DATA PACKAGE FOR
SEMI-VOLATILE ORGANICS

PROJECT NAME: Connecticut Superfund Site

DEWBERRY
600 PARSIPPANY ROAD
3RD FLOOR
PARSIPPANY, NJ 07054-3715
9737399400

CHEMTECH PROJECT NO.	**Z4923**
ATTENTION:	**Corey Nachshen**

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(semivolatile data)

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CASE NARRATIVE

Dewberry
Project Name: Connecticut Superfund Site
Project # N/A
Chemtech Project # Z4923

A. Number of Samples and Date of Receipt:
17 Solid samples were received on 10/9/08.
5 Water samples were received on 10/9/08.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Mercury, PCB Group1, PESTICIDE Group1, SVOCMS Group1, TAL ICP Metals, TAL Metals, and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA A using GC Column RTX-5 SILMS which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 12739-125.
The analysis of SVOCMS Group1 was based on method SOM01.2.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for SBLK01, SBLK02RE, FB, FB_, RB, SBLK03, SBLK03RE, AOC4-2B[4.5-5.0], AOC3-2B[4.0-4.5], AOC4-1B[4.5-5.0], BACK1A, AOC3-3B[4.0-4.5] and AOC3-3A[0.0-0.5].
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank analysis indicated presence of Bis(2-ethylhexyl)phthalate (1.3 ugL) in file id BA041294.D and BA041301.D, Bis(2-ethylhexyl)phthalate(44 ug/Kg) in file id BA041324.D, Bis(2-ethylhexyl)phthalate(51 ug/Kg) in file id BA041325.D due to possible lab contamination.
due to possible lab contamination.
The Tuning criteria met requirements.

E. Additional Comments:
The Calibration File ID BA041323.D met the requirements except for 4-Nitroaniline. The Calibration File ID BA041340.D met the requirements except for Benzaldehyde. The Initial Calibration dated 10/19/08 met the requirements except for Di-n-octylphthalate , Benzo(b)fluoranthene and Indeno(1,2,3-cd)pyrene .

The % RSD of Di-n-octylphthalate(28.7), Benzo(b)fluoranthene (23.4) and Indeno(1,2,3-cd)pyrene (25.5)

As per method, the %RSD for four compounds allowed failing. No further action required.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ Mildred V Reyes

Mildred V. Reyes
I am approving this document
2008.11.03 14:39:53 -05'00'

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : Z4923

Project ID : Connecticut Superfund Site

Customer Name : Dewberry

Lab Sample Number	Customer Sample Number
Z4923-01	AOC4-1A[0.0-0.5]
Z4923-02	AOC4-1B[4.5-5.0]
Z4923-03	AOC4-2A[0.0-0.5]
Z4923-04	AOC4-2B[4.5-5.0]
Z4923-05	AOC4-3A[0.0-0.5]
Z4923-06	AOC4-3B[4.5-5.0]
Z4923-07	AOC3-2A[0.0-0.5]
Z4923-08	AOC3-2B[4.0-4.5]
Z4923-09	AOC3-3A[0.0-0.5]
Z4923-10	AOC3-3B[4.0-4.5]
Z4923-11	BACK1A
Z4923-12	BACK1B
Z4923-13	BACK2A
Z4923-14	BACK2B
Z4923-15	BACK3A
Z4923-16	BACK3B
Z4923-17	FB
Z4923-18	FB
Z4923-19	RB
Z4923-20	TRIPBLANK
Z4923-21	VHBLK
Z4923-22	VHBLK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2008.11.03 14:40:08 -05'00'

NYDOH CERTIFICATION NO.11376

NJDEP CERTIFICATION NO.20012

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

SEMI-VOLATILE

DATA

CHEMTECH

SEMI-VOLATILE QC DATA

2G - FORM II SV-1
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK01	42	40	42	45	44	40	40	38
02	FB	26 *	71	67	56	73	74	66	1
03	FB	29 *	76	74	62	77	78	70	17
04	RB	31 *	76	73	61	78	75	69	10
05	SBLK02RE	43	41	43	45	43	46	38	37

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(39-106)
SDMC2 (BCE) = Bis(2-Chloroethyl)ether-d8	(40-105)
SDMC3 (2CP) = 2-Chlorophenol-d4	(41-106)
SDMC4 (4MP) = 4-Methylphenol-d8	(25-111)
SDMC5 (NBZ) = Nitrobenzene-d5	(43-108)
SDMC6 (2NP) = 2-Nitrophenol-d4	(40-108)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(37-105)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

2H - FORM II SV-2
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK01	45 *	44	55	44	46	52	91	62	1
02	FB	82	77	35	76	85	85	90	78	1
03	FB	88	77	38	82	41	97	99	82	1
04	RB	87	78	38	81	89	87	95	82	1
05	SBLK02RE	44 *	43	54	44	45	50	93	67	1

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(47-114)
SDMC10 (ACY) = Acenaphthylene-d8	(41-107)
SDMC11 (4NP) = 4-Nitrophenol-d4	(33-116)
SDMC12 (FLR) = Fluorene-d10	(42-111)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14 (ANC) = Anthracene-d10	(44-110)
SDMC15 (PYR) = Pyrene-d10	(52-119)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(32-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

2J - FORM II SV-3
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK03	57	55	55	61	53	51	52	51
02	SBLK03RE	48	50	50	57	50	48	47	49
03	AOC4-2B[4.5-5.0]	84	84	90	81	87	84	77	63
04	AOC3-2A[0.0-0.5]	72	81	83	74	73	75	65	60
05	AOC3-2B[4.0-4.5]	64	65	68	67	70	61	60	53
06	BACK1B	69	74	75	71	73	64	60	50
07	BACK2B	71	75	78	72	78	75	66	60
08	BACK3A	87	91	94	89	89	82	77	63
09	BACK3B	78	80	84	77	75	76	67	60
10	AOC4-3B[4.5-5.0]	85	86	87	76	90	86	75	67
11	AOC4-1B[4.5-5.0]	92	94	96	73	92	86	78	69
12	AOC4-2A[0.0-0.5]	83	86	92	85	87	83	75	63
13	BACK1A	93	102*	100	80	90	92	80	61
14	BACK2A	97	99*	104*	101*	95	97	87	57
15	AOC3-3B[4.0-4.5]	96	101*	100	75	102	94	85	72
16	AOC4-1A[0.0-0.5]	60	62	65	59	64	65	57	45
17	AOC3-3A[0.0-0.5]	98	97	100	67	96	93	83	55
18	AOC4-3A[0.0-0.5]	90	89	92	79	90	86	80	13
19	AOC4-1A[0.0-0.5]M	62	63	65	62	68	67	60	50
20	AOC4-1A[0.0-0.5]M	74	78	77	74	81	79	72	62

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis(2-Chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

2K - FORM II SV-4
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK03	61	57	89	59	50	65	144 *	99	1
02	SBLK03RE	60	56	84	56	49	63	136 *	91	1
03	AOC4-2B[4.5-5	94	87	85	90	40	78	122 *	69	1
04	AOC3-2A[0.0-0	80	73	75	68	41	62	90	44	0
05	AOC3-2B[4.0-4	82	74	79	73	37	68	122 *	83	1
06	BACK1B	79	80	74	77	40	66	118	82	0
07	BACK2B	82	79	75	80	41	67	109	77	0
08	BACK3A	92	86	78	85	54	74	117	80	0
09	BACK3B	84	80	81	83	49	71	113	78	0
10	AOC4-3B[4.5-5	97	88	93	89	76	77	94	75	0
11	AOC4-1B[4.5-5	106	96	104	103	60	83	134 *	80	1
12	AOC4-2A[0.0-0	91	82	92	81	61	69	86	61	0
13	BACK1A	98	95	93	90	62	74	115	62	1
14	BACK2A	104	103 *	100	92	70	81	129 *	64	5
15	AOC3-3B[4.0-4	106	97	102	96	69	79	130 *	73	2
16	AOC4-1A[0.0-0	74	67	75	67	49	62	106	65	0
17	AOC3-3A[0.0-0	103	97	101	98	68	84	132 *	82	1
18	AOC4-3A[0.0-0	98	93	99	88	53	76	95	67	0
19	AOC4-1A[0.0-0	68	65	72	63	36	57	95	60	0
20	AOC4-1A[0.0-0	78	75	86	72	48	69	106	76	0

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

3D - FORM III SV-2
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix Spike - EPA Sample No: AOC4-1A[0.0-0. Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC#	QC LIMIT REC
Phenol	1500	0	940	63	(26-90)
2-Chlorophenol	1500	0	930	62	(25-102)
N-Nitroso-di-n-propyla	1500	0	1000	67	(41-126)
4-Chloro-3-methylpheno	1500	0	960	64	(26-103)
Acenaphthene	1500	0	950	63	(31-137)
4-Nitrophenol	1500	0	890	59	(11-114)
2,4-Dinitrotoluene	1500	0	930	62	(28-89)
Pentachlorophenol	1500	0	830	55	(17-109)
Pyrene	1500	320	1400	72	(35-142)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	MSD % RPD #	QC LIMITS RPD	QC LIMITS REC
Phenol	1500	1100	73	15	35	(26-90)
2-Chlorophenol	1500	1000	67	8	50	(25-102)
N-Nitroso-di-n-propyla	1500	1100	73	9	38	(41-126)
4-Chloro-3-methylpheno	1500	1100	73	13	33	(26-103)
Acenaphthene	1500	1100	73	15	19	(31-137)
4-Nitrophenol	1500	1000	67	13	50	(11-114)
2,4-Dinitrotoluene	1500	1100	73	16	47	(28-89)
Pentachlorophenol	1500	960	64	15	47	(17-109)
Pyrene	1500	1500	79	9	36	(35-142)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 18 outside limits

Comments:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG NO.: Z4923

Lab File ID: BA041294.D Lab Sample ID: PB37177B

Instrument ID: BNAA Date Extracted: 10/13/2008

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/19/2008

Level: (LOW/MED) LOW Time Analyzed: 17:57

Extraction: (Type) SEPF GPC Cleanup: (Y/N): N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FB	Z4923-17	BA041296.D	10/19/2008
02	FB	Z4923-18	BA041297.D	10/19/2008
03	RB	Z4923-19	BA041298.D	10/19/2008

COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG NO.: Z4923

Lab File ID: BA041324.D Lab Sample ID: PB37182B

Instrument ID: BNAA Date Extracted: 10/13/2008

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 10/20/2008

Level: (LOW/MED) LOW Time Analyzed: 16:00

Extraction: (Type) SOXH GPC Cleanup: (Y/N): Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AOC4-2B[4.5-5.0]	Z4923-04	BA041327.D	10/20/2008
02	AOC3-2A[0.0-0.5]	Z4923-07	BA041328.D	10/20/2008
03	AOC3-2B[4.0-4.5]	Z4923-08	BA041329.D	10/20/2008
04	BACK1B	Z4923-12	BA041330.D	10/20/2008
05	BACK2B	Z4923-14	BA041331.D	10/20/2008
06	BACK3A	Z4923-15	BA041332.D	10/20/2008
07	BACK3B	Z4923-16	BA041333.D	10/20/2008
08	AOC4-3B[4.5-5.0]	Z4923-06	BA041341.D	10/21/2008
09	AOC4-1B[4.5-5.0]	Z4923-02	BA041342.D	10/21/2008
10	AOC4-2A[0.0-0.5]	Z4923-03	BA041343.D	10/21/2008
11	BACK1A	Z4923-11	BA041344.D	10/21/2008
12	BACK2A	Z4923-13	BA041345.D	10/21/2008
13	AOC3-3B[4.0-4.5]	Z4923-10	BA041346.D	10/21/2008
14	AOC4-1A[0.0-0.5]	Z4923-01	BA041347.D	10/21/2008
15	AOC3-3A[0.0-0.5]	Z4923-09	BA041348.D	10/21/2008
16	AOC4-3A[0.0-0.5]	Z4923-05	BA041349.D	10/21/2008
17	AOC4-1A[0.0-0.5]MS	Z4923-01MS	BA041350.D	10/21/2008
18	AOC4-1A[0.0-0.5]MSD	Z4923-01MSD	BA041351.D	10/21/2008

COMMENTS:

EPA SAMPLE NO.

DFTPPBA0013

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG NO.: Z4923

Lab File ID: BA041288.D DFTPP Injection Date: 10/19/2008

Instrument ID: BNAA DFTPP Injection Time: 13:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	50.3
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	56.5
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	39.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	16.0
365	Greater than 1.0% of mass 198	1.3
441	Present, but less than mass 443	6.9
442	50.0 - 100% of mass 198	50.1
443	15.0 - 24.0% of mass 442	9.5 (18.9) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ICC0020BA0048	ICC0020BA0048	BA041289.D	10/19/2008	14:01
02	ICC0005BA0049	ICC0005BA0049	BA041290.D	10/19/2008	15:12
03	ICC0010BA0050	ICC0010BA0050	BA041291.D	10/19/2008	15:53
04	ICC0040BA0051	ICC0040BA0051	BA041292.D	10/19/2008	16:35
05	ICC0080BA0052	ICC0080BA0052	BA041293.D	10/19/2008	17:16
06	SBLK01	PB37177B	BA041294.D	10/19/2008	17:57
07	FB	Z4923-17	BA041296.D	10/19/2008	19:20
08	FB	Z4923-18	BA041297.D	10/19/2008	20:02
09	RB	Z4923-19	BA041298.D	10/19/2008	20:43
10	SBLK02RE	PB37177BRE	BA041301.D	10/19/2008	22:46
11	CCC0020BA0053	CCC0020BA0053	BA041302.D	10/19/2008	23:28

EPA SAMPLE NO.

DFTPPBA0017

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG NO.: Z4923

Lab File ID: BA041322.D DFTPP Injection Date: 10/20/2008

Instrument ID: BNAA DFTPP Injection Time: 14:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.0
68	Less than 2.0% of mass 69	0.3 (0.6) 1
69	Mass 69 relative abundance	59.3
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	42.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	20.6
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	8.6
442	50.0 - 100% of mass 198	56.6
443	15.0 - 24.0% of mass 442	11.4(20.2) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCC0020BA0058	CCC0020BA0058	BA041323.D	10/20/2008	15:18
02	SBLK03	PB37182B	BA041324.D	10/20/2008	16:00
03	SBLK03RE	PB37183BRE	BA041325.D	10/20/2008	16:42
04	AOC4-2B[4.5-5.0]	Z4923-04	BA041327.D	10/20/2008	18:04
05	AOC3-2A[0.0-0.5]	Z4923-07	BA041328.D	10/20/2008	18:46
06	AOC3-2B[4.0-4.5]	Z4923-08	BA041329.D	10/20/2008	19:28
07	BACK1B	Z4923-12	BA041330.D	10/20/2008	20:09
08	BACK2B	Z4923-14	BA041331.D	10/20/2008	20:51
09	BACK3A	Z4923-15	BA041332.D	10/20/2008	21:33
10	BACK3B	Z4923-16	BA041333.D	10/20/2008	22:14
11	CCC0020BA0059	CCC0020BA0059	BA041337.D	10/21/2008	01:01

EPA SAMPLE NO.

DFTPPBA0016

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG NO.: Z4923

Lab File ID: BA041339.D DFTPP Injection Date: 10/21/2008

Instrument ID: BNAA DFTPP Injection Time: 02:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	49.6
68	Less than 2.0% of mass 69	0.5 (0.9) 1
69	Mass 69 relative abundance	56.5
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	40.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.6
275	10.0 - 60.0% of mass 198	18.3
365	Greater than 1.0% of mass 198	1.6
441	Present, but less than mass 443	7.3
442	50.0 - 100% of mass 198	55.0
443	15.0 - 24.0% of mass 442	10.9(19.8) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCC0020BA0061	CCC0020BA0061	BA041340.D	10/21/2008	03:04
02	AOC4-3B[4.5-5.0]	Z4923-06	BA041341.D	10/21/2008	03:46
03	AOC4-1B[4.5-5.0]	Z4923-02	BA041342.D	10/21/2008	04:27
04	AOC4-2A[0.0-0.5]	Z4923-03	BA041343.D	10/21/2008	05:09
05	BACK1A	Z4923-11	BA041344.D	10/21/2008	05:50
06	BACK2A	Z4923-13	BA041345.D	10/21/2008	06:31
07	AOC3-3B[4.0-4.5]	Z4923-10	BA041346.D	10/21/2008	07:12
08	AOC4-1A[0.0-0.5]	Z4923-01	BA041347.D	10/21/2008	07:53
09	AOC3-3A[0.0-0.5]	Z4923-09	BA041348.D	10/21/2008	08:35
10	AOC4-3A[0.0-0.5]	Z4923-05	BA041349.D	10/21/2008	09:16
11	AOC4-1A[0.0-0.5]MS	Z4923-01MS	BA041350.D	10/21/2008	09:58
12	AOC4-1A[0.0-0.5]MSD	Z4923-01MSD	BA041351.D	10/21/2008	10:39
13	CCC0020BA0062	CCC0020BA0062	BA041354.D	10/21/2008	12:43

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

EPA Sample No. (SSTD020##): ICC0020BA0048 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041289.D Time Analyzed: 14:01

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	734942	15.76	863637	21.29	688065	25.07
	UPPER LIMIT	1469884	16.26	1727274	21.79	1376130	25.57
	LOWER LIMIT	367471	15.26	431819	20.79	344033	24.57
	EPA SAMPLE NO.						
01	SBLK01	885473	15.74	677859	21.27	637460	25.06
02	FB	872529	15.74	1002199	21.28	878544	25.05
03	FB	816789	15.74	962239	21.28	890380	25.06
04	RB	865751	15.74	966867	21.27	893753	25.07
05	SBLK02RE	873890	15.75	645097	21.29	610468	25.08

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

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): ICC0020BA0048 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041289.D Time Analyzed: 14:01

Instrument ID: BNAA

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	165870	6.68	545763	9.08	400296	12.67
	UPPER LIMIT	331740	7.18	1091526	9.58	800592	13.17
	LOWER LIMIT	82935	6.18	272882	8.58	200148	12.17
	EPA SAMPLE NO.						
01	SBLK01	227354	6.68	729640	9.07	517476	12.66
02	FB	223942	6.67	694462	9.06	487927	12.65
03	FB	205008	6.68	664770	9.07	480503	12.65
04	RB	204145	6.67	666775	9.07	472602	12.65
05	SBLK02RE	221866	6.68	716685	9.07	507672	12.66

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 UPPER LIMIT = -0.50 minutes of internal standard RT

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

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0053 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041302.D Time Analyzed: 23:28

Instrument ID: BNAA

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	228931	6.69	688669	9.09	475481	12.67
UPPER LIMIT	457862	7.19	1377338	9.59	950962	13.17
LOWER LIMIT	114466	6.19	344335	8.59	237741	12.17
EPA SAMPLE NO.						

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 UPPER LIMIT = -0.50 minutes of internal standard RT

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

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

EPA Sample No. (SSTD020##): CCC0020BA0053 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041302.D Time Analyzed: 23:28

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	828346	15.76	953051	21.29	790075	25.10
UPPER LIMIT	1656692	16.26	1906102	21.79	1580150	25.60
LOWER LIMIT	414173	15.26	476526	20.79	395038	24.60
EPA SAMPLE NO.						

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

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0058 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041323.D Time Analyzed: 15:18

Instrument ID: BNAA

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	185060	6.68	583337	9.07	404056	12.66
	UPPER LIMIT	370120	7.18	1166674	9.57	808112	13.16
	LOWER LIMIT	92530	6.18	291669	8.57	202028	12.16
	EPA SAMPLE NO.						
01	SBLK03	176673	6.68	597512	9.07	415577	12.66
02	SBLK03RE	177740	6.68	599589	9.08	426701	12.66
03	AOC4-2B[4.5-5.0]	213005	6.68	718582	9.07	499106	12.67
04	AOC3-2A[0.0-0.5]	205092	6.68	721783	9.07	511685	12.65
05	AOC3-2B[4.0-4.5]	226301	6.69	751074	9.07	524024	12.66
06	BACK1B	187581	6.68	658879	9.08	439953	12.66
07	BACK2B	221330	6.68	730442	9.07	512021	12.66
08	BACK3A	219554	6.68	764487	9.07	530448	12.66
09	BACK3B	218490	6.68	744872	9.07	510836	12.66

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 UPPER LIMIT = -0.50 minutes of internal standard RT

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

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

EPA Sample No. (SSTD020##): CCC0020BA0058 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041323.D Time Analyzed: 15:18

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	791573	15.75	920652	21.30	786196	25.09
	UPPER LIMIT	1583146	16.25	1841304	21.80	1572392	25.59
	LOWER LIMIT	395787	15.25	460326	20.80	393098	24.59
	EPA SAMPLE NO.						
01	SBLK03	817180	15.74	581749	21.28	495068	25.07
02	SBLK03RE	766527	15.74	582119	21.29	496271	25.08
03	AOC4-2B[4.5-5.0]	989921	15.75	695878	21.29	559090	25.07
04	AOC3-2A[0.0-0.5]	948083	15.75	678047	21.28	519780	25.06
05	AOC3-2B[4.0-4.5]	1010056	15.74	716231	21.28	585595	25.06
06	BACK1B	853955	15.75	596991	21.28	576860	25.07
07	BACK2B	995137	15.75	721238	21.28	692393	25.06
08	BACK3A	1003455	15.74	744209	21.29	653955	25.06
09	BACK3B	1008616	15.74	723446	21.28	690742	25.07

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

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0059 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041337.D Time Analyzed: 01:01

Instrument ID: BNAA

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	204952	6.68	696443	9.08	474813	12.67
UPPER LIMIT	409904	7.18	1392886	9.58	949626	13.17
LOWER LIMIT	102476	6.18	348222	8.58	237407	12.17
EPA SAMPLE NO.						

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 UPPER LIMIT = -0.50 minutes of internal standard RT

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

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

EPA Sample No. (SSTD020##): CCC0020BA0059 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041337.D Time Analyzed: 01:01

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	863100	15.76	1004503	21.30	869667	25.08
UPPER LIMIT	1726200	16.26	2009006	21.80	1739334	25.58
LOWER LIMIT	431550	15.26	502252	20.80	434834	24.58
EPA SAMPLE NO.						

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

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0061 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041340.D Time Analyzed: 03:04

Instrument ID: BNAA

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	194123	6.68	652150	9.08	461848	12.67
	UPPER LIMIT	388246	7.18	1304300	9.58	923696	13.17
	LOWER LIMIT	97062	6.18	326075	8.58	230924	12.17
	EPA SAMPLE NO.						
01	AOC4-3B[4.5-5.0]	227822	6.69	722010	9.08	475696	12.68
02	AOC4-1B[4.5-5.0]	204866	6.70	690447	9.09	456218	12.68
03	AOC4-2A[0.0-0.5]	236913	6.70	789978	9.08	547375	12.68
04	BACK1A	214584	6.70	727354	9.09	498756	12.69
05	BACK2A	221877	6.69	749843	9.09	521337	12.68
06	AOC3-3B[4.0-4.5]	238465	6.69	812986	9.09	573359	12.69
07	AOC4-1A[0.0-0.5]	235524	6.70	784748	9.09	542915	12.69
08	AOC3-3A[0.0-0.5]	222326	6.69	734563	9.09	522870	12.69
09	AOC4-3A[0.0-0.5]	248608	6.69	822746	9.10	552036	12.68
10	AOC4-1A[0.0-0.5]MS	230339	6.71	771175	9.10	545788	12.69
11	AOC4-1A[0.0-0.5]MSD	237702	6.69	775590	9.08	570557	12.69

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 UPPER LIMIT = -0.50 minutes of internal standard RT

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

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

EPA Sample No. (SSTD020##): CCC0020BA0061 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041340.D Time Analyzed: 03:04

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	834211	15.76	989893	21.31	841521	25.11
	UPPER LIMIT	1668422	16.26	1979786	21.81	1683042	25.61
	LOWER LIMIT	417106	15.26	494947	20.81	420761	24.61
	EPA SAMPLE NO.						
01	AOC4-3B[4.5-5.0]	705149	15.76	634874	21.31	532828	25.12
02	AOC4-1B[4.5-5.0]	871814	15.78	630100	21.36	517862	25.26
03	AOC4-2A[0.0-0.5]	1018730	15.77	706531	21.35	566345	25.24
04	BACK1A	944782	15.78	691059	21.35	544759	25.22
05	BACK2A	1000939	15.77	689827	21.34	569001	25.21
06	AOC3-3B[4.0-4.5]	1097093	15.77	789178	21.34	653776	25.20
07	AOC4-1A[0.0-0.5]	1022461	15.78	743197	21.34	591306	25.19
08	AOC3-3A[0.0-0.5]	970134	15.77	719006	21.32	547013	25.17
09	AOC4-3A[0.0-0.5]	1037107	15.78	708665	21.33	554362	25.17
10	AOC4-1A[0.0-0.5]MS	1011391	15.77	715785	21.33	545726	25.15
11	AOC4-1A[0.0-0.5]MSD	1042731	15.77	788919	21.32	583899	25.14

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

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0062 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041354.D Time Analyzed: 12:43

Instrument ID: BNAA

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	237354	6.69	745666	9.08	528059	12.68
UPPER LIMIT	474708	7.19	1491332	9.58	1056118	13.18
LOWER LIMIT	118677	6.19	372833	8.58	264030	12.18
EPA SAMPLE NO.						

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 UPPER LIMIT = -0.50 minutes of internal standard RT

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

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

EPA Sample No. (SSTD020##): CCC0020BA0062 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041354.D Time Analyzed: 12:43

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	920071	15.77	1040607	21.32	856450	25.11
UPPER LIMIT	1840142	16.27	2081214	21.82	1712900	25.61
LOWER LIMIT	460036	15.27	520304	20.82	428225	24.61
EPA SAMPLE NO.						

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

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

CHEMTECH

SEMI-VOLATILE SAMPLE DATA

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-1A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-01

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041347.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 10.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	87	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-1A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-01

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041347.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 10.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	94	J
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	250	
129-00-0	Pyrene	320	
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	180	J
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	180	J
207-08-9	Benzo(k)fluoranthene	81	J
50-32-8	Benzo(a)pyrene	140	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	85	J
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC4-1A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-01

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041347.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 10.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

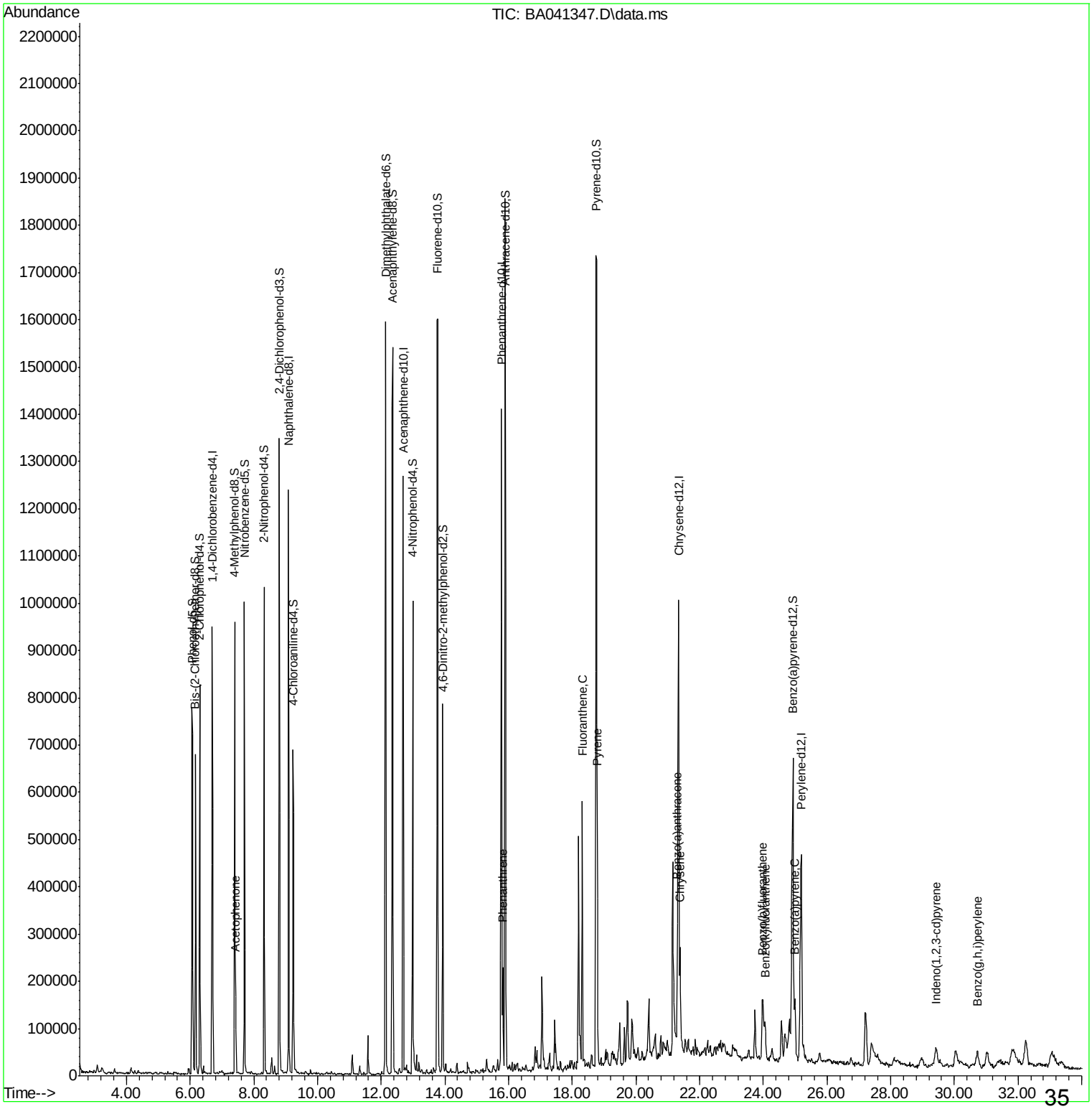
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.		unknown17.05	17.05	120	J
02.		unknown18.20	18.20	260	J
03.		unknown19.73	19.73	140	J
04.	56221-91-1	13-Tetradecen-1-ol acetate	21.15	410	JN
05.	7683-64-9	Squalene	23.74	140	JN
06.	629-59-4	Tetradecane	24.57	140	JN
07.		unknown24.68	24.68	110	J
08.	205-82-3	Benzo[j]fluoranthene	24.83	110	JN
09.	55162-61-3	Tetracontane, 3,5,24-trimethyl-	27.20	230	JN
10.	139123-69-6	1-Bromo-11-iodoundecane	27.39	120	JN
11.		unknown31.02	31.02	78	J
12.	1000100-07-8	4-(p-N,N-dimethylaminophenylimi	32.24	140	JN
13.		unknown33.07	33.07	120	J
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

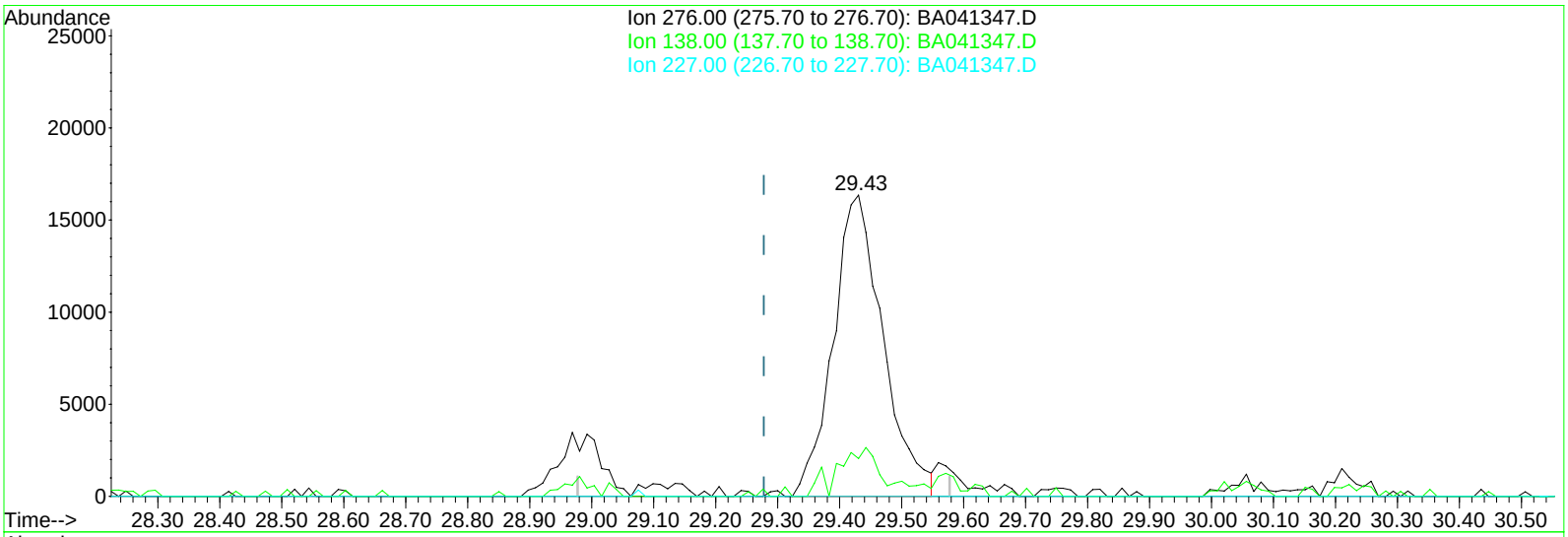
Quant Time: Oct 21 08:38:55 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

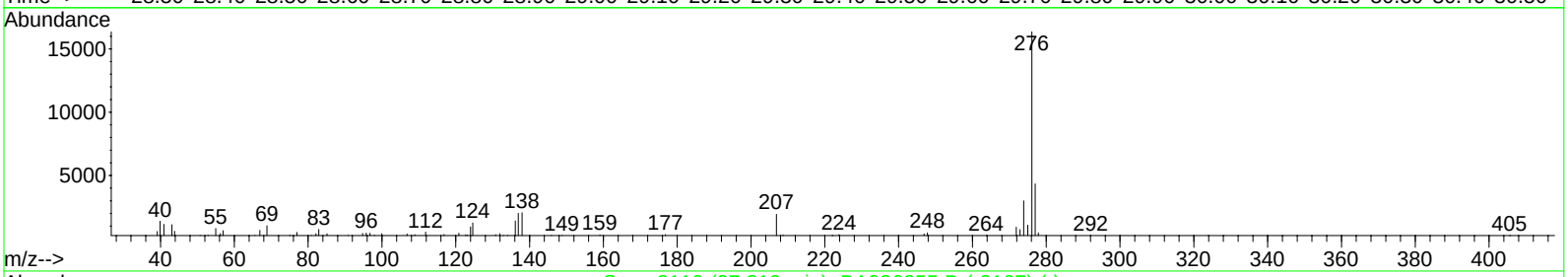


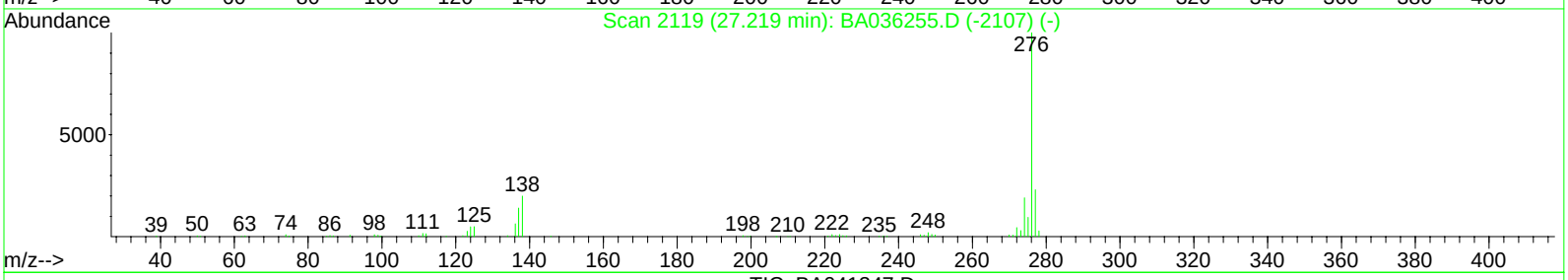
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 21 08:36:23 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041347.D

(87) Indeno(1,2,3-cd)pyrene

29.430min (+0.153) 2.94ng/ul

response 91638

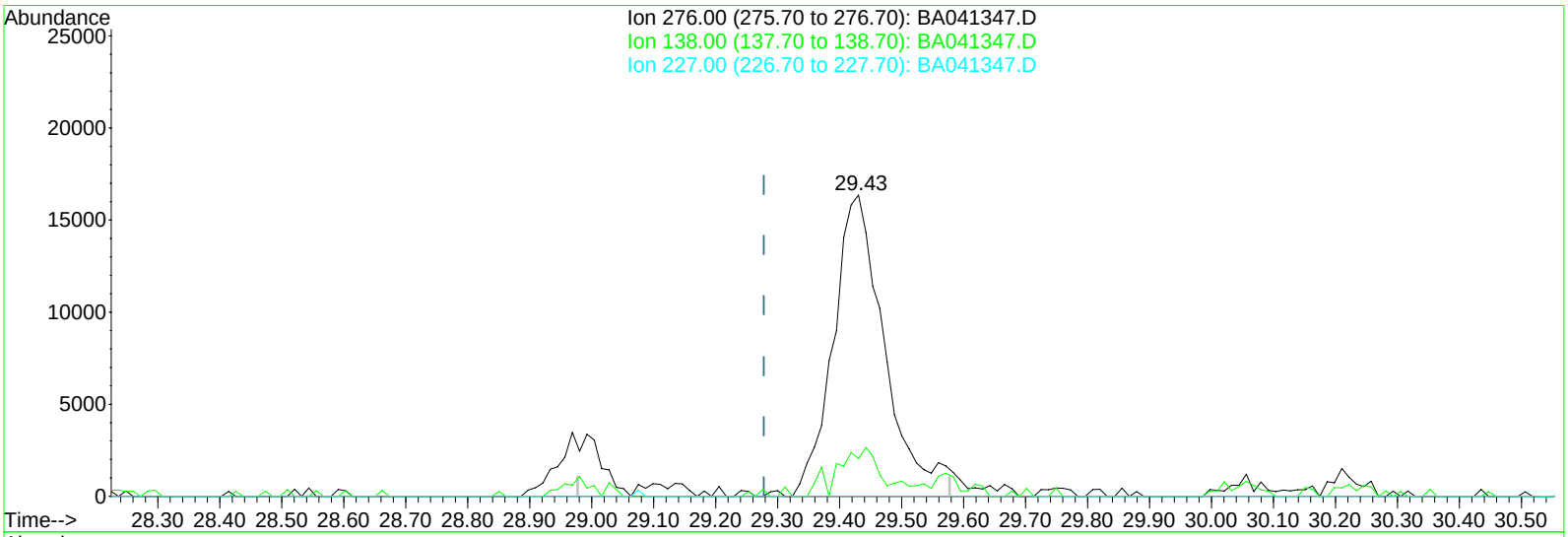
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	12.56#
227.00	0.00	0.00
0.00	0.00	0.00

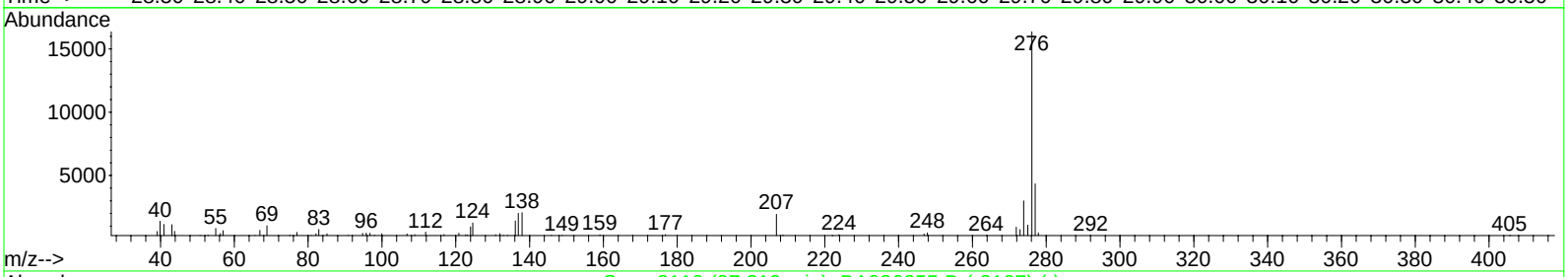
36

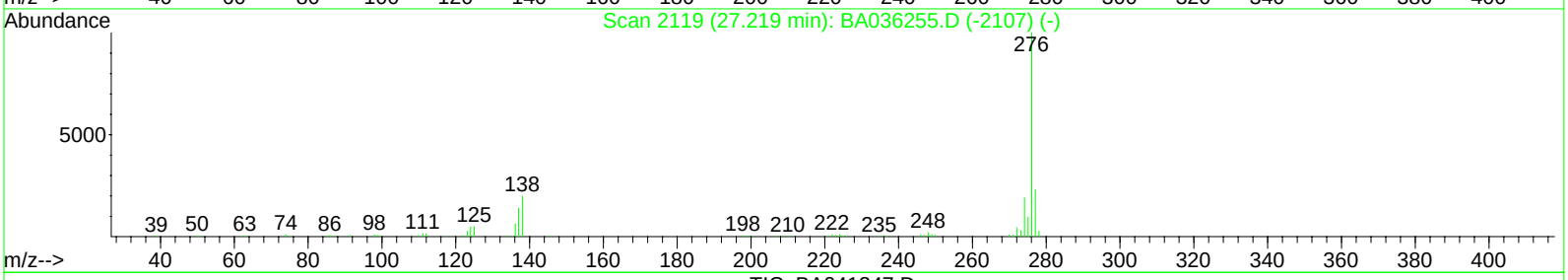
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 21 08:36:23 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041347.D

(87) Indeno(1,2,3-cd)pyrene

29.430min (+0.153) 3.14ng/ul m

response 98114

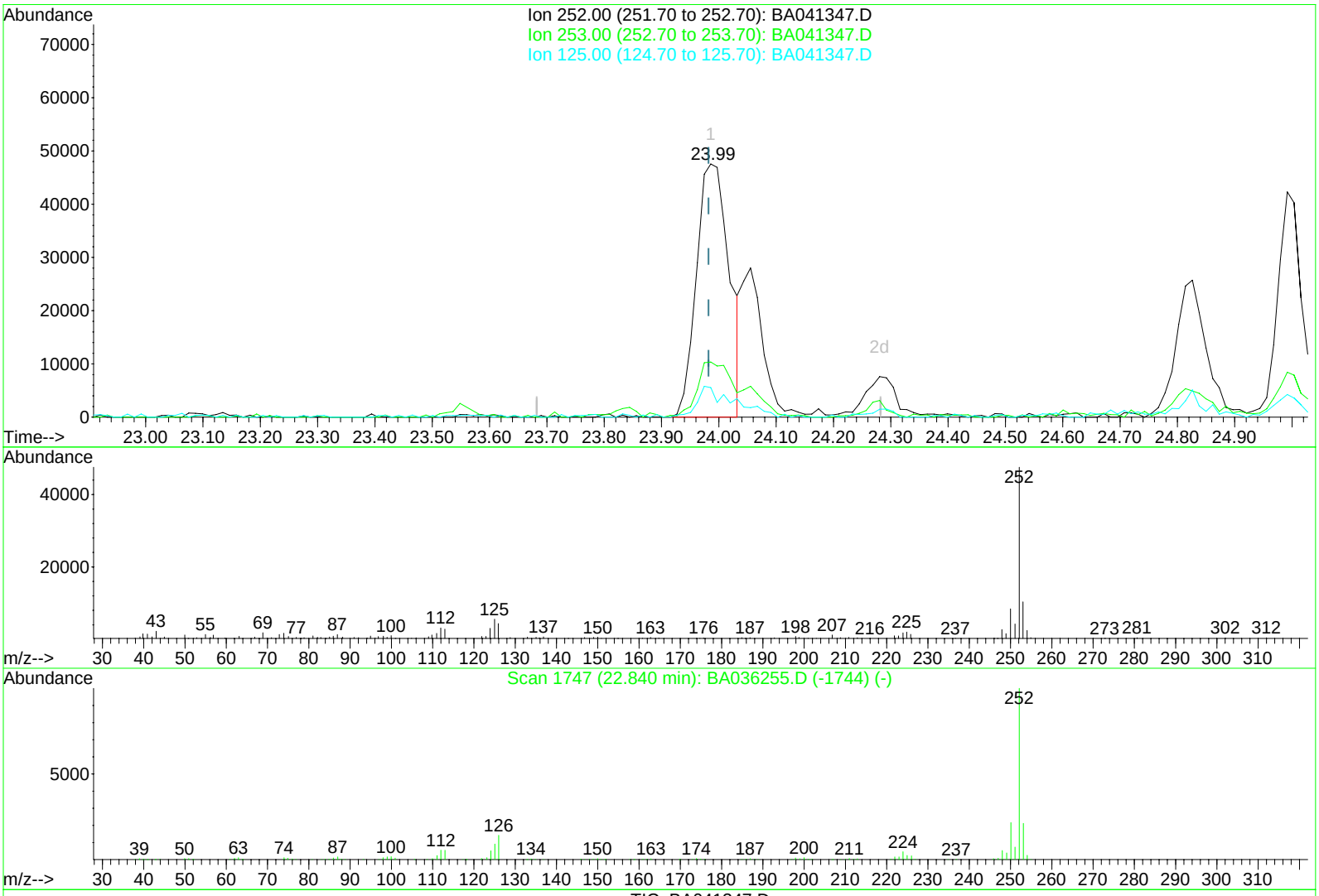
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	12.56#
227.00	0.00	0.00
0.00	0.00	0.00

37

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 21 08:36:23 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041347.D

(84) Benzo(k)fluoranthene

23.986min (+0.004) 5.81ng/ul

response 191016

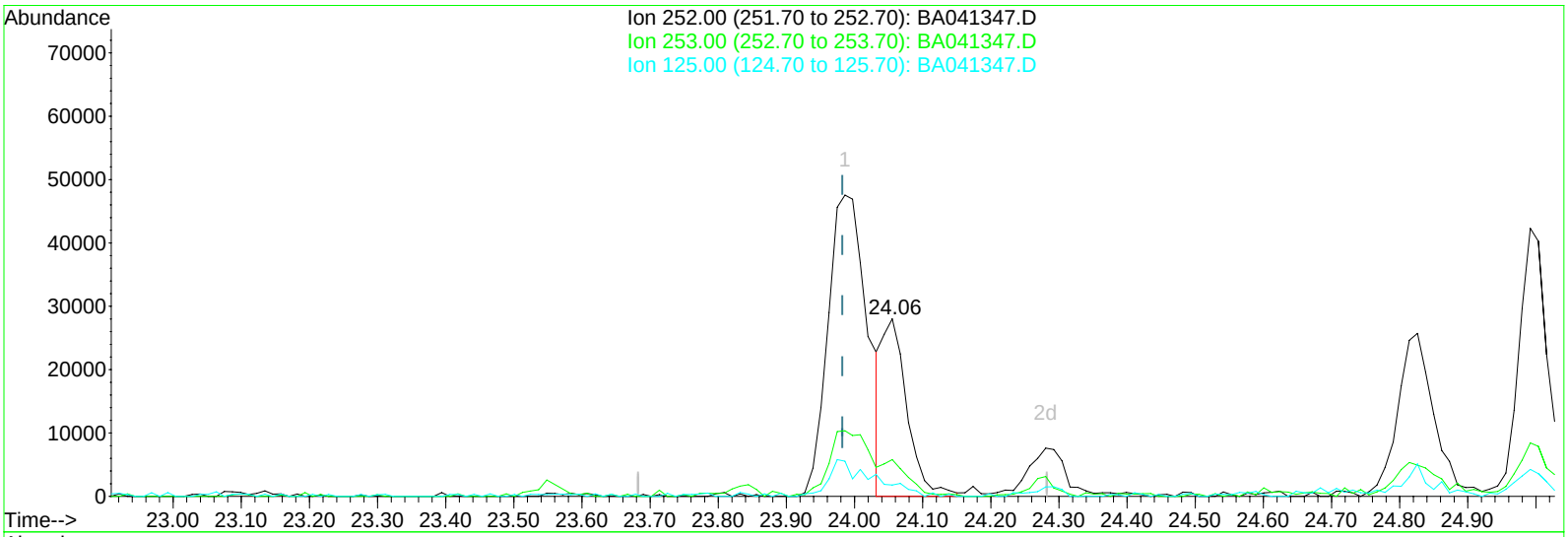
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.78
125.00	4.40	11.70#
0.00	0.00	0.00

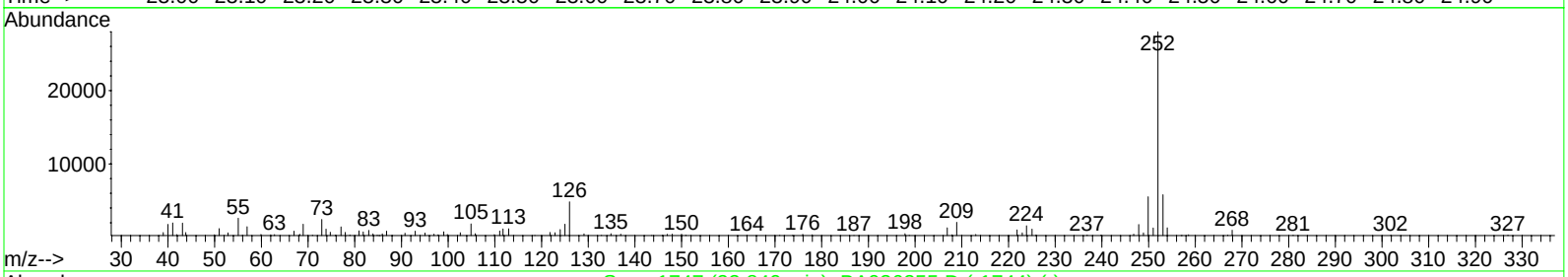
38

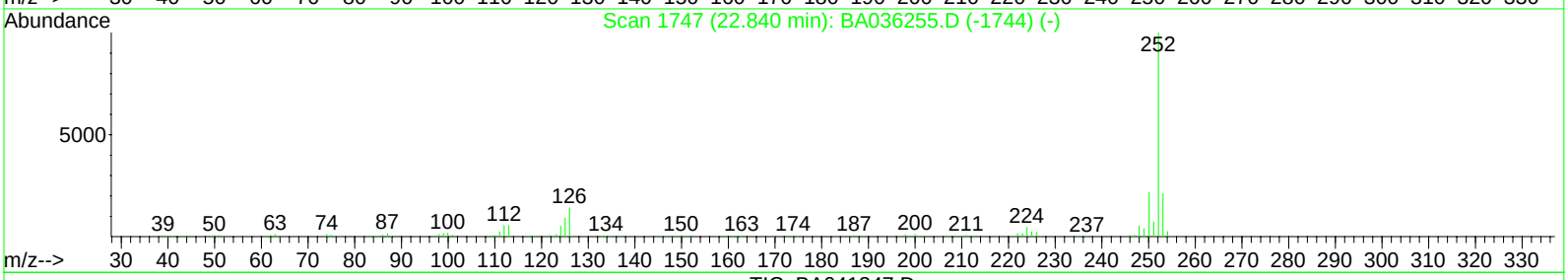
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 21 08:36:23 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041347.D

(84) Benzo(k)fluoranthene

24.055min (+0.073) 2.18ng/ul m

response 71601

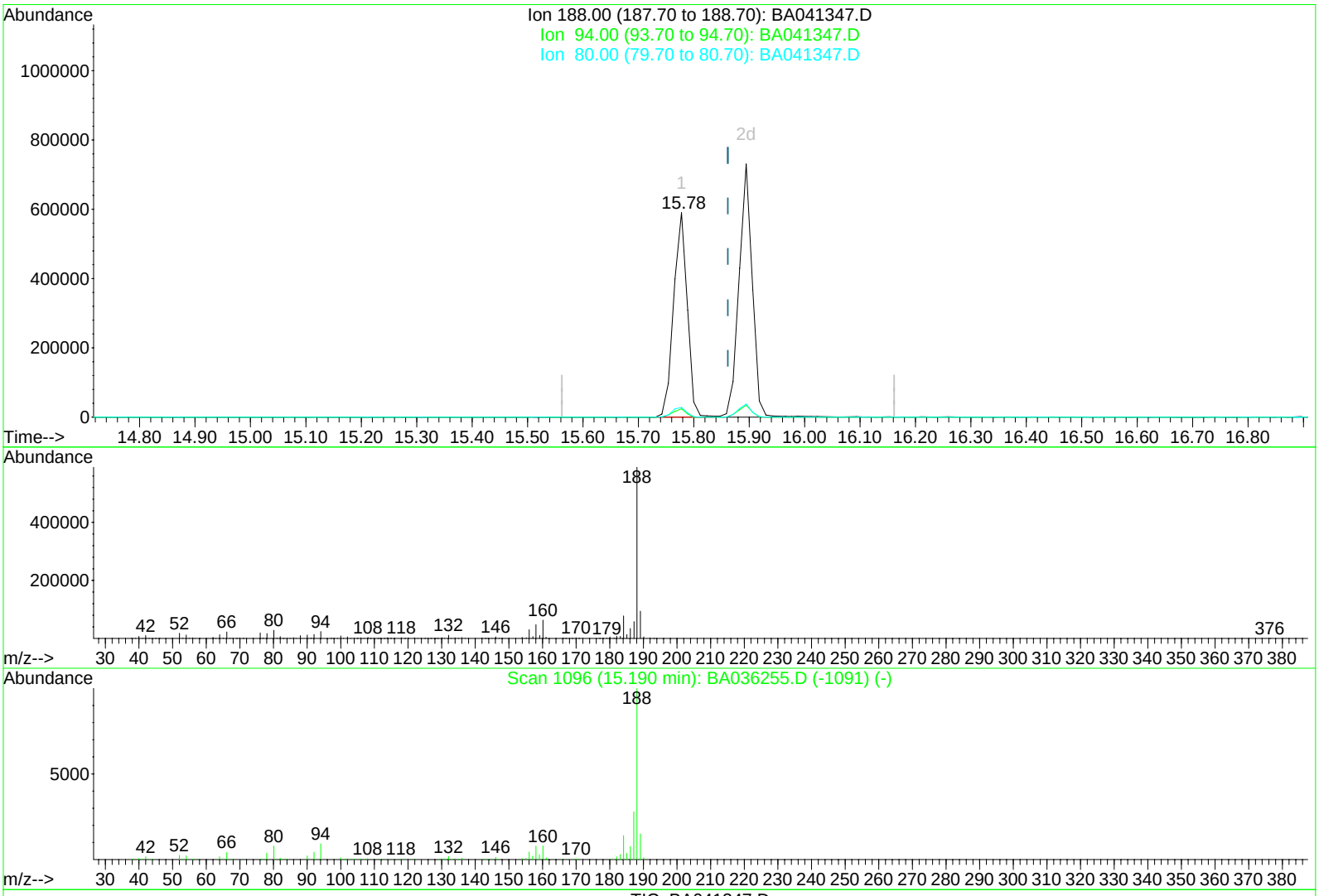
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	20.73
125.00	4.40	6.41#
0.00	0.00	0.00

39

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 21 08:36:23 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041347.D

(68) Anthracene-d10 (S)

15.778min (-0.084) 20.89ng/ul

response 1022461

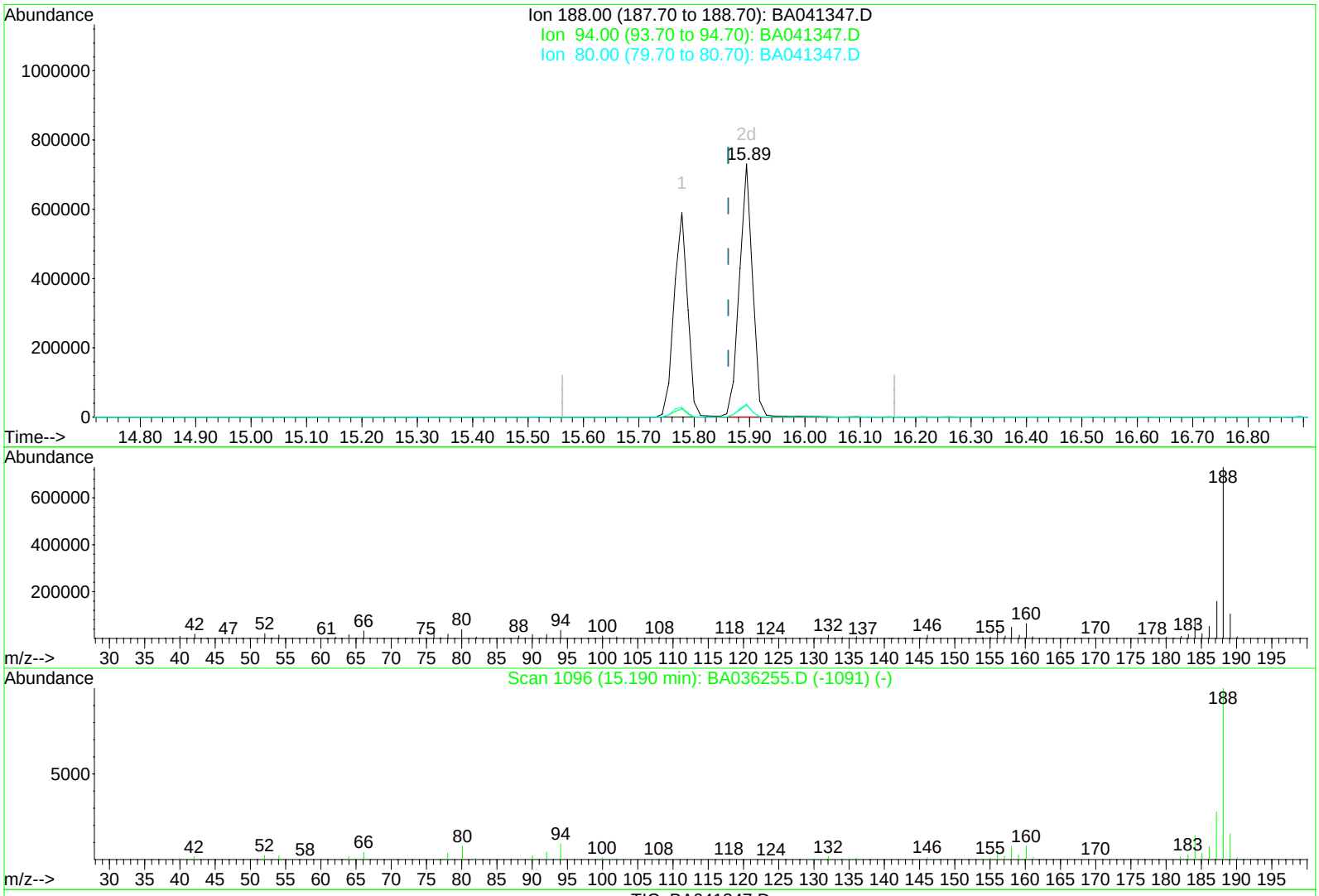
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.08
80.00	4.20	4.81
0.00	0.00	0.00

40

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 21 08:36:23 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041347.D

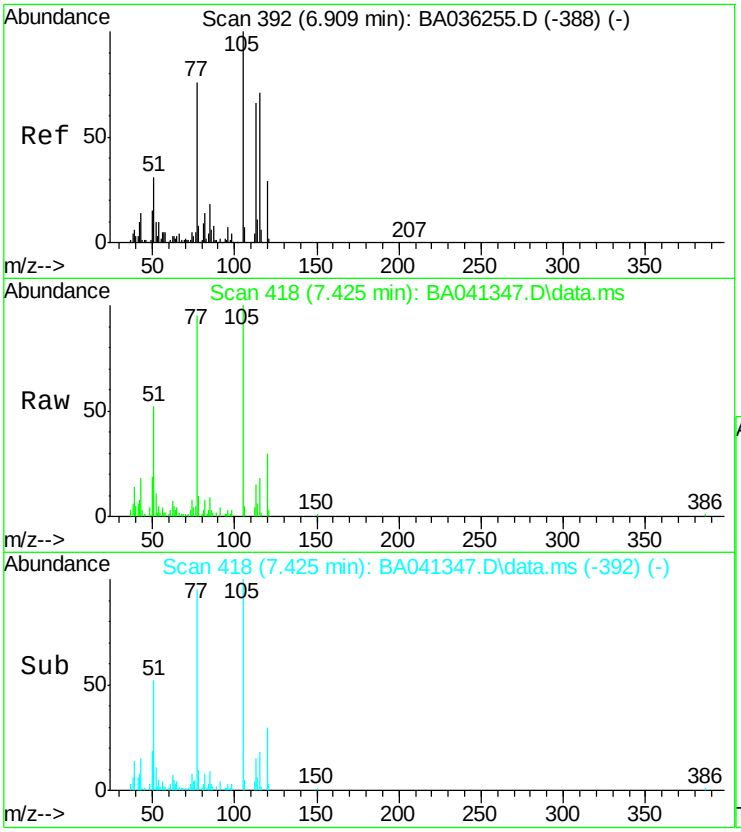
(68) Anthracene-d10 (S)

15.894min (+0.033) 24.66ng/ul m

response 1206951

Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.76
80.00	4.20	5.20#
0.00	0.00	0.00

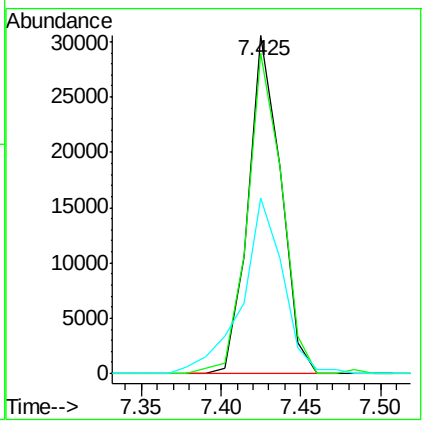
41

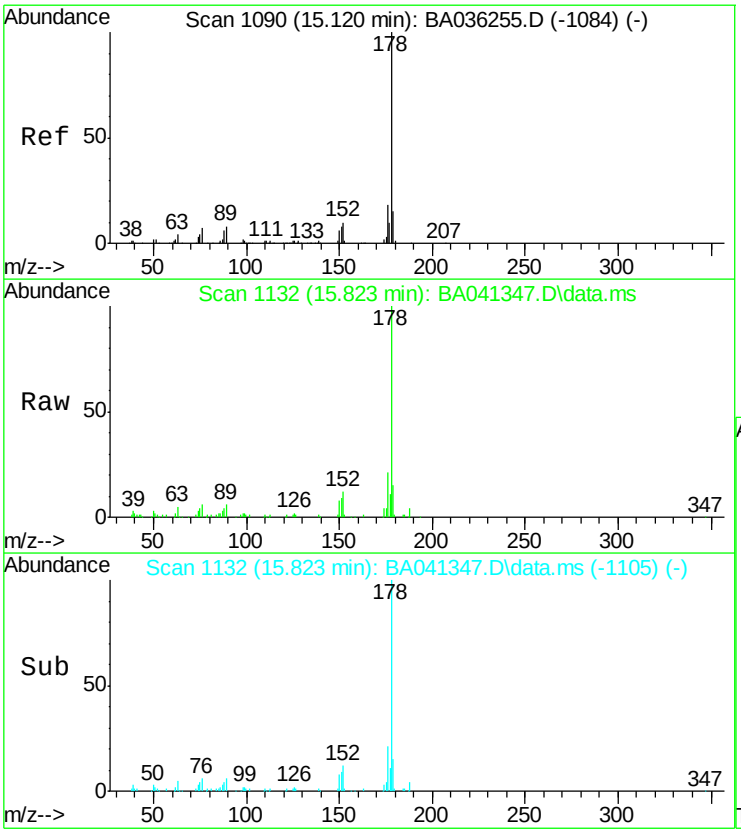


#12
Acetophenone
Concen: 2.34 ng/ul
RT: 7.425 min Scan# 418
Delta R.T. 0.003 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:105 Resp: 44208

Ion	Ratio	Lower	Upper
105	100		
77	94.7	69.4	104.2
51	51.8	42.1	63.1

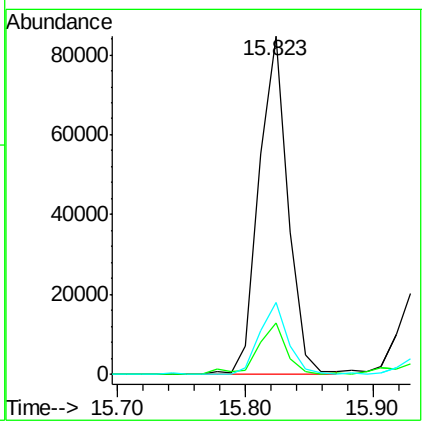


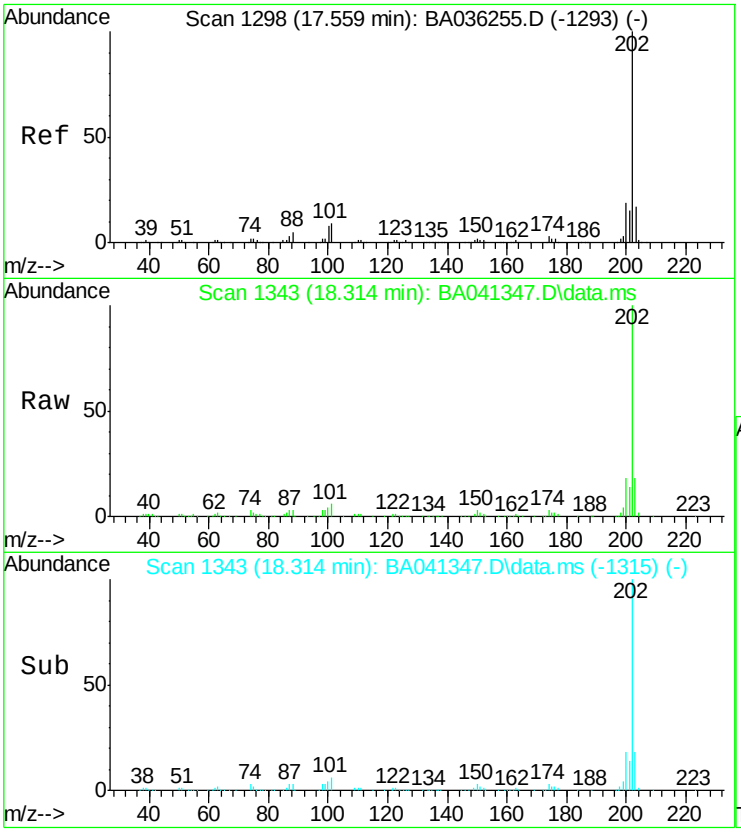


#67
Phenanthrene
Concen: 2.55 ng/ul
RT: 15.823 min Scan# 1132
Delta R.T. 0.021 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:178 Resp: 132777

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	21.3	14.8	22.2

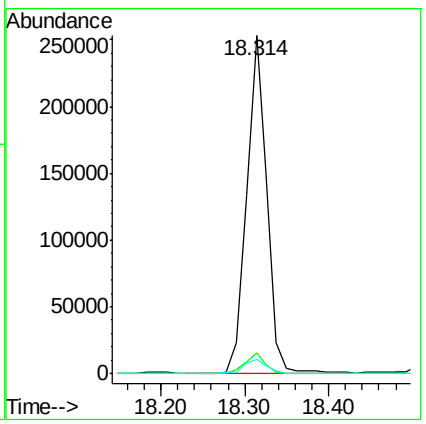


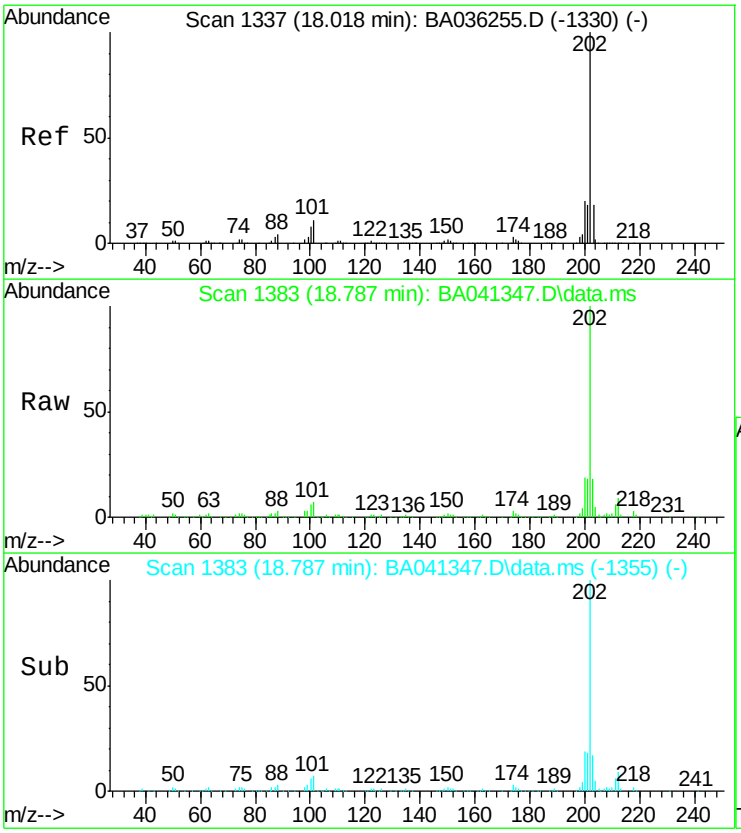


#72
Fluoranthene
Concen: 6.88 ng/ul
RT: 18.314 min Scan# 1343
Delta R.T. 0.029 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:202 Resp: 425601

Ion	Ratio	Lower	Upper
202	100		
101	5.9	2.6	4.0#
100	4.0	2.9	4.3

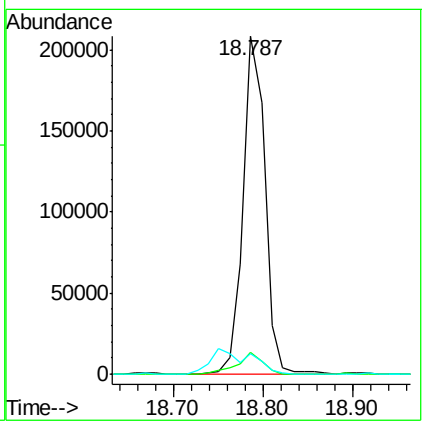


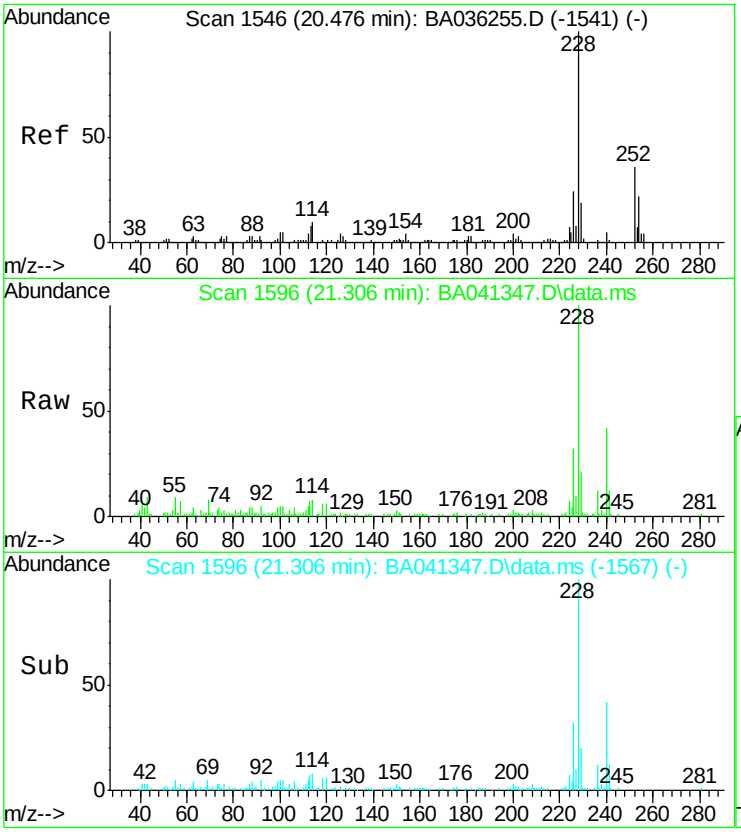


#75
Pyrene
Concen: 8.61 ng/ul
RT: 18.787 min Scan# 1383
Delta R.T. 0.030 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:202 Resp: 354931

Ion	Ratio	Lower	Upper
202	100		
101	6.5	3.5	5.3#
100	6.2	3.4	5.0#

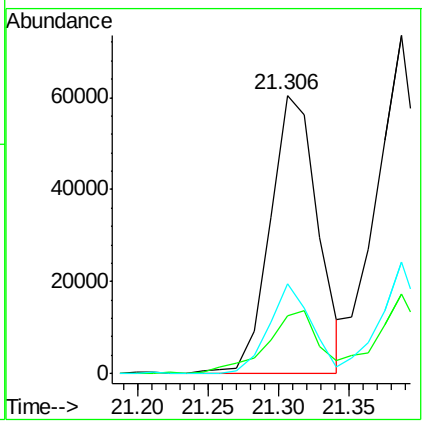


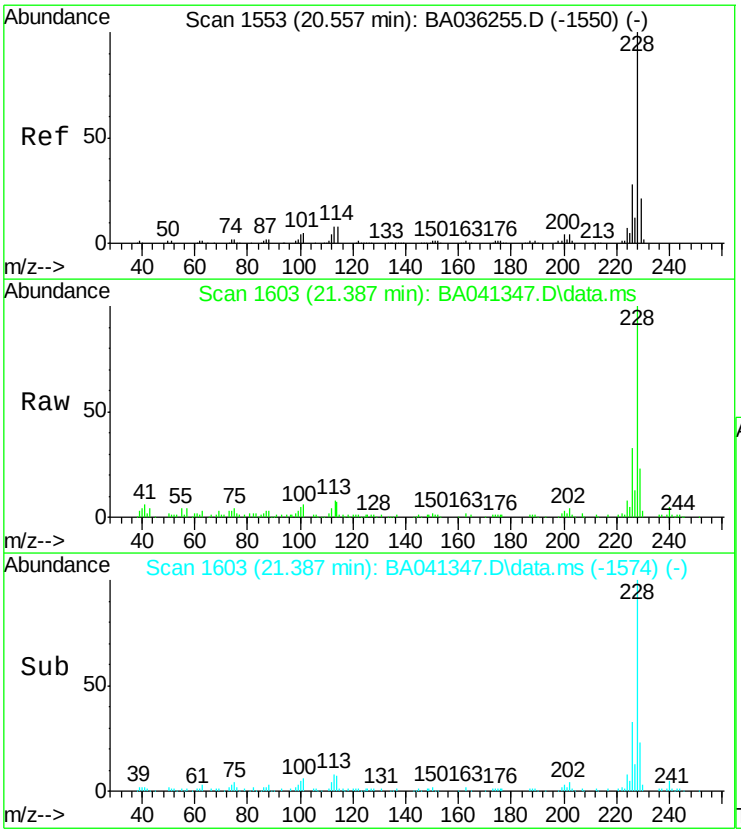


#78
Benzo(a)anthracene
Concen: 3.65 ng/ul
RT: 21.306 min Scan# 1596
Delta R.T. 0.040 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:228 Resp: 143804

Ion	Ratio	Lower	Upper
228	100		
229	20.6	15.9	23.9
226	32.4	20.2	30.2#

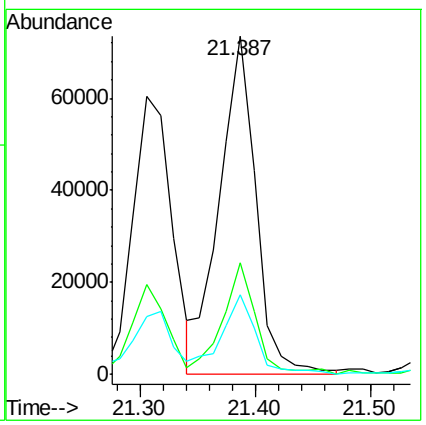


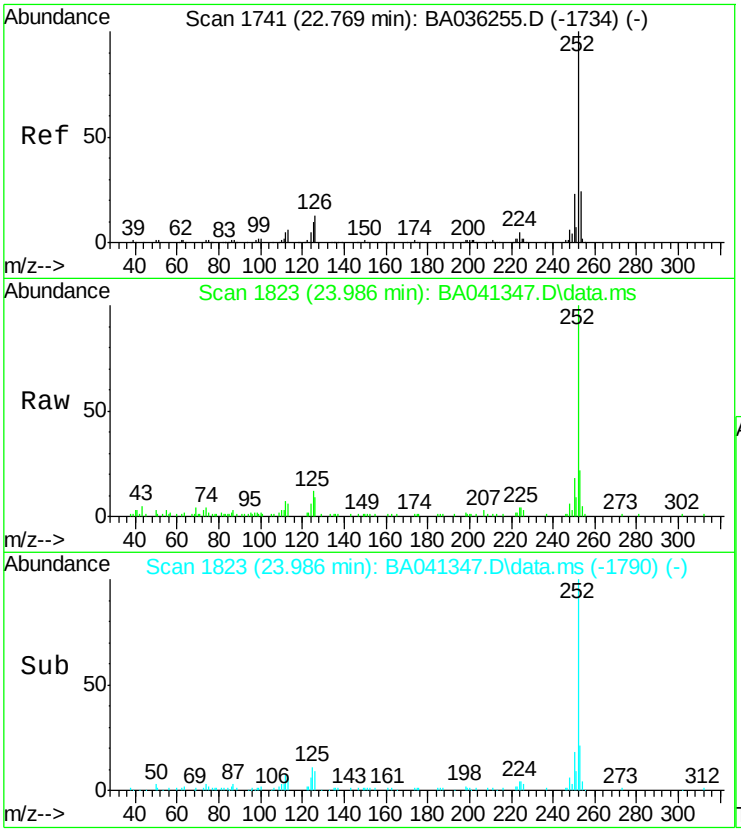


#80
Chrysene
Concen: 4.82 ng/ul
RT: 21.387 min Scan# 1603
Delta R.T. 0.039 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:228 Resp: 161180

Ion	Ratio	Lower	Upper
228	100		
226	33.0	20.6	31.0#
229	23.4	14.4	21.6#

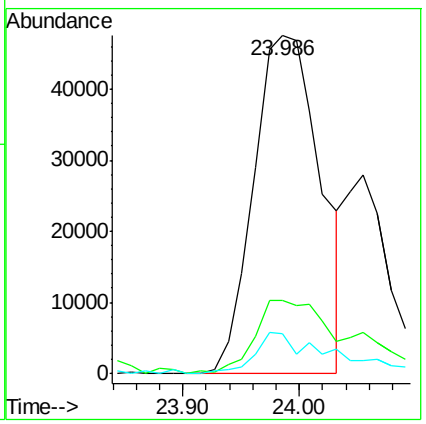


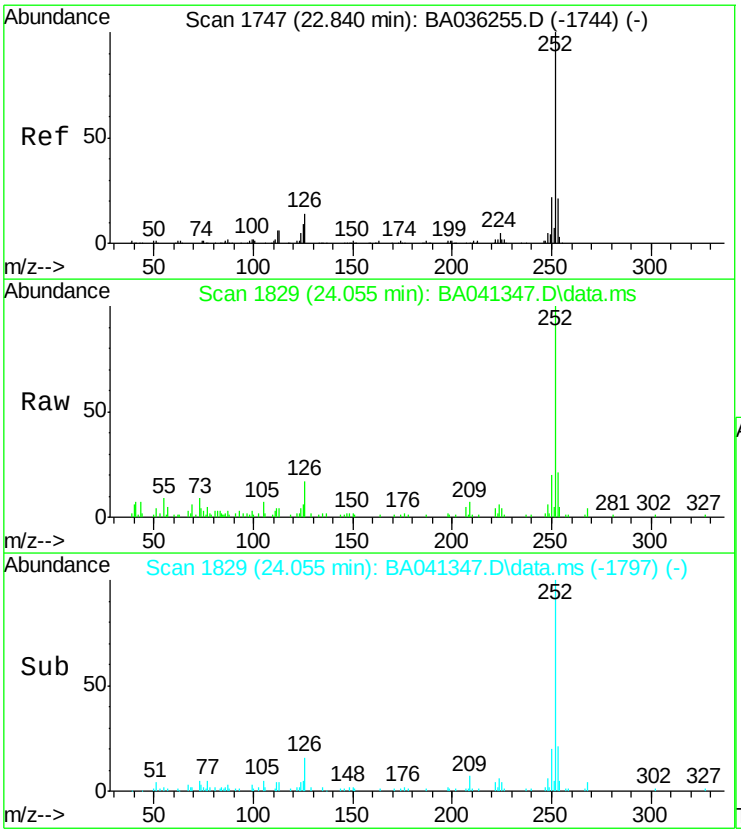


#83
Benzo(b)fluoranthene
Concen: 4.95 ng/ul
RT: 23.986 min Scan# 1823
Delta R.T. 0.087 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:252 Resp: 191016

Ion	Ratio	Lower	Upper
252	100		
253	21.8	16.2	24.2
125	11.7	4.1	6.1#

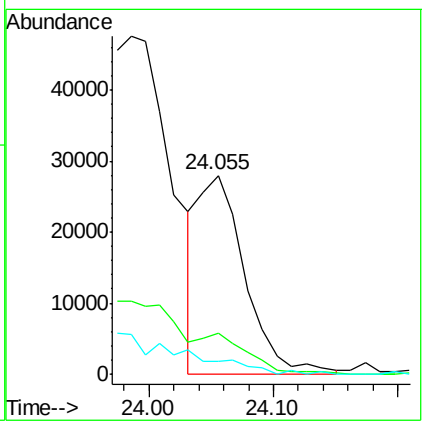


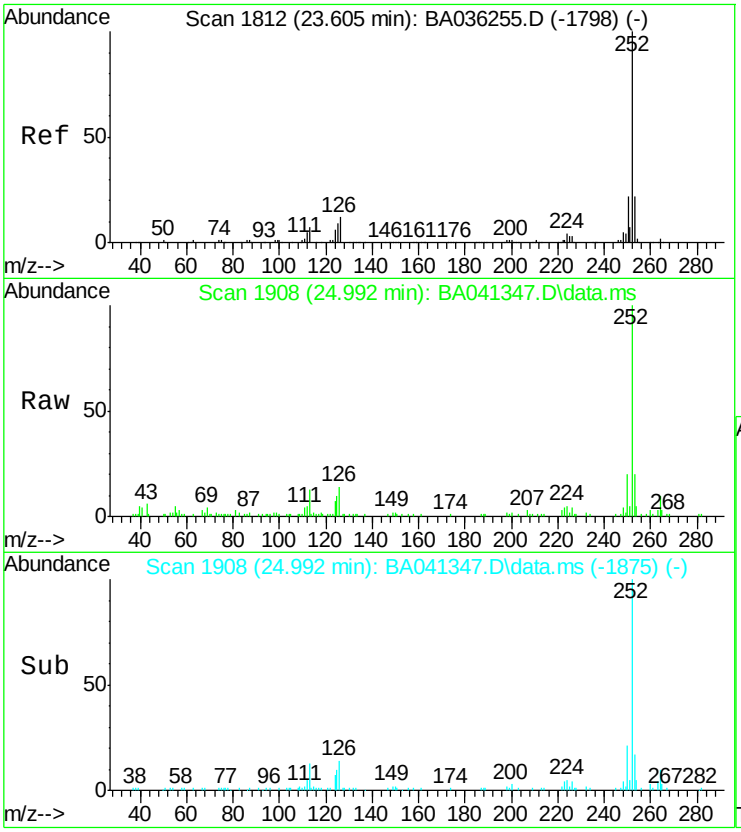


#84
Benzo(k)fluoranthene
Concen: 2.18 ng/ul m
RT: 24.055 min Scan# 1829
Delta R.T. 0.073 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:252 Resp: 71601

Ion	Ratio	Lower	Upper
252	100		
253	20.7	18.2	27.4
125	6.4	3.5	5.3#

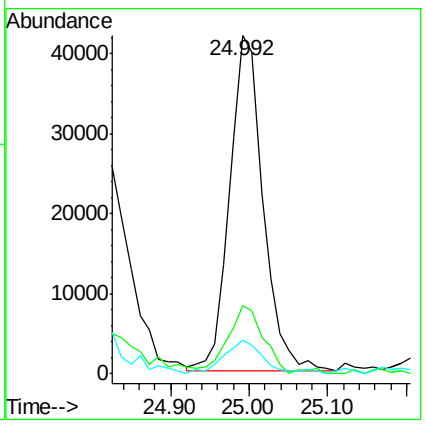


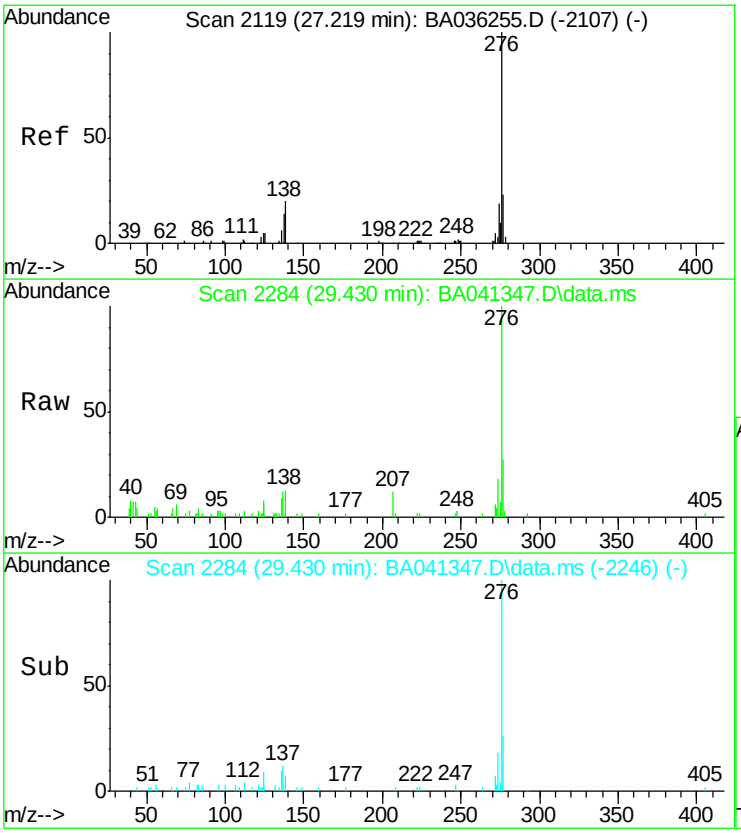


#86
Benzo(a)pyrene
Concen: 3.72 ng/ul
RT: 24.992 min Scan# 1908
Delta R.T. 0.093 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:252 Resp: 123792

Ion	Ratio	Lower	Upper
252	100		
253	20.0	15.1	22.7
125	10.1	3.4	5.2#

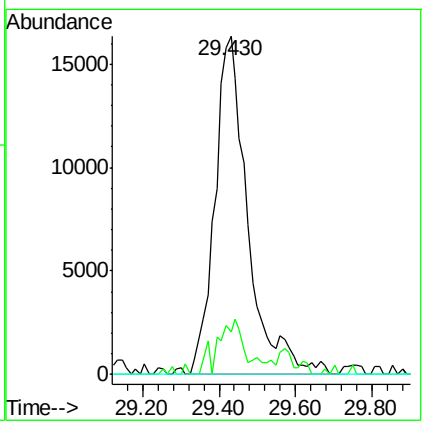


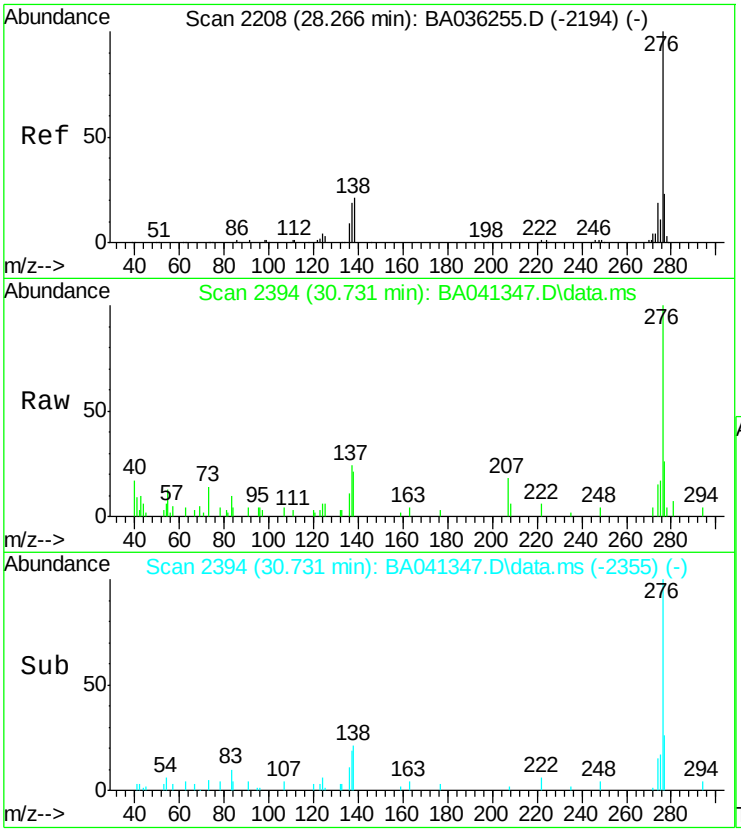


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.14 ng/ul m
RT: 29.430 min Scan# 2284
Delta R.T. 0.153 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:276 Resp: 98114

Ion	Ratio	Lower	Upper
276	100		
138	12.6	8.2	12.2#
227	0.0	0.0	0.0

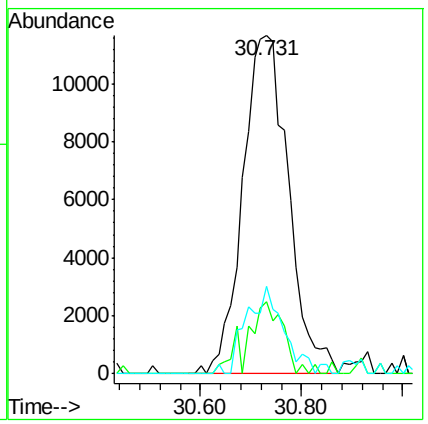




#89
Benzo(g,h,i)perylene
Concen: 2.31 ng/ul
RT: 30.731 min Scan# 2394
Delta R.T. 0.167 min
Lab File: BA041347.D
Acq: 21 Oct 2008 7:53

Tgt Ion:276 Resp: 72799

Ion	Ratio	Lower	Upper
276	100		
138	21.3	10.6	16.0#
277	25.6	20.2	30.2



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 21 08:38:55 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.697	152	235524	20.00	ng/ul	0.02
16) Naphthalene-d8	9.092	136	784748	20.00	ng/ul	0.01
33) Acenaphthene-d10	12.693	164	542915	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.778	188	1022461	20.00	ng/ul	0.02
73) Chrysene-d12	21.340	240	743197	20.00	ng/ul	0.05
81) Perylene-d12	25.193	264	591306	20.00	ng/ul	0.12
System Monitoring Compounds						
3) Phenol-d5	6.062	99	343351	24.08	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.167	67	239015	24.72	ng/ul	0.01
7) 2-Chlorophenol-d4	6.296	132	315414	26.03	ng/ul	0.00
11) 4-Methylphenol-d8	7.402	113	227191	23.48	ng/ul	0.02
17) Nitrobenzene-d5	7.708	128	178347	25.67	ng/ul	0.01
20) 2-Nitrophenol-d4	8.330	143	220954	25.84	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.800	165	358841	22.67	ng/ul	0.01
27) 4-Chloroaniline-d4	9.234	131	280017	17.89	ng/ul	0.01
41) Dimethylphthalate-d6	12.138	166	1069013	29.56	ng/ul	0.02
44) Acenaphthylene-d8	12.362	160	1186444	26.99	ng/ul	0.02
49) 4-Nitrophenol-d4	12.988	143	222248	30.16	ng/ul	0.02
55) Fluorene-d10	13.776	176	782932	26.92	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.941	200	206324	19.50	ng/ul	0.02
68) Anthracene-d10	15.894	188	1206951m	24.66	ng/ul	0.03
74) Pyrene-d10	18.751	212	1380610	42.51	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.932	264	843266	26.19	ng/ul	0.12
Target Compounds						Qvalue
12) Acetophenone	7.425	105	44208	2.34	ng/ul	94
67) Phenanthrene	15.823	178	132777	2.55	ng/ul	96
72) Fluoranthene	18.314	202	425601	6.88	ng/ul#	96
75) Pyrene	18.787	202	354931	8.61	ng/ul#	94
78) Benzo(a)anthracene	21.306	228	143804	3.65	ng/ul#	91
80) Chrysene	21.387	228	161180	4.82	ng/ul#	87
83) Benzo(b)fluoranthene	23.986	252	191016	4.95	ng/ul#	93
84) Benzo(k)fluoranthene	24.055	252	71601m	2.18	ng/ul	
86) Benzo(a)pyrene	24.992	252	123792	3.72	ng/ul#	95
87) Indeno(1,2,3-cd)pyrene	29.430	276	98114m	3.14	ng/ul	
89) Benzo(g,h,i)perylene	30.731	276	72799	2.31	ng/ul#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041347.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.084	45	48	52	rVV2	18898	46141	1.04%	0.084%
2	3.224	58	60	68	rVB7	12371	44210	0.99%	0.080%
3	4.149	133	139	146	rVB4	12726	41736	0.94%	0.076%
4	5.967	289	294	297	rVV3	11553	30965	0.70%	0.056%
5	6.062	299	302	308	rVV	775447	1461986	32.85%	2.657%
6	6.167	308	311	319	rVV	677158	976699	21.94%	1.775%
7	6.296	319	322	330	rVV	824347	1412204	31.73%	2.566%
8	6.414	330	332	334	rVV2	16846	27970	0.63%	0.051%
9	6.697	353	356	361	rVV	945147	1535898	34.51%	2.791%
10	7.402	412	416	422	rVB2	956177	1576458	35.42%	2.865%
11	7.708	438	442	445	rBV	997939	1472521	33.08%	2.676%
12	8.330	491	495	498	rBV	1029506	1456524	32.72%	2.647%
13	8.565	509	515	519	rBV2	34243	78338	1.76%	0.142%
14	8.648	519	522	526	rVB2	17104	28658	0.64%	0.052%
15	8.800	532	535	538	rBV	1345123	1886508	42.38%	3.428%
16	9.092	557	560	563	rBV	1230136	1712272	38.47%	3.112%
17	9.234	569	572	578	rBV	680644	1096064	24.62%	1.992%
18	11.092	726	730	734	rBV3	41890	75727	1.70%	0.138%
19	11.328	746	750	754	rBV2	18379	33110	0.74%	0.060%
20	11.587	769	772	776	rBV	83463	127440	2.86%	0.232%
21	12.138	815	819	822	rBV	1591181	2609726	58.63%	4.743%
22	12.362	834	838	841	rBV	1533969	2660411	59.77%	4.835%
23	12.563	852	855	862	rBV5	11250	37418	0.84%	0.068%
24	12.681	862	865	869	rVV	1265095	2231669	50.14%	4.056%
25	12.740	869	870	872	rVV	15371	24711	0.56%	0.045%
26	12.787	872	874	878	rVV4	19113	41911	0.94%	0.076%
27	12.988	887	891	894	rBV	1000182	1704754	38.30%	3.098%
28	13.117	899	902	905	rVV2	39073	65300	1.47%	0.119%
29	13.188	905	908	912	rVV2	23607	47167	1.06%	0.086%
30	13.270	912	915	918	rVB4	9754	23744	0.53%	0.043%
31	13.423	925	928	933	rBV2	9644	28895	0.65%	0.053%
32	13.647	944	947	951	rBV3	12001	23294	0.52%	0.042%
33	13.776	954	958	961	rVV	1596191	2948573	66.24%	5.359%
34	13.930	968	971	975	rVV	779939	1366377	30.70%	2.483%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.023	977	979	982	rVB	18645	34689	0.78%	0.063%
36	14.199	989	994	995	rBV4	9132	24633	0.55%	0.045%
37	14.376	1004	1009	1013	rVB4	23815	53001	1.19%	0.096%
38	14.717	1036	1038	1045	rBV3	24118	62109	1.40%	0.113%
39	15.318	1086	1089	1092	rBV3	25606	49374	1.11%	0.090%
40	15.518	1099	1106	1113	rBV5	14941	56943	1.28%	0.103%
41	15.660	1115	1118	1120	rVV	27183	45716	1.03%	0.083%
42	15.778	1124	1128	1130	rVV	1402432	2380062	53.47%	4.325%
43	15.823	1130	1132	1134	rVV	220312	339627	7.63%	0.617%
44	15.894	1134	1138	1145	rVV	1846466	3166095	71.13%	5.754%
45	16.105	1153	1156	1159	rVB4	20308	30545	0.69%	0.056%
46	16.282	1168	1171	1174	rVB	17246	35728	0.80%	0.065%
47	16.541	1191	1193	1199	rVB5	12356	33693	0.76%	0.061%
48	16.766	1207	1212	1213	rBV4	11089	23573	0.53%	0.043%
49	16.837	1213	1218	1220	rBV2	49418	112342	2.52%	0.204%
50	16.896	1220	1223	1227	rVB	40065	85646	1.92%	0.156%
51	17.050	1233	1236	1240	rBV3	194633	378269	8.50%	0.687%
52	17.286	1252	1256	1262	rVB6	37075	101312	2.28%	0.184%
53	17.451	1267	1270	1272	rBV2	103149	187060	4.20%	0.340%
54	17.629	1283	1285	1288	rVB4	19065	31899	0.72%	0.058%
55	17.923	1308	1310	1312	rVB2	17748	24545	0.55%	0.045%
56	17.983	1312	1315	1320	rVB3	19184	56358	1.27%	0.102%
57	18.065	1320	1322	1325	rBV4	15040	33890	0.76%	0.062%
58	18.148	1327	1329	1330	rBV2	16585	27959	0.63%	0.051%
59	18.195	1330	1333	1336	rVV	481042	837600	18.82%	1.522%
60	18.314	1340	1343	1346	rVB	550930	896872	20.15%	1.630%
61	18.515	1358	1360	1364	rVB5	13899	25510	0.57%	0.046%
62	18.610	1364	1368	1371	rBV3	28559	85609	1.92%	0.156%
63	18.751	1376	1380	1387	rVV2	1716378	4451089	100.00%	8.089%
64	18.905	1391	1393	1395	rVB3	16932	28594	0.64%	0.052%
65	19.047	1402	1405	1407	rBV2	29460	55579	1.25%	0.101%
66	19.095	1407	1409	1413	rVB4	26548	54847	1.23%	0.100%
67	19.236	1418	1421	1422	rBV3	28511	52079	1.17%	0.095%
68	19.448	1435	1439	1440	rBV3	34399	78328	1.76%	0.142%
69	19.496	1440	1443	1448	rVB	92782	201122	4.52%	0.366%
70	19.638	1451	1455	1458	rBV	76478	132493	2.98%	0.241%
71	19.732	1458	1463	1470	rBV3	131448	431128	9.69%	0.784%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	19.874	1472	1475	1480	rVV5	75482	207732	4.67%	0.378%
73	20.063	1489	1491	1494	rVB4	27666	53216	1.20%	0.097%
74	20.406	1518	1520	1523	rVB2	115198	178411	4.01%	0.324%
75	20.607	1535	1537	1542	rVB3	54344	106261	2.39%	0.193%
76	20.784	1550	1552	1556	rBV	44444	92459	2.08%	0.168%
77	20.855	1556	1558	1559	rBV2	25821	38858	0.87%	0.071%
78	20.986	1567	1569	1576	rVB8	33099	88121	1.98%	0.160%
79	21.151	1580	1583	1593	rBV	405641	1253388	28.16%	2.278%
80	21.340	1593	1599	1601	rVV2	927143	2265210	50.89%	4.117%
81	21.387	1601	1603	1606	rVB	186652	302057	6.79%	0.549%
82	21.551	1614	1617	1622	rBV5	27869	69713	1.57%	0.127%
83	21.646	1622	1625	1627	rBV4	26944	53776	1.21%	0.098%
84	23.040	1741	1743	1744	rBV2	23066	33926	0.76%	0.062%
85	23.737	1798	1802	1809	rVB	104861	283702	6.37%	0.516%
86	23.974	1818	1822	1826	rBV3	122196	446451	10.03%	0.811%
87	24.565	1868	1872	1878	rBV2	82556	269878	6.06%	0.490%
88	24.684	1878	1882	1888	rBV7	48651	226049	5.08%	0.411%
89	24.826	1889	1894	1897	rBV	60344	209130	4.70%	0.380%
90	24.932	1897	1903	1906	rBV	582435	1894728	42.57%	3.443%
91	25.193	1918	1925	1930	rBV	429421	1470812	33.04%	2.673%
92	26.756	2055	2057	2063	rVB6	16727	47958	1.08%	0.087%
93	27.205	2090	2095	2103	rVB3	109686	457910	10.29%	0.832%
94	27.393	2106	2111	2121	rBV8	39545	246642	5.54%	0.448%
95	30.032	2330	2335	2338	rBV7	34277	141805	3.19%	0.258%
96	30.731	2385	2394	2404	rVB3	36866	228254	5.13%	0.415%
97	31.025	2414	2419	2429	rVB9	29749	155302	3.49%	0.282%
98	31.780	2480	2483	2484	rBV2	17246	38524	0.87%	0.070%
99	32.241	2516	2522	2530	rVB10	52584	283938	6.38%	0.516%
100	33.068	2581	2592	2597	rBV10	35460	239172	5.37%	0.435%

Sum of corrected areas: 55024680

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
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Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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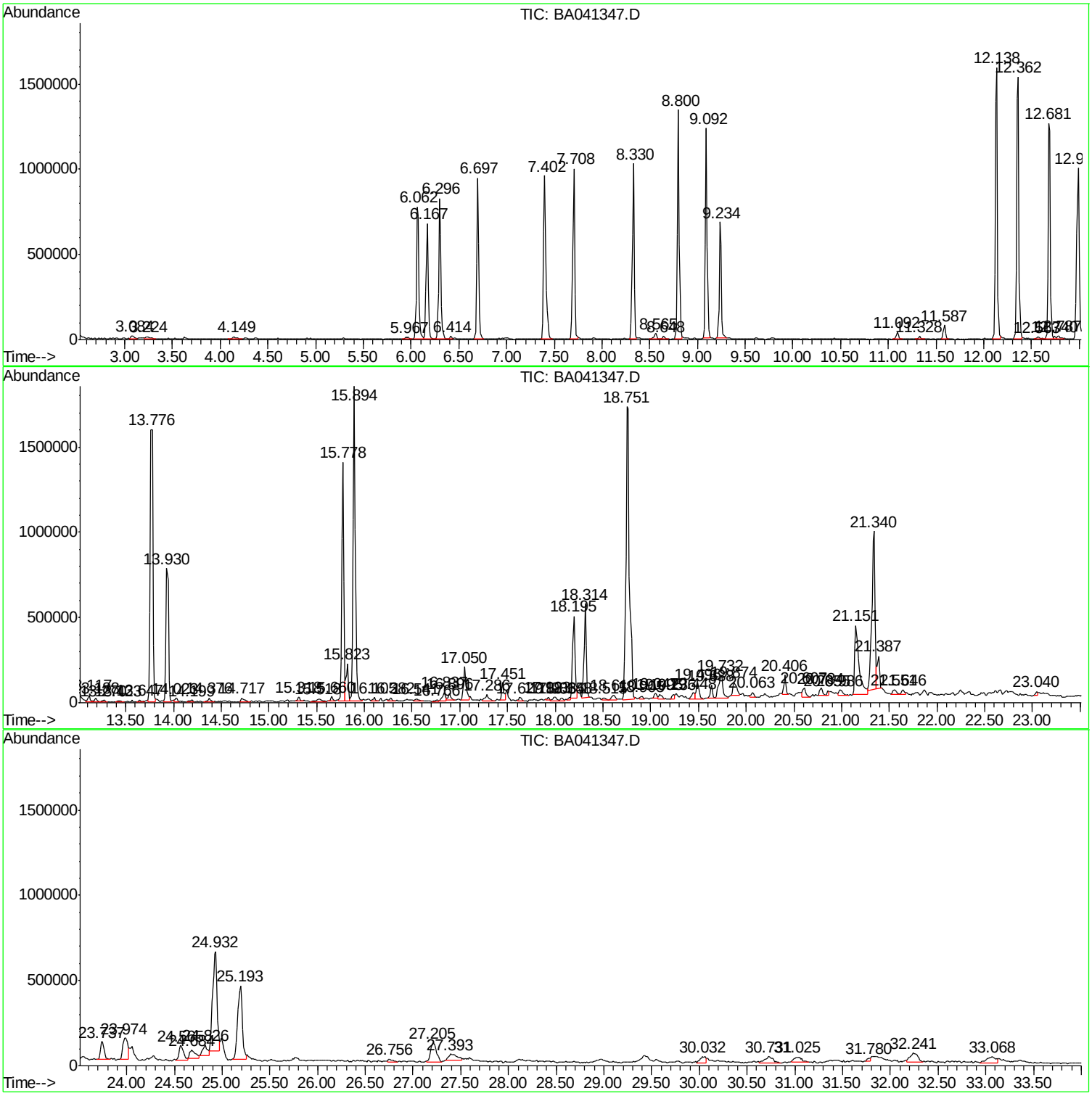

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

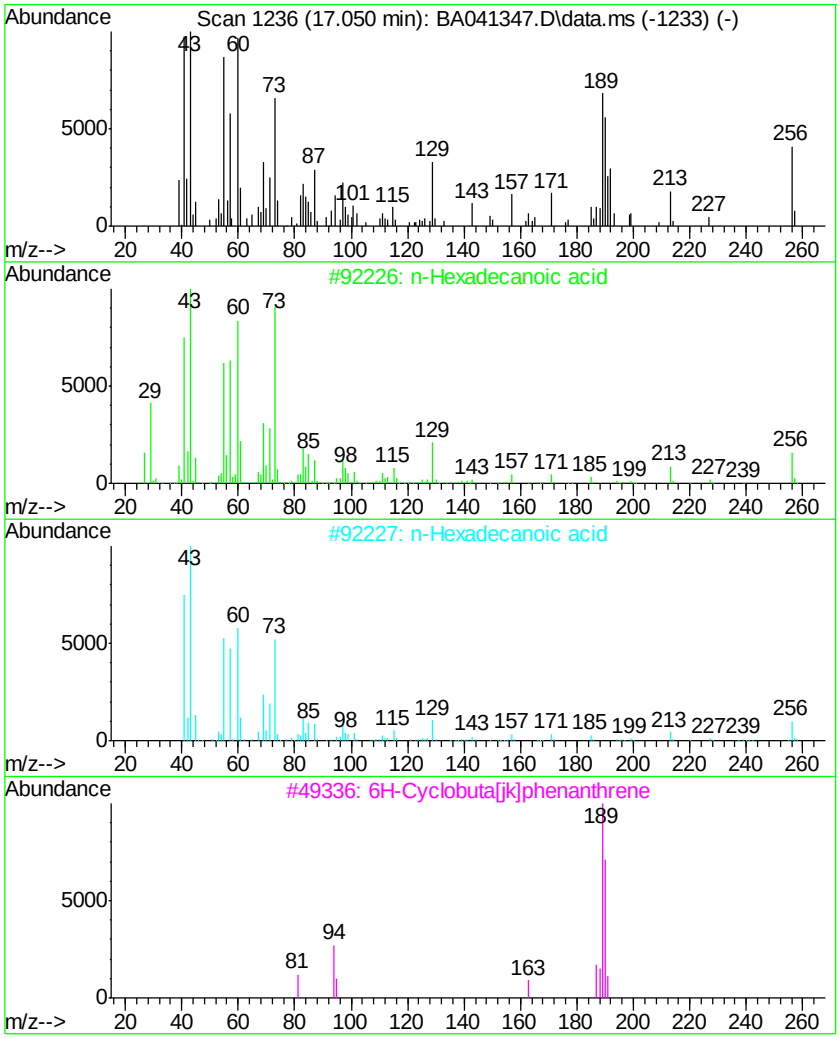
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

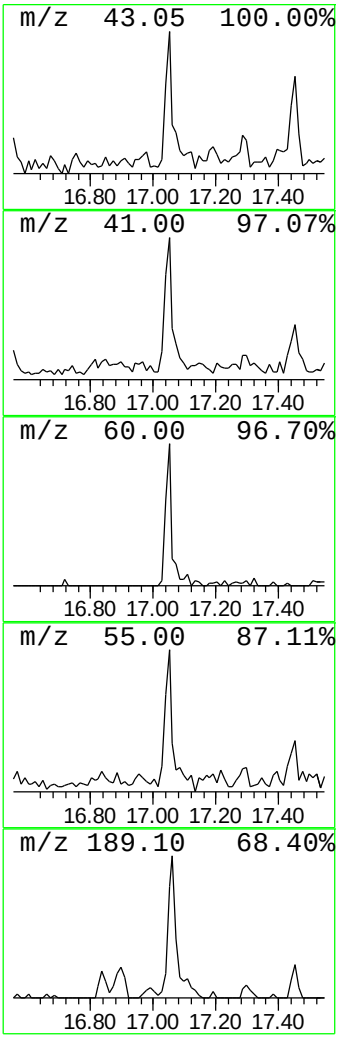
****

Peak Number 1 unknown17.05 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.050	3.18 ng/ul	378269	Phenanthrene-d10	15.778

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	43
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	38
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	30
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	20
5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	18





Library Search Compound Report

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

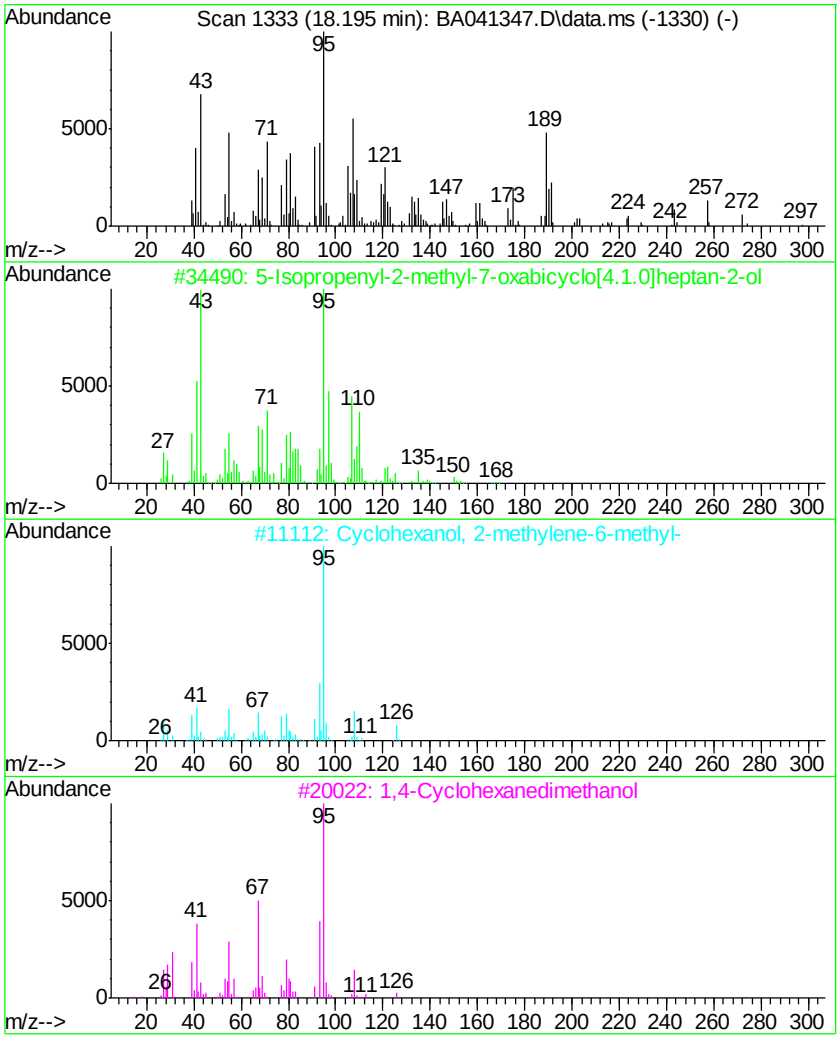
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

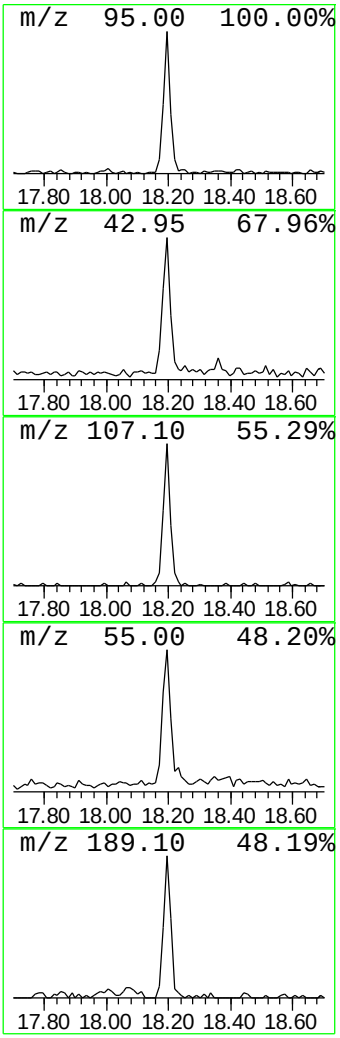
****

Peak Number 2 unknown18.20 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.200	7.04 ng/ul	837600	Phenanthrene-d10	15.778

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Isopropenyl-2-methyl-7-oxabicy...	168	C10H16O2	1000185-00-9	38
2	Cyclohexanol, 2-methylene-6-methyl-	126	C8H14O	1000196-32-3	22
3	1,4-Cyclohexanedimethanol	144	C8H16O2	000105-08-8	22
4	Cyclohexane, 1,2-dimethyl-3,5-bi...	192	C14H24	062337-99-9	15
5	Santolina epoxide	152	C10H16O	060485-45-2	14





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Sample : Z4923-01
Misc :
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Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

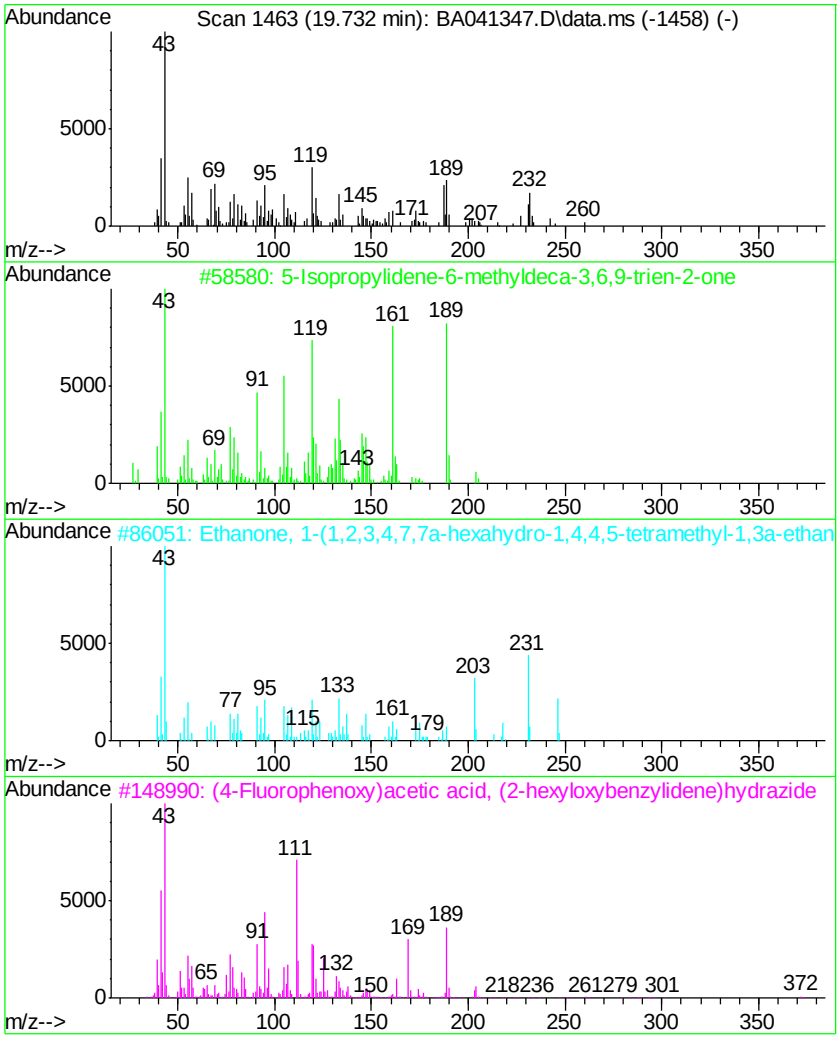
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

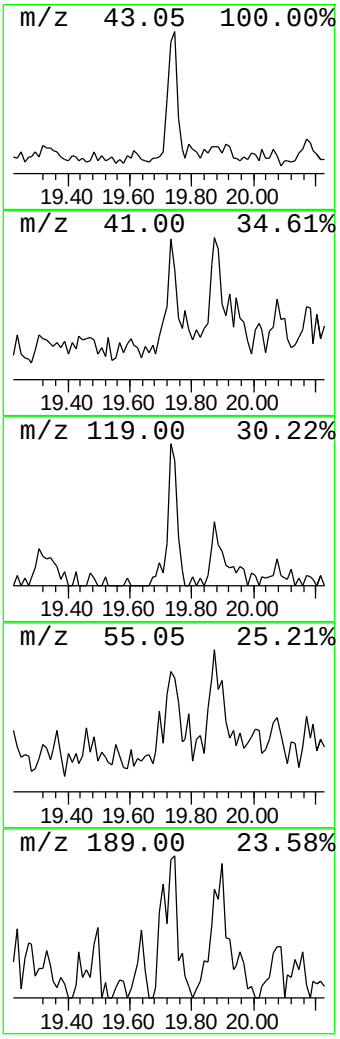
****

Peak Number 3 unknown19.73 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.730	3.81 ng/ul	431128	Chrysene-d12	21.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Isopropylidene-6-methyldeca-3,...	204	C14H20O	1000197-84-7	25
2	Ethanone, 1-(1,2,3,4,7,7a-hexahy...	246	C17H26O	032388-58-2	16
3	(4-Fluorophenoxy)acetic acid, (2...	372	C21H25FN2O3	1000295-56-3	12
4	Decane, 1-(methylsulfinyl)-	204	C11H24OS	003079-28-5	10
5	Acetamide, N-(5,8-dimethoxy-6-qu...	247	C12H13N3O3	056393-30-7	9





Library Search Compound Report

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Sample    : Z4923-01
Misc      :
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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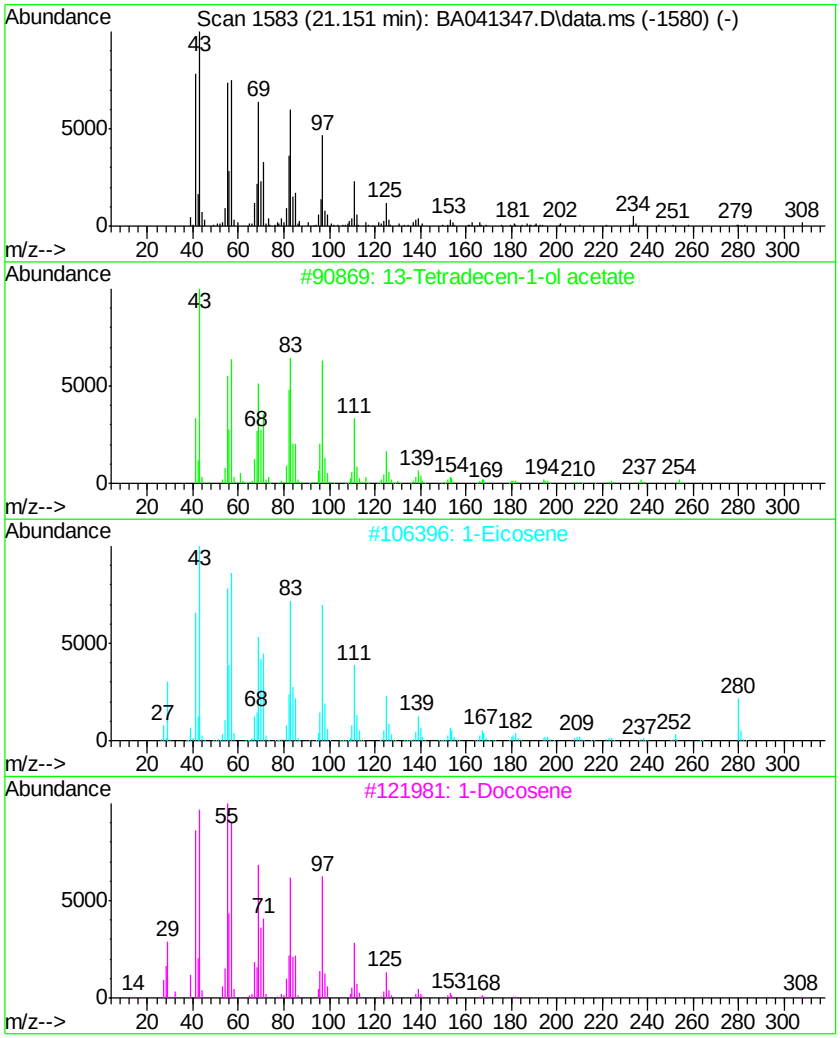
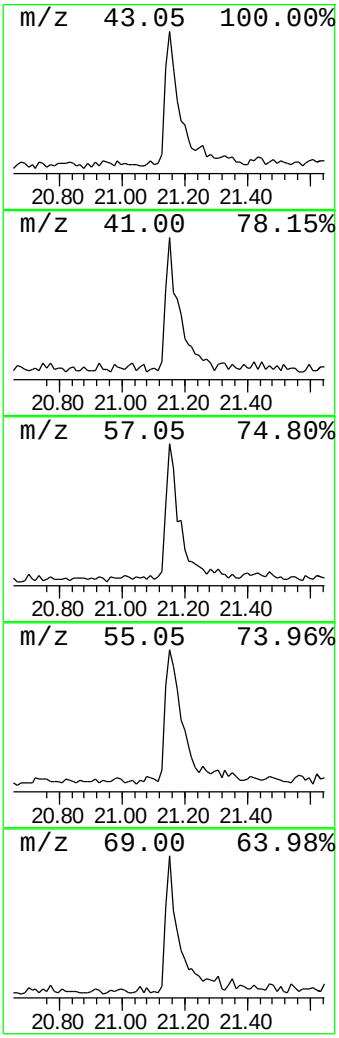
Peak Number 4 13-Tetradecen-1-ol acetate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.150	11.07 ng/ul	1253390	Chrysene-d12	21.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
2	1-Eicosene	280	C20H40	003452-07-1	90
3	1-Docosene	308	C22H44	001599-67-3	90
4	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	87
5	10-Heneicosene (c,t)	294	C21H42	095008-11-0	86





Library Search Compound Report

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Operator : HNP
Sample : Z4923-01
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Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

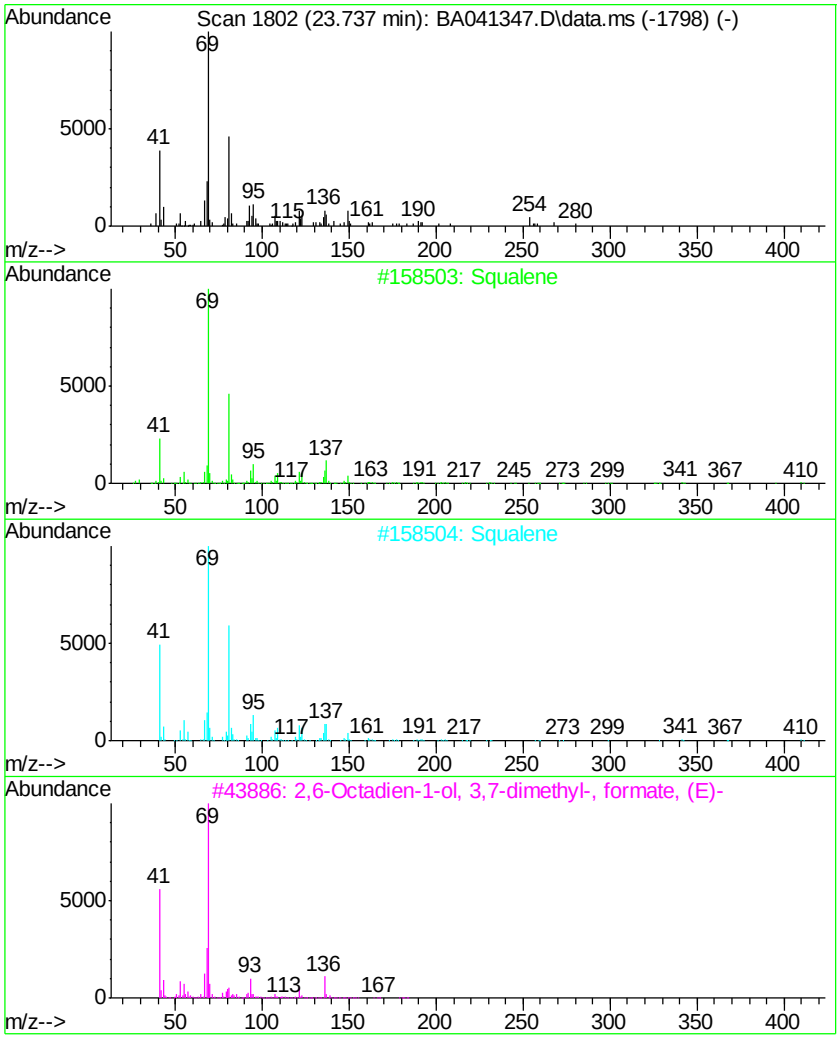
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

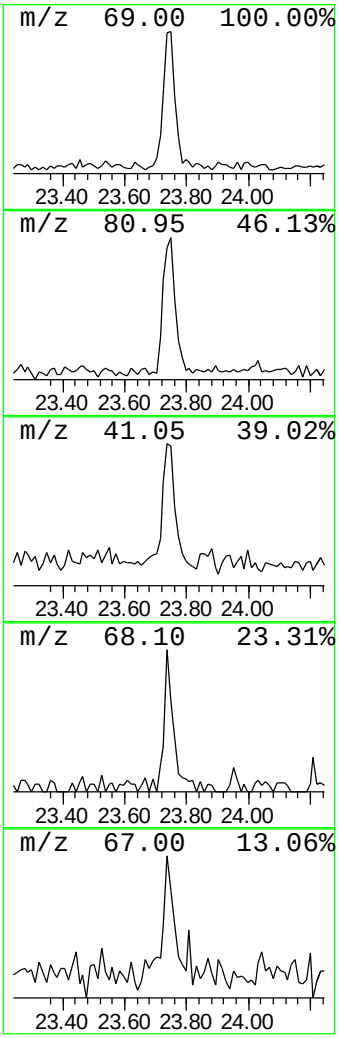
****

Peak Number 5 Squalene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.740	3.86 ng/ul	283702	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	007683-64-9	72
2	Squalene	410	C30H50	007683-64-9	64
3	2,6-Octadien-1-ol, 3,7-dimethyl-...	182	C11H18O2	000105-86-2	59
4	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	58
5	1,6-Octadiene, 3,5-dimethyl-, tr...	138	C10H18	074630-87-8	53





Library Search Compound Report

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Sample : Z4923-01
Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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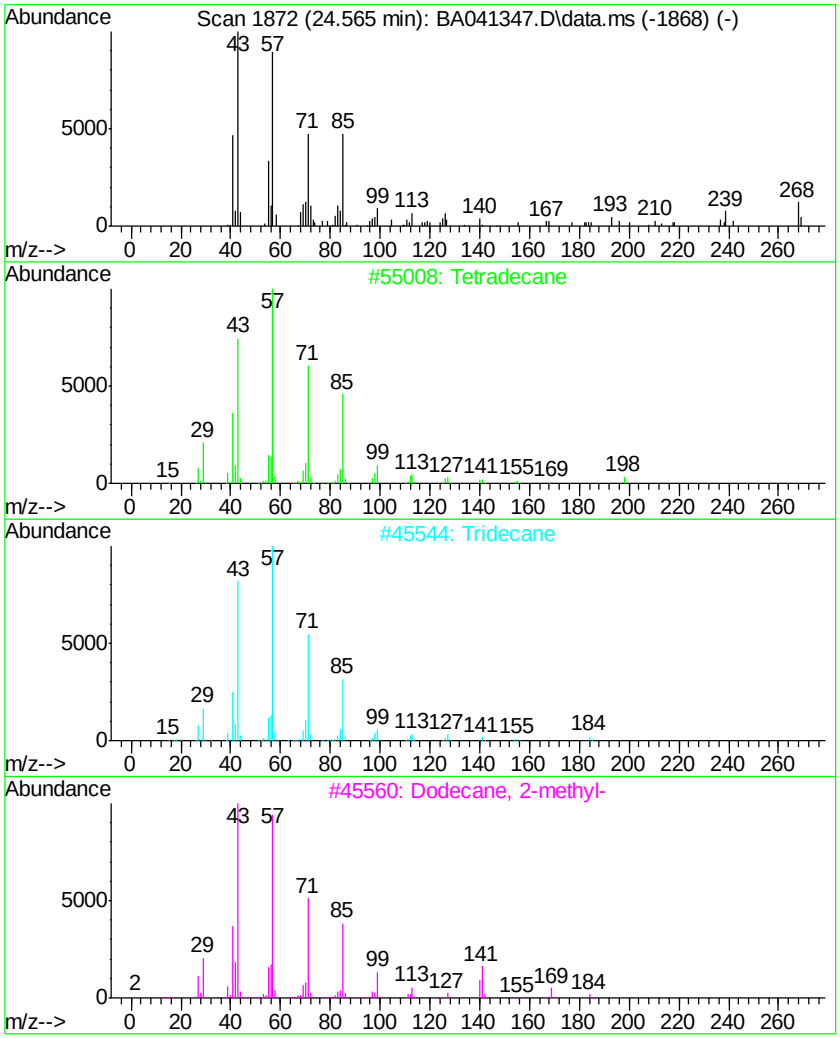
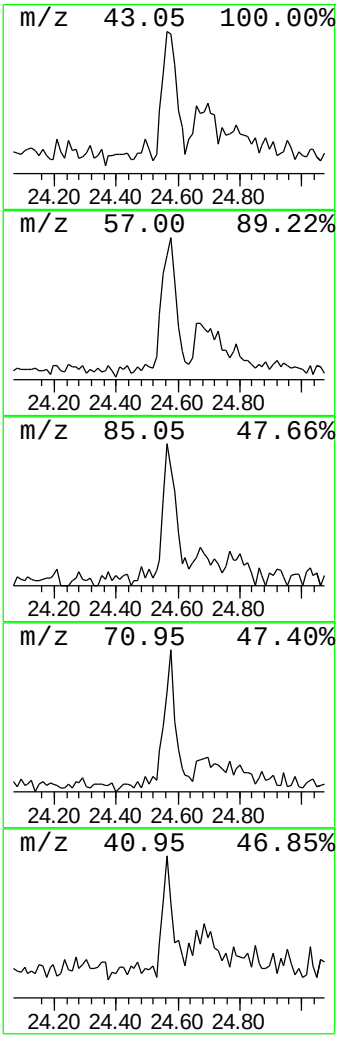
Peak Number 6 Tetradecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.570	3.67 ng/ul	269878	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	64
2	Tridecane	184	C13H28	000629-50-5	60
3	Dodecane, 2-methyl-	184	C13H28	001560-97-0	52
4	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	49
5	Eicosane	282	C20H42	000112-95-8	49





Library Search Compound Report

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Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

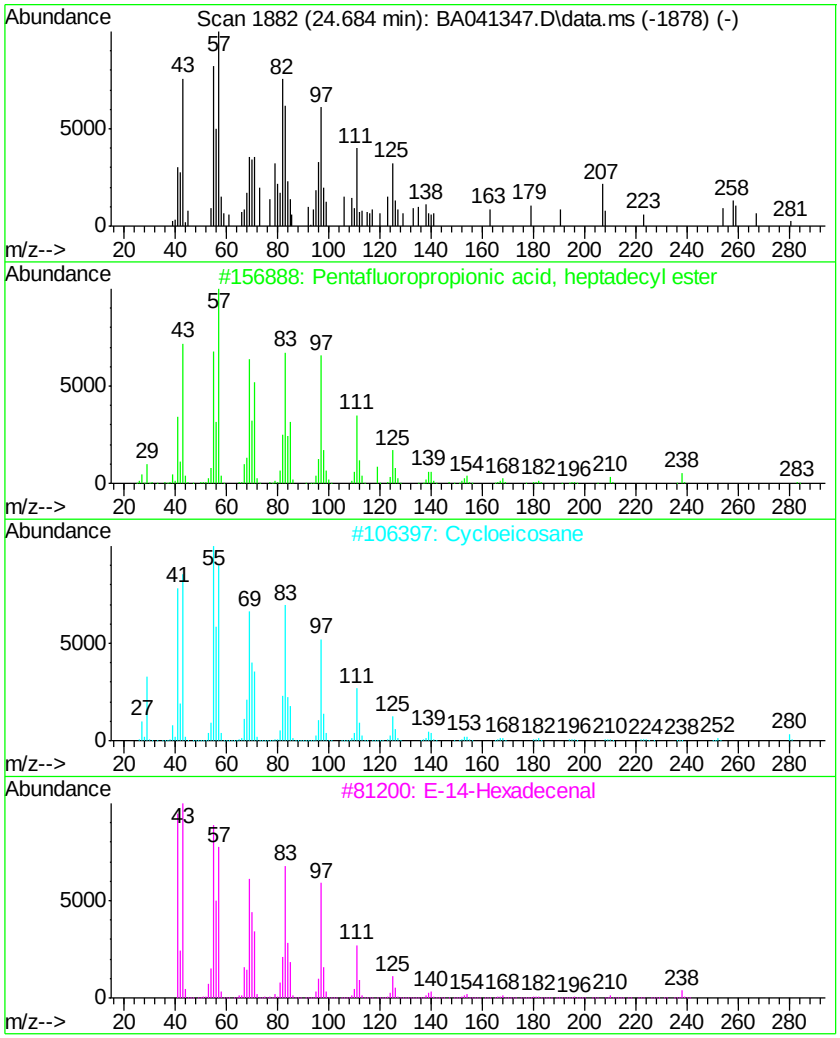
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

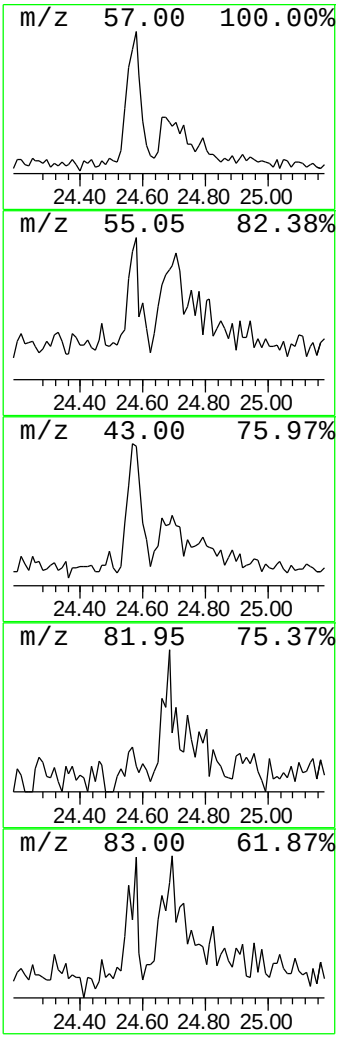
****

Peak Number 7 unknown24.68 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.680	3.07 ng/ul	226049	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	46
2	Cycloeicosane	280	C20H40	000296-56-0	38
3	E-14-Hexadecenal	238	C16H30O	330207-53-9	30
4	1-Hexadecanethiol	258	C16H34S	002917-26-2	30
5	E-15-Heptadecenal	252	C17H32O	1000130-97-9	30





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Sample    : Z4923-01
Misc      :
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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********************************************************************
Peak Number  8  Benzo[j]fluoranthene            Concentration Rank 12

  R.T.      EstConc          Area       Relative to ISTD         R.T.
----------------------------------------------------------------------
 24.830    2.84 ng/ul      209130   Perylene-d12               25.193

 Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
----------------------------------------------------------------------
 1 Benz[e]acephenanthrylene             252 C20H12         000205-99-2 81
 2 Benzo[j]fluoranthene                 252 C20H12         000205-82-3 81
 3 Perylene                             252 C20H12         000198-55-0 64
 4 Benzo[k]fluoranthene                 252 C20H12         000207-08-9 64
 5 Pyrido[2,3-b]quinolin-5(10)-one,... 252 C16H16N2O      309724-82-1 59
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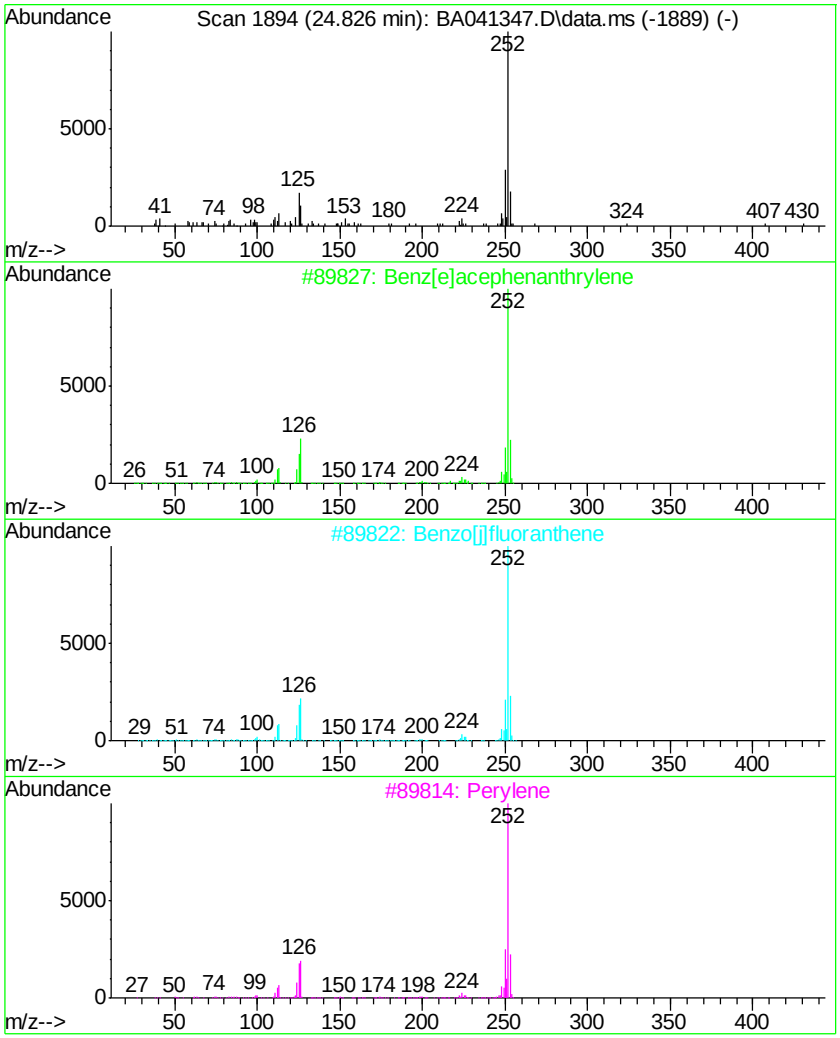

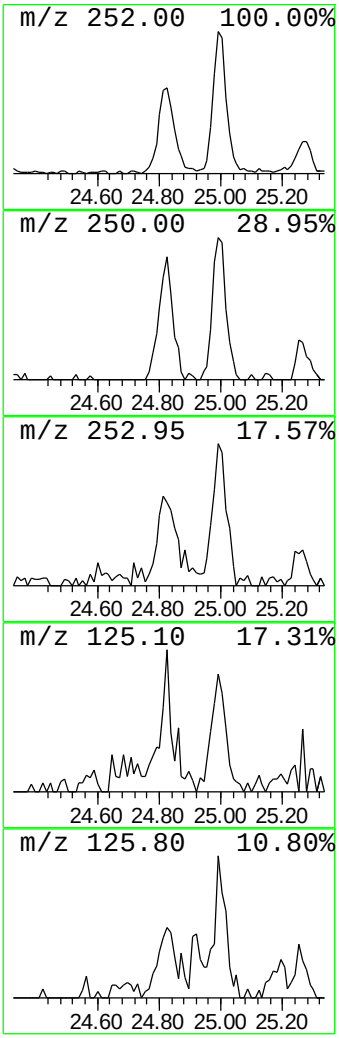

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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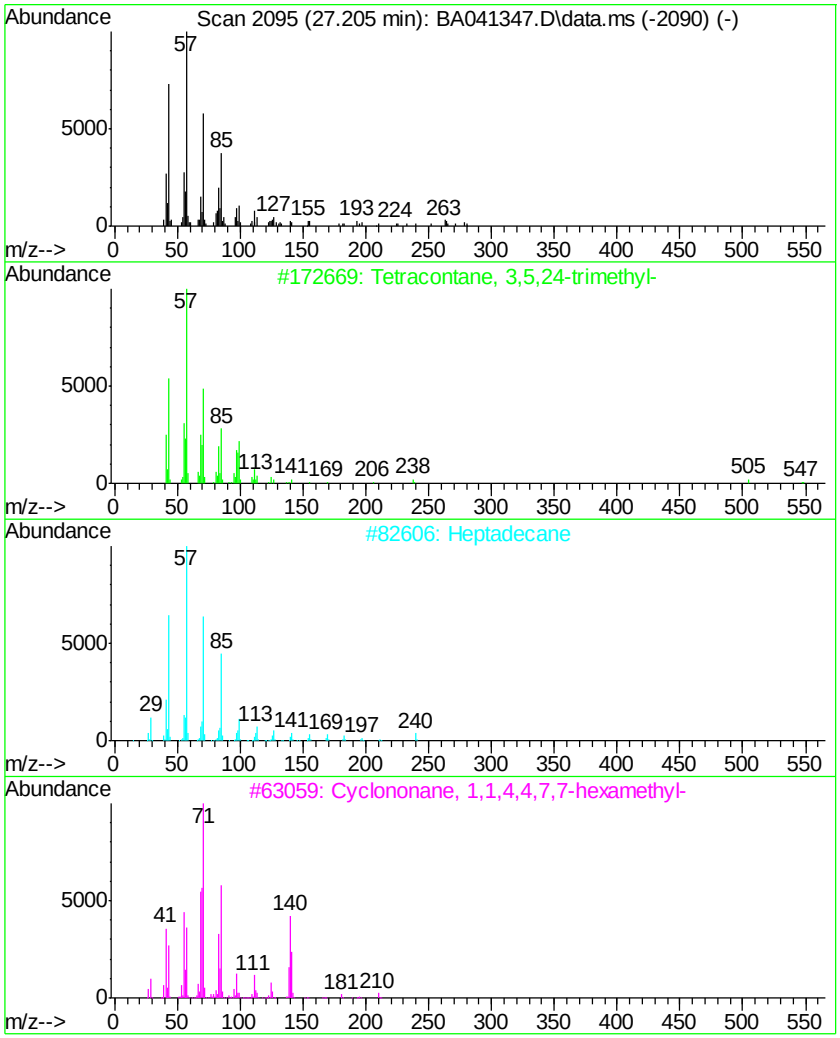
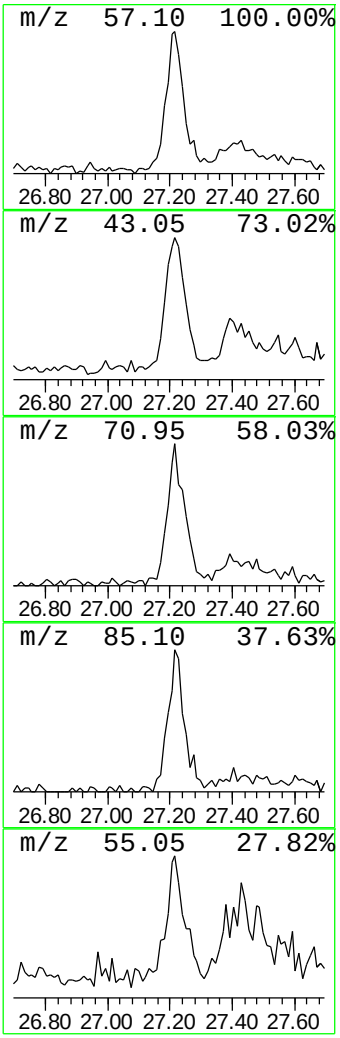
Peak Number 9 Tetracontane, 3,5,24-trimet... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.200	6.23 ng/ul	457910	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracontane, 3,5,24-trimethyl-	605	C43H88	055162-61-3	72
2	Heptadecane	240	C17H36	000629-78-7	70
3	Cyclononane, 1,1,4,4,7,7-hexamet...	210	C15H30	149331-19-1	70
4	10-Methylnonadecane	282	C20H42	056862-62-5	68
5	Eicosane	282	C20H42	000112-95-8	64





