benzo(a)pyrene	252	20.457	20.425	(0.996)	119831	5.12723	342.6
* 77 Perylene-d12	264	20.537	20.505	(1.000)	360128	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.899	21.852	(1.066)	64912	2.34922	157.0
79 Dibenzo(a,h)anthracene	278	21.915	21.884	(1.067)	11992	0.52400 LOL	35.02(M)
80 Benzo(g,h,i)perylene	276	22.220	22.178	(1.082)	64566	2.55076	170.4(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56e.d
Lab Smp Id: KZ56E
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9551

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC10-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	222676	2.62
27 Naphthalene-d8	799420	399710	1598840	797530	-0.24
42 Acenaphthene-d10	390056	195028	780112	399979	2.54
59 Phenanthrene-d10	573879	286940	1147758	504734	-12.05
69 Chrysene-d12	366829	183414	733658	389996	6.32
134 Di-n-octylphthala	621709	310854	1243418	589992	-5.10
77 Perylene-d12	428868	214434	857736	360128	-16.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.15
27 Naphthalene-d8	8.90	8.40	9.40	8.91	0.06
42 Acenaphthene-d10	11.73	11.23	12.23	11.74	0.09
59 Phenanthrene-d10	14.08	13.58	14.58	14.10	0.11
69 Chrysene-d12	18.37	17.87	18.87	18.39	0.11
134 Di-n-octylphthala	19.59	19.09	20.09	19.60	0.08
77 Perylene-d12	20.51	20.01	21.01	20.54	0.15

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56E
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9551

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC10-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	835.3	437.4	52.36	22-91
$ 2 Phenol-d5	835.3	506.1	60.59	26-99
$ 5 2-Chlorophenol-d4	835.3	509.3	60.97	29-96
$ 10 1,2-Dichlorobenzen	556.9	334.4	60.04	24-87
$ 18 Nitrobenzene-d5	556.9	359.2	64.50	27-101
$ 36 2-Fluorobiphenyl	556.9	365.8	65.69	30-100
$ 55 2,4,6-Tribromophen	835.3	513.6	61.49	20-114
$ 66 Terphenyl-d14	556.9	354.2	63.60	12-120

Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Sample Info: KZ56E,3

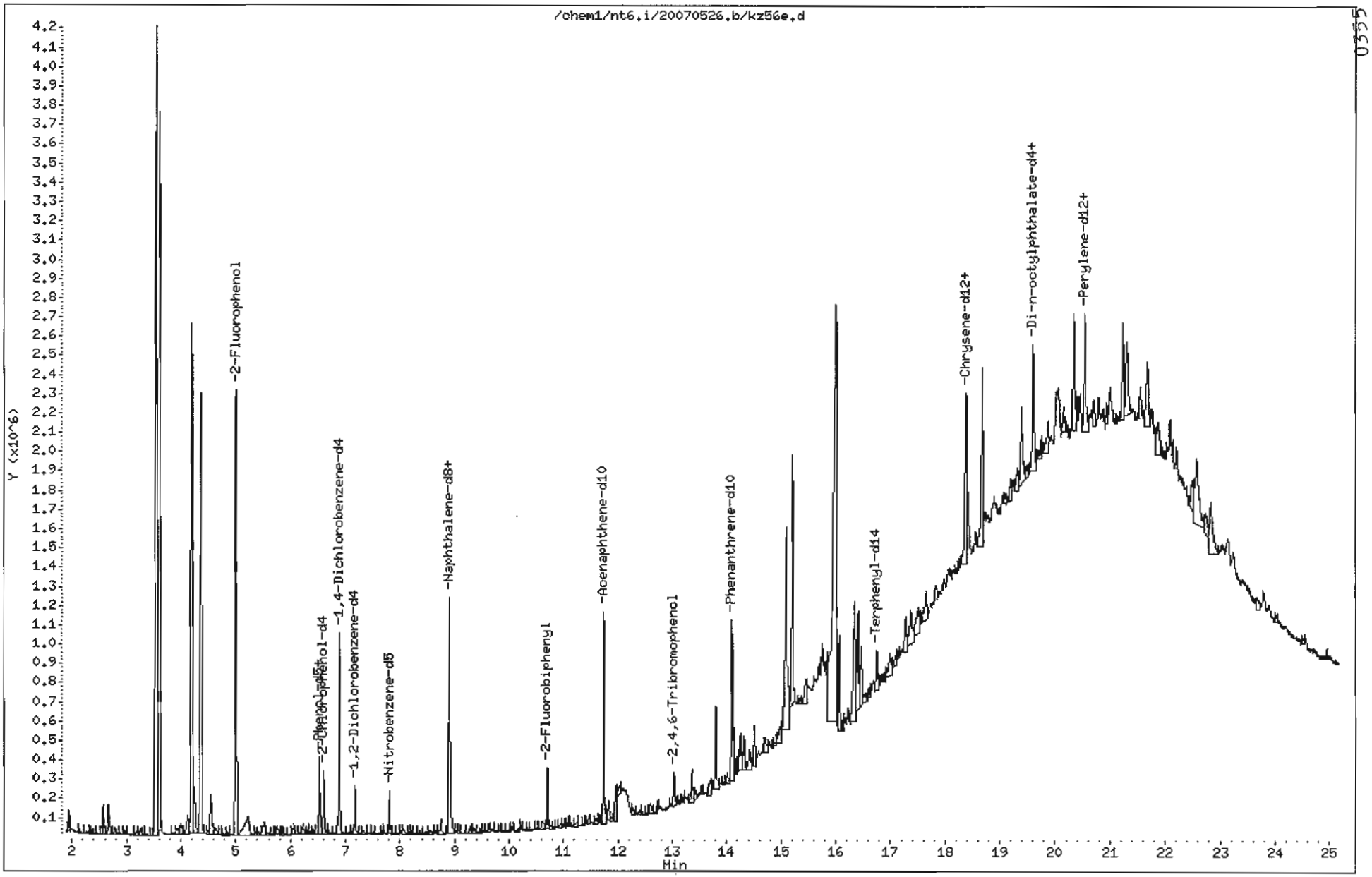
Volume Injected (uL): 1.0

Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32



0355

Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

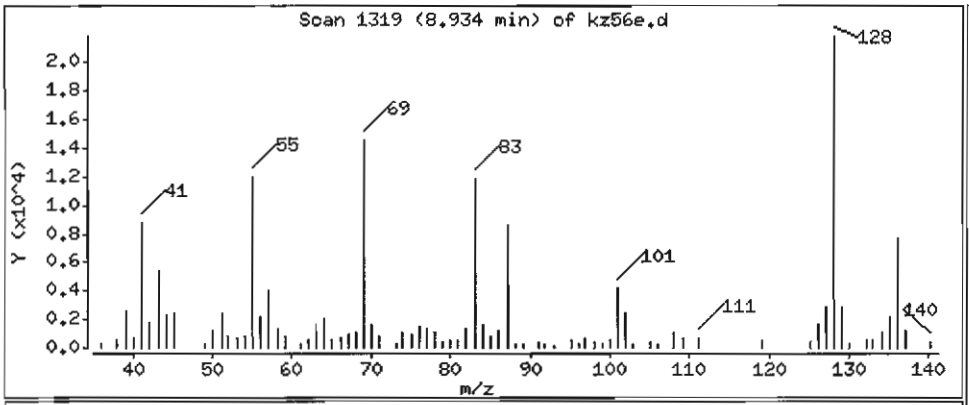
Operator: LJR/VTS

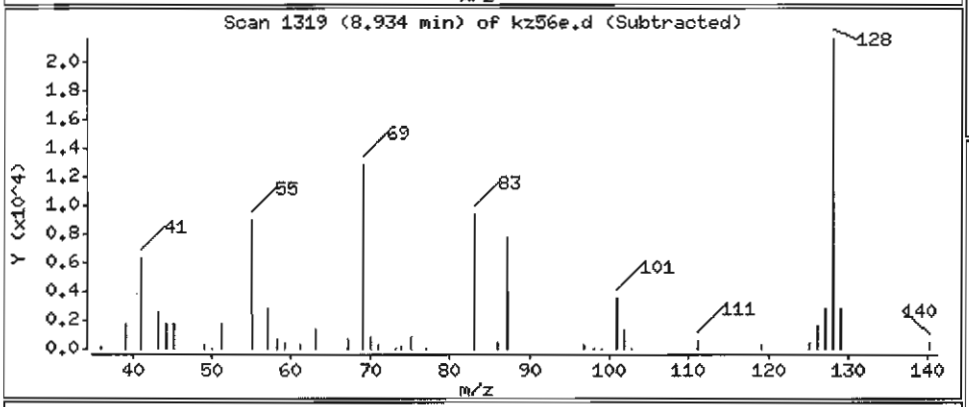
Column phase: ZB-5

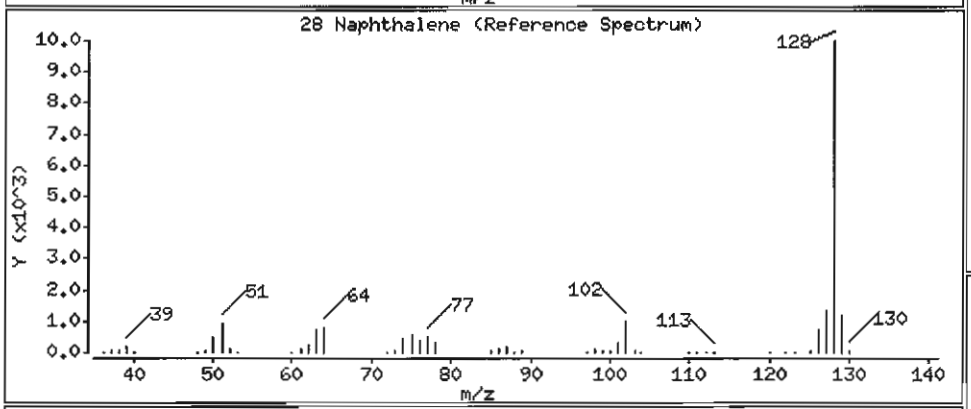
Column diameter: 0.32

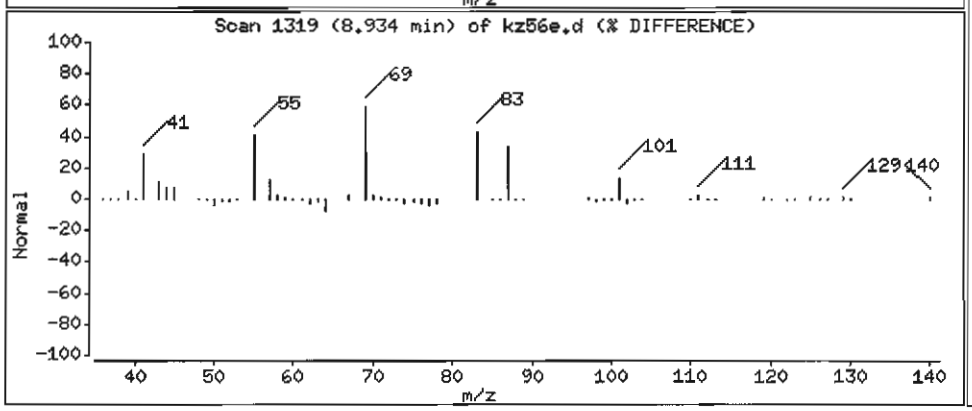
28 Naphthalene

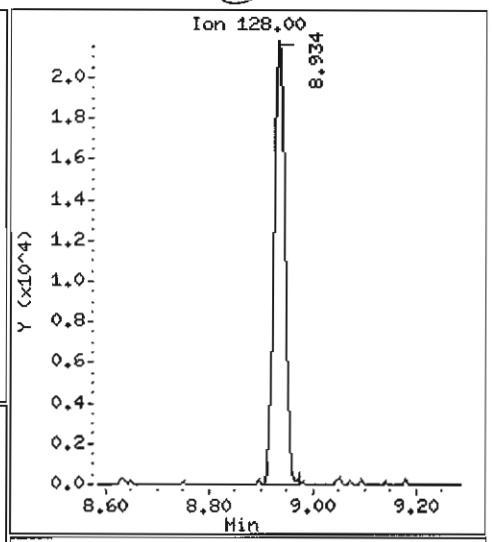
Concentration: 43.87 ug/kg

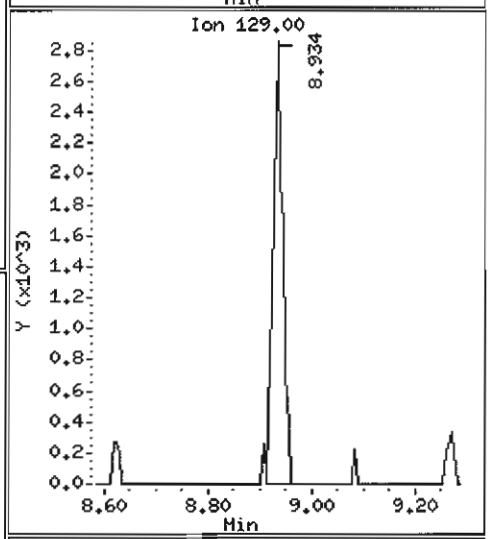


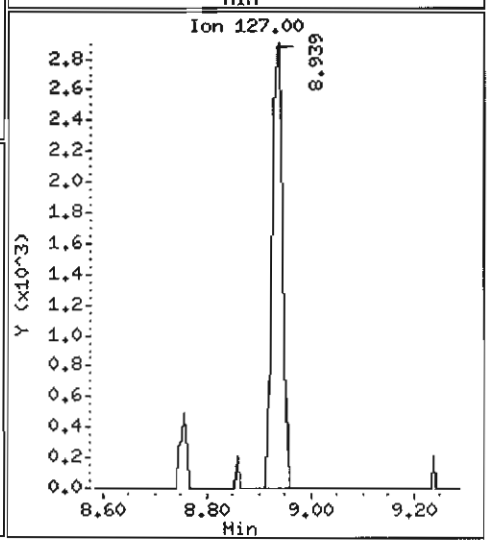












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

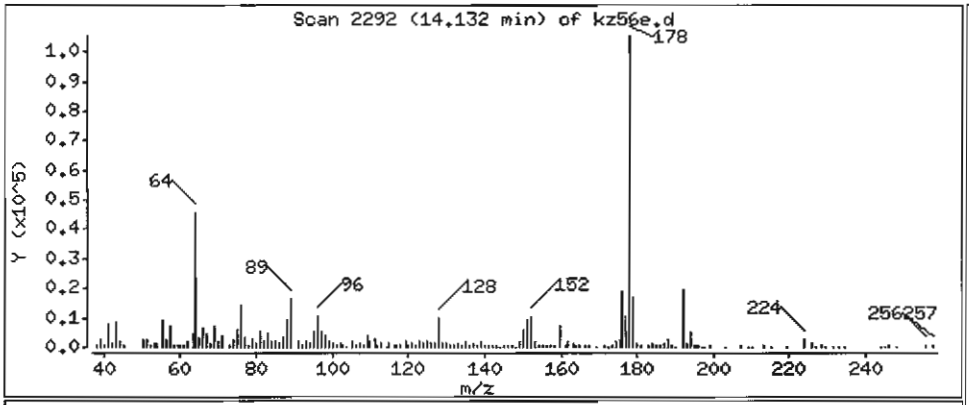
Operator: LJR/VTS

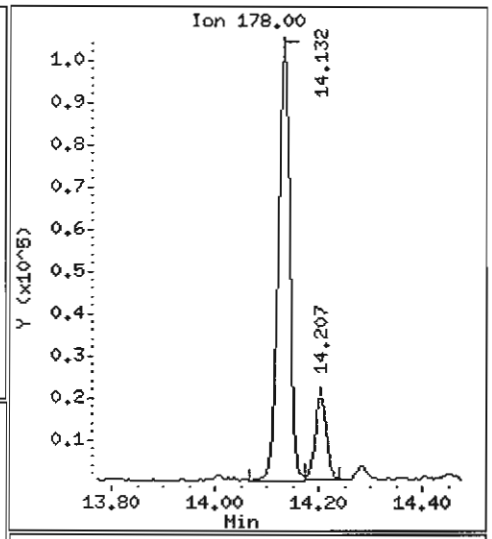
Column phase: ZB-5

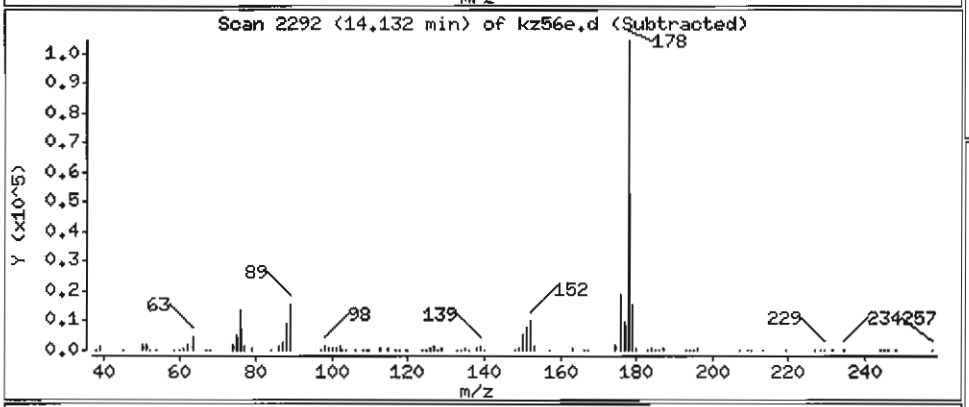
Column diameter: 0.32

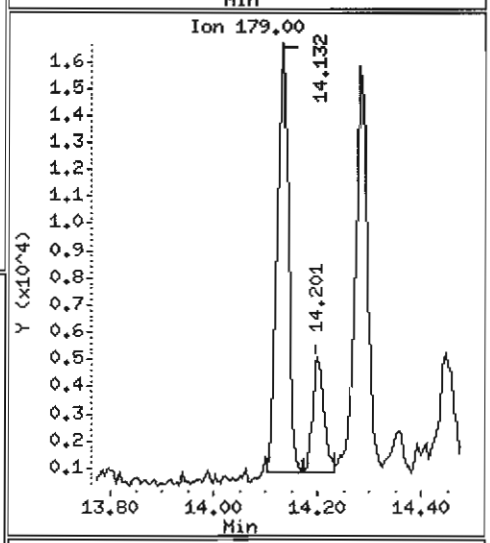
60 Phenanthrene

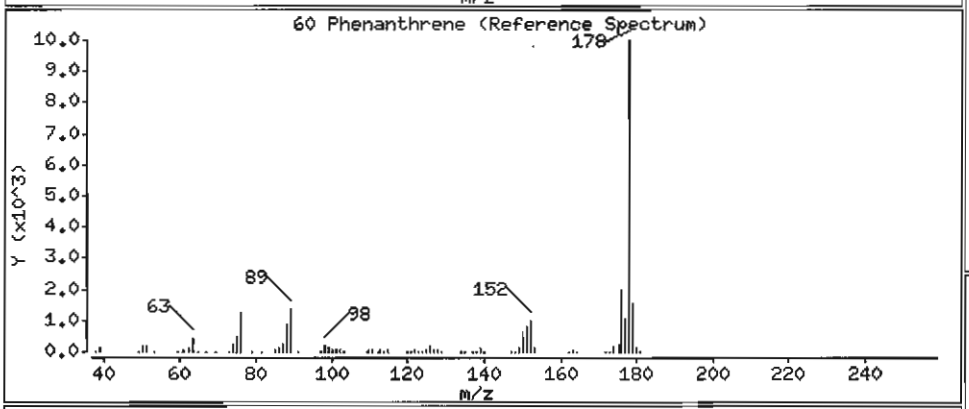
Concentration: 313.5 ug/kg

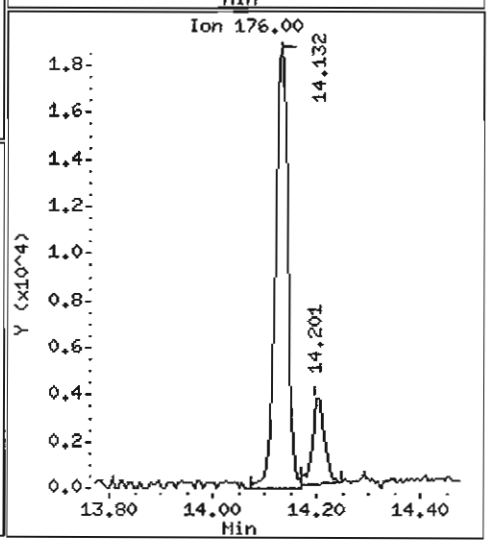


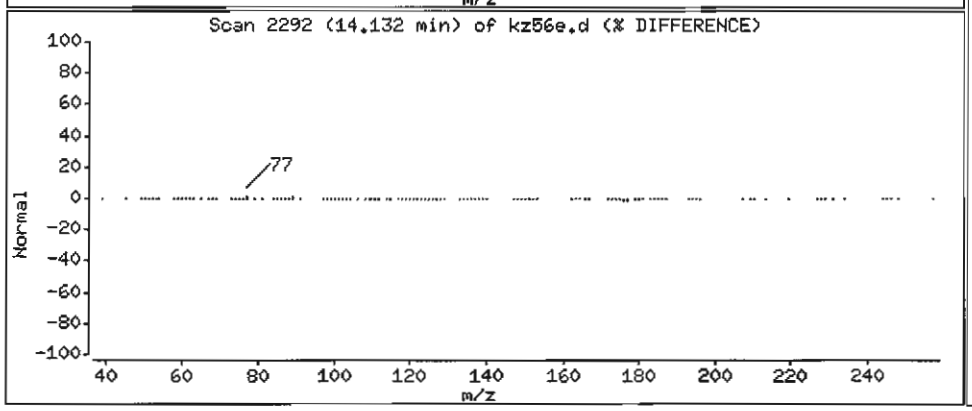












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

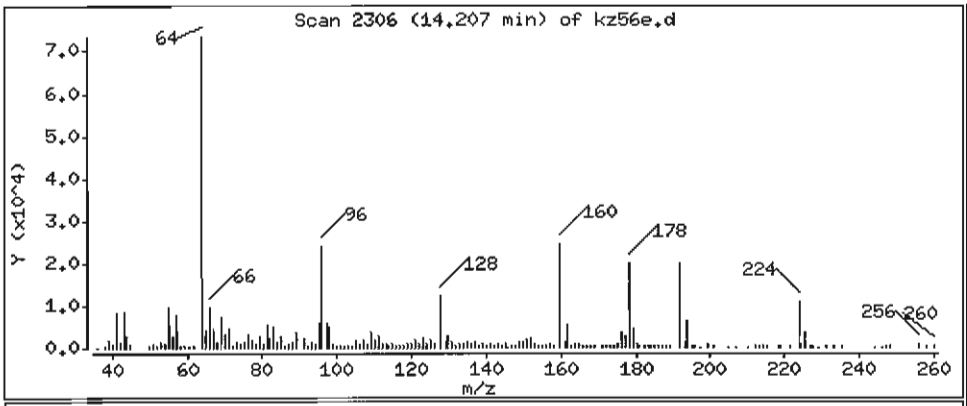
Column phase: ZB-5

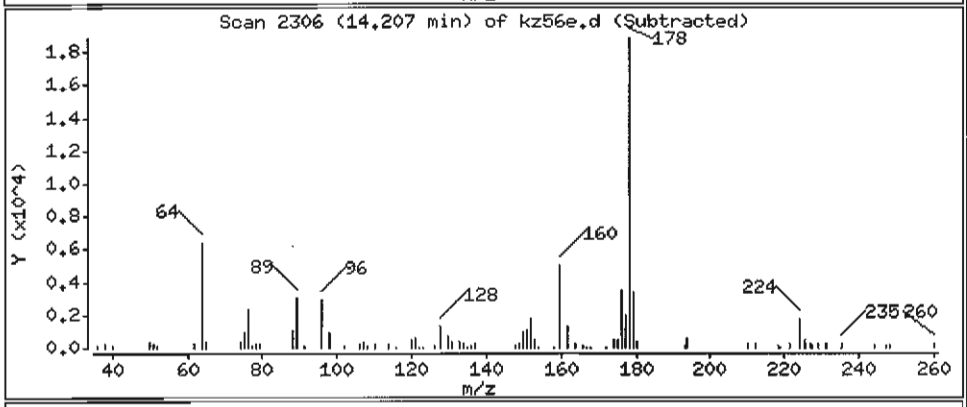
Column diameter: 0.32

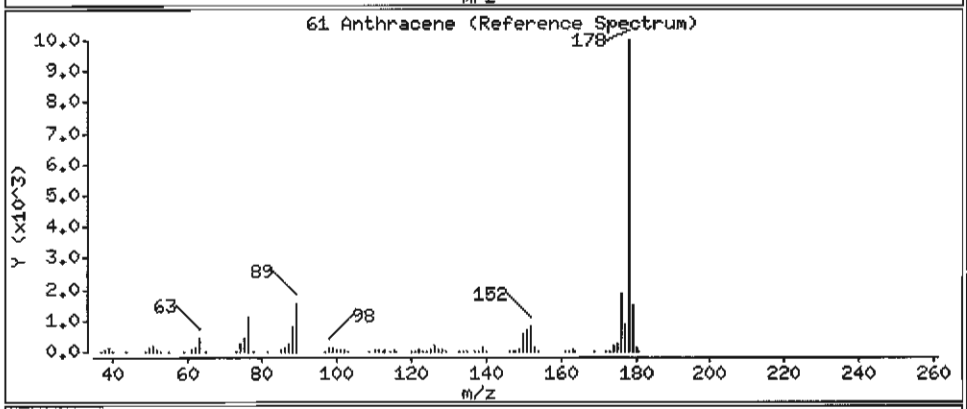
61 Anthracene

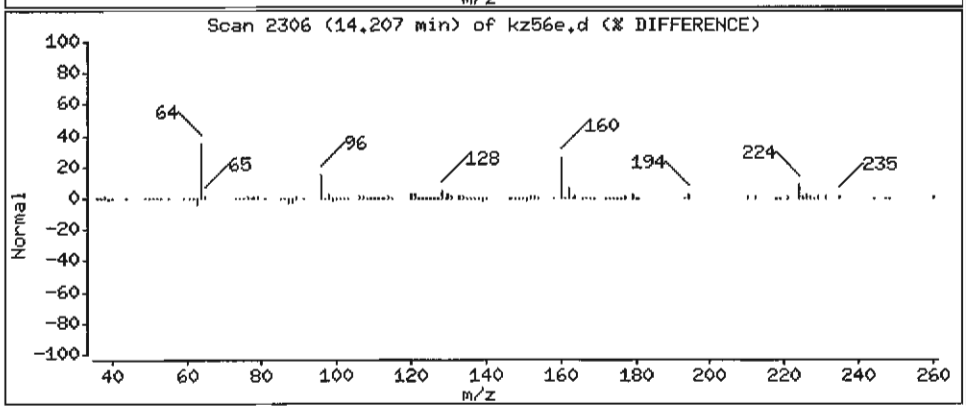
Concentration: 59.68 ug/kg

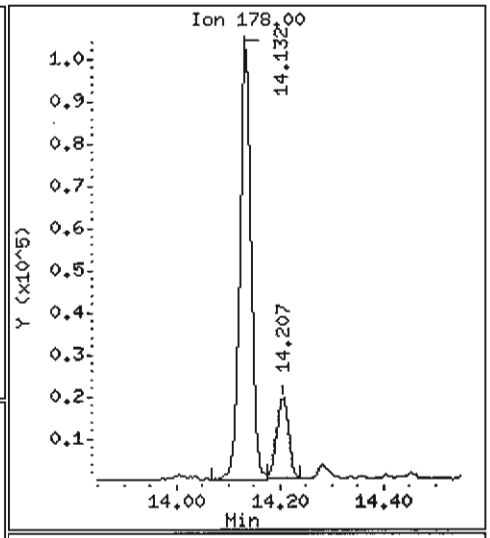
JCL

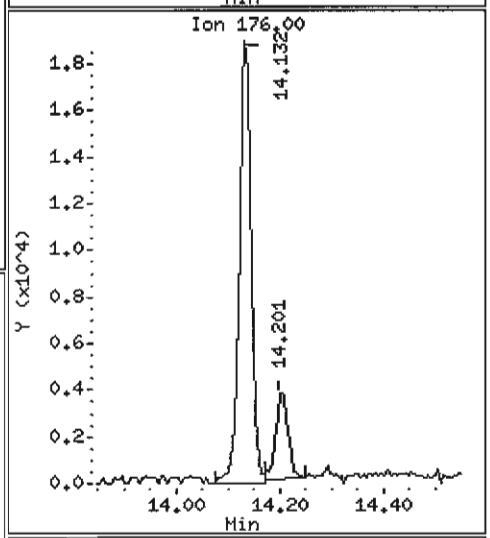


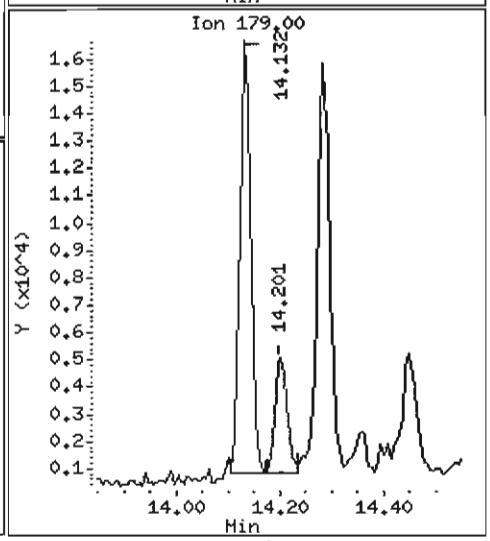












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

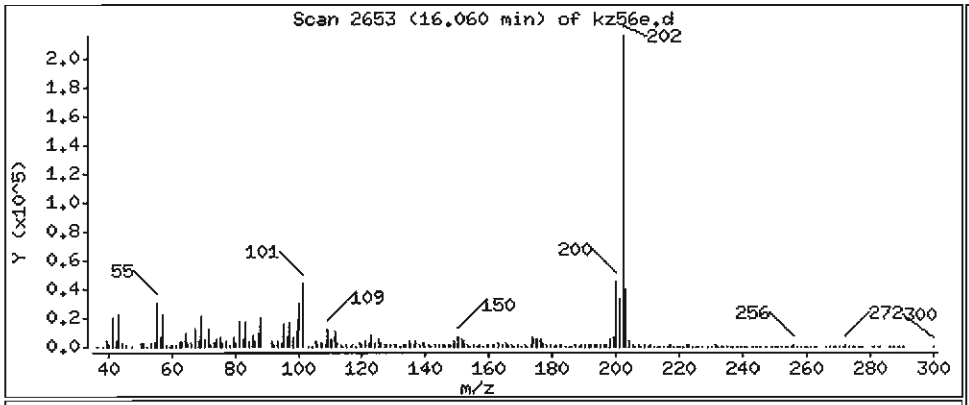
Operator: LJR/VTS

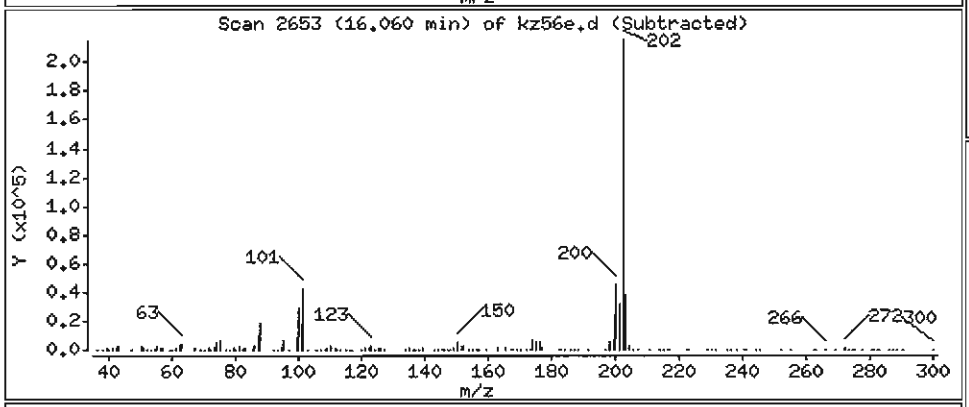
Column phase: ZB-5

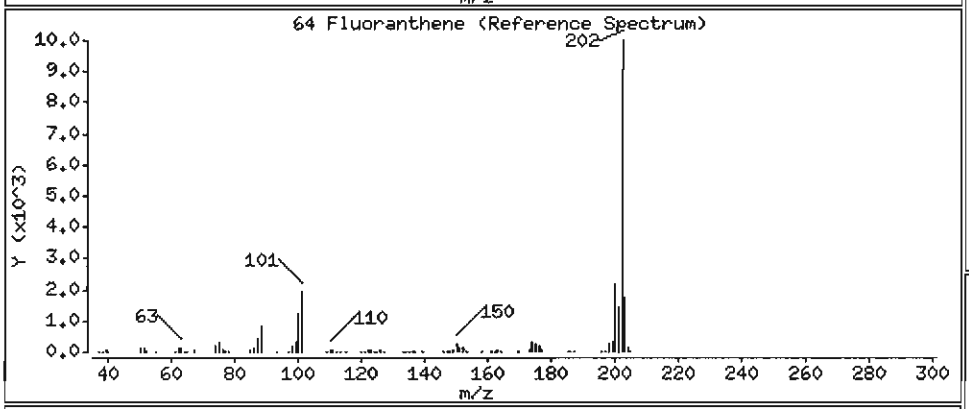
Column diameter: 0.32

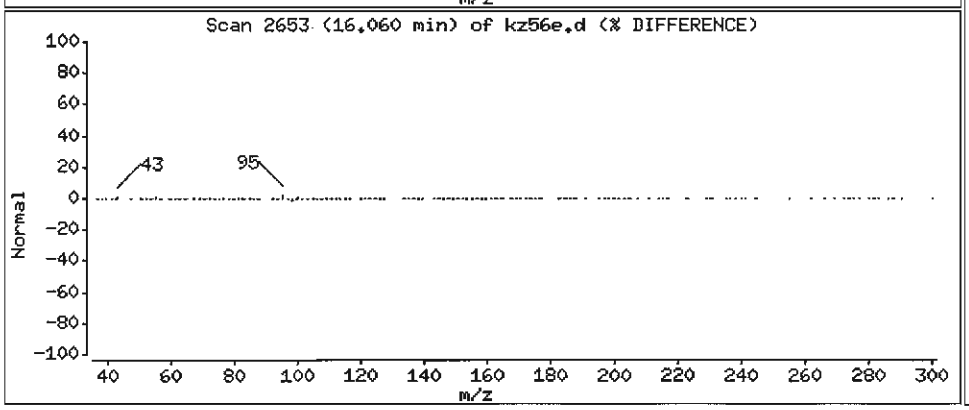
64 Fluoranthene

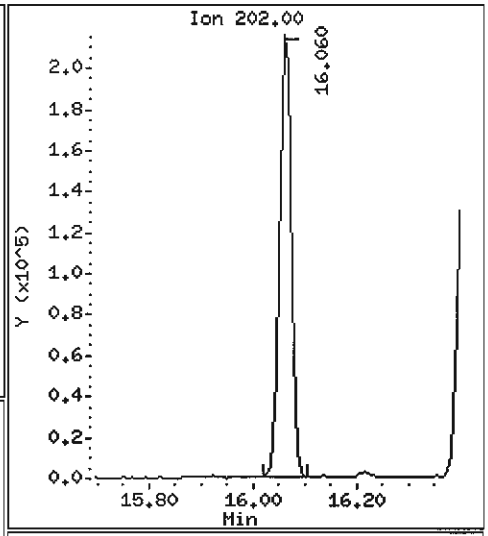
Concentration: 717.3 ug/kg

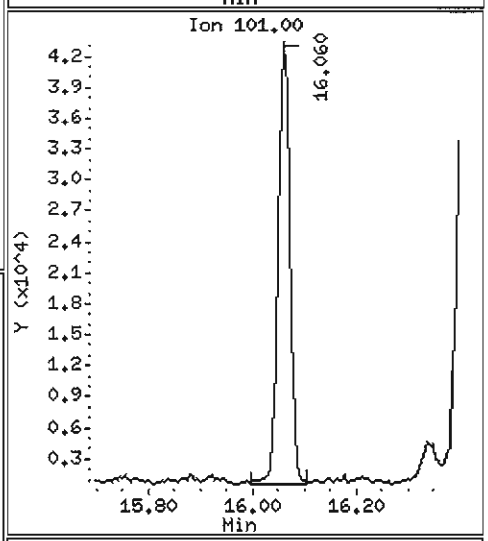


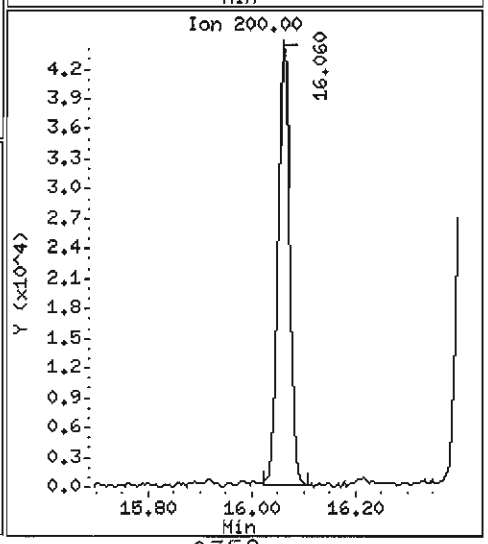












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

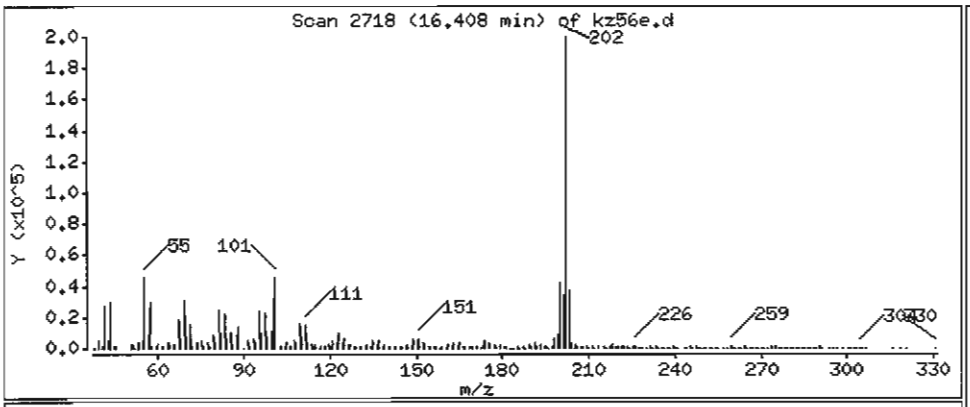
Operator: LJR/VTS

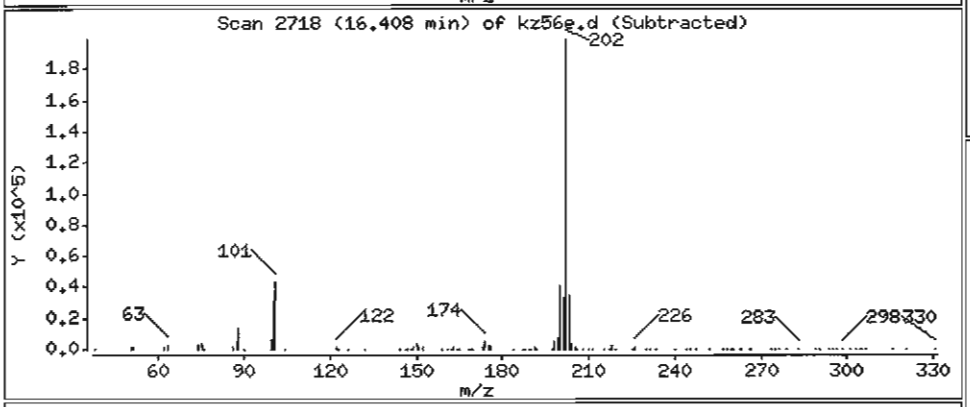
Column phase: ZB-5

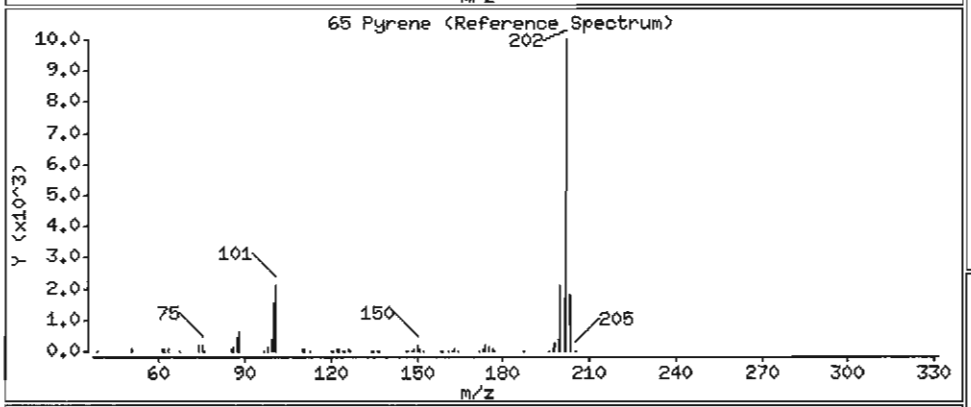
Column diameter: 0.32

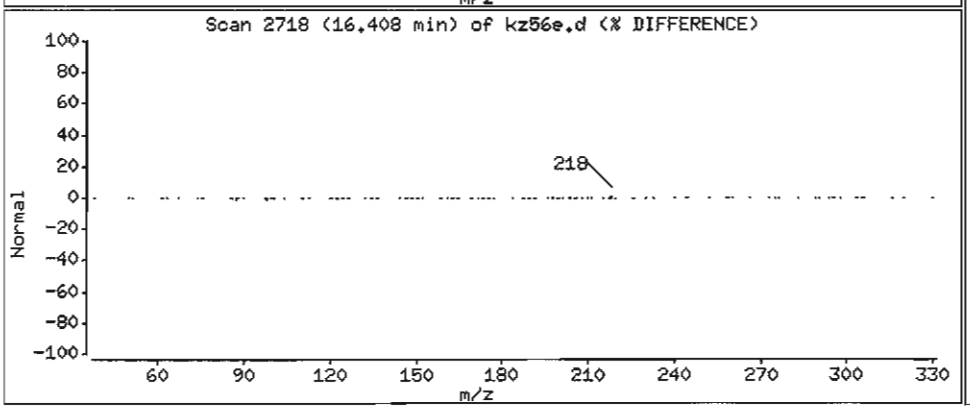
65 Pyrene

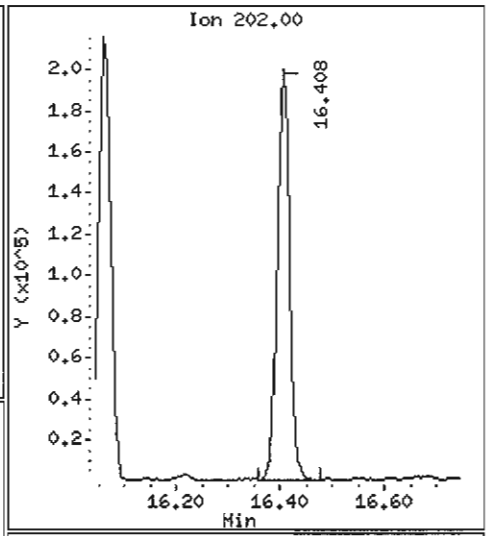
Concentration: 664.6 ug/kg

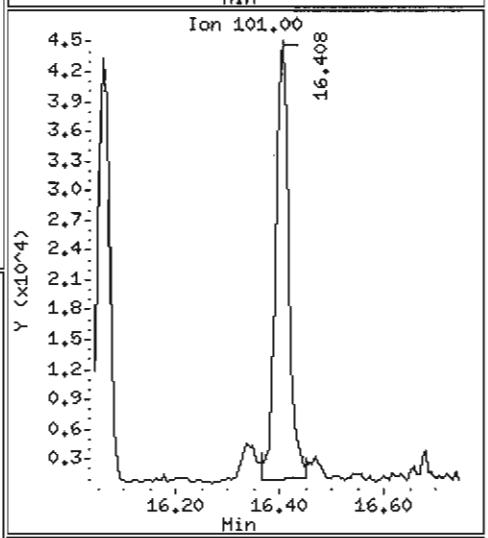


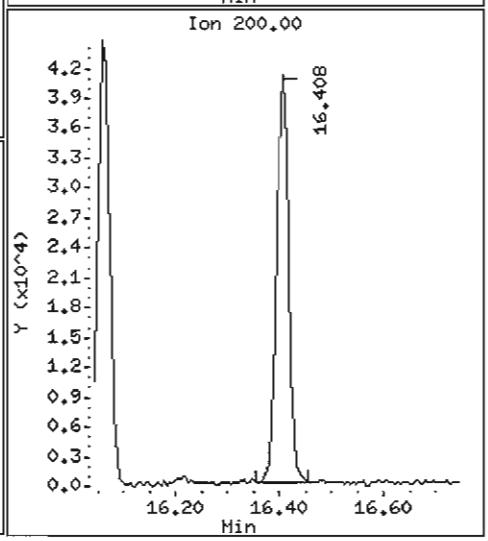












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

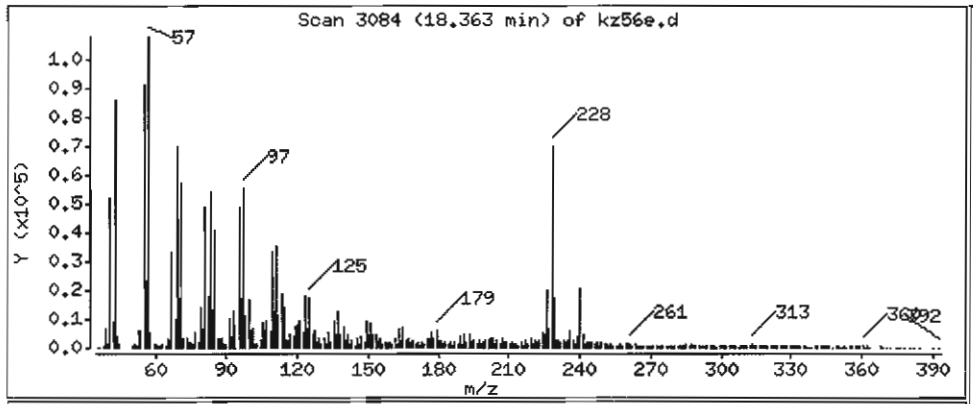
Operator: LJR/VTS

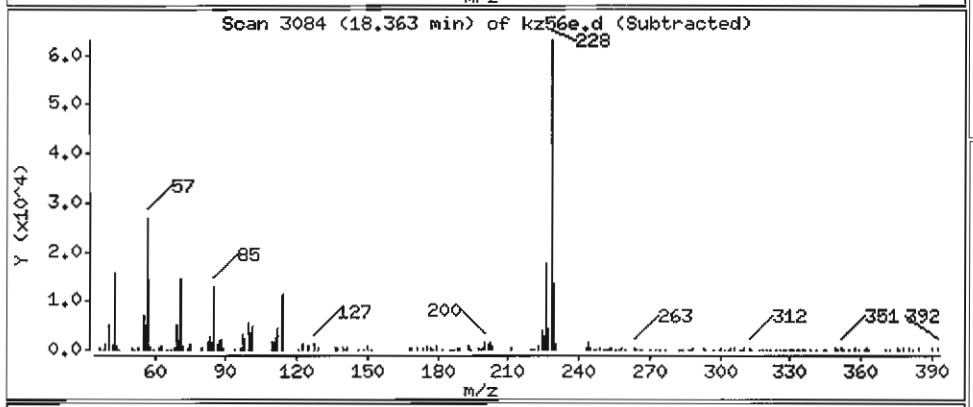
Column phase: ZB-5

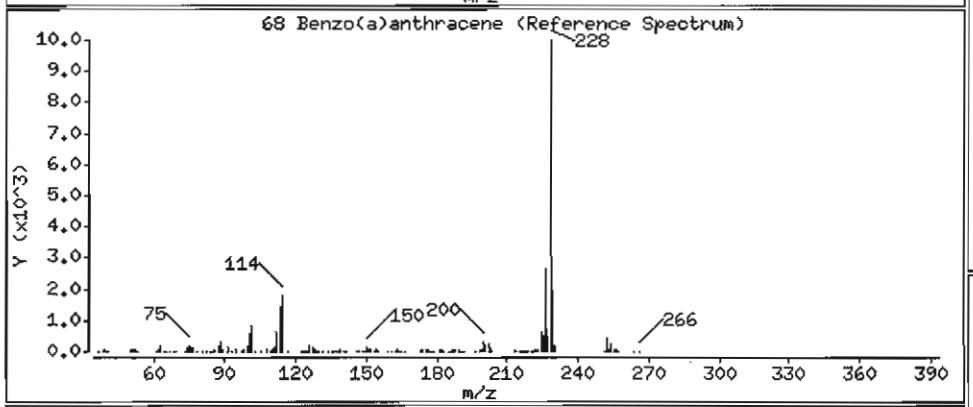
Column diameter: 0.32

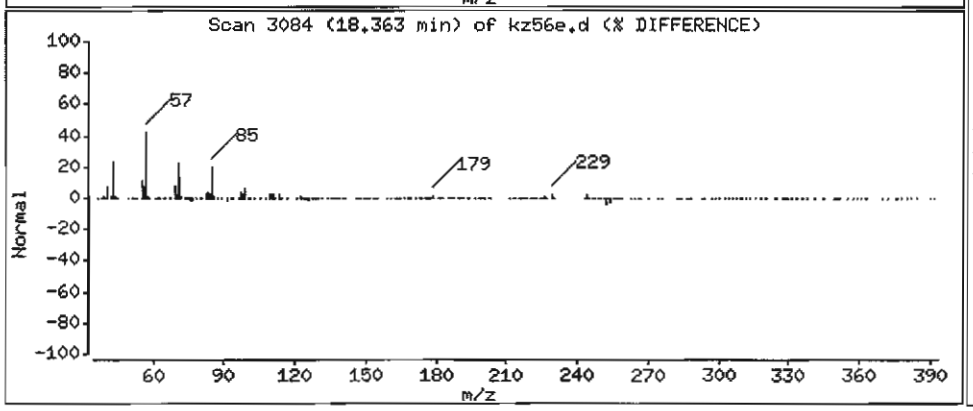
68 Benzo(a)anthracene

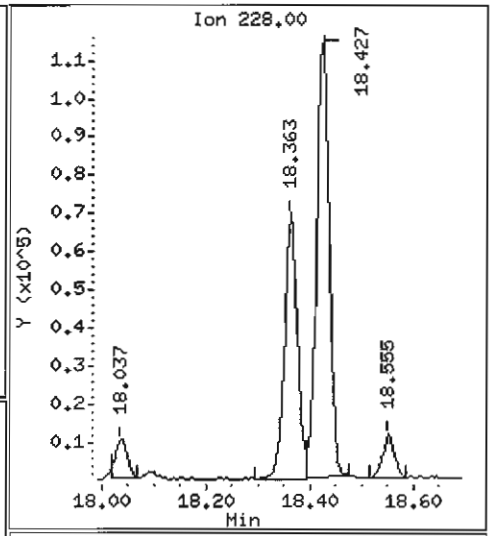
Concentration: 282.6 ug/kg

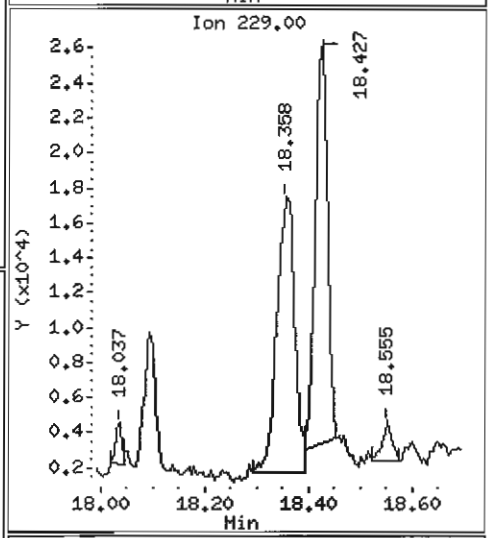


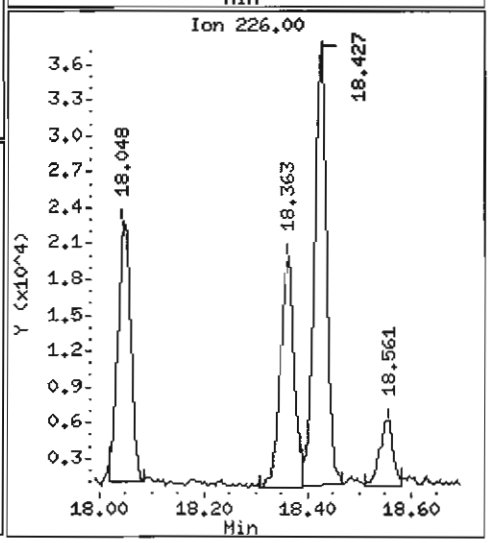












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

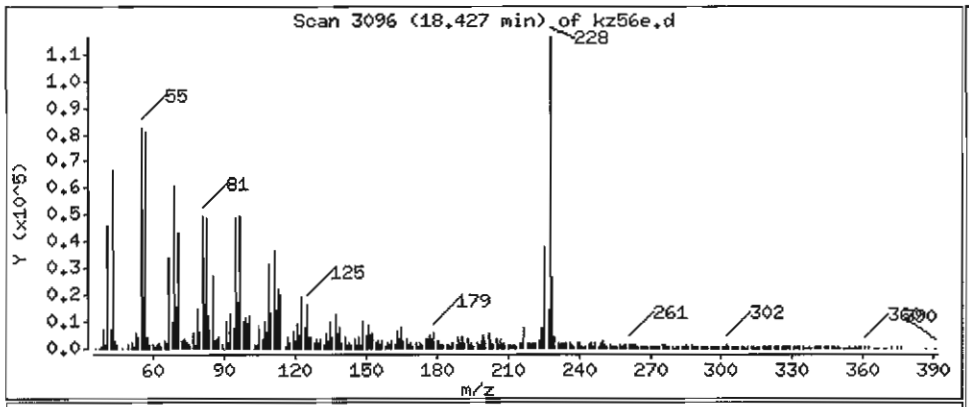
Operator: LJR/VTS

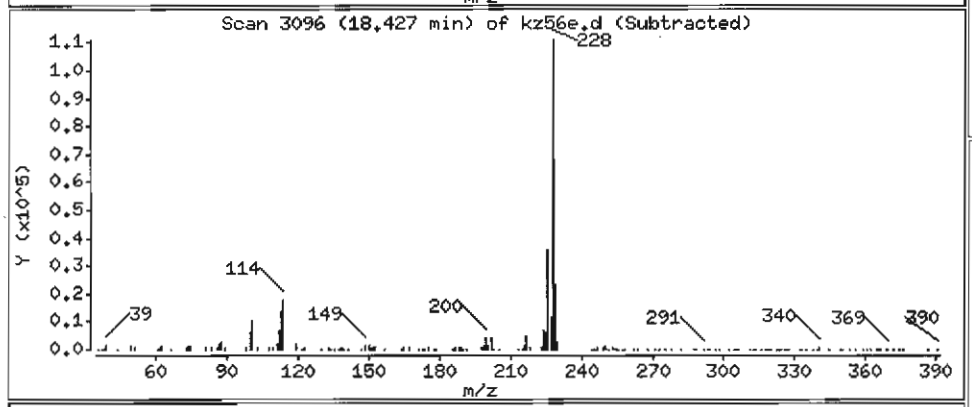
Column phase: ZB-5

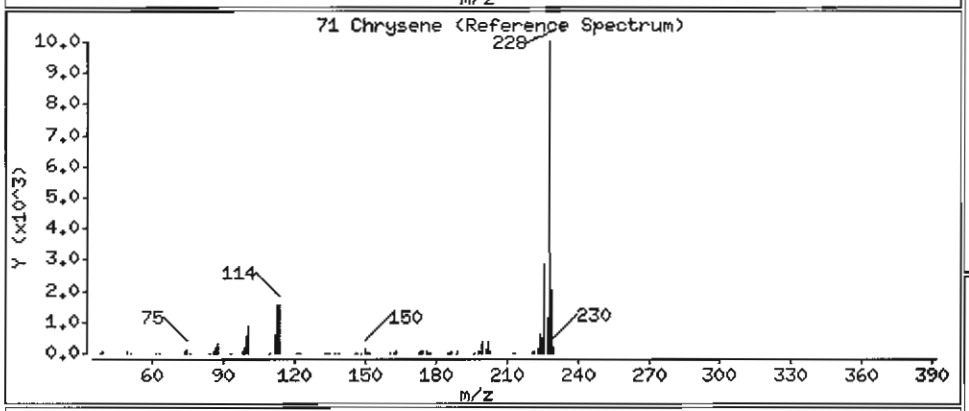
Column diameter: 0.32

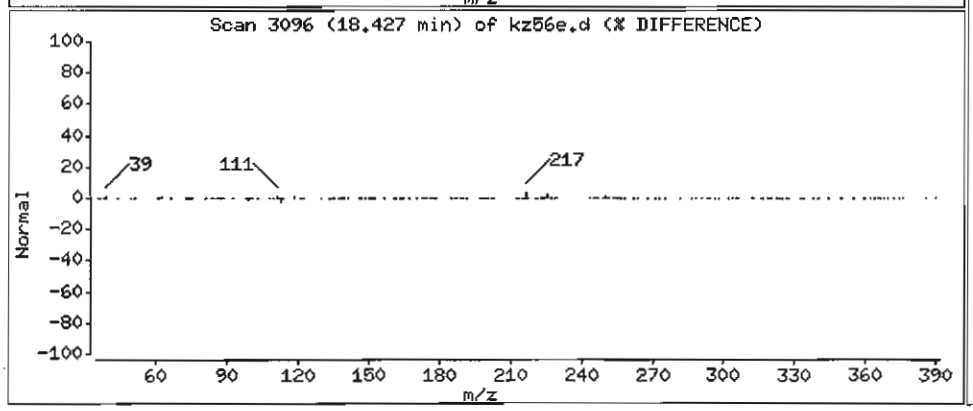
71 Chrysene

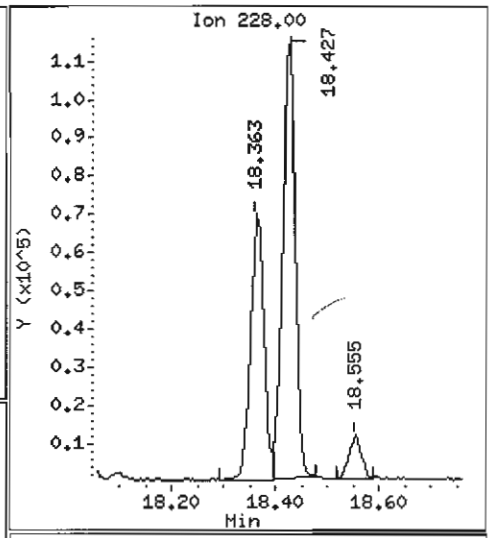
Concentration: 449.7 ug/kg

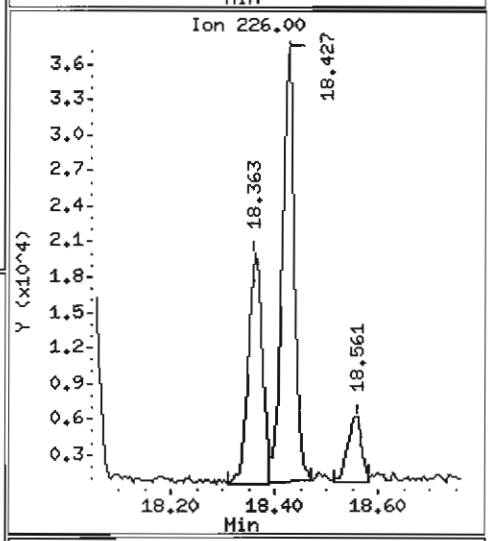


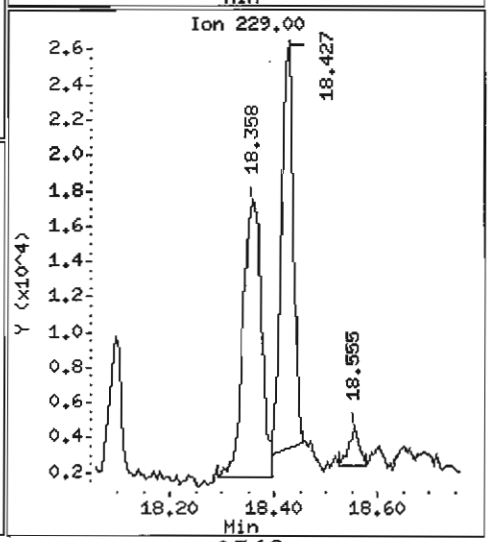












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

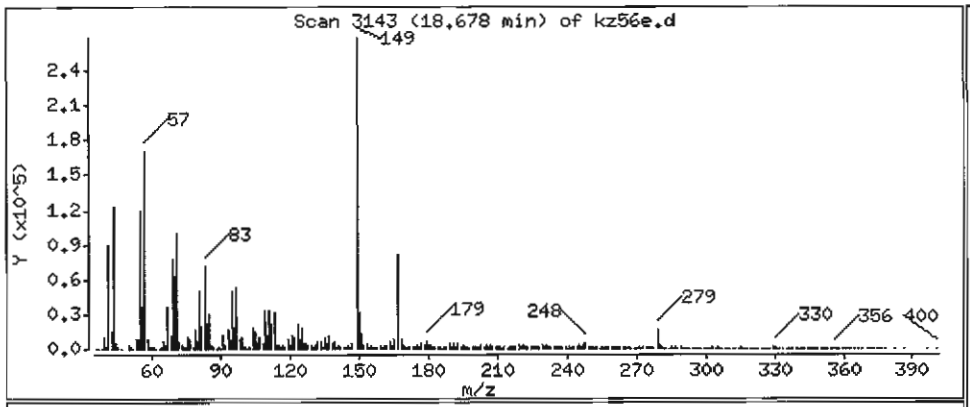
Operator: LJR/VTS

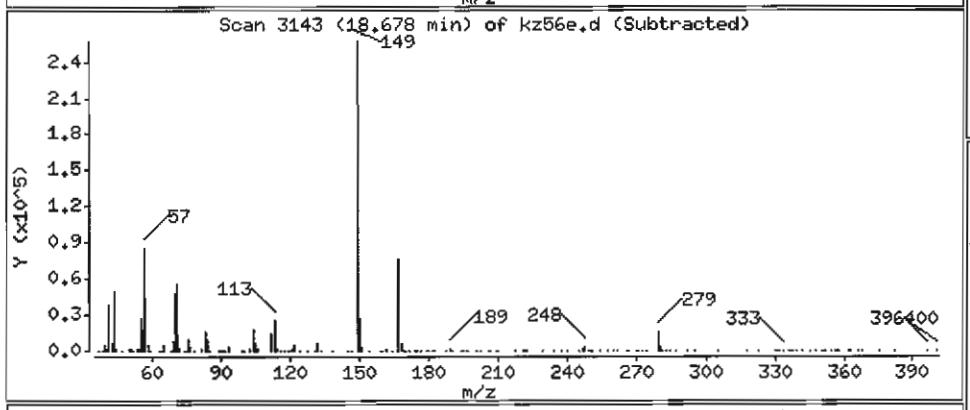
Column phase: ZB-5

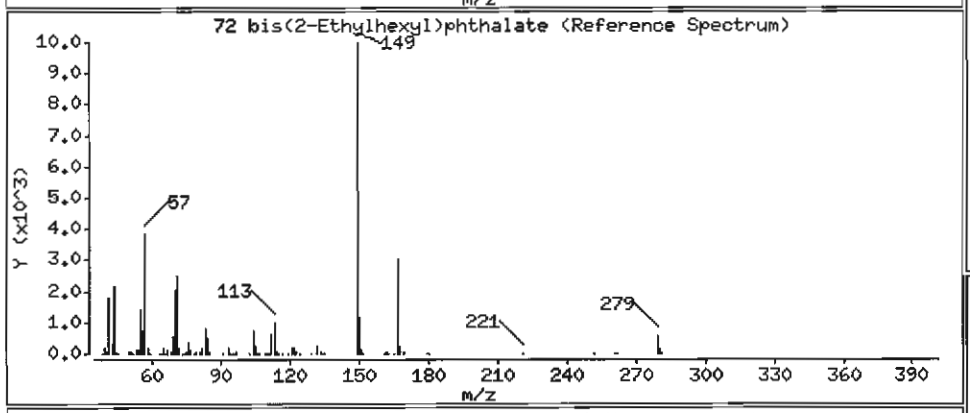
Column diameter: 0.32

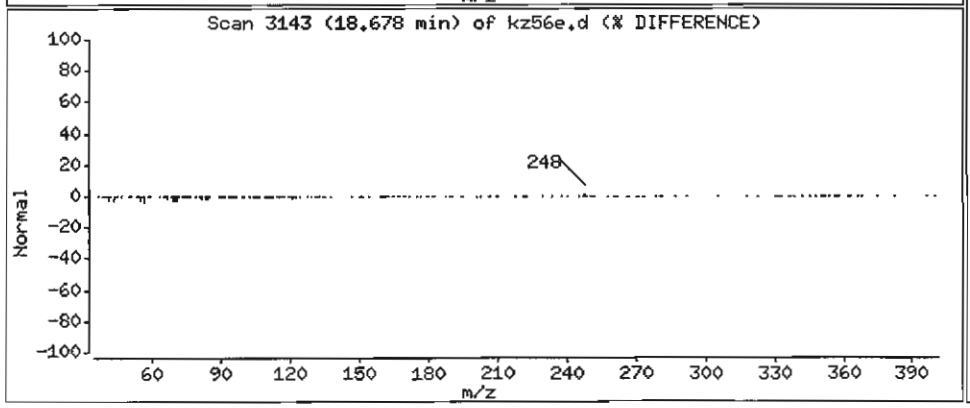
72 bis(2-Ethylhexyl)phthalate

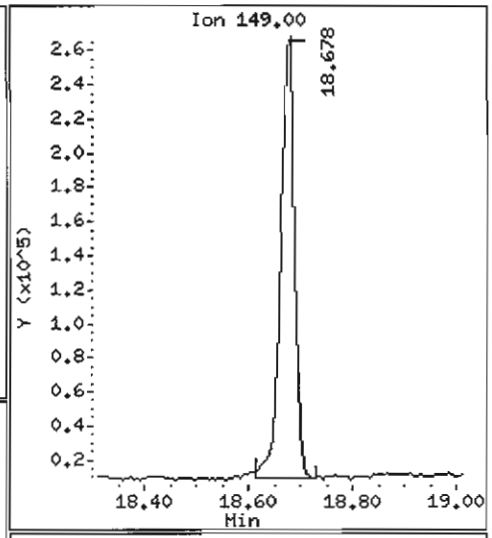
Concentration: 1599 ug/kg

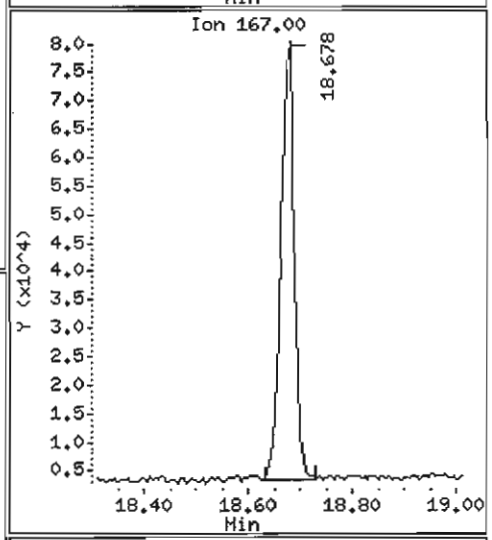


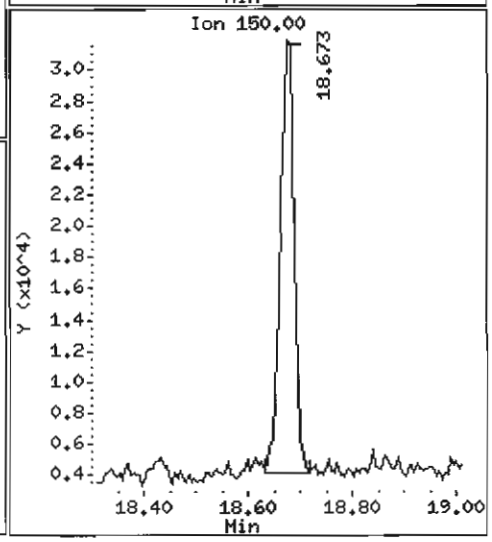












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

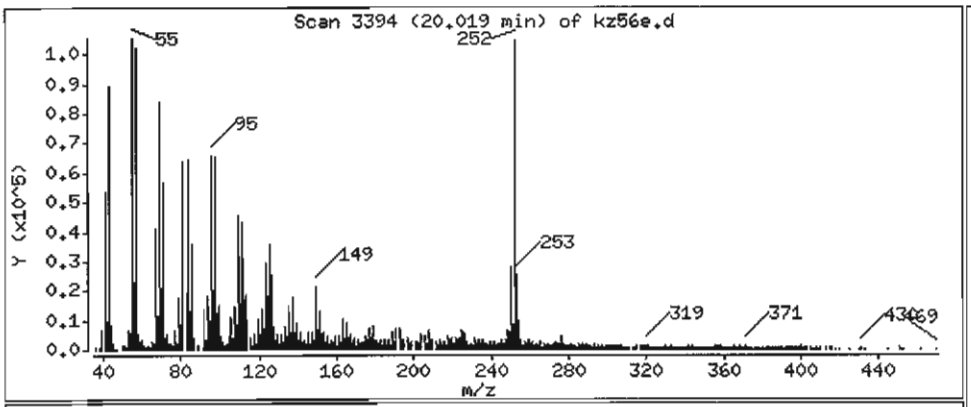
Operator: LJR/VTS

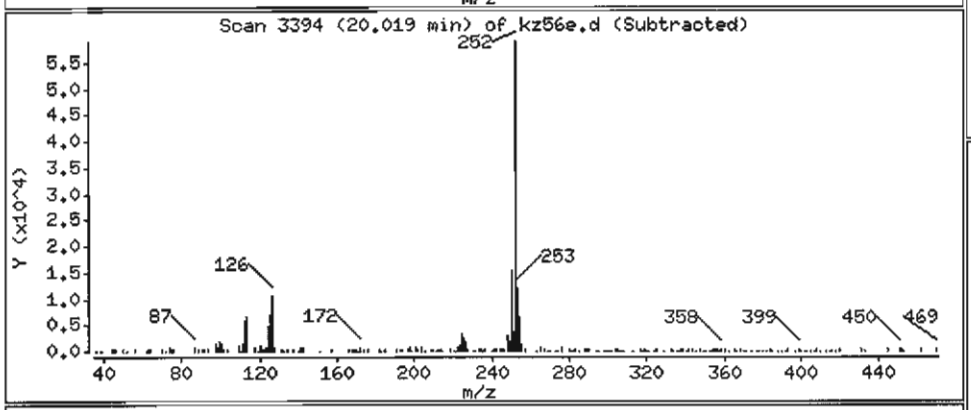
Column phase: ZB-5

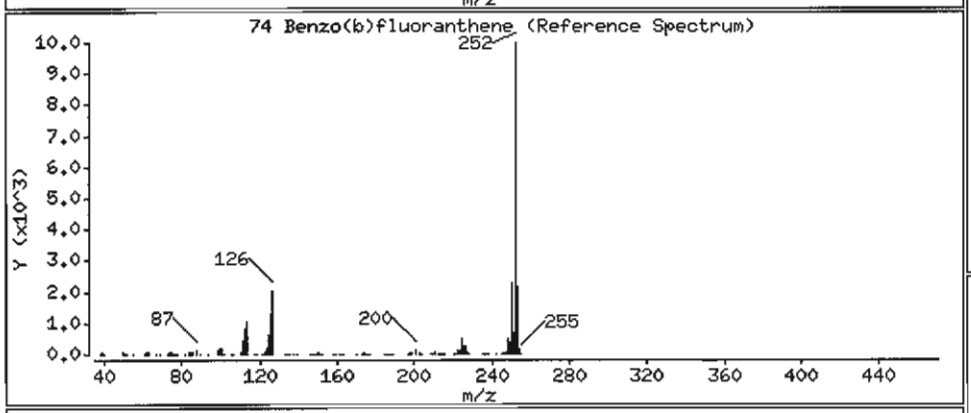
Column diameter: 0.32

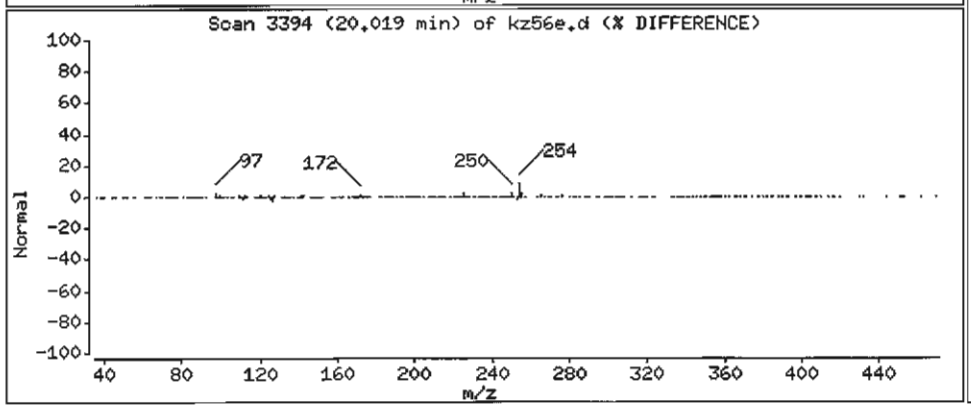
74 Benzo(b)fluoranthene

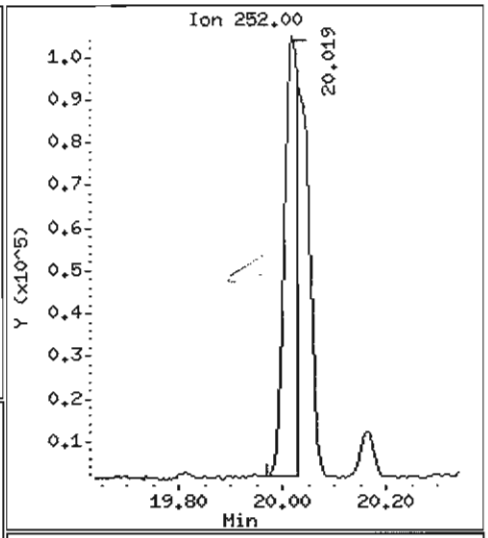
Concentration: 548.1 ug/kg

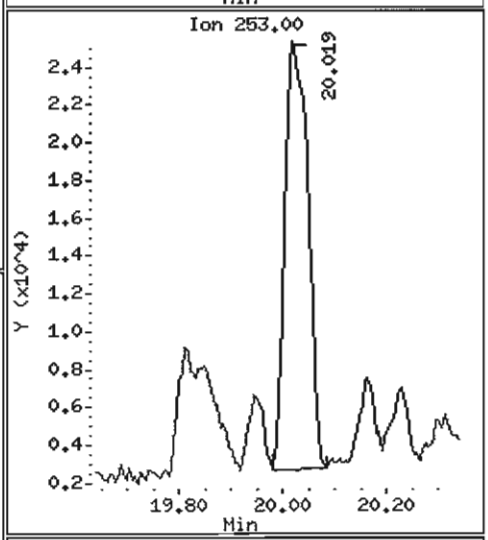


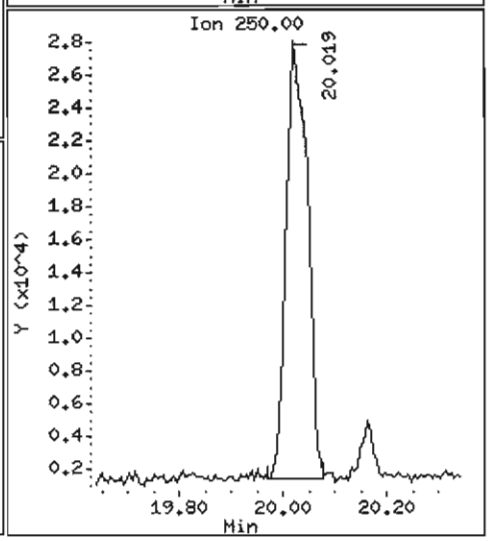












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

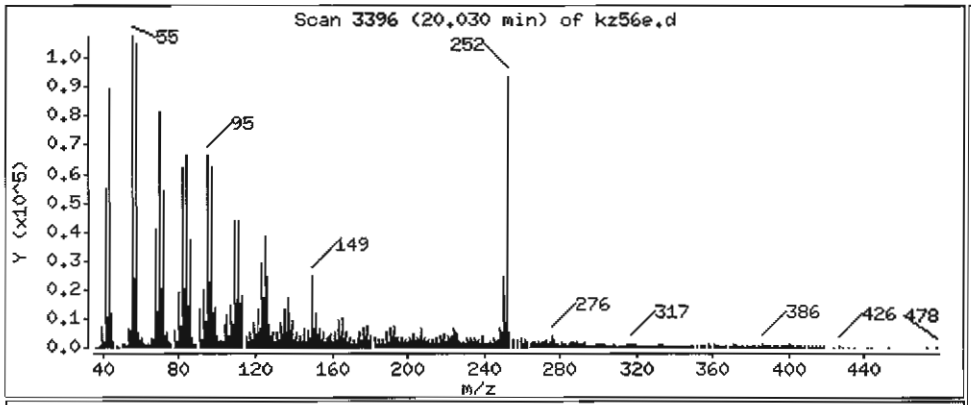
Operator: LJR/VTS

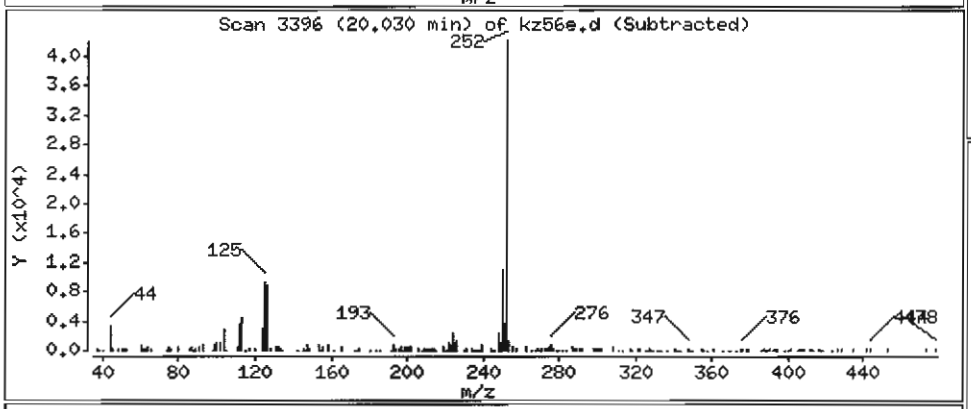
Column phase: ZB-5

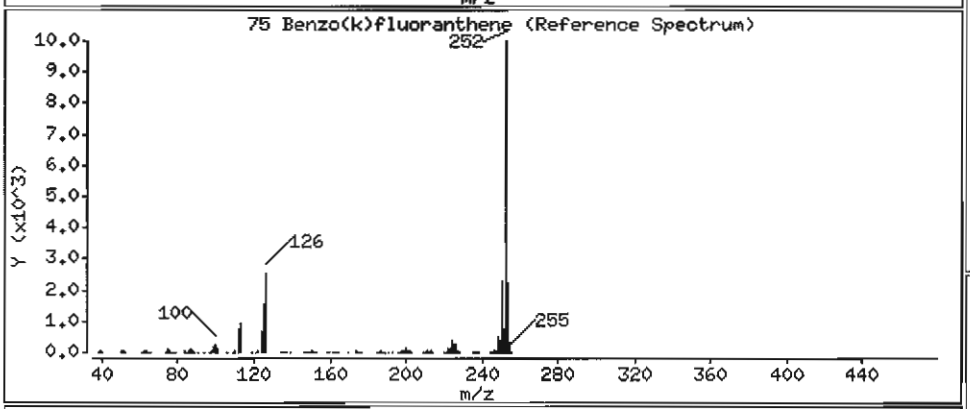
Column diameter: 0.32

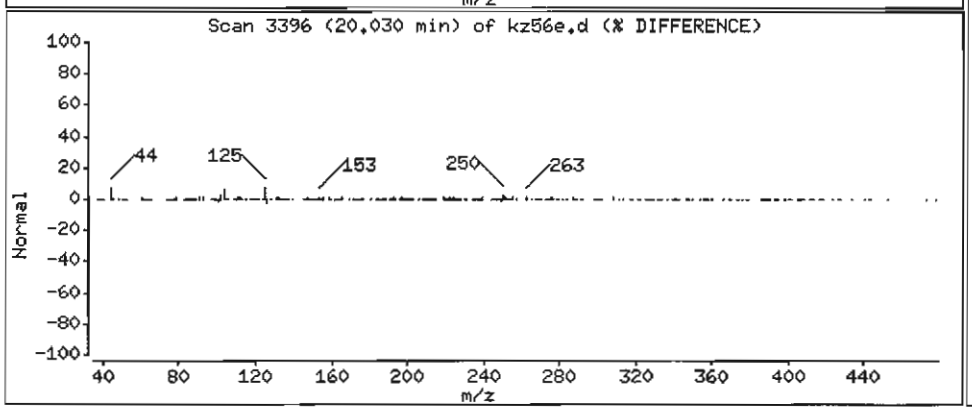
75 Benzo(k)fluoranthene

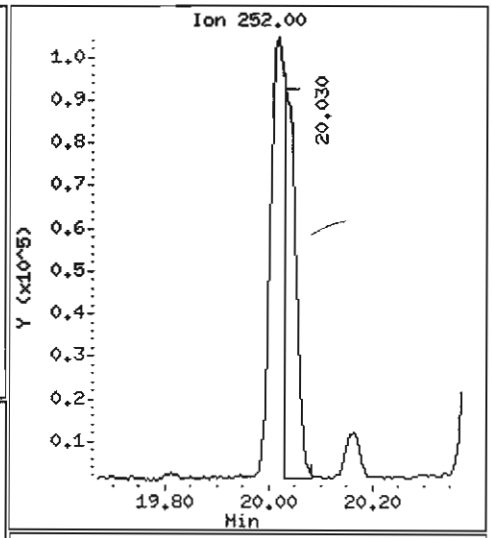
Concentration: 455.6 ug/kg

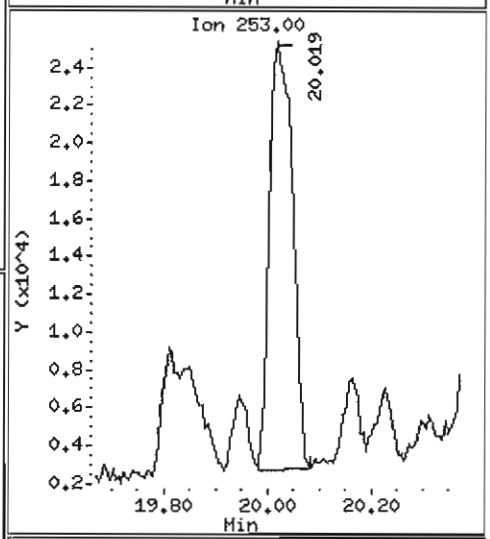


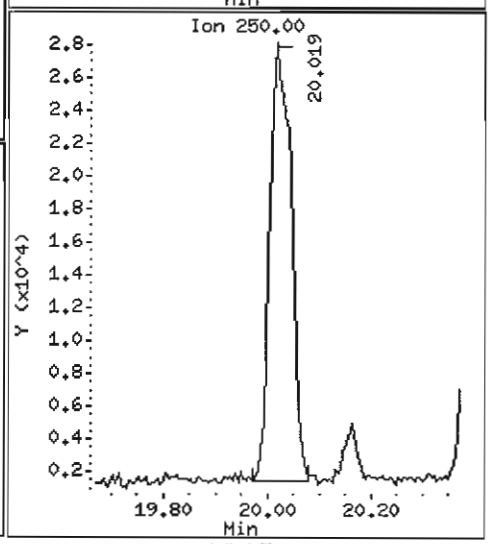












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

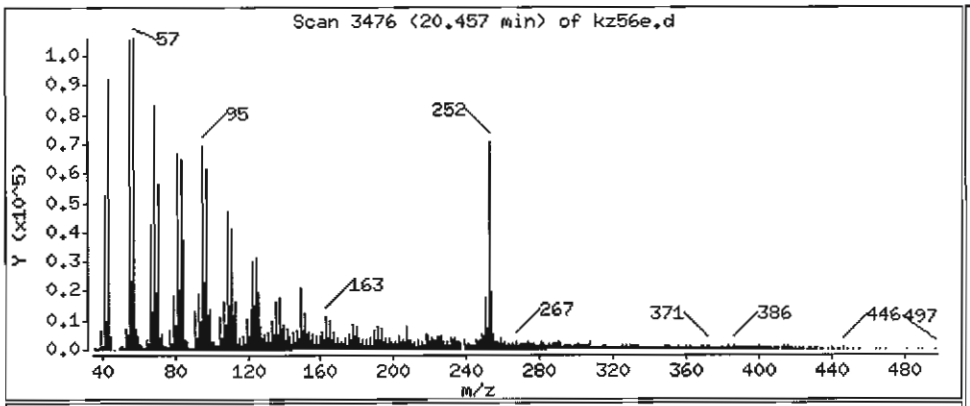
Operator: LJR/VTS

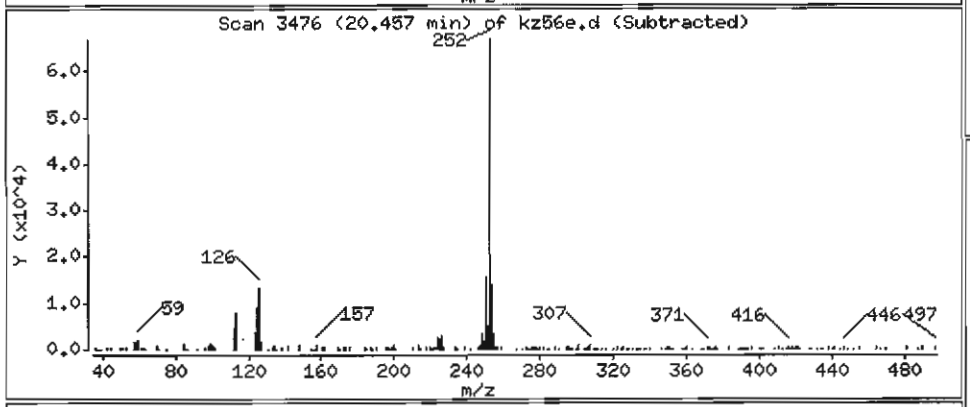
Column phase: ZB-5

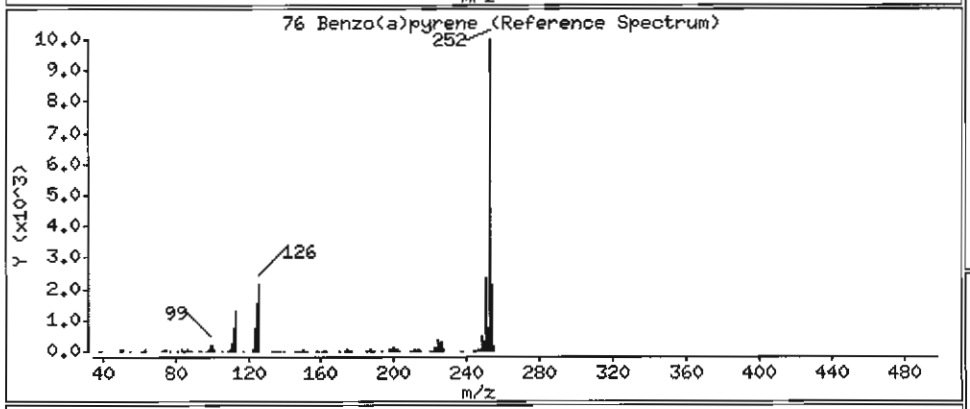
Column diameter: 0.32

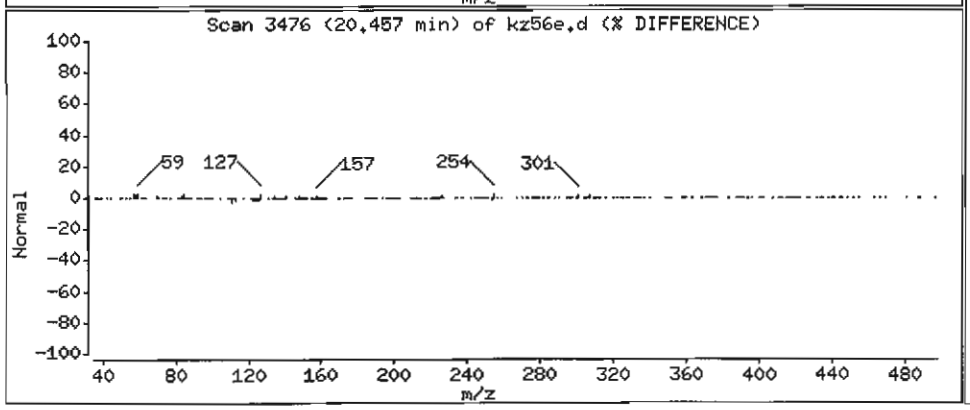
76 Benzo(a)pyrene

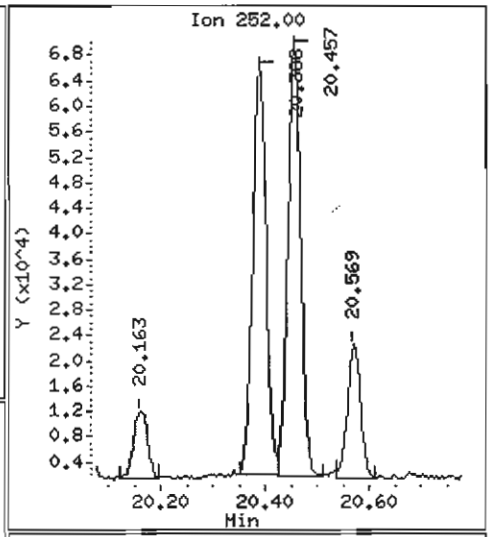
Concentration: 342.6 ug/kg

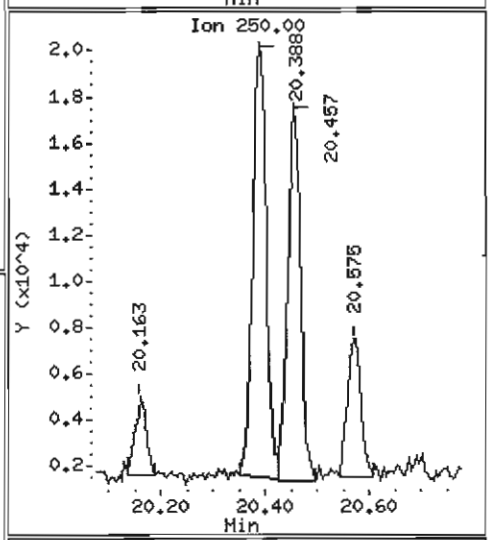


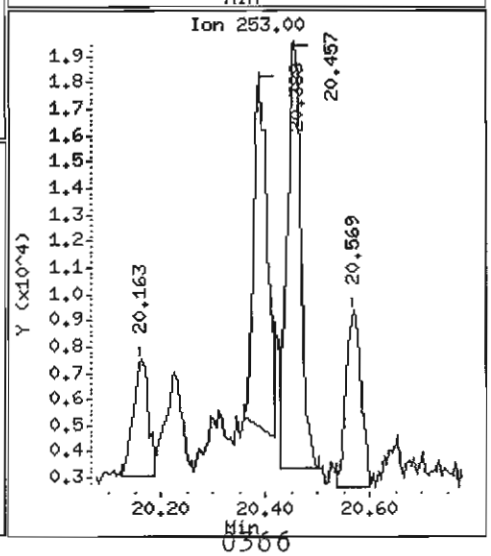












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

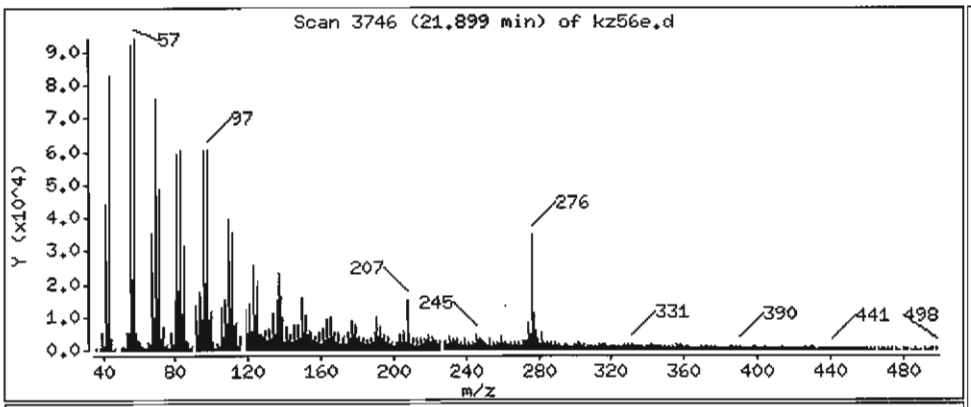
Operator: LJR/VTS

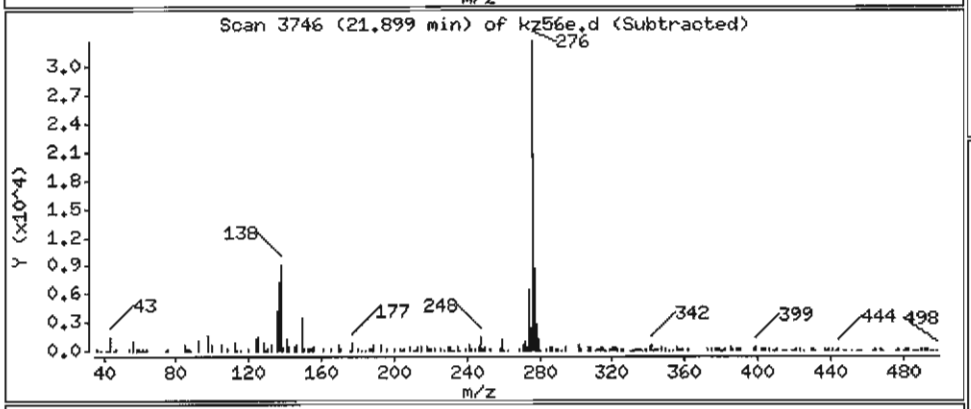
Column phase: ZB-5

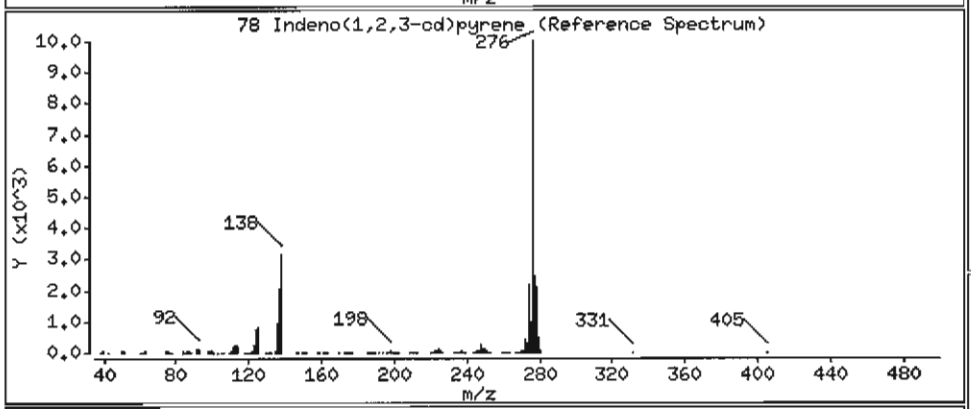
Column diameter: 0.32

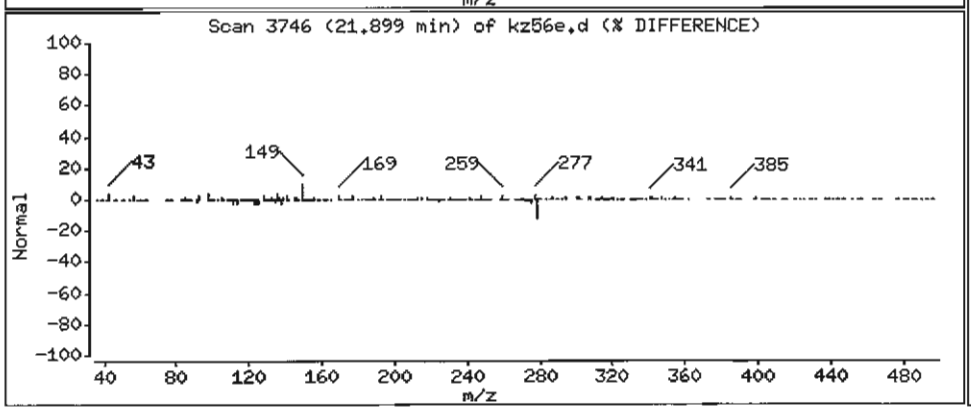
78 Indeno(1,2,3-cd)pyrene

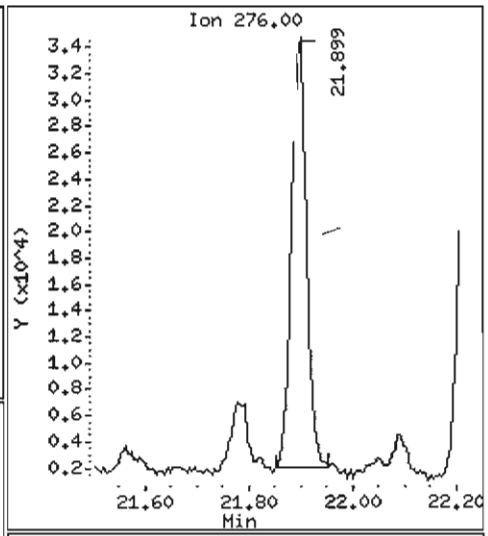
Concentration: 157.0 ug/kg

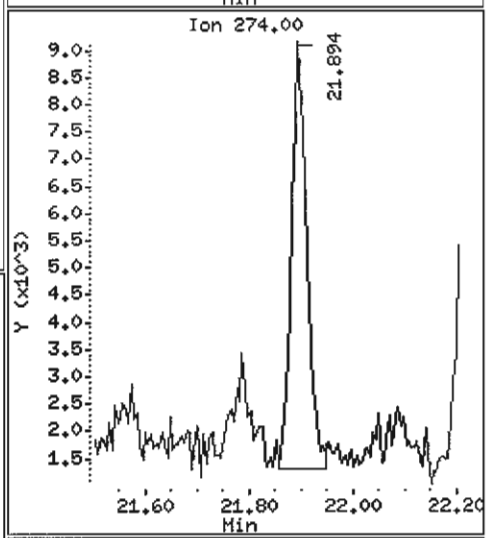


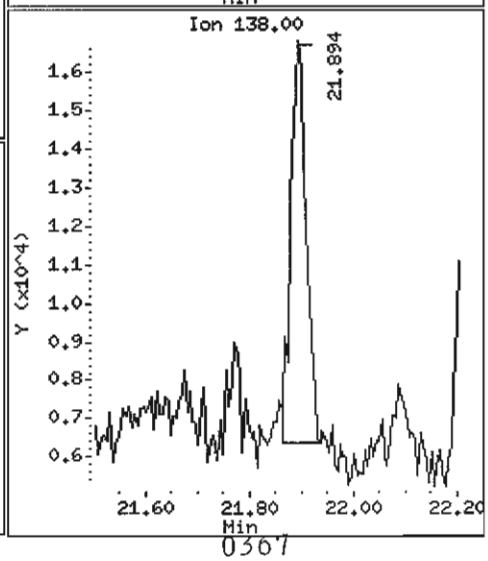












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

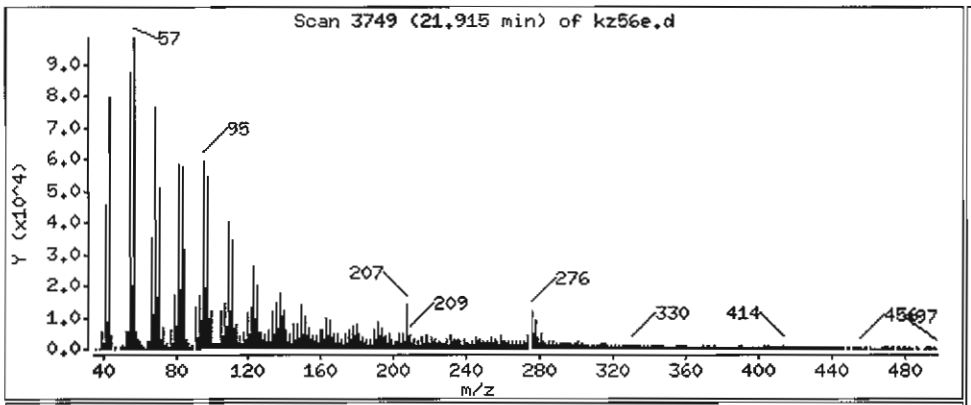
Operator: LJR/VTS

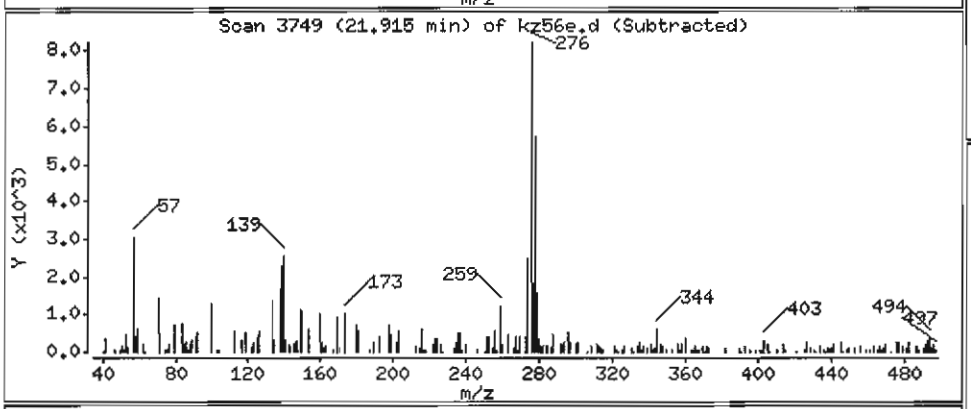
Column phase: ZB-5

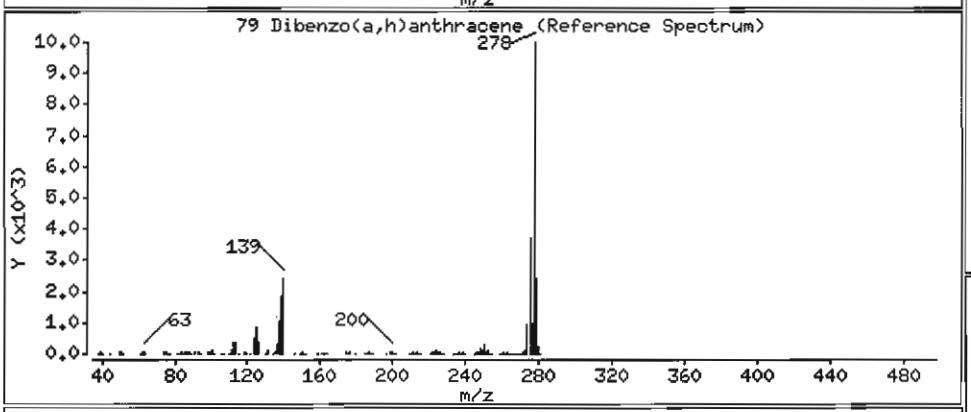
Column diameter: 0.32

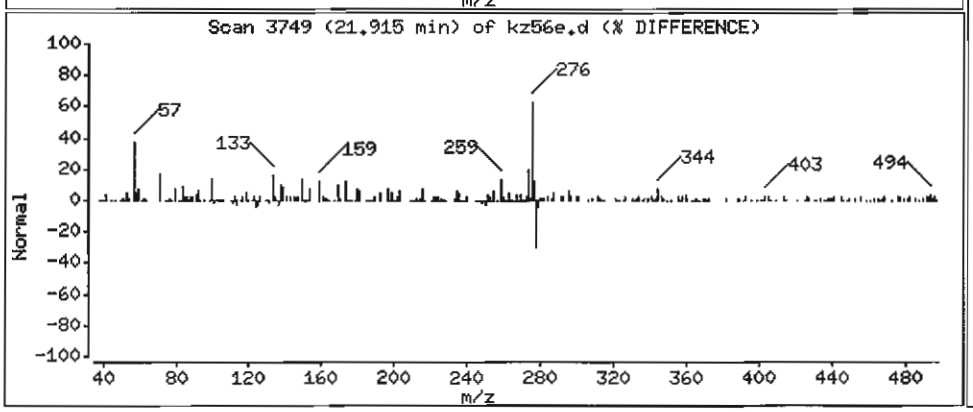
79 Dibenzo(a,h)anthracene

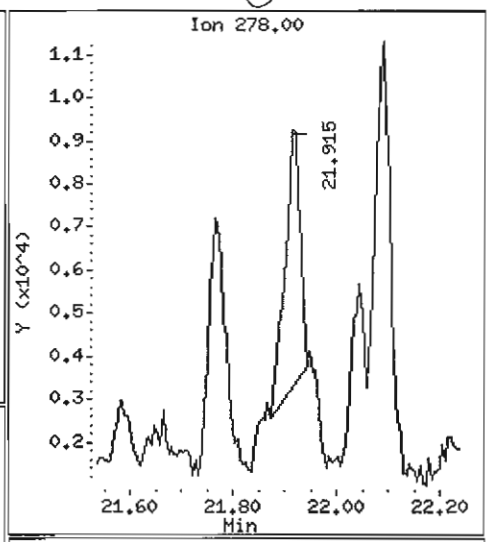
Concentration: 35.02 ug/kg

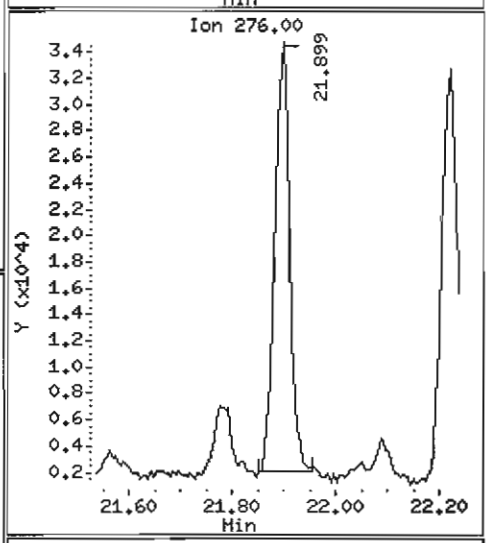


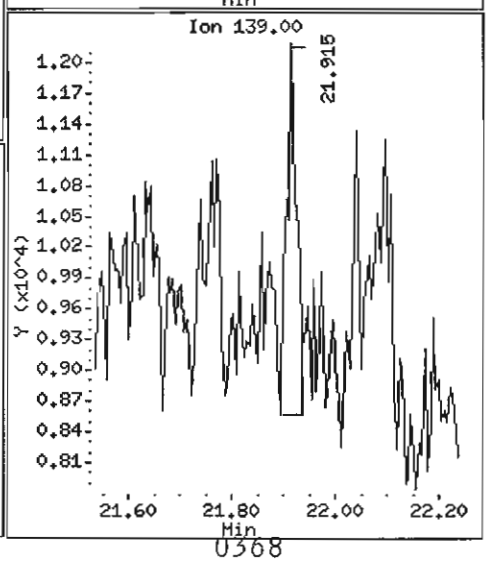












Data File: /chem1/nt6.i/20070526.b/kz56e.d

Date : 26-MAY-2007 20:59

Client ID: Y3-RC10-S

Instrument: nt6.i

Sample Info: KZ56E,3

Volume Injected (uL): 1.0

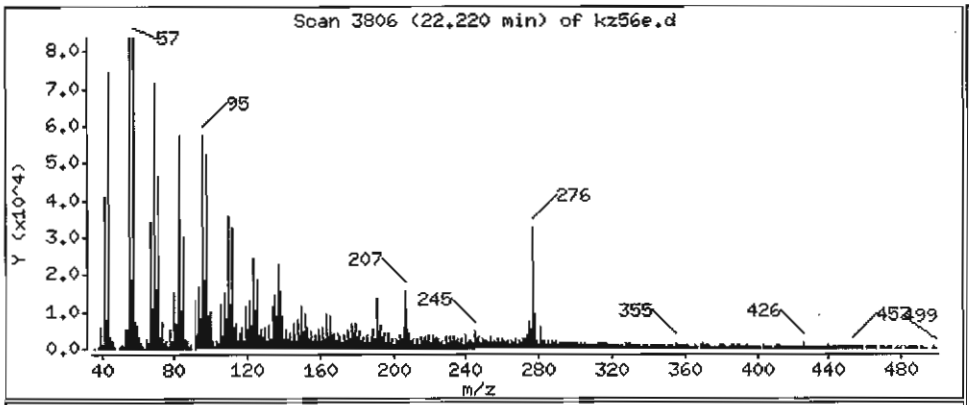
Operator: LJR/VTS

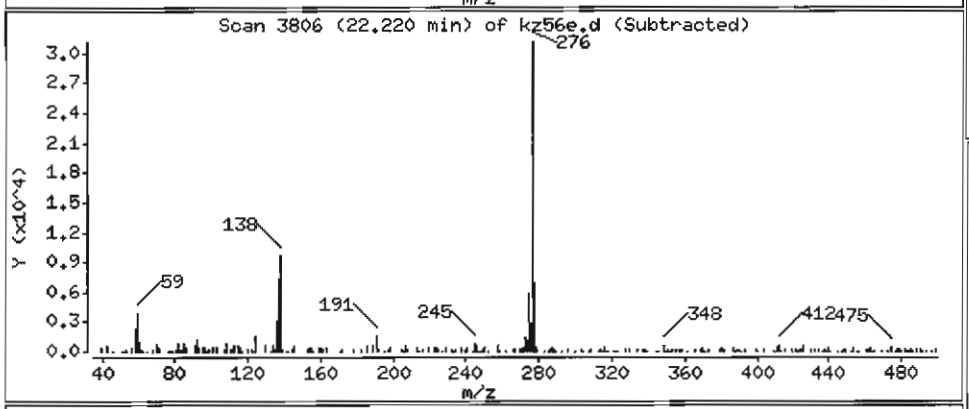
Column phase: ZB-5

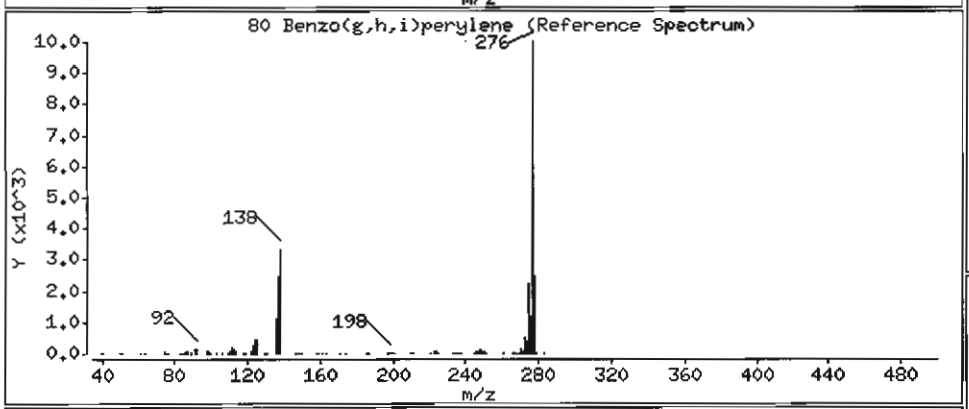
Column diameter: 0.32

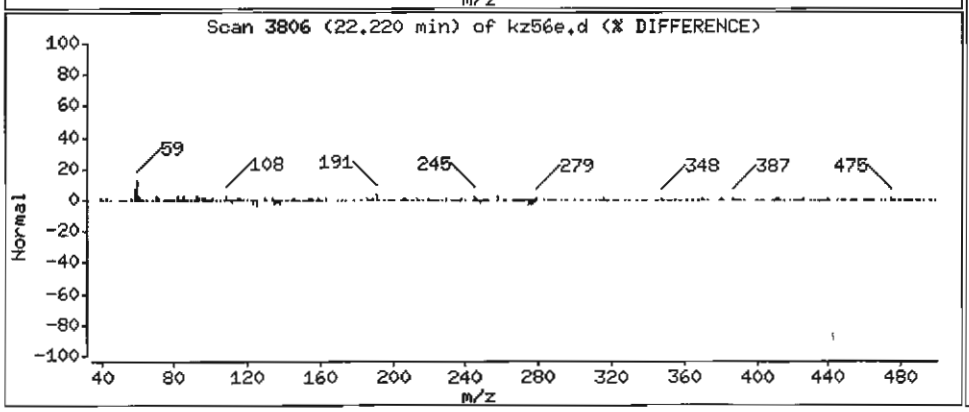
80 Benzo(g,h,i)perylene

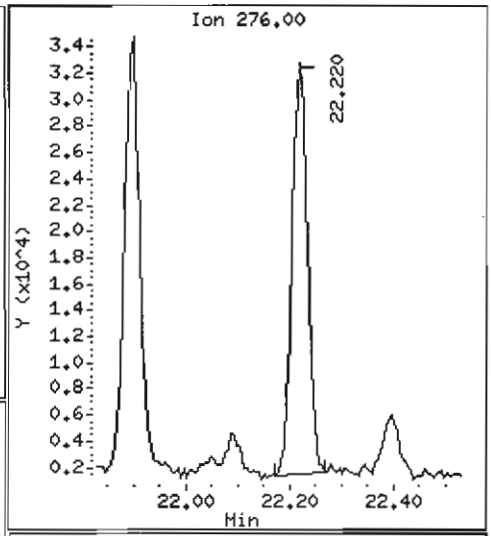
Concentration: 170.4 ug/kg

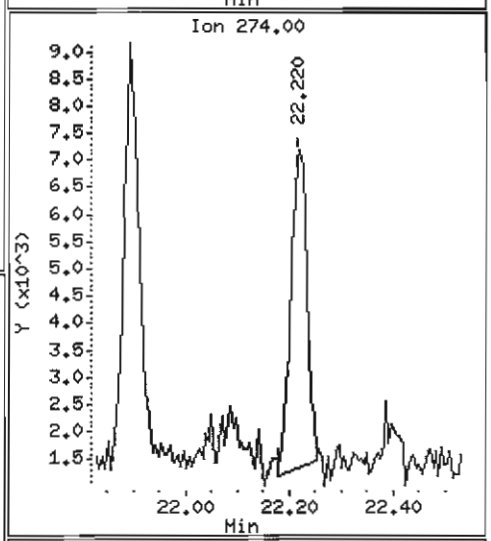


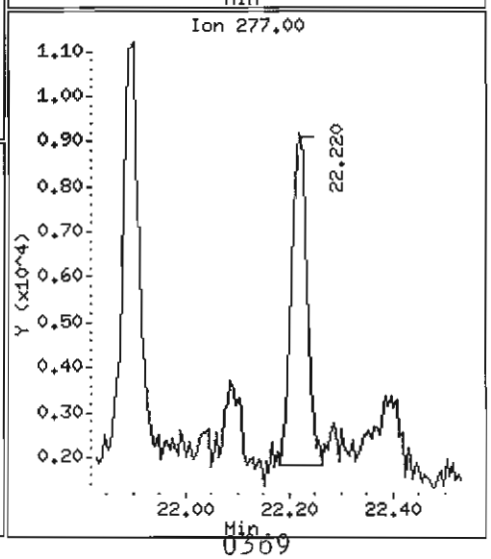












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC05-S
SAMPLE

Lab Sample ID: KZ56F
LIMS ID: 07-9552
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 10:59
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 33.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 53.0%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	150	110 J
91-57-6	2-Methylnaphthalene	150	< 150 U
208-96-8	Acenaphthylene	150	< 150 U
83-32-9	Acenaphthene	150	< 150 U
132-64-9	Dibenzofuran	150	< 150 U
86-73-7	Fluorene	150	< 150 U
85-01-8	Phenanthrene	150	680
120-12-7	Anthracene	150	140 J
206-44-0	Fluoranthene	150	1,800
129-00-0	Pyrene	150	1,500
56-55-3	Benzo(a)anthracene	150	640
117-81-7	bis(2-Ethylhexyl)phthalate	150	4,000
218-01-9	Chrysene	150	960
205-99-2	Benzo(b)fluoranthene	150	1,100
207-08-9	Benzo(k)fluoranthene	150	870
50-32-8	Benzo(a)pyrene	150	740
193-39-5	Indeno(1,2,3-cd)pyrene	150	400
53-70-3	Dibenz(a,h)anthracene	150	83 J
191-24-2	Benzo(g,h,i)perylene	150	390

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.8%	2-Fluorobiphenyl	46.8%
d14-p-Terphenyl	45.6%	d4-1,2-Dichlorobenzene	40.4%
d5-Phenol	44.1%	2-Fluorophenol	38.7%
2,4,6-Tribromophenol	47.9%	d4-2-Chlorophenol	42.3%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56fdl.d
Lab Smp Id: KZ56F — Client Smp ID: Y3-RC05-S
Inj Date : 29-MAY-2007 10:59
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56F,5
Misc Info : 07-9552
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 4
Dil Factor: 5.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	72.00000	Weight of sample extracted (g)
M	53.00000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.914	4.903	(0.722)	59850	2.89888	428.3
$ 2 Phenol-d5	99	6.452	6.447	(0.948)	80097	3.30644	488.5
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.522	6.521	(0.958)	53086	3.16931	468.3
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.805	6.805	(1.000)	227086	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.099	7.093	(1.043)	20705	2.02146	298.7
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					
$ 18 Nitrobenzene-d5	82	7.724	7.729	(0.876)	44507	2.33835	345.5
19 Nitrobenzene	77	Compound Not Detected.					
20 Isophorone	82	Compound Not Detected.					
21 2-Nitrophenol	139	Compound Not Detected.					
22 2,4-Dimethylphenol	107	Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24 Benzoic acid	105	Compound Not Detected.					
25 2,4-Dichlorophenol	162	Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27 Naphthalene-d8	136	8.819	8.819	(1.000)	799898	20.0000	
28 Naphthalene	128	8.846	8.851	(1.003)	36242	0.76493 LDL	113.0
29 4-Chloroaniline	127	Compound Not Detected.					
30 Hexachlorobutadiene	225	Compound Not Detected.					
31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.619	10.619	(0.911)	63785	2.33948	345.7
37 2-Chloronaphthalene	162	Compound Not Detected.					
38 2-Nitroaniline	65	Compound Not Detected.					
39 Dimethylphthalate	163	Compound Not Detected.					
40 Acenaphthylene	152	Compound Not Detected.					
41 2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.656	11.655	(1.000)	403977	20.0000	
43 3-Nitroaniline	138	Compound Not Detected.					
44 Acenaphthene	153	Compound Not Detected.					
45 2,4-Dinitrophenol	184	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
47 4-Nitrophenol	109	Compound Not Detected.					
48 2,4-Dinitrotoluene	165	Compound Not Detected.					
50 Diethylphthalate	149	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
52 4-Nitroaniline	138	Compound Not Detected.					
53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55 2,4,6-Tribromophenol	330	12.938	12.937	(1.110)	14759	3.58854	530.2
56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
57 Hexachlorobenzene	284	Compound Not Detected.					
58 Pentachlorophenol	266	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.001	14.001	(1.000)	572997	20.0000	
60 Phenanthrene	178	14.038	14.038	(1.003)	175067	4.57813	676.4
61 Anthracene	178	14.108	14.107	(1.008)	38083	0.96384 LDL	142.4
62 Carbazole	167	14.412	14.412	(1.029)	36085	1.06133	156.8(M)
63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.967	15.956	(1.140)	446036	12.2939	1816
65 Pyrene	202	16.309	16.303	(0.891)	445345	10.3140	1524
$ 66 Terphenyl-d14	244	16.656	16.650	(0.910)	62369	2.28096	337.0
67 Butylbenzylphthalate	149	17.564	17.558	(0.960)	33645	1.65725	244.9(M)
68 Benzo(a)anthracene	228	18.269	18.253	(0.999)	167252	4.30263	635.7
* 69 Chrysene-d12	240	18.296	18.280	(1.000)	520383	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.328	18.322	(1.002)	256365	6.51950	963.3
72 bis(2-Ethylhexyl)phthalate	149	18.590	18.573	(0.952)	760783	27.4263	4052
* 134 Di-n-octylphthalate-d4	153	19.525	19.503	(1.000)	809872	20.0000	
73 Di-n-octylphthalate	149	19.541	19.514	(1.001)	43181	0.89751 LDL	132.6(M)
74 Benzo(b)fluoranthene	252	19.925	19.898	(0.974)	266461	7.26491	1073(M)
75 Benzo(k)fluoranthene	252	19.936	19.930	(0.975)	207846	5.89896	871.6(M)
76 Benzo(a)pyrene	252	20.363	20.336	(0.996)	182677	4.97598	735.2
* 77 Perylene-d12	264	20.449	20.416	(1.000)	565687	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.795	21.768	(1.066)	118901	2.73946	404.8(M)
79 Dibenzo(a,h)anthracene	278	21.816	21.789	(1.067)	20014	0.55675 LDL	82.26(M)
80 Benzo(g,h,i)perylene	276	22.110	22.078	(1.081)	105542	2.65443	392.2(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56fdl.d
Lab Smp Id: KZ56F
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9552

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC05-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	227086	4.32
27 Naphthalene-d8	775413	387706	1550826	799898	3.16
42 Acenaphthene-d10	371068	185534	742136	403977	8.87
59 Phenanthrene-d10	554165	277082	1108330	572997	3.40
69 Chrysene-d12	436021	218010	872042	520383	19.35
134 Di-n-octylphthala	773344	386672	1546688	809872	4.72
77 Perylene-d12	622369	311184	1244738	565687	-9.11

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.01
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.00
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.00
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	0.00
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.09
134 Di-n-octylphthala	19.50	19.00	20.00	19.52	0.11
77 Perylene-d12	20.42	19.92	20.92	20.45	0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56F
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9552

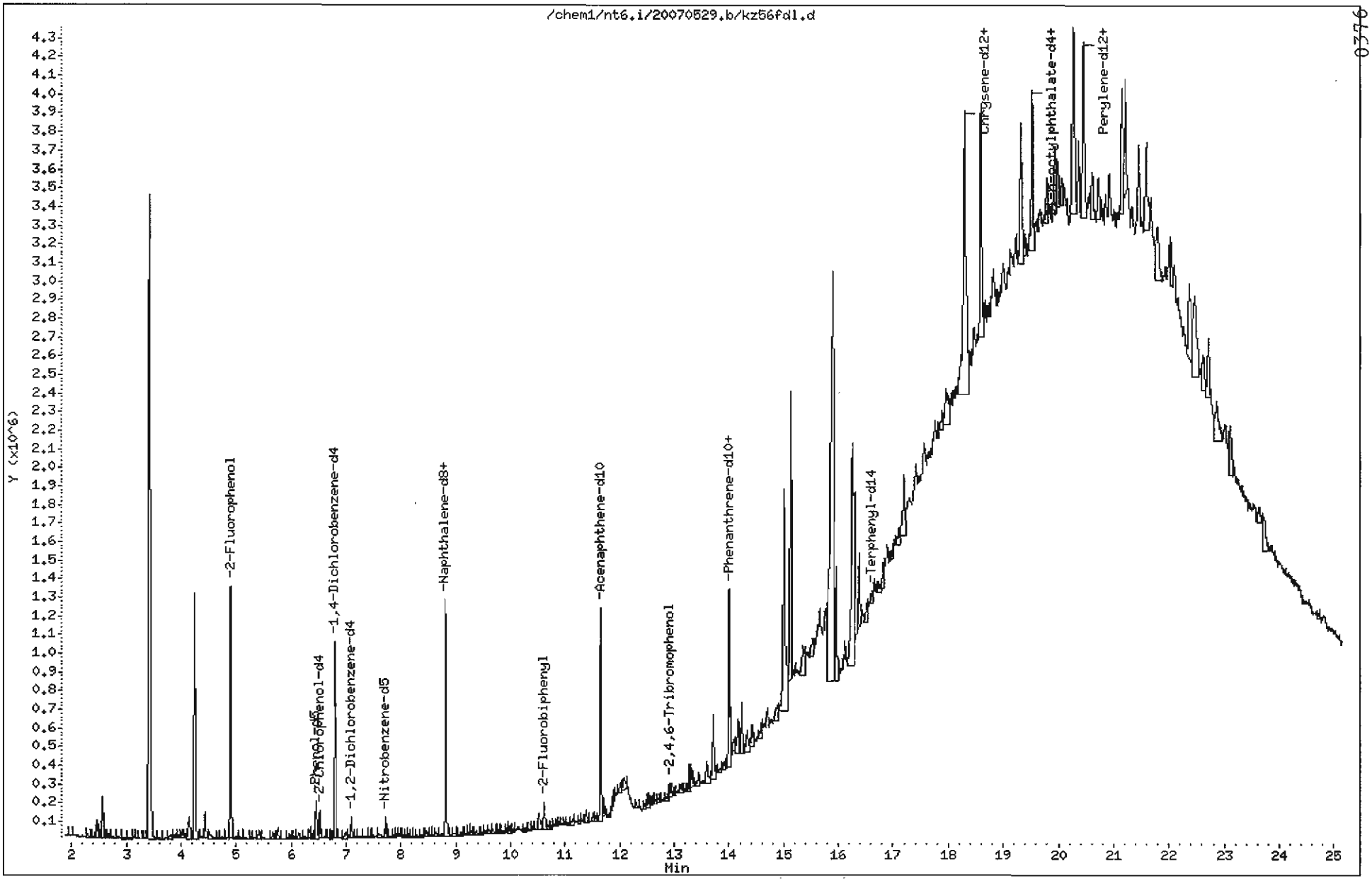
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC05-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1108	428.3	38.65	11-84
$ 2 Phenol-d5	1108	488.5	44.09	25-86
$ 5 2-Chlorophenol-d4	1108	468.3	42.26	23-91
$ 10 1,2-Dichlorobenzen	738.8	298.7	40.43	24-90
$ 18 Nitrobenzene-d5	738.8	345.5	46.77	26-88
$ 36 2-Fluorobiphenyl	738.8	345.7	46.79	34-91
$ 55 2,4,6-Tribromophen	1108	530.2	47.85	25-107
$ 66 Terphenyl-d14	738.8	337.0	45.62	22-100

Data File: /chem1/nt6.i/20070529.b/kz56fd1.d
Date : 29-MAY-2007 10:59
Client ID: Y3-RC05-S
Sample Info: KZ56F,5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



0776

Data File: /chem1/nt6.i/20070529.b/kz56fd1.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

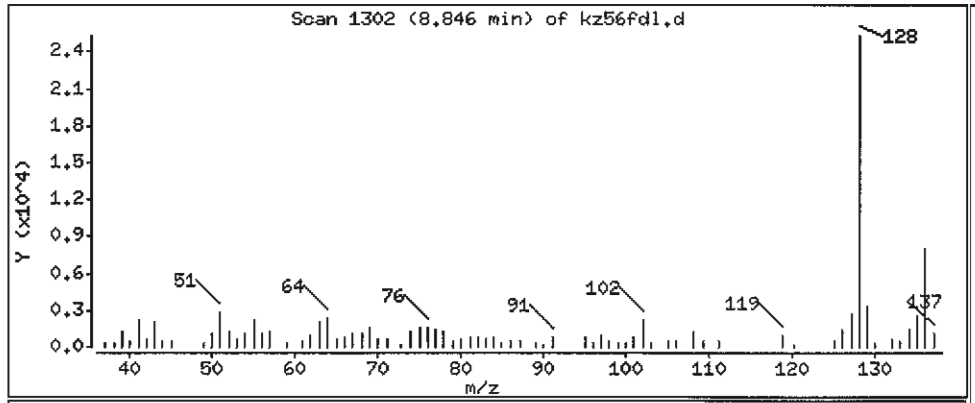
Operator: LJR/VTS

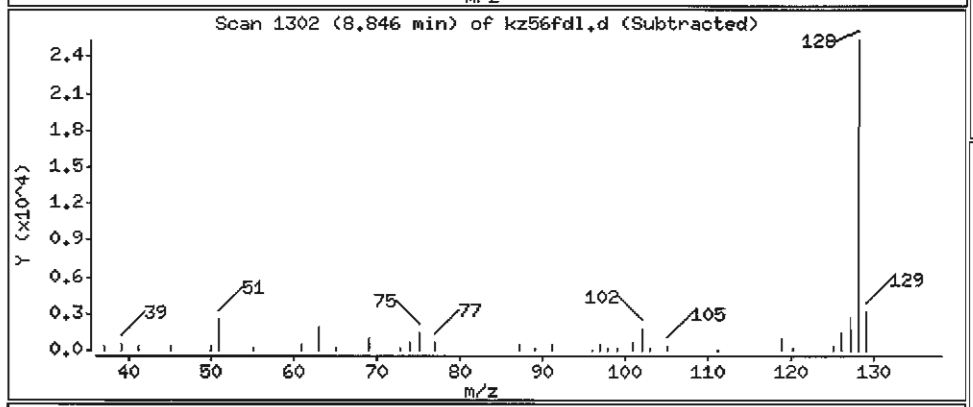
Column phase: ZB-5

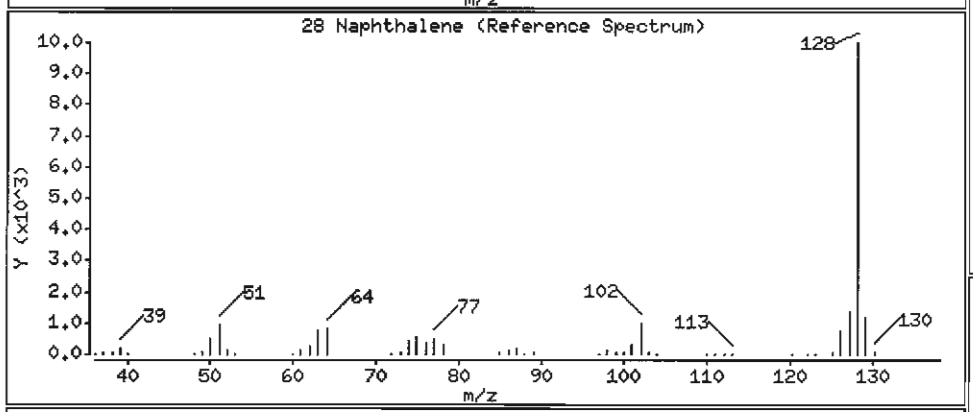
Column diameter: 0.32

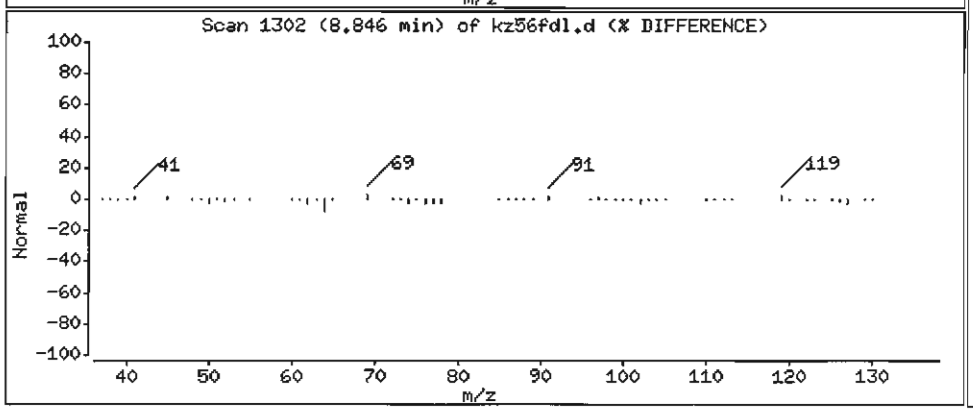
28 Naphthalene

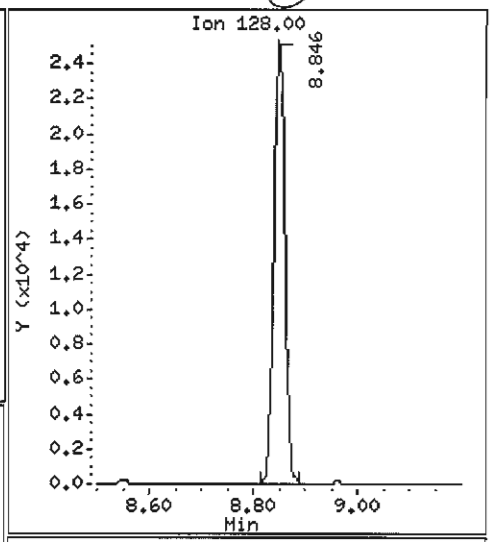
Concentration: 113.0 ug/kg

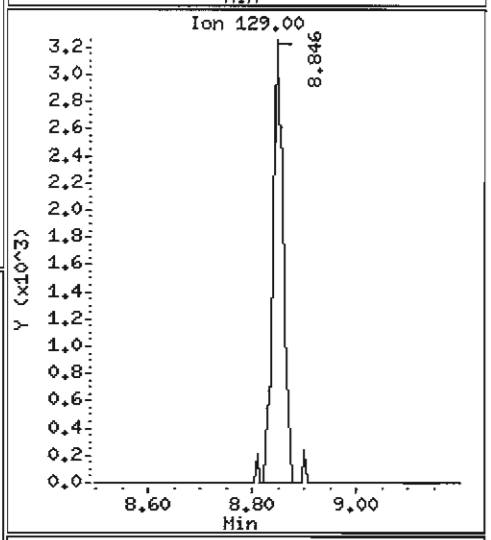


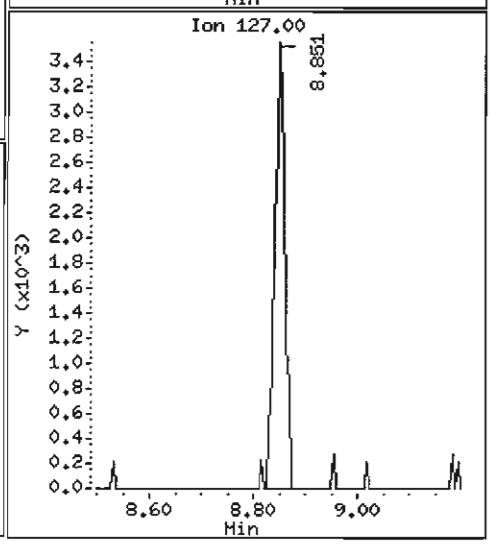












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

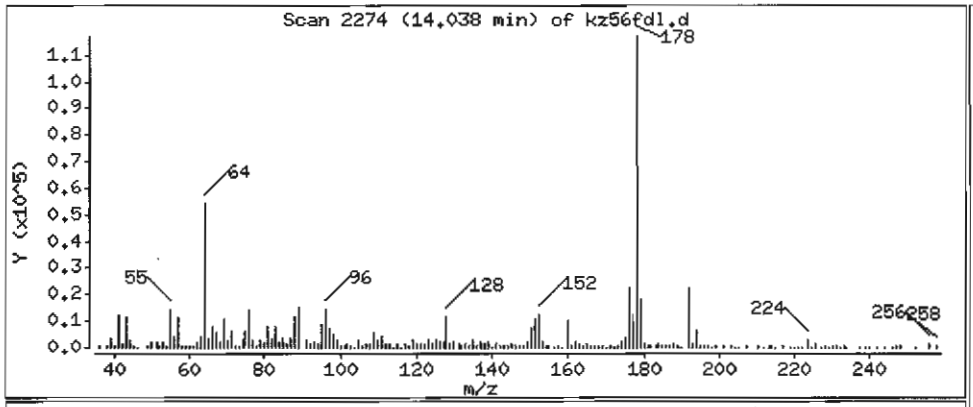
Operator: LJR/VTS

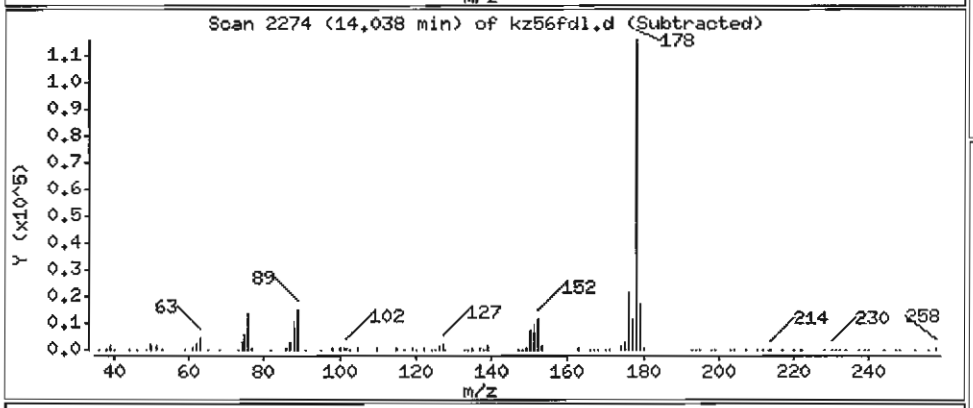
Column phase: ZB-5

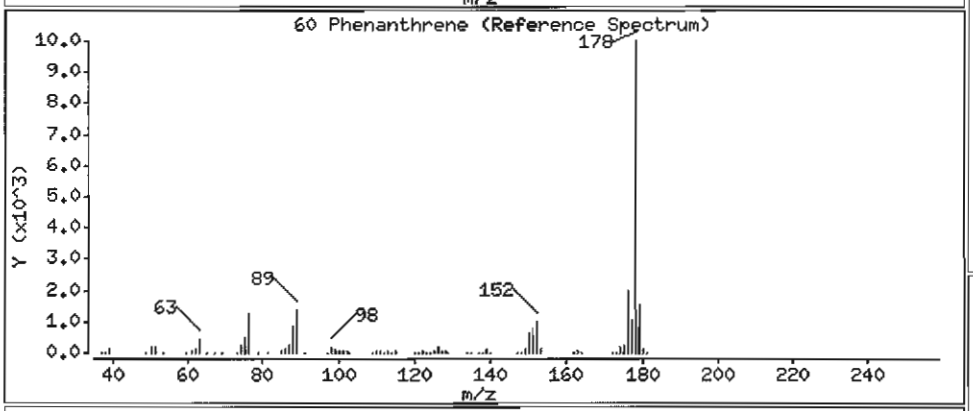
Column diameter: 0.32

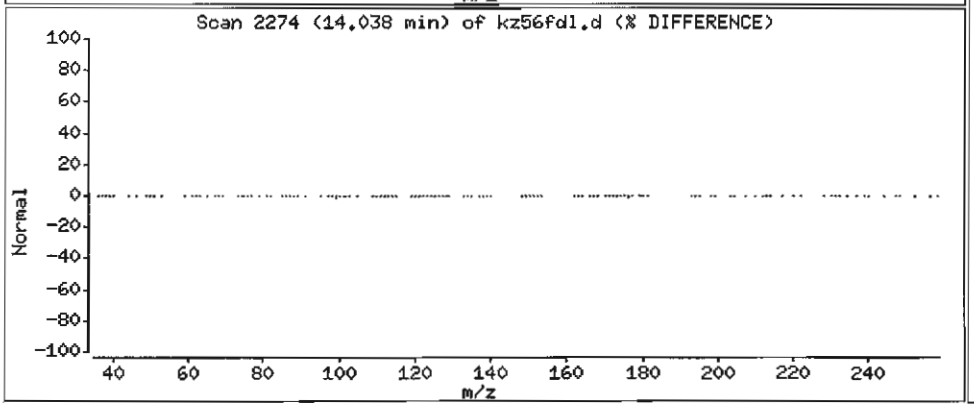
60 Phenanthrene

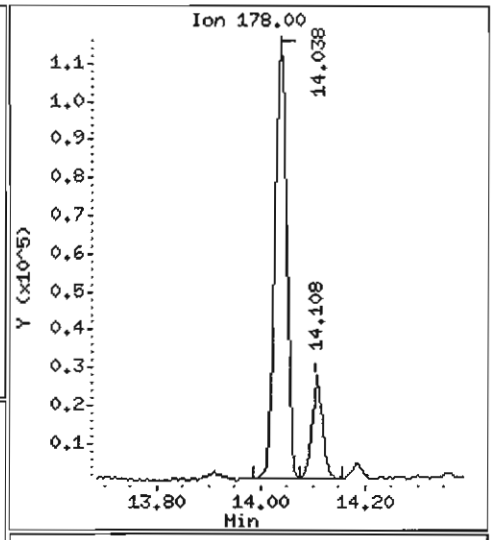
Concentration: 676.4 ug/kg

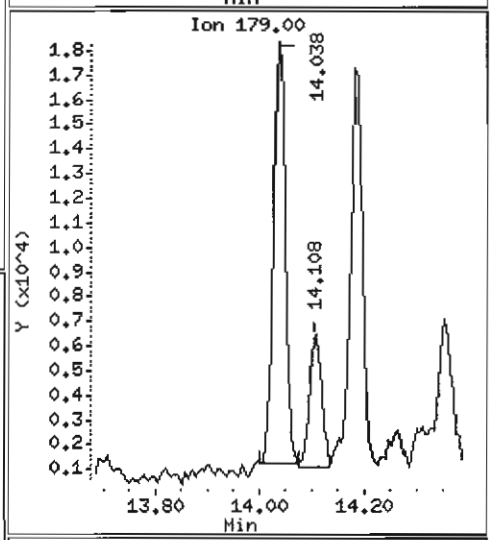


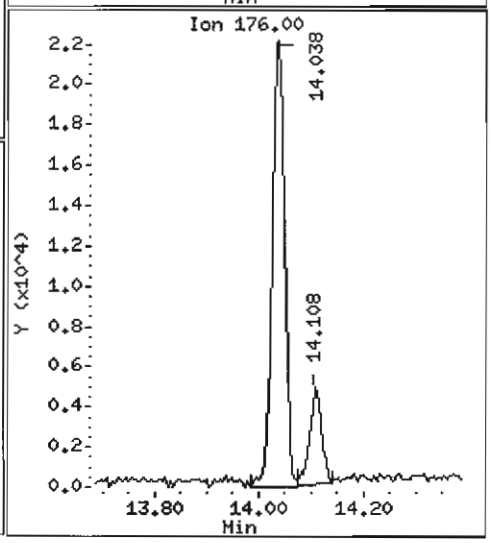












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

Operator: LJR/VTS

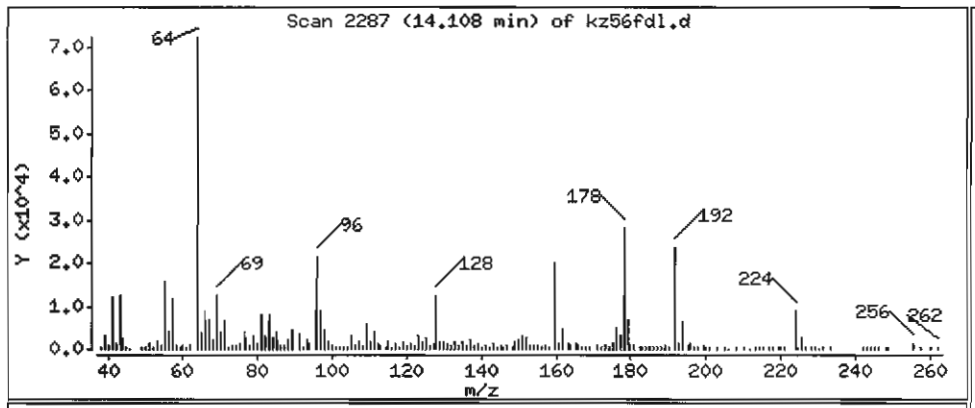
Column phase: ZB-5

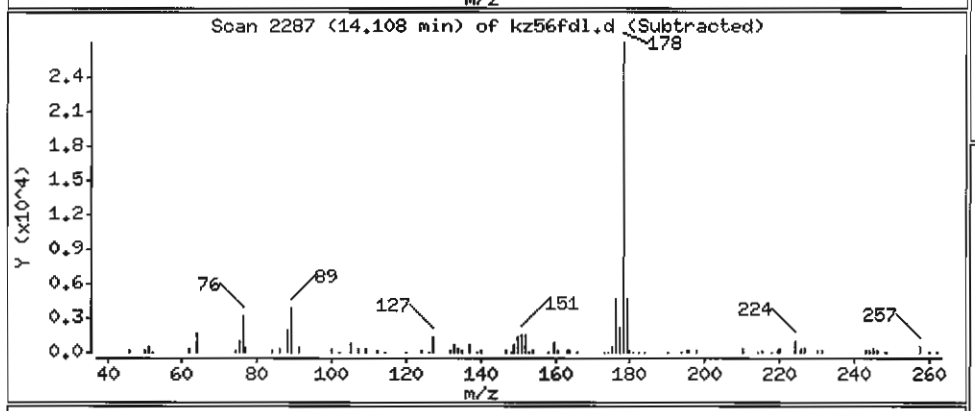
Column diameter: 0.32

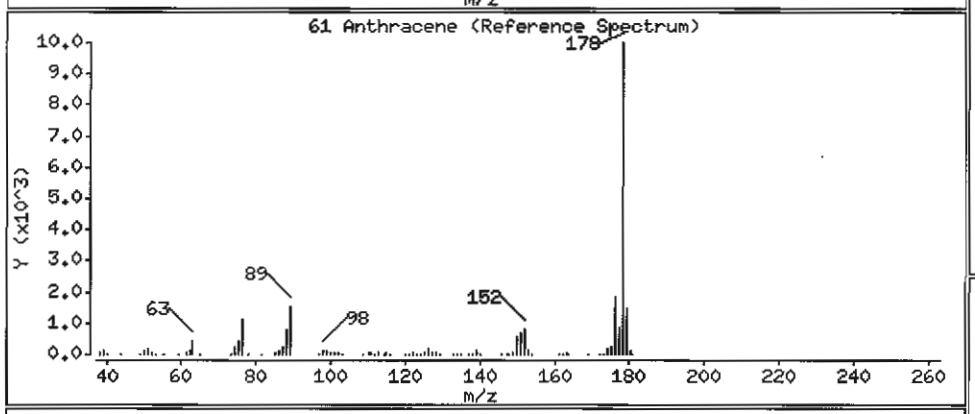
61 Anthracene

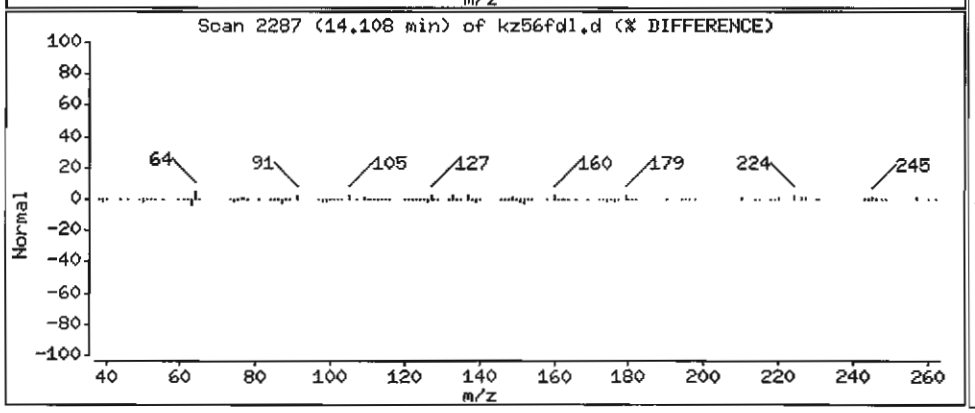
Concentration: 142.4 ug/kg

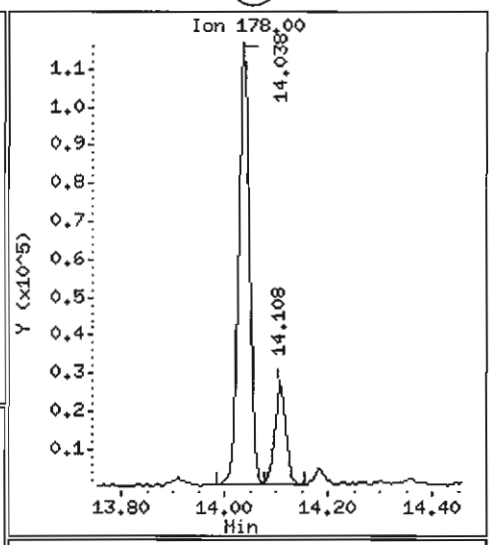
(J) CRL

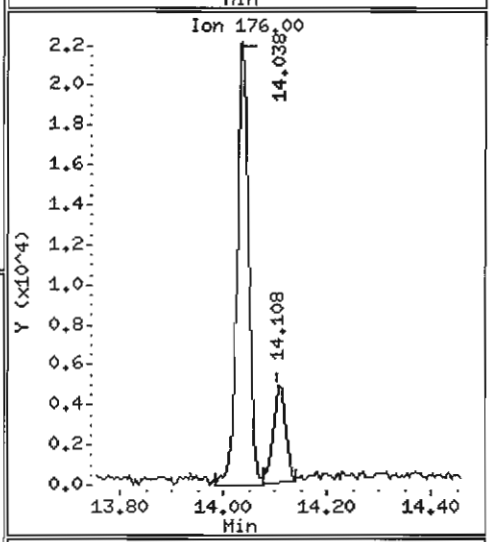


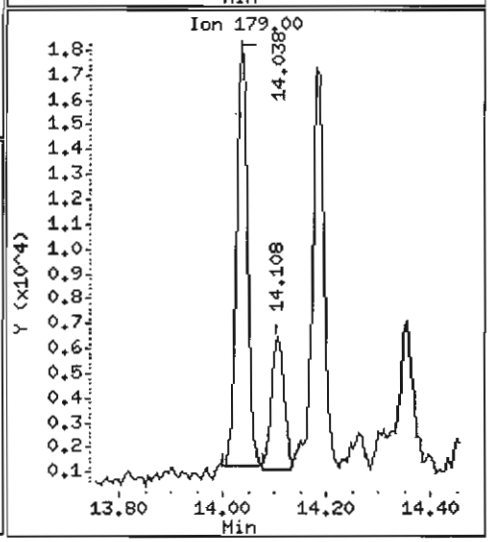












Data File: /chem1/nt6.i/20070529.b/kz56fd1.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

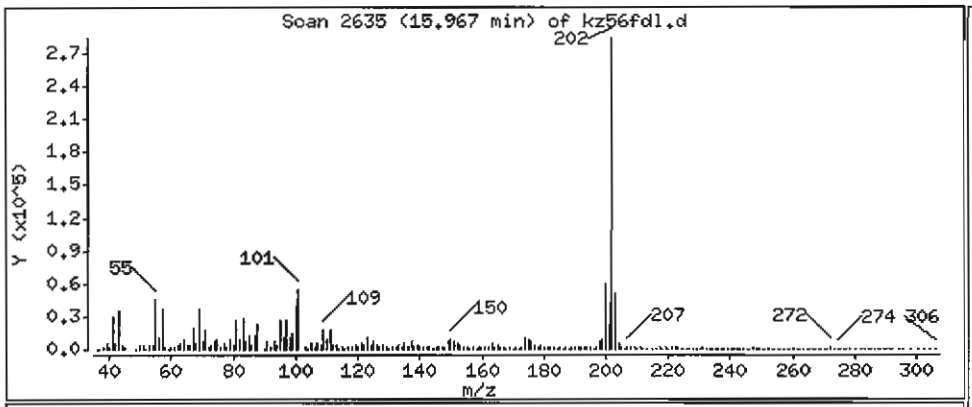
Operator: LJR/VTS

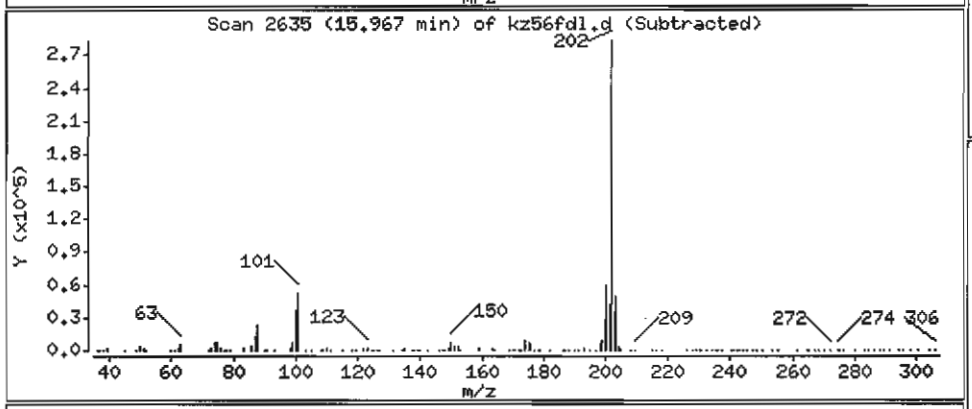
Column phase: ZB-5

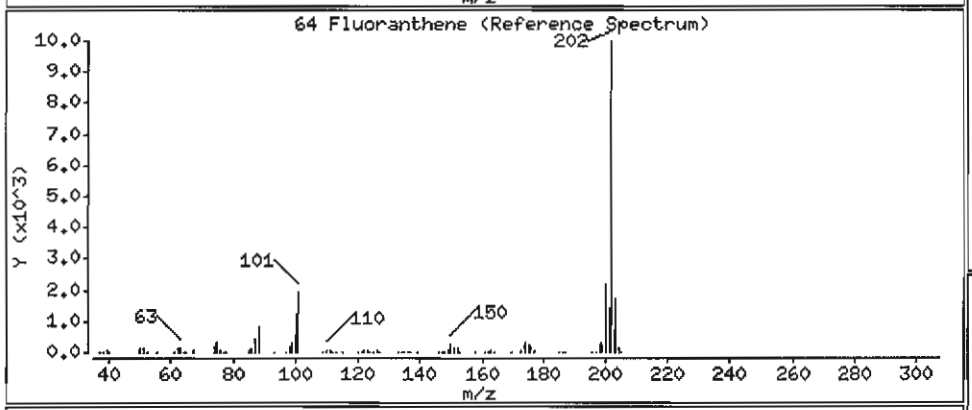
Column diameter: 0.32

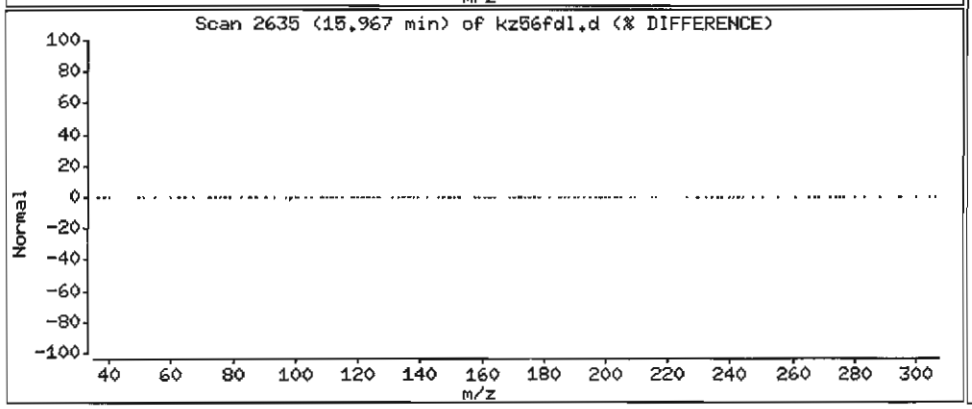
64 Fluoranthene

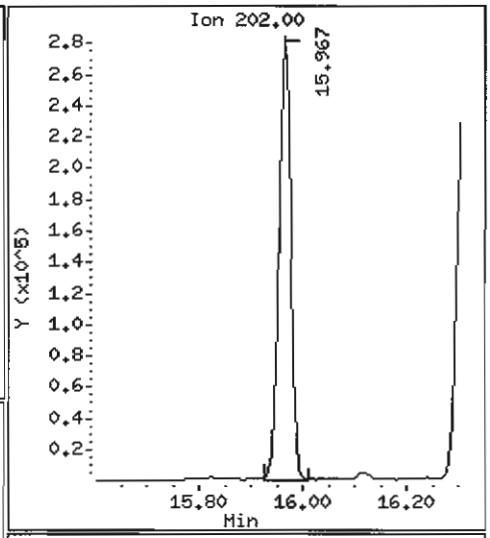
Concentration: 1816 ug/kg

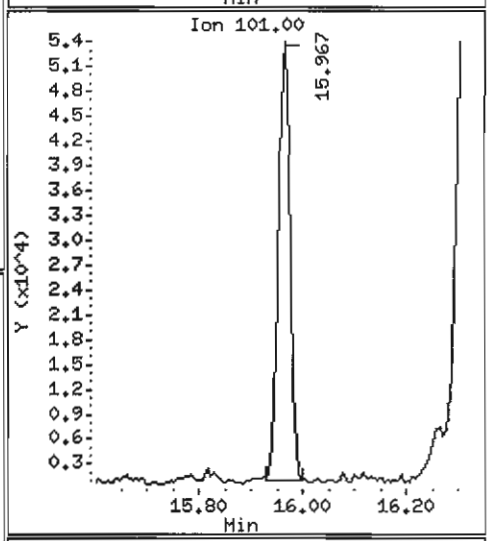


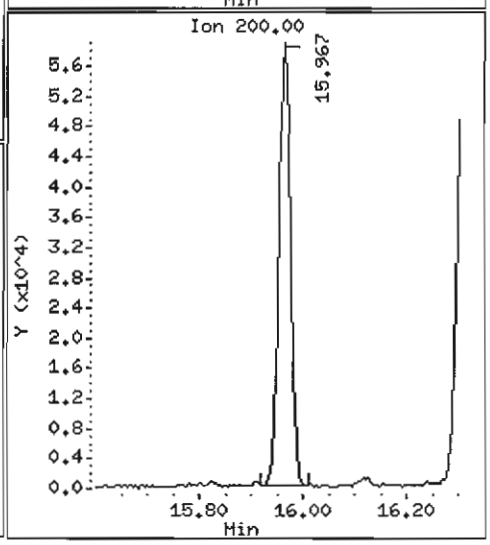












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

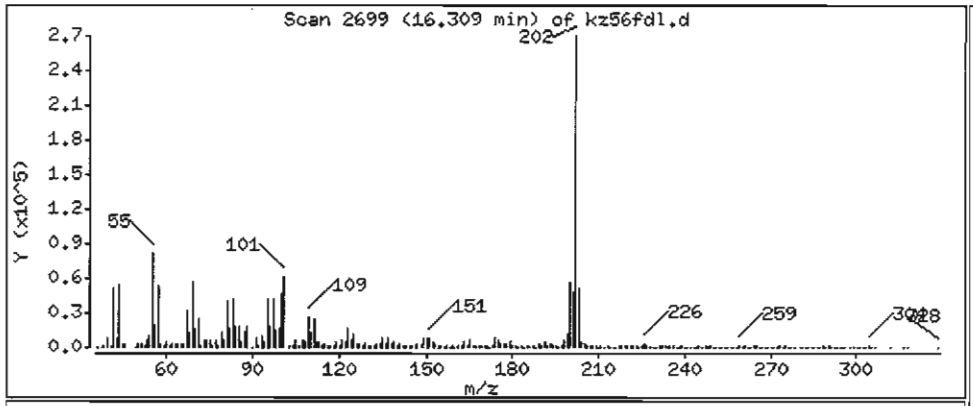
Operator: LJR/VTS

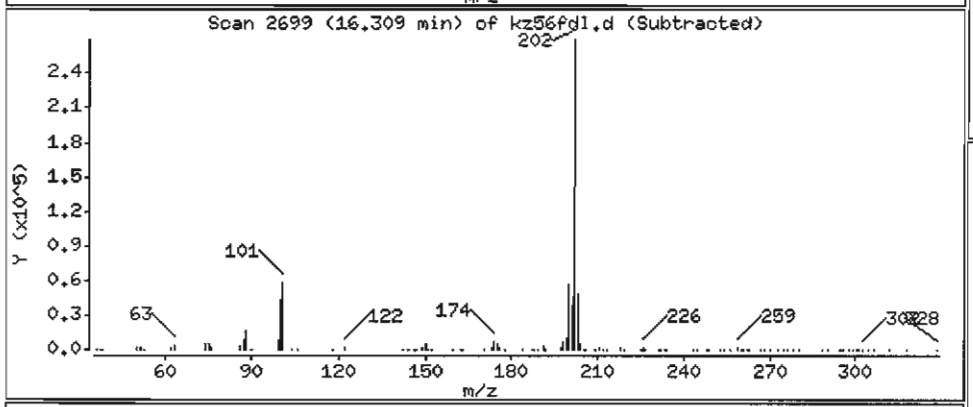
Column phase: ZB-5

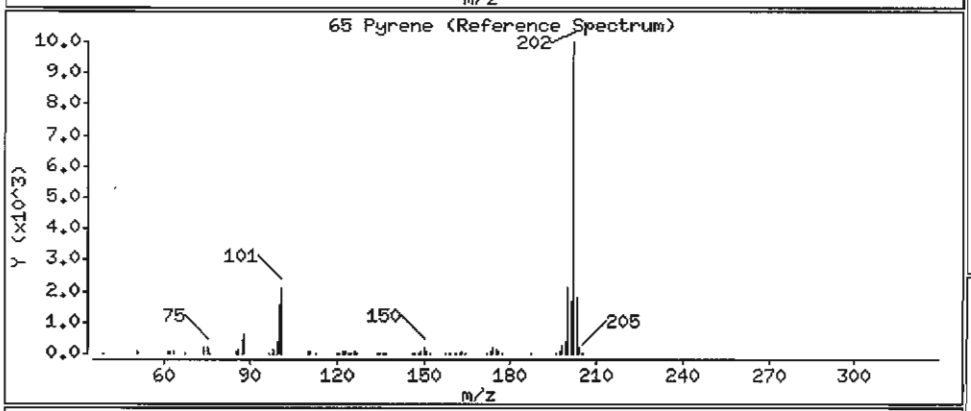
Column diameter: 0.32

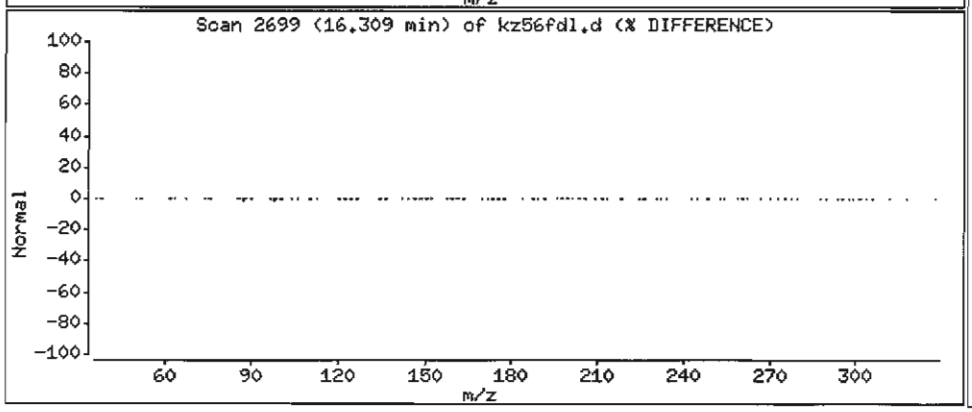
65 Pyrene

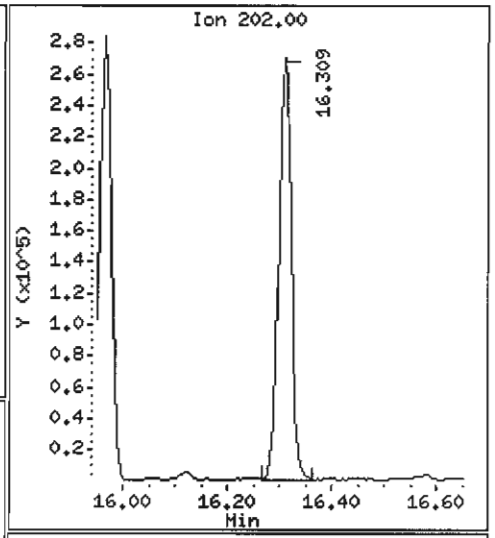
Concentration: 1524 ug/kg

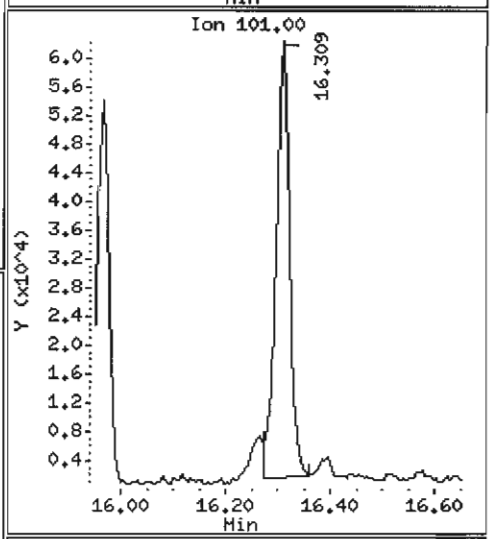


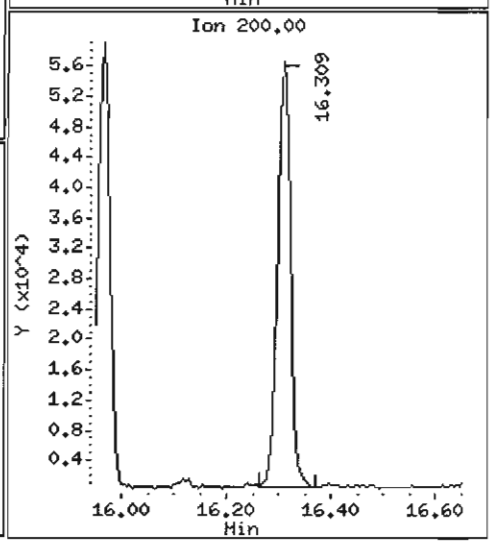












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

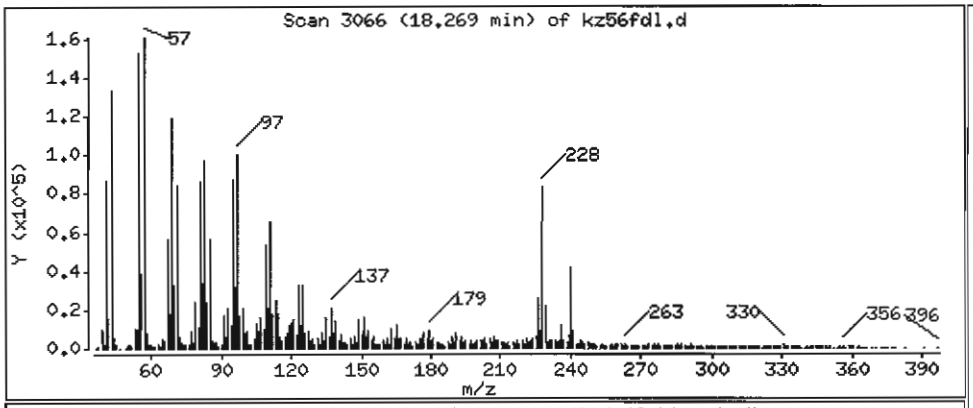
Operator: LJR/VTS

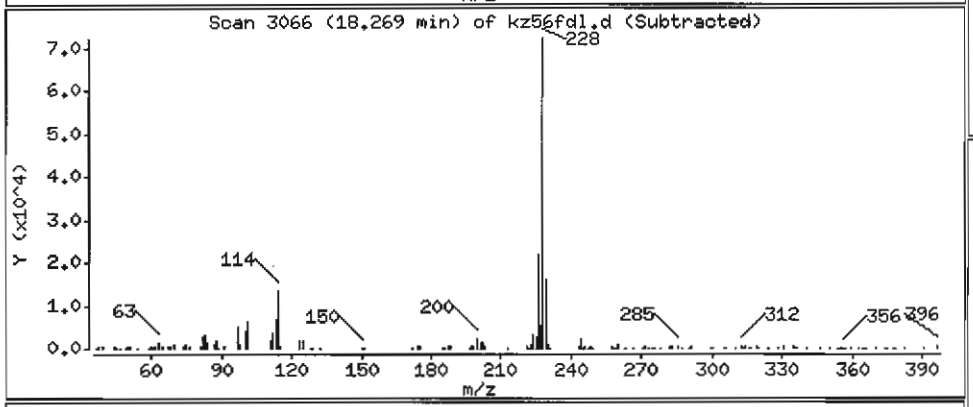
Column phase: ZB-5

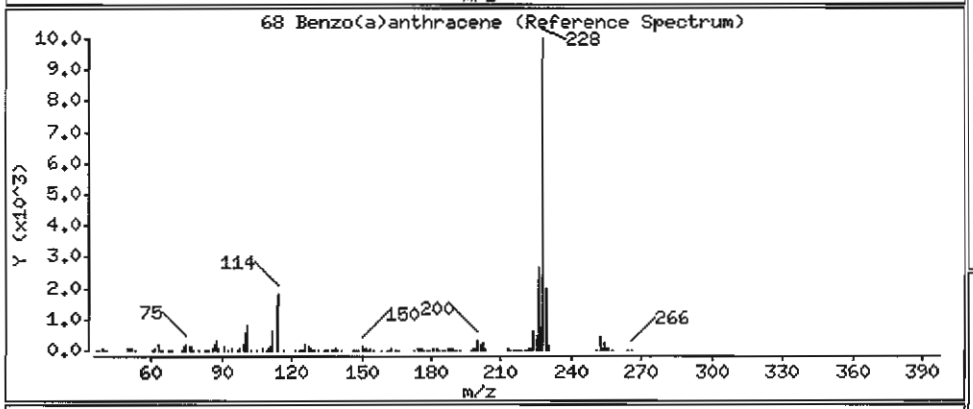
Column diameter: 0.32

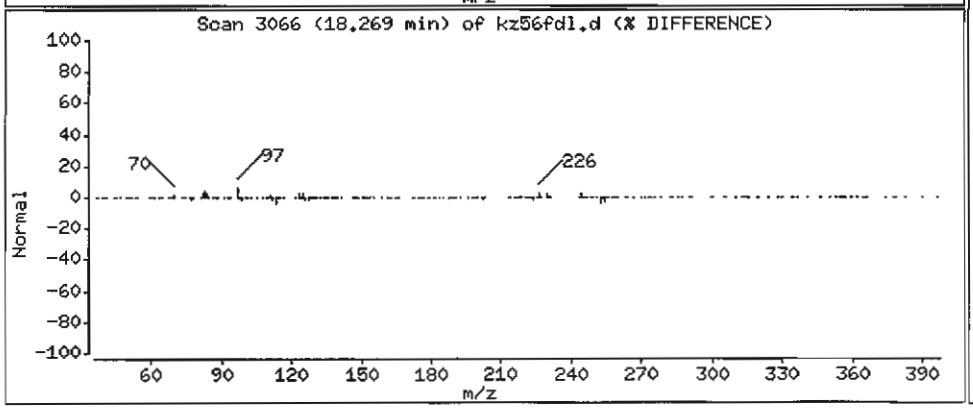
68 Benzo(a)anthracene

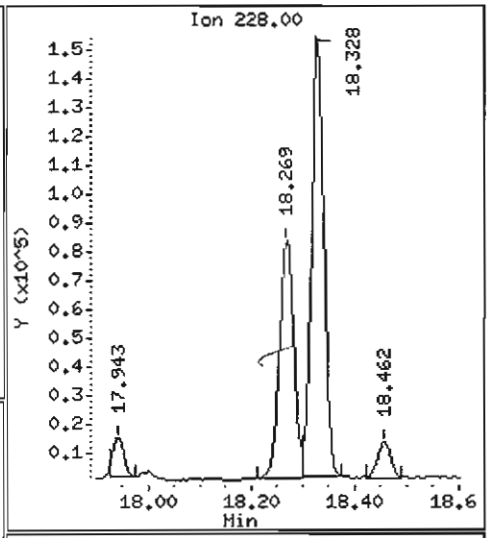
Concentration: 635.7 ug/kg

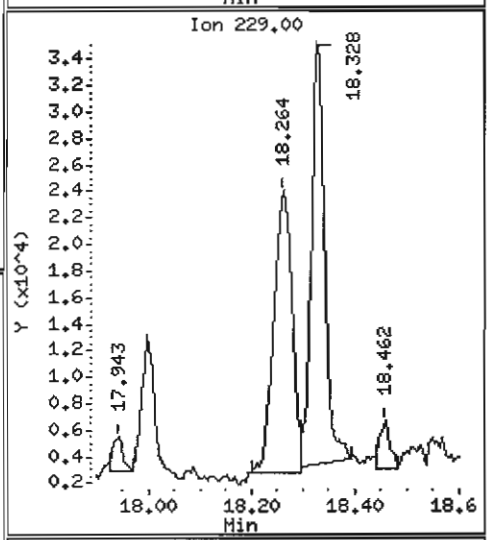


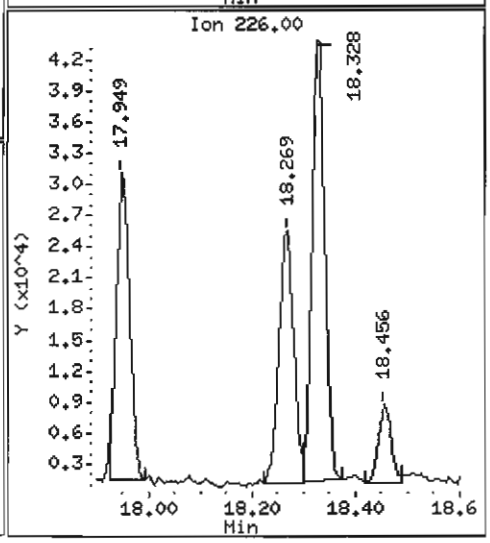












Data File: /chem1/nt6.i/20070529.b/kz56fd1.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

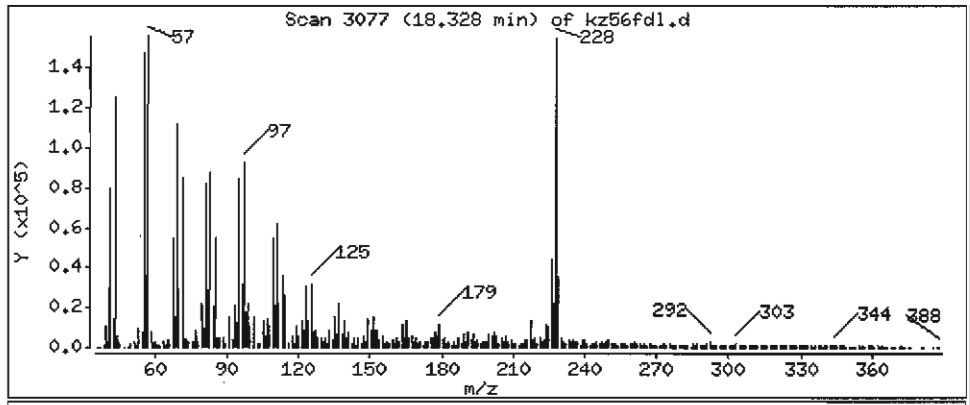
Operator: LJR/VTS

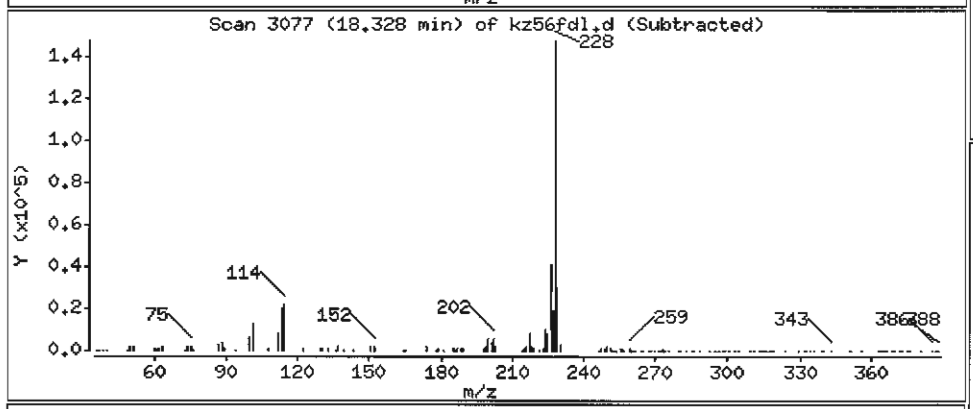
Column phase: ZB-5

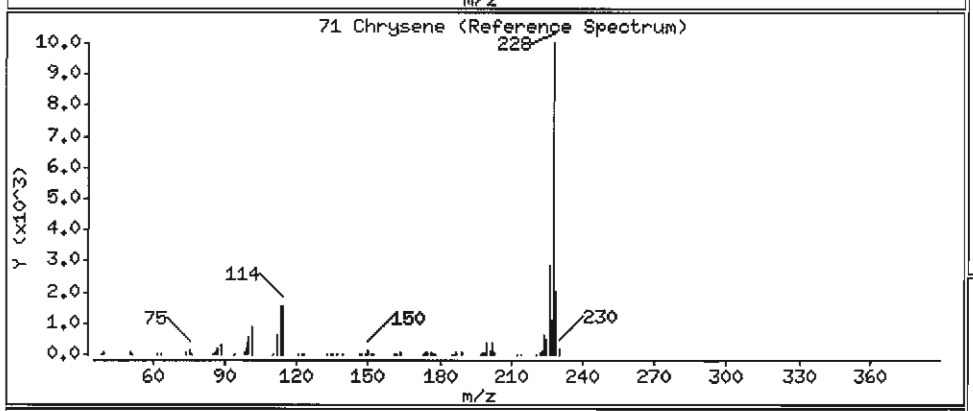
Column diameter: 0.32

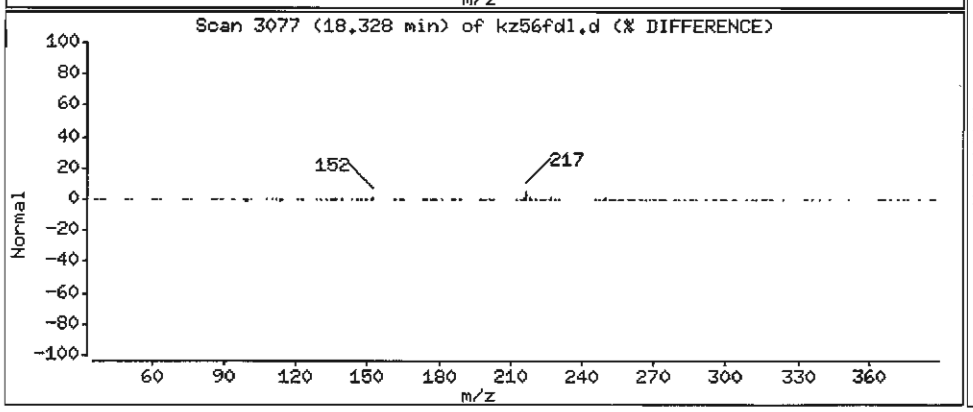
71 Chrysene

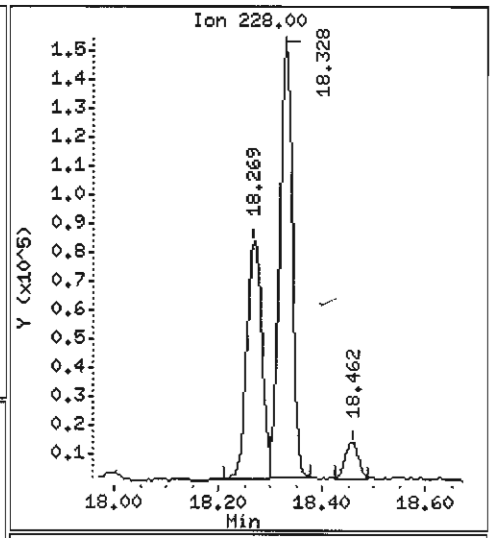
Concentration: 963.3 ug/kg

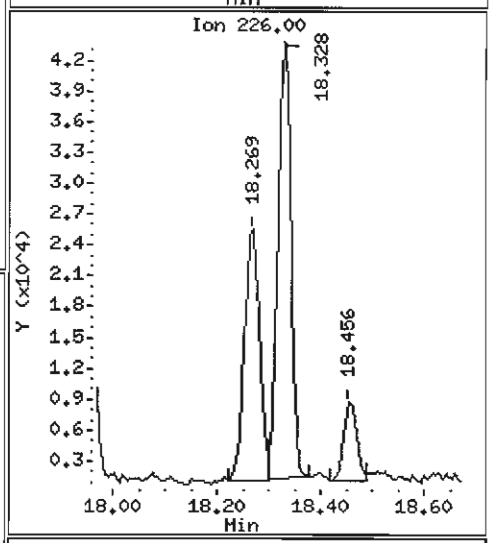


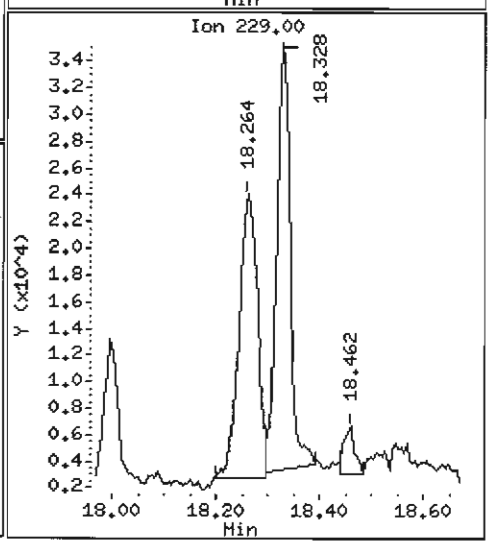












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

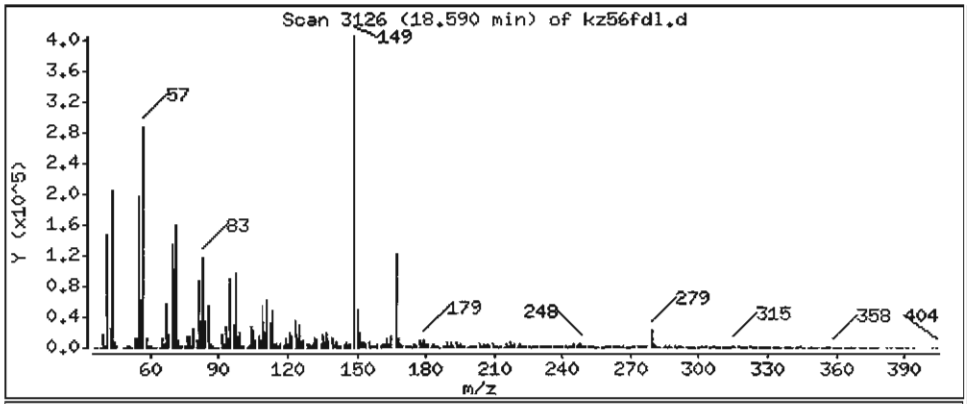
Operator: LJR/VTS

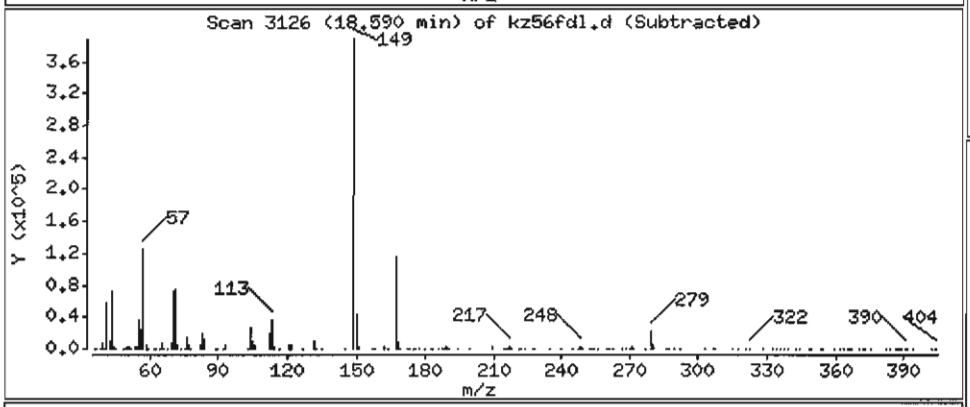
Column phase: ZB-5

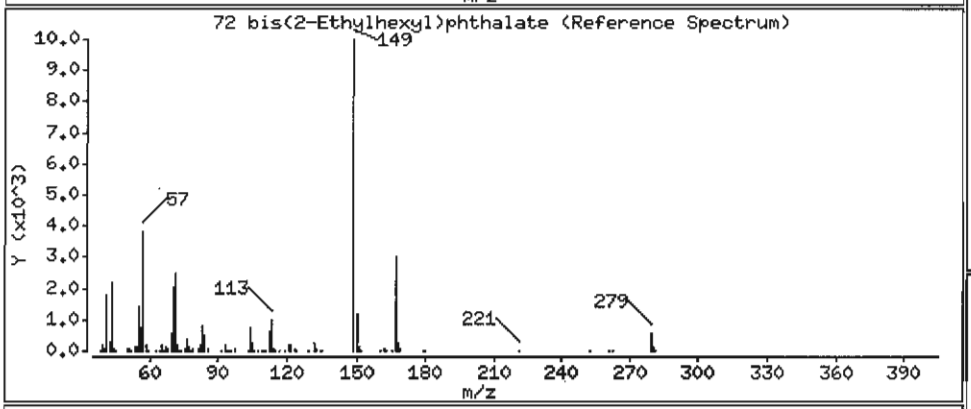
Column diameter: 0.32

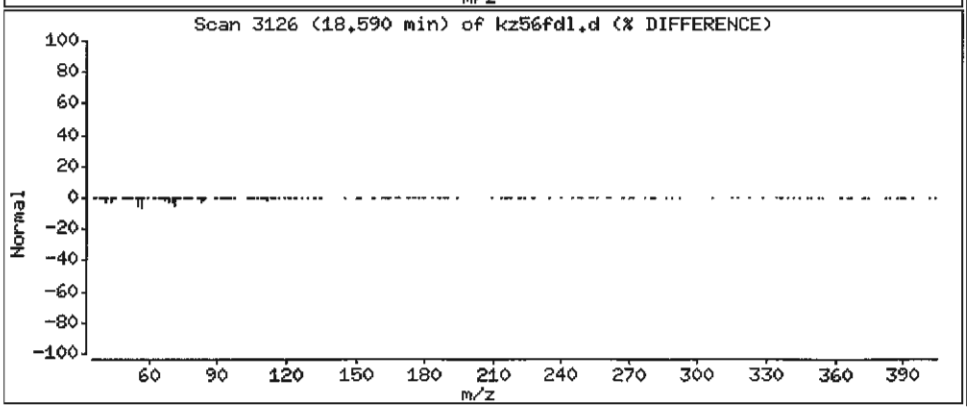
72 bis(2-Ethylhexyl)phthalate

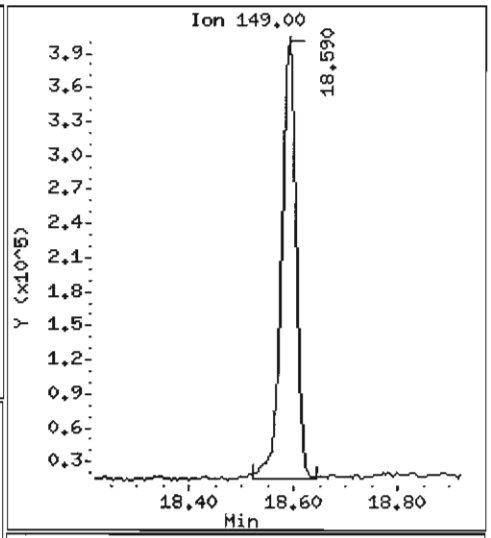
Concentration: 4052 ug/kg

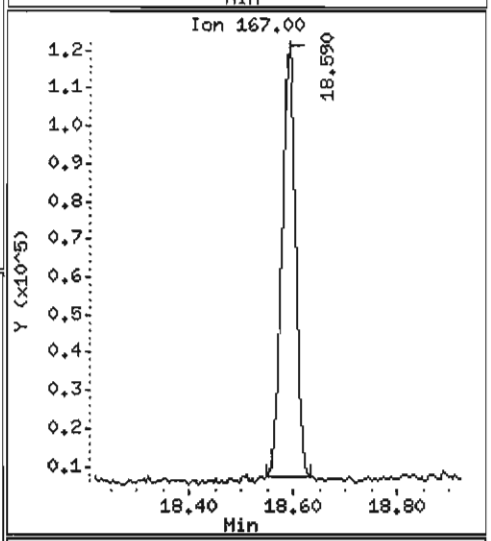


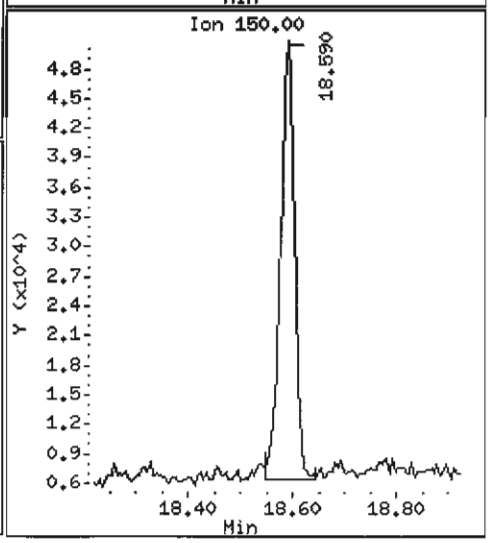












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

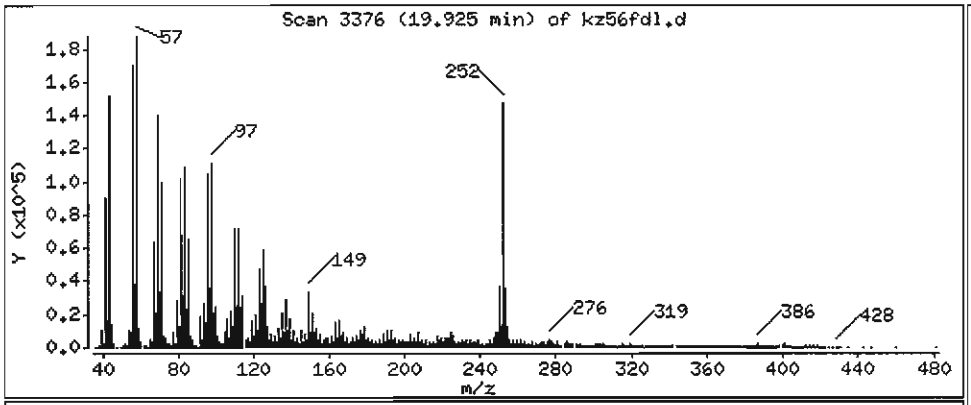
Operator: LJR/VTS

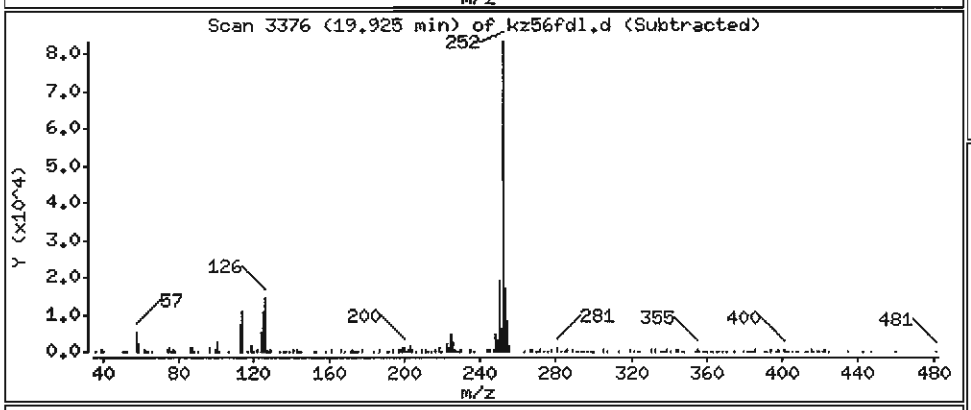
Column phase: ZB-5

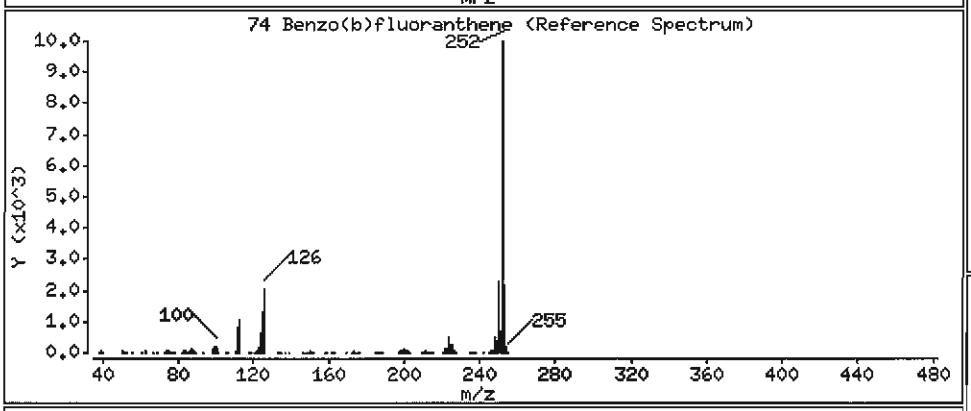
Column diameter: 0.32

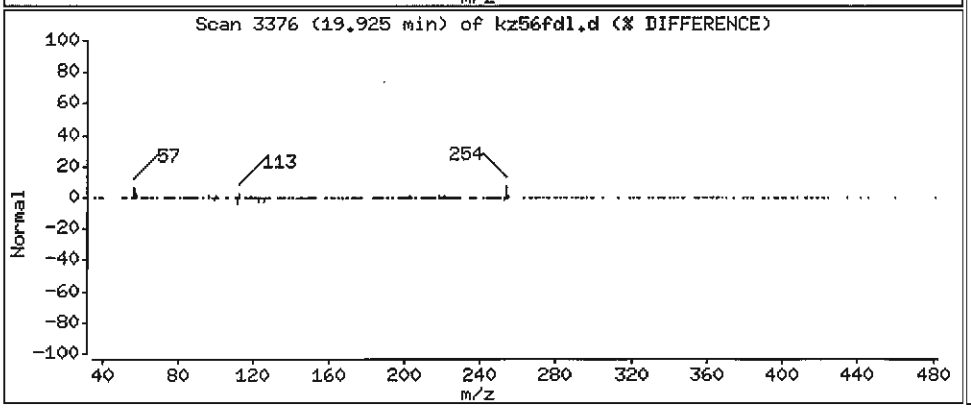
74 Benzo(b)fluoranthene

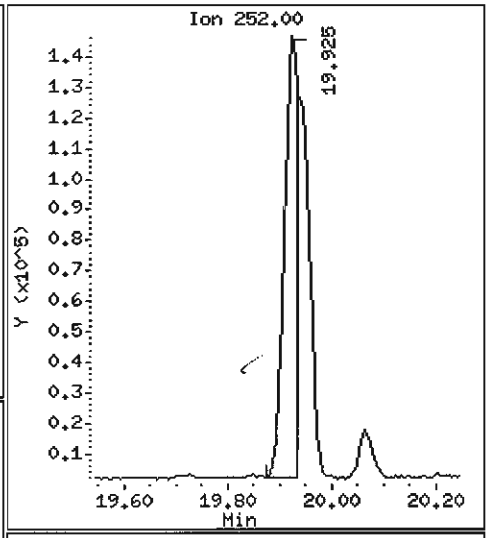
Concentration: 1073 ug/kg

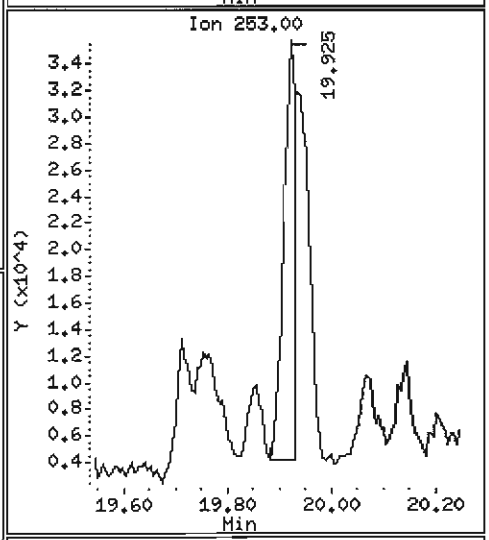


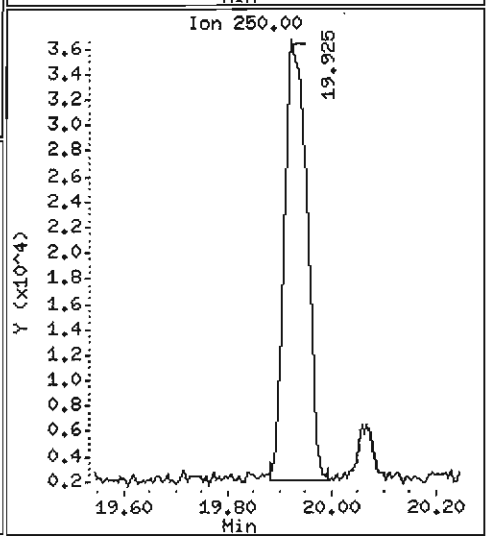












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

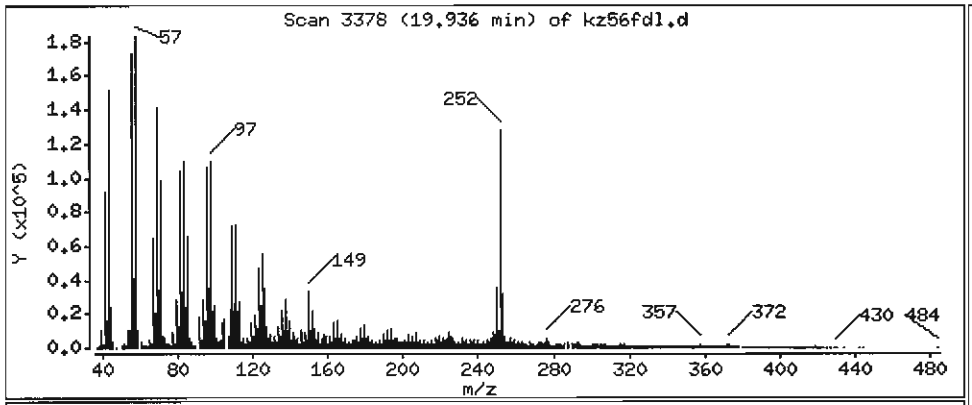
Operator: LJR/VTS

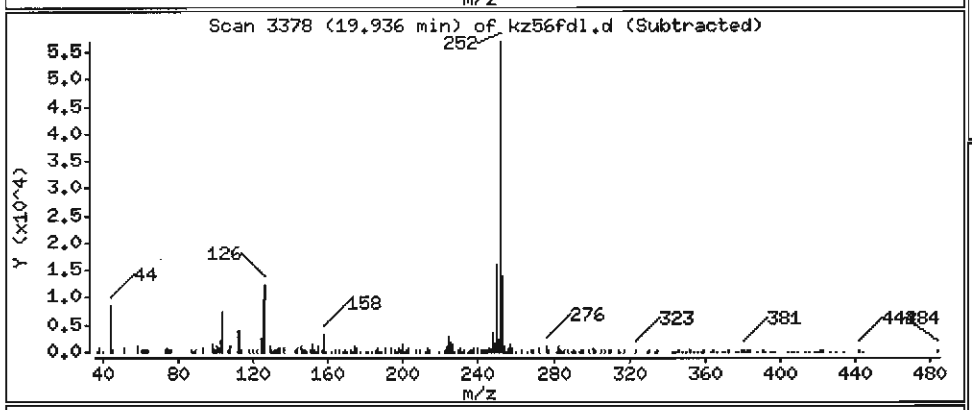
Column phase: ZB-5

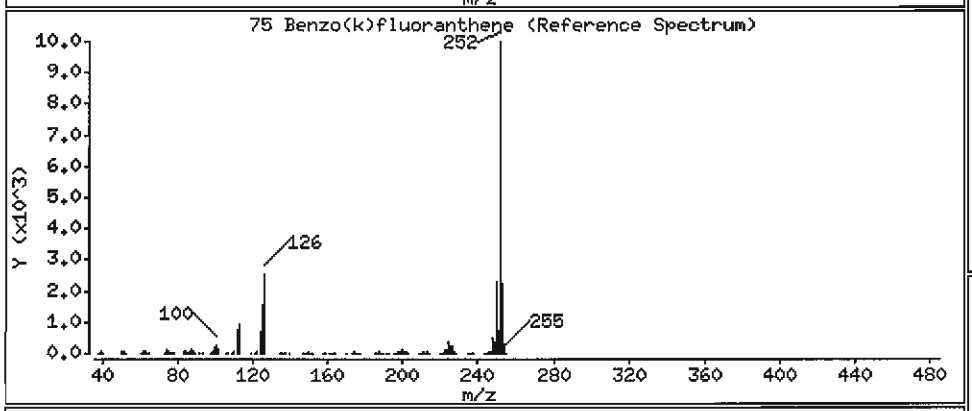
Column diameter: 0.32

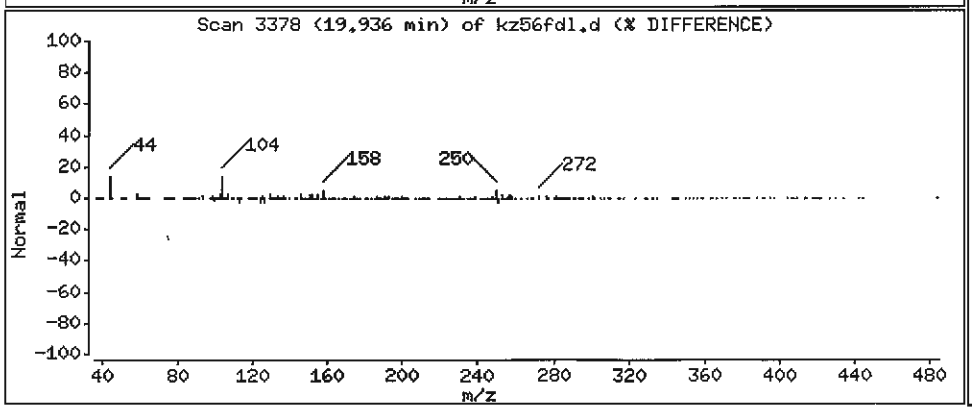
75 Benzo(k)fluoranthene

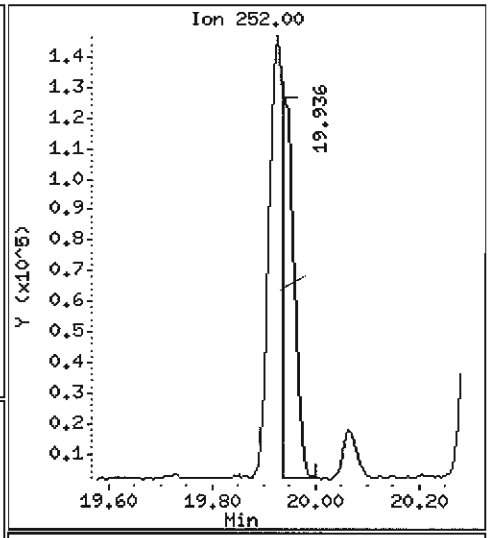
Concentration: 871.6 ug/kg

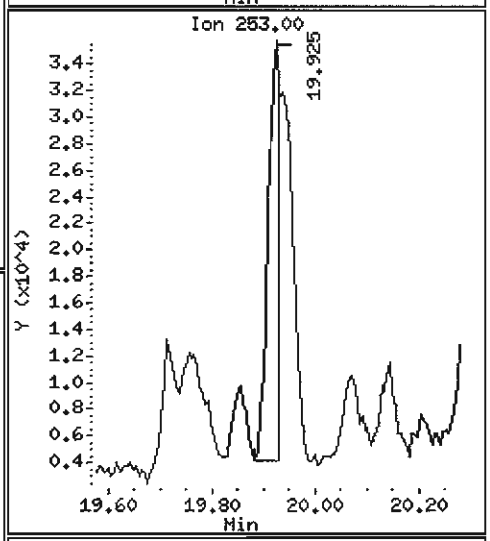


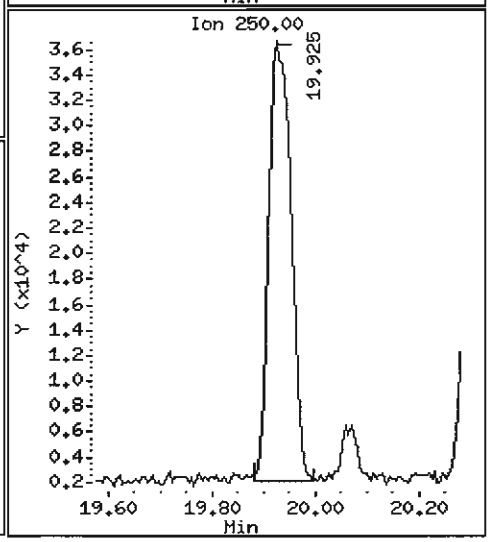












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

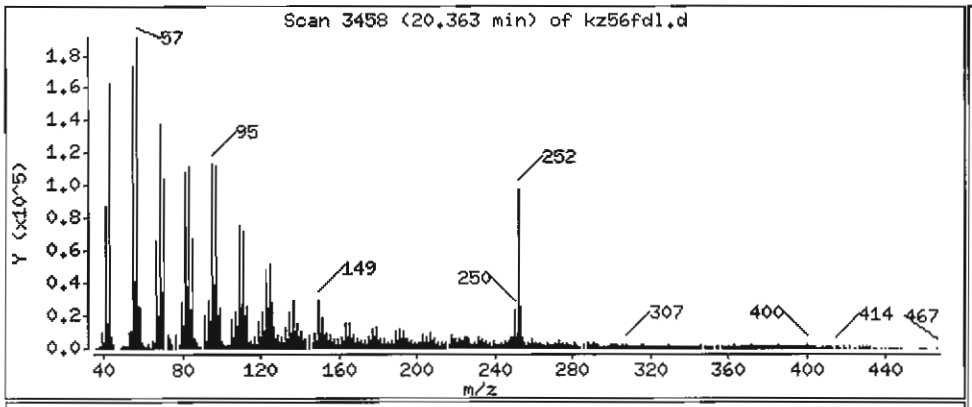
Operator: LJR/VTS

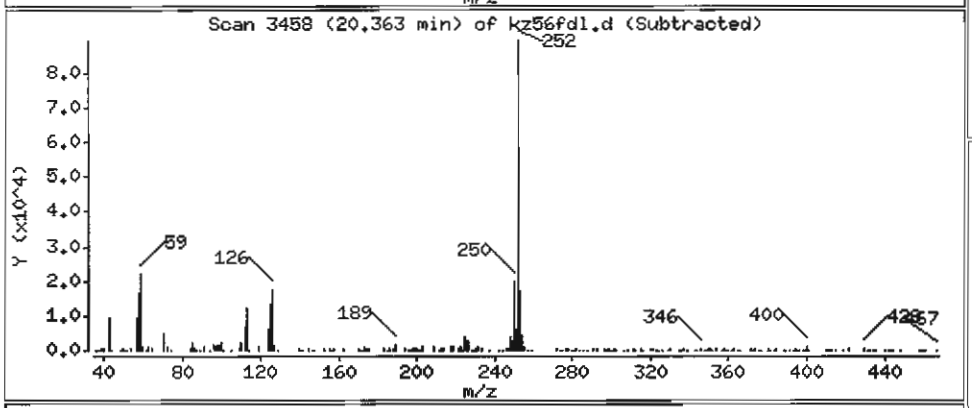
Column phase: ZB-5

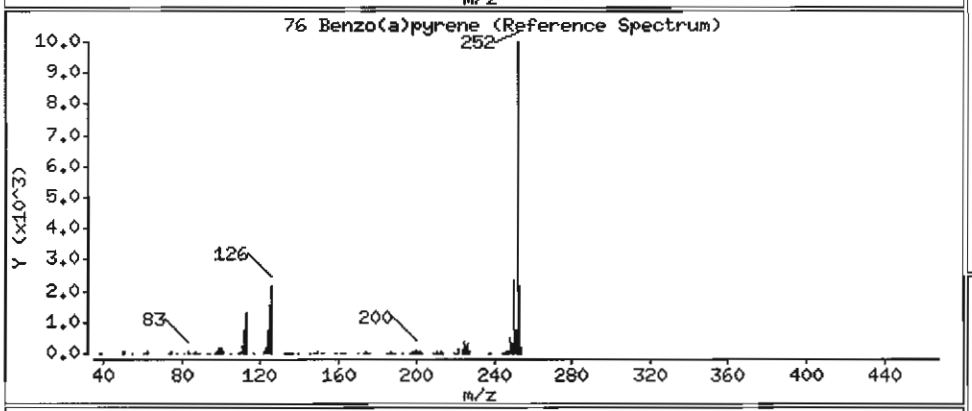
Column diameter: 0.32

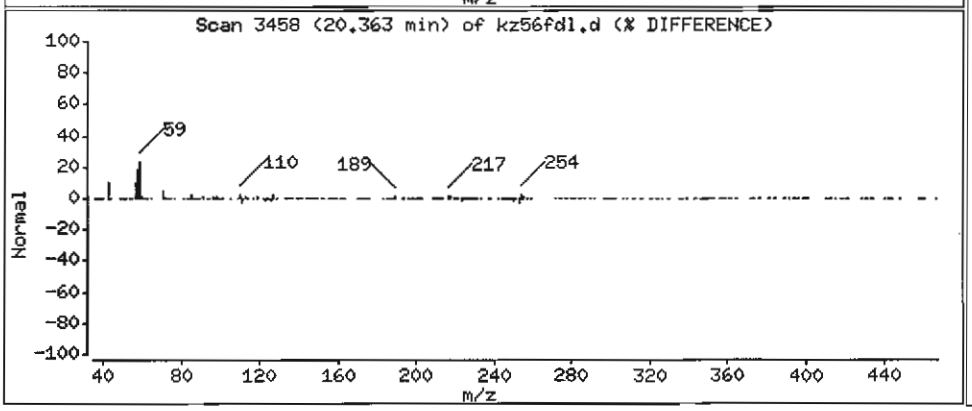
76 Benzo(a)pyrene

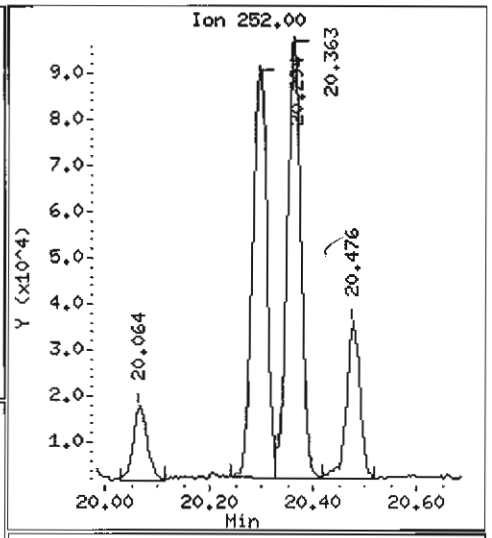
Concentration: 735.2 ug/kg

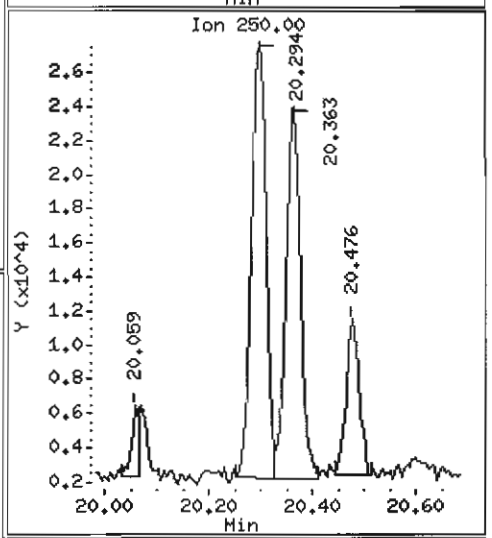


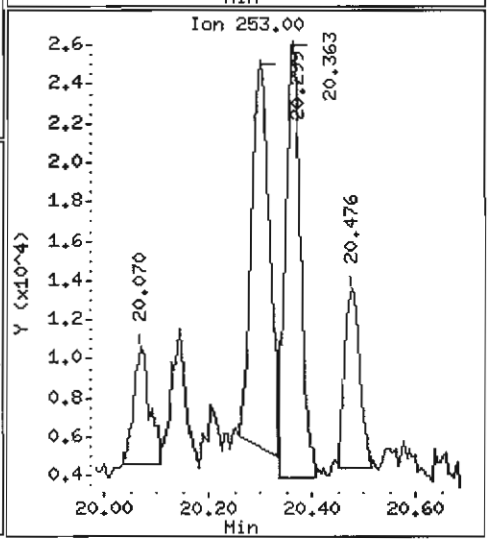












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

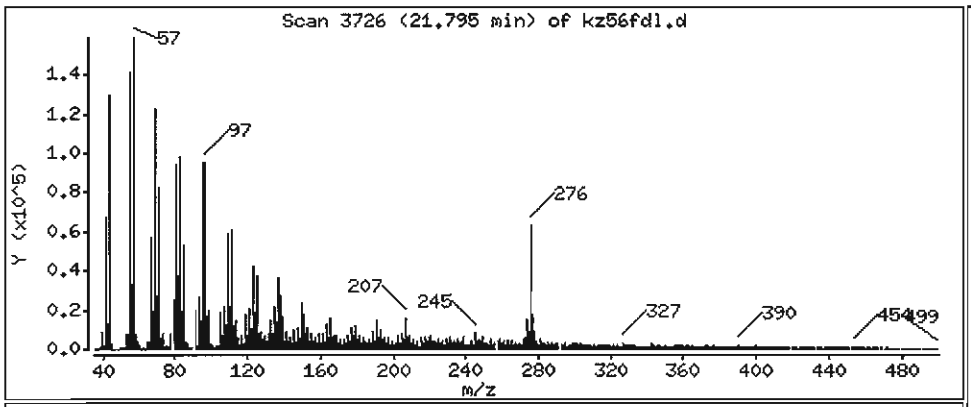
Operator: LJR/VTS

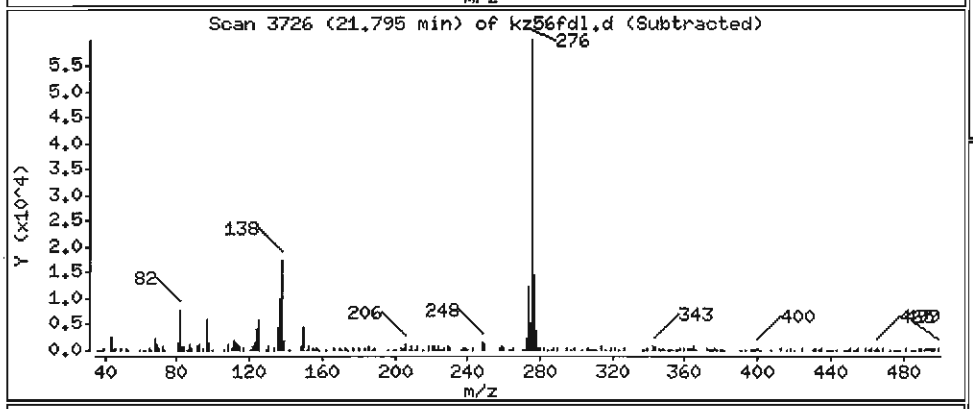
Column phase: ZB-5

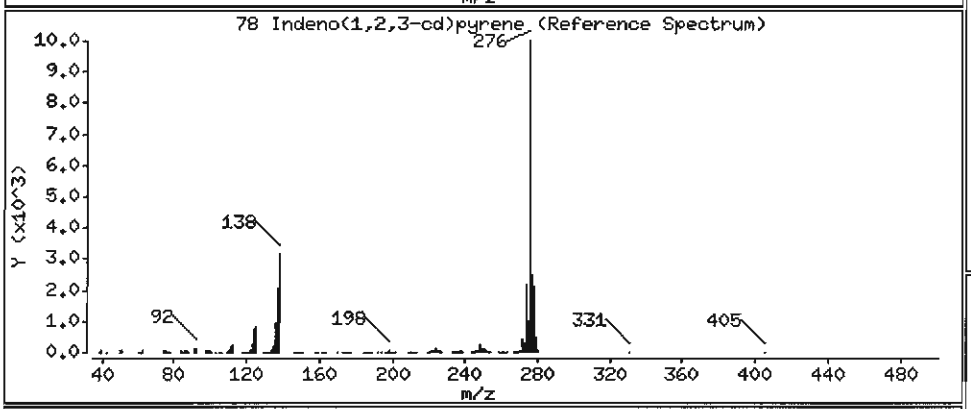
Column diameter: 0.32

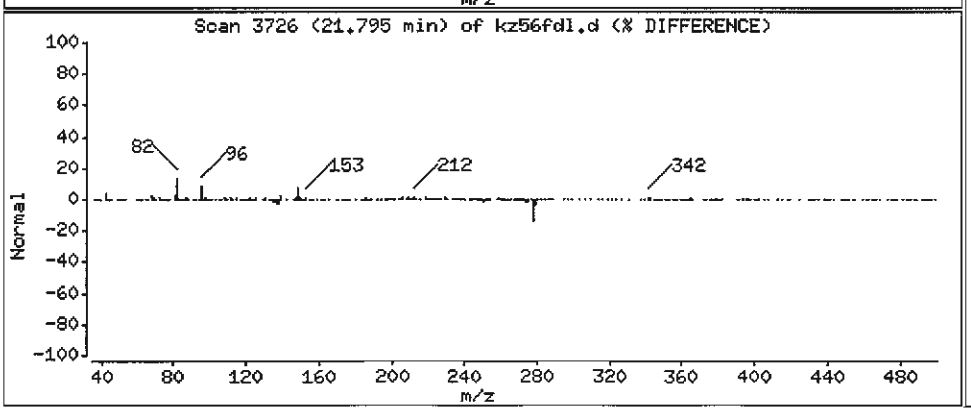
78 Indeno(1,2,3-cd)pyrene

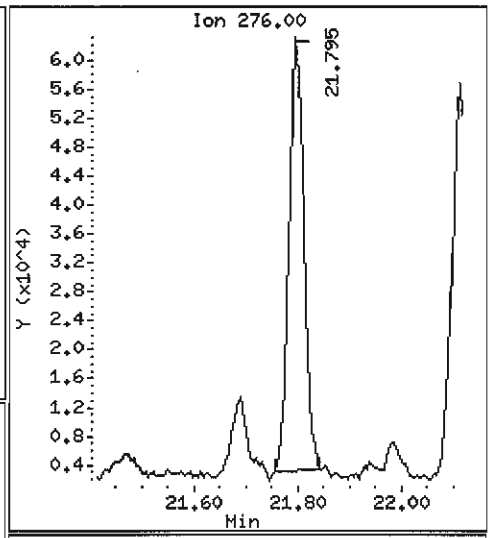
Concentration: 404.8 ug/kg

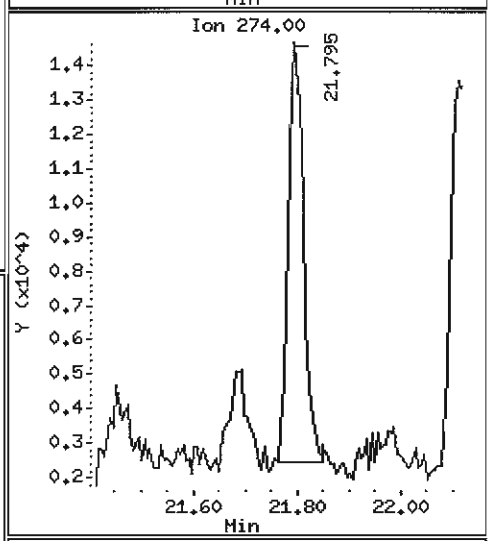


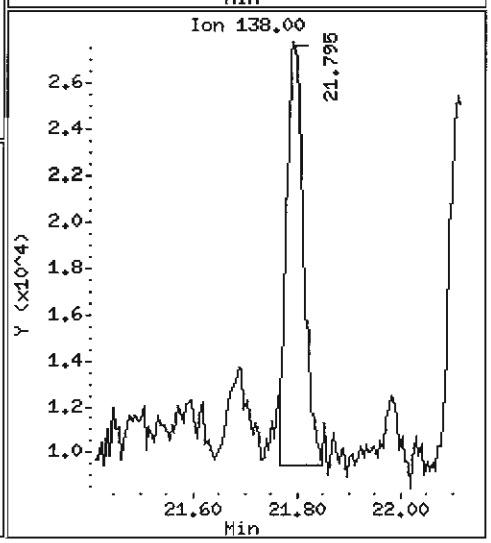












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

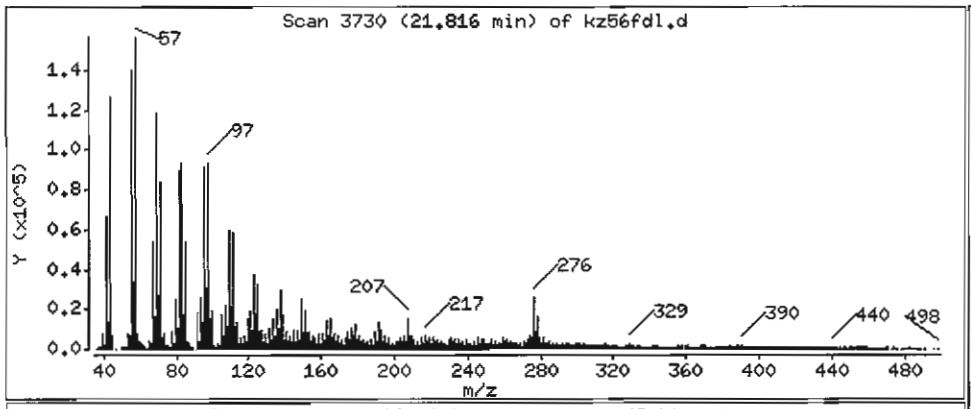
Operator: LJR/VTS

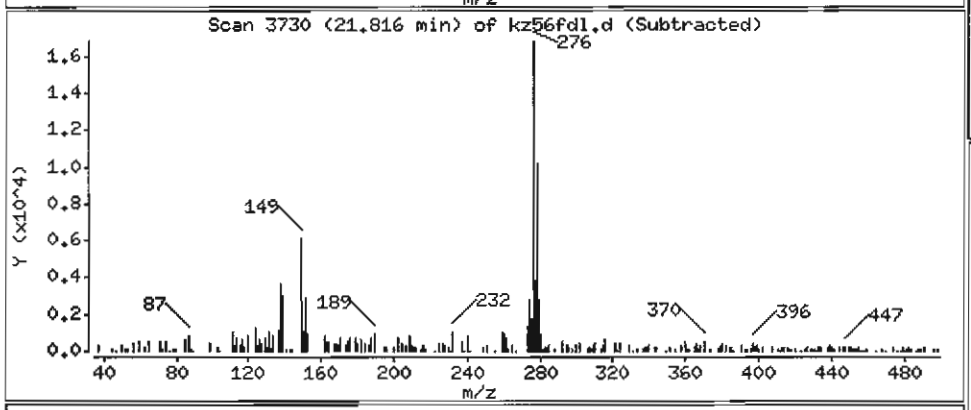
Column phase: ZB-5

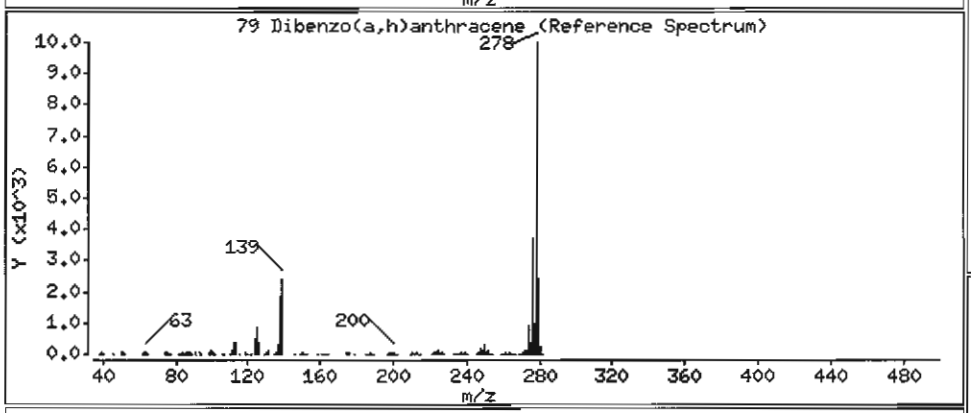
Column diameter: 0.32

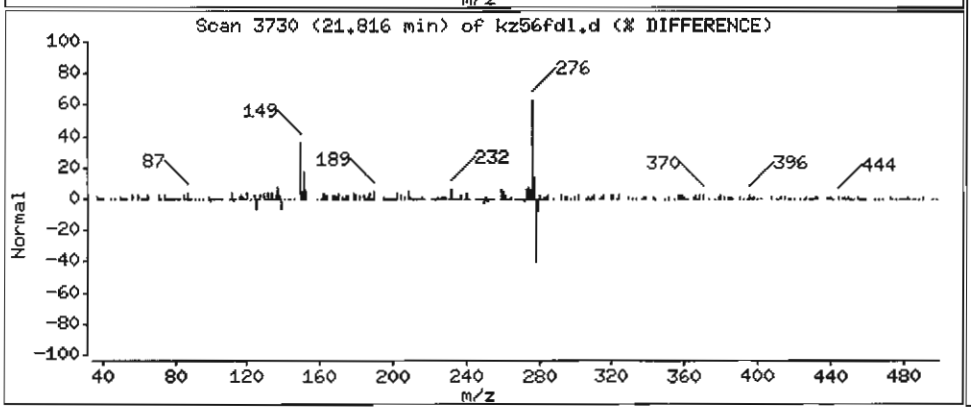
79 Dibenzo(a,h)anthracene

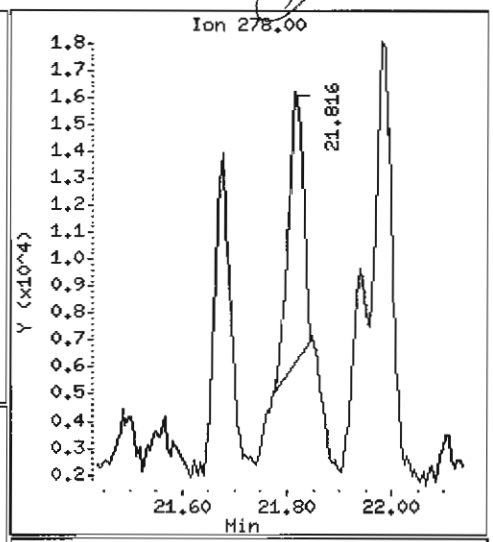
Concentration: 82.26 ug/kg

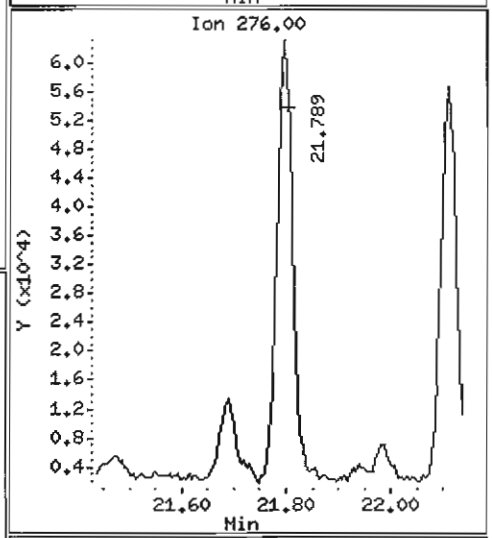


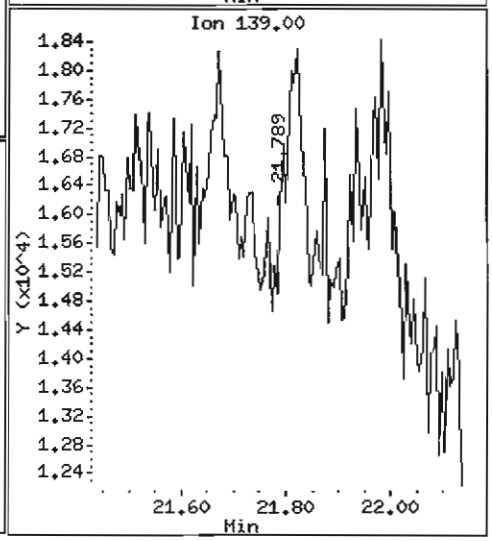












Data File: /chem1/nt6.i/20070529.b/kz56fdl.d

Date : 29-MAY-2007 10:59

Client ID: Y3-RC05-S

Instrument: nt6.i

Sample Info: KZ56F,5

Volume Injected (uL): 1.0

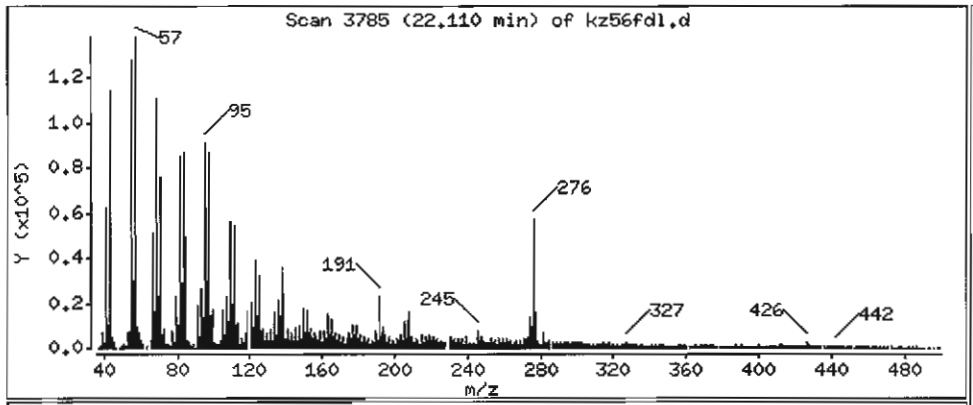
Operator: LJR/VTS

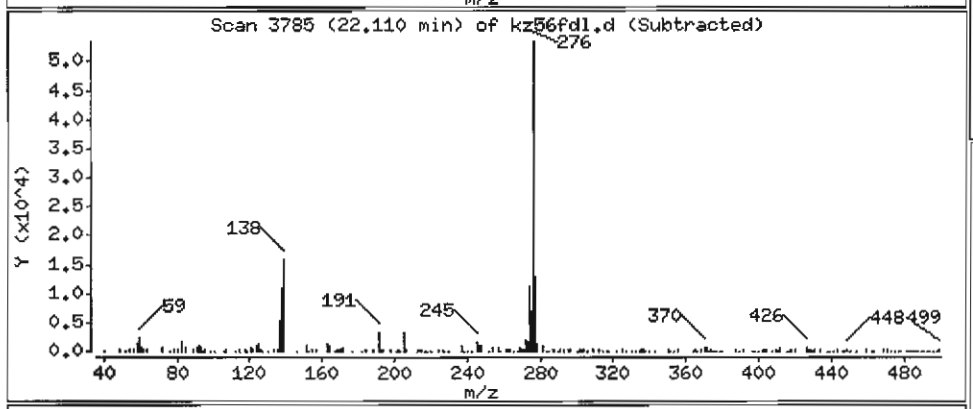
Column phase: ZB-5

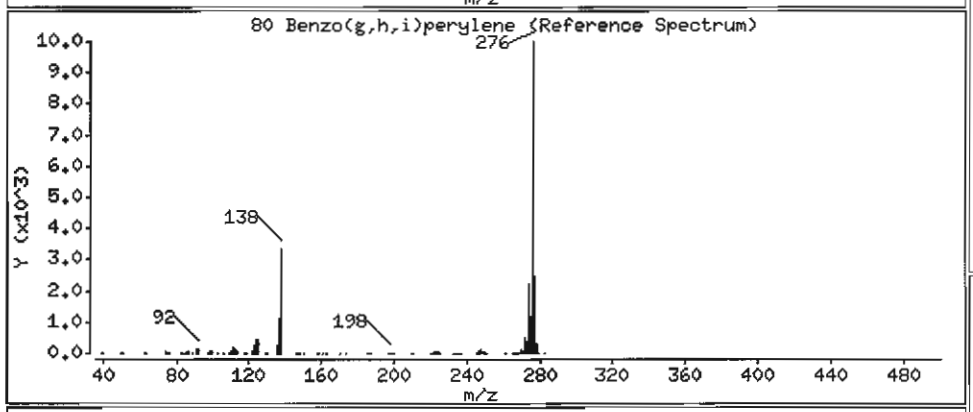
Column diameter: 0.32

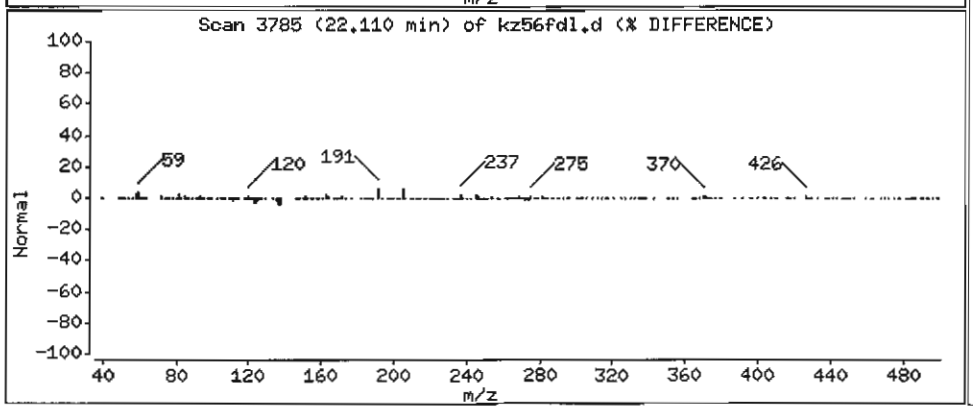
80 Benzo(g,h,i)perylene

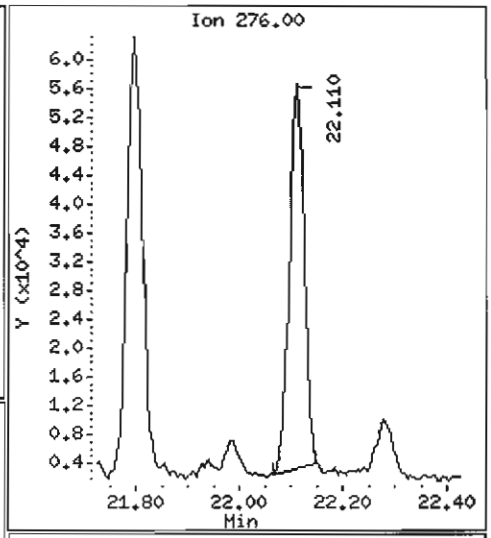
Concentration: 392.2 ug/kg

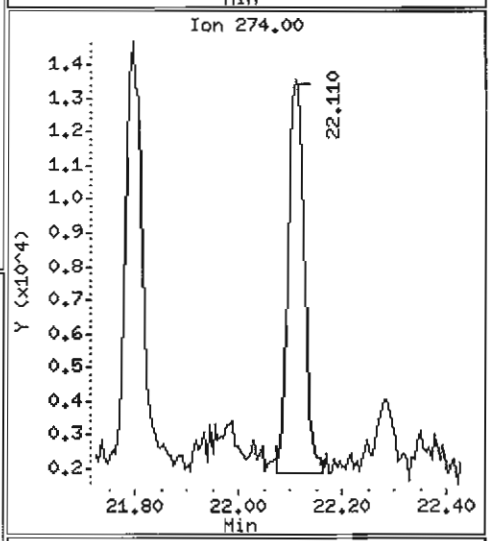


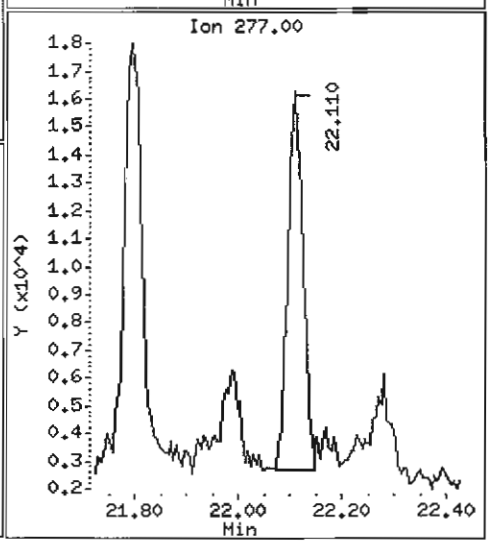












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC07-S
SAMPLE

Lab Sample ID: KZ56G
LIMS ID: 07-9553
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 11:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 31.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 42.9%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	96	130
91-57-6	2-Methylnaphthalene	96	52 J
208-96-8	Acenaphthylene	96	< 96 U
83-32-9	Acenaphthene	96	61 J
132-64-9	Dibenzofuran	96	< 96 U
86-73-7	Fluorene	96	52 J
85-01-8	Phenanthrene	96	690
120-12-7	Anthracene	96	150
206-44-0	Fluoranthene	96	1,600
129-00-0	Pyrene	96	1,500
56-55-3	Benzo(a)anthracene	96	640
117-81-7	bis(2-Ethylhexyl)phthalate	96	3,700
218-01-9	Chrysene	96	960
205-99-2	Benzo(b)fluoranthene	96	980
207-08-9	Benzo(k)fluoranthene	96	990
50-32-8	Benzo(a)pyrene	96	770
193-39-5	Indeno(1,2,3-cd)pyrene	96	380
53-70-3	Dibenz(a,h)anthracene	96	77 J
191-24-2	Benzo(g,h,i)perylene	96	400

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.8%	2-Fluorobiphenyl	64.6%
d14-p-Terphenyl	61.7%	d4-1,2-Dichlorobenzene	57.8%
d5-Phenol	62.2%	2-Fluorophenol	52.7%
2,4,6-Tribromophenol	66.2%	d4-2-Chlorophenol	60.9%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56g2.d
Lab Smp Id: KZ56G — Client Smp ID: Y3-RC07-S
Inj Date : 29-MAY-2007 11:32
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56G,3
Misc Info : 07-9553
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 12
Dil Factor: 3.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	55.00000	Weight of sample extracted (g)
M	42.90000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.917	4.903	(0.722)	132529	6.58688	629.2
$ 2 Phenol-d5	99	6.455	6.447	(0.948)	183695	7.78117	743.3
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.519	6.521	(0.958)	124193	7.60826	726.8
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.808	6.805	(1.000)	221303	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.096	7.093	(1.042)	48153	4.82411	460.8
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.721	7.729	(0.875)	102483	5.48259	523.7
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.822	8.819	(1.000)	785564	20.0000	
	28 Naphthalene	128	8.848	8.851	(1.003)	61815	1.32848	126.9
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	9.965	9.967	(1.130)	13023	0.55059 LOL	52.60
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.622	10.619	(0.911)	144209	5.38357	514.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.658	11.655	(1.000)	396898	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.701	11.703	(1.004)	15964	0.63739 LOL	60.89(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.513	12.515	(1.073)	14654	0.55080 LOL	52.62(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.940	12.937	(1.110)	33437	8.27496	790.5
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.009	14.001	(1.000)	522706	20.0000	
	60 Phenanthrene	178	14.041	14.038	(1.002)	252000	7.22402	690.1
	61 Anthracene	178	14.110	14.107	(1.007)	56455	1.56629	149.6
	62 Carbazole	167	14.415	14.412	(1.029)	47279	1.52436	145.6(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.179	15.165	(1.083)	24132	0.63089 LOL	60.27(M)
64 Fluoranthene	202	15.980	15.956	(1.141)	570726	17.2442	1647
65 Pyrene	202	16.317	16.303	(0.892)	566908	15.8003	1509
$ 66 Terphenyl-d14	244	16.659	16.650	(0.910)	116679	5.13527	490.6
67 Butylbenzylphthalate	149	17.567	17.558	(0.960)	38205	2.26469	216.3(M)
68 Benzo(a)anthracene	228	18.272	18.253	(0.999)	216881	6.71439	641.4
* 69 Chrysene-d12	240	18.299	18.280	(1.000)	432415	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.336	18.322	(1.002)	327597	10.0258	957.7
72 bis(2-Ethylhexyl)phthalate	149	18.592	18.573	(0.952)	870818	38.8468	3711(M)
* 134 Di-n-octylphthalate-d4	153	19.522	19.503	(1.000)	654477	20.0000	
73 Di-n-octylphthalate	149	19.543	19.514	(1.001)	82274	2.11607	202.1(M)
74 Benzo(b)fluoranthene	252	19.928	19.898	(0.974)	301701	10.2779	981.8
75 Benzo(k)fluoranthene	252	19.949	19.930	(0.975)	293680	10.4145	994.9(M)
76 Benzo(a)pyrene	252	20.366	20.336	(0.996)	235721	8.02275	766.4
* 77 Perylene-d12	264	20.451	20.416	(1.000)	452737	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.808	21.768	(1.066)	136687	3.93492	375.9(M)
79 Dibenzo(a,h)anthracene	278	21.824	21.789	(1.067)	23390	0.81299 LOL	77.66(M)
80 Benzo(g,h,i)perylene	276	22.118	22.078	(1.081)	131867	4.14393	395.9(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.370	6.377	(0.936)	30992	0.93632 Y	89.44(M)
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56g2.d
Lab Smp Id: KZ56G
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9553

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC07-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	221303	1.66
27 Naphthalene-d8	775413	387706	1550826	785564	1.31
42 Acenaphthene-d10	371068	185534	742136	396898	6.96
59 Phenanthrene-d10	554165	277082	1108330	522706	-5.68
69 Chrysene-d12	436021	218010	872042	432415	-0.83
134 Di-n-octylphthala	773344	386672	1546688	654477	-15.37
77 Perylene-d12	622369	311184	1244738	452737	-27.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.05
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.03
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.03
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.06
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.10
134 Di-n-octylphthala	19.50	19.00	20.00	19.52	0.10
77 Perylene-d12	20.42	19.92	20.92	20.45	0.17

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56G
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9553

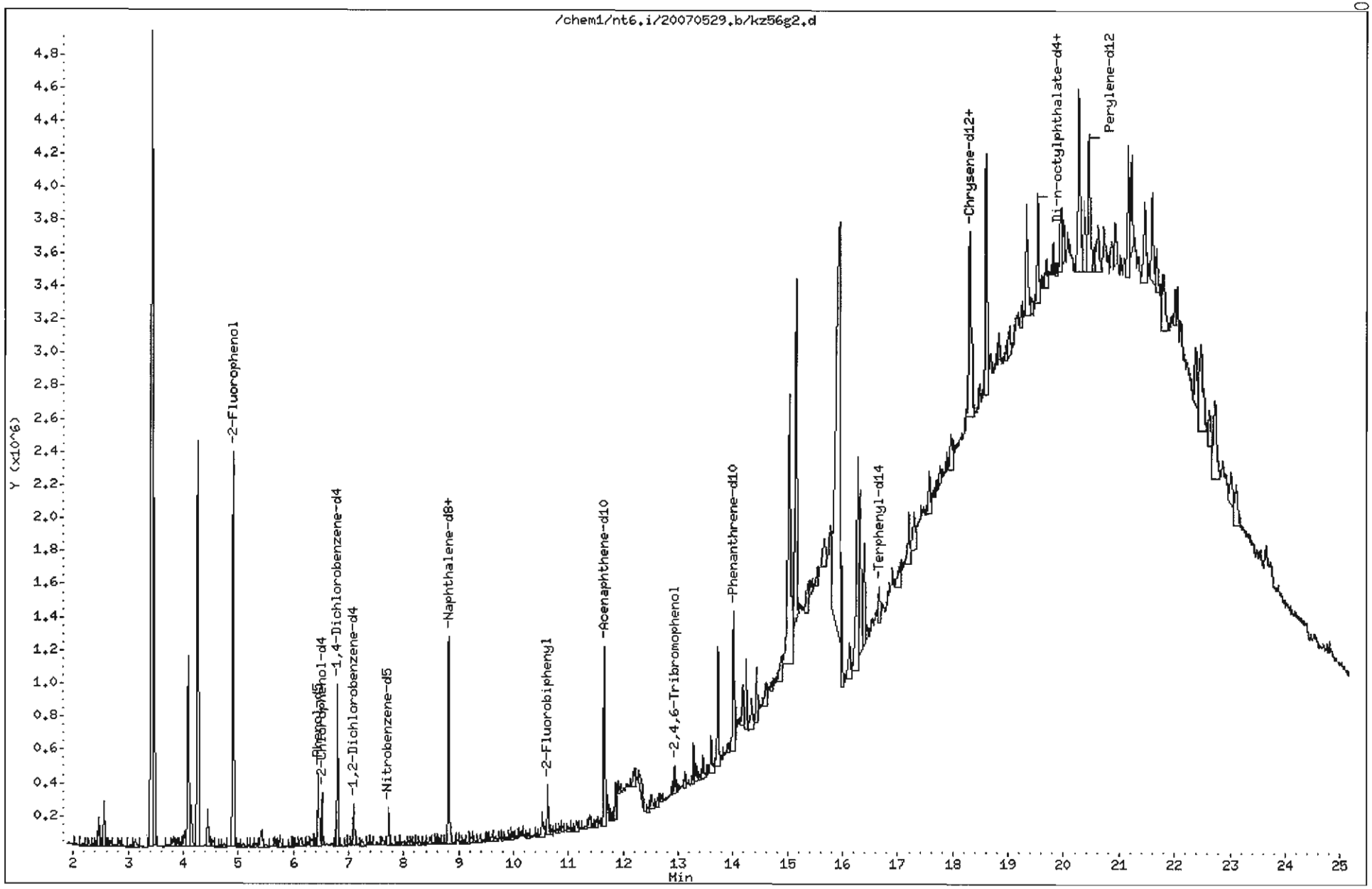
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC07-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1194	629.2	52.70	11-84
$ 2 Phenol-d5	1194	743.3	62.25	25-86
$ 5 2-Chlorophenol-d4	1194	726.8	60.87	23-91
$ 10 1,2-Dichlorobenzen	796.1	460.8	57.89	24-90
$ 18 Nitrobenzene-d5	796.1	523.7	65.79	26-88
$ 36 2-Fluorobiphenyl	796.1	514.3	64.60	34-91
$ 55 2,4,6-Tribromophen	1194	790.5	66.20	25-107
$ 66 Terphenyl-d14	796.1	490.6	61.62	22-100

Data File: /chem1/nt6.i/20070529.b/kz56g2.d
Date : 29-MAY-2007 11:32
Client ID: Y3-RC07-S
Sample Info: KZ56G,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

0397



Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

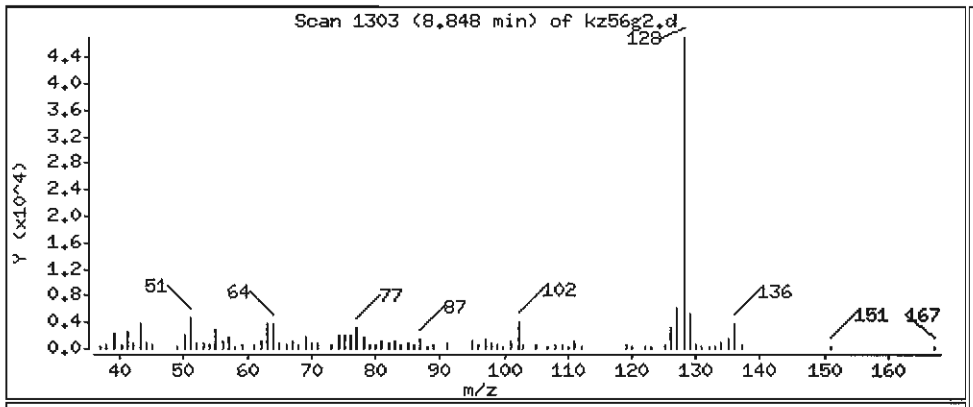
Operator: LJR/VTS

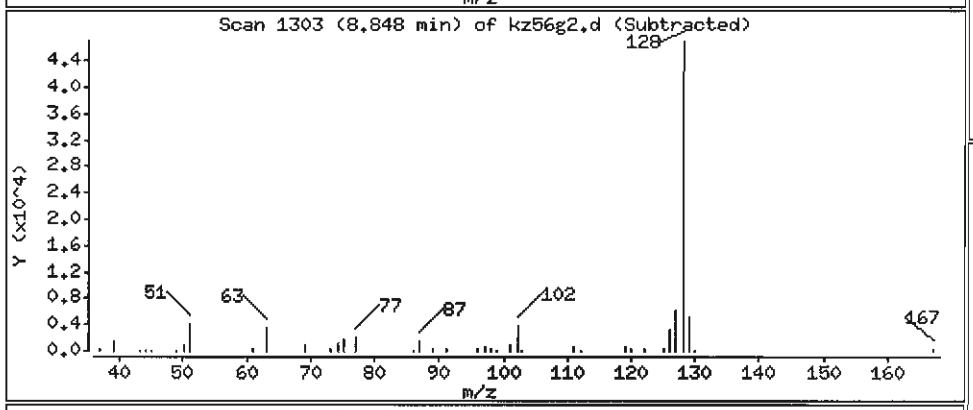
Column phase: ZB-5

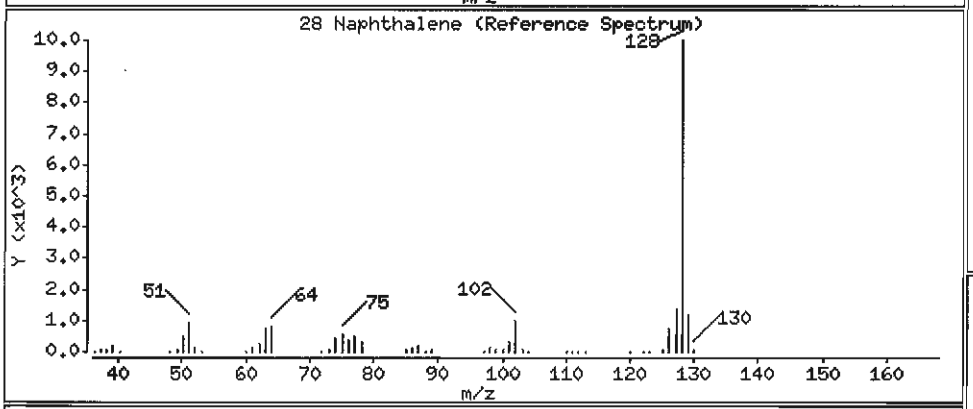
Column diameter: 0.32

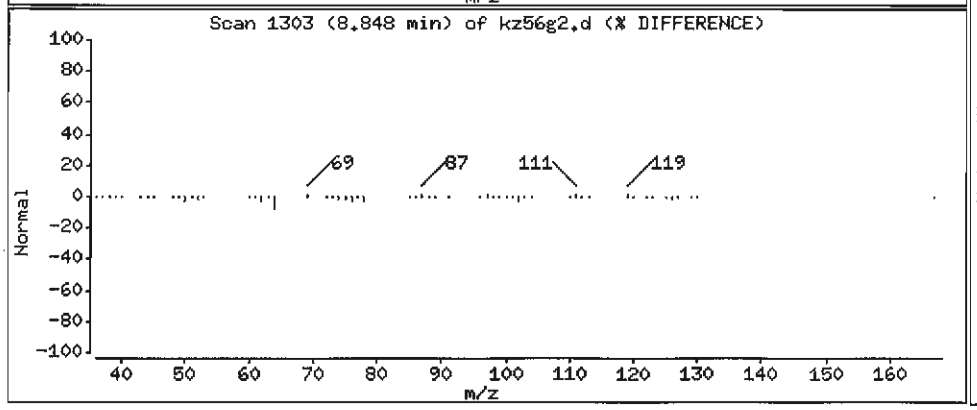
28 Naphthalene

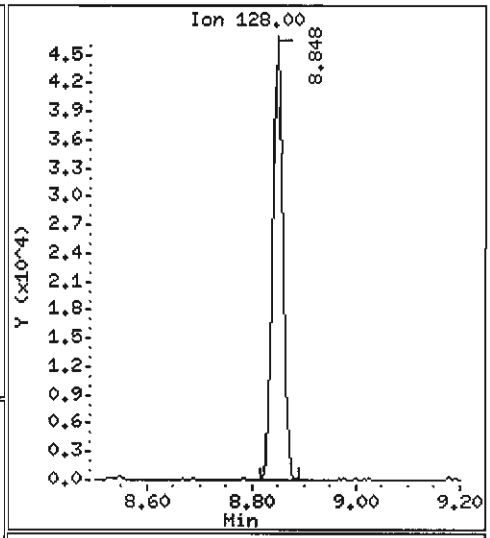
Concentration: 126.9 ug/kg

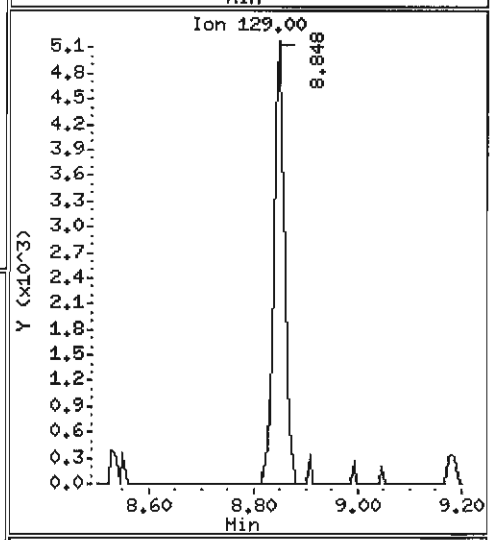


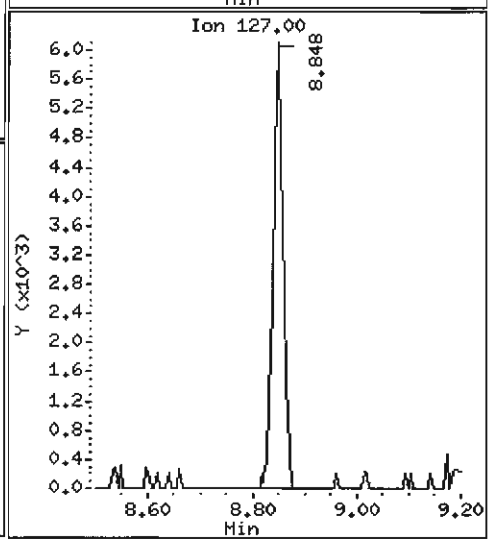












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

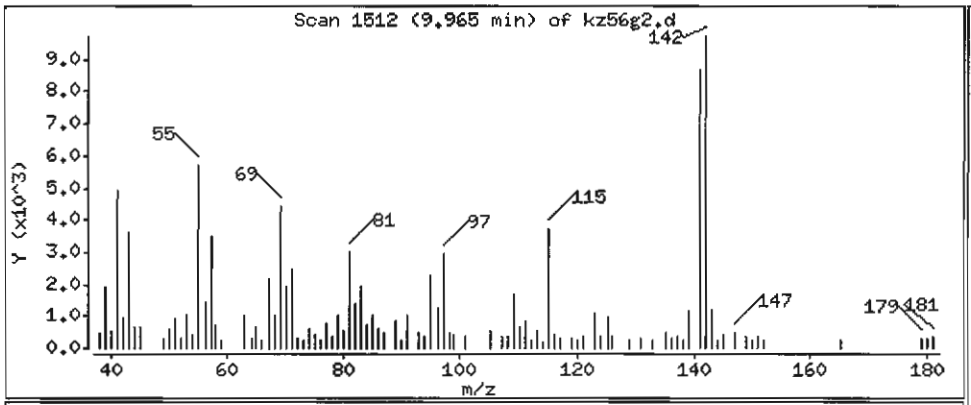
Operator: LJR/VTS

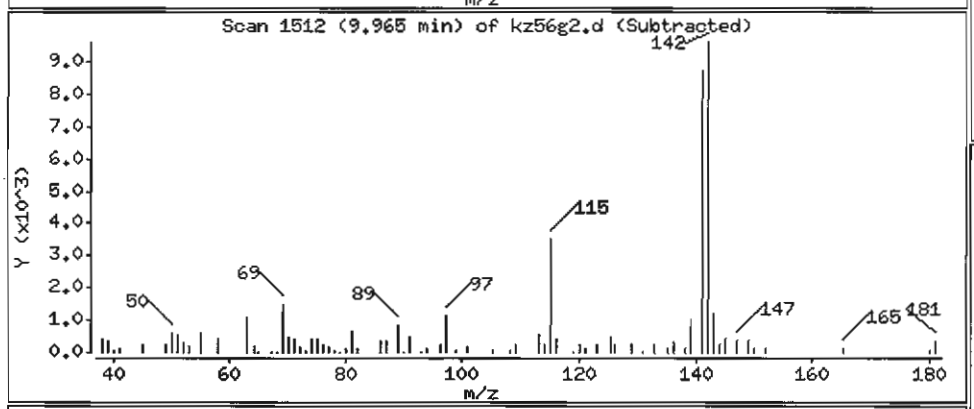
Column phase: ZB-5

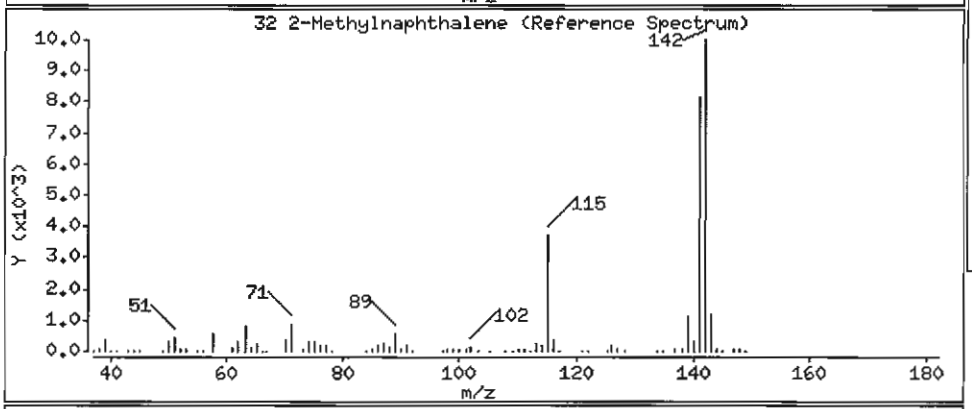
Column diameter: 0.32

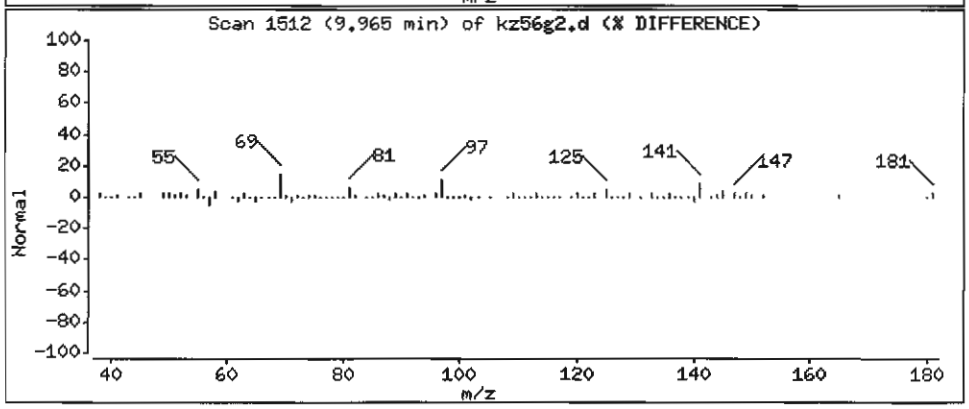
32 2-Methylnaphthalene

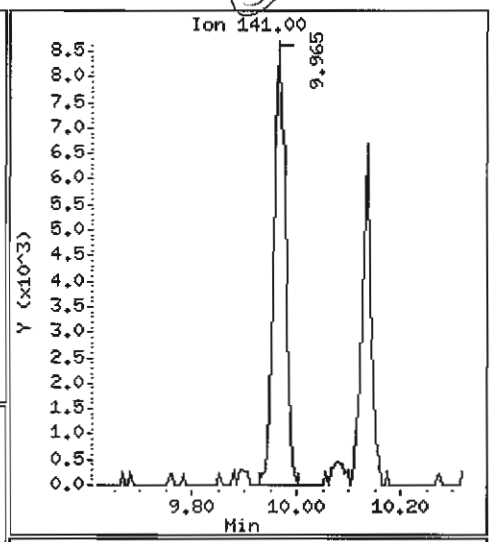
Concentration: 52.60 ug/kg

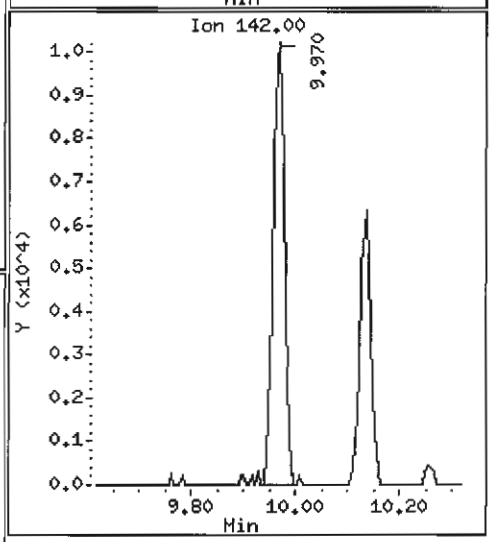












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

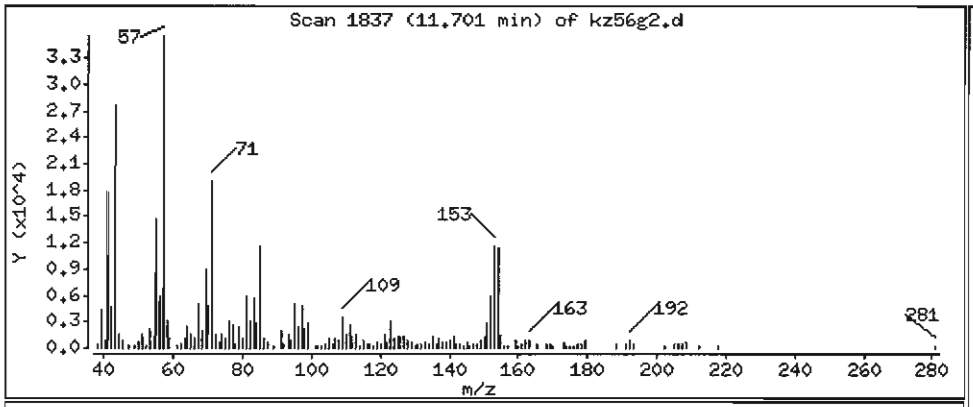
Operator: LJR/VTS

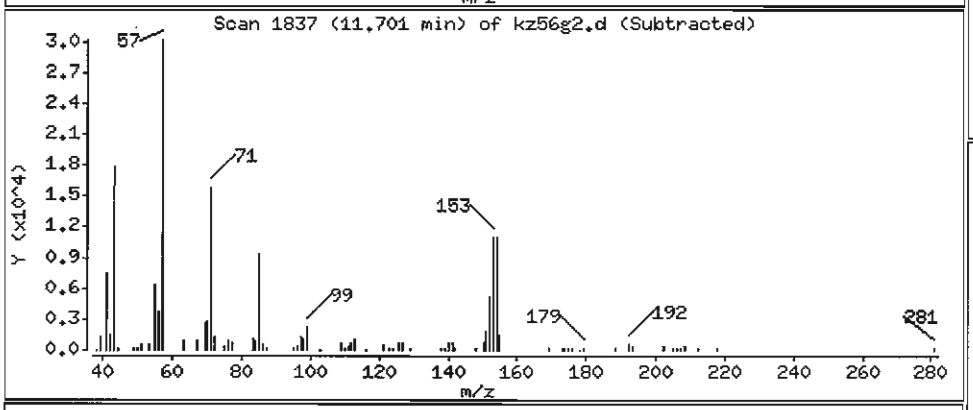
Column phase: ZB-5

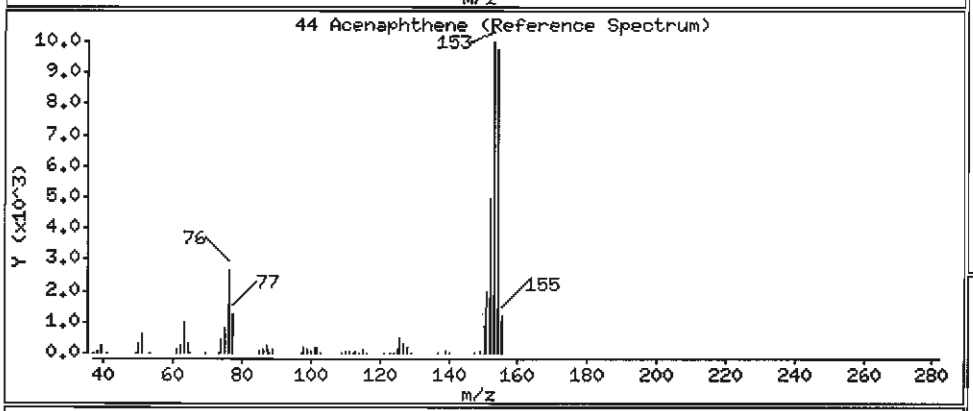
Column diameter: 0.32

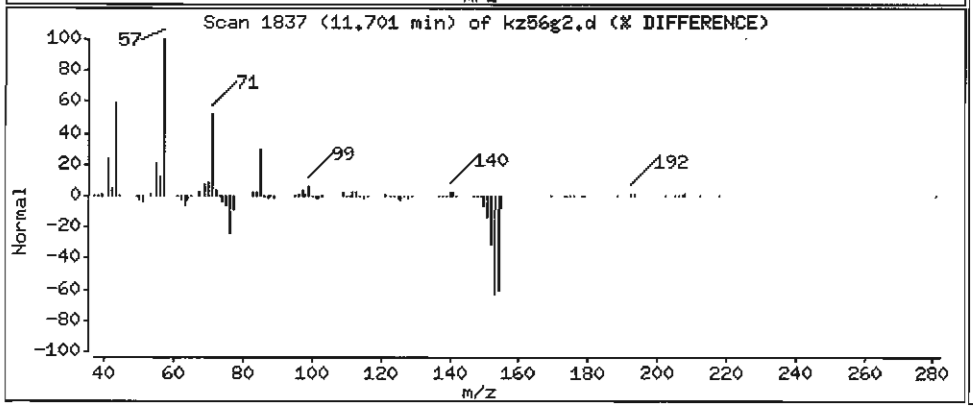
44 Acenaphthene

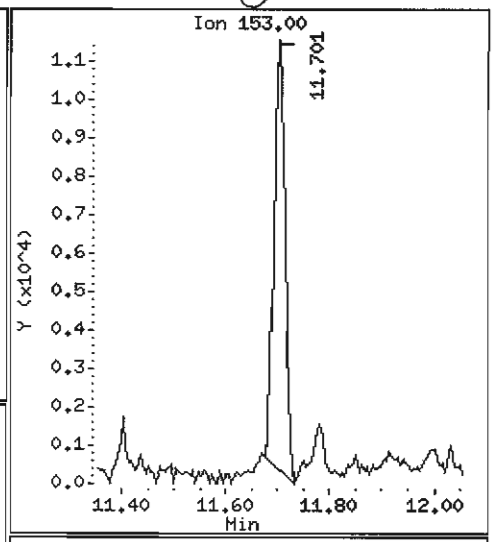
Concentration: 60.89 ug/kg

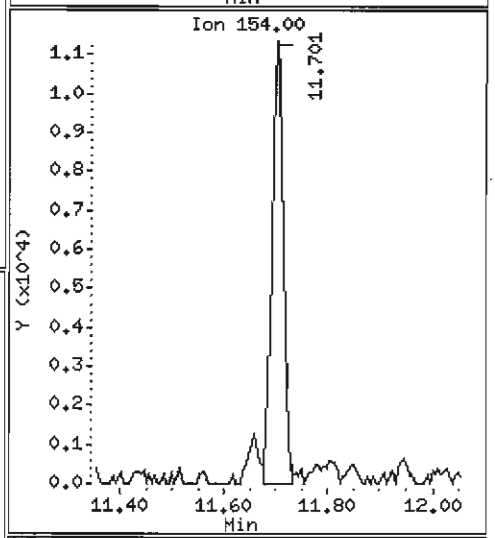


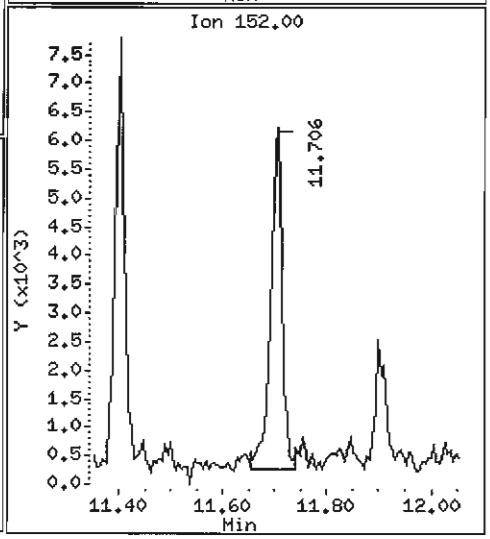












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

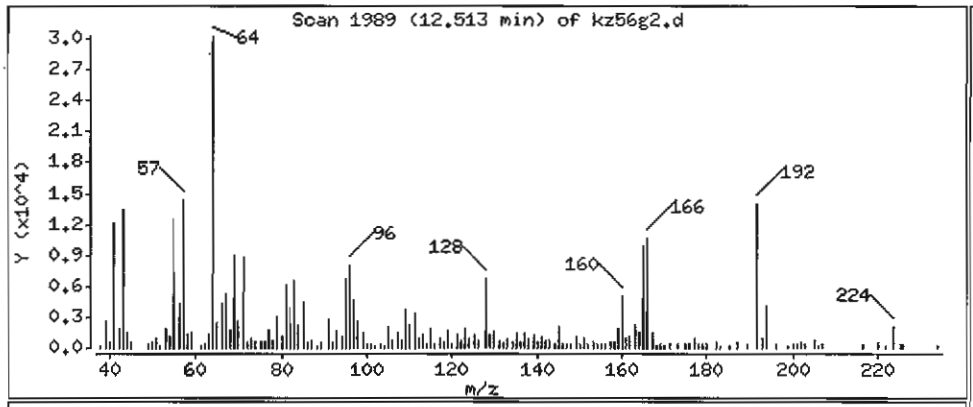
Operator: LJR/VTS

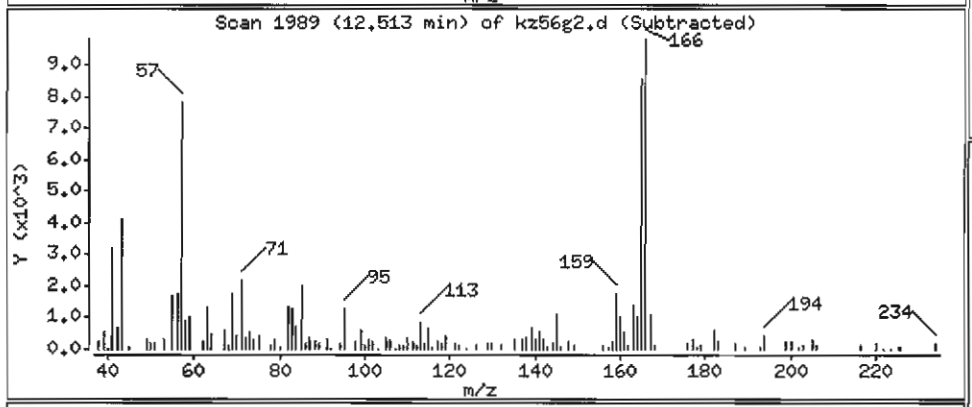
Column phase: ZB-5

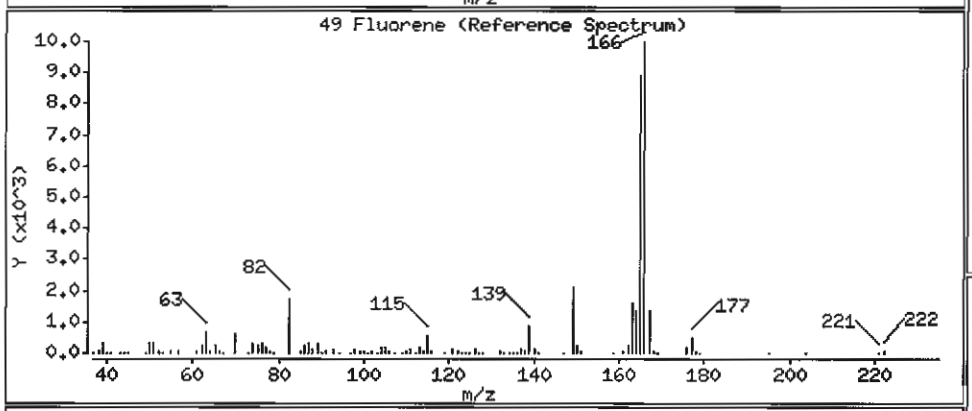
Column diameter: 0.32

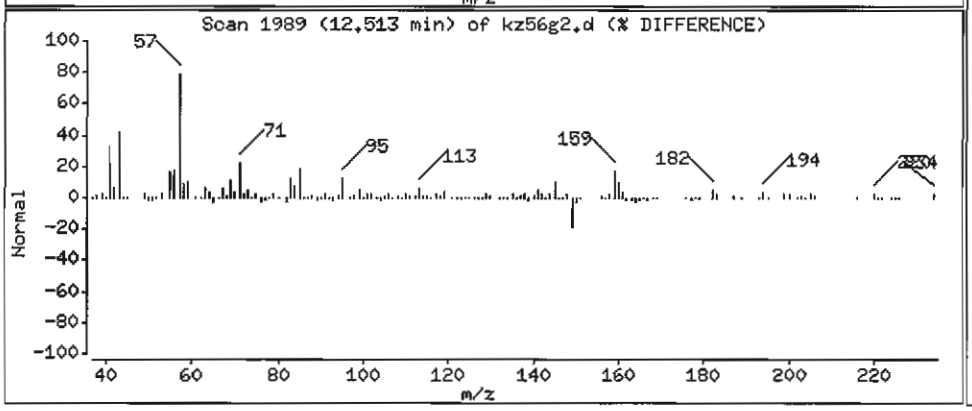
49 Fluorene

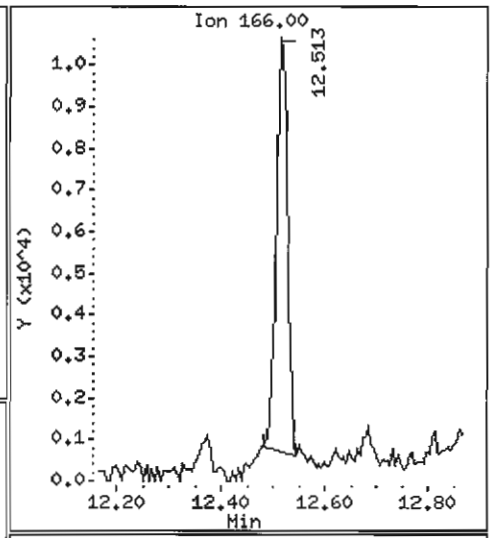
Concentration: 52.62 ug/kg

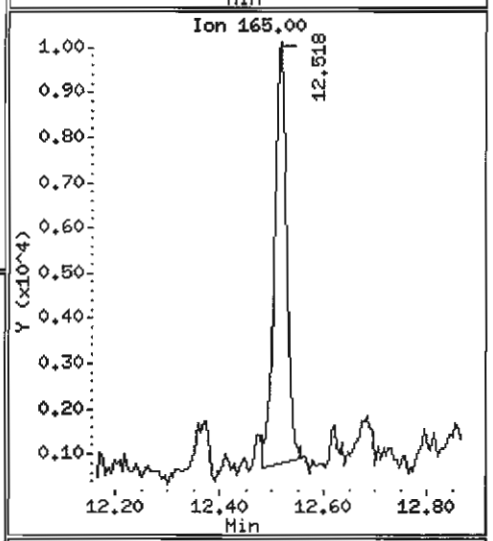


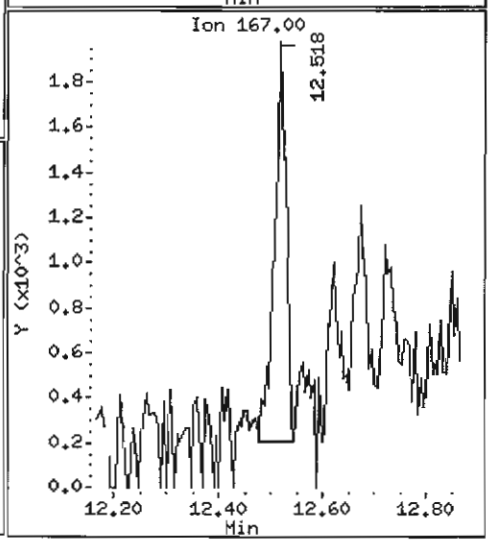












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

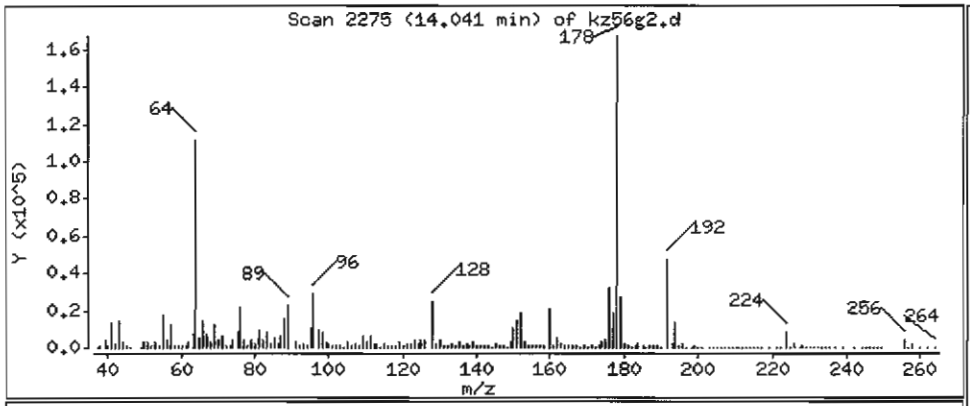
Operator: LJR/VTS

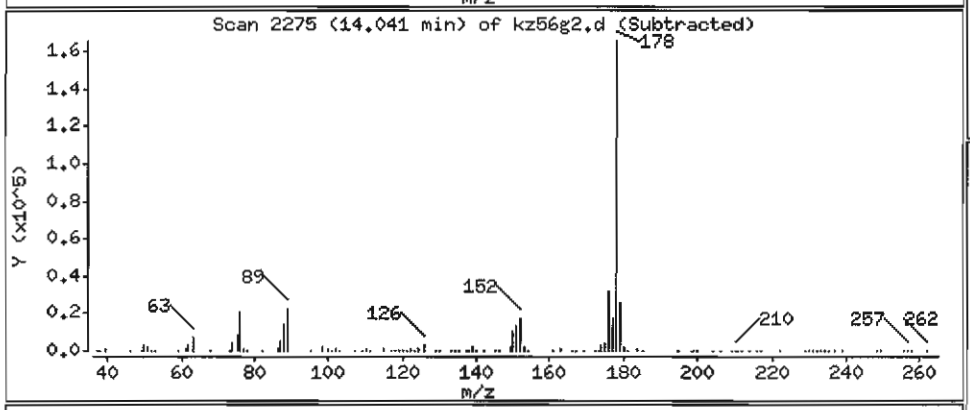
Column phase: ZB-5

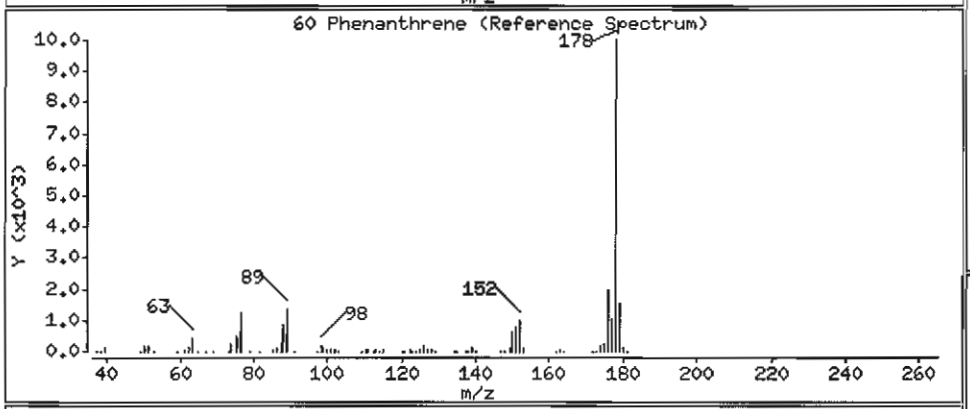
Column diameter: 0.32

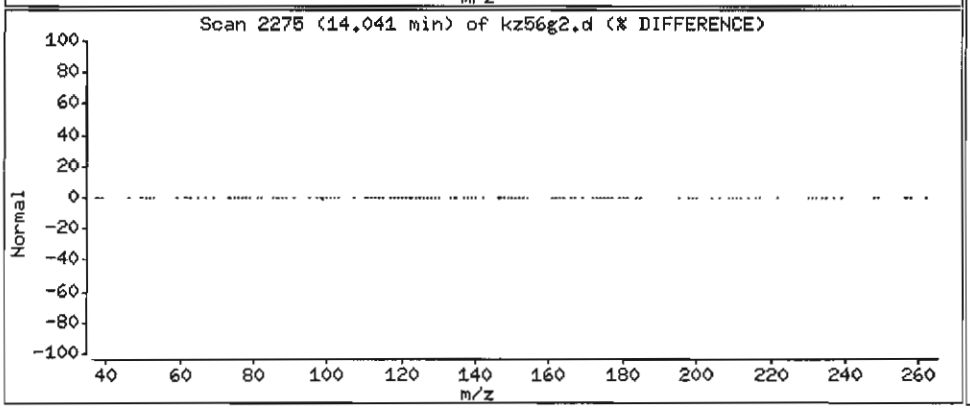
60 Phenanthrene

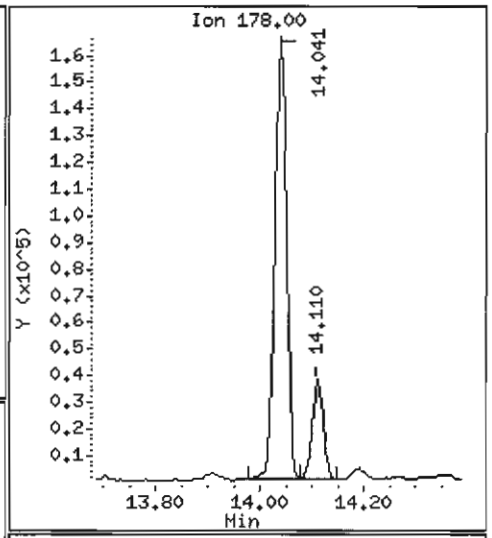
Concentration: 690.1 ug/kg

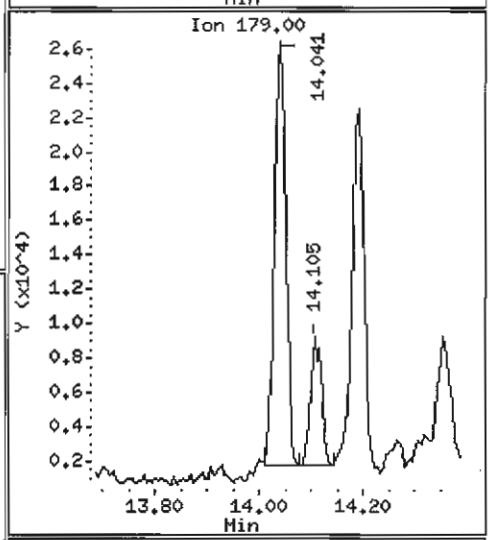


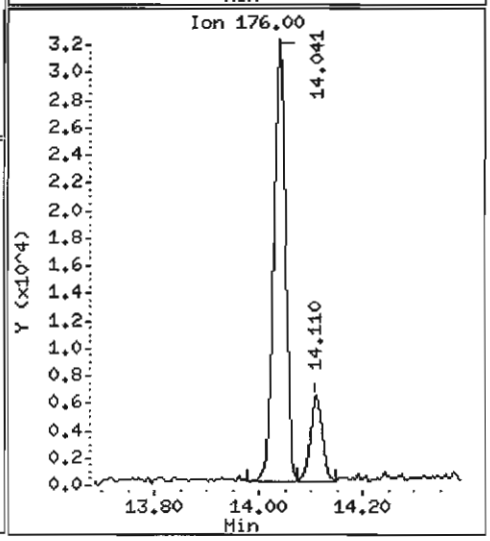












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

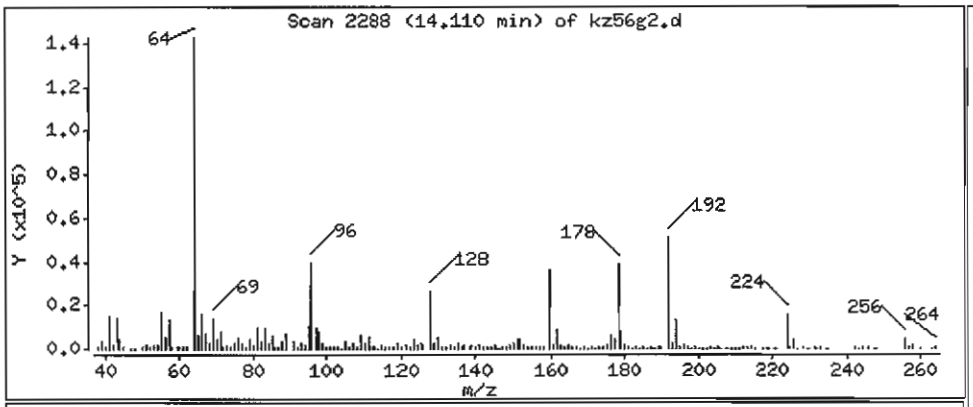
Operator: LJR/VTS

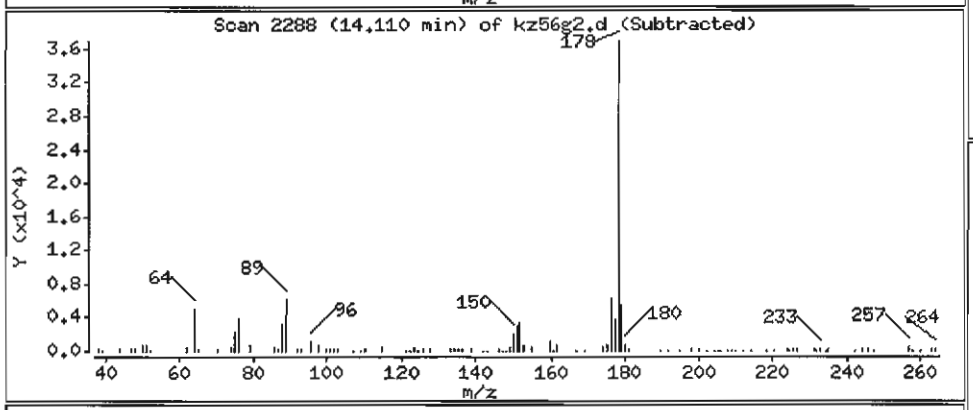
Column phase: ZB-5

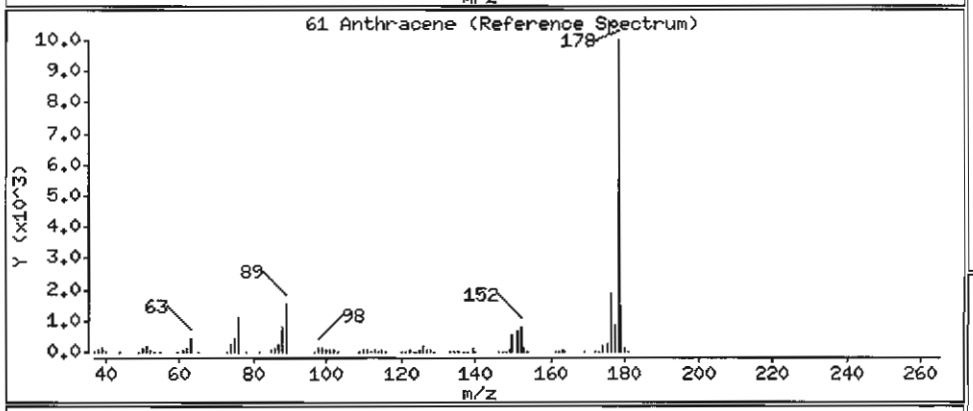
Column diameter: 0.32

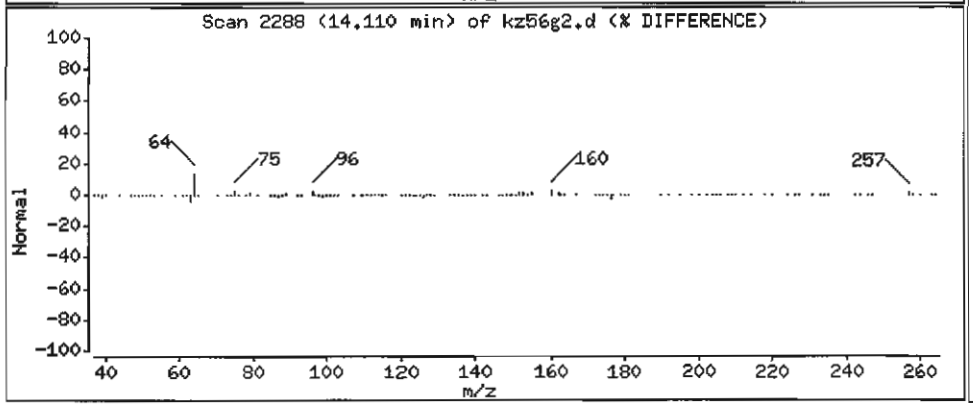
61 Anthracene

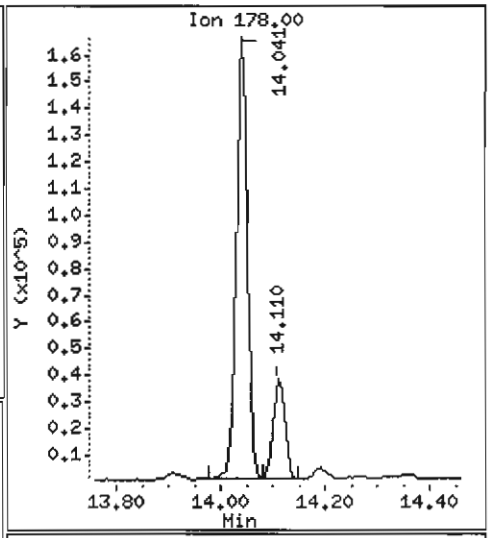
Concentration: 149.6 ug/kg

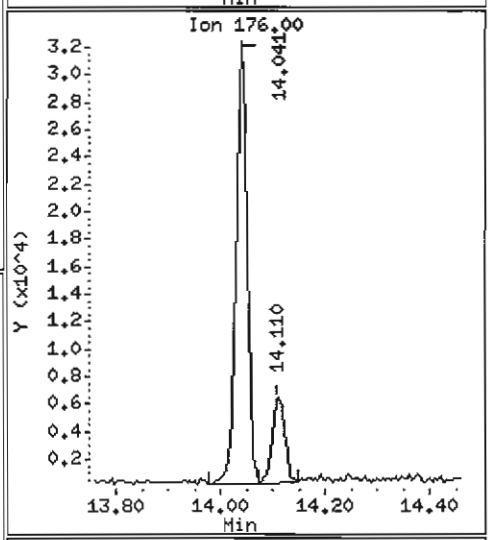


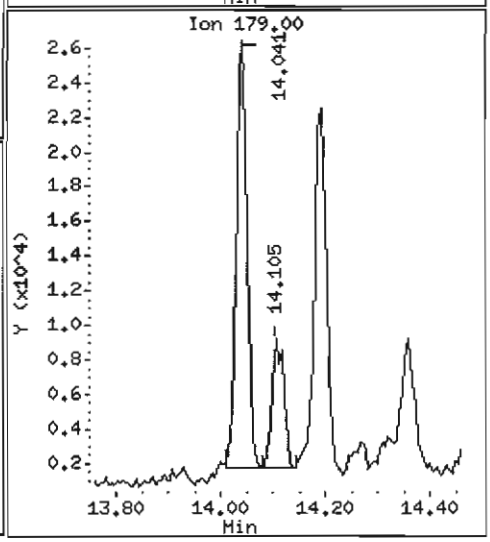












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

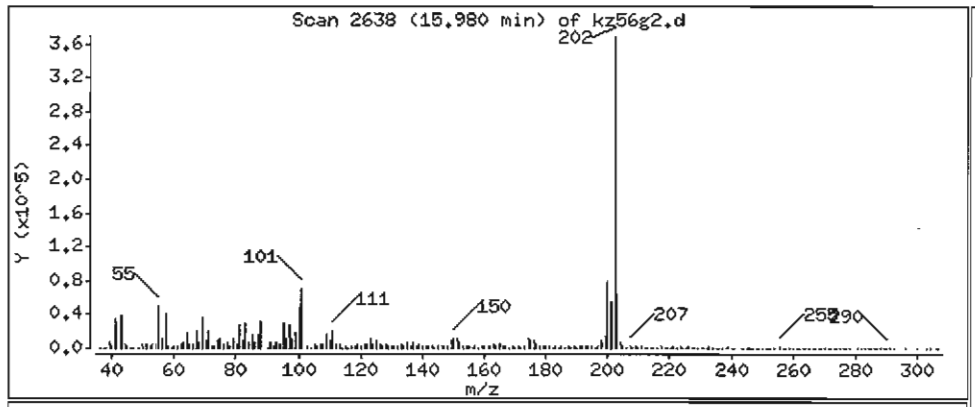
Operator: LJR/VTS

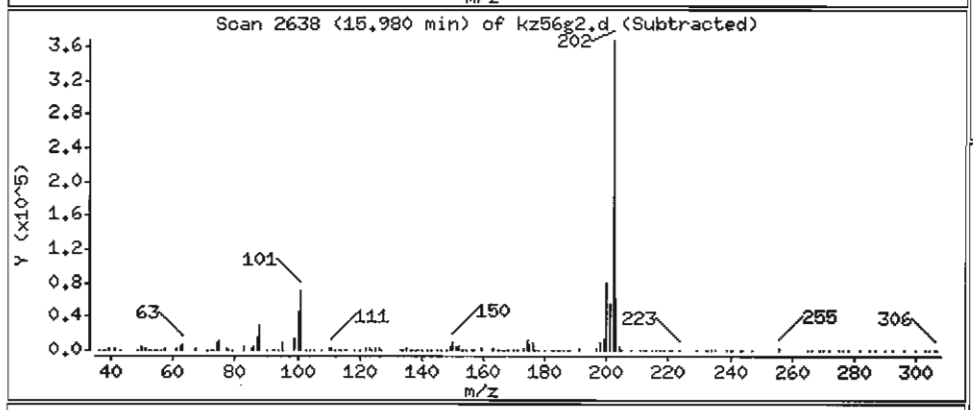
Column phase: ZB-5

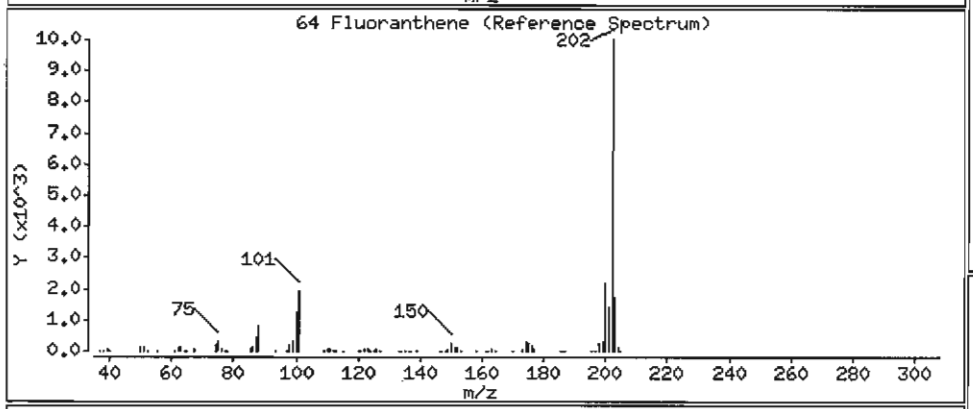
Column diameter: 0.32

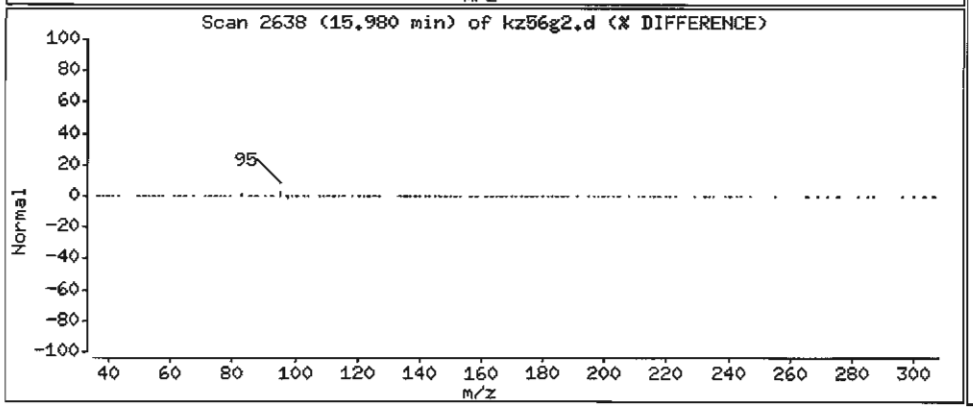
64 Fluoranthene

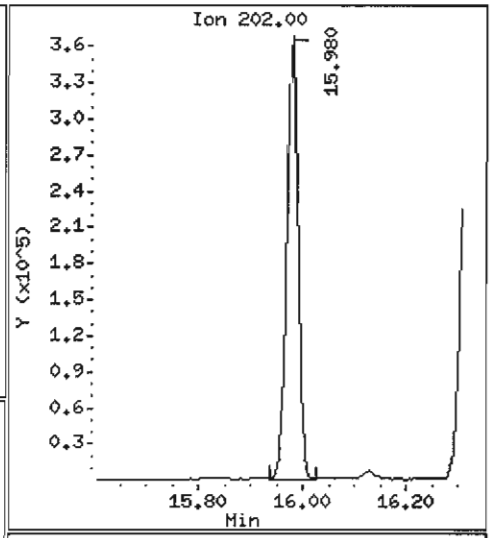
Concentration: 1647 ug/kg

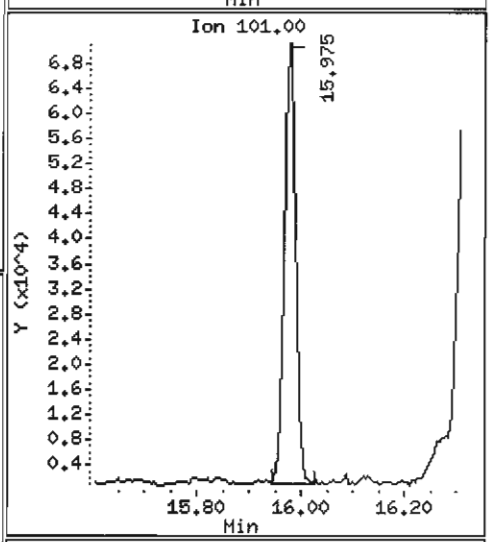


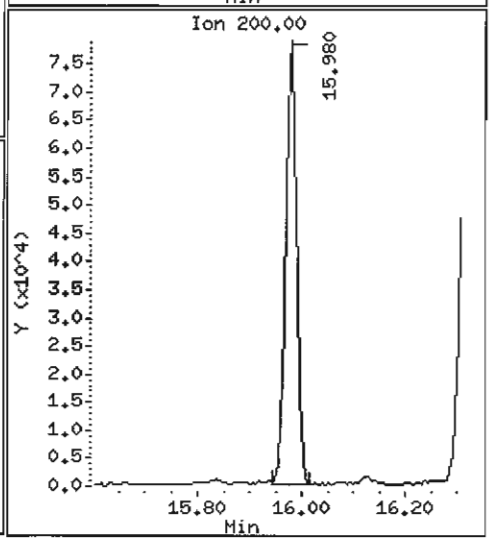












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

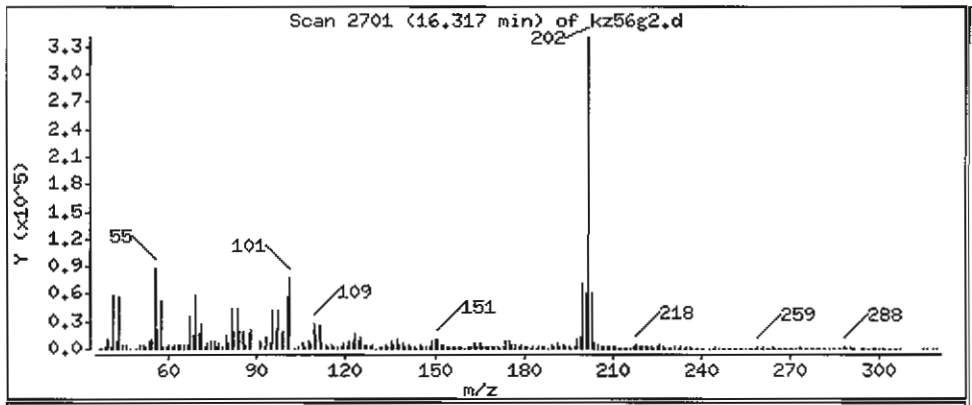
Operator: LJR/VTS

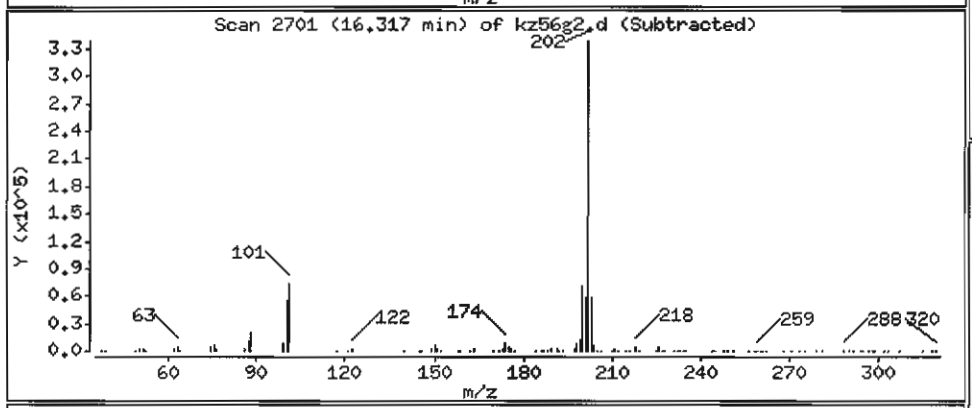
Column phase: ZB-5

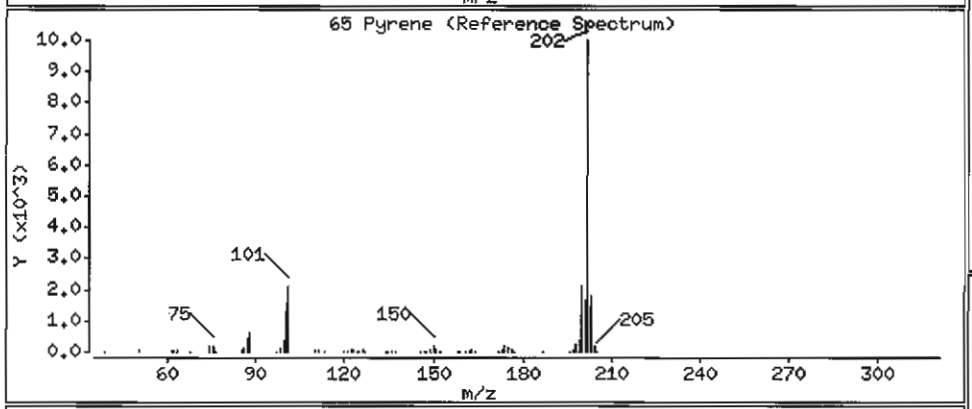
Column diameter: 0.32

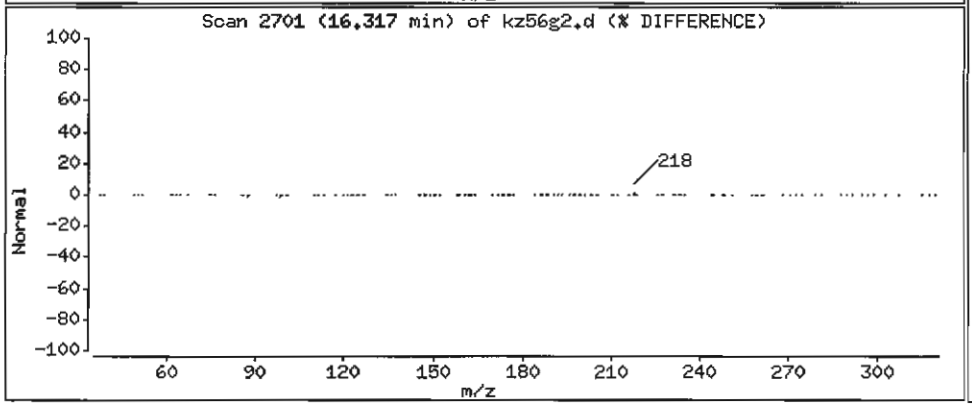
65 Pyrene

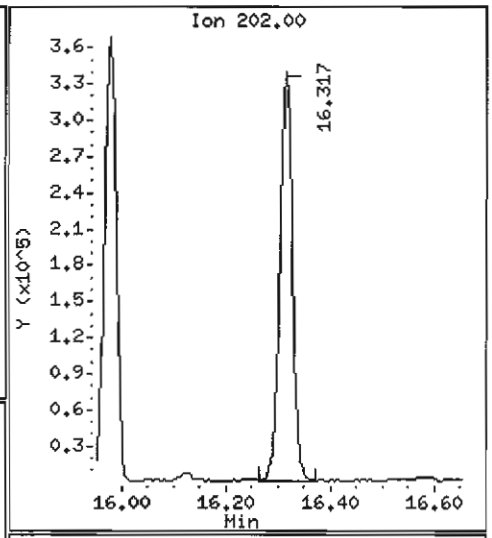
Concentration: 1509 ug/kg

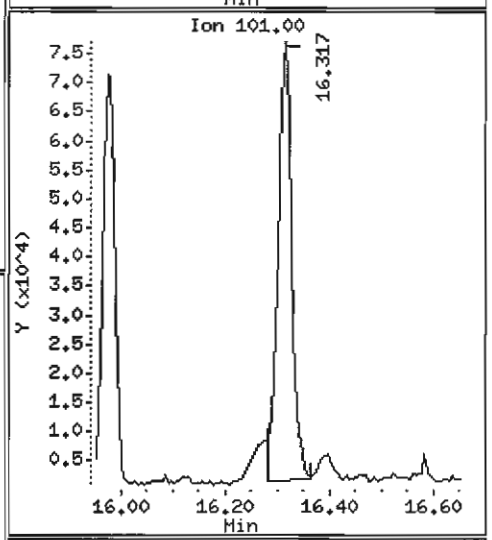


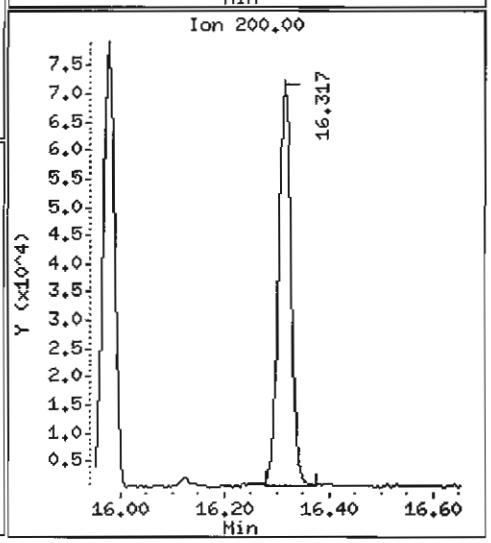












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

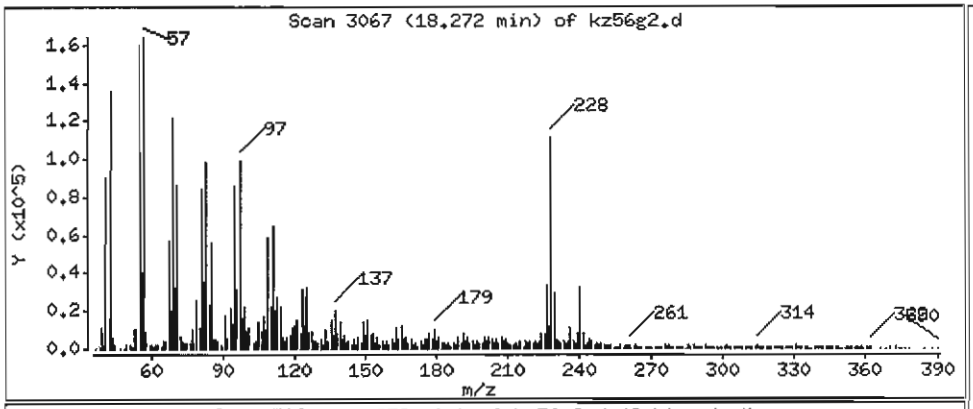
Operator: LJR/VTS

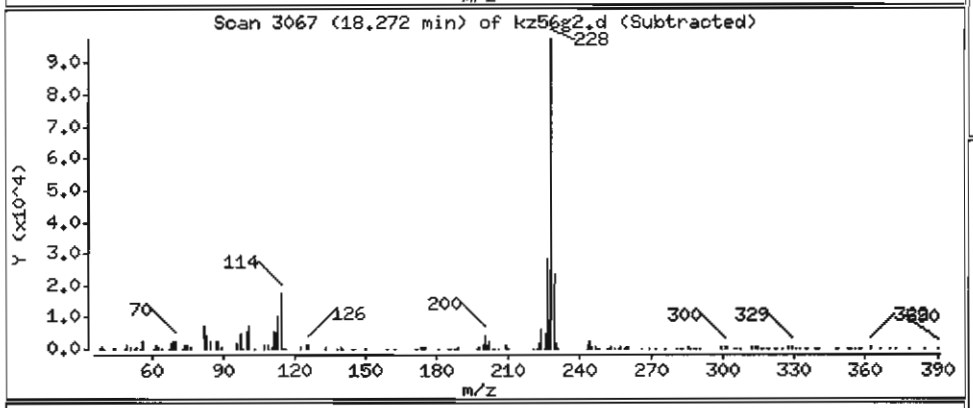
Column phase: ZB-5

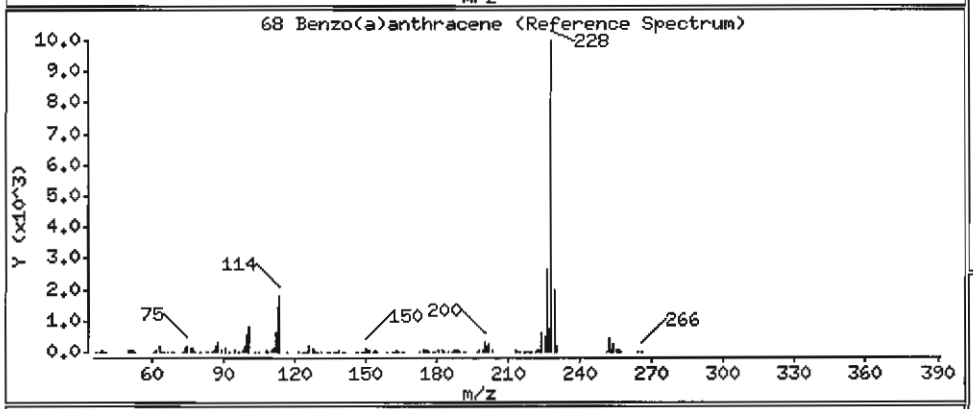
Column diameter: 0.32

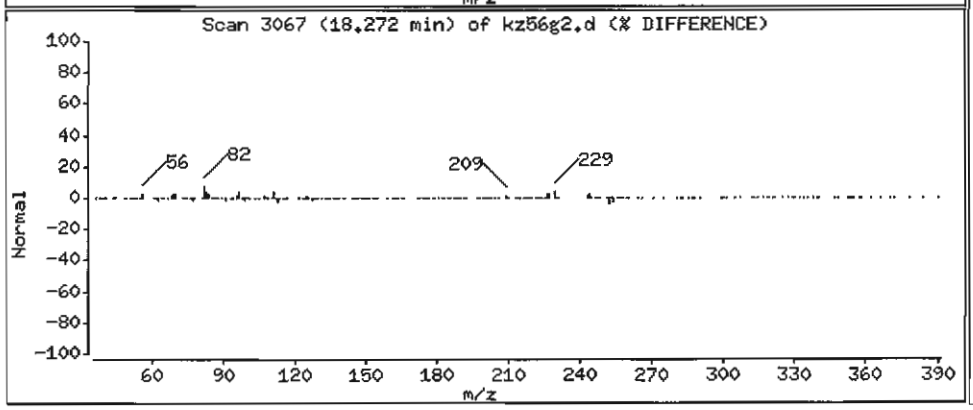
68 Benzo(a)anthracene

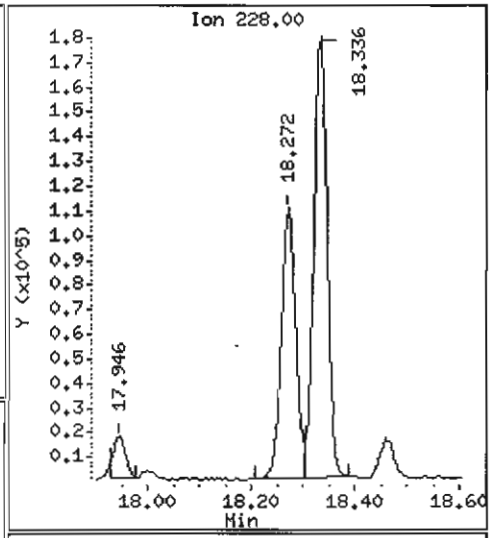
Concentration: 641.4 ug/kg

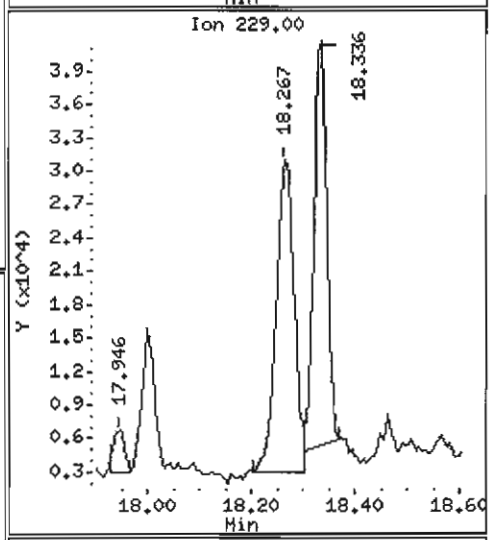


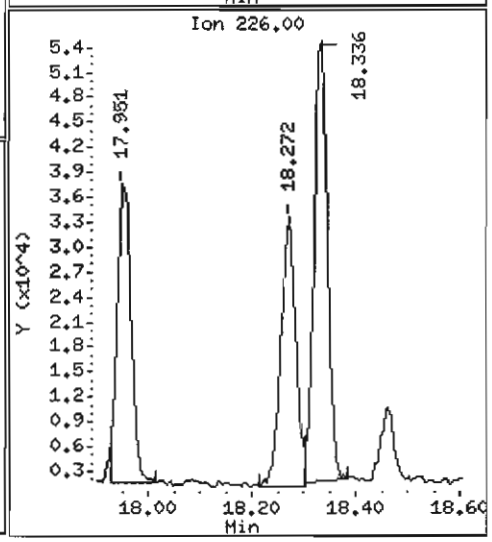












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

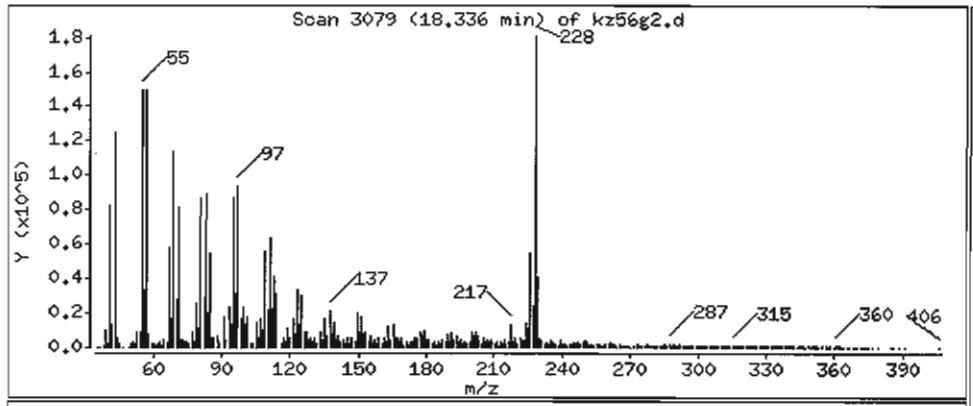
Operator: LJR/VTS

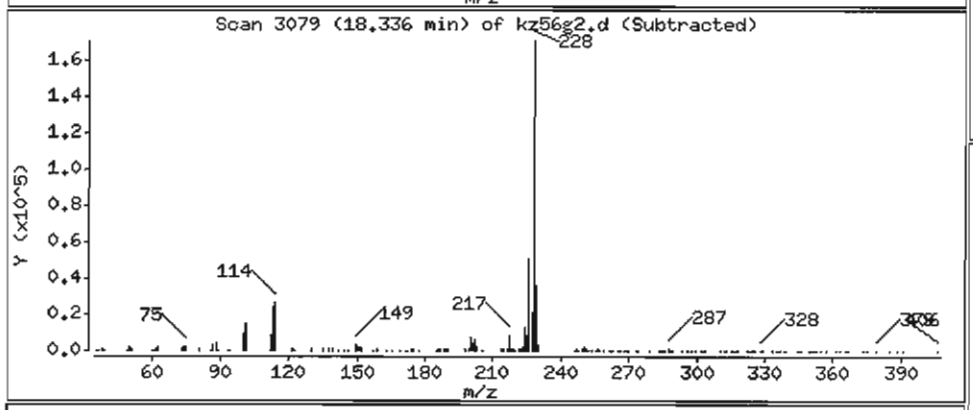
Column phase: ZB-5

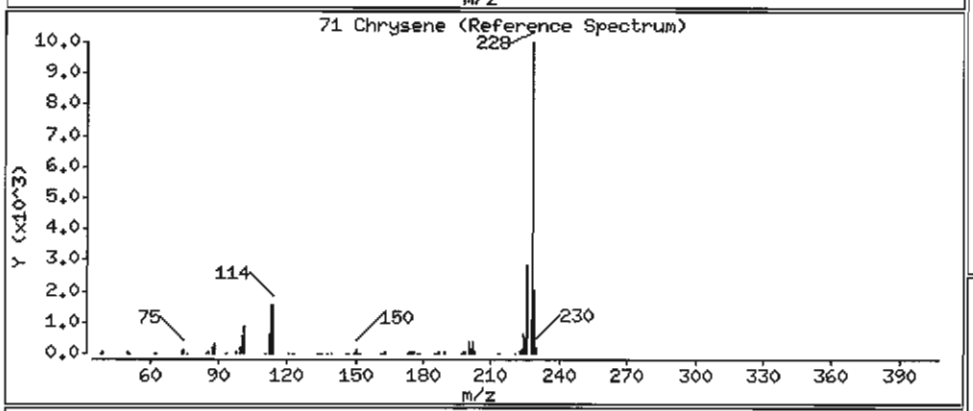
Column diameter: 0.32

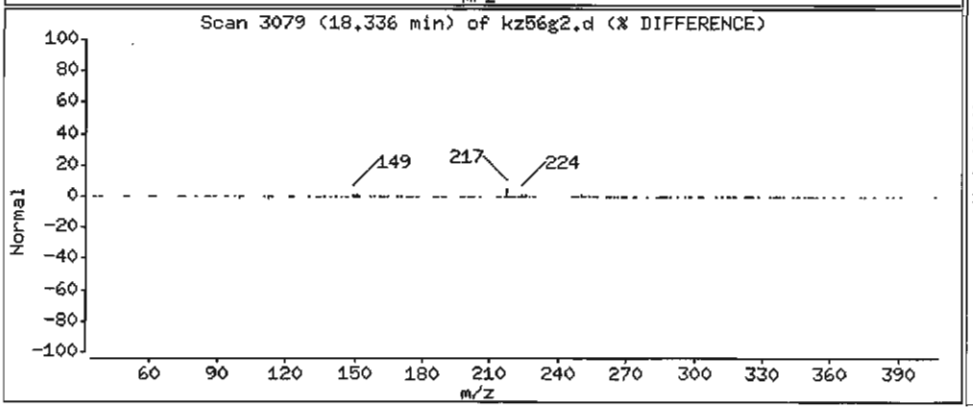
71 Chrysene

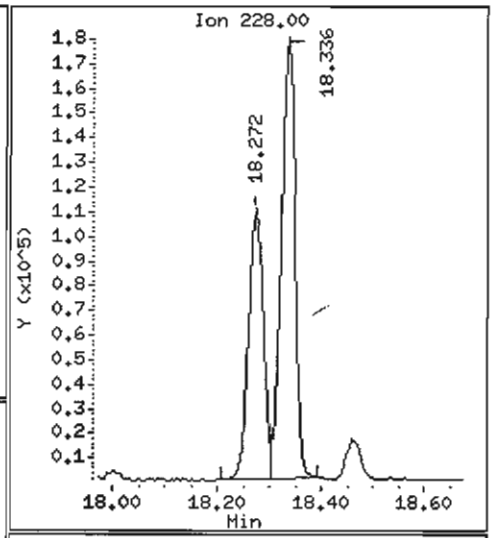
Concentration: 957.7 ug/kg

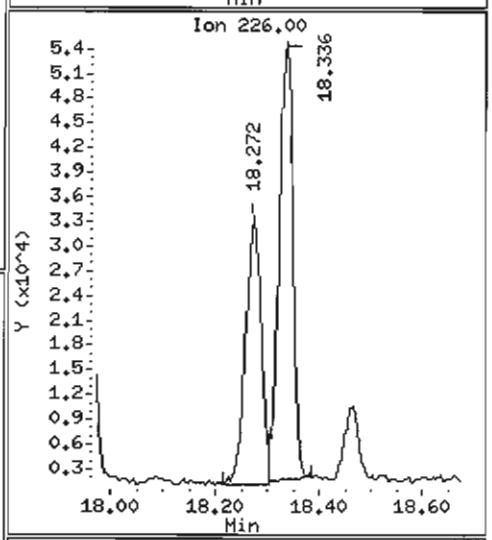


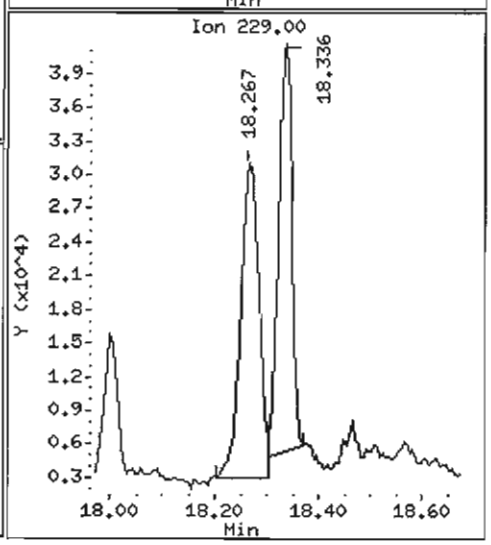












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

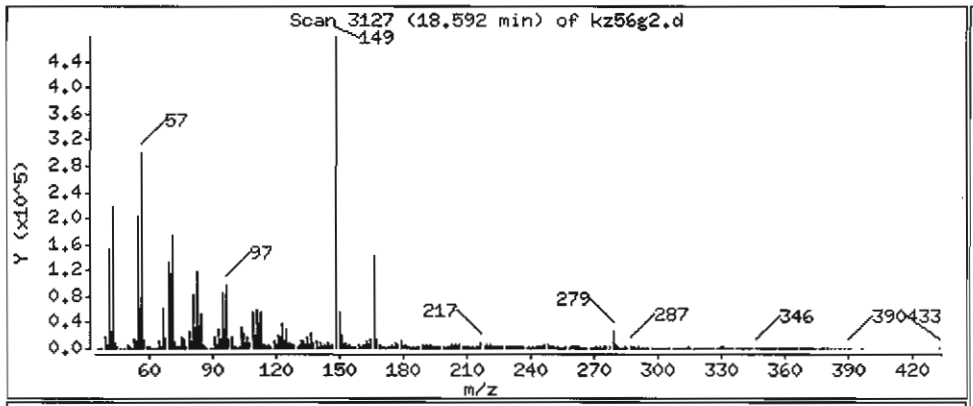
Operator: LJR/VTS

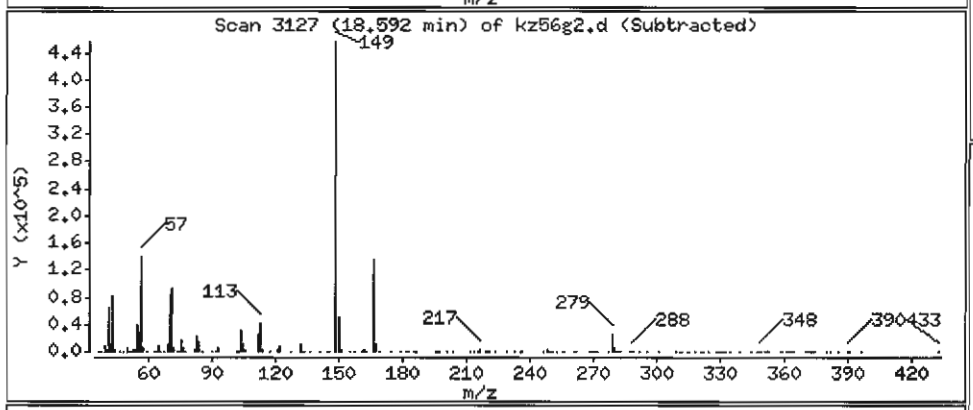
Column phase: ZB-5

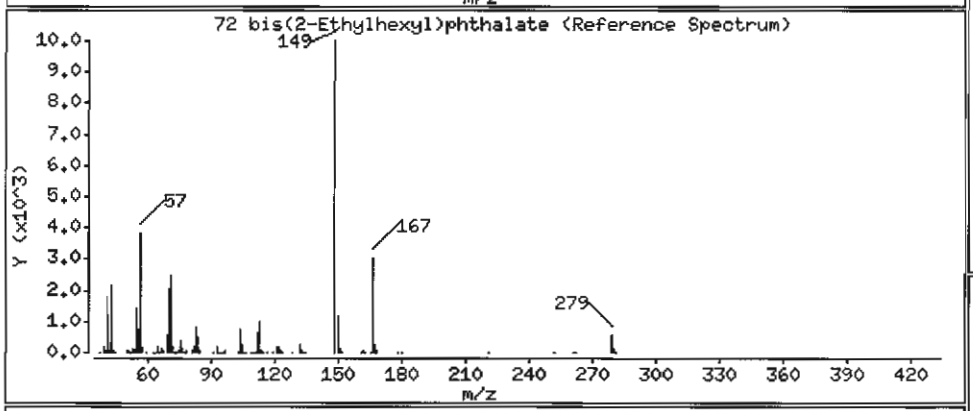
Column diameter: 0.32

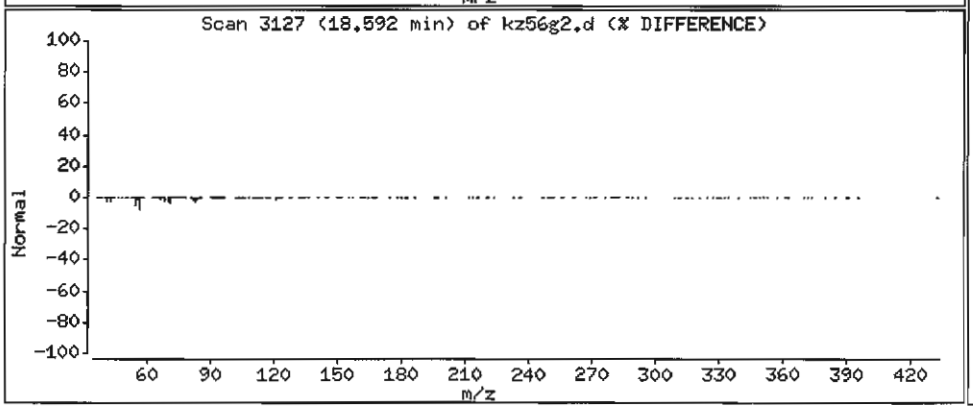
72 bis(2-Ethylhexyl)phthalate

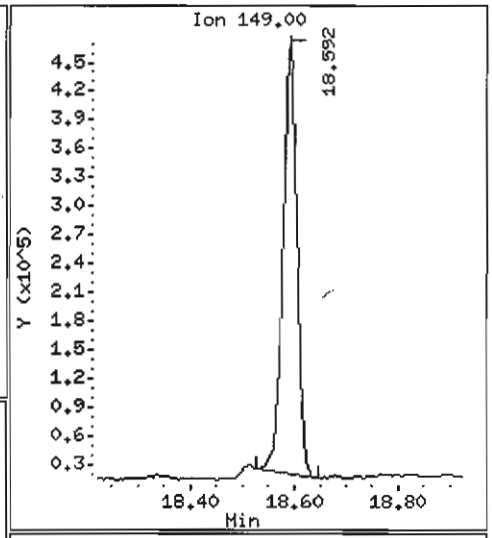
Concentration: 3711 ug/kg

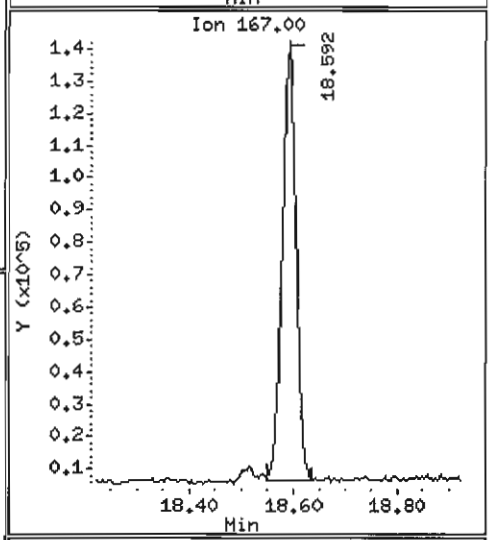


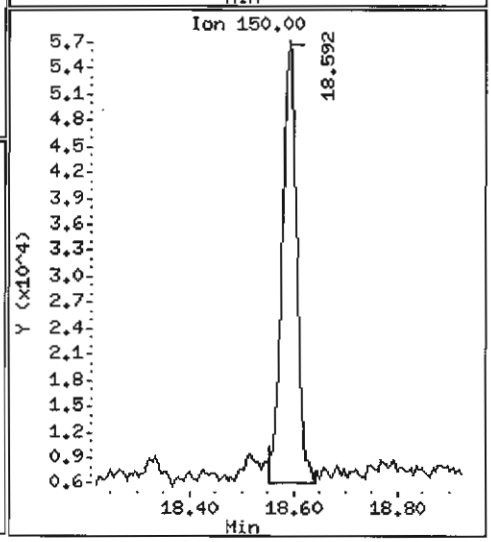












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

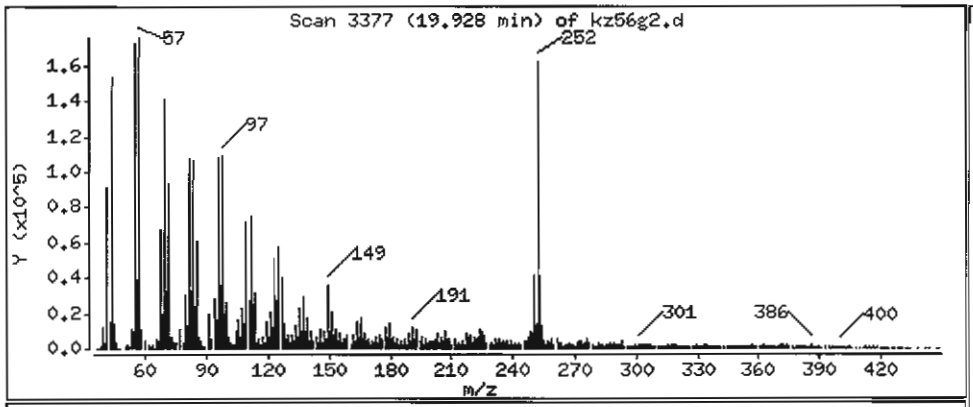
Operator: LJR/VTS

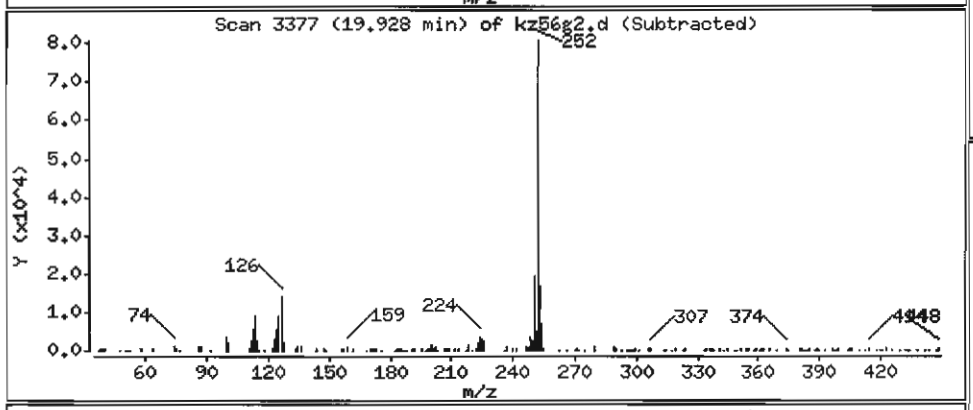
Column phase: ZB-5

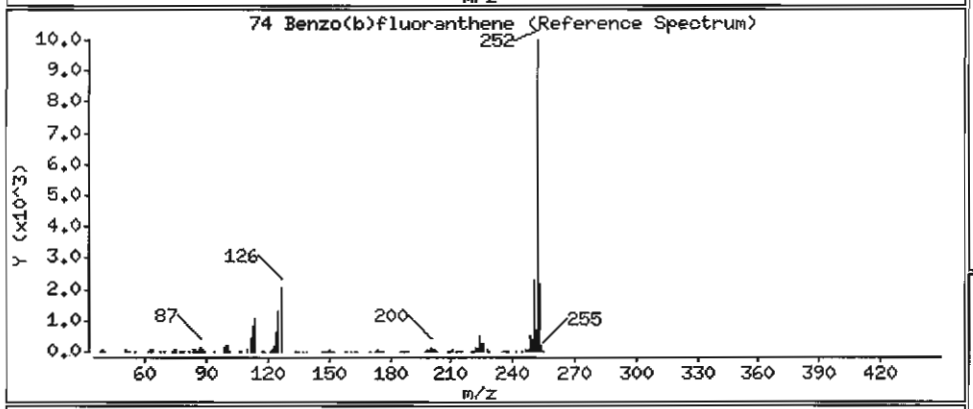
Column diameter: 0.32

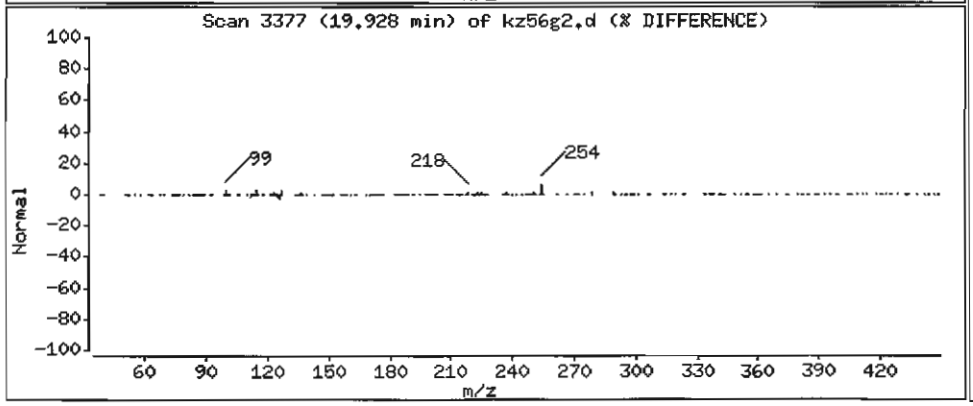
74 Benzo(b)fluoranthene

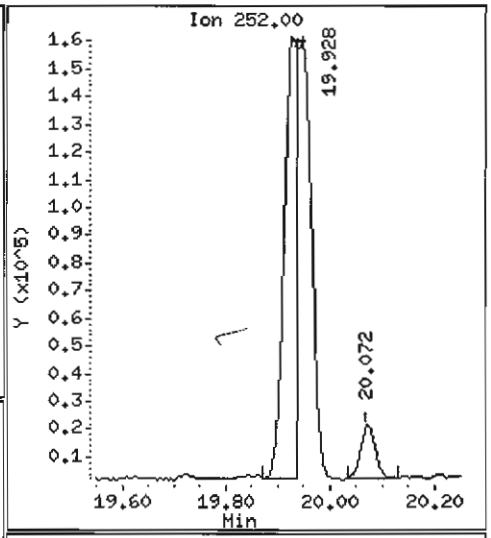
Concentration: 981.8 ug/kg

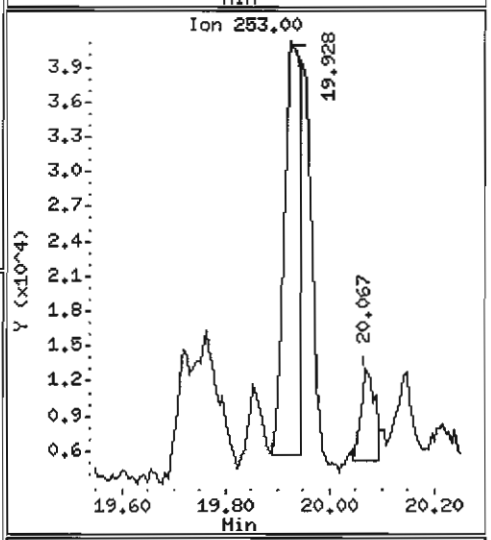


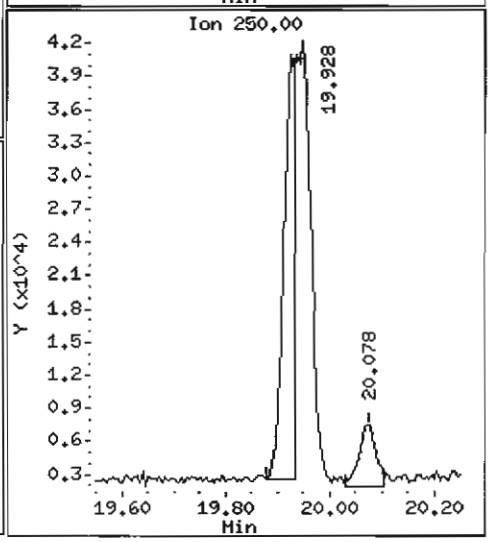












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

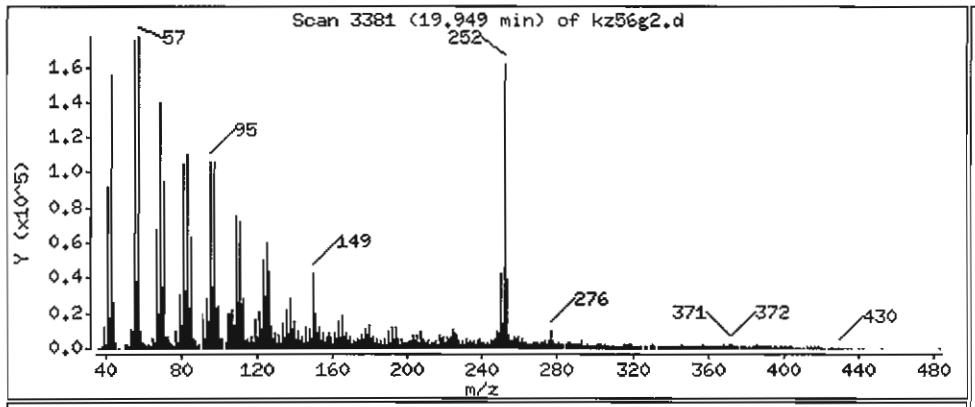
Operator: LJR/VTS

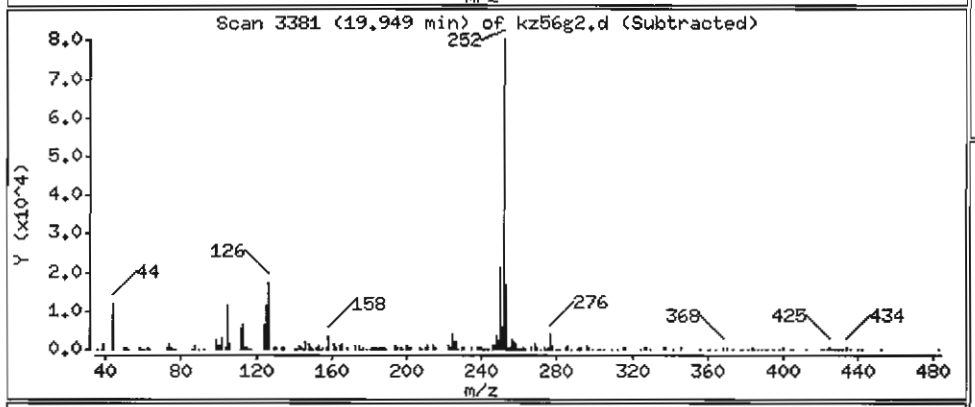
Column phase: ZB-5

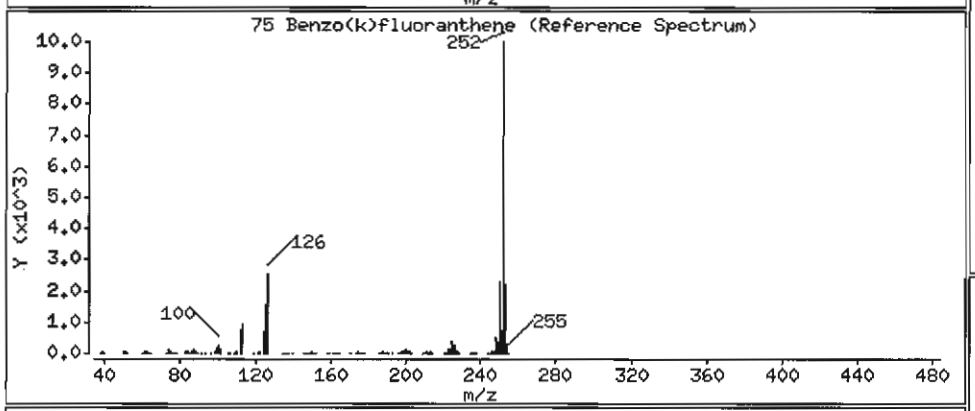
Column diameter: 0.32

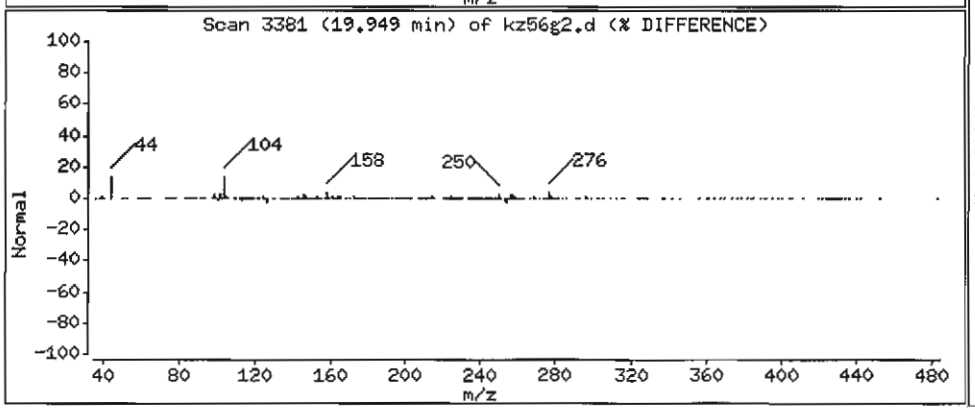
75 Benzo(k)fluoranthene

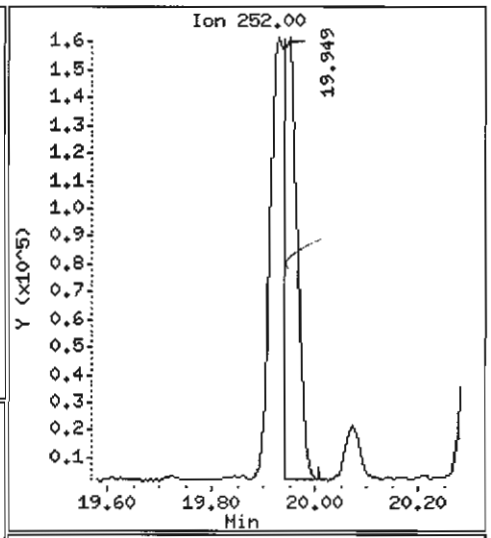
Concentration: 994.9 ug/kg

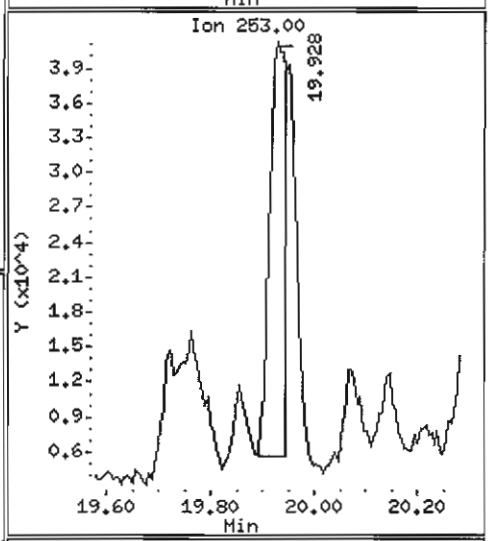


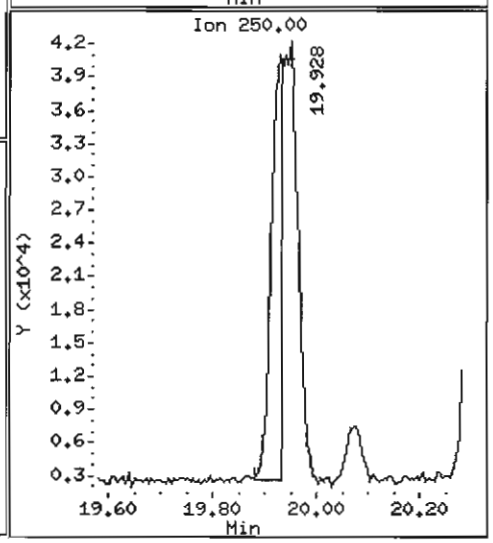












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

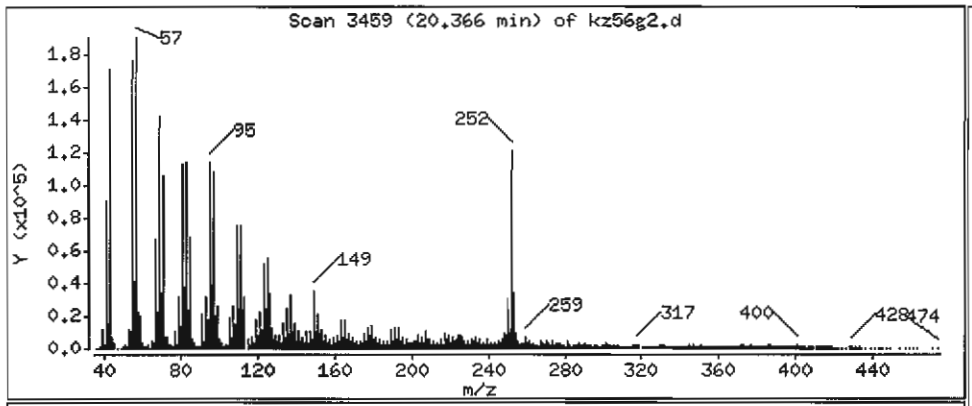
Operator: LJR/VTS

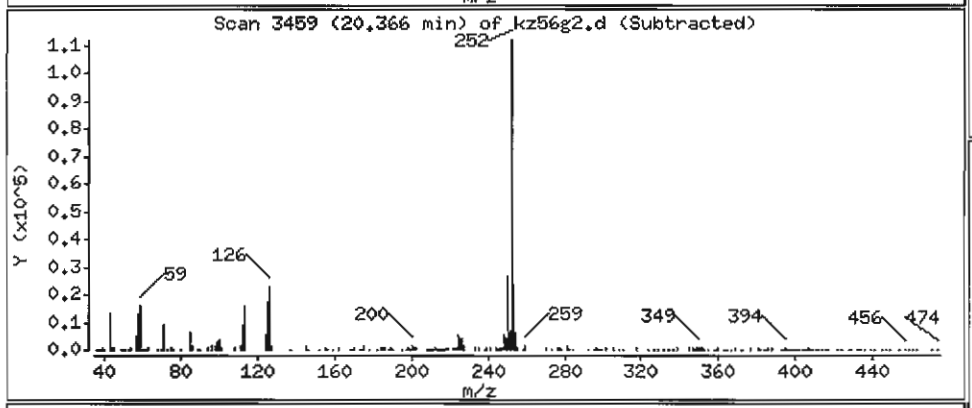
Column phase: ZB-5

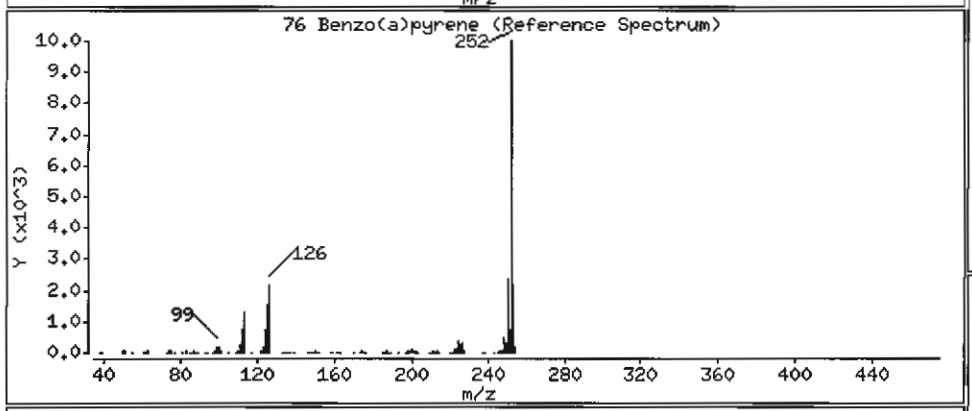
Column diameter: 0.32

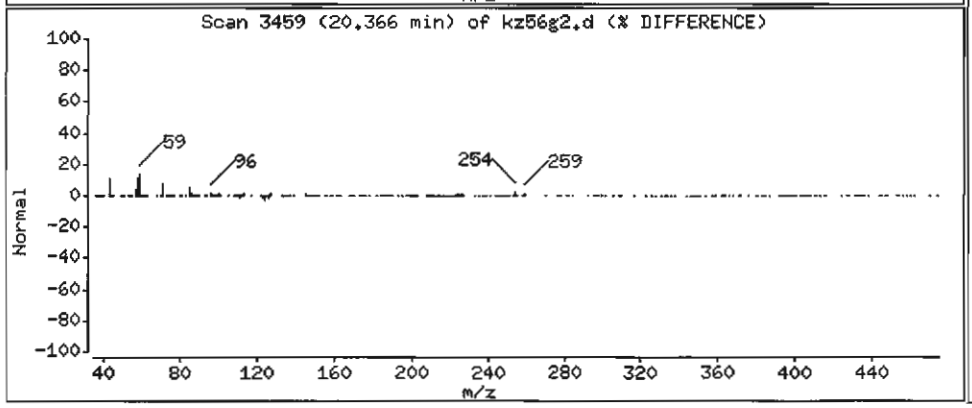
76 Benzo(a)pyrene

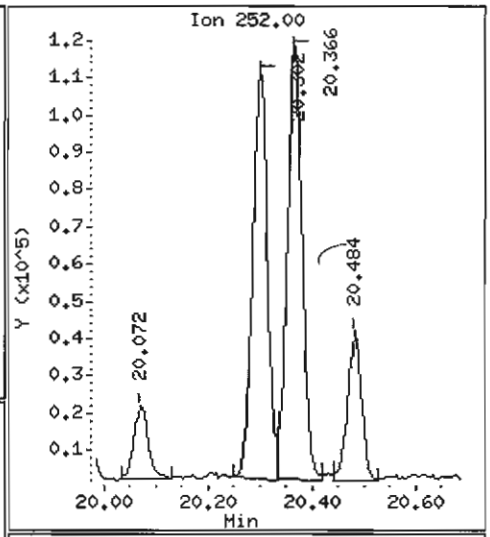
Concentration: 766.4 ug/kg

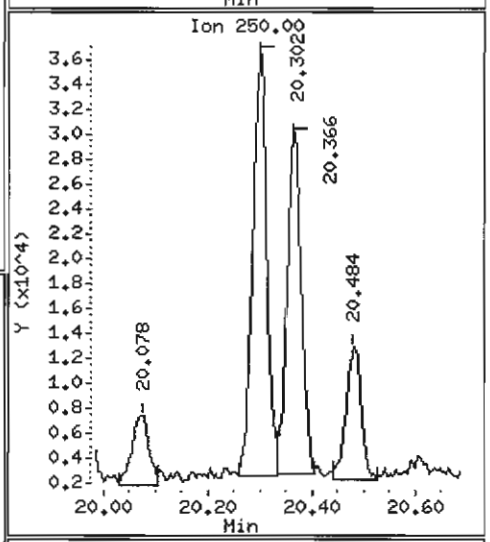


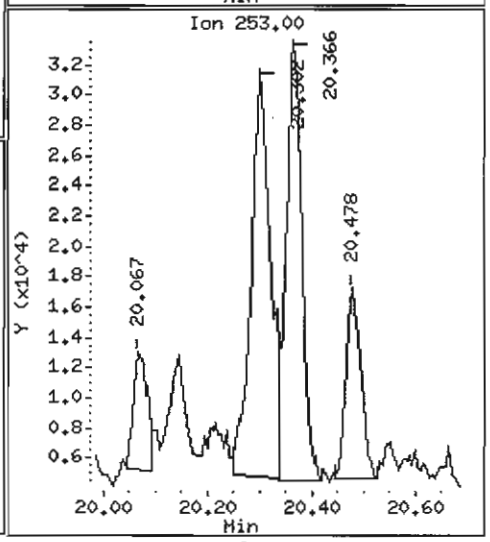












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56C,3

Volume Injected (uL): 1.0

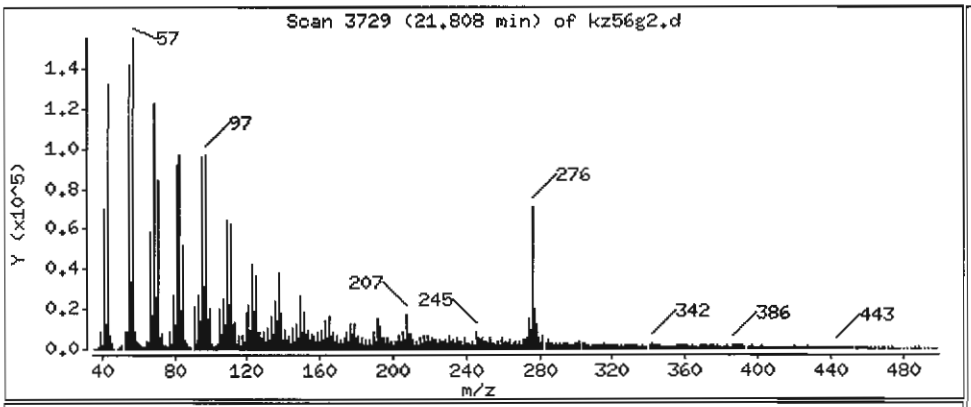
Operator: LJR/VTS

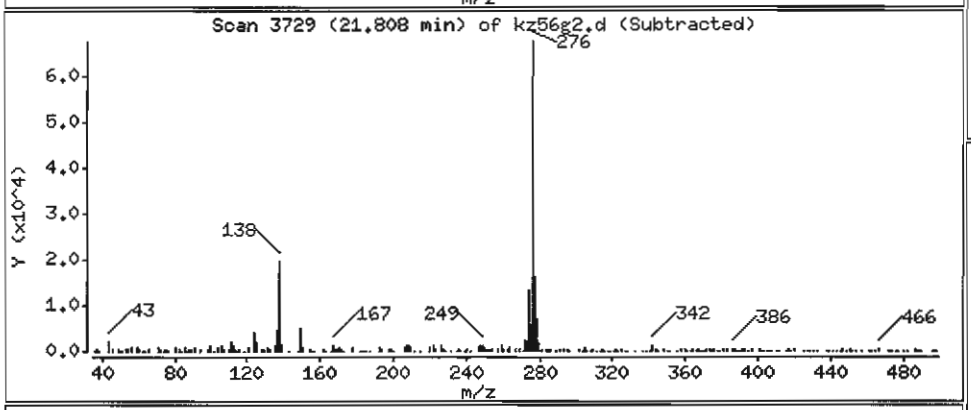
Column phase: ZB-5

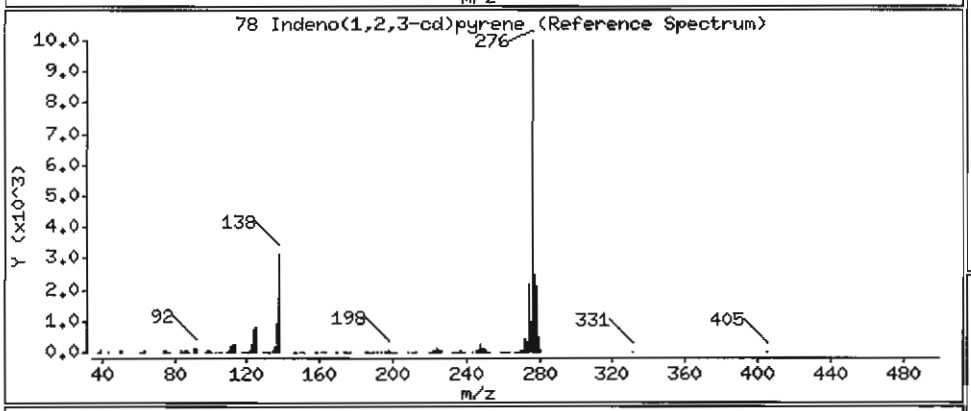
Column diameter: 0.32

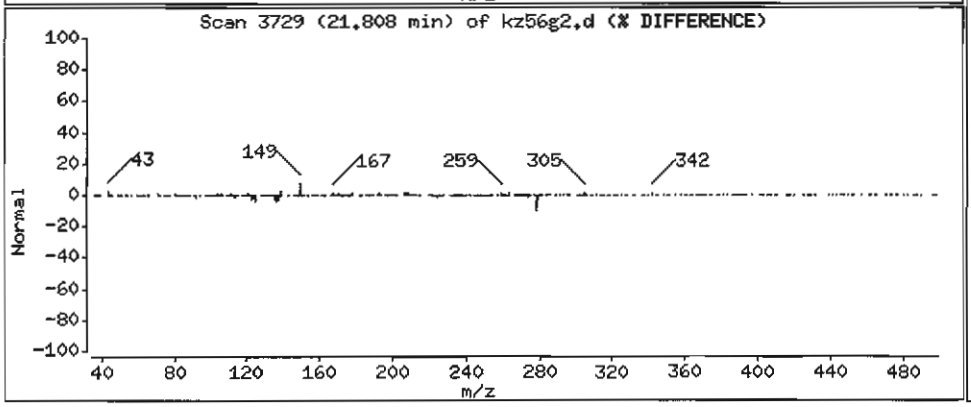
78 Indeno(1,2,3-cd)pyrene

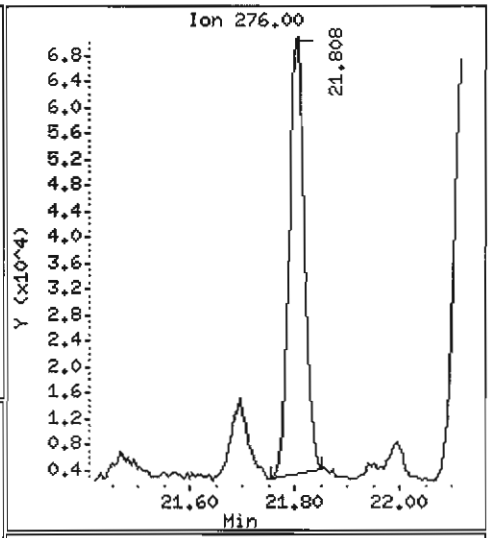
Concentration: 375.9 ug/kg

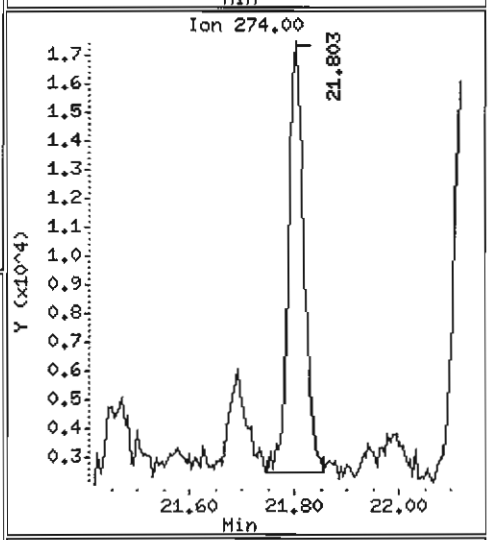


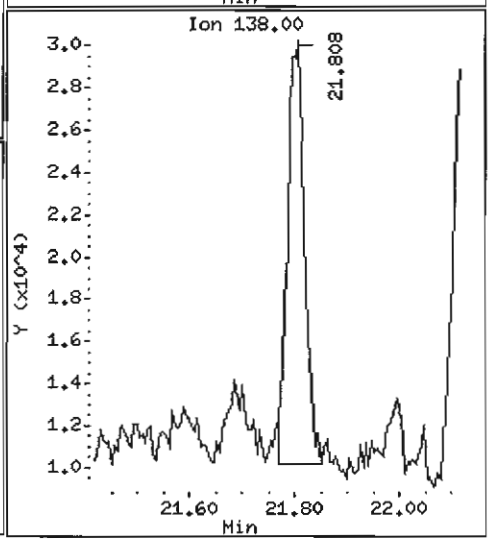












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

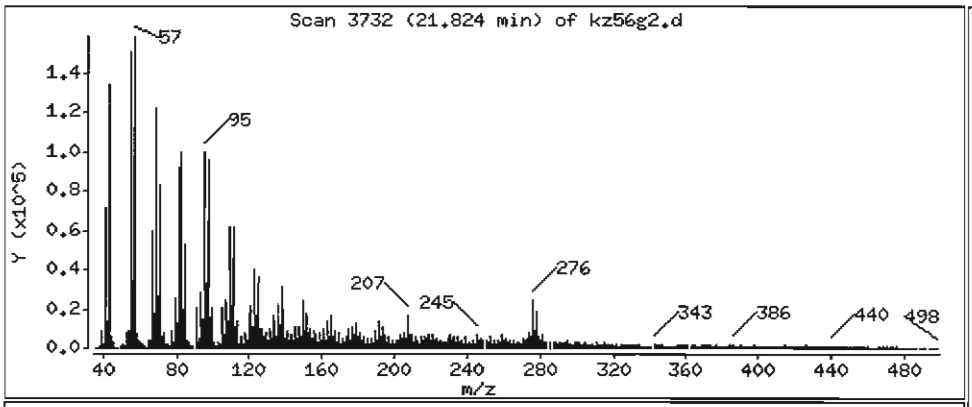
Operator: LJR/VTS

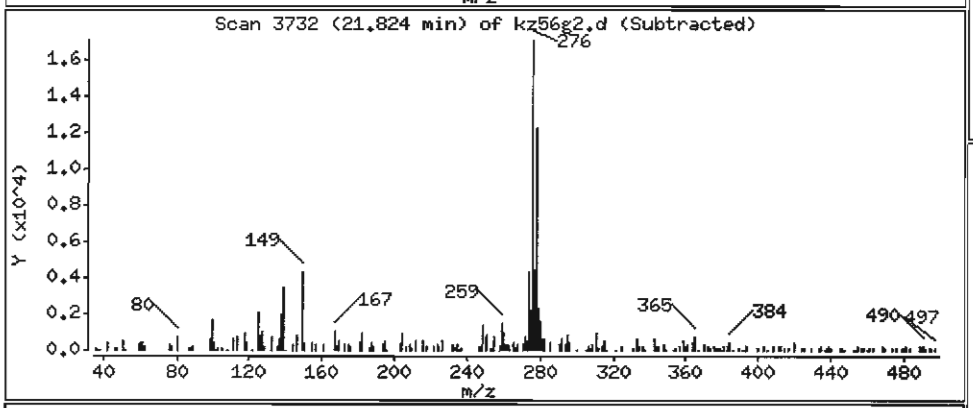
Column phase: ZB-5

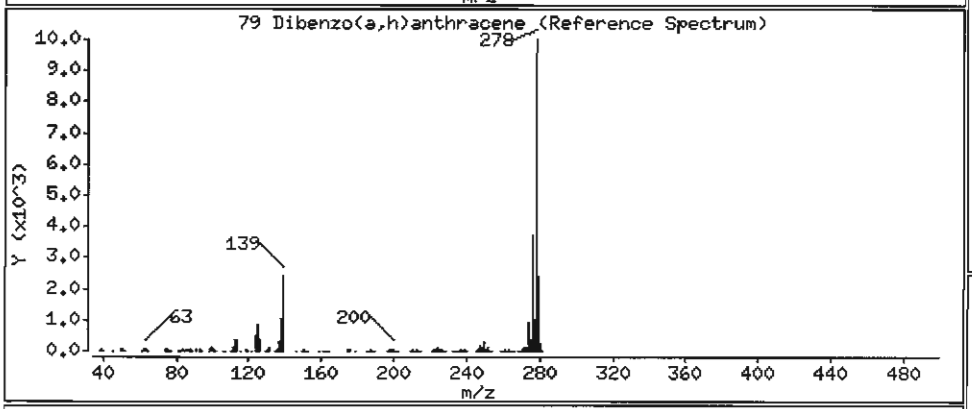
Column diameter: 0.32

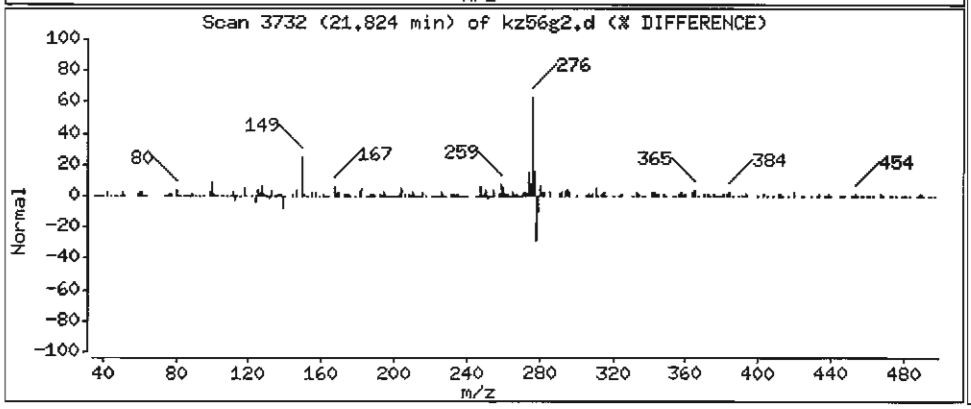
79 Dibenzo(a,h)anthracene

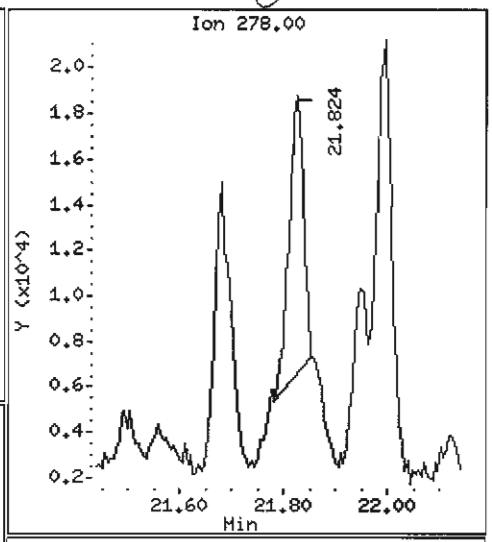
Concentration: 77.66 ug/kg

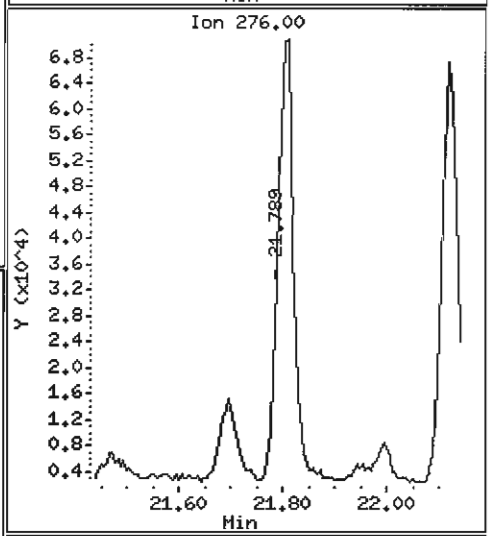


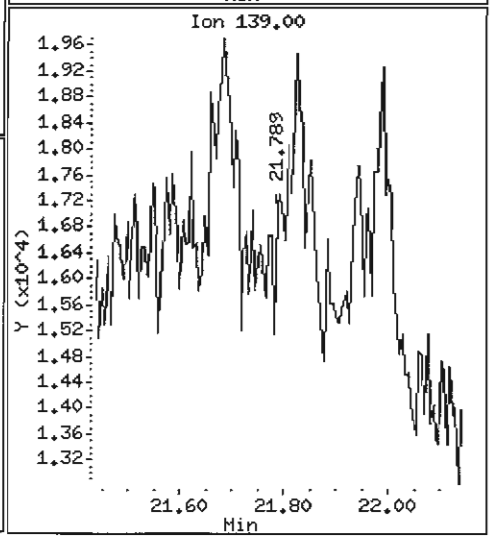












Data File: /chem1/nt6.i/20070529.b/kz56g2.d

Date : 29-MAY-2007 11:32

Client ID: Y3-RC07-S

Instrument: nt6.i

Sample Info: KZ56G,3

Volume Injected (uL): 1.0

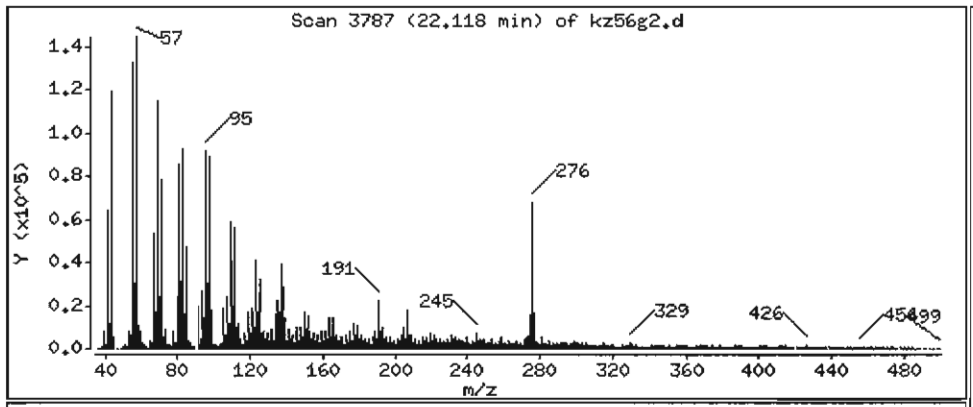
Operator: LJR/VTS

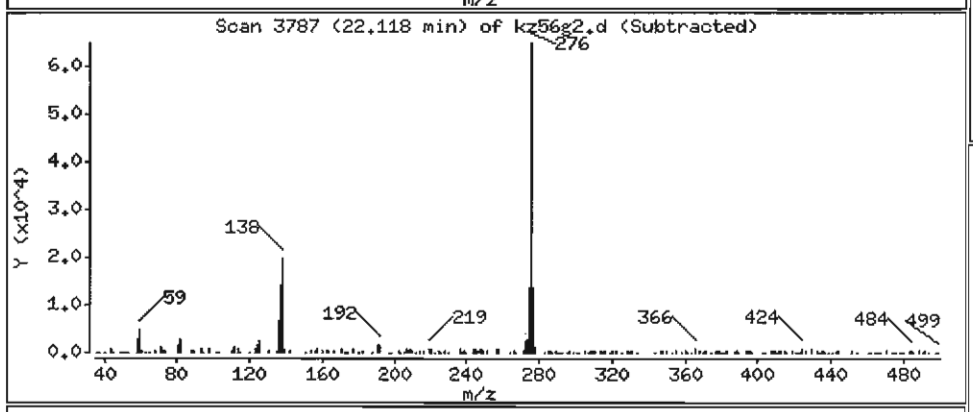
Column phase: ZB-5

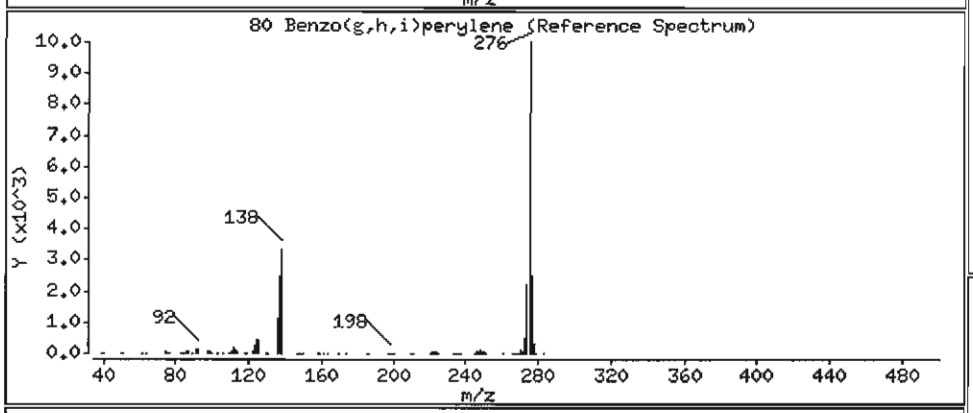
Column diameter: 0.32

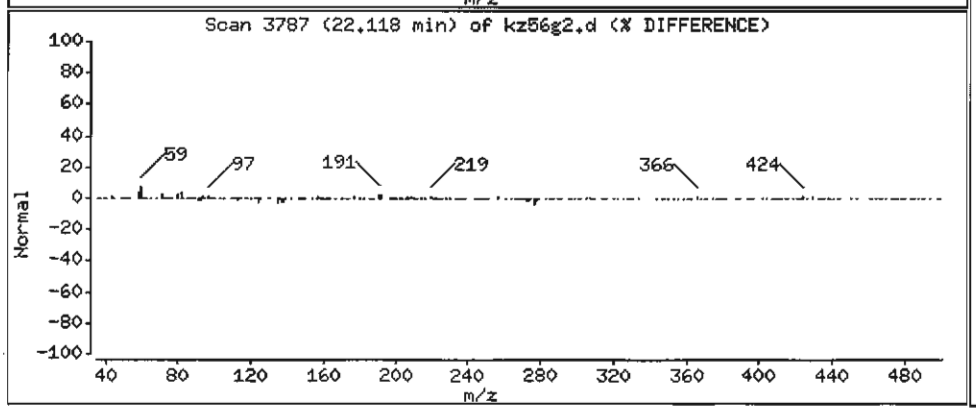
80 Benzo(g,h,i)perylene

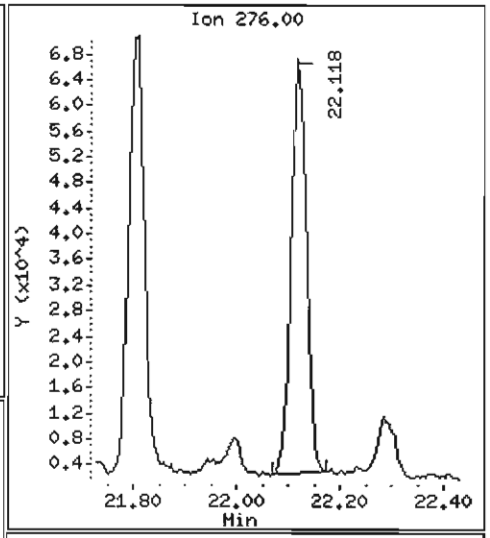
Concentration: 395.9 ug/kg

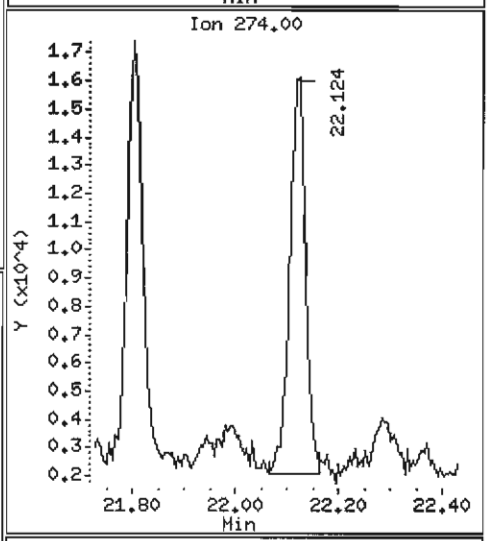


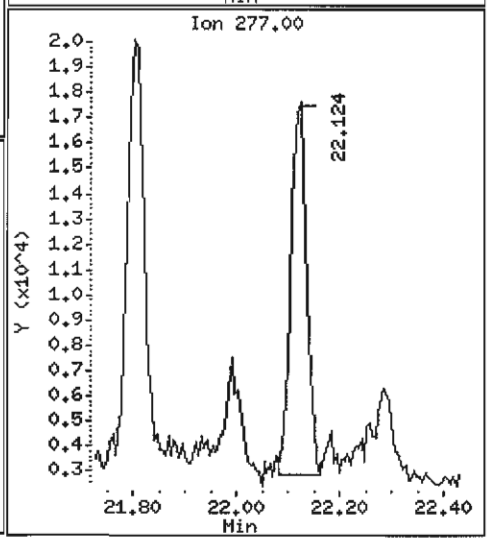












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC08-S
SAMPLE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 17:10
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.8%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	200
91-57-6	2-Methylnaphthalene	120	76 J
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	87 J
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	74 J
85-01-8	Phenanthrene	120	890
120-12-7	Anthracene	120	200
206-44-0	Fluoranthene	120	1,900
129-00-0	Pyrene	120	1,900
56-55-3	Benzo(a)anthracene	120	800
117-81-7	bis(2-Ethylhexyl)phthalate	120	4,300
218-01-9	Chrysene	120	1,200
205-99-2	Benzo(b)fluoranthene	120	1,400
207-08-9	Benzo(k)fluoranthene	120	1,100
50-32-8	Benzo(a)pyrene	120	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	120	600
53-70-3	Dibenz(a,h)anthracene	120	270
191-24-2	Benzo(g,h,i)perylene	120	650

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.0%	2-Fluorobiphenyl	67.8%
d14-p-Terphenyl	62.3%	d4-1,2-Dichlorobenzene	58.6%
d5-Phenol	62.2%	2-Fluorophenol	53.4%
2,4,6-Tribromophenol	58.9%	d4-2-Chlorophenol	59.9%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56h.d
Lab Smp Id: KZ56H — Client Smp ID: Y3-RC08-S
Inj Date : 26-MAY-2007 17:10
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56H,3
Misc Info : 07-9554
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 5
Dil Factor: 3.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.10000	Weight of sample extracted (g)
M	47.80000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.989	4.981	(0.725)	131233	6.67651	765.9
$ 2 Phenol-d5	99	6.512	6.514	(0.946)	179380	7.77784	892.2
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.597	6.595	(0.958)	119433	7.48945	859.1
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.886	6.883	(1.000)	216197	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.174	7.177	(1.042)	47614	4.88277	560.1
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.799	7.807	(0.876)	102759	5.67058	650.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.900	8.902	(1.000)	761566	20.0000	
	28 Naphthalene	128	8.927	8.934	(1.003)	78943	1.75004	200.8
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	10.043	10.046	(1.128)	15096	0.65834 LOL	75.52
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
§	36 2-Fluorobiphenyl	172	10.695	10.703	(0.911)	138857	5.64802	647.9
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.737	11.734	(1.000)	364274	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.785	11.787	(1.004)	17429	0.75821 LOL	86.98(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.597	12.599	(1.073)	15546	0.63665 LOL	73.03(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.019	13.021	(1.109)	27280	7.35586	843.8
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.087	14.084	(1.000)	446314	20.0000	
	60 Phenanthrene	178	14.119	14.122	(1.002)	231796	7.78219	892.7
	61 Anthracene	178	14.194	14.196	(1.008)	53011	1.72248	197.6
	62 Carbazole	167	14.493	14.496	(1.029)	40931	1.54557	177.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.252	15.249	(1.083)	26363	0.80718 LDL	92.59(M)
64 Fluoranthene	202	16.058	16.045	(1.140)	471496	16.6843	1914
65 Pyrene	202	16.400	16.392	(0.892)	506160	16.5925	1903
$ 66 Terphenyl-d14	244	16.742	16.734	(0.911)	100343	5.19431	595.9
67 Butylbenzylphthalate	149	17.645	17.642	(0.960)	31589	2.20239	252.6(M)
68 Benzo(a)anthracene	228	18.355	18.342	(0.999)	192292	7.00190	803.2
* 69 Chrysene-d12	240	18.382	18.369	(1.000)	367647	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.420	18.406	(1.002)	289553	10.4226	1196
72 bis(2-Ethylhexyl)phthalate	149	18.671	18.657	(0.952)	740428	37.8058	4337(M)
* 134 Di-n-octylphthalate-d4	153	19.606	19.587	(1.000)	571803	20.0000	
73 Di-n-octylphthalate	149	19.622	19.592	(1.001)	50030	1.47281	169.0(M)
74 Benzo(b)fluoranthene	252	20.012	19.987	(0.974)	335326	12.4697	1430
75 Benzo(k)fluoranthene	252	20.033	20.019	(0.976)	240491	9.30950	1068(M)
76 Benzo(a)pyrene	252	20.455	20.425	(0.996)	236656	8.79237	1009
* 77 Perylene-d12	264	20.535	20.505	(1.000)	414746	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.892	21.852	(1.066)	167069	5.25011	602.3(M)
79 Dibenzo(a,h)anthracene	278	21.919	21.884	(1.067)	62309	2.36411	271.2(M)
80 Benzo(g,h,i)perylene	276	22.218	22.178	(1.082)	164212	5.63307	646.2(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56h.d
Lab Smp Id: KZ56H
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC08-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	216197	-0.36
27 Naphthalene-d8	799420	399710	1598840	761566	-4.74
42 Acenaphthene-d10	390056	195028	780112	364274	-6.61
59 Phenanthrene-d10	573879	286940	1147758	446314	-22.23
69 Chrysene-d12	366829	183414	733658	367647	0.22
134 Di-n-octylphthala	621709	310854	1243418	571803	-8.03
77 Perylene-d12	428868	214434	857736	414746	-3.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.04
27 Naphthalene-d8	8.90	8.40	9.40	8.90	-0.03
42 Acenaphthene-d10	11.73	11.23	12.23	11.74	0.02
59 Phenanthrene-d10	14.08	13.58	14.58	14.09	0.02
69 Chrysene-d12	18.37	17.87	18.87	18.38	0.07
134 Di-n-octylphthala	19.59	19.09	20.09	19.61	0.10
77 Perylene-d12	20.51	20.01	21.01	20.54	0.14

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

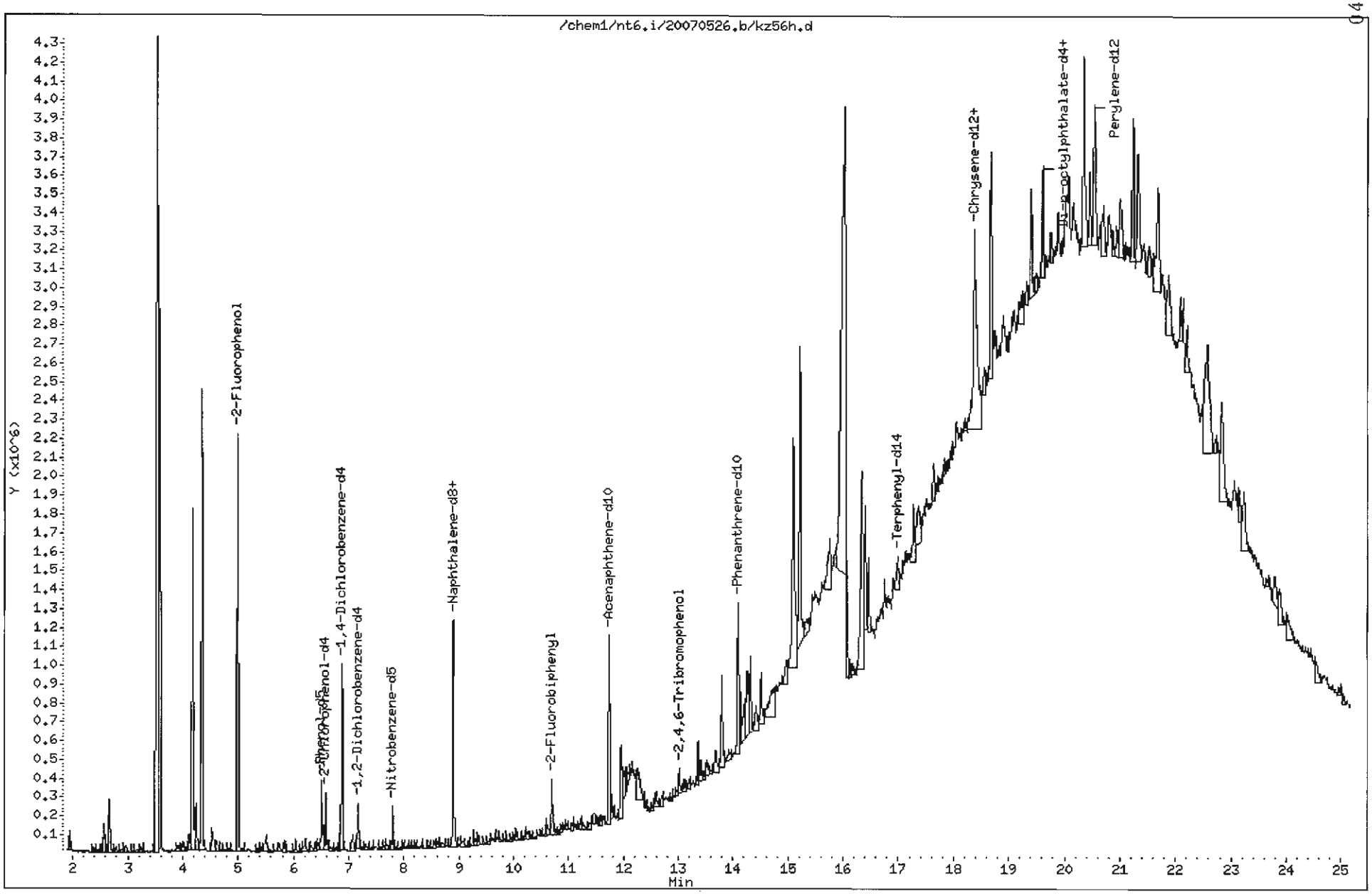
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56H
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC08-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1434	765.9	53.41	22-91
$ 2 Phenol-d5	1434	892.2	62.22	26-99
$ 5 2-Chlorophenol-d4	1434	859.1	59.92	29-96
$ 10 1,2-Dichlorobenzen	955.9	560.1	58.59	24-87
$ 18 Nitrobenzene-d5	955.9	650.5	68.05	27-101
$ 36 2-Fluorobiphenyl	955.9	647.9	67.78	30-100
$ 55 2,4,6-Tribromophen	1434	843.8	58.85	20-114
$ 66 Terphenyl-d14	955.9	595.9	62.33	12-120

Data File: /chem1/nt6.i/20070526.b/kz56h.d
Date : 26-MAY-2007 17:10
Client ID: Y3-RC08-S
Sample Info: KZ56H,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0421

Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

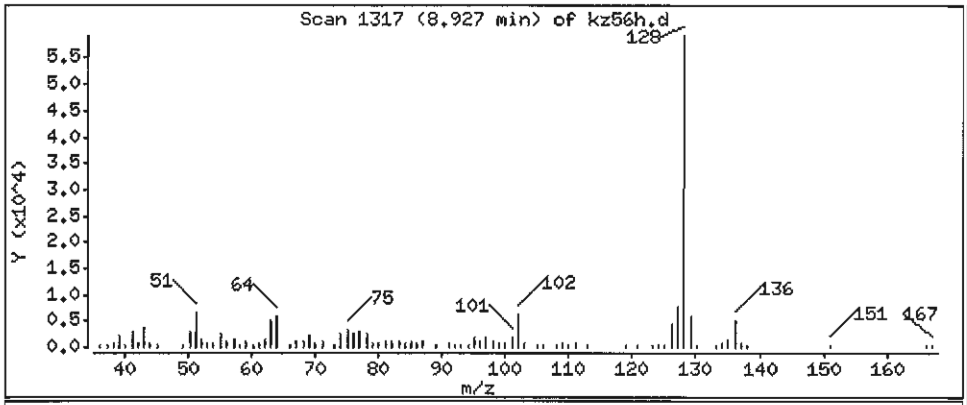
Operator: LJR/VTS

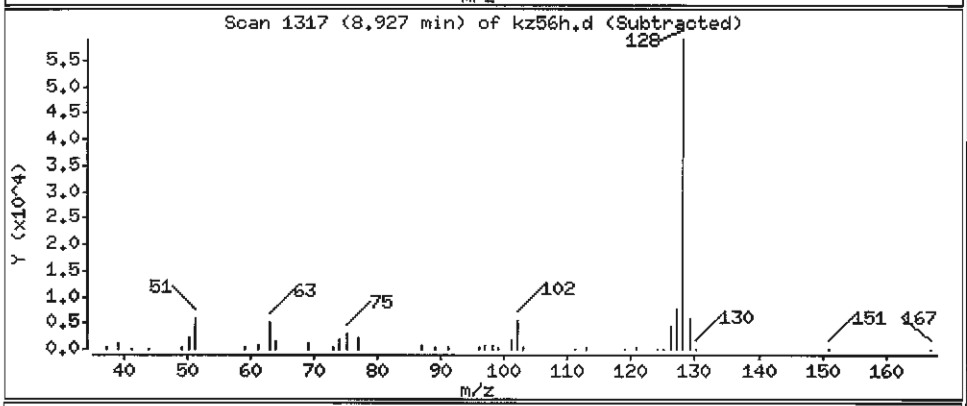
Column phase: ZB-5

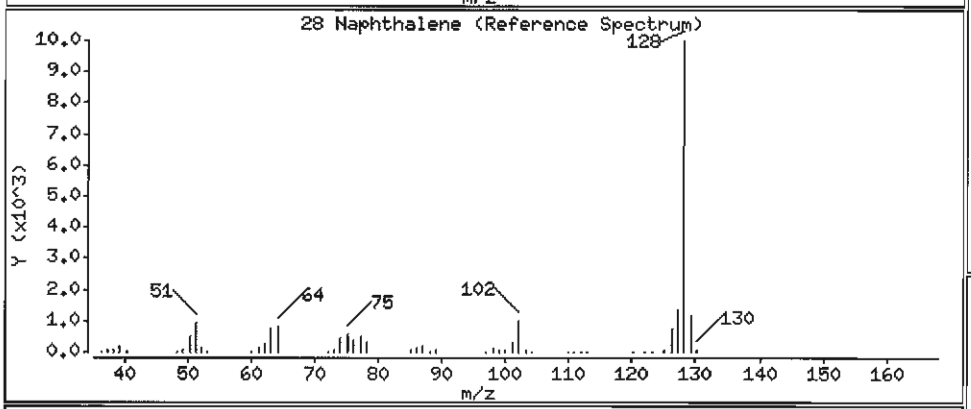
Column diameter: 0.32

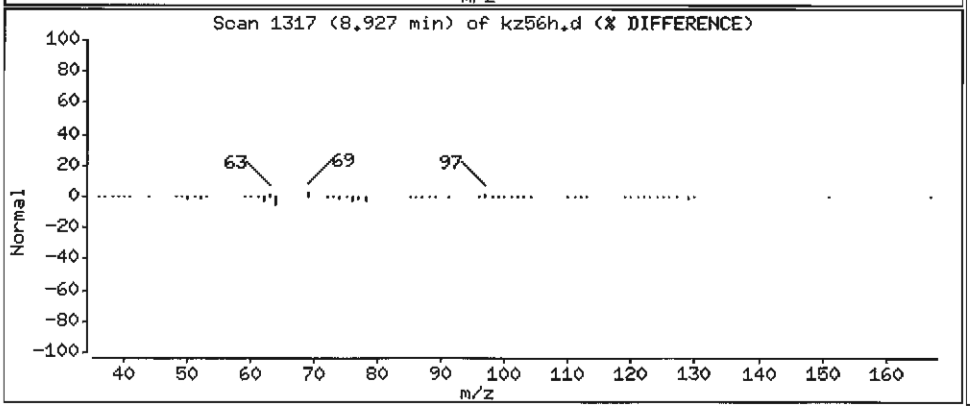
28 Naphthalene

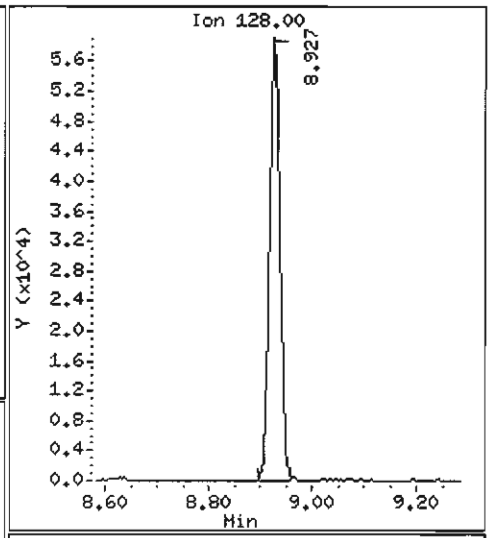
Concentration: 200.8 ug/kg

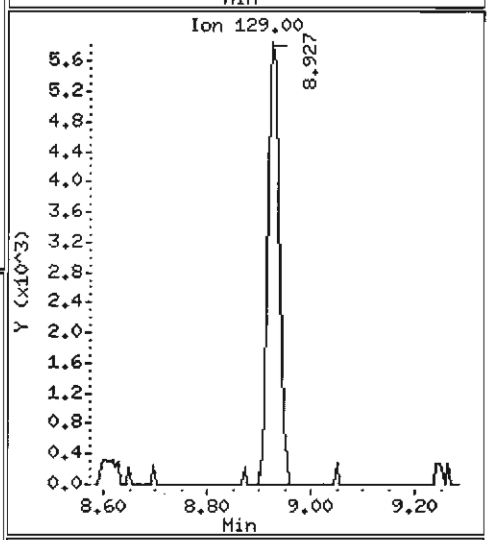


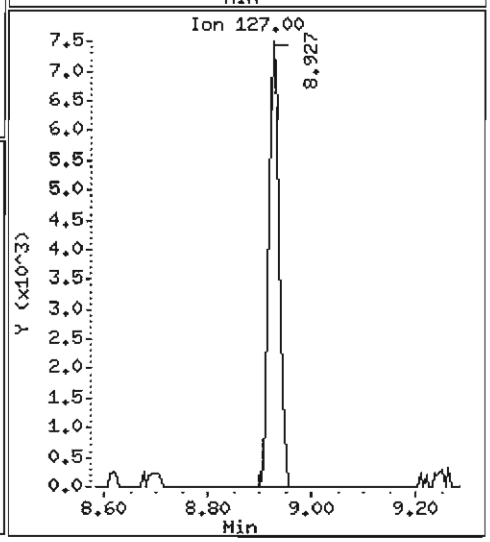












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

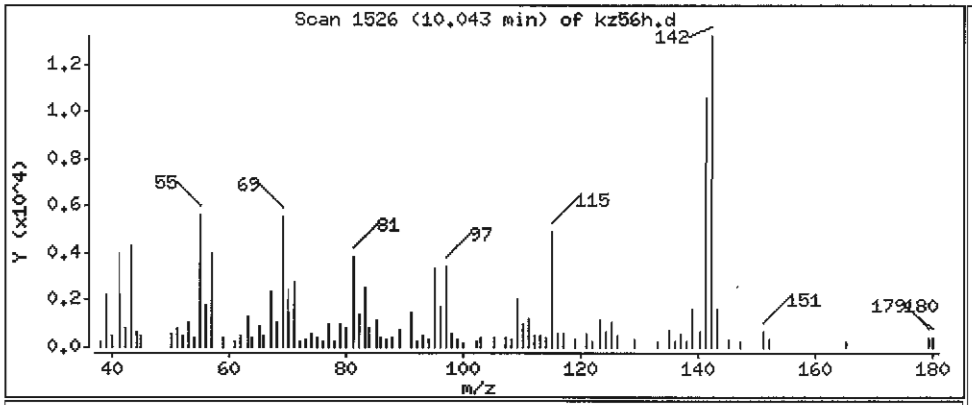
Operator: LJR/VTS

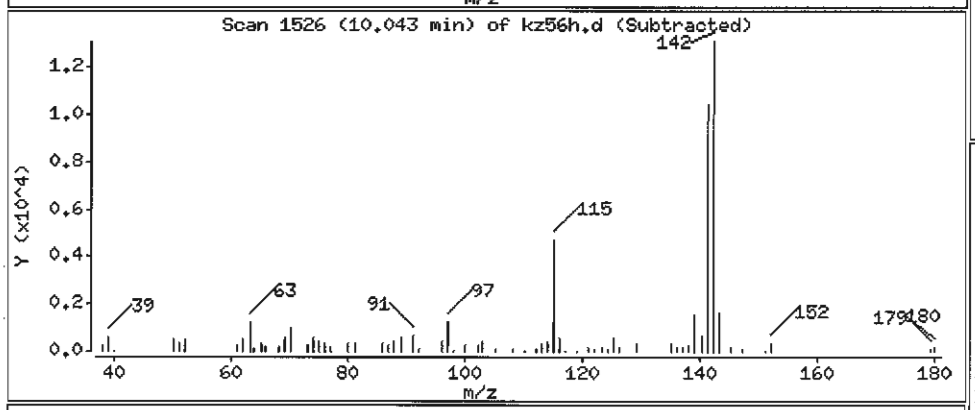
Column phase: ZB-5

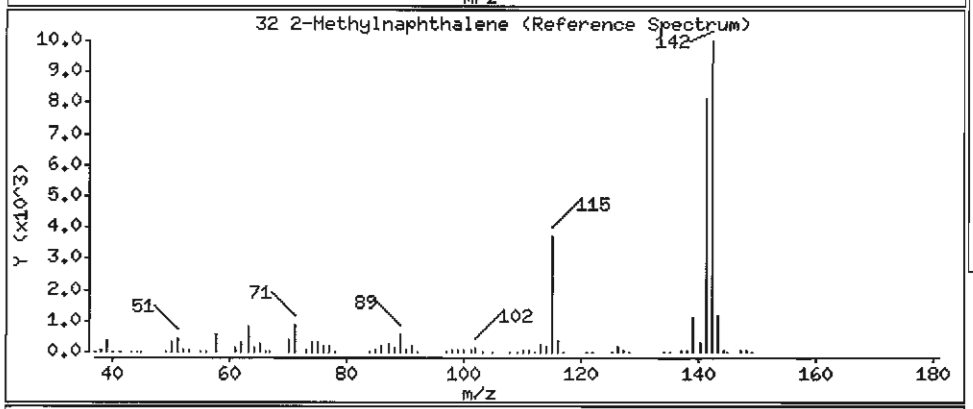
Column diameter: 0.32

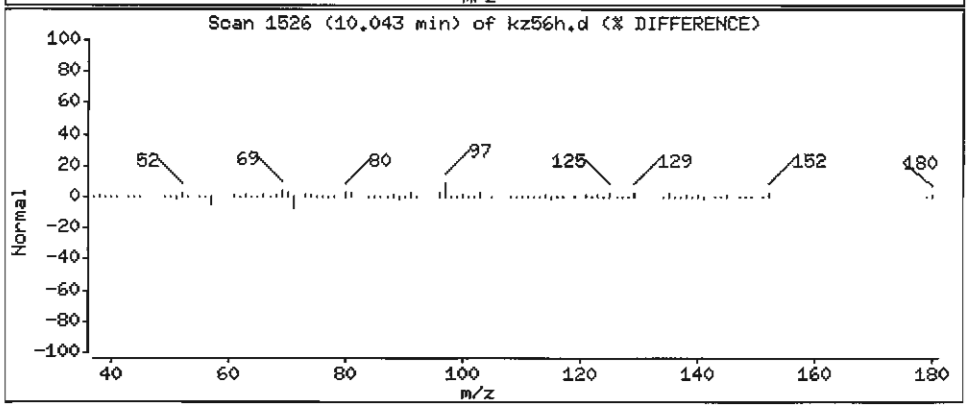
32 2-Methylnaphthalene

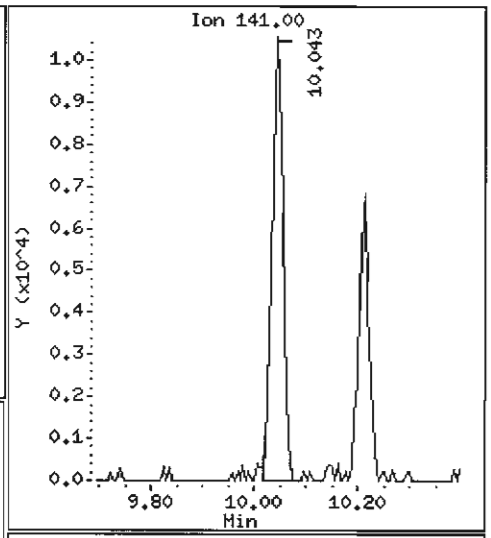
Concentration: 75.52 ug/kg

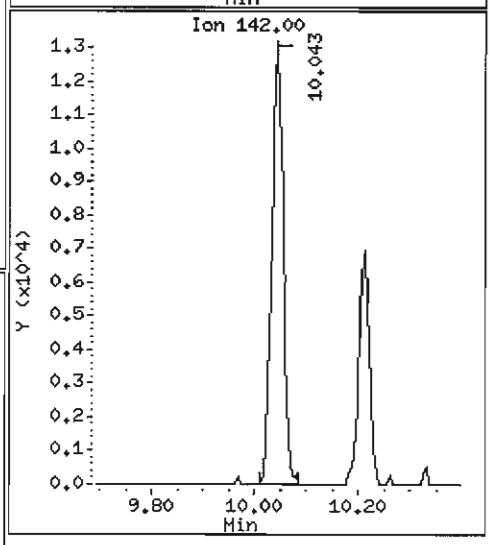












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

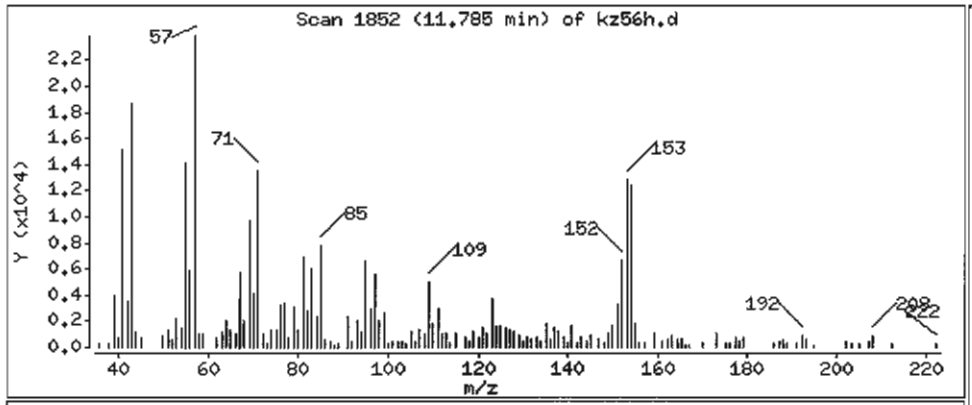
Operator: LJR/VTS

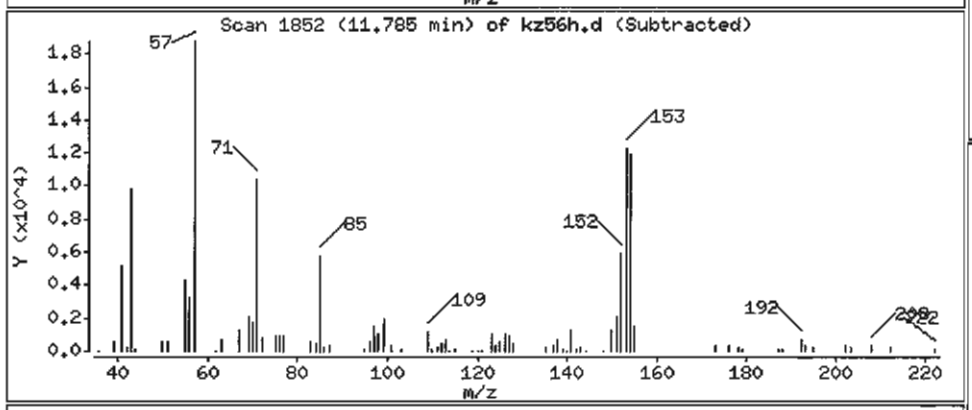
Column phase: ZB-5

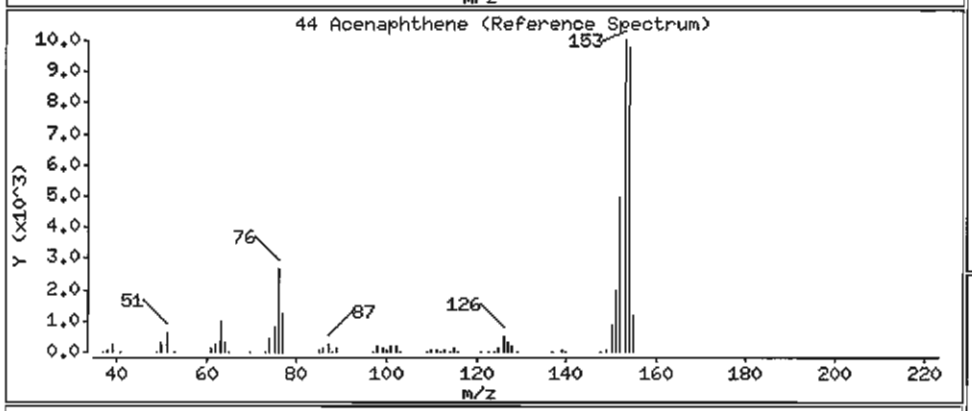
Column diameter: 0.32

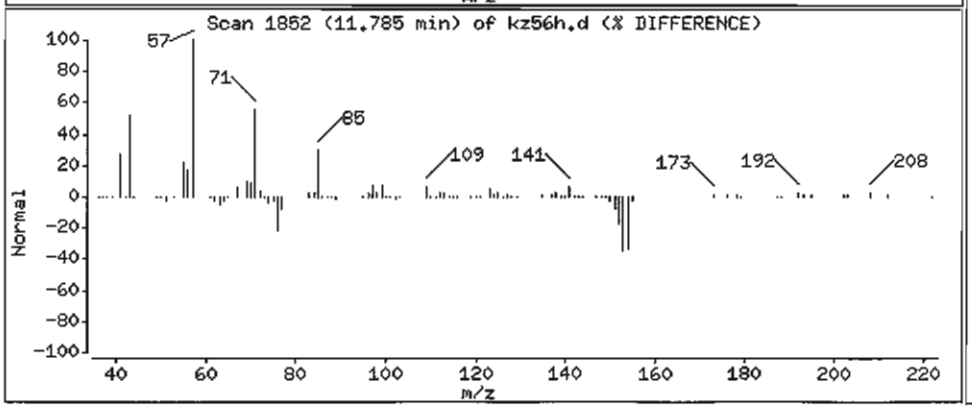
44 Acenaphthene

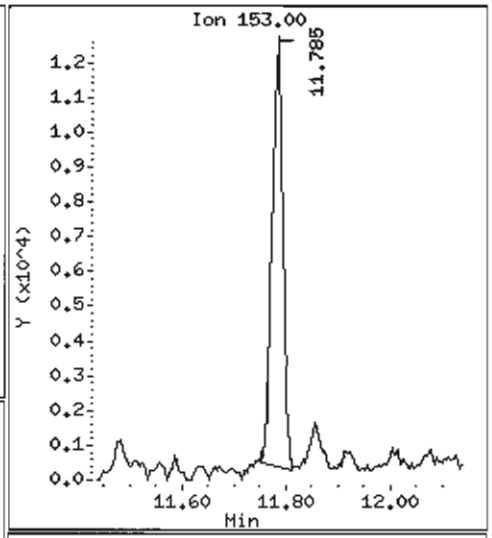
Concentration: 86.98 ug/kg

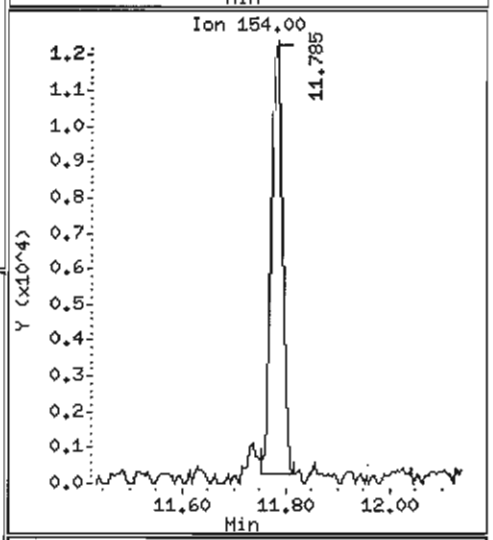


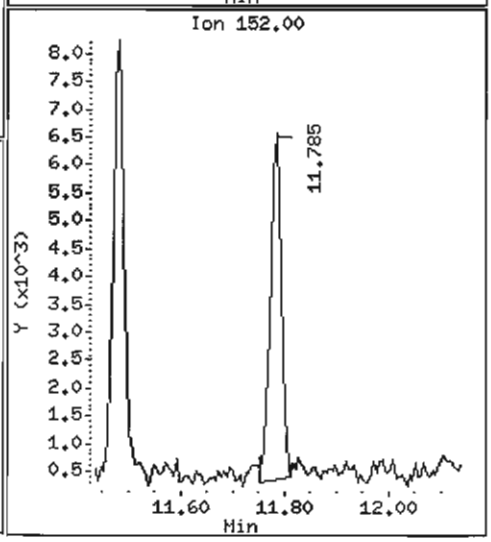












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

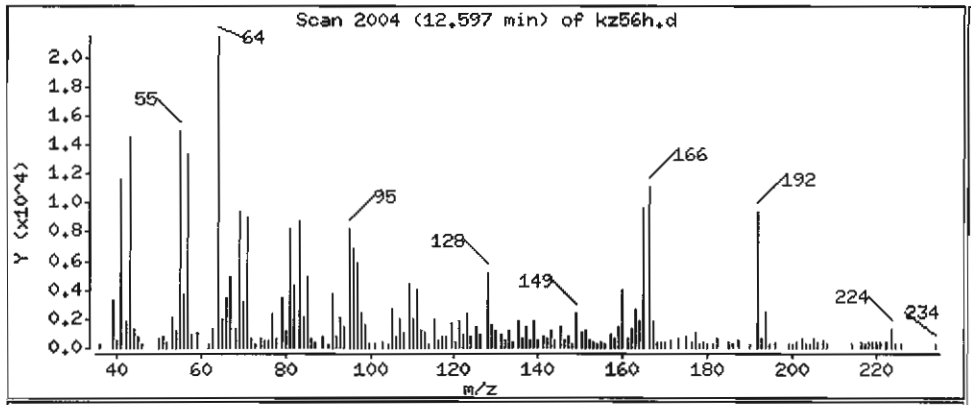
Column phase: ZB-5

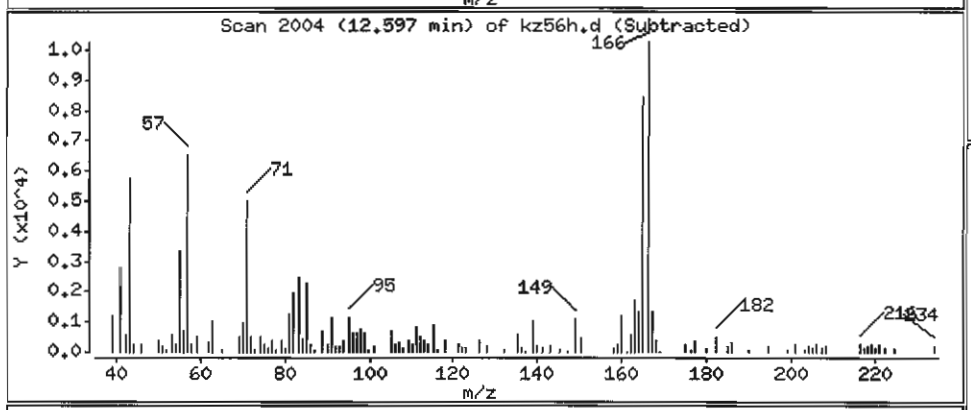
Column diameter: 0.32

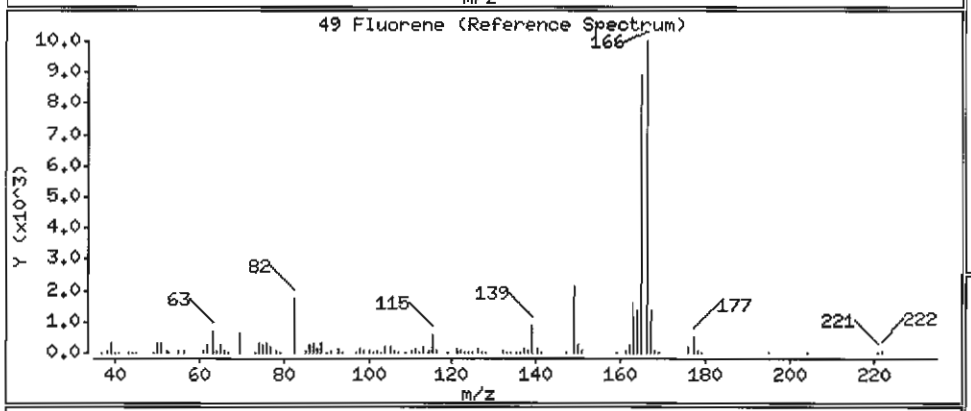
49 Fluorene

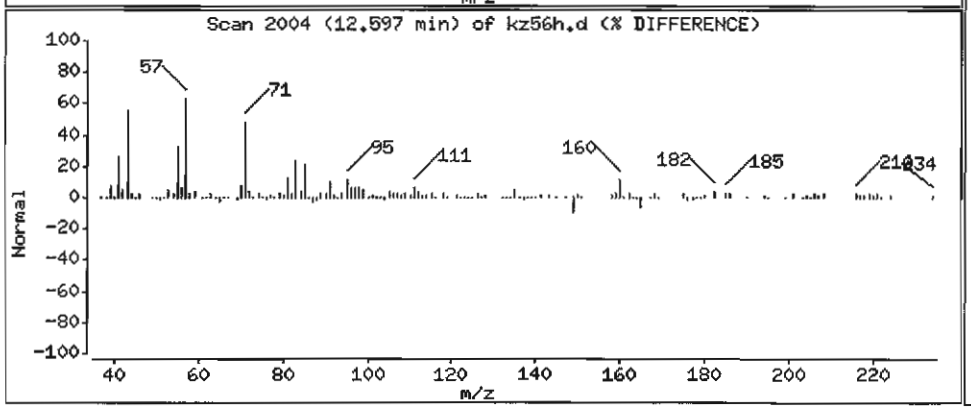
Concentration: 73.03 ug/kg

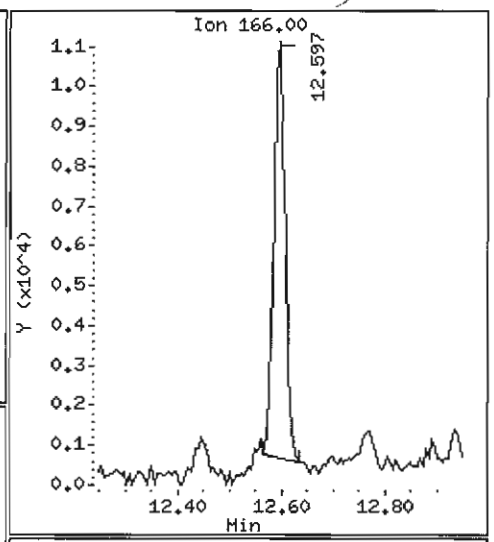
JCR

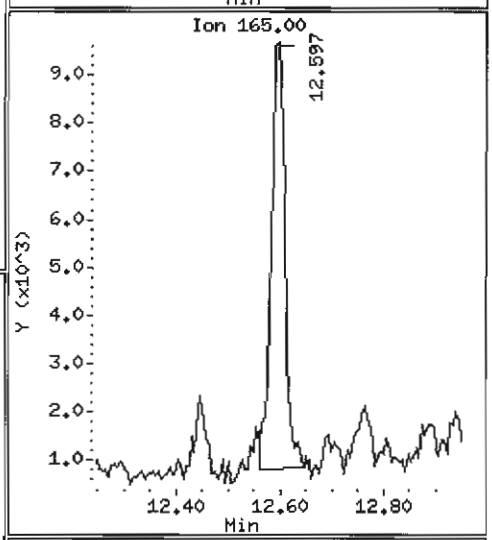


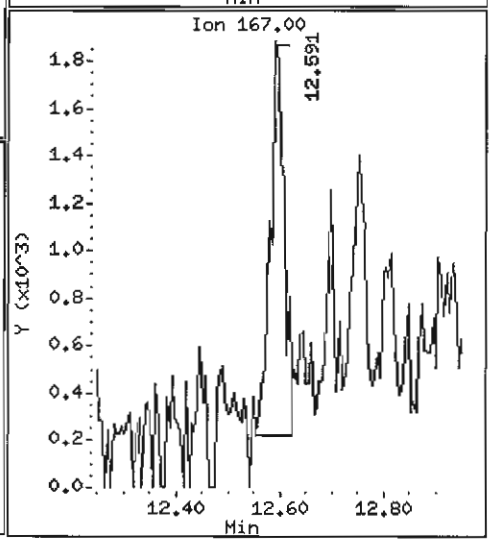












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

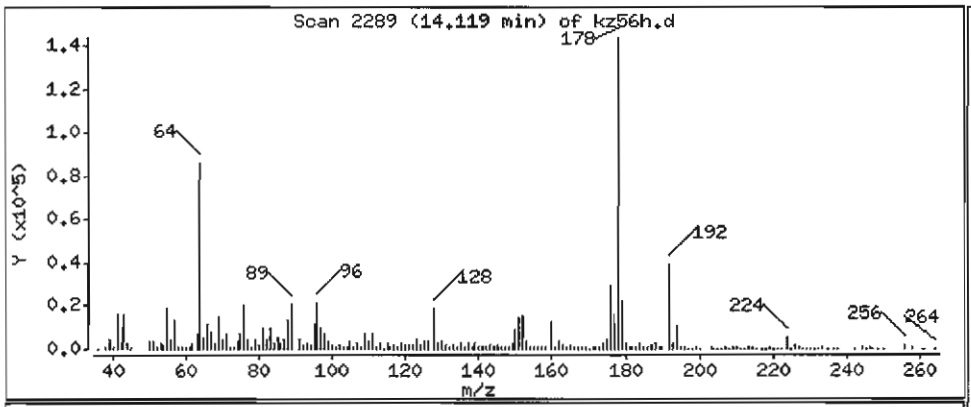
Operator: LJR/VTS

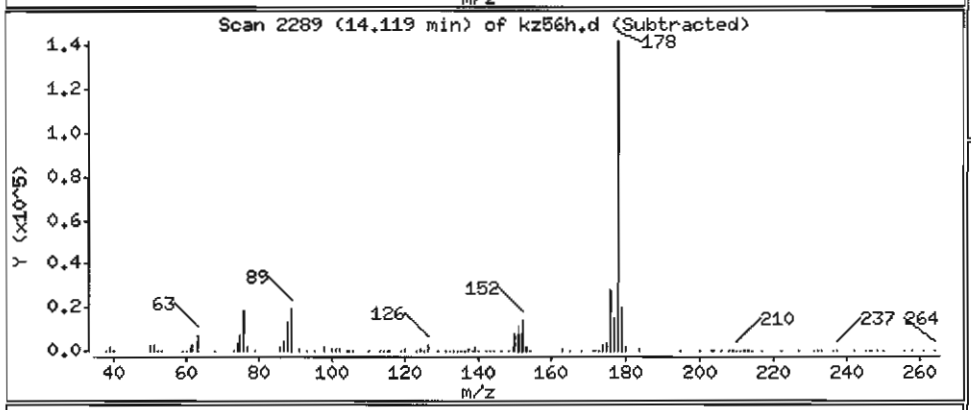
Column phase: ZB-5

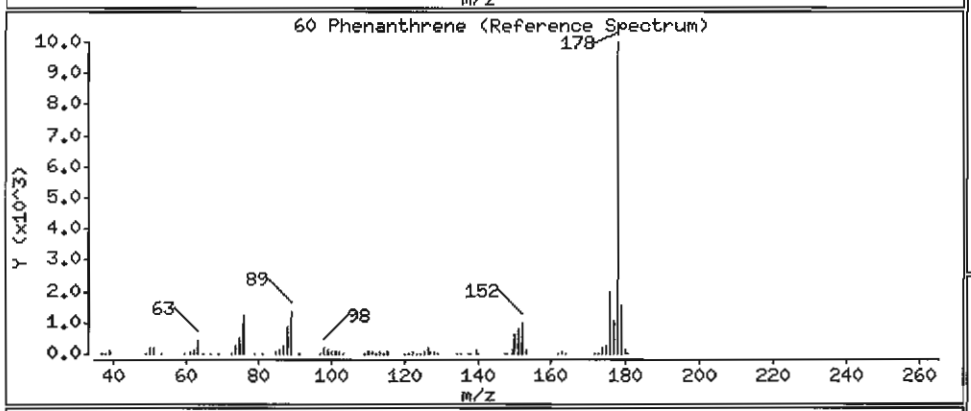
Column diameter: 0.32

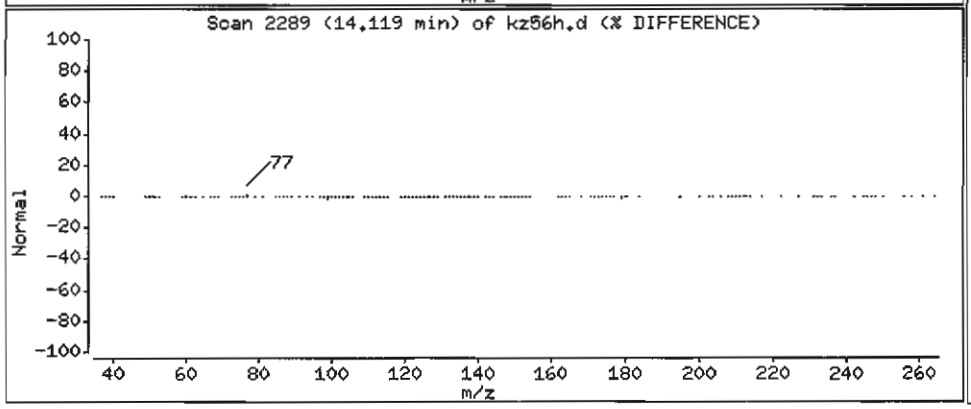
60 Phenanthrene

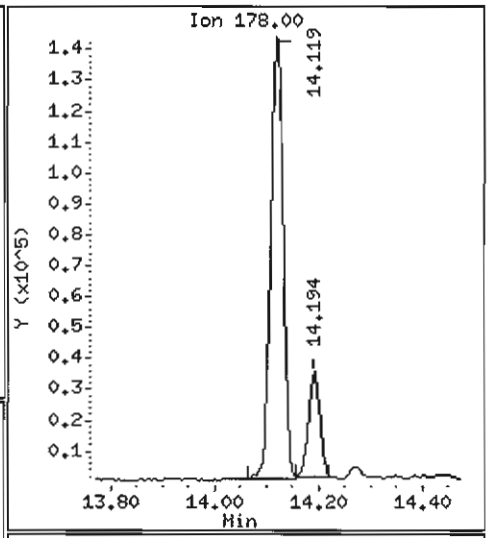
Concentration: 892.7 ug/kg

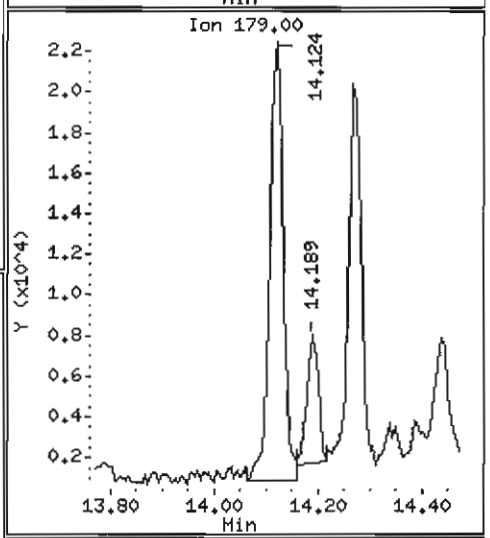


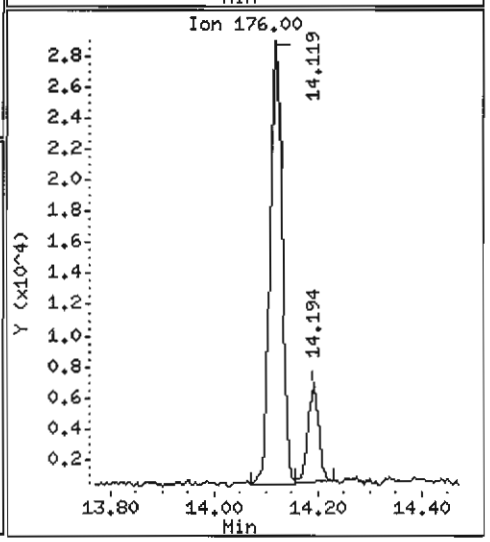












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

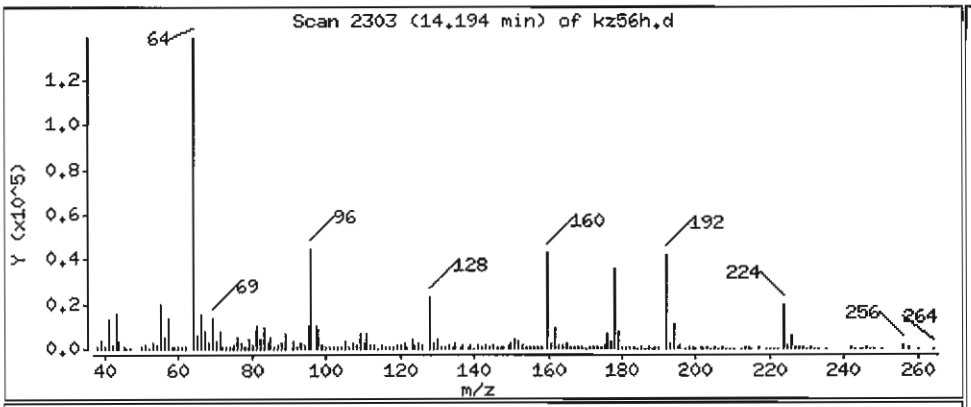
Operator: LJR/VTS

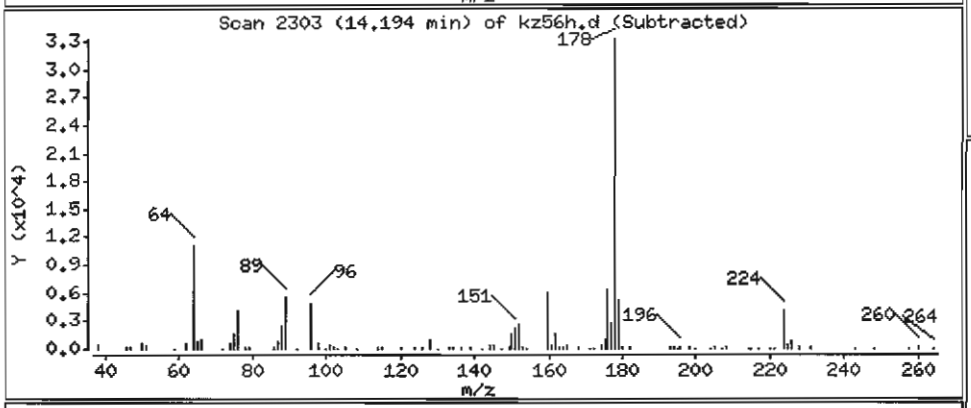
Column phase: ZB-5

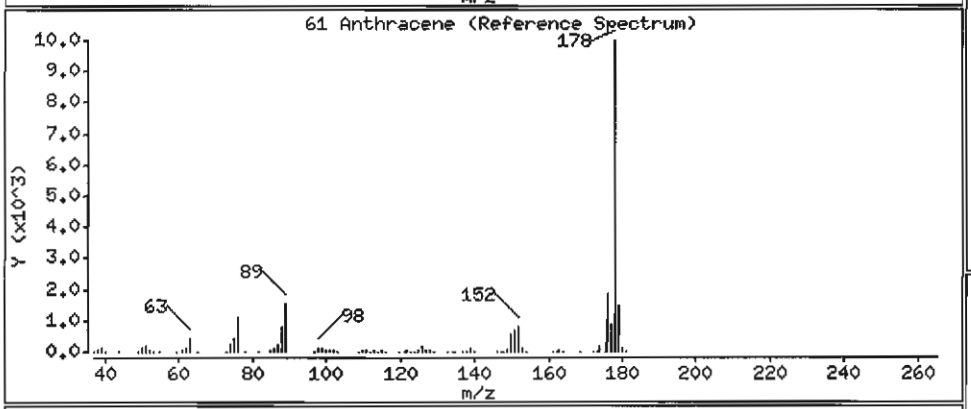
Column diameter: 0.32

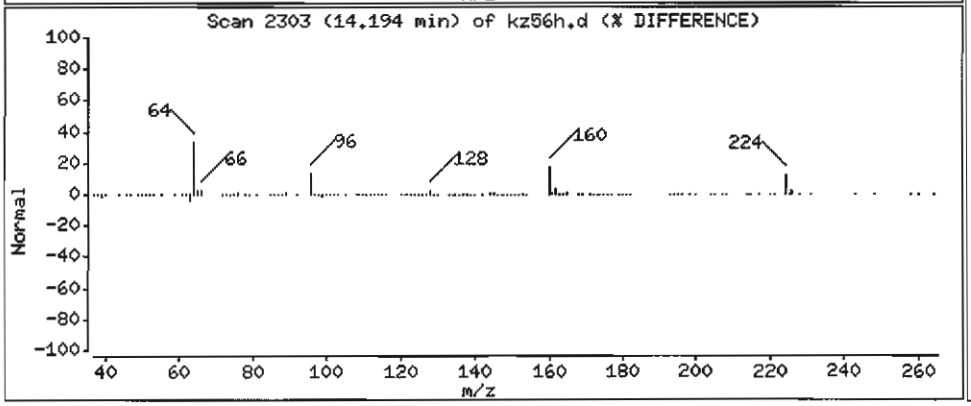
61 Anthracene

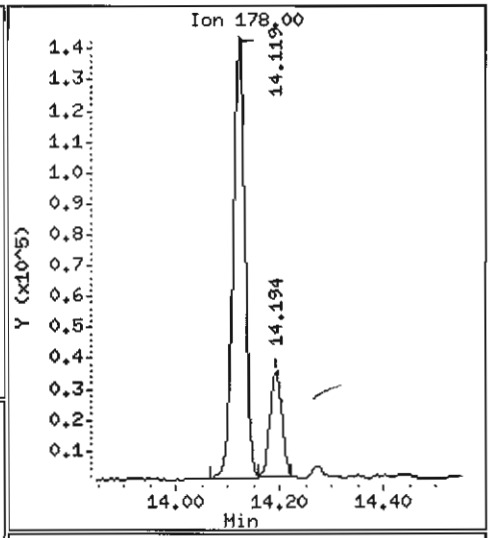
Concentration: 197.6 ug/kg

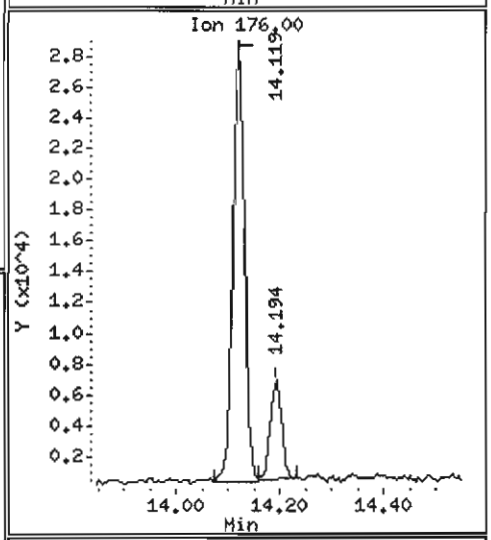


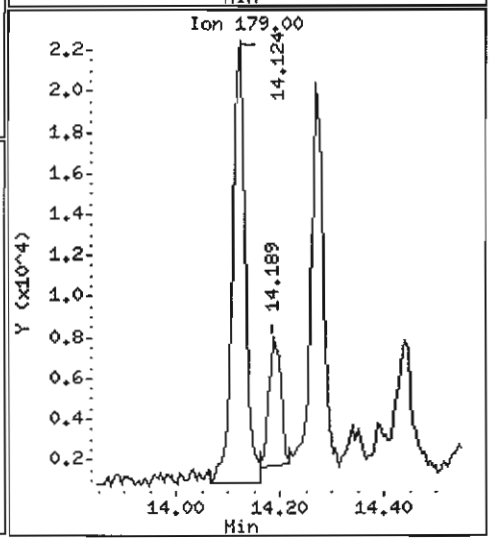












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

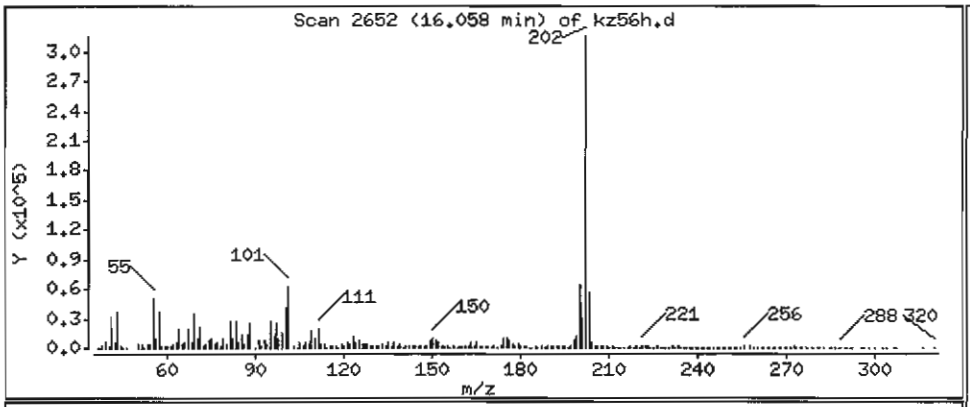
Operator: LJR/VTS

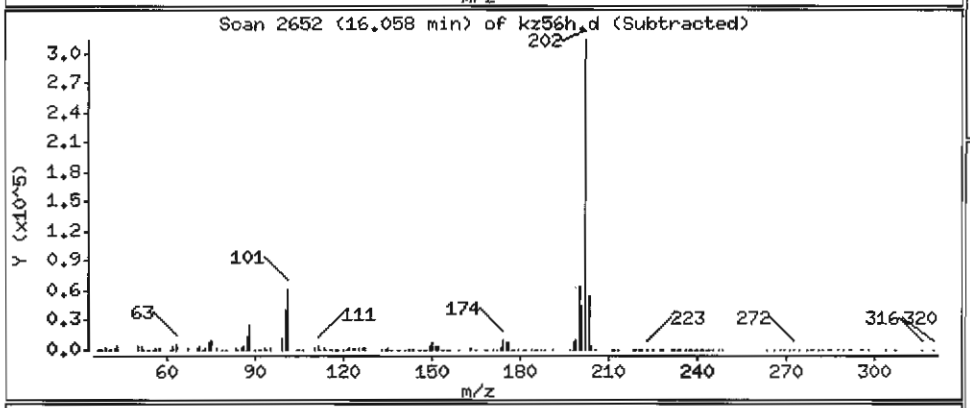
Column phase: ZB-5

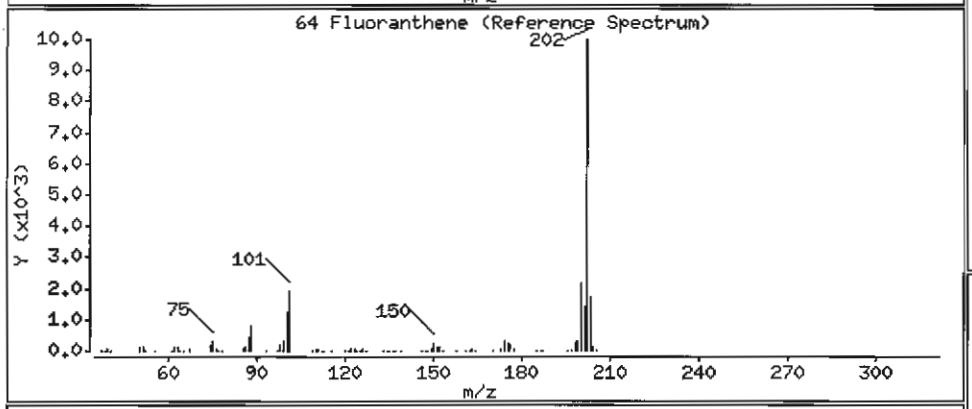
Column diameter: 0.32

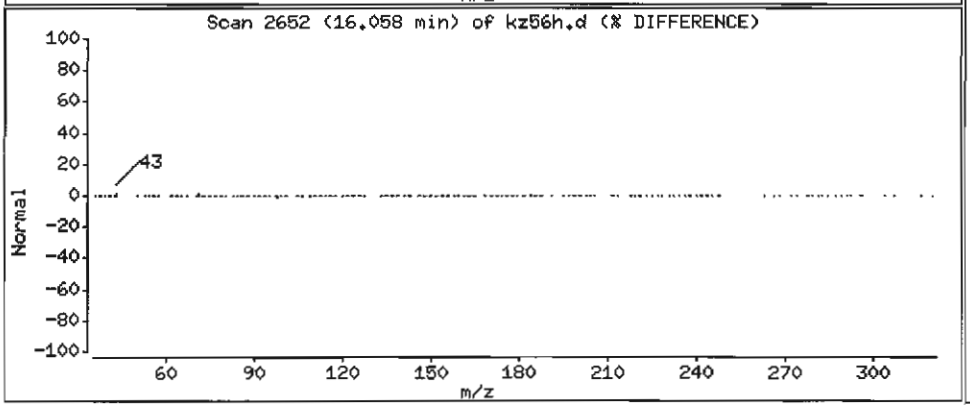
64 Fluoranthene

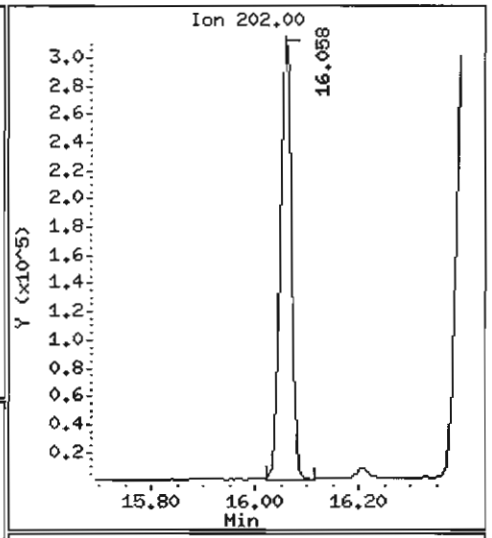
Concentration: 1914 ug/kg

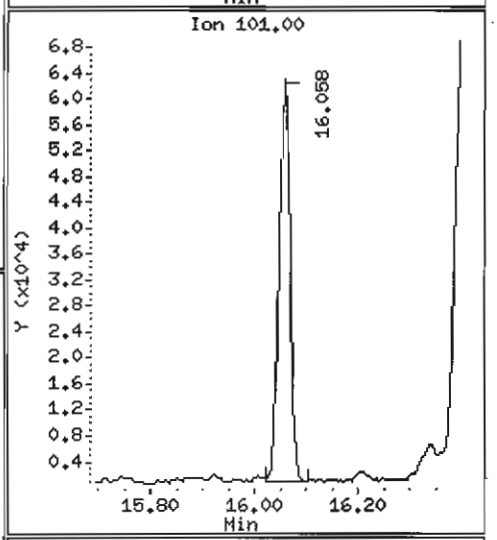


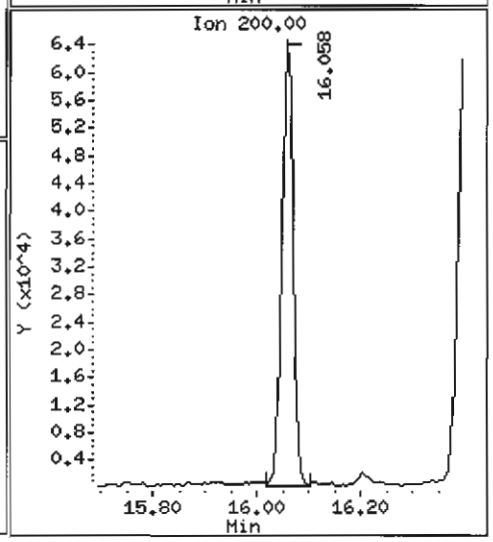












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

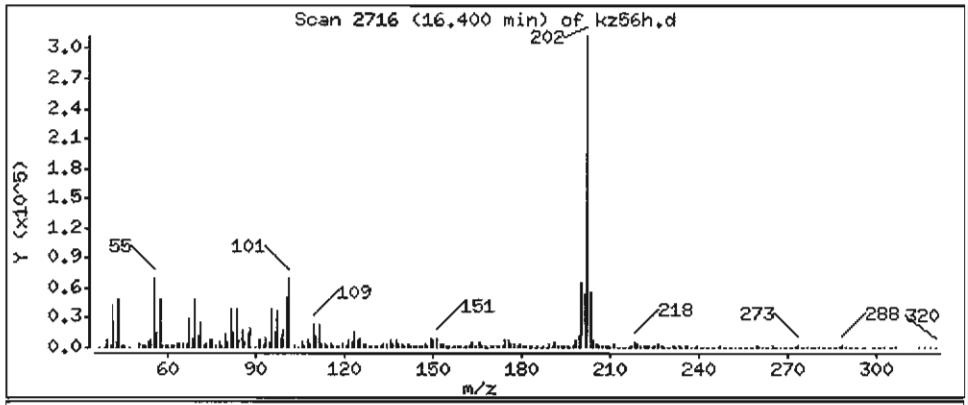
Operator: LJR/VTS

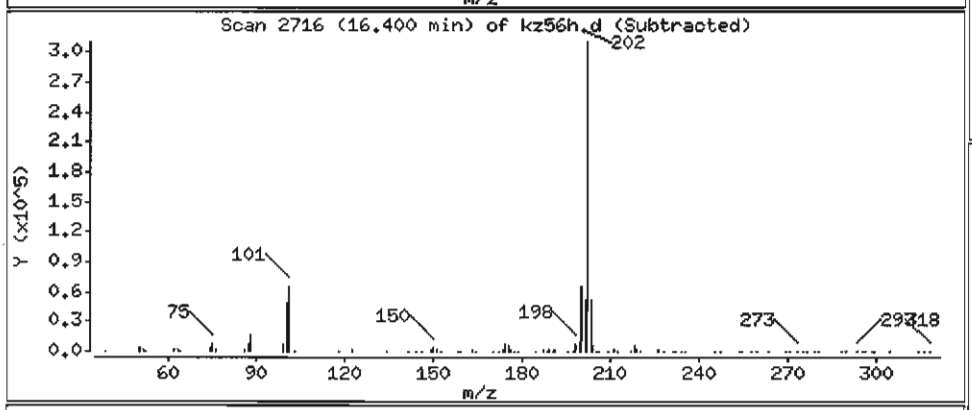
Column phase: ZB-5

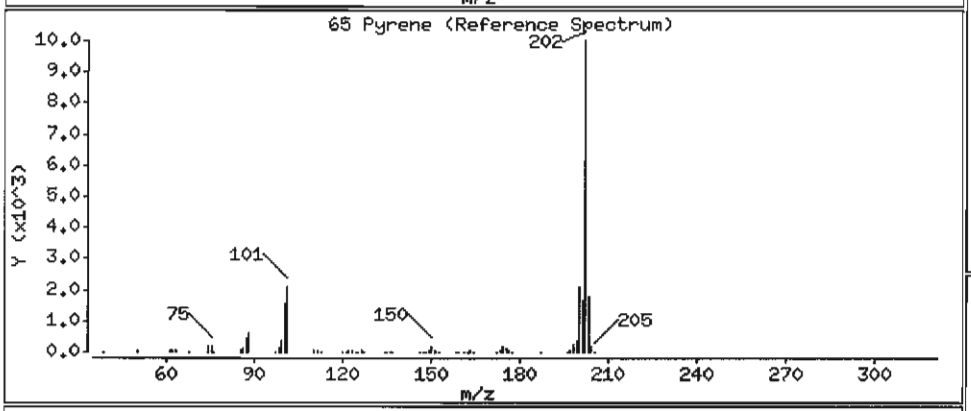
Column diameter: 0.32

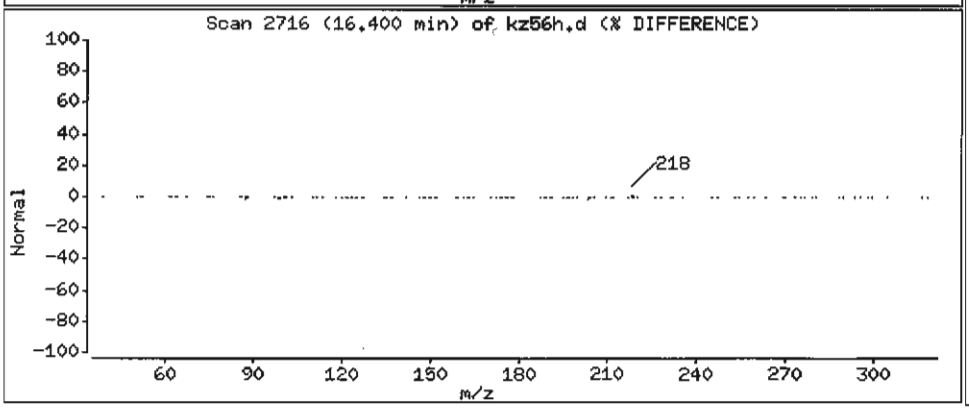
65 Pyrene

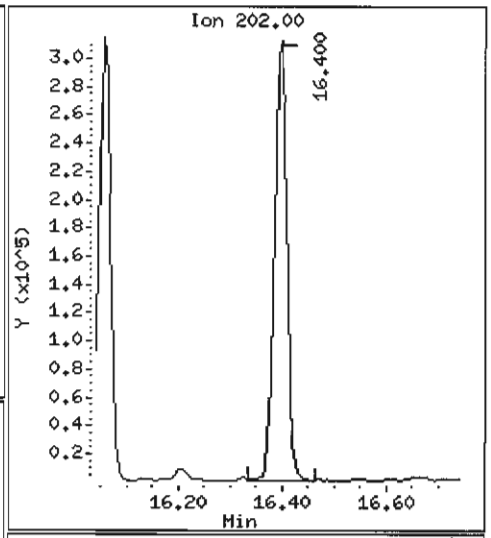
Concentration: 1903 ug/kg

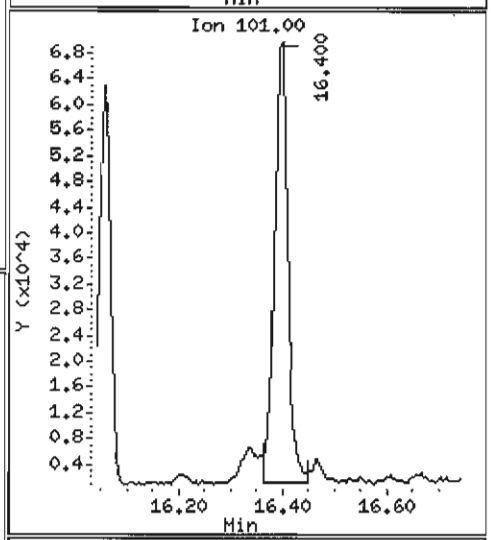


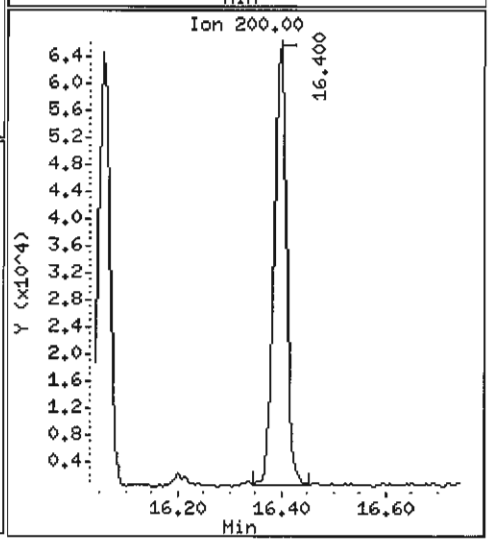












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

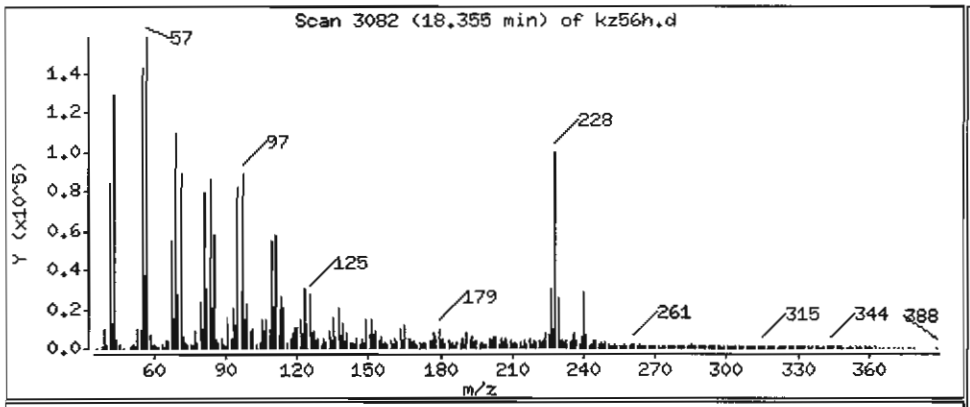
Operator: LJR/VTS

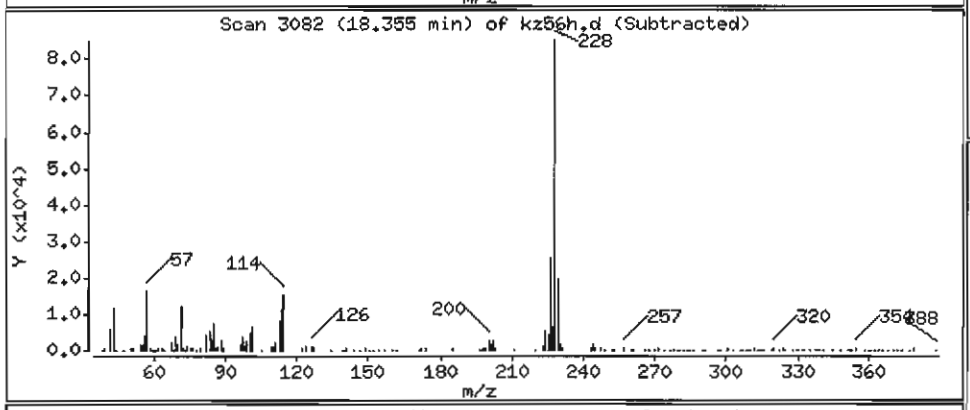
Column phase: ZB-5

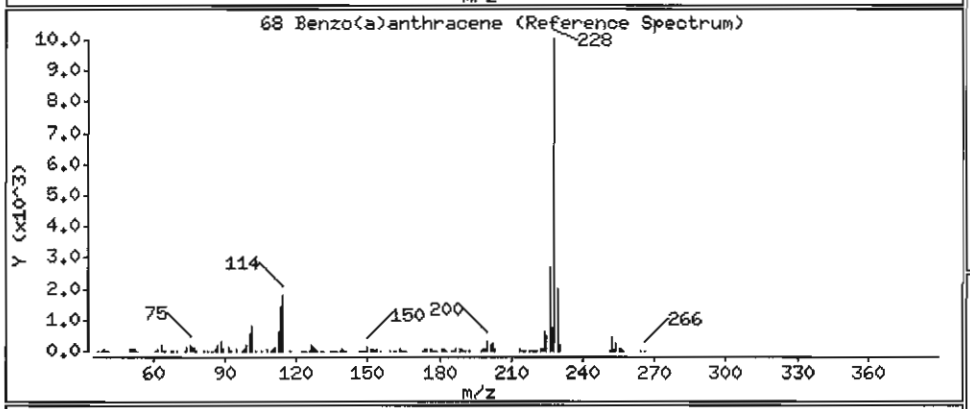
Column diameter: 0.32

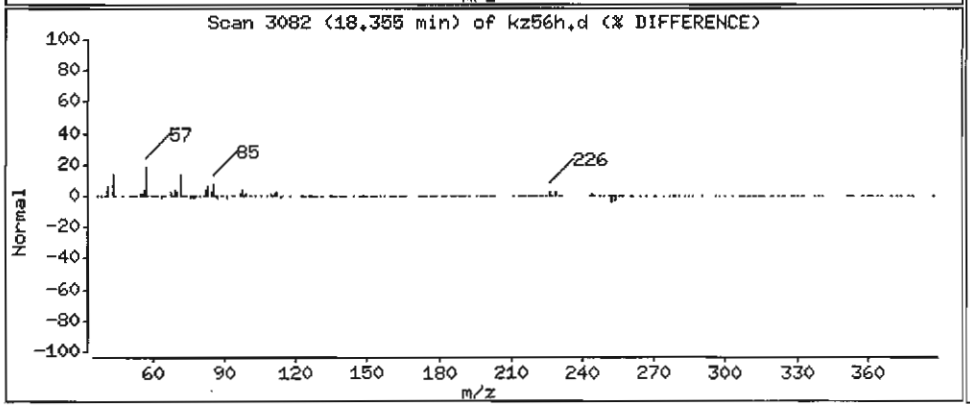
68 Benzo(a)anthracene

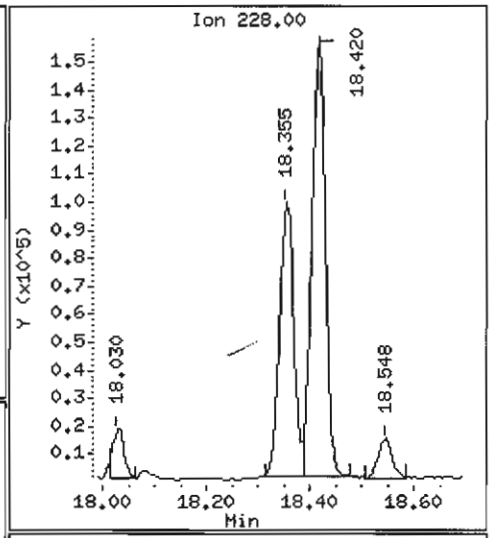
Concentration: 803.2 ug/kg

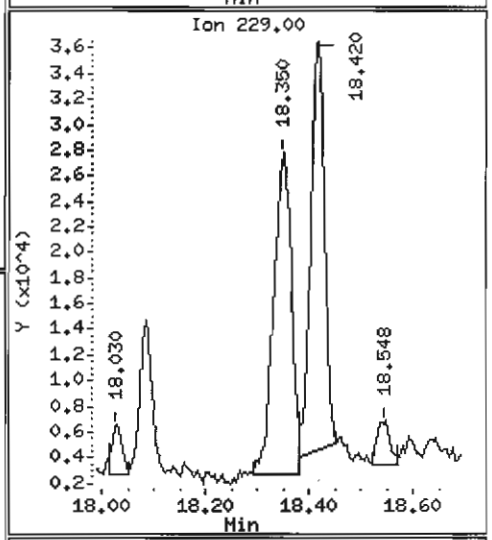


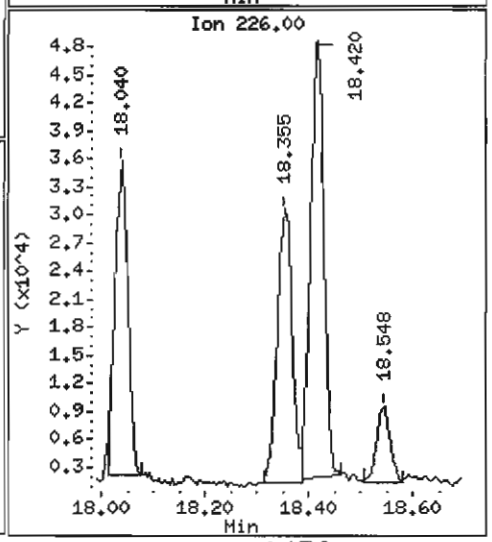












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

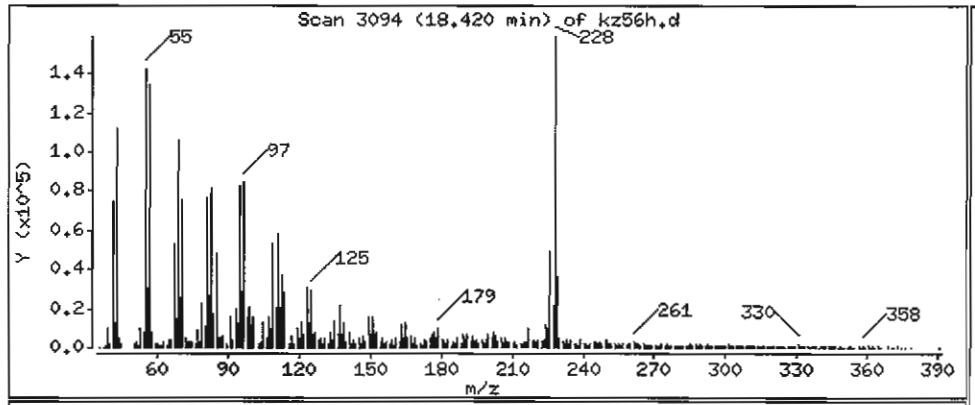
Operator: LJR/VTS

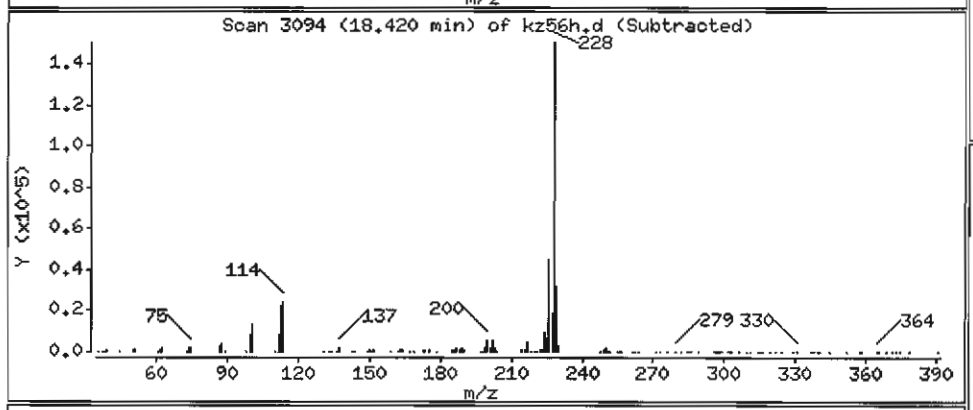
Column phase: ZB-5

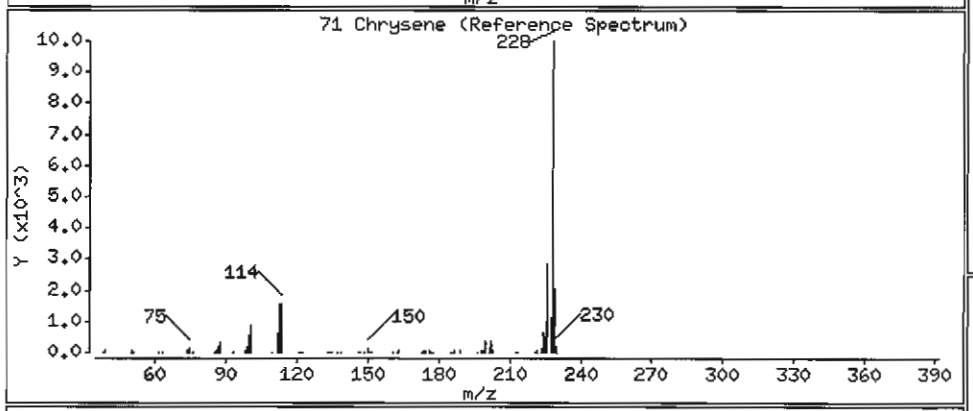
Column diameter: 0.32

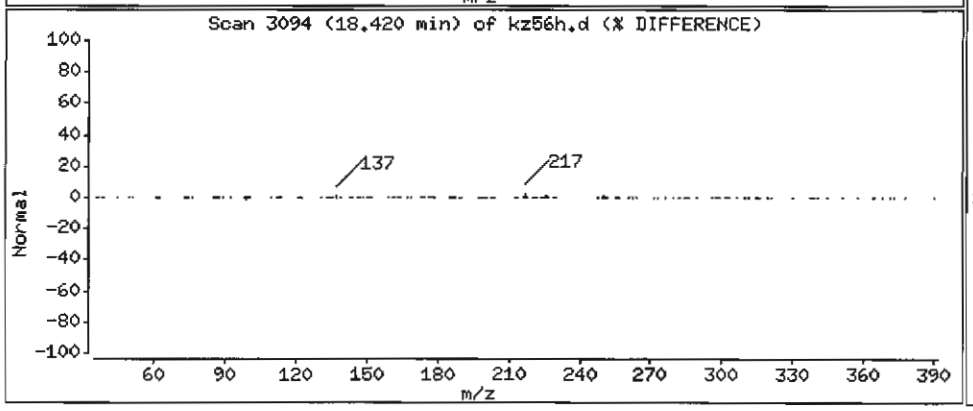
71 Chrysene

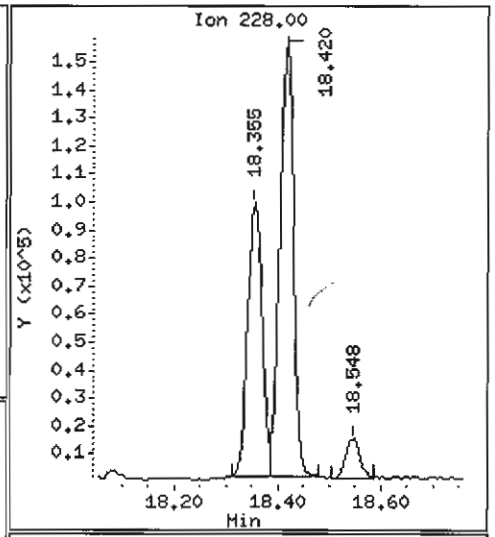
Concentration: 1196 ug/kg

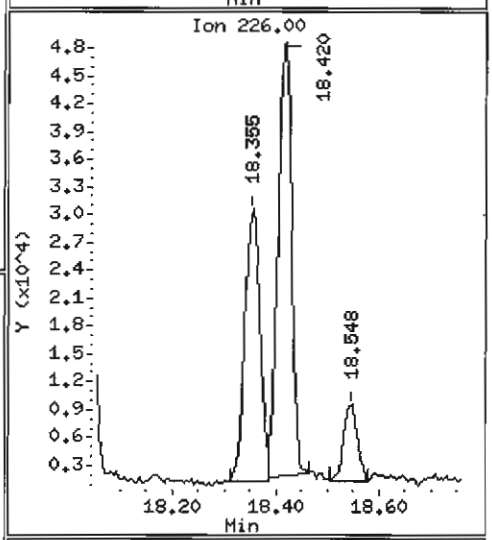


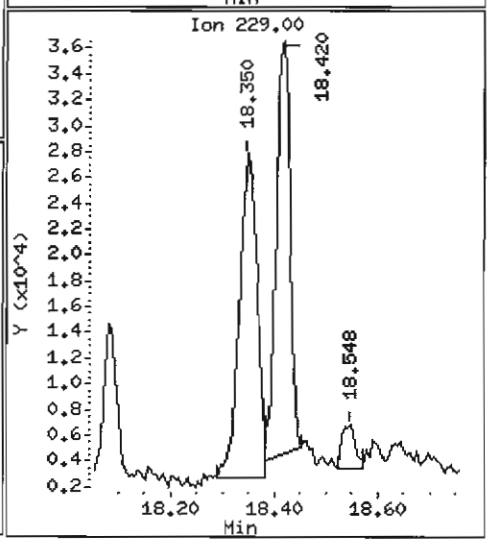












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

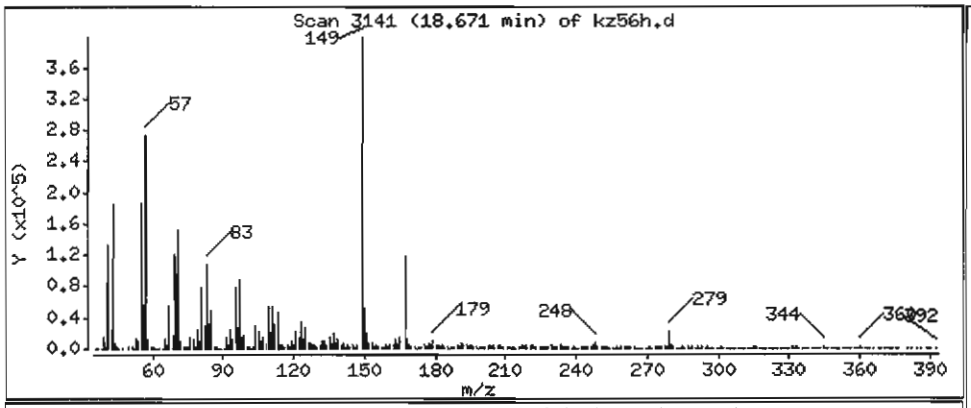
Operator: LJR/VTS

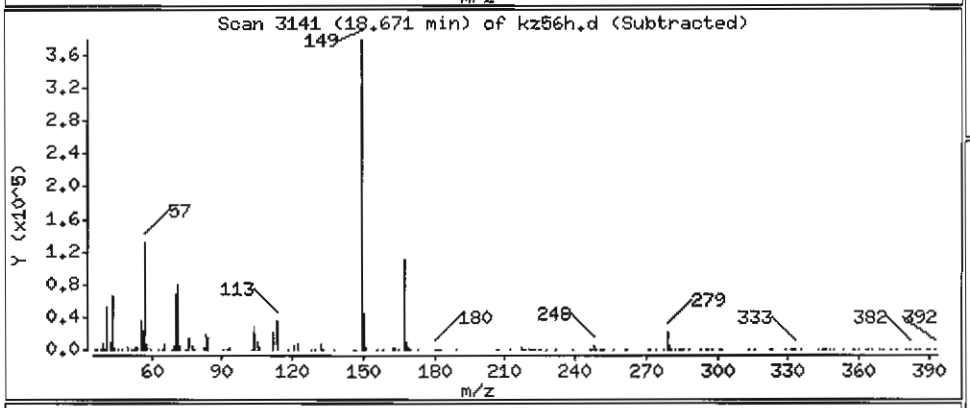
Column phase: ZB-5

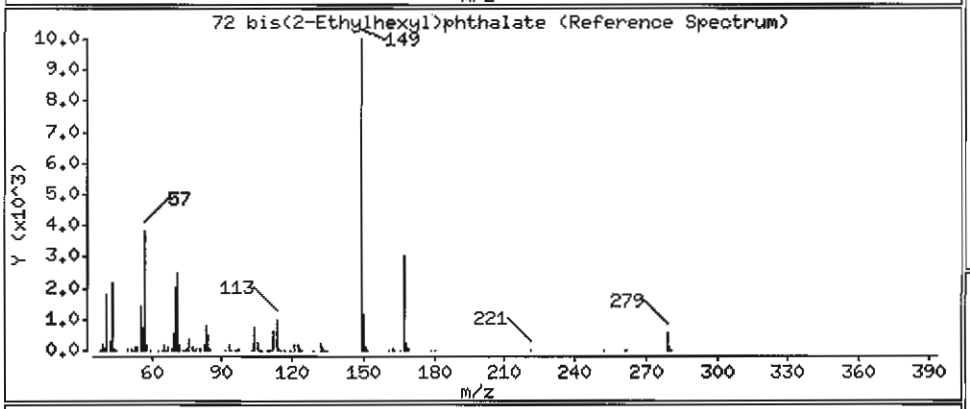
Column diameter: 0.32

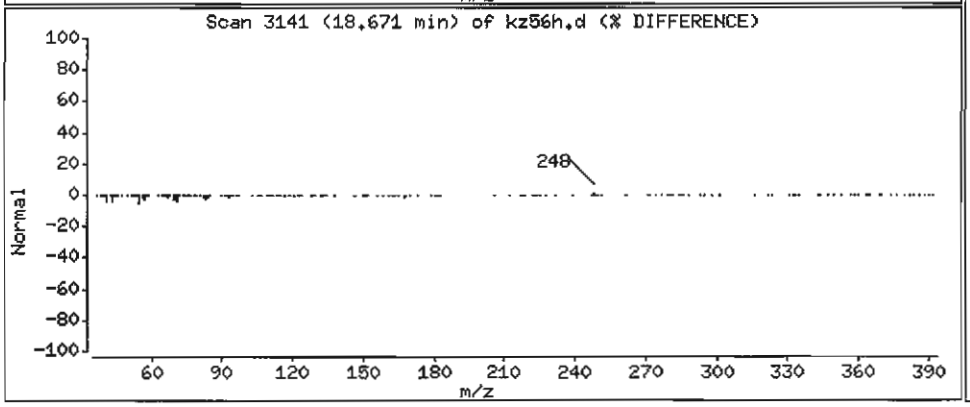
72 bis(2-Ethylhexyl)phthalate

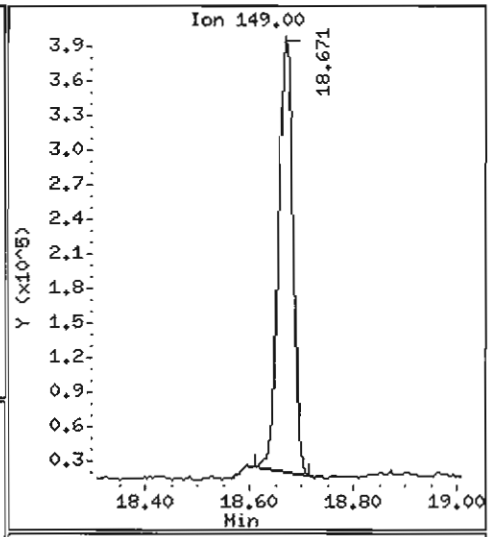
Concentration: 4337 ug/kg

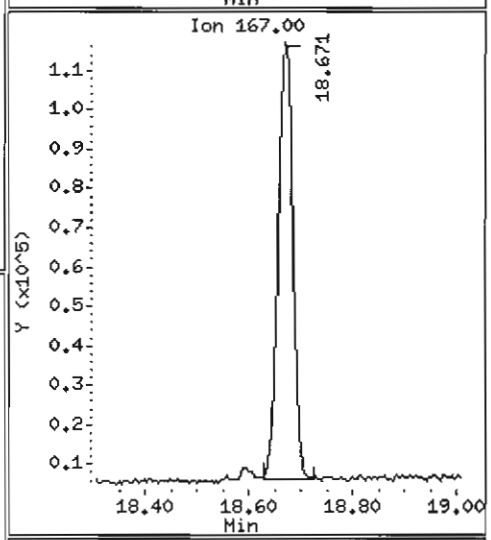


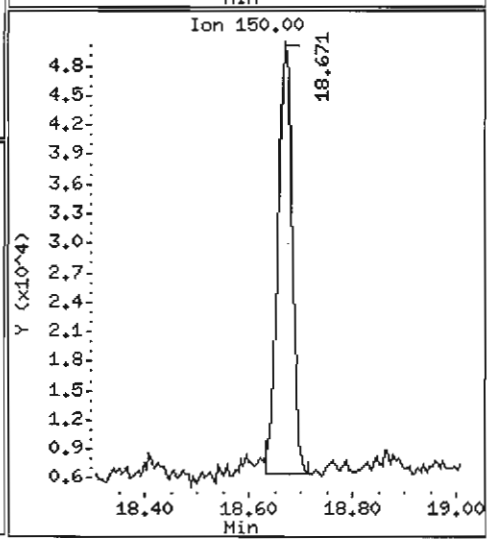












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

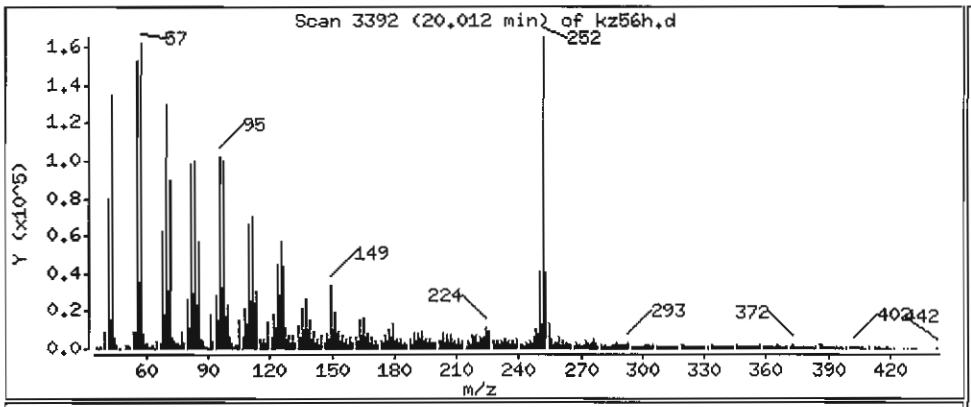
Operator: LJR/WTS

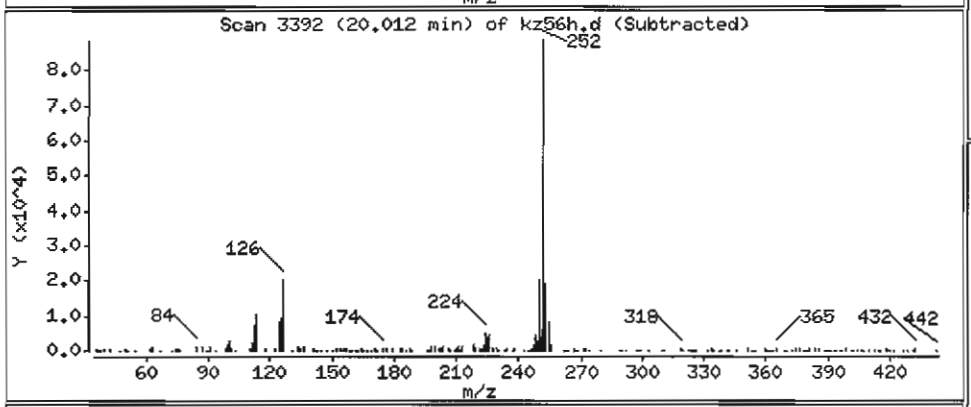
Column phase: ZB-5

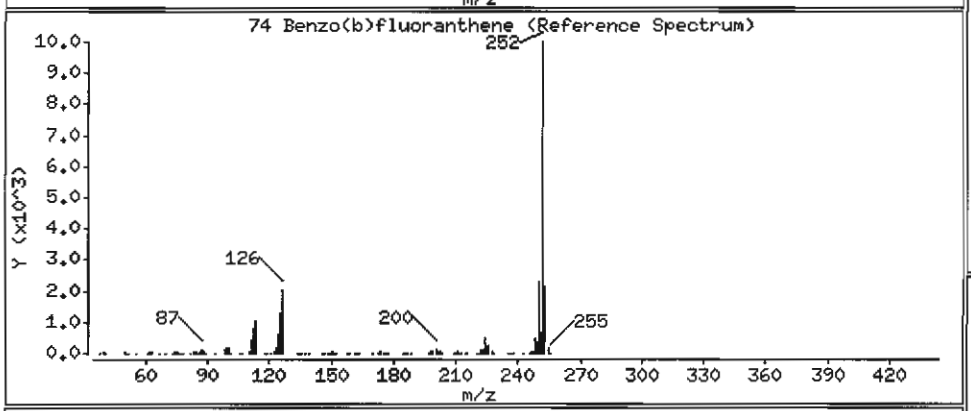
Column diameter: 0.32

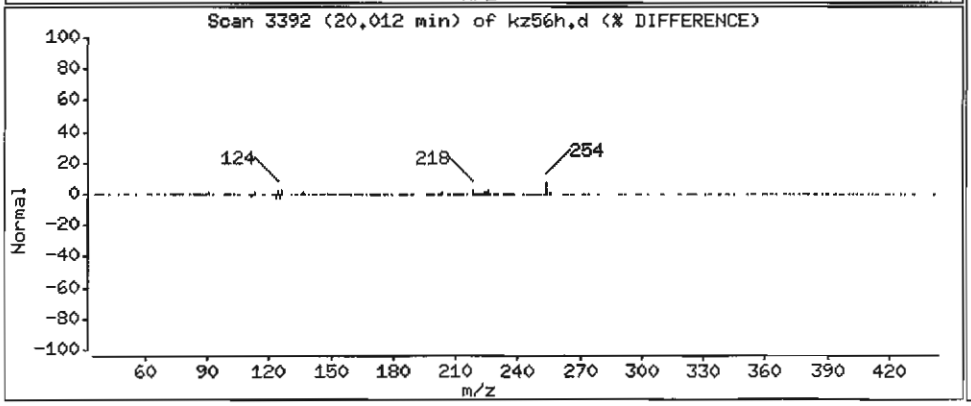
74 Benzo(b)fluoranthene

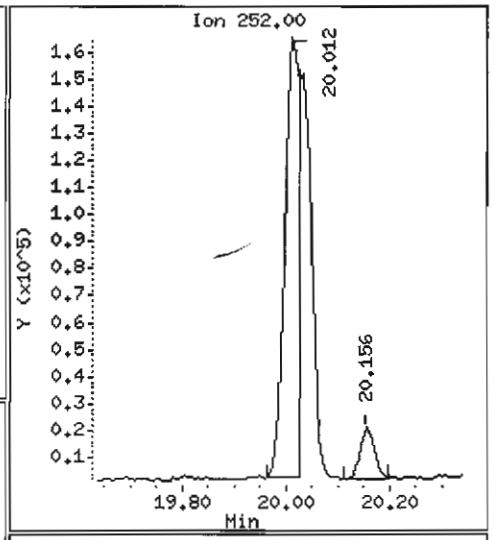
Concentration: 1430 ug/kg

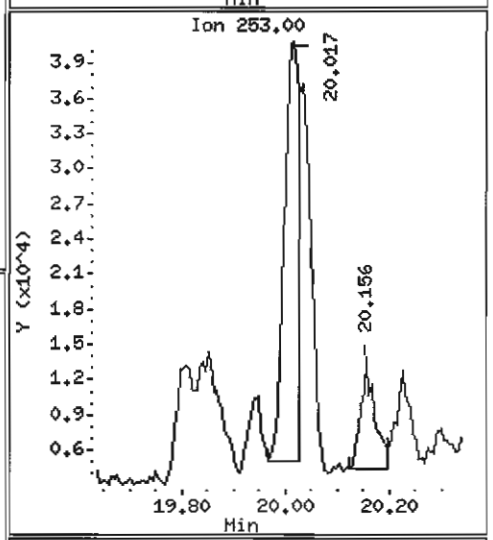


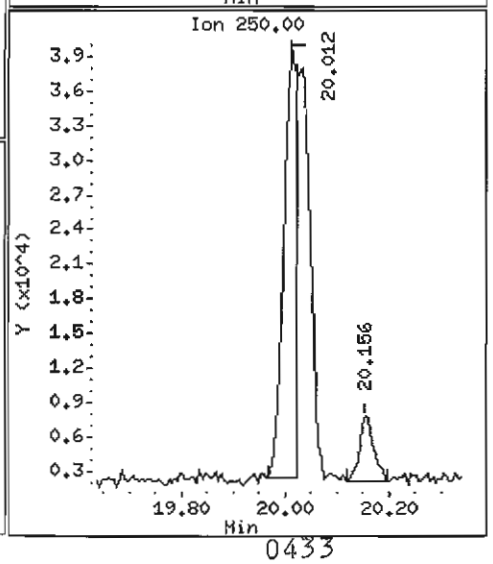












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

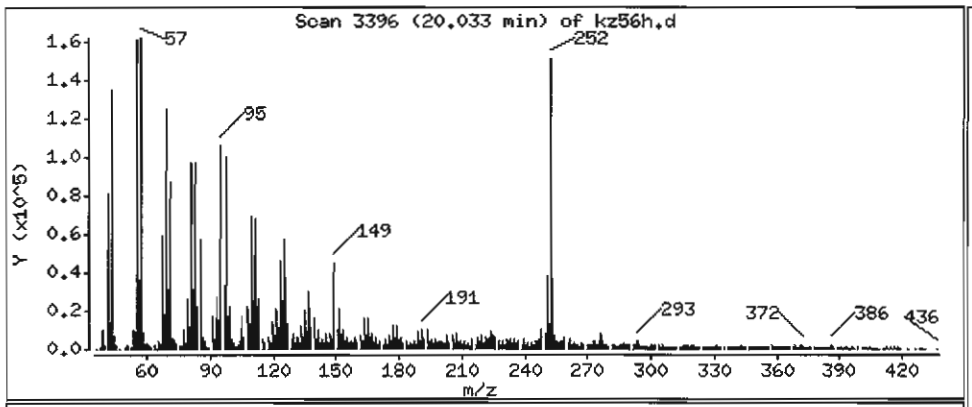
Operator: LJR/VTS

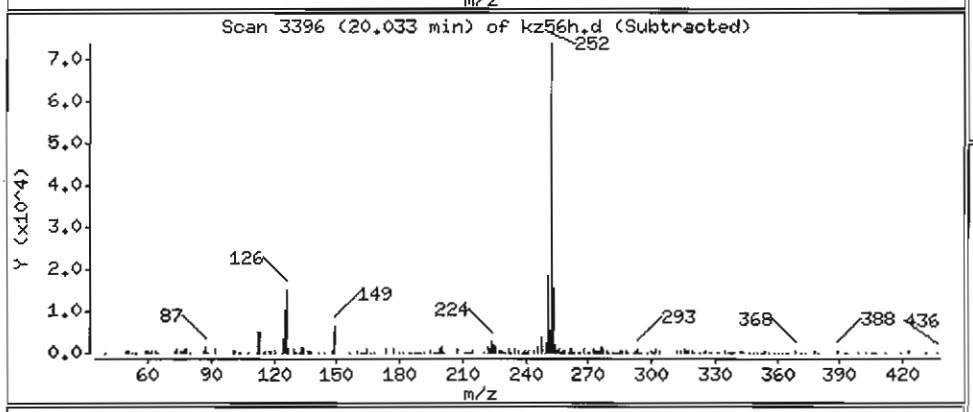
Column phase: ZB-5

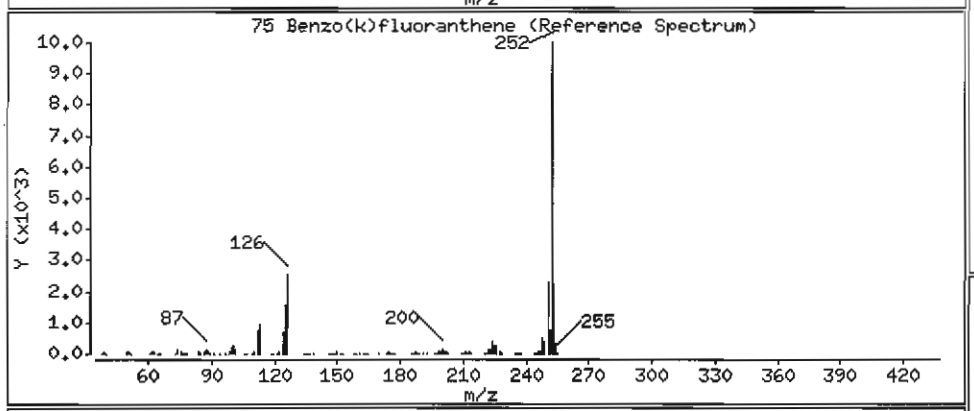
Column diameter: 0.32

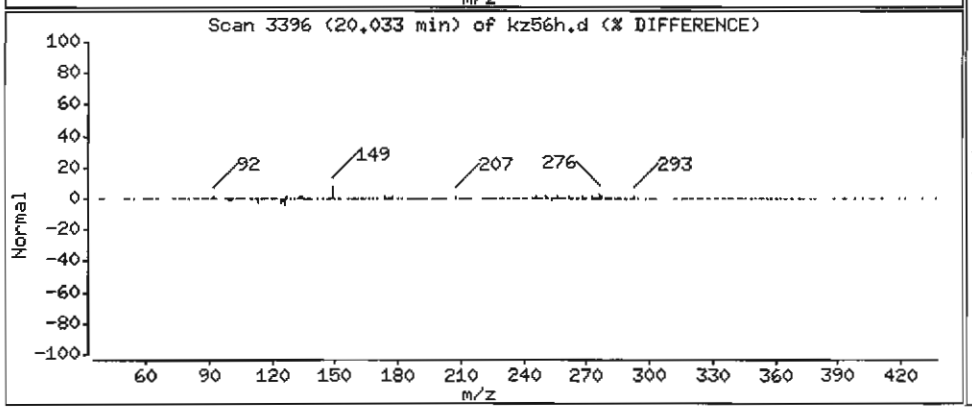
75 Benzo(k)fluoranthene

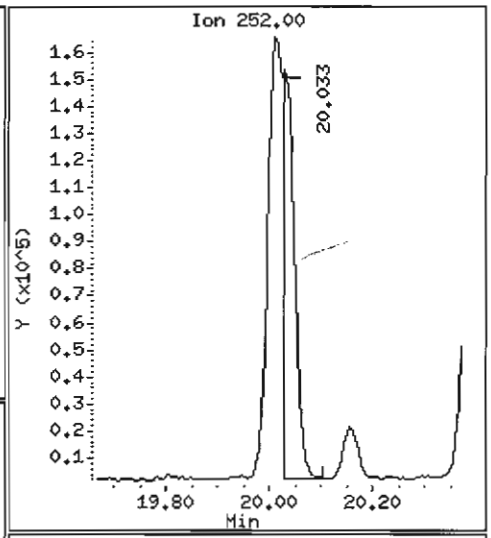
Concentration: 1068 ug/kg

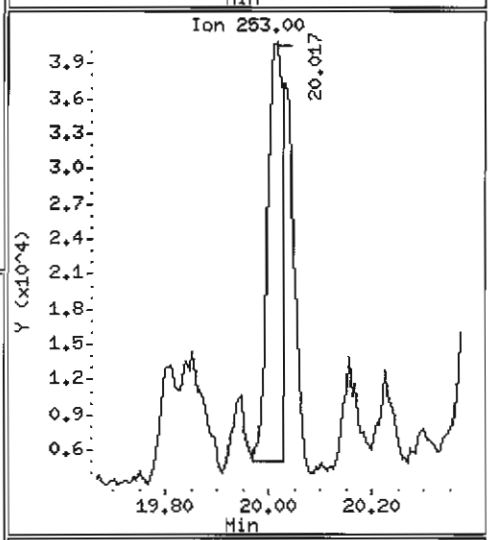


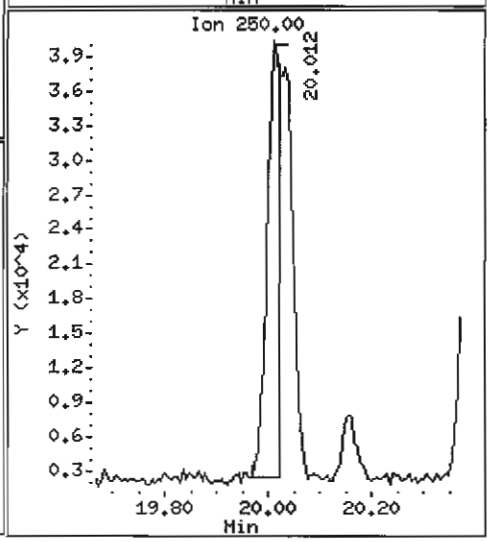












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

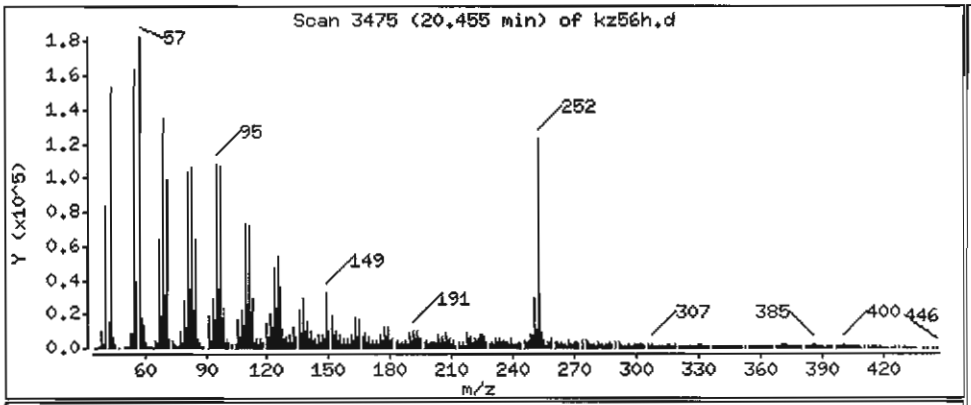
Operator: LJR/VTS

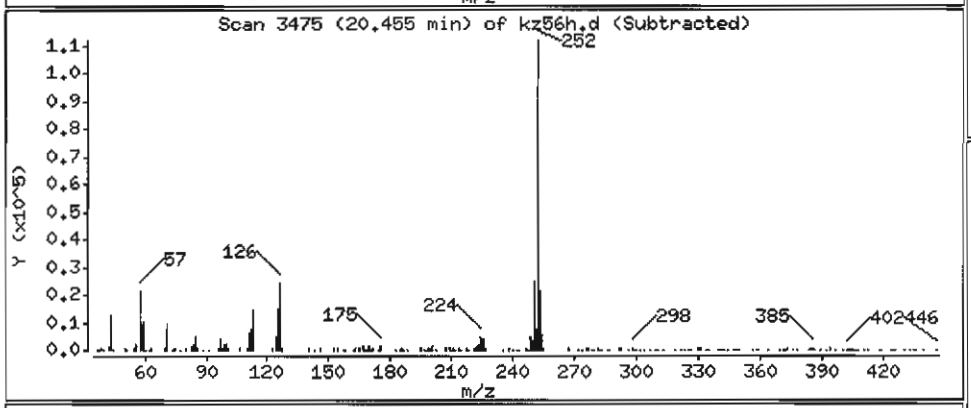
Column phase: ZB-5

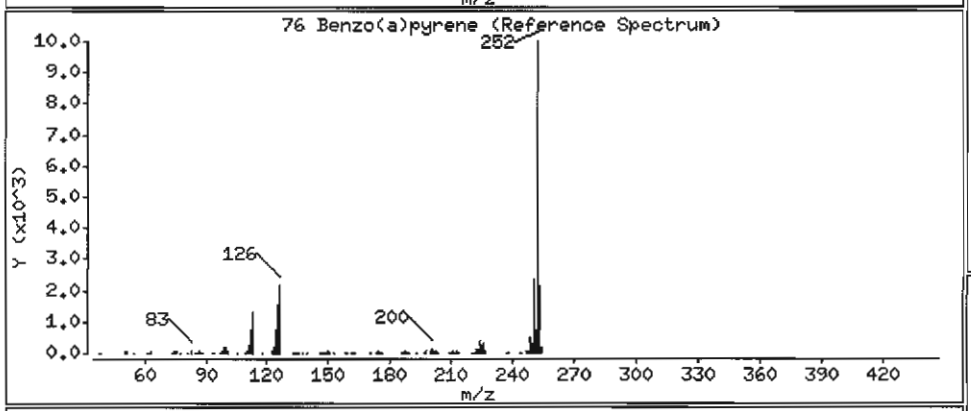
Column diameter: 0.32

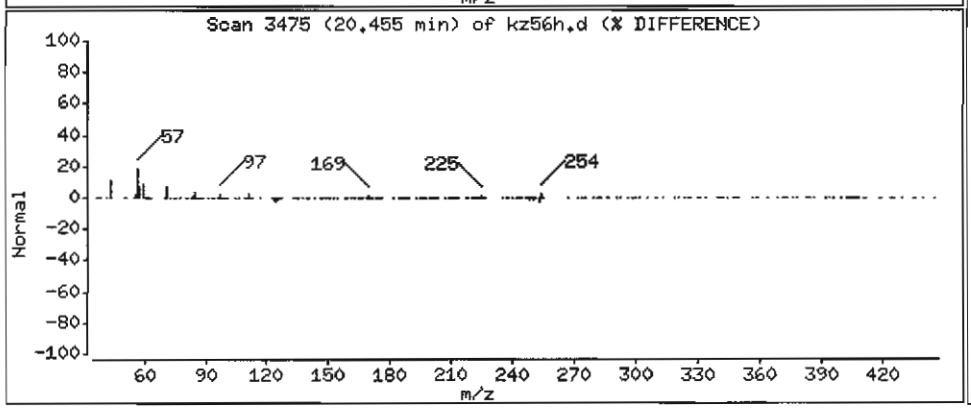
76 Benzo(a)pyrene

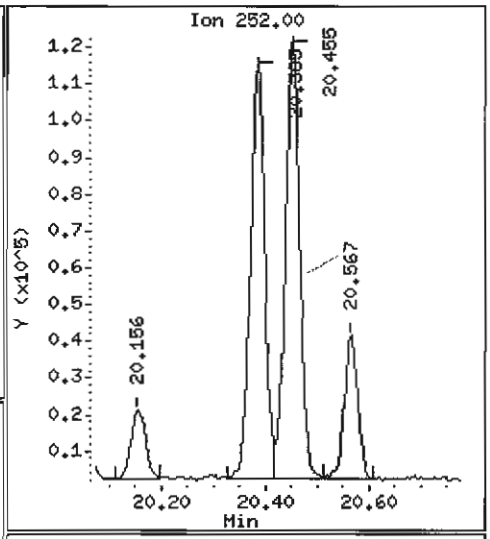
Concentration: 1009 ug/kg

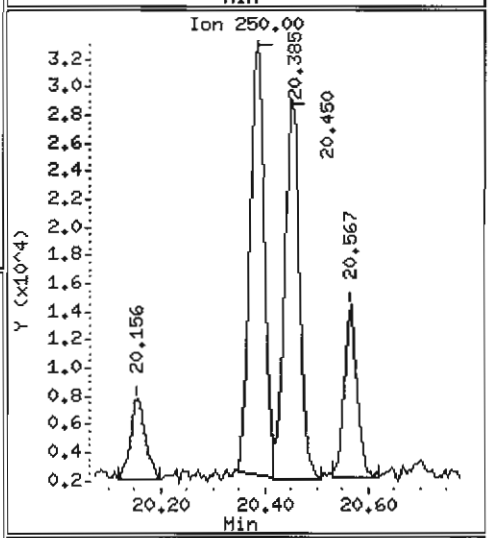


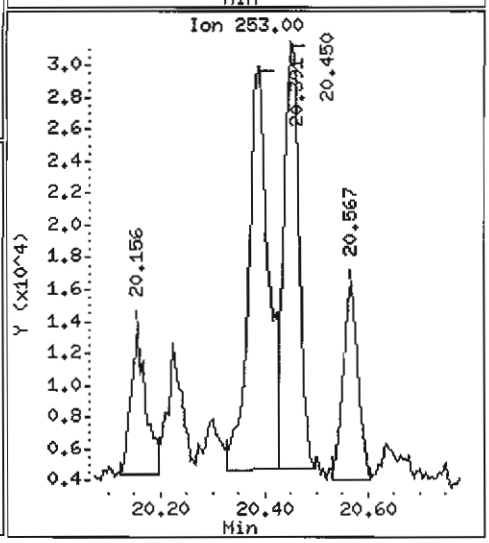












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

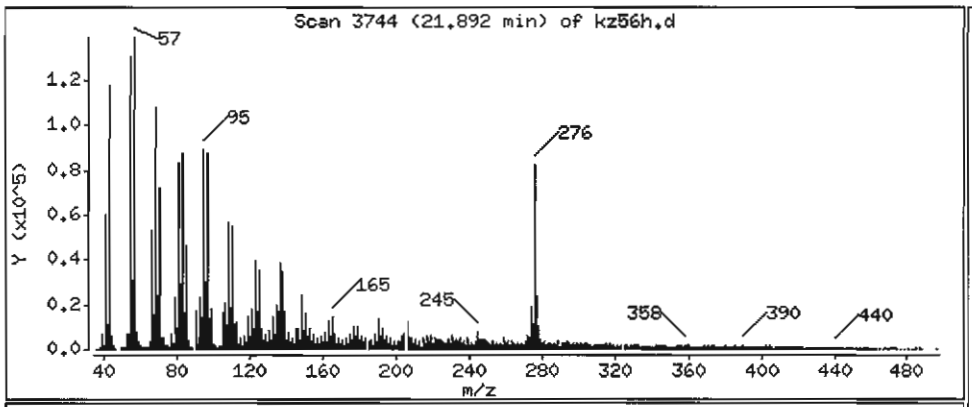
Operator: LJR/VTS

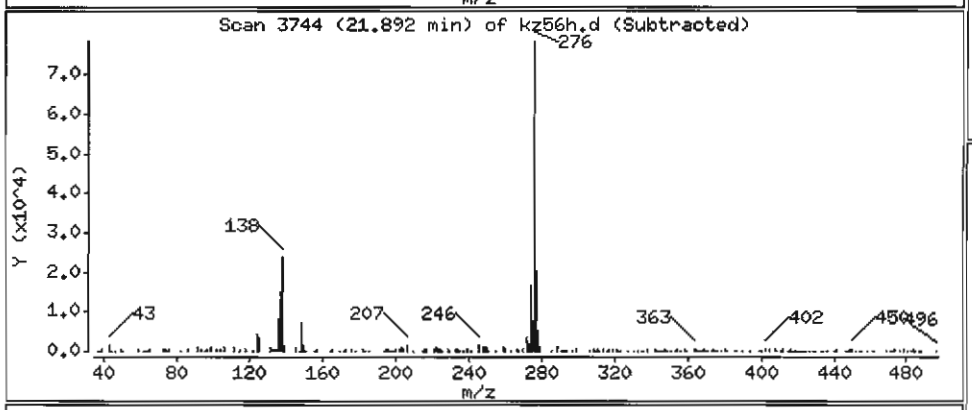
Column phase: ZB-5

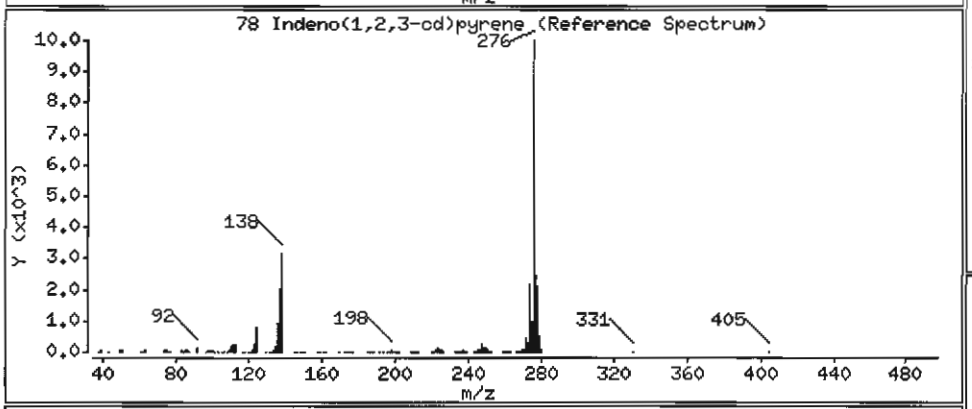
Column diameter: 0.32

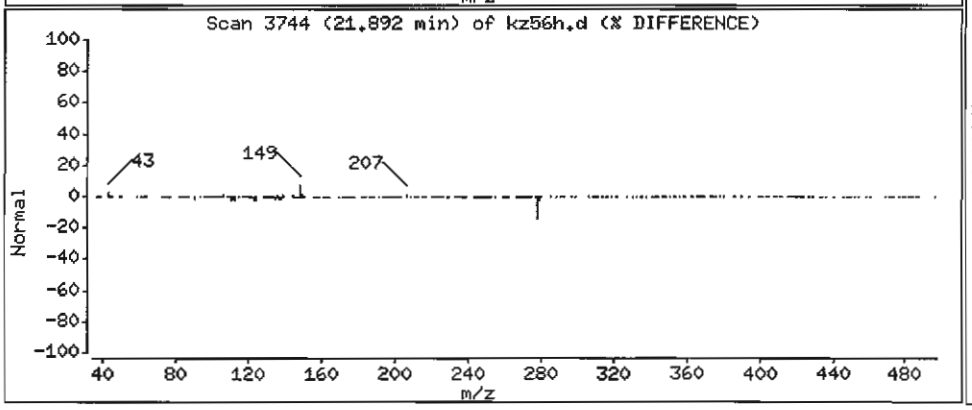
78 Indeno(1,2,3-cd)pyrene

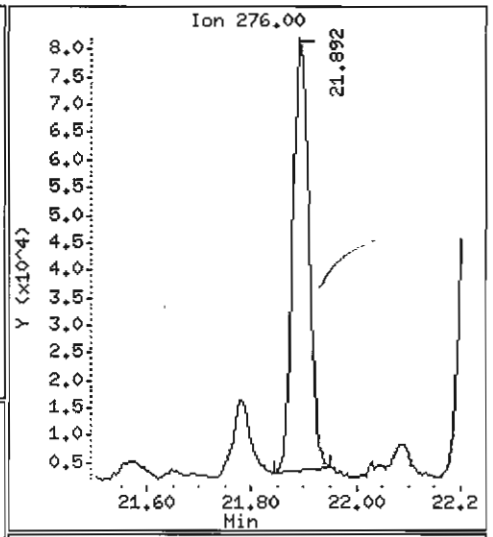
Concentration: 602.3 ug/kg

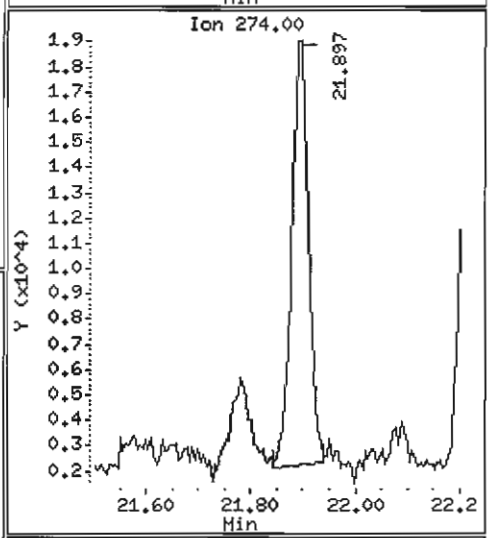


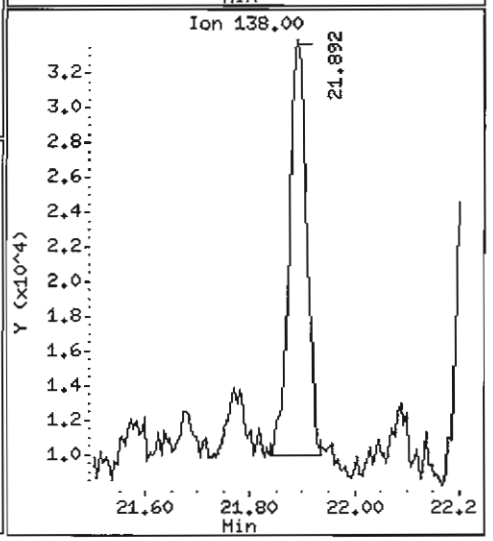












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

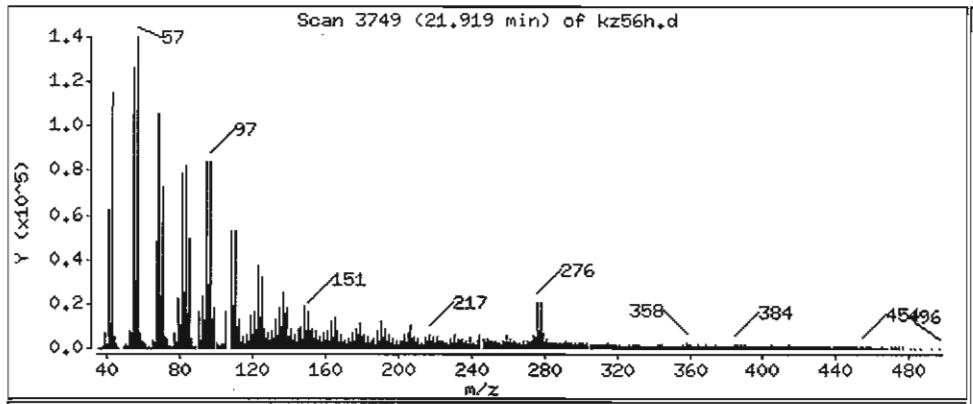
Operator: LJR/VTS

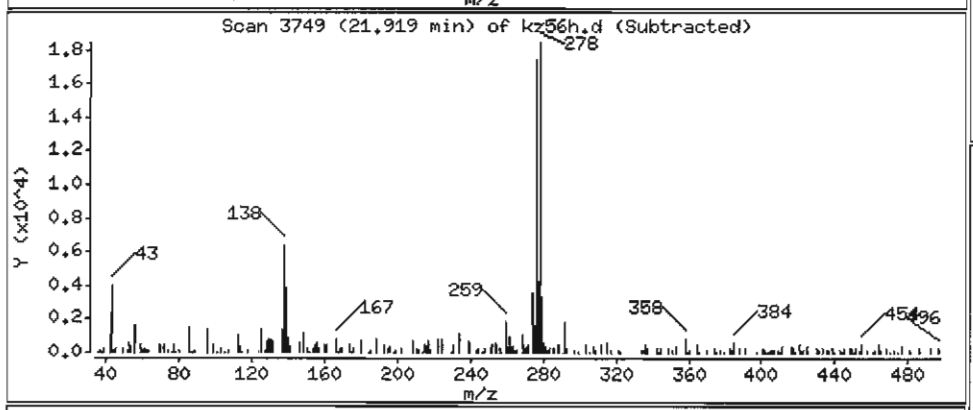
Column phase: ZB-5

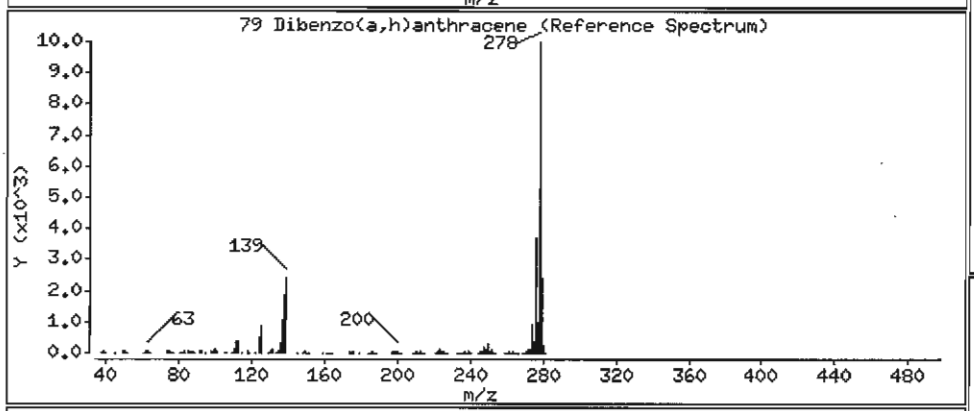
Column diameter: 0.32

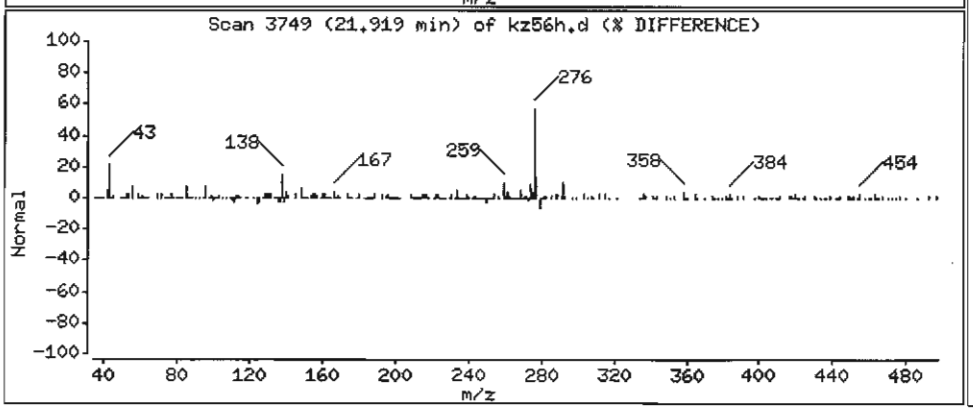
79 Dibenzo(a,h)anthracene

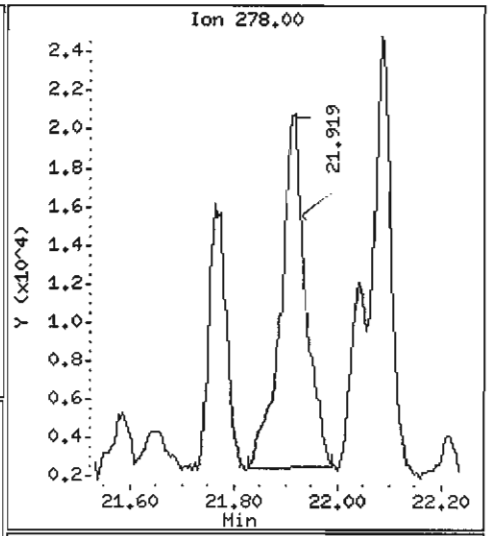
Concentration: 271.2 ug/kg

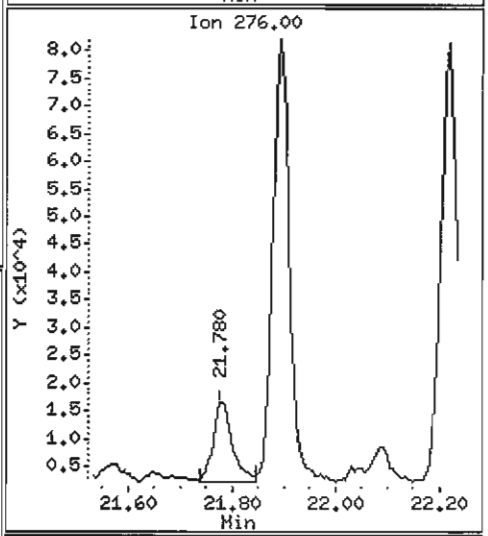


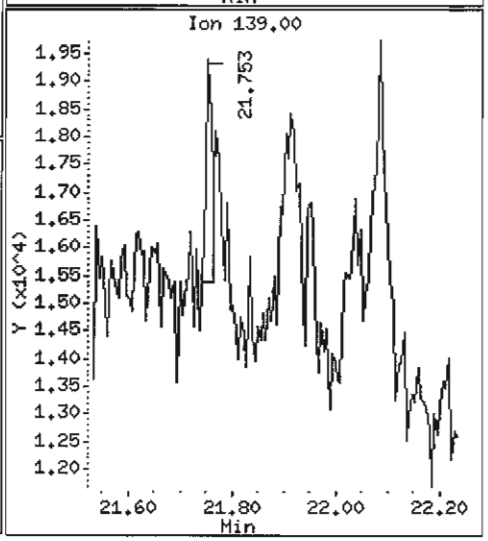












Data File: /chem1/nt6.i/20070526.b/kz56h.d

Date : 26-MAY-2007 17:10

Client ID: Y3-RC08-S

Instrument: nt6.i

Sample Info: KZ56H,3

Volume Injected (uL): 1.0

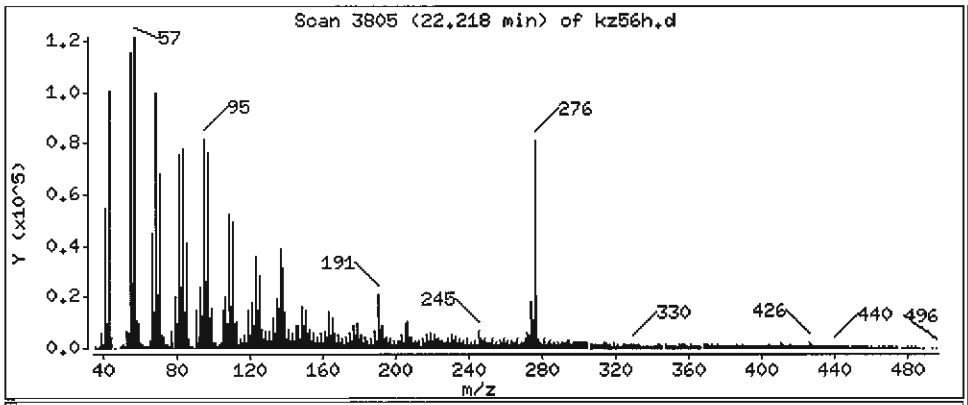
Operator: LJR/VTS

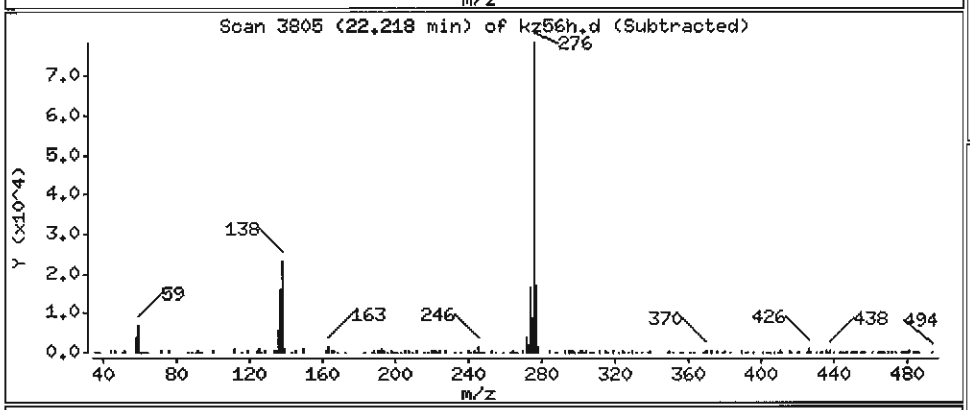
Column phase: ZB-5

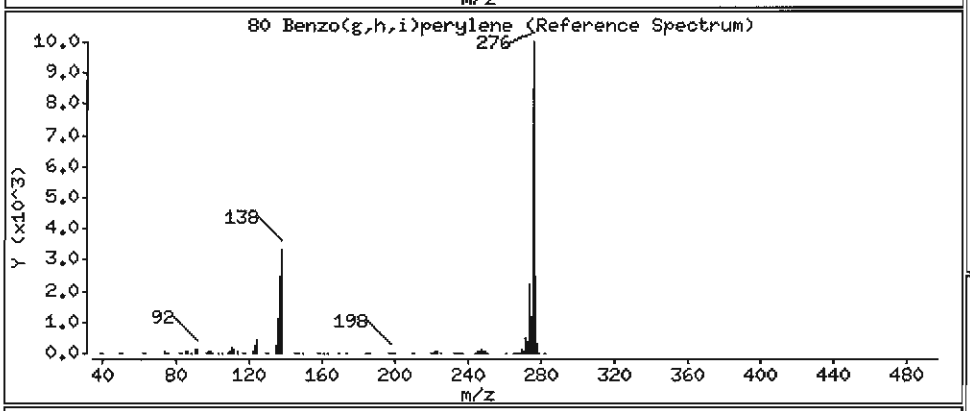
Column diameter: 0.32

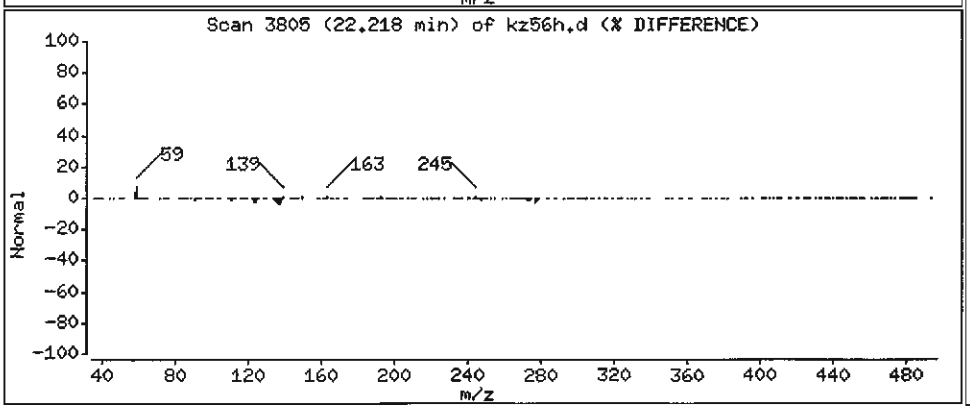
80 Benzo(g,h,i)perylene

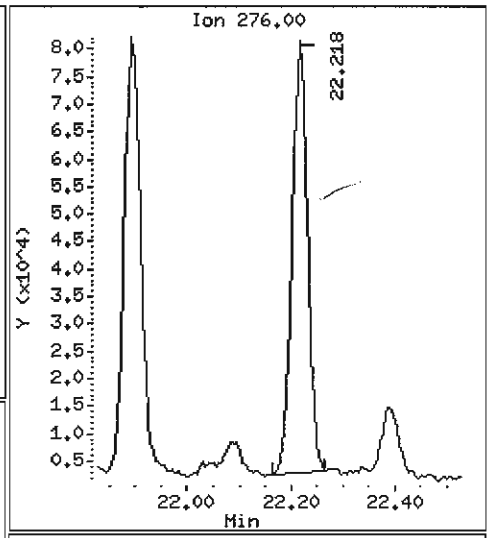
Concentration: 646.2 ug/kg

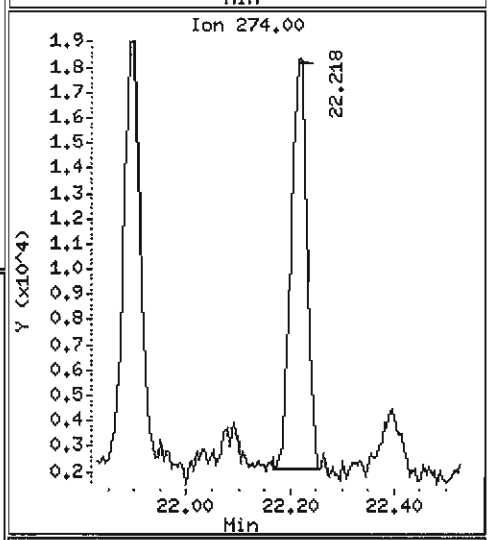


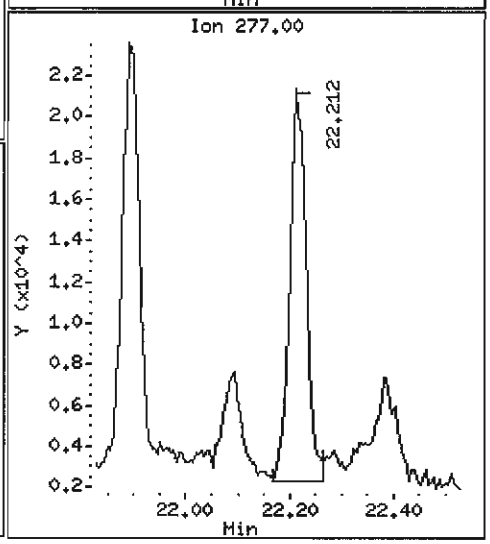












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC15-S
SAMPLE

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 12:05
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.0%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	110	220
91-57-6	2-Methylnaphthalene	110	93 J
208-96-8	Acenaphthylene	110	< 110 U
83-32-9	Acenaphthene	110	100 J
132-64-9	Dibenzofuran	110	< 110 U
86-73-7	Fluorene	110	90 J
85-01-8	Phenanthrene	110	1,000
120-12-7	Anthracene	110	240
206-44-0	Fluoranthene	110	2,400
129-00-0	Pyrene	110	2,300
56-55-3	Benzo(a)anthracene	110	920
117-81-7	bis(2-Ethylhexyl)phthalate	110	5,200 E
218-01-9	Chrysene	110	1,400
205-99-2	Benzo(b)fluoranthene	110	1,700
207-08-9	Benzo(k)fluoranthene	110	1,400
50-32-8	Benzo(a)pyrene	110	1,100
193-39-5	Indeno(1,2,3-cd)pyrene	110	420
53-70-3	Dibenz(a,h)anthracene	110	93 J
191-24-2	Benzo(g,h,i)perylene	110	440

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.6%	2-Fluorobiphenyl	72.0%
d14-p-Terphenyl	74.8%	d4-1,2-Dichlorobenzene	69.6%
d5-Phenol	74.6%	2-Fluorophenol	62.2%
2,4,6-Tribromophenol	81.6%	d4-2-Chlorophenol	73.2%

FORM I

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56i.d
Lab Smp Id: KZ56I — Client Smp ID: Y3-RC15-S
Inj Date : 29-MAY-2007 12:05
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56I,3
Misc Info : 07-9555
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 5
Dil Factor: 3.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	51.10000	Weight of sample extracted (g)
M	47.00000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.922	4.903	(0.723)	141138	7.77079	860.8
$ 2 Phenol-d5	99	6.455	6.447	(0.948)	198697	9.32377	1033
3 Phenol	94	6.477	6.468	(0.951)	12885	0.55076 LDL	61.01
$ 5 2-Chlorophenol-d4	132	6.525	6.521	(0.958)	134857	9.15196	1014
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.808	6.805	(1.000)	199772	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.096	7.093	(1.042)	52220	5.79840	642.0
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.727	7.729	(0.876)	110059	6.38375	707.1
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.822	8.819	(1.000)	724544	20.0000	
	28 Naphthalene	128	8.854	8.851	(1.004)	86422	2.01373	223.1
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	9.965	9.967	(1.130)	18332	0.84032 LDL	93.08
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.622	10.619	(0.911)	151520	5.99701	664.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.659	11.655	(1.000)	374362	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.701	11.703	(1.004)	21429	0.90711 LDL	100.5(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.519	12.515	(1.074)	20444	0.81469 LDL	90.24(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.946	12.937	(1.110)	38960	10.2222	1132
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.009	14.001	(1.000)	566367	20.0000	
	60 Phenanthrene	178	14.041	14.038	(1.002)	356627	9.43523	1045
	61 Anthracene	178	14.116	14.107	(1.008)	86081	2.20413	244.2
	62 Carbazole	167	14.415	14.412	(1.029)	65829	1.95883	217.0(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.179	15.165	(1.083)	27151	0.65510 LDL	72.57
64 Fluoranthene	202	15.980	15.956	(1.141)	783985	21.8616	2422
65 Pyrene	202	16.322	16.303	(0.892)	802427	20.6049	2282
$ 66 Terphenyl-d14	244	16.669	16.650	(0.911)	153714	6.23298	690.4
67 Butylbenzylphthalate	149	17.578	17.558	(0.960)	55183	3.01375	333.8(M)
68 Benzo(a)anthracene	228	18.283	18.253	(0.999)	290089	8.27423	916.5
* 69 Chrysene-d12	240	18.304	18.280	(1.000)	469342	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.342	18.322	(1.002)	448541	12.6471	1401
72 bis(2-Ethylhexyl)phthalate	149	18.598	18.573	(0.952)	1132312	47.0739 E	5214(M)
* 134 Di-n-octylphthalate-d4	153	19.533	19.503	(1.000)	702278	20.0000	
73 Di-n-octylphthalate	149	19.549	19.514	(1.001)	73776	1.76836	195.9(M)
74 Benzo(b)fluoranthene	252	19.944	19.898	(0.975)	427426	15.0416	1666(M)
75 Benzo(k)fluoranthene	252	19.960	19.930	(0.975)	348817	12.7782	1415(M)
76 Benzo(a)pyrene	252	20.382	20.336	(0.996)	292620	10.2881	1140
* 77 Perylene-d12	264	20.462	20.416	(1.000)	438267	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.814	21.768	(1.066)	127623	3.79530	420.4(M)
79 Dibenzo(a,h)anthracene	278	21.830	21.789	(1.067)	23326	0.83754 LDL	92.78(M)
80 Benzo(g,h,i)perylene	276	22.129	22.078	(1.081)	121066	3.93015	435.3(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.338	6.377	(0.931)	32254	1.07949 Y	119.6(M)
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	10.136	10.133	(1.149)	10978	0.52290 LDL	57.92
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56i.d
Lab Smp Id: KZ56I
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9555

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC15-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	199772	-8.23
27 Naphthalene-d8	775413	387706	1550826	724544	-6.56
42 Acenaphthene-d10	371068	185534	742136	374362	0.89
59 Phenanthrene-d10	554165	277082	1108330	566367	2.20
69 Chrysene-d12	436021	218010	872042	469342	7.64
134 Di-n-octylphthala	773344	386672	1546688	702278	-9.19
77 Perylene-d12	622369	311184	1244738	438267	-29.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.05
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.04
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.03
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.06
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.13
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.15
77 Perylene-d12	20.42	19.92	20.92	20.46	0.23

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56I
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9555

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC15-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

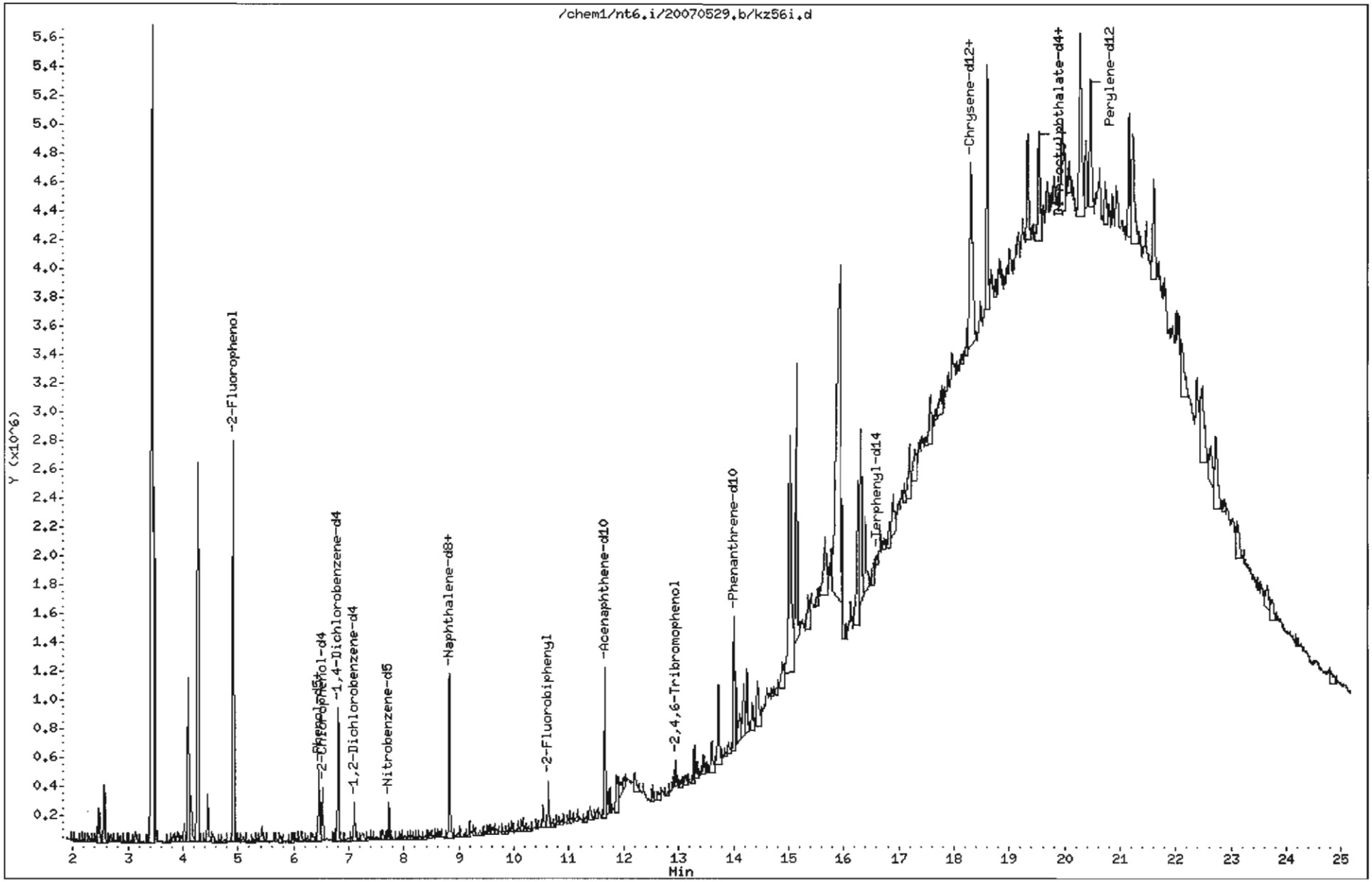
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1385	860.8	62.17	11-84
$ 2 Phenol-d5	1385	1033	74.59	25-86
$ 5 2-Chlorophenol-d4	1385	1014	73.22	23-91
$ 10 1,2-Dichlorobenzen	923.1	642.0	69.54	24-90
$ 18 Nitrobenzene-d5	923.1	707.1	76.61	26-88
$ 36 2-Fluorobiphenyl	923.1	664.3	71.96	34-91
$ 55 2,4,6-Tribromophen	1385	1132	81.78	25-107
$ 66 Terphenyl-d14	923.1	690.4	74.80	22-100

Data File: /chem1/nt6.i/20070529.b/kz56i.d
Date : 29-MAY-2007 12:05
Client ID: Y3-RC15-S
Sample Info: KZ56I,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