Library Search Compound Report

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Data File : BA041347.D
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Sample : Z4923-01
Misc :
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Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

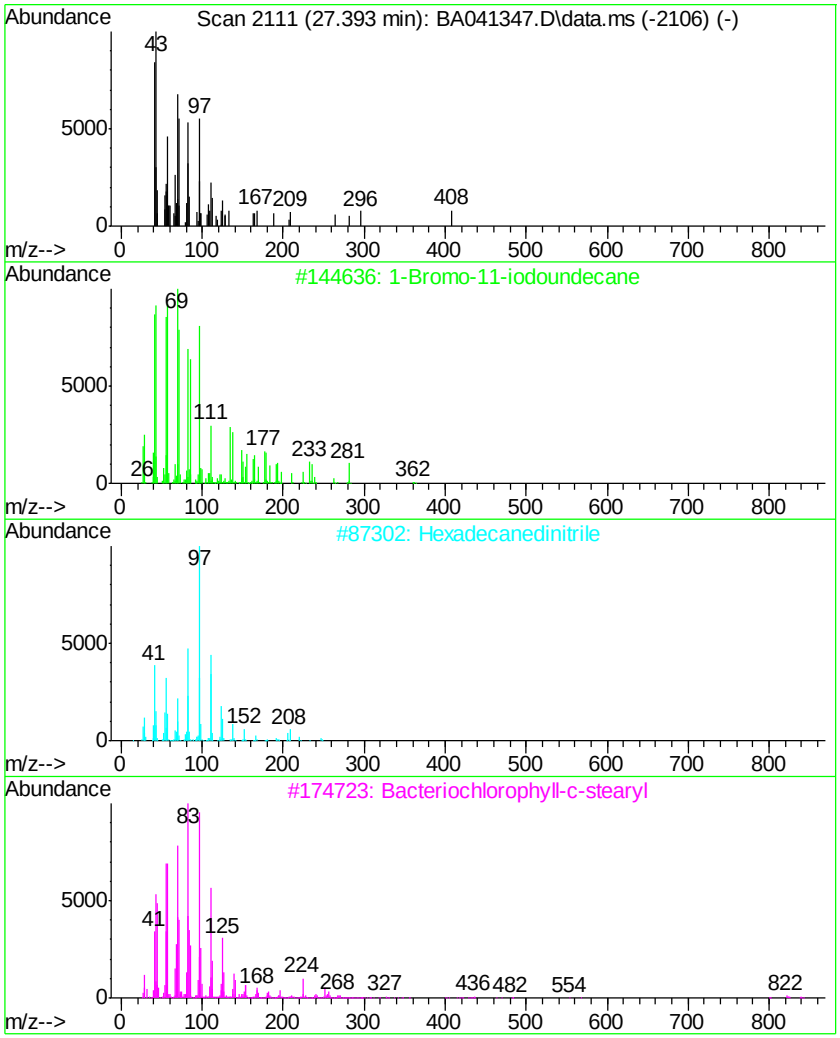
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

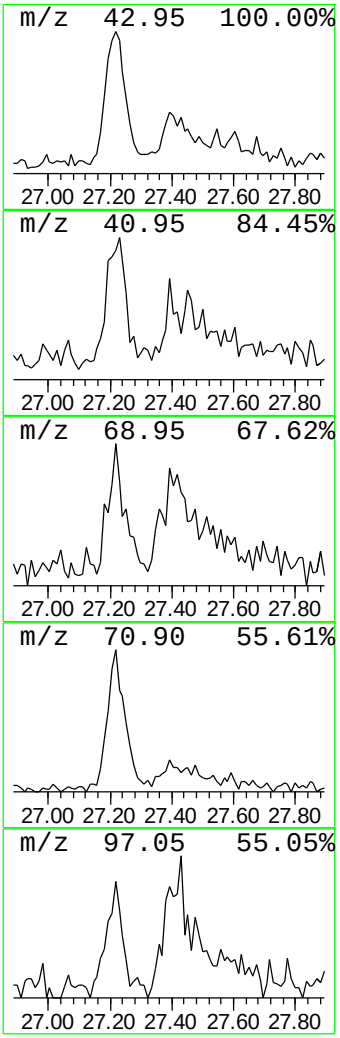
****

Peak Number 10 1-Bromo-11-iodoundecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.390	3.35 ng/ul	246642	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Bromo-11-iodoundecane	360	C11H22BrI	139123-69-6	50
2	Hexadecanedinitrile	248	C16H28N2	006812-44-8	43
3	Bacteriochlorophyll-c-stearyl	841	C52H72MgN4O4	1000164-49-7	35
4	2-Pentene, 5-bromo-2,3-dimethyl-	176	C7H13Br	056312-52-8	35
5	4,4-Dimethylpent-2-enal	112	C7H12O	1000195-01-6	30





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

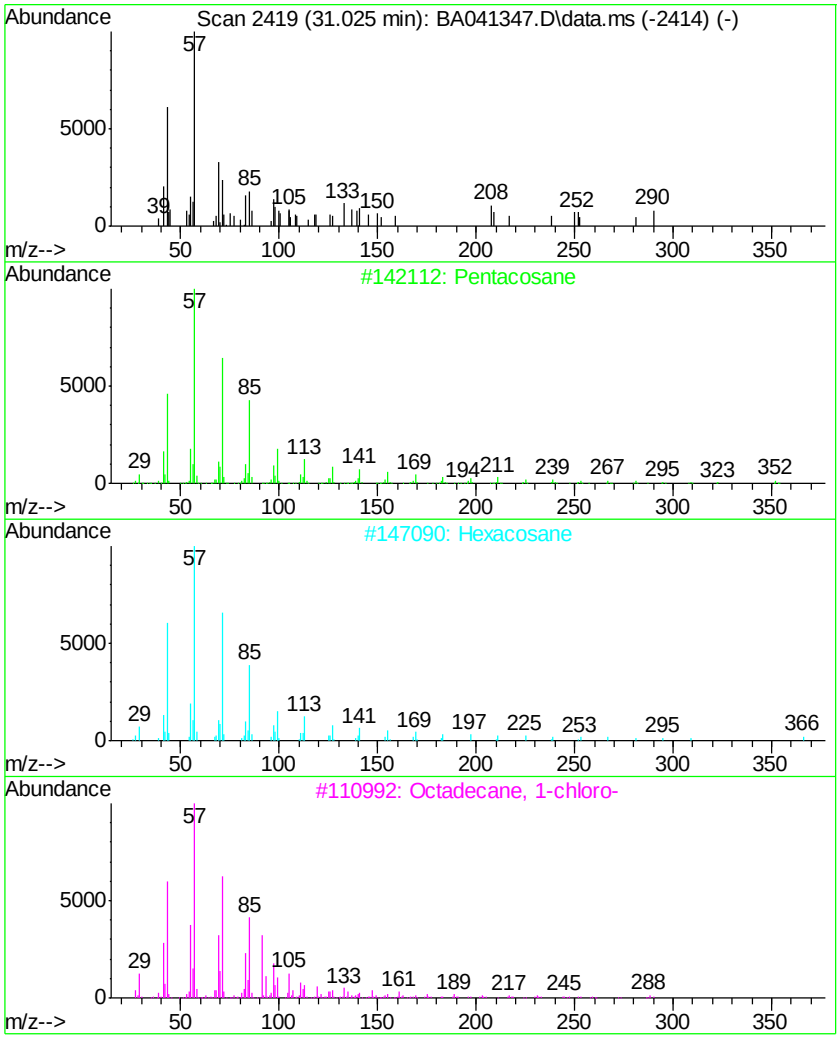
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

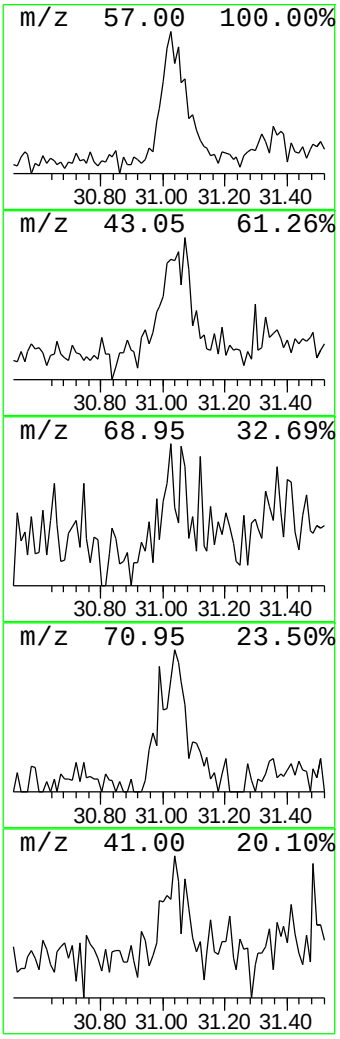
****

Peak Number 11 unknown31.02 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.020	2.11 ng/ul	155302	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacosane	352	C25H52	000629-99-2	12
2	Hexacosane	366	C26H54	000630-01-3	12
3	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	10
4	Dimethyl-trans,trans-.alpha.,.al...	198	C10H14O4	023119-30-4	10
5	Tetratriacontane	479	C34H70	014167-59-0	10





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Misc :
ALS Vial : 21 Sample Multiplier: 1

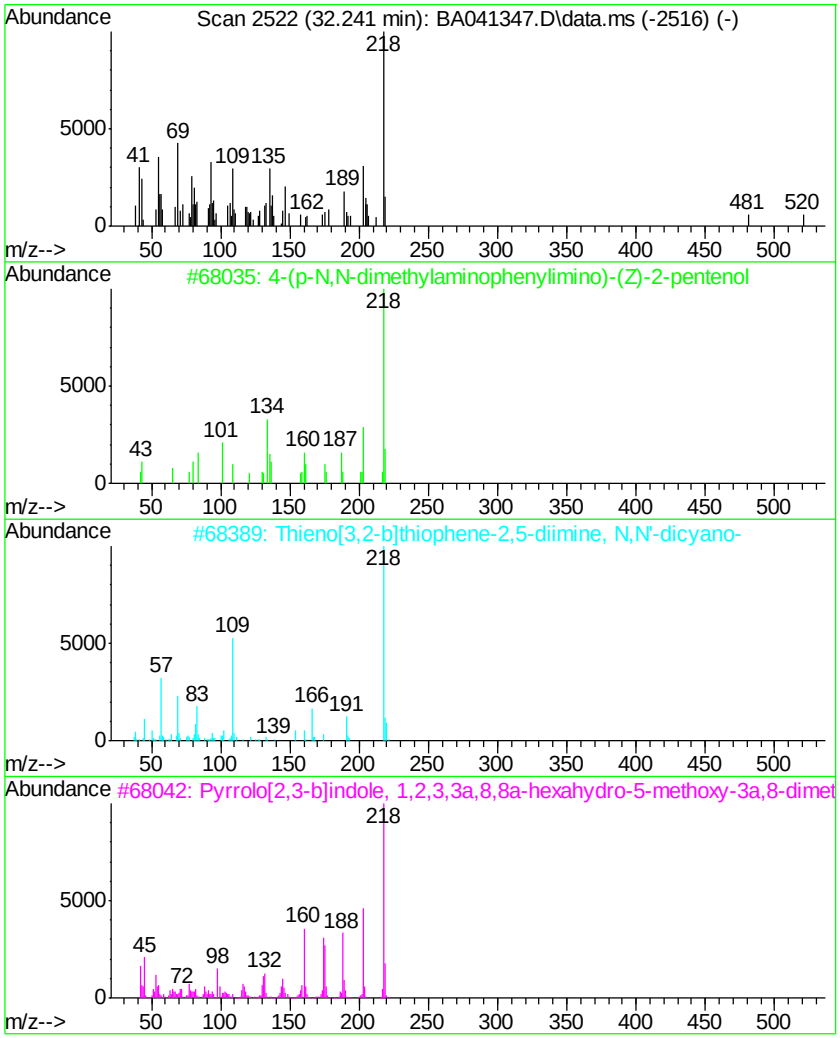
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

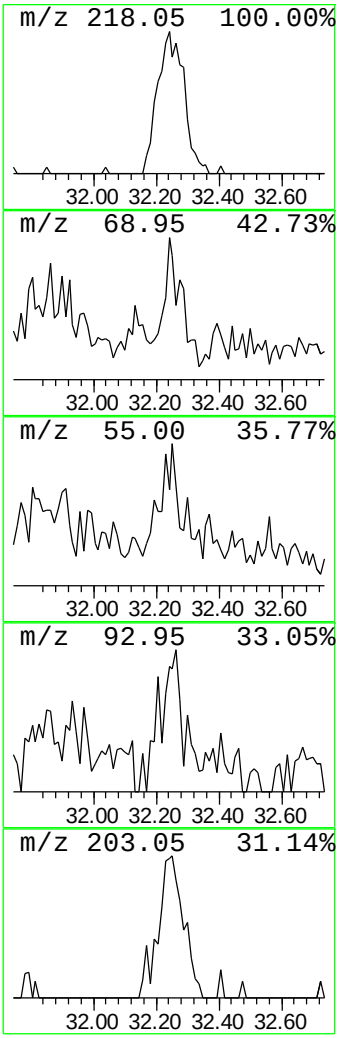
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 4-(p-N,N-dimethylaminopheny... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.240	3.86 ng/ul	283938	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(p-N,N-dimethylaminophenylimin...	218	C13H18N2O	1000100-07-8	50
2	Thieno[3,2-b]thiophene-2,5-diimi...	218	C8H2N4S2	125594-14-1	46
3	Pyrrolo[2,3-b]indole, 1,2,3,3a,8...	218	C13H18N2O	046479-71-4	46
4	3-Methoxy-6,7,8,9-tetrahydro-dib...	218	C13H14O3	1000186-57-9	46
5	5-Methanesulfonyl-3-methoxy-isot...	218	C6H6N2O3S2	157138-41-5	46





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On    : 21 Oct 2008   7:53
Operator  : HNP
Sample    : Z4923-01
Misc      :
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

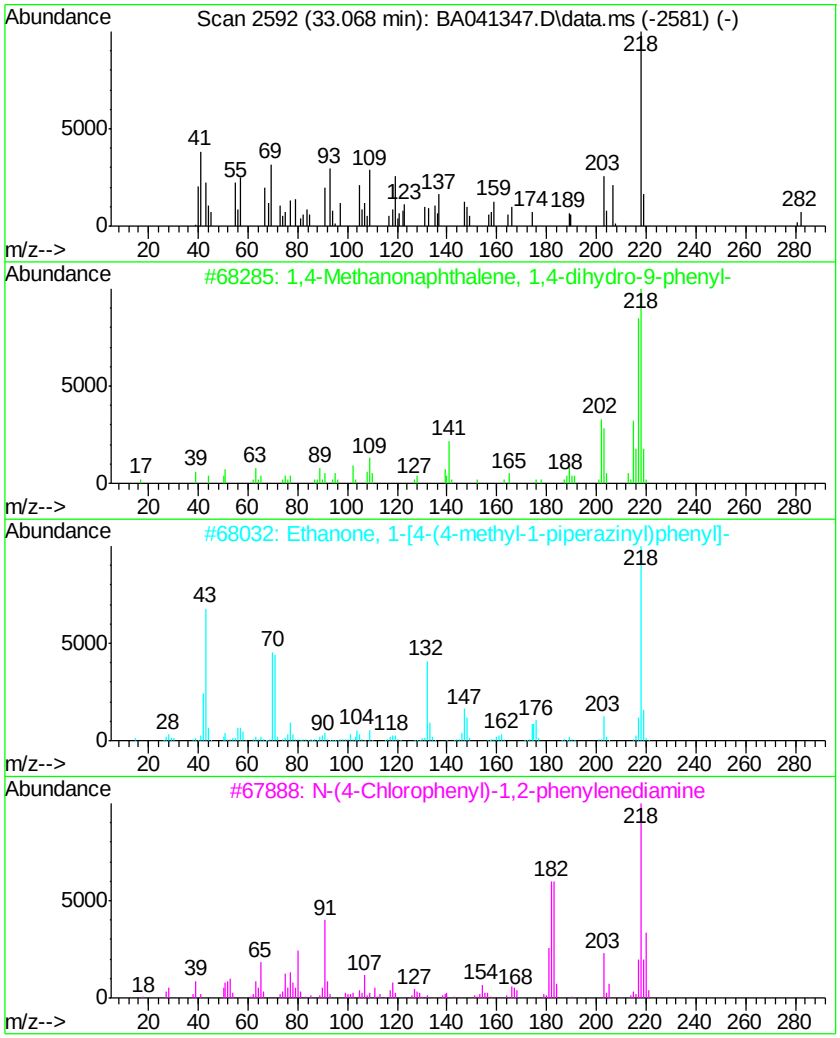
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

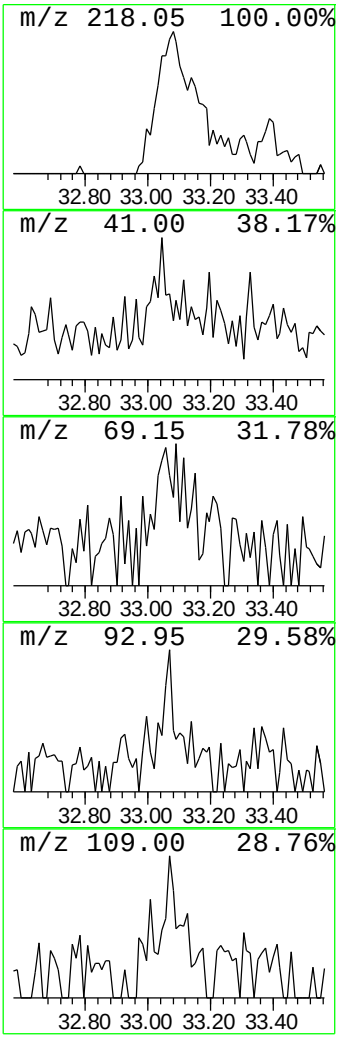
****

Peak Number 13 unknown33.07 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.070	3.25 ng/ul	239172	Perylene-d12	25.193

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Methanonaphthalene, 1,4-dihy...	218	C17H14	055028-73-4	46
2	Ethanone, 1-[4-(4-methyl-1-piper...	218	C13H18N2O	026586-55-0	46
3	N-(4-Chlorophenyl)-1,2-phenylene...	218	C12H11ClN2	068817-71-0	43
4	1,4-Naphthoquinone, 6-ethyl-2,5-...	218	C12H10O4	013378-87-5	43
5	Benzene, 1,3-dichloro-2,4,5,6-te...	218	C6Cl2F4	001198-61-4	38





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041347.D
Acq On : 21 Oct 2008 7:53
Operator : HNP
Sample : Z4923-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown17.05	17.050	3.2	ng/ul	378269	4	15.778	2380060	20.0
unknown18.20	18.200	7.0	ng/ul	837600	4	15.778	2380060	20.0
unknown19.73	19.730	3.8	ng/ul	431128	5	21.340	2265210	20.0
13-Tetradecen-1...	21.150	11.1	ng/ul	1253390	5	21.340	2265210	20.0
Squalene	23.740	3.9	ng/ul	283702	6	25.193	1470810	20.0
Tetradecane	24.570	3.7	ng/ul	269878	6	25.193	1470810	20.0
unknown24.68	24.680	3.1	ng/ul	226049	6	25.193	1470810	20.0
Benzo[j]fluoran...	24.830	2.8	ng/ul	209130	6	25.193	1470810	20.0
Tetracontane, 3...	27.200	6.2	ng/ul	457910	6	25.193	1470810	20.0
1-Bromo-11-iodo...	27.390	3.4	ng/ul	246642	6	25.193	1470810	20.0
unknown31.02	31.020	2.1	ng/ul	155302	6	25.193	1470810	20.0
4-(p-N,N-dimeth...	32.240	3.9	ng/ul	283938	6	25.193	1470810	20.0
unknown33.07	33.070	3.3	ng/ul	239172	6	25.193	1470810	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-1B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-02

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041342.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.68 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	220	U
108-95-2	Phenol	220	U
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	220	U
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	43	J
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	220	U
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	U
78-59-1	Isophorone	220	U
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	220	U
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	220	U
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	220	U
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	220	U
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC4-1B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-02

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041342.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.68 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	220	U
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	220	U
120-12-7	Anthracene	220	U
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	220	U
129-00-0	Pyrene	220	U
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	220	U
218-01-9	Chrysene	220	U
117-81-7	Bis(2-ethylhexyl)phthalate	220	U
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
50-32-8	Benzo(a)pyrene	220	U
193-39-5	Indeno(1,2,3-cd)pyrene	220	U
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC4-1B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-02

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041342.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.68 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

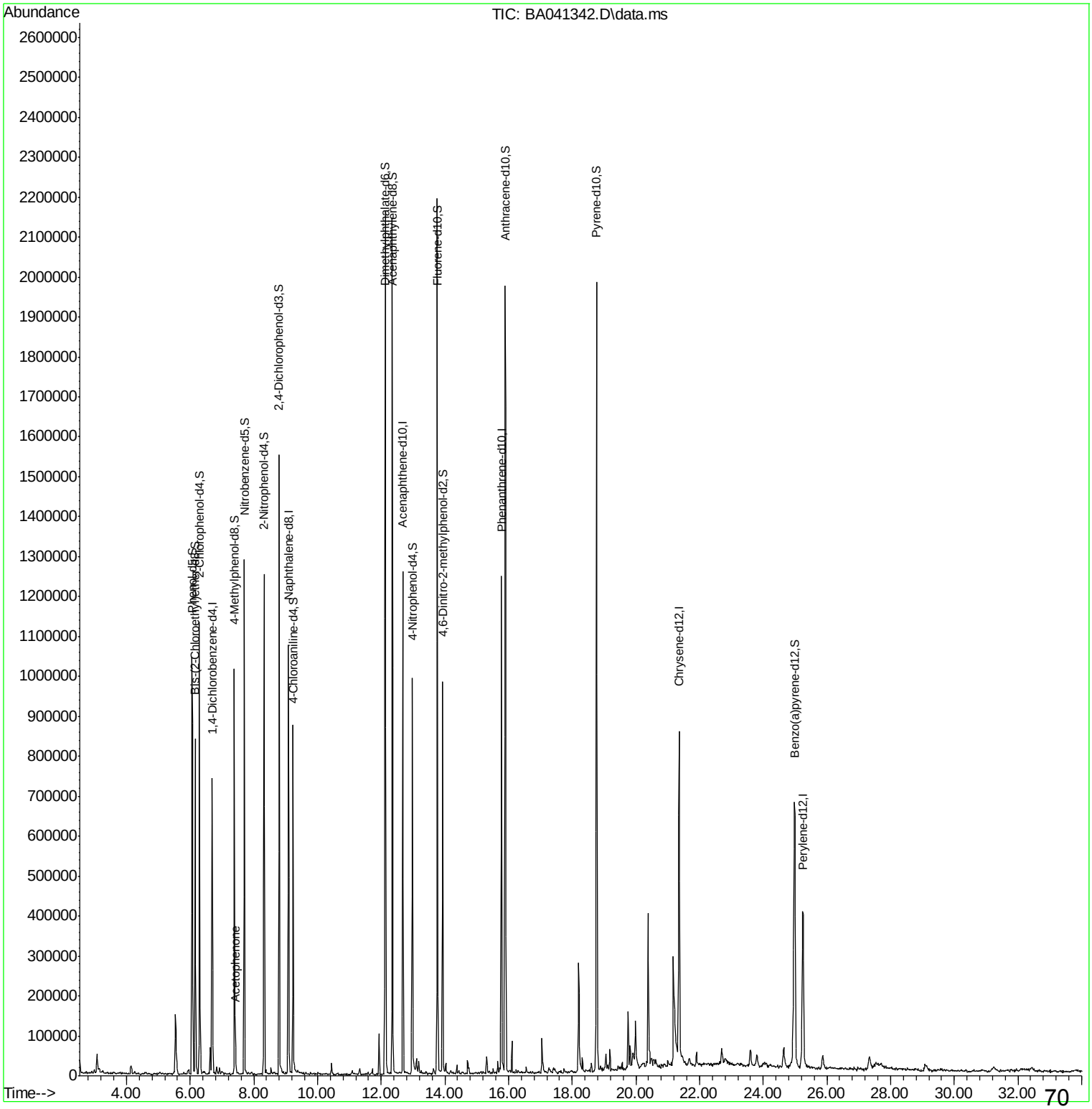
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	2437-95-8	Bicyclo[3.1.1]hept-2-ene, 2,6,6	5.54	220	JN
02.		unknown18.20	18.20	210	J
03.	72-54-8	1,1-Dichloro-2,2-bis(p-chloroph	19.76	140	JN
04.	297758-19-1	Acridin-9-amine, 1,2,3,4-tetrah	19.99	130	JN
05.	1000158-20-4	3-Butanone, 1,1-bis(4-chlorophe	20.39	360	JN
06.	506-52-5	1-Hexacosanol	21.18	510	JN
07.	629-62-9	Pentadecane	24.64	120	JN
08.	54461-00-6	1-Hexanol, 2-ethyl-2-propyl-	27.33	91	JN
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

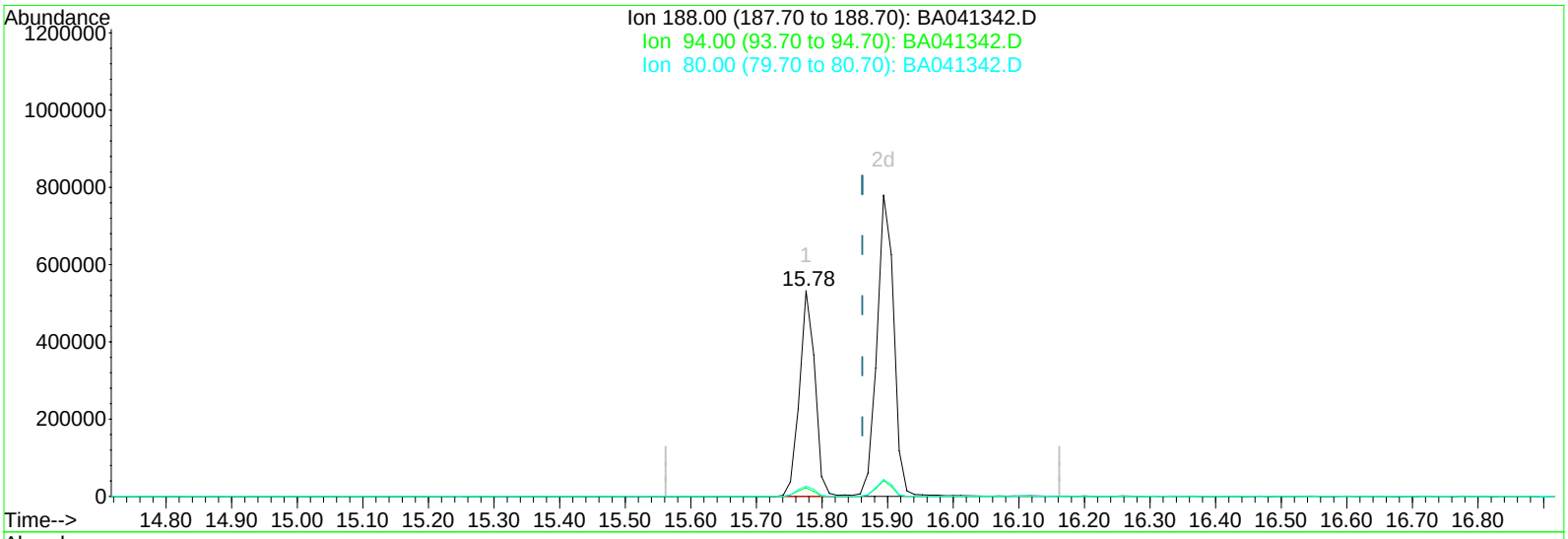
Quant Time: Oct 21 05:11:13 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

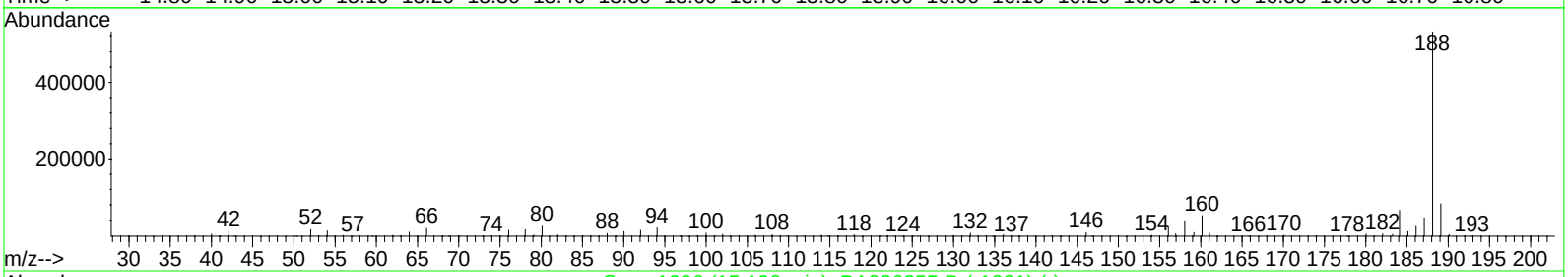


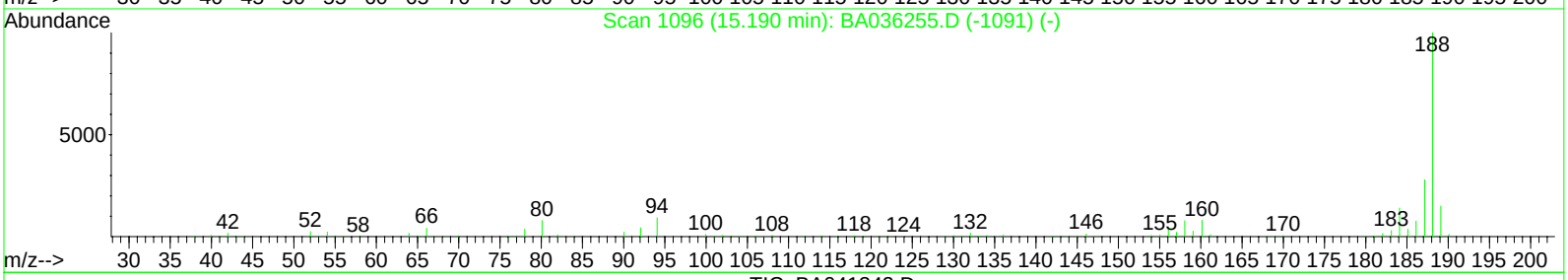
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 05:06:36 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041342.D

(68) Anthracene-d10 (S)

15.776min (-0.086) 20.89ng/ul

response 871814

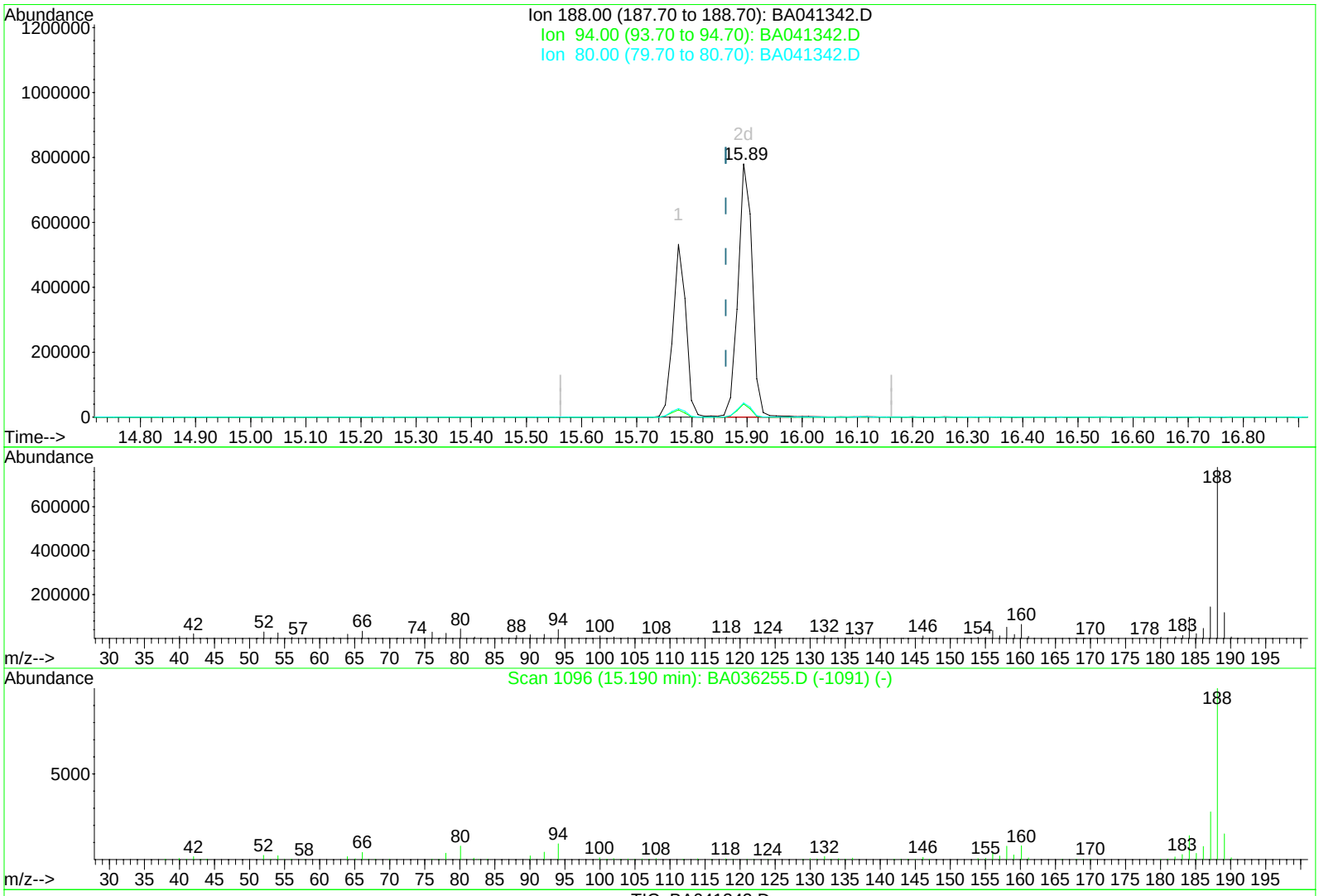
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.21
80.00	4.20	5.01
0.00	0.00	0.00

71

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 05:06:36 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041342.D

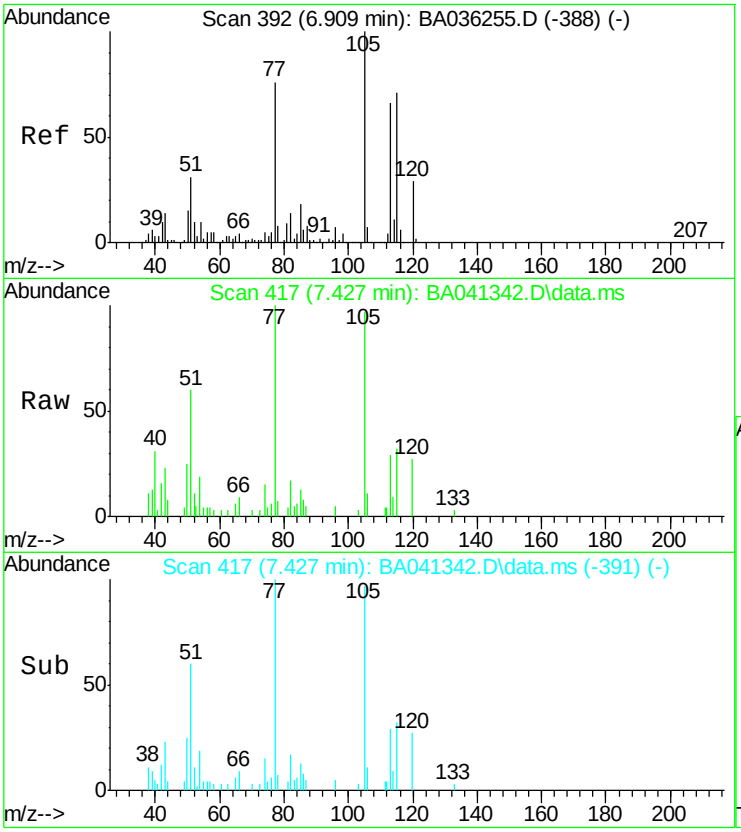
(68) Anthracene-d10 (S)

15.894min (+0.032) 33.26ng/ul m

response 1387968

Ion	Exp%	Act%
188.00	100	100
94.00	4.00	5.25#
80.00	4.20	5.60#
0.00	0.00	0.00

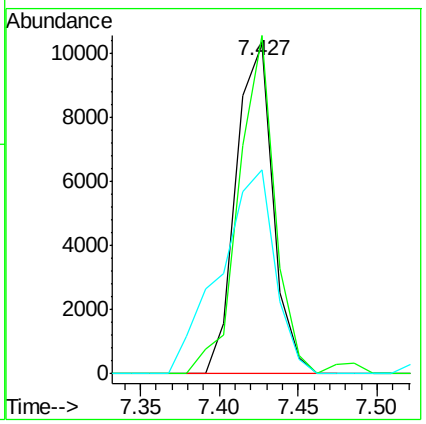
72



#12
Acetophenone
Concen: 1.01 ng/ul
RT: 7.427 min Scan# 417
Delta R.T. 0.004 min
Lab File: BA041342.D
Acq: 21 Oct 2008 4:27

Tgt Ion:105 Resp: 16671

Ion	Ratio	Lower	Upper
105	100		
77	102.8	69.4	104.2
51	62.1	42.1	63.1



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 05:11:13 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.696	152	204866	20.00	ng/ul	0.01
16) Naphthalene-d8	9.086	136	690447	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.682	164	456218	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.776	188	871814	20.00	ng/ul	0.02
73) Chrysene-d12	21.356	240	630100	20.00	ng/ul	0.07
81) Perylene-d12	25.255	264	517862	20.00	ng/ul	0.18
System Monitoring Compounds						
3) Phenol-d5	6.060	99	455865	36.75	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.166	67	317276	37.73	ng/ul	0.01
7) 2-Chlorophenol-d4	6.296	132	402761	38.21	ng/ul	0.00
11) 4-Methylphenol-d8	7.391	113	245711	29.20	ng/ul	0.00
17) Nitrobenzene-d5	7.698	128	223923	36.63	ng/ul	0.00
20) 2-Nitrophenol-d4	8.321	143	259274	34.46	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.792	165	432136	31.03	ng/ul	0.00
27) 4-Chloroaniline-d4	9.239	131	380657	27.64	ng/ul	0.02
41) Dimethylphthalate-d6	12.130	166	1285377	42.30	ng/ul	0.01
44) Acenaphthylene-d8	12.352	160	1421701	38.49	ng/ul	0.01
49) 4-Nitrophenol-d4	12.989	143	258000	41.66	ng/ul	0.03
55) Fluorene-d10	13.765	176	1006159	41.18	ng/ul	0.02
60) 4,6-Dinitro-2-methylph...	13.929	200	218213	24.19	ng/ul	0.01
68) Anthracene-d10	15.894	188	1387968m	33.26	ng/ul	0.03
74) Pyrene-d10	18.769	212	1474564	53.56	ng/ul	0.05
85) Benzo(a)pyrene-d12	24.984	264	904190	32.06	ng/ul	0.17
Target Compounds						Qvalue
12) Acetophenone	7.427	105	16671	1.01	ng/ul	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041342.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.908	30	33	36	rVB3	6692	13718	0.35%	0.026%
2	2.991	36	40	42	rBV3	11181	26087	0.67%	0.049%
3	3.073	44	47	51	rBV	45877	96572	2.49%	0.180%
4	4.145	135	138	143	rVB3	21267	68035	1.76%	0.127%
5	4.251	143	147	151	rBV3	6901	18493	0.48%	0.035%
6	5.496	248	253	254	rBV	7744	18487	0.48%	0.034%
7	5.544	254	257	264	rVB	149149	331127	8.55%	0.618%
8	5.932	287	290	291	rBV2	10873	20948	0.54%	0.039%
9	6.060	298	301	307	rBV	1042148	1873622	48.39%	3.496%
10	6.166	307	310	316	rVB	838904	1270605	32.81%	2.371%
11	6.296	318	321	327	rBV	1130138	1833310	47.35%	3.421%
12	6.448	333	334	342	rVB3	8952	16920	0.44%	0.032%
13	6.637	347	350	352	rBV	67055	112939	2.92%	0.211%
14	6.696	352	355	359	rVV	739353	1302759	33.64%	2.431%
15	6.838	362	367	369	rBV2	20067	35815	0.92%	0.067%
16	6.920	371	374	377	rBV4	16574	32153	0.83%	0.060%
17	7.002	377	381	387	rVB3	8894	35683	0.92%	0.067%
18	7.391	411	414	422	rBV	1014663	1640749	42.37%	3.062%
19	7.698	437	440	443	rBV	1286559	1899501	49.05%	3.544%
20	7.920	456	459	464	rVB3	7147	18567	0.48%	0.035%
21	8.132	472	477	479	rBV	4209	12816	0.33%	0.024%
22	8.321	490	493	496	rVV	1251719	1774791	45.83%	3.312%
23	8.380	496	498	506	rVB3	11666	24143	0.62%	0.045%
24	8.545	508	512	514	rBV4	16895	25253	0.65%	0.047%
25	8.792	530	533	536	rBV	1551046	2239367	57.83%	4.179%
26	9.086	555	558	561	rBV	1069904	1493302	38.56%	2.786%
27	9.228	567	570	581	rBV	871733	1492782	38.55%	2.785%
28	10.440	669	673	675	rVV2	29722	46616	1.20%	0.087%
29	11.086	723	728	732	rBV2	10324	30370	0.78%	0.057%
30	11.321	743	748	752	rVB3	15616	31971	0.83%	0.060%
31	11.721	780	782	788	rVB2	16662	31170	0.80%	0.058%
32	11.931	797	800	803	rVB	103303	152998	3.95%	0.285%
33	12.130	813	817	820	rBV	2159106	3135176	80.97%	5.850%
34	12.352	832	836	839	rBV	2144451	3164132	81.71%	5.904%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.682	860	864	867	rVV	1256160	1928766	49.81%	3.599%
36	12.977	885	889	897	rBV	989795	1972908	50.95%	3.681%
37	13.107	897	900	903	rVV3	36624	73253	1.89%	0.137%
38	13.178	903	906	910	rVV	30668	60410	1.56%	0.113%
39	13.249	910	912	914	rVV	8418	13445	0.35%	0.025%
40	13.648	943	946	948	rVV2	14470	27236	0.70%	0.051%
41	13.765	952	956	960	rVV	2192949	3608955	93.20%	6.734%
42	13.835	960	962	965	rVV4	9225	27392	0.71%	0.051%
43	13.929	966	970	973	rVV	982895	1541872	39.82%	2.877%
44	14.035	976	979	983	rVV	26317	49605	1.28%	0.093%
45	14.199	988	993	994	rBV4	9375	21035	0.54%	0.039%
46	14.376	1005	1008	1011	rBV2	24168	43666	1.13%	0.081%
47	14.435	1011	1013	1016	rVB2	10229	17768	0.46%	0.033%
48	14.528	1018	1021	1022	rBV2	6505	12832	0.33%	0.024%
49	14.716	1035	1037	1043	rBV2	34364	84388	2.18%	0.157%
50	15.316	1085	1088	1092	rBV3	43833	85876	2.22%	0.160%
51	15.399	1092	1095	1098	rVB2	7494	19878	0.51%	0.037%
52	15.517	1101	1105	1107	rBV	13182	23568	0.61%	0.044%
53	15.658	1114	1117	1119	rBV2	31995	49518	1.28%	0.092%
54	15.717	1119	1122	1124	rBV2	12750	26521	0.68%	0.049%
55	15.776	1124	1127	1133	rVB	1238650	2029305	52.41%	3.787%
56	15.894	1133	1137	1141	rBV	1966087	3554371	91.79%	6.632%
57	16.106	1153	1155	1158	rVB2	78511	111879	2.89%	0.209%
58	16.246	1164	1167	1169	rBV3	8952	17629	0.46%	0.033%
59	16.293	1169	1171	1176	rVB3	8808	22610	0.58%	0.042%
60	16.552	1191	1193	1195	rBV2	15981	26150	0.68%	0.049%
61	17.046	1233	1235	1242	rBV2	86350	191805	4.95%	0.358%
62	17.269	1250	1254	1256	rBV3	12061	26717	0.69%	0.050%
63	17.411	1263	1266	1268	rBV3	12028	25533	0.66%	0.048%
64	17.742	1292	1294	1297	rBV3	8911	14019	0.36%	0.026%
65	18.202	1330	1333	1337	rVV2	271250	501878	12.96%	0.936%
66	18.320	1341	1343	1350	rVB	36492	68918	1.78%	0.129%
67	18.604	1364	1367	1371	rVB	23978	49964	1.29%	0.093%
68	18.769	1376	1381	1387	rVV	1977189	3872217	100.00%	7.225%
69	18.899	1389	1392	1395	rVV5	14334	35373	0.91%	0.066%
70	19.006	1399	1401	1402	rVV2	8313	13734	0.35%	0.026%
71	19.053	1403	1405	1408	rVV3	43311	81056	2.09%	0.151%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	19.112	1408	1410	1413	rVV4	14291	26612	0.69%	0.050%
73	19.183	1413	1416	1419	rVB2	54842	85190	2.20%	0.159%
74	19.242	1419	1421	1424	rBV4	5340	13943	0.36%	0.026%
75	19.443	1435	1438	1440	rBV4	11005	22711	0.59%	0.042%
76	19.574	1446	1449	1450	rVB3	17499	21308	0.55%	0.040%
77	19.715	1457	1461	1462	rBV3	10133	19327	0.50%	0.036%
78	19.763	1462	1465	1467	rVV	143792	258253	6.67%	0.482%
79	19.822	1467	1470	1472	rVV2	56967	100375	2.59%	0.187%
80	19.904	1474	1477	1481	rVV5	33336	121199	3.13%	0.226%
81	19.987	1481	1484	1489	rVB	110753	250448	6.47%	0.467%
82	20.387	1515	1518	1524	rVB	376245	680114	17.56%	1.269%
83	20.481	1524	1526	1529	rVB3	18733	39627	1.02%	0.074%
84	20.552	1529	1532	1535	rBV5	16990	53436	1.38%	0.100%
85	20.623	1536	1538	1539	rVB2	13116	13607	0.35%	0.025%
86	20.872	1558	1559	1562	rBV3	7874	18520	0.48%	0.035%
87	21.002	1568	1570	1573	rBV4	16970	31942	0.82%	0.060%
88	21.178	1582	1585	1595	rBV	267495	978443	25.27%	1.826%
89	21.356	1596	1600	1607	rVB	817762	1630408	42.11%	3.042%
90	21.901	1643	1646	1651	rBV2	34159	79720	2.06%	0.149%
91	22.693	1710	1713	1717	rBV3	36557	88250	2.28%	0.165%
92	23.601	1785	1790	1794	rBV4	39002	110110	2.84%	0.205%
93	23.802	1804	1807	1811	rVB3	25506	64533	1.67%	0.120%
94	24.642	1873	1878	1887	rBV4	51667	200270	5.17%	0.374%
95	24.984	1900	1907	1916	rVB	660345	2363502	61.04%	4.410%
96	25.243	1922	1929	1936	rBV	391911	1370763	35.40%	2.558%
97	25.857	1977	1981	1990	rVB5	32628	118959	3.07%	0.222%
98	27.329	2101	2106	2113	rVV6	31763	146658	3.79%	0.274%
99	28.780	2227	2229	2232	rBV2	5109	13417	0.35%	0.025%
100	29.074	2252	2254	2255	rVV2	12076	16826	0.43%	0.031%

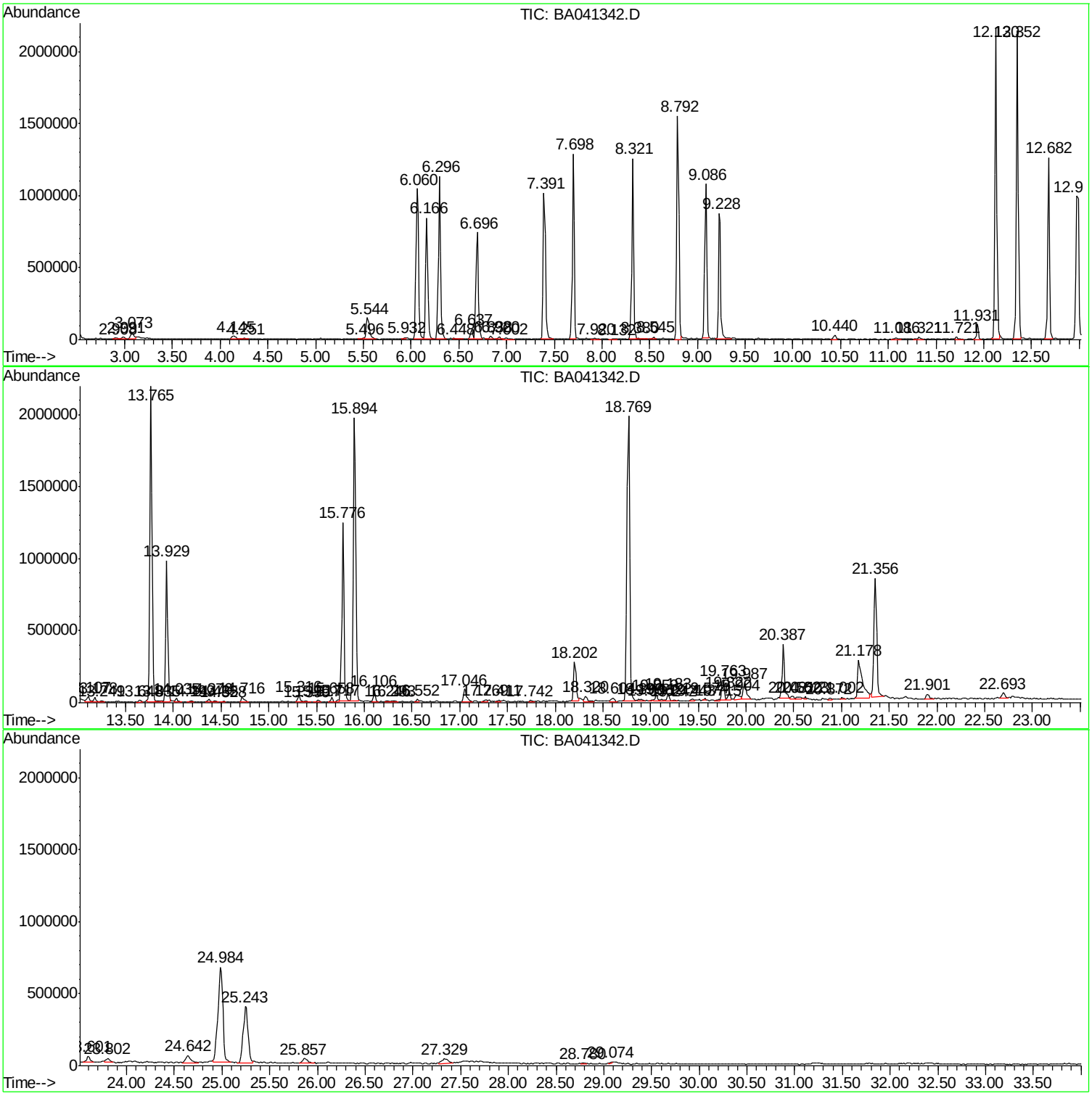
Sum of corrected areas: 53591498

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On    : 21 Oct 2008   4:27
Operator  : HNP
Sample    : Z4923-02
Misc      :
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

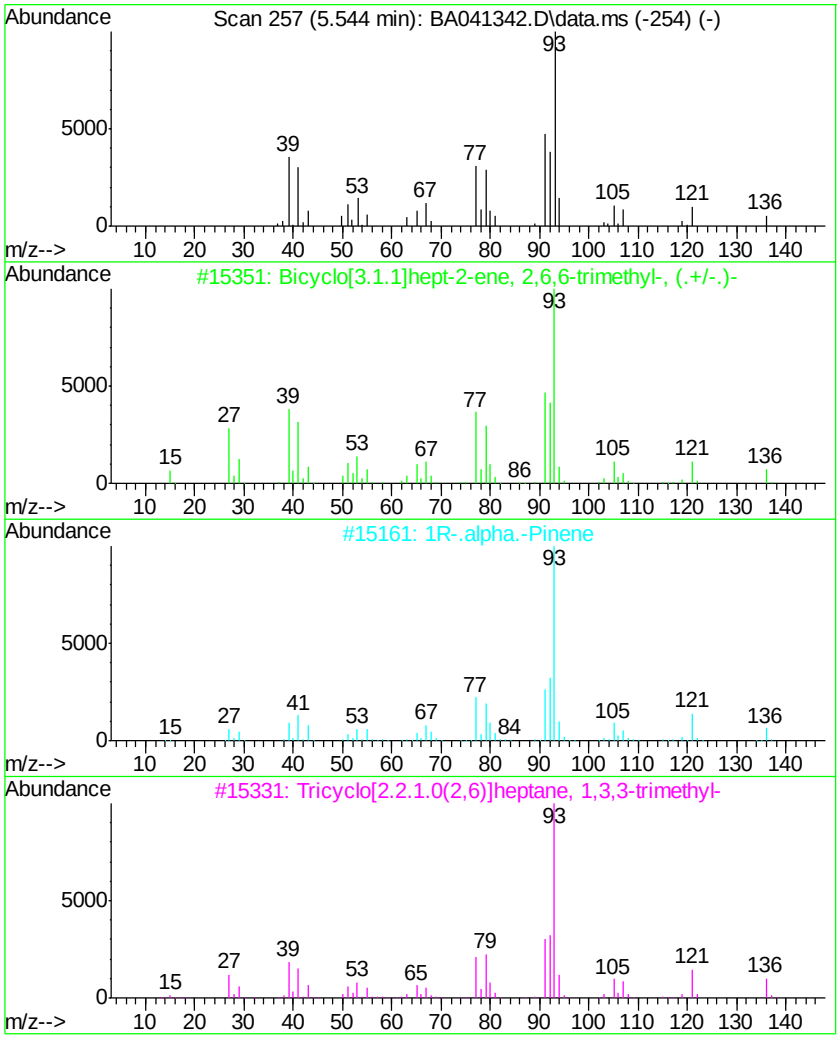
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

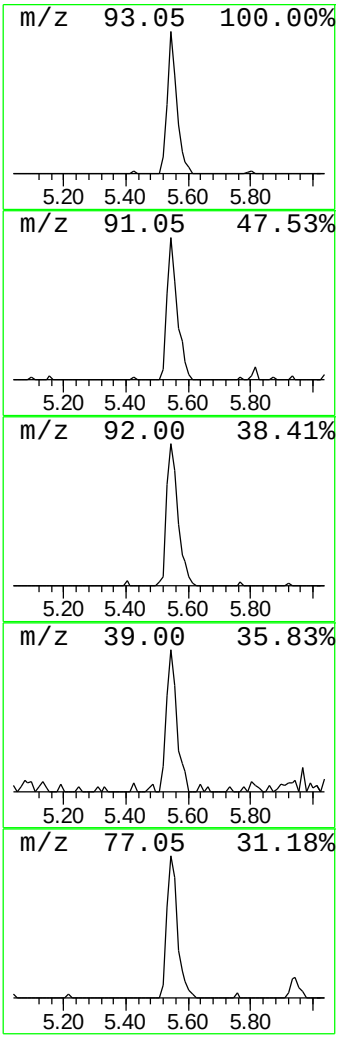
****

Peak Number 1 Bicyclo[3.1.1]hept-2-ene, 2... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.540	5.08 ng/ul	331127	1,4-Dichlorobenzene-d4	6.696

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.1.1]hept-2-ene, 2,6,6-...	136	C10H16	002437-95-8	97
2	1R-.alpha.-Pinene	136	C10H16	007785-70-8	90
3	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000488-97-1	86
4	.alpha.-Pinene	136	C10H16	000080-56-8	81
5	3-Carene	136	C10H16	013466-78-9	80





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

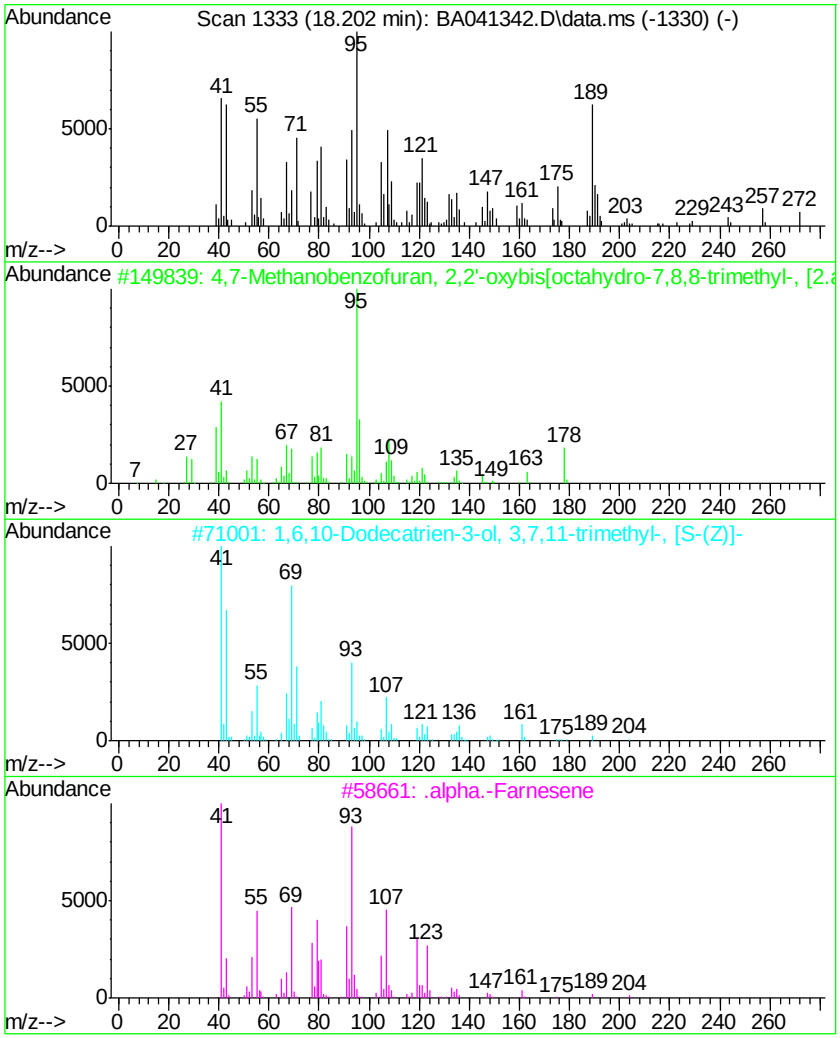
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

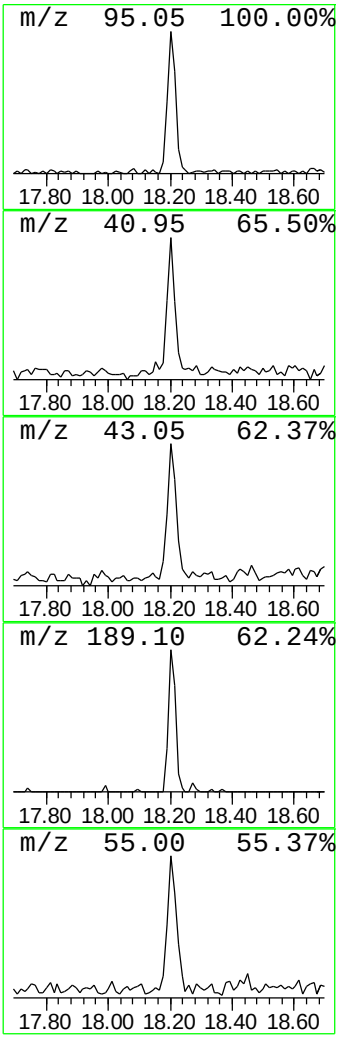
****

Peak Number 2 unknown18.20 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.200	4.95 ng/ul	501878	Phenanthrene-d10	15.775

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,7-Methanobenzofuran, 2,2'-oxyb...	374	C24H38O3	081955-10-4	14
2	1,6,10-Dodecatrien-3-ol, 3,7,11-...	222	C15H26O	000142-50-7	12
3	.alpha.-Farnesene	204	C15H24	000502-61-4	11
4	4-(Bromomethyl)cyclohexene	174	C7H11Br	034960-41-3	11
5	Benzeneacetic acid, .alpha.-meth...	248	C11H11F3O3	077611-72-4	10





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

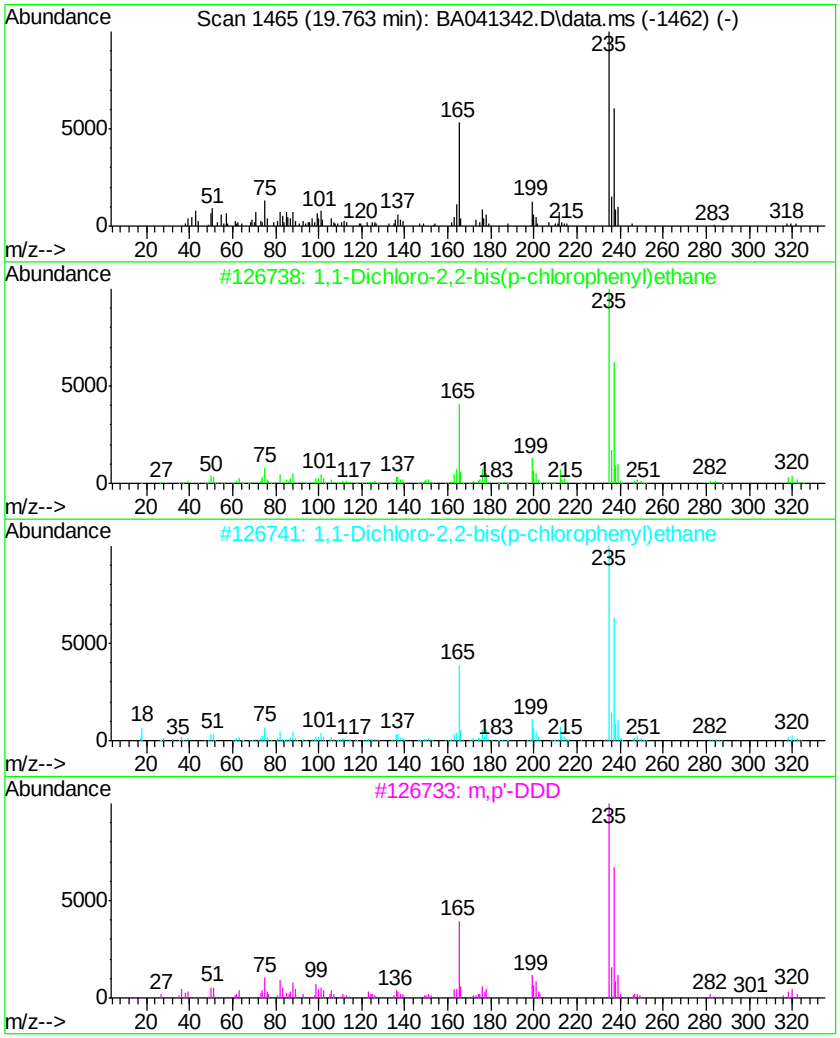
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 1,1-Dichloro-2,2-bis(p-chlo... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.760	3.17 ng/ul	258253	Chrysene-d12	21.356

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	80
2	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	80
3	m,p'-DDD	318	C14H10Cl4	004329-12-8	78
4	2,2-Bis(4-chlorophenyl)acetic acid	280	C14H10Cl2O2	000083-05-6	74
5	3-Butanone, 1,1-bis(4-chlorophen...	320	C18H18Cl2O	1000158-20-4	64



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

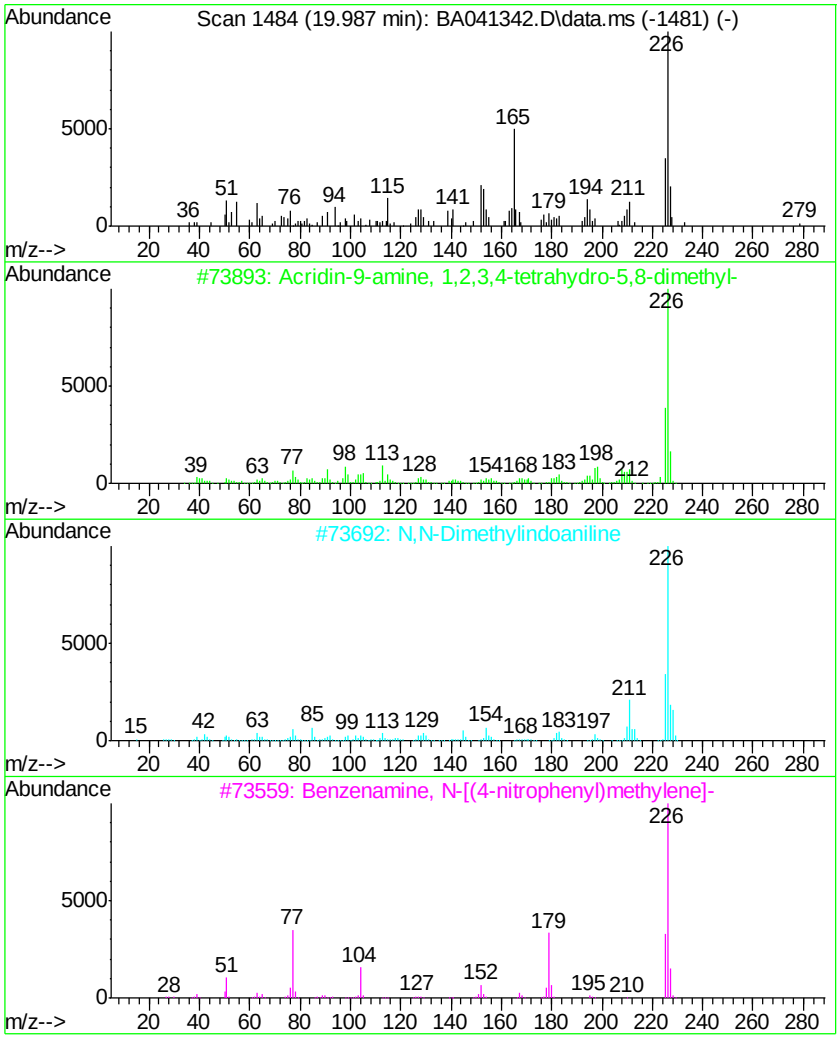
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

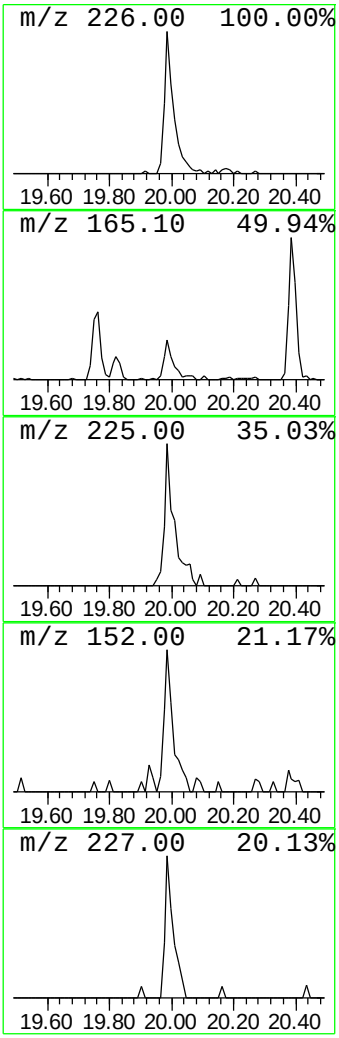
****

Peak Number 4 Acridin-9-amine, 1,2,3,4-te... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.990	3.07 ng/ul	250448	Chrysene-d12	21.356

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridin-9-amine, 1,2,3,4-tetrahy...	226	C15H18N2	297758-19-1	60
2	N,N-Dimethylindoaniline	226	C14H14N2O	002150-58-5	50
3	Benzenamine, N-[(4-nitrophenyl)m...	226	C13H10N2O2	000785-80-8	46
4	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	43
5	Anthralin	226	C14H10O3	000480-22-8	43





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

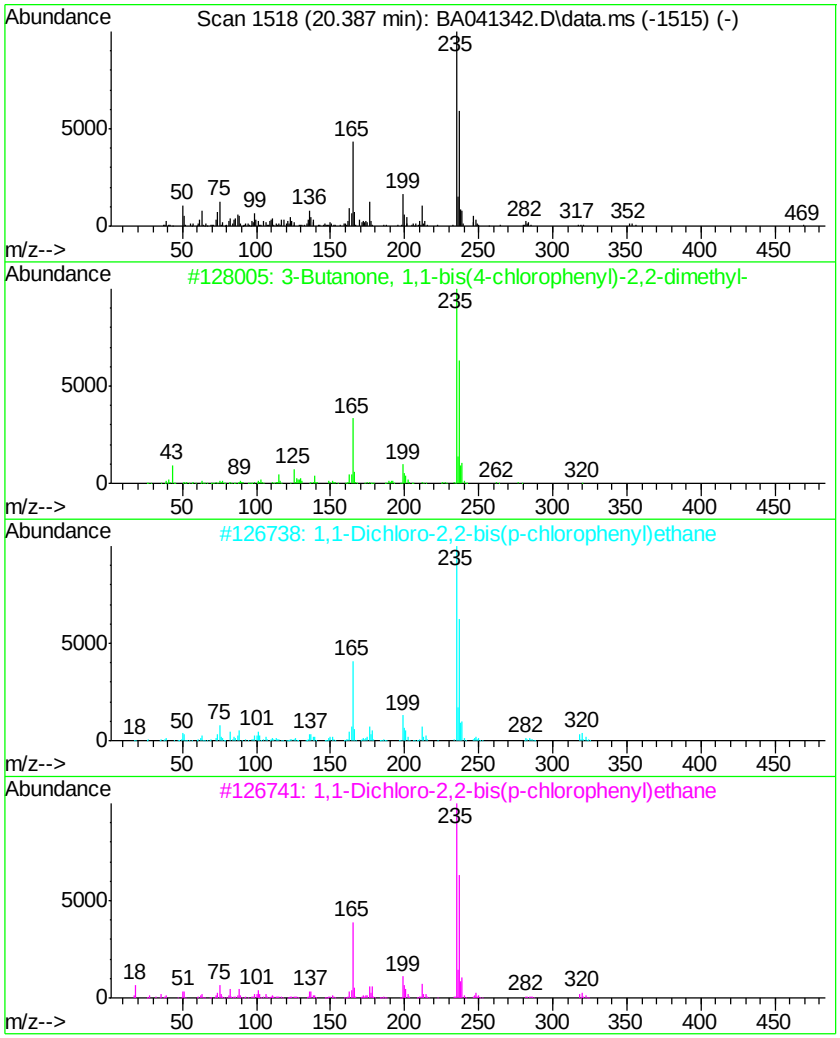
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

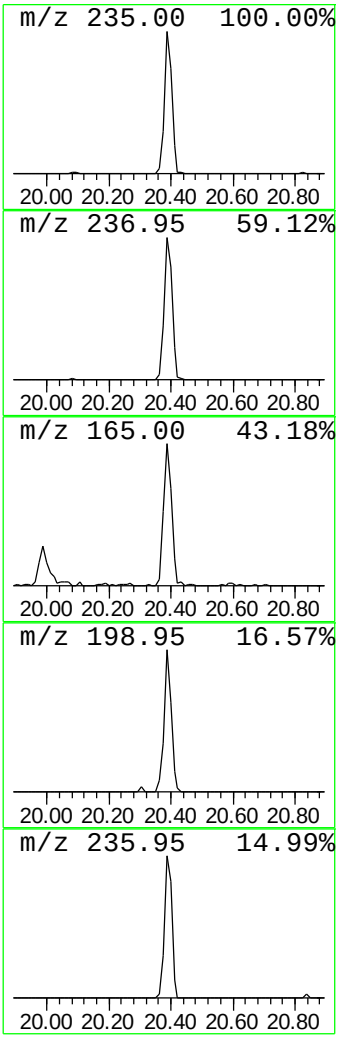
****

Peak Number 5 3-Butanone, 1,1-bis(4-chlor... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.390	8.34 ng/ul	680114	Chrysene-d12	21.356

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Butanone, 1,1-bis(4-chlorophen...	320	C18H18Cl2O	1000158-20-4	91
2	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	91
3	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	91
4	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	90
5	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	86





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On    : 21 Oct 2008   4:27
Operator  : HNP
Sample    : Z4923-02
Misc      :
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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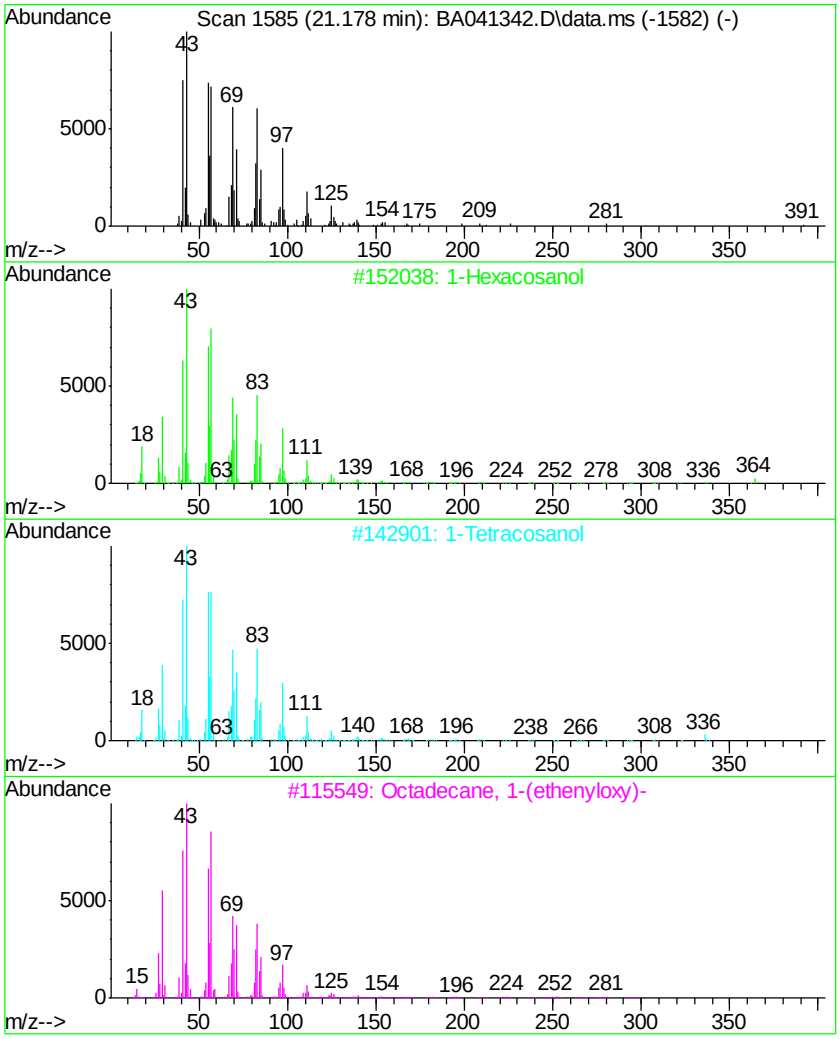
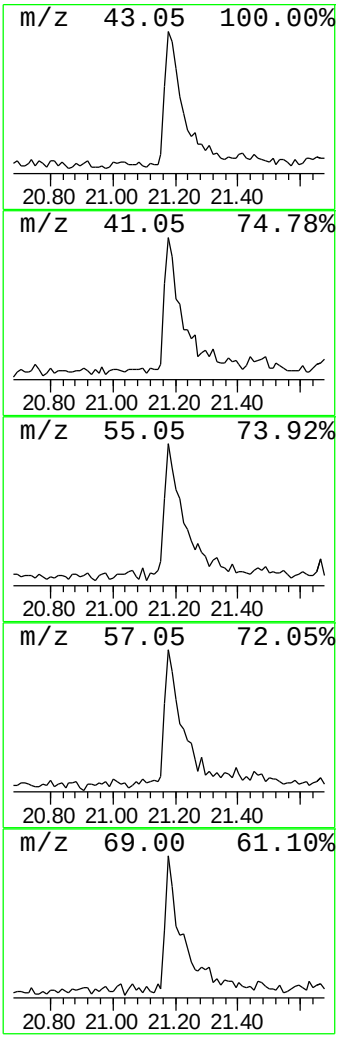
****

Peak Number 6 1-Hexacosanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.180	12.00 ng/ul	978443	Chrysene-d12	21.356

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosanol	382	C26H54O	000506-52-5	91
2	1-Tetracosanol	354	C24H50O	000506-51-4	83
3	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	72
4	17-Pentatriacontene	491	C35H70	006971-40-0	68
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	68





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

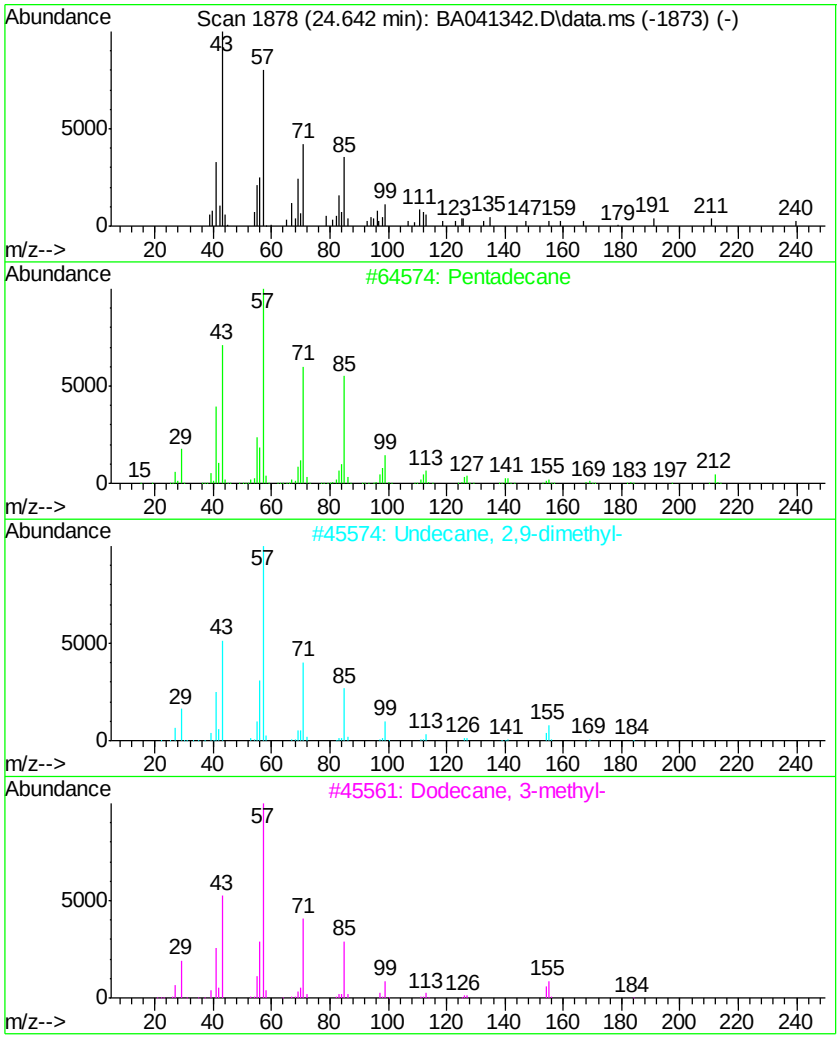
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

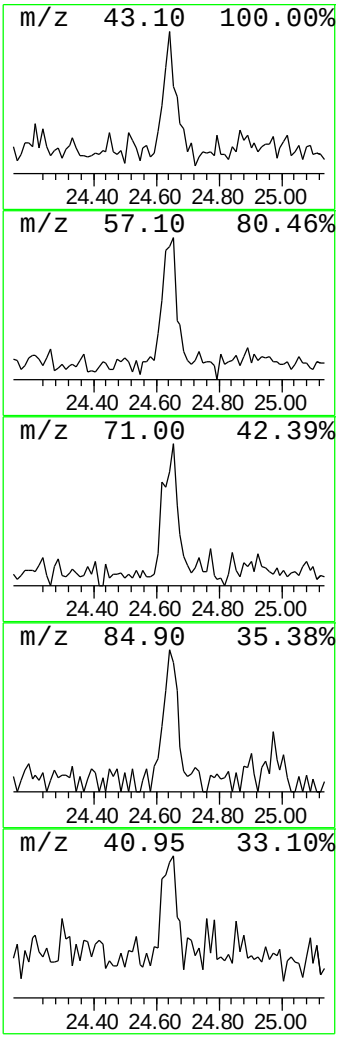
****

Peak Number 7 Pentadecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.640	2.92 ng/ul	200270	Perylene-d12	25.255

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	72
2	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	72
3	Dodecane, 3-methyl-	184	C13H28	017312-57-1	72
4	Heptadecane	240	C17H36	000629-78-7	70
5	Heptadecane	240	C17H36	000629-78-7	68





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

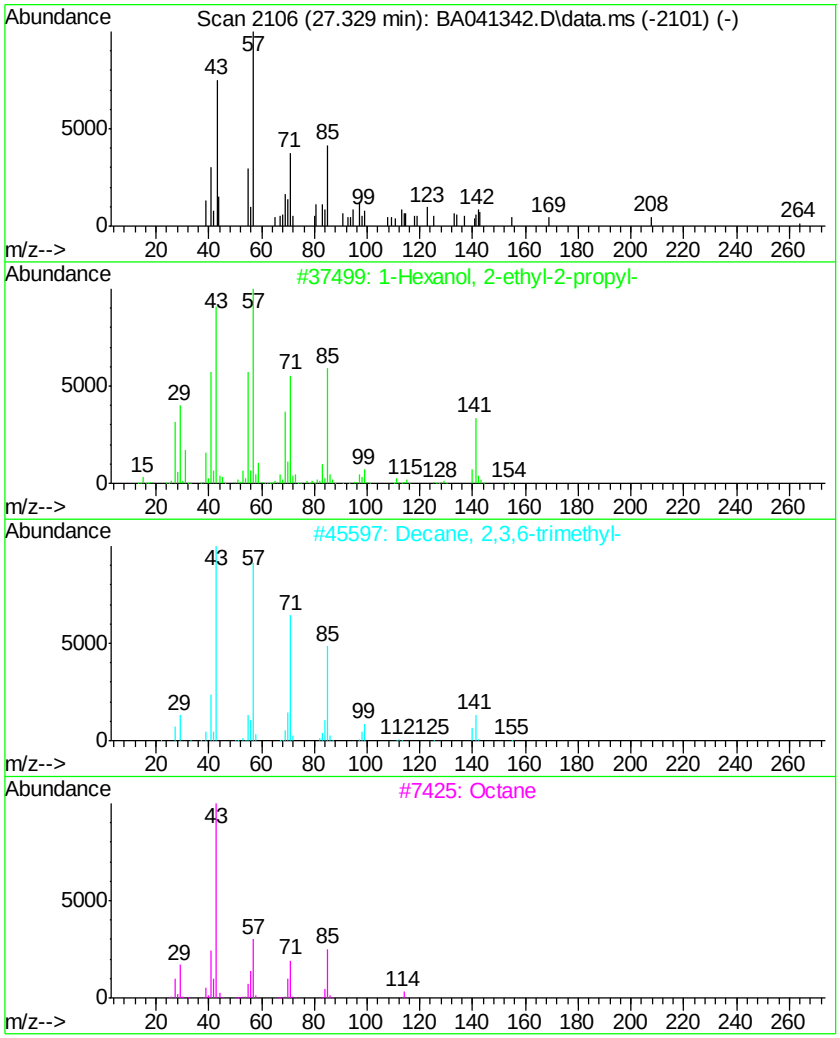
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

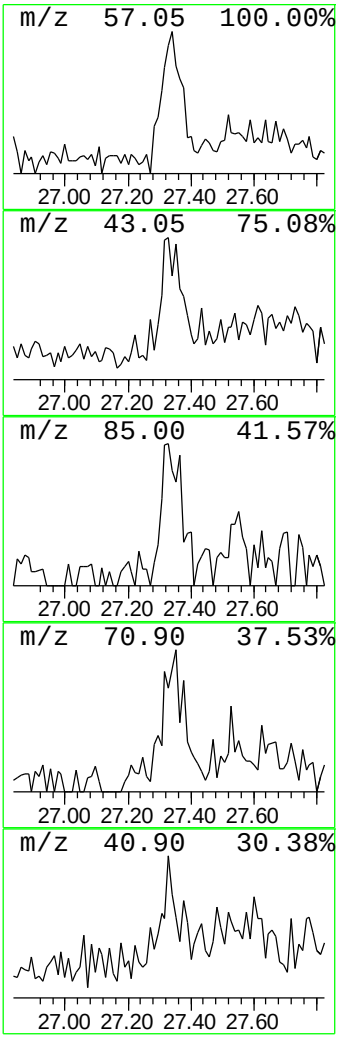
****

Peak Number 8 1-Hexanol, 2-ethyl-2-propyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.330	2.14 ng/ul	146658	Perylene-d12	25.255

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-2-propyl-	172	C11H24O	054461-00-6	50
2	Decane, 2,3,6-trimethyl-	184	C13H28	062238-12-4	47
3	Octane	114	C8H18	000111-65-9	43
4	Heptadecane	240	C17H36	000629-78-7	38
5	Hexadecane	226	C16H34	000544-76-3	38





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041342.D
Acq On : 21 Oct 2008 4:27
Operator : HNP
Sample : Z4923-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Bicyclo[3.1.1]h...	5.540	5.1	ng/ul	331127	1	6.696	1302760	20.0
unknown18.20	18.200	5.0	ng/ul	501878	4	15.775	2029310	20.0
1,1-Dichloro-2,...	19.760	3.2	ng/ul	258253	5	21.356	1630410	20.0
Acridin-9-amine...	19.990	3.1	ng/ul	250448	5	21.356	1630410	20.0
3-Butanone, 1,1...	20.390	8.3	ng/ul	680114	5	21.356	1630410	20.0
1-Hexacosanol	21.180	12.0	ng/ul	978443	5	21.356	1630410	20.0
Pentadecane	24.640	2.9	ng/ul	200270	6	25.255	1370760	20.0
1-Hexanol, 2-et...	27.330	2.1	ng/ul	146658	6	25.255	1370760	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-03

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041343.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	42	J
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	94	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC4-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-03

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041343.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	470	B
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC4-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-03

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041343.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

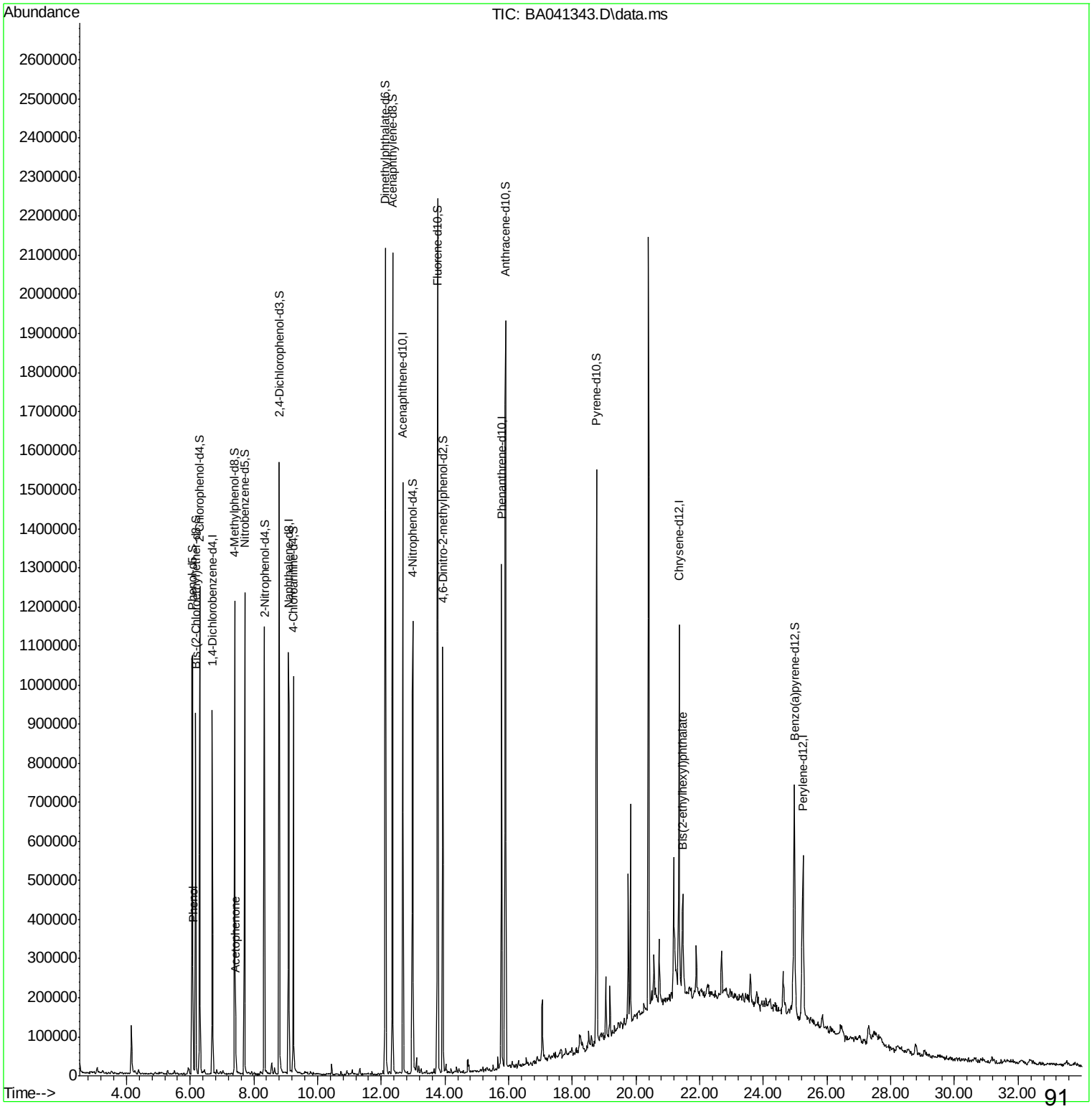
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.15	120	JN
02.	57-10-3	n-Hexadecanoic acid	17.06	100	JNB
03.	3424-82-6	o,p-DDE	19.06	120	JN
04.	72-54-8	1,1-Dichloro-2,2-bis(p-chloroph	19.19	98	JN
05.	4329-12-8	m,p-DDD	19.76	280	JN
06.	789-02-6	o,p-DDT	19.83	390	JN
07.	50-29-3	p,p-DDT	20.39	1400	JN
08.	29761-21-5	Phosphoric acid, isodecyl diphe	20.73	130	JN
09.	74685-30-6	5-Eicosene, (E)-	21.18	550	JNB
10.	62016-18-6	Octane, 5-ethyl-2-methyl-	21.90	100	JN
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

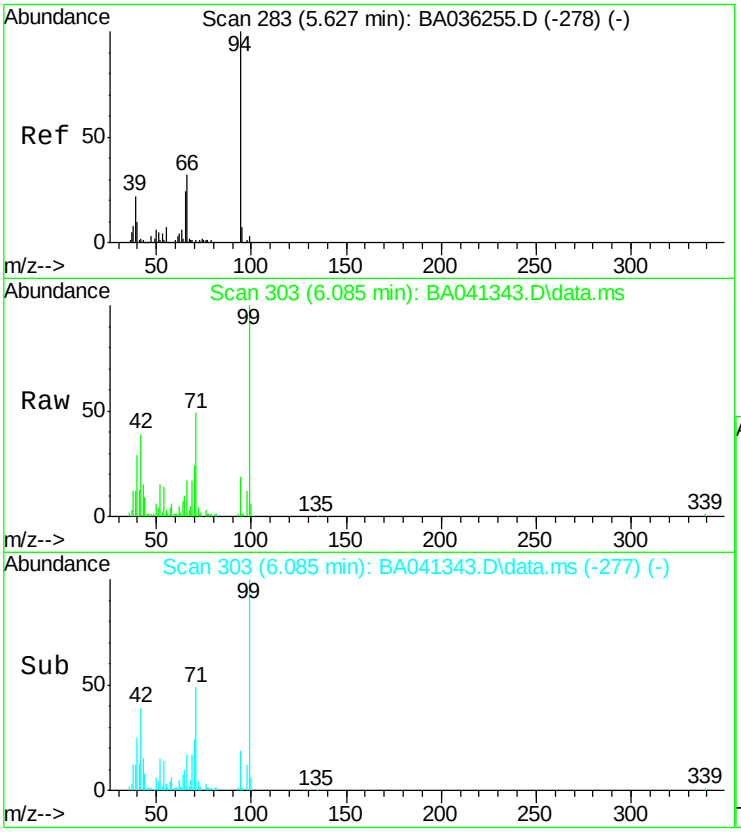
[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 06:07:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

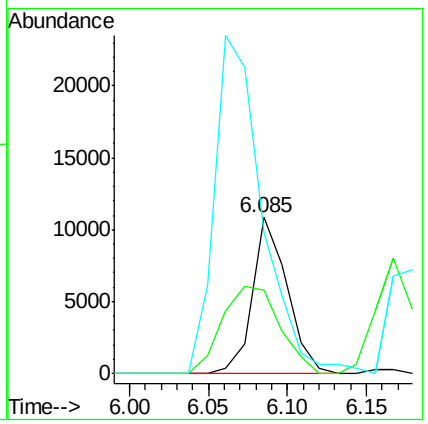


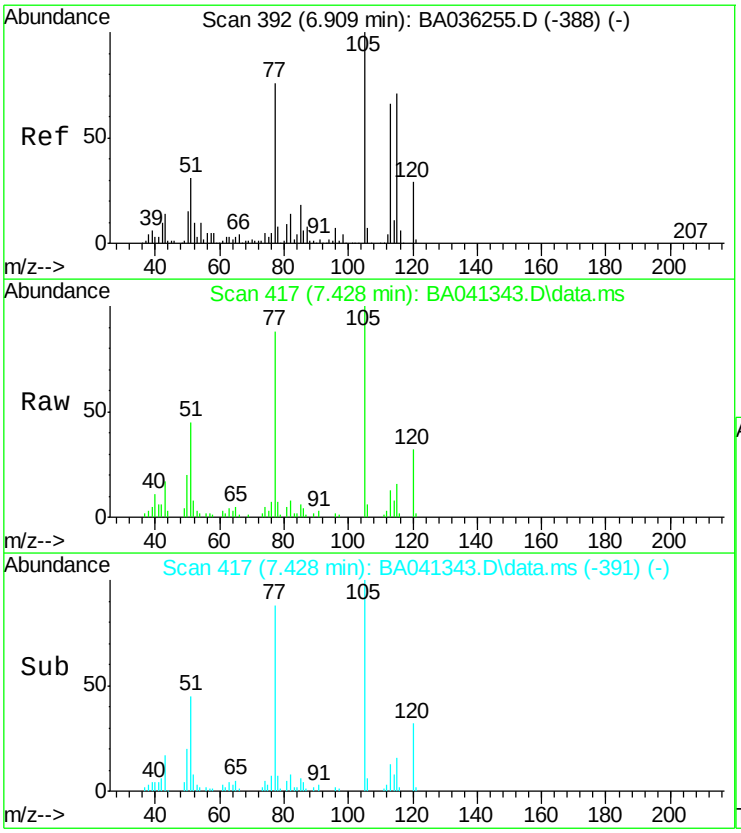


#4
Phenol
Concen: 1.06 ng/ul
RT: 6.085 min Scan# 303
Delta R.T. 0.003 min
Lab File: BA041343.D
Acq: 21 Oct 2008 5:09

Tgt Ion: 94 Resp: 16558

Ion	Ratio	Lower	Upper
94	100		
65	53.3	29.0	43.6#
66	90.2	53.7	80.5#

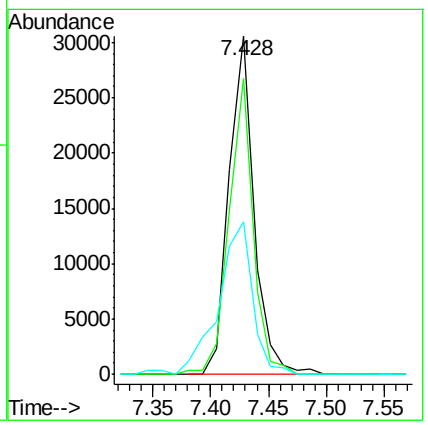


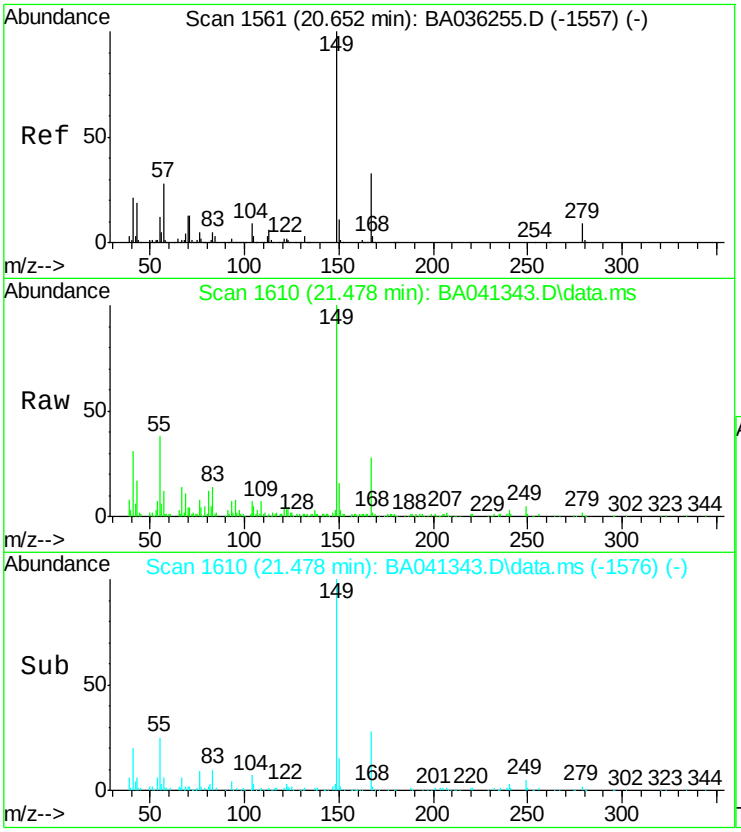


#12
Acetophenone
Concen: 2.40 ng/ul
RT: 7.428 min Scan# 417
Delta R.T. 0.006 min
Lab File: BA041343.D
Acq: 21 Oct 2008 5:09

Tgt Ion:105 Resp: 45651

Ion	Ratio	Lower	Upper
105	100		
77	87.7	69.4	104.2
51	45.0	42.1	63.1

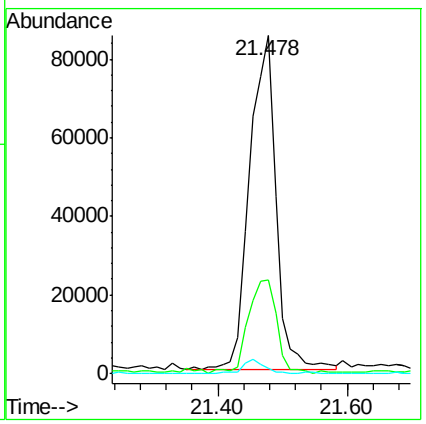




#79
Bis(2-ethylhexyl)phthalate
Concen: 12.02 ng/ul
RT: 21.478 min Scan# 1610
Delta R.T. 0.095 min
Lab File: BA041343.D
Acq: 21 Oct 2008 5:09

Tgt Ion:149 Resp: 238815

Ion	Ratio	Lower	Upper
149	100		
167	27.7	26.2	39.4
279	1.7	7.7	11.5#



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 06:07:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.698	152	236913	20.00	ng/ul	0.02
16) Naphthalene-d8	9.085	136	789978	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.684	164	547375	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.774	188	1018730	20.00	ng/ul	0.02
73) Chrysene-d12	21.352	240	706531	20.00	ng/ul	0.06
81) Perylene-d12	25.245	264	566345	20.00	ng/ul	0.17
System Monitoring Compounds						
3) Phenol-d5	6.073	99	476167	33.20	ng/ul	0.01
5) Bis-(2-Chloroethyl)eth...	6.167	67	334720	34.42	ng/ul	0.01
7) 2-Chlorophenol-d4	6.297	132	447439	36.71	ng/ul	0.00
11) 4-Methylphenol-d8	7.405	113	331049	34.02	ng/ul	0.02
17) Nitrobenzene-d5	7.709	128	243305	34.79	ng/ul	0.02
20) 2-Nitrophenol-d4	8.332	143	284743	33.07	ng/ul	0.02
24) 2,4-Dichlorophenol-d3	8.802	165	479810	30.12	ng/ul	0.01
27) 4-Chloroaniline-d4	9.238	131	394369	25.03	ng/ul	0.02
41) Dimethylphthalate-d6	12.130	166	1330048	36.48	ng/ul	0.01
44) Acenaphthylene-d8	12.354	160	1450996	32.74	ng/ul	0.01
49) 4-Nitrophenol-d4	12.991	143	273264	36.78	ng/ul	0.03
55) Fluorene-d10	13.769	176	944420	32.21	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.934	200	255706	24.25	ng/ul	0.01
68) Anthracene-d10	15.904	188	1354065	27.77	ng/ul	0.04
74) Pyrene-d10	18.762	212	1062573	34.42	ng/ul	0.04
85) Benzo(a)pyrene-d12	24.976	264	751708	24.37	ng/ul	0.16
Target Compounds						Qvalue
4) Phenol	6.085	94	16558	1.06	ng/ul#	71
12) Acetophenone	7.428	105	45651	2.40	ng/ul	95
79) Bis(2-ethylhexyl)phtha...	21.478	149	238815	12.02	ng/ul#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041343.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.861	27	29	31	rBV2	7504	11454	0.32%	0.019%
2	2.908	31	33	35	rVV2	7414	10492	0.30%	0.018%
3	2.979	37	39	43	rVB3	5412	11632	0.33%	0.019%
4	3.085	43	48	50	rBV	15224	39316	1.12%	0.066%
5	3.250	60	62	65	rVB3	6889	14628	0.41%	0.024%
6	3.521	83	85	88	rBV3	8627	20508	0.58%	0.034%
7	3.814	107	110	112	rBV3	4660	11193	0.32%	0.019%
8	4.155	134	139	145	rBV2	124748	243220	6.90%	0.406%
9	4.249	145	147	152	rVB3	7945	19049	0.54%	0.032%
10	4.379	155	158	160	rBV2	12322	24517	0.70%	0.041%
11	5.295	233	236	239	rBV	10395	21737	0.62%	0.036%
12	5.507	252	254	257	rVB3	8341	13792	0.39%	0.023%
13	5.602	257	262	265	rVB3	4553	13133	0.37%	0.022%
14	5.943	287	291	295	rVV4	18565	52372	1.49%	0.087%
15	6.073	298	302	307	rVV	1074172	2043534	57.96%	3.410%
16	6.167	307	310	318	rVV	923866	1356244	38.47%	2.263%
17	6.297	318	321	327	rVV	1248412	1985077	56.30%	3.313%
18	6.415	329	331	332	rVV	8083	15222	0.43%	0.025%
19	6.450	332	334	340	rVB3	11479	23819	0.68%	0.040%
20	6.698	351	355	360	rBV	929823	1597235	45.30%	2.665%
21	6.839	363	367	369	rBV	12204	19243	0.55%	0.032%
22	6.957	372	377	379	rBV3	6145	17255	0.49%	0.029%
23	7.028	380	383	387	rVB4	9104	20470	0.58%	0.034%
24	7.405	411	415	423	rVV2	1210164	2221475	63.01%	3.707%
25	7.522	423	425	429	rVB	4630	12710	0.36%	0.021%
26	7.709	437	441	444	rBV	1234265	2050110	58.15%	3.421%
27	7.932	456	460	463	rVB4	7926	18129	0.51%	0.030%
28	8.014	463	467	469	rVB2	6332	10529	0.30%	0.018%
29	8.203	481	483	484	rVV	9189	12196	0.35%	0.020%
30	8.238	484	486	490	rVV2	5489	12221	0.35%	0.020%
31	8.321	490	493	497	rVV	1144749	1904763	54.03%	3.179%
32	8.391	497	499	502	rVB4	8642	14682	0.42%	0.025%
33	8.555	509	513	518	rBV3	29202	69680	1.98%	0.116%
34	8.649	518	521	526	rVB2	16501	28556	0.81%	0.048%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	8.802	530	534	537	rBV	1566330	2464818	69.91%	4.113%
36	9.085	555	558	562	rBV	1078913	1770128	50.21%	2.954%
37	9.238	568	571	574	rBV	1012831	1514718	42.96%	2.528%
38	9.780	614	617	620	rVB2	7304	13494	0.38%	0.023%
39	9.862	623	624	628	rBV2	5330	13143	0.37%	0.022%
40	10.439	670	673	677	rVB2	27721	50995	1.45%	0.085%
41	10.733	693	698	700	rBV2	9448	15403	0.44%	0.026%
42	10.920	712	714	718	rVB3	11380	20925	0.59%	0.035%
43	11.085	725	728	729	rBV	12515	16581	0.47%	0.028%
44	11.320	744	748	753	rVB	16901	37207	1.06%	0.062%
45	11.707	779	781	784	rVB2	7835	12388	0.35%	0.021%
46	11.978	801	804	807	rBV2	3558	9350	0.27%	0.016%
47	12.047	807	810	813	rBV2	10204	15181	0.43%	0.025%
48	12.130	813	817	820	rBV	2113677	3308908	93.85%	5.522%
49	12.177	820	821	824	rVB2	32045	34091	0.97%	0.057%
50	12.354	832	836	839	rBV	2102166	3250034	92.18%	5.424%
51	12.684	860	864	867	rBV	1509590	2259180	64.08%	3.770%
52	12.814	873	875	878	rVB2	6176	10371	0.29%	0.017%
53	12.991	885	890	898	rBV	1157102	2129213	60.39%	3.553%
54	13.109	898	900	903	rVV2	40167	61750	1.75%	0.103%
55	13.180	903	906	909	rVV3	19825	38173	1.08%	0.064%
56	13.250	909	912	915	rVB3	13168	24648	0.70%	0.041%
57	13.427	923	927	930	rVB4	8018	17479	0.50%	0.029%
58	13.592	938	941	942	rVB	4828	10011	0.28%	0.017%
59	13.651	942	946	950	rBV2	14757	37242	1.06%	0.062%
60	13.769	950	956	959	rBV	2240715	3525700	100.00%	5.884%
61	13.934	966	970	973	rBV	1086018	1664381	47.21%	2.778%
62	14.028	976	978	982	rVB2	22962	47881	1.36%	0.080%
63	14.193	990	992	996	rVB3	13880	23889	0.68%	0.040%
64	14.370	1005	1007	1010	rVB2	16625	31068	0.88%	0.052%
65	14.440	1010	1013	1018	rVB4	11997	27846	0.79%	0.046%
66	14.535	1018	1021	1023	rBV2	5525	10535	0.30%	0.018%
67	14.676	1027	1033	1034	rBV5	4545	9999	0.28%	0.017%
68	14.723	1034	1037	1038	rVV	32046	55346	1.57%	0.092%
69	14.759	1038	1040	1043	rVB3	18025	29849	0.85%	0.050%
70	14.924	1051	1054	1056	rBV2	6351	12559	0.36%	0.021%
71	15.124	1068	1071	1074	rBV4	5296	11408	0.32%	0.019%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.195	1074	1077	1079	rVB3	12147	20773	0.59%	0.035%
73	15.325	1085	1088	1092	rBV6	8524	24296	0.69%	0.041%
74	15.514	1101	1104	1107	rBV4	14427	26372	0.75%	0.044%
75	15.667	1114	1117	1119	rBV	34775	64636	1.83%	0.108%
76	15.726	1119	1122	1123	rBV2	14476	26988	0.77%	0.045%
77	15.774	1123	1126	1130	rVV	1284047	2360138	66.94%	3.939%
78	15.904	1132	1137	1140	rBV	1908458	3473441	98.52%	5.796%
79	16.102	1152	1154	1159	rBV5	16770	38748	1.10%	0.065%
80	16.232	1163	1165	1168	rVB3	11834	26212	0.74%	0.044%
81	16.303	1168	1171	1175	rBV4	19730	48689	1.38%	0.081%
82	16.550	1190	1192	1195	rBV3	16897	21085	0.60%	0.035%
83	16.905	1218	1222	1226	rBV7	18731	63311	1.80%	0.106%
84	17.059	1232	1235	1239	rBV2	151755	300409	8.52%	0.501%
85	18.229	1332	1334	1335	rBV2	31838	43808	1.24%	0.073%
86	18.512	1356	1358	1360	rBV2	34711	33682	0.96%	0.056%
87	18.762	1375	1379	1386	rVB	1460952	2862717	81.20%	4.777%
88	19.058	1401	1404	1408	rBV2	156618	288269	8.18%	0.481%
89	19.186	1412	1415	1418	rVB3	129818	238166	6.76%	0.397%
90	19.756	1460	1463	1466	rBV	371414	666771	18.91%	1.113%
91	19.825	1466	1469	1473	rVB	556937	941752	26.71%	1.572%
92	20.392	1513	1517	1522	rBV	1979877	3431924	97.34%	5.727%
93	20.567	1530	1532	1534	rVB	102711	135356	3.84%	0.226%
94	20.730	1543	1546	1551	rBV	162155	324781	9.21%	0.542%
95	21.180	1581	1584	1594	rBV2	361194	1328309	37.68%	2.217%
96	21.352	1595	1599	1604	rVV	949520	1896794	53.80%	3.165%
97	21.478	1605	1610	1616	rVB2	254777	782678	22.20%	1.306%
98	21.896	1643	1646	1650	rVB5	122973	254244	7.21%	0.424%
99	24.976	1901	1907	1916	rVB	597373	2159896	61.26%	3.604%
100	25.245	1924	1930	1940	rVB	415904	1513058	42.92%	2.525%

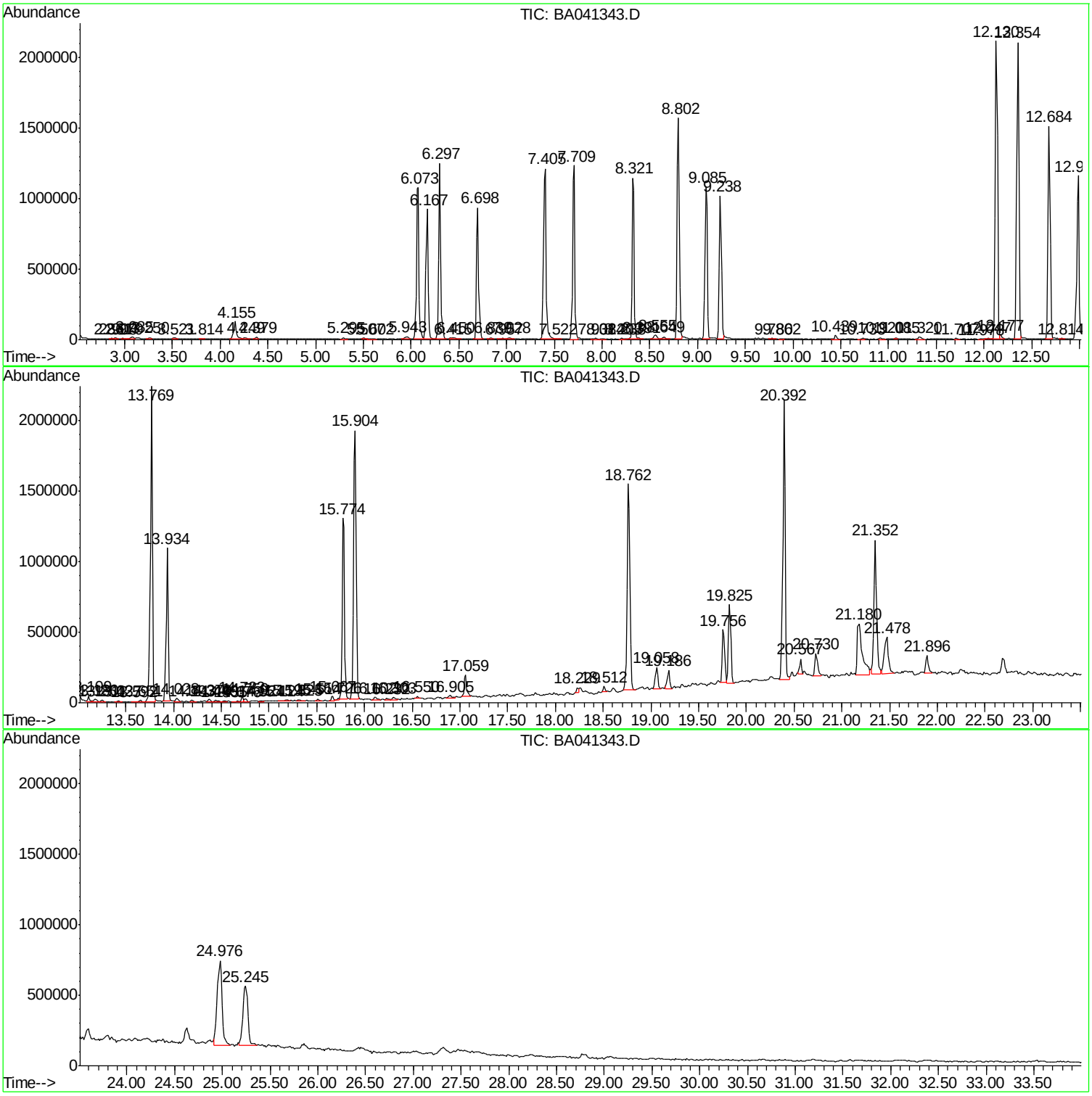
Sum of corrected areas: 59923388

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

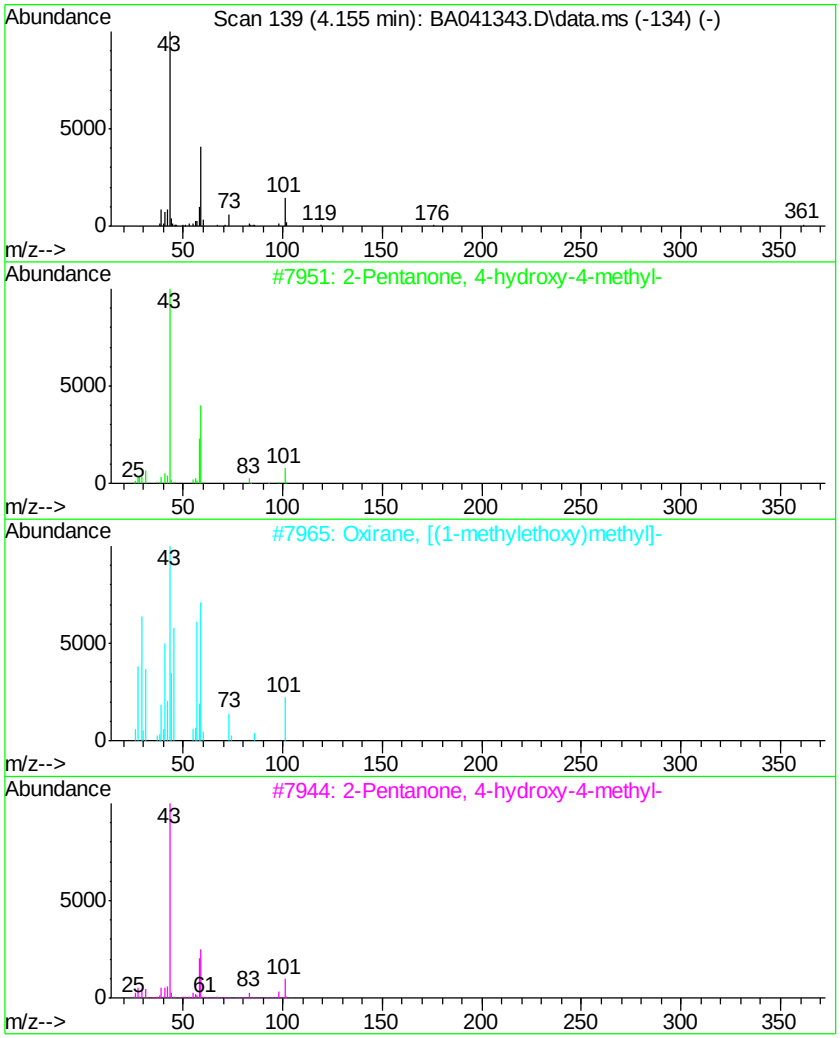
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

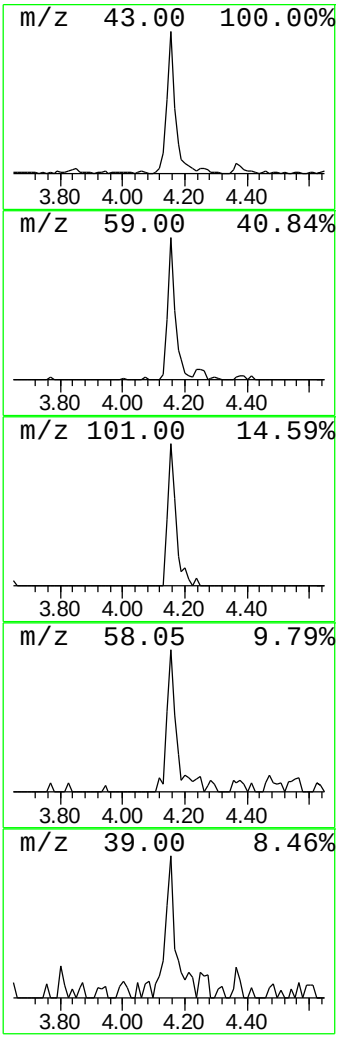
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.150	3.05 ng/ul	243220	1,4-Dichlorobenzene-d4	6.698

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2	Oxirane, [(1-methylethoxy)methyl]-	116	C6H12O2	004016-14-2	39
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	23
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On    : 21 Oct 2008   5:09
Operator  : HNP
Sample    : Z4923-03
Misc      :
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

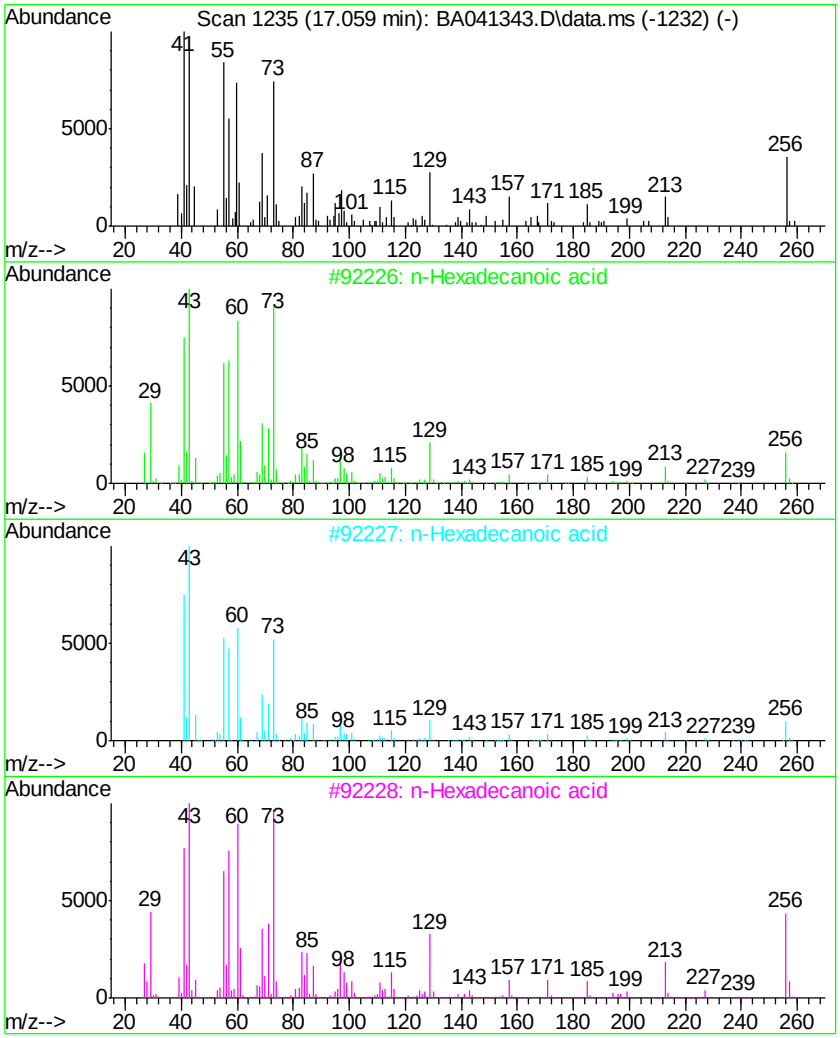
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

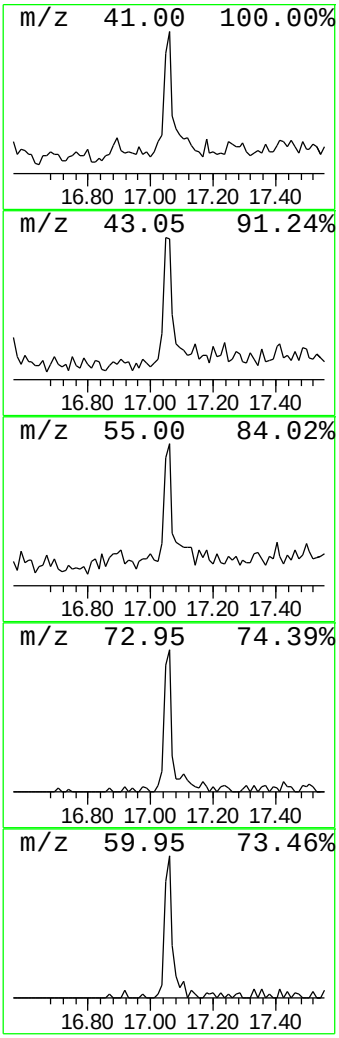
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.060	2.55 ng/ul	300409	Phenanthrene-d10	15.774

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	59
5	n-Decanoic acid	172	C10H20O2	000334-48-5	52





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On    : 21 Oct 2008   5:09
Operator  : HNP
Sample    : Z4923-03
Misc      :
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

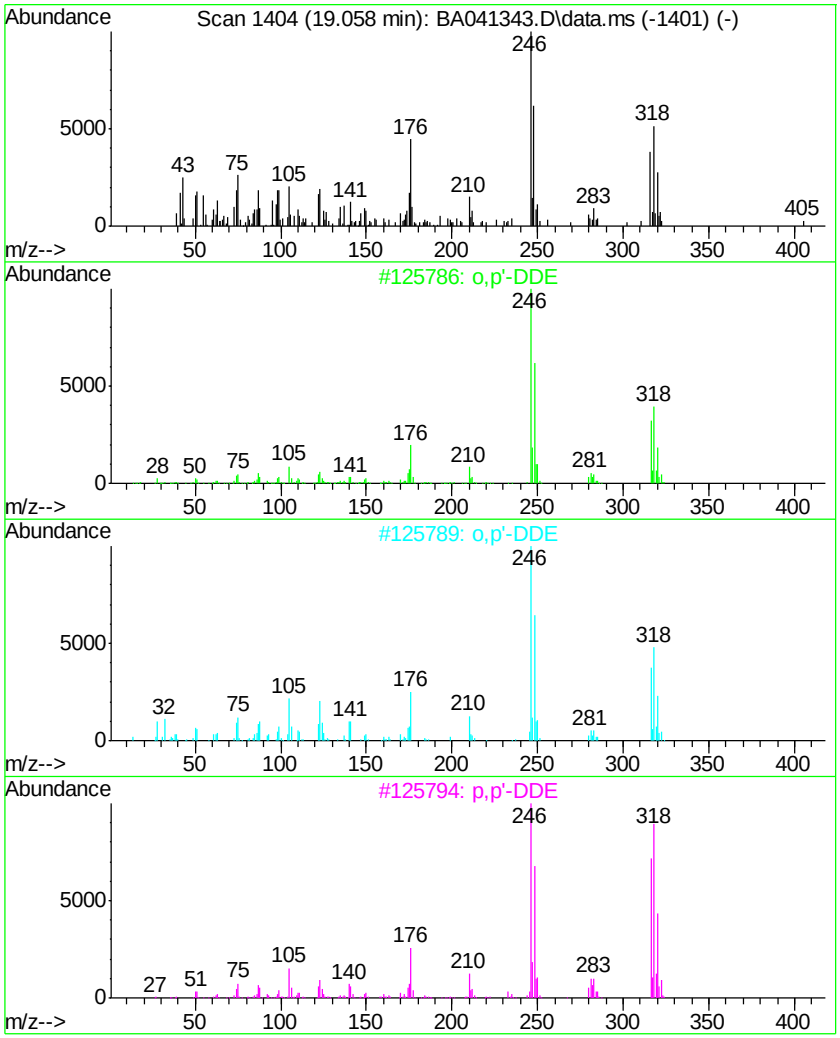
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

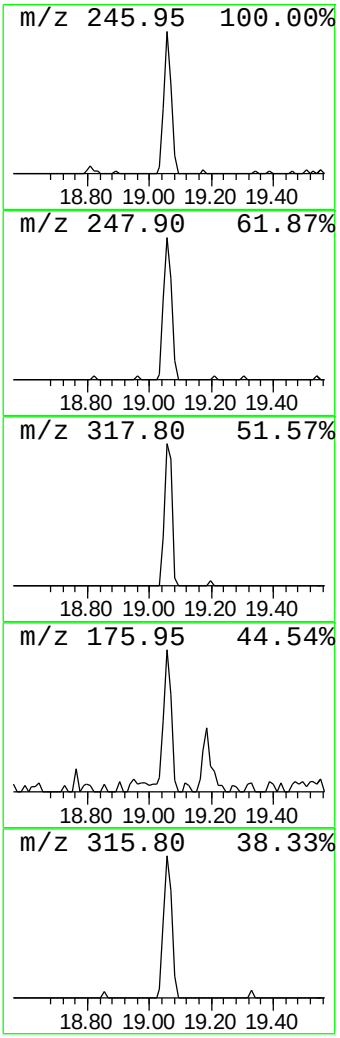
****

Peak Number 3 o,p'-DDE Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.060	3.04 ng/ul	288269	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o,p'-DDE	316	C14H8Cl4	003424-82-6	99
2	o,p'-DDE	316	C14H8Cl4	003424-82-6	98
3	p,p'-DDE	316	C14H8Cl4	000072-55-9	96
4	p,p'-DDE	316	C14H8Cl4	000072-55-9	96
5	p,p'-DDE	316	C14H8Cl4	000072-55-9	93





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On    : 21 Oct 2008   5:09
Operator  : HNP
Sample    : Z4923-03
Misc      :
ALS Vial  : 17   Sample Multiplier: 1

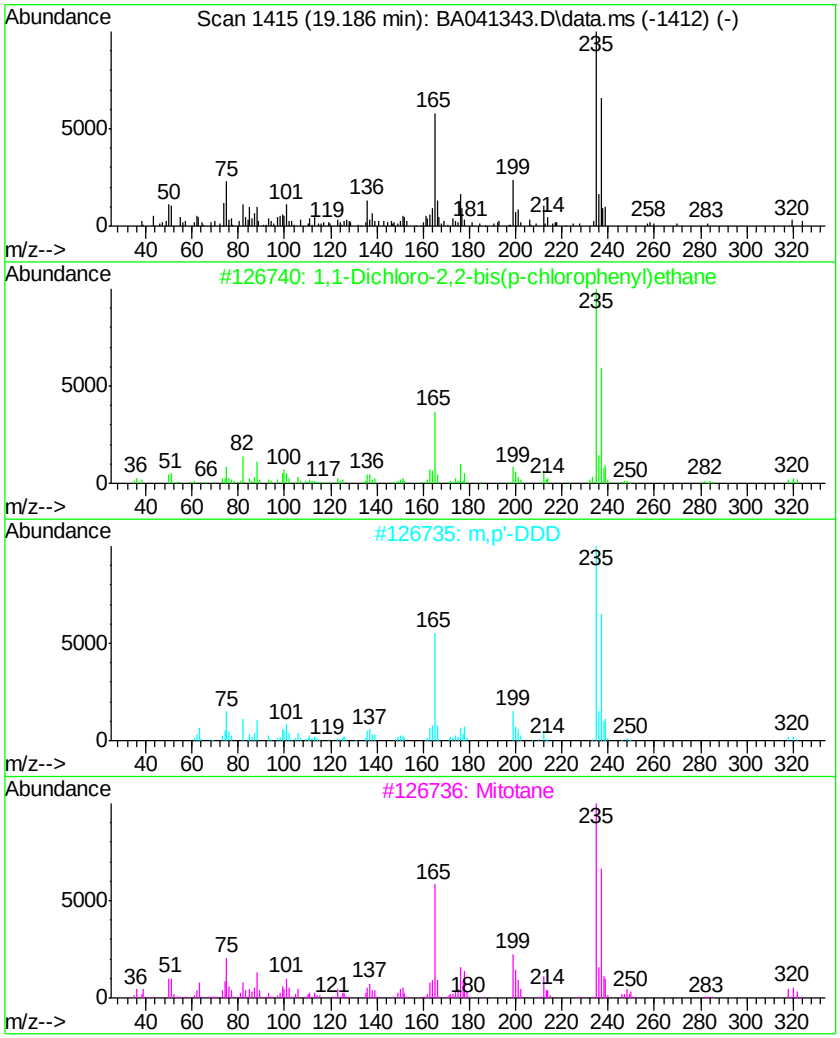
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

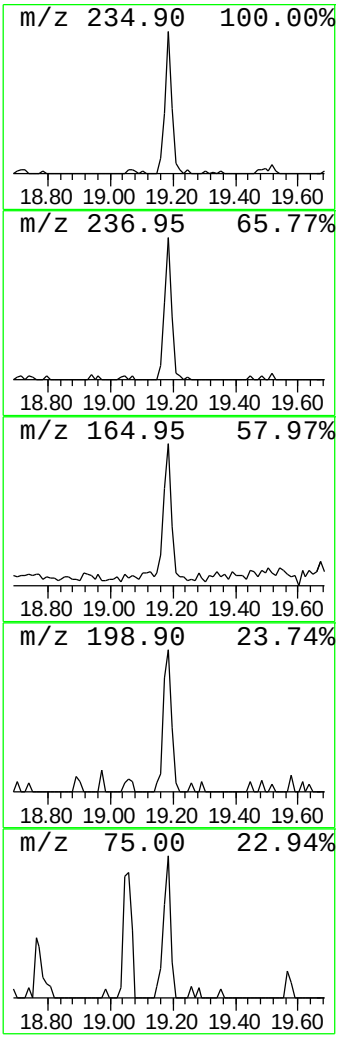
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number  4  1,1-Dichloro-2,2-bis(p-chlo...  Concentration Rank 10
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.190	2.51 ng/ul	238166	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	94
2	m,p'-DDD	318	C14H10Cl4	004329-12-8	93
3	Mitotane	318	C14H10Cl4	000053-19-0	91
4	Mitotane	318	C14H10Cl4	000053-19-0	83
5	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	81





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

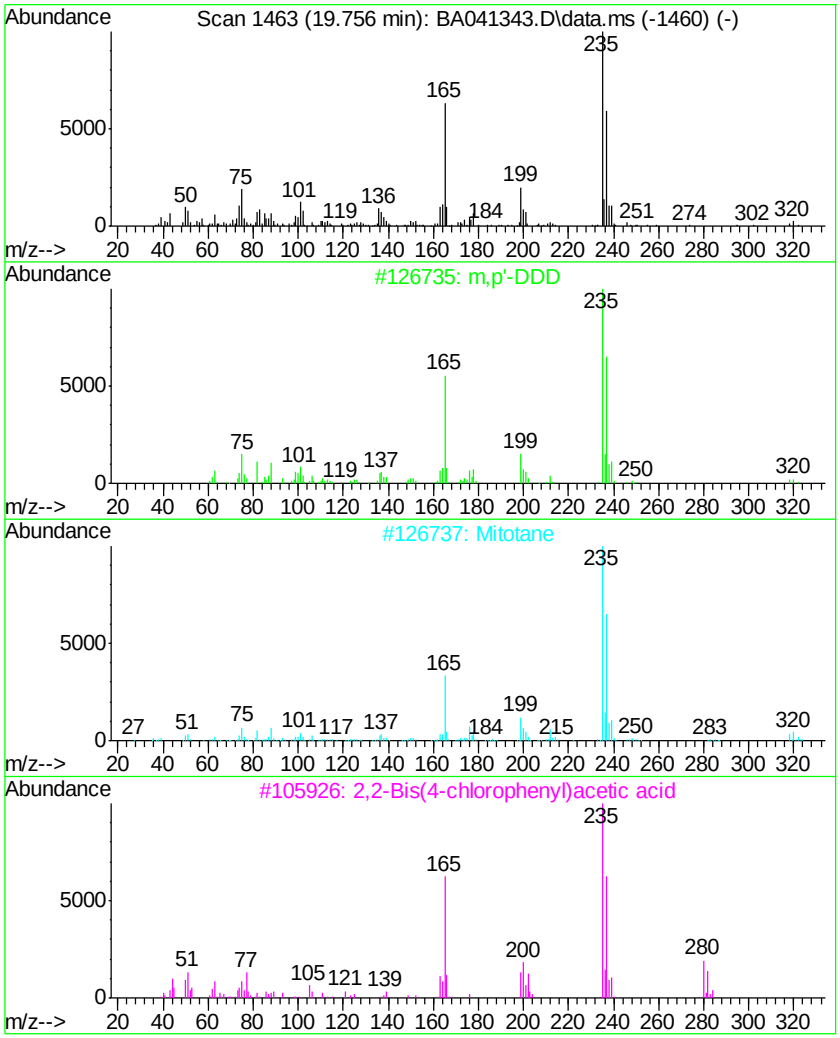
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

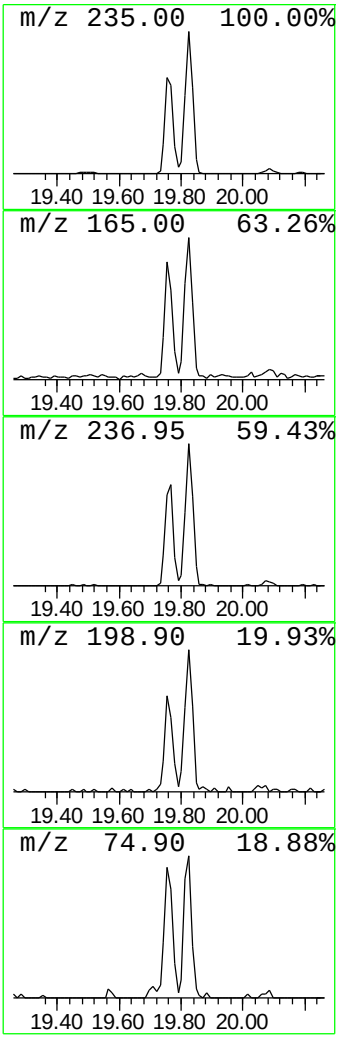
****

Peak Number 5 m,p'-DDD Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.760	7.03 ng/ul	666771	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	m,p'-DDD	318	C14H10Cl4	004329-12-8	96
2	Mitotane	318	C14H10Cl4	000053-19-0	95
3	2,2-Bis(4-chlorophenyl)acetic acid	280	C14H10Cl2O2	000083-05-6	91
4	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	90
5	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	90





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

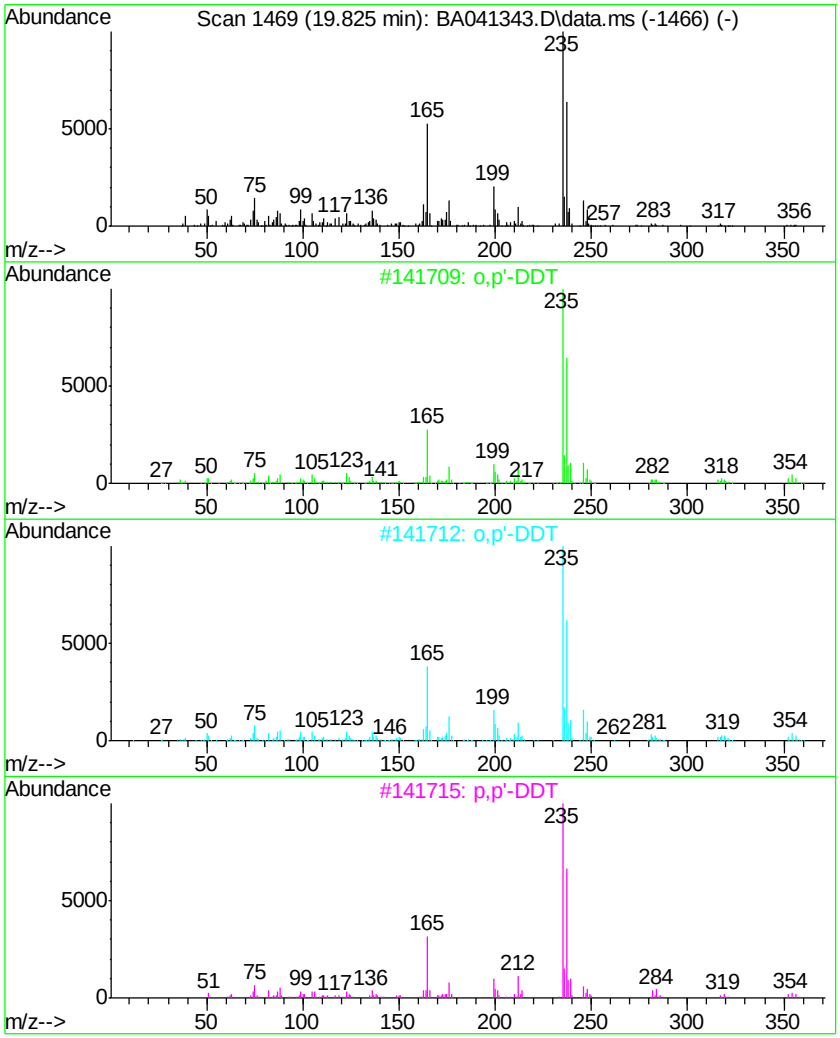
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

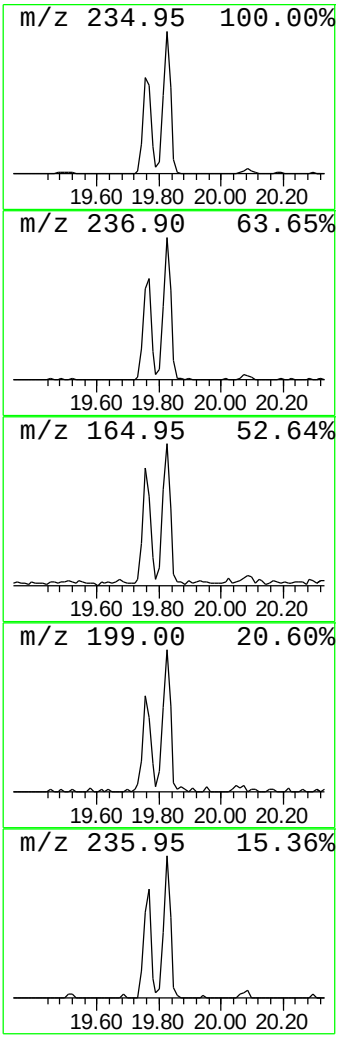
****

Peak Number 6 o,p'-DDT Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.830	9.93 ng/ul	941752	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o,p'-DDT	352	C14H9Cl5	000789-02-6	94
2	o,p'-DDT	352	C14H9Cl5	000789-02-6	91
3	p,p'-DDT	352	C14H9Cl5	000050-29-3	90
4	Mitotane	318	C14H10Cl4	000053-19-0	86
5	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	86





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

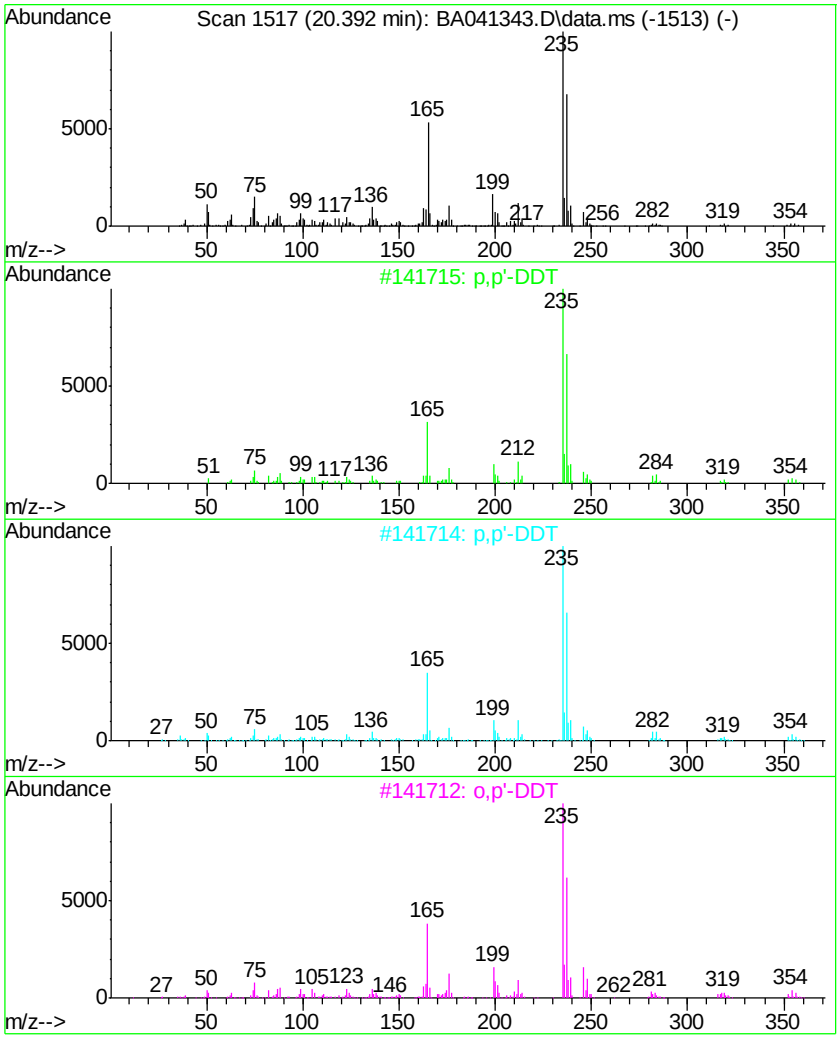
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