0445



Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

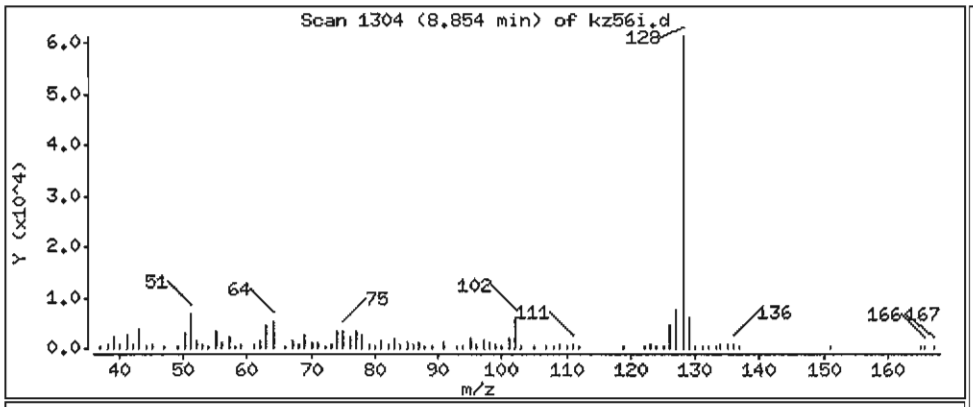
Operator: LJR/VTS

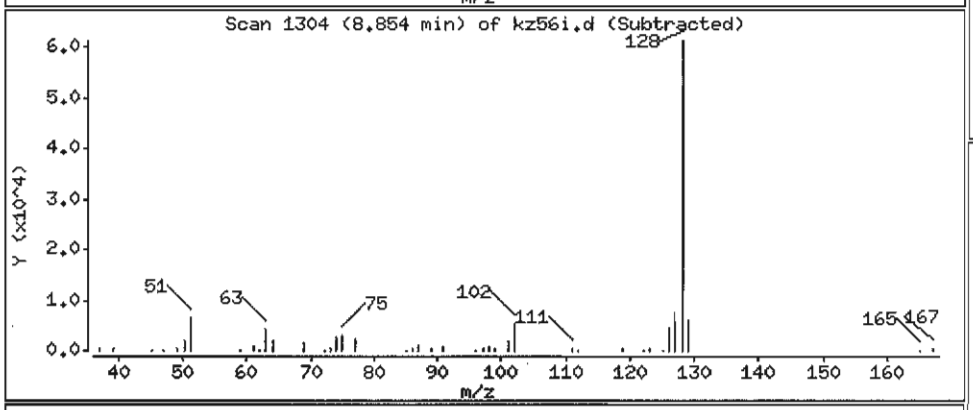
Column phase: ZB-5

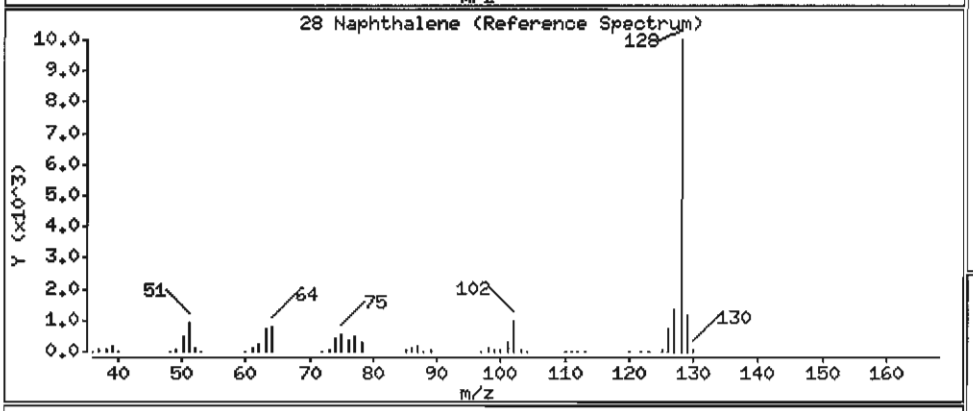
Column diameter: 0.32

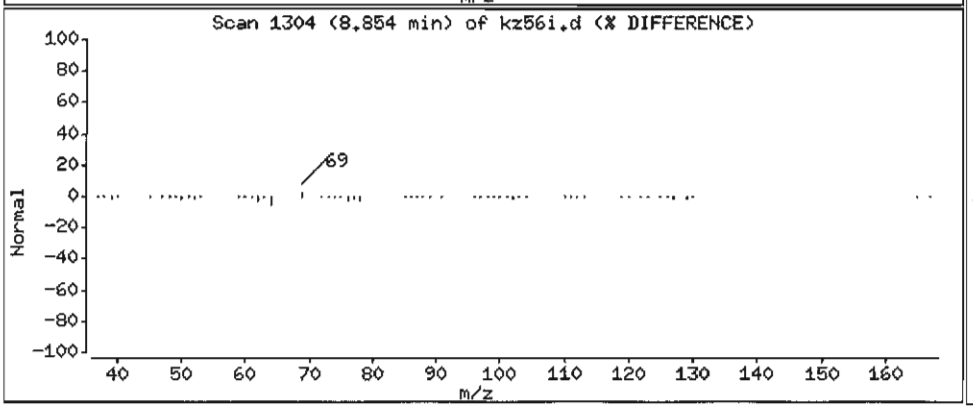
28 Naphthalene

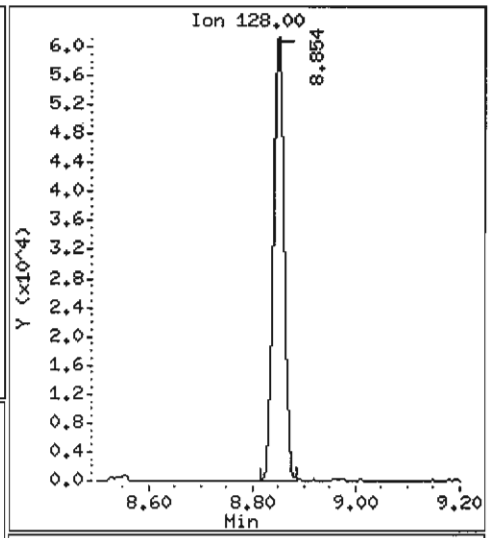
Concentration: 223.1 ug/kg

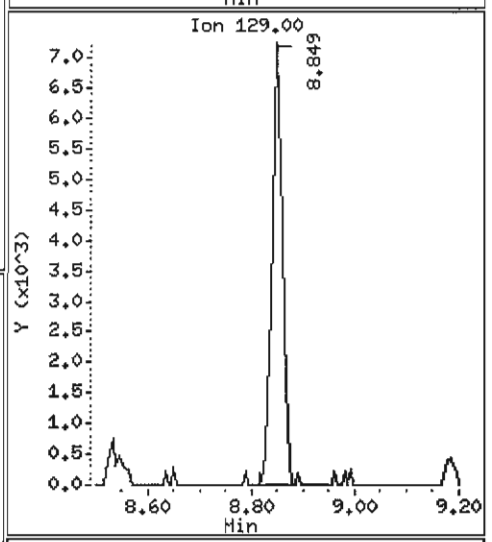


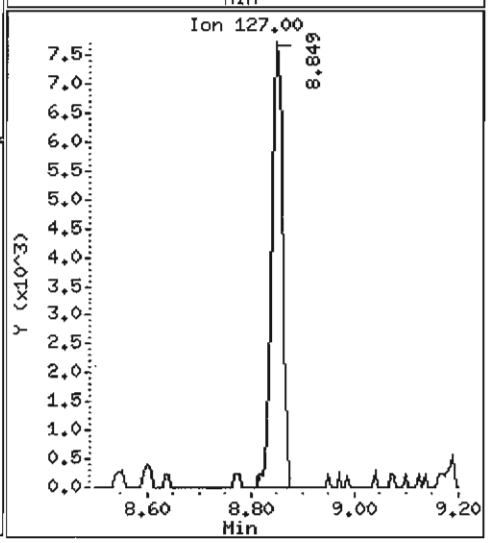












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

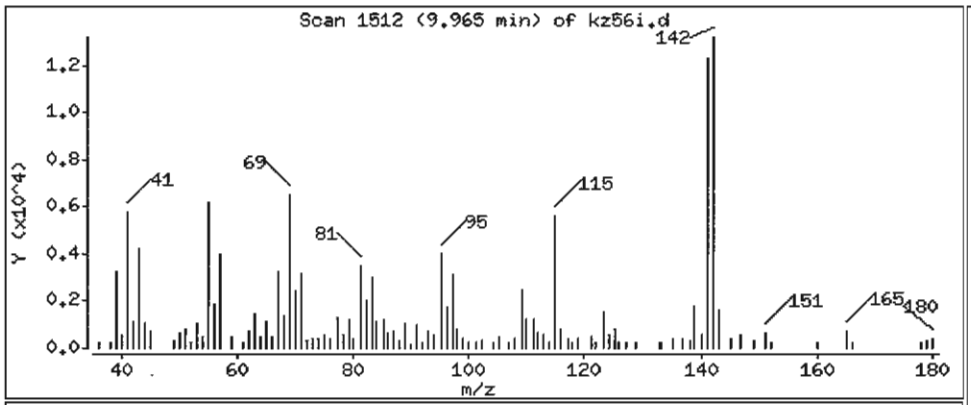
Operator: LJR/VTS

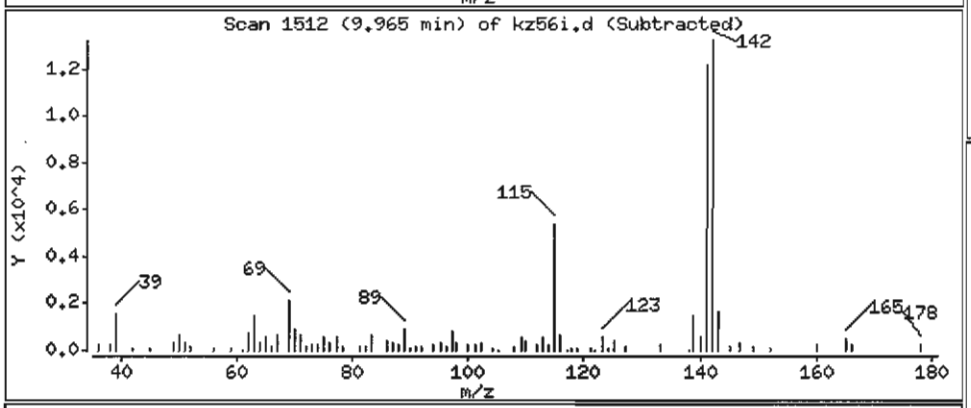
Column phase: ZB-5

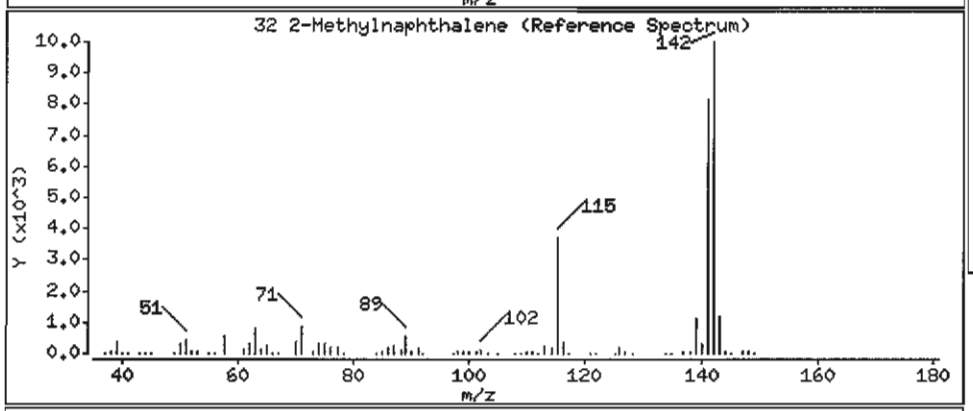
Column diameter: 0.32

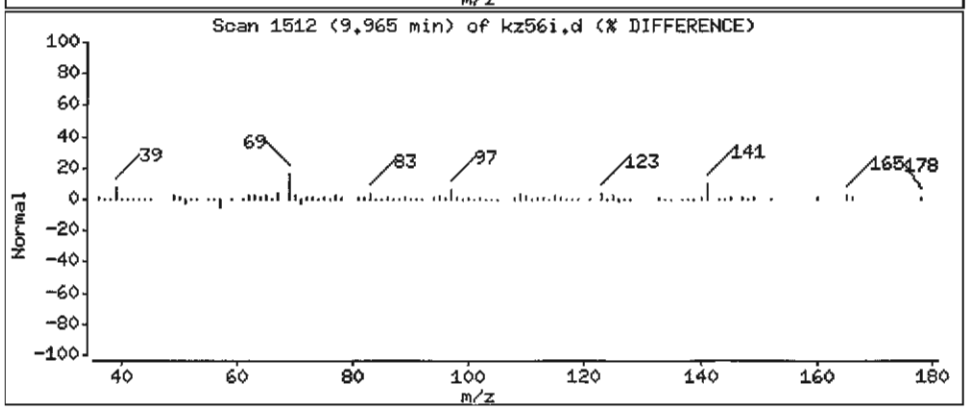
32 2-Methylnaphthalene

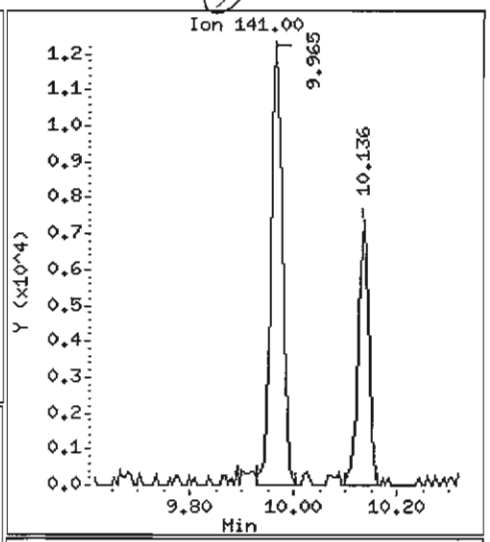
Concentration: 93.08 ug/kg

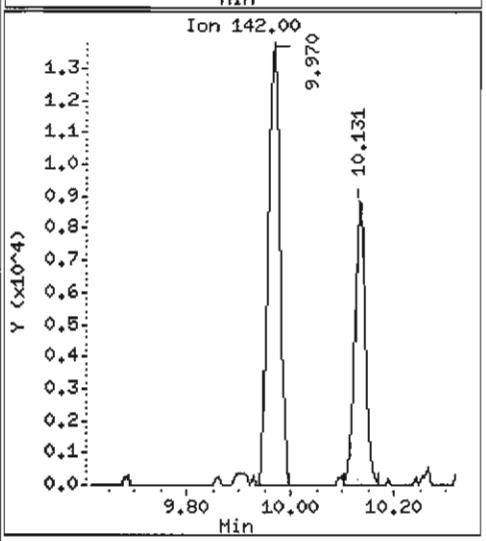












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

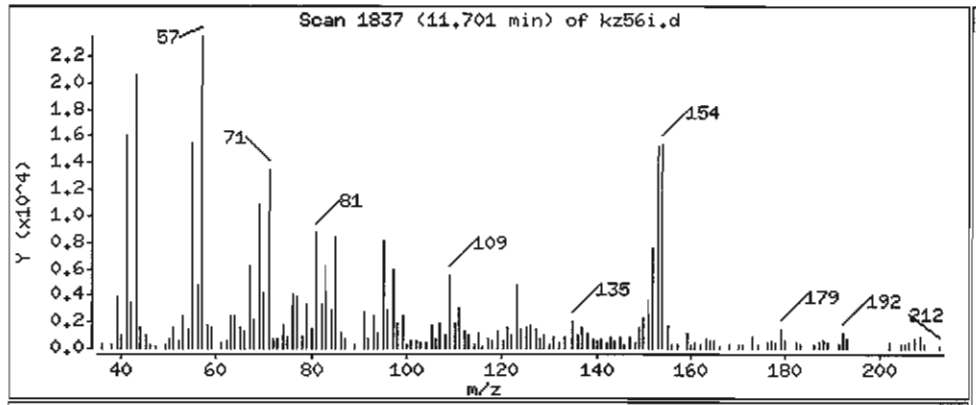
Operator: LJR/VTS

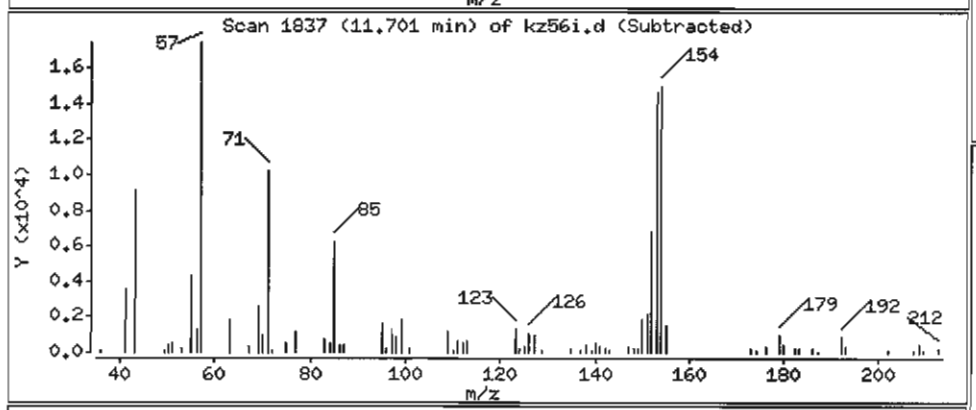
Column phase: ZB-5

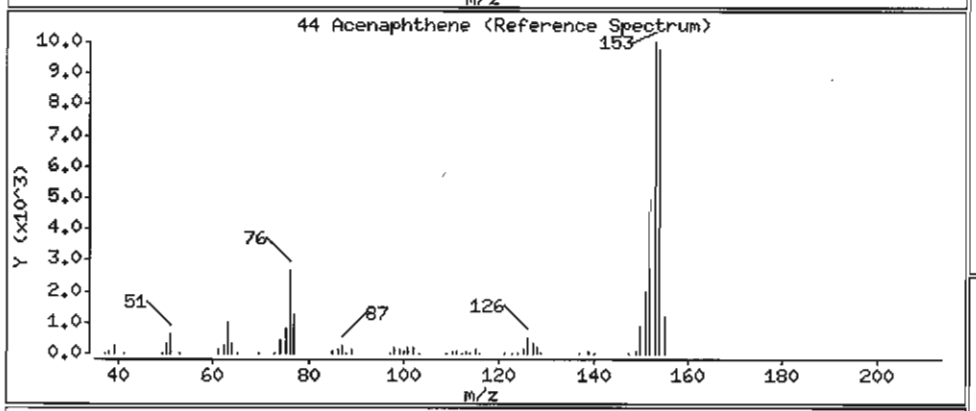
Column diameter: 0.32

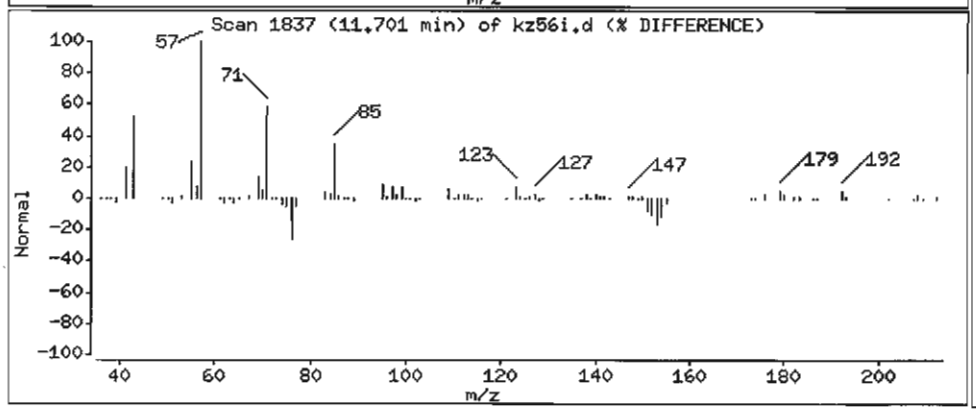
44 Acenaphthene

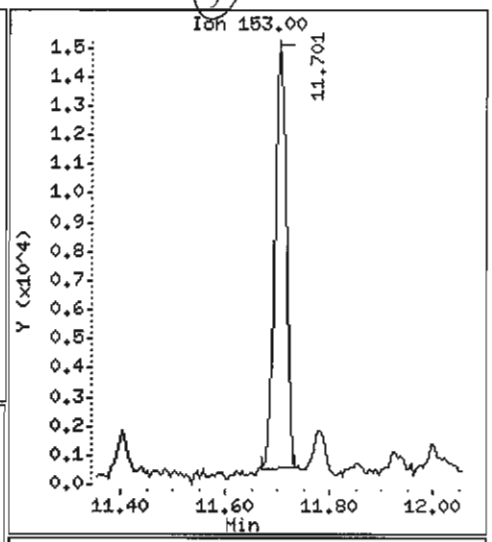
Concentration: 100.5 ug/kg

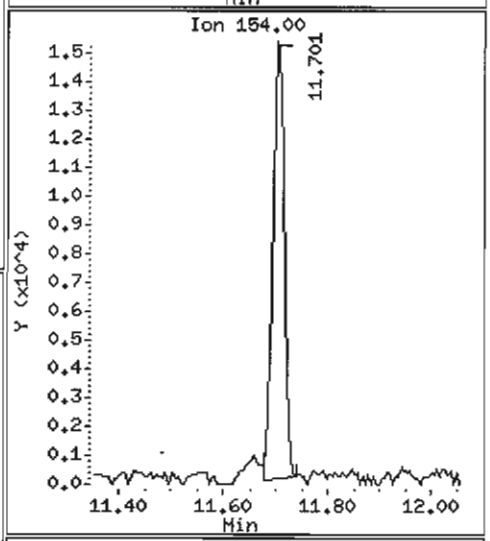


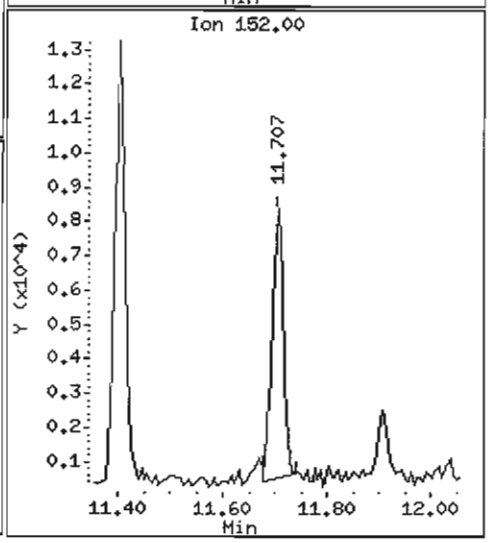












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

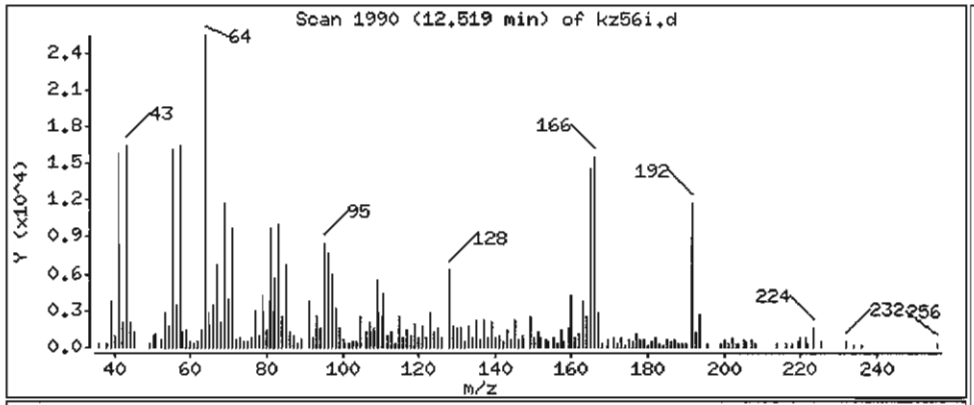
Column phase: ZB-5

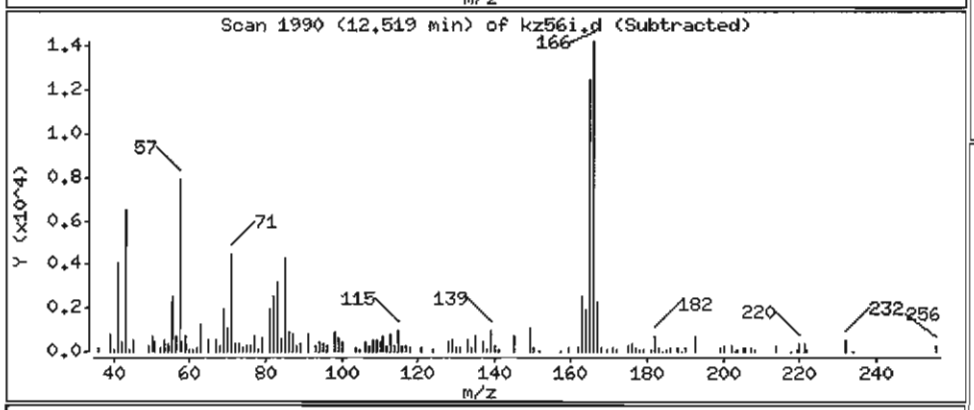
Column diameter: 0.32

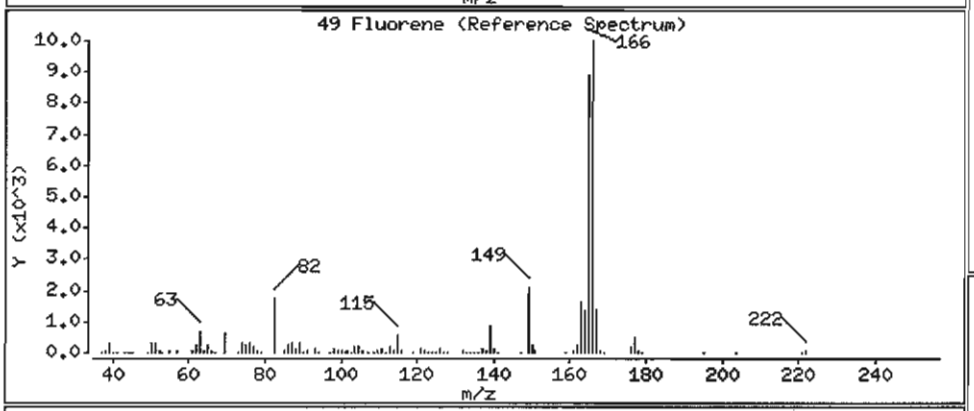
49 Fluorene

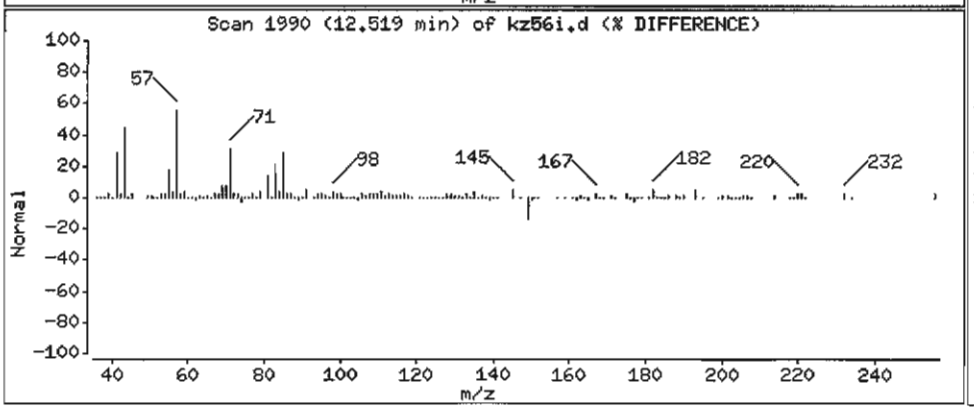
Concentration: 90.24 ug/kg

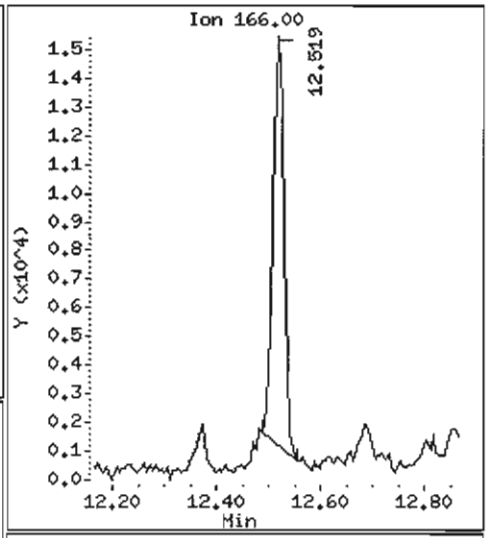
JLR

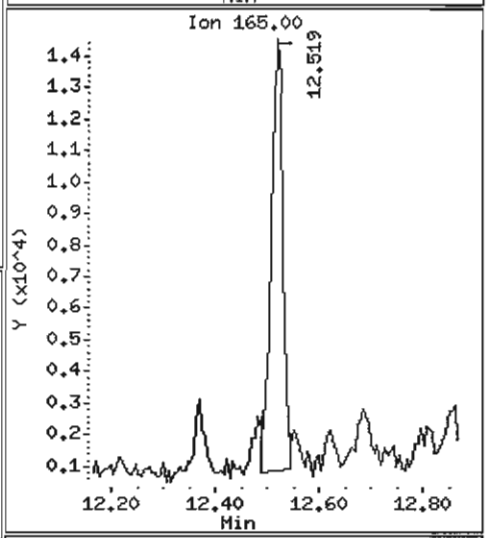


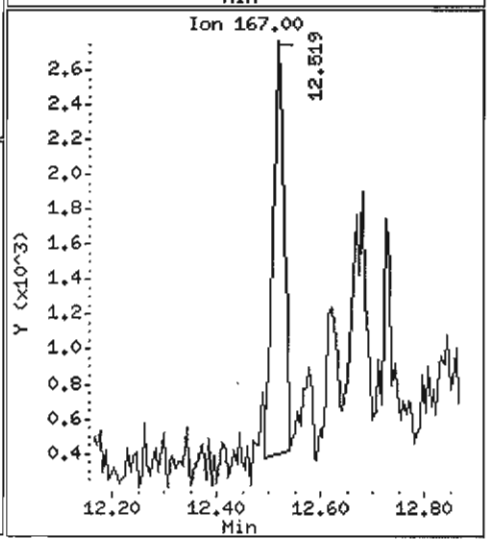












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

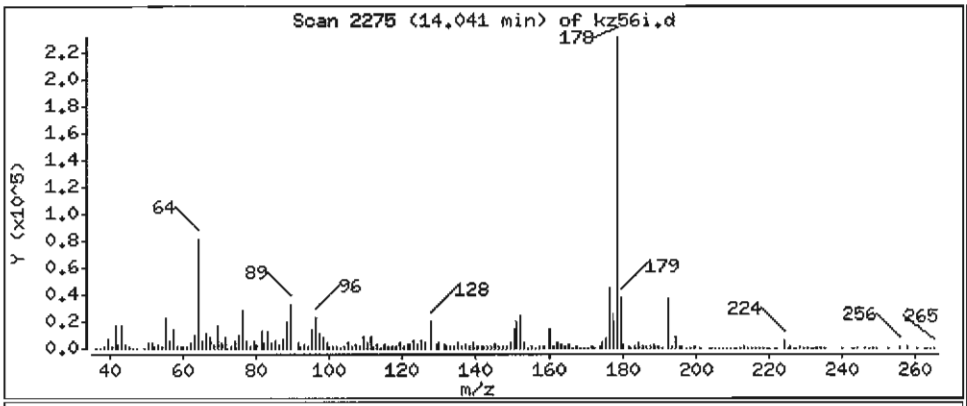
Operator: LJR/VTS

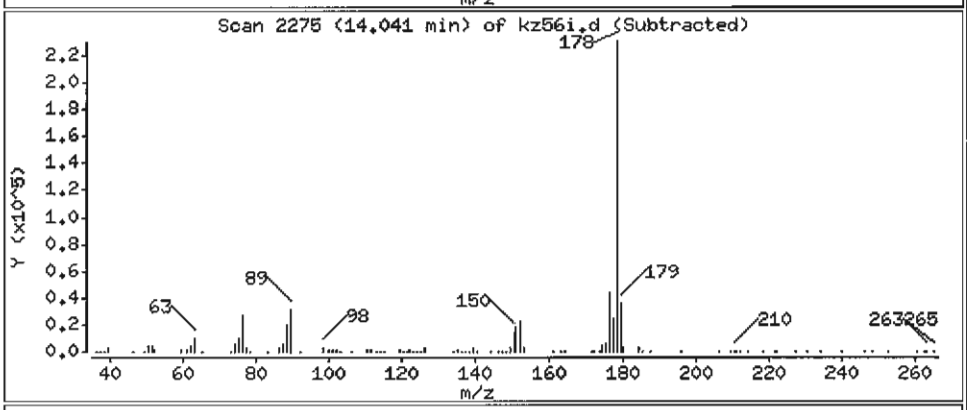
Column phase: ZB-5

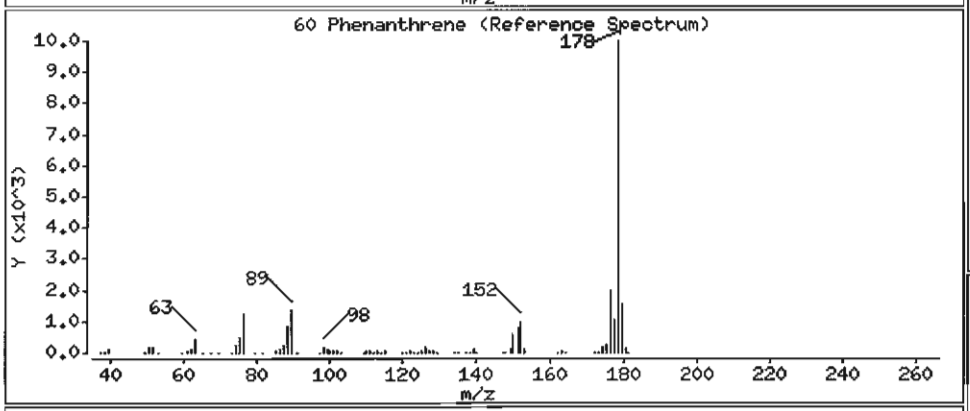
Column diameter: 0.32

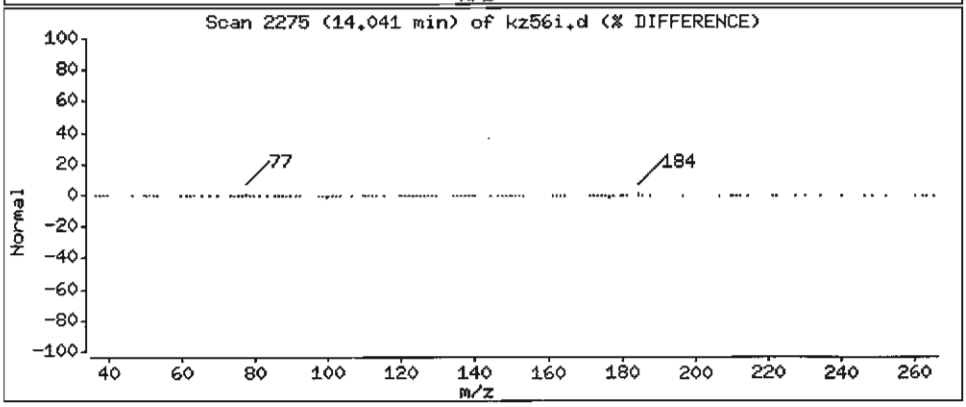
60 Phenanthrene

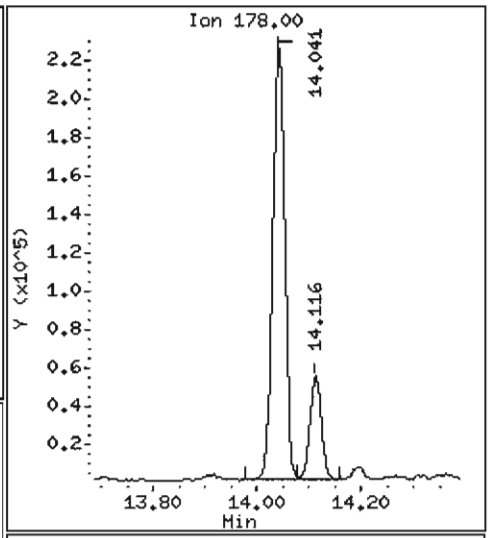
Concentration: 1045 ug/kg

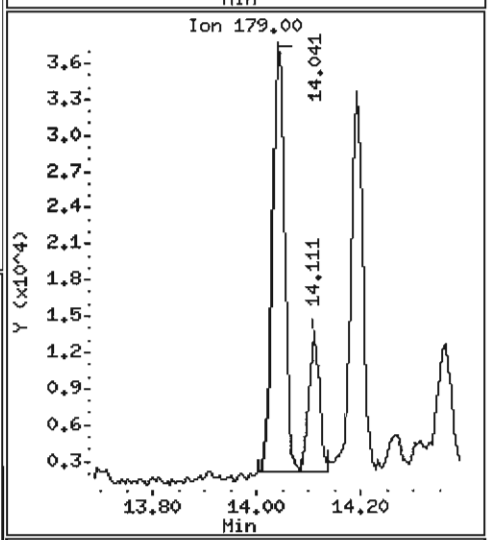


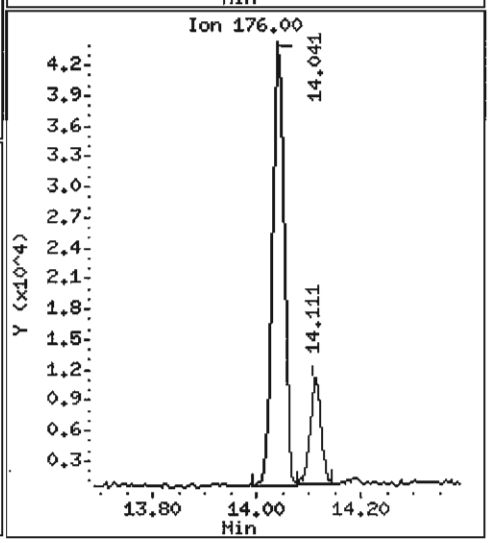












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

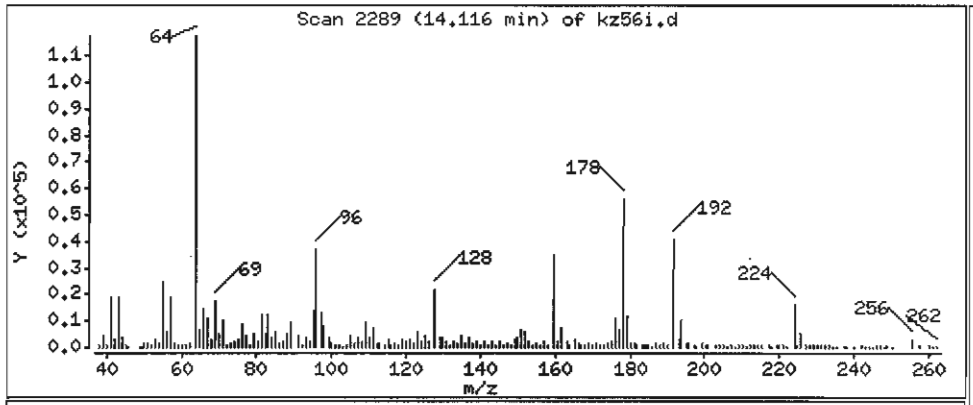
Operator: LJR/VTS

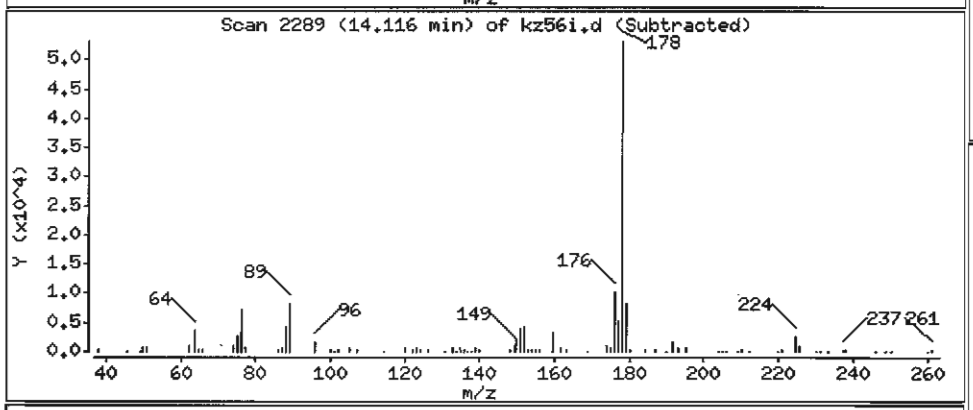
Column phase: ZB-5

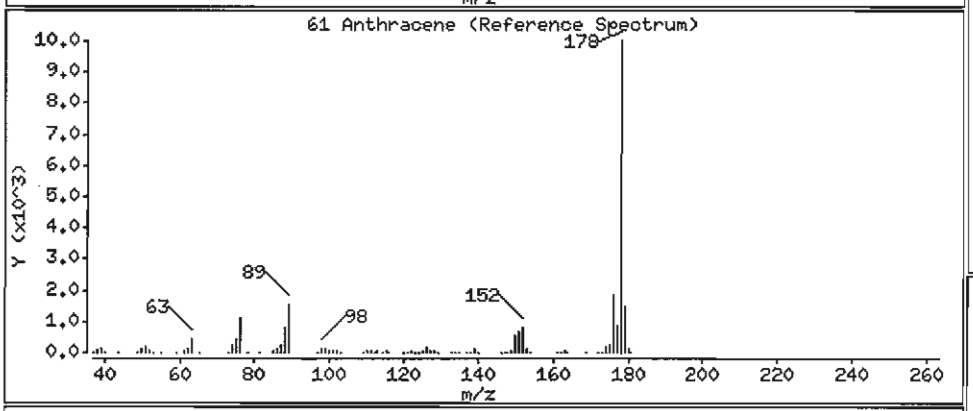
Column diameter: 0.32

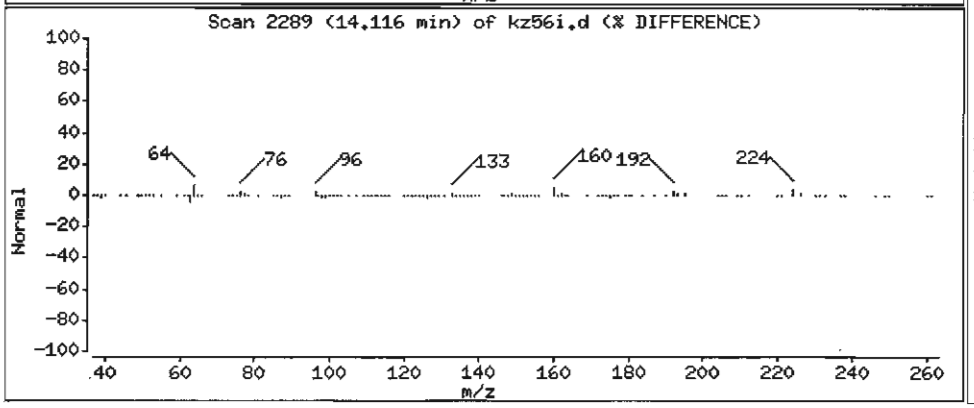
61 Anthracene

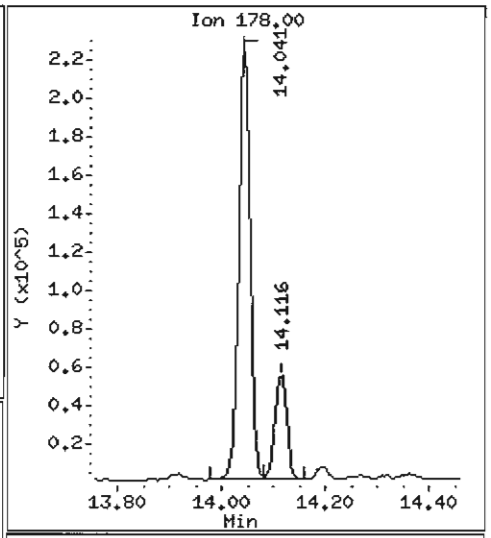
Concentration: 244.2 ug/kg

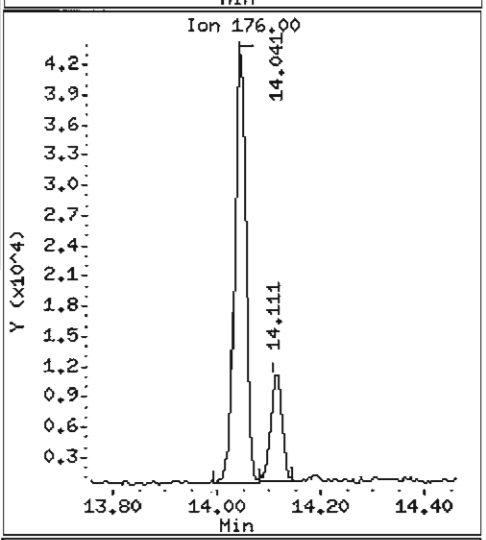


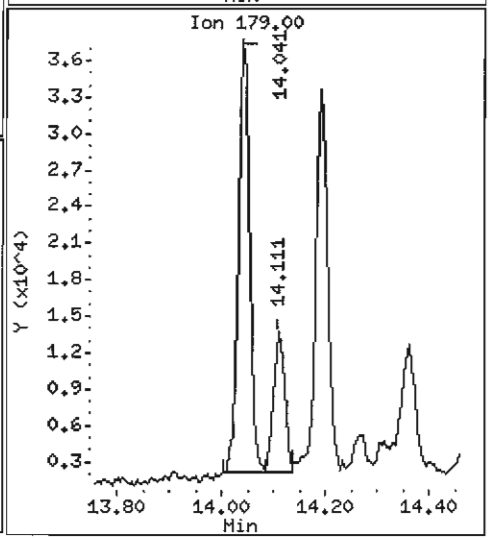












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

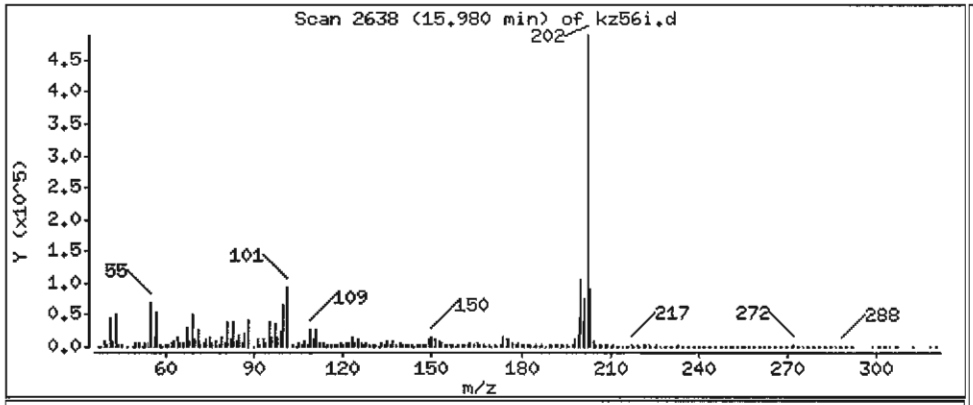
Operator: LJR/VTS

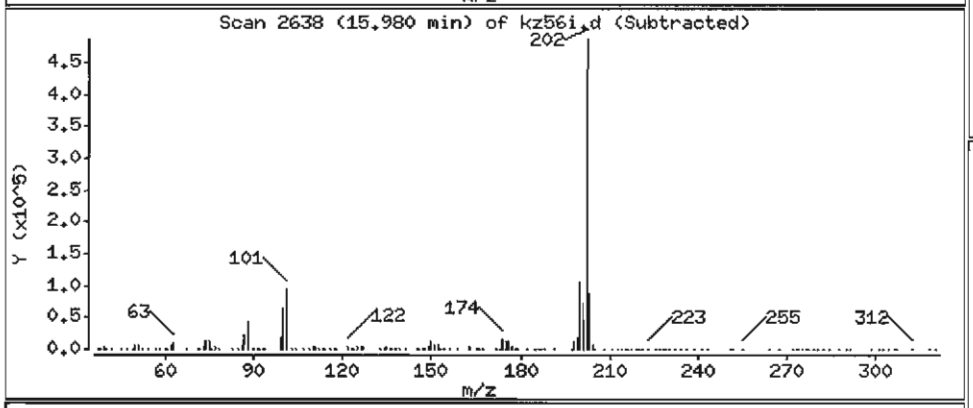
Column phase: ZB-5

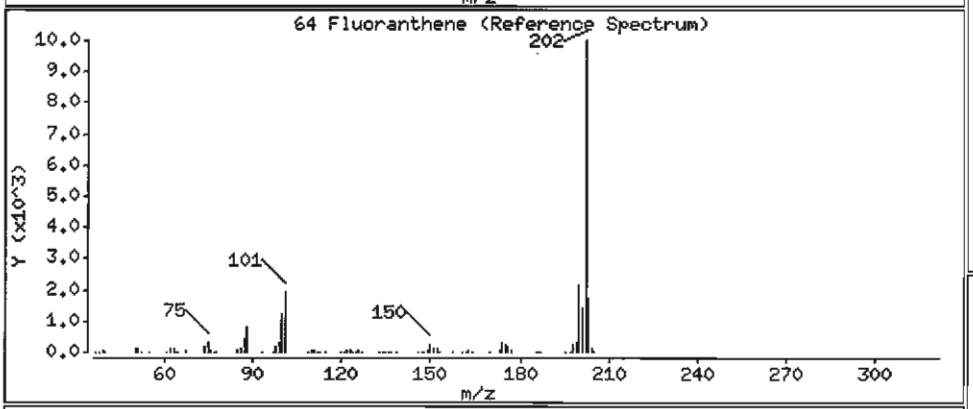
Column diameter: 0.32

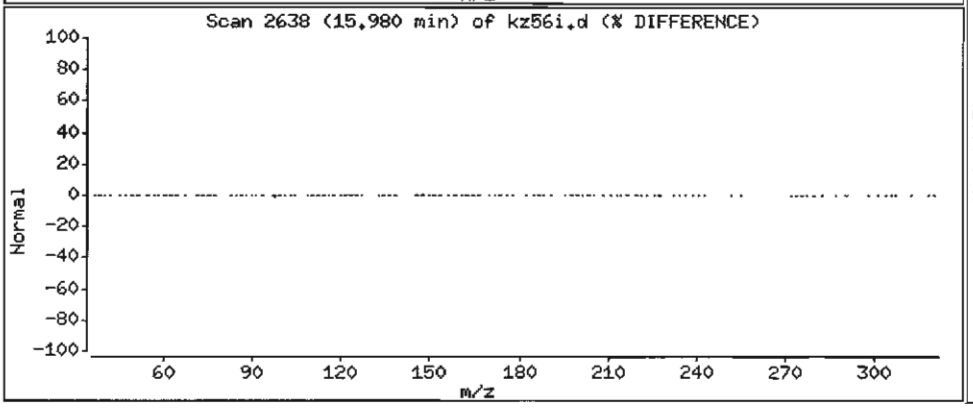
64 Fluoranthene

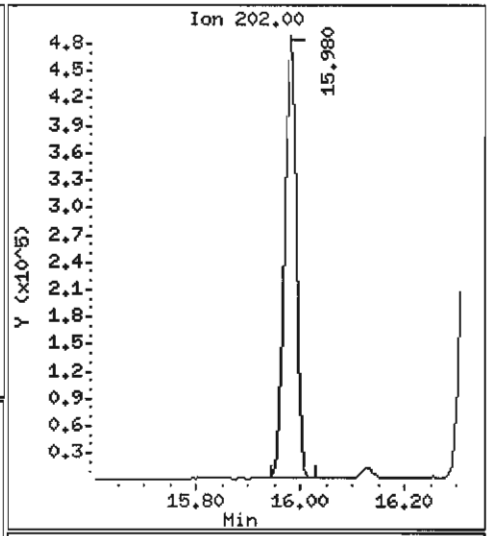
Concentration: 2422 ug/kg

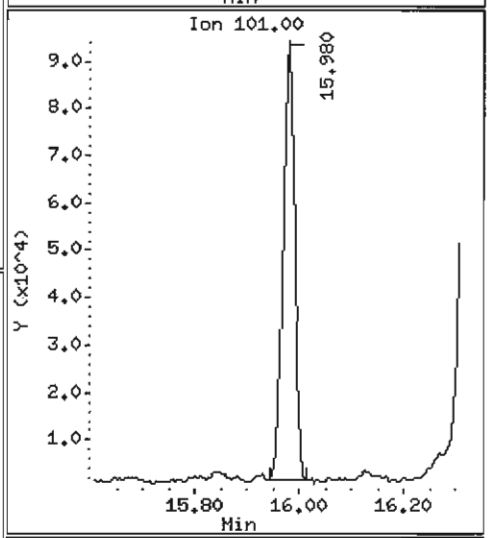


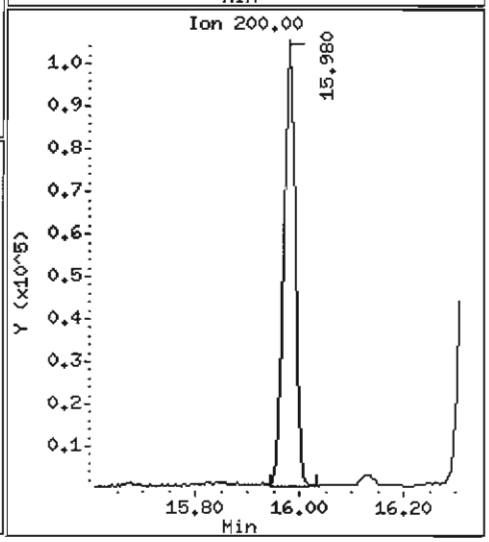












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

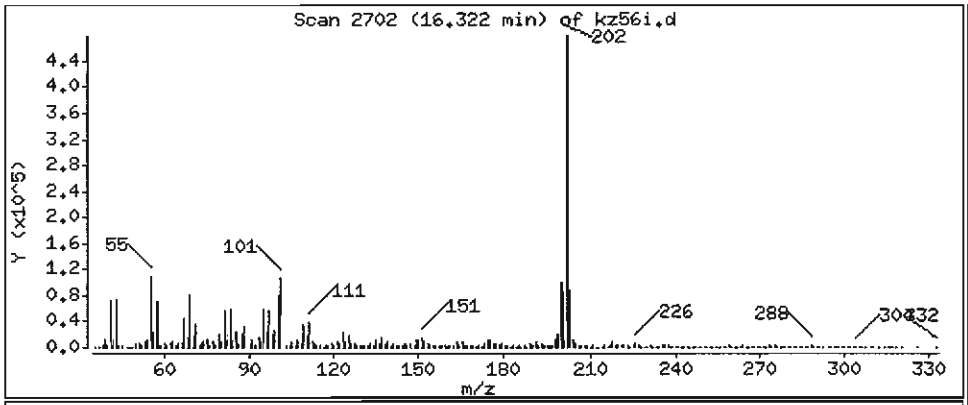
Operator: LJR/VTS

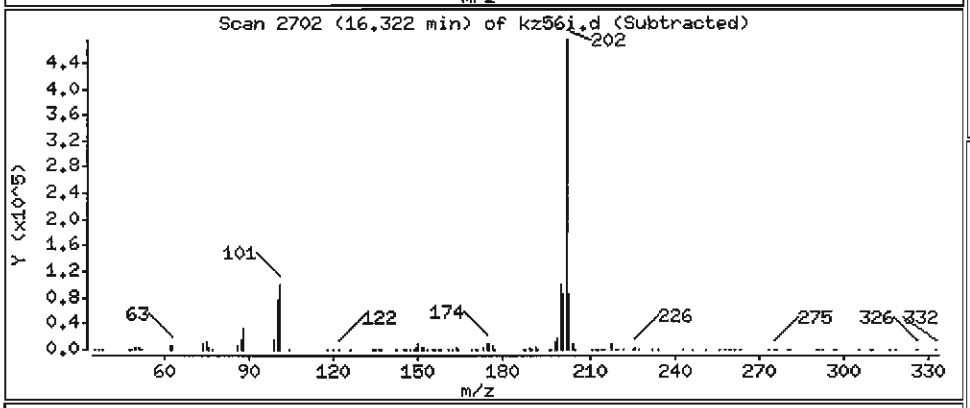
Column phase: ZB-5

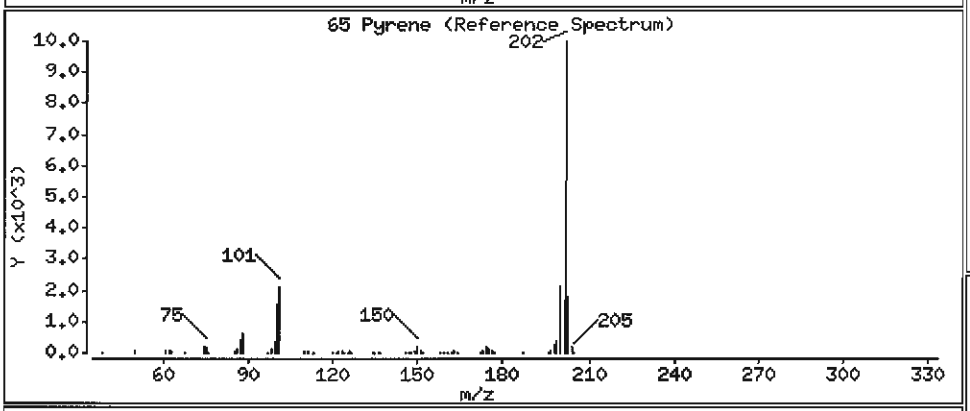
Column diameter: 0.32

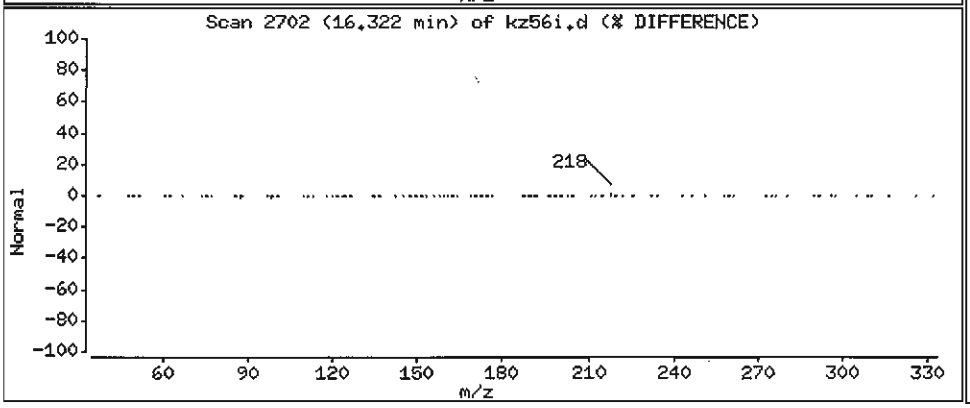
65 Pyrene

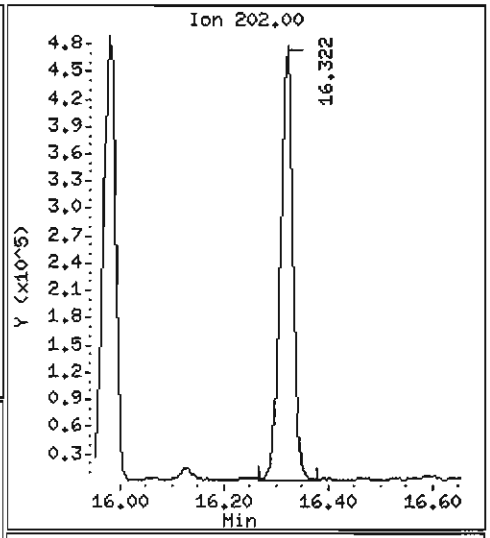
Concentration: 2282 ug/kg

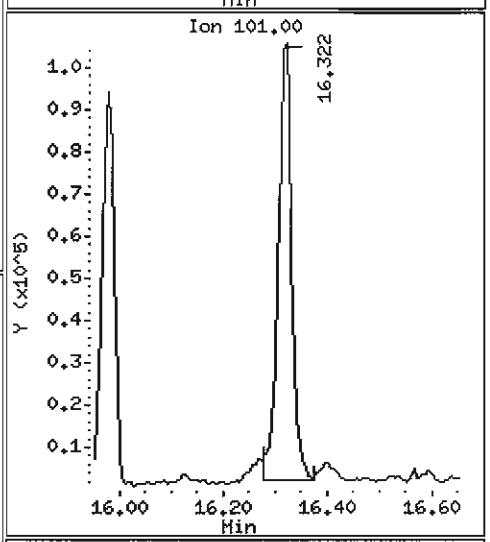


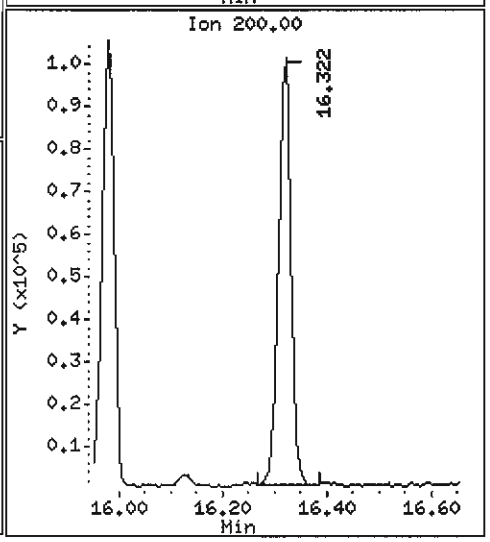












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

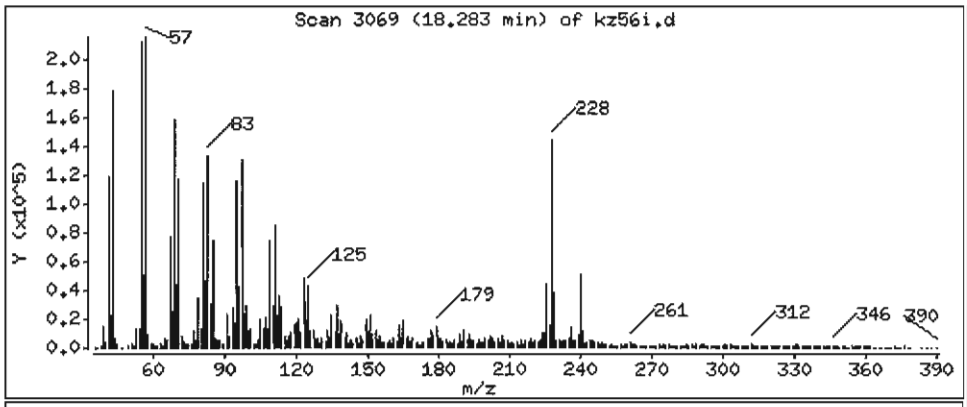
Operator: LJR/VTS

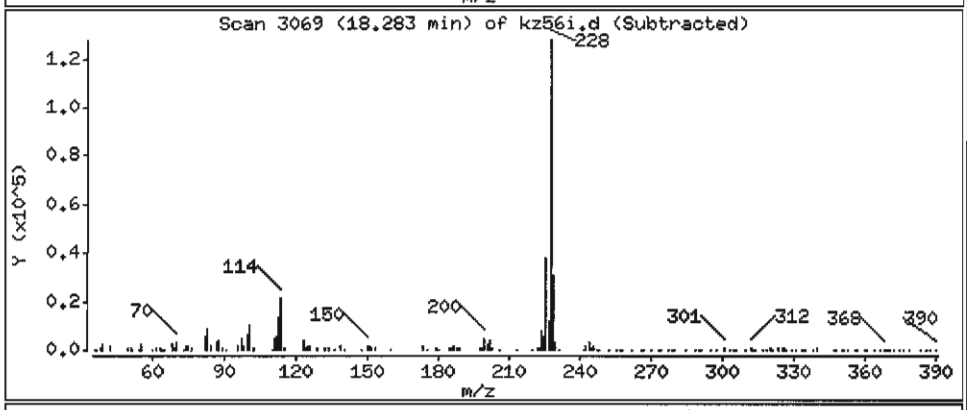
Column phase: ZB-5

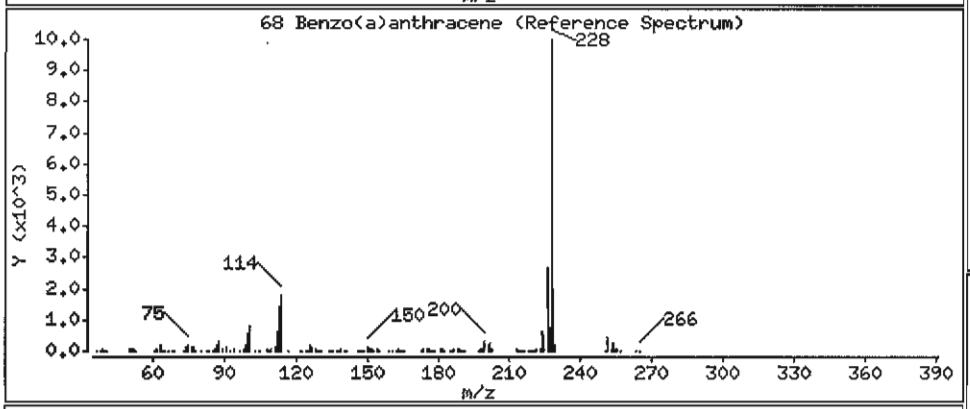
Column diameter: 0.32

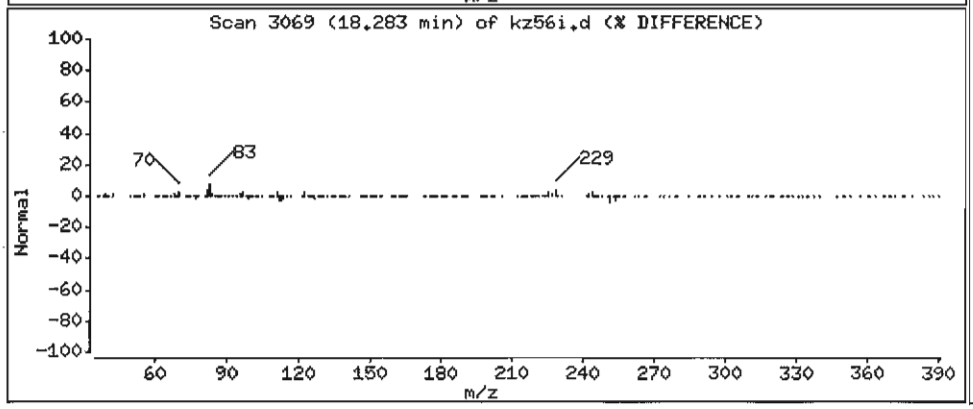
68 Benzo(a)anthracene

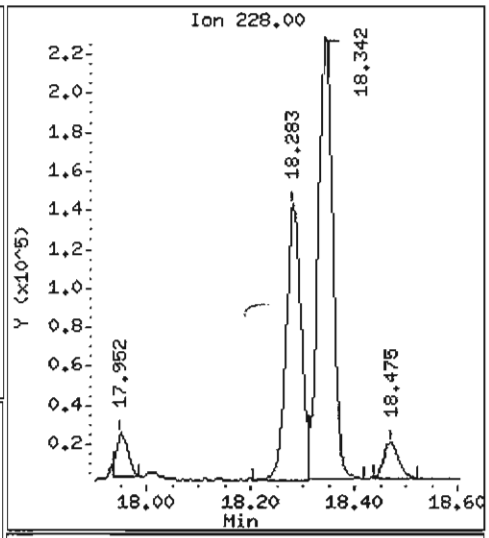
Concentration: 916.5 ug/kg

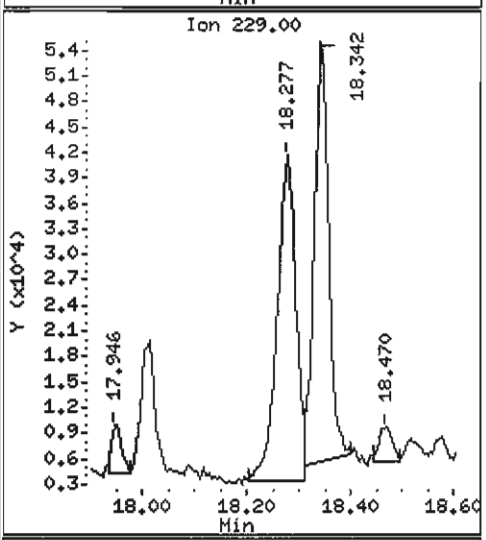


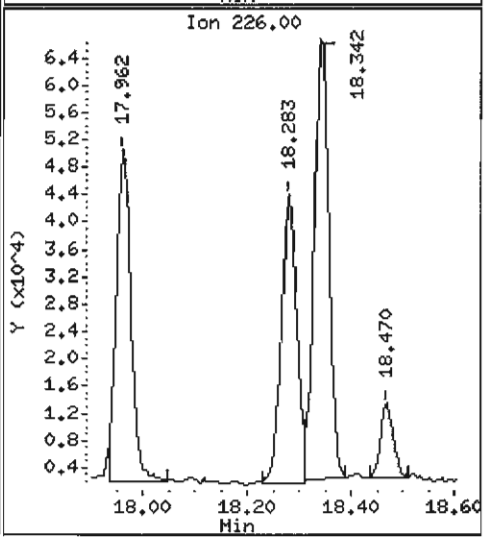












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

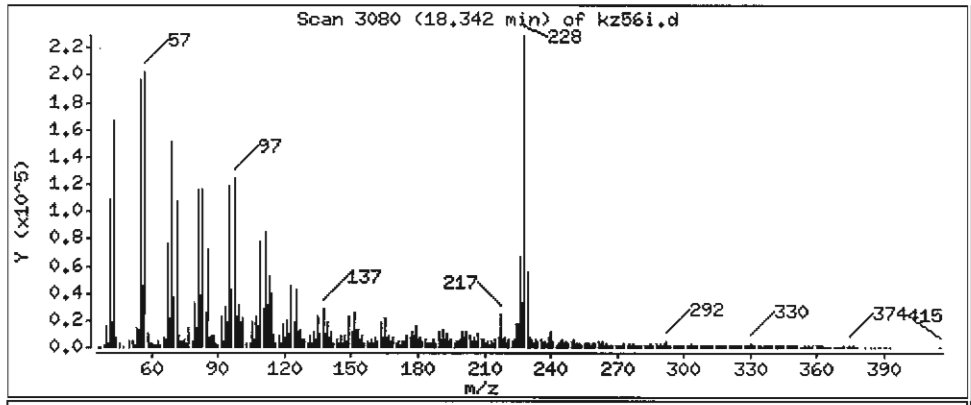
Operator: LJR/VTS

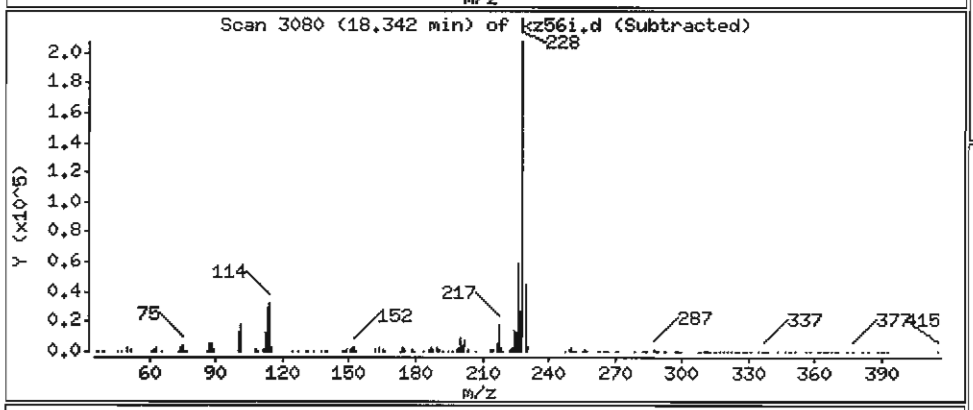
Column phase: ZB-5

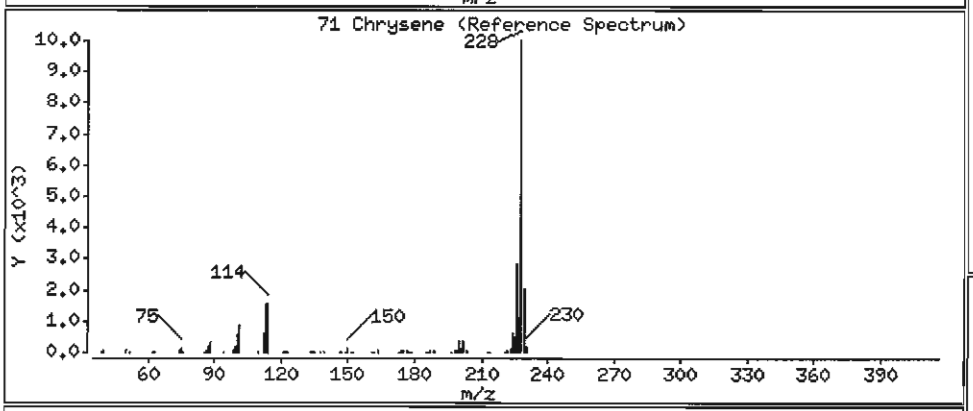
Column diameter: 0.32

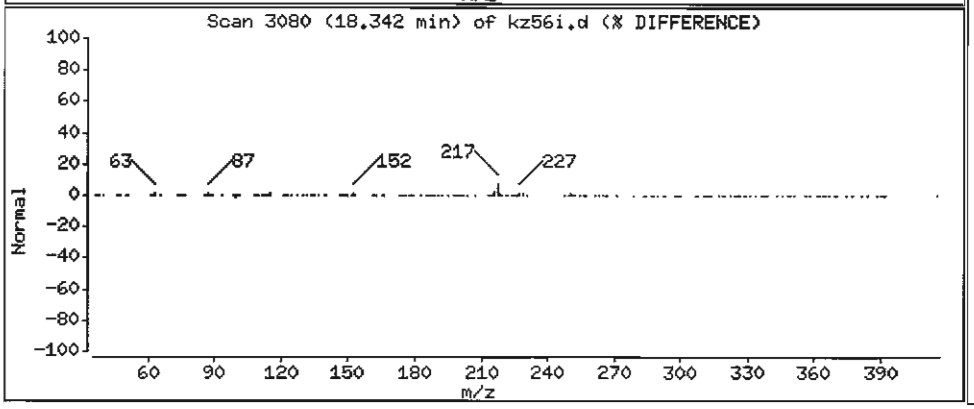
71 Chrysene

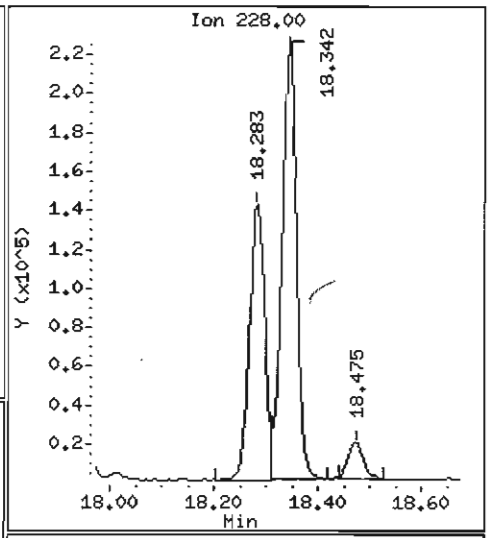
Concentration: 1401 ug/kg

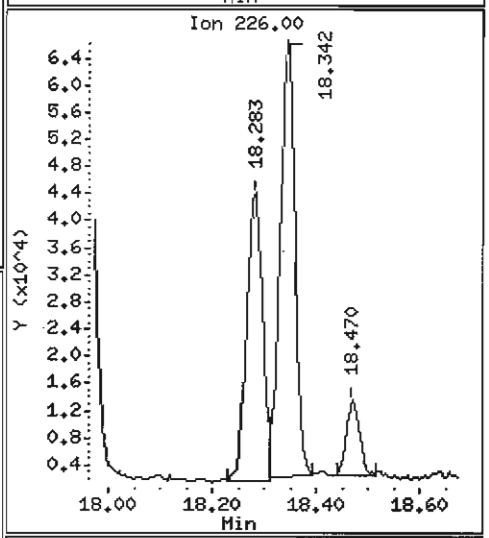


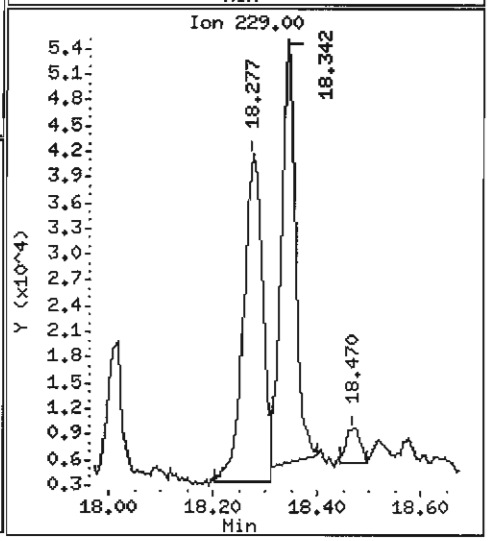












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

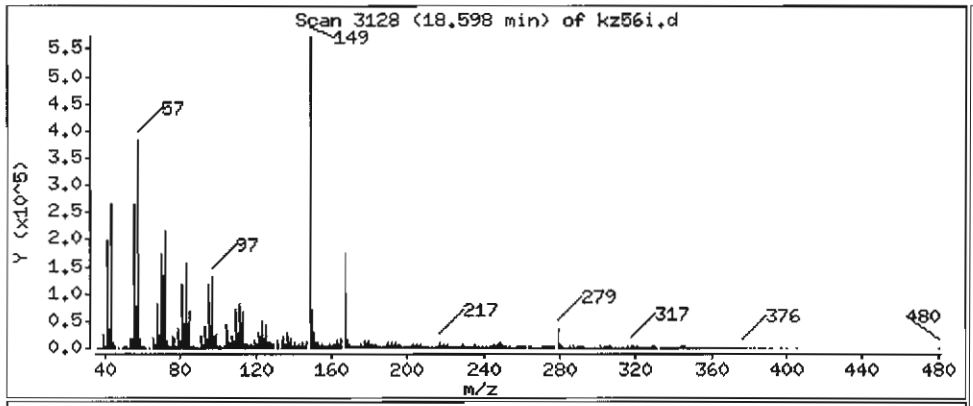
Operator: LJR/VTS

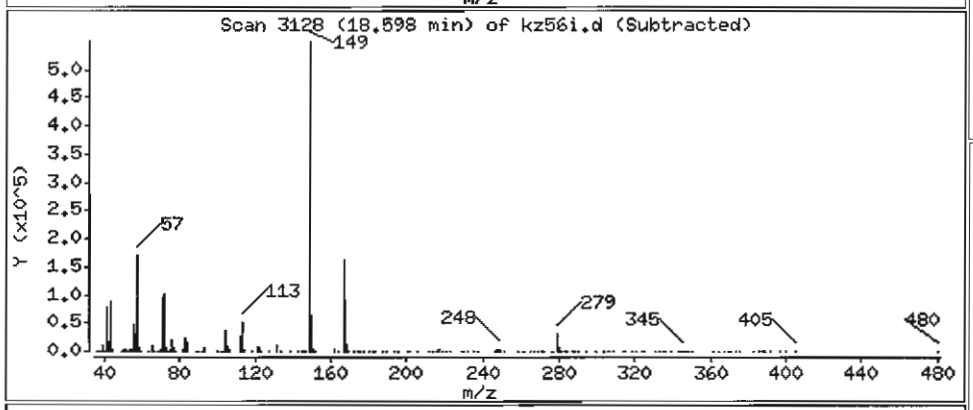
Column phase: ZB-5

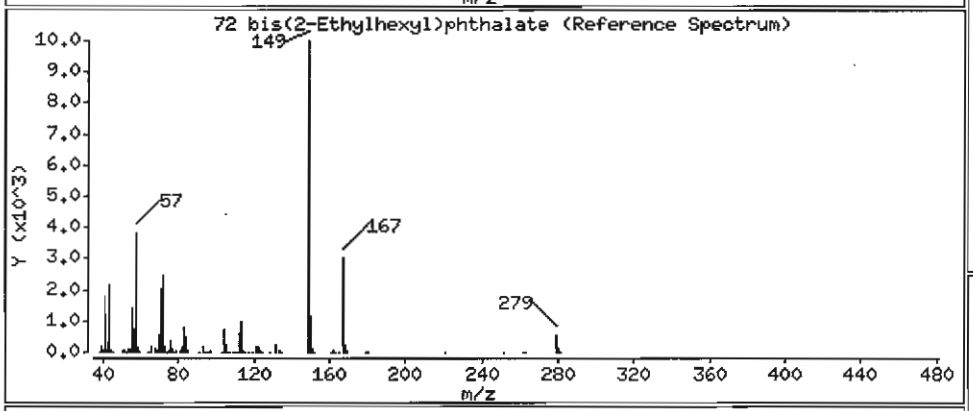
Column diameter: 0.32

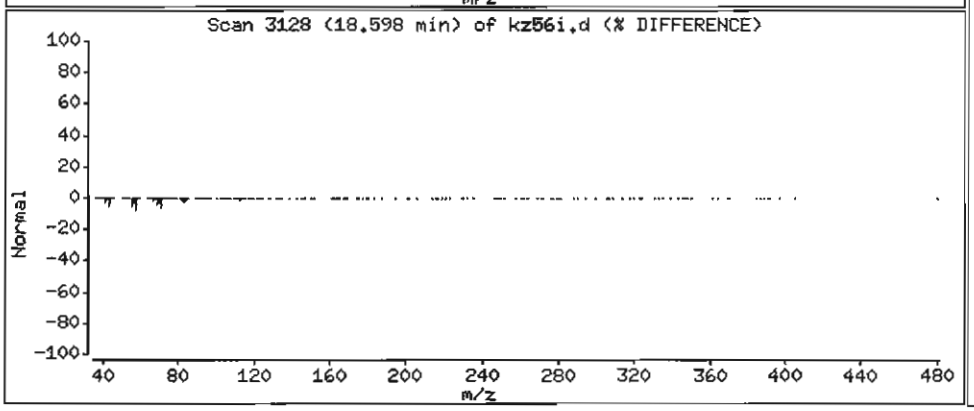
72 bis(2-Ethylhexyl)phthalate

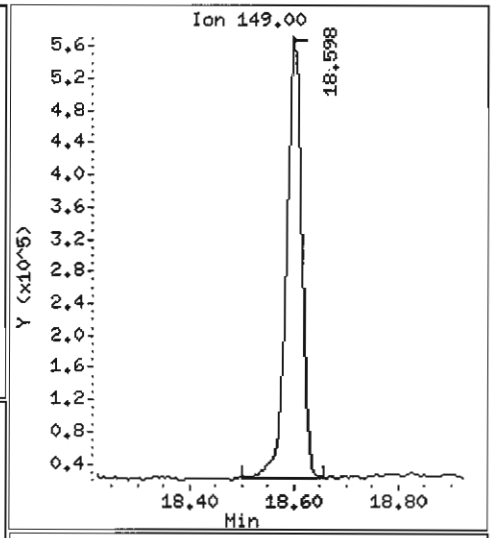
Concentration: 5214 ug/kg

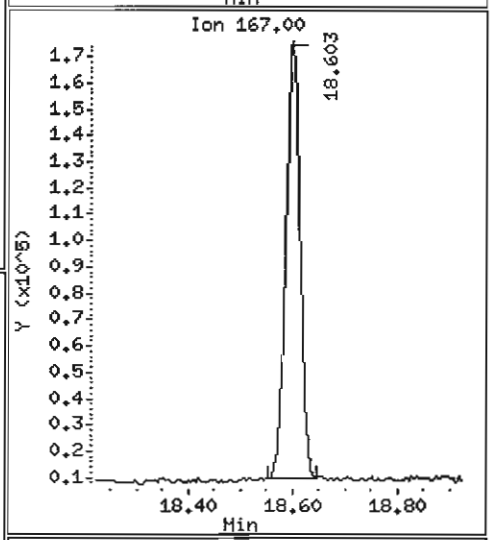


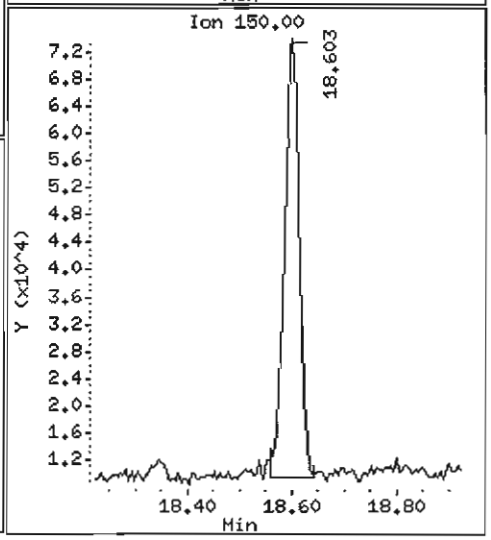












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

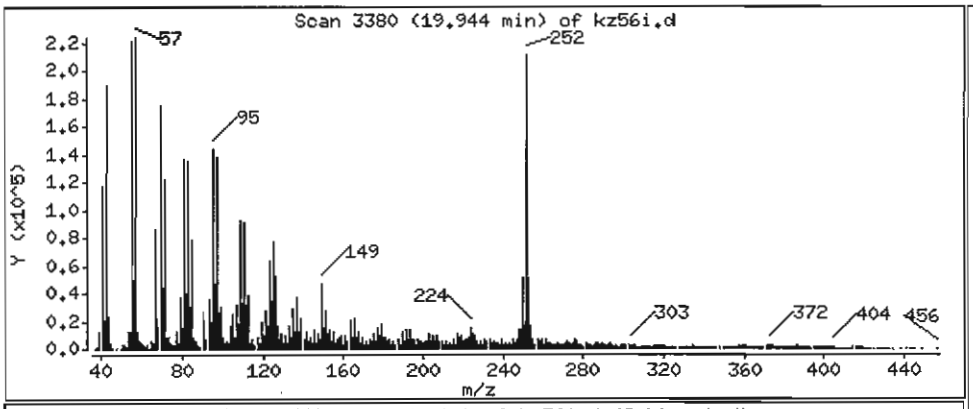
Operator: LJR/VTS

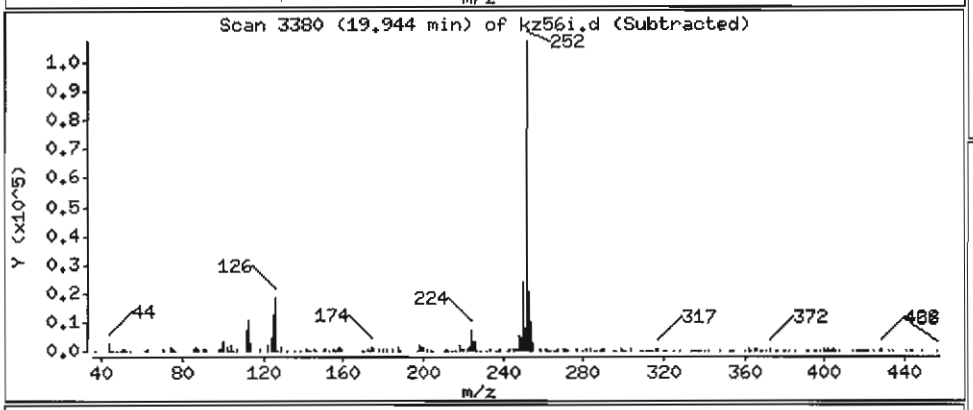
Column phase: ZB-5

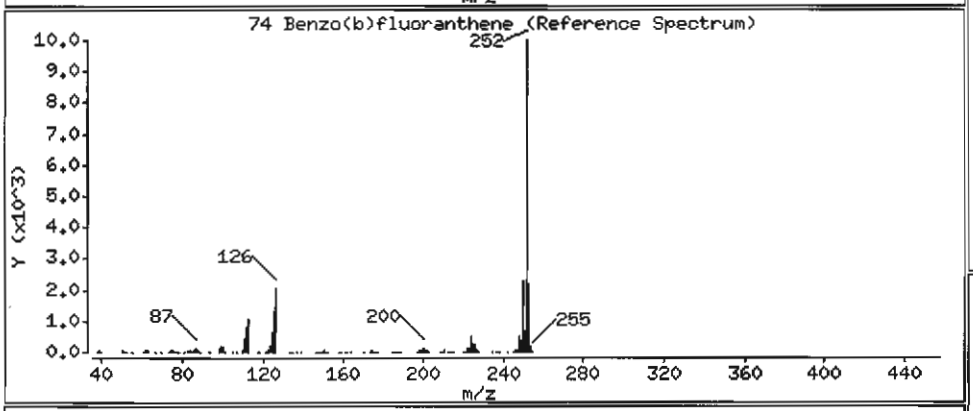
Column diameter: 0.32

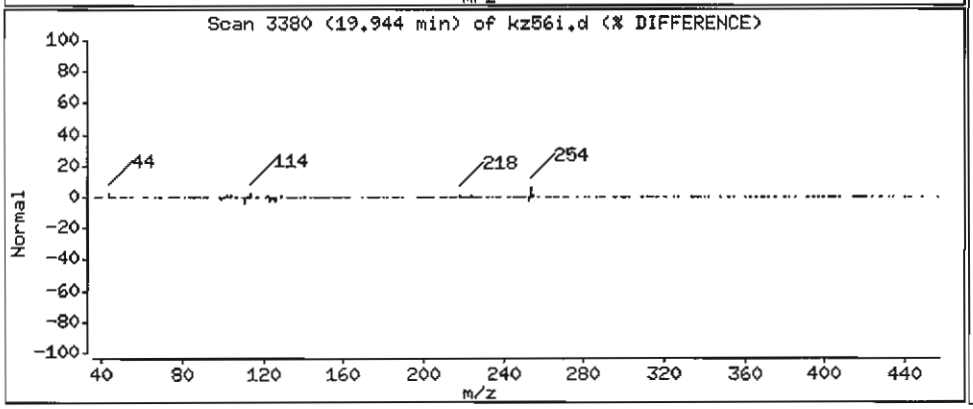
74 Benzo(b)fluoranthene

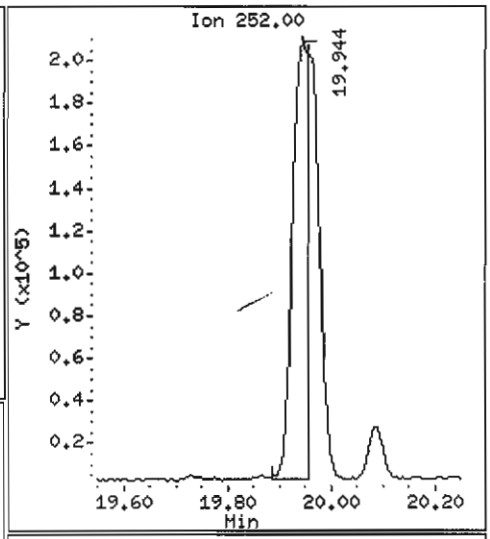
Concentration: 1666 ug/kg

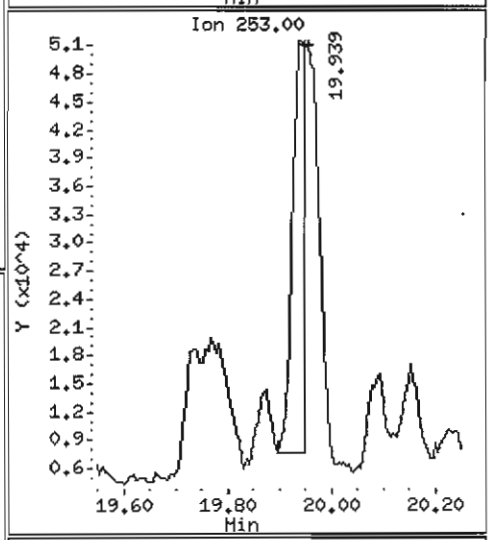


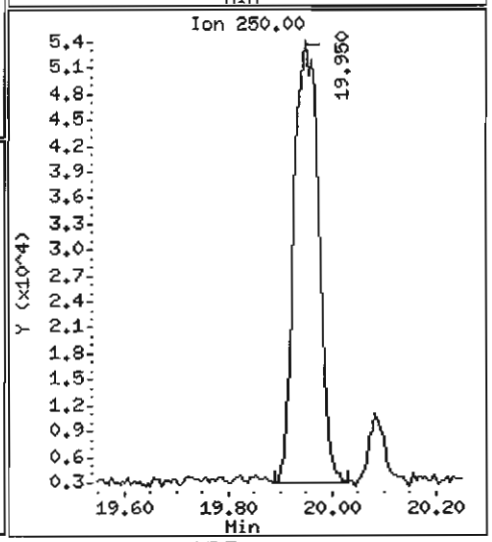












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

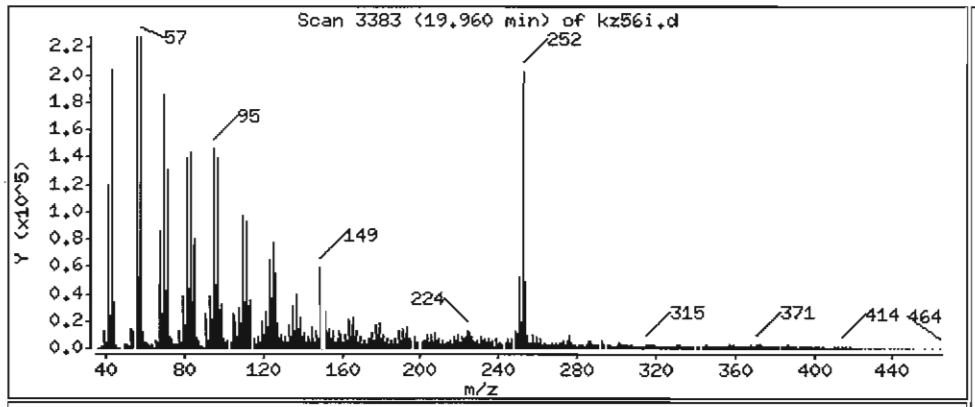
Operator: LJR/VTS

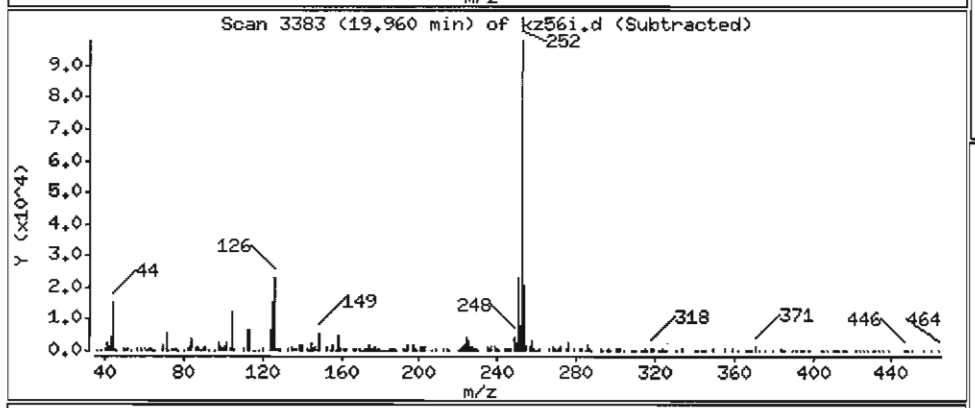
Column phase: ZB-5

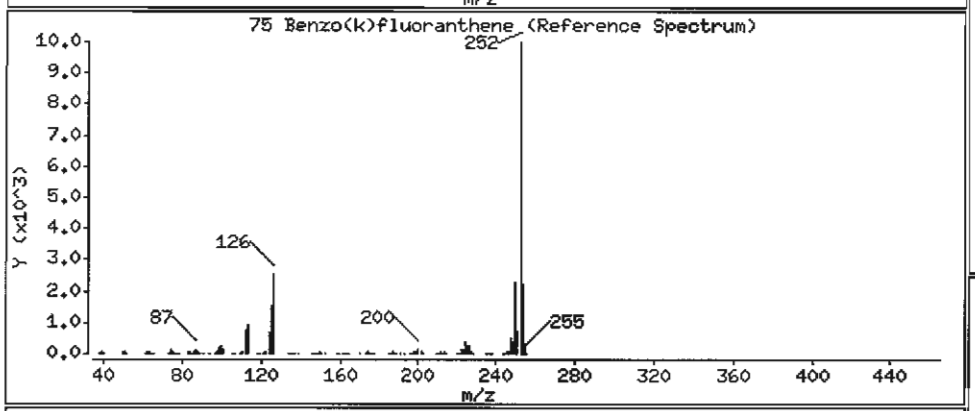
Column diameter: 0.32

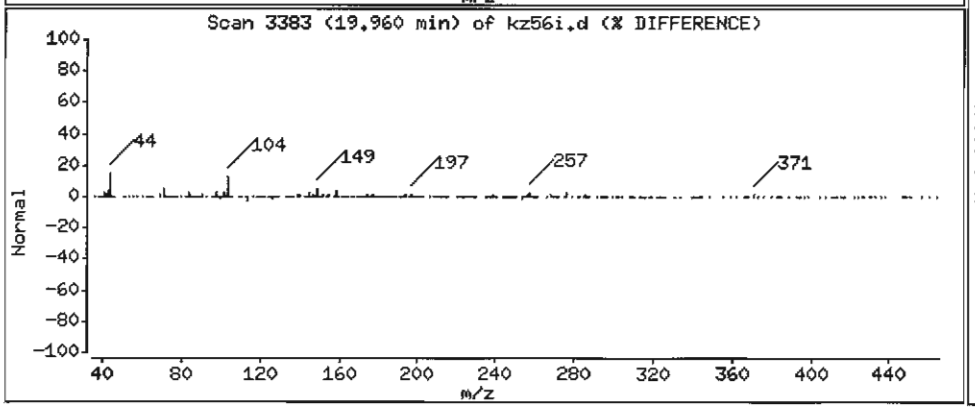
75 Benzo(k)fluoranthene

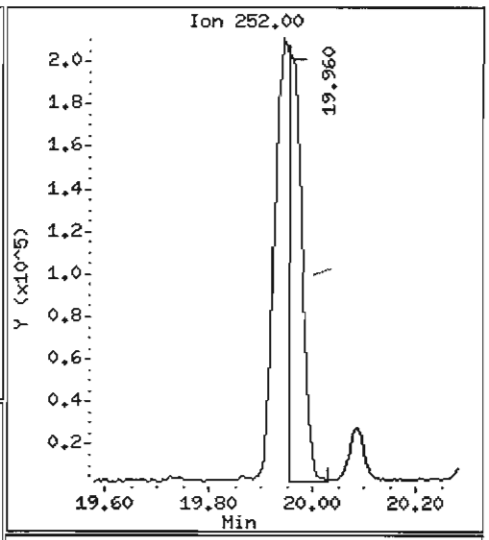
Concentration: 1415 ug/kg

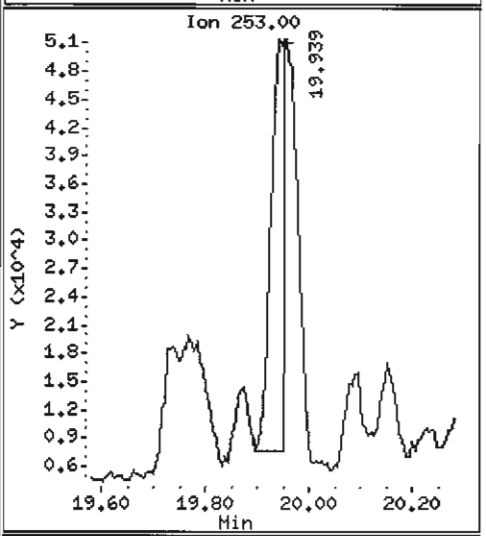


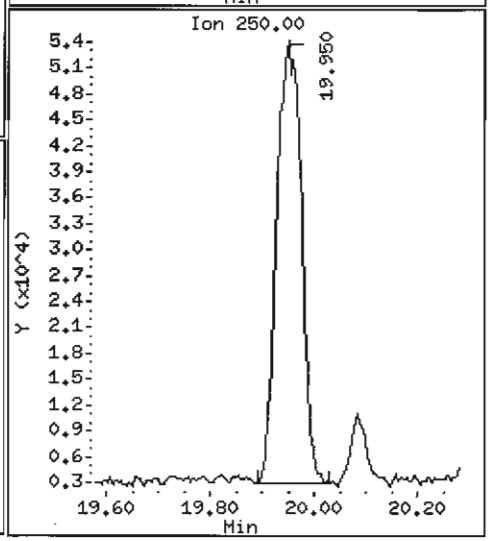












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

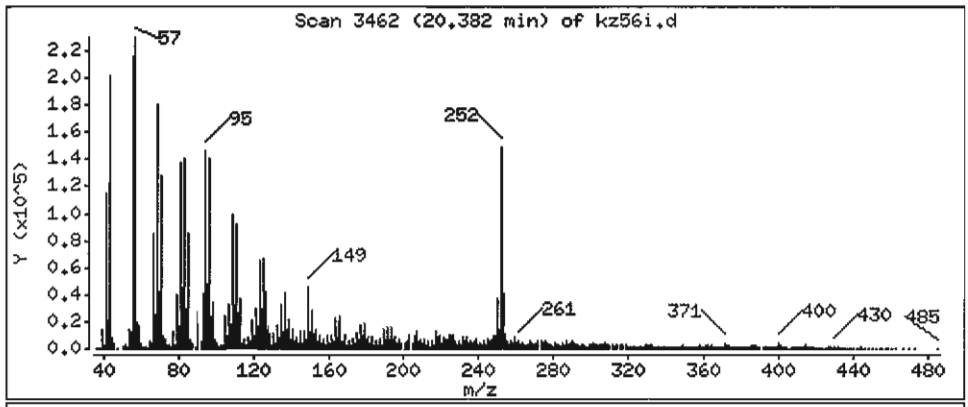
Operator: LJR/VTS

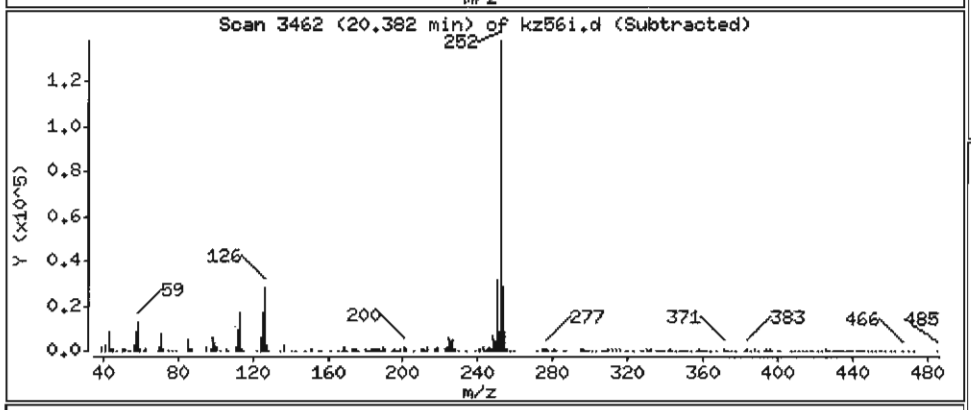
Column phase: ZB-5

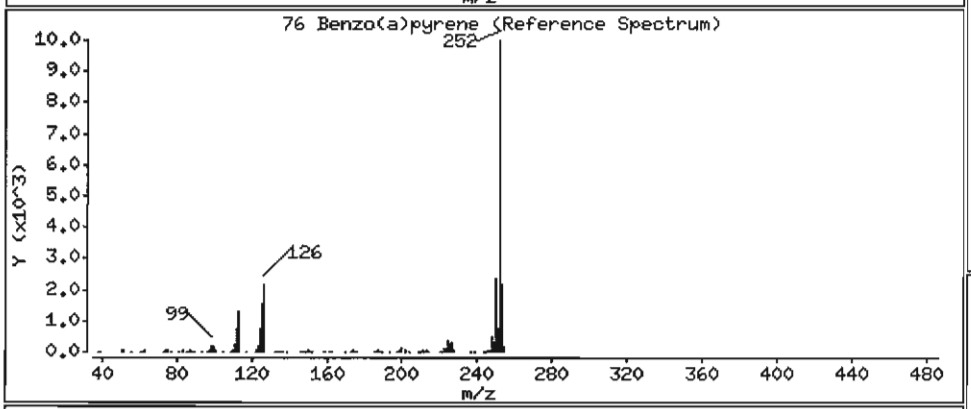
Column diameter: 0.32

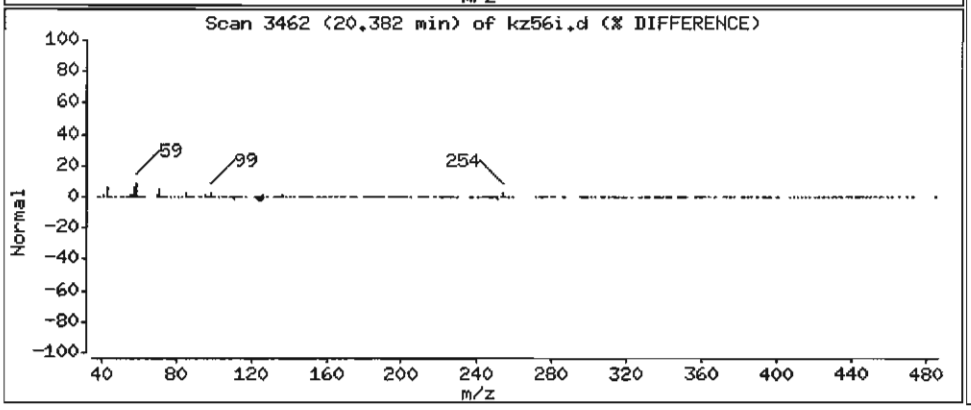
76 Benzo(a)pyrene

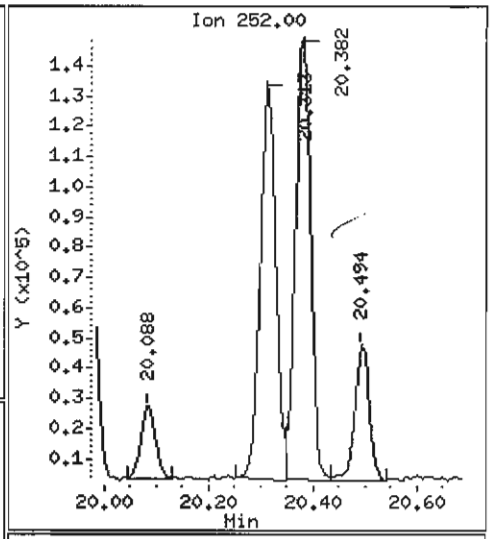
Concentration: 1140 ug/kg

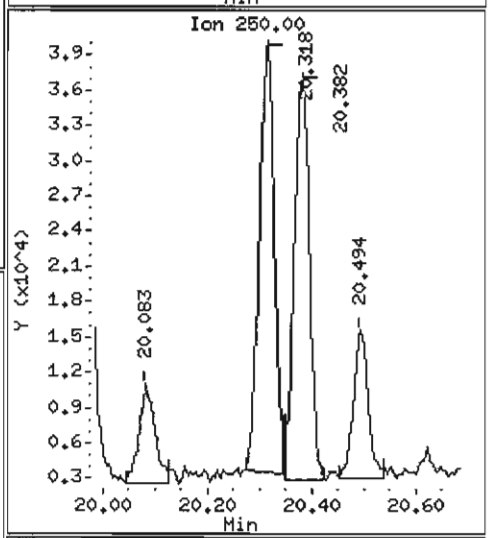


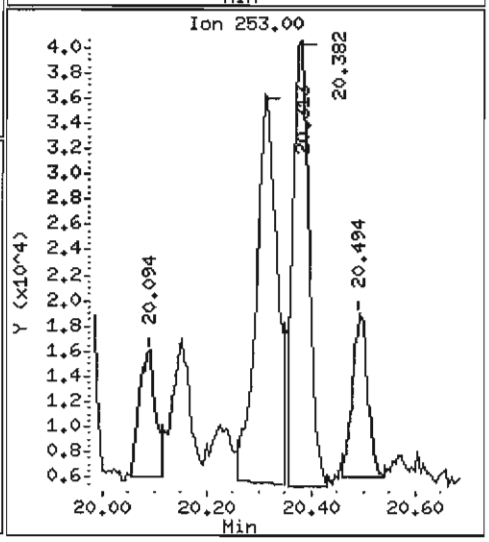












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

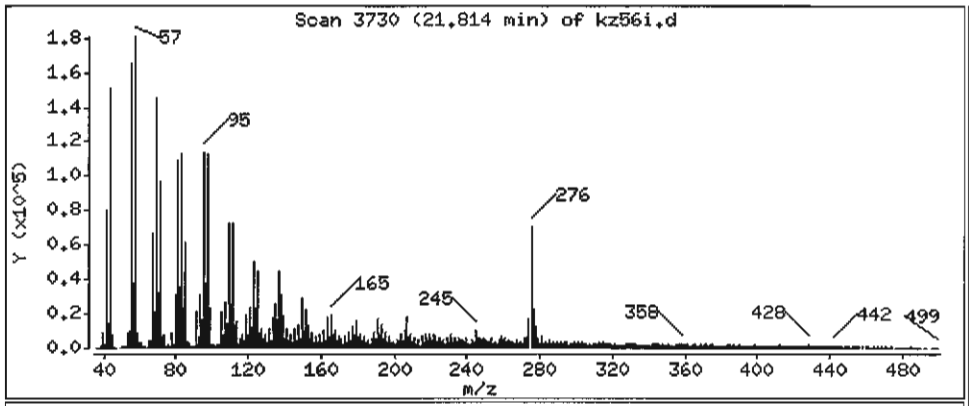
Operator: LJR/VTS

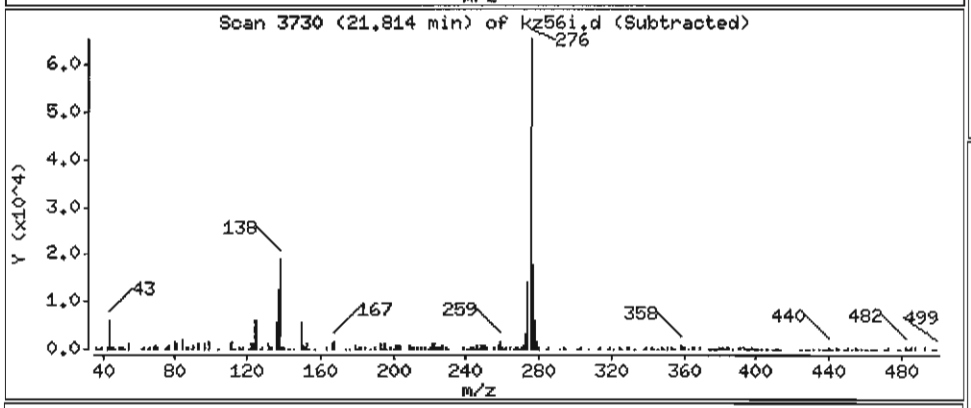
Column phase: ZB-5

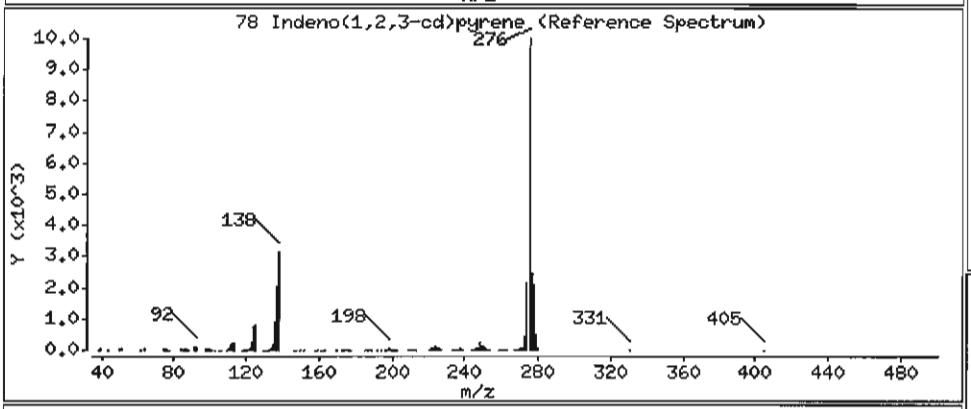
Column diameter: 0.32

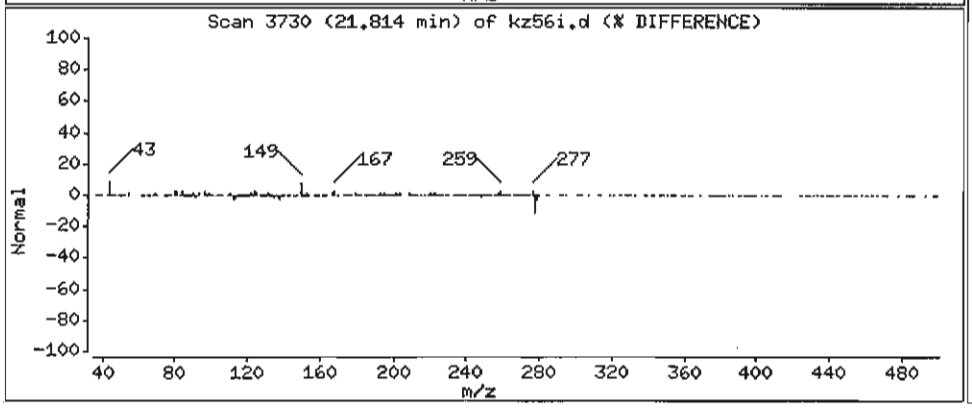
78 Indeno(1,2,3-cd)pyrene

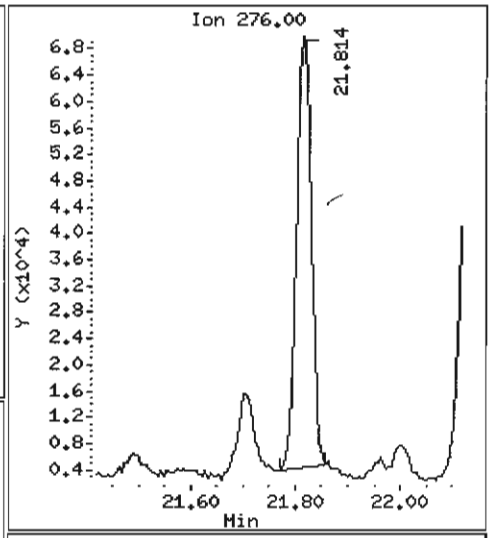
Concentration: 420.4 ug/kg

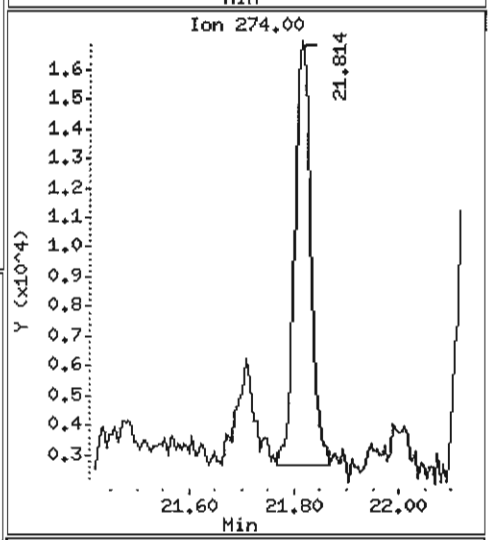


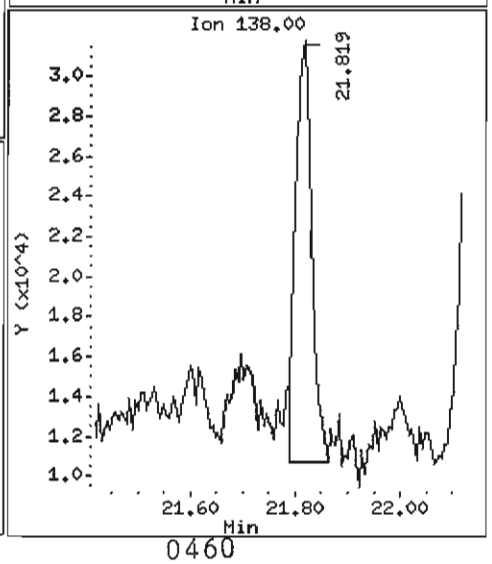












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

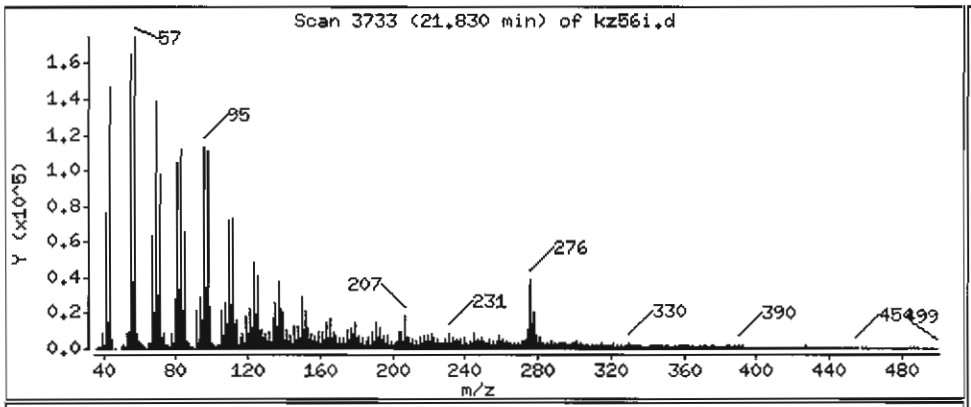
Operator: LJR/VTS

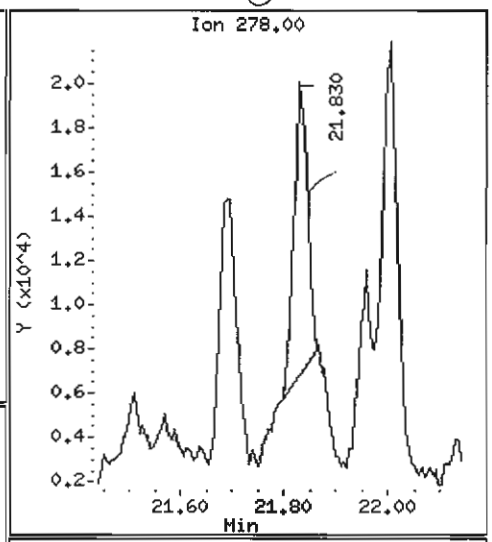
Column phase: ZB-5

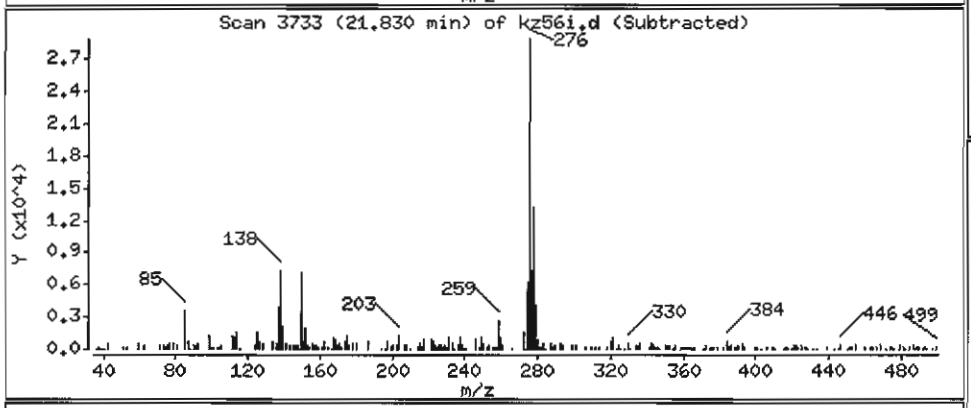
Column diameter: 0.32

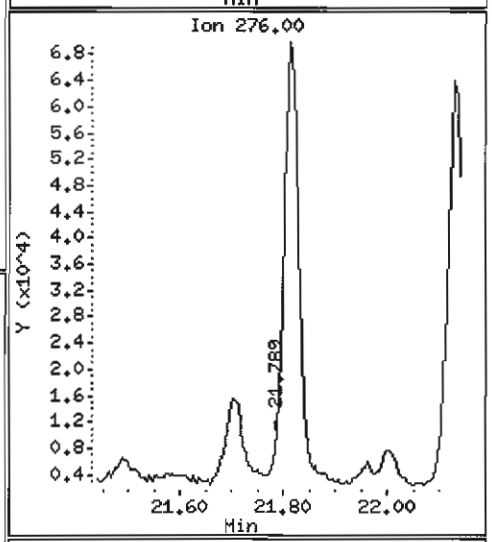
79 Dibenzo(a,h)anthracene

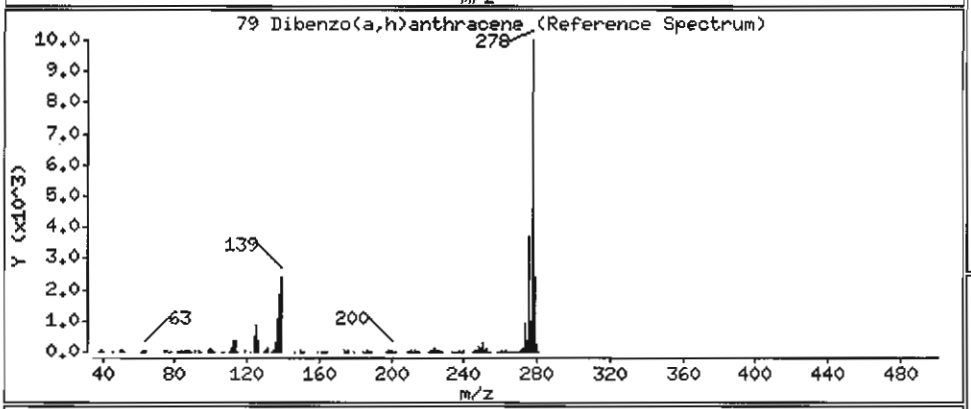
Concentration: 92.78 ug/kg

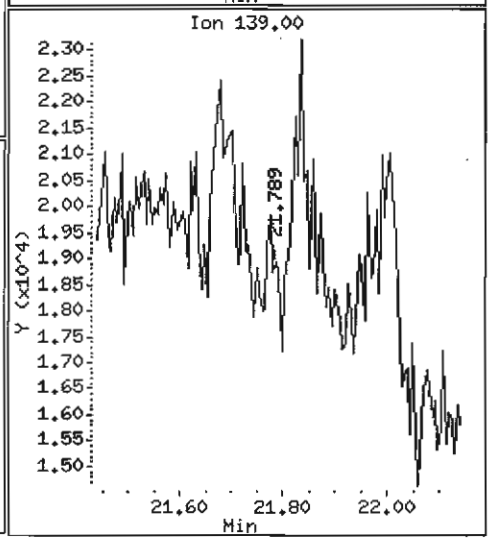


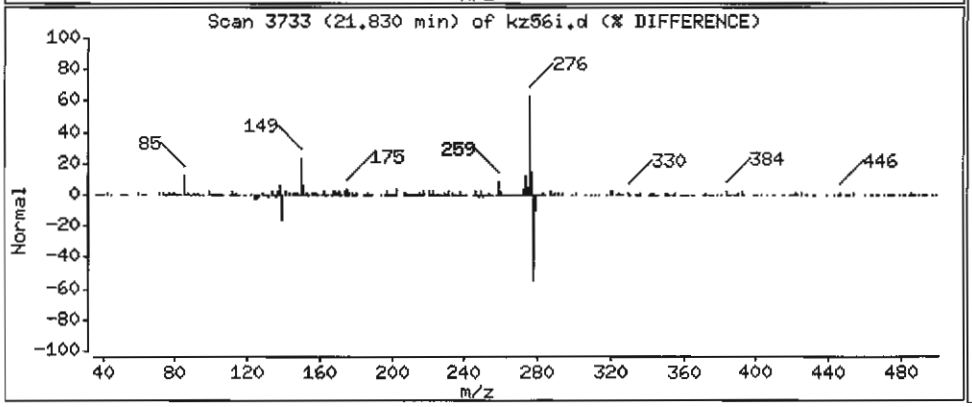












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

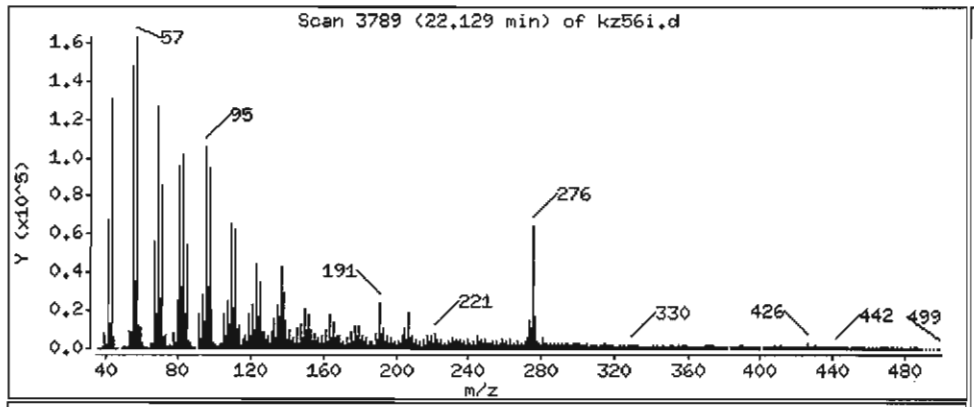
Operator: LJR/VTS

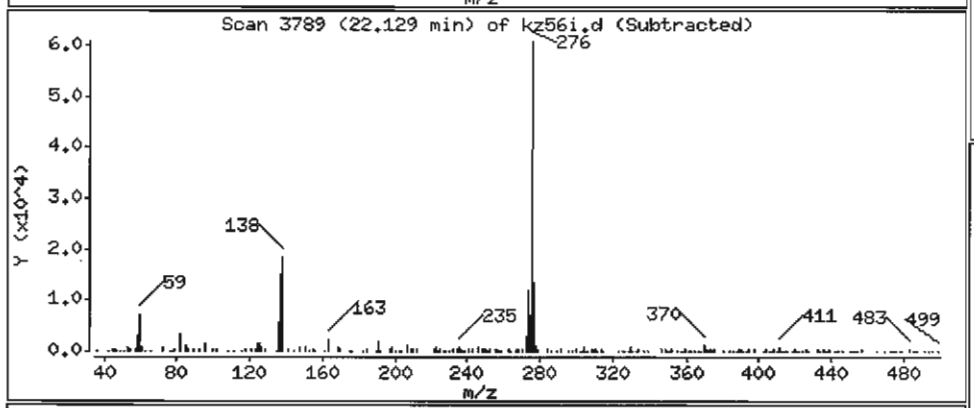
Column phase: ZB-5

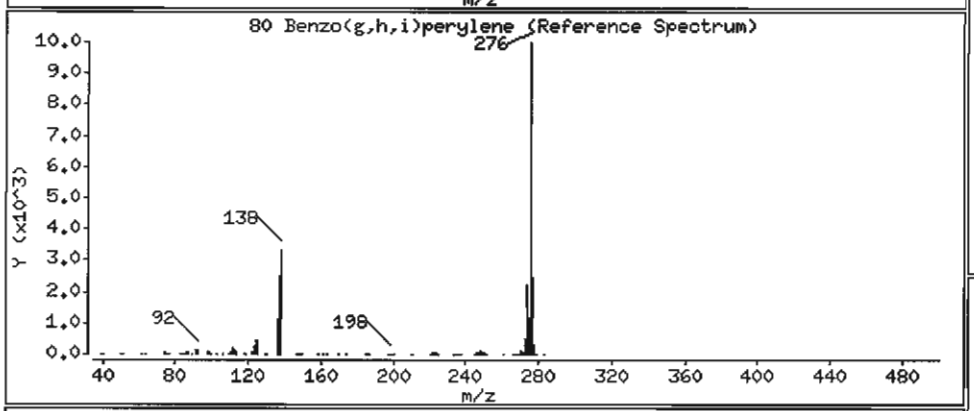
Column diameter: 0.32

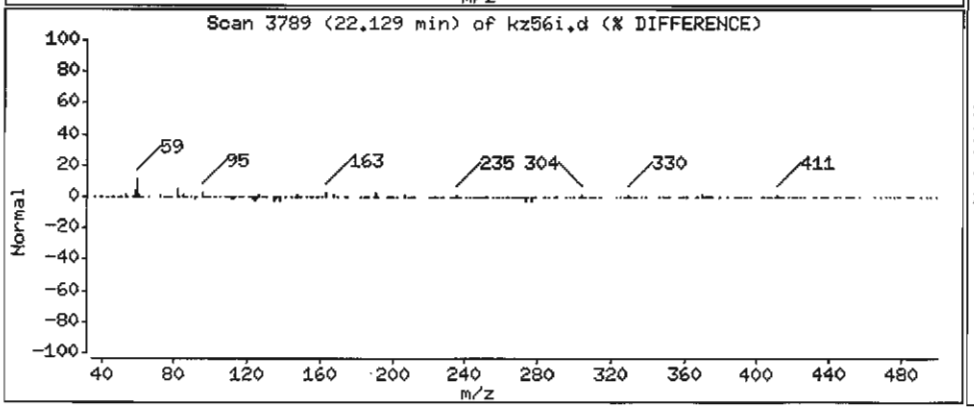
80 Benzo(g,h,i)perylene

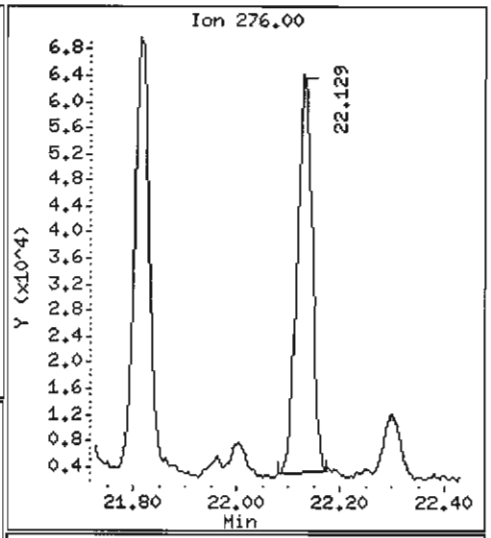
Concentration: 435.3 ug/kg

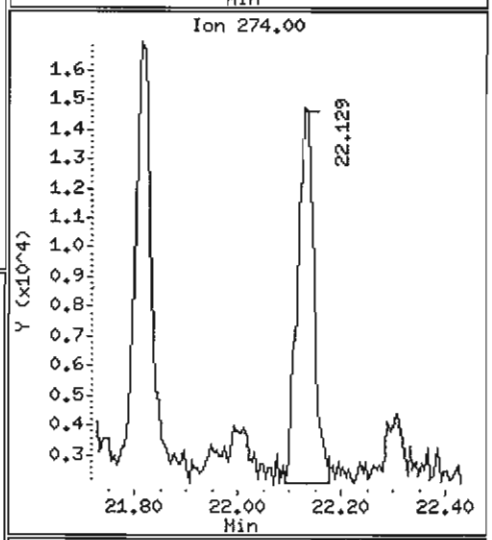


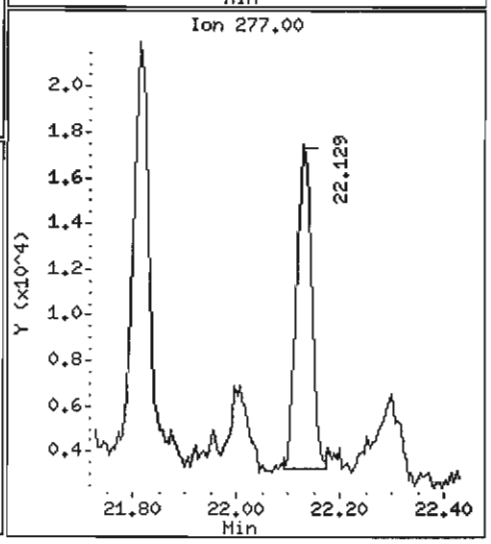












Data File: /chem1/nt6.i/20070529.b/kz56i.d

Date : 29-MAY-2007 12:05

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,3

Volume Injected (uL): 1.0

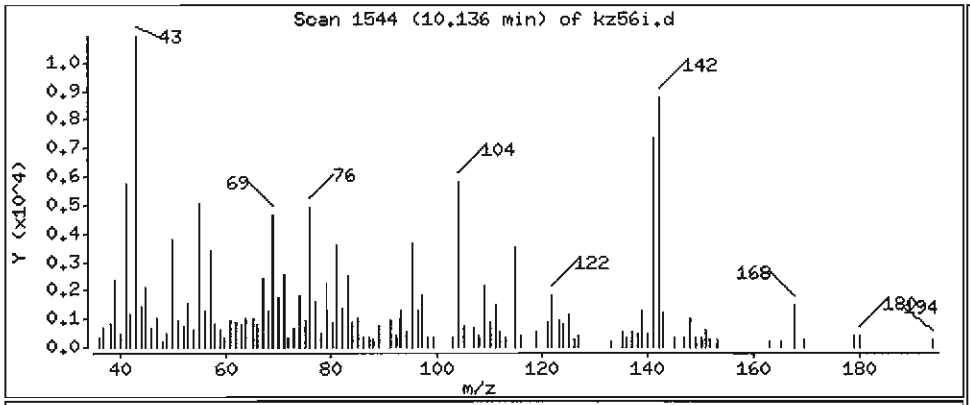
Operator: LJR/VTS

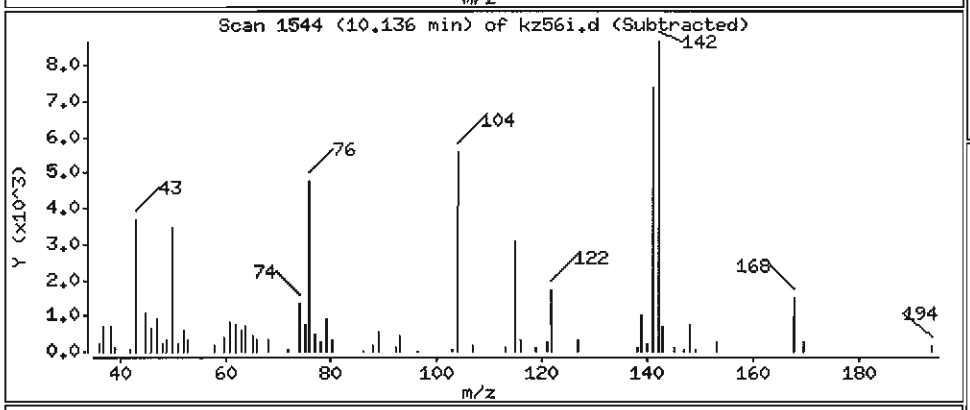
Column phase: ZB-5

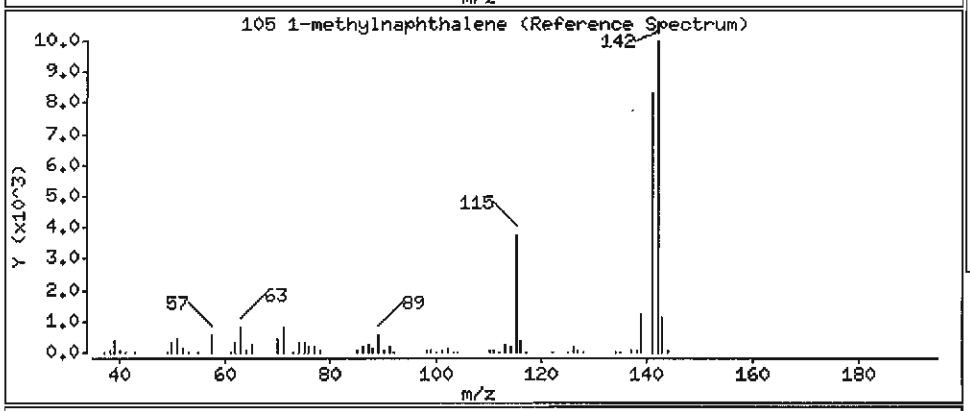
Column diameter: 0.32

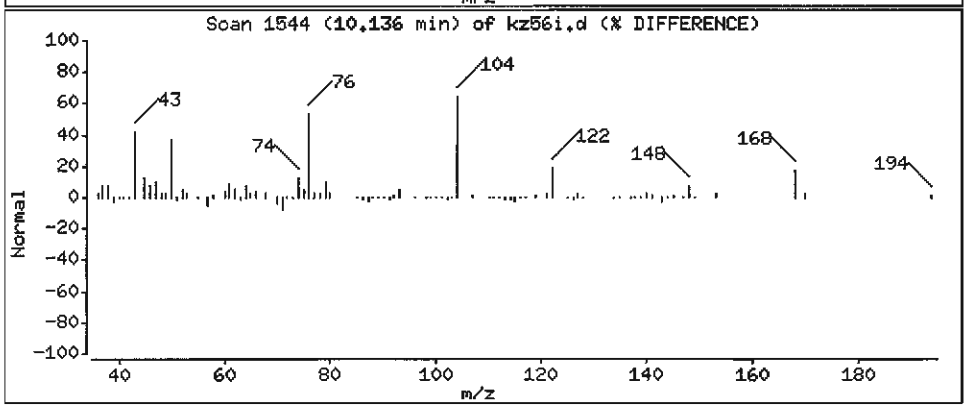
105 1-methylnaphthalene

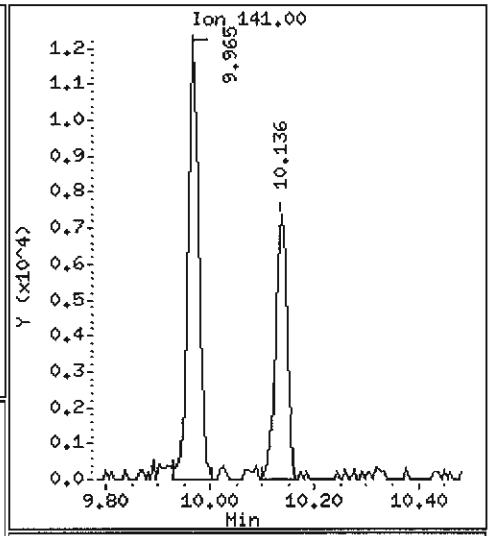
Concentration: 57.92 ug/kg

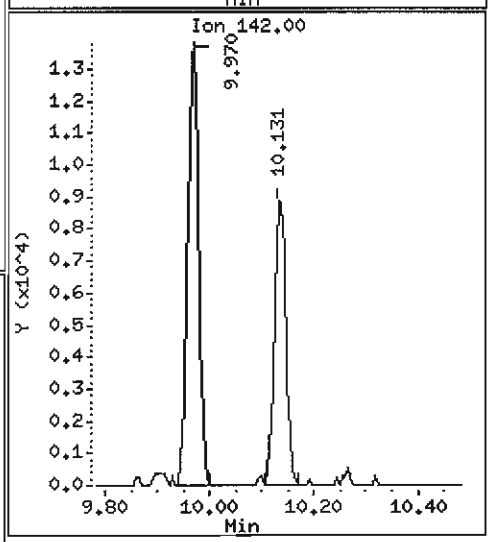












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC15-S
DILUTION

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 16:00
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 47.0%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**180**	**220**
91-57-6	2-Methylnaphthalene	180	< 180 U
208-96-8	Acenaphthylene	180	< 180 U
83-32-9	**Acenaphthene**	**180**	**100 J**
132-64-9	Dibenzofuran	180	< 180 U
86-73-7	Fluorene	180	< 180 U
85-01-8	**Phenanthrene**	**180**	**1,000**
120-12-7	**Anthracene**	**180**	**250**
206-44-0	**Fluoranthene**	**180**	**2,500**
129-00-0	**Pyrene**	**180**	**2,300**
56-55-3	**Benzo(a)anthracene**	**180**	**920**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180**	**5,100**
218-01-9	**Chrysene**	**180**	**1,300**
205-99-2	**Benzo(b)fluoranthene**	**180**	**2,000**
207-08-9	**Benzo(k)fluoranthene**	**180**	**1,200**
50-32-8	**Benzo(a)pyrene**	**180**	**1,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**180**	**490**
53-70-3	**Dibenz(a,h)anthracene**	**180**	**120 J**
191-24-2	**Benzo(g,h,i)perylene**	**180**	**510**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	72.4%
d14-p-Terphenyl	71.4%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	71.3%	2-Fluorophenol	63.2%
2,4,6-Tribromophenol	77.6%	d4-2-Chlorophenol	72.3%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56idl.d
Lab Smp Id: KZ56I — Client Smp ID: Y3-RC15-S
Inj Date : 29-MAY-2007 16:00
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56I,5
Misc Info : 07-9555
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 13
Dil Factor: 5.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/30/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	51.10000	Weight of sample extracted (g)
M	47.00000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.925	4.903	(0.723)	94753	4.74007	875.1
$ 2 Phenol-d5	99	6.458	6.447	(0.948)	125539	5.35241	988.1
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.528	6.521	(0.958)	87826	5.41545	999.8
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.811	6.805	(1.000)	219869	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.099	7.093	(1.042)	34270	3.45566	638.0
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.730	7.729	(0.876)	72096	3.89874	719.8
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.825	8.819	(1.000)	777145	20.0000	
	28 Naphthalene	128	8.851	8.851	(1.003)	55014	1.19512	220.6
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.620	10.619	(0.911)	97869	3.62012	668.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.656	11.655	(1.000)	400570	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.704	11.703	(1.004)	14529	0.57478 LOL	106.1(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.944	12.937	(1.110)	23751	5.82389	1075
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.012	14.001	(1.000)	571036	20.0000	
	60 Phenanthrene	178	14.044	14.038	(1.002)	215136	5.64528	1042
	61 Anthracene	178	14.113	14.107	(1.007)	53381	1.35566	250.3
	62 Carbazole	167	14.418	14.412	(1.029)	39691	1.17140	216.3(M)
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.973	15.956	(1.140)	493838	13.6582	2522
65 Pyrene	202	16.320	16.303	(0.892)	515251	12.4741	2303
$ 66 Terphenyl-d14	244	16.662	16.650	(0.910)	93387	3.57020	659.1
67 Butylbenzylphthalate	149	17.570	17.558	(0.960)	31873	1.64115	303.0(M)
68 Benzo(a)anthracene	228	18.275	18.253	(0.999)	185812	4.99603	922.5
* 69 Chrysene-d12	240	18.302	18.280	(1.000)	497812	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.339	18.322	(1.002)	273117	7.26042	1340
72 bis(2-Ethylhexyl)phthalate	149	18.590	18.573	(0.952)	698929	27.5526	5087(M)
* 134 Di-n-octylphthalate-d4	153	19.525	19.503	(1.000)	740616	20.0000	
73 Di-n-octylphthalate	149	19.541	19.514	(1.001)	43612	0.99123 LOL	183.0(M)
74 Benzo(b)fluoranthene	252	19.931	19.898	(0.975)	271194	10.6741	1971(M)
75 Benzo(k)fluoranthene	252	19.947	19.930	(0.975)	162716	6.66681	1231(M)
76 Benzo(a)pyrene	252	20.369	20.336	(0.996)	154738	6.08479	1123
* 77 Perylene-d12	264	20.449	20.416	(1.000)	391852	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.801	21.768	(1.066)	79098	2.63086	485.7
79 Dibenzo(a,h)anthracene	278	21.822	21.789	(1.067)	16083	0.64587 LOL	119.2(M)
80 Benzo(g,h,i)perylene	276	22.111	22.078	(1.081)	76420	2.77464	512.2
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56idl.d
Lab Smp Id: KZ56I
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9555

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC15-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	219869	1.00
27 Naphthalene-d8	775413	387706	1550826	777145	0.22
42 Acenaphthene-d10	371068	185534	742136	400570	7.95
59 Phenanthrene-d10	554165	277082	1108330	571036	3.04
69 Chrysene-d12	436021	218010	872042	497812	14.17
134 Di-n-octylphthala	773344	386672	1546688	740616	-4.23
77 Perylene-d12	622369	311184	1244738	391852	-37.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.09
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.07
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.01
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.08
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.12
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.11
77 Perylene-d12	20.42	19.92	20.92	20.45	0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56I
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9555

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC15-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1385	875.1	63.20	11-84
$ 2 Phenol-d5	1385	988.1	71.37	25-86
$ 5 2-Chlorophenol-d4	1385	999.8	72.21	23-91
$ 10 1,2-Dichlorobenzen	923.1	638.0	69.11	24-90
$ 18 Nitrobenzene-d5	923.1	719.8	77.97	26-88
$ 36 2-Fluorobiphenyl	923.1	668.3	72.40	34-91
$ 55 2,4,6-Tribromophen	1385	1075	77.65	25-107
$ 66 Terphenyl-d14	923.1	659.1	71.40	22-100

Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Sample Info: KZ56I,5

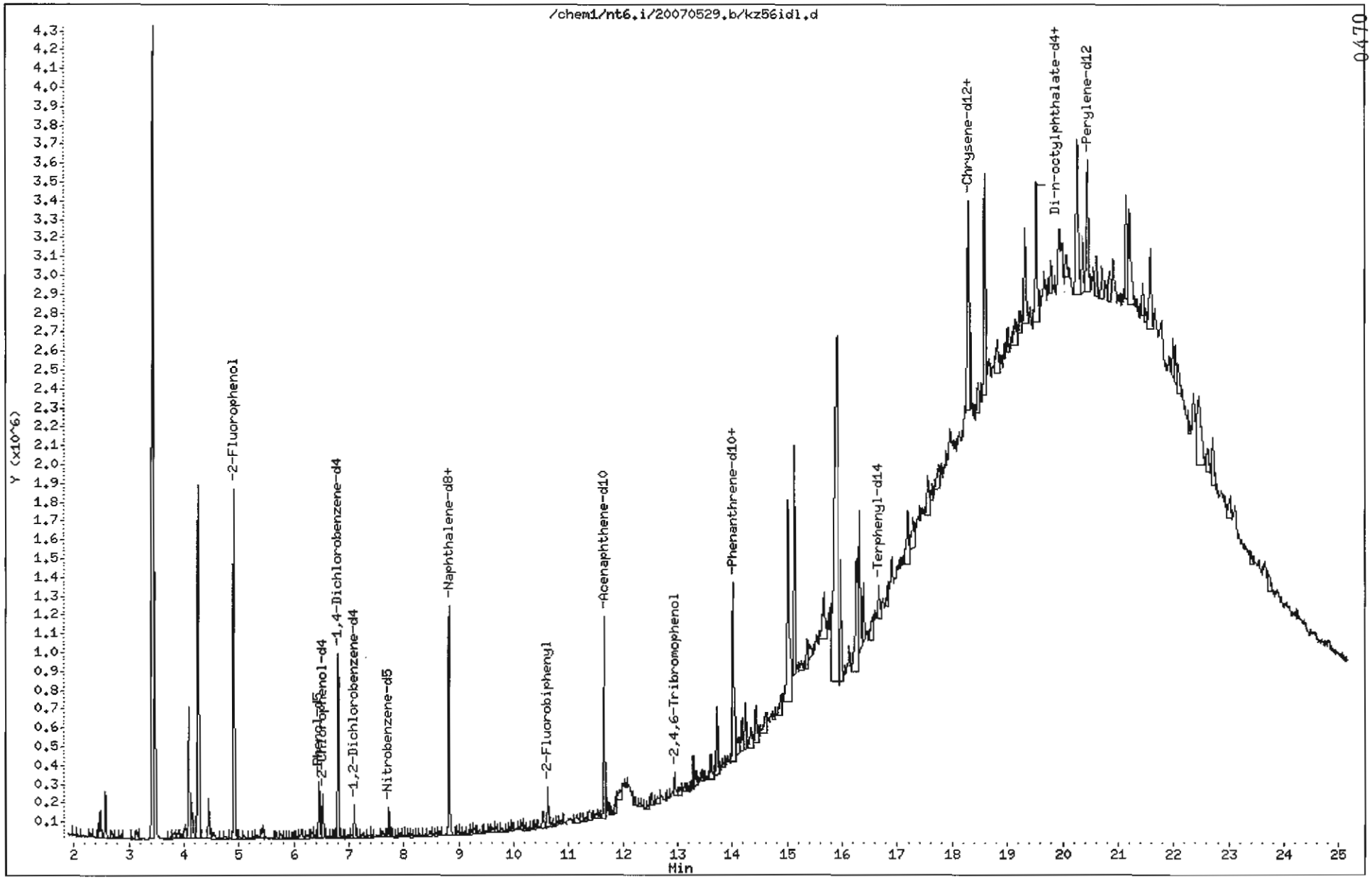
Volume Injected (uL): 1.0

Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32



0470

Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

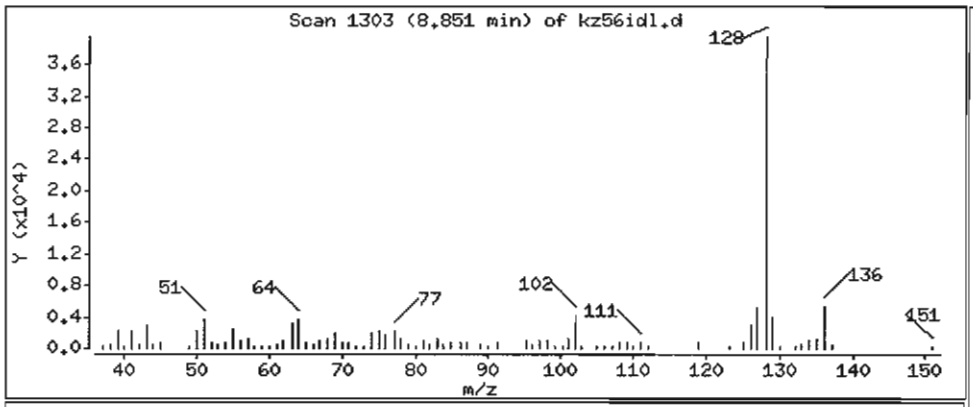
Operator: LJR/VTS

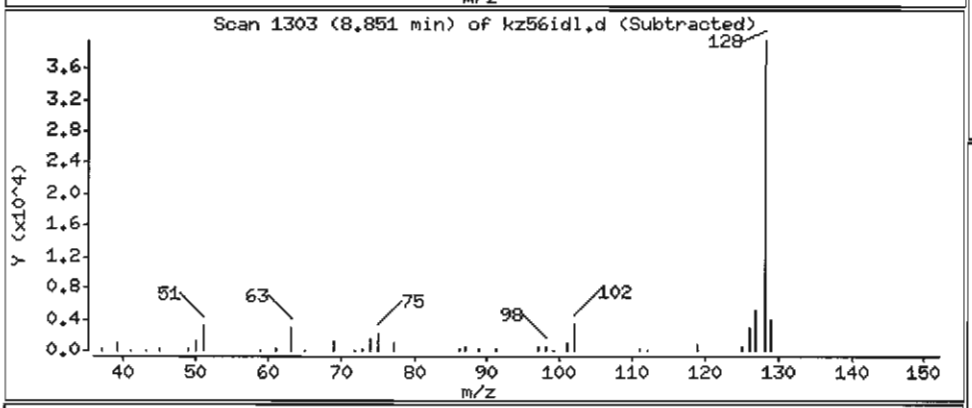
Column phase: ZB-5

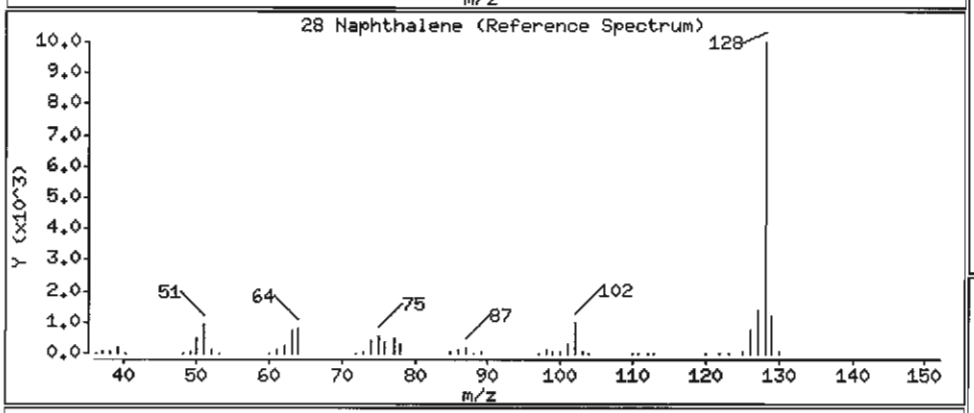
Column diameter: 0.32

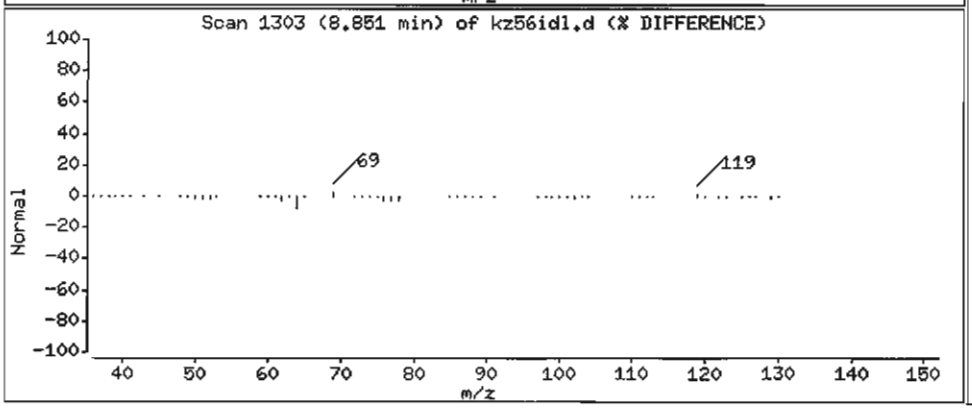
28 Naphthalene

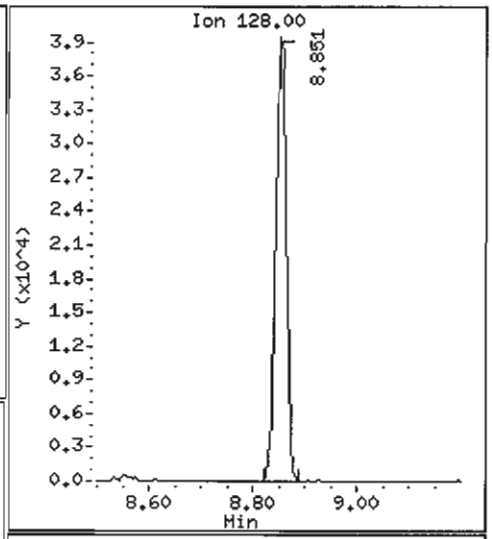
Concentration: 220.6 ug/kg

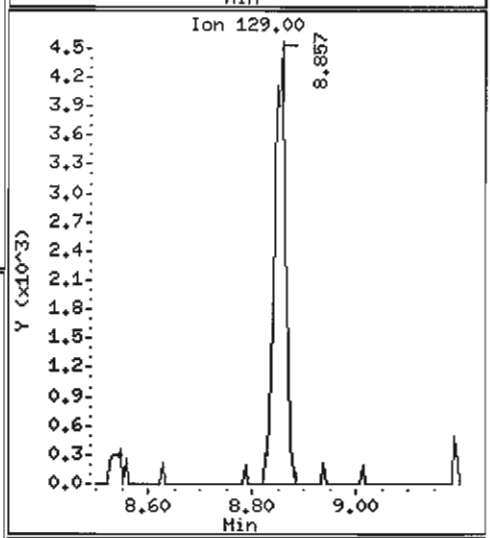


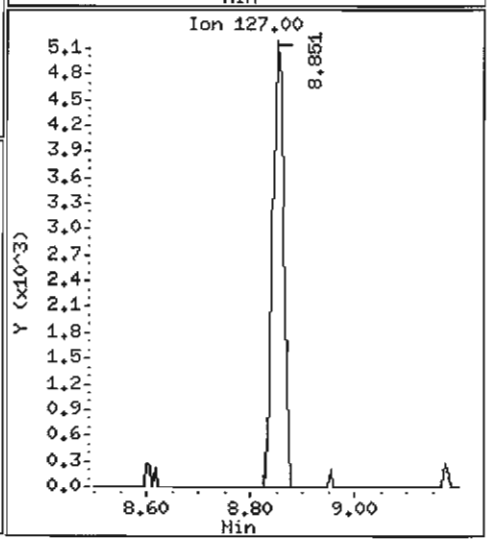












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

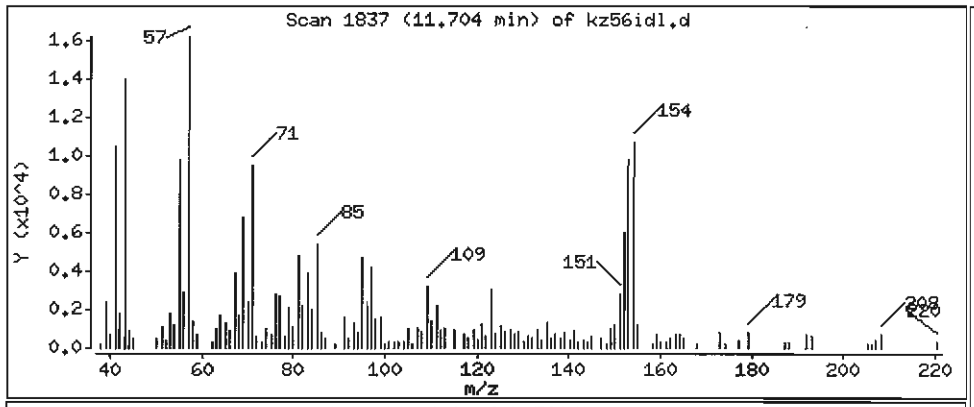
Operator: LJR/VTS

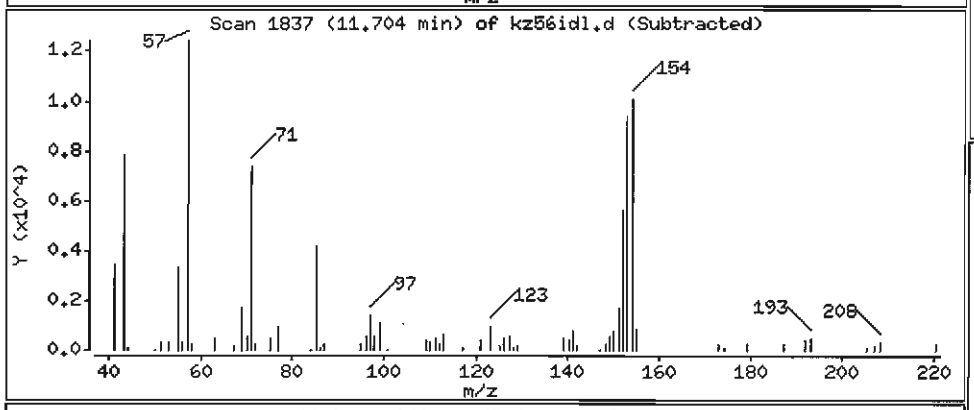
Column phase: ZB-5

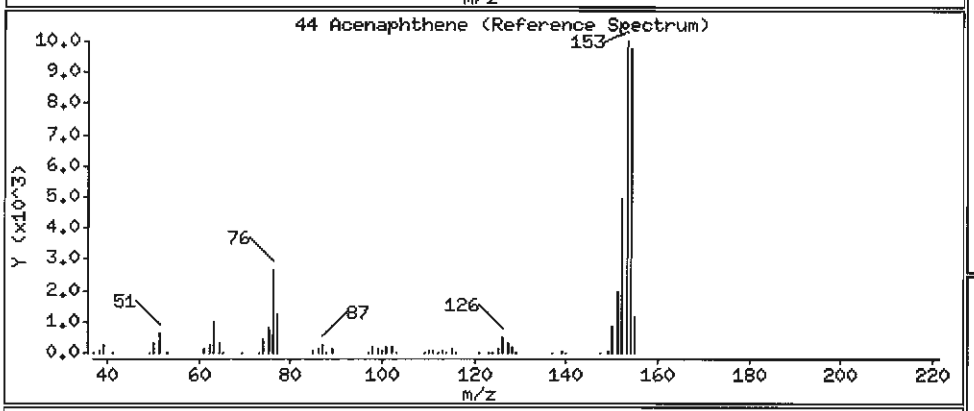
Column diameter: 0.32

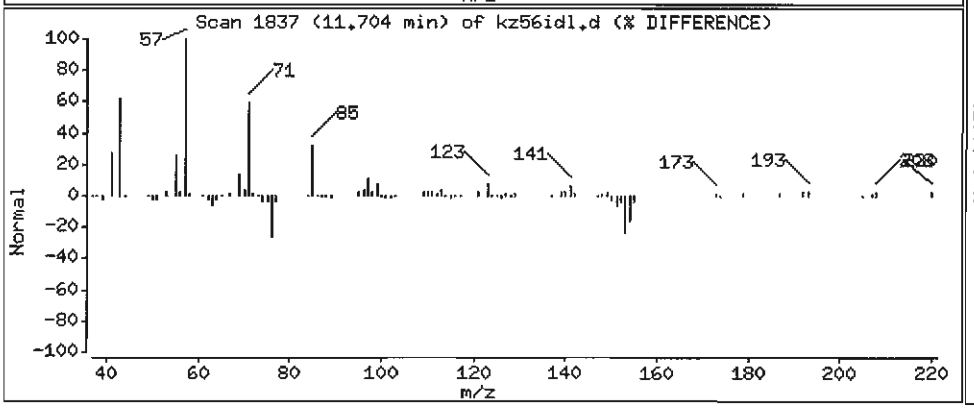
44 Acenaphthene

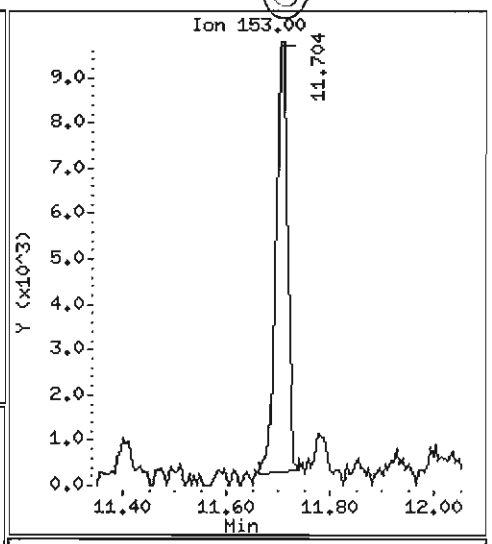
Concentration: 106.1 ug/kg

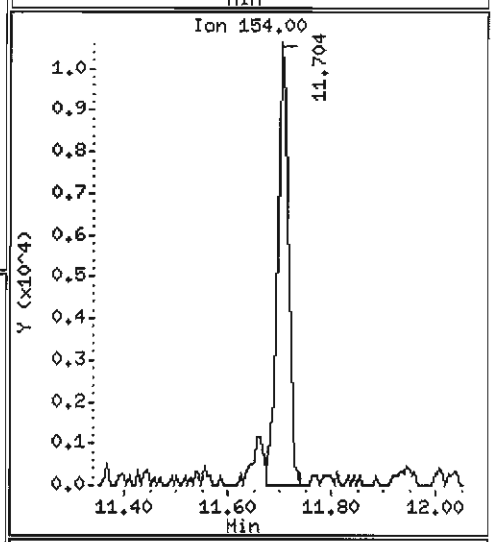


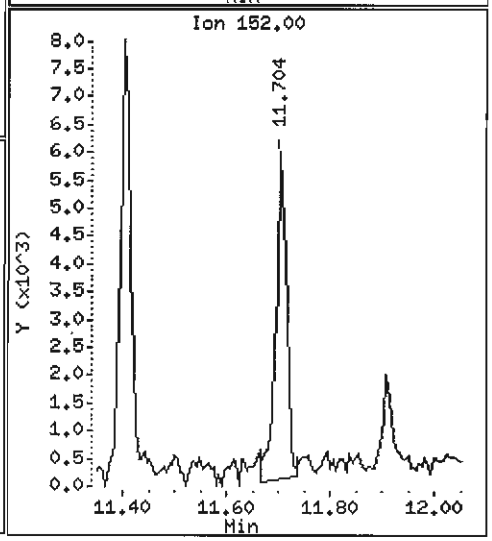












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

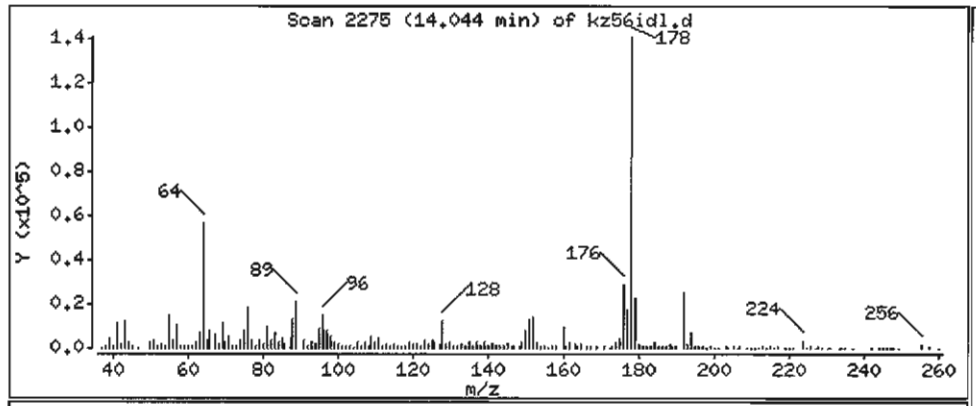
Operator: LJR/VTS

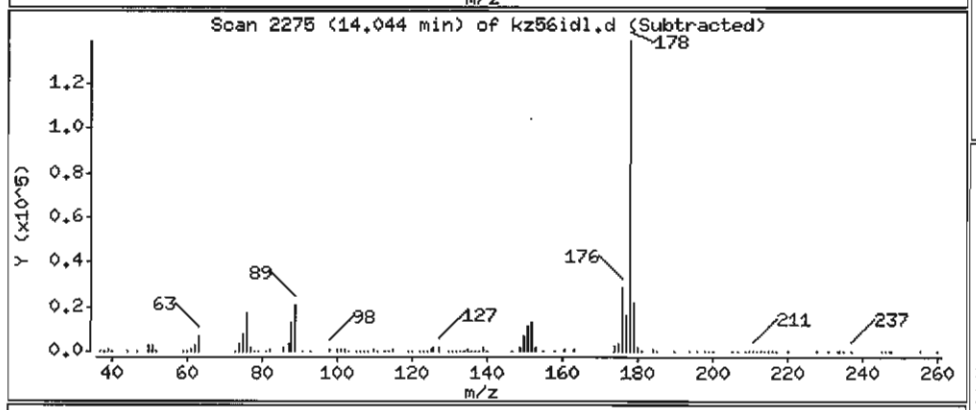
Column phase: ZB-5

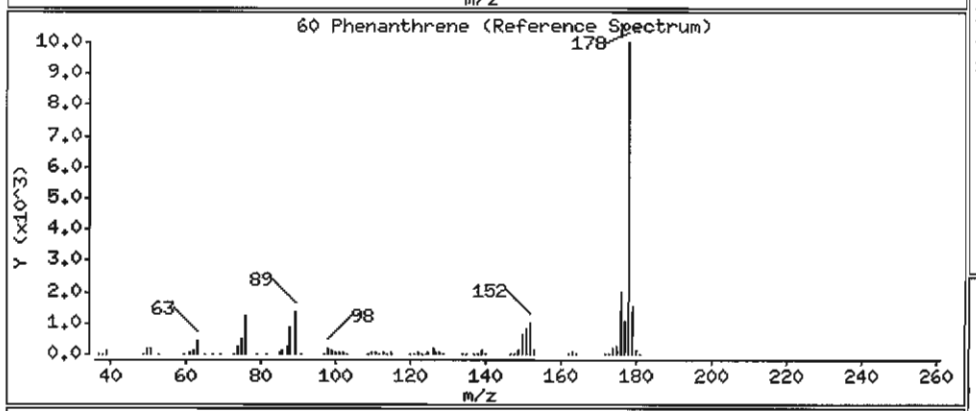
Column diameter: 0.32

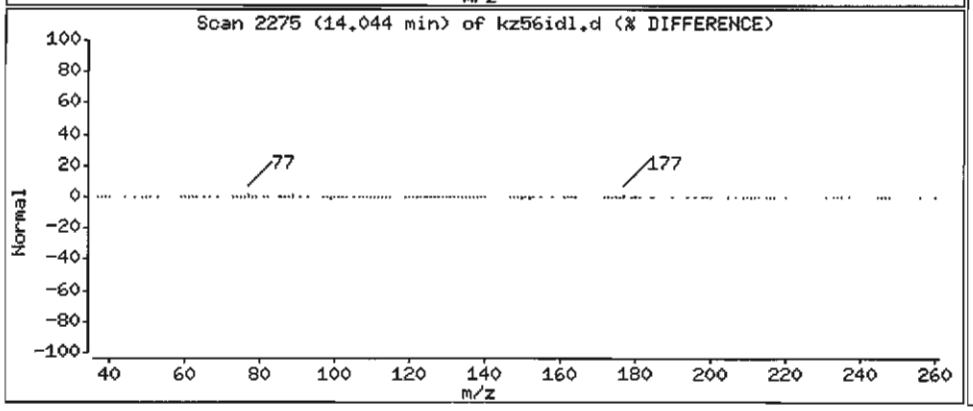
60 Phenanthrene

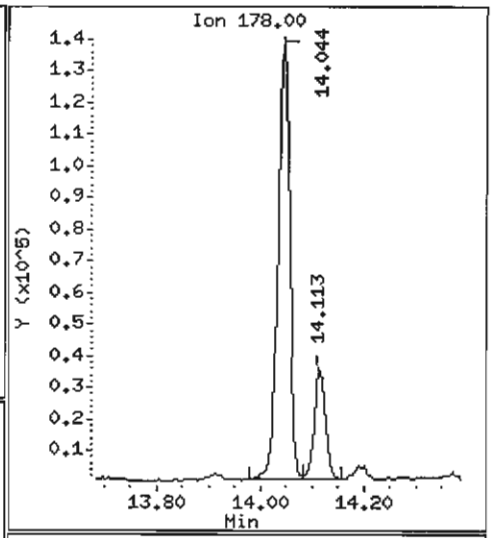
Concentration: 1042 ug/kg

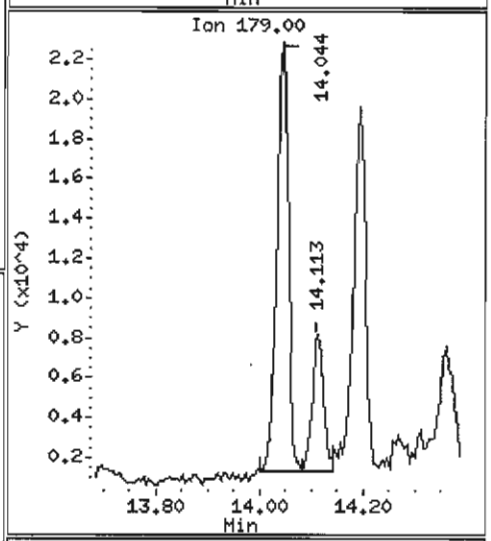


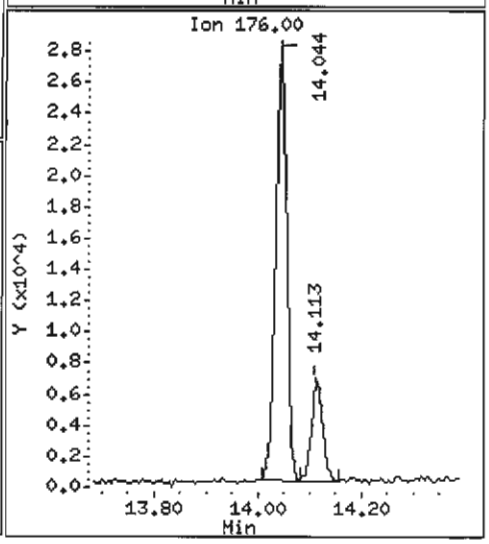












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

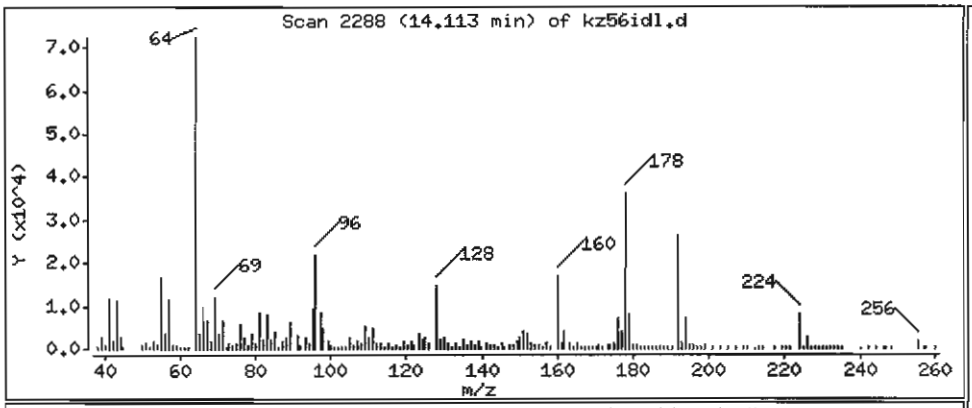
Operator: LJR/VTS

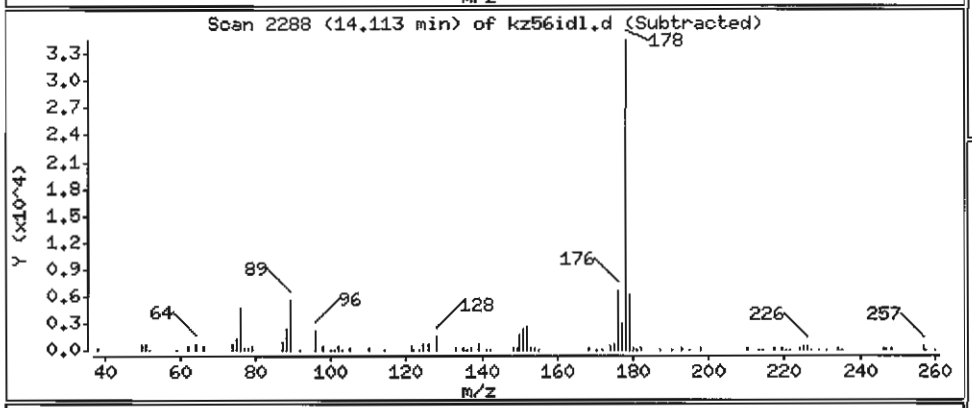
Column phase: ZB-5

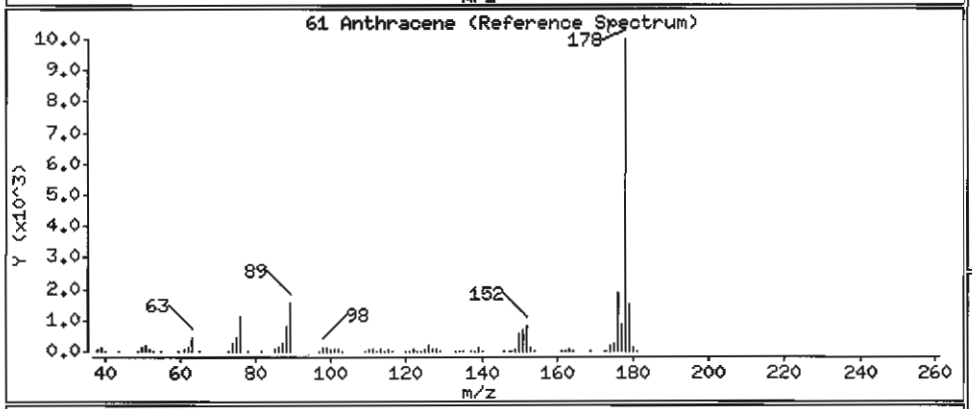
Column diameter: 0.32

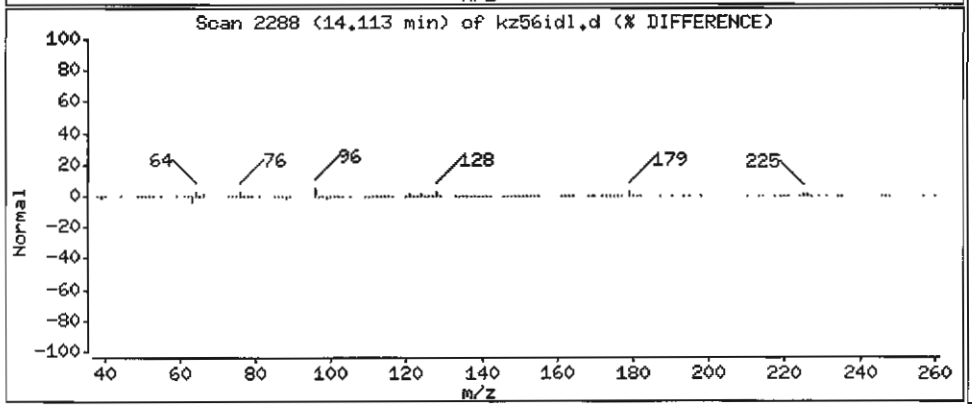
61 Anthracene

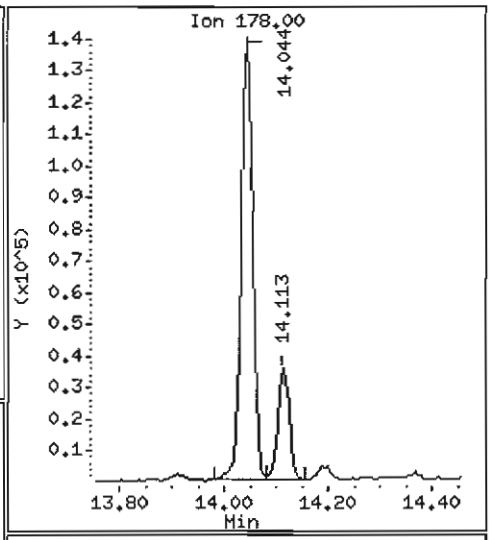
Concentration: 250.3 ug/kg

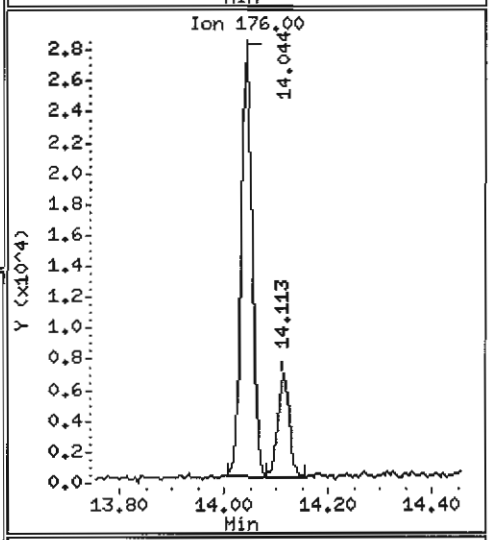


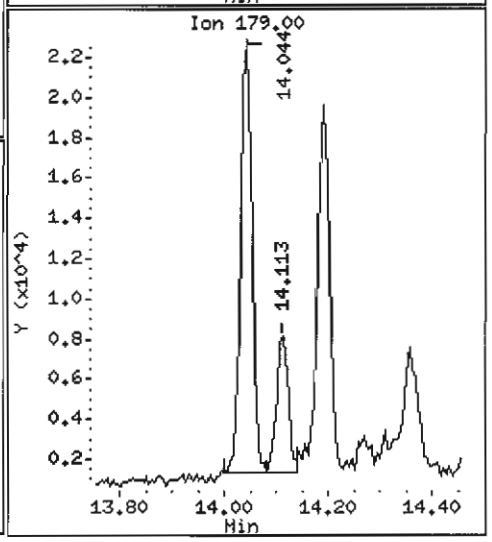












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

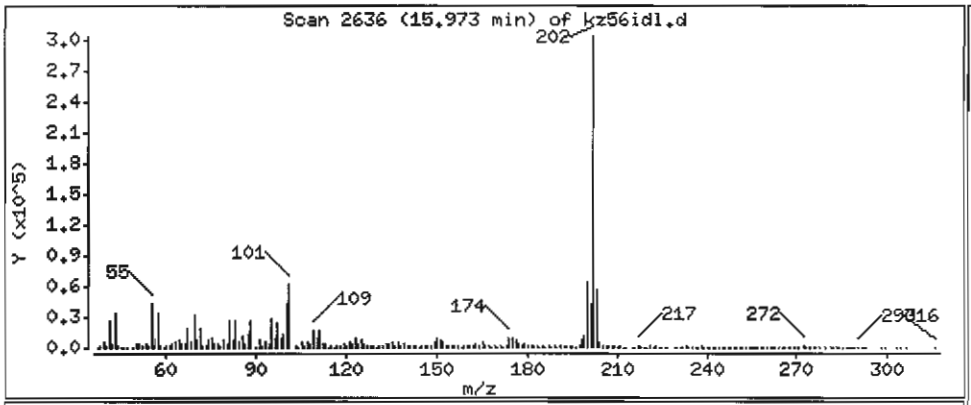
Operator: LJR/VTS

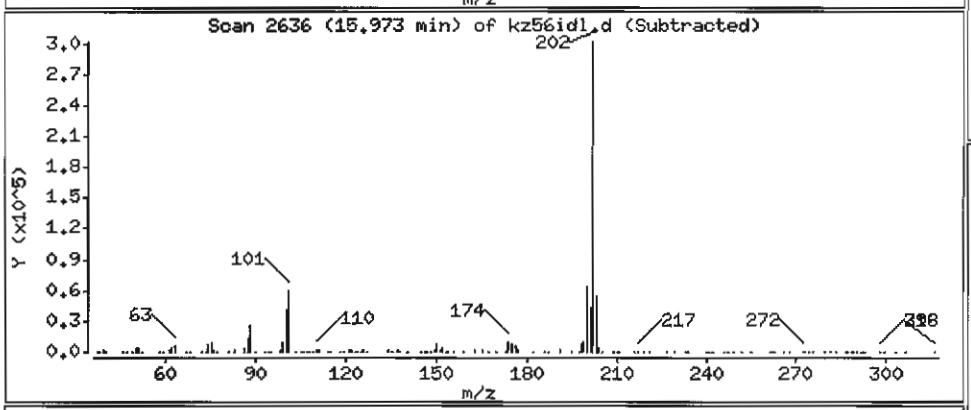
Column phase: ZB-5

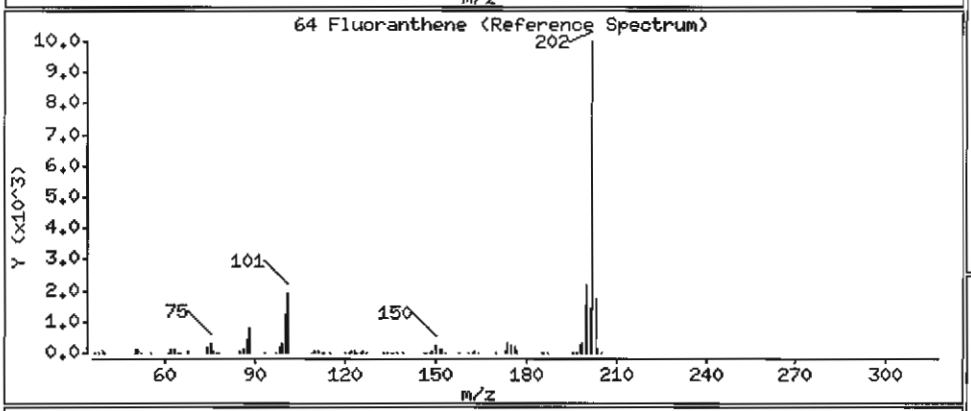
Column diameter: 0.32

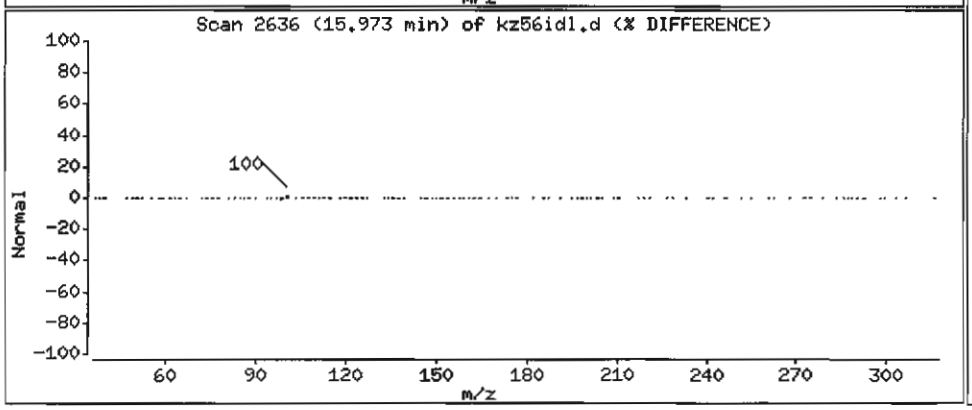
64 Fluoranthene

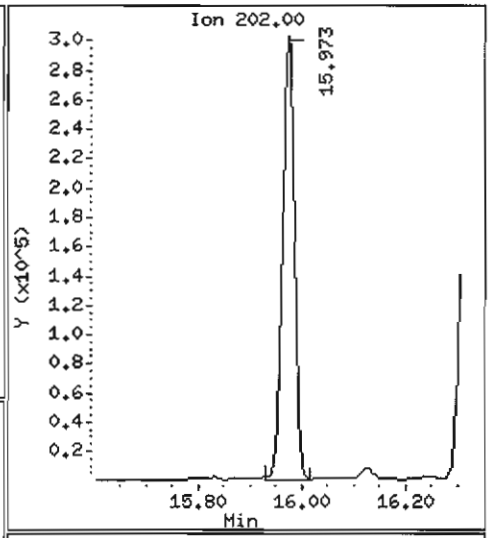
Concentration: 2522 ug/kg

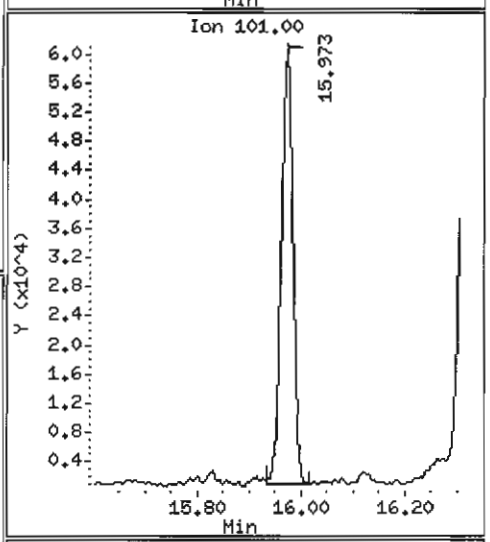


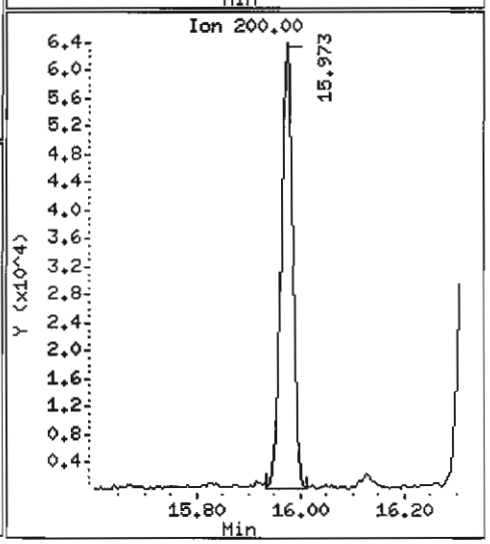












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

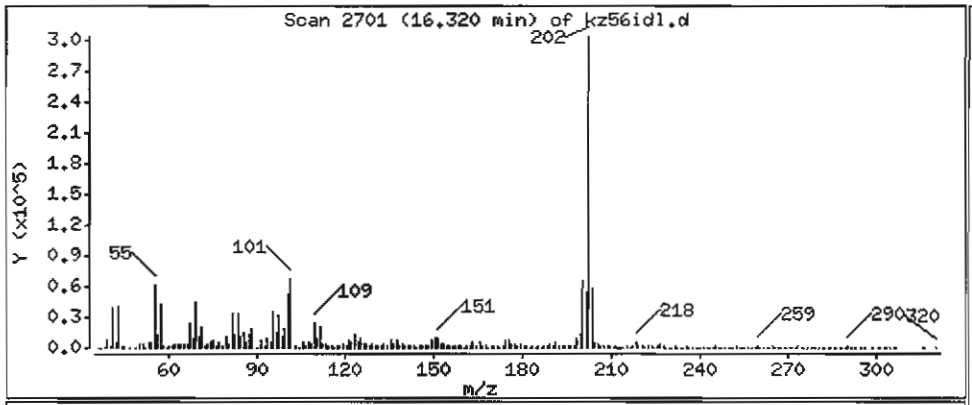
Operator: LJR/VTS

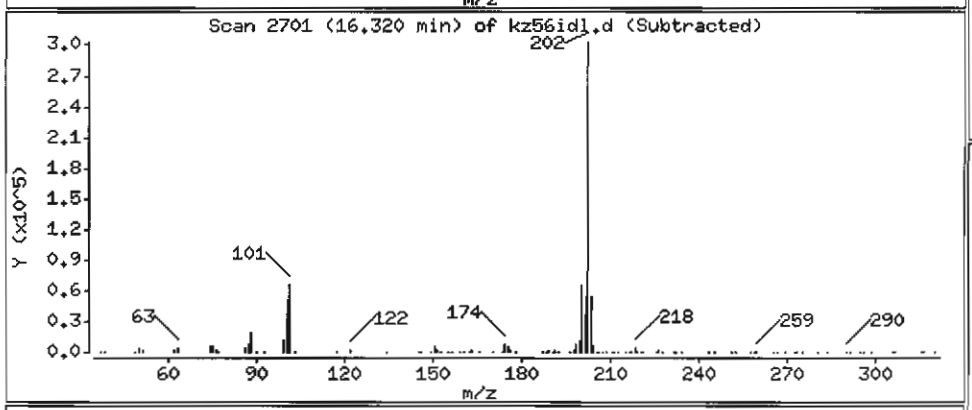
Column phase: ZB-5

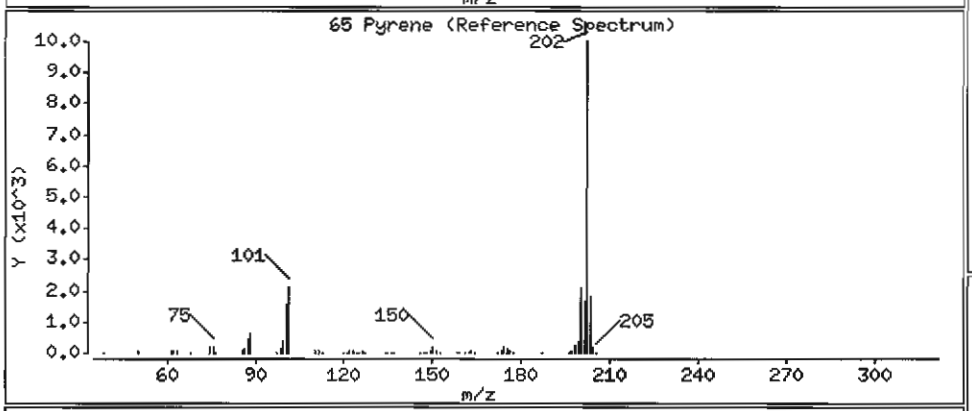
Column diameter: 0.32

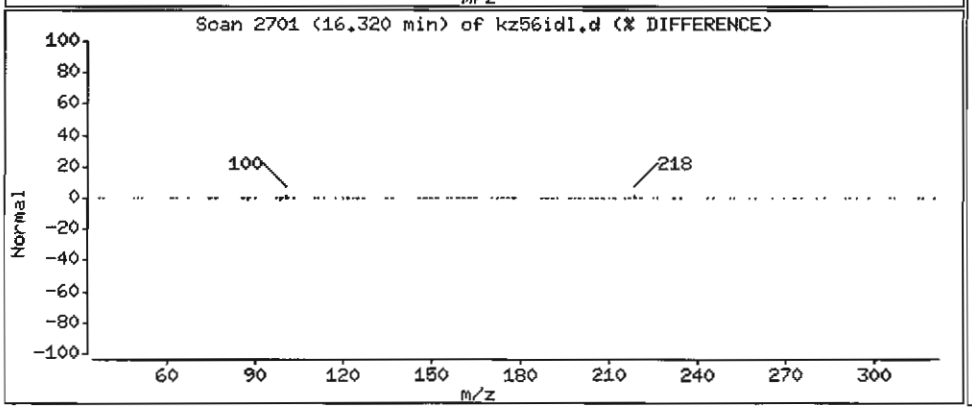
65 Pyrene

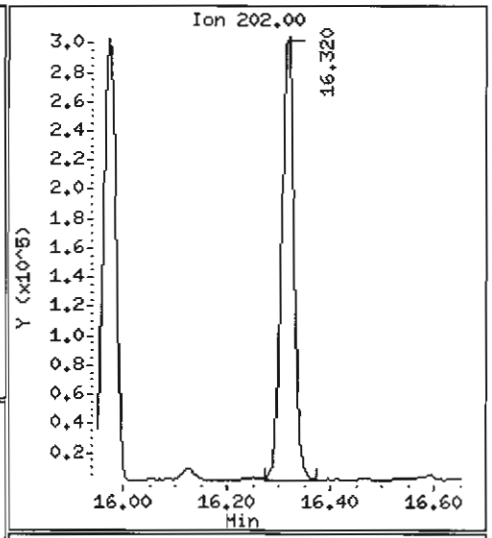
Concentration: 2303 ug/kg

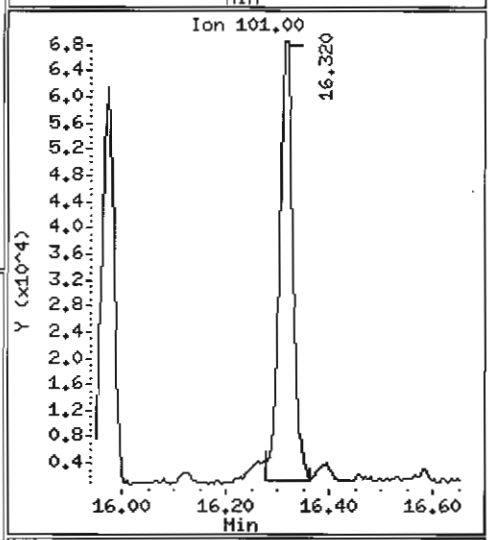


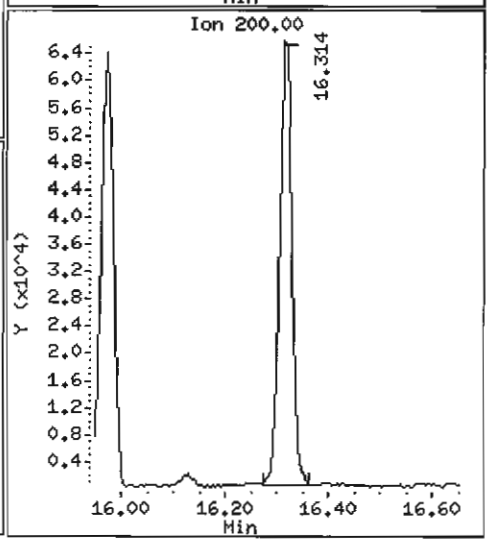












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

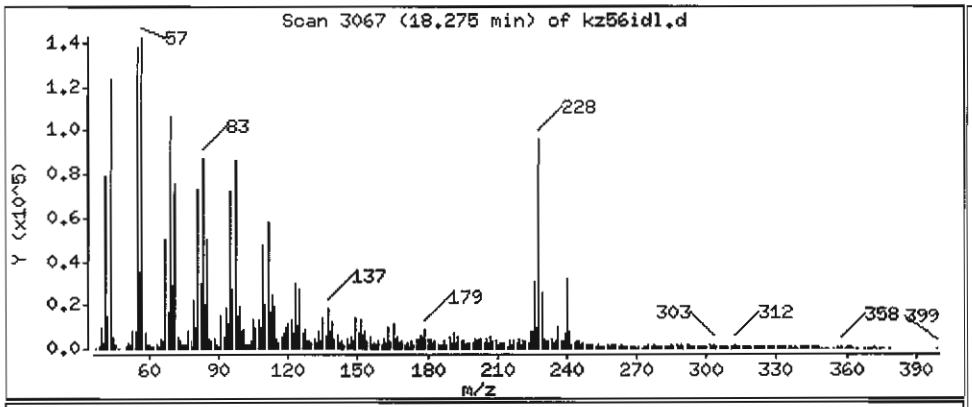
Operator: LJR/VTS

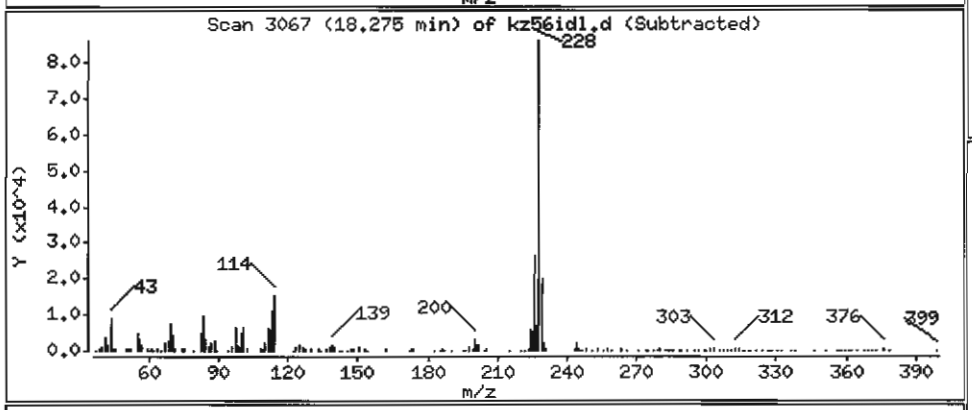
Column phase: ZB-5

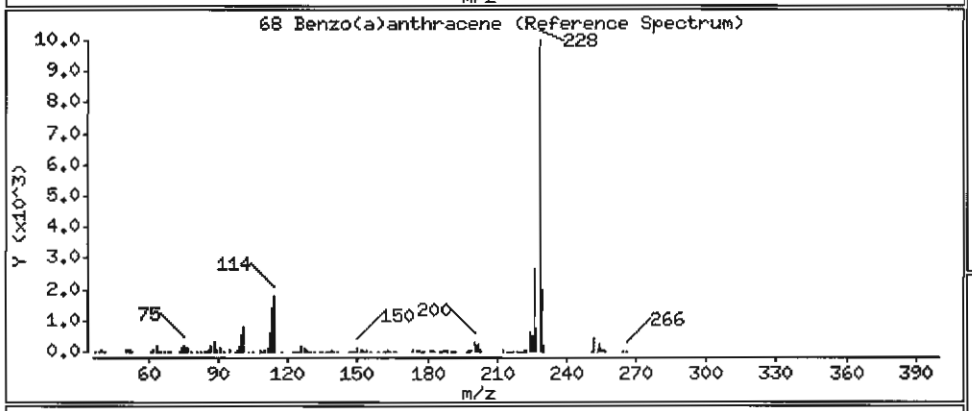
Column diameter: 0.32

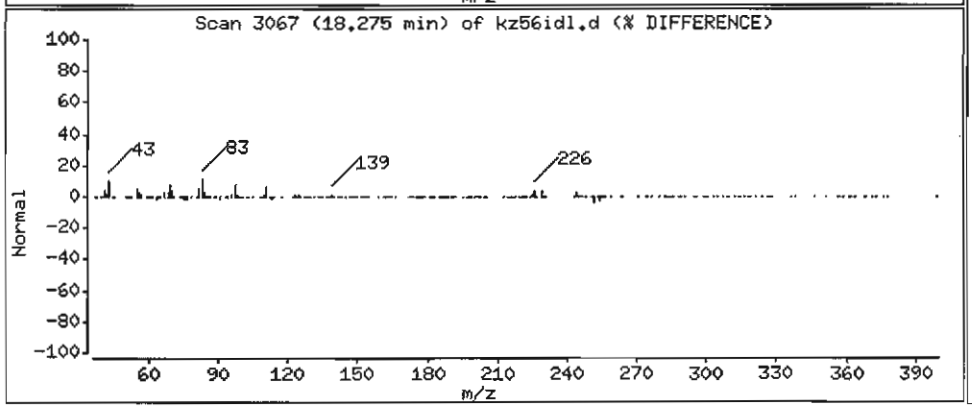
68 Benzo(a)anthracene

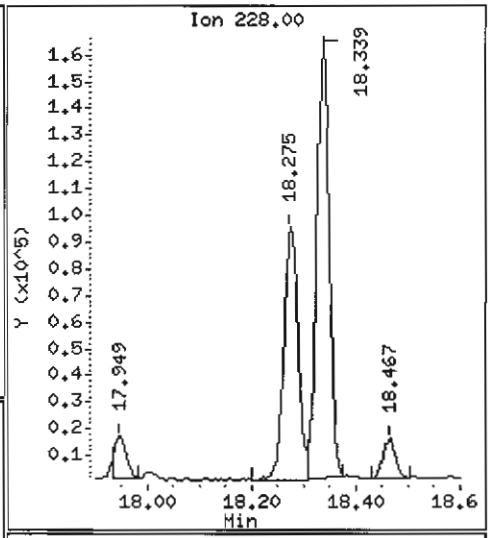
Concentration: 922.5 ug/kg

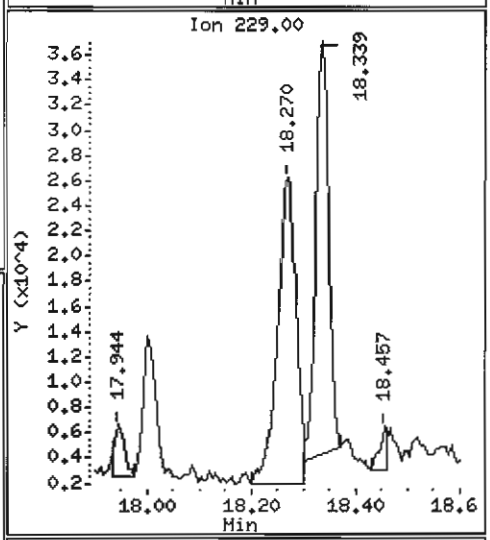


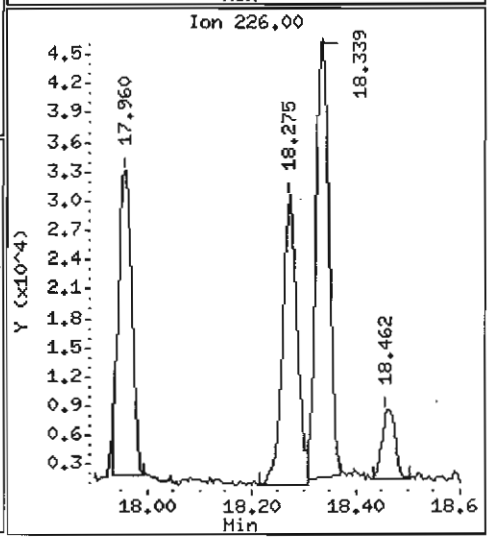












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

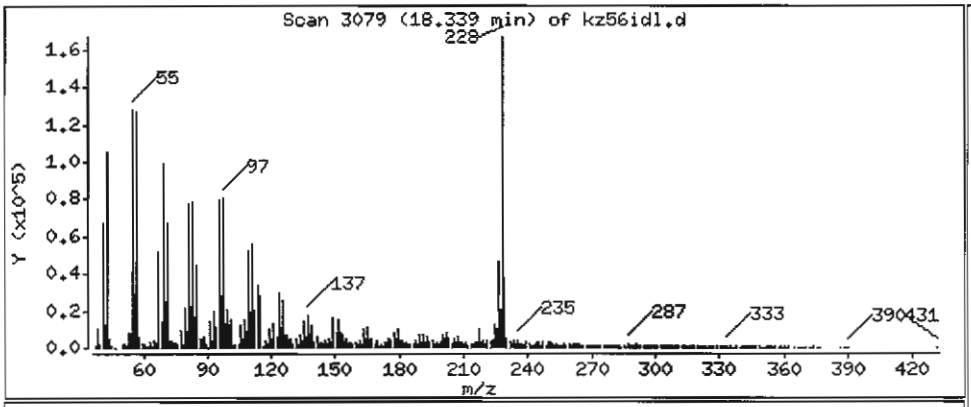
Operator: LJR/VTS

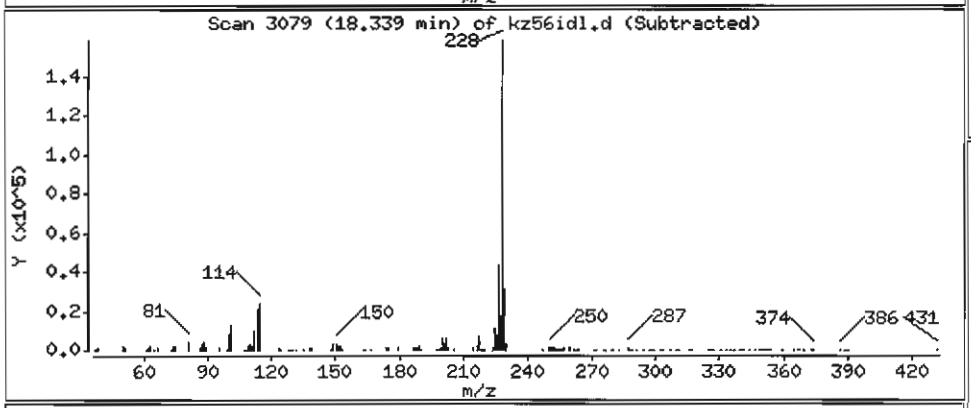
Column phase: ZB-5

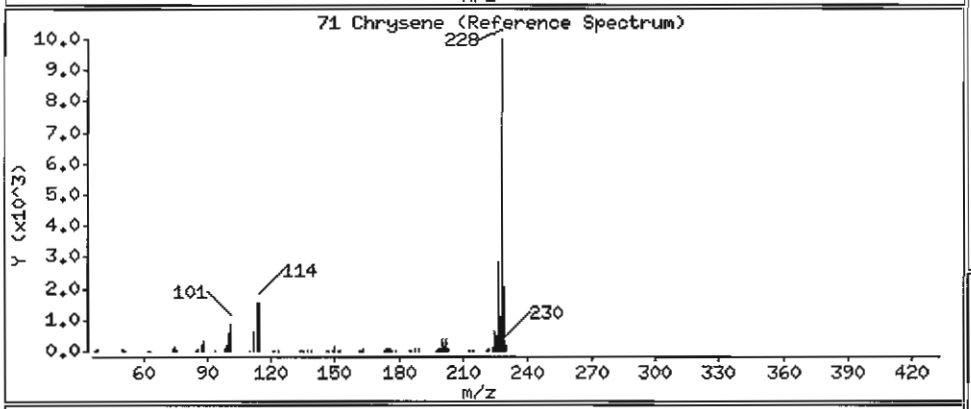
Column diameter: 0.32

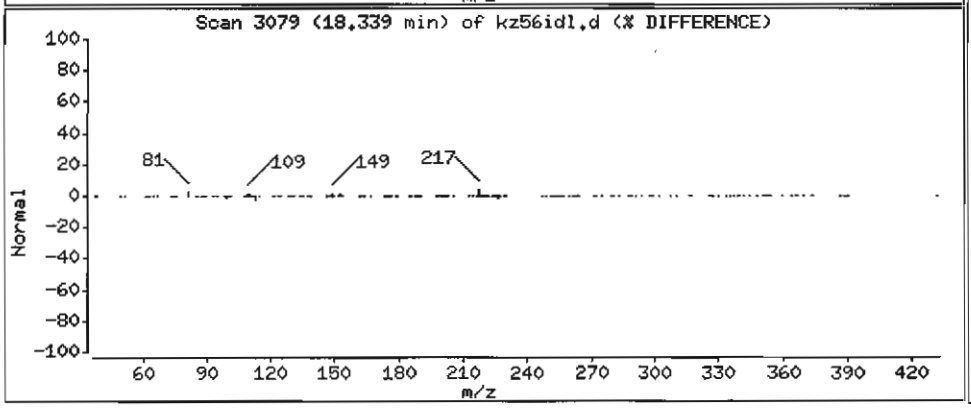
71 Chrysene

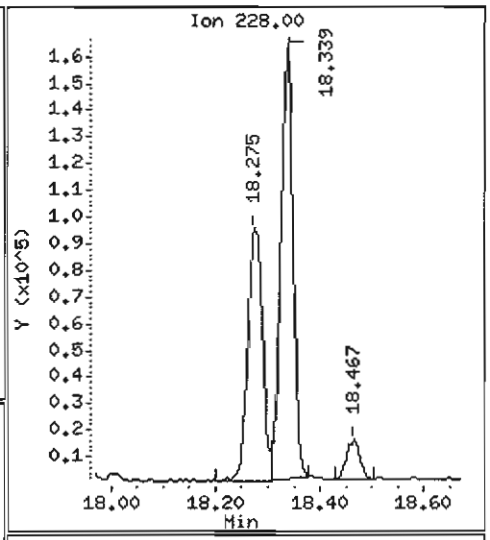
Concentration: 1340 ug/kg

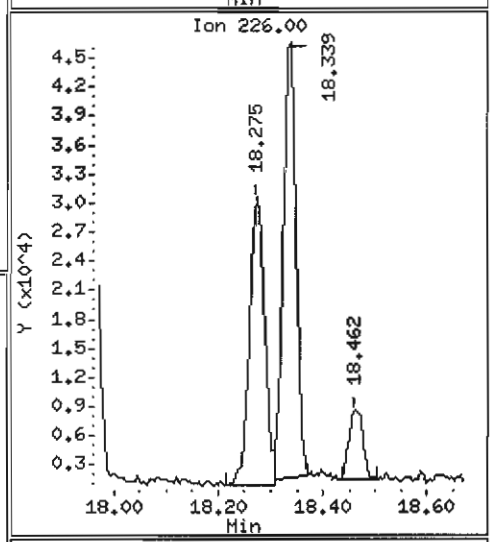


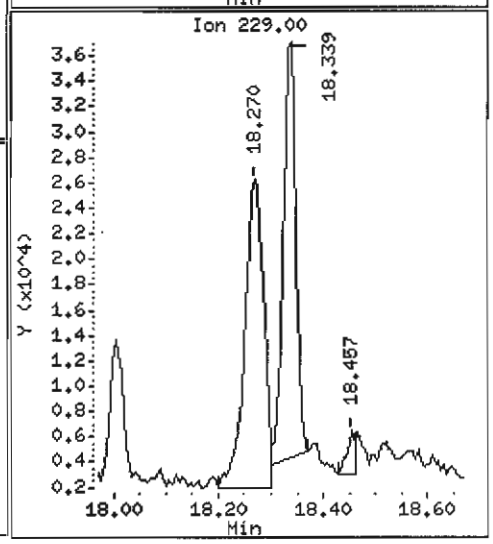












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

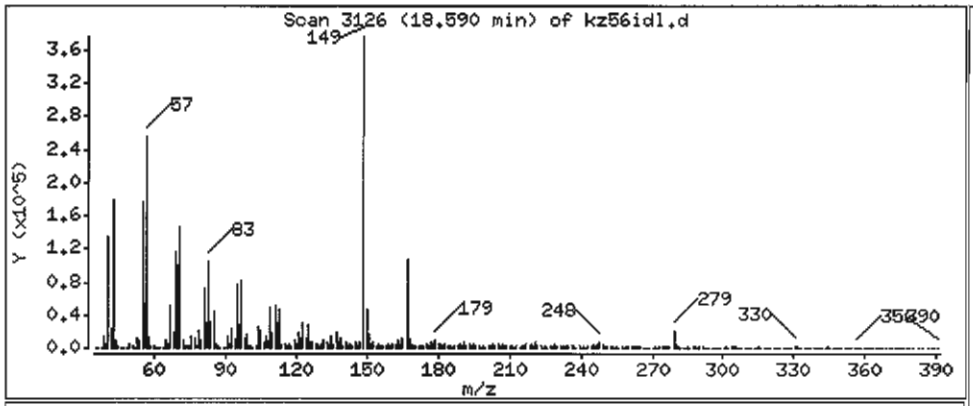
Operator: LJR/VTS

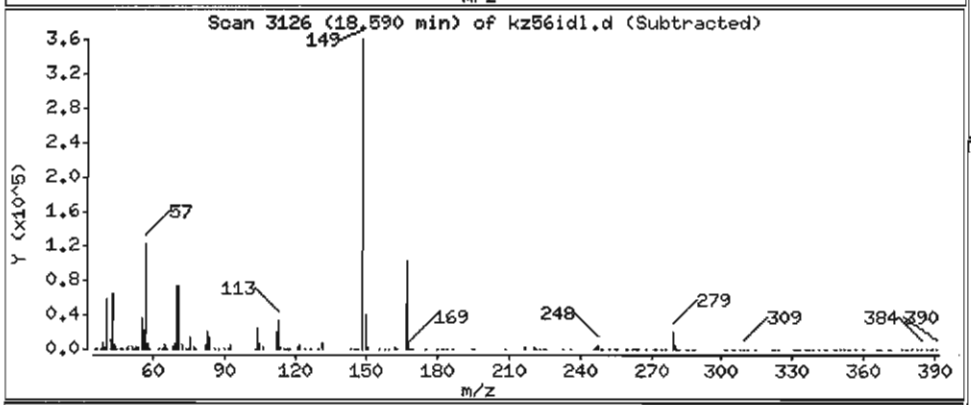
Column phase: ZB-5

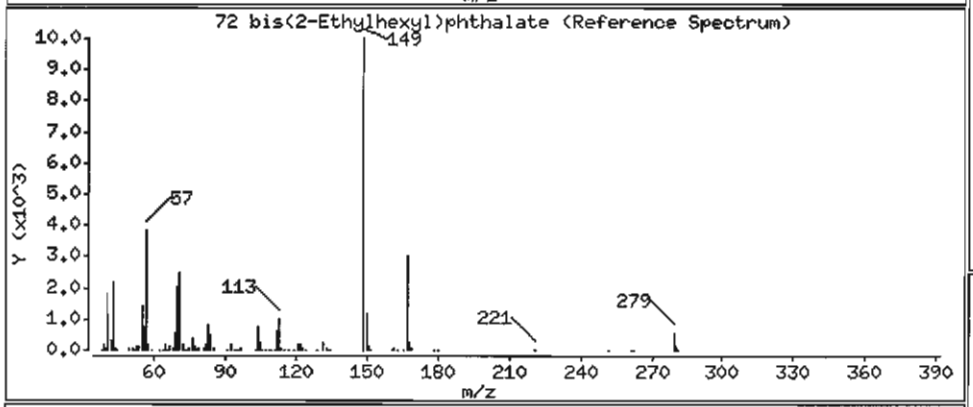
Column diameter: 0.32

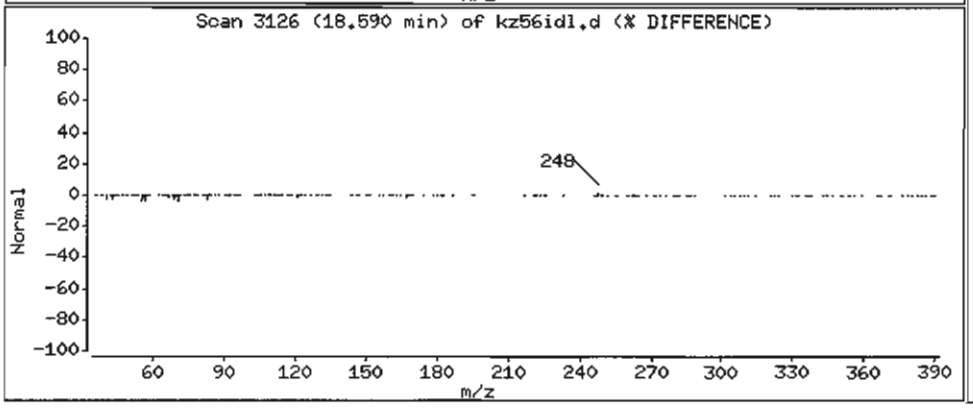
72 bis(2-Ethylhexyl)phthalate

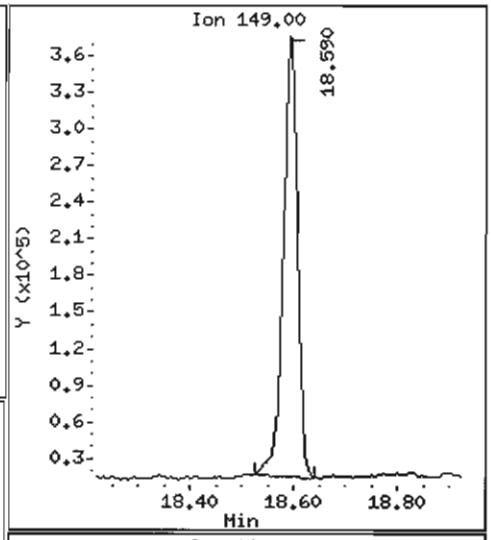
Concentration: 5087 ug/kg

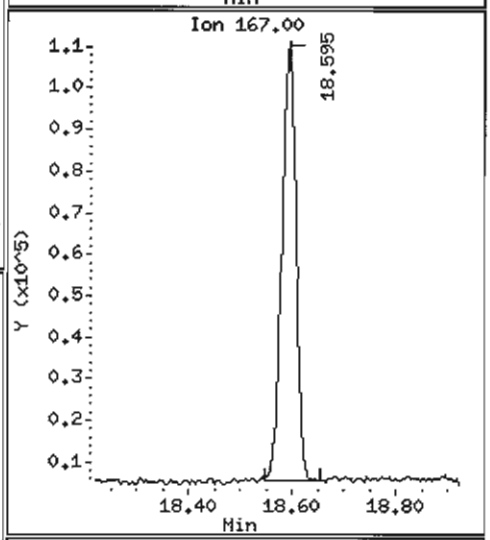


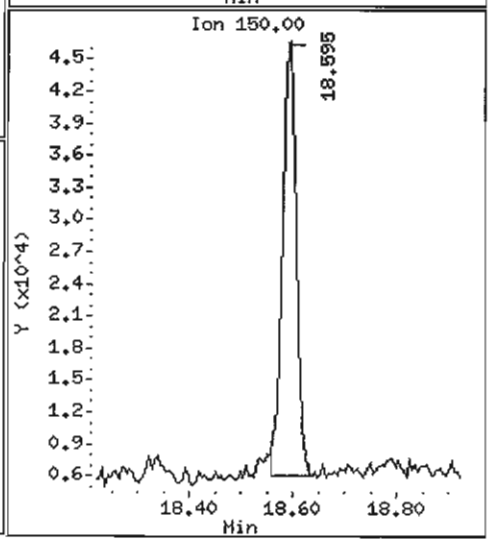












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

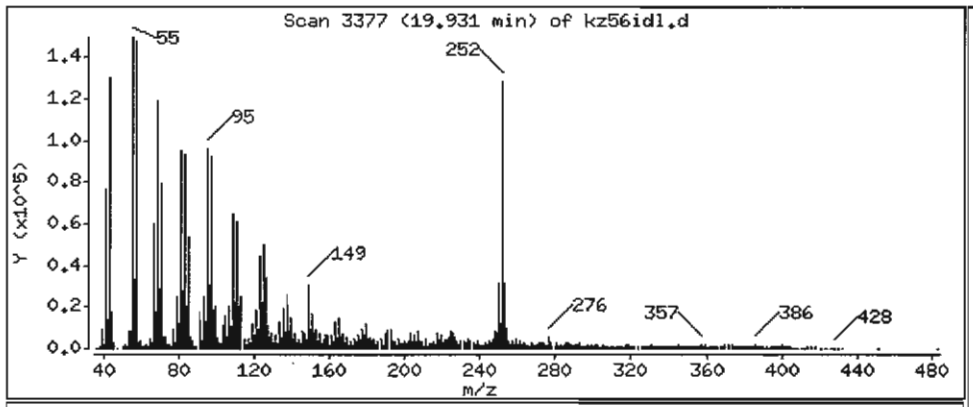
Operator: LJR/VTS

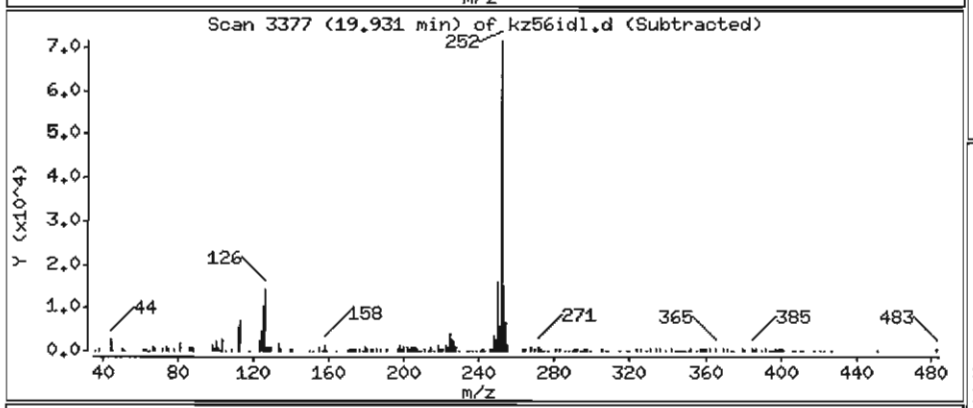
Column phase: ZB-5

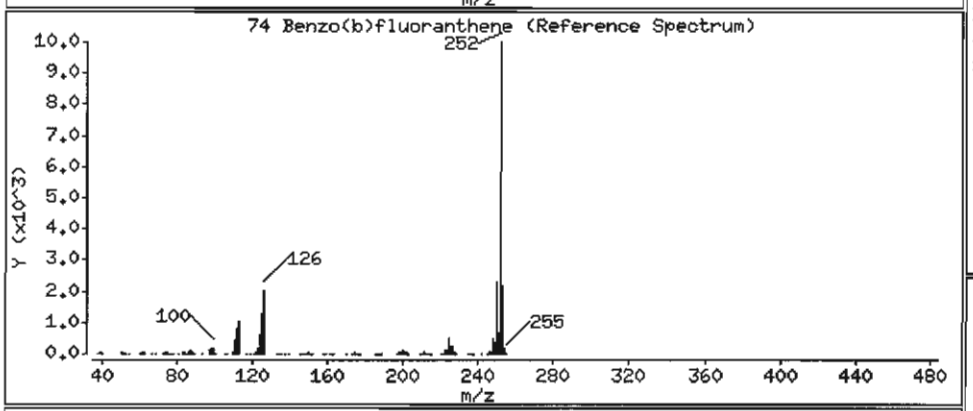
Column diameter: 0.32

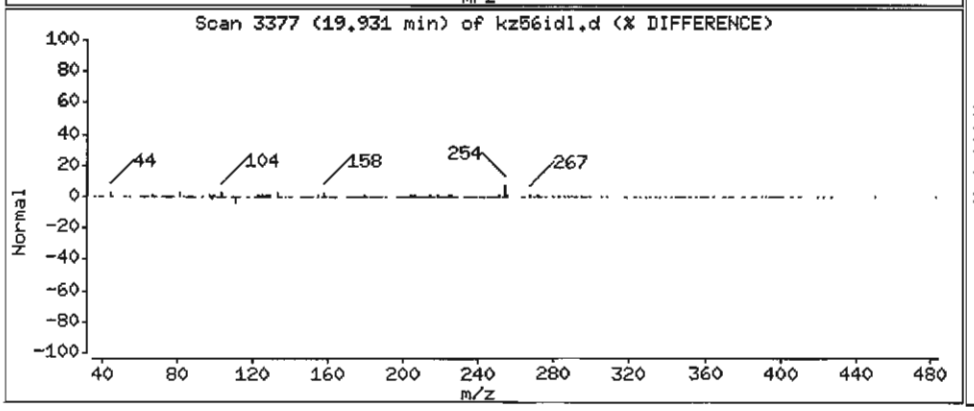
74 Benzo(b)fluoranthene

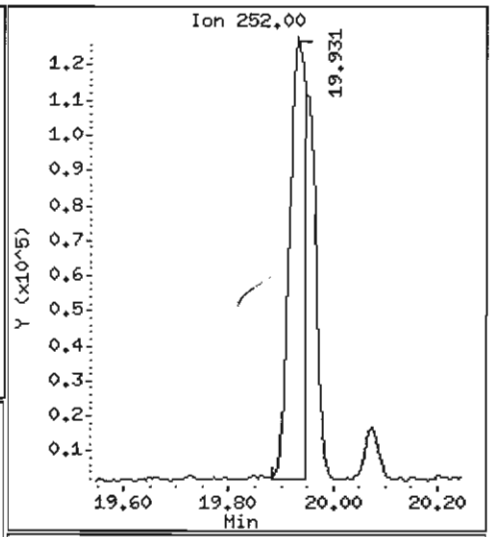
Concentration: 1971 ug/kg

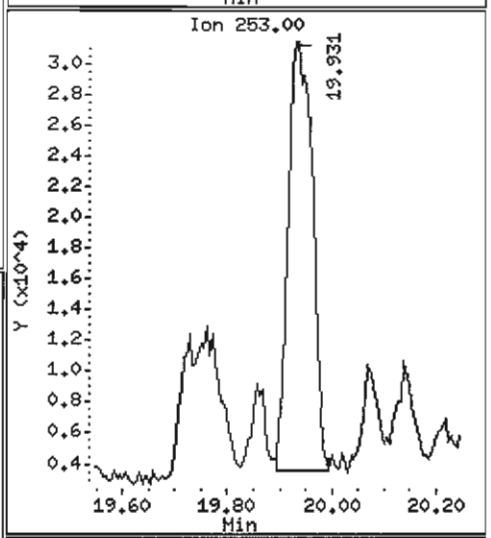


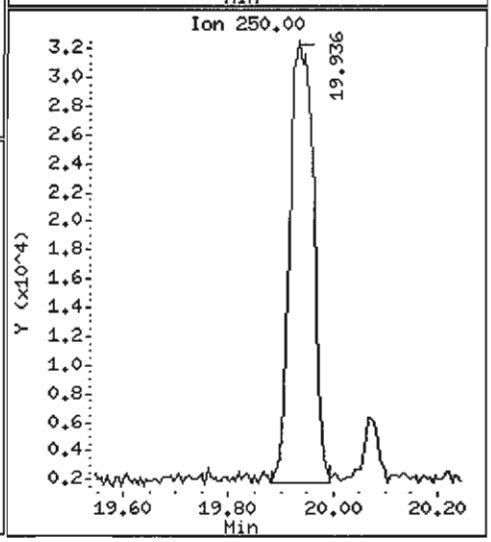












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

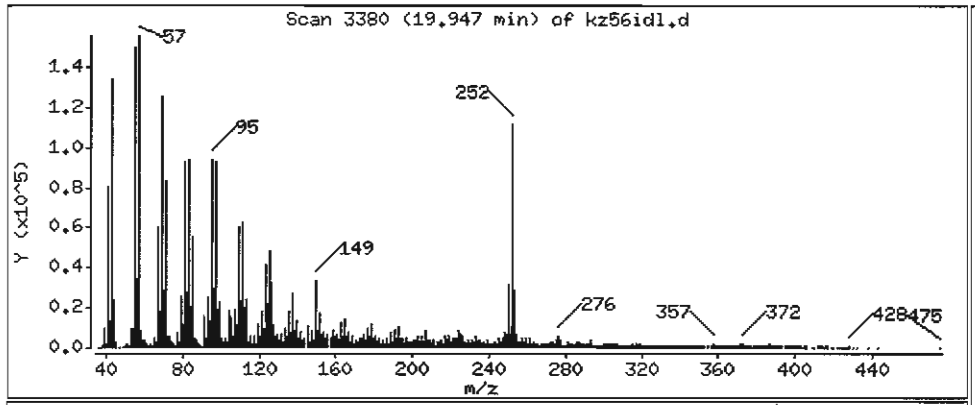
Operator: LJR/VTS

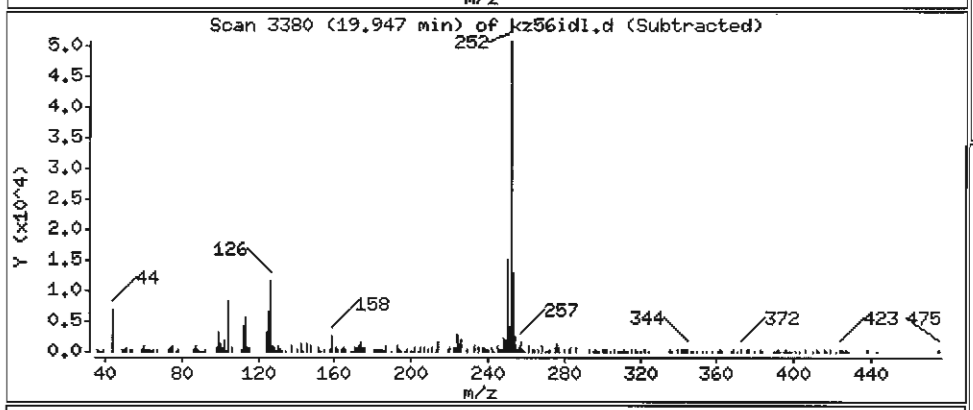
Column phase: ZB-5

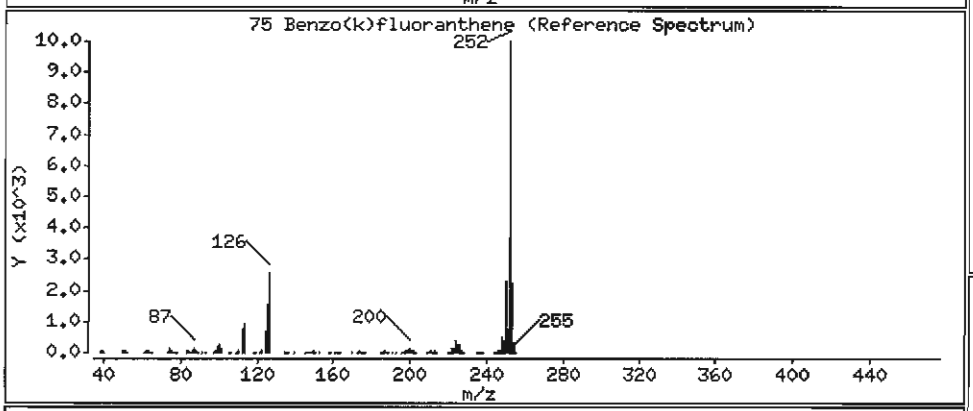
Column diameter: 0.32

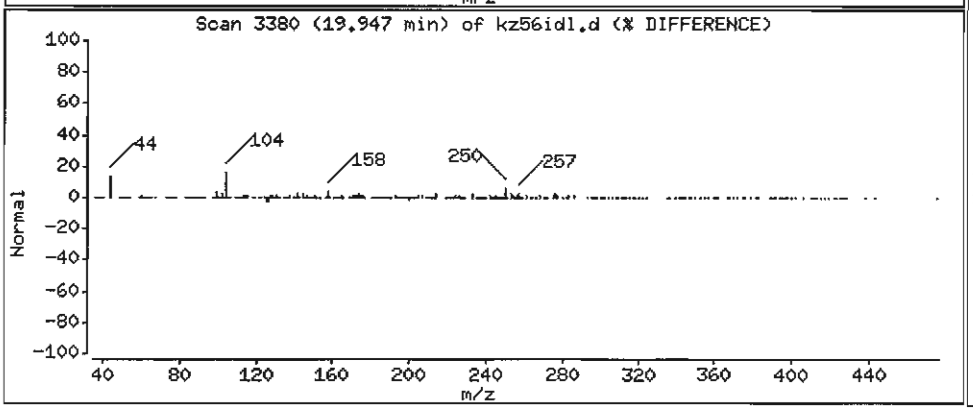
75 Benzo(k)fluoranthene

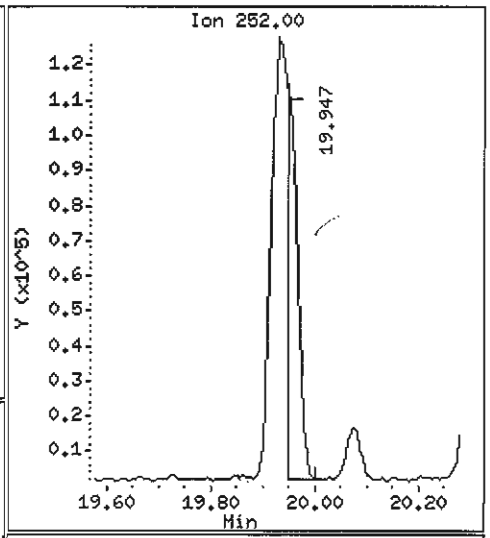
Concentration: 1231 ug/kg

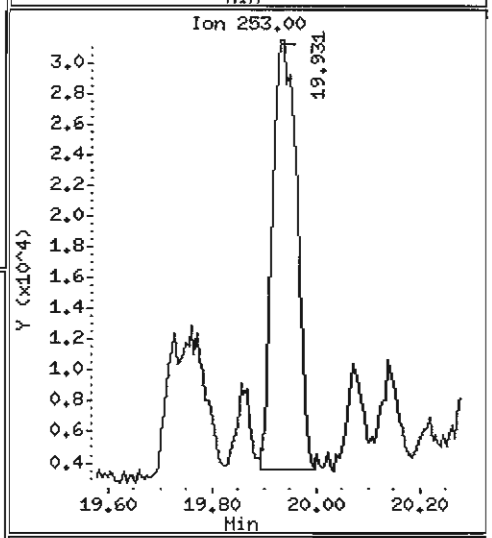


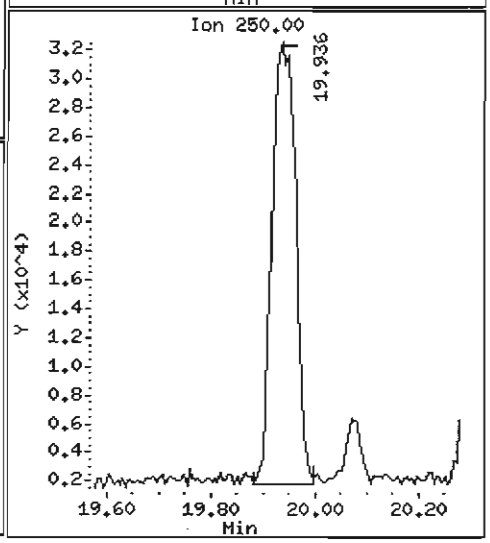












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

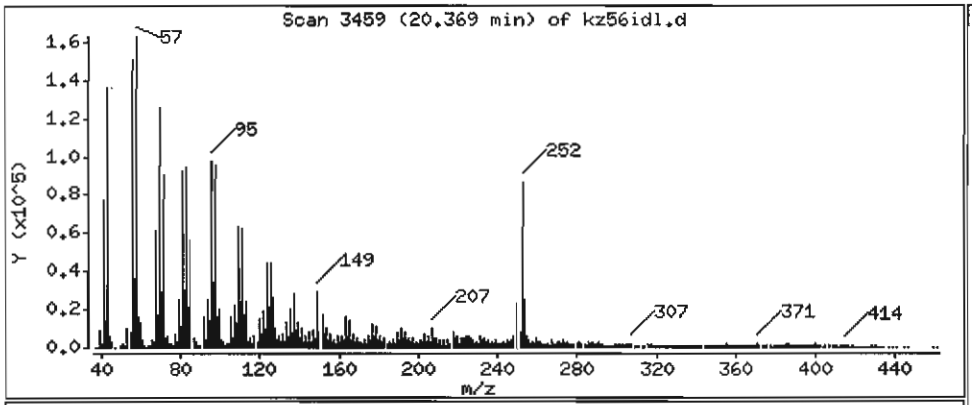
Operator: LJR/VTS

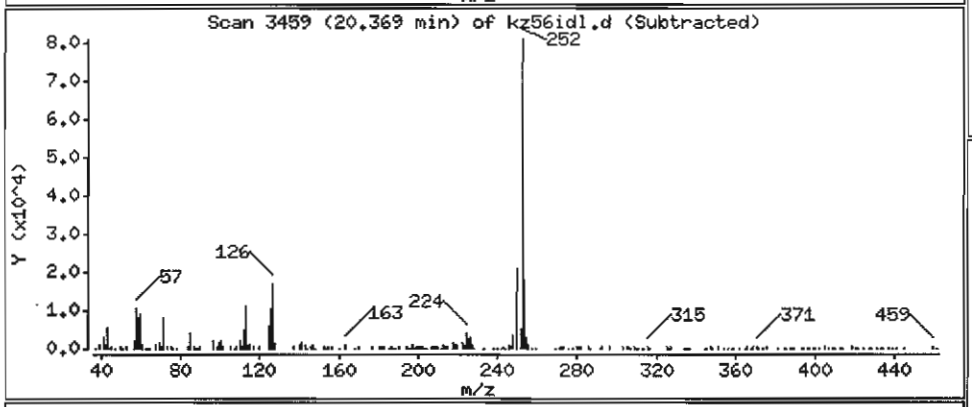
Column phase: ZB-5

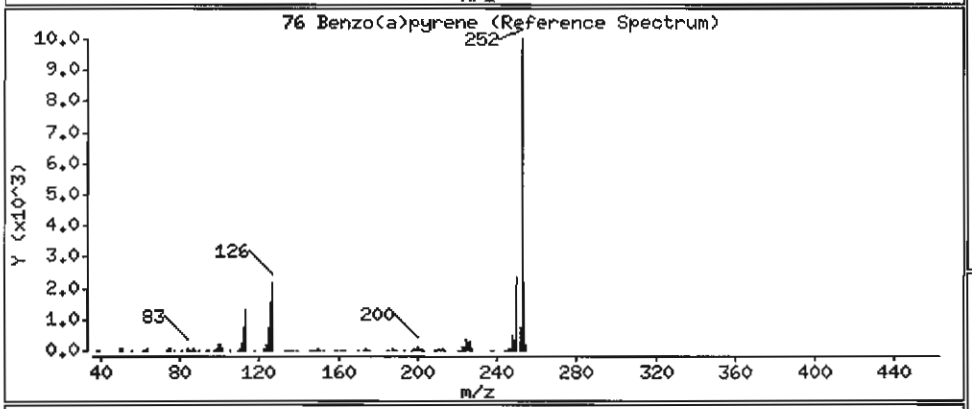
Column diameter: 0.32

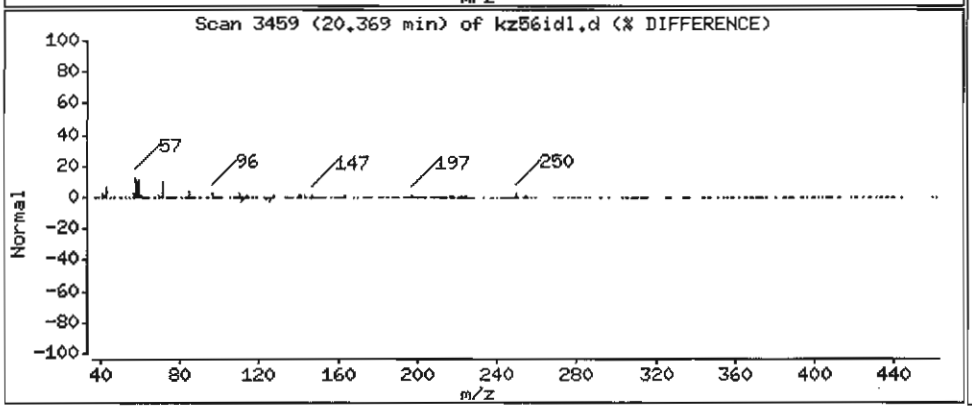
76 Benzo(a)pyrene

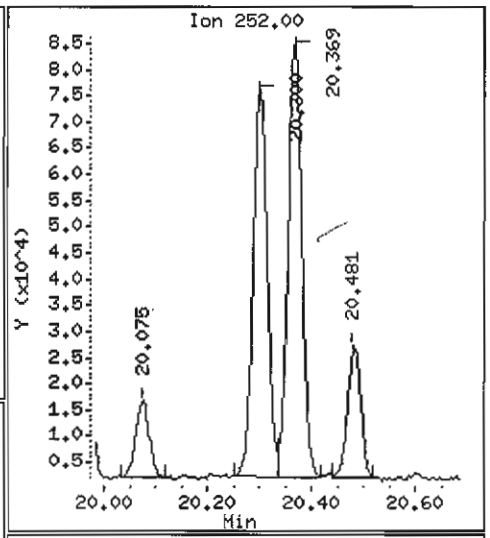
Concentration: 1123 ug/kg

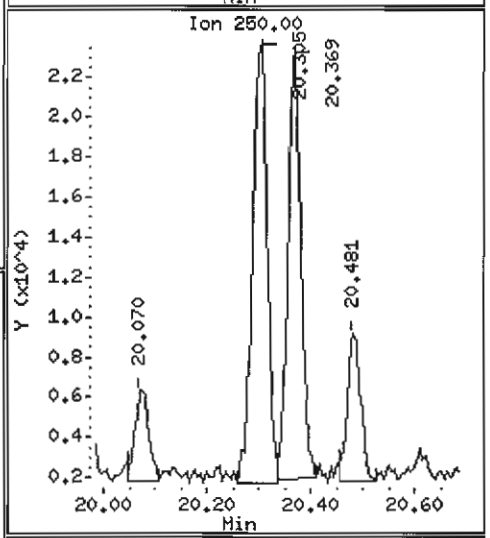


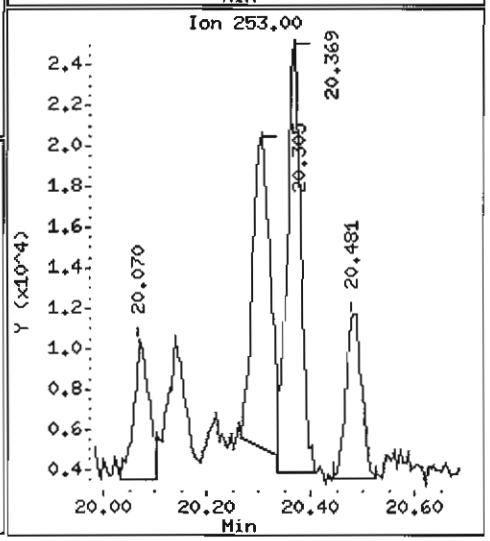












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

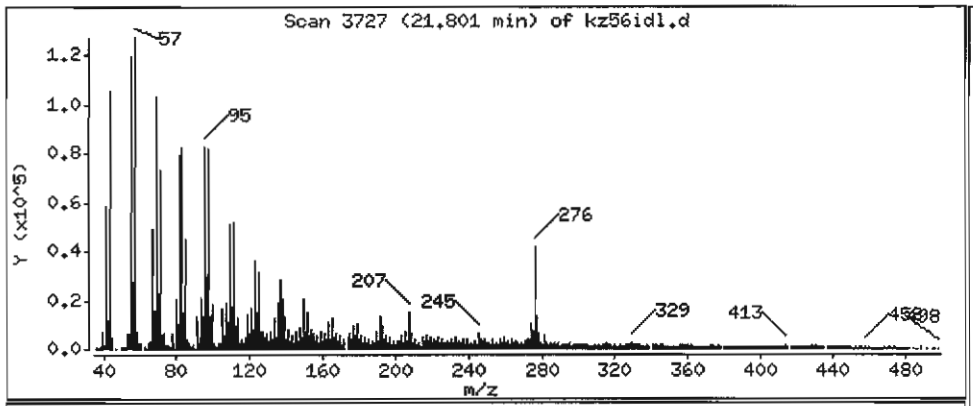
Operator: LJR/VTS

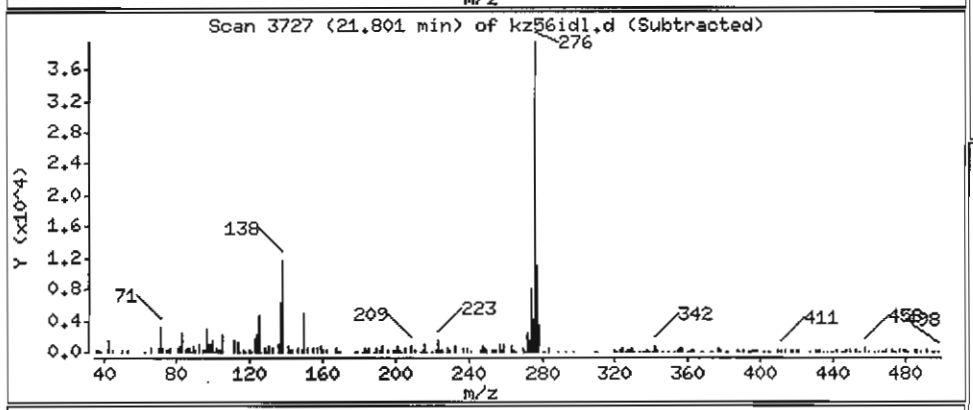
Column phase: ZB-5

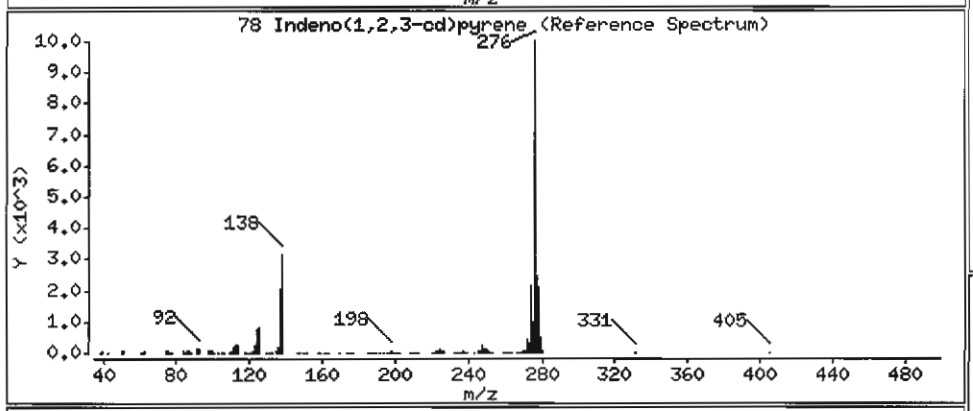
Column diameter: 0.32

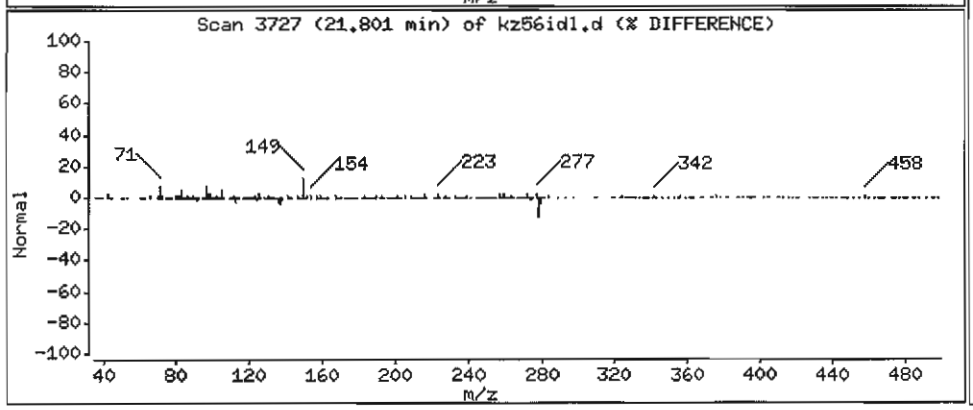
78 Indeno(1,2,3-cd)pyrene

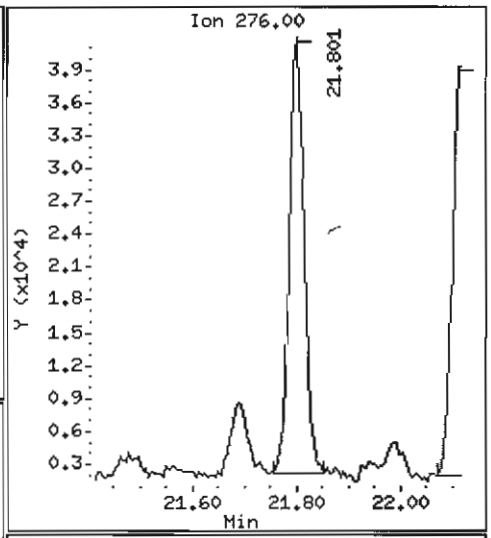
Concentration: 485.7 ug/kg

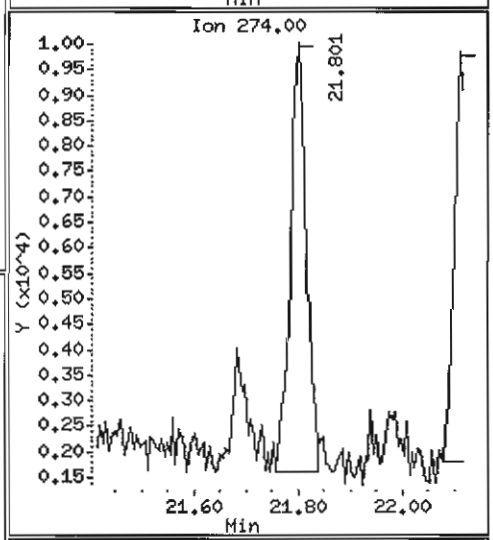


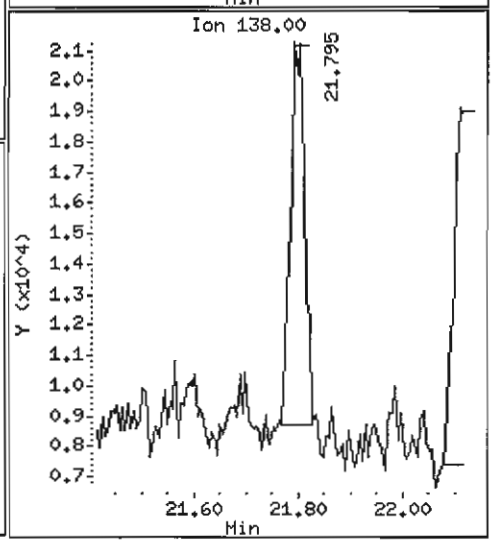












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

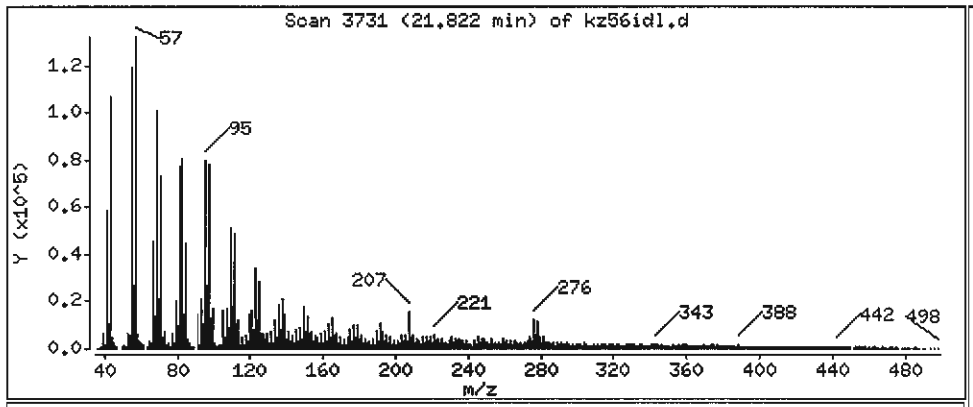
Operator: LJR/VTS

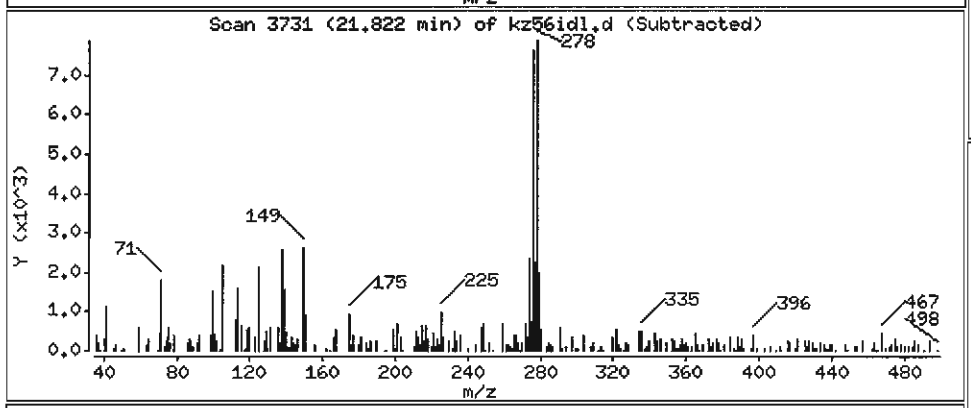
Column phase: ZB-5

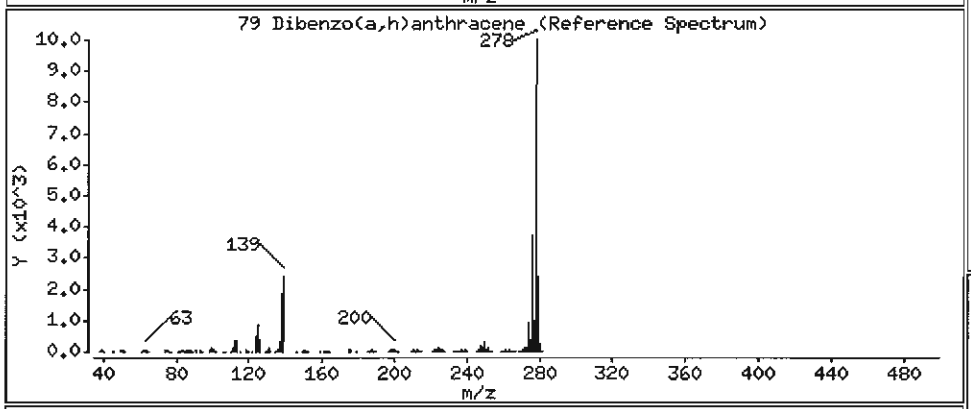
Column diameter: 0.32

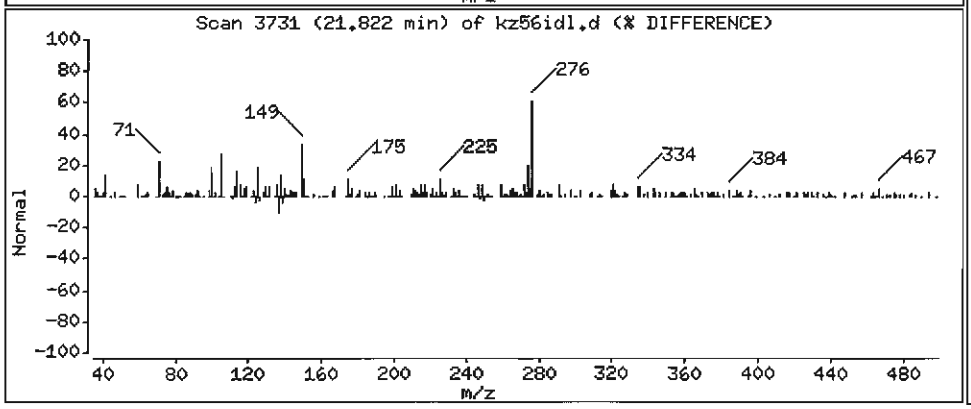
79 Dibenzo(a,h)anthracene

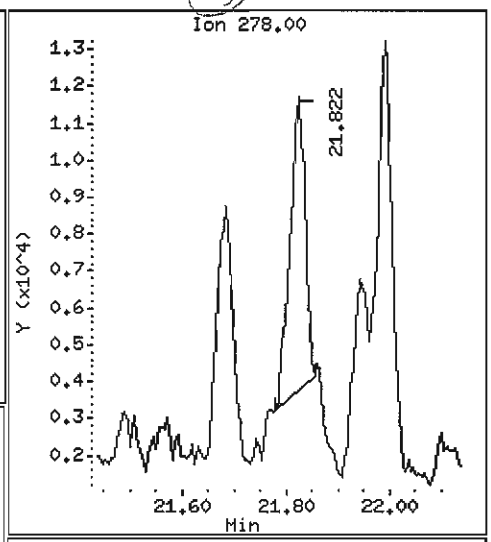
Concentration: 119.2 ug/kg

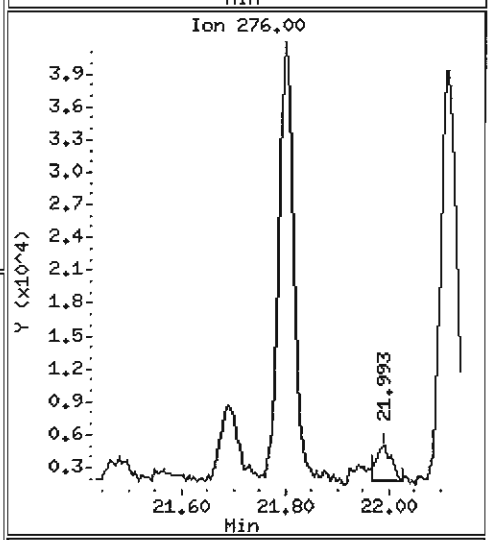


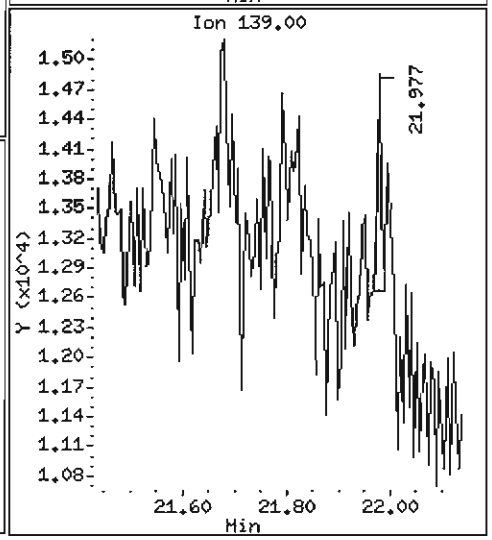












Data File: /chem1/nt6.i/20070529.b/kz56idl.d

Date : 29-MAY-2007 16:00

Client ID: Y3-RC15-S

Instrument: nt6.i

Sample Info: KZ56I,5

Volume Injected (uL): 1.0

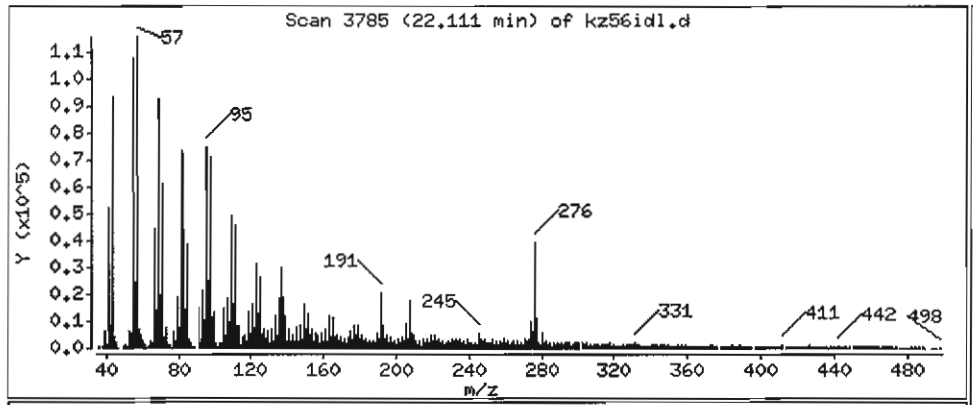
Operator: LJR/VTS

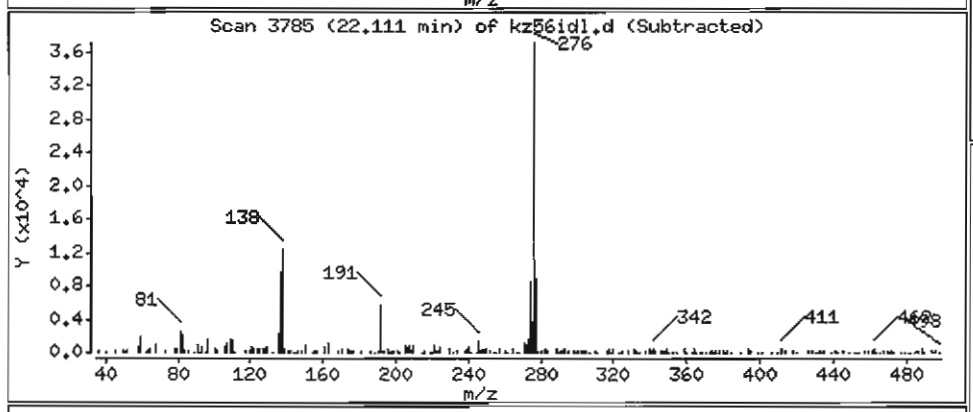
Column phase: ZB-5

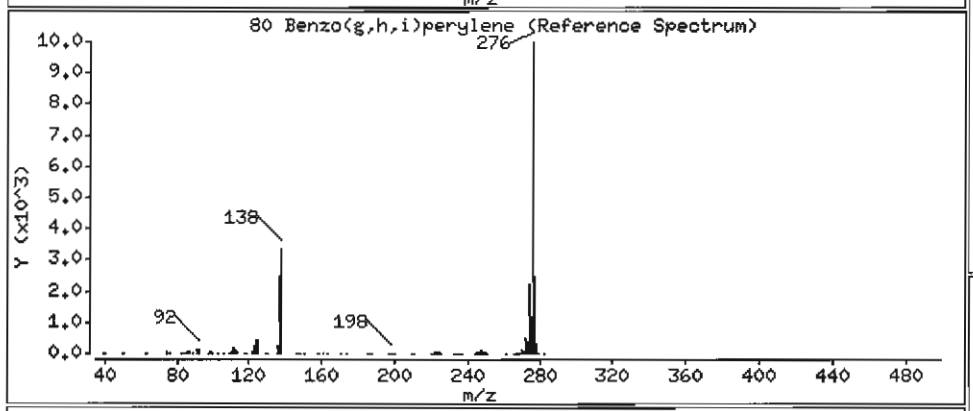
Column diameter: 0.32

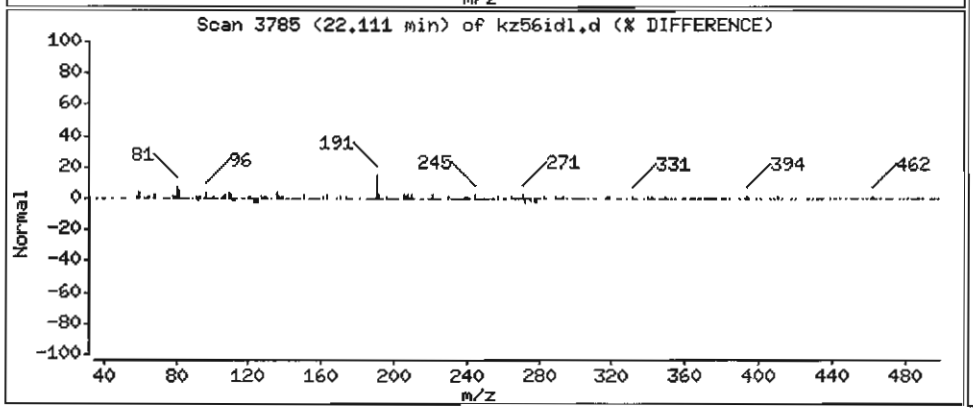
80 Benzo(g,h,i)perylene

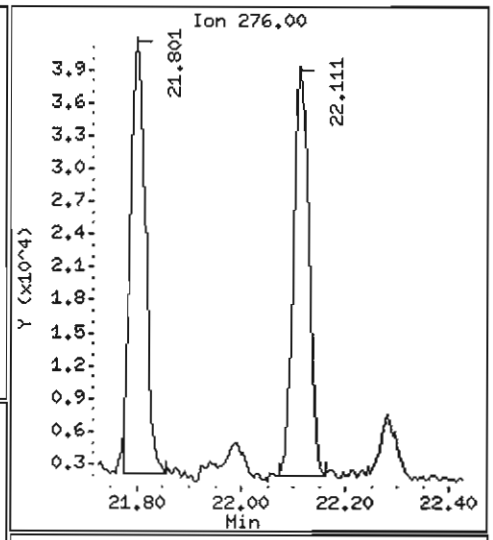
Concentration: 512.2 ug/kg

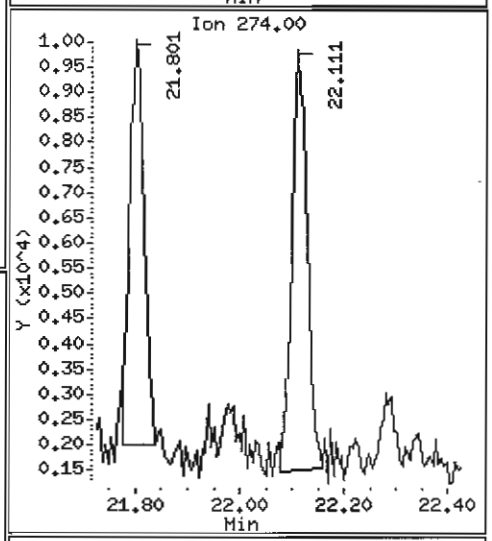


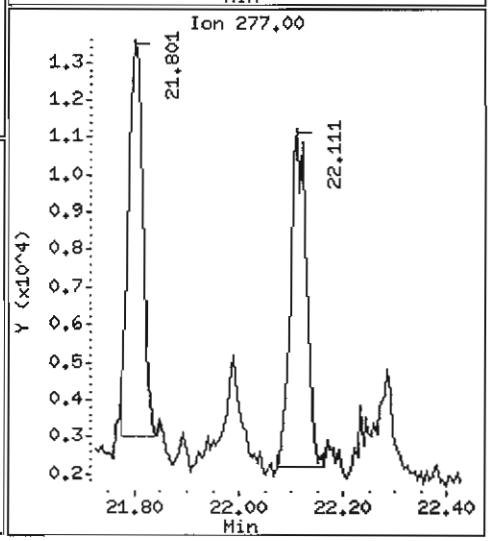












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC09-S
SAMPLE

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 12:39
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 22.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 51.6%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	130	150
91-57-6	2-Methylnaphthalene	130	< 130 U
208-96-8	Acenaphthylene	130	< 130 U
83-32-9	Acenaphthene	130	< 130 U
132-64-9	Dibenzofuran	130	< 130 U
86-73-7	Fluorene	130	< 130 U
85-01-8	Phenanthrene	130	860
120-12-7	Anthracene	130	190
206-44-0	Fluoranthene	130	2,300
129-00-0	Pyrene	130	1,900
56-55-3	Benzo(a)anthracene	130	800
117-81-7	bis(2-Ethylhexyl)phthalate	130	6,100 E
218-01-9	Chrysene	130	1,300
205-99-2	Benzo(b)fluoranthene	130	1,200
207-08-9	Benzo(k)fluoranthene	130	1,600
50-32-8	Benzo(a)pyrene	130	950
193-39-5	Indeno(1,2,3-cd)pyrene	130	410
53-70-3	Dibenz(a,h)anthracene	130	100 J
191-24-2	Benzo(g,h,i)perylene	130	410

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.2%	2-Fluorobiphenyl	59.0%
d14-p-Terphenyl	60.6%	d4-1,2-Dichlorobenzene	58.0%
d5-Phenol	58.6%	2-Fluorophenol	53.0%
2,4,6-Tribromophenol	61.2%	d4-2-Chlorophenol	58.3%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56j.d
Lab Smp Id: KZ56J — Client Smp ID: Y3-RC09-S
Inj Date : 29-MAY-2007 12:39
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56J,3
Misc Info : 07-9556
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 6
Dil Factor: 3.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	47.00000	Weight of sample extracted (g)
M	51.60000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.920	4.903	(0.723)	130998	6.61650	872.6
$ 2 Phenol-d5	99	6.458	6.447	(0.949)	170090	7.32186	965.6
3 Phenol	94	6.474	6.468	(0.951)	12894	0.50560 LDL	66.68(M)
$ 5 2-Chlorophenol-d4	132	6.522	6.521	(0.958)	117173	7.29476	962.0
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.806	6.805	(1.000)	217767	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.099	7.093	(1.043)	47463	4.83219	637.3
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.724	7.729	(0.876)	94693	5.17889	683.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.585	8.701	(0.973)	9363	0.89128	117.5(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.820	8.819	(1.000)	768461	20.0000	
	28 Naphthalene	128	8.852	8.851	(1.004)	52314	1.14931	151.6
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.620	10.619	(0.911)	131732	4.91753	648.5
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.656	11.655	(1.000)	396918	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.944	12.937	(1.110)	30915	7.65043	1009
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.007	14.001	(1.000)	543292	20.0000	
	60 Phenanthrene	178	14.044	14.038	(1.003)	235259	6.48857	855.7
	61 Anthracene	178	14.114	14.107	(1.008)	52953	1.41347	186.4
	62 Carbazole	167	14.418	14.412	(1.029)	49352	1.53090	201.9
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.978	15.956	(1.141)	592068	17.2112	2270
65 Pyrene	202	16.320	16.303	(0.892)	576663	14.6754	1935
$ 66 Terphenyl-d14	244	16.667	16.650	(0.911)	125652	5.04956	665.9
67 Butylbenzylphthalate	149	17.570	17.558	(0.960)	49139	2.65968	350.8(M)
68 Benzo(a)anthracene	228	18.275	18.253	(0.999)	216054	6.10747	805.5
* 69 Chrysene-d12	240	18.302	18.280	(1.000)	473573	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.339	18.322	(1.002)	345352	9.65058	1273
72 bis(2-Ethylhexyl)phthalate	149	18.601	18.573	(0.952)	1127599	46.3673 E	6115(M)
* 134 Di-n-octylphthalate-d4	153	19.531	19.503	(1.000)	710011	20.0000	
73 Di-n-octylphthalate	149	19.547	19.514	(1.001)	76590	1.81580	239.5(M)
74 Benzo(b)fluoranthene	252	19.937	19.898	(0.974)	259920	8.93620	1179(M)
75 Benzo(k)fluoranthene	252	19.947	19.930	(0.975)	341691	12.2288	1613(M)
76 Benzo(a)pyrene	252	20.375	20.336	(0.996)	210103	7.21679	951.7
* 77 Perylene-d12	264	20.460	20.416	(1.000)	448600	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.806	21.768	(1.066)	105953	3.07829	406.0(M)
79 Dibenzo(a,h)anthracene	278	21.833	21.789	(1.067)	22255	0.78067 LOQ	103.0(M)
80 Benzo(g,h,i)perylene	276	22.127	22.078	(1.081)	98632	3.12810	412.5(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.368	6.377	(0.936)	21415	0.65749 LOQ	86.71(MH)
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56j.d
Lab Smp Id: KZ56J
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9556

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC09-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	217767	0.04
27 Naphthalene-d8	775413	387706	1550826	768461	-0.90
42 Acenaphthene-d10	371068	185534	742136	396918	6.97
59 Phenanthrene-d10	554165	277082	1108330	543292	-1.96
69 Chrysene-d12	436021	218010	872042	473573	8.61
134 Di-n-octylphthala	773344	386672	1546688	710011	-8.19
77 Perylene-d12	622369	311184	1244738	448600	-27.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.01
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.01
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.01
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.04
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.12
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.14
77 Perylene-d12	20.42	19.92	20.92	20.46	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

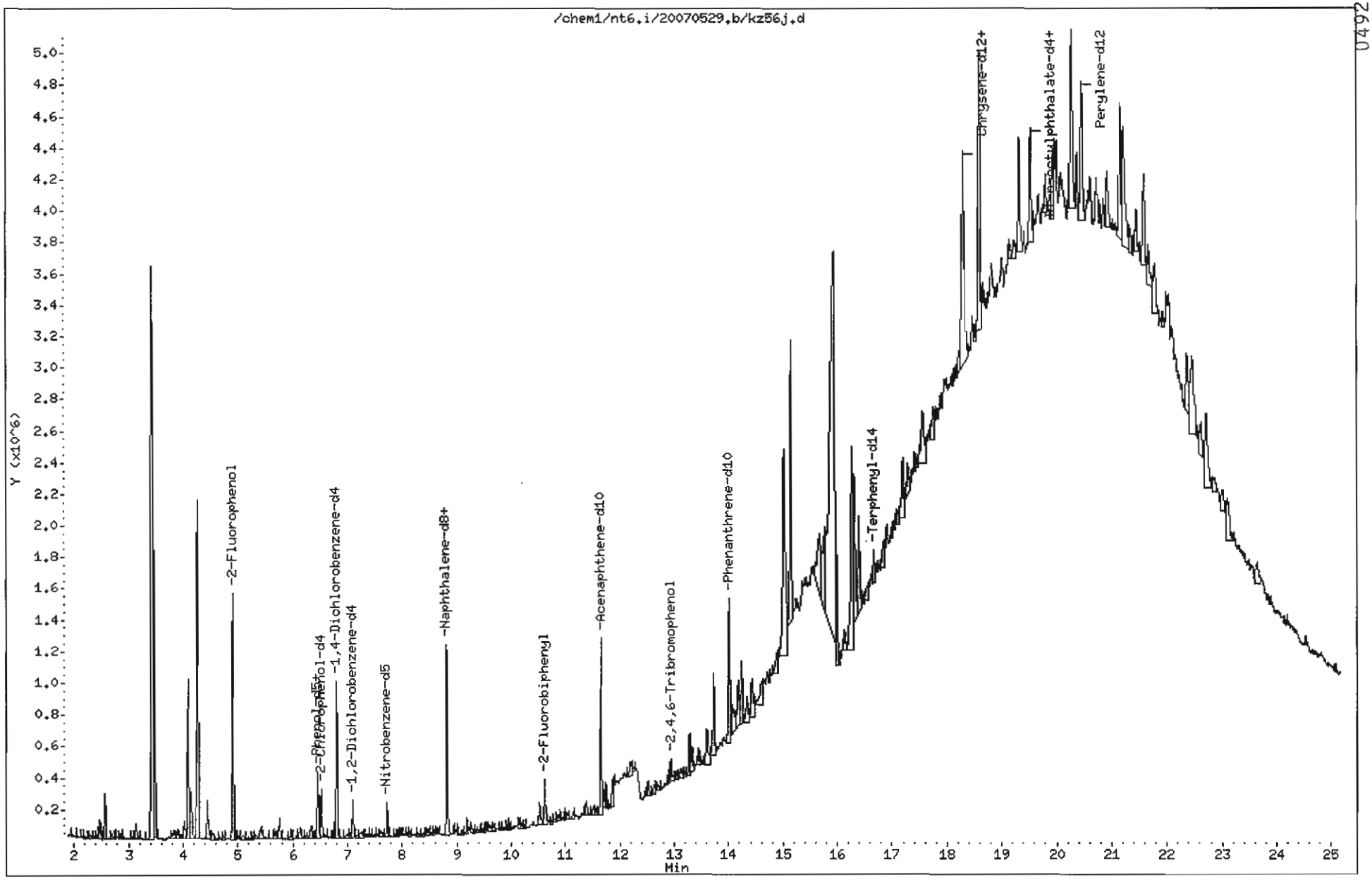
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56J
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9556

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC09-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1648	872.6	52.93	11-84
$ 2 Phenol-d5	1648	965.6	58.57	25-86
$ 5 2-Chlorophenol-d4	1648	962.0	58.36	23-91
$ 10 1,2-Dichlorobenzen	1099	637.3	57.99	24-90
$ 18 Nitrobenzene-d5	1099	683.0	62.14	26-88
$ 36 2-Fluorobiphenyl	1099	648.5	59.01	34-91
$ 55 2,4,6-Tribromophen	1648	1009	61.20	25-107
$ 66 Terphenyl-d14	1099	665.9	60.59	22-100

Data File: /chem1/nt6.i/20070529.b/kz56j.d
Date : 29-MAY-2007 12:39
Client ID: Y3-RC09-S
Sample Info: KZ56J,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