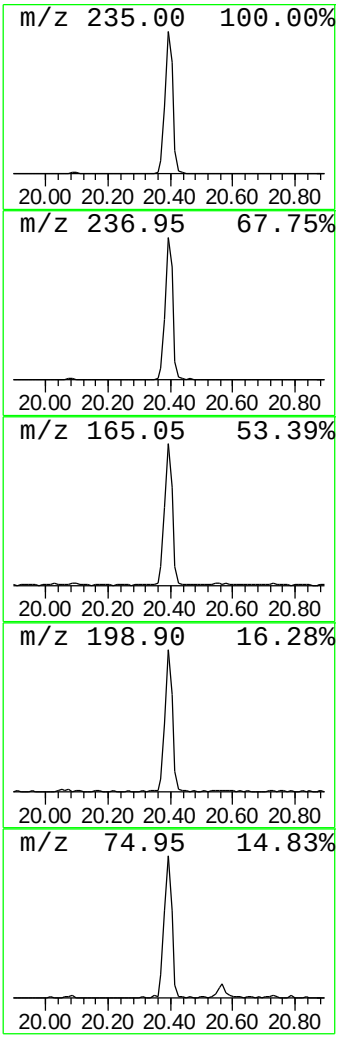
****

Peak Number 7 p,p'-DDT Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.390	36.19 ng/ul	3431920	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p,p'-DDT	352	C14H9Cl5	000050-29-3	95
2	p,p'-DDT	352	C14H9Cl5	000050-29-3	94
3	o,p'-DDT	352	C14H9Cl5	000789-02-6	93
4	Mitotane	318	C14H10Cl4	000053-19-0	91
5	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	91





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On    : 21 Oct 2008   5:09
Operator  : HNP
Sample    : Z4923-03
Misc      :
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

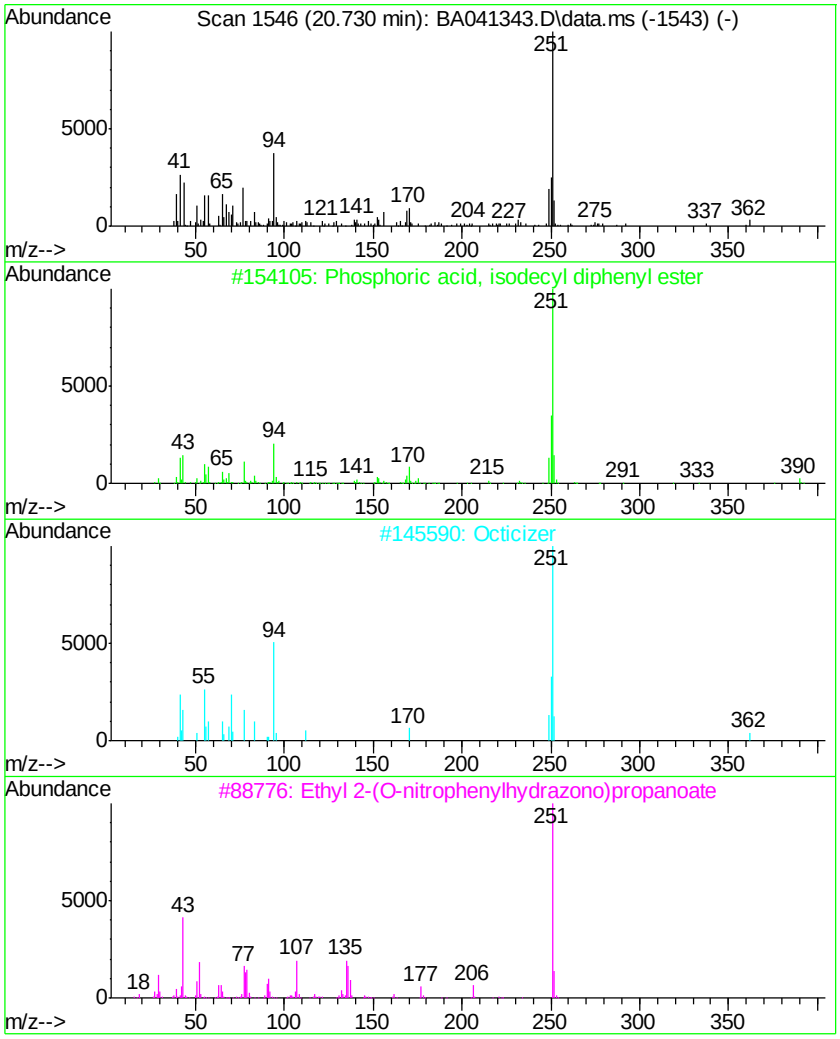
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

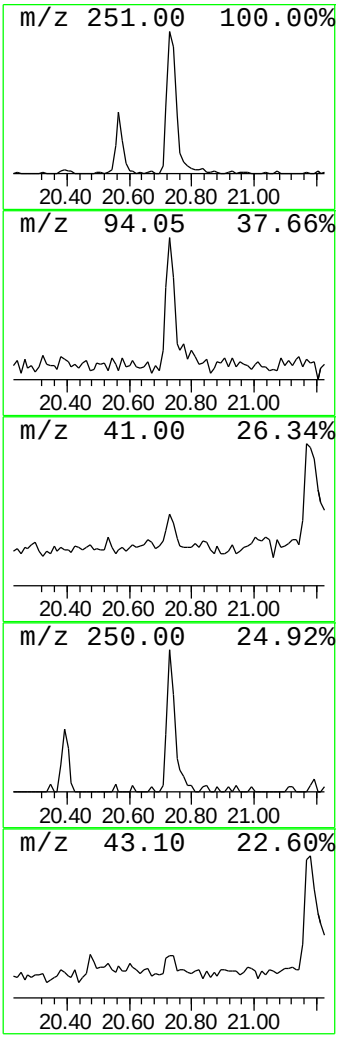
****

Peak Number 8 Phosphoric acid, isodecyl d... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.730	3.42 ng/ul	324781	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphoric acid, isodecyl diphen...	390	C22H31O4P	029761-21-5	90
2	Octicizer	362	C20H27O4P	001241-94-7	49
3	Ethyl 2-(O-nitrophenylhydrazono)...	251	C11H13N3O4	006954-88-7	47
4	1-Phenyl-3-(p-N,N-dimethylaminop...	251	C17H17NO	1000148-23-5	47
5	trans-4'-(Dimethylamino)chalcon	251	C17H17NO	038239-50-8	43





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

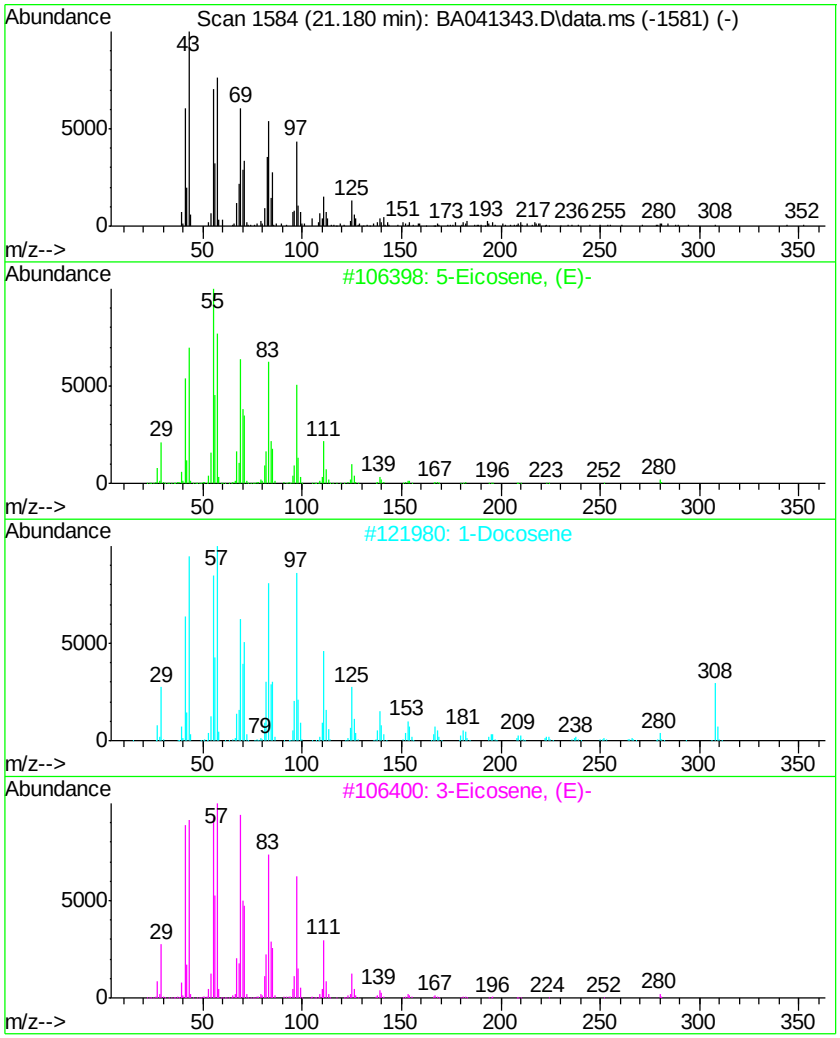
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

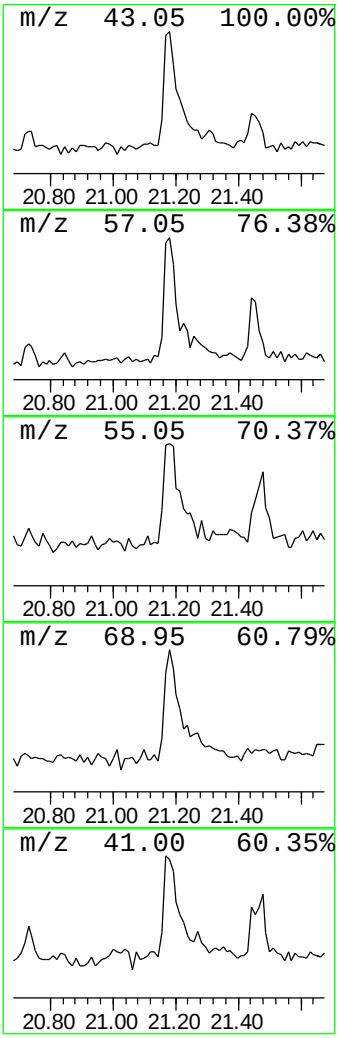
****

Peak Number 9 5-Eicosene, (E)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.180	14.01 ng/ul	1328310	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	98
2	1-Docosene	308	C22H44	001599-67-3	97
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	97
4	1-Eicosene	280	C20H40	003452-07-1	97
5	1-Docosene	308	C22H44	001599-67-3	96





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

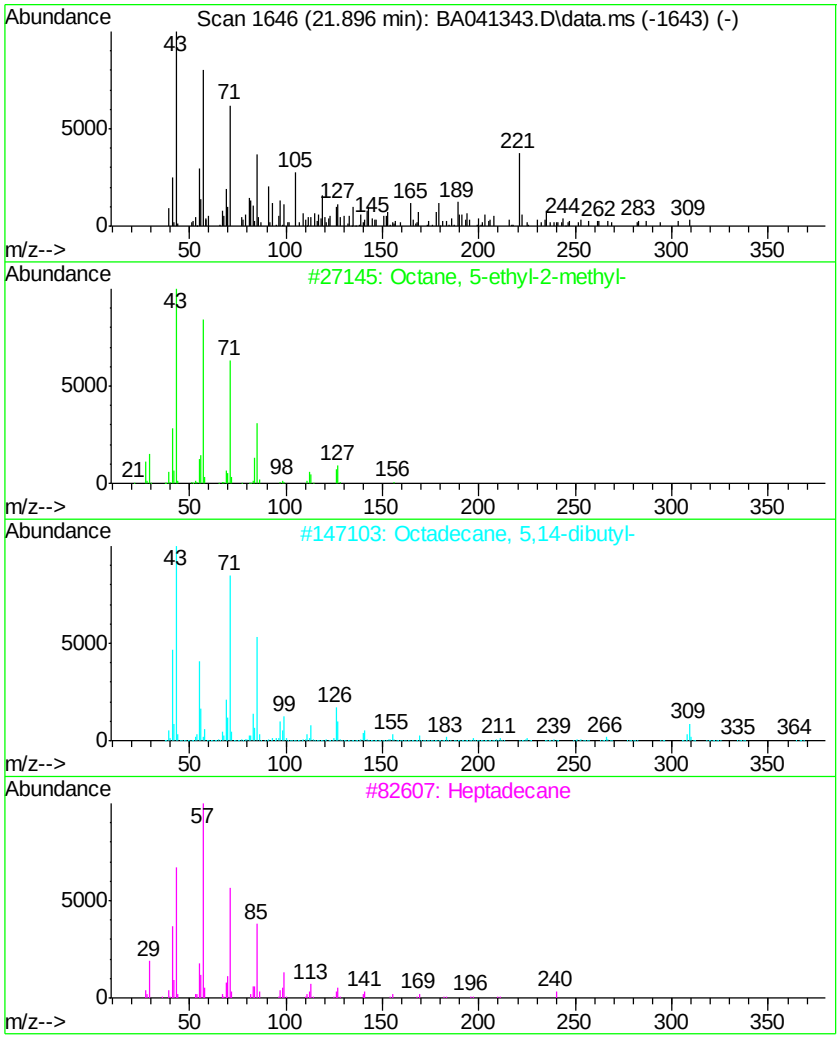
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

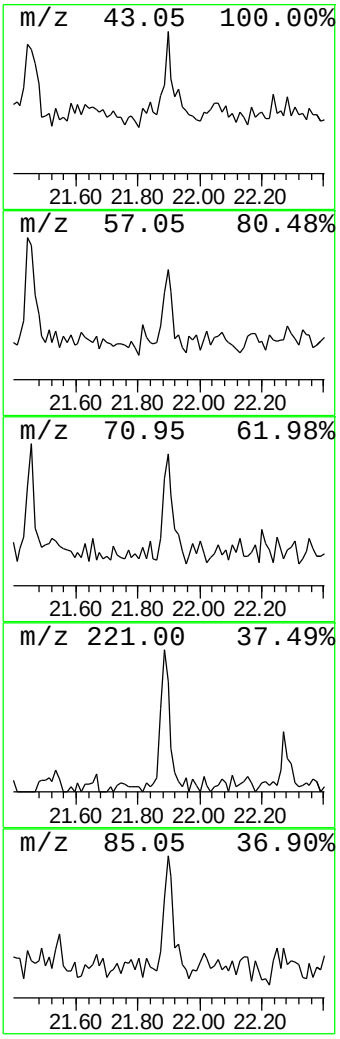
****

Peak Number 10 Octane, 5-ethyl-2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.900	2.68 ng/ul	254244	Chrysene-d12	21.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 5-ethyl-2-methyl-	156	C11H24	062016-18-6	50
2	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	43
3	Heptadecane	240	C17H36	000629-78-7	43
4	Decane, 3-methyl-	156	C11H24	013151-34-3	43
5	Heptadecane	240	C17H36	000629-78-7	43





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041343.D
Acq On : 21 Oct 2008 5:09
Operator : HNP
Sample : Z4923-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.150	3.0	ng/ul	243220	1	6.698	1597240	20.0
n-Hexadecanoic ...	17.060	2.5	ng/ul	300409	4	15.774	2360140	20.0
o,p'-DDE	19.060	3.0	ng/ul	288269	5	21.352	1896790	20.0
1,1-Dichloro-2,...	19.190	2.5	ng/ul	238166	5	21.352	1896790	20.0
m,p'-DDD	19.760	7.0	ng/ul	666771	5	21.352	1896790	20.0
o,p'-DDT	19.830	9.9	ng/ul	941752	5	21.352	1896790	20.0
p,p'-DDT	20.390	36.2	ng/ul	3431920	5	21.352	1896790	20.0
Phosphoric acid...	20.730	3.4	ng/ul	324781	5	21.352	1896790	20.0
5-Eicosene, (E)-	21.180	14.0	ng/ul	1328310	5	21.352	1896790	20.0
Octane, 5-ethyl...	21.900	2.7	ng/ul	254244	5	21.352	1896790	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-2B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-04

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041327.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 11.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.69 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	110	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC4-2B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-04

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041327.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 11.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.69 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC4-2B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-04

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041327.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 11.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.69 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

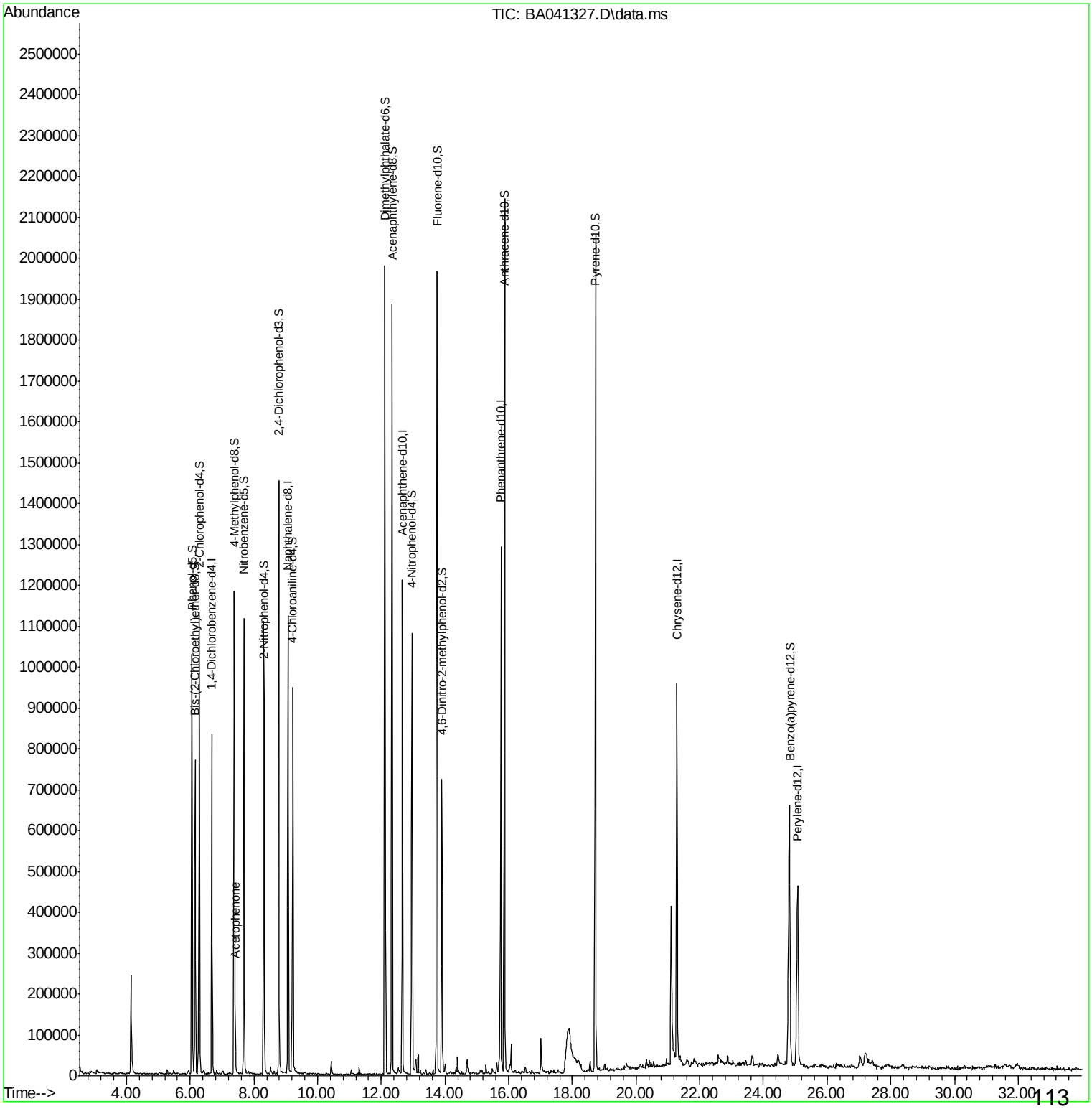
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.14	260	JN
02.	3322-93-8	Cyclohexane, 1,2-dibromo-4-(1,2	17.86	170	JN
03.	1599-67-3	1-Docosene	21.10	530	JN
04.		unknown27.20	27.20	82	J
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

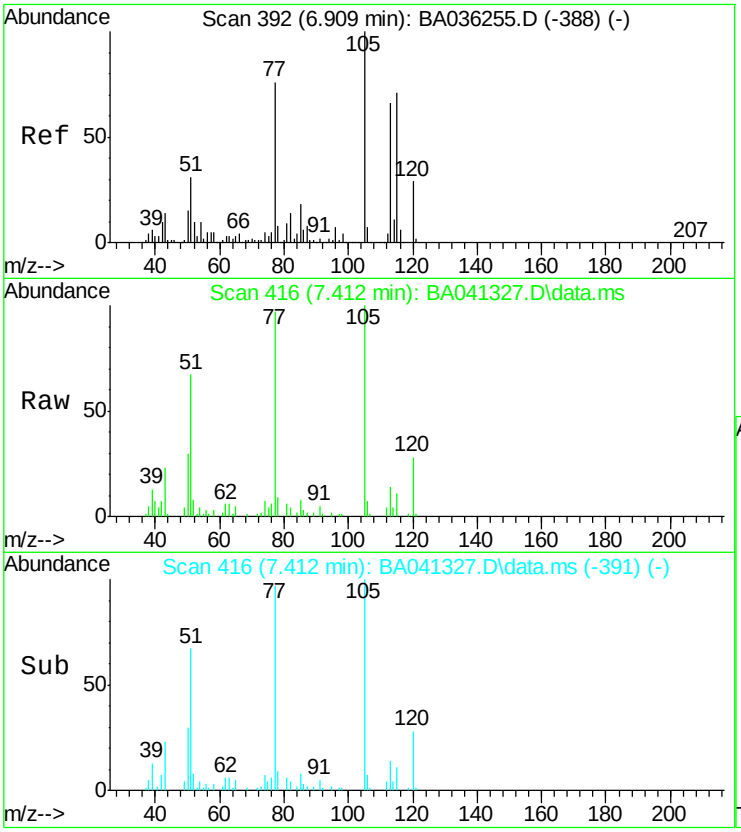
[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 01:45:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

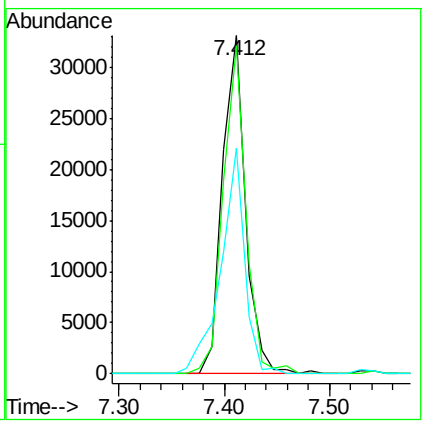




#12
Acetophenone
Concen: 2.92 ng/ul
RT: 7.412 min Scan# 416
Delta R.T. -0.011 min
Lab File: BA041327.D
Acq: 20 Oct 2008 18:04

Tgt Ion:105 Resp: 49998

Ion	Ratio	Lower	Upper
105	100		
77	97.0	69.4	104.2
51	66.9	42.1	63.1#



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 01:45:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.683	152	213005	20.00	ng/ul	0.00
16) Naphthalene-d8	9.071	136	718582	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.667	164	499106	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.754	188	989921	20.00	ng/ul	0.00
73) Chrysene-d12	21.288	240	695878	20.00	ng/ul	0.00
81) Perylene-d12	25.074	264	559090	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.059	99	434244	33.67	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.154	67	292522	33.46	ng/ul	0.00
7) 2-Chlorophenol-d4	6.284	132	395319	36.07	ng/ul	0.00
11) 4-Methylphenol-d8	7.388	113	284044	32.46	ng/ul	0.00
17) Nitrobenzene-d5	7.694	128	221560	34.83	ng/ul	0.00
20) 2-Nitrophenol-d4	8.317	143	262500	33.52	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.777	165	444976	30.70	ng/ul	-0.01
27) 4-Chloroaniline-d4	9.223	131	358592	25.02	ng/ul	0.00
41) Dimethylphthalate-d6	12.116	166	1248839	37.57	ng/ul	0.00
44) Acenaphthylene-d8	12.339	160	1403846	34.74	ng/ul	0.00
49) 4-Nitrophenol-d4	12.961	143	229770	33.92	ng/ul	0.00
55) Fluorene-d10	13.751	176	959283	35.88	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.905	200	164987	16.11	ng/ul	-0.01
68) Anthracene-d10	15.873	188	1485956	31.36	ng/ul	0.01
74) Pyrene-d10	18.724	212	1481440	48.72	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.824	264	844475	27.74	ng/ul	0.00
Target Compounds						Qvalue
12) Acetophenone	7.412	105	49998	2.92	ng/ul#	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041327.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.073	44	47	48	rBV2	9903	17034	0.44%	0.033%
2	3.801	108	109	115	rVB2	4899	13296	0.35%	0.025%
3	4.142	134	138	150	rVV	243631	507068	13.22%	0.971%
4	5.037	208	214	217	rBV2	5628	15020	0.39%	0.029%
5	5.284	232	235	238	rVB	12658	19685	0.51%	0.038%
6	5.485	251	252	255	rVV2	9481	14614	0.38%	0.028%
7	5.954	286	292	297	rBV4	11921	42698	1.11%	0.082%
8	6.059	297	301	306	rVV	1029025	1825629	47.60%	3.497%
9	6.154	306	309	317	rVV	769534	1207244	31.48%	2.313%
10	6.284	317	320	326	rVV	1130616	1812357	47.25%	3.472%
11	6.437	331	333	335	rVV2	9767	15930	0.42%	0.031%
12	6.565	340	344	347	rBV3	6619	13350	0.35%	0.026%
13	6.683	350	354	361	rVB	833075	1452161	37.86%	2.782%
14	6.824	361	366	371	rBV4	10121	26389	0.69%	0.051%
15	7.035	378	384	386	rBV5	7578	25361	0.66%	0.049%
16	7.388	410	414	421	rVV2	1180085	1980569	51.64%	3.794%
17	7.694	436	440	443	rBV	1114544	1959914	51.10%	3.754%
18	7.835	450	452	455	rVB3	7849	14576	0.38%	0.028%
19	7.906	455	458	463	rVV4	6369	18462	0.48%	0.035%
20	8.305	489	492	496	rBV	1109201	1766404	46.06%	3.384%
21	8.364	496	497	502	rVB3	8484	14355	0.37%	0.027%
22	8.529	508	511	515	rBV	16698	26226	0.68%	0.050%
23	8.623	517	519	524	rVB3	8484	18132	0.47%	0.035%
24	8.729	524	528	529	rVB2	5340	12690	0.33%	0.024%
25	8.777	529	532	536	rBV	1455424	2294434	59.82%	4.395%
26	9.071	554	557	560	rBV	1120321	1613719	42.08%	3.091%
27	9.223	566	570	573	rBV	941799	1415246	36.90%	2.711%
28	9.589	598	601	602	rBV	7698	14762	0.38%	0.028%
29	9.624	602	604	608	rVV	6809	15311	0.40%	0.029%
30	10.424	668	672	675	rBV	32916	55124	1.44%	0.106%
31	11.059	721	726	728	rBV2	12775	20541	0.54%	0.039%
32	11.305	744	747	750	rVB3	17838	28022	0.73%	0.054%
33	12.116	812	816	818	rBV	1980729	3091292	80.60%	5.922%
34	12.152	818	819	823	rVB	34249	37777	0.98%	0.072%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.339	831	835	838	rBV	1883350	3148347	82.09%	6.031%
36	12.539	849	852	859	rBV4	14463	37276	0.97%	0.071%
37	12.667	859	863	866	rVV	1206815	2085916	54.39%	3.996%
38	12.961	884	888	891	rBV	1080332	1861227	48.53%	3.565%
39	13.091	894	899	902	rVB5	33898	78541	2.05%	0.150%
40	13.162	902	905	907	rVB	45671	71601	1.87%	0.137%
41	13.233	907	911	915	rVB4	9977	29238	0.76%	0.056%
42	13.327	915	919	921	rBV3	5413	13023	0.34%	0.025%
43	13.398	921	925	928	rVB3	12794	27554	0.72%	0.053%
44	13.622	942	944	947	rBV2	12322	17323	0.45%	0.033%
45	13.751	951	955	958	rVB	1951900	3436197	89.59%	6.582%
46	13.905	965	968	973	rBV	718902	1083151	28.24%	2.075%
47	13.999	974	976	980	rVB	24205	40008	1.04%	0.077%
48	14.351	1003	1006	1008	rBV2	18013	33373	0.87%	0.064%
49	14.399	1008	1010	1017	rVB3	42585	80064	2.09%	0.153%
50	14.693	1032	1035	1037	rBV2	34218	56239	1.47%	0.108%
51	15.165	1072	1075	1078	rVB3	7675	14307	0.37%	0.027%
52	15.283	1082	1085	1089	rBV3	21319	36299	0.95%	0.070%
53	15.377	1089	1093	1095	rVB2	7136	13438	0.35%	0.026%
54	15.483	1098	1102	1108	rBV3	13298	43237	1.13%	0.083%
55	15.636	1112	1115	1117	rBV	25514	48278	1.26%	0.092%
56	15.695	1117	1120	1121	rBV	19422	25889	0.68%	0.050%
57	15.754	1121	1125	1128	rVV	1283396	2296532	59.88%	4.399%
58	15.873	1130	1135	1142	rVB	2135620	3784450	98.67%	7.249%
59	16.048	1147	1150	1151	rVV3	21323	45023	1.17%	0.086%
60	16.071	1151	1152	1155	rVB	71204	98047	2.56%	0.188%
61	16.529	1188	1191	1196	rVB4	15289	33570	0.88%	0.064%
62	16.729	1206	1208	1212	rBV3	7140	15543	0.41%	0.030%
63	17.011	1229	1232	1238	rBV3	87297	167288	4.36%	0.320%
64	17.247	1249	1252	1253	rVB2	8086	16563	0.43%	0.032%
65	17.294	1253	1256	1258	rBV3	5356	14024	0.37%	0.027%
66	17.424	1265	1267	1269	rVB3	8258	13031	0.34%	0.025%
67	17.861	1291	1304	1305	rBV3	104903	516170	13.46%	0.989%
68	18.275	1337	1339	1347	rVB	20219	48495	1.26%	0.093%
69	18.559	1360	1363	1367	rVB	24615	47867	1.25%	0.092%
70	18.724	1372	1377	1380	rBV	2045337	3835338	100.00%	7.347%
71	19.018	1399	1402	1404	rBV4	16598	27842	0.73%	0.053%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

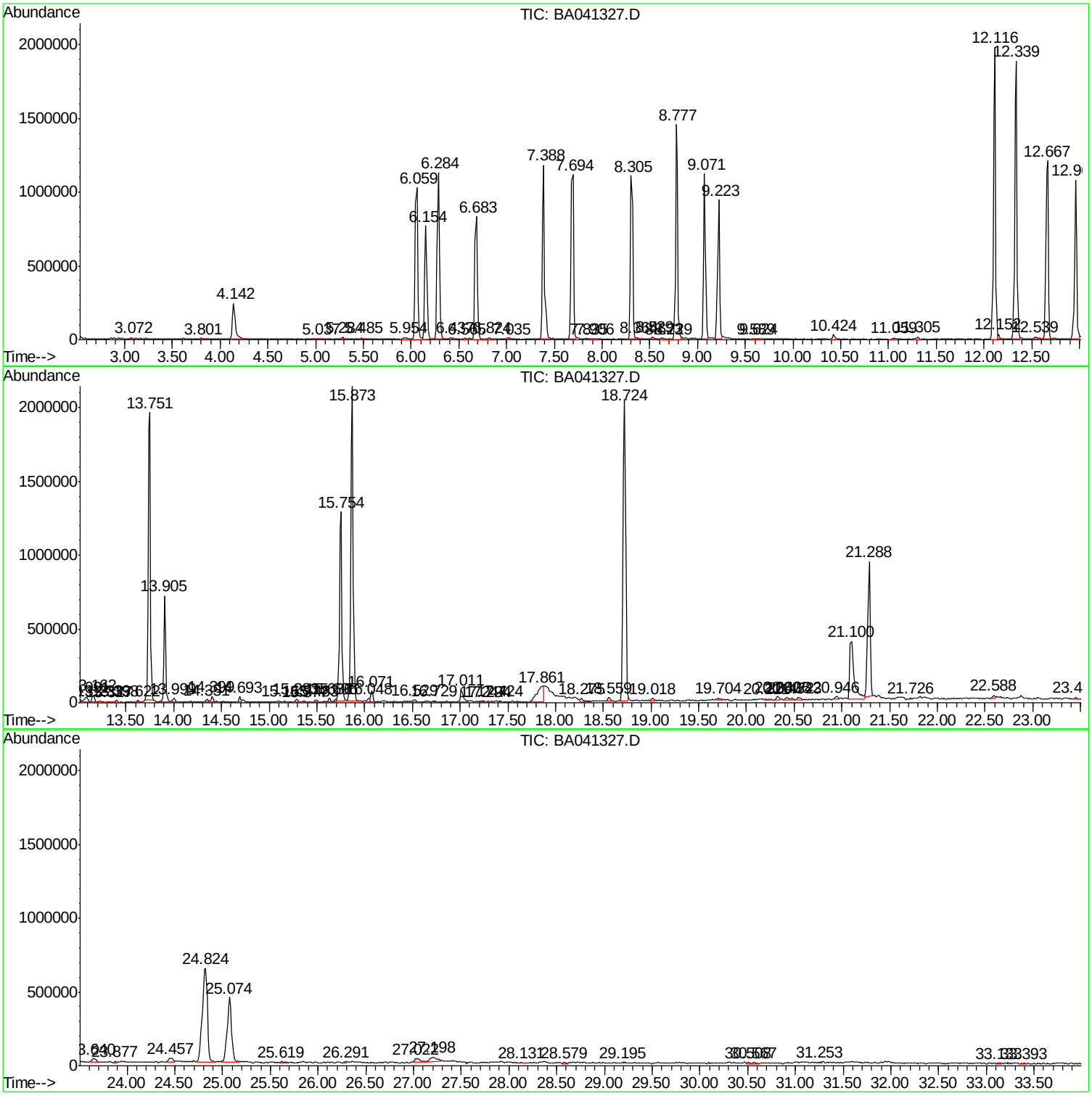
72	19.704	1458	1460	1464	rVB4	12645	27067	0.71%	0.052%
73	20.211	1501	1503	1506	rBV4	6656	12292	0.32%	0.024%
74	20.330	1509	1513	1515	rBV5	23791	55528	1.45%	0.106%
75	20.425	1518	1521	1523	rVV4	17938	30825	0.80%	0.059%
76	20.472	1523	1525	1528	rVV4	11992	23104	0.60%	0.044%
77	20.543	1530	1531	1535	rVB3	15949	29147	0.76%	0.056%
78	20.946	1563	1565	1567	rVB3	17462	30865	0.80%	0.059%
79	21.100	1575	1578	1590	rBV	390000	1218503	31.77%	2.334%
80	21.288	1590	1594	1598	rVV	912365	1717865	44.79%	3.291%
81	21.726	1629	1631	1632	rBV2	10170	16870	0.44%	0.032%
82	22.588	1702	1704	1706	rBV3	17643	29102	0.76%	0.056%
83	23.451	1775	1777	1780	rVB4	14464	26324	0.69%	0.050%
84	23.640	1791	1793	1799	rVB5	25693	70489	1.84%	0.135%
85	23.877	1811	1813	1815	rBV2	11356	21164	0.55%	0.041%
86	24.457	1858	1862	1866	rBV6	29738	94138	2.45%	0.180%
87	24.824	1885	1893	1901	rVB	637523	2289830	59.70%	4.386%
88	25.074	1907	1914	1922	rVB	436430	1412395	36.83%	2.706%
89	25.619	1958	1960	1966	rBV6	9414	25601	0.67%	0.049%
90	26.291	2014	2017	2018	rBV3	12446	23181	0.60%	0.044%
91	27.022	2076	2079	2088	rBV5	26859	113443	2.96%	0.217%
92	27.198	2089	2094	2101	rVV10	28303	155556	4.06%	0.298%
93	28.131	2171	2173	2179	rBV6	6812	15202	0.40%	0.029%
94	28.579	2209	2211	2214	rBV4	8683	20871	0.54%	0.040%
95	29.195	2262	2263	2267	rBV5	5792	14895	0.39%	0.029%
96	30.508	2372	2374	2377	rVB4	7951	15737	0.41%	0.030%
97	30.567	2377	2379	2383	rBV3	9671	20477	0.53%	0.039%
98	31.253	2436	2437	2439	rBV2	7831	14373	0.37%	0.028%
99	33.133	2593	2596	2598	rBV4	6409	19569	0.51%	0.037%
100	33.393	2614	2618	2620	rBV3	5777	13413	0.35%	0.026%

Sum of corrected areas: 52203527

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

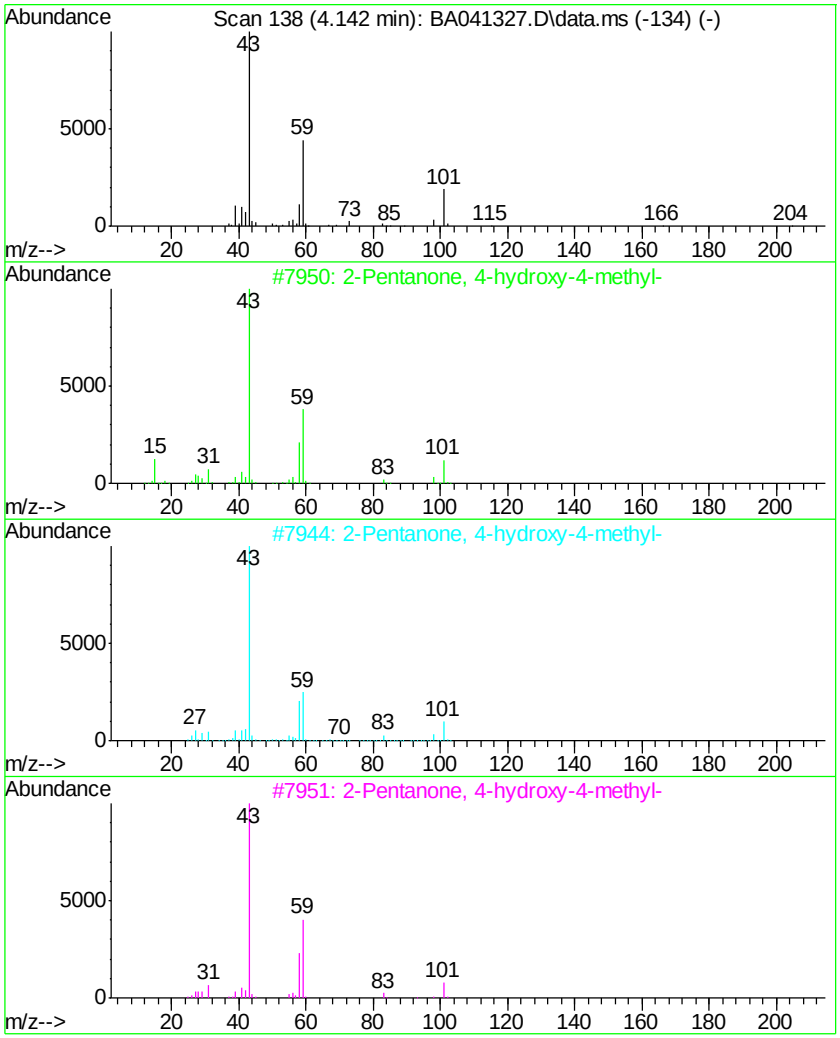
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

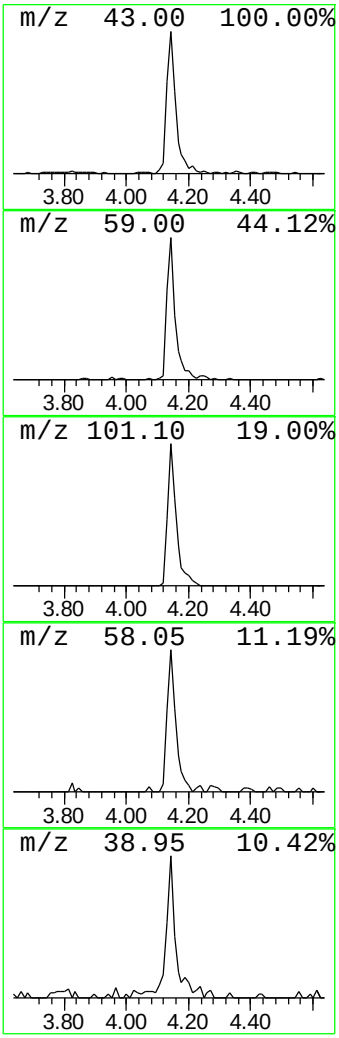
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.140	6.98 ng/ul	507068	1,4-Dichlorobenzene-d4	6.683

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
4	1,3,5-Pentanetriol, 3-methyl-	134	C6H14O3	007564-64-9	39
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

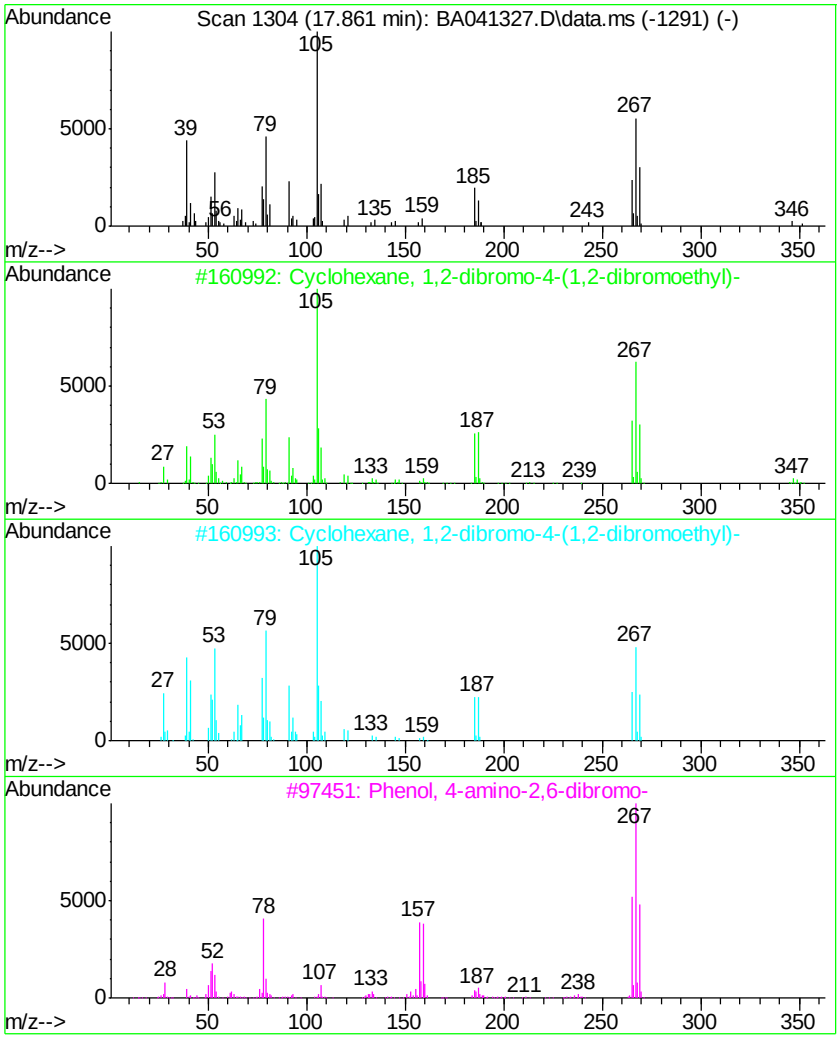
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

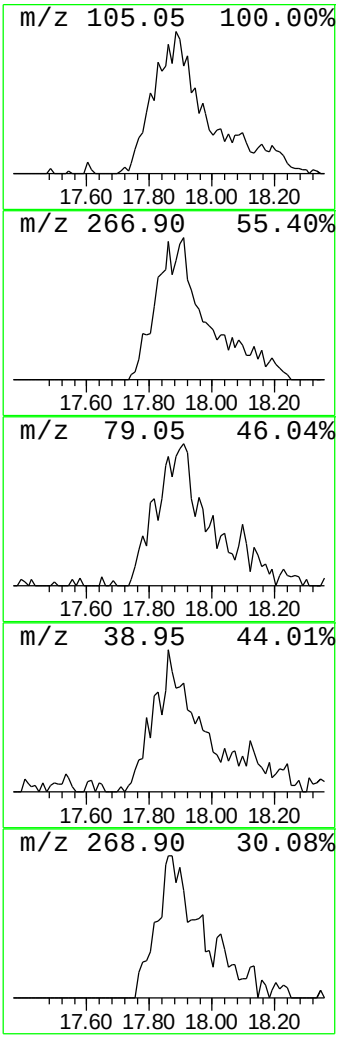
****

Peak Number 2 Cyclohexane, 1,2-dibromo-4-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.860	4.50 ng/ul	516170	Phenanthrene-d10	15.755

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dibromo-4-(1,2-...	424	C8H12Br4	003322-93-8	52
2	Cyclohexane, 1,2-dibromo-4-(1,2-...	424	C8H12Br4	003322-93-8	38
3	Phenol, 4-amino-2,6-dibromo-	265	C6H5Br2NO	000609-21-2	27
4	Phenol, 4-amino-2,6-dibromo-	265	C6H5Br2NO	000609-21-2	27
5	Carbamic acid, (.alpha.-methylbe...	269	C17H19NO2	032692-88-9	10





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

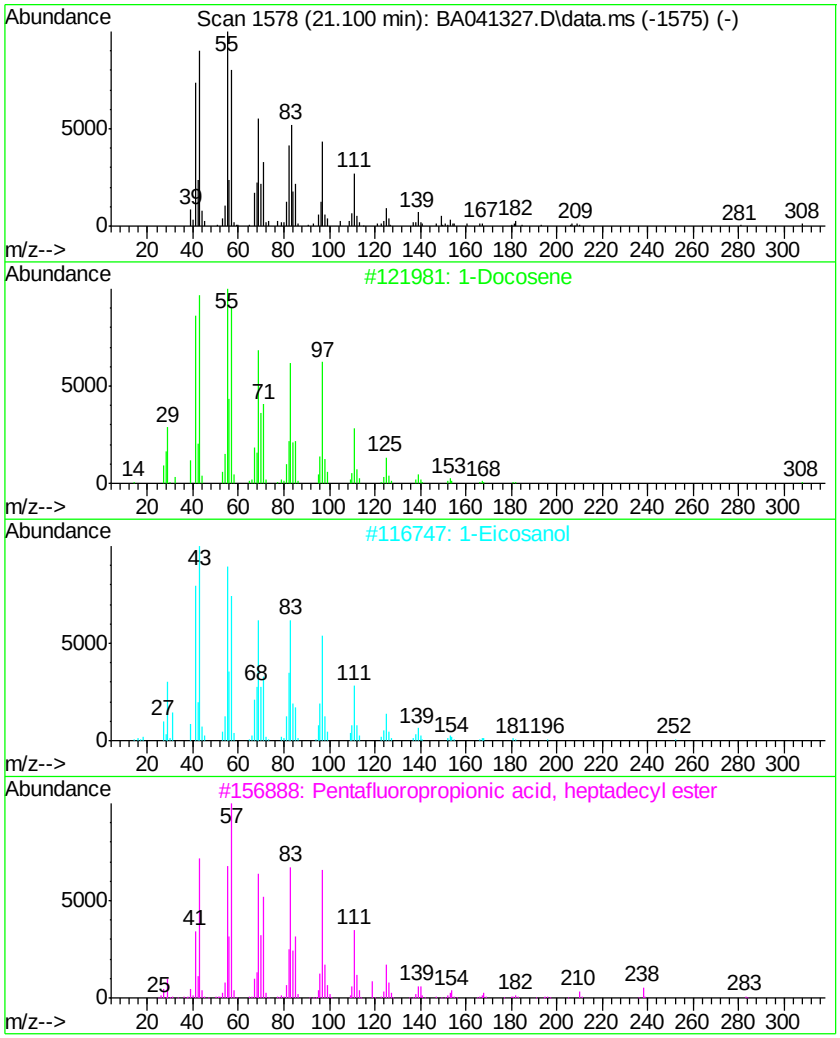
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

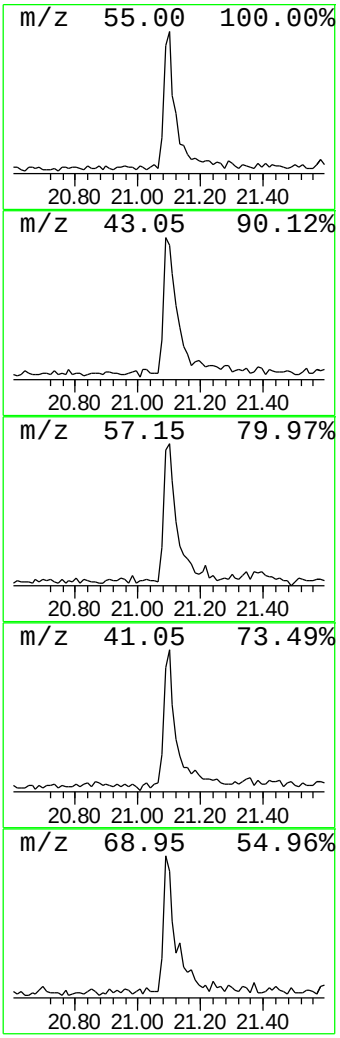
****

Peak Number 3 1-Docosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.100	14.19 ng/ul	1218500	Chrysene-d12	21.288

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	89
2	1-Eicosanol	298	C20H42O	000629-96-9	83
3	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	74
4	Trifluoroacetic acid, n-octadecy...	366	C20H37F3O2	079392-43-1	74
5	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	72





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

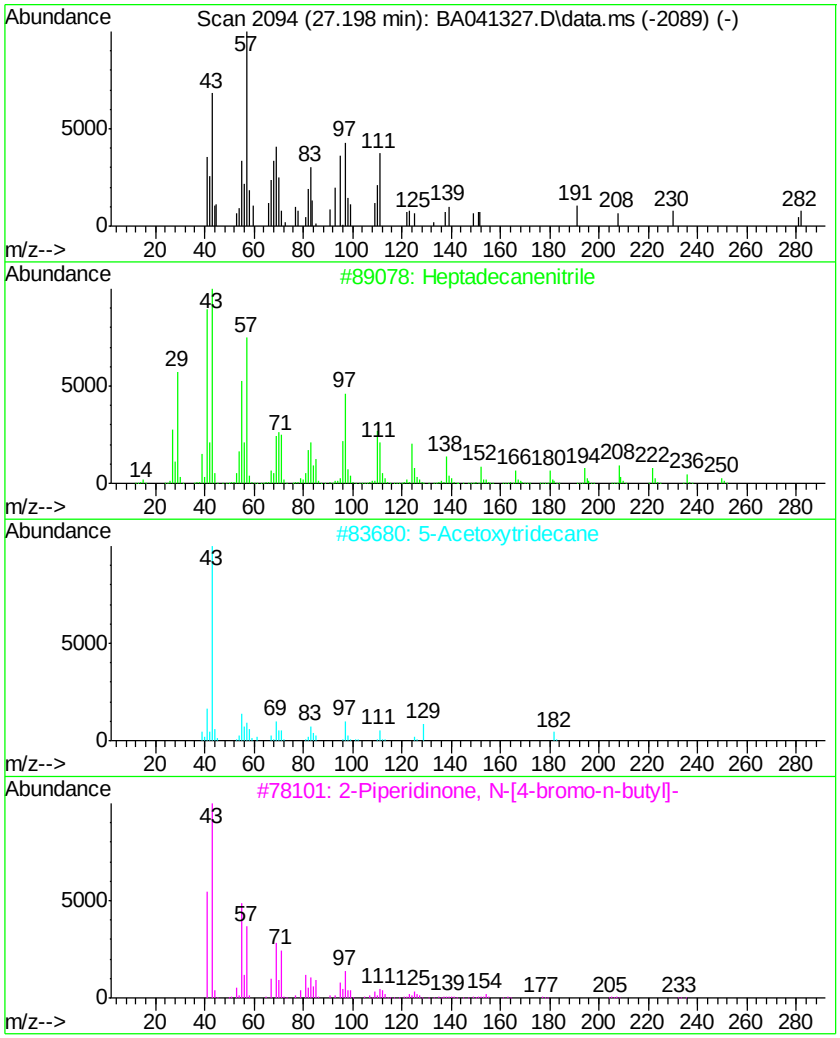
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

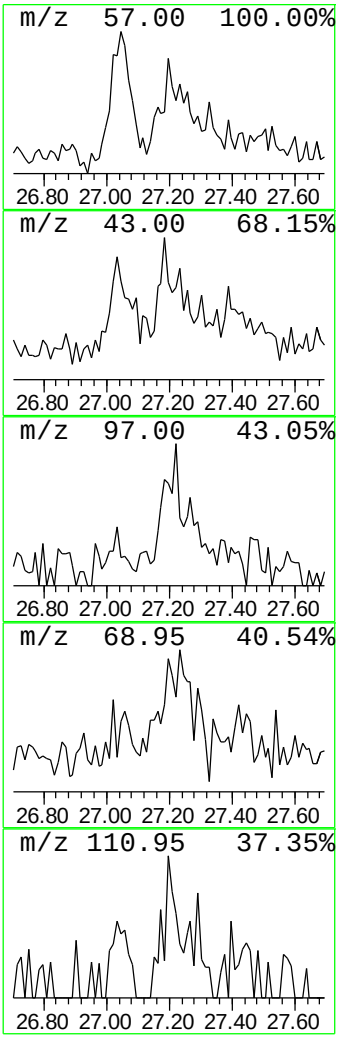
****

Peak Number 4 unknown27.20 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.200	2.20 ng/ul	155556	Perylene-d12	25.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecanenitrile	251	C17H33N	005399-02-0	38
2	5-Acetoxytridecane	242	C15H30O2	060826-29-1	22
3	2-Piperidinone, N-[4-bromo-n-but...	233	C9H16BrNO	195194-80-0	16
4	Cyclononanone, 2-hydroxy-	156	C9H16O2	000496-83-3	12
5	1-Methyl-2-aminomethylimidazole	111	C5H9N3	124312-73-8	12





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041327.D
Acq On : 20 Oct 2008 18:04
Operator : HNP
Sample : Z4923-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.140	7.0	ng/ul	507068	1	6.683	1452160	20.0
Cyclohexane, 1,...	17.860	4.5	ng/ul	516170	4	15.755	2296530	20.0
1-Docosene	21.100	14.2	ng/ul	1218500	5	21.288	1717870	20.0
unknown27.20	27.200	2.2	ng/ul	155556	6	25.074	1412400	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-05

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041349.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.66 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	64	J
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	180	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-05

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041349.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.66 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	66	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	210	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	160	J
218-01-9	Chrysene	230	
117-81-7	Bis(2-ethylhexyl)phthalate	45	JB
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	150	J
207-08-9	Benzo(k)fluoranthene	63	J
50-32-8	Benzo(a)pyrene	200	
193-39-5	Indeno(1,2,3-cd)pyrene	58	J
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	85	J
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC4-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-05

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041349.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.66 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

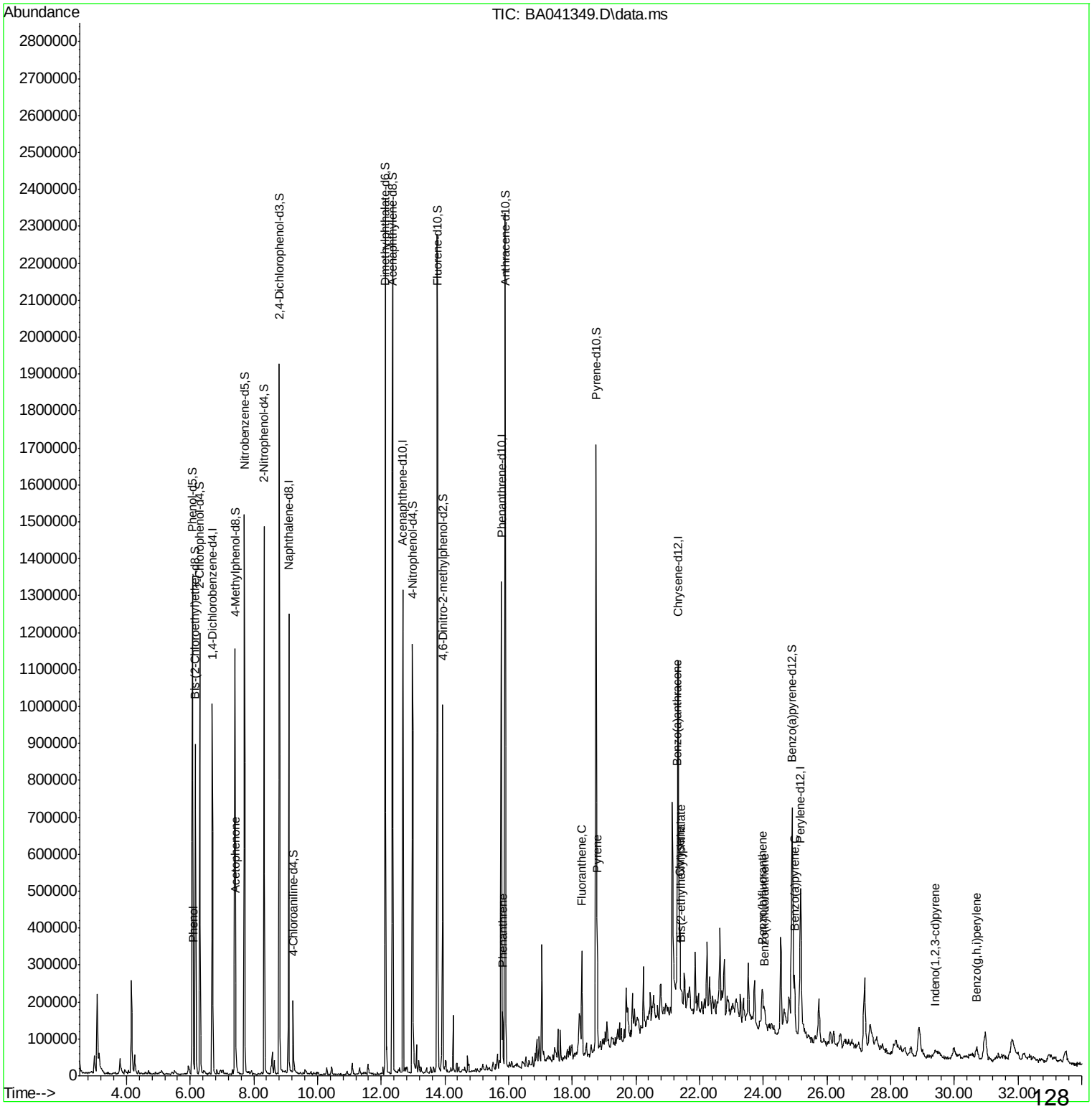
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	79-39-0	Methacrylamide	3.07	240	JN
02.		unknown3.14	3.14	85	J
03.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.15	230	JN
04.	544-63-8	Tetradecanoic acid	17.05	160	JN
05.	120-46-7	1,3-Propanedione, 1,3-diphenyl-	18.22	91	JN
06.	3353-12-6	Pyrene, 4-methyl-	19.70	100	JN
07.	3442-78-2	Pyrene, 2-methyl-	19.90	92	JN
08.	1235-74-1	1-Phenanthrenecarboxylic acid,	20.24	130	JN
09.	205-43-6	Benzo[b]naphtho[1,2-d]thiophene	20.78	120	JN
10.	6971-40-0	17-Pentatriacontene	21.15	590	JN
11.	544-76-3	Hexadecane	21.86	120	JN
12.	593-45-3	Octadecane	22.64	130	JN
13.	112-95-8	Eicosane	23.53	180	JN
14.	7683-64-9	Squalene	23.73	190	JN
15.	112-95-8	Eicosane	24.55	360	JN
16.	55162-61-3	Tetracontane, 3,5,24-trimethyl-	25.74	210	JN
17.	62016-79-9	Heptacosane, 1-chloro-	27.18	380	JN
18.	629-62-9	Pentadecane	30.98	210	JN
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

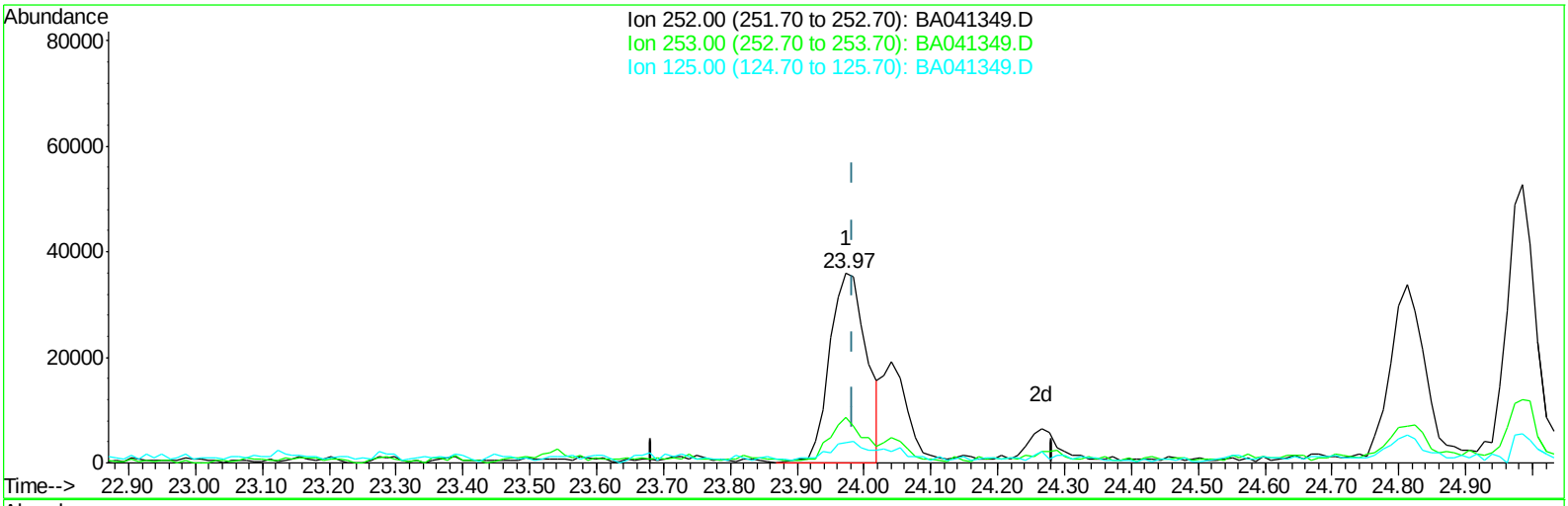
Quant Time: Oct 21 12:46:20 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

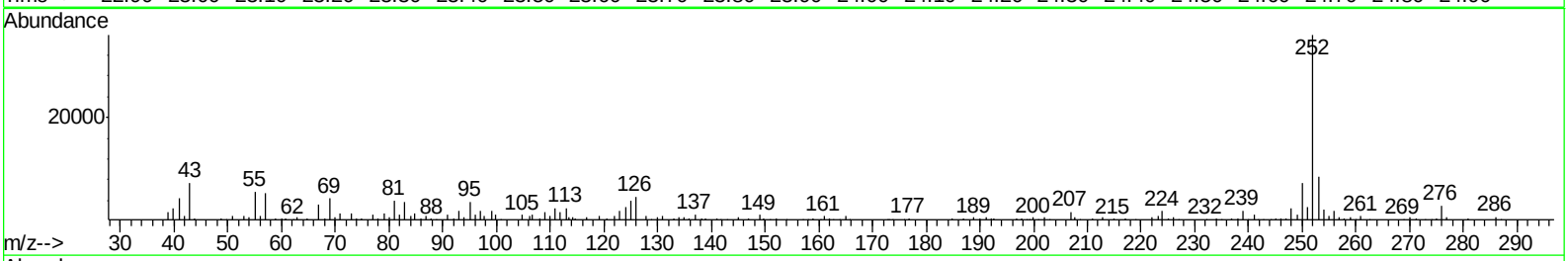


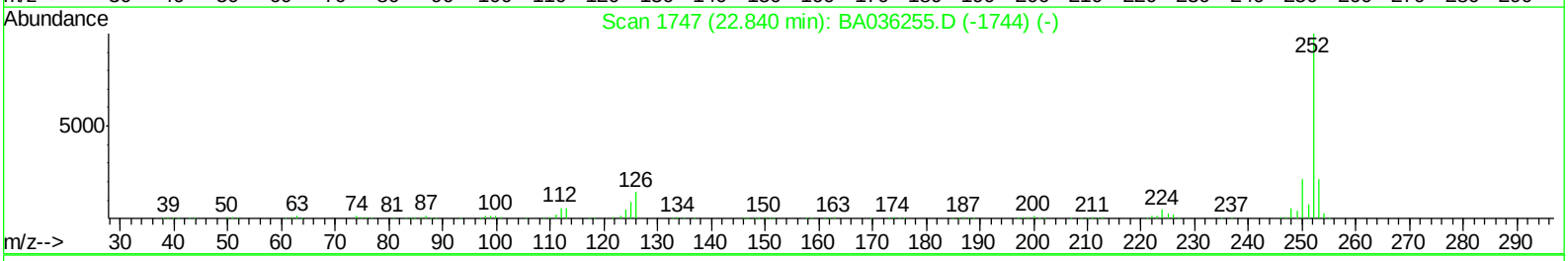
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 21 12:43:50 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041349.D

(84) Benzo(k)fluoranthene

23.973min (-0.009) 4.59ng/ul

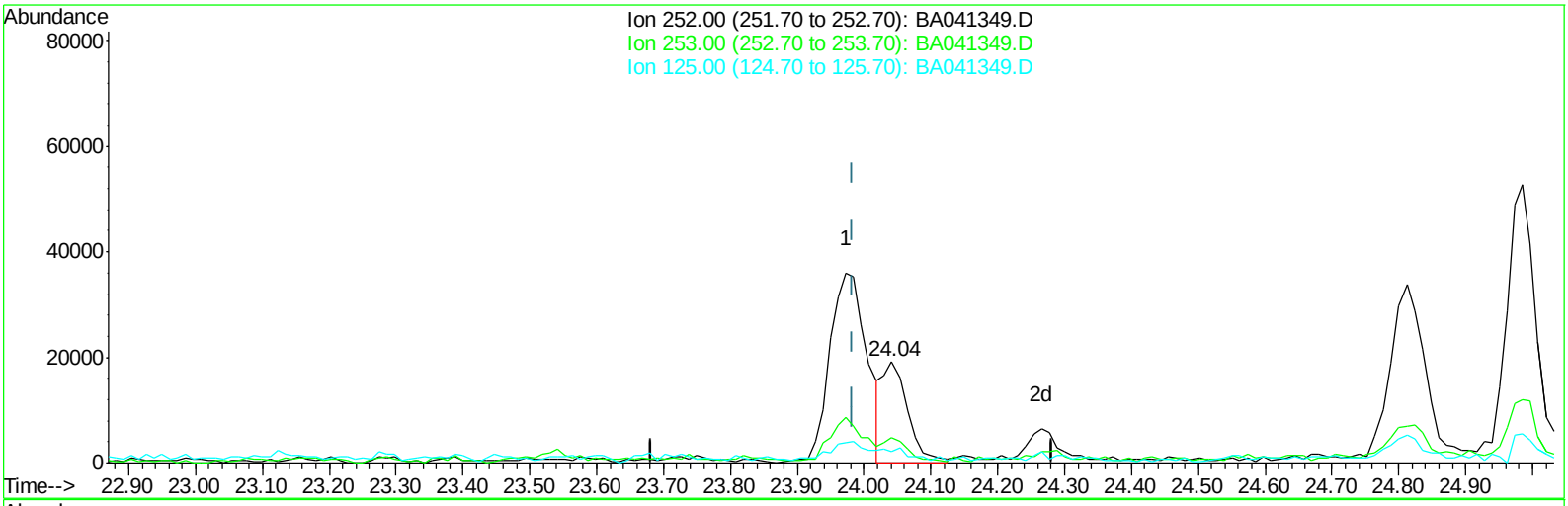
response 141414

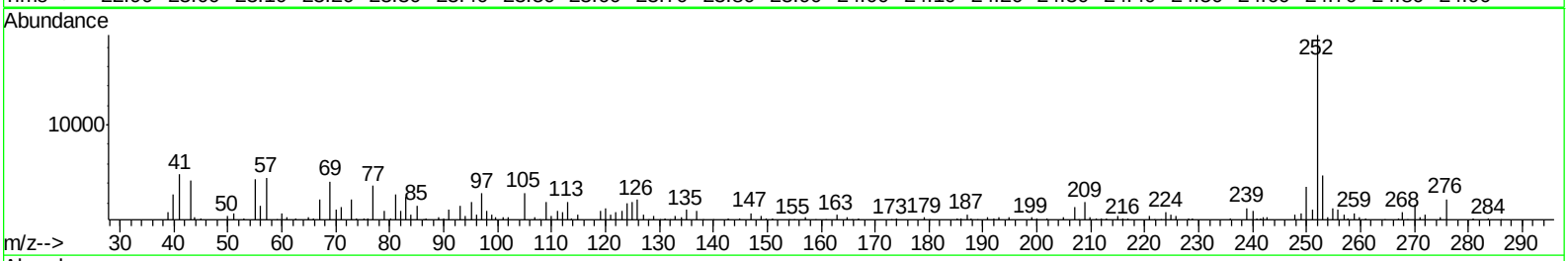
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	23.92
125.00	4.40	10.90#
0.00	0.00	0.00

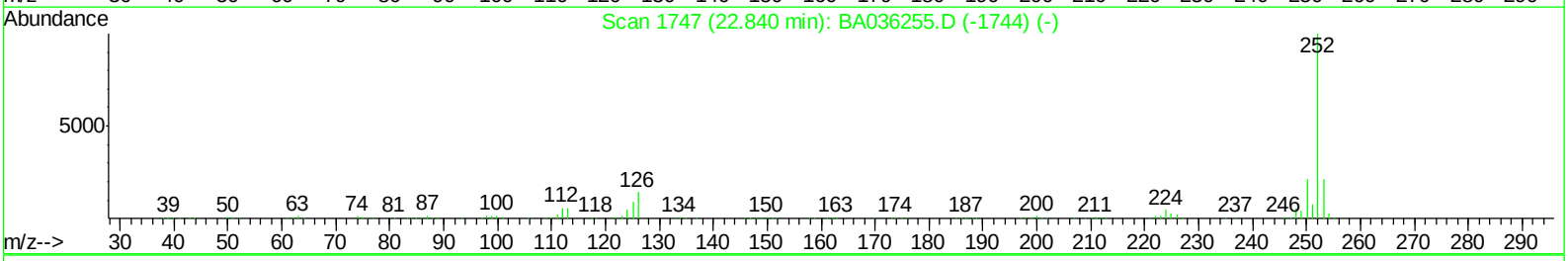
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 21 12:43:50 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041349.D

(84) Benzo(k)fluoranthene

24.041min (+0.059) 1.62ng/ul m

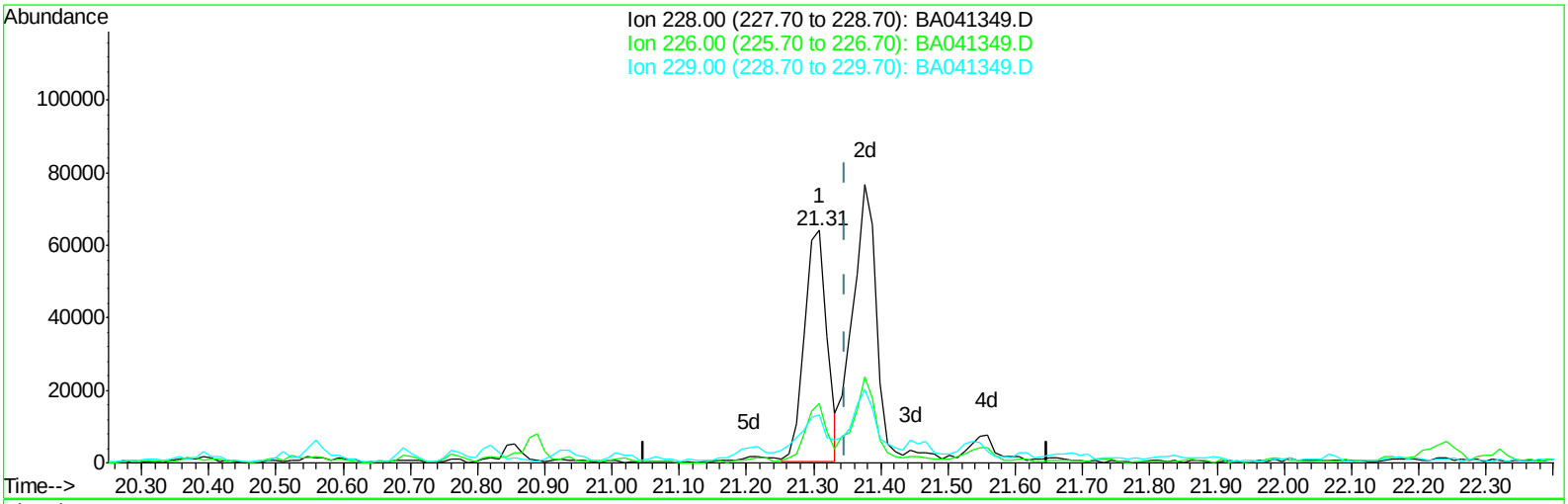
response 49995

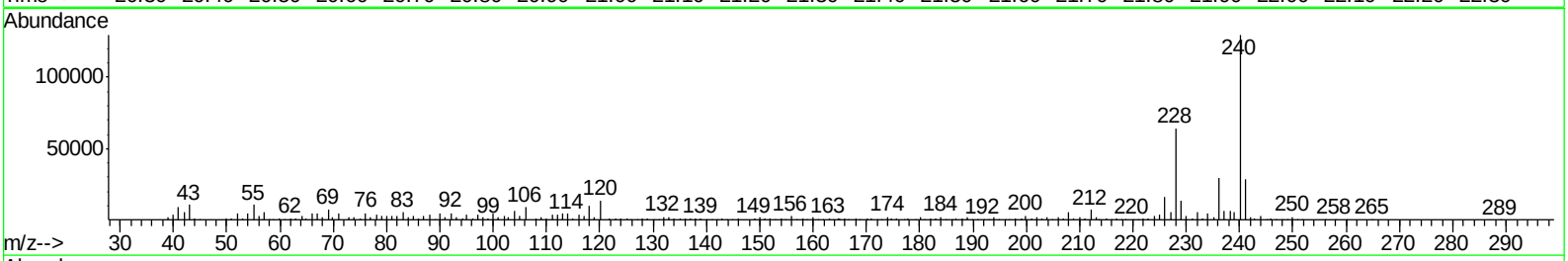
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	24.92
125.00	4.40	10.87#
0.00	0.00	0.00

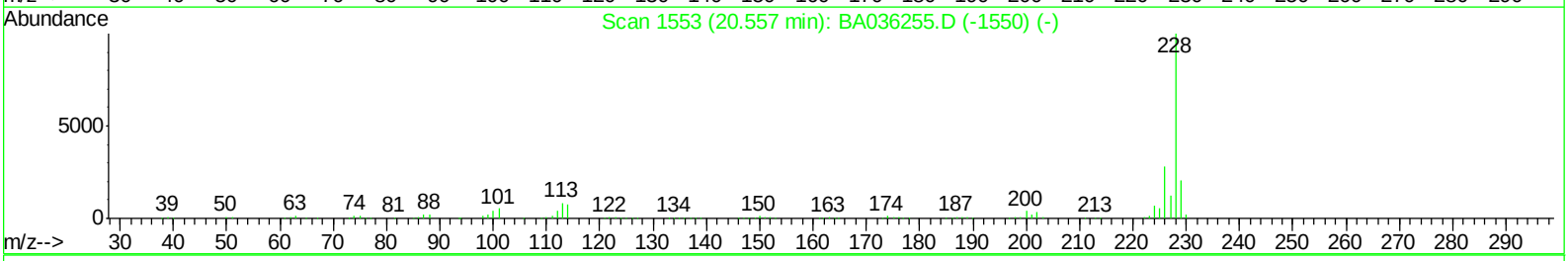
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 21 12:43:50 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041349.D

(80) Chrysene

21.308min (-0.039) 4.71ng/ul

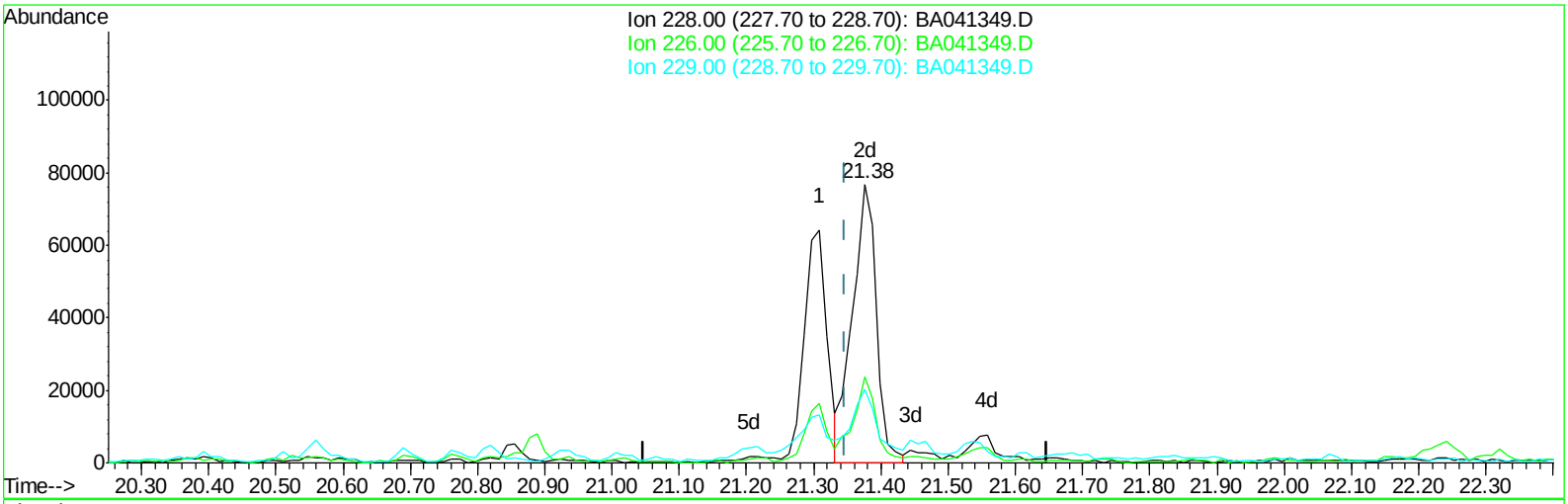
response 150396

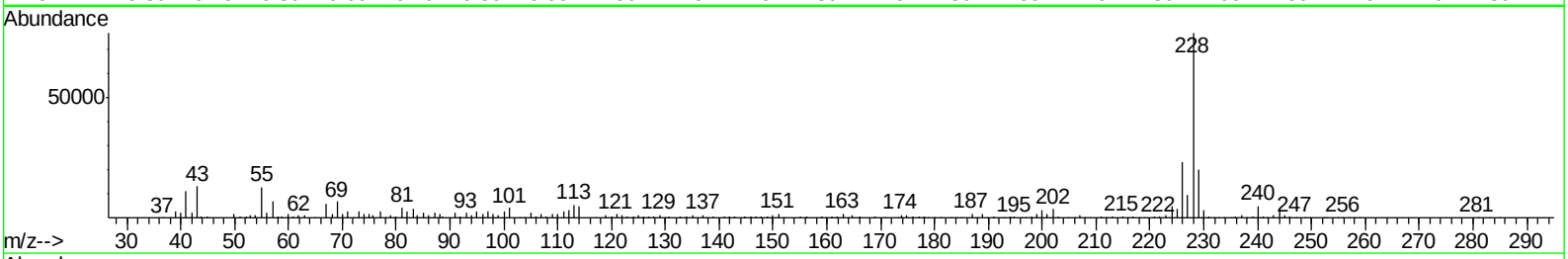
Ion	Exp%	Act%
228.00	100	100
226.00	25.80	25.49
229.00	18.00	20.78
0.00	0.00	0.00

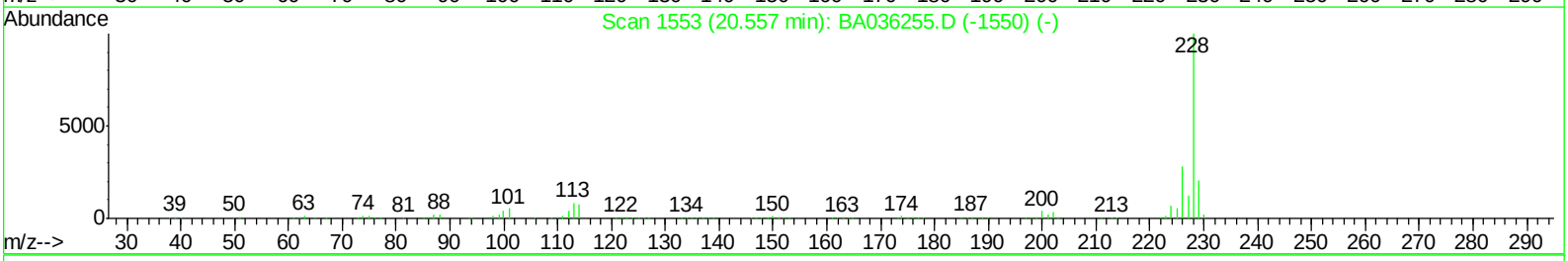
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 21 12:43:50 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







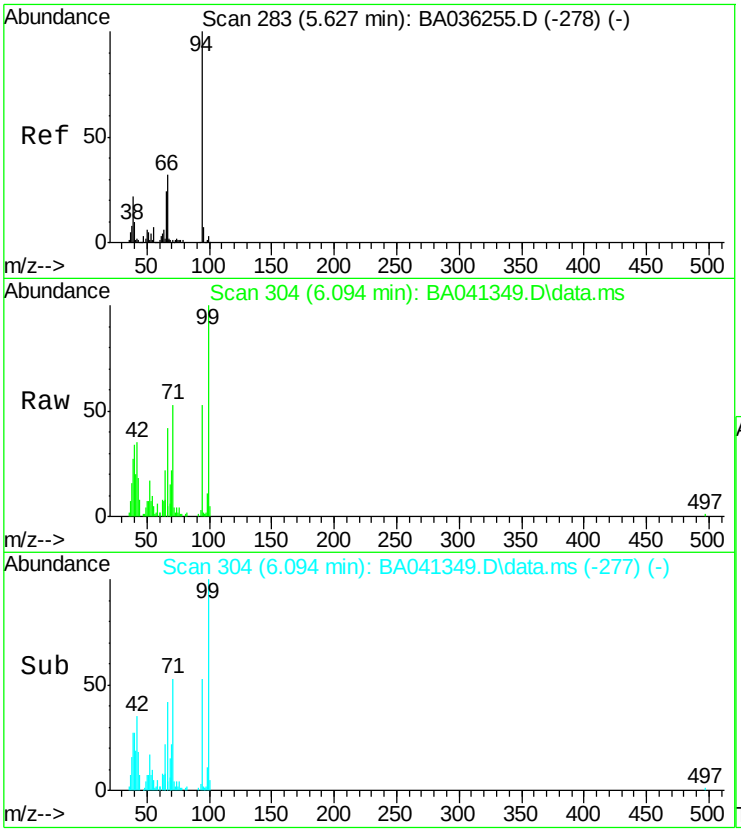
TIC: BA041349.D

(80) Chrysene

21.376min (+0.029) 5.98ng/ul m

response 190702

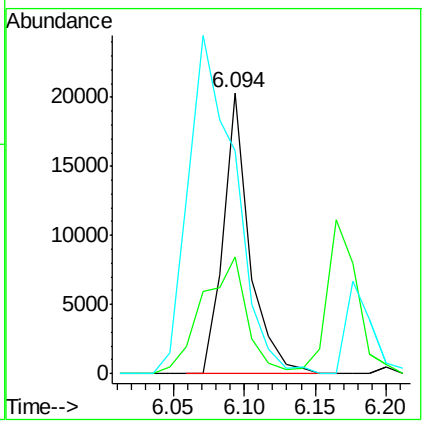
Ion	Exp%	Act%
228.00	100	100
226.00	25.80	30.70
229.00	18.00	26.18#
0.00	0.00	0.00

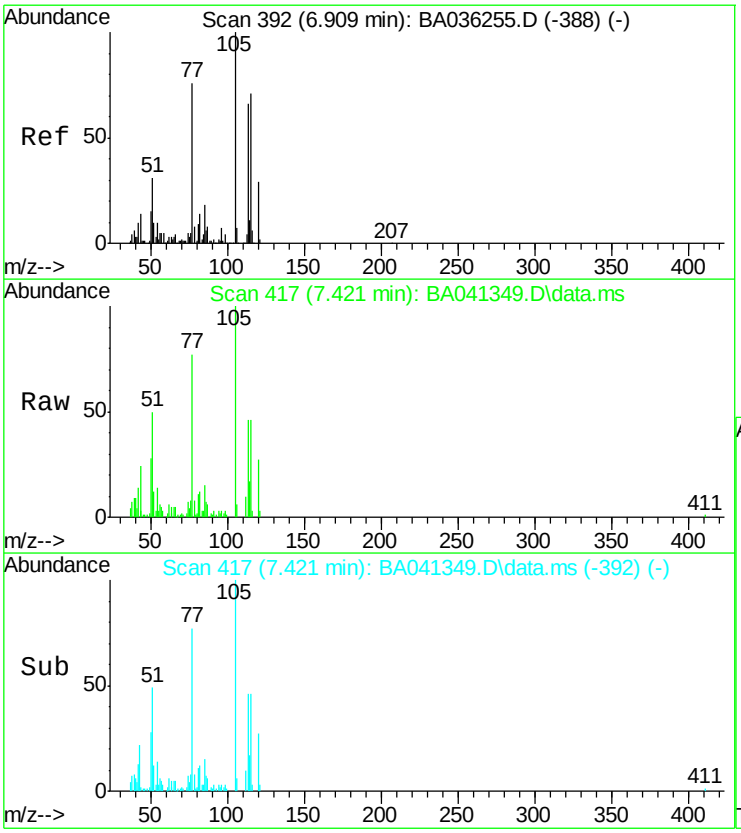


#4
Phenol
Concen: 1.63 ng/ul
RT: 6.094 min Scan# 304
Delta R.T. 0.012 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion: 94 Resp: 26592

Ion	Ratio	Lower	Upper
94	100		
65	41.5	29.0	43.6
66	79.6	53.7	80.5

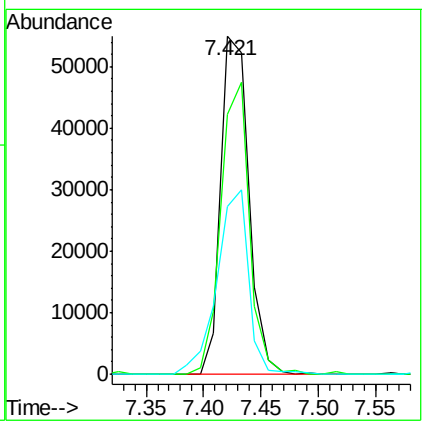


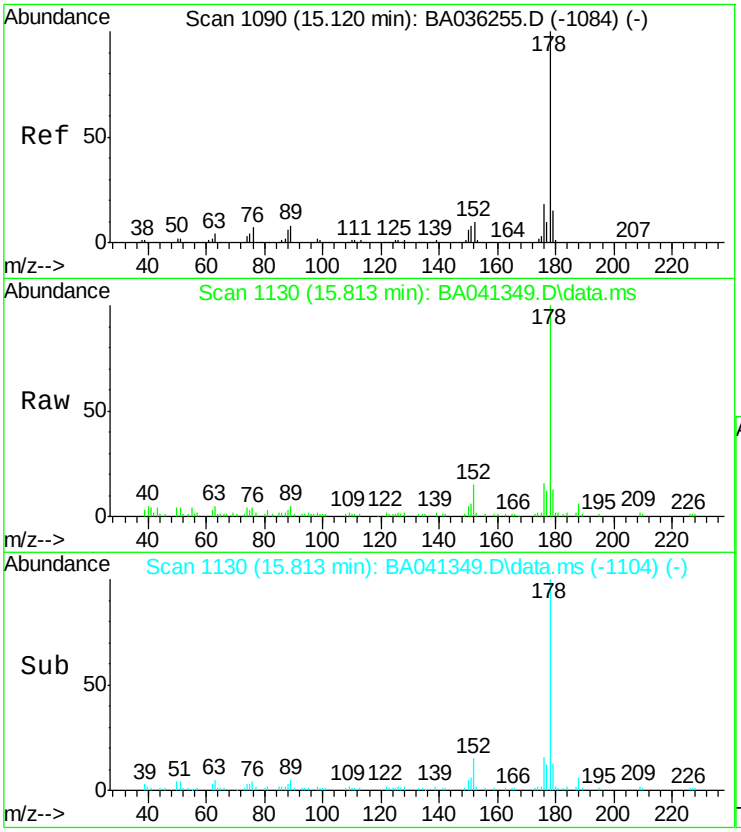


#12
Acetophenone
Concen: 4.64 ng/ul
RT: 7.421 min Scan# 417
Delta R.T. -0.002 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:105 Resp: 92776

Ion	Ratio	Lower	Upper
105	100		
77	77.0	69.4	104.2
51	49.7	42.1	63.1

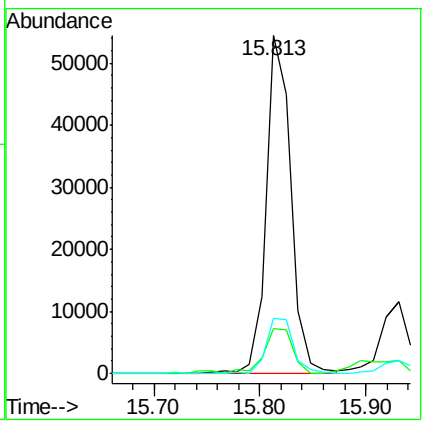


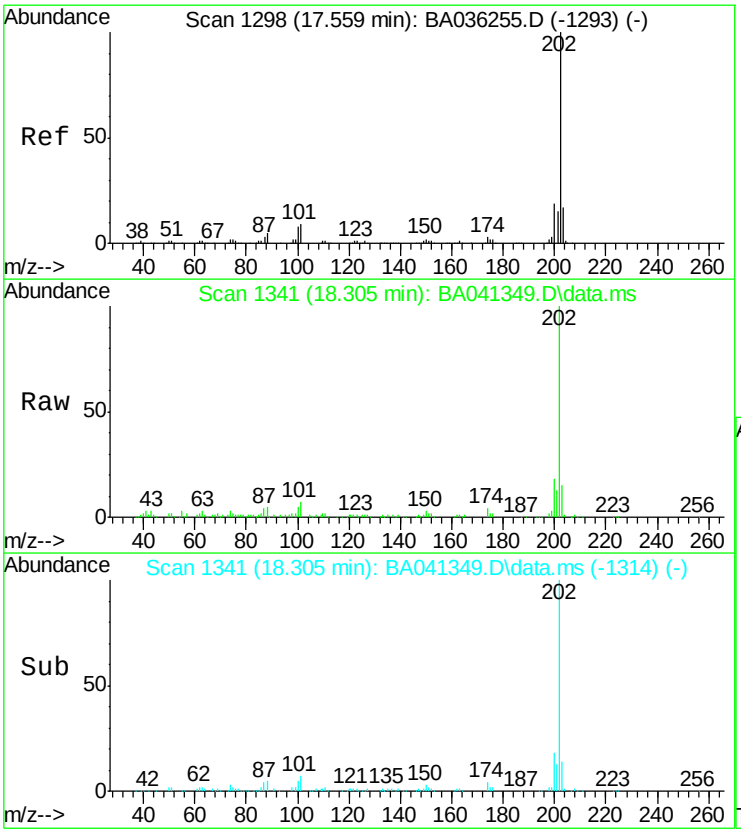


#67
Phenanthrene
Concen: 1.69 ng/ul
RT: 15.813 min Scan# 1130
Delta R.T. 0.011 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:178 Resp: 89455

Ion	Ratio	Lower	Upper
178	100		
179	13.4	12.0	18.0
176	16.2	14.8	22.2

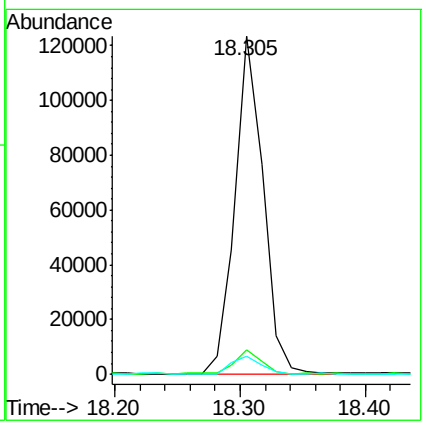


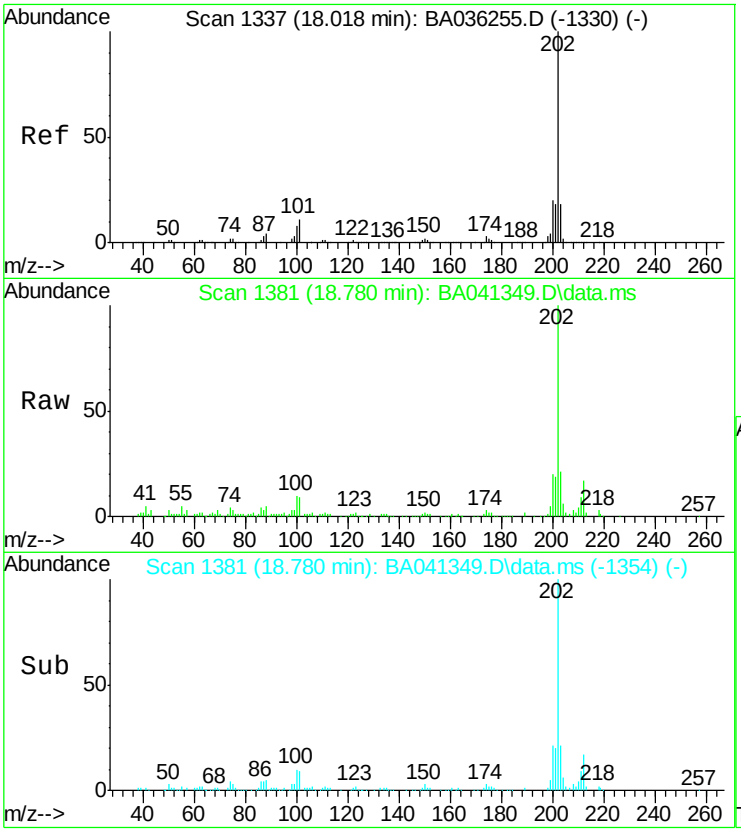


#72
Fluoranthene
Concen: 3.07 ng/ul
RT: 18.305 min Scan# 1341
Delta R.T. 0.020 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:202 Resp: 192861

Ion	Ratio	Lower	Upper
202	100		
101	7.2	2.6	4.0#
100	5.4	2.9	4.3#

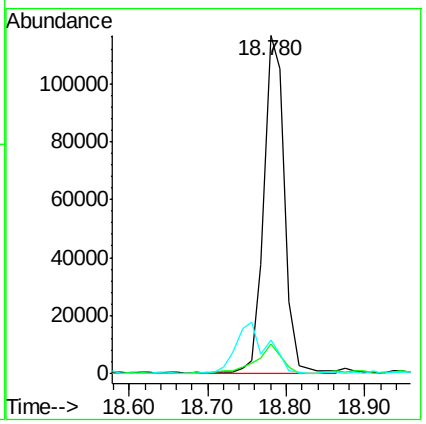


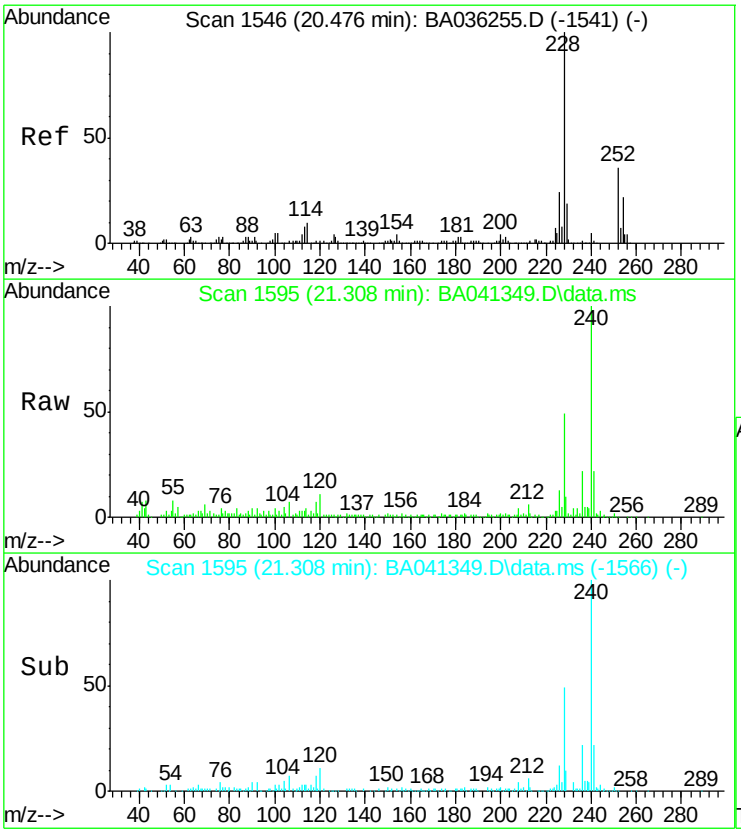


#75
Pyrene
Concen: 5.43 ng/ul
RT: 18.780 min Scan# 1381
Delta R.T. 0.023 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:202 Resp: 213516

Ion	Ratio	Lower	Upper
202	100		
101	8.9	3.5	5.3#
100	10.0	3.4	5.0#

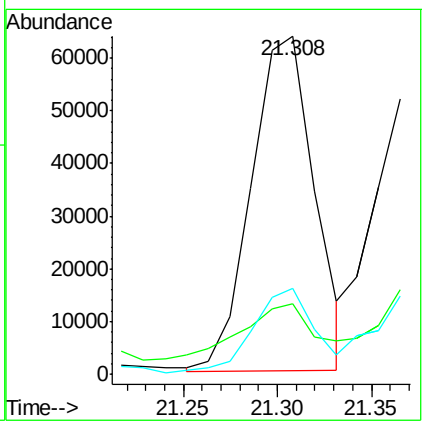


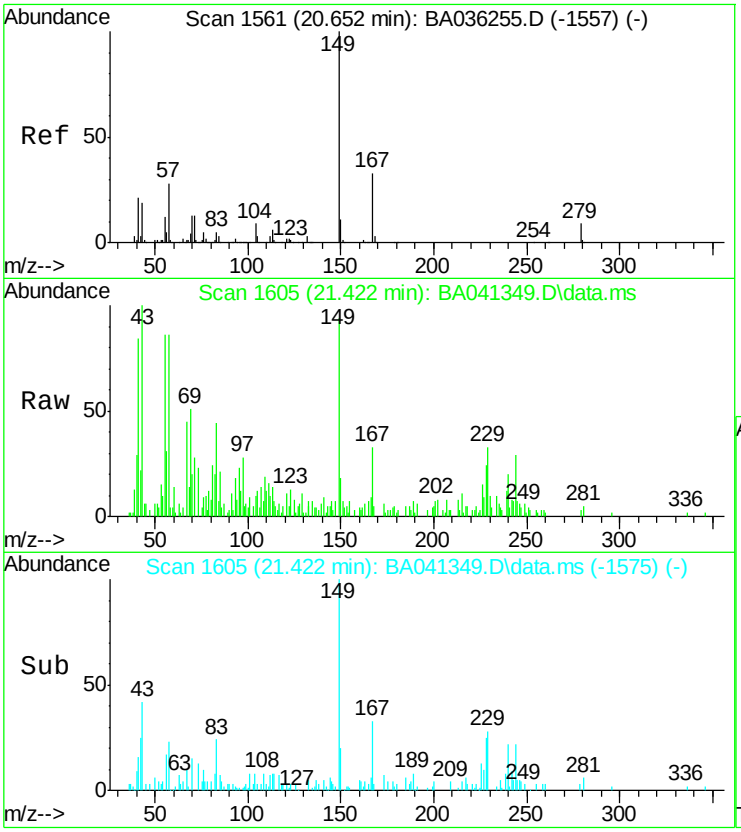


#78
Benzo(a)anthracene
Concen: 3.97 ng/ul
RT: 21.308 min Scan# 1595
Delta R.T. 0.043 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:228 Resp: 149078

Ion	Ratio	Lower	Upper
228	100		
229	20.8	15.9	23.9
226	25.5	20.2	30.2

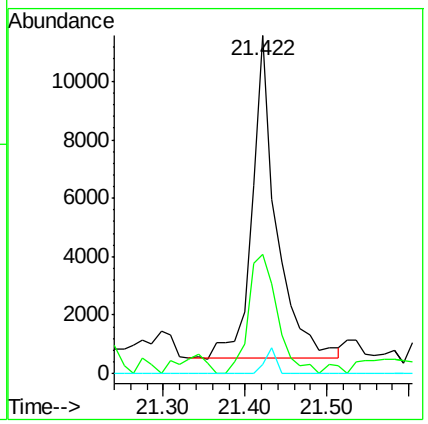


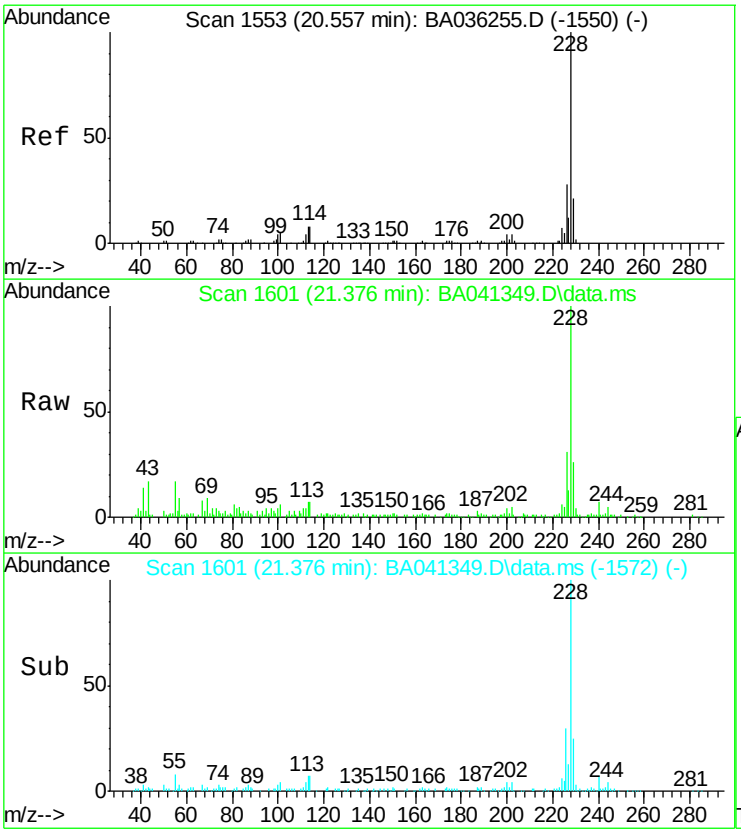


#79
Bis(2-ethylhexyl)phthalate
Concen: 1.15 ng/ul
RT: 21.422 min Scan# 1605
Delta R.T. 0.038 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:149 Resp: 22837

Ion	Ratio	Lower	Upper
149	100		
167	35.3	26.2	39.4
279	2.7	7.7	11.5#

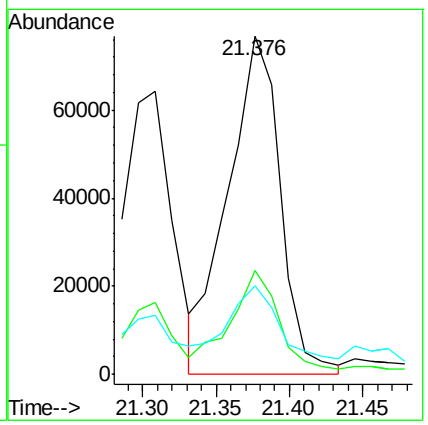


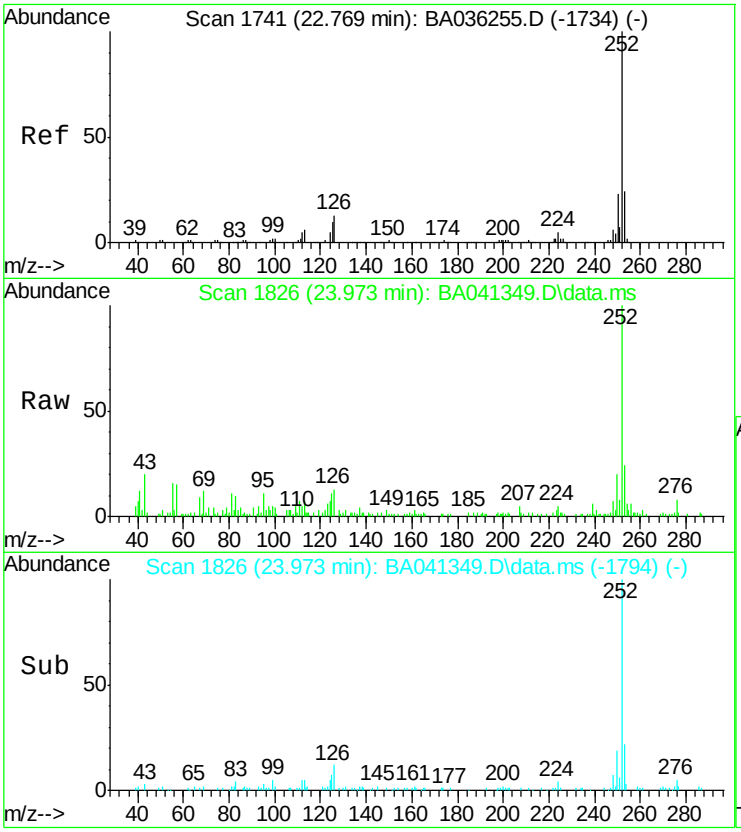


#80
Chrysene
Concen: 5.98 ng/ul m
RT: 21.376 min Scan# 1601
Delta R.T. 0.029 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:228 Resp: 190702

Ion	Ratio	Lower	Upper
228	100		
226	30.7	20.6	31.0
229	26.2	14.4	21.6#

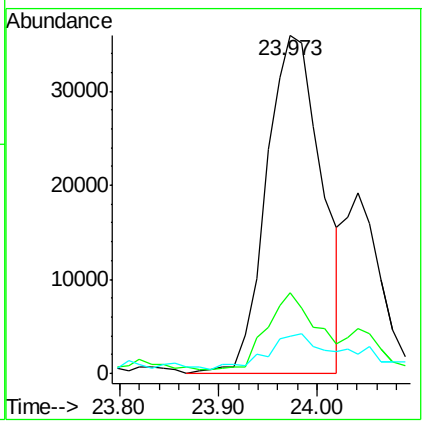


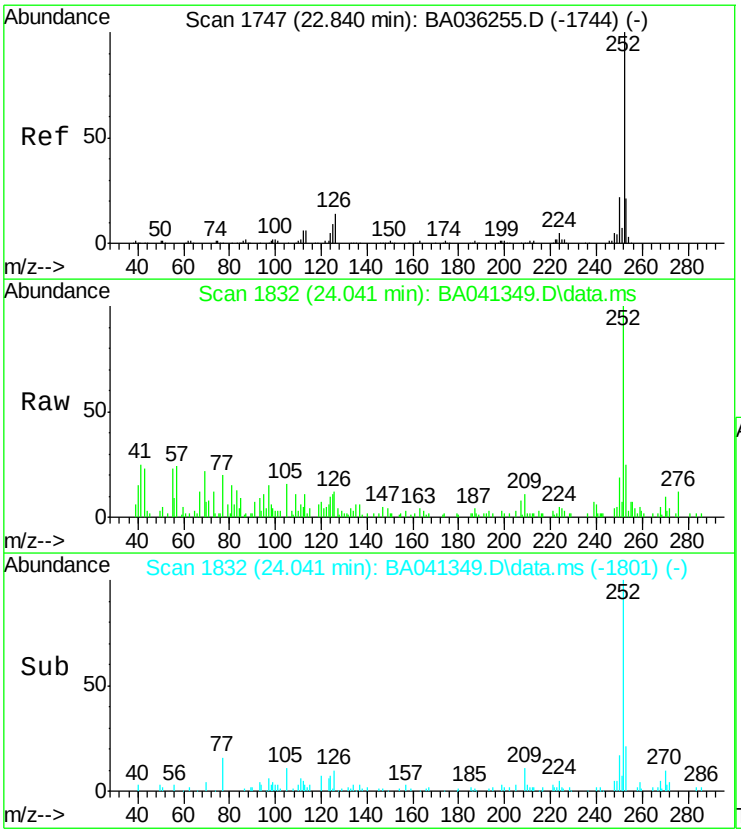


#83
Benzo(b)fluoranthene
Concen: 3.91 ng/ul
RT: 23.973 min Scan# 1826
Delta R.T. 0.074 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:252 Resp: 141414

Ion	Ratio	Lower	Upper
252	100		
253	23.9	16.2	24.2
125	10.9	4.1	6.1#

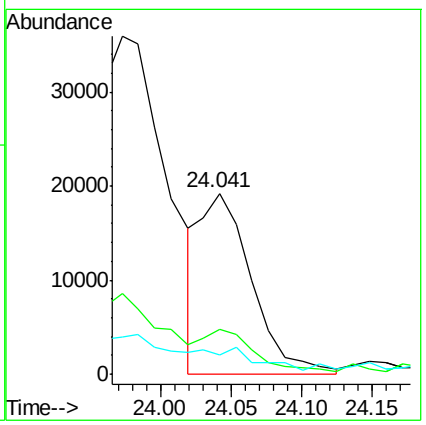


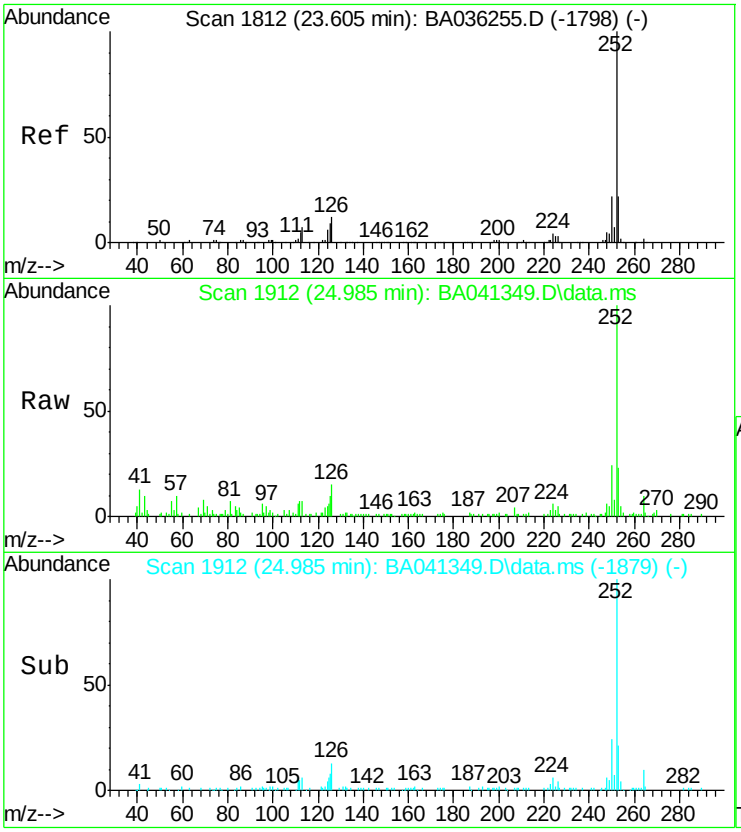


#84
Benzo(k)fluoranthene
Concen: 1.62 ng/ul m
RT: 24.041 min Scan# 1832
Delta R.T. 0.059 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:252 Resp: 49995

Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.2	27.4
125	10.9	3.5	5.3#

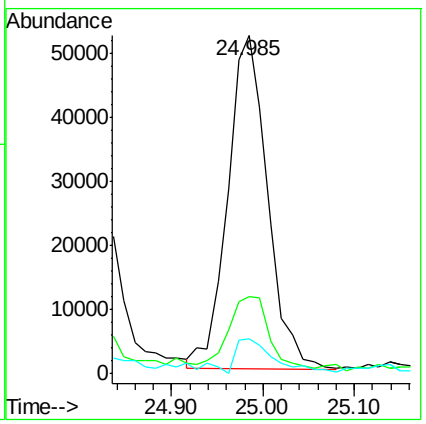


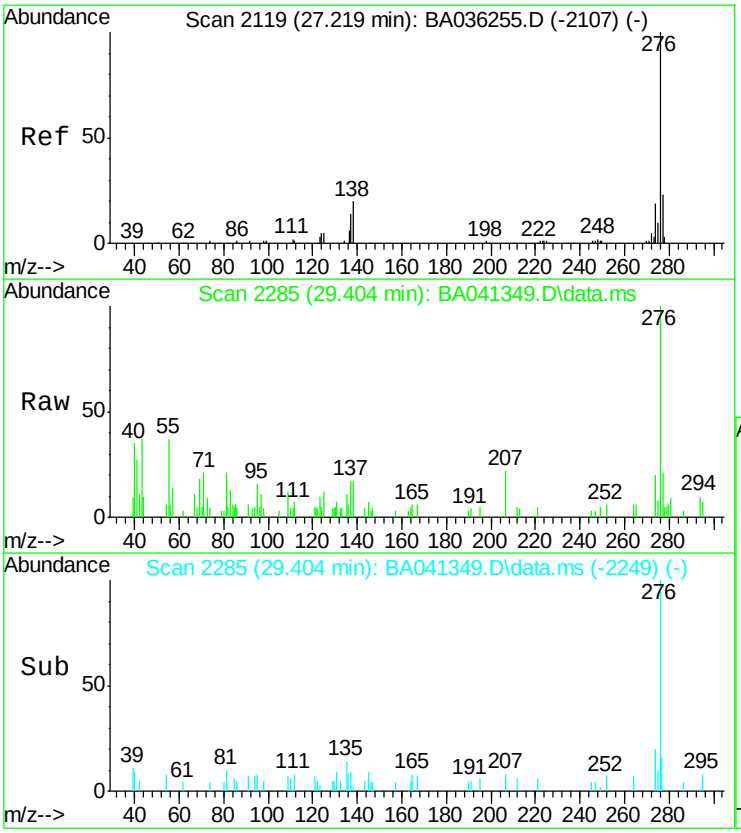


#86
Benzo(a)pyrene
Concen: 5.10 ng/ul
RT: 24.985 min Scan# 1912
Delta R.T. 0.086 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:252 Resp: 159147

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.1	22.7#
125	10.3	3.4	5.2#

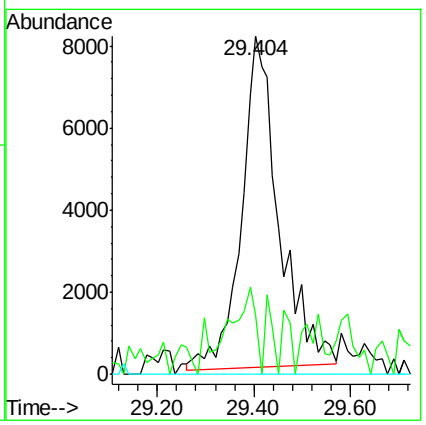


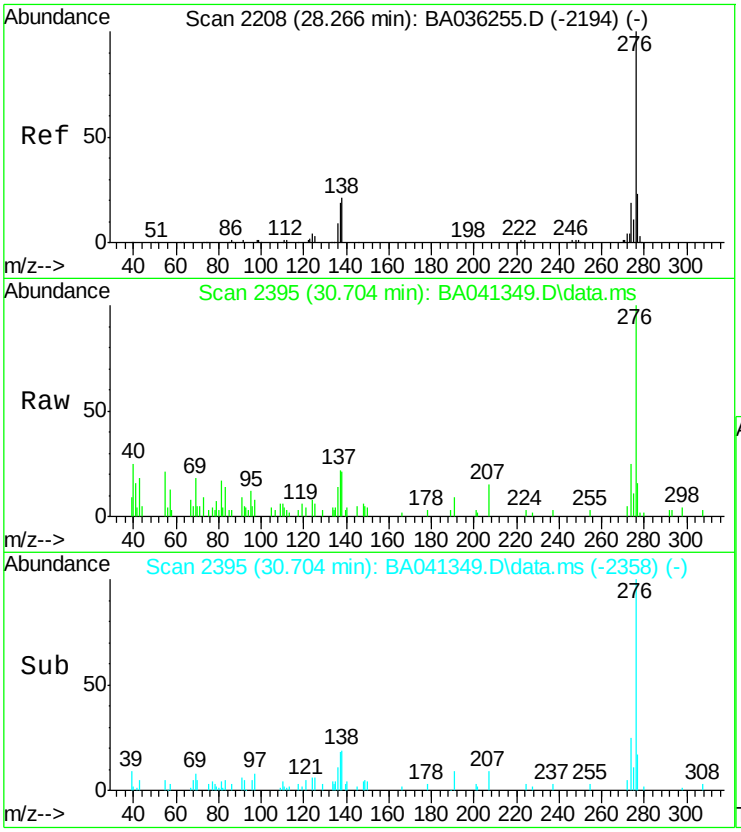


#87
Indeno(1,2,3-cd)pyrene
Concen: 1.48 ng/ul
RT: 29.404 min Scan# 2285
Delta R.T. 0.126 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:276 Resp: 43314

Ion	Ratio	Lower	Upper
276	100		
138	17.4	8.2	12.2#
227	0.0	0.0	0.0

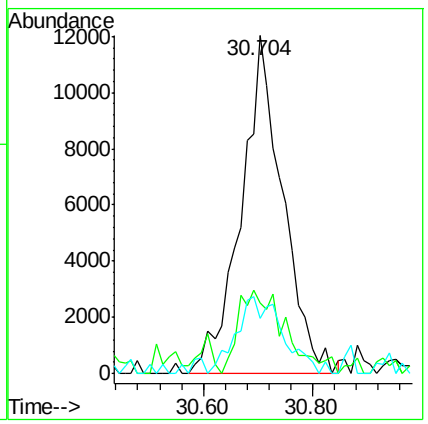




#89
Benzo(g,h,i)perylene
Concen: 2.17 ng/ul
RT: 30.704 min Scan# 2395
Delta R.T. 0.140 min
Lab File: BA041349.D
Acq: 21 Oct 2008 9:16

Tgt Ion:276 Resp: 64200

Ion	Ratio	Lower	Upper
276	100		
138	20.9	10.6	16.0#
277	16.5	20.2	30.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 21 12:46:20 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.694	152	248608	20.00	ng/ul	0.01
16) Naphthalene-d8	9.095	136	822746	20.00	ng/ul	0.01
33) Acenaphthene-d10	12.679	164	552036	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.778	188	1037107	20.00	ng/ul	0.02
73) Chrysene-d12	21.331	240	708665	20.00	ng/ul	0.04
81) Perylene-d12	25.173	264	554362	20.00	ng/ul	0.10
System Monitoring Compounds						
3) Phenol-d5	6.071	99	539924	35.87	ng/ul	0.01
5) Bis-(2-Chloroethyl)eth...	6.165	67	361227	35.40	ng/ul	0.01
7) 2-Chlorophenol-d4	6.306	132	471751	36.88	ng/ul	0.01
11) 4-Methylphenol-d8	7.409	113	322360	31.57	ng/ul	0.02
17) Nitrobenzene-d5	7.704	128	261285	35.87	ng/ul	0.01
20) 2-Nitrophenol-d4	8.328	143	306723	34.21	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.800	165	530060	31.95	ng/ul	0.01
27) 4-Chloroaniline-d4	9.237	131	85678	5.22	ng/ul	0.01
41) Dimethylphthalate-d6	12.136	166	1438167	39.12	ng/ul	0.02
44) Acenaphthylene-d8	12.360	160	1658629	37.11	ng/ul	0.02
49) 4-Nitrophenol-d4	12.986	143	297097	39.65	ng/ul	0.02
55) Fluorene-d10	13.765	176	1039910	35.17	ng/ul	0.02
60) 4,6-Dinitro-2-methylph...	13.930	200	225905	21.05	ng/ul	0.01
68) Anthracene-d10	15.896	188	1518396	30.58	ng/ul	0.03
74) Pyrene-d10	18.756	212	1181125	38.14	ng/ul	0.04
85) Benzo(a)pyrene-d12	24.917	264	806027	26.70	ng/ul	0.10
Target Compounds						Qvalue
4) Phenol	6.094	94	26592	1.63	ng/ul	87
12) Acetophenone	7.421	105	92776	4.64	ng/ul	92
67) Phenanthrene	15.813	178	89455	1.69	ng/ul	95
72) Fluoranthene	18.305	202	192861	3.07	ng/ul#	91
75) Pyrene	18.780	202	213516	5.43	ng/ul#	85
78) Benzo(a)anthracene	21.308	228	149078	3.97	ng/ul	99
79) Bis(2-ethylhexyl)phtha...	21.422	149	22837	1.15	ng/ul#	92
80) Chrysene	21.376	228	190702m	5.98	ng/ul	
83) Benzo(b)fluoranthene	23.973	252	141414	3.91	ng/ul#	90
84) Benzo(k)fluoranthene	24.041	252	49995m	1.62	ng/ul	
86) Benzo(a)pyrene	24.985	252	159147	5.10	ng/ul#	90
87) Indeno(1,2,3-cd)pyrene	29.404	276	43314	1.48	ng/ul#	81
89) Benzo(g,h,i)perylene	30.704	276	64200	2.17	ng/ul#	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041349.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.990	36	40	44	rBV	48369	119705	3.04%	0.186%
2	3.072	44	47	51	rVV	213027	487519	12.38%	0.757%
3	3.143	51	53	65	rVB	54421	176455	4.48%	0.274%
4	3.801	98	109	116	rBV2	41698	134464	3.41%	0.209%
5	3.942	118	121	126	rVV3	13159	39489	1.00%	0.061%
6	4.154	135	139	145	rVV	254940	484492	12.30%	0.753%
7	4.260	145	148	155	rVV	52728	125604	3.19%	0.195%
8	4.378	155	158	161	rVB2	12028	27627	0.70%	0.043%
9	5.507	250	254	262	rVB4	10060	40536	1.03%	0.063%
10	5.942	288	291	298	rVV4	22978	66568	1.69%	0.103%
11	6.071	298	302	307	rVV	1348014	2246965	57.05%	3.490%
12	6.165	307	310	318	rVB	893394	1484163	37.68%	2.305%
13	6.306	318	322	327	rBV	1193543	2107246	53.50%	3.273%
14	6.694	352	355	363	rBV	1002977	1620221	41.14%	2.517%
15	6.952	373	377	381	rVV5	10793	39214	1.00%	0.061%
16	7.023	381	383	387	rVV3	10381	27910	0.71%	0.043%
17	7.397	412	415	421	rBV2	1150889	2334427	59.27%	3.626%
18	7.704	438	441	444	rBV	1512736	2202505	55.92%	3.421%
19	7.928	456	460	463	rVB5	11100	30406	0.77%	0.047%
20	8.328	490	494	497	rBV	1482977	2051639	52.09%	3.187%
21	8.588	510	516	519	rBV	60036	155154	3.94%	0.241%
22	8.647	519	521	524	rBV2	35041	50054	1.27%	0.078%
23	8.800	531	534	537	rBV	1922770	2703475	68.64%	4.200%
24	9.095	555	559	562	rBV	1241532	1834479	46.58%	2.850%
25	9.237	568	571	580	rVB	197378	345511	8.77%	0.537%
26	10.282	658	660	664	rVB	19210	32958	0.84%	0.051%
27	10.447	669	674	679	rBV4	22837	46783	1.19%	0.073%
28	11.092	724	729	733	rVV2	31974	71171	1.81%	0.111%
29	11.326	745	749	754	rVV3	18714	47579	1.21%	0.074%
30	11.584	768	771	777	rBV5	28087	65095	1.65%	0.101%
31	12.065	809	812	814	rVB2	20491	29675	0.75%	0.046%
32	12.136	814	818	820	rBV	2372035	3585120	91.02%	5.569%
33	12.172	820	821	825	rVB	69116	82517	2.10%	0.128%
34	12.360	833	837	840	rBV	2357995	3649995	92.67%	5.670%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.573	851	855	859	rBV4	13471	29274	0.74%	0.045%
36	12.679	861	864	868	rVV	1307084	2261007	57.41%	3.512%
37	12.986	886	890	893	rBV	1161743	2220655	56.38%	3.450%
38	13.116	898	901	904	rVV	75112	116799	2.97%	0.181%
39	13.187	904	907	910	rVB4	32866	55836	1.42%	0.087%
40	13.246	910	912	919	rVB6	17714	39813	1.01%	0.062%
41	13.423	923	927	933	rVB5	16613	45581	1.16%	0.071%
42	13.564	935	939	941	rBV4	17658	32684	0.83%	0.051%
43	13.647	941	946	948	rBV3	16620	32299	0.82%	0.050%
44	13.765	951	956	960	rBV	2269177	3938640	100.00%	6.118%
45	13.883	964	966	967	rBV2	42228	63909	1.62%	0.099%
46	13.930	967	970	974	rVB	987709	1477039	37.50%	2.294%
47	14.024	974	978	982	rVB3	33067	82185	2.09%	0.128%
48	14.188	986	992	996	rBV4	12505	43254	1.10%	0.067%
49	14.259	996	998	1001	rVB	150720	214781	5.45%	0.334%
50	14.377	1004	1008	1010	rVB4	25409	46752	1.19%	0.073%
51	14.718	1034	1037	1038	rBV	45587	71743	1.82%	0.111%
52	15.190	1075	1077	1083	rBV6	16330	39279	1.00%	0.061%
53	15.308	1085	1087	1090	rVB4	14662	28228	0.72%	0.044%
54	15.519	1101	1105	1109	rBV5	24802	67767	1.72%	0.105%
55	15.648	1113	1116	1119	rBV2	40761	63593	1.61%	0.099%
56	15.707	1119	1121	1123	rBV2	22247	43349	1.10%	0.067%
57	15.778	1123	1127	1129	rBV	1302298	2372035	60.22%	3.685%
58	15.813	1129	1130	1133	rVB	141626	188013	4.77%	0.292%
59	15.896	1133	1137	1140	rBV	2303286	3883290	98.59%	6.032%
60	16.096	1152	1154	1158	rVB4	16574	33237	0.84%	0.052%
61	16.544	1189	1192	1198	rBV5	28821	67264	1.71%	0.104%
62	16.757	1208	1210	1213	rVB3	28354	45837	1.16%	0.071%
63	16.828	1214	1216	1218	rBV	31936	54304	1.38%	0.084%
64	16.887	1218	1221	1224	rVB4	61085	103254	2.62%	0.160%
65	16.958	1224	1227	1231	rBV3	67216	118963	3.02%	0.185%
66	17.053	1232	1235	1238	rBV2	315542	499044	12.67%	0.775%
67	17.397	1262	1264	1266	rBV3	20534	37135	0.94%	0.058%
68	17.454	1266	1269	1275	rVV7	37347	137859	3.50%	0.214%
69	17.561	1275	1278	1281	rVB3	88948	162646	4.13%	0.253%
70	17.631	1281	1284	1287	rBV3	85120	152570	3.87%	0.237%
71	17.843	1300	1302	1304	rBV2	26913	42699	1.08%	0.066%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	17.926	1304	1309	1311	rBV3	32622	75410	1.91%	0.117%
73	18.222	1331	1334	1338	rBV4	79481	276553	7.02%	0.430%
74	18.305	1338	1341	1346	rVB	283469	482932	12.26%	0.750%
75	18.448	1351	1353	1356	rVB4	38099	64284	1.63%	0.100%
76	18.590	1363	1365	1369	rBV4	23346	49977	1.27%	0.078%
77	18.756	1374	1379	1385	rVV2	1641728	3738540	94.92%	5.807%
78	18.947	1393	1395	1398	rBV3	30881	78553	1.99%	0.122%
79	19.089	1405	1407	1410	rBV4	53776	105476	2.68%	0.164%
80	19.220	1416	1418	1419	rBV2	27444	35045	0.89%	0.054%
81	19.422	1432	1435	1436	rBV3	38287	77998	1.98%	0.121%
82	19.482	1438	1440	1442	rVB	48877	72072	1.83%	0.112%
83	19.696	1455	1458	1460	rBV	133713	271204	6.89%	0.421%
84	19.897	1472	1475	1478	rBV2	107111	243885	6.19%	0.379%
85	20.240	1501	1504	1507	rBV	165246	331885	8.43%	0.516%
86	20.451	1520	1522	1525	rVB2	77936	130075	3.30%	0.202%
87	20.785	1546	1550	1555	rBV3	94838	315481	8.01%	0.490%
88	21.147	1578	1581	1590	rBV	560471	1562705	39.68%	2.427%
89	21.331	1592	1597	1600	rBV	867175	2075086	52.69%	3.223%
90	21.861	1640	1643	1646	rBV2	158020	306768	7.79%	0.477%
91	22.641	1709	1711	1714	rVB2	195826	333606	8.47%	0.518%
92	23.530	1785	1788	1792	rVB	143952	316664	8.04%	0.492%
93	23.726	1802	1805	1811	rVB2	129427	336017	8.53%	0.522%
94	23.962	1822	1825	1829	rBV2	82708	293154	7.44%	0.455%
95	24.551	1871	1875	1879	rBV2	248150	643095	16.33%	0.999%
96	24.917	1900	1906	1910	rBV	557479	1836985	46.64%	2.854%
97	25.173	1923	1928	1938	rVB	389097	1417916	36.00%	2.203%
98	25.743	1973	1976	1982	rVB3	115654	371991	9.44%	0.578%
99	27.184	2093	2098	2106	rVB2	183590	691467	17.56%	1.074%
100	30.977	2413	2418	2426	rVB6	77461	381768	9.69%	0.593%

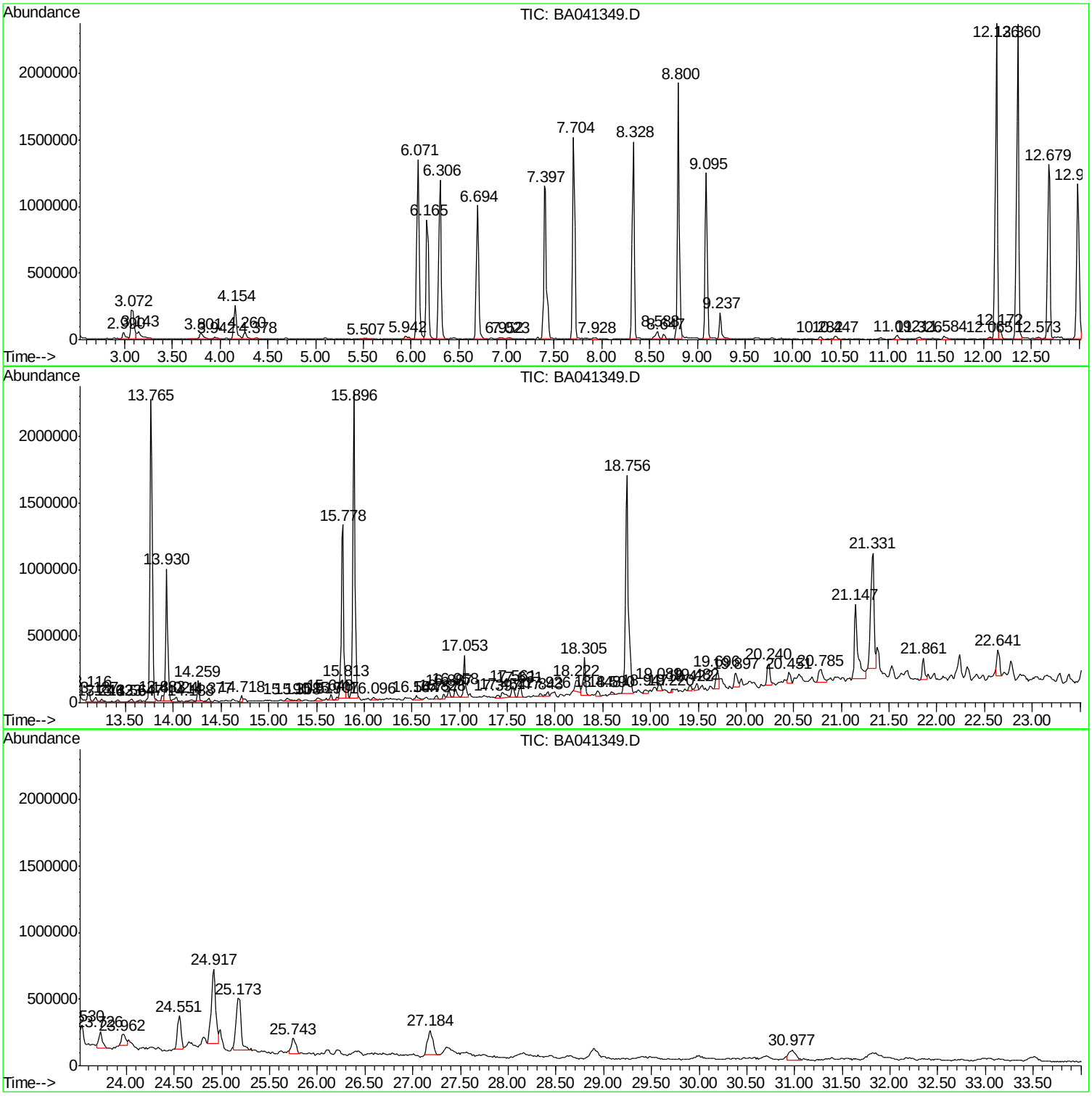
Sum of corrected areas: 64375930

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

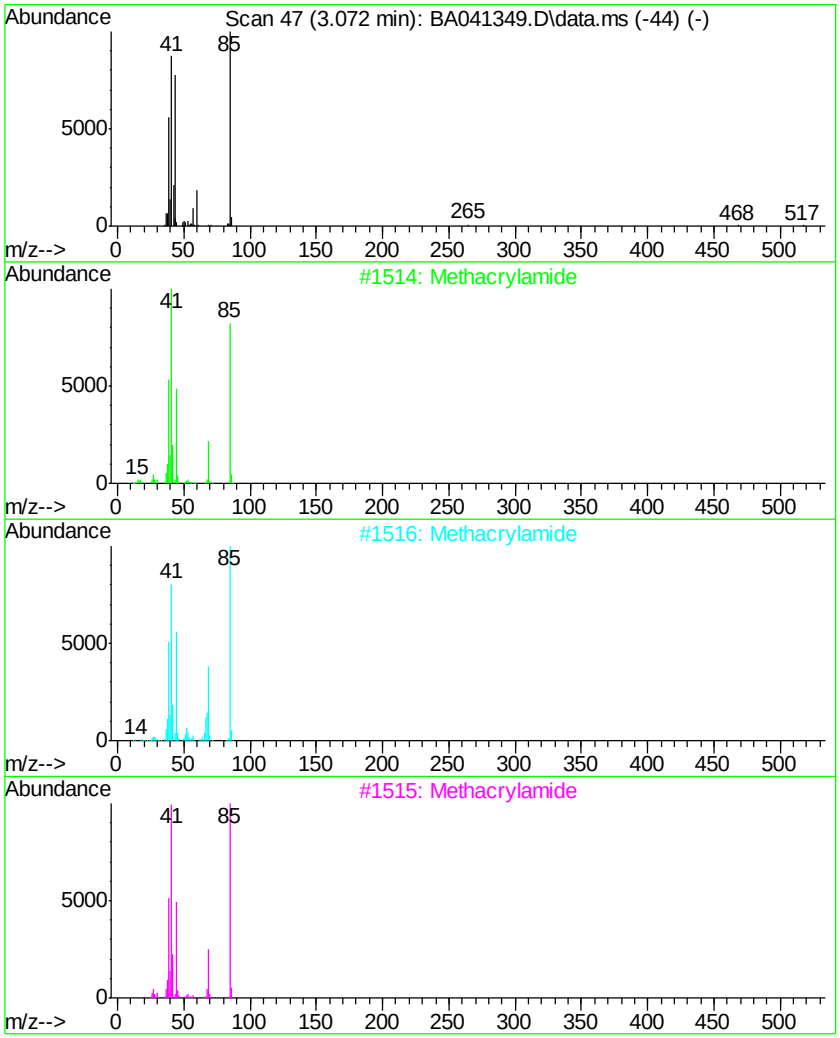
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

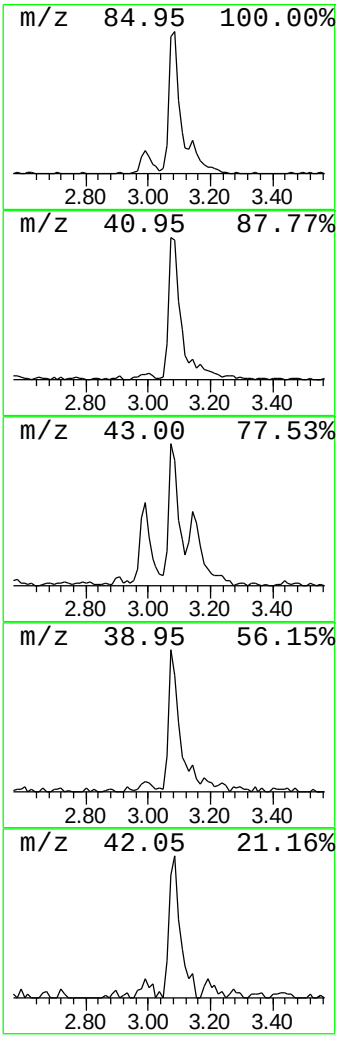
****

Peak Number 1 Methacrylamide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.070	6.02 ng/ul	487519	1,4-Dichlorobenzene-d4	6.694

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methacrylamide	85	C4H7NO	000079-39-0	59
2	Methacrylamide	85	C4H7NO	000079-39-0	59
3	Methacrylamide	85	C4H7NO	000079-39-0	59
4	2H-Pyran, tetrahydro-2-methyl-	100	C6H12O	010141-72-7	53
5	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	43





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

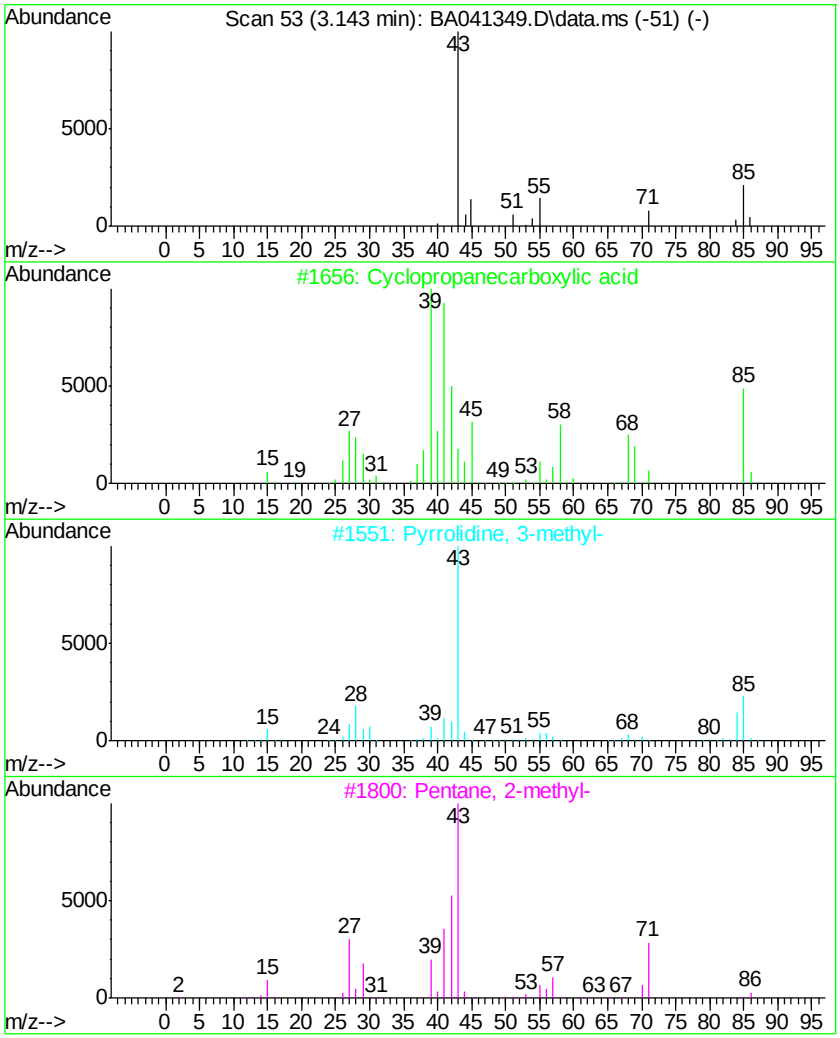
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

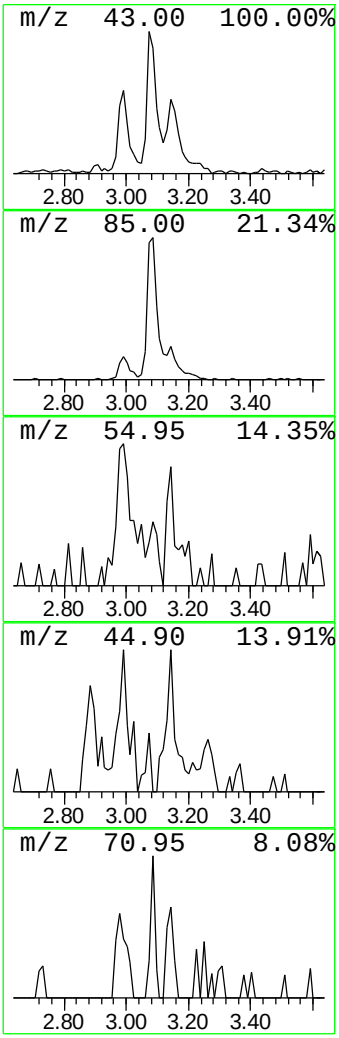
****

Peak Number 2 unknown3.14 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.140	2.18 ng/ul	176455	1,4-Dichlorobenzene-d4	6.694

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	9
2	Pyrrolidine, 3-methyl-	85	C5H11N	034375-89-8	5
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	5
4	Acetic acid ethenyl ester	86	C4H6O2	000108-05-4	4
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	4





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Sample    : Z4923-05
Misc      :
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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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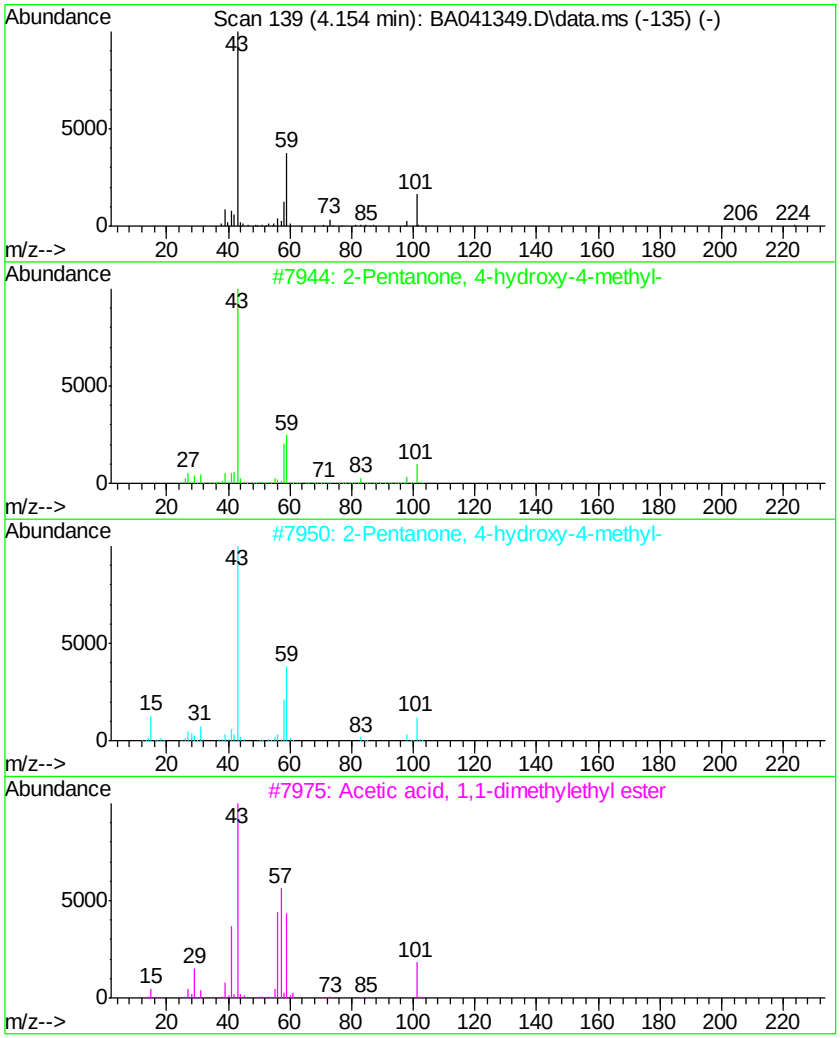
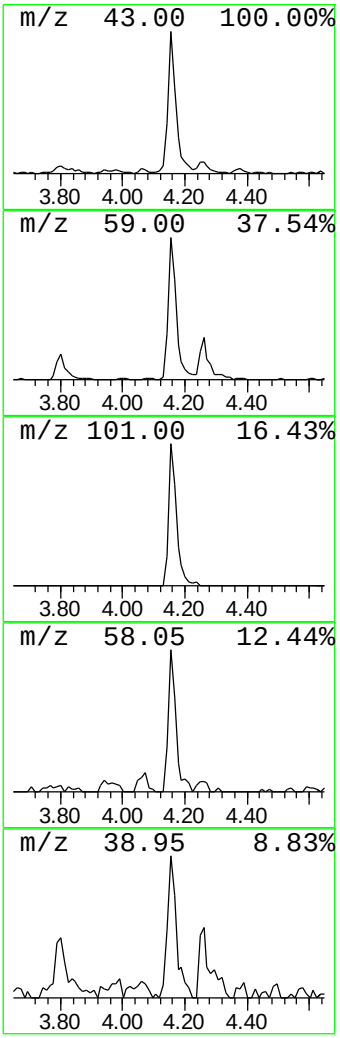
Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.150	5.98 ng/ul	484492	1,4-Dichlorobenzene-d4	6.694

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	42
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	33
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	32
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	23





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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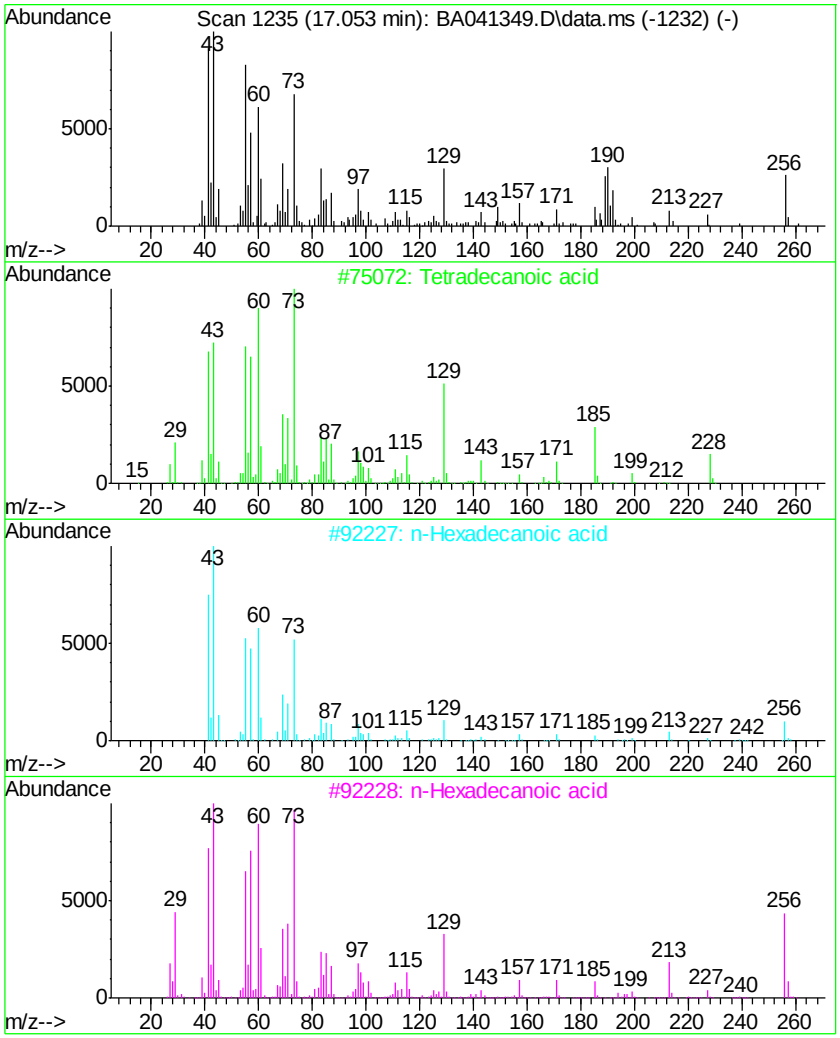
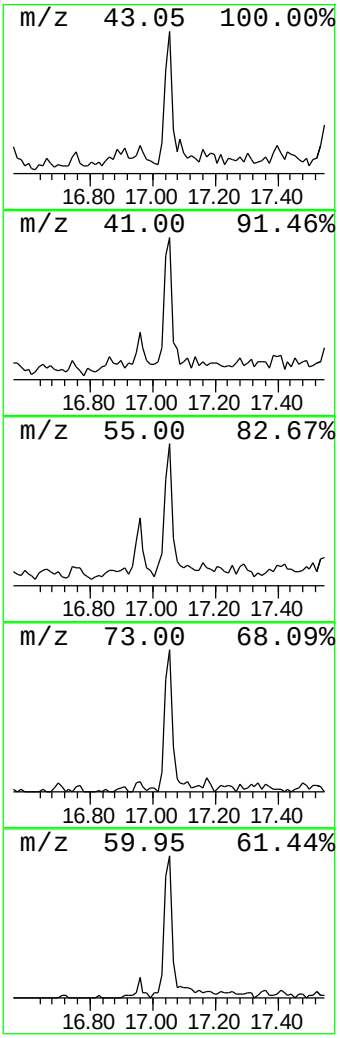
Peak Number 4 Tetradecanoic acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.050	4.21 ng/ul	499044	Phenanthrene-d10	15.778

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanoic acid	228	C14H28O2	000544-63-8	46
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	41
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	41
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	35
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	30





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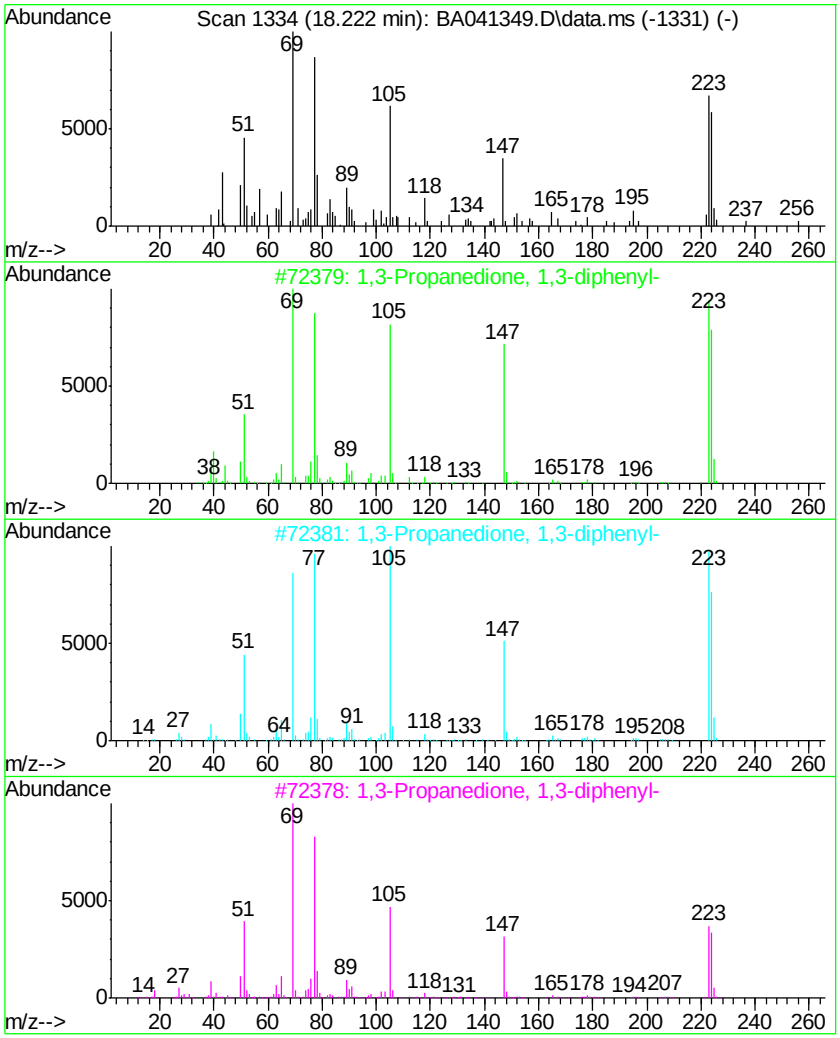
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

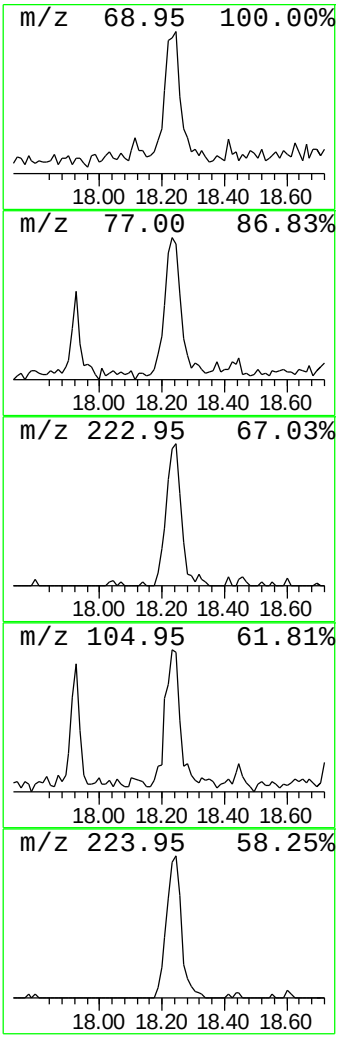
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1,3-Propanedione, 1,3-diphe... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.220	2.33 ng/ul	276553	Phenanthrene-d10	15.778

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	93
2	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	90
3	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	90
4	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	90
5	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	87





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

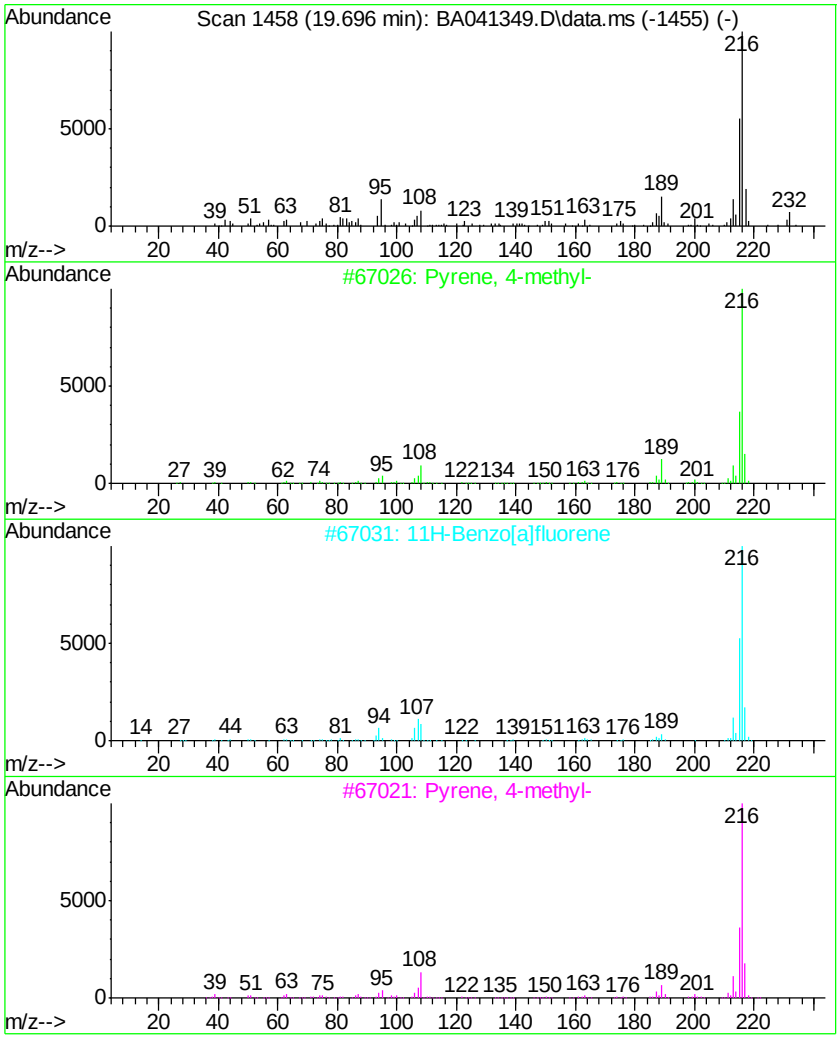
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

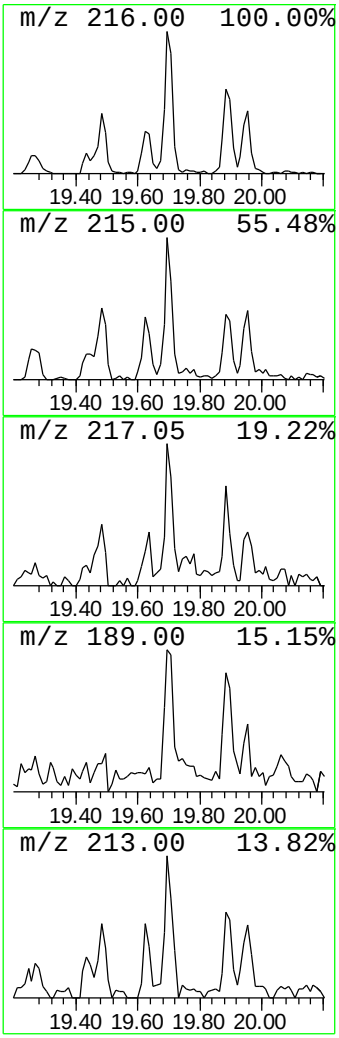
****

Peak Number 6 Pyrene, 4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.700	2.61 ng/ul	271204	Chrysene-d12	21.331

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83





Library Search Compound Report

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Misc      :
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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number  7  Pyrene, 2-methyl-                Concentration Rank 16
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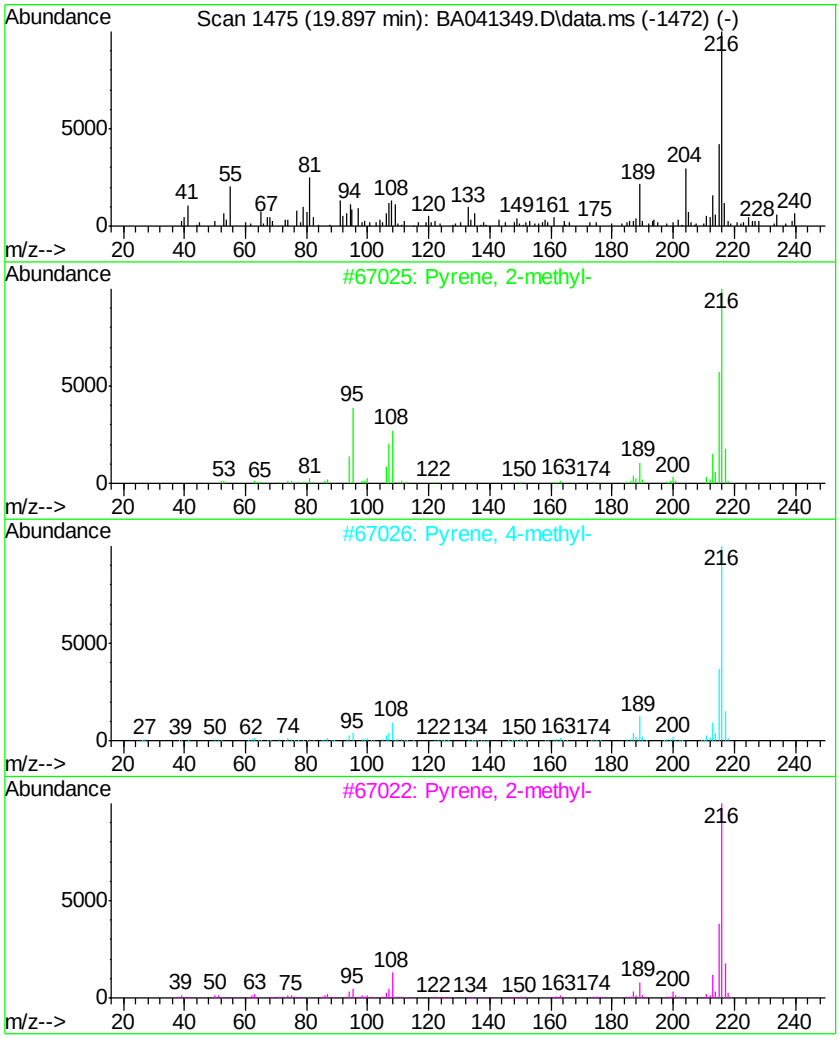
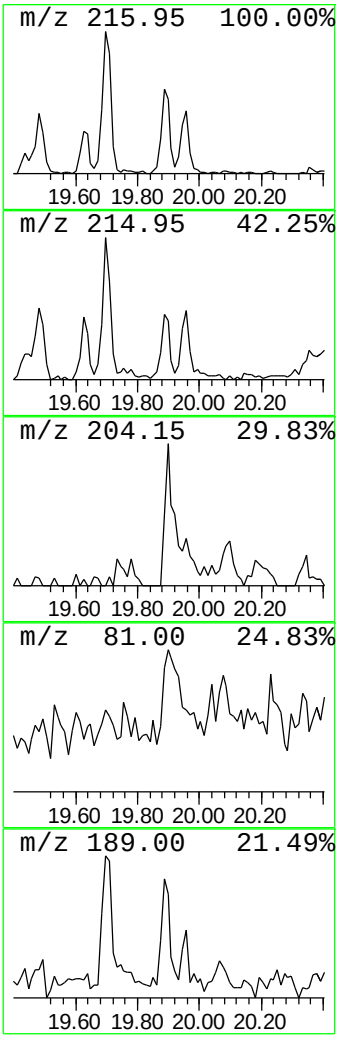
R.T.	EstConc	Area	Relative to ISTD	R.T.
19.900	2.35 ng/ul	243885	Chrysene-d12	21.331

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	70
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	68
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	64
5	1,3-Dihydro-5,6-dimethyl-1-(2-pr...	216	C12H12N2S	080276-22-8	47





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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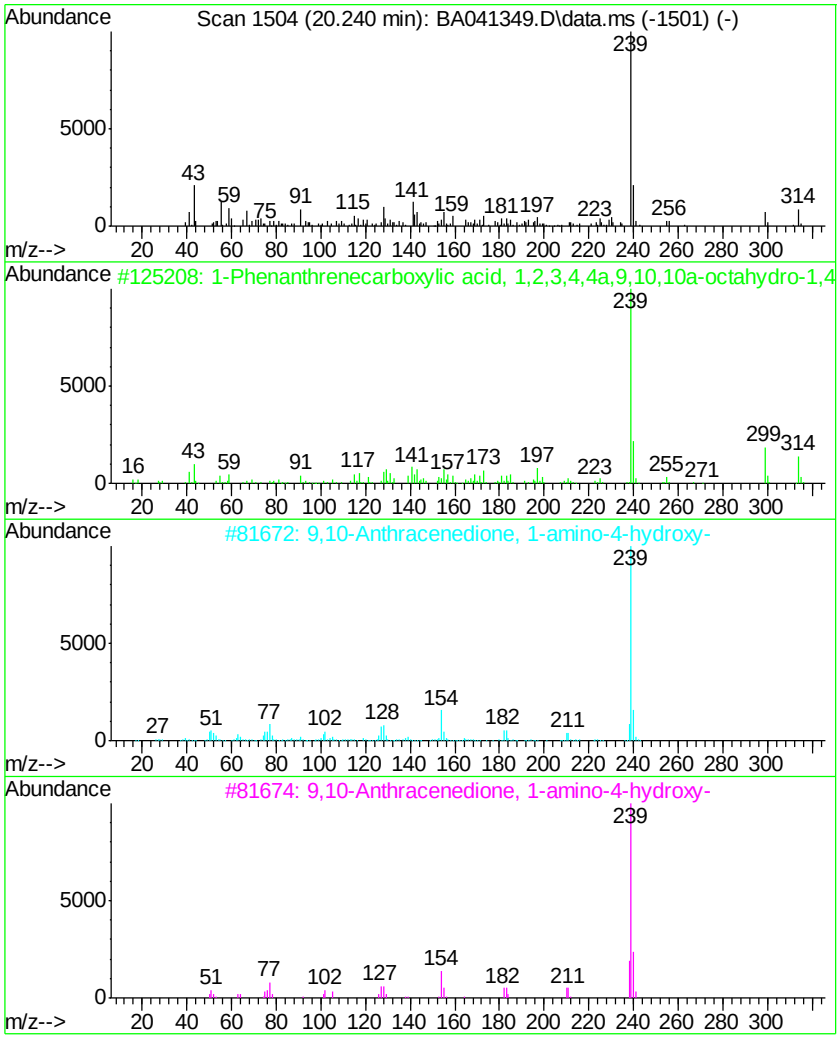
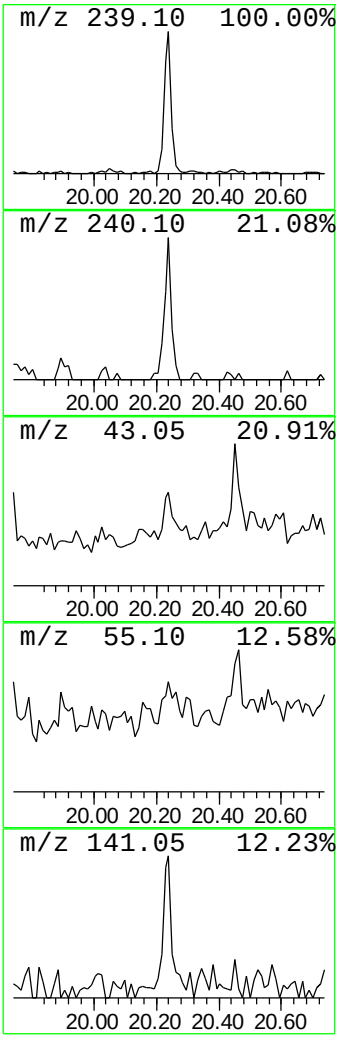
Peak Number 8 1-Phenanthrenecarboxylic ac... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.240	3.20 ng/ul	331885	Chrysene-d12	21.331

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenanthrenecarboxylic acid, 1...	314	C21H30O2	001235-74-1	58
2	9,10-Anthracenedione, 1-amino-4-...	239	C14H9NO3	000116-85-8	53
3	9,10-Anthracenedione, 1-amino-4-...	239	C14H9NO3	000116-85-8	50
4	9,10-Anthracenedione, 2-amino-3-...	239	C14H9NO3	000117-77-1	50
5	Indole, 3-imidazolo[2,1-b]thiazo...	239	C13H9N3S	292855-05-1	50





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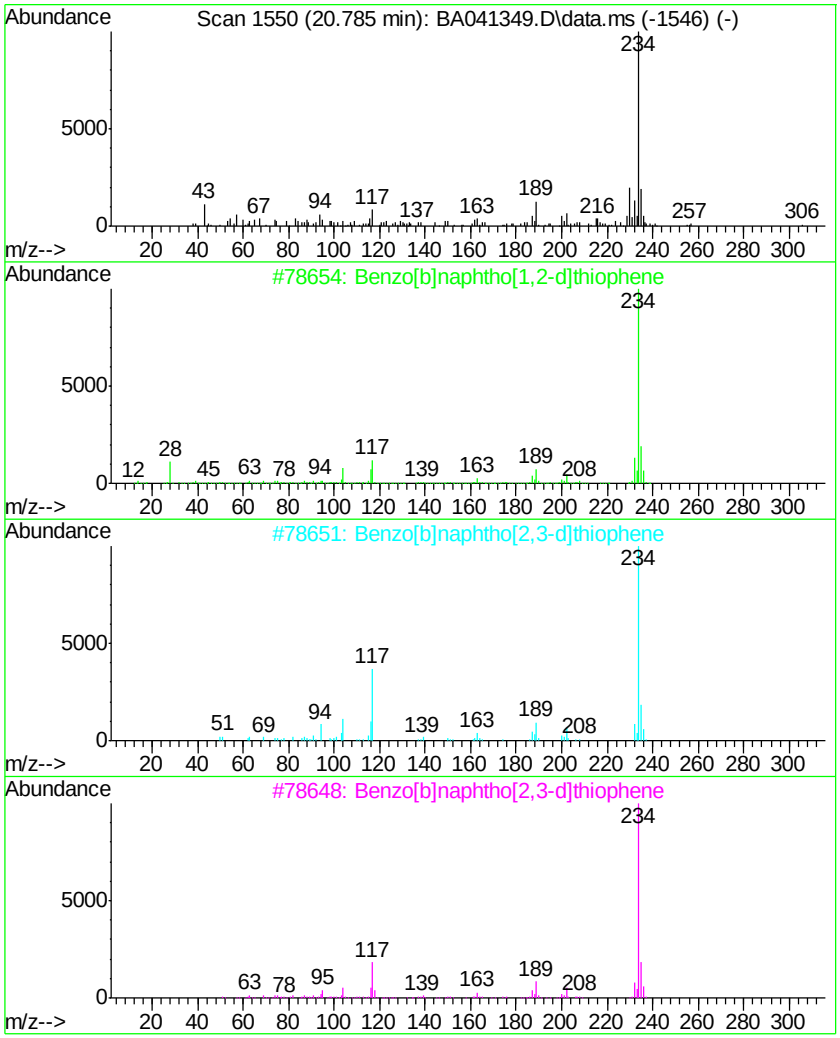
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

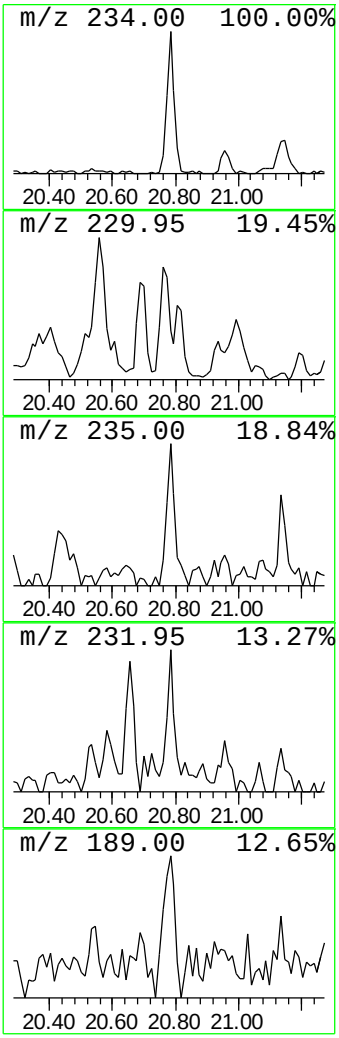
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzo[b]naphtho[1,2-d]thiop... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.780	3.04 ng/ul	315481	Chrysene-d12	21.331

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	93
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	74
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	68





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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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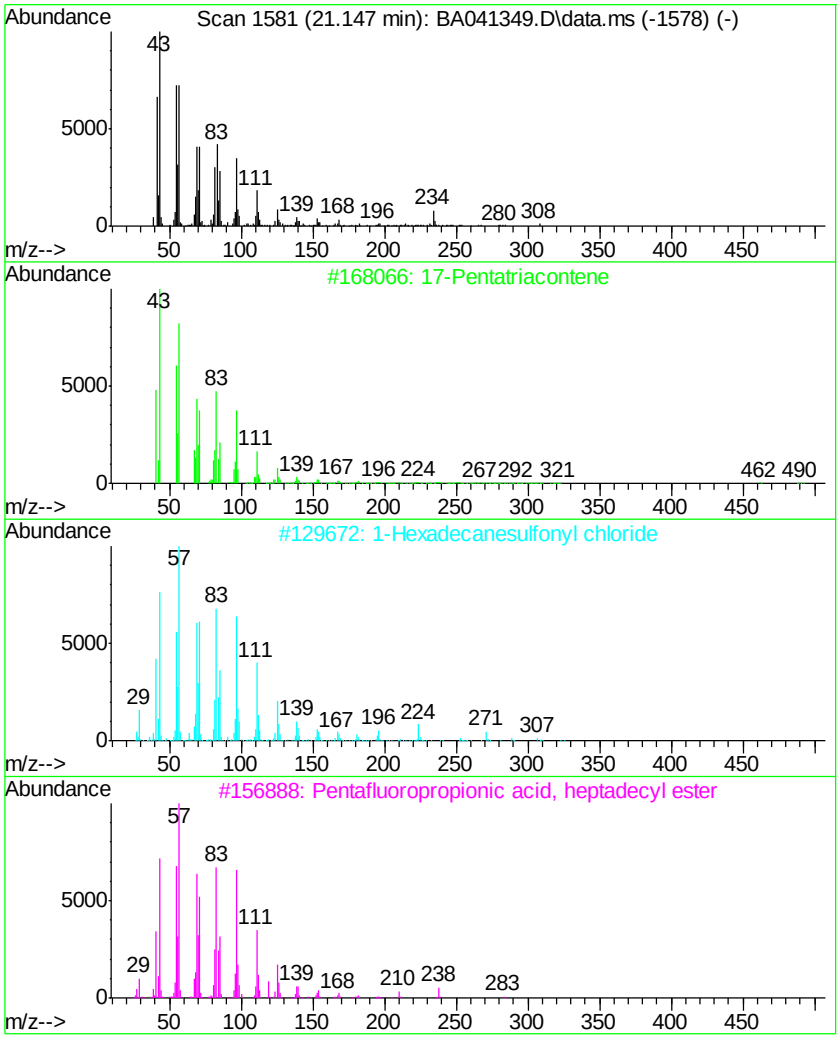
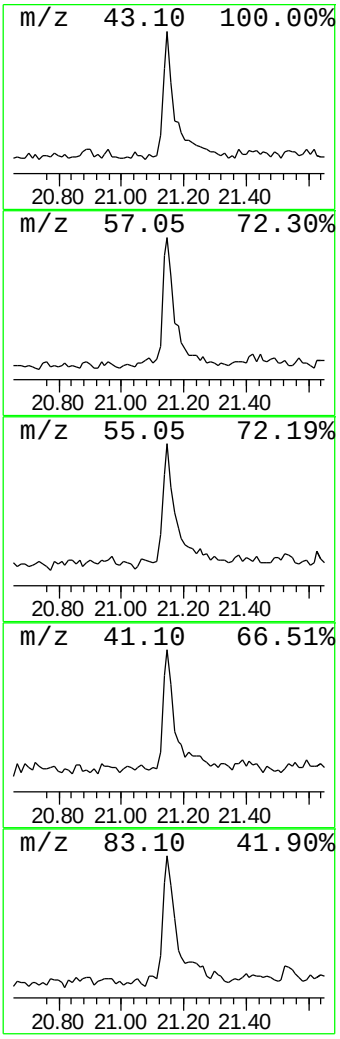
Peak Number 10 17-Pentatriacontene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.150	15.06 ng/ul	1562710	Chrysene-d12	21.331

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	17-Pentatriacontene	491	C35H70	006971-40-0	87
2	1-Hexadecanesulfonyl chloride	324	C16H33ClO2S	038775-38-1	83
3	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	83
4	1-Hexacosanol	382	C26H54O	000506-52-5	83
5	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	81





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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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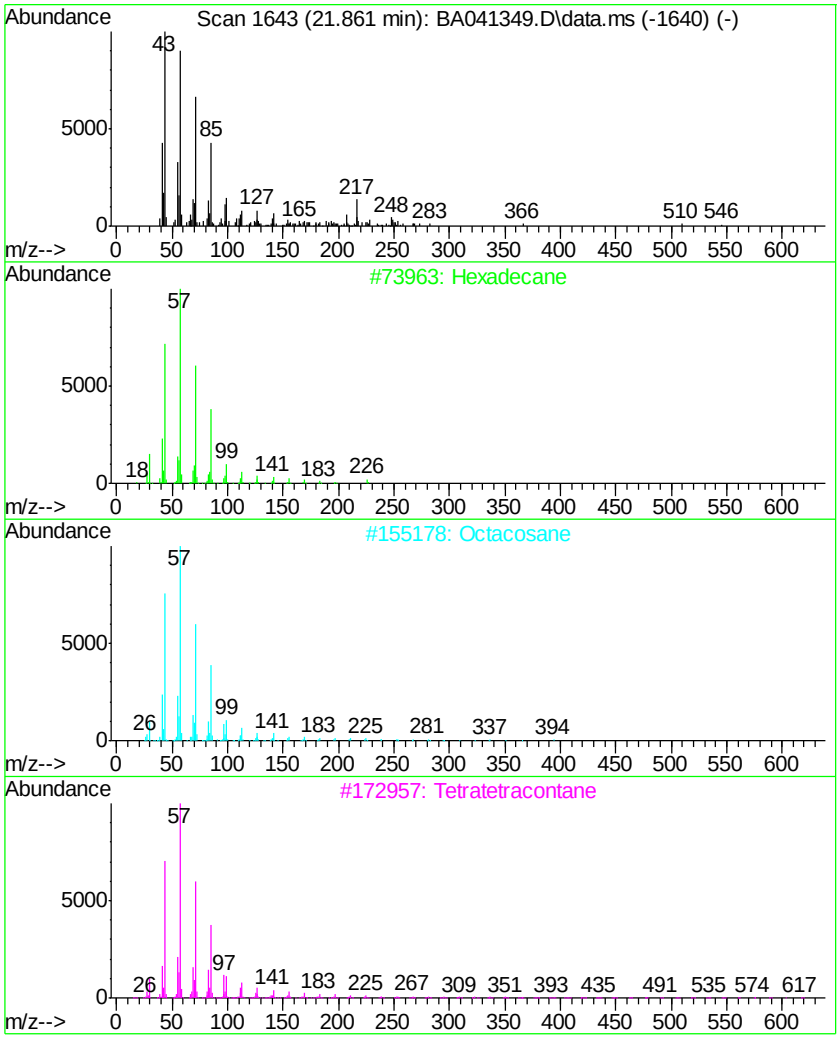
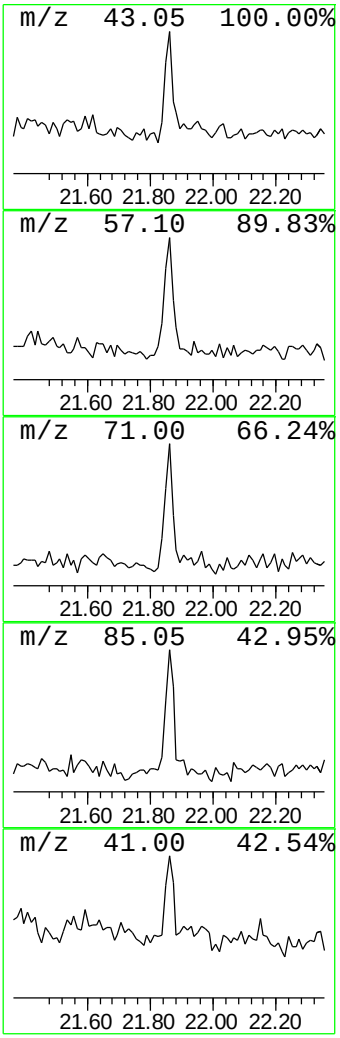
Peak Number 11 Hexadecane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.860	2.96 ng/ul	306768	Chrysene-d12	21.331

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	86
2	Octacosane	394	C28H58	000630-02-4	76
3	Tetratetracontane	619	C44H90	007098-22-8	76
4	Heptadecane	240	C17H36	000629-78-7	70
5	Docosane, 9-butyl-	366	C26H54	055282-14-9	68





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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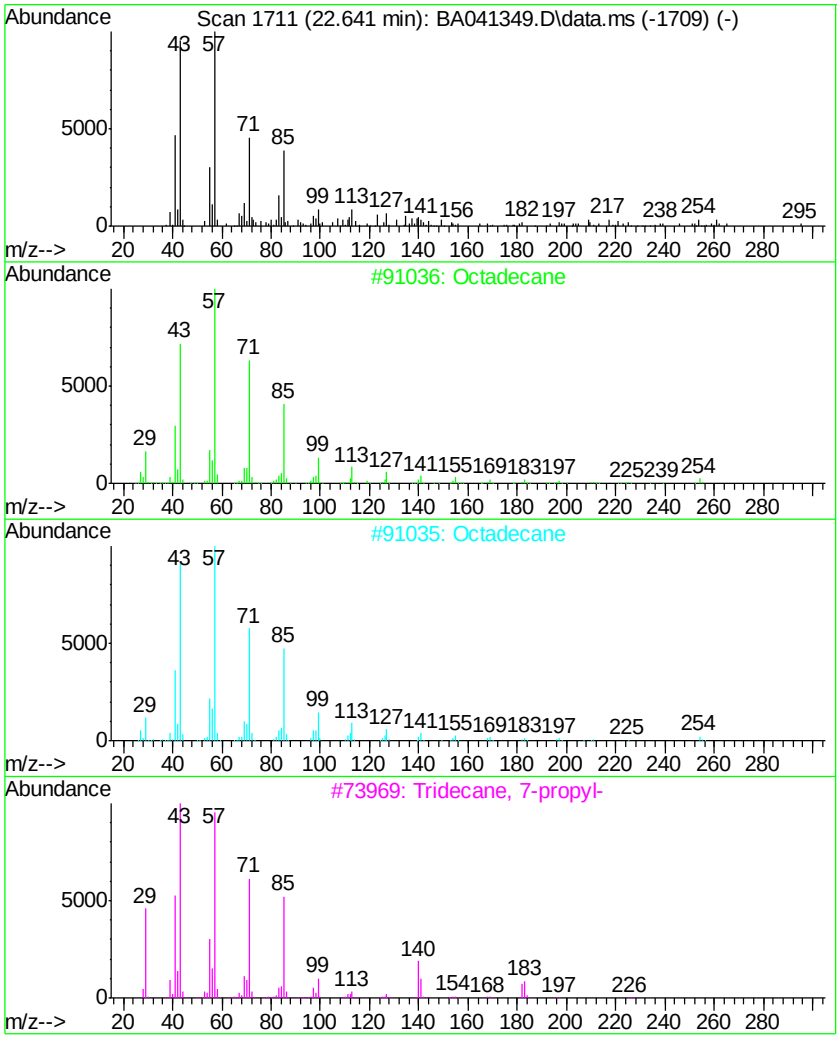
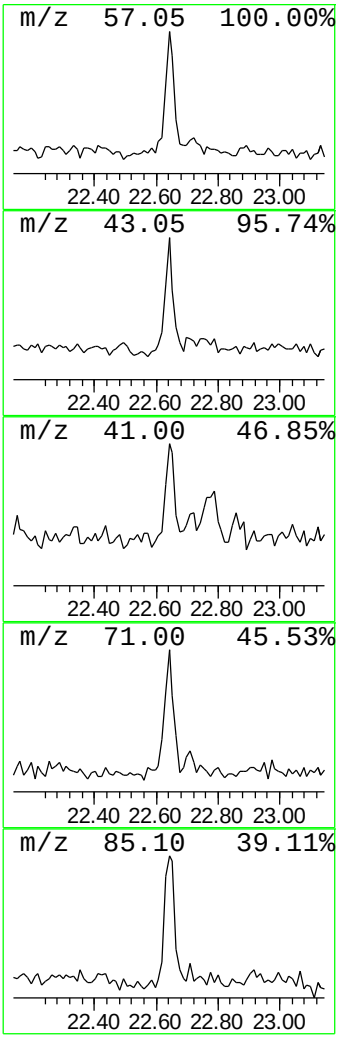
Peak Number 12 Octadecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.640	3.22 ng/ul	333606	Chrysene-d12	21.331

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	96
2	Octadecane	254	C18H38	000593-45-3	95
3	Tridecane, 7-propyl-	226	C16H34	055045-09-5	81
4	Nonadecane	268	C19H40	000629-92-5	74
5	Docosane	310	C22H46	000629-97-0	74





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Eicosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.530	4.47 ng/ul	316664	Perylene-d12	25.173

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Eicosane	282	C20H42	000112-95-8	91
3	Pentadecane	212	C15H32	000629-62-9	81
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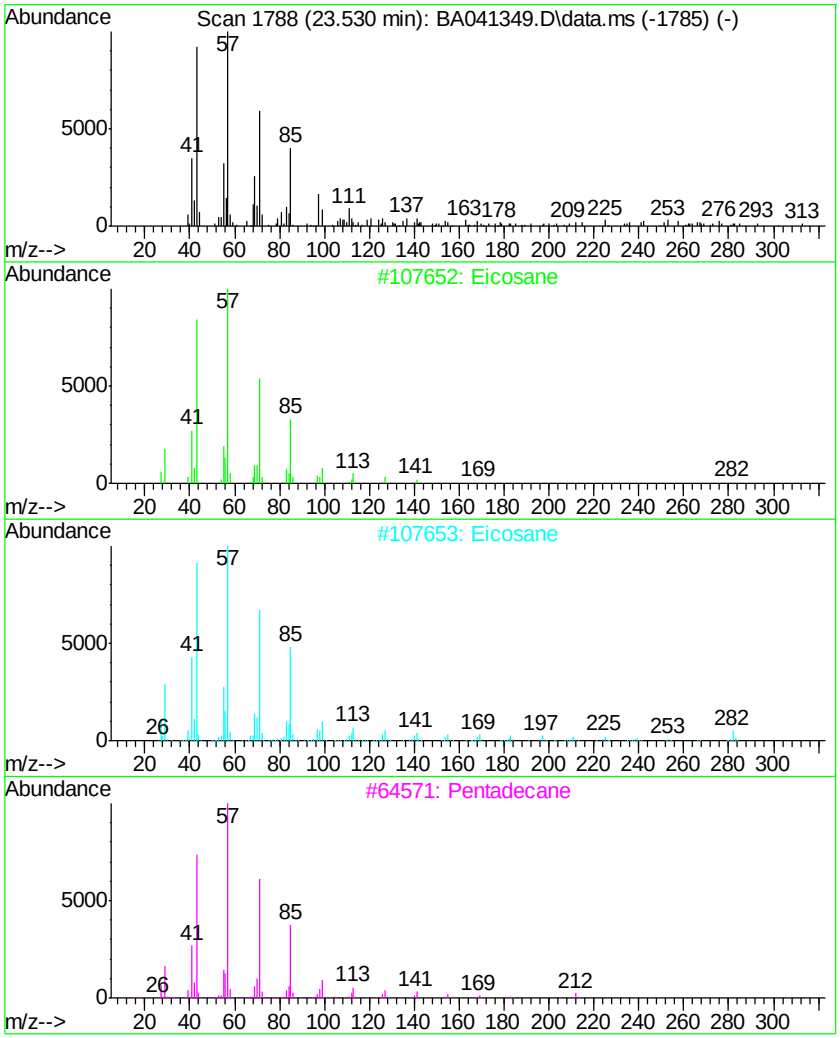
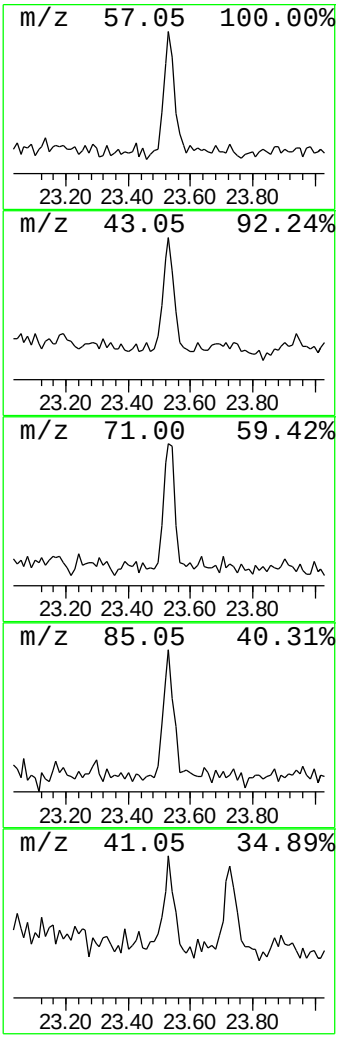
5	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	81





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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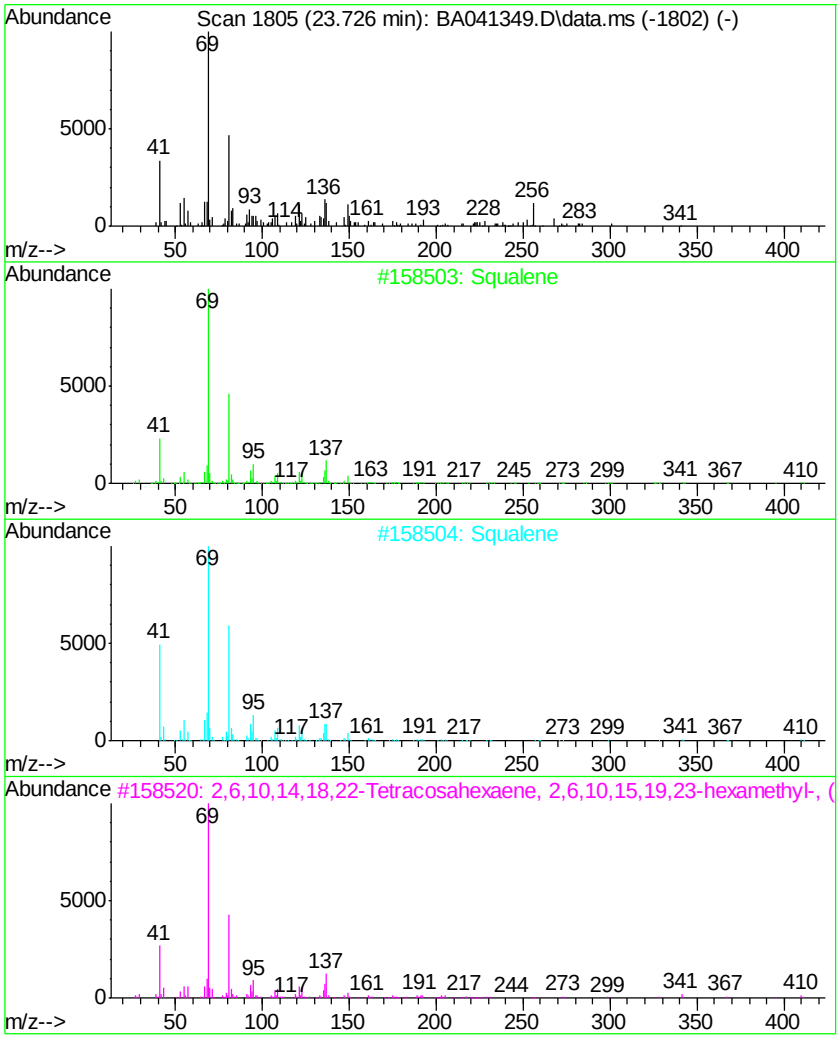
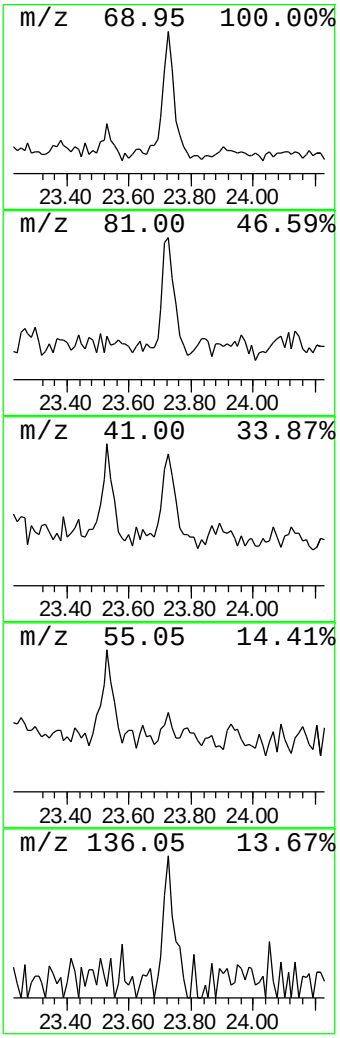
Peak Number 14 Squalene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.730	4.74 ng/ul	336017	Perylene-d12	25.173

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	007683-64-9	72
2	Squalene	410	C30H50	007683-64-9	64
3	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	59
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	58
5	2,6,10-Dodecatrien-1-ol, 3,7,11-...	264	C17H28O2	004128-17-0	53





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

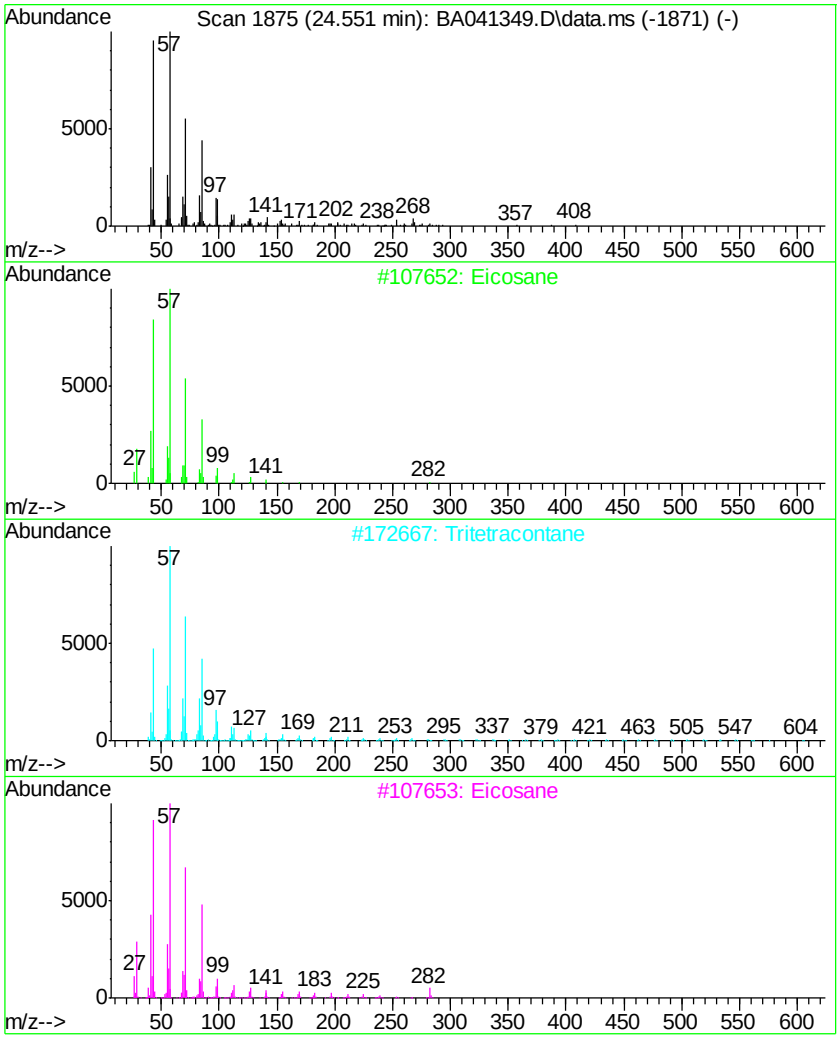
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

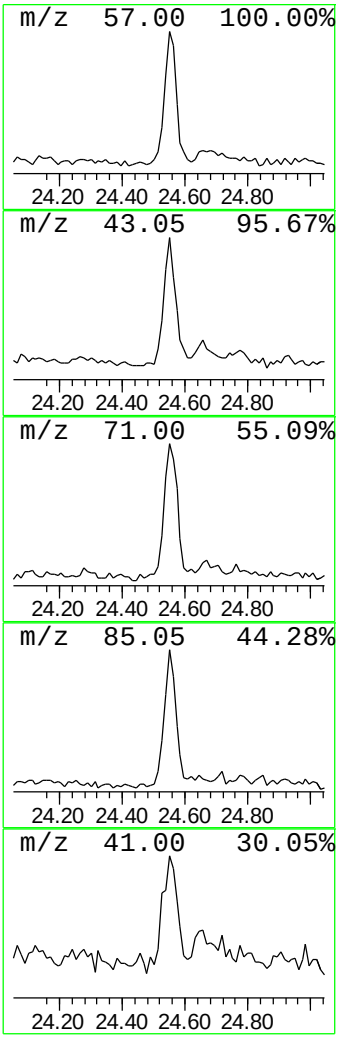
****

Peak Number 15 Eicosane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.550	9.07 ng/ul	643095	Perylene-d12	25.173

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Tritetracontane	605	C43H88	007098-21-7	87
3	Eicosane	282	C20H42	000112-95-8	87
4	Octacosane	394	C28H58	000630-02-4	87
5	Tetratetracontane	619	C44H90	007098-22-8	83





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

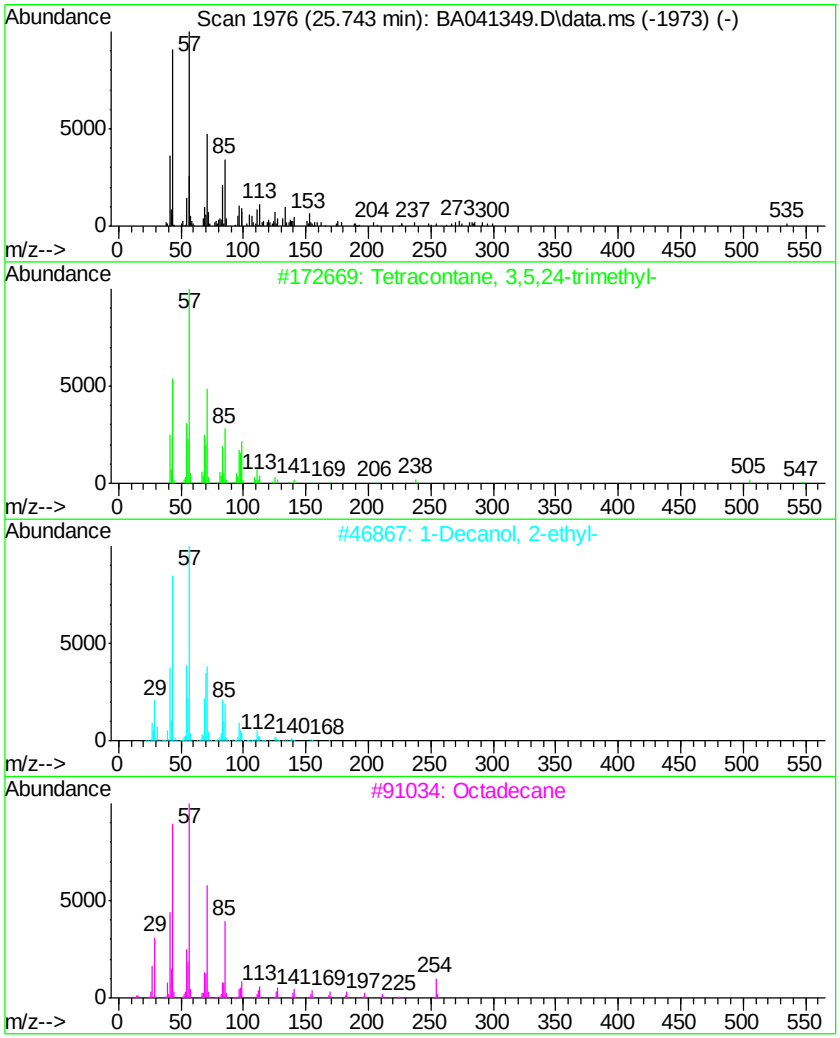
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

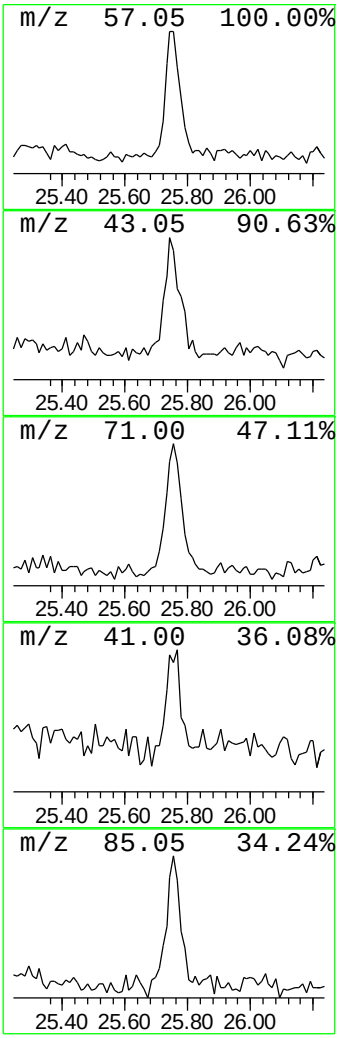
****

Peak Number 16 Tetracontane, 3,5,24-trimet... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.740	5.25 ng/ul	371991	Perylene-d12	25.173

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracontane, 3,5,24-trimethyl-	605	C43H88	055162-61-3	72
2	1-Decanol, 2-ethyl-	186	C12H26O	021078-65-9	64
3	Octadecane	254	C18H38	000593-45-3	58
4	Undecane, 3,7-dimethyl-	184	C13H28	017301-29-0	53
5	Dodecane, 1-chloro-	204	C12H25Cl	000112-52-7	50





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

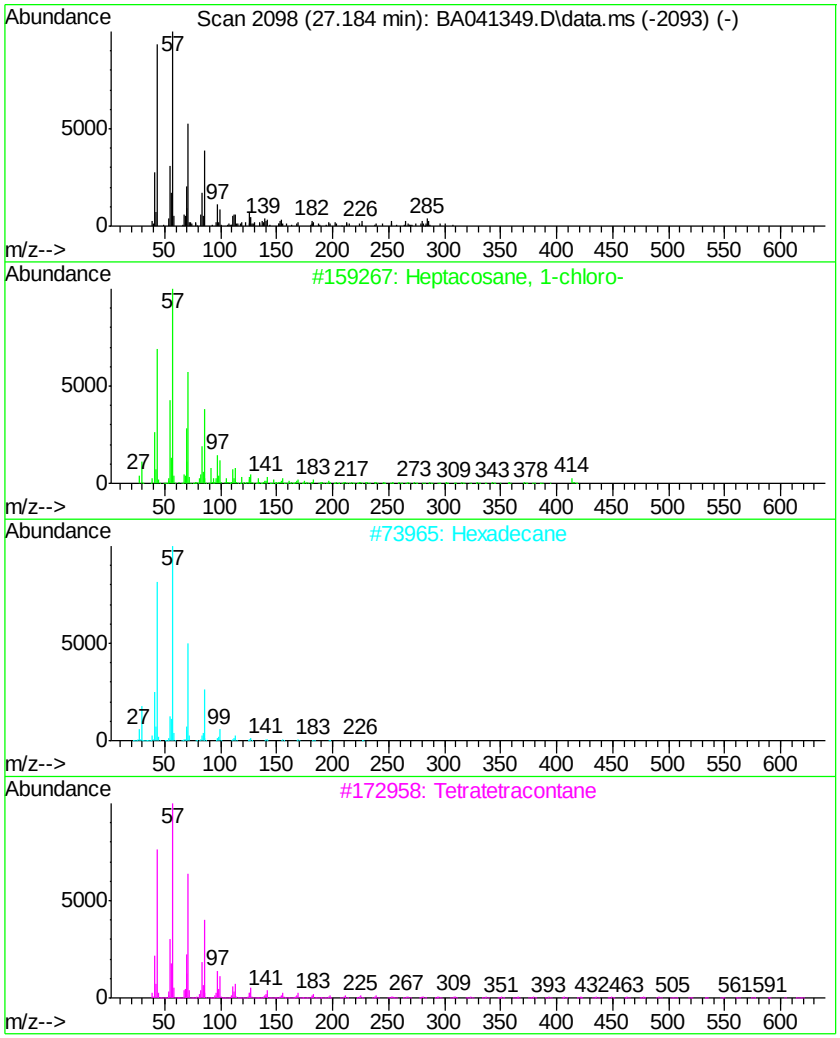
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

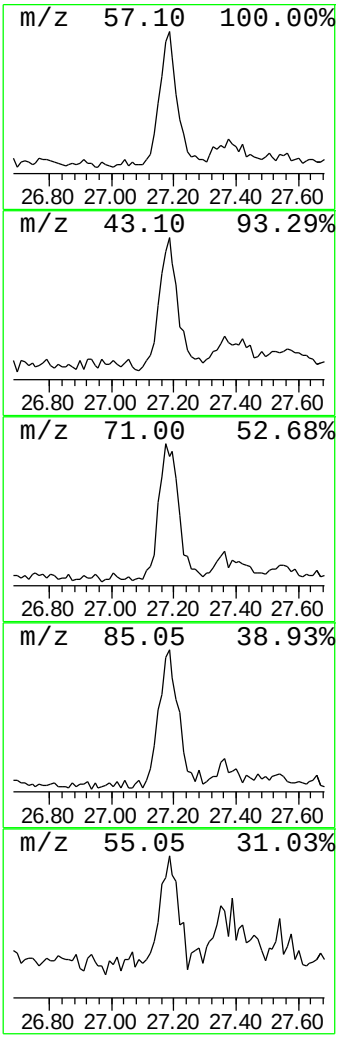
****

Peak Number 17 Heptacosane, 1-chloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.180	9.75 ng/ul	691467	Perylene-d12	25.173

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	83
2	Hexadecane	226	C16H34	000544-76-3	81
3	Tetratetracontane	619	C44H90	007098-22-8	80
4	Hexatriacontane	507	C36H74	000630-06-8	80
5	Hexatriacontane	507	C36H74	000630-06-8	80





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On    : 21 Oct 2008   9:16
Operator  : HNP
Sample    : Z4923-05
Misc      :
ALS Vial  : 23   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

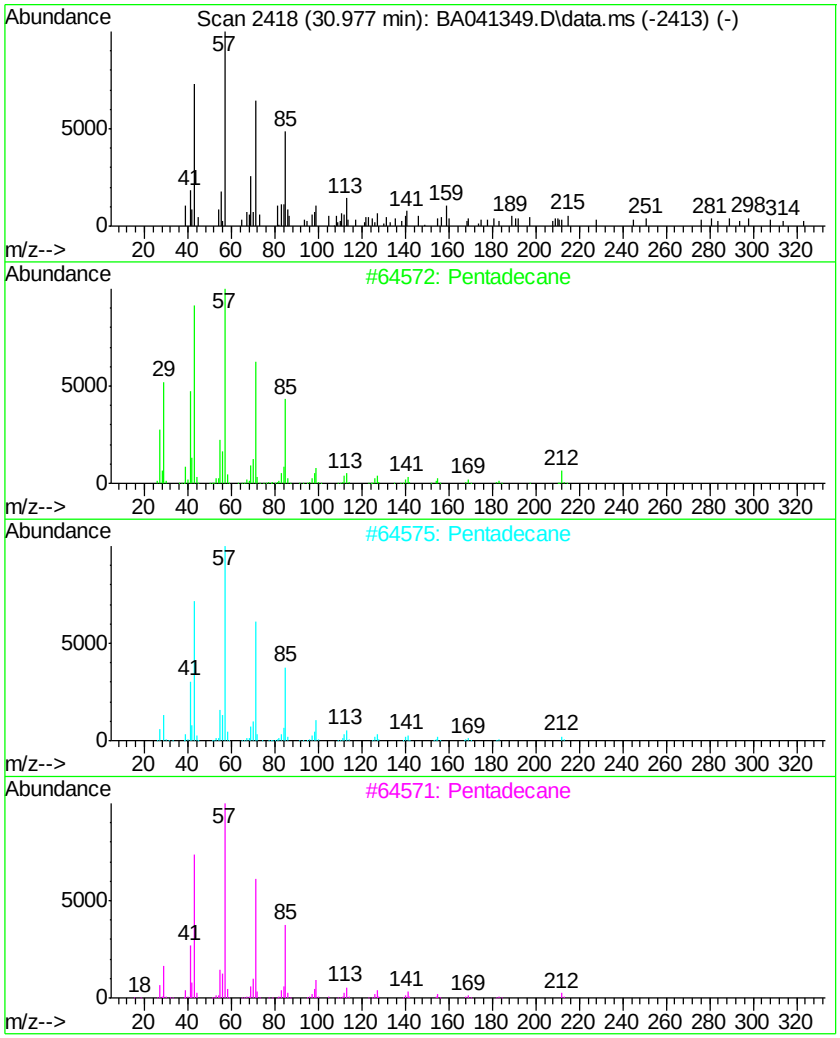
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

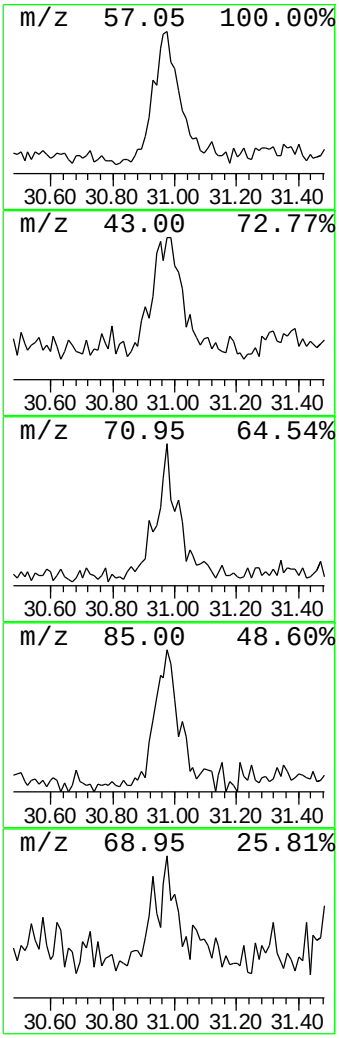
****

Peak Number 18 Pentadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.980	5.38 ng/ul	381768	Perylene-d12	25.173

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	60
2	Pentadecane	212	C15H32	000629-62-9	60
3	Pentadecane	212	C15H32	000629-62-9	60
4	Octadecane	254	C18H38	000593-45-3	49
5	Pentadecane	212	C15H32	000629-62-9	49





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041349.D
Acq On : 21 Oct 2008 9:16
Operator : HNP
Sample : Z4923-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Methacrylamide	3.070	6.0	ng/ul	487519	1	6.694	1620220	20.0
unknown3.14	3.140	2.2	ng/ul	176455	1	6.694	1620220	20.0
2-Pentanone, 4-...	4.150	6.0	ng/ul	484492	1	6.694	1620220	20.0
Tetradecanoic acid	17.050	4.2	ng/ul	499044	4	15.778	2372040	20.0
1,3-Propanedion...	18.220	2.3	ng/ul	276553	4	15.778	2372040	20.0
Pyrene, 4-methyl-	19.700	2.6	ng/ul	271204	5	21.331	2075090	20.0
Pyrene, 2-methyl-	19.900	2.4	ng/ul	243885	5	21.331	2075090	20.0
1-Phenanthrenec...	20.240	3.2	ng/ul	331885	5	21.331	2075090	20.0
Benzo[b]naphtho...	20.780	3.0	ng/ul	315481	5	21.331	2075090	20.0
17-Pentatriacon...	21.150	15.1	ng/ul	1562710	5	21.331	2075090	20.0
Hexadecane	21.860	3.0	ng/ul	306768	5	21.331	2075090	20.0
Octadecane	22.640	3.2	ng/ul	333606	5	21.331	2075090	20.0
Eicosane	23.530	4.5	ng/ul	316664	6	25.173	1417920	20.0
Squalene	23.730	4.7	ng/ul	336017	6	25.173	1417920	20.0
Eicosane	24.550	9.1	ng/ul	643095	6	25.173	1417920	20.0
Tetracontane, 3...	25.740	5.3	ng/ul	371991	6	25.173	1417920	20.0
Heptacosane, 1-...	27.180	9.8	ng/ul	691467	6	25.173	1417920	20.0
Pentadecane	30.980	5.4	ng/ul	381768	6	25.173	1417920	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-3B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-06

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041341.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.42 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-3B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-06

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041341.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.42 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC4-3B[4.5-5.0]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-06

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041341.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.42 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

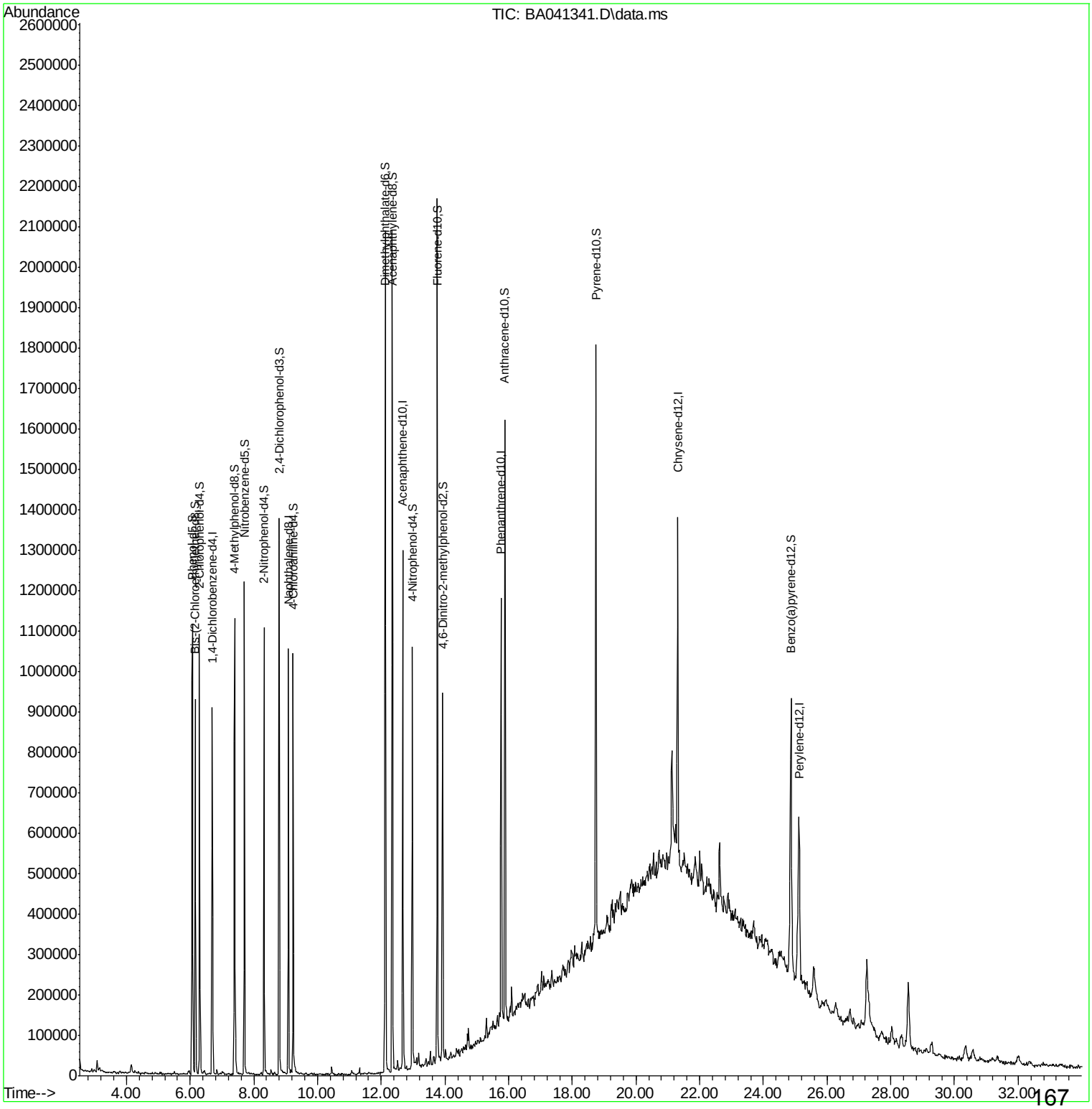
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	74685-33-9	3-Eicosene, (E)-	21.13	300	JNB
02.		unknown22.63	22.63	240	J
03.		unknown27.25	27.25	490	J
04.		unknown28.03	28.03	82	J
05.		unknown28.55	28.55	300	J
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 21 04:52:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
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Acq On : 21 Oct 2008 3:46
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ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 21 04:52:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.694	152	227822	20.00	ng/ul	0.01
16) Naphthalene-d8	9.083	136	722010	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.680	164	475696	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.763	188	705149	20.00	ng/ul	0.00
73) Chrysene-d12	21.309	240	634874	20.00	ng/ul	0.02
81) Perylene-d12	25.124	264	532828	20.00	ng/ul	0.05
System Monitoring Compounds						
3) Phenol-d5	6.070	99	468813	33.99	ng/ul	0.01
5) Bis-(2-Chloroethyl)eth...	6.164	67	322608	34.50	ng/ul	0.01
7) 2-Chlorophenol-d4	6.293	132	409878	34.97	ng/ul	0.00
11) 4-Methylphenol-d8	7.400	113	283788	30.32	ng/ul	0.01
17) Nitrobenzene-d5	7.706	128	229612	35.92	ng/ul	0.01
20) 2-Nitrophenol-d4	8.328	143	272072	34.58	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.800	165	436892	30.00	ng/ul	0.01
27) 4-Chloroaniline-d4	9.236	131	387765	26.93	ng/ul	0.01
41) Dimethylphthalate-d6	12.126	166	1229104	38.80	ng/ul	0.01
44) Acenaphthylene-d8	12.349	160	1356816	35.23	ng/ul	0.00
49) 4-Nitrophenol-d4	12.975	143	239406	37.08	ng/ul	0.01
55) Fluorene-d10	13.764	176	906620	35.58	ng/ul	0.02
60) 4,6-Dinitro-2-methylph...	13.930	200	221021	30.29	ng/ul	0.01
68) Anthracene-d10	15.881	188	1037427	30.73	ng/ul	0.02
74) Pyrene-d10	18.746	212	1040767	37.52	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.871	264	871023	30.02	ng/ul	0.05

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041341.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.908	31	33	36	rVB3	8002	13447	0.40%	0.026%
2	2.979	36	39	43	rBV3	6063	17833	0.53%	0.034%
3	3.073	45	47	51	rBV2	29941	62435	1.87%	0.120%
4	3.156	51	54	57	rVB4	7644	19768	0.59%	0.038%
5	3.803	104	109	111	rBV3	6136	19944	0.60%	0.038%
6	4.154	135	139	146	rVB2	21545	72892	2.18%	0.141%
7	4.248	146	147	152	rVB4	8090	19101	0.57%	0.037%
8	5.047	211	215	218	rBV4	5643	12012	0.36%	0.023%
9	5.505	252	254	258	rVV3	7560	15747	0.47%	0.030%
10	5.941	289	291	292	rBV2	7253	12290	0.37%	0.024%
11	5.976	292	294	298	rVB2	9343	14793	0.44%	0.029%
12	6.070	298	302	307	rBV	1114106	1958717	58.63%	3.776%
13	6.164	307	310	318	rVV	927493	1318935	39.48%	2.543%
14	6.293	318	321	327	rVV	1088399	1835531	54.94%	3.538%
15	6.411	329	331	333	rVV2	5570	11084	0.33%	0.021%
16	6.694	352	355	363	rVB	906470	1457572	43.63%	2.810%
17	6.836	365	367	369	rVB2	10474	12409	0.37%	0.024%
18	6.942	371	376	378	rBV3	4657	10888	0.33%	0.021%
19	7.012	378	382	383	rBV2	6267	12157	0.36%	0.023%
20	7.400	411	415	424	rVB	1126969	1781879	53.33%	3.435%
21	7.706	437	441	444	rBV	1218455	1961202	58.70%	3.781%
22	8.328	490	494	497	rBV	1106457	1872173	56.03%	3.609%
23	8.376	497	498	505	rVB3	8645	19611	0.59%	0.038%
24	8.541	509	512	515	rBV4	12996	23776	0.71%	0.046%
25	8.800	530	534	537	rBV	1374128	2319896	69.44%	4.472%
26	9.083	555	558	561	rBV	1050976	1612935	48.28%	3.109%
27	9.166	563	565	567	rVV3	8647	13069	0.39%	0.025%
28	9.236	567	571	579	rVV	1037837	1559451	46.67%	3.006%
29	9.614	600	603	609	rBV3	3894	14243	0.43%	0.027%
30	10.435	670	673	678	rVV4	19688	42476	1.27%	0.082%
31	11.081	724	728	730	rBV	10449	23639	0.71%	0.046%
32	11.316	746	748	751	rVB2	18470	29341	0.88%	0.057%
33	12.126	813	817	820	rVV	2077476	3111401	93.13%	5.998%
34	12.349	832	836	839	rBV	2080150	3163226	94.68%	6.098%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.515	847	850	853	rVB2	26355	44600	1.33%	0.086%
36	12.585	853	856	860	rBV5	8466	27452	0.82%	0.053%
37	12.680	860	864	867	rBV	1279472	1998169	59.81%	3.852%
38	12.727	867	868	871	rVB3	11088	12456	0.37%	0.024%
39	12.798	871	874	876	rVB3	10881	20662	0.62%	0.040%
40	12.975	885	889	892	rBV	1042675	1919646	57.46%	3.701%
41	13.105	898	900	902	rVB3	18179	23756	0.71%	0.046%
42	13.175	903	906	909	rVB2	31808	53812	1.61%	0.104%
43	13.410	919	926	929	rVB8	19065	61703	1.85%	0.119%
44	13.481	929	932	934	rBV4	12568	26185	0.78%	0.050%
45	13.540	934	937	940	rVB3	34850	54072	1.62%	0.104%
46	13.657	943	947	950	rBV6	20564	55648	1.67%	0.107%
47	13.764	952	956	959	rVV	2132473	3341093	100.00%	6.441%
48	13.811	959	960	962	rVV2	10884	20025	0.60%	0.039%
49	13.930	966	970	973	rBV	909955	1533710	45.90%	2.957%
50	14.024	975	978	981	rVV3	25464	47892	1.43%	0.092%
51	14.190	989	992	995	rVV5	16265	33065	0.99%	0.064%
52	14.366	1004	1007	1011	rBV4	19374	54923	1.64%	0.106%
53	14.437	1011	1013	1015	rVB3	17422	24355	0.73%	0.047%
54	14.485	1015	1017	1018	rBV2	10885	21253	0.64%	0.041%
55	14.579	1023	1025	1028	rBV4	16167	37654	1.13%	0.073%
56	14.710	1033	1036	1037	rVV2	41860	64422	1.93%	0.124%
57	14.745	1037	1039	1042	rVB2	52063	85396	2.56%	0.165%
58	14.959	1055	1057	1059	rBV3	13340	26350	0.79%	0.051%
59	15.302	1084	1086	1089	rVB3	49306	78507	2.35%	0.151%
60	15.432	1095	1097	1099	rBV3	19345	42055	1.26%	0.081%
61	15.516	1101	1104	1105	rVV3	21726	38699	1.16%	0.075%
62	15.645	1113	1115	1118	rVB4	26856	39556	1.18%	0.076%
63	15.704	1118	1120	1122	rBV2	34991	65977	1.97%	0.127%
64	15.763	1122	1125	1128	rVV	1040692	1698098	50.82%	3.273%
65	15.893	1132	1136	1139	rBV	1479922	2889477	86.48%	5.570%
66	16.094	1151	1153	1156	rVB3	73934	102874	3.08%	0.198%
67	17.033	1230	1232	1235	rBV4	55031	95701	2.86%	0.184%
68	18.746	1375	1380	1385	rVB	1453442	2820128	84.41%	5.436%
69	21.128	1587	1590	1597	rBV5	229263	674888	20.20%	1.301%
70	21.309	1602	1606	1612	rVB	862857	1706095	51.06%	3.289%
71	22.625	1719	1722	1732	rVB7	172644	532219	15.93%	1.026%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	24.871	1912	1919	1928	rVB	699243	2622640	78.50%	5.056%
73	25.113	1932	1940	1946	rVB	404877	1621195	48.52%	3.125%
74	25.571	1977	1979	1984	rBV5	49742	144009	4.31%	0.278%
75	27.251	2116	2121	2139	rVB7	177344	1039818	31.12%	2.004%
76	28.031	2184	2187	2194	rVB8	45211	173327	5.19%	0.334%
77	28.314	2207	2211	2212	rBV4	28487	79296	2.37%	0.153%
78	28.551	2225	2231	2238	rVB3	156191	642402	19.23%	1.238%
79	28.857	2254	2257	2261	rBV6	14561	57084	1.71%	0.110%
80	29.261	2288	2291	2293	rBV4	19628	52541	1.57%	0.101%
81	29.698	2324	2328	2329	rVB3	9893	18618	0.56%	0.036%
82	30.099	2359	2362	2364	rBV4	9860	19625	0.59%	0.038%
83	30.206	2369	2371	2373	rVB3	8513	14714	0.44%	0.028%
84	30.242	2373	2374	2376	rBV2	7931	15057	0.45%	0.029%
85	30.348	2376	2383	2386	rBV6	32492	146611	4.39%	0.283%
86	30.501	2395	2396	2398	rBV2	9158	11159	0.33%	0.022%
87	30.584	2398	2403	2413	rVB2	30101	159991	4.79%	0.308%
88	30.807	2418	2422	2423	rBV4	10456	20074	0.60%	0.039%
89	31.103	2445	2447	2451	rBV5	8166	22406	0.67%	0.043%
90	31.185	2451	2454	2455	rVV3	8824	17752	0.53%	0.034%
91	31.610	2488	2490	2492	rBV3	9159	14229	0.43%	0.027%
92	31.977	2519	2521	2523	rBV3	11810	26806	0.80%	0.052%
93	32.343	2549	2552	2555	rBV5	9528	24914	0.75%	0.048%
94	32.556	2567	2570	2571	rBV3	7131	16384	0.49%	0.032%
95	33.111	2615	2617	2620	rVB3	6897	12170	0.36%	0.023%
96	33.477	2646	2648	2652	rVB4	8095	15211	0.46%	0.029%
97	33.607	2657	2659	2661	rVV3	8210	13893	0.42%	0.027%
98	33.654	2661	2663	2665	rVV3	8706	18433	0.55%	0.036%
99	33.772	2669	2673	2675	rVV4	4745	13541	0.41%	0.026%
100	33.890	2680	2683	2686	rVB3	9861	22598	0.68%	0.044%

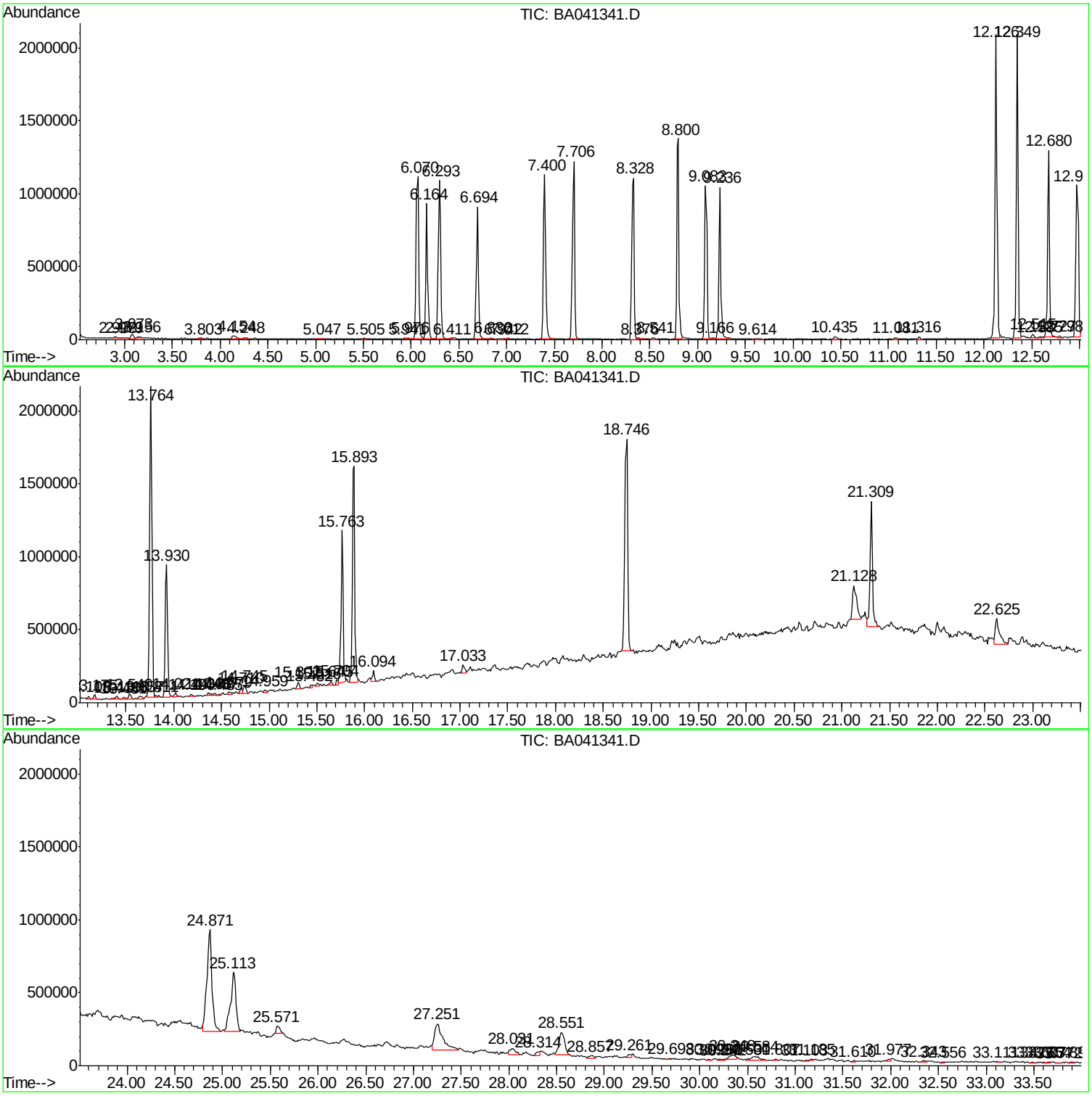
Sum of corrected areas: 51874944

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On    : 21 Oct 2008   3:46
Operator  : HNP
Sample    : Z4923-06
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

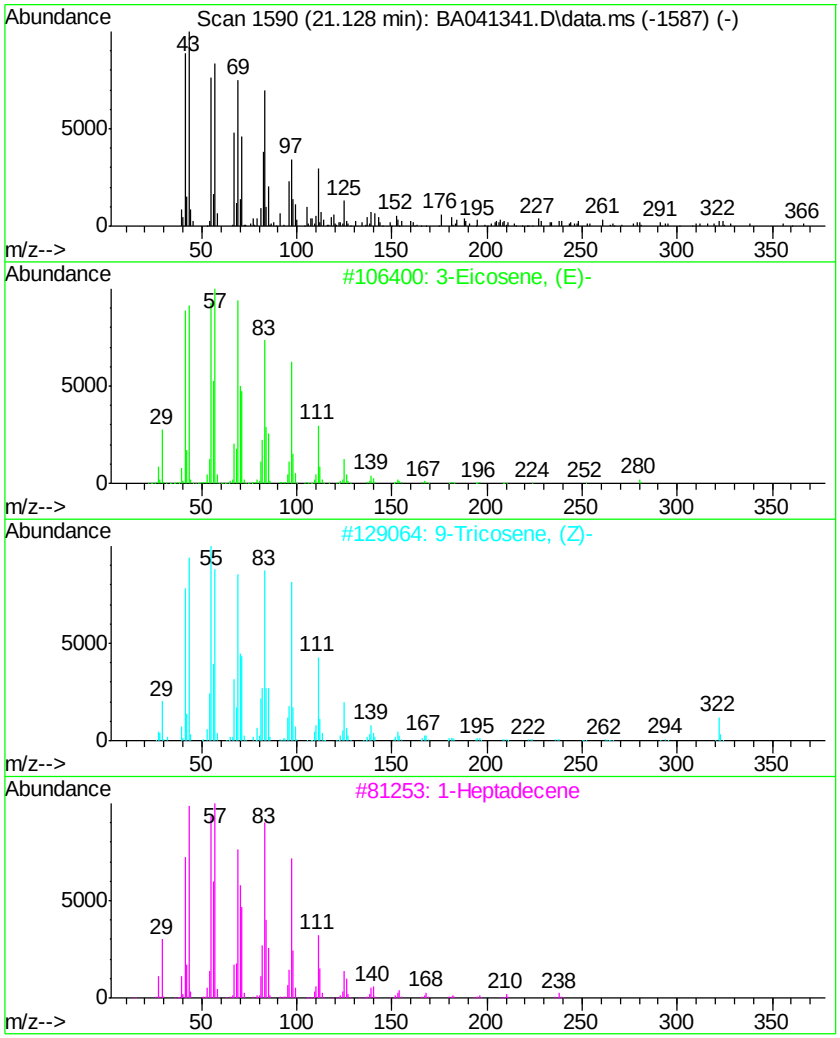
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

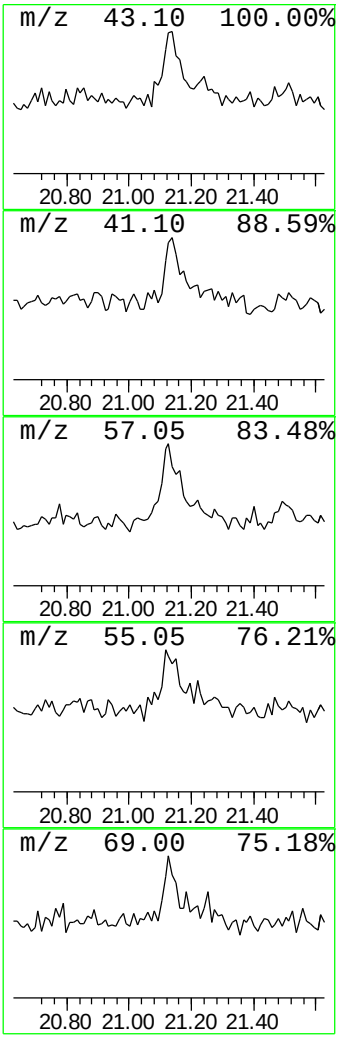
****

Peak Number 1 3-Eicosene, (E)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.130	7.91 ng/ul	674888	Chrysene-d12	21.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	86
2	9-Tricosene, (Z)-	322	C23H46	027519-02-4	68
3	1-Heptadecene	238	C17H34	006765-39-5	62
4	9-Tricosene, (Z)-	322	C23H46	027519-02-4	62
5	1-Eicosanol	298	C20H42O	000629-96-9	49





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

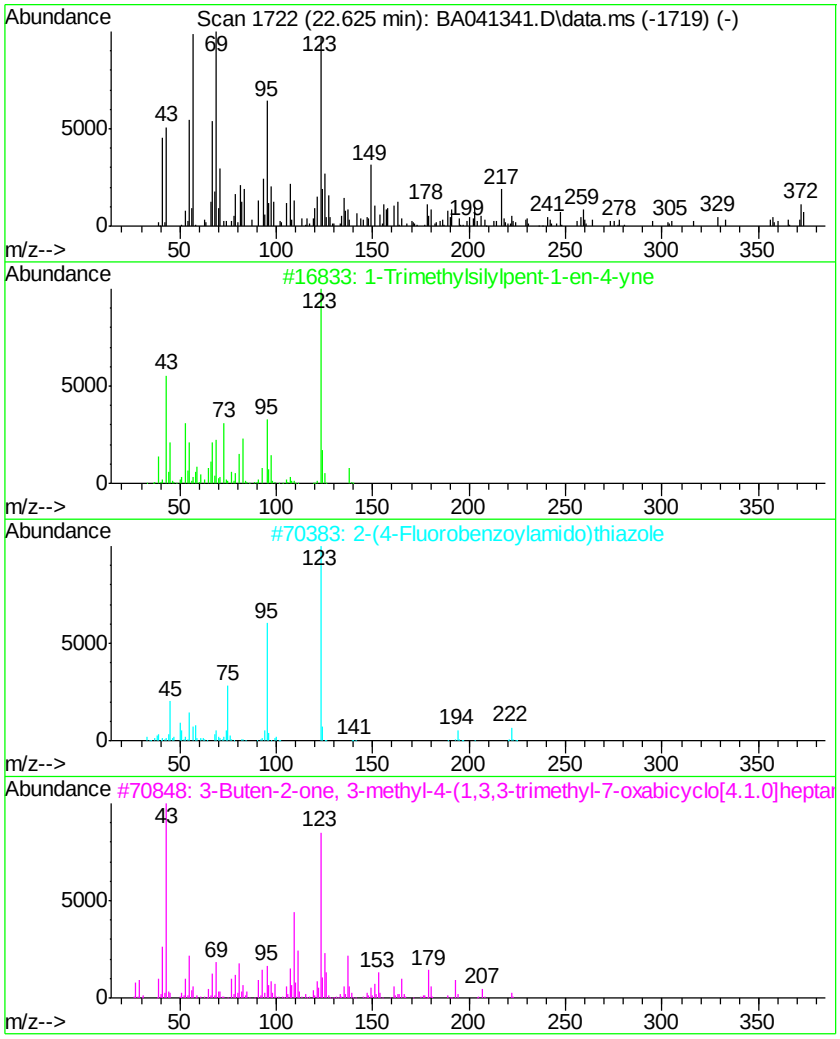
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

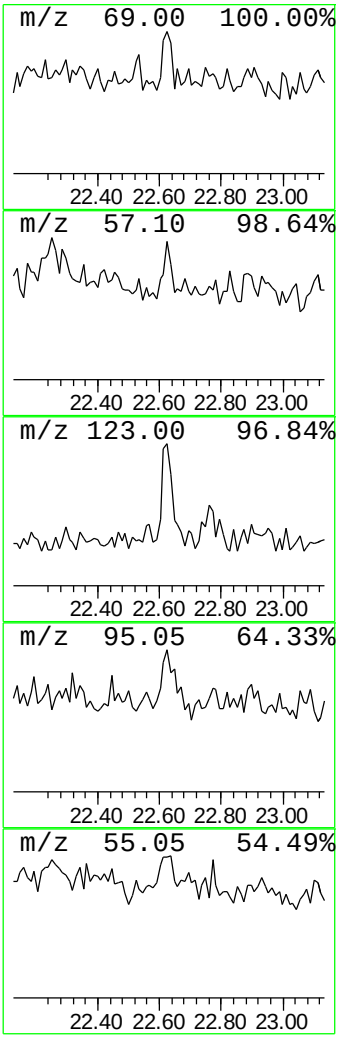
****

Peak Number 2 unknown22.63 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.630	6.24 ng/ul	532219	Chrysene-d12	21.309

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Trimethylsilylpent-1-en-4-yne	138	C8H14Si	079516-25-9	35
2	2-(4-Fluorobenzoylamido)thiazole	222	C10H7FN2OS	313376-92-0	27
3	3-Buten-2-one, 3-methyl-4-(1,3,3...	222	C14H22O2	097371-44-3	27
4	3-Buten-2-one, 3-methyl-4-(1,3,3...	222	C14H22O2	097371-44-3	27
5	Benzoyl chloride, 3-fluoro-	158	C7H4ClFO	001711-07-5	22





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

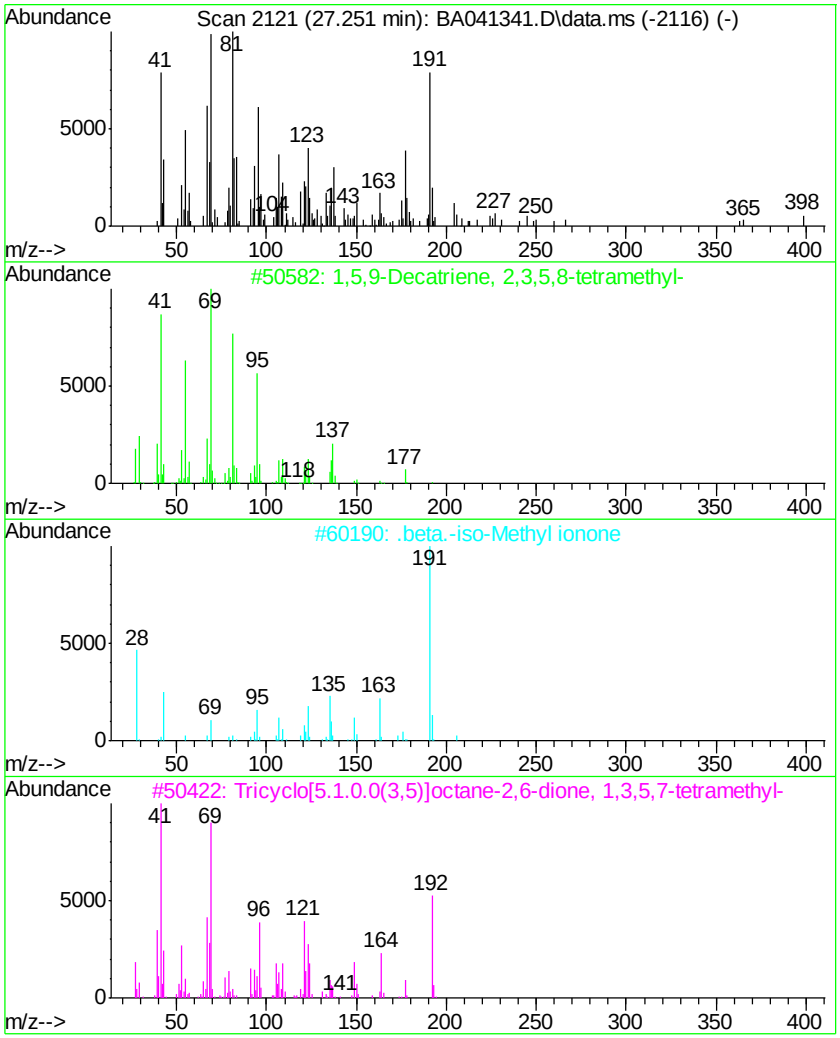
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

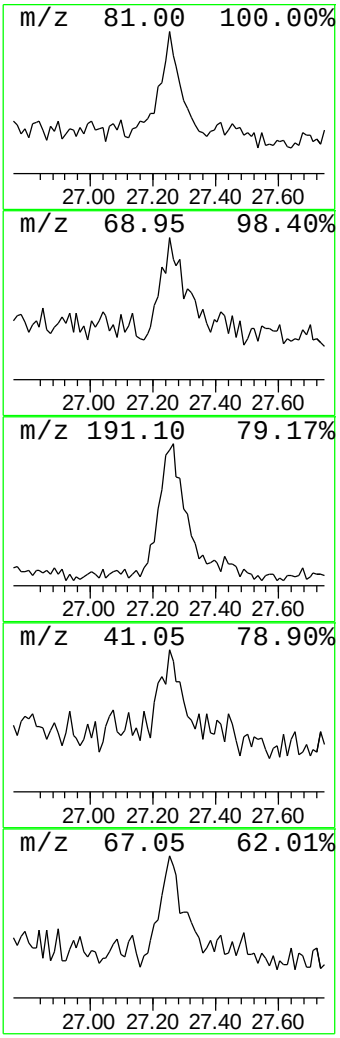
****

Peak Number 3 unknown27.25 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.250	12.83 ng/ul	1039820	Perylene-d12	25.124

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5,9-Decatriene, 2,3,5,8-tetram...	192	C14H24	230646-72-7	43
2	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	38
3	Tricyclo[5.1.0.0(3,5)]octane-2,6...	192	C12H16O2	016650-33-2	30
4	Silane, [(2-chlorocyclohexyl)oxy...	206	C9H19ClOSi	007742-88-3	27
5	Cyclohexene, 1-methyl-4-(5-methy...	204	C15H24	000495-61-4	25





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

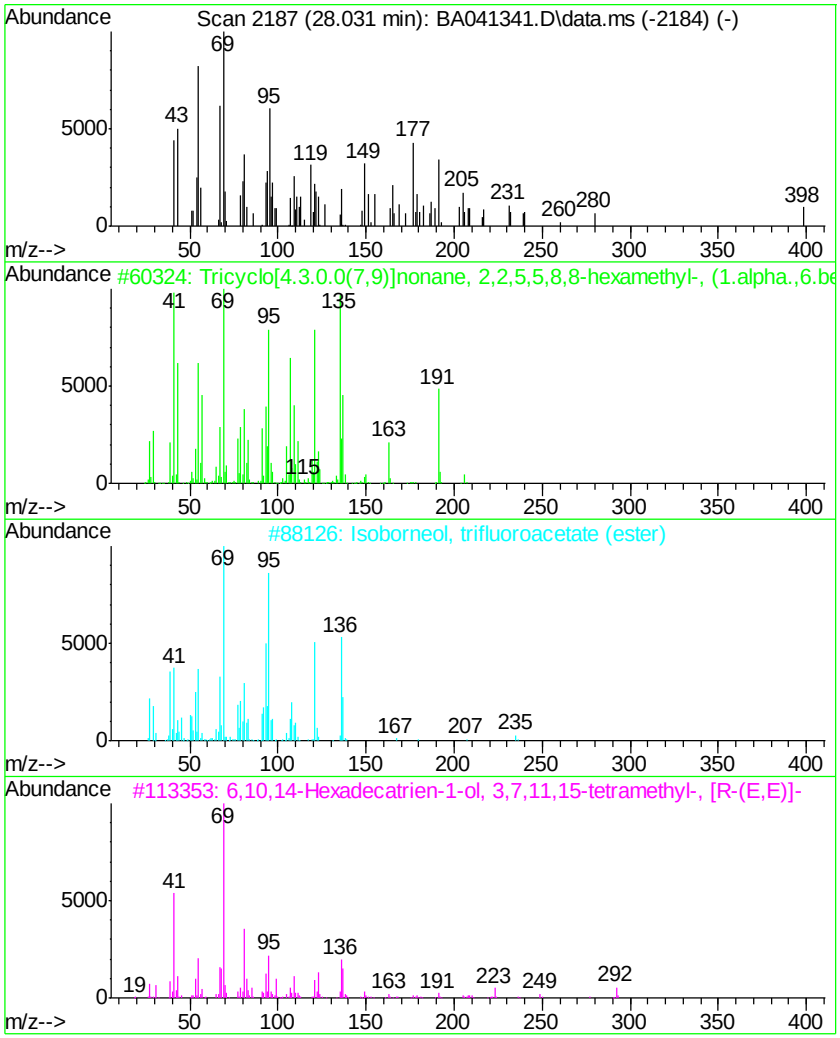
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

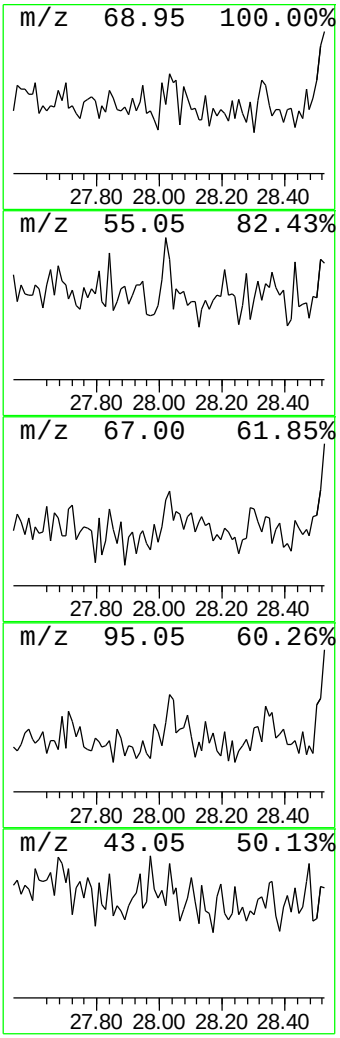
****

Peak Number 4 unknown28.03 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
28.030	2.14 ng/ul	173327	Perylene-d12	25.124

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[4.3.0.0(7,9)]nonane, 2,...	206	C15H26	054832-82-5	38
2	Isoborneol, trifluoroacetate (es...	250	C12H17F3O2	1000245-88-0	35
3	6,10,14-Hexadecatrien-1-ol, 3,7,...	292	C20H36O	036237-66-8	27
4	(1-Ethyl-3,7-dimethylocta-2,6-di...	274	C18H26S	1000190-57-5	27
5	Acetic acid, 4-acetoxy-3-(3,7,11...	398	C25H34O4	1000193-98-7	25





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On    : 21 Oct 2008   3:46
Operator  : HNP
Sample    : Z4923-06
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

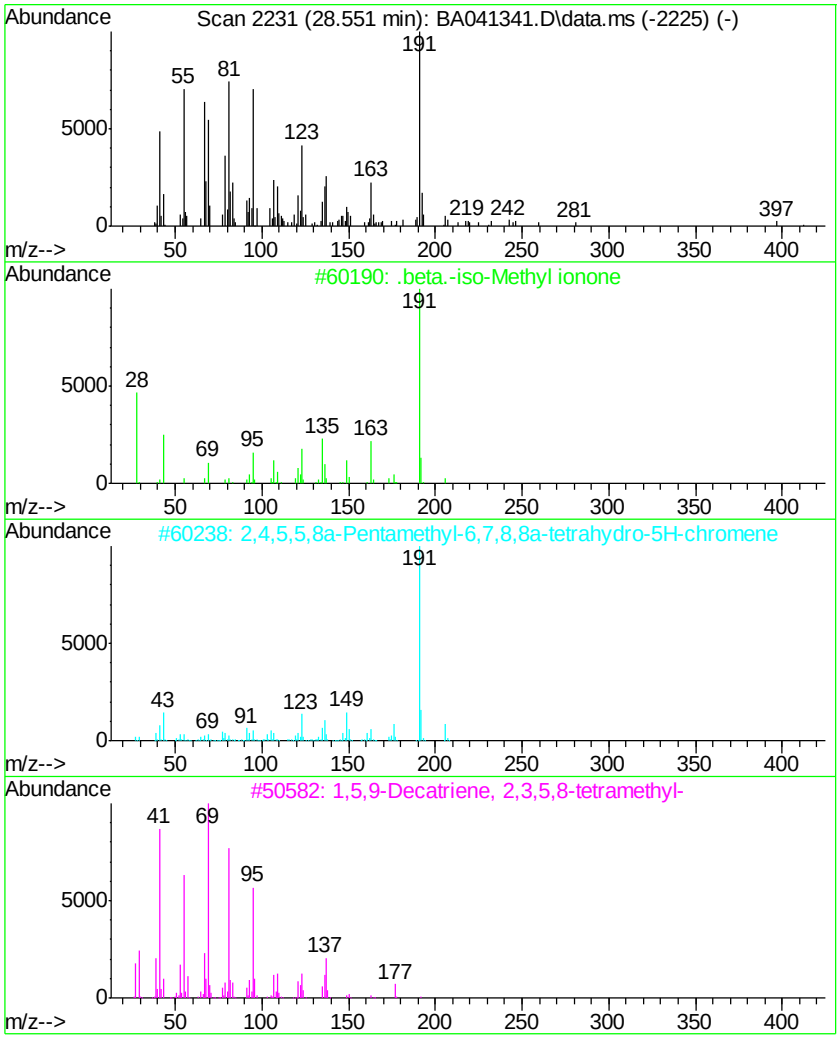
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

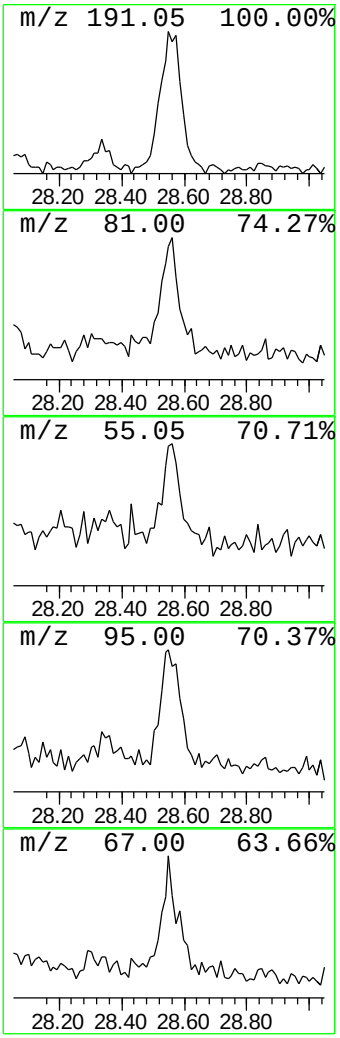
****

Peak Number 5 unknown28.55 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
28.550	7.93 ng/ul	642402	Perylene-d12	25.124

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	49
2	2,4,5,5,8a-Pentamethyl-6,7,8,8a-...	206	C14H22O	1000195-40-9	46
3	1,5,9-Decatriene, 2,3,5,8-tetram...	192	C14H24	230646-72-7	43
4	4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H36O	056882-09-8	38
5	2,2,4-Trimethyl-3-(3,8,12,16-tet...	428	C30H52O	1000194-01-4	27





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041341.D
Acq On : 21 Oct 2008 3:46
Operator : HNP
Sample : Z4923-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
3-Eicosene, (E)-	21.130	7.9	ng/ul	674888	5	21.309	1706100	20.0
unknown22.63	22.630	6.2	ng/ul	532219	5	21.309	1706100	20.0
unknown27.25	27.250	12.8	ng/ul	1039820	6	25.124	1621200	20.0
unknown28.03	28.030	2.1	ng/ul	173327	6	25.124	1621200	20.0
unknown28.55	28.550	7.9	ng/ul	642402	6	25.124	1621200	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-07

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041328.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 21.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.43 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	43	J
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	210	U
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-07

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041328.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 21.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.43 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC3-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-07

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041328.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 21.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.43 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

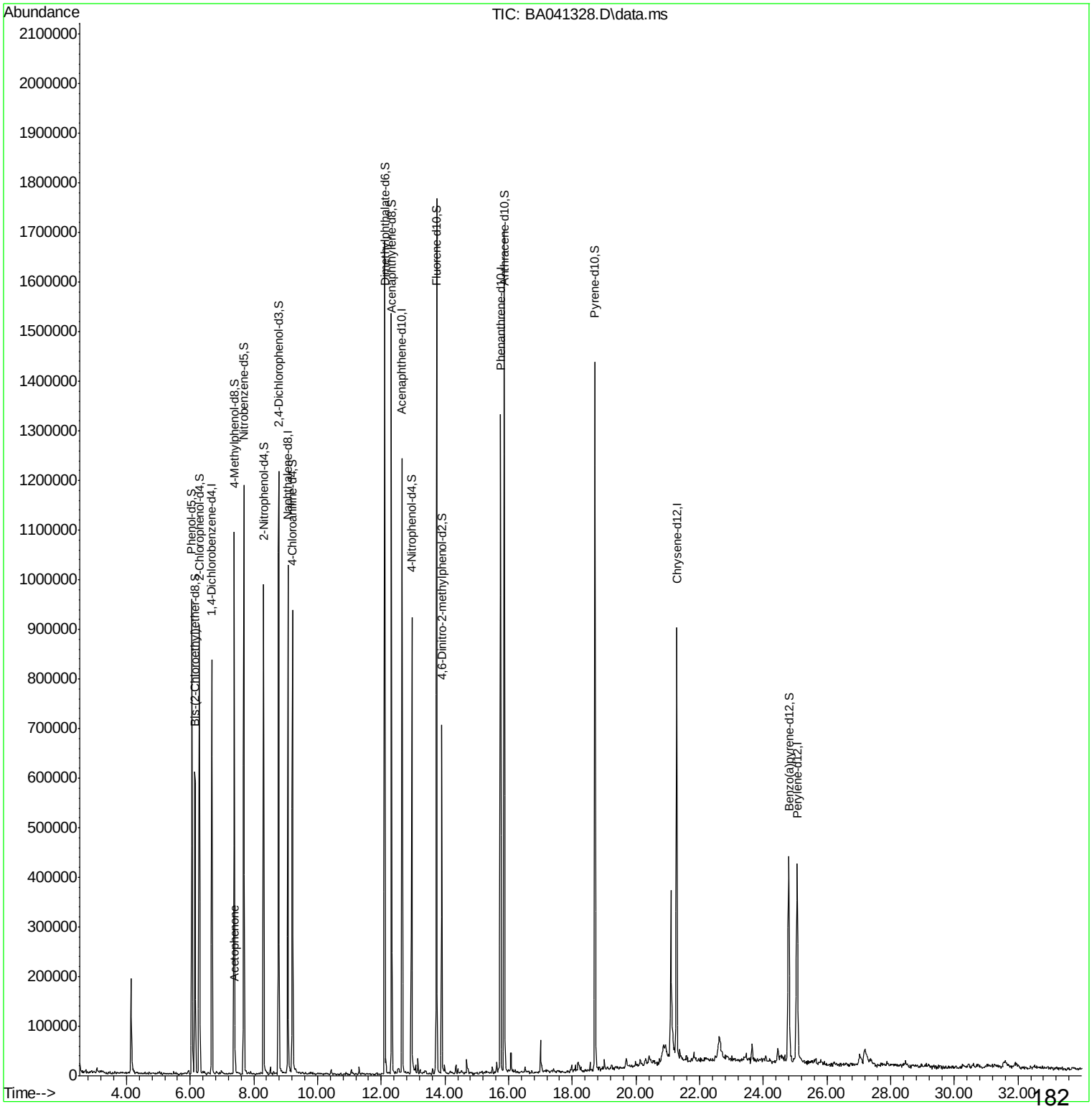
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.14	220	JN
02.	74685-33-9	3-Eicosene, (E)-	21.09	490	JNB
03.		unknown27.19	27.19	120	J
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

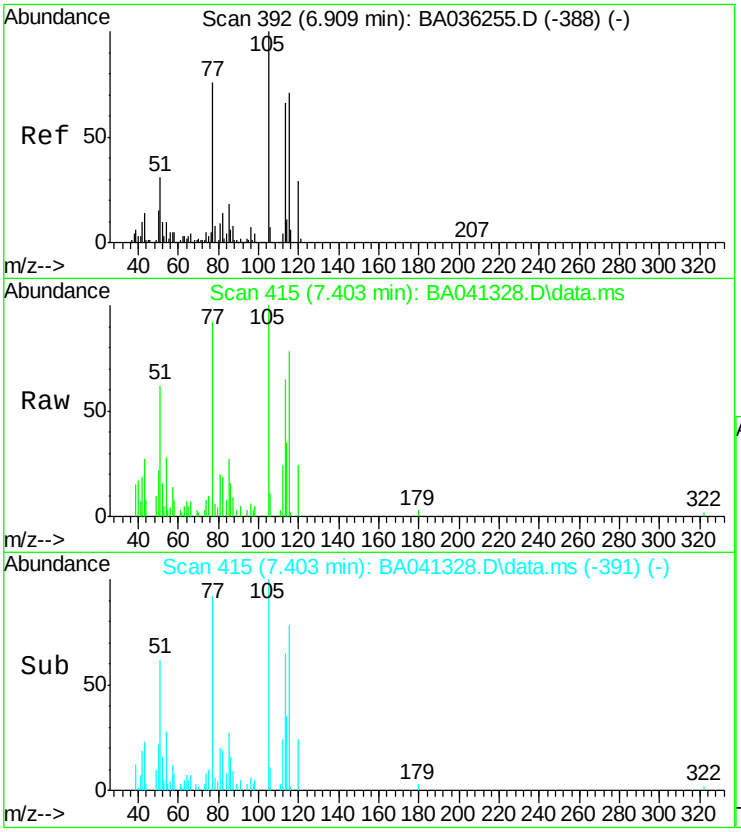
[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 01:54:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

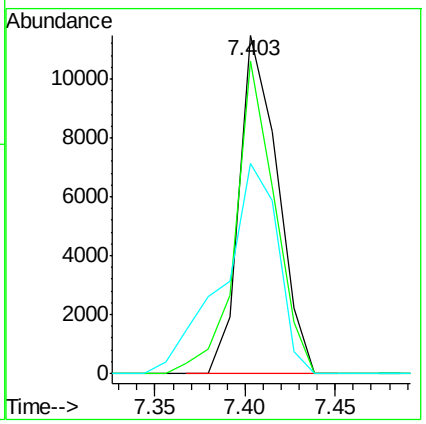




#12
Acetophenone
Concen: 1.03 ng/ul
RT: 7.403 min Scan# 415
Delta R.T. -0.019 min
Lab File: BA041328.D
Acq: 20 Oct 2008 18:46

Tgt Ion:105 Resp: 16895

Ion	Ratio	Lower	Upper
105	100		
77	92.3	69.4	104.2
51	62.0	42.1	63.1



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 01:54:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.676	152	205092	20.00	ng/ul	0.00
16) Naphthalene-d8	9.066	136	721783	20.00	ng/ul	-0.02
33) Acenaphthene-d10	12.653	164	511685	20.00	ng/ul	-0.02
59) Phenanthrene-d10	15.747	188	948083	20.00	ng/ul	0.00
73) Chrysene-d12	21.282	240	678047	20.00	ng/ul	0.00
81) Perylene-d12	25.062	264	519780	20.00	ng/ul	-0.01
System Monitoring Compounds						
3) Phenol-d5	6.051	99	359099	28.92	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.145	67	273419	32.48	ng/ul	0.00
7) 2-Chlorophenol-d4	6.287	132	348785	33.05	ng/ul	0.00
11) 4-Methylphenol-d8	7.379	113	249836	29.66	ng/ul	0.00
17) Nitrobenzene-d5	7.686	128	187212	29.30	ng/ul	0.00
20) 2-Nitrophenol-d4	8.311	143	234439	29.80	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.782	165	377893	25.96	ng/ul	0.00
27) 4-Chloroaniline-d4	9.218	131	343583	23.87	ng/ul	0.00
41) Dimethylphthalate-d6	12.111	166	1093429	32.09	ng/ul	0.00
44) Acenaphthylene-d8	12.335	160	1213414	29.29	ng/ul	0.00
49) 4-Nitrophenol-d4	12.960	143	207260	29.84	ng/ul	0.00
55) Fluorene-d10	13.737	176	748292	27.30	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.901	200	162130	16.52	ng/ul	-0.02
68) Anthracene-d10	15.866	188	1132516	24.95	ng/ul	0.00
74) Pyrene-d10	18.708	212	1067167	36.02	ng/ul	-0.01
85) Benzo(a)pyrene-d12	24.802	264	500815	17.69	ng/ul	-0.02
Target Compounds						Qvalue
12) Acetophenone	7.403	105	16895	1.03	ng/ul	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041328.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.072	43	47	50	rBV4	11180	26727	0.94%	0.062%
2	3.179	54	56	57	rVV	6119	9292	0.33%	0.021%
3	3.261	60	63	67	rVV3	4715	13105	0.46%	0.030%
4	3.637	93	95	98	rVB2	5617	11185	0.39%	0.026%
5	4.144	133	138	145	rVV	192502	375569	13.24%	0.865%
6	5.957	290	292	297	rVB3	6618	9184	0.32%	0.021%
7	6.051	297	300	305	rBV	957240	1578047	55.65%	3.636%
8	6.145	305	308	316	rVV	608919	1089215	38.41%	2.510%
9	6.287	316	320	327	rVB	903852	1567742	55.29%	3.613%
10	6.676	350	353	358	rBV	833512	1416632	49.96%	3.264%
11	6.817	361	365	368	rBV2	4703	13416	0.47%	0.031%
12	6.922	371	374	377	rBV2	4529	9177	0.32%	0.021%
13	6.981	377	379	383	rBV3	6423	15024	0.53%	0.035%
14	7.379	410	413	420	rVB	1090105	1583723	55.85%	3.649%
15	7.686	435	439	442	rBV	1187022	1665089	58.72%	3.837%
16	7.898	455	457	459	rBV2	5098	8928	0.31%	0.021%
17	8.216	482	484	488	rBV2	4668	10724	0.38%	0.025%
18	8.311	488	492	495	rBV	986570	1553270	54.78%	3.579%
19	8.523	504	510	513	rBV2	15043	27015	0.95%	0.062%
20	8.629	516	519	521	rBV3	7330	15094	0.53%	0.035%
21	8.782	528	532	535	rBV	1215312	1977584	69.74%	4.557%
22	9.066	553	556	559	rBV	1023217	1595833	56.28%	3.677%
23	9.218	565	569	572	rBV	930828	1306875	46.09%	3.011%
24	9.442	585	588	591	rVB2	3870	8765	0.31%	0.020%
25	10.420	667	671	677	rVB4	10619	24986	0.88%	0.058%
26	11.068	722	726	727	rBV2	10628	21732	0.77%	0.050%
27	11.302	744	746	751	rVV3	15533	25385	0.90%	0.058%
28	11.384	751	753	758	rVV3	3420	10519	0.37%	0.024%
29	11.865	790	794	796	rBV2	3320	10929	0.39%	0.025%
30	12.111	811	815	817	rBV	1679896	2666583	94.04%	6.145%
31	12.147	817	818	822	rVB2	29877	33297	1.17%	0.077%
32	12.324	830	833	837	rBV	1532099	2633284	92.86%	6.068%
33	12.547	847	852	855	rBV4	10304	34110	1.20%	0.079%
34	12.653	858	861	865	rBV	1237280	2051892	72.36%	4.728%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.960	882	887	891	rBV	920476	1588881	56.03%	3.661%
36	13.078	896	897	901	rVB2	16515	21669	0.76%	0.050%
37	13.148	901	903	906	rVB2	31776	51024	1.80%	0.118%
38	13.231	906	910	913	rBV4	9168	22495	0.79%	0.052%
39	13.325	915	918	921	rBV3	4352	13602	0.48%	0.031%
40	13.372	921	922	924	rBV2	5177	8702	0.31%	0.020%
41	13.524	931	935	938	rBV2	3432	9998	0.35%	0.023%
42	13.619	940	943	945	rBV3	12810	23108	0.81%	0.053%
43	13.737	947	953	957	rBV	1764657	2772988	97.79%	6.390%
44	13.901	964	967	970	rBV	702646	1023275	36.09%	2.358%
45	13.995	973	975	978	rVB3	16341	32356	1.14%	0.075%
46	14.159	985	989	992	rBV3	6689	19424	0.69%	0.045%
47	14.347	1001	1005	1008	rBV3	18238	33597	1.18%	0.077%
48	14.406	1008	1010	1013	rVV2	10686	15438	0.54%	0.036%
49	14.523	1016	1020	1027	rVB7	6872	25316	0.89%	0.058%
50	14.688	1032	1034	1040	rVB4	29527	64138	2.26%	0.148%
51	15.088	1066	1068	1071	rBV2	3620	10264	0.36%	0.024%
52	15.287	1083	1085	1087	rBV3	5090	10276	0.36%	0.024%
53	15.488	1100	1102	1106	rVB3	15256	25872	0.91%	0.060%
54	15.629	1111	1114	1116	rBV	20707	29468	1.04%	0.068%
55	15.688	1116	1119	1120	rBV2	9326	16730	0.59%	0.039%
56	15.747	1120	1124	1127	rVV	1317689	2165003	76.35%	4.989%
57	15.795	1127	1128	1130	rVB	12835	9351	0.33%	0.022%
58	15.866	1130	1134	1137	rBV	1694592	2835614	100.00%	6.534%
59	16.076	1149	1152	1156	rBV2	37811	66980	2.36%	0.154%
60	16.206	1161	1163	1166	rVB2	7705	14158	0.50%	0.033%
61	16.512	1188	1189	1193	rBV3	10099	15749	0.56%	0.036%
62	16.736	1205	1208	1213	rVV4	6121	13750	0.48%	0.032%
63	17.008	1228	1231	1238	rVV2	66433	110468	3.90%	0.255%
64	17.231	1246	1250	1253	rBV4	3744	11060	0.39%	0.025%
65	17.409	1264	1265	1271	rVB4	6889	10834	0.38%	0.025%
66	17.987	1308	1314	1317	rBV5	16052	46100	1.63%	0.106%
67	18.093	1321	1323	1325	rVV	15511	21872	0.77%	0.050%
68	18.188	1328	1331	1336	rVV6	18953	64964	2.29%	0.150%
69	18.270	1336	1338	1343	rVB4	11095	25418	0.90%	0.059%
70	18.400	1347	1349	1351	rBV2	5786	11347	0.40%	0.026%
71	18.554	1360	1362	1364	rBV	18596	23929	0.84%	0.055%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	18.708	1371	1375	1379	rBV	1425942	2699328	95.19%	6.220%
73	18.838	1384	1386	1389	rVB3	8580	17800	0.63%	0.041%
74	19.004	1398	1400	1404	rBV3	21550	33250	1.17%	0.077%
75	19.240	1418	1420	1422	rVB3	8031	12198	0.43%	0.028%
76	19.359	1427	1430	1431	rBV3	7974	16456	0.58%	0.038%
77	19.702	1456	1459	1465	rVB5	13613	31525	1.11%	0.073%
78	19.986	1481	1483	1485	rBV3	9536	13656	0.48%	0.031%
79	20.126	1493	1495	1498	rBV4	10077	21615	0.76%	0.050%
80	20.742	1546	1547	1549	rBV2	10692	14013	0.49%	0.032%
81	21.094	1573	1577	1585	rBV2	336312	983943	34.70%	2.267%
82	21.282	1589	1593	1597	rVV	865106	1680528	59.27%	3.872%
83	21.377	1599	1601	1603	rBV3	17903	28313	1.00%	0.065%
84	21.815	1635	1638	1639	rBV2	14630	23168	0.82%	0.053%
85	23.647	1789	1793	1798	rBV2	40174	125303	4.42%	0.289%
86	24.071	1827	1829	1833	rBV4	11968	20284	0.72%	0.047%
87	24.802	1884	1891	1899	rBV	413127	1348206	47.55%	3.107%
88	25.062	1907	1913	1919	rVB	391931	1287828	45.42%	2.968%
89	25.403	1940	1942	1944	rBV3	7976	12462	0.44%	0.029%
90	27.020	2075	2079	2081	rBV4	19449	49159	1.73%	0.113%
91	27.186	2088	2093	2104	rBV10	29424	186432	6.57%	0.430%
92	27.883	2150	2152	2153	rBV2	8822	10679	0.38%	0.025%
93	28.650	2216	2217	2219	rBV2	7704	15457	0.55%	0.036%
94	29.123	2255	2257	2258	rBV	7670	9667	0.34%	0.022%
95	29.407	2279	2281	2283	rVB3	7347	13531	0.48%	0.031%
96	29.455	2283	2285	2287	rBV3	6364	13350	0.47%	0.031%
97	29.925	2323	2325	2328	rVB3	6387	11353	0.40%	0.026%
98	30.255	2351	2353	2355	rBV3	8926	15180	0.54%	0.035%
99	31.555	2459	2463	2465	rBV4	10462	28584	1.01%	0.066%
100	33.385	2616	2618	2620	rVB2	7307	9027	0.32%	0.021%

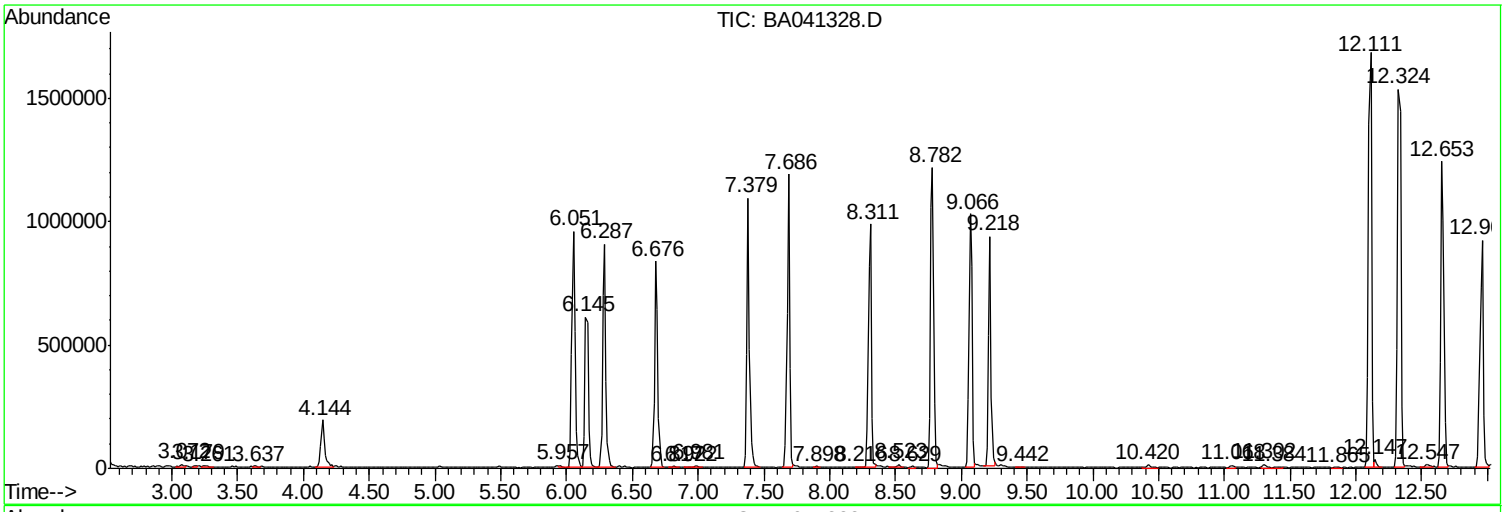
Sum of corrected areas: 43397445

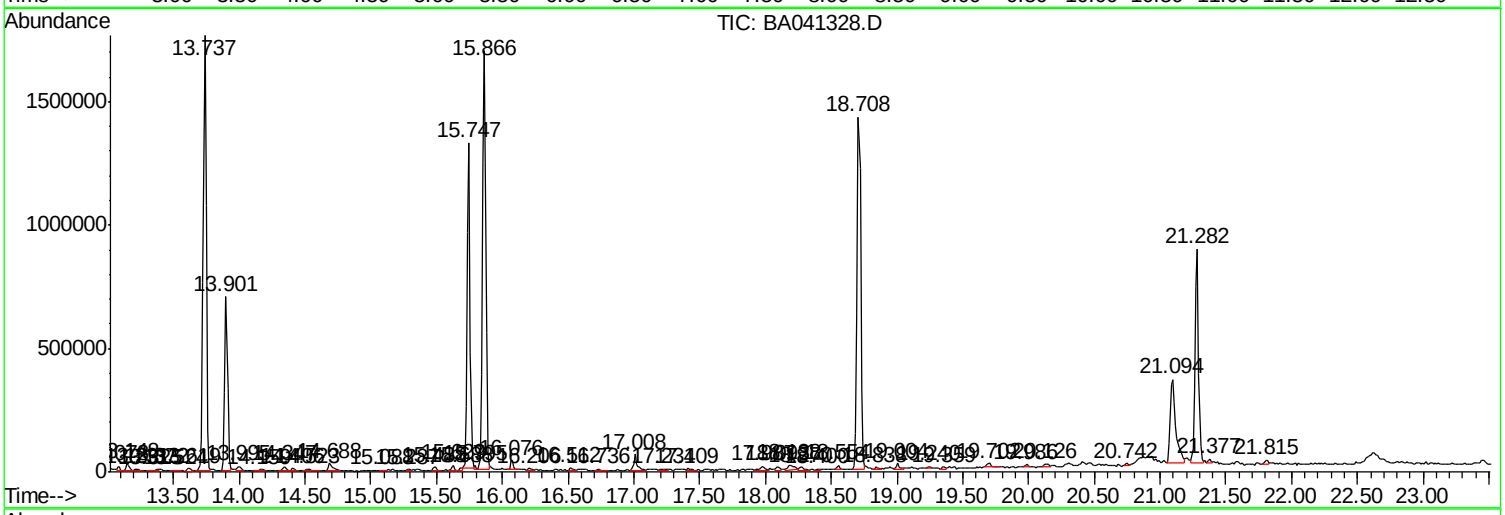
LSC Report - Integrated Chromatogram

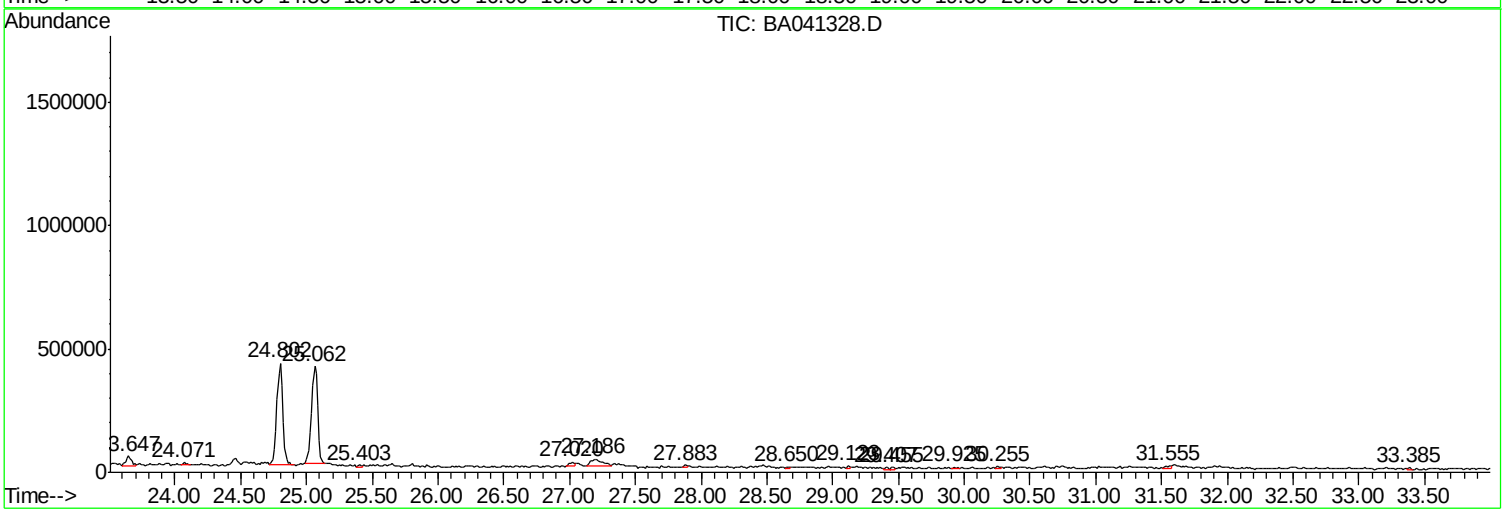
Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

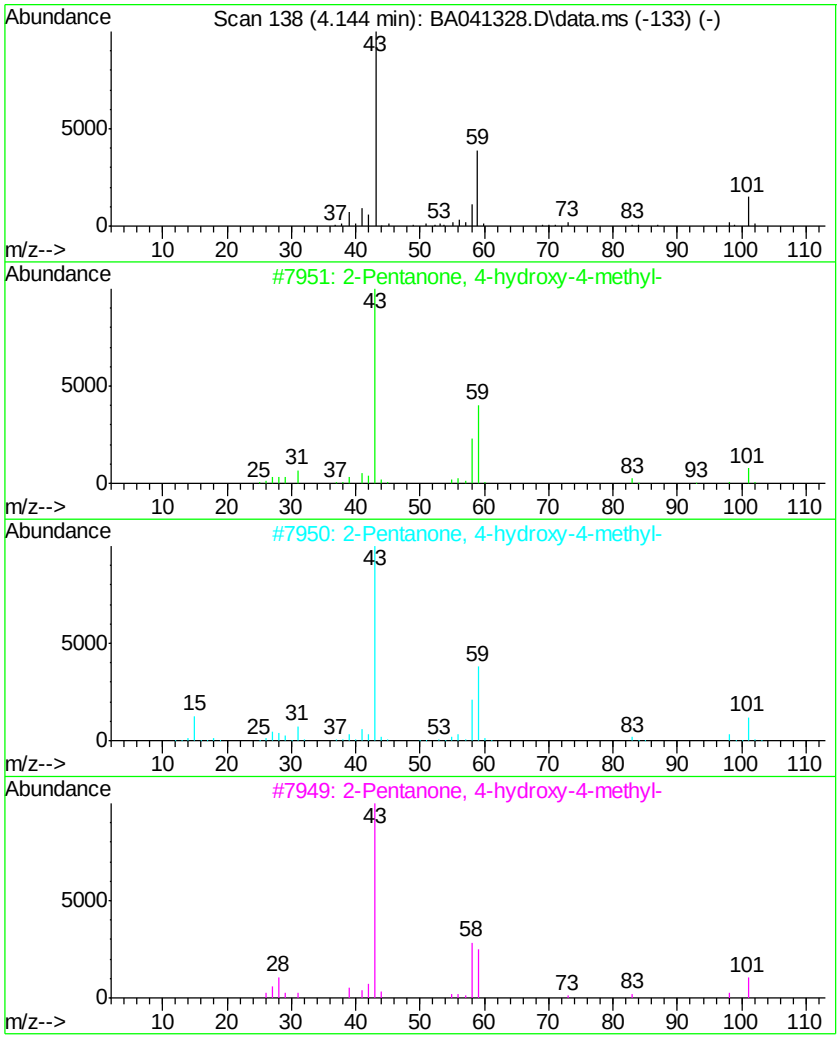
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

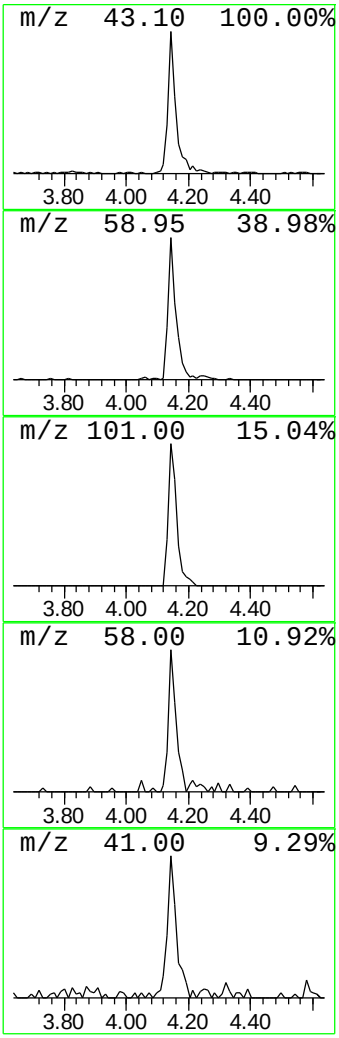
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.140	5.30 ng/ul	375569	1,4-Dichlorobenzene-d4	6.676

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	Acetamide, N-(aminocarbonyl)-	102	C3H6N2O2	000591-07-1	9





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

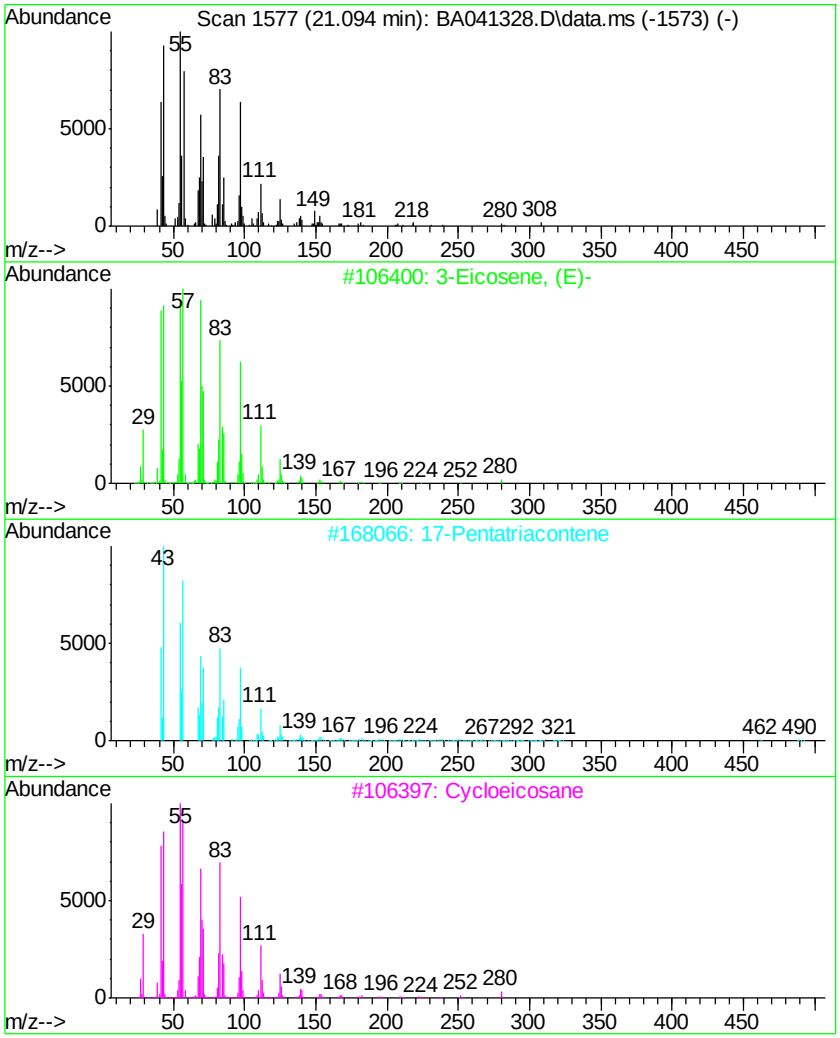
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