U492

Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

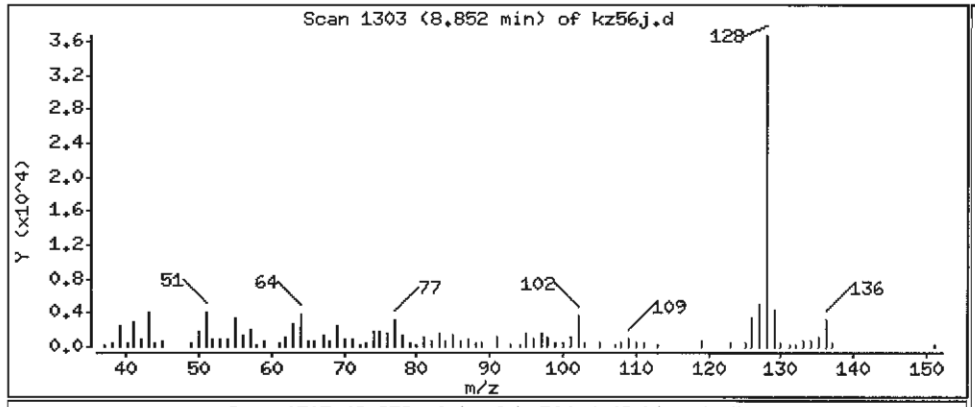
Operator: LJR/VTS

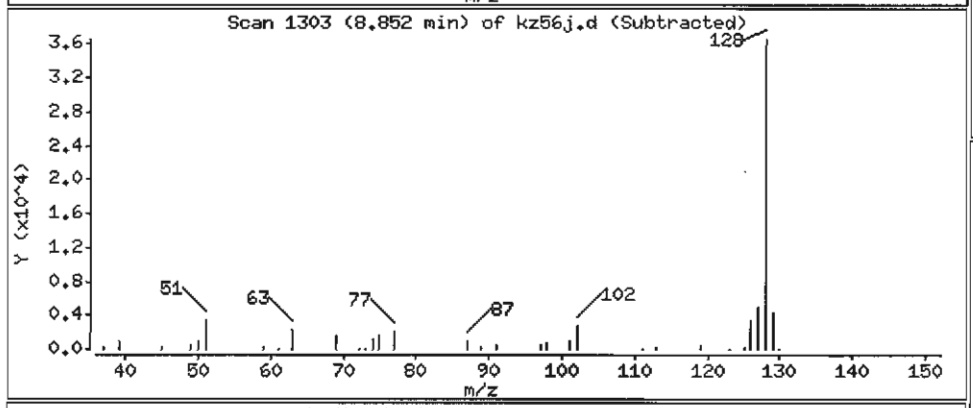
Column phase: ZB-5

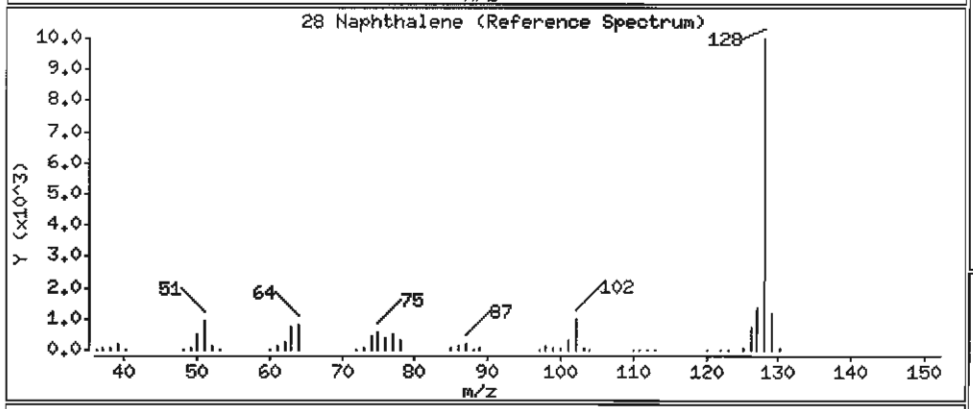
Column diameter: 0.32

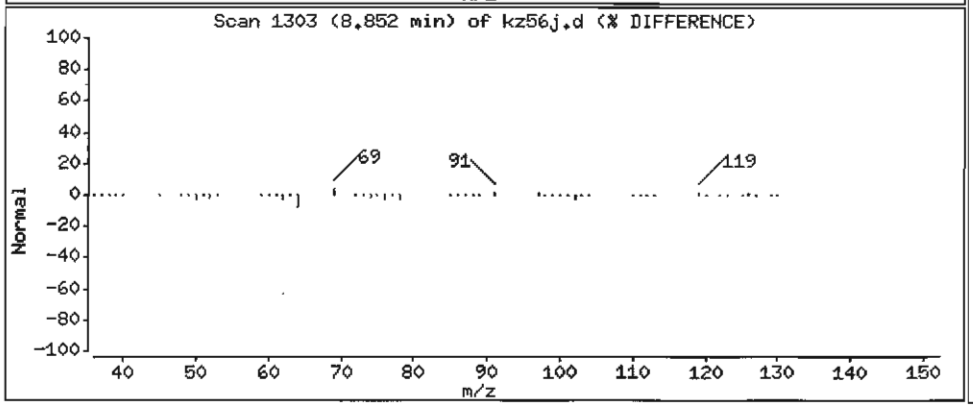
28 Naphthalene

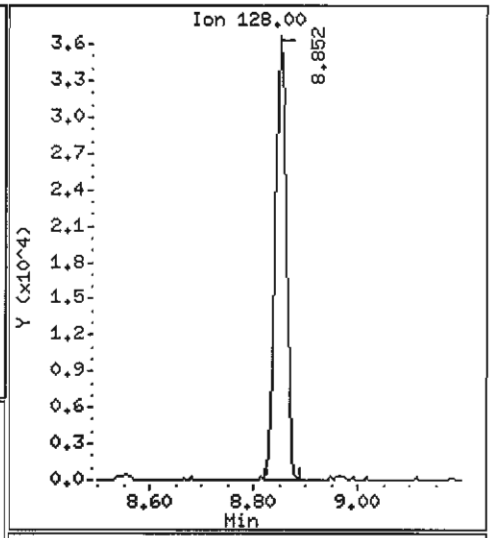
Concentration: 151.6 ug/kg

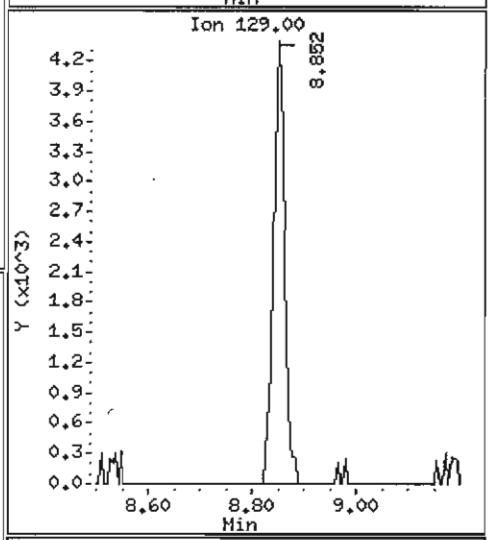


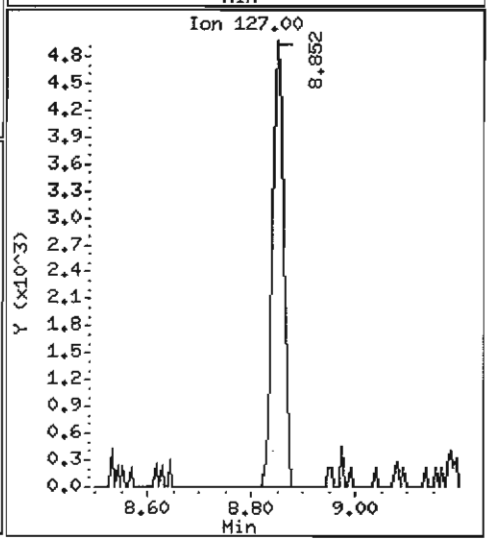












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

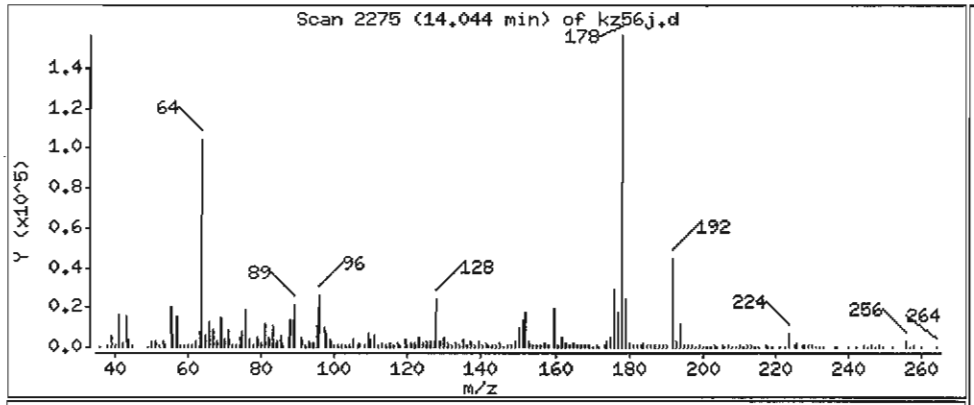
Operator: LJR/VTS

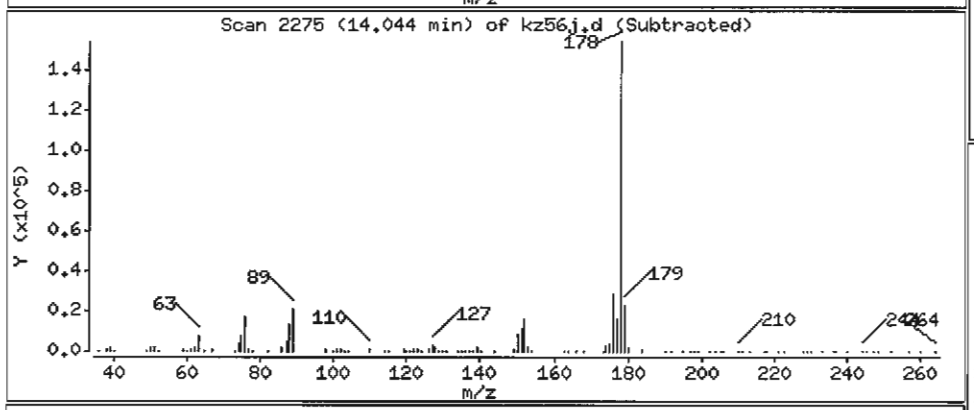
Column phase: ZB-5

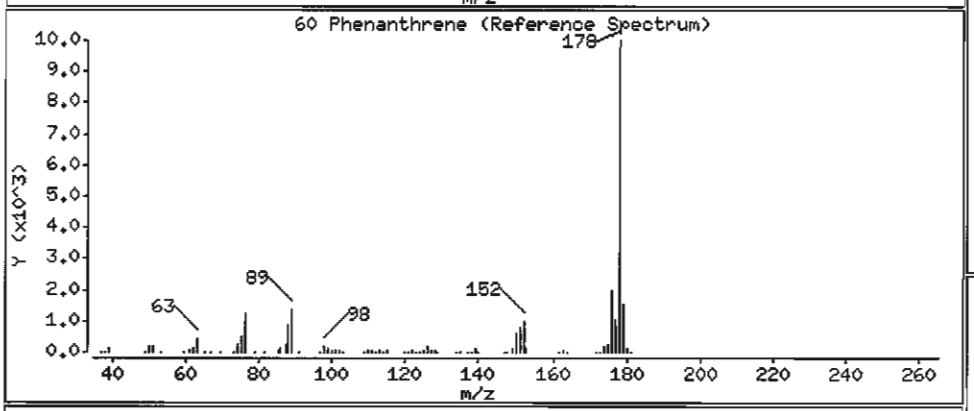
Column diameter: 0.32

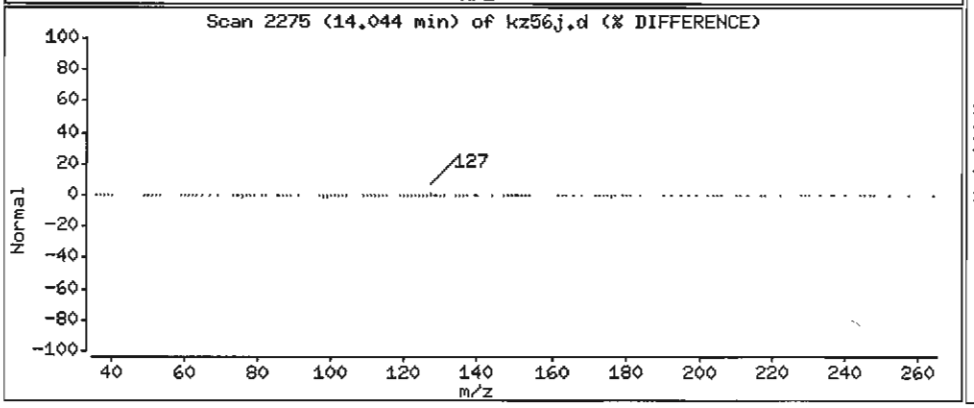
60 Phenanthrene

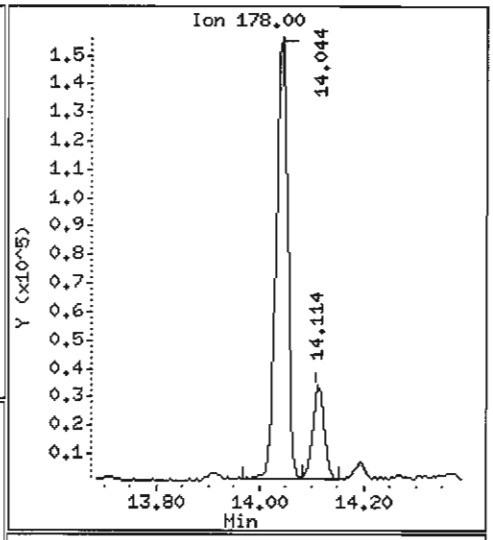
Concentration: 855.7 ug/kg

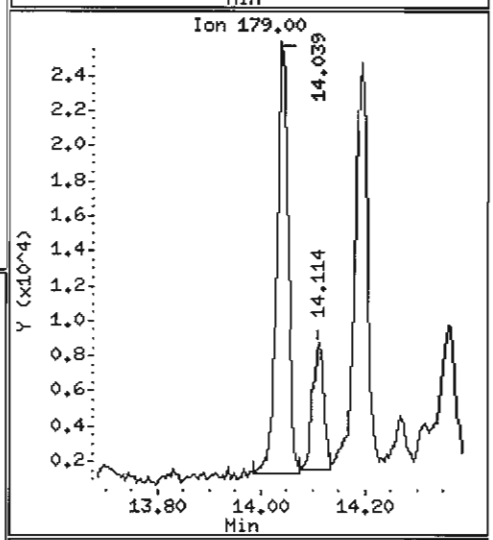


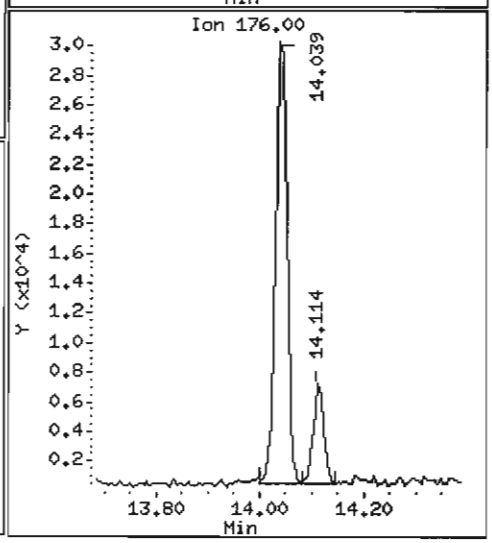












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

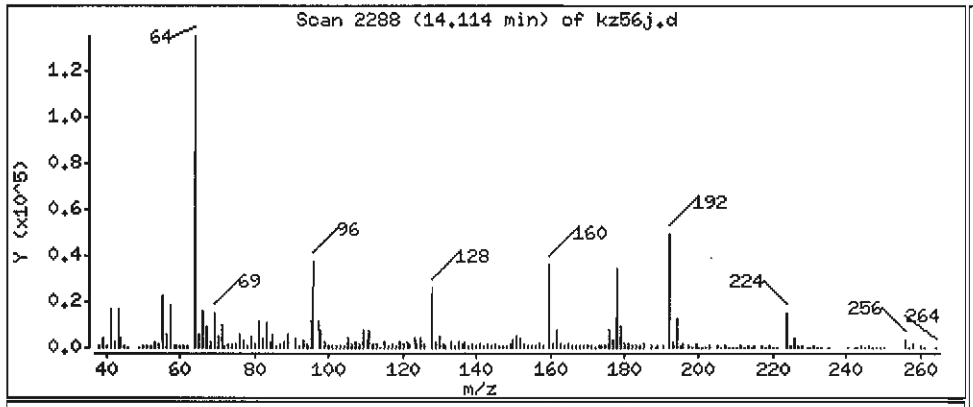
Operator: LJR/VTS

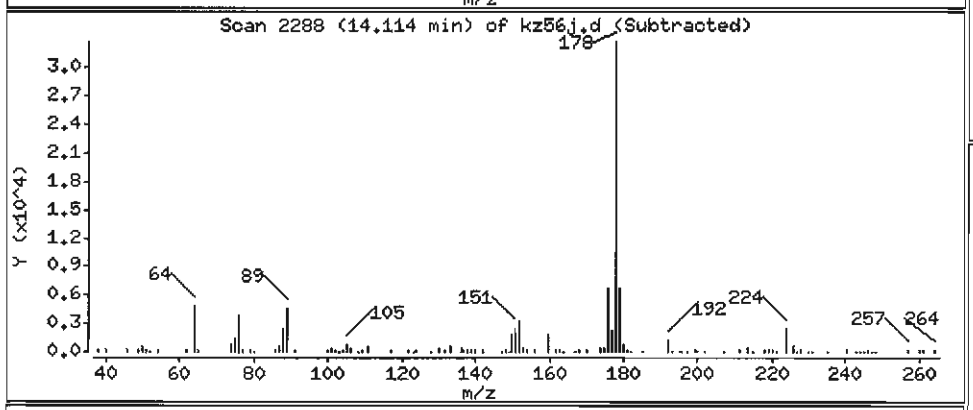
Column phase: ZB-5

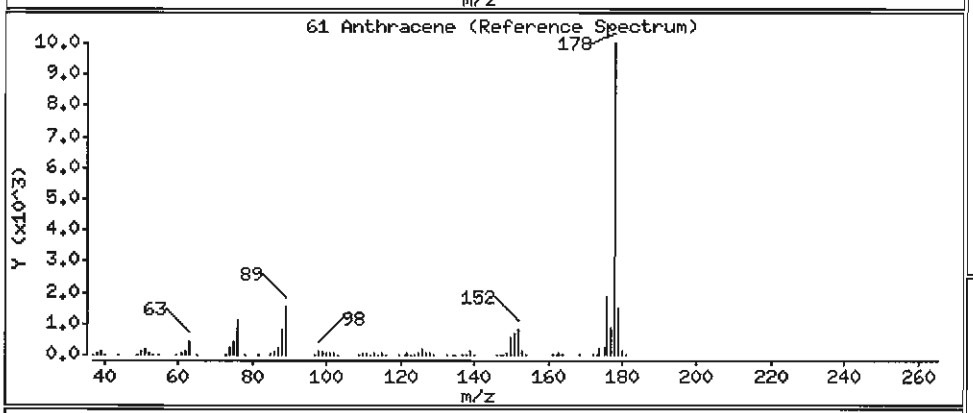
Column diameter: 0.32

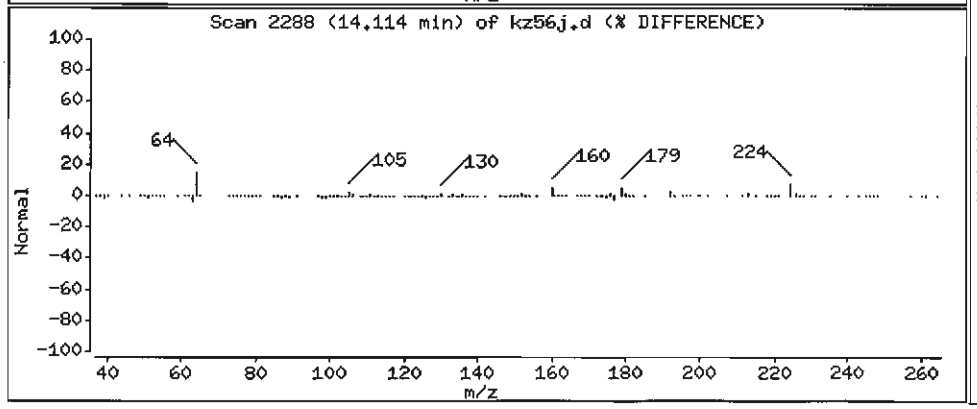
61 Anthracene

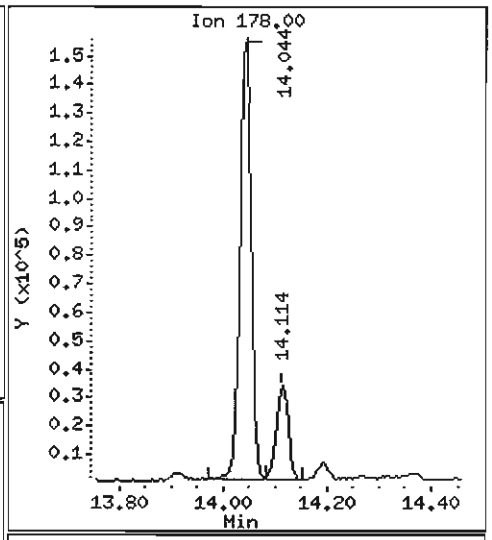
Concentration: 186.4 ug/kg

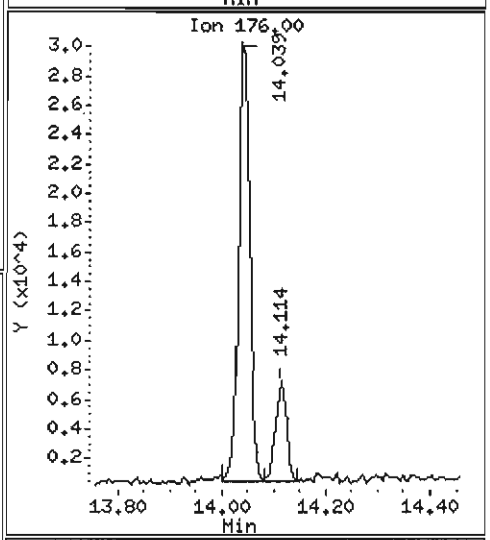


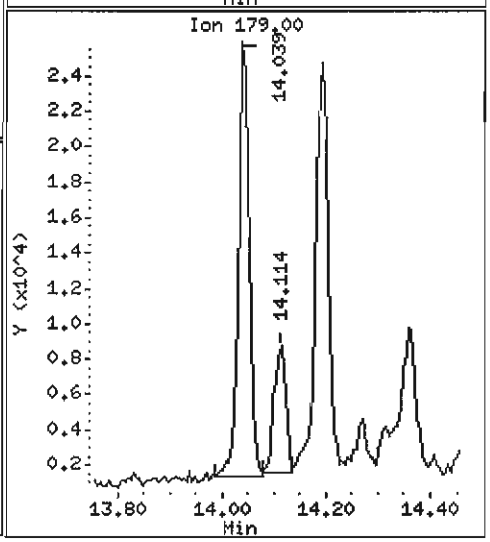












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

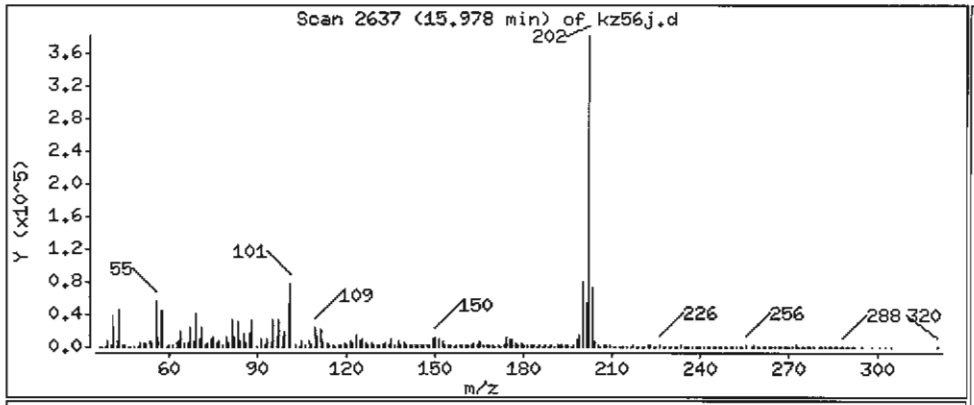
Operator: LJR/VTS

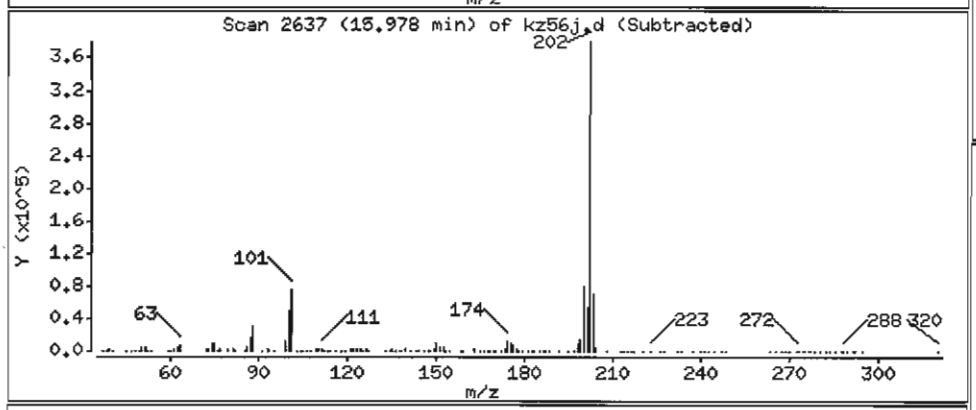
Column phase: ZB-5

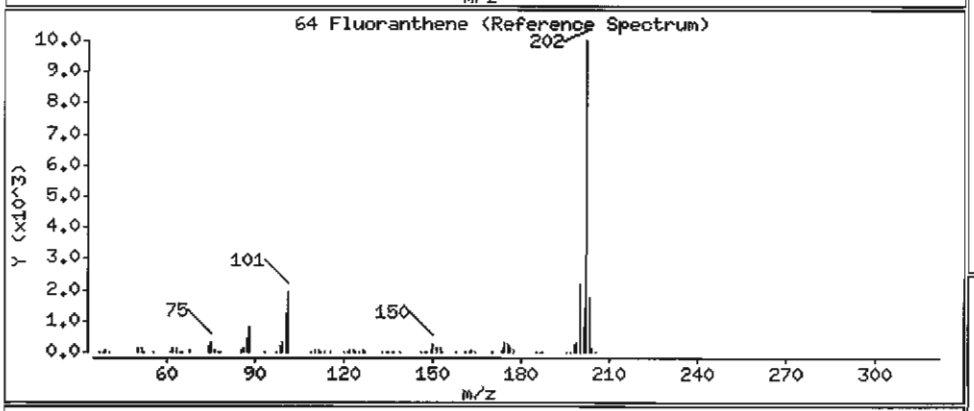
Column diameter: 0.32

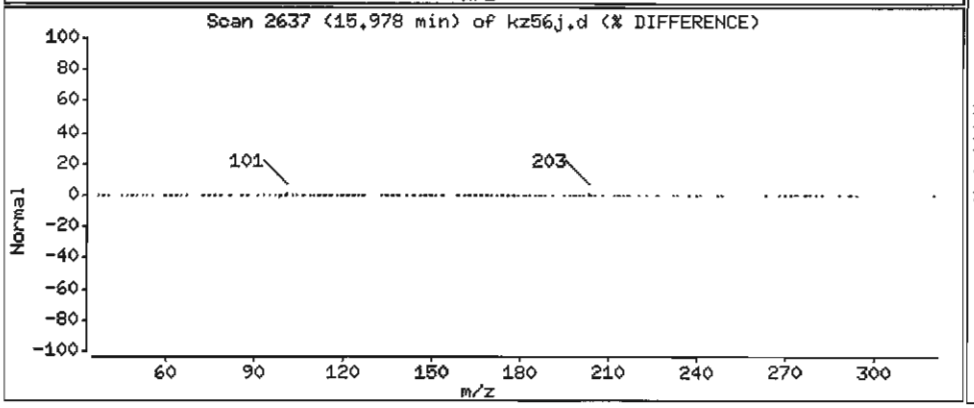
64 Fluoranthene

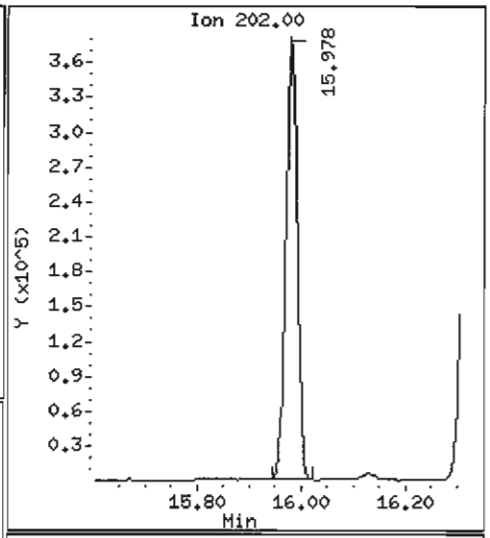
Concentration: 2270 ug/kg

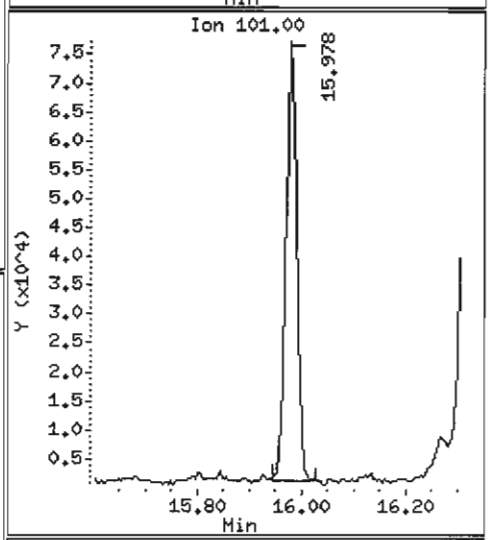


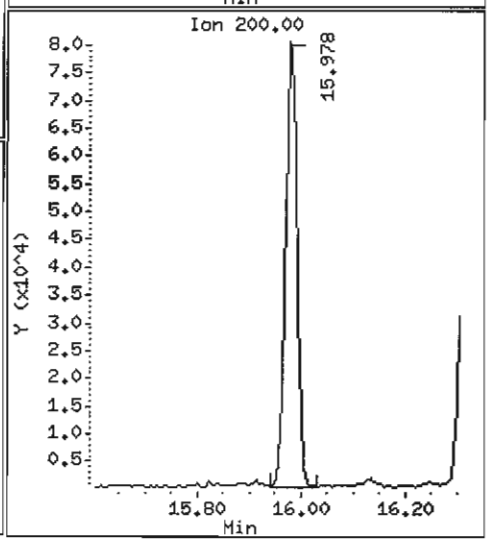












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

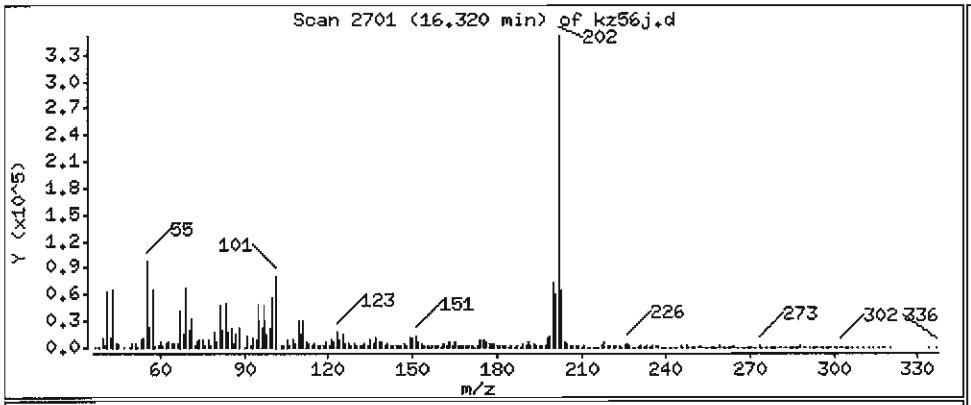
Operator: LJR/VTS

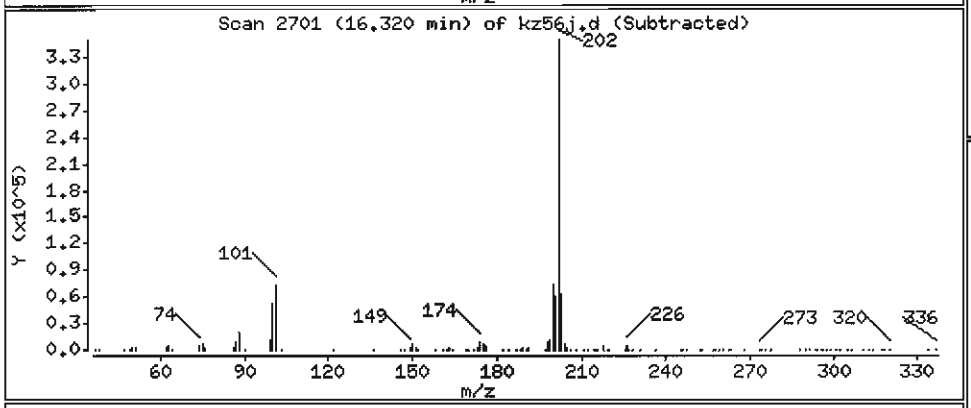
Column phase: ZB-5

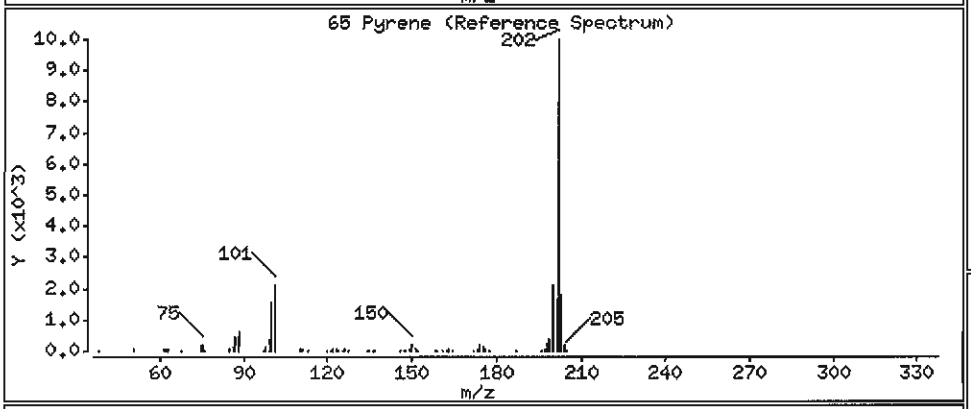
Column diameter: 0.32

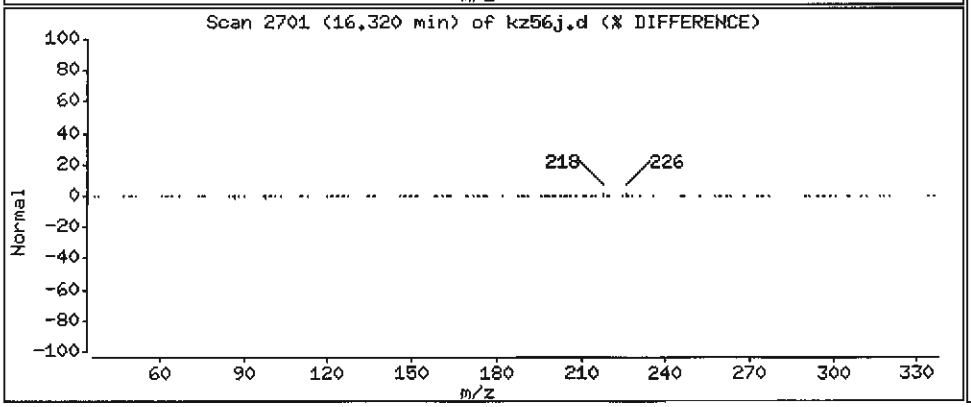
65 Pyrene

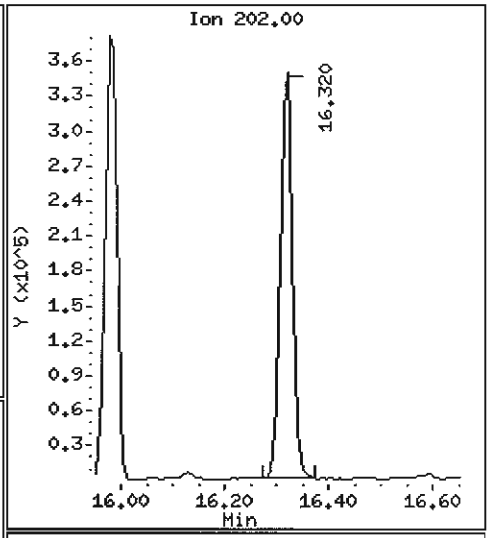
Concentration: 1935 ug/kg

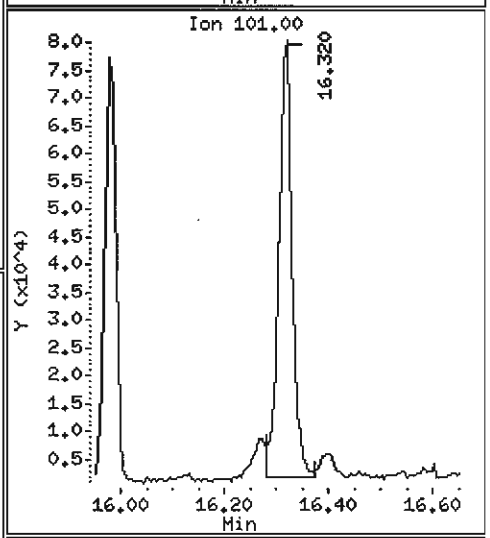


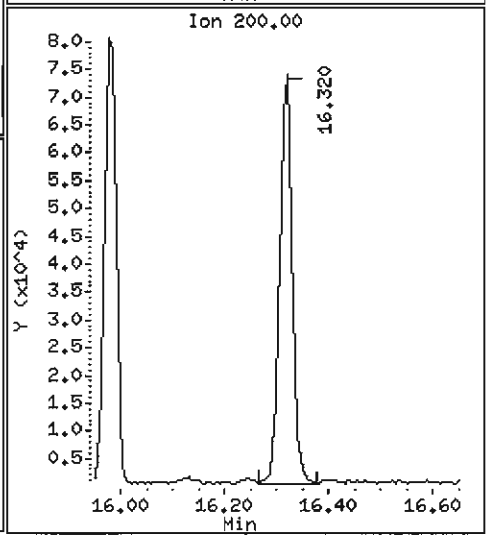












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

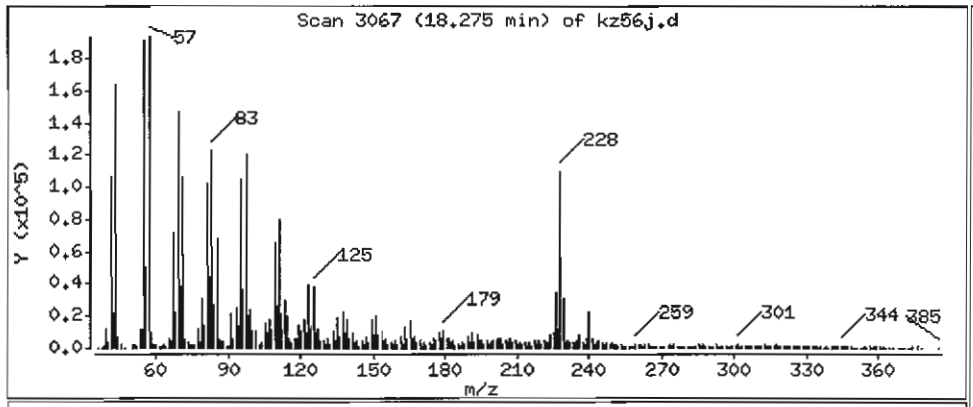
Operator: LJR/VTS

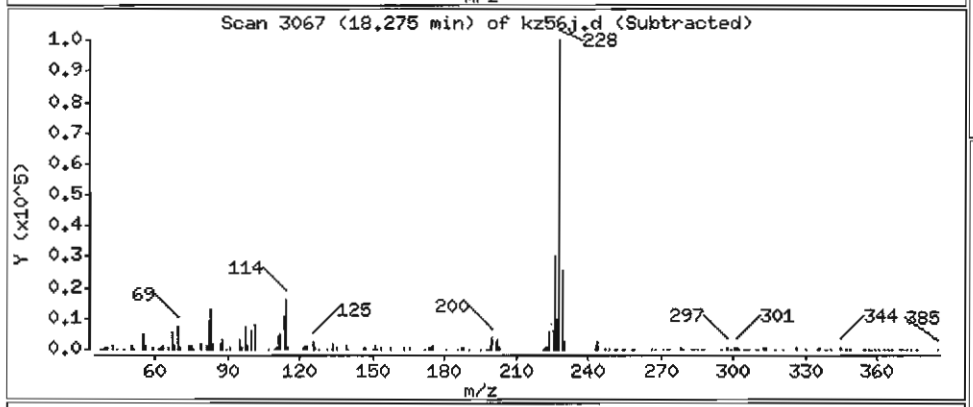
Column phase: ZB-5

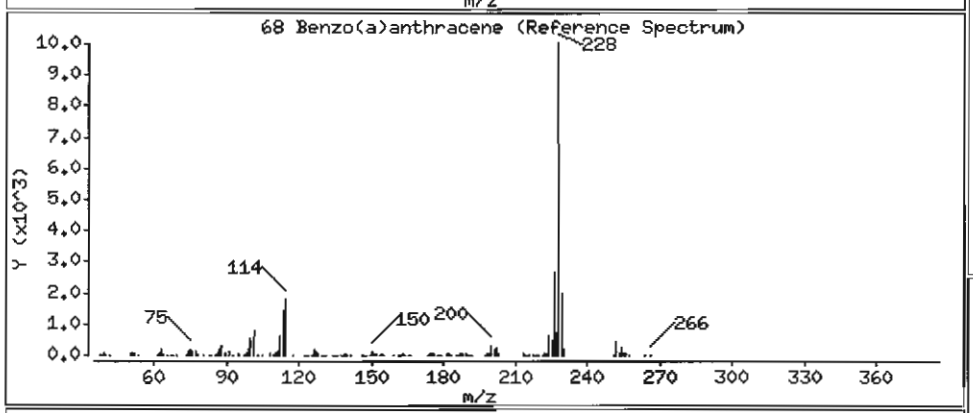
Column diameter: 0.32

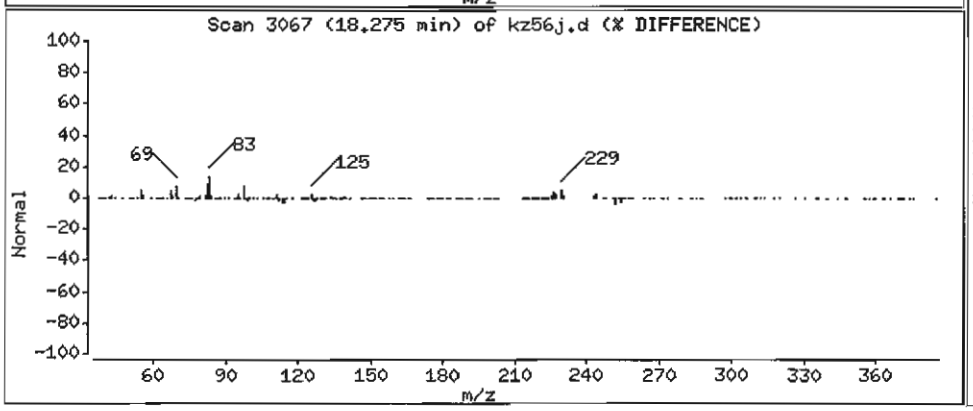
68 Benzo(a)anthracene

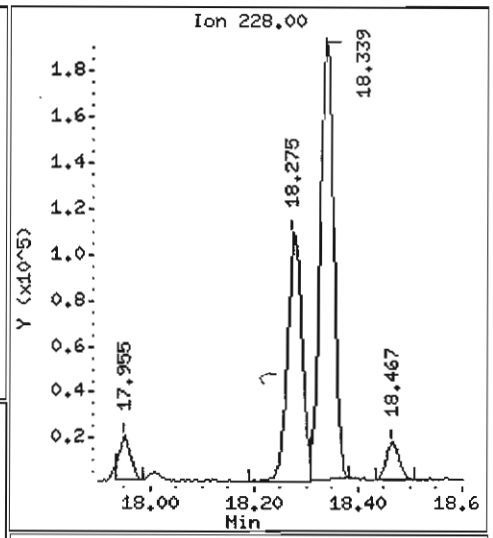
Concentration: 805.5 ug/kg

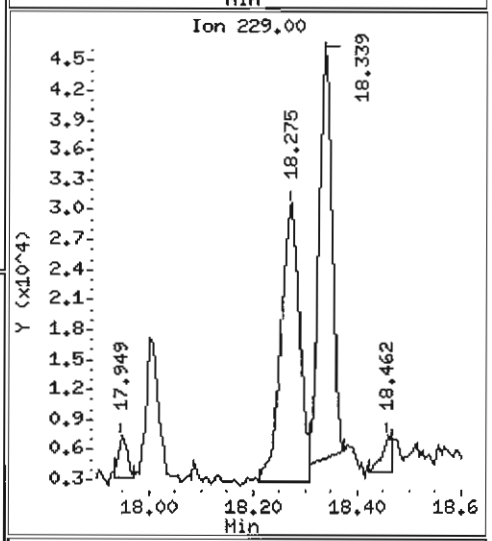


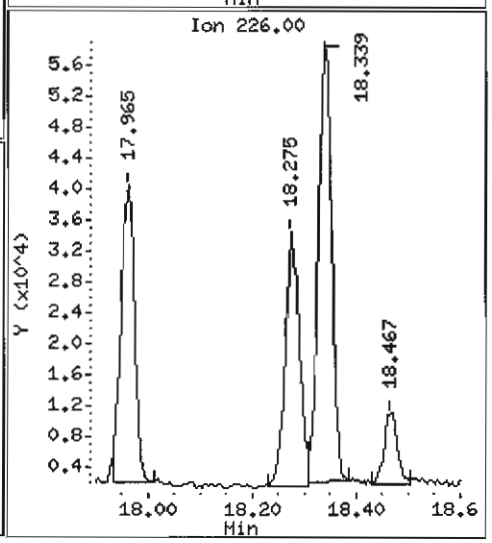












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

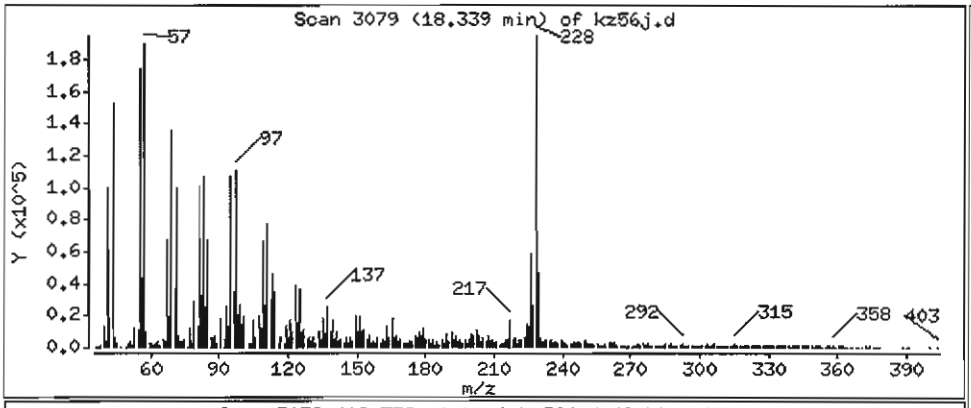
Operator: LJR/VTS

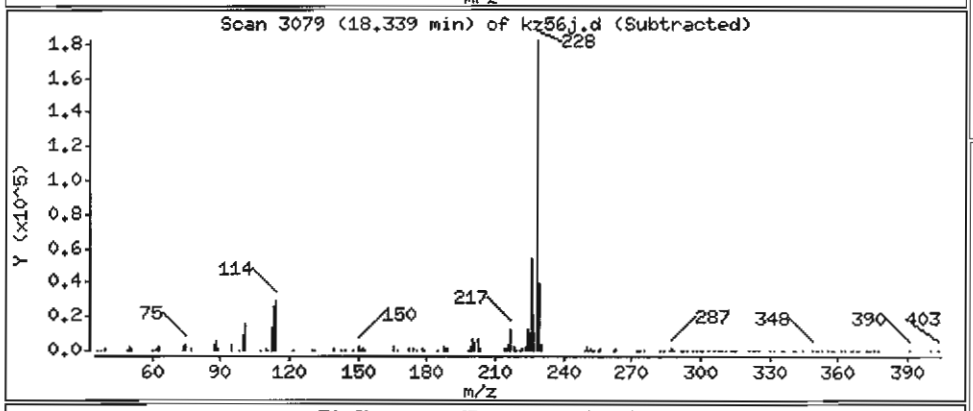
Column phase: ZB-5

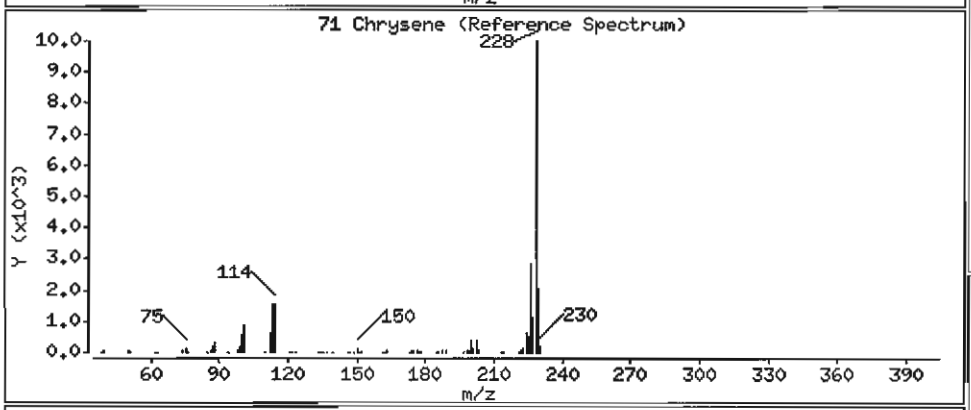
Column diameter: 0.32

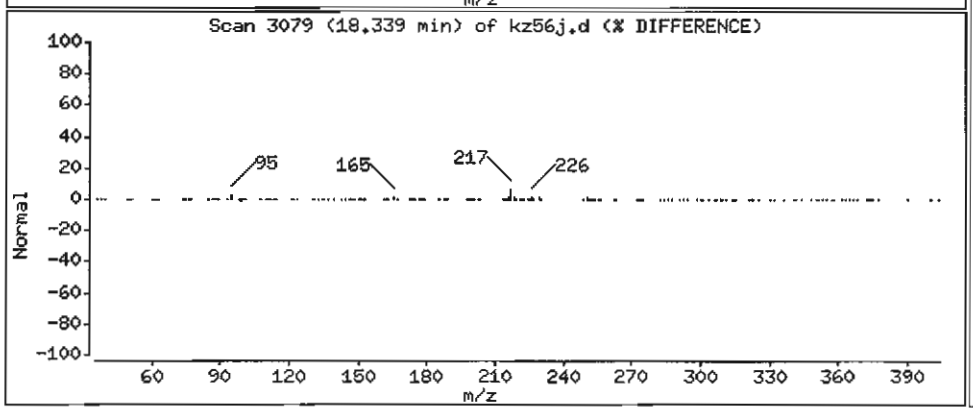
71 Chrysene

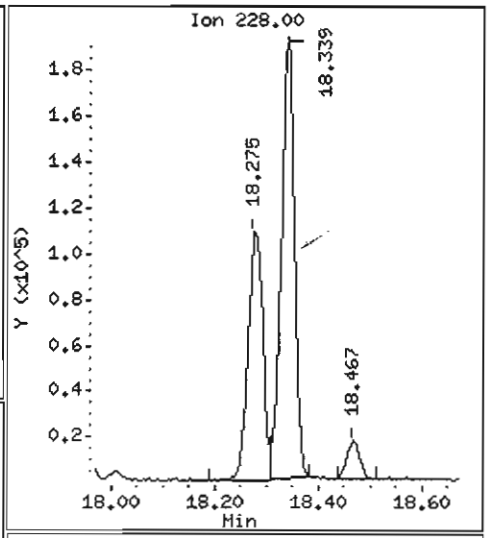
Concentration: 1273 ug/kg

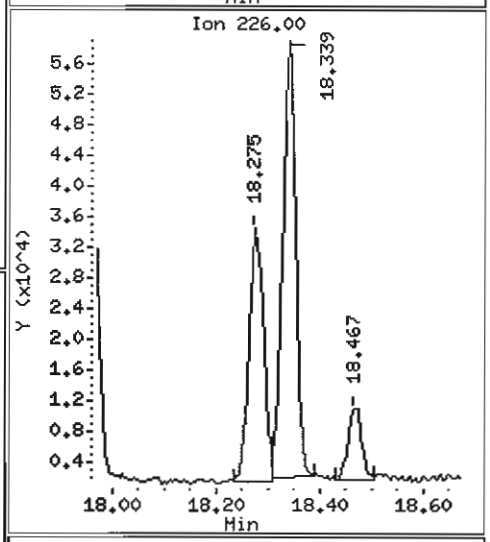


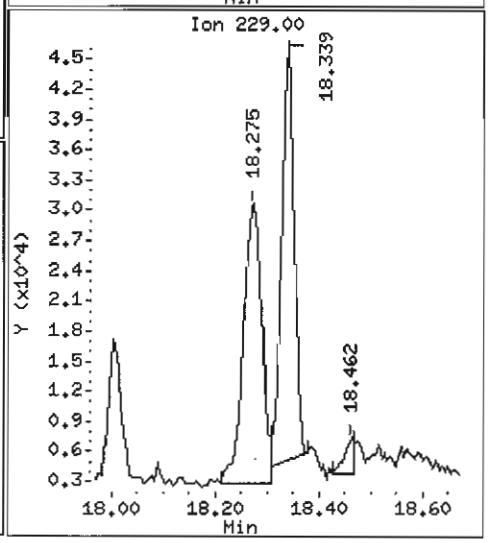












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

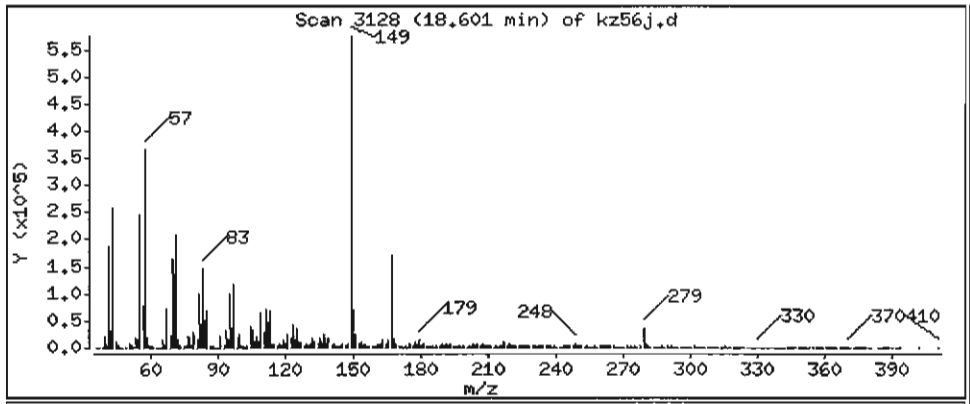
Operator: LJR/VTS

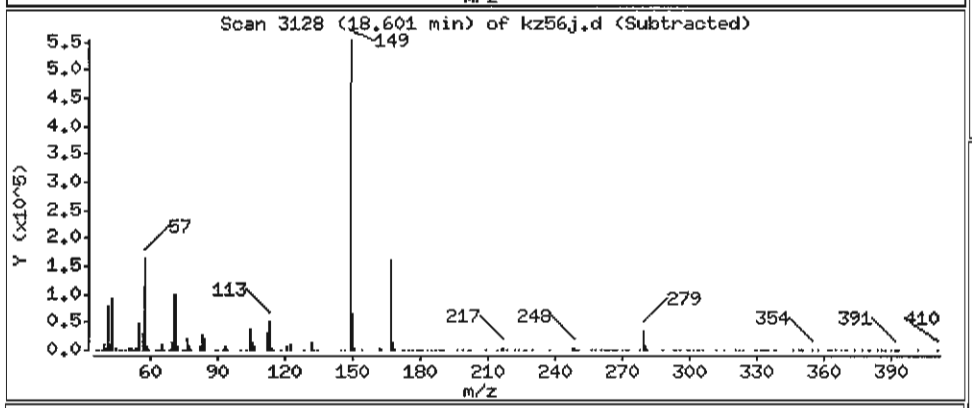
Column phase: ZB-5

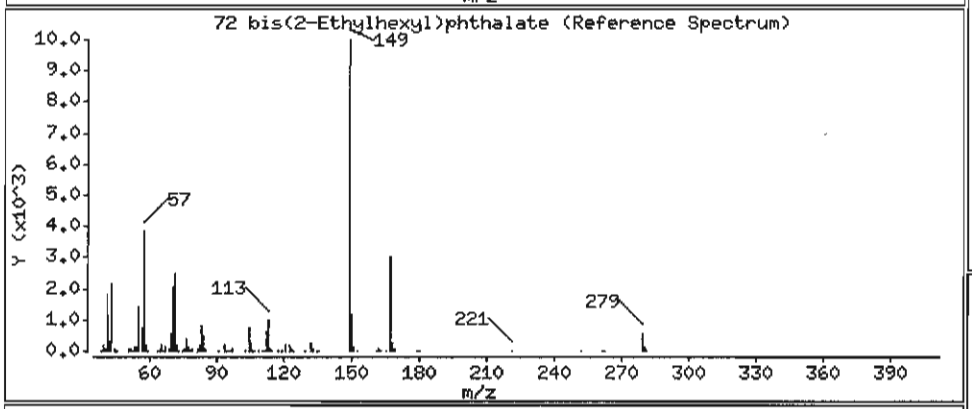
Column diameter: 0.32

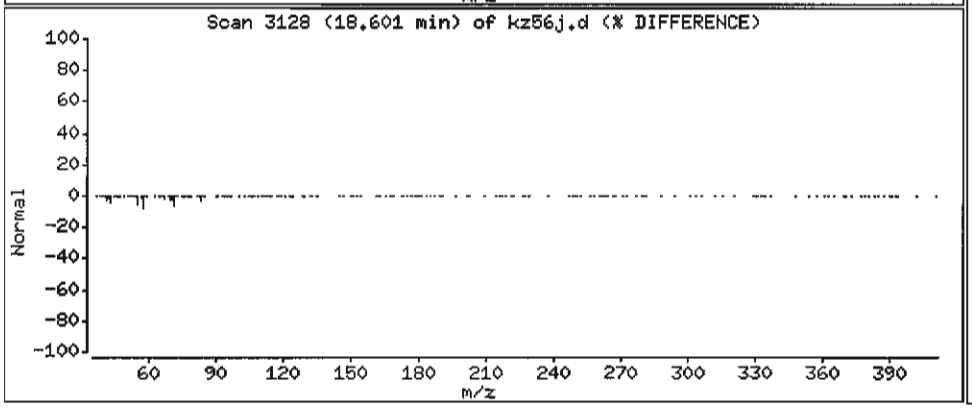
72 bis(2-Ethylhexyl)phthalate

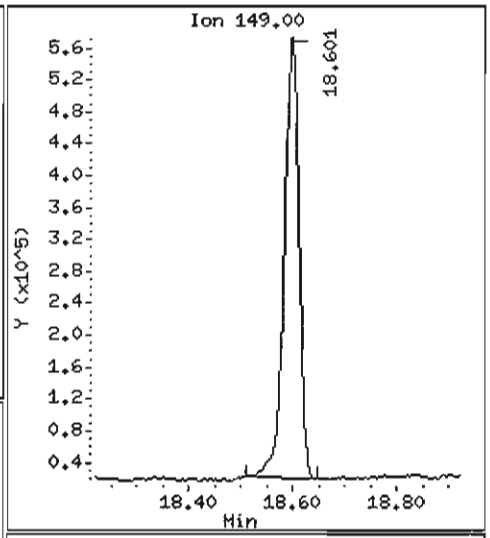
Concentration: 6115 ug/kg

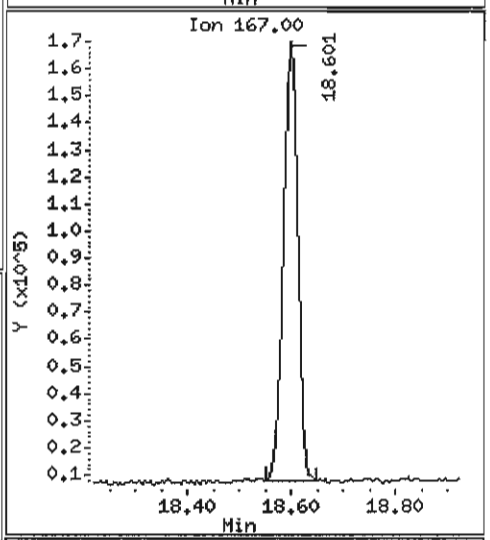


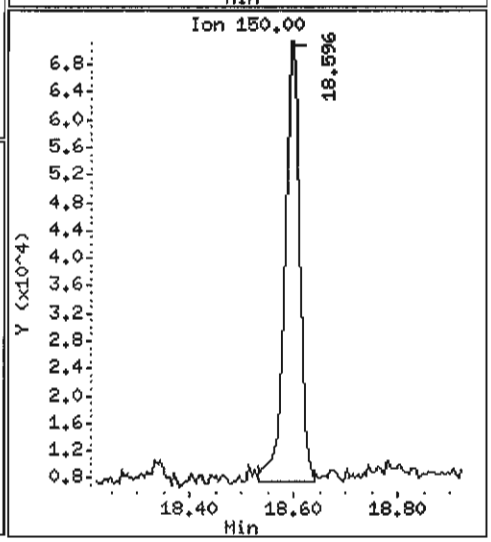












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

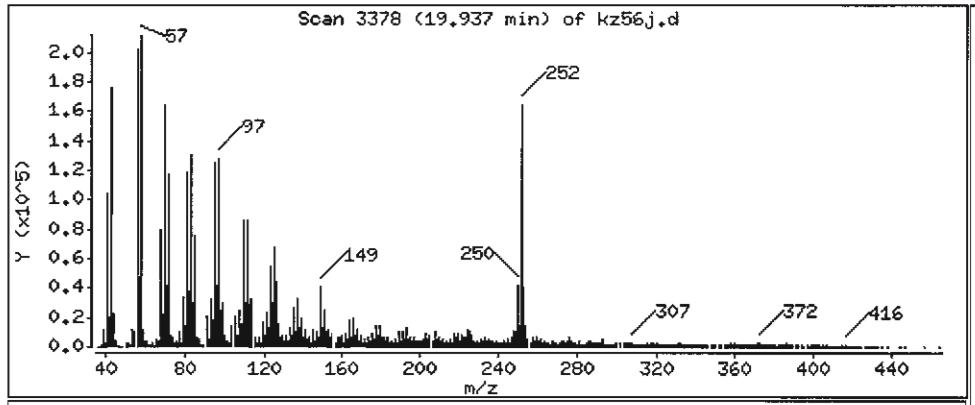
Operator: LJR/VTS

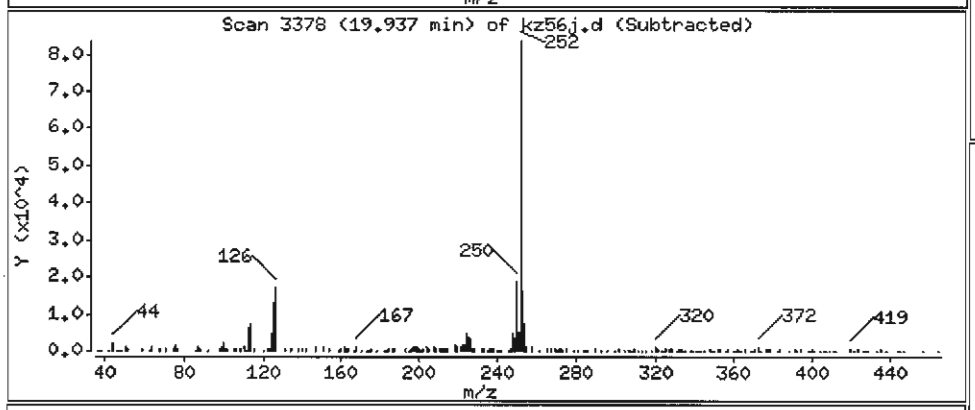
Column phase: ZB-5

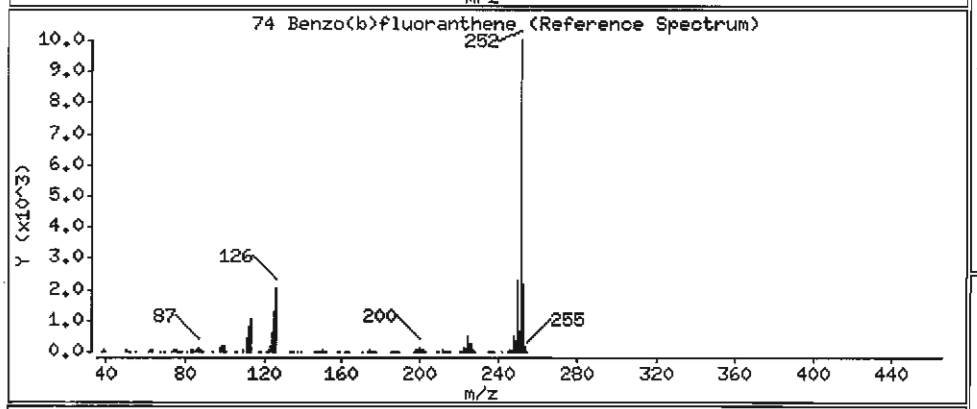
Column diameter: 0.32

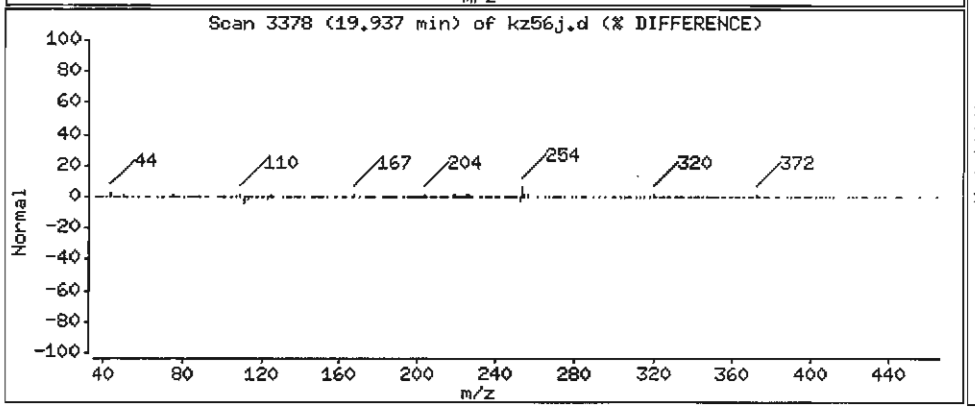
74 Benzo(b)fluoranthene

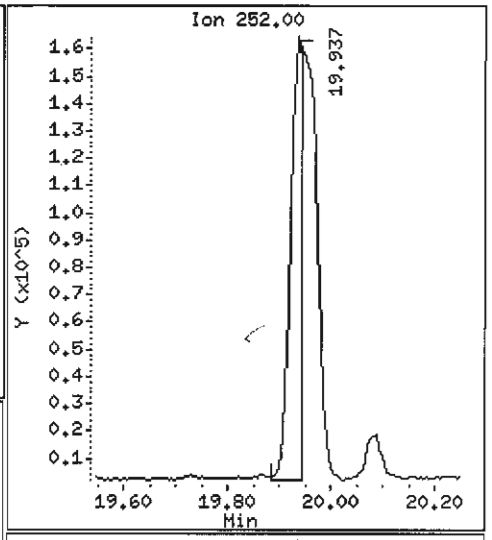
Concentration: 1179 ug/kg

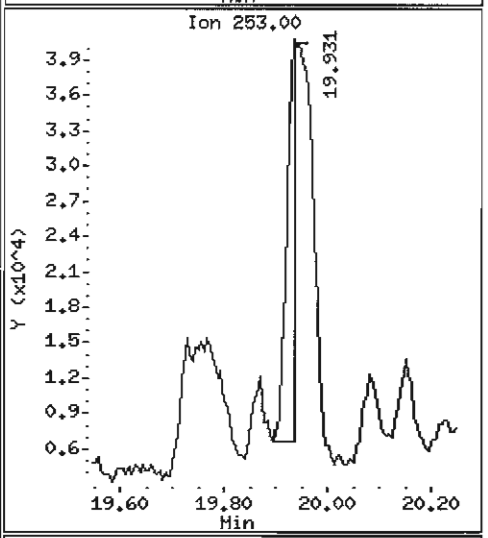


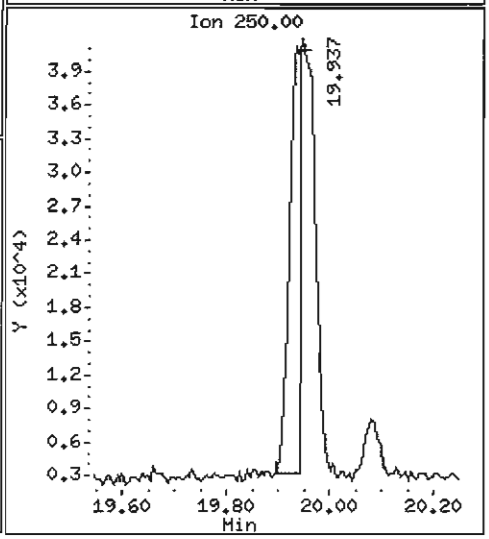












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

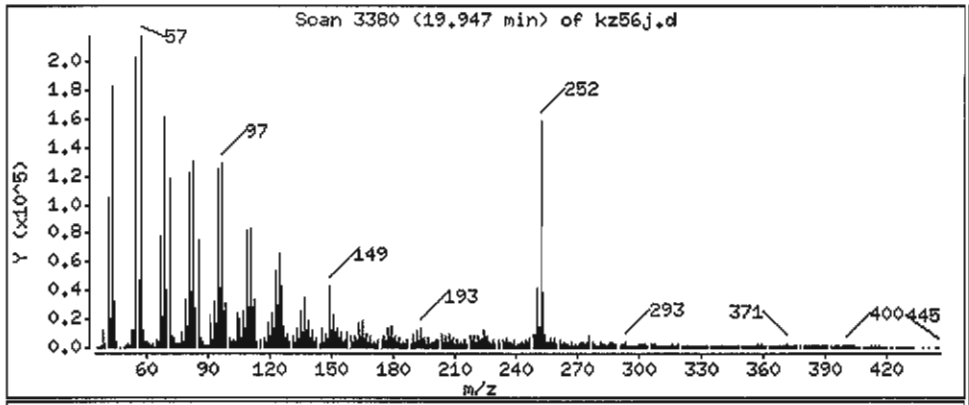
Operator: LJR/VTS

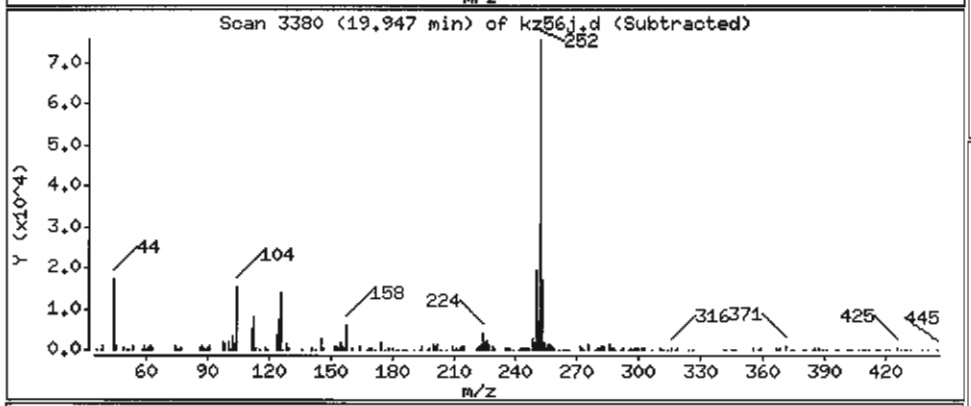
Column phase: ZB-5

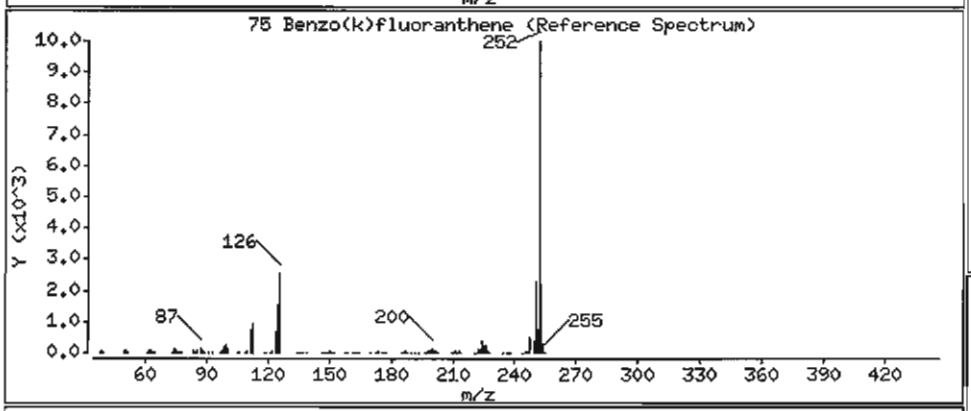
Column diameter: 0.32

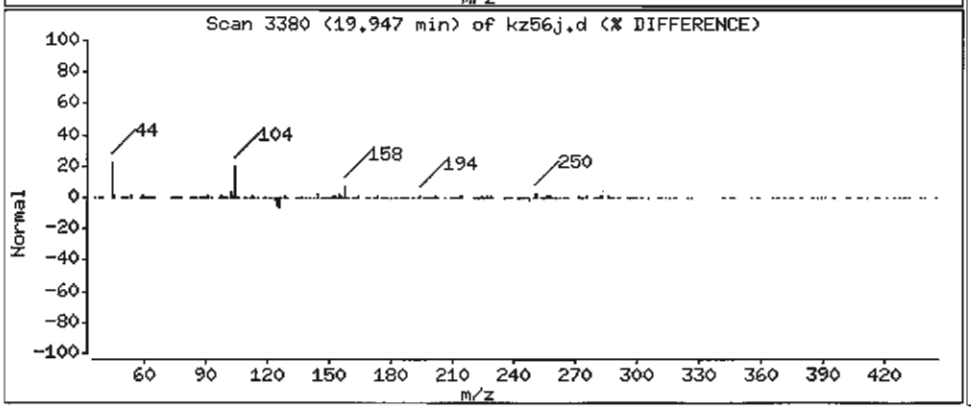
75 Benzo(k)fluoranthene

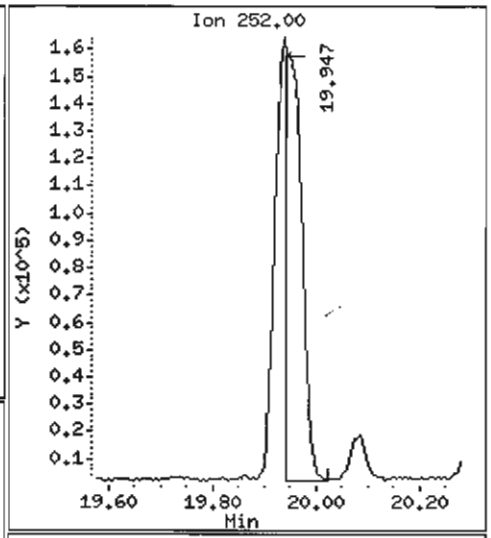
Concentration: 1613 ug/kg

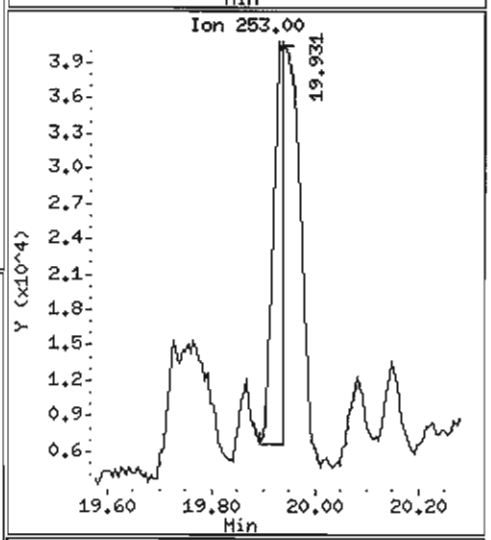


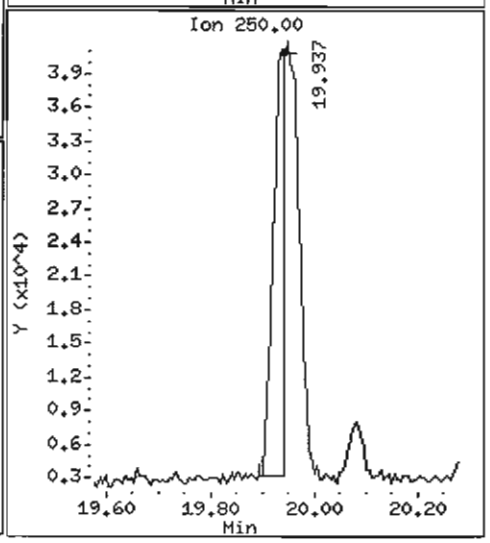












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

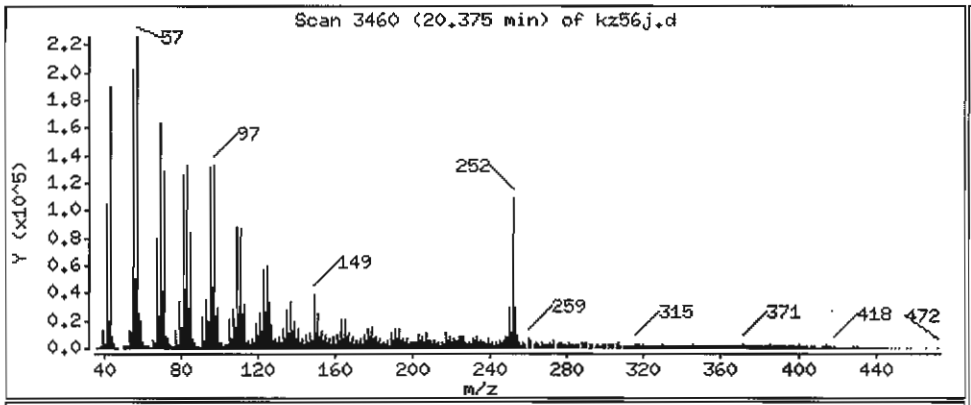
Operator: LJR/VTS

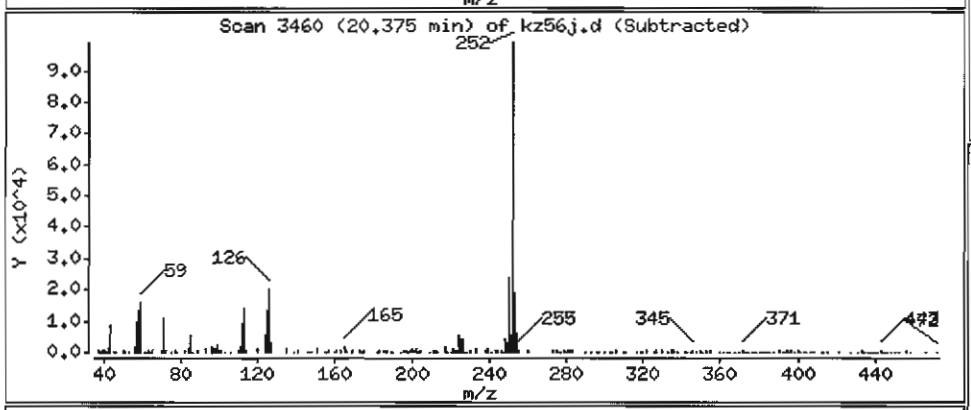
Column phase: ZB-5

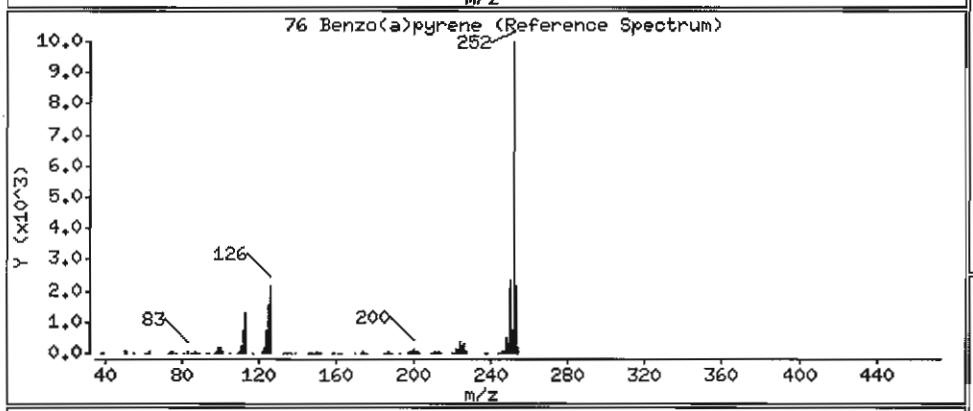
Column diameter: 0.32

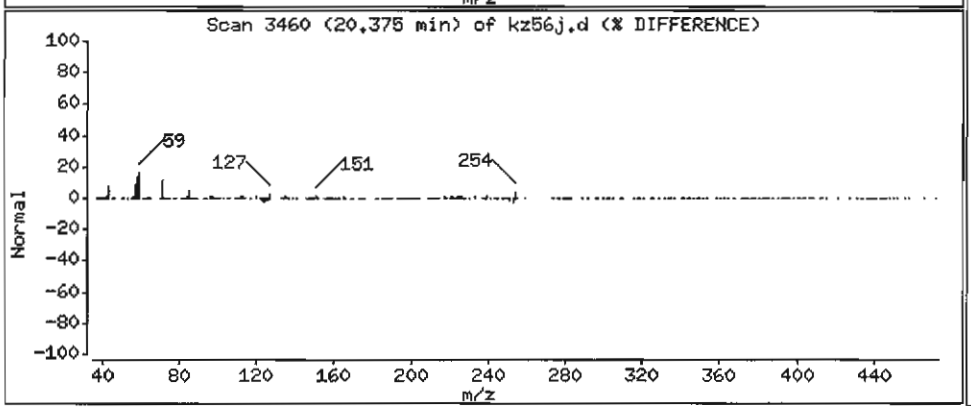
76 Benzo(a)pyrene

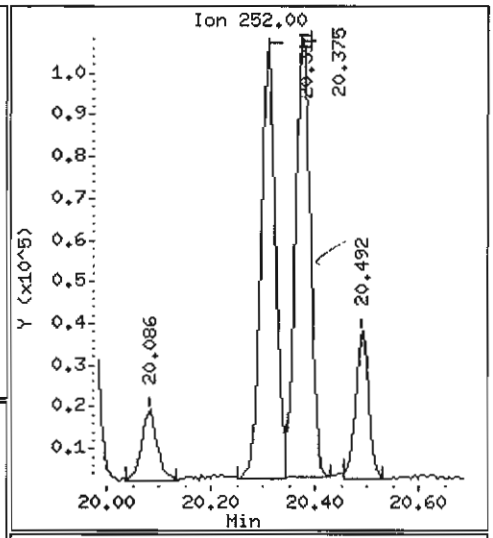
Concentration: 951.7 ug/kg

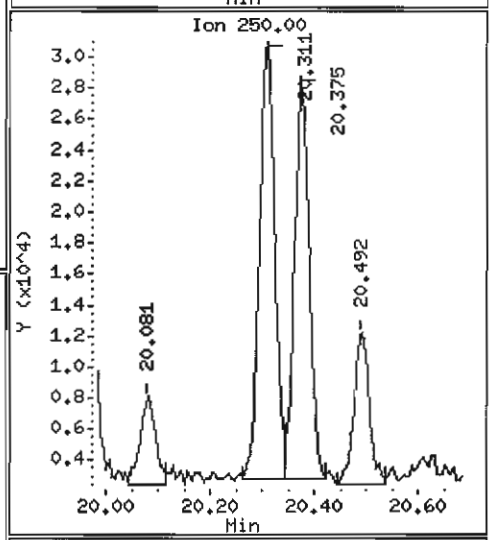


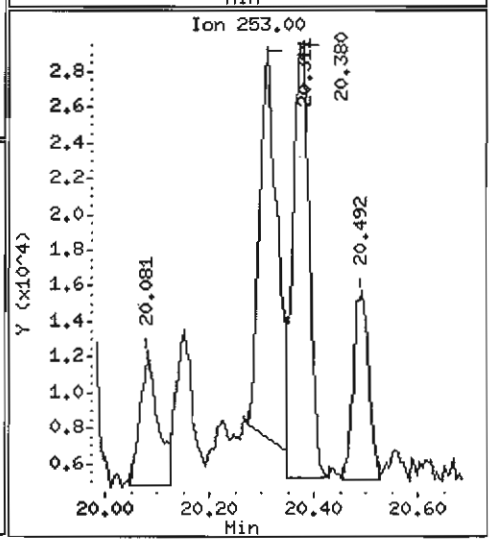












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

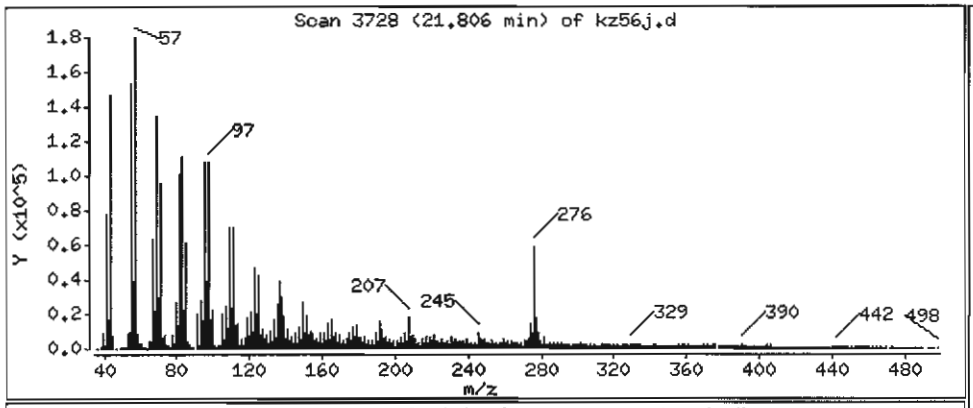
Operator: LJR/VTS

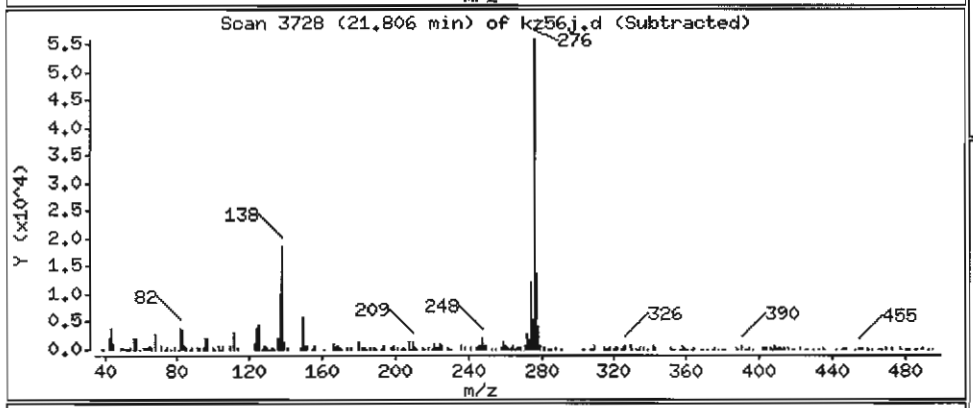
Column phase: ZB-5

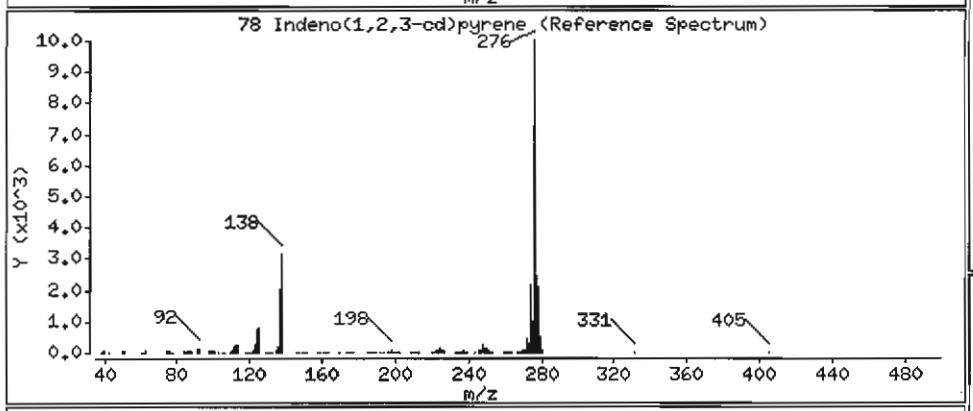
Column diameter: 0.32

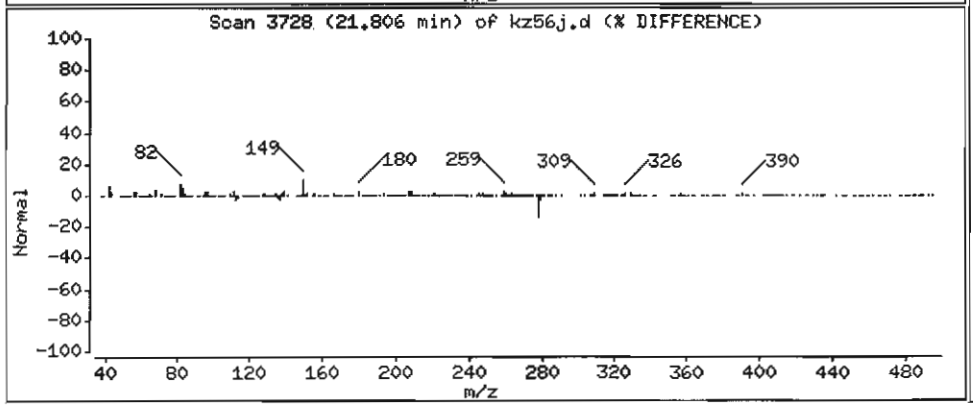
78 Indeno(1,2,3-cd)pyrene

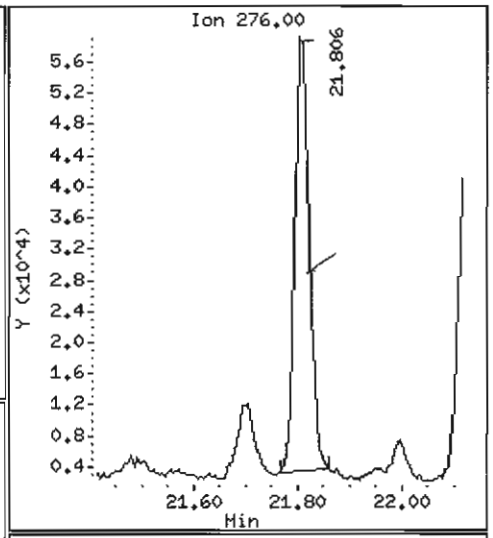
Concentration: 406.0 ug/kg

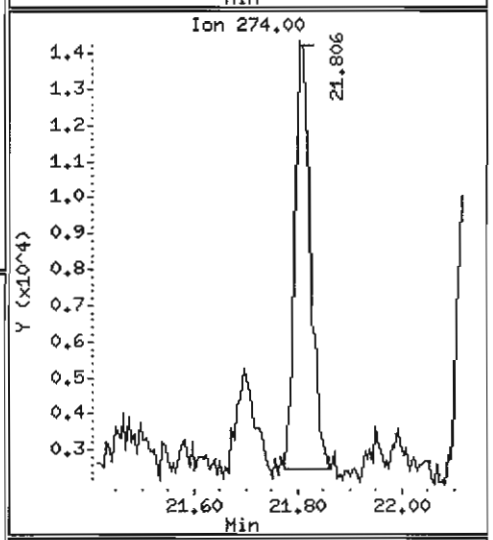


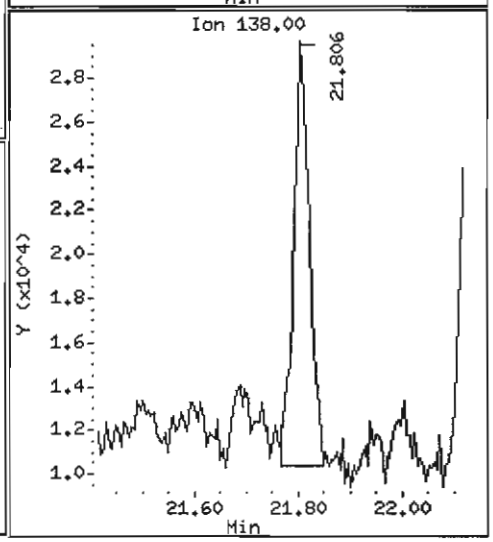












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

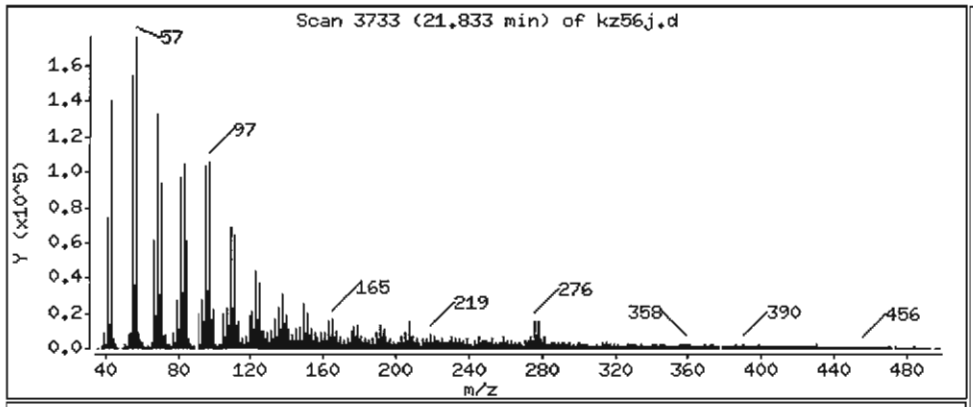
Operator: LJR/VTS

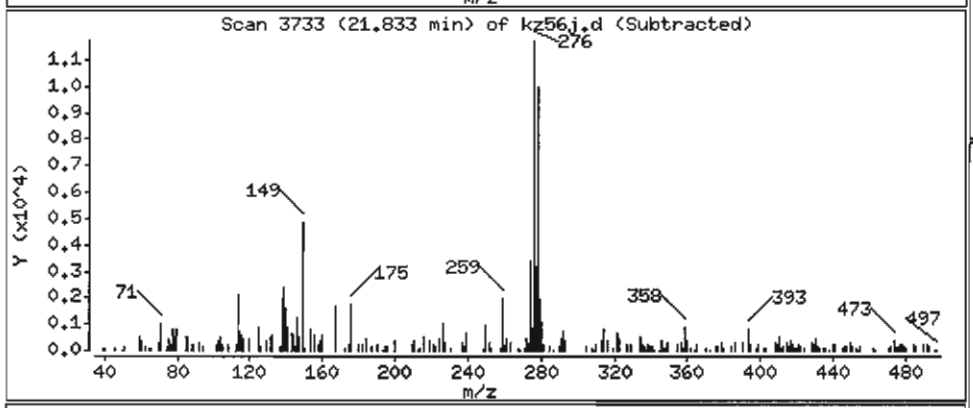
Column phase: ZB-5

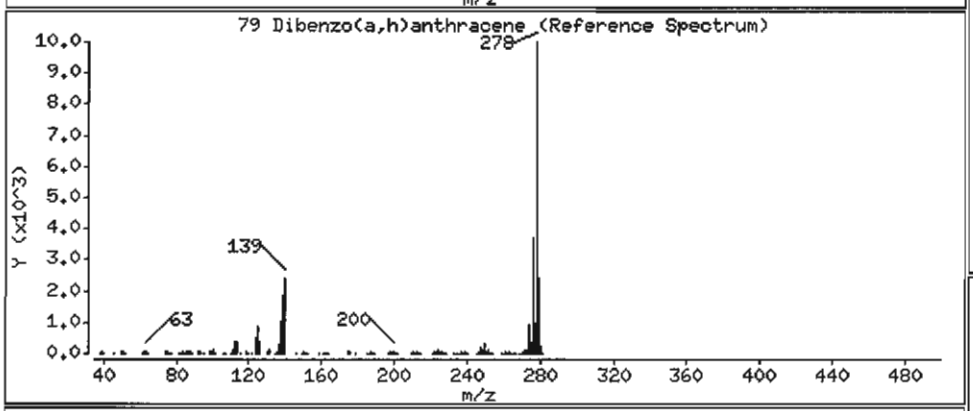
Column diameter: 0.32

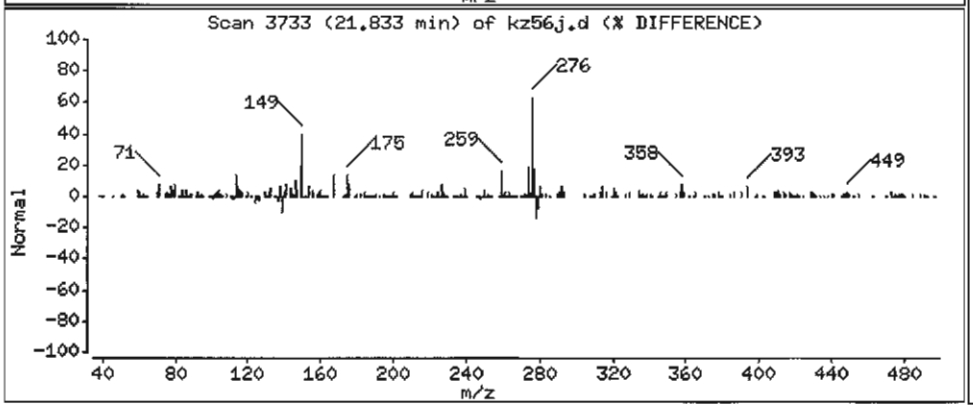
79 Dibenzo(a,h)anthracene

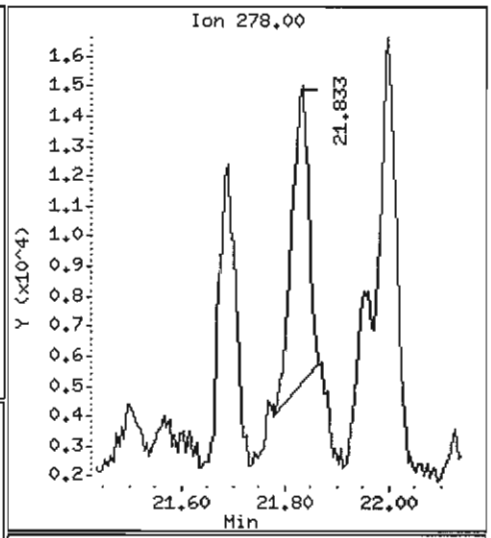
Concentration: 103.0 ug/kg

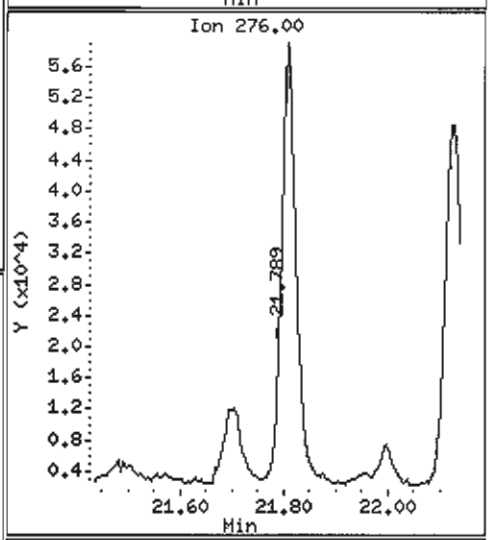


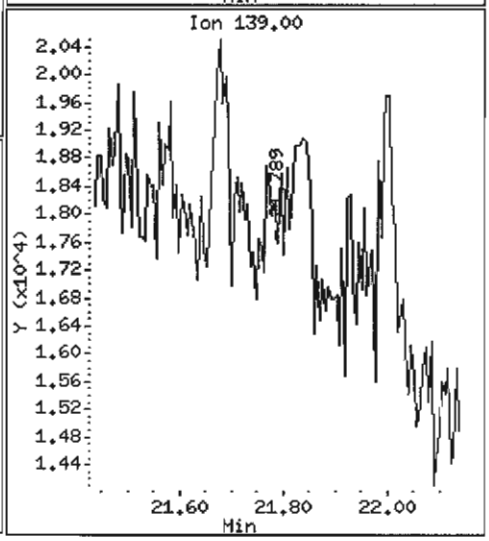












Data File: /chem1/nt6.i/20070529.b/kz56j.d

Date : 29-MAY-2007 12:39

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,3

Volume Injected (uL): 1.0

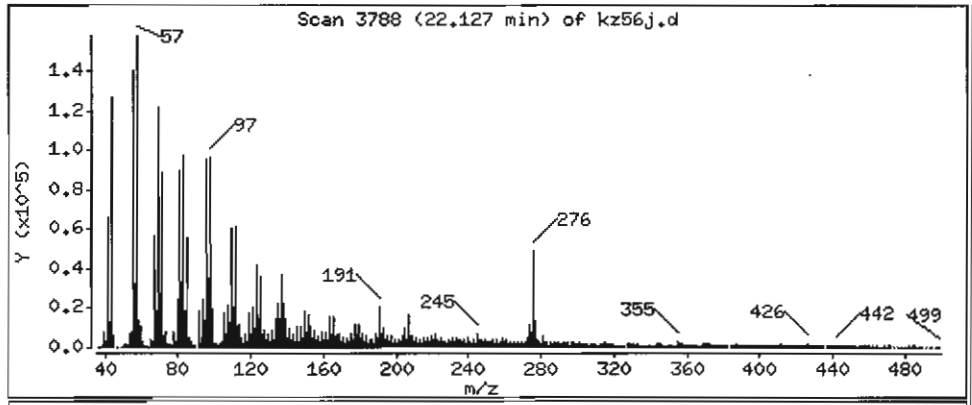
Operator: LJR/VTS

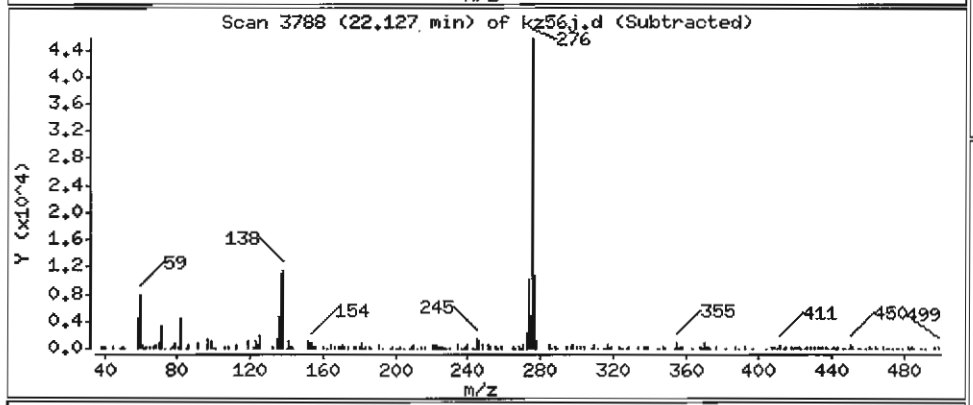
Column phase: ZB-5

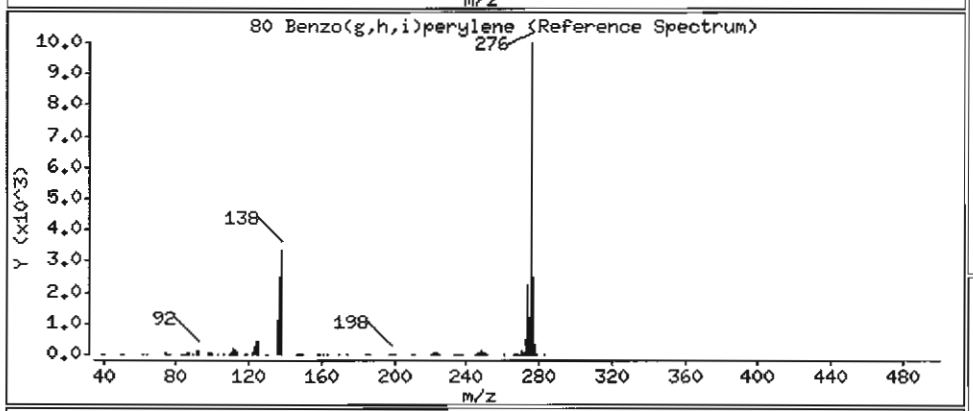
Column diameter: 0.32

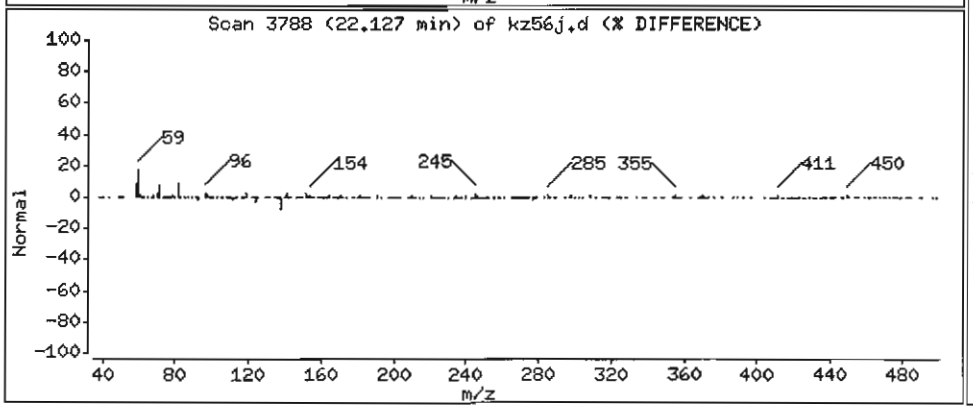
80 Benzo(g,h,i)perylene

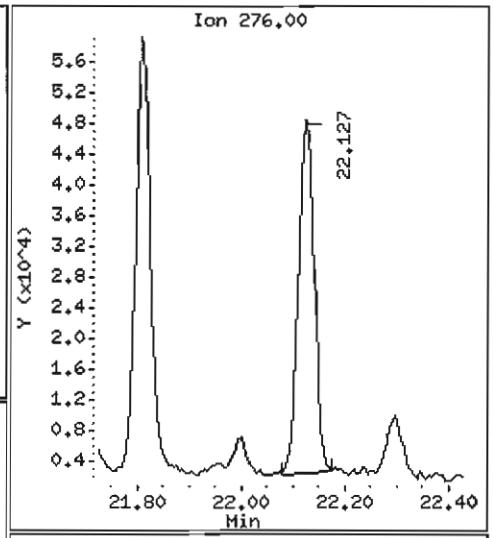
Concentration: 412.5 ug/kg

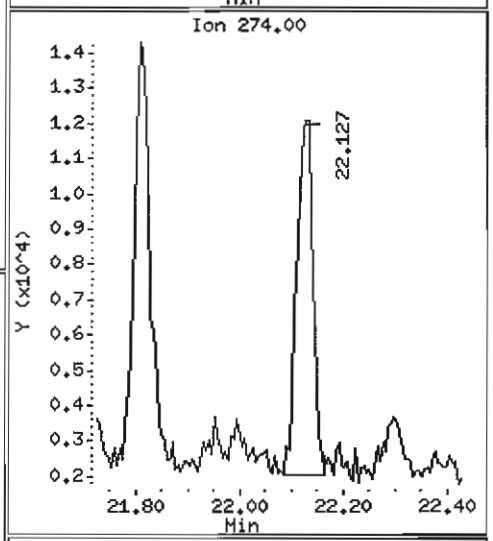


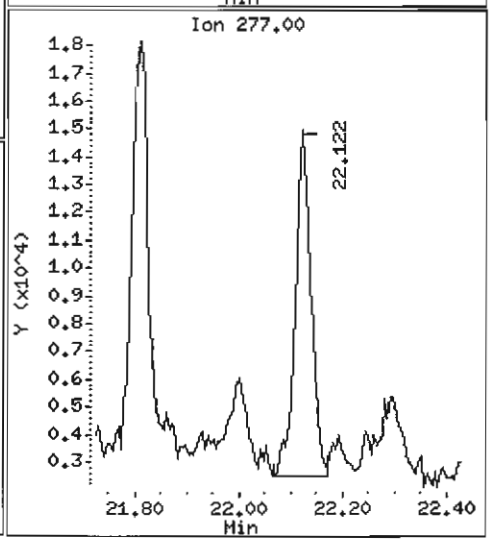












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC09-S
DILUTION

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 16:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 22.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 51.6%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	220	150 J
91-57-6	2-Methylnaphthalene	220	< 220 U
208-96-8	Acenaphthylene	220	< 220 U
83-32-9	Acenaphthene	220	< 220 U
132-64-9	Dibenzofuran	220	< 220 U
86-73-7	Fluorene	220	< 220 U
85-01-8	Phenanthrene	220	860
120-12-7	Anthracene	220	180 J
206-44-0	Fluoranthene	220	2,300
129-00-0	Pyrene	220	2,000
56-55-3	Benzo(a)anthracene	220	790
117-81-7	bis(2-Ethylhexyl)phthalate	220	6,200
218-01-9	Chrysene	220	1,300
205-99-2	Benzo(b)fluoranthene	220	1,400
207-08-9	Benzo(k)fluoranthene	220	1,500
50-32-8	Benzo(a)pyrene	220	950
193-39-5	Indeno(1,2,3-cd)pyrene	220	410
53-70-3	Dibenz(a,h)anthracene	220	< 220 U
191-24-2	Benzo(g,h,i)perylene	220	430

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.2%	2-Fluorobiphenyl	60.0%
d14-p-Terphenyl	60.2%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	59.1%	2-Fluorophenol	54.3%
2,4,6-Tribromophenol	62.9%	d4-2-Chlorophenol	58.9%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56jdl.d
Lab Smp Id: KZ56J — Client Smp ID: Y3-RC09-S
Inj Date : 29-MAY-2007 16:32
Operator : LJR/VTS — Inst ID: nt6.i
Smp Info : KZ56J,5
Misc Info : 07-9556
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff — Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 — Cal File: 0400503.d
Als bottle: 14
Dil Factor: 5.00000
Integrator: HP RTE — Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/30/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	~~1000.00000~~	Volume of final extract (uL)
Ws	47.00000	Weight of sample extracted (g)
M	51.60000	% Moisture

Cpnd Variable — Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.922	4.903	(0.723)	82292	4.07445	895.6
$	2 Phenol-d5	99	6.461	6.447	(0.949)	104979	4.42989	973.7
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	6.525	6.521	(0.958)	72399	4.41839	971.2
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	6.808	6.805	(1.000)	222149	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	7.102	7.093	(1.043)	29242	2.91839	641.5
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.727	7.729	(0.876)	57552	3.01447	662.6
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.822	8.819	(1.000)	802352	20.0000	
	28 Naphthalene	128	8.854	8.851	(1.004)	33193	0.69843LDL	153.5
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.622	10.619	(0.911)	83589	2.99910	659.2
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.659	11.655	(1.000)	412967	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.946	12.937	(1.110)	19830	4.71655	1037
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.009	14.001	(1.000)	562443	20.0000	
	60 Phenanthrene	178	14.041	14.038	(1.002)	146951	3.91499	860.5
	61 Anthracene	178	14.116	14.107	(1.008)	31511	0.81248LDL	178.6
	62 Carbazole	167	14.421	14.412	(1.029)	29199	0.87492	192.3
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.975	15.956	(1.140)	367017	10.3057	2265
65 Pyrene	202	16.317	16.303	(0.892)	362189	9.05754	1991
$ 66 Terphenyl-d14	244	16.664	16.650	(0.911)	76200	3.00917	661.4
67 Butylbenzylphthalate	149	17.567	17.558	(0.960)	29552	1.57180	345.5(M)
68 Benzo(a)anthracene	228	18.272	18.253	(0.999)	128709	3.57532	785.9
* 69 Chrysene-d12	240	18.299	18.280	(1.000)	481925	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.331	18.322	(1.002)	211750	5.81463	1278
72 bis(2-Ethylhexyl)phthalate	149	18.588	18.573	(0.952)	691180	28.0281	6160(M)
* 134 Di-n-octylphthalate-d4	153	19.522	19.503	(1.000)	720057	20.0000	
73 Di-n-octylphthalate	149	19.538	19.514	(1.001)	47249	1.10486	242.8(M)
74 Benzo(b)fluoranthene	252	19.923	19.898	(0.974)	166754	6.61909	1455
75 Benzo(k)fluoranthene	252	19.939	19.930	(0.975)	168929	6.98013	1534(M)
76 Benzo(a)pyrene	252	20.361	20.336	(0.996)	109031	4.32385	950.4
* 77 Perylene-d12	264	20.447	20.416	(1.000)	388553	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.798	21.768	(1.066)	55843	1.87315	411.7(M)
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	22.108	22.078	(1.081)	53286	1.95112	428.9(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56jdl.d
Lab Smp Id: KZ56J
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9556

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC09-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	222149	2.05
27 Naphthalene-d8	775413	387706	1550826	802352	3.47
42 Acenaphthene-d10	371068	185534	742136	412967	11.29
59 Phenanthrene-d10	554165	277082	1108330	562443	1.49
69 Chrysene-d12	436021	218010	872042	481925	10.53
134 Di-n-octylphthala	773344	386672	1546688	720057	-6.89
77 Perylene-d12	622369	311184	1244738	388553	-37.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.05
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.04
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.03
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.06
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.11
134 Di-n-octylphthala	19.50	19.00	20.00	19.52	0.10
77 Perylene-d12	20.42	19.92	20.92	20.45	0.15

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56J
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9556

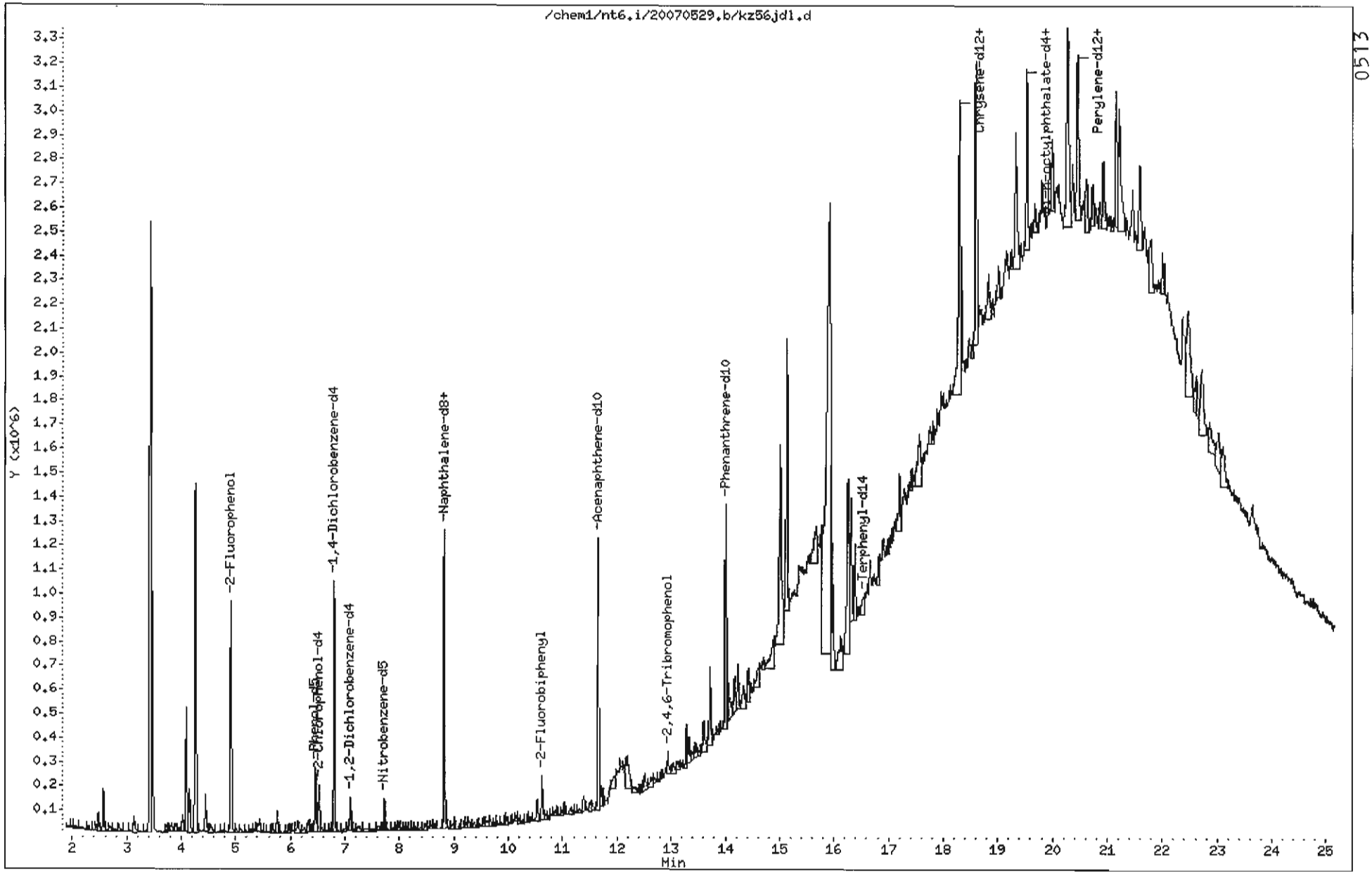
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC09-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1648	895.6	54.33	11-84
$ 2 Phenol-d5	1648	973.7	59.07	25-86
$ 5 2-Chlorophenol-d4	1648	971.2	58.91	23-91
$ 10 1,2-Dichlorobenzen	1099	641.5	58.37	24-90
$ 18 Nitrobenzene-d5	1099	662.6	60.29	26-88
$ 36 2-Fluorobiphenyl	1099	659.2	59.98	34-91
$ 55 2,4,6-Tribromophen	1648	1037	62.89	25-107
$ 66 Terphenyl-d14	1099	661.4	60.18	22-100

Data File: /chem1/nt6.i/20070529.b/kz56jd1.d
Date : 29-MAY-2007 16:32
Client ID: Y3-RC09-S
Sample Info: KZ56J,5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



0513

Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

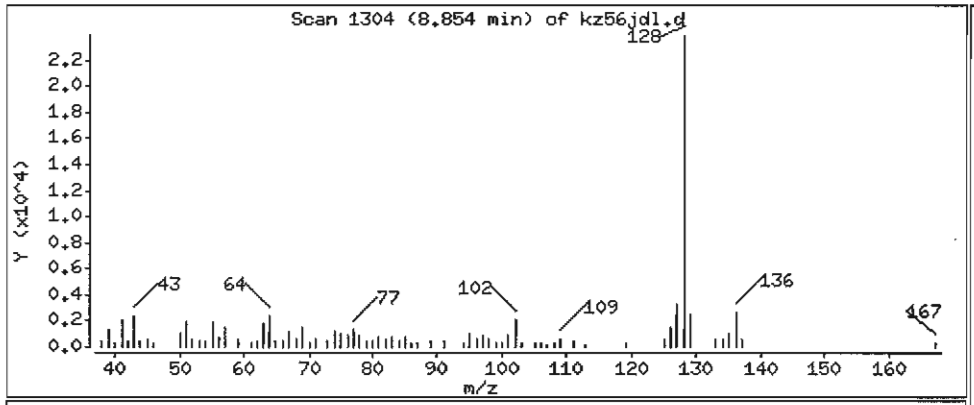
Operator: LJR/VTS

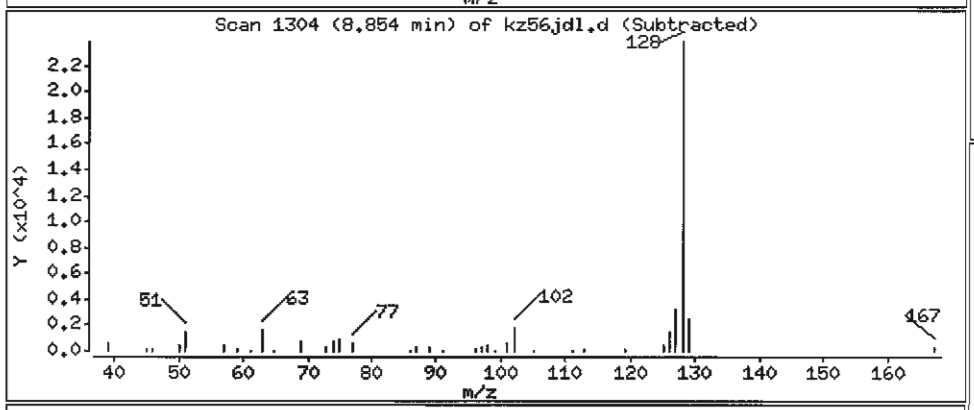
Column phase: ZB-5

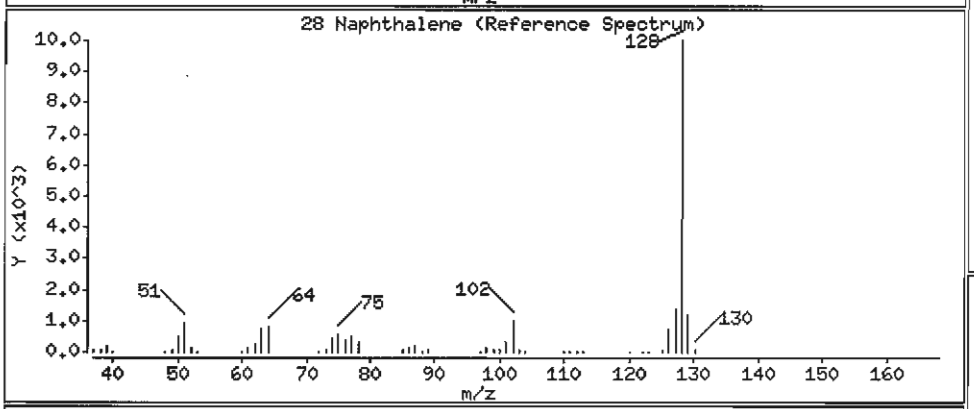
Column diameter: 0.32

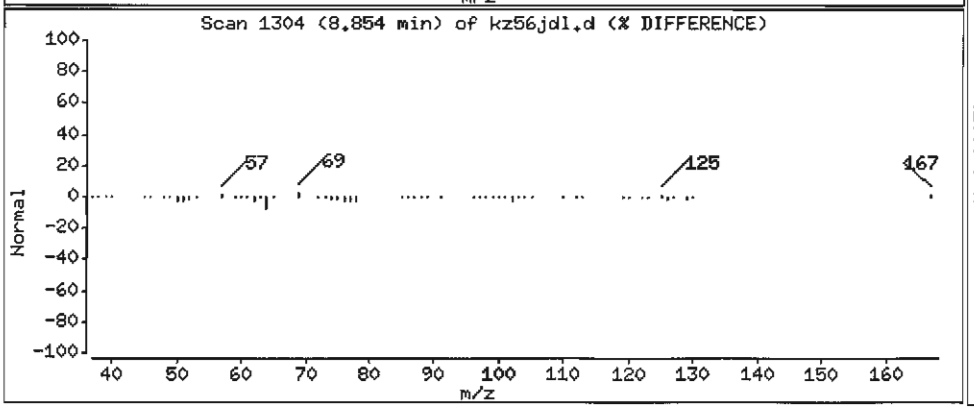
28 Naphthalene

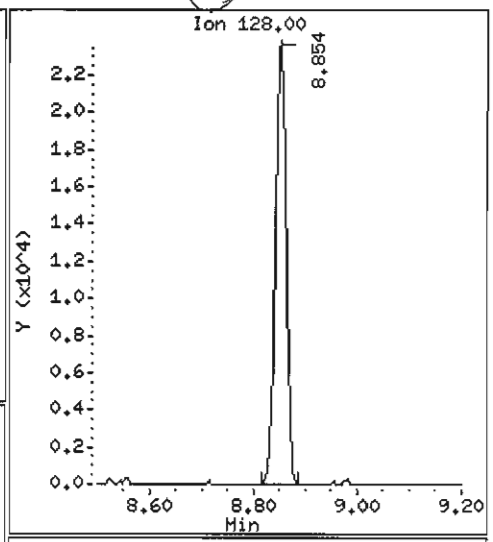
Concentration: 153.5 ug/kg

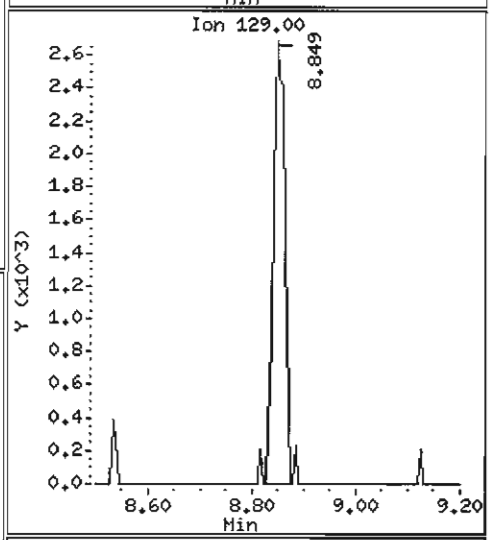


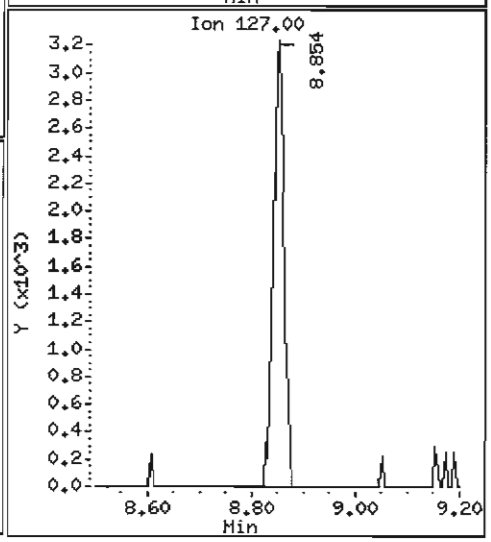












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

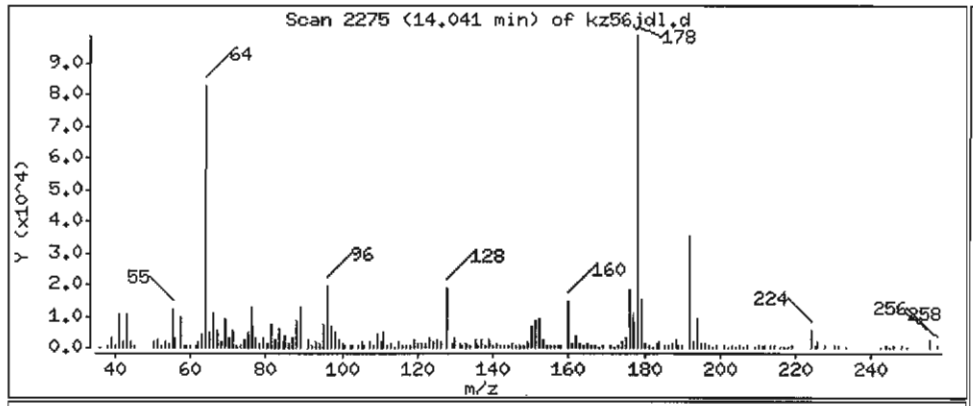
Operator: LJR/VTS

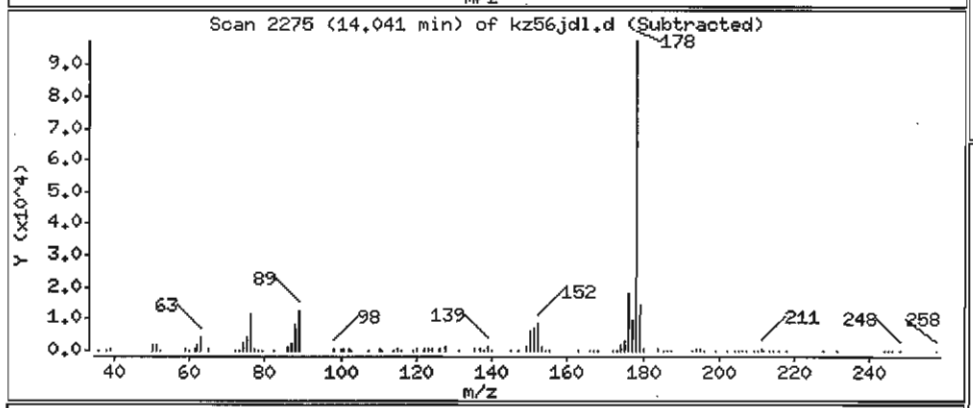
Column phase: ZB-5

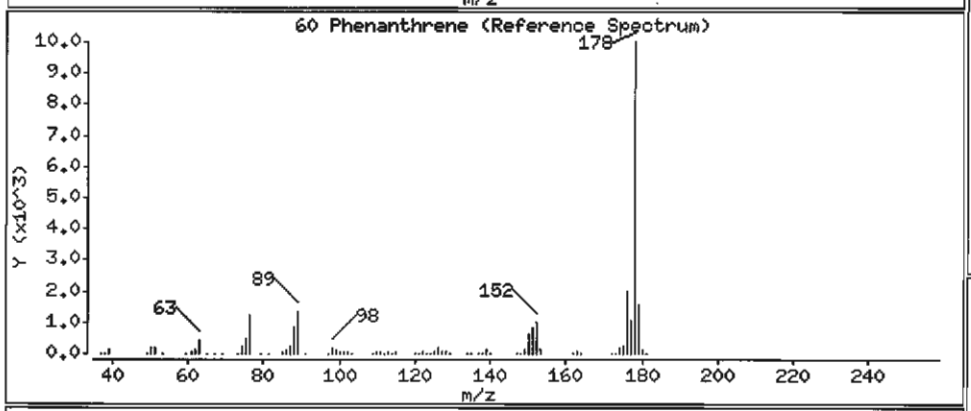
Column diameter: 0.32

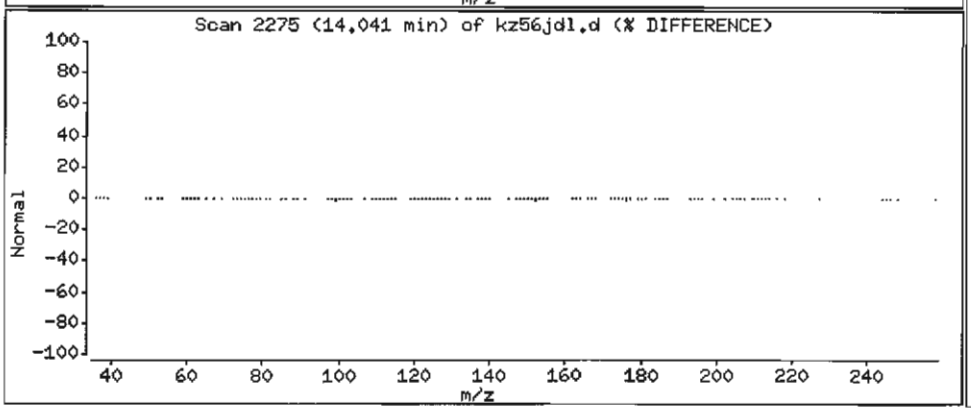
60 Phenanthrene

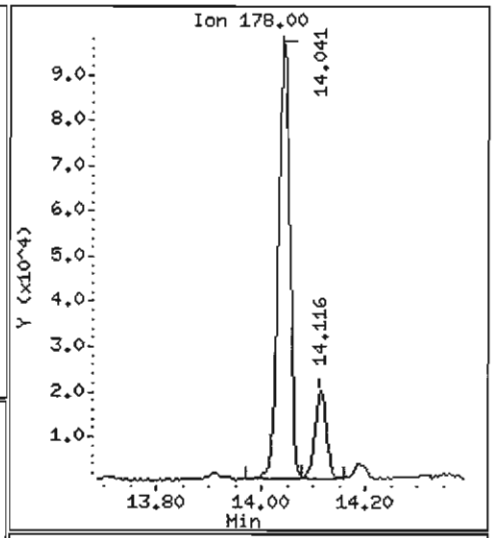
Concentration: 860.5 ug/kg

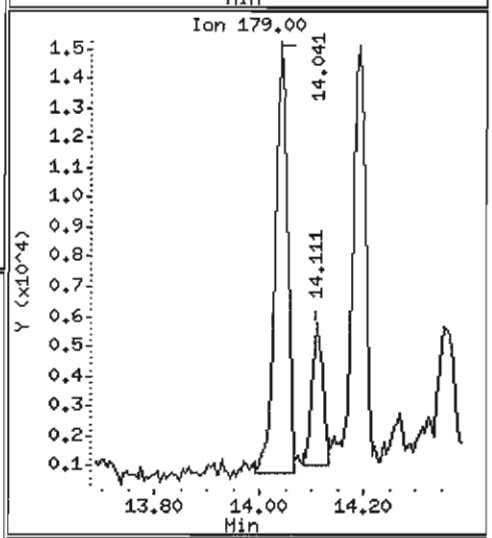


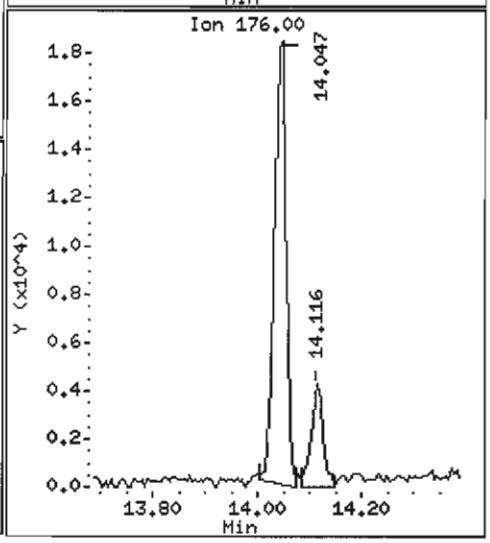












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

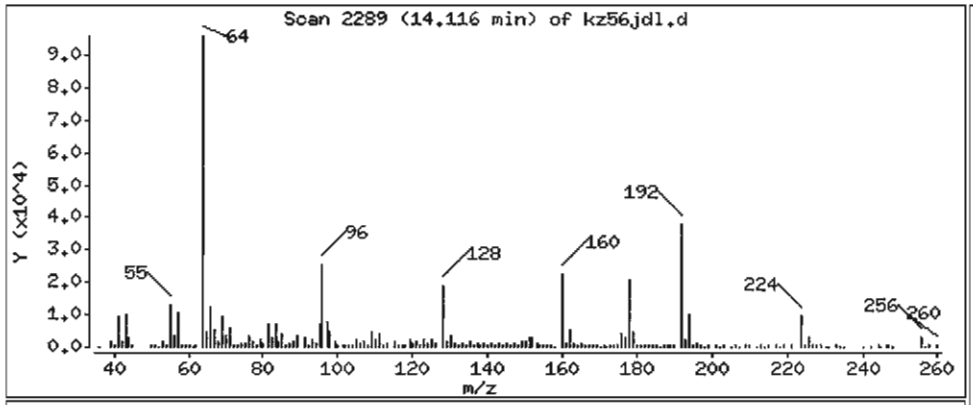
Operator: LJR/VTS

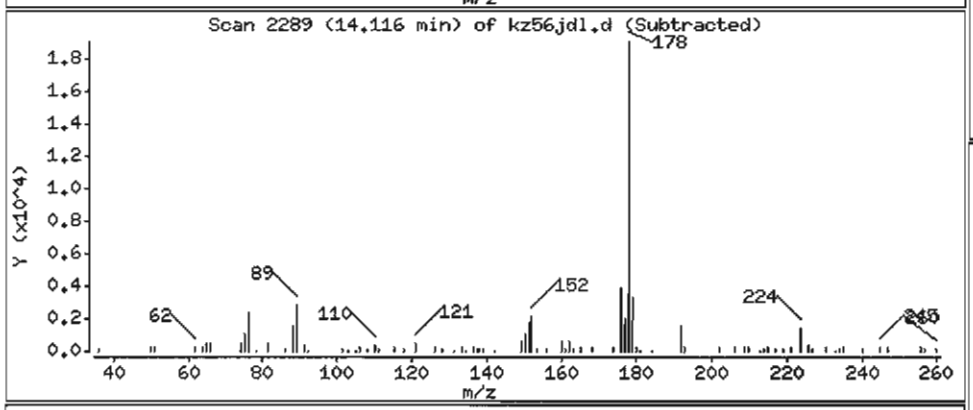
Column phase: ZB-5

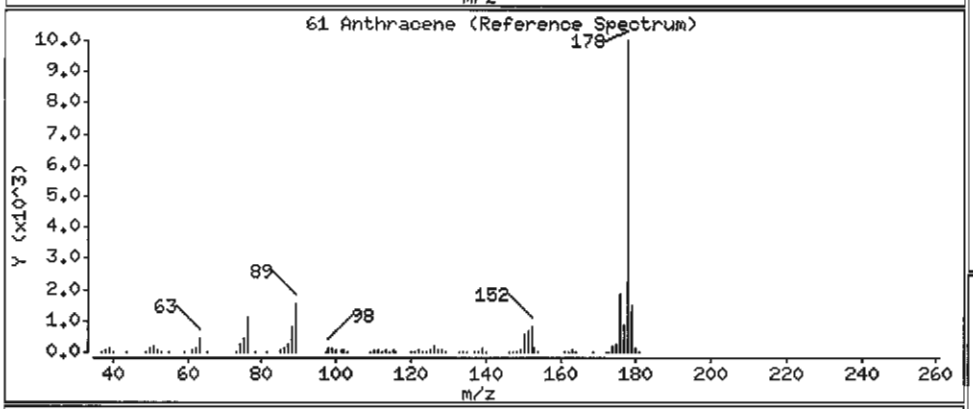
Column diameter: 0.32

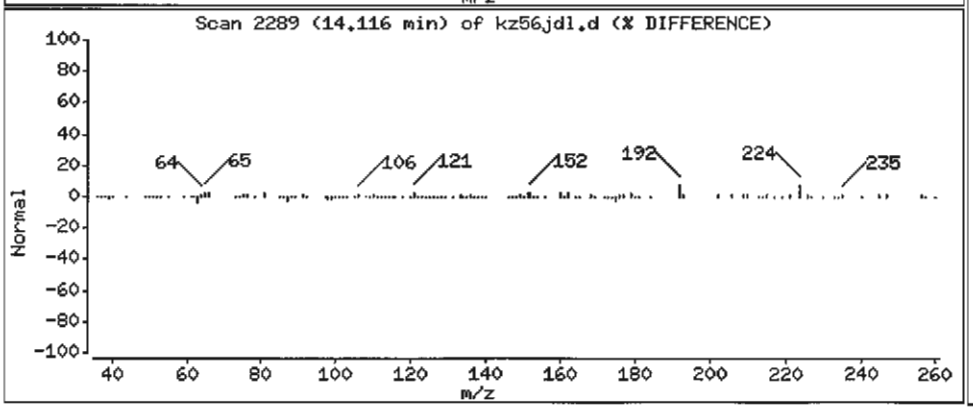
61 Anthracene

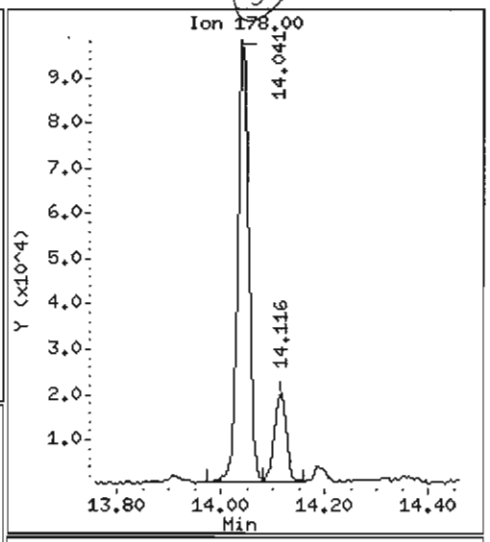
Concentration: 178.6 ug/kg

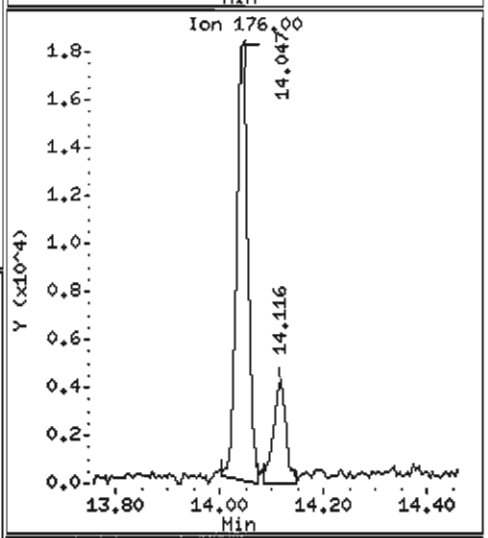


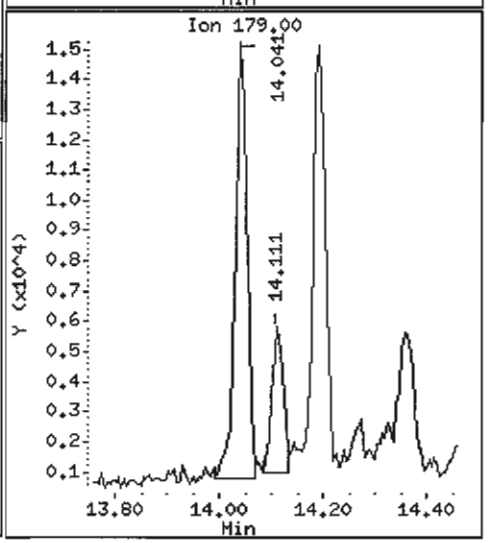












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

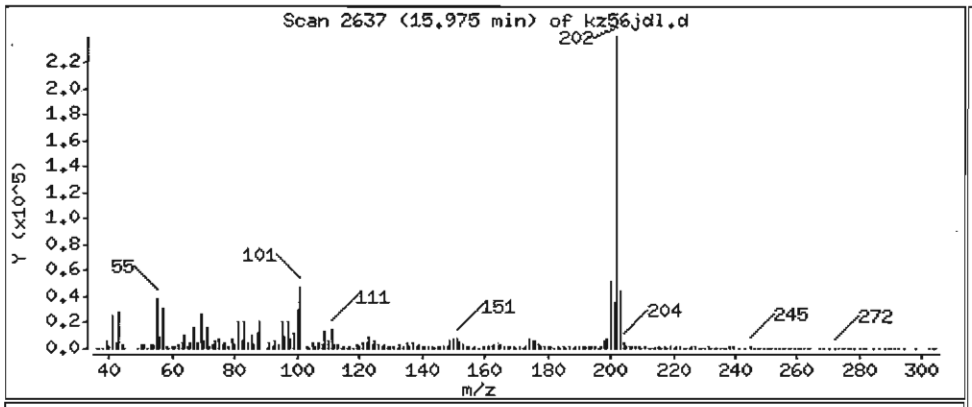
Operator: LJR/VTS

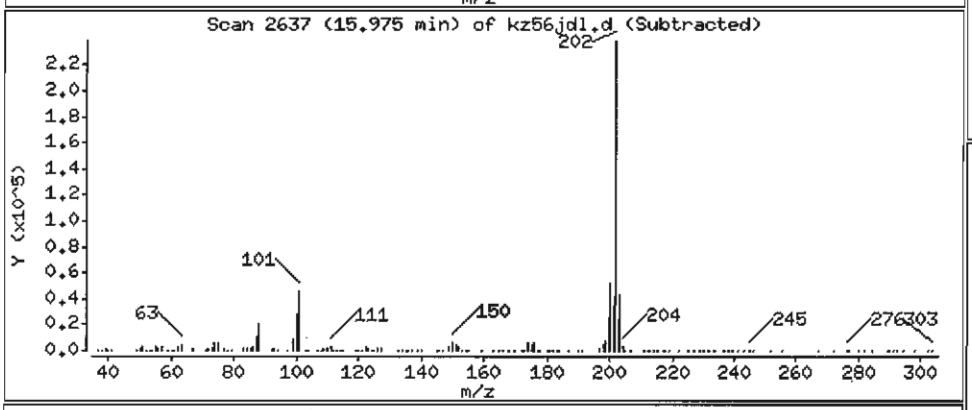
Column phase: ZB-5

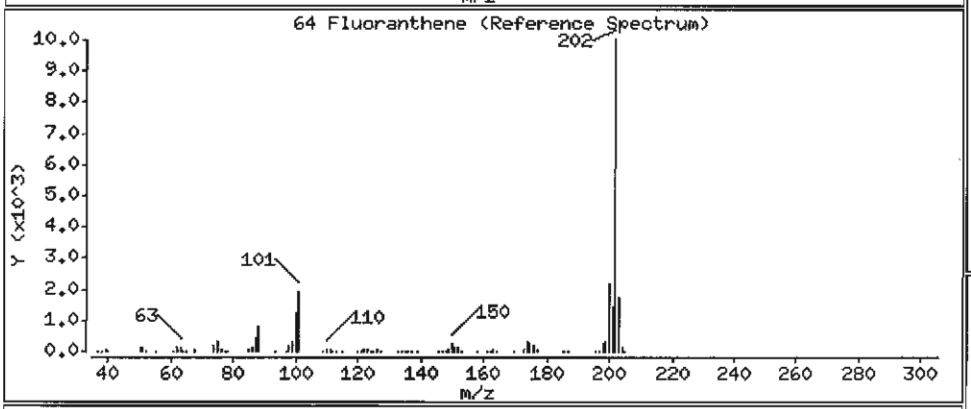
Column diameter: 0.32

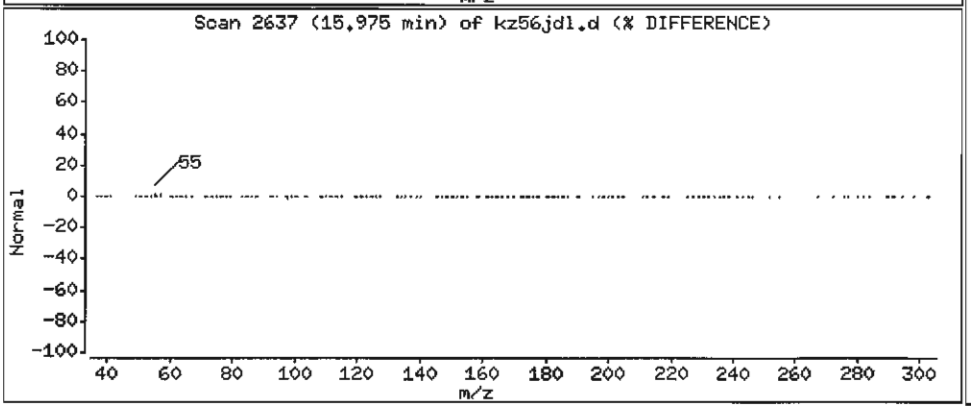
64 Fluoranthene

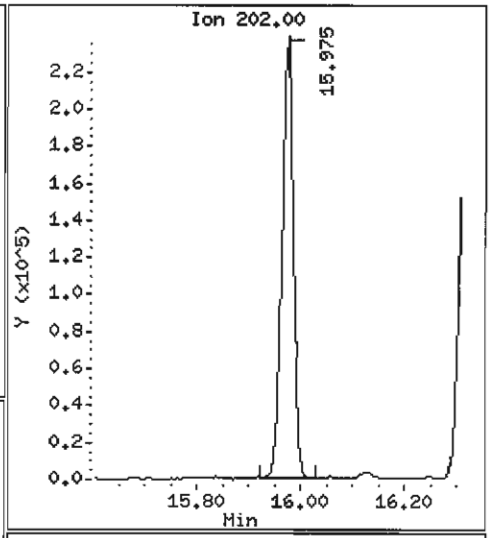
Concentration: 2265 ug/kg

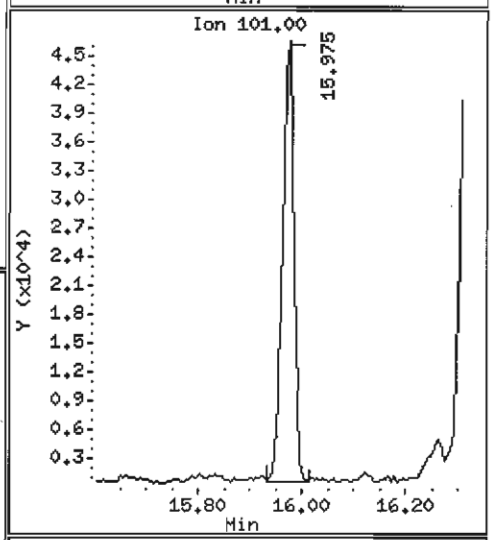


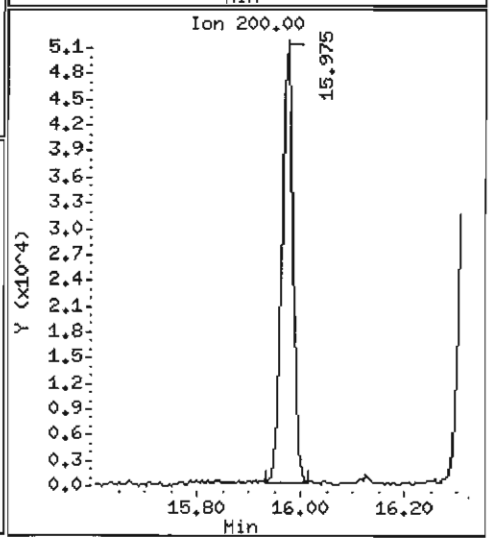












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

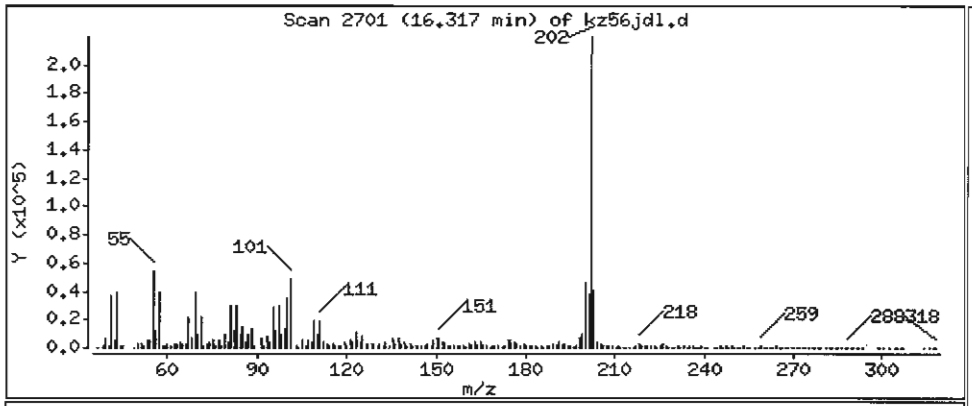
Operator: LJR/VTS

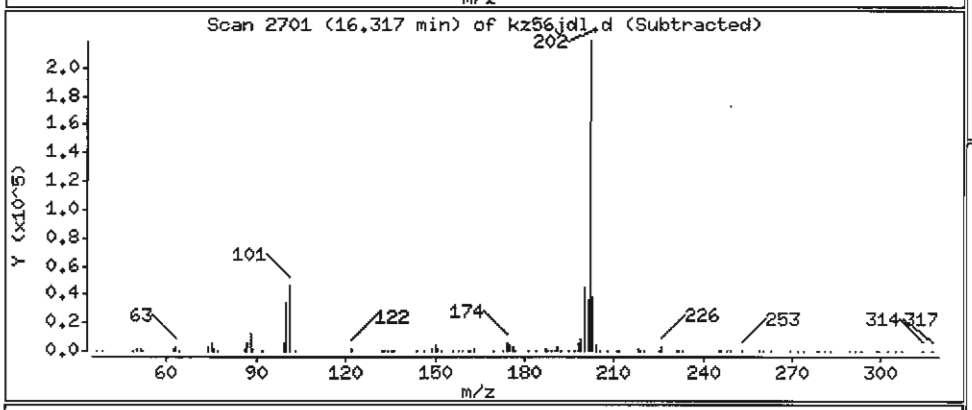
Column phase: ZB-5

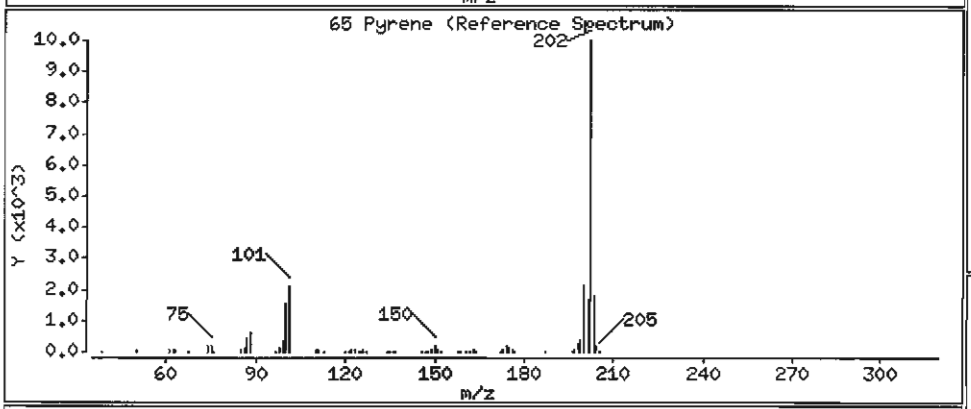
Column diameter: 0.32

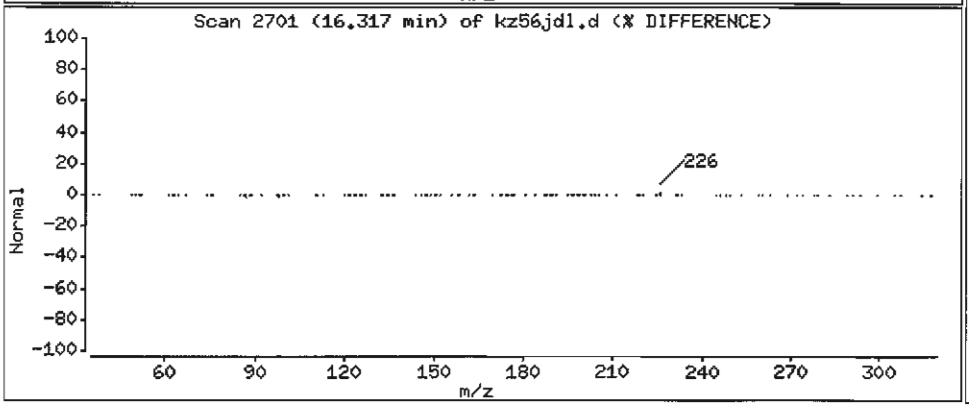
65 Pyrene

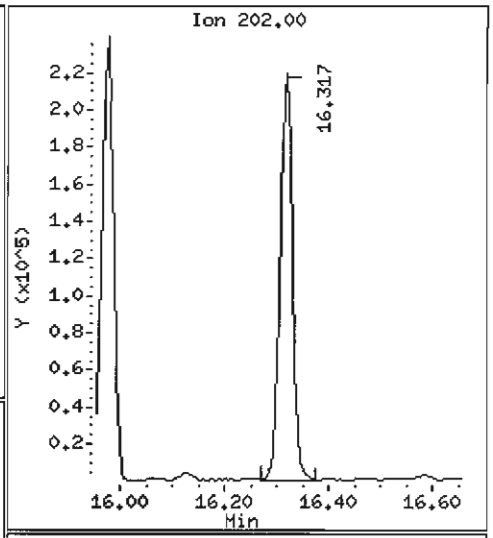
Concentration: 1991 ug/kg

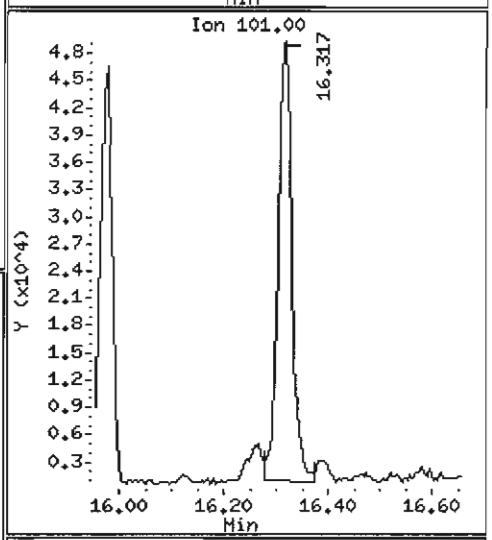


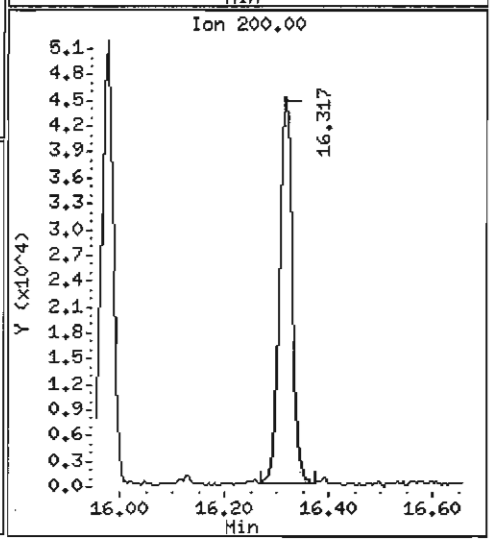












Data File: /chem1/nt6.i/20070529.b/kz56jd1.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

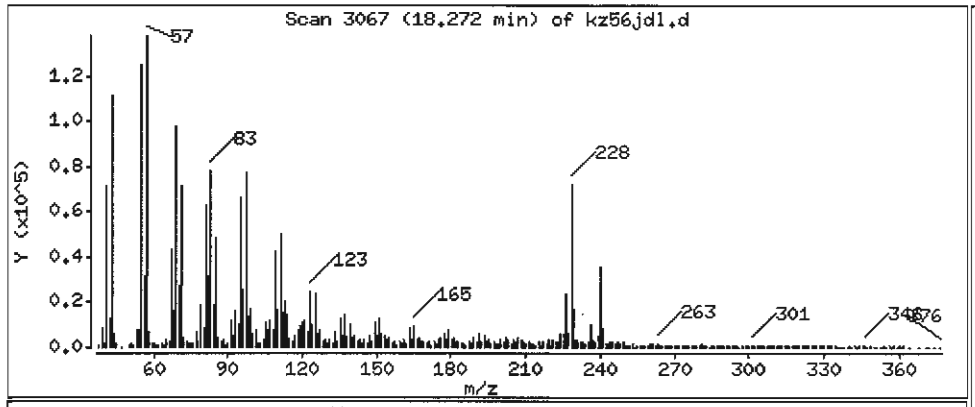
Operator: LJR/VTS

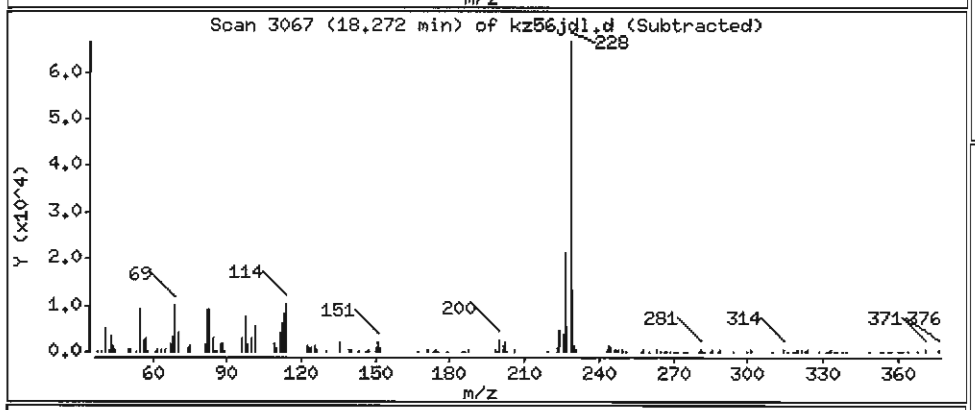
Column phase: ZB-5

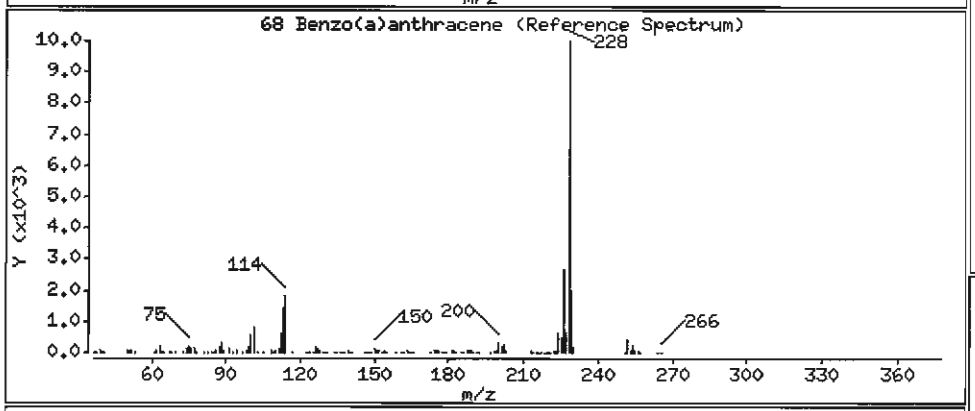
Column diameter: 0.32

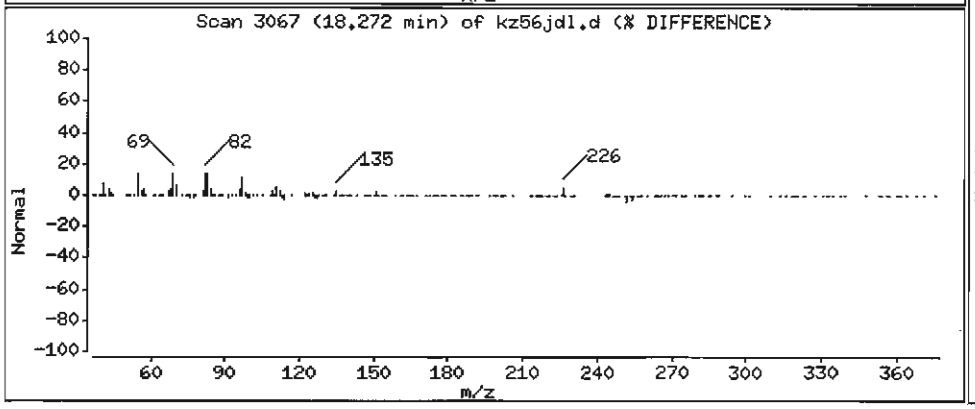
68 Benzo(a)anthracene

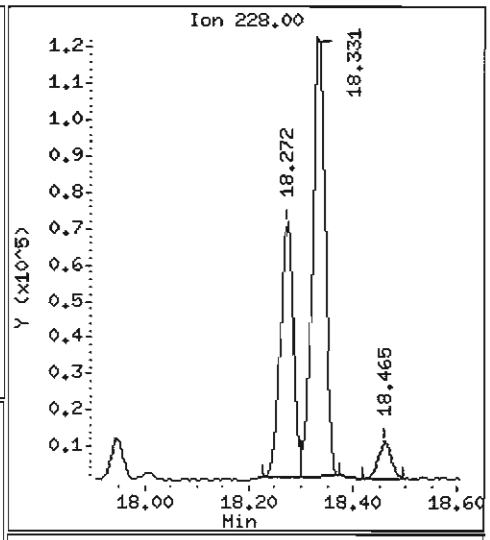
Concentration: 785.9 ug/kg

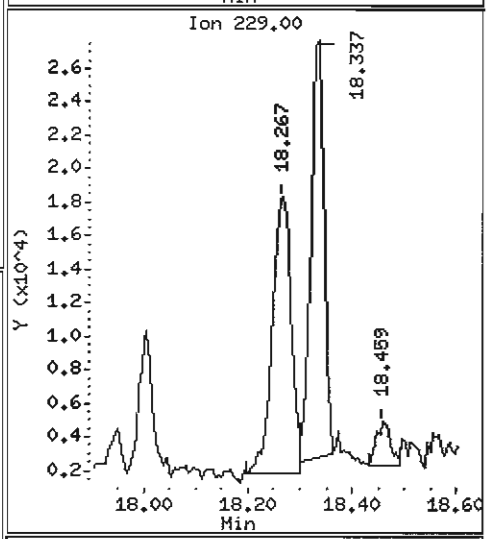


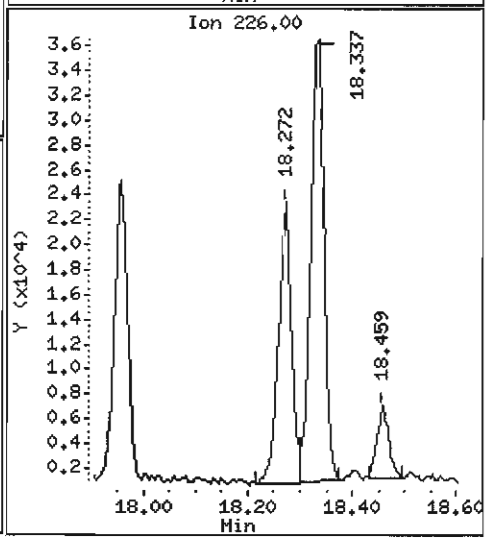












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

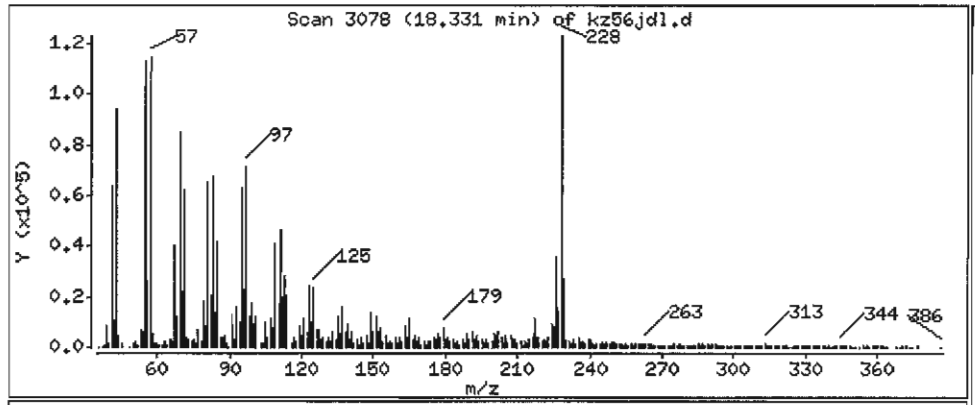
Operator: LJR/VTS

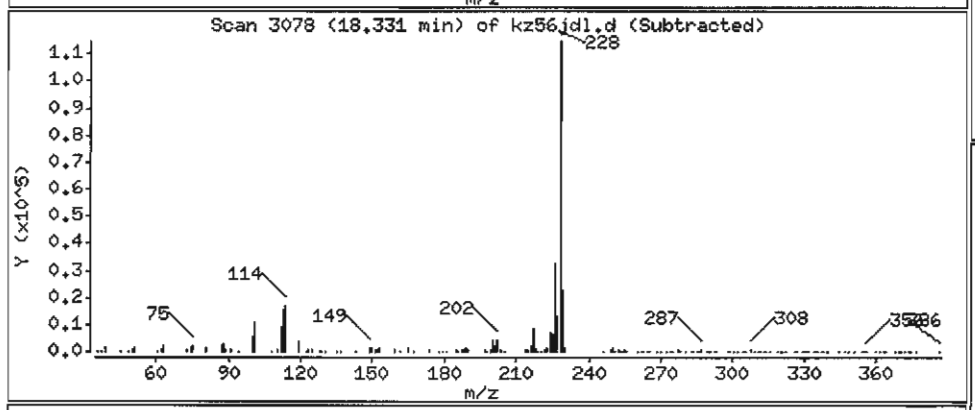
Column phase: ZB-5

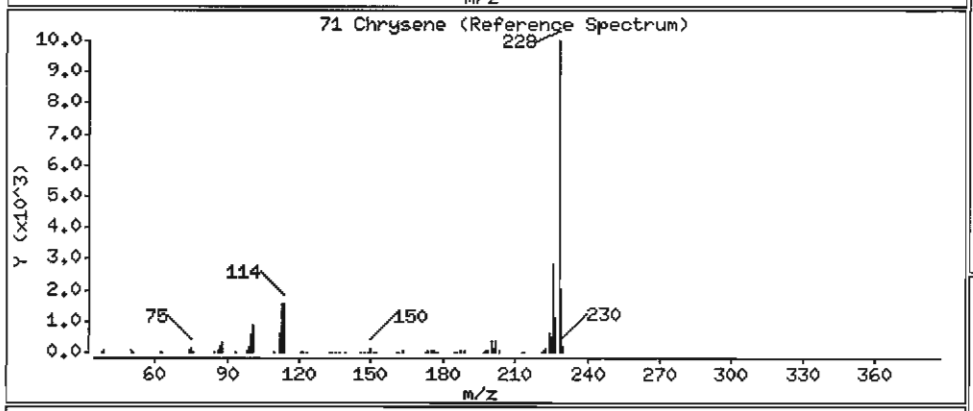
Column diameter: 0.32

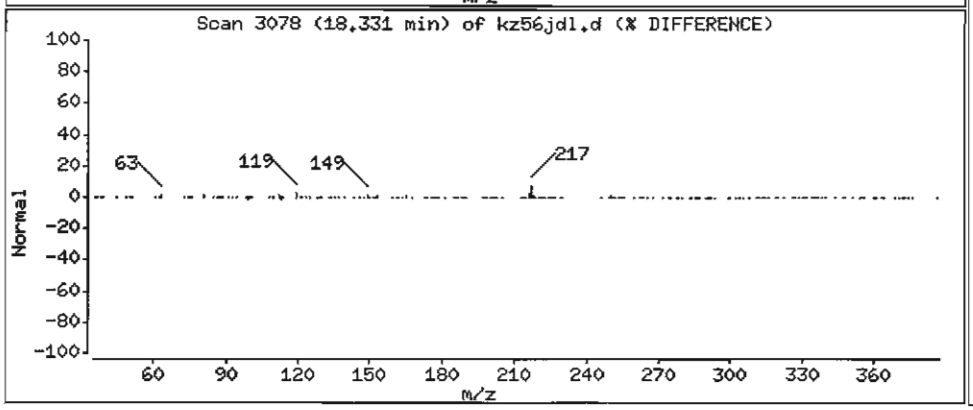
71 Chrysene

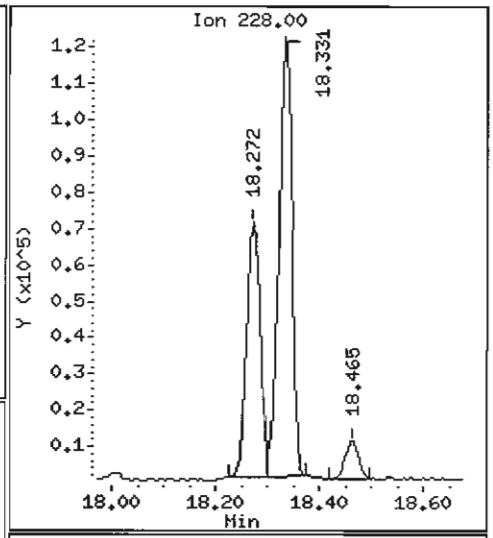
Concentration: 1278 ug/kg

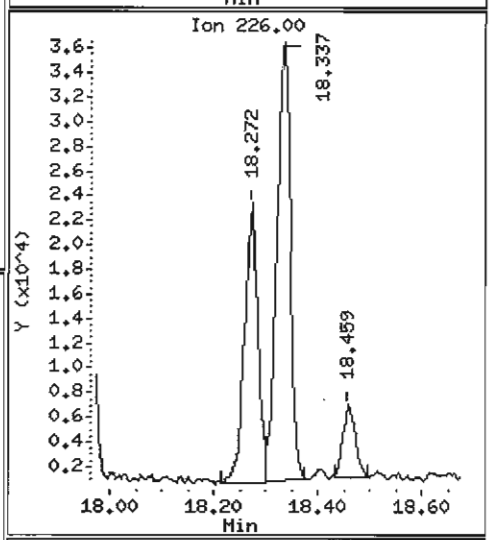


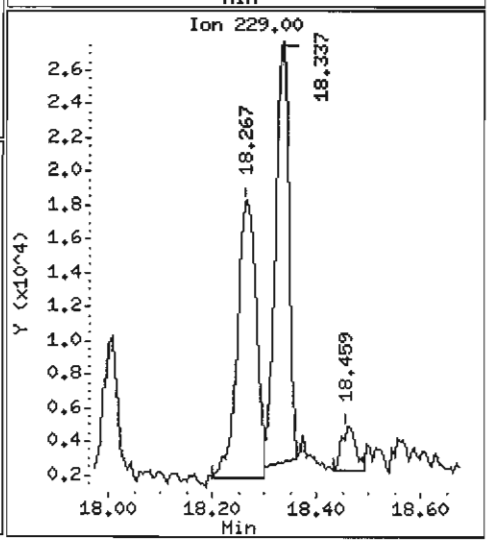












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

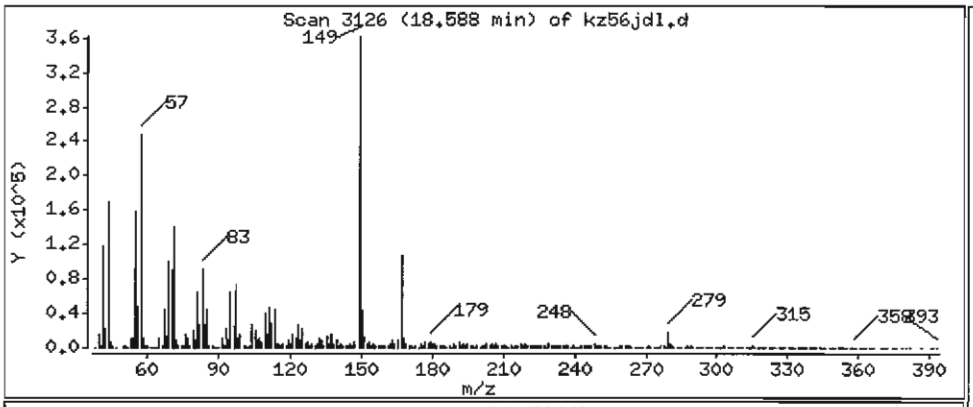
Operator: LJR/VTS

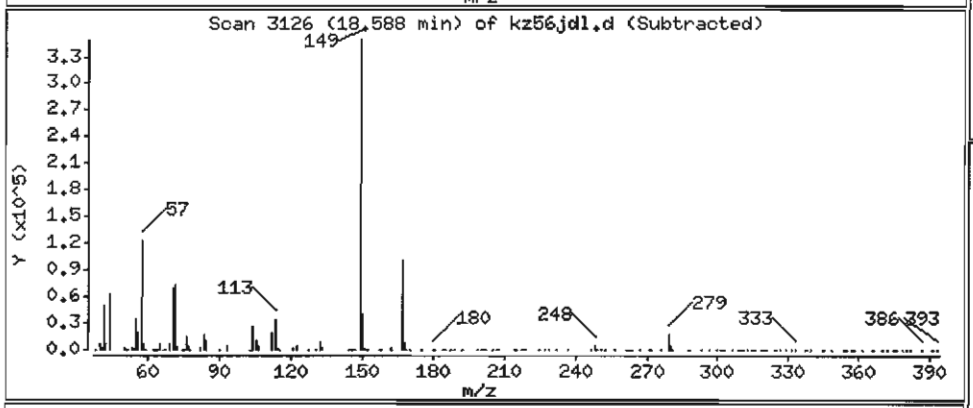
Column phase: ZB-5

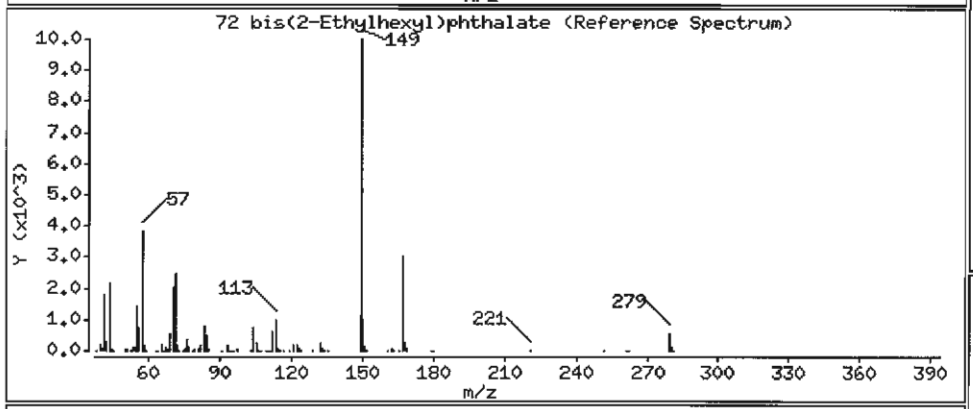
Column diameter: 0.32

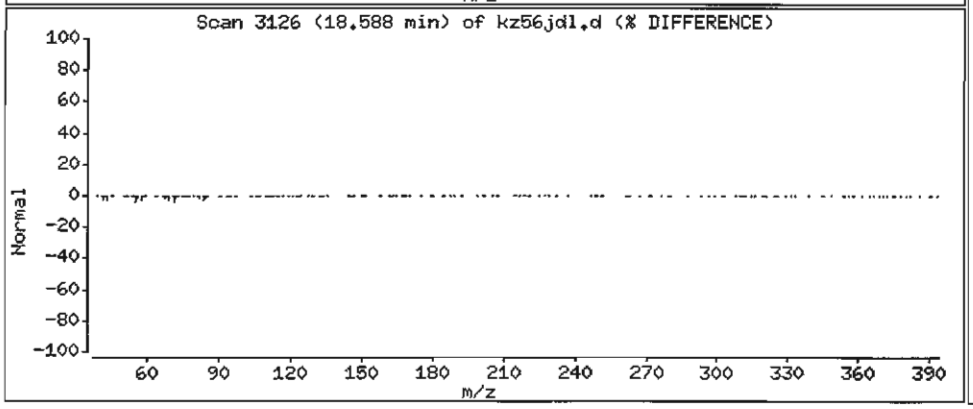
72 bis(2-Ethylhexyl)phthalate

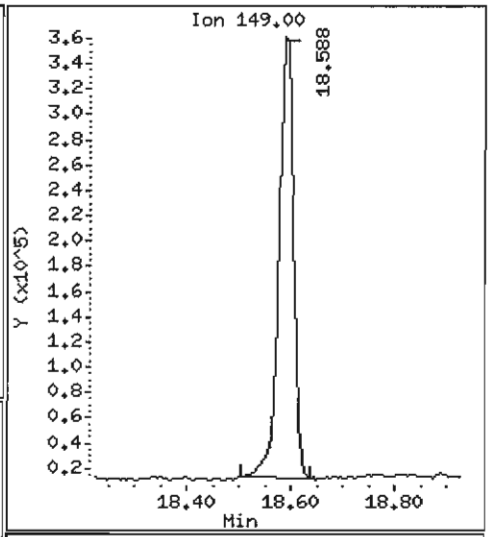
Concentration: 6160 ug/kg

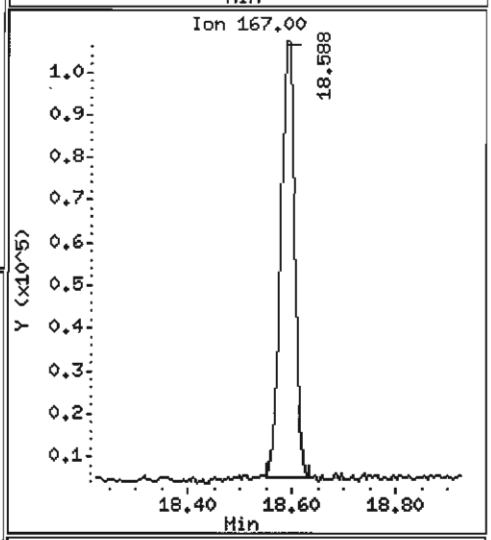


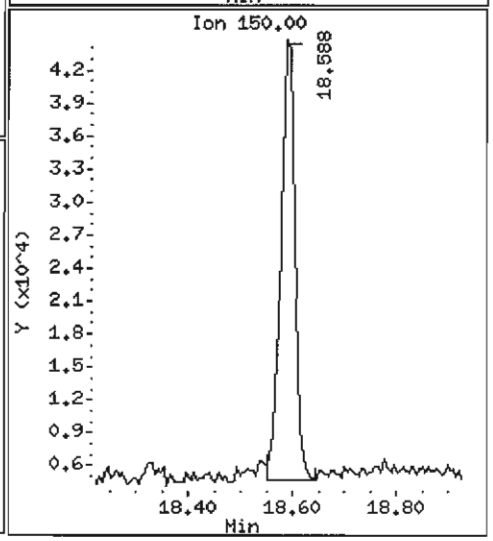












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

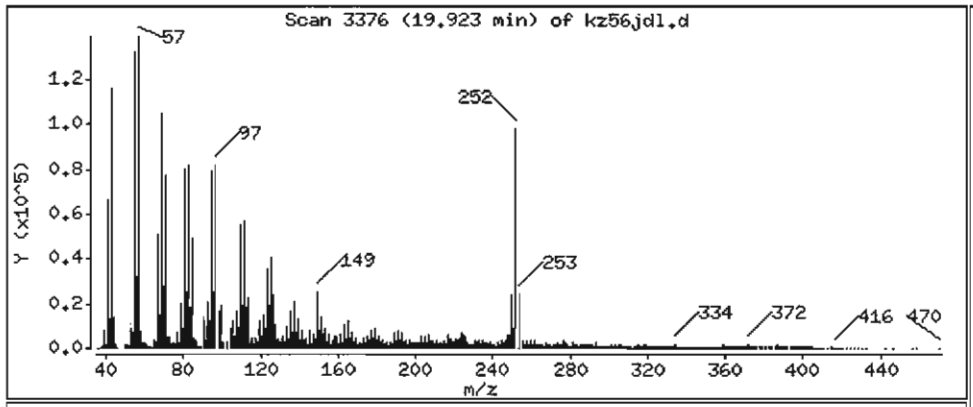
Operator: LJR/VTS

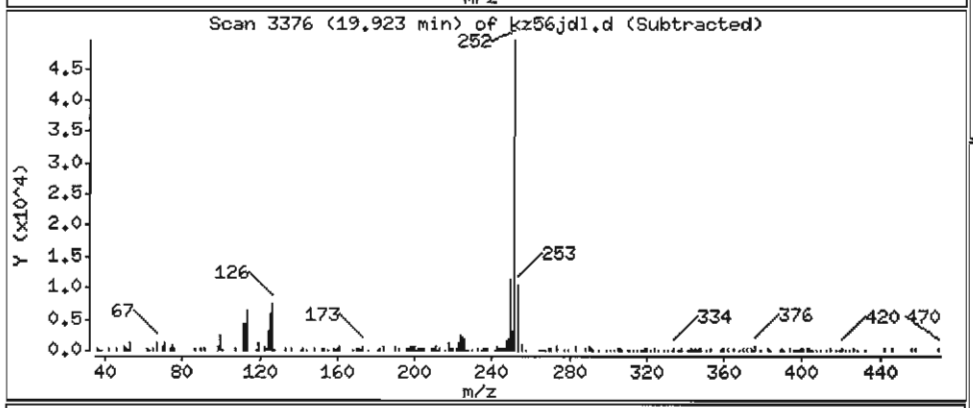
Column phase: ZB-5

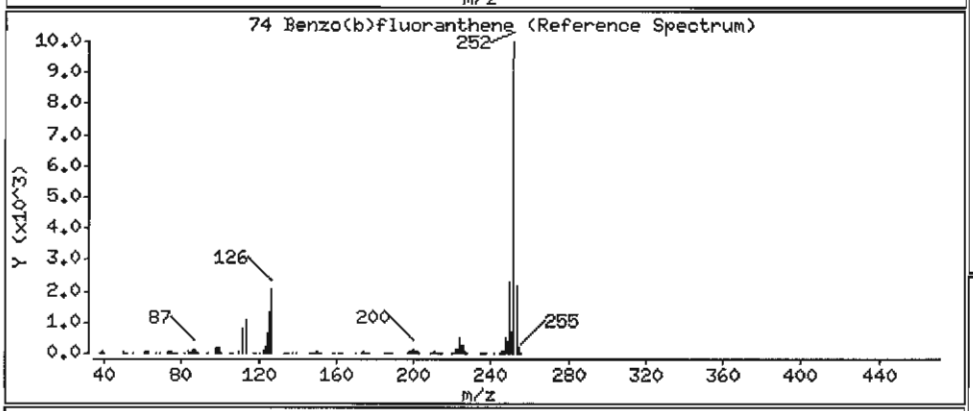
Column diameter: 0.32

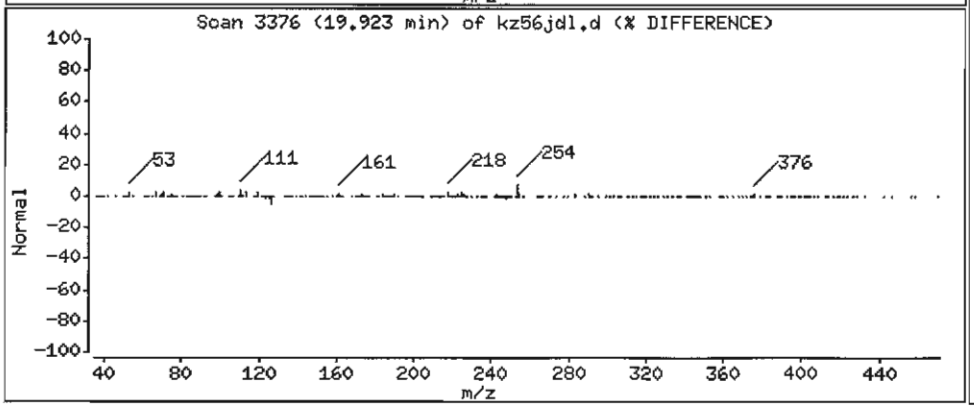
74 Benzo(b)fluoranthene

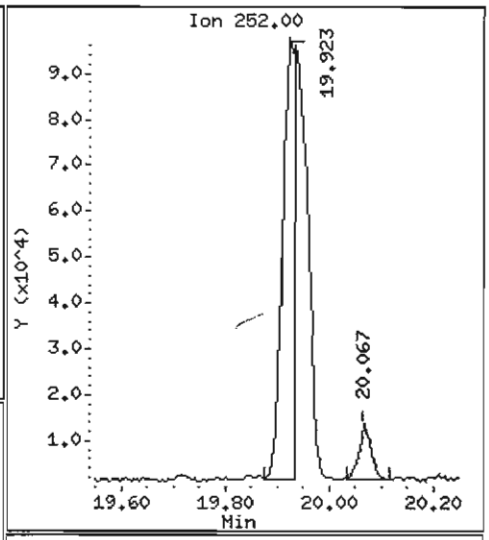
Concentration: 1455 ug/kg

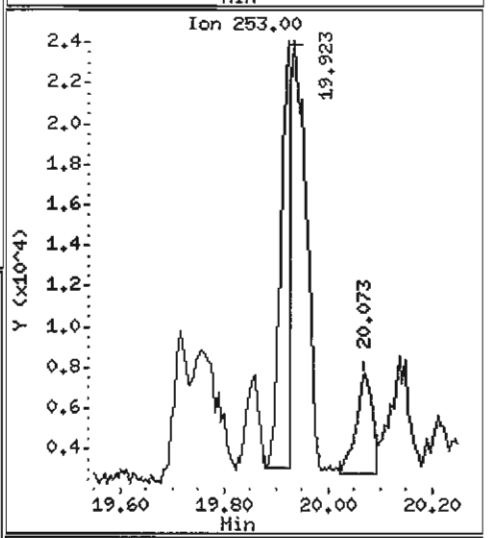


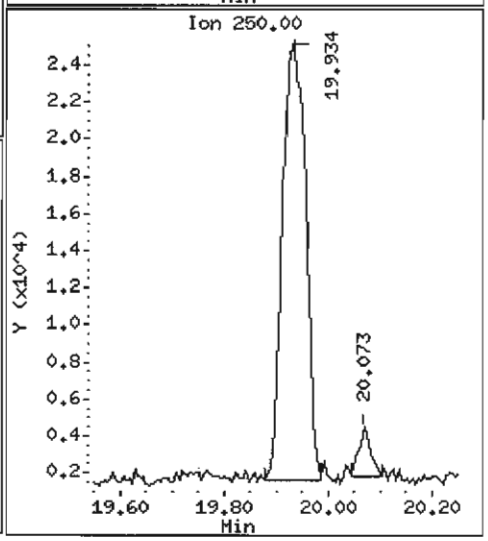












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

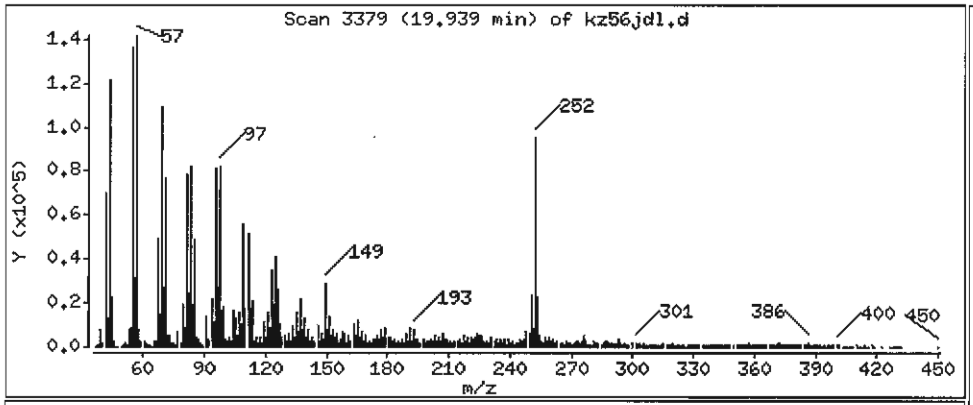
Operator: LJR/VTS

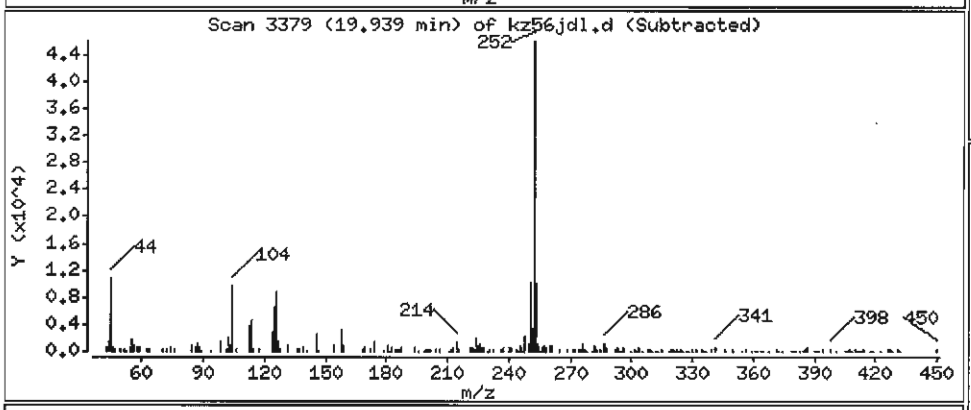
Column phase: ZB-5

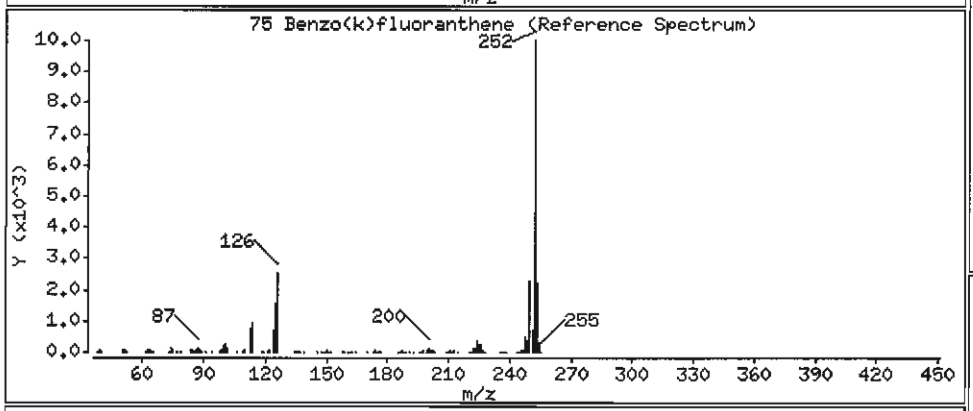
Column diameter: 0.32

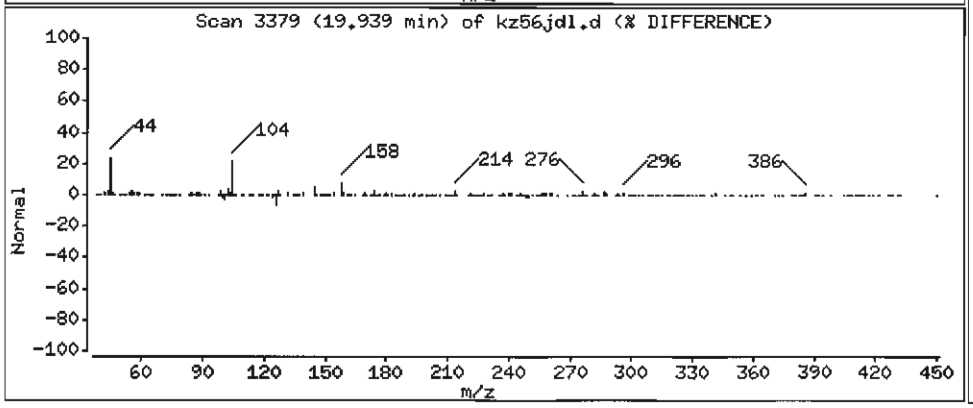
75 Benzo(k)fluoranthene

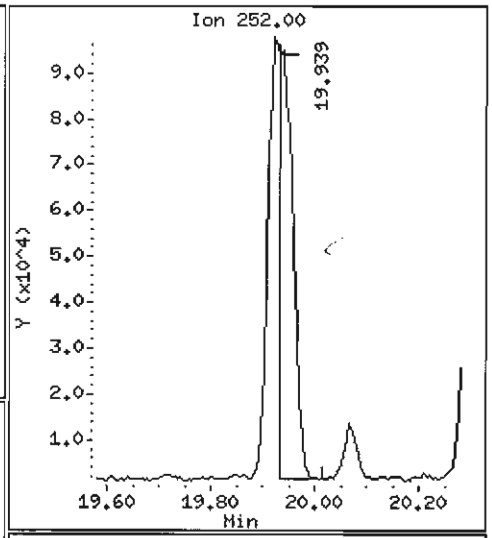
Concentration: 1534 ug/kg

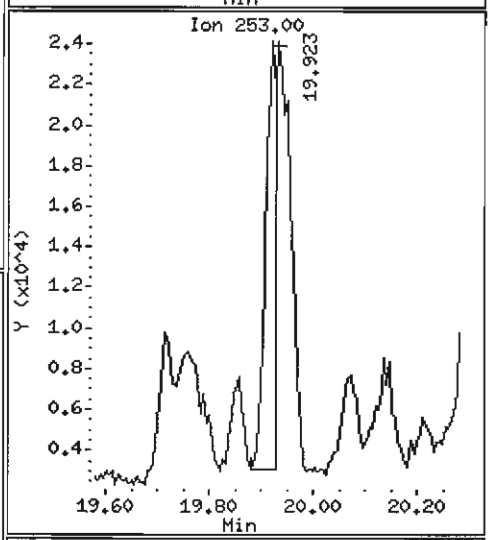


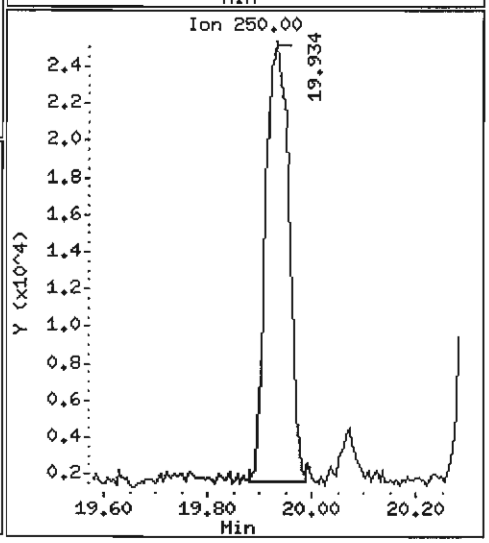












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

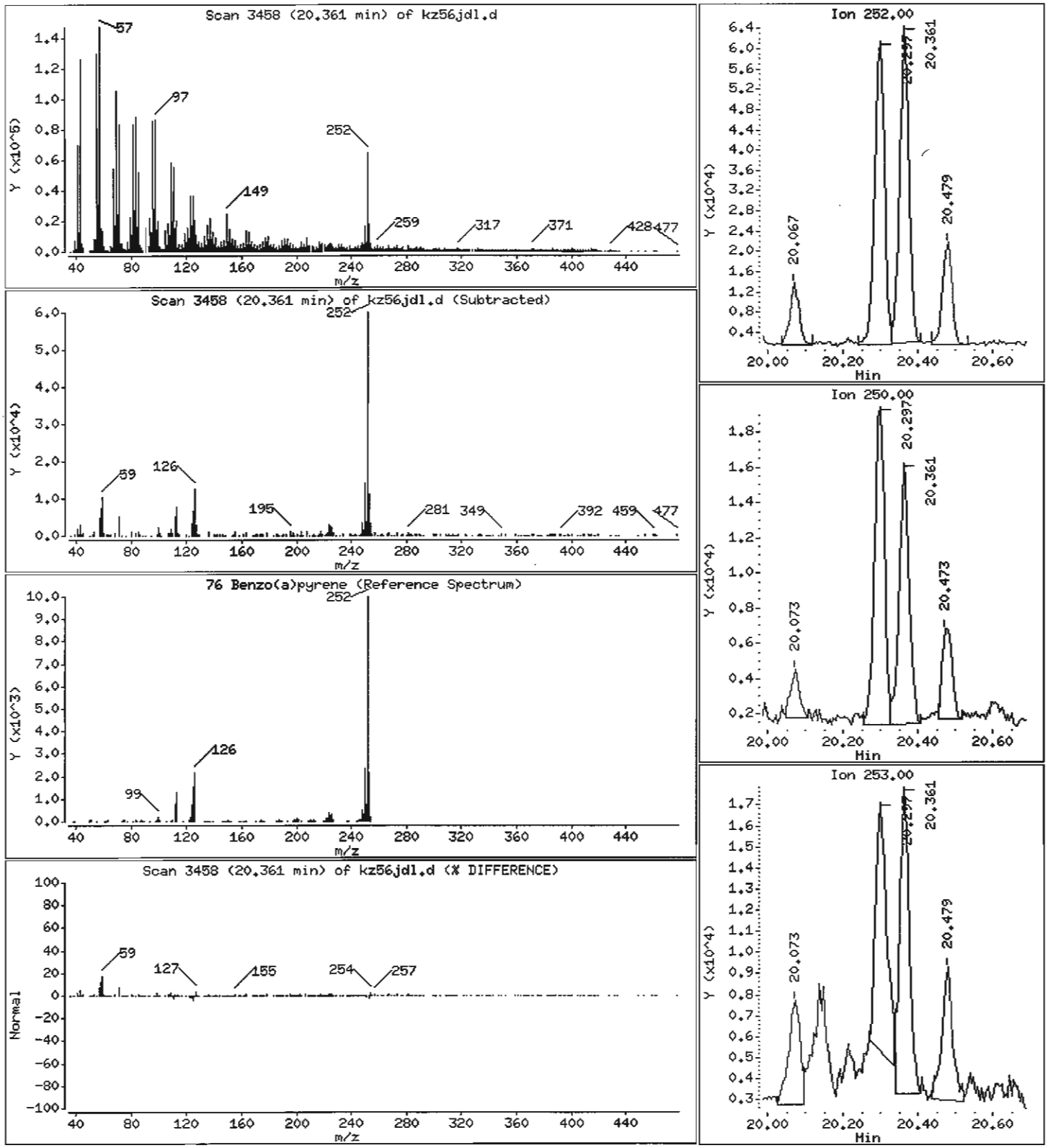
Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

76 Benzo(a)pyrene

Concentration: 950.4 ug/kg



Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

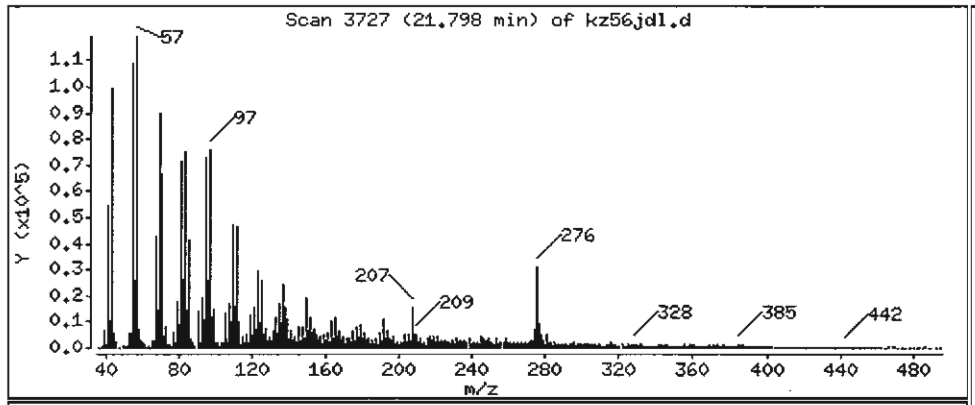
Operator: LJR/VTS

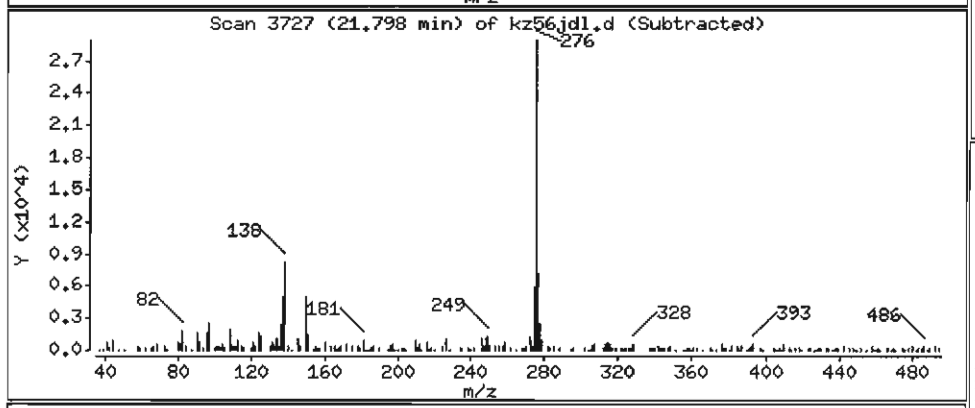
Column phase: ZB-5

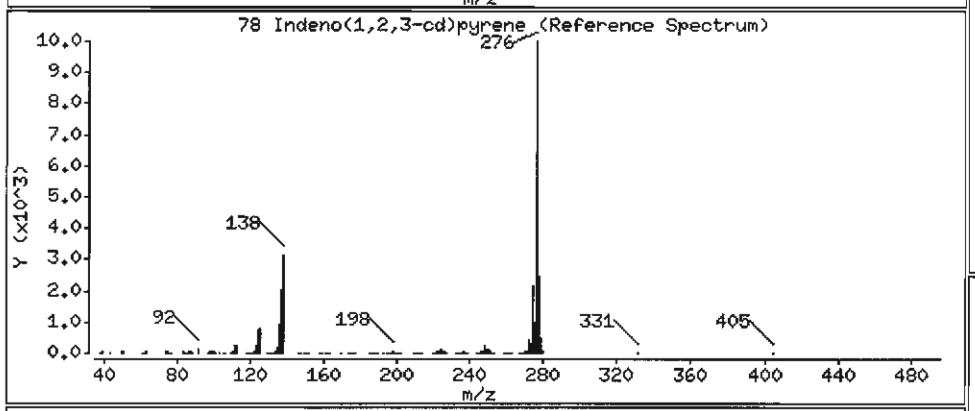
Column diameter: 0.32

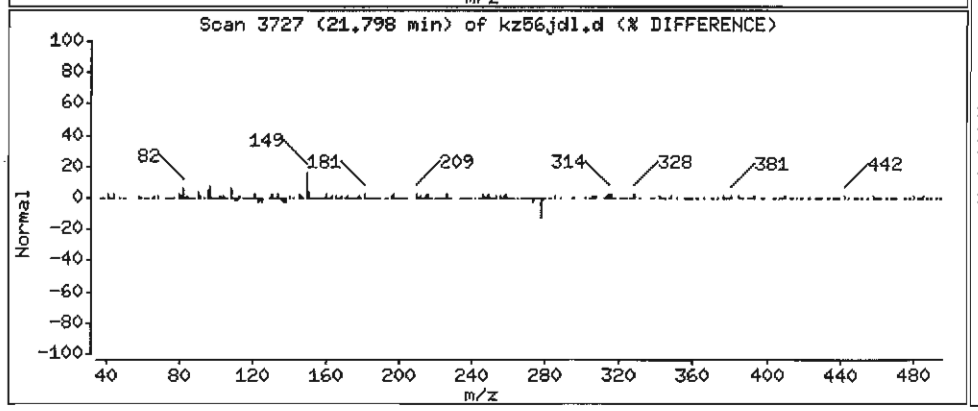
78 Indeno(1,2,3-cd)pyrene

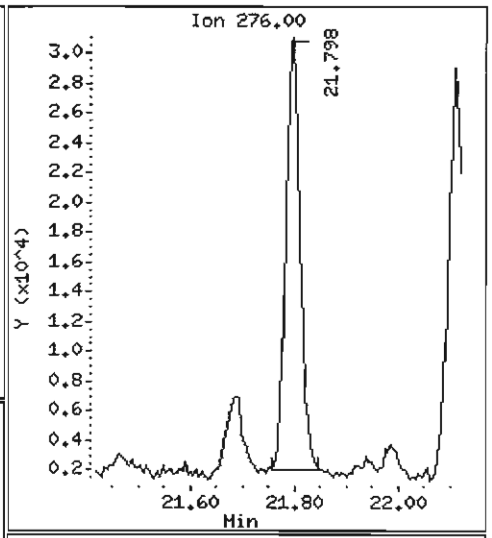
Concentration: 411.7 ug/kg

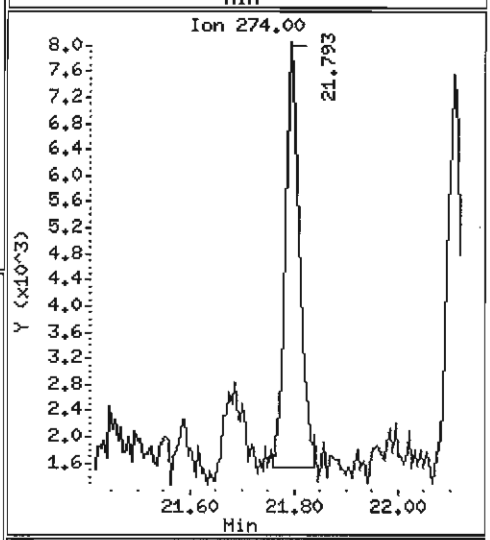


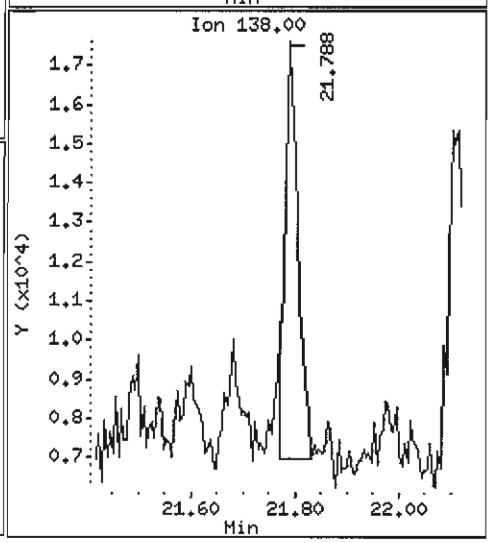












Data File: /chem1/nt6.i/20070529.b/kz56jdl.d

Date : 29-MAY-2007 16:32

Client ID: Y3-RC09-S

Instrument: nt6.i

Sample Info: KZ56J,5

Volume Injected (uL): 1.0

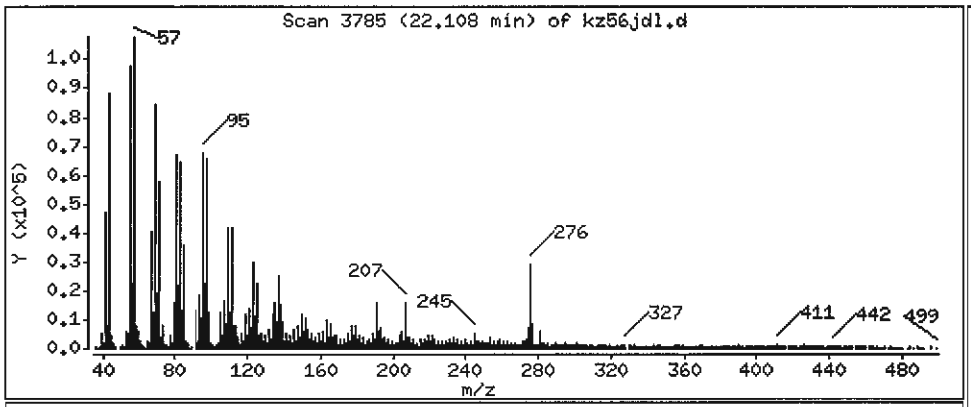
Operator: LJR/VTS

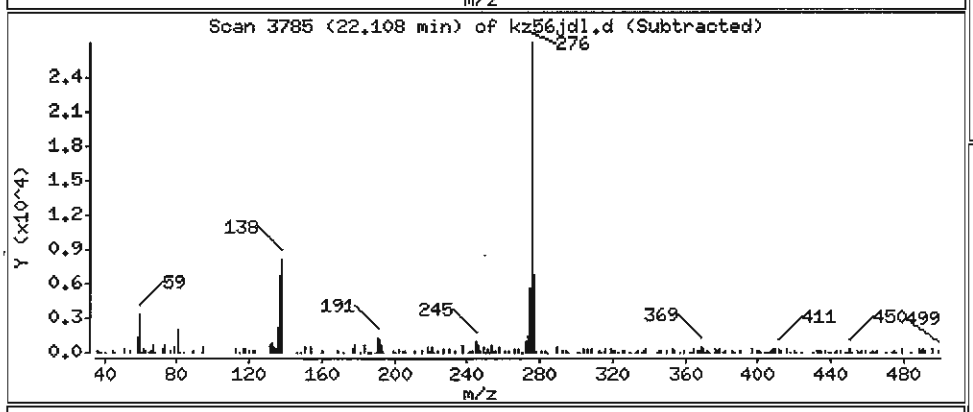
Column phase: ZB-5

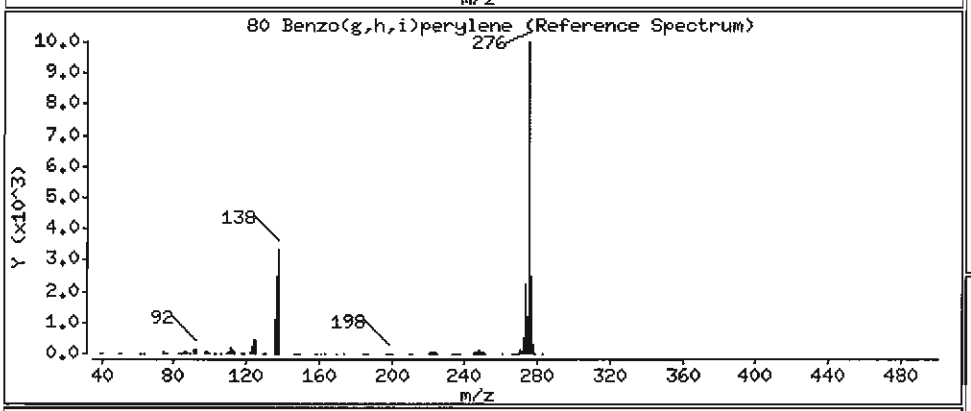
Column diameter: 0.32

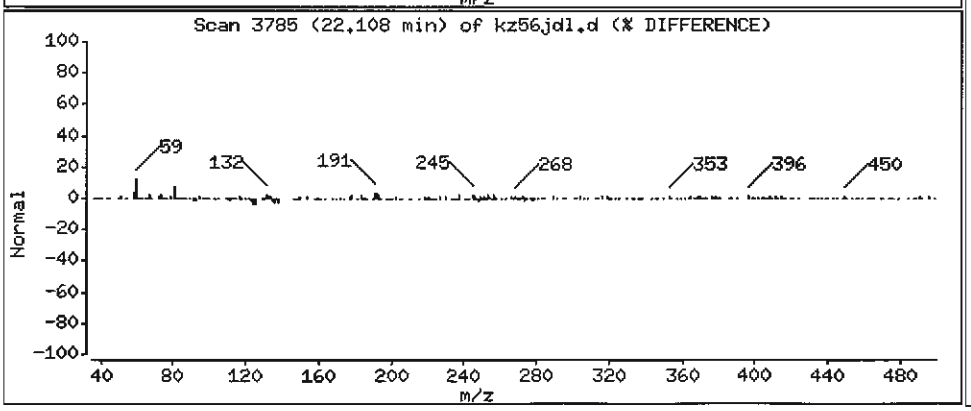
80 Benzo(g,h,i)perylene

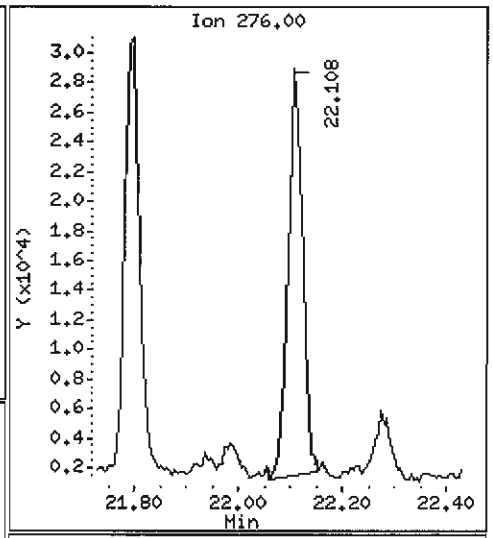
Concentration: 428.9 ug/kg

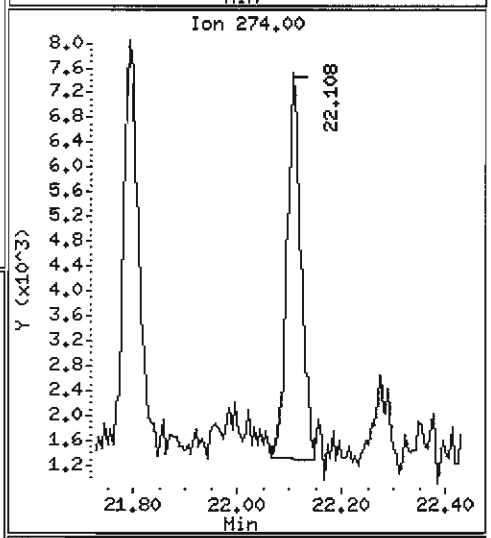


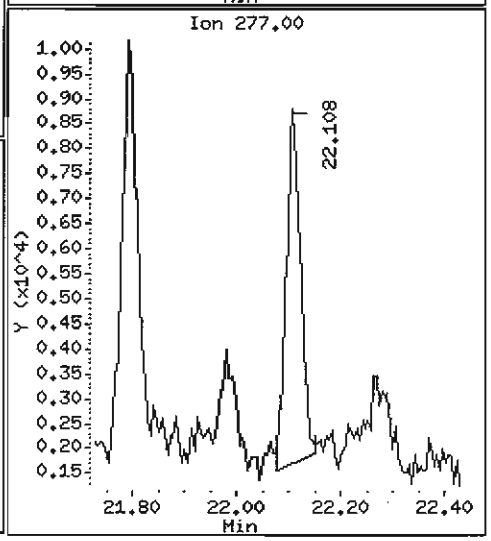












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC02-S
SAMPLE

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 13:12
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 17.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 60.5%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	170	150 J
91-57-6	2-Methylnaphthalene	170	< 170 U
208-96-8	Acenaphthylene	170	< 170 U
83-32-9	Acenaphthene	170	110 J
132-64-9	Dibenzofuran	170	110 J
86-73-7	Fluorene	170	160 J
85-01-8	Phenanthrene	170	2,500
120-12-7	Anthracene	170	430
206-44-0	Fluoranthene	170	5,000
129-00-0	Pyrene	170	4,700
56-55-3	Benzo(a)anthracene	170	2,000
117-81-7	bis(2-Ethylhexyl)phthalate	170	9,500 E
218-01-9	Chrysene	170	3,100
205-99-2	Benzo(b)fluoranthene	170	3,300
207-08-9	Benzo(k)fluoranthene	170	3,600
50-32-8	Benzo(a)pyrene	170	2,300
193-39-5	Indeno(1,2,3-cd)pyrene	170	870
53-70-3	Dibenz(a,h)anthracene	170	390
191-24-2	Benzo(g,h,i)perylene	170	900

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.6%	2-Fluorobiphenyl	63.7%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	61.1%
d5-Phenol	64.2%	2-Fluorophenol	51.1%
2,4,6-Tribromophenol	68.7%	d4-2-Chlorophenol	64.2%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56k.d
Lab Smp Id: KZ56K
Client Smp ID: Y3-RC02-S
Inj Date : 29-MAY-2007 13:12
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56K,3
Misc Info : 07-9557
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 7
Dil Factor: 3.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	44.00000	Weight of sample extracted (g)
M	60.50000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.925	4.903	(0.724)	123631	6.39013	1103
$ 2 Phenol-d5	99	6.459	6.447	(0.949)	181993	8.01707	1384
3 Phenol	94	6.475	6.468	(0.951)	19985	0.80194 LAL	138.4
$ 5 2-Chlorophenol-d4	132	6.528	6.521	(0.959)	125942	8.02366	1385
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.806	6.805	(1.000)	212801	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.100	7.093	(1.043)	48848	5.08926	878.5
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.725	7.729	(0.875)	101702	5.63088	972.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.825	8.819	(1.000)	759046	20.0000	
	28 Naphthalene	128	8.852	8.851	(1.003)	39480	0.87811 LDL	151.6
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.620	10.619	(0.911)	138998	5.31112	916.8
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	11.234	10.982	(0.964)	5653	0.59975 LDL	103.5
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.656	11.655	(1.000)	387774	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.705	11.703	(1.004)	16214	0.66261 LDL	114.4(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	11.966	11.965	(1.027)	20542	0.62275 LDL	107.5
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.522	12.515	(1.074)	23959	0.92173 LDL	159.1
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.944	12.937	(1.110)	33921	8.59226	1483
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.857	13.840	(0.989)	4994	1.19102 LDL	205.6
*	59 Phenanthrene-d10	188	14.012	14.001	(1.000)	541157	20.0000	
	60 Phenanthrene	178	14.044	14.038	(1.002)	526199	14.5701	2515
	61 Anthracene	178	14.119	14.107	(1.008)	92249	2.47210	426.7
	62 Carbazole	167	14.424	14.412	(1.029)	113999	3.55021	612.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.182	15.165	(1.083)	25976	0.65594	113.2(M)
64 Fluoranthene	202	16.026	15.956	(1.144)	995854	29.0632	5017
65 Pyrene	202	16.336	16.303	(0.892)	1003557	27.1404	4685
$ 66 Terphenyl-d14	244	16.673	16.650	(0.910)	132830	5.67267	979.2
67 Butylbenzylphthalate	149	17.576	17.558	(0.960)	40179	2.31105	398.9(M)
68 Benzo(a)anthracene	228	18.291	18.253	(0.999)	388943	11.6840	2017
* 69 Chrysene-d12	240	18.313	18.280	(1.000)	445636	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.350	18.322	(1.002)	606219	18.0023	3107
72 bis(2-Ethylhexyl)phthalate	149	18.607	18.573	(0.952)	1293203	55.1737 E	9524
* 134 Di-n-octylphthalate-d4	153	19.541	19.503	(1.000)	684317	20.0000	
73 Di-n-octylphthalate	149	19.557	19.514	(1.001)	80799	1.98752	343.1(M)
74 Benzo(b)fluoranthene	252	19.958	19.898	(0.975)	446785	19.2029	3315(M)
75 Benzo(k)fluoranthene	252	19.958	19.930	(0.975)	460243	20.5918	3554(M)
76 Benzo(a)pyrene	252	20.385	20.336	(0.996)	307762	13.2135	2281
* 77 Perylene-d12	264	20.466	20.416	(1.000)	358842	20.0000	(M)
78 Indeno(1,2,3-cd)pyrene	276	21.823	21.768	(1.066)	138917	5.04553	870.9
79 Dibenzo(a,h)anthracene	278	21.839	21.789	(1.067)	51543	2.26030	390.2(M)
80 Benzo(g,h,i)perylene	276	22.138	22.078	(1.082)	131795	5.22538	902.0
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.368	6.377	(0.936)	56384	1.77152 Y	305.8(M)
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56k.d
Lab Smp Id: KZ56K
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9557

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC02-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	212801	-2.24
27 Naphthalene-d8	775413	387706	1550826	759046	-2.11
42 Acenaphthene-d10	371068	185534	742136	387774	4.50
59 Phenanthrene-d10	554165	277082	1108330	541157	-2.35
69 Chrysene-d12	436021	218010	872042	445636	2.21
134 Di-n-octylphthala	773344	386672	1546688	684317	-11.51
77 Perylene-d12	622369	311184	1244738	358842	-42.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.02
27 Naphthalene-d8	8.82	8.32	9.32	8.83	0.07
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.01
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.08
69 Chrysene-d12	18.28	17.78	18.78	18.31	0.18
134 Di-n-octylphthala	19.50	19.00	20.00	19.54	0.20
77 Perylene-d12	20.42	19.92	20.92	20.47	0.24

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

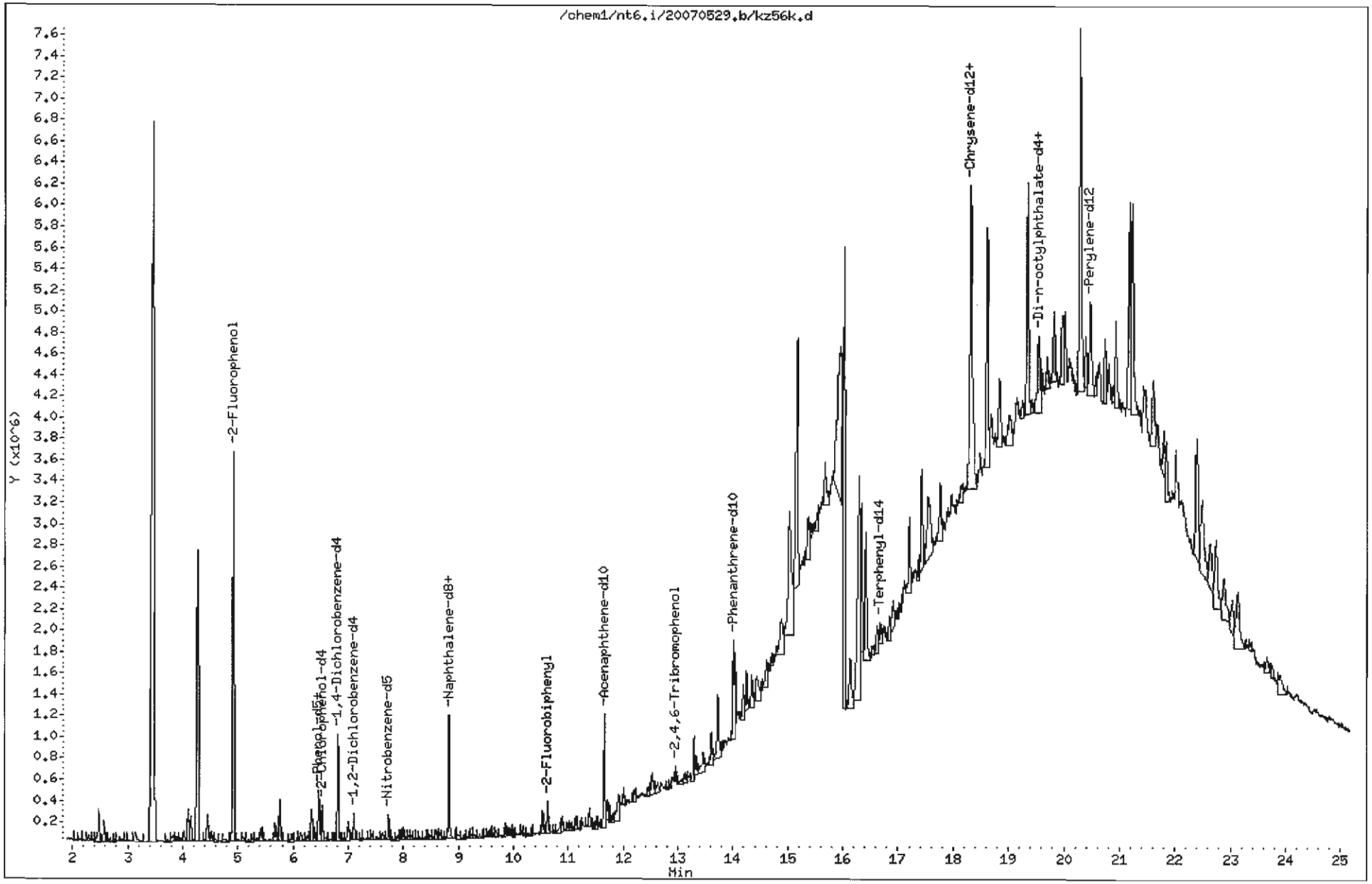
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56K
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9557

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC02-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	2158	1103	51.12	11-84
$ 2 Phenol-d5	2158	1384	64.14	25-86
$ 5 2-Chlorophenol-d4	2158	1385	64.19	23-91
$ 10 1,2-Dichlorobenzen	1438	878.5	61.07	24-90
$ 18 Nitrobenzene-d5	1438	972.0	67.57	26-88
$ 36 2-Fluorobiphenyl	1438	916.8	63.73	34-91
$ 55 2,4,6-Tribromophen	2158	1483	68.74	25-107
$ 66 Terphenyl-d14	1438	979.2	68.07	22-100

Data File: /chem1/nt6.i/20070529.b/kz56k.d
Date : 29-MAY-2007 13:12
Client ID: Y3-RC02-S
Sample Info: KZ56K,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0533

Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

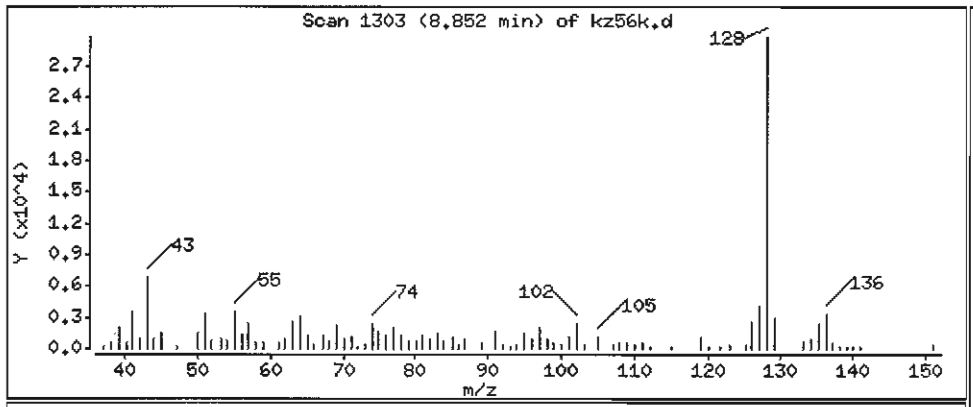
Operator: LJR/VTS

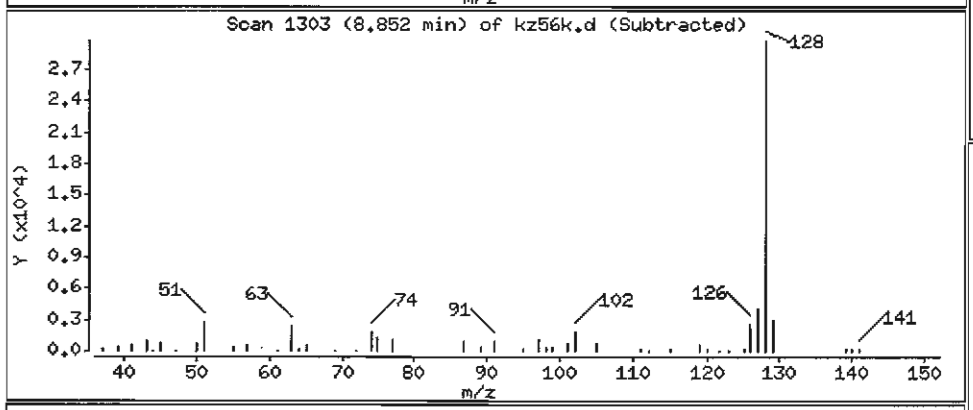
Column phase: ZB-5

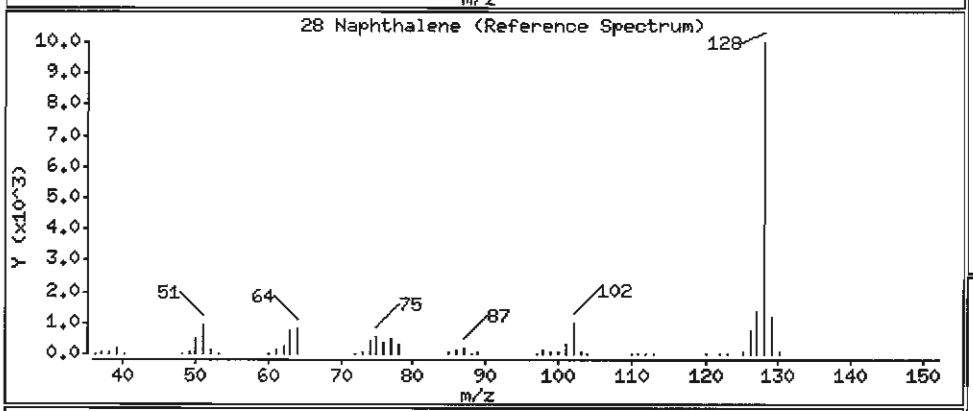
Column diameter: 0.32

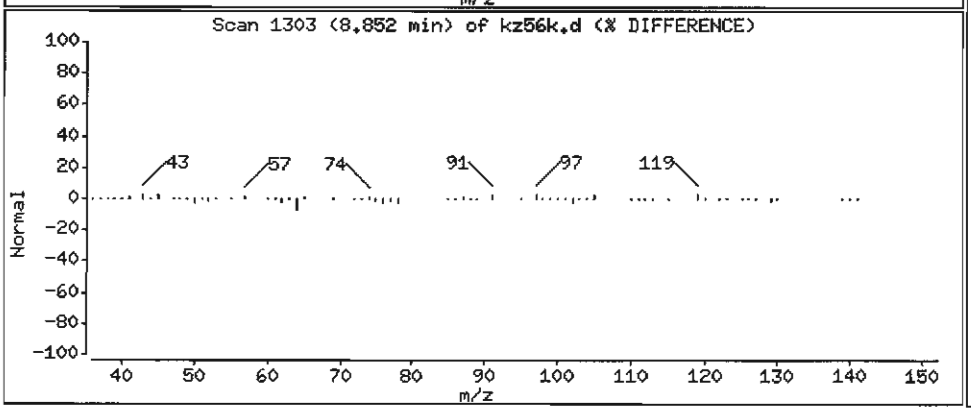
28 Naphthalene

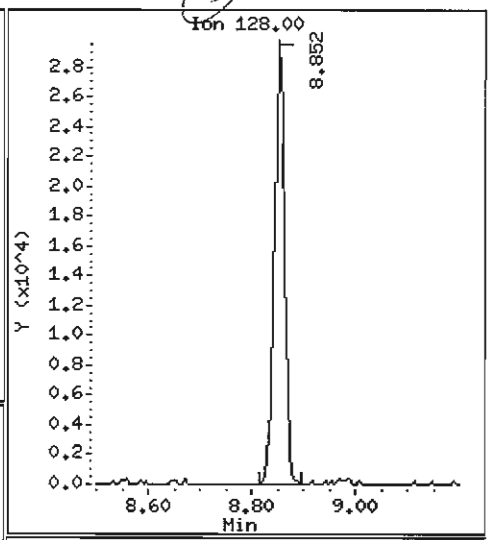
Concentration: 151.6 ug/kg

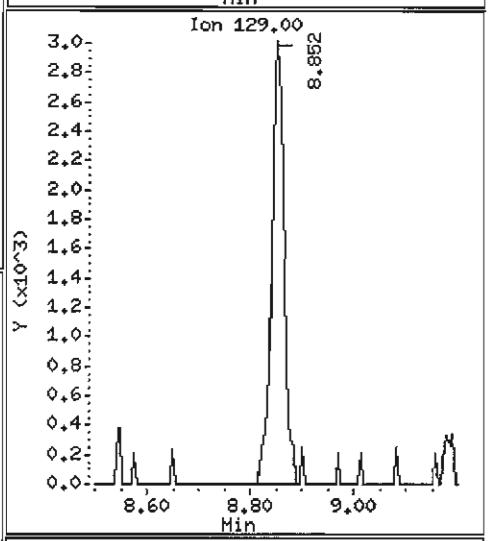


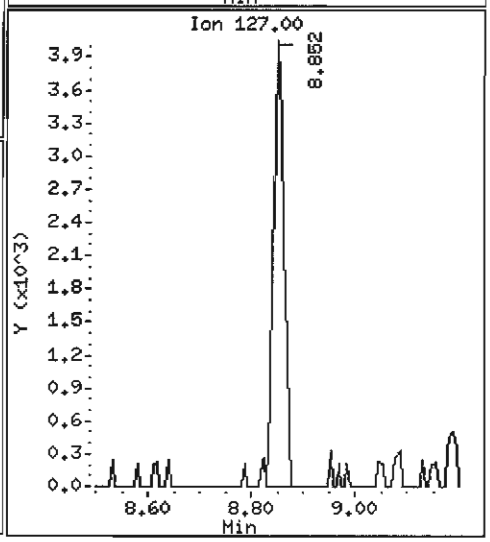












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

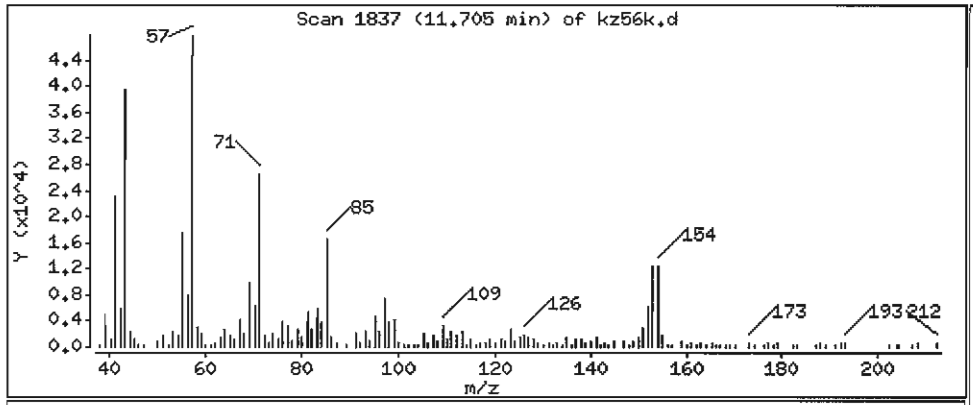
Column phase: ZB-5

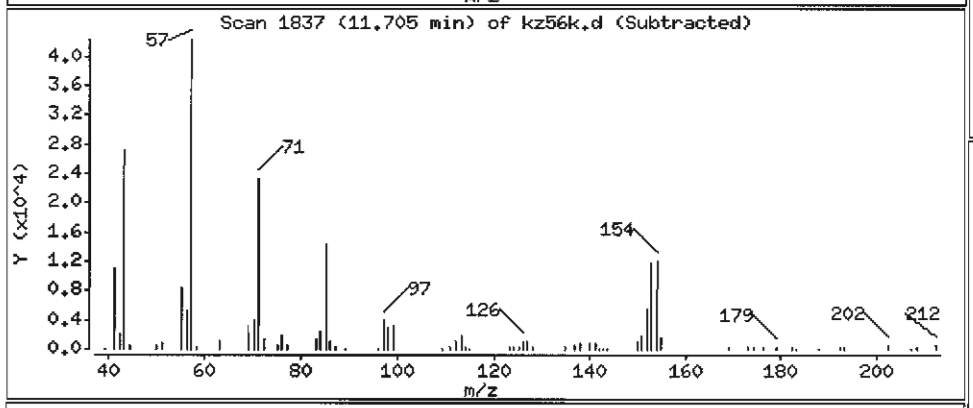
Column diameter: 0.32

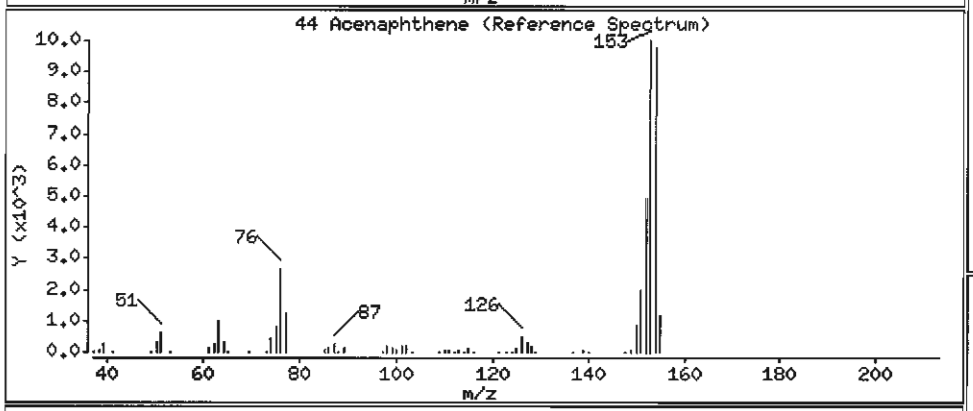
44 Acenaphthene

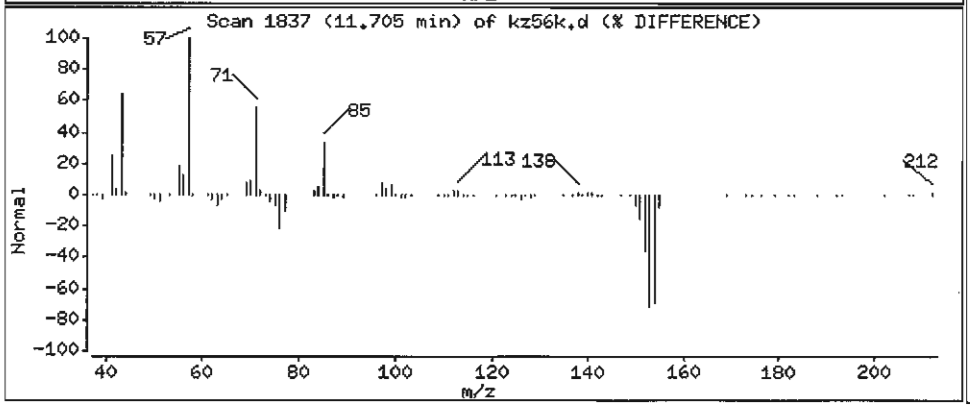
Concentration: 114.4 ug/kg

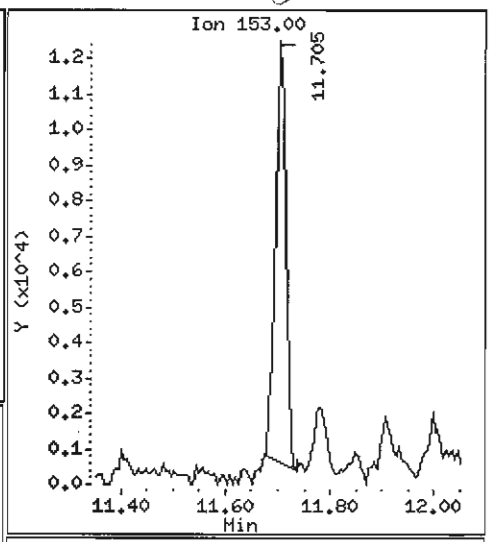
JLR

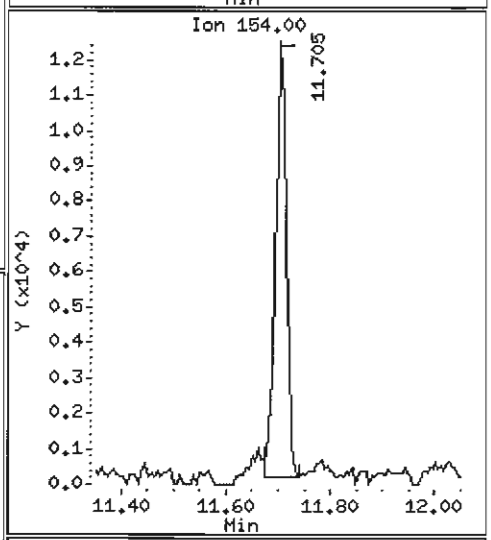


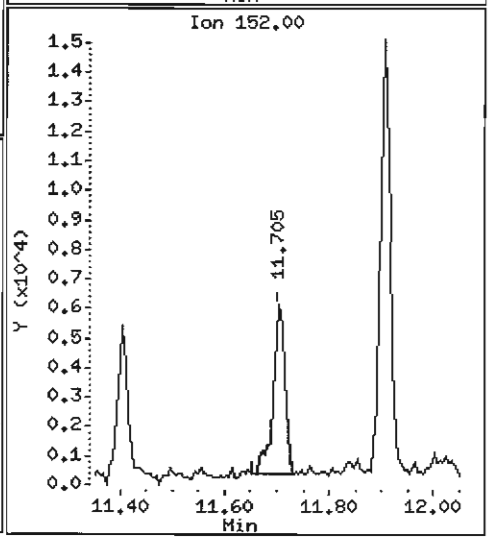












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

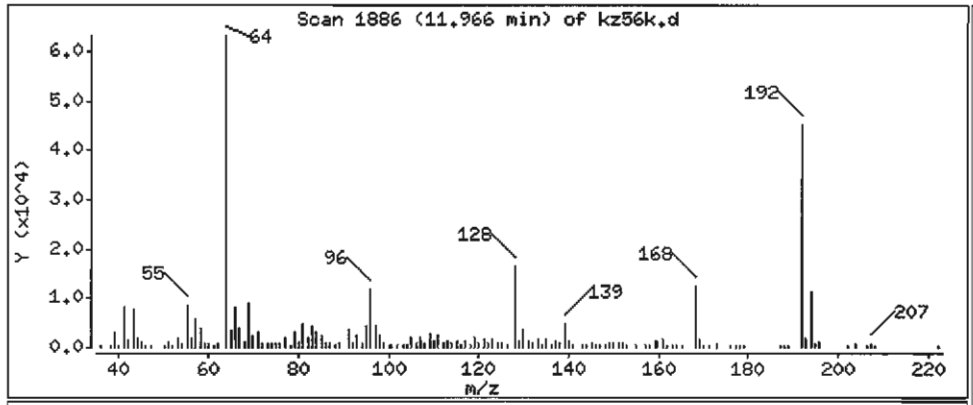
Operator: LJR/VTS

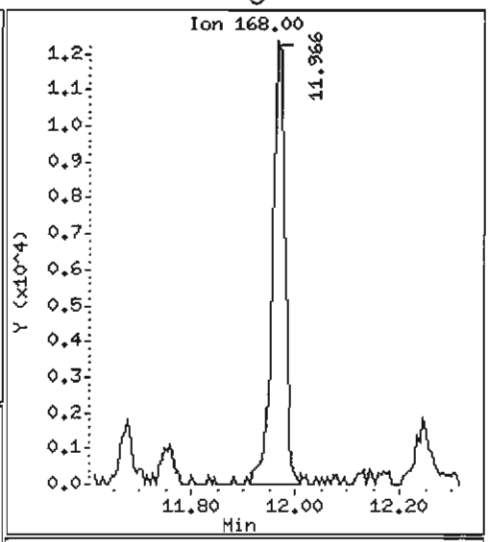
Column phase: ZB-5

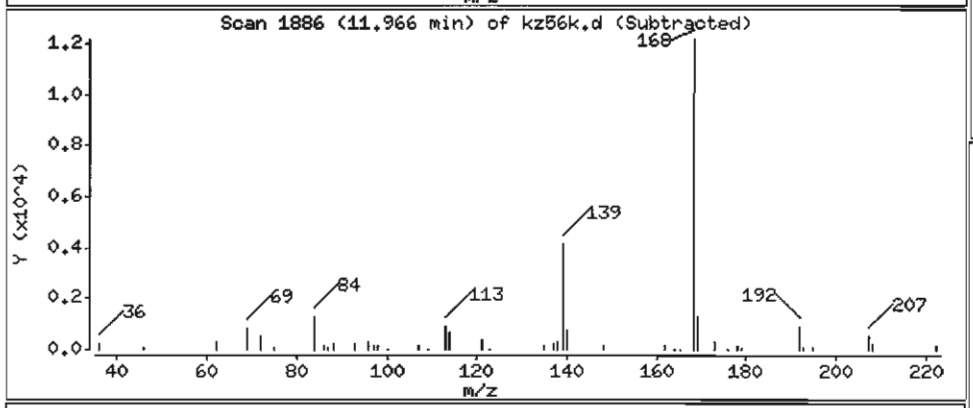
Column diameter: 0.32

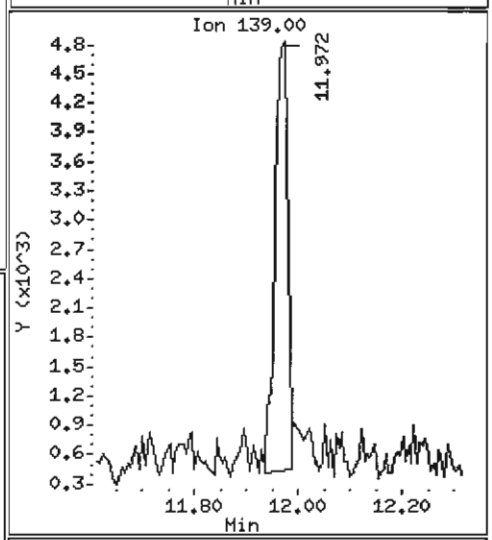
46 Dibenzofuran

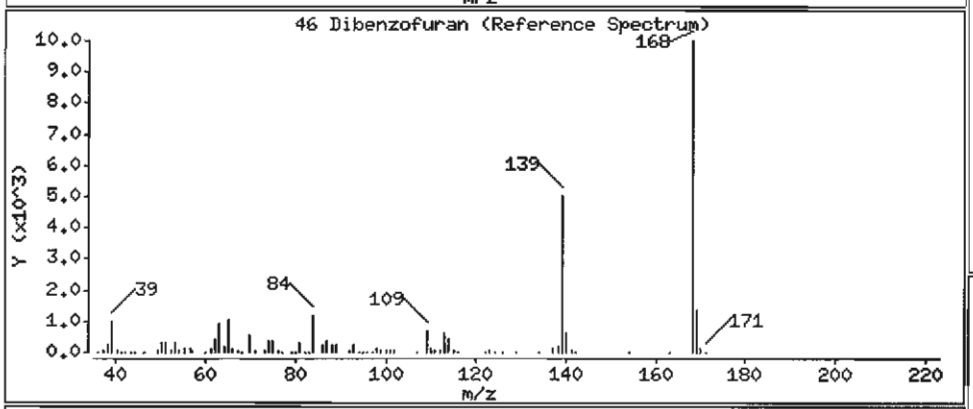
Concentration: 107.5 ug/kg

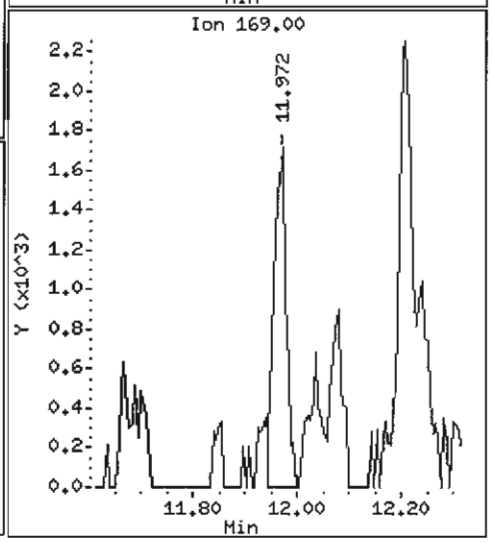


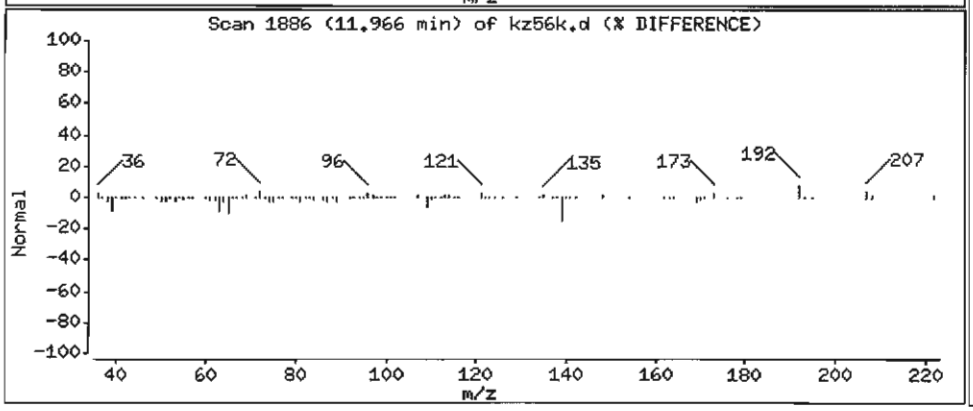












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

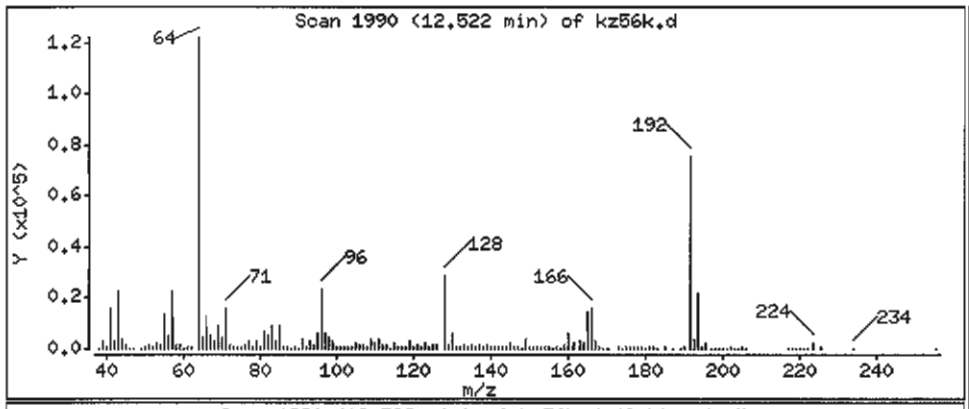
Operator: LJR/VTS

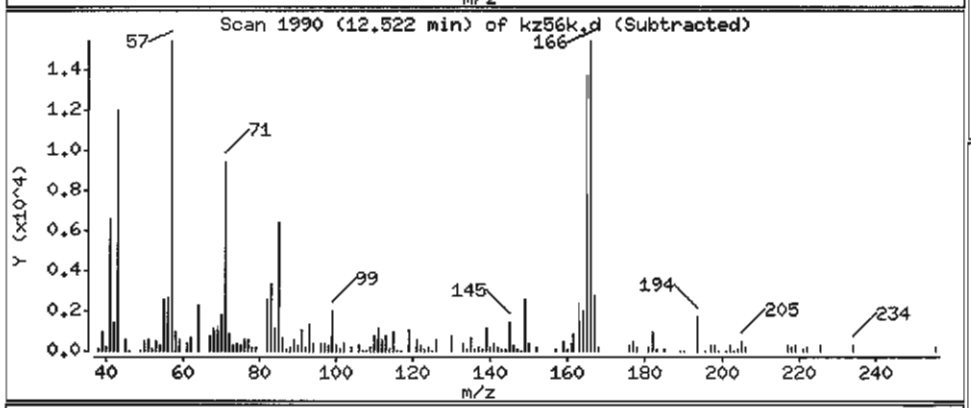
Column phase: ZB-5

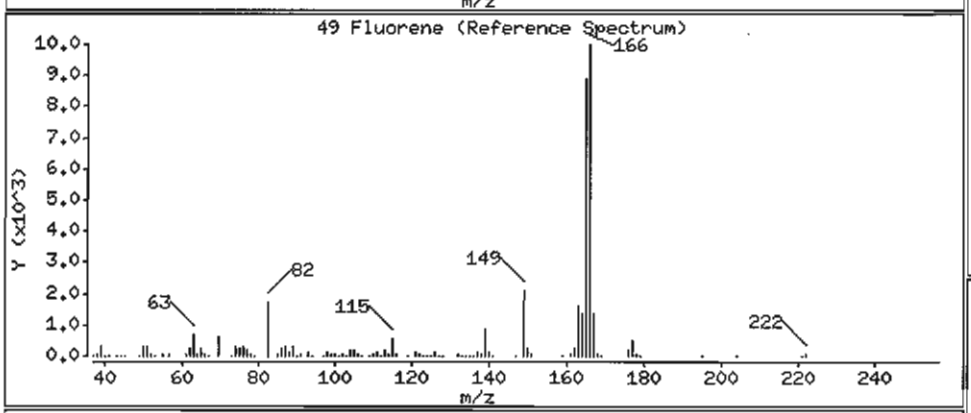
Column diameter: 0.32

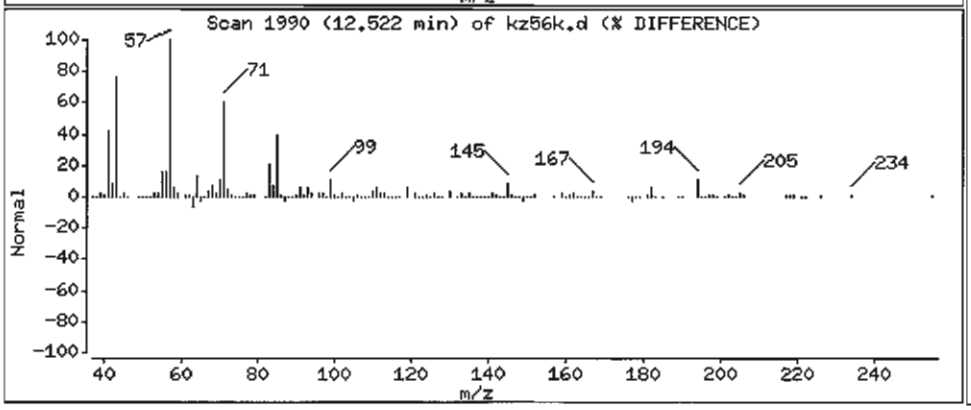
49 Fluorene

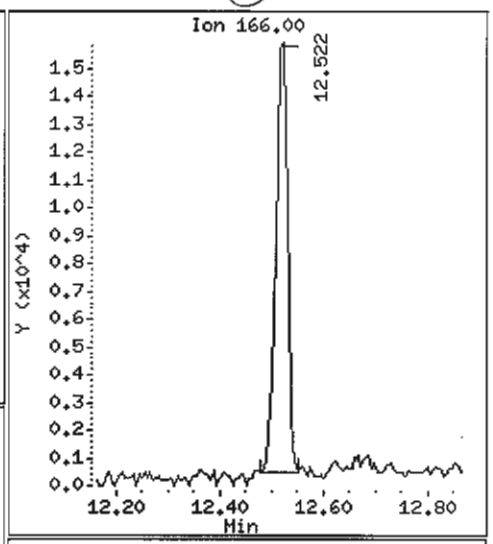
Concentration: 159.1 ug/kg

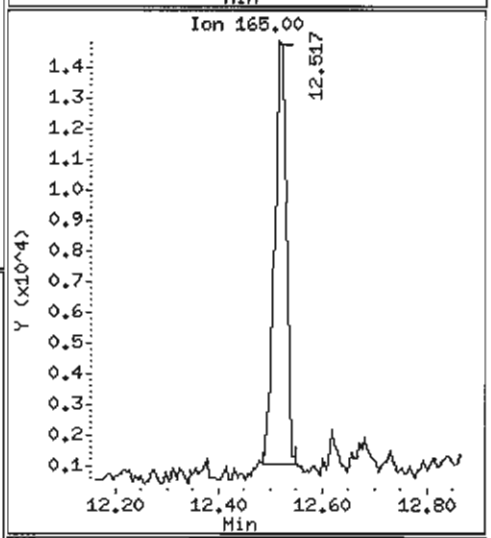


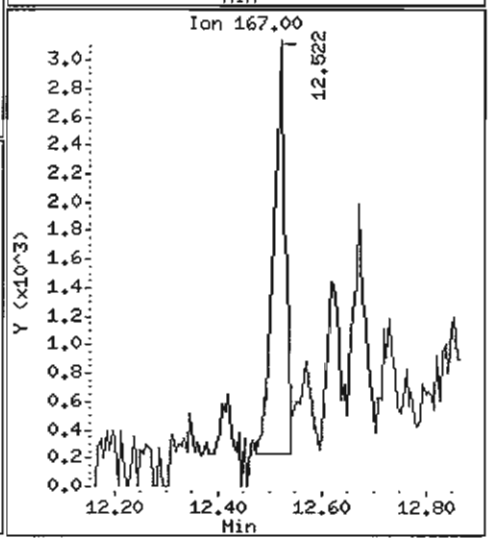












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

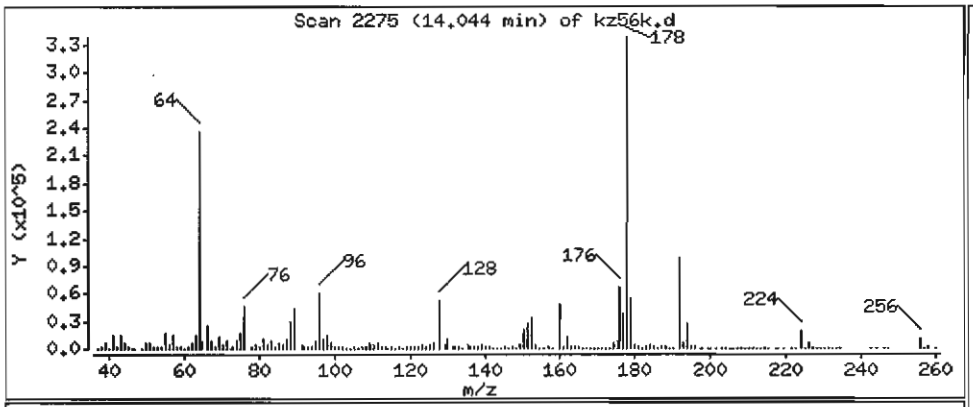
Operator: LJR/VTS

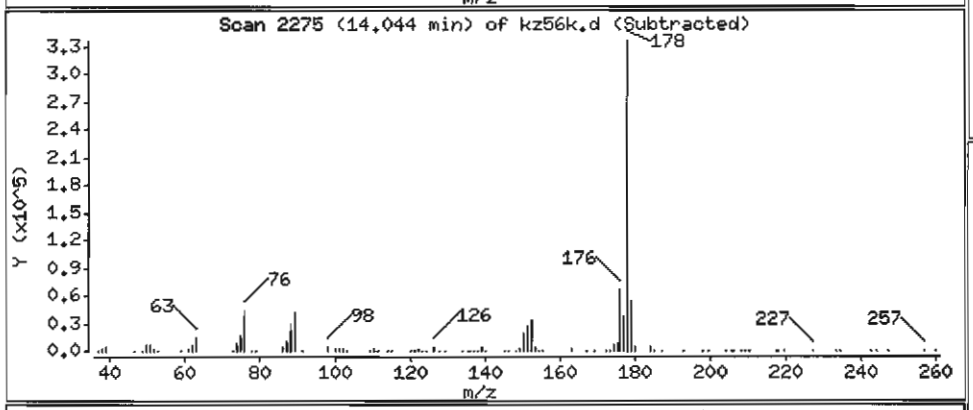
Column phase: ZB-5

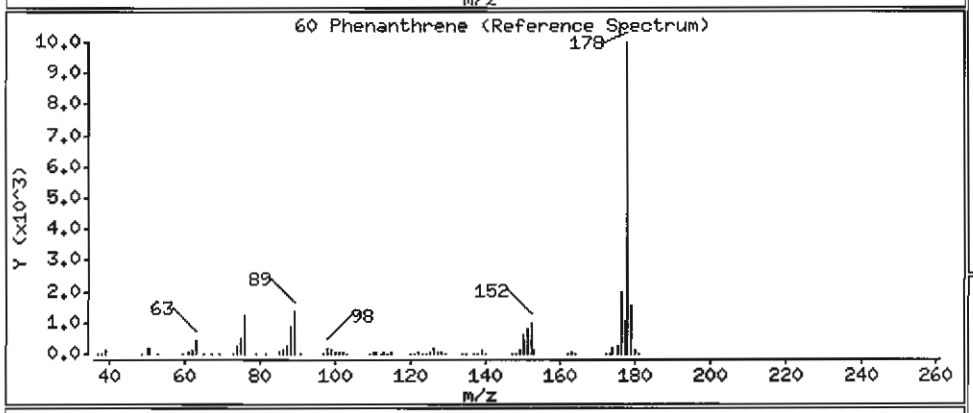
Column diameter: 0.32

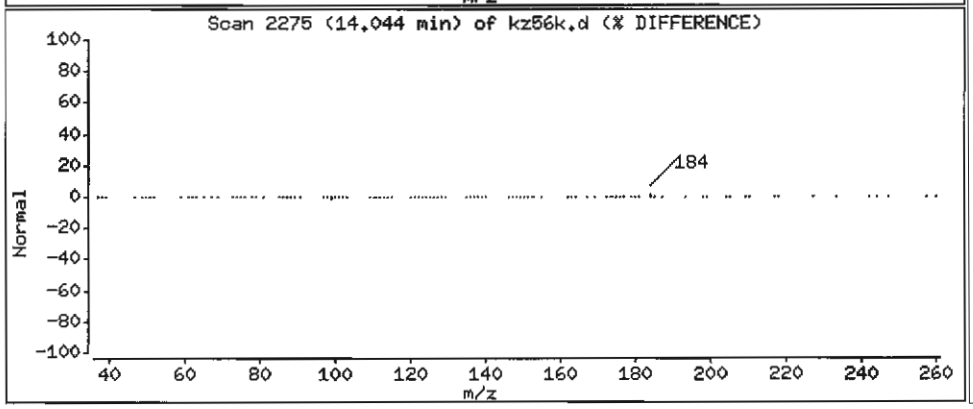
60 Phenanthrene

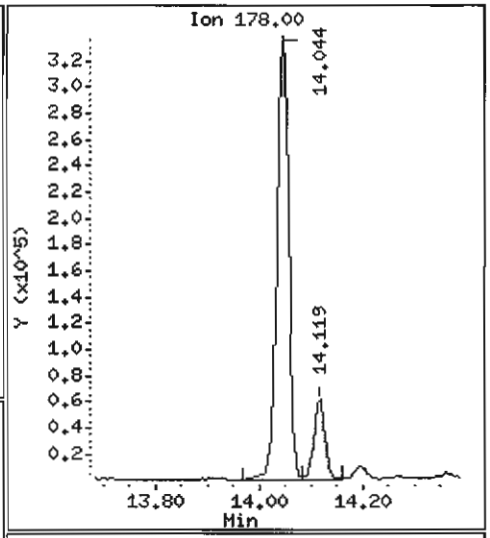
Concentration: 2515 ug/kg

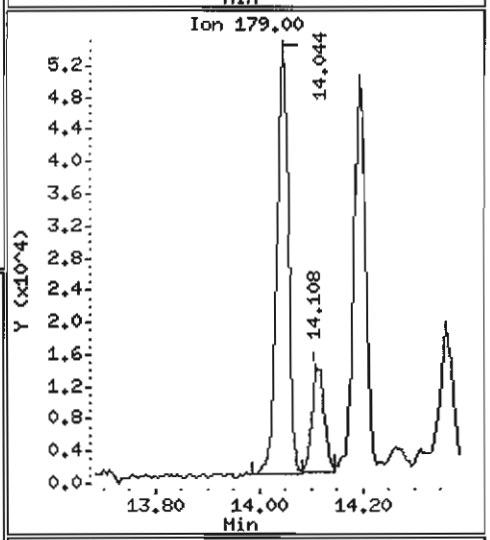


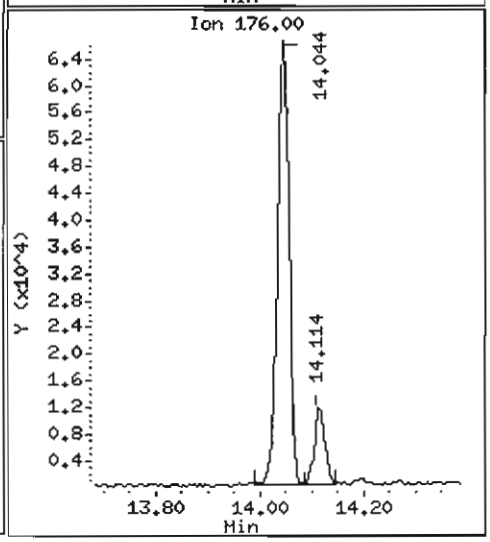












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

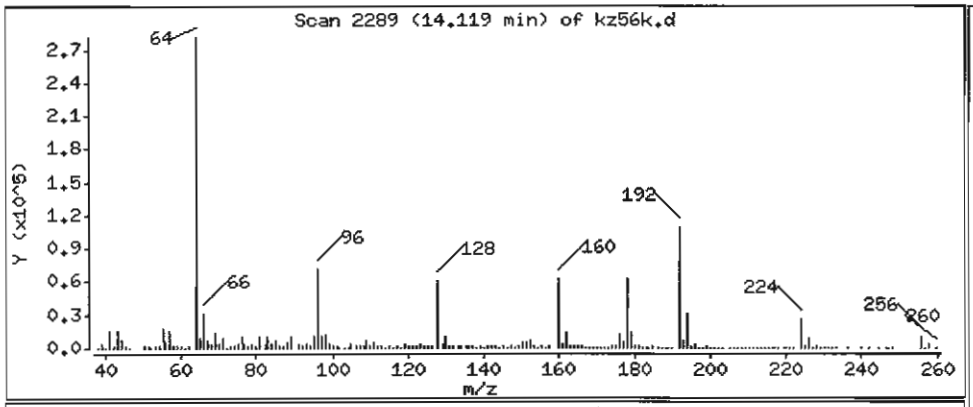
Operator: LJR/VTS

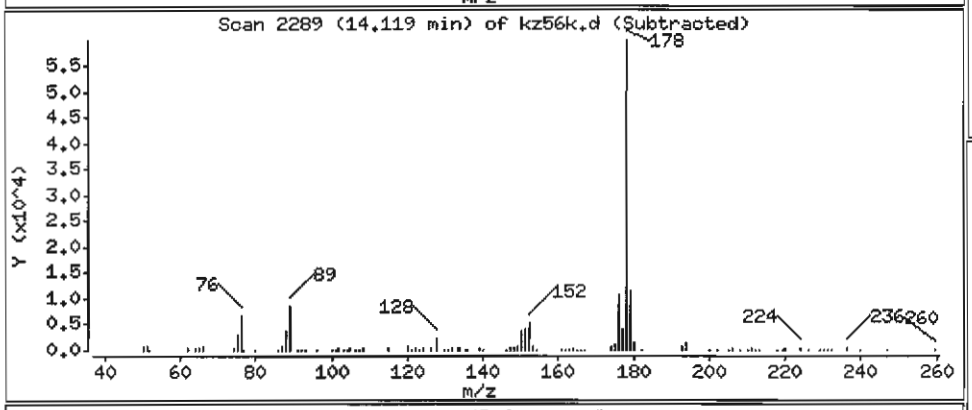
Column phase: ZB-5

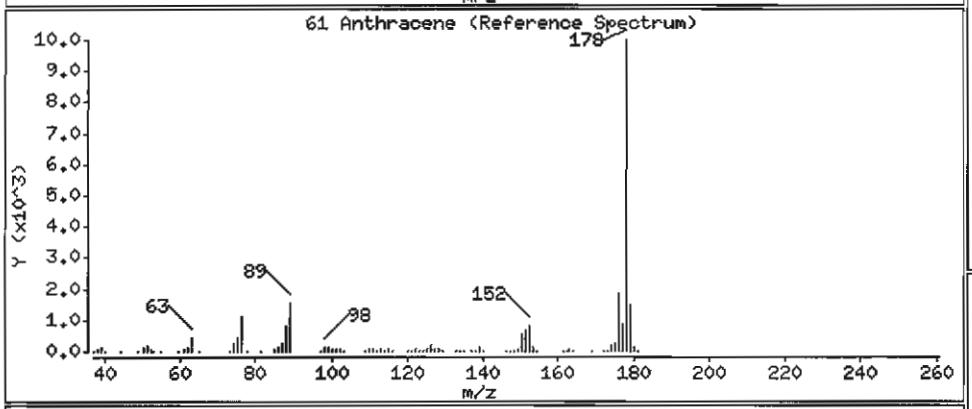
Column diameter: 0.32

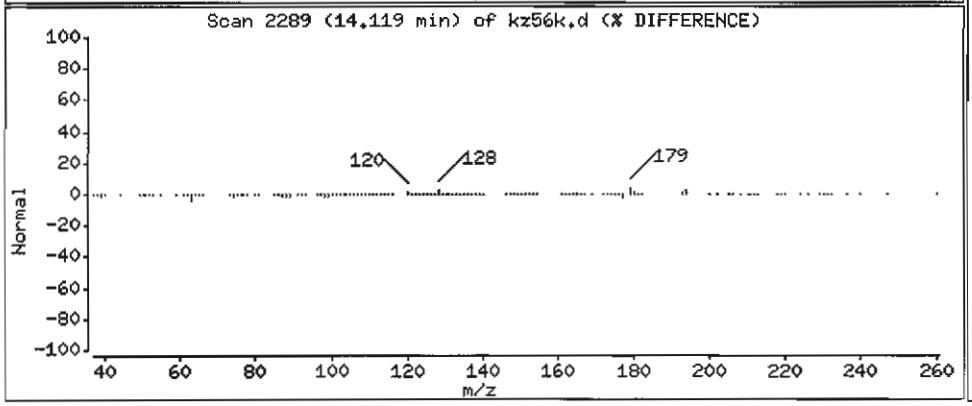
61 Anthracene

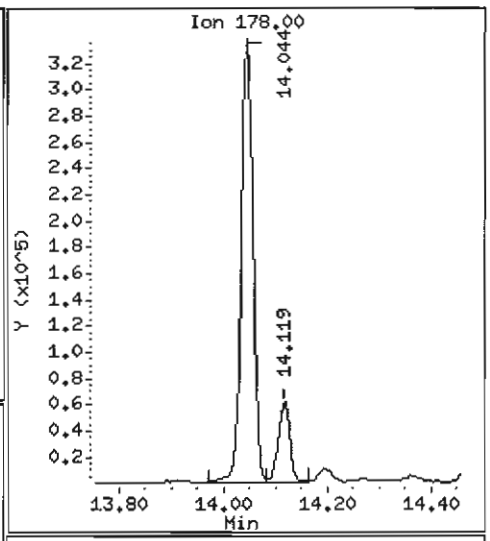
Concentration: 426.7 ug/kg

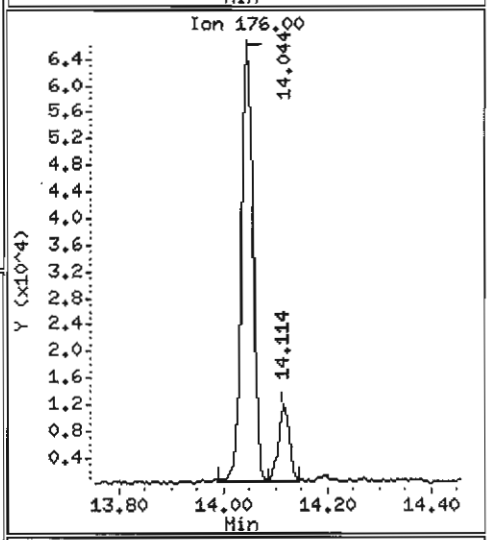


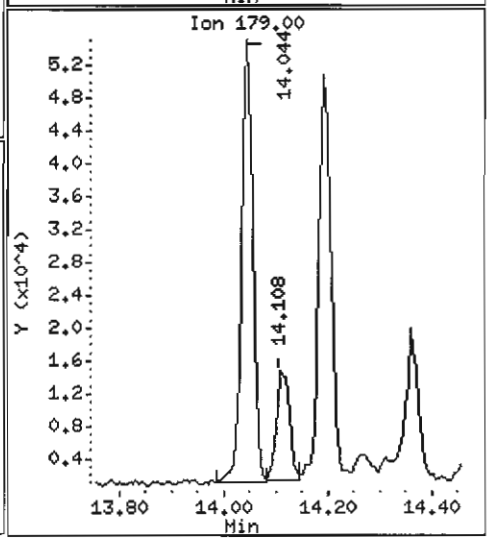












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

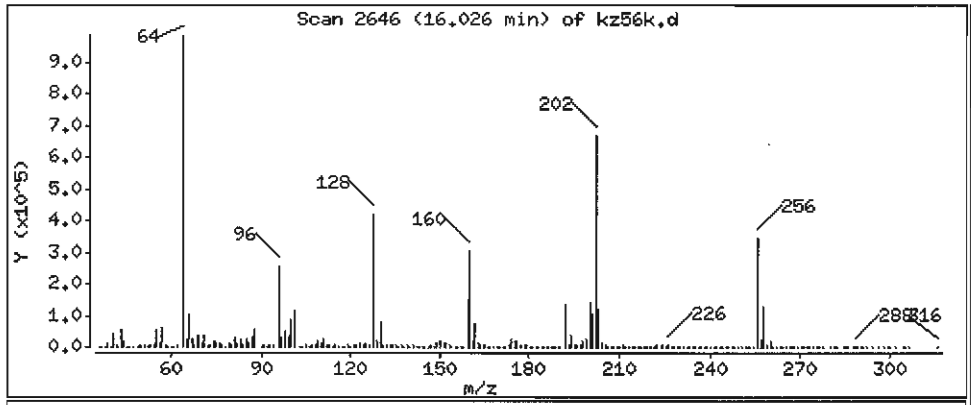
Operator: LJR/VTS

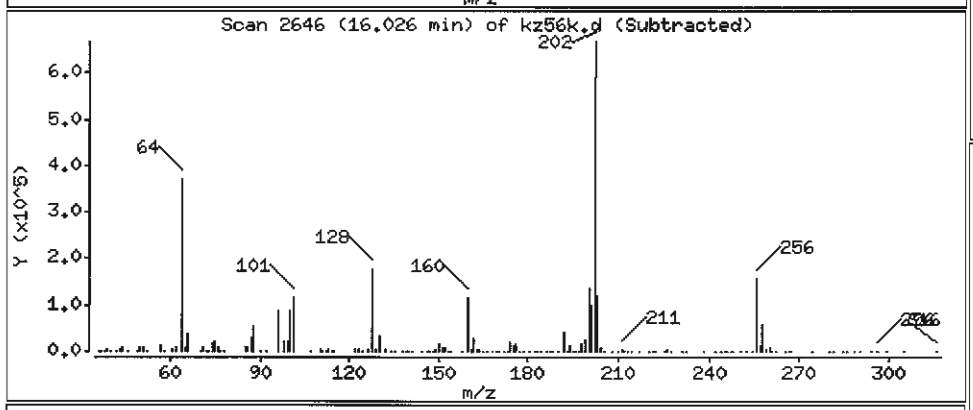
Column phase: ZB-5

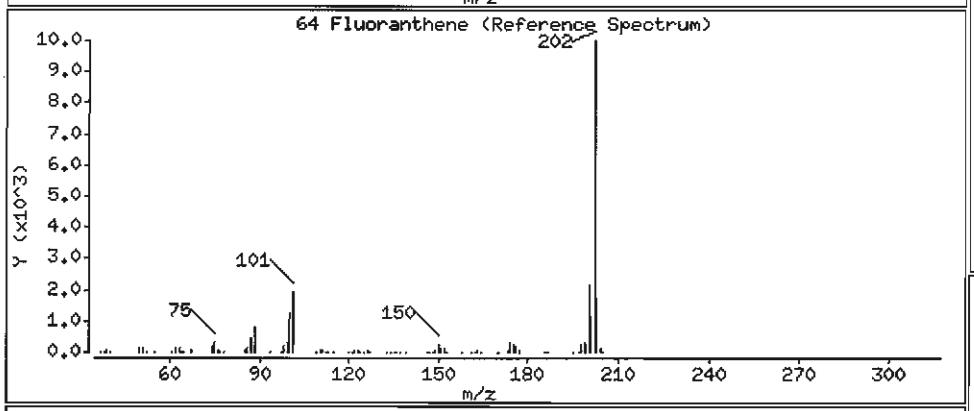
Column diameter: 0.32

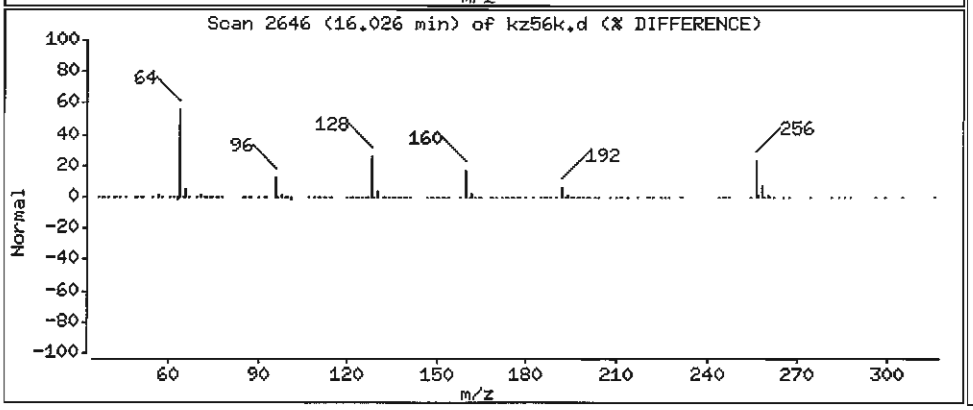
64 Fluoranthene

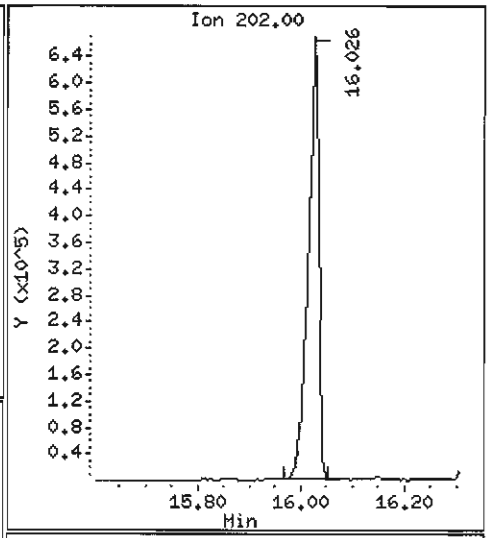
Concentration: 5017 ug/kg

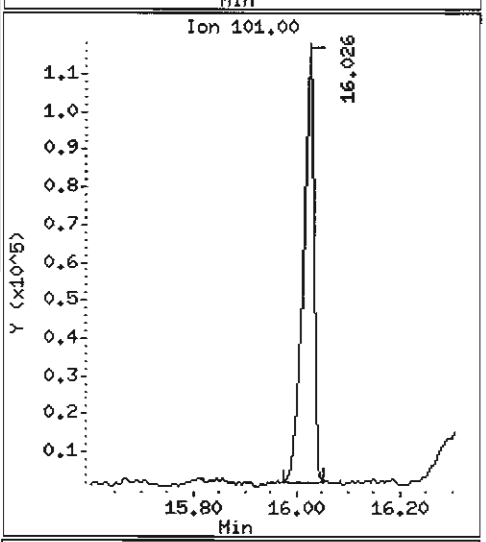


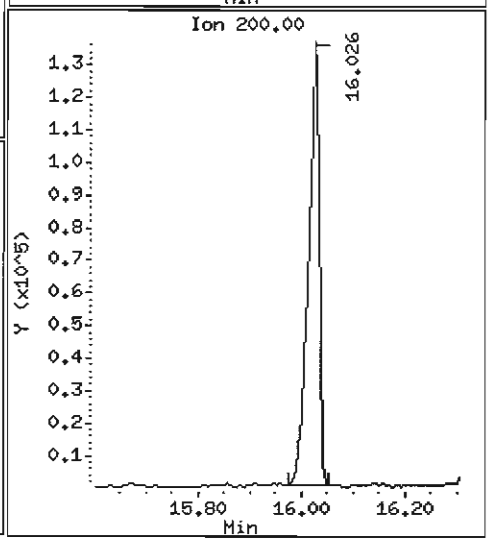












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

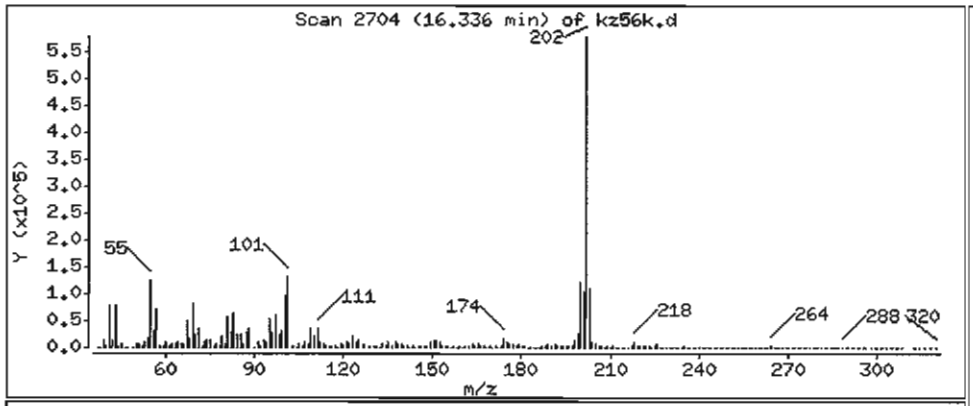
Operator: LJR/VTS

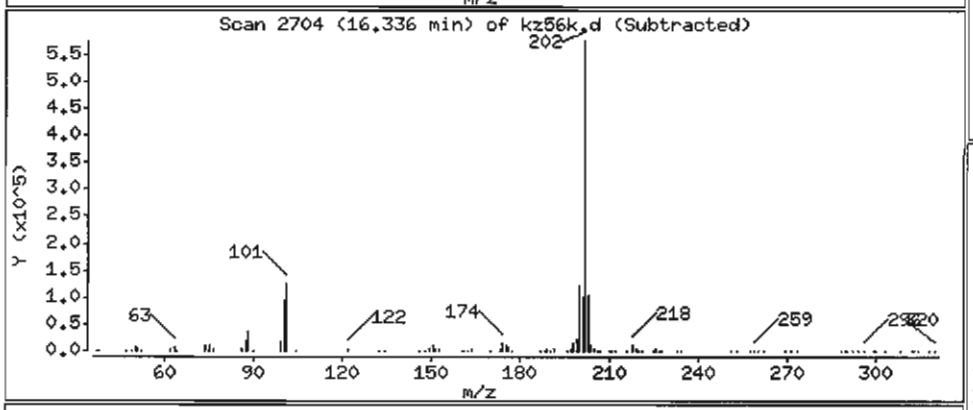
Column phase: ZB-5

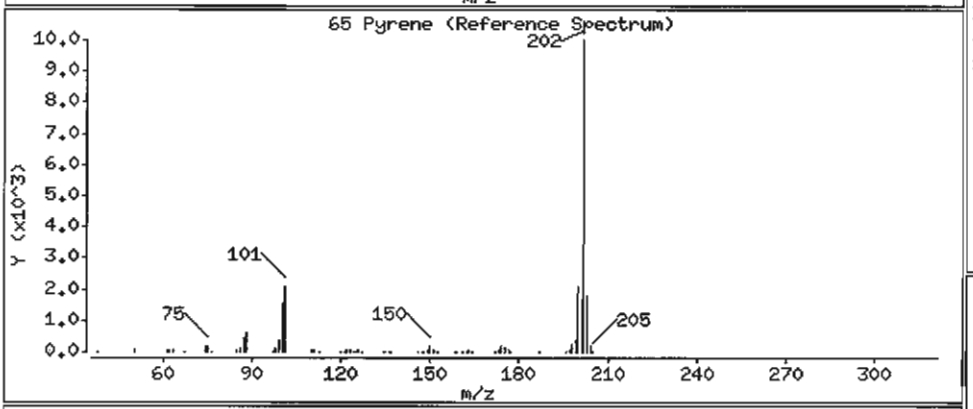
Column diameter: 0.32

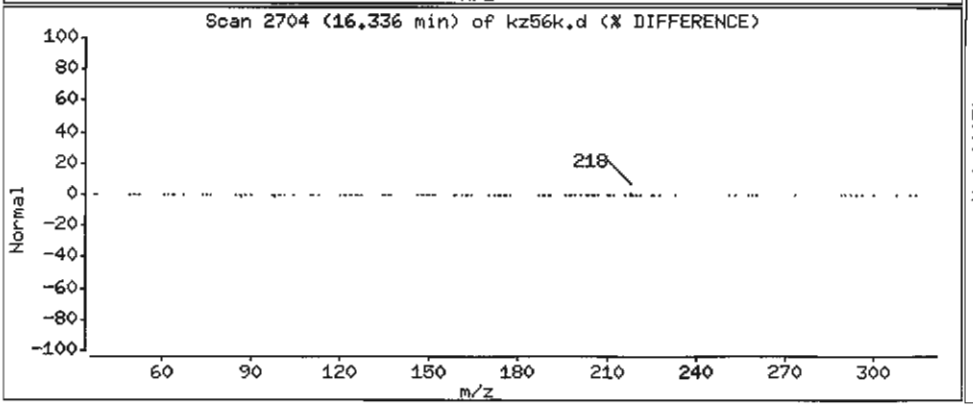
65 Pyrene

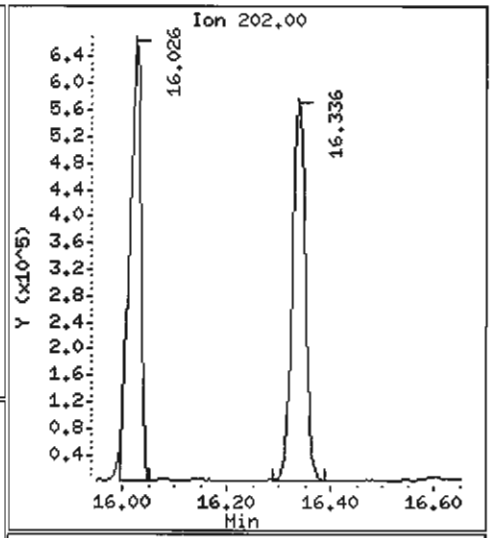
Concentration: 4685 ug/kg

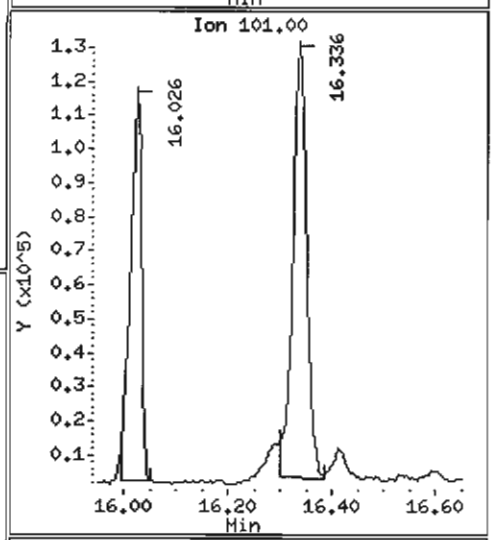


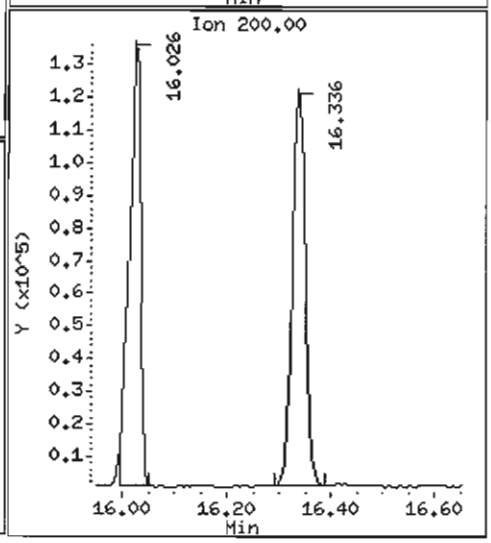












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

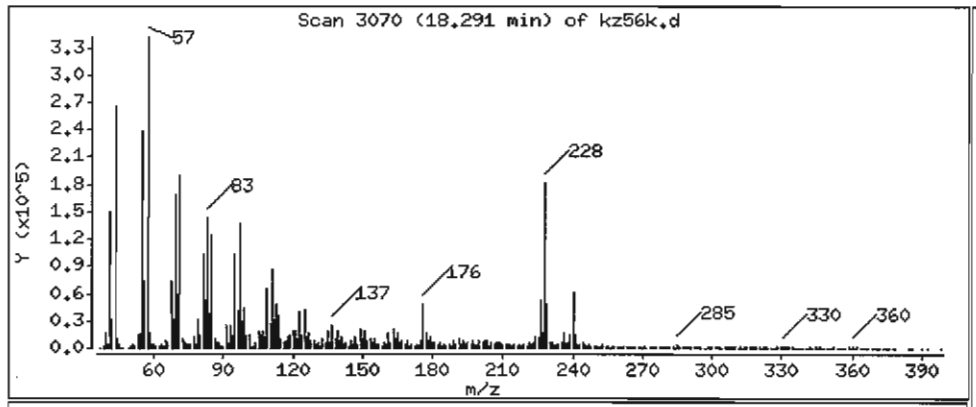
Operator: LJR/VTS

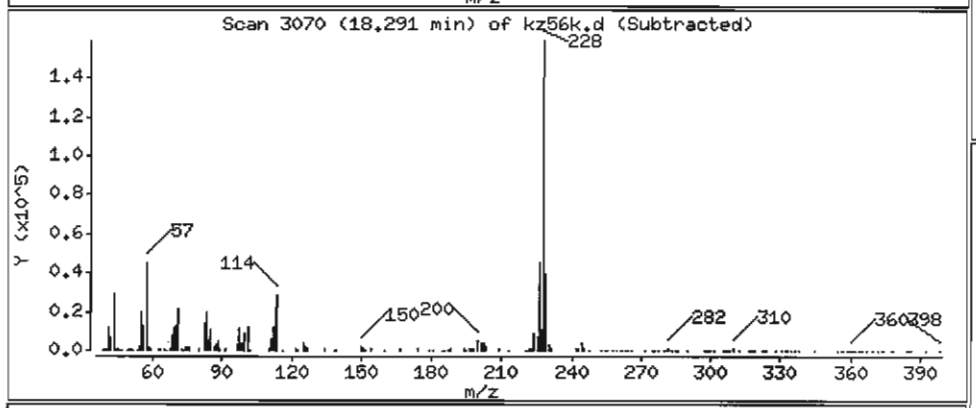
Column phase: ZB-5

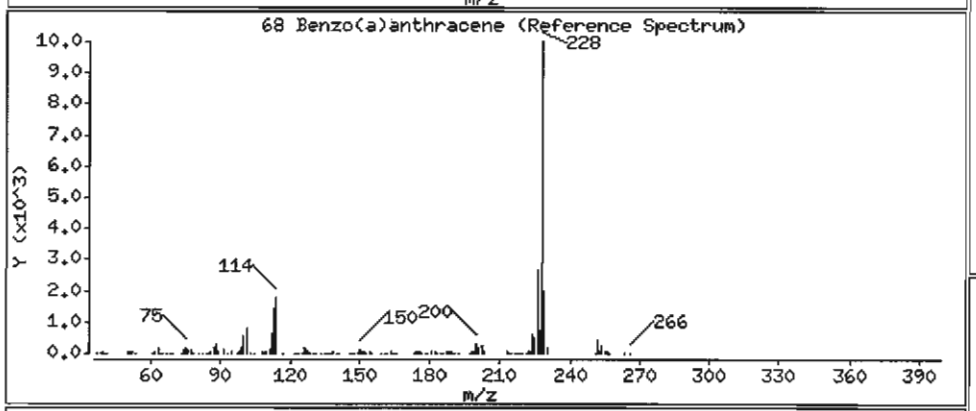
Column diameter: 0.32

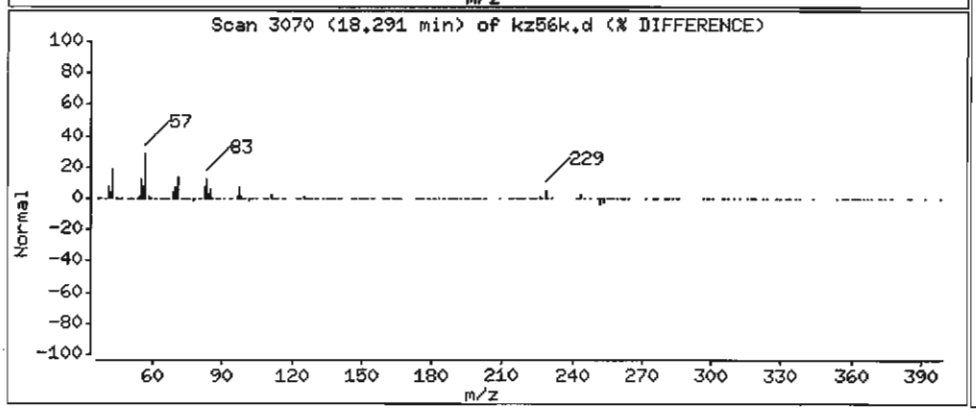
68 Benzo(a)anthracene

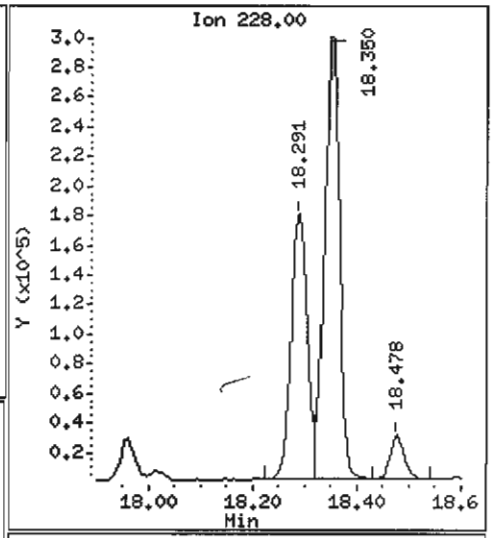
Concentration: 2017 ug/kg

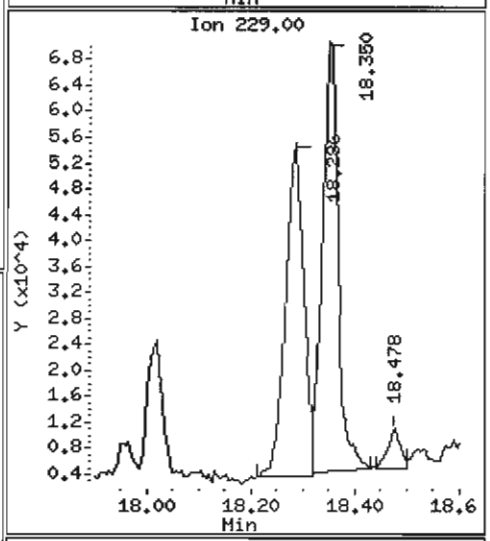


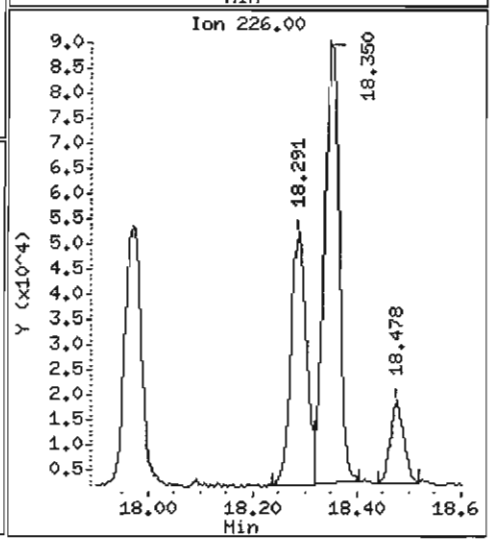












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

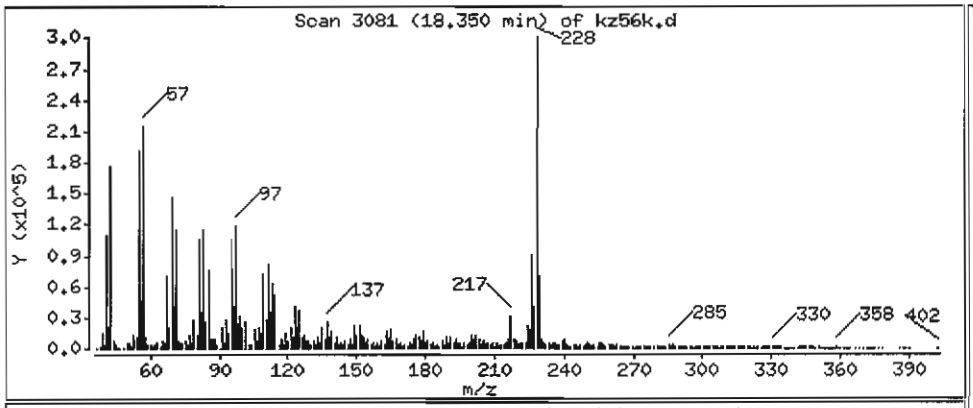
Operator: LJR/VTS

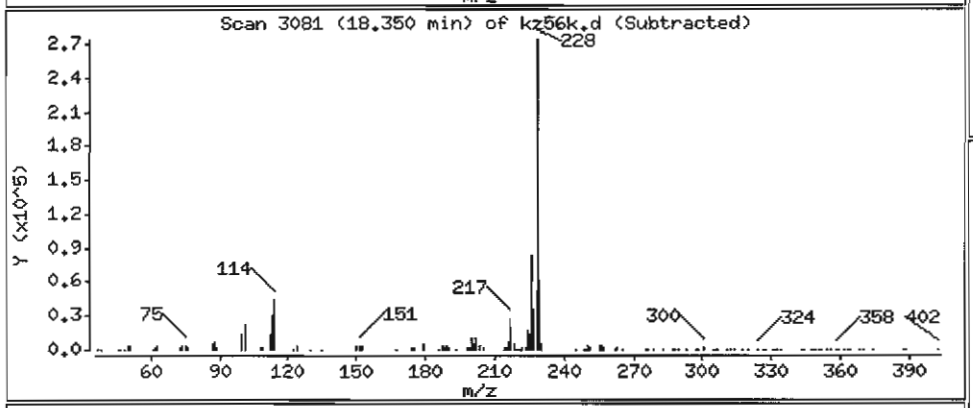
Column phase: ZB-5

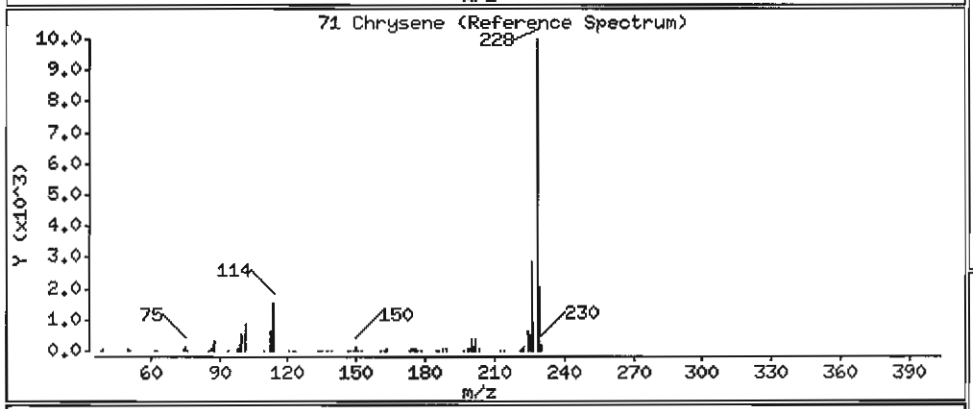
Column diameter: 0.32

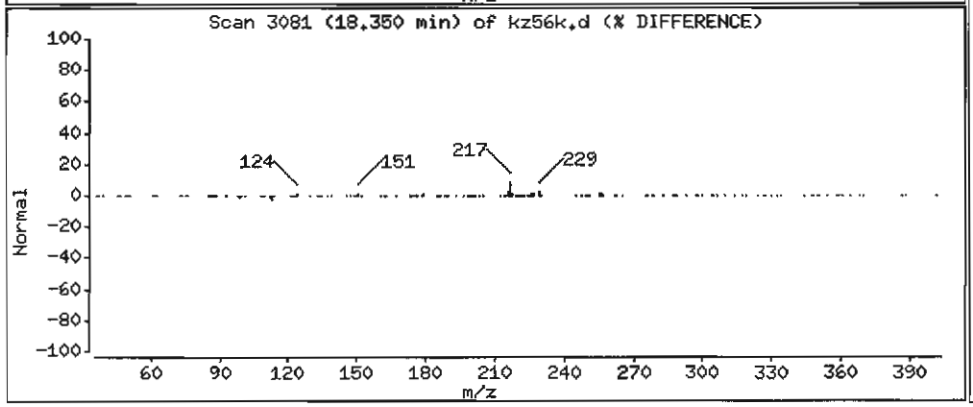
71 Chrysene

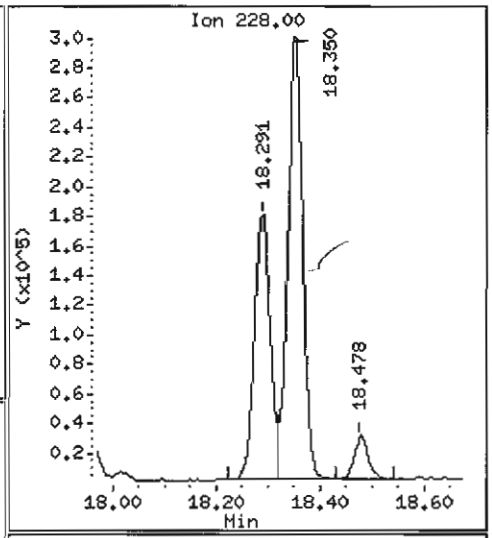
Concentration: 3107 ug/kg

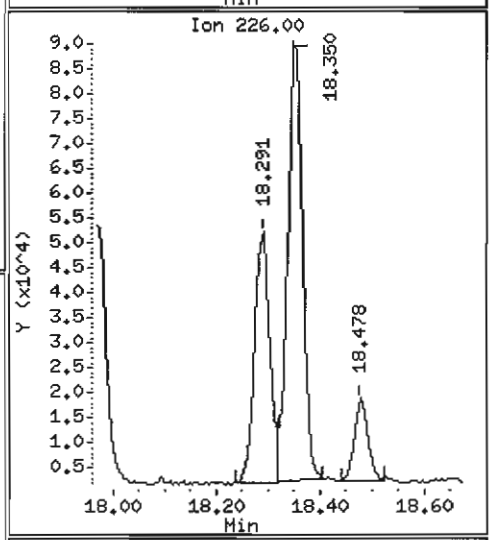


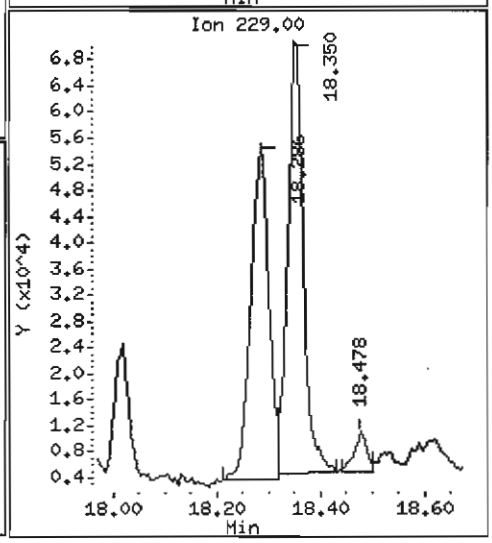












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

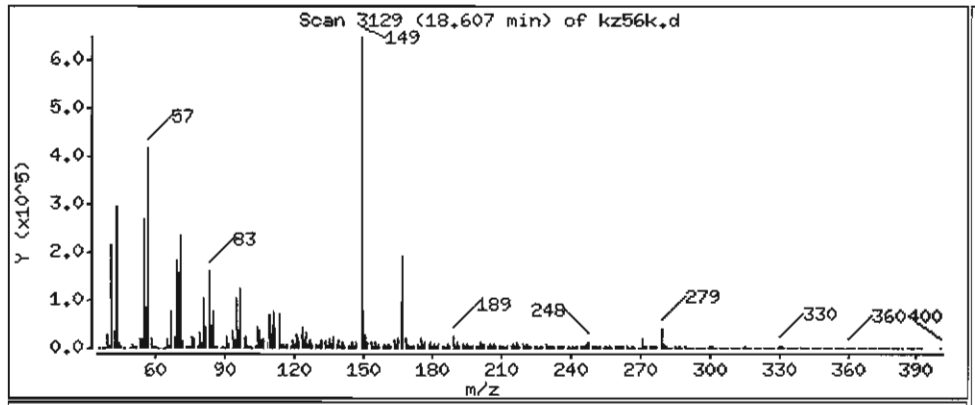
Operator: LJR/VTS

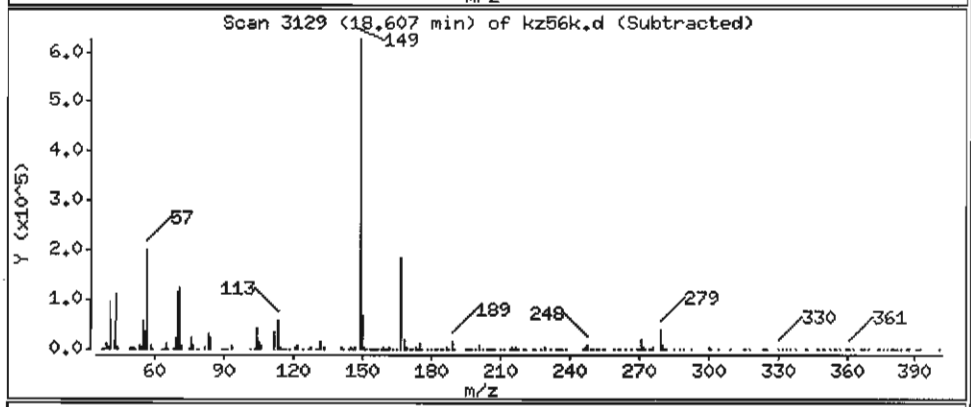
Column phase: ZB-5

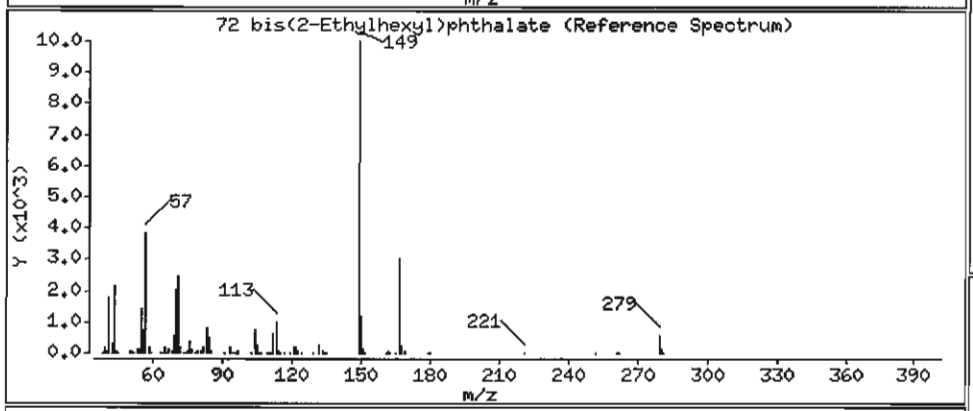
Column diameter: 0.32

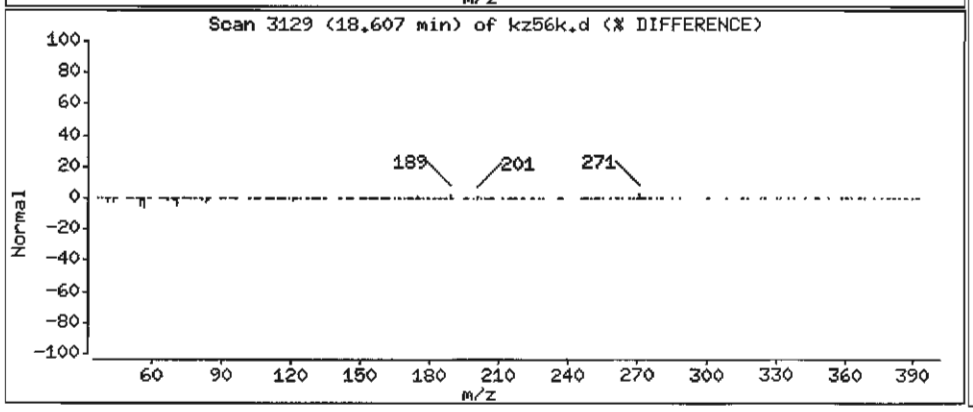
72 bis(2-Ethylhexyl)phthalate

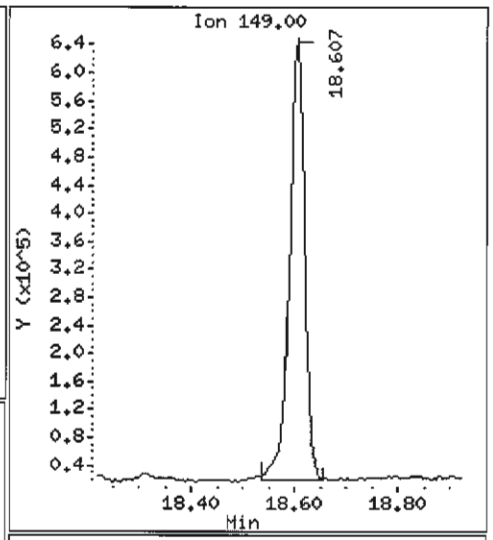
Concentration: 9524 ug/kg

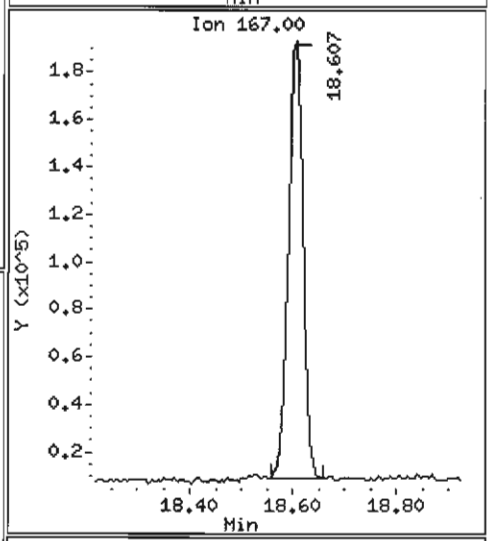


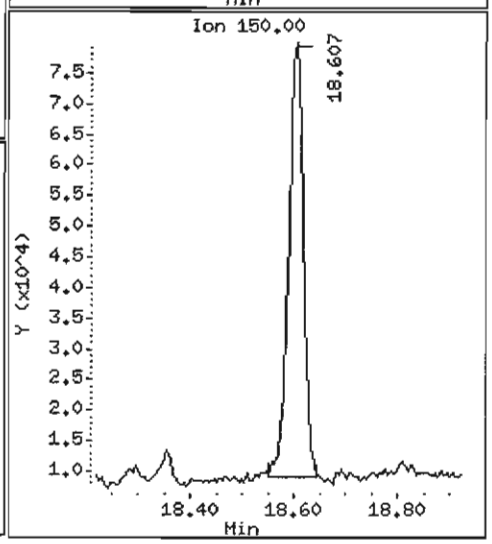












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

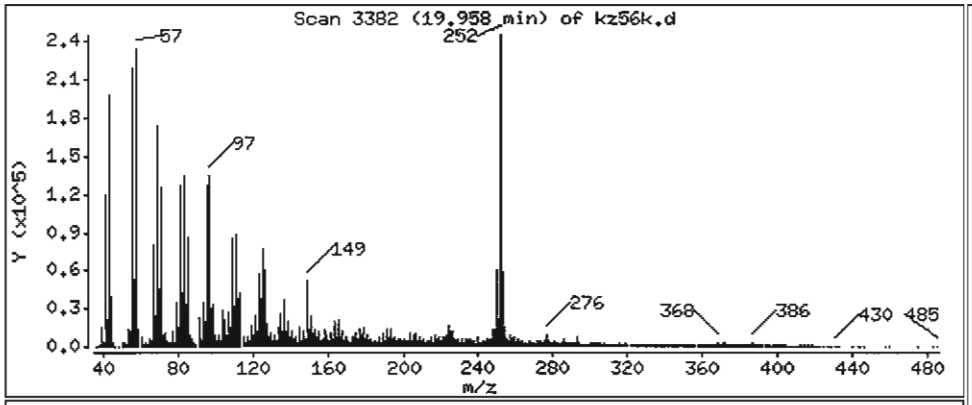
Operator: LJR/VTS

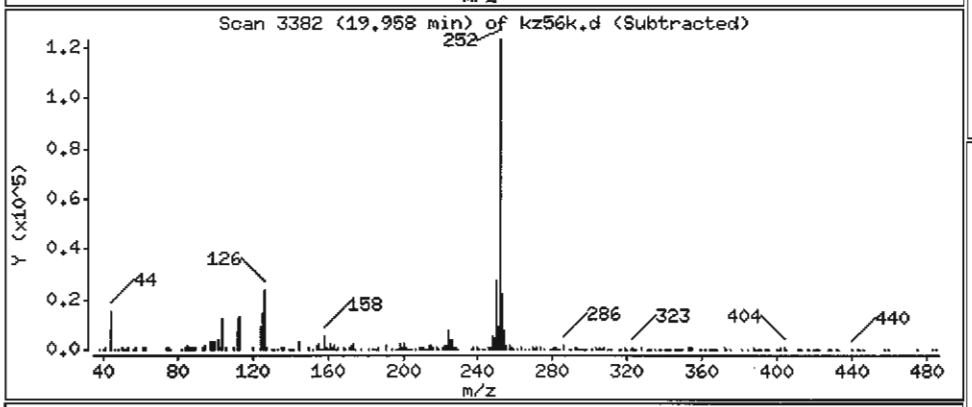
Column phase: ZB-5

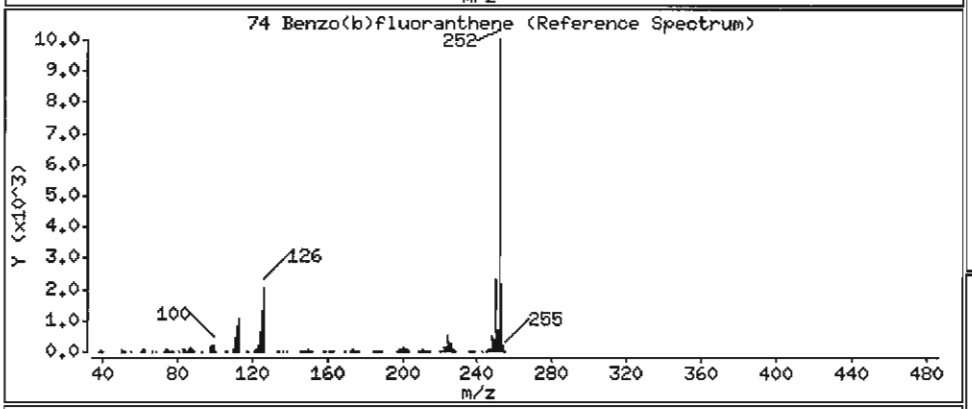
Column diameter: 0.32

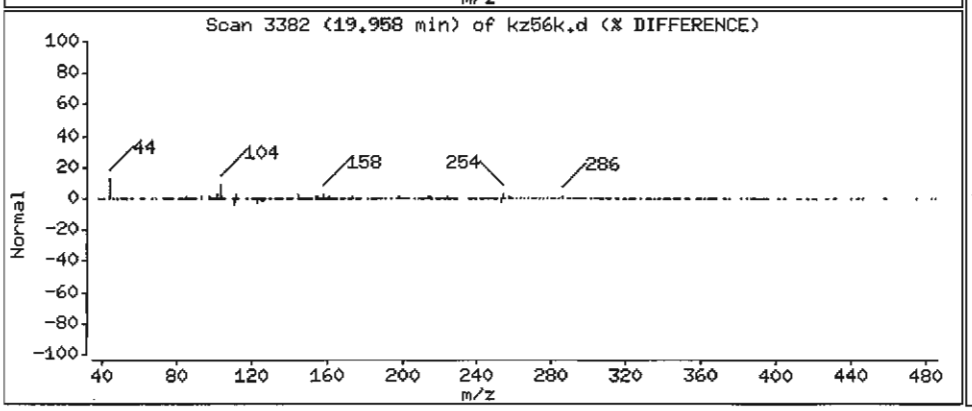
74 Benzo(b)fluoranthene

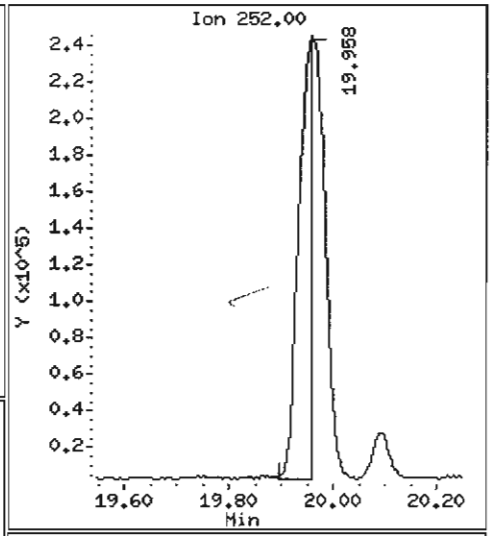
Concentration: 3315 ug/kg

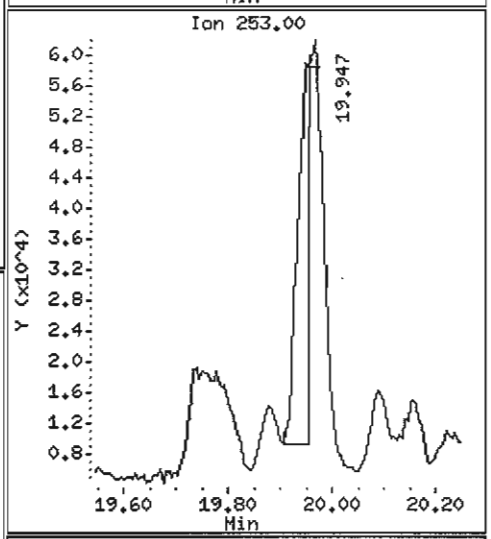


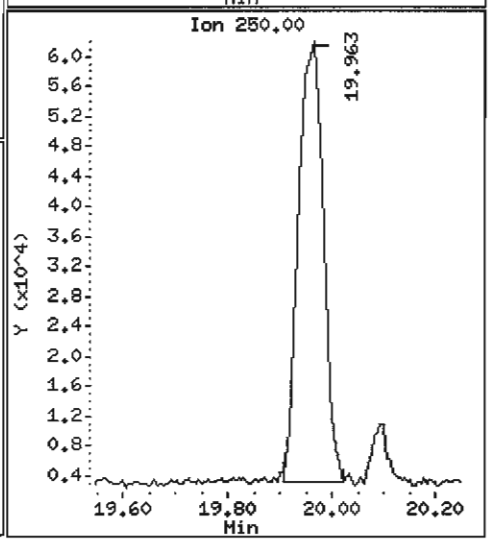












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

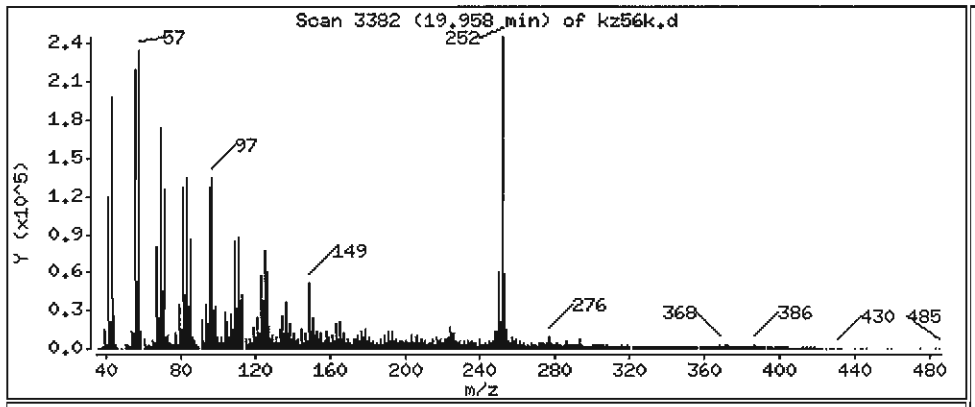
Operator: LJR/VTS

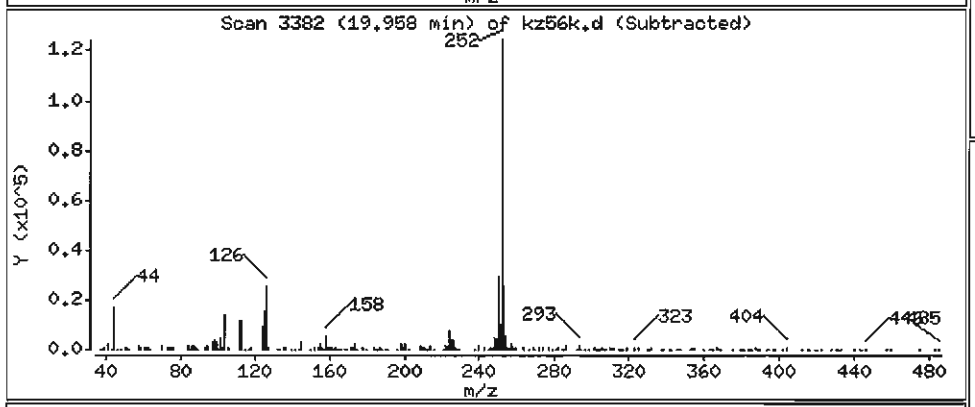
Column phase: ZB-5

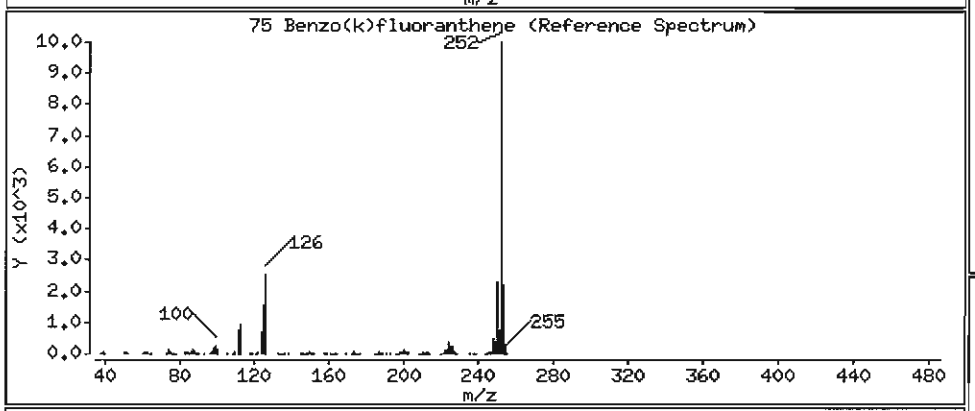
Column diameter: 0.32

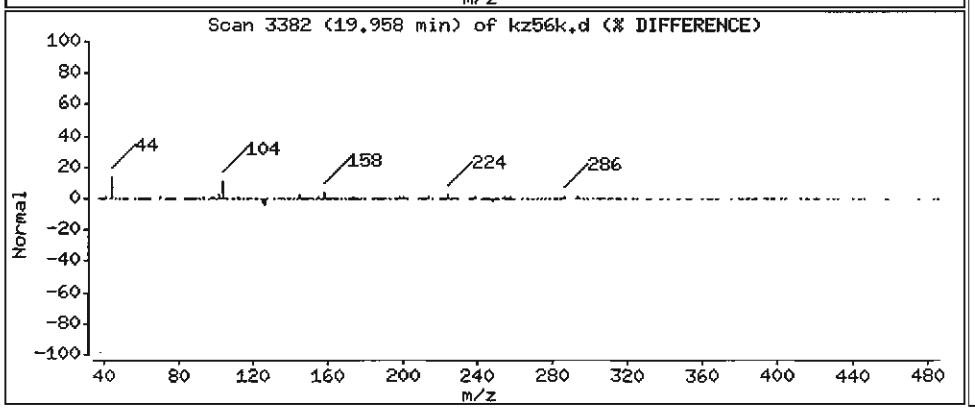
75 Benzo(k)fluoranthene

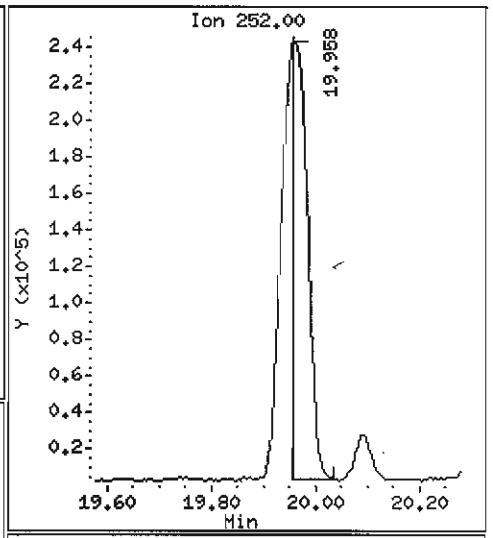
Concentration: 3554 ug/kg

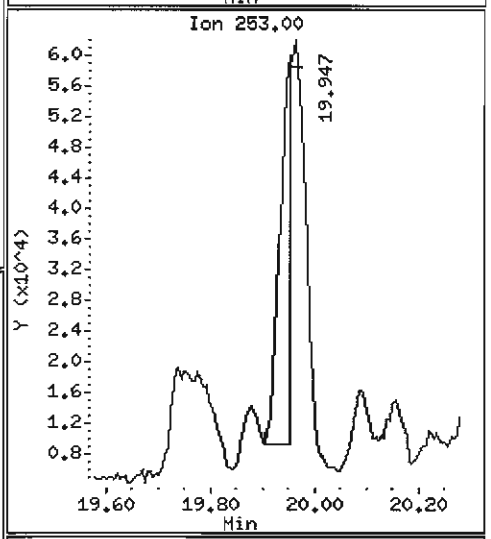


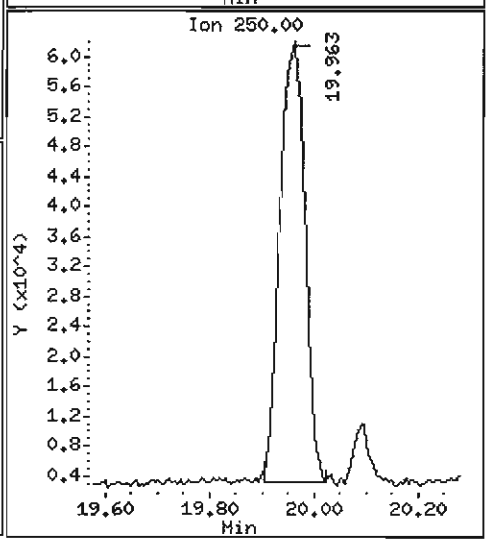












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

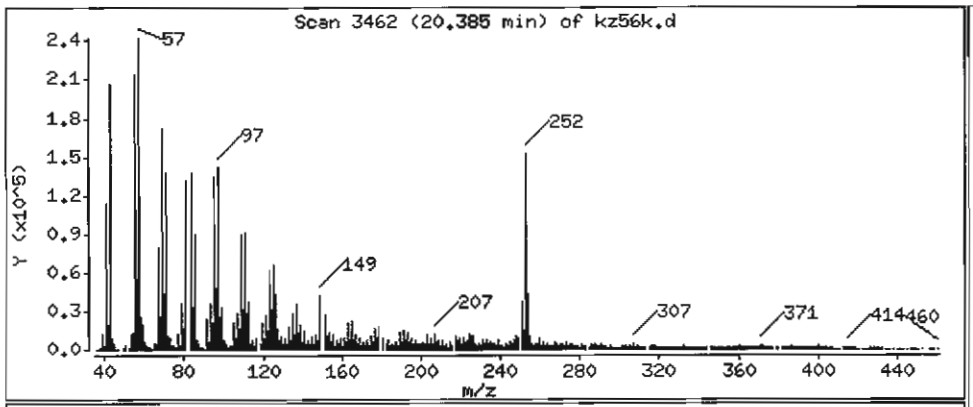
Operator: LJR/VTS

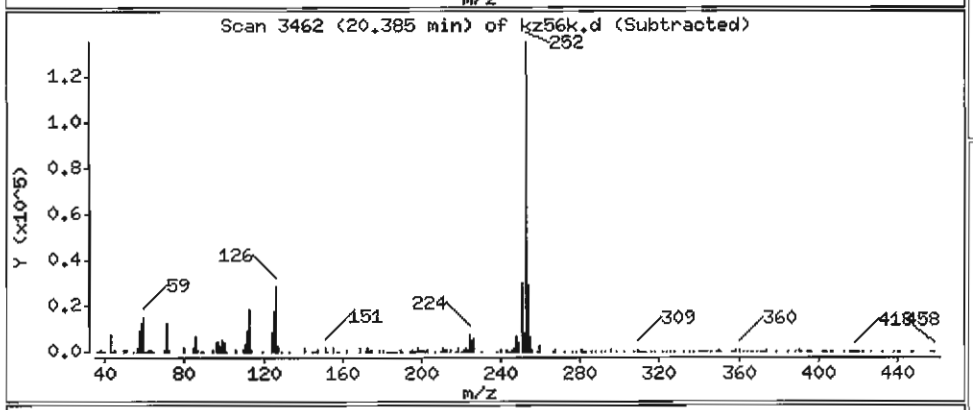
Column phase: ZB-5

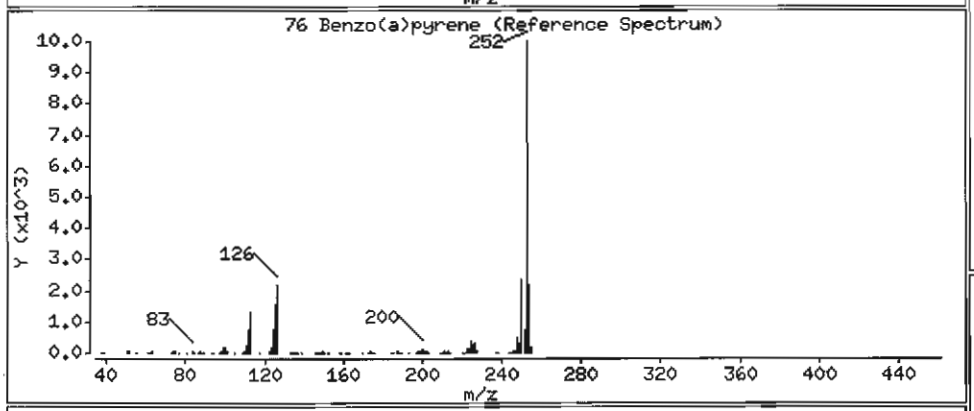
Column diameter: 0.32

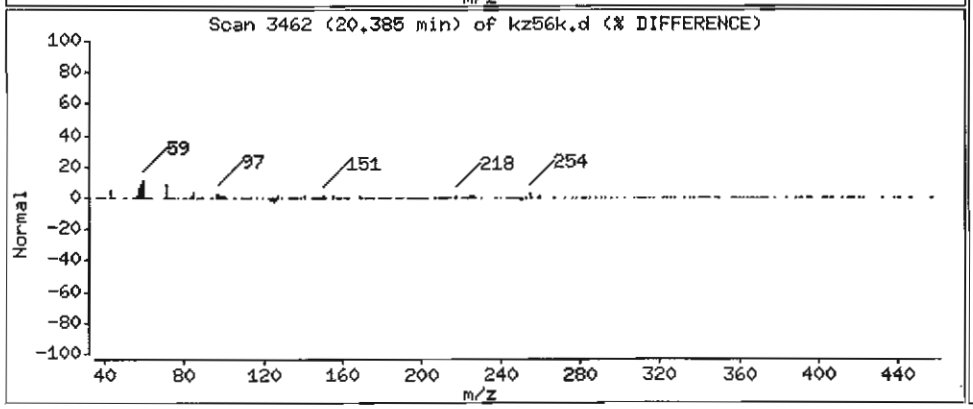
76 Benzo(a)pyrene

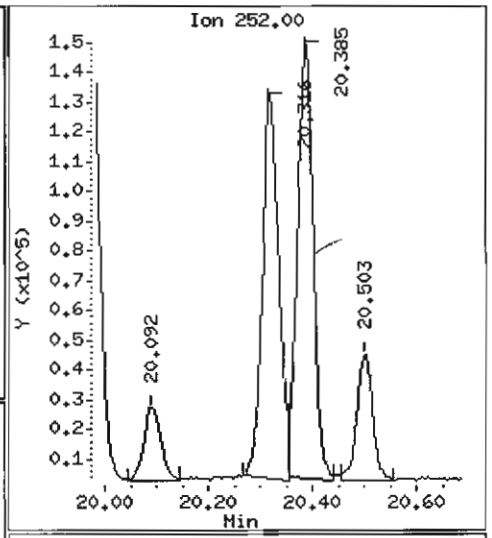
Concentration: 2281 ug/kg

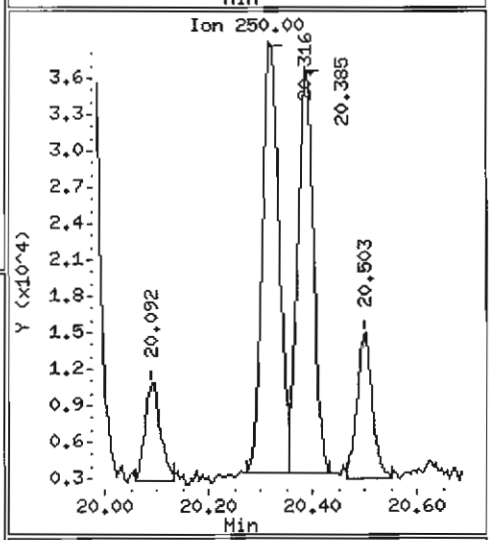


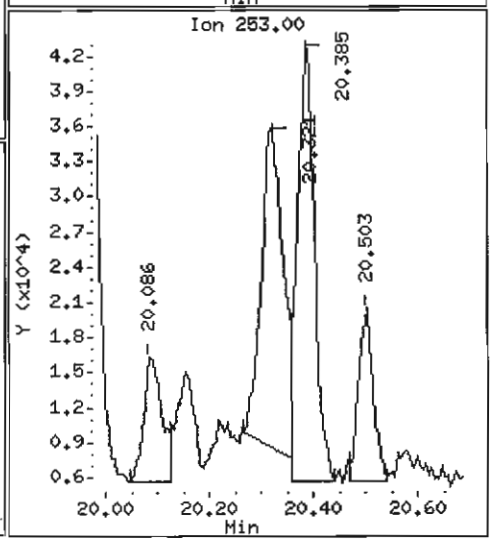












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

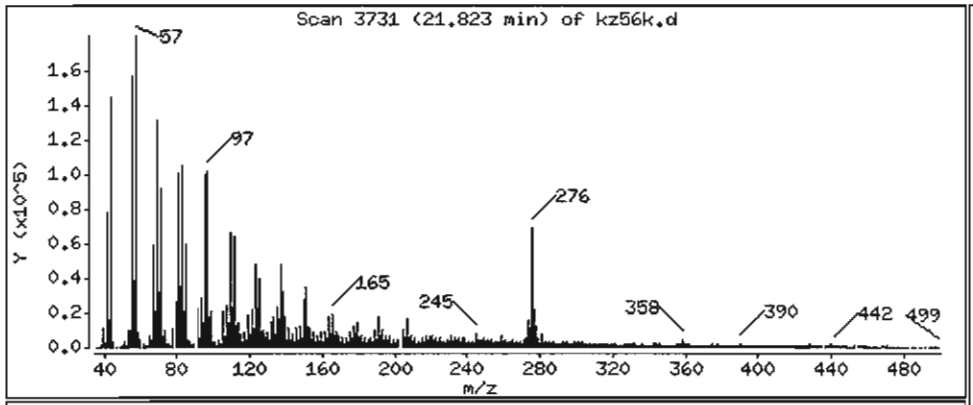
Operator: LJR/VTS

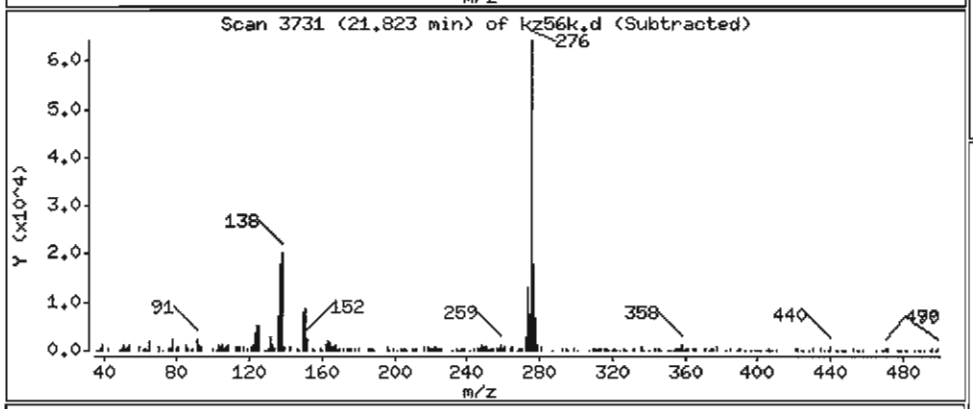
Column phase: ZB-5

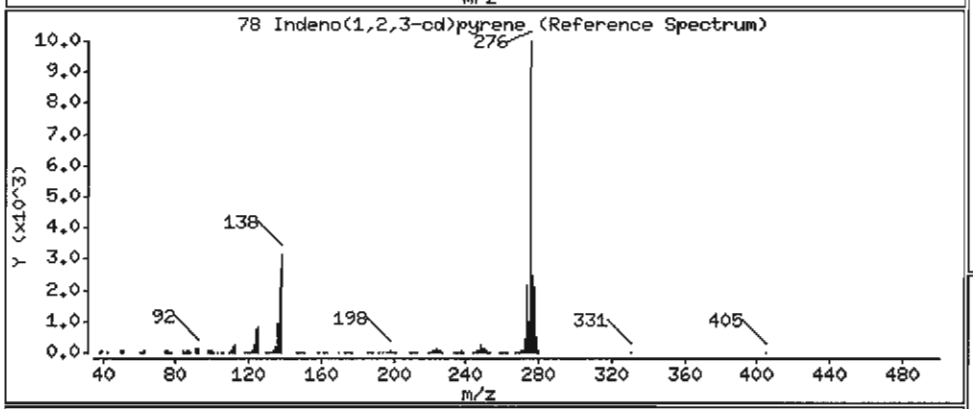
Column diameter: 0.32

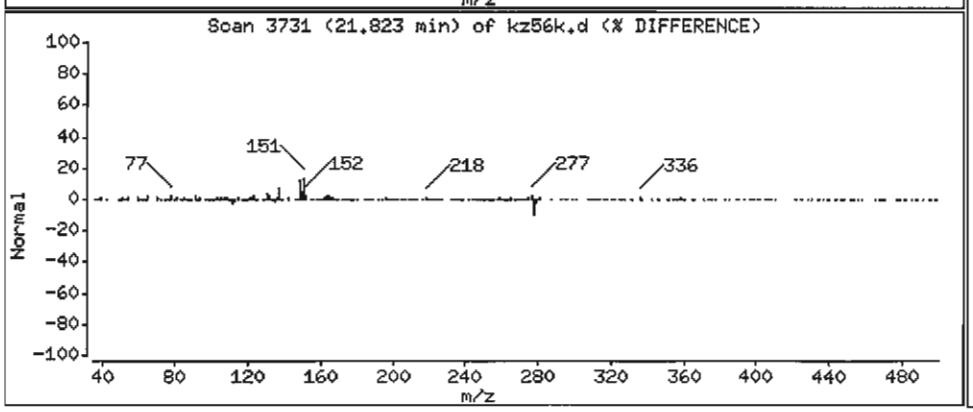
78 Indeno(1,2,3-cd)pyrene

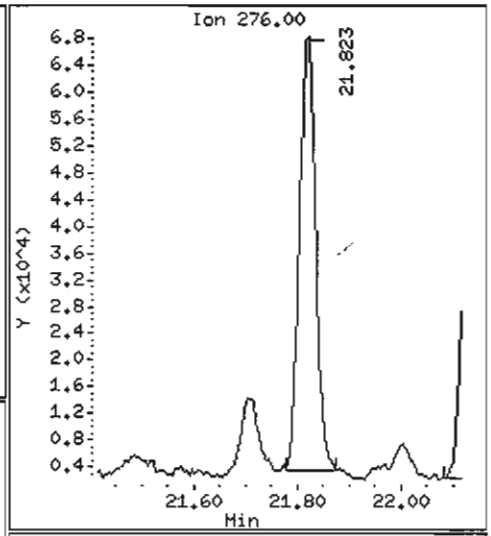
Concentration: 870.9 ug/kg

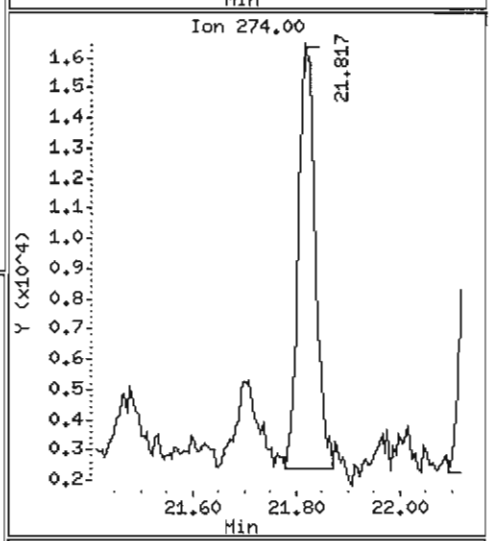


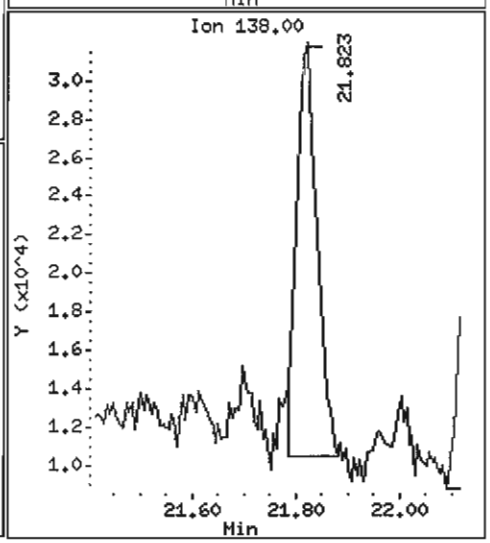












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

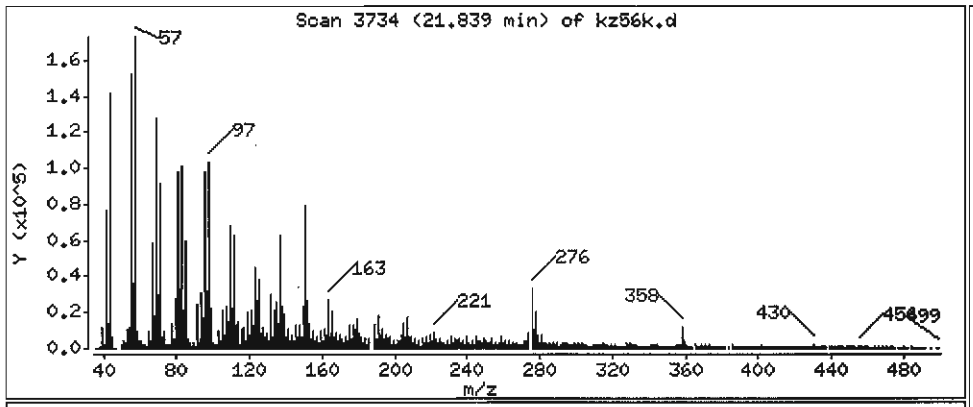
Operator: LJR/VTS

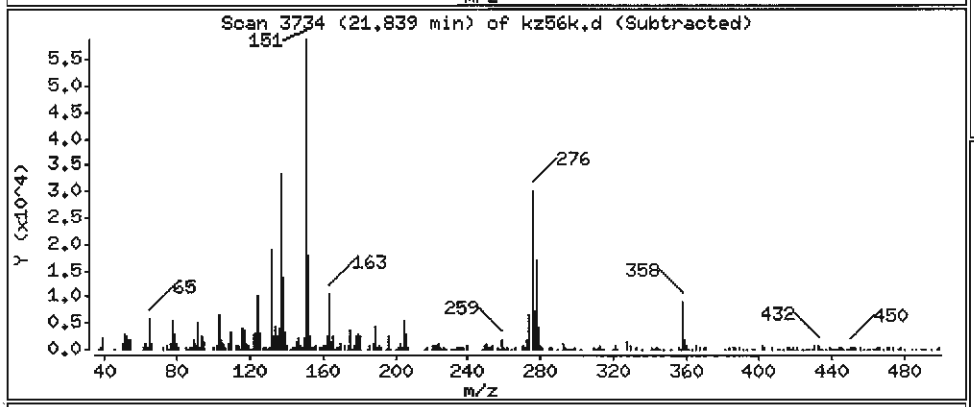
Column phase: ZB-5

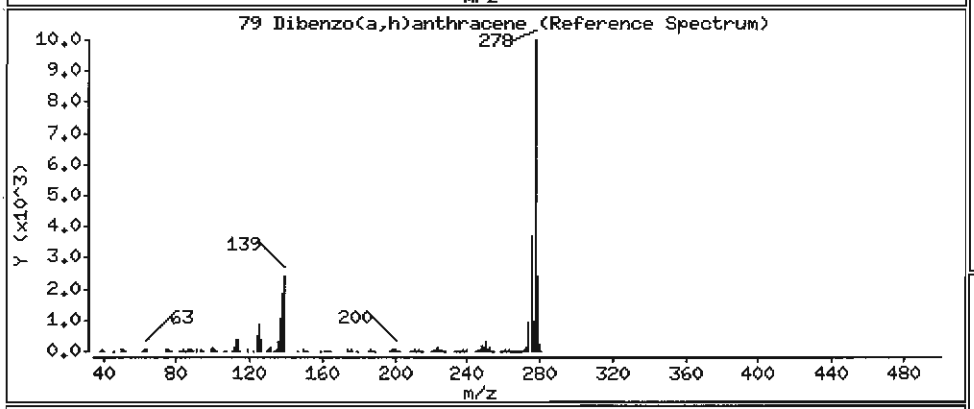
Column diameter: 0.32

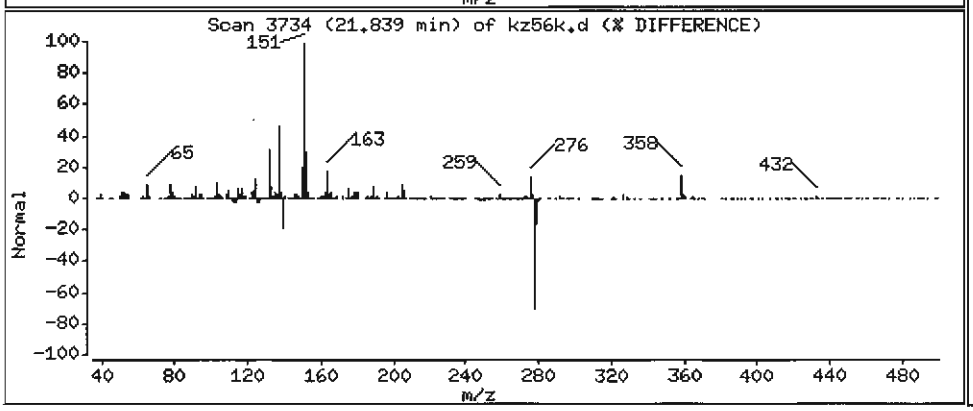
79 Dibenzo(a,h)anthracene

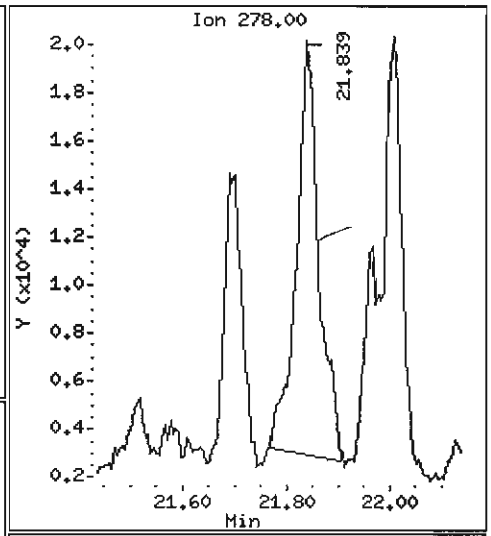
Concentration: 390.2 ug/kg

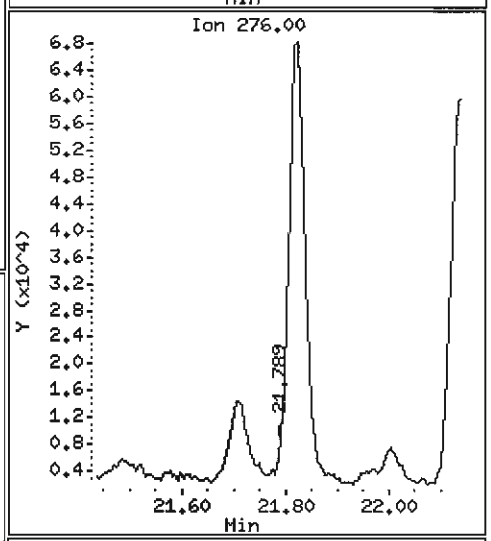


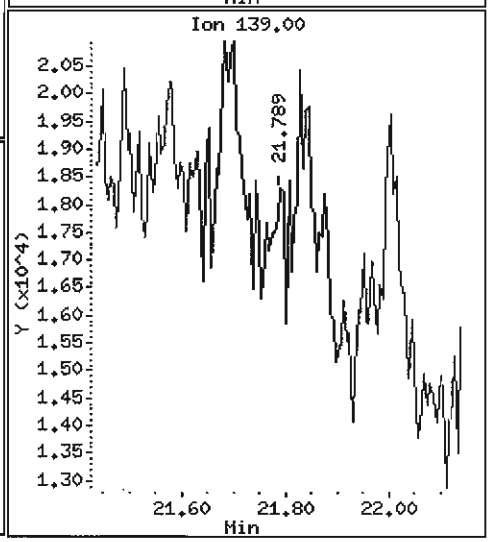












Data File: /chem1/nt6.i/20070529.b/kz56k.d

Date : 29-MAY-2007 13:12

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,3

Volume Injected (uL): 1.0

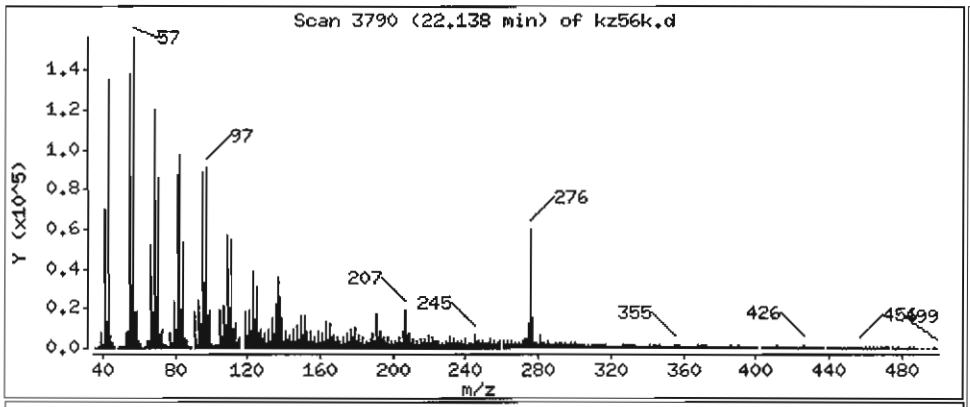
Operator: LJR/VTS

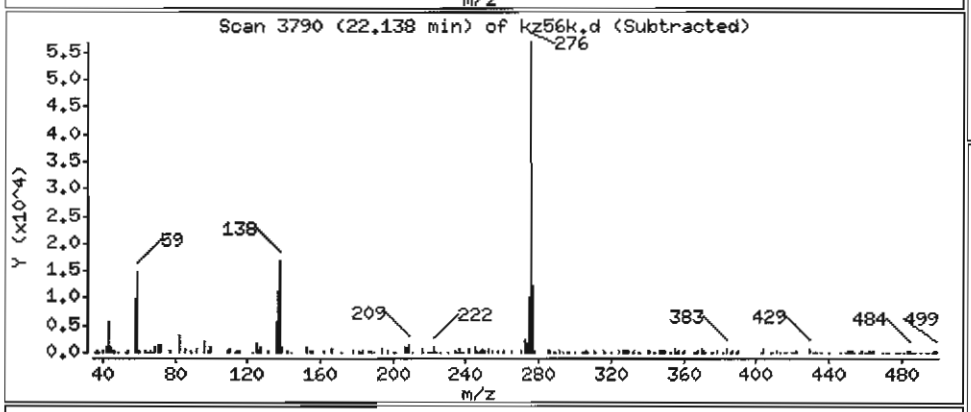
Column phase: ZB-5

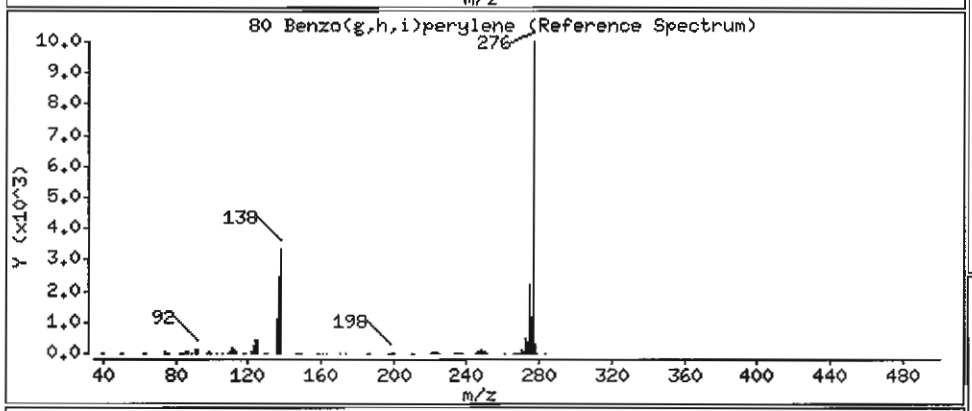
Column diameter: 0.32

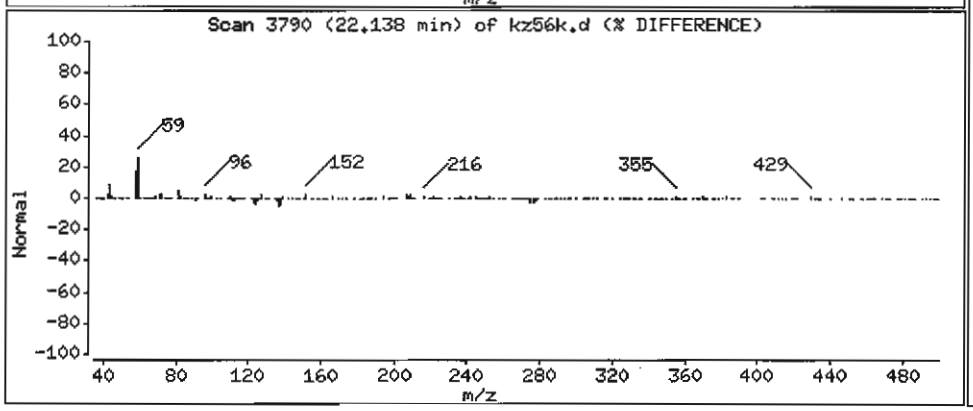
80 Benzo(g,h,i)perylene

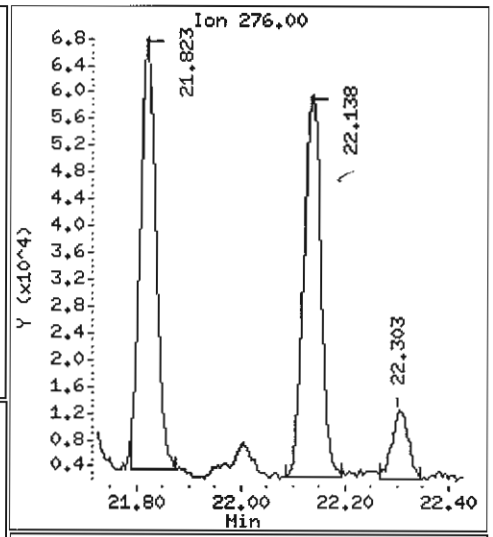
Concentration: 902.0 ug/kg

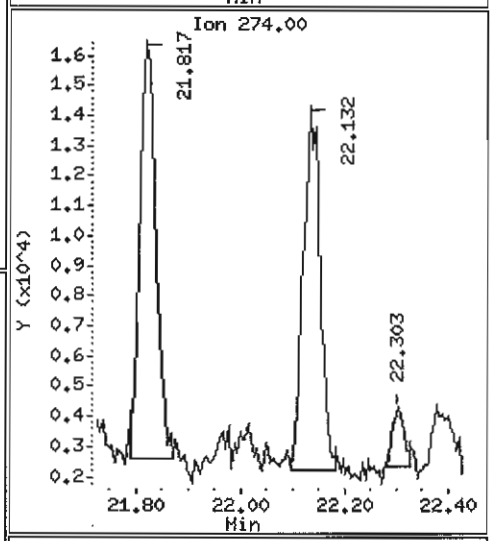


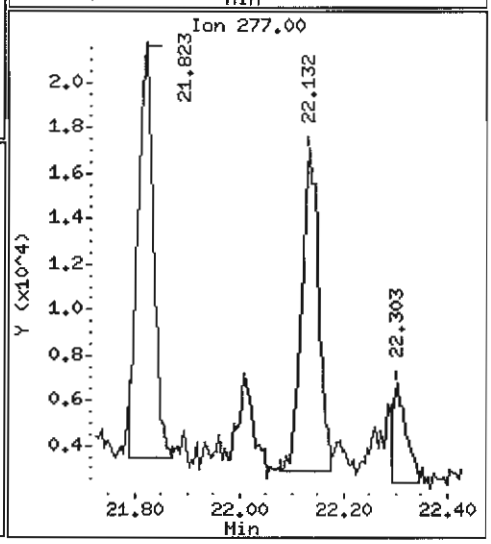




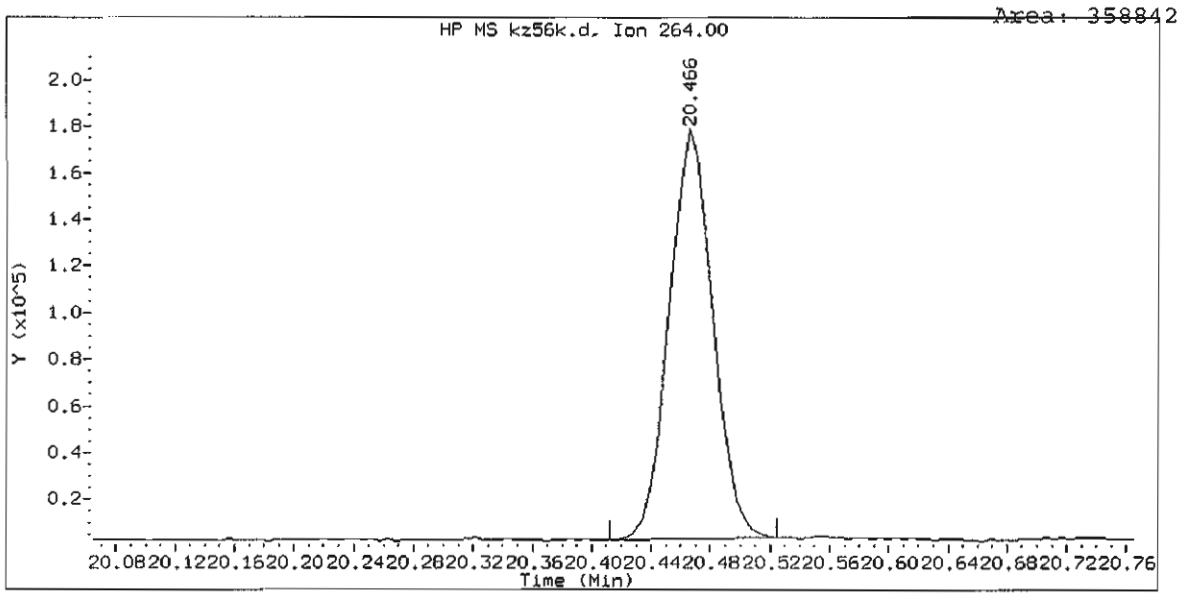


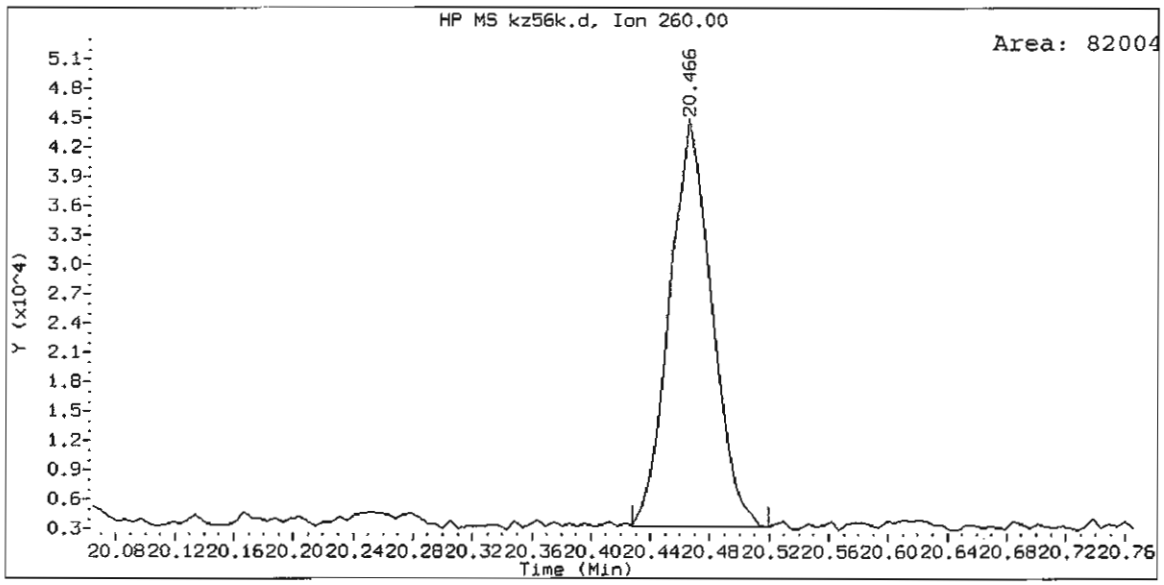


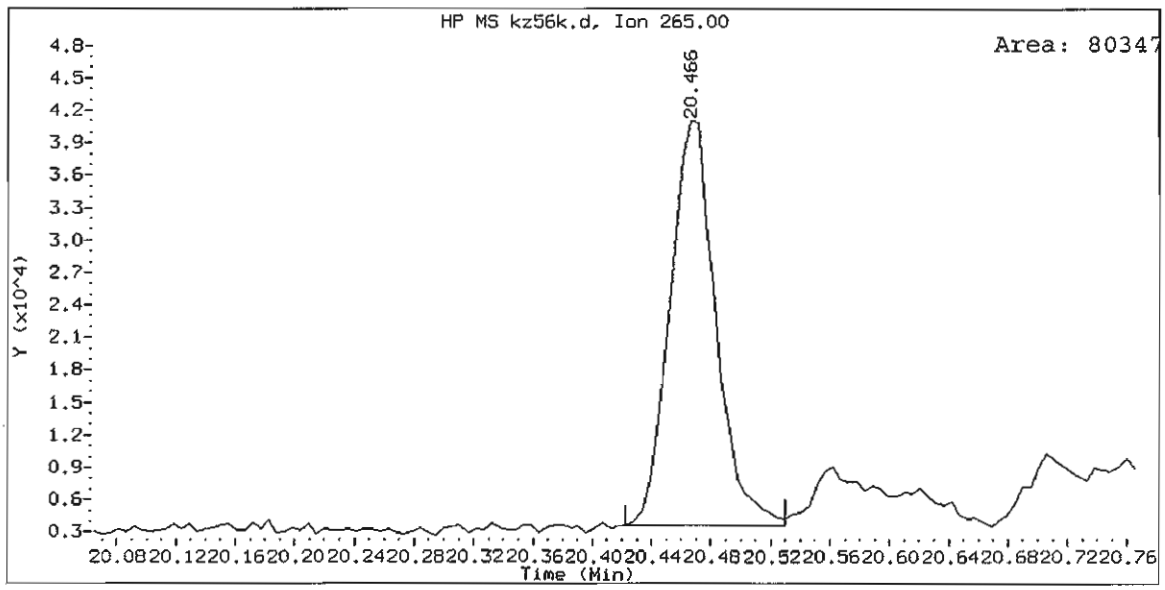




KZ56K, /chem1/nt6.i/20070529.b/kz56k.d
Perylene-d12 Amount: 20.00







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC02-S
DILUTION

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 17:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 17.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 60.5%
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	290	150 J
91-57-6	2-Methylnaphthalene	290	< 290 U
208-96-8	Acenaphthylene	290	< 290 U
83-32-9	Acenaphthene	290	< 290 U
132-64-9	Dibenzofuran	290	< 290 U
86-73-7	Fluorene	290	180 J
85-01-8	Phenanthrene	290	2,600
120-12-7	Anthracene	290	430
206-44-0	Fluoranthene	290	6,100
129-00-0	Pyrene	290	4,800
56-55-3	Benzo(a)anthracene	290	2,000
117-81-7	bis(2-Ethylhexyl)phthalate	290	9,500
218-01-9	Chrysene	290	3,100
205-99-2	Benzo(b)fluoranthene	290	3,800
207-08-9	Benzo(k)fluoranthene	290	3,200
50-32-8	Benzo(a)pyrene	290	2,300
193-39-5	Indeno(1,2,3-cd)pyrene	290	860
53-70-3	Dibenz(a,h)anthracene	290	230 J
191-24-2	Benzo(g,h,i)perylene	290	910

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.2%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	68.8%	d4-1,2-Dichlorobenzene	62.6%
d5-Phenol	64.8%	2-Fluorophenol	55.9%
2,4,6-Tribromophenol	70.5%	d4-2-Chlorophenol	64.3%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56kdl.d
Lab Smp Id: KZ56K Client Smp ID: Y3-RC02-S
Inj Date : 29-MAY-2007 17:06
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56K,5
Misc Info : 07-9557
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 15
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/30/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	44.00000	Weight of sample extracted (g)
M	60.50000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.928	4.903	(0.724)	82769	4.18634	1204
$ 2 Phenol-d5	99	6.461	6.447	(0.949)	112662	4.85649	1397
3 Phenol	94	6.477	6.468	(0.951)	12934	0.50788 LDL	146.1
$ 5 2-Chlorophenol-d4	132	6.525	6.521	(0.958)	77243	4.81554	1385
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.808	6.805	(1.000)	217465	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.102	7.093	(1.043)	30738	3.12377	901.5
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.727	7.729	(0.876)	61582	3.35961	966.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.822	8.819	(1.000)	770336	20.0000	
	28 Naphthalene	128	8.854	8.851	(1.004)	24055	0.52719 LDL	151.7
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.623	10.619	(0.911)	88941	3.30200	949.9
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.659	11.655	(1.000)	399100	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.519	12.515	(1.074)	16329	0.61037 LDL	175.6
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.947	12.937	(1.110)	21510	5.29390	1523
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.855	13.840	(0.989)	2651	0.60798 LDL	174.9
*	59 Phenanthrene-d10	188	14.010	14.001	(1.000)	562745	20.0000	
	60 Phenanthrene	178	14.047	14.038	(1.003)	338550	9.01462	2593
	61 Anthracene	178	14.116	14.107	(1.008)	58296	1.50230	432.2
	62 Carbazole	167	14.421	14.412	(1.029)	71634	2.14528	617.2
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.976	15.956	(1.140)	751131	21.0802	6065
65 Pyrene	202	16.323	16.303	(0.892)	655480	16.5820	4770
$ 66 Terphenyl-d14	244	16.665	16.650	(0.910)	86020	3.43633	988.6
67 Butylbenzylphthalate	149	17.573	17.558	(0.960)	28745	1.54659	444.9(M)
68 Benzo(a)anthracene	228	18.278	18.253	(0.999)	253729	7.12984	2051
* 69 Chrysene-d12	240	18.305	18.280	(1.000)	476405	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.342	18.322	(1.002)	390921	10.8590	3124
72 bis(2-Ethylhexyl)phthalate	149	18.599	18.573	(0.952)	847682	33.0952	9521(M)
* 134 Di-n-octylphthalate-d4	153	19.528	19.503	(1.000)	747808	20.0000	
73 Di-n-octylphthalate	149	19.544	19.514	(1.001)	57158	1.28662	370.1(M)
74 Benzo(b)fluoranthene	252	19.934	19.898	(0.975)	301109	13.1293	3777(M)
75 Benzo(k)fluoranthene	252	19.945	19.930	(0.975)	245940	11.1631	3211(M)
76 Benzo(a)pyrene	252	20.367	20.336	(0.996)	182832	7.96470	2291
* 77 Perylene-d12	264	20.452	20.416	(1.000)	353715	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.804	21.768	(1.066)	81175	2.99105	860.5(M)
79 Dibenzo(a,h)anthracene	278	21.820	21.789	(1.067)	17927	0.79754 LOL	229.4(M)
80 Benzo(g,h,i)perylene	276	22.119	22.078	(1.081)	78367	3.15211	906.8(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	6.370	6.377	(0.936)	31939	0.98196 LOL	282.5(M)
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56kdl.d
Lab Smp Id: KZ56K
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9557

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC02-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	217465	-0.10
27 Naphthalene-d8	775413	387706	1550826	770336	-0.65
42 Acenaphthene-d10	371068	185534	742136	399100	7.55
59 Phenanthrene-d10	554165	277082	1108330	562745	1.55
69 Chrysene-d12	436021	218010	872042	476405	9.26
134 Di-n-octylphthala	773344	386672	1546688	747808	-3.30
77 Perylene-d12	622369	311184	1244738	353715	-43.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.06
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.04
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.03
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.07
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.14
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.13
77 Perylene-d12	20.42	19.92	20.92	20.45	0.18

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56K
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9557

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC02-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	2158	1204	55.82	11-84
$ 2 Phenol-d5	2158	1397	64.75	25-86
$ 5 2-Chlorophenol-d4	2158	1385	64.21	23-91
$ 10 1,2-Dichlorobenzen	1438	901.5	62.68	24-90
$ 18 Nitrobenzene-d5	1438	966.5	67.19	26-88
$ 36 2-Fluorobiphenyl	1438	949.9	66.04	34-91
$ 55 2,4,6-Tribromophen	2158	1523	70.59	25-107
$ 66 Terphenyl-d14	1438	988.6	68.73	22-100

Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Sample Info: KZ56K,5

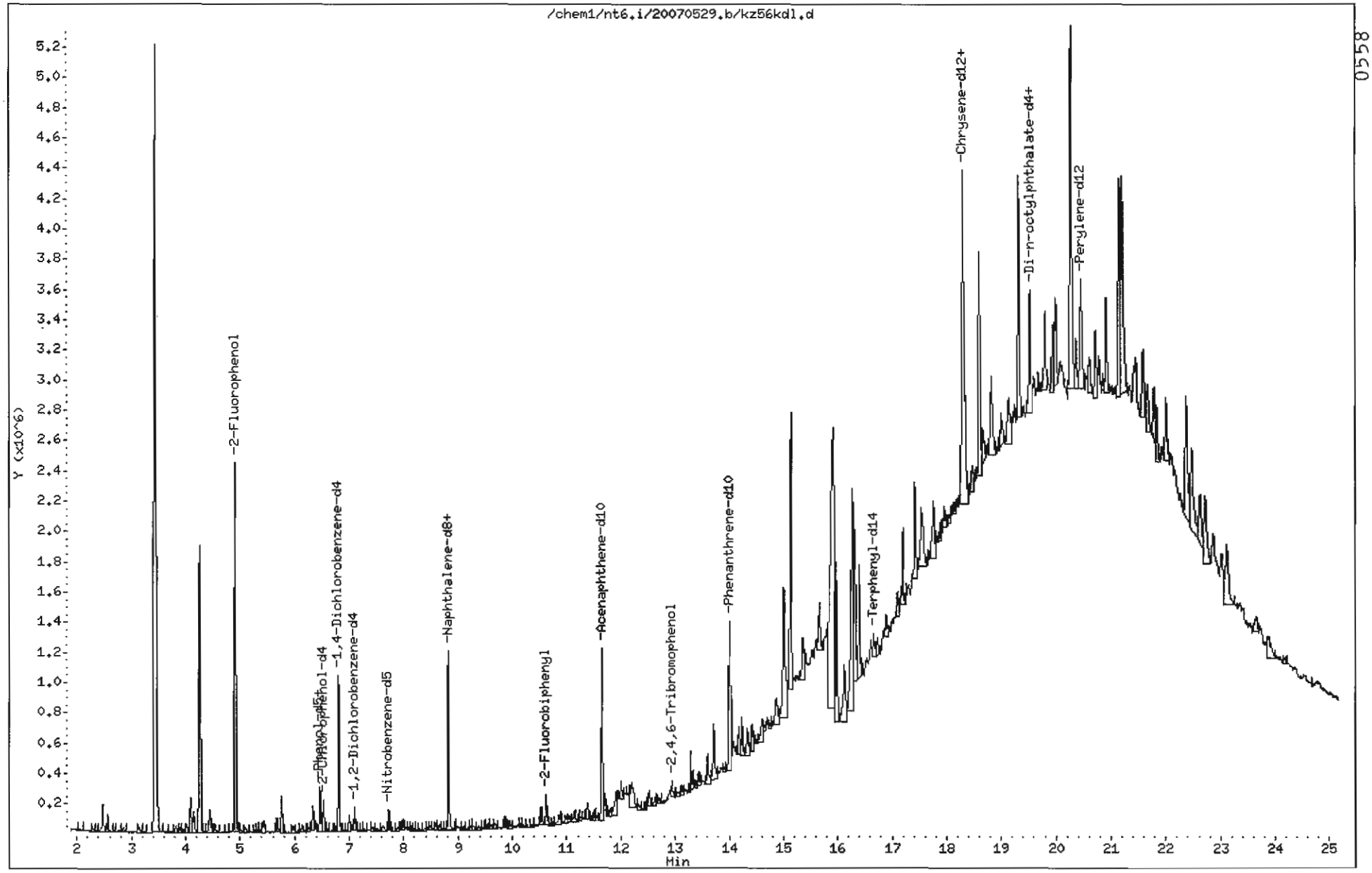
Volume Injected (uL): 1.0

Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32



0558

Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

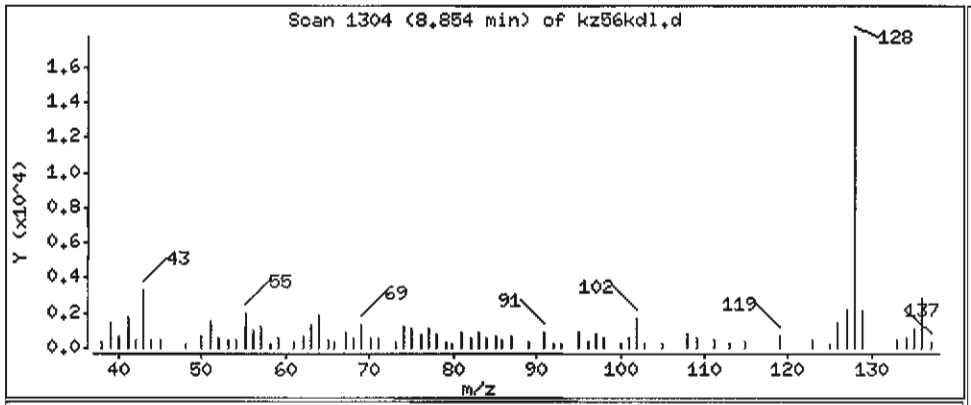
Operator: LJR/VTS

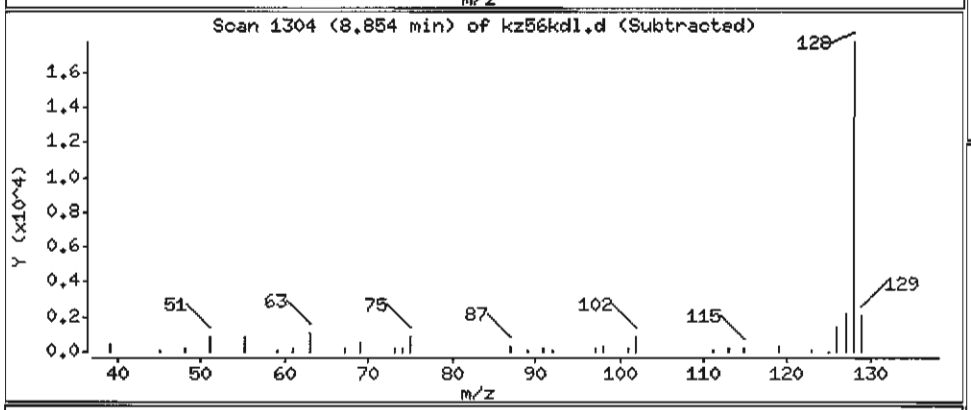
Column phase: ZB-5

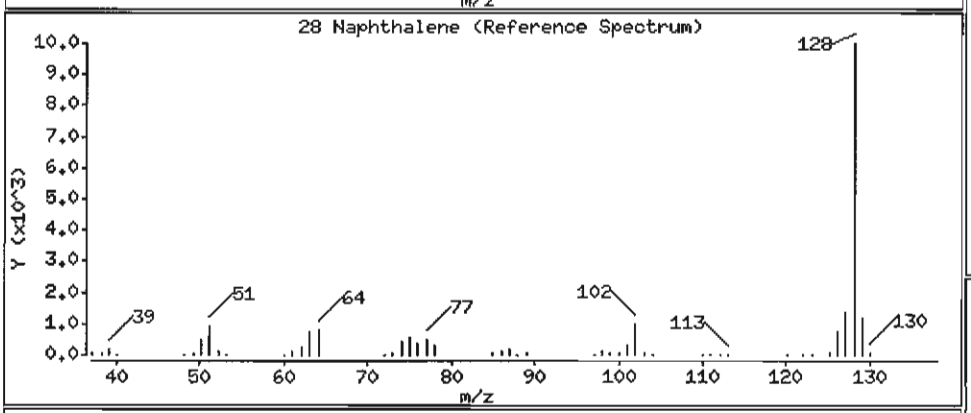
Column diameter: 0.32

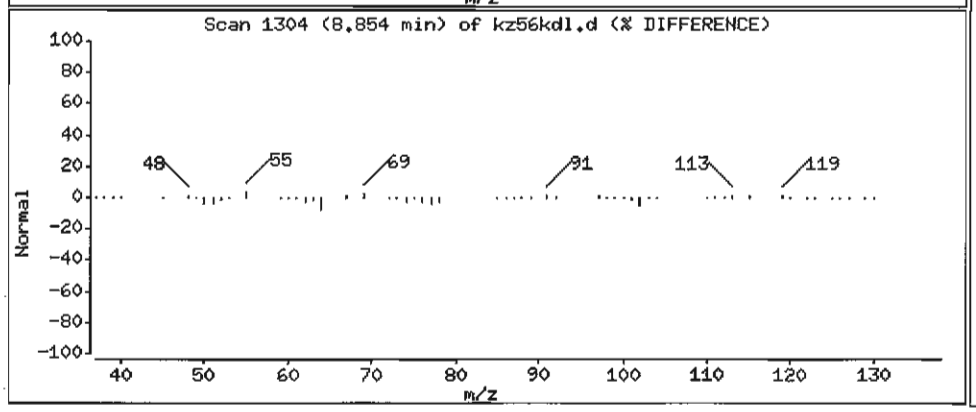
28 Naphthalene

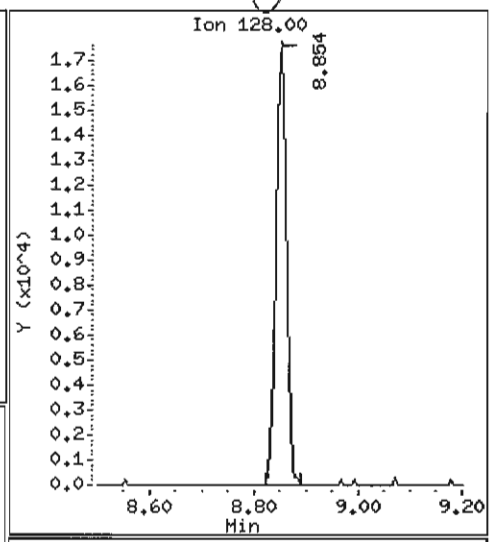
Concentration: 151.7 ug/kg

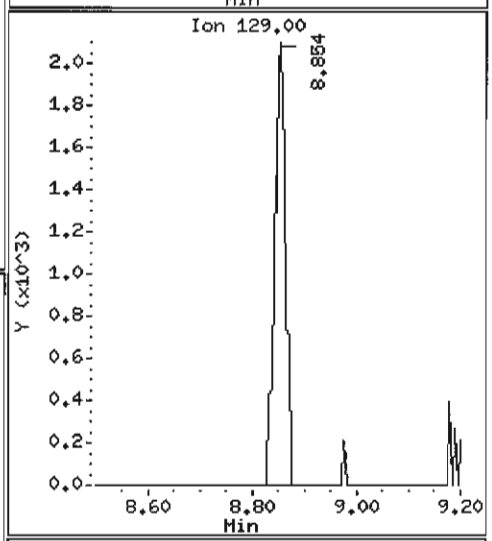


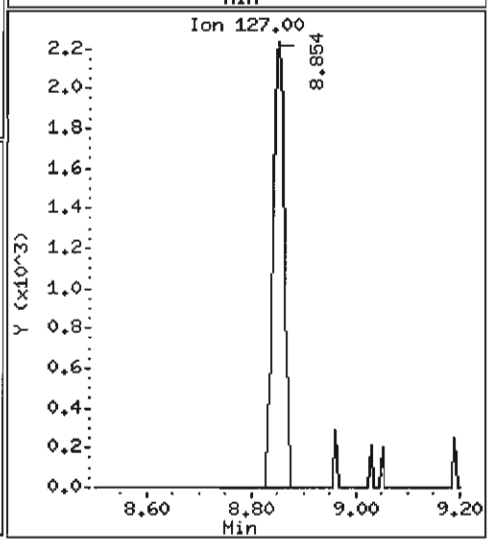












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

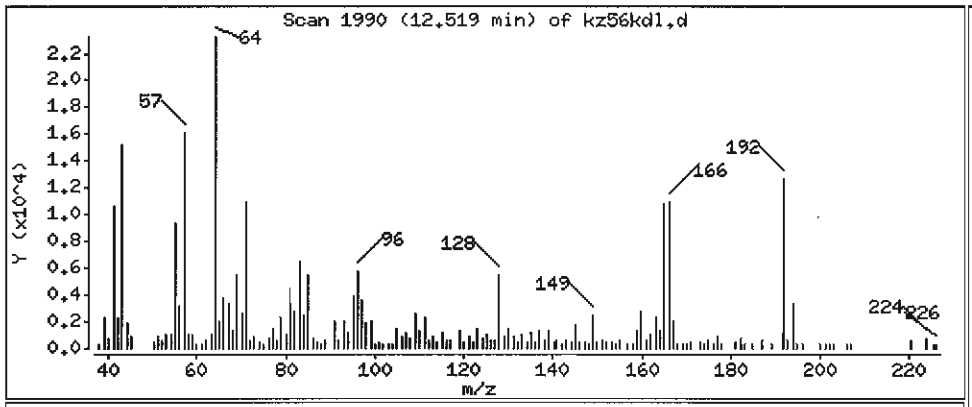
Operator: LJR/VTS

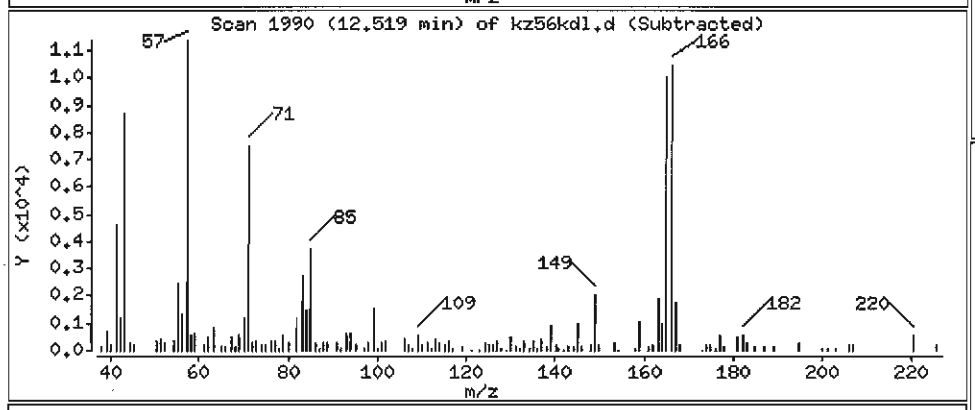
Column phase: ZB-5

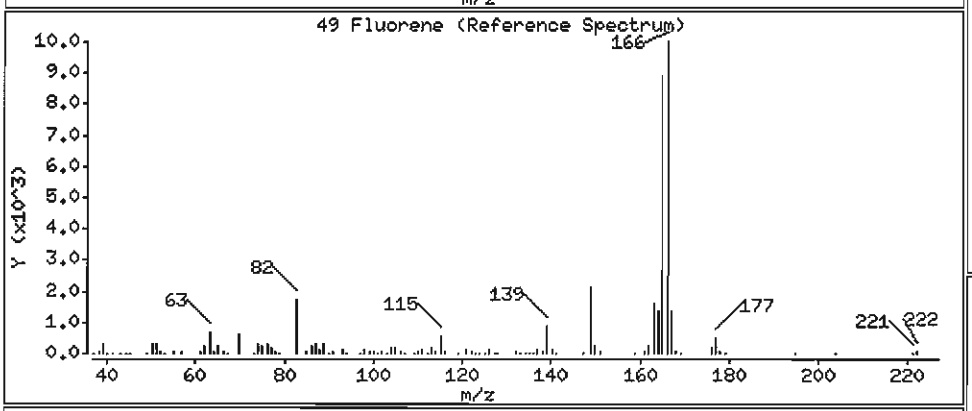
Column diameter: 0.32

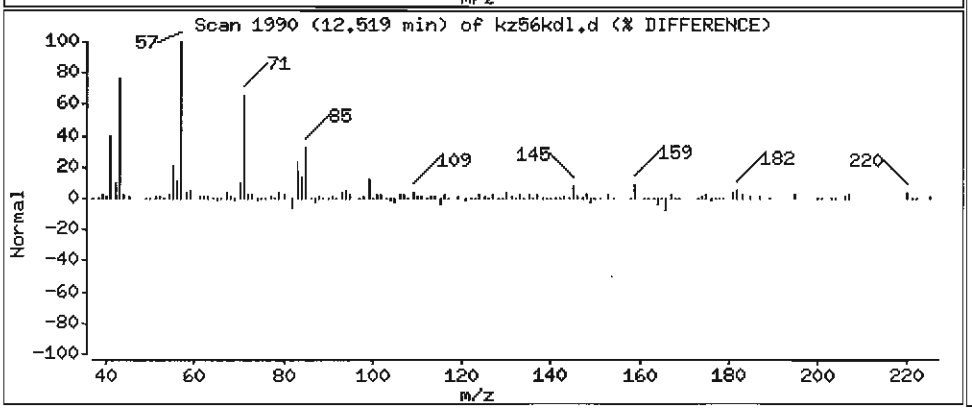
49 Fluorene

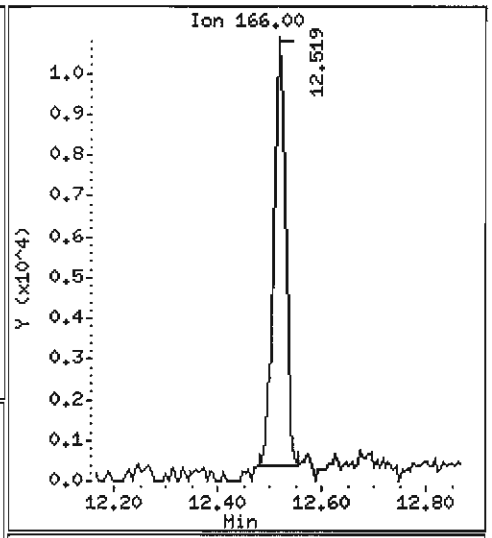
Concentration: 175.6 ug/kg

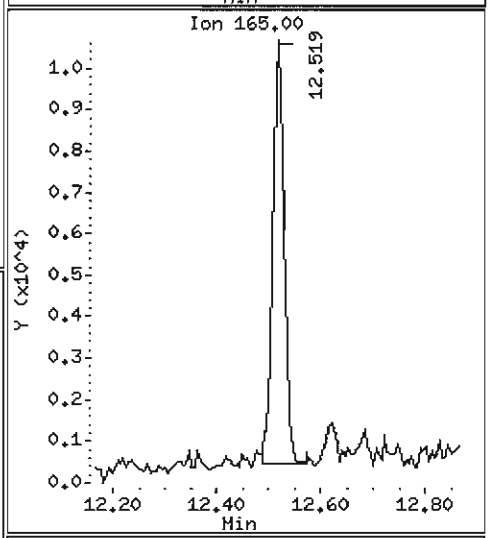


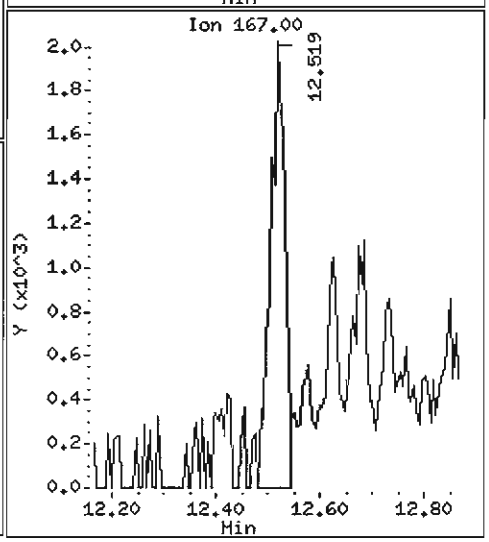












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

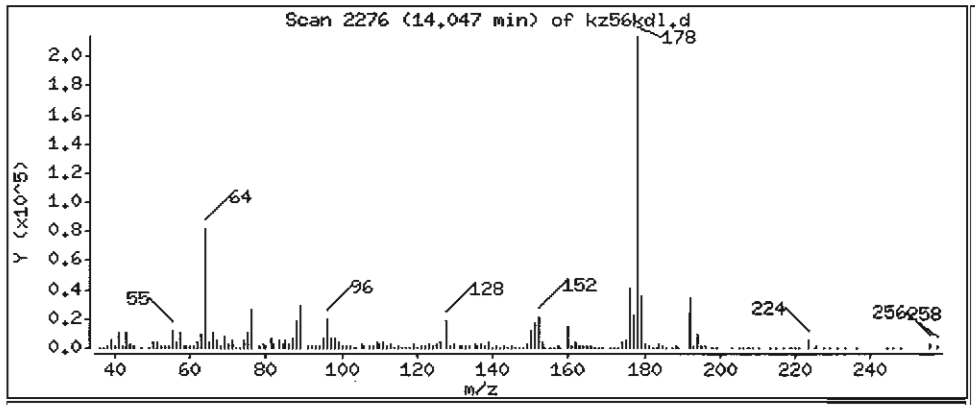
Operator: LJR/VTS

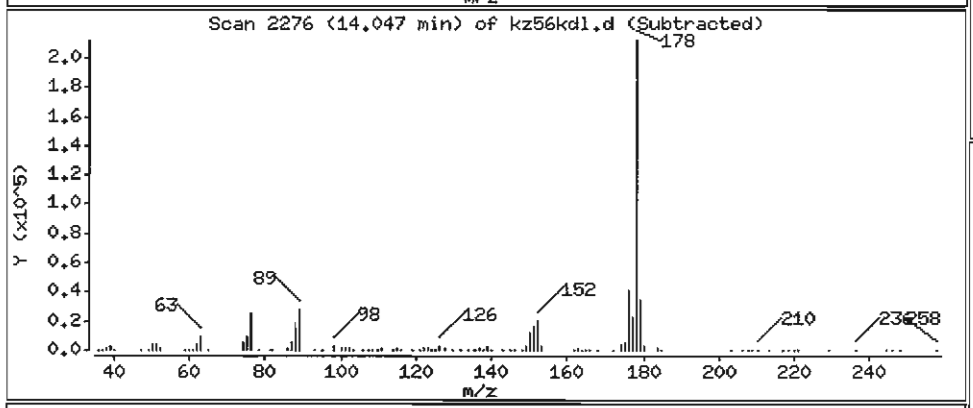
Column phase: ZB-5

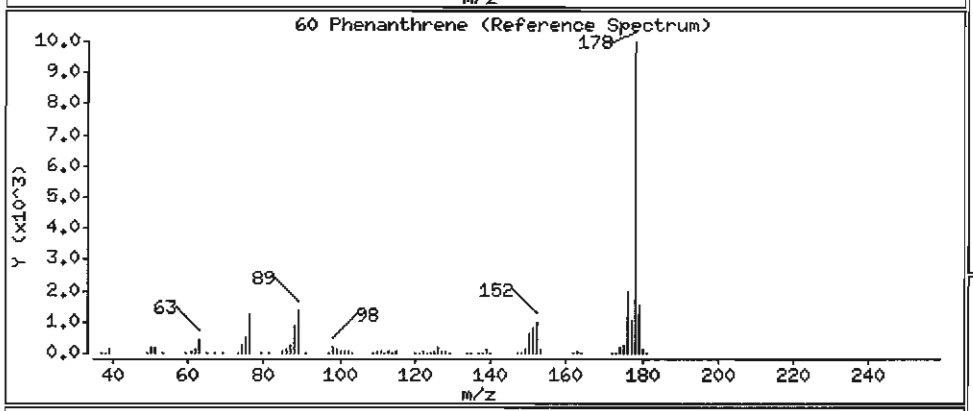
Column diameter: 0.32

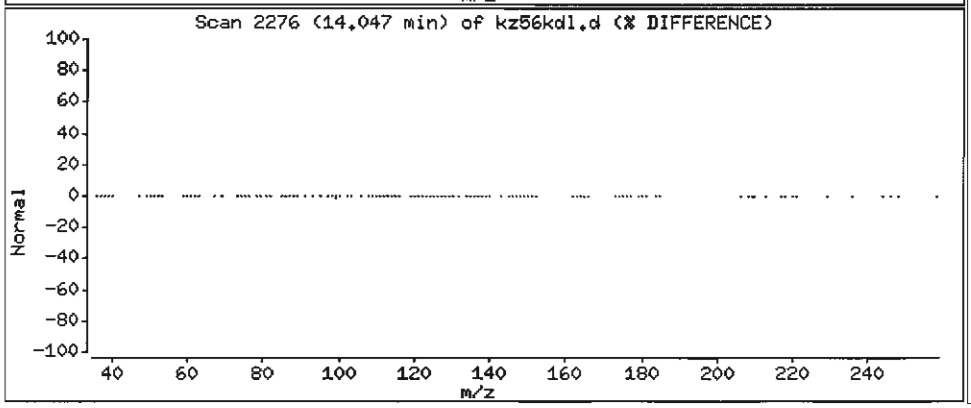
60 Phenanthrene

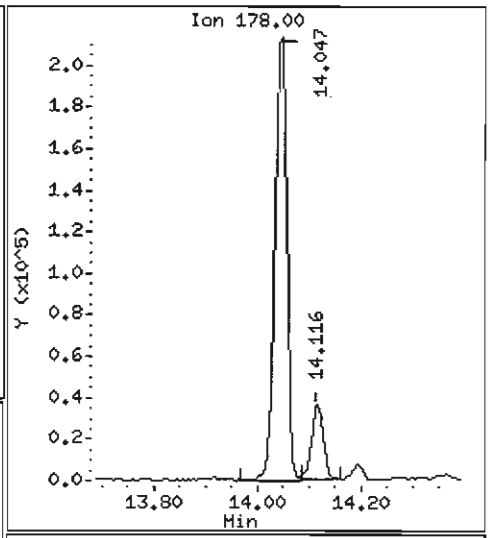
Concentration: 2593 ug/kg

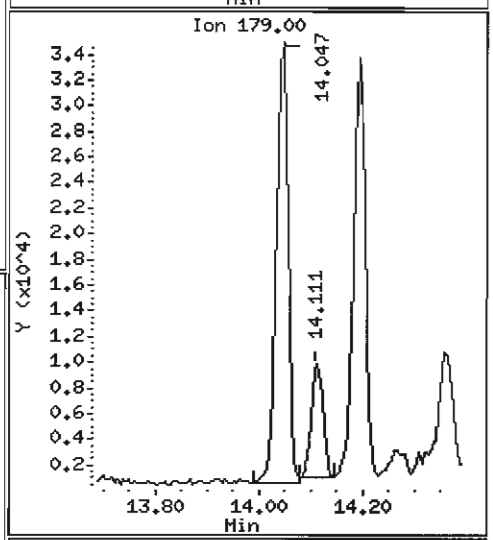


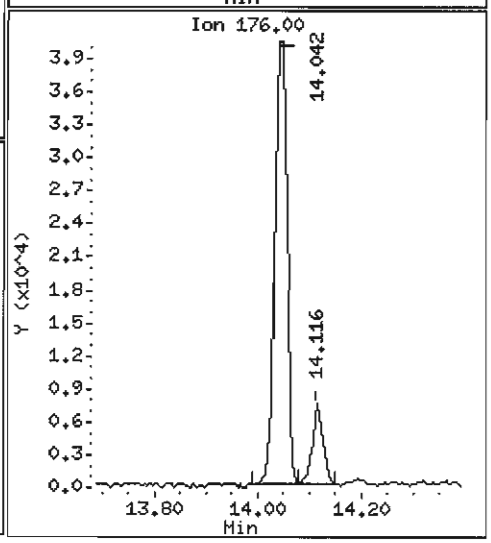












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

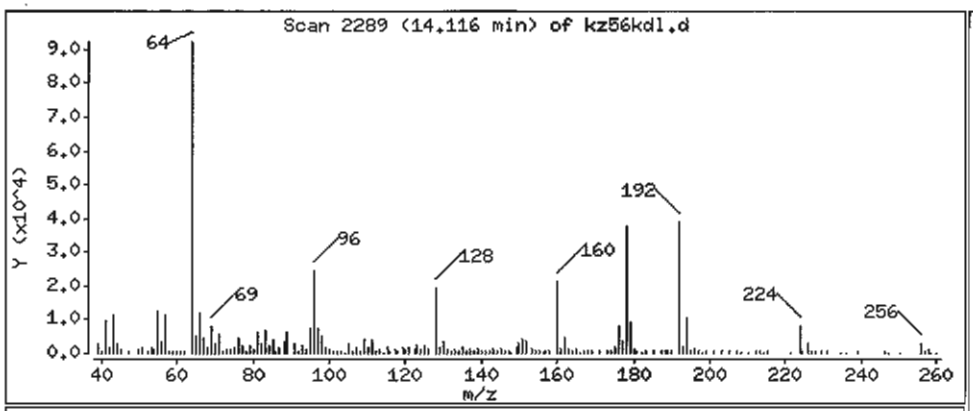
Operator: LJR/VTS

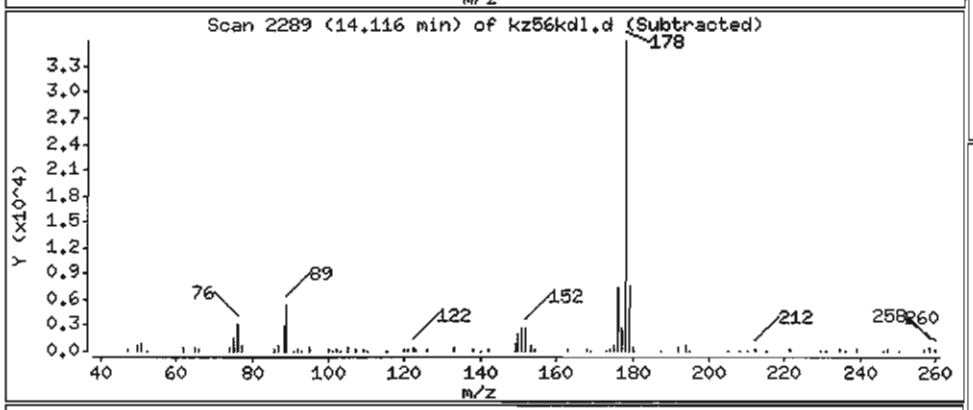
Column phase: ZB-5

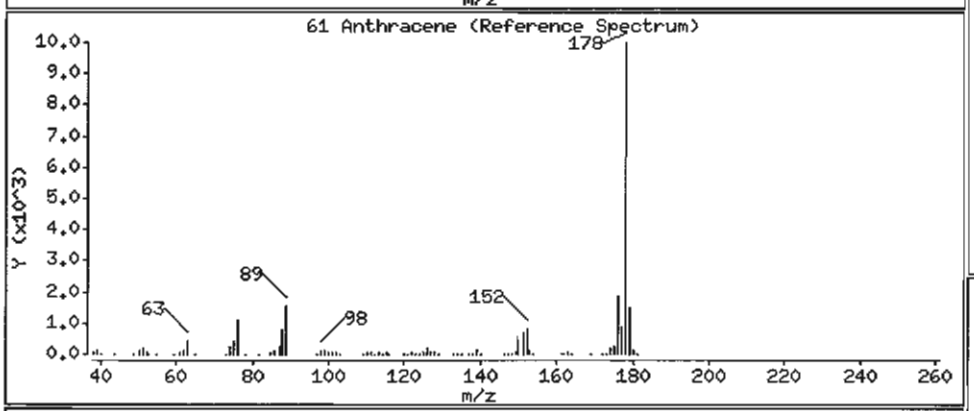
Column diameter: 0.32

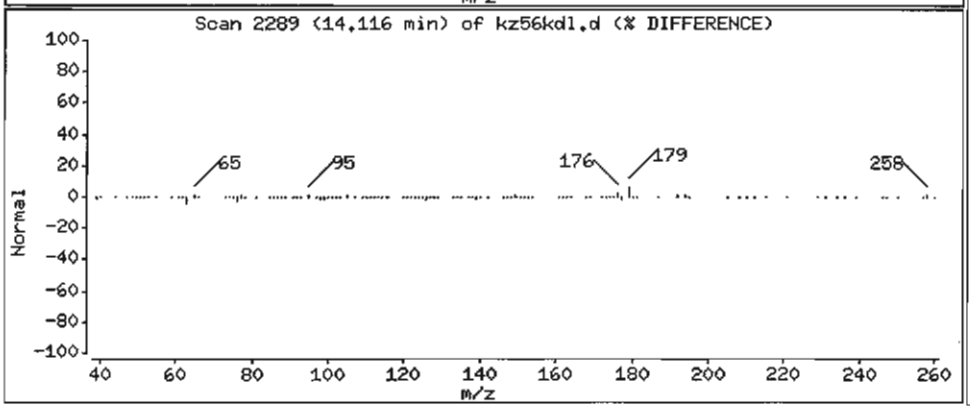
61 Anthracene

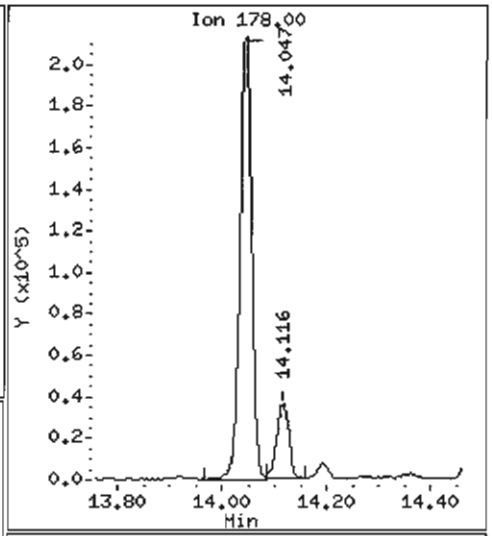
Concentration: 432.2 ug/kg

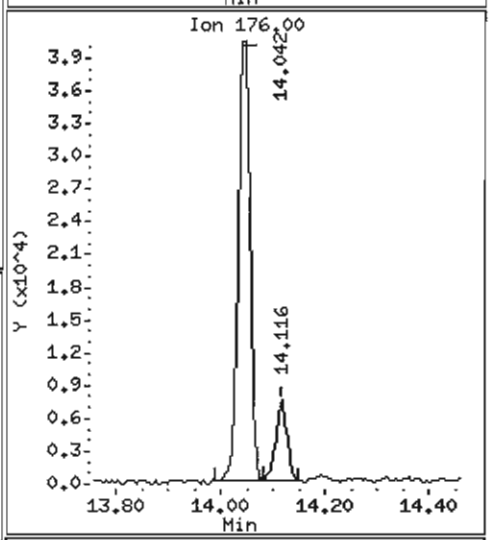


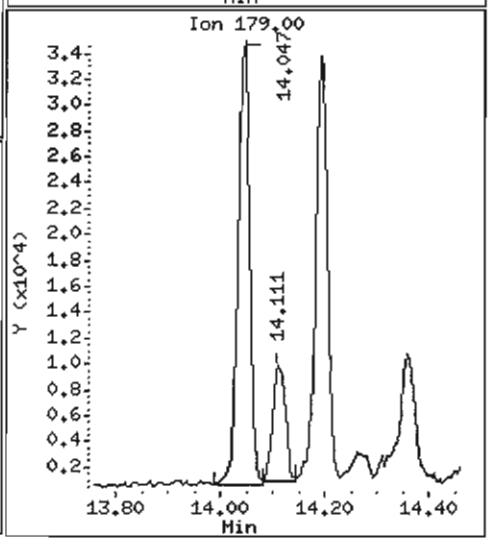












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

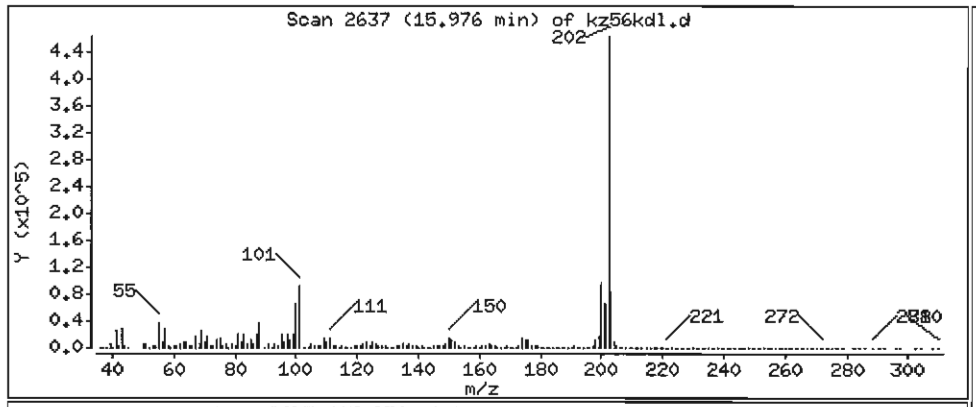
Operator: LJR/VTS

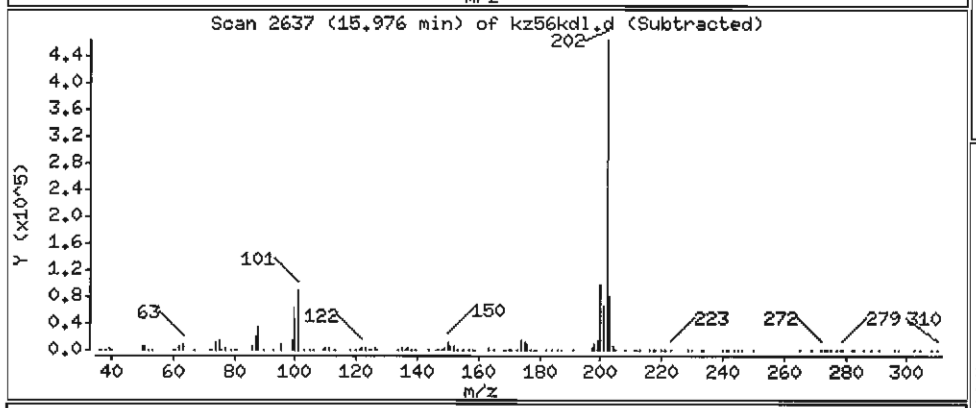
Column phase: ZB-5

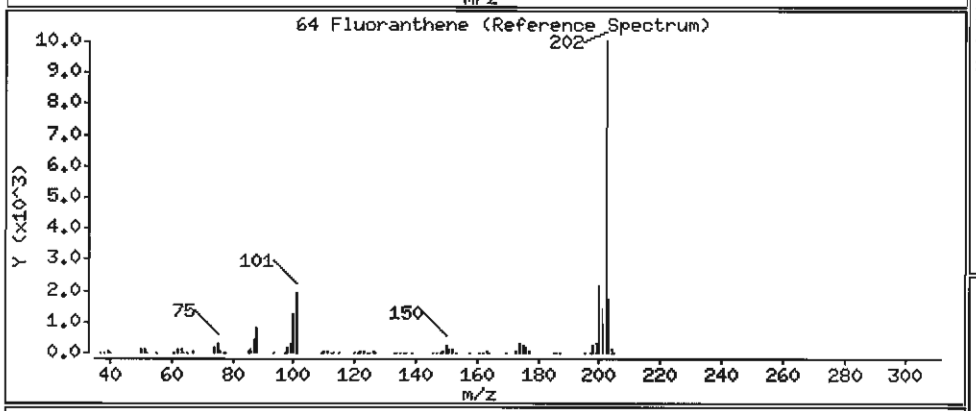
Column diameter: 0.32

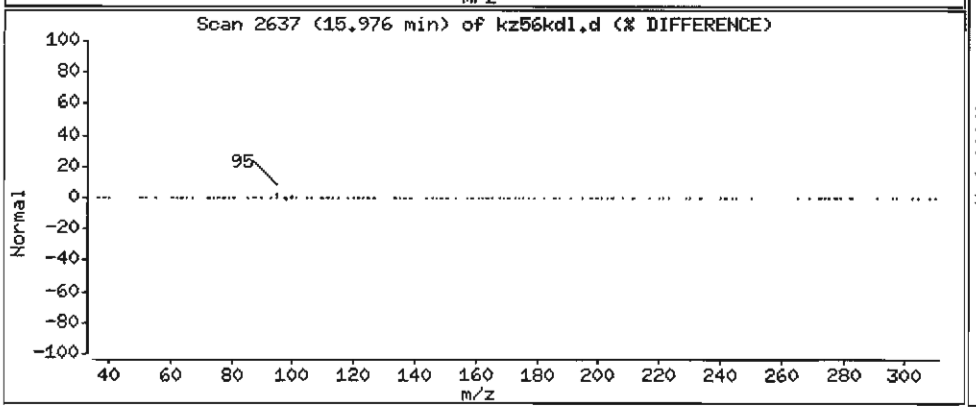
64 Fluoranthene

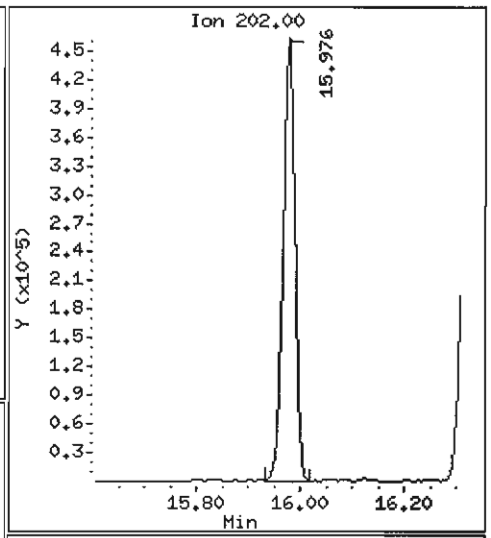
Concentration: 6065 ug/kg

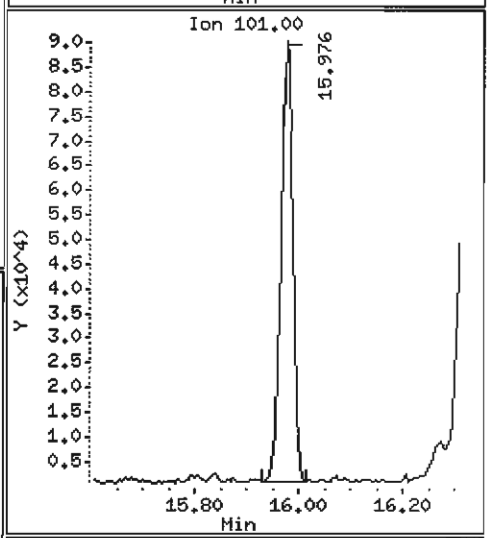


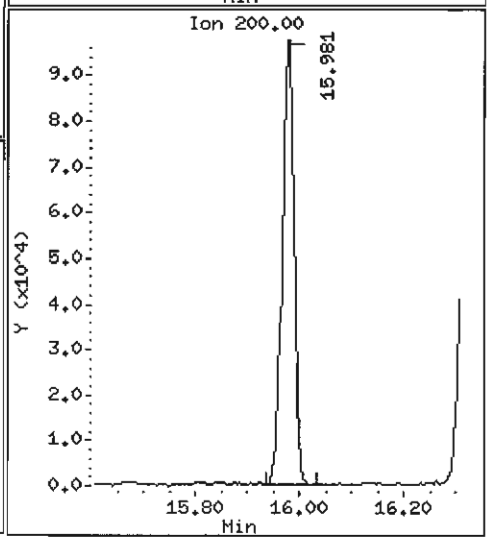












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

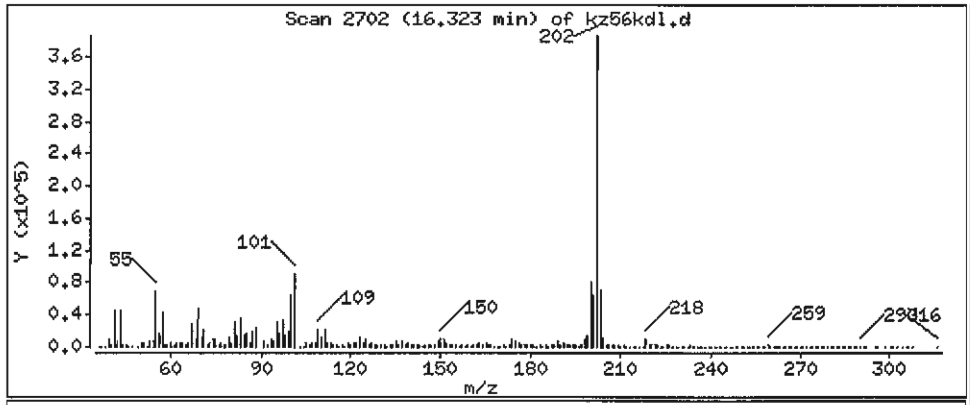
Operator: LJR/VTS

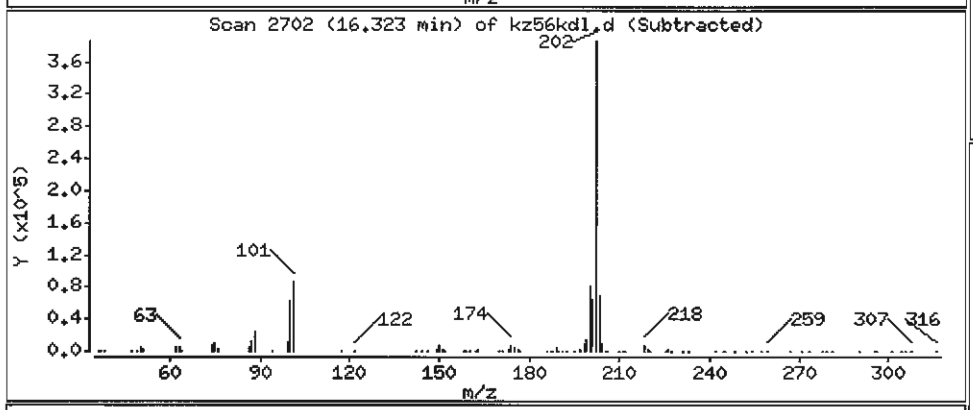
Column phase: ZB-5

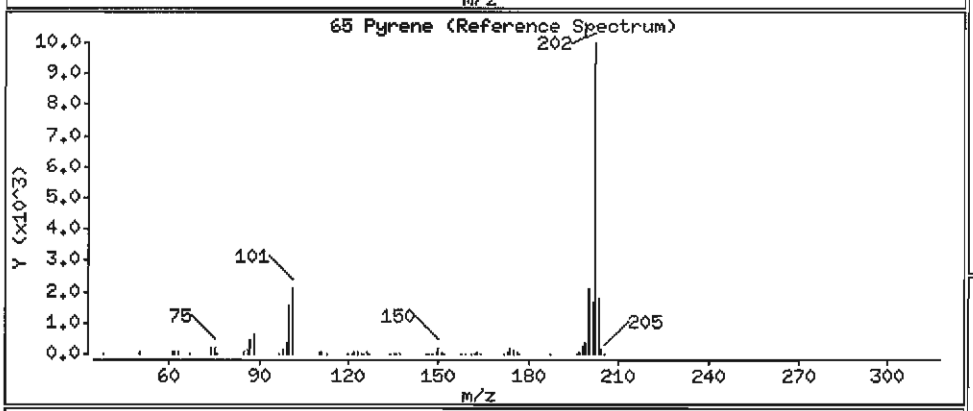
Column diameter: 0.32

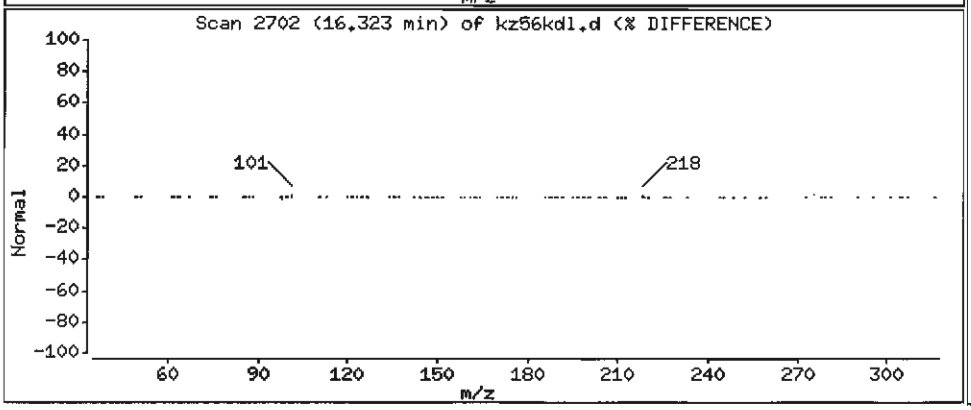
65 Pyrene

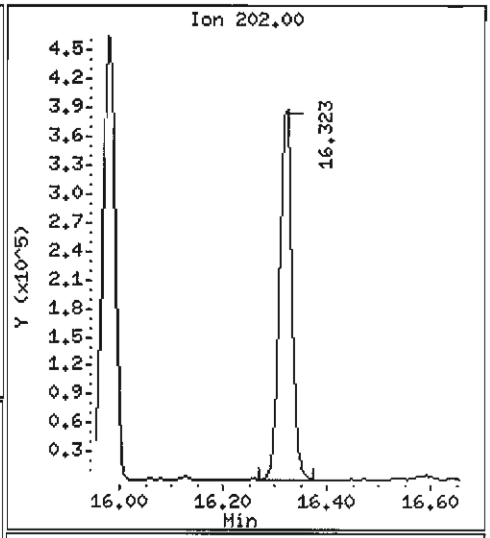
Concentration: 4770 ug/kg

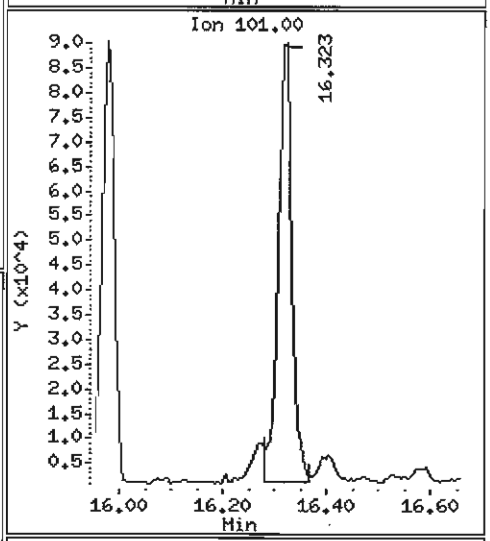


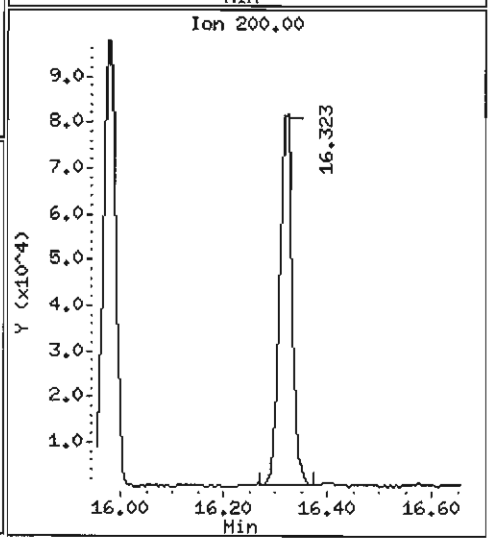












Data File: /chem1/nt6.i/20070529.b/kz56kd1.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

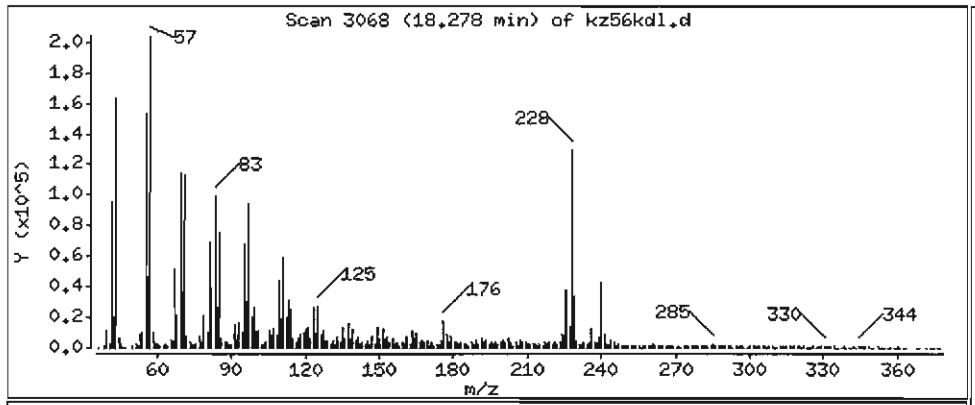
Operator: LJR/VTS

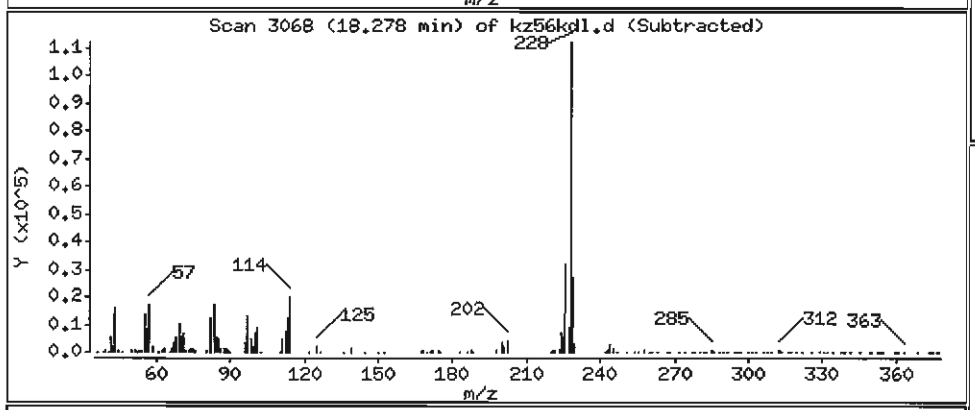
Column phase: ZB-5

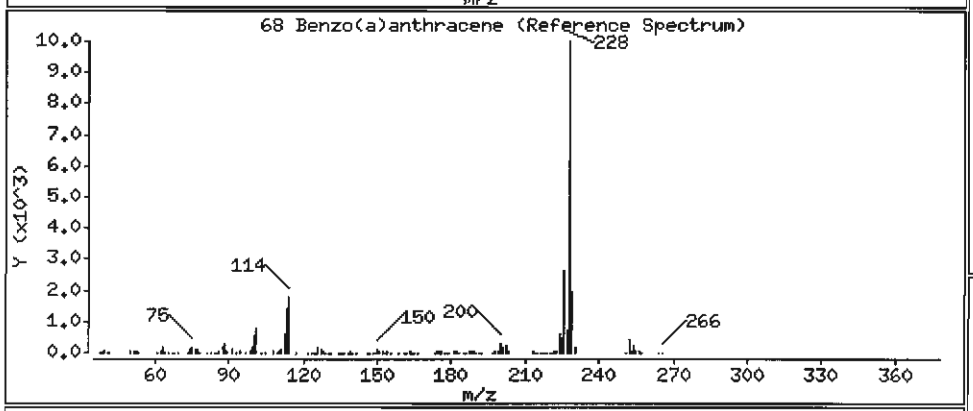
Column diameter: 0.32

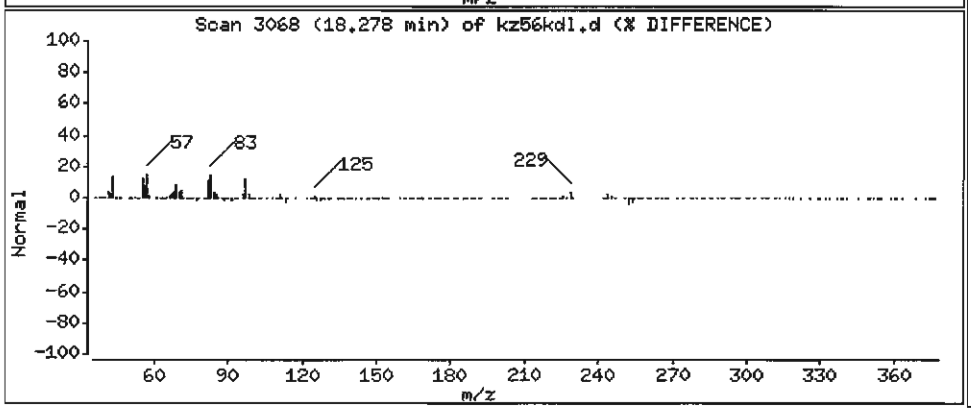
68 Benzo(a)anthracene

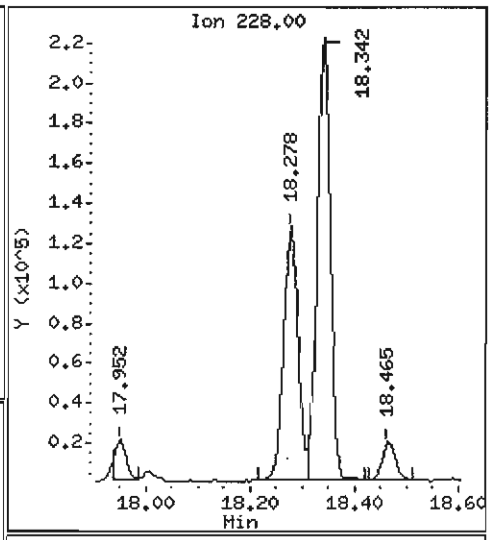
Concentration: 2051 ug/kg

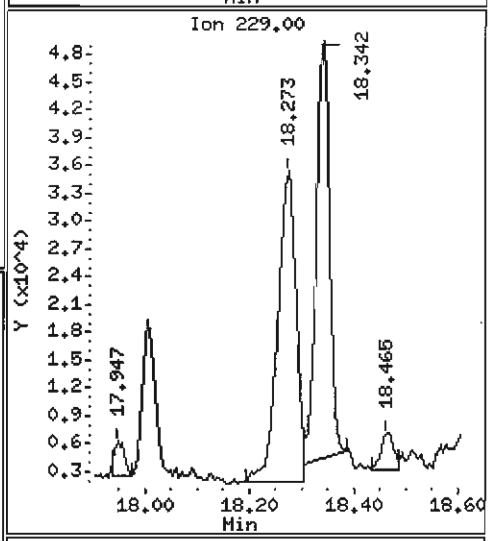


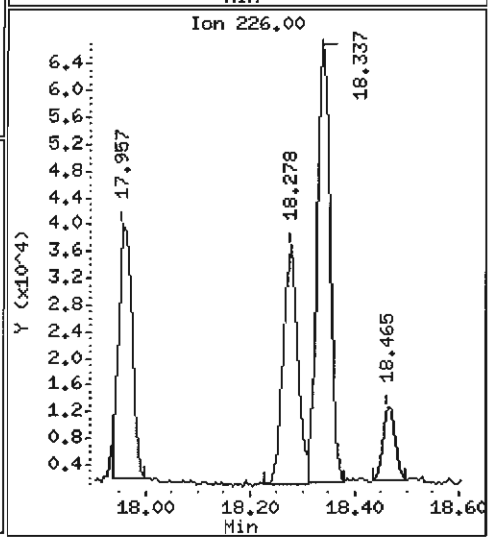












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

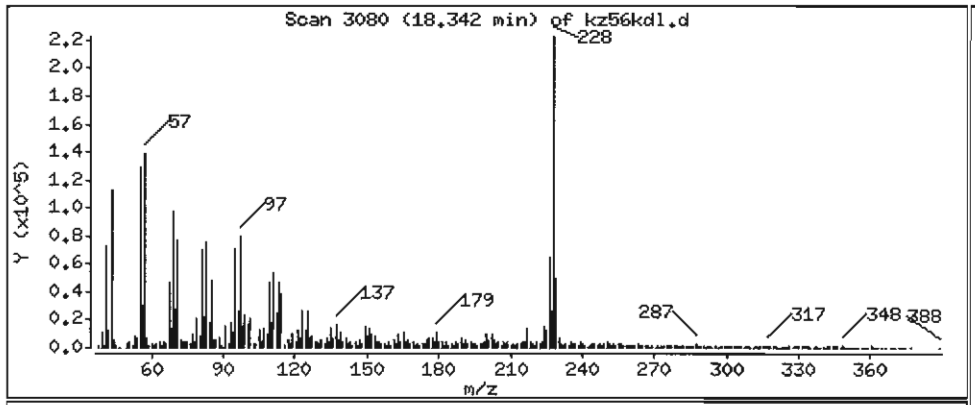
Operator: LJR/VTS

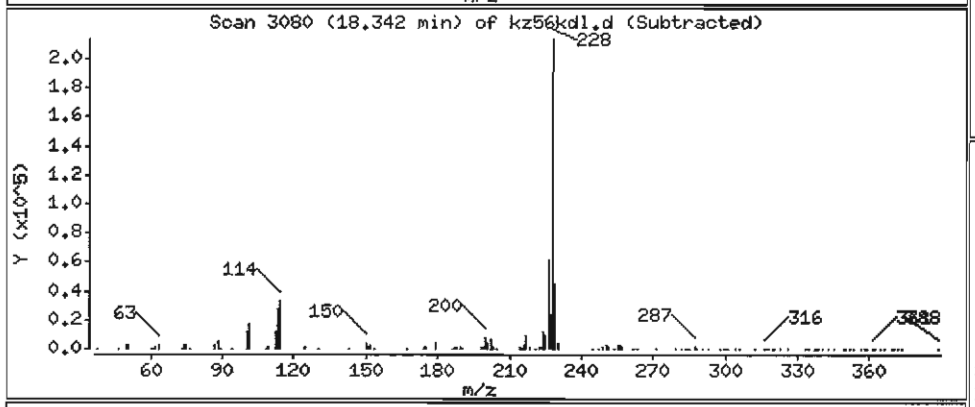
Column phase: ZB-5

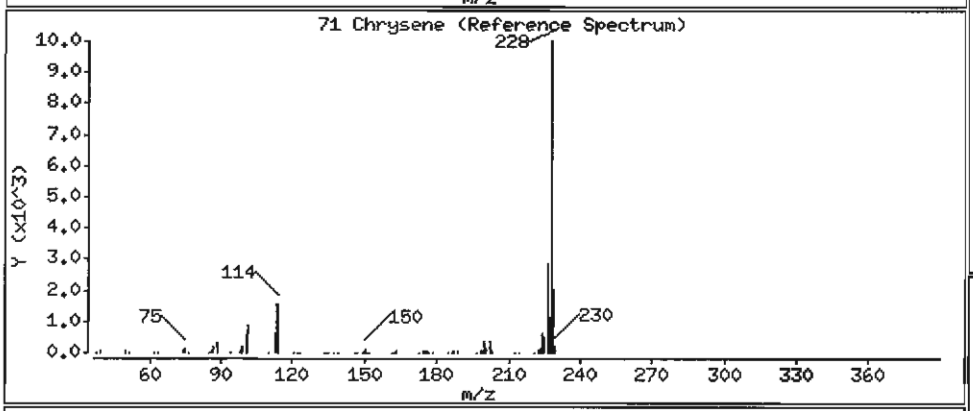
Column diameter: 0.32

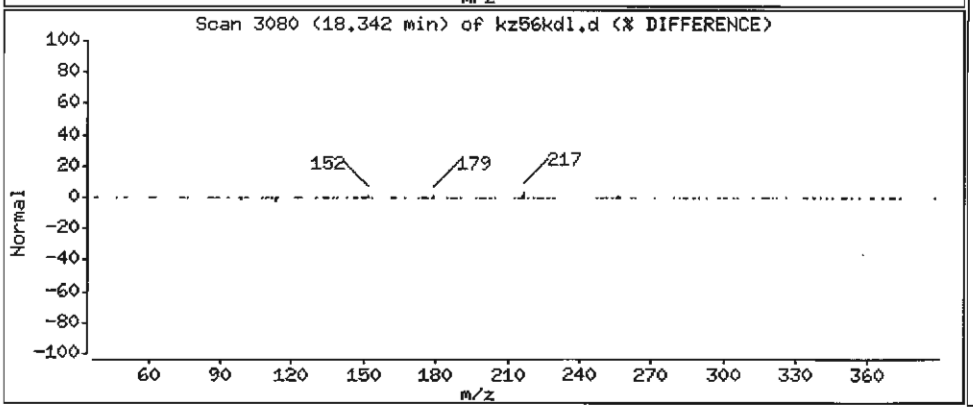
71 Chrysene

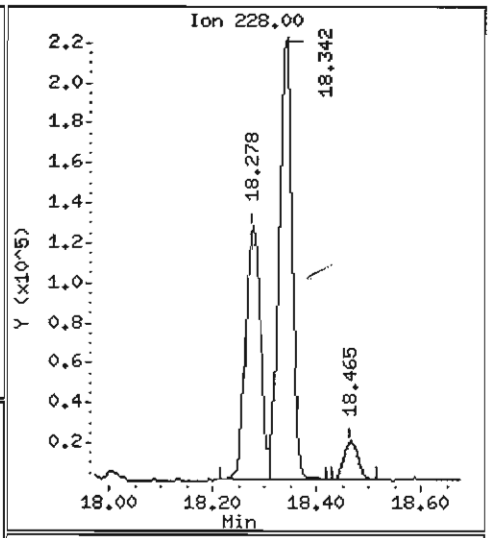
Concentration: 3124 ug/kg

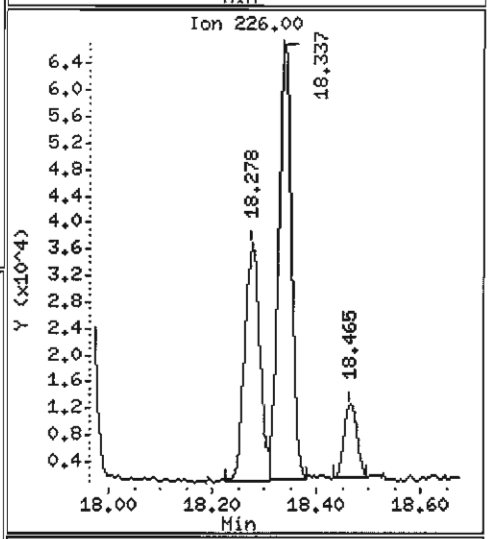


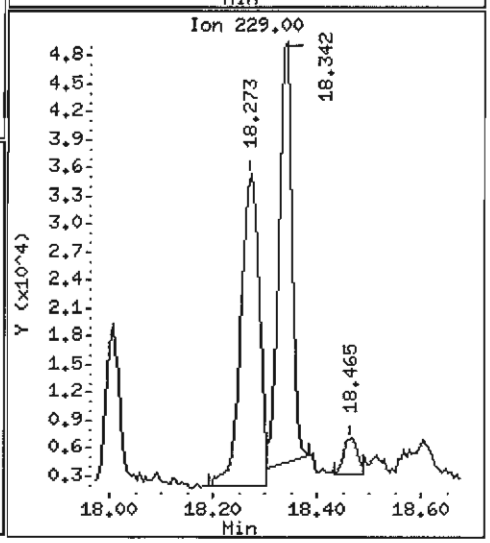












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

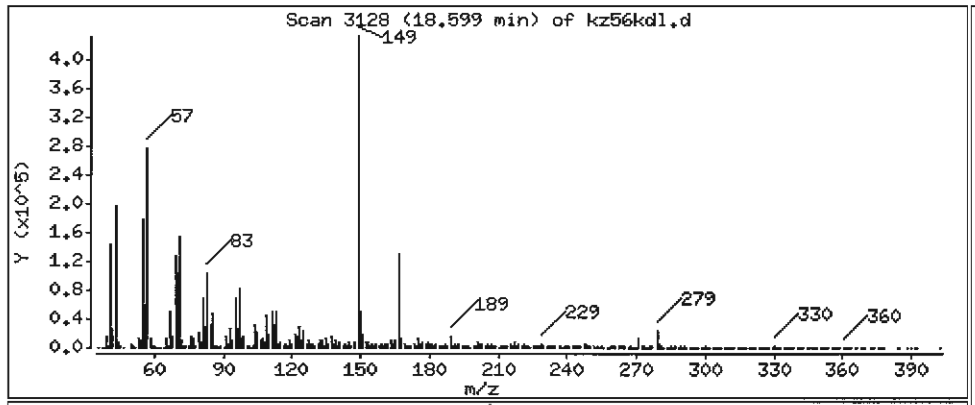
Operator: LJR/VTS

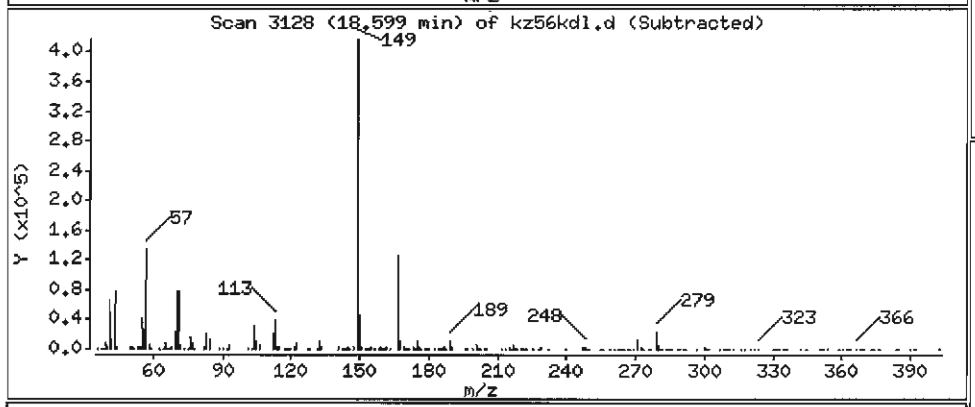
Column phase: ZB-5

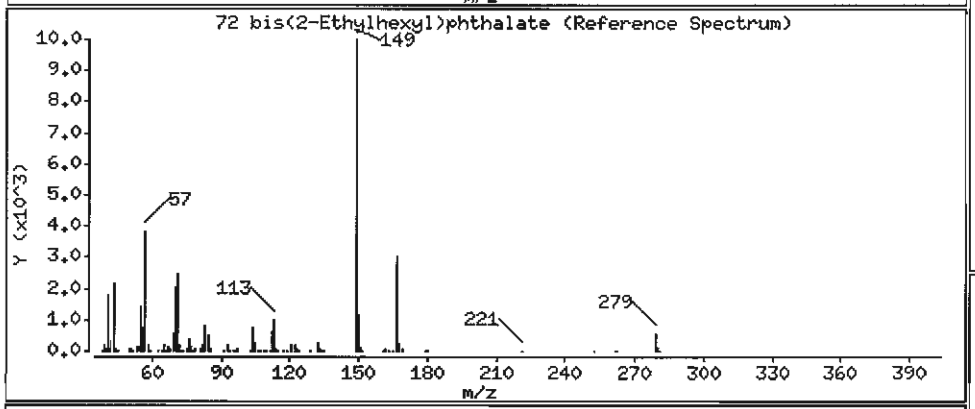
Column diameter: 0.32

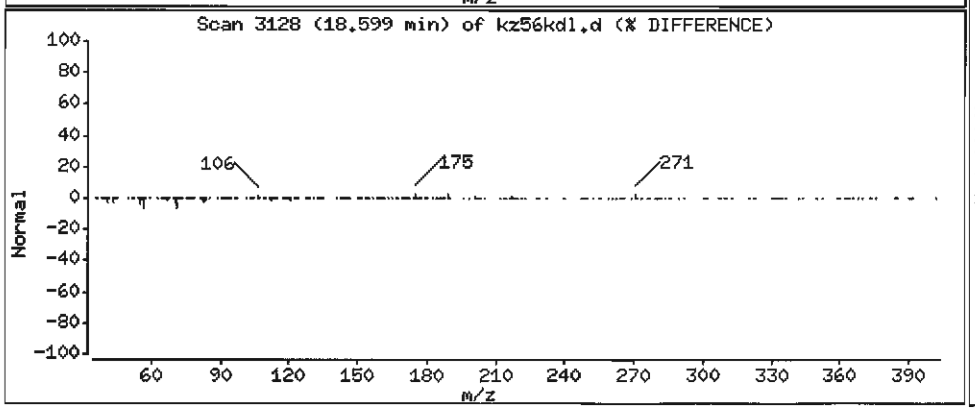
72 bis(2-Ethylhexyl)phthalate

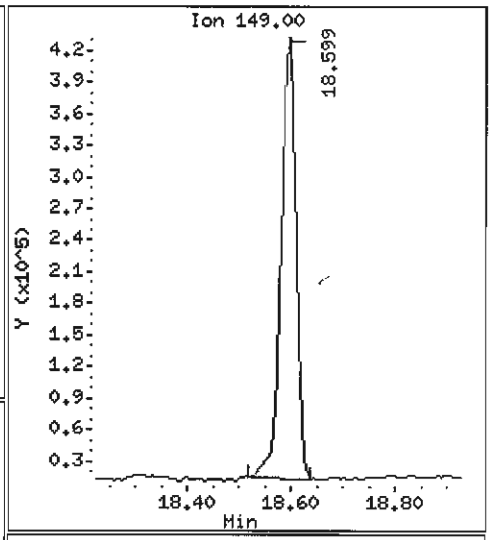
Concentration: 9521 ug/kg

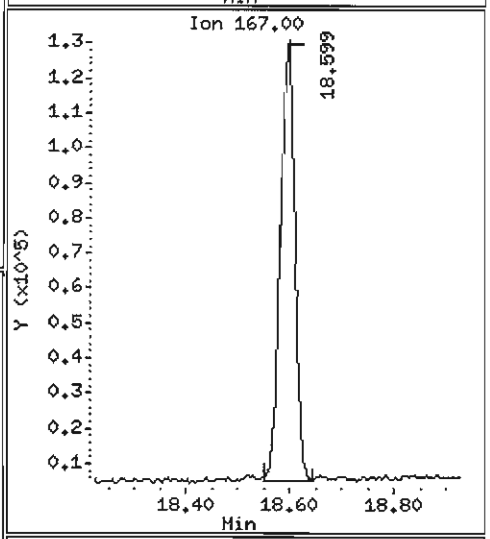


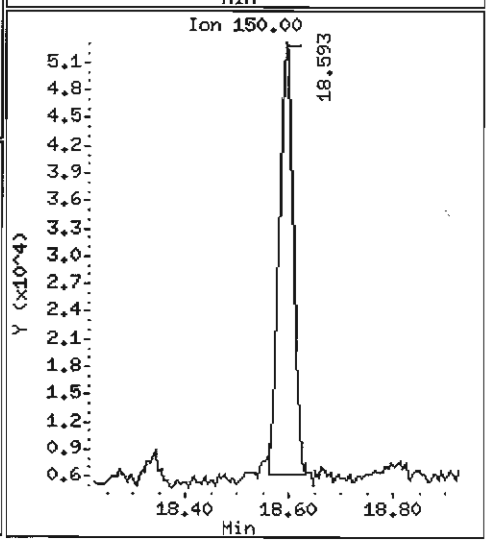












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

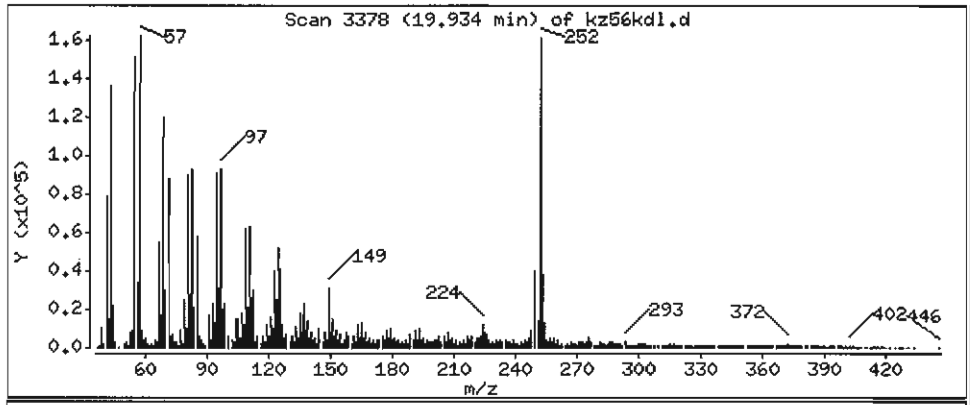
Operator: LJR/VTS

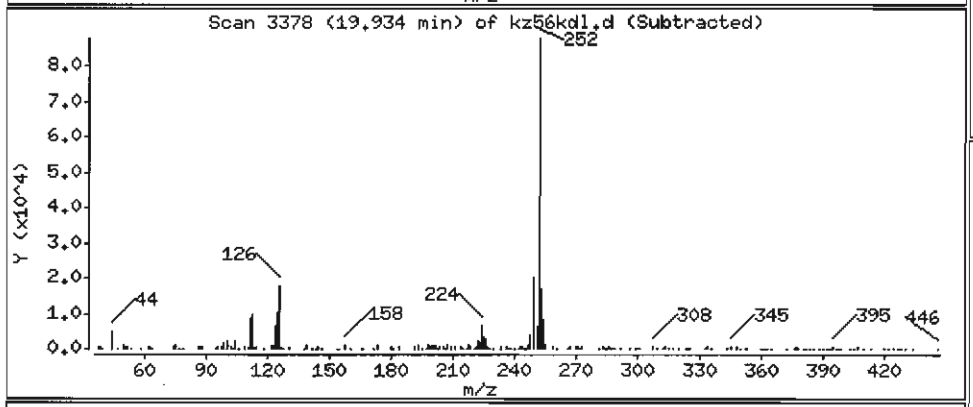
Column phase: ZB-5

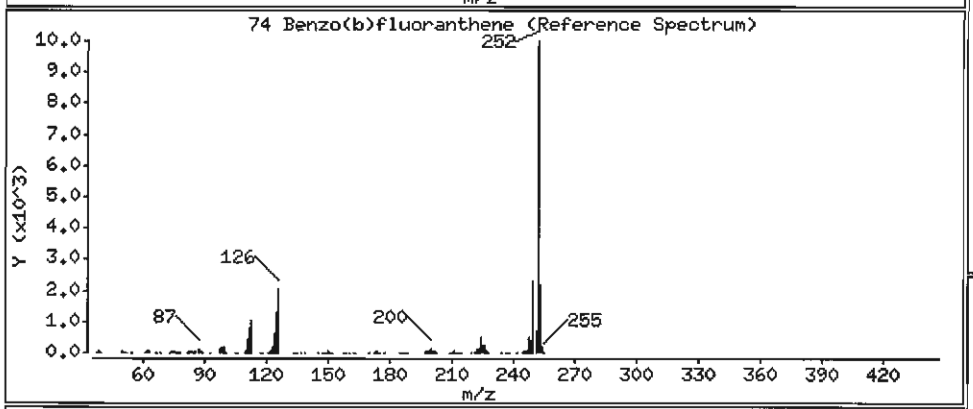
Column diameter: 0.32

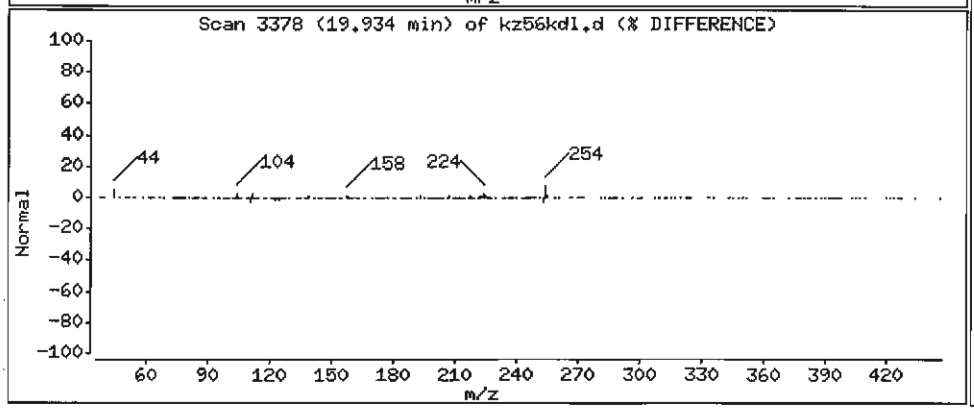
74 Benzo(b)fluoranthene

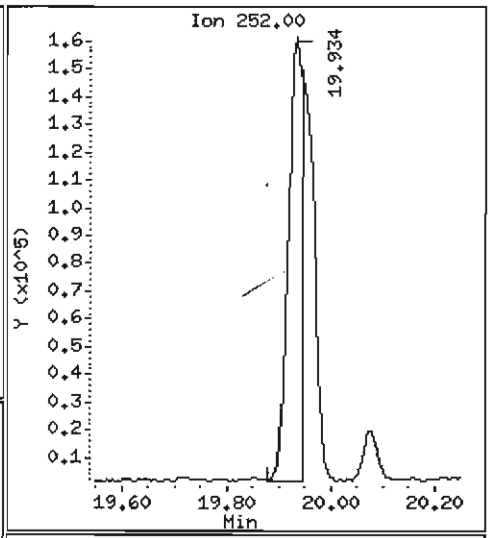
Concentration: 3777 ug/kg

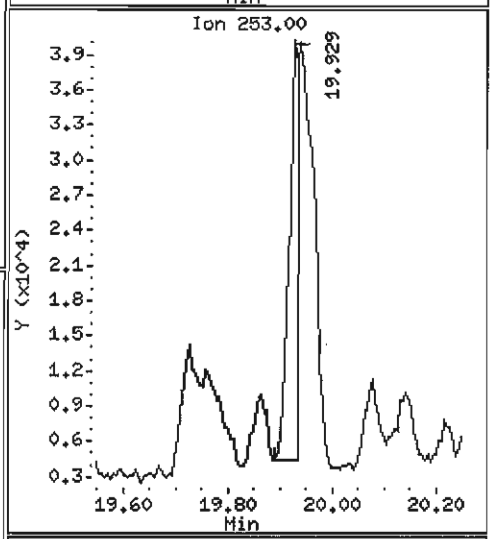


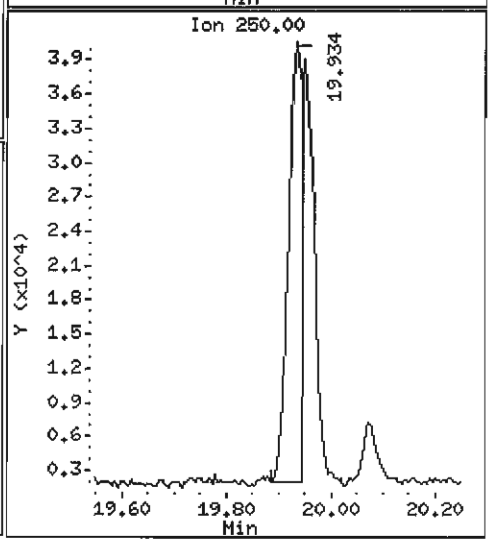












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

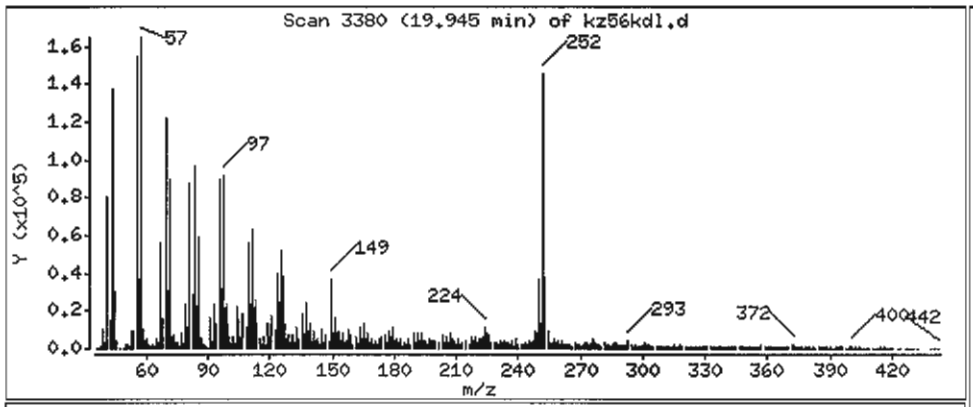
Operator: LJR/VTS

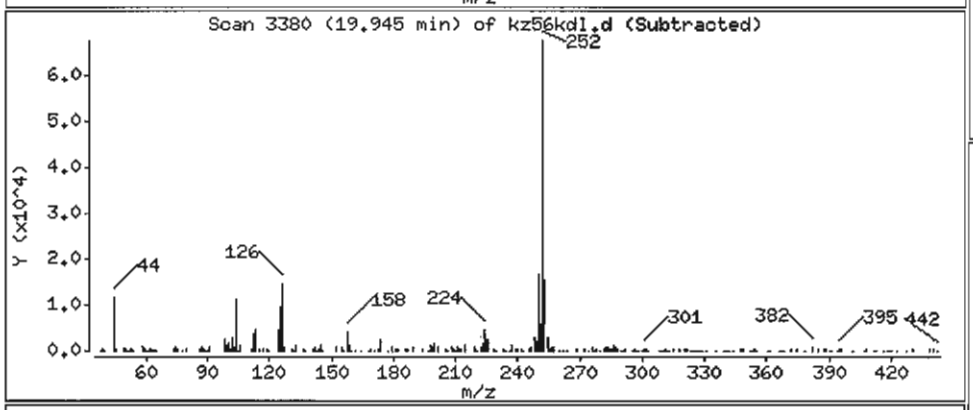
Column phase: ZB-5

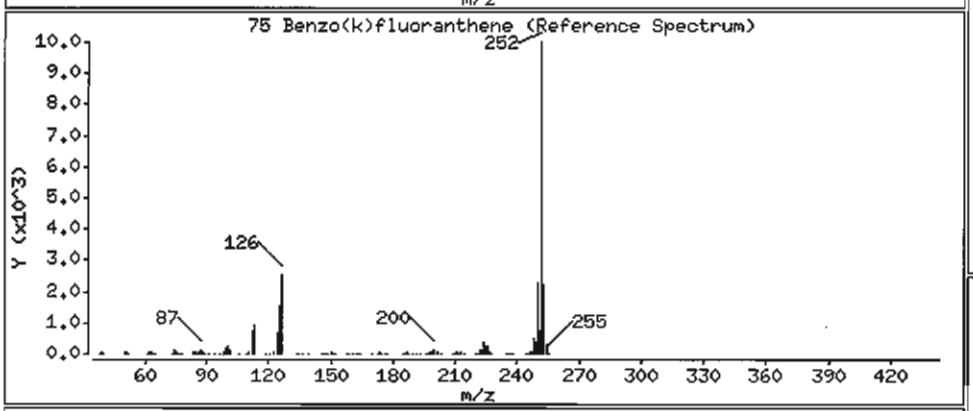
Column diameter: 0.32

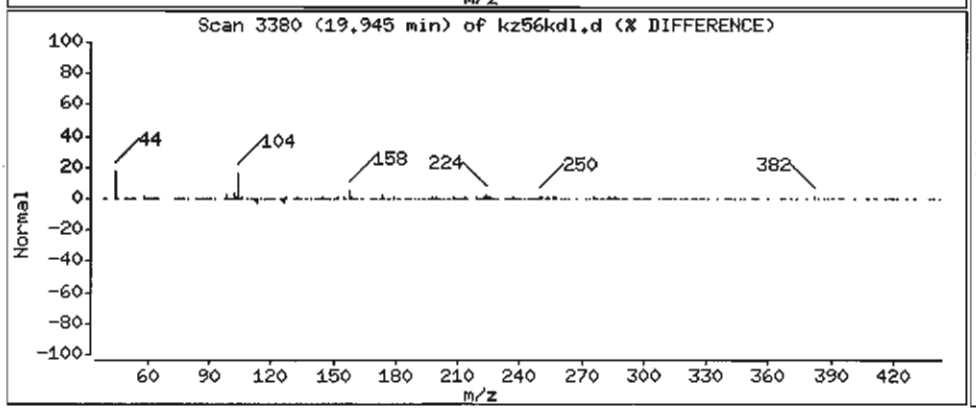
75 Benzo(k)fluoranthene

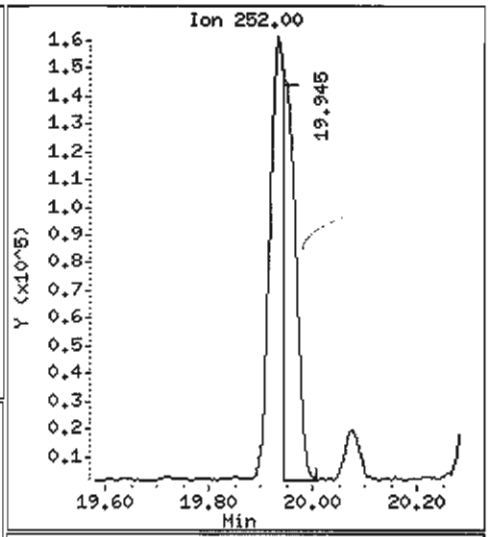
Concentration: 3211 ug/kg

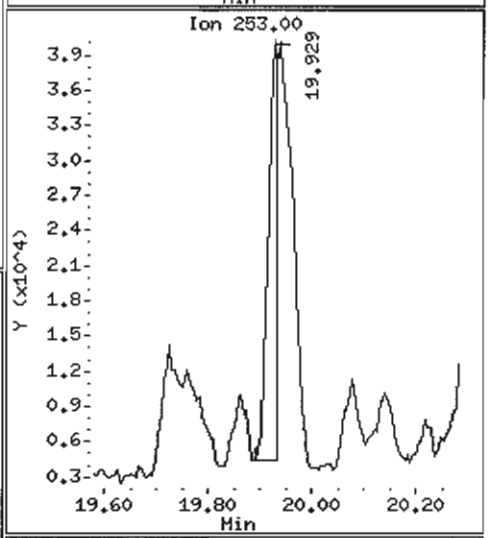


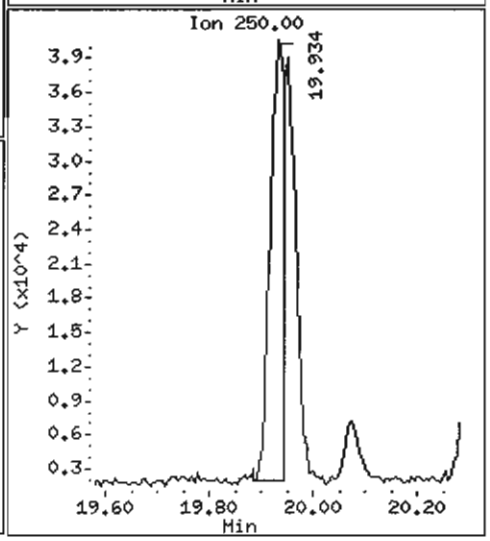












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

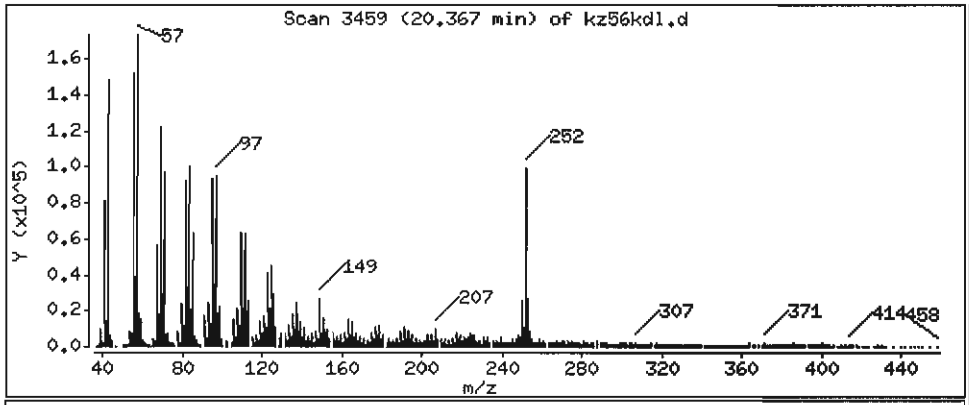
Operator: LJR/VTS

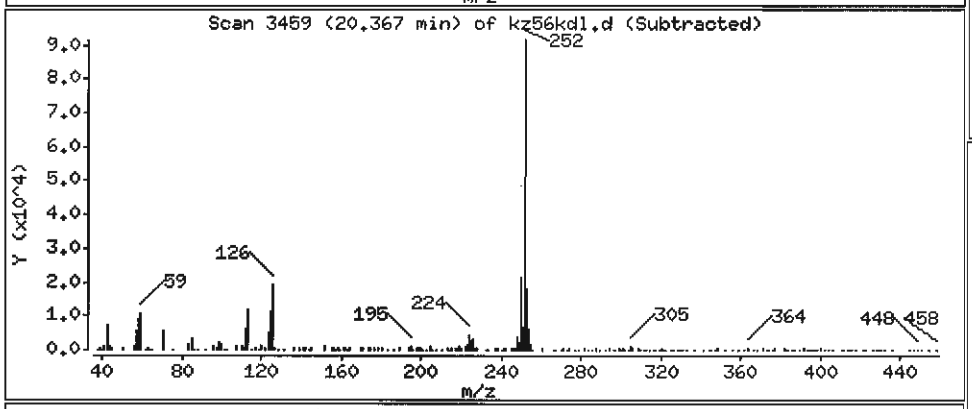
Column phase: ZB-5

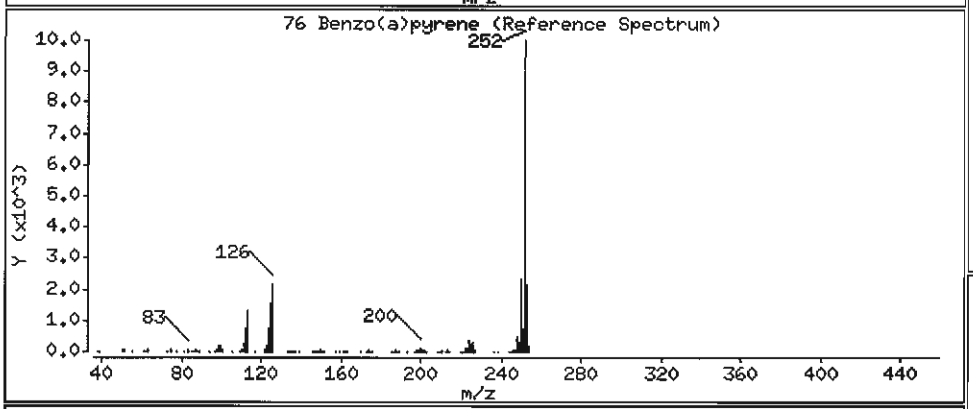
Column diameter: 0.32

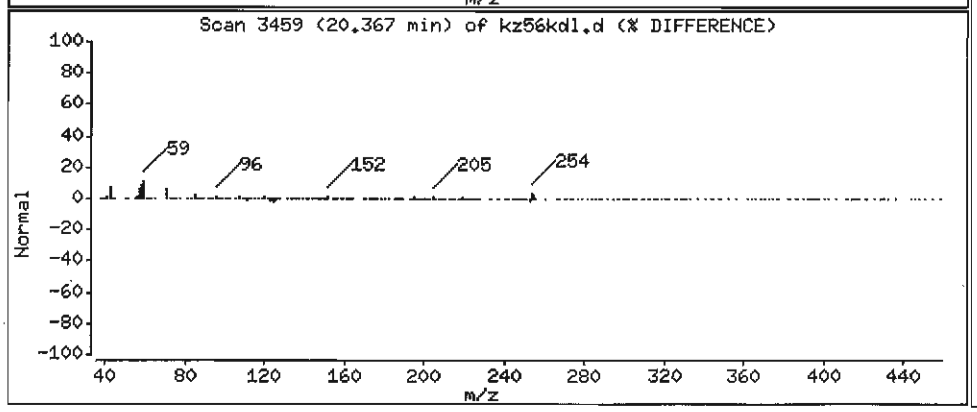
76 Benzo(a)pyrene

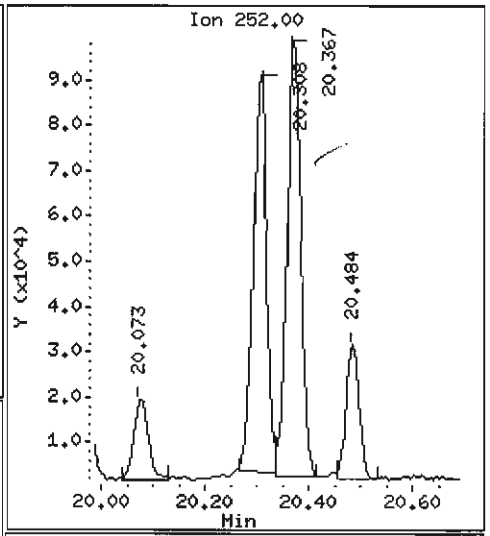
Concentration: 2291 ug/kg

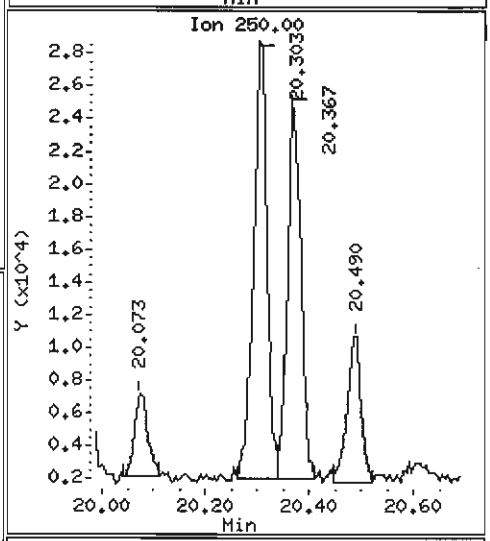


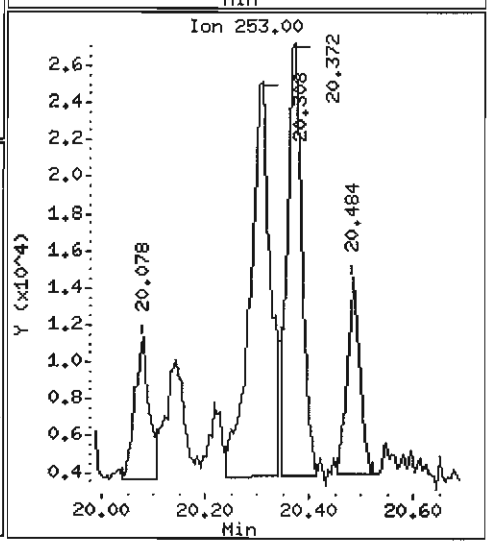












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

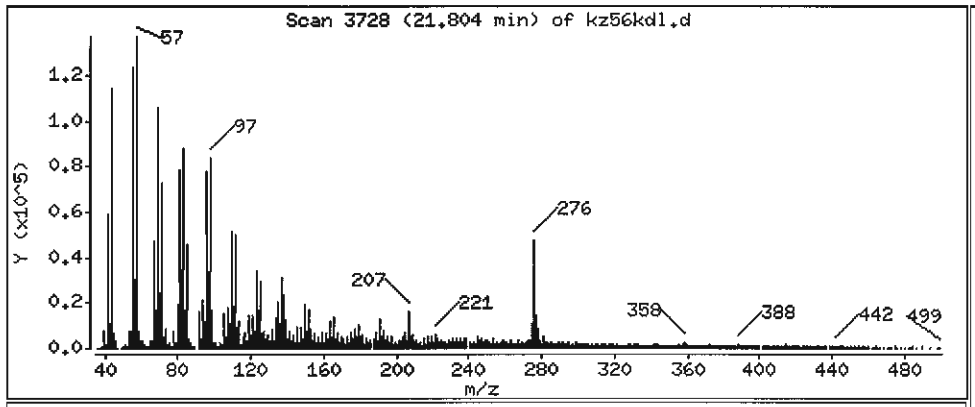
Operator: LJR/VTS

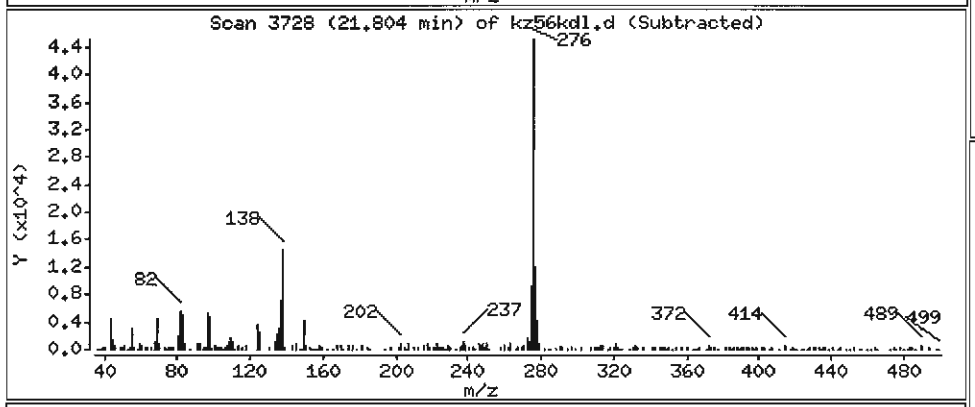
Column phase: ZB-5

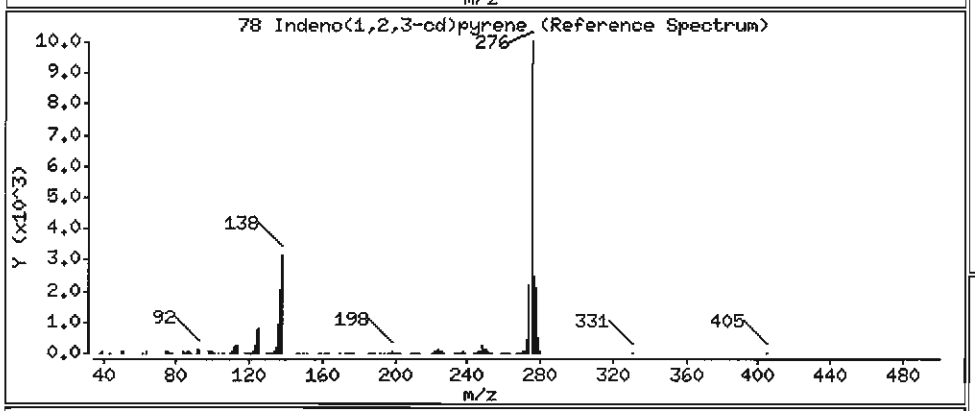
Column diameter: 0.32

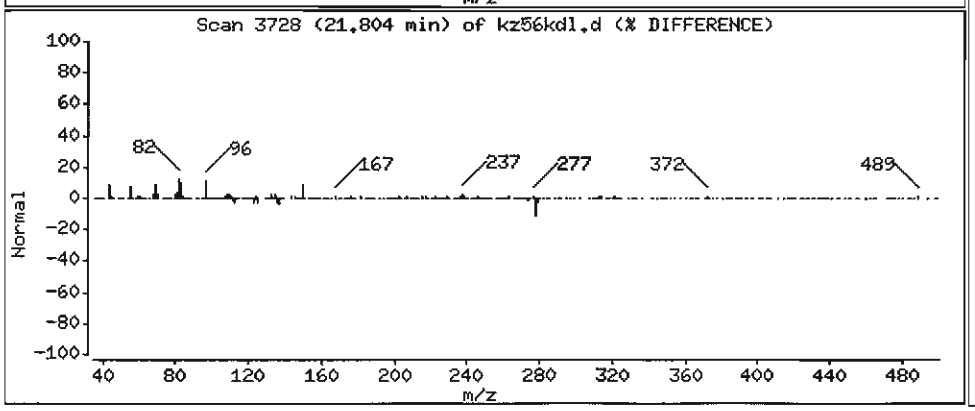
78 Indeno(1,2,3-cd)pyrene

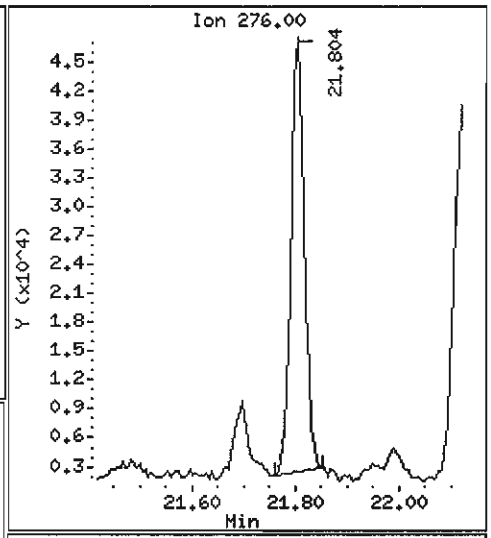
Concentration: 860.5 ug/kg

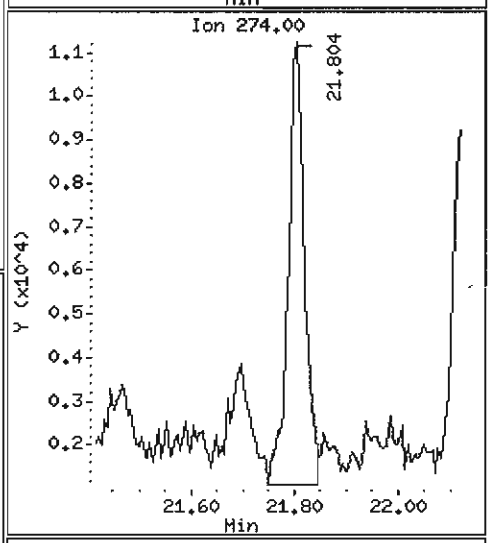


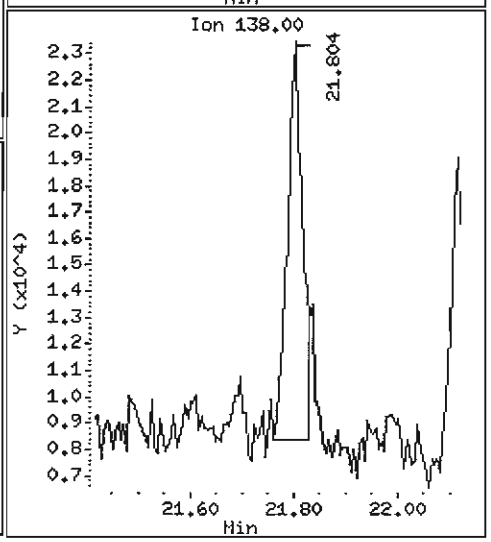












Data File: /chem1/nt6.i/20070529.b/kz56kdl.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

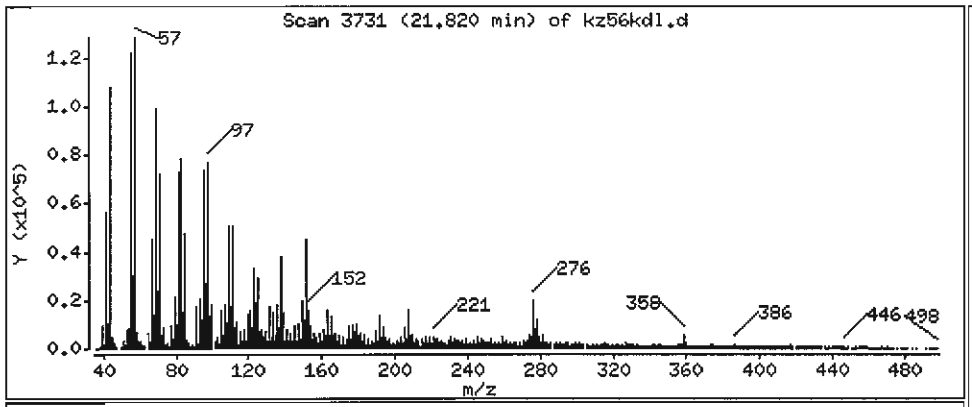
Operator: LJR/VTS

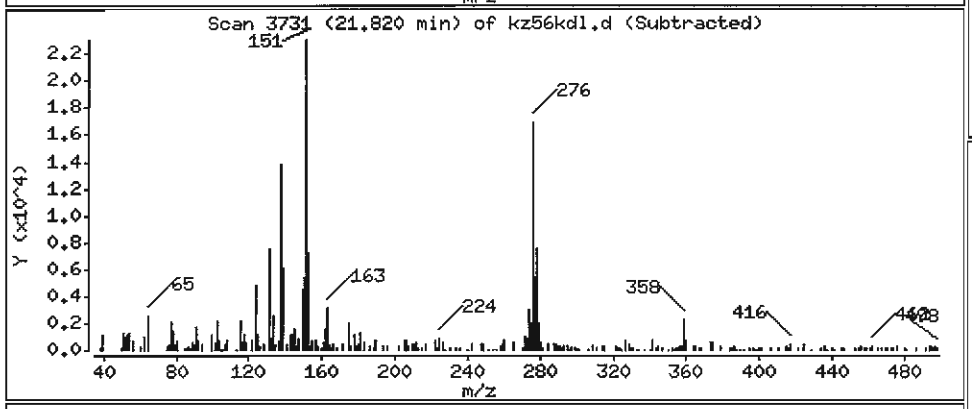
Column phase: ZB-5

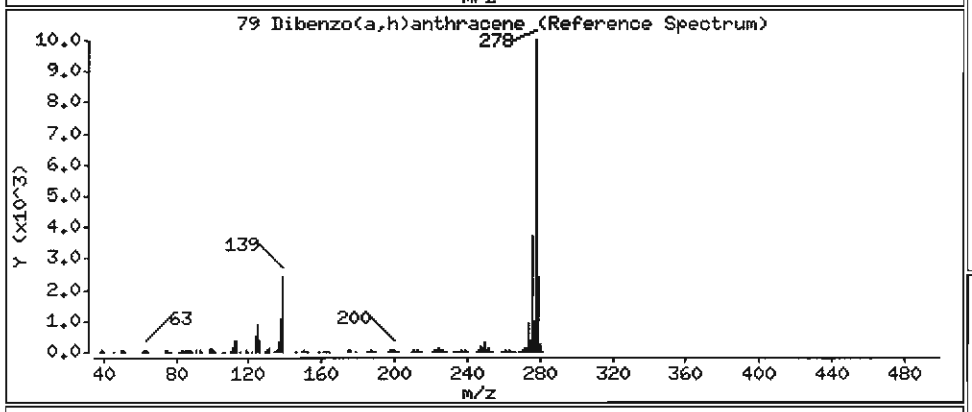
Column diameter: 0.32

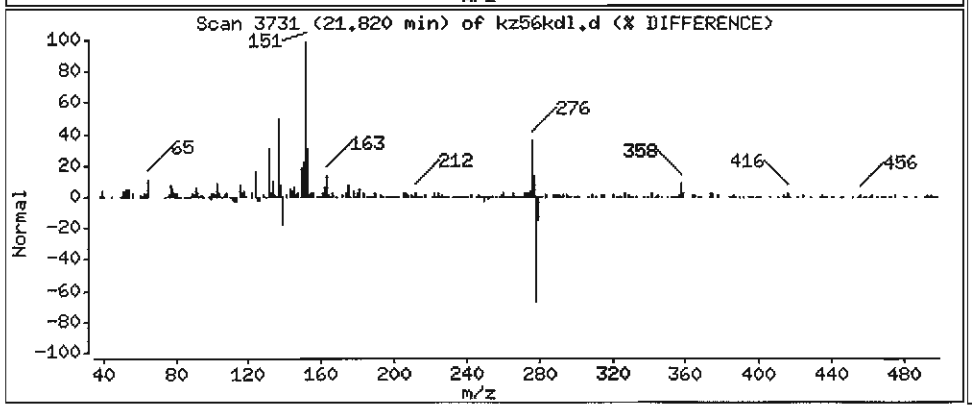
79 Dibenzo(a,h)anthracene

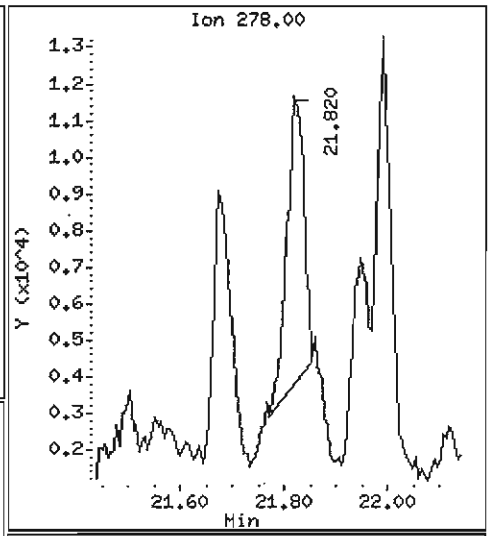
Concentration: 229.4 ug/kg

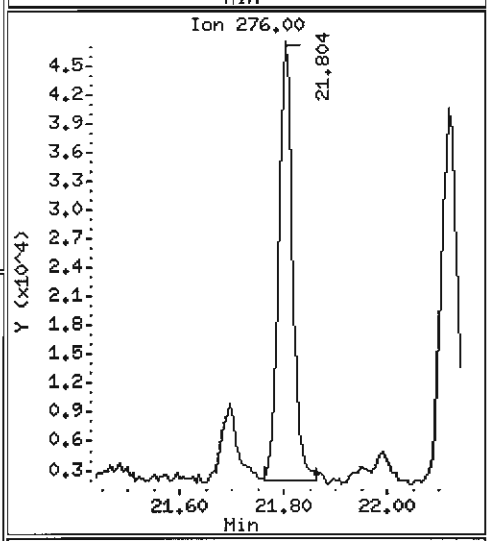


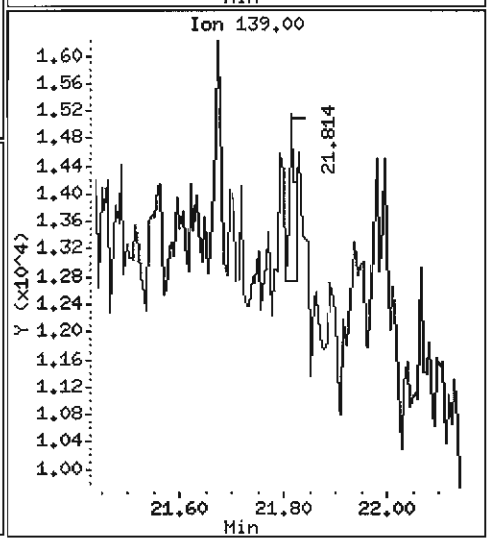












Data File: /chem1/nt6.i/20070529.b/kz56kd1.d

Date : 29-MAY-2007 17:06

Client ID: Y3-RC02-S

Instrument: nt6.i

Sample Info: KZ56K,5

Volume Injected (uL): 1.0

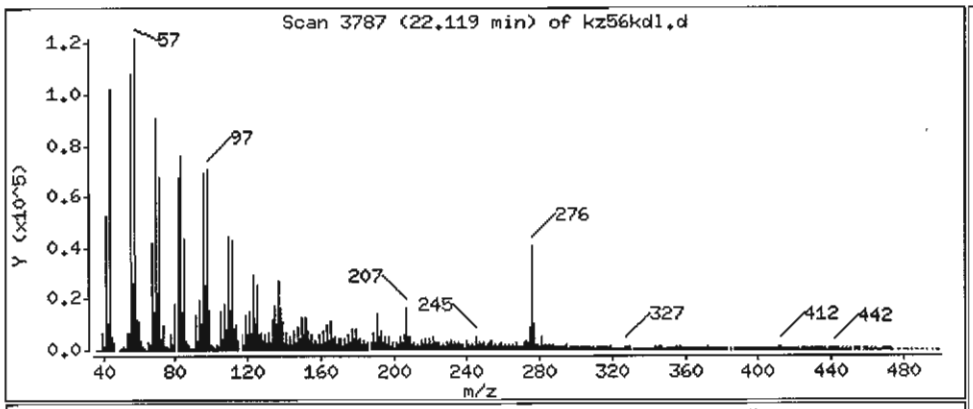
Operator: LJR/VTS

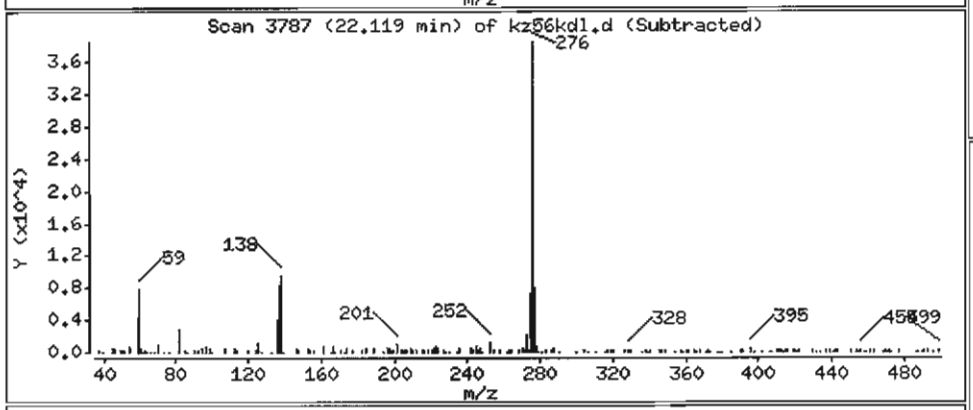
Column phase: ZB-5

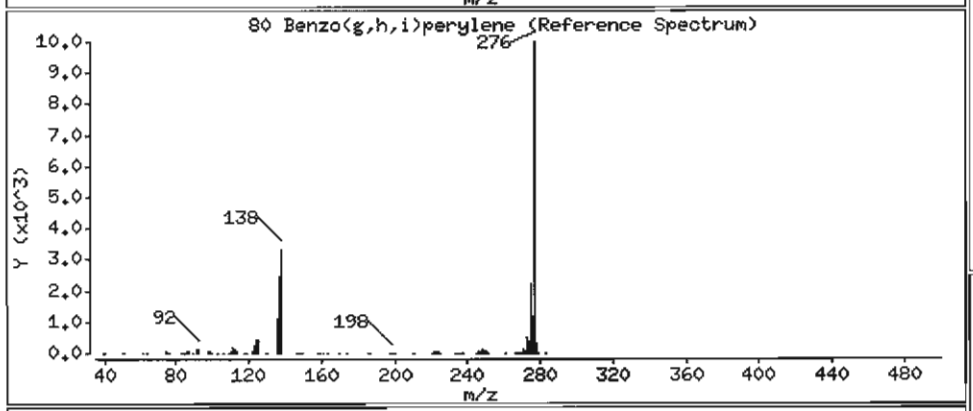
Column diameter: 0.32

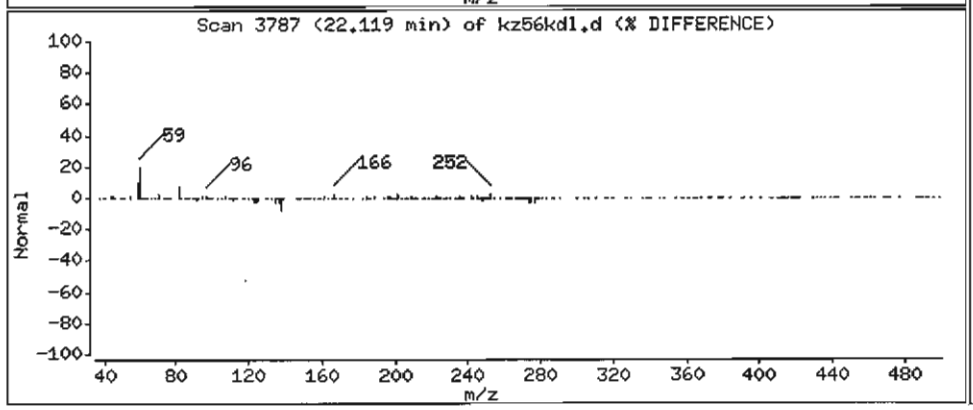
80 Benzo(g,h,i)perylene

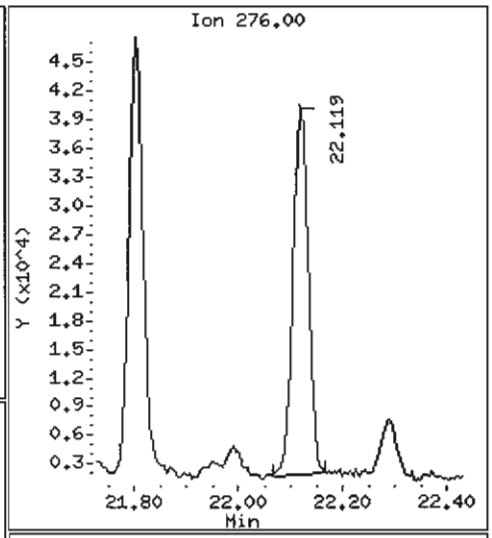
Concentration: 906.8 ug/kg

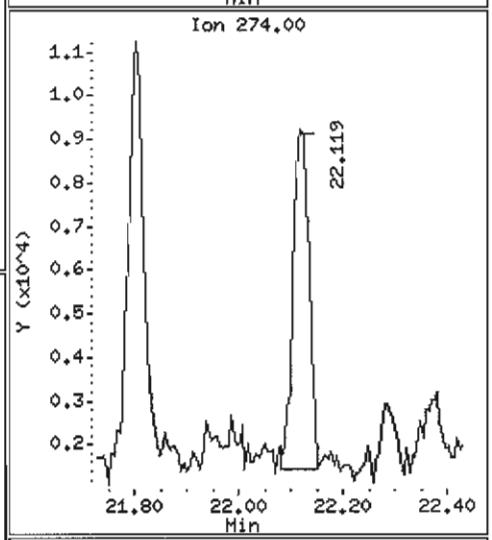


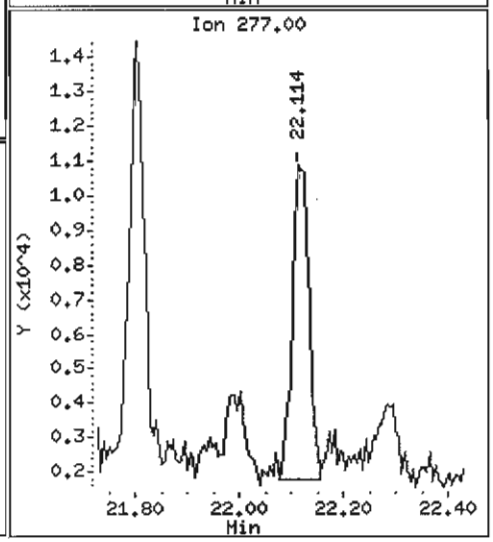












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC12-S
SAMPLE

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 13:46
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 41.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 35.3%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	72	130
91-57-6	2-Methylnaphthalene	72	54 J
208-96-8	Acenaphthylene	72	< 72 U
83-32-9	Acenaphthene	72	76
132-64-9	Dibenzofuran	72	< 72 U
86-73-7	Fluorene	72	48 J
85-01-8	Phenanthrene	72	500
120-12-7	Anthracene	72	150
206-44-0	Fluoranthene	72	1,100
129-00-0	Pyrene	72	980
56-55-3	Benzo(a)anthracene	72	420
117-81-7	bis(2-Ethylhexyl)phthalate	72	2,200
218-01-9	Chrysene	72	620
205-99-2	Benzo(b)fluoranthene	72	820
207-08-9	Benzo(k)fluoranthene	72	560
50-32-8	Benzo(a)pyrene	72	510
193-39-5	Indeno(1,2,3-cd)pyrene	72	190
53-70-3	Dibenz(a,h)anthracene	72	48 J
191-24-2	Benzo(g,h,i)perylene	72	190

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.1%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	63.5%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	63.4%	2-Fluorophenol	50.0%
2,4,6-Tribromophenol	68.6%	d4-2-Chlorophenol	62.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56l.d
Lab Smp Id: KZ56L
Client Smp ID: Y3-RC12-S
Inj Date : 29-MAY-2007 13:46
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56L,3
Misc Info : 07-9558
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 8
Dil Factor: 3.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	64.00000	Weight of sample extracted (g)
M	35.30000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.926	4.903	(0.723)	124806	6.25028	452.8
$ 2 Phenol-d5	99	6.459	6.447	(0.948)	185807	7.93058	574.6
3 Phenol	94	6.480	6.468	(0.951)	13794	0.53631	38.86
$ 5 2-Chlorophenol-d4	132	6.528	6.521	(0.958)	125615	7.75399	561.8
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.811	6.805	(1.000)	219630	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.100	7.093	(1.042)	48832	4.92940	357.1
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.725	7.729	(0.875)	104616	5.58817	404.9
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.825	8.819	(1.000)	786763	20.0000	
	28 Naphthalene	128	8.852	8.851	(1.003)	84288	1.80869	131.0
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	9.968	9.967	(1.130)	17446	0.73646 LDL	53.36
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.620	10.619	(0.911)	147123	5.47274	396.5
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.657	11.655	(1.000)	398320	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.705	11.703	(1.004)	26404	1.05047	76.11
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.522	12.515	(1.074)	17700	0.66293 LDL	48.03(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.944	12.937	(1.110)	34804	8.58251	621.8
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.007	14.001	(1.000)	539571	20.0000	
	60 Phenanthrene	178	14.045	14.038	(1.003)	250453	6.95527	503.9
	61 Anthracene	178	14.114	14.107	(1.008)	74886	2.01271	145.8
	62 Carbazole	167	14.418	14.412	(1.029)	37332	1.16603	84.48
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.984	15.956	(1.141)	511362	14.9676	1084
65 Pyrene	202	16.320	16.303	(0.892)	555142	13.4906	977.4
$ 66 Terphenyl-d14	244	16.668	16.650	(0.911)	137854	5.29010	383.3
67 Butylbenzylphthalate	149	17.570	17.558	(0.960)	35048	1.81145	131.2(M)
68 Benzo(a)anthracene	228	18.275	18.253	(0.999)	215228	5.80975	420.9
* 69 Chrysene-d12	240	18.302	18.280	(1.000)	495938	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.340	18.322	(1.002)	322667	8.61005	623.8
72 bis(2-Ethylhexyl)phthalate	149	18.596	18.573	(0.952)	772235	30.1164	2182
* 134 Di-n-octylphthalate-d4	153	19.526	19.503	(1.000)	748632	20.0000	
73 Di-n-octylphthalate	149	19.542	19.514	(1.001)	36023	0.80999 LOL	58.68(M)
74 Benzo(b)fluoranthene	252	19.937	19.898	(0.975)	315009	11.3008	818.7(M)
75 Benzo(k)fluoranthene	252	19.948	19.930	(0.975)	208836	7.79882	565.0(M)
76 Benzo(a)pyrene	252	20.370	20.336	(0.996)	195176	6.99535	506.8
* 77 Perylene-d12	264	20.450	20.416	(1.000)	429920	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.801	21.768	(1.066)	84757	2.56949	186.2(M)
79 Dibenzo(a,h)anthracene	278	21.817	21.789	(1.067)	17930	0.65631 LOL	47.55(M)
80 Benzo(g,h,i)perylene	276	22.116	22.078	(1.081)	79567	2.63310	190.8
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	10.134	10.133	(1.148)	11568	0.50743 LOL	36.76
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56l.d
Lab Smp Id: KZ56L
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9558

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC12-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	219630	0.89
27 Naphthalene-d8	775413	387706	1550826	786763	1.46
42 Acenaphthene-d10	371068	185534	742136	398320	7.34
59 Phenanthrene-d10	554165	277082	1108330	539571	-2.63
69 Chrysene-d12	436021	218010	872042	495938	13.74
134 Di-n-octylphthala	773344	386672	1546688	748632	-3.20
77 Perylene-d12	622369	311184	1244738	429920	-30.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.10
27 Naphthalene-d8	8.82	8.32	9.32	8.83	0.08
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.01
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.05
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.12
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.12
77 Perylene-d12	20.42	19.92	20.92	20.45	0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

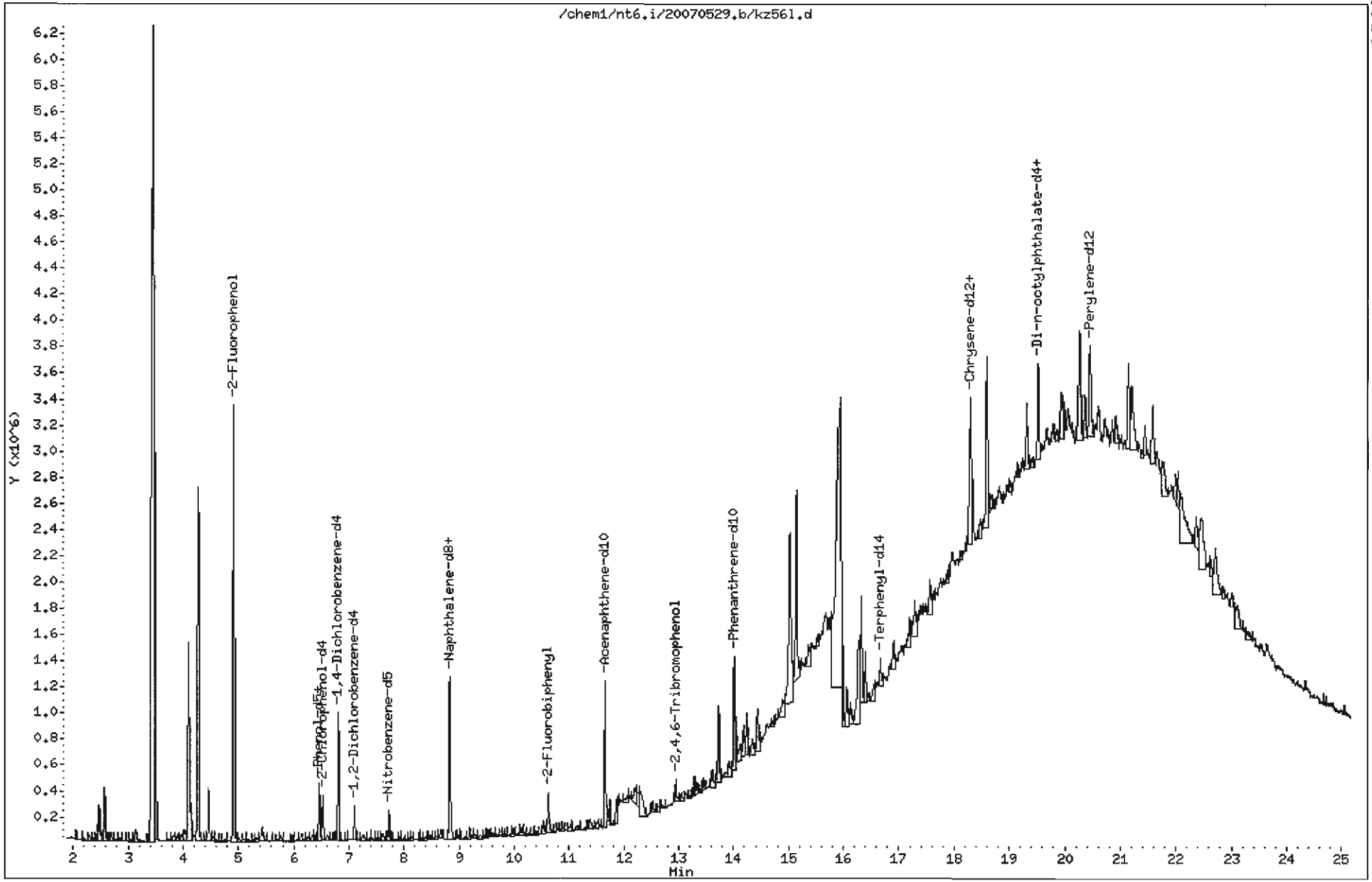
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56L
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9558

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC12-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	905.6	452.8	50.00	11-84
$ 2 Phenol-d5	905.6	574.6	63.44	25-86
$ 5 2-Chlorophenol-d4	905.6	561.8	62.03	23-91
$ 10 1,2-Dichlorobenzen	603.7	357.1	59.15	24-90
$ 18 Nitrobenzene-d5	603.7	404.9	67.06	26-88
$ 36 2-Fluorobiphenyl	603.7	396.5	65.67	34-91
$ 55 2,4,6-Tribromophen	905.6	621.8	68.66	25-107
$ 66 Terphenyl-d14	603.7	383.3	63.48	22-100

Data File: /chem1/nt6.i/20070529.b/kz561.d
Date : 29-MAY-2007 13:46
Client ID: Y3-RC12-S
Sample Info: KZ56L,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0580

Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

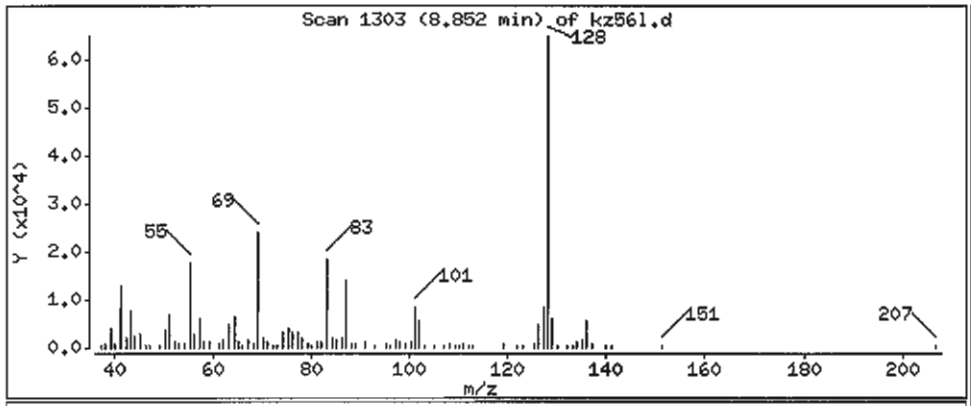
Operator: LJR/VTS

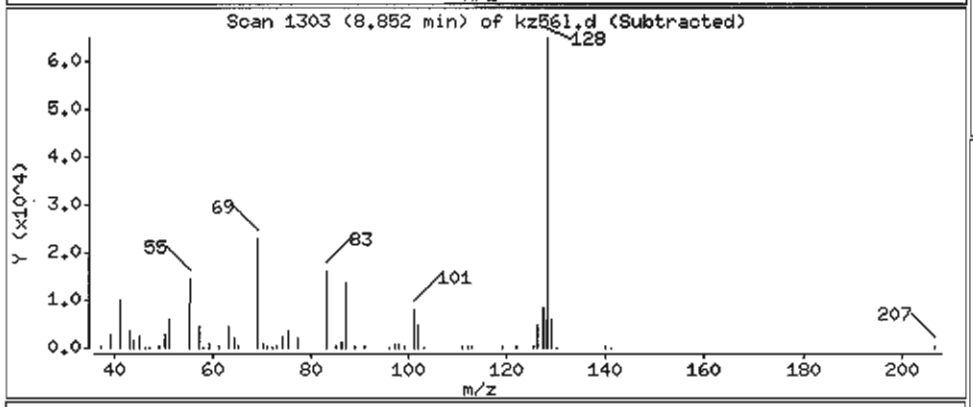
Column phase: ZB-5

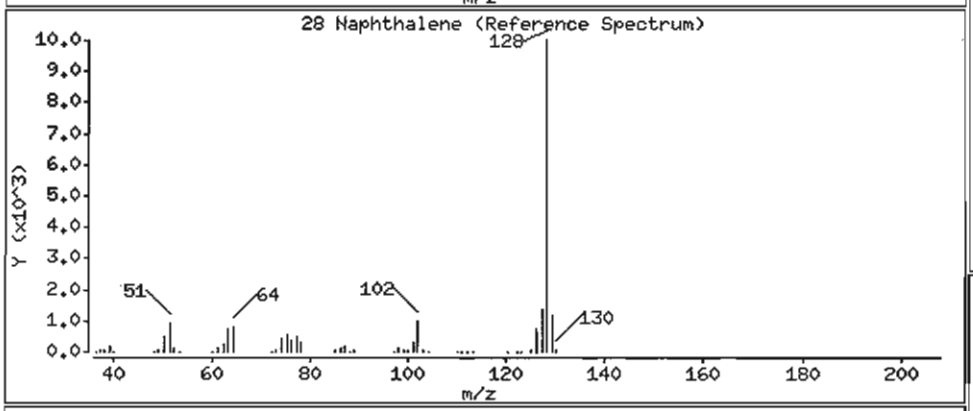
Column diameter: 0.32

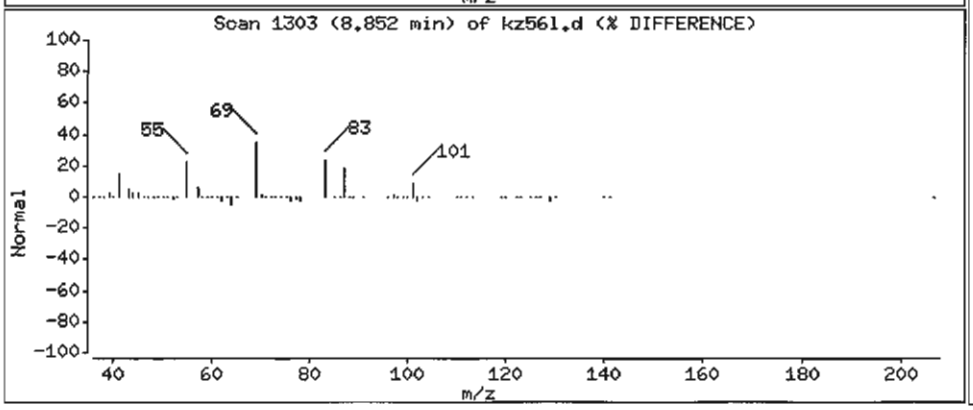
28 Naphthalene

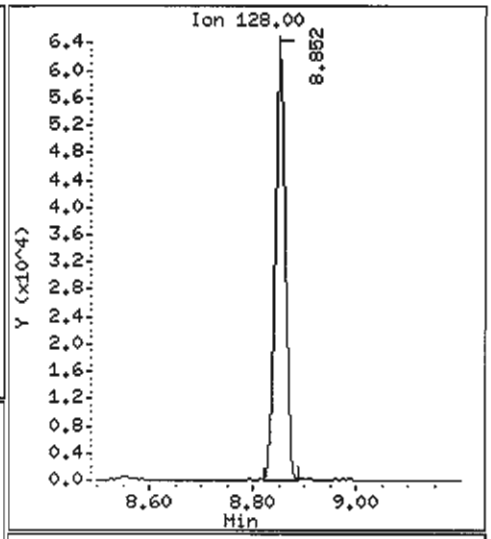
Concentration: 131.0 ug/kg

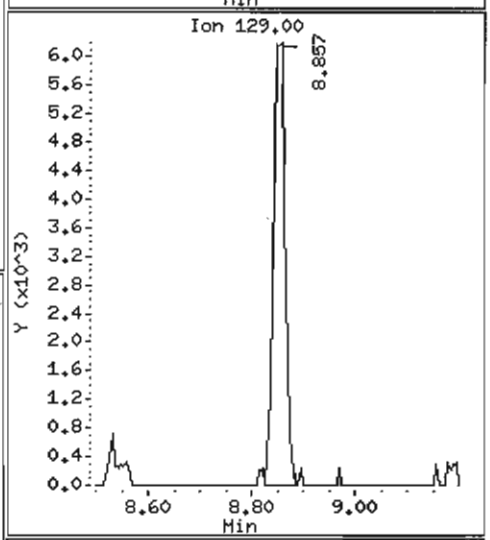


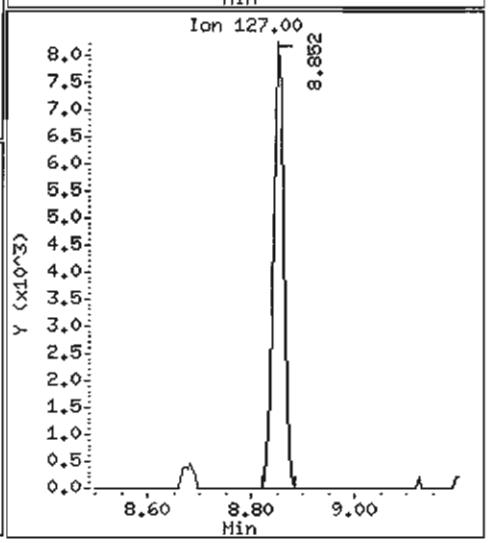












Data File: /chem1/nt6.i/20070529.b/kz56l.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

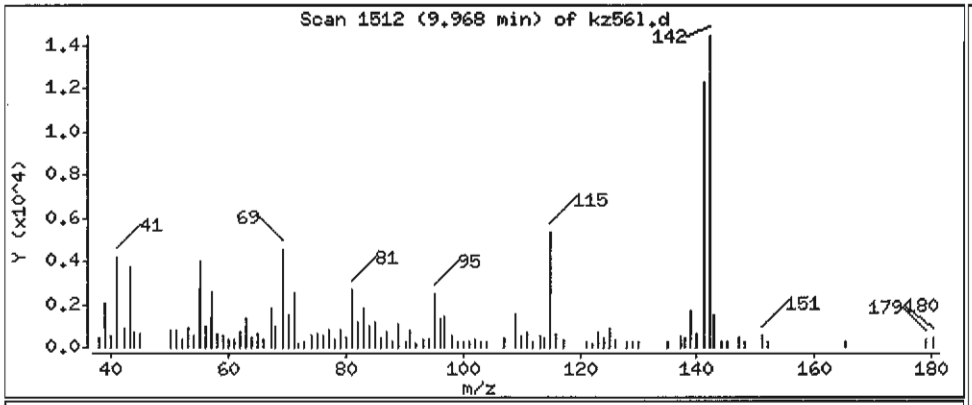
Operator: LJR/VTS

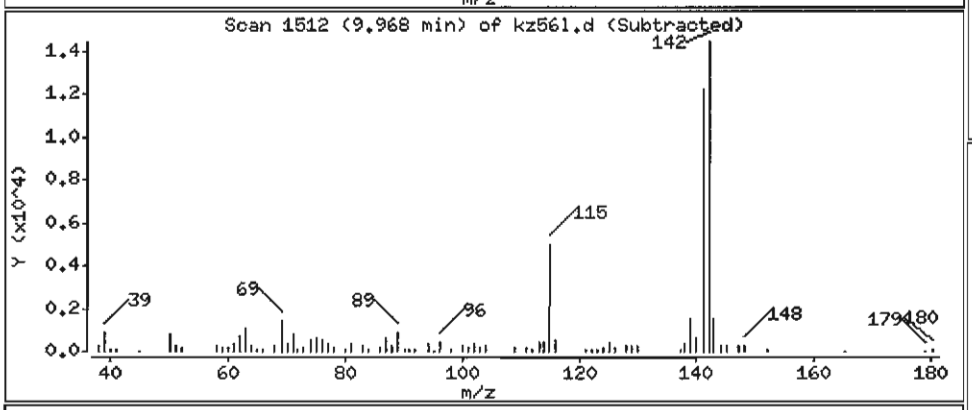
Column phase: ZB-5

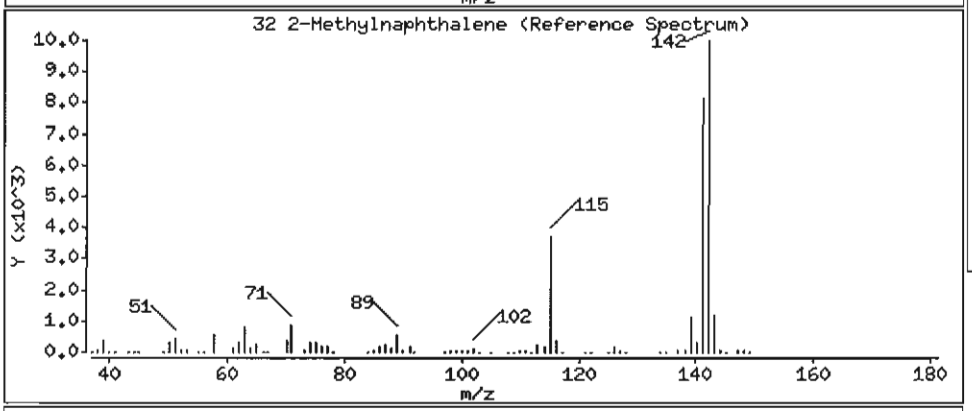
Column diameter: 0.32

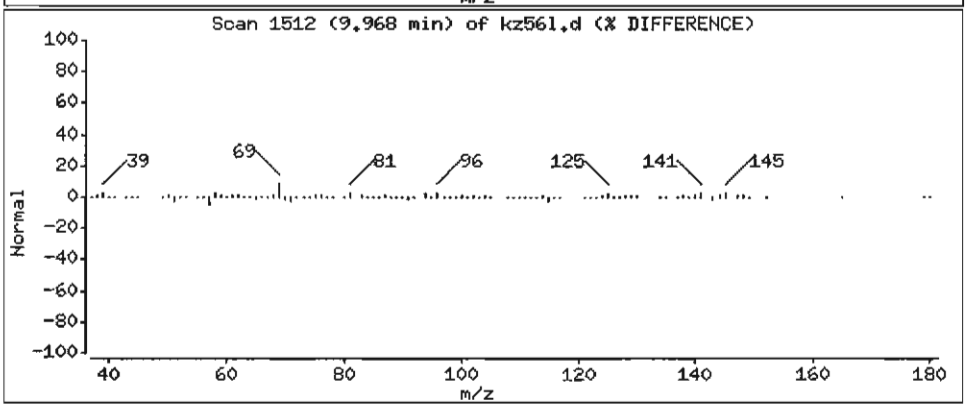
32 2-Methylnaphthalene

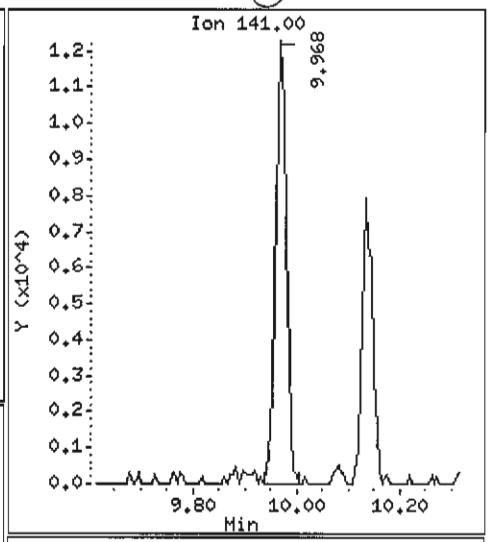
Concentration: 53.36 ug/kg

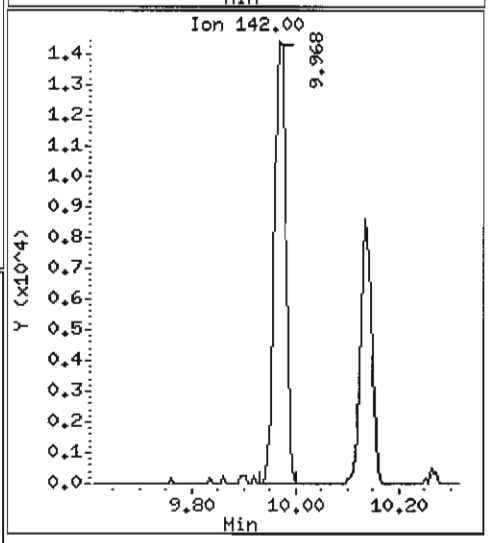












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

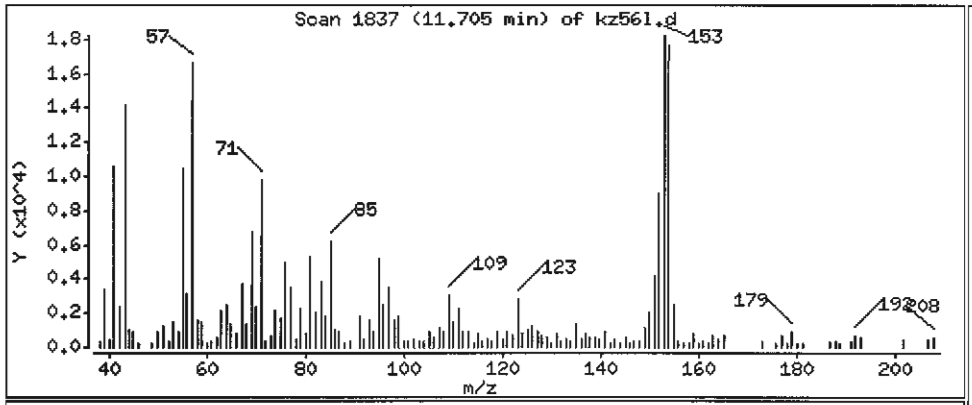
Operator: LJR/VTS

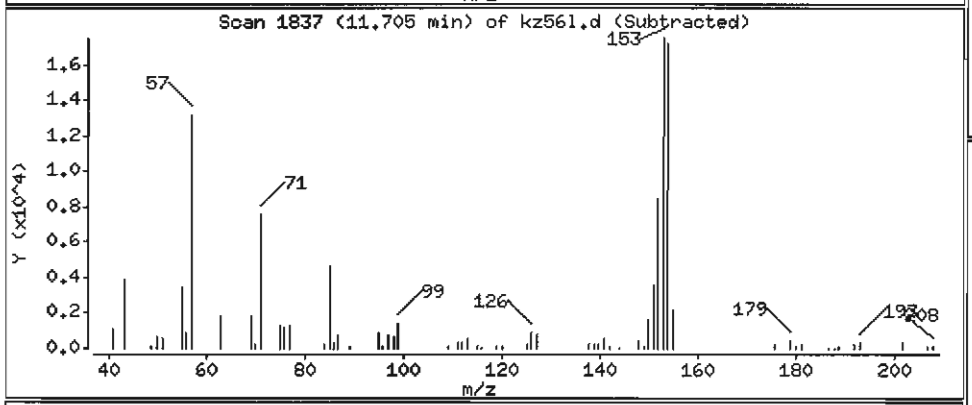
Column phase: ZB-5

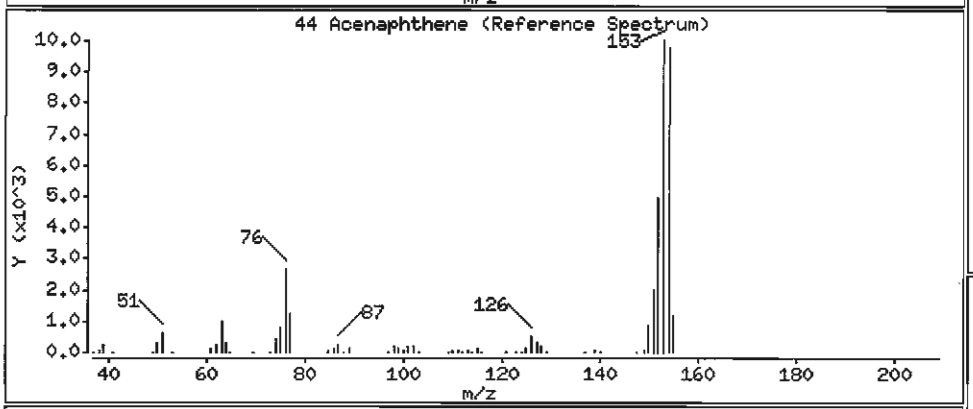
Column diameter: 0.32

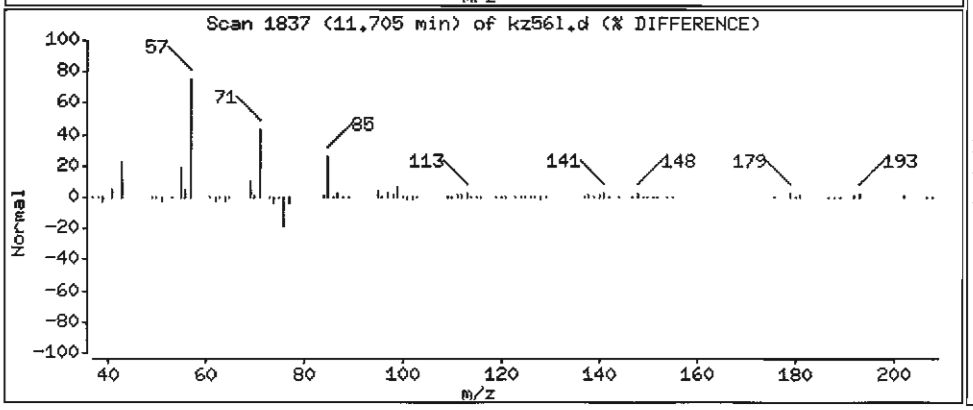
44 Acenaphthene

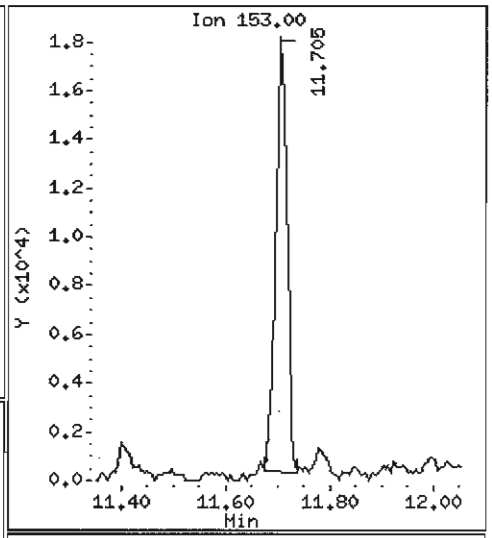
Concentration: 76.11 ug/kg

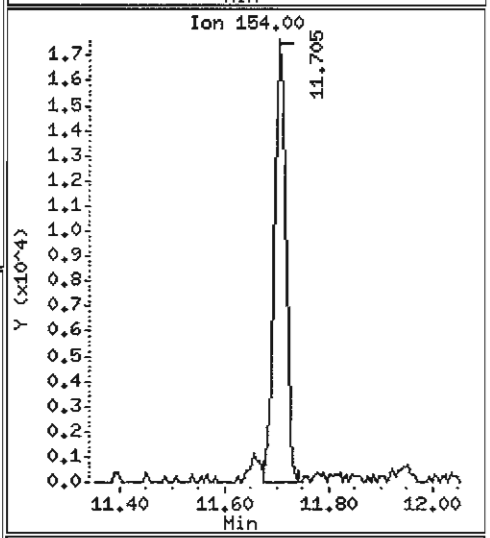


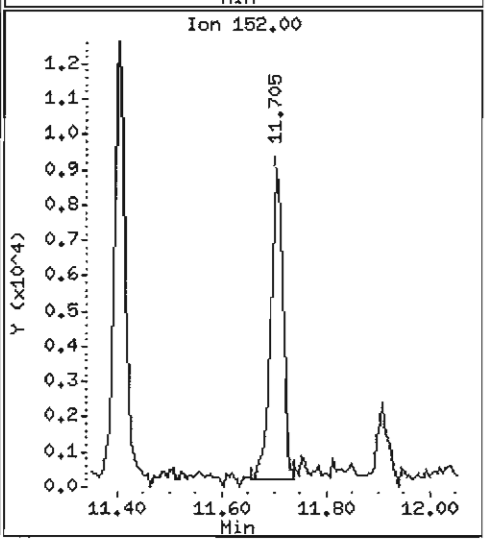












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

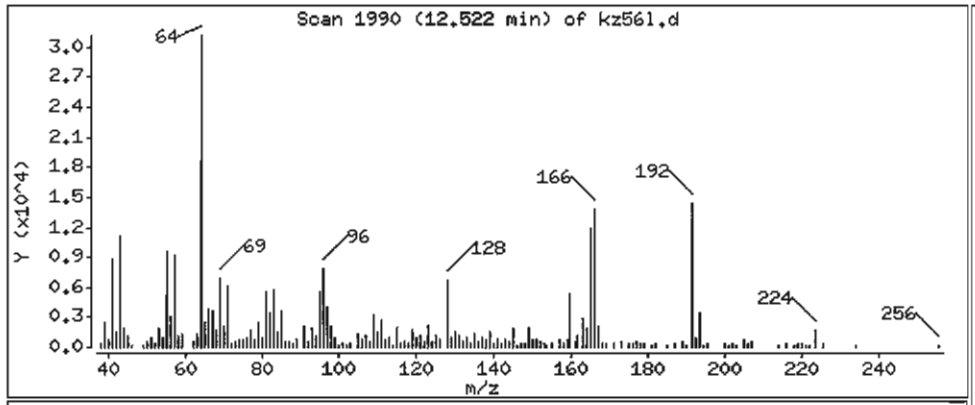
Column phase: ZB-5

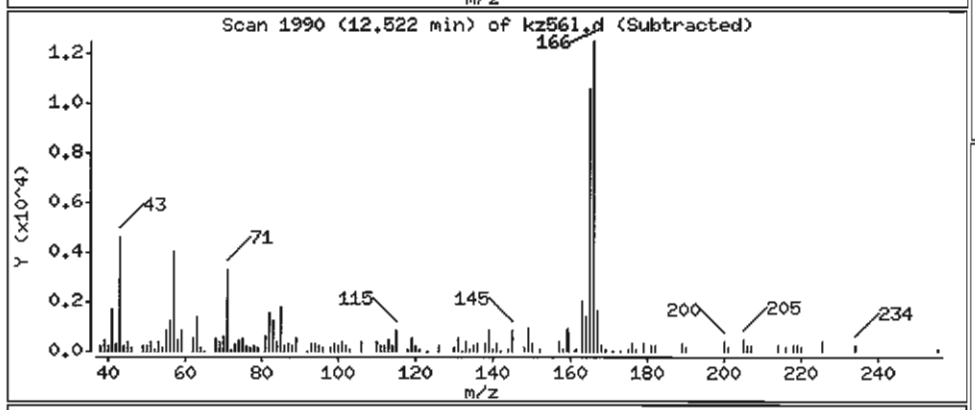
Column diameter: 0.32

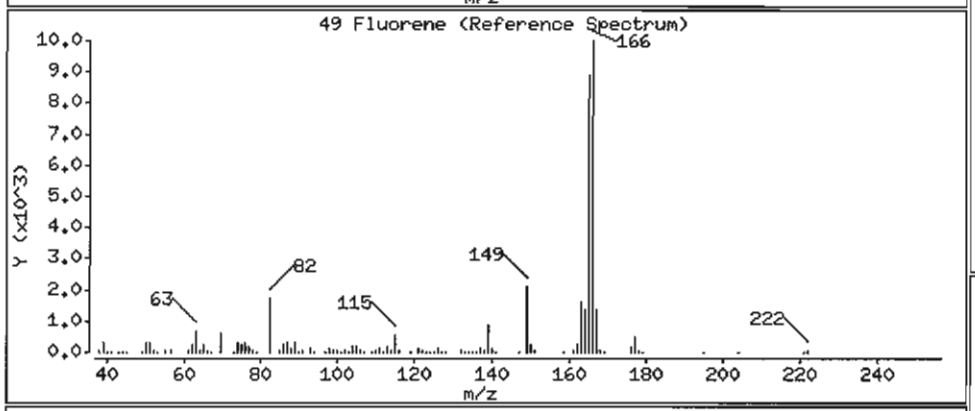
49 Fluorene

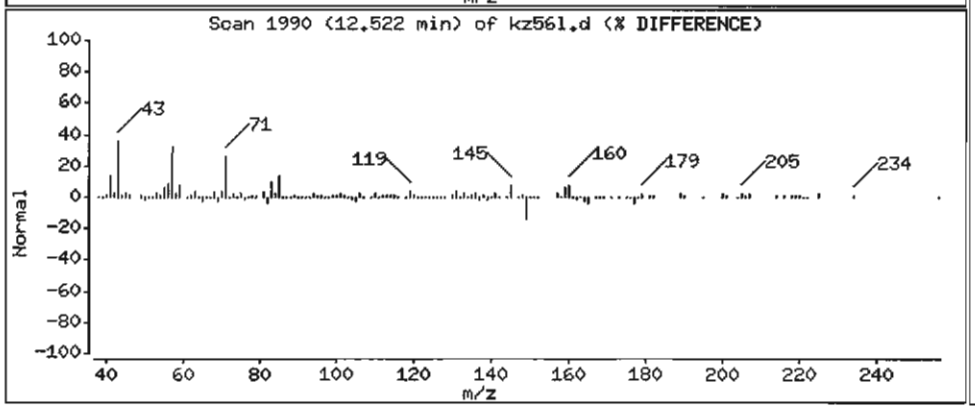
Concentration: 48.03 ug/kg

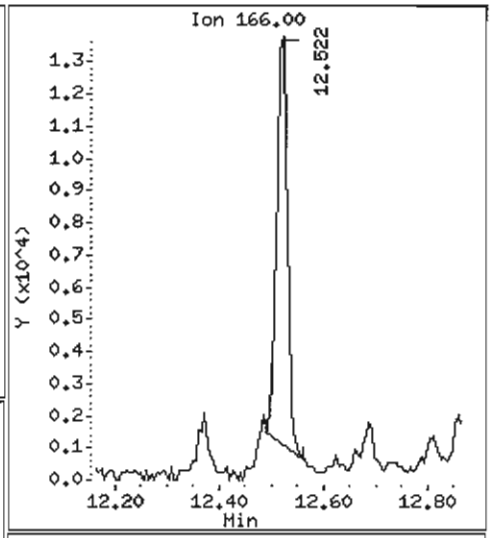
JCR

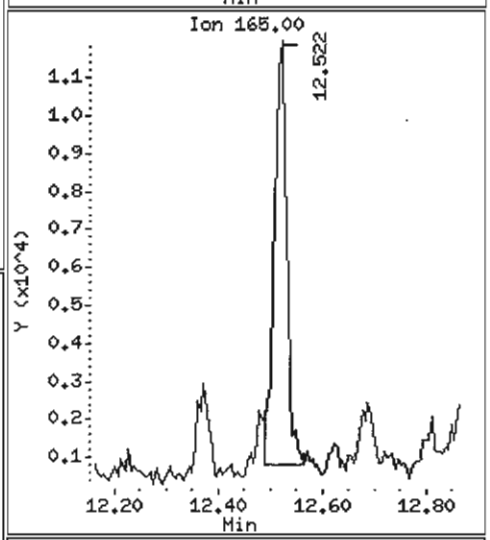


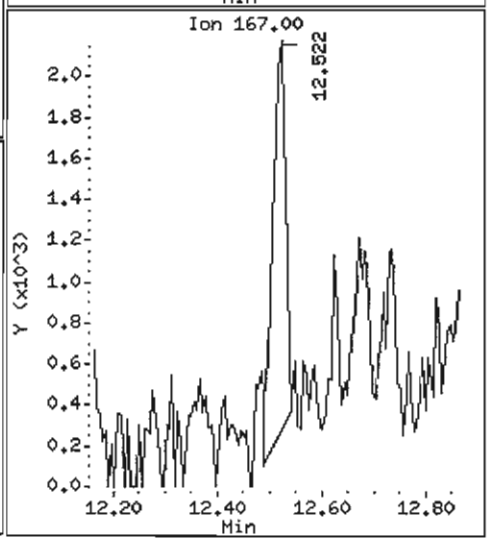












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

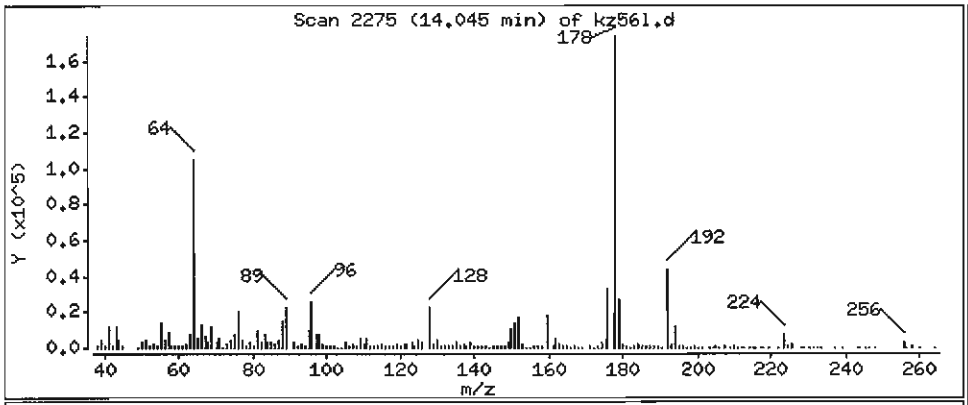
Operator: LJR/VTS

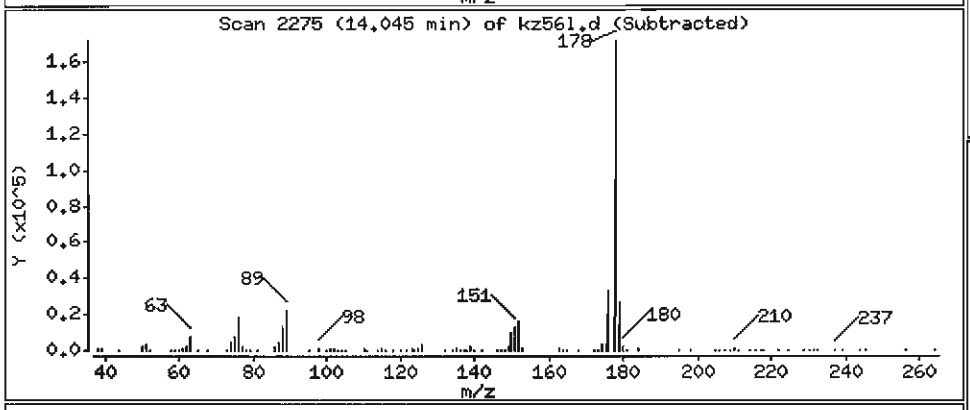
Column phase: ZB-5

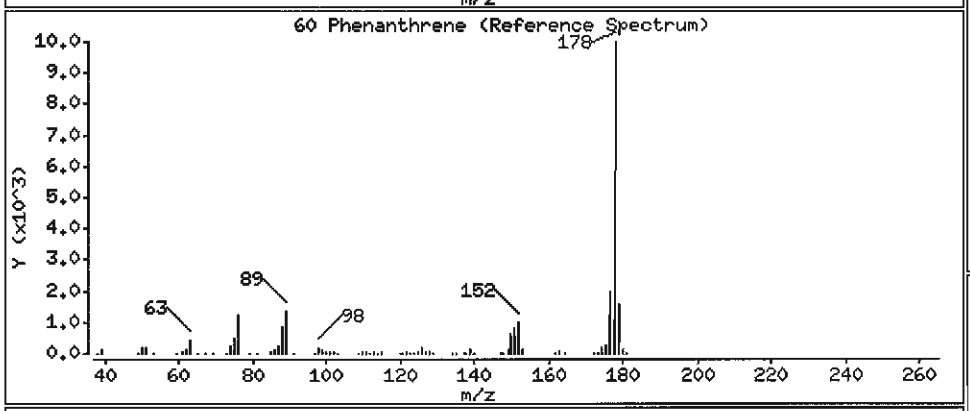
Column diameter: 0.32

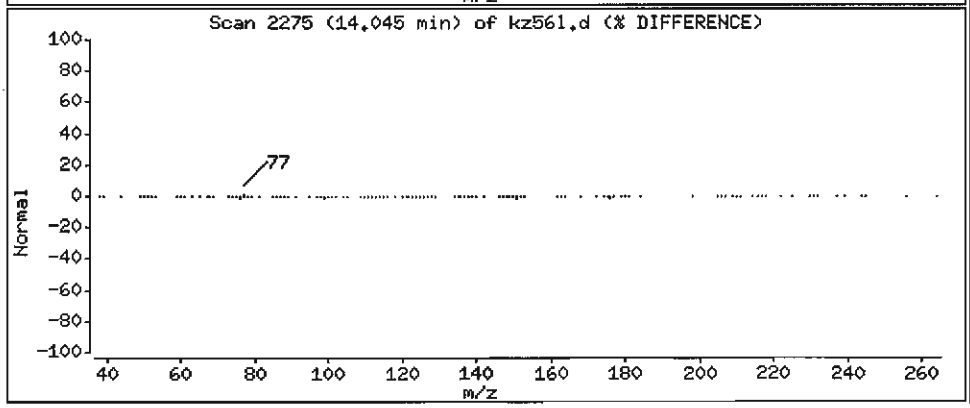
60 Phenanthrene

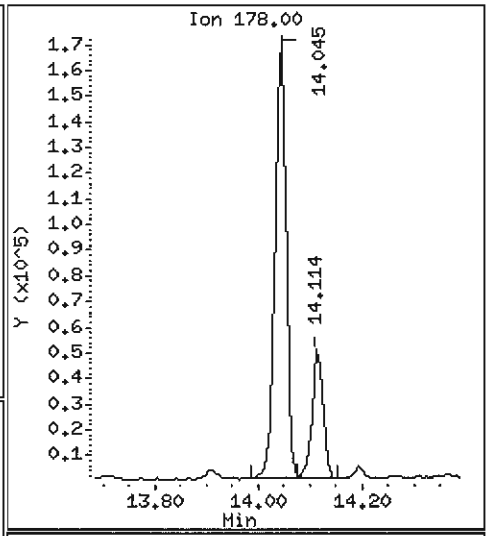
Concentration: 503.9 ug/kg

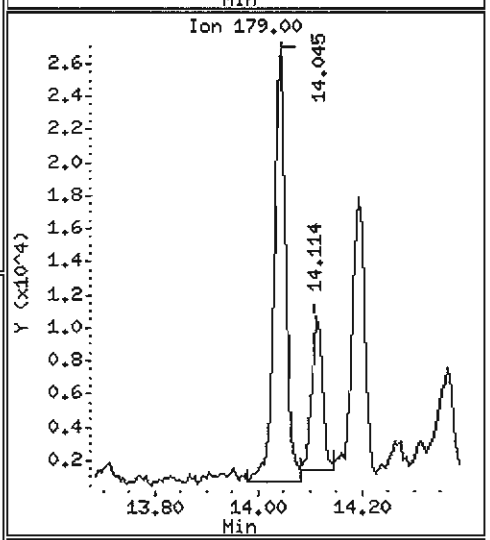


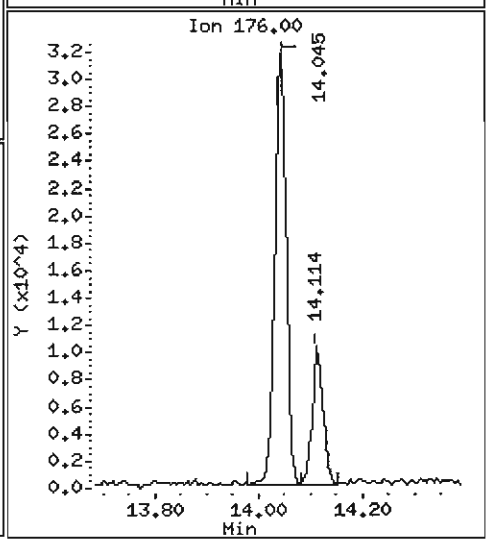












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

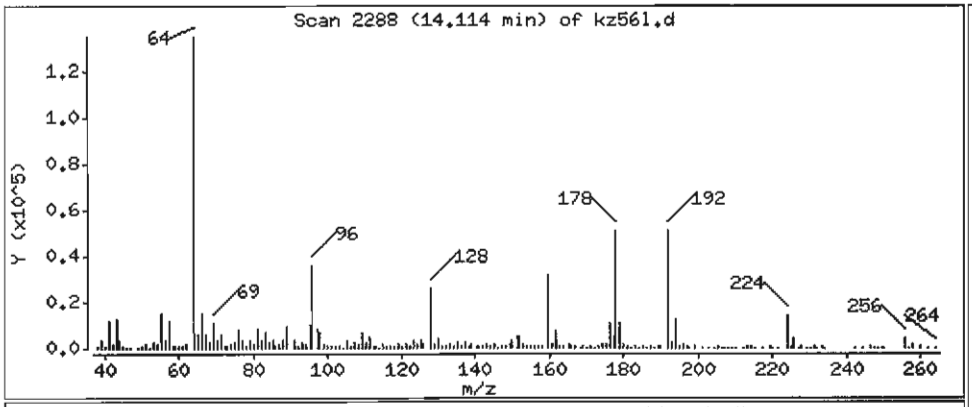
Operator: LJR/VTS

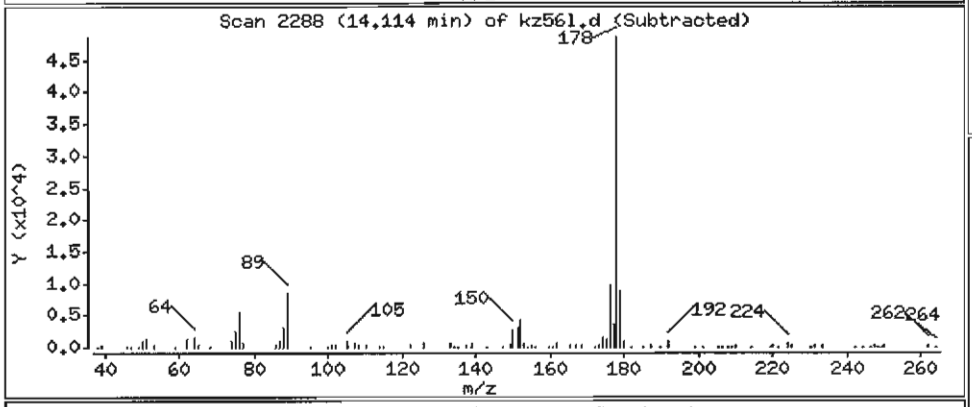
Column phase: ZB-5

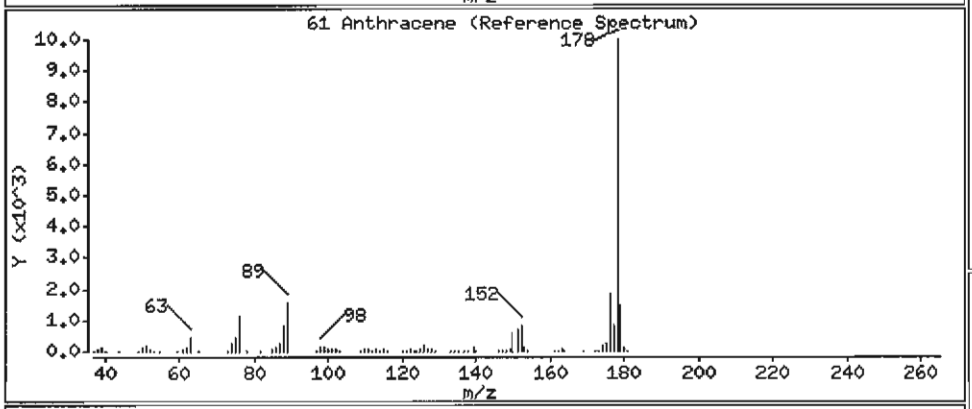
Column diameter: 0.32

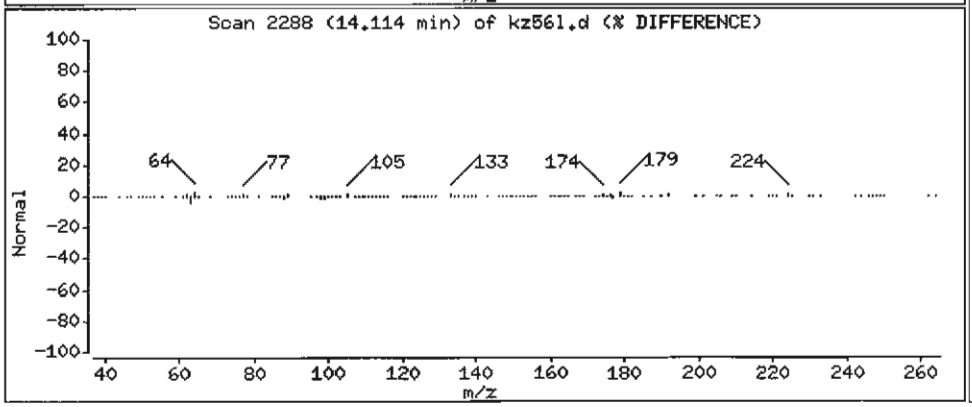
61 Anthracene

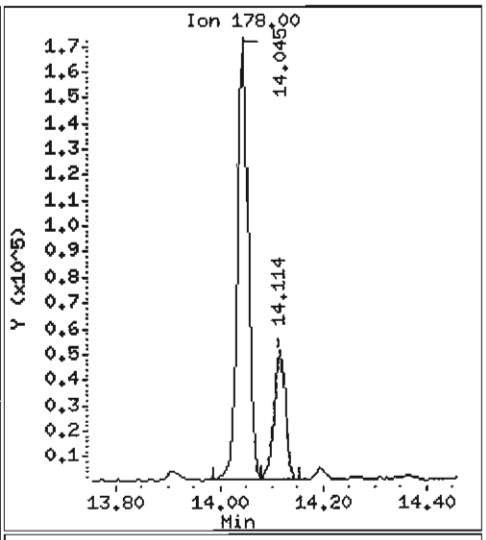
Concentration: 145.8 ug/kg

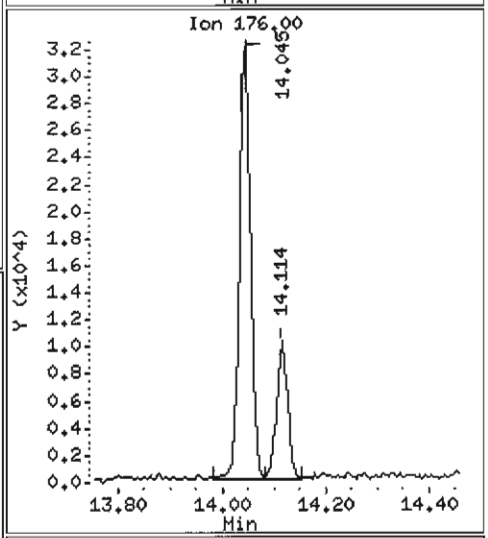


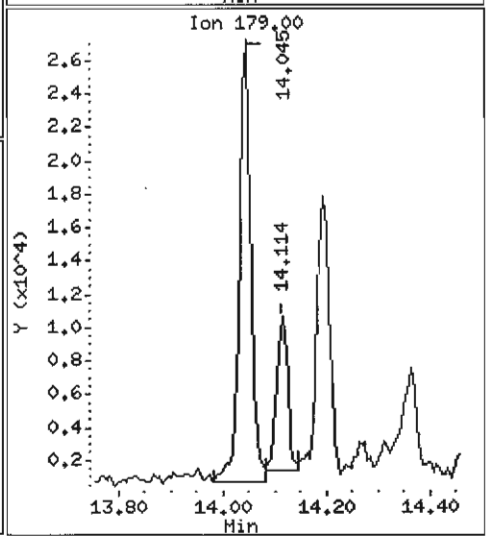












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

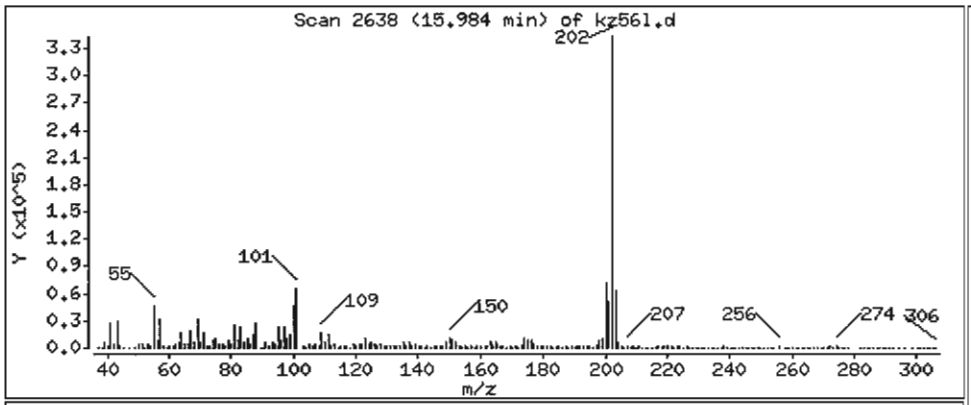
Operator: LJR/VTS

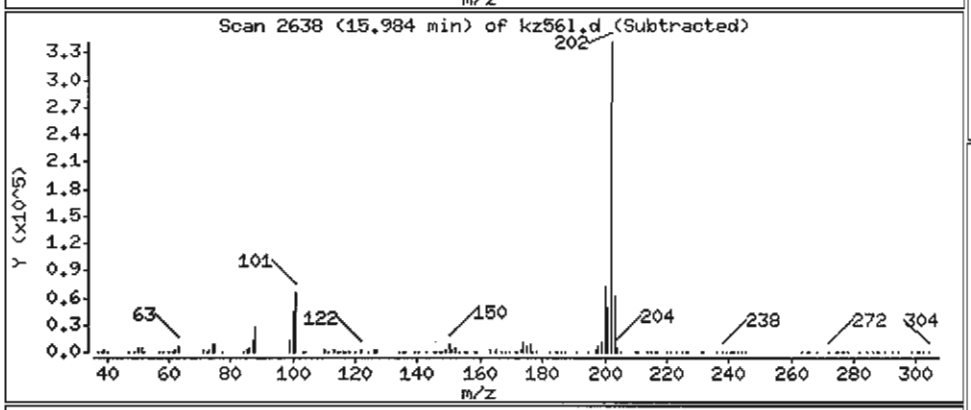
Column phase: ZB-5

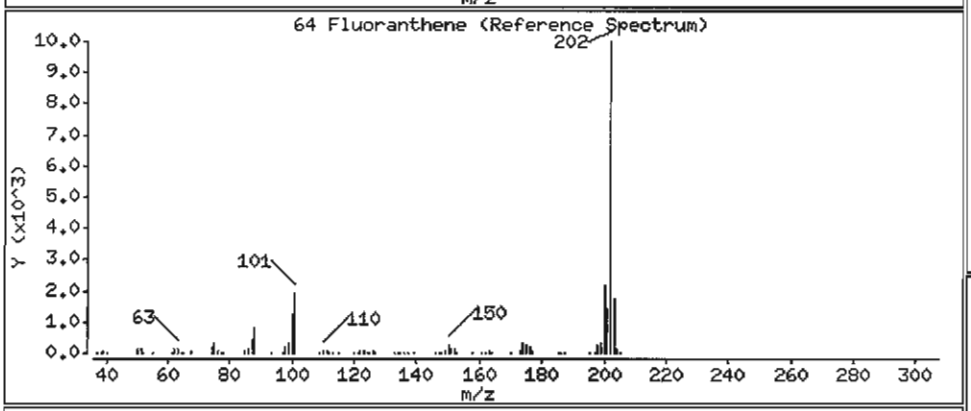
Column diameter: 0.32

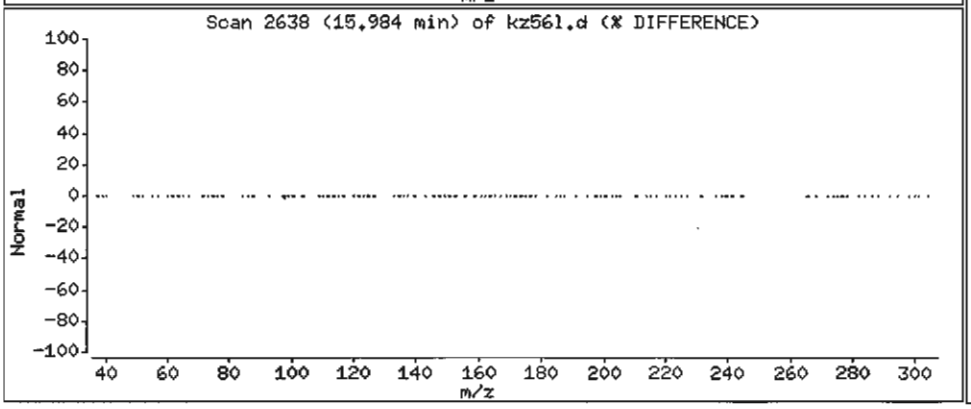
64 Fluoranthene

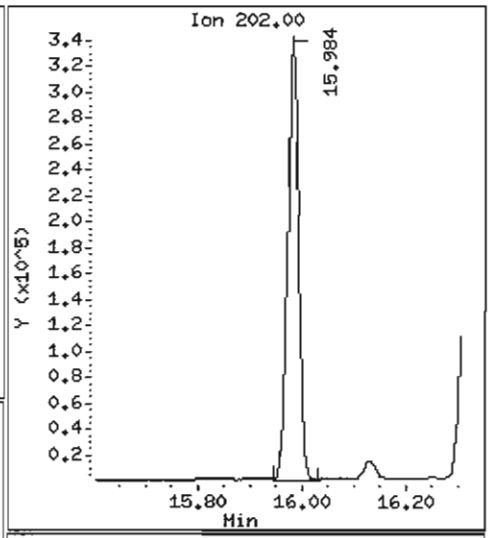
Concentration: 1084 ug/kg

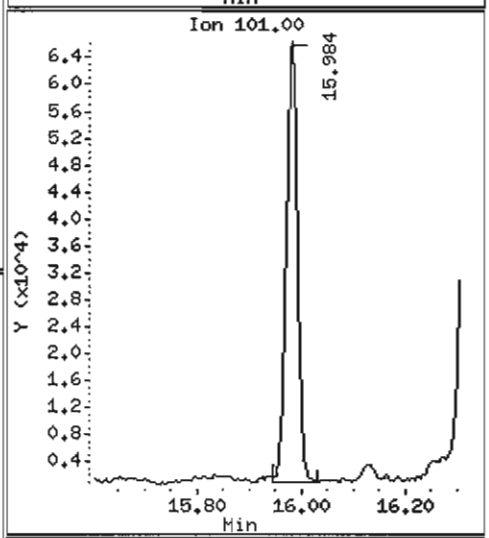


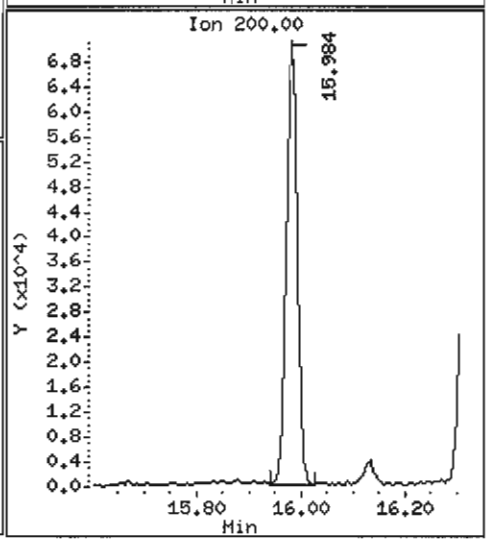












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

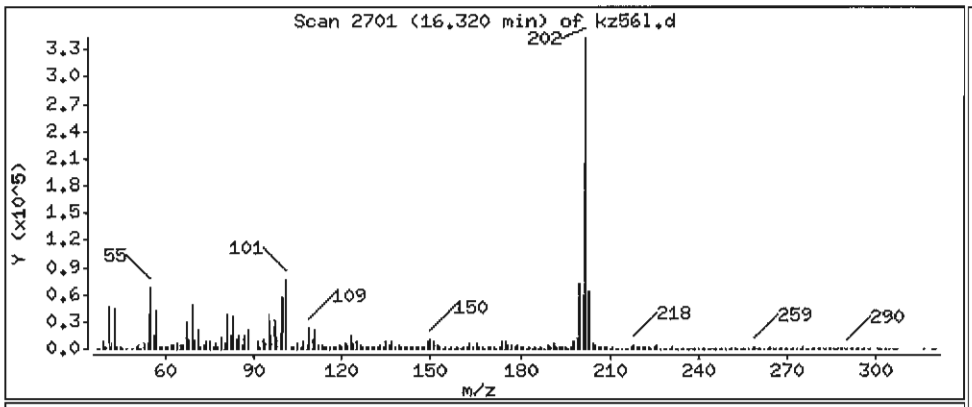
Operator: LJR/VTS

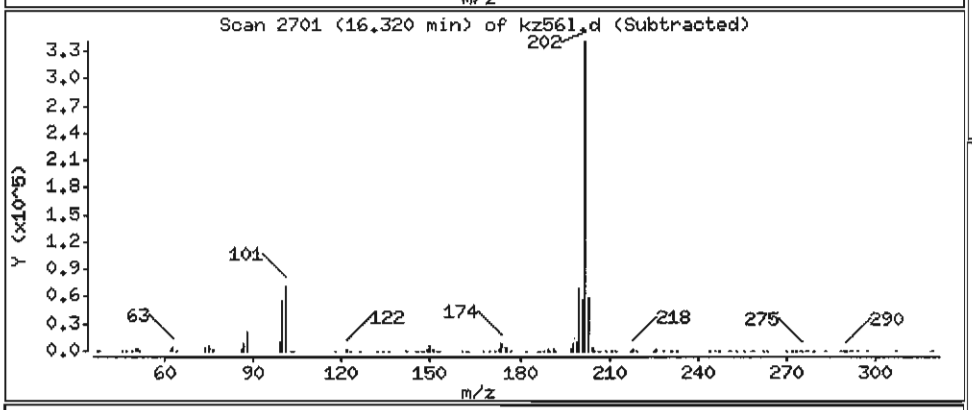
Column phase: ZB-5

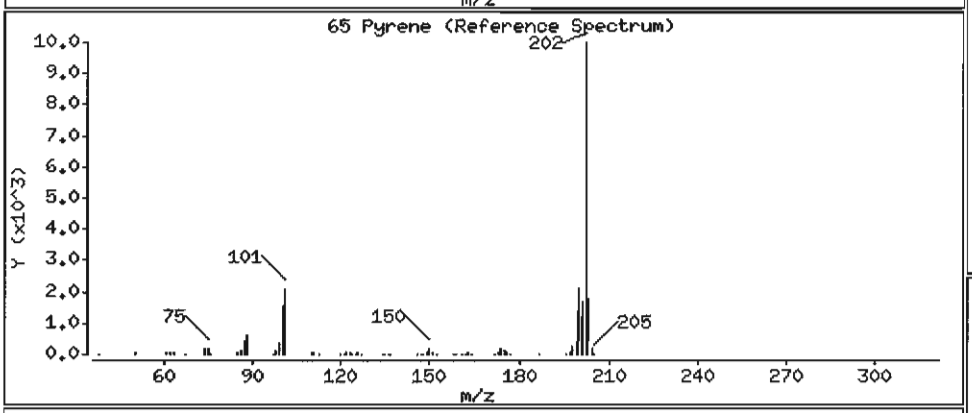
Column diameter: 0.32

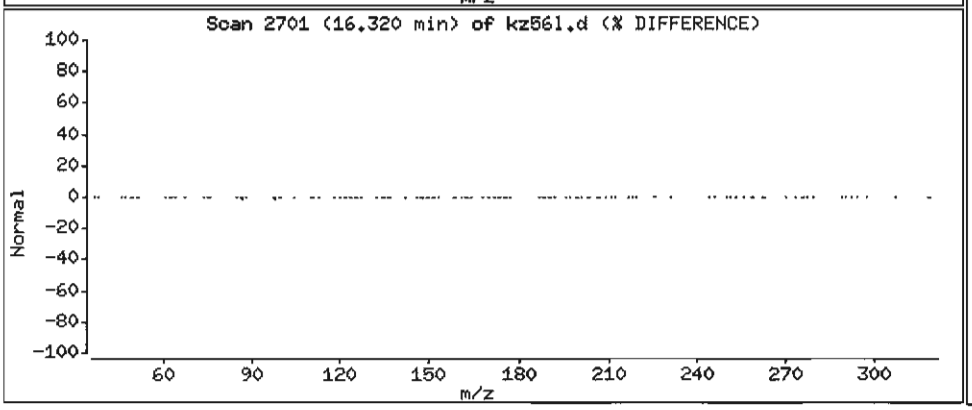
65 Pyrene

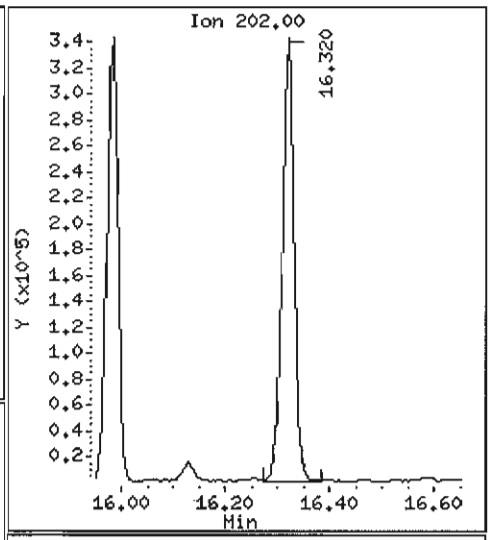
Concentration: 977.4 ug/kg

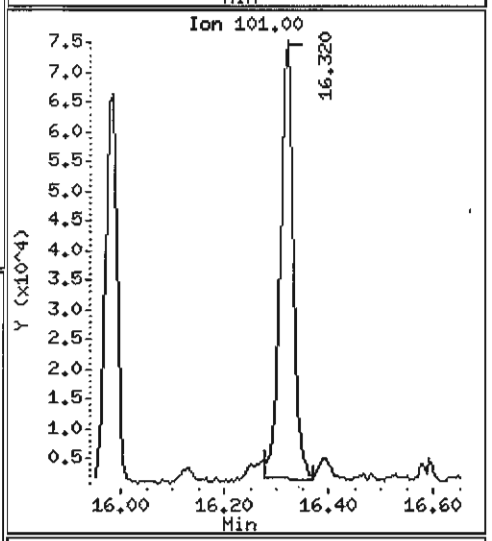


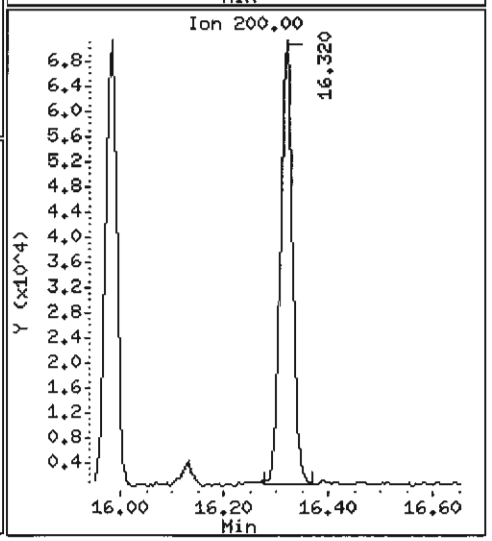












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

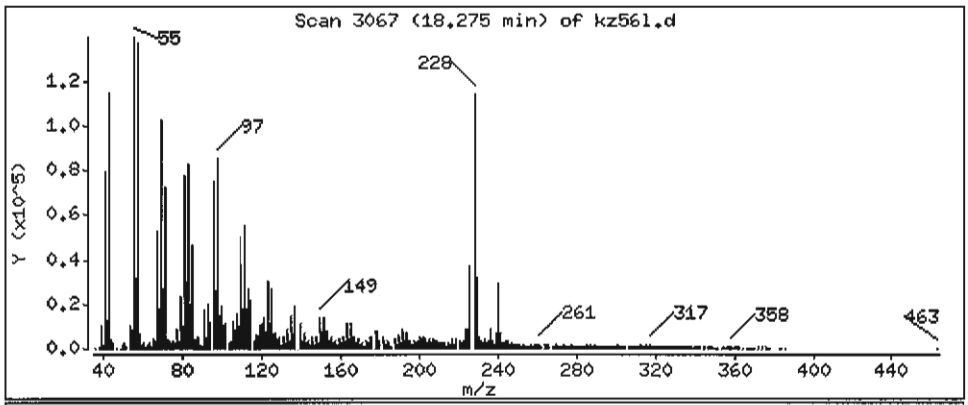
Operator: LJR/VTS

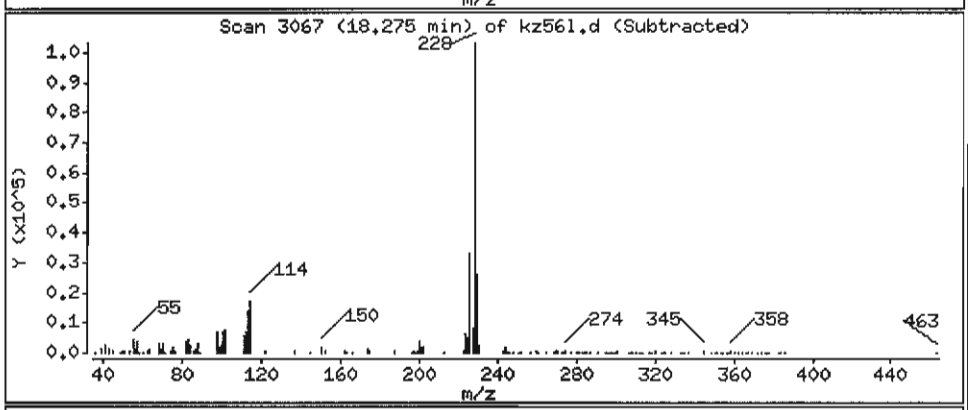
Column phase: ZB-5

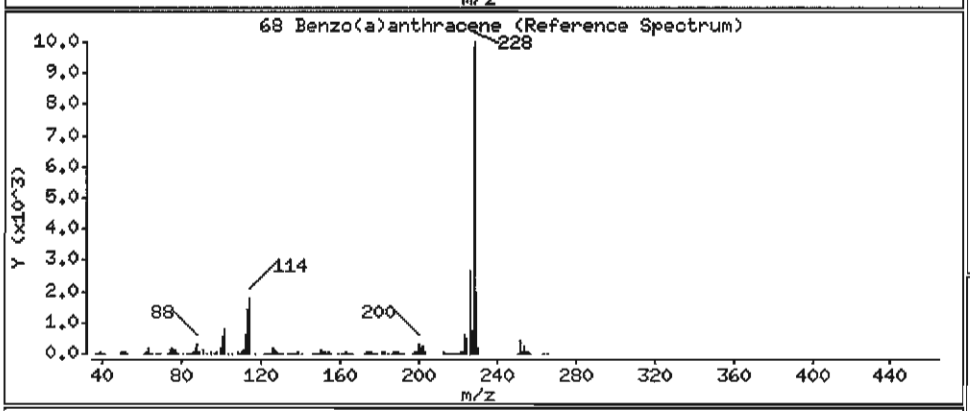
Column diameter: 0.32

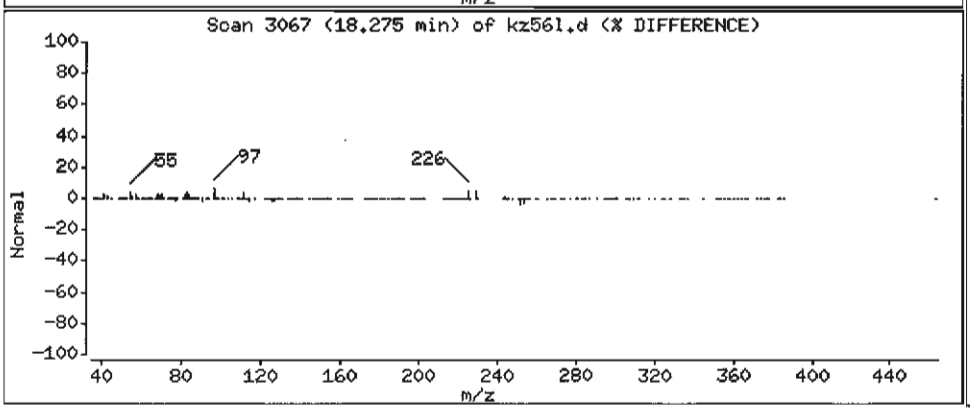
68 Benzo(a)anthracene

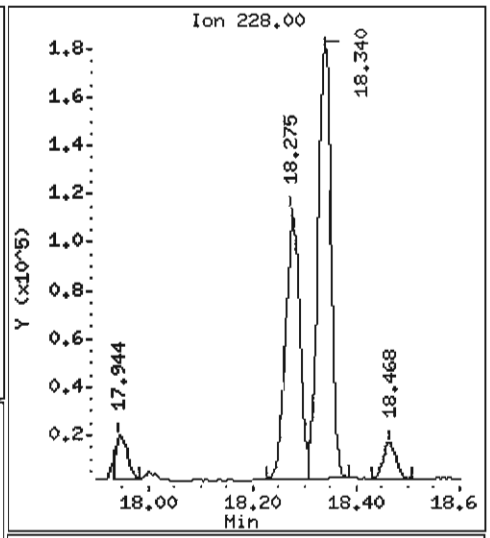
Concentration: 420.9 ug/kg

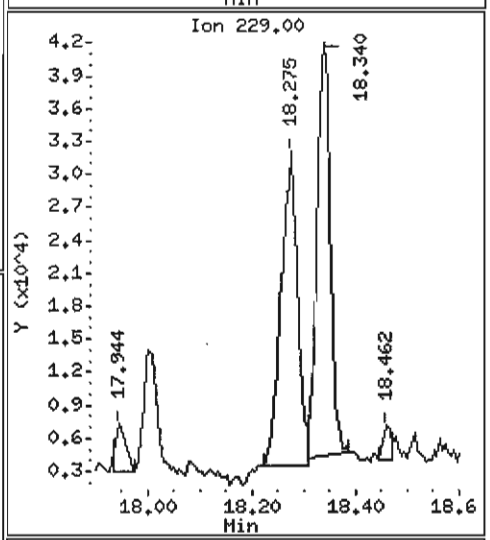


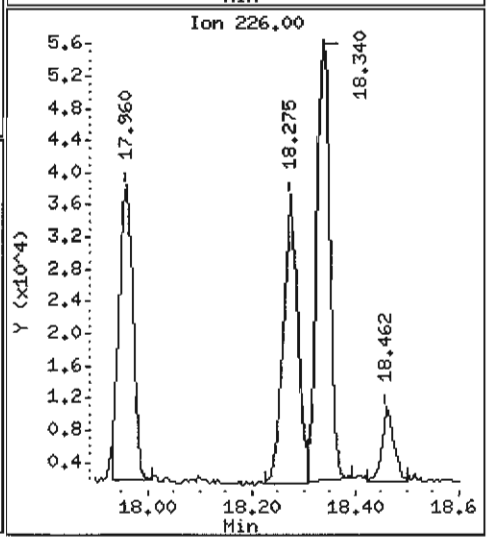












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

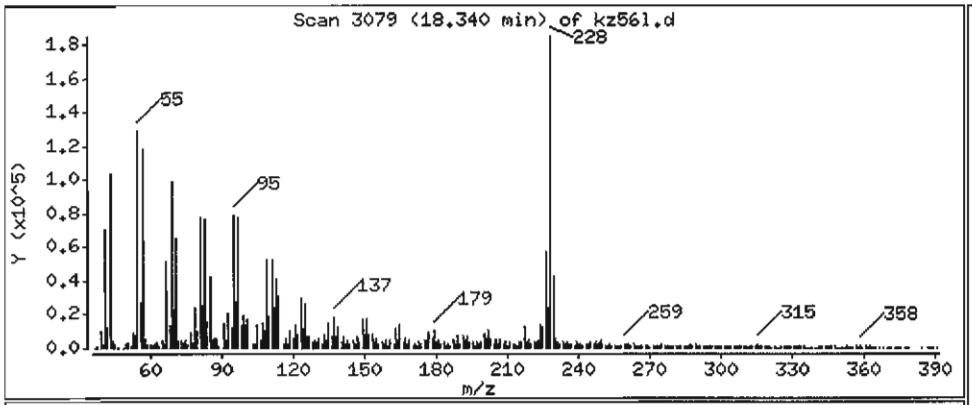
Operator: LJR/VTS

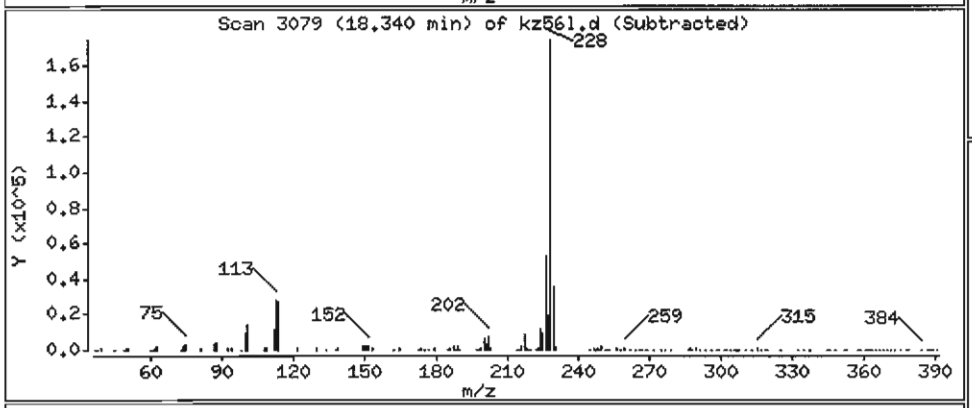
Column phase: ZB-5

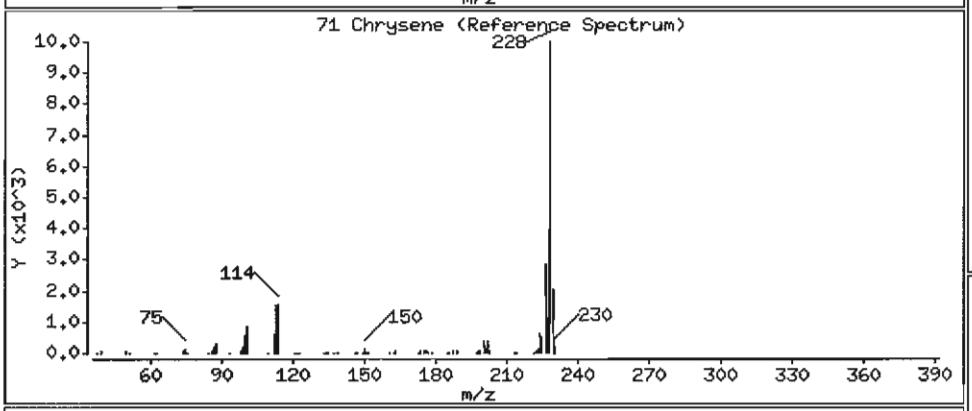
Column diameter: 0.32

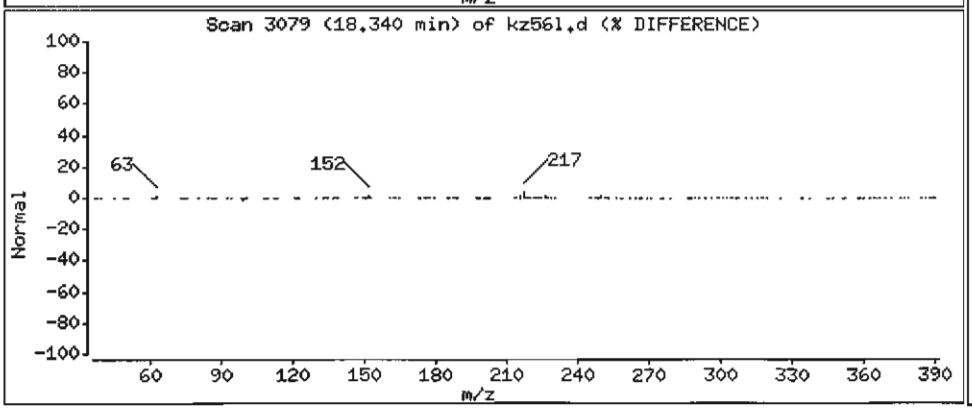
71 Chrysene

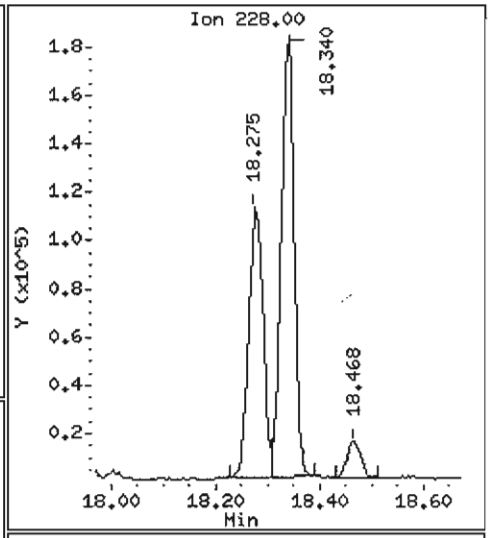
Concentration: 623.8 ug/kg

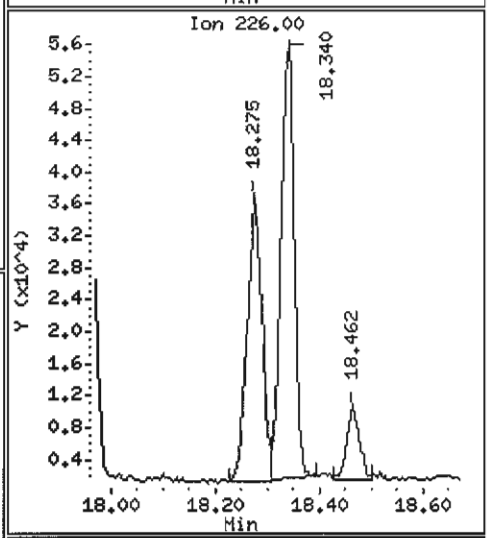


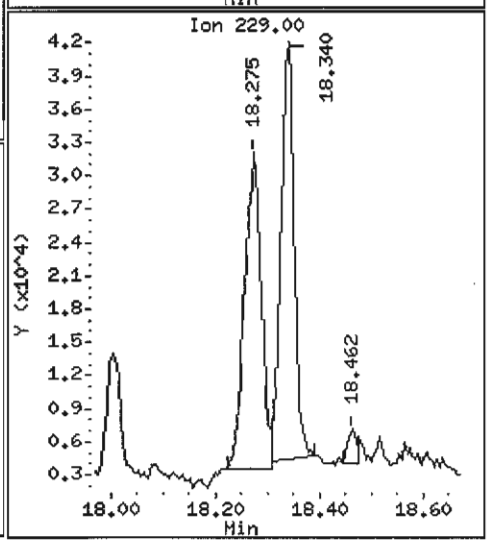












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

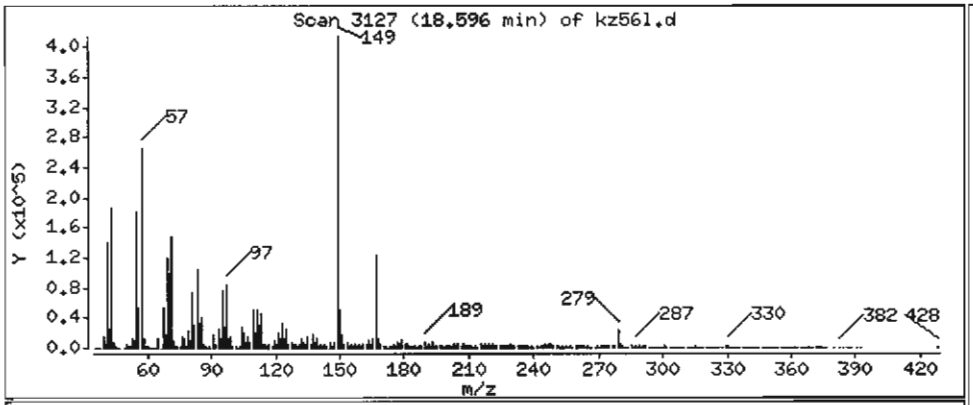
Operator: LJR/VTS

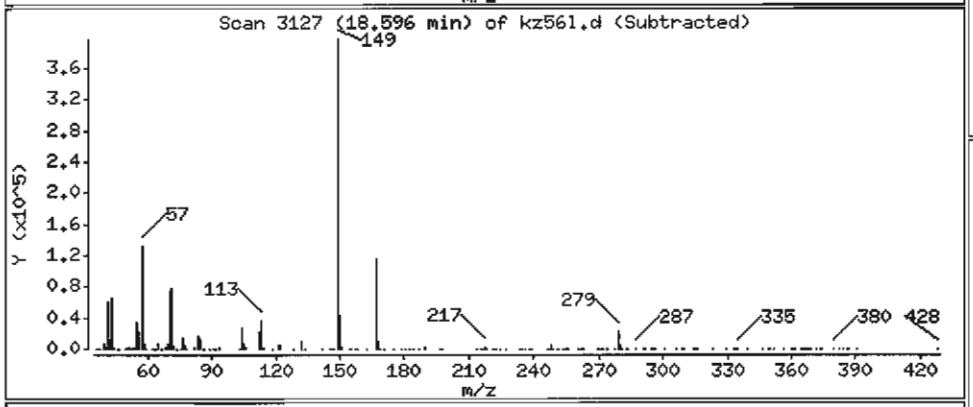
Column phase: ZB-5

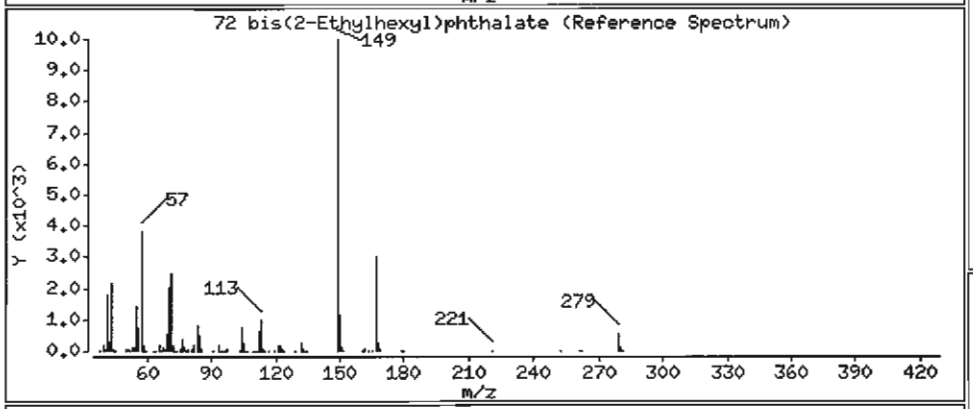
Column diameter: 0.32

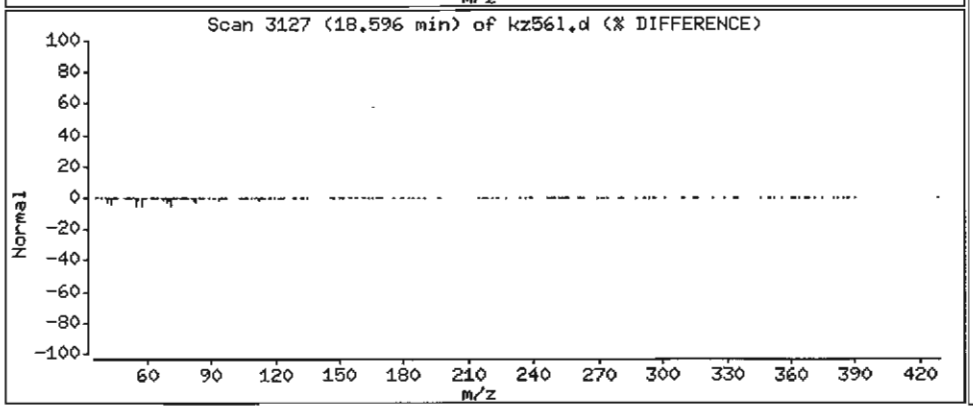
72 bis(2-Ethylhexyl)phthalate

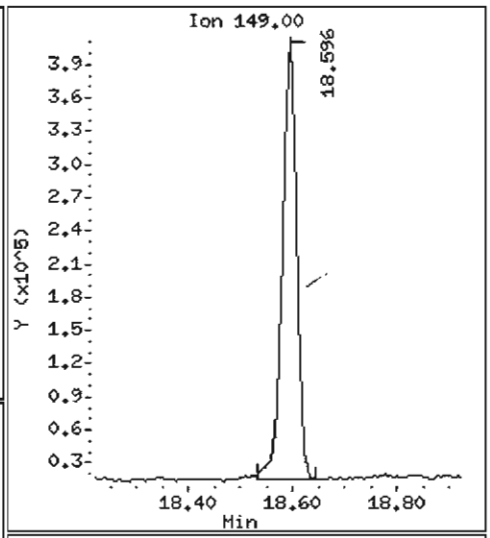
Concentration: 2182 ug/kg

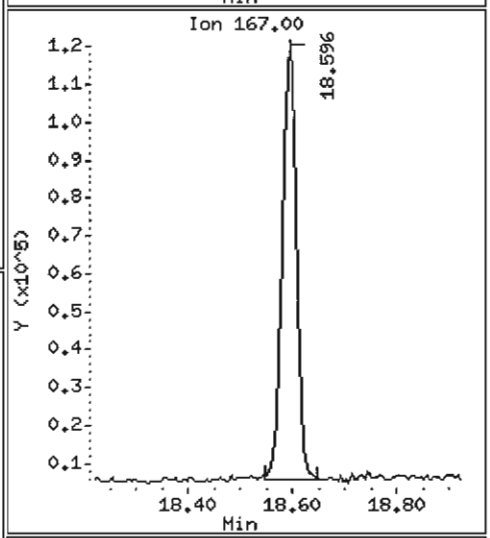


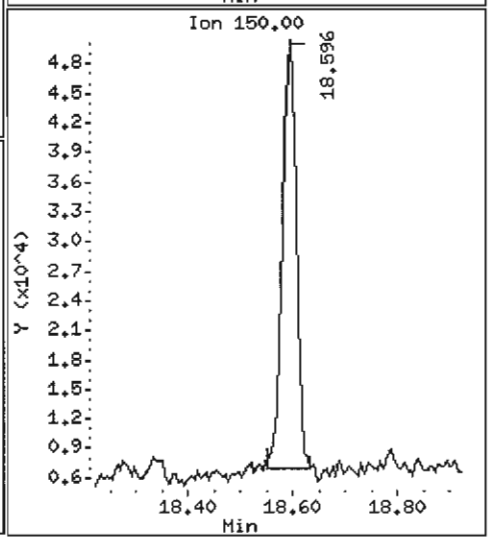












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

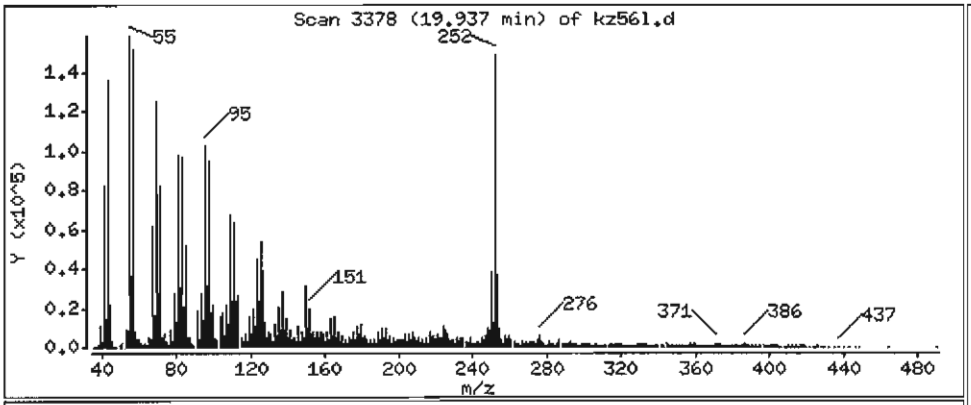
Operator: LJR/VTS

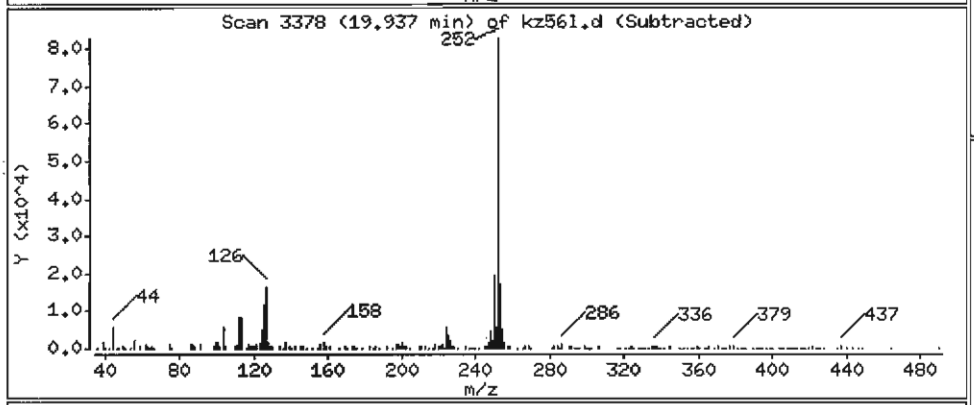
Column phase: ZB-5

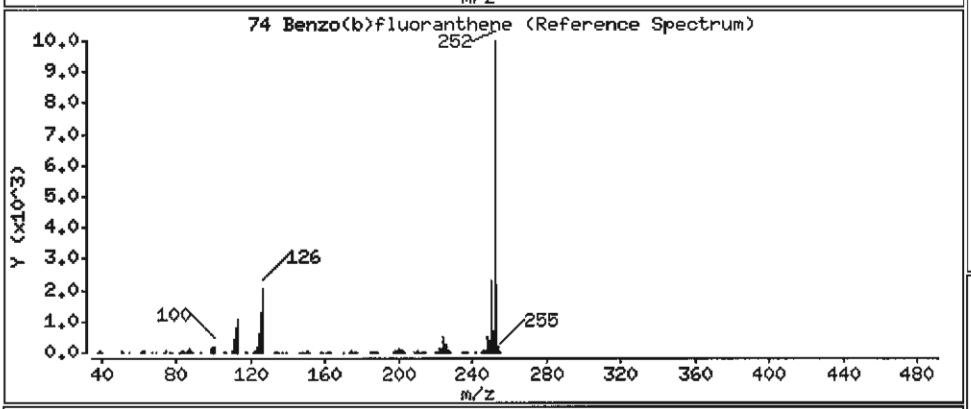
Column diameter: 0.32

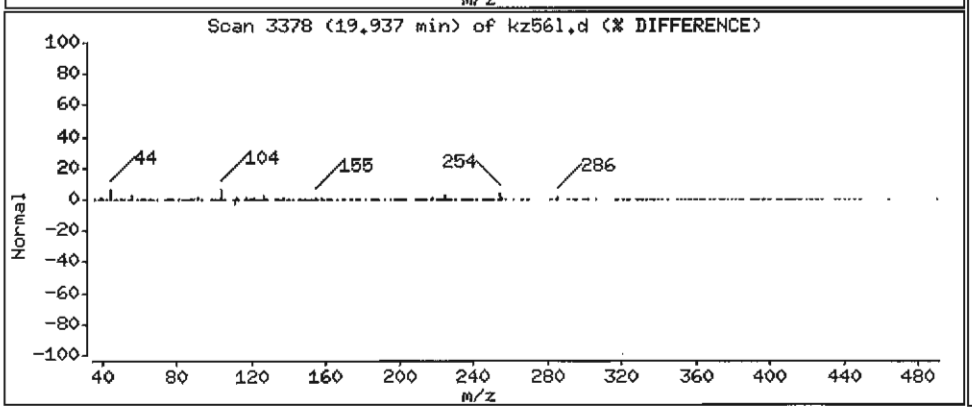
74 Benzo(b)fluoranthene

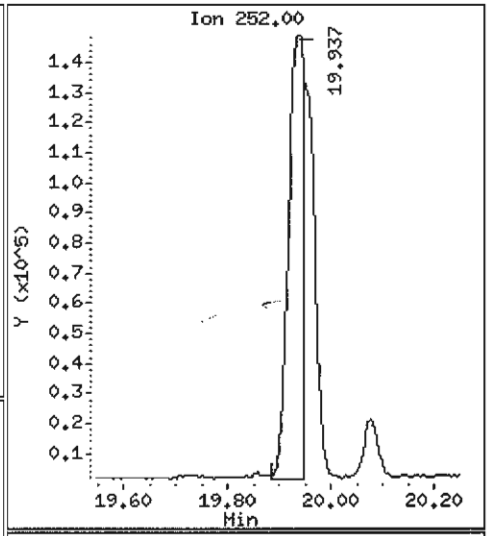
Concentration: 818.7 ug/kg

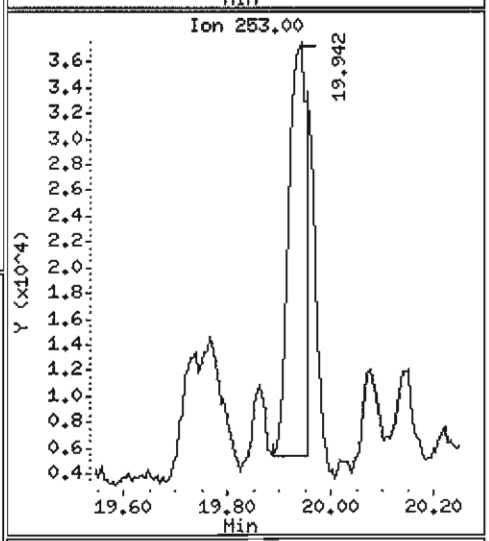


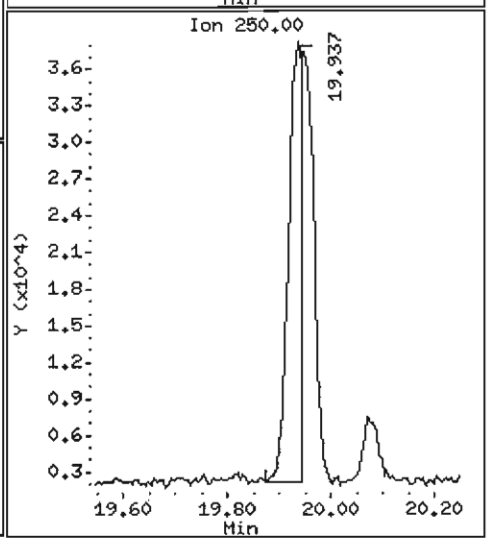












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

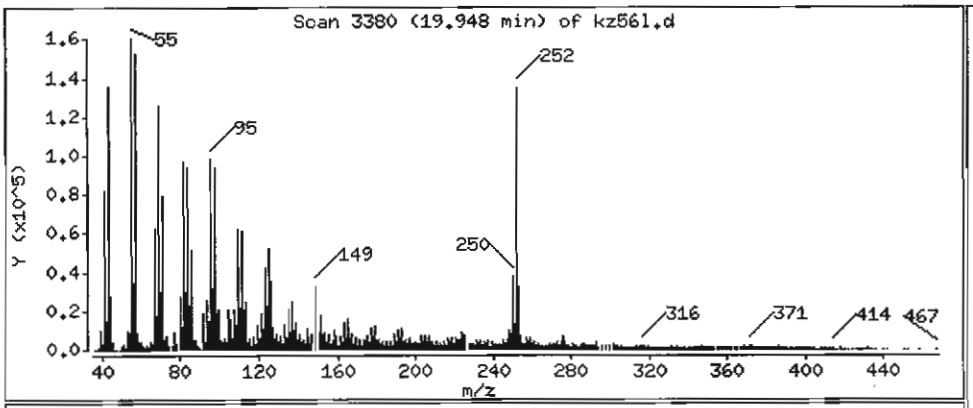
Operator: LJR/VTS

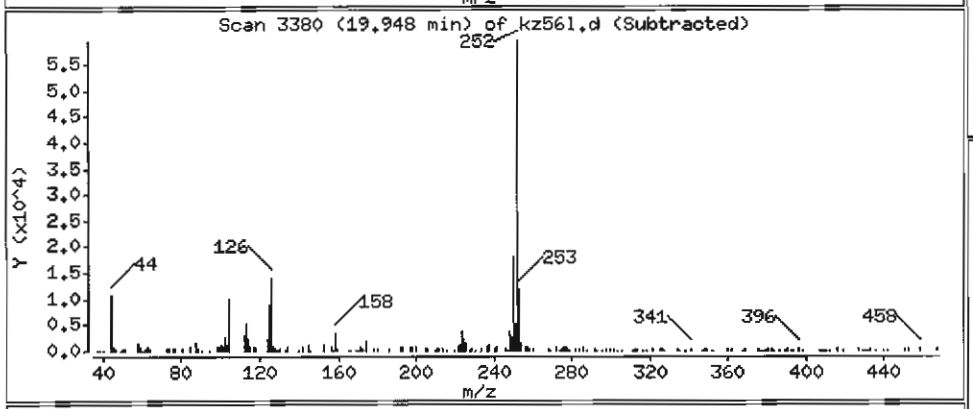
Column phase: ZB-5

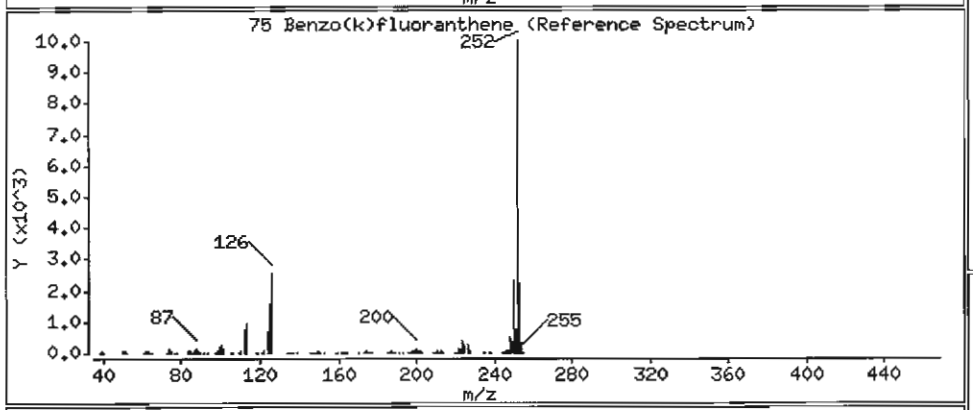
Column diameter: 0.32

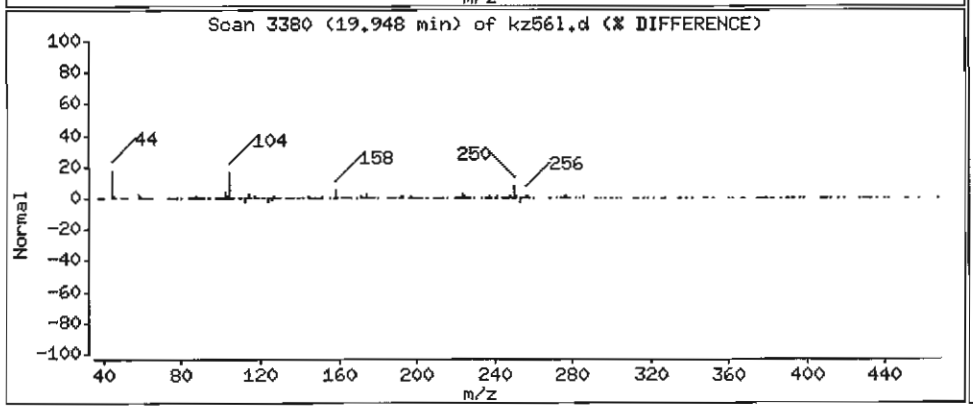
75 Benzo(k)fluoranthene

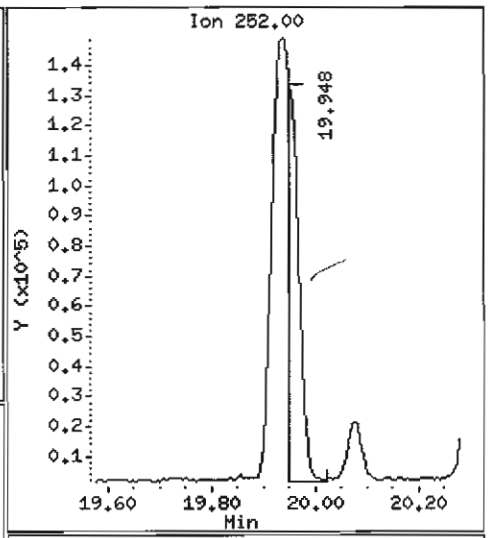
Concentration: 565.0 ug/kg

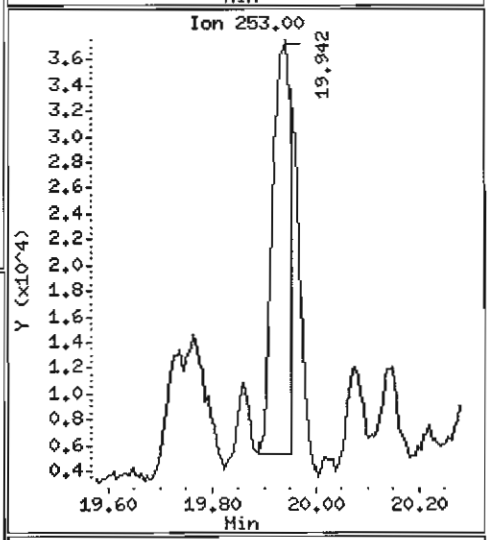


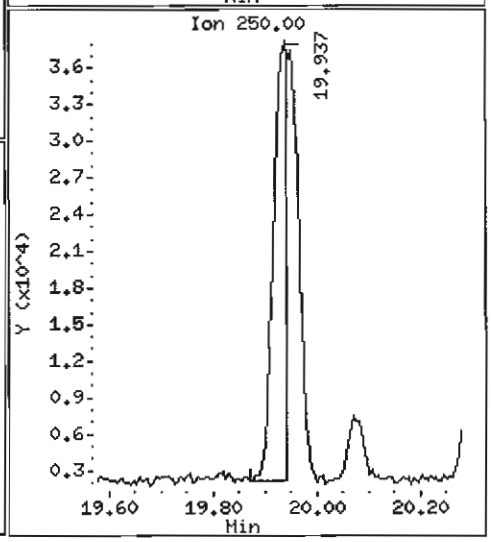












Data File: /chem1/nt6.i/20070529.b/kz56l.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

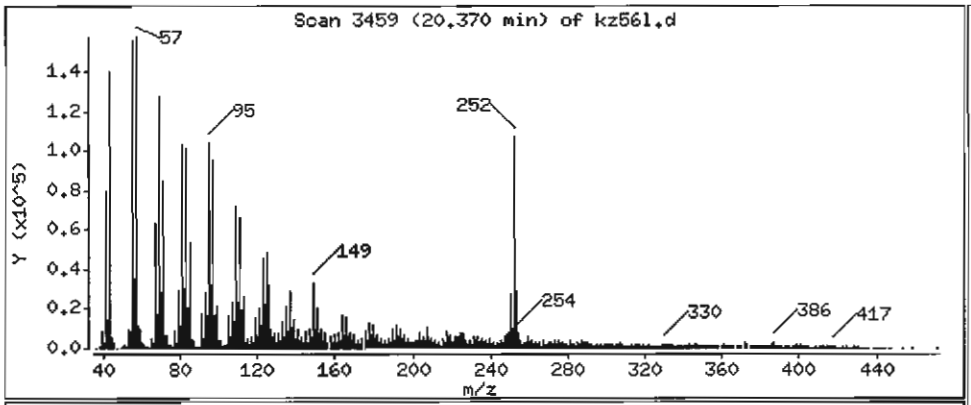
Operator: LJR/VTS

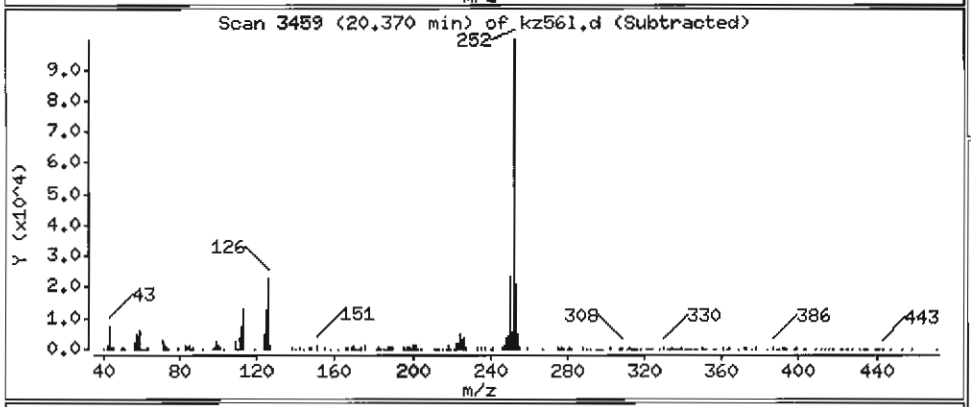
Column phase: ZB-5

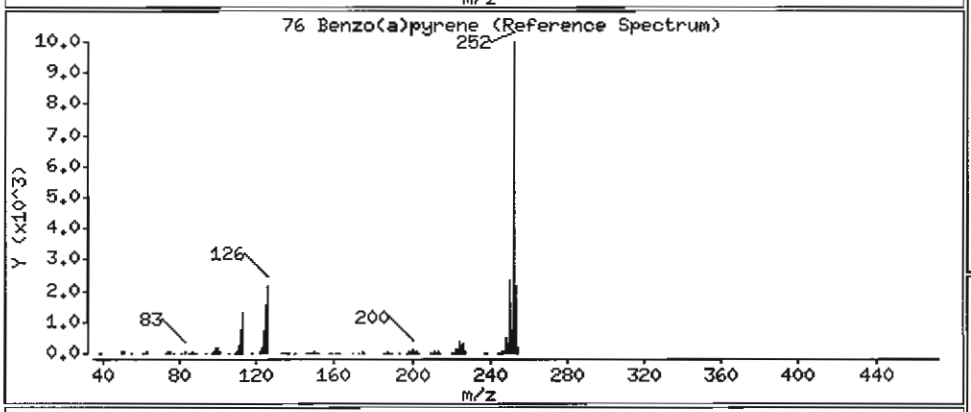
Column diameter: 0.32

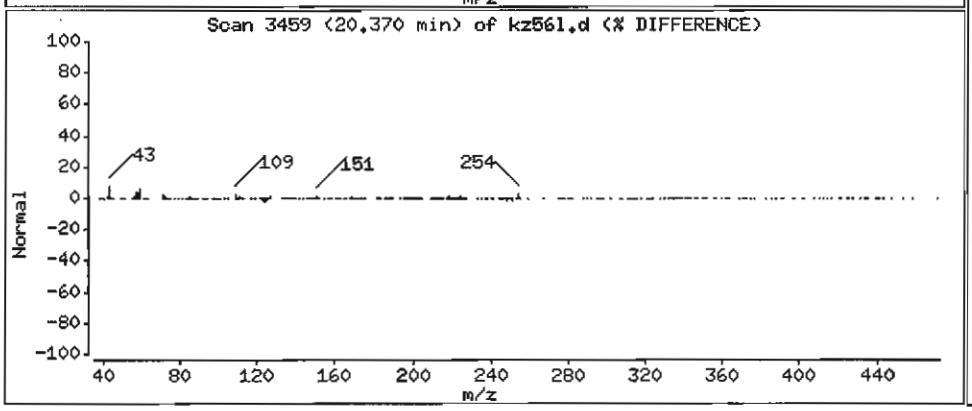
76 Benzo(a)pyrene

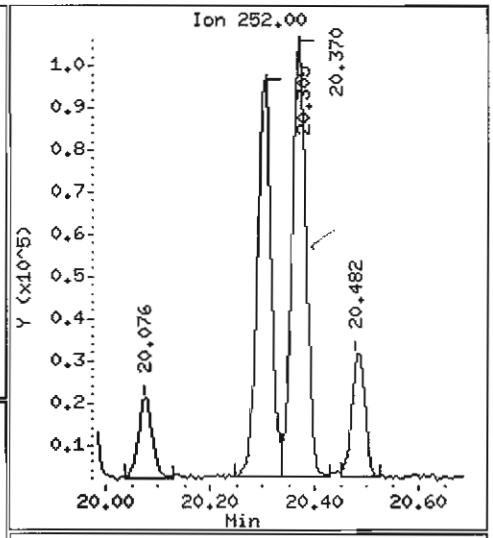
Concentration: 506.8 ug/kg

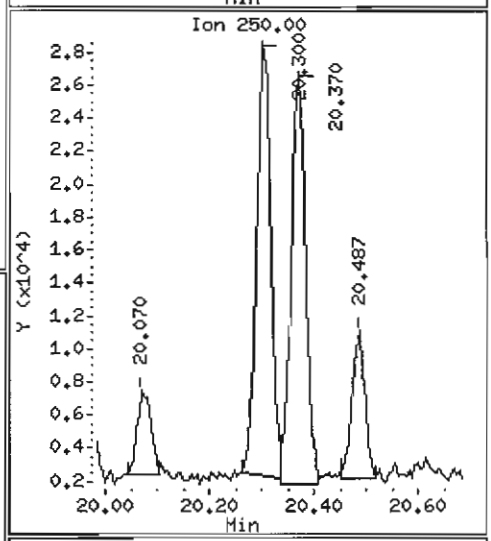


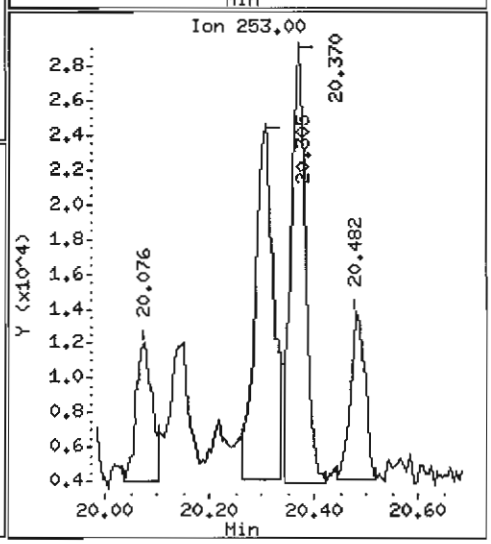












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

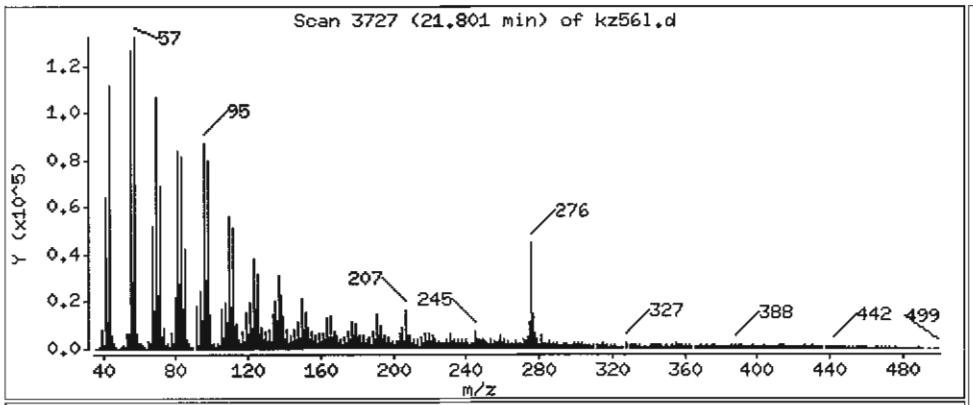
Operator: LJR/VTS

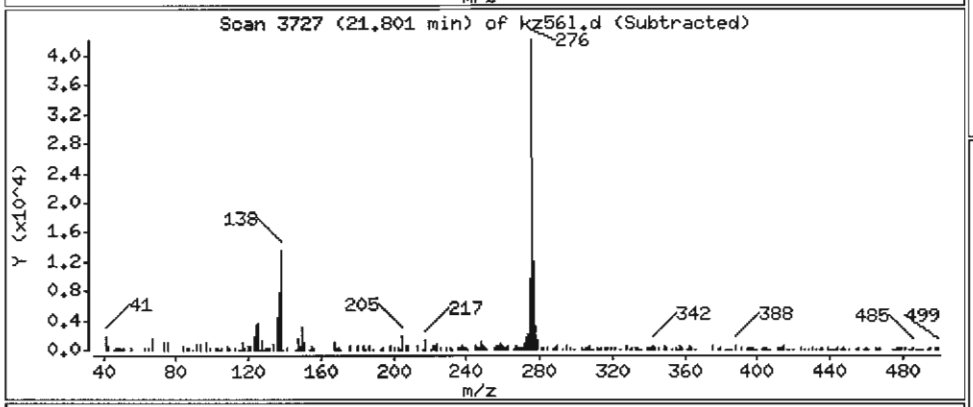
Column phase: ZB-5

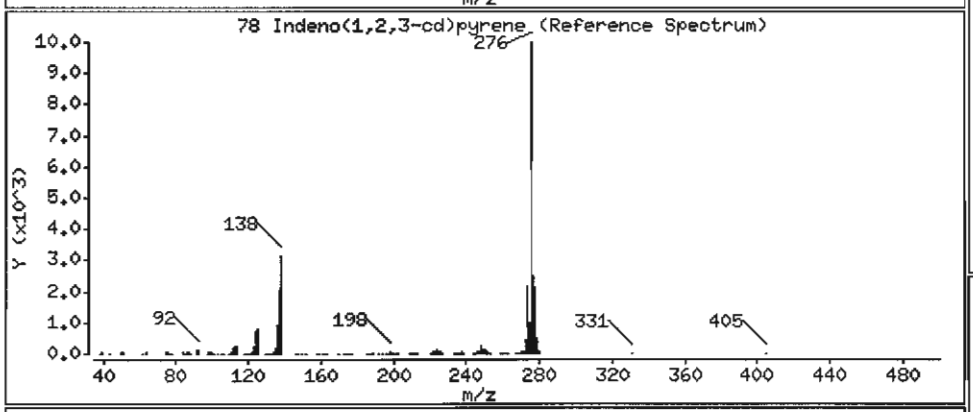
Column diameter: 0.32

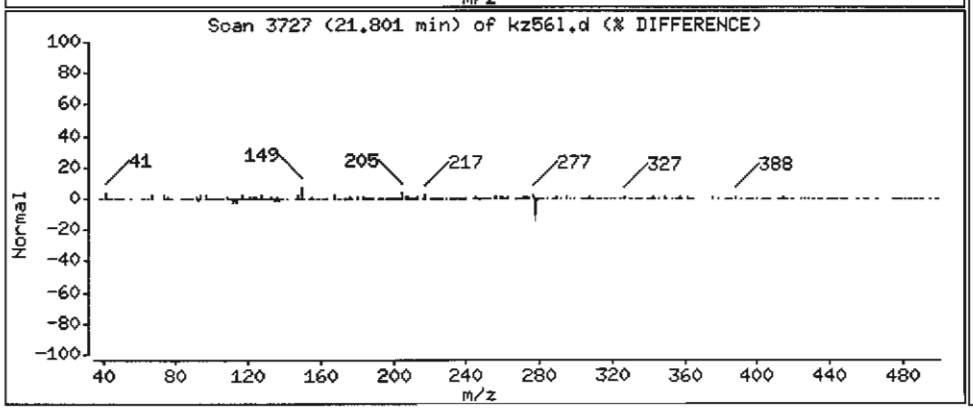
78 Indeno(1,2,3-cd)pyrene

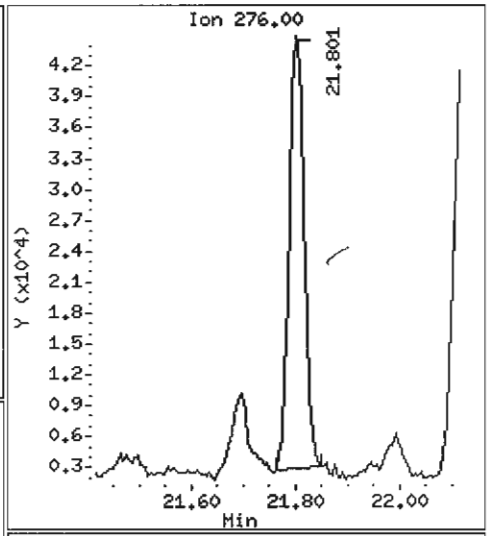
Concentration: 186.2 ug/kg

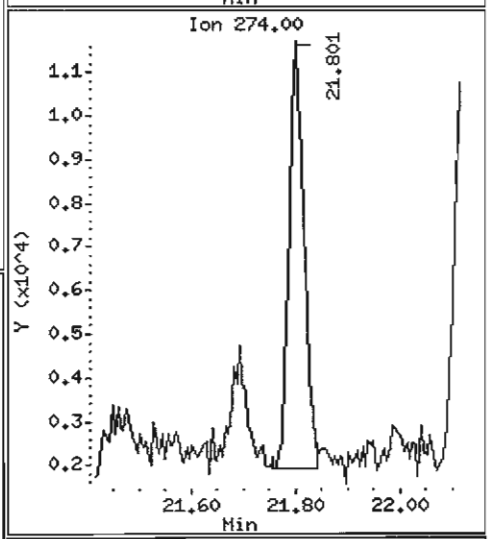


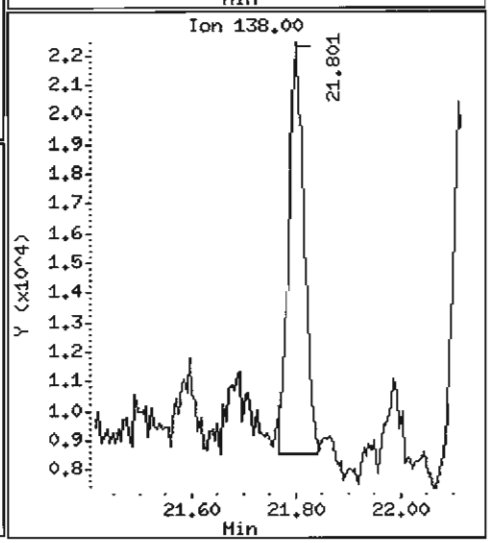












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

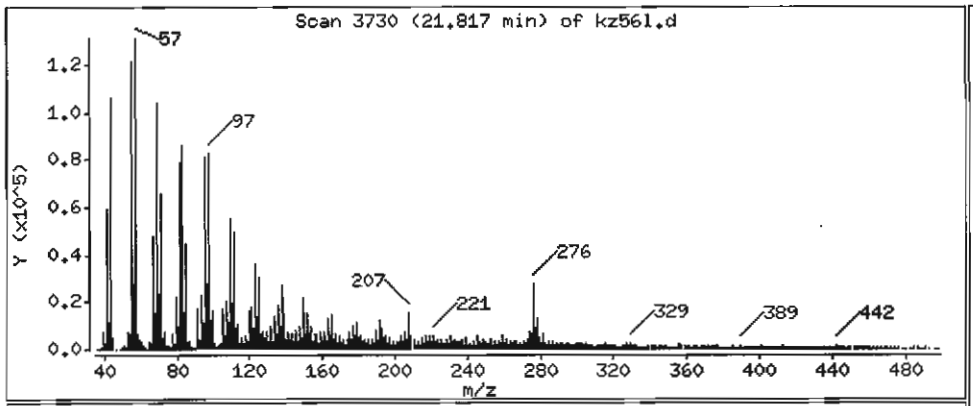
Operator: LJR/VTS

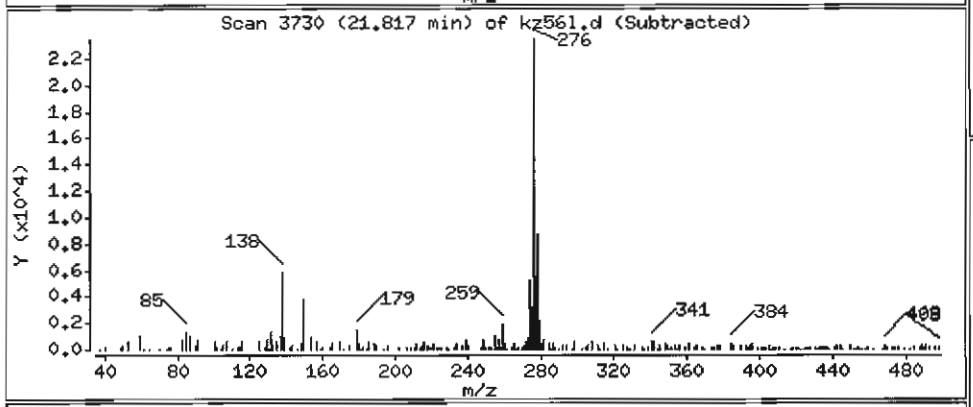
Column phase: ZB-5

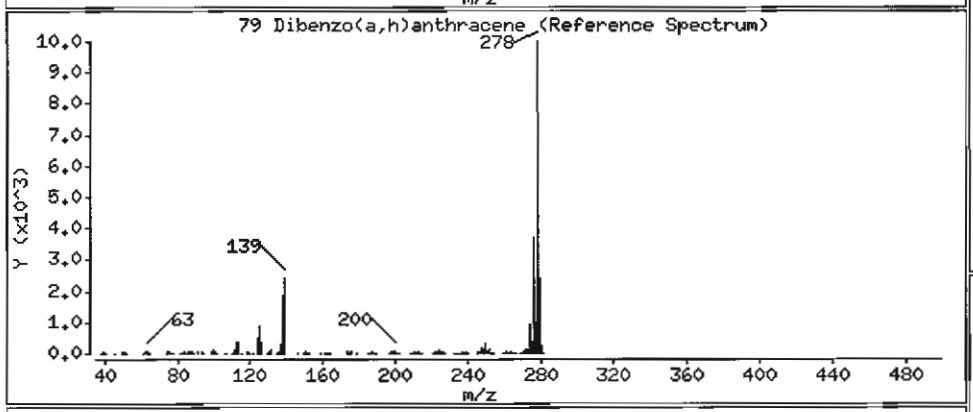
Column diameter: 0.32

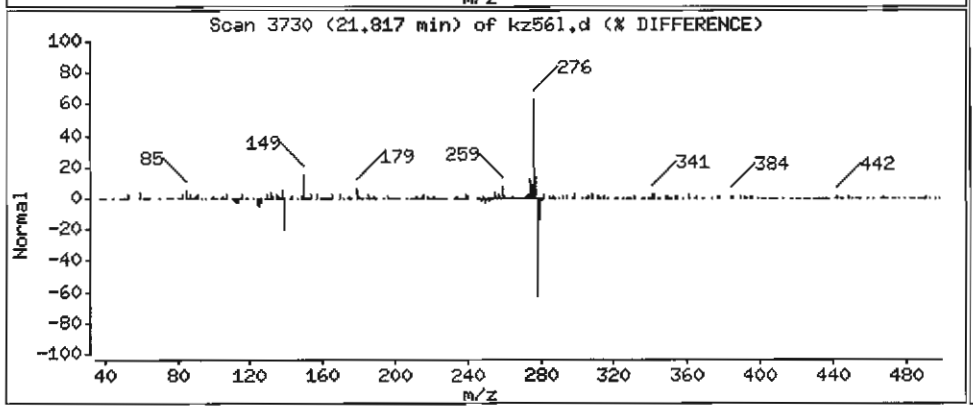
79 Dibenzo(a,h)anthracene

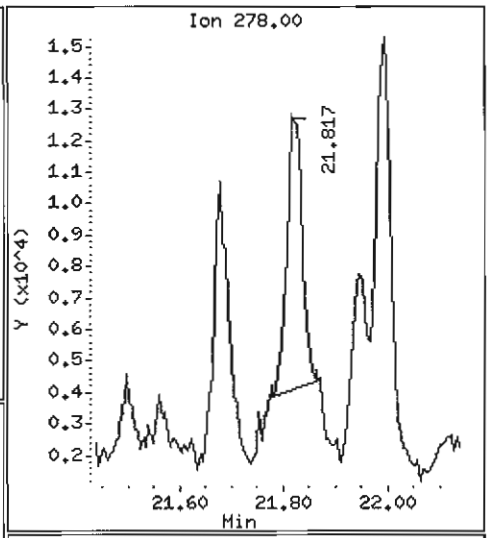
Concentration: 47.55 ug/kg

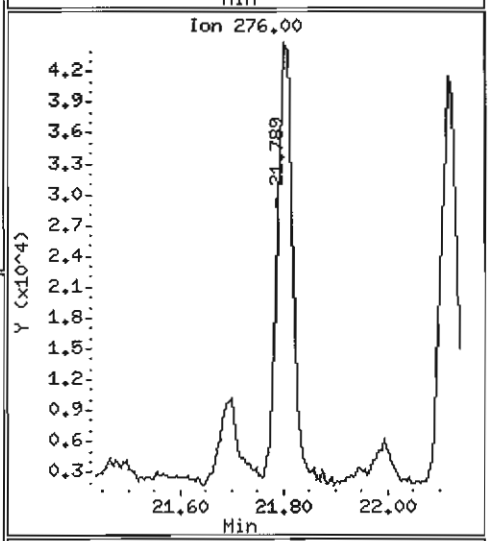


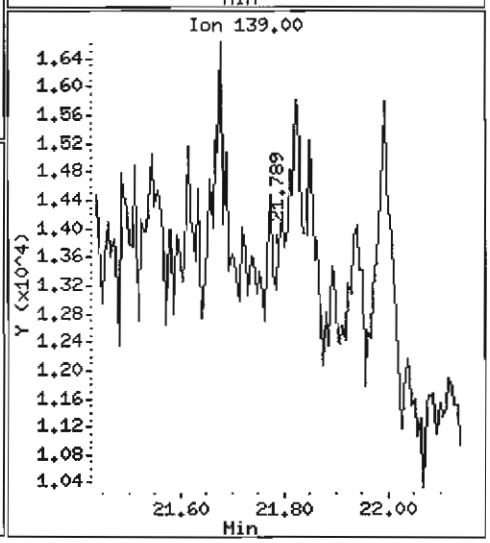












Data File: /chem1/nt6.i/20070529.b/kz56l.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

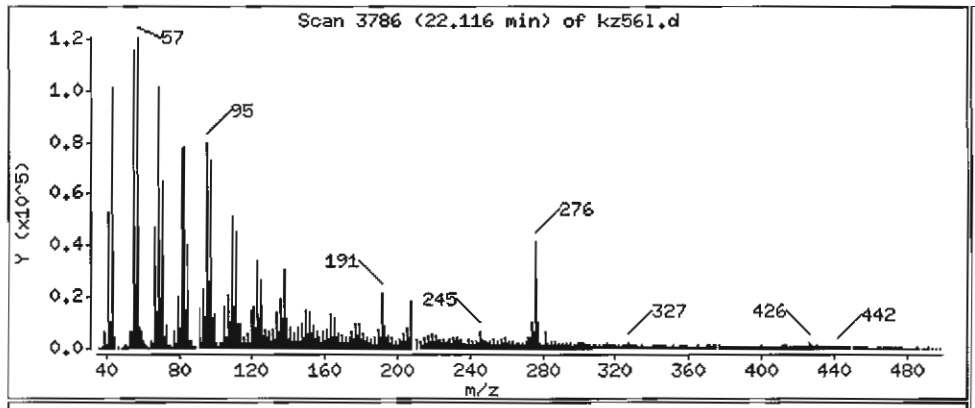
Operator: LJR/VTS

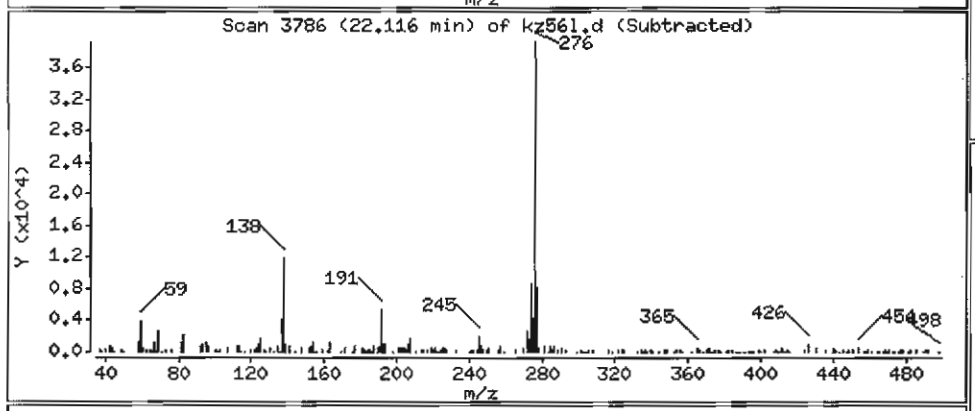
Column phase: ZB-5

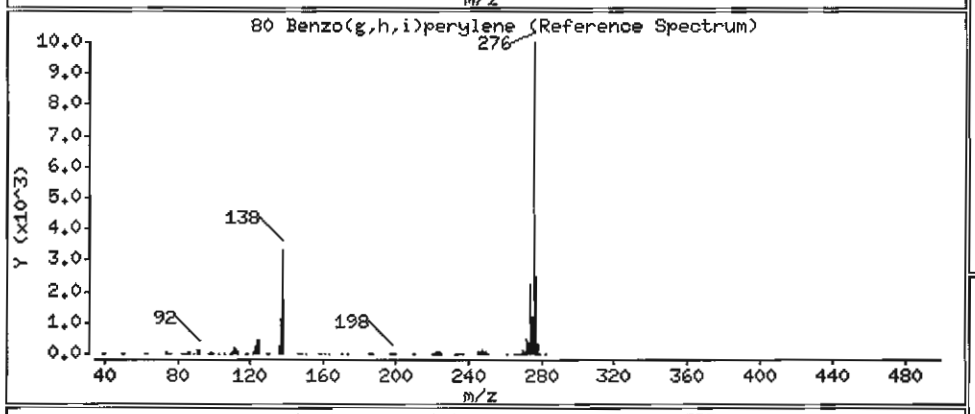
Column diameter: 0.32

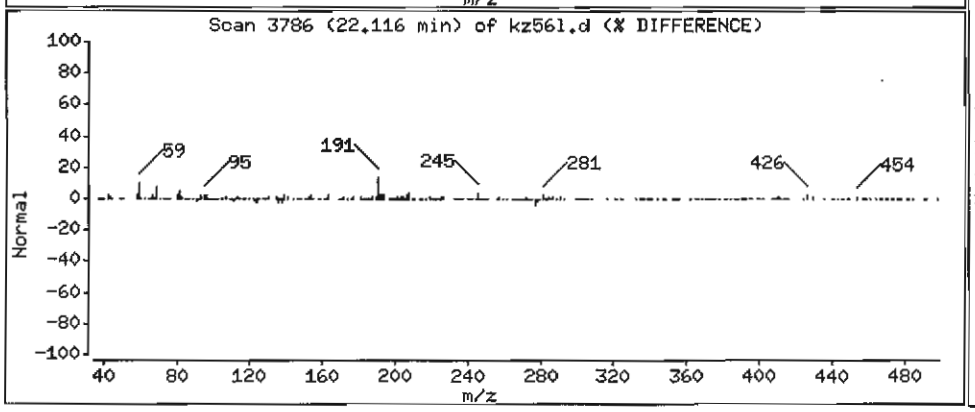
80 Benzo(g,h,i)perylene

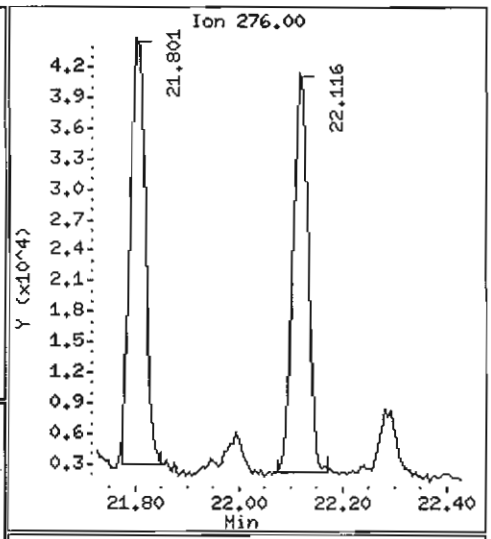
Concentration: 190.8 ug/kg

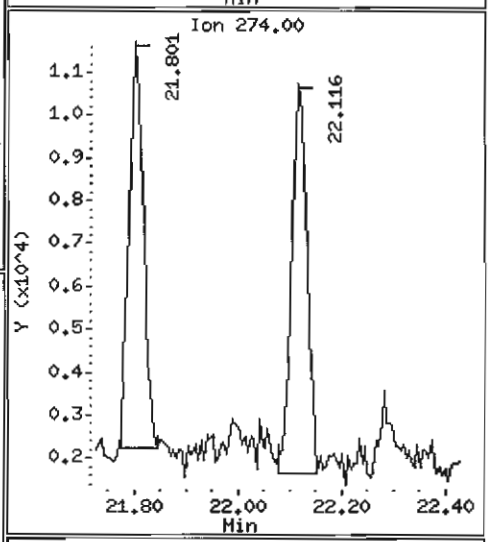


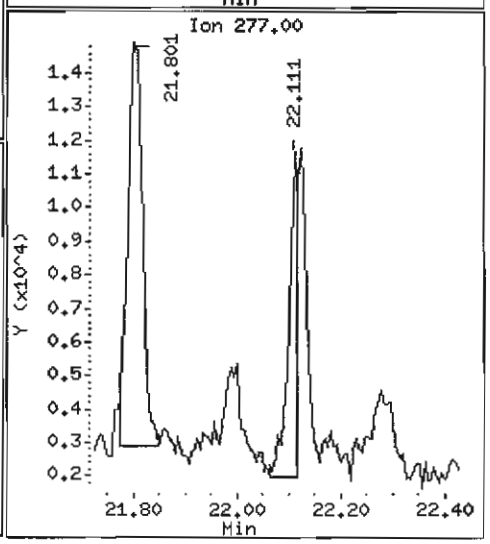












Data File: /chem1/nt6.i/20070529.b/kz561.d

Date : 29-MAY-2007 13:46

Client ID: Y3-RC12-S

Instrument: nt6.i

Sample Info: KZ56L,3

Volume Injected (uL): 1.0

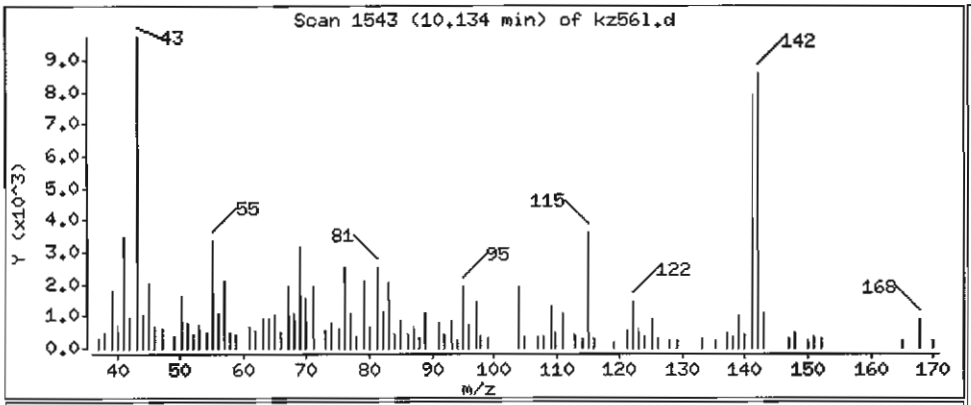
Operator: LJR/VTS

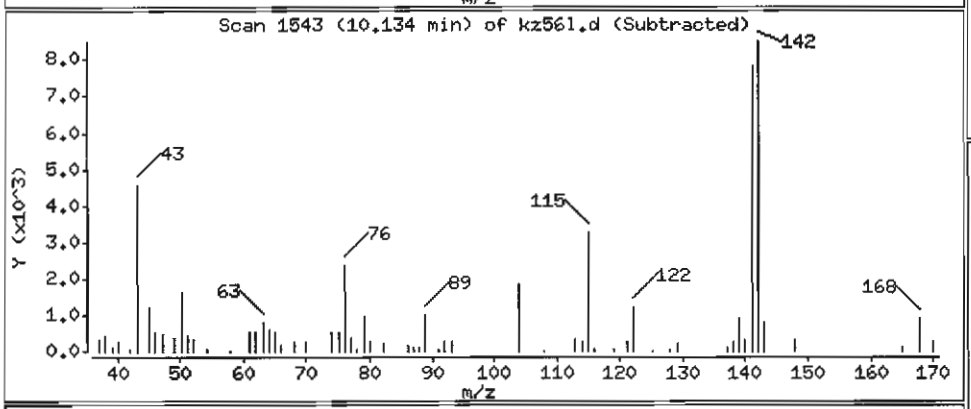
Column phase: ZB-5

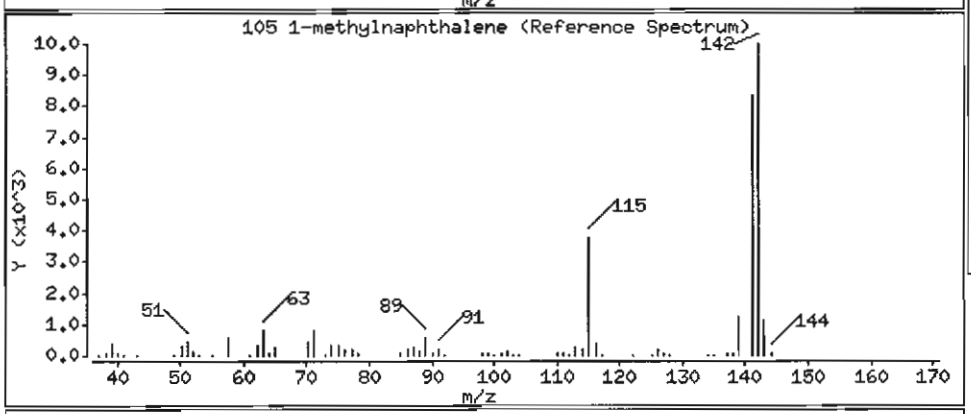
Column diameter: 0.32

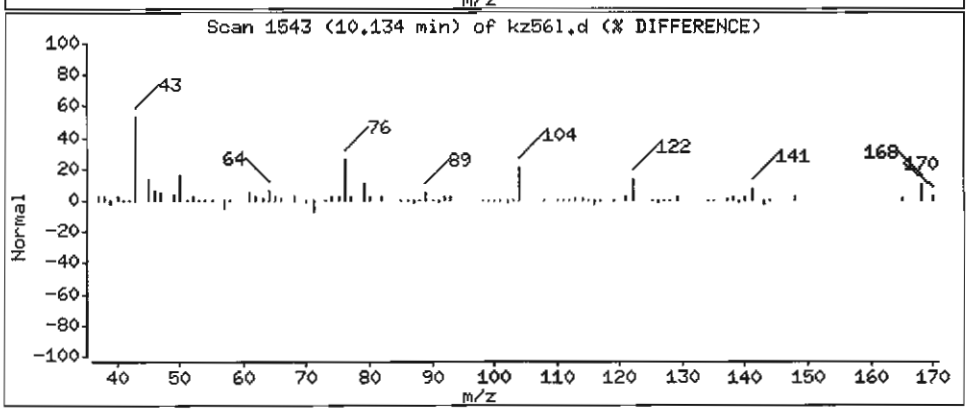
105 1-methylnaphthalene

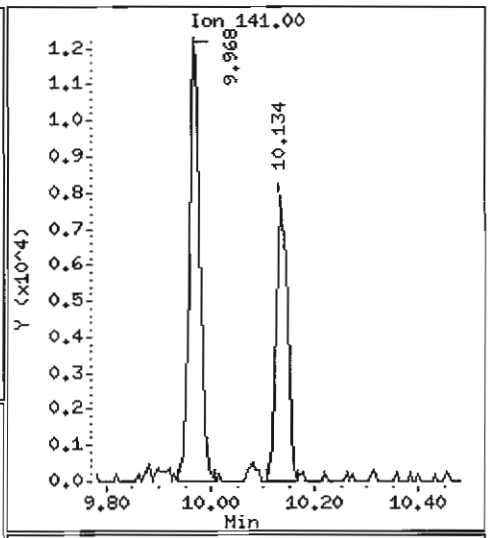
Concentration: 36.76 ug/kg

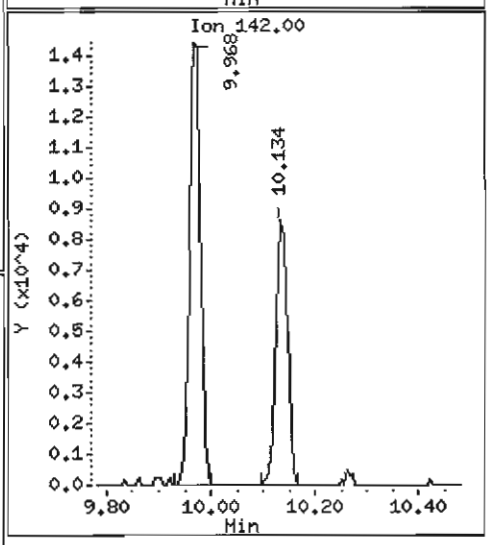












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC06-S
SAMPLE

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 14:20
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 48.1%
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	160
91-57-6	2-Methylnaphthalene	120	60 J
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	59 J
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	62 J
85-01-8	Phenanthrene	120	910
120-12-7	Anthracene	120	180
206-44-0	Fluoranthene	120	2,400
129-00-0	Pyrene	120	2,100
56-55-3	Benzo(a)anthracene	120	860
117-81-7	bis(2-Ethylhexyl)phthalate	120	5,300 E
218-01-9	Chrysene	120	1,300
205-99-2	Benzo(b)fluoranthene	120	1,400
207-08-9	Benzo(k)fluoranthene	120	1,700
50-32-8	Benzo(a)pyrene	120	990
193-39-5	Indeno(1,2,3-cd)pyrene	120	440
53-70-3	Dibenz(a,h)anthracene	120	84 J
191-24-2	Benzo(g,h,i)perylene	120	460

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.4%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	59.5%	d4-1,2-Dichlorobenzene	58.3%
d5-Phenol	59.4%	2-Fluorophenol	53.4%
2,4,6-Tribromophenol	60.1%	d4-2-Chlorophenol	59.1%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56m.d
Lab Smp Id: KZ56M
Client Smp ID: Y3-RC06-S
Inj Date : 29-MAY-2007 14:20
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56M,3
Misc Info : 07-9559
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 9
Dil Factor: 3.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	48.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.925	4.903	(0.723)	136226	6.68033	772.3
$ 2 Phenol-d5	99	6.458	6.447	(0.948)	177616	7.42334	858.2
3 Phenol	94	6.480	6.468	(0.951)	15595	0.59372	68.64(M)
$ 5 2-Chlorophenol-d4	132	6.528	6.521	(0.958)	122315	7.39329	854.7
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.811	6.805	(1.000)	224294	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.099	7.093	(1.042)	49160	4.85932	561.8
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	7.730	7.579	(1.135)	13108	~~0.96479~~	~~111.5~~ RT
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.730	7.729	(0.876)	97992	5.11597	591.4
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.825	8.819	(1.000)	804967	20.0000	
	28 Naphthalene	128	8.851	8.851	(1.003)	65616	1.37617	159.1
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	9.968	9.967	(1.130)	12483	0.51504 LOC	59.54
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.620	10.619	(0.911)	136278	4.92551	569.4
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.656	11.655	(1.000)	409950	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.710	11.703	(1.005)	13116	0.50701 LOC	58.61(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.522	12.515	(1.074)	14789	0.53817	62.22(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.944	12.937	(1.110)	31335	7.50786	868.0
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.012	14.001	(1.000)	550429	20.0000	
	60 Phenanthrene	178	14.044	14.038	(1.002)	289956	7.89345	912.5
	61 Anthracene	178	14.114	14.107	(1.007)	60120	1.58397	183.1
	62 Carbazole	167	14.418	14.412	(1.029)	62320	1.90811	220.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.182	15.165	(1.083)	30624	0.76029	87.89
64 Fluoranthene	202	15.983	15.956	(1.141)	730572	20.9620	2423
65 Pyrene	202	16.320	16.303	(0.891)	688098	17.9947	2080
$ 66 Terphenyl-d14	244	16.667	16.650	(0.910)	120003	4.95567	572.9
67 Butylbenzylphthalate	149	17.570	17.558	(0.960)	47314	2.63159	304.2(M)
68 Benzo(a)anthracene	228	18.280	18.253	(0.999)	255758	7.42940	858.9
* 69 Chrysene-d12	240	18.307	18.280	(1.000)	460852	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.344	18.322	(1.002)	395964	11.3703	1314
72 bis(2-Ethylhexyl)phthalate	149	18.601	18.573	(0.952)	1077526	45.9728 E	5315(M)
* 134 Di-n-octylphthalate-d4	153	19.530	19.503	(1.000)	684311	20.0000	
73 Di-n-octylphthalate	149	19.546	19.514	(1.001)	61161	1.50447	173.9(M)
74 Benzo(b)fluoranthene	252	19.942	19.898	(0.974)	299512	12.1593	1406(M)
75 Benzo(k)fluoranthene	252	19.947	19.930	(0.975)	348446	14.7254	1702(M)
76 Benzo(a)pyrene	252	20.380	20.336	(0.996)	210454	8.53593	986.8
* 77 Perylene-d12	264	20.465	20.416	(1.000)	379907	20.0000	(M)
78 Indeno(1,2,3-cd)pyrene	276	21.812	21.768	(1.066)	110224	3.78141	437.2
79 Dibenzo(a,h)anthracene	278	21.838	21.789	(1.067)	17530	0.72611	83.94(M)
80 Benzo(g,h,i)perylene	276	22.127	22.078	(1.081)	106574	3.99113	461.4
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56m.d
Lab Smp Id: KZ56M
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9559

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC06-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	224294	3.04
27 Naphthalene-d8	775413	387706	1550826	804967	3.81
42 Acenaphthene-d10	371068	185534	742136	409950	10.48
59 Phenanthrene-d10	554165	277082	1108330	550429	-0.67
69 Chrysene-d12	436021	218010	872042	460852	5.69
134 Di-n-octylphthala	773344	386672	1546688	684311	-11.51
77 Perylene-d12	622369	311184	1244738	379907	-38.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.09
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.07
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.01
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.08
69 Chrysene-d12	18.28	17.78	18.78	18.31	0.15
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.14
77 Perylene-d12	20.42	19.92	20.92	20.47	0.24

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56M
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9559

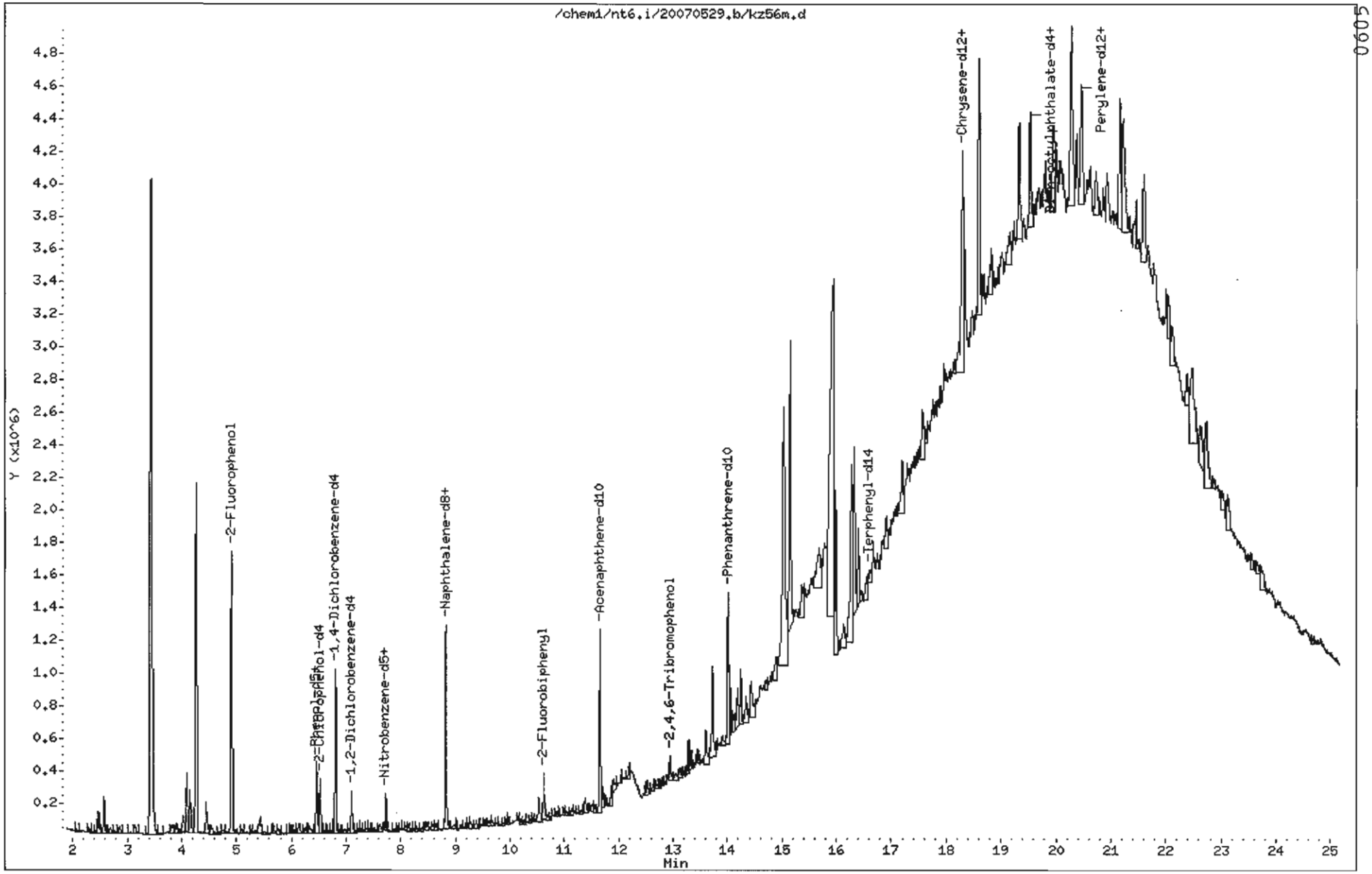
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC06-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1445	772.3	53.44	11-84
$ 2 Phenol-d5	1445	858.2	59.39	25-86
$ 5 2-Chlorophenol-d4	1445	854.7	59.15	23-91
$ 10 1,2-Dichlorobenzen	963.4	561.8	58.31	24-90
$ 18 Nitrobenzene-d5	963.4	591.4	61.39	26-88
$ 36 2-Fluorobiphenyl	963.4	569.4	59.11	34-91
$ 55 2,4,6-Tribromophen	1445	868.0	60.06	25-107
$ 66 Terphenyl-d14	963.4	572.9	59.47	22-100

Data File: /chem1/nt6.i/20070529.b/kz56m.d
Date : 29-MAY-2007 14:20
Client ID: Y3-RC06-S
Sample Info: KZ56M,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



0605

Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

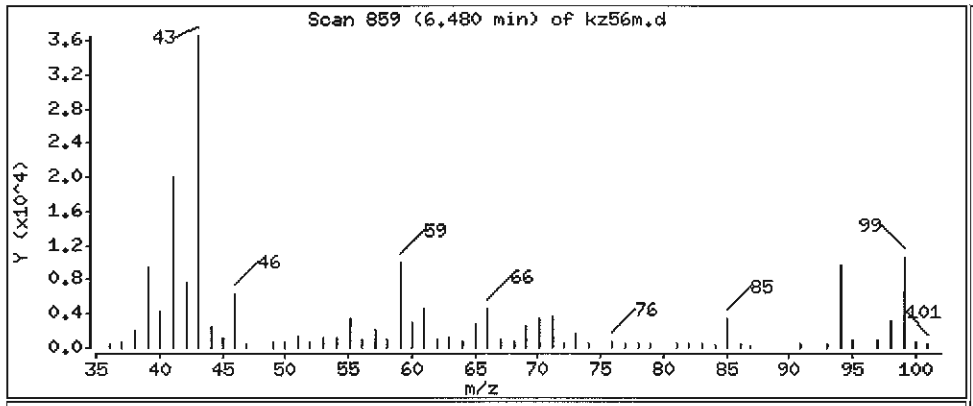
Operator: LJR/VTS

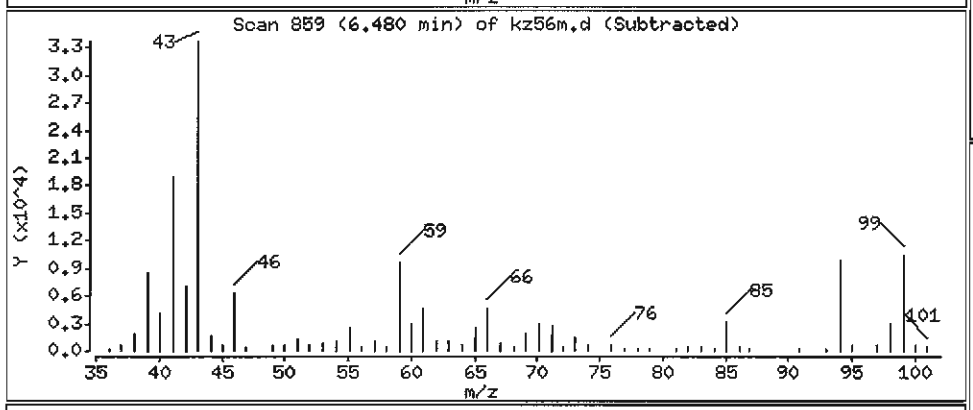
Column phase: ZB-5

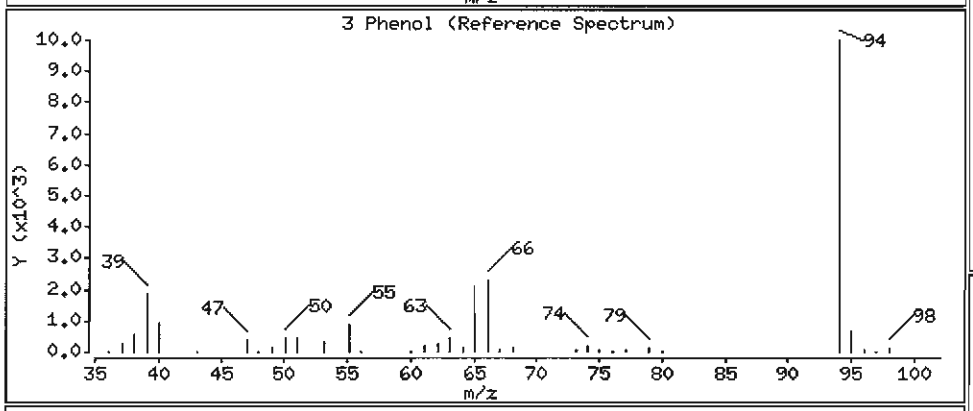
Column diameter: 0.32

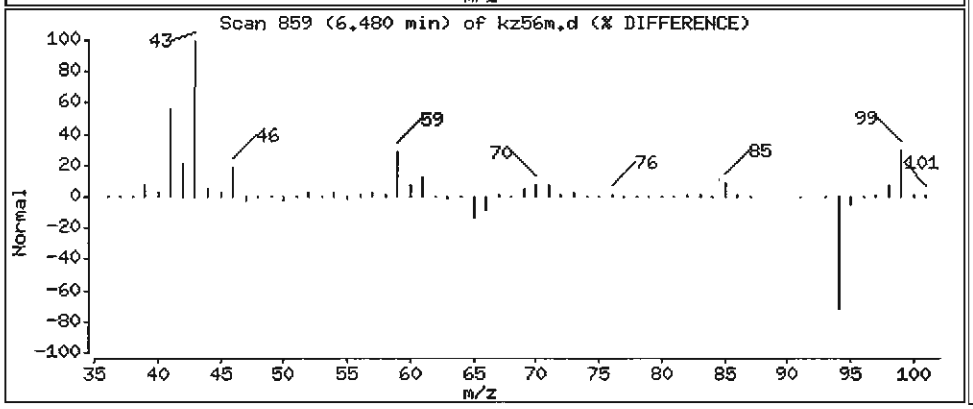
3 Phenol

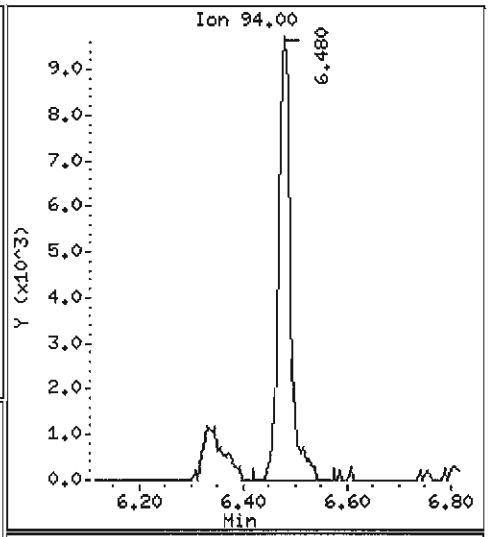
Concentration: 68.64 ug/kg

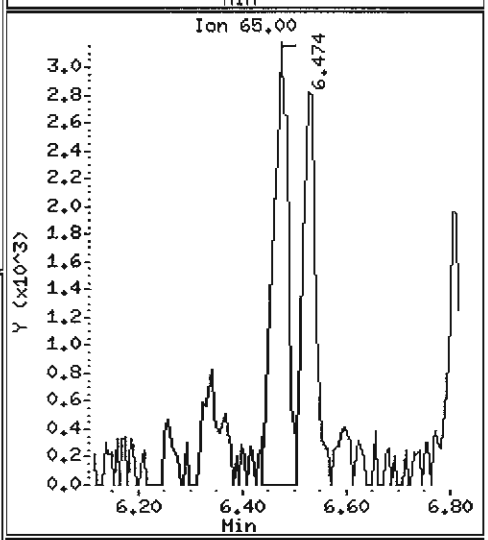


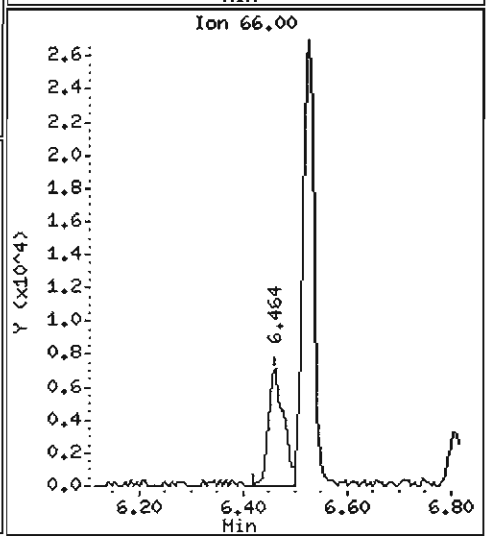












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

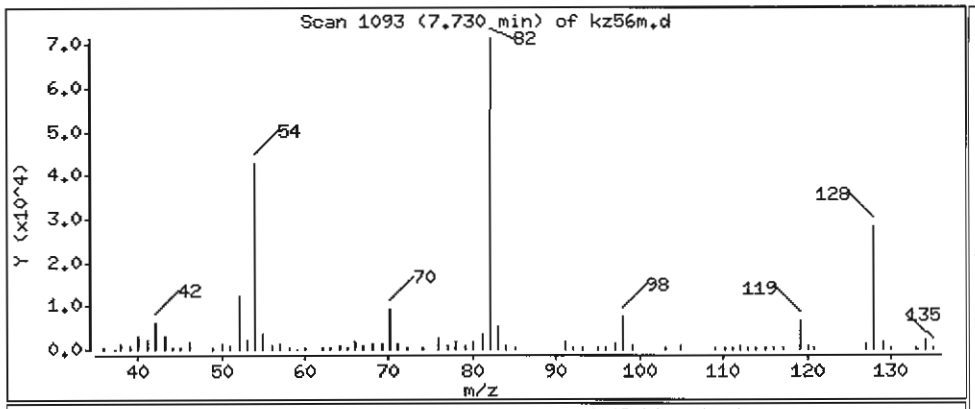
Operator: LJR/VTS

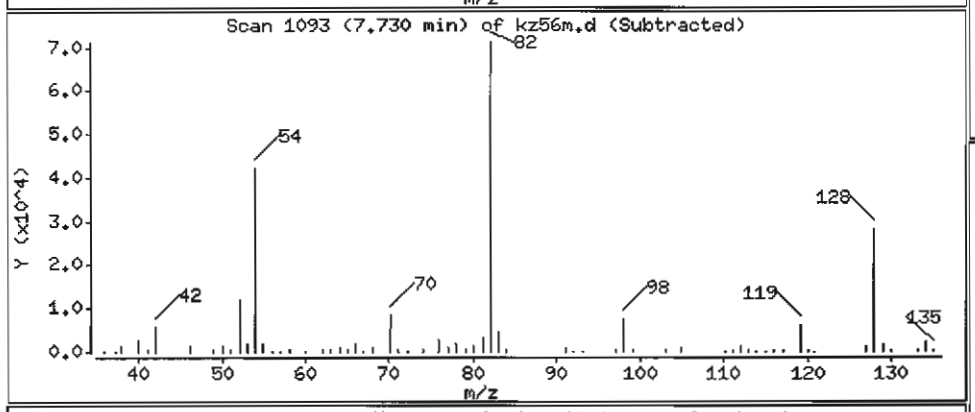
Column phase: ZB-5

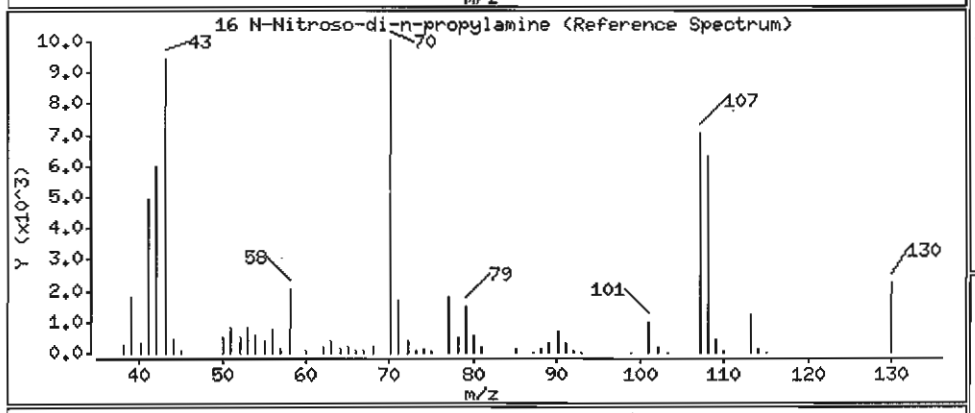
Column diameter: 0.32

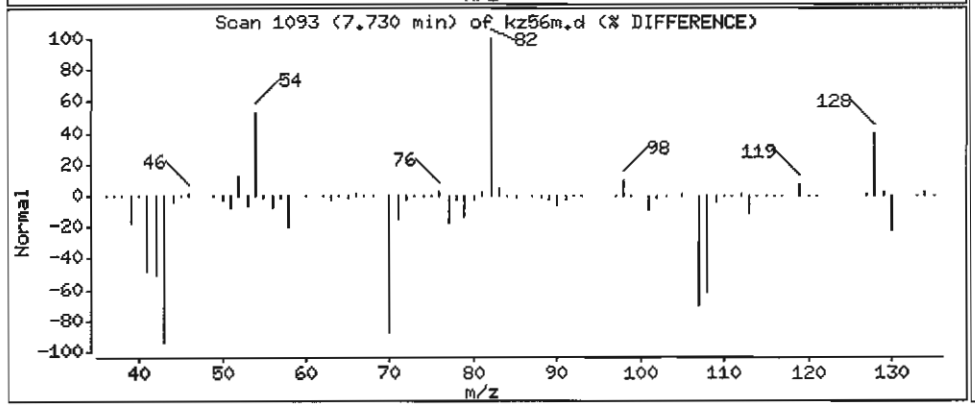
16 N-Nitroso-di-n-propylamine

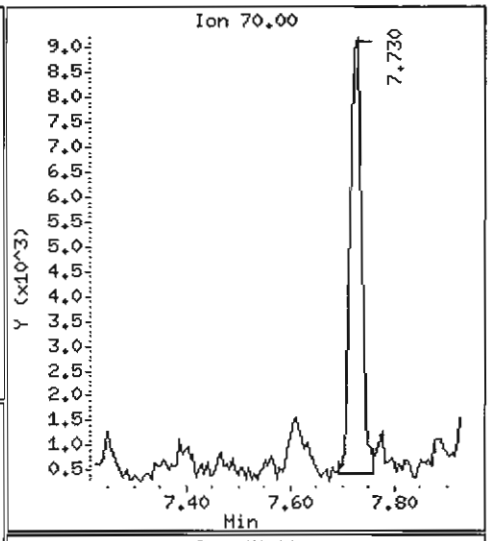
Concentration: 111.5 ug/kg

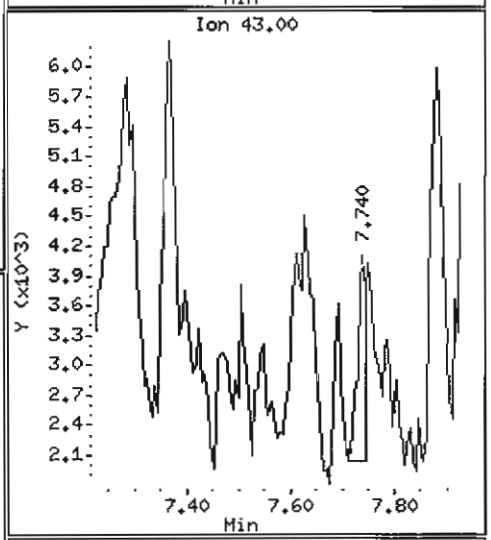


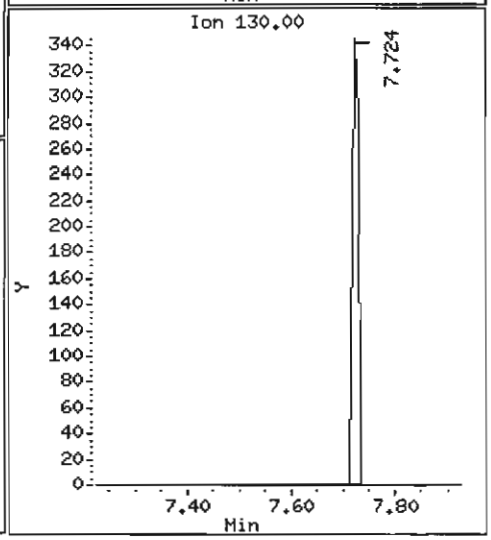












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

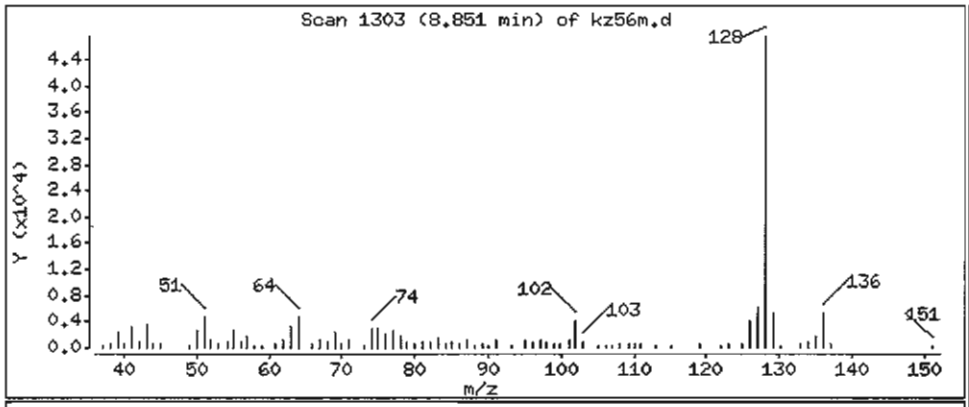
Operator: LJR/VTS

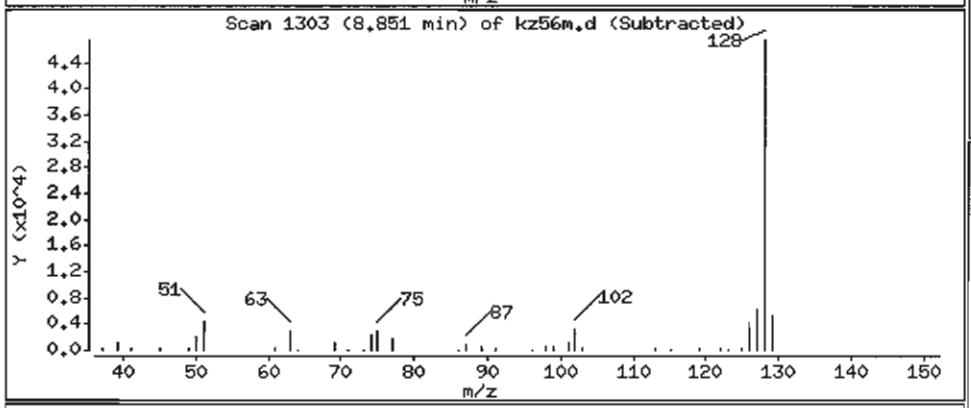
Column phase: ZB-5

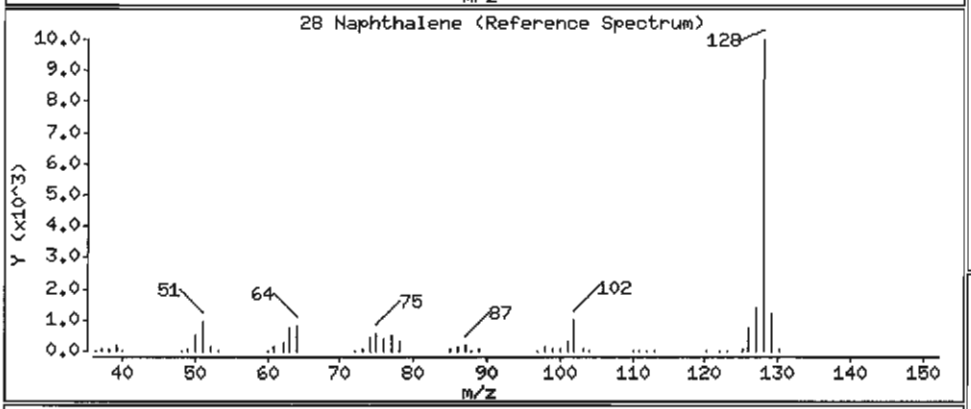
Column diameter: 0.32

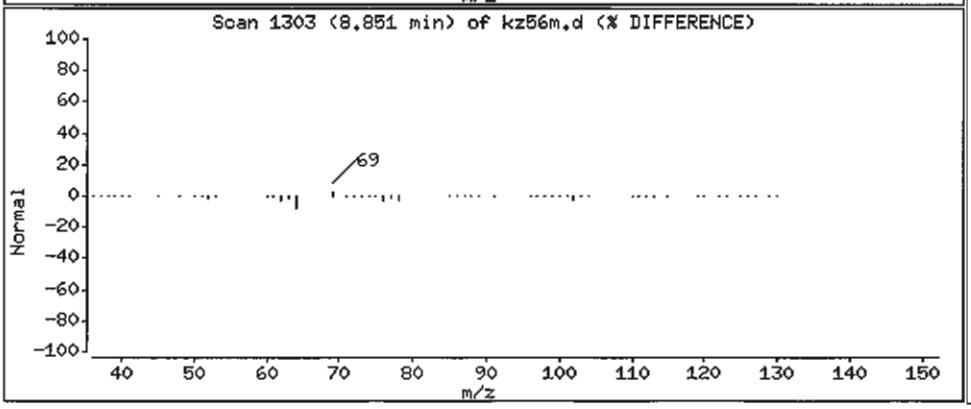
28 Naphthalene

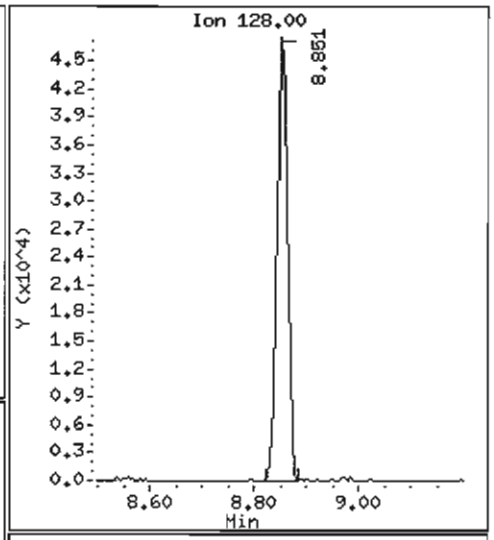
Concentration: 159.1 ug/kg

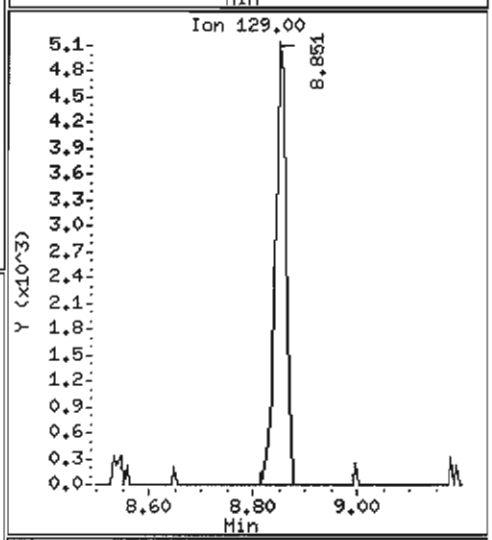


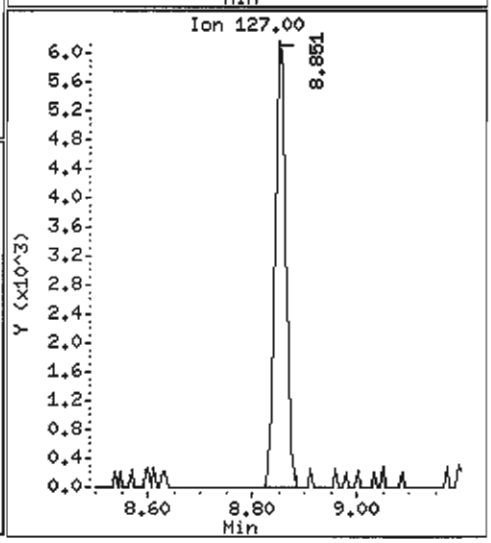












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

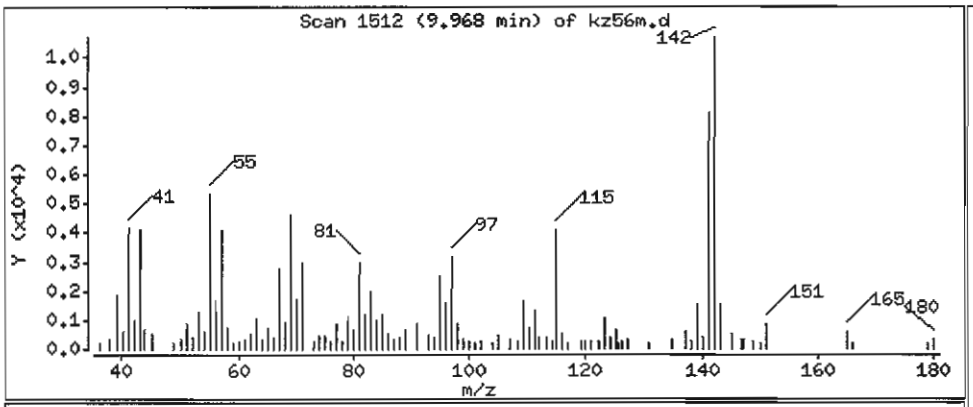
Operator: LJR/VTS

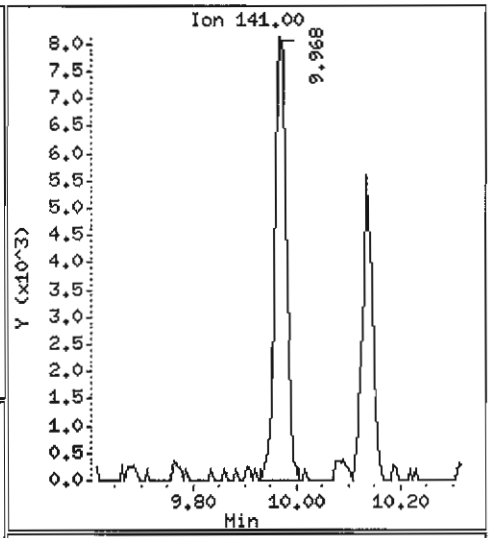
Column phase: ZB-5

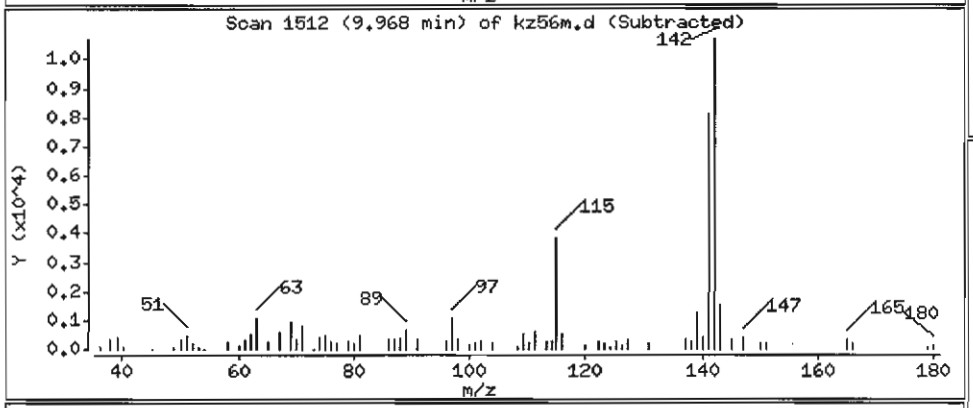
Column diameter: 0.32

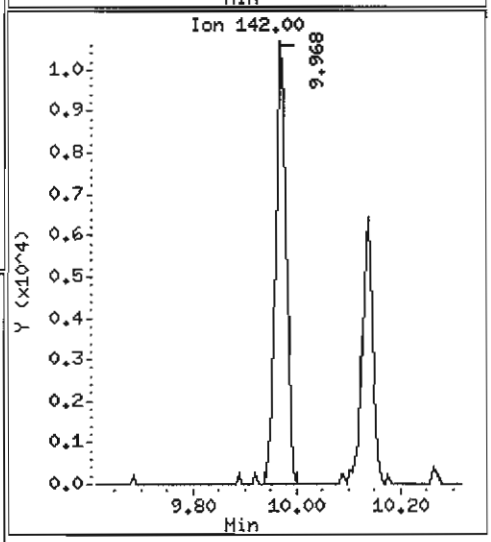
32 2-Methylnaphthalene

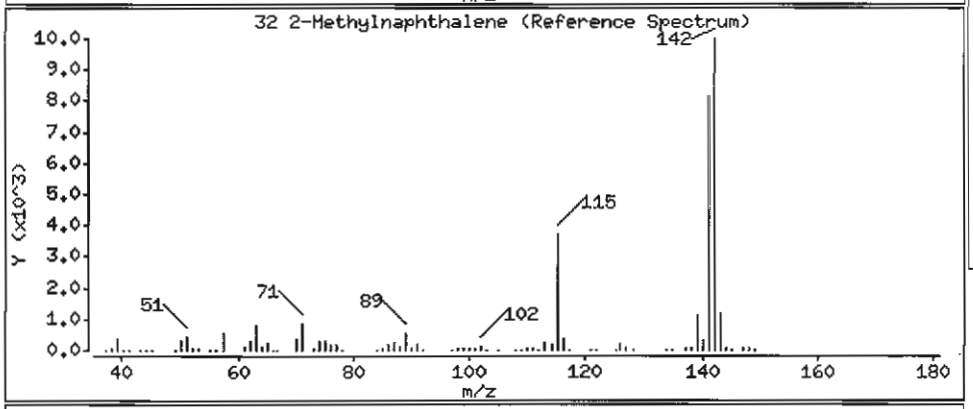
Concentration: 59.54 ug/kg

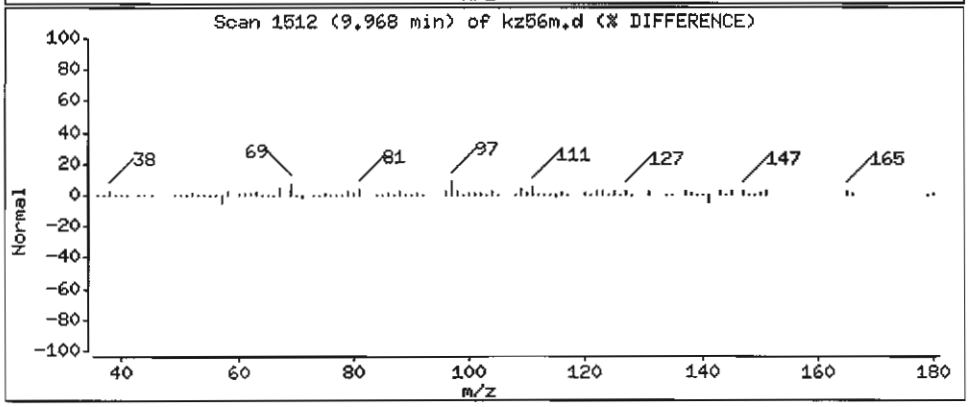












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

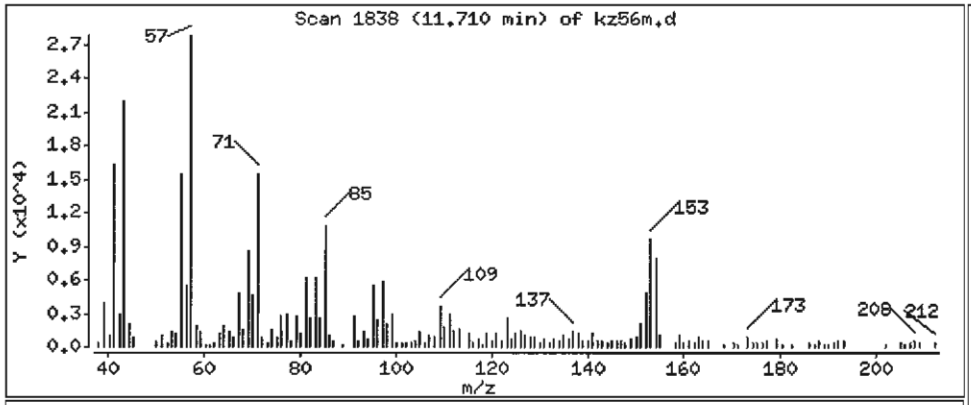
Column phase: ZB-5

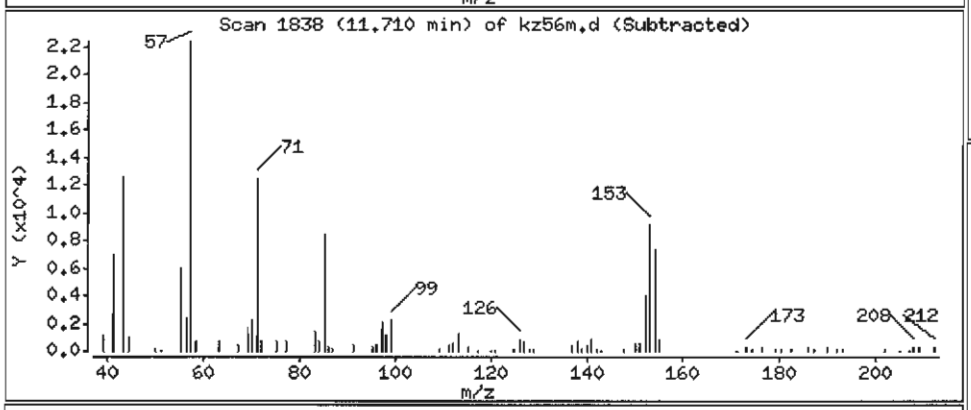
Column diameter: 0.32

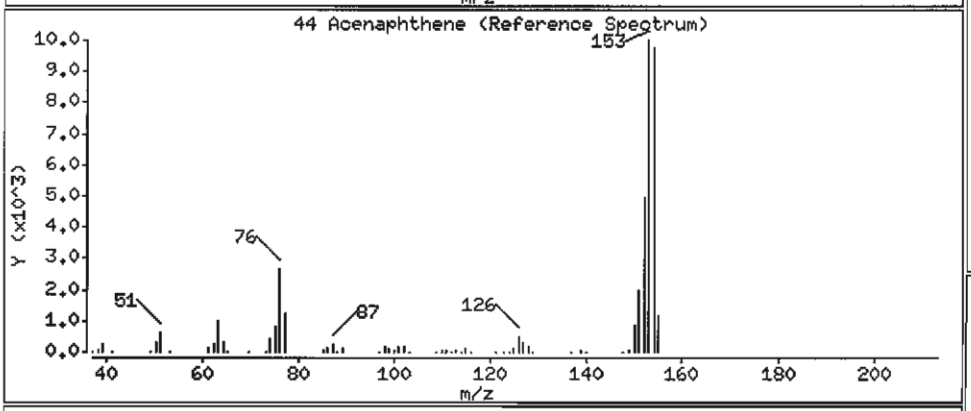
44 Acenaphthene

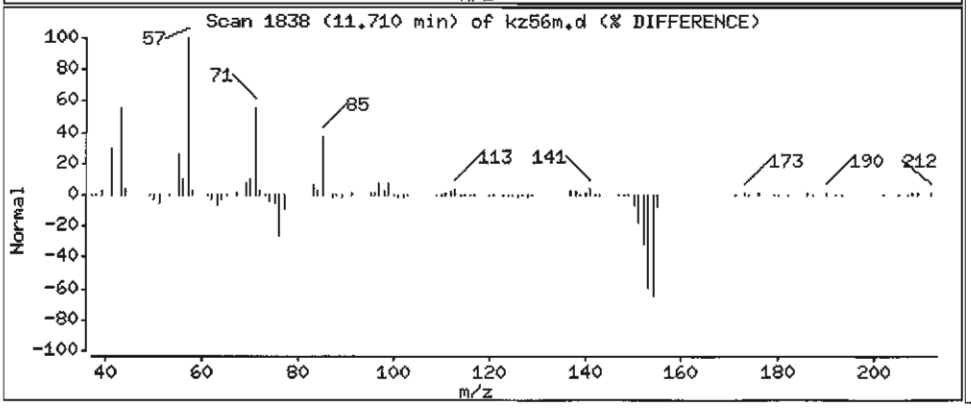
Concentration: 58.61 ug/kg

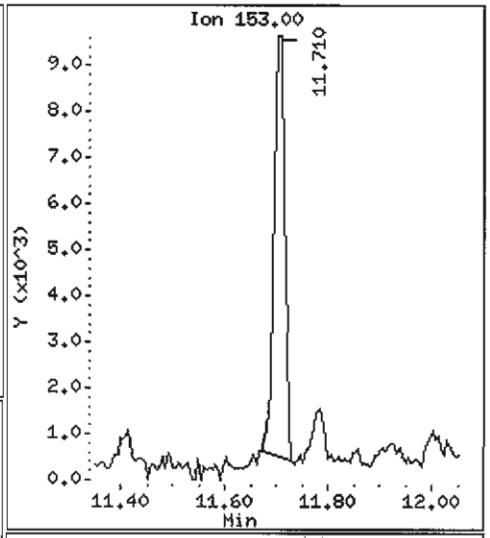
JCR

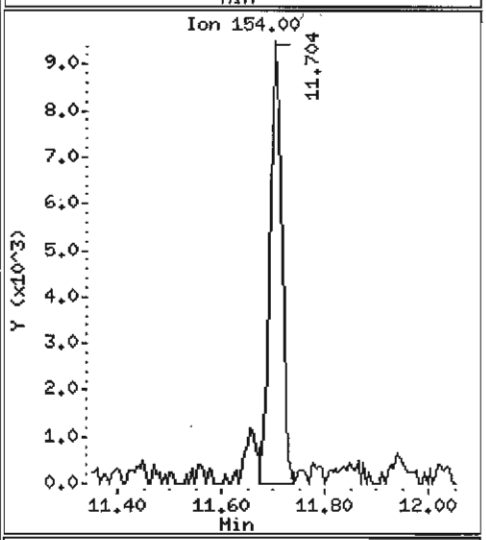


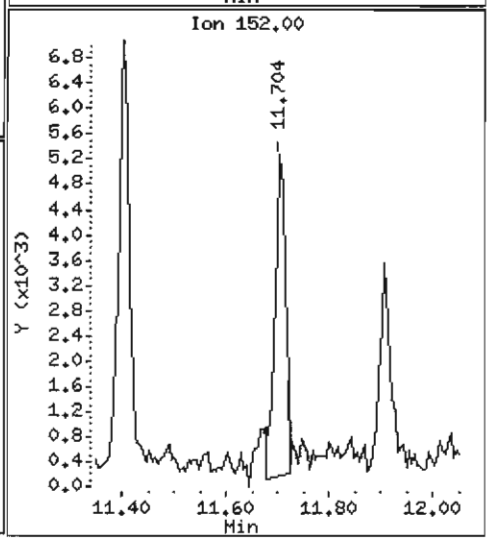












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

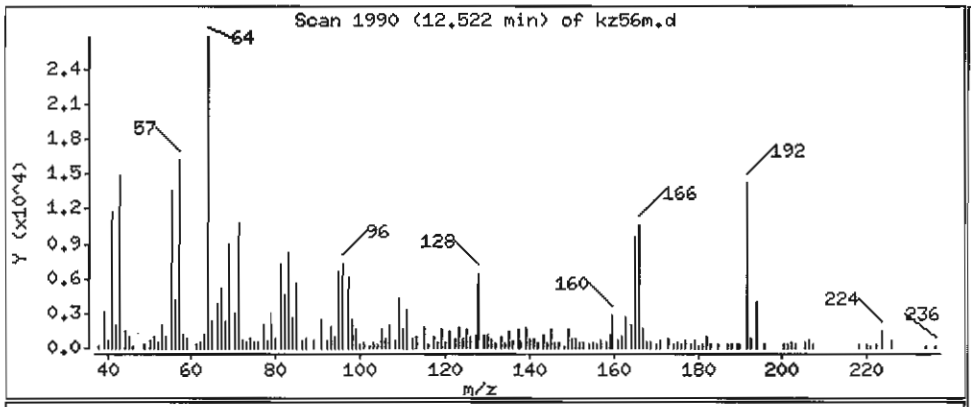
Operator: LJR/VTS

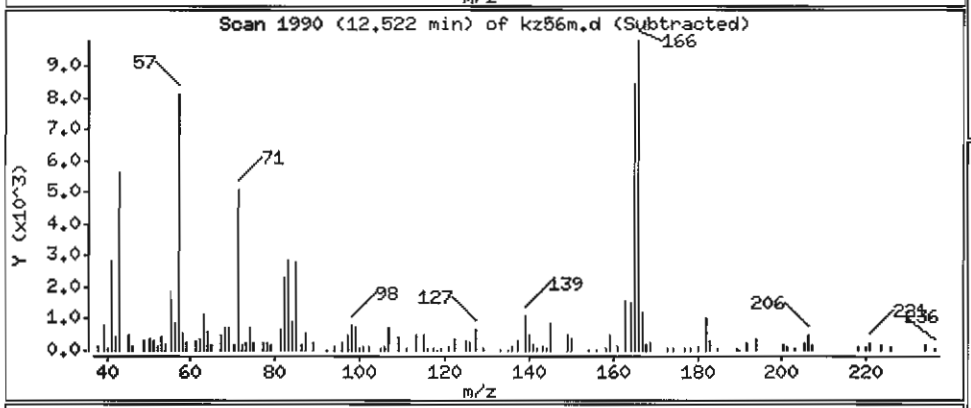
Column phase: ZB-5

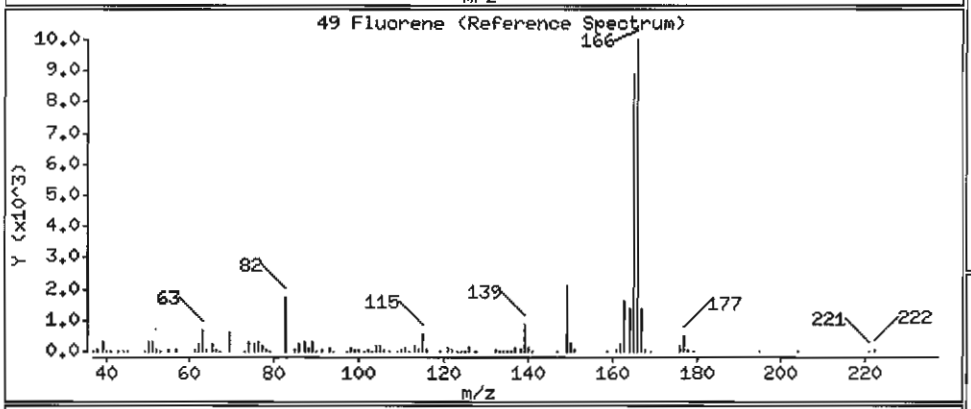
Column diameter: 0.32

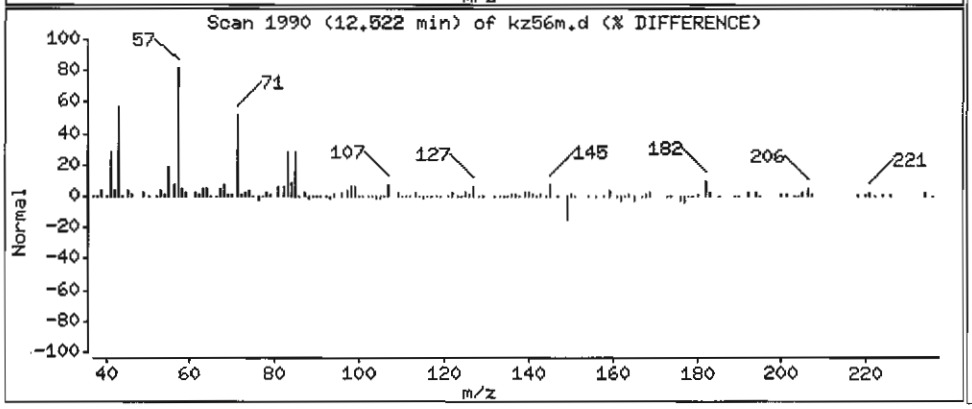
49 Fluorene

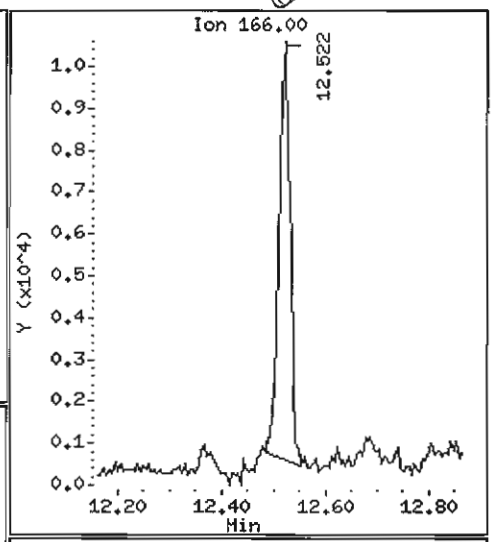
Concentration: 62.22 ug/kg

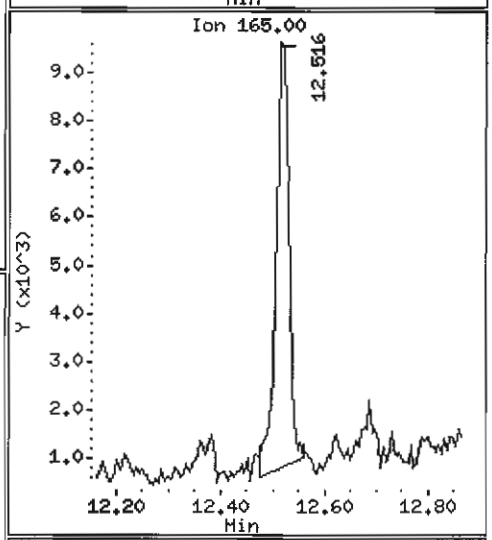


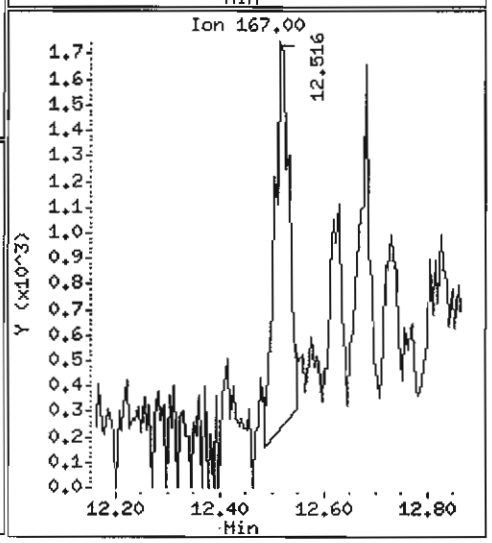












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

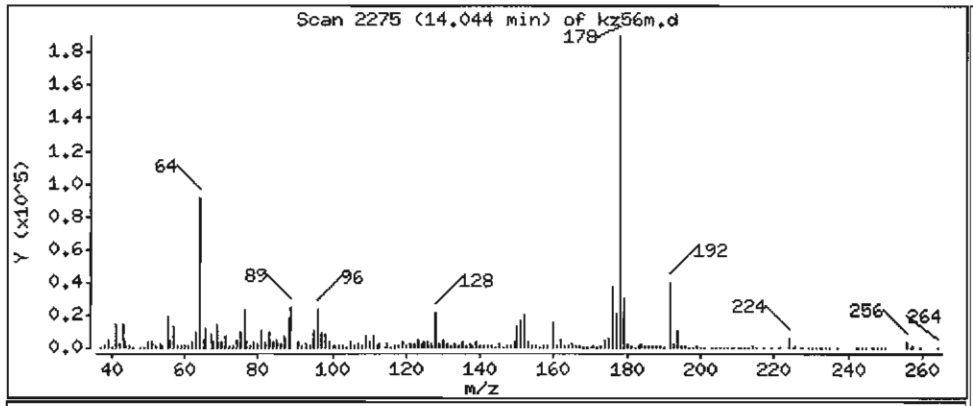
Operator: LJR/VTS

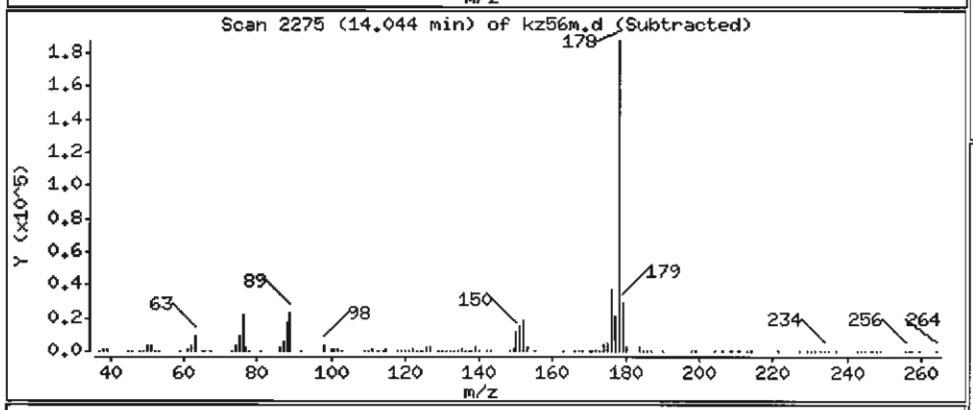
Column phase: ZB-5

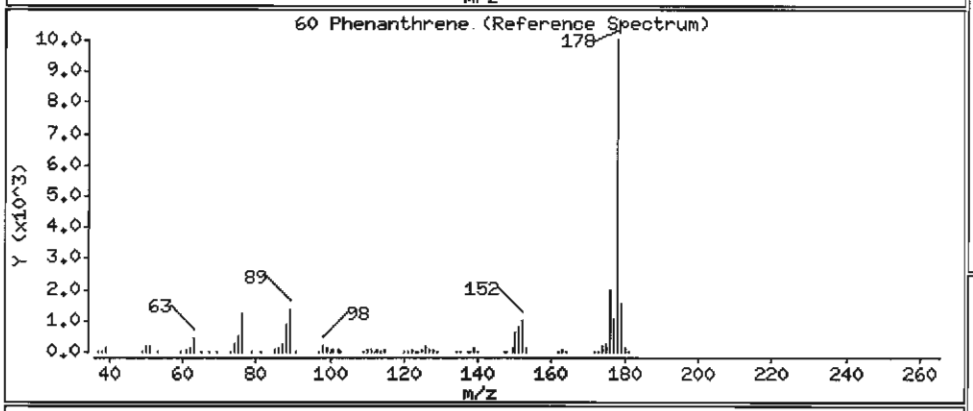
Column diameter: 0.32

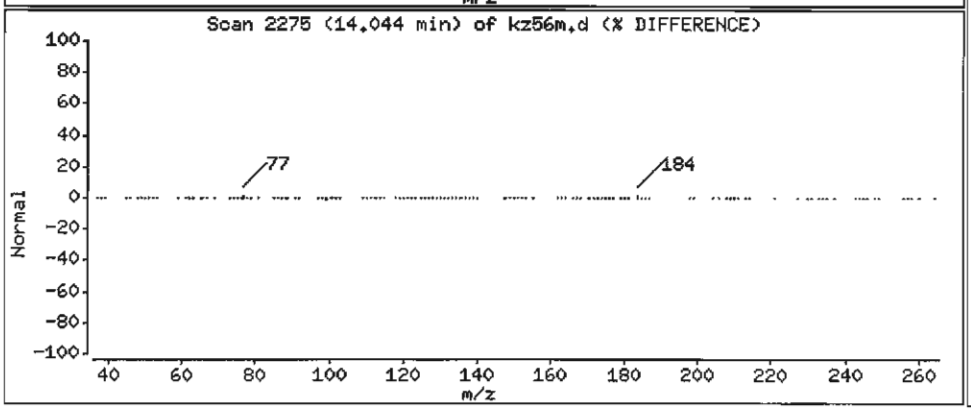
60 Phenanthrene

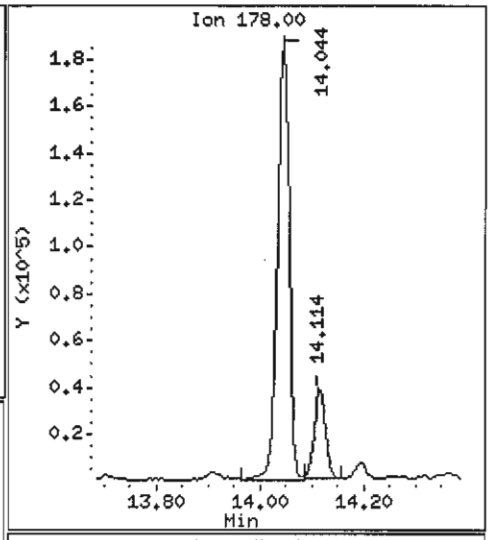
Concentration: 912.5 ug/kg

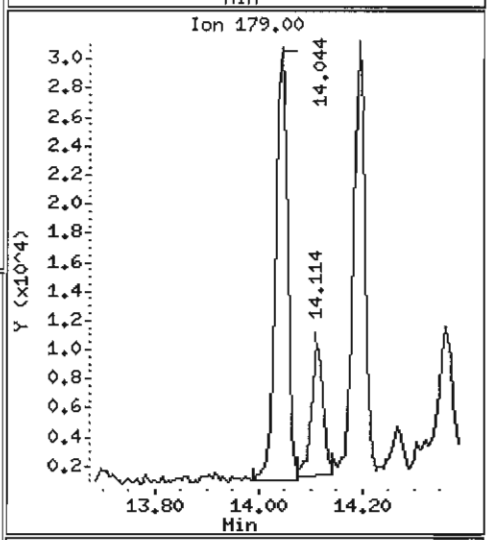


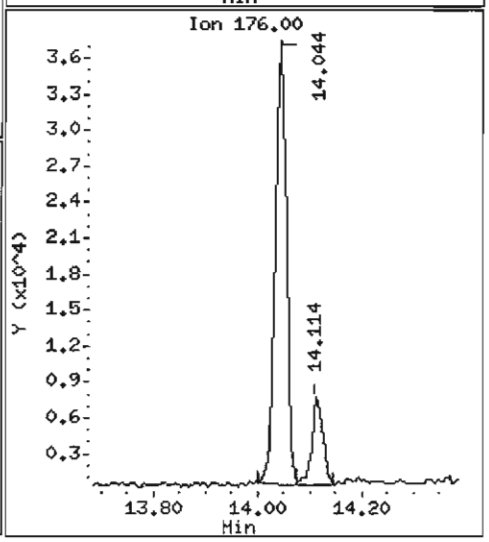












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

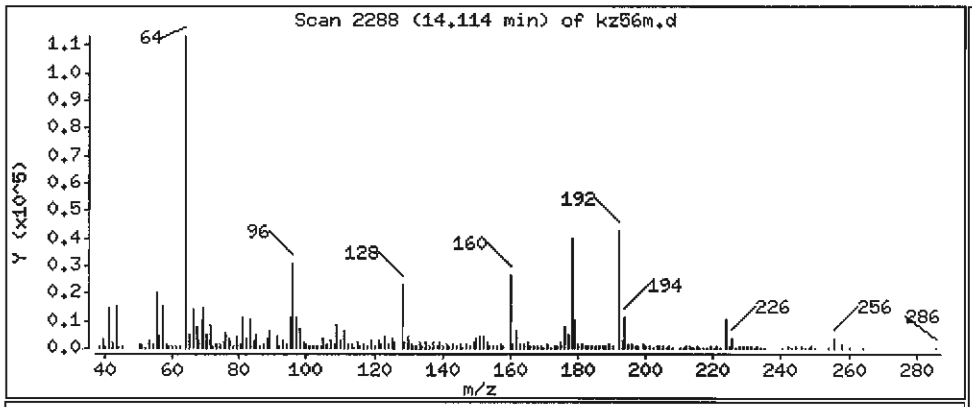
Operator: LJR/VTS

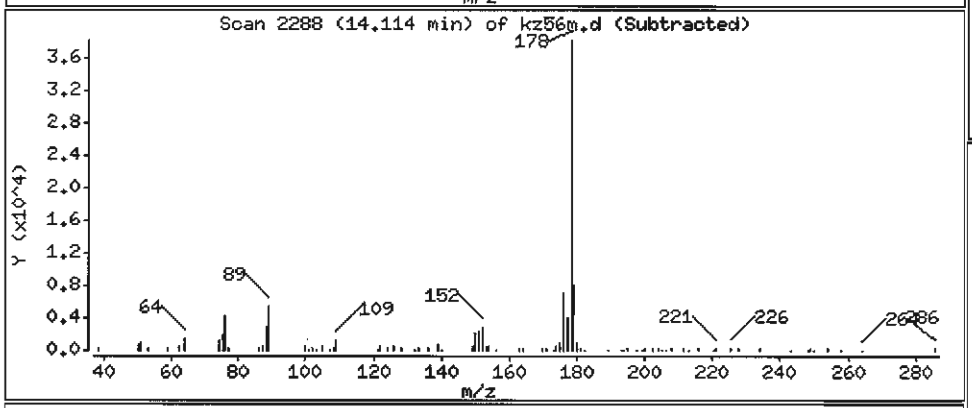
Column phase: ZB-5

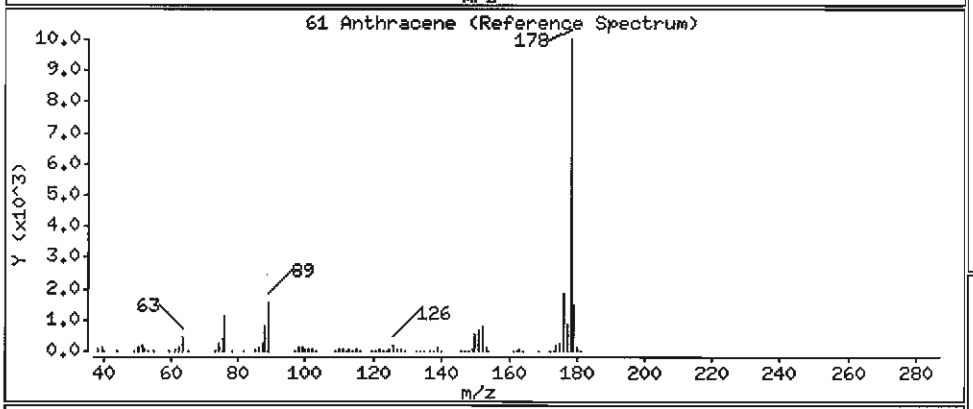
Column diameter: 0.32

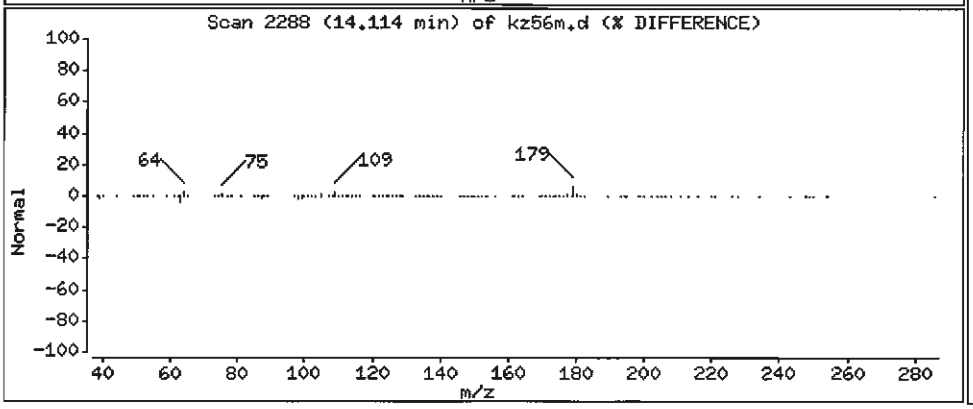
61 Anthracene

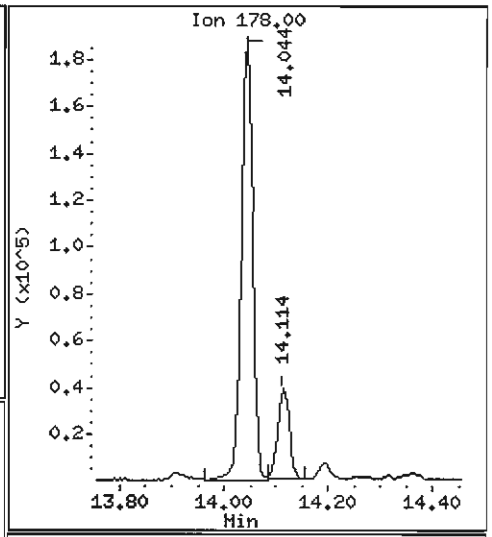
Concentration: 183.1 ug/kg

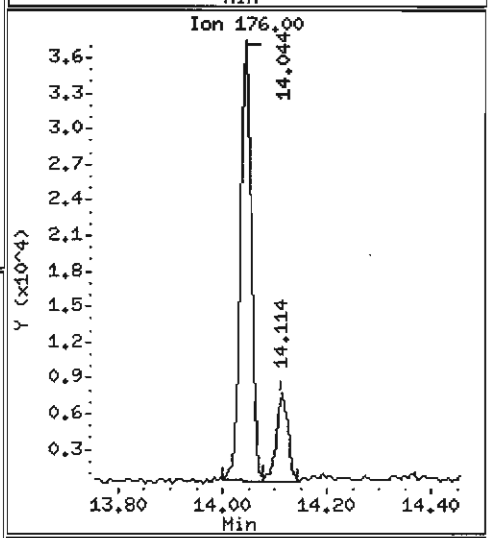


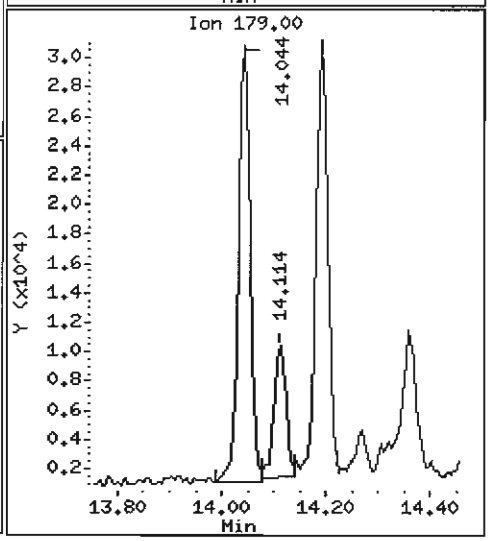












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

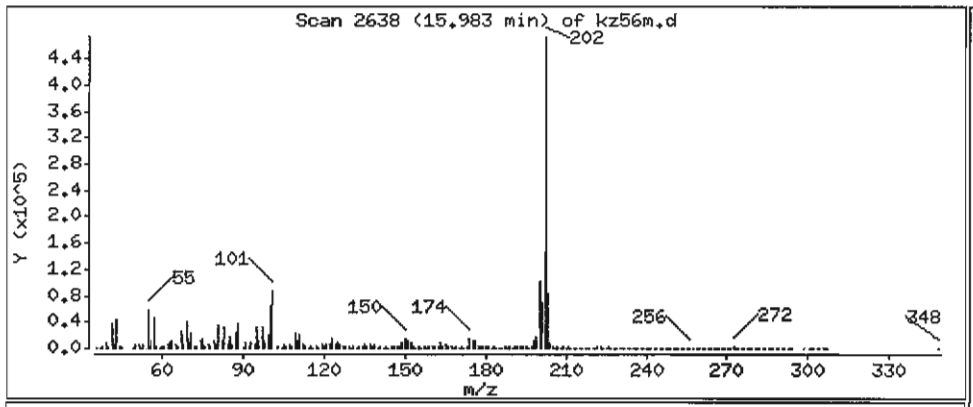
Operator: LJR/VTS

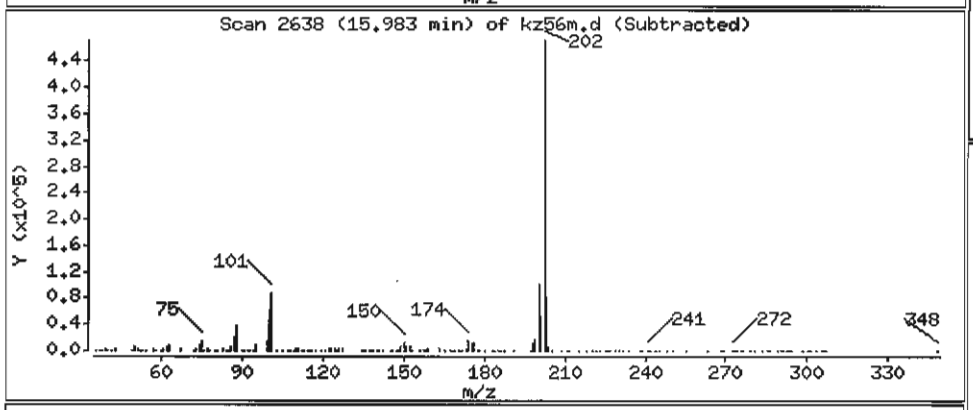
Column phase: ZB-5

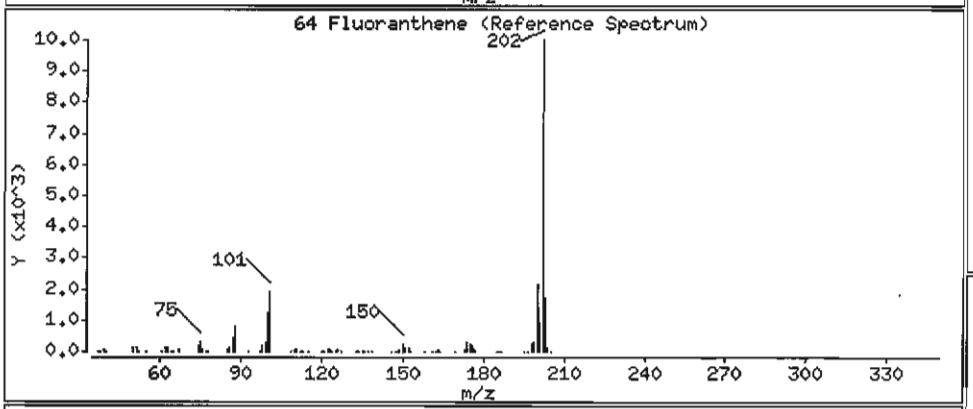
Column diameter: 0.32

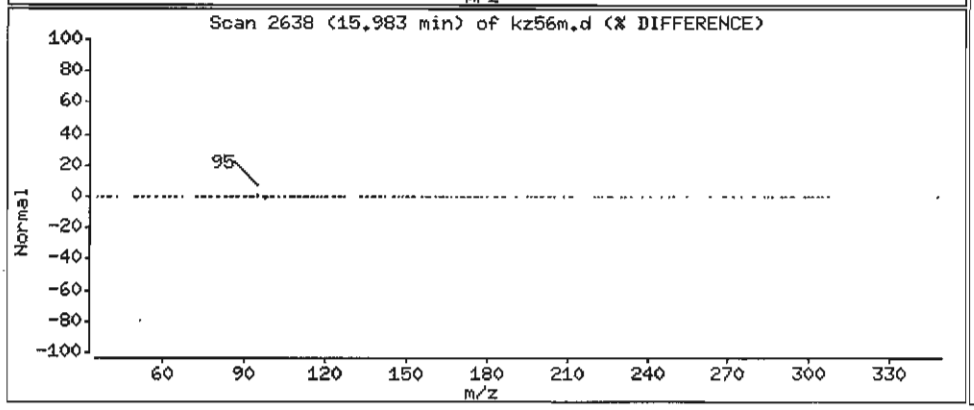
64 Fluoranthene

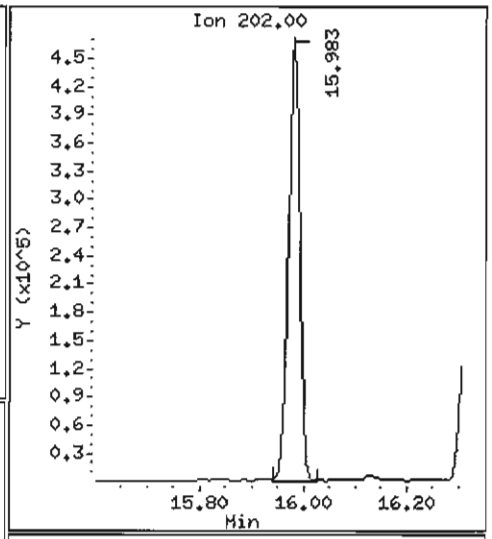
Concentration: 2423 ug/kg

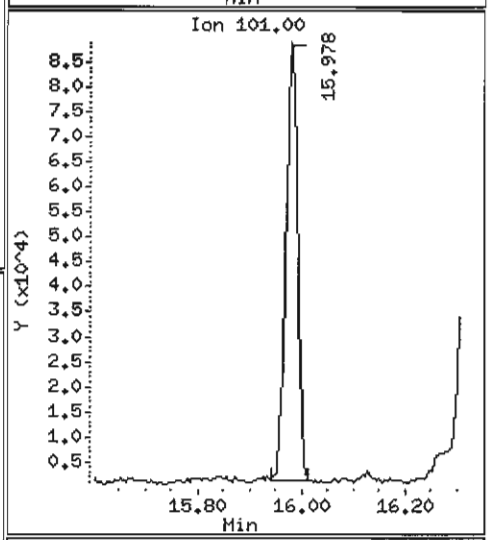


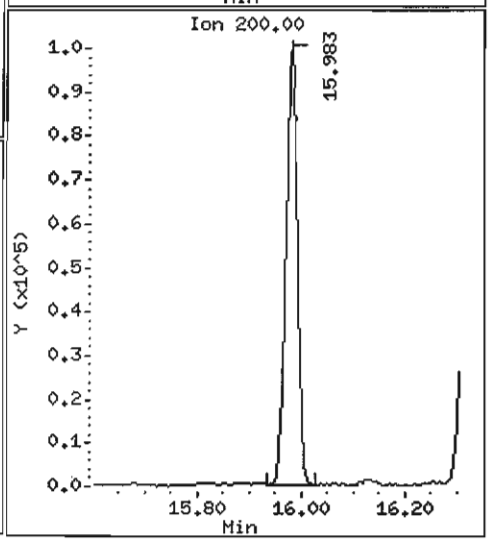












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

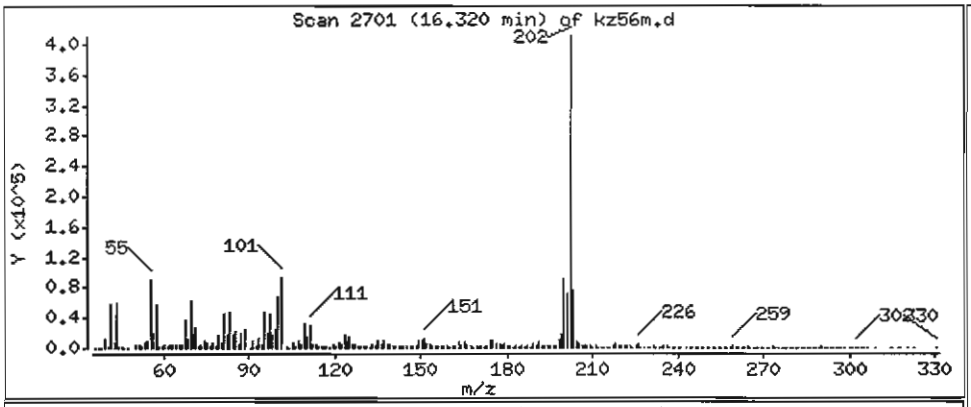
Operator: LJR/VTS

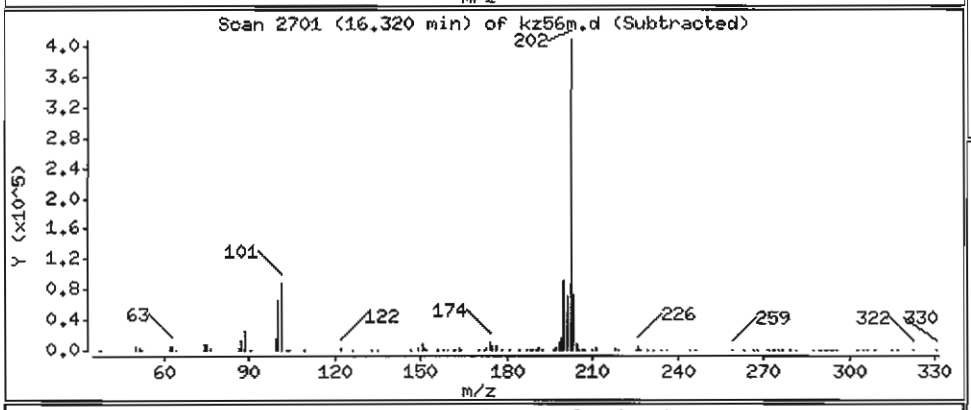
Column phase: ZB-5

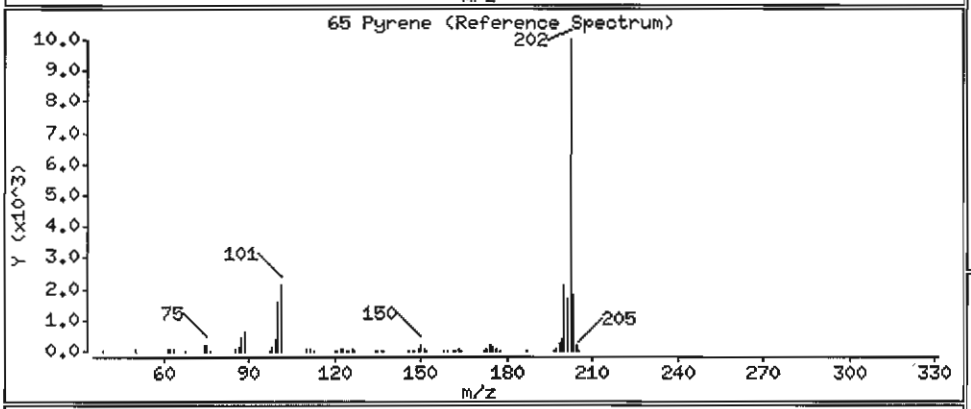
Column diameter: 0.32

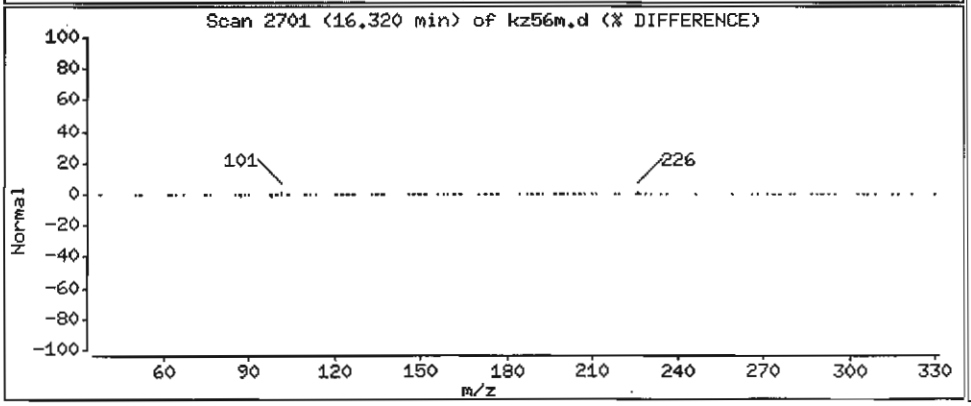
65 Pyrene

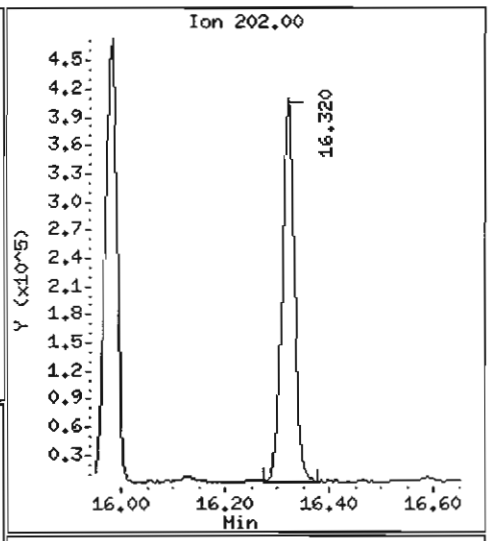
Concentration: 2080 ug/kg

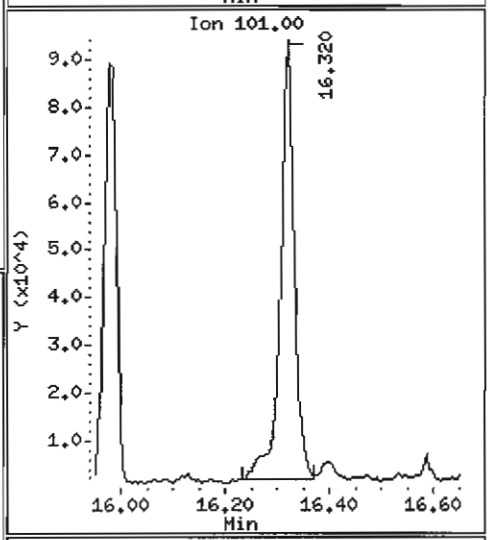


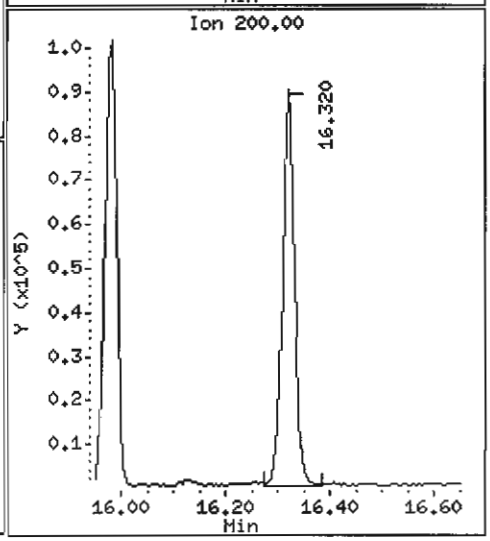












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

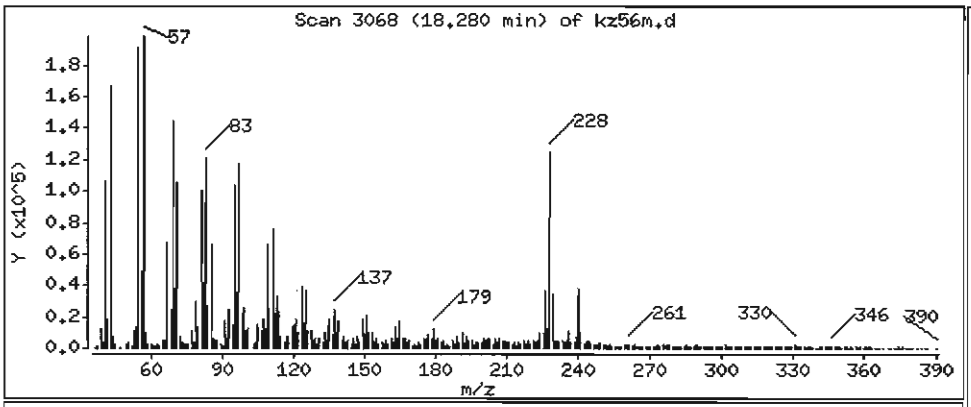
Operator: LJR/VTS

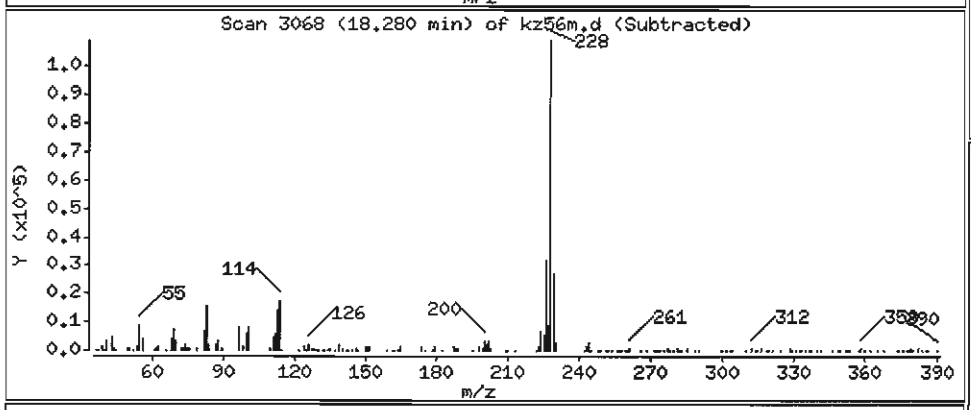
Column phase: ZB-5

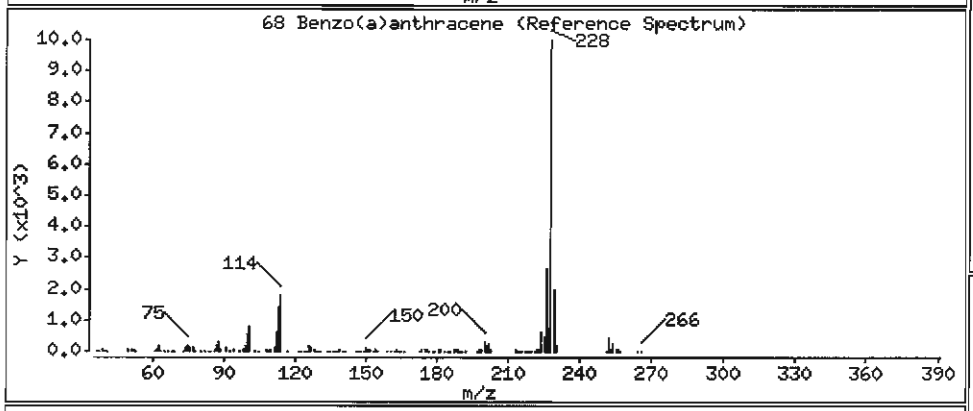
Column diameter: 0.32

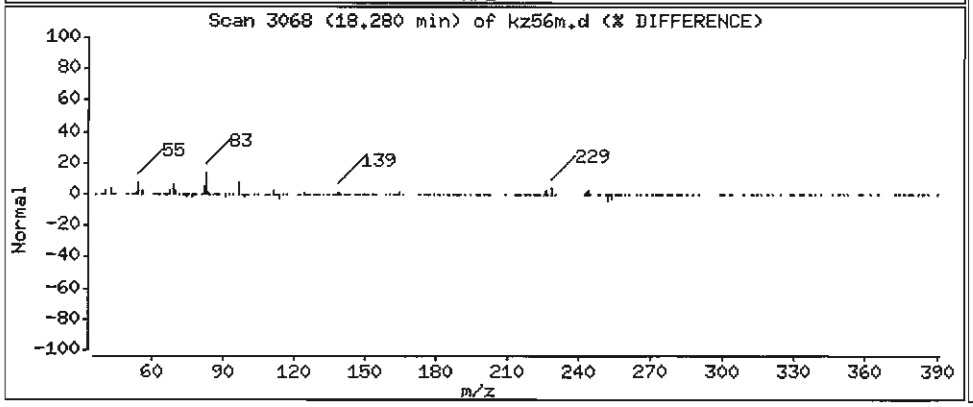
68 Benzo(a)anthracene

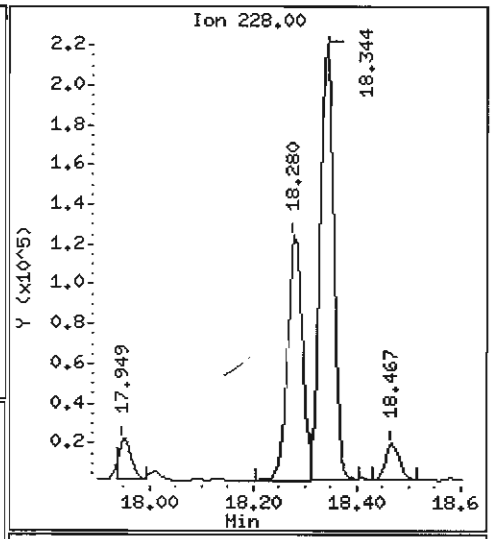
Concentration: 858.9 ug/kg

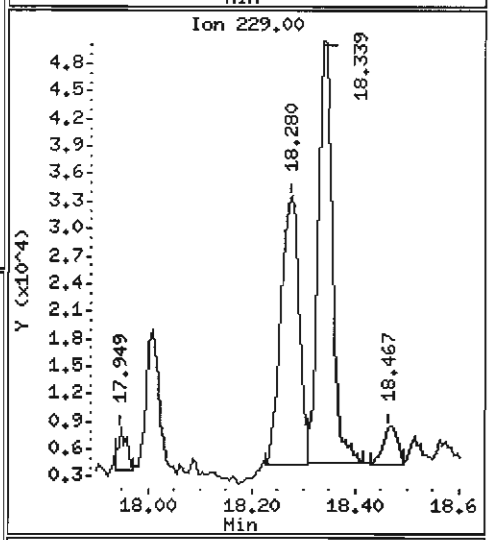


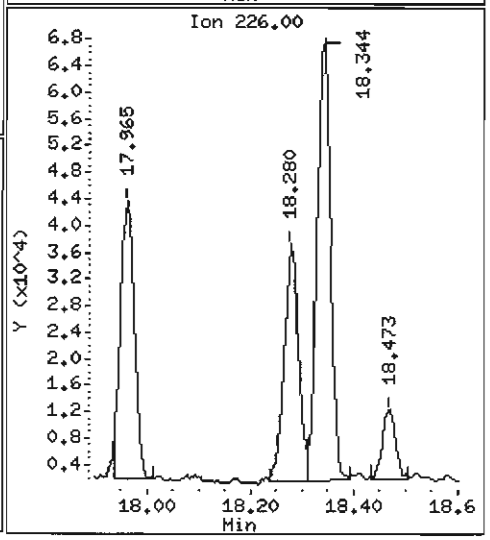












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

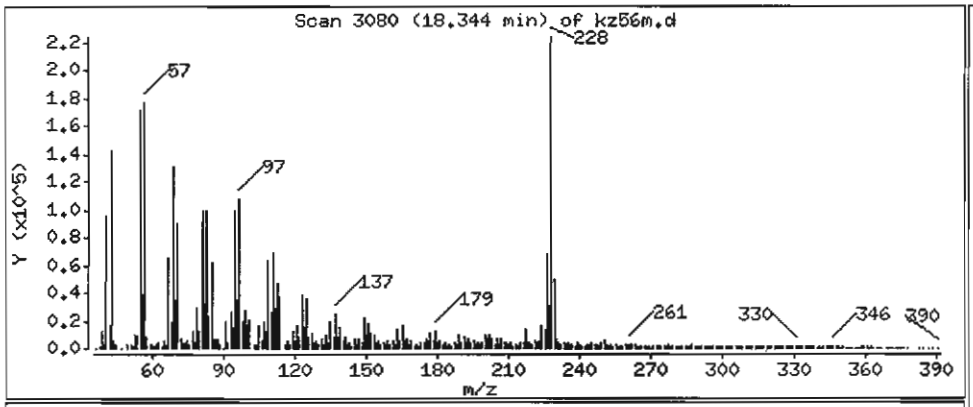
Operator: LJR/VTS

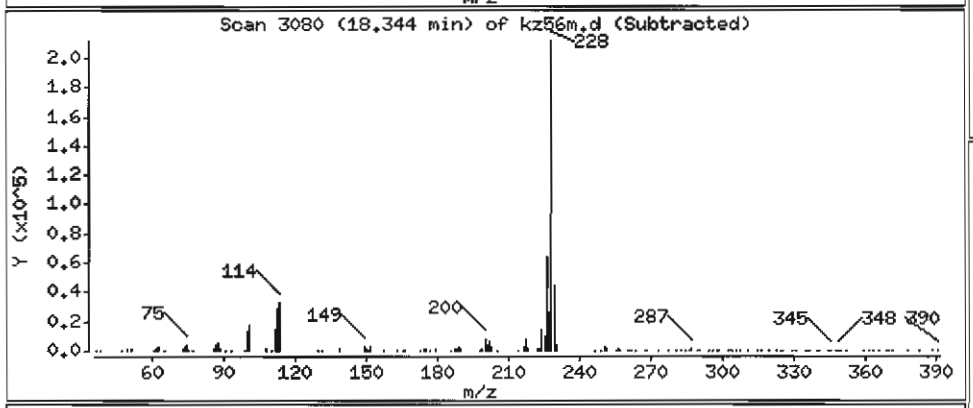
Column phase: ZB-5

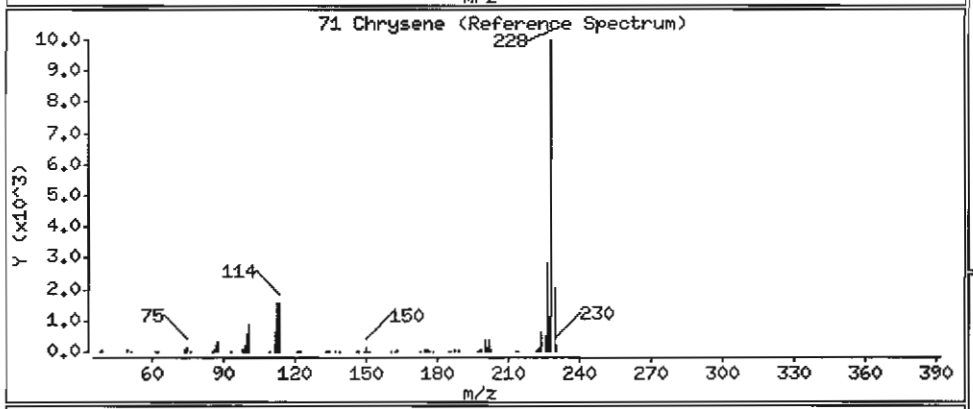
Column diameter: 0.32

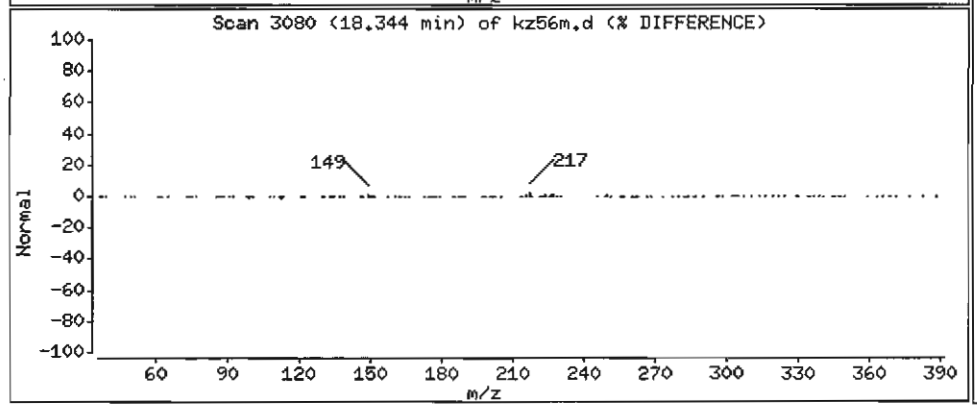
71 Chrysene

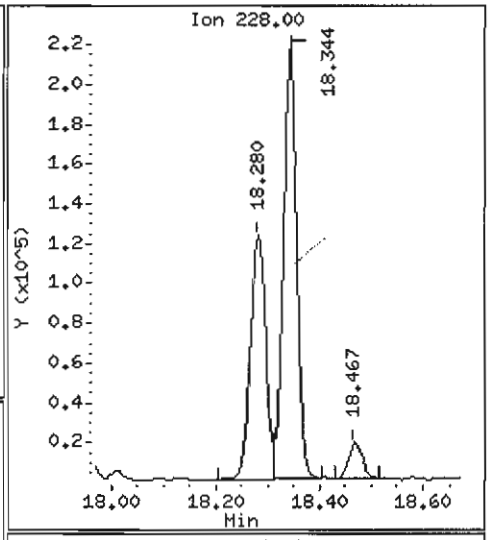
Concentration: 1314 ug/kg

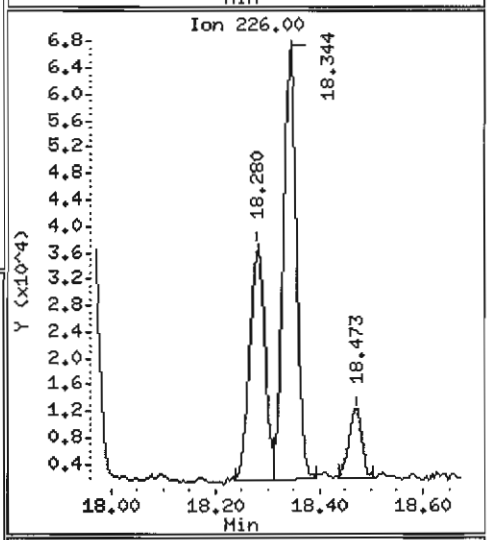


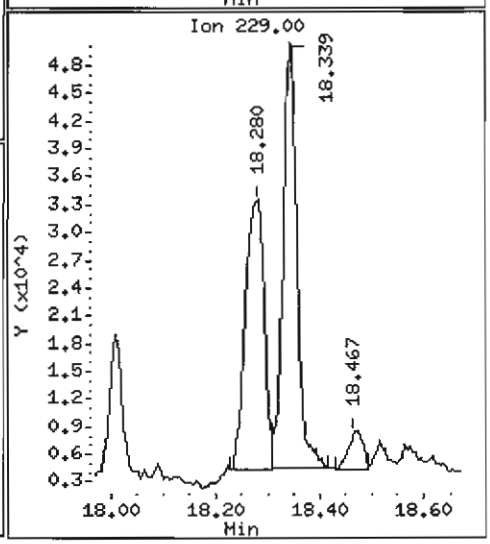












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

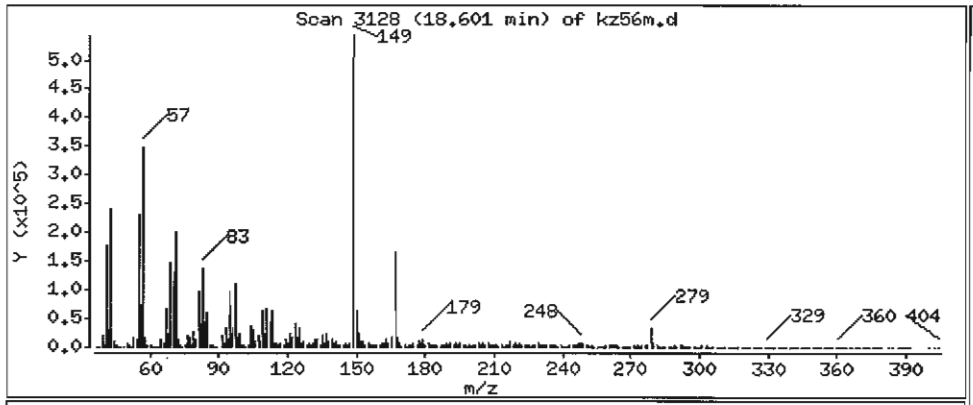
Operator: LJR/VTS

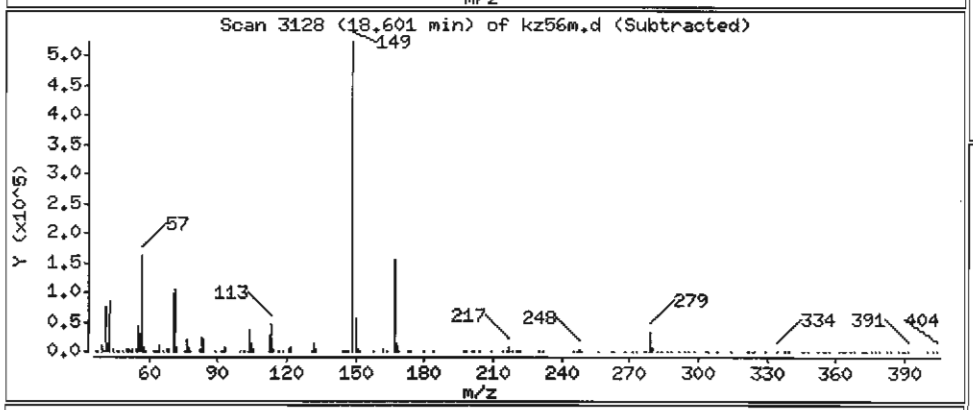
Column phase: ZB-5

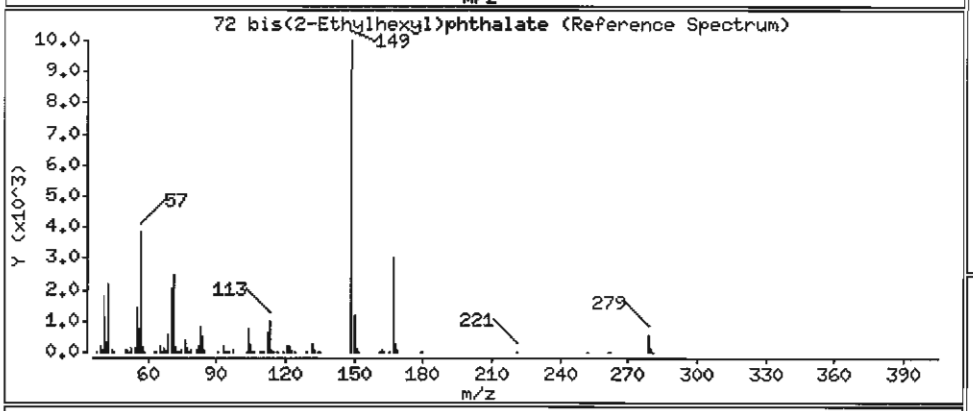
Column diameter: 0.32

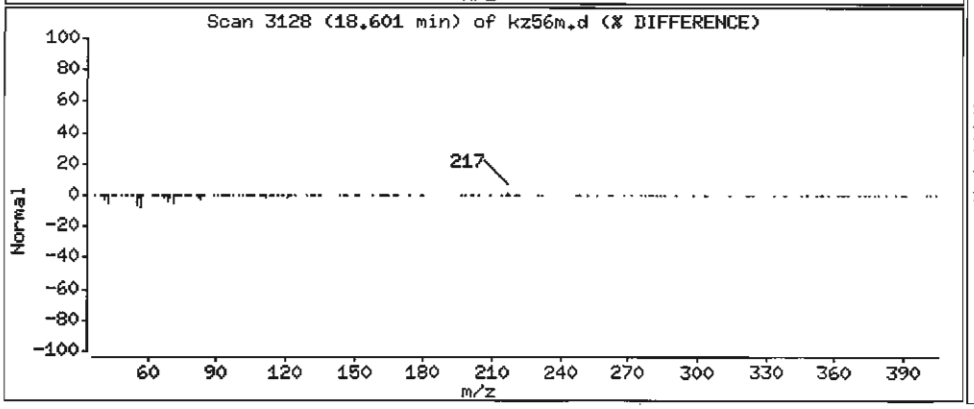
72 bis(2-Ethylhexyl)phthalate

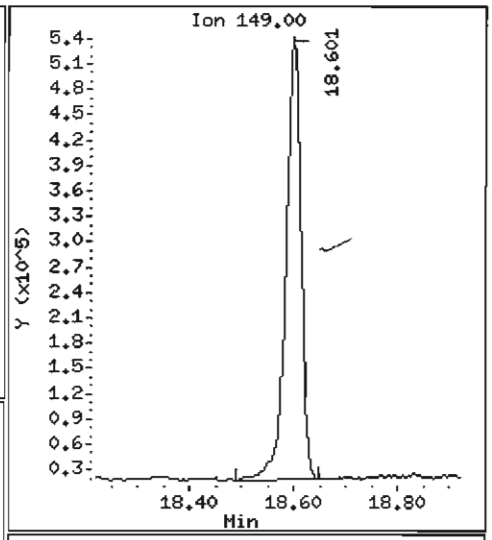
Concentration: 5315 ug/kg

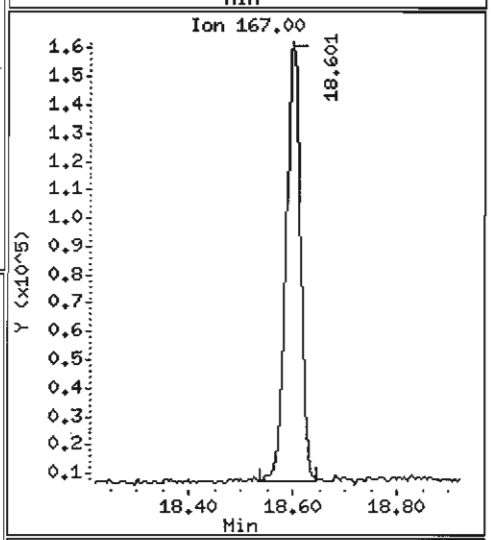


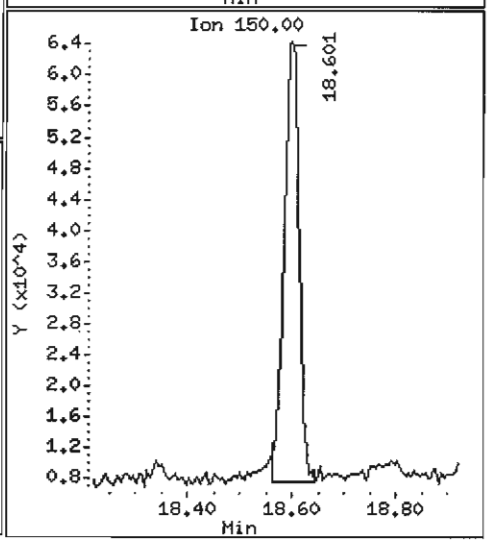












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

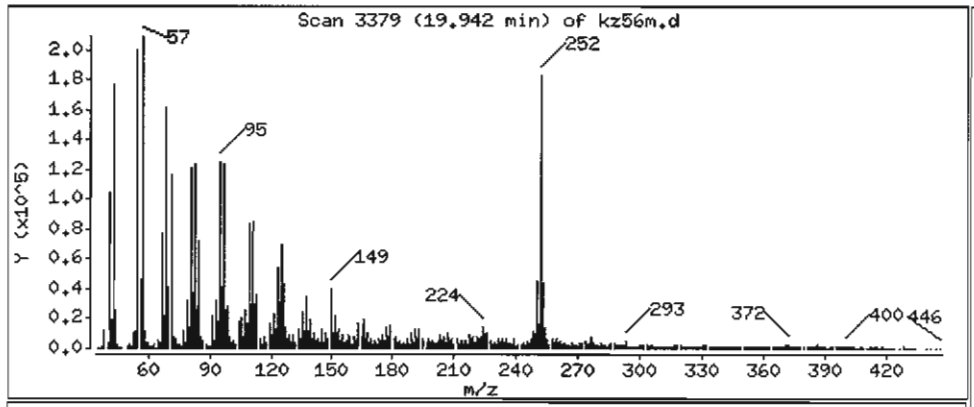
Operator: LJR/VTS

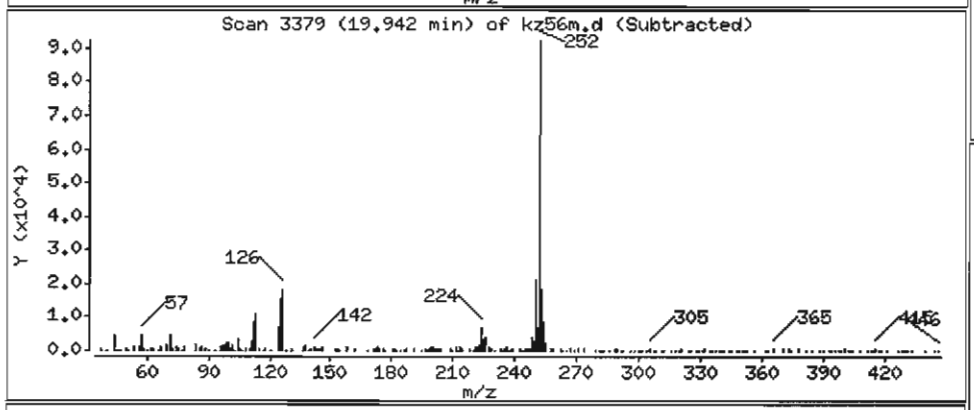
Column phase: ZB-5

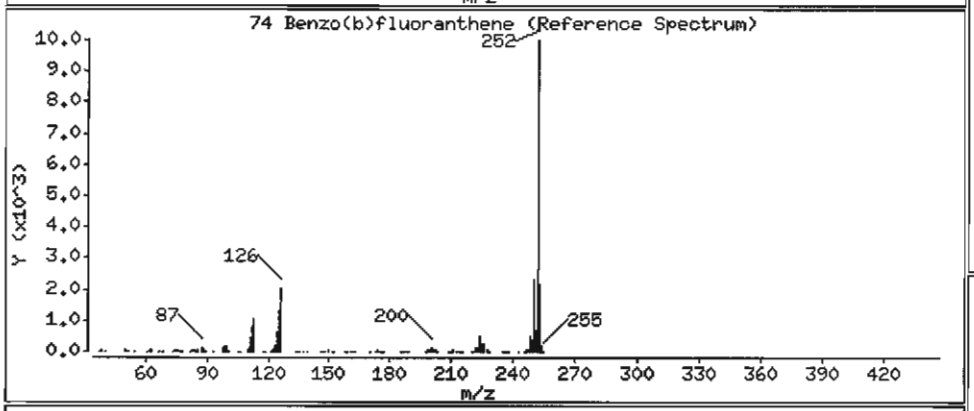
Column diameter: 0.32

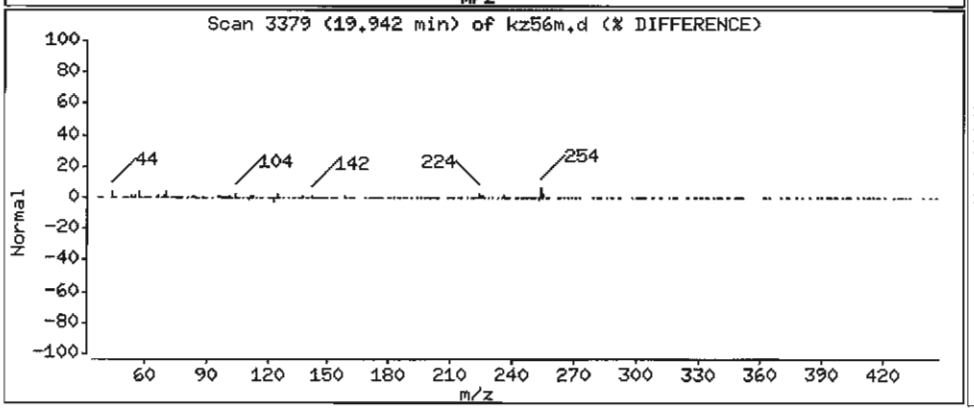
74 Benzo(b)fluoranthene

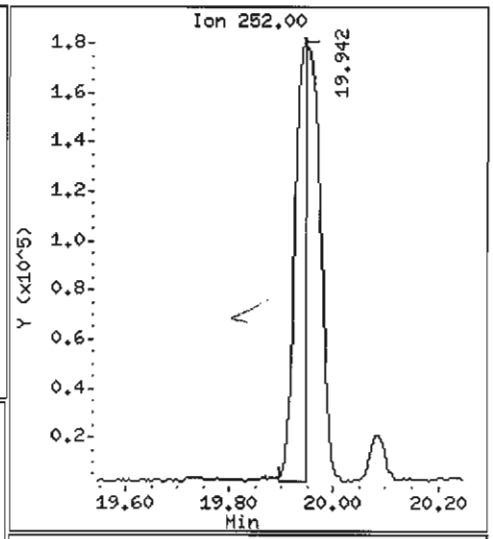
Concentration: 1406 ug/kg

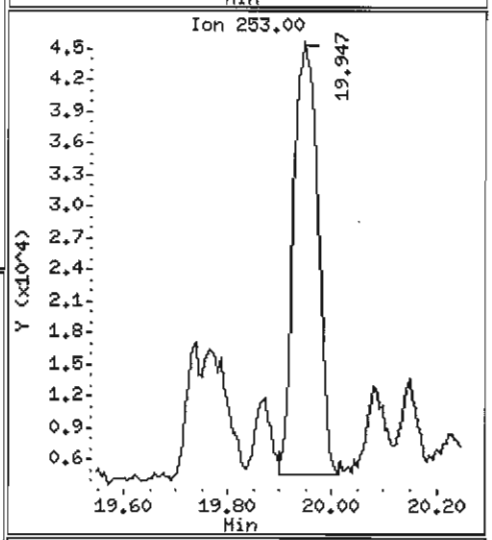


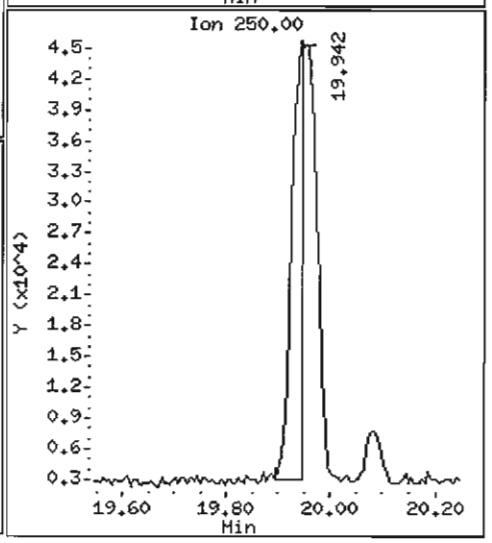












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

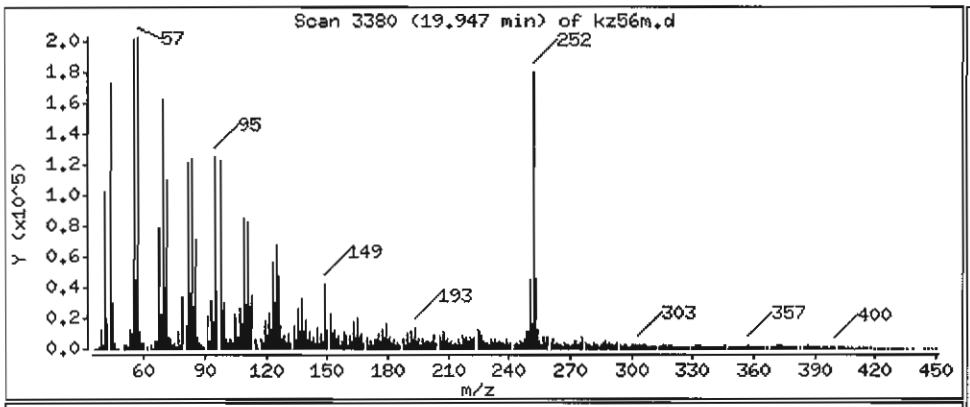
Operator: LJR/VTS

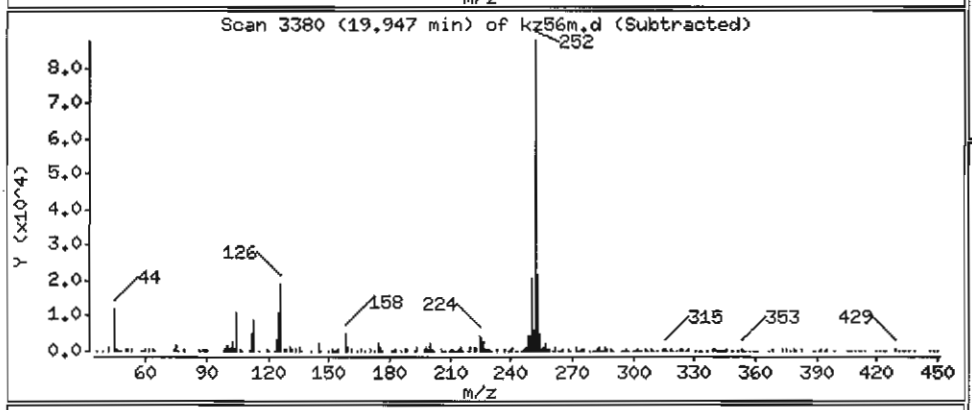
Column phase: ZB-5

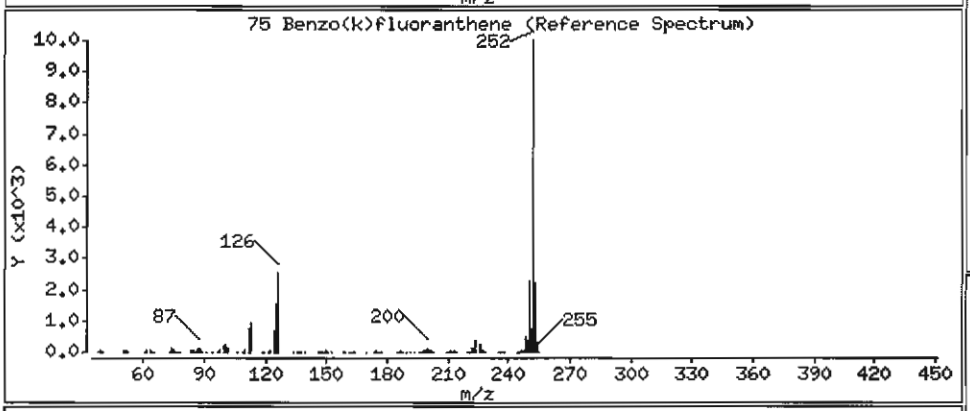
Column diameter: 0.32

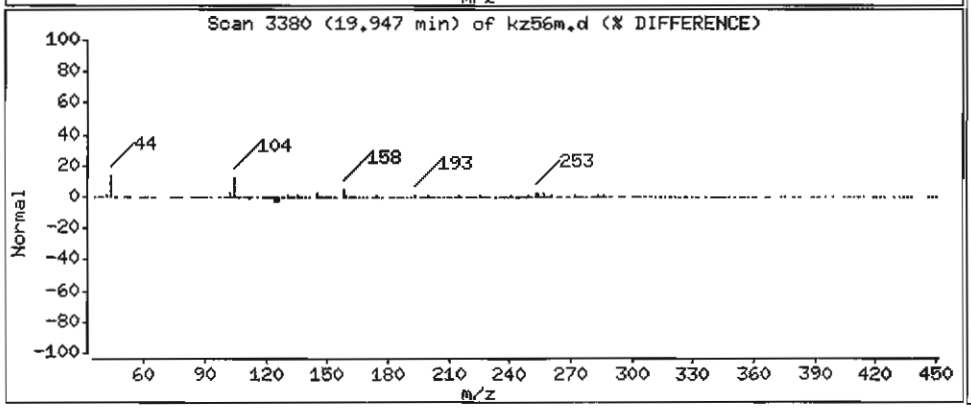
75 Benzo(k)fluoranthene

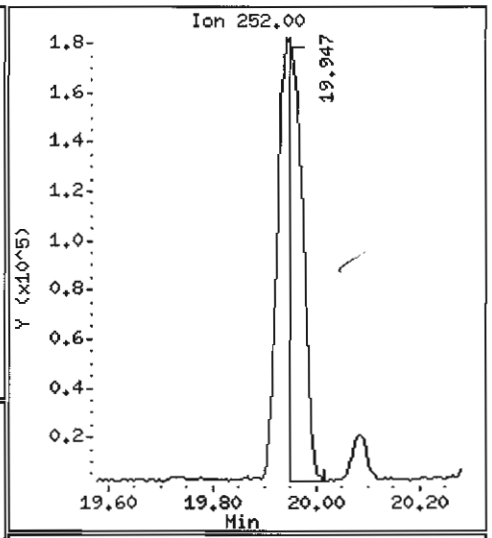
Concentration: 1702 ug/kg

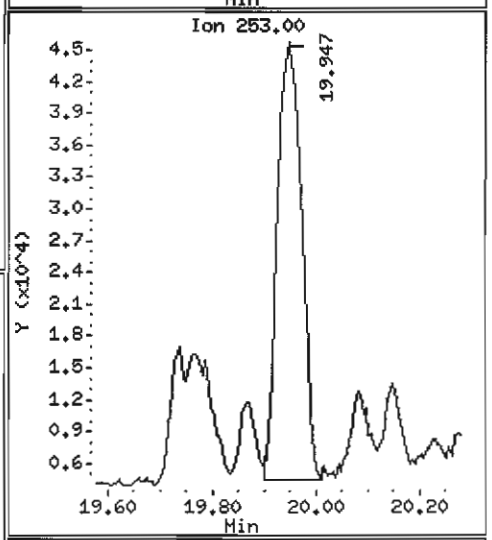


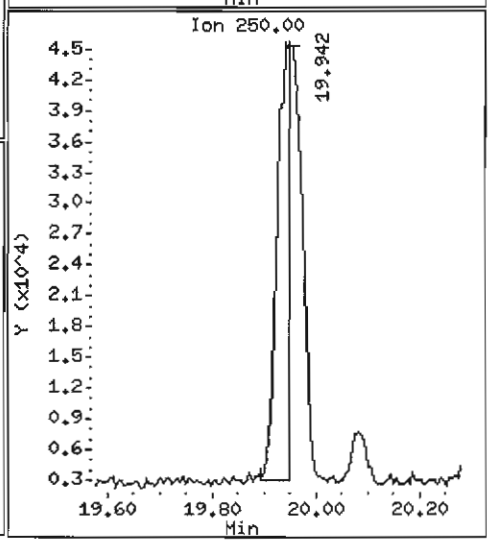












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

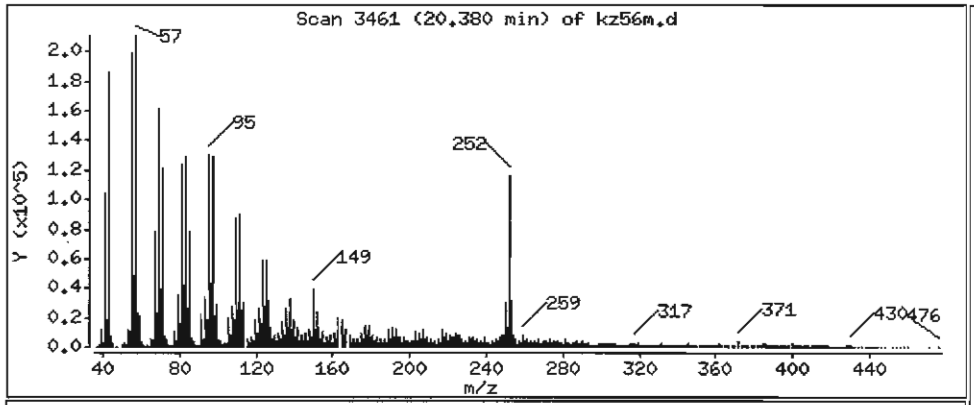
Operator: LJR/VTS

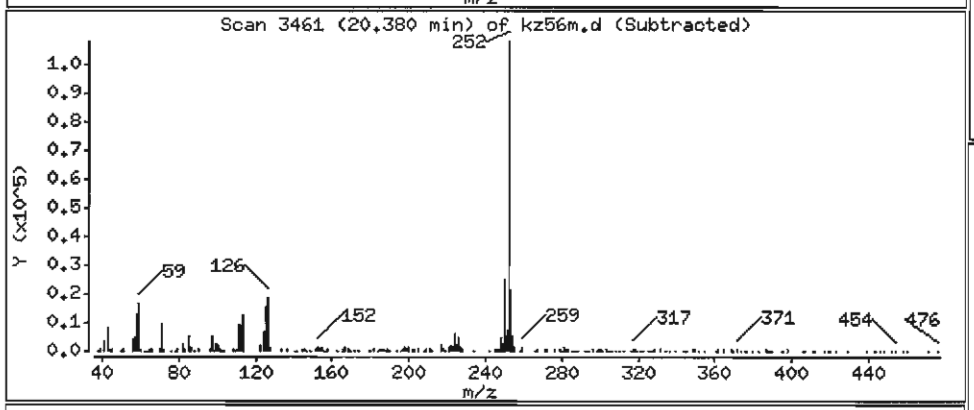
Column phase: ZB-5

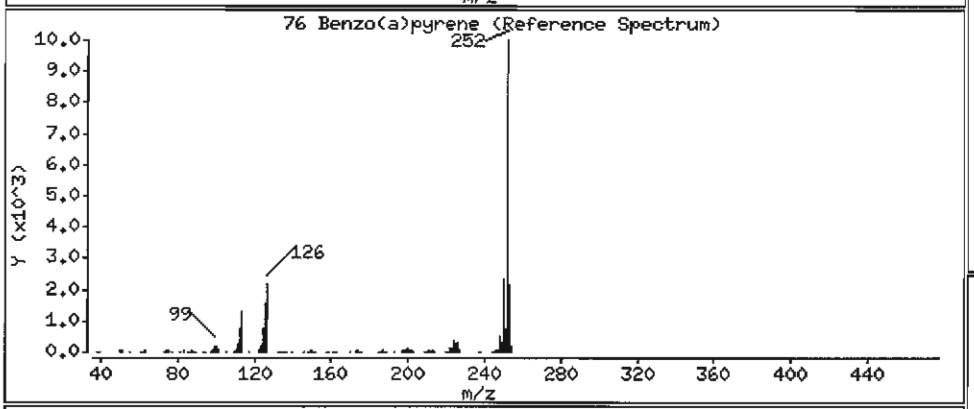
Column diameter: 0.32

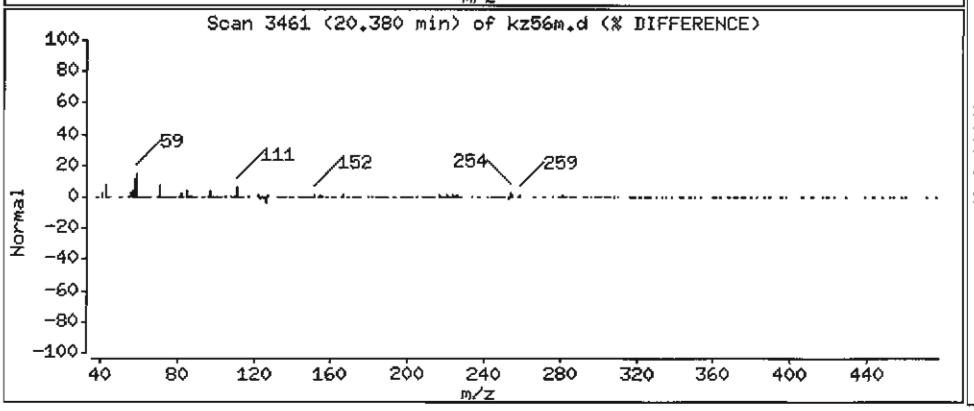
76 Benzo(a)pyrene

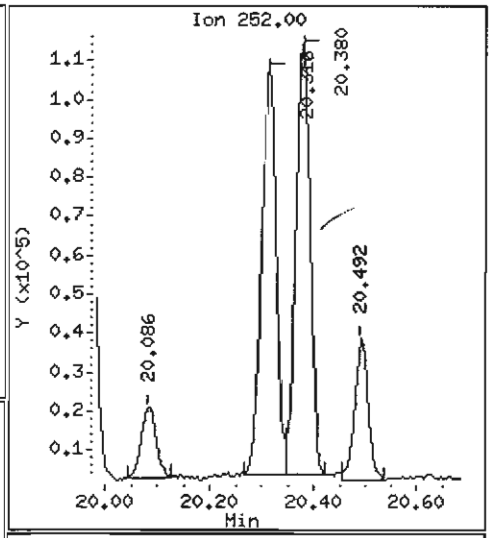
Concentration: 986.8 ug/kg

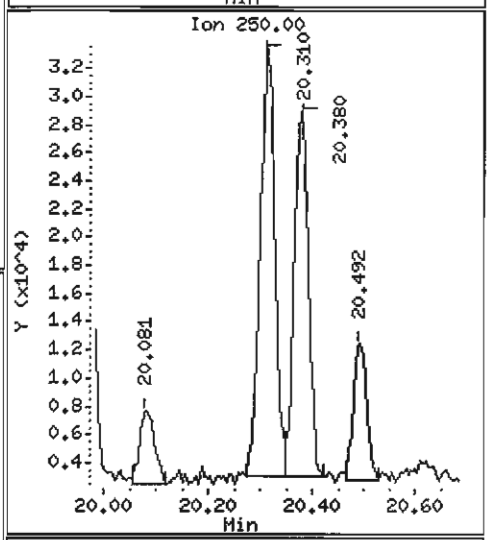


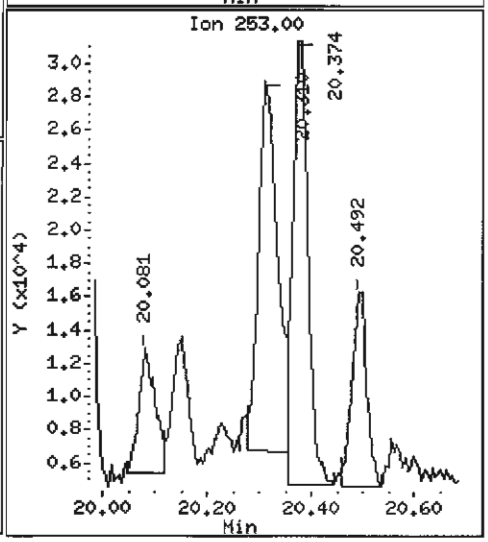












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

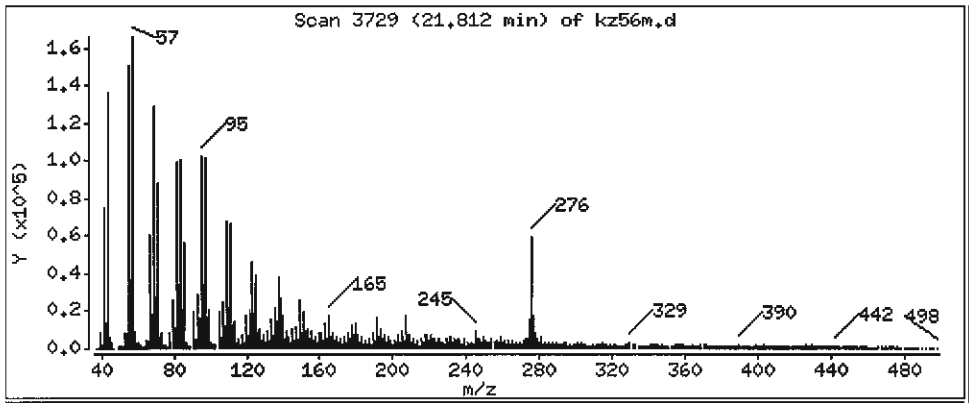
Operator: LJR/VTS

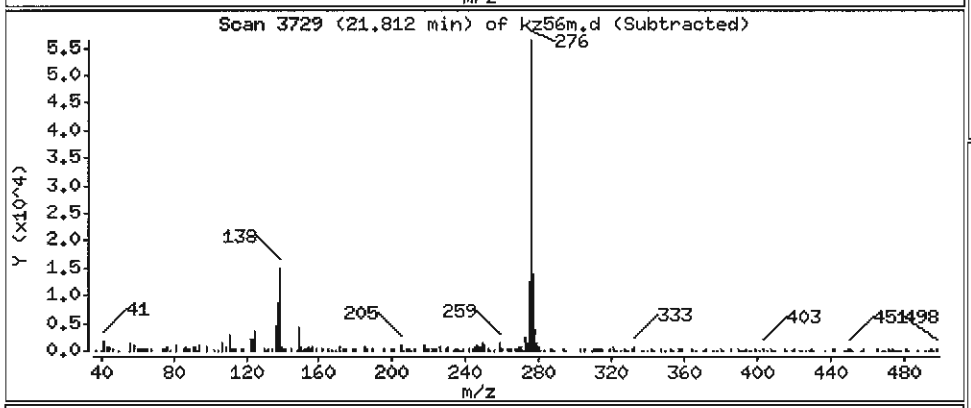
Column phase: ZB-5

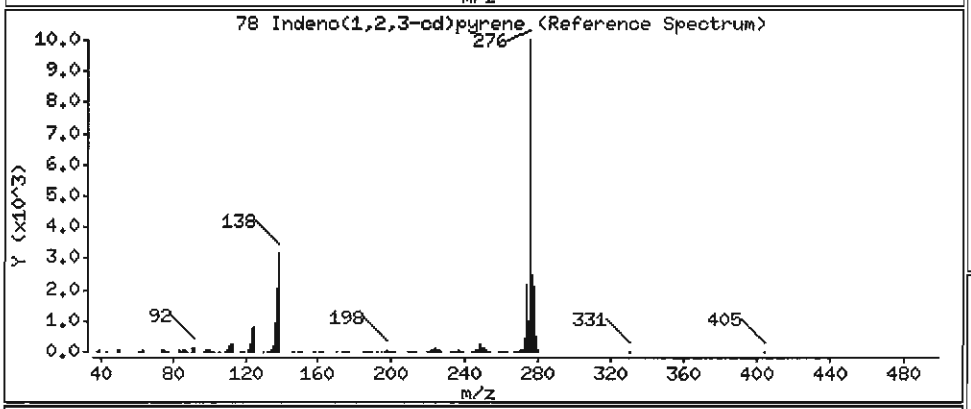
Column diameter: 0.32

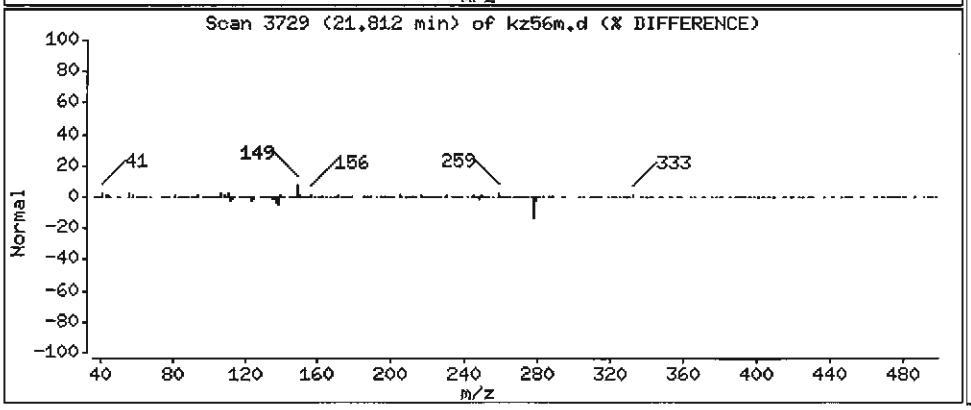
78 Indeno(1,2,3-cd)pyrene

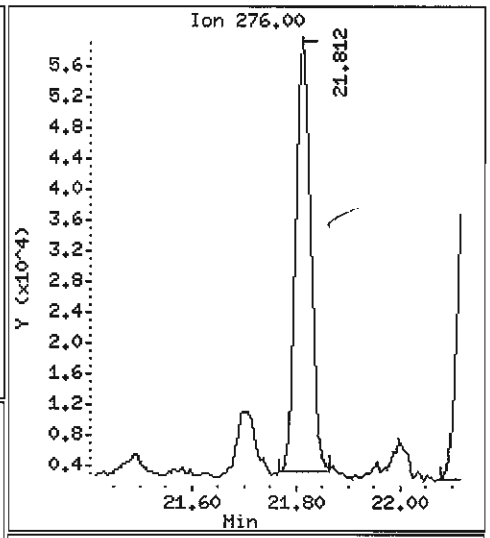
Concentration: 437.2 ug/kg

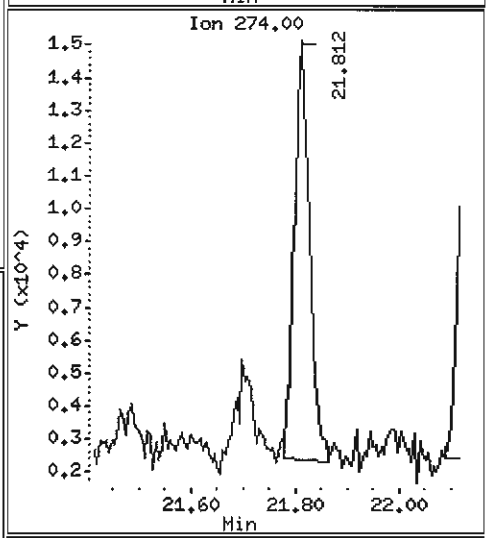


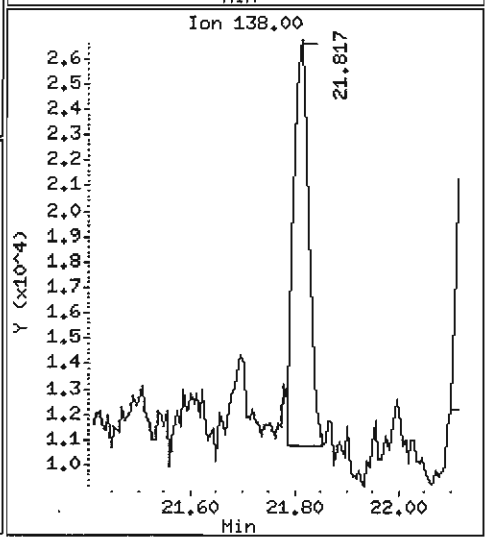












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

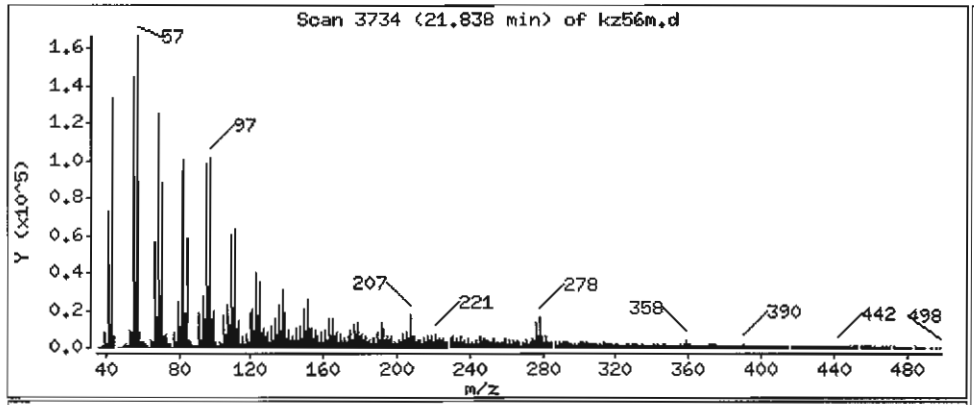
Operator: LJR/VTS

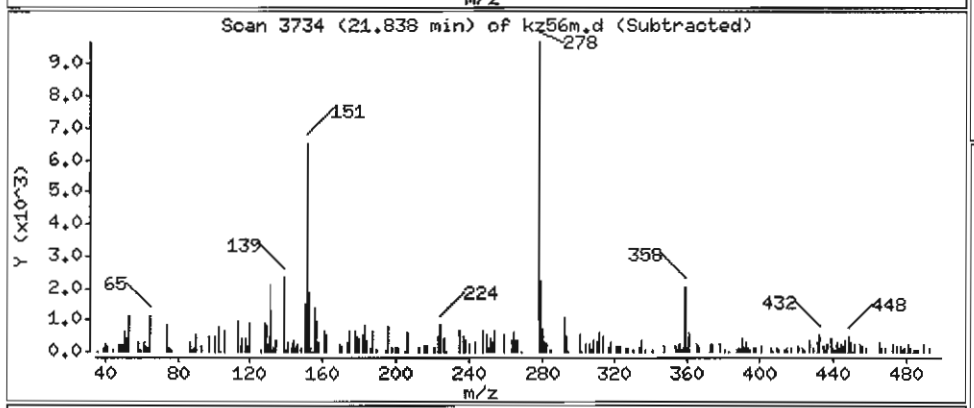
Column phase: ZB-5

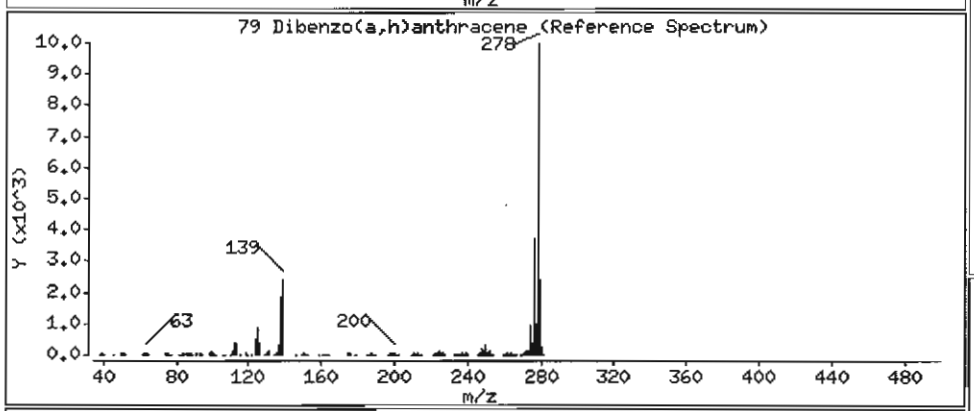
Column diameter: 0.32

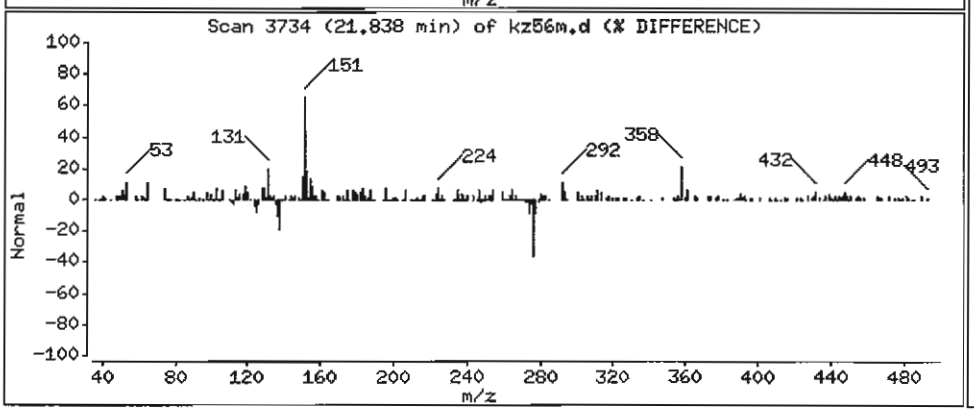
79 Dibenzo(a,h)anthracene

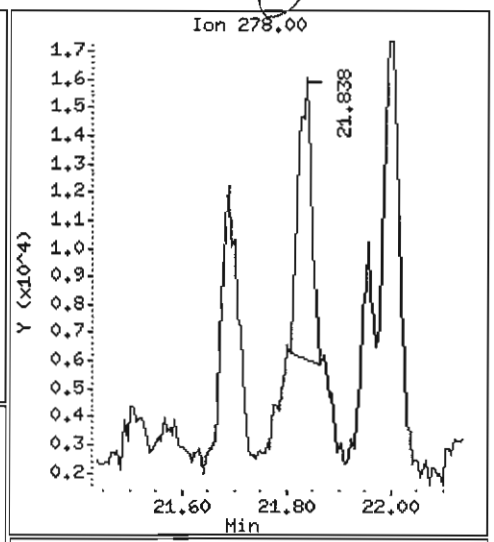
Concentration: 83.94 ug/kg

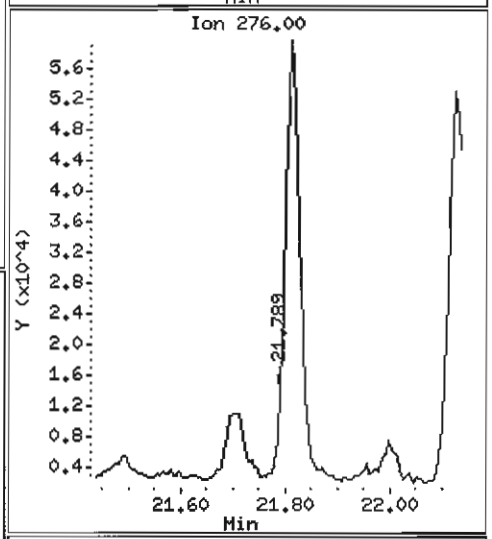


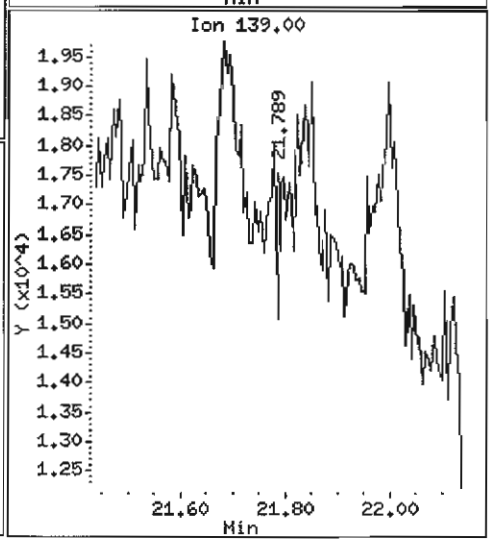












Data File: /chem1/nt6.i/20070529.b/kz56m.d

Date : 29-MAY-2007 14:20

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,3

Volume Injected (uL): 1.0

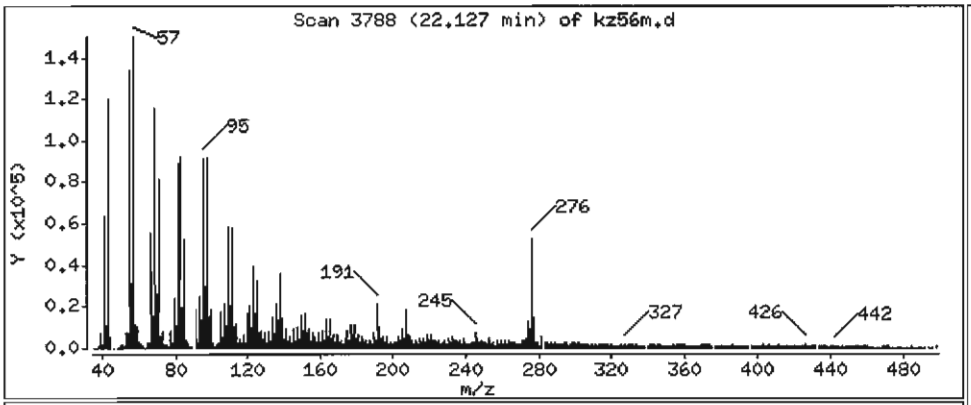
Operator: LJR/VTS

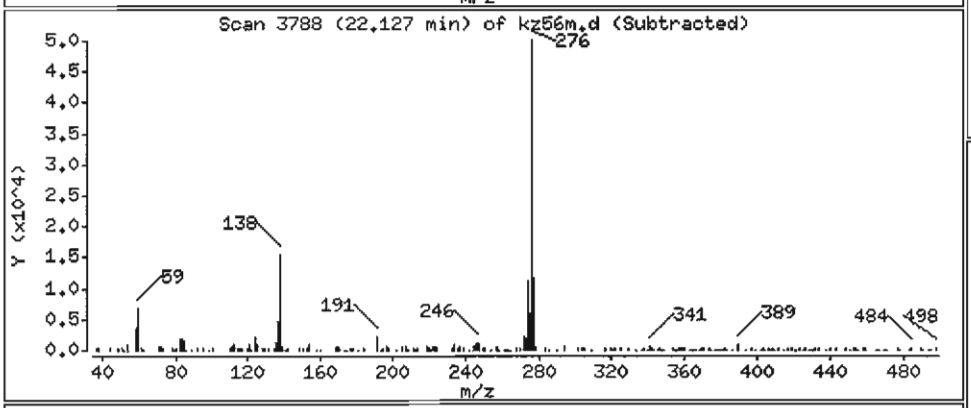
Column phase: ZB-5

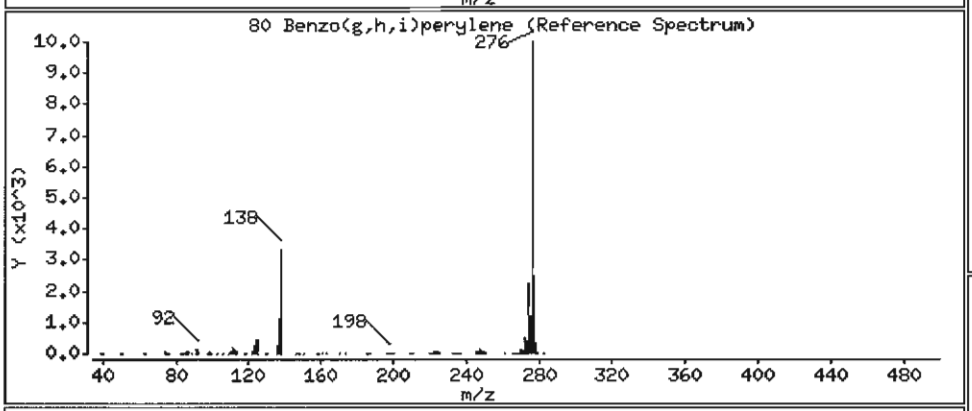
Column diameter: 0.32

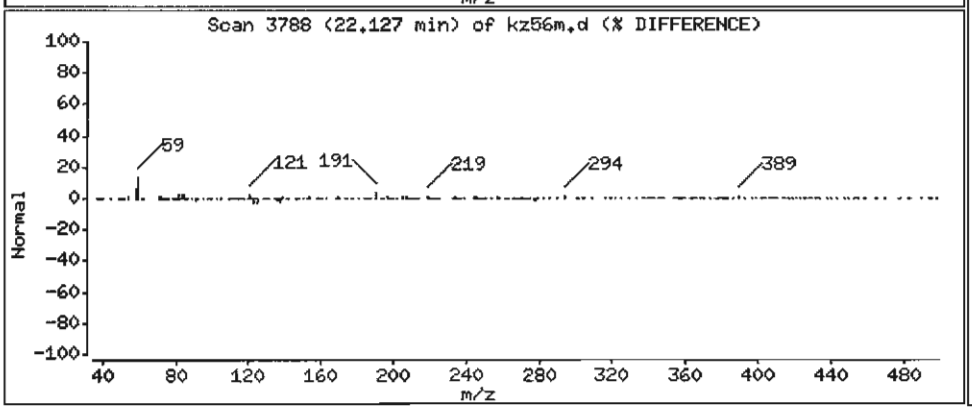
80 Benzo(g,h,i)perylene

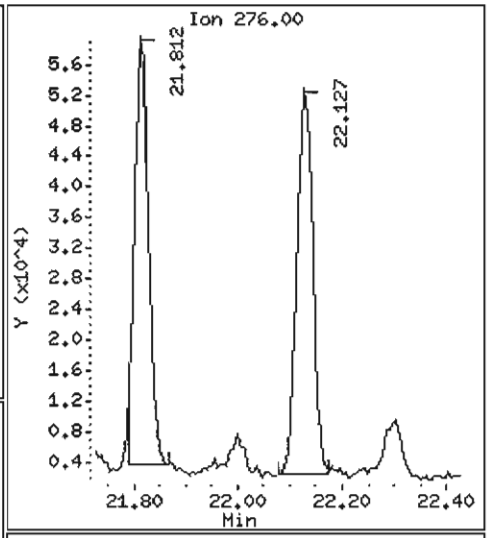
Concentration: 461.4 ug/kg

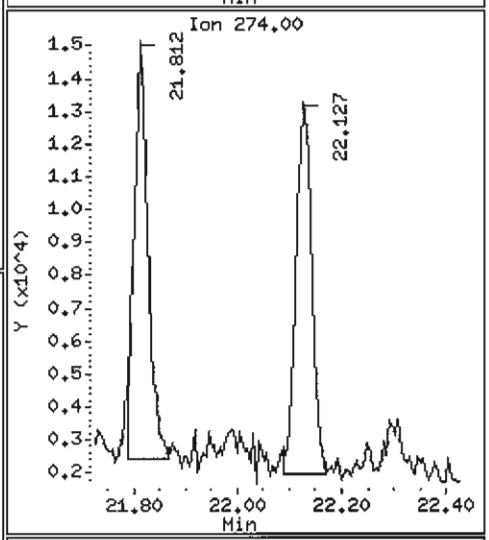


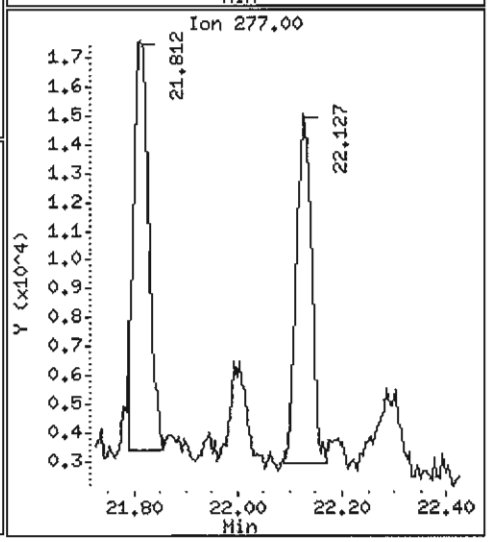




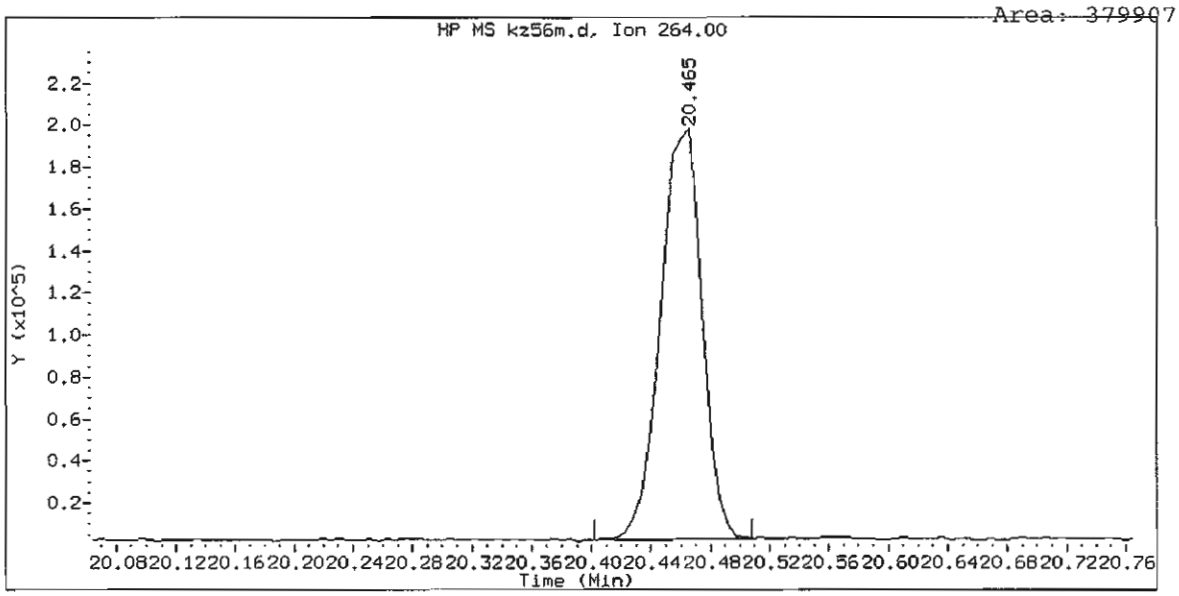


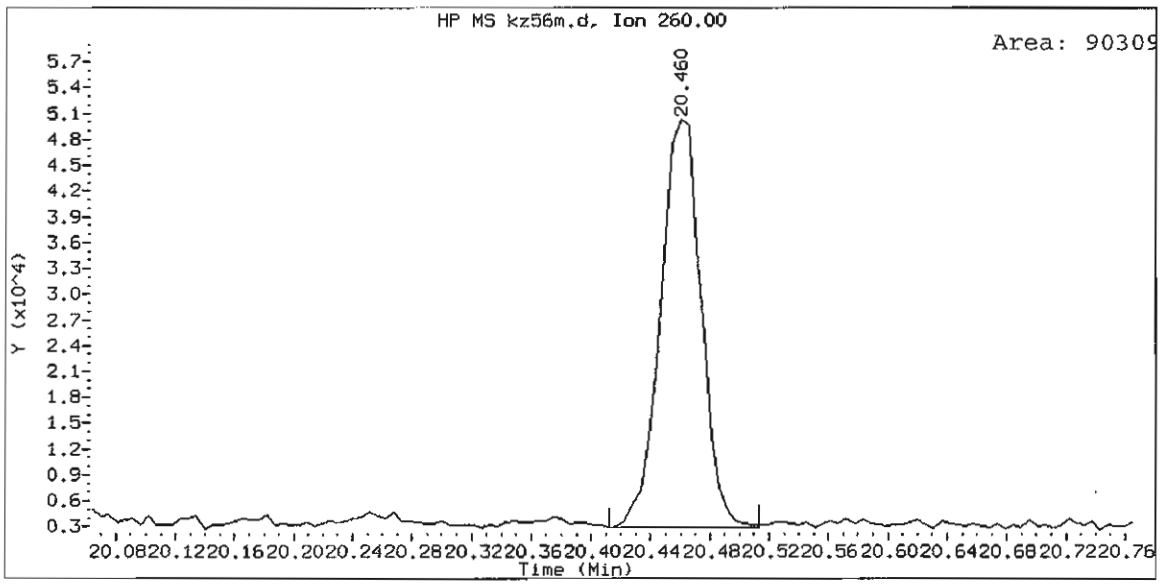


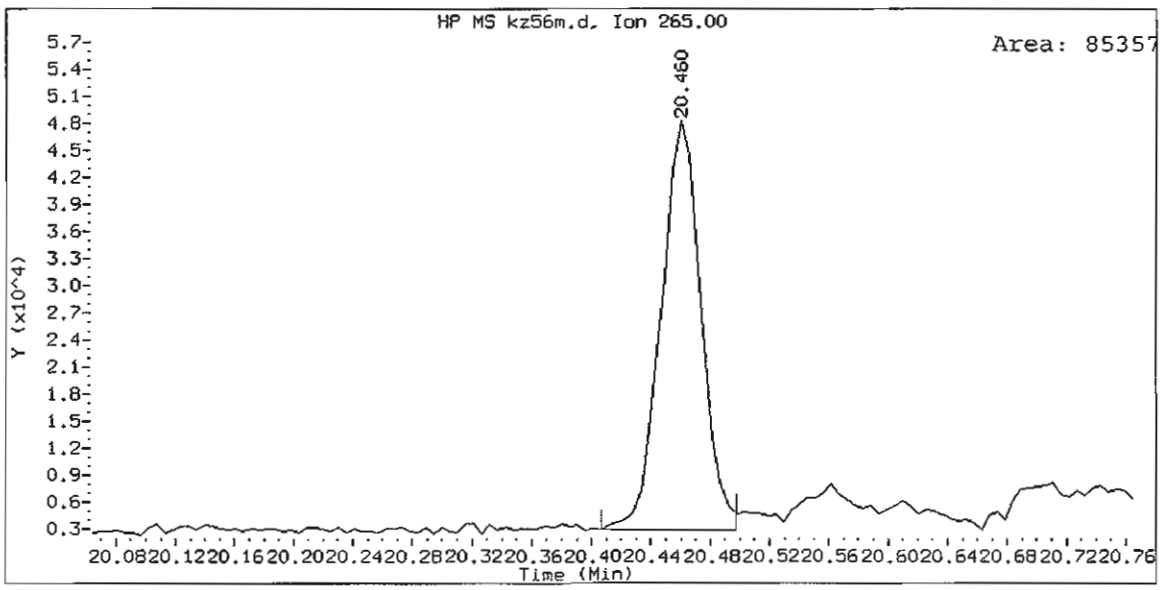




KZ56M, /chem1/nt6.i/20070529.b/kz56m.d
Perylene-d12 Amount: 20.00







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC06-S
DILUTION

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 17:38
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Percent Moisture: 48.1%
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	190	160 J
91-57-6	2-Methylnaphthalene	190	< 190 U
208-96-8	Acenaphthylene	190	< 190 U
83-32-9	Acenaphthene	190	< 190 U
132-64-9	Dibenzofuran	190	< 190 U
86-73-7	Fluorene	190	< 190 U
85-01-8	Phenanthrene	190	950
120-12-7	Anthracene	190	200
206-44-0	Fluoranthene	190	2,700
129-00-0	Pyrene	190	2,300
56-55-3	Benzo(a)anthracene	190	860
117-81-7	bis(2-Ethylhexyl)phthalate	190	5,600
218-01-9	Chrysene	190	1,400
205-99-2	Benzo(b)fluoranthene	190	1,800
207-08-9	Benzo(k)fluoranthene	190	1,600
50-32-8	Benzo(a)pyrene	190	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	190	390
53-70-3	Dibenz(a,h)anthracene	190	< 190 U
191-24-2	Benzo(g,h,i)perylene	190	400

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.0%	2-Fluorobiphenyl	59.6%
d14-p-Terphenyl	65.4%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	60.4%	2-Fluorophenol	55.6%
2,4,6-Tribromophenol	70.8%	d4-2-Chlorophenol	60.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56mdl.d
Lab Smp Id: KZ56M
Client Smp ID: Y3-RC06-S
Inj Date : 29-MAY-2007 17:38
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56M,5
Misc Info : 07-9559
Comment : 1ul Injection
LJT 5/30/07
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 16
Dil Factor: 5.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	48.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.922	4.903	(0.723)	75402	4.17290	804.0
$ 2 Phenol-d5	99	6.461	6.447	(0.949)	95941	4.52521	871.9
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.525	6.521	(0.958)	66032	4.50432	867.9
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.808	6.805	(1.000)	198747	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.102	7.093	(1.043)	26362	2.94076	566.6
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.727	7.729	(0.876)	53023	3.14629	606.2
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.822	8.819	(1.000)	708240	20.0000	
	28 Naphthalene	128	8.854	8.851	(1.004)	34729	0.82785 LDL	159.5
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.623	10.619	(0.911)	75397	2.97898	574.0
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.659	11.655	(1.000)	375010	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.946	12.937	(1.110)	20275	5.31050	1023
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.009	14.001	(1.000)	589653	20.0000	
	60 Phenanthrene	178	14.047	14.038	(1.003)	194017	4.93037	950.0
	61 Anthracene	178	14.116	14.107	(1.008)	42041	1.03396	199.2
	62 Carbazole	167	14.421	14.412	(1.029)	42727	1.22119	235.3(M)
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.975	15.956	(1.140)	522608	13.9975	2697
65 Pyrene	202	16.317	16.303	(0.892)	484677	11.9573	2304
$ 66 Terphenyl-d14	244	16.664	16.650	(0.911)	84047	3.27430	630.9
67 Butylbenzylphthalate	149	17.567	17.558	(0.960)	37257	1.95489	376.7(M)
68 Benzo(a)anthracene	228	18.272	18.253	(0.999)	163188	4.47197	861.7
* 69 Chrysene-d12	240	18.299	18.280	(1.000)	488512	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.337	18.322	(1.002)	263912	7.14928	1378
72 bis(2-Ethylhexyl)phthalate	149	18.593	18.573	(0.952)	767078	29.2096	5628(M)
* 134 Di-n-octylphthalate-d4	153	19.523	19.503	(1.000)	766718	20.0000	
73 Di-n-octylphthalate	149	19.544	19.514	(1.001)	44410	0.97501	187.9(M)
74 Benzo(b)fluoranthene	252	19.929	19.898	(0.974)	206173	9.14831	1763(M)
75 Benzo(k)fluoranthene	252	19.939	19.930	(0.975)	182728	8.44017	1626(M)
76 Benzo(a)pyrene	252	20.367	20.336	(0.996)	122121	5.41374	1043
* 77 Perylene-d12	264	20.452	20.416	(1.000)	347587	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.798	21.768	(1.066)	53613	2.01030	387.3(M)
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	22.108	22.078	(1.081)	50365	2.06152	397.2(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56mdl.d
Lab Smp Id: KZ56M
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9559

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC06-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	198747	-8.70
27 Naphthalene-d8	775413	387706	1550826	708240	-8.66
42 Acenaphthene-d10	371068	185534	742136	375010	1.06
59 Phenanthrene-d10	554165	277082	1108330	589653	6.40
69 Chrysene-d12	436021	218010	872042	488512	12.04
134 Di-n-octylphthala	773344	386672	1546688	766718	-0.86
77 Perylene-d12	622369	311184	1244738	347587	-44.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.05
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.04
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.03
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.06
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.11
134 Di-n-octylphthala	19.50	19.00	20.00	19.52	0.10
77 Perylene-d12	20.42	19.92	20.92	20.45	0.17

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

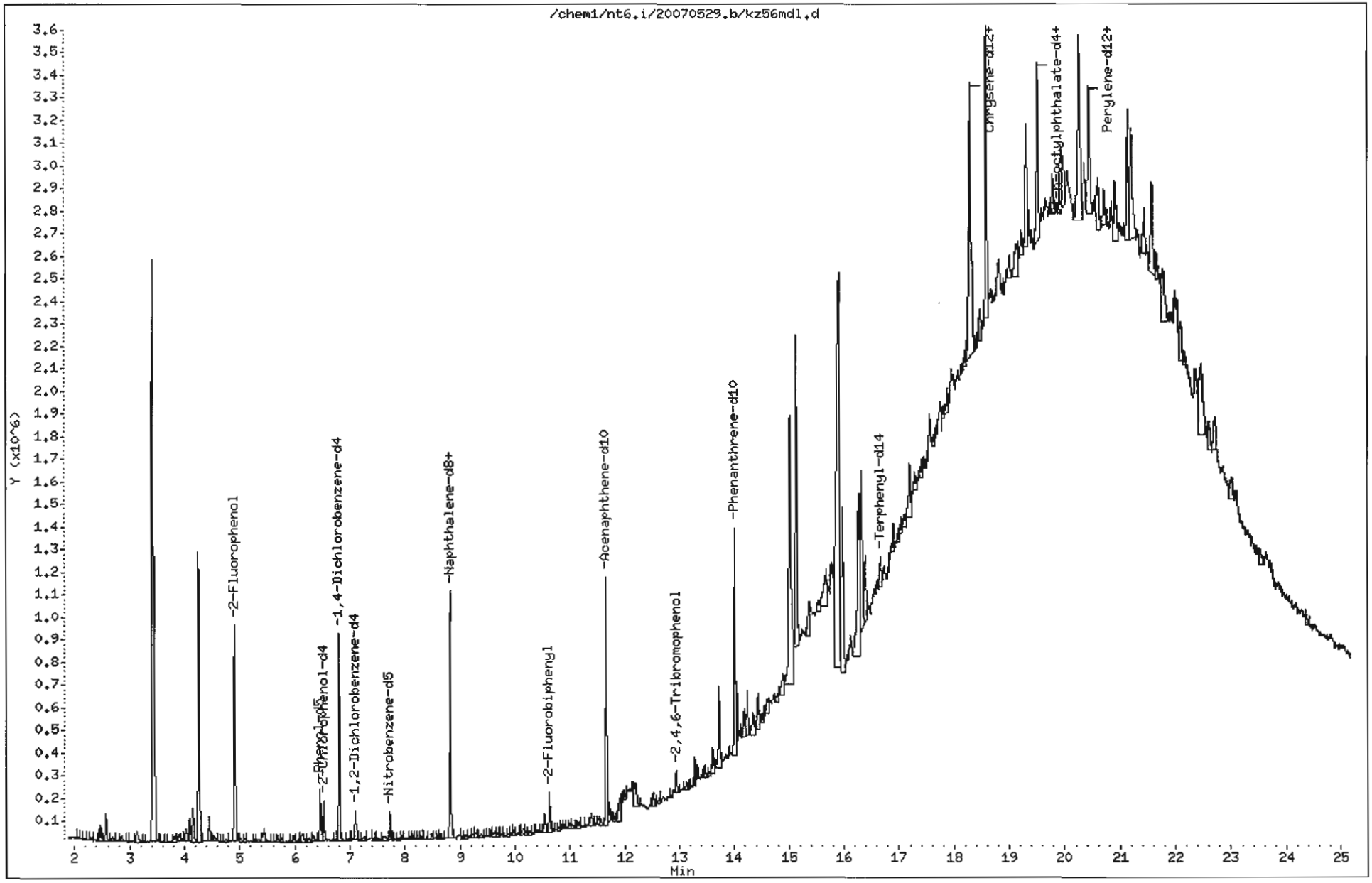
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56M
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9559

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC06-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1445	804.0	55.64	11-84
$ 2 Phenol-d5	1445	871.9	60.34	25-86
$ 5 2-Chlorophenol-d4	1445	867.9	60.06	23-91
$ 10 1,2-Dichlorobenzen	963.4	566.6	58.82	24-90
$ 18 Nitrobenzene-d5	963.4	606.2	62.93	26-88
$ 36 2-Fluorobiphenyl	963.4	574.0	59.58	34-91
$ 55 2,4,6-Tribromophen	1445	1023	70.81	25-107
$ 66 Terphenyl-d14	963.4	630.9	65.49	22-100

Data File: /chem1/nt6.i/20070529.b/kz56md1.d
Date : 29-MAY-2007 17:38
Client ID: Y3-RC06-S
Sample Info: KZ56M,5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0632

Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

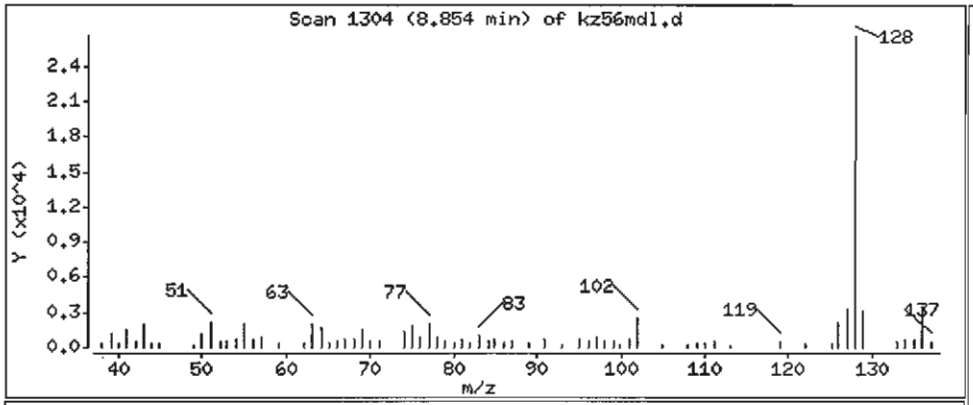
Operator: LJR/VTS

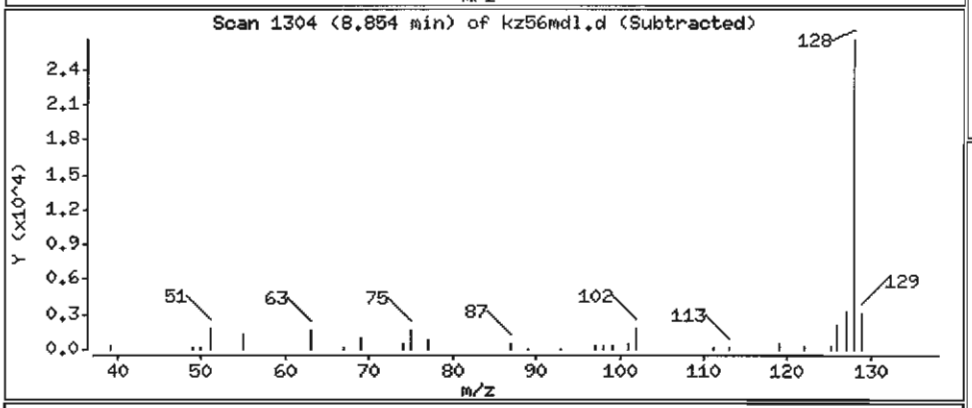
Column phase: ZB-5

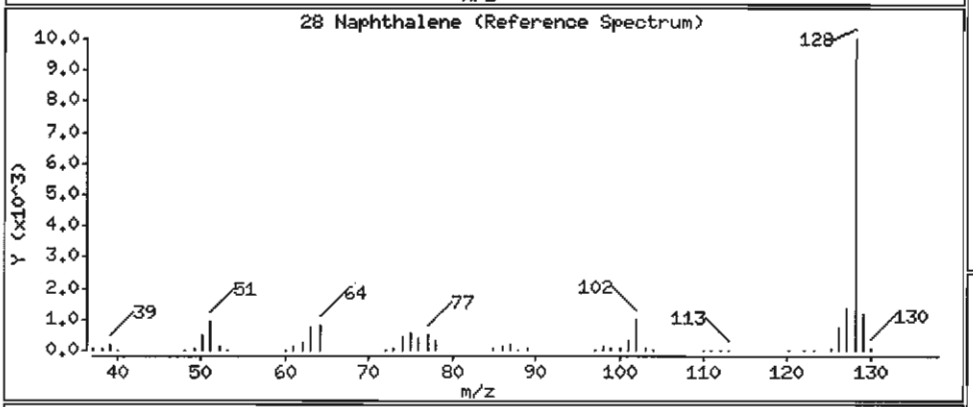
Column diameter: 0.32

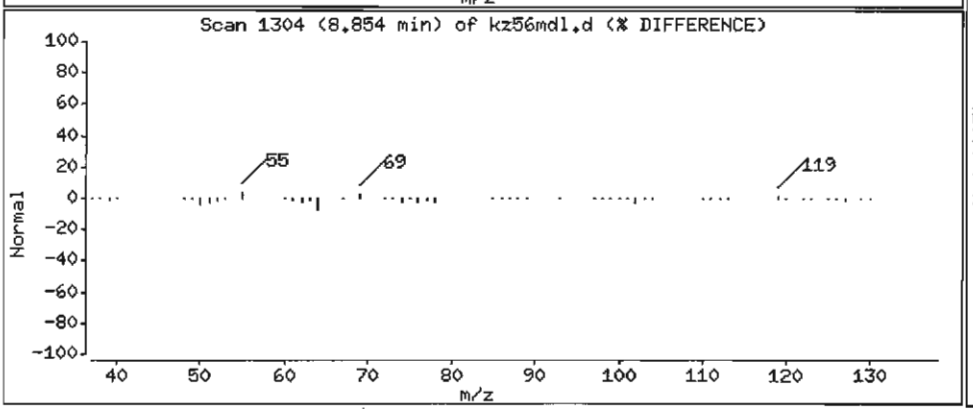
28 Naphthalene

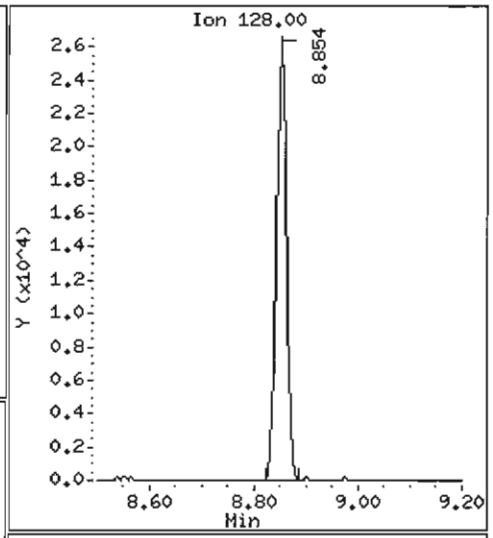
Concentration: 159.5 ug/kg

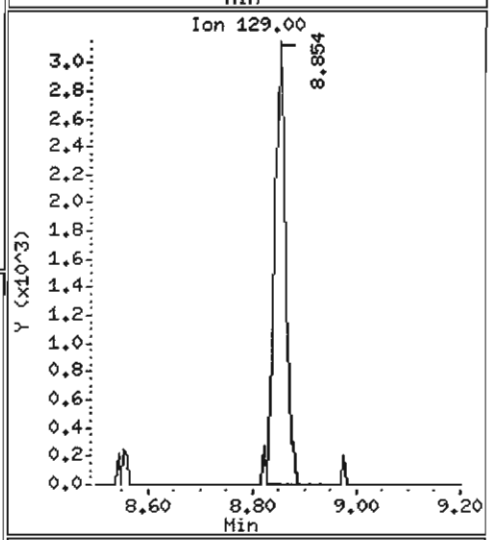


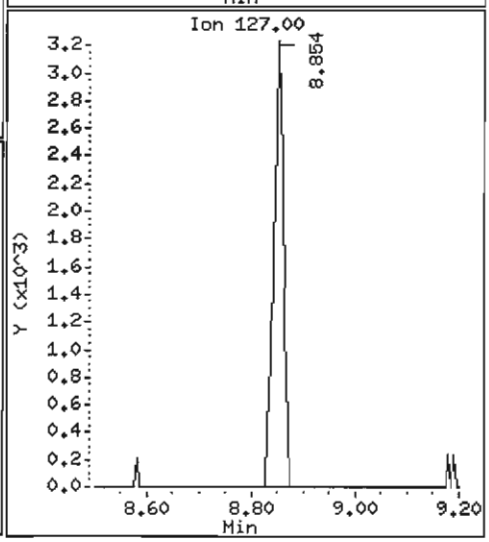












Data File: /chem1/nt6.i/20070529.b/kz56md1.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

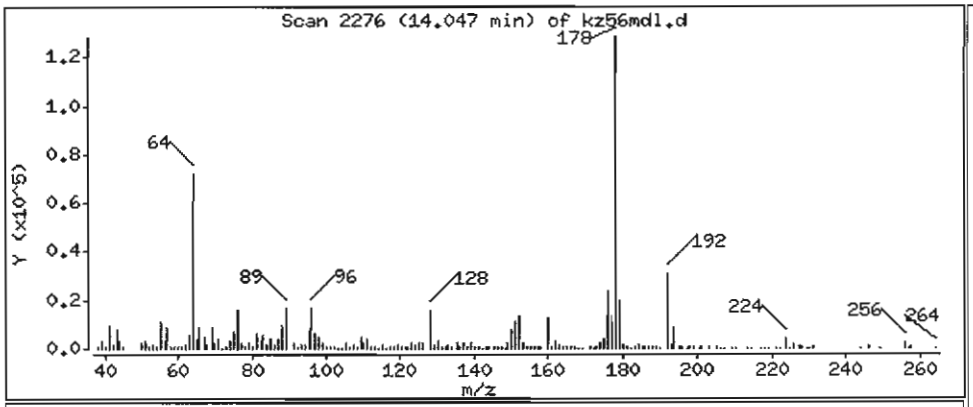
Operator: LJR/VTS

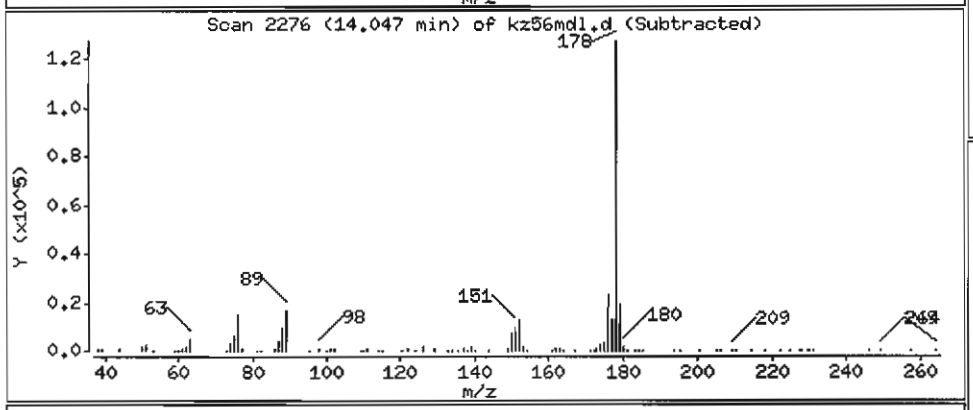
Column phase: ZB-5

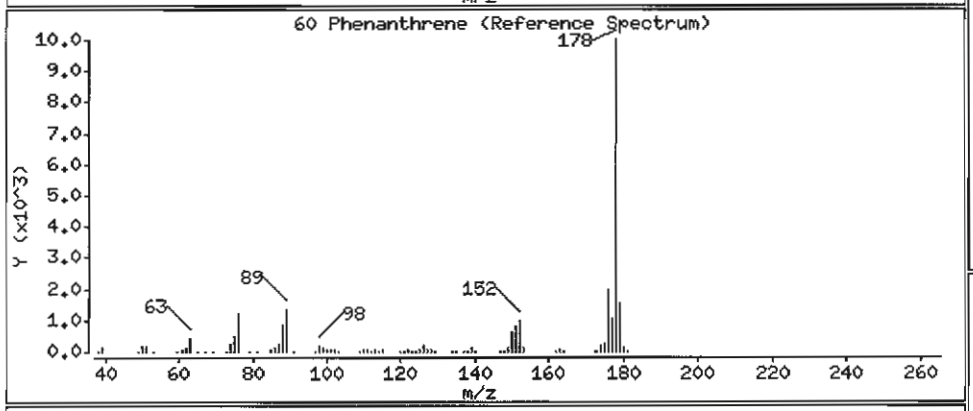
Column diameter: 0.32

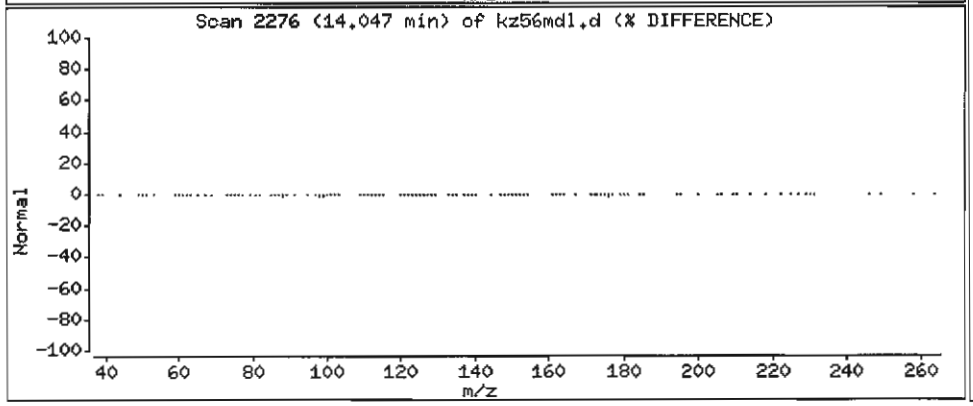
60 Phenanthrene

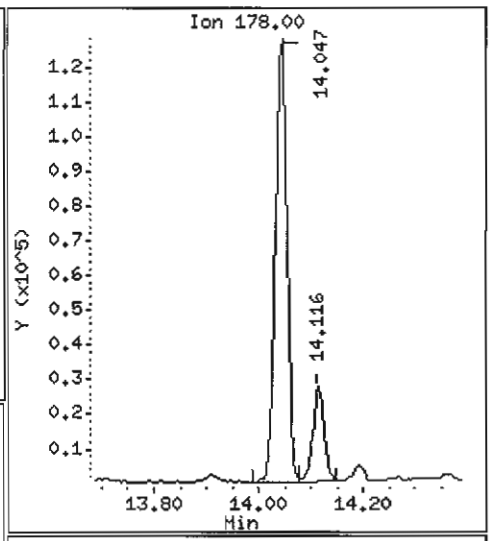
Concentration: 950.0 ug/kg

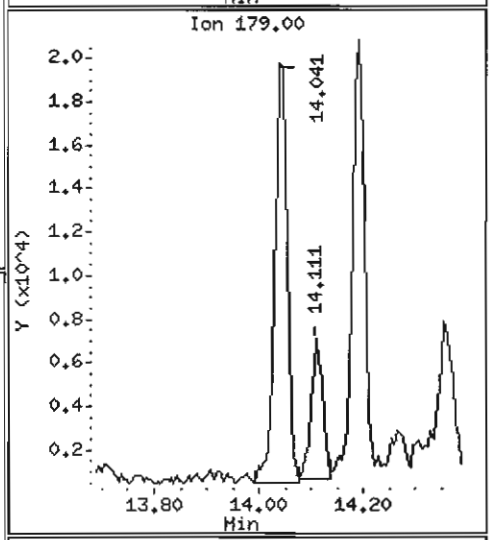


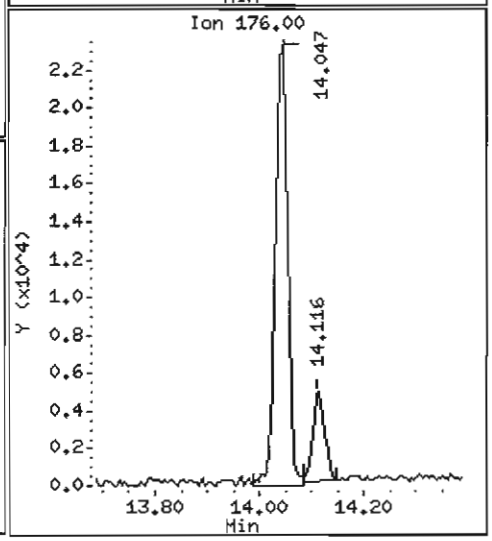












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

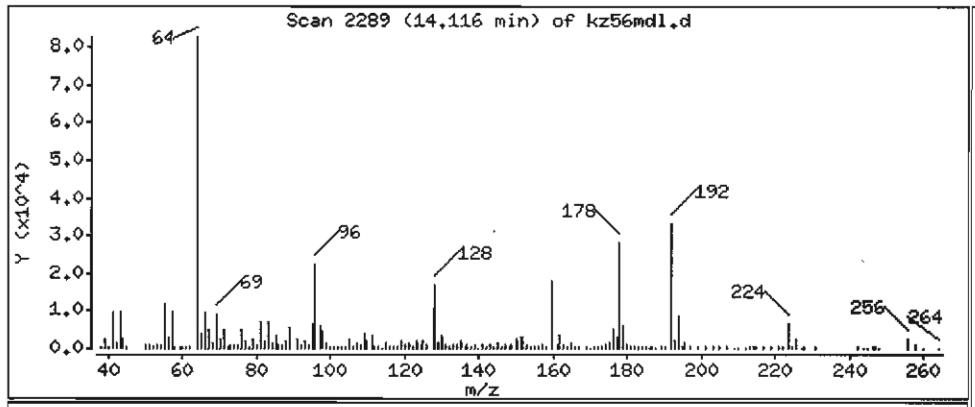
Operator: LJR/VTS

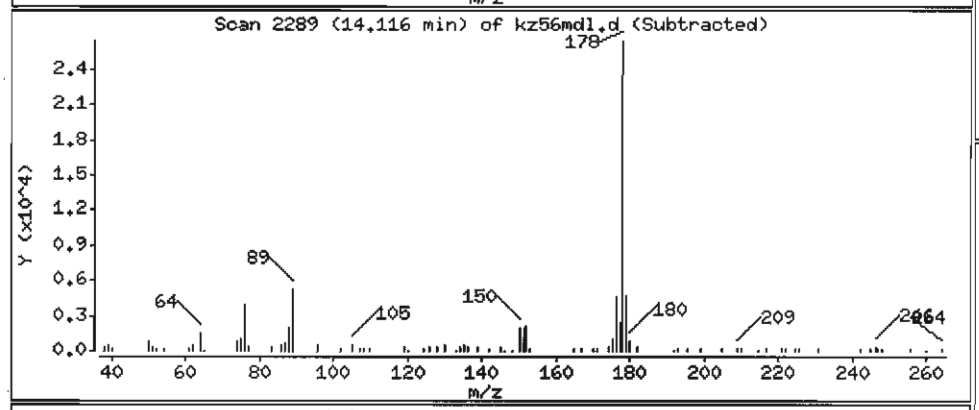
Column phase: ZB-5

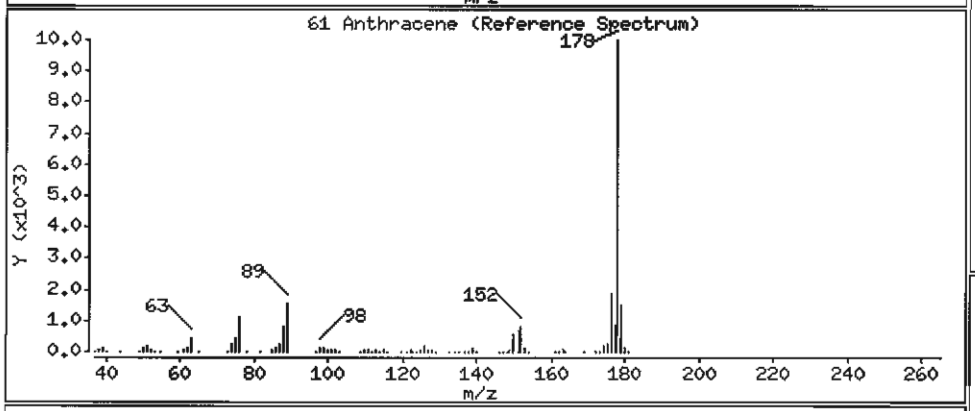
Column diameter: 0.32

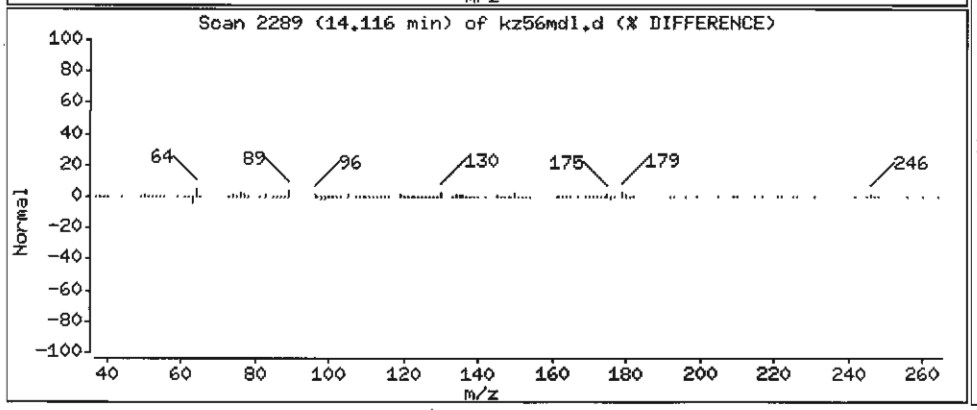
61 Anthracene

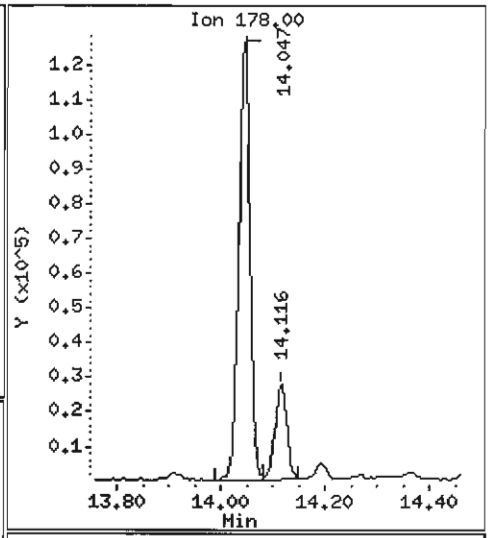
Concentration: 199.2 ug/kg

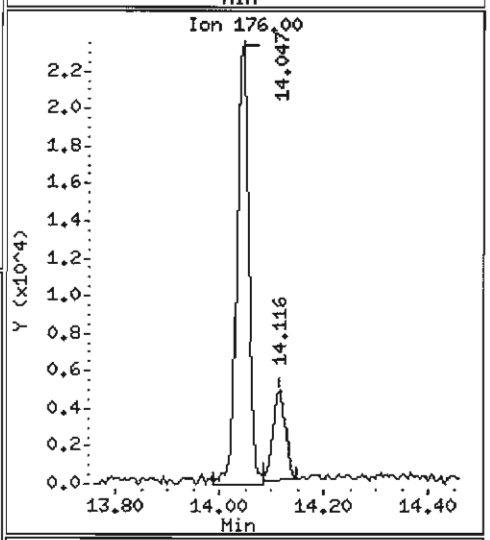


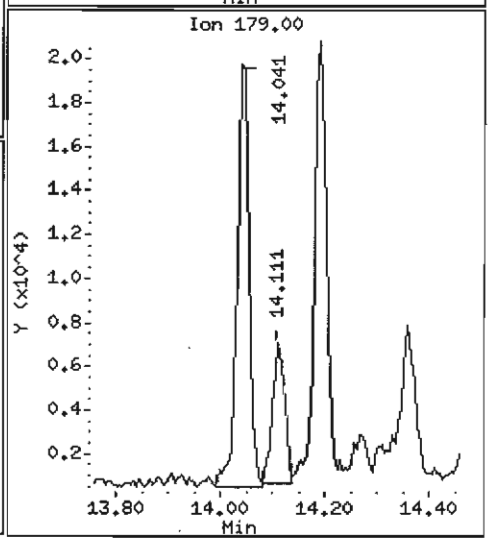












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

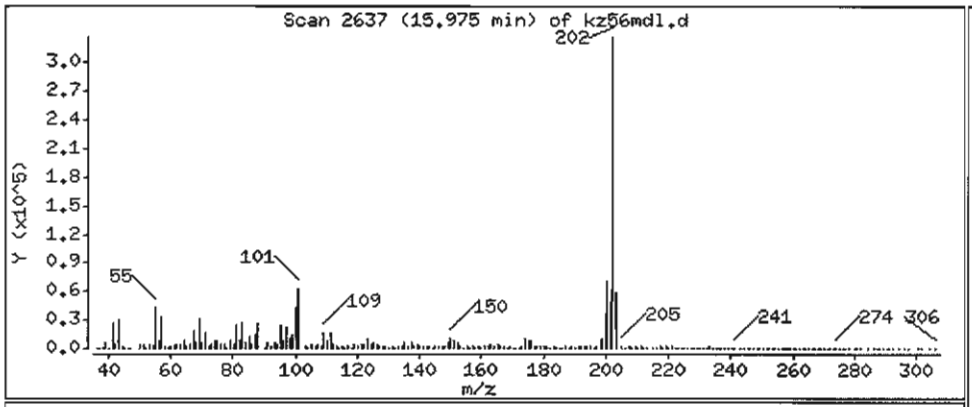
Operator: LJR/VTS

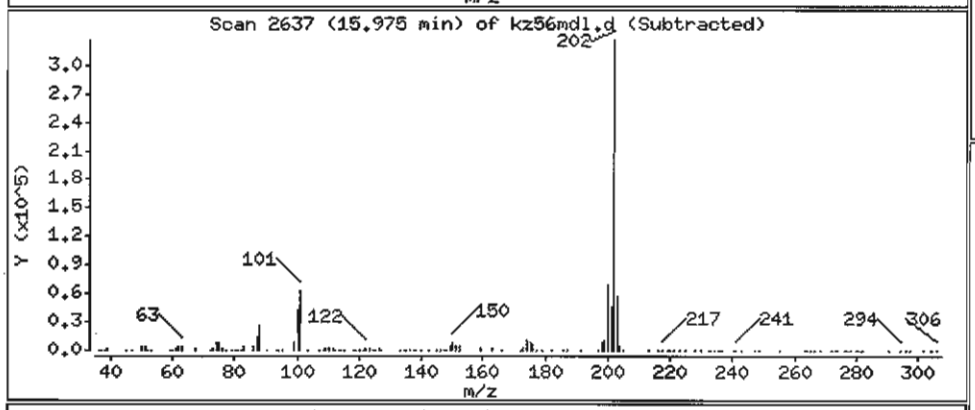
Column phase: ZB-5

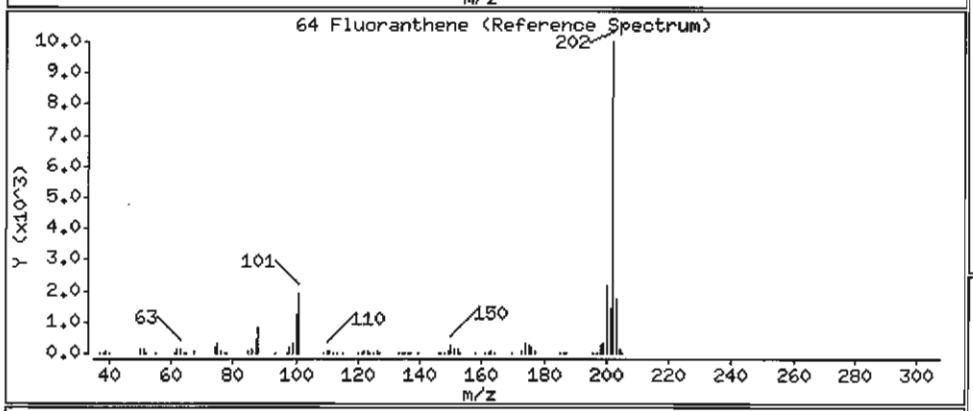
Column diameter: 0.32

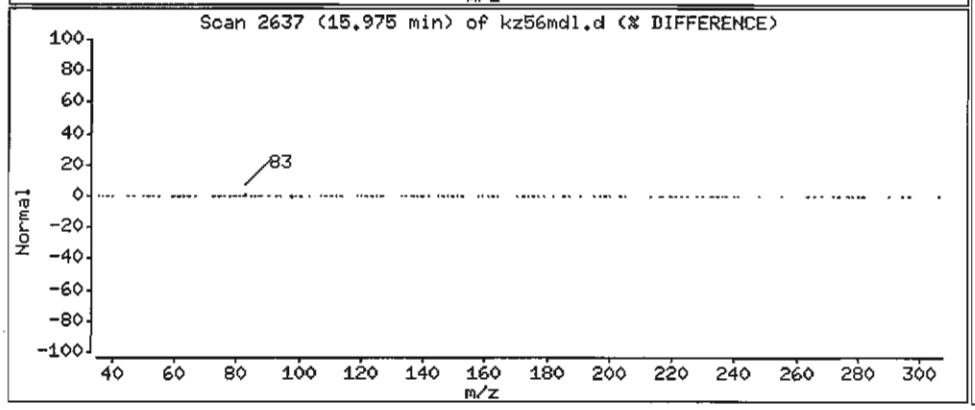
64 Fluoranthene

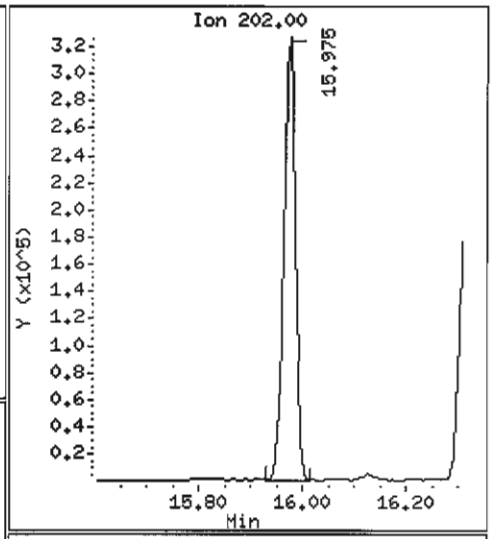
Concentration: 2697 ug/kg

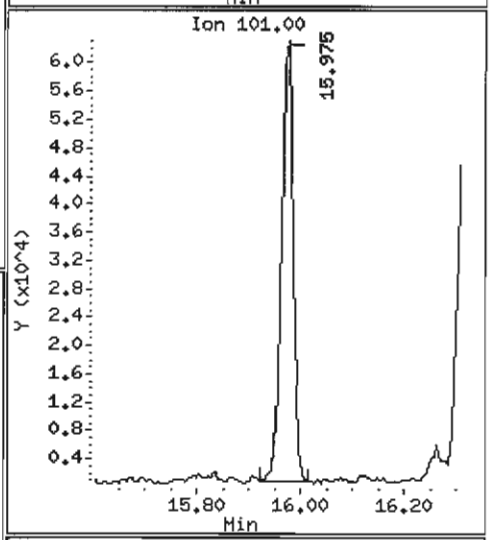


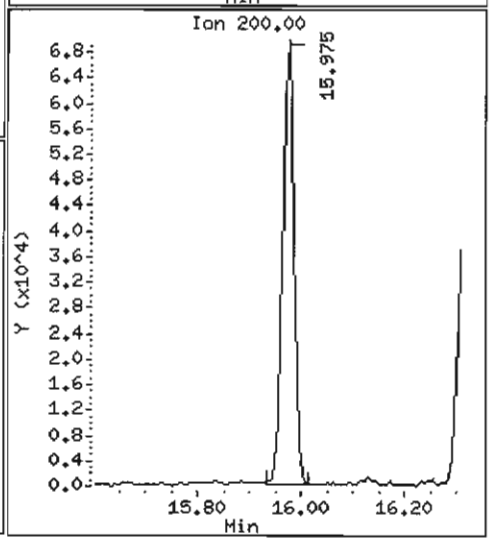












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

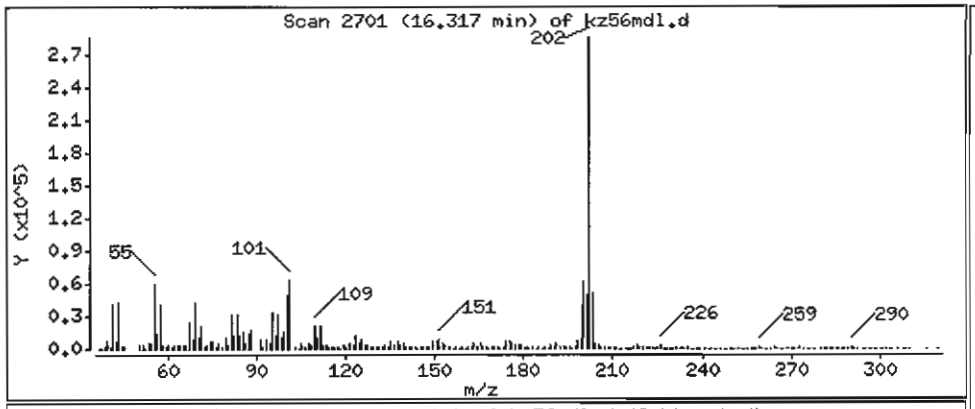
Operator: LJR/VTS

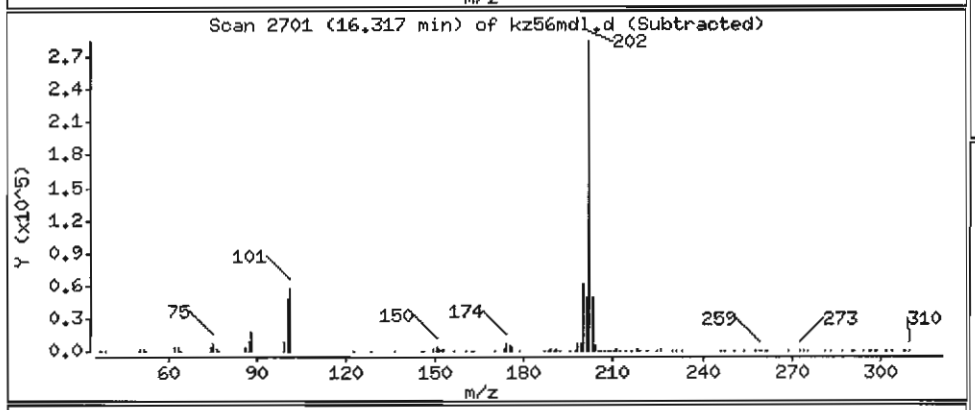
Column phase: ZB-5

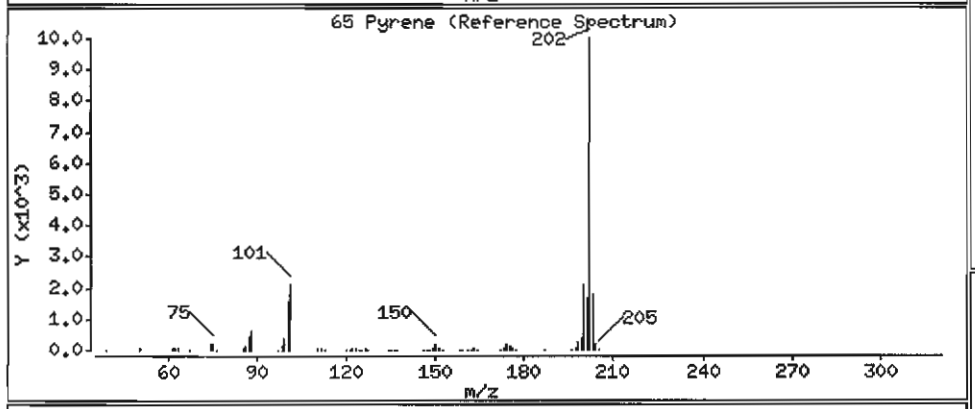
Column diameter: 0.32

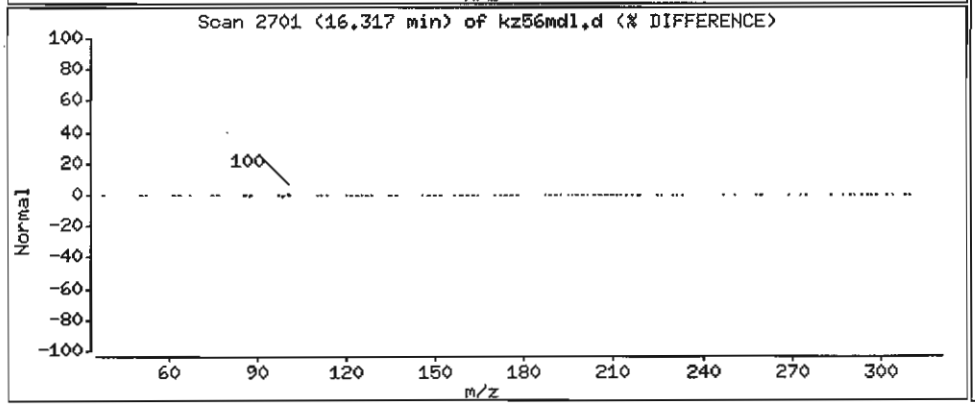
65 Pyrene

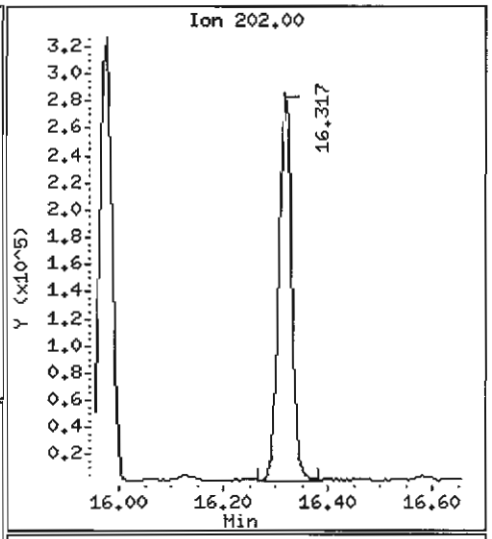
Concentration: 2304 ug/kg

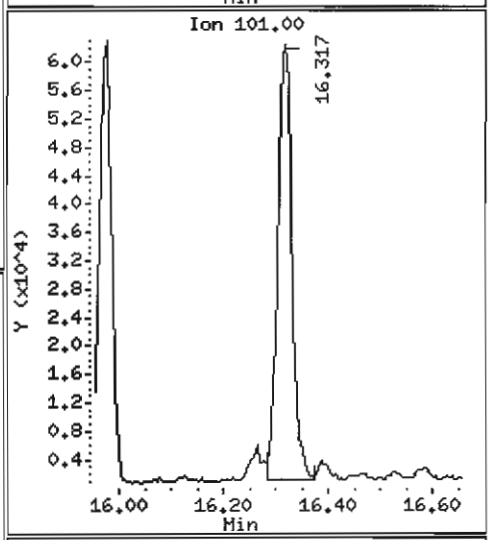


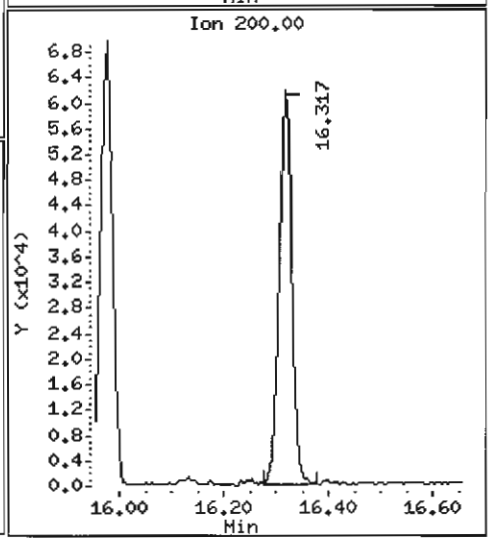












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

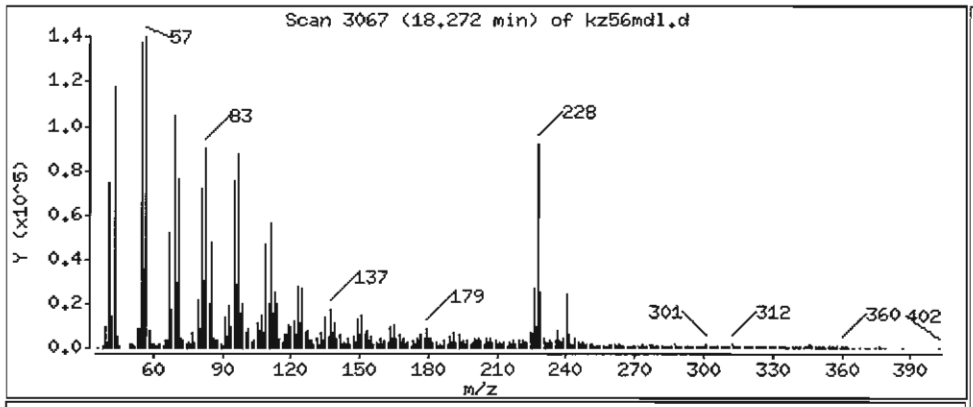
Operator: LJR/VTS

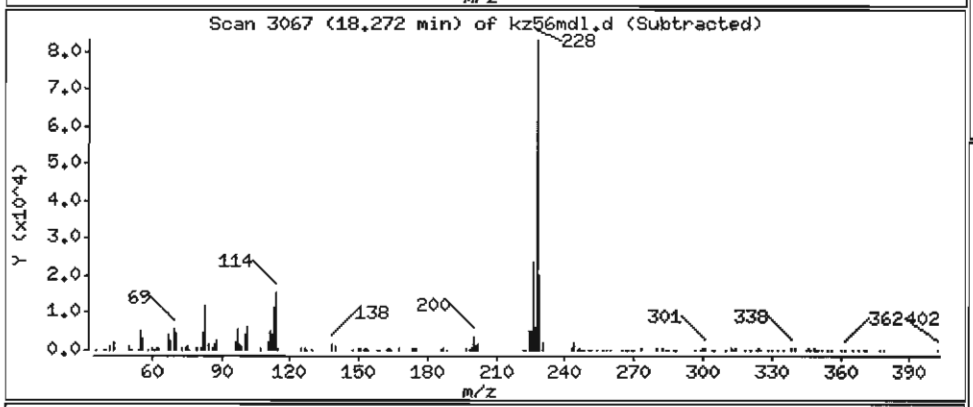
Column phase: ZB-5

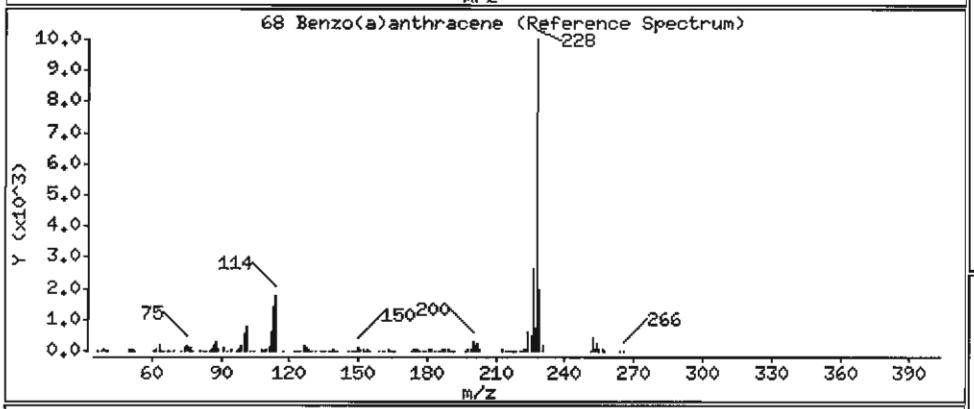
Column diameter: 0.32

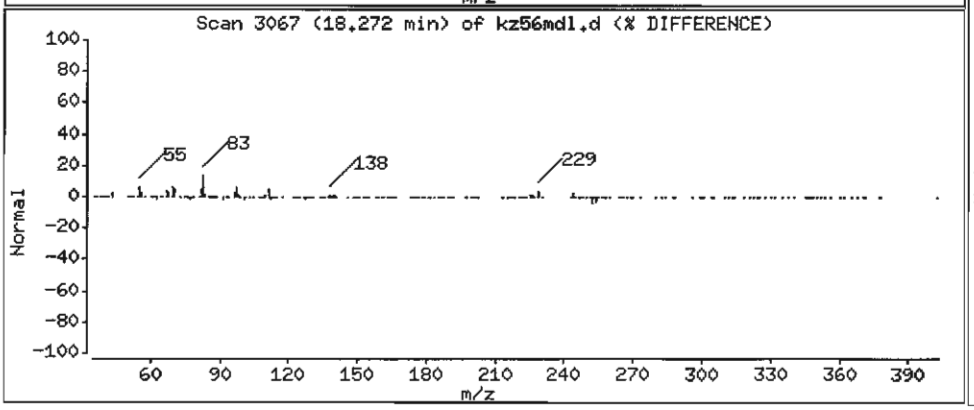
68 Benzo(a)anthracene

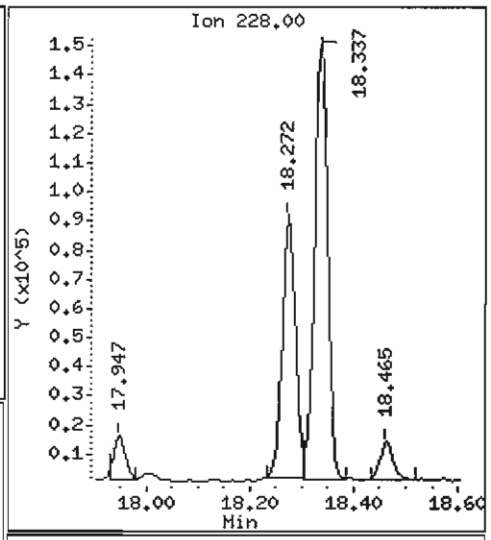
Concentration: 861.7 ug/kg

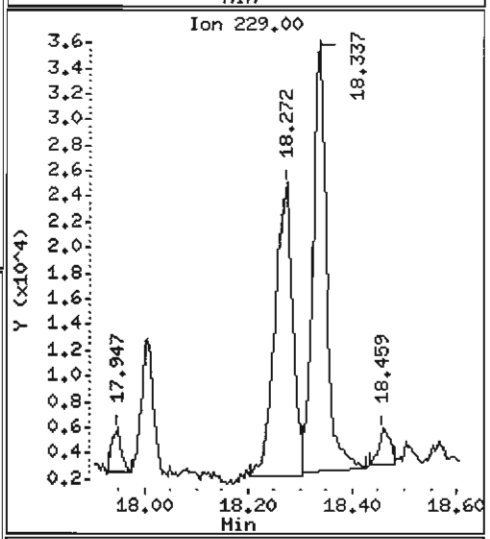


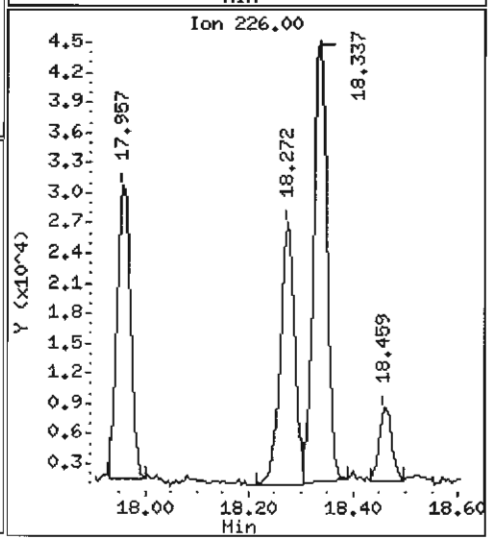












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

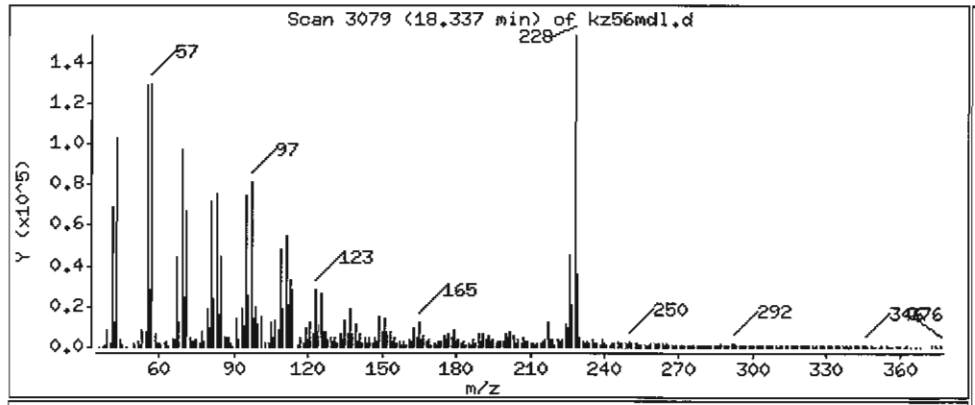
Operator: LJR/VTS

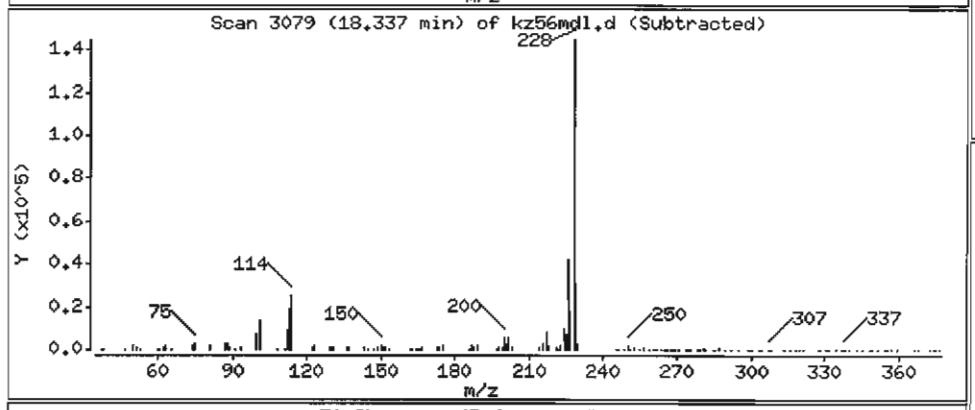
Column phase: ZB-5

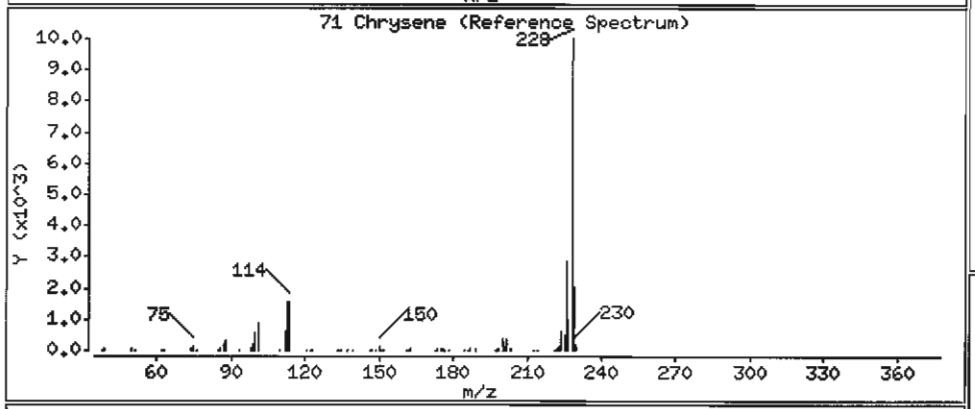
Column diameter: 0.32

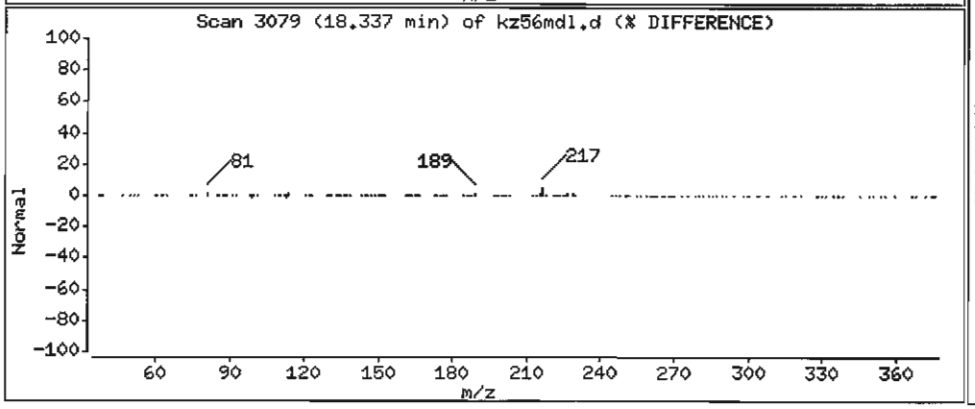
71 Chrysene

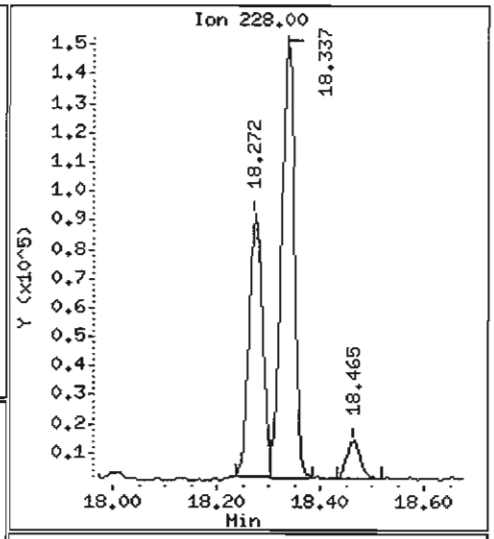
Concentration: 1378 ug/kg

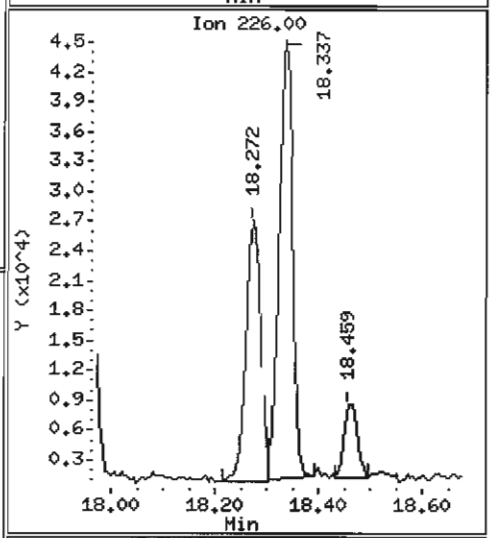


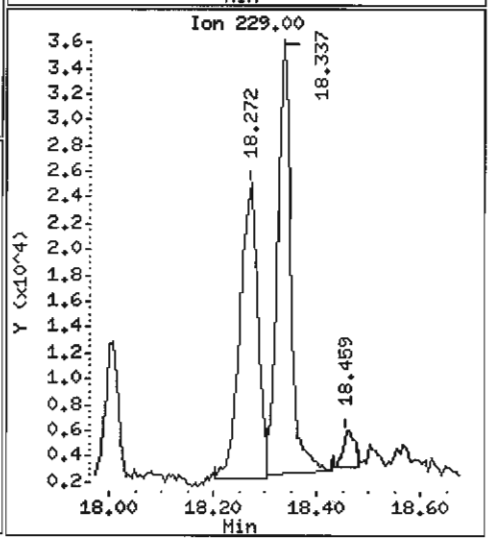












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

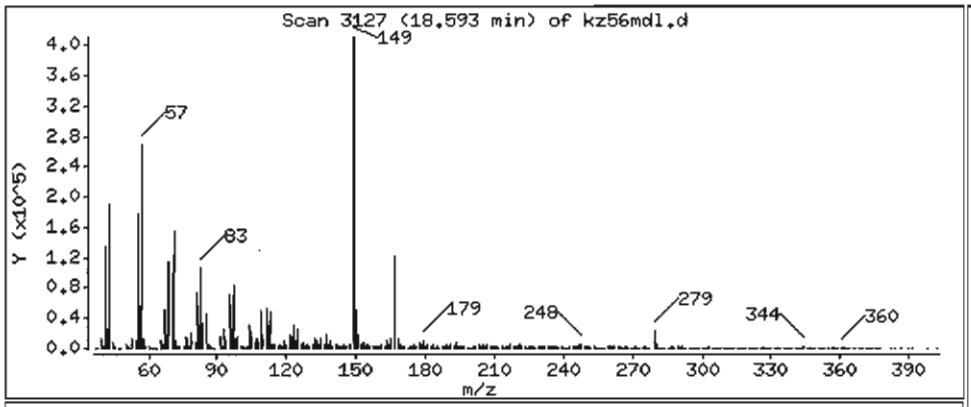
Operator: LJR/VTS

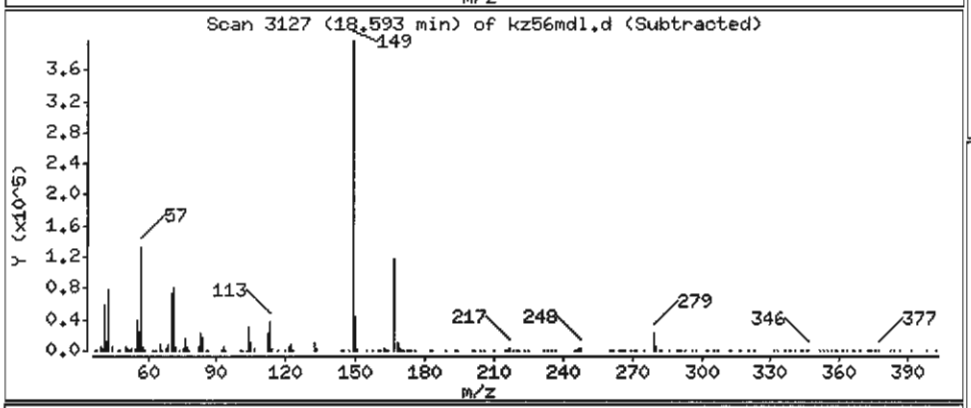
Column phase: ZB-5

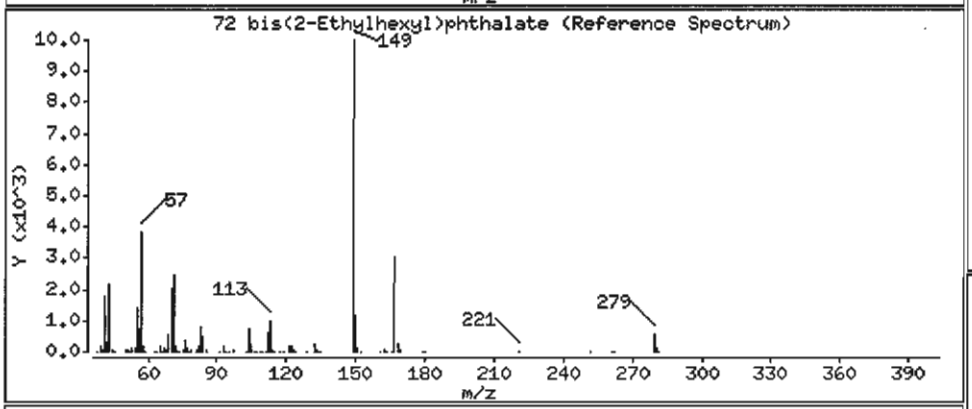
Column diameter: 0.32

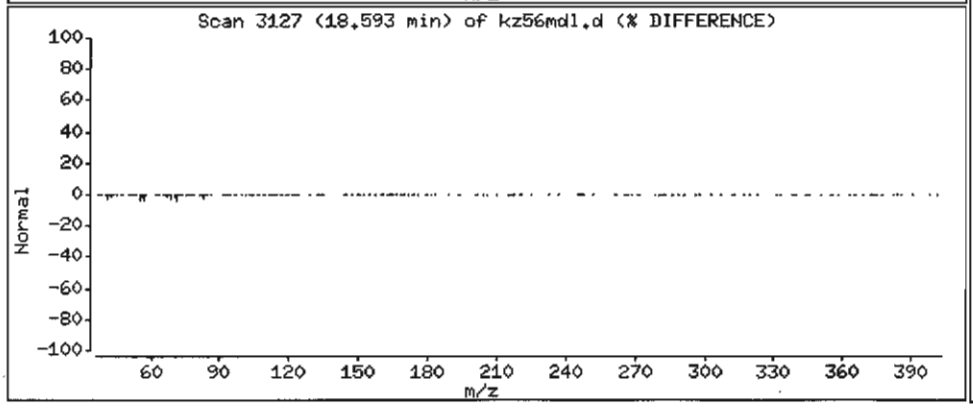
72 bis(2-Ethylhexyl)phthalate

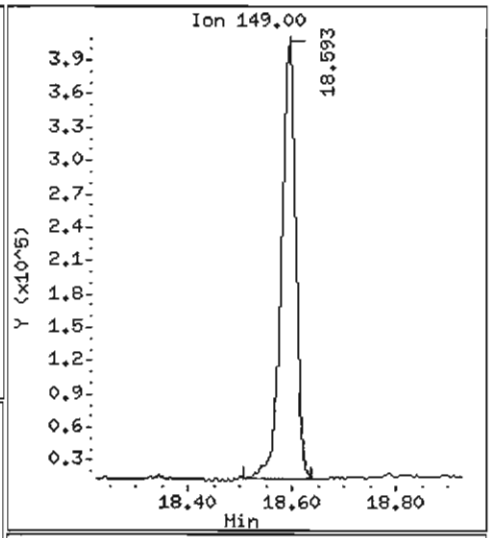
Concentration: 5628 ug/kg

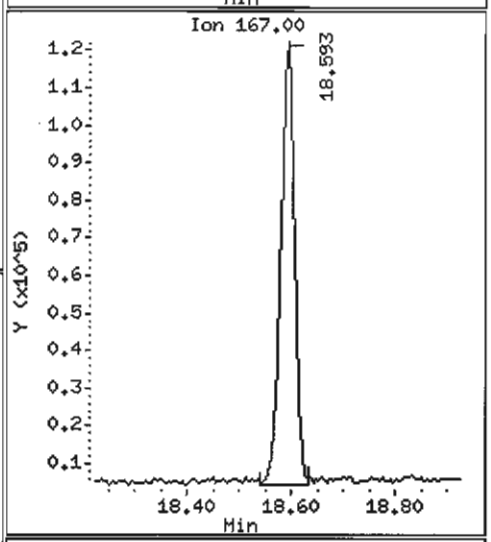


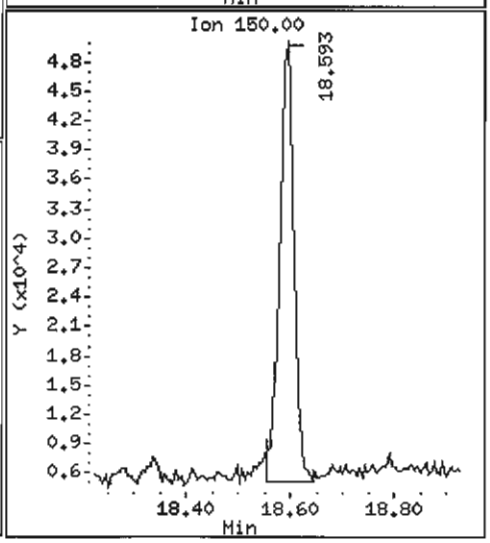












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

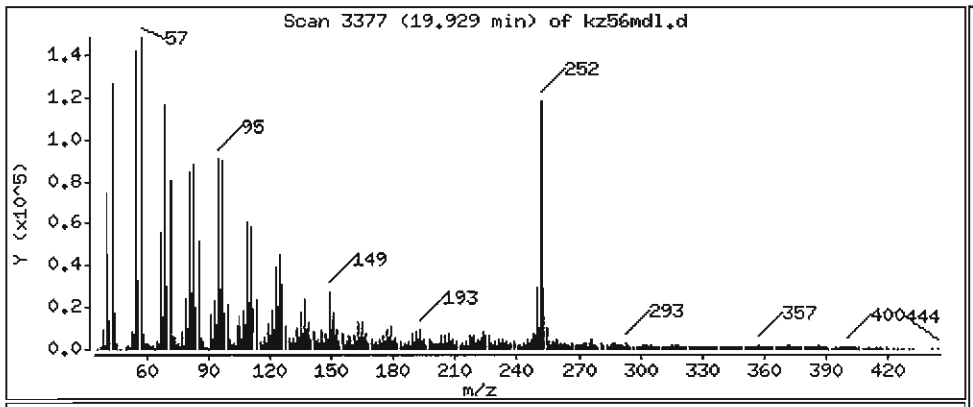
Operator: LJR/VTS

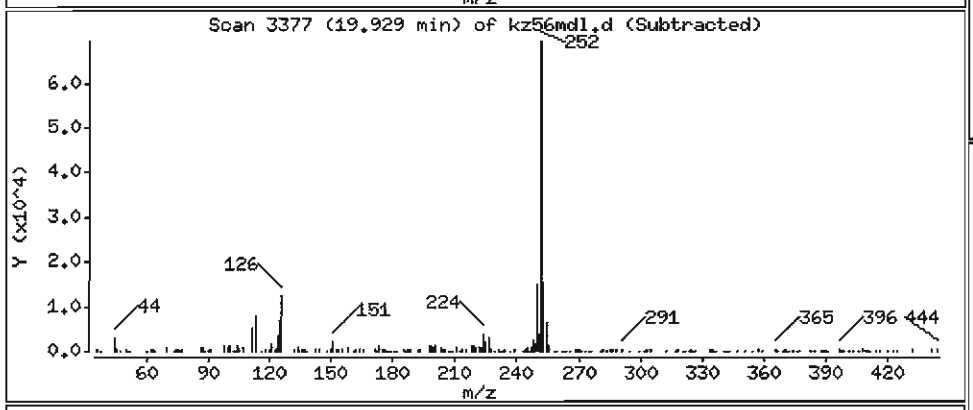
Column phase: ZB-5

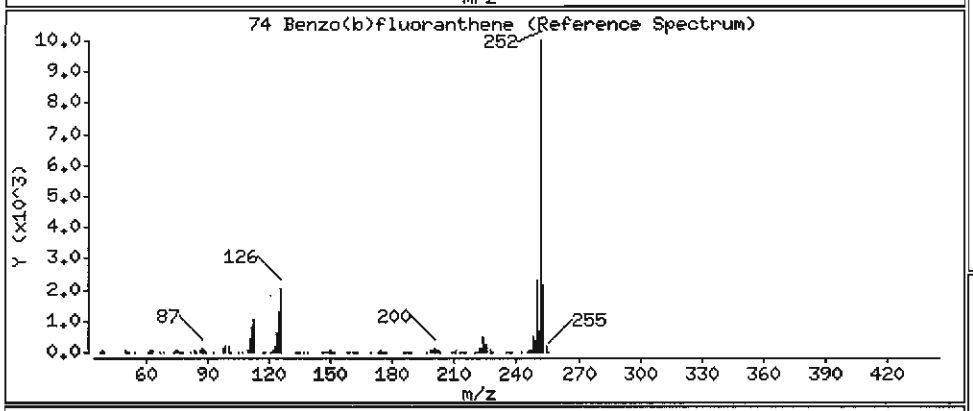
Column diameter: 0.32

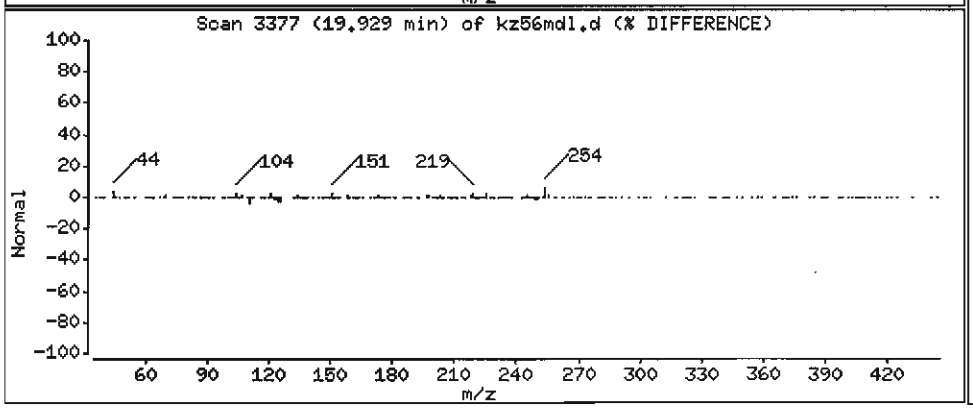
74 Benzo(b)fluoranthene

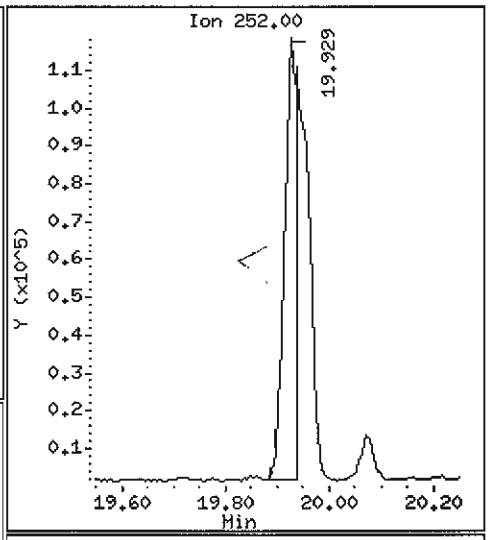
Concentration: 1763 ug/kg

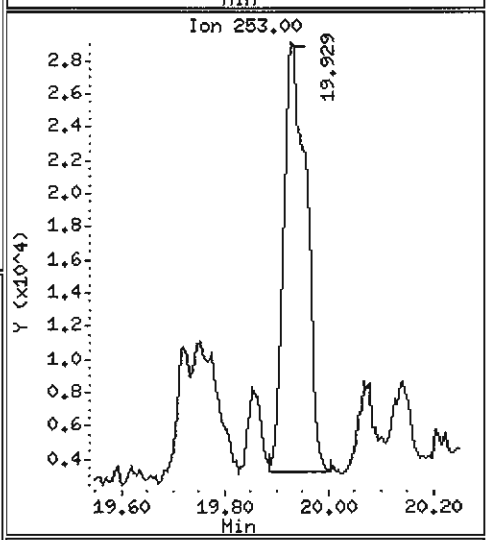


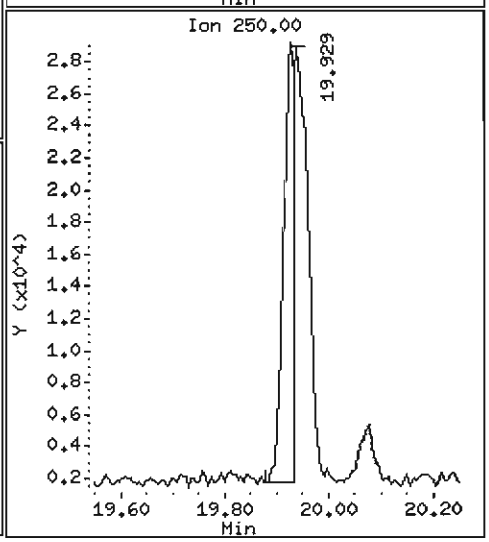












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

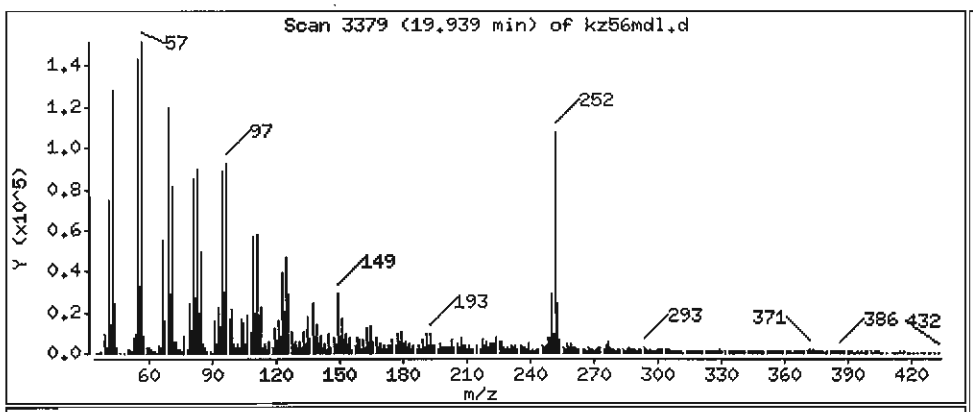
Operator: LJR/VTS

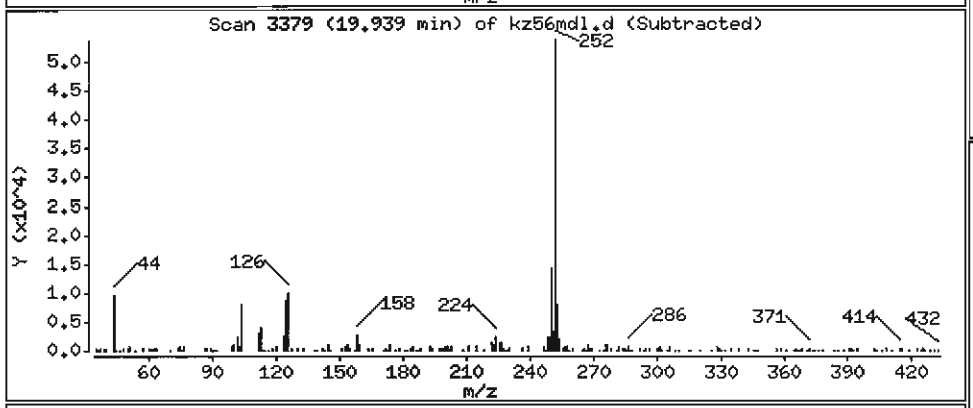
Column phase: ZB-5

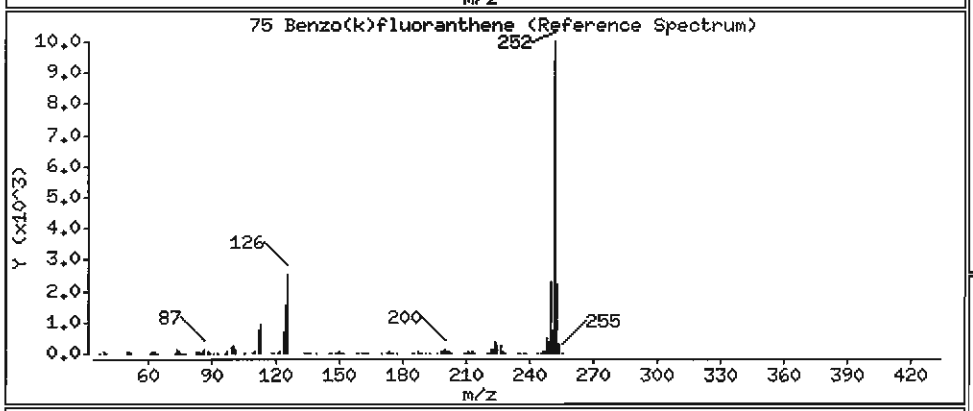
Column diameter: 0.32

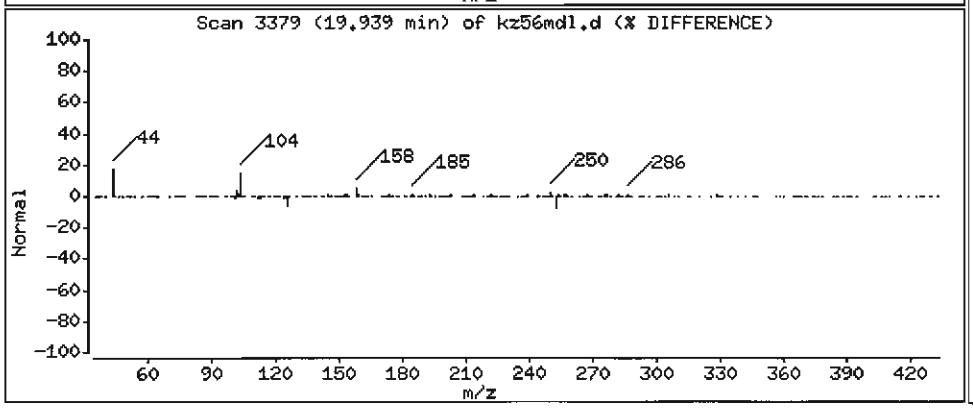
75 Benzo(k)fluoranthene

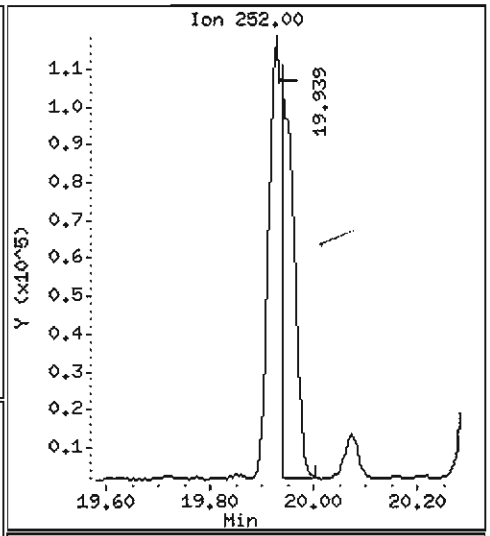
Concentration: 1626 ug/kg

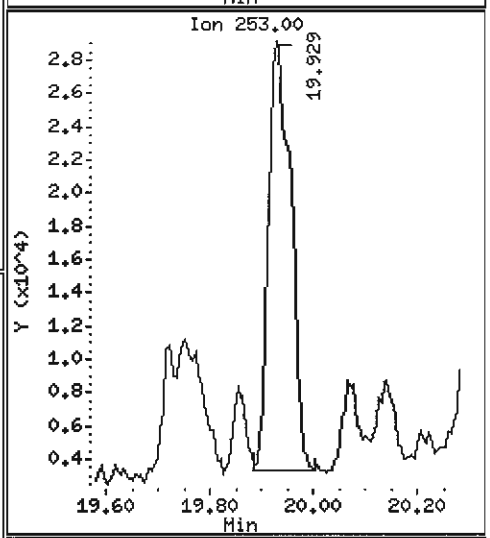


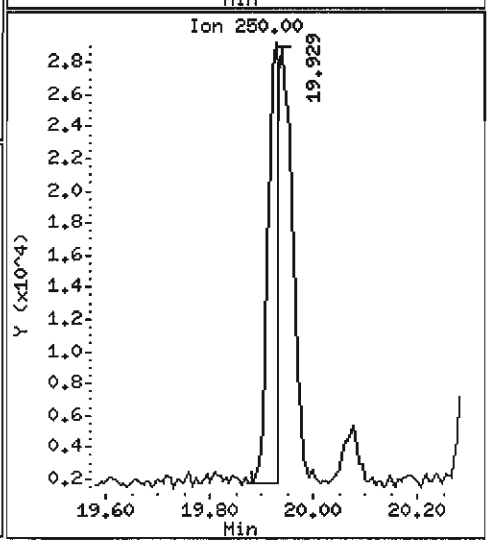












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

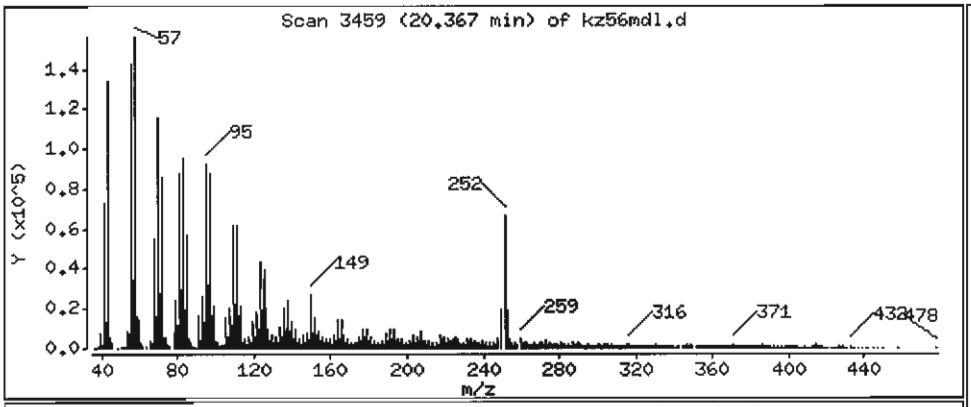
Operator: LJR/VTS

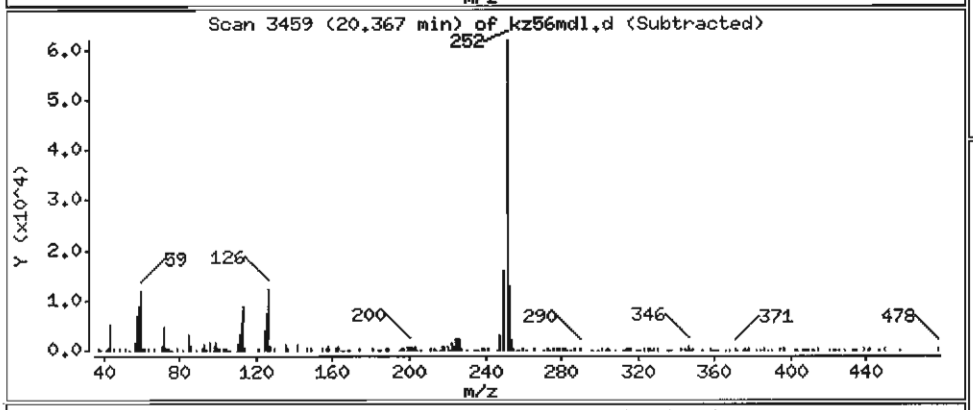
Column phase: ZB-5

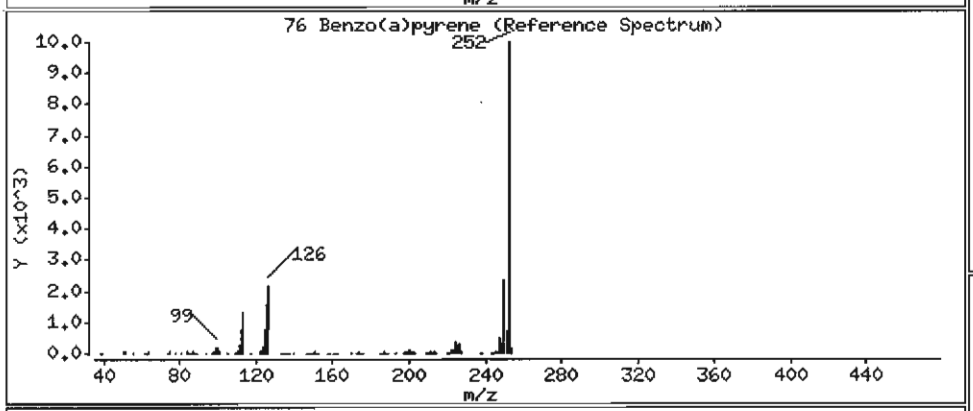
Column diameter: 0.32

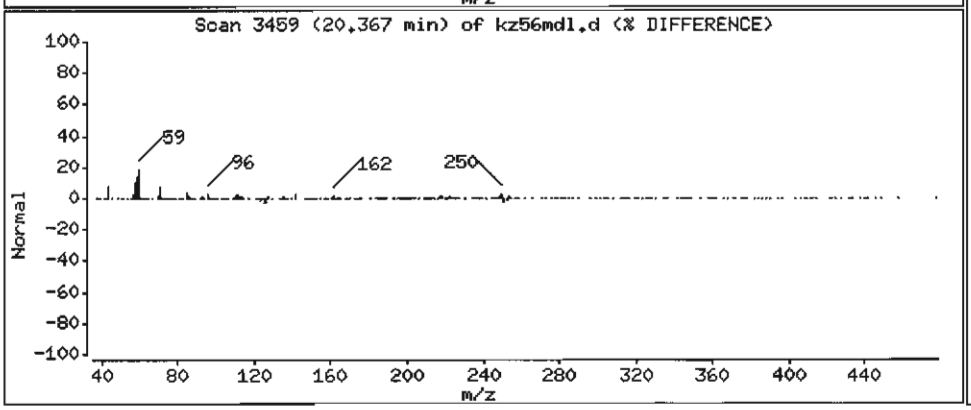
76 Benzo(a)pyrene

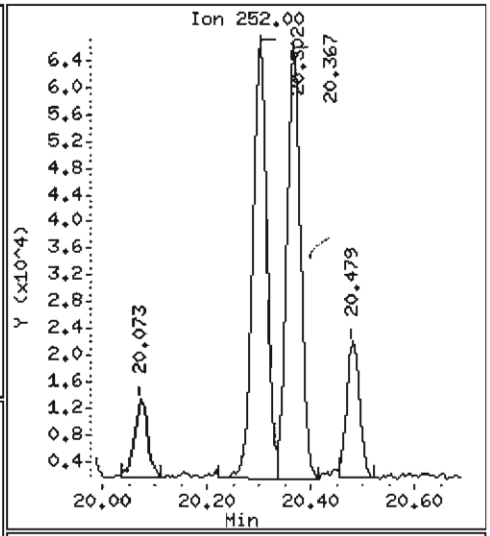
Concentration: 1043 ug/kg

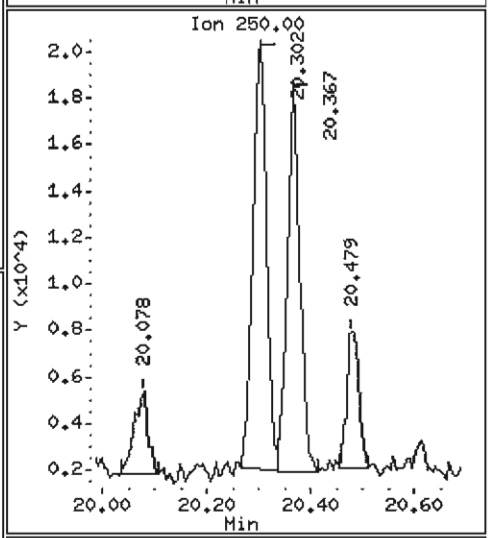


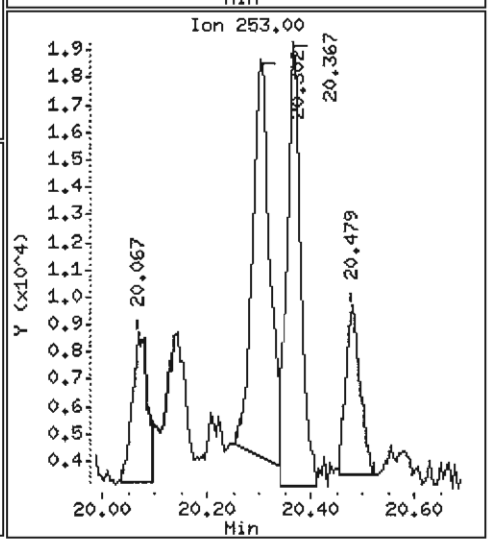












Data File: /chem1/nt6.i/20070529.b/kz56md1.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