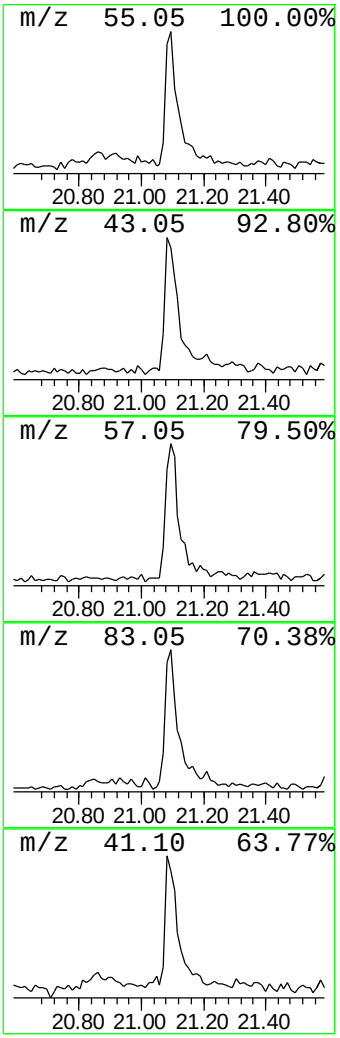
****

Peak Number 2 3-Eicosene, (E)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.090	11.71 ng/ul	983943	Chrysene-d12	21.282

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	86
2	17-Pentatriacontene	491	C35H70	006971-40-0	83
3	Cycloeicosane	280	C20H40	000296-56-0	81
4	1-Docosanol	326	C22H46O	000661-19-8	72
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	70





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On    : 20 Oct 2008  18:46
Operator  : HNP
Sample    : Z4923-07
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

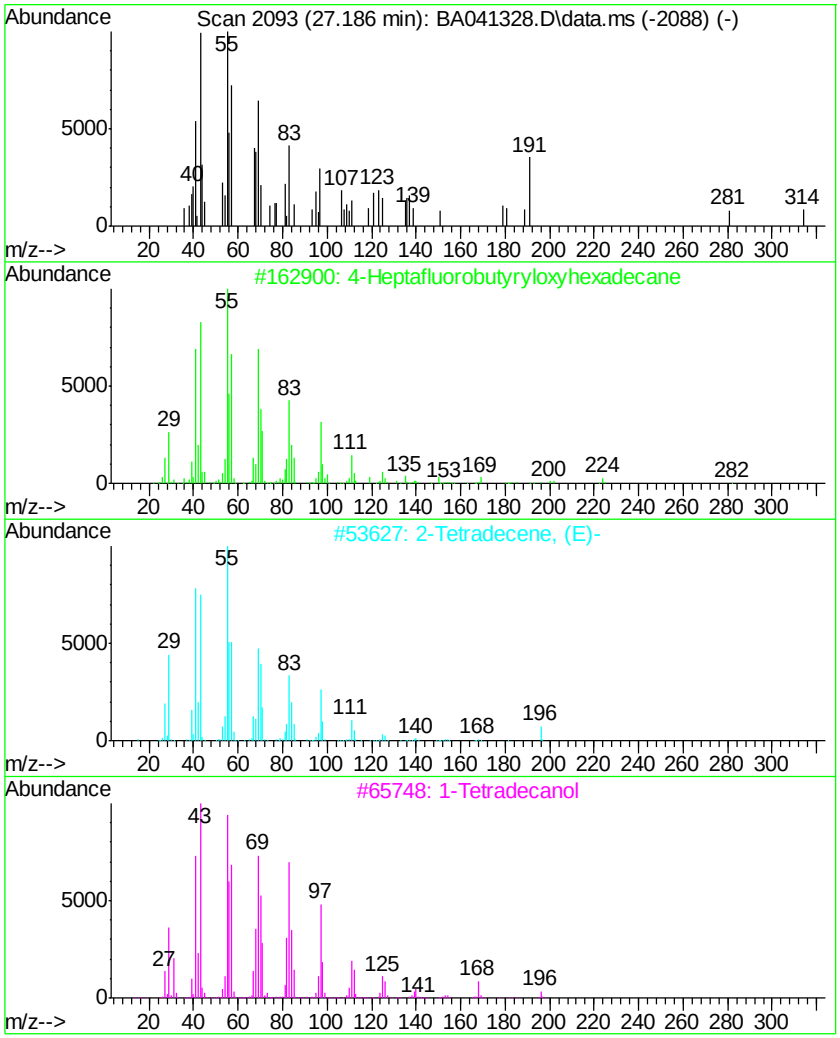
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

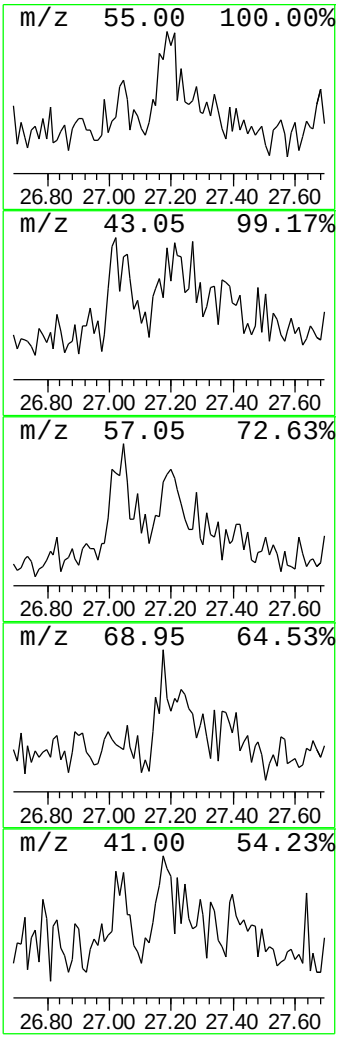
****

Peak Number 3 unknown27.19 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.190	2.90 ng/ul	186432	Perylene-d12	25.062

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptafluorobutyryloxyhexadecane	438	C20H33F7O2	1000282-97-2	38
2	2-Tetradecene, (E)-	196	C14H28	035953-53-8	38
3	1-Tetradecanol	214	C14H30O	000112-72-1	38
4	Cyclopentane, decyl-	210	C15H30	001795-21-7	38
5	1-Tridecanol	200	C13H28O	000112-70-9	35





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041328.D
Acq On : 20 Oct 2008 18:46
Operator : HNP
Sample : Z4923-07
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.140	5.3	ng/ul	375569	1	6.676	1416630	20.0
3-Eicosene, (E)-	21.090	11.7	ng/ul	983943	5	21.282	1680530	20.0
unknown27.19	27.190	2.9	ng/ul	186432	6	25.062	1287830	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-2B[4.0-4.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-08

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041329.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.30 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	43	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-2B[4.0-4.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-08

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041329.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.30 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC3-2B[4.0-4.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-08

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041329.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.30 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

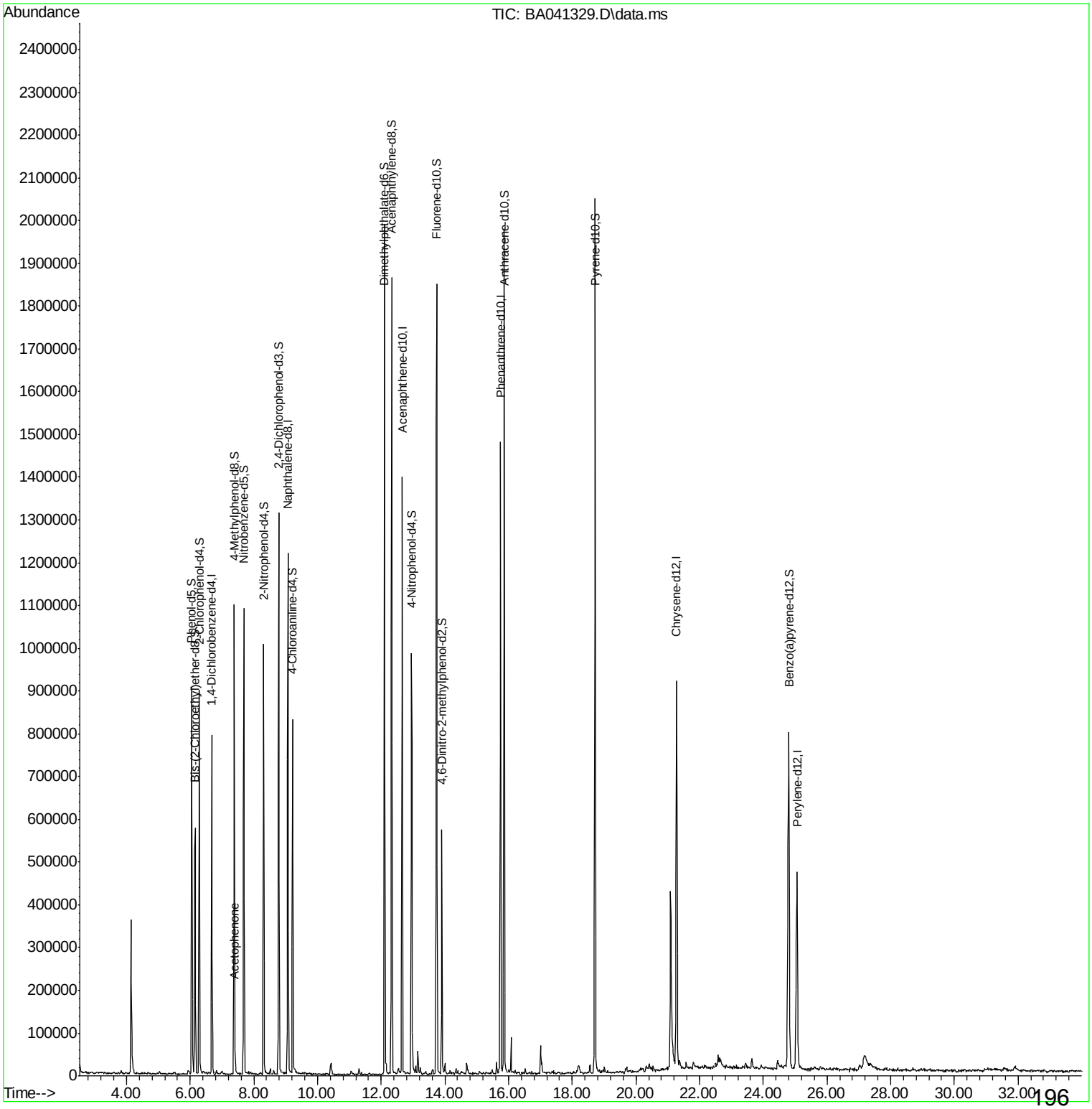
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.14	340	JN
02.	1599-67-3	1-Docosene	21.09	500	JN
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

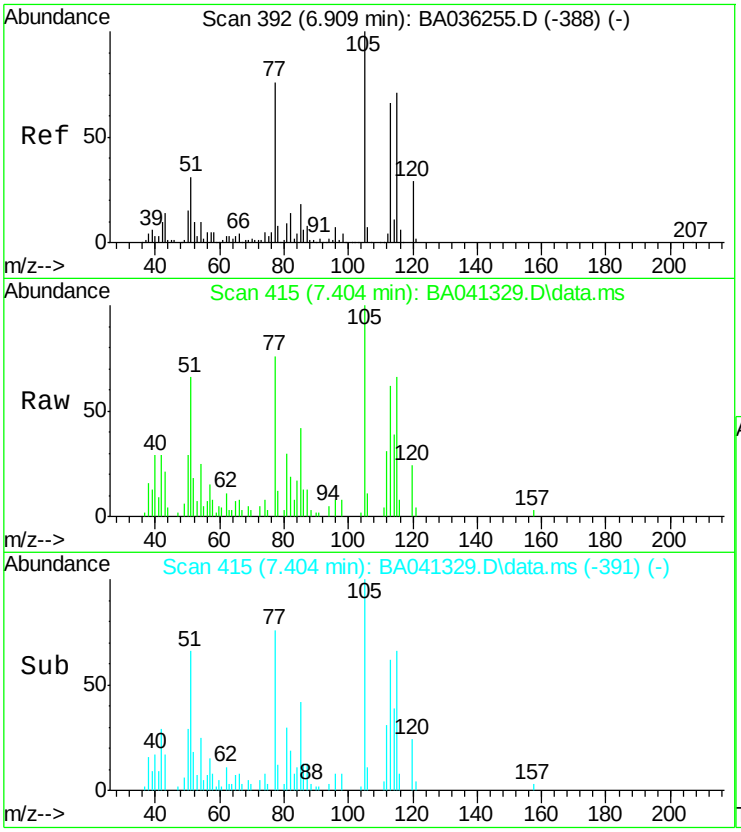
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 01:59:04 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

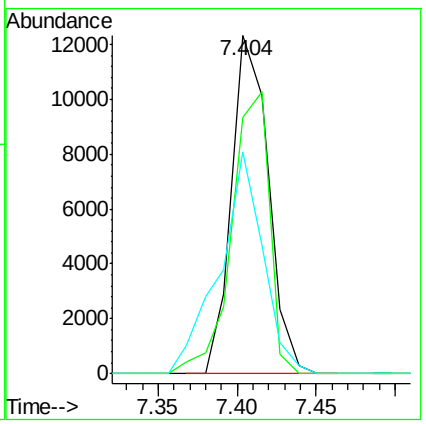




#12
Acetophenone
Concen: 1.09 ng/ul
RT: 7.404 min Scan# 415
Delta R.T. -0.019 min
Lab File: BA041329.D
Acq: 20 Oct 2008 19:28

Tgt Ion:105 Resp: 19824

Ion	Ratio	Lower	Upper
105	100		
77	75.7	69.4	104.2
51	65.6	42.1	63.1#



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 01:59:04 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.685	152	226301	20.00	ng/ul	0.00
16) Naphthalene-d8	9.074	136	751074	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.660	164	524024	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.745	188	1010056	20.00	ng/ul	-0.01
73) Chrysene-d12	21.275	240	716231	20.00	ng/ul	-0.01
81) Perylene-d12	25.064	264	585595	20.00	ng/ul	-0.01
System Monitoring Compounds						
3) Phenol-d5	6.049	99	348706	25.45	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.156	67	242209	26.07	ng/ul	0.00
7) 2-Chlorophenol-d4	6.286	132	318135	27.32	ng/ul	0.00
11) 4-Methylphenol-d8	7.380	113	248015	26.68	ng/ul	0.00
17) Nitrobenzene-d5	7.687	128	186227	28.01	ng/ul	0.00
20) 2-Nitrophenol-d4	8.310	143	200863	24.54	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.780	165	361454	23.86	ng/ul	0.00
27) 4-Chloroaniline-d4	9.215	131	317553	21.20	ng/ul	0.00
41) Dimethylphthalate-d6	12.108	166	1144517	32.79	ng/ul	0.00
44) Acenaphthylene-d8	12.331	160	1257004	29.63	ng/ul	0.00
49) 4-Nitrophenol-d4	12.955	143	224826	31.61	ng/ul	0.00
55) Fluorene-d10	13.745	176	816467	29.09	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.910	200	154055	14.74	ng/ul	0.00
68) Anthracene-d10	15.863	188	1309756	27.09	ng/ul	0.00
74) Pyrene-d10	18.715	212	1525319	48.74	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.804	264	1054653	33.07	ng/ul	-0.01
Target Compounds						Qvalue
12) Acetophenone	7.404	105	19824	1.09	ng/ul#	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041329.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.837	107	112	114	rBV2	8087	15462	0.40%	0.032%
2	3.978	120	124	127	rBV4	3564	10514	0.27%	0.022%
3	4.142	135	138	147	rVB	358580	653136	16.87%	1.363%
4	5.036	213	214	217	rVB2	6716	10173	0.26%	0.021%
5	5.932	288	290	297	rBV6	9393	27104	0.70%	0.057%
6	6.049	297	300	305	rVV	904128	1474175	38.07%	3.076%
7	6.156	305	309	313	rVB	575051	982100	25.36%	2.049%
8	6.286	316	320	326	rVB	897795	1451713	37.49%	3.029%
9	6.673	350	353	362	rVB	795717	1495070	38.61%	3.120%
10	6.815	362	365	369	rBV3	10125	25344	0.65%	0.053%
11	7.380	410	413	419	rBV	1096444	1618465	41.79%	3.377%
12	7.687	435	439	442	rBV	1090587	1559284	40.26%	3.254%
13	8.310	488	492	495	rBV	1006479	1436911	37.10%	2.998%
14	8.369	495	497	502	rVB	7331	14219	0.37%	0.030%
15	8.522	508	510	512	rBV	12673	20794	0.54%	0.043%
16	8.628	516	519	521	rBV2	8999	16382	0.42%	0.034%
17	8.780	529	532	535	rBV	1311773	1871681	48.33%	3.905%
18	9.074	553	557	560	rBV	1217524	1718891	44.39%	3.587%
19	9.215	566	569	575	rBV	827860	1258271	32.49%	2.626%
20	10.425	669	672	679	rBV2	28167	63062	1.63%	0.132%
21	11.060	723	726	731	rVV2	6943	18395	0.47%	0.038%
22	11.307	744	747	751	rVB3	15121	29319	0.76%	0.061%
23	12.108	811	815	818	rBV	1986326	2802776	72.37%	5.848%
24	12.331	830	834	837	rBV	1860126	2772150	71.58%	5.784%
25	12.542	847	852	854	rBV3	11345	29505	0.76%	0.062%
26	12.660	858	862	865	rBV	1392524	2151601	55.56%	4.490%
27	12.955	883	887	890	rBV	983323	1778438	45.92%	3.711%
28	13.085	896	898	901	rVB3	17043	28652	0.74%	0.060%
29	13.156	901	904	908	rVV	53249	90717	2.34%	0.189%
30	13.227	908	910	913	rVV3	15400	21859	0.56%	0.046%
31	13.404	923	925	929	rVB2	7653	13447	0.35%	0.028%
32	13.616	942	943	946	rVB3	9272	12203	0.32%	0.025%
33	13.745	950	954	957	rVB	1838890	3073343	79.36%	6.413%
34	13.910	964	968	972	rBV	571888	1013167	26.16%	2.114%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.004	974	976	978	rVB	23029	31470	0.81%	0.066%
36	14.169	988	990	992	rVB2	8251	11527	0.30%	0.024%
37	14.345	1001	1005	1008	rBV5	13602	31951	0.83%	0.067%
38	14.415	1008	1011	1015	rVB2	8768	13873	0.36%	0.029%
39	14.520	1015	1020	1022	rBV4	6532	16357	0.42%	0.034%
40	14.685	1031	1034	1036	rBV3	25290	40604	1.05%	0.085%
41	14.933	1054	1055	1061	rVB2	4290	10882	0.28%	0.023%
42	15.085	1065	1068	1074	rVB3	6205	13975	0.36%	0.029%
43	15.215	1076	1079	1084	rBV3	3969	10299	0.27%	0.021%
44	15.285	1084	1085	1090	rBV6	5231	14891	0.38%	0.031%
45	15.485	1099	1102	1106	rBV	11422	26599	0.69%	0.056%
46	15.626	1112	1114	1118	rBV2	26872	43352	1.12%	0.090%
47	15.685	1118	1119	1120	rBV	8909	11867	0.31%	0.025%
48	15.745	1120	1124	1127	rVV	1472995	2343357	60.51%	4.890%
49	15.863	1130	1134	1138	rBV	1970461	3392920	87.61%	7.080%
50	16.075	1149	1152	1155	rVV	80446	121892	3.15%	0.254%
51	16.216	1161	1164	1167	rVB3	9391	20808	0.54%	0.043%
52	16.405	1177	1180	1183	rBV3	6220	19133	0.49%	0.040%
53	16.523	1188	1190	1194	rVB3	12896	22152	0.57%	0.046%
54	16.735	1206	1208	1212	rVB2	7883	12885	0.33%	0.027%
55	17.006	1228	1231	1239	rBV2	65666	142182	3.67%	0.297%
56	17.266	1251	1253	1256	rVB2	4677	11578	0.30%	0.024%
57	18.042	1316	1319	1320	rBV2	5867	9987	0.26%	0.021%
58	18.137	1324	1327	1329	rBV3	7087	13598	0.35%	0.028%
59	18.208	1329	1333	1337	rVB6	17402	65233	1.68%	0.136%
60	18.408	1345	1350	1352	rBV2	5629	14558	0.38%	0.030%
61	18.561	1359	1363	1368	rBV	20857	39144	1.01%	0.082%
62	18.715	1372	1376	1380	rVV	2044887	3872673	100.00%	8.081%
63	18.774	1380	1381	1384	rVV4	11992	20162	0.52%	0.042%
64	18.845	1385	1387	1390	rVB4	8266	16891	0.44%	0.035%
65	19.011	1399	1401	1405	rVV2	14196	27196	0.70%	0.057%
66	19.590	1447	1450	1453	rVB3	6387	12043	0.31%	0.025%
67	19.708	1453	1460	1462	rBV5	15584	52641	1.36%	0.110%
68	19.896	1473	1476	1478	rBV3	4907	11368	0.29%	0.024%
69	20.154	1493	1498	1499	rBV3	8331	20544	0.53%	0.043%
70	20.320	1509	1512	1515	rBV3	14317	35754	0.92%	0.075%
71	20.415	1518	1520	1523	rVV3	17772	40291	1.04%	0.084%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.544	1529	1531	1536	rVB3	15244	36727	0.95%	0.077%
73	21.038	1570	1573	1574	rBV2	9684	20618	0.53%	0.043%
74	21.085	1574	1577	1589	rVV	415156	1179936	30.47%	2.462%
75	21.275	1589	1593	1598	rVB	899237	1835218	47.39%	3.829%
76	21.581	1618	1619	1624	rVB4	14776	24819	0.64%	0.052%
77	21.806	1635	1638	1642	rBV5	17164	50163	1.30%	0.105%
78	22.361	1683	1685	1689	rBV4	6092	20650	0.53%	0.043%
79	22.503	1695	1697	1699	rBV3	7596	12047	0.31%	0.025%
80	22.586	1701	1704	1705	rBV3	23233	36087	0.93%	0.075%
81	23.166	1751	1753	1756	rVB3	8786	11207	0.29%	0.023%
82	23.638	1790	1793	1800	rVB5	24719	66528	1.72%	0.139%
83	24.450	1859	1862	1863	rBV3	21937	45727	1.18%	0.095%
84	24.804	1884	1892	1902	rVB	786279	2629565	67.90%	5.487%
85	25.064	1906	1914	1921	rBV	459684	1478415	38.18%	3.085%
86	25.511	1949	1952	1953	rBV3	7068	13635	0.35%	0.028%
87	25.783	1973	1975	1976	rBV	7842	14394	0.37%	0.030%
88	26.219	2010	2012	2014	rBV3	6100	10671	0.28%	0.022%
89	26.338	2020	2022	2026	rVB4	8034	18888	0.49%	0.039%
90	26.727	2053	2055	2057	rBV2	9686	20482	0.53%	0.043%
91	27.177	2087	2093	2094	rBV5	27356	95151	2.46%	0.199%
92	27.603	2127	2129	2135	rBV5	4330	12583	0.32%	0.026%
93	27.874	2150	2152	2154	rVV3	7339	10153	0.26%	0.021%
94	27.969	2158	2160	2164	rBV4	5781	12805	0.33%	0.027%
95	28.074	2167	2169	2172	rBV3	7475	13649	0.35%	0.028%
96	29.774	2310	2313	2316	rBV2	7152	21425	0.55%	0.045%
97	30.010	2331	2333	2338	rVB5	6248	16623	0.43%	0.035%
98	30.140	2341	2344	2347	rBV4	5583	12452	0.32%	0.026%
99	30.270	2351	2355	2356	rBV3	6446	12060	0.31%	0.025%
100	31.887	2488	2492	2493	rBV4	8822	16624	0.43%	0.035%

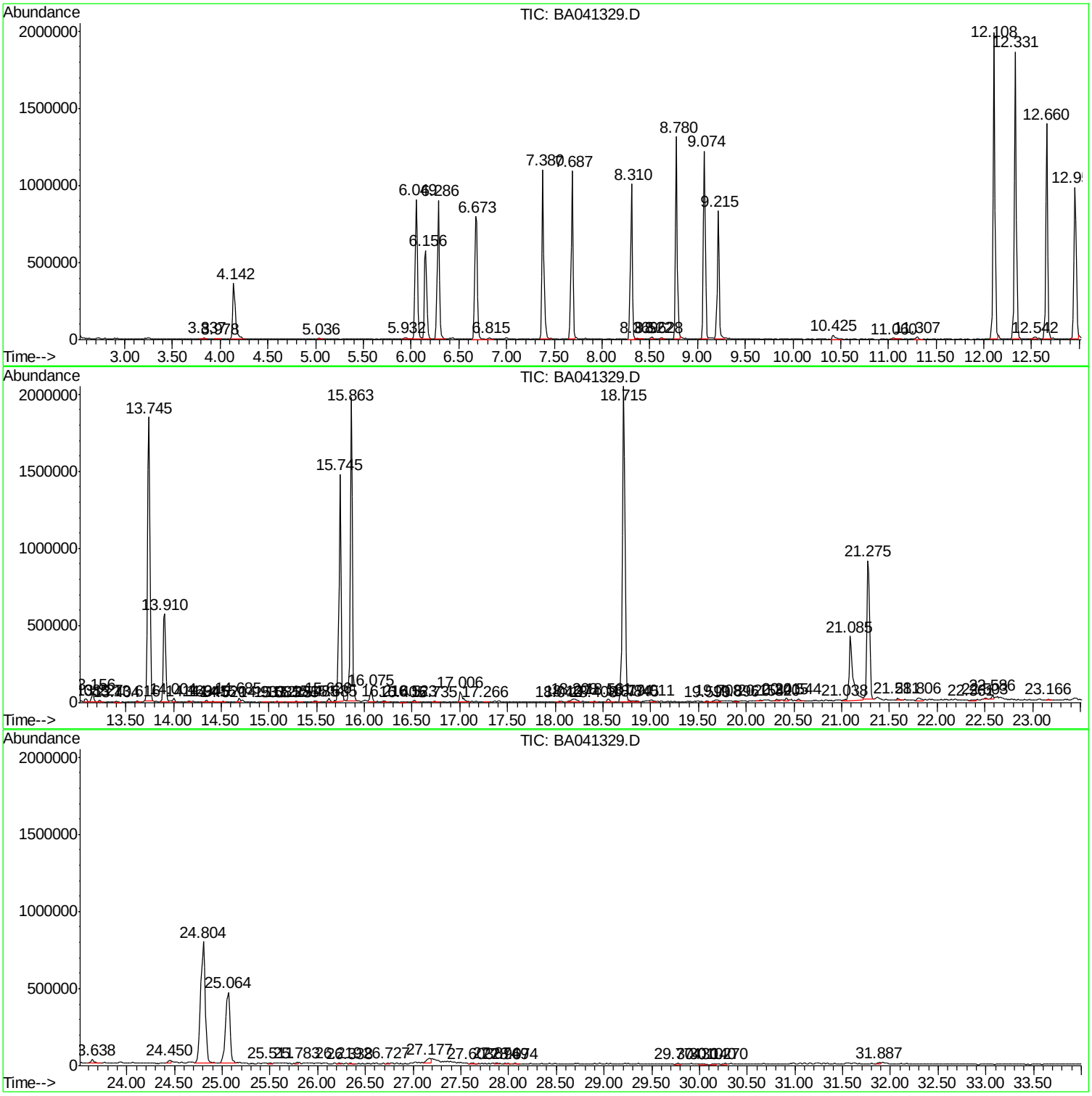
Sum of corrected areas: 47924262

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

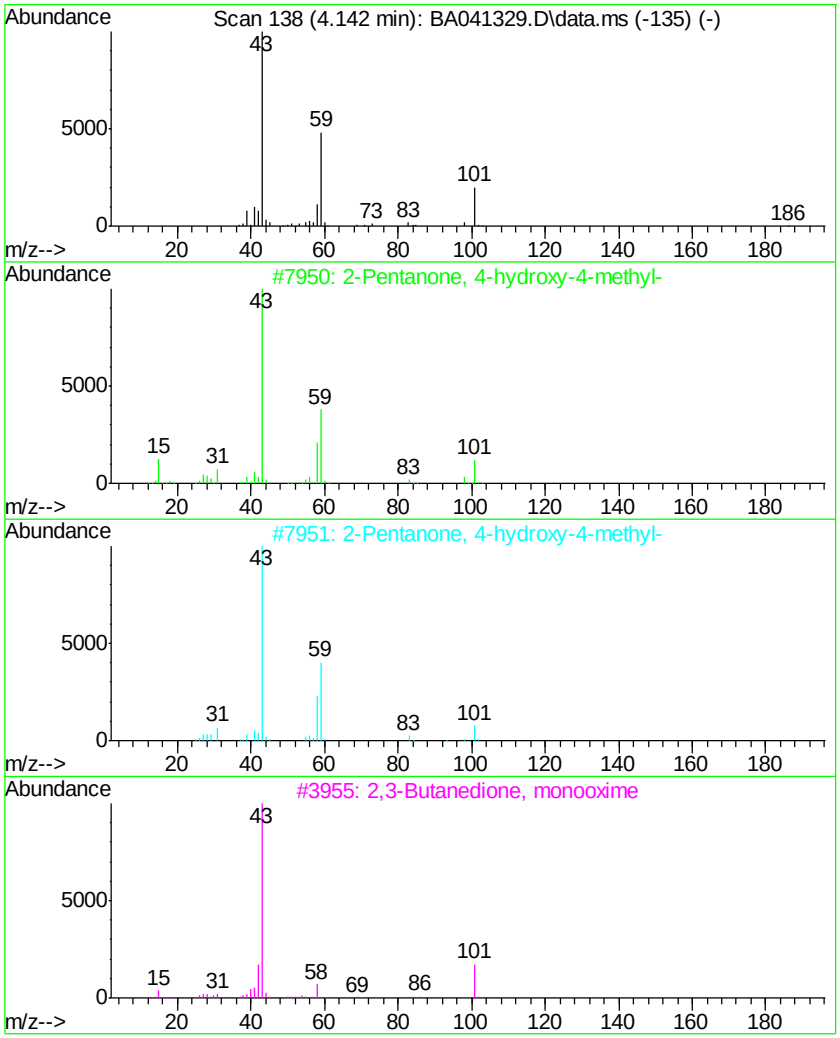
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

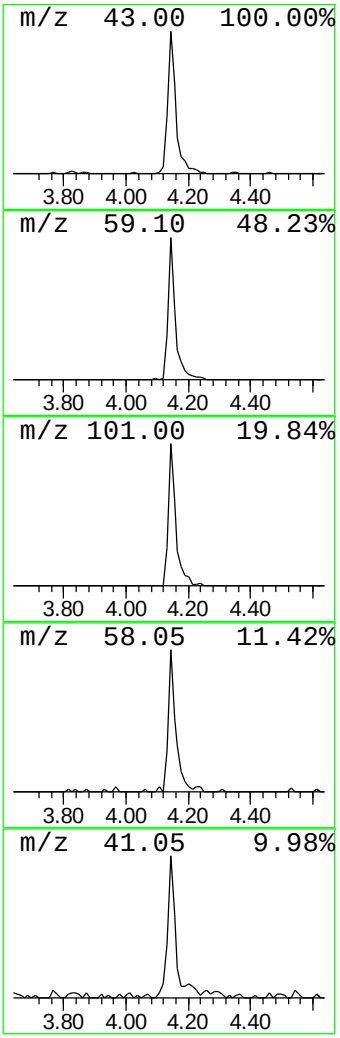
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.140	8.74 ng/ul	653136	1,4-Dichlorobenzene-d4	6.685

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	35
4	Butane, 1-(1-methylethoxy)-	116	C7H16O	001860-27-1	32
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

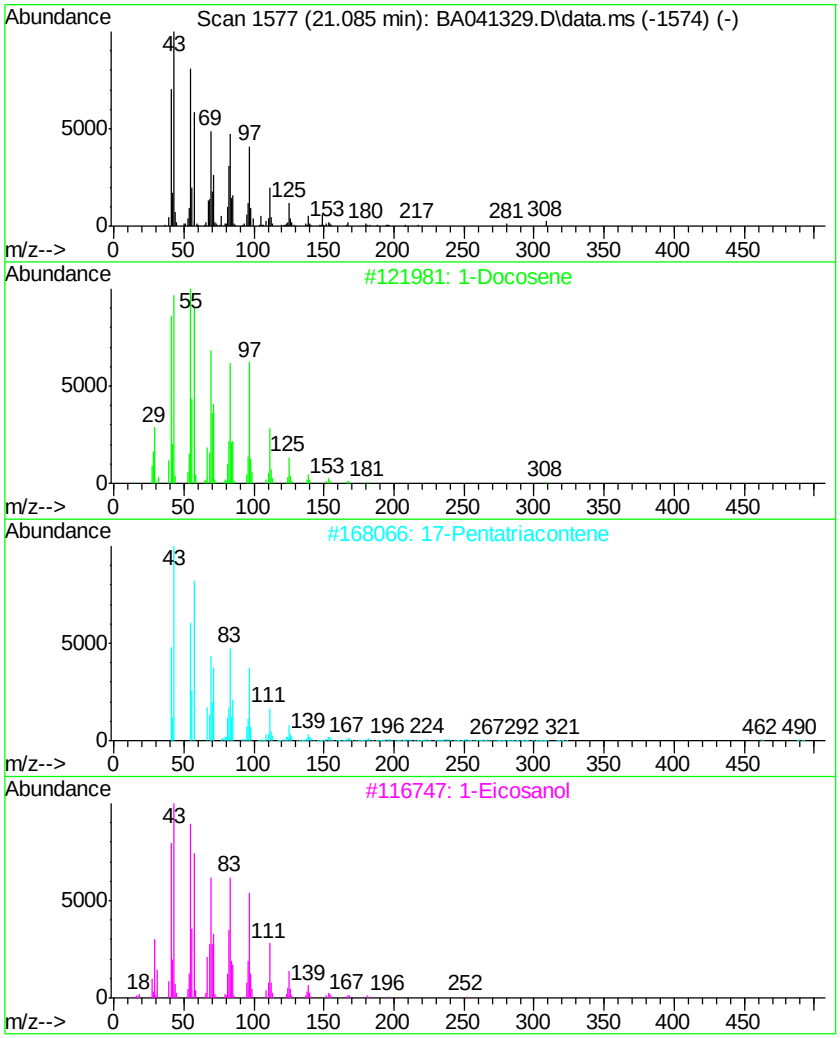
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

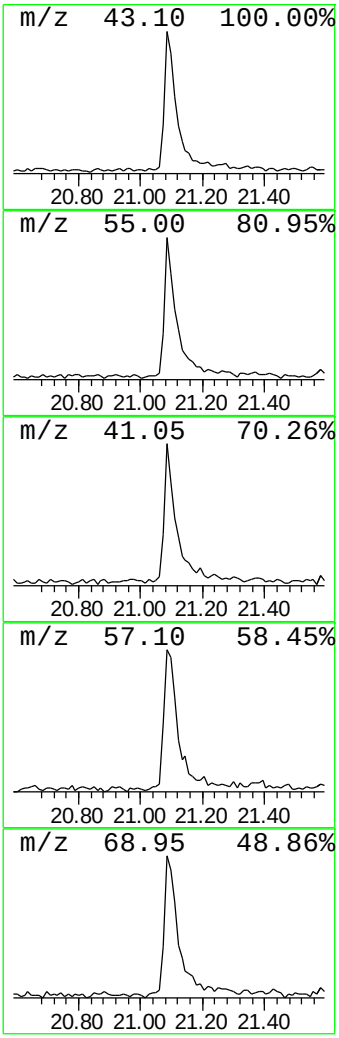
****

Peak Number 2 1-Docosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.090	12.86 ng/ul	1179940	Chrysene-d12	21.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	93
2	17-Pentatriacontene	491	C35H70	006971-40-0	76
3	1-Eicosanol	298	C20H42O	000629-96-9	68
4	Trifluoroacetic acid, n-octadecy...	366	C20H37F3O2	079392-43-1	62
5	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	58





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041329.D
Acq On : 20 Oct 2008 19:28
Operator : HNP
Sample : Z4923-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.140	8.7	ng/ul	653136	1	6.685	1495070	20.0
1-Docosene	21.090	12.9	ng/ul	1179940	5	21.275	1835220	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-09

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041348.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.60 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	39	J
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	93	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-09

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041348.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.60 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	600	
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	230	
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	94	J
218-01-9	Chrysene	120	J
117-81-7	Bis(2-ethylhexyl)phthalate	41	JB
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	56	J
50-32-8	Benzo(a)pyrene	100	J
193-39-5	Indeno(1,2,3-cd)pyrene	82	J
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	63	J
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-09

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041348.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.60 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

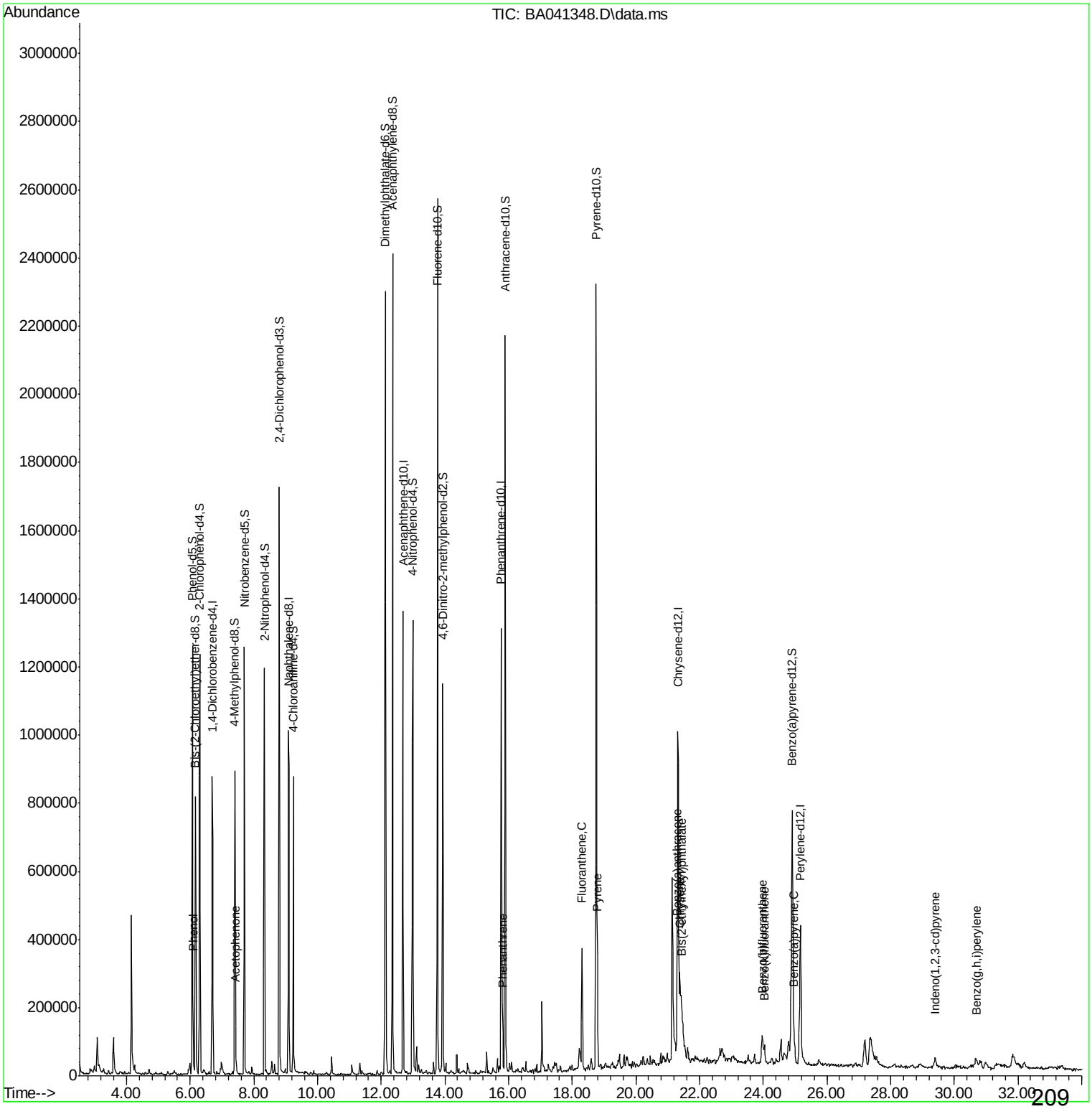
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	79-39-0	Methacrylamide	3.08	100	JN
02.	141-79-7	3-Penten-2-one, 4-methyl-	3.59	130	JN
03.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.15	430	JN
04.	57-10-3	n-Hexadecanoic acid	17.04	120	JNB
05.	1599-67-3	1-Docosene	21.13	500	JN
06.	7225-64-1	Heptadecane, 9-octyl-	24.56	100	JN
07.	12260-67-2	(1-Cyclopentenyl)ferrocene	24.79	83	JN
08.	630-02-4	Octacosane	27.20	170	JN
09.	822-23-1	Acetic acid, octadecyl ester	27.36	280	JN
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

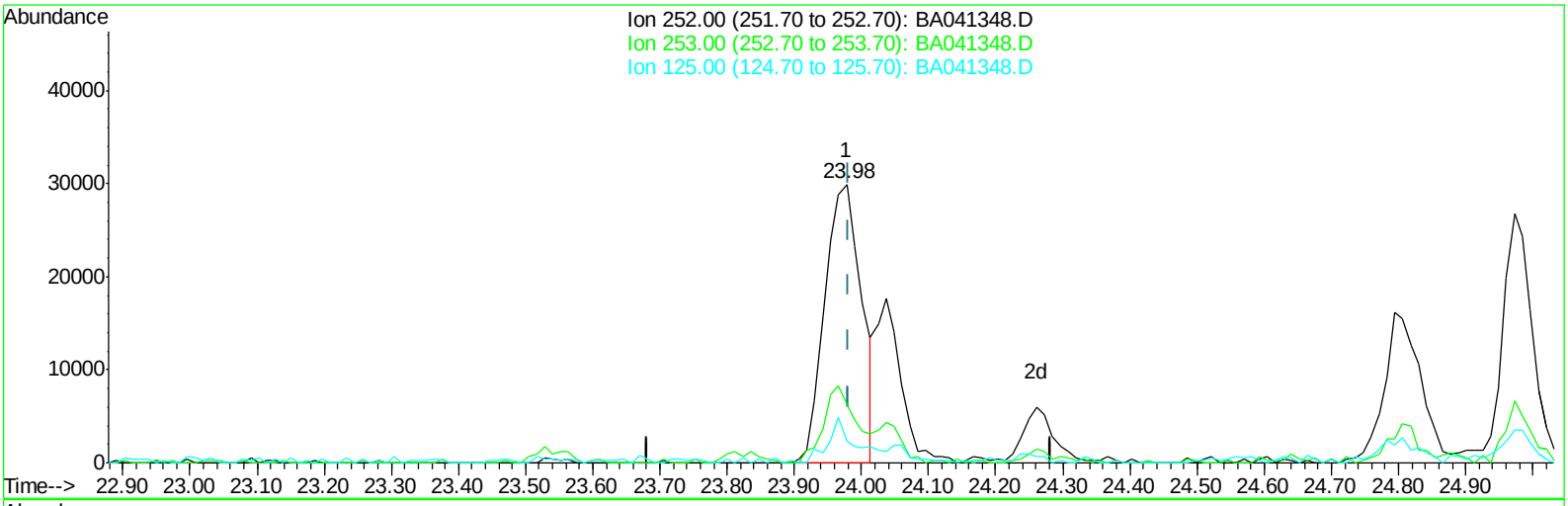
Quant Time: Oct 21 12:42:43 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

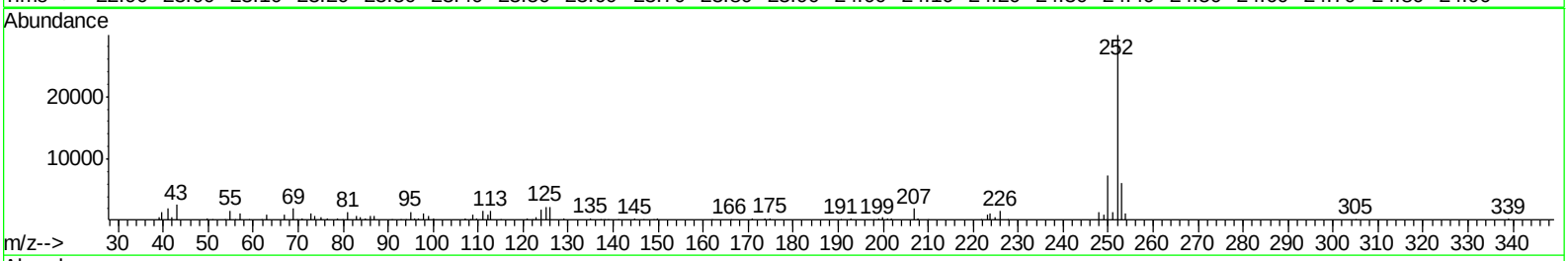


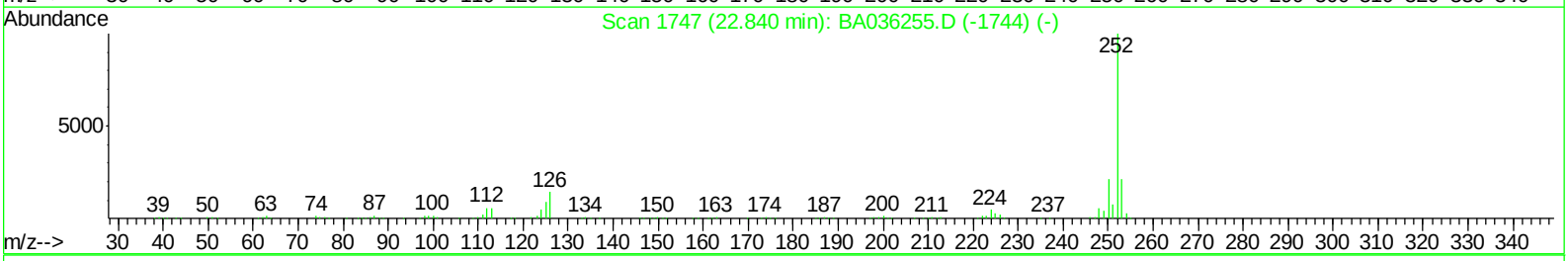
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 21 12:41:37 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041348.D

(84) Benzo(k)fluoranthene

23.978min (-0.004) 3.75ng/ul

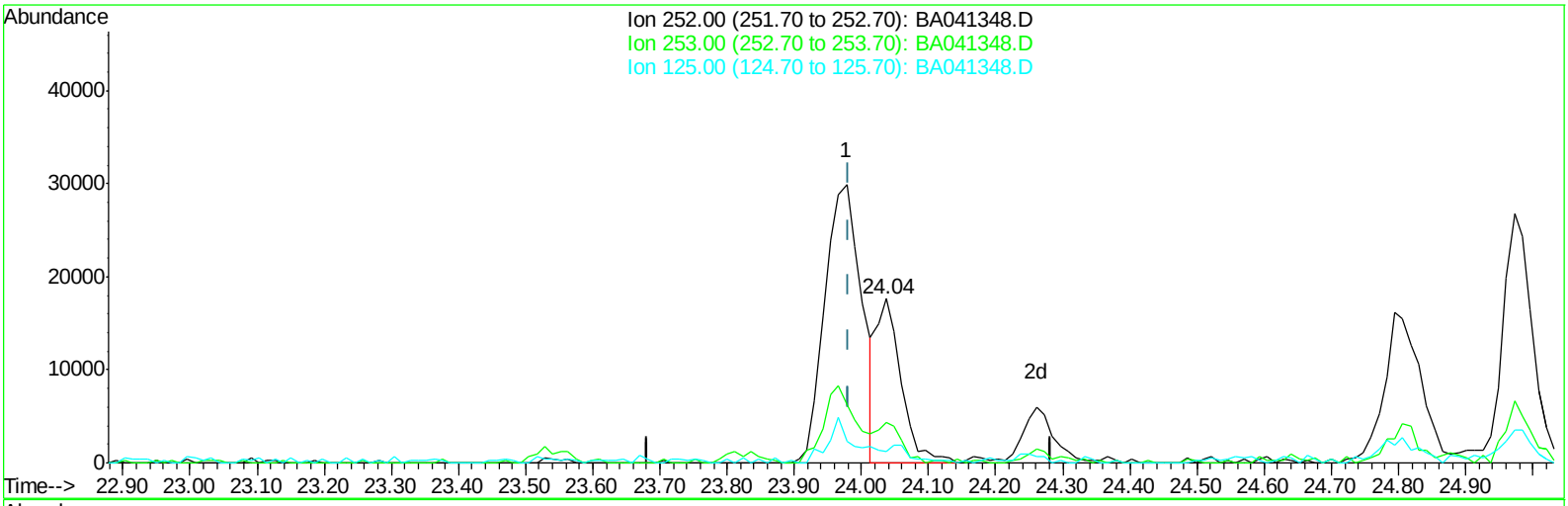
response 114025

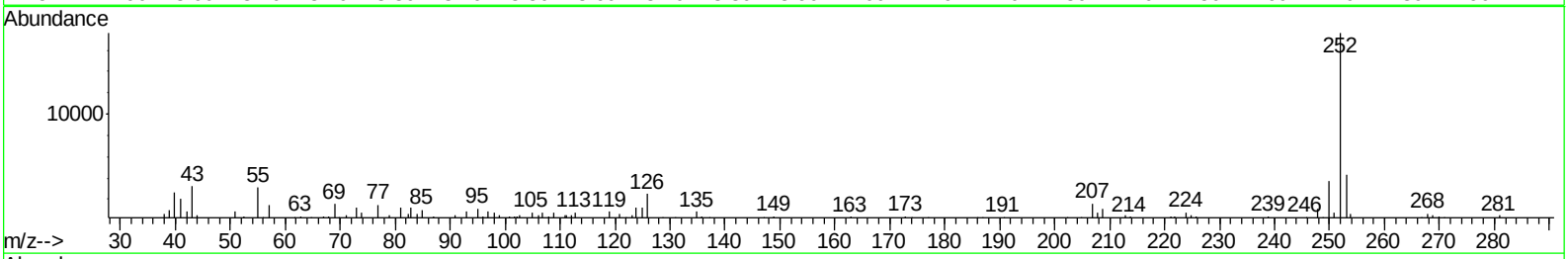
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	20.78
125.00	4.40	7.84#
0.00	0.00	0.00

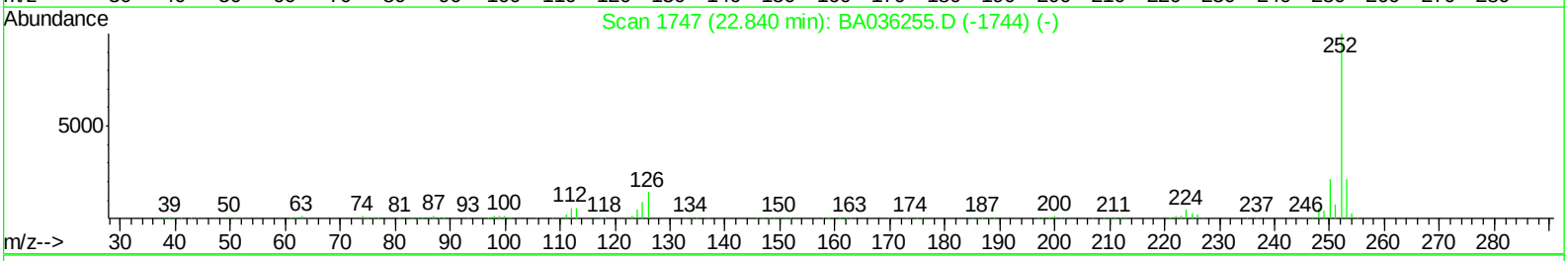
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 21 12:41:37 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







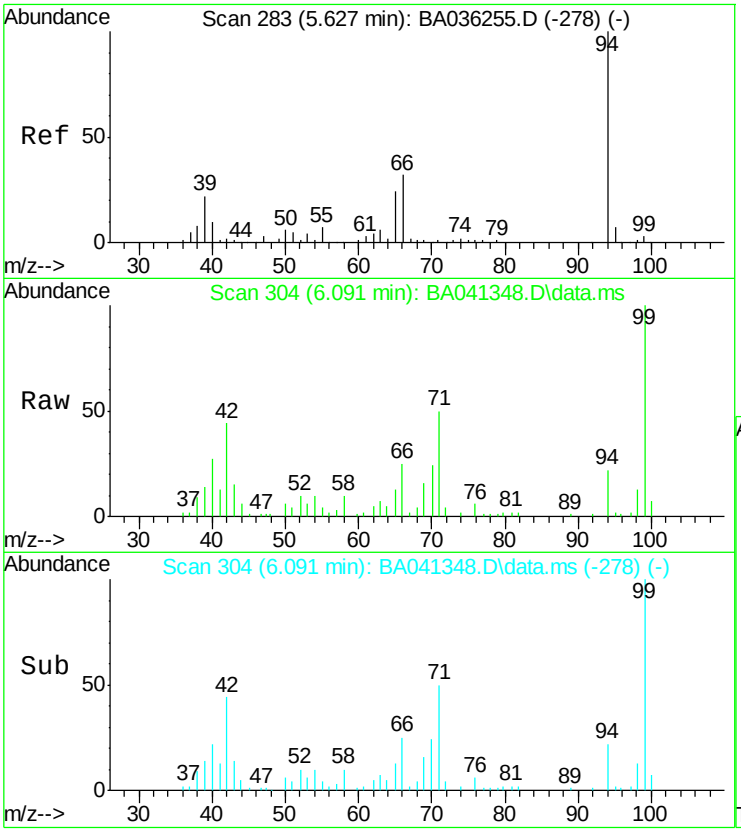
TIC: BA041348.D

(84) Benzo(k)fluoranthene

24.037min (+0.054) 1.49ng/ul m

response 45255

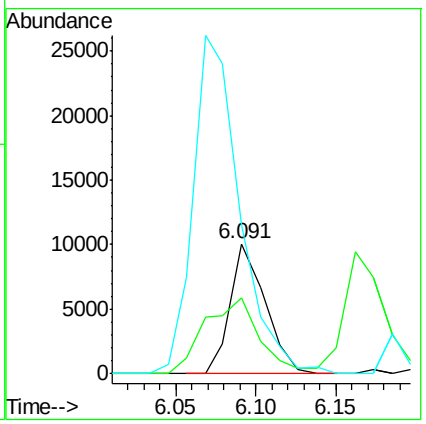
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	24.47
125.00	4.40	6.70#
0.00	0.00	0.00

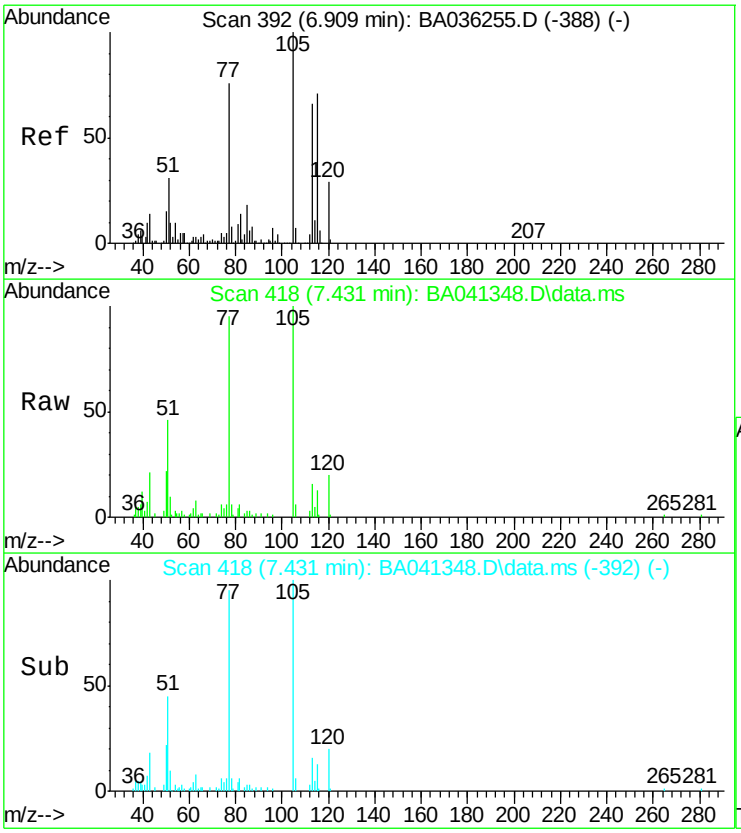


#4
Phenol
Concen: 1.03 ng/ul
RT: 6.091 min Scan# 304
Delta R.T. 0.009 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion: 94 Resp: 15050

Ion	Ratio	Lower	Upper
94	100		
65	58.0	29.0	43.6#
66	114.9	53.7	80.5#

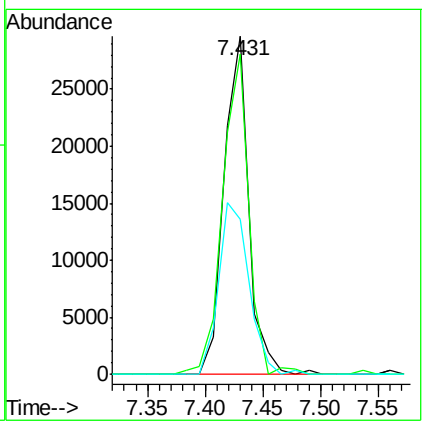


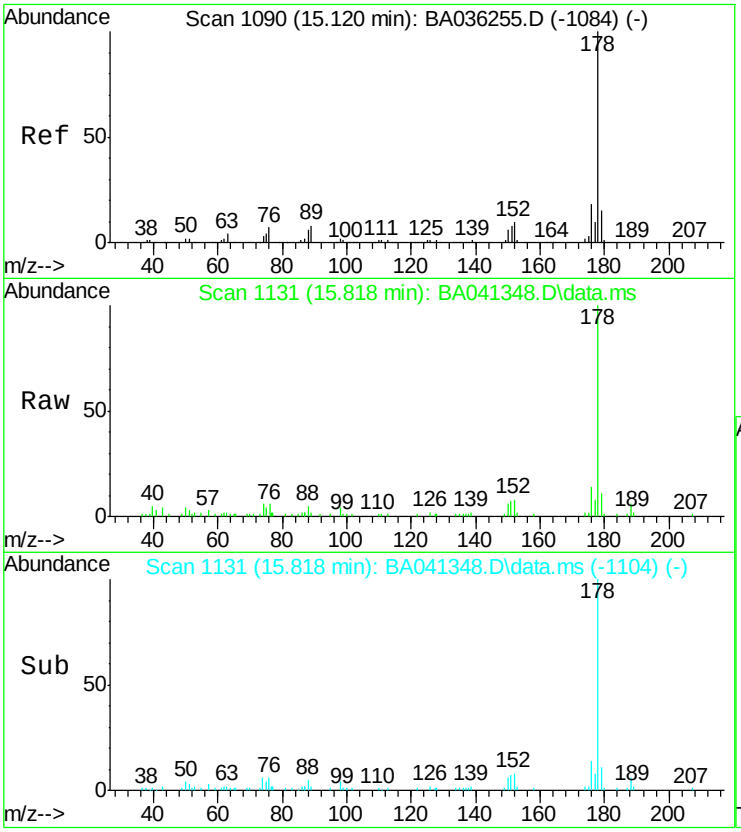


#12
Acetophenone
Concen: 2.46 ng/ul
RT: 7.431 min Scan# 418
Delta R.T. 0.008 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:105 Resp: 44016

Ion	Ratio	Lower	Upper
105	100		
77	94.7	69.4	104.2
51	46.0	42.1	63.1

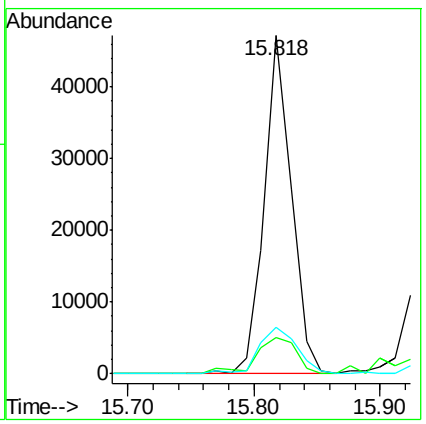


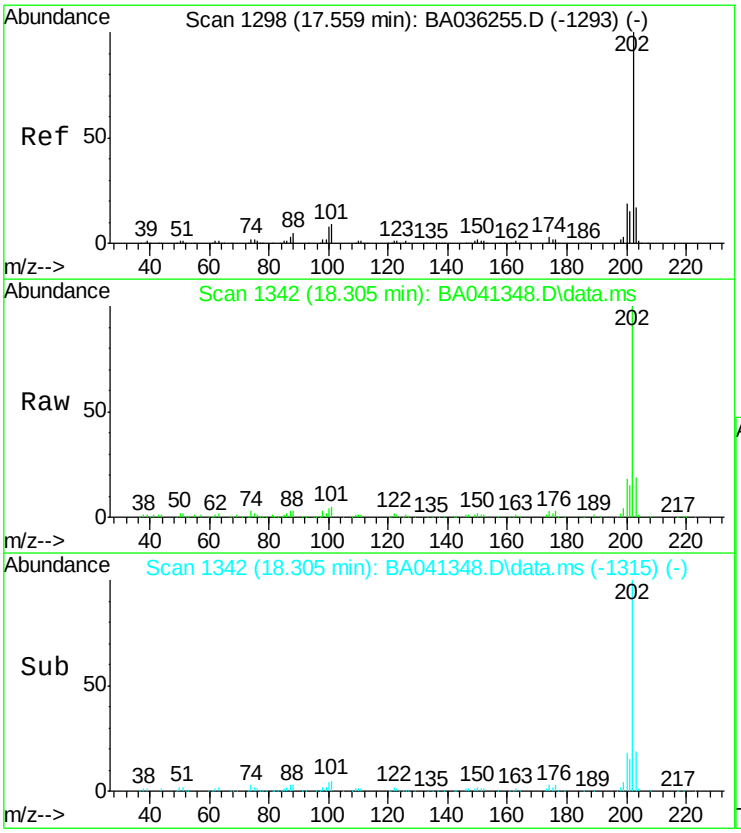


#67
Phenanthrene
Concen: 1.40 ng/ul
RT: 15.818 min Scan# 1131
Delta R.T. 0.015 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:178 Resp: 69216

Ion	Ratio	Lower	Upper
178	100		
179	10.5	12.0	18.0#
176	13.6	14.8	22.2#

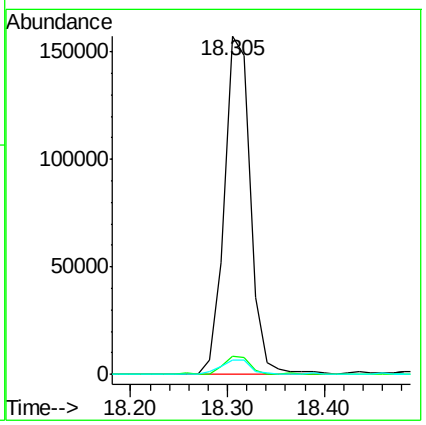


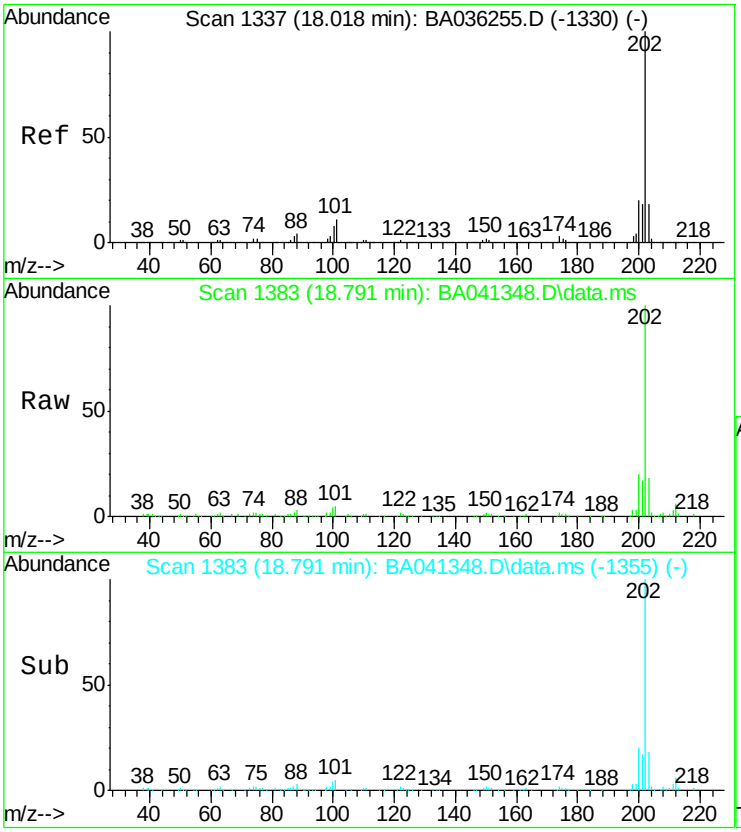


#72
Fluoranthene
Concen: 4.99 ng/ul
RT: 18.305 min Scan# 1342
Delta R.T. 0.020 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:202 Resp: 292870

Ion	Ratio	Lower	Upper
202	100		
101	5.2	2.6	4.0#
100	4.2	2.9	4.3

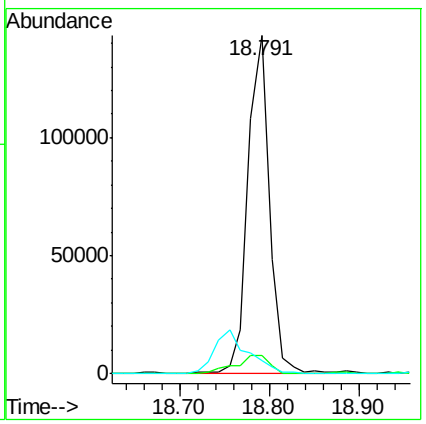


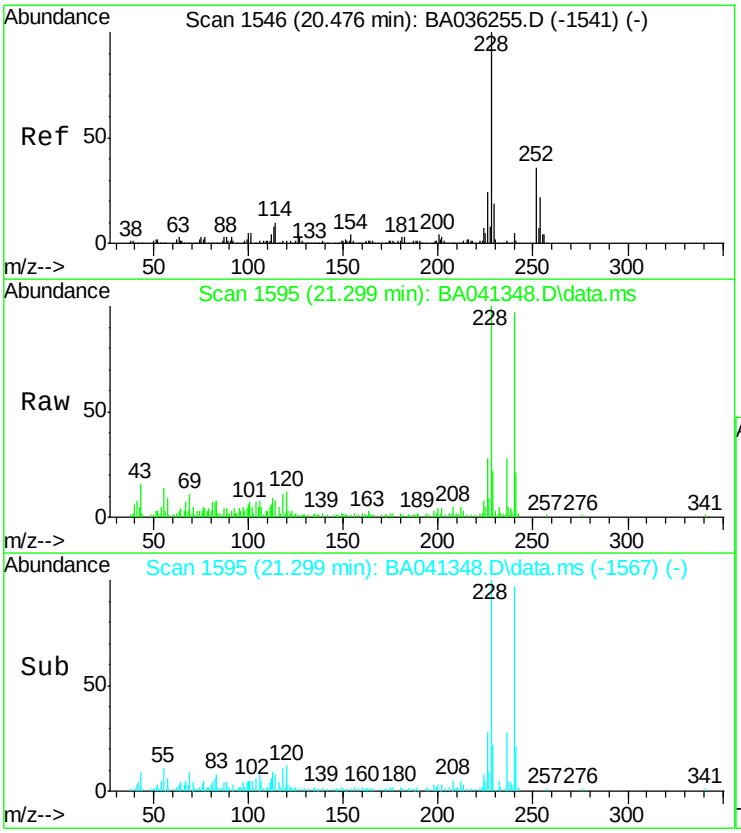


#75
Pyrene
Concen: 6.00 ng/ul
RT: 18.791 min Scan# 1383
Delta R.T. 0.035 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:202 Resp: 239404

Ion	Ratio	Lower	Upper
202	100		
101	5.2	3.5	5.3
100	3.8	3.4	5.0

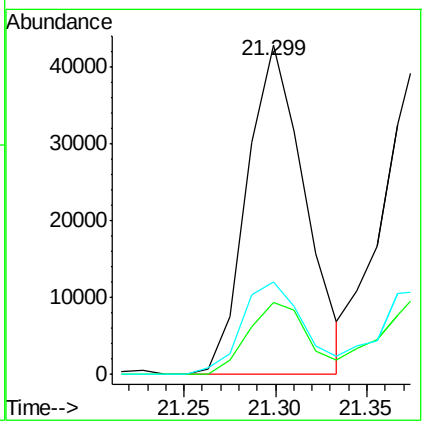


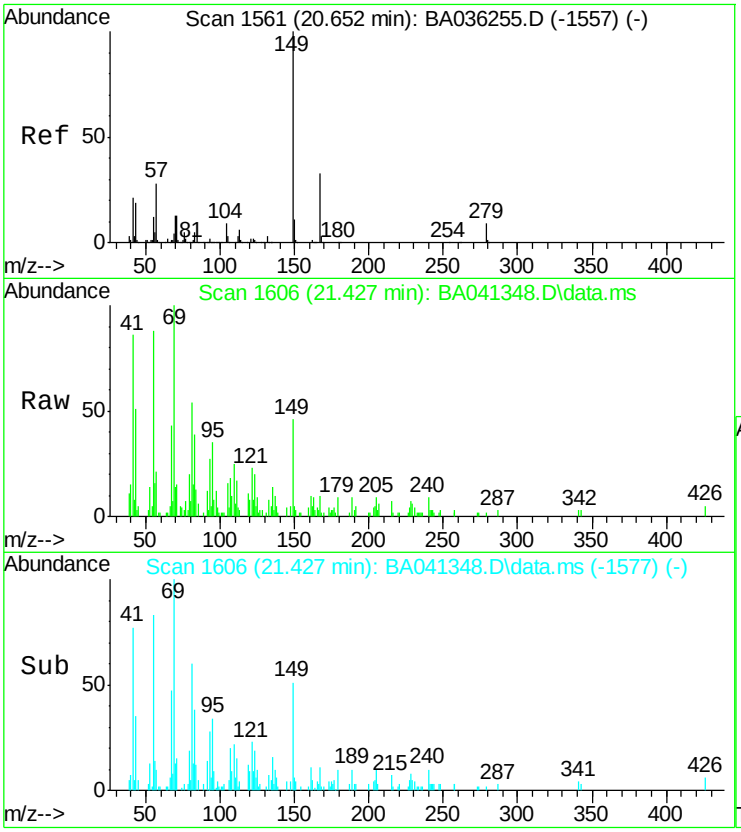


#78
Benzo(a)anthracene
Concen: 2.49 ng/ul
RT: 21.299 min Scan# 1595
Delta R.T. 0.034 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:228 Resp: 94802

Ion	Ratio	Lower	Upper
228	100		
229	21.8	15.9	23.9
226	28.0	20.2	30.2

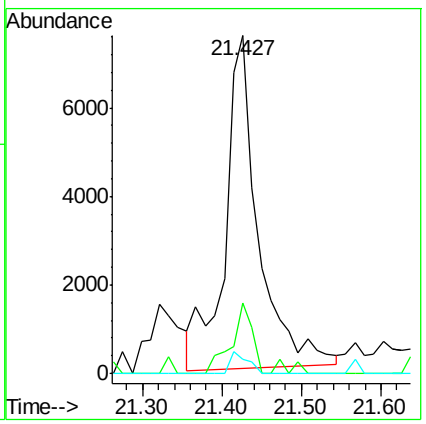


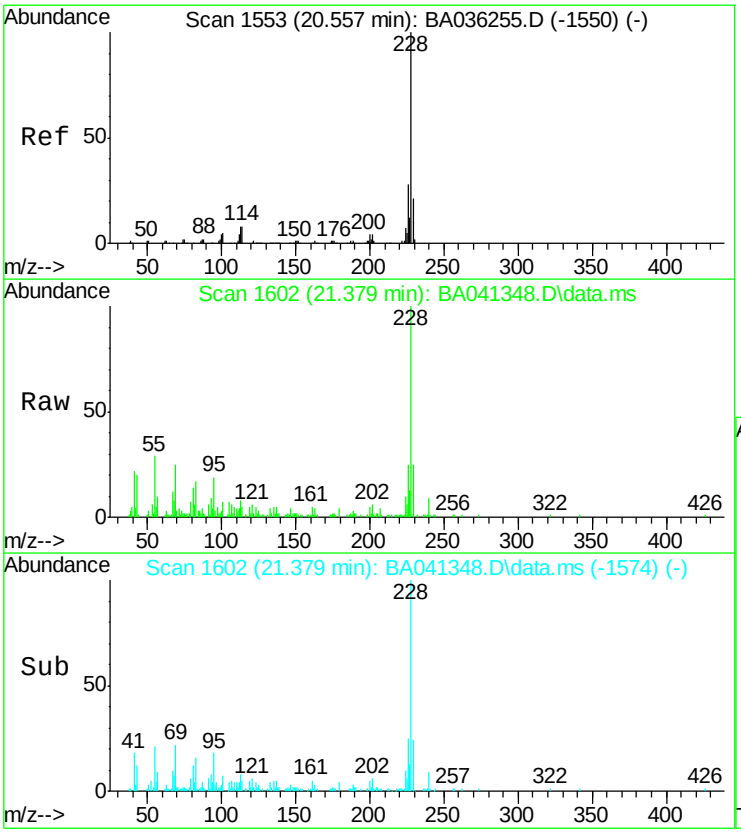


#79
Bis(2-ethylhexyl)phthalate
Concen: 1.09 ng/ul
RT: 21.427 min Scan# 1606
Delta R.T. 0.043 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:149 Resp: 22026

Ion	Ratio	Lower	Upper
149	100		
167	20.7	26.2	39.4#
279	4.0	7.7	11.5#

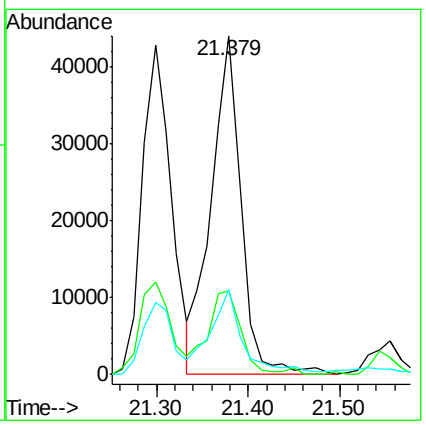


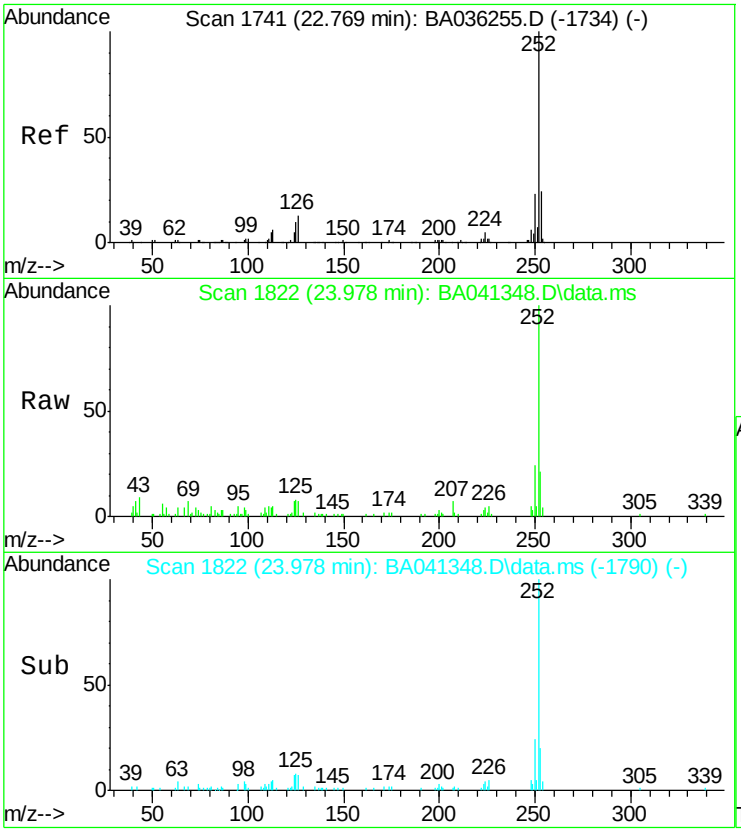


#80
Chrysene
Concen: 3.05 ng/ul
RT: 21.379 min Scan# 1602
Delta R.T. 0.031 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:228 Resp: 98682

Ion	Ratio	Lower	Upper
228	100		
226	24.6	20.6	31.0
229	25.1	14.4	21.6#

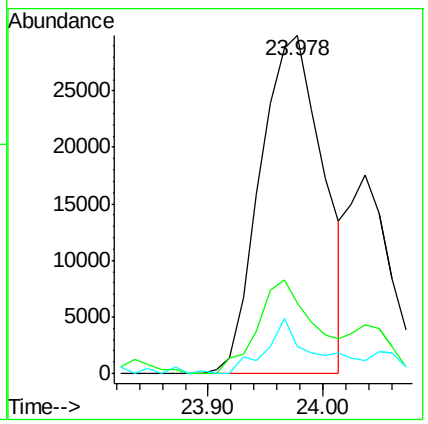


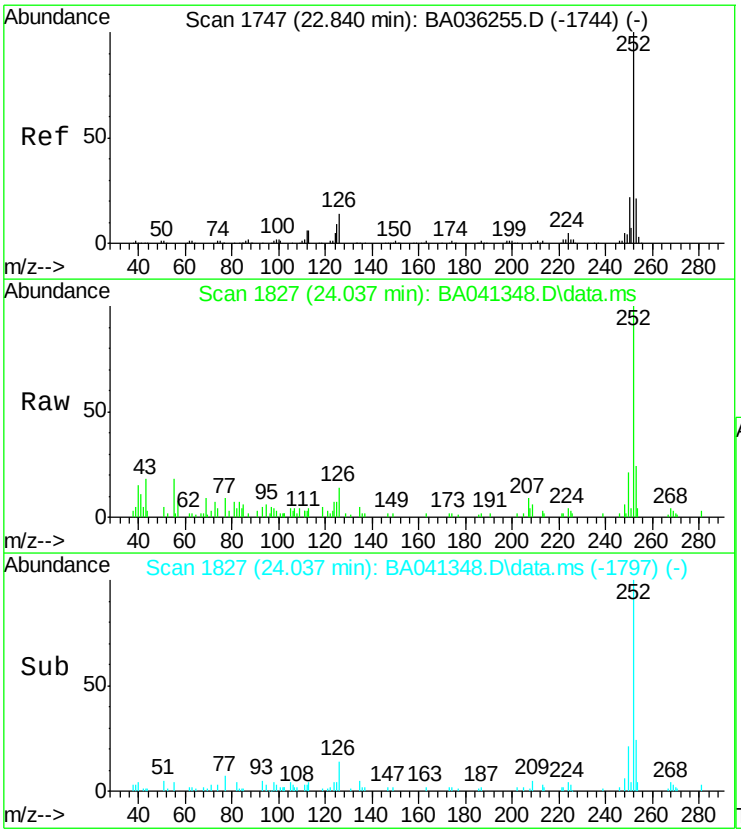


#83
Benzo(b)fluoranthene
Concen: 3.19 ng/ul
RT: 23.978 min Scan# 1822
Delta R.T. 0.079 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:252 Resp: 114025

Ion	Ratio	Lower	Upper
252	100		
253	20.8	16.2	24.2
125	7.8	4.1	6.1#

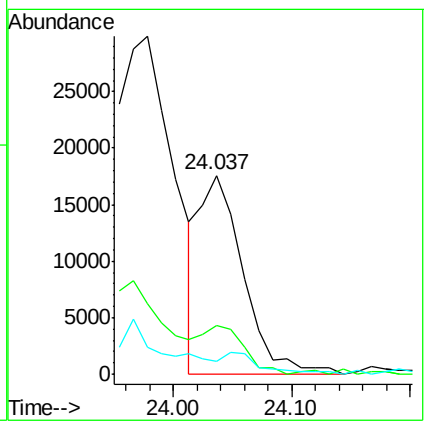


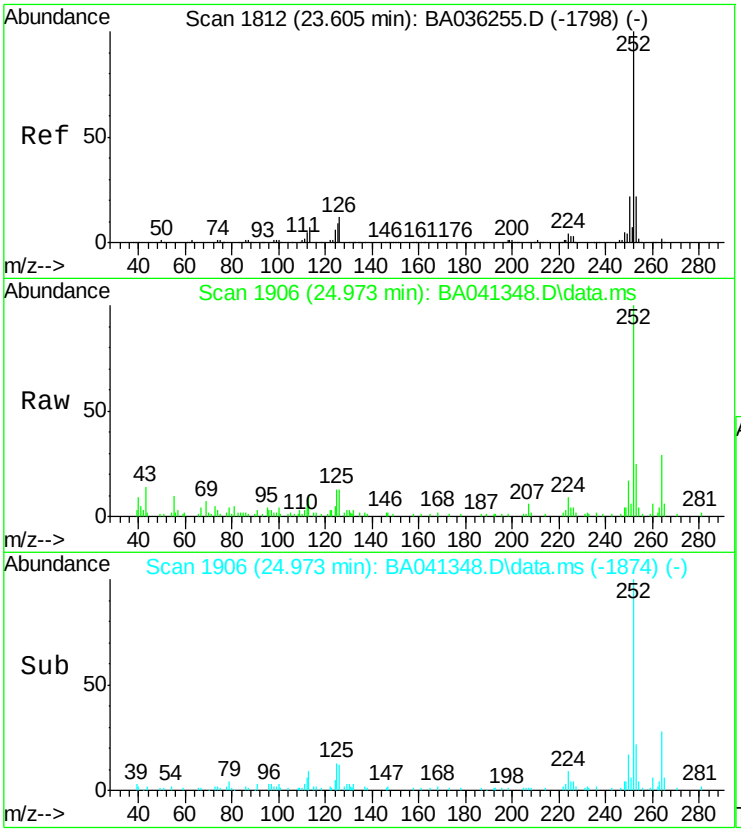


#84
Benzo(k)fluoranthene
Concen: 1.49 ng/ul m
RT: 24.037 min Scan# 1827
Delta R.T. 0.054 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:252 Resp: 45255

Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.4
125	6.7	3.5	5.3#

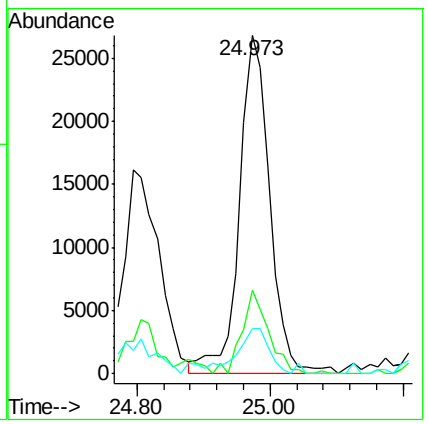


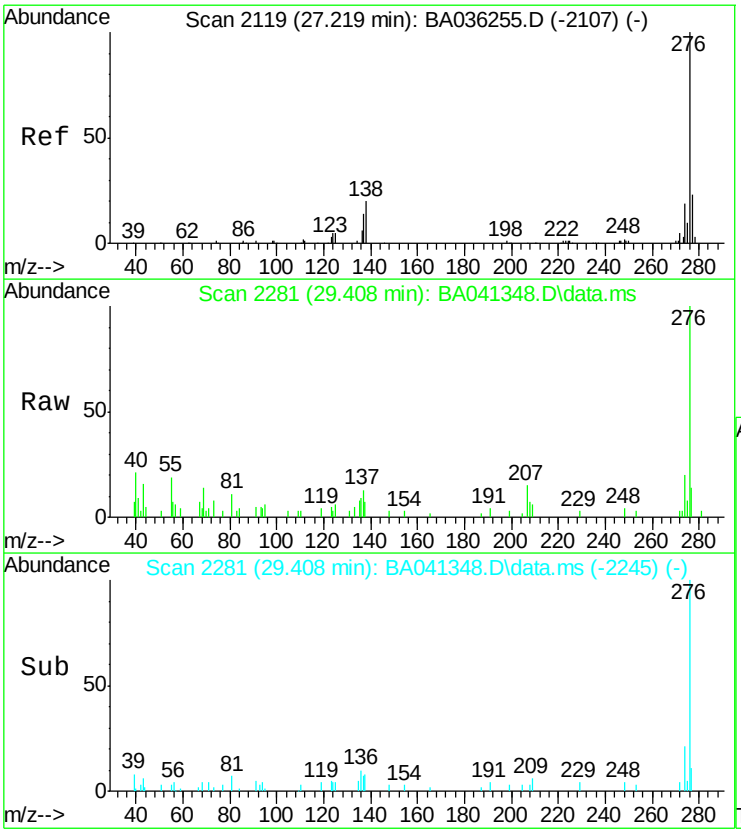


#86
Benzo(a)pyrene
Concen: 2.74 ng/ul
RT: 24.973 min Scan# 1906
Delta R.T. 0.074 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:252 Resp: 84277

Ion	Ratio	Lower	Upper
252	100		
253	24.7	15.1	22.7#
125	13.2	3.4	5.2#

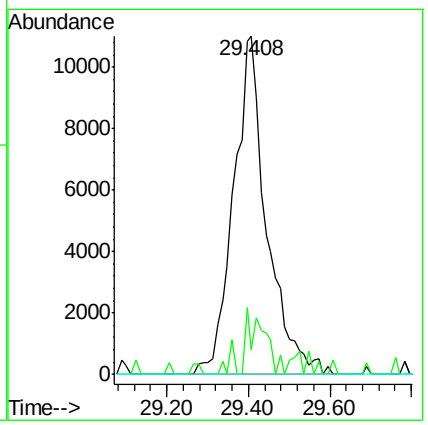


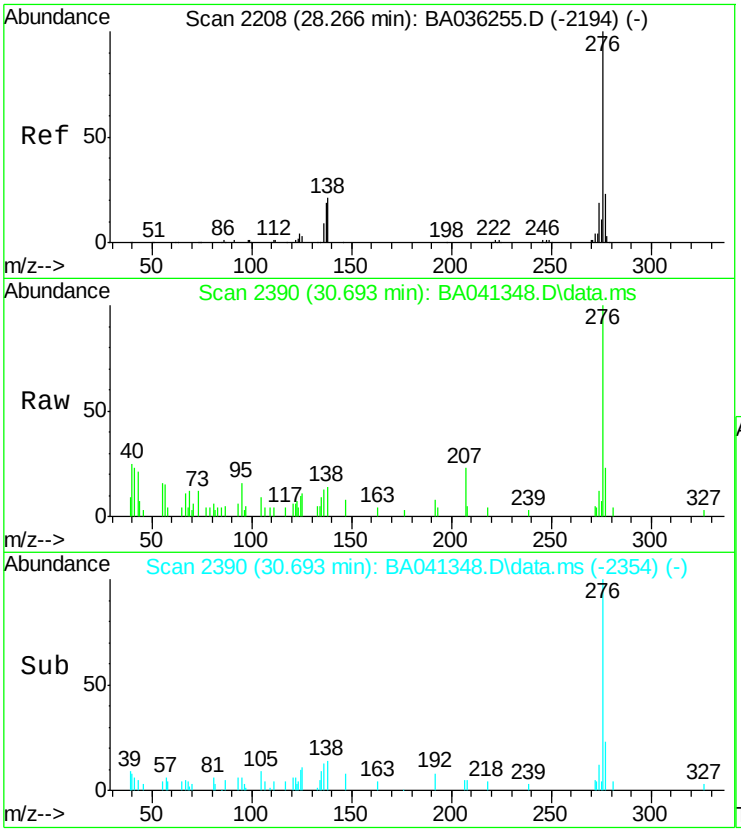


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.16 ng/ul
RT: 29.408 min Scan# 2281
Delta R.T. 0.130 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:276 Resp: 62278

Ion	Ratio	Lower	Upper
276	100		
138	7.3	8.2	12.2#
227	0.0	0.0	0.0

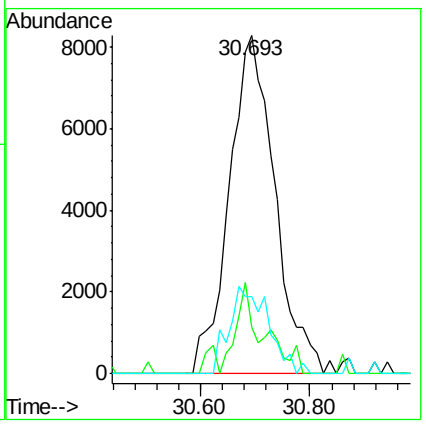




#89
Benzo(g,h,i)perylene
Concen: 1.66 ng/ul
RT: 30.693 min Scan# 2390
Delta R.T. 0.130 min
Lab File: BA041348.D
Acq: 21 Oct 2008 8:35

Tgt Ion:276 Resp: 48335

Ion	Ratio	Lower	Upper
276	100		
138	13.8	10.6	16.0
277	22.9	20.2	30.2



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 21 12:42:43 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.691	152	222326	20.00	ng/ul	0.01
16) Naphthalene-d8	9.086	136	734563	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.686	164	522870	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.770	188	970134	20.00	ng/ul	0.01
73) Chrysene-d12	21.322	240	719006	20.00	ng/ul	0.03
81) Perylene-d12	25.173	264	547013	20.00	ng/ul	0.10
System Monitoring Compounds						
3) Phenol-d5	6.068	99	529050	39.30	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.162	67	355130	38.91	ng/ul	0.00
7) 2-Chlorophenol-d4	6.304	132	457391	39.98	ng/ul	0.01
11) 4-Methylphenol-d8	7.407	113	244618	26.79	ng/ul	0.02
17) Nitrobenzene-d5	7.711	128	248441	38.20	ng/ul	0.02
20) 2-Nitrophenol-d4	8.334	143	296321	37.02	ng/ul	0.02
24) 2,4-Dichlorophenol-d3	8.803	165	489976	33.07	ng/ul	0.01
27) 4-Chloroaniline-d4	9.240	131	321716	21.96	ng/ul	0.02
41) Dimethylphthalate-d6	12.131	166	1434555	41.19	ng/ul	0.02
44) Acenaphthylene-d8	12.355	160	1647709	38.92	ng/ul	0.02
49) 4-Nitrophenol-d4	12.991	143	285382	40.21	ng/ul	0.03
55) Fluorene-d10	13.769	176	1100874	39.31	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.933	200	271462	27.04	ng/ul	0.01
68) Anthracene-d10	15.900	188	1556610	33.52	ng/ul	0.04
74) Pyrene-d10	18.756	212	1652739	52.60	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.914	264	977168	32.80	ng/ul	0.10
Target Compounds						Qvalue
4) Phenol	6.091	94	15050	1.03	ng/ul#	48
12) Acetophenone	7.431	105	44016	2.46	ng/ul	91
67) Phenanthrene	15.818	178	69216	1.40	ng/ul#	89
72) Fluoranthene	18.305	202	292870	4.99	ng/ul#	96
75) Pyrene	18.791	202	239404	6.00	ng/ul	98
78) Benzo(a)anthracene	21.299	228	94802	2.49	ng/ul	95
79) Bis(2-ethylhexyl)phtha...	21.427	149	22026	1.09	ng/ul#	80
80) Chrysene	21.379	228	98682	3.05	ng/ul#	92
83) Benzo(b)fluoranthene	23.978	252	114025	3.19	ng/ul#	97
84) Benzo(k)fluoranthene	24.037	252	45255m	1.49	ng/ul	
86) Benzo(a)pyrene	24.973	252	84277	2.74	ng/ul#	84
87) Indeno(1,2,3-cd)pyrene	29.408	276	62278	2.16	ng/ul#	92
89) Benzo(g,h,i)perylene	30.693	276	48335	1.66	ng/ul	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041348.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.861	25	29	31	rBV3	16033	27935	0.57%	0.043%
2	2.990	37	40	44	rBV	19092	38733	0.79%	0.060%
3	3.084	45	48	51	rBV	99444	202555	4.13%	0.313%
4	3.589	88	91	103	rVB	108364	250021	5.10%	0.387%
5	4.153	135	139	146	rVV	466300	854453	17.43%	1.322%
6	4.259	146	148	153	rVB	25535	42180	0.86%	0.065%
7	4.704	184	186	190	rVB3	15463	30578	0.62%	0.047%
8	5.291	233	236	242	rBV5	11545	31043	0.63%	0.048%
9	5.939	288	291	293	rBV2	15159	32960	0.67%	0.051%
10	5.998	293	296	299	rVV	31574	56906	1.16%	0.088%
11	6.068	299	302	307	rVV	1256120	2185420	44.59%	3.380%
12	6.174	307	311	318	rVB	813305	1453588	29.66%	2.248%
13	6.304	318	322	327	rBV	1231298	2063837	42.11%	3.192%
14	6.691	352	355	360	rVV	872532	1493933	30.48%	2.311%
15	6.951	374	377	378	rVV2	18130	30721	0.63%	0.048%
16	6.986	378	380	390	rVB4	38721	117049	2.39%	0.181%
17	7.407	412	416	425	rVV2	890901	1714147	34.97%	2.651%
18	7.699	438	441	445	rBV	1255642	2174493	44.37%	3.363%
19	7.935	457	461	464	rVV3	21650	37103	0.76%	0.057%
20	8.322	491	494	498	rBV	1193367	1997037	40.75%	3.089%
21	8.569	510	515	518	rBV2	37701	73640	1.50%	0.114%
22	8.651	520	522	524	rVB2	29703	35289	0.72%	0.055%
23	8.803	531	535	538	rBV	1724141	2571435	52.47%	3.977%
24	8.980	547	550	554	rVB3	14991	29678	0.61%	0.046%
25	9.086	556	559	563	rBV	1005102	1648585	33.64%	2.550%
26	9.240	569	572	581	rBV	867449	1255310	25.61%	1.942%
27	10.439	671	674	679	rBV3	51125	96063	1.96%	0.149%
28	11.083	725	729	741	rVB4	29669	85911	1.75%	0.133%
29	11.331	746	750	752	rBV2	32960	58609	1.20%	0.091%
30	12.131	814	818	821	rBV	2296191	3557125	72.58%	5.502%
31	12.178	821	822	825	rVB	48955	51617	1.05%	0.080%
32	12.355	833	837	840	rBV	2406155	3659706	74.67%	5.661%
33	12.686	861	865	869	rBV	1356192	2209318	45.08%	3.417%
34	12.991	886	891	899	rBV	1329482	2339496	47.73%	3.619%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.110	899	901	904	rVV	80306	128182	2.62%	0.198%
36	13.180	904	907	909	rVV4	26024	53574	1.09%	0.083%
37	13.651	943	947	949	rBV2	35118	64195	1.31%	0.099%
38	13.769	953	957	960	rVV	2566340	4034851	82.32%	6.241%
39	13.886	964	967	968	rVV	21369	33230	0.68%	0.051%
40	13.933	968	971	974	rVV	1141954	1769197	36.10%	2.737%
41	14.027	976	979	983	rVB	30221	50081	1.02%	0.077%
42	14.380	1006	1009	1011	rVB	54814	100580	2.05%	0.156%
43	14.710	1035	1037	1043	rBV2	33423	91540	1.87%	0.142%
44	15.134	1068	1073	1076	rBV4	9531	33496	0.68%	0.052%
45	15.311	1085	1088	1092	rBV2	61847	100060	2.04%	0.155%
46	15.512	1101	1105	1108	rBV2	18826	43451	0.89%	0.067%
47	15.653	1114	1117	1120	rBV3	43542	65868	1.34%	0.102%
48	15.712	1120	1122	1124	rBV2	19471	33458	0.68%	0.052%
49	15.770	1124	1127	1130	rBV	1293165	2252826	45.97%	3.485%
50	15.818	1130	1131	1134	rVB	105420	111808	2.28%	0.173%
51	15.900	1134	1138	1141	rBV	2149332	4037929	82.39%	6.246%
52	16.041	1146	1150	1151	rVV2	26141	44017	0.90%	0.068%
53	16.100	1153	1155	1157	rVB3	27544	33670	0.69%	0.052%
54	16.430	1180	1183	1191	rBV6	15802	60426	1.23%	0.093%
55	16.548	1191	1193	1197	rVB2	31082	44843	0.91%	0.069%
56	16.760	1208	1211	1214	rVB3	12821	30360	0.62%	0.047%
57	16.831	1214	1217	1220	rBV3	13713	33711	0.69%	0.052%
58	16.890	1220	1222	1225	rVB	26612	39136	0.80%	0.061%
59	17.043	1232	1235	1240	rBV3	206657	358153	7.31%	0.554%
60	17.255	1249	1253	1256	rBV4	22899	49906	1.02%	0.077%
61	17.397	1262	1265	1267	rBV2	15827	36413	0.74%	0.056%
62	17.456	1267	1270	1272	rVV4	18479	41355	0.84%	0.064%
63	17.621	1283	1284	1289	rVB3	18920	40991	0.84%	0.063%
64	17.927	1305	1310	1312	rBV3	16155	43335	0.88%	0.067%
65	17.998	1312	1316	1319	rVB5	15256	34730	0.71%	0.054%
66	18.222	1331	1335	1339	rBV4	56900	188787	3.85%	0.292%
67	18.305	1339	1342	1346	rVB	351841	643931	13.14%	0.996%
68	18.507	1357	1359	1362	rVB3	15830	27336	0.56%	0.042%
69	18.590	1364	1366	1371	rVV2	33042	78037	1.59%	0.121%
70	18.756	1375	1380	1386	rBV2	2305399	4901140	100.00%	7.581%
71	18.874	1388	1390	1392	rVV2	13147	29551	0.60%	0.046%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

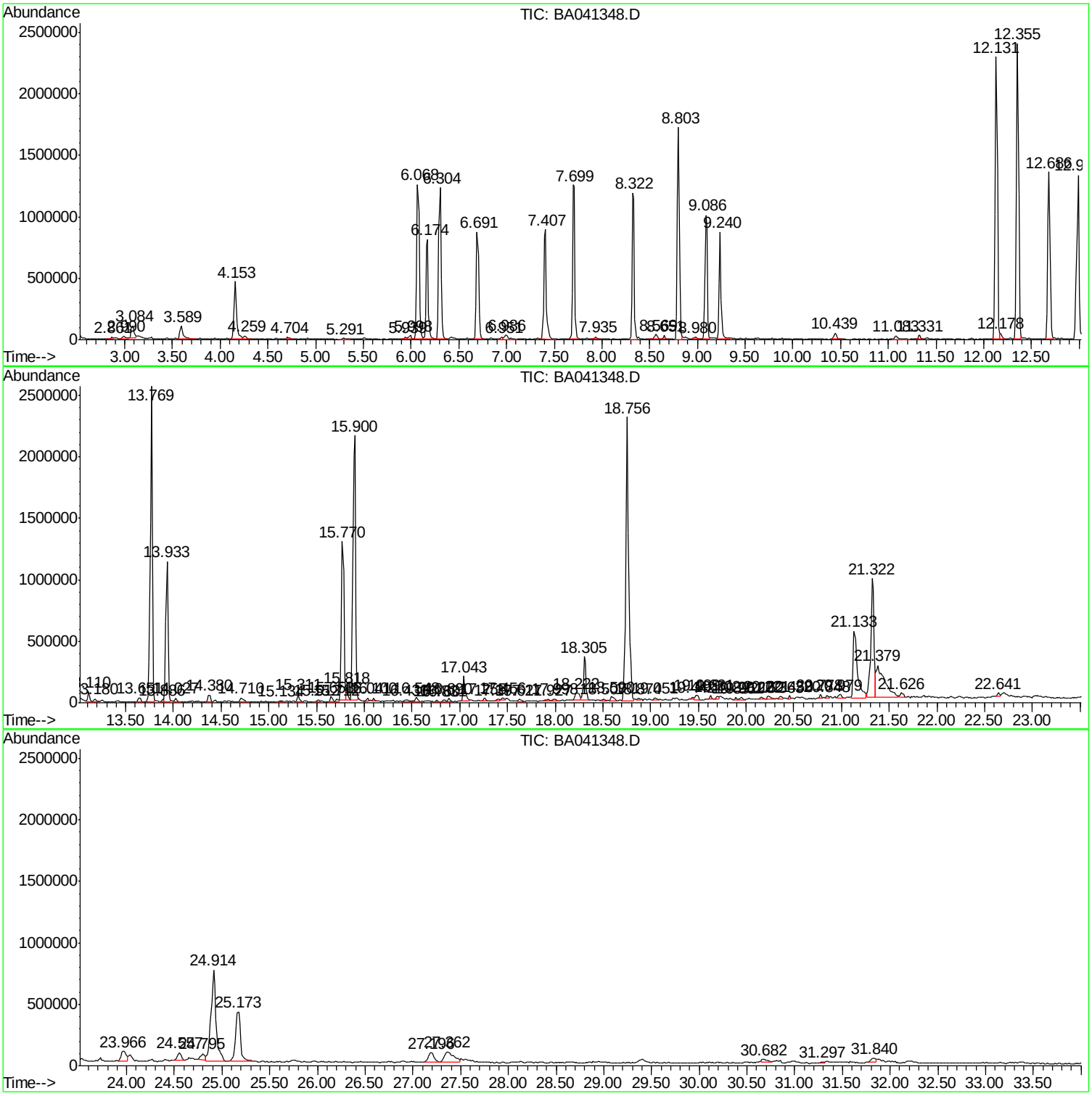
72	19.051	1402	1405	1408	rBV2	15611	31641	0.65%	0.049%
73	19.442	1436	1438	1439	rBV2	15663	26486	0.54%	0.041%
74	19.489	1439	1442	1444	rVB	39281	78041	1.59%	0.121%
75	19.631	1451	1454	1458	rVB3	32999	48076	0.98%	0.074%
76	19.702	1458	1460	1461	rBV	27236	45295	0.92%	0.070%
77	19.892	1474	1476	1478	rBV2	21329	31062	0.63%	0.048%
78	19.951	1478	1481	1484	rVB5	17045	38088	0.78%	0.059%
79	20.162	1497	1499	1503	rVB5	15772	29348	0.60%	0.045%
80	20.221	1503	1504	1511	rBV6	25032	64409	1.31%	0.100%
81	20.363	1513	1516	1518	rBV4	17804	37512	0.77%	0.058%
82	20.458	1522	1524	1525	rBV2	25287	29349	0.60%	0.045%
83	20.778	1549	1551	1553	rVB3	32425	50061	1.02%	0.077%
84	20.848	1555	1557	1559	rBV3	20716	42183	0.86%	0.065%
85	20.979	1566	1568	1573	rVB3	29630	69961	1.43%	0.108%
86	21.133	1578	1581	1591	rVV2	541655	1637698	33.41%	2.533%
87	21.322	1592	1597	1600	rVV	967987	2452403	50.04%	3.793%
88	21.379	1600	1602	1620	rVV3	258853	1555307	31.73%	2.406%
89	21.626	1621	1623	1628	rVB5	36060	75183	1.53%	0.116%
90	22.641	1707	1709	1711	rBV3	24851	32617	0.67%	0.050%
91	23.966	1816	1821	1825	rBV3	80764	306708	6.26%	0.474%
92	24.557	1866	1871	1875	rBV3	65700	198605	4.05%	0.307%
93	24.795	1887	1891	1894	rBV5	51890	161305	3.29%	0.250%
94	24.914	1894	1901	1912	rVB	741590	2774131	56.60%	4.291%
95	25.173	1916	1923	1935	rVB	404278	1463467	29.86%	2.264%
96	27.196	2087	2094	2101	rBV3	75867	330197	6.74%	0.511%
97	27.362	2102	2108	2119	rBV7	81042	548517	11.19%	0.848%
98	30.682	2386	2389	2395	rVB6	20758	86813	1.77%	0.134%
99	31.297	2437	2441	2443	rBV4	11242	33861	0.69%	0.052%
100	31.840	2481	2487	2488	rBV6	32822	102311	2.09%	0.158%

Sum of corrected areas: 64651263

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

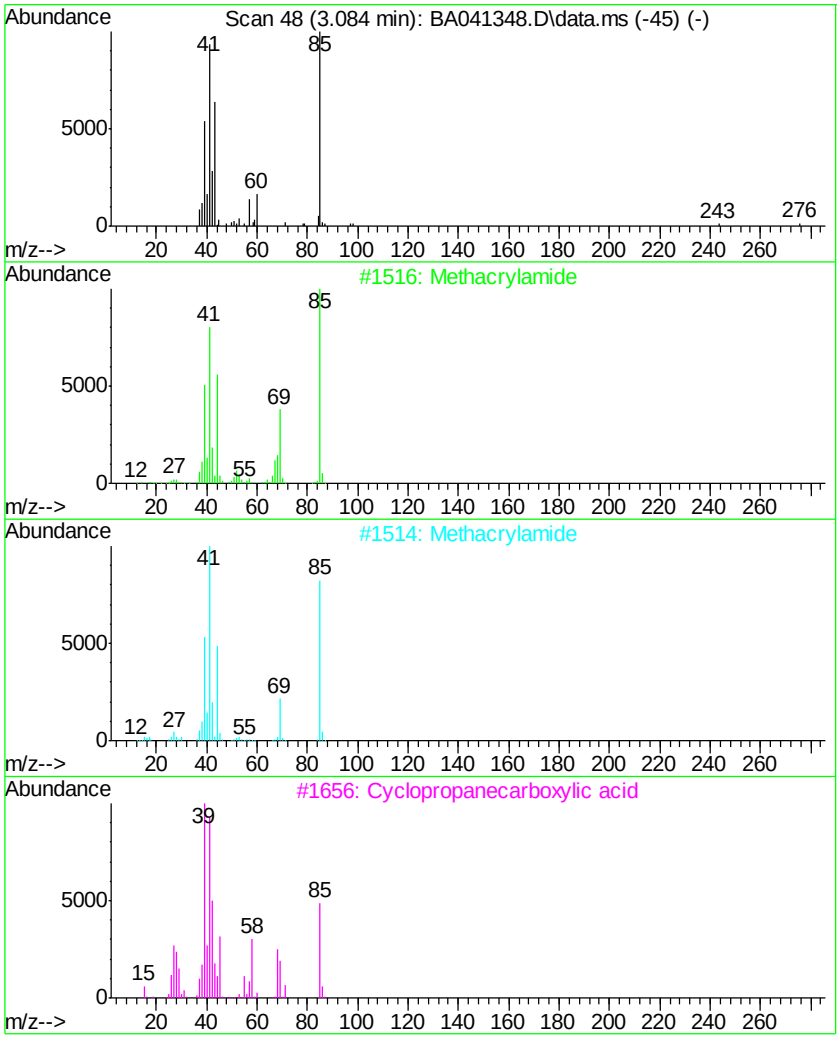
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

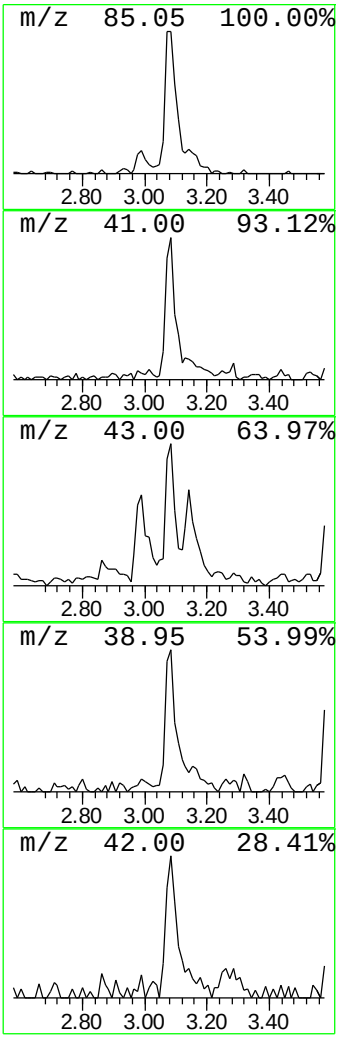
****

Peak Number 1 Methacrylamide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.080	2.71 ng/ul	202555	1,4-Dichlorobenzene-d4	6.691

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methacrylamide	85	C4H7NO	000079-39-0	59
2	Methacrylamide	85	C4H7NO	000079-39-0	59
3	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	59
4	trans-Crotonamide	85	C4H7NO	000625-37-6	59
5	Methacrylamide	85	C4H7NO	000079-39-0	53





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

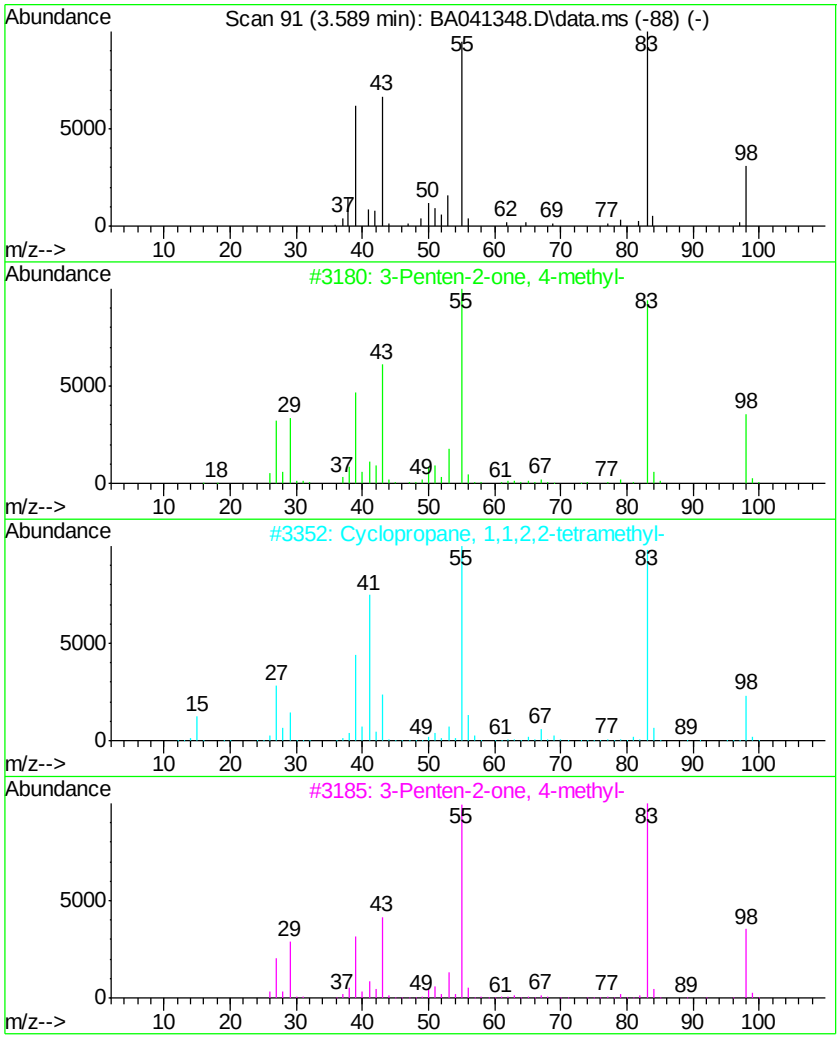
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

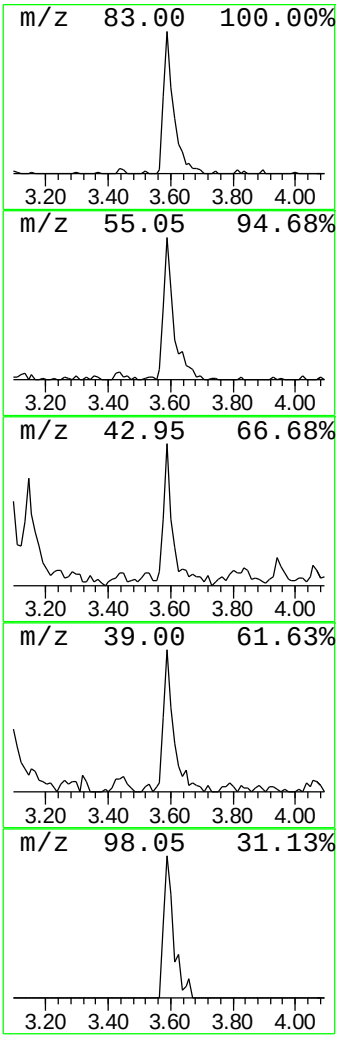
****

Peak Number 2 3-Penten-2-one, 4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.590	3.35 ng/ul	250021	1,4-Dichlorobenzene-d4	6.691

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	90
2	Cyclopropane, 1,1,2,2-tetramethyl-	98	C7H14	004127-47-3	64
3	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	59
4	3-Hexen-2-one	98	C6H10O	000763-93-9	58
5	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	58





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

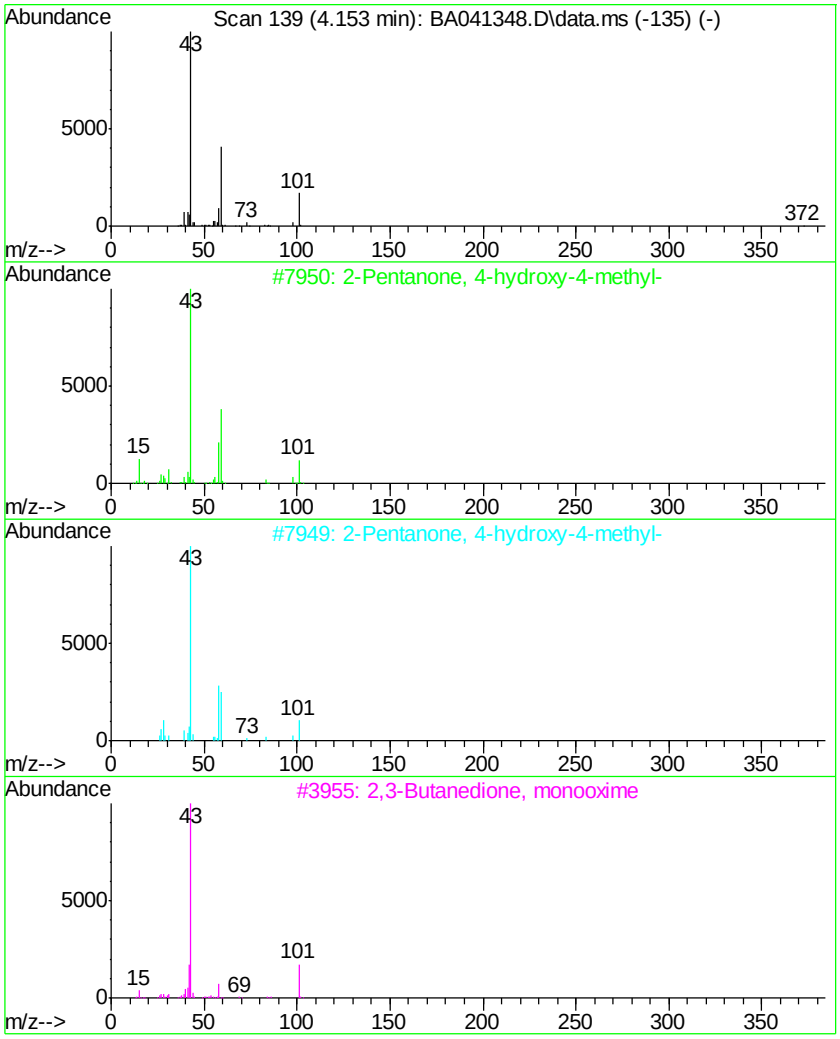
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

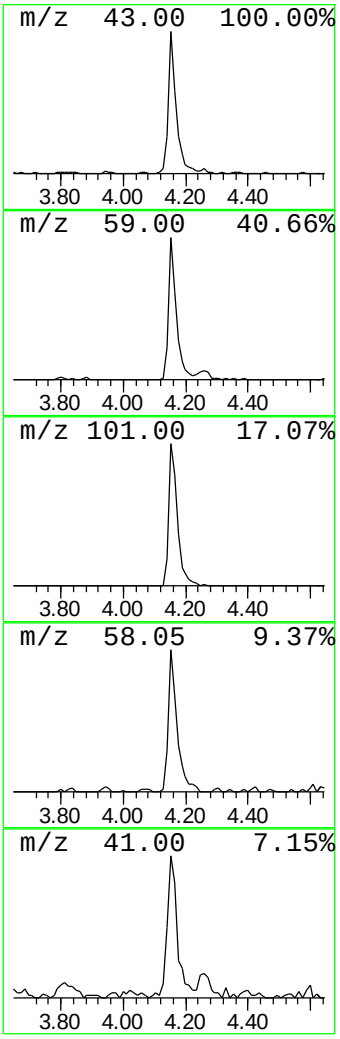
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.150	11.44 ng/ul	854453	1,4-Dichlorobenzene-d4	6.691

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	9
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	9





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

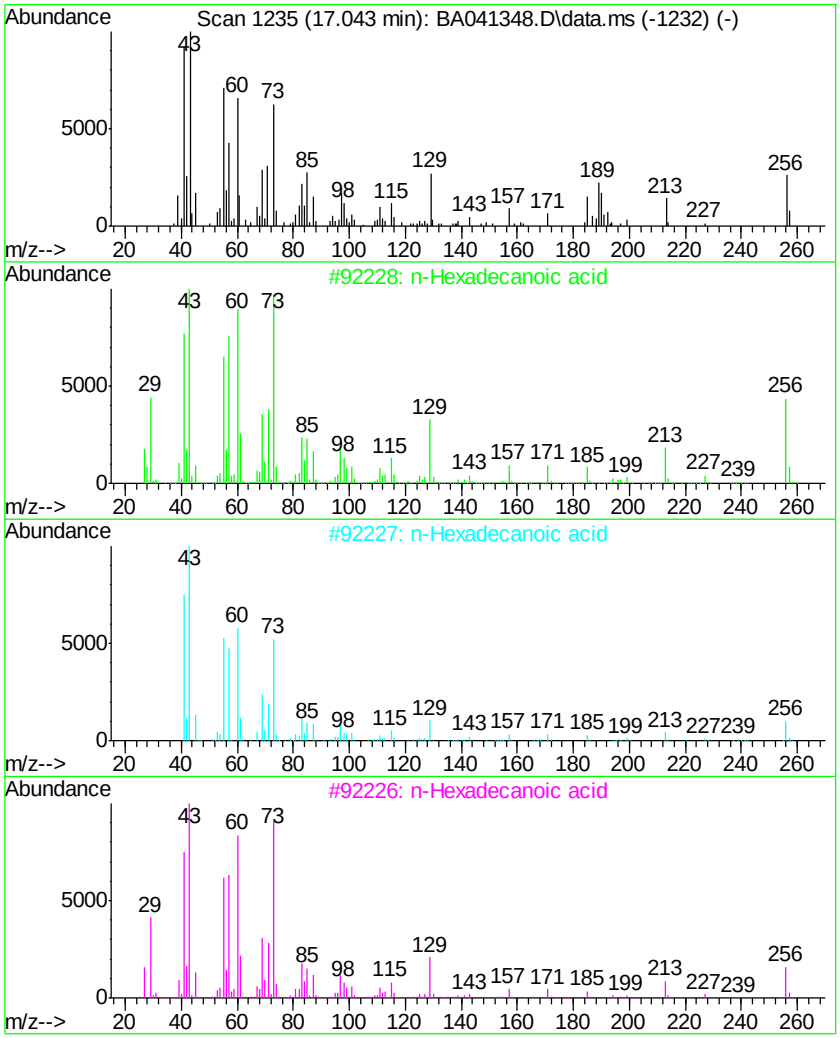
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

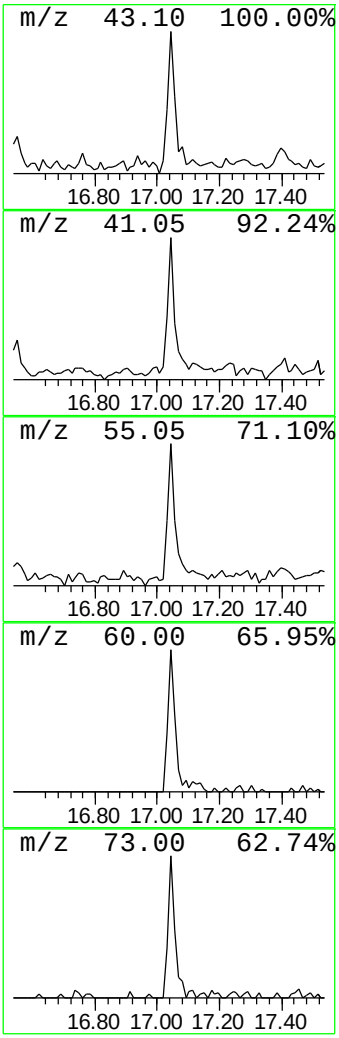
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.040	3.18 ng/ul	358153	Phenanthrene-d10	15.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	78
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	70
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	45
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	38





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

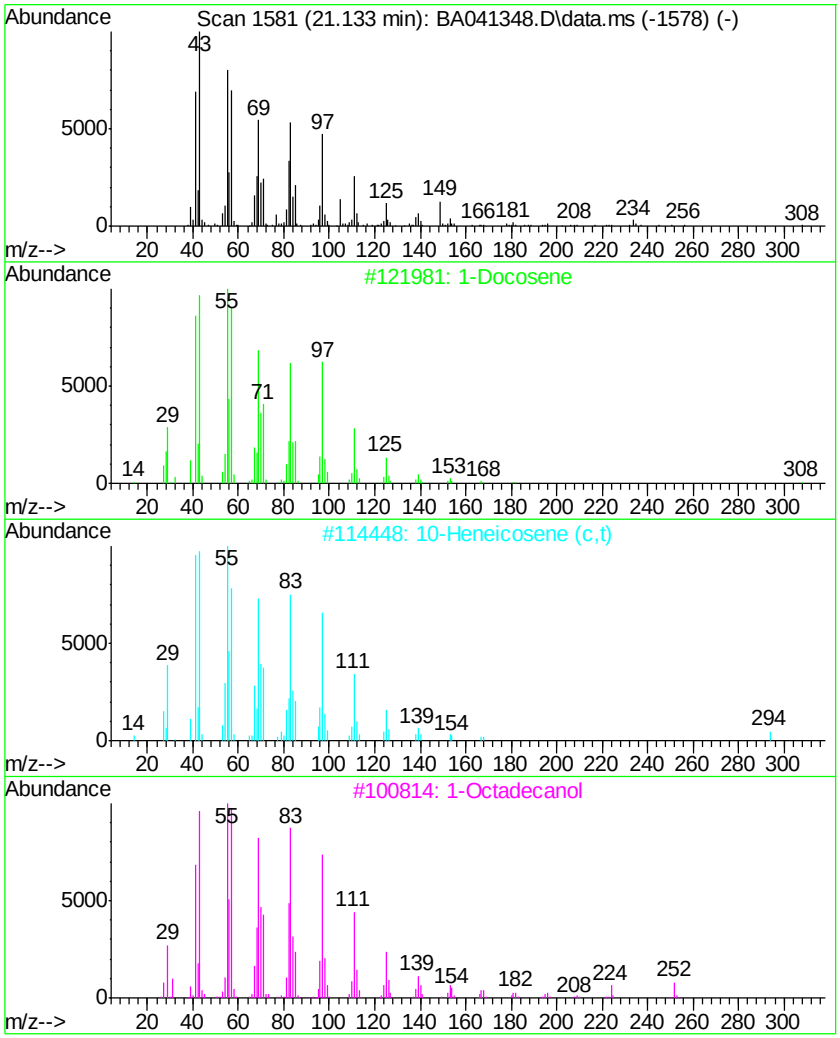
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

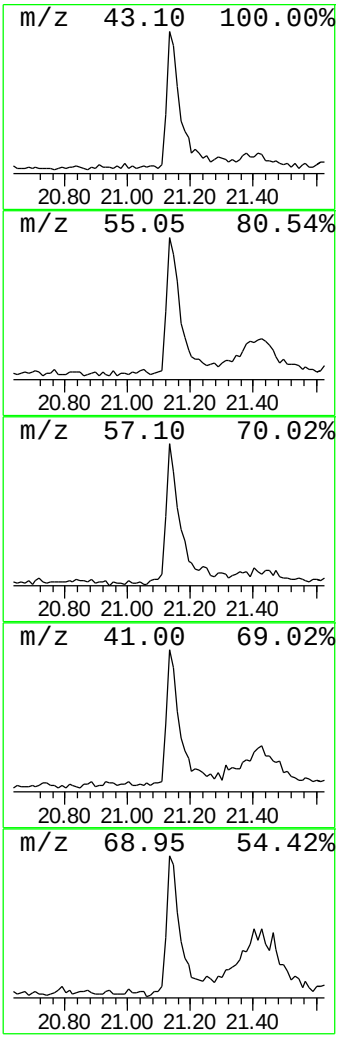
****

Peak Number 5 1-Docosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.130	13.36 ng/ul	1637700	Chrysene-d12	21.322

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	90
2	10-Heneicosene (c,t)	294	C21H42	095008-11-0	87
3	1-Octadecanol	270	C18H38O	000112-92-5	86
4	1-Eicosanol	298	C20H42O	000629-96-9	83
5	1-Docosanol	326	C22H46O	000661-19-8	80





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

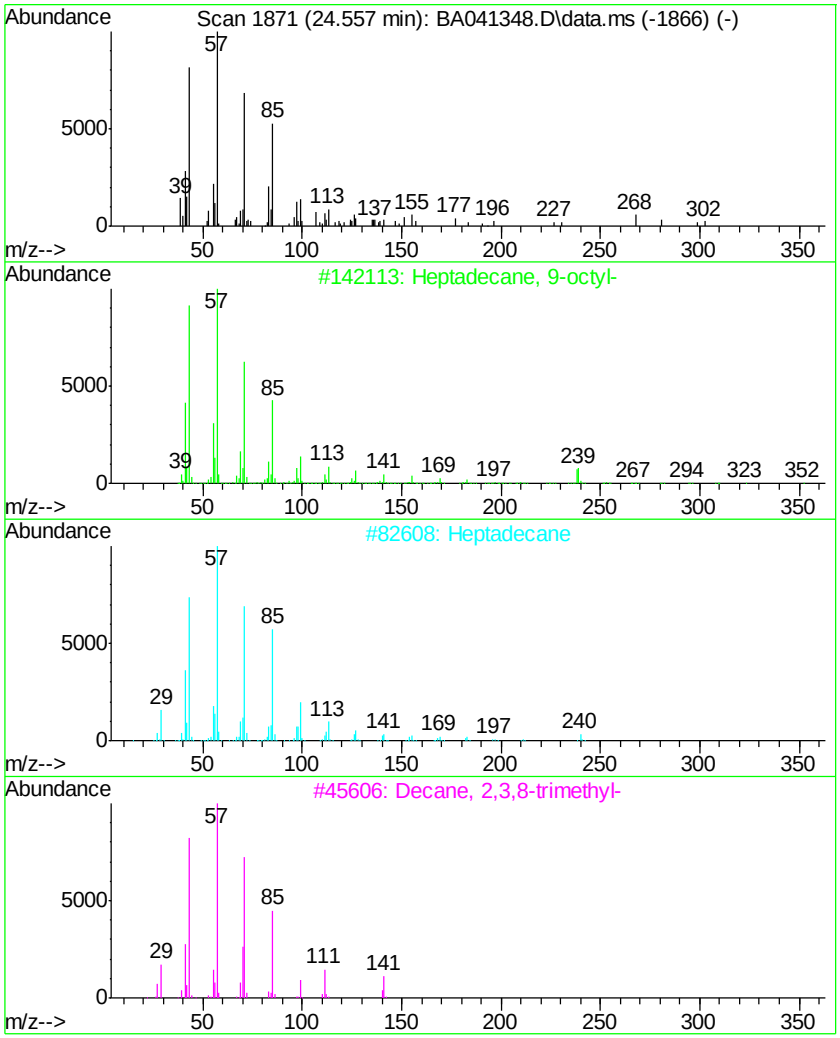
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

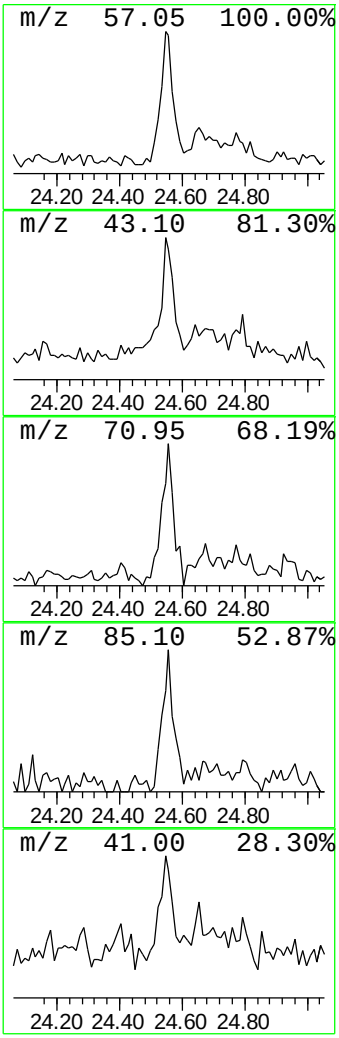
****

Peak Number 6 Heptadecane, 9-octyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.560	2.71 ng/ul	198605	Perylene-d12	25.174

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	72
2	Heptadecane	240	C17H36	000629-78-7	59
3	Decane, 2,3,8-trimethyl-	184	C13H28	062238-14-6	53
4	Nonadecane	268	C19H40	000629-92-5	53
5	Decane, 1-iodo-	268	C10H21I	002050-77-3	50





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

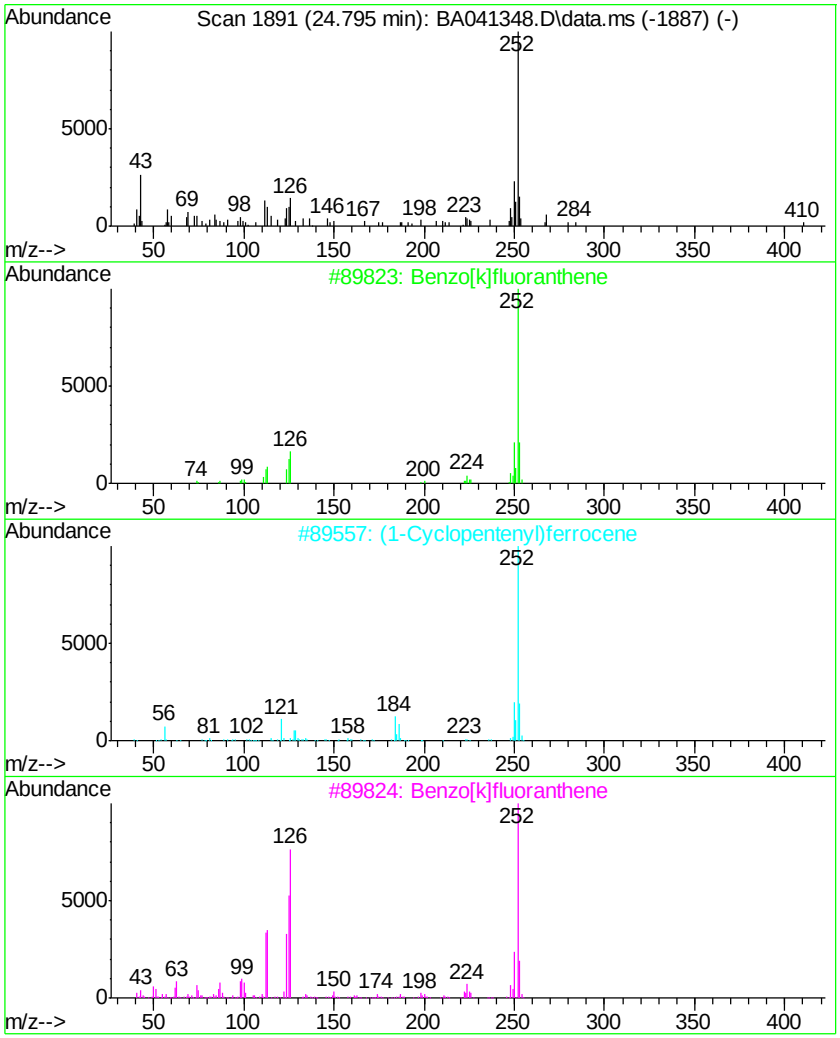
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

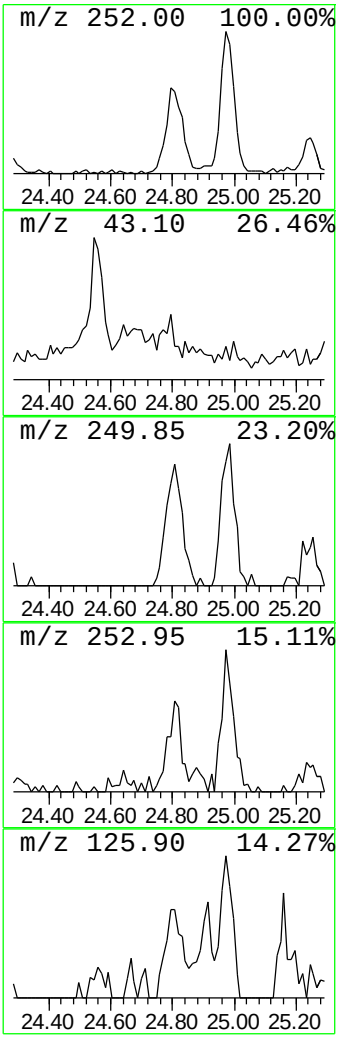
****

Peak Number 7 (1-Cyclopentenyl)ferrocene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.790	2.20 ng/ul	161305	Perylene-d12	25.174

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	86
2	(1-Cyclopentenyl)ferrocene	252	C15H16Fe	012260-67-2	72
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	70
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	68
5	Benzo[a]pyrene	252	C20H12	000050-32-8	68





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On    : 21 Oct 2008   8:35
Operator  : HNP
Sample    : Z4923-09
Misc      :
ALS Vial  : 22   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

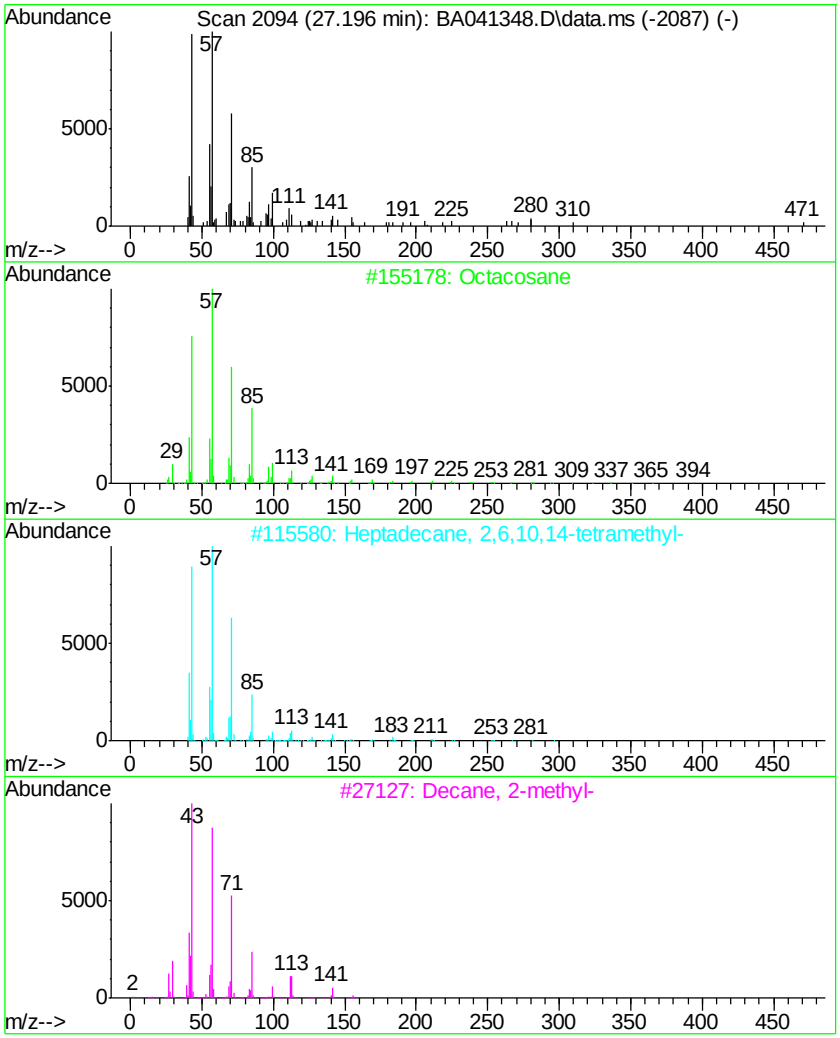
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

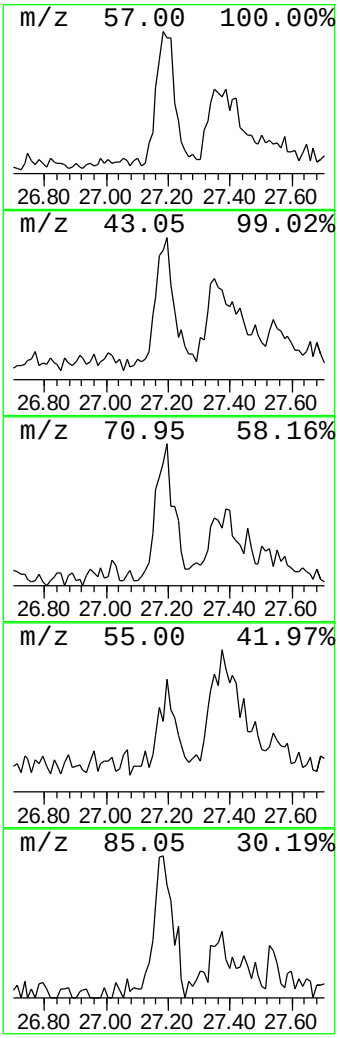
****

Peak Number 8 Octacosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.200	4.51 ng/ul	330197	Perylene-d12	25.174

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	74
2	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	72
3	Decane, 2-methyl-	156	C11H24	006975-98-0	72
4	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	72
5	Tridecane, 4-methyl-	198	C14H30	026730-12-1	72





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

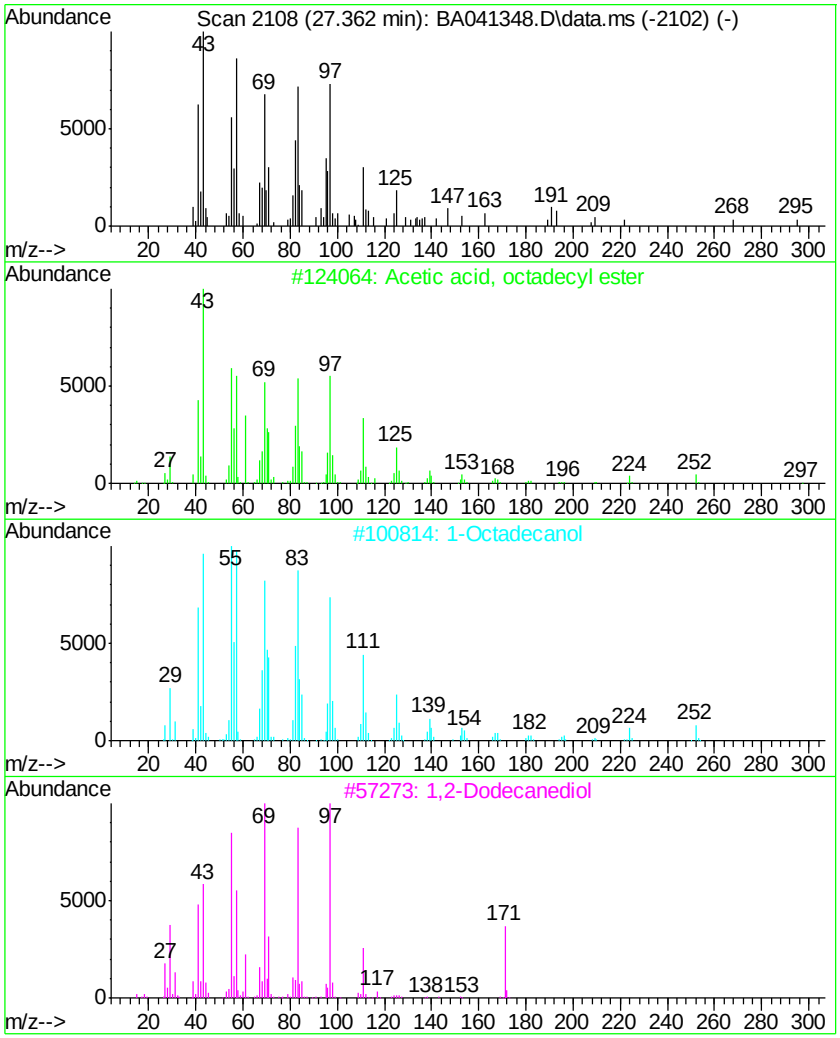
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

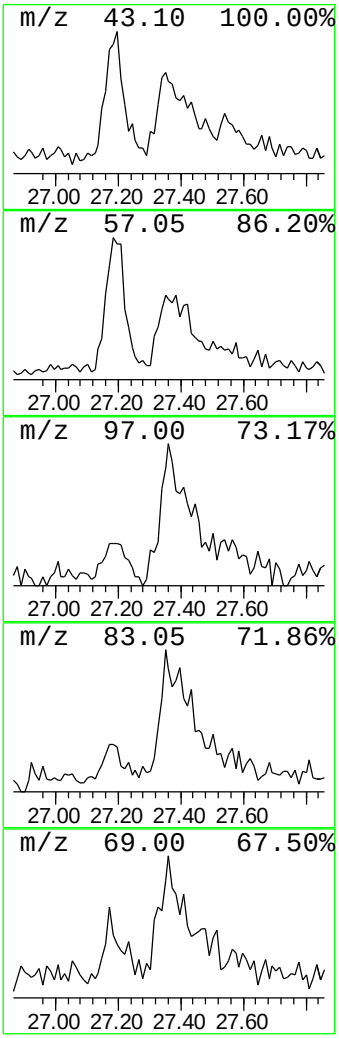
****

Peak Number 9 Acetic acid, octadecyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.360	7.50 ng/ul	548517	Perylene-d12	25.174

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	58
2	1-Octadecanol	270	C18H38O	000112-92-5	43
3	1,2-Dodecanediol	202	C12H26O2	001119-87-5	43
4	Cycloheptane, methyl-	112	C8H16	004126-78-7	38
5	2-Cyclohexen-1-ol, 3-methyl-	112	C7H12O	021378-21-2	38





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041348.D
Acq On : 21 Oct 2008 8:35
Operator : HNP
Sample : Z4923-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Methacrylamide	3.080	2.7	ng/ul	202555	1	6.691	1493930	20.0
3-Penten-2-one,...	3.590	3.4	ng/ul	250021	1	6.691	1493930	20.0
2-Pentanone, 4-...	4.150	11.4	ng/ul	854453	1	6.691	1493930	20.0
n-Hexadecanoic ...	17.040	3.2	ng/ul	358153	4	15.770	2252830	20.0
1-Docosene	21.130	13.4	ng/ul	1637700	5	21.322	2452400	20.0
Heptadecane, 9-...	24.560	2.7	ng/ul	198605	6	25.174	1463470	20.0
(1-Cyclopenteny...	24.790	2.2	ng/ul	161305	6	25.174	1463470	20.0
Octacosane	27.200	4.5	ng/ul	330197	6	25.174	1463470	20.0
Acetic acid, oc...	27.360	7.5	ng/ul	548517	6	25.174	1463470	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-3B[4.0-4.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-10

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041346.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.44 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	96	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-3B[4.0-4.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-10

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041346.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.44 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	44	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	67	J
218-01-9	Chrysene	100	J
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	110	J
207-08-9	Benzo(k)fluoranthene	41	J
50-32-8	Benzo(a)pyrene	74	J
193-39-5	Indeno(1,2,3-cd)pyrene	53	J
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	1200	
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC3-3B[4.0-4.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-10

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041346.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.44 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

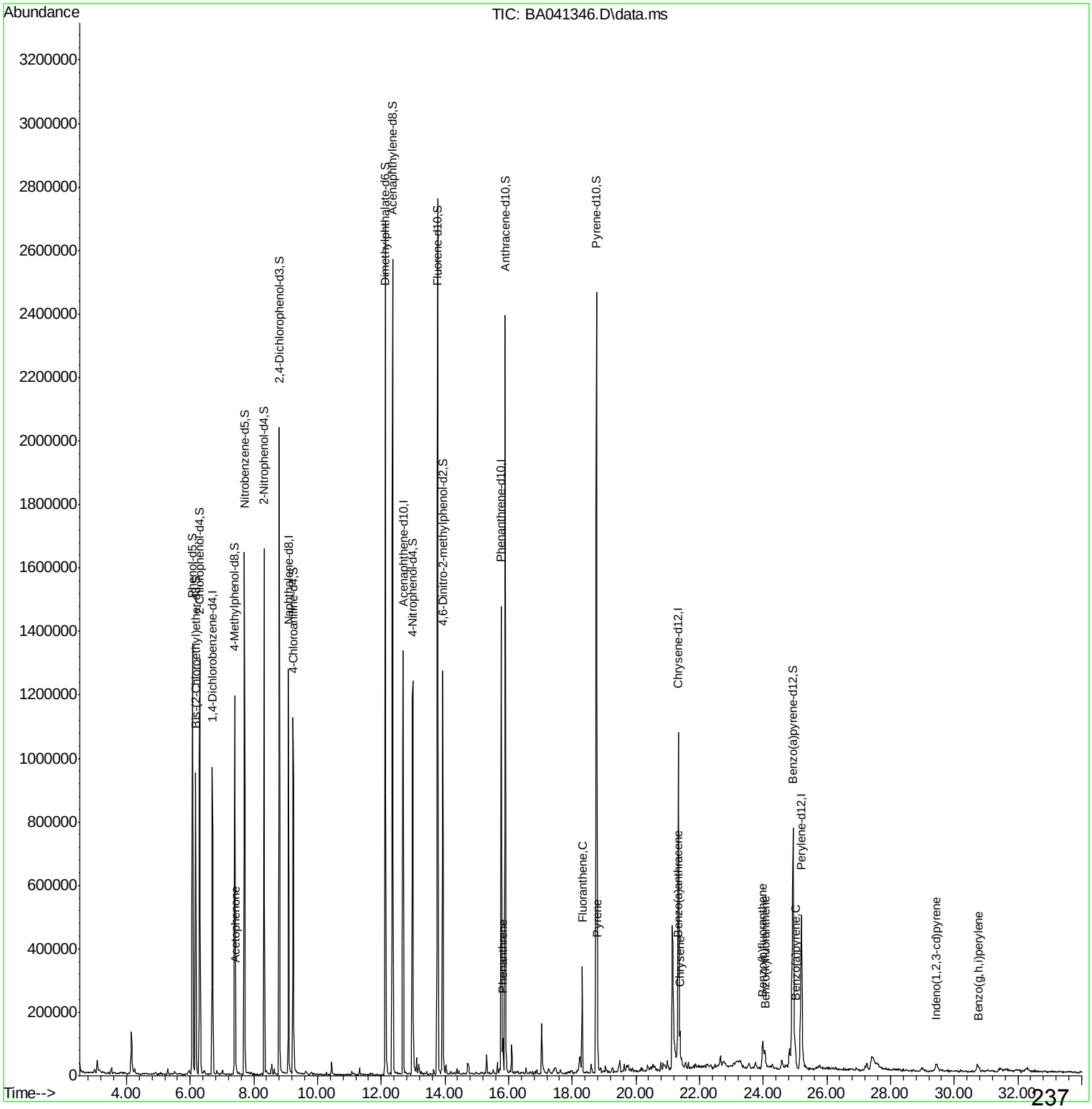
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.		unknown4.15	4.15	140	J
02.	57-10-3	n-Hexadecanoic acid	17.04	91	JNB
03.	1599-67-3	1-Docosene	21.15	520	JN
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:52:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

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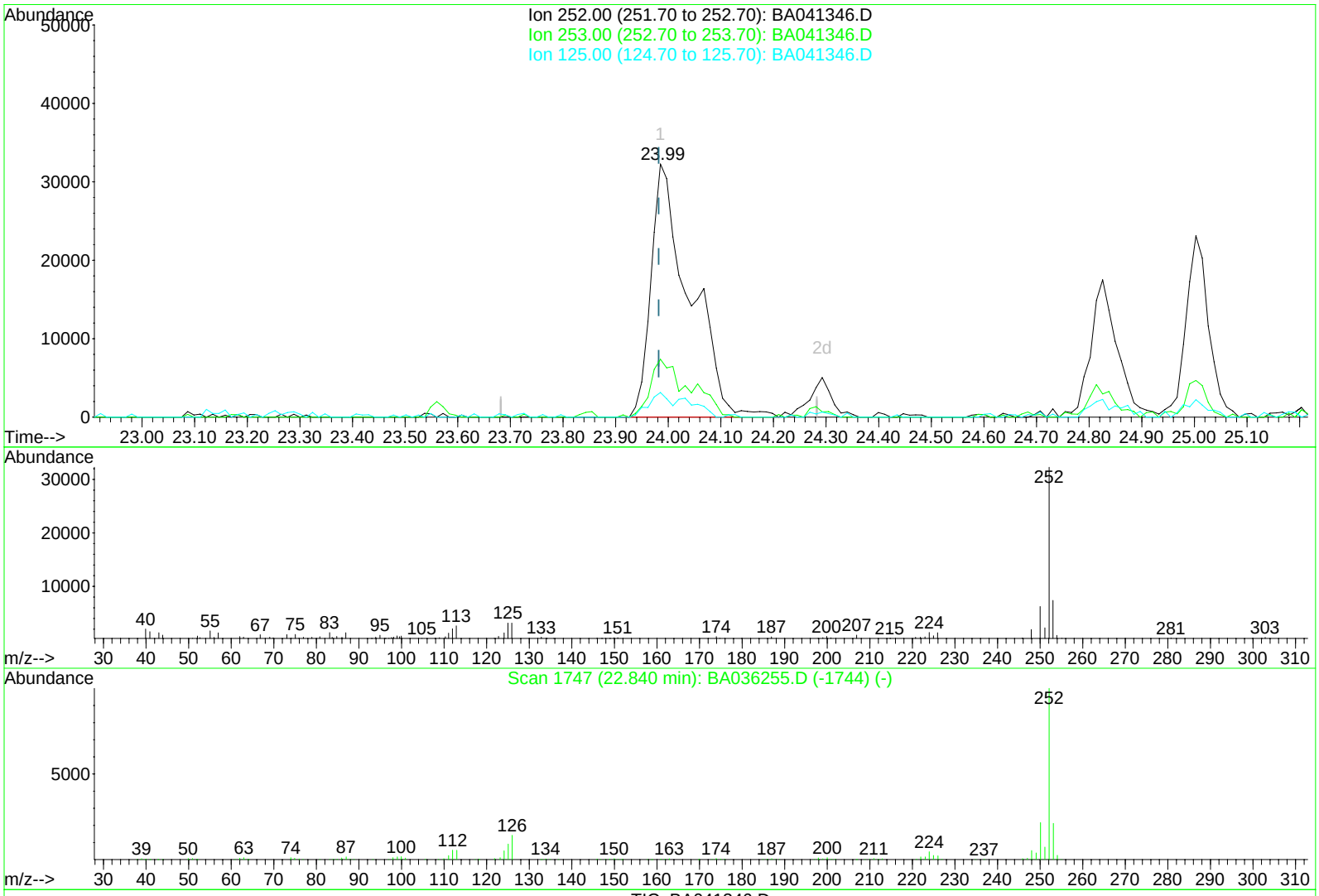
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041346.D

(84) Benzo(k)fluoranthene

23.985min (+0.003) 4.55ng/ul

response 165366

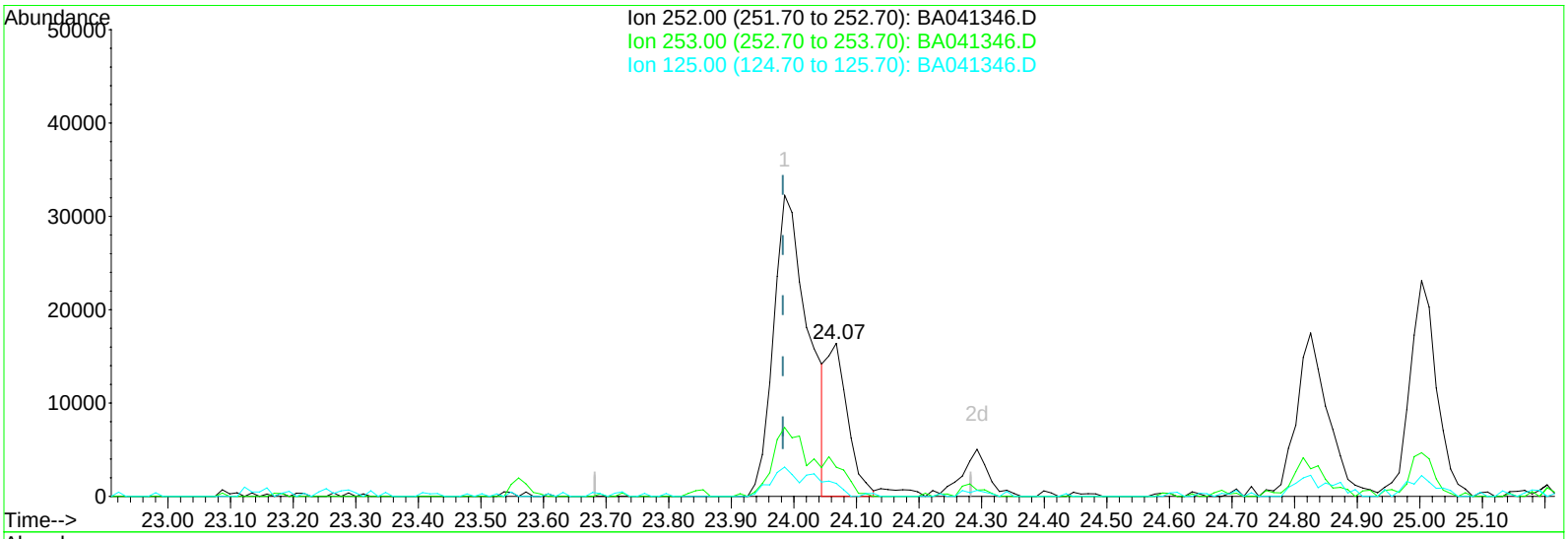
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	22.87
125.00	4.40	9.74#
0.00	0.00	0.00

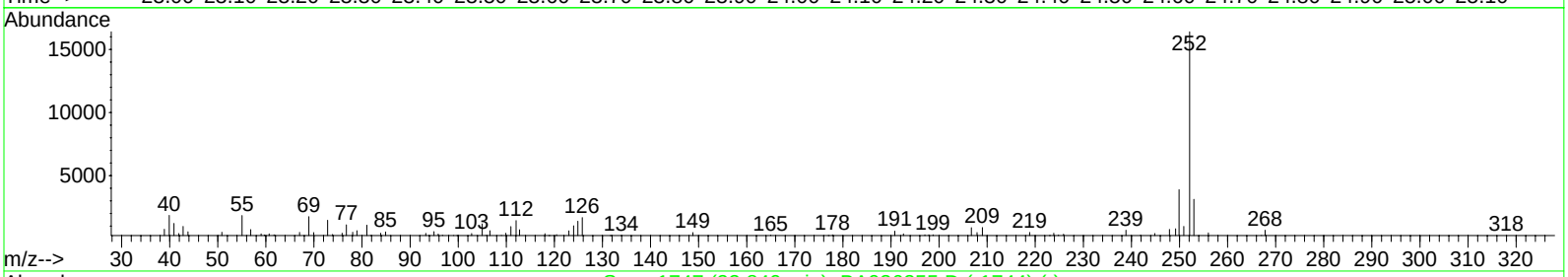
238

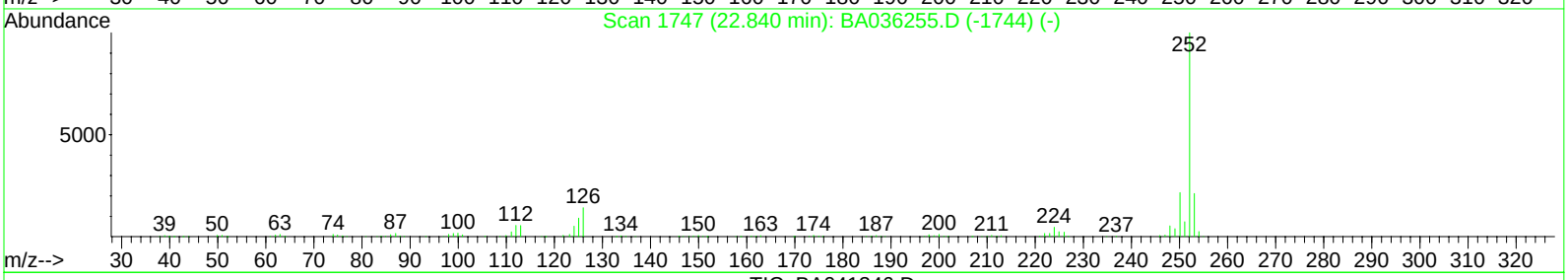
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041346.D

(84) Benzo(k)fluoranthene

24.068min (+0.085) 1.05ng/ul m

response 38152

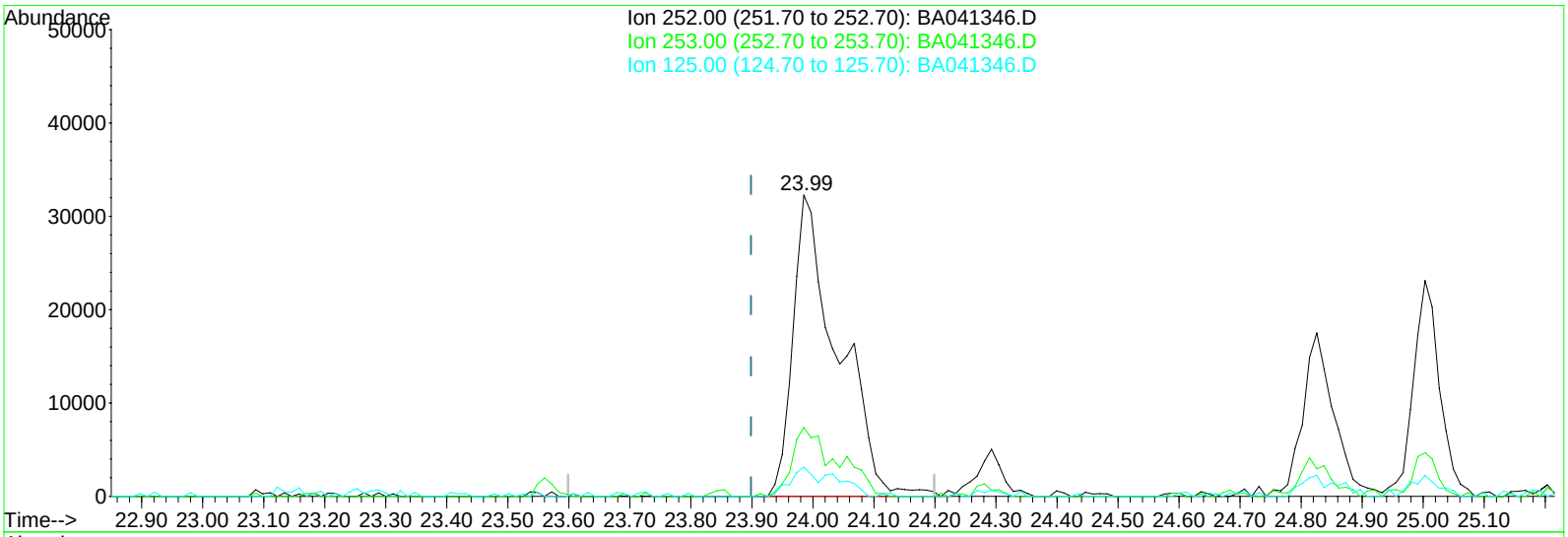
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	19.05
125.00	4.40	8.50#
0.00	0.00	0.00

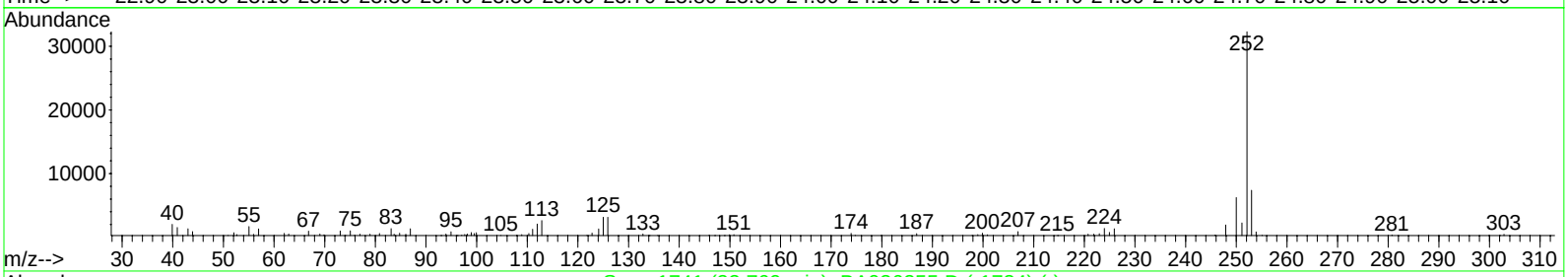
239

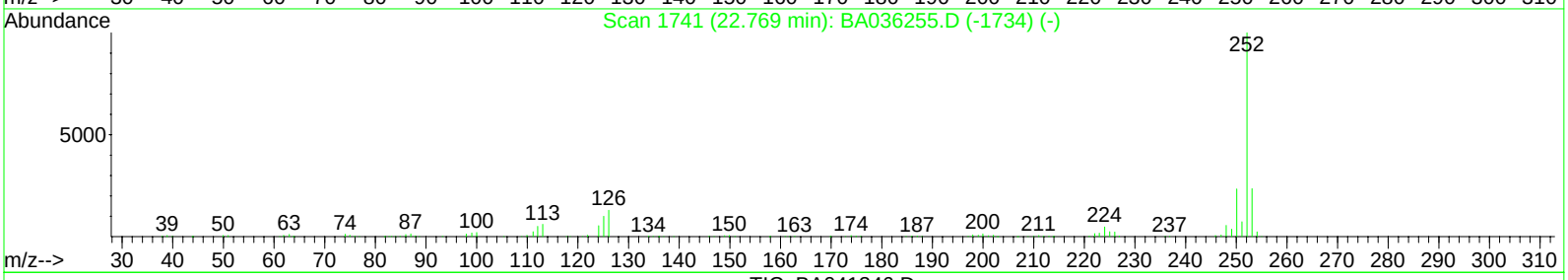
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041346.D

(83) Benzo(b)fluoranthene

23.985min (+0.086) 3.87ng/ul

response 165366

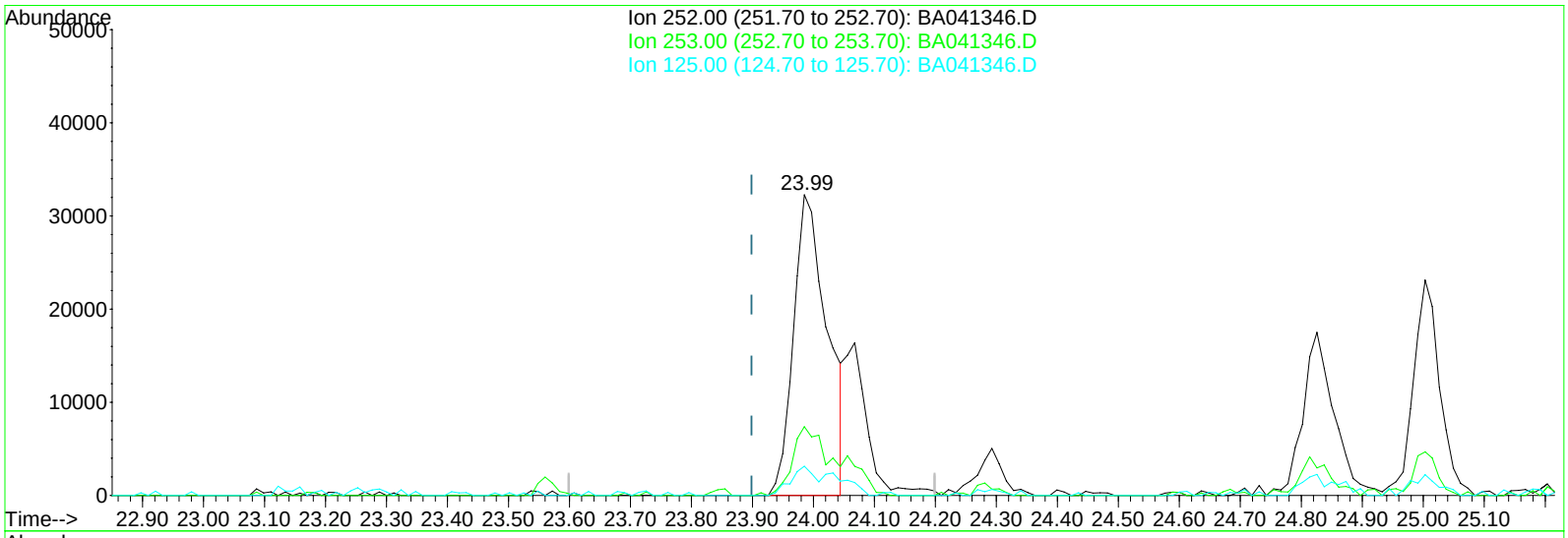
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	22.87
125.00	5.10	9.74#
0.00	0.00	0.00

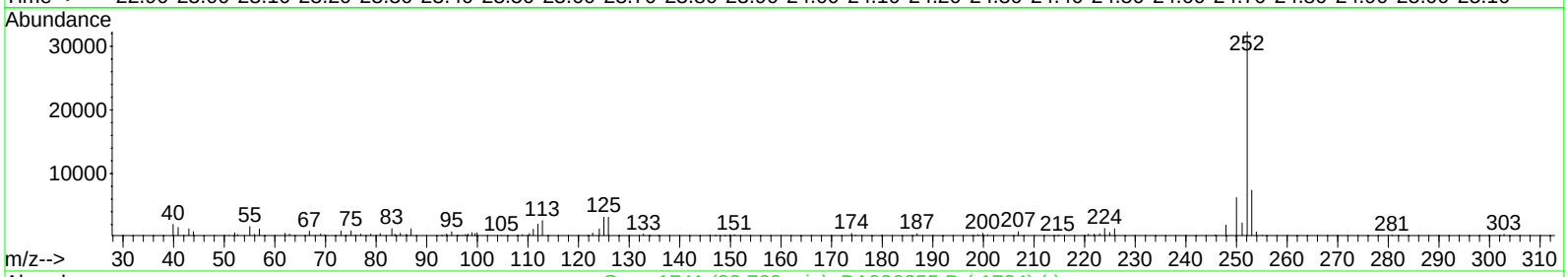
240

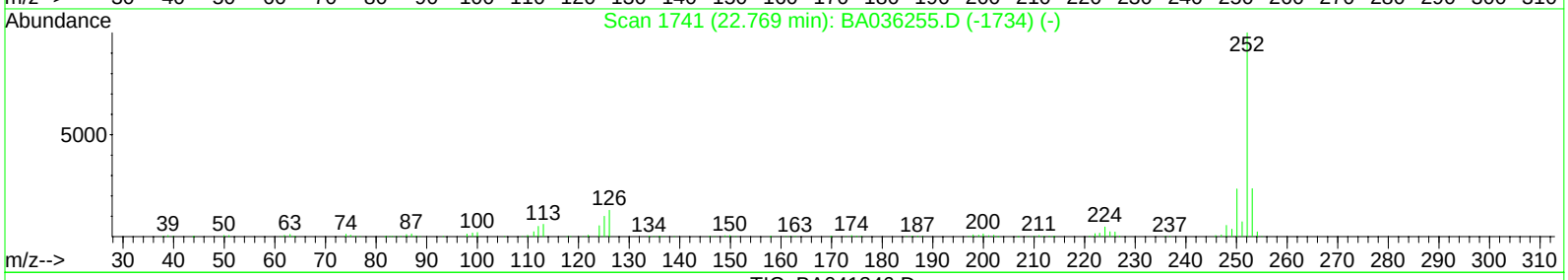
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041346.D

(83) Benzo(b)fluoranthene

23.985min (+0.086) 2.91ng/ul m

response 124110

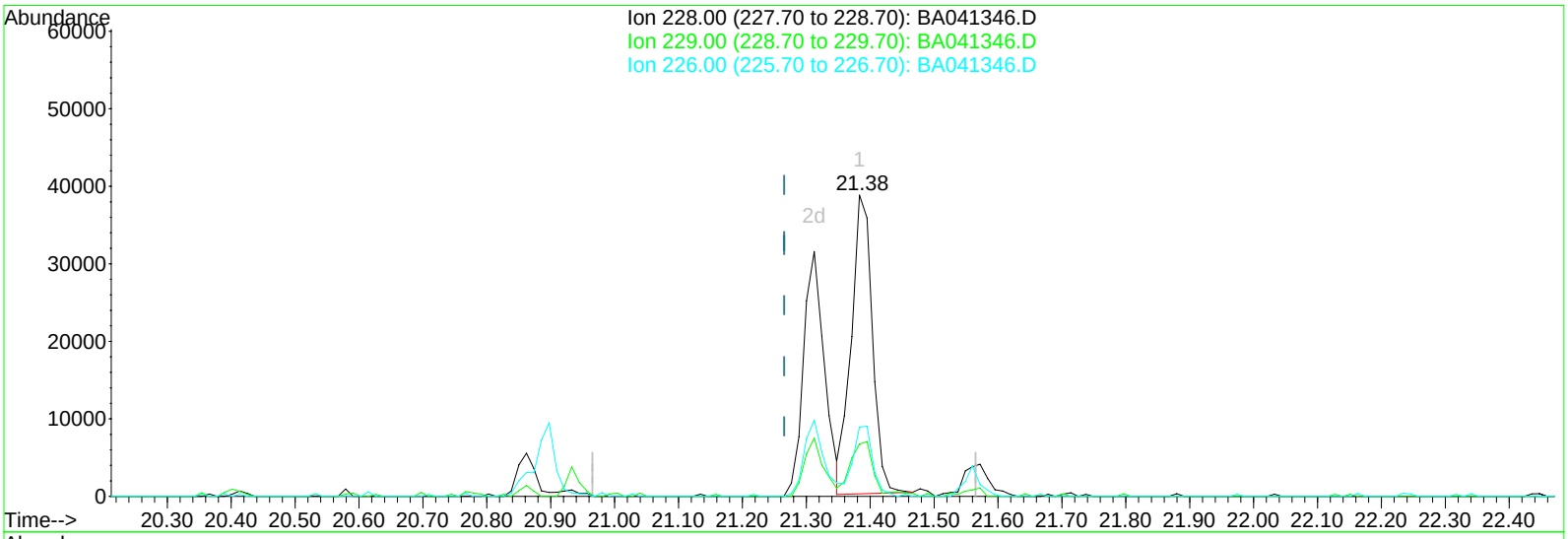
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	22.87
125.00	5.10	9.74#
0.00	0.00	0.00

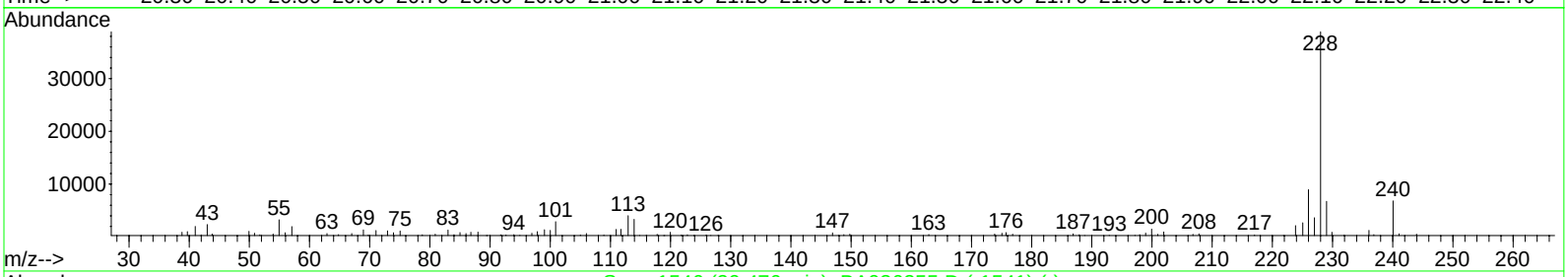
241

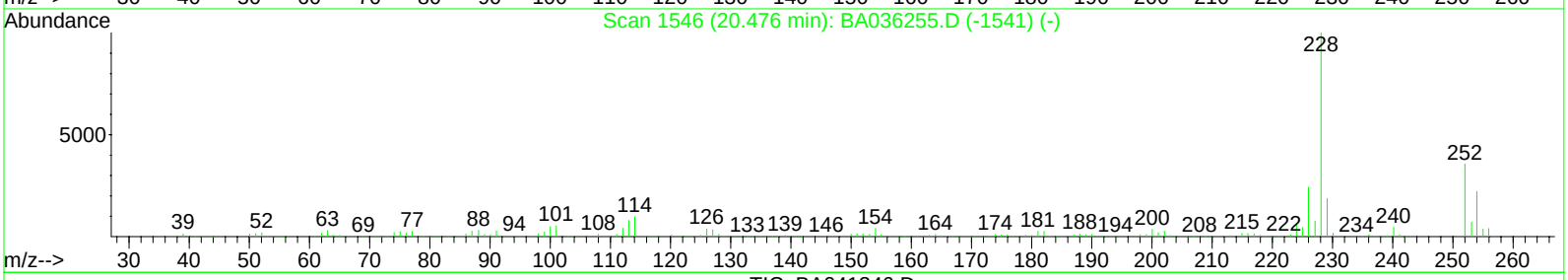
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041346.D

(78) Benzo(a)anthracene

21.383min (+0.118) 2.11ng/ul

response 88218

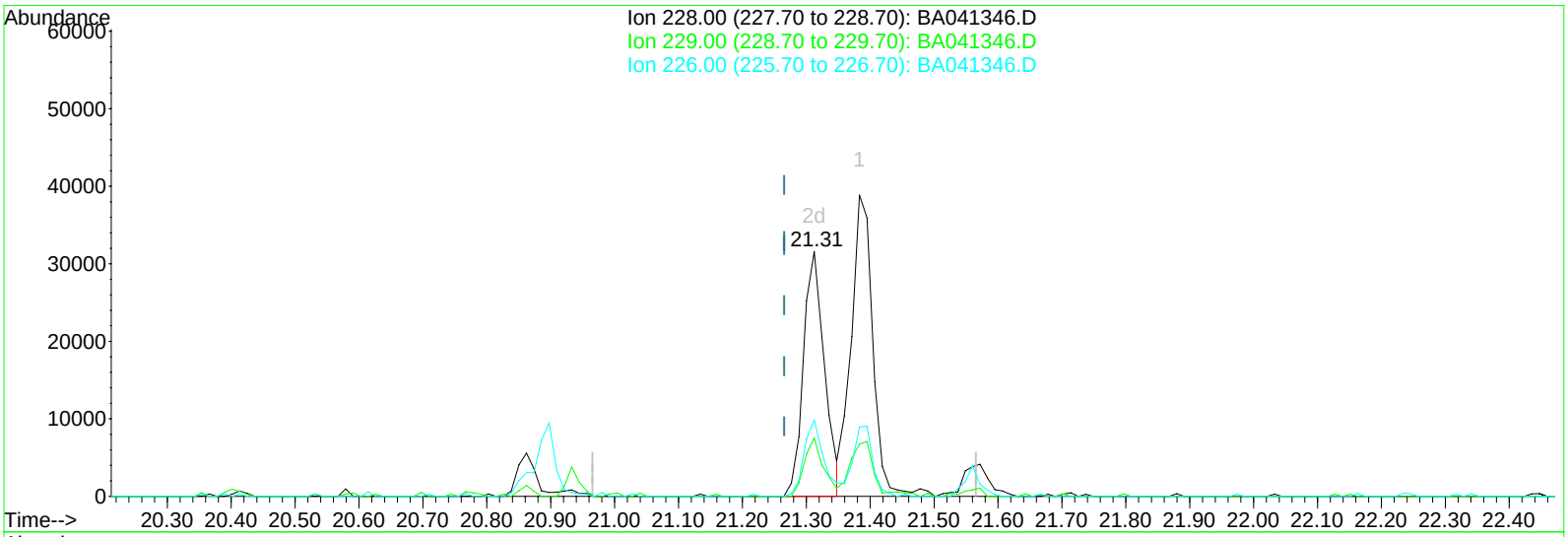
Ion	Exp%	Act%
228.00	100	100
229.00	19.90	17.31
226.00	25.20	23.05
0.00	0.00	0.00

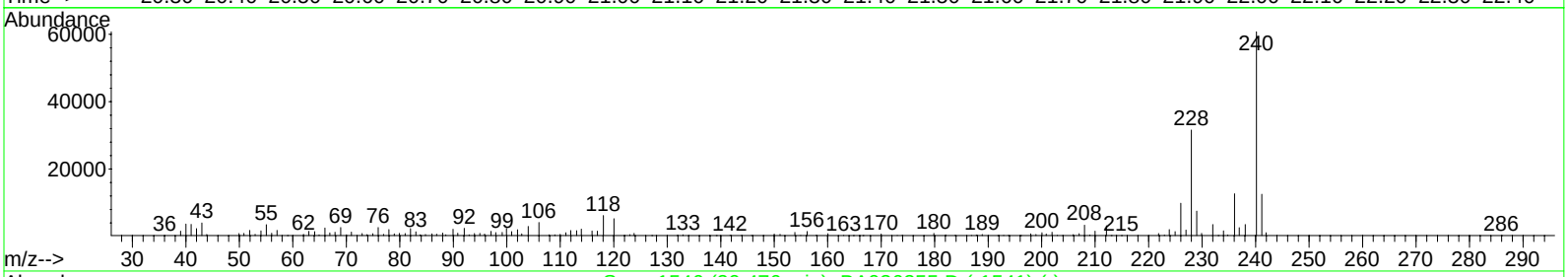
242

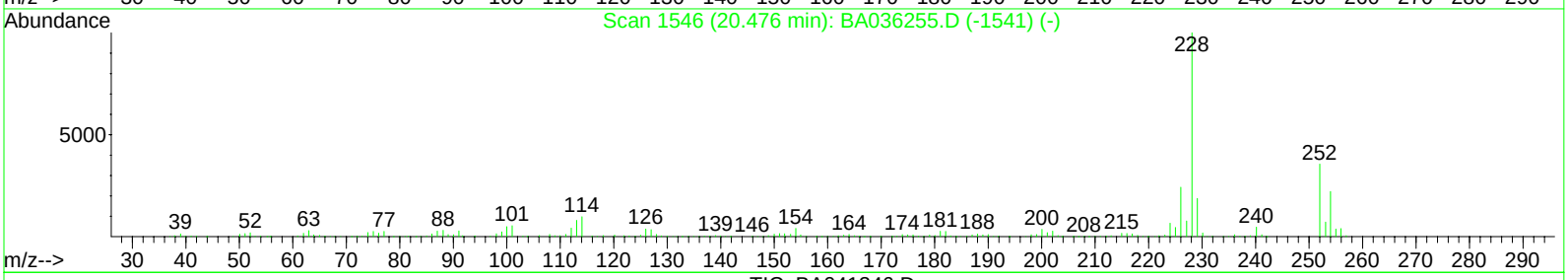
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041346.D

(78) Benzo(a)anthracene

21.312min (+0.047) 1.72ng/ul m

response 72196

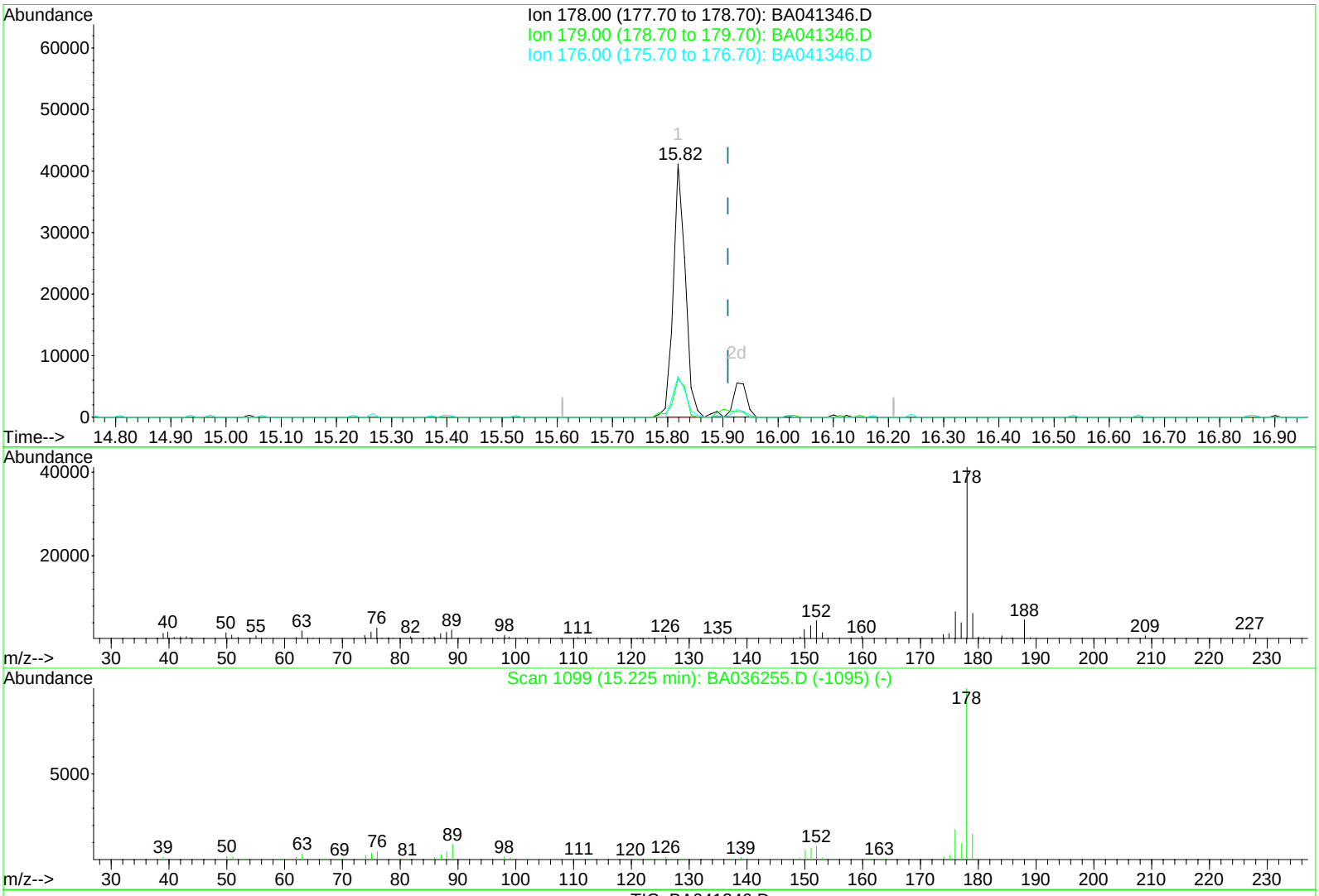
Ion	Exp%	Act%
228.00	100	100
229.00	19.90	23.84
226.00	25.20	31.19#
0.00	0.00	0.00

243

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041346.D

(69) Anthracene

15.819min (-0.090) 1.11ng/ul

response 62659

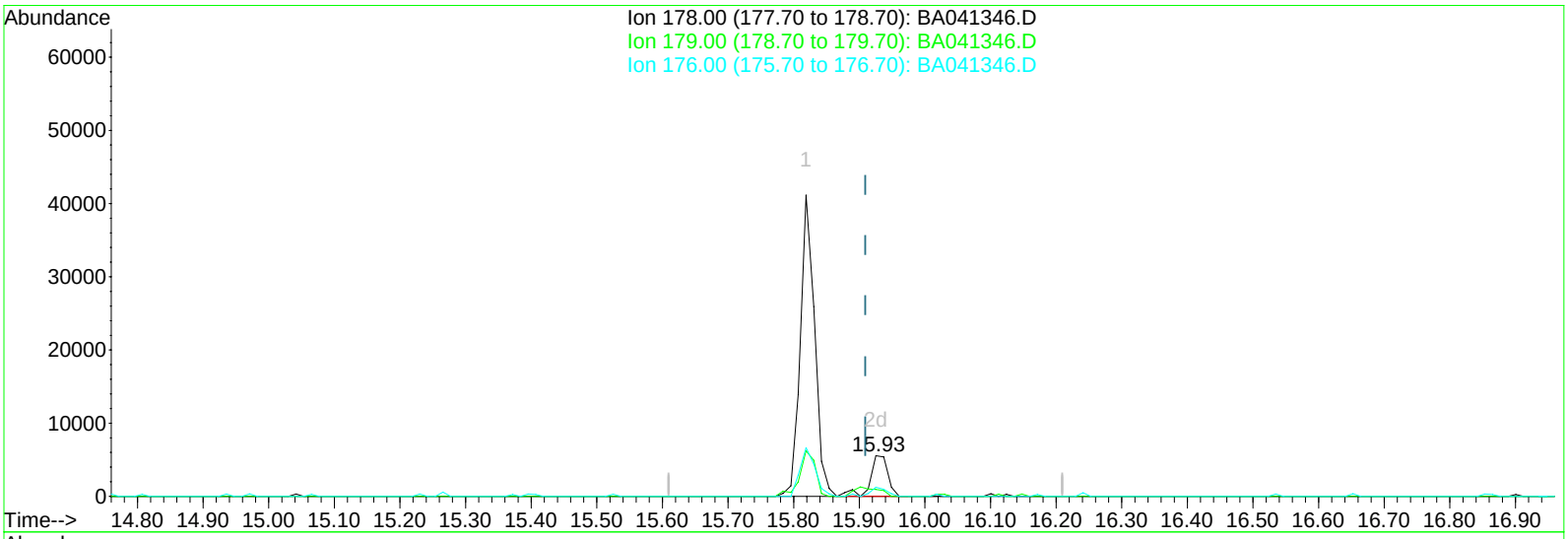
Ion	Exp%	Act%
178.00	100	100
179.00	14.90	15.14
176.00	17.90	16.16
0.00	0.00	0.00

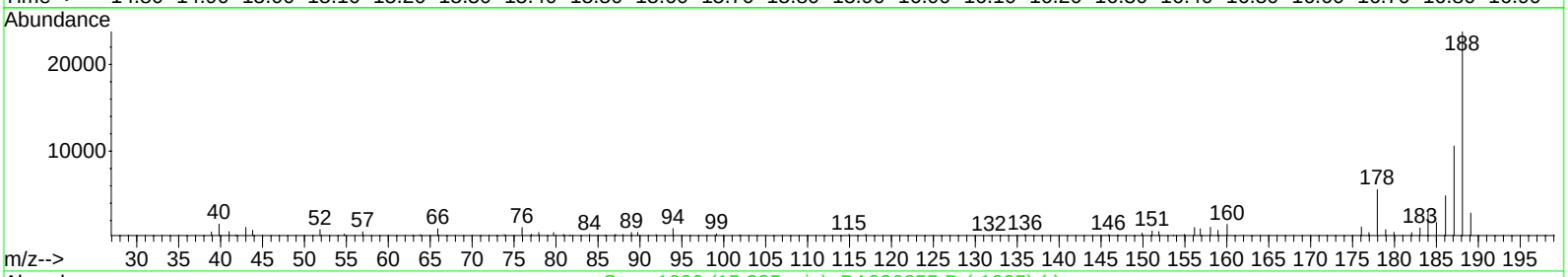
244

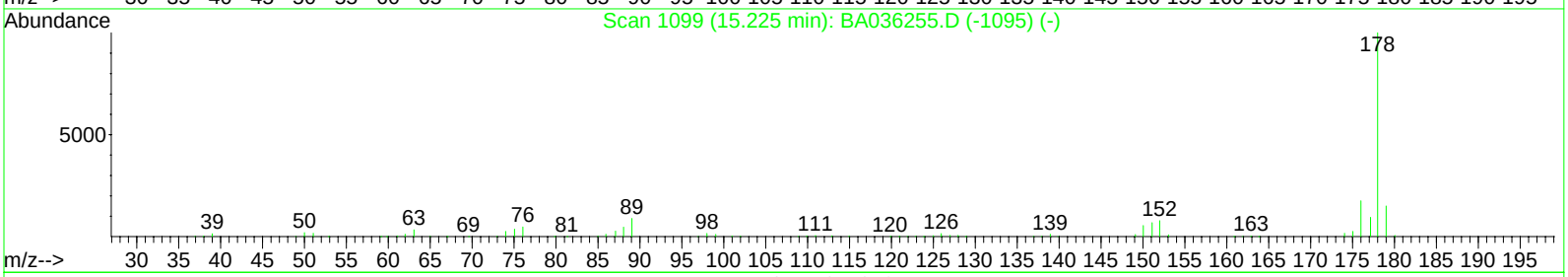
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:49:25 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041346.D

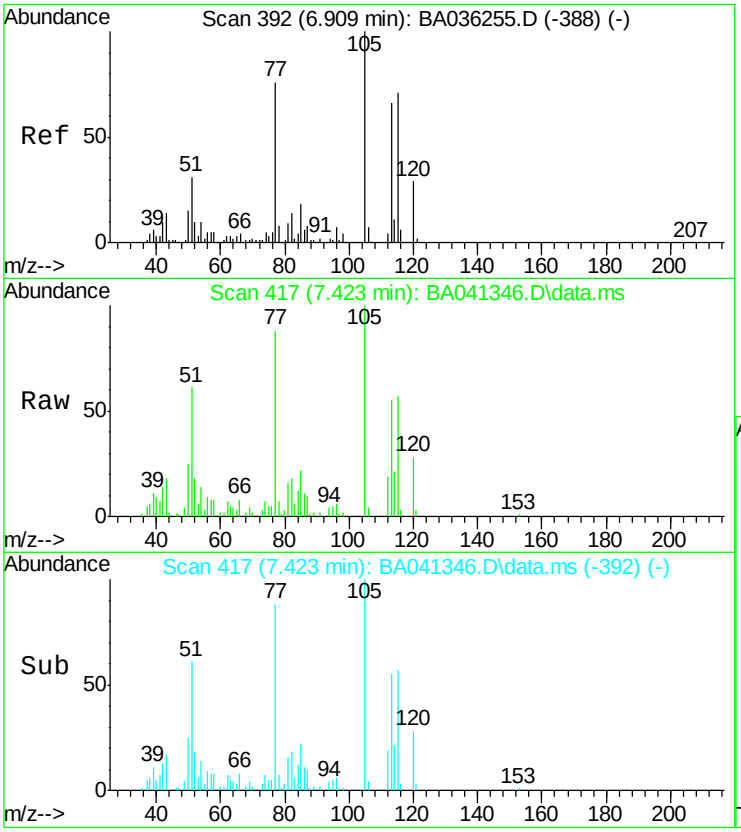
(69) Anthracene

15.925min (+0.016) 0.18ng/ul m

response 10395

Ion	Exp%	Act%
178.00	100	100
179.00	14.90	17.15
176.00	17.90	22.56#
0.00	0.00	0.00

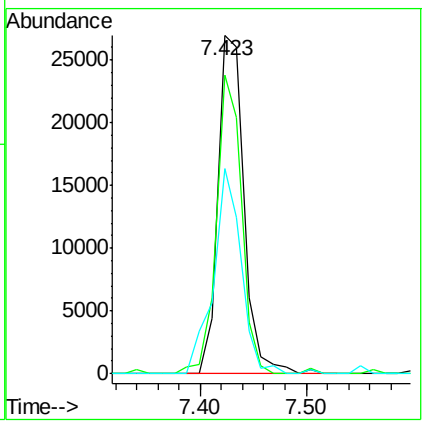
245

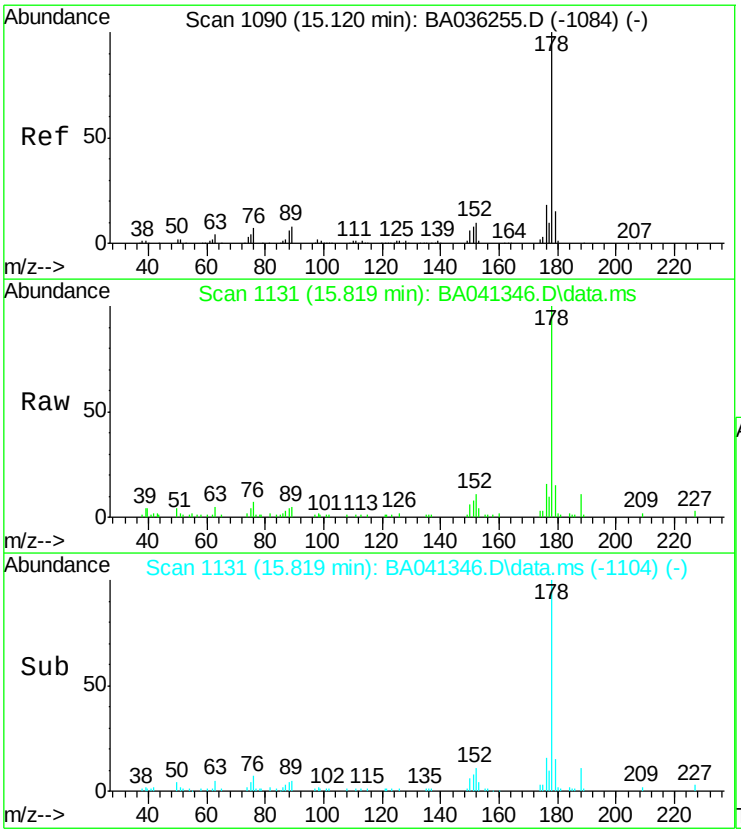


#12
Acetophenone
Concen: 2.44 ng/ul
RT: 7.423 min Scan# 417
Delta R.T. 0.000 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:105 Resp: 46753

Ion	Ratio	Lower	Upper
105	100		
77	88.4	69.4	104.2
51	60.5	42.1	63.1

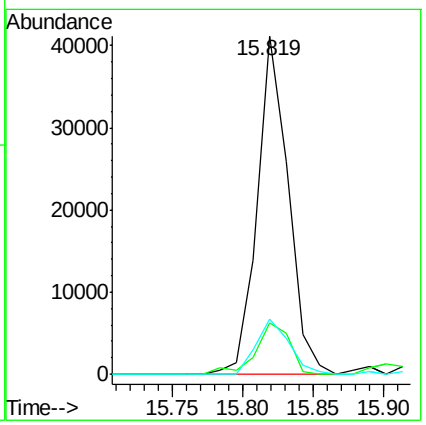


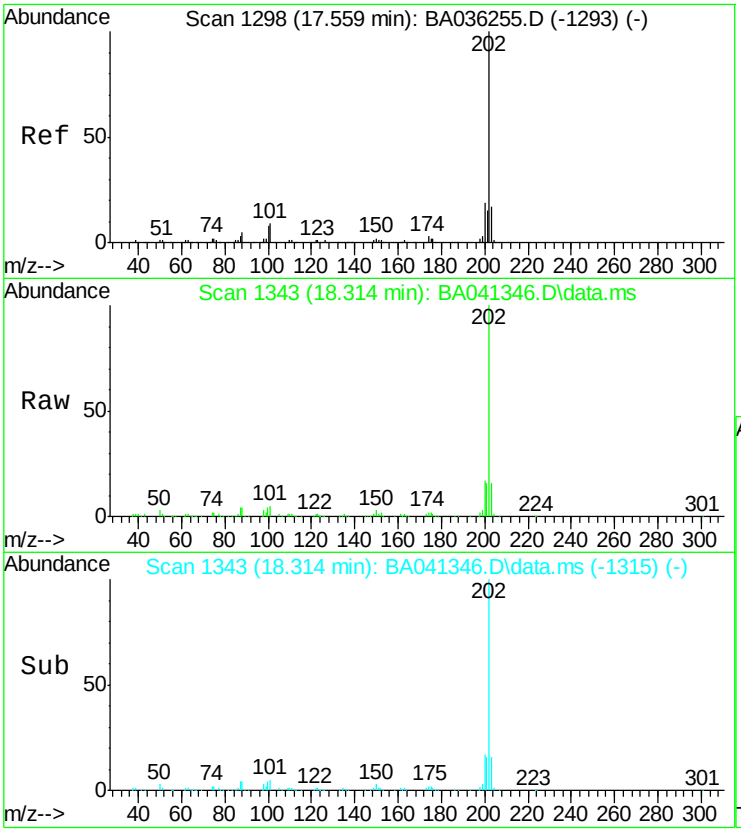


#67
Phenanthrene
Concen: 1.12 ng/ul
RT: 15.819 min Scan# 1131
Delta R.T. 0.016 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:178 Resp: 62659

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.0	18.0
176	16.2	14.8	22.2

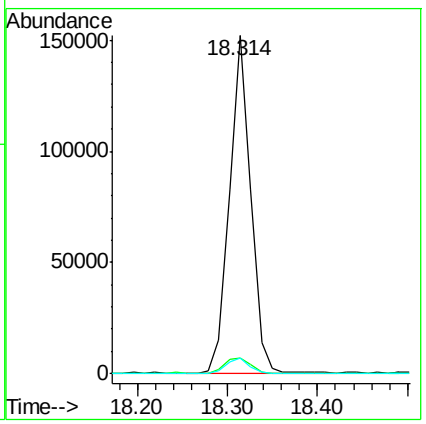


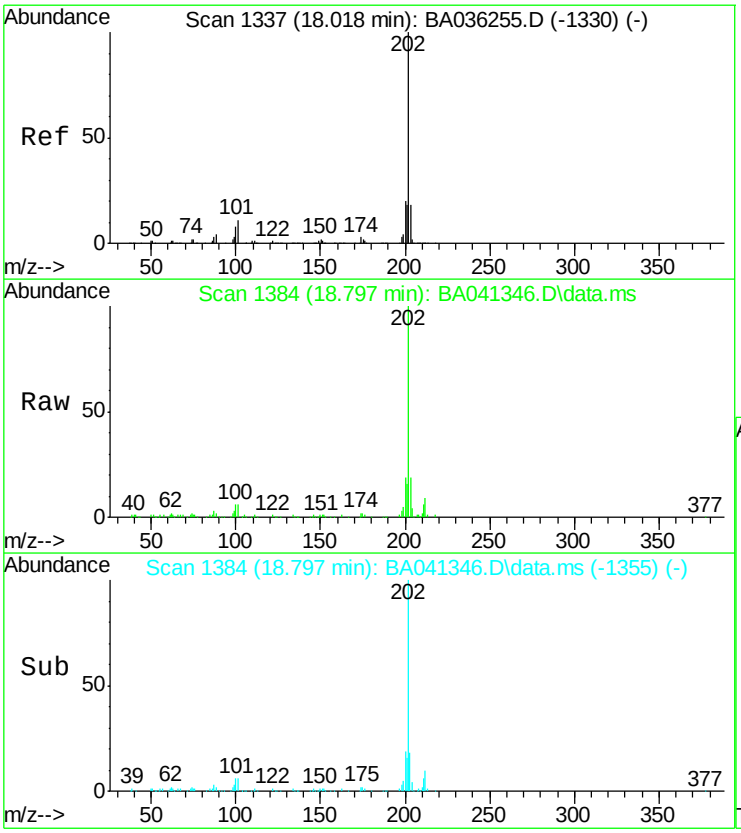


#72
Fluoranthene
Concen: 3.78 ng/ul
RT: 18.314 min Scan# 1343
Delta R.T. 0.029 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:202 Resp: 251103

Ion	Ratio	Lower	Upper
202	100		
101	4.7	2.6	4.0#
100	4.4	2.9	4.3#

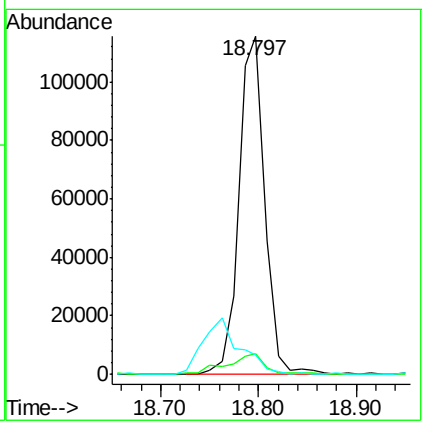


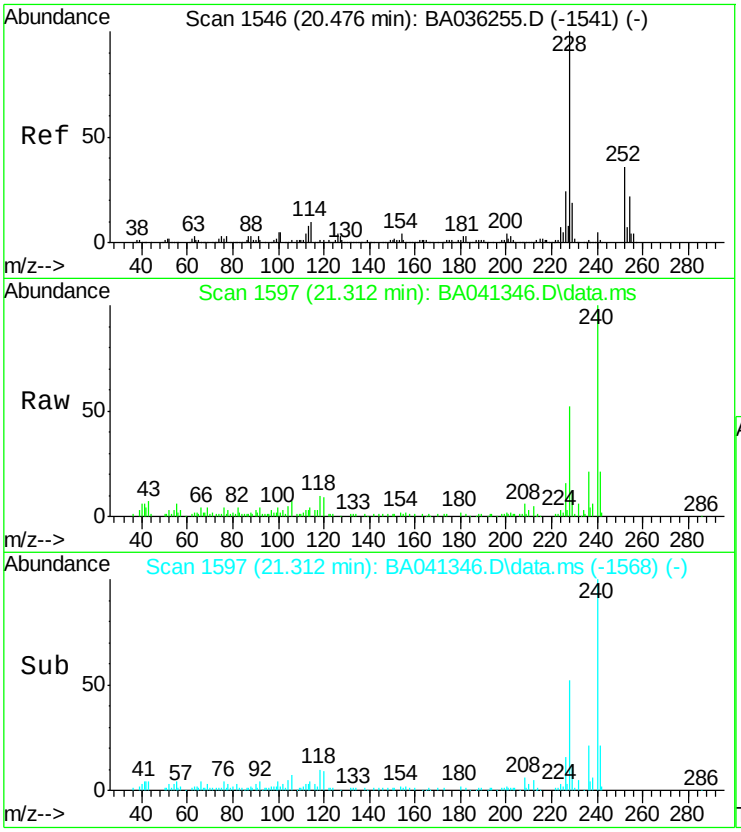


#75
Pyrene
Concen: 5.00 ng/ul
RT: 18.797 min Scan# 1384
Delta R.T. 0.040 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:202 Resp: 218817

Ion	Ratio	Lower	Upper
202	100		
101	6.0	3.5	5.3#
100	5.6	3.4	5.0#

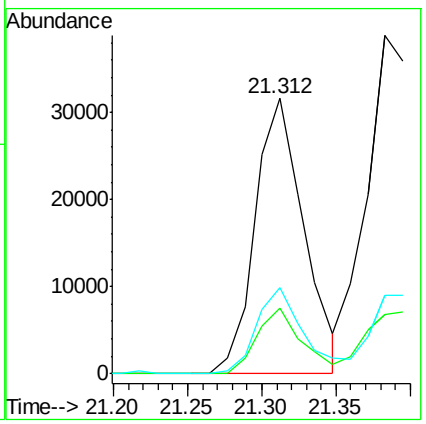


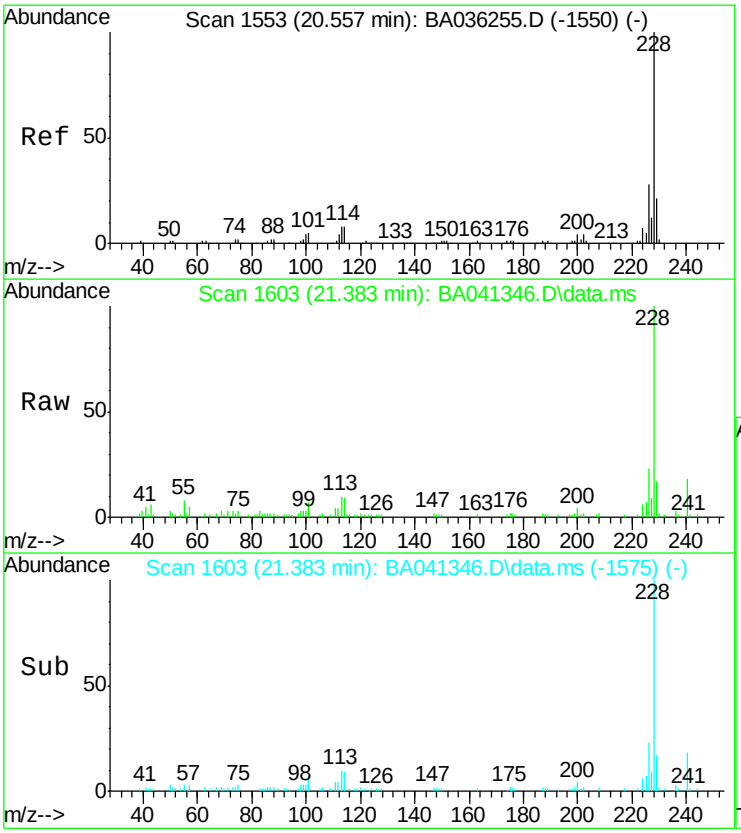


#78
Benzo(a)anthracene
Concen: 1.72 ng/ul m
RT: 21.312 min Scan# 1597
Delta R.T. 0.047 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:228 Resp: 72196

Ion	Ratio	Lower	Upper
228	100		
229	23.8	15.9	23.9
226	31.2	20.2	30.2#

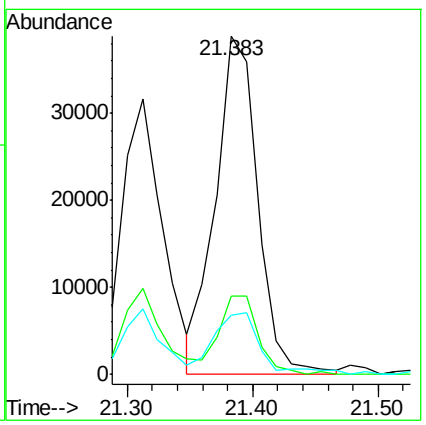


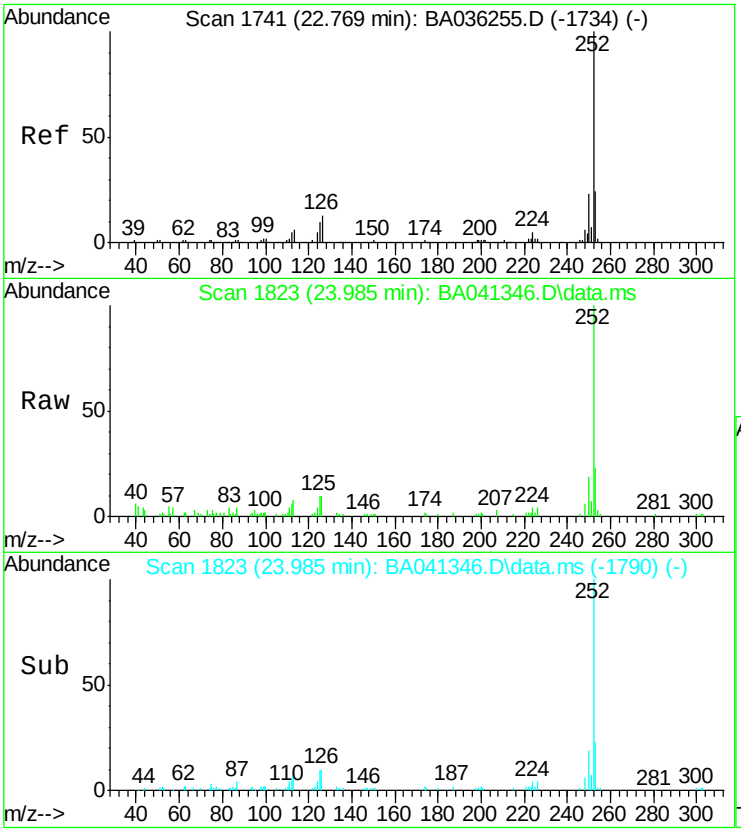


#80
Chrysene
Concen: 2.56 ng/ul
RT: 21.383 min Scan# 1603
Delta R.T. 0.036 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:228 Resp: 90948

Ion	Ratio	Lower	Upper
228	100		
226	23.1	20.6	31.0
229	17.3	14.4	21.6

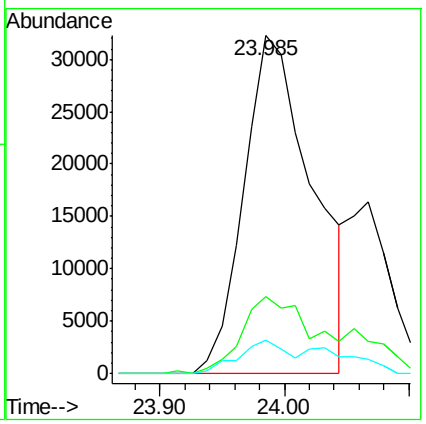


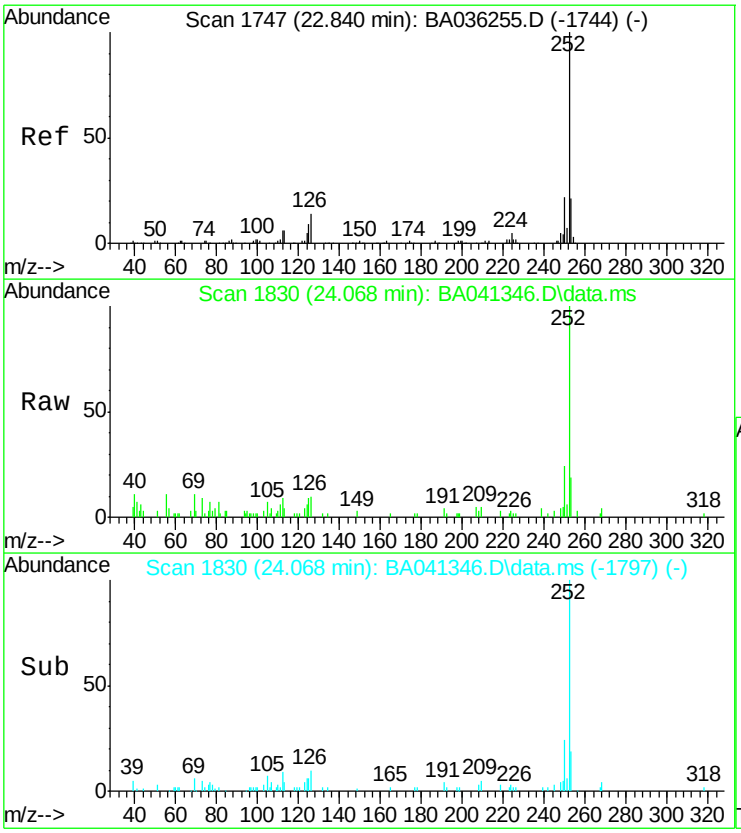


#83
Benzo(b)fluoranthene
Concen: 2.91 ng/ul m
RT: 23.985 min Scan# 1823
Delta R.T. 0.086 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:252 Resp: 124110

Ion	Ratio	Lower	Upper
252	100		
253	22.9	16.2	24.2
125	9.7	4.1	6.1#

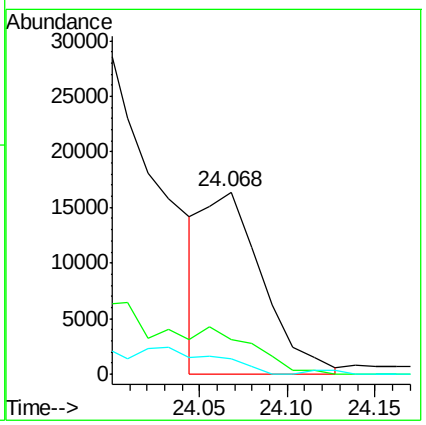


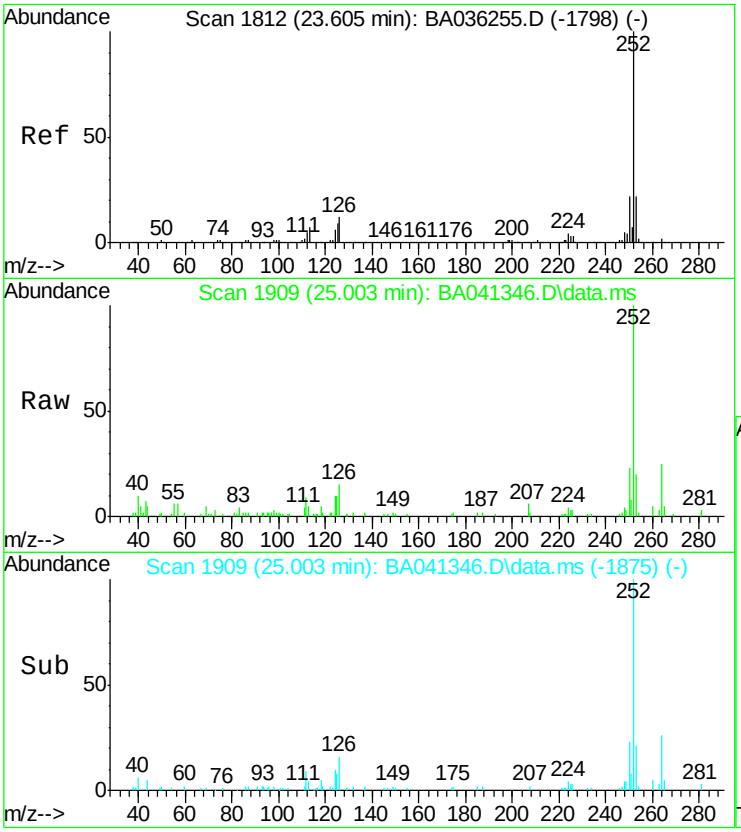


#84
Benzo(k)fluoranthene
Concen: 1.05 ng/ul m
RT: 24.068 min Scan# 1830
Delta R.T. 0.085 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:252 Resp: 38152

Ion	Ratio	Lower	Upper
252	100		
253	19.1	18.2	27.4
125	8.5	3.5	5.3#

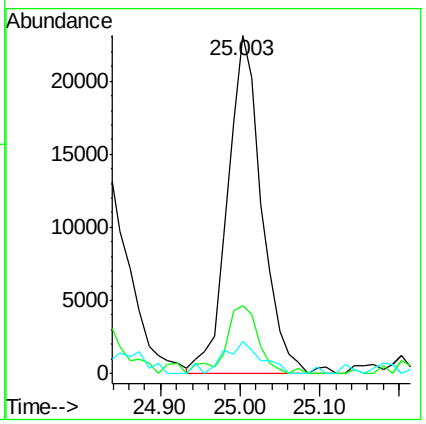


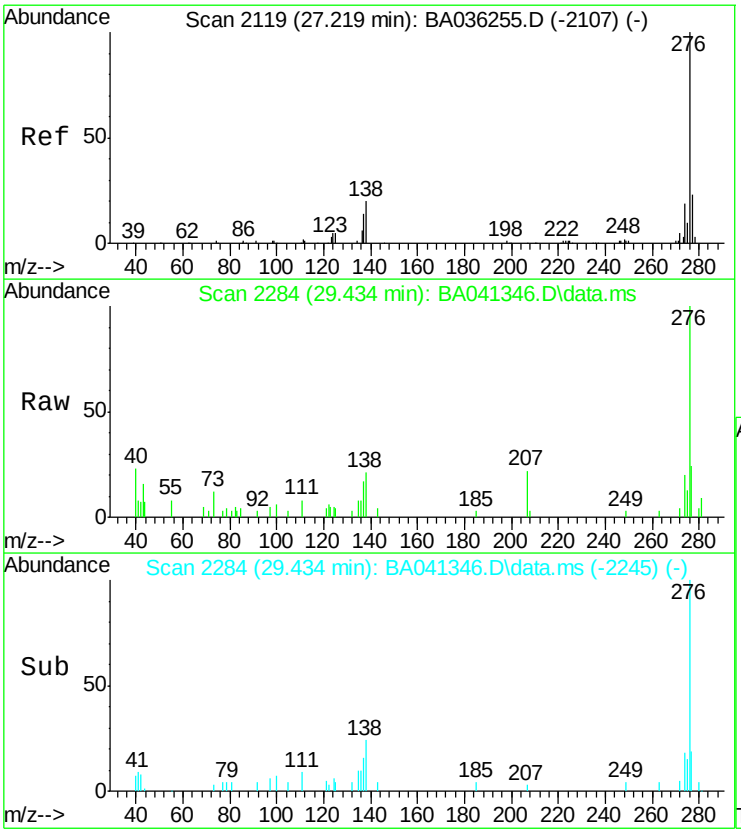


#86
Benzo(a)pyrene
Concen: 1.90 ng/ul
RT: 25.003 min Scan# 1909
Delta R.T. 0.105 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:252 Resp: 69949

Ion	Ratio	Lower	Upper
252	100		
253	20.3	15.1	22.7
125	9.6	3.4	5.2#

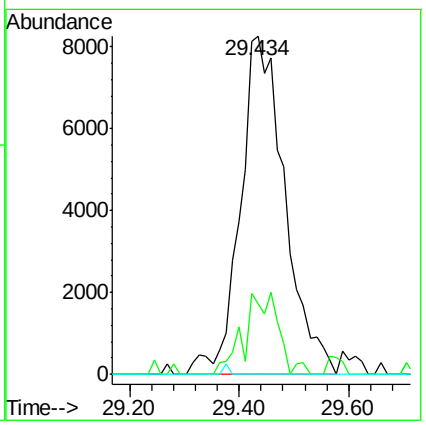


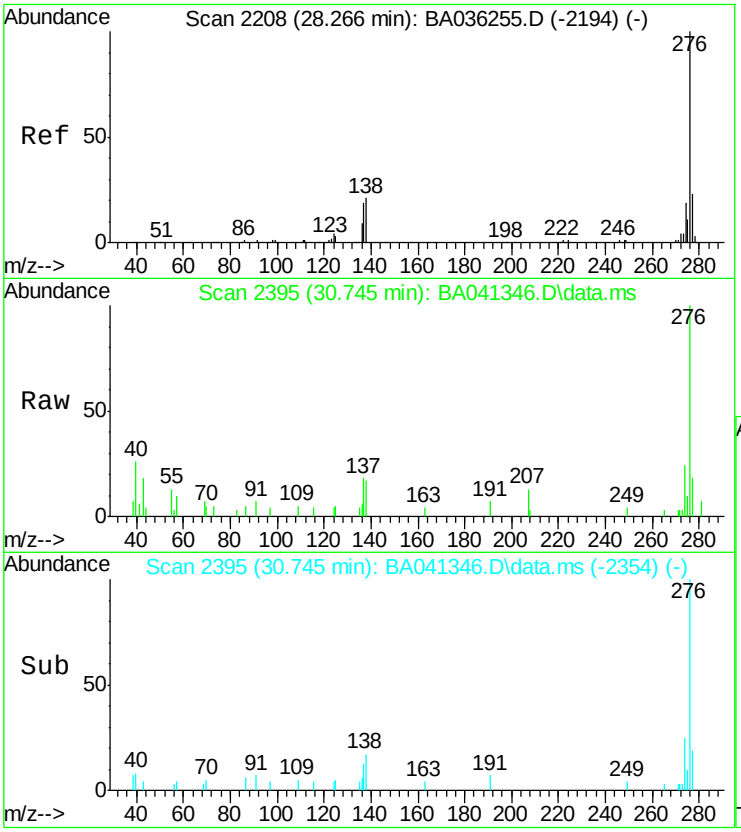


#87
Indeno(1,2,3-cd)pyrene
Concen: 1.36 ng/ul
RT: 29.434 min Scan# 2284
Delta R.T. 0.157 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:276 Resp: 46969

Ion	Ratio	Lower	Upper
276	100		
138	20.9	8.2	12.2#
227	0.0	0.0	0.0

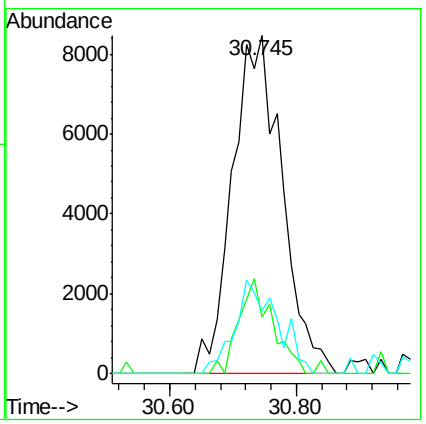




#89
Benzo(g,h,i)perylene
Concen: 1.32 ng/ul
RT: 30.745 min Scan# 2395
Delta R.T. 0.182 min
Lab File: BA041346.D
Acq: 21 Oct 2008 7:12

Tgt Ion:276 Resp: 45988

Ion	Ratio	Lower	Upper
276	100		
138	16.6	10.6	16.0#
277	18.5	20.2	30.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 07:52:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.693	152	238465	20.00	ng/ul	0.01
16) Naphthalene-d8	9.094	136	812986	20.00	ng/ul	0.01
33) Acenaphthene-d10	12.692	164	573359	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.772	188	1097093	20.00	ng/ul	0.02
73) Chrysene-d12	21.336	240	789178	20.00	ng/ul	0.05
81) Perylene-d12	25.203	264	653776	20.00	ng/ul	0.13
System Monitoring Compounds						
3) Phenol-d5	6.069	99	552608	38.28	ng/ul	0.01
5) Bis-(2-Chloroethyl)eth...	6.176	67	396821	40.54	ng/ul	0.02
7) 2-Chlorophenol-d4	6.305	132	488589	39.82	ng/ul	0.01
11) 4-Methylphenol-d8	7.399	113	293786	29.99	ng/ul	0.01
17) Nitrobenzene-d5	7.705	128	294479	40.92	ng/ul	0.01
20) 2-Nitrophenol-d4	8.329	143	333653	37.66	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.800	165	555574	33.88	ng/ul	0.01
27) 4-Chloroaniline-d4	9.236	131	468386	28.89	ng/ul	0.01
41) Dimethylphthalate-d6	12.138	166	1618649	42.39	ng/ul	0.02
44) Acenaphthylene-d8	12.362	160	1792590	38.61	ng/ul	0.02
49) 4-Nitrophenol-d4	12.998	143	317562	40.81	ng/ul	0.03
55) Fluorene-d10	13.773	176	1173602	38.22	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.937	200	312798	27.55	ng/ul	0.02
68) Anthracene-d10	15.902	188	1665784	31.72	ng/ul	0.04
74) Pyrene-d10	18.762	212	1789561	51.89	ng/ul	0.04
85) Benzo(a)pyrene-d12	24.944	264	1034486	29.06	ng/ul	0.13
Target Compounds						Qvalue
12) Acetophenone	7.423	105	46753	2.44	ng/ul	95
67) Phenanthrene	15.819	178	62659	1.12	ng/ul	97
72) Fluoranthene	18.314	202	251103	3.78	ng/ul#	97
75) Pyrene	18.797	202	218817	5.00	ng/ul#	96
78) Benzo(a)anthracene	21.312	228	72196m	1.72	ng/ul	
80) Chrysene	21.383	228	90948	2.56	ng/ul	96
83) Benzo(b)fluoranthene	23.985	252	124110m	2.91	ng/ul	
84) Benzo(k)fluoranthene	24.068	252	38152m	1.05	ng/ul	
86) Benzo(a)pyrene	25.003	252	69949	1.90	ng/ul#	95
87) Indeno(1,2,3-cd)pyrene	29.434	276	46969	1.36	ng/ul#	71
89) Benzo(g,h,i)perylene	30.745	276	45988	1.32	ng/ul#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041346.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.907	28	33	35	rBV6	4805	17535	0.34%	0.027%
2	3.002	37	41	45	rVB4	11145	29001	0.57%	0.045%
3	3.072	45	47	51	rBV2	41075	94955	1.85%	0.146%
4	3.532	82	86	89	rBV2	19294	31708	0.62%	0.049%
5	4.060	128	131	134	rBV2	6141	18584	0.36%	0.029%
6	4.154	134	139	145	rVV2	132996	299414	5.84%	0.462%
7	4.259	145	148	153	rVV3	17096	42603	0.83%	0.066%
8	5.293	234	236	241	rBV	18838	35134	0.68%	0.054%
9	5.517	252	255	259	rVB2	7956	18021	0.35%	0.028%
10	5.963	288	293	299	rBV5	13792	49413	0.96%	0.076%
11	6.069	299	302	307	rVV	1358228	2325267	45.32%	3.585%
12	6.176	307	311	318	rVB	949189	1603251	31.25%	2.472%
13	6.305	318	322	328	rBV	1308064	2217370	43.21%	3.419%
14	6.693	352	355	360	rBV	968587	1649940	32.16%	2.544%
15	7.010	380	382	388	rBV2	11739	33693	0.66%	0.052%
16	7.399	412	415	424	rVV2	1194217	2004749	39.07%	3.091%
17	7.705	438	441	444	rBV	1643567	2440447	47.56%	3.763%
18	7.905	456	458	464	rVB5	8385	20949	0.41%	0.032%
19	8.329	490	494	497	rVV	1656606	2280957	44.45%	3.517%
20	8.388	497	499	504	rVB4	11513	22462	0.44%	0.035%
21	8.565	510	514	517	rBV2	32375	64509	1.26%	0.099%
22	8.647	519	521	527	rVB3	18315	27291	0.53%	0.042%
23	8.800	531	534	537	rBV	2034541	2811460	54.79%	4.335%
24	9.094	555	559	562	rBV	1273746	1829741	35.66%	2.821%
25	9.236	568	571	582	rBV	1121117	1876312	36.57%	2.893%
26	9.637	601	605	607	rBV3	8296	18186	0.35%	0.028%
27	10.446	668	674	676	rBV2	41281	64658	1.26%	0.100%
28	11.328	744	749	752	rBV	22399	37287	0.73%	0.057%
29	12.138	814	818	821	rBV	2689961	4025692	78.46%	6.207%
30	12.362	833	837	840	rBV	2567581	3921086	76.42%	6.046%
31	12.692	861	865	868	rBV	1333089	2382183	46.43%	3.673%
32	12.998	886	891	899	rVV	1240219	2522966	49.17%	3.890%
33	13.116	899	901	904	rVV2	52737	85651	1.67%	0.132%
34	13.186	904	907	910	rVB3	34170	63625	1.24%	0.098%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.433	927	928	931	rVB	14058	16500	0.32%	0.025%
36	13.644	944	946	948	rBV2	14722	17123	0.33%	0.026%
37	13.773	953	957	960	rVB	2740022	4280987	83.43%	6.601%
38	13.937	967	971	974	rBV	1258629	1940666	37.82%	2.992%
39	14.030	977	979	984	rVB2	29758	55248	1.08%	0.085%
40	14.182	989	992	995	rBV3	9940	23991	0.47%	0.037%
41	14.383	1005	1009	1011	rBV4	16839	30462	0.59%	0.047%
42	14.442	1011	1014	1016	rVB3	11440	22430	0.44%	0.035%
43	14.713	1035	1037	1039	rBV	34192	58588	1.14%	0.090%
44	14.971	1057	1059	1063	rBV3	6950	16864	0.33%	0.026%
45	15.124	1070	1072	1075	rBV4	8060	18979	0.37%	0.029%
46	15.313	1085	1088	1092	rVB2	59188	100730	1.96%	0.155%
47	15.513	1101	1105	1110	rVB4	14714	35798	0.70%	0.055%
48	15.655	1114	1117	1120	rBV	36058	50484	0.98%	0.078%
49	15.725	1120	1123	1124	rBV2	16788	31246	0.61%	0.048%
50	15.772	1124	1127	1130	rBV	1461435	2552125	49.74%	3.935%
51	15.902	1134	1138	1141	rBV	2379608	4292721	83.66%	6.619%
52	16.101	1152	1155	1158	rVV	90972	131262	2.56%	0.202%
53	16.288	1169	1171	1174	rVB2	8641	19288	0.38%	0.030%
54	16.546	1191	1193	1198	rBV2	20699	42765	0.83%	0.066%
55	16.759	1209	1211	1214	rVB3	11121	20588	0.40%	0.032%
56	16.841	1214	1218	1220	rBV2	12222	27963	0.54%	0.043%
57	16.889	1220	1222	1225	rVB2	15112	28851	0.56%	0.044%
58	17.041	1233	1235	1240	rBV3	158674	297468	5.80%	0.459%
59	17.112	1240	1241	1247	rVB4	14011	18504	0.36%	0.029%
60	17.266	1250	1254	1257	rBV3	15306	31118	0.61%	0.048%
61	17.407	1263	1266	1267	rBV3	12652	20202	0.39%	0.031%
62	17.454	1267	1270	1271	rBV2	12780	23332	0.45%	0.036%
63	17.631	1282	1285	1291	rVB3	13532	36884	0.72%	0.057%
64	17.996	1312	1316	1320	rVB5	11287	29235	0.57%	0.045%
65	18.243	1330	1337	1340	rVV5	52137	196032	3.82%	0.302%
66	18.314	1340	1343	1347	rVB	334525	561804	10.95%	0.866%
67	18.597	1364	1367	1372	rVB2	29378	61452	1.20%	0.095%
68	18.762	1376	1381	1388	rBV	2460782	5131148	100.00%	7.912%
69	18.879	1390	1391	1392	rVV	15408	16997	0.33%	0.026%
70	19.045	1403	1405	1408	rVV4	19957	42063	0.82%	0.065%
71	19.269	1422	1424	1427	rVB2	16488	34084	0.66%	0.053%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	19.494	1437	1443	1446	rVB	38117	106405	2.07%	0.164%
73	19.635	1453	1455	1458	rVB2	24831	42214	0.82%	0.065%
74	19.705	1458	1461	1463	rBV3	19460	46948	0.91%	0.072%
75	19.895	1475	1477	1480	rVB3	11787	21454	0.42%	0.033%
76	20.165	1499	1500	1502	rBV2	11584	19164	0.37%	0.030%
77	20.366	1515	1517	1519	rBV3	16375	26947	0.53%	0.042%
78	20.520	1528	1530	1531	rBV2	9682	16431	0.32%	0.025%
79	20.709	1543	1546	1549	rBV5	6108	16219	0.32%	0.025%
80	20.791	1549	1553	1556	rBV4	28463	62289	1.21%	0.096%
81	20.862	1556	1559	1560	rBV2	21087	32907	0.64%	0.051%
82	20.992	1567	1570	1576	rVB4	31530	77525	1.51%	0.120%
83	21.146	1580	1583	1593	rBV	450917	1434288	27.95%	2.212%
84	21.336	1594	1599	1602	rBV	1021449	2145342	41.81%	3.308%
85	21.560	1616	1618	1623	rVB5	20160	36490	0.71%	0.056%
86	21.643	1623	1625	1628	rBV4	21516	35714	0.70%	0.055%
87	22.661	1709	1711	1714	rVB4	30647	50352	0.98%	0.078%
88	23.761	1800	1804	1809	rVB8	22091	73345	1.43%	0.113%
89	23.985	1819	1823	1828	rBV	79241	302485	5.90%	0.466%
90	24.589	1871	1874	1881	rVB6	24761	74460	1.45%	0.115%
91	24.826	1890	1894	1897	rBV3	51525	154094	3.00%	0.238%
92	24.944	1897	1904	1918	rVB2	758001	2918634	56.88%	4.500%
93	25.203	1919	1926	1931	rBV	481335	1634789	31.86%	2.521%
94	25.725	1968	1970	1972	rBV3	8915	17058	0.33%	0.026%
95	27.238	2096	2098	2099	rBV2	13386	22624	0.44%	0.035%
96	27.403	2107	2112	2113	rBV3	40184	101154	1.97%	0.156%
97	29.423	2280	2283	2284	rBV3	18700	35448	0.69%	0.055%
98	30.722	2391	2393	2394	rBV2	12887	19075	0.37%	0.029%
99	32.114	2509	2511	2516	rBV3	8366	29481	0.57%	0.045%
100	32.824	2569	2571	2576	rBV5	6685	19607	0.38%	0.030%

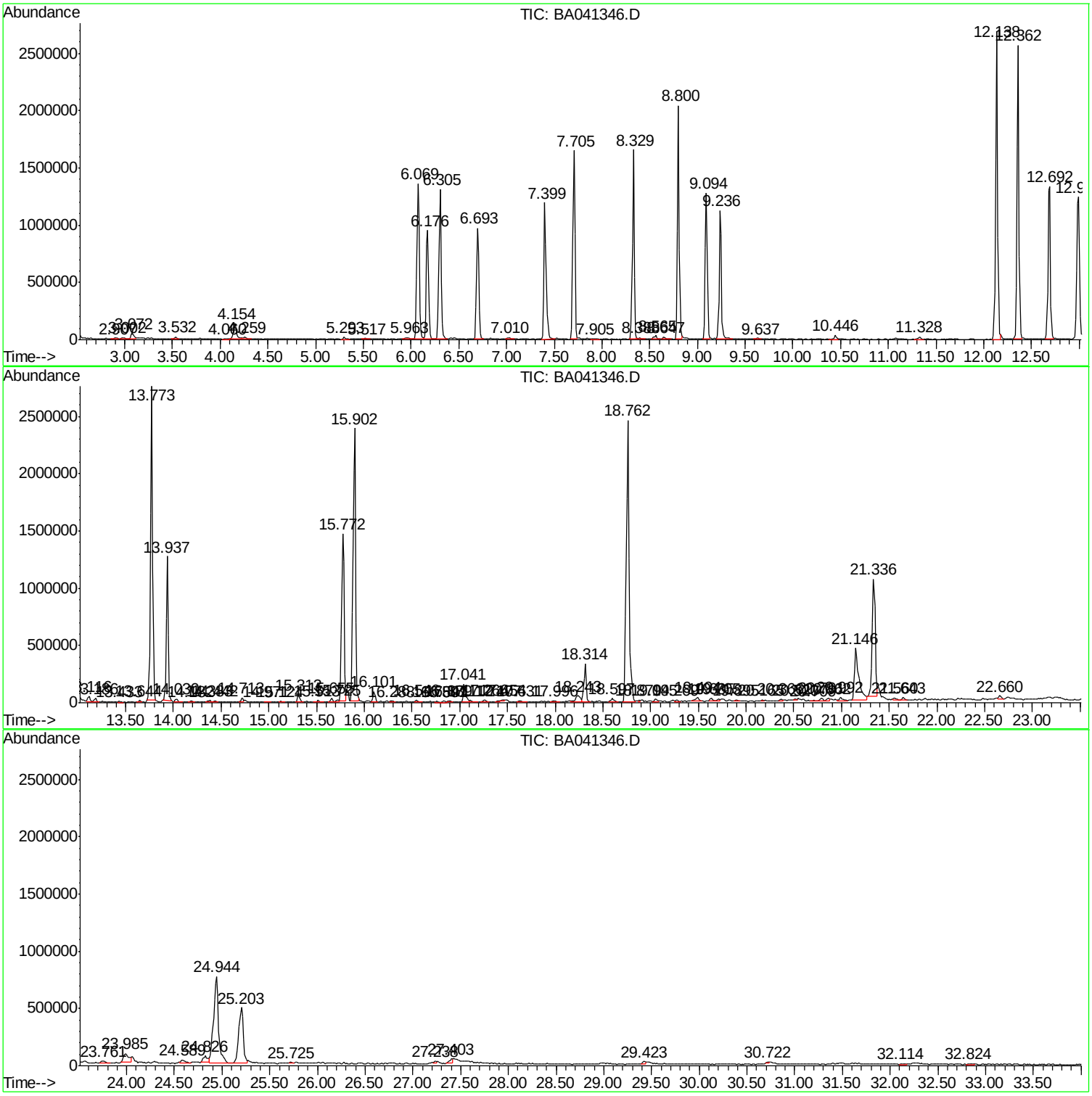
Sum of corrected areas: 64855025

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

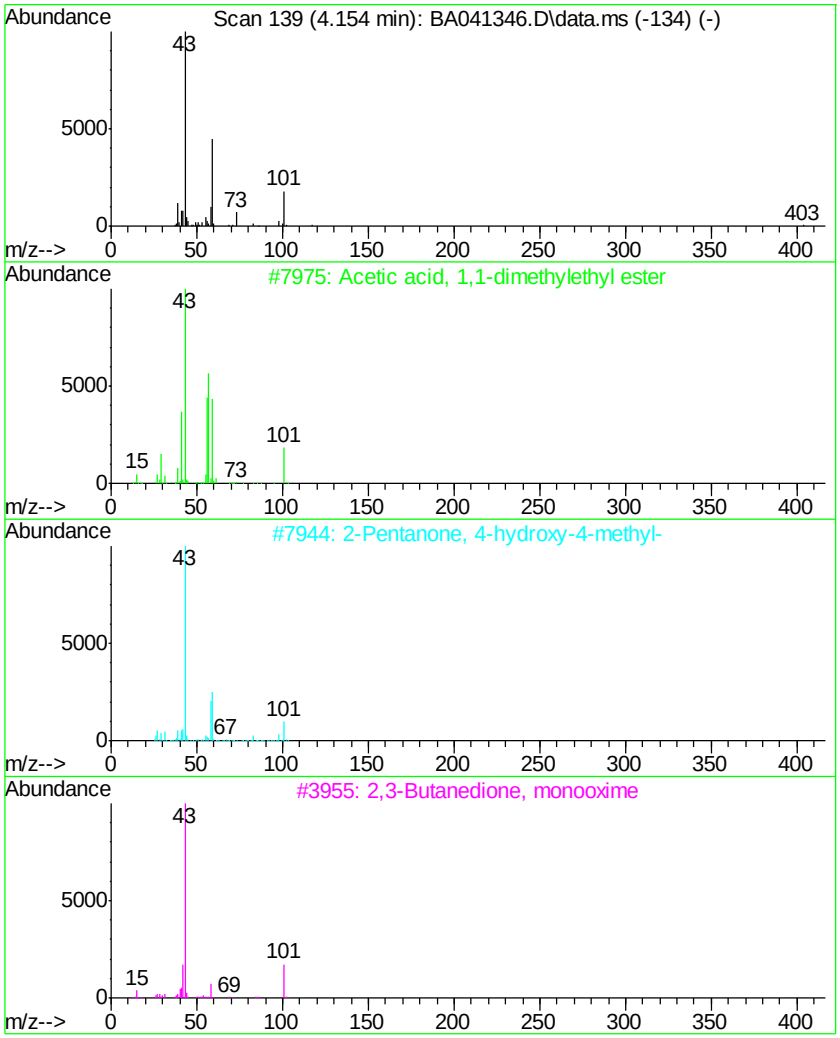
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

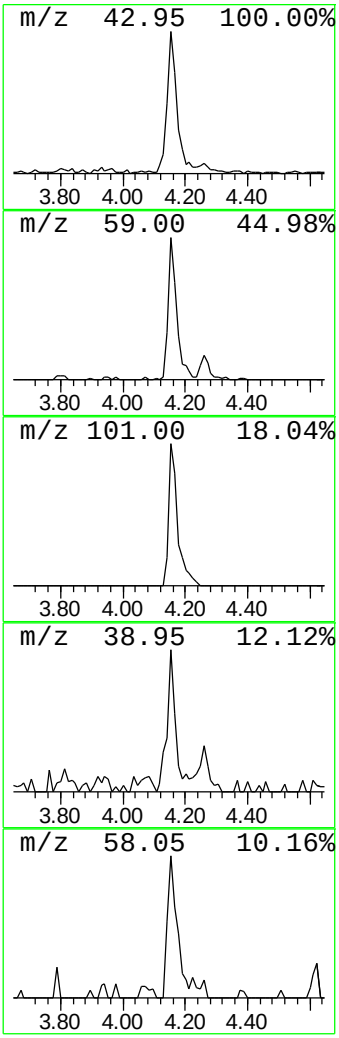
****

Peak Number 1 unknown4.15 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.150	3.63 ng/ul	299414	1,4-Dichlorobenzene-d4	6.693

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	38
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	32
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27
4	1,3-Dioxolane-4-methanol, 2,2-di...	132	C6H12O3	000100-79-8	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On    : 21 Oct 2008   7:12
Operator  : HNP
Sample    : Z4923-10
Misc      :
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

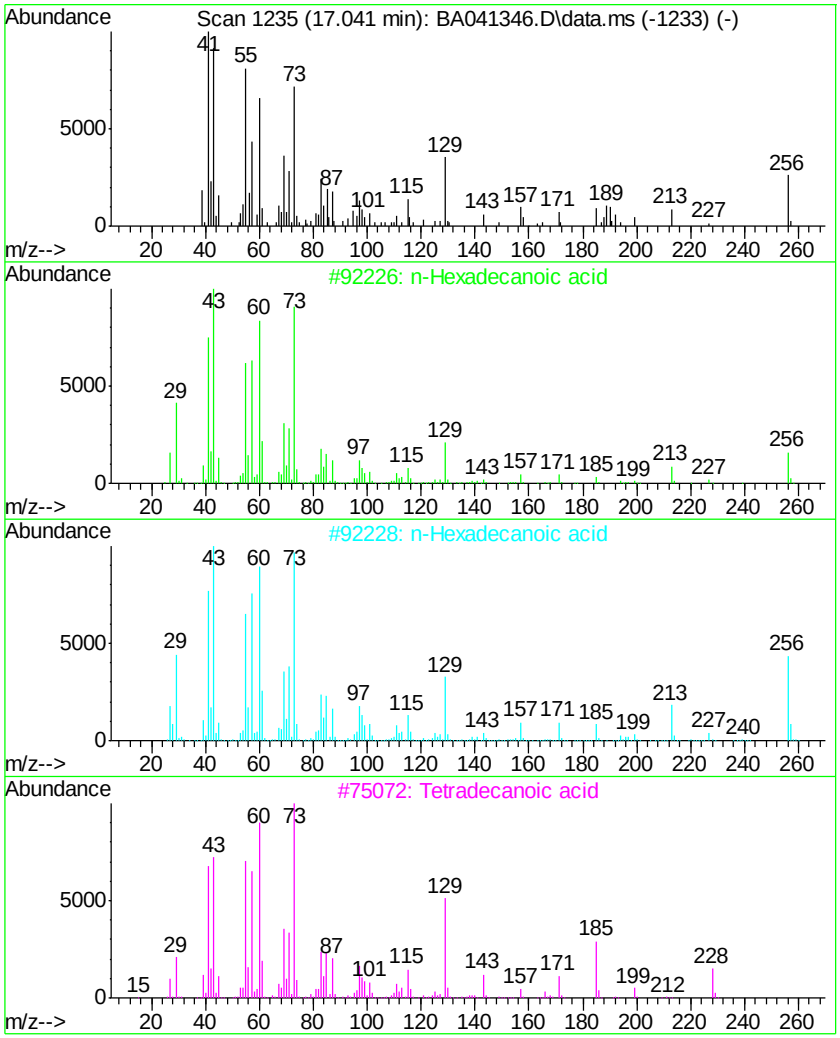
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

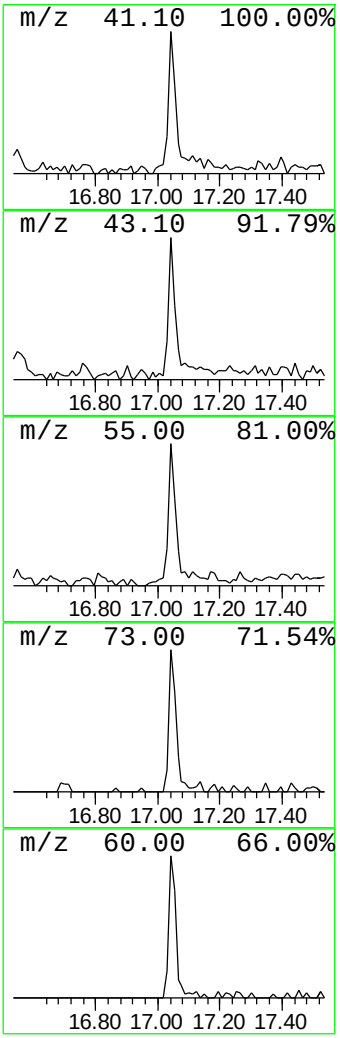
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.040	2.33 ng/ul	297468	Phenanthrene-d10	15.772

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	83
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	43
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	38
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	38





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On    : 21 Oct 2008   7:12
Operator  : HNP
Sample    : Z4923-10
Misc      :
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

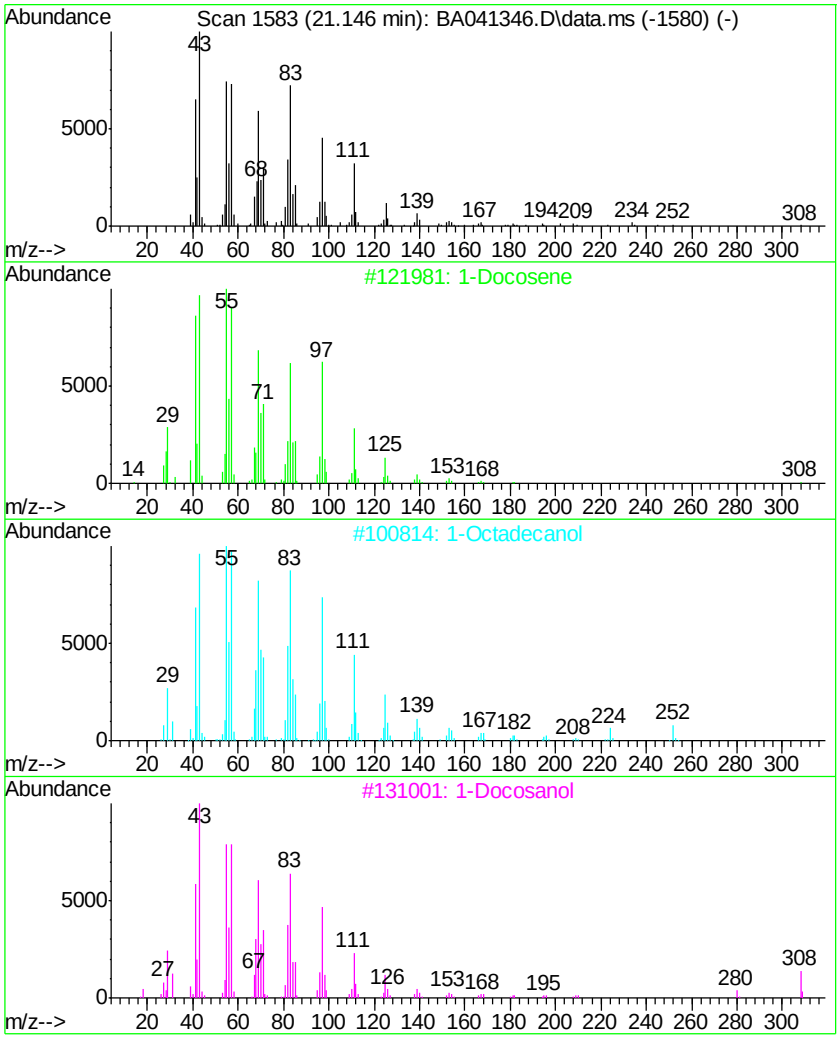
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

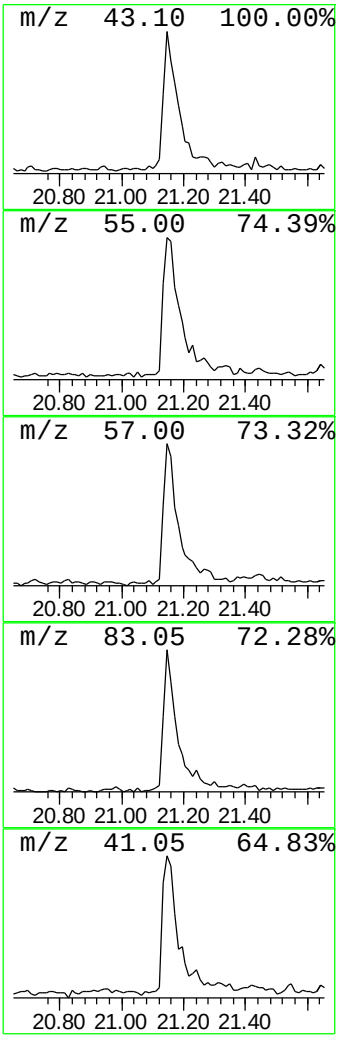
****

Peak Number 3 1-Docosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.150	13.37 ng/ul	1434290	Chrysene-d12	21.336

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	98
2	1-Octadecanol	270	C18H38O	000112-92-5	91
3	1-Docosanol	326	C22H46O	000661-19-8	91
4	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	91
5	1-Eicosanol	298	C20H42O	000629-96-9	90





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041346.D
Acq On : 21 Oct 2008 7:12
Operator : HNP
Sample : Z4923-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown4.15	4.150	3.6	ng/ul	299414	1	6.693	1649940	20.0
n-Hexadecanoic ...	17.040	2.3	ng/ul	297468	4	15.772	2552130	20.0
1-Docosene	21.150	13.4	ng/ul	1434290	5	21.336	2145340	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK1A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-11

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041344.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 18.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 6.73 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	47	J
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK1A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-11

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041344.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 18.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 6.73 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	99	J
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	240	
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	91	J
218-01-9	Chrysene	120	J
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	76	J
50-32-8	Benzo(a)pyrene	83	J
193-39-5	Indeno(1,2,3-cd)pyrene	69	J
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	58	J
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BACK1A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-11

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041344.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 18.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 6.73 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

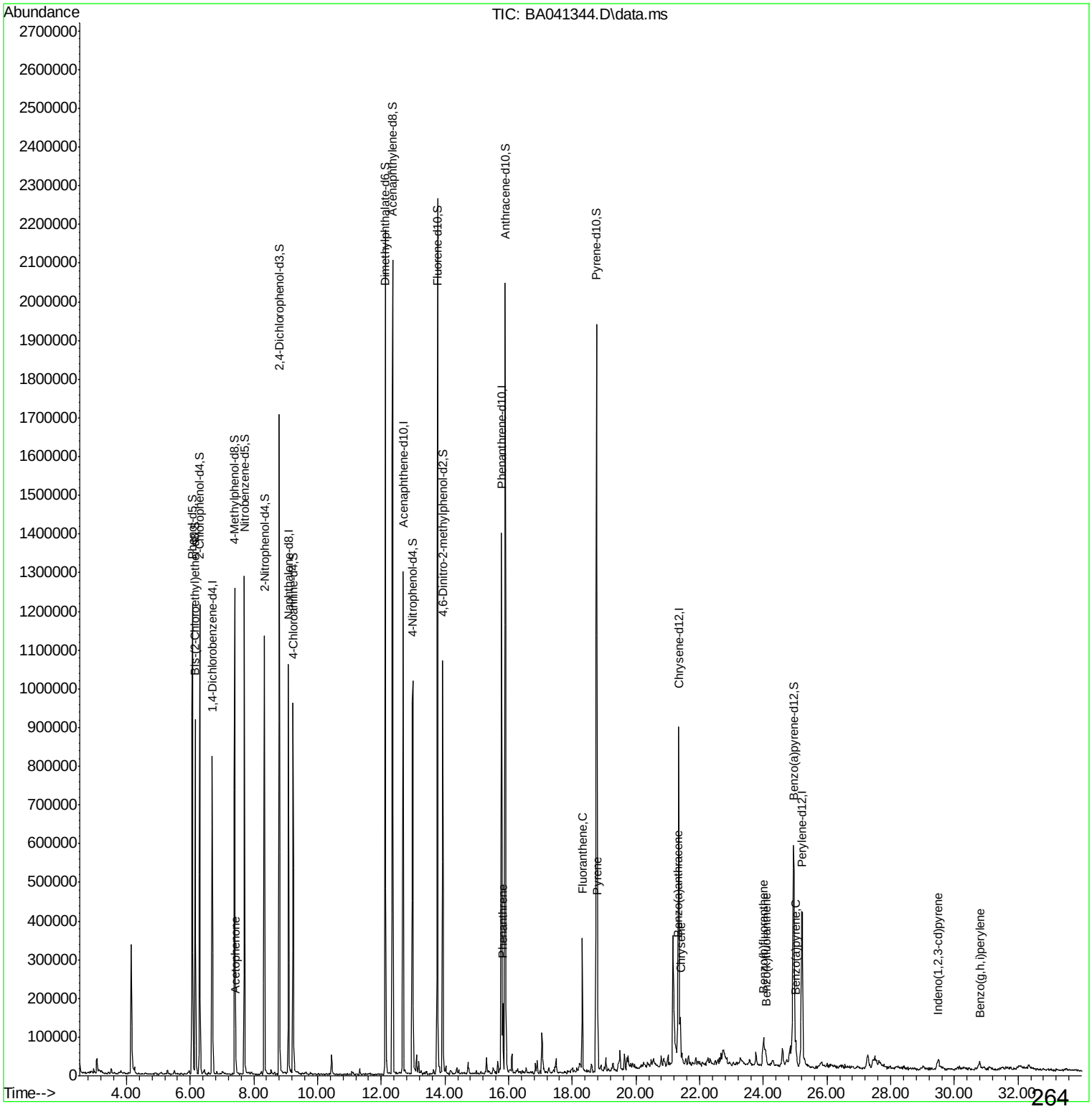
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.14	420	JN
02.	83469-43-6	6H-Cyclobuta[jk]phenanthrene	17.05	86	JN
03.	112-92-5	1-Octadecanol	21.16	440	JN
04.		unknown27.28	27.28	86	J
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

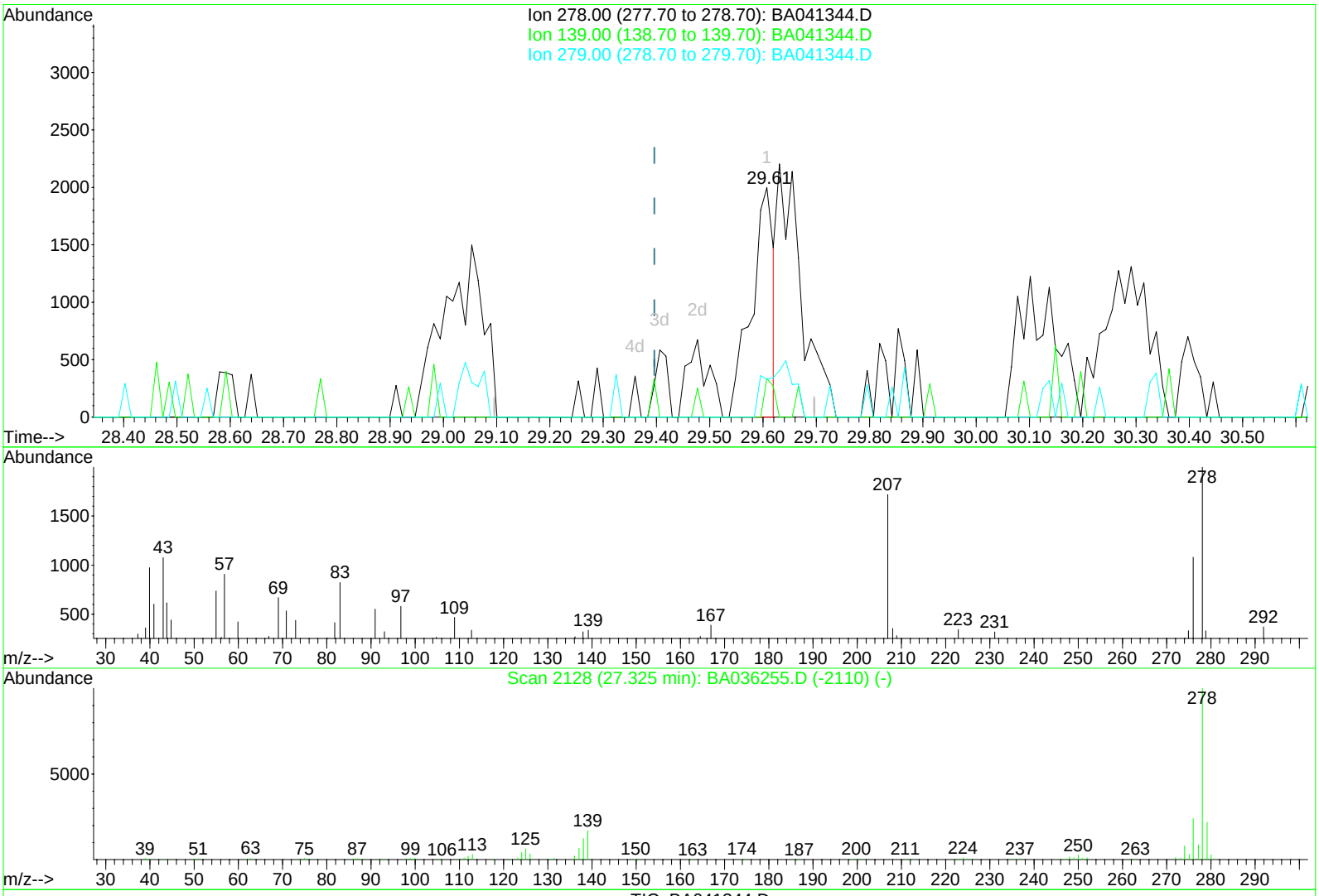
Quant Time: Oct 21 06:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041344.D

(88) Dibenzo(a,h)anthracene

29.607min (+0.211) 0.26ng/ul

response 5714

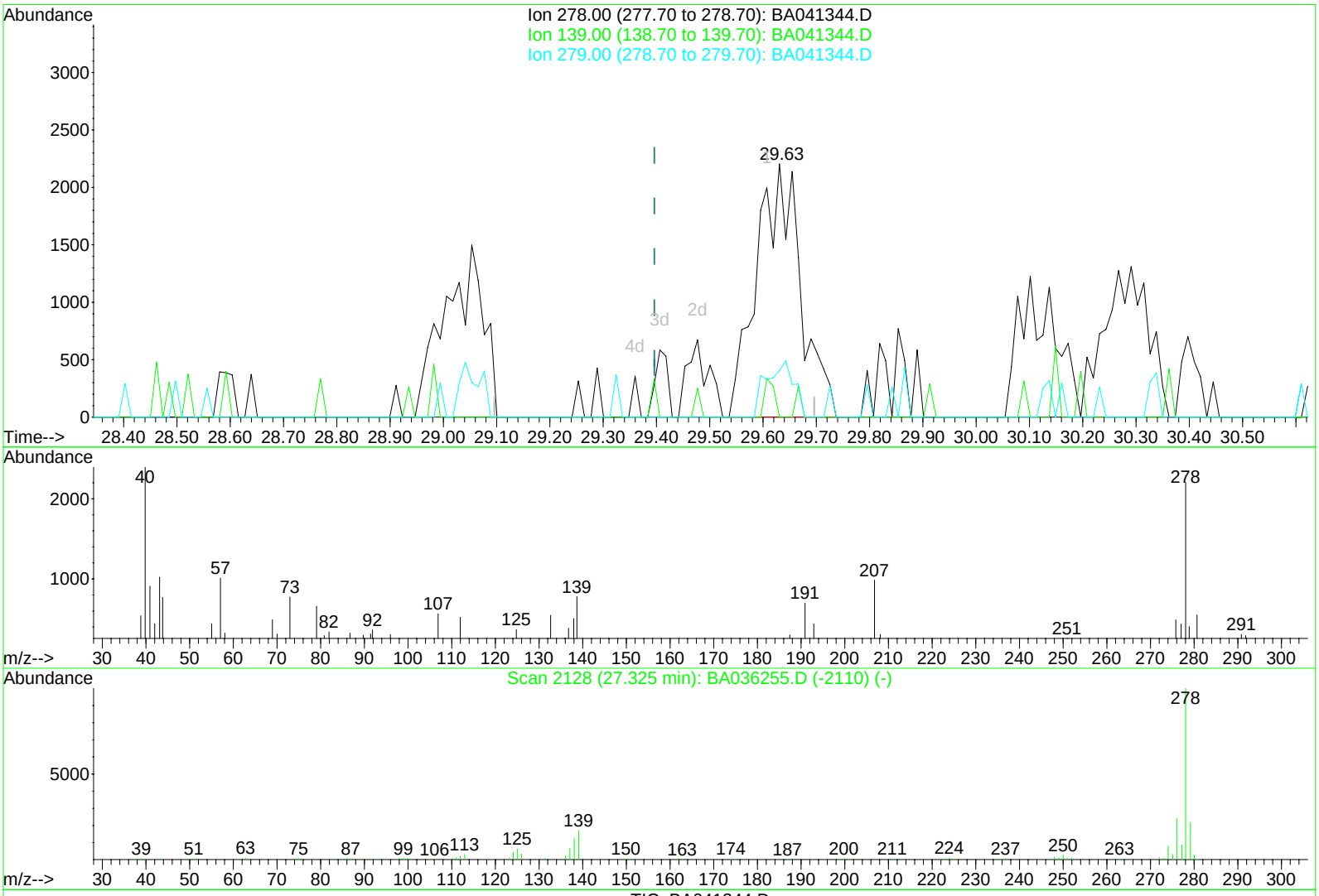
Ion	Exp%	Act%
278.00	100	100
139.00	9.60	16.88#
279.00	23.70	16.52#
0.00	0.00	0.00

265

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041344.D

(88) Dibenzo(a,h)anthracene

29.631min (+0.235) 0.57ng/ul m

response 12603

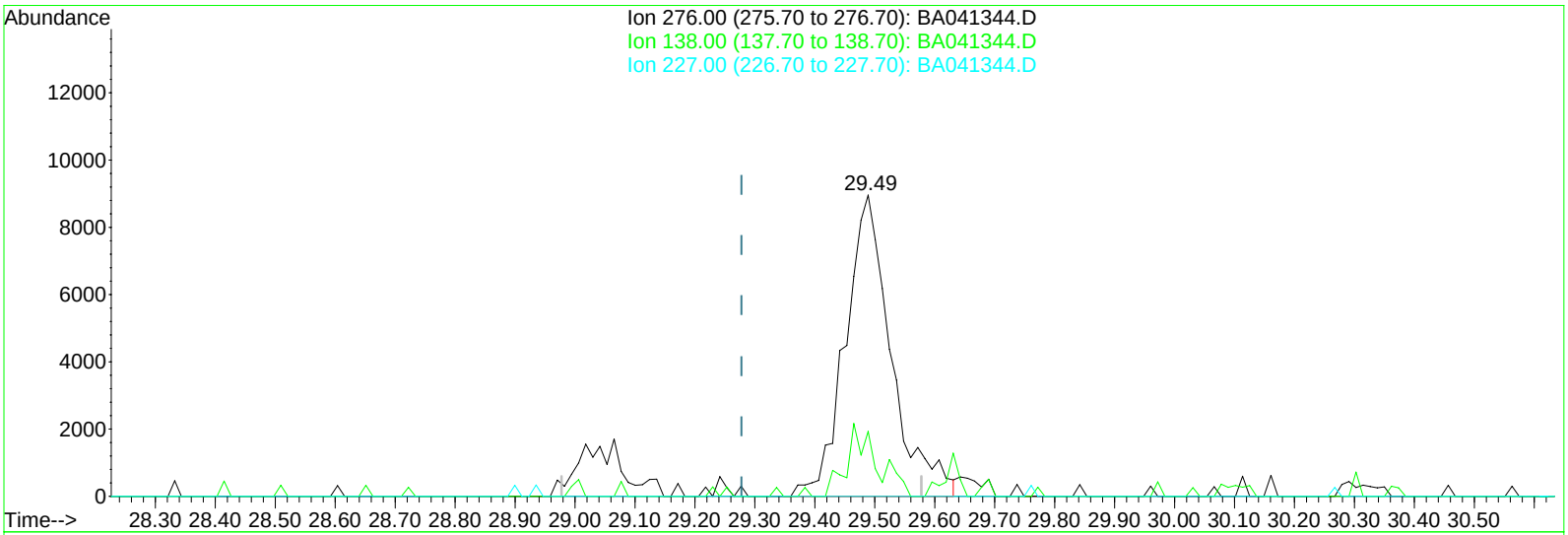
Ion	Exp%	Act%
278.00	100	100
139.00	9.60	0.00#
279.00	23.70	18.38#
0.00	0.00	0.00

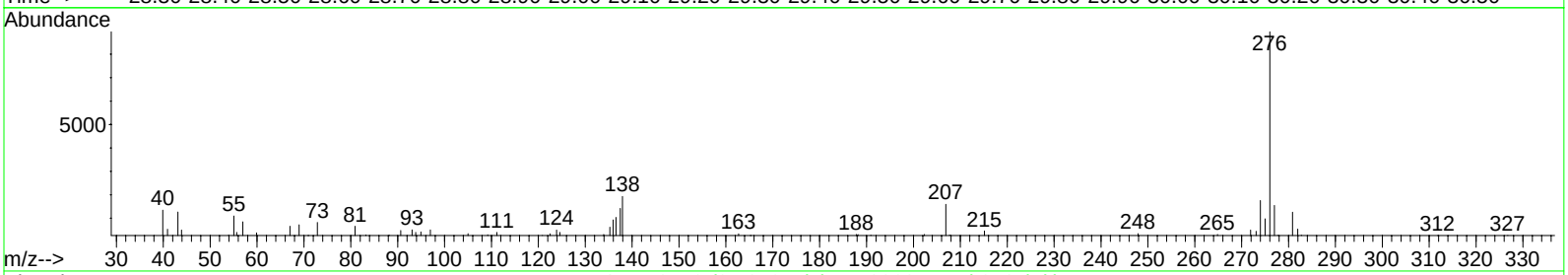
266

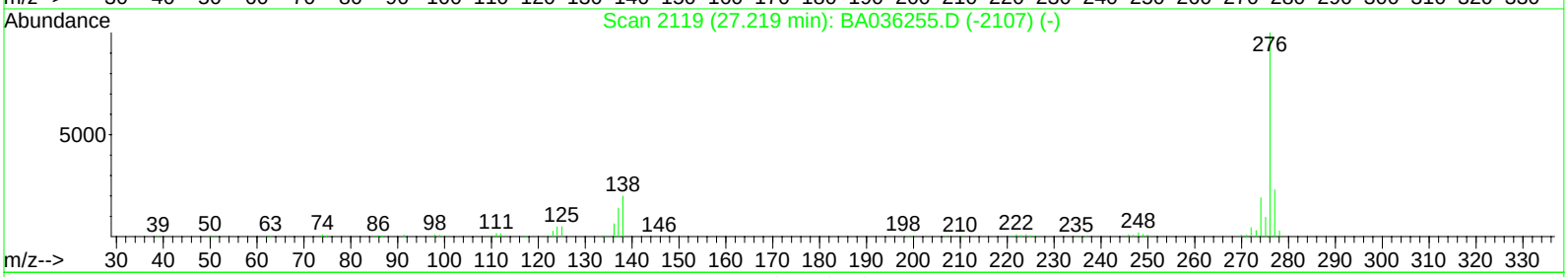
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(87) Indeno(1,2,3-cd)pyrene

29.489min (+0.211) 1.65ng/ul

response 47464

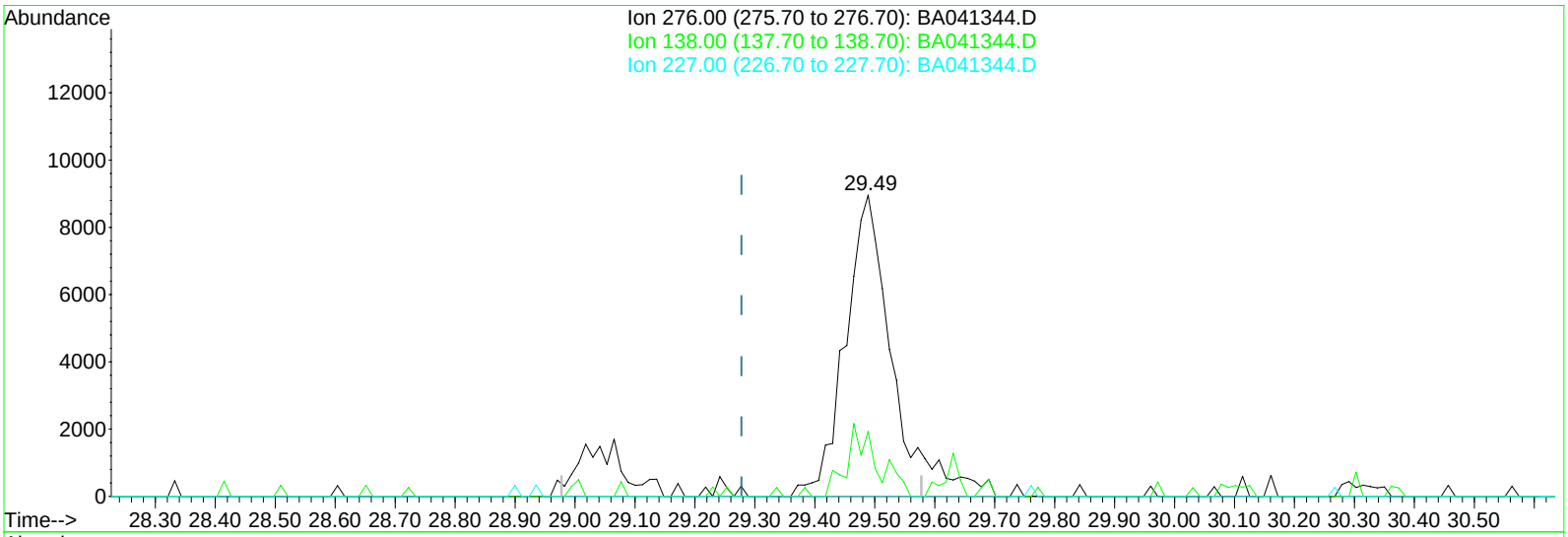
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	21.54#
227.00	0.00	0.00
0.00	0.00	0.00

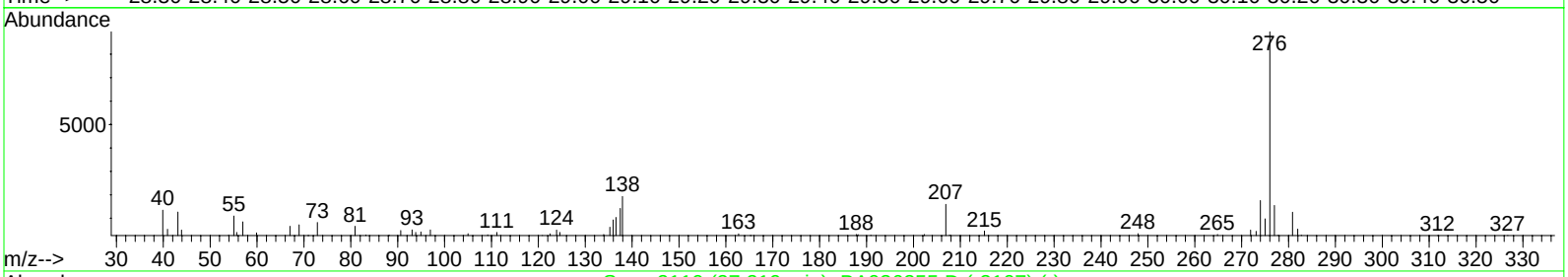
267

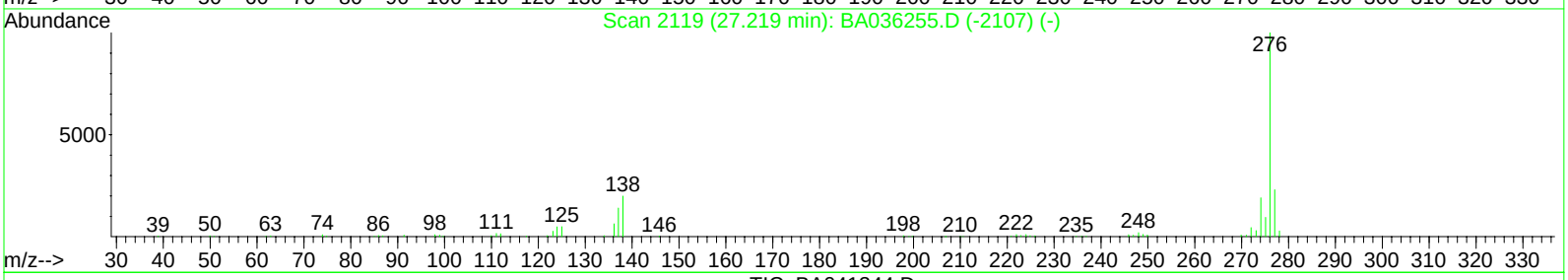
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(87) Indeno(1,2,3-cd)pyrene

29.489min (+0.211) 1.71ng/ul m

response 49182

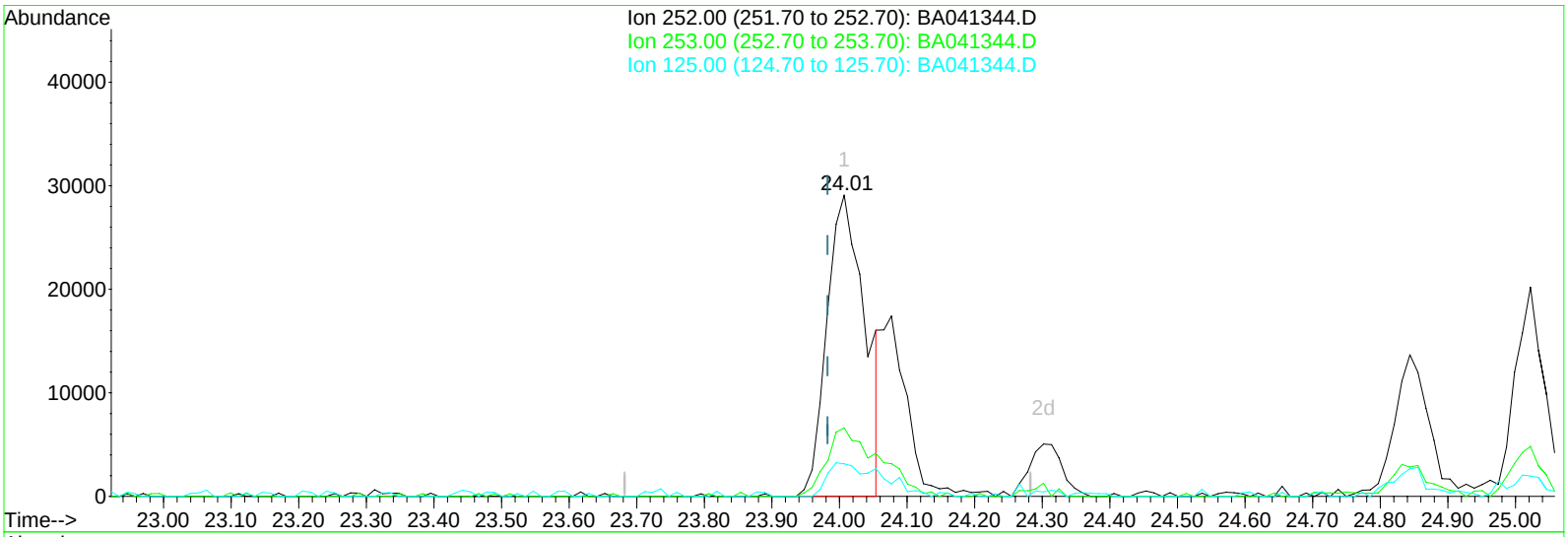
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	21.54#
227.00	0.00	0.00
0.00	0.00	0.00

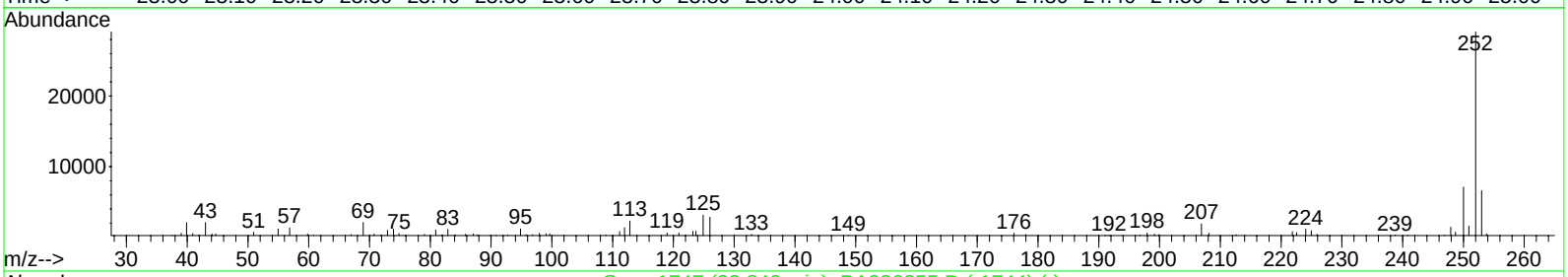
268

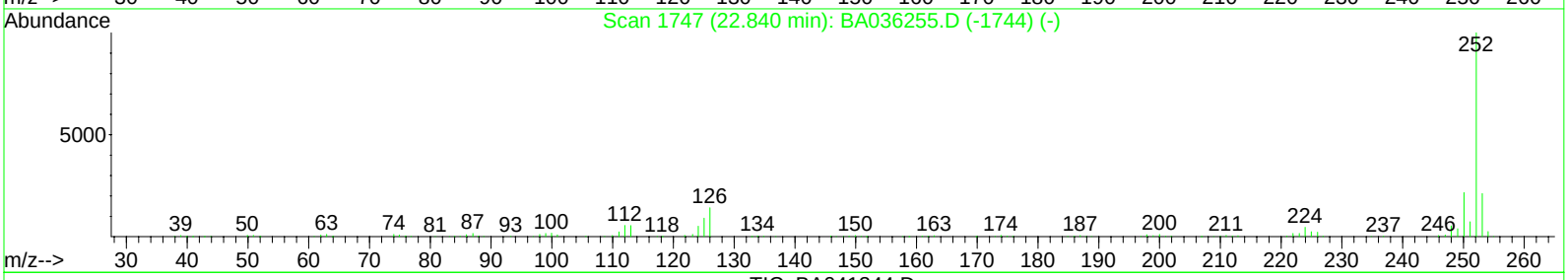
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(84) Benzo(k)fluoranthene

24.007min (+0.025) 3.77ng/ul

response 114071

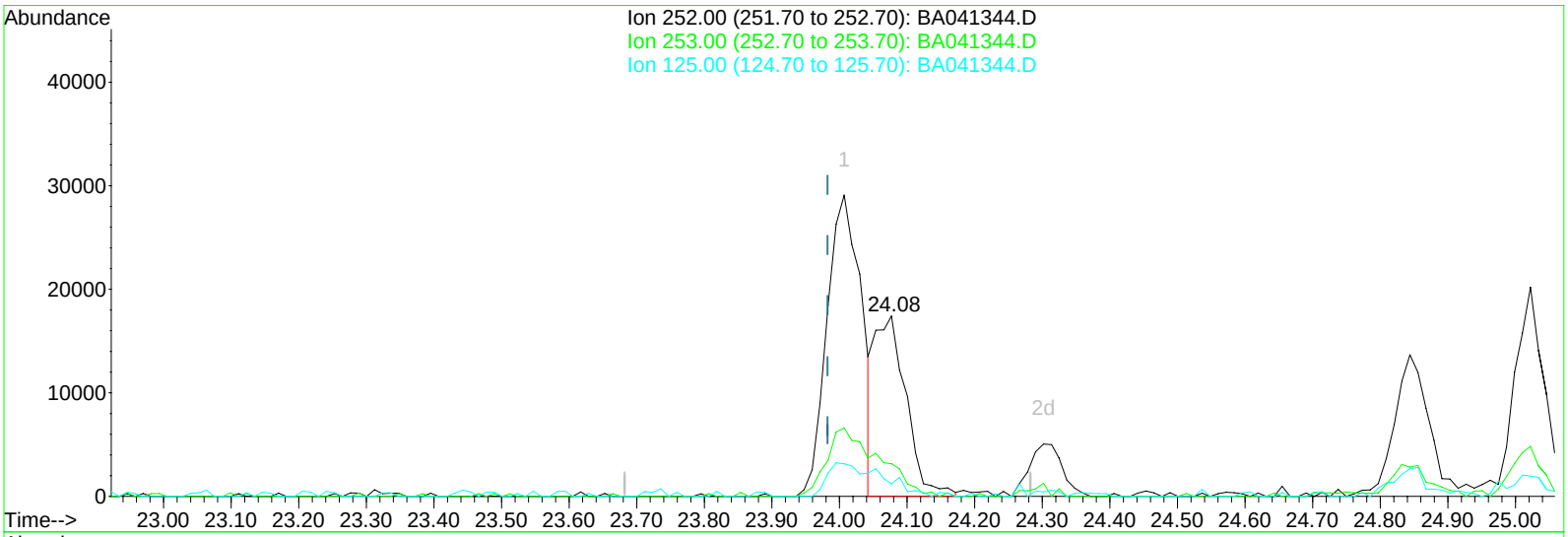
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	22.73
125.00	4.40	10.77#
0.00	0.00	0.00

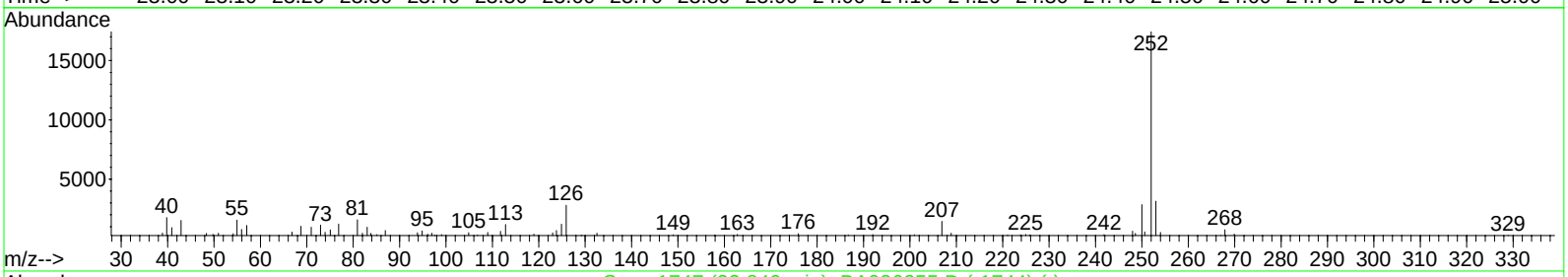
269

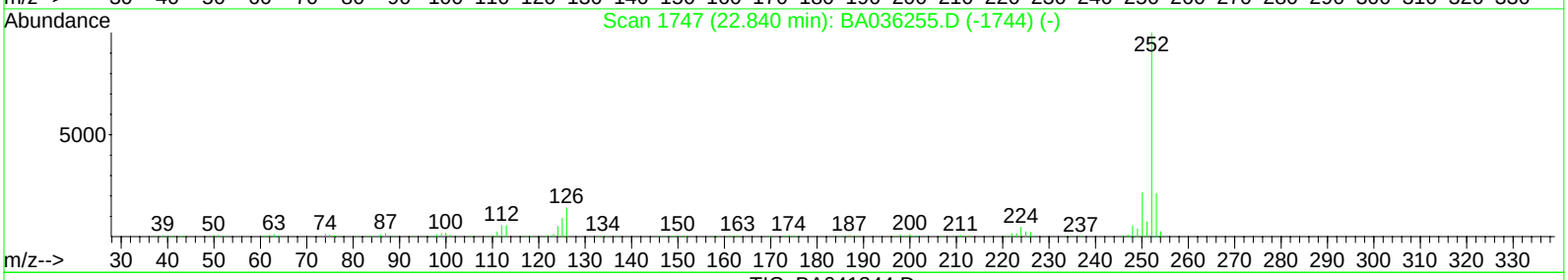
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(84) Benzo(k)fluoranthene

24.077min (+0.095) 1.87ng/ul m

response 56467

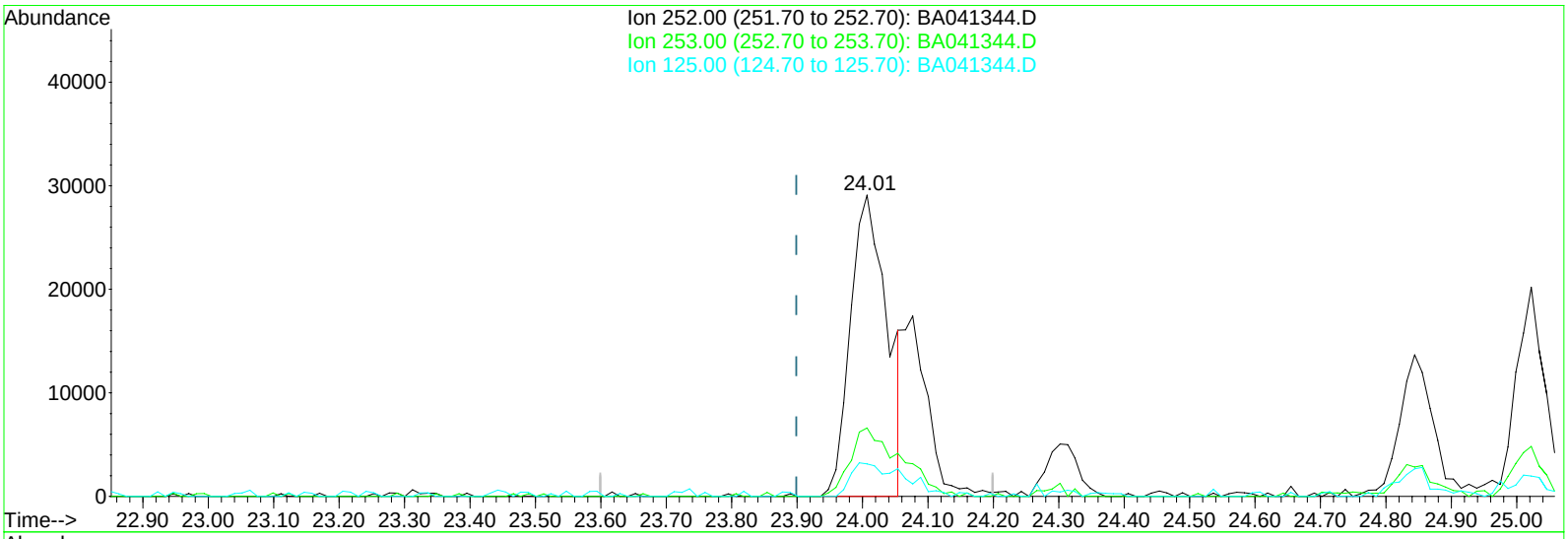
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	18.10#
125.00	4.40	6.92#
0.00	0.00	0.00