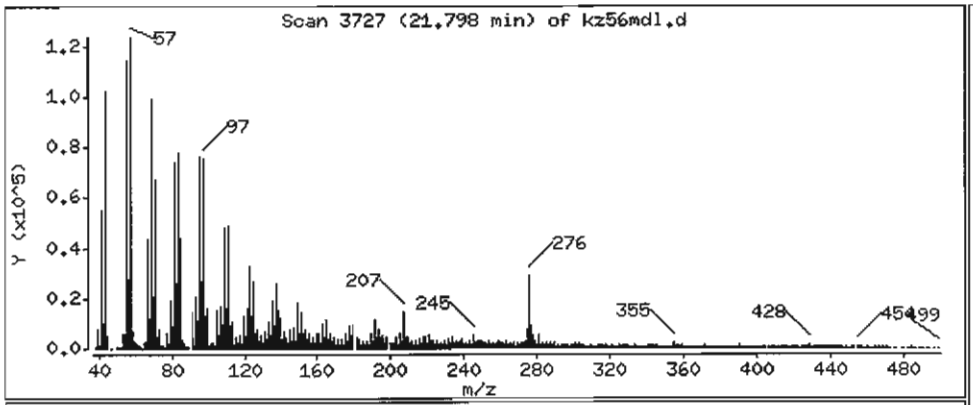
Operator: LJR/VTS

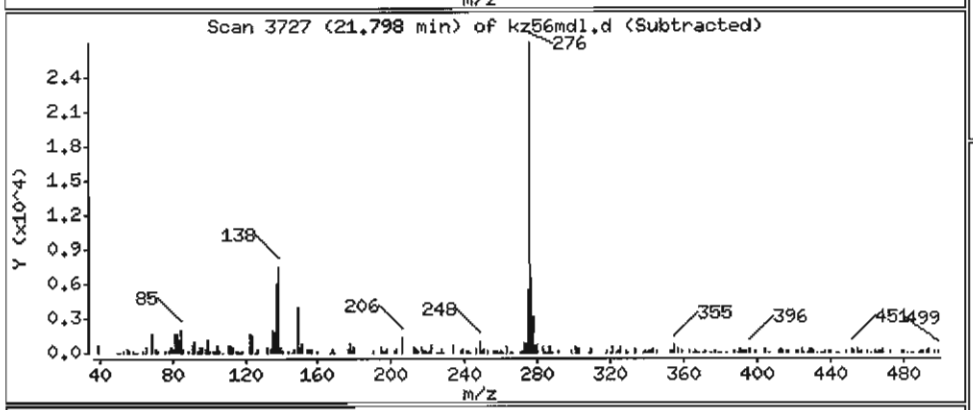
Column phase: ZB-5

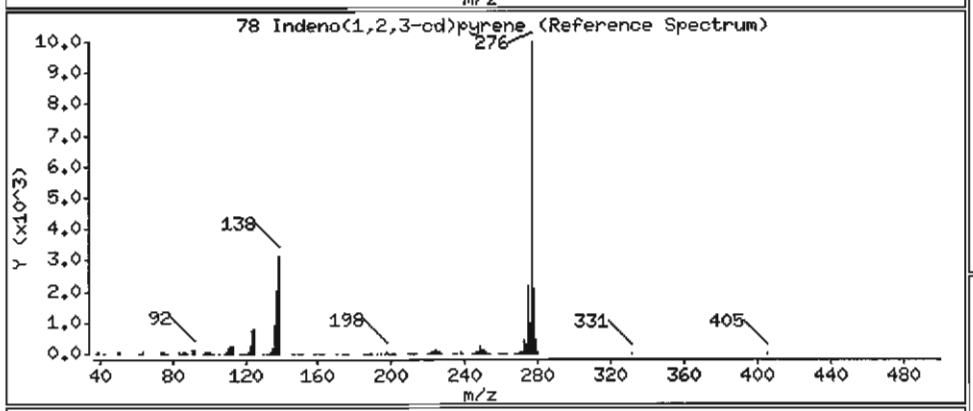
Column diameter: 0.32

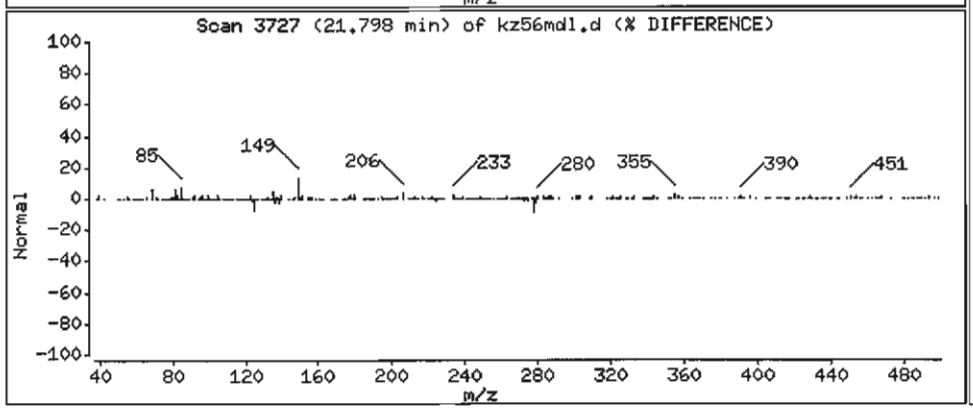
78 Indeno(1,2,3-cd)pyrene

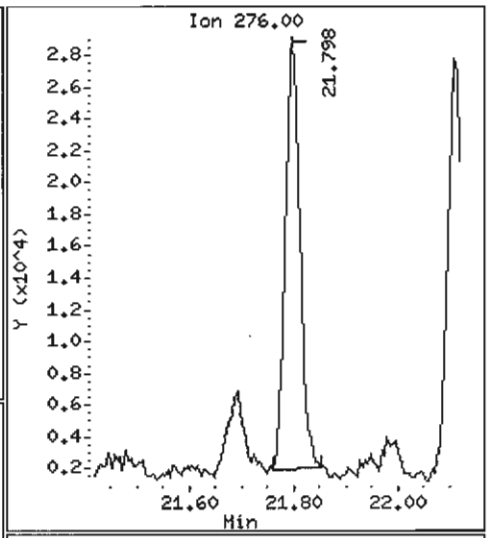
Concentration: 387.3 ug/kg

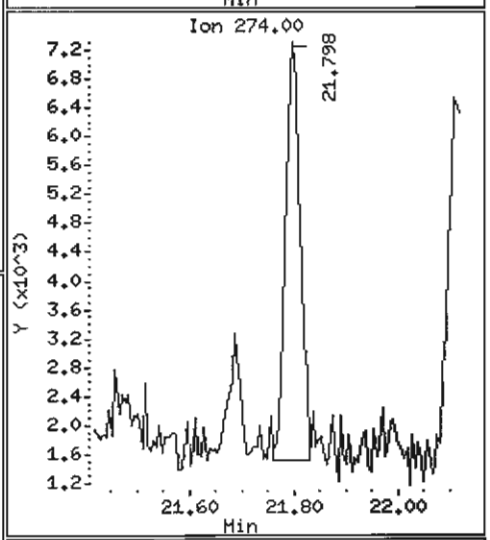


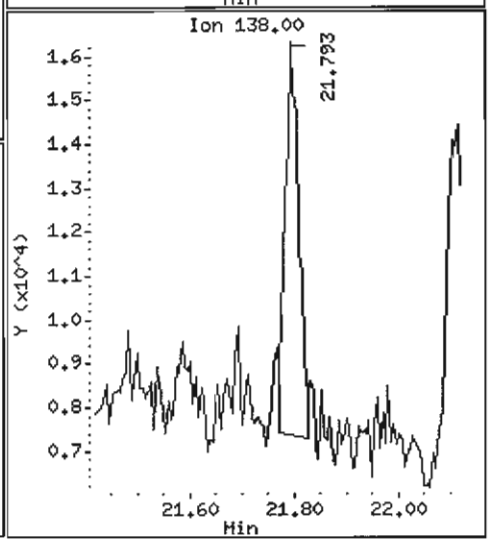












Data File: /chem1/nt6.i/20070529.b/kz56mdl.d

Date : 29-MAY-2007 17:38

Client ID: Y3-RC06-S

Instrument: nt6.i

Sample Info: KZ56M,5

Volume Injected (uL): 1.0

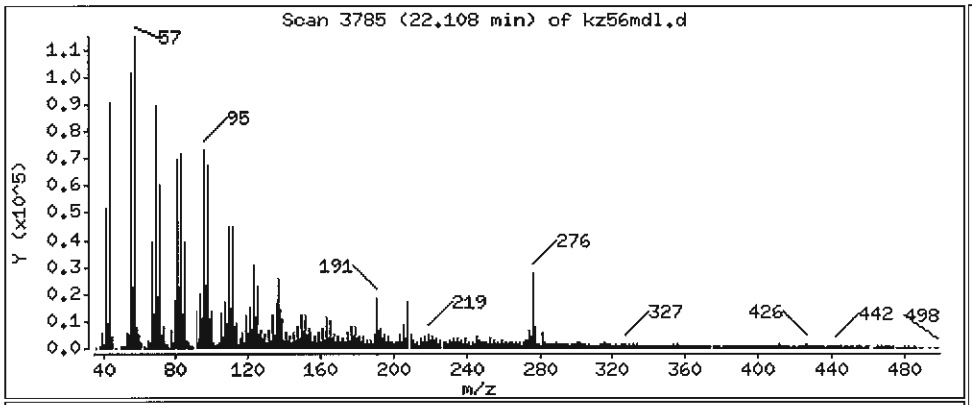
Operator: LJR/VTS

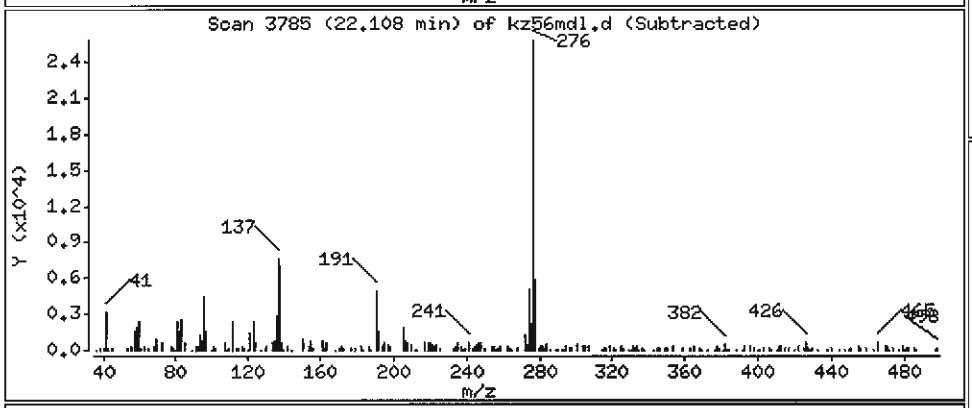
Column phase: ZB-5

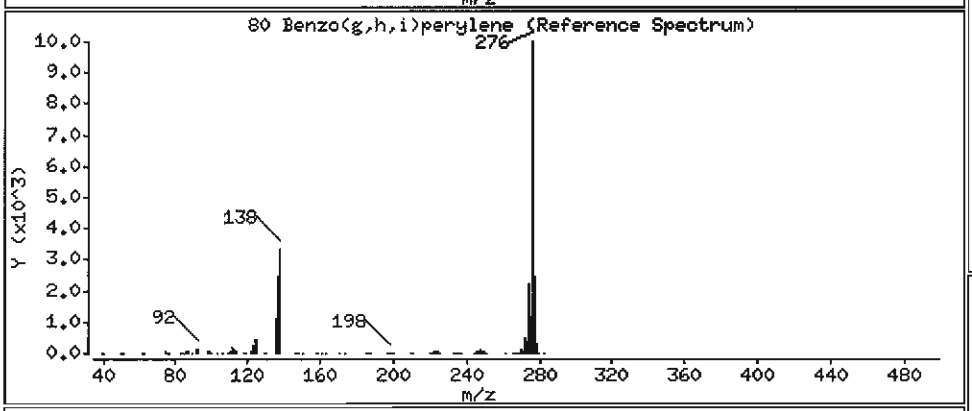
Column diameter: 0.32

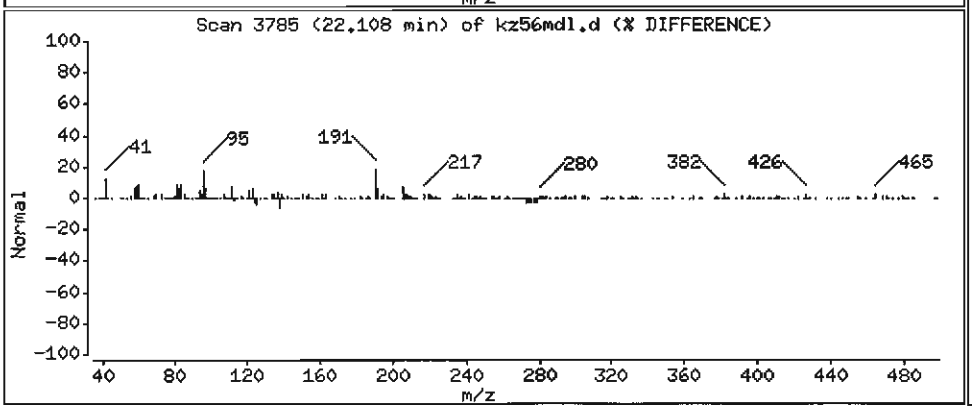
80 Benzo(g,h,i)perylene

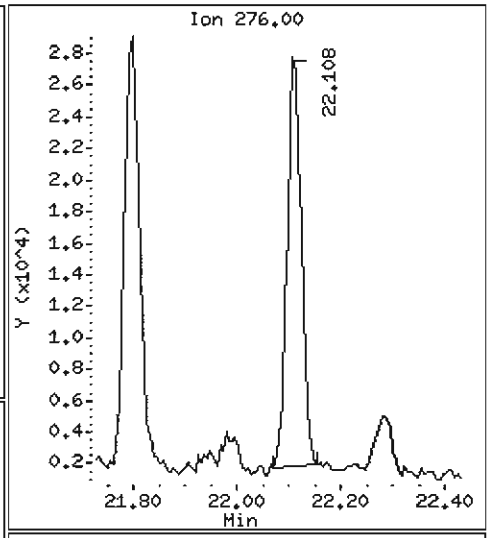
Concentration: 397.2 ug/kg

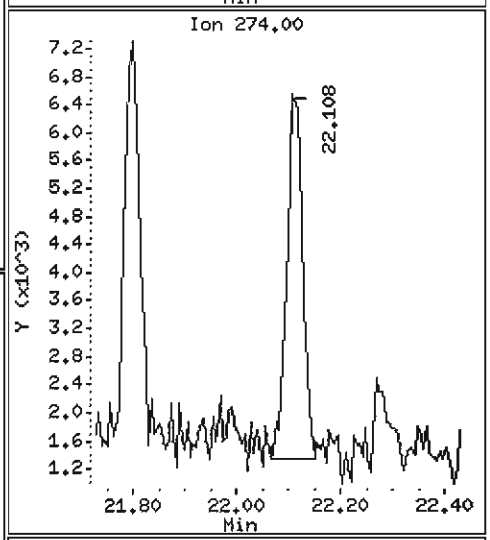


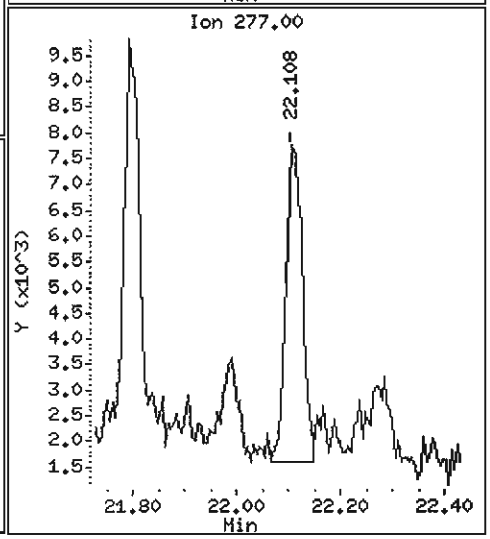












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC04-S
SAMPLE

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 14:53
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 52.8%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	36	44
91-57-6	2-Methylnaphthalene	36	< 36 U
208-96-8	Acenaphthylene	36	< 36 U
83-32-9	Acenaphthene	36	19 J
132-64-9	Dibenzofuran	36	< 36 U
86-73-7	Fluorene	36	19 J
85-01-8	Phenanthrene	36	260
120-12-7	Anthracene	36	58
206-44-0	Fluoranthene	36	720
129-00-0	Pyrene	36	610
56-55-3	Benzo(a)anthracene	36	240
117-81-7	bis(2-Ethylhexyl)phthalate	36	1,400 E
218-01-9	Chrysene	36	370
205-99-2	Benzo(b)fluoranthene	36	380
207-08-9	Benzo(k)fluoranthene	36	520
50-32-8	Benzo(a)pyrene	36	290
193-39-5	Indeno(1,2,3-cd)pyrene	36	100
53-70-3	Dibenz(a,h)anthracene	36	28 J
191-24-2	Benzo(g,h,i)perylene	36	98

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	16.4%	2-Fluorobiphenyl	15.6%
d14-p-Terphenyl	16.9%	d4-1,2-Dichlorobenzene	15.1%
d5-Phenol	15.7%	2-Fluorophenol	14.0%
2,4,6-Tribromophenol	17.2%	d4-2-Chlorophenol	15.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56n.d
Lab Smp Id: KZ56N
Client Smp ID: Y3-RC04-S
Inj Date : 29-MAY-2007 14:53
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : KZ56N
Misc Info : 07-9560
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/31/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	59.10000	Weight of sample extracted (g)
M	52.80000	% Moisture

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.927	4.903	(0.724)	94289	5.26234	188.6
$ 2 Phenol-d5	99	6.460	6.447	(0.949)	123384	5.86888	210.4(R)
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.530	6.521	(0.959)	84145	5.78849	207.5(R)
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.808	6.805	(1.000)	197078	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.101	7.093	(1.043)	33485	3.76698	135.0(R)
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.726	7.729	(0.876)	68173	4.09445	146.8(R)
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.586	8.701	(0.973)	6422	0.67142 LOL	24.07(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.822	8.819	(1.000)	699733	20.0000	
	28 Naphthalene	128	8.854	8.851	(1.004)	51567	1.24417	44.60
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.622	10.619	(0.911)	93285	3.90832	140.1(R)
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.658	11.655	(1.000)	353654	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.706	11.703	(1.004)	12099	0.54214 LOL	19.44
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.524	12.515	(1.074)	12794	0.53972 LOL	19.35(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.946	12.937	(1.110)	23178	6.43746	230.8(R)
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.009	14.001	(1.000)	504341	20.0000	
	60 Phenanthrene	178	14.046	14.038	(1.003)	248827	7.39281	265.0
	61 Anthracene	178	14.116	14.107	(1.008)	55838	1.60559	57.56
	62 Carbazole	167	14.420	14.412	(1.029)	52631	1.75871	63.05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.179	15.165	(1.083)	23556	0.63826 LOL	22.88(M)
64 Fluoranthene	202	15.980	15.956	(1.141)	640940	20.0708	719.5
65 Pyrene	202	16.322	16.303	(0.892)	632725	16.9967	609.3
$ 66 Terphenyl-d14	244	16.664	16.650	(0.910)	99530	4.22282	151.4(R)
67 Butylbenzylphthalate	149	17.572	17.558	(0.960)	37057	2.11717	75.90
68 Benzo(a)anthracene	228	18.282	18.253	(0.999)	226348	6.75395	242.1
* 69 Chrysene-d12	240	18.304	18.280	(1.000)	448647	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.341	18.322	(1.002)	351249	10.3607	371.4
72 bis(2-Ethylhexyl)phthalate	149	18.598	18.573	(0.952)	929622	40.4147 E	1449
* 134 Di-n-octylphthalate-d4	153	19.533	19.503	(1.000)	671567	20.0000	
73 Di-n-octylphthalate	149	19.549	19.514	(1.001)	54372	1.36286	48.86(M)
74 Benzo(b)fluoranthene	252	19.939	19.898	(0.975)	233628	10.6945	383.4(M)
75 Benzo(k)fluoranthene	252	19.949	19.930	(0.975)	307109	14.6340	524.6(M)
76 Benzo(a)pyrene	252	20.377	20.336	(0.996)	177087	8.09877	290.3
* 77 Perylene-d12	264	20.457	20.416	(1.000)	336929	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.808	21.768	(1.066)	73308	2.83576	101.7(M)
79 Dibenzo(a,h)anthracene	278	21.830	21.789	(1.067)	16522	0.77169 LDL	27.66(MH)
80 Benzo(g,h,i)perylene	276	22.129	22.078	(1.082)	64653	2.73087	97.87(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56n.d
Lab Smp Id: KZ56N
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9560

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC04-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	197078	-9.47
27 Naphthalene-d8	775413	387706	1550826	699733	-9.76
42 Acenaphthene-d10	371068	185534	742136	353654	-4.69
59 Phenanthrene-d10	554165	277082	1108330	504341	-8.99
69 Chrysene-d12	436021	218010	872042	448647	2.90
134 Di-n-octylphthala	773344	386672	1546688	671567	-13.16
77 Perylene-d12	622369	311184	1244738	336929	-45.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.04
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.03
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.02
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.06
69 Chrysene-d12	18.28	17.78	18.78	18.30	0.13
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.15
77 Perylene-d12	20.42	19.92	20.92	20.46	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

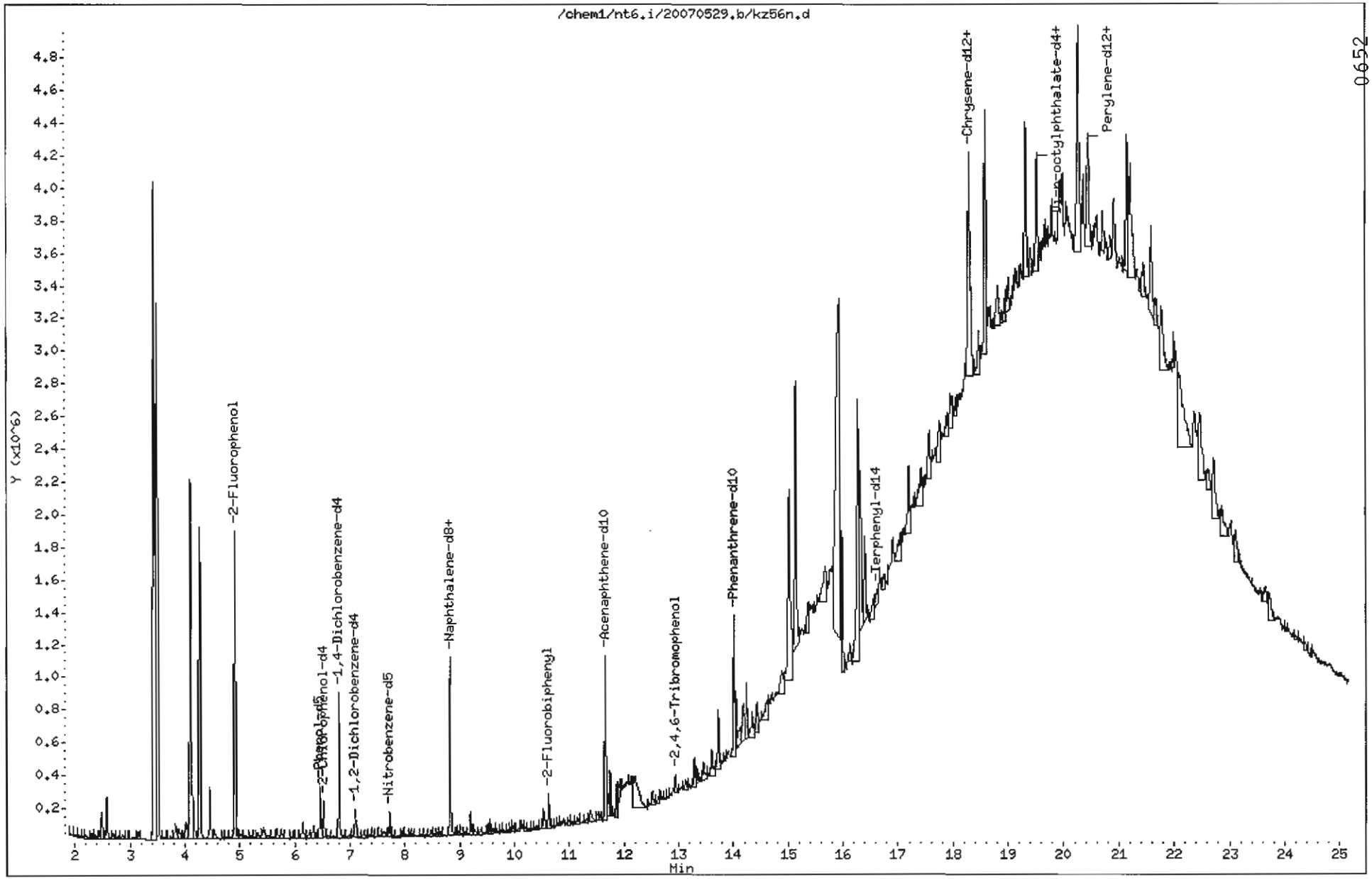
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56N
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9560

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC04-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1344	188.6	14.03	11-84
$ 2 Phenol-d5	1344	210.4	15.66*	25-86
$ 5 2-Chlorophenol-d4	1344	207.5	15.44*	23-91
$ 10 1,2-Dichlorobenzen	896.2	135.0	15.07*	24-90
$ 18 Nitrobenzene-d5	896.2	146.8	16.38*	26-88
$ 36 2-Fluorobiphenyl	896.2	140.1	15.63*	34-91
$ 55 2,4,6-Tribromophen	1344	230.8	17.17*	25-107
$ 66 Terphenyl-d14	896.2	151.4	16.89*	22-100

Data File: /chem1/nt6.i/20070529.b/kz56n.d
Date : 29-MAY-2007 14:53
Client ID: Y3-RC04-S
Sample Info: KZ56N
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0652

Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

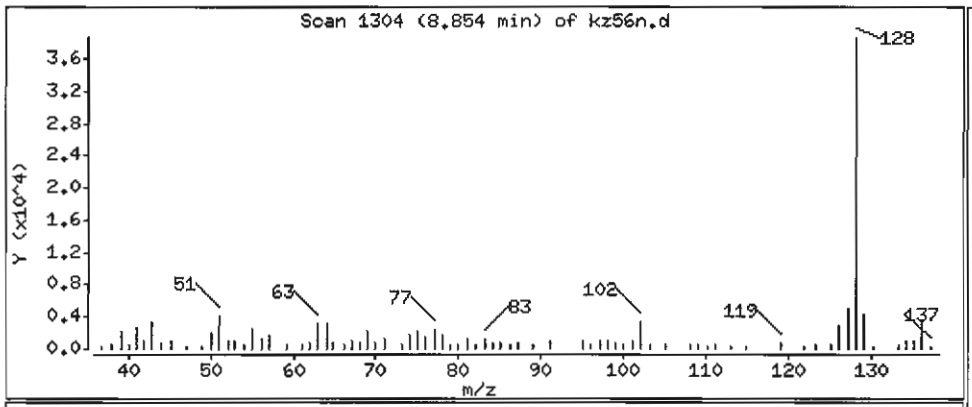
Operator: LJR/VTS

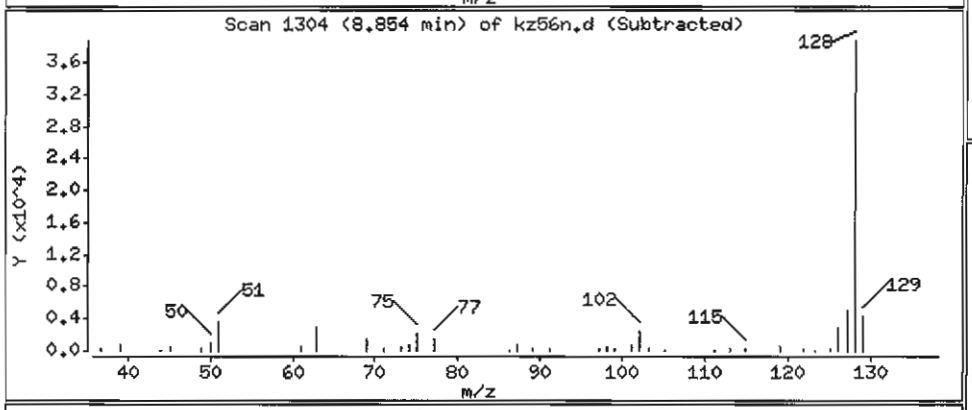
Column phase: ZB-5

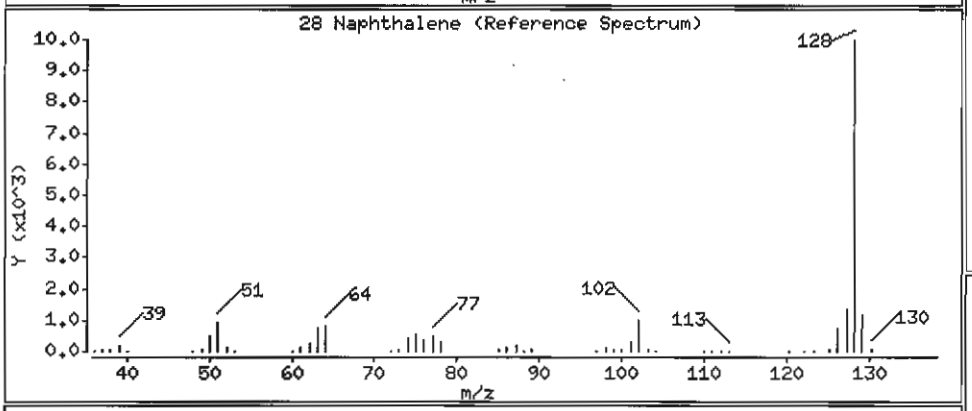
Column diameter: 0.32

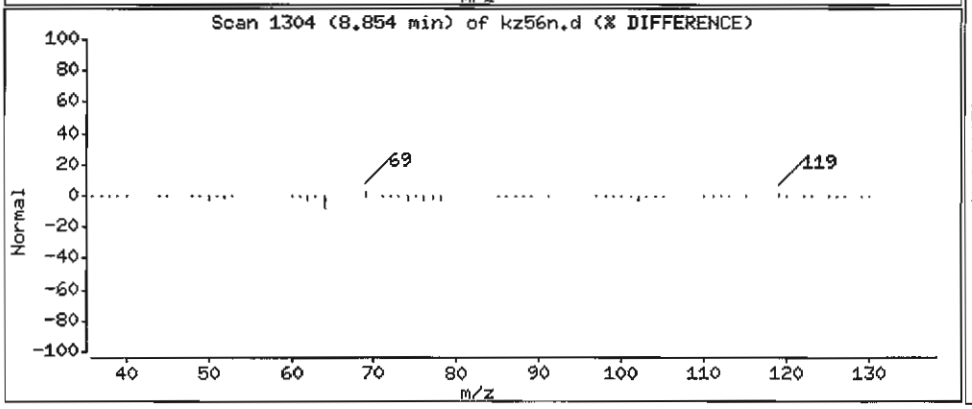
28 Naphthalene

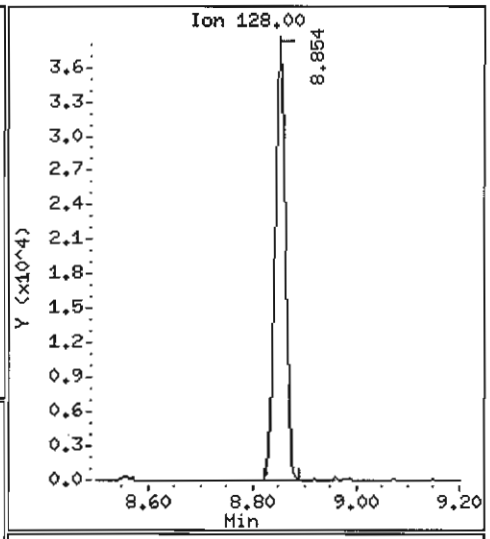
Concentration: 44.60 ug/kg

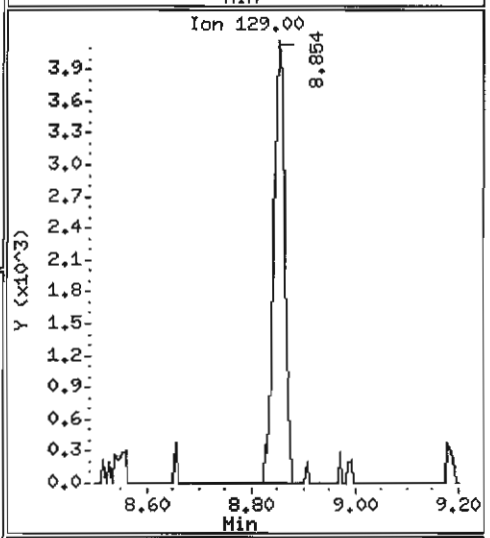


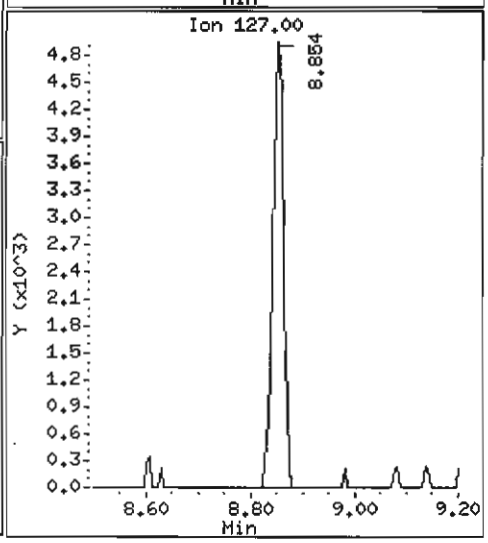












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

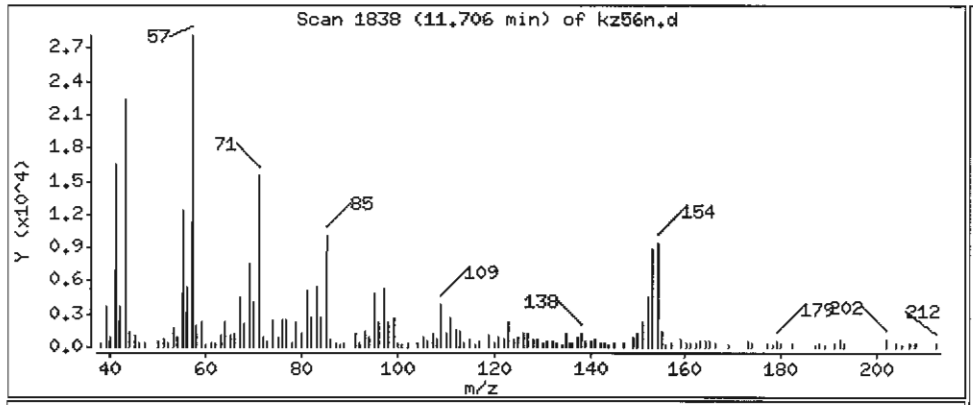
Operator: LJR/VTS

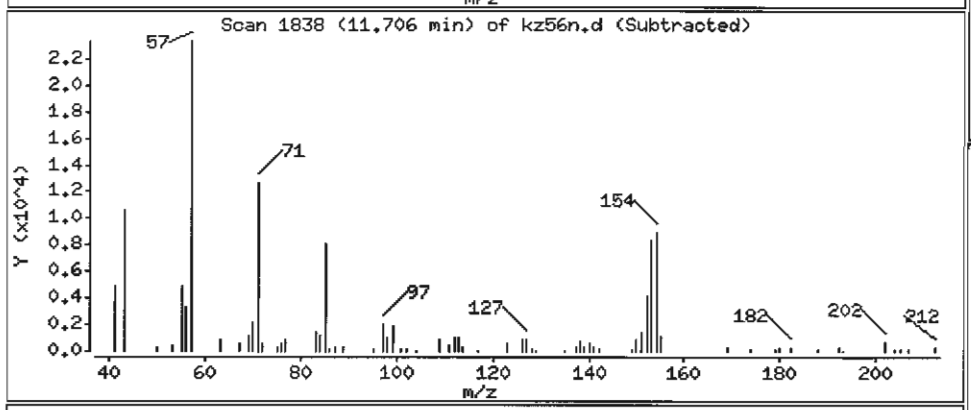
Column phase: ZB-5

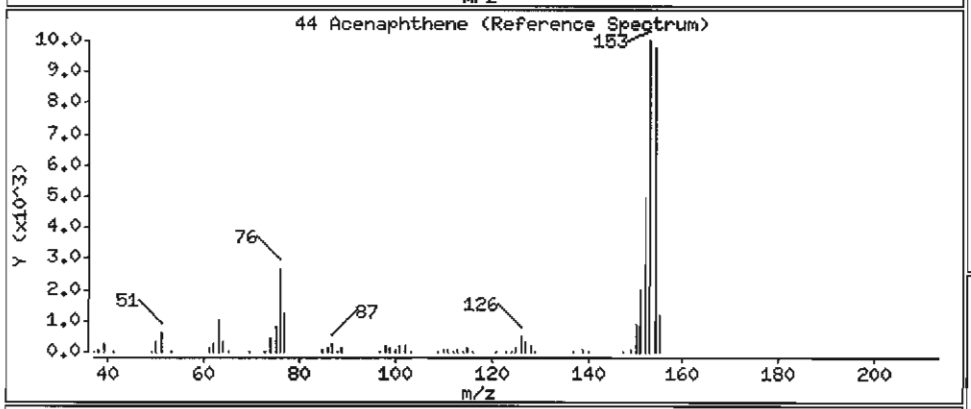
Column diameter: 0.32

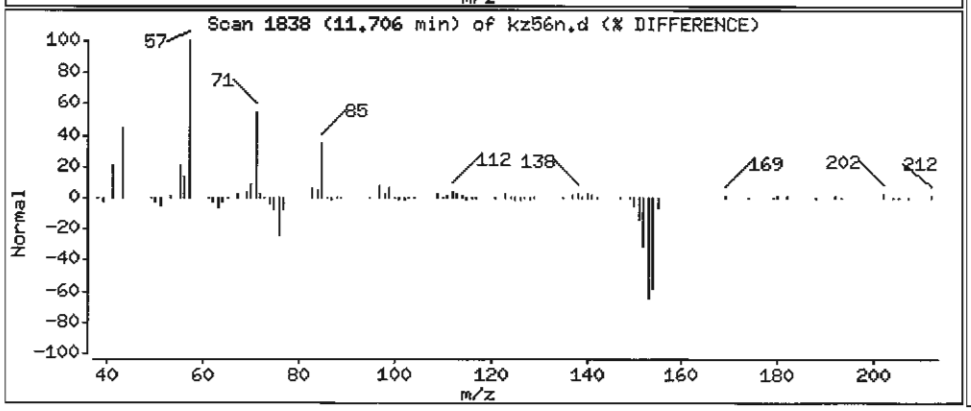
44 Acenaphthene

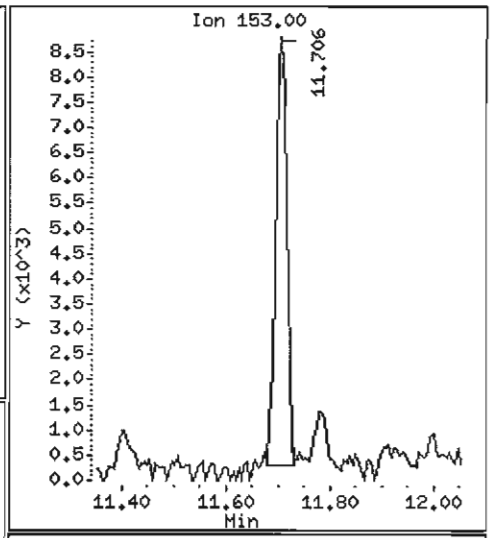
Concentration: 19.44 ug/kg

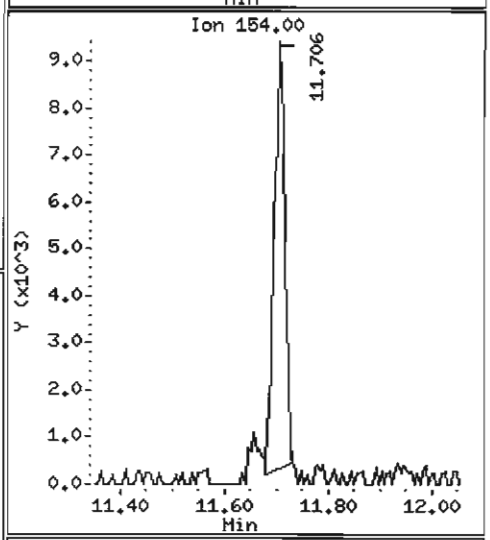


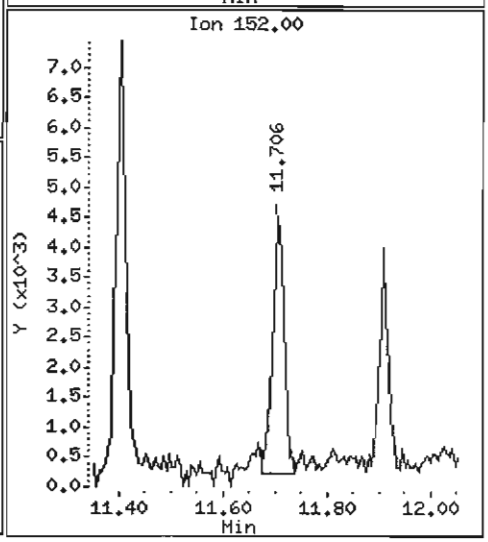












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

Operator: LJR/VTS

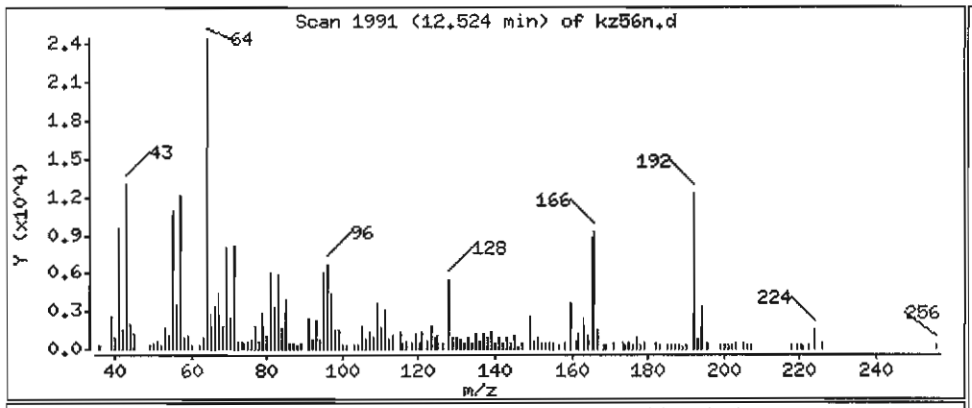
Column phase: ZB-5

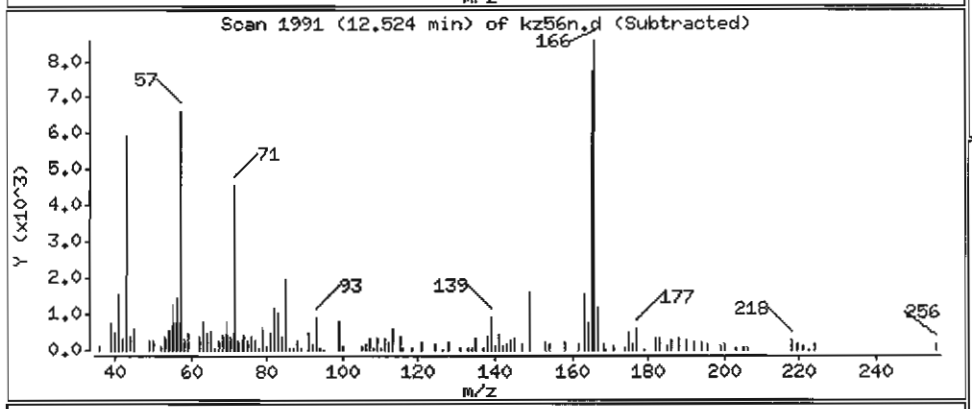
Column diameter: 0.32

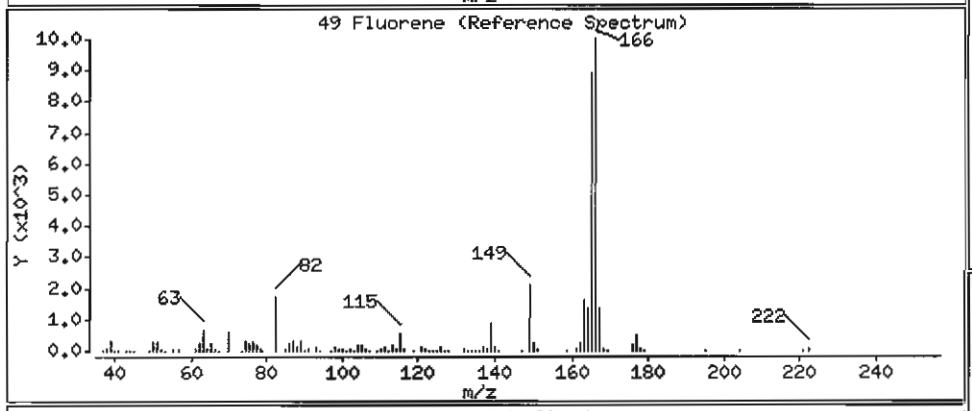
JCR

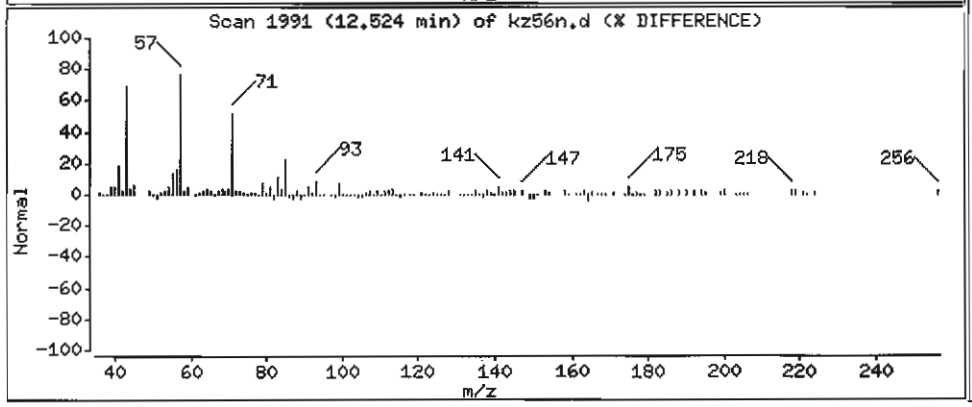
49 Fluorene

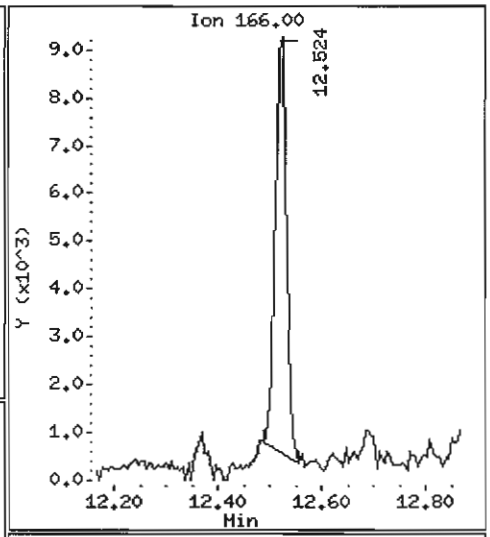
Concentration: 19.35 ug/kg

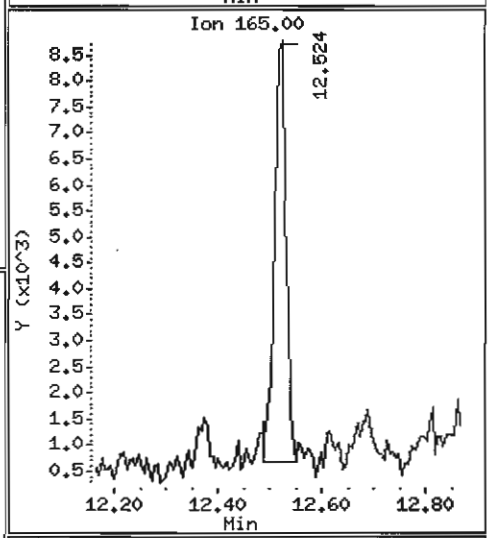


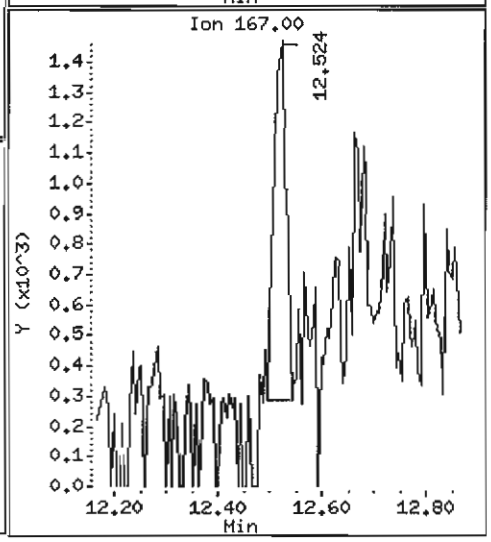












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

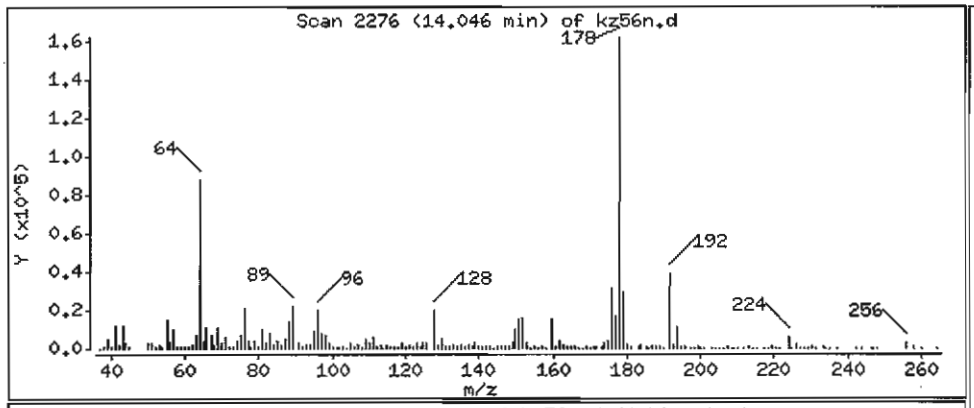
Operator: LJR/VTS

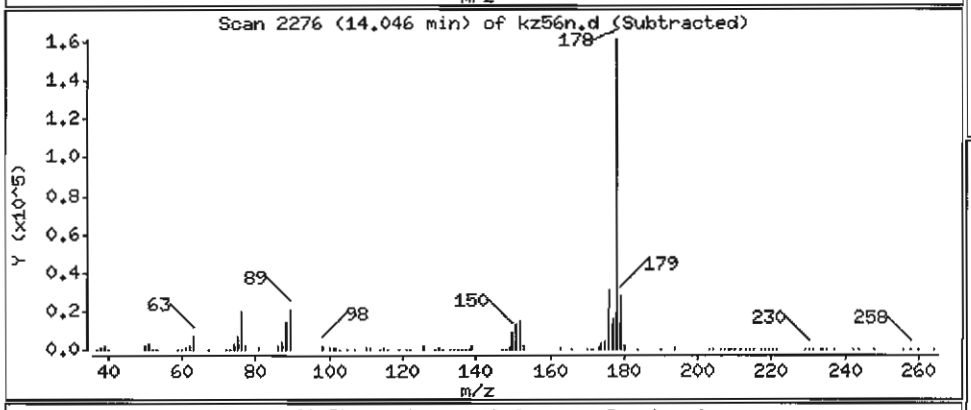
Column phase: ZB-5

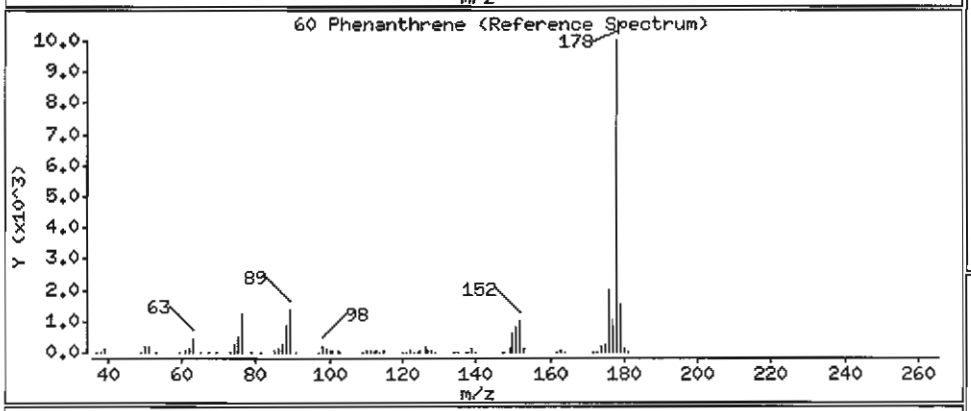
Column diameter: 0.32

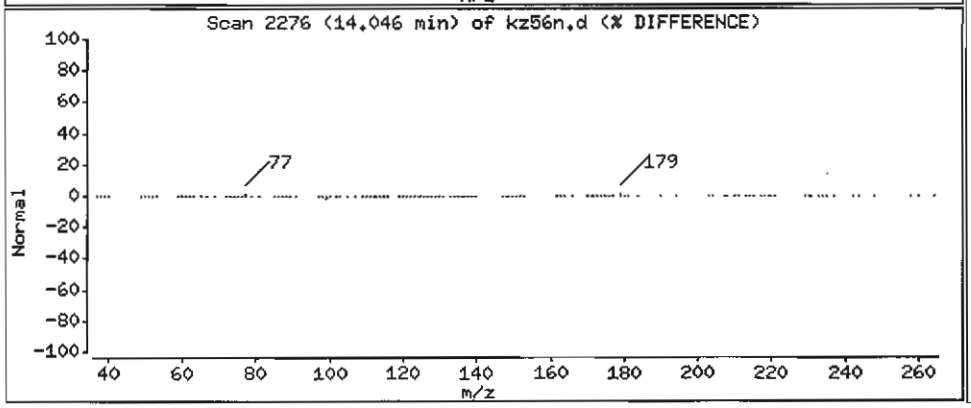
60 Phenanthrene

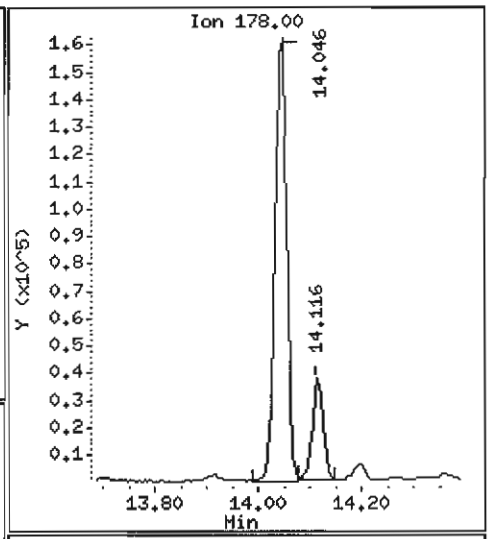
Concentration: 265.0 ug/kg

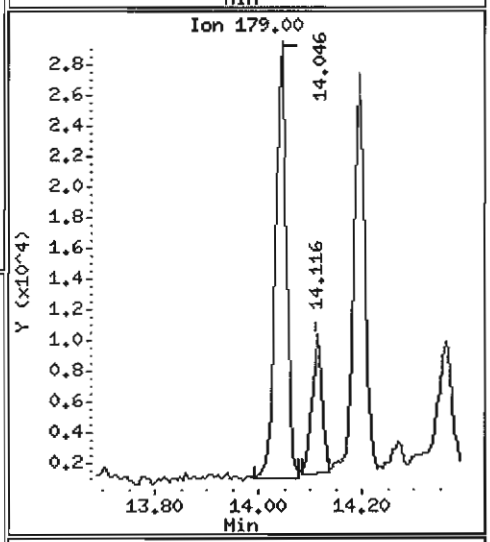


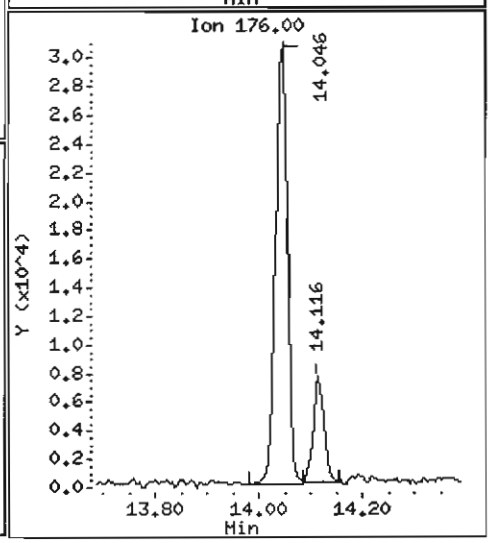












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

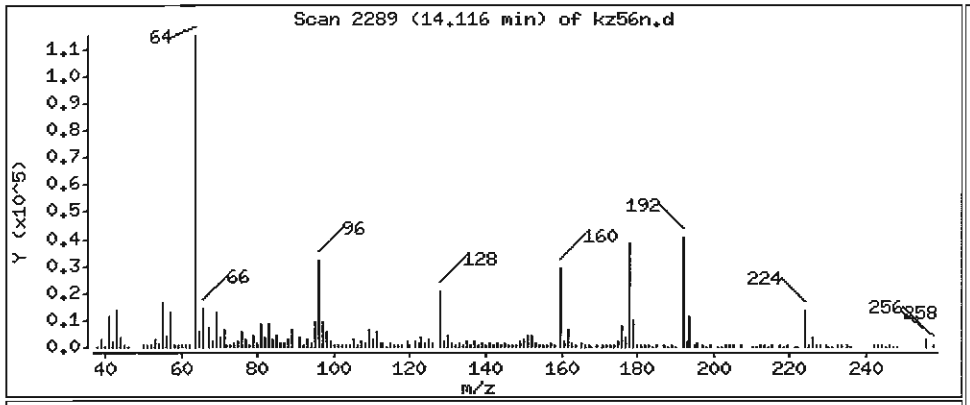
Operator: LJR/VTS

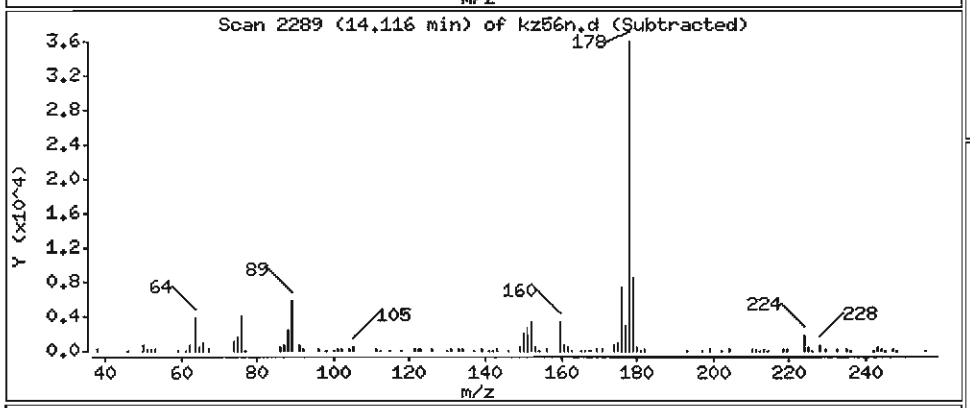
Column phase: ZB-5

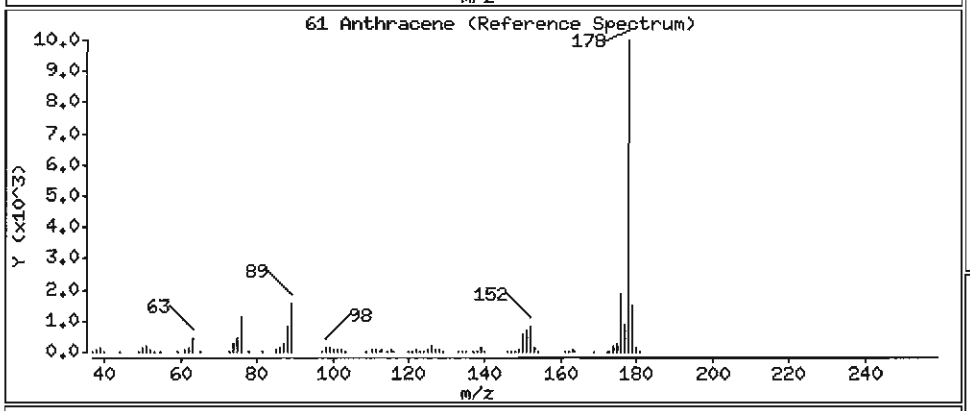
Column diameter: 0.32

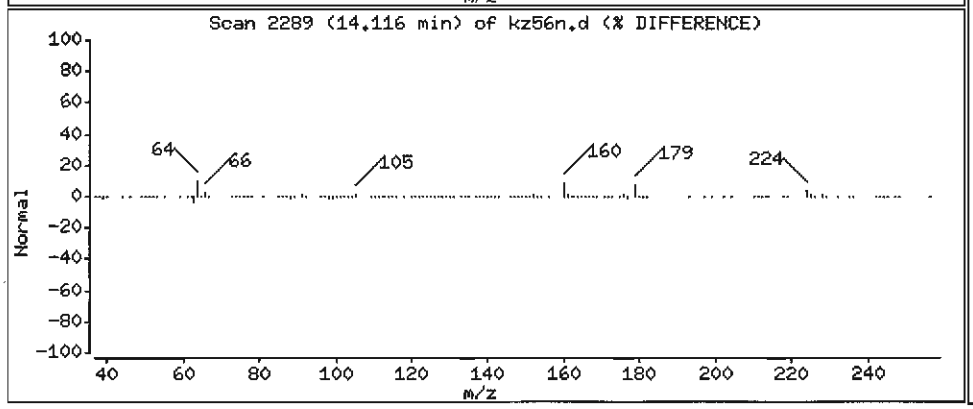
61 Anthracene

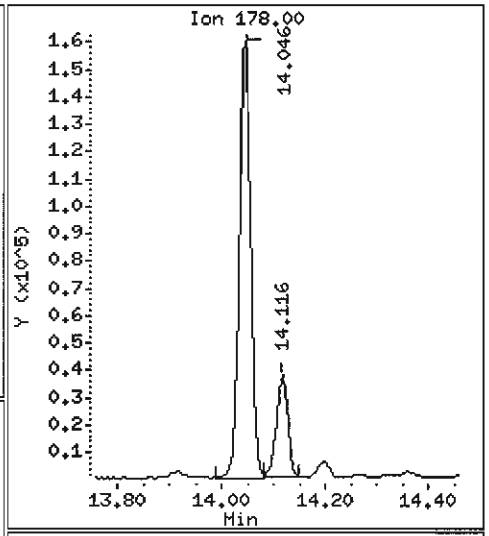
Concentration: 57.56 ug/kg

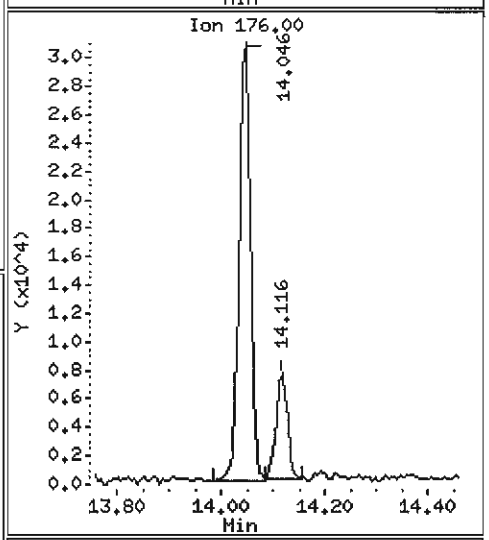


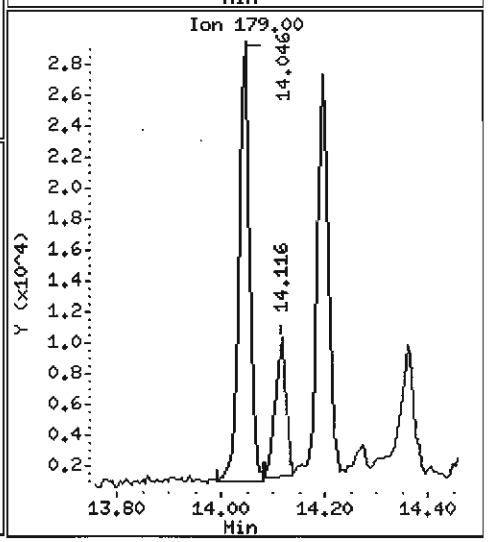












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

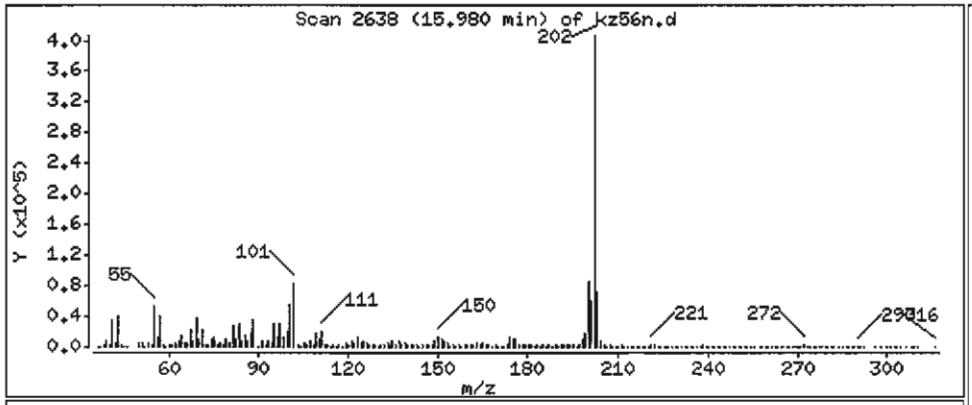
Operator: LJR/VTS

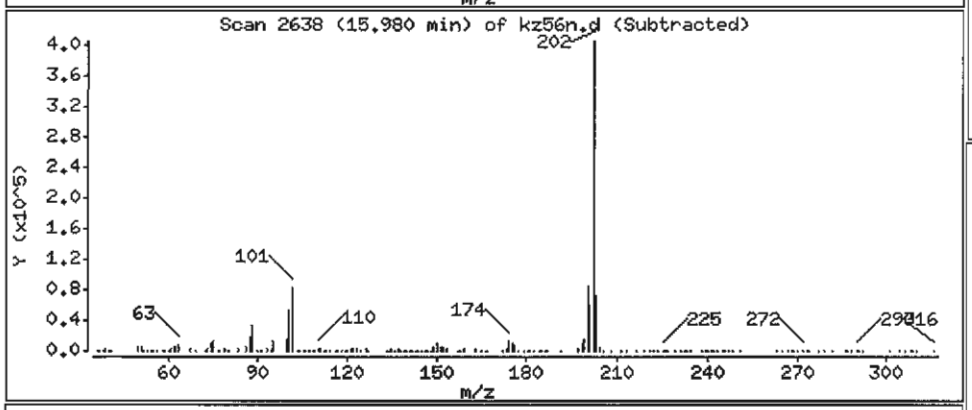
Column phase: ZB-5

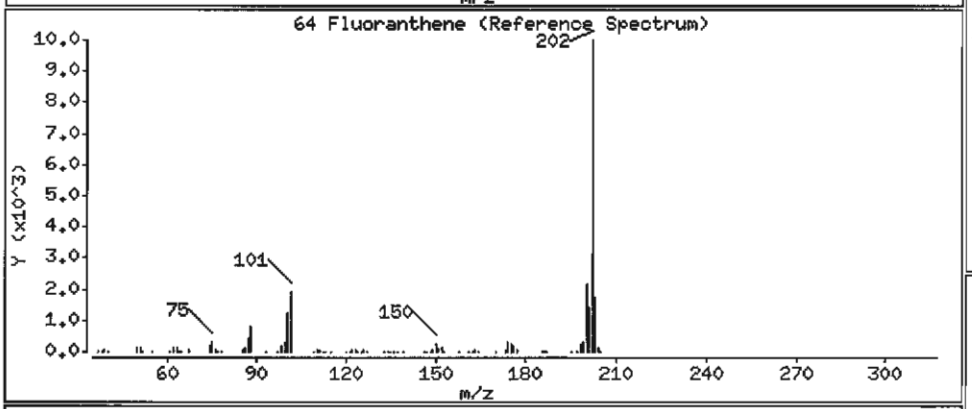
Column diameter: 0.32

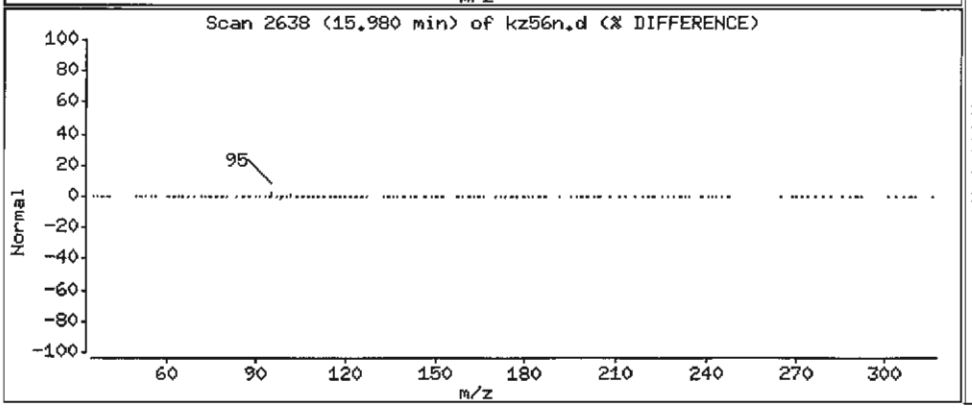
64 Fluoranthene

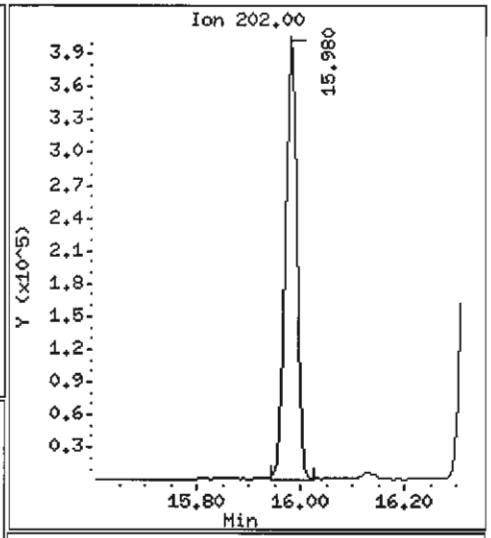
Concentration: 719.5 ug/kg

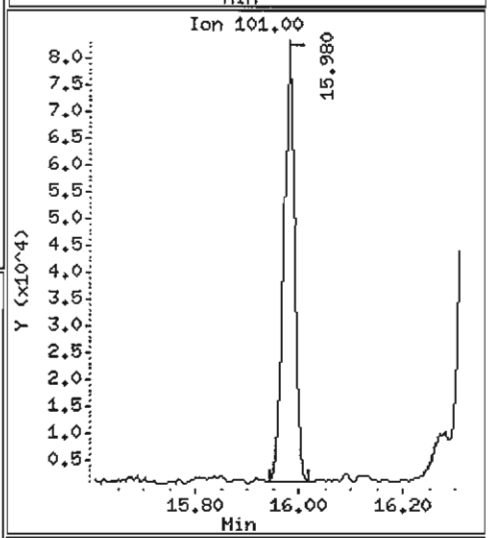


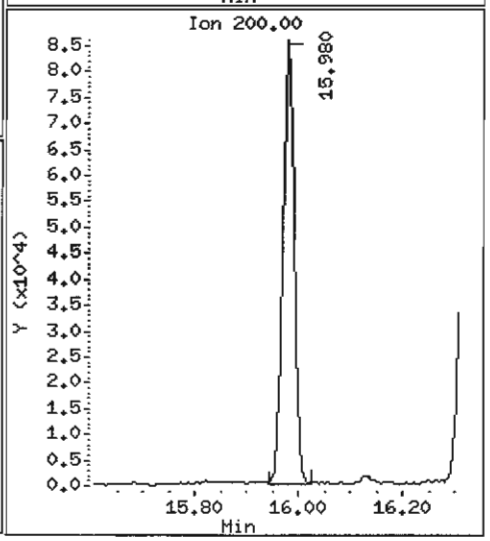












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

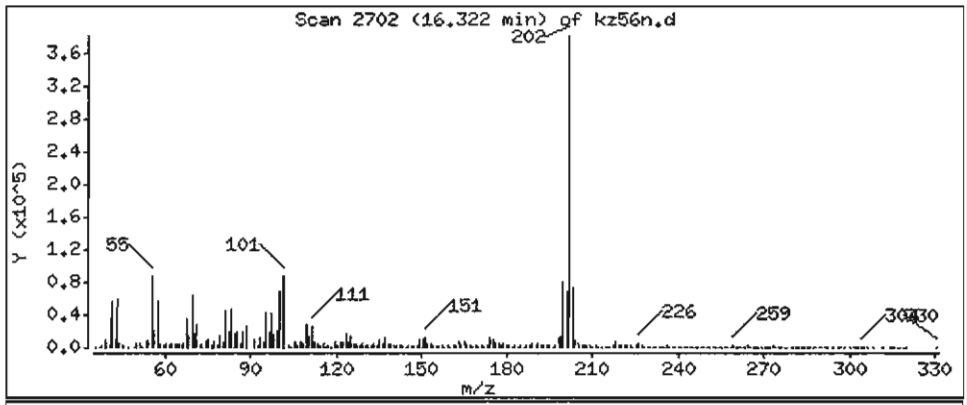
Operator: LJR/VTS

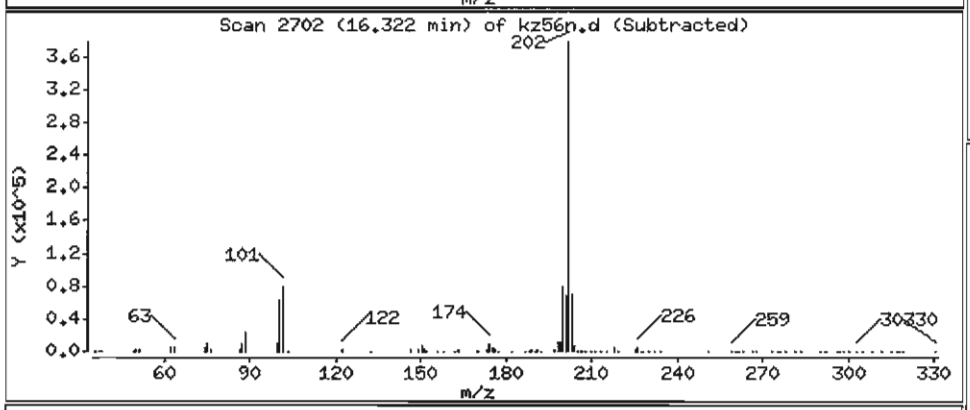
Column phase: ZB-5

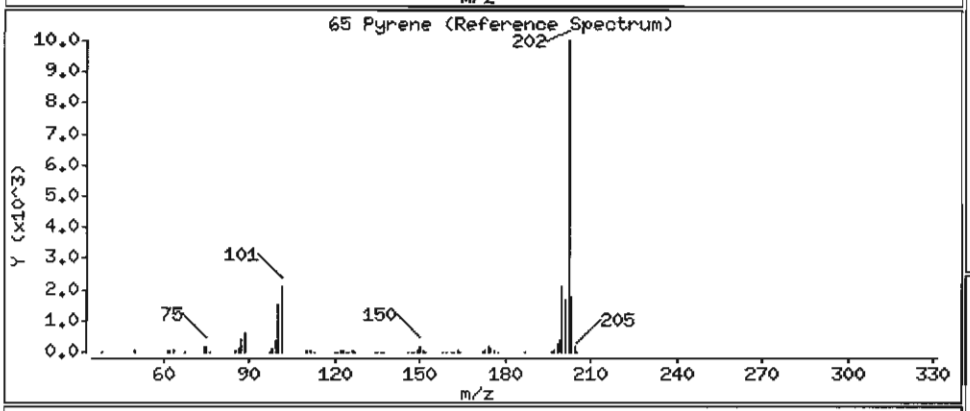
Column diameter: 0.32

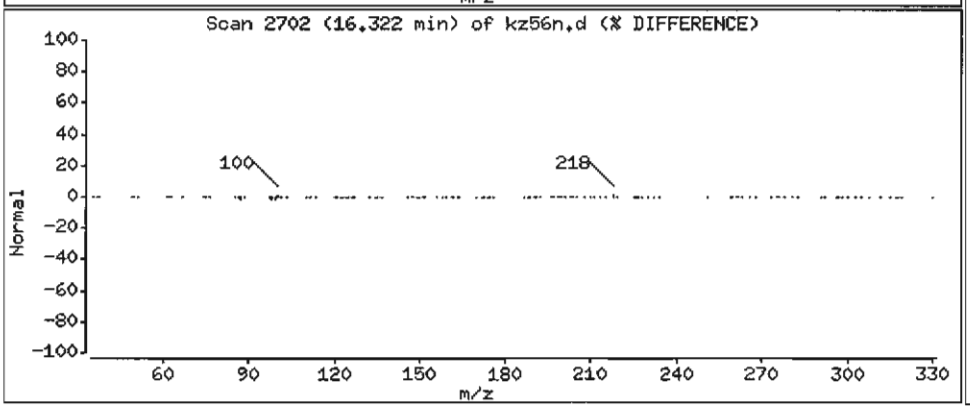
65 Pyrene

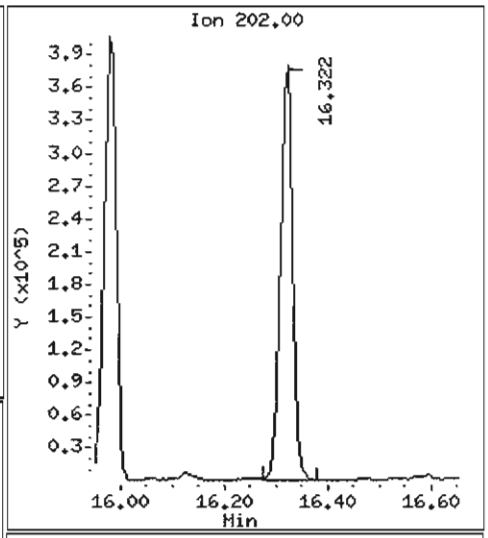
Concentration: 609.3 ug/kg

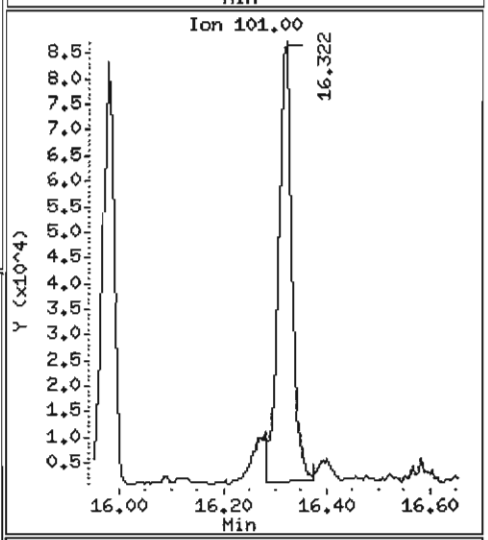


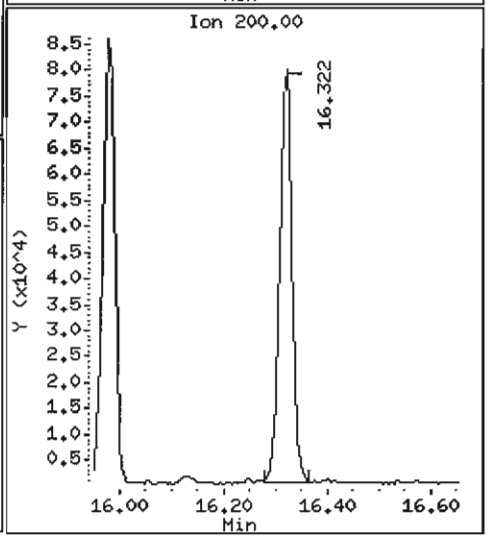












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

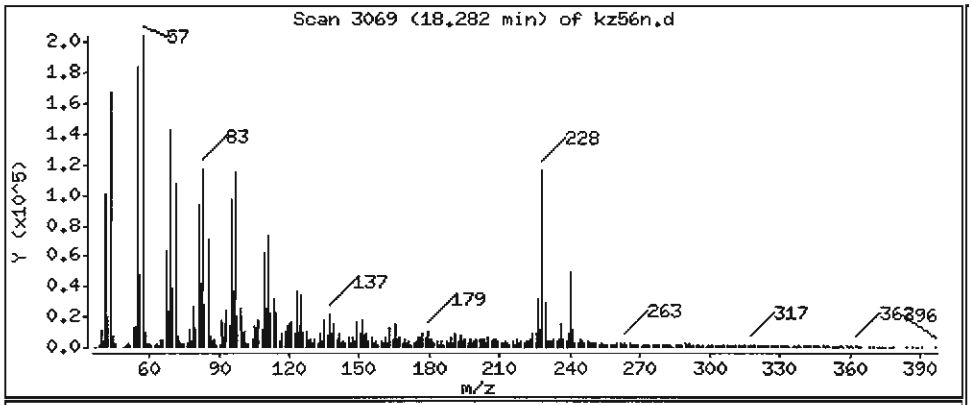
Operator: LJR/VTS

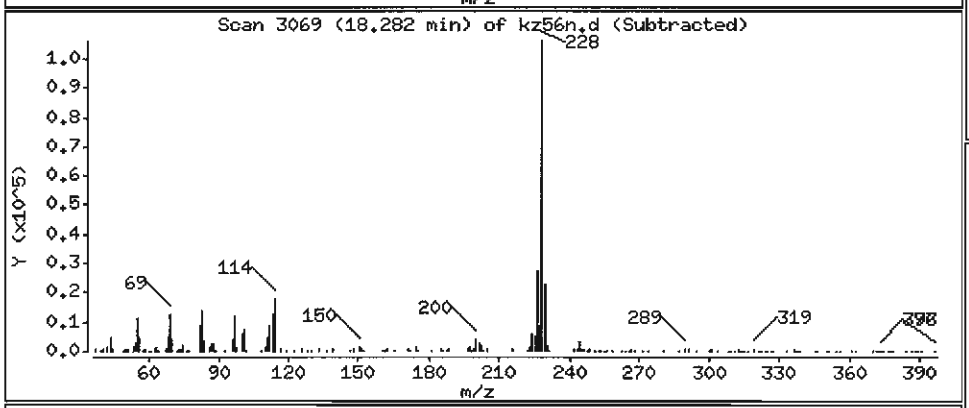
Column phase: ZB-5

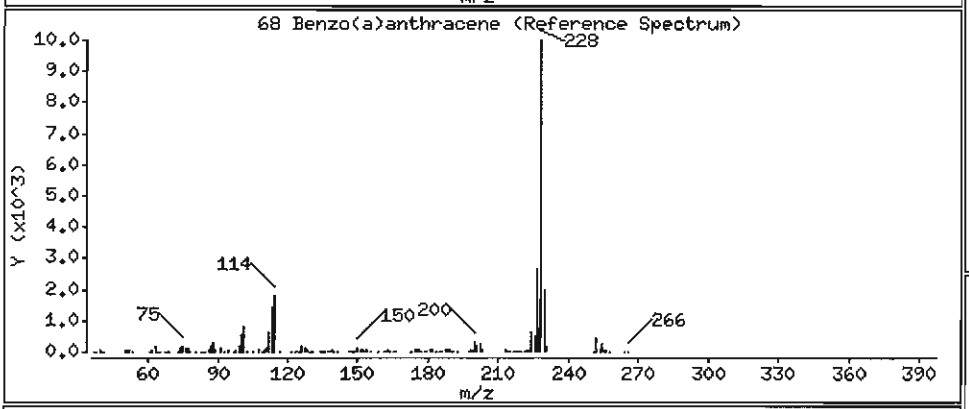
Column diameter: 0.32

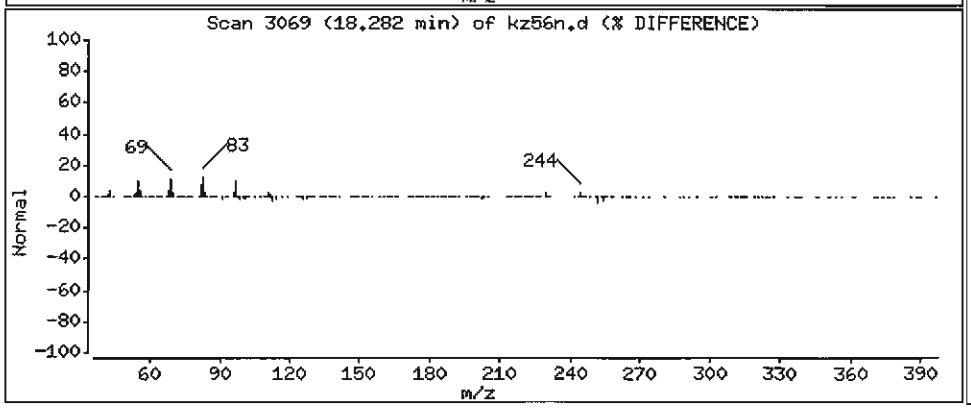
68 Benzo(a)anthracene

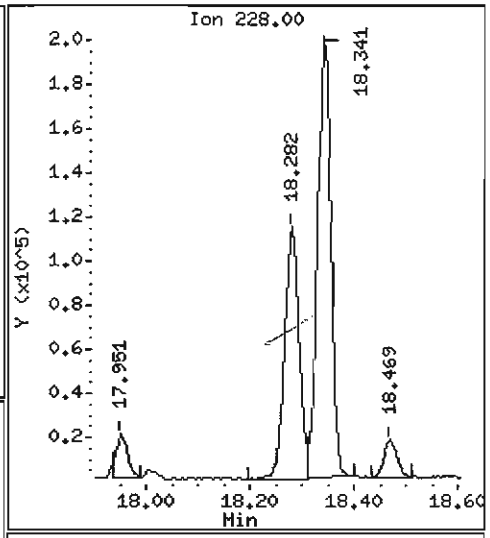
Concentration: 242.1 ug/kg

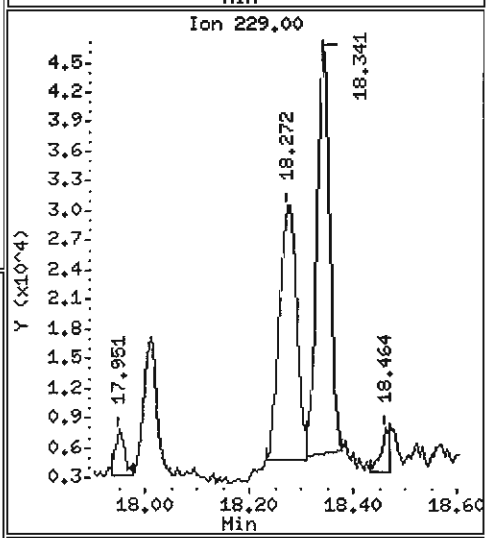


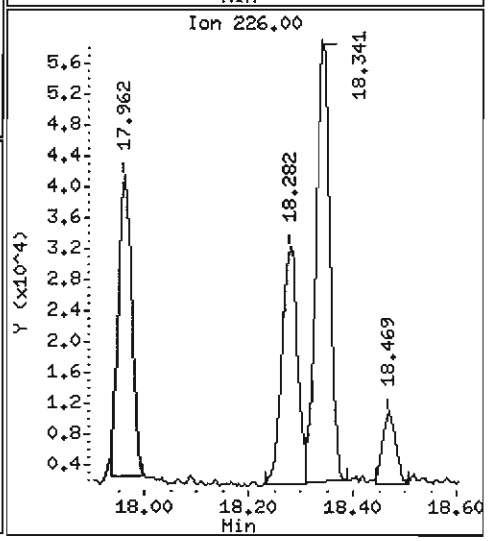












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

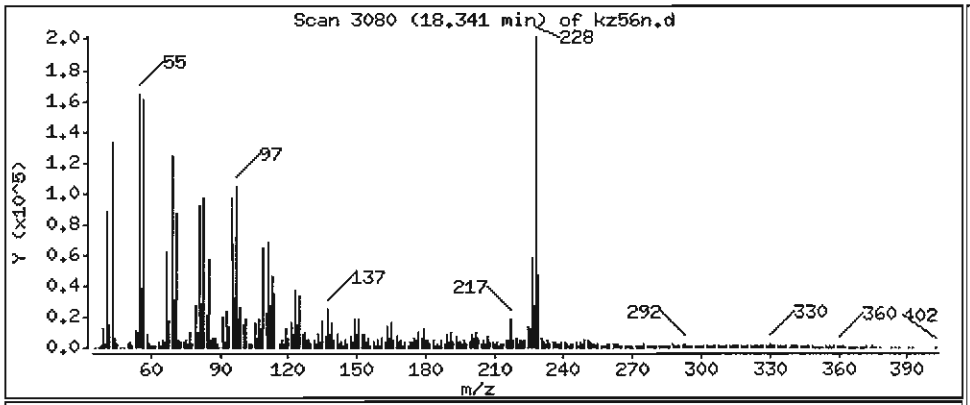
Operator: LJR/VTS

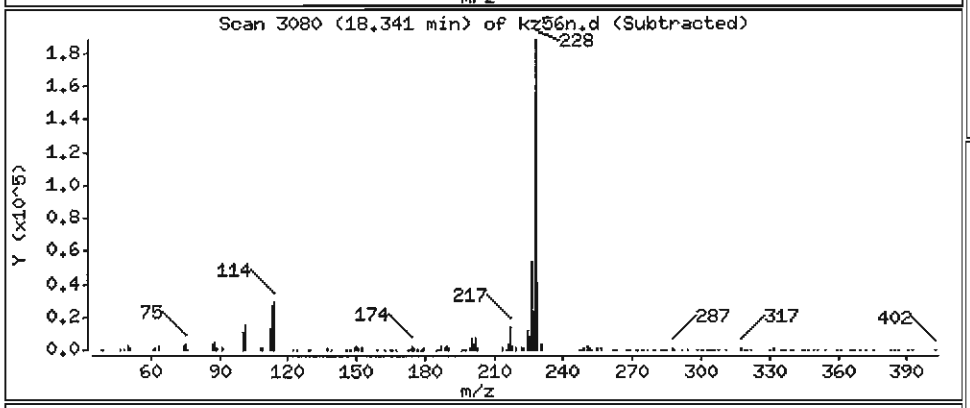
Column phase: ZB-5

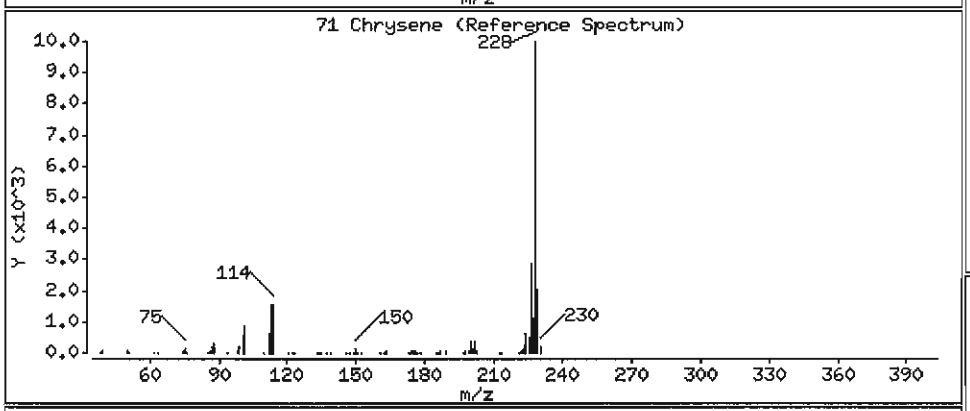
Column diameter: 0.32

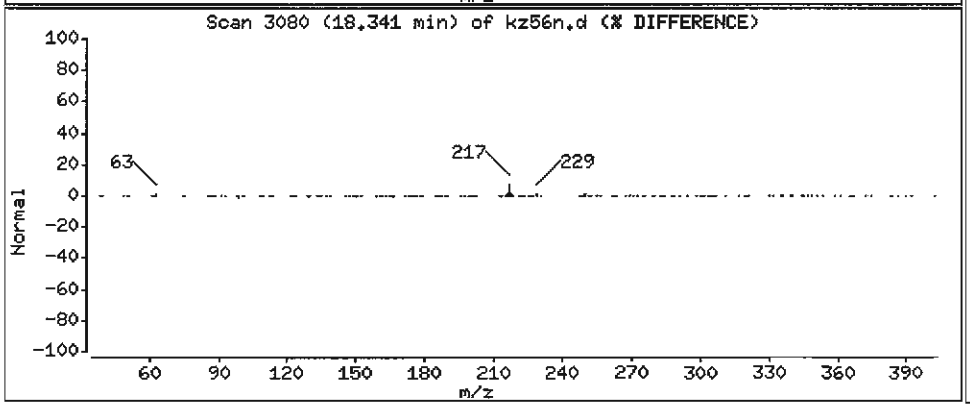
71 Chrysene

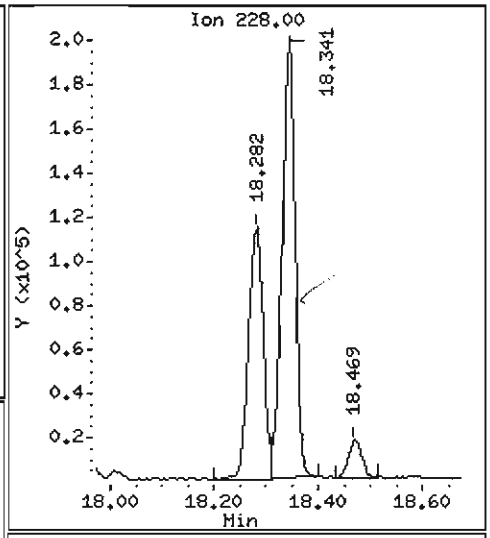
Concentration: 371.4 ug/kg

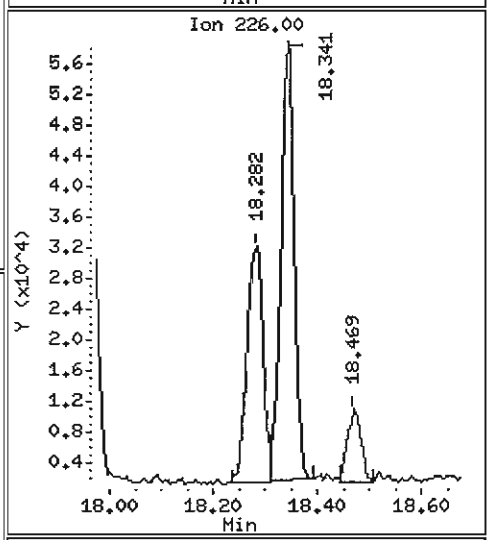


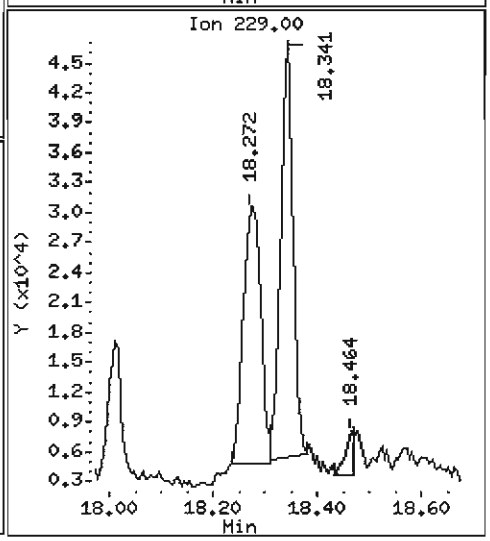












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

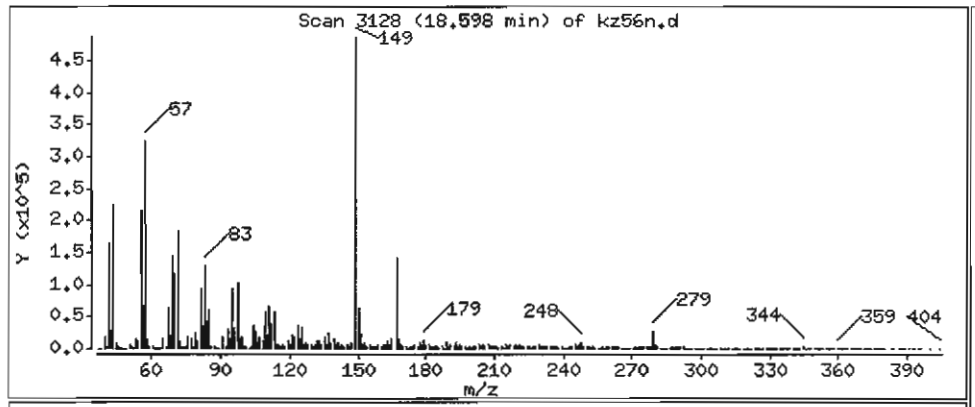
Operator: LJR/VTS

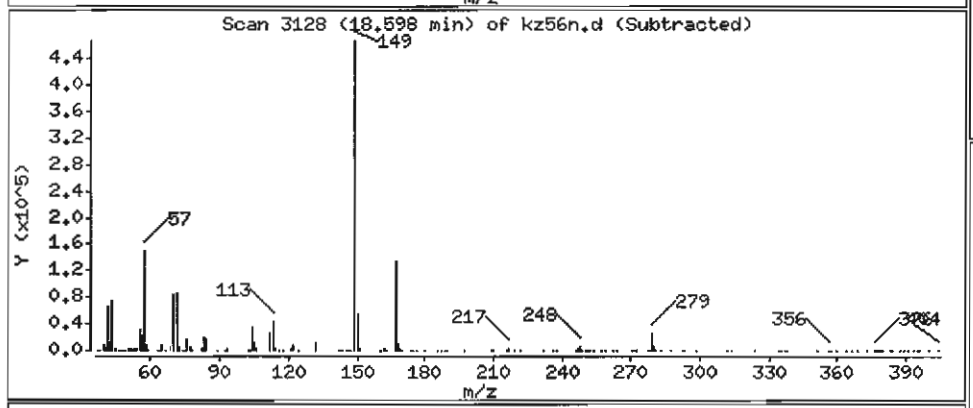
Column phase: ZB-5

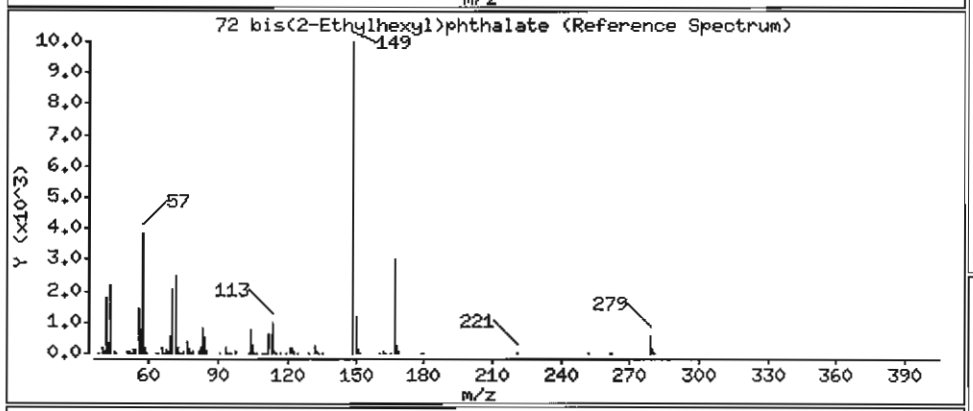
Column diameter: 0.32

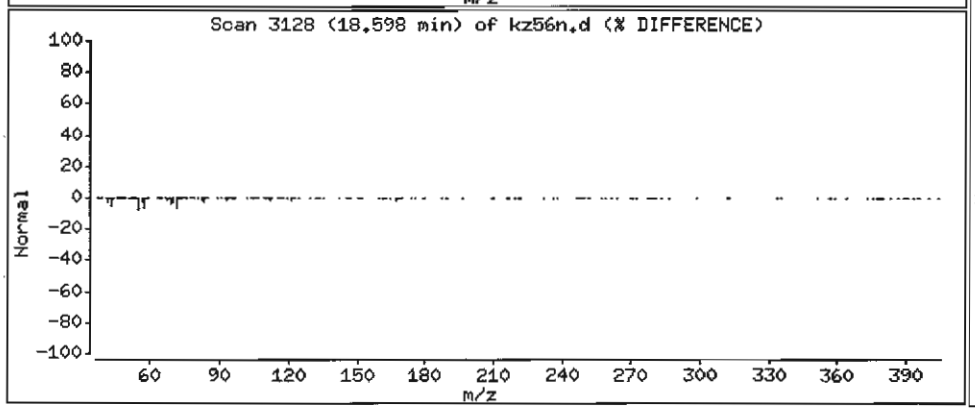
72 bis(2-Ethylhexyl)phthalate

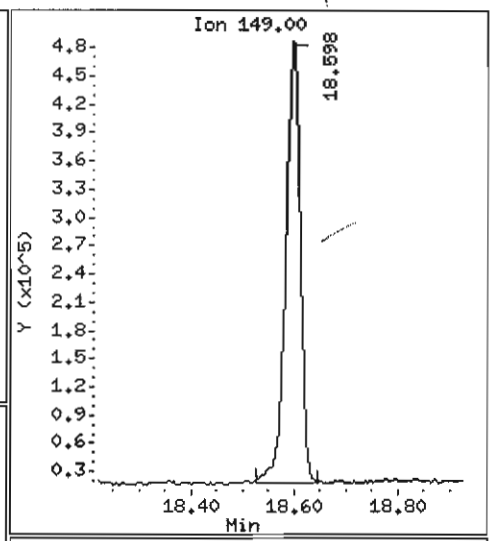
Concentration: 1449 ug/kg

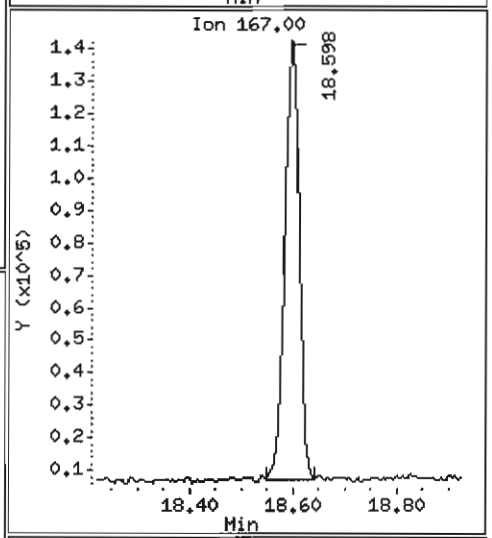


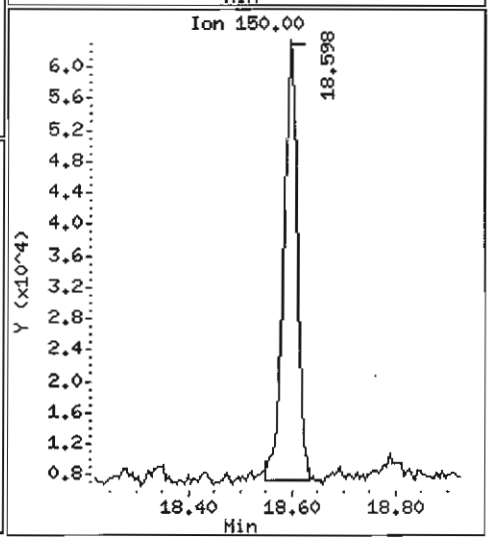












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

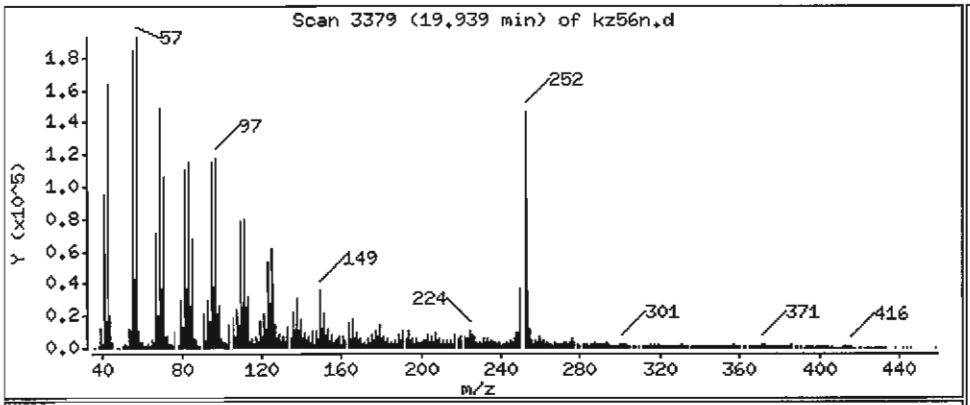
Operator: LJR/VTS

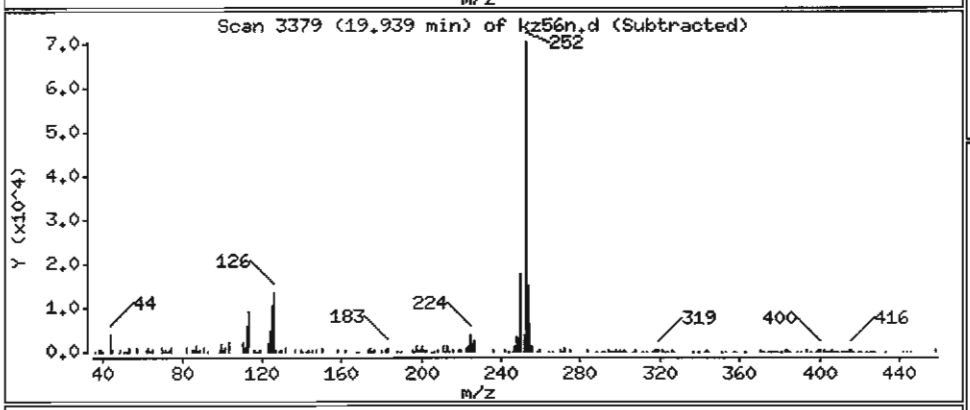
Column phase: ZB-5

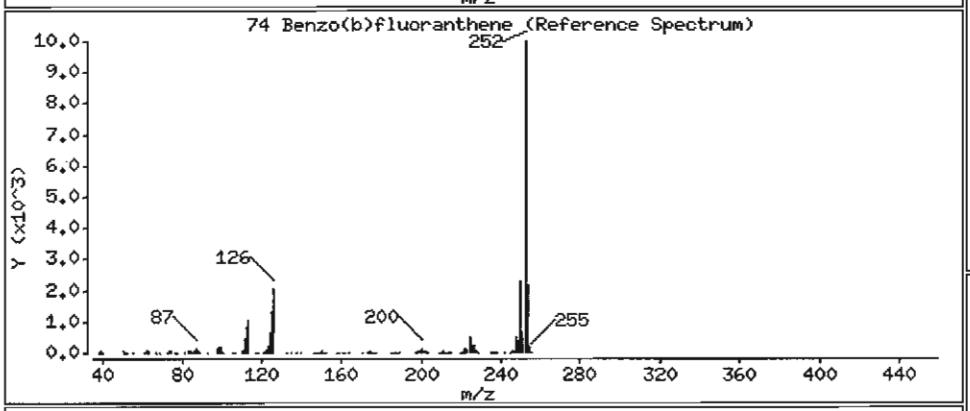
Column diameter: 0.32

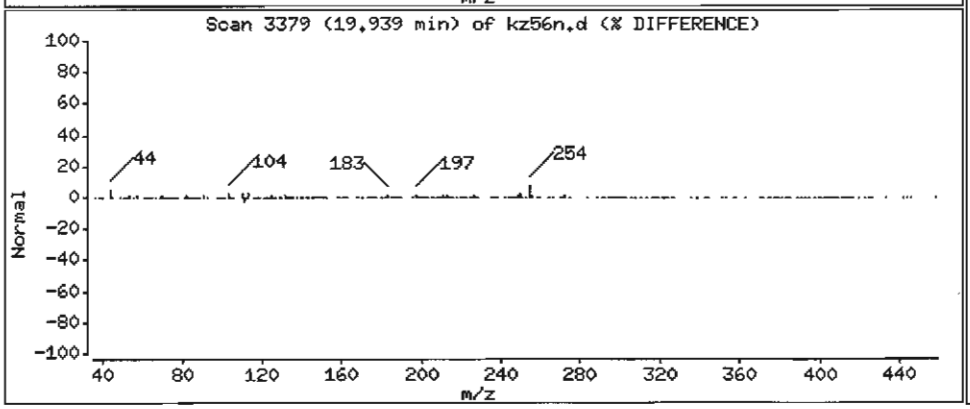
74 Benzo(b)fluoranthene

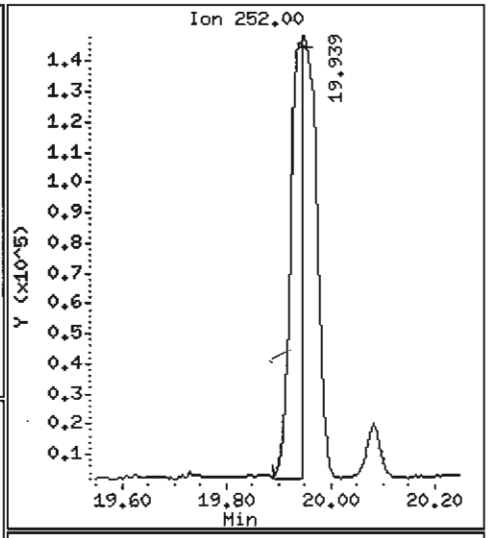
Concentration: 383.4 ug/kg

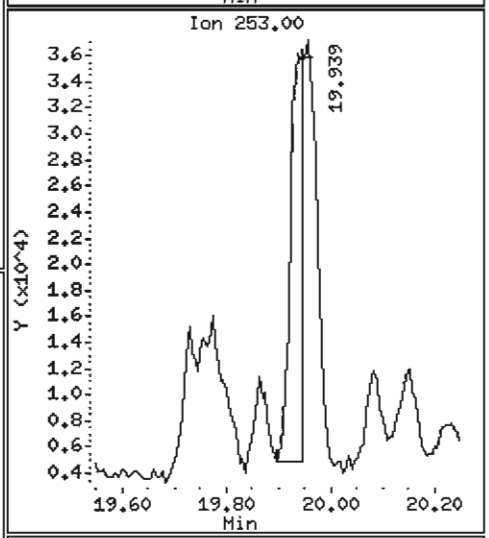


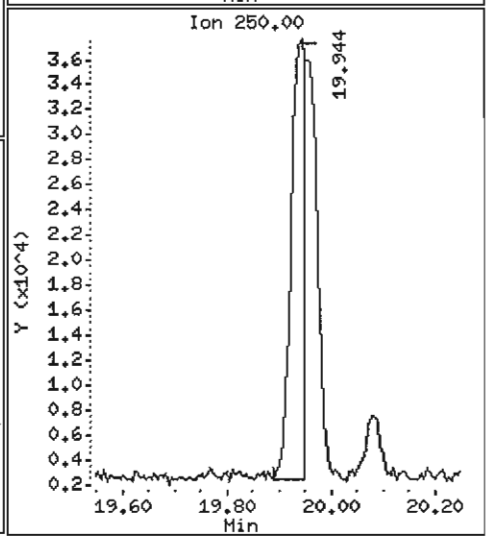












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

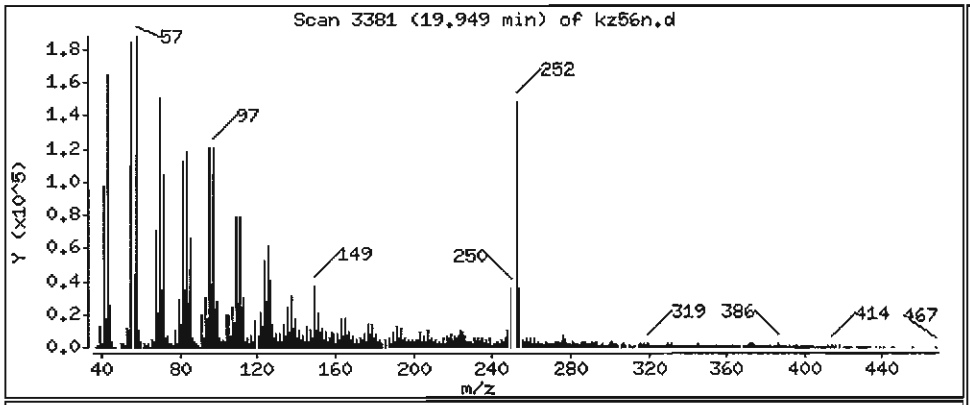
Operator: LJR/VTS

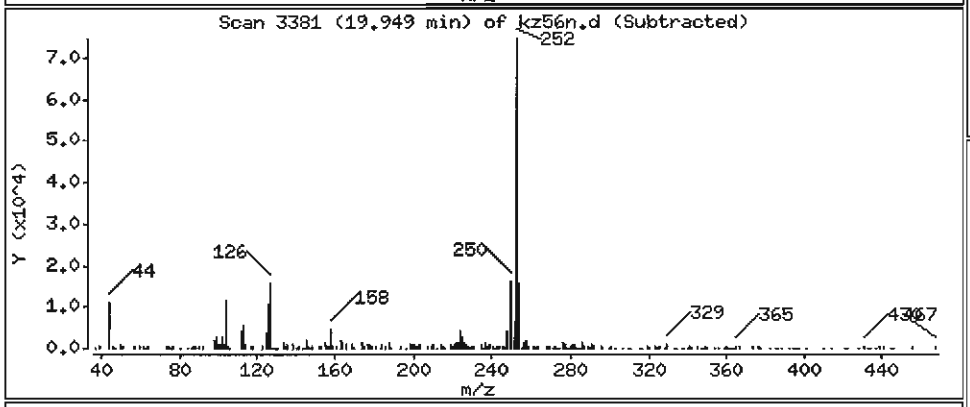
Column phase: ZB-5

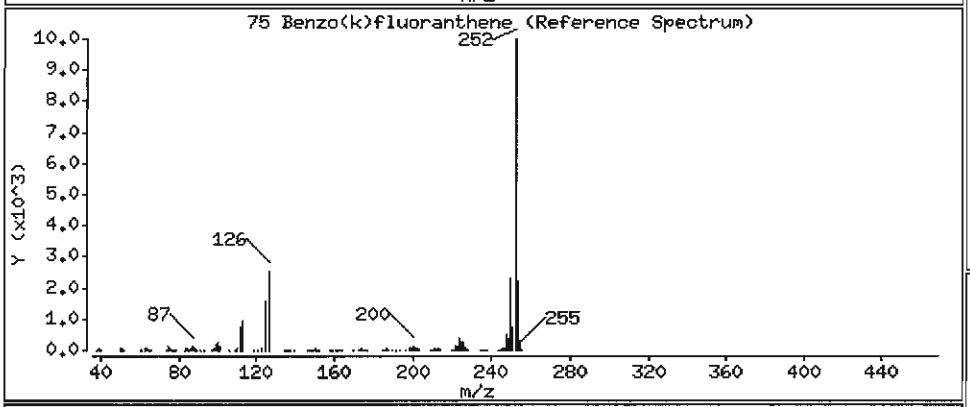
Column diameter: 0.32

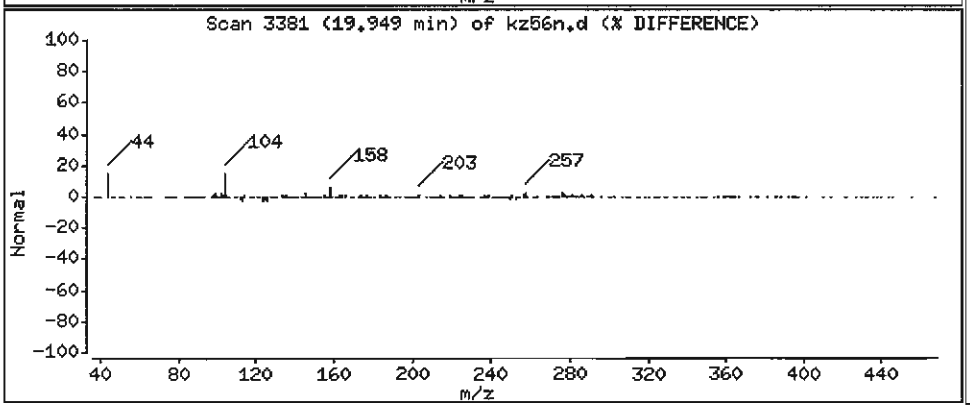
75 Benzo(k)fluoranthene

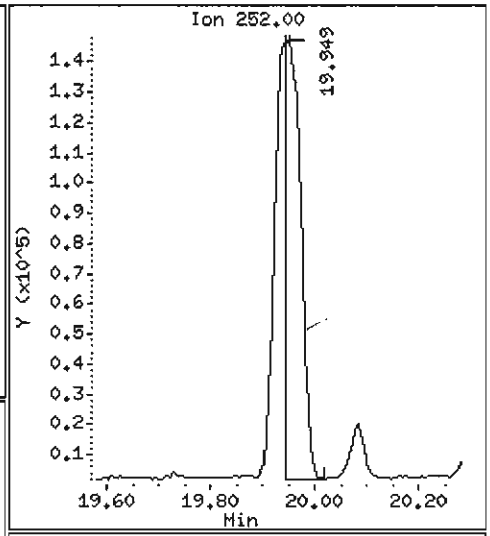
Concentration: 524.6 ug/kg

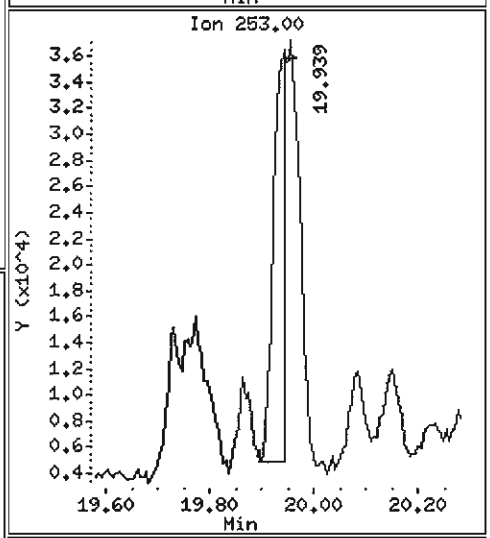


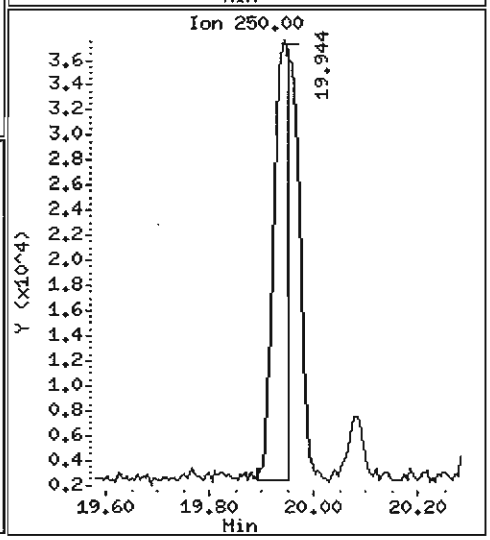












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

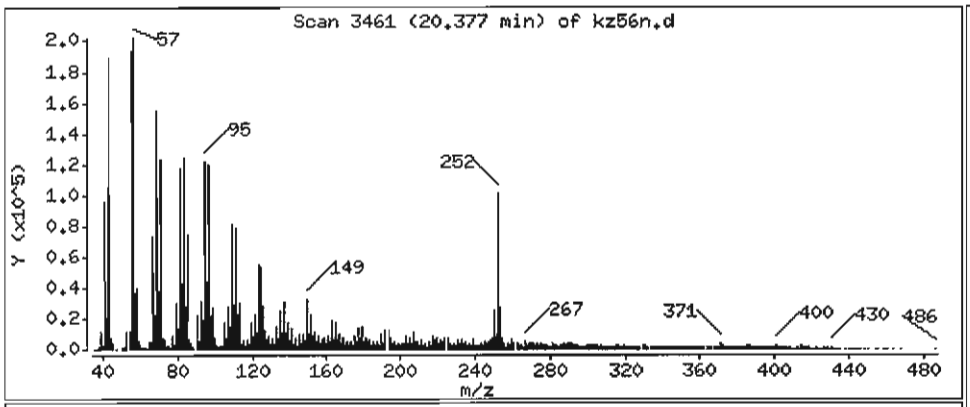
Operator: LJR/VTS

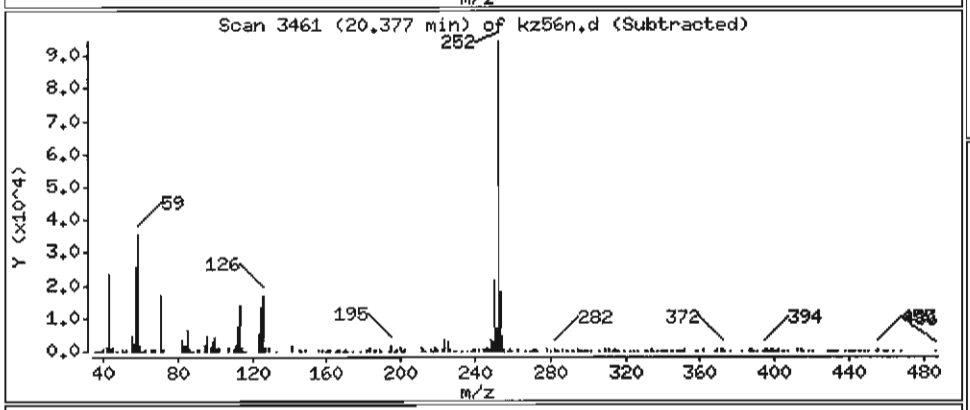
Column phase: ZB-5

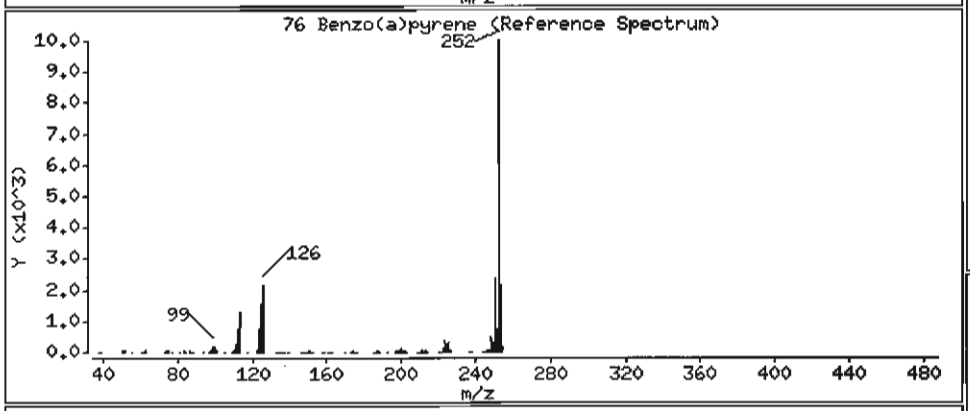
Column diameter: 0.32

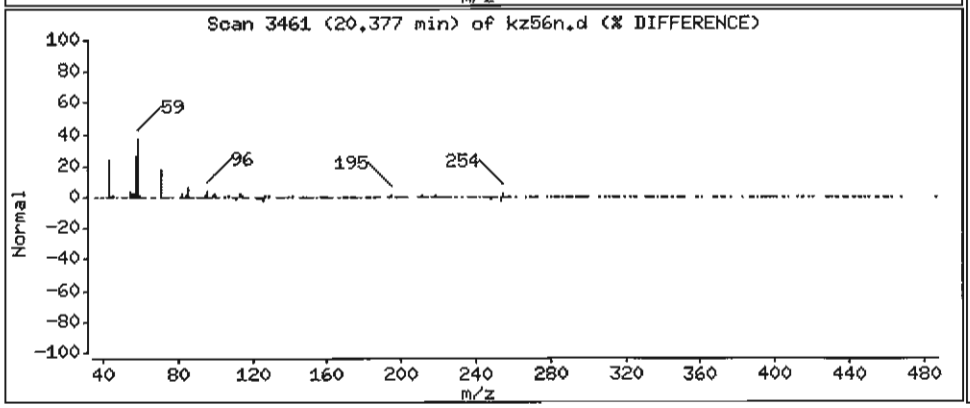
76 Benzo(a)pyrene

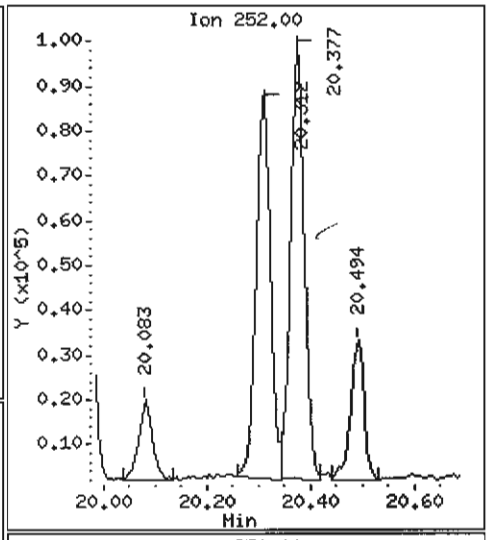
Concentration: 290.3 ug/kg

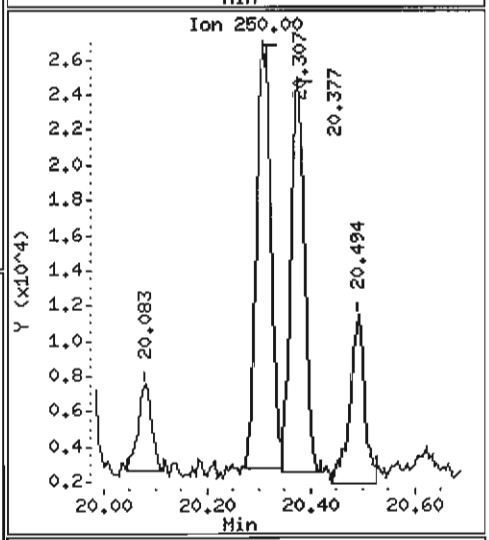


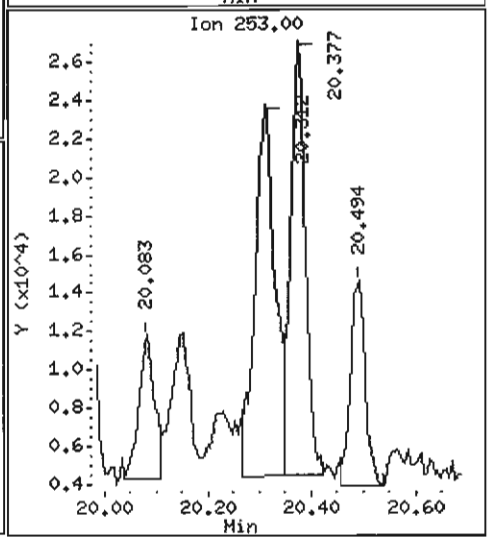












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

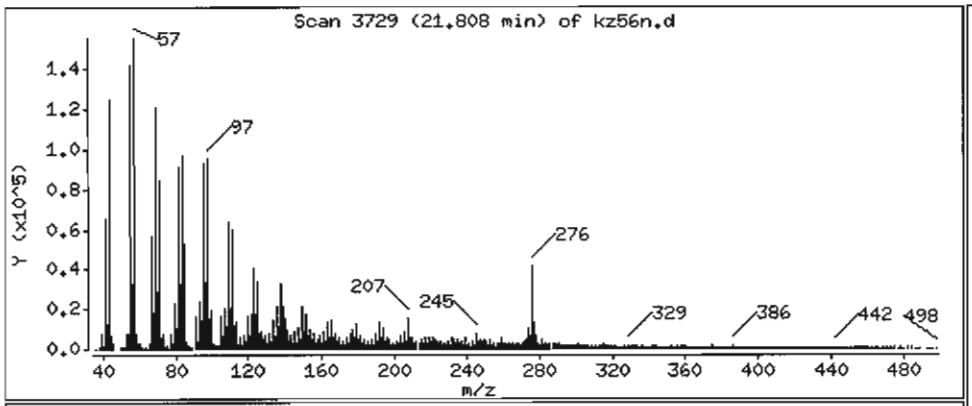
Operator: LJR/VTS

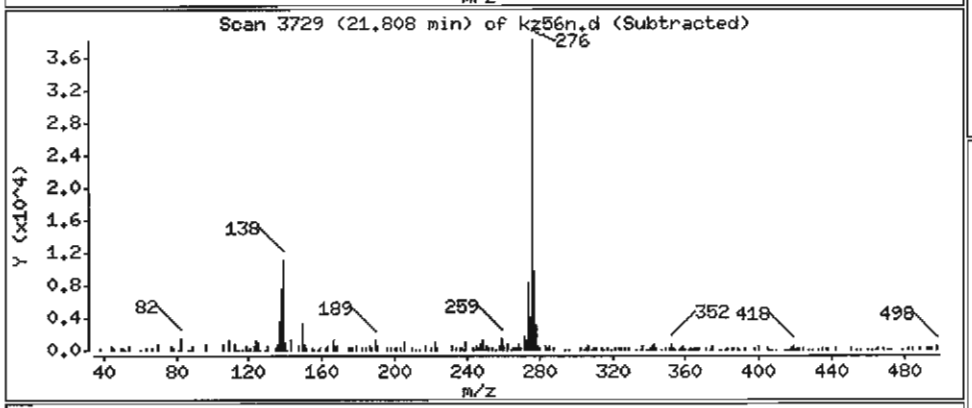
Column phase: ZB-5

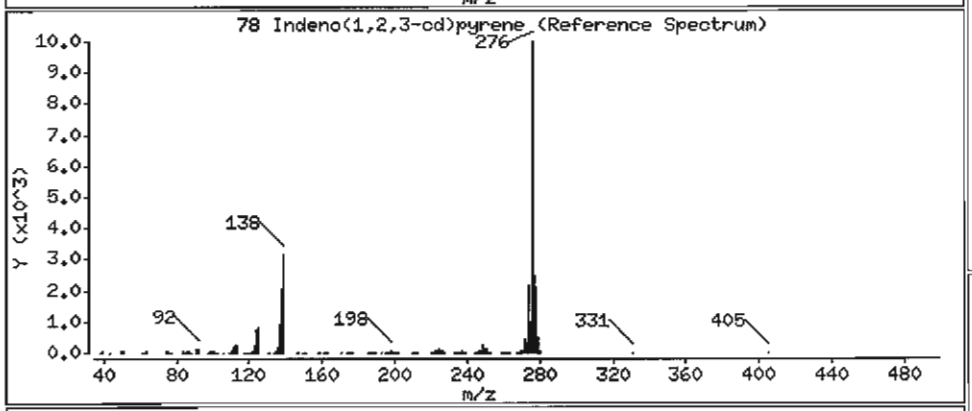
Column diameter: 0.32

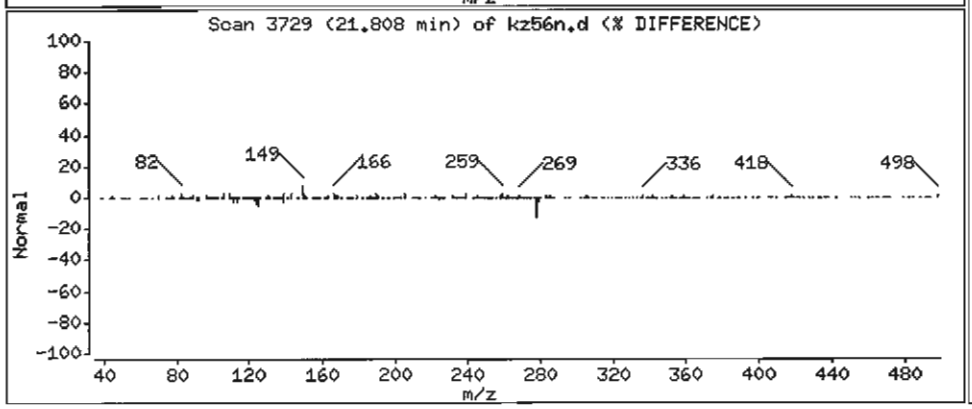
78 Indeno(1,2,3-cd)pyrene

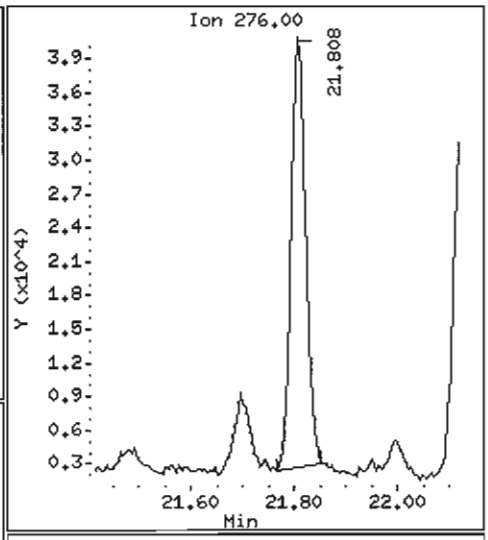
Concentration: 101.7 ug/kg

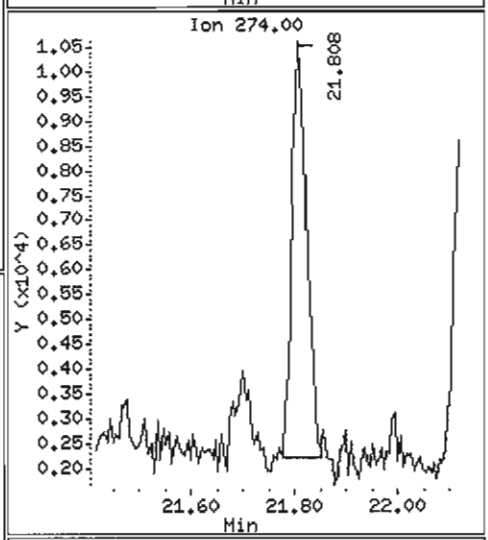


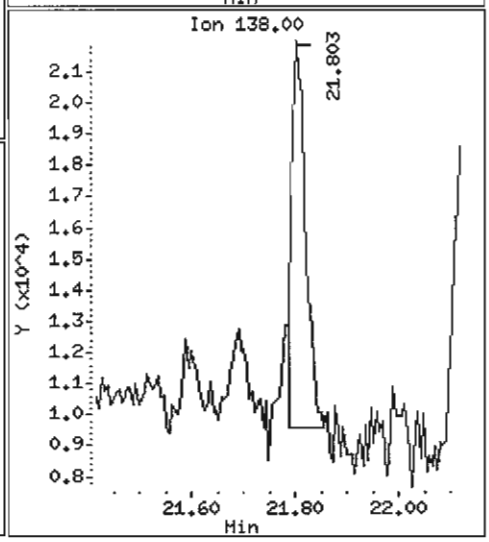












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

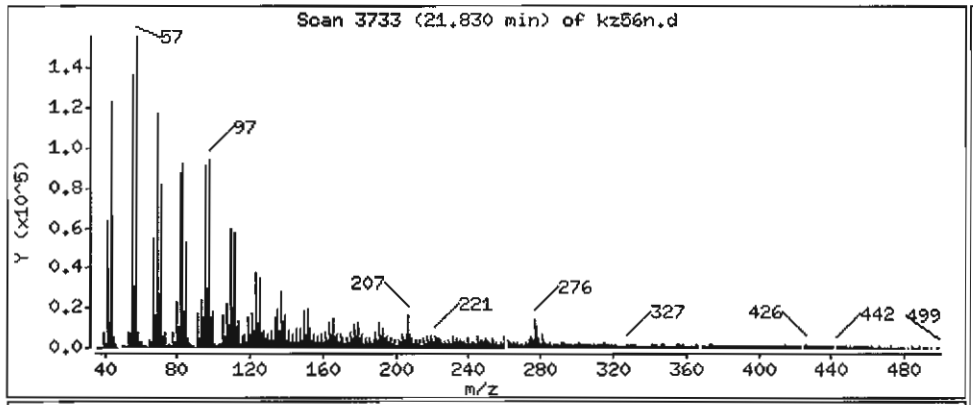
Operator: LJR/VTS

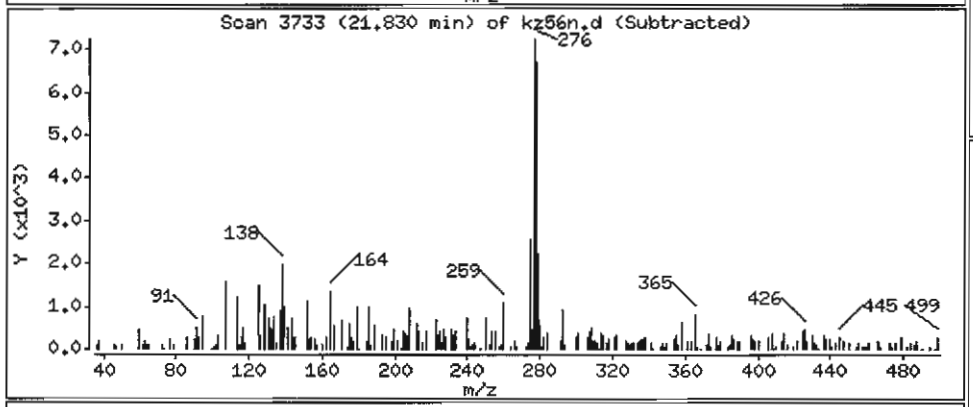
Column phase: ZB-5

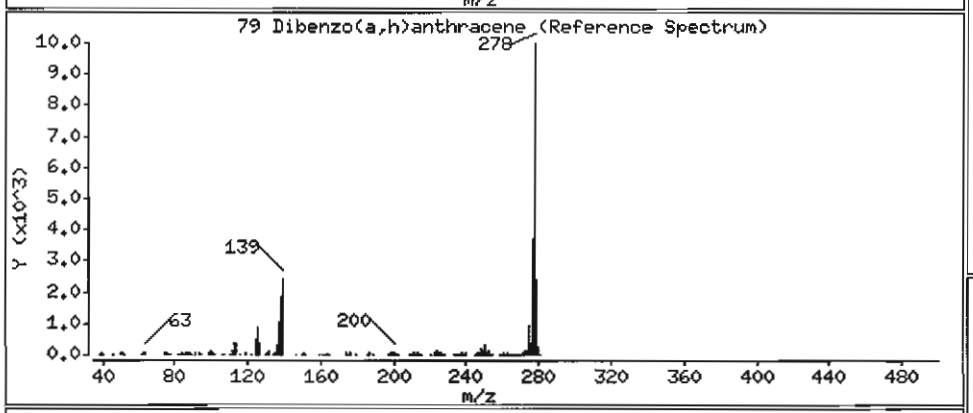
Column diameter: 0.32

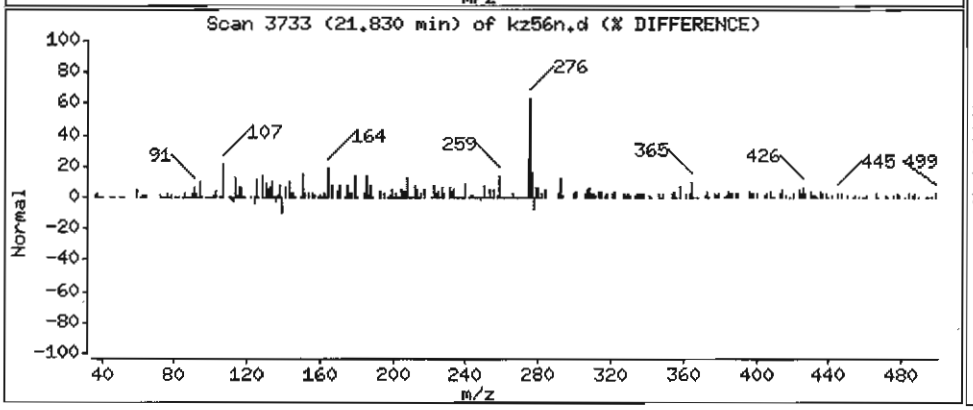
79 Dibenzo(a,h)anthracene

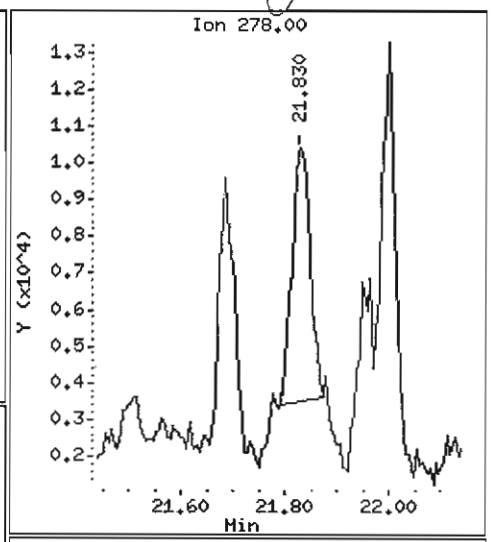
Concentration: 27.66 ug/kg

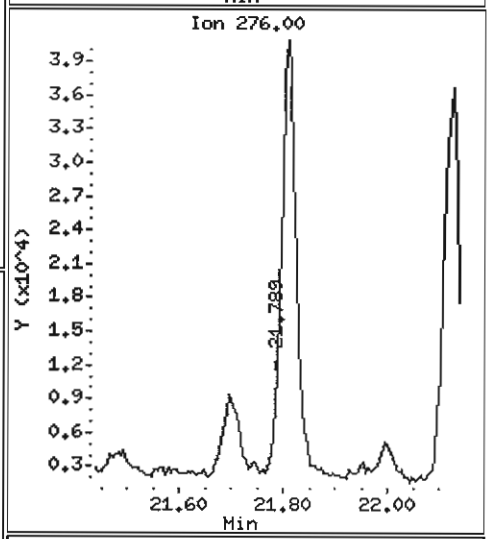


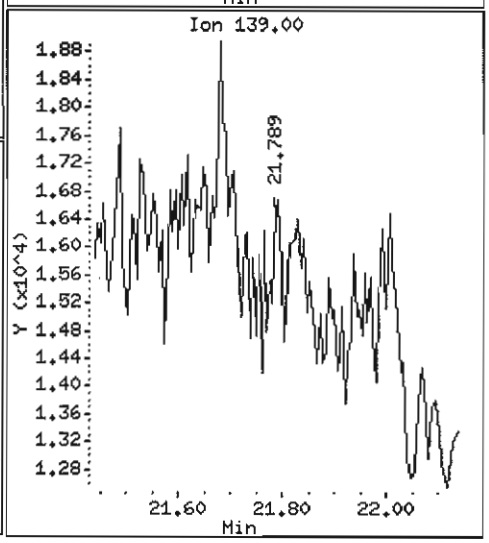












Data File: /chem1/nt6.i/20070529.b/kz56n.d

Date : 29-MAY-2007 14:53

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56N

Volume Injected (uL): 1.0

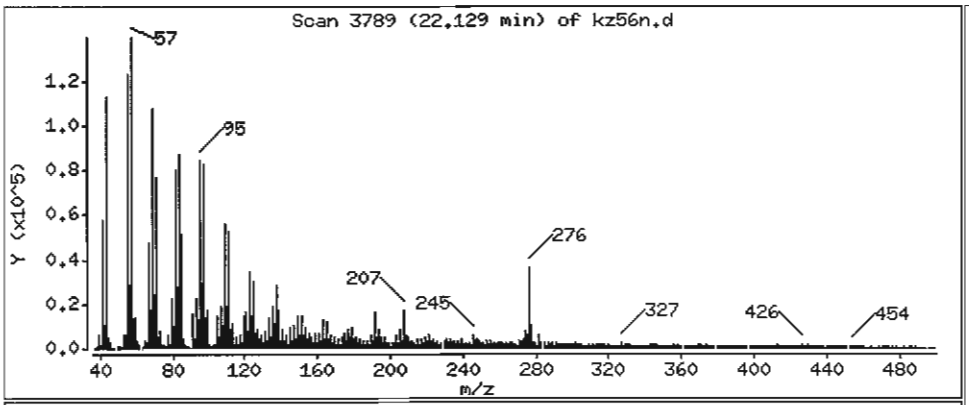
Operator: LJR/VTS

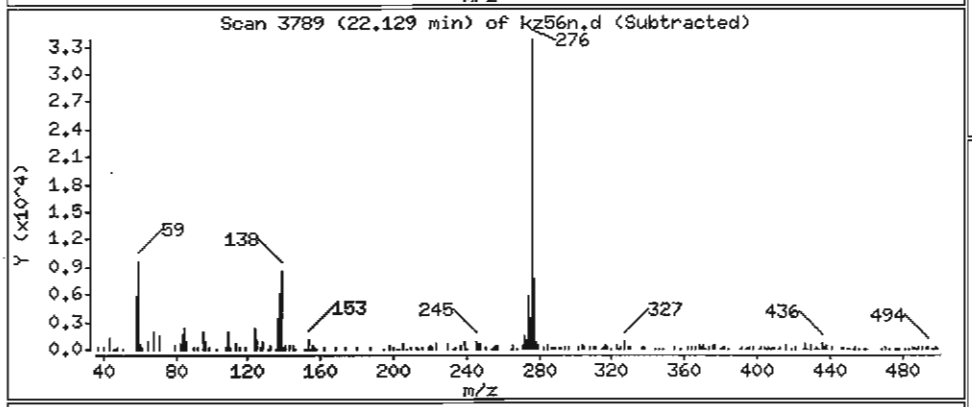
Column phase: ZB-5

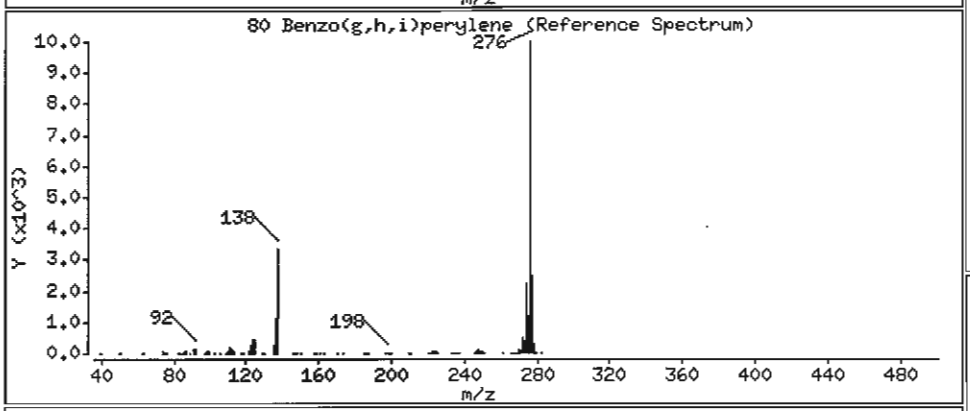
Column diameter: 0.32

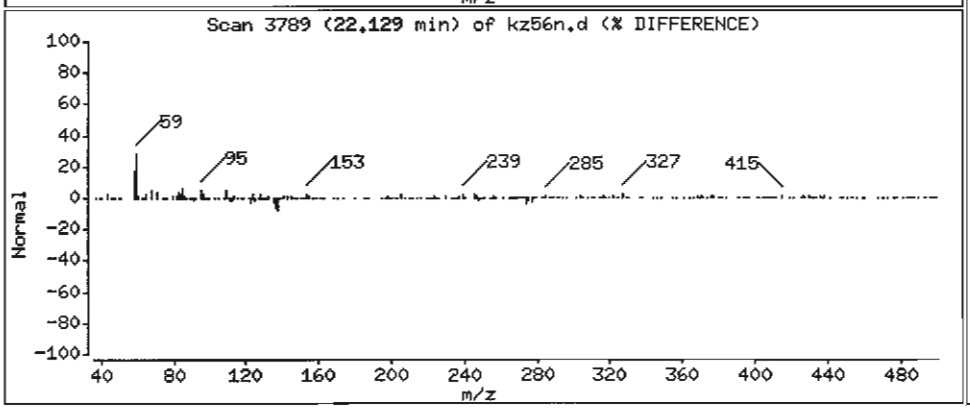
80 Benzo(g,h,i)perylene

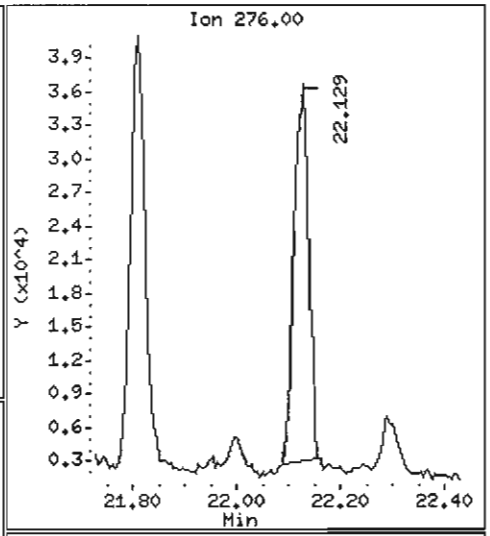
Concentration: 97.87 ug/kg

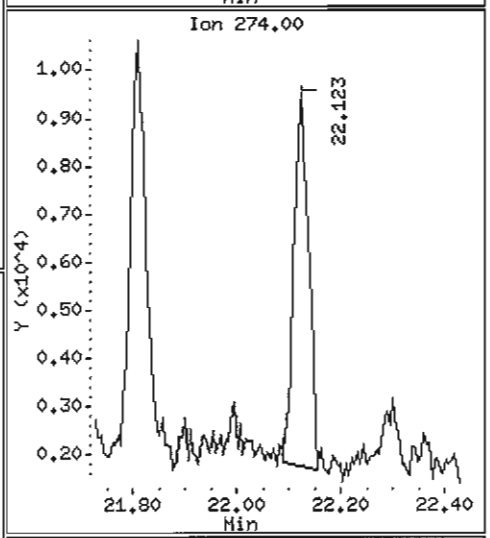


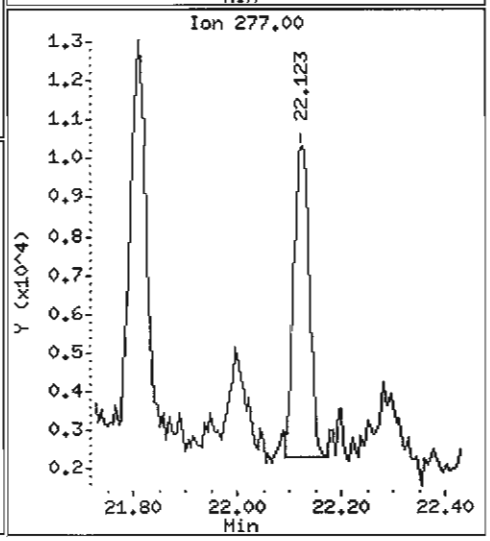












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC04-S
REEXTRACT

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 16:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 52.8%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	110	130
91-57-6	2-Methylnaphthalene	110	< 110 U
208-96-8	Acenaphthylene	110	< 110 U
83-32-9	Acenaphthene	110	61 J
132-64-9	Dibenzofuran	110	< 110 U
86-73-7	Fluorene	110	63 J
85-01-8	Phenanthrene	110	930
120-12-7	Anthracene	110	190
206-44-0	Fluoranthene	110	2,300
129-00-0	Pyrene	110	2,000
56-55-3	Benzo(a)anthracene	110	840
117-81-7	bis(2-Ethylhexyl)phthalate	110	4,700 E
218-01-9	Chrysene	110	1,300
205-99-2	Benzo(b)fluoranthene	110	1,300
207-08-9	Benzo(k)fluoranthene	110	1,500
50-32-8	Benzo(a)pyrene	110	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	110	410
53-70-3	Dibenz(a,h)anthracene	110	82 J
191-24-2	Benzo(g,h,i)perylene	110	420

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.7%	2-Fluorobiphenyl	59.9%
d14-p-Terphenyl	55.3%	d4-1,2-Dichlorobenzene	57.0%
d5-Phenol	58.5%	2-Fluorophenol	52.5%
2,4,6-Tribromophenol	66.4%	d4-2-Chlorophenol	58.7%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070606.b/kz56nre.d
Lab Smp Id: KZ56NRE Client Smp ID: Y3-RC04-S
Inj Date : 06-JUN-2007 16:26
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56NRE,3
Misc Info : 07-9560
Comment : 1ul Injection
Method : /chem1/nt6.i/20070606.b/SW846.m
Meth Date : 07-Jun-2007 08:44 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 15
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 6/7/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	59.10000	Weight of sample extracted (g)
M	52.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.251	4.228	(0.688)	137947	6.56360	705.9
$ 2 Phenol-d5	99	5.886	5.878	(0.952)	180189	7.30697	785.8
3 Phenol	94	5.902	5.894	(0.955)	40225	1.48508	159.8
$ 5 2-Chlorophenol-d4	132	5.902	5.894	(0.955)	125220	7.34384	789.8
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.180	6.177	(1.000)	231167	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	6.473	6.471	(1.048)	49508	4.74822	510.6
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	7.045	7.043	(1.140)	55015	3.03162	326.0
$	18 Nitrobenzene-d5	82	7.114	7.118	(0.868)	102185	5.06447	544.7
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.199	8.197	(1.000)	847946	20.0000	
	28 Naphthalene	128	8.231	8.229	(1.004)	60628	1.20711	129.8
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.005	10.002	(0.909)	153660	4.99385	537.1
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.009	11.007	(1.000)	455913	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.052	11.055	(1.004)	16535	0.57473 LDL	61.81(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	11.864	11.861	(1.078)	18101	0.59229 LDL	63.70(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.286	12.284	(1.116)	38540	8.30323	893.0
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	13.327	13.325	(1.000)	676586	20.0000	
	60 Phenanthrene	178	13.359	13.357	(1.002)	391612	8.67300	932.7
	61 Anthracene	178	13.434	13.427	(1.008)	82578	1.76999	190.4
	62 Carbazole	167	13.749	13.742	(1.032)	80627	2.00833	216.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	14.545	14.533	(1.091)	53505	1.08066	116.2(M)
64 Fluoranthene	202	15.272	15.254	(1.146)	912141	21.2917	2290
65 Pyrene	202	15.603	15.590	(0.888)	911741	18.3883	1978
$ 66 Terphenyl-d14	244	15.982	15.970	(0.909)	144660	4.60724	495.5
67 Butylbenzylphthalate	149	16.907	16.888	(0.962)	55028	2.36045	253.9(M)
68 Benzo(a)anthracene	228	17.558	17.529	(0.999)	348313	7.80326	839.2
* 69 Chrysene-d12	240	17.580	17.551	(1.000)	597557	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	17.617	17.588	(1.002)	546456	12.1019	1302
72 bis(2-Ethylhexyl)phthalate	149	17.948	17.919	(0.951)	1377221	44.1314 E	4746(M)
* 134 Di-n-octylphthalate-d4	153	18.878	18.838	(1.000)	911146	20.0000	
73 Di-n-octylphthalate	149	18.889	18.849	(1.001)	72301	1.33573	143.7(M)
74 Benzo(b)fluoranthene	252	19.209	19.154	(0.974)	460998	12.3146	1324(M)
75 Benzo(k)fluoranthene	252	19.209	19.186	(0.974)	495840	13.7880	1483(M)
76 Benzo(a)pyrene	252	19.631	19.581	(0.996)	358103	9.55717	1028
* 77 Perylene-d12	264	19.717	19.656	(1.000)	577364	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.052	20.997	(1.068)	169621	3.82900	411.8(M)
79 Dibenzo(a,h)anthracene	278	21.079	21.034	(1.069)	27818	0.75818 DL	81.54(M)
80 Benzo(g,h,i)perylene	276	21.335	21.285	(1.082)	158019	3.89387	418.8
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56nre.d
Lab Smp Id: KZ56NRE
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-9560

Calibration Date: 06-JUN-2007
Calibration Time: 08:14
Client Smp ID: Y3-RC04-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	210566	105283	421132	231167	9.78
27 Naphthalene-d8	738477	369238	1476954	847946	14.82
42 Acenaphthene-d10	362869	181434	725738	455913	25.64
59 Phenanthrene-d10	499867	249934	999734	676586	35.35
69 Chrysene-d12	387597	193798	775194	597557	54.17
134 Di-n-octylphthala	653887	326944	1307774	911146	39.34
77 Perylene-d12	508340	254170	1016680	577364	13.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.18	5.68	6.68	6.18	0.03
27 Naphthalene-d8	8.20	7.70	8.70	8.20	0.03
42 Acenaphthene-d10	11.01	10.51	11.51	11.01	0.02
59 Phenanthrene-d10	13.33	12.83	13.83	13.33	0.02
69 Chrysene-d12	17.55	17.05	18.05	17.58	0.16
134 Di-n-octylphthala	18.84	18.34	19.34	18.88	0.21
77 Perylene-d12	19.66	19.16	20.16	19.72	0.31

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

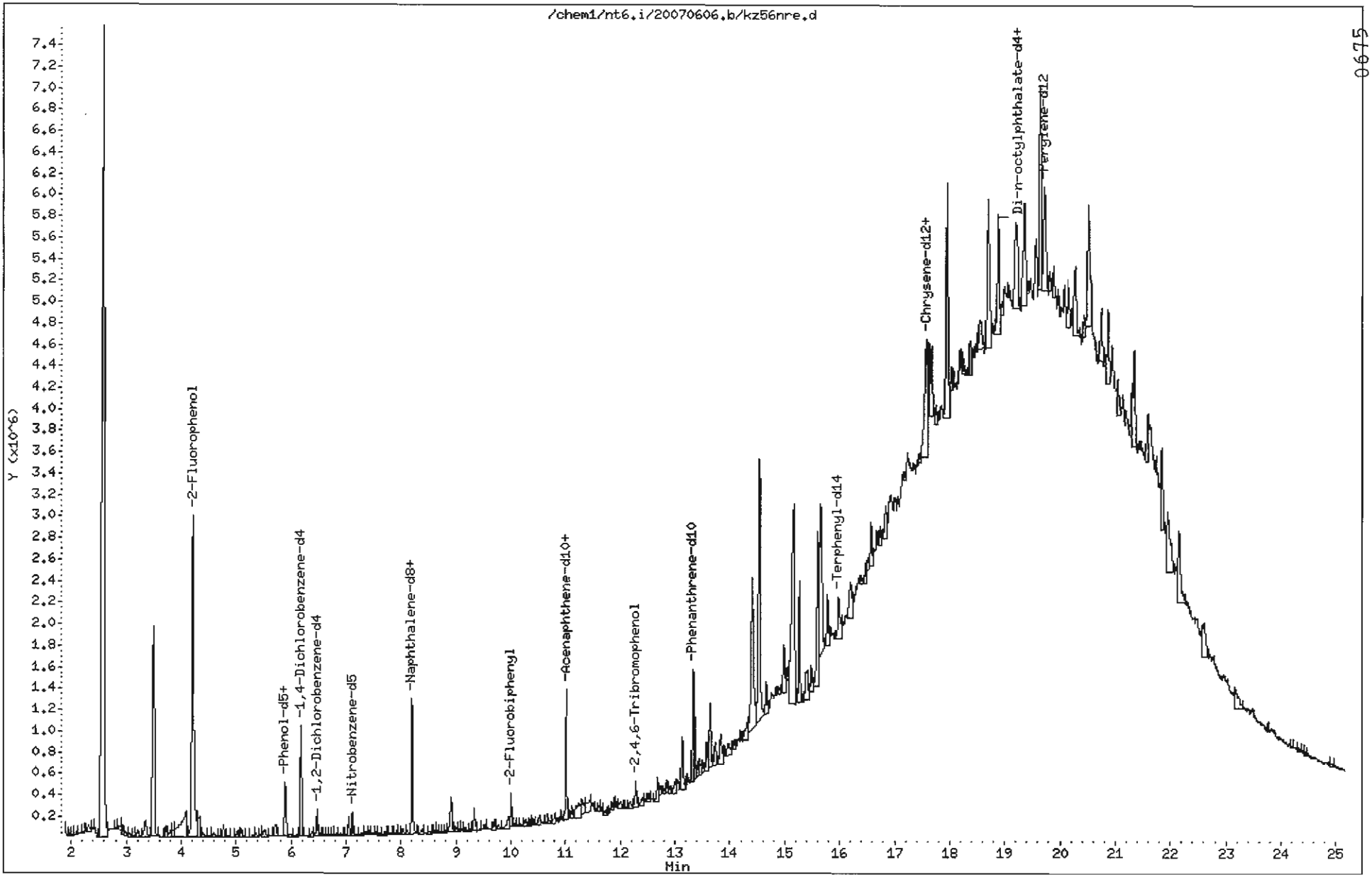
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56NRE
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-9560

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC04-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1344	705.9	52.51	11-84
$ 2 Phenol-d5	1344	785.8	58.46	25-86
$ 5 2-Chlorophenol-d4	1344	789.8	58.75	23-91
$ 10 1,2-Dichlorobenzen	896.2	510.6	56.98	24-90
$ 18 Nitrobenzene-d5	896.2	544.7	60.77	26-88
$ 36 2-Fluorobiphenyl	896.2	537.1	59.93	34-91
$ 55 2,4,6-Tribromophen	1344	893.0	66.43	25-107
$ 66 Terphenyl-d14	896.2	495.5	55.29	22-100

Data File: /chem1/nt6.i/20070606.b/kz56nre.d
Date : 06-JUN-2007 16:26
Client ID: Y3-RC04-S
Sample Info: KZ56NRE,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0675

Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

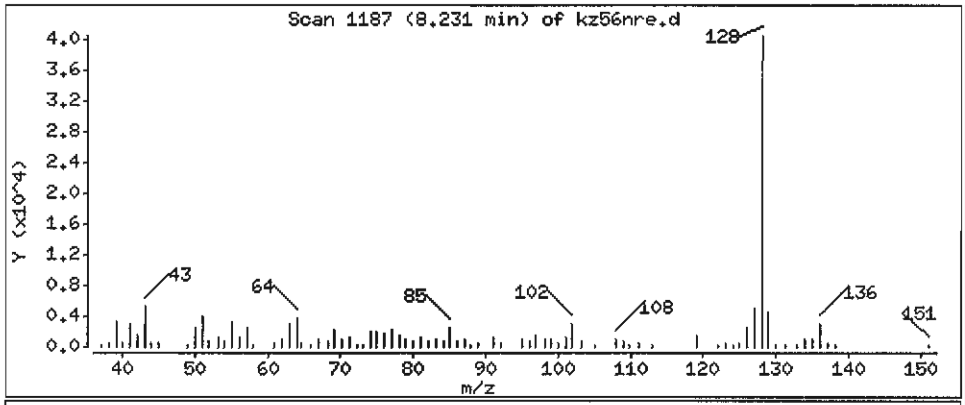
Column phase: ZB-5

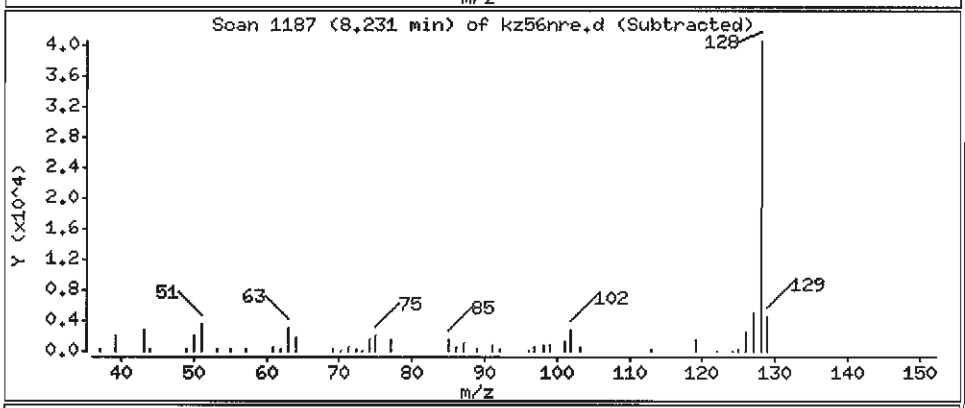
Column diameter: 0.32

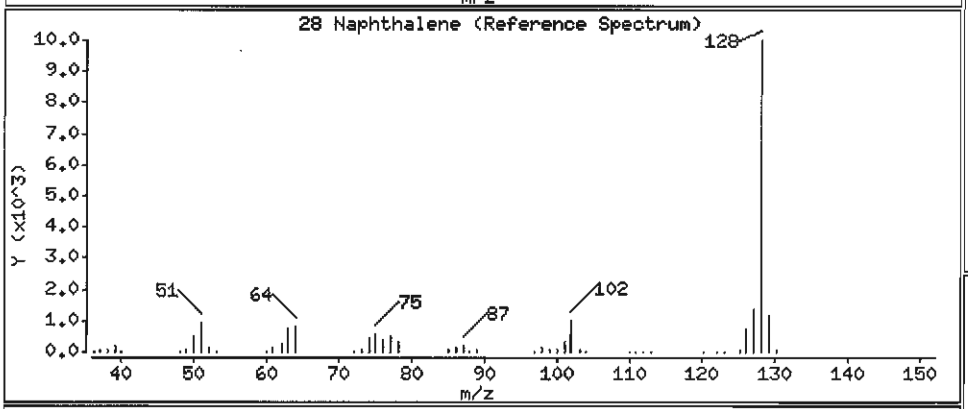
OK 7RL

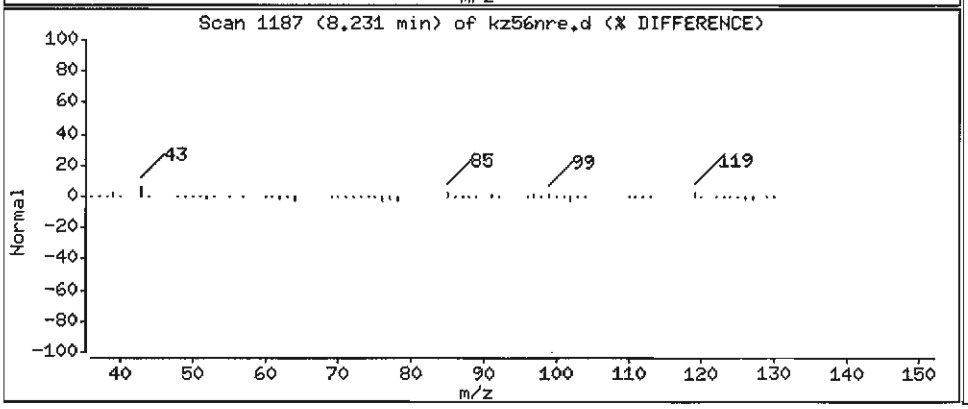
28 Naphthalene

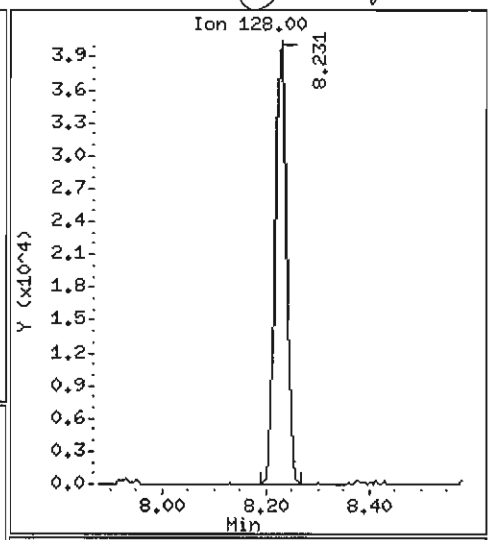
Concentration: 129.8 ug/kg

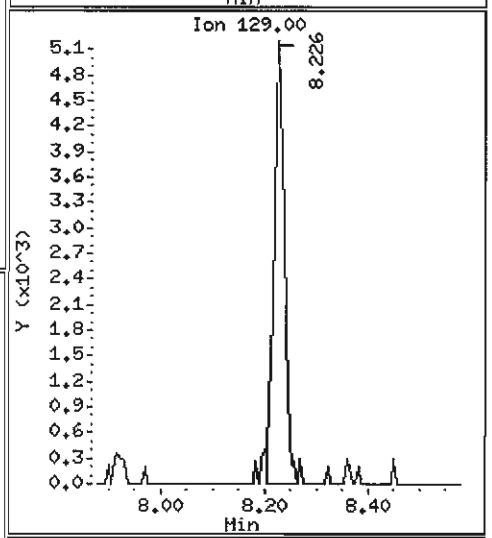


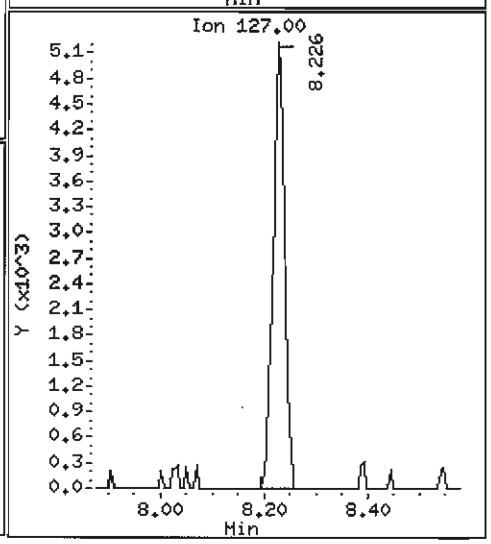












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

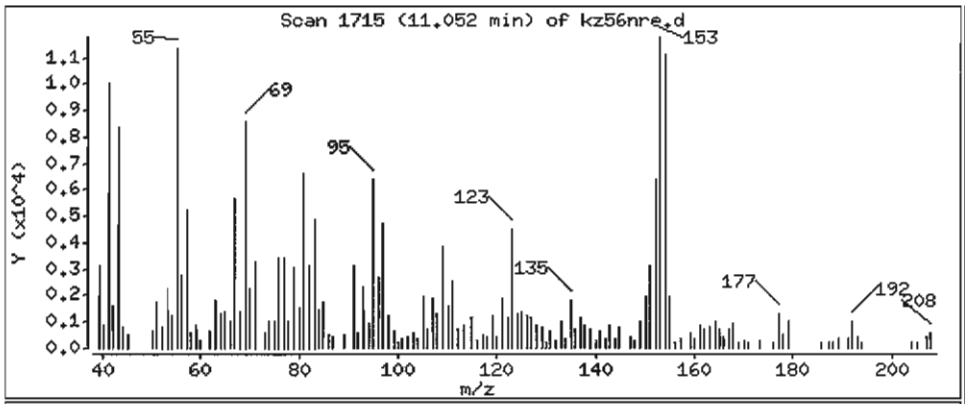
Column phase: ZB-5

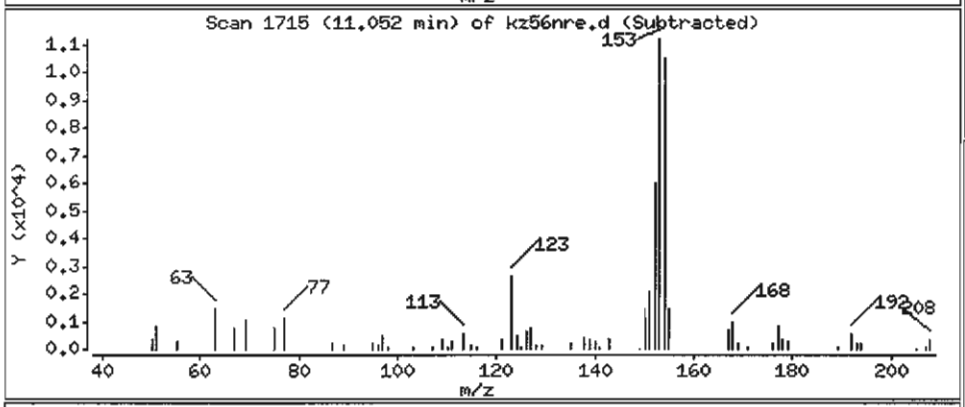
Column diameter: 0.32

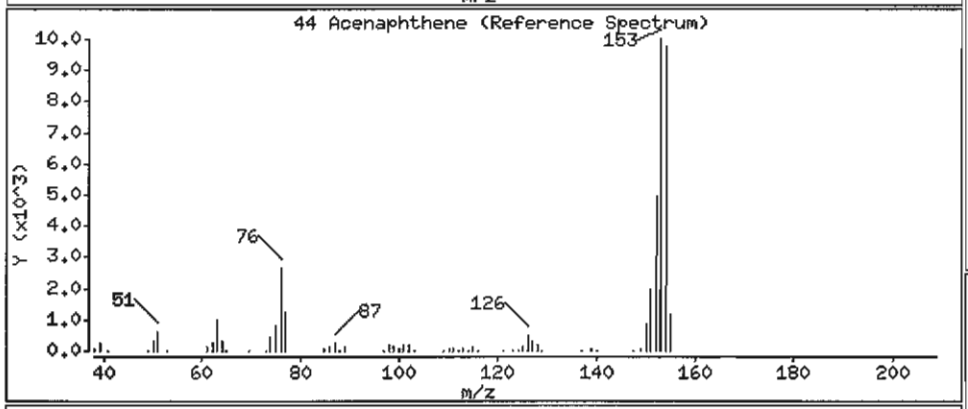
(J) LR

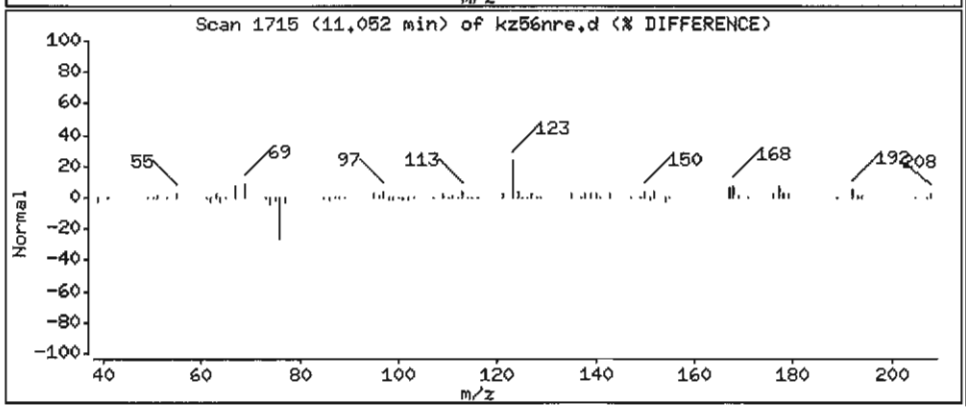
44 Acenaphthene

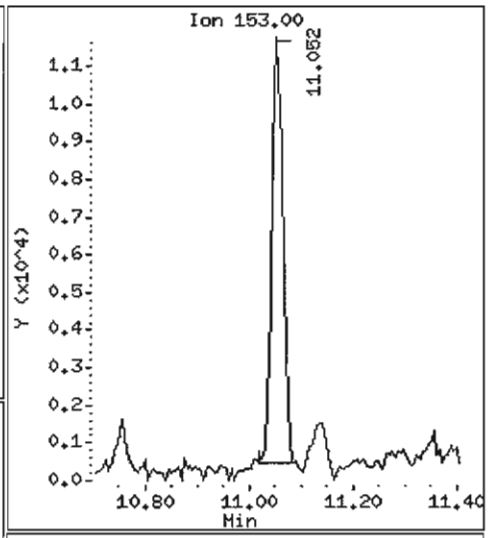
Concentration: 61.81 ug/kg

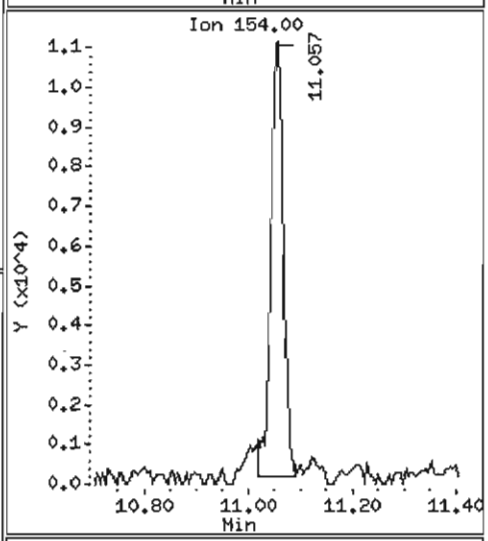


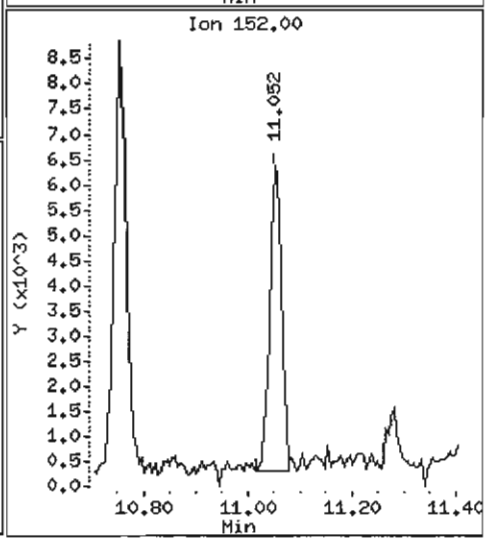












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

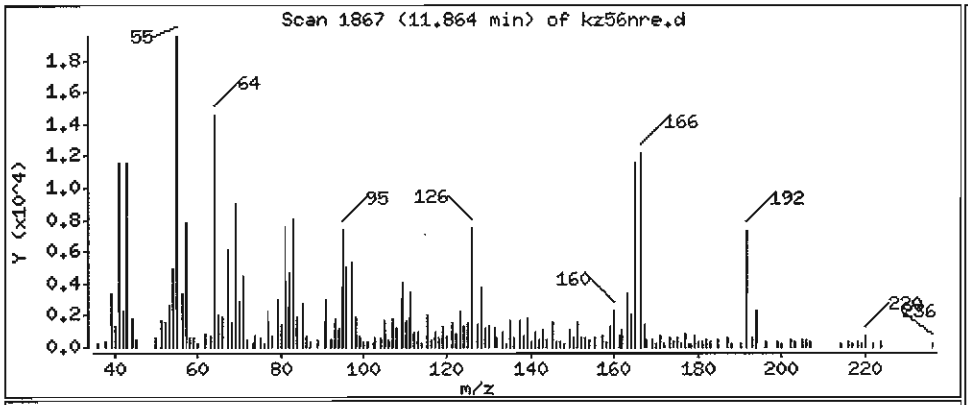
Operator: LJR/VTS

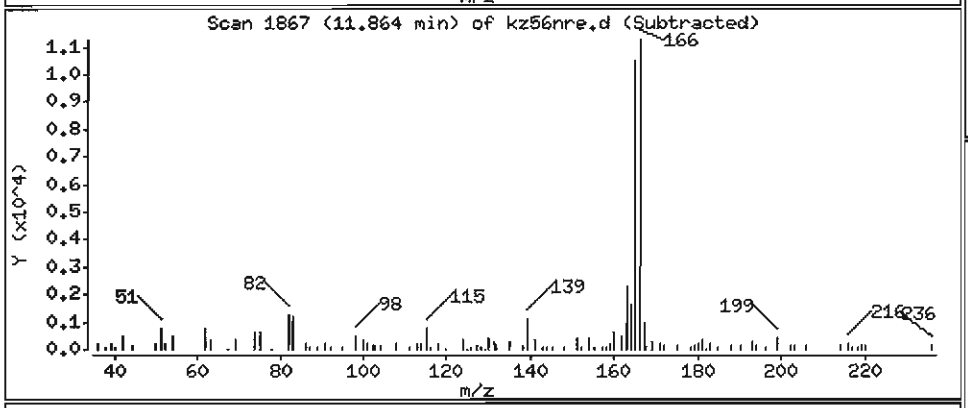
Column phase: ZB-5

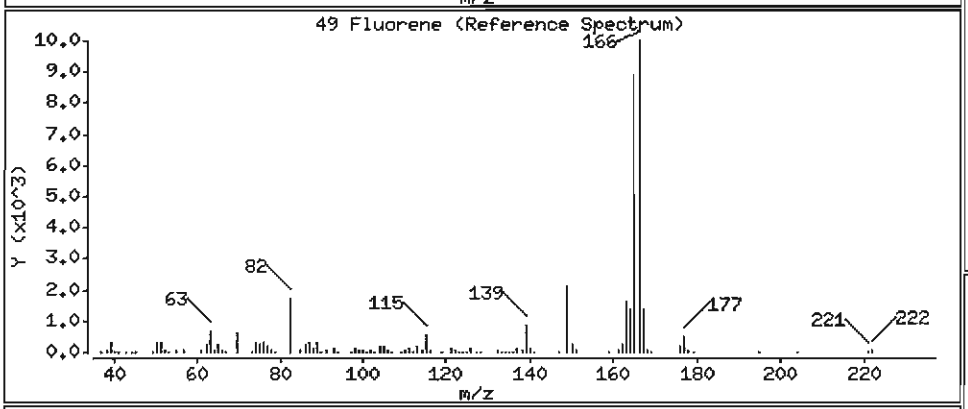
Column diameter: 0.32

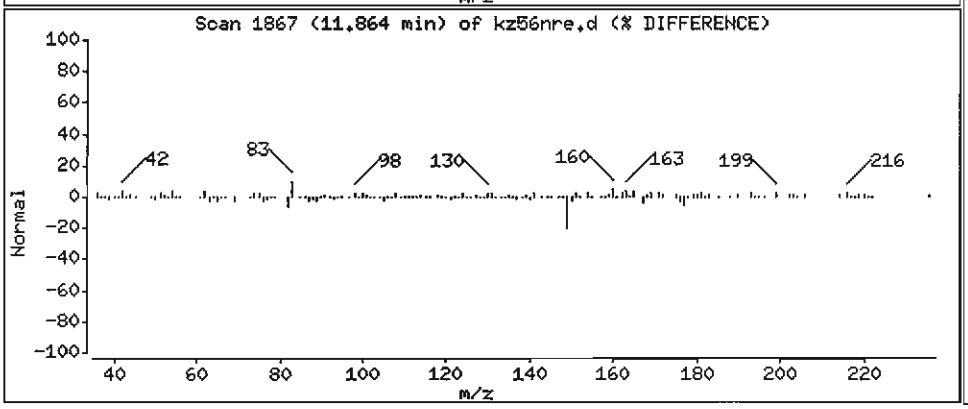
49 Fluorene

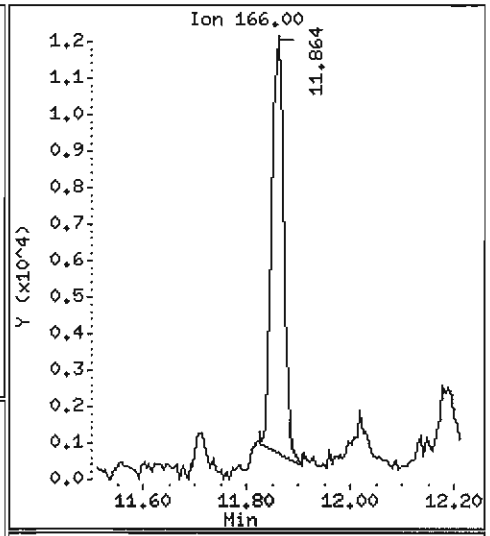
Concentration: 63.70 ug/kg

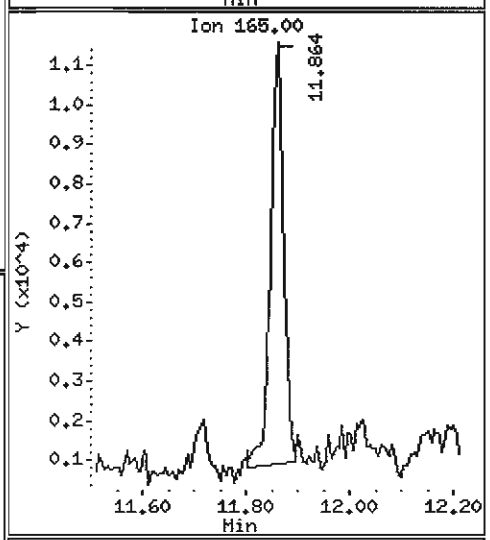


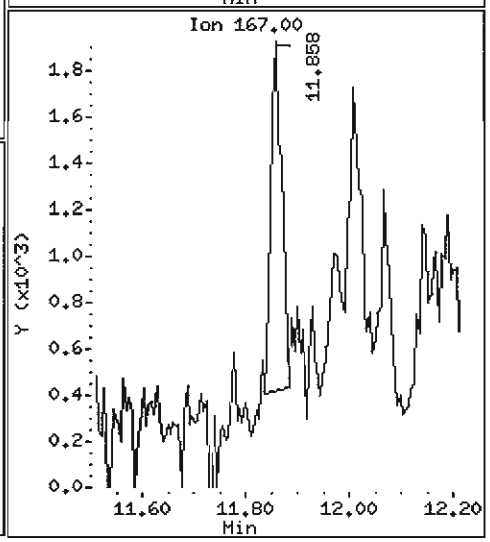












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

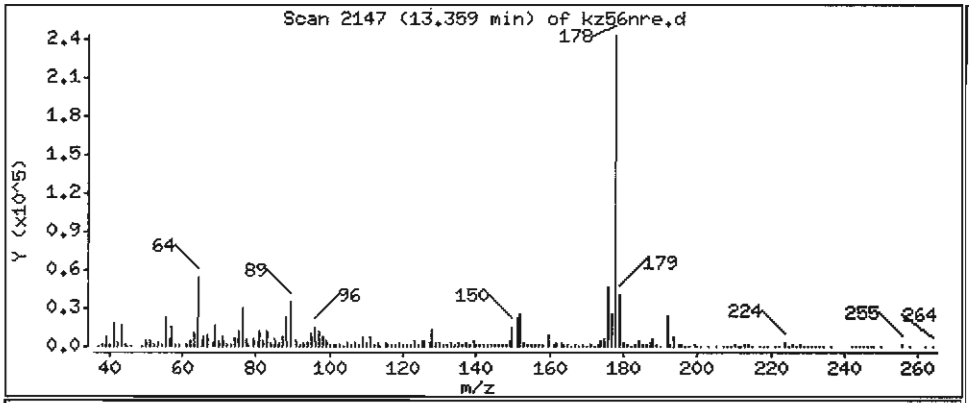
Operator: LJR/VTS

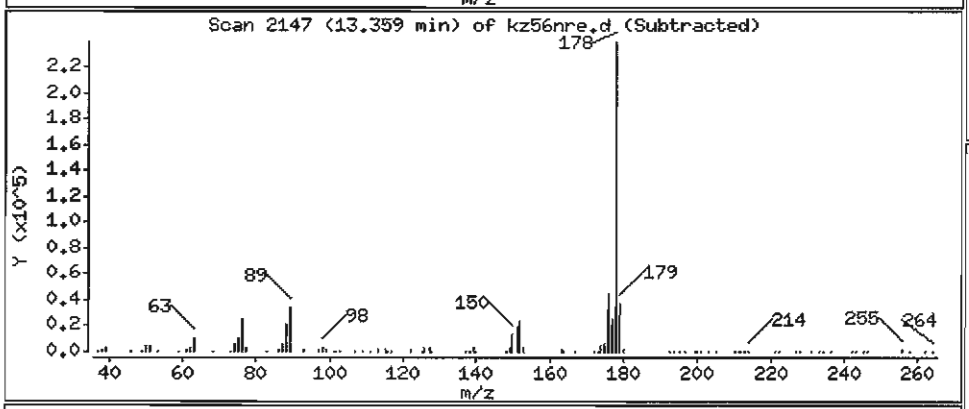
Column phase: ZB-5

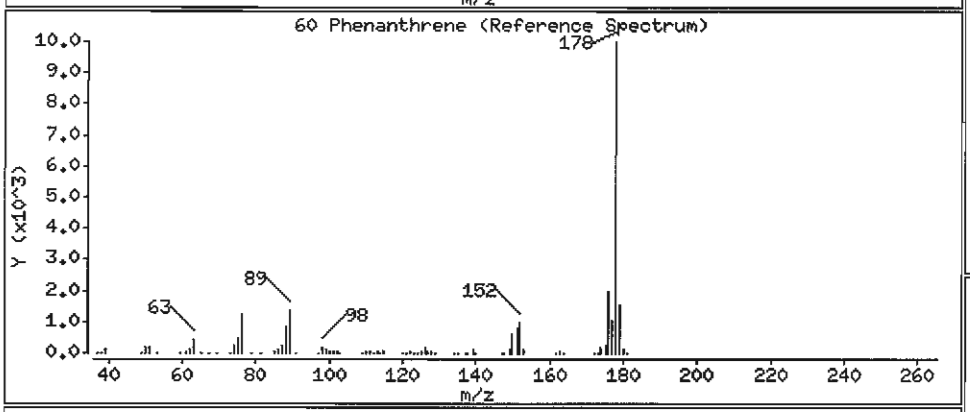
Column diameter: 0.32

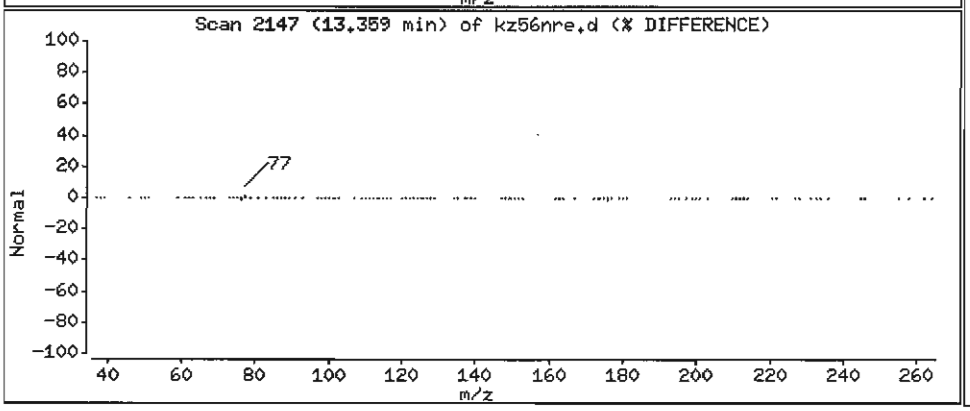
60 Phenanthrene

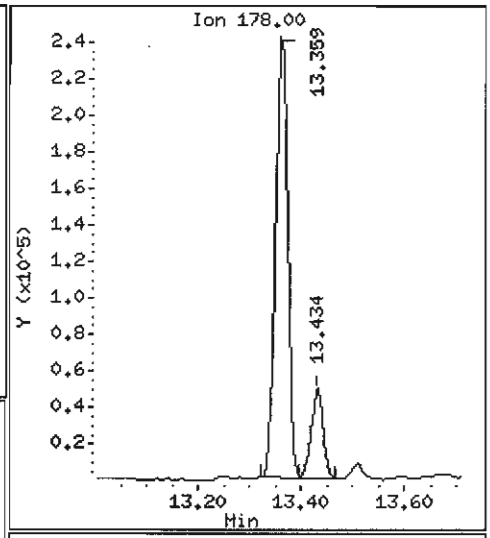
Concentration: 932.7 ug/kg

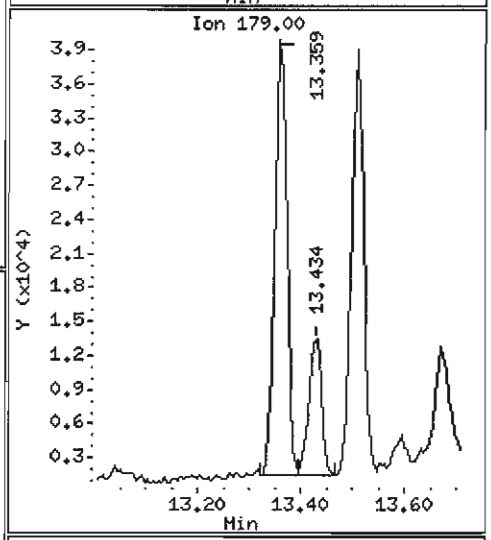


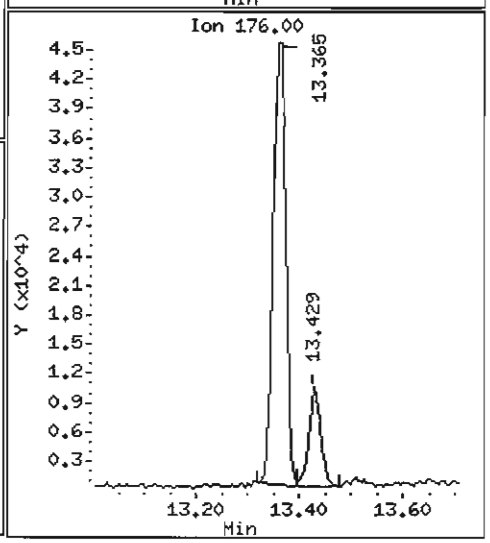












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

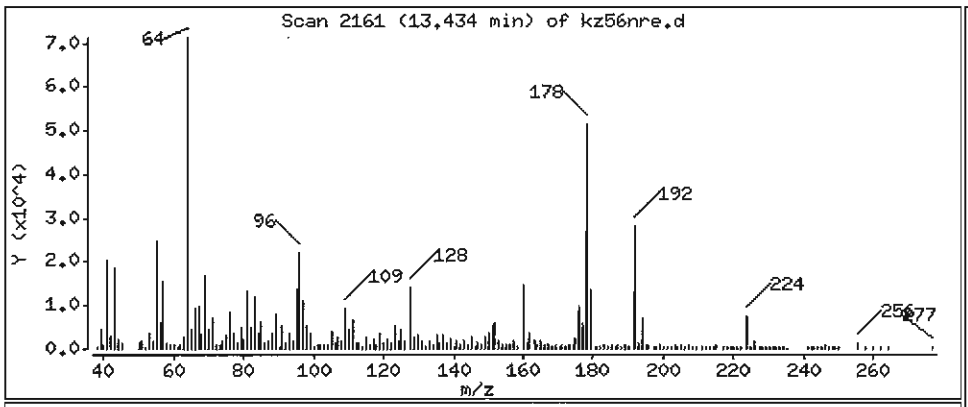
Operator: LJR/VTS

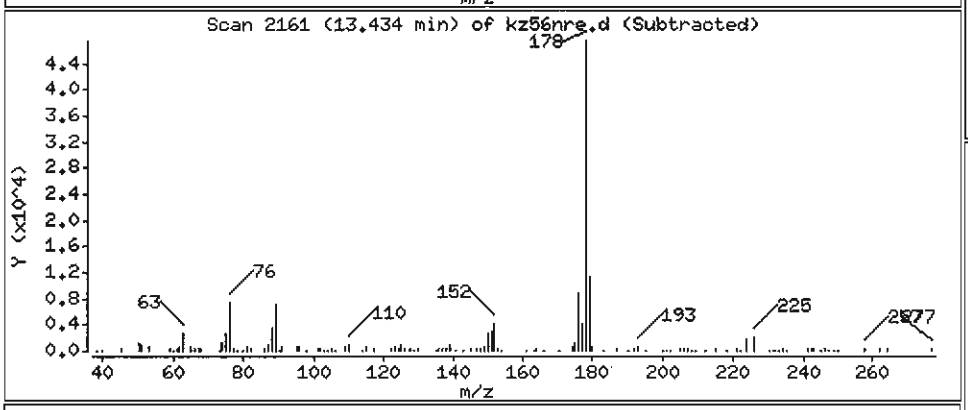
Column phase: ZB-5

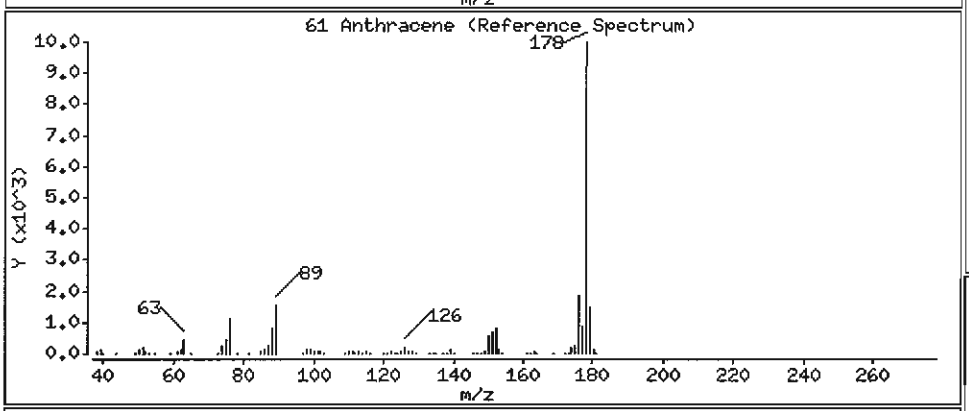
Column diameter: 0.32

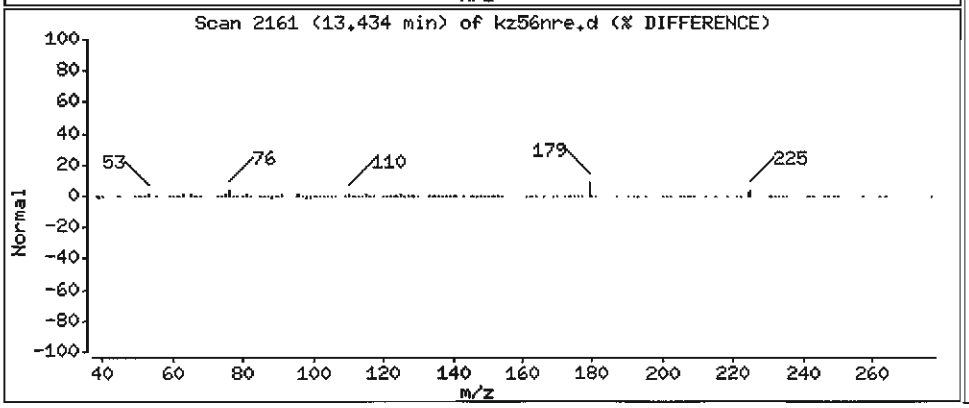
61 Anthracene

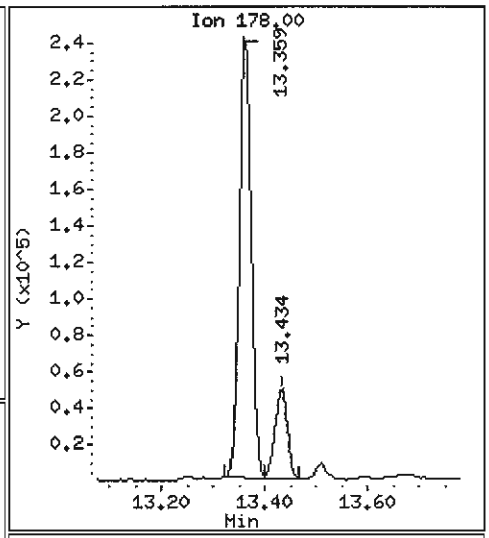
Concentration: 190.4 ug/kg

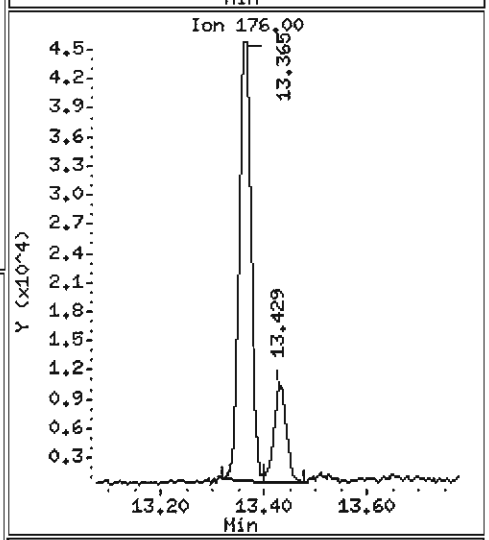


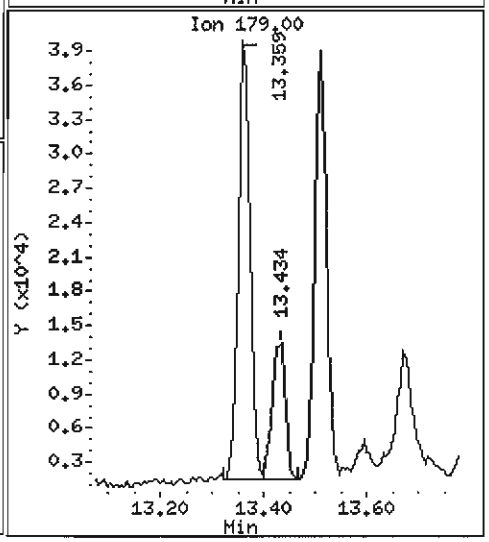












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

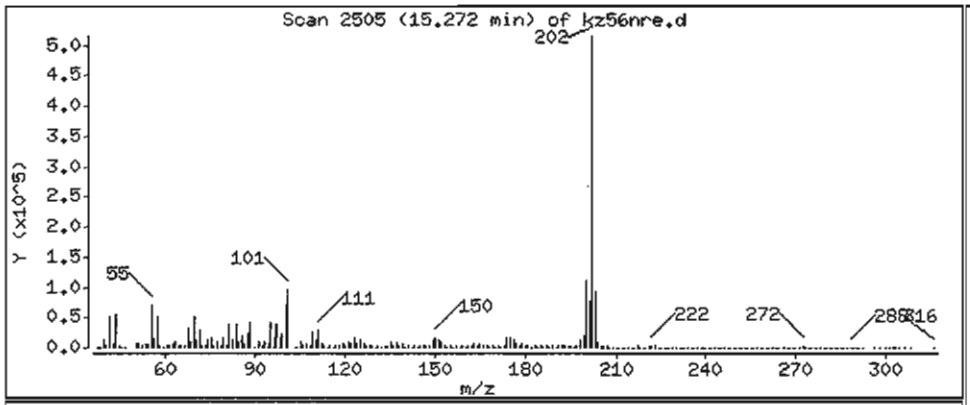
Operator: LJR/VTS

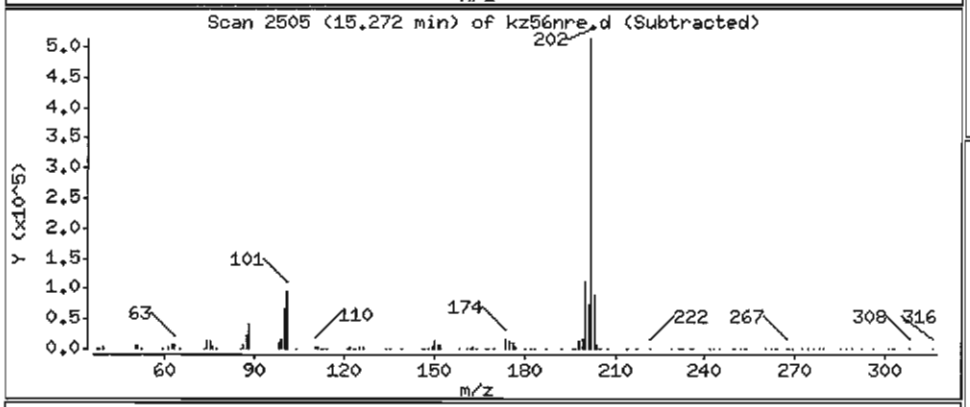
Column phase: ZB-5

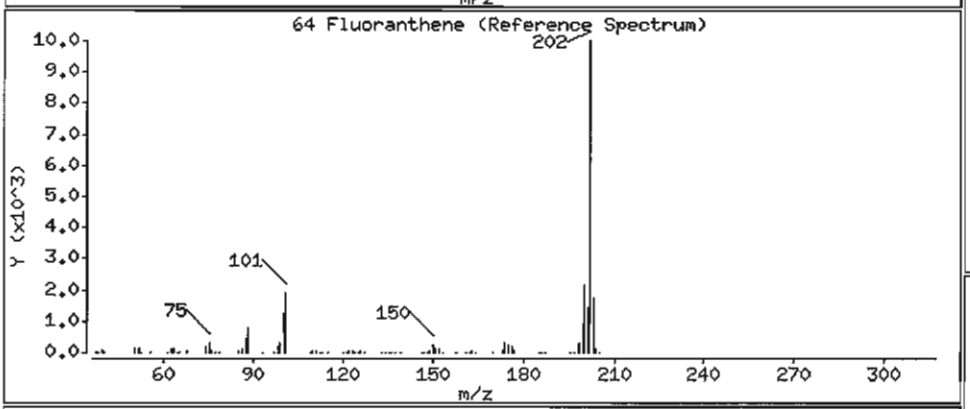
Column diameter: 0.32

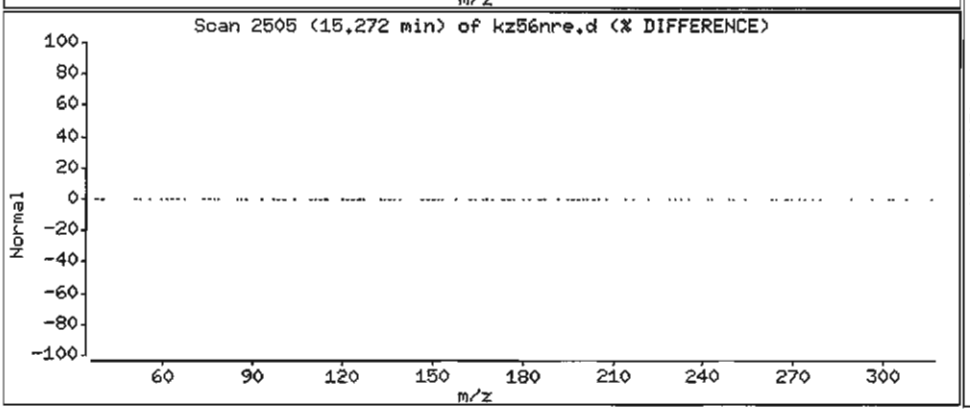
64 Fluoranthene

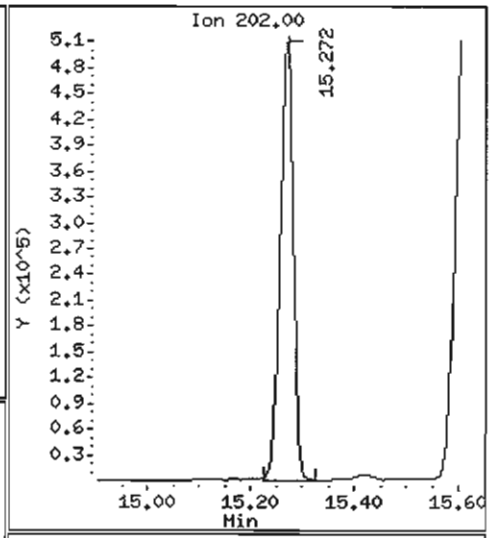
Concentration: 2290 ug/kg

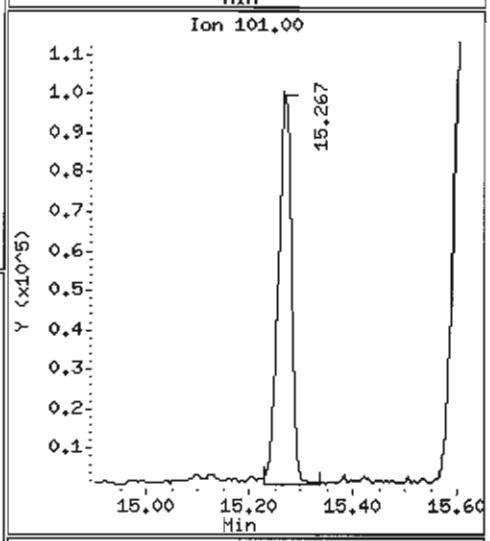


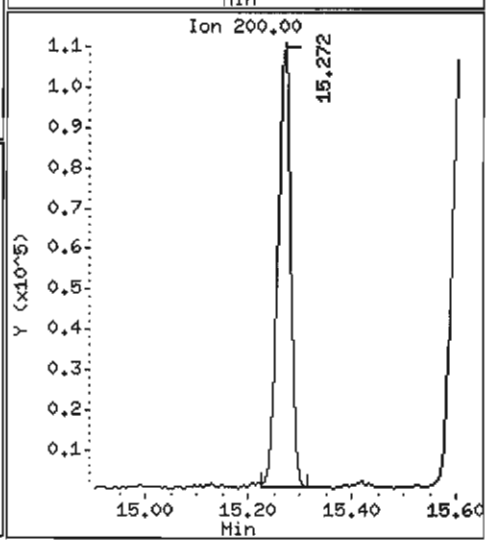












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

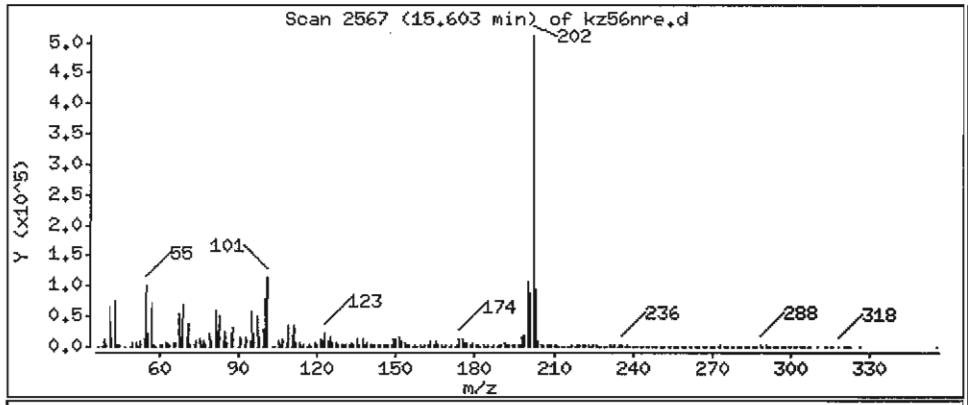
Operator: LJR/VTS

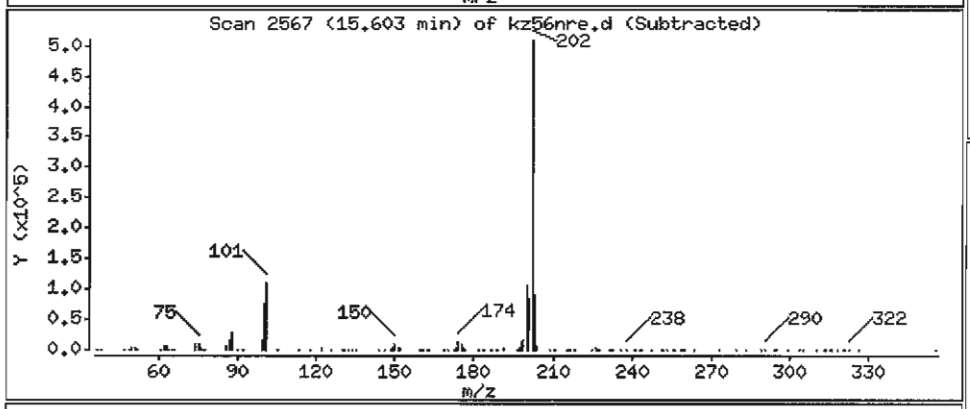
Column phase: ZB-5

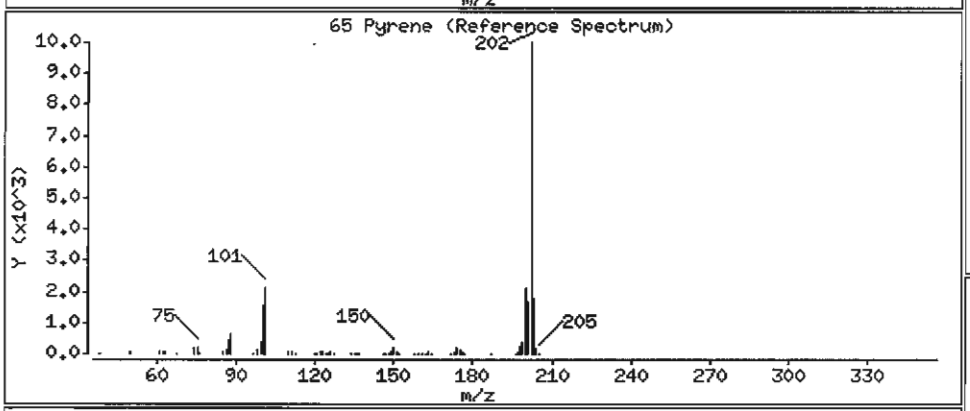
Column diameter: 0.32

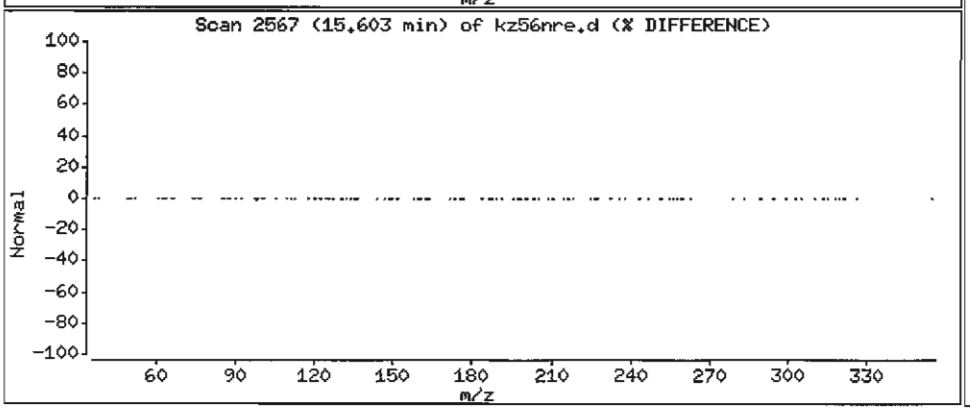
65 Pyrene

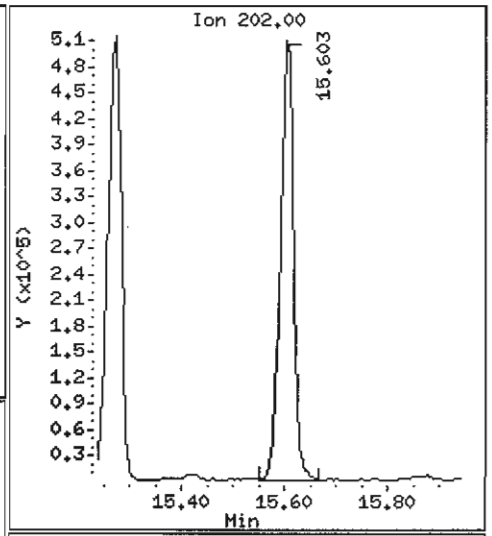
Concentration: 1978 ug/kg

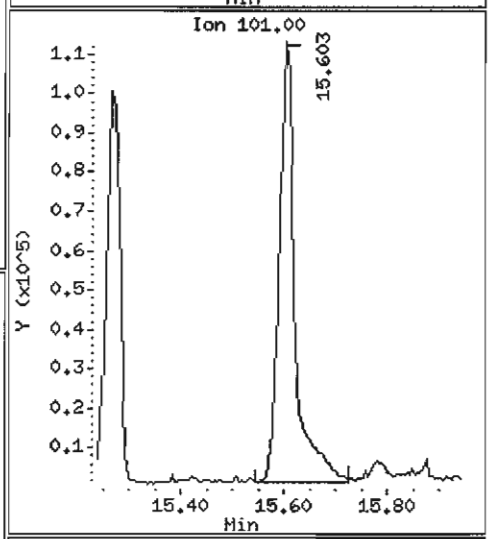


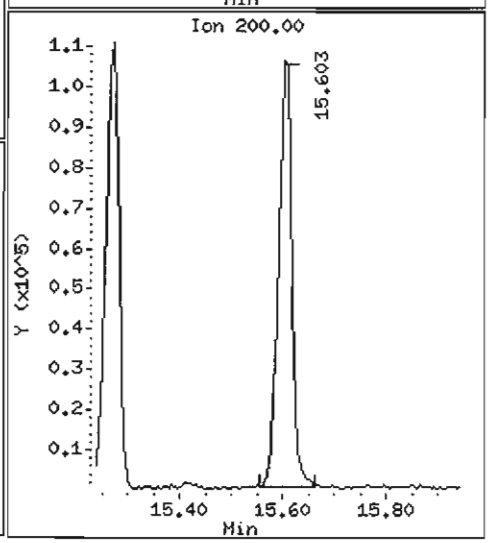












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

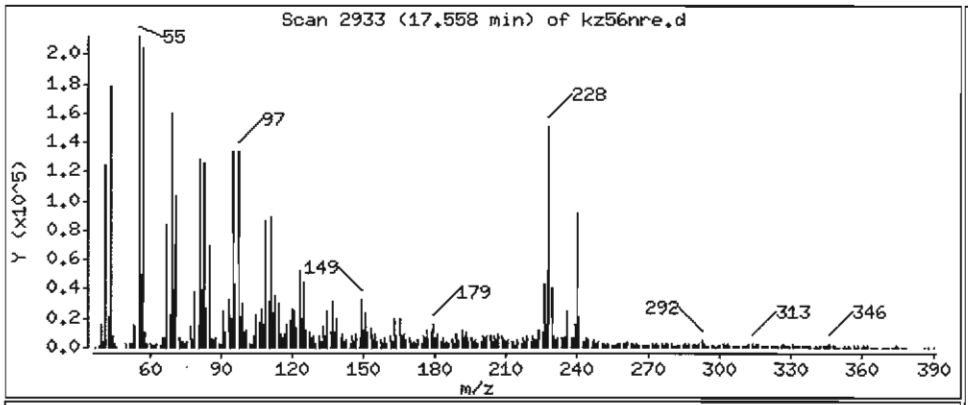
Operator: LJR/VTS

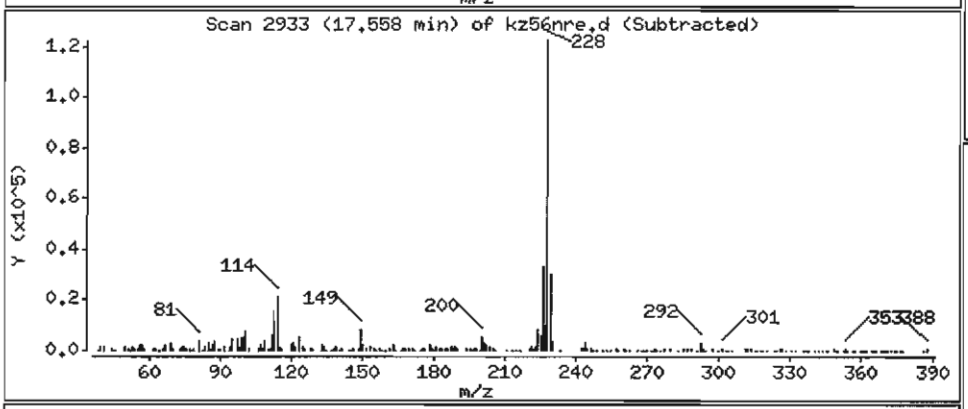
Column phase: ZB-5

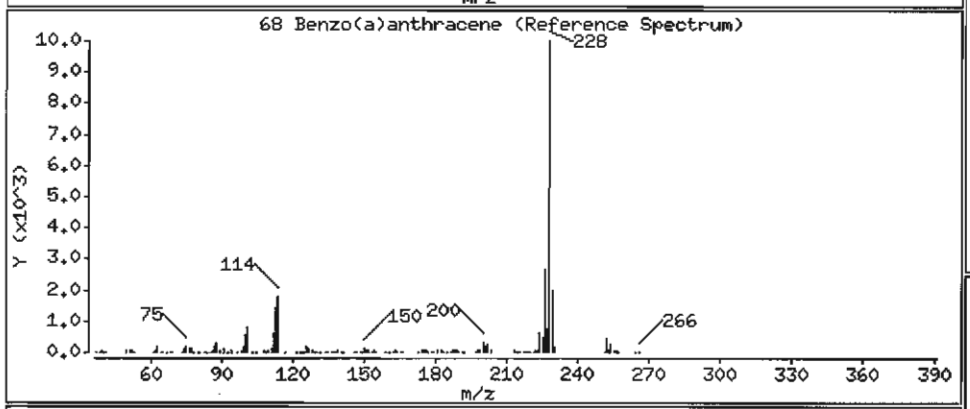
Column diameter: 0.32

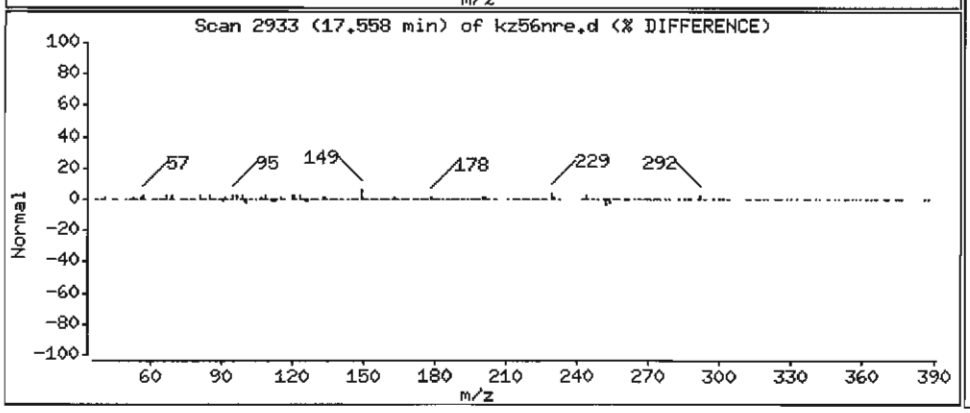
68 Benzo(a)anthracene

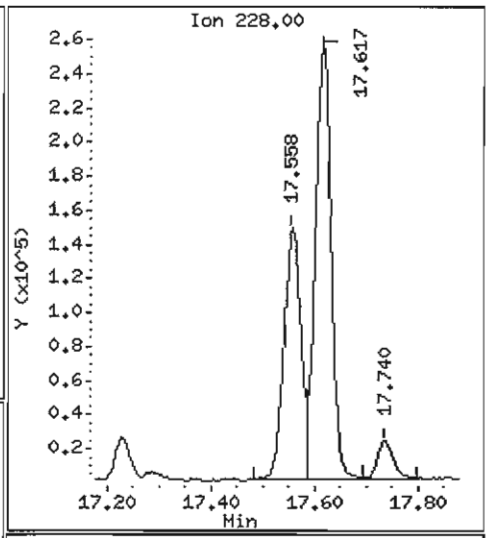
Concentration: 839.2 ug/kg

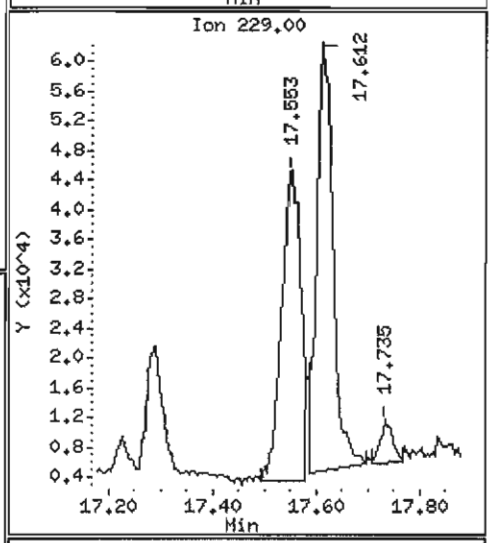


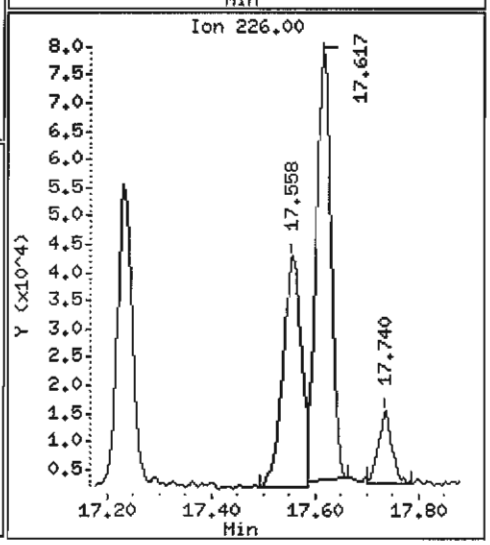












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

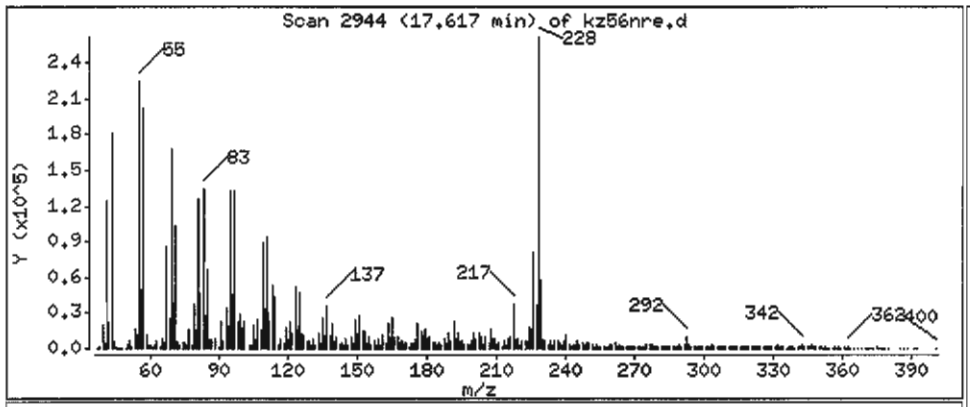
Operator: LJR/VTS

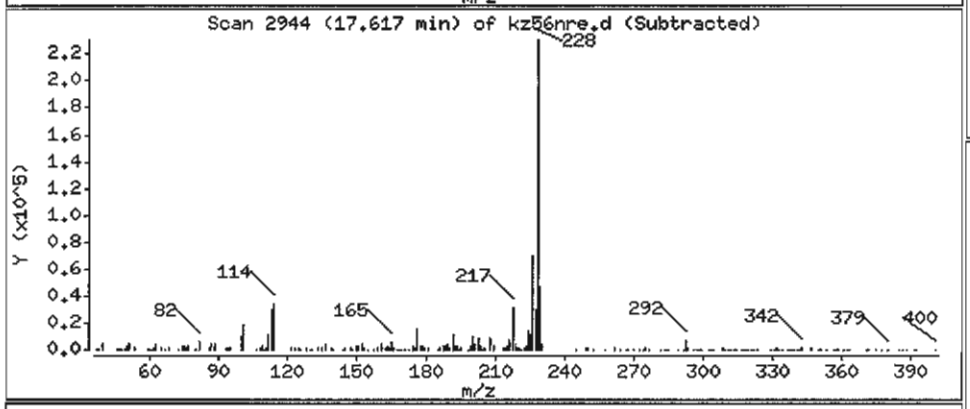
Column phase: ZB-5

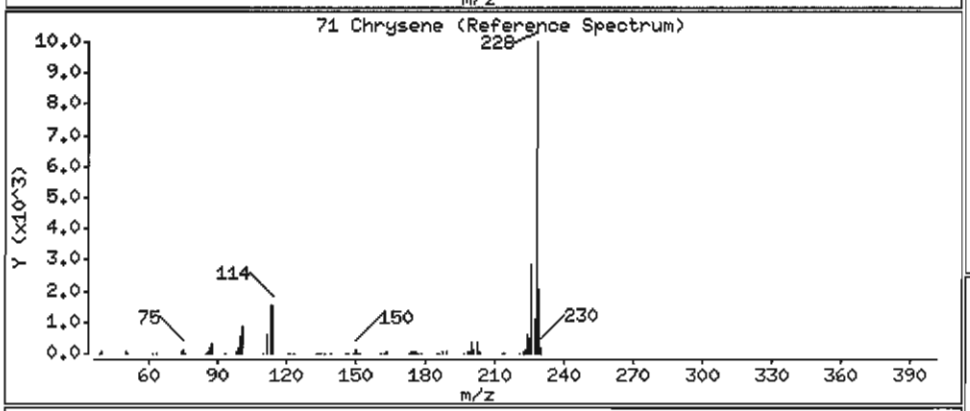
Column diameter: 0.32

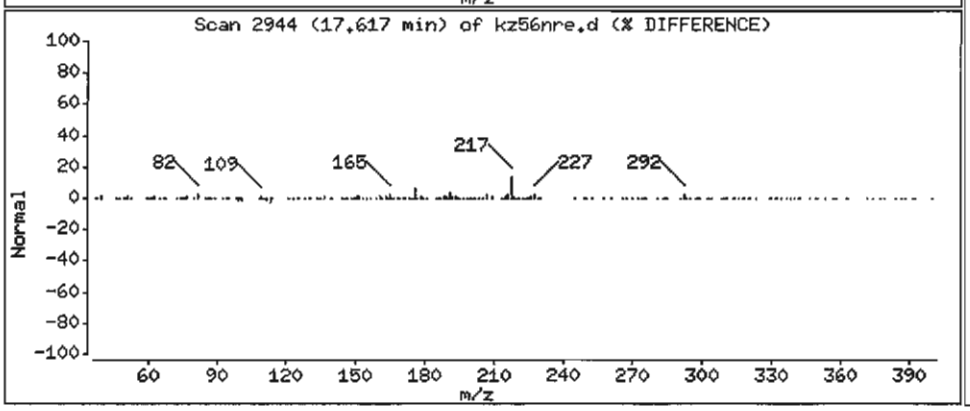
71 Chrysene

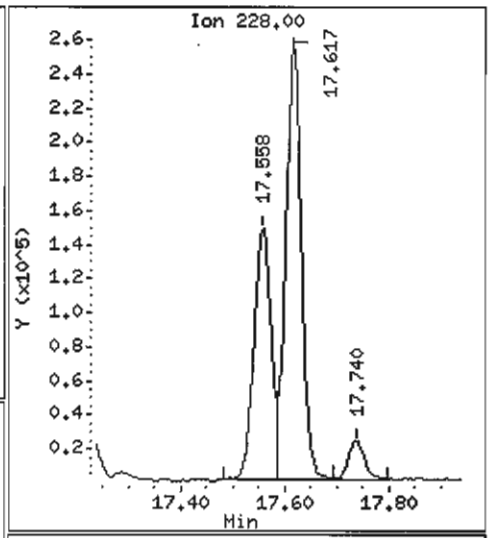
Concentration: 1302 ug/kg

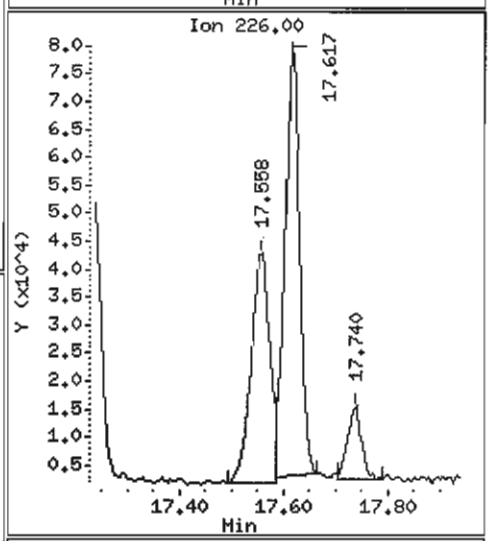


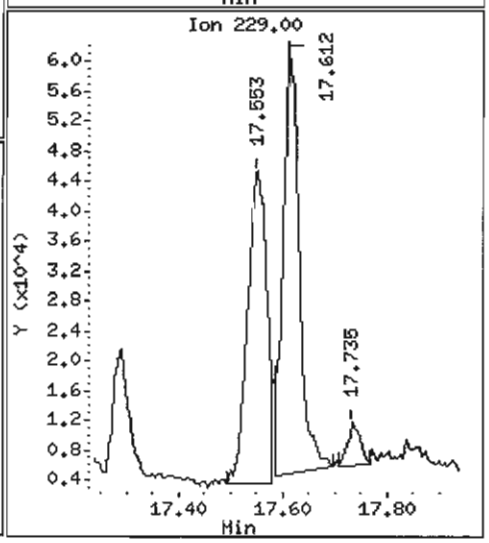












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

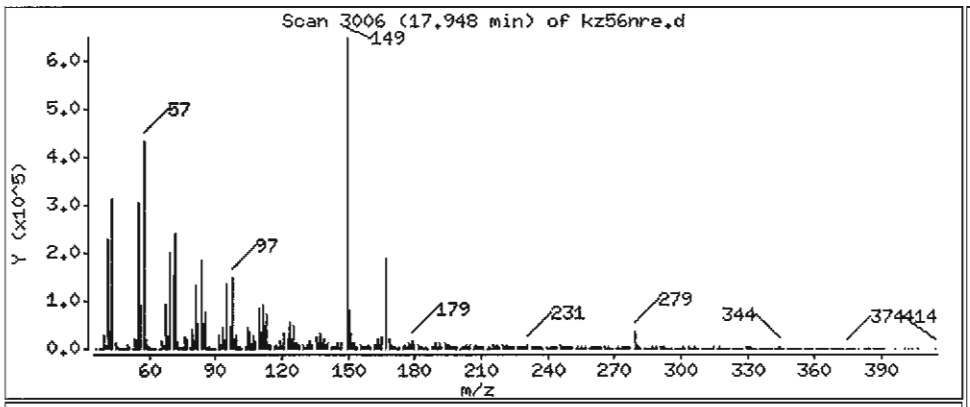
Operator: LJR/VTS

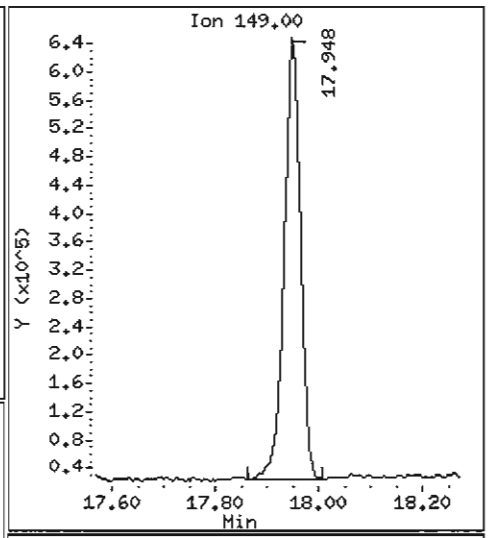
Column phase: ZB-5

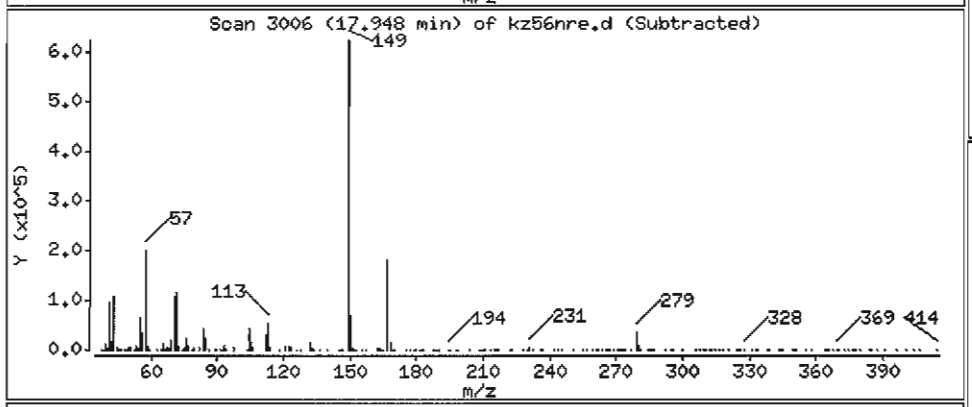
Column diameter: 0.32

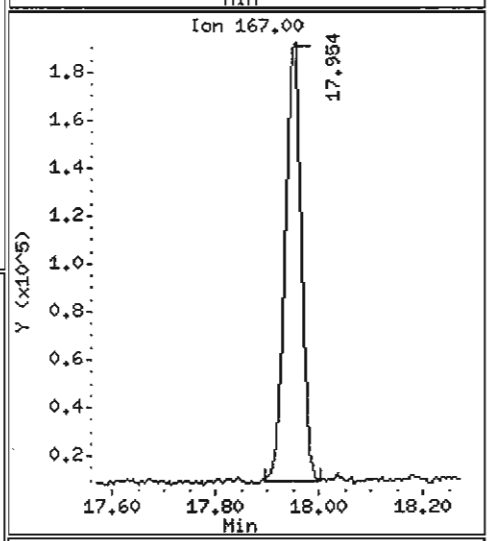
72 bis(2-Ethylhexyl)phthalate

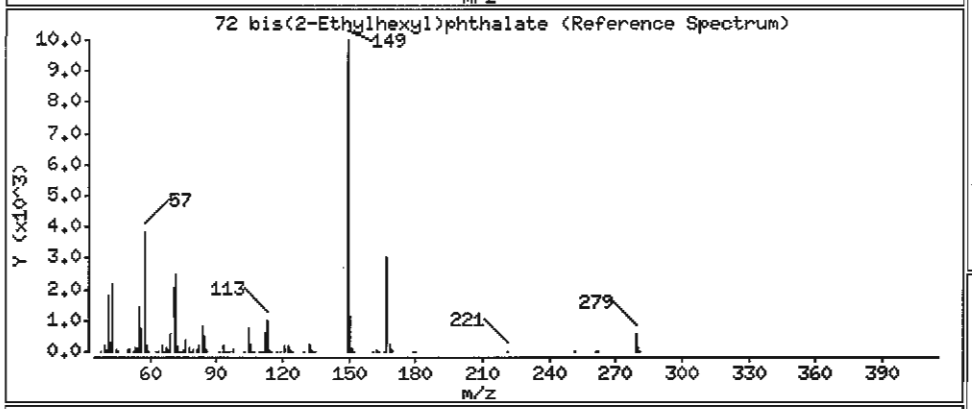
Concentration: 4746 ug/kg

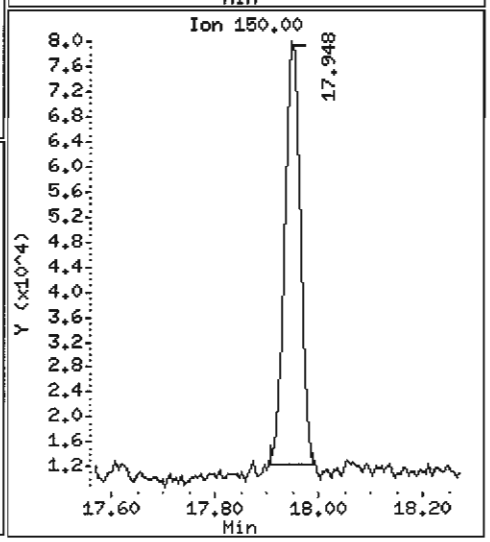


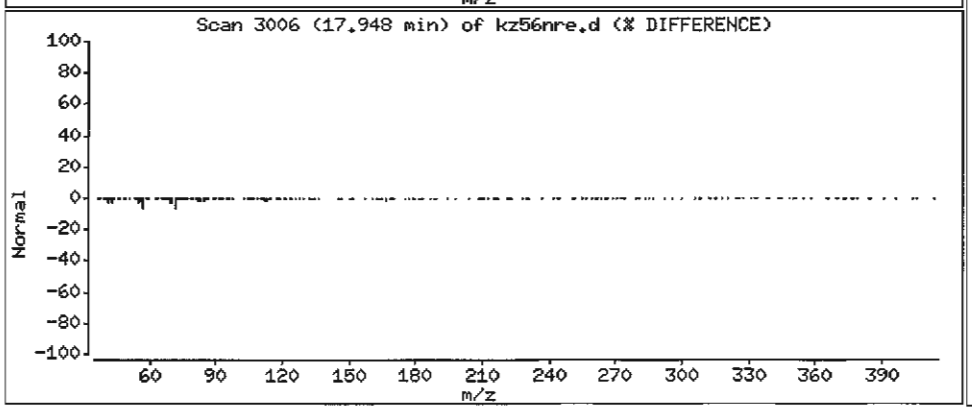












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

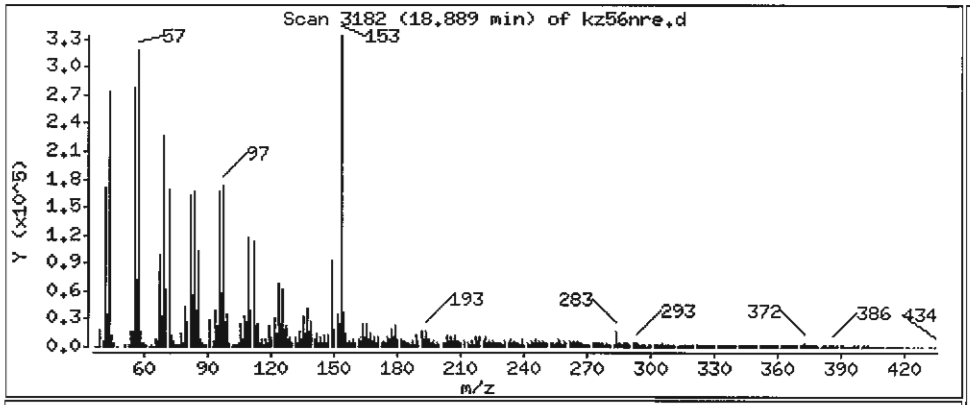
Operator: LJR/VTS

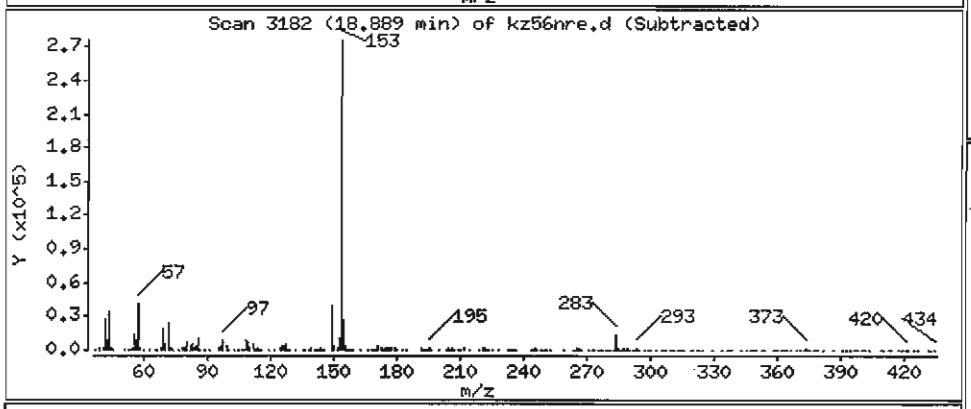
Column phase: ZB-5

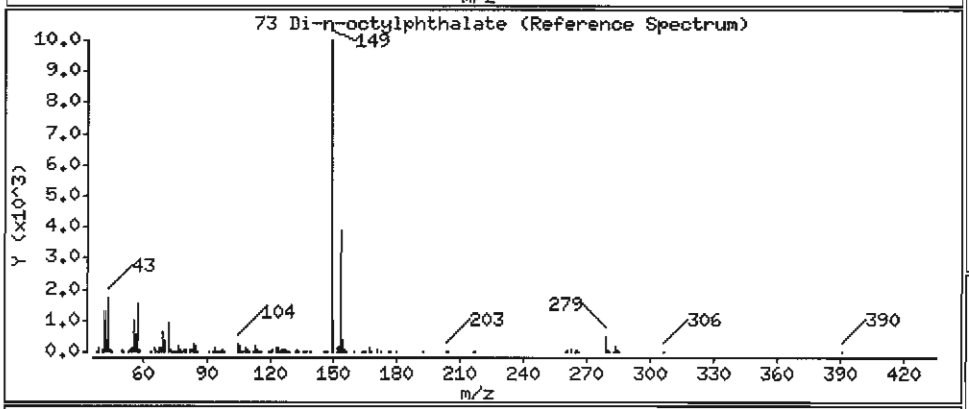
Column diameter: 0.32

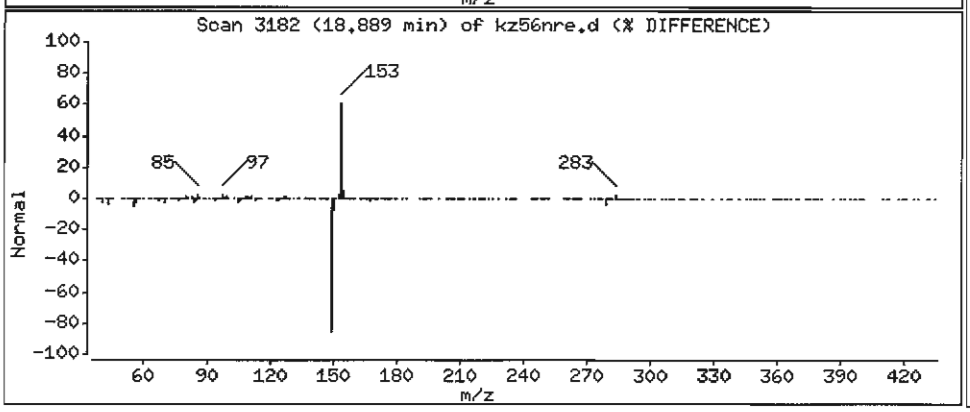
73 Di-n-octylphthalate

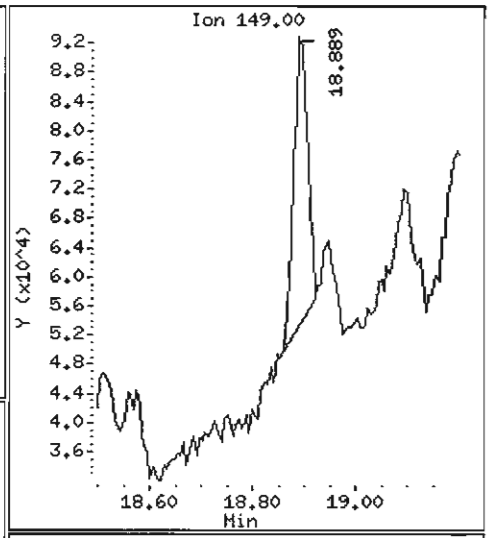
Concentration: 143.7 ug/kg

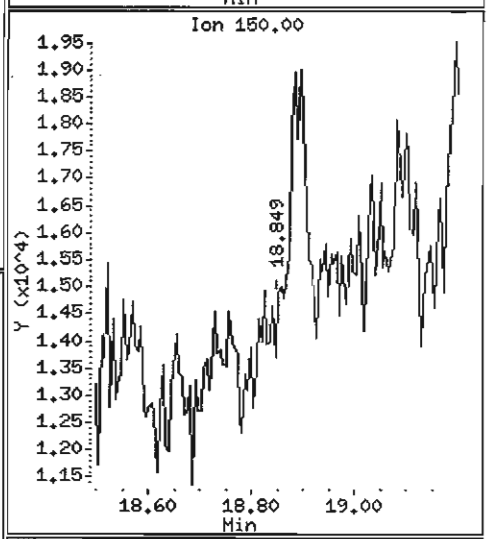


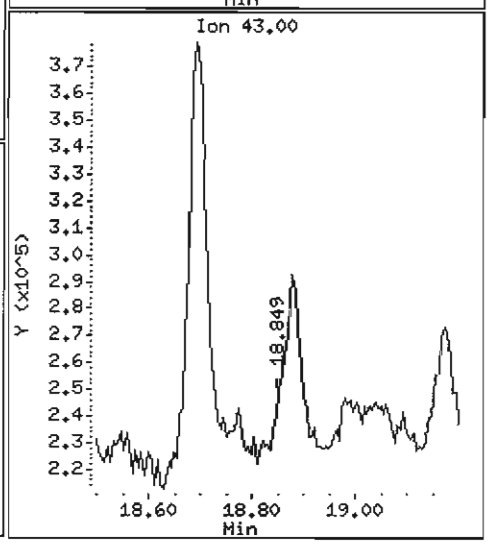












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

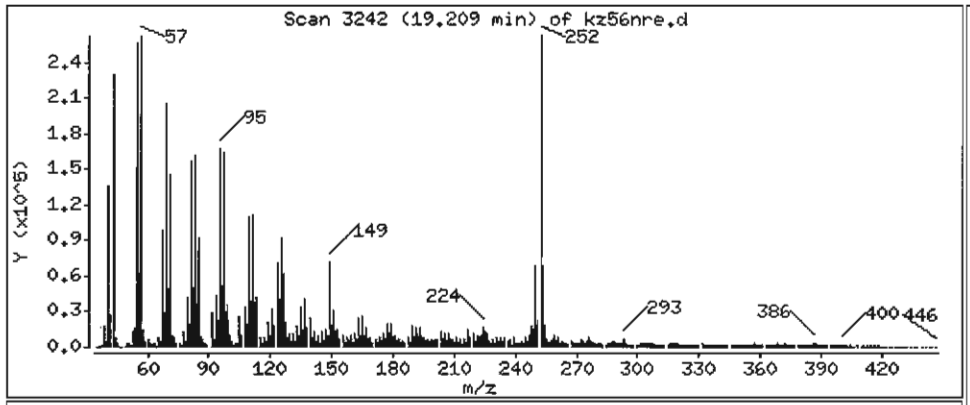
Operator: LJR/VTS

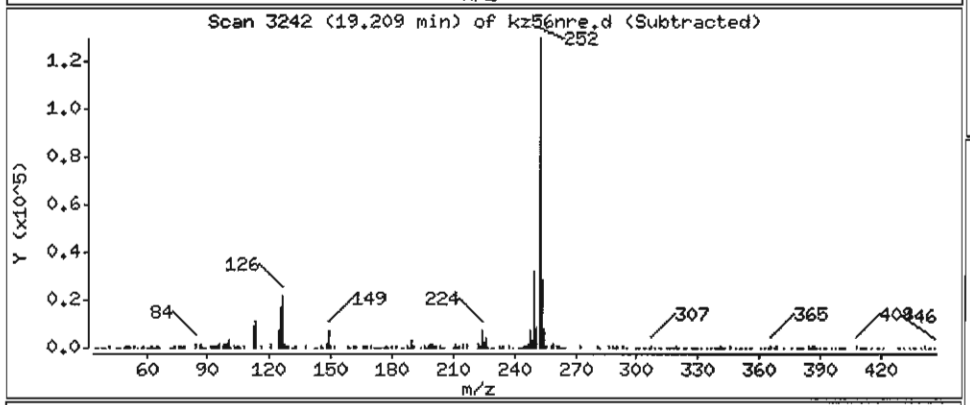
Column phase: ZB-5

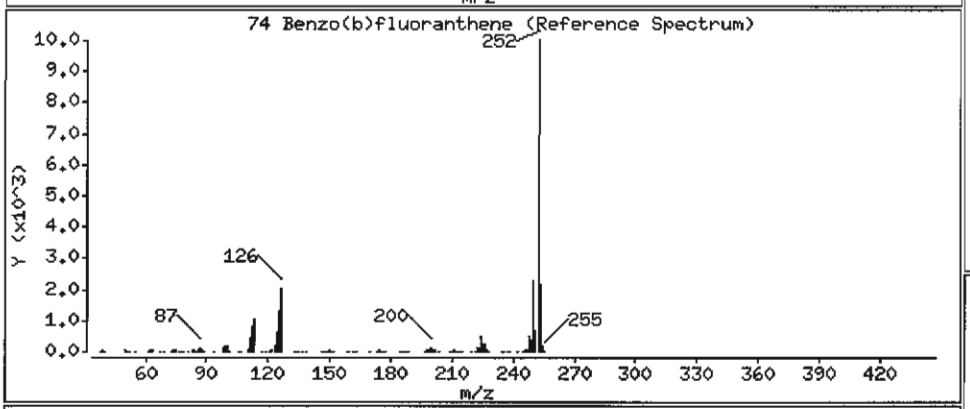
Column diameter: 0.32

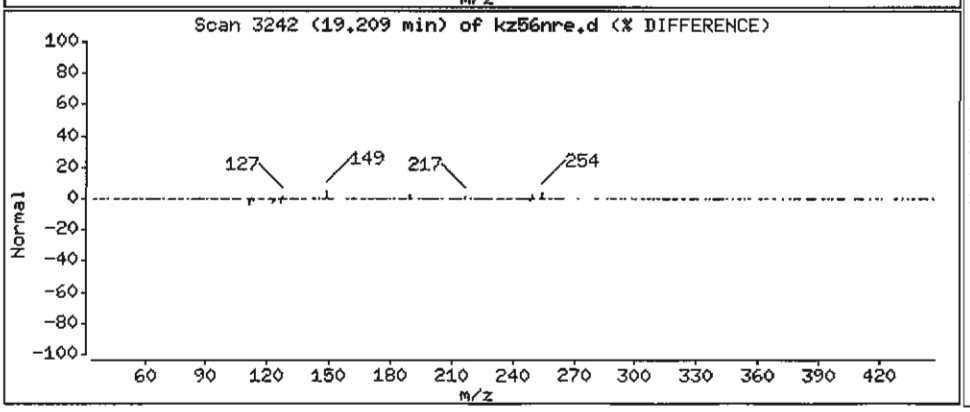
74 Benzo(b)fluoranthene

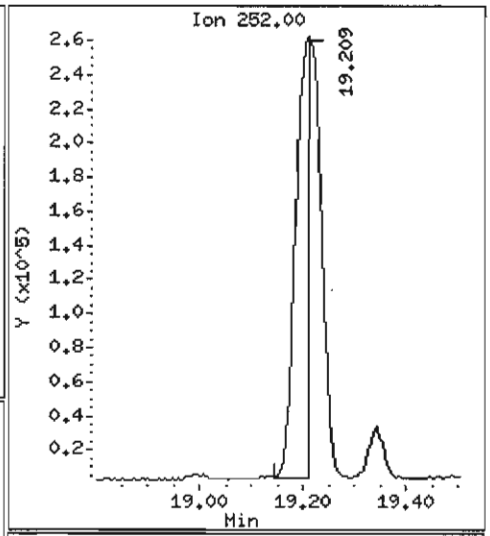
Concentration: 1324 ug/kg

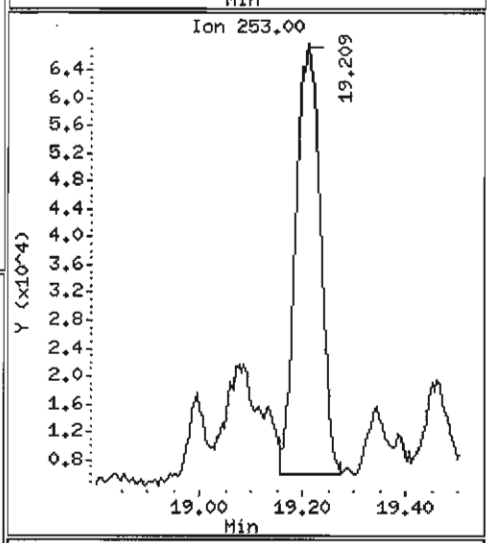


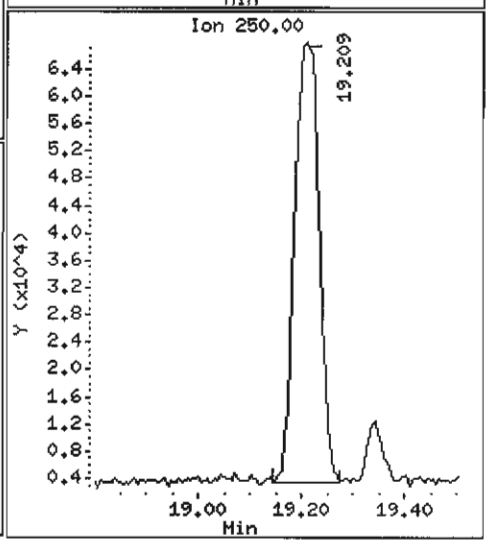












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

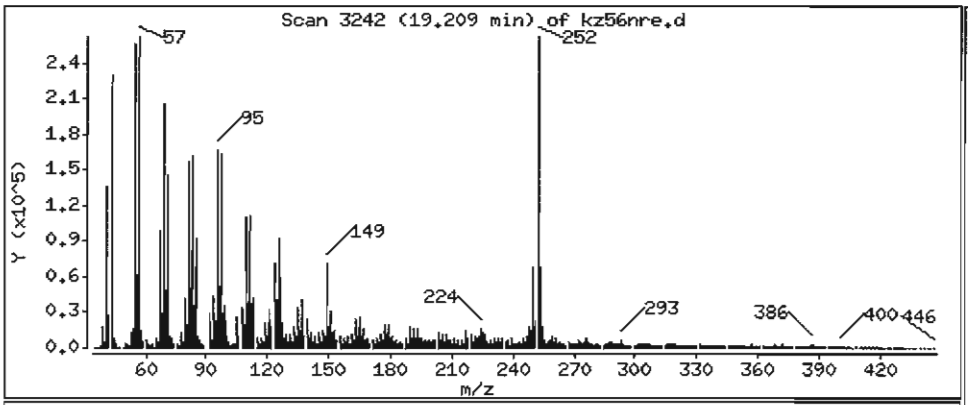
Operator: LJR/VTS

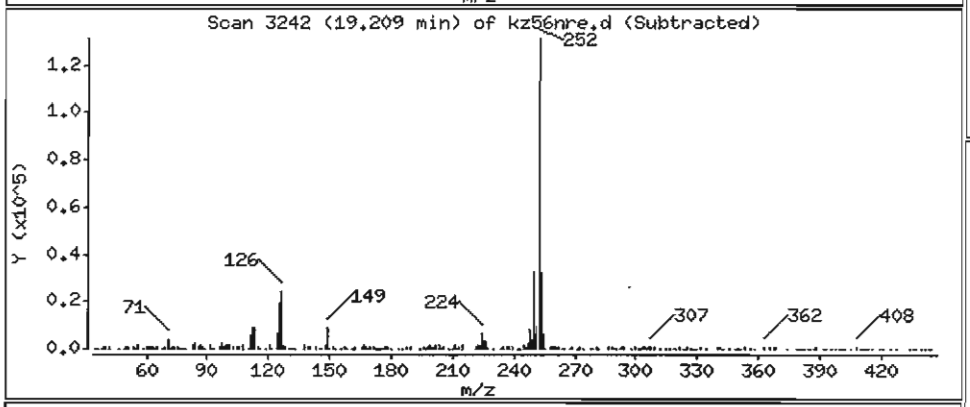
Column phase: ZB-5

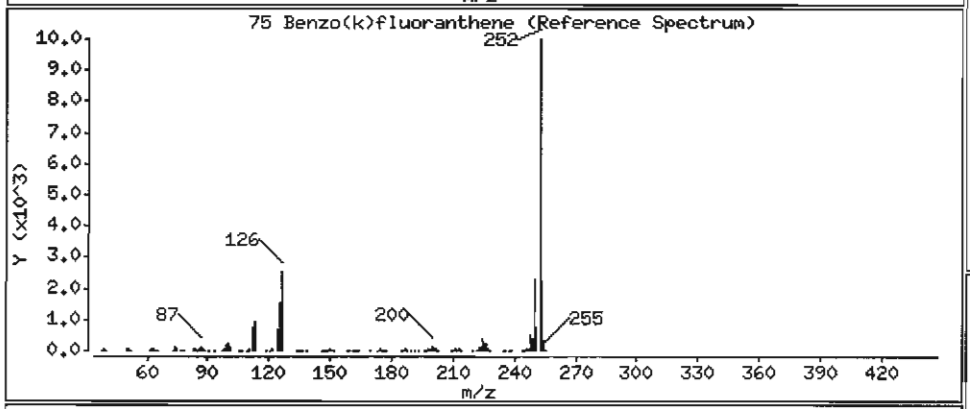
Column diameter: 0.32

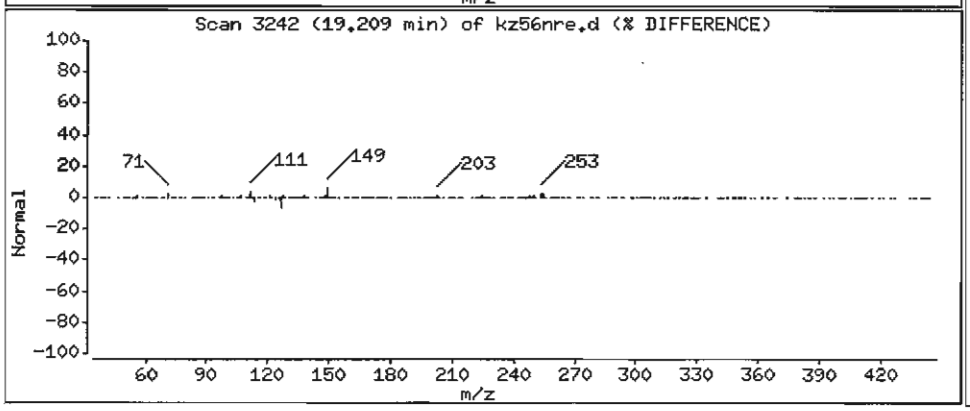
75 Benzo(k)fluoranthene

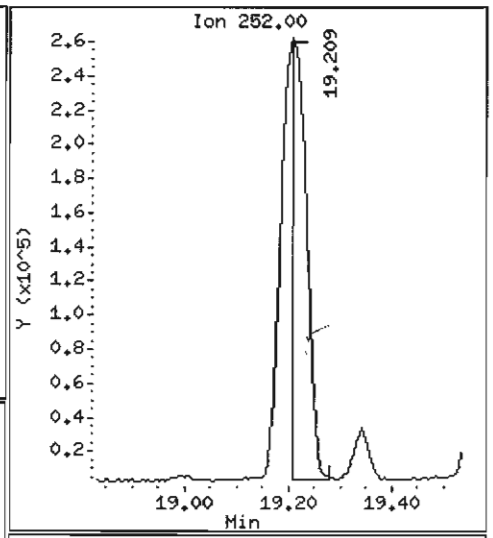
Concentration: 1483 ug/kg

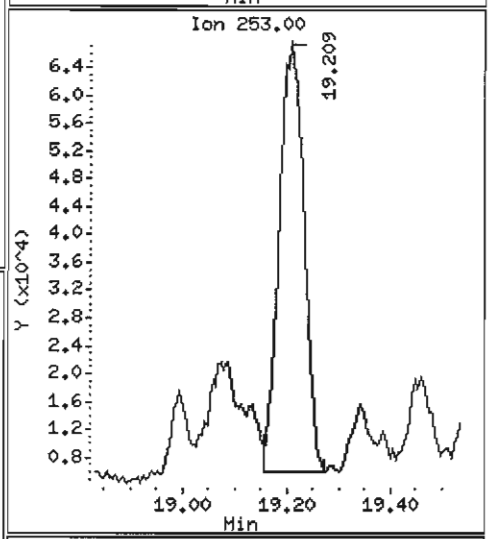


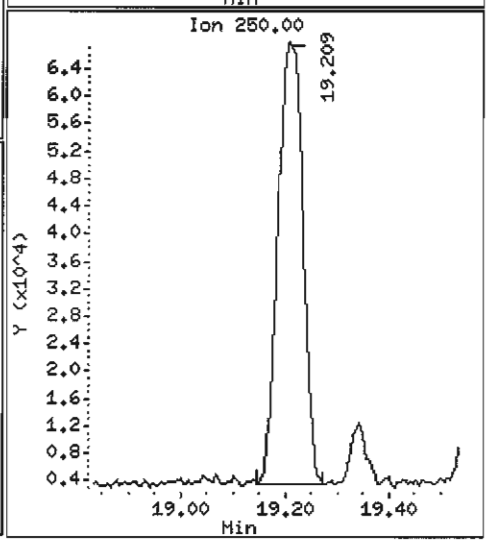












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

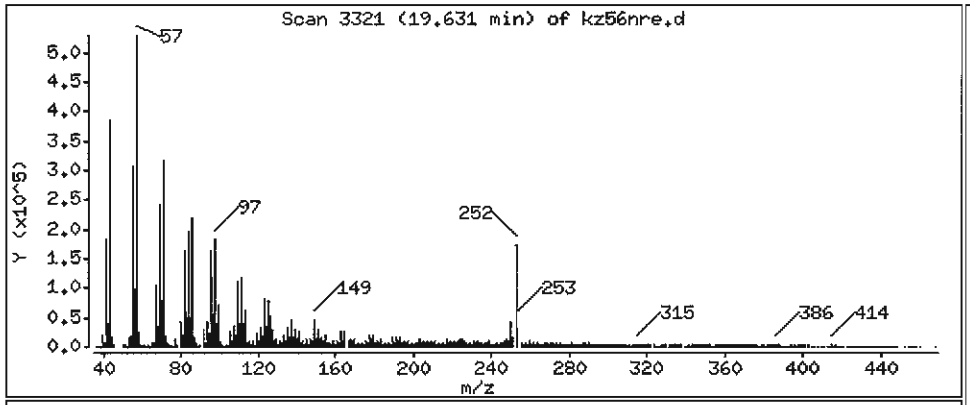
Operator: LJR/VTS

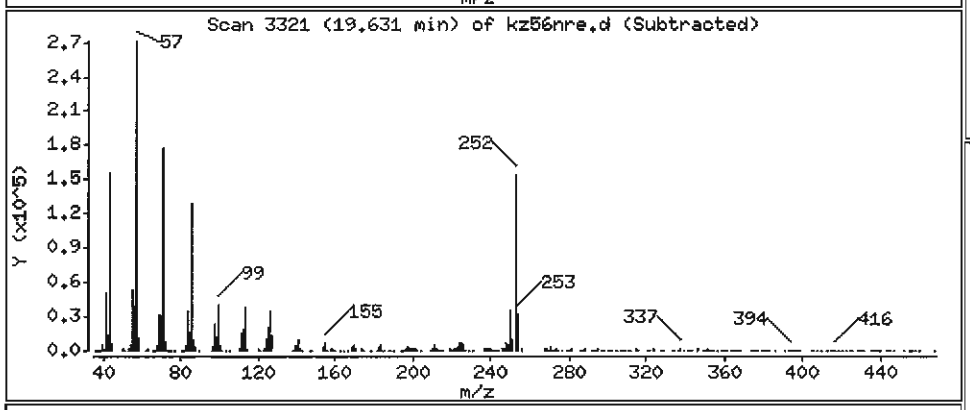
Column phase: ZB-5

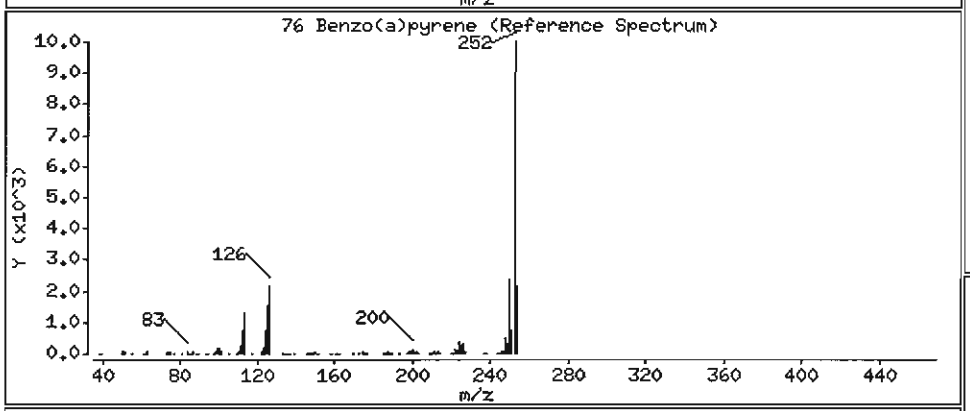
Column diameter: 0.32

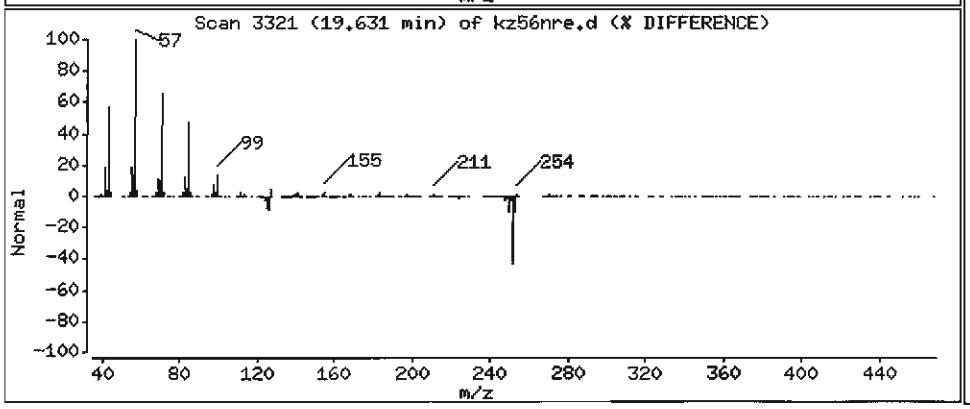
76 Benzo(a)pyrene

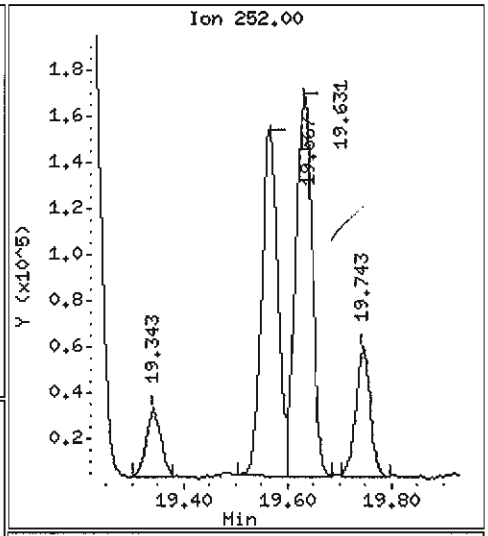
Concentration: 1028 ug/kg

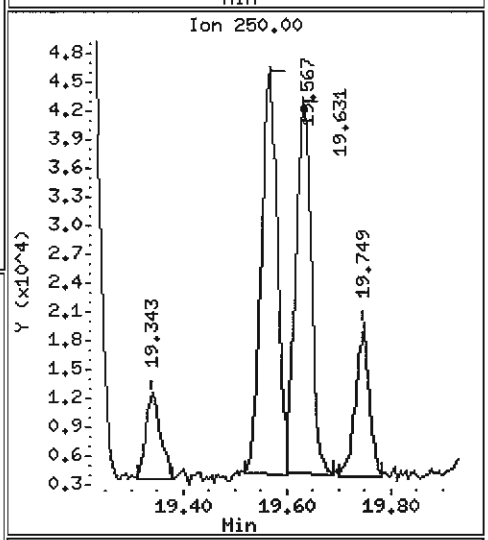


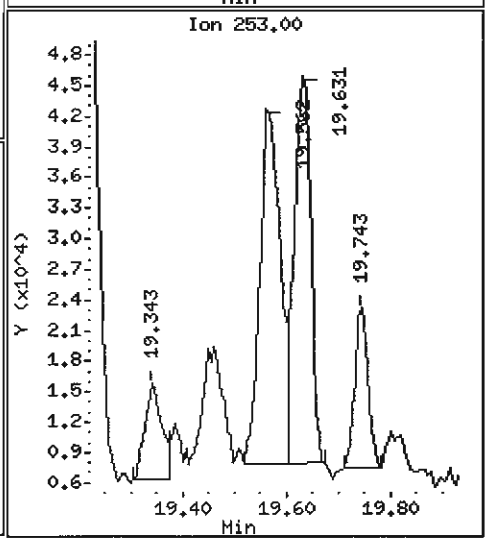












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

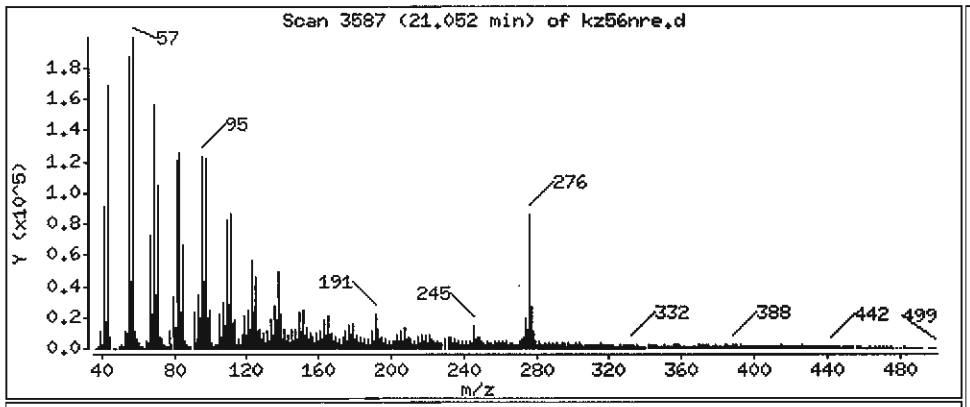
Operator: LJR/VTS

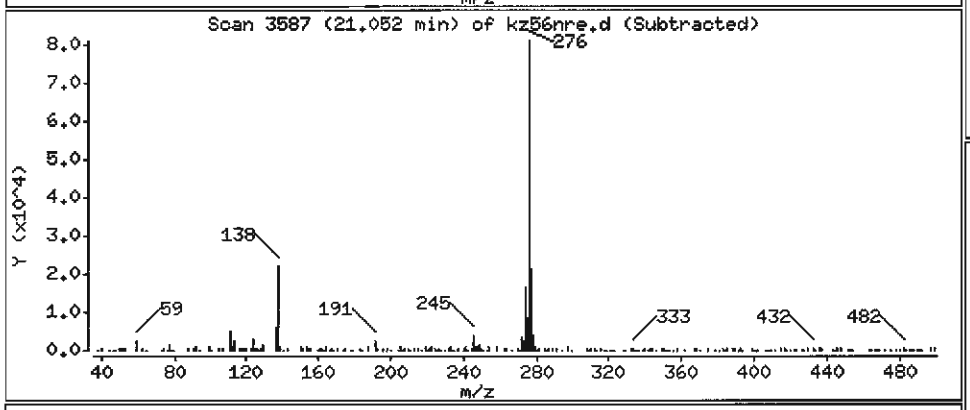
Column phase: ZB-5

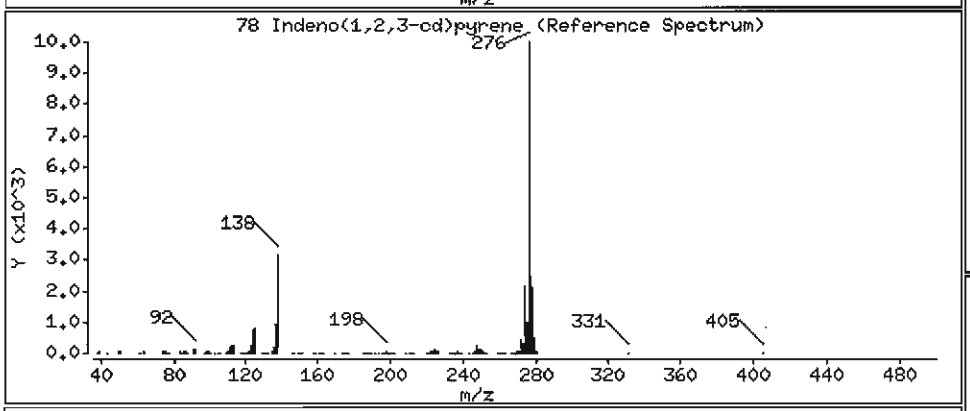
Column diameter: 0.32

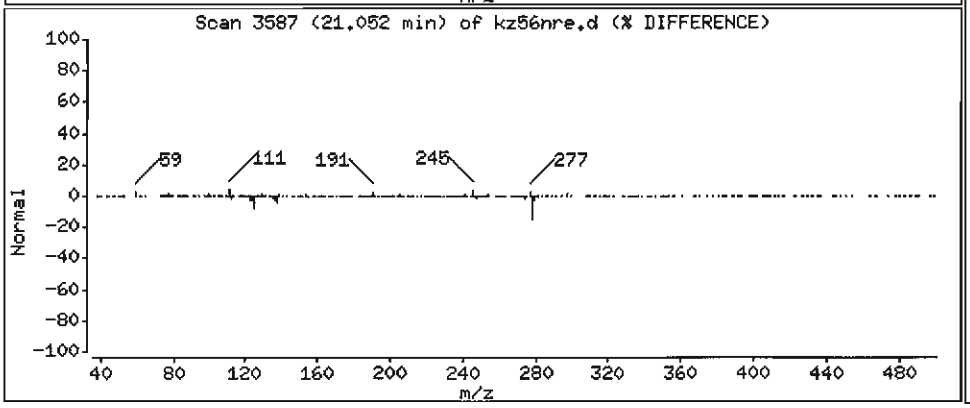
78 Indeno(1,2,3-cd)pyrene

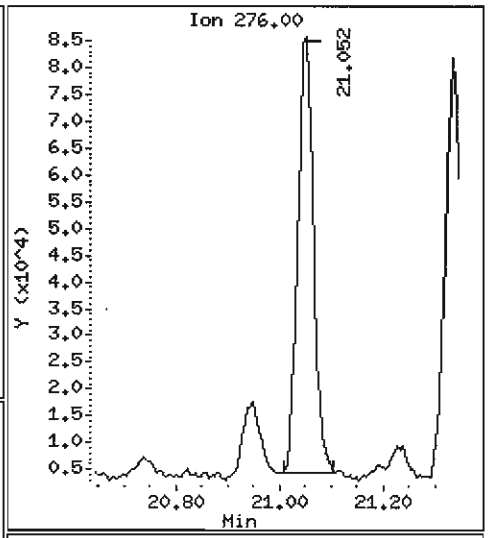
Concentration: 411.8 ug/kg

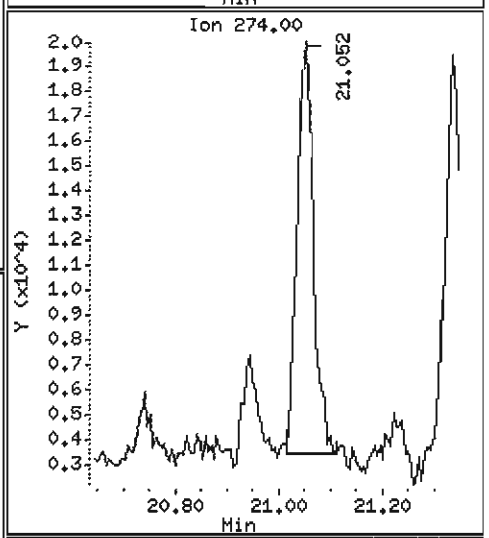


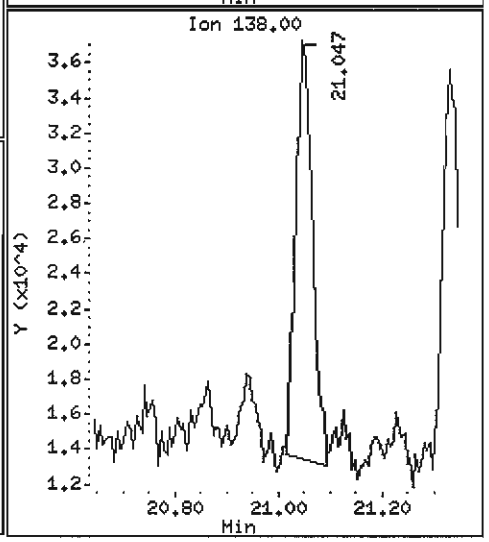












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

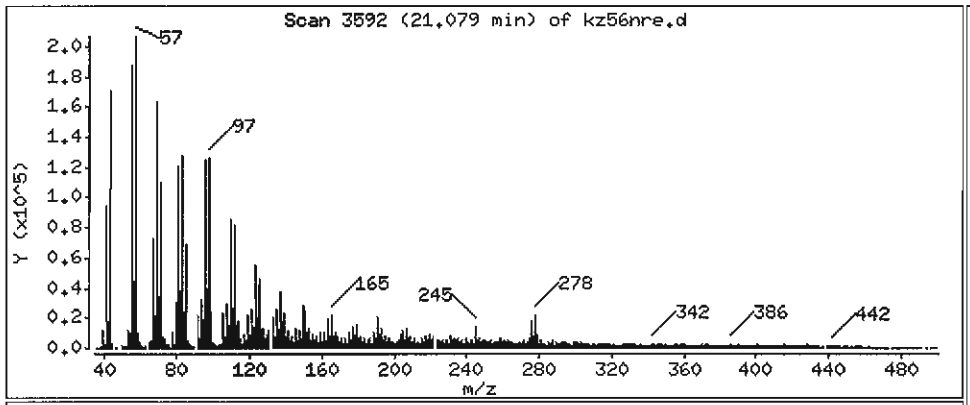
Operator: LJR/VTS

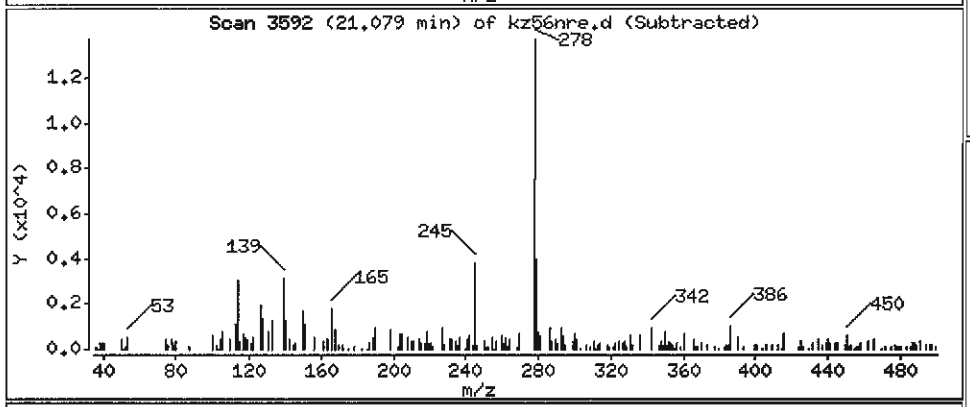
Column phase: ZB-5

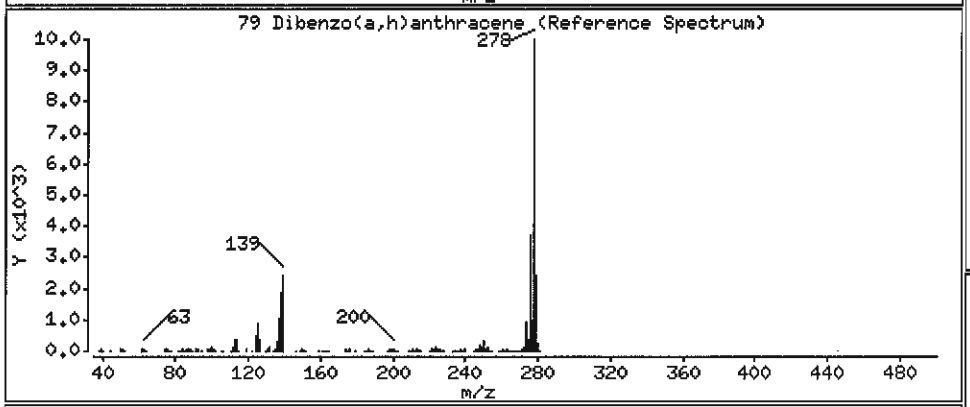
Column diameter: 0.32

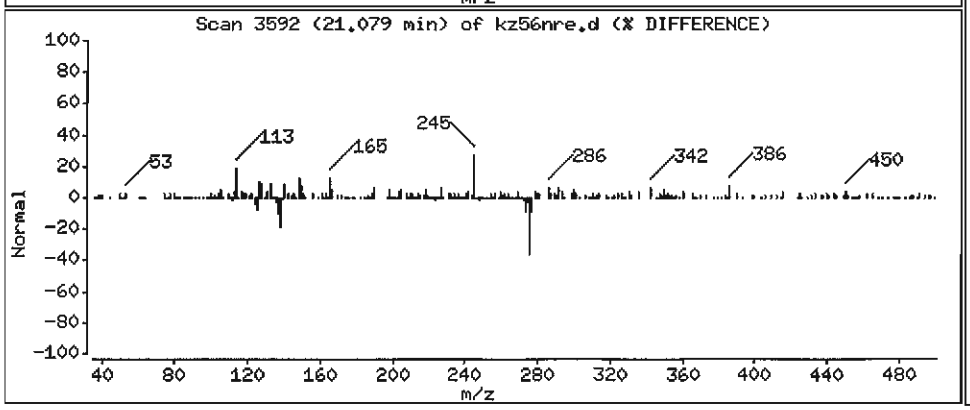
79 Dibenzo(a,h)anthracene

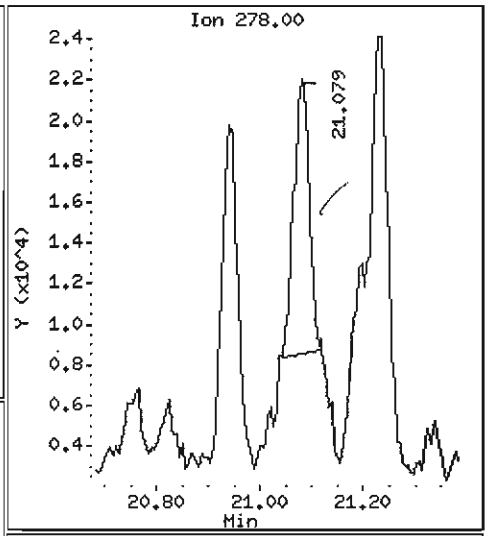
Concentration: 81.54 ug/kg

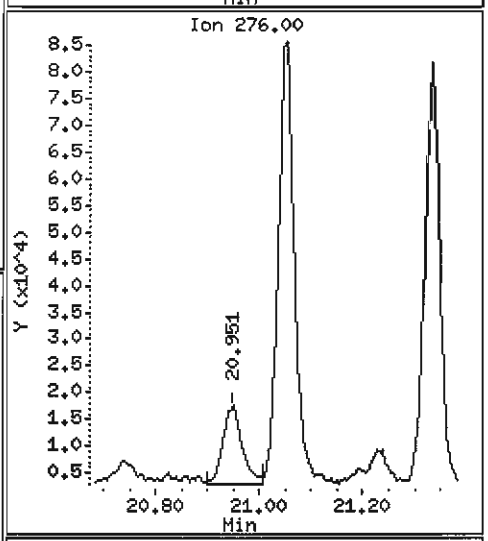


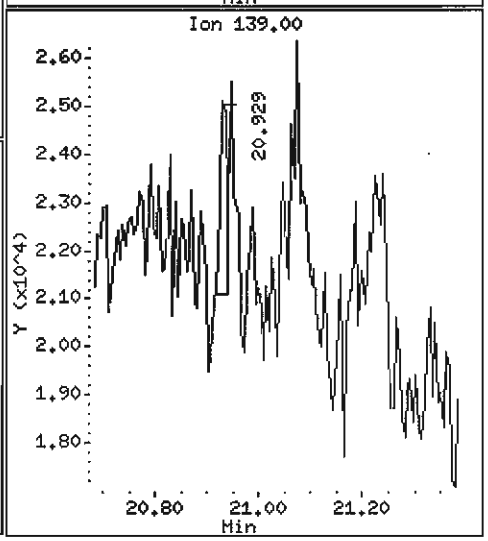












Data File: /chem1/nt6.i/20070606.b/kz56nre.d

Date : 06-JUN-2007 16:26

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,3

Volume Injected (uL): 1.0

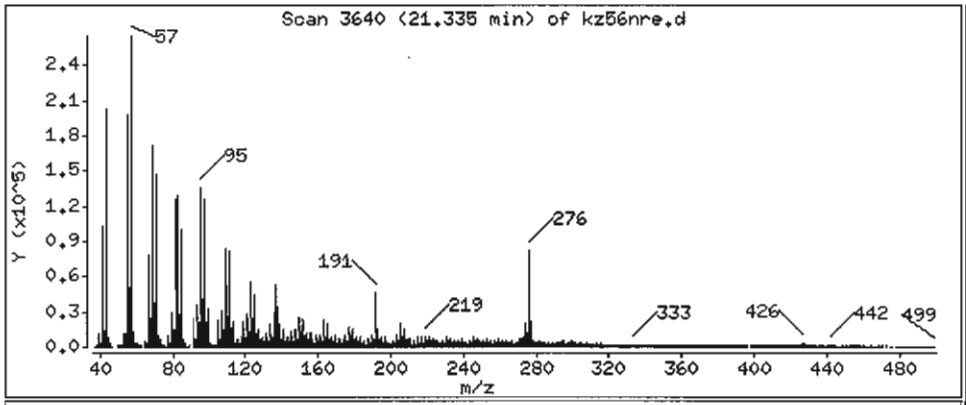
Operator: LJR/VTS

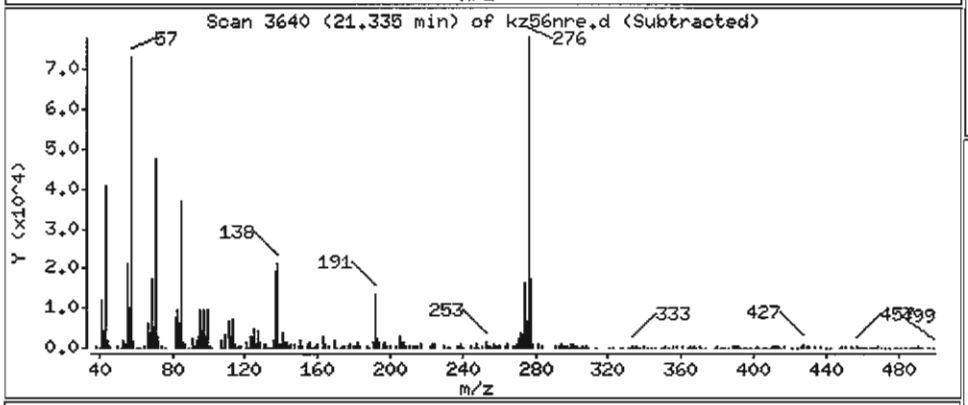
Column phase: ZB-5

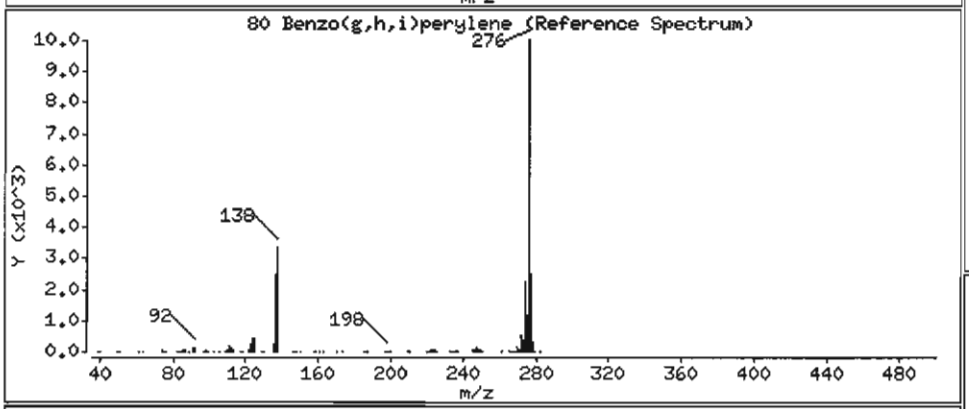
Column diameter: 0.32

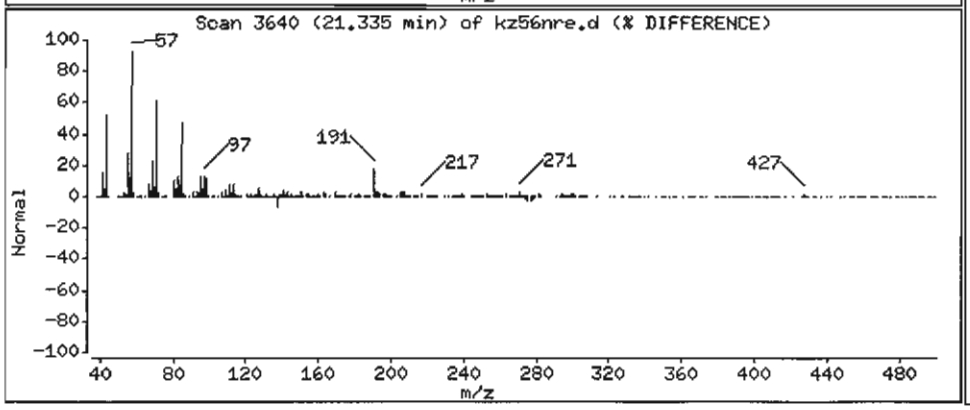
80 Benzo(g,h,i)perylene

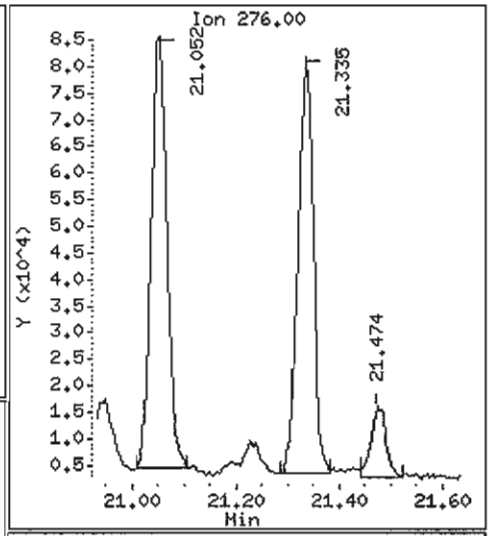
Concentration: 418.8 ug/kg

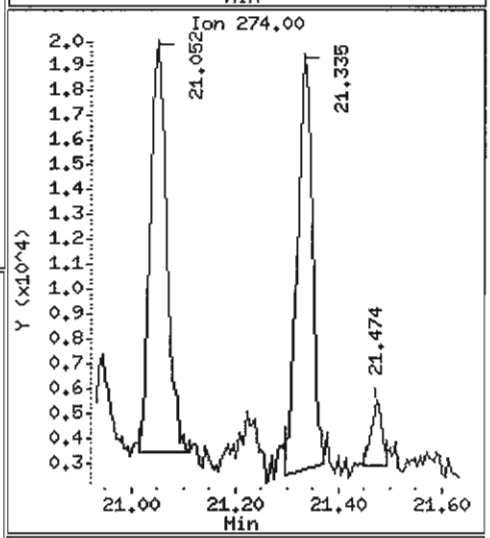


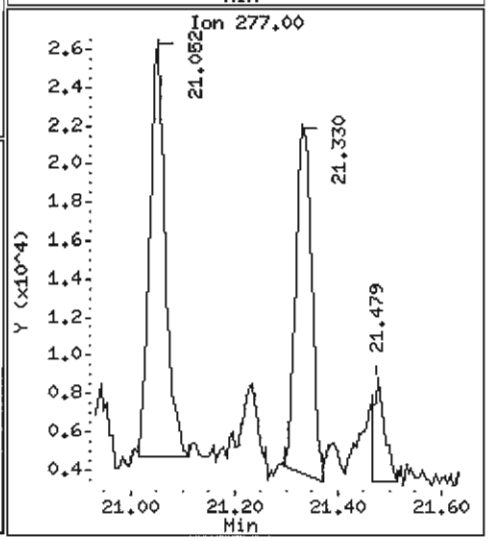












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC04-S
REEXTRACT DL

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 18:05
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 52.8%
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	360	< 360 U
91-57-6	2-Methylnaphthalene	360	< 360 U
208-96-8	Acenaphthylene	360	< 360 U
83-32-9	Acenaphthene	360	< 360 U
132-64-9	Dibenzofuran	360	< 360 U
86-73-7	Fluorene	360	< 360 U
85-01-8	Phenanthrene	360	980
120-12-7	Anthracene	360	190 J
206-44-0	Fluoranthene	360	2,600
129-00-0	Pyrene	360	2,100
56-55-3	Benzo(a)anthracene	360	870
117-81-7	bis(2-Ethylhexyl)phthalate	360	5,100
218-01-9	Chrysene	360	1,300
205-99-2	Benzo(b)fluoranthene	360	1,400
207-08-9	Benzo(k)fluoranthene	360	1,400
50-32-8	Benzo(a)pyrene	360	1,000
193-39-5	Indeno(1,2,3-cd)pyrene	360	480
53-70-3	Dibenz(a,h)anthracene	360	< 360 U
191-24-2	Benzo(g,h,i)perylene	360	480