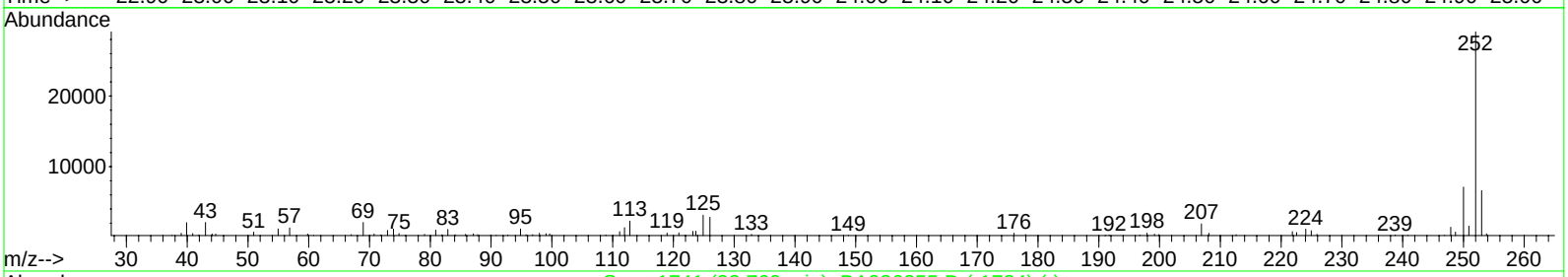
270

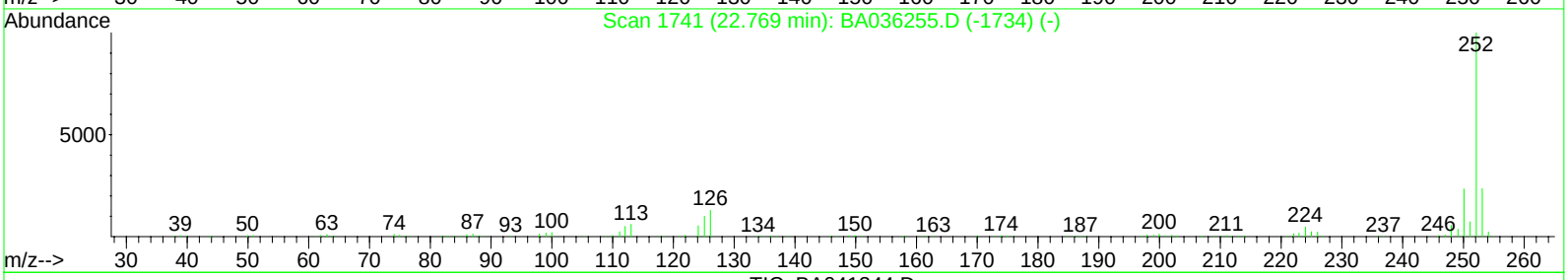
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(83) Benzo(b)fluoranthene

24.007min (+0.108) 3.21ng/ul

response 114071

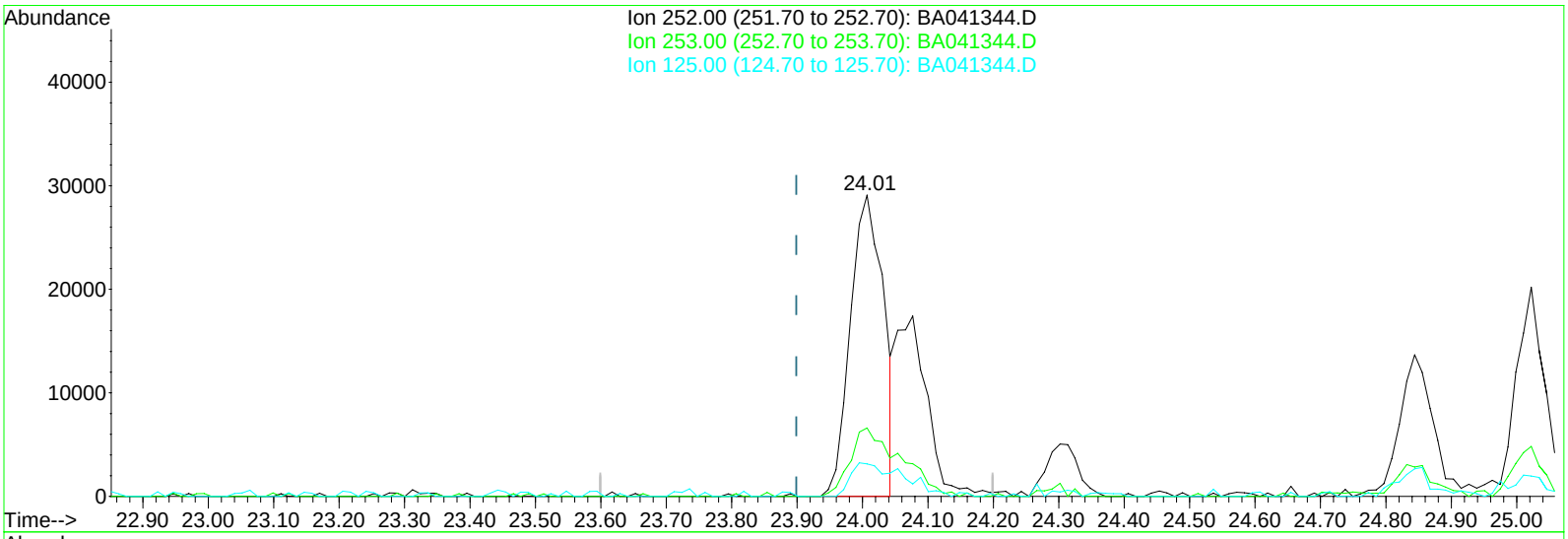
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	22.73
125.00	5.10	10.77#
0.00	0.00	0.00

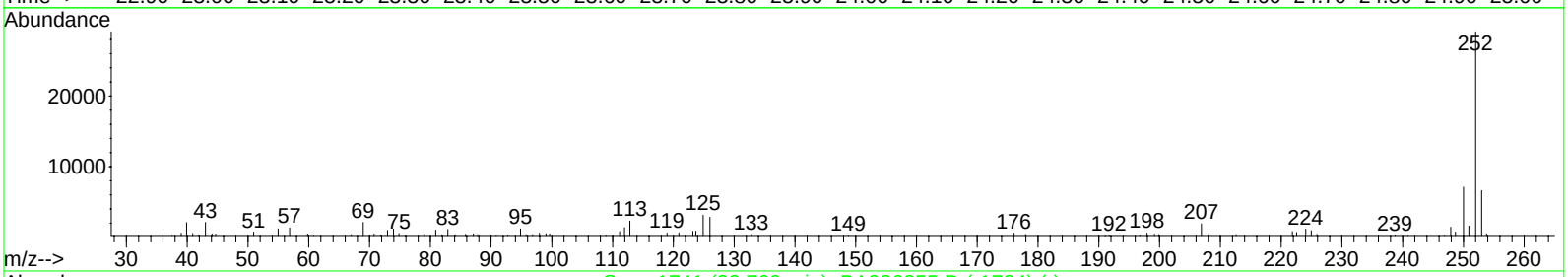
271

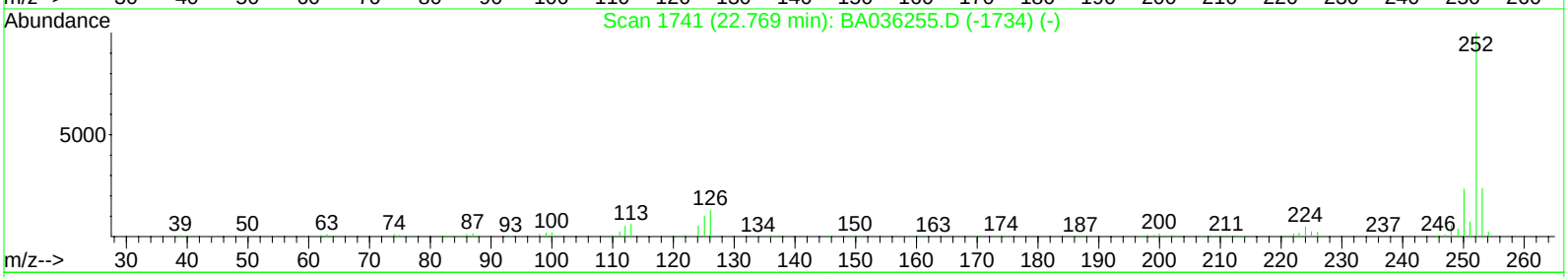
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(83) Benzo(b)fluoranthene

24.007min (+0.108) 2.87ng/ul m

response 102025

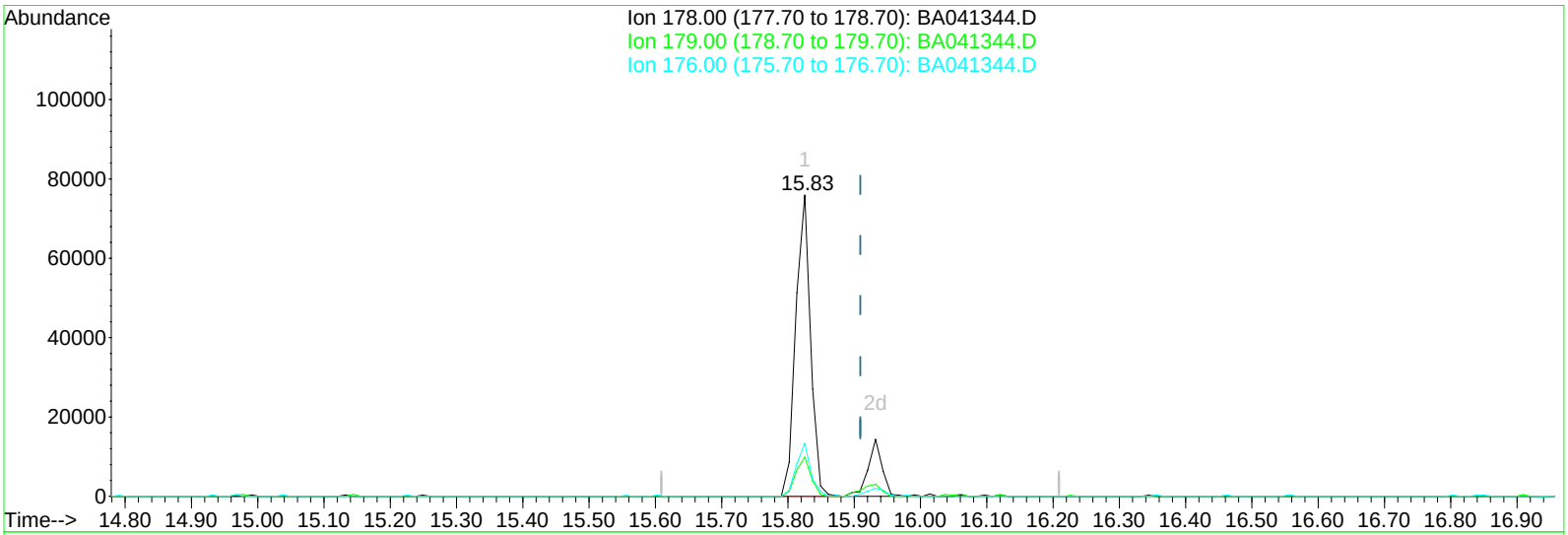
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	22.73
125.00	5.10	10.77#
0.00	0.00	0.00

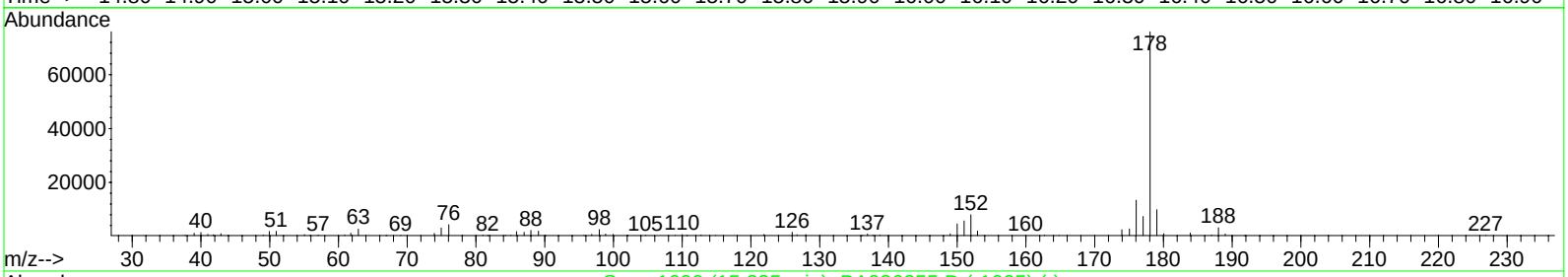
272

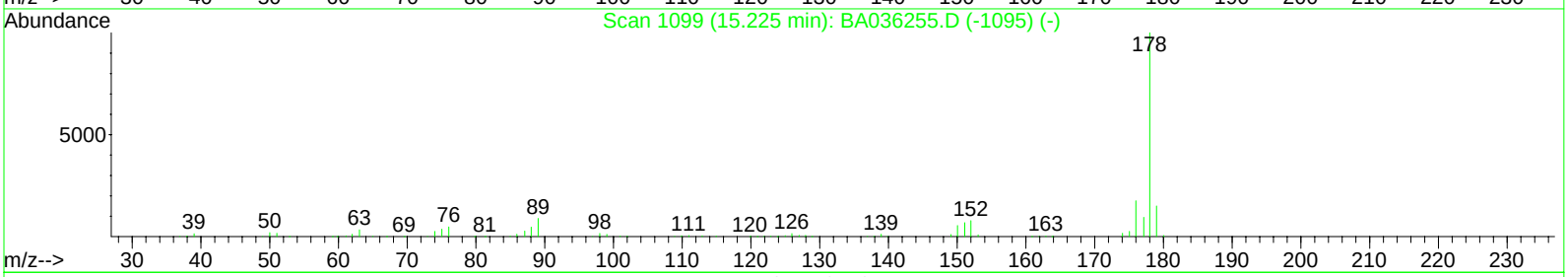
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(69) Anthracene

15.826min (-0.084) 2.43ng/ul

response 118050

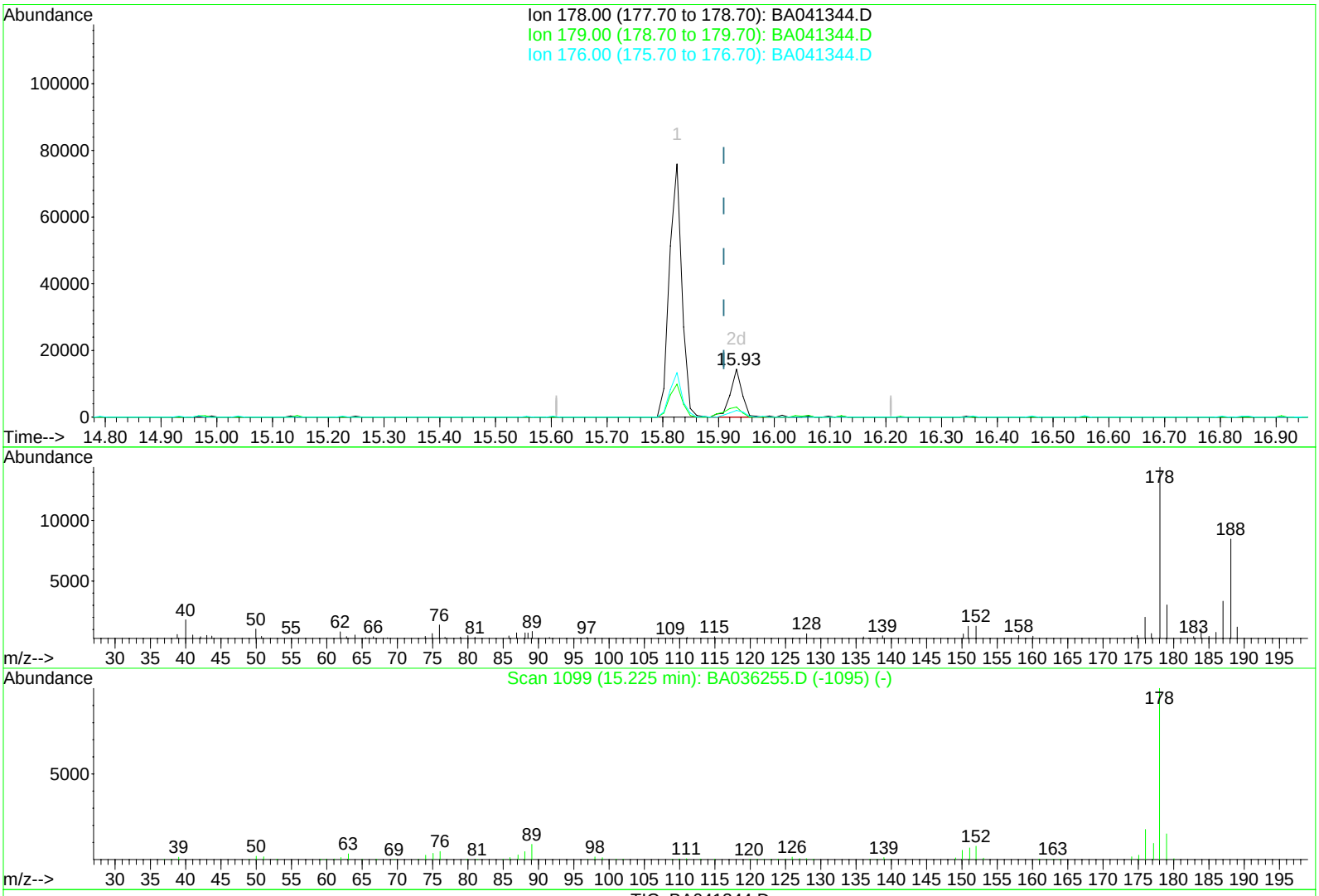
Ion	Exp%	Act%
178.00	100	100
179.00	14.90	13.01
176.00	17.90	17.61
0.00	0.00	0.00

273

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041344.D

(69) Anthracene

15.932min (+0.023) 0.45ng/ul m

response 21933

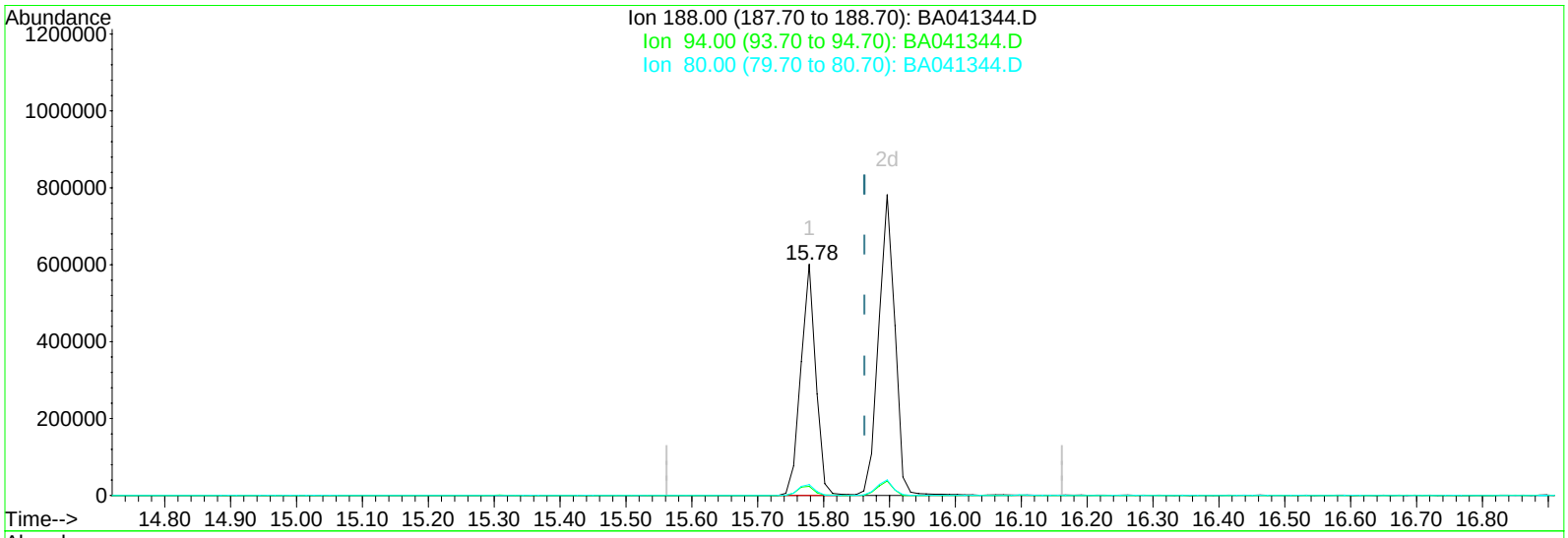
Ion	Exp%	Act%
178.00	100	100
179.00	14.90	21.06#
176.00	17.90	14.00#
0.00	0.00	0.00

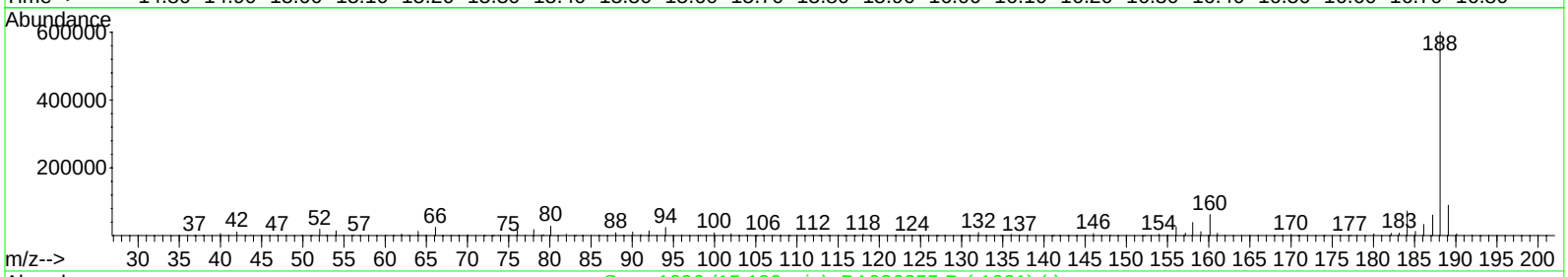
274

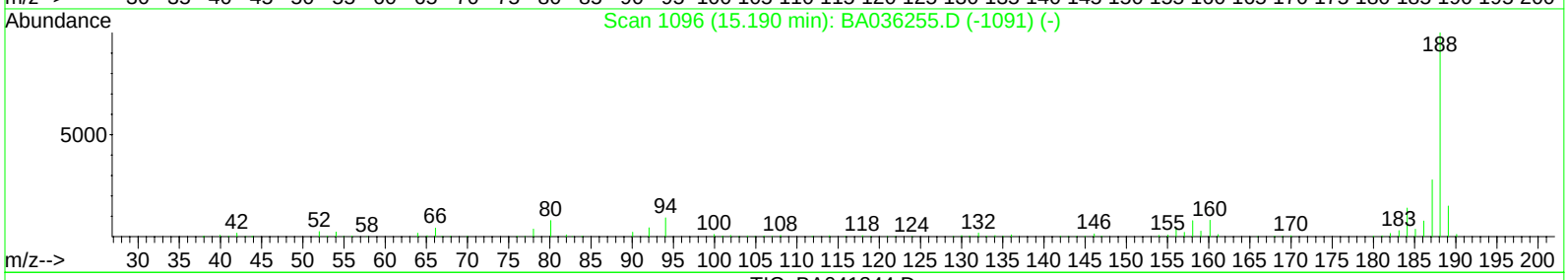
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041344.D

(68) Anthracene-d10 (S)

15.778min (-0.084) 20.89ng/ul

response 944782

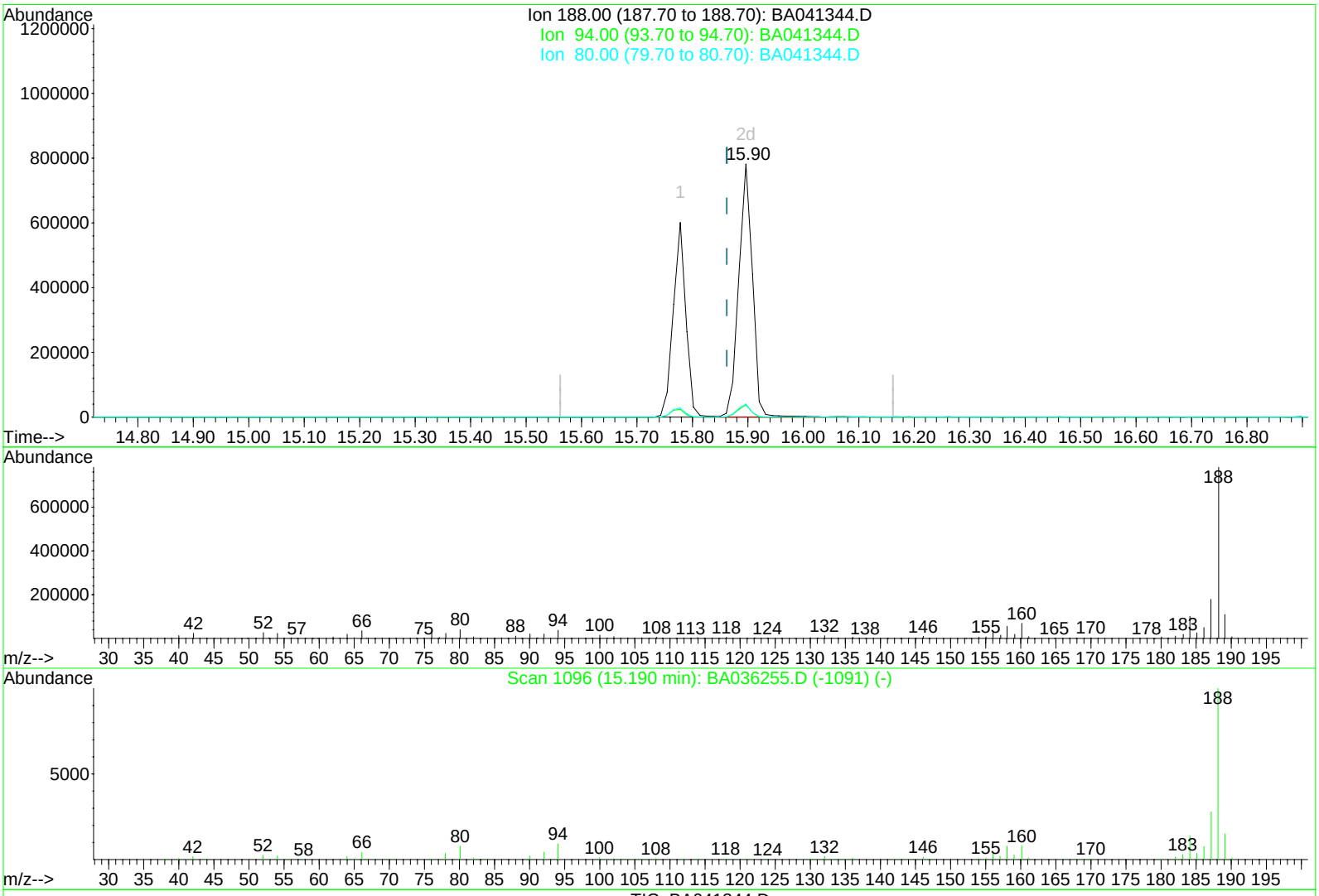
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	3.97
80.00	4.20	4.71
0.00	0.00	0.00

275

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:26:21 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041344.D

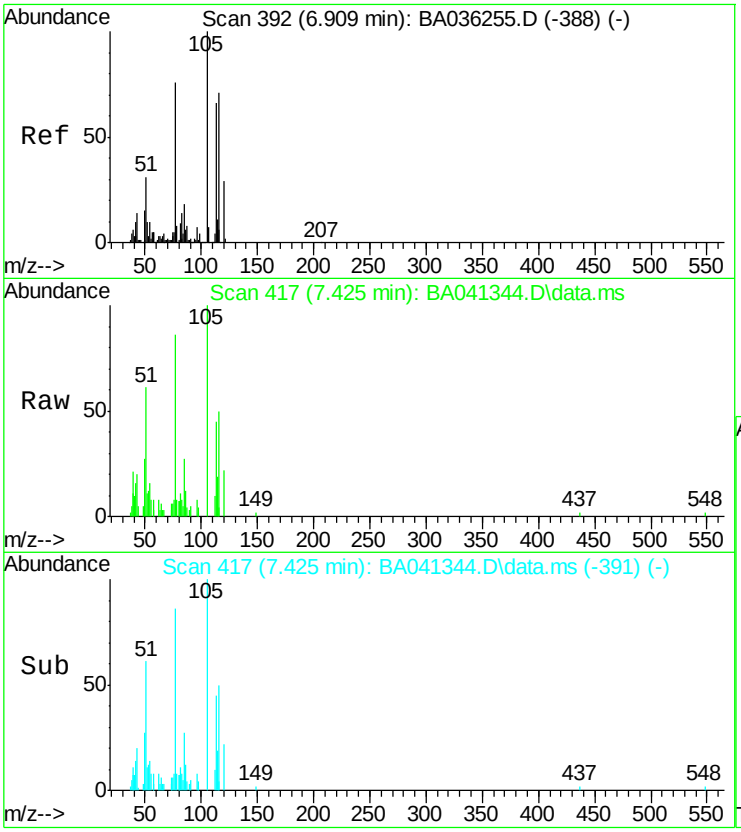
(68) Anthracene-d10 (S)

15.897min (+0.035) 29.56ng/ul m

response 1336756

Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.81#
80.00	4.20	5.16#
0.00	0.00	0.00

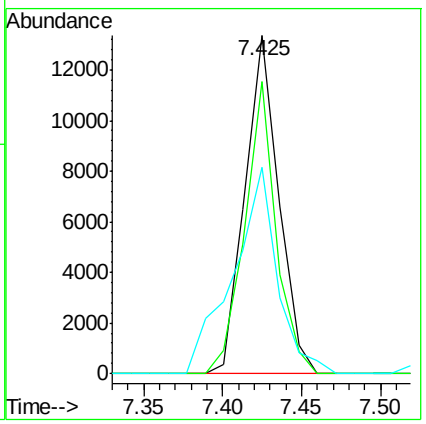
276

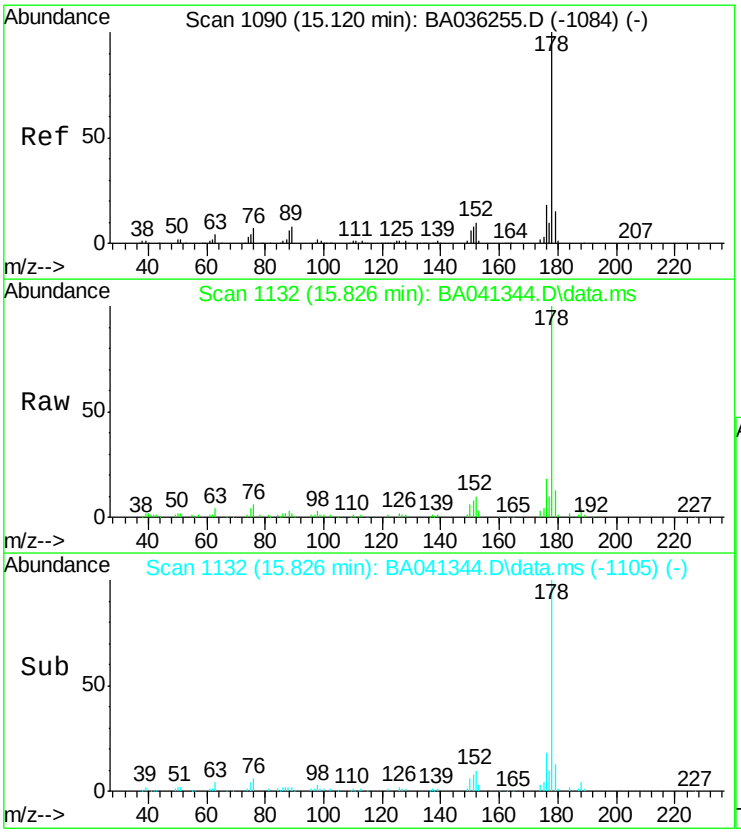


#12
Acetophenone
Concen: 1.15 ng/ul
RT: 7.425 min Scan# 417
Delta R.T. 0.002 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:105 Resp: 19799

Ion	Ratio	Lower	Upper
105	100		
77	86.3	69.4	104.2
51	60.9	42.1	63.1

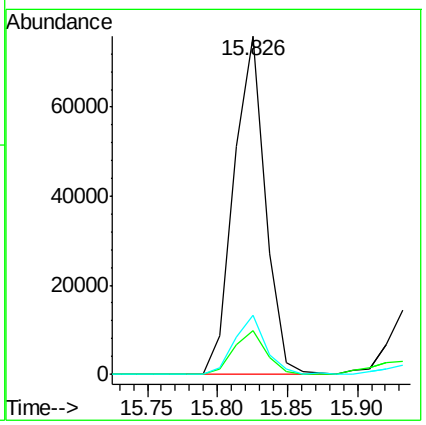


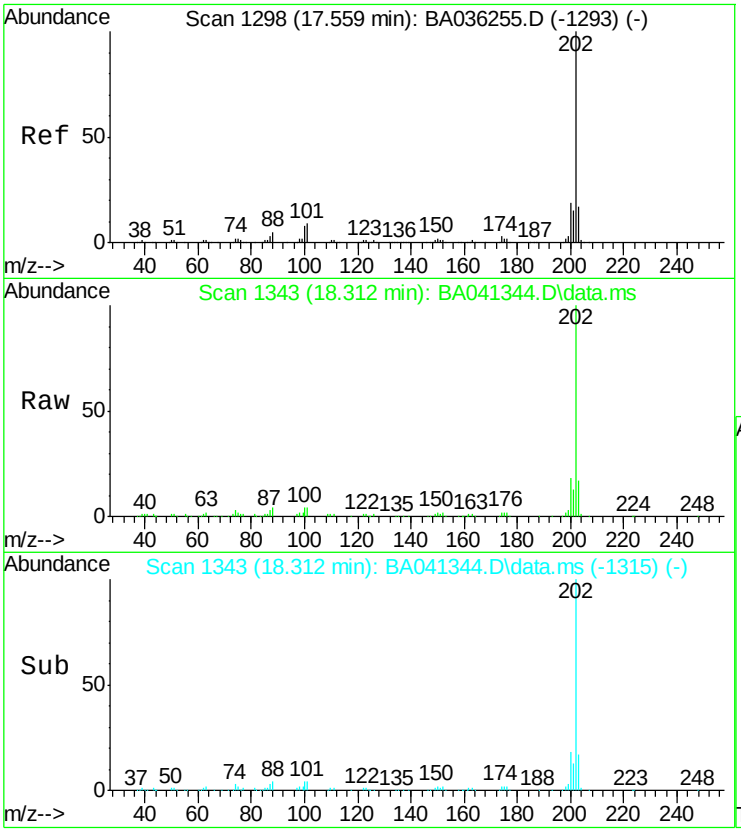


#67
Phenanthrene
Concen: 2.45 ng/ul
RT: 15.826 min Scan# 1132
Delta R.T. 0.023 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:178 Resp: 118050

Ion	Ratio	Lower	Upper
178	100		
179	13.0	12.0	18.0
176	17.6	14.8	22.2

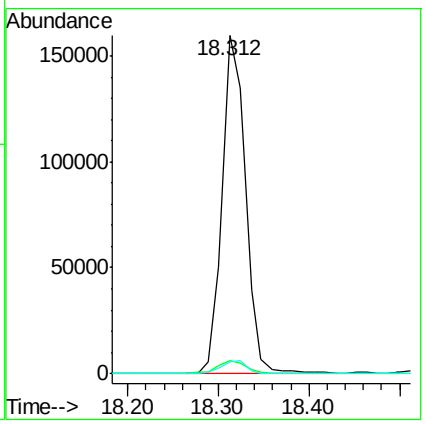


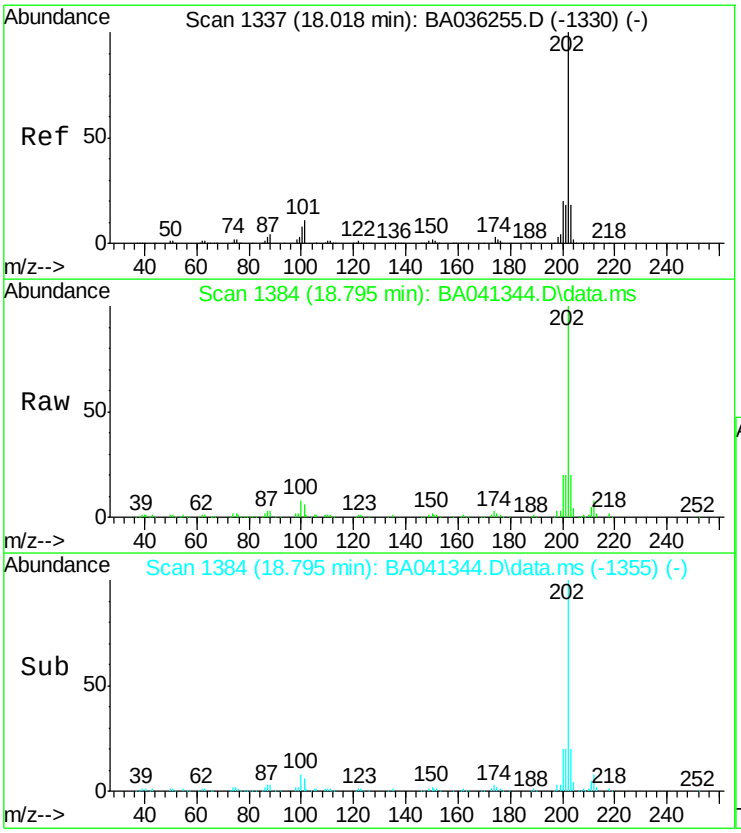


#72
Fluoranthene
Concen: 4.97 ng/ul
RT: 18.312 min Scan# 1343
Delta R.T. 0.027 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:202 Resp: 284320

Ion	Ratio	Lower	Upper
202	100		
101	3.8	2.6	4.0
100	3.6	2.9	4.3

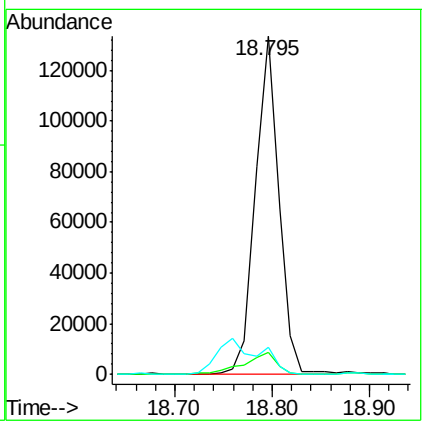


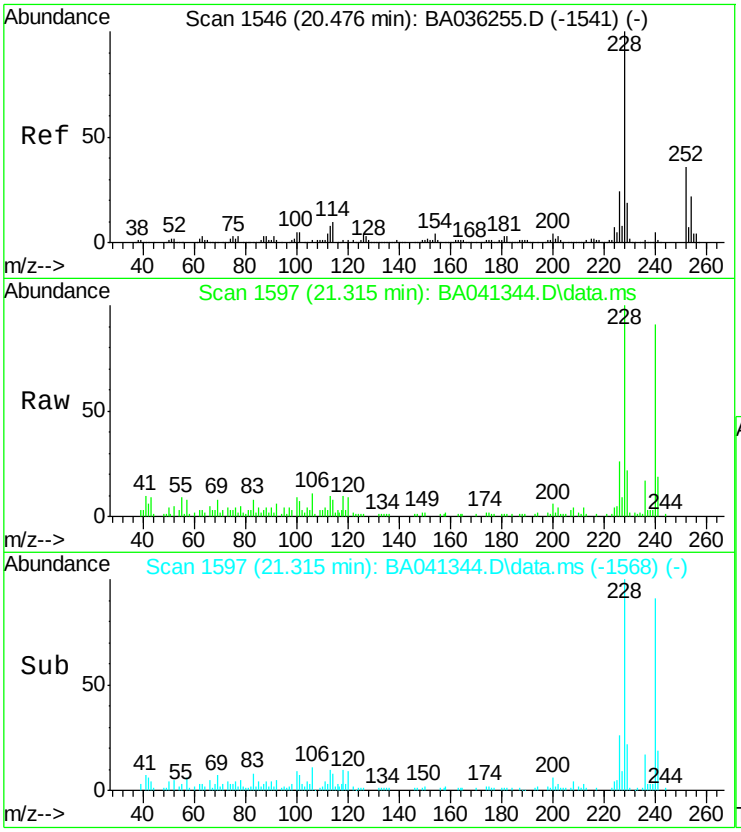


#75
Pyrene
Concen: 5.83 ng/ul
RT: 18.795 min Scan# 1384
Delta R.T. 0.039 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:202 Resp: 223602

Ion	Ratio	Lower	Upper
202	100		
101	6.3	3.5	5.3#
100	8.2	3.4	5.0#

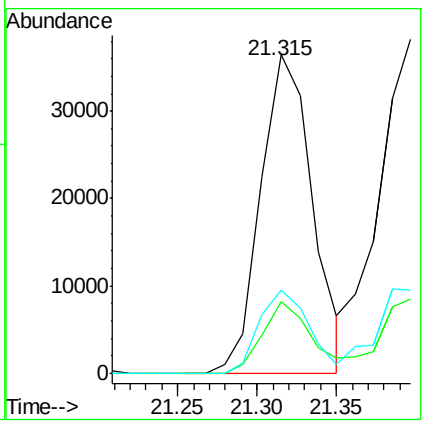


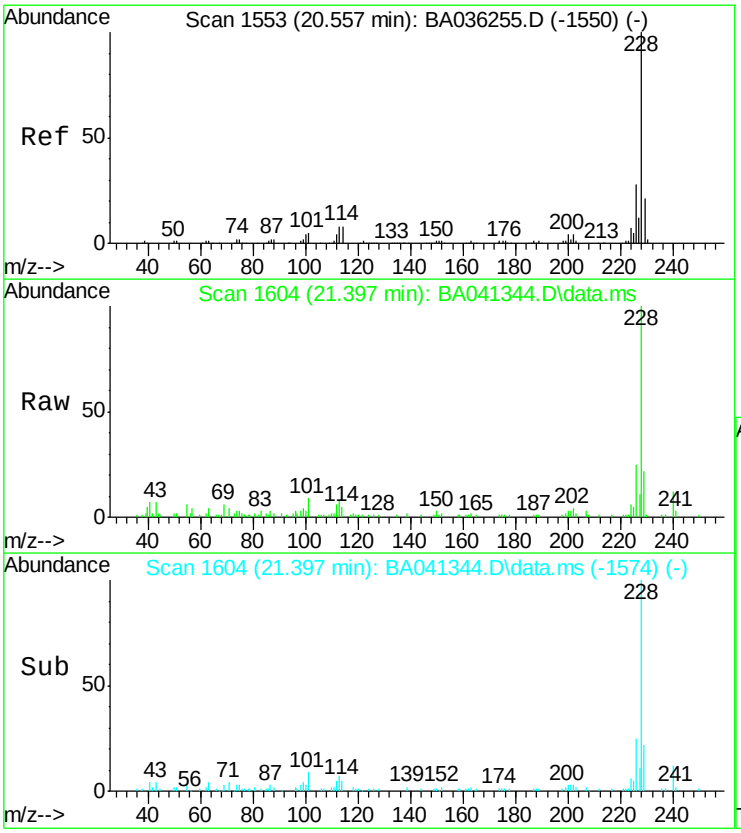


#78
Benzo(a)anthracene
Concen: 2.25 ng/ul
RT: 21.315 min Scan# 1597
Delta R.T. 0.050 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:228 Resp: 82415

Ion	Ratio	Lower	Upper
228	100		
229	22.4	15.9	23.9
226	26.0	20.2	30.2

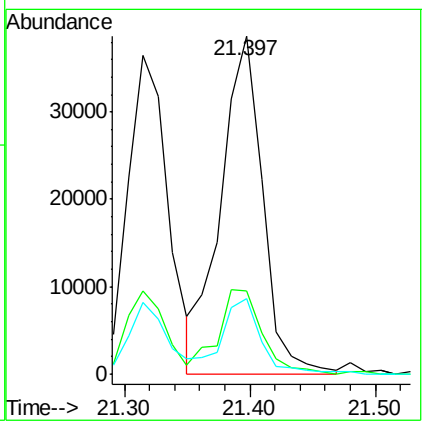


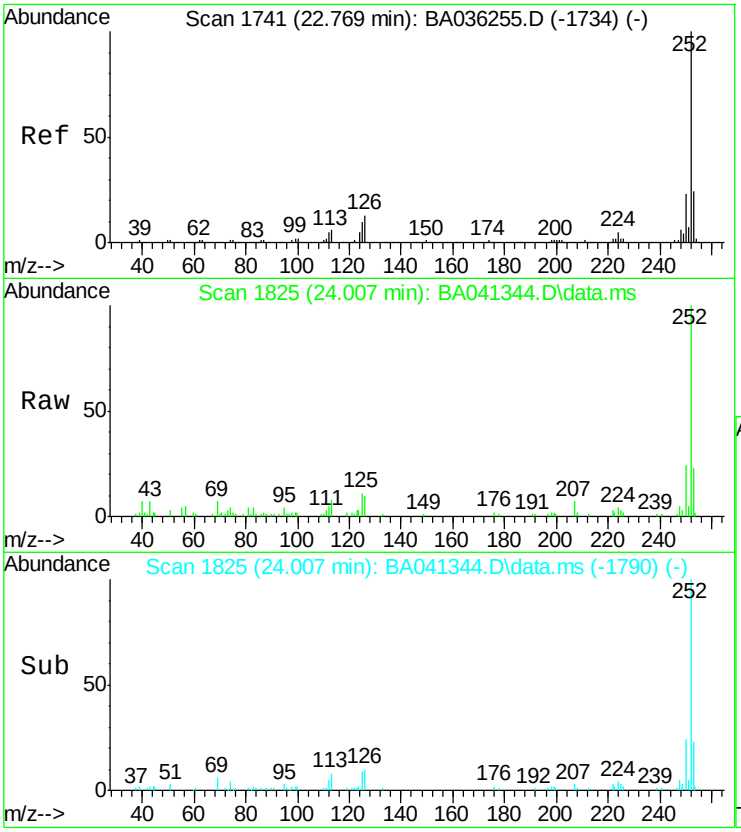


#80
Chrysene
Concen: 2.88 ng/ul
RT: 21.397 min Scan# 1604
Delta R.T. 0.050 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:228 Resp: 89765

Ion	Ratio	Lower	Upper
228	100		
226	24.5	20.6	31.0
229	22.3	14.4	21.6#

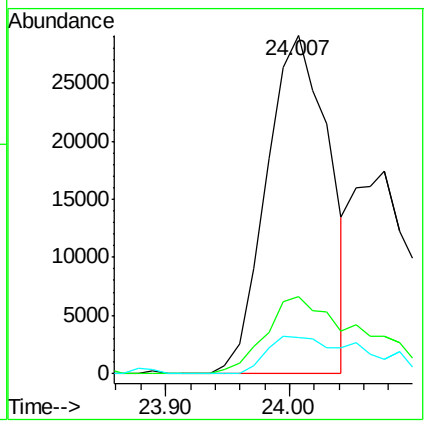


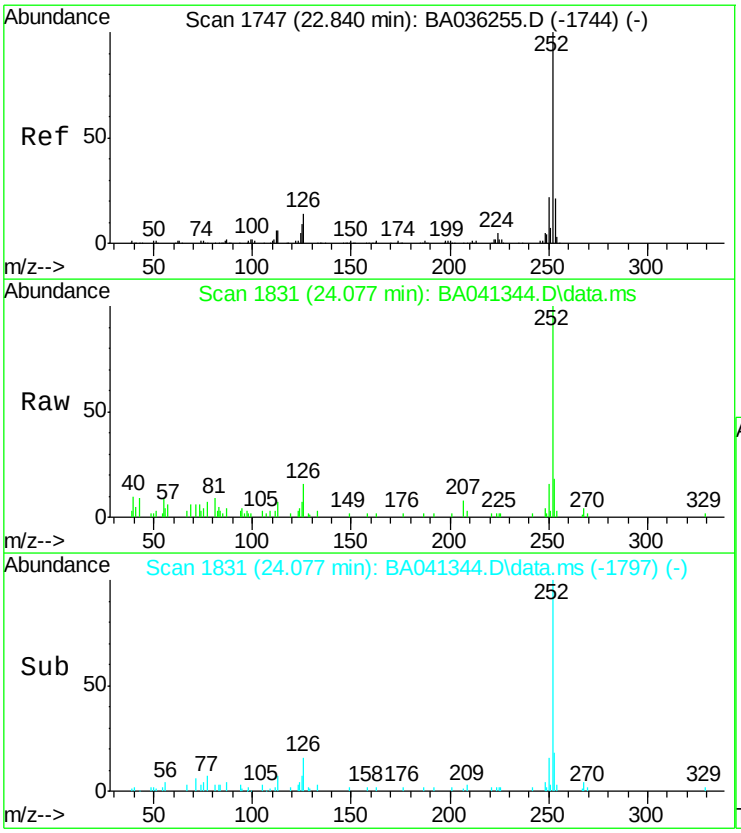


#83
Benzo(b)fluoranthene
Concen: 2.87 ng/ul m
RT: 24.007 min Scan# 1825
Delta R.T. 0.108 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:252 Resp: 102025

Ion	Ratio	Lower	Upper
252	100		
253	22.7	16.2	24.2
125	10.8	4.1	6.1#

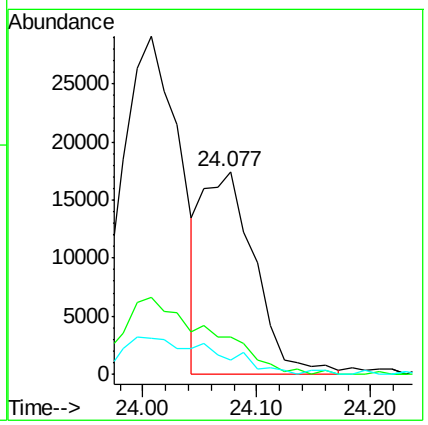


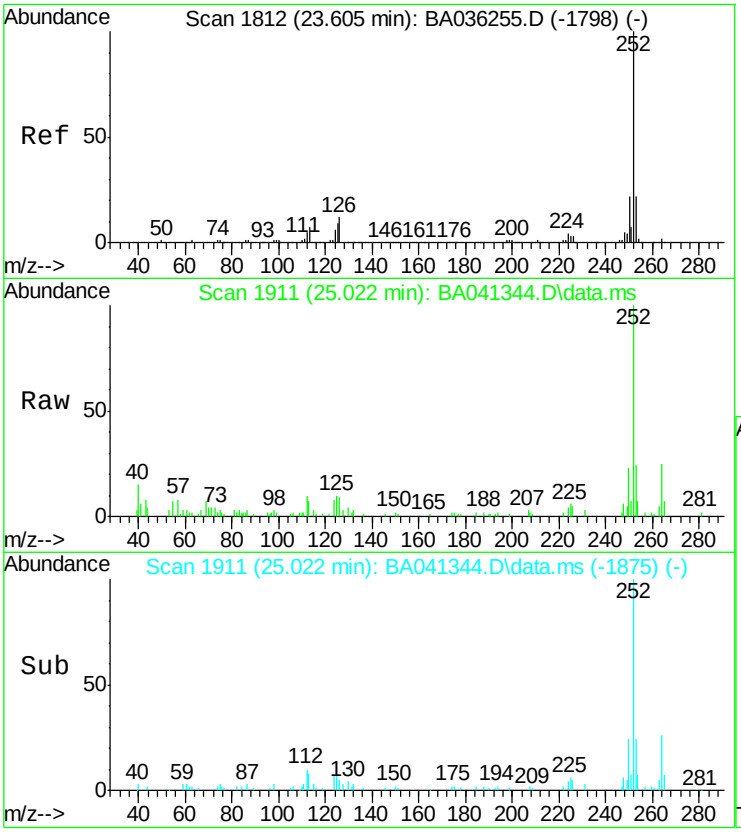


#84
Benzo(k)fluoranthene
Concen: 1.87 ng/ul m
RT: 24.077 min Scan# 1831
Delta R.T. 0.095 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:252 Resp: 56467

Ion	Ratio	Lower	Upper
252	100		
253	18.1	18.2	27.4#
125	6.9	3.5	5.3#

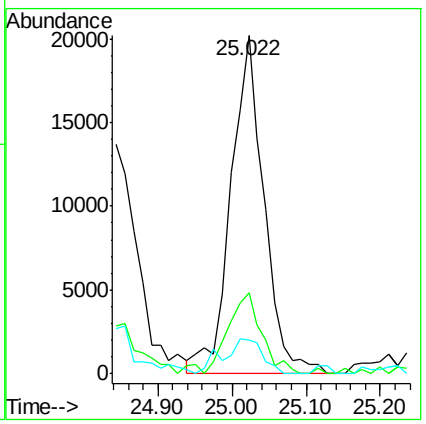


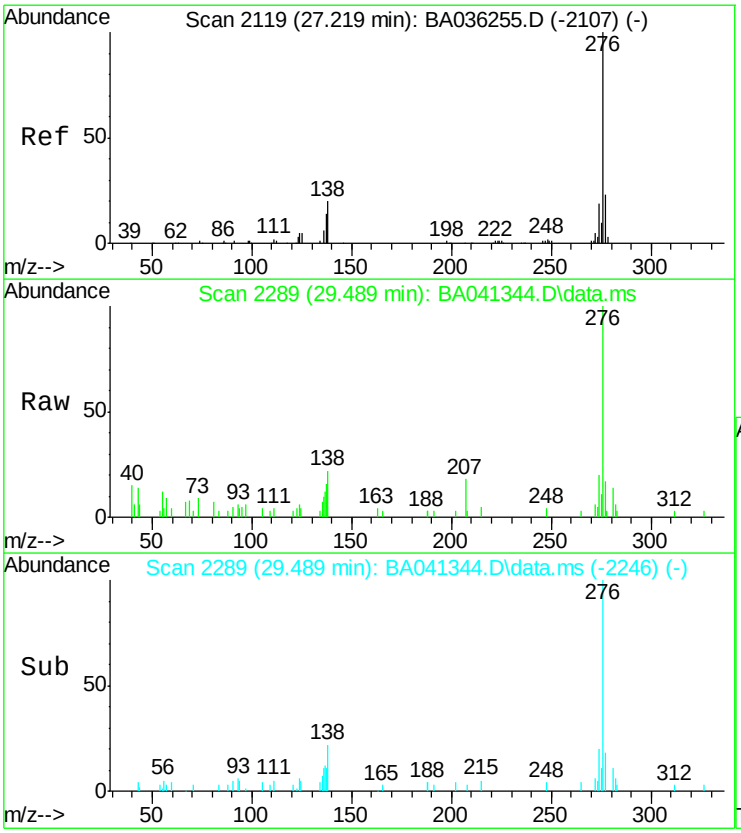


#86
Benzo(a)pyrene
Concen: 2.06 ng/ul
RT: 25.022 min Scan# 1911
Delta R.T. 0.124 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:252 Resp: 63235

Ion	Ratio	Lower	Upper
252	100		
253	23.9	15.1	22.7#
125	9.8	3.4	5.2#

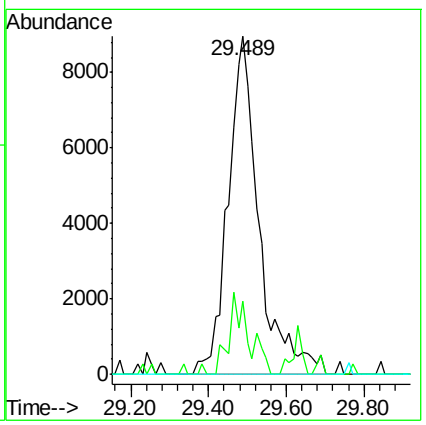


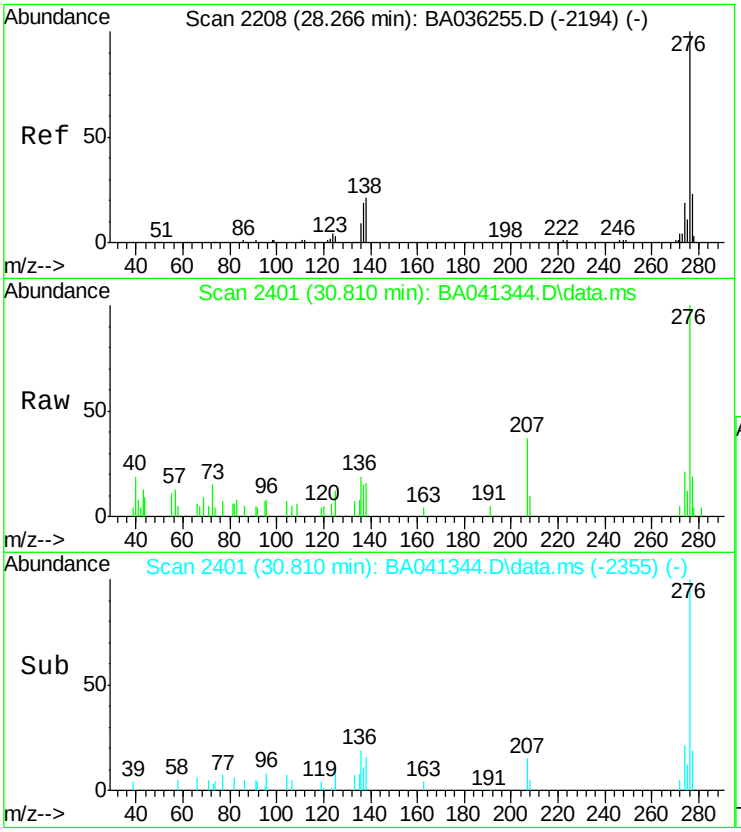


#87
Indeno(1,2,3-cd)pyrene
Concen: 1.71 ng/ul m
RT: 29.489 min Scan# 2289
Delta R.T. 0.211 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:276 Resp: 49182

Ion	Ratio	Lower	Upper
276	100		
138	21.5	8.2	12.2#
227	0.0	0.0	0.0

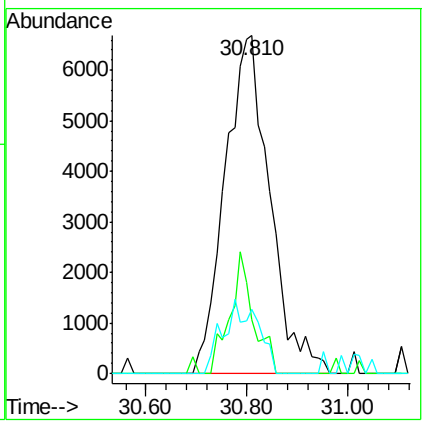




#89
Benzo(g,h,i)perylene
Concen: 1.42 ng/ul
RT: 30.810 min Scan# 2401
Delta R.T. 0.246 min
Lab File: BA041344.D
Acq: 21 Oct 2008 5:50

Tgt Ion:276 Resp: 41374

Ion	Ratio	Lower	Upper
276	100		
138	15.8	10.6	16.0
277	19.1	20.2	30.2#



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 06:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.696	152	214584	20.00	ng/ul	0.02
16) Naphthalene-d8	9.093	136	727354	20.00	ng/ul	0.01
33) Acenaphthene-d10	12.685	164	498756	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.778	188	944782	20.00	ng/ul	0.02
73) Chrysene-d12	21.350	240	691059	20.00	ng/ul	0.06
81) Perylene-d12	25.223	264	544759	20.00	ng/ul	0.15
System Monitoring Compounds						
3) Phenol-d5	6.071	99	482066	37.11	ng/ul	0.01
5) Bis-(2-Chloroethyl)eth...	6.166	67	358966	40.75	ng/ul	0.01
7) 2-Chlorophenol-d4	6.295	132	439609	39.82	ng/ul	0.00
11) 4-Methylphenol-d8	7.401	113	283271	32.14	ng/ul	0.01
17) Nitrobenzene-d5	7.707	128	233035	36.19	ng/ul	0.01
20) 2-Nitrophenol-d4	8.331	143	292040	36.84	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.799	165	470725	32.09	ng/ul	0.01
27) 4-Chloroaniline-d4	9.235	131	354206	24.42	ng/ul	0.01
41) Dimethylphthalate-d6	12.134	166	1305975	39.32	ng/ul	0.02
44) Acenaphthylene-d8	12.358	160	1539422	38.12	ng/ul	0.02
49) 4-Nitrophenol-d4	12.991	143	252682	37.32	ng/ul	0.03
55) Fluorene-d10	13.768	176	966370	36.17	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.933	200	242135	24.77	ng/ul	0.01
68) Anthracene-d10	15.897	188	1336756m	29.56	ng/ul	0.03
74) Pyrene-d10	18.760	212	1385294	45.88	ng/ul	0.04
85) Benzo(a)pyrene-d12	24.951	264	730917	24.64	ng/ul	0.13
Target Compounds						Qvalue
12) Acetophenone	7.425	105	19799	1.15	ng/ul	95
67) Phenanthrene	15.826	178	118050	2.45	ng/ul	97
72) Fluoranthene	18.312	202	284320	4.97	ng/ul	99
75) Pyrene	18.795	202	223602	5.83	ng/ul#	91
78) Benzo(a)anthracene	21.315	228	82415	2.25	ng/ul	97
80) Chrysene	21.397	228	89765	2.88	ng/ul#	95
83) Benzo(b)fluoranthene	24.007	252	102025m	2.87	ng/ul	
84) Benzo(k)fluoranthene	24.077	252	56467m	1.87	ng/ul	
86) Benzo(a)pyrene	25.022	252	63235	2.06	ng/ul#	88
87) Indeno(1,2,3-cd)pyrene	29.489	276	49182m	1.71	ng/ul	
89) Benzo(g,h,i)perylene	30.810	276	41374	1.42	ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041344.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.073	44	47	50	rBV2	38743	81951	1.98%	0.148%
2	3.132	50	52	57	rVV4	9585	27261	0.66%	0.049%
3	3.520	83	85	89	rVV2	12459	22645	0.55%	0.041%
4	3.824	109	111	116	rVV3	8298	19021	0.46%	0.034%
5	4.142	134	138	146	rVV	335518	720917	17.45%	1.299%
6	4.248	146	147	151	rVV2	18819	30951	0.75%	0.056%
7	5.506	248	254	258	rBV4	9585	24221	0.59%	0.044%
8	5.942	287	291	292	rVV3	6552	18463	0.45%	0.033%
9	5.965	292	293	297	rVV3	11316	19529	0.47%	0.035%
10	6.071	298	302	307	rVV	1216712	1991281	48.19%	3.587%
11	6.166	307	310	315	rVV	917100	1381978	33.45%	2.490%
12	6.296	318	321	328	rVV	1214629	1962542	47.50%	3.536%
13	6.449	332	334	338	rVB3	11657	21278	0.51%	0.038%
14	6.696	351	355	361	rVV	820522	1397209	33.81%	2.517%
15	7.012	379	382	388	rVB6	6949	24030	0.58%	0.043%
16	7.401	412	415	424	rVV	1255426	1854700	44.89%	3.341%
17	7.707	437	441	444	rBV	1286400	2040953	49.39%	3.677%
18	8.331	490	494	497	rBV	1134579	1877153	45.43%	3.382%
19	8.378	497	498	505	rVB3	9546	23853	0.58%	0.043%
20	8.543	510	512	516	rVV2	13099	23042	0.56%	0.042%
21	8.799	530	534	537	rBV	1705624	2396438	58.00%	4.317%
22	9.093	556	559	562	rBV	1054456	1598995	38.70%	2.881%
23	9.235	568	571	574	rBV	956510	1363888	33.01%	2.457%
24	10.445	671	674	680	rVV	51694	96784	2.34%	0.174%
25	11.326	746	749	751	rBV2	15823	26256	0.64%	0.047%
26	12.134	814	818	820	rBV	2183772	3205787	77.58%	5.775%
27	12.170	820	821	824	rVB	34211	40240	0.97%	0.072%
28	12.358	833	837	840	rBV	2101467	3395453	82.17%	6.117%
29	12.685	861	865	868	rBV	1297323	2037144	49.30%	3.670%
30	12.744	868	870	875	rVB2	11467	23286	0.56%	0.042%
31	12.991	886	891	898	rBV	1016066	1993787	48.25%	3.592%
32	13.109	898	901	904	rVV3	47136	67680	1.64%	0.122%
33	13.180	904	907	909	rVB2	29185	41001	0.99%	0.074%
34	13.250	911	913	917	rVB4	10667	21077	0.51%	0.038%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.650	945	947	949	rVB2	12964	21269	0.51%	0.038%
36	13.768	953	957	960	rBV	2246861	3497654	84.65%	6.301%
37	13.933	968	971	974	rVV	1068189	1595073	38.60%	2.874%
38	14.027	976	979	982	rVV	21681	46864	1.13%	0.084%
39	14.191	988	993	997	rBV3	9942	36373	0.88%	0.066%
40	14.378	1003	1009	1011	rBV5	17240	41242	1.00%	0.074%
41	14.720	1034	1038	1039	rBV	31422	54345	1.32%	0.098%
42	15.308	1086	1088	1091	rBV2	37541	55628	1.35%	0.100%
43	15.520	1102	1106	1111	rBV4	15737	45380	1.10%	0.082%
44	15.662	1115	1118	1120	rBV2	32254	52640	1.27%	0.095%
45	15.720	1120	1123	1124	rBV2	12056	23003	0.56%	0.041%
46	15.778	1124	1128	1130	rBV	1387260	2210557	53.50%	3.982%
47	15.826	1130	1132	1134	rVB	170945	249452	6.04%	0.449%
48	15.897	1134	1138	1141	rBV	2030501	3447098	83.42%	6.210%
49	16.108	1153	1156	1158	rVB2	51139	81782	1.98%	0.147%
50	16.285	1169	1171	1175	rVB3	11741	22700	0.55%	0.041%
51	16.556	1190	1194	1197	rVB3	15126	26971	0.65%	0.049%
52	16.839	1214	1218	1220	rBV	29233	51548	1.25%	0.093%
53	16.898	1220	1223	1228	rVB2	33737	62278	1.51%	0.112%
54	17.051	1233	1236	1240	rBV3	104767	232862	5.64%	0.420%
55	17.263	1250	1254	1256	rBV3	13227	24151	0.58%	0.044%
56	17.451	1268	1270	1271	rVV	17003	24676	0.60%	0.044%
57	17.499	1271	1274	1279	rVB3	39357	89921	2.18%	0.162%
58	18.006	1312	1317	1319	rBV5	13464	38370	0.93%	0.069%
59	18.230	1333	1336	1338	rVV3	21380	49670	1.20%	0.089%
60	18.312	1340	1343	1347	rVB	340790	605899	14.66%	1.092%
61	18.606	1365	1368	1372	rVB4	23511	57502	1.39%	0.104%
62	18.760	1376	1381	1388	rVV2	1931963	4132001	100.00%	7.444%
63	18.901	1390	1393	1396	rVV4	16707	44420	1.08%	0.080%
64	19.055	1404	1406	1409	rVB2	33347	49677	1.20%	0.089%
65	19.244	1419	1422	1423	rBV3	9667	23186	0.56%	0.042%
66	19.279	1423	1425	1428	rVB3	19332	41263	1.00%	0.074%
67	19.504	1435	1444	1449	rBV	53209	179407	4.34%	0.323%
68	19.646	1453	1456	1459	rVB	42179	79583	1.93%	0.143%
69	19.717	1459	1462	1464	rBV3	32382	79928	1.93%	0.144%
70	19.752	1464	1465	1469	rVV4	35038	63414	1.53%	0.114%
71	19.847	1471	1473	1475	rVV2	14419	23830	0.58%	0.043%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

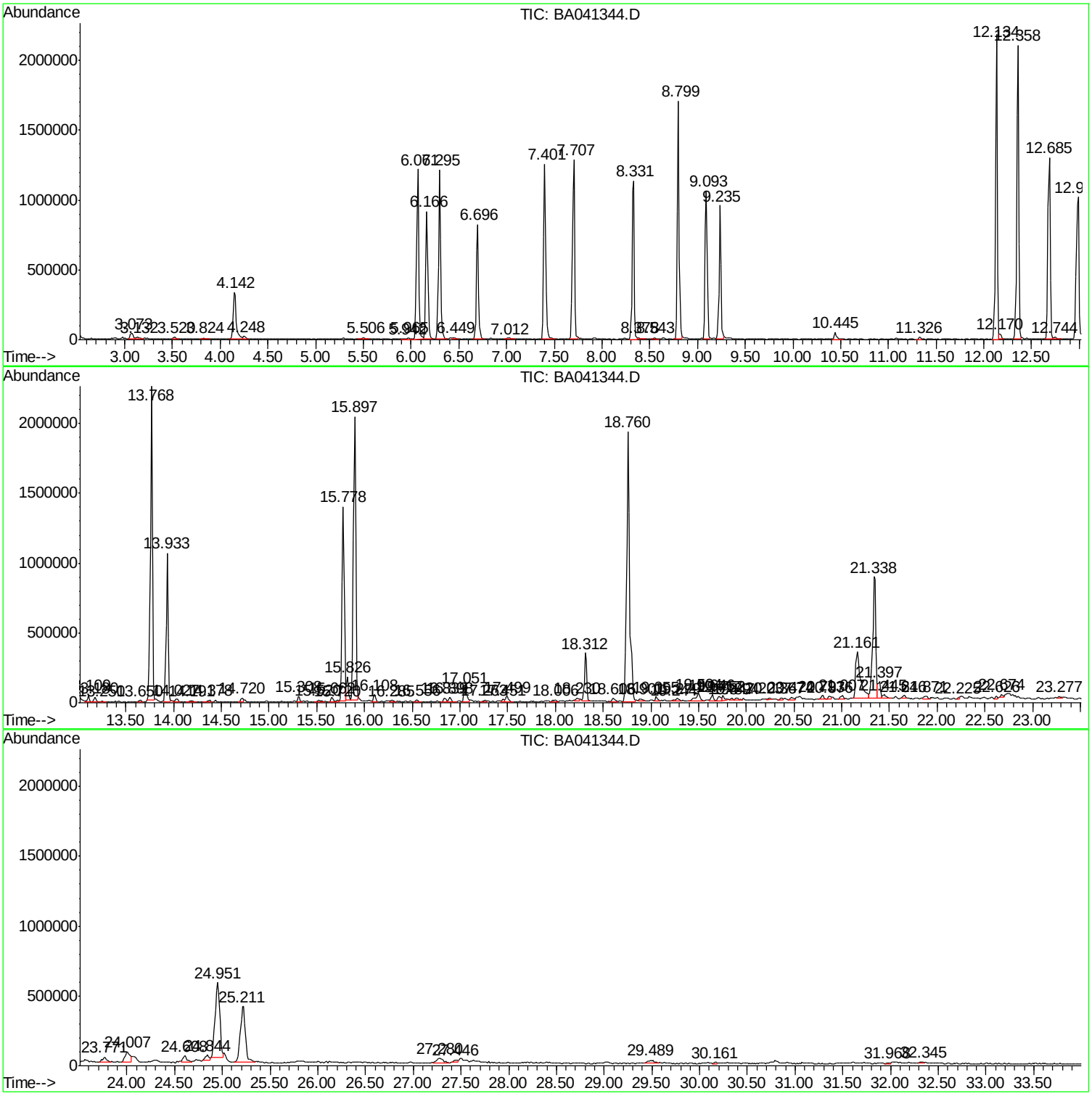
72	19.894	1475	1477	1482	rVV3	13841	39191	0.95%	0.071%
73	20.237	1504	1506	1509	rVV4	10746	20674	0.50%	0.037%
74	20.367	1514	1517	1519	rBV4	12908	28905	0.70%	0.052%
75	20.474	1523	1526	1529	rBV5	18744	41546	1.01%	0.075%
76	20.793	1550	1553	1557	rBV3	25495	52765	1.28%	0.095%
77	20.876	1557	1560	1561	rBV3	19071	41003	0.99%	0.074%
78	21.007	1567	1571	1573	rVB3	26439	51275	1.24%	0.092%
79	21.161	1580	1584	1594	rBV3	332654	1140498	27.60%	2.055%
80	21.338	1594	1599	1602	rVV	871842	2112096	51.12%	3.805%
81	21.397	1602	1604	1606	rVV	119472	216796	5.25%	0.391%
82	21.445	1606	1608	1614	rVB7	28282	64219	1.55%	0.116%
83	21.646	1623	1625	1628	rVB4	20042	41624	1.01%	0.075%
84	21.871	1642	1644	1648	rVB3	20060	49445	1.20%	0.089%
85	22.225	1672	1674	1675	rBV2	11943	22232	0.54%	0.040%
86	22.626	1705	1708	1709	rBV3	17008	32607	0.79%	0.059%
87	22.674	1710	1712	1714	rVV2	22133	34771	0.84%	0.063%
88	23.277	1761	1763	1766	rBV4	13535	29655	0.72%	0.053%
89	23.771	1800	1805	1810	rVB4	34186	93794	2.27%	0.169%
90	24.007	1820	1825	1828	rBV2	70688	252080	6.10%	0.454%
91	24.608	1873	1876	1882	rVB3	43687	120546	2.92%	0.217%
92	24.844	1892	1896	1898	rBV4	40979	110055	2.66%	0.198%
93	24.951	1899	1905	1910	rBV	539768	1816715	43.97%	3.273%
94	25.211	1920	1927	1938	rBV	396836	1410747	34.14%	2.541%
95	27.280	2096	2102	2110	rVB5	33313	149685	3.62%	0.270%
96	27.446	2112	2116	2118	rBV5	19052	54689	1.32%	0.099%
97	29.489	2284	2289	2296	rVB6	21952	80476	1.95%	0.145%
98	30.161	2344	2346	2348	rBV3	9472	19415	0.47%	0.035%
99	31.968	2497	2499	2502	rBV3	7128	22757	0.55%	0.041%
100	32.345	2527	2531	2532	rBV4	10899	26214	0.63%	0.047%

Sum of corrected areas: 55508886

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

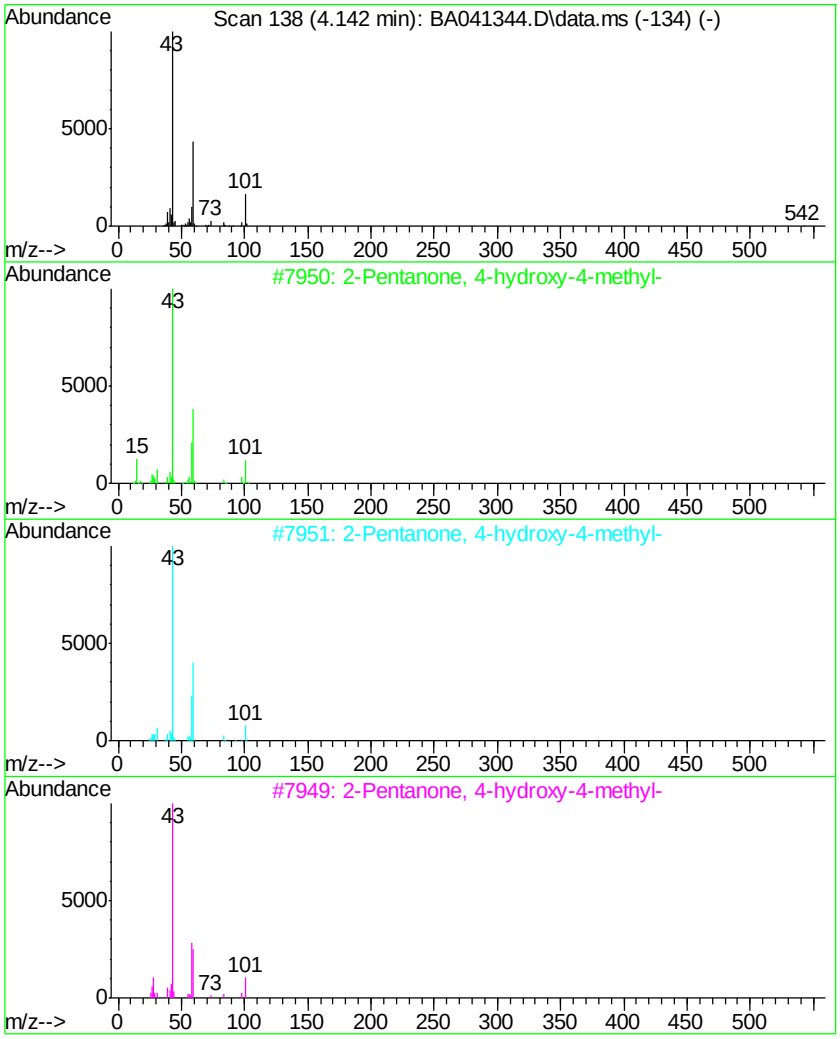
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

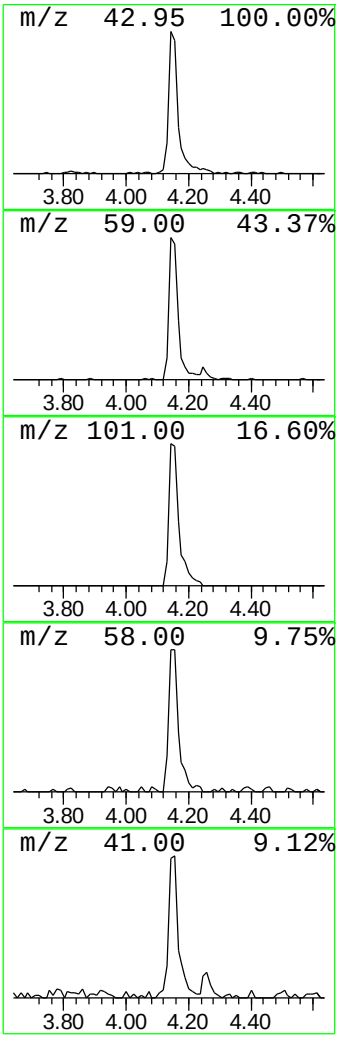
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.140	10.32 ng/ul	720917	1,4-Dichlorobenzene-d4	6.696

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	42
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On    : 21 Oct 2008   5:50
Operator  : HNP
Sample    : Z4923-11
Misc      :
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

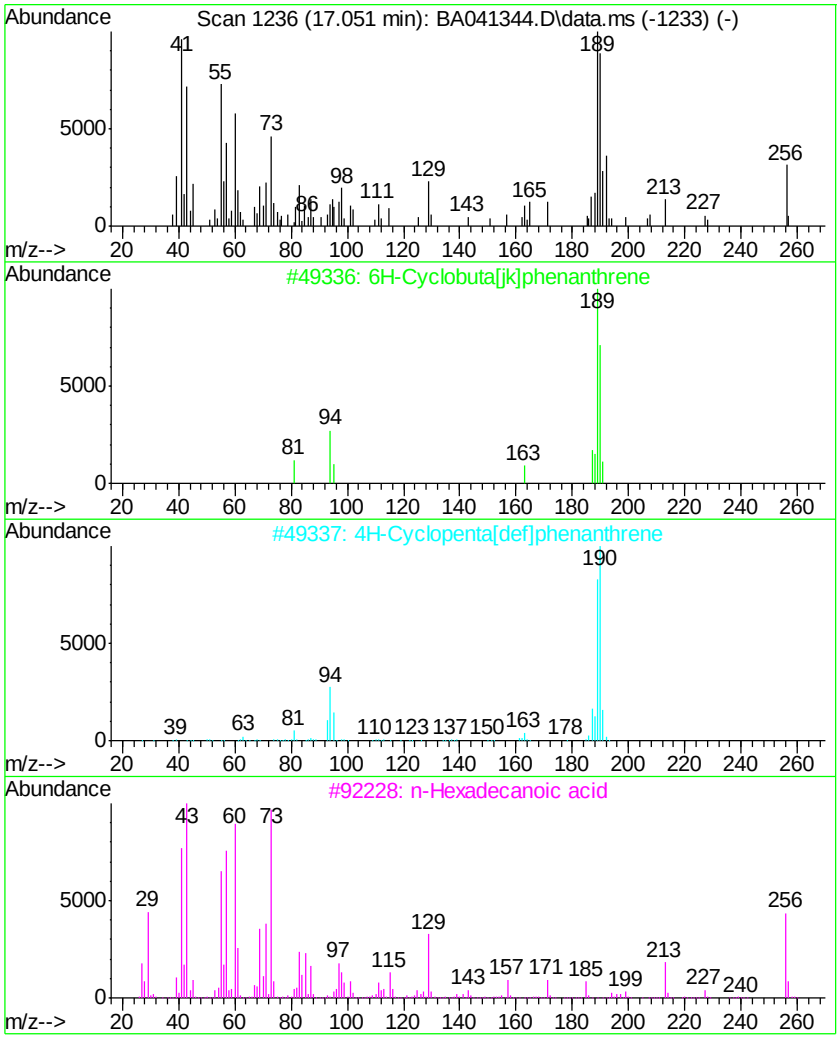
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

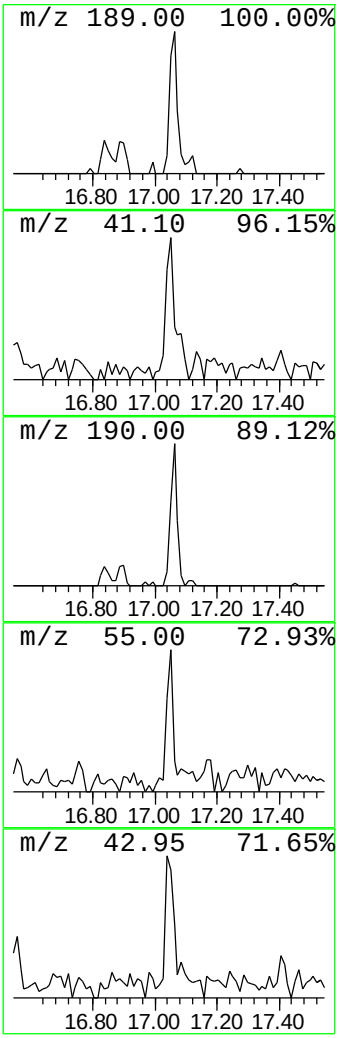
****

Peak Number 2 6H-Cyclobuta[jk]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.050	2.11 ng/ul	232862	Phenanthrene-d10	15.778

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	52
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	44
4	3-(Trifluoromethoxy)benzaldehyde	190	C8H5F3O2	052771-21-8	38
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	32





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

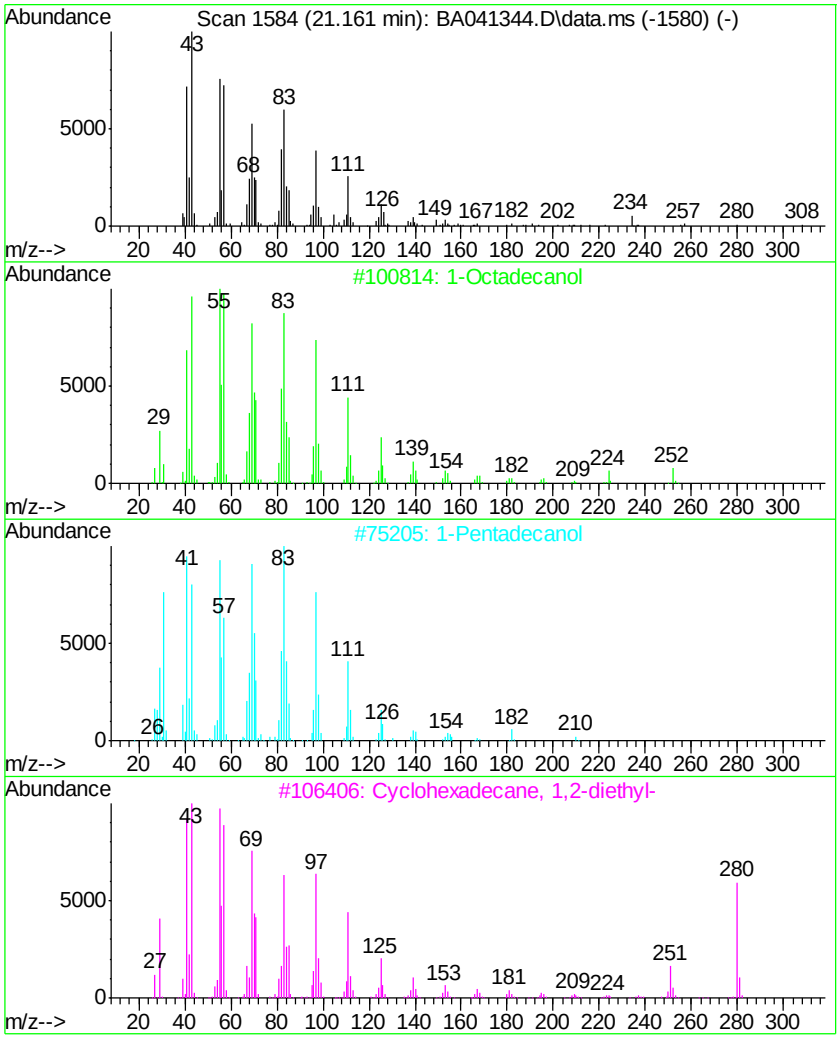
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

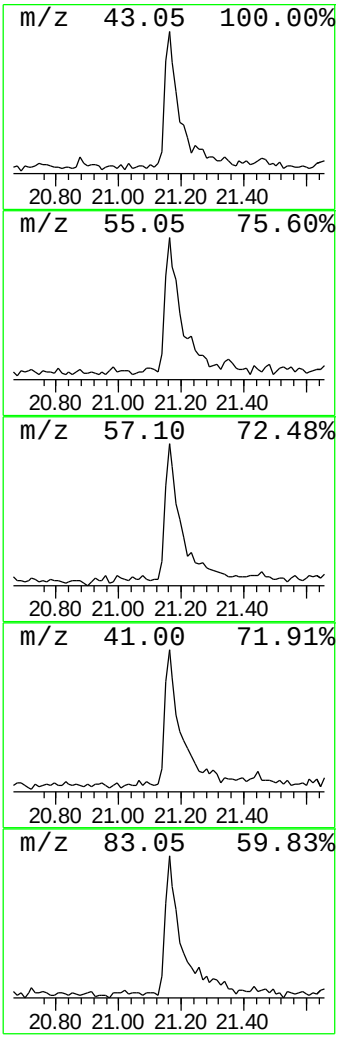
****

Peak Number 3 1-Octadecanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.160	10.80 ng/ul	1140500	Chrysene-d12	21.350

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Octadecanol	270	C18H38O	000112-92-5	80
2	1-Pentadecanol	228	C15H32O	000629-76-5	80
3	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	78
4	Isoheptadecanol	256	C17H36O	057289-07-3	72
5	1-Eicosene	280	C20H40	003452-07-1	60





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

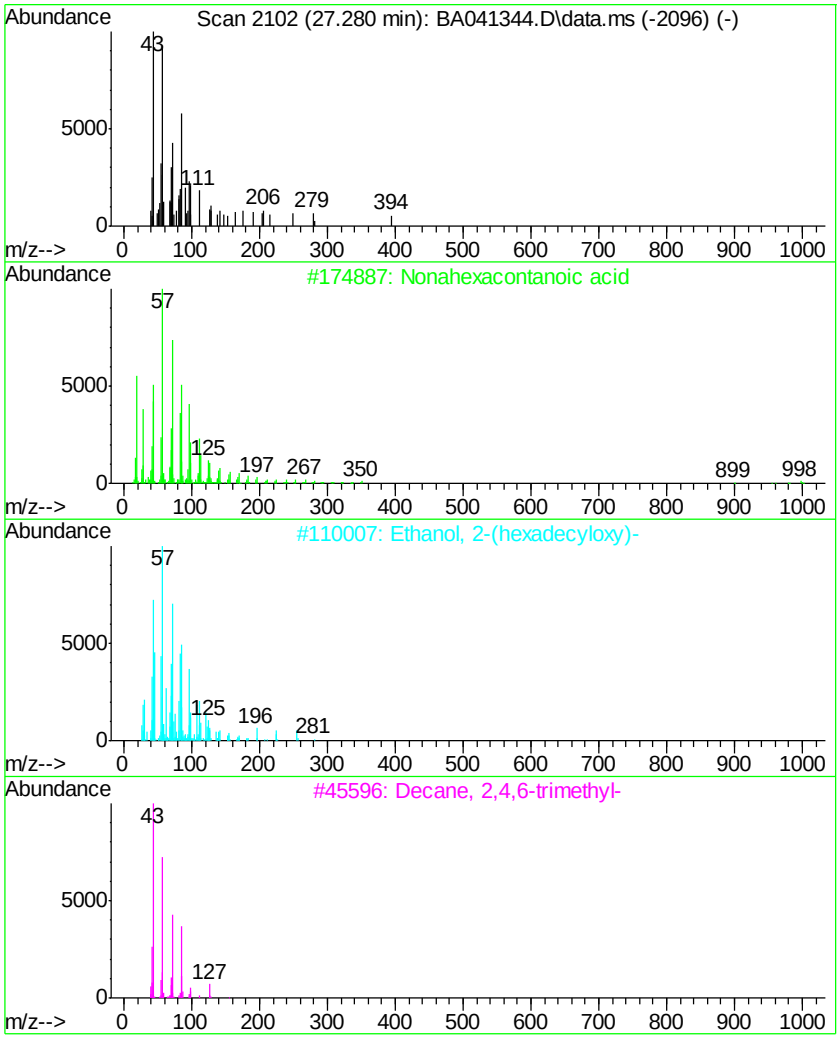
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

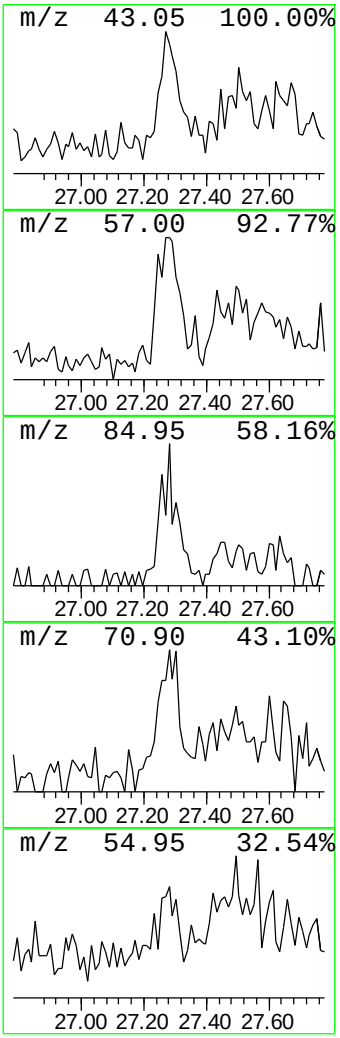
****

Peak Number 4 unknown27.28 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.280	2.12 ng/ul	149685	Perylene-d12	25.223

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonahexacontanoic acid	999	C69H138O2	040710-32-5	47
2	Ethanol, 2-(hexadecyloxy)-	286	C18H38O2	002136-71-2	47
3	Decane, 2,4,6-trimethyl-	184	C13H28	062108-27-4	43
4	Disulfide, di-tert-dodecyl	402	C24H50S2	027458-90-8	43
5	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	38





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041344.D
Acq On : 21 Oct 2008 5:50
Operator : HNP
Sample : Z4923-11
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.140	10.3	ng/ul	720917	1	6.696	1397210	20.0
6H-Cyclobuta[jk...	17.050	2.1	ng/ul	232862	4	15.778	2210560	20.0
1-Octadecanol	21.160	10.8	ng/ul	1140500	5	21.350	2112100	20.0
unknown27.28	27.280	2.1	ng/ul	149685	6	25.223	1410750	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK1B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-12

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041330.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.95 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	39	J
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	75	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK1B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-12

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041330.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.95 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BACK1B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-12

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041330.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.95 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.14	190	JN
02.	1454-85-9	1-Heptadecanol	21.09	450	JNB
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
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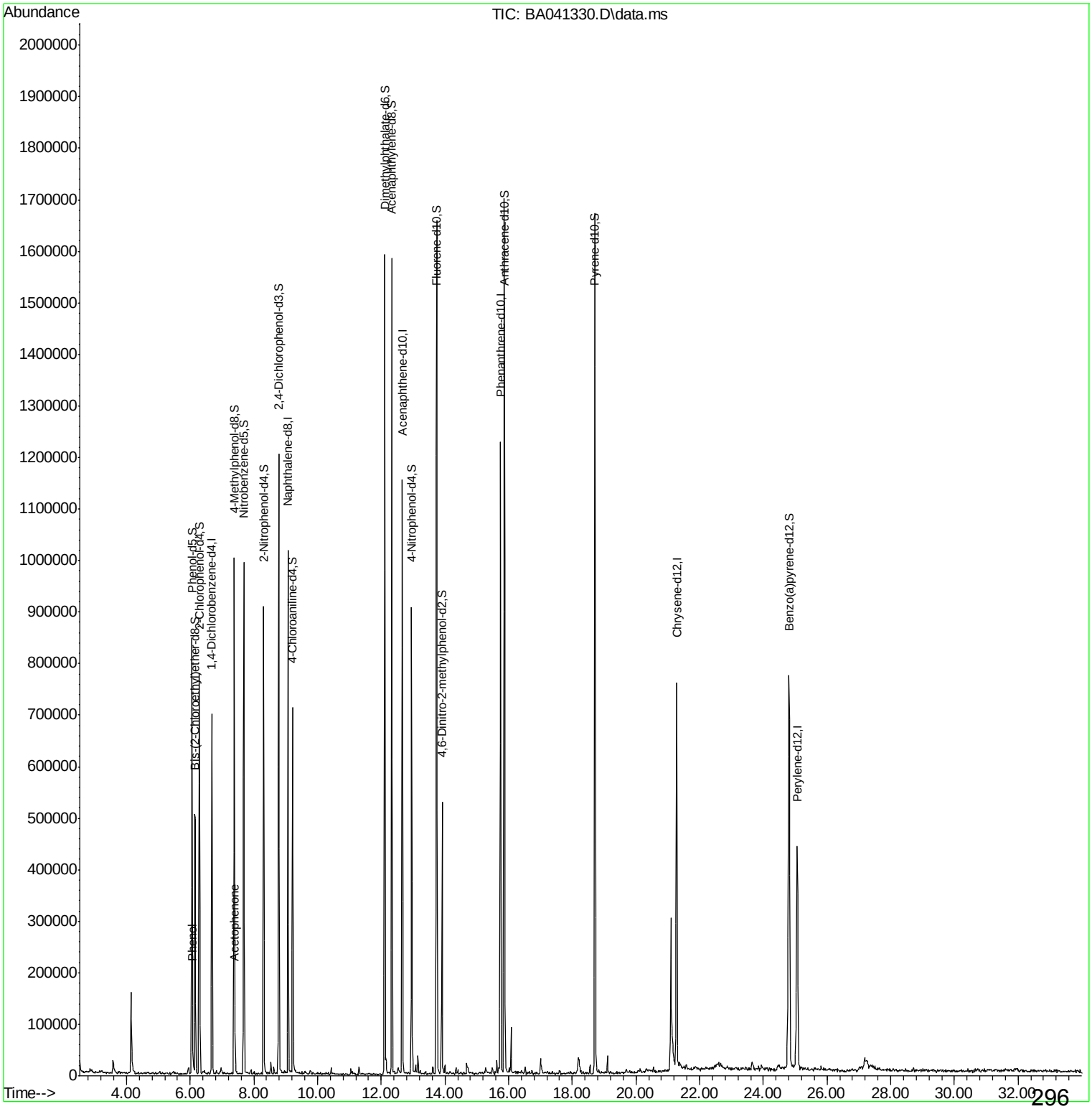
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

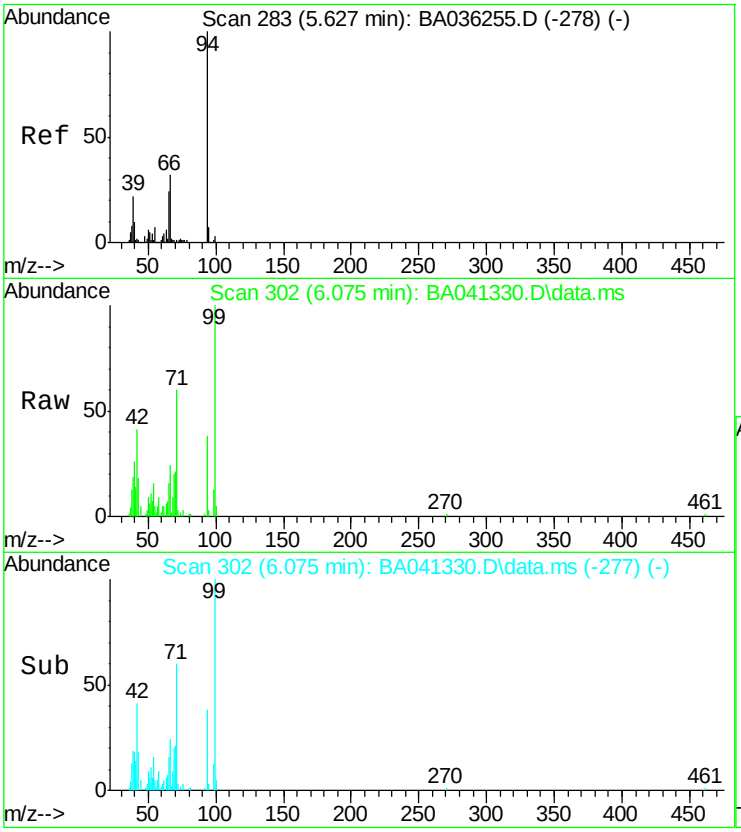
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 02:03:33 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

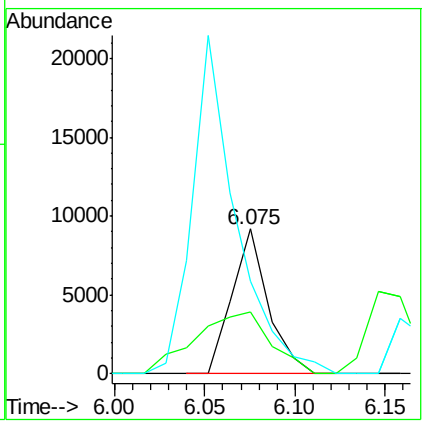


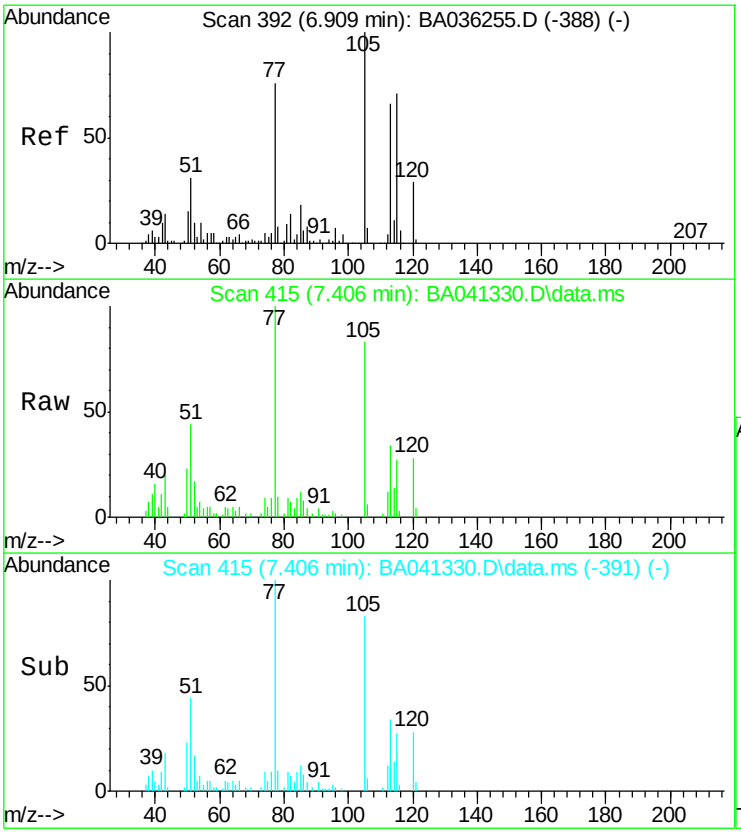


#4
Phenol
Concen: 1.03 ng/ul
RT: 6.075 min Scan# 302
Delta R.T. -0.006 min
Lab File: BA041330.D
Acq: 20 Oct 2008 20:09

Tgt Ion: 94 Resp: 12740

Ion	Ratio	Lower	Upper
94	100		
65	42.5	29.0	43.6
66	63.9	53.7	80.5

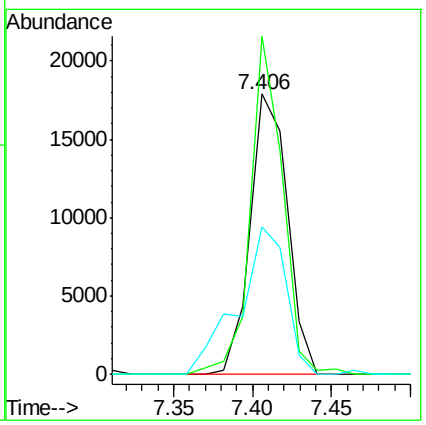




#12
Acetophenone
Concen: 1.95 ng/ul
RT: 7.406 min Scan# 415
Delta R.T. -0.017 min
Lab File: BA041330.D
Acq: 20 Oct 2008 20:09

Tgt Ion:105 Resp: 29376

Ion	Ratio	Lower	Upper
105	100		
77	120.6	69.4	104.2#
51	52.6	42.1	63.1



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 02:03:33 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.676	152	187581	20.00	ng/ul	0.00
16) Naphthalene-d8	9.075	136	658879	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.663	164	439953	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.745	188	853955	20.00	ng/ul	-0.01
73) Chrysene-d12	21.284	240	596991	20.00	ng/ul	0.00
81) Perylene-d12	25.065	264	576860	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.052	99	313424	27.60	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.146	67	228318	29.65	ng/ul	0.00
7) 2-Chlorophenol-d4	6.288	132	289376	29.98	ng/ul	0.00
11) 4-Methylphenol-d8	7.382	113	218062	28.30	ng/ul	0.00
17) Nitrobenzene-d5	7.689	128	169872	29.12	ng/ul	0.00
20) 2-Nitrophenol-d4	8.311	143	183017	25.49	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.781	165	320200	24.10	ng/ul	0.00
27) 4-Chloroaniline-d4	9.217	131	265338	20.19	ng/ul	0.00
41) Dimethylphthalate-d6	12.110	166	931394	31.79	ng/ul	0.00
44) Acenaphthylene-d8	12.332	160	1139591	31.99	ng/ul	0.00
49) 4-Nitrophenol-d4	12.958	143	177725	29.76	ng/ul	0.00
55) Fluorene-d10	13.745	176	724606	30.75	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.910	200	142183	16.09	ng/ul	0.00
68) Anthracene-d10	15.863	188	1083602	26.51	ng/ul	0.00
74) Pyrene-d10	18.712	212	1227685	47.06	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.806	264	1035994	32.98	ng/ul	-0.01
Target Compounds						Qvalue
4) Phenol	6.075	94	12740	1.03	ng/ul	94
12) Acetophenone	7.406	105	29376	1.95	ng/ul#	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041330.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.154	52	54	57	rVB2	4748	6940	0.22%	0.017%
2	3.578	88	90	97	rBV2	23975	57681	1.85%	0.141%
3	3.779	105	107	109	rVB2	4157	6844	0.22%	0.017%
4	4.144	134	138	146	rBV	156201	306563	9.81%	0.751%
5	5.958	287	292	295	rVB4	13044	33564	1.07%	0.082%
6	6.052	297	300	306	rVV	846564	1345109	43.03%	3.296%
7	6.146	306	308	315	rVB	503968	909570	29.10%	2.228%
8	6.288	316	320	326	rVB	775927	1313103	42.01%	3.217%
9	6.405	326	330	331	rBV2	3889	9442	0.30%	0.023%
10	6.570	342	344	347	rVB	3678	8009	0.26%	0.020%
11	6.676	350	353	359	rVV	698431	1238972	39.64%	3.035%
12	6.816	363	365	367	rBV	8345	13448	0.43%	0.033%
13	6.934	372	375	376	rBV2	5307	9231	0.30%	0.023%
14	6.970	376	378	383	rVB2	11447	23381	0.75%	0.057%
15	7.382	410	413	419	rBV2	1001096	1515007	48.47%	3.712%
16	7.689	435	439	442	rBV	993796	1407459	45.03%	3.448%
17	7.911	455	458	460	rVB3	8055	14963	0.48%	0.037%
18	8.228	482	485	487	rBV2	4079	7604	0.24%	0.019%
19	8.311	488	492	495	rBV	906948	1296919	41.49%	3.177%
20	8.534	507	511	517	rBV2	22896	43992	1.41%	0.108%
21	8.629	517	519	522	rVB	13950	20162	0.65%	0.049%
22	8.722	522	527	529	rBV3	4008	8316	0.27%	0.020%
23	8.781	529	532	535	rBV	1202504	1675344	53.60%	4.105%
24	9.075	554	557	560	rBV	1012946	1430250	45.76%	3.504%
25	9.217	566	569	574	rBV	708166	1046341	33.47%	2.564%
26	9.594	599	601	604	rBV2	3968	9931	0.32%	0.024%
27	9.771	613	616	621	rVB4	7081	19989	0.64%	0.049%
28	9.853	621	623	627	rBV2	3621	9472	0.30%	0.023%
29	10.429	667	672	675	rBV2	13153	25278	0.81%	0.062%
30	11.053	722	725	729	rBV3	10572	24464	0.78%	0.060%
31	11.311	743	747	750	rBV	15779	31257	1.00%	0.077%
32	12.110	811	815	817	rBV	1590460	2282363	73.02%	5.592%
33	12.145	817	818	822	rVB2	30741	44165	1.41%	0.108%
34	12.332	830	834	837	rBV	1582366	2480188	79.35%	6.076%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.533	848	851	857	rVB3	10729	30330	0.97%	0.074%
36	12.663	858	862	865	rBV	1149617	1771882	56.69%	4.341%
37	12.958	883	887	892	rBV	905340	1437417	45.99%	3.522%
38	13.086	896	898	901	rVV3	17535	29706	0.95%	0.073%
39	13.156	901	904	907	rVV2	35814	57708	1.85%	0.141%
40	13.227	907	910	912	rVB3	7726	13206	0.42%	0.032%
41	13.615	941	943	946	rVB2	13814	23106	0.74%	0.057%
42	13.745	950	954	957	rVV	1646520	2632916	84.23%	6.451%
43	13.910	964	968	971	rBV	526278	919864	29.43%	2.254%
44	14.005	974	976	979	rVB2	18316	26650	0.85%	0.065%
45	14.169	985	990	994	rBV3	5499	17782	0.57%	0.044%
46	14.346	1002	1005	1009	rBV2	13528	26731	0.86%	0.065%
47	14.416	1009	1011	1012	rVB	8193	10667	0.34%	0.026%
48	14.581	1024	1025	1028	rBV	4029	8497	0.27%	0.021%
49	14.687	1032	1034	1040	rVV3	21352	52820	1.69%	0.129%
50	14.957	1054	1057	1062	rBV	2879	10322	0.33%	0.025%
51	15.111	1062	1070	1071	rBV3	4678	15220	0.49%	0.037%
52	15.169	1071	1075	1078	rBV2	3781	9293	0.30%	0.023%
53	15.276	1082	1084	1087	rBV2	11086	17590	0.56%	0.043%
54	15.488	1099	1102	1108	rVB3	13774	36938	1.18%	0.090%
55	15.581	1108	1110	1112	rBV	6306	11589	0.37%	0.028%
56	15.628	1112	1114	1116	rBV2	24572	32807	1.05%	0.080%
57	15.687	1116	1119	1120	rBV3	10352	18107	0.58%	0.044%
58	15.745	1120	1124	1128	rVB	1220556	1926733	61.64%	4.721%
59	15.863	1130	1134	1137	rBV	1695772	2801167	89.62%	6.863%
60	16.016	1144	1147	1149	rBV3	8704	15532	0.50%	0.038%
61	16.075	1149	1152	1155	rVB	86408	127524	4.08%	0.312%
62	16.404	1178	1180	1182	rBV2	6328	9228	0.30%	0.023%
63	16.522	1185	1190	1193	rVB2	15530	35080	1.12%	0.086%
64	16.733	1206	1208	1212	rVB3	8882	16831	0.54%	0.041%
65	16.886	1219	1221	1225	rVB	4561	10682	0.34%	0.026%
66	17.004	1229	1231	1239	rVV4	29931	65531	2.10%	0.161%
67	17.217	1247	1249	1253	rVB2	4440	10210	0.33%	0.025%
68	17.381	1259	1263	1264	rVB2	5800	10201	0.33%	0.025%
69	17.593	1279	1281	1285	rVB3	7733	19390	0.62%	0.048%
70	17.935	1309	1310	1312	rBV2	5012	7977	0.26%	0.020%
71	18.193	1325	1332	1338	rBV6	31185	121208	3.88%	0.297%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

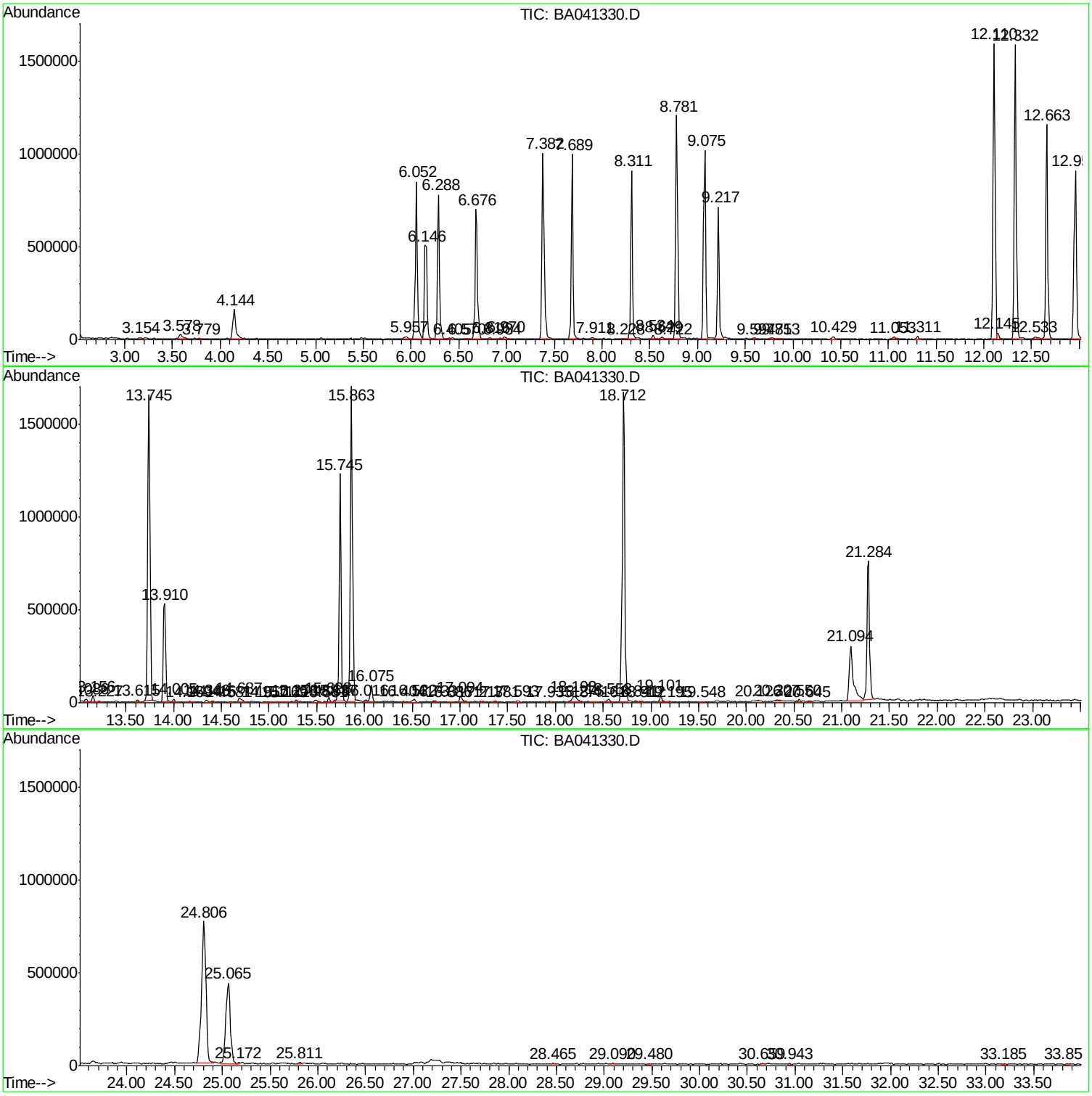
72	18.275	1338	1339	1341	rVB	7130	6519	0.21%	0.016%
73	18.416	1346	1351	1354	rBV3	3857	11491	0.37%	0.028%
74	18.558	1358	1363	1369	rBV3	19112	40355	1.29%	0.099%
75	18.712	1372	1376	1380	rBV	1670573	3125755	100.00%	7.658%
76	18.841	1385	1387	1390	rVB	6906	9229	0.30%	0.023%
77	18.912	1390	1393	1395	rBV3	4486	7584	0.24%	0.019%
78	19.101	1407	1409	1414	rVB	36607	63717	2.04%	0.156%
79	19.195	1414	1417	1419	rBV2	5551	10753	0.34%	0.026%
80	19.548	1443	1447	1448	rBV2	2996	8430	0.27%	0.021%
81	20.126	1494	1496	1498	rVB	6565	7399	0.24%	0.018%
82	20.327	1510	1513	1517	rBV3	6992	18741	0.60%	0.046%
83	20.550	1530	1532	1534	rVB2	10646	13649	0.44%	0.033%
84	20.645	1538	1540	1544	rBV4	4065	11267	0.36%	0.028%
85	21.094	1574	1578	1589	rBV	294788	899251	28.77%	2.203%
86	21.284	1589	1594	1599	rVB	744906	1519941	48.63%	3.724%
87	24.806	1886	1893	1902	rBV	760205	2461131	78.74%	6.030%
88	25.065	1908	1915	1922	rVB	435786	1435250	45.92%	3.516%
89	25.172	1922	1924	1925	rBV	8245	12871	0.41%	0.032%
90	25.811	1976	1978	1980	rBV2	8236	11200	0.36%	0.027%
91	28.465	2201	2203	2206	rBV4	5371	7737	0.25%	0.019%
92	29.090	2254	2256	2259	rBV3	5062	9114	0.29%	0.022%
93	29.480	2285	2289	2290	rBV2	5893	14850	0.48%	0.036%
94	30.659	2387	2389	2391	rBV2	5687	7173	0.23%	0.018%
95	30.943	2411	2413	2415	rVB3	6833	8594	0.27%	0.021%
96	33.185	2601	2603	2606	rVB2	6061	12261	0.39%	0.030%
97	33.858	2656	2660	2662	rBV2	5827	18187	0.58%	0.045%

Sum of corrected areas: 40816212

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

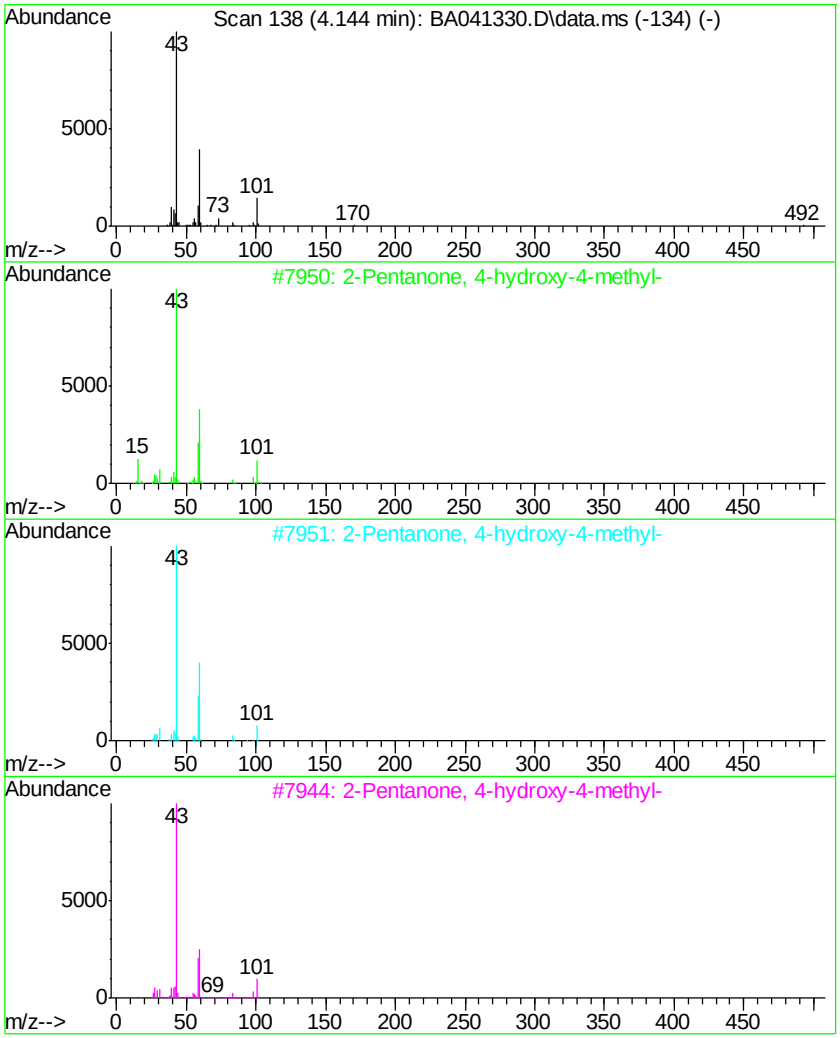
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

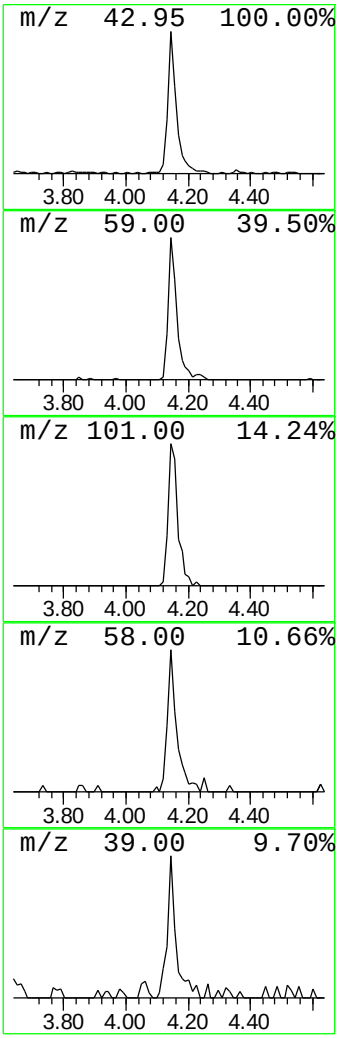
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.140	4.95 ng/ul	306563	1,4-Dichlorobenzene-d4	6.676

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	23
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

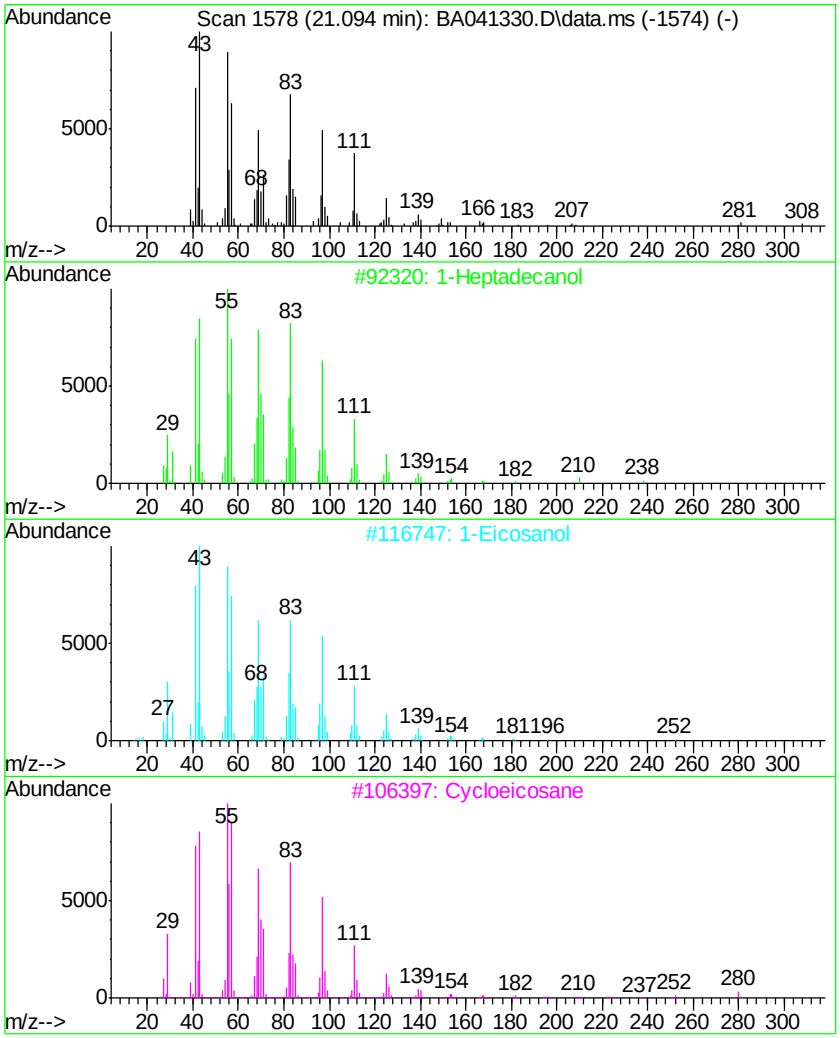
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

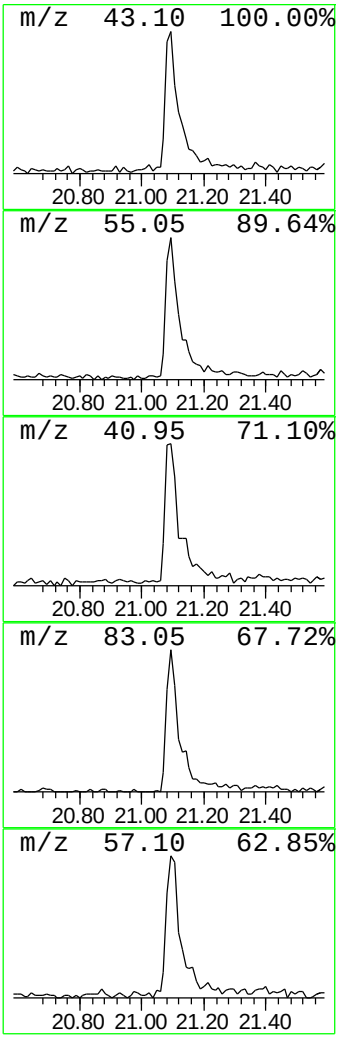
****

Peak Number 2 1-Heptadecanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.090	11.83 ng/ul	899251	Chrysene-d12	21.284

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptadecanol	256	C17H36O	001454-85-9	90
2	1-Eicosanol	298	C20H42O	000629-96-9	87
3	Cycloeicosane	280	C20H40	000296-56-0	86
4	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	81
5	1-Docosene	308	C22H44	001599-67-3	74





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041330.D
Acq On : 20 Oct 2008 20:09
Operator : HNP
Sample : Z4923-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.140	5.0	ng/ul	306563	1	6.676	1238970	20.0
1-Heptadecanol	21.090	11.8	ng/ul	899251	5	21.284	1519940	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK2A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041345.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 20.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 6.45 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	44	J
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK2A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041345.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 20.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 6.45 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	75	J
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	240	
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	81	J
218-01-9	Chrysene	120	J
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	53	J
50-32-8	Benzo(a)pyrene	79	J
193-39-5	Indeno(1,2,3-cd)pyrene	76	J
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	49	J
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BACK2A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041345.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 20.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 6.45 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

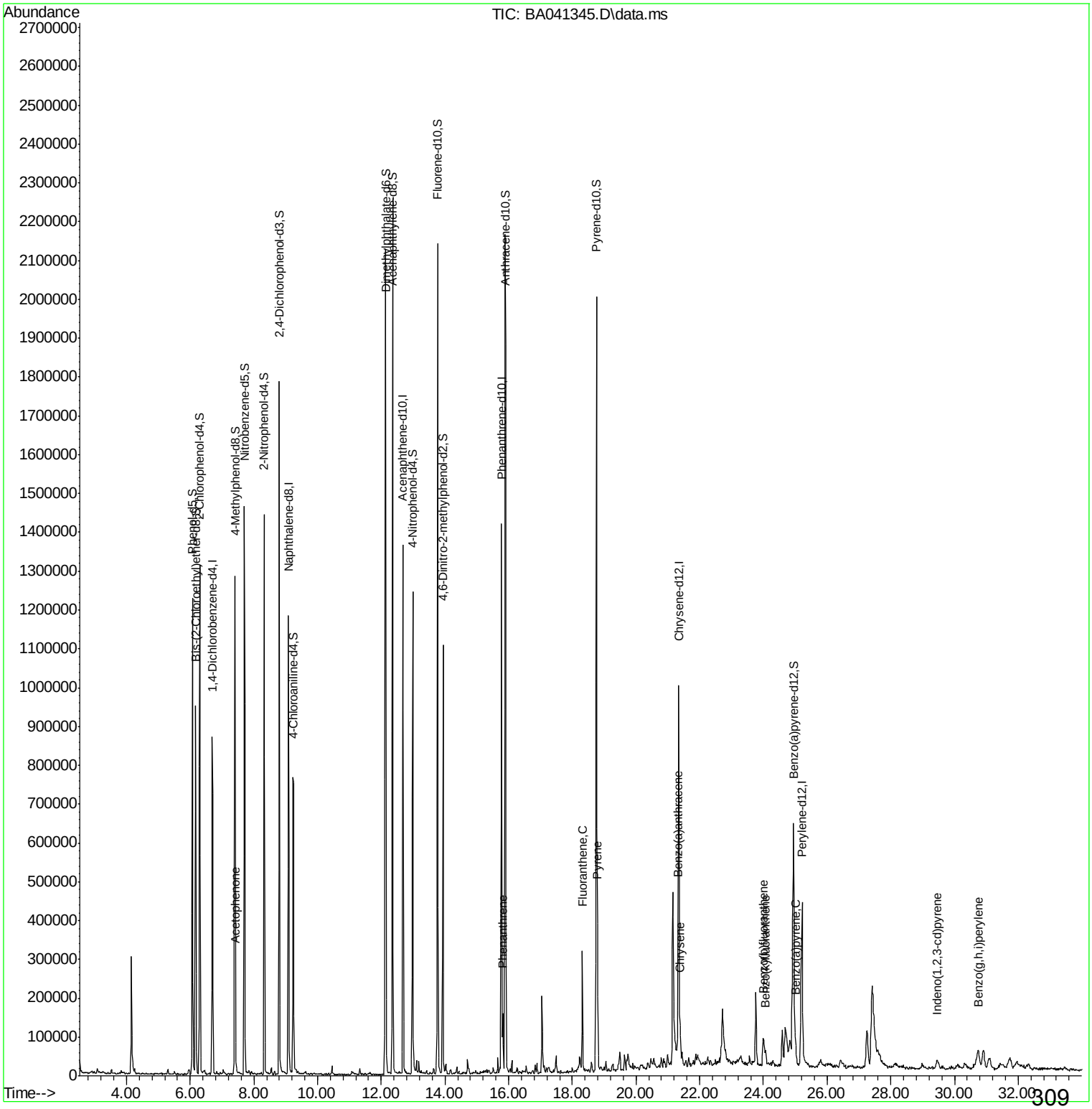
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.15	340	JN
02.	143-07-7	Dodecanoic acid	17.05	120	JN
03.	1599-67-3	1-Docosene	21.15	530	JN
04.	18277-86-6	Chloroacetic acid, tetradecyl e	22.72	250	JN
05.	111-02-4	2,6,10,14,18,22-Tetracosahexaen	23.76	260	JNB
06.	629-92-5	Nonadecane	24.60	150	JN
07.	56221-91-1	13-Tetradecen-1-ol acetate	24.69	220	JN
08.	544-76-3	Hexadecane	27.25	230	JN
09.	506-52-5	1-Hexacosanol	27.42	740	JN
10.		unknown31.74	31.74	100	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

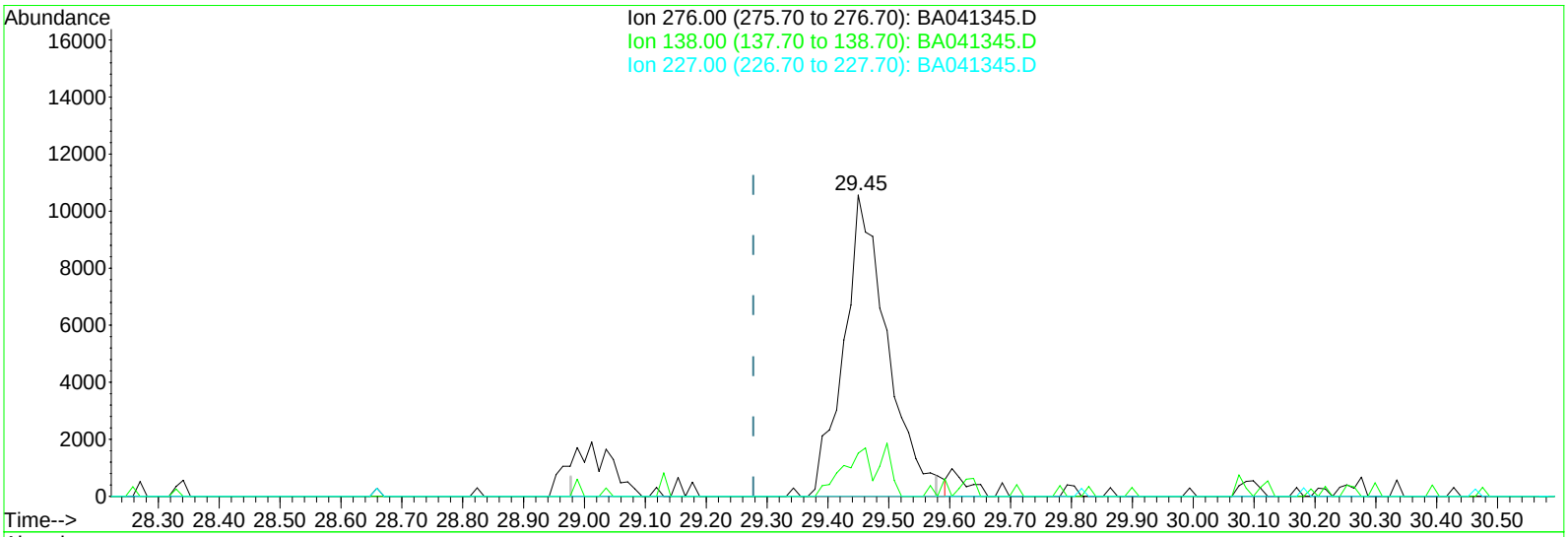
Quant Time: Oct 21 07:34:26 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

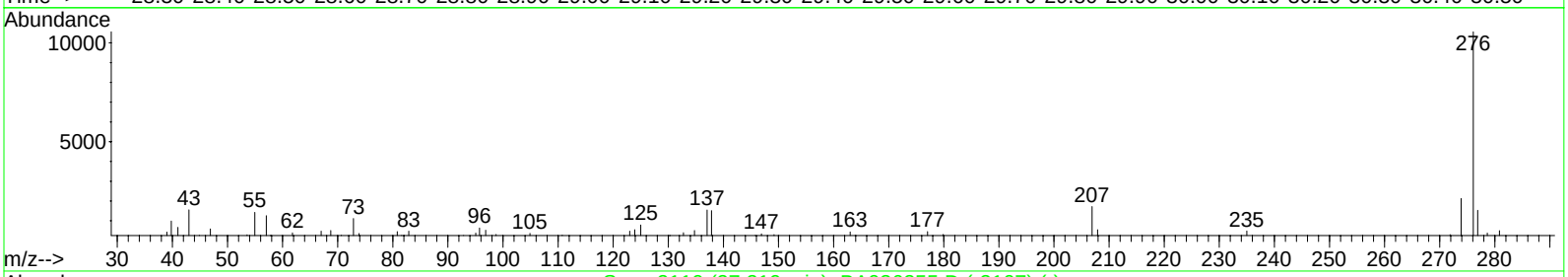


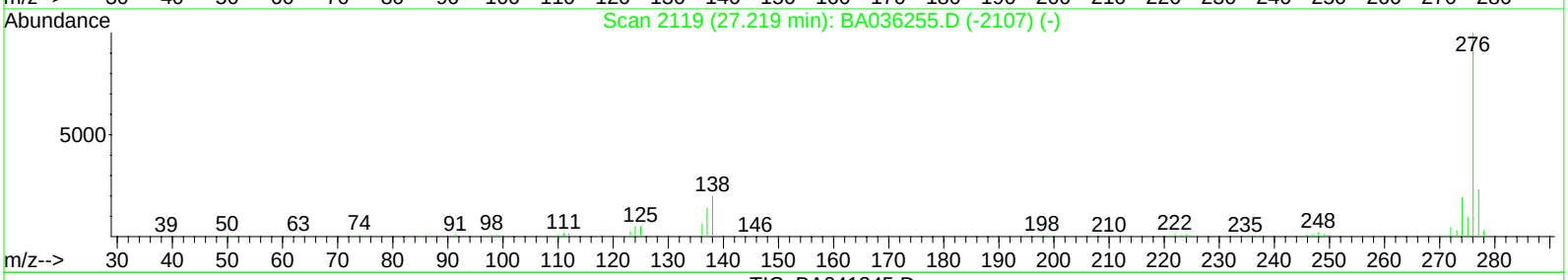
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(87) Indeno(1,2,3-cd)pyrene

29.450min (+0.172) 1.75ng/ul

response 52566

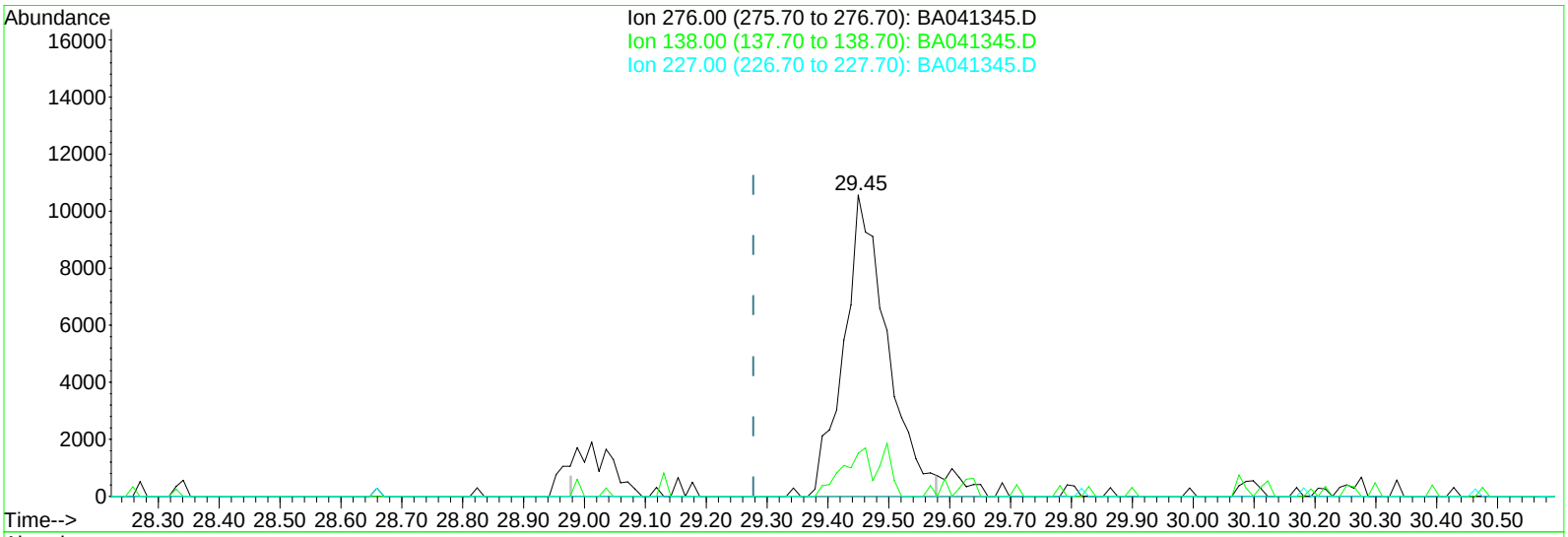
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	14.36#
227.00	0.00	0.00
0.00	0.00	0.00

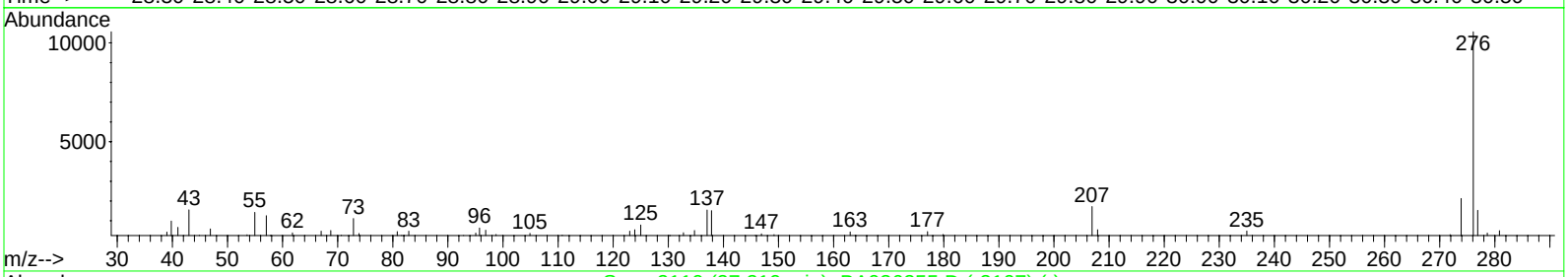
310

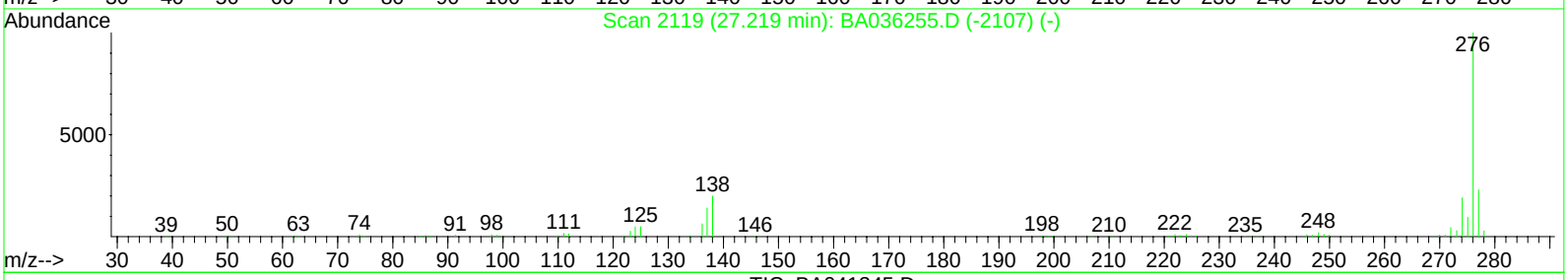
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(87) Indeno(1,2,3-cd)pyrene

29.450min (+0.172) 1.82ng/ul m

response 54559

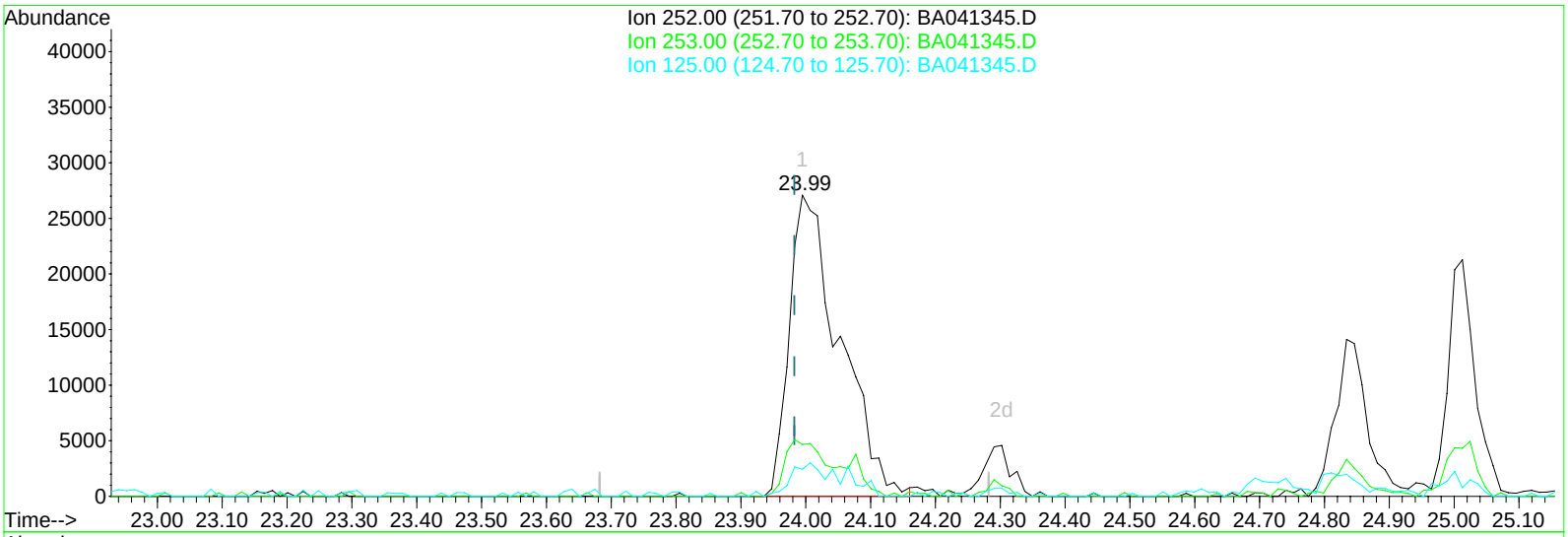
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	14.36#
227.00	0.00	0.00
0.00	0.00	0.00