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	61.6%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	60.8%	2-Fluorophenol	55.5%
2,4,6-Tribromophenol	70.4%	d4-2-Chlorophenol	60.5%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070606.b/kz56nrdl.d
Lab Smp Id: KZ56NRE Client Smp ID: Y3-RC04-S
Inj Date : 06-JUN-2007 18:05
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56NRE,10
Misc Info : 07-9560
Comment : 1ul Injection
Method : /chem1/nt6.i/20070606.b/SW846.m
Meth Date : 07-Jun-2007 08:44 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 18
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 6/7/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	59.10000	Weight of sample extracted (g)
M	52.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.246	4.228	(0.687)	40188	2.07992	745.6
$ 2 Phenol-d5	99	5.881	5.878	(0.952)	51734	2.28194	818.0
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	5.902	5.894	(0.955)	35541	2.26725	812.8
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.180	6.177	(1.000)	212523	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	6.474	6.471	(1.048)	13805	1.44016	516.3
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	7.045	7.043	(1.140)	14544	0.87176	312.5
$	18 Nitrobenzene-d5	82	7.115	7.118	(0.868)	28689	1.58516	568.3
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.199	8.197	(1.000)	760604	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.005	10.002	(0.909)	42593	1.54080	552.4
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.009	11.007	(1.000)	409588	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.281	12.284	(1.115)	11001	2.63817	945.7
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	13.328	13.325	(1.000)	639395	20.0000	
	60 Phenanthrene	178	13.360	13.357	(1.002)	116040	2.71941	974.9
	61 Anthracene	178	13.424	13.427	(1.007)	23528	0.53363	191.3
	62 Carbazole	167	13.744	13.742	(1.031)	23694	0.62452	223.9
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	15.256	15.254	(1.145)	296681	7.32811	2627
65 Pyrene	202	15.593	15.590	(0.888)	296041	5.98069	2144
$ 66 Terphenyl-d14	244	15.972	15.970	(0.910)	47002	1.49945	537.5
67 Butylbenzylphthalate	149	16.902	16.888	(0.963)	19219	0.82578	296.0(M)
68 Benzo(a)anthracene	228	17.537	17.529	(0.999)	108859	2.44284	875.7
* 69 Chrysene-d12	240	17.559	17.551	(1.000)	596562	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	17.596	17.588	(1.002)	167157	3.70807	1329
72 bis(2-Ethylhexyl)phthalate	149	17.927	17.919	(0.951)	465634	14.1594	5076
* 134 Di-n-octylphthalate-d4	153	18.857	18.838	(1.000)	960112	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	19.172	19.154	(0.974)	149153	3.82643	1372(M)
75 Benzo(k)fluoranthene	252	19.177	19.186	(0.974)	150696	4.02440	1443(M)
76 Benzo(a)pyrene	252	19.594	19.581	(0.995)	114346	2.93077	1051
* 77 Perylene-d12	264	19.685	19.656	(1.000)	601188	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.015	20.997	(1.068)	62304	1.35071	484.2(M)
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	21.293	21.285	(1.082)	56049	1.32642	475.5(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56nrdl.d
Lab Smp Id: KZ56NRE
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-9560

Calibration Date: 06-JUN-2007
Calibration Time: 08:14
Client Smp ID: Y3-RC04-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	210566	105283	421132	212523	0.93
27 Naphthalene-d8	738477	369238	1476954	760604	3.00
42 Acenaphthene-d10	362869	181434	725738	409588	12.87
59 Phenanthrene-d10	499867	249934	999734	639395	27.91
69 Chrysene-d12	387597	193798	775194	596562	53.91
134 Di-n-octylphthala	653887	326944	1307774	960112	46.83
77 Perylene-d12	508340	254170	1016680	601188	18.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.18	5.68	6.68	6.18	0.04
27 Naphthalene-d8	8.20	7.70	8.70	8.20	0.03
42 Acenaphthene-d10	11.01	10.51	11.51	11.01	0.02
59 Phenanthrene-d10	13.33	12.83	13.83	13.33	0.02
69 Chrysene-d12	17.55	17.05	18.05	17.56	0.04
134 Di-n-octylphthala	18.84	18.34	19.34	18.86	0.10
77 Perylene-d12	19.66	19.16	20.16	19.68	0.15

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56NRE
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-9560

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC04-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1344	745.6	55.46	11-84
$ 2 Phenol-d5	1344	818.0	60.85	25-86
$ 5 2-Chlorophenol-d4	1344	812.8	60.46	23-91
$ 10 1,2-Dichlorobenzen	896.2	516.3	57.61	24-90
$ 18 Nitrobenzene-d5	896.2	568.3	63.41	26-88
$ 36 2-Fluorobiphenyl	896.2	552.4	61.63	34-91
$ 55 2,4,6-Tribromophen	1344	945.7	70.35	25-107
$ 66 Terphenyl-d14	896.2	537.5	59.98	22-100

Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Sample Info: KZ56NRE,10

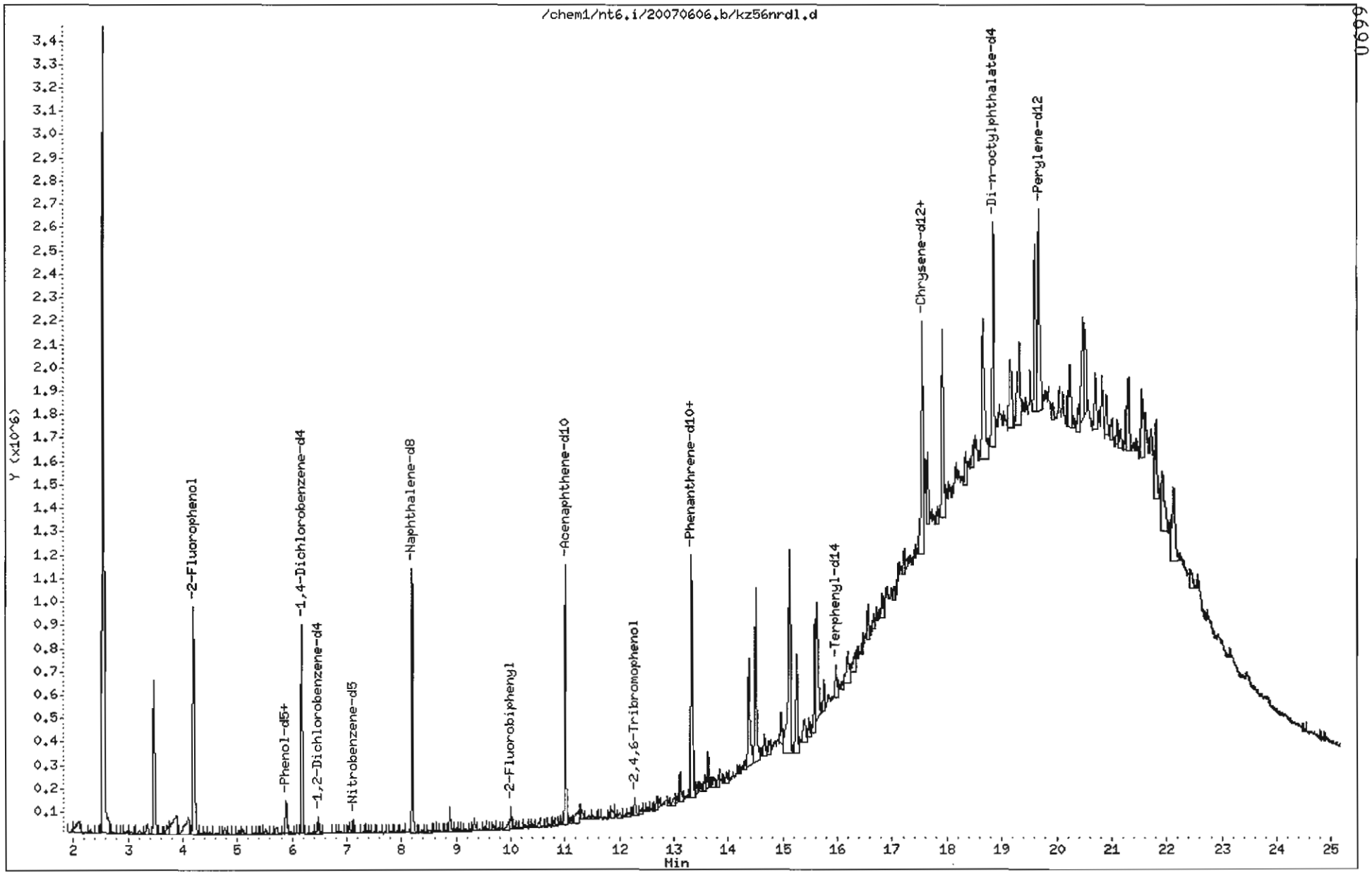
Volume Injected (uL): 1.0

Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32



0690

Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

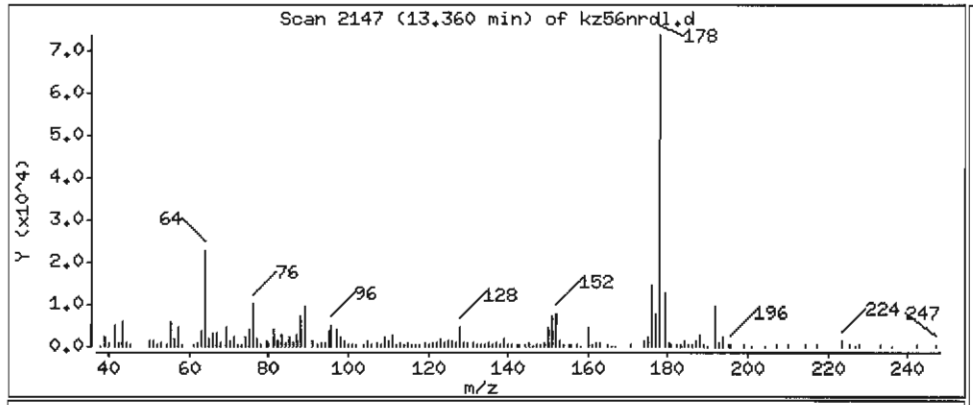
Operator: LJR/VTS

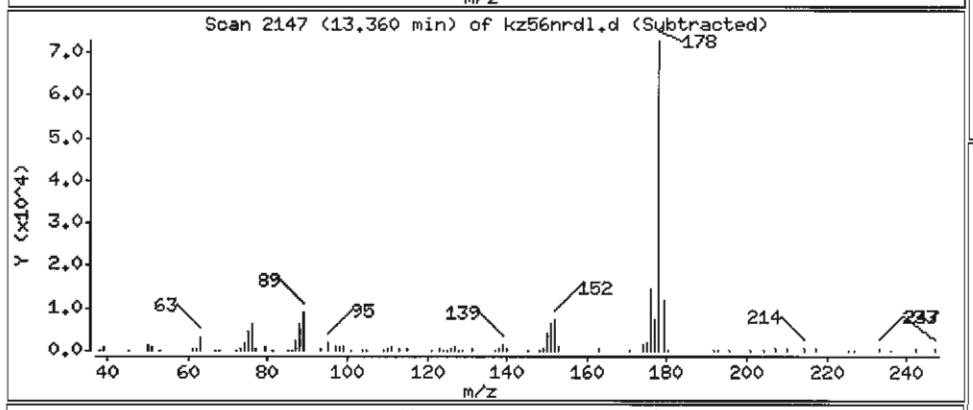
Column phase: ZB-5

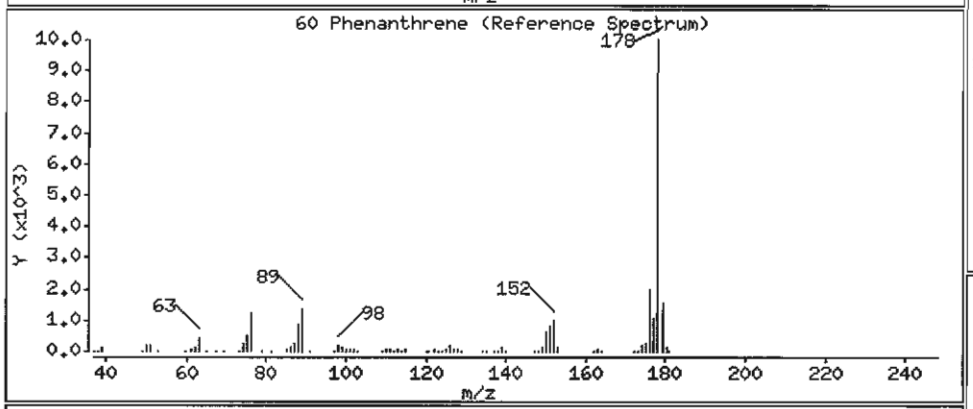
Column diameter: 0.32

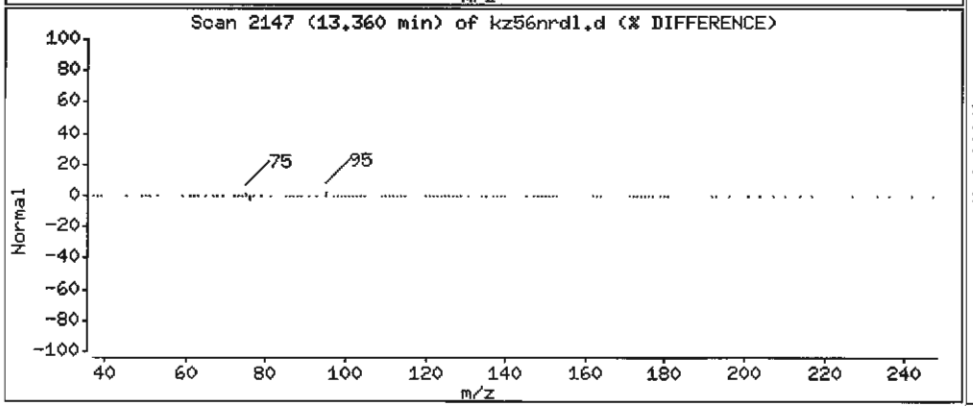
60 Phenanthrene

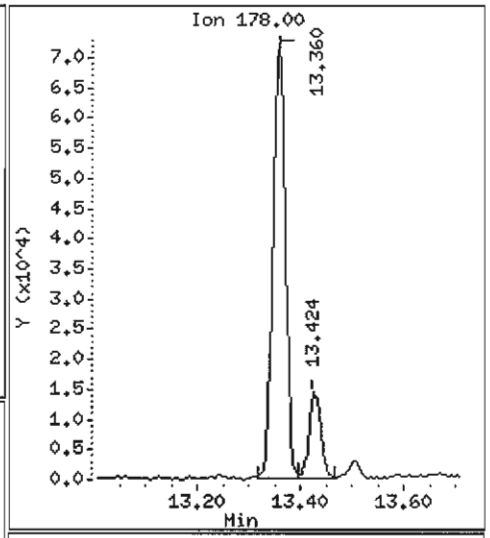
Concentration: 974.9 ug/kg

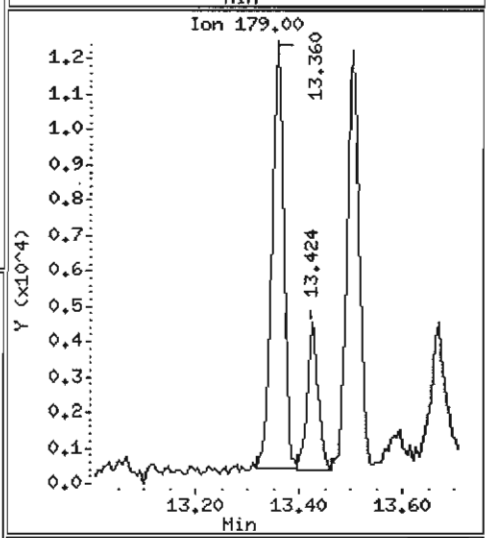


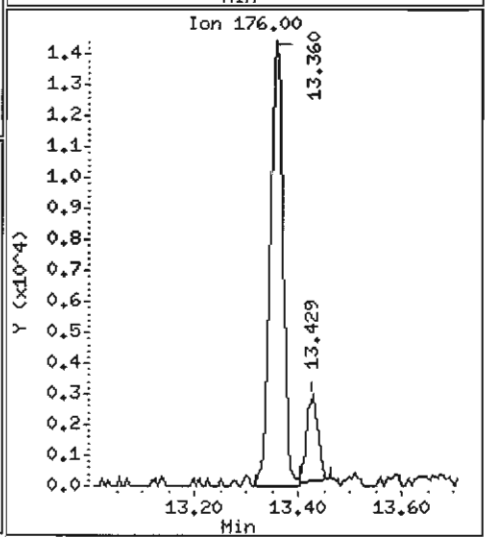












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

Operator: LJR/VTS

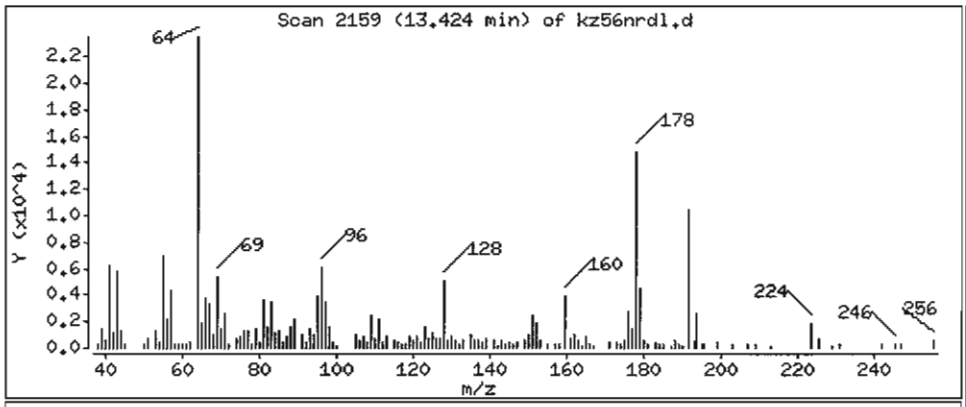
Column phase: ZB-5

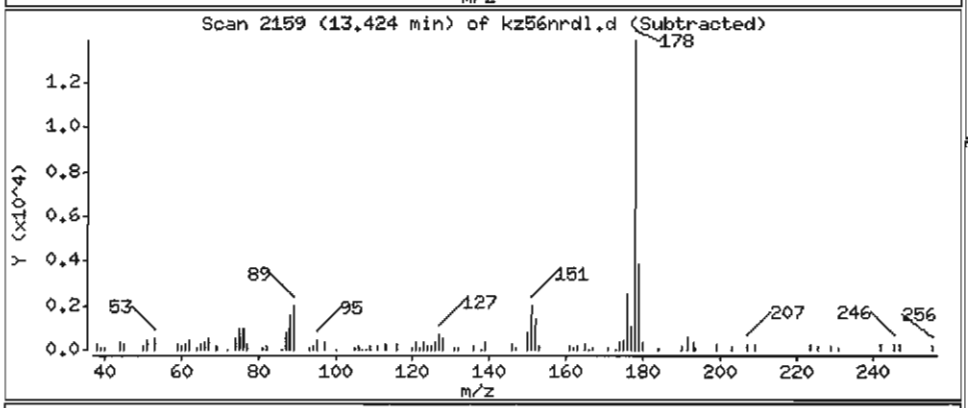
Column diameter: 0.32

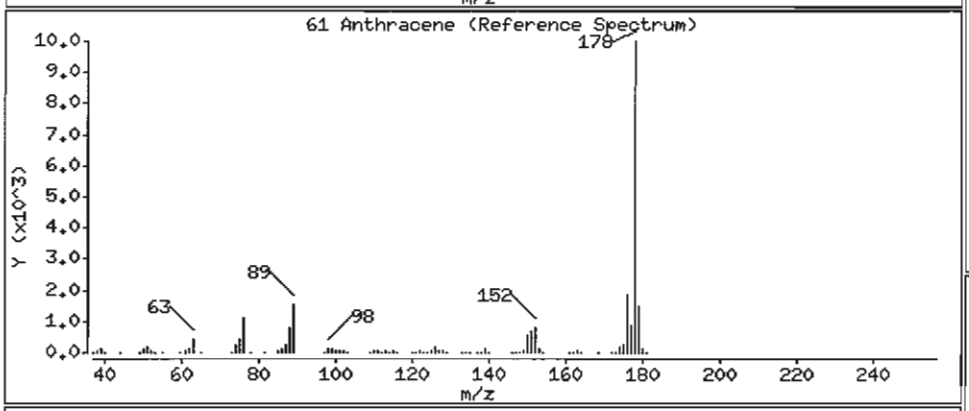
61 Anthracene

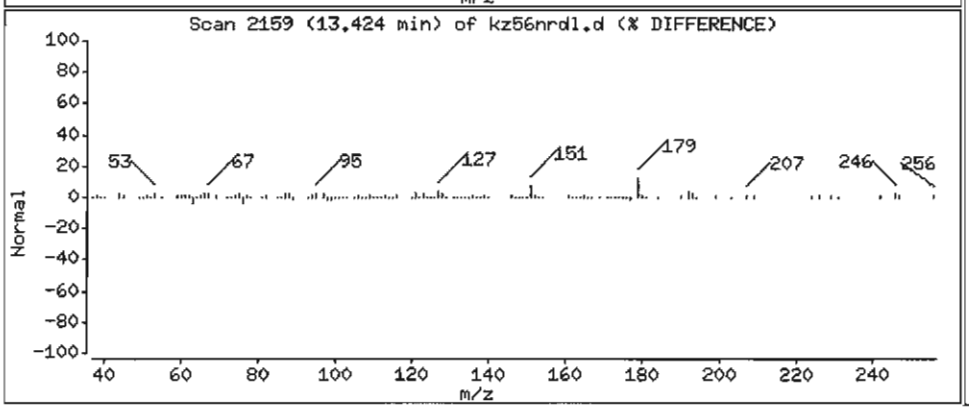
Concentration: 191.3 ug/kg

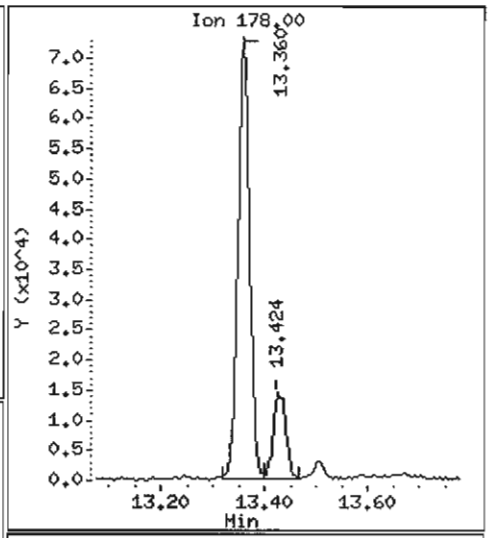
JLW

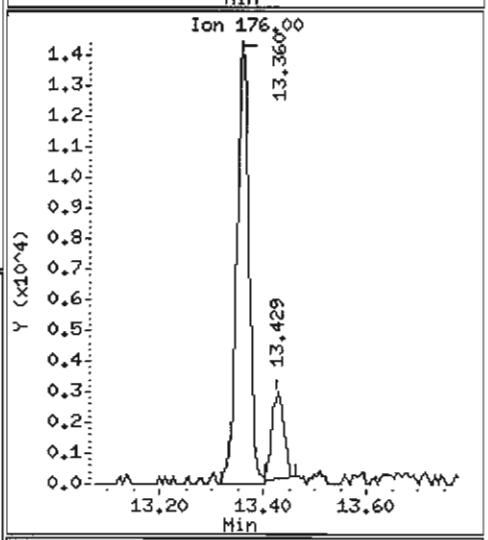


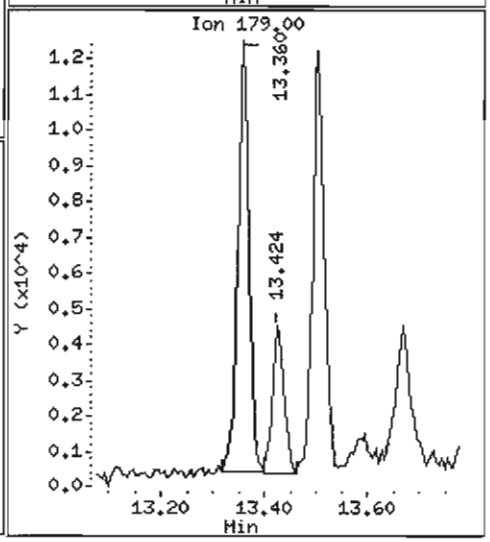












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

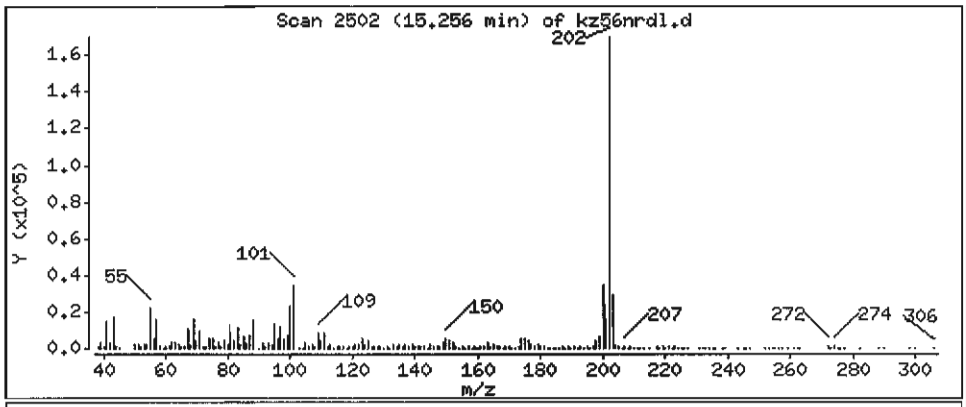
Operator: LJR/VTS

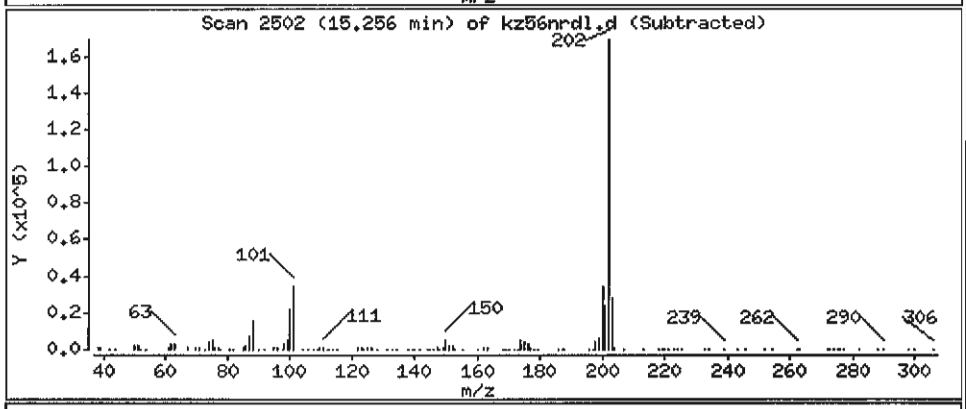
Column phase: ZB-5

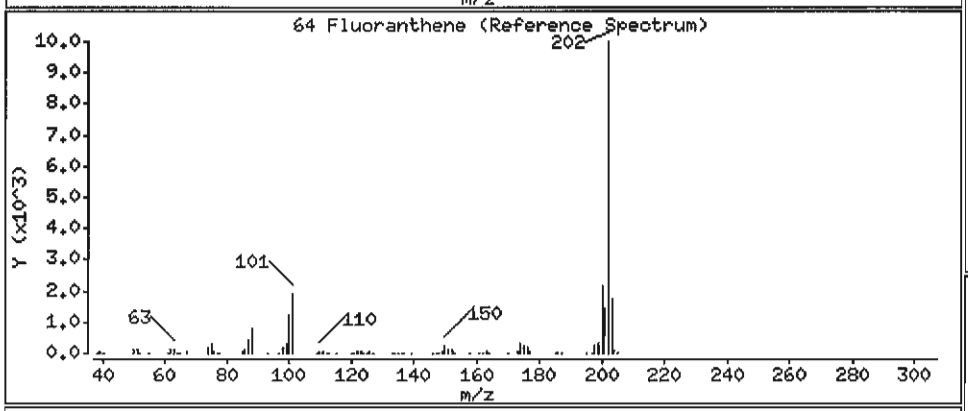
Column diameter: 0.32

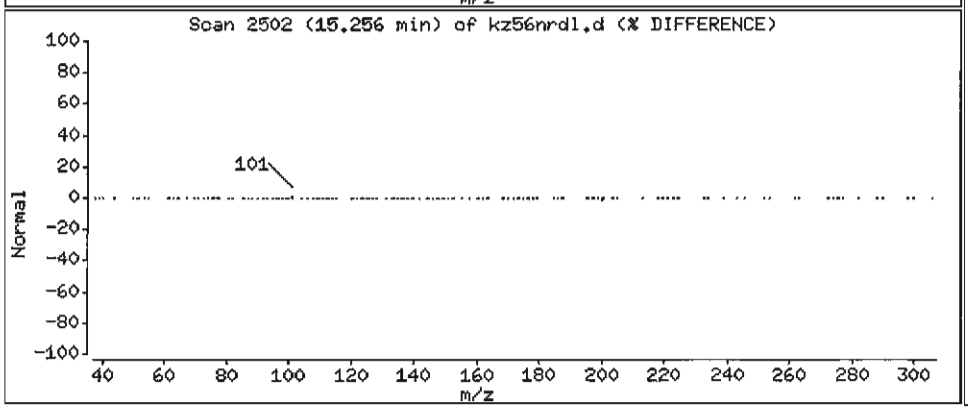
64 Fluoranthene

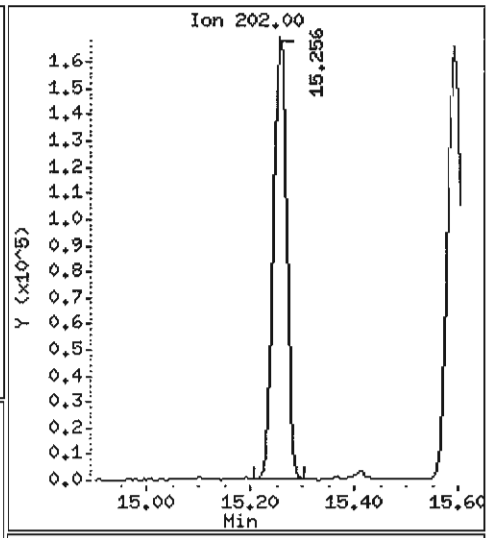
Concentration: 2627 ug/kg

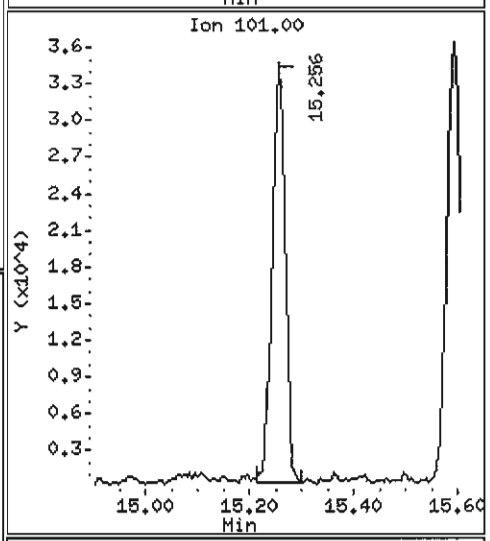


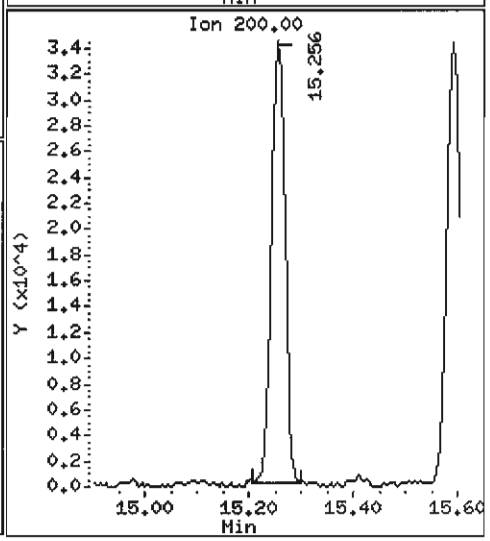












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

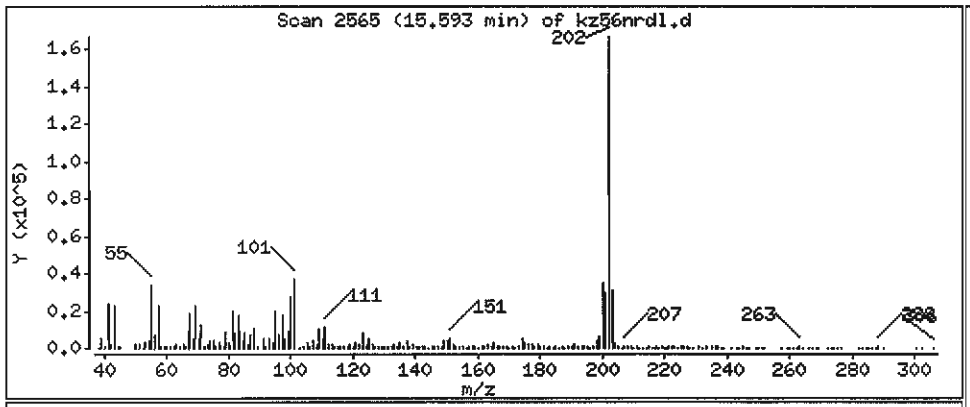
Operator: LJR/VTS

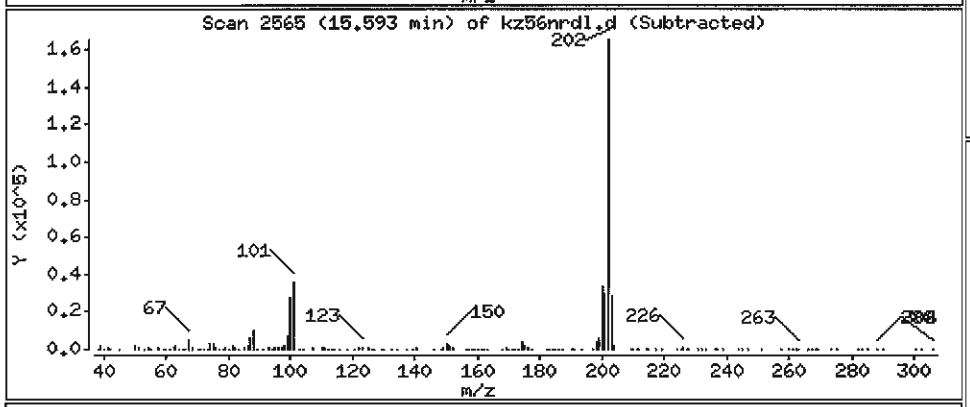
Column phase: ZB-5

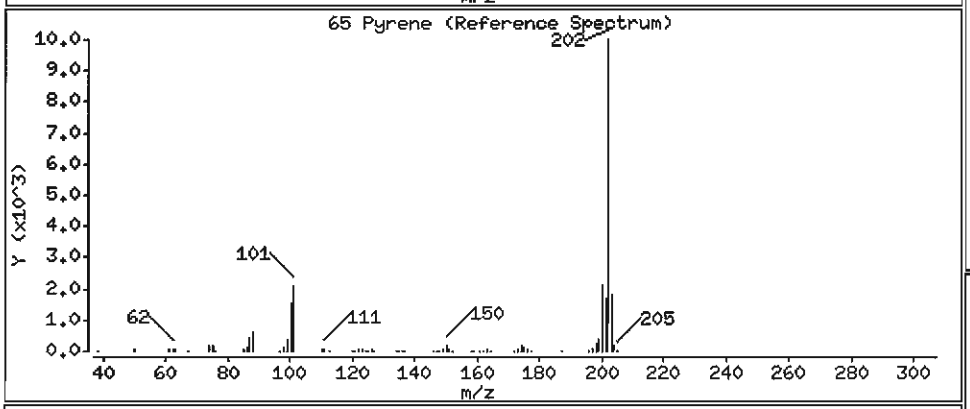
Column diameter: 0.32

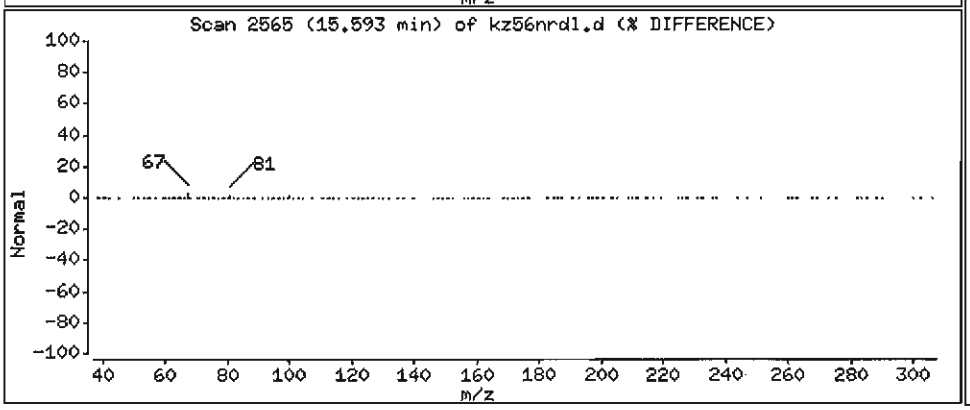
65 Pyrene

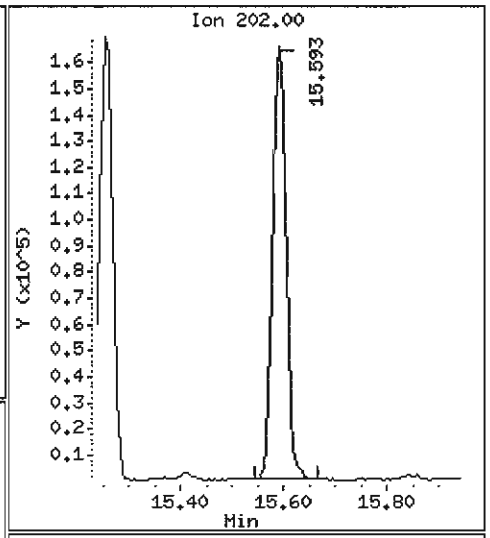
Concentration: 2144 ug/kg

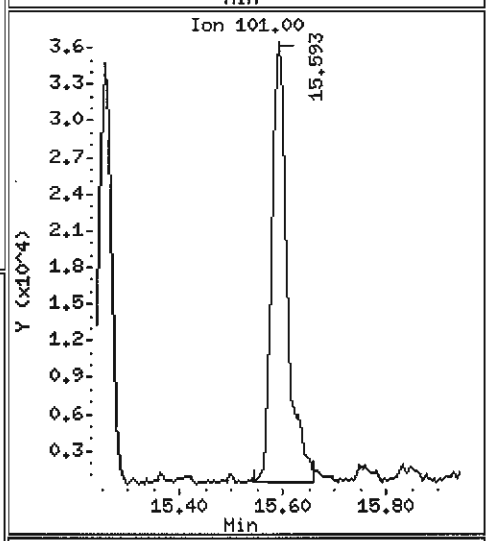


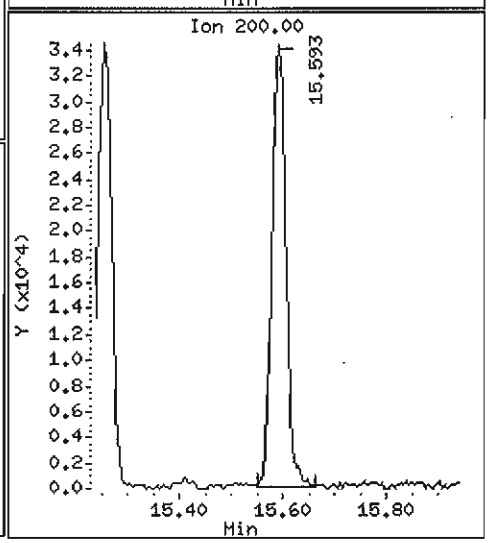












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

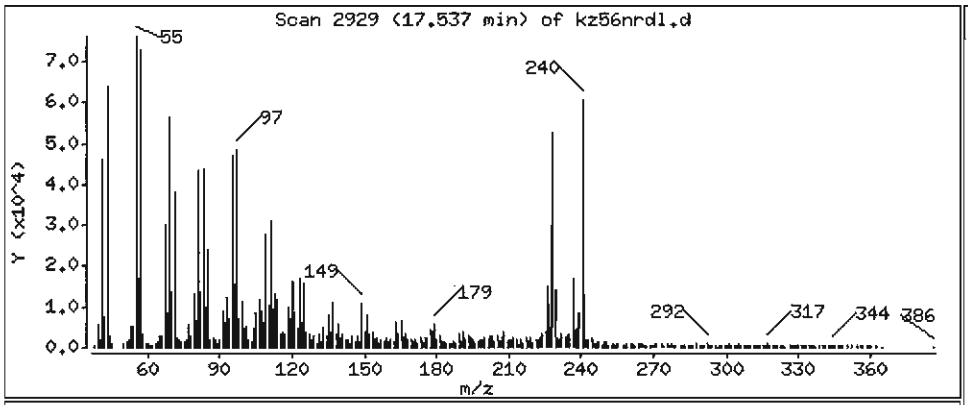
Operator: LJR/VTS

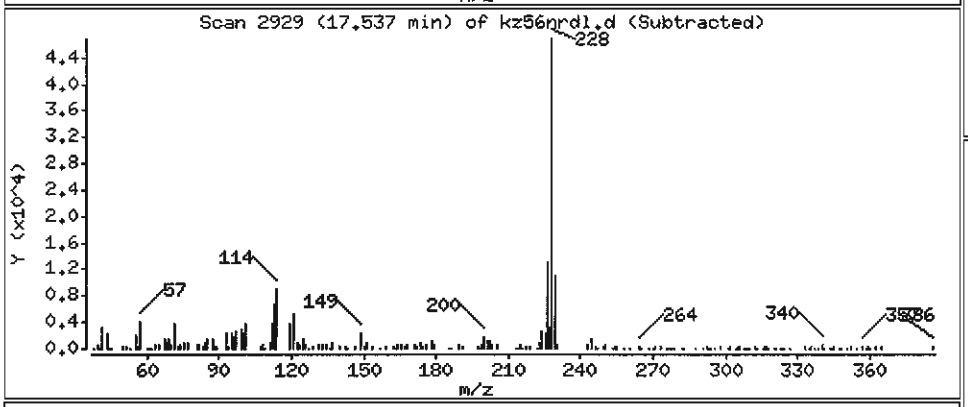
Column phase: ZB-5

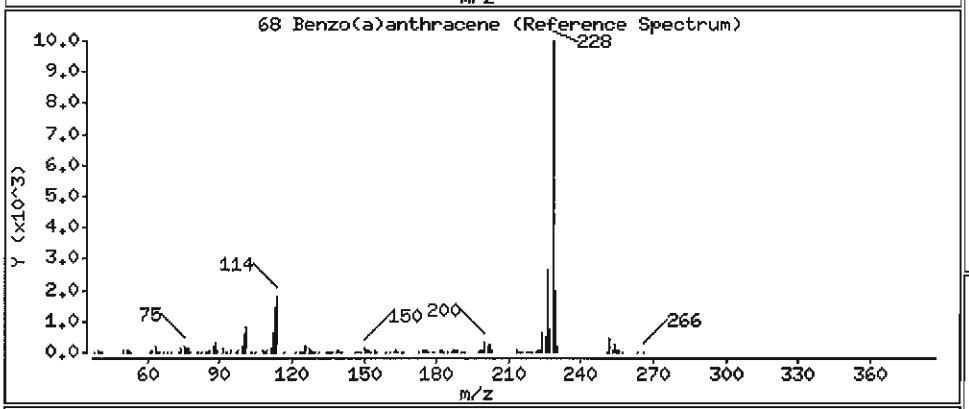
Column diameter: 0.32

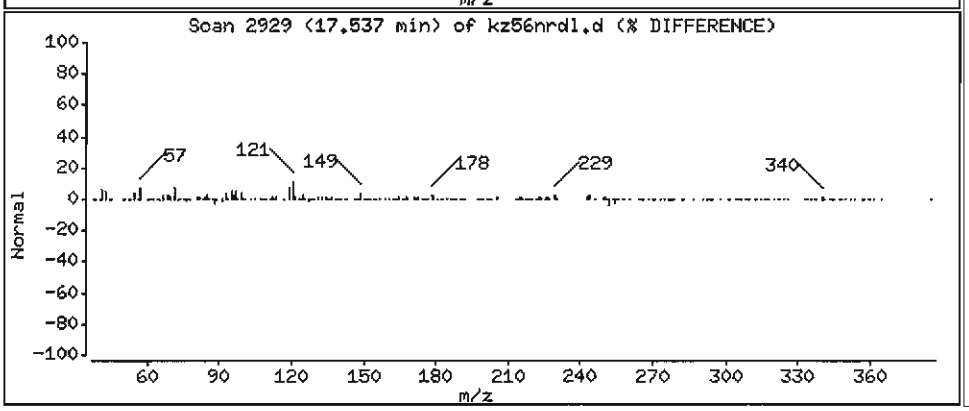
68 Benzo(a)anthracene

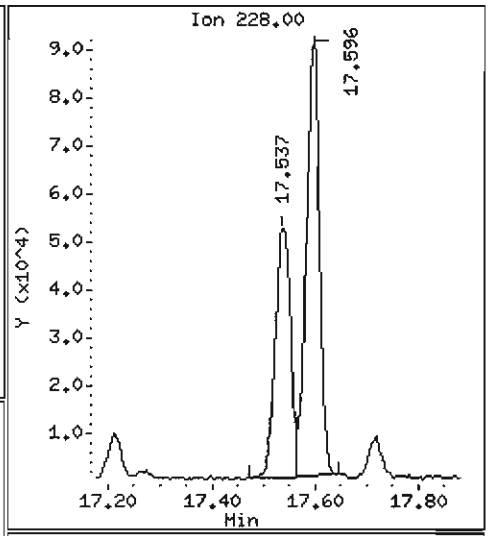
Concentration: 875.7 ug/kg

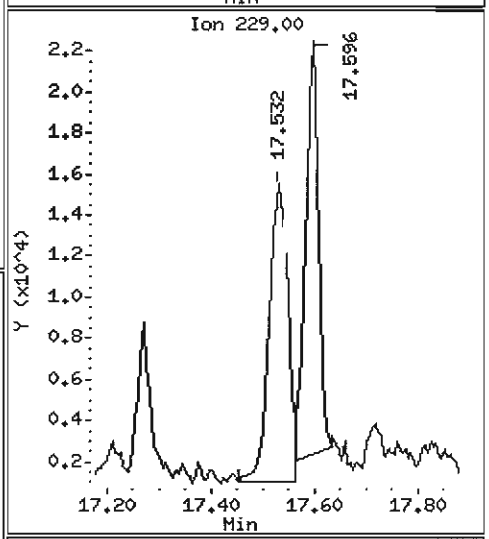


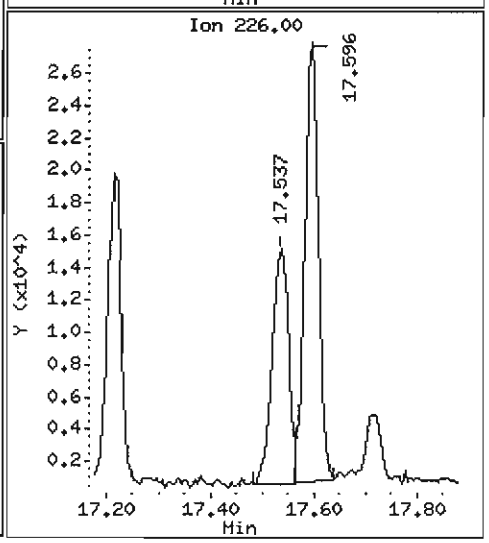












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

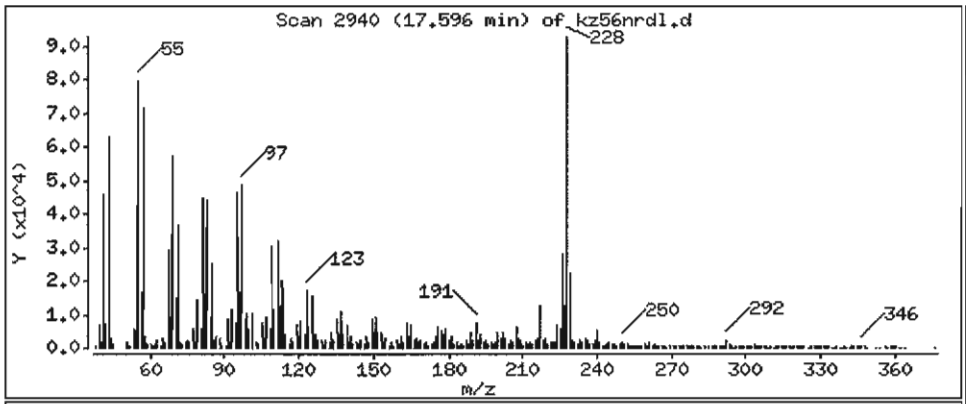
Operator: LJR/VTS

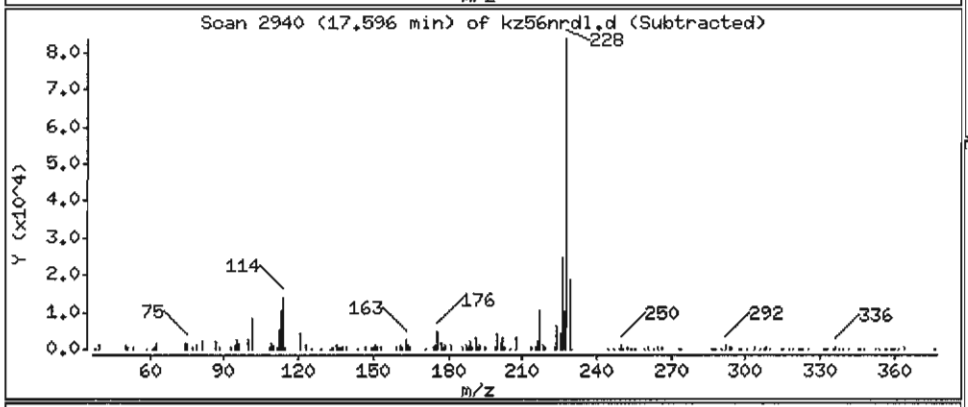
Column phase: ZB-5

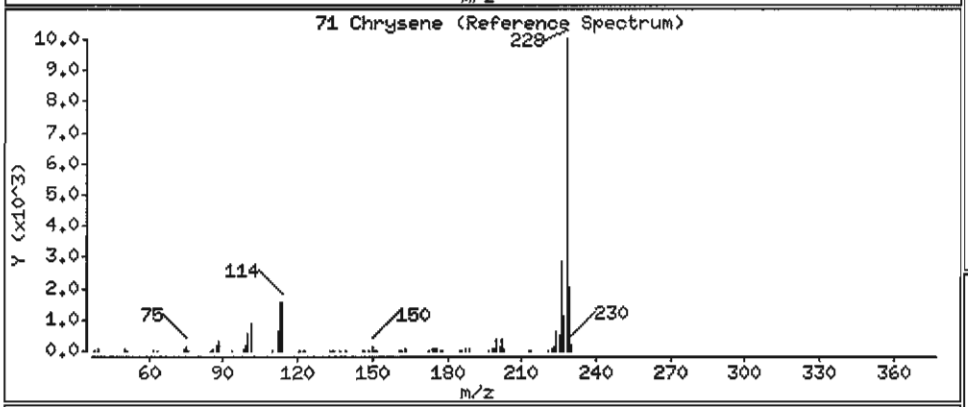
Column diameter: 0.32

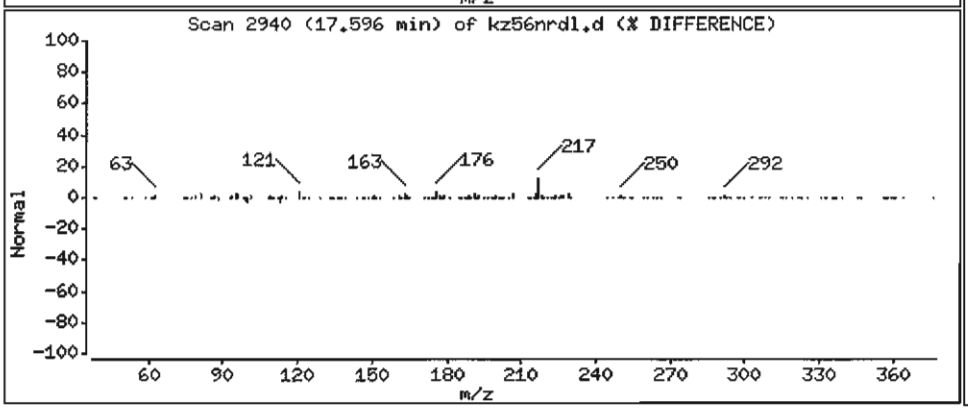
71 Chrysene

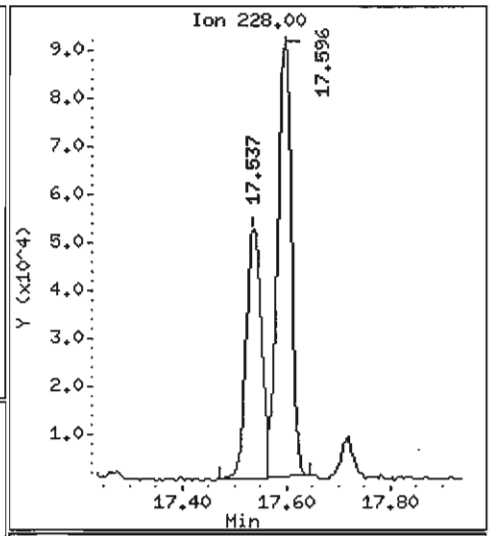
Concentration: 1329 ug/kg

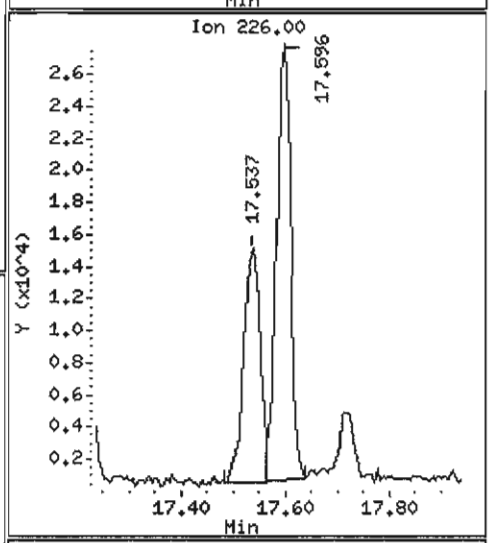


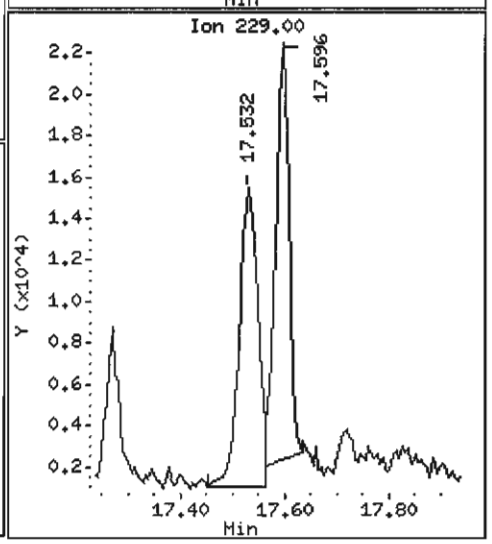












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

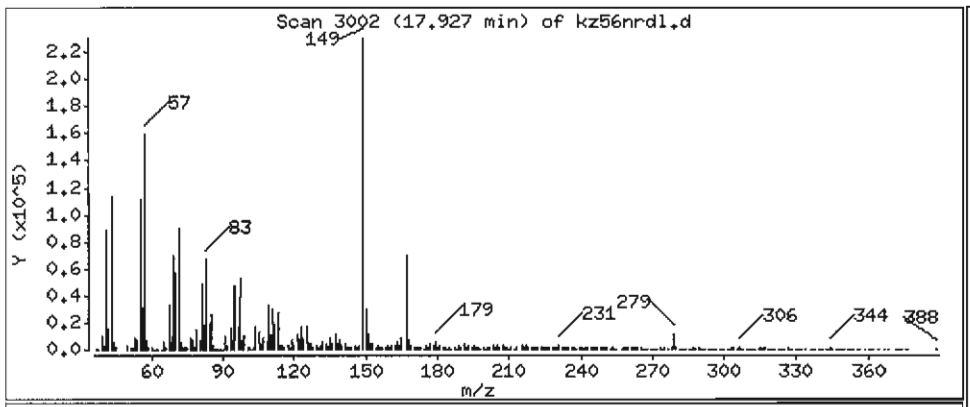
Operator: LJR/VTS

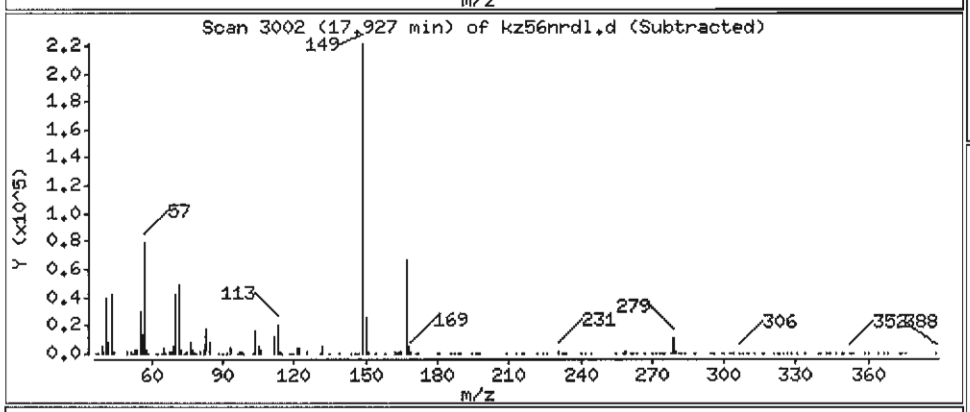
Column phase: ZB-5

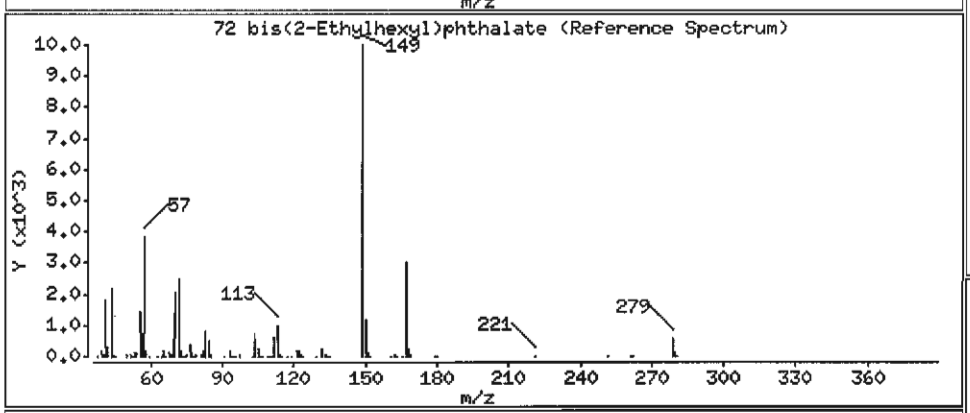
Column diameter: 0.32

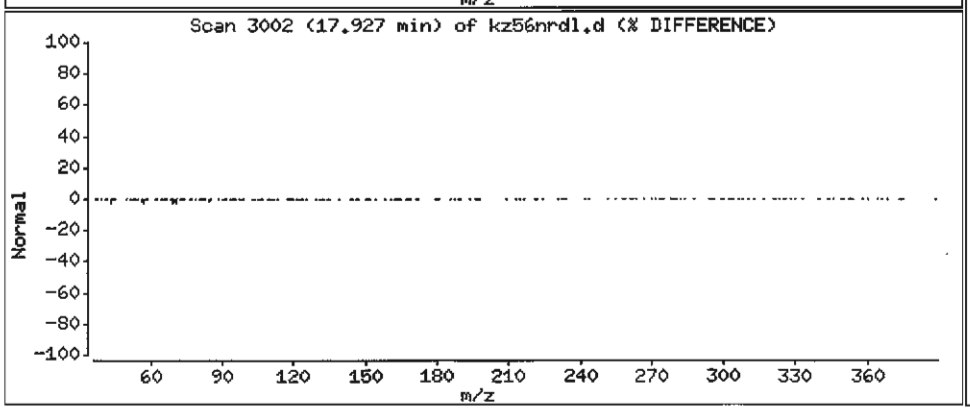
72 bis(2-Ethylhexyl)phthalate

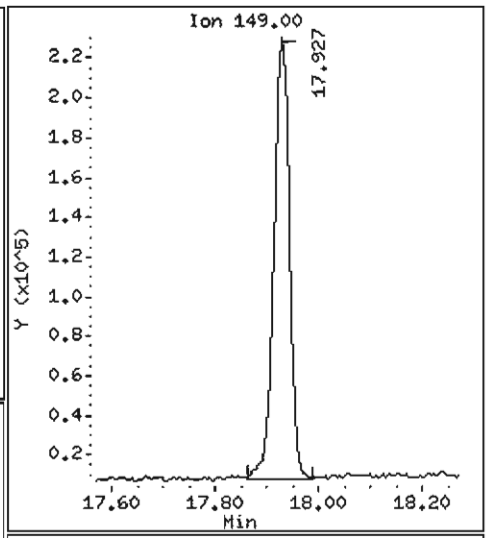
Concentration: 5076 ug/kg

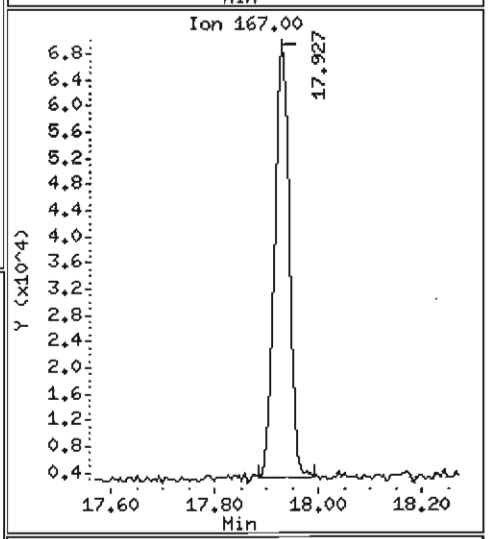


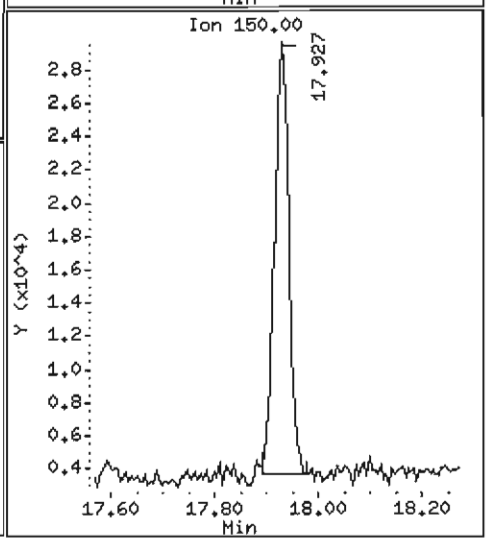












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

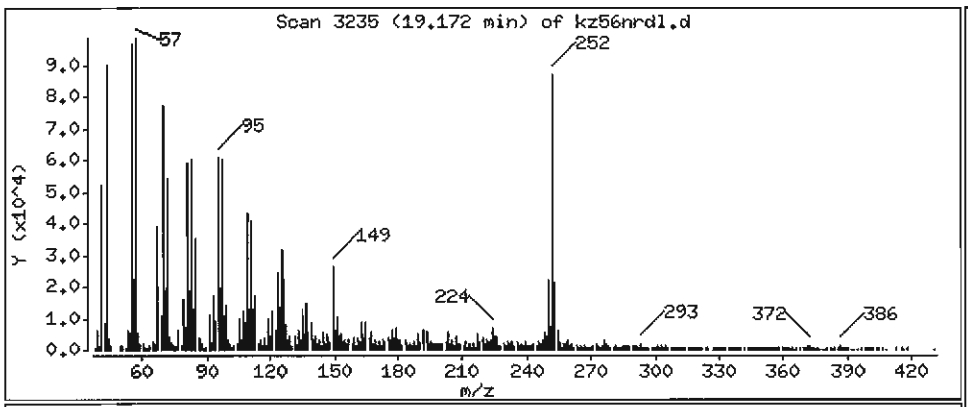
Operator: LJR/WTS

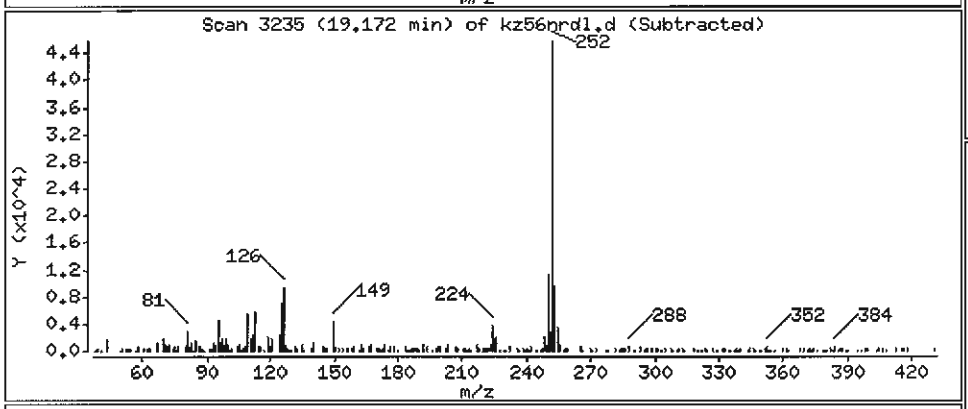
Column phase: ZB-5

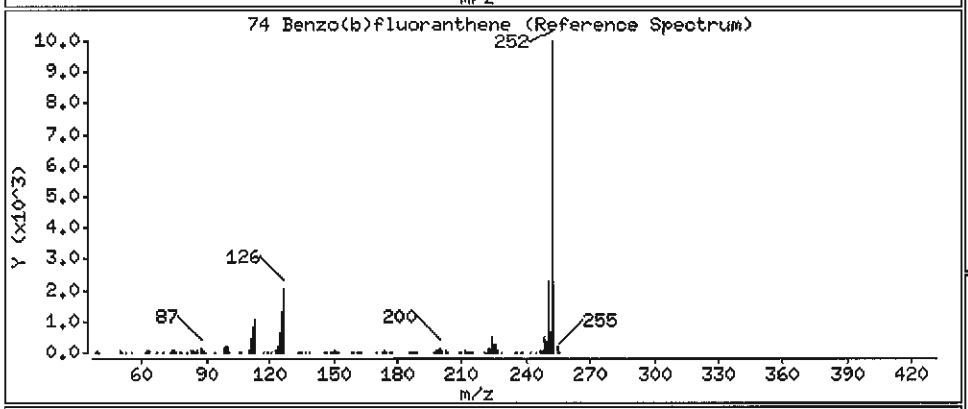
Column diameter: 0.32

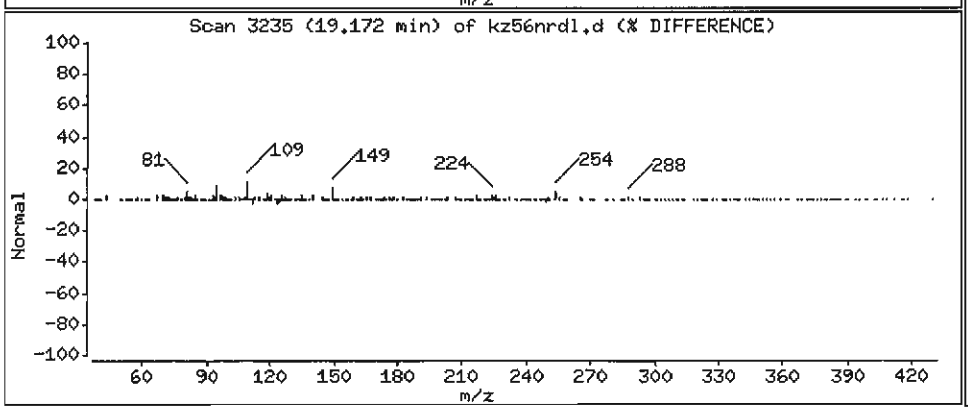
74 Benzo(b)fluoranthene

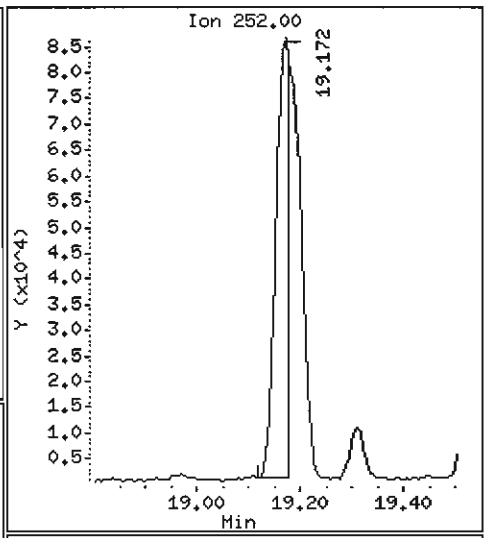
Concentration: 1372 ug/kg

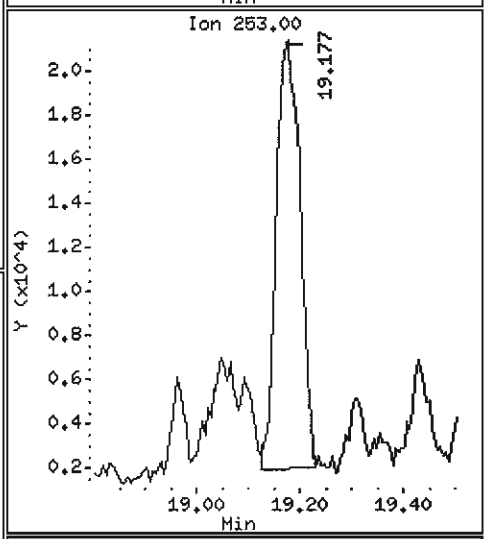


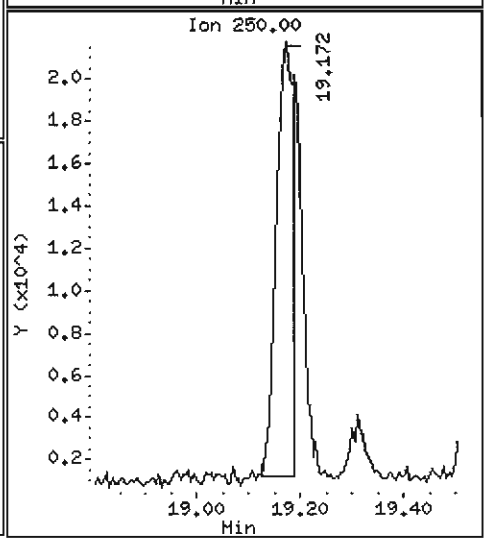












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

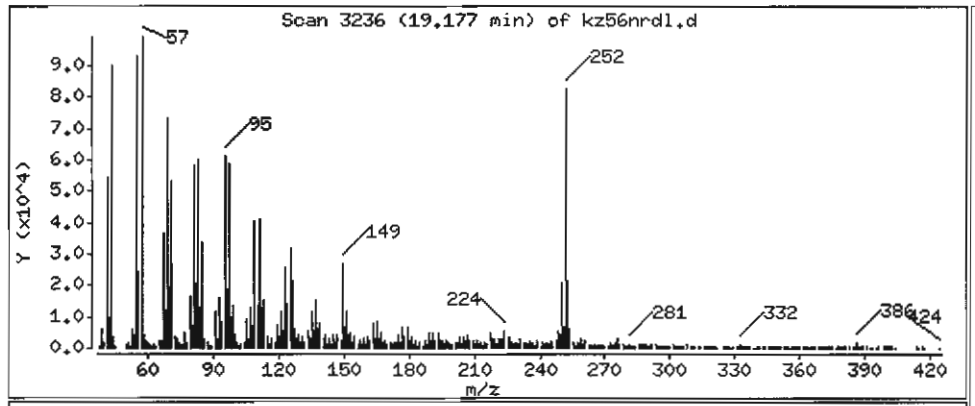
Operator: LJR/VTS

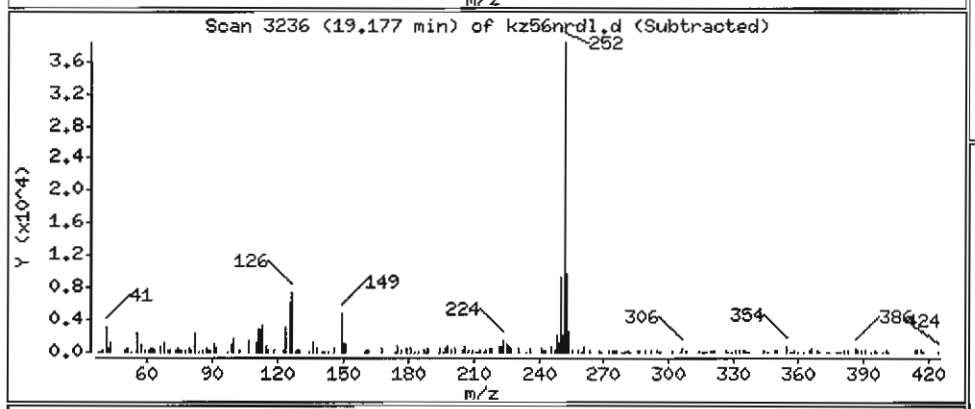
Column phase: ZB-5

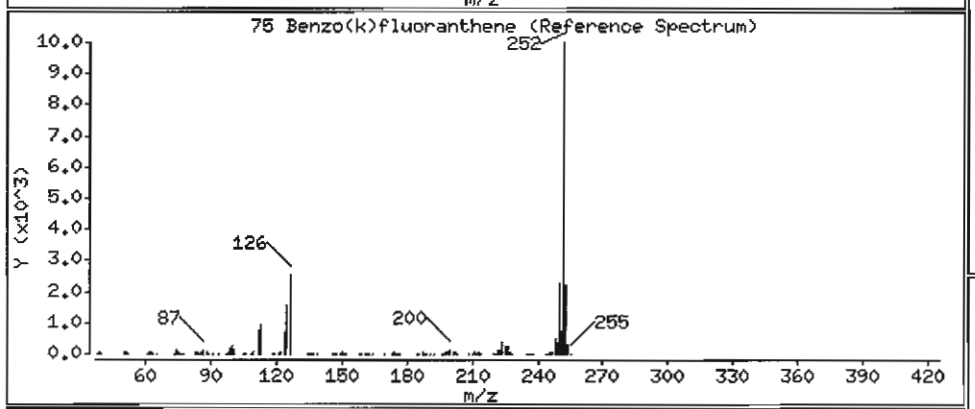
Column diameter: 0.32

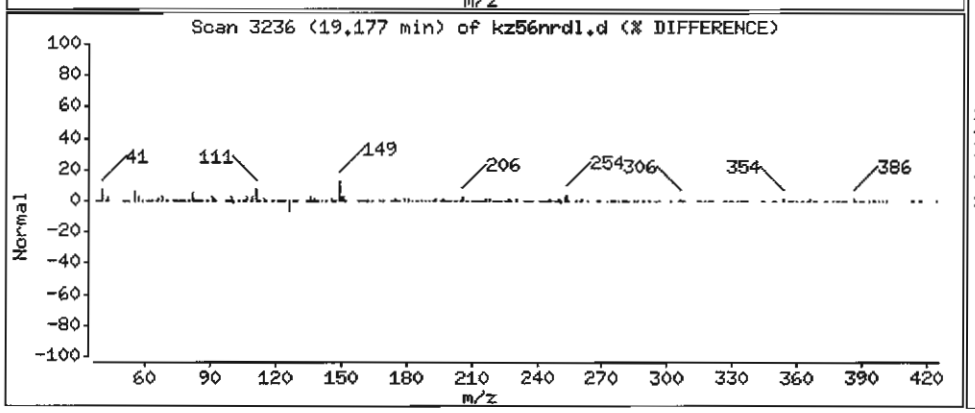
75 Benzo(k)fluoranthene

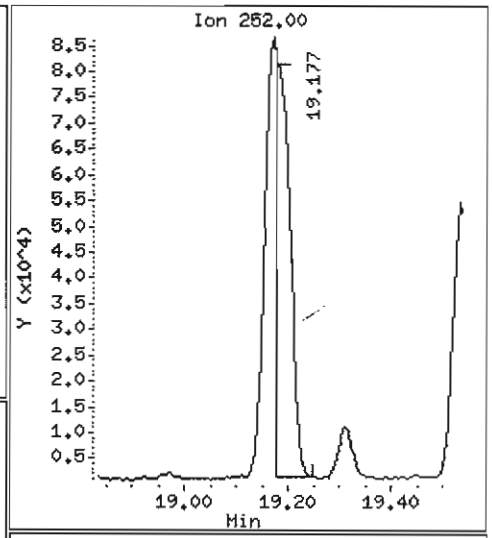
Concentration: 1443 ug/kg

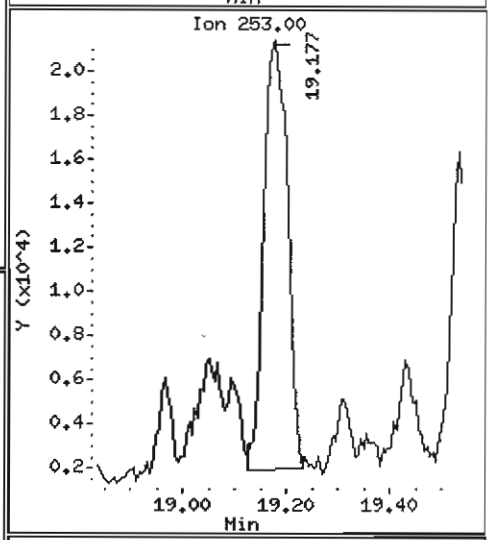


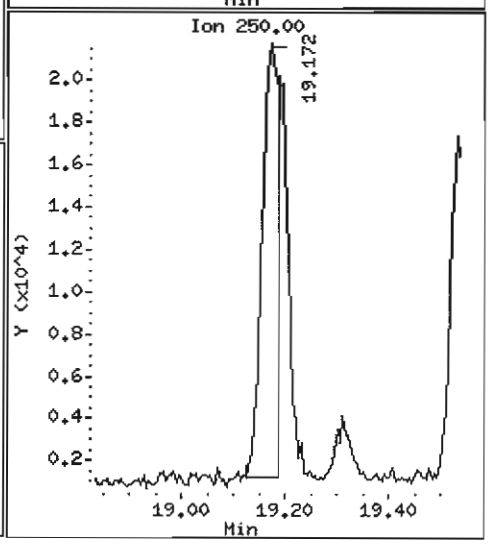












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

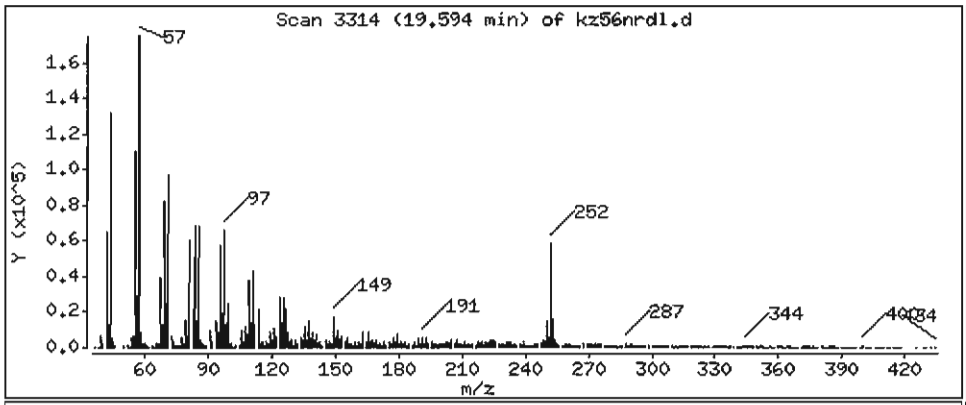
Operator: LJR/VTS

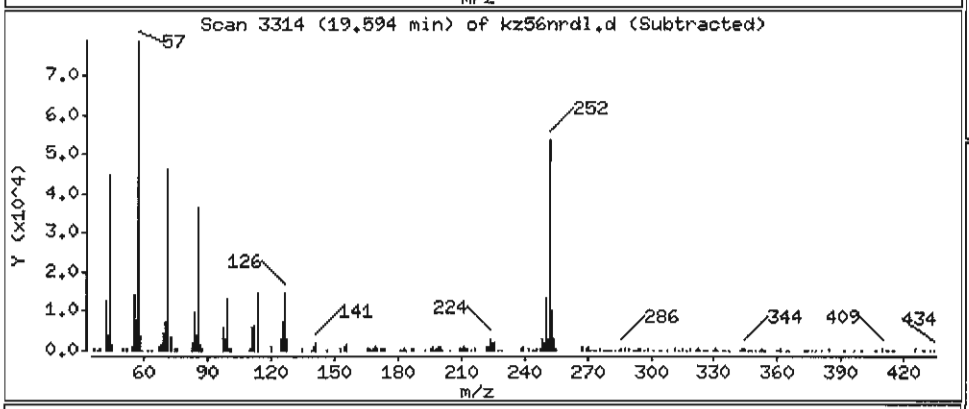
Column phase: ZB-5

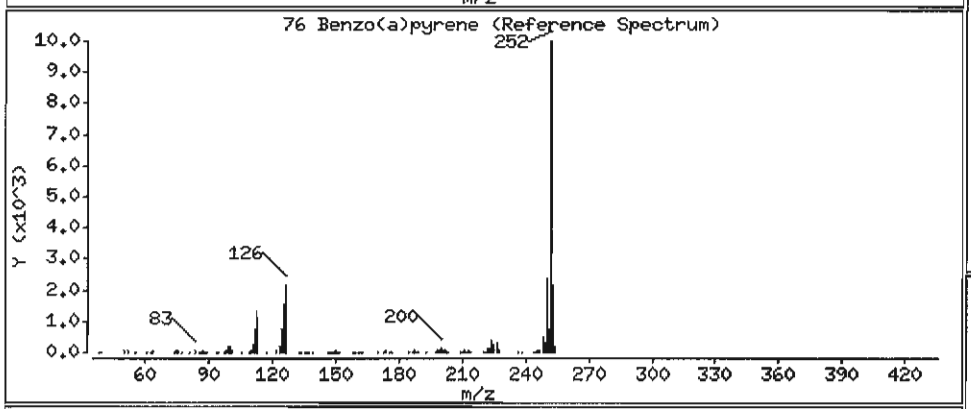
Column diameter: 0.32

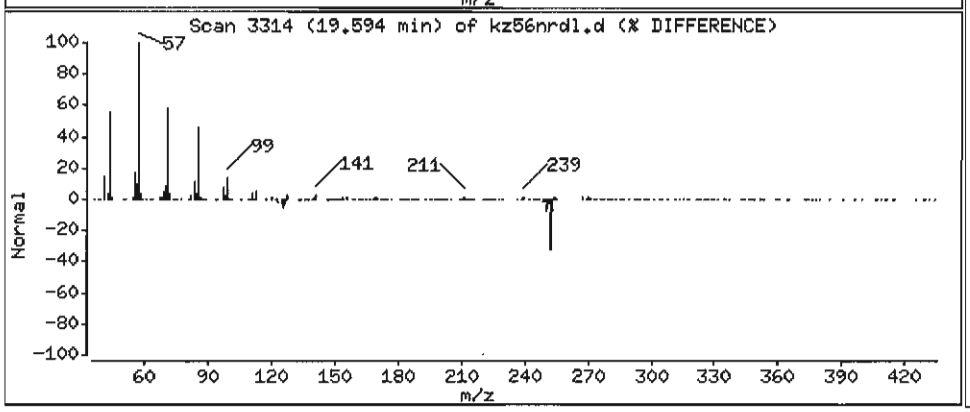
76 Benzo(a)pyrene

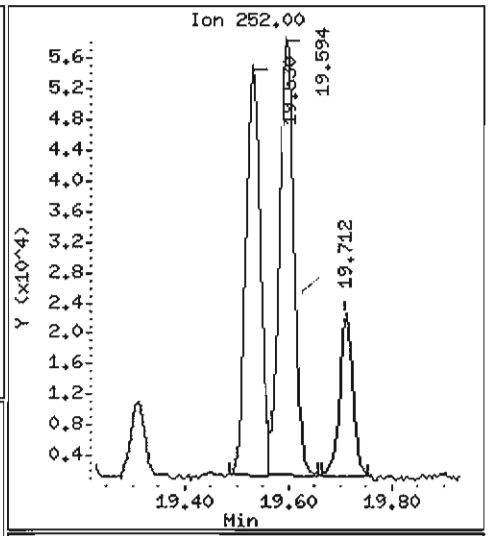
Concentration: 1051 ug/kg

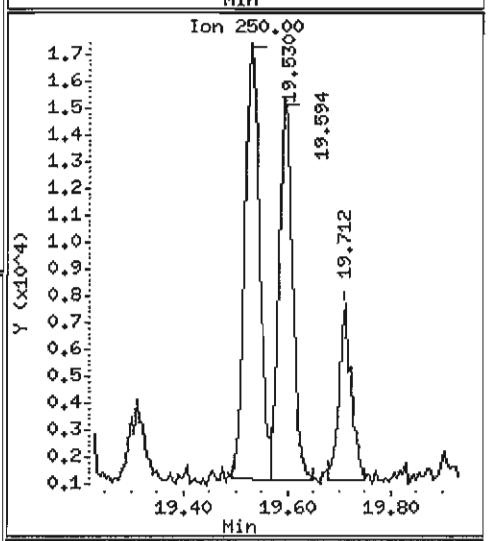


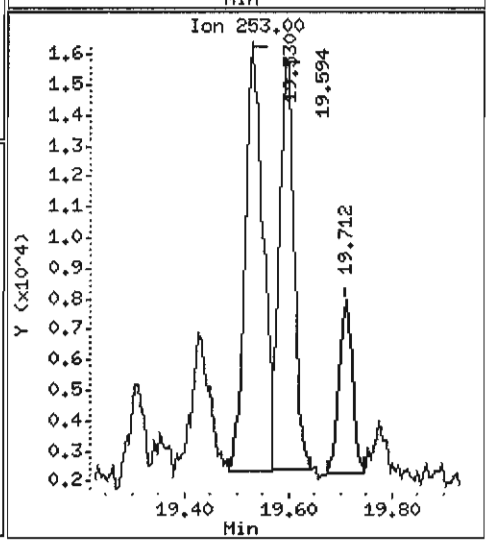












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

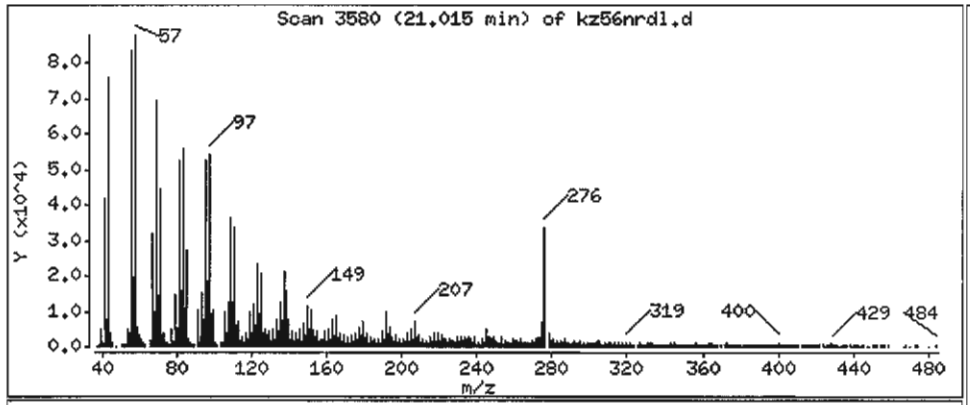
Operator: LJR/VTS

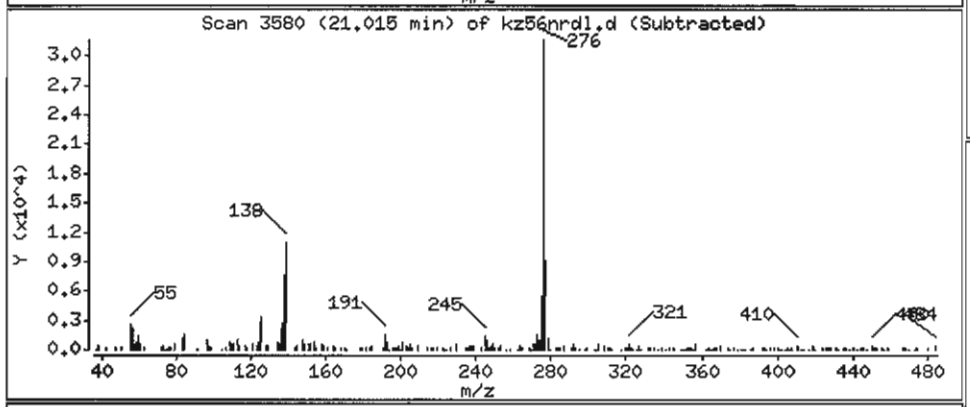
Column phase: ZB-5

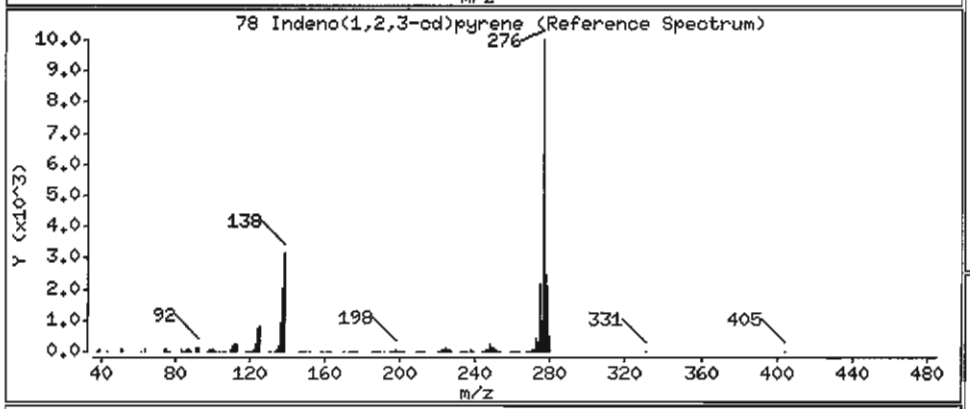
Column diameter: 0.32

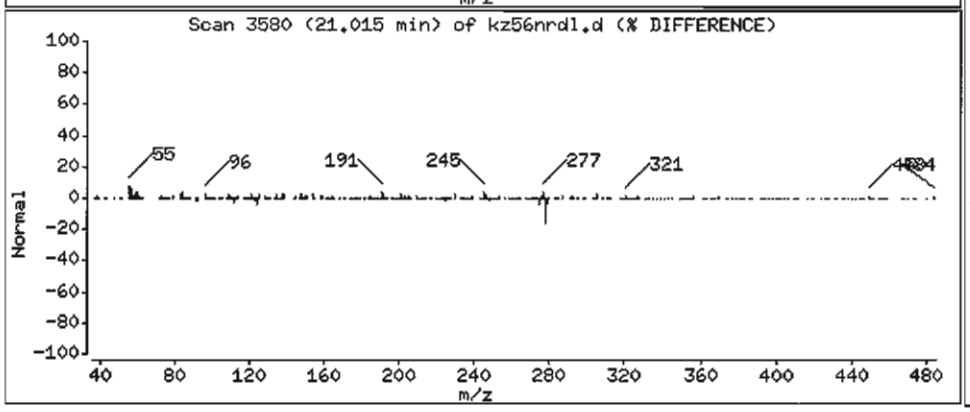
78 Indeno(1,2,3-cd)pyrene

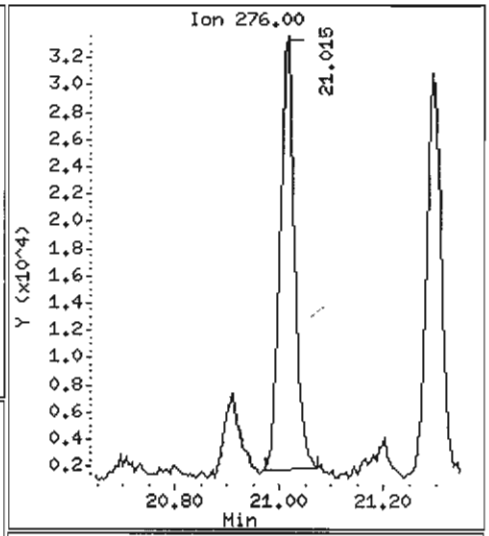
Concentration: 484.2 ug/kg

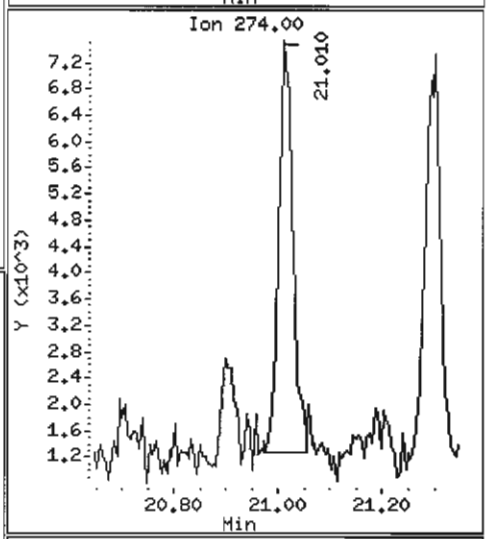


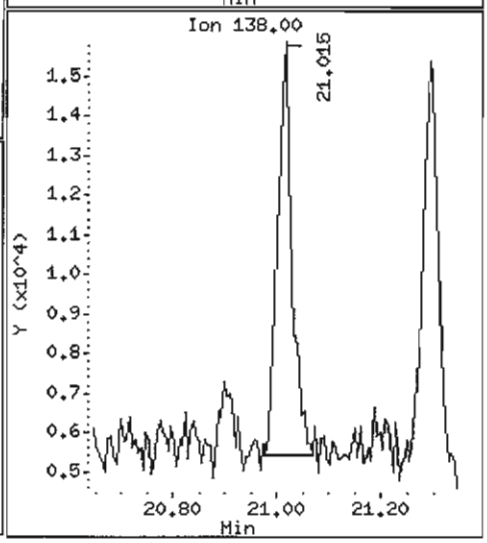












Data File: /chem1/nt6.i/20070606.b/kz56nrdl.d

Date : 06-JUN-2007 18:05

Client ID: Y3-RC04-S

Instrument: nt6.i

Sample Info: KZ56NRE,10

Volume Injected (uL): 1.0

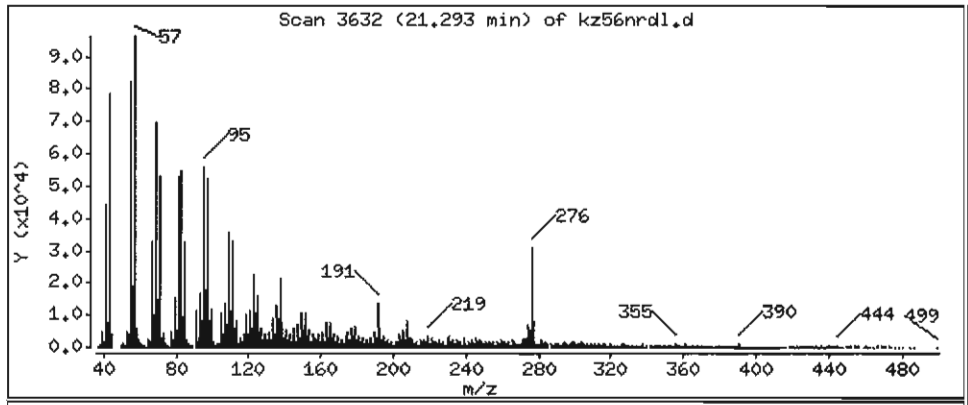
Operator: LJR/VTS

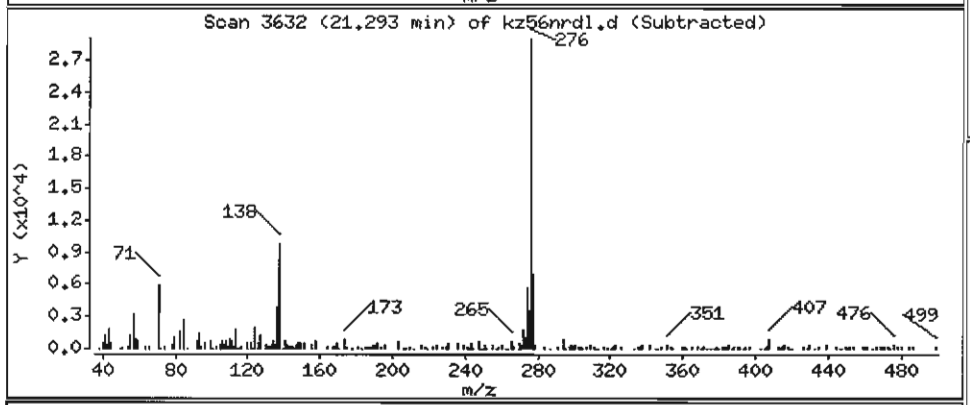
Column phase: ZB-5

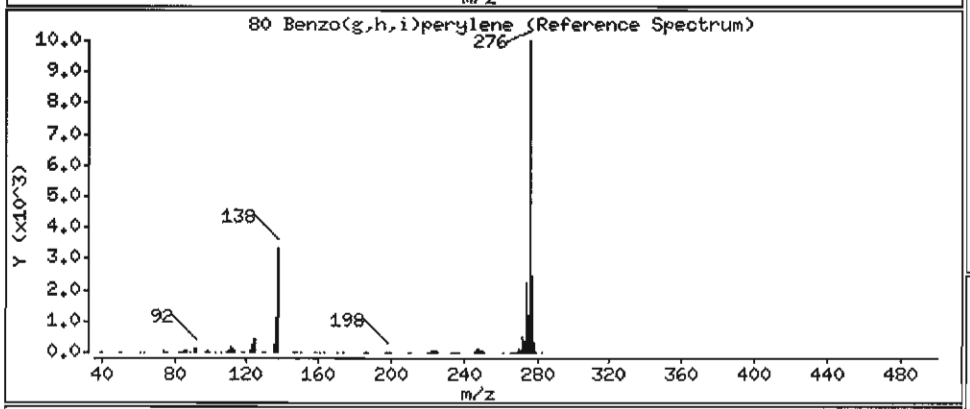
Column diameter: 0.32

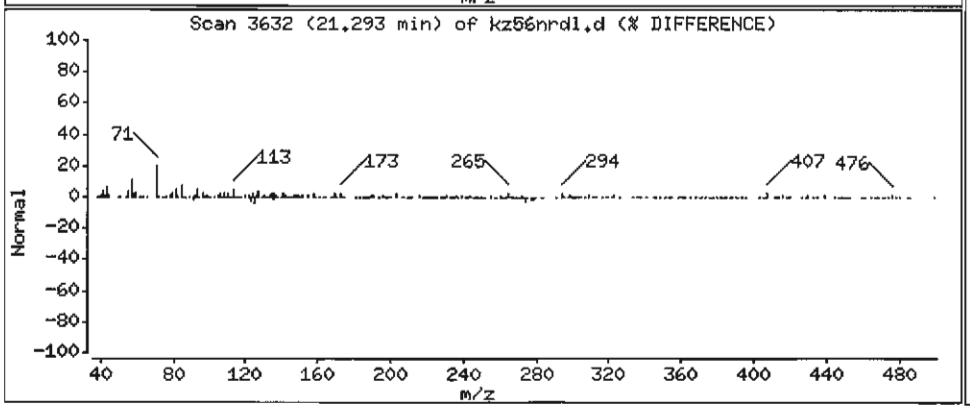
80 Benzo(g,h,i)perylene

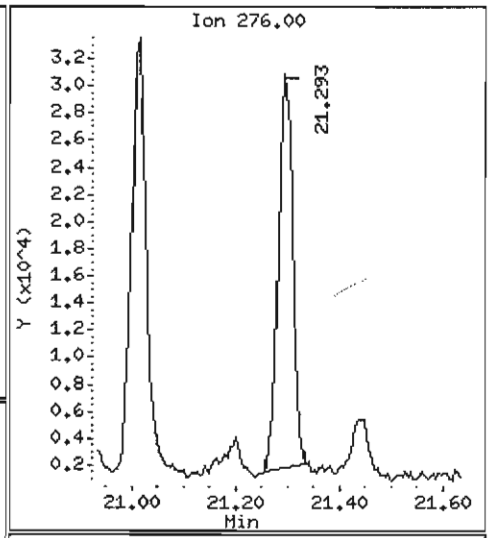
Concentration: 475.5 ug/kg

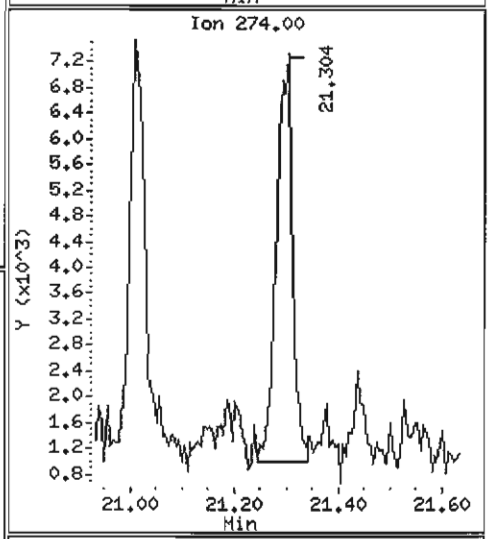


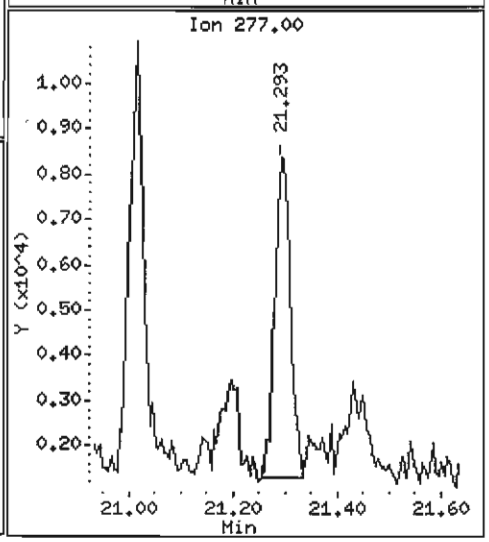












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: Y3-RB-01
SAMPLE

Lab Sample ID: KZ560
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/21/07
Date Analyzed: 05/25/07 15:25
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	1.0	< 1.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.2%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	80.8%	d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	71.7%	2-Fluorophenol	67.5%
2,4,6-Tribromophenol	72.5%	d4-2-Chlorophenol	72.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070525.b/kz56o.d
Lab Smp Id: KZ56O Client Smp ID: Y3-RB-01
Inj Date : 25-MAY-2007 15:25
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56O
Misc Info : 07-9561
Comment : 1ul Injection
Method : /chem1/nt6.i/20070525.b/SW846.m
Meth Date : 30-May-2007 10:48 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: LL.sub
Target Version: 3.50

LTK 5/30/07

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	4.982	4.986	(0.724)	491892	25.3257	25.33
$ 2 Phenol-d5	99	6.515	6.524	(0.946)	612206	26.8638	26.86
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.596	6.599	(0.958)	430617	27.3277	27.33
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.884	6.887	(1.000)	213631	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.178	7.181	(1.043)	169713	17.6130	17.61
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.803	7.811	(0.877)	370194	19.8228	19.82
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.898	8.907	(1.000)	784837	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.698	10.702	(0.912)	465864	17.5503	17.55
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.735	11.738	(1.000)	393306	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.017	13.025	(1.109)	108753	27.1599	27.16
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.085	14.094	(1.000)	547600	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					
$ 66 Terphenyl-d14	244	16.740	16.744	(0.912)	422986	20.2177	20.22
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	Compound Not Detected.					
* 69 Chrysene-d12	240	18.364	18.373	(1.000)	398168	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	Compound Not Detected.					
72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134 Di-n-octylphthalate-d4	153	19.582	19.586	(1.000)	619287	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	Compound Not Detected.					
75 Benzo(k)fluoranthene	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.501	20.510	(1.000)	398777	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56o.d
Lab Smp Id: KZ56O
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9561

Calibration Date: 25-MAY-2007
Calibration Time: 10:59
Client Smp ID: Y3-RB-01
Level: LOW
Sample Type: Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	198067	99034	396134	213631	7.86
27 Naphthalene-d8	714729	357364	1429458	784837	9.81
42 Acenaphthene-d10	346560	173280	693120	393306	13.49
59 Phenanthrene-d10	502123	251062	1004246	547600	9.06
69 Chrysene-d12	340564	170282	681128	398168	16.91
134 Di-n-octylphthala	567119	283560	1134238	619287	9.20
77 Perylene-d12	376651	188326	753302	398777	5.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.89	6.39	7.39	6.88	-0.05
27 Naphthalene-d8	8.91	8.41	9.41	8.90	-0.10
42 Acenaphthene-d10	11.74	11.24	12.24	11.73	-0.03
59 Phenanthrene-d10	14.09	13.59	14.59	14.09	-0.06
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.05
134 Di-n-octylphthala	19.59	19.09	20.09	19.58	-0.02
77 Perylene-d12	20.51	20.01	21.01	20.50	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech, Inc.
Sample Matrix: LIQUID
Lab Smp Id: KZ56O
Level: LOW
Data Type: MS DATA
SpikeList File: SONICLCS.spk
Sublist File: LL.sub
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9561

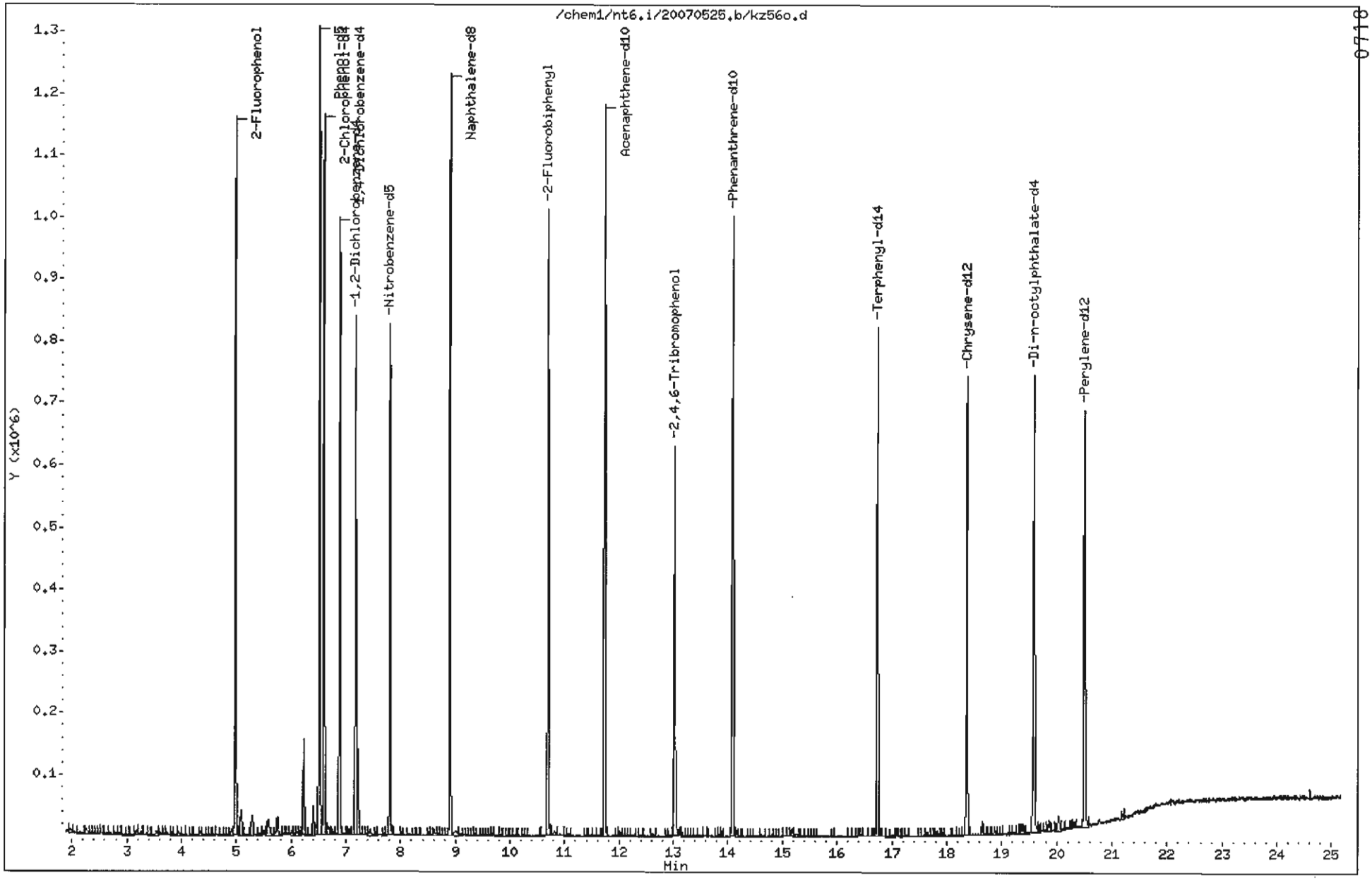
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RB-01
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	37.50	25.33	67.54	27-113
$ 2 Phenol-d5	37.50	26.86	71.64	42-98
$ 5 2-Chlorophenol-d4	37.50	27.33	72.87	47-102
$ 10 1,2-Dichlorobenzen	25.00	17.61	70.45	36-81
$ 18 Nitrobenzene-d5	25.00	19.82	79.29	51-103
$ 36 2-Fluorobiphenyl	25.00	17.55	70.20	39-95
$ 55 2,4,6-Tribromophen	37.50	27.16	72.43	47-110
$ 66 Terphenyl-d14	25.00	20.22	80.87	28-114

Data File: /chem1/nt6.i/20070525.b/kz56o.d
Date : 25-MAY-2007 15:25
Client ID: Y3-RB-01
Sample Info: KZ56O
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



0718

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC03-S
SAMPLE

Lab Sample ID: KZ56P
LIMS ID: 07-9562
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/29/07 15:26
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 39.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 39.6%
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	76	100
91-57-6	2-Methylnaphthalene	76	39 J
208-96-8	Acenaphthylene	76	< 76 U
83-32-9	Acenaphthene	76	40 J
132-64-9	Dibenzofuran	76	< 76 U
86-73-7	Fluorene	76	< 76 U
85-01-8	Phenanthrene	76	570
120-12-7	Anthracene	76	120
206-44-0	Fluoranthene	76	1,400
129-00-0	Pyrene	76	1,300
56-55-3	Benzo(a)anthracene	76	540
117-81-7	bis(2-Ethylhexyl)phthalate	76	2,600
218-01-9	Chrysene	76	790
205-99-2	Benzo(b)fluoranthene	76	920
207-08-9	Benzo(k)fluoranthene	76	960
50-32-8	Benzo(a)pyrene	76	620
193-39-5	Indeno(1,2,3-cd)pyrene	76	260
53-70-3	Dibenz(a,h)anthracene	76	61 J
191-24-2	Benzo(g,h,i)perylene	76	270

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.7%	2-Fluorobiphenyl	76.4%
d14-p-Terphenyl	72.4%	d4-1,2-Dichlorobenzene	71.4%
d5-Phenol	73.0%	2-Fluorophenol	66.0%
2,4,6-Tribromophenol	74.9%	d4-2-Chlorophenol	74.2%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/kz56p.d
Lab Smp Id: KZ56P Client Smp ID: Y3-RC03-S
Inj Date : 29-MAY-2007 15:26
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56P,3
Misc Info : 07-9562
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:37 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 11
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/30/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	65.10000	Weight of sample extracted (g)
M	39.60000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.928	4.903	(0.724)	170301	8.25294	629.7
$ 2 Phenol-d5	99	6.462	6.447	(0.949)	221037	9.12925	696.5
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.526	6.521	(0.958)	155153	9.26768	707.1
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.809	6.805	(1.000)	226968	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.103	7.093	(1.043)	60940	5.95277	454.2
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.728	7.729	(0.876)	125789	6.55513	500.1
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.823	8.819	(1.000)	806448	20.0000	
	28 Naphthalene	128	8.855	8.851	(1.004)	63213	1.32334	101.0
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	9.971	9.967	(1.130)	12381	0.50989 LOL	38.90
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.623	10.619	(0.911)	175871	6.37014	486.0
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.659	11.655	(1.000)	409074	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.702	11.703	(1.004)	13496	0.52281 LOL	39.89(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.942	12.937	(1.110)	38987	9.36128	714.2
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.010	14.001	(1.000)	539221	20.0000	
	60 Phenanthrene	178	14.042	14.038	(1.002)	270433	7.51500	573.4
	61 Anthracene	178	14.111	14.107	(1.007)	58786	1.58101	120.6
	62 Carbazole	167	14.416	14.412	(1.029)	56103	1.75346	133.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.180	15.165	(1.083)	21743	0.55102 LDL	42.04(M)
64 Fluoranthene	202	15.981	15.956	(1.141)	648778	19.0021	1450
65 Pyrene	202	16.318	16.303	(0.891)	655309	17.0002	1297
$ 66 Terphenyl-d14	244	16.665	16.650	(0.910)	147164	6.02875	460.0
67 Butylbenzylphthalate	149	17.568	17.558	(0.960)	36501	2.01395	153.7(M)
68 Benzo(a)anthracene	228	18.278	18.253	(0.999)	247233	7.12437	543.6
* 69 Chrysene-d12	240	18.305	18.280	(1.000)	464564	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.342	18.322	(1.002)	362949	10.3390	788.8
72 bis(2-Ethylhexyl)phthalate	149	18.593	18.573	(0.952)	808323	34.0601	2599(M)
* 134 Di-n-octylphthalate-d4	153	19.528	19.503	(1.000)	692886	20.0000	
73 Di-n-octylphthalate	149	19.544	19.514	(1.001)	49960	1.21373	92.60(M)
74 Benzo(b)fluoranthene	252	19.945	19.898	(0.975)	297936	12.0464	919.1(M)
75 Benzo(k)fluoranthene	252	19.945	19.930	(0.975)	300190	12.6348	964.0(M)
76 Benzo(a)pyrene	252	20.372	20.336	(0.996)	201858	8.15414	622.1
* 77 Perylene-d12	264	20.458	20.416	(1.000)	381451	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.809	21.768	(1.066)	98939	3.38052	257.9(M)
79 Dibenzo(a,h)anthracene	278	21.831	21.789	(1.067)	19286	0.79561 LDL	60.70(M)
80 Benzo(g,h,i)perylene	276	22.125	22.078	(1.081)	94853	3.53781	269.9(M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56p.d
Lab Smp Id: KZ56P
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9562

Calibration Date: 29-MAY-2007
Calibration Time: 08:47
Client Smp ID: Y3-RC03-S
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	226968	4.26
27 Naphthalene-d8	775413	387706	1550826	806448	4.00
42 Acenaphthene-d10	371068	185534	742136	409074	10.24
59 Phenanthrene-d10	554165	277082	1108330	539221	-2.70
69 Chrysene-d12	436021	218010	872042	464564	6.55
134 Di-n-octylphthala	773344	386672	1546688	692886	-10.40
77 Perylene-d12	622369	311184	1244738	381451	-38.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.81	0.06
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.05
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.04
59 Phenanthrene-d10	14.00	13.50	14.50	14.01	0.07
69 Chrysene-d12	18.28	17.78	18.78	18.31	0.14
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.13
77 Perylene-d12	20.42	19.92	20.92	20.46	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

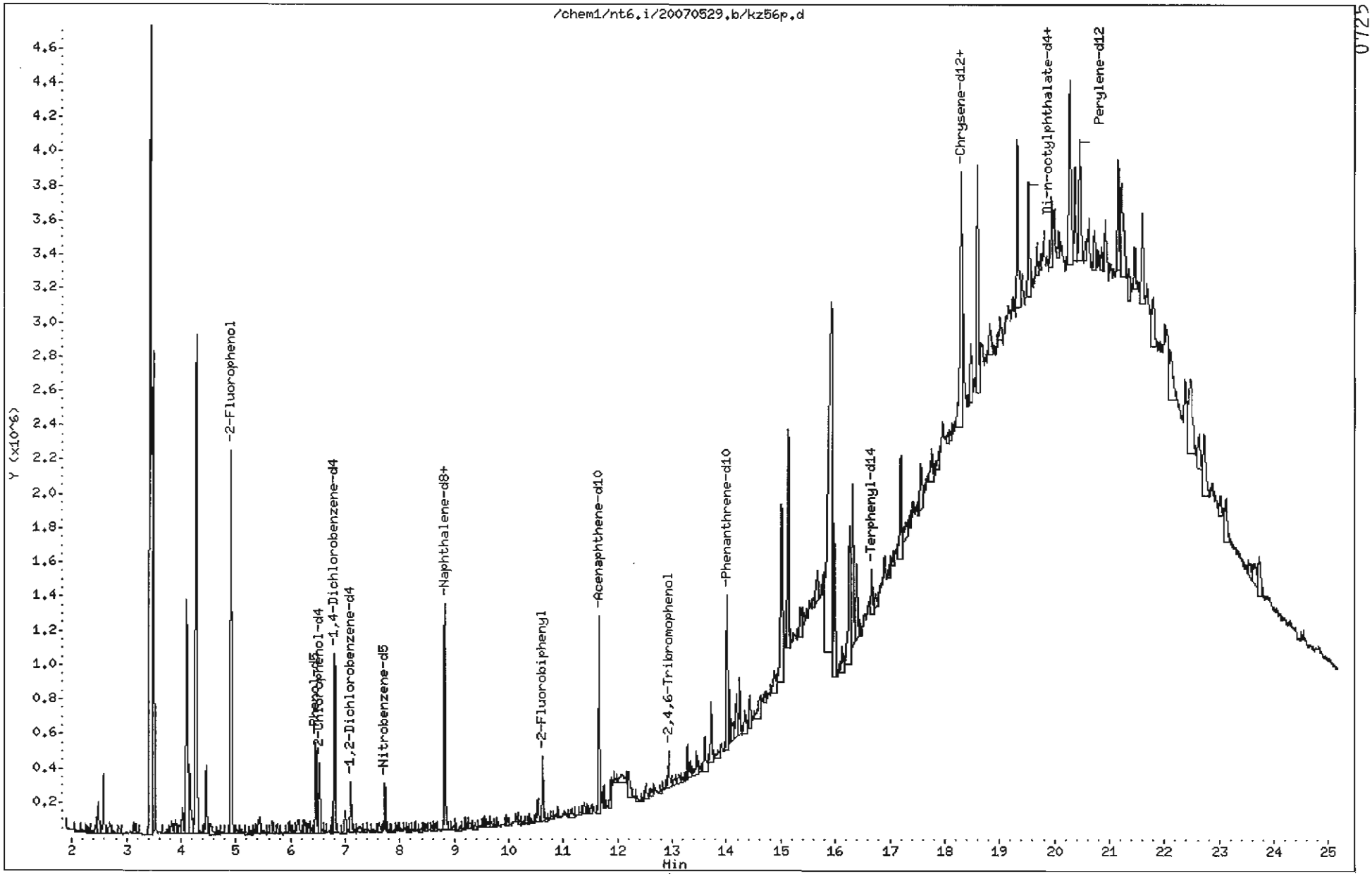
Client Name: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56P
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info: 07-9562

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC03-S
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	953.7	629.7	66.02	11-84
$ 2 Phenol-d5	953.7	696.5	73.03	25-86
$ 5 2-Chlorophenol-d4	953.7	707.1	74.14	23-91
$ 10 1,2-Dichlorobenzen	635.8	454.2	71.43	24-90
$ 18 Nitrobenzene-d5	635.8	500.1	78.66	26-88
$ 36 2-Fluorobiphenyl	635.8	486.0	76.44	34-91
$ 55 2,4,6-Tribromophen	953.7	714.2	74.89	25-107
$ 66 Terphenyl-d14	635.8	460.0	72.35	22-100

Data File: /chem1/nt6.i/20070529.b/kz56p.d
Date : 29-MAY-2007 15:26
Client ID: Y3-RC03-S
Sample Info: KZ56P,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



0725

Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

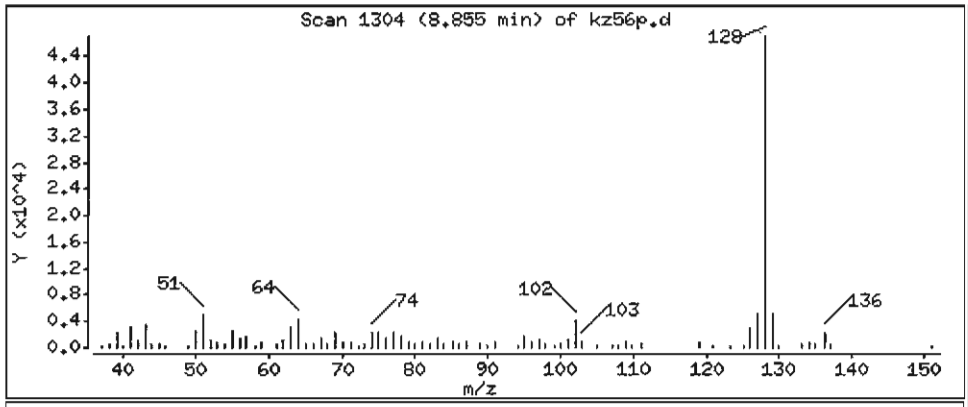
Operator: LJR/VTS

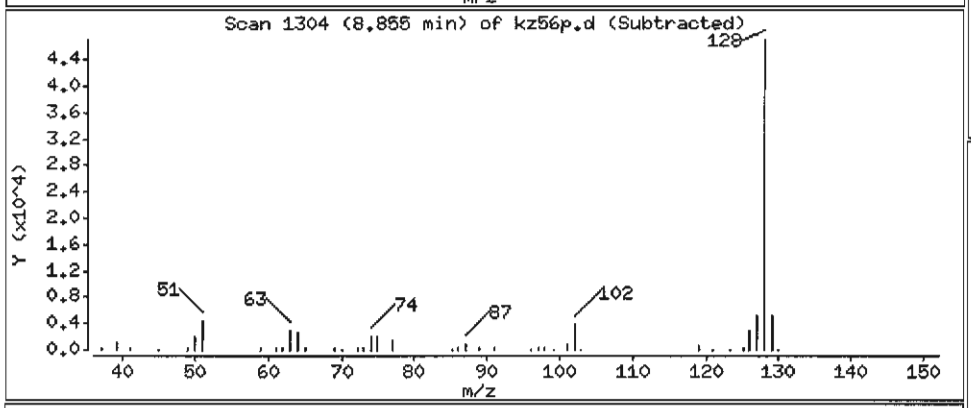
Column phase: ZB-5

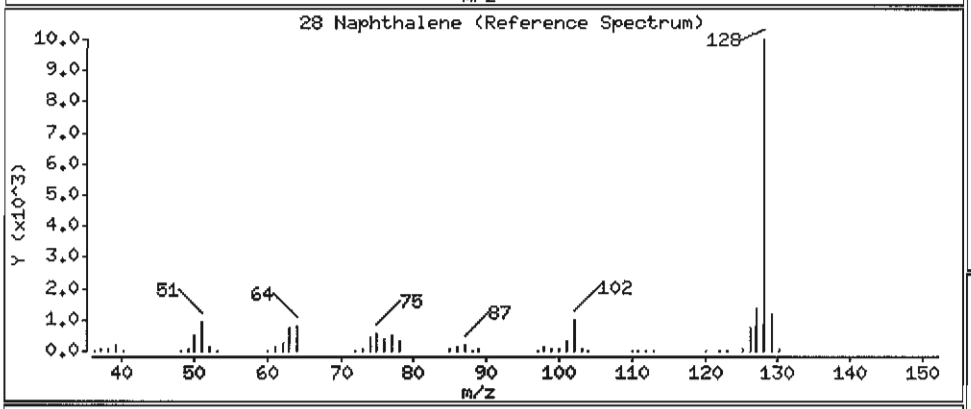
Column diameter: 0.32

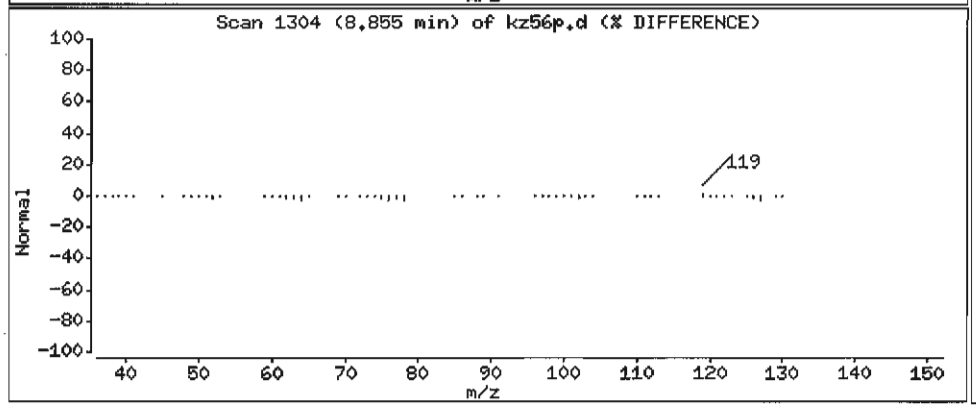
28 Naphthalene

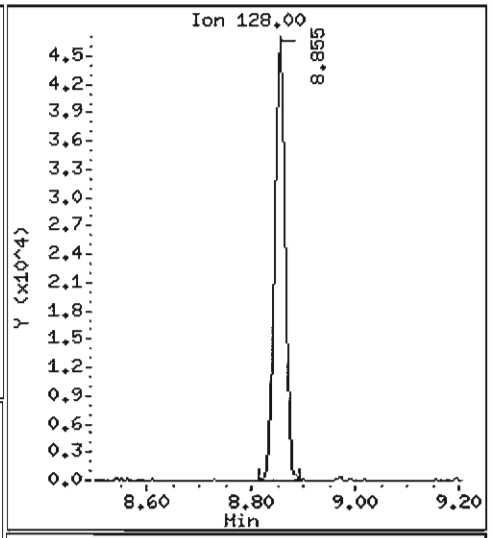
Concentration: 101.0 ug/kg

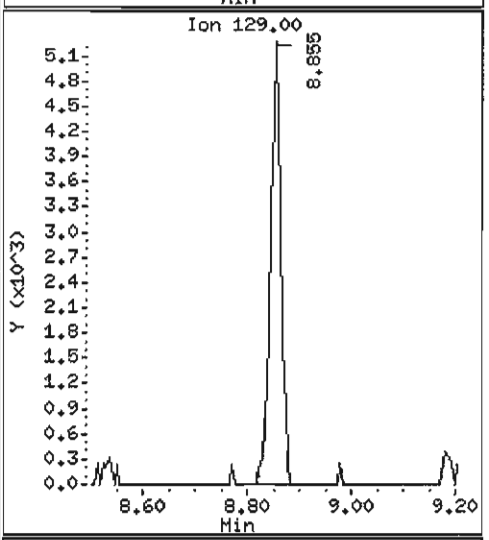


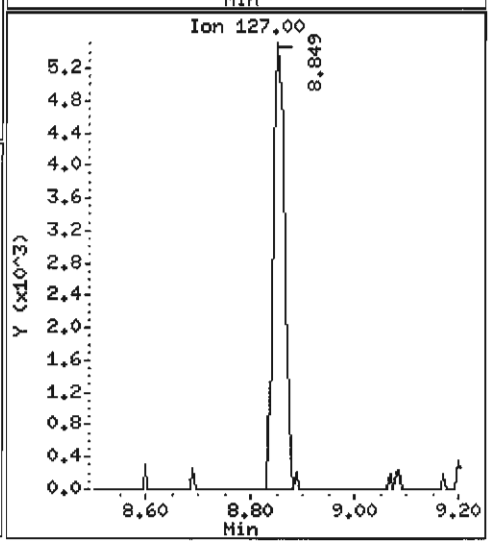












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

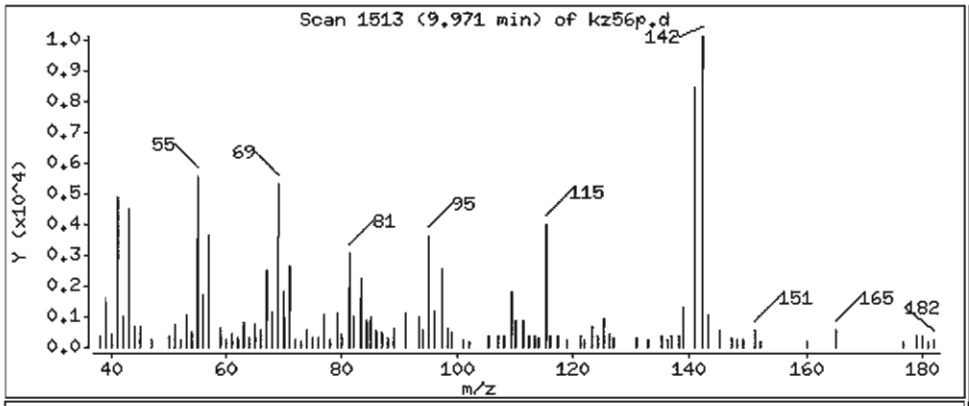
Operator: LJR/VTS

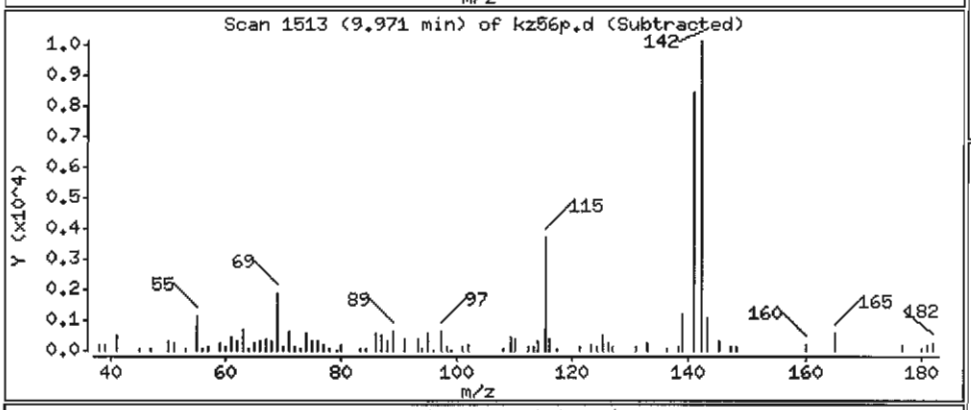
Column phase: ZB-5

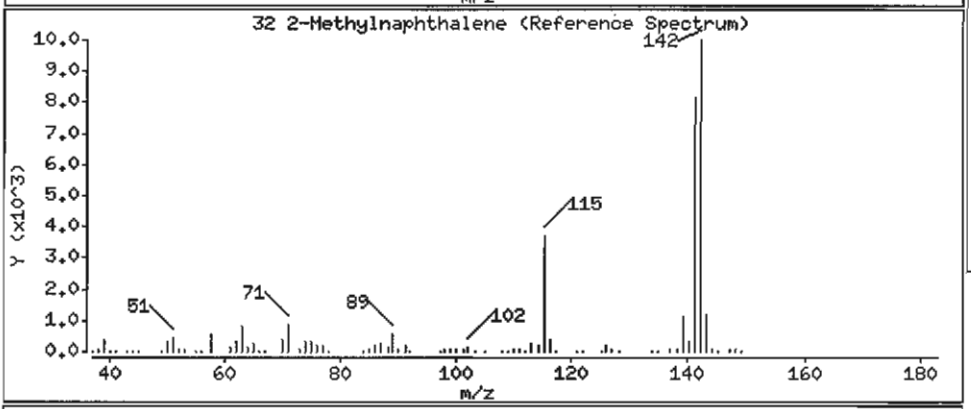
Column diameter: 0.32

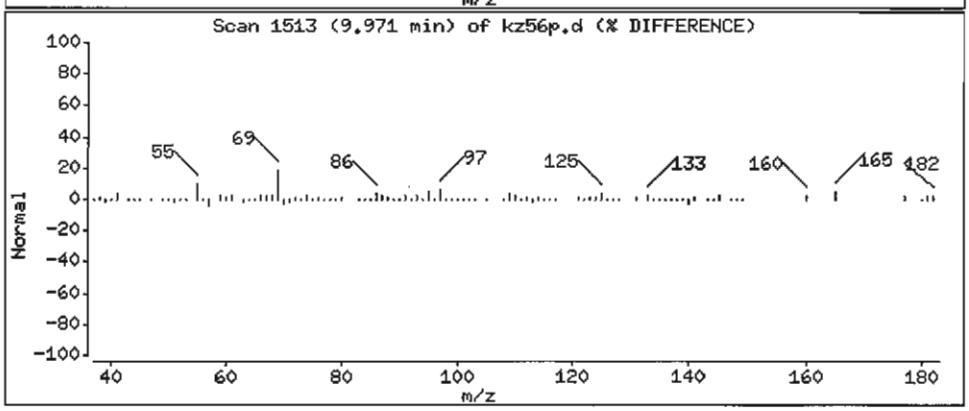
32 2-Methylnaphthalene

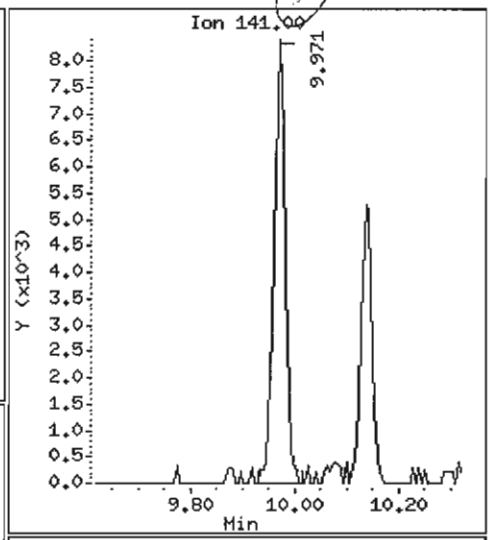
Concentration: 38.90 ug/kg

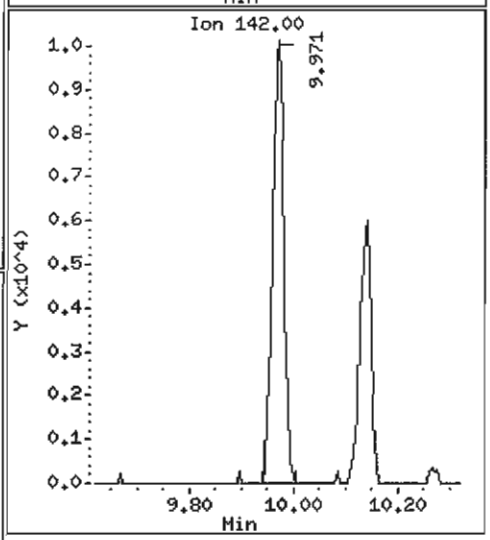












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

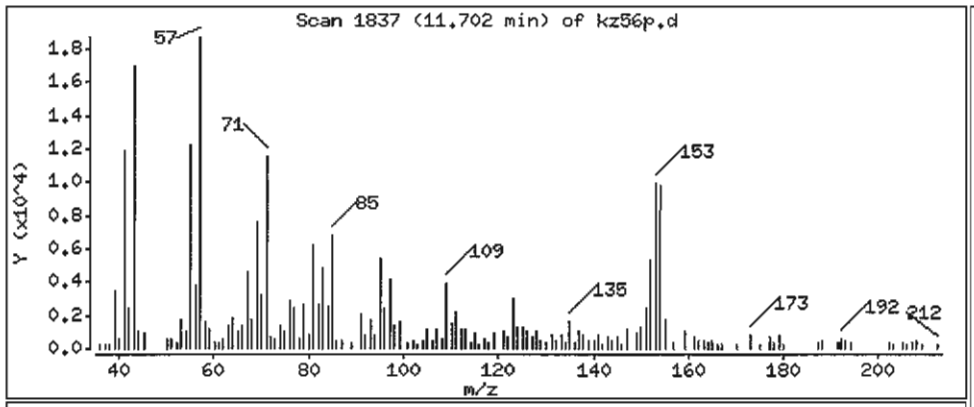
Operator: LJR/VTS

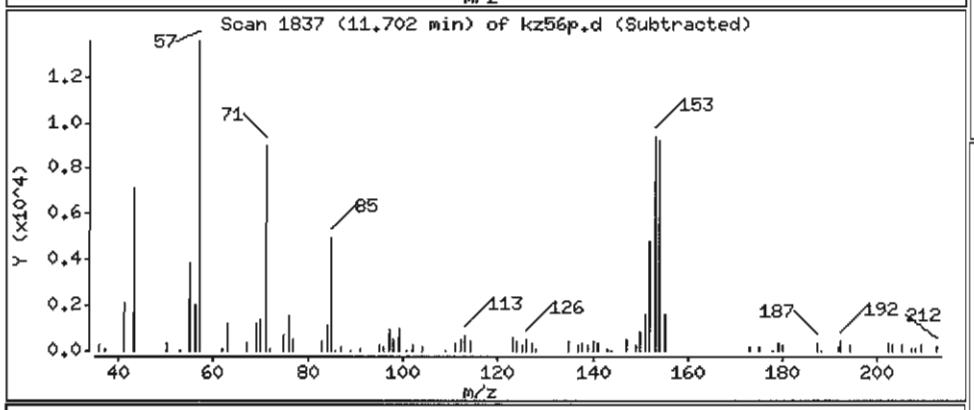
Column phase: ZB-5

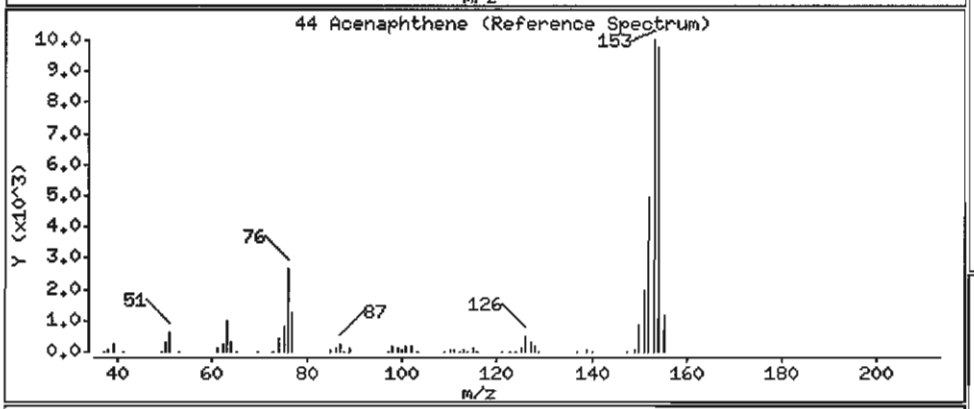
Column diameter: 0.32

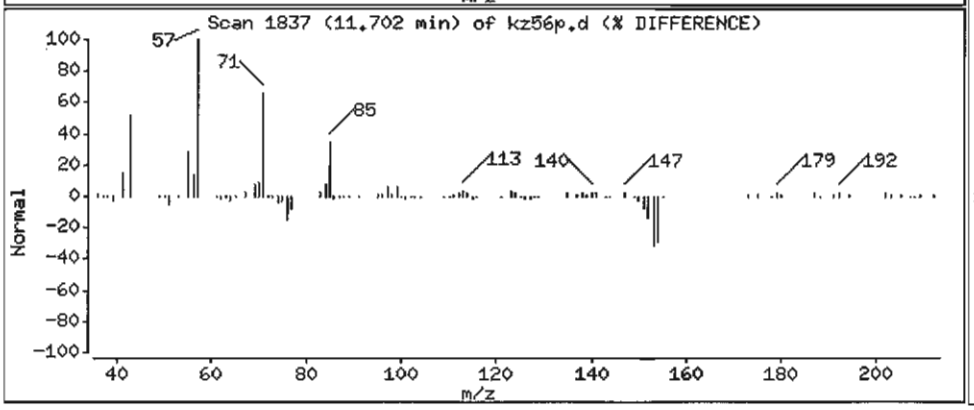
44 Acenaphthene

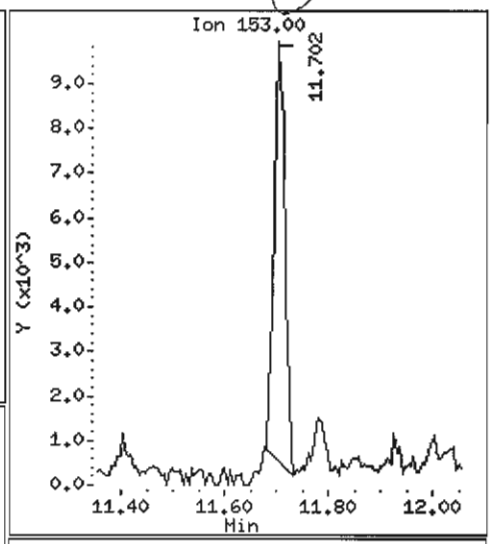
Concentration: 39.89 ug/kg

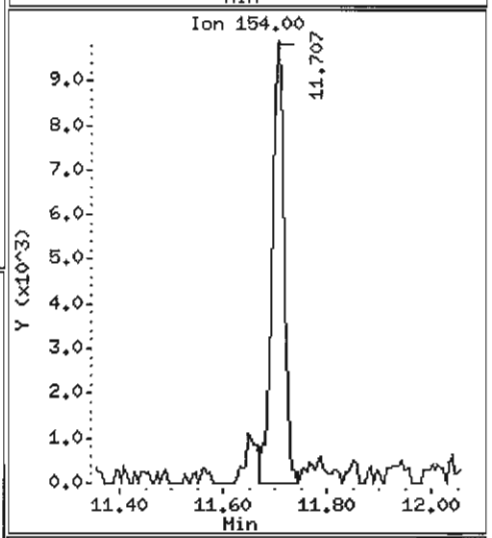


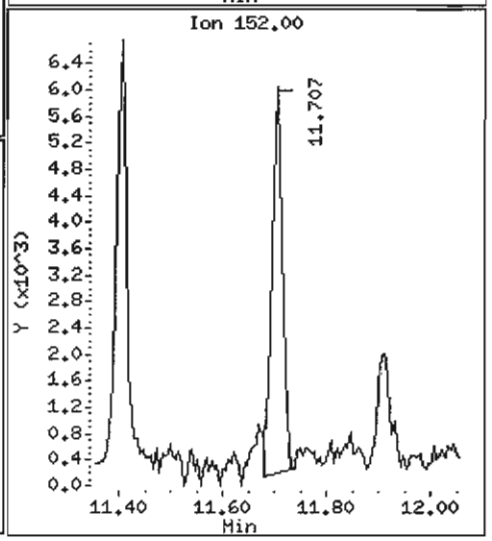












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

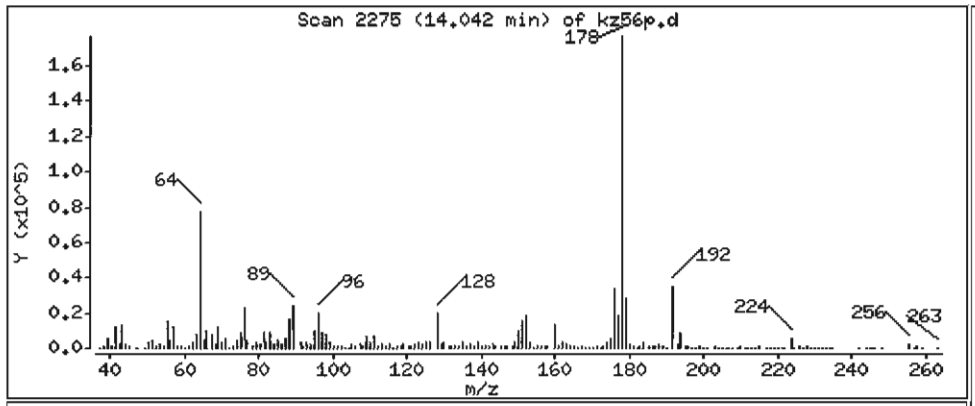
Operator: LJR/VTS

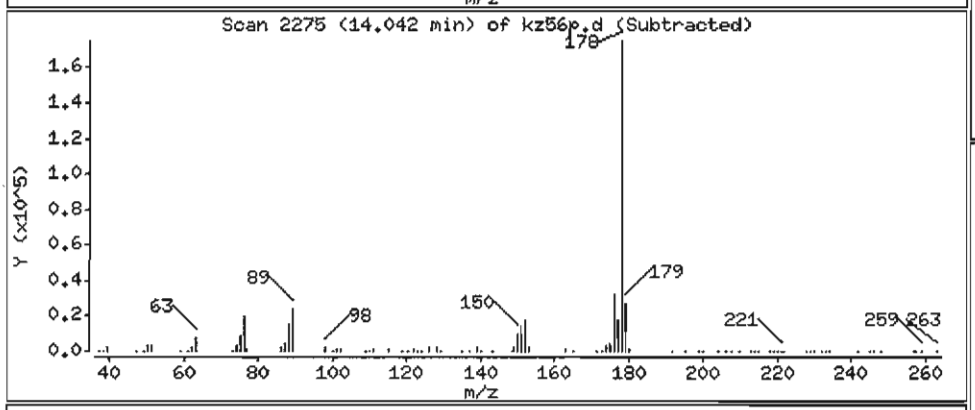
Column phase: ZB-5

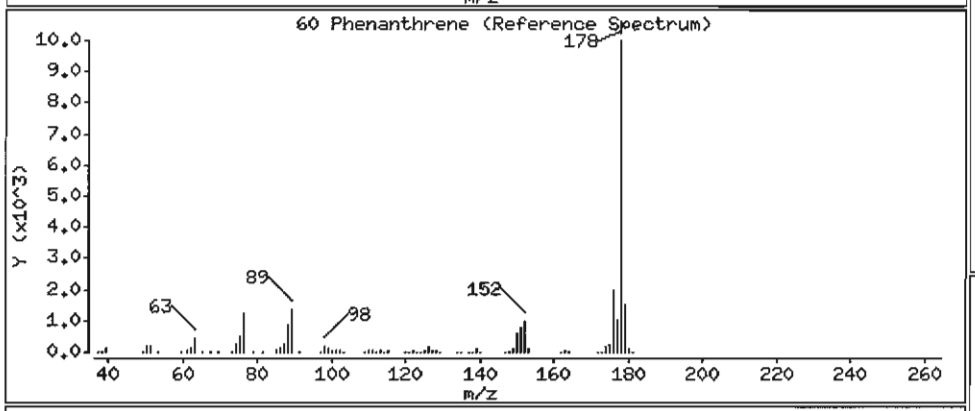
Column diameter: 0.32

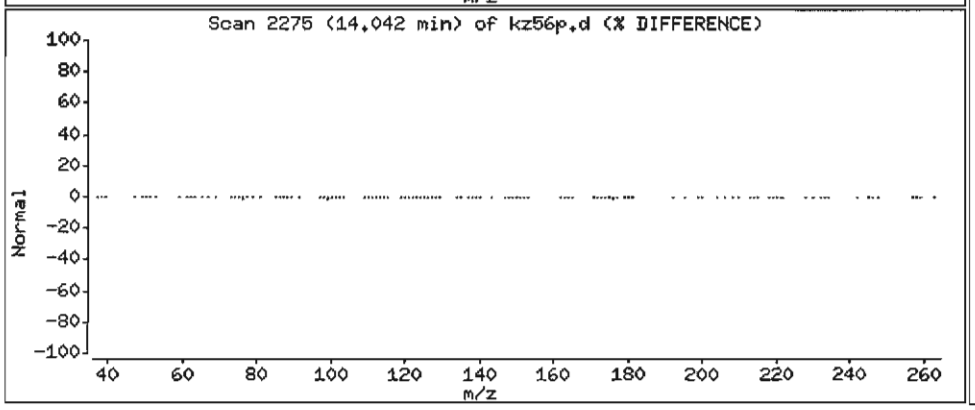
60 Phenanthrene

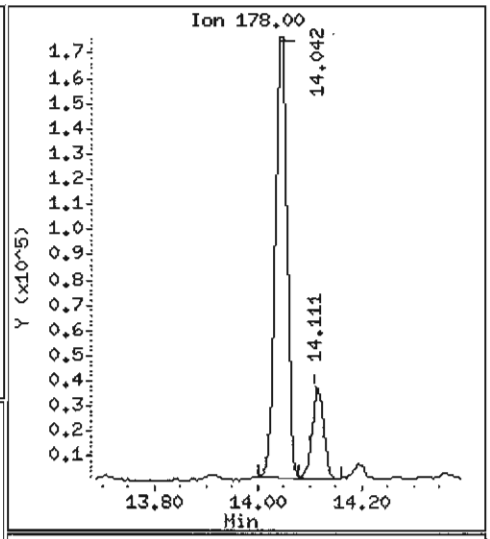
Concentration: 573.4 ug/kg

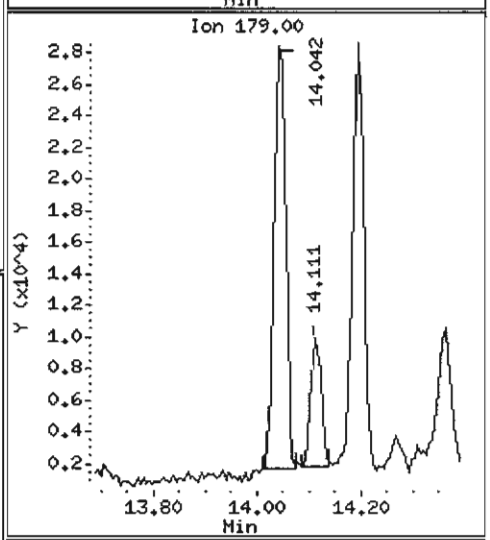


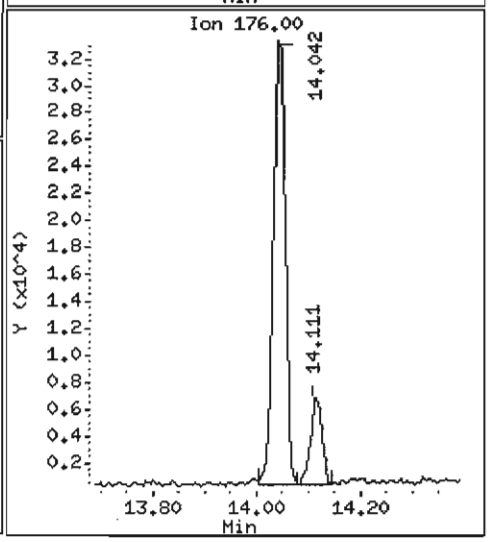












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

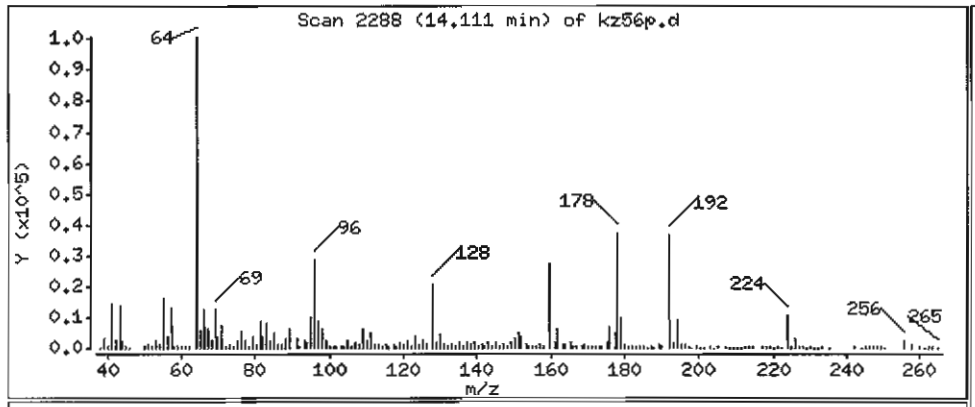
Operator: LJR/VTS

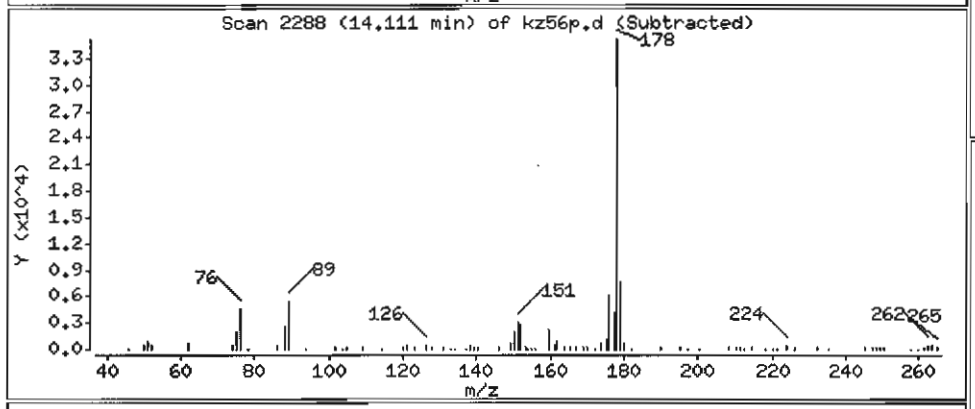
Column phase: ZB-5

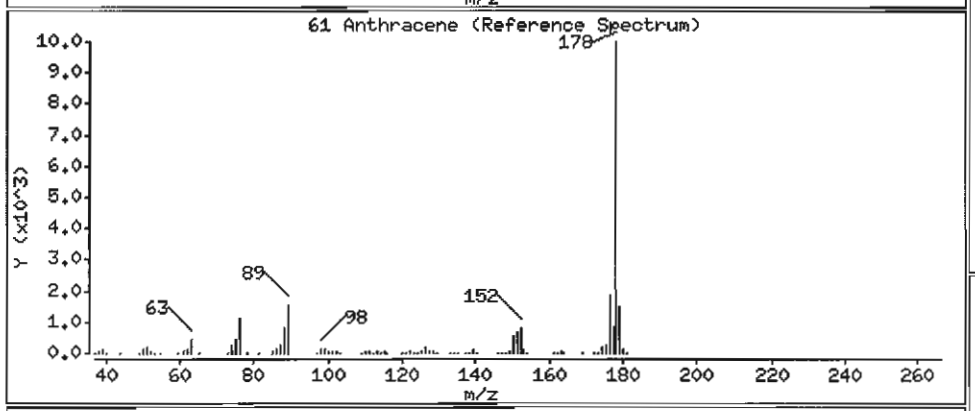
Column diameter: 0.32

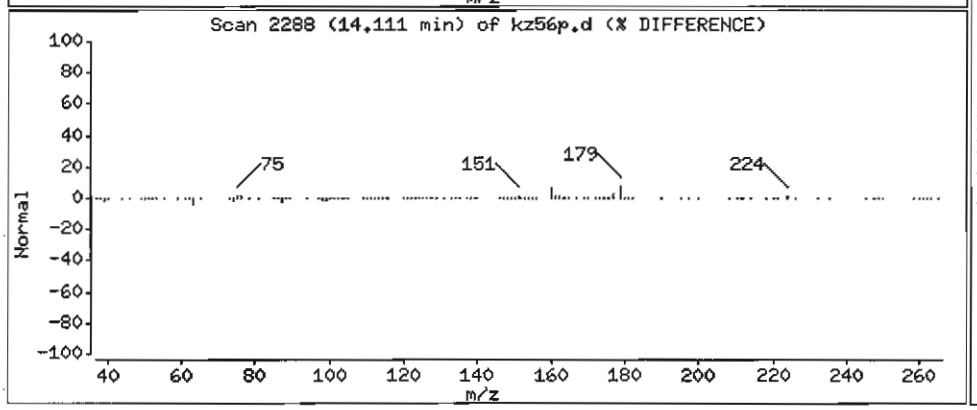
61 Anthracene

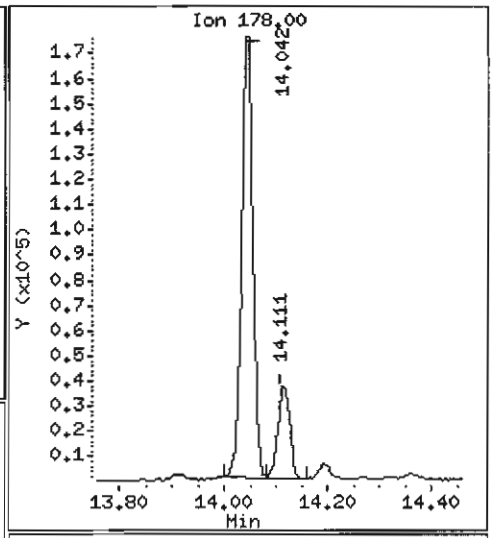
Concentration: 120.6 ug/kg

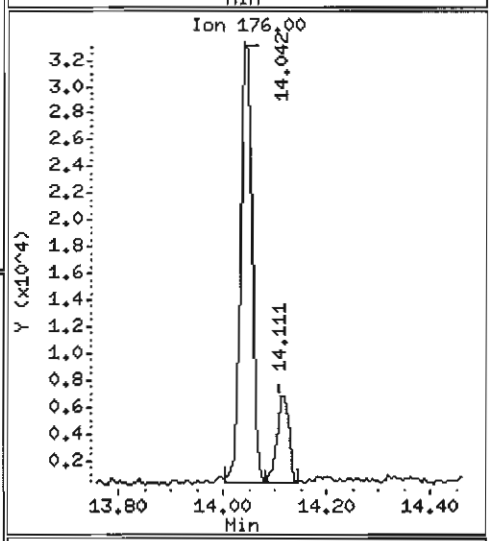


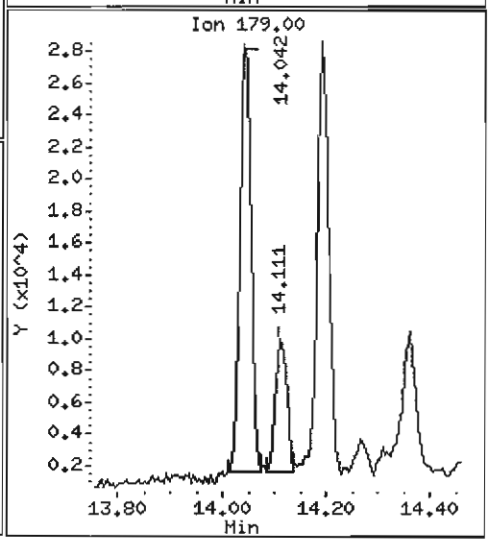












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

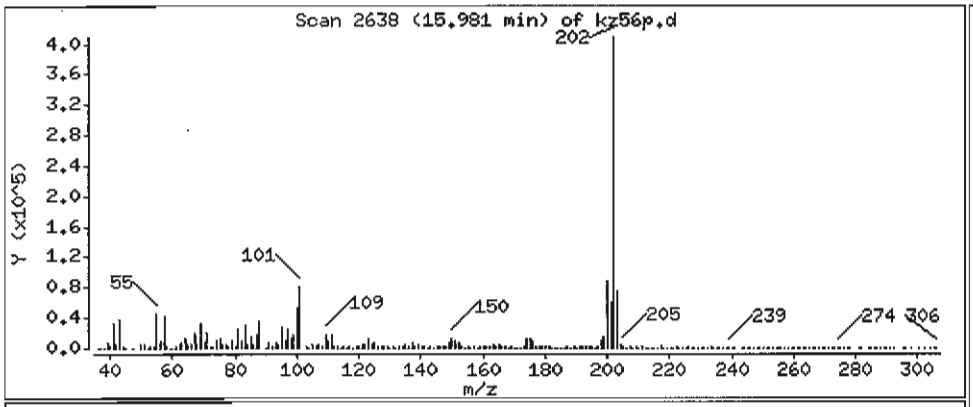
Operator: LJR/VTS

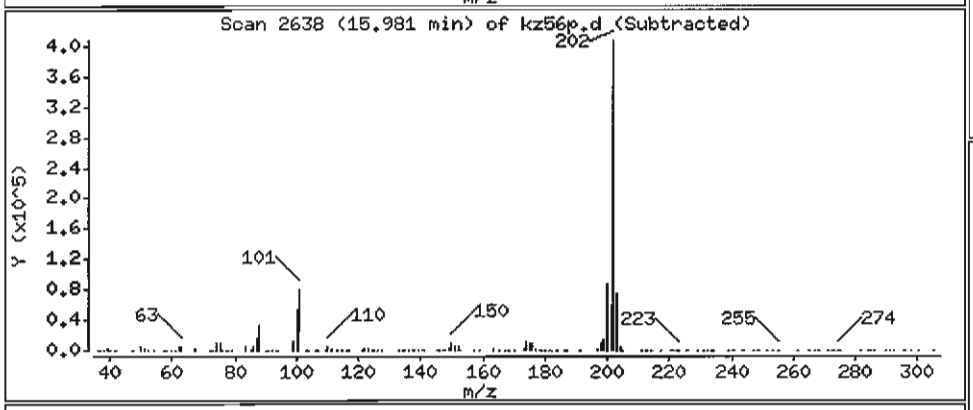
Column phase: ZB-5

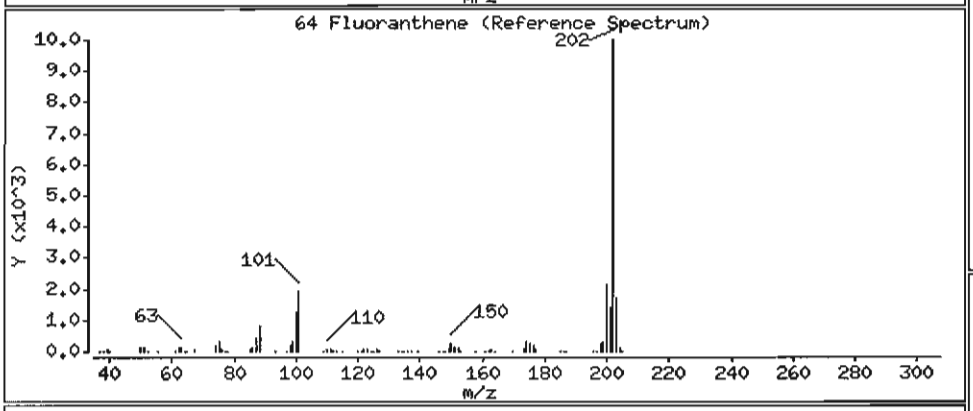
Column diameter: 0.32

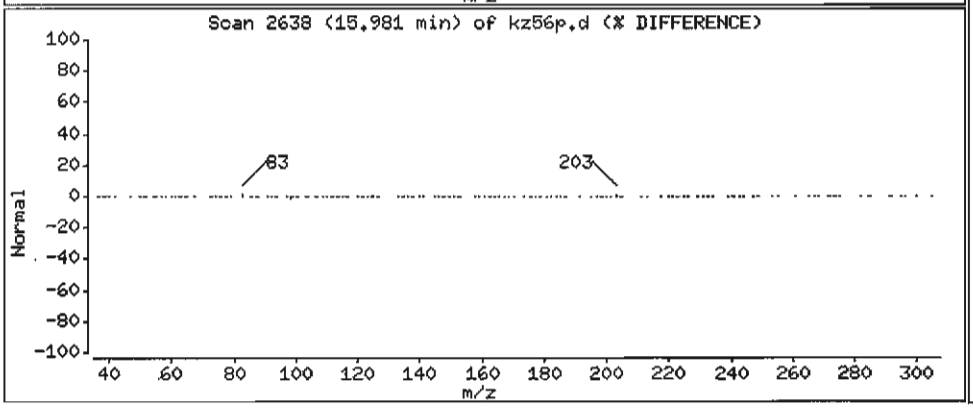
64 Fluoranthene

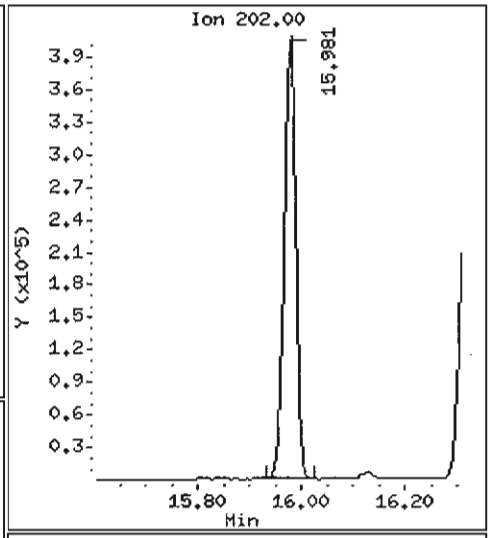
Concentration: 1450 ug/kg

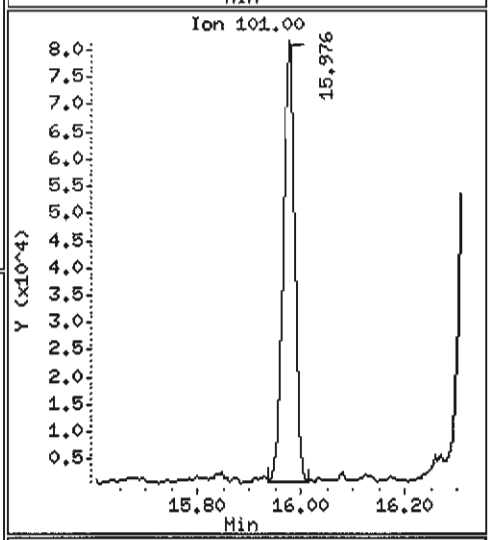


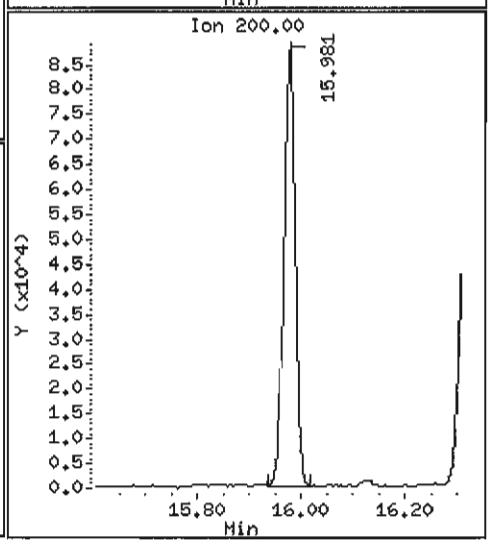












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

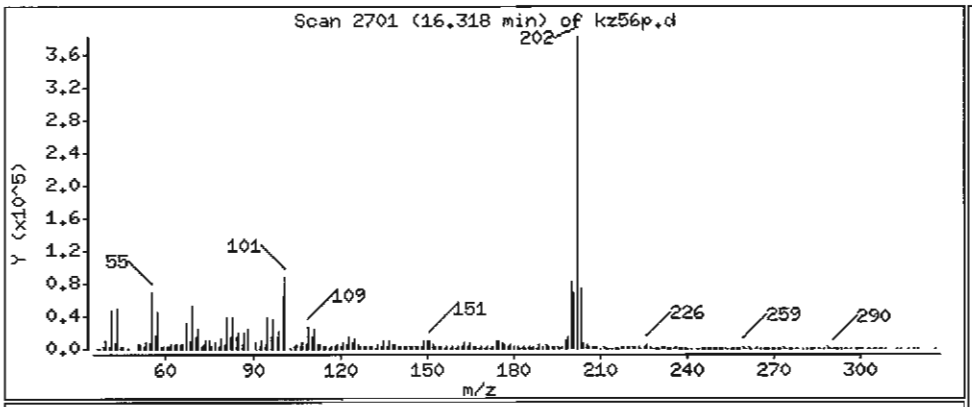
Operator: LJR/VTS

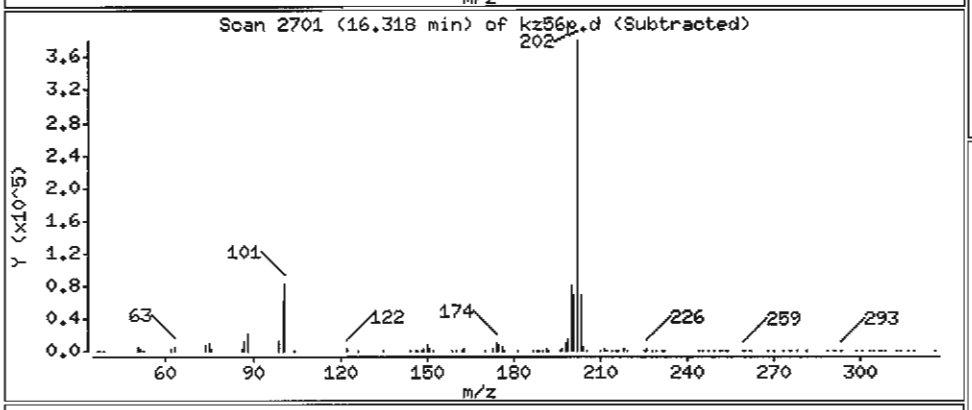
Column phase: ZB-5

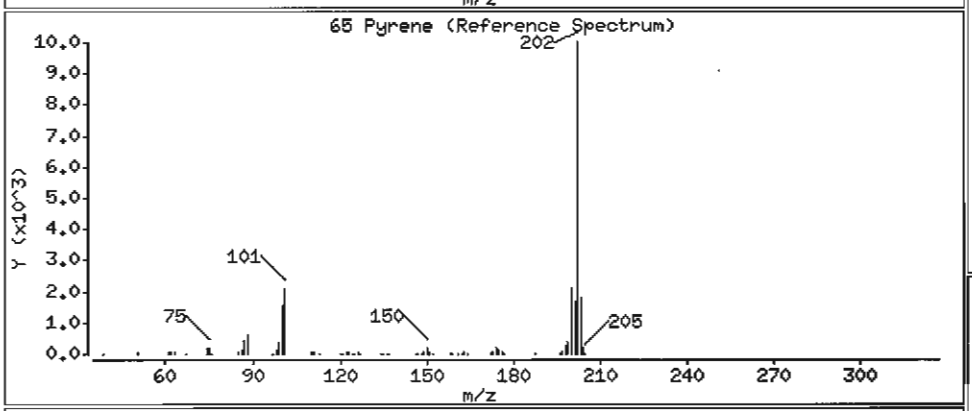
Column diameter: 0.32

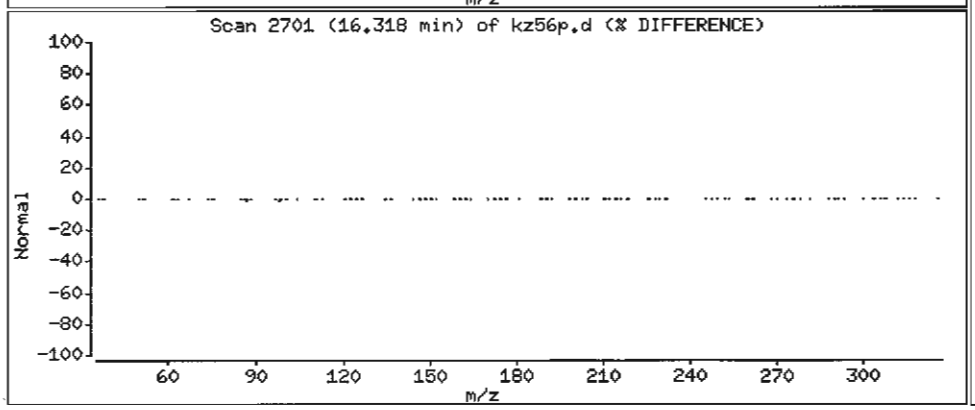
65 Pyrene

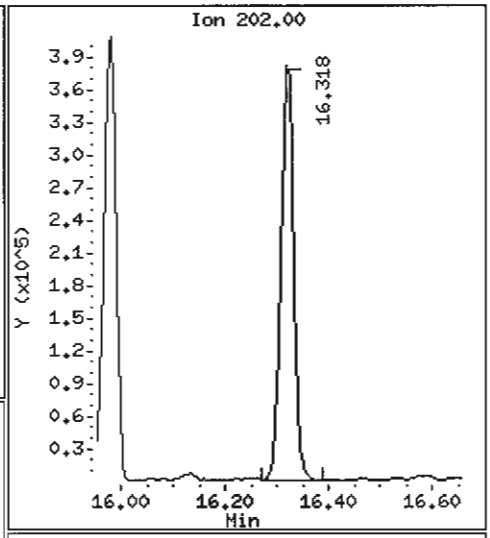
Concentration: 1297 ug/kg

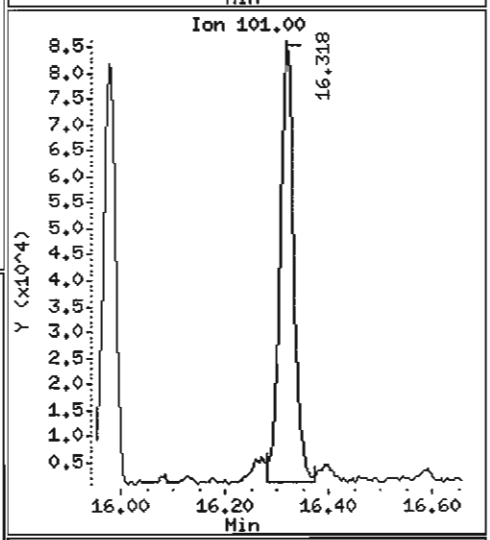


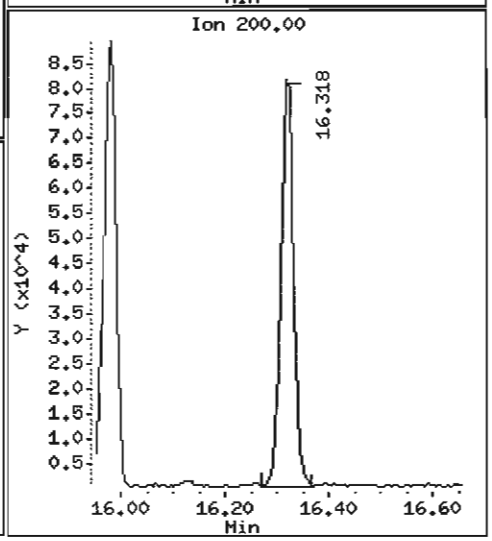












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

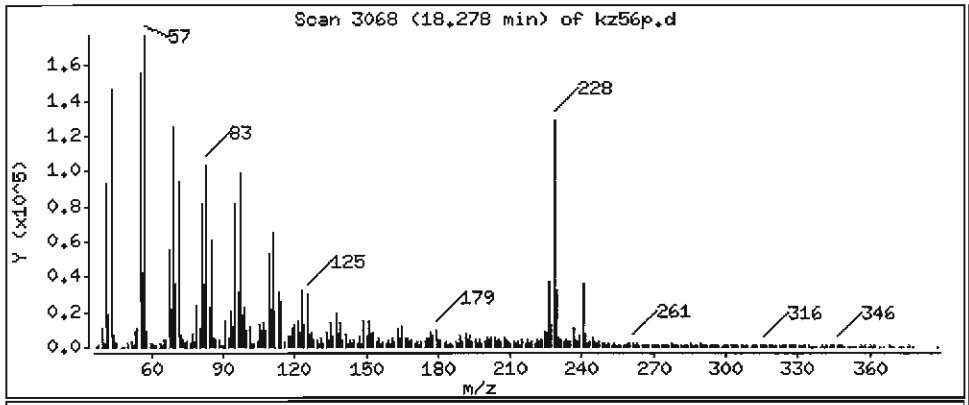
Operator: LJR/VTS

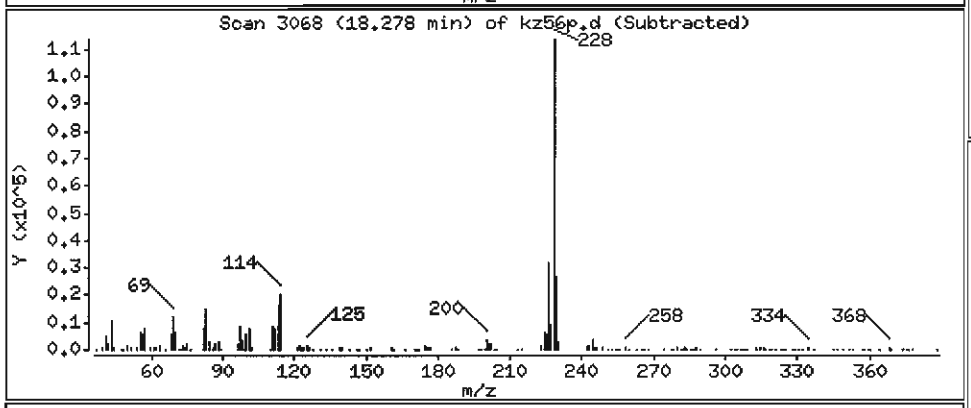
Column phase: ZB-5

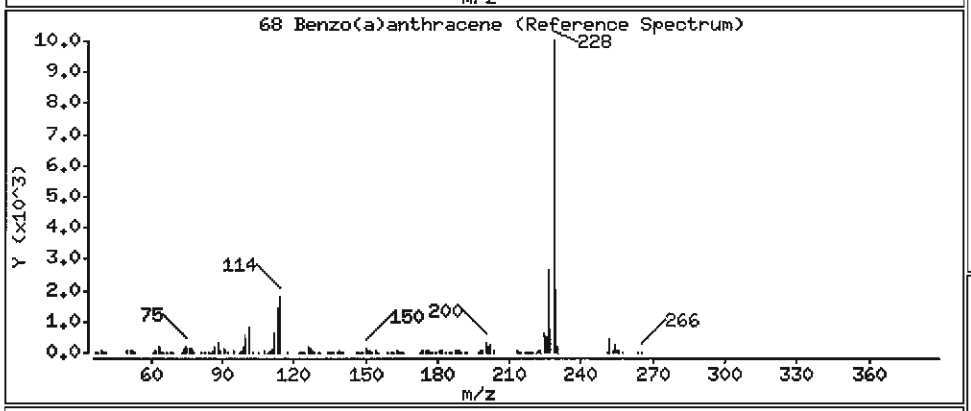
Column diameter: 0.32

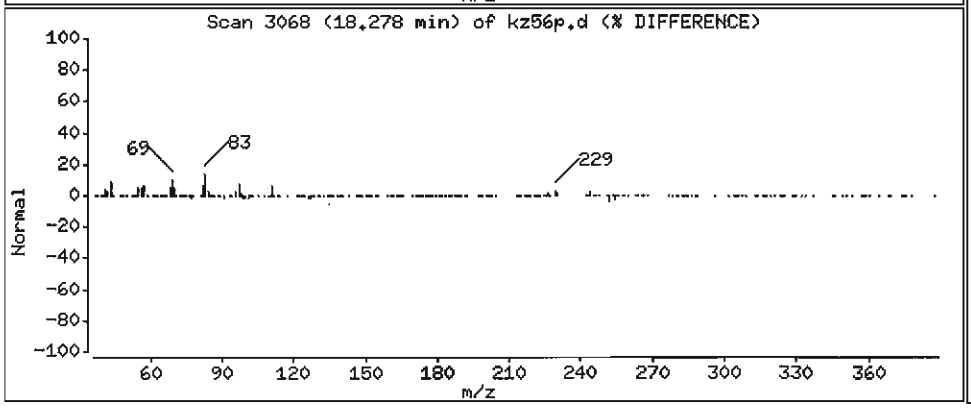
68 Benzo(a)anthracene

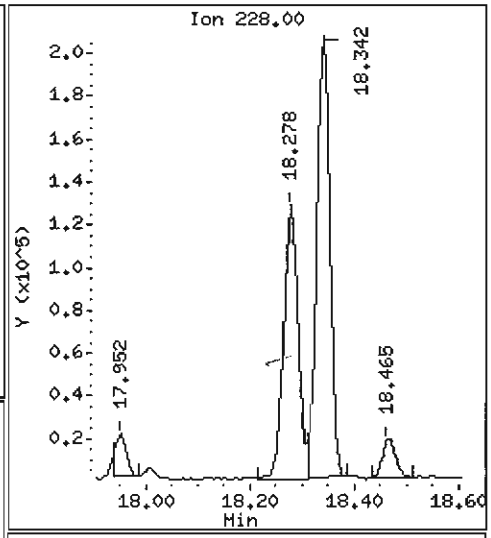
Concentration: 543.6 ug/kg

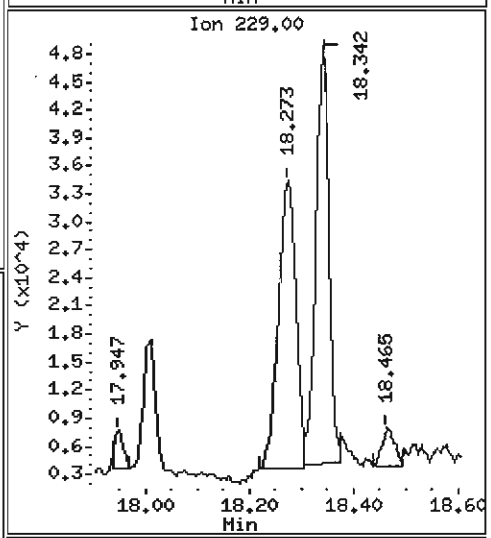


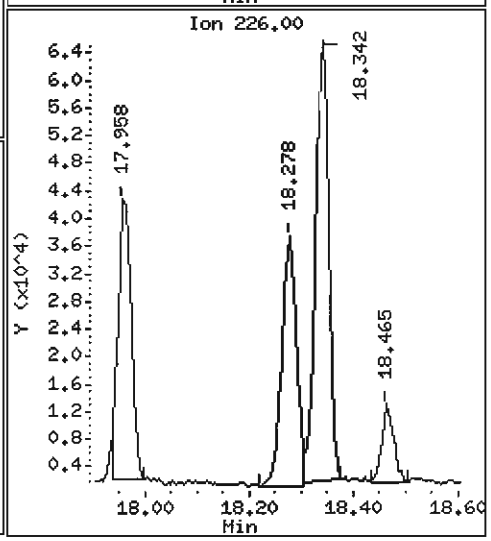












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

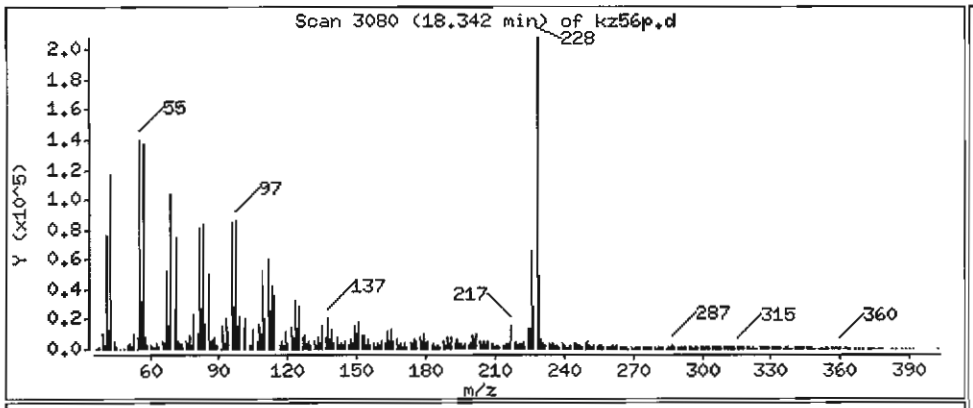
Operator: LJR/VTS

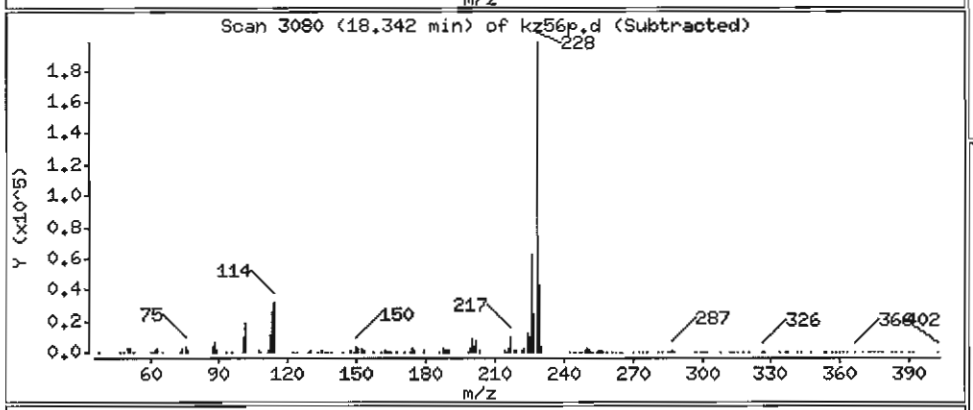
Column phase: ZB-5

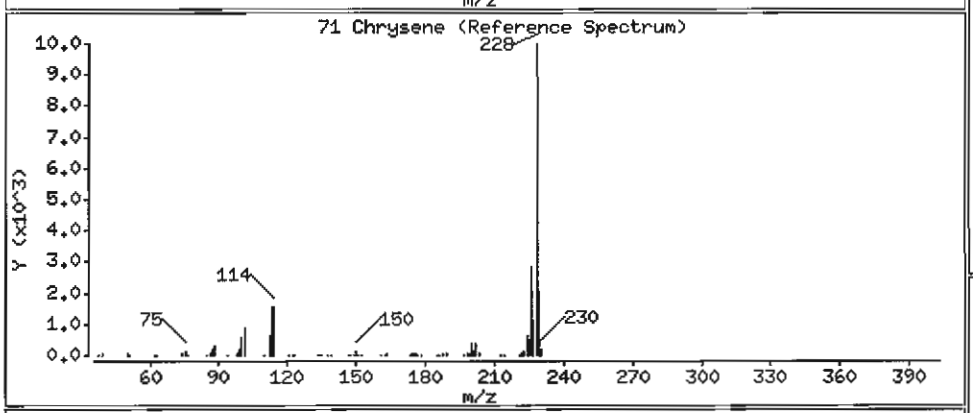
Column diameter: 0.32

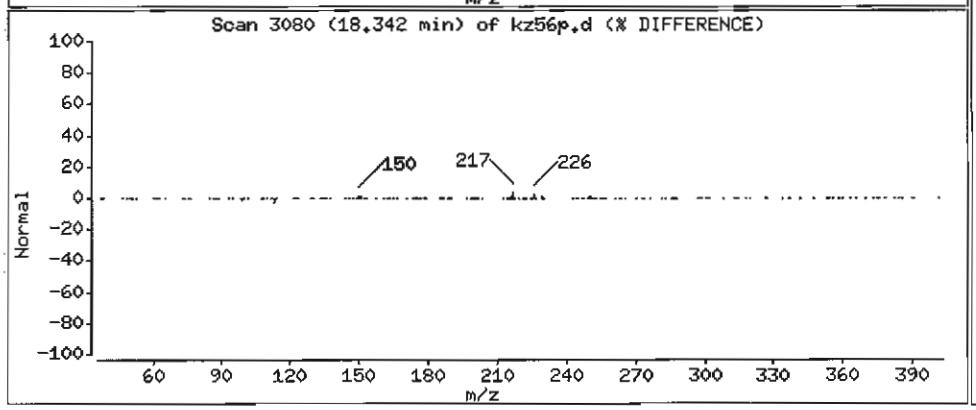
71 Chrysene

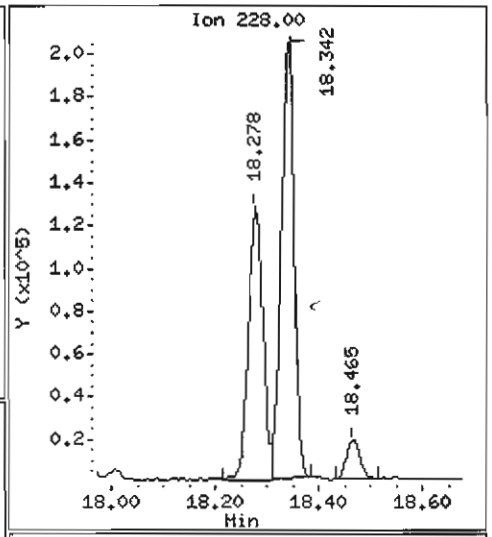
Concentration: 788.8 ug/kg

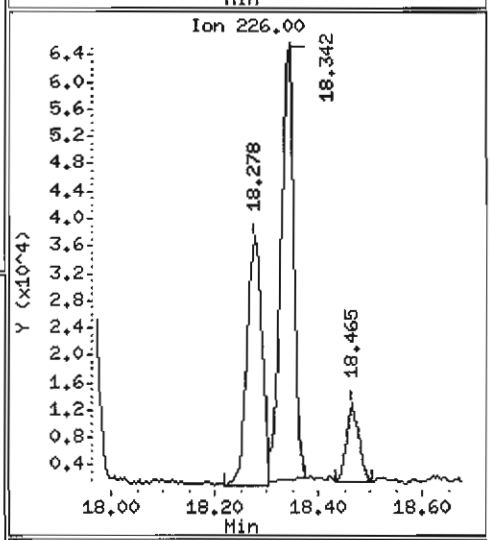


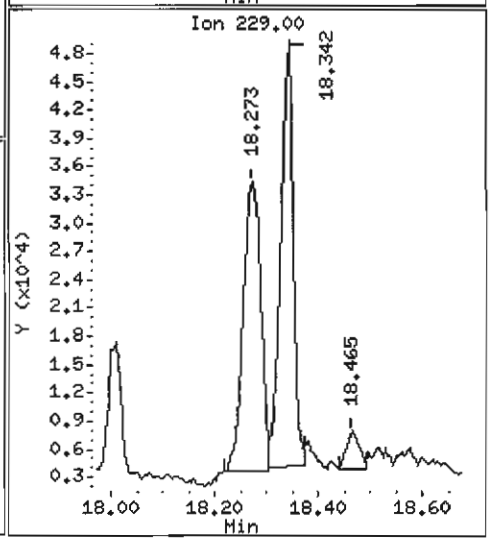












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

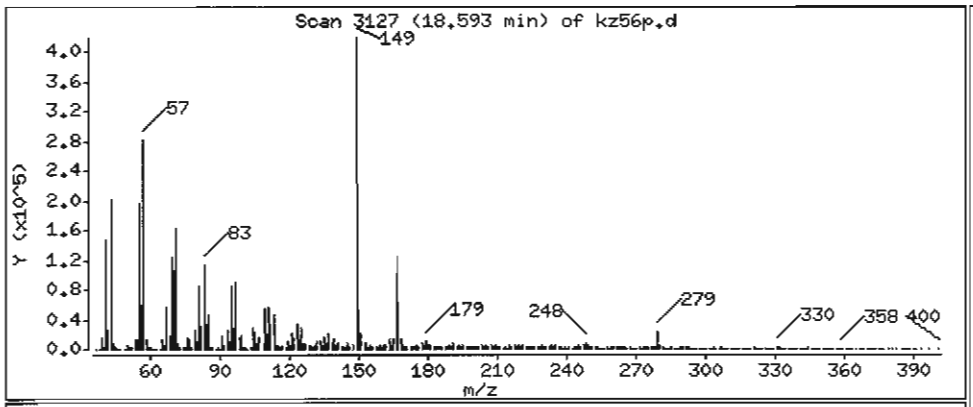
Operator: LJR/VTS

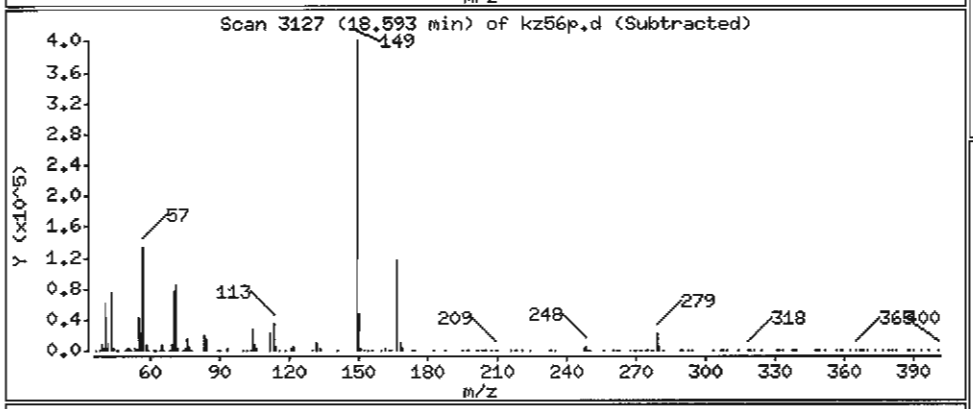
Column phase: ZB-5

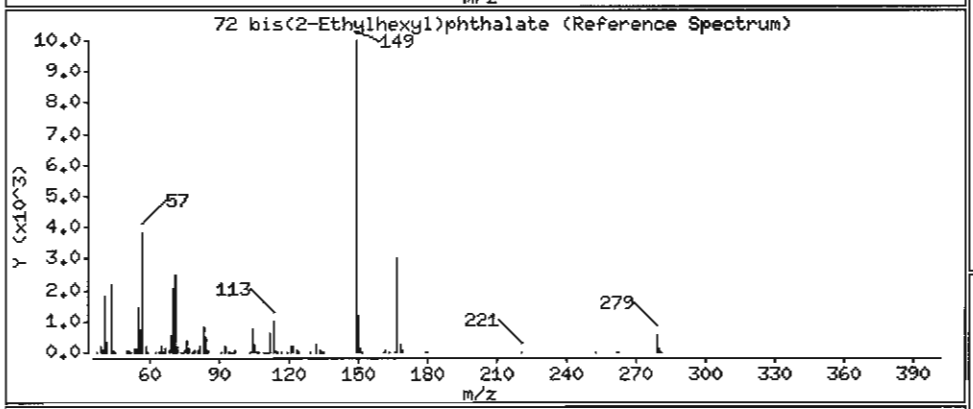
Column diameter: 0.32

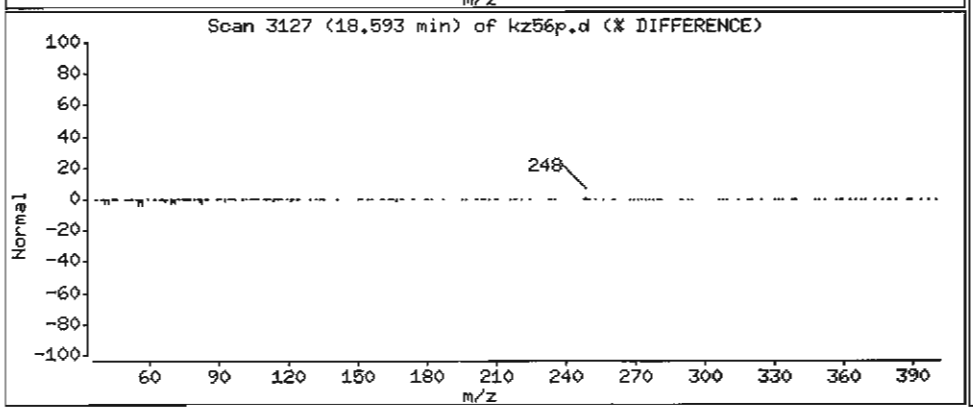
72 bis(2-Ethylhexyl)phthalate

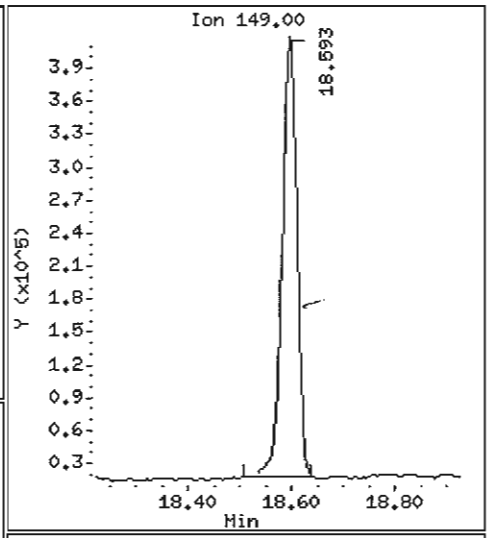
Concentration: 2599 ug/kg

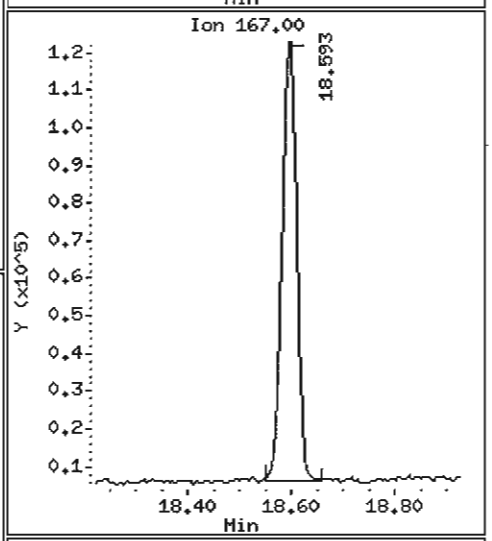


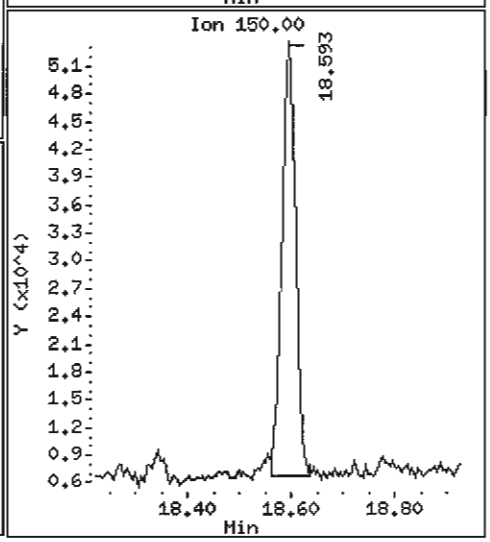












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

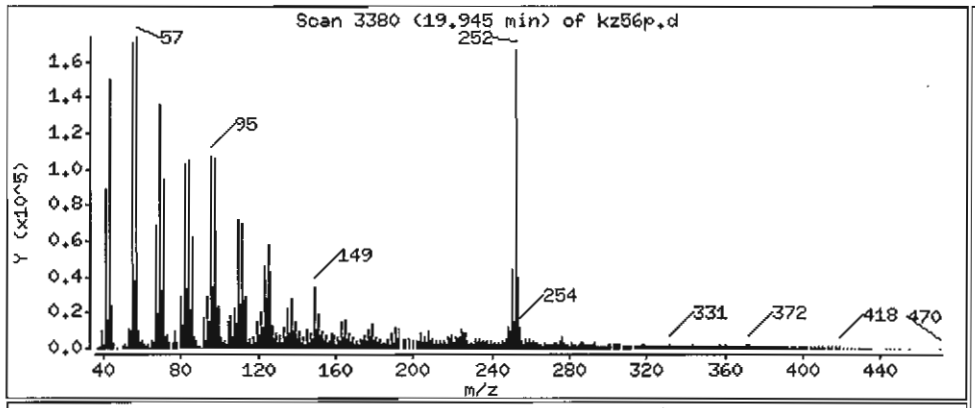
Operator: LJR/VTS

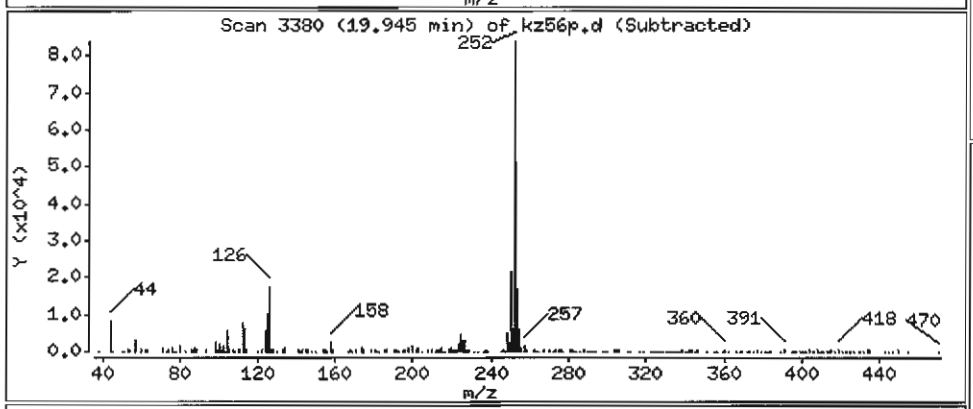
Column phase: ZB-5

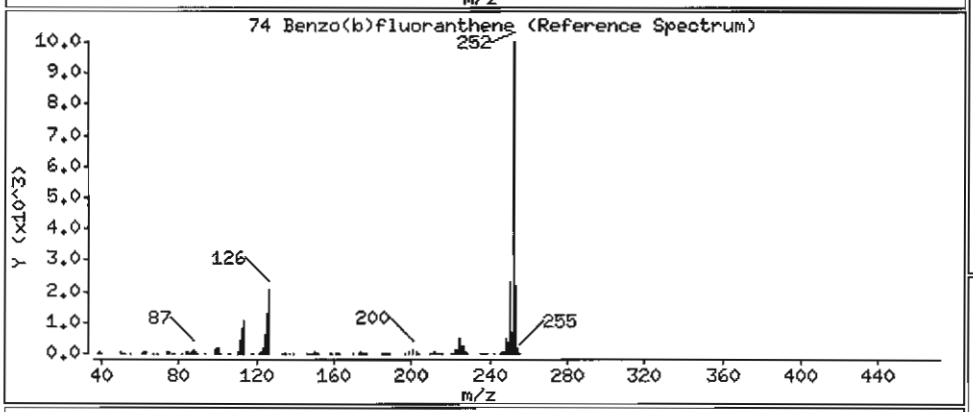
Column diameter: 0.32

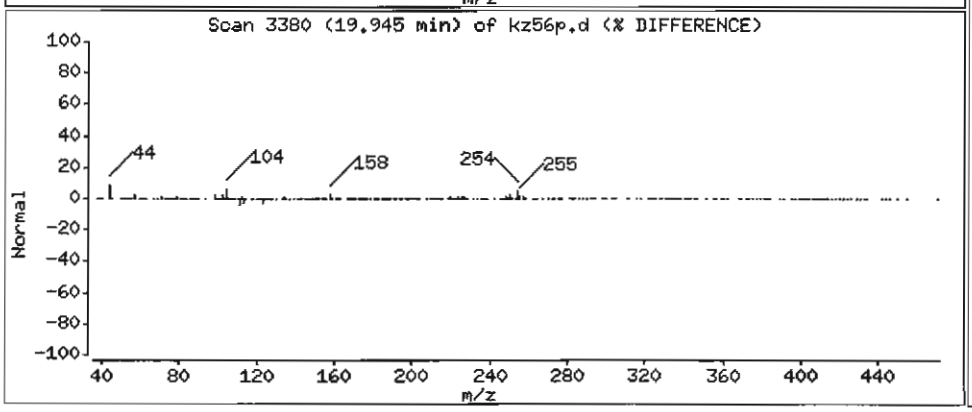
74 Benzo(b)fluoranthene

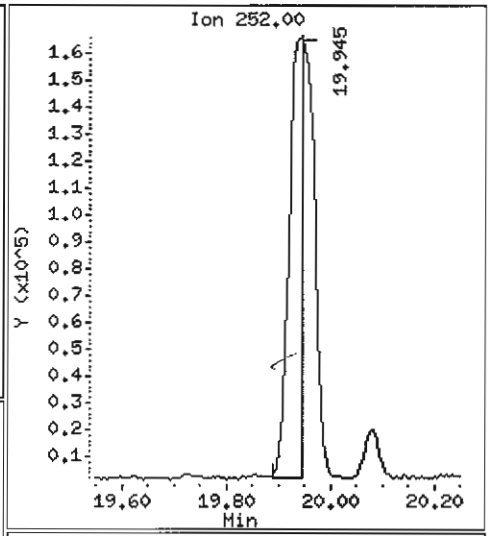
Concentration: 919.1 ug/kg

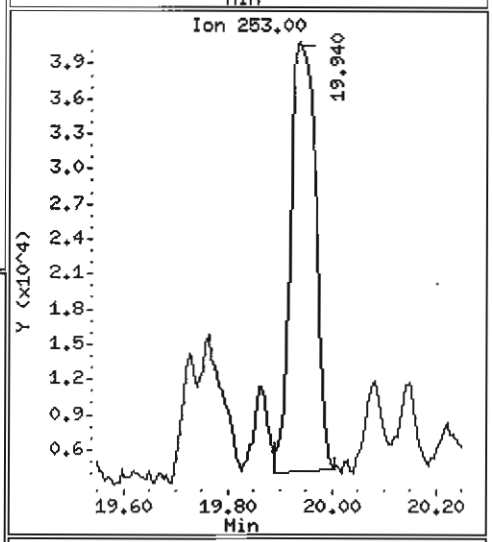


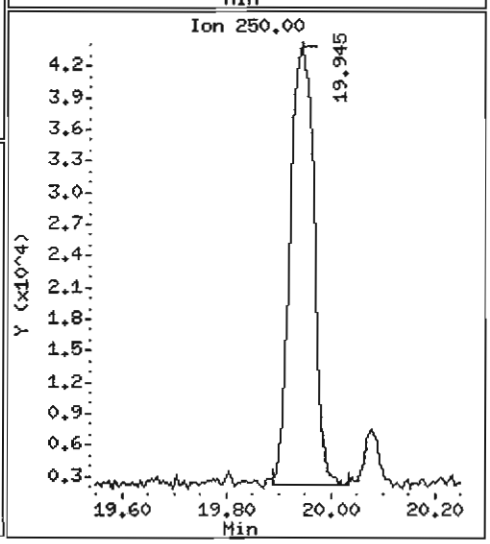












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

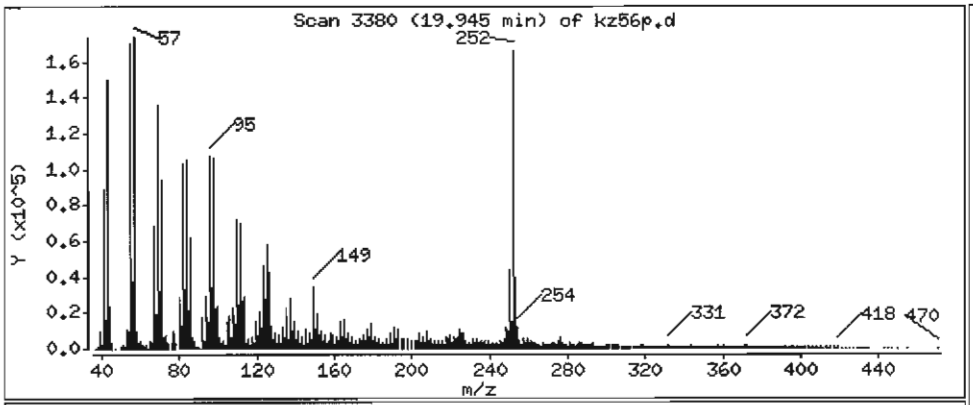
Operator: LJR/VTS

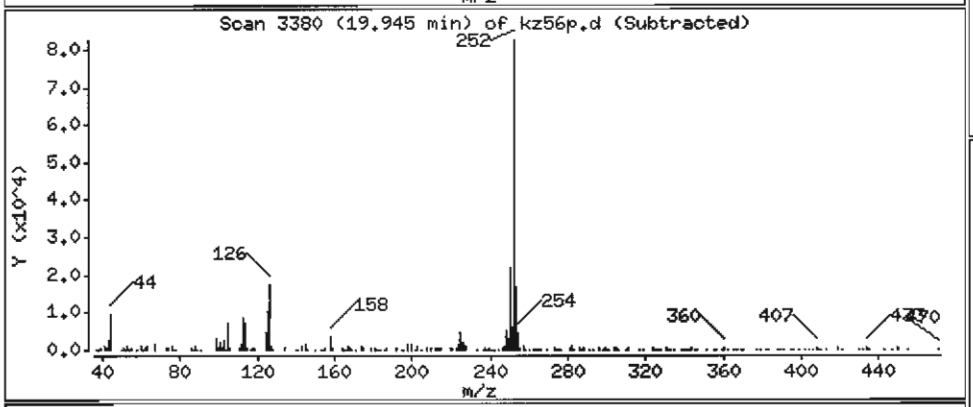
Column phase: ZB-5

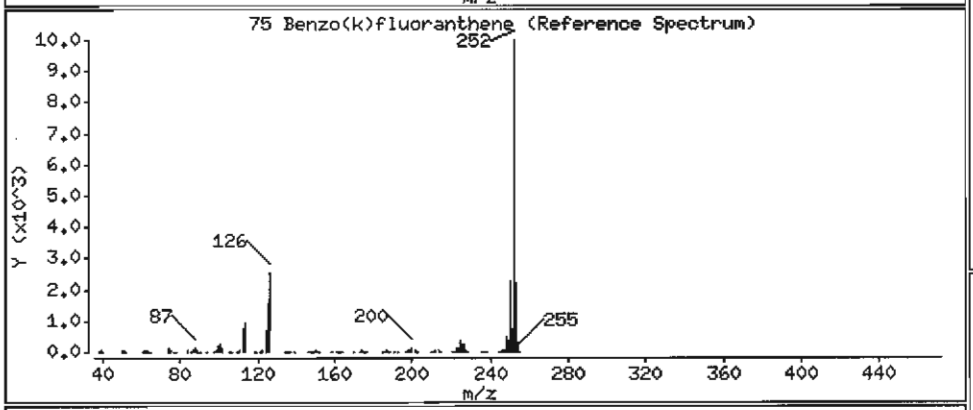
Column diameter: 0.32

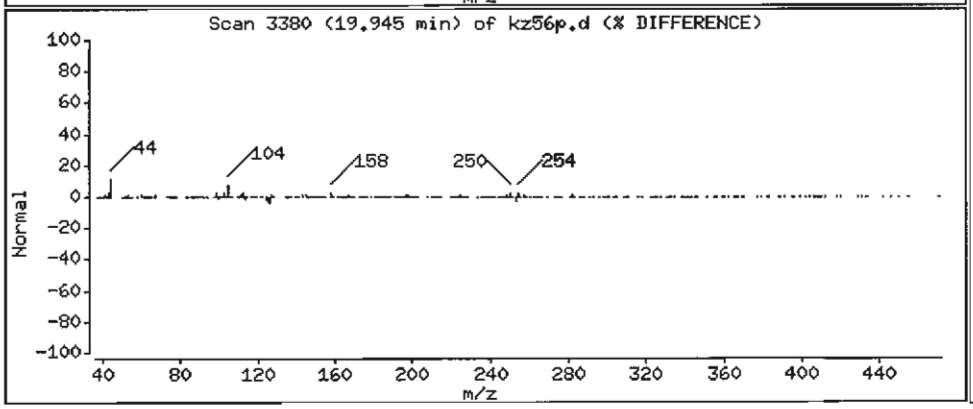
75 Benzo(k)fluoranthene

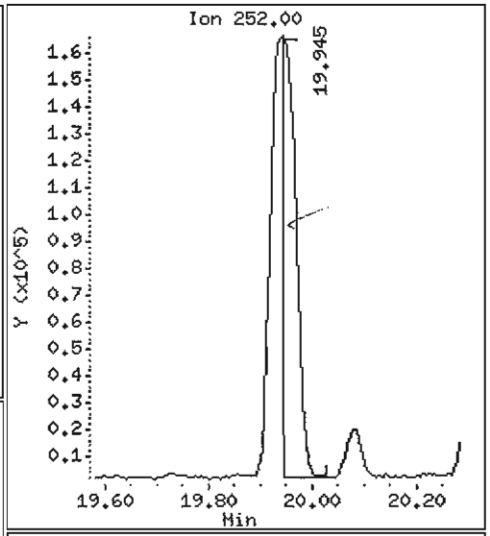
Concentration: 964.0 ug/kg

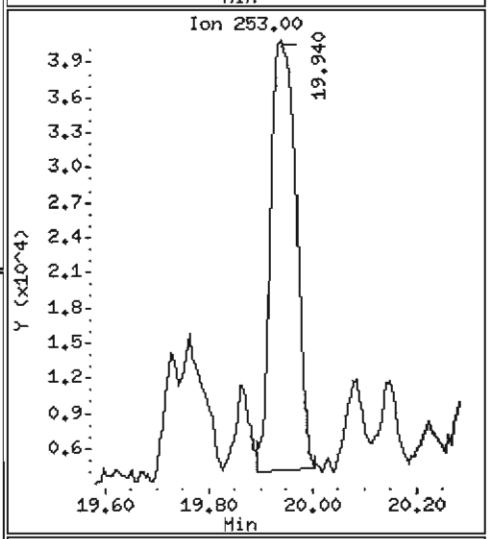


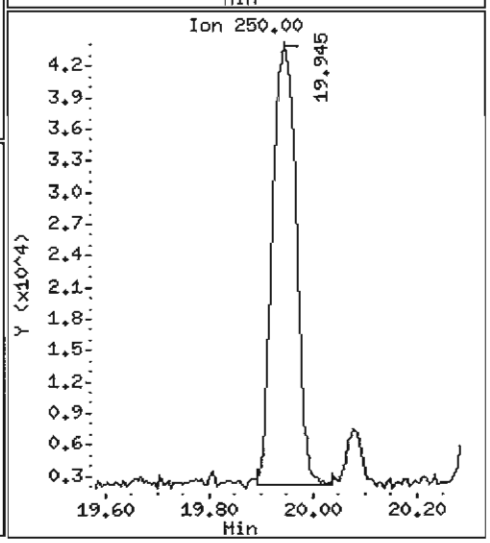












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

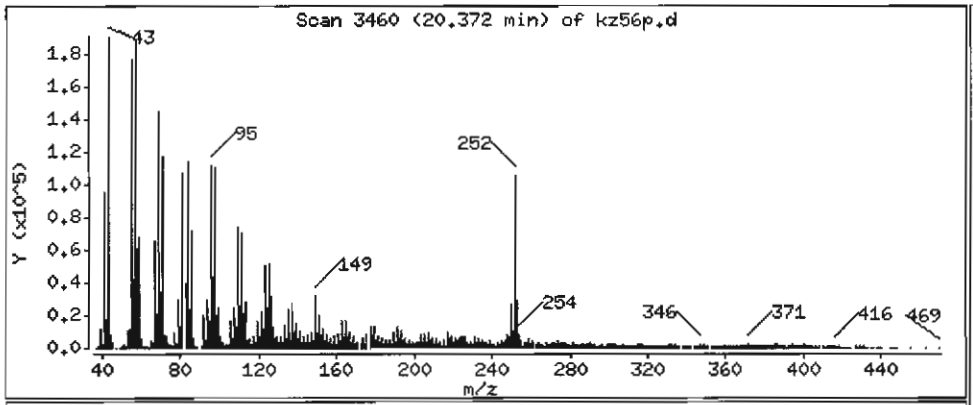
Operator: LJR/VTS

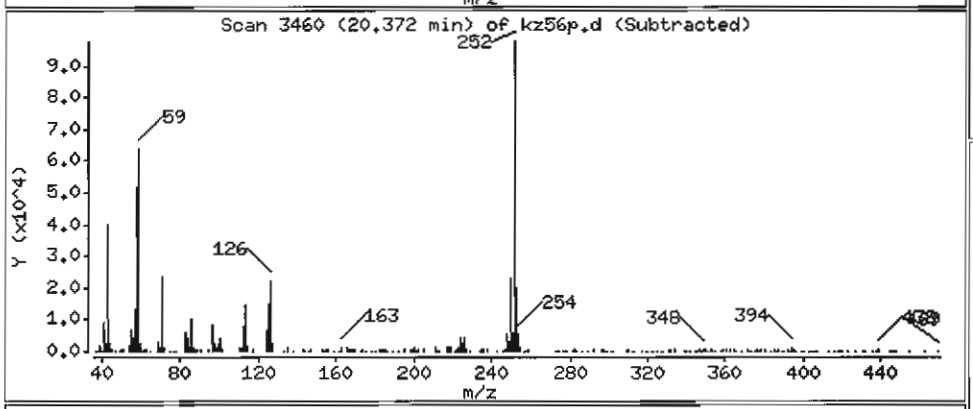
Column phase: ZB-5

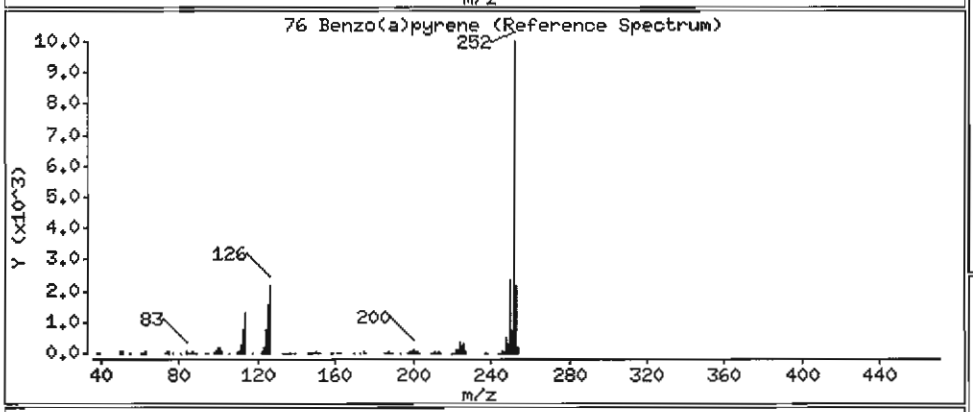
Column diameter: 0.32

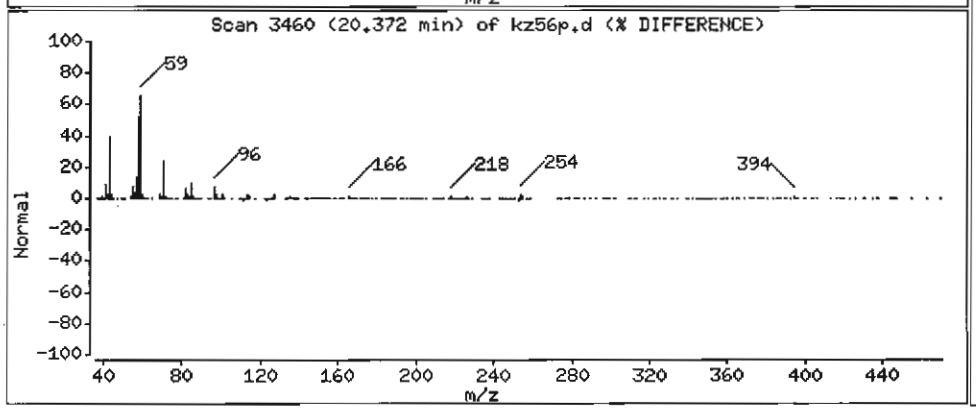
76 Benzo(a)pyrene

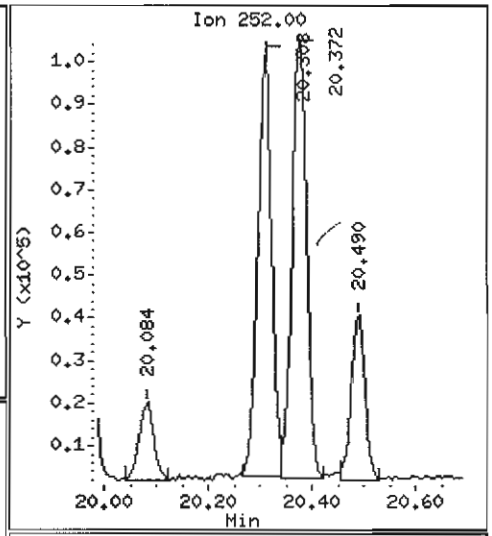
Concentration: 622.1 ug/kg

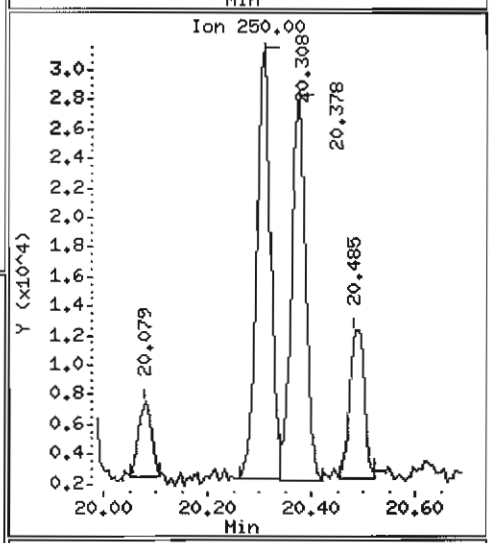


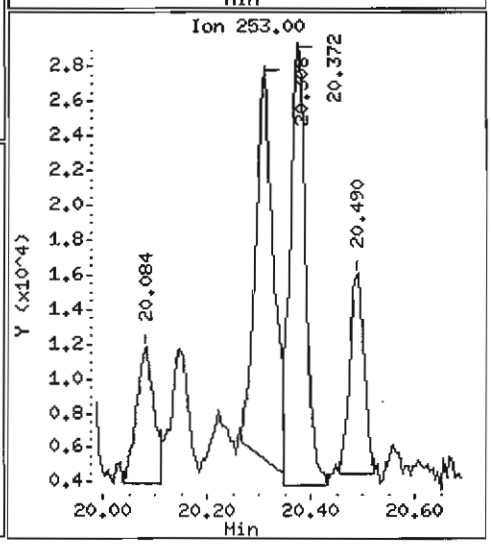












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

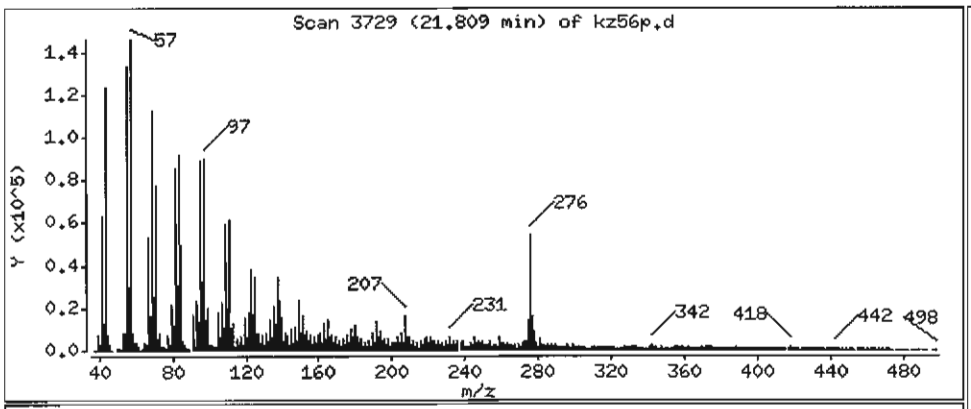
Operator: LJR/VTS

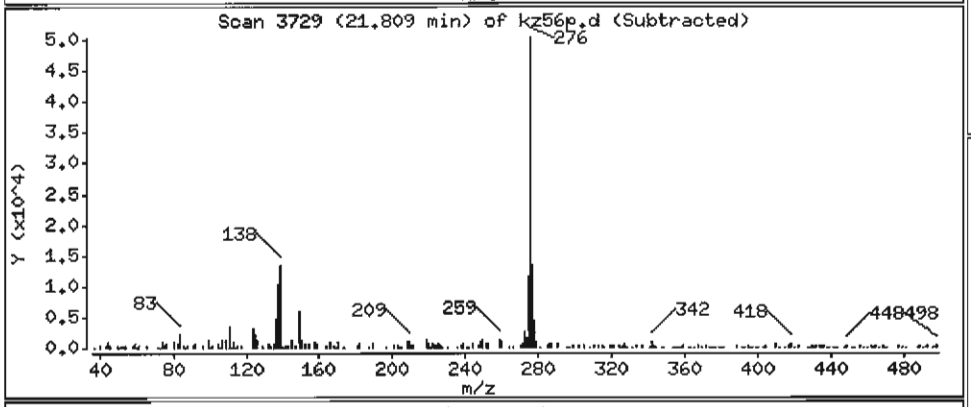
Column phase: ZB-5

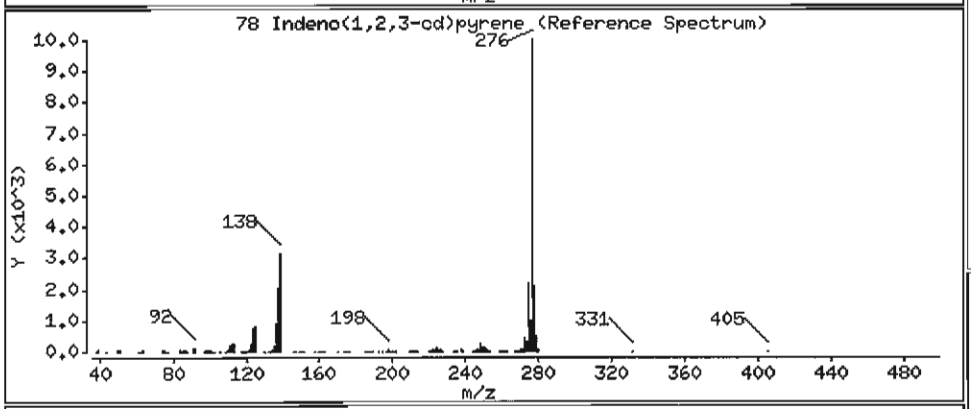
Column diameter: 0.32

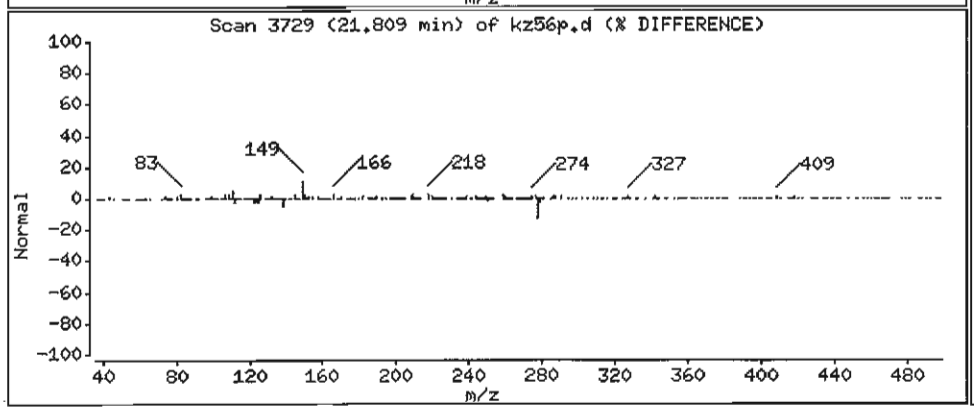
78 Indeno(1,2,3-cd)pyrene

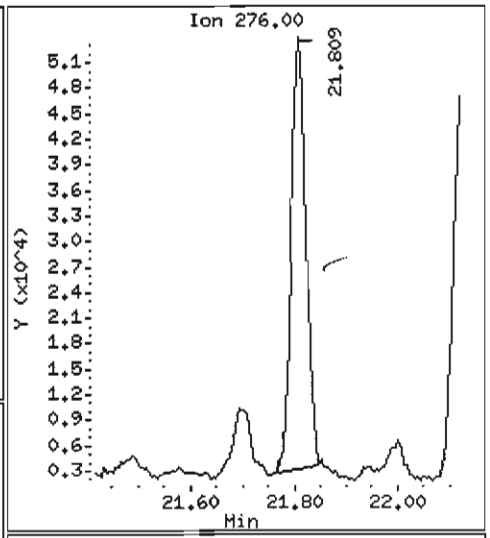
Concentration: 257.9 ug/kg

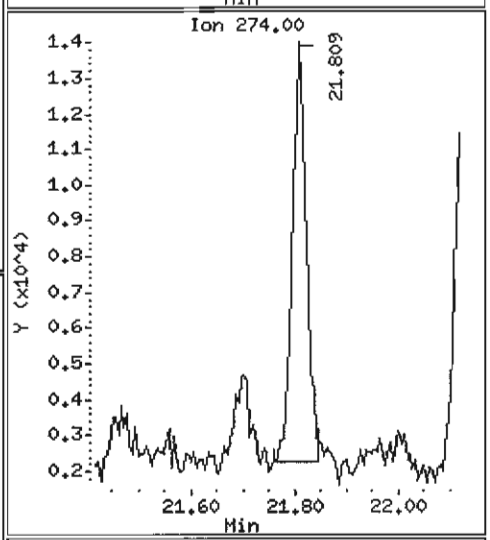


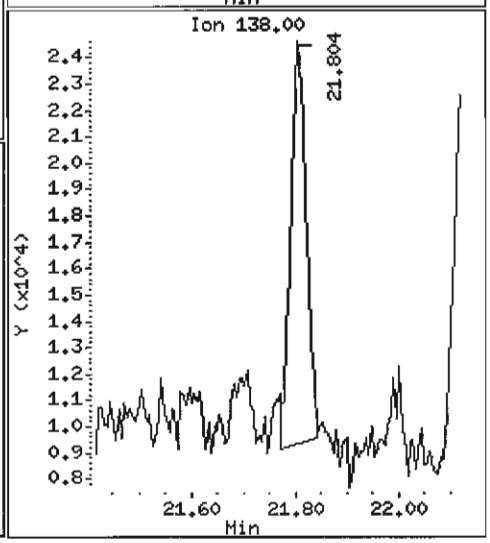












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

Sample Info: KZ56P,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

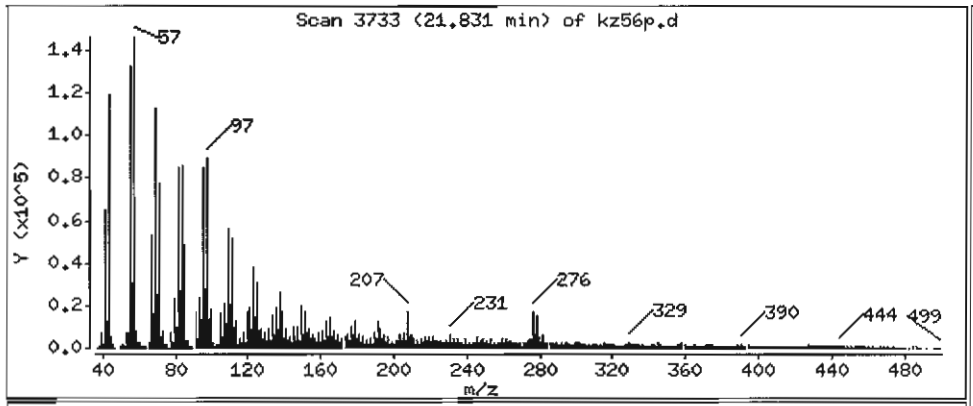
Column phase: ZB-5

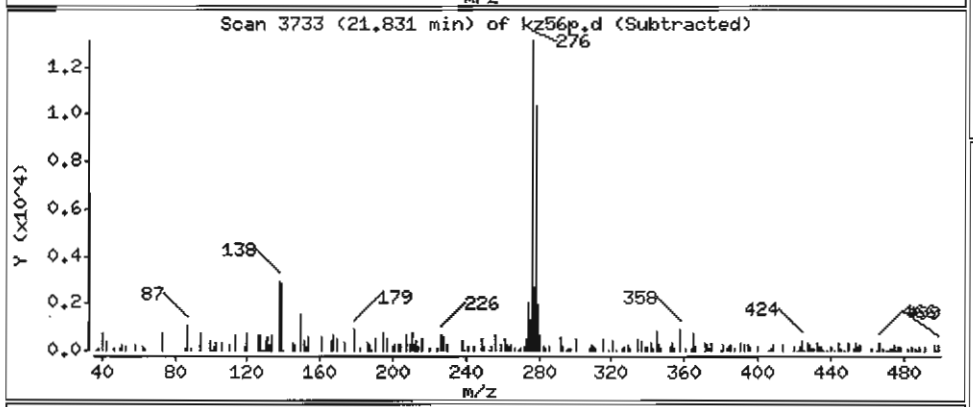
Column diameter: 0.32

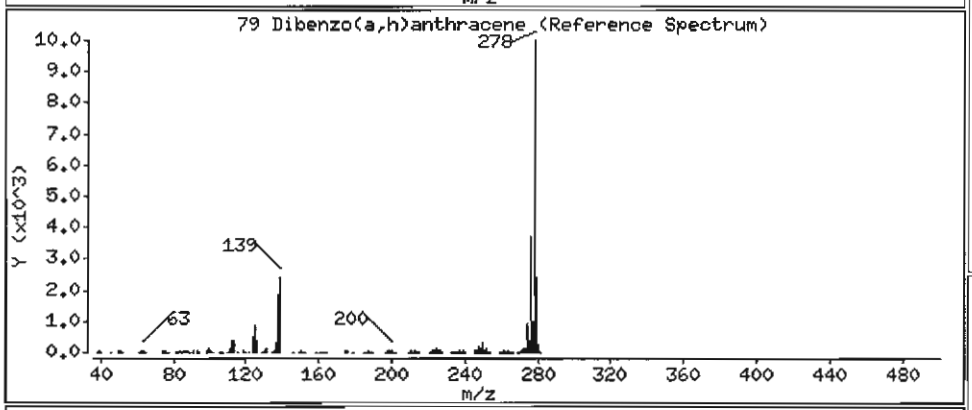
79 Dibenzo(a,h)anthracene

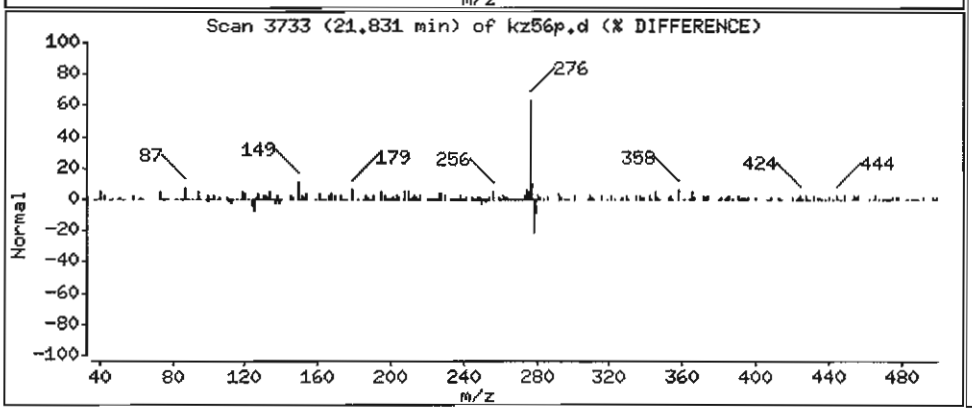
Concentration: 60.70 ug/kg

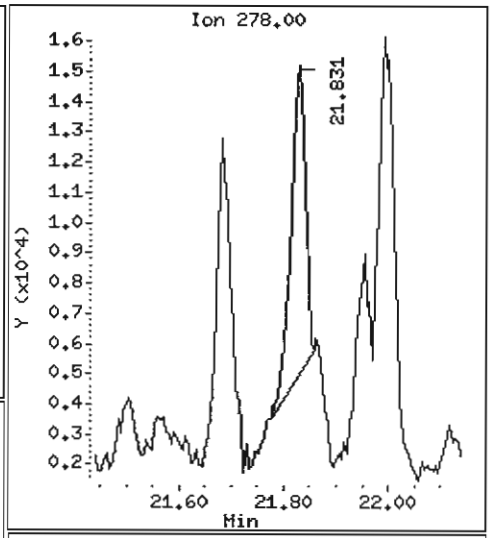
JLR

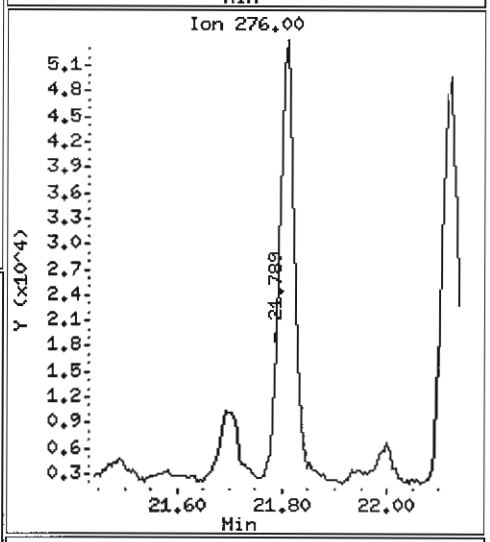


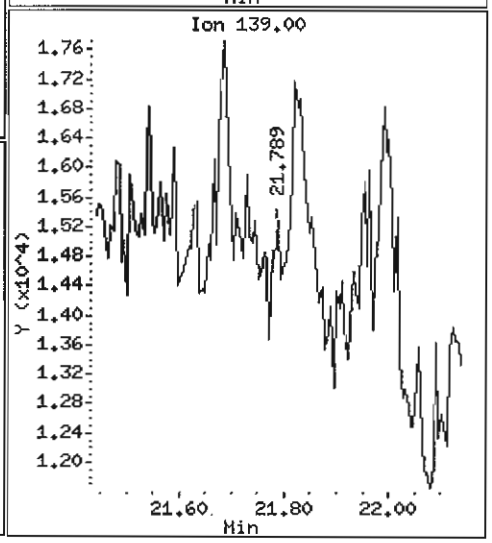












Data File: /chem1/nt6.i/20070529.b/kz56p.d

Date : 29-MAY-2007 15:26

Client ID: Y3-RC03-S

Instrument: nt6.i

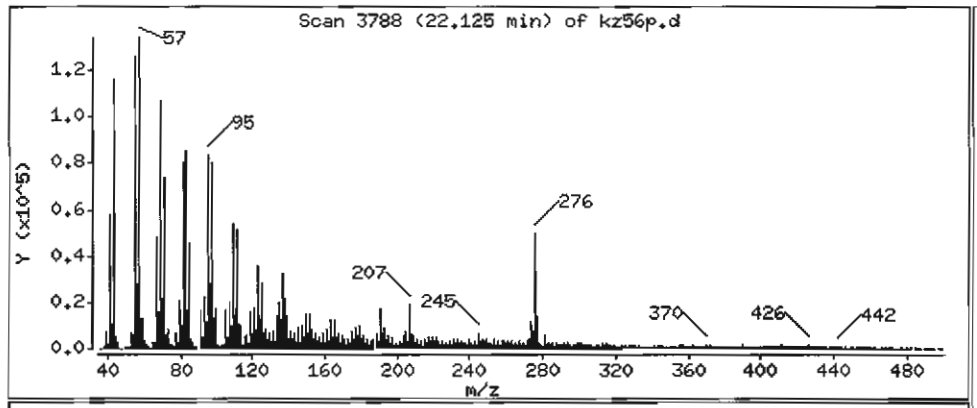
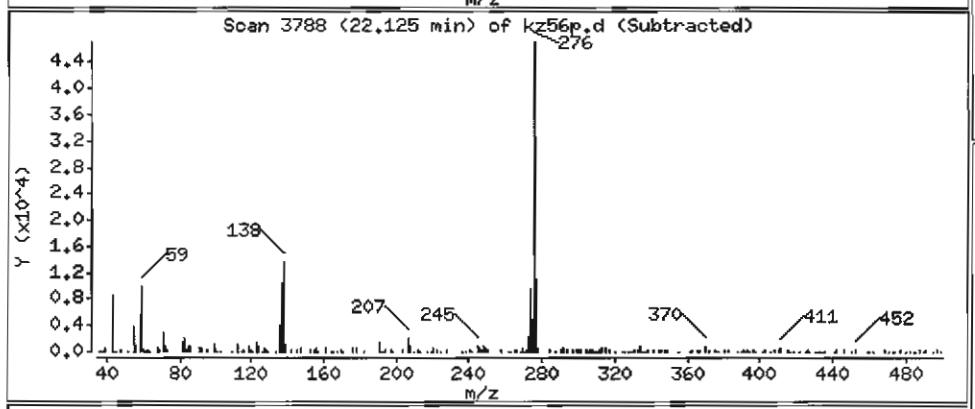
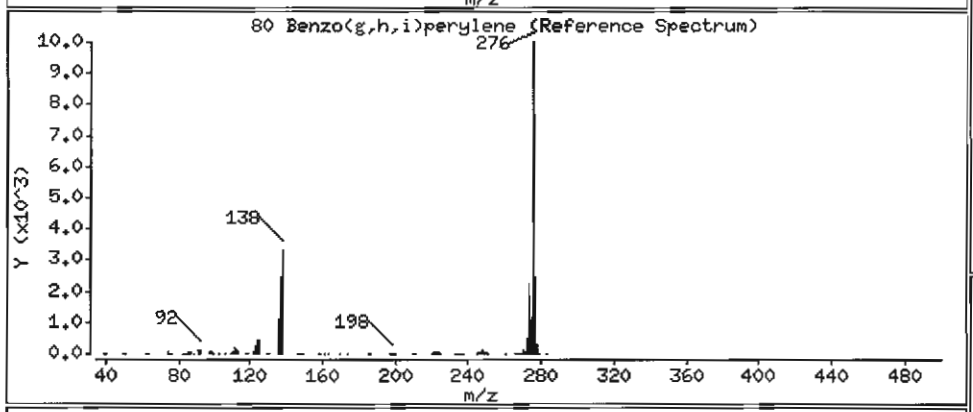
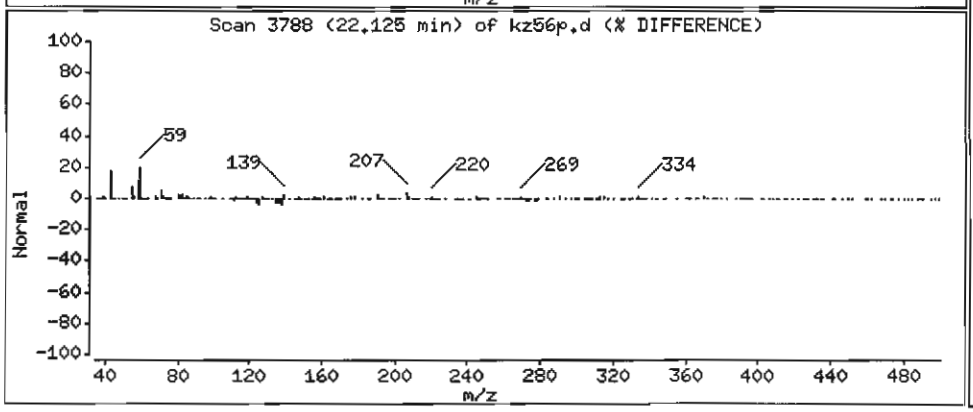
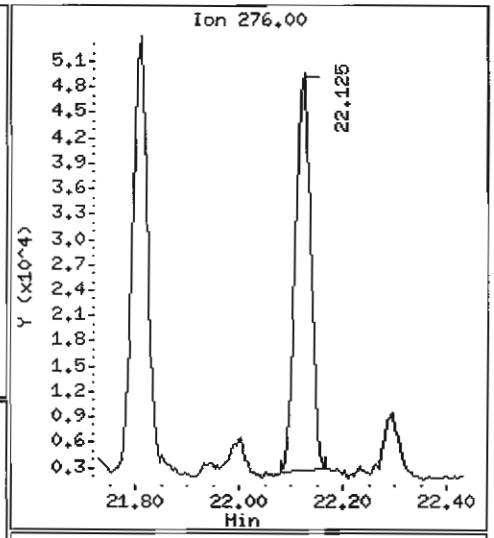
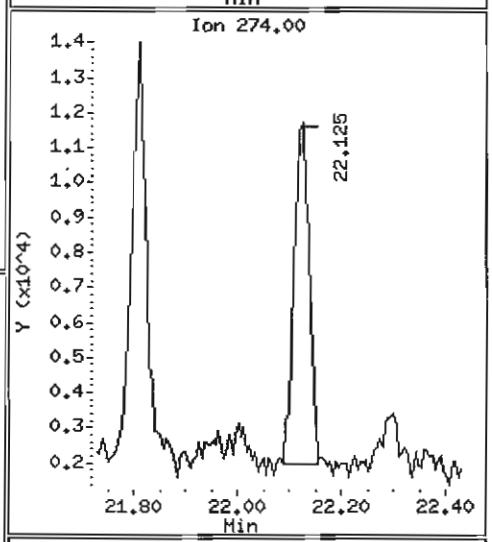
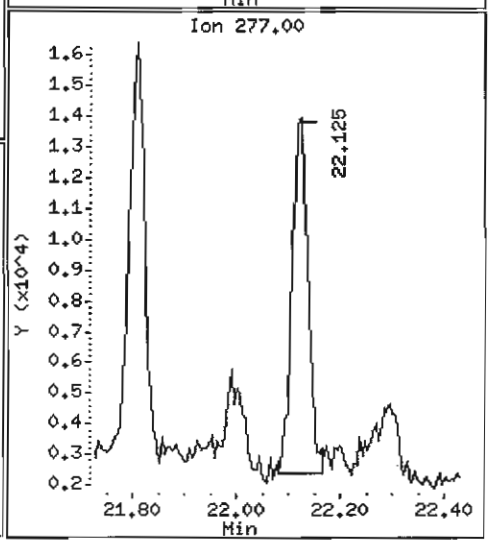
Sample Info: KZ56P,3

Volume Injected (uL): 1.0

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

80 Benzo(g,h,i)perylene

Concentration: 269.9 ug/kg