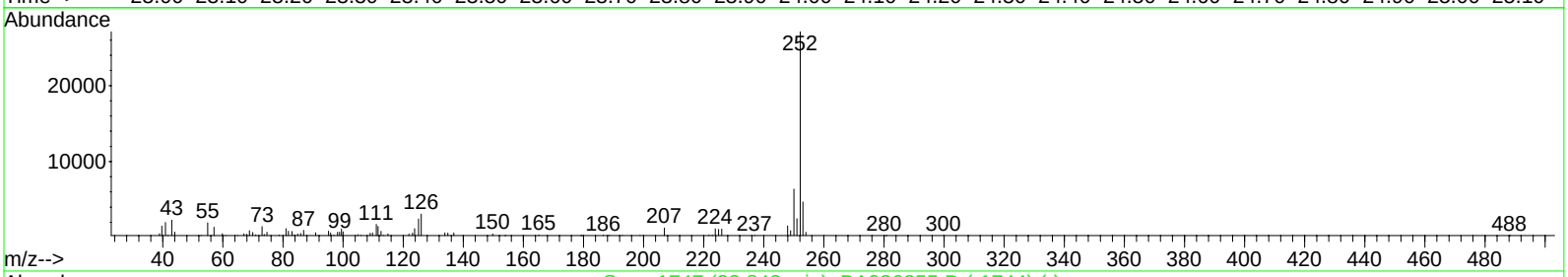
311

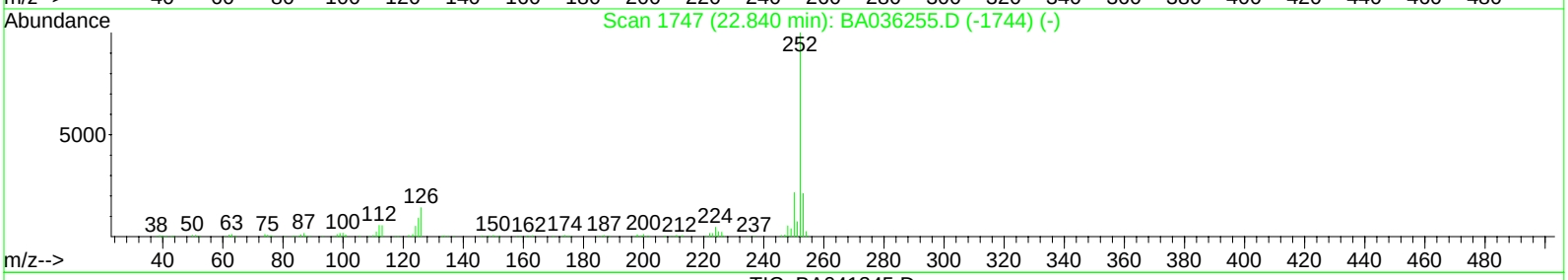
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(84) Benzo(k)fluoranthene

23.995min (+0.013) 4.63ng/ul

response 146523

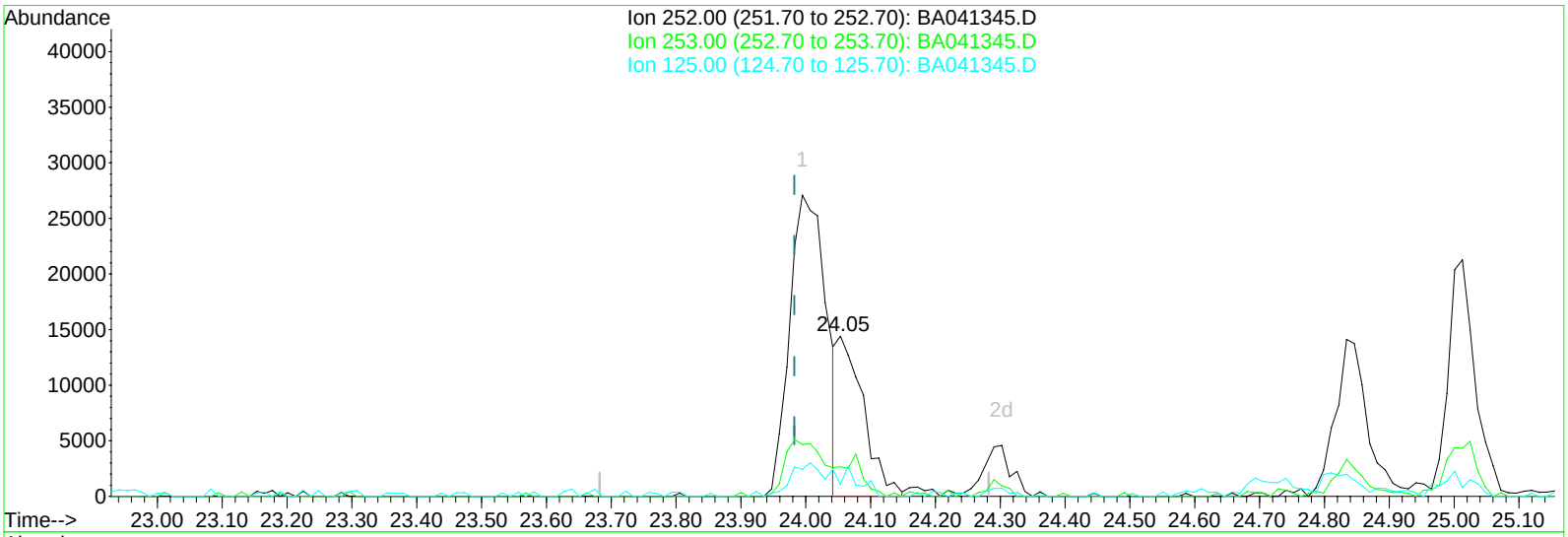
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	17.24#
125.00	4.40	9.00#
0.00	0.00	0.00

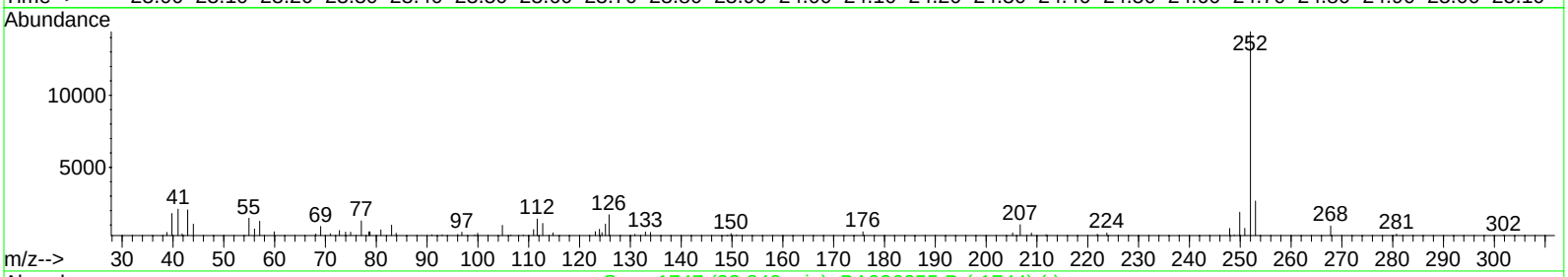
312

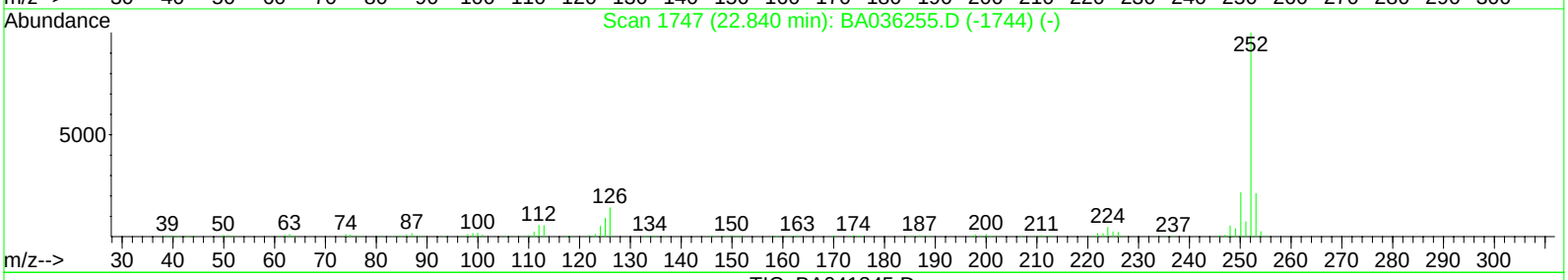
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(84) Benzo(k)fluoranthene

24.053min (+0.071) 1.27ng/ul m

response 40123

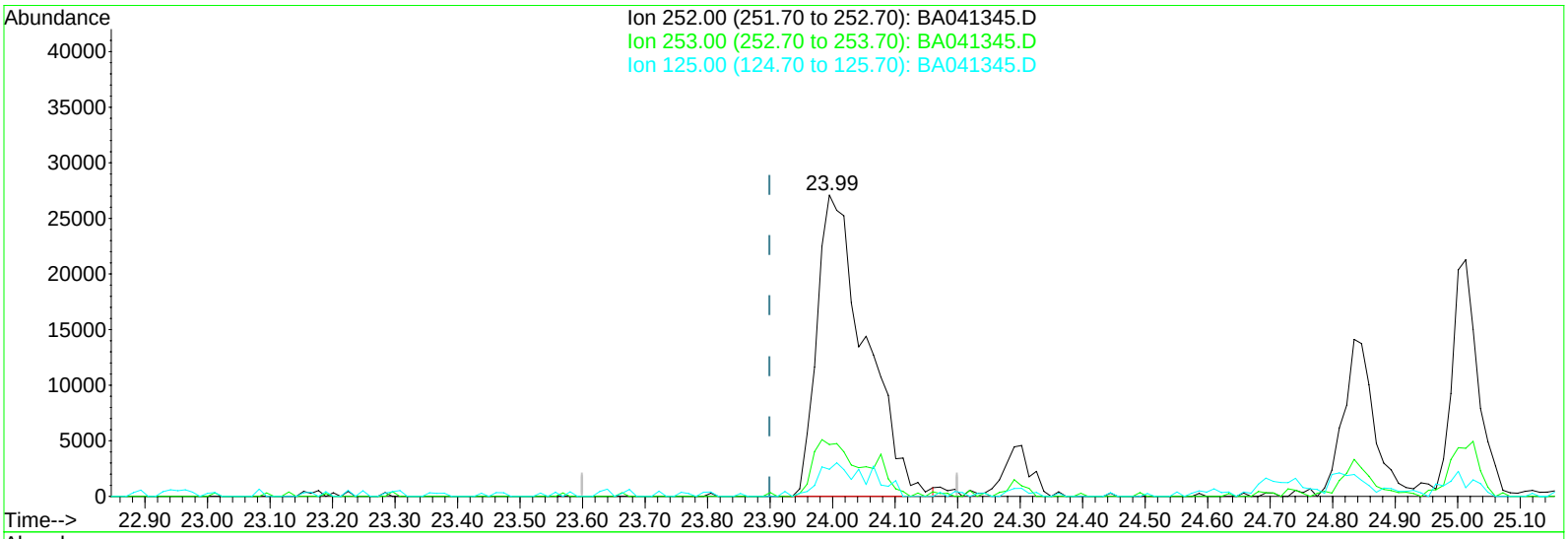
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	18.52
125.00	4.40	7.43#
0.00	0.00	0.00

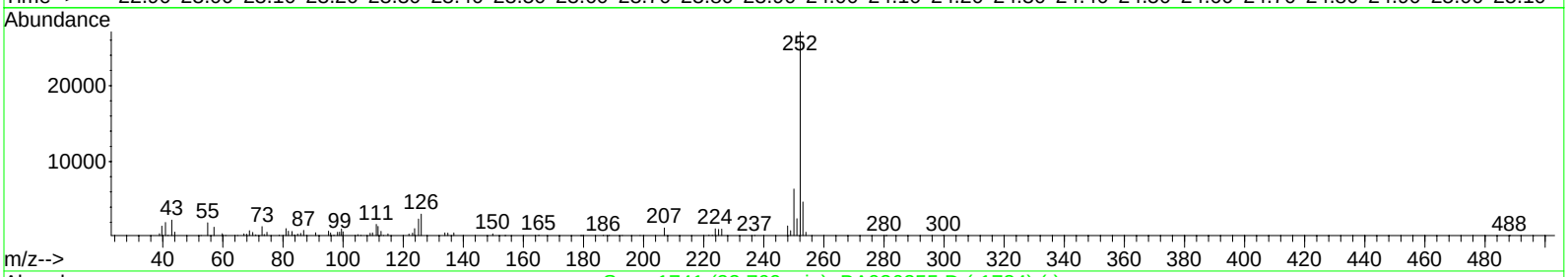
313

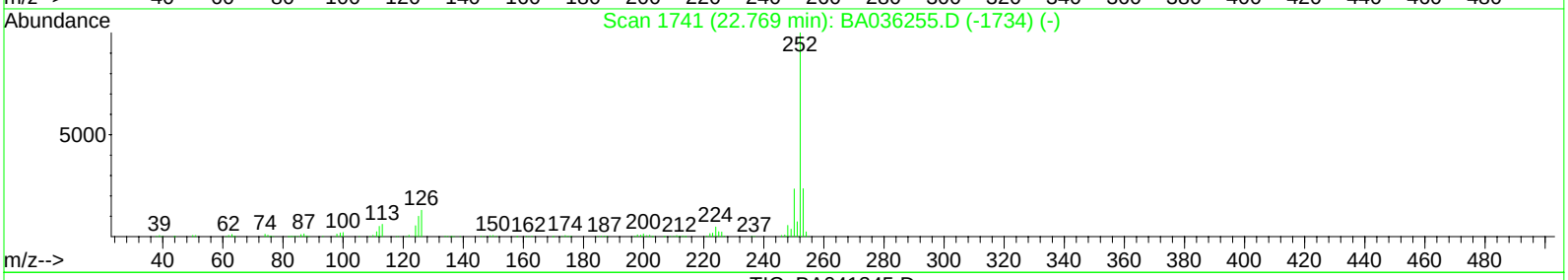
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(83) Benzo(b)fluoranthene

23.995min (+0.096) 3.94ng/ul

response 146523

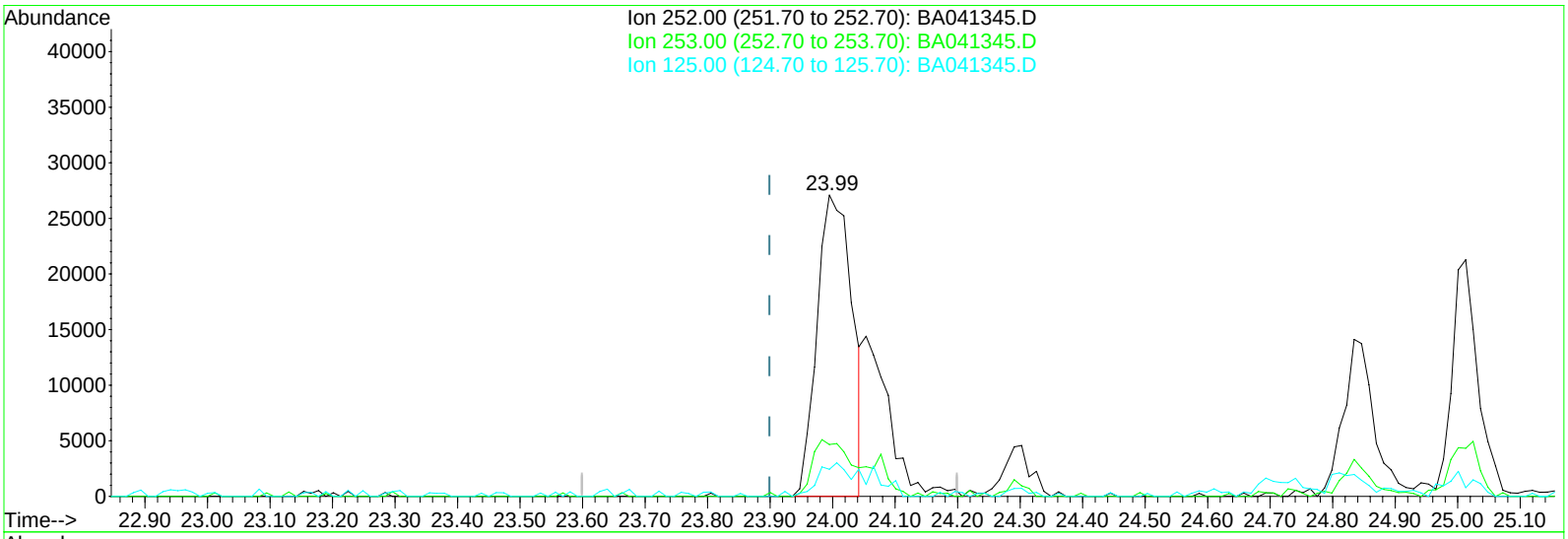
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	17.24
125.00	5.10	9.00#
0.00	0.00	0.00

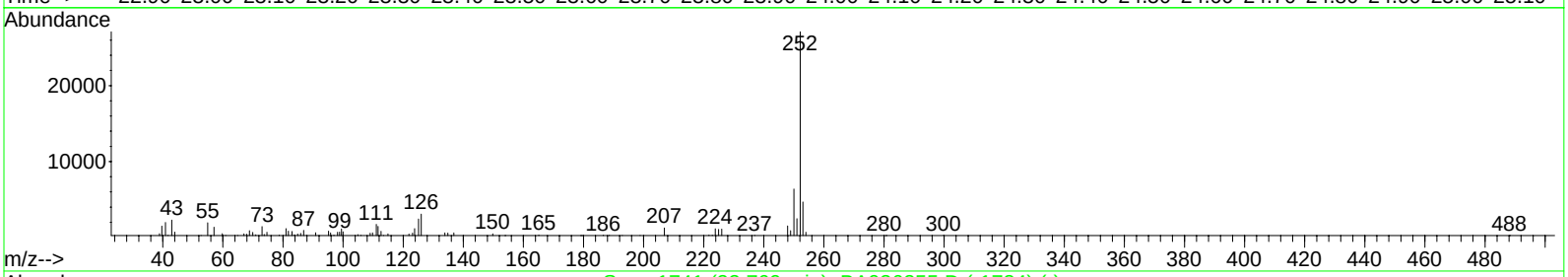
314

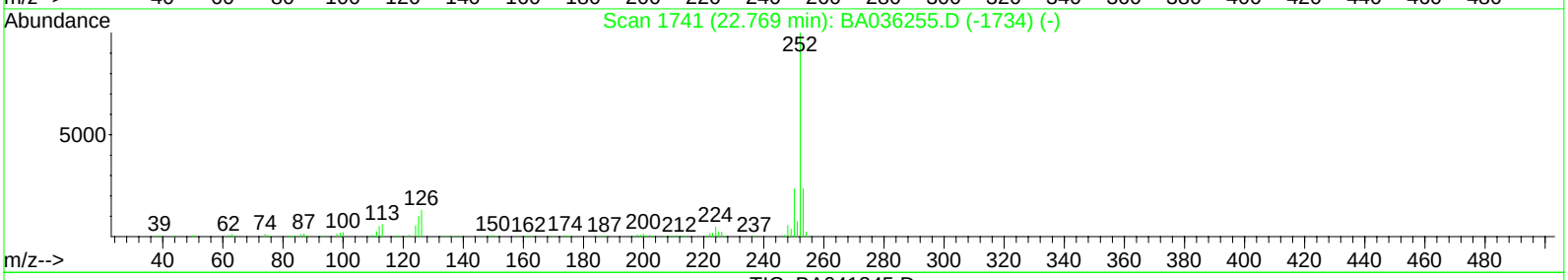
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(83) Benzo(b)fluoranthene

23.995min (+0.096) 2.84ng/ul m

response 105641

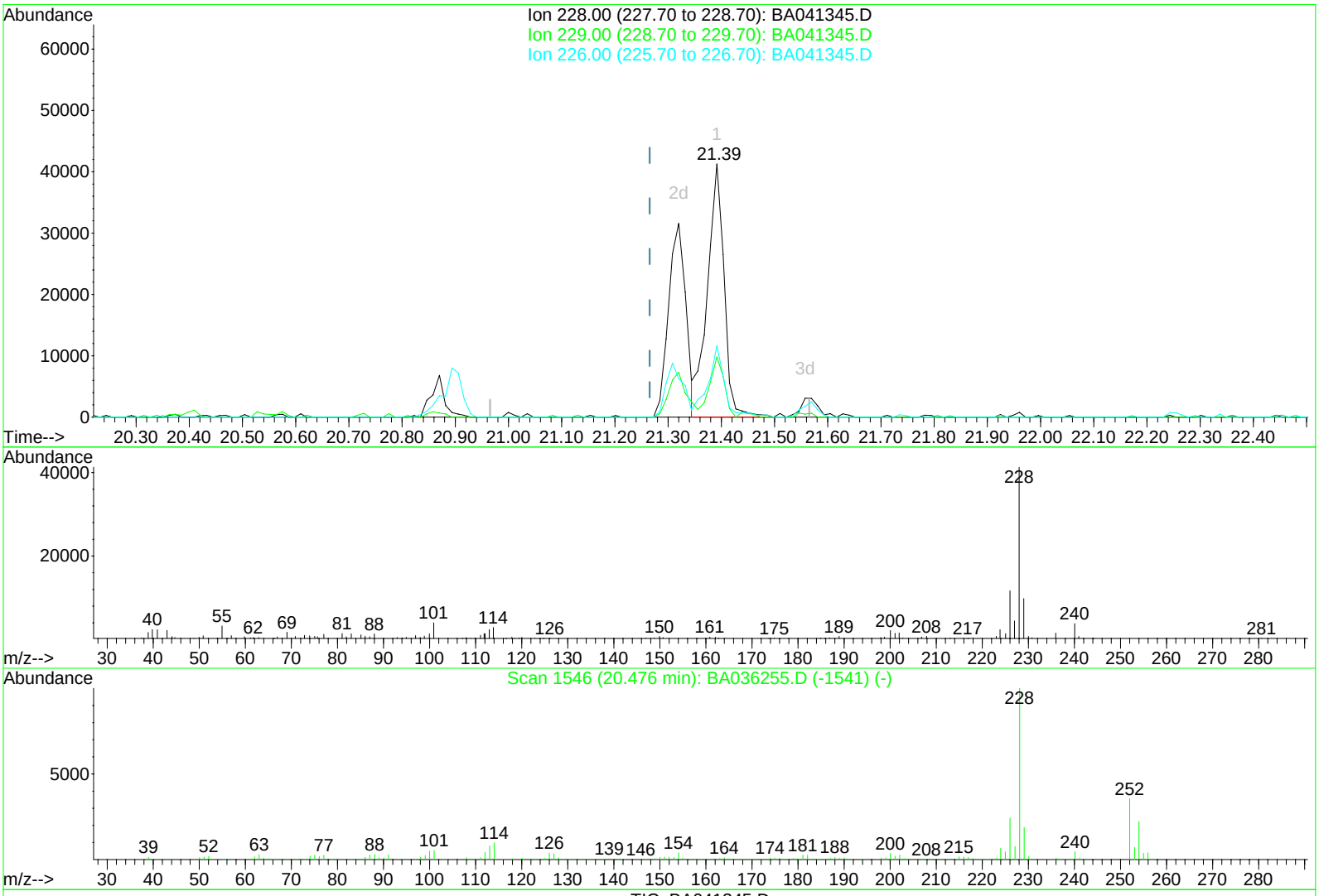
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	17.24
125.00	5.10	9.00#
0.00	0.00	0.00

315

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041345.D

(78) Benzo(a)anthracene

21.392min (+0.126) 2.47ng/ul

response 90248

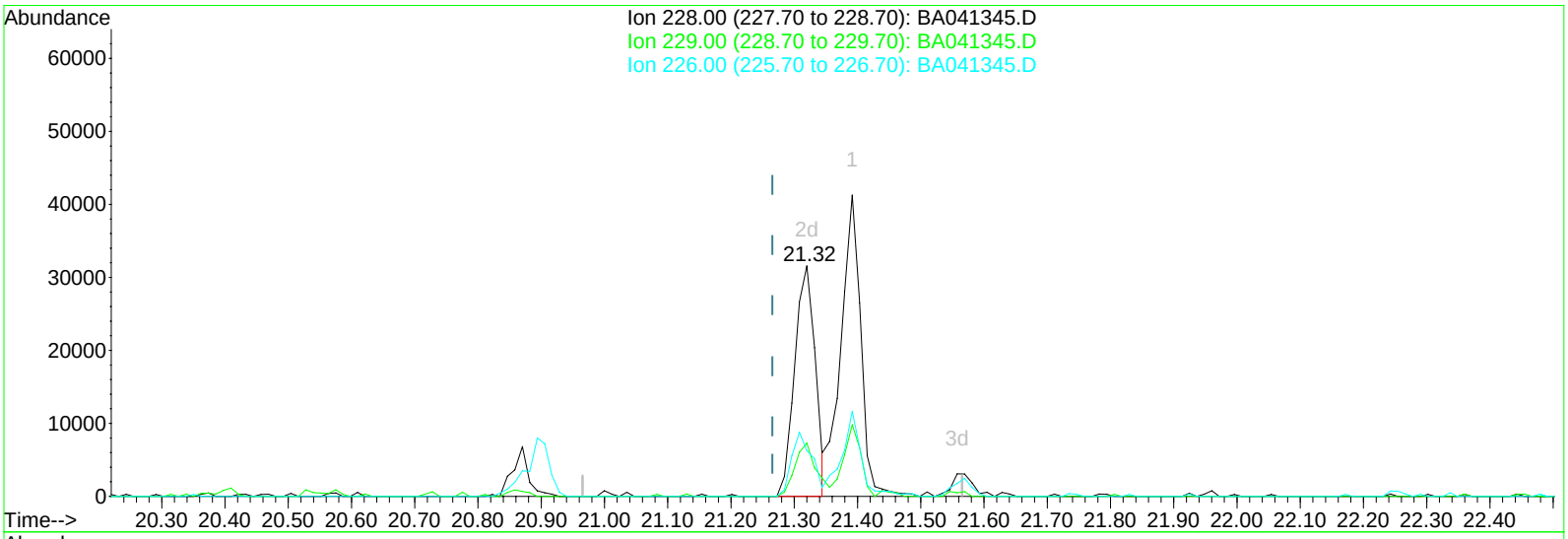
Ion	Exp%	Act%
228.00	100	100
229.00	19.90	23.80
226.00	25.20	28.28
0.00	0.00	0.00

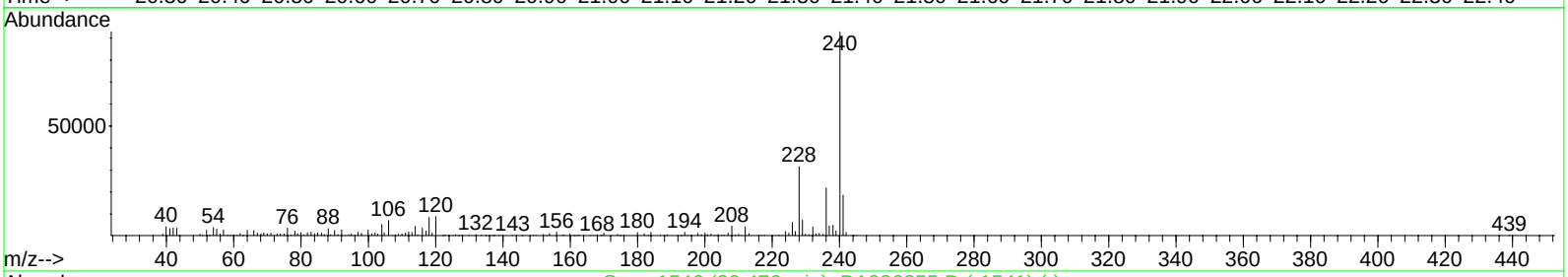
316

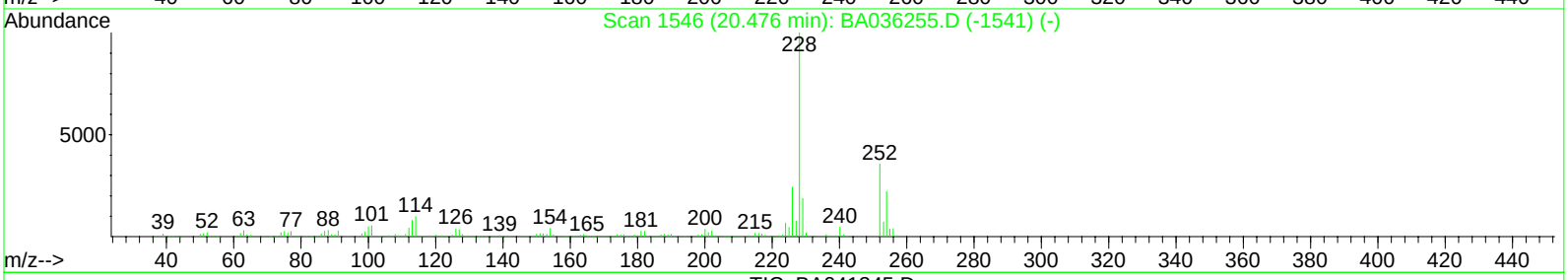
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(78) Benzo(a)anthracene

21.320min (+0.055) 1.95ng/ul m

response 71449

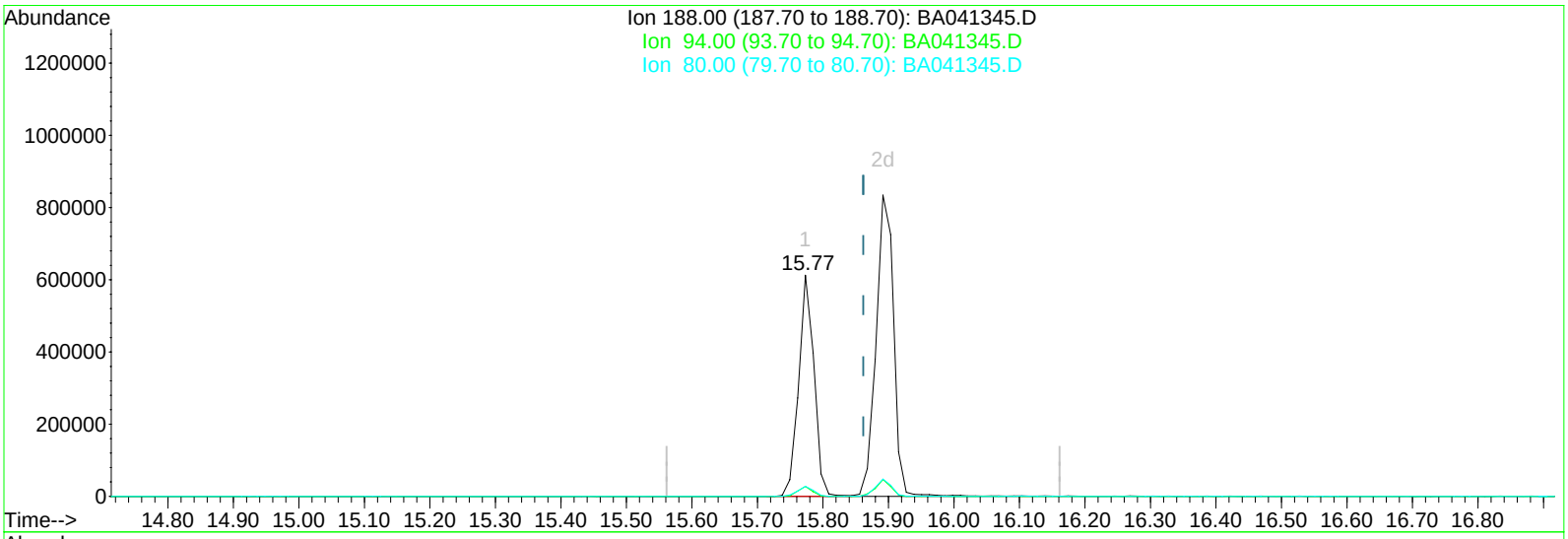
Ion	Exp%	Act%
228.00	100	100
229.00	19.90	23.11
226.00	25.20	19.85#
0.00	0.00	0.00

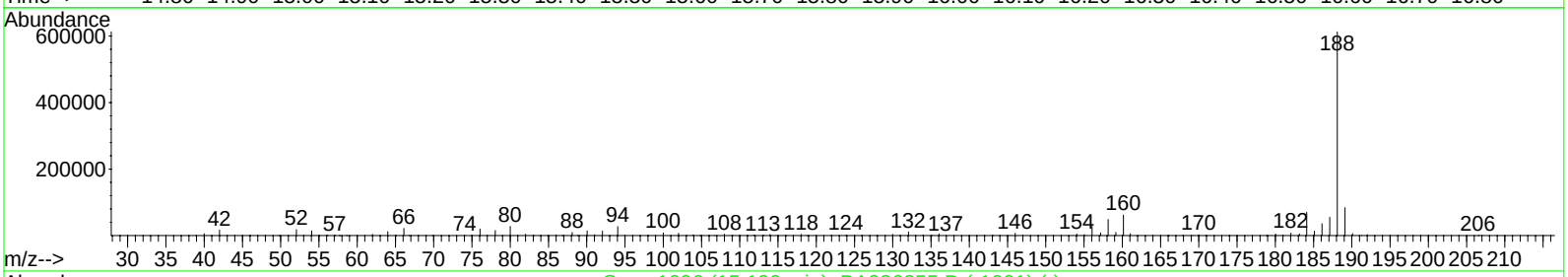
317

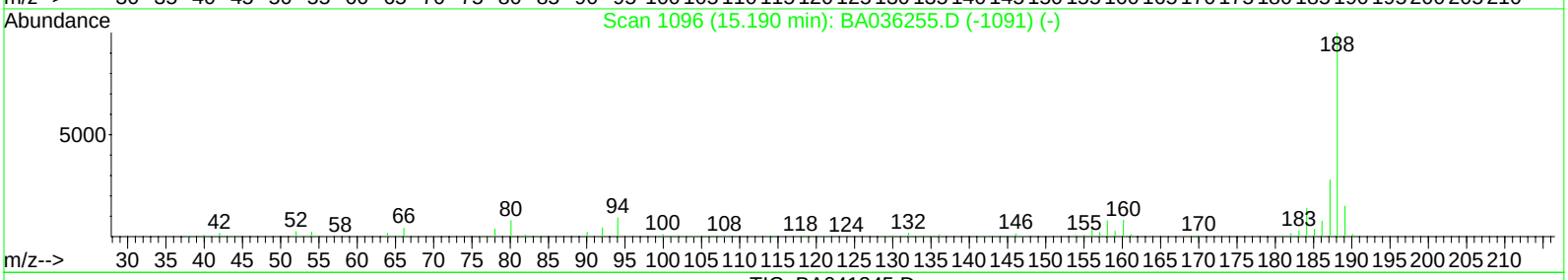
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(68) Anthracene-d10 (S)

15.773min (-0.089) 20.89ng/ul

response 1000939

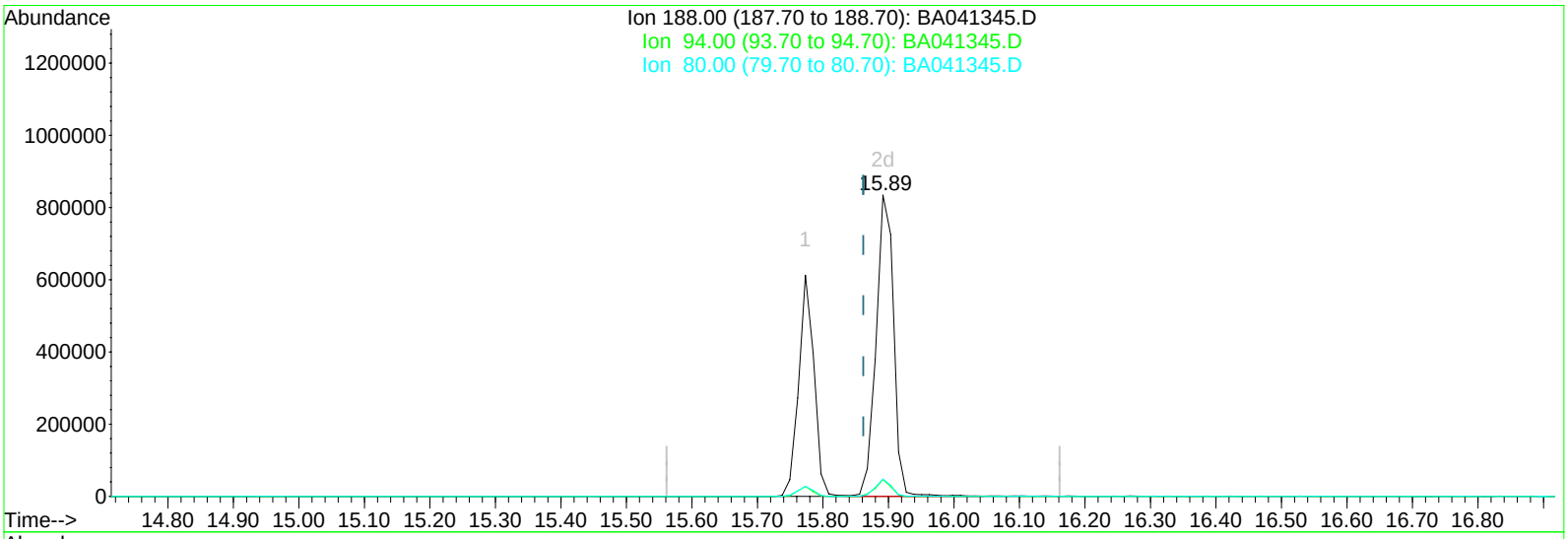
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.48
80.00	4.20	4.53
0.00	0.00	0.00

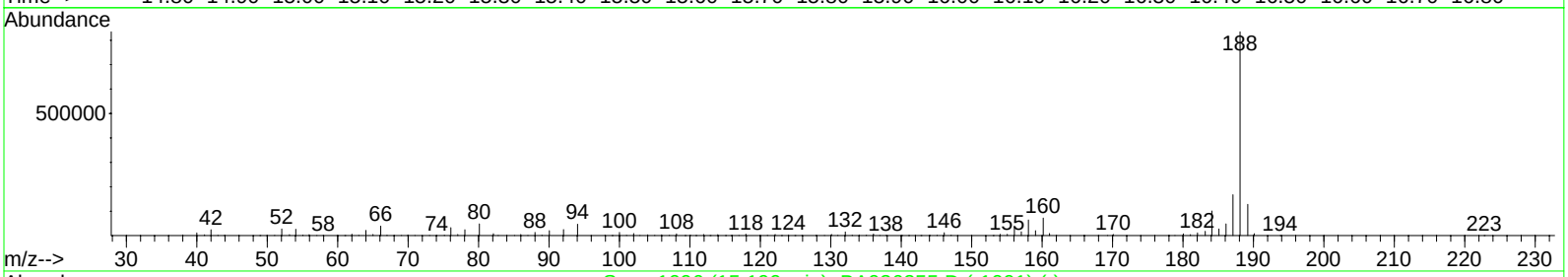
318

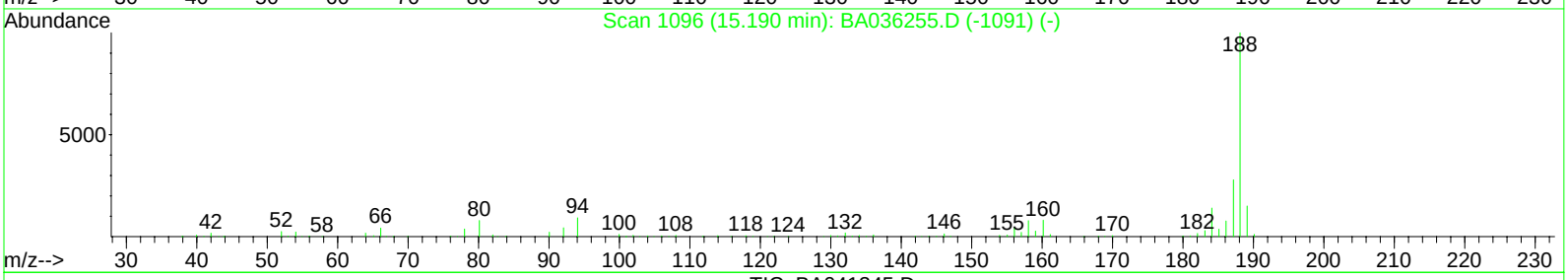
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(68) Anthracene-d10 (S)

15.892min (+0.030) 32.32ng/ul m

response 1548489

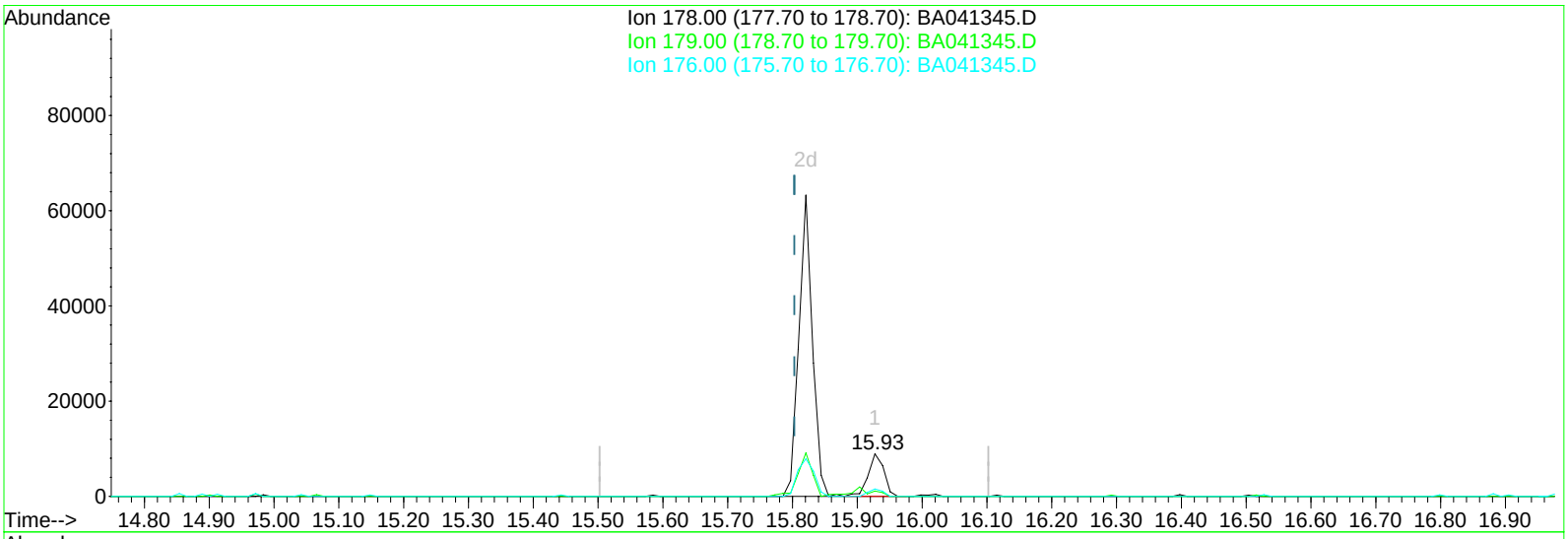
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	5.62#
80.00	4.20	5.74#
0.00	0.00	0.00

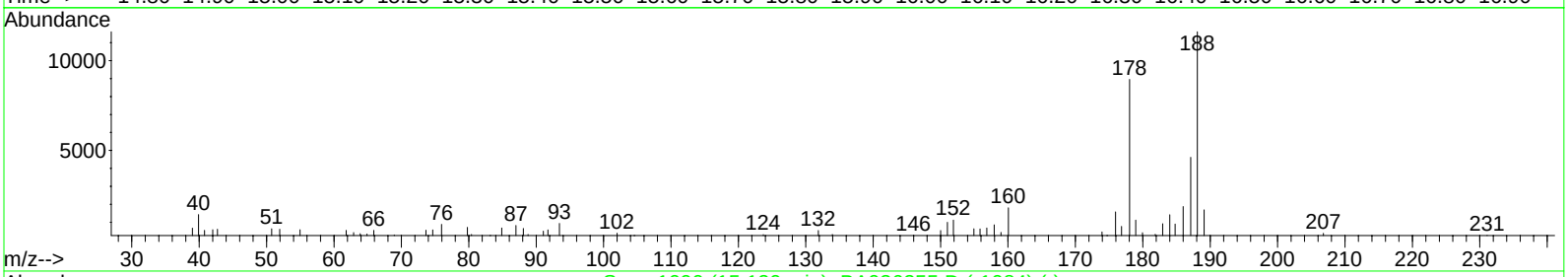
319

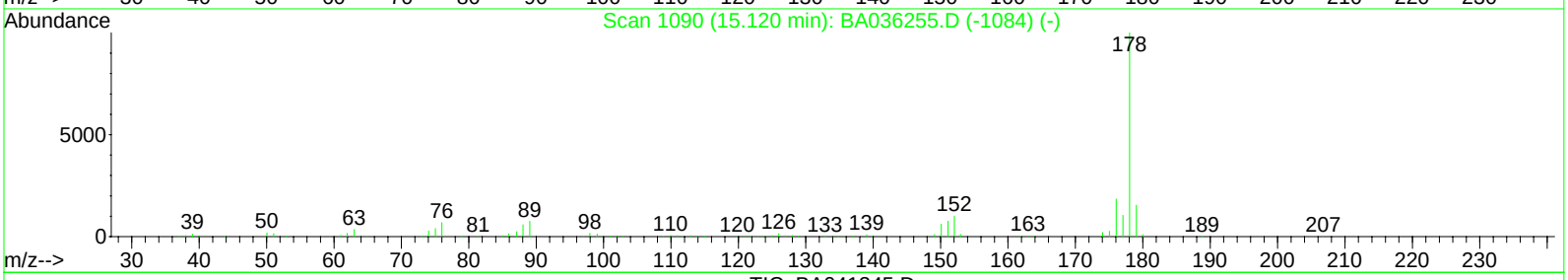
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(67) Phenanthrene

15.927min (+0.125) 0.30ng/ul

response 15168

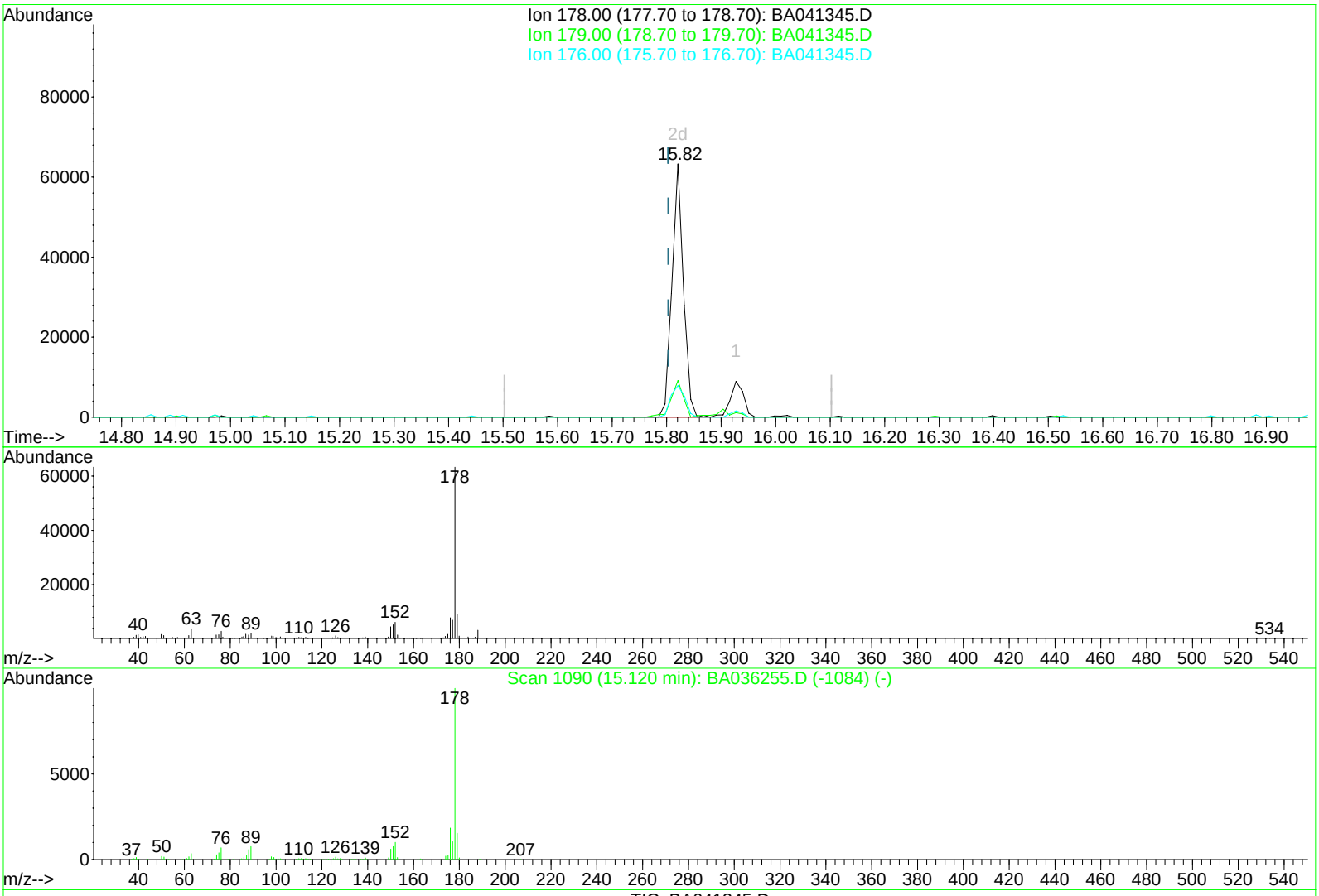
Ion	Exp%	Act%
178.00	100	100
179.00	15.00	12.45
176.00	18.50	17.55
0.00	0.00	0.00

320

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



TIC: BA041345.D

(67) Phenanthrene

15.821min (+0.018) 1.81ng/ul m

response 92641

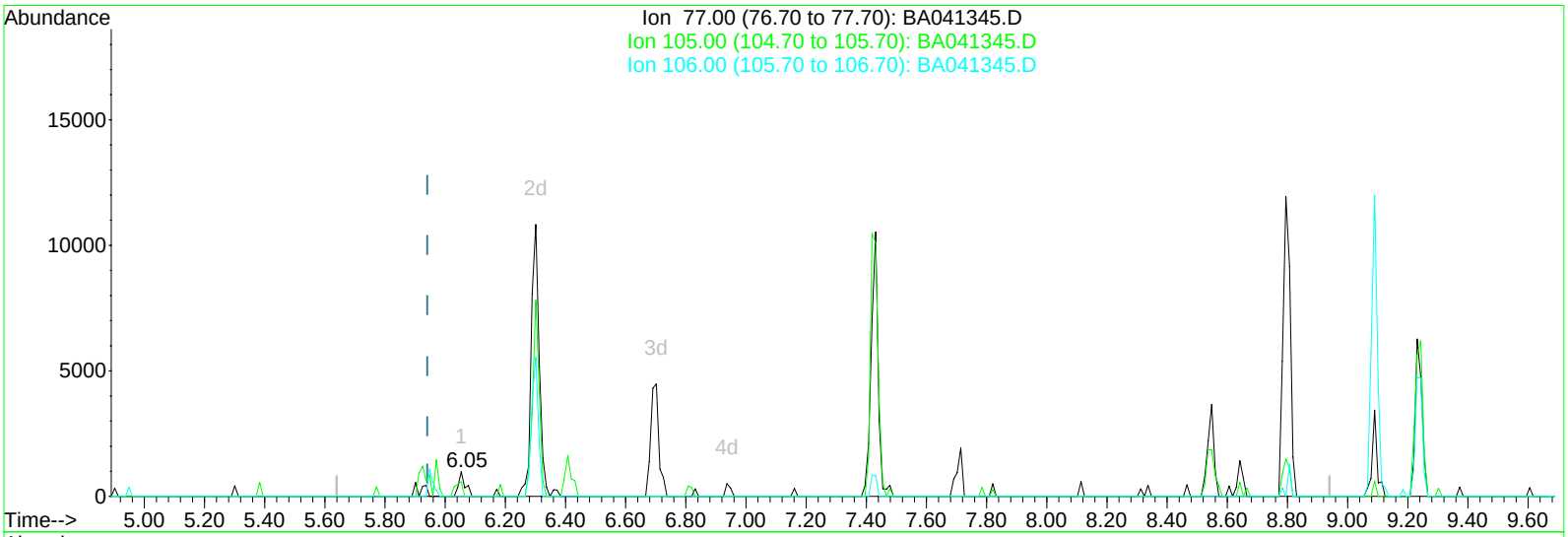
Ion	Exp%	Act%
178.00	100	100
179.00	15.00	14.44
176.00	18.50	12.44#
0.00	0.00	0.00

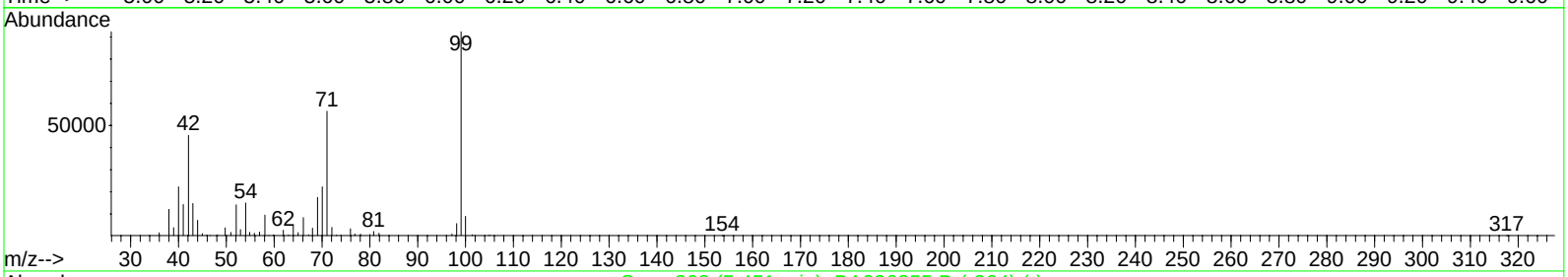
321

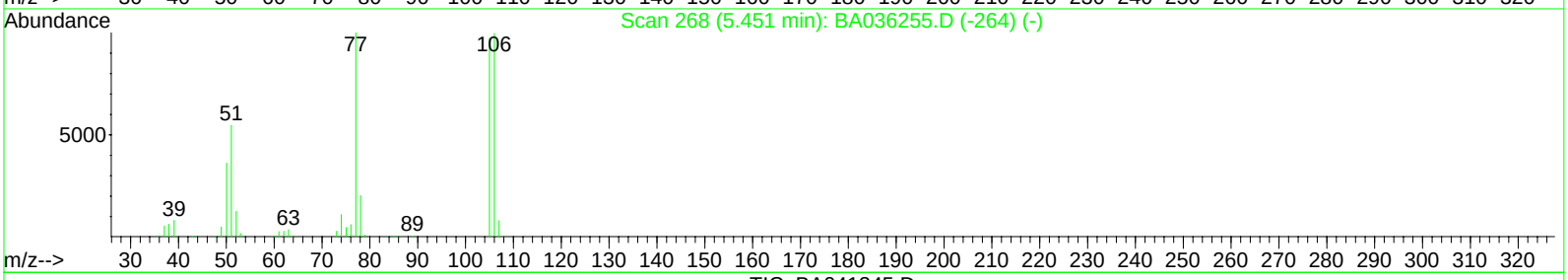
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

(2) Benzaldehyde

6.053min (+0.113) 0.25ng/ul

response 1488

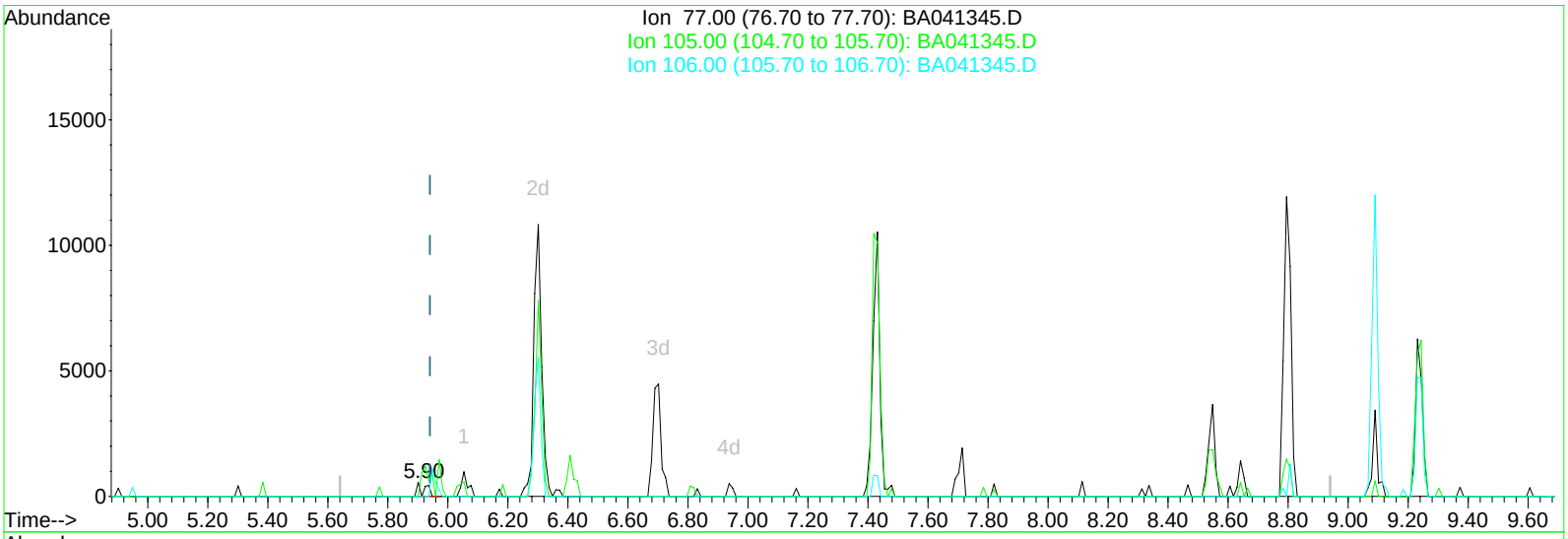
Ion	Exp%	Act%
77.00	100	100
105.00	87.00	59.10#
106.00	84.90	0.00#
0.00	0.00	0.00

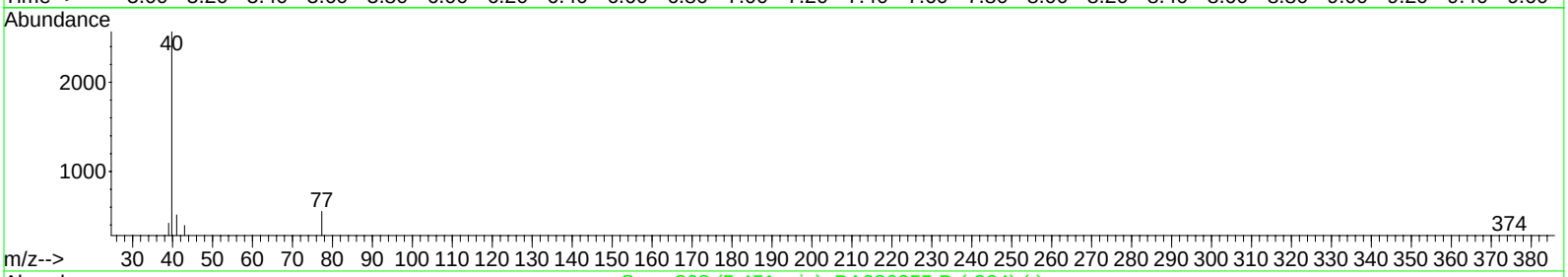
322

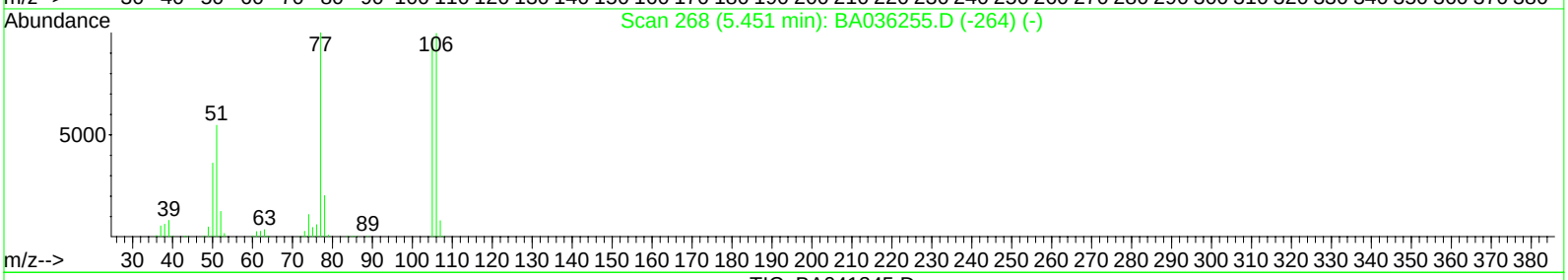
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:28:46 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041345.D

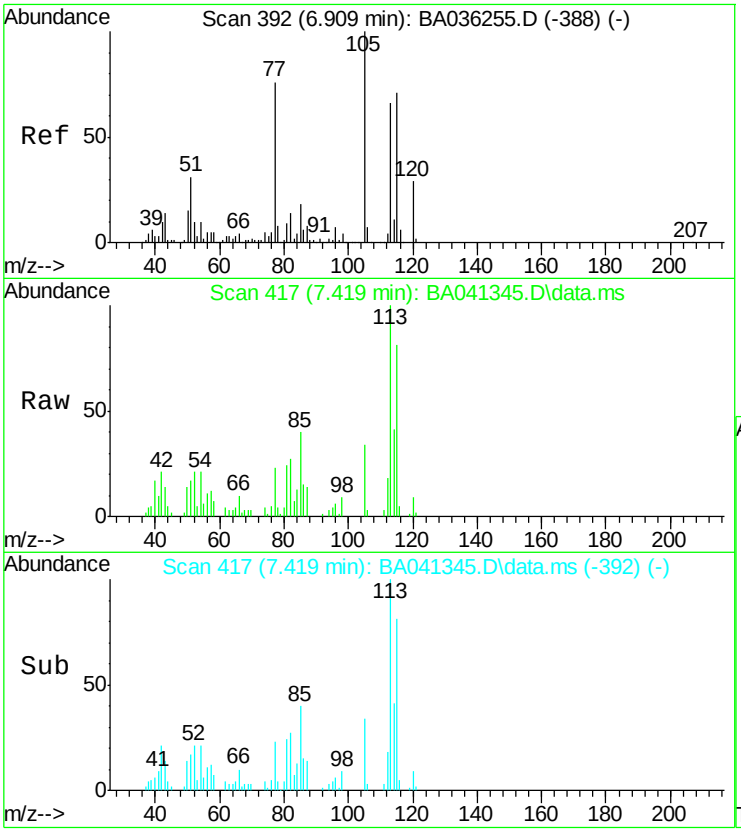
(2) Benzaldehyde

5.901min (-0.039) 0.16ng/ul m

response 975

Ion	Exp%	Act%
77.00	100	100
105.00	87.00	0.00#
106.00	84.90	0.00#
0.00	0.00	0.00

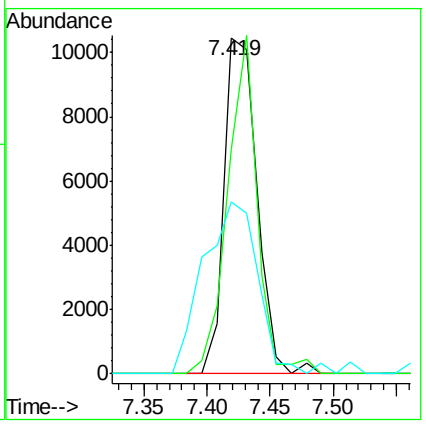
323

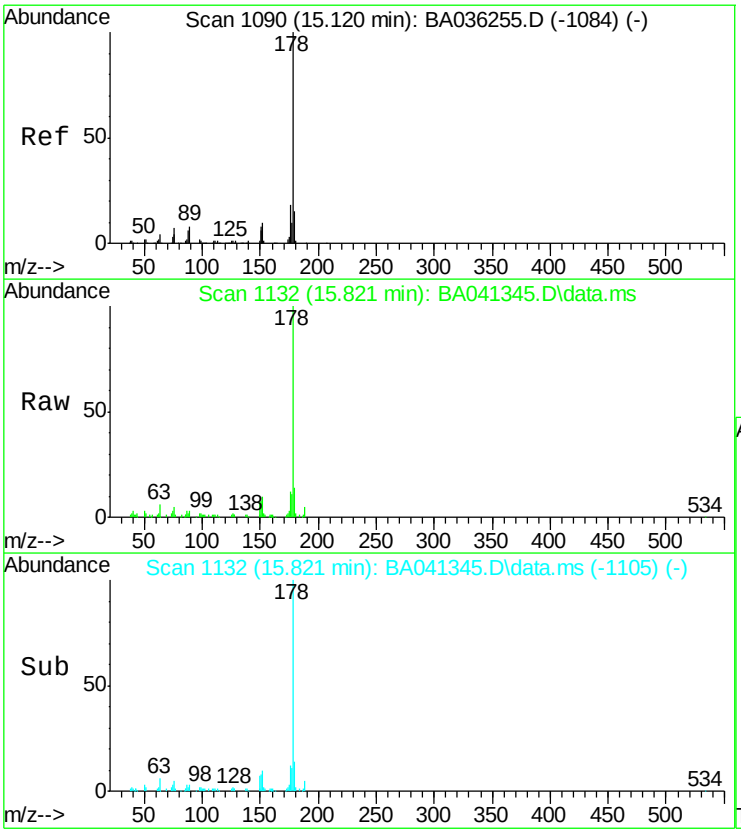


#12
Acetophenone
Concen: 1.06 ng/ul
RT: 7.419 min Scan# 417
Delta R.T. -0.003 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:105 Resp: 18951

Ion	Ratio	Lower	Upper
105	100		
77	66.8	69.4	104.2#
51	51.2	42.1	63.1

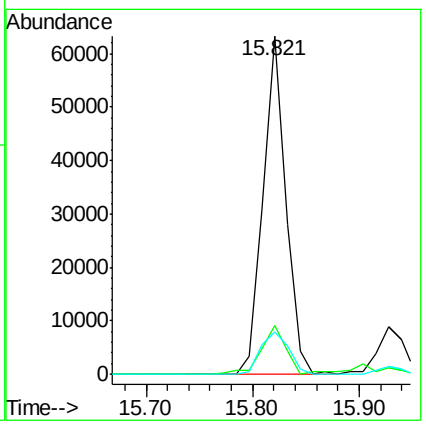


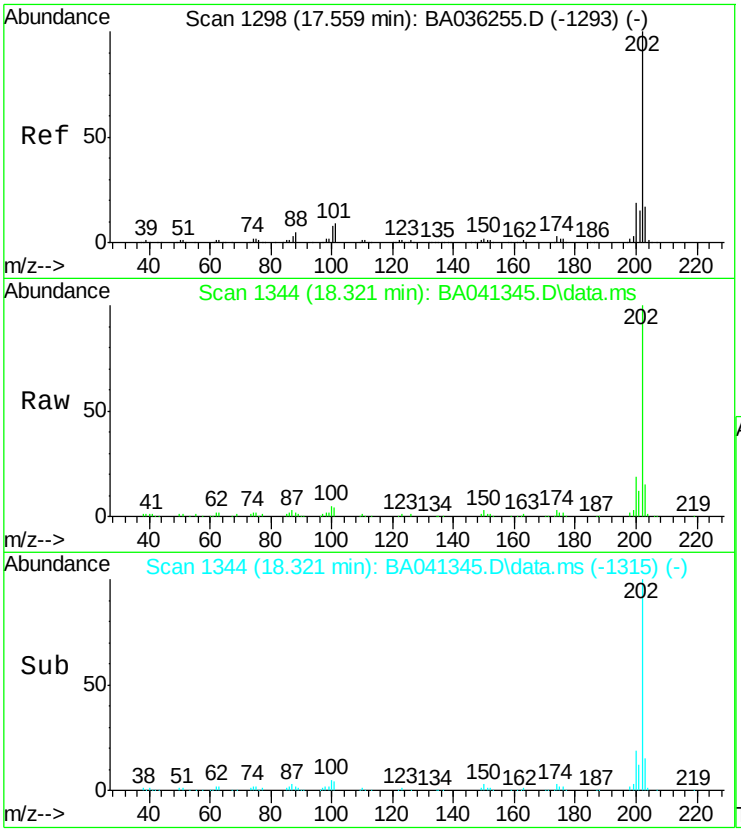


#67
Phenanthrene
Concen: 1.81 ng/ul m
RT: 15.821 min Scan# 1132
Delta R.T. 0.018 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:178 Resp: 92641

Ion	Ratio	Lower	Upper
178	100		
179	14.4	12.0	18.0
176	12.4	14.8	22.2#

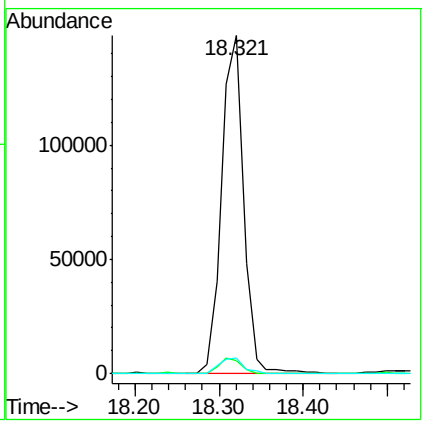


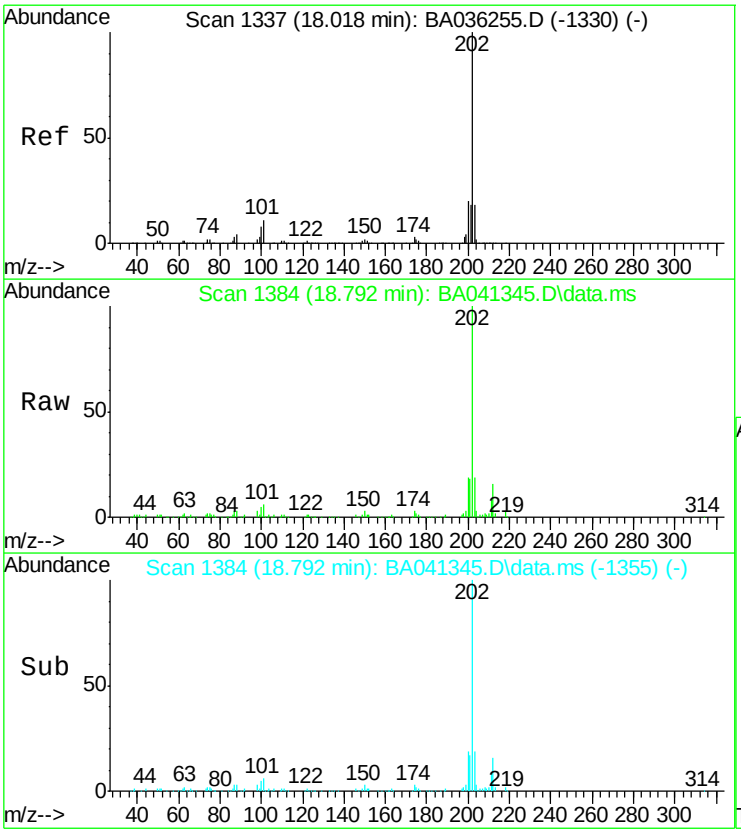


#72
Fluoranthene
Concen: 4.46 ng/ul
RT: 18.321 min Scan# 1344
Delta R.T. 0.036 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:202 Resp: 270509

Ion	Ratio	Lower	Upper
202	100		
101	4.0	2.6	4.0#
100	4.6	2.9	4.3#

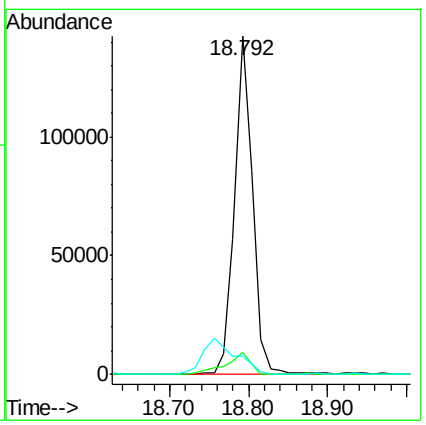


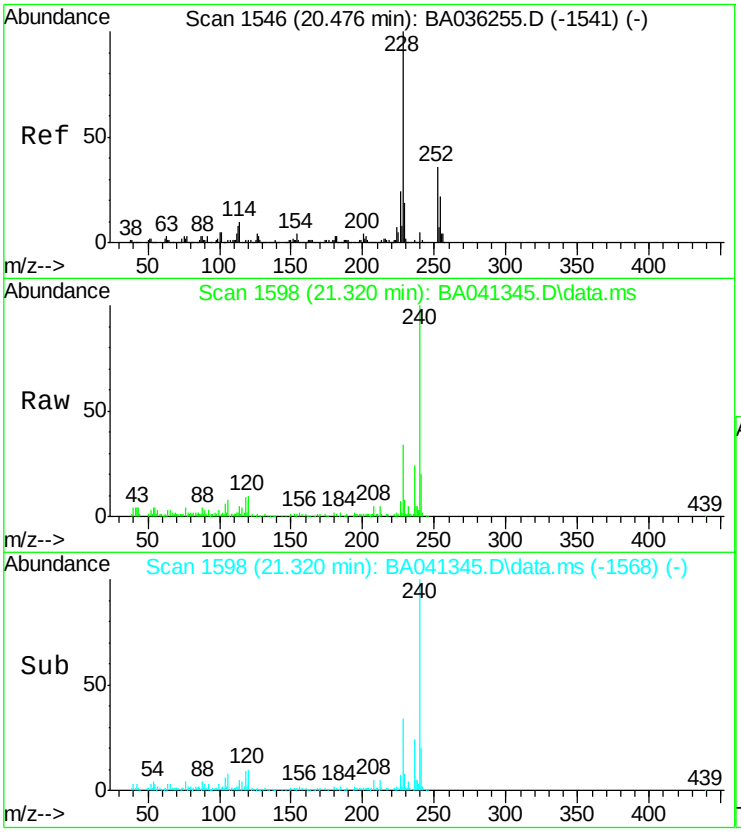


#75
Pyrene
Concen: 5.86 ng/ul
RT: 18.792 min Scan# 1384
Delta R.T. 0.035 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:202 Resp: 224392

Ion	Ratio	Lower	Upper
202	100		
101	6.4	3.5	5.3#
100	5.5	3.4	5.0#

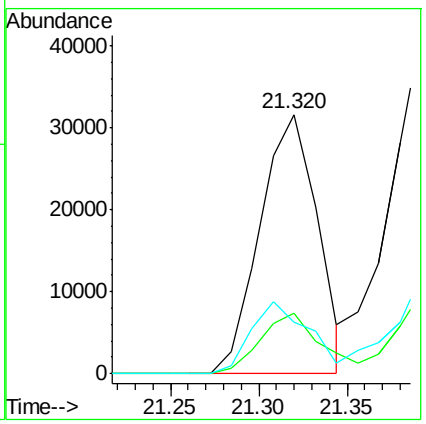


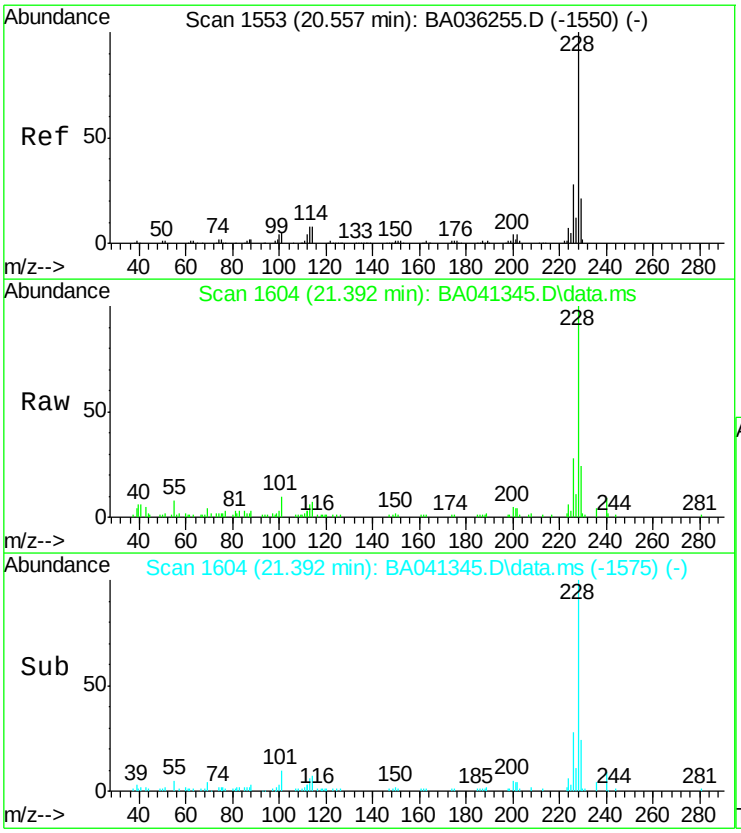


#78
Benzo(a)anthracene
Concen: 1.95 ng/ul m
RT: 21.320 min Scan# 1598
Delta R.T. 0.055 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:228 Resp: 71449

Ion	Ratio	Lower	Upper
228	100		
229	23.1	15.9	23.9
226	19.8	20.2	30.2#

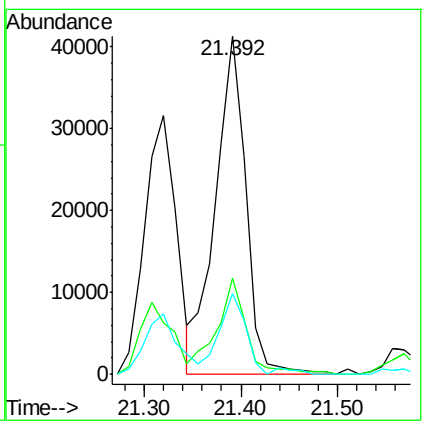


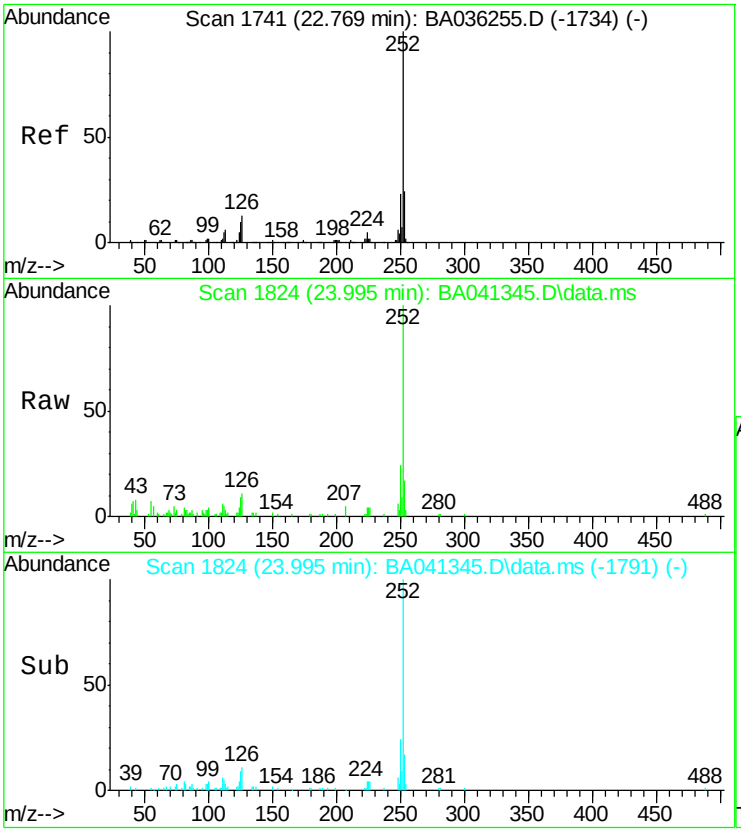


#80
Chrysene
Concen: 2.91 ng/ul
RT: 21.392 min Scan# 1604
Delta R.T. 0.044 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:228 Resp: 90248

Ion	Ratio	Lower	Upper
228	100		
226	28.3	20.6	31.0
229	23.8	14.4	21.6#

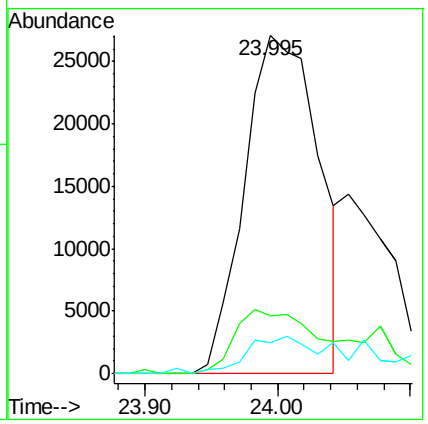


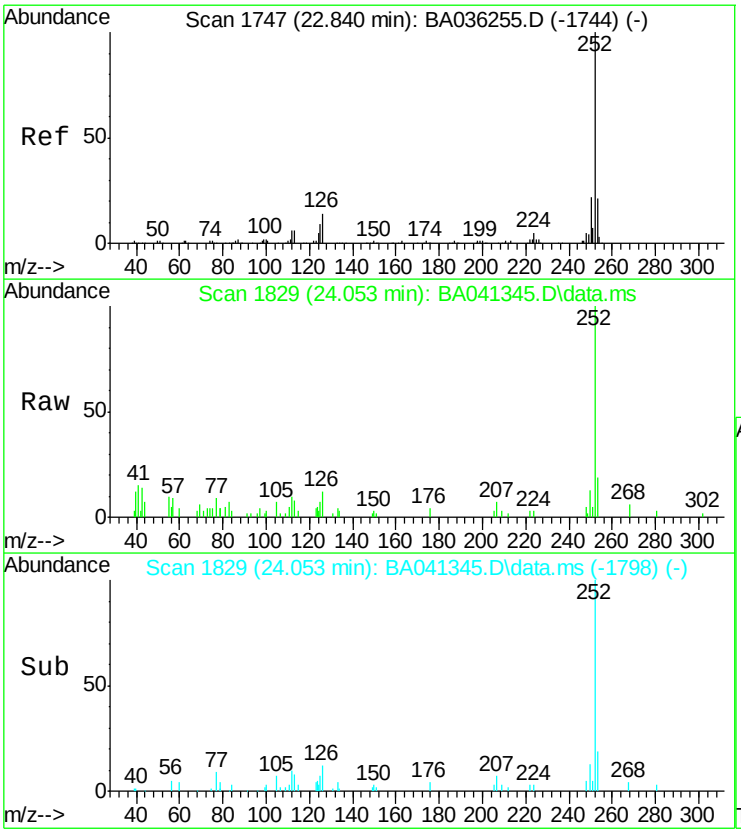


#83
Benzo(b)fluoranthene
Concen: 2.84 ng/ul m
RT: 23.995 min Scan# 1824
Delta R.T. 0.096 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:252 Resp: 105641

Ion	Ratio	Lower	Upper
252	100		
253	17.2	16.2	24.2
125	9.0	4.1	6.1#

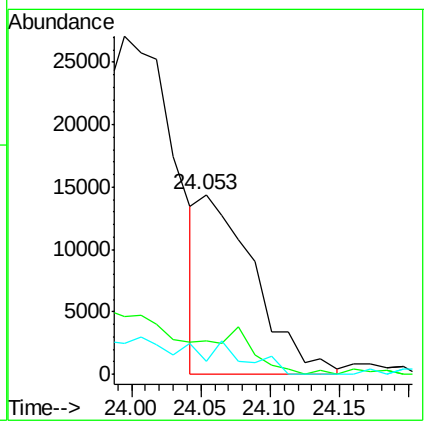


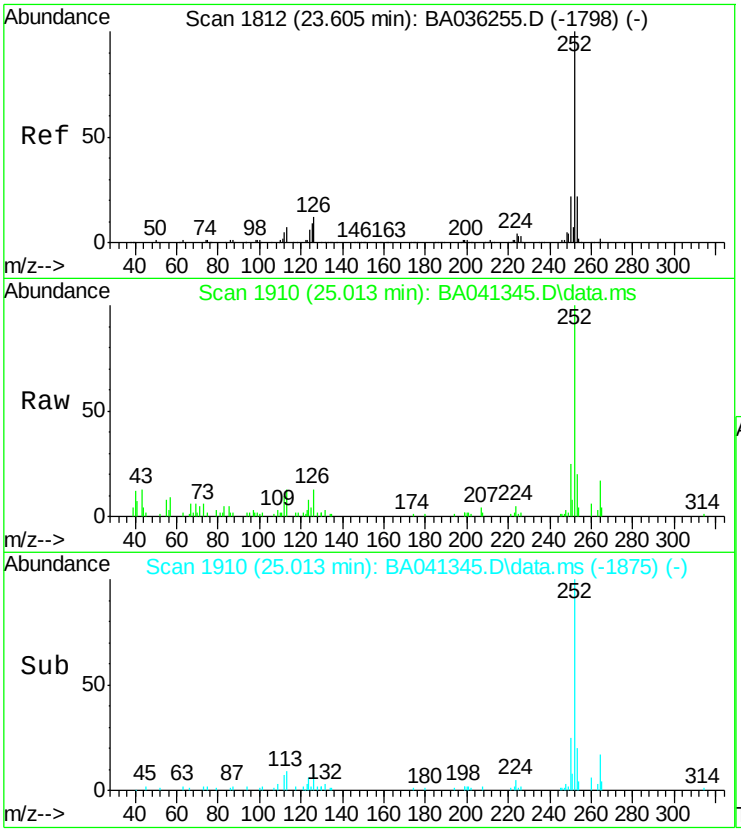


#84
Benzo(k)fluoranthene
Concen: 1.27 ng/ul m
RT: 24.053 min Scan# 1829
Delta R.T. 0.071 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:252 Resp: 40123

Ion	Ratio	Lower	Upper
252	100		
253	18.5	18.2	27.4
125	7.4	3.5	5.3#

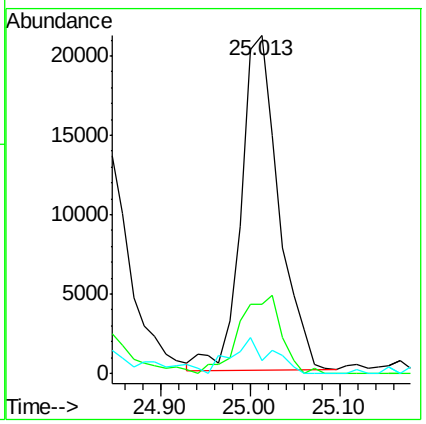


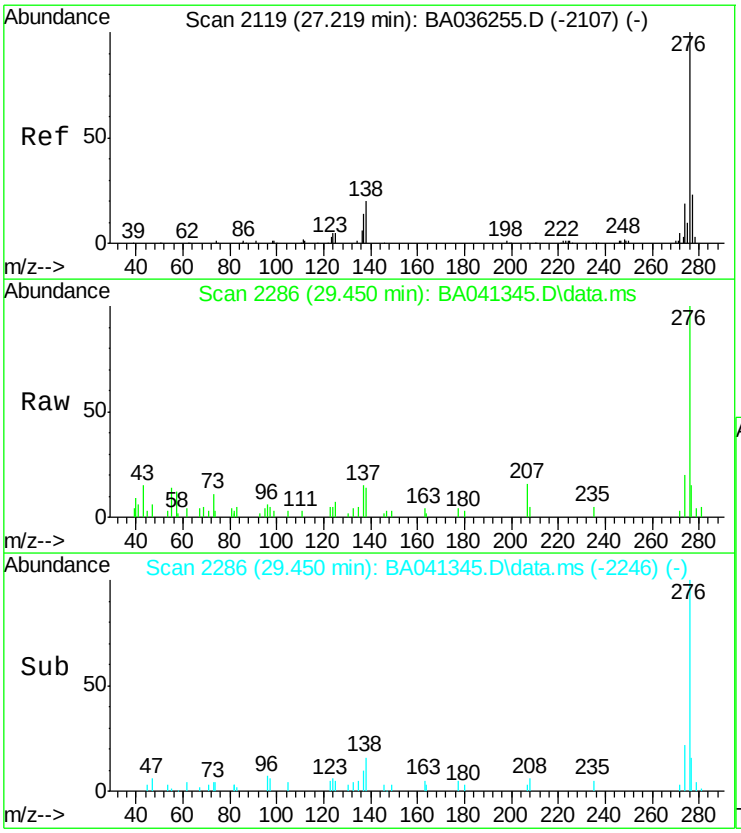


#86
Benzo(a)pyrene
Concen: 1.91 ng/ul
RT: 25.013 min Scan# 1910
Delta R.T. 0.115 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:252 Resp: 61356

Ion	Ratio	Lower	Upper
252	100		
253	20.3	15.1	22.7
125	3.7	3.4	5.2

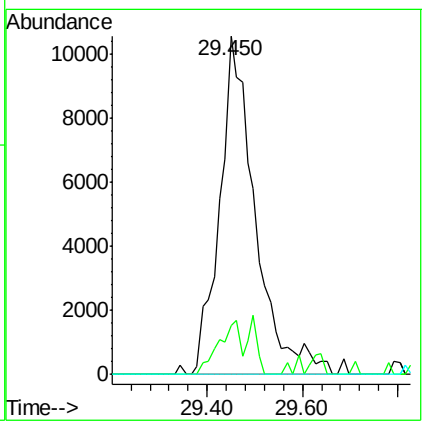


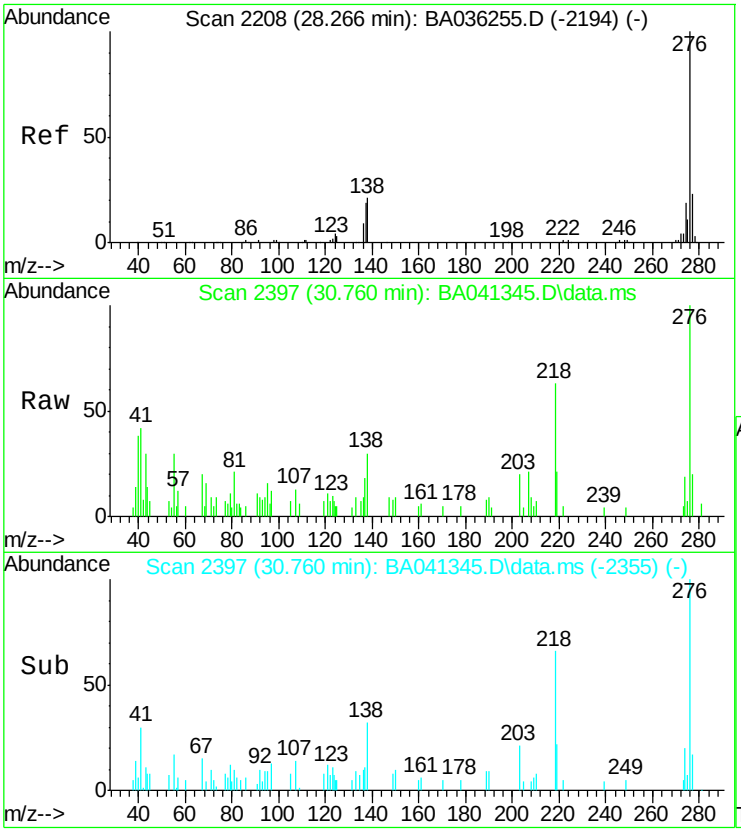


#87
Indeno(1,2,3-cd)pyrene
Concen: 1.82 ng/ul m
RT: 29.450 min Scan# 2286
Delta R.T. 0.172 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:276 Resp: 54559

Ion	Ratio	Lower	Upper
276	100		
138	14.4	8.2	12.2#
227	0.0	0.0	0.0

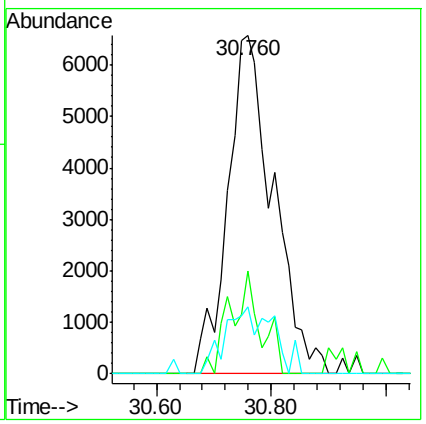




#89
Benzo(g,h,i)perylene
Concen: 1.19 ng/ul
RT: 30.760 min Scan# 2397
Delta R.T. 0.196 min
Lab File: BA041345.D
Acq: 21 Oct 2008 6:31

Tgt Ion:276 Resp: 36181

Ion	Ratio	Lower	Upper
276	100		
138	30.3	10.6	16.0#
277	19.9	20.2	30.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 07:34:26 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.690	152	221877	20.00	ng/ul	0.00
16) Naphthalene-d8	9.090	136	749843	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.680	164	521337	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.773	188	1000939	20.00	ng/ul	0.02
73) Chrysene-d12	21.344	240	689827	20.00	ng/ul	0.06
81) Perylene-d12	25.214	264	569001	20.00	ng/ul	0.14
System Monitoring Compounds						
3) Phenol-d5	6.065	99	523766	38.99	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.171	67	361650	39.71	ng/ul	0.02
7) 2-Chlorophenol-d4	6.301	132	473385	41.47	ng/ul	0.00
11) 4-Methylphenol-d8	7.408	113	369139	40.50	ng/ul	0.02
17) Nitrobenzene-d5	7.702	128	252253	38.00	ng/ul	0.00
20) 2-Nitrophenol-d4	8.325	143	316726	38.76	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.795	165	528409	34.94	ng/ul	0.00
27) 4-Chloroaniline-d4	9.243	131	339042	22.67	ng/ul	0.02
41) Dimethylphthalate-d6	12.141	166	1449936	41.76	ng/ul	0.02
44) Acenaphthylene-d8	12.353	160	1735747	41.12	ng/ul	0.01
49) 4-Nitrophenol-d4	12.986	143	284401	40.19	ng/ul	0.02
55) Fluorene-d10	13.775	176	1030514	36.90	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.939	200	291687	28.16	ng/ul	0.02
68) Anthracene-d10	15.892	188	1548489m	32.32	ng/ul	0.03
74) Pyrene-d10	18.756	212	1553436	51.54	ng/ul	0.04
85) Benzo(a)pyrene-d12	24.953	264	797966	25.75	ng/ul	0.14
Target Compounds						Qvalue
12) Acetophenone	7.419	105	18951	1.06	ng/ul#	86
67) Phenanthrene	15.821	178	92641m	1.81	ng/ul	
72) Fluoranthene	18.321	202	270509	4.46	ng/ul#	97
75) Pyrene	18.792	202	224392	5.86	ng/ul#	95
78) Benzo(a)anthracene	21.320	228	71449m	1.95	ng/ul	
80) Chrysene	21.392	228	90248	2.91	ng/ul#	92
83) Benzo(b)fluoranthene	23.995	252	105641m	2.84	ng/ul	
84) Benzo(k)fluoranthene	24.053	252	40123m	1.27	ng/ul	
86) Benzo(a)pyrene	25.013	252	61356	1.91	ng/ul	97
87) Indeno(1,2,3-cd)pyrene	29.450	276	54559m	1.82	ng/ul	
89) Benzo(g,h,i)perylene	30.760	276	36181	1.19	ng/ul#	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041345.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.083	45	48	52	rVV	11857	29581	0.66%	0.046%
2	3.530	83	86	88	rBV3	10565	17884	0.40%	0.028%
3	4.151	135	139	146	rBV	301673	601574	13.35%	0.938%
4	5.289	234	236	239	rBV2	12717	20392	0.45%	0.032%
5	6.065	299	302	307	rBV	1224324	2165686	48.06%	3.377%
6	6.171	307	311	315	rVV	947290	1472896	32.69%	2.296%
7	6.301	318	322	329	rBV	1311672	2123951	47.14%	3.312%
8	6.690	352	355	360	rBV	869353	1484558	32.95%	2.315%
9	7.043	383	385	389	rVB	11339	21878	0.49%	0.034%
10	7.396	412	415	424	rBV	1283368	2342728	51.99%	3.653%
11	7.702	438	441	444	rBV	1461234	2217413	49.21%	3.457%
12	7.925	457	460	462	rBV3	9166	18218	0.40%	0.028%
13	8.325	491	494	497	rBV	1442221	2088934	46.36%	3.257%
14	8.549	509	513	519	rVB3	17980	38246	0.85%	0.060%
15	8.642	519	521	525	rBV3	9664	18159	0.40%	0.028%
16	8.795	531	534	541	rBV	1783760	2708340	60.11%	4.223%
17	9.090	556	559	562	rBV	1177317	1691848	37.55%	2.638%
18	9.231	568	571	575	rBV	759275	1321765	29.33%	2.061%
19	10.449	670	675	681	rVB2	22914	52438	1.16%	0.082%
20	11.073	725	728	731	rVV4	9434	22852	0.51%	0.036%
21	11.320	746	749	754	rBV4	16543	36349	0.81%	0.057%
22	12.129	814	818	821	rBV	2126940	3636392	80.71%	5.670%
23	12.176	821	822	827	rVB2	46145	45869	1.02%	0.072%
24	12.353	833	837	841	rBV	2253861	3787013	84.05%	5.905%
25	12.680	862	865	869	rVV	1362935	2128496	47.24%	3.319%
26	12.738	869	870	872	rVV2	13975	19845	0.44%	0.031%
27	12.986	886	891	894	rBV	1243162	2209308	49.03%	3.445%
28	13.116	899	902	905	rVV2	31549	52693	1.17%	0.082%
29	13.175	905	907	911	rVB	31009	46997	1.04%	0.073%
30	13.422	925	928	932	rVB3	11037	25809	0.57%	0.040%
31	13.645	941	947	950	rVB3	15379	31085	0.69%	0.048%
32	13.775	952	958	961	rBV	2137934	3866971	85.82%	6.029%
33	13.939	968	972	975	rBV	1097017	1868501	41.47%	2.913%
34	14.032	977	980	984	rVB4	26648	51041	1.13%	0.080%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.184	989	993	996	rVB5	11676	26909	0.60%	0.042%
36	14.373	1006	1009	1012	rVV3	18566	31103	0.69%	0.048%
37	14.442	1012	1015	1019	rVB3	9015	20470	0.45%	0.032%
38	14.713	1035	1038	1044	rVB2	37230	75789	1.68%	0.118%
39	15.372	1091	1094	1099	rVB3	8701	28531	0.63%	0.044%
40	15.514	1103	1106	1111	rVB3	15976	33936	0.75%	0.053%
41	15.655	1115	1118	1121	rBV	41829	57324	1.27%	0.089%
42	15.726	1121	1124	1125	rBV2	15519	33549	0.74%	0.052%
43	15.773	1125	1128	1131	rBV	1403203	2326184	51.63%	3.627%
44	15.821	1131	1132	1134	rVB	142368	144633	3.21%	0.226%
45	15.892	1134	1138	1142	rBV	2148641	3939464	87.43%	6.142%
46	16.045	1148	1151	1154	rBV4	8428	17537	0.39%	0.027%
47	16.104	1154	1156	1160	rVB2	32942	45175	1.00%	0.070%
48	16.269	1169	1170	1174	rVB3	15831	27676	0.61%	0.043%
49	16.551	1192	1194	1196	rBV3	17210	23684	0.53%	0.037%
50	16.752	1207	1211	1215	rBV4	9972	26952	0.60%	0.042%
51	16.834	1215	1218	1221	rBV3	22184	40076	0.89%	0.062%
52	16.893	1221	1223	1226	rVB2	29590	46917	1.04%	0.073%
53	16.976	1226	1230	1233	rBV4	4995	17781	0.39%	0.028%
54	17.047	1233	1236	1240	rBV3	199604	343319	7.62%	0.535%
55	17.189	1244	1248	1250	rBV4	11028	21076	0.47%	0.033%
56	17.270	1252	1255	1256	rBV3	12143	25548	0.57%	0.040%
57	17.495	1268	1274	1278	rVB4	44240	118141	2.62%	0.184%
58	17.991	1314	1316	1320	rBV5	11921	25198	0.56%	0.039%
59	18.143	1327	1329	1331	rBV3	8953	20535	0.46%	0.032%
60	18.179	1331	1332	1334	rVV	14164	27111	0.60%	0.042%
61	18.226	1334	1336	1341	rVV5	40278	109488	2.43%	0.171%
62	18.321	1341	1344	1348	rVV	309076	580686	12.89%	0.905%
63	18.604	1364	1368	1373	rVB3	26643	64350	1.43%	0.100%
64	18.756	1376	1381	1390	rBV2	1994300	4505763	100.00%	7.025%
65	19.052	1403	1406	1409	rVB3	24882	47065	1.04%	0.073%
66	19.277	1422	1425	1427	rVB3	17215	32561	0.72%	0.051%
67	19.500	1437	1444	1446	rVB	46618	138263	3.07%	0.216%
68	19.642	1452	1456	1459	rBV	40649	75745	1.68%	0.118%
69	19.713	1459	1462	1463	rVV3	27616	58715	1.30%	0.092%
70	19.749	1463	1465	1472	rVV7	42471	129364	2.87%	0.202%
71	19.902	1476	1478	1480	rVB3	16268	25094	0.56%	0.039%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.149	1495	1499	1500	rBV3	15225	39213	0.87%	0.061%
73	20.362	1514	1517	1520	rBV4	18030	51714	1.15%	0.081%
74	20.469	1522	1526	1529	rBV4	24395	60207	1.34%	0.094%
75	20.552	1531	1533	1536	rVB3	16653	37292	0.83%	0.058%
76	20.787	1550	1553	1557	rVB3	25037	66582	1.48%	0.104%
77	20.870	1557	1560	1561	rBV3	24015	42845	0.95%	0.067%
78	20.988	1568	1570	1576	rBV4	28318	61911	1.37%	0.097%
79	21.154	1581	1584	1592	rVV2	446679	1393987	30.94%	2.173%
80	21.344	1595	1600	1603	rVV	978423	2163851	48.02%	3.374%
81	21.392	1603	1604	1607	rVV	123784	176944	3.93%	0.276%
82	21.439	1607	1608	1614	rVB4	35553	62090	1.38%	0.097%
83	21.652	1623	1626	1629	rBV4	22833	54429	1.21%	0.085%
84	21.877	1643	1645	1647	rBV3	22290	35996	0.80%	0.056%
85	22.715	1710	1716	1723	rBV4	139462	644541	14.30%	1.005%
86	23.047	1742	1744	1748	rBV5	9342	22155	0.49%	0.035%
87	23.556	1785	1787	1793	rVB5	22696	49150	1.09%	0.077%
88	23.758	1800	1804	1809	rVB2	185351	465189	10.32%	0.725%
89	23.995	1819	1824	1829	rBV2	70881	301242	6.69%	0.470%
90	24.598	1870	1875	1879	rBV	91317	276378	6.13%	0.431%
91	24.693	1879	1883	1890	rVV6	77665	388485	8.62%	0.606%
92	24.953	1898	1905	1915	rVB	621024	2396062	53.18%	3.736%
93	25.214	1919	1927	1937	rBV	418912	1499001	33.27%	2.337%
94	27.255	2094	2100	2107	rBV2	93598	415267	9.22%	0.647%
95	27.419	2107	2114	2126	rBV5	200934	1331358	29.55%	2.076%
96	30.641	2384	2387	2388	rVV3	9385	20381	0.45%	0.032%
97	30.748	2388	2396	2403	rVB8	39780	230188	5.11%	0.359%
98	31.077	2419	2424	2425	rBV4	20772	60224	1.34%	0.094%
99	31.431	2452	2454	2456	rBV3	11923	25699	0.57%	0.040%
100	31.739	2471	2480	2488	rVB3	28924	187445	4.16%	0.292%

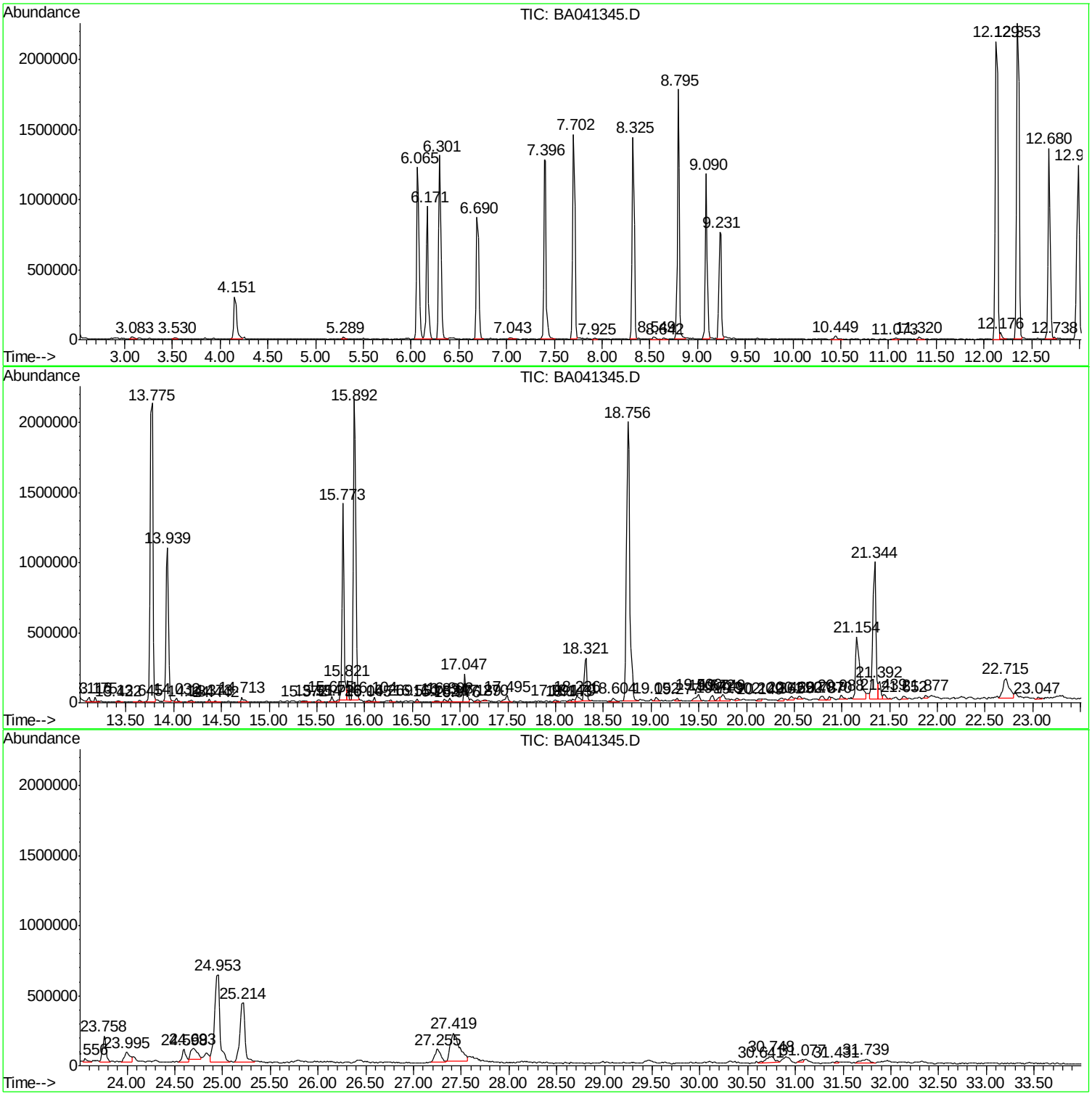
Sum of corrected areas: 64137248

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On    : 21 Oct 2008   6:31
Operator  : HNP
Sample    : Z4923-13
Misc      :
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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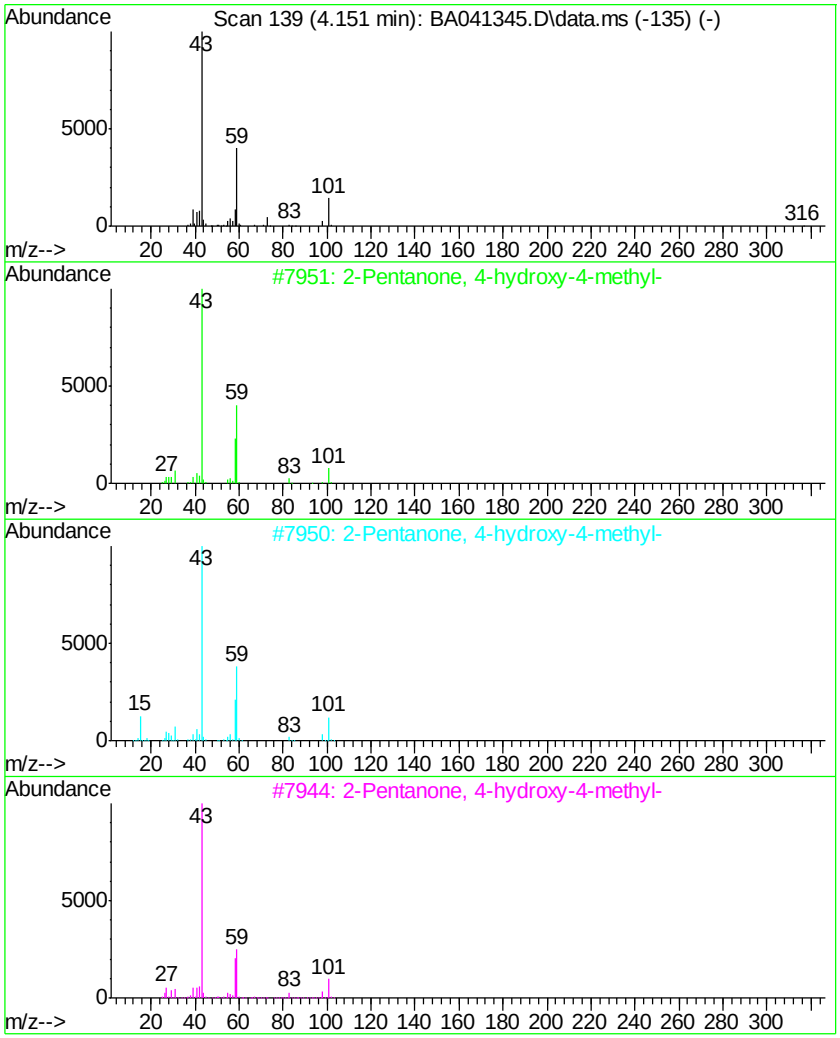
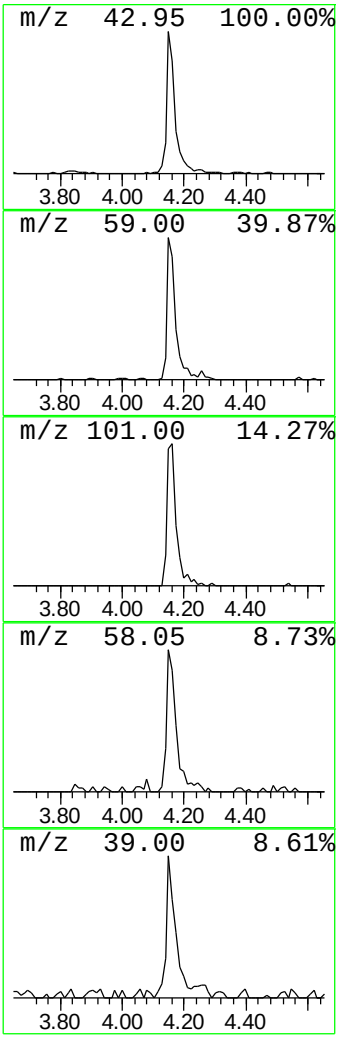
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.150	8.10 ng/ul	601574	1,4-Dichlorobenzene-d4	6.690

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	42
5	Propylamine	59	C3H9N	000107-10-8	40





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On    : 21 Oct 2008   6:31
Operator  : HNP
Sample    : Z4923-13
Misc      :
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

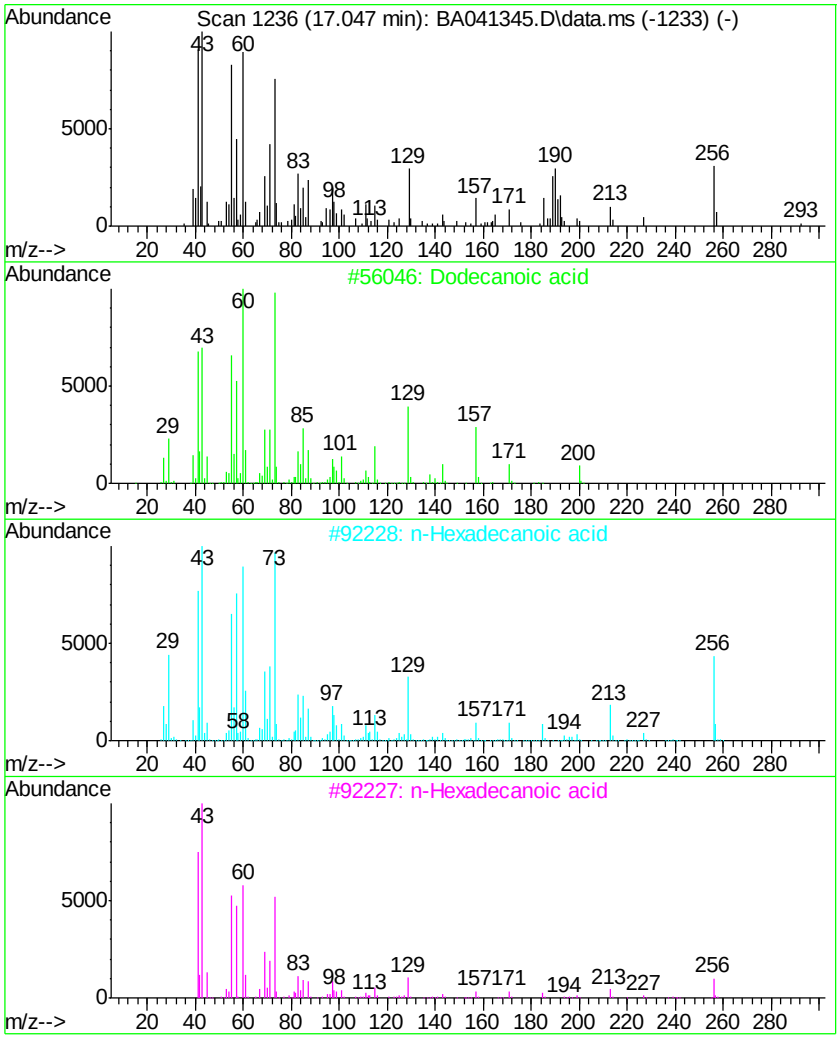
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

****

Peak Number 2 Dodecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.050	2.95 ng/ul	343319	Phenanthrene-d10	15.773

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecanoic acid	200	C12H24O2	000143-07-7	90
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	50
5	Undecanoic acid	186	C11H22O2	000112-37-8	50



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

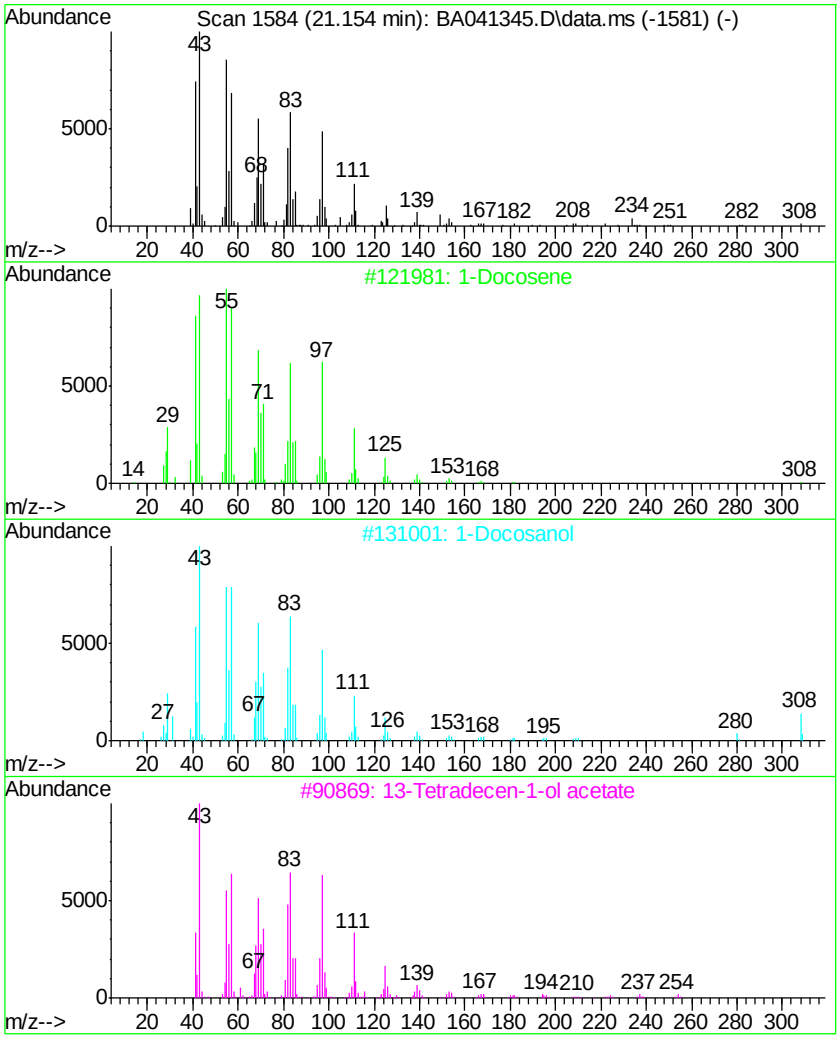
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 3 1-Docosene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.150	12.88 ng/ul	1393990	Chrysene-d12	21.344

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	99
2	1-Docosanol	326	C22H46O	000661-19-8	91
3	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
4	1-Docosanol	326	C22H46O	000661-19-8	81
5	1-Octadecanol	270	C18H38O	000112-92-5	80



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

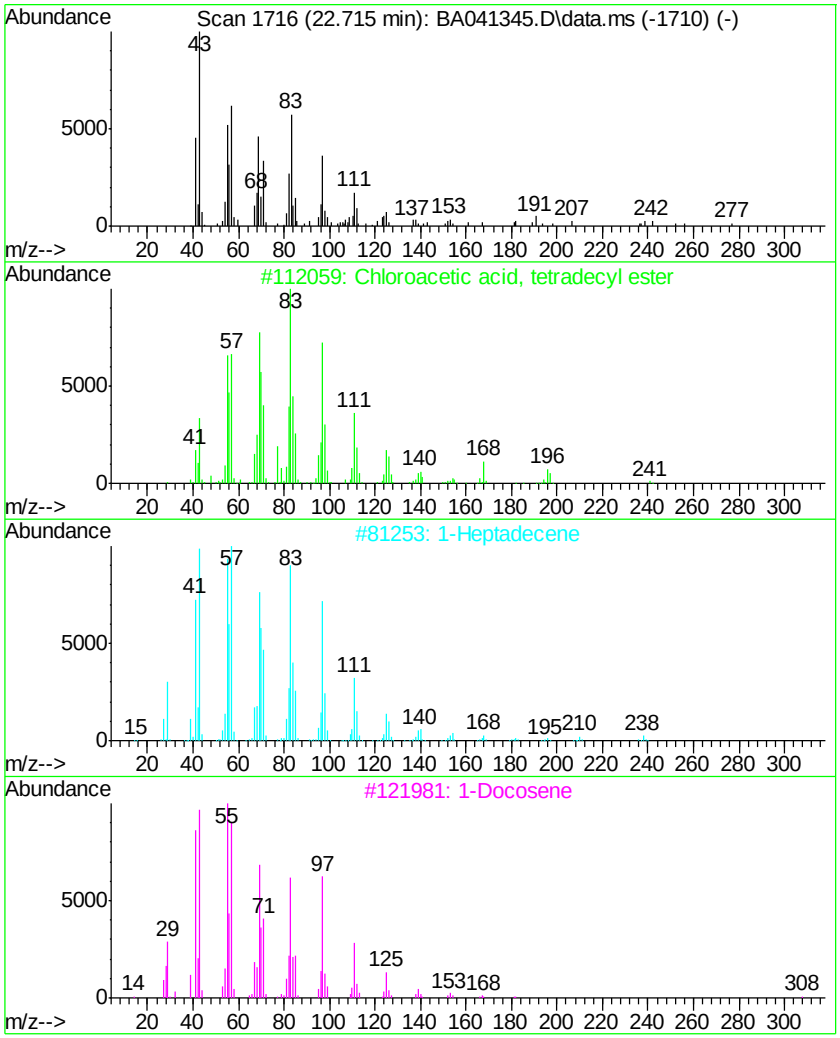
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

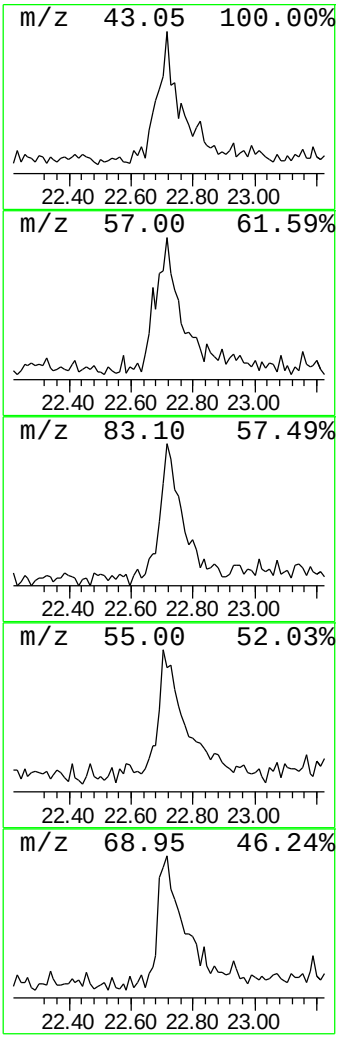
****

Peak Number 4 Chloroacetic acid, tetradec... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.720	5.96 ng/ul	644541	Chrysene-d12	21.344

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chloroacetic acid, tetradecyl ester	290	C16H31ClO2	018277-86-6	90
2	1-Heptadecene	238	C17H34	006765-39-5	83
3	1-Docosene	308	C22H44	001599-67-3	74
4	Trifluoroacetic acid, n-octadecy...	366	C20H37F3O2	079392-43-1	64
5	1-Nonadecanol	284	C19H40O	001454-84-8	64





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

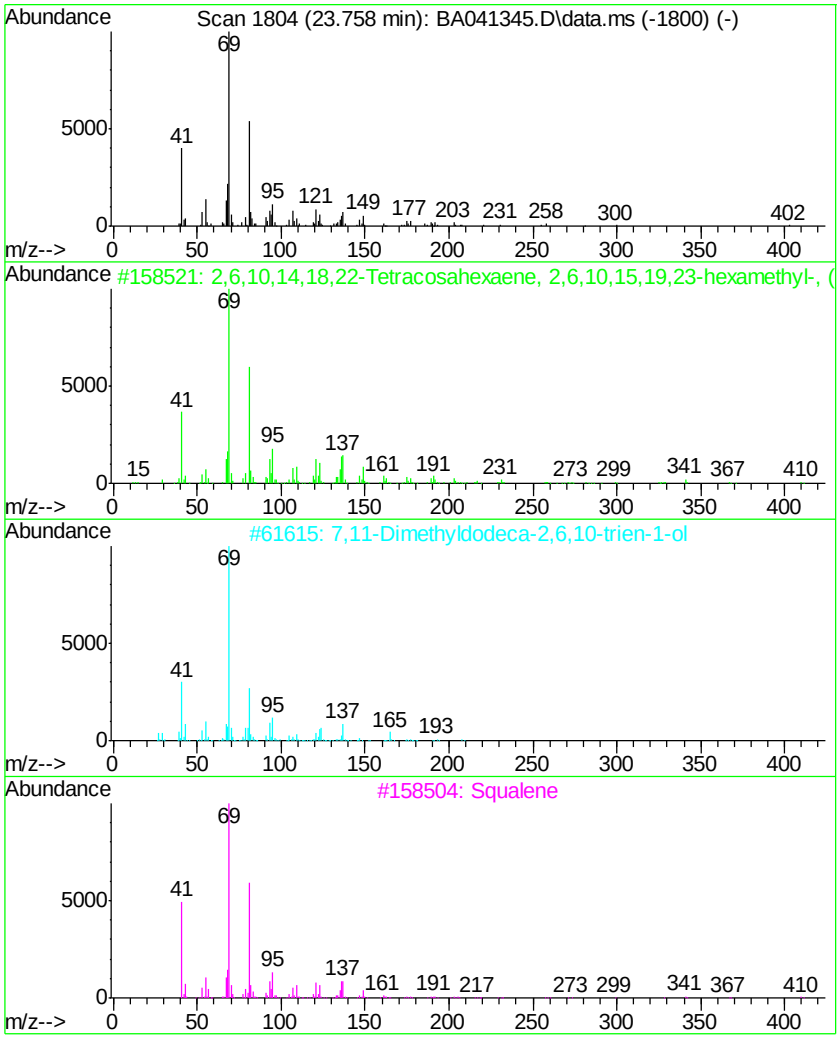
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

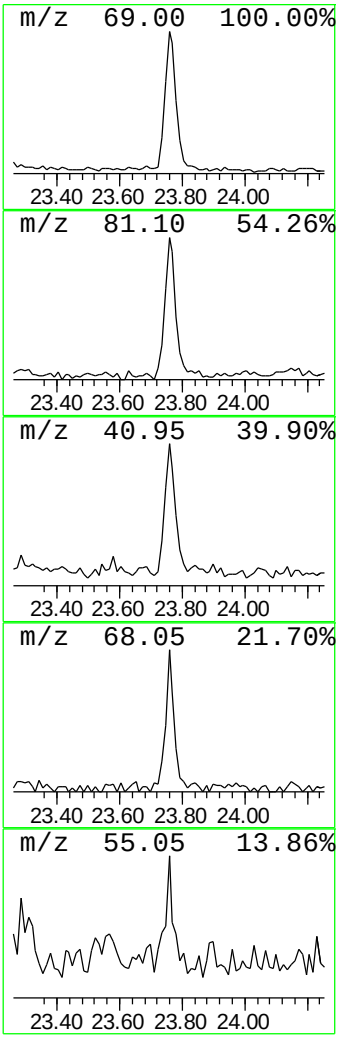
****

Peak Number 5 2,6,10,14,18,22-Tetracosahe... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.760	6.21 ng/ul	465189	Perylene-d12	25.215

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	72
2	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	68
3	Squalene	410	C30H50	007683-64-9	64
4	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	64
5	Farnesol isomer a	222	C15H26O	1000108-92-4	59





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

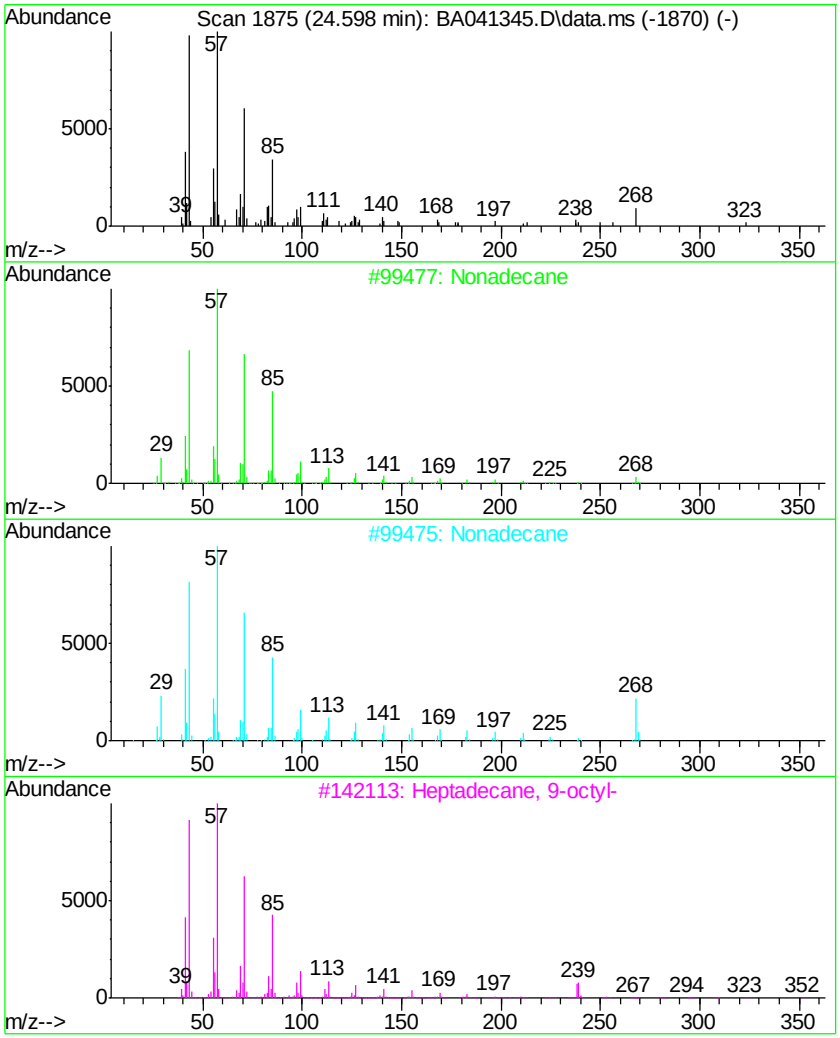
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

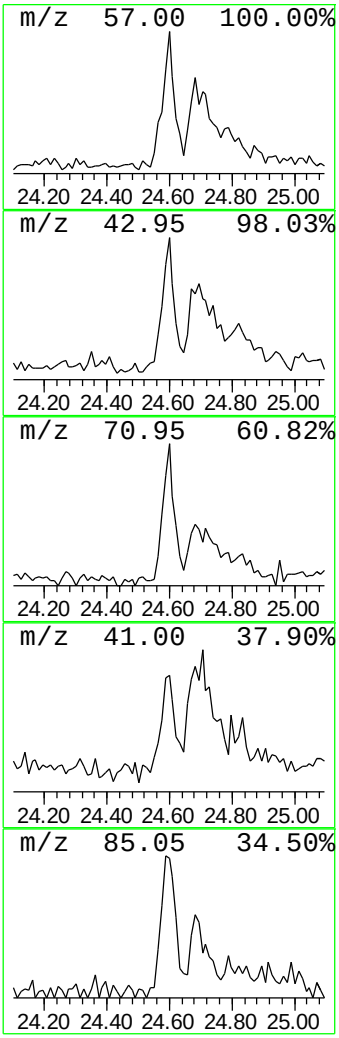
****

Peak Number 6 Nonadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.600	3.69 ng/ul	276378	Perylene-d12	25.215

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	95
2	Nonadecane	268	C19H40	000629-92-5	83
3	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	72
4	Tetracosane	338	C24H50	000646-31-1	68
5	Tetratetracontane	619	C44H90	007098-22-8	68





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

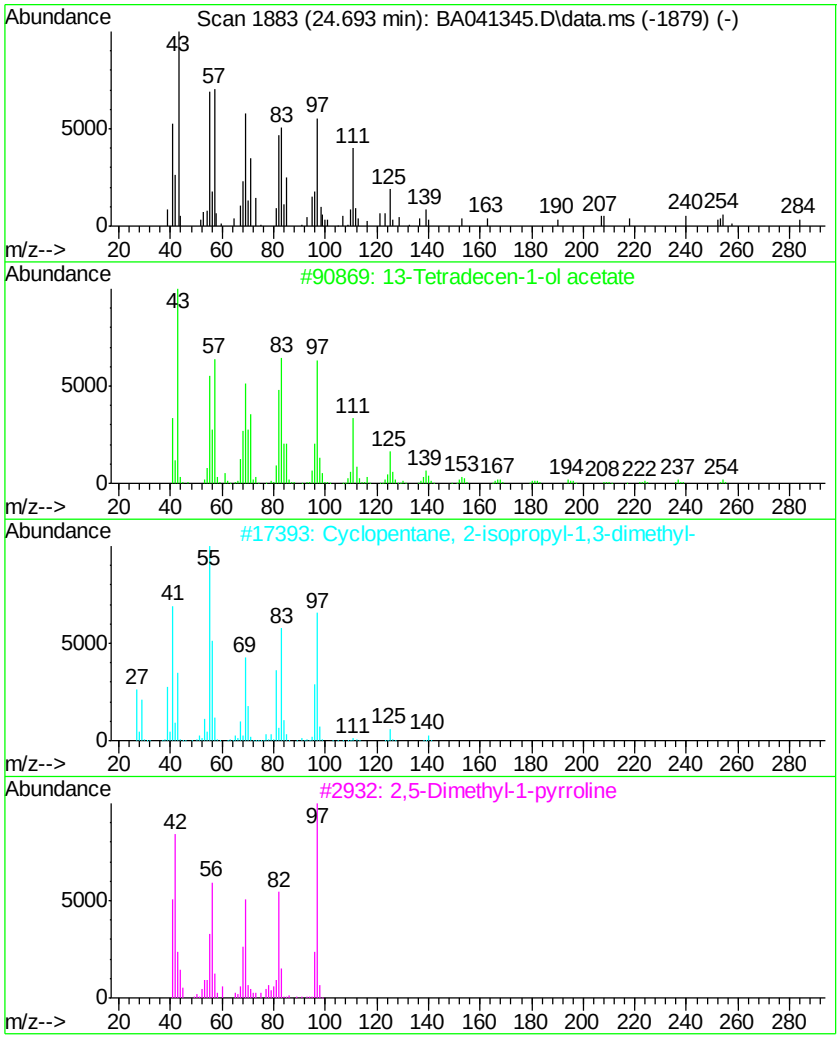
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

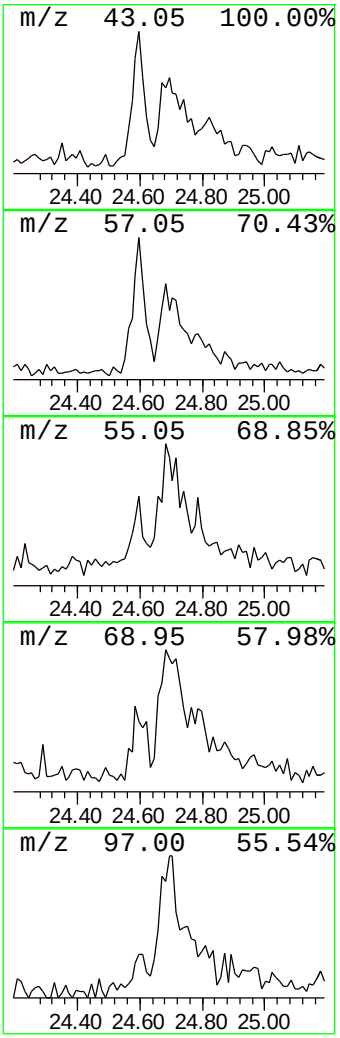
****

Peak Number 7 13-Tetradecen-1-ol acetate Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.690	5.18 ng/ul	388485	Perylene-d12	25.215

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	87
2	Cyclopentane, 2-isopropyl-1,3-di...	140	C10H20	032281-85-9	42
3	2,5-Dimethyl-1-pyrroline	97	C6H11N	000822-64-0	42
4	3-Octadecene, (E)-	252	C18H36	007206-19-1	38
5	1H-Imidazol, 1-methyl-2-amino-	97	C4H7N3	006646-51-1	38





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

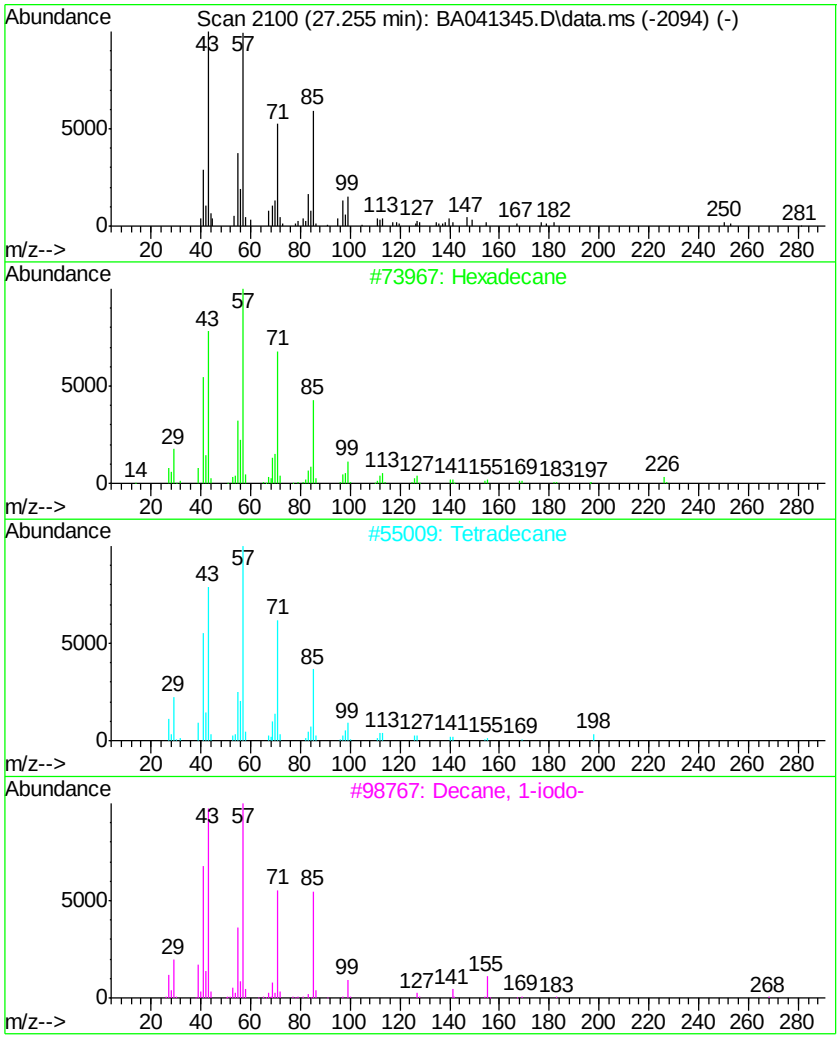
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

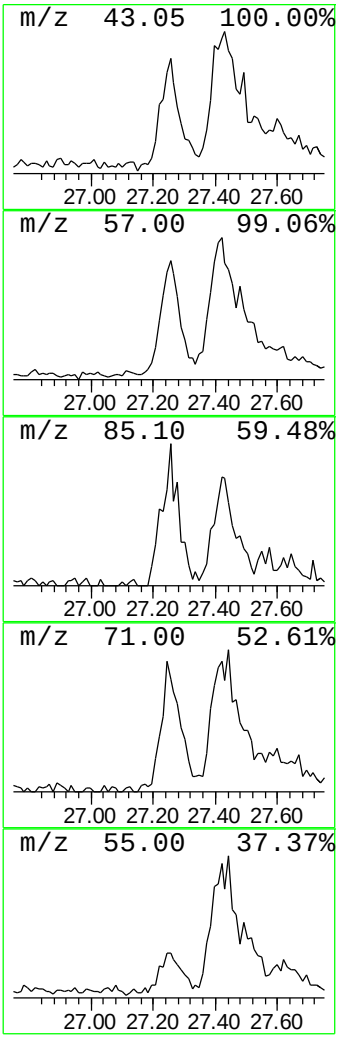
****

Peak Number 8 Hexadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.250	5.54 ng/ul	415267	Perylene-d12	25.215

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	64
2	Tetradecane	198	C14H30	000629-59-4	58
3	Decane, 1-iodo-	268	C10H21I	002050-77-3	53
4	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	53
5	Undecane	156	C11H24	001120-21-4	53





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

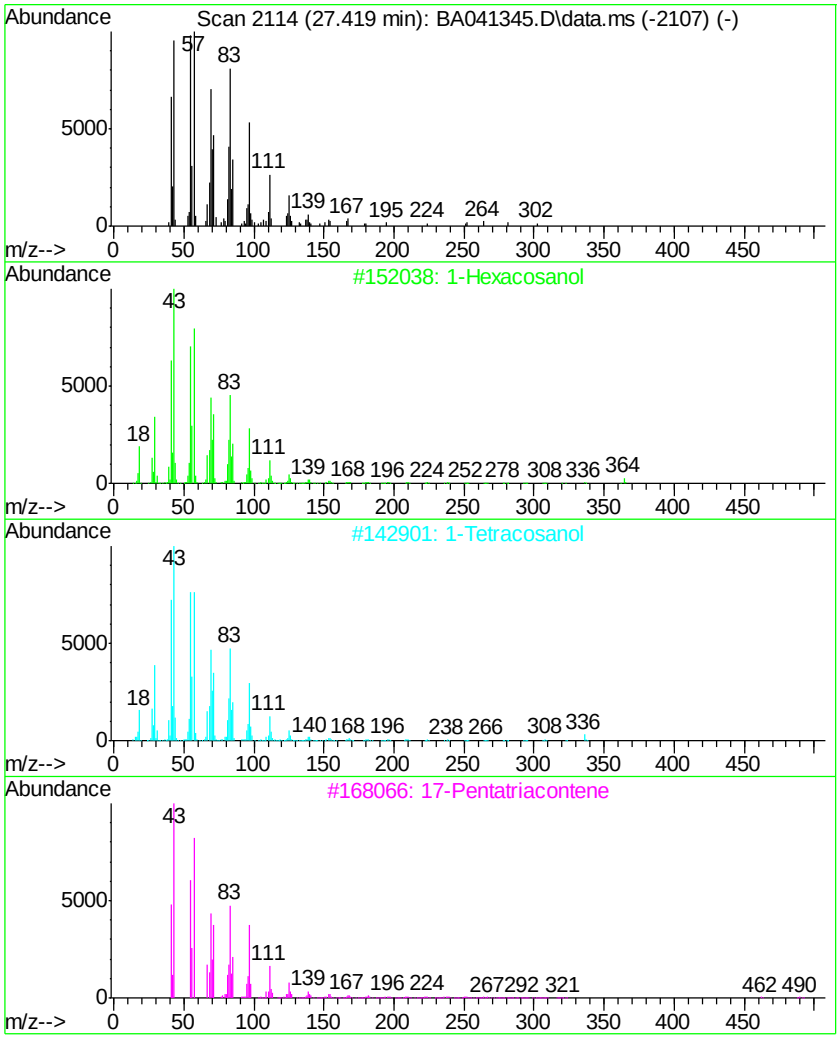
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

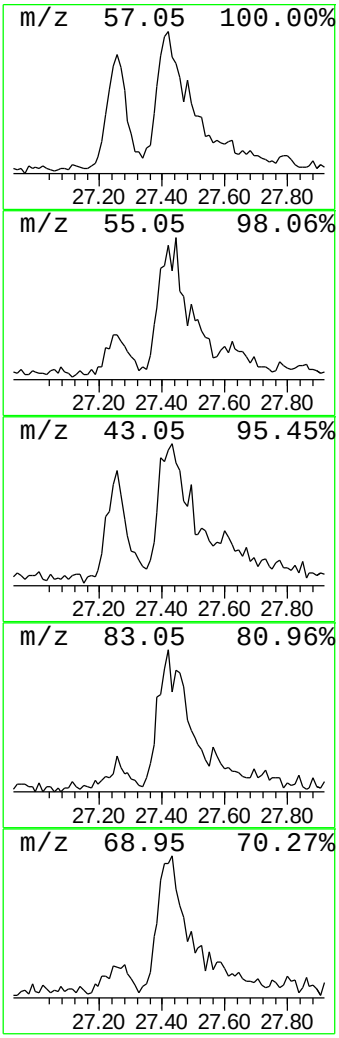
****

Peak Number 9 1-Hexacosanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.420	17.76 ng/ul	1331360	Perylene-d12	25.215

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosanol	382	C26H54O	000506-52-5	90
2	1-Tetracosanol	354	C24H50O	000506-51-4	86
3	17-Pentatriacontene	491	C35H70	006971-40-0	74
4	17-Pentatriacontene	491	C35H70	006971-40-0	72
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	68





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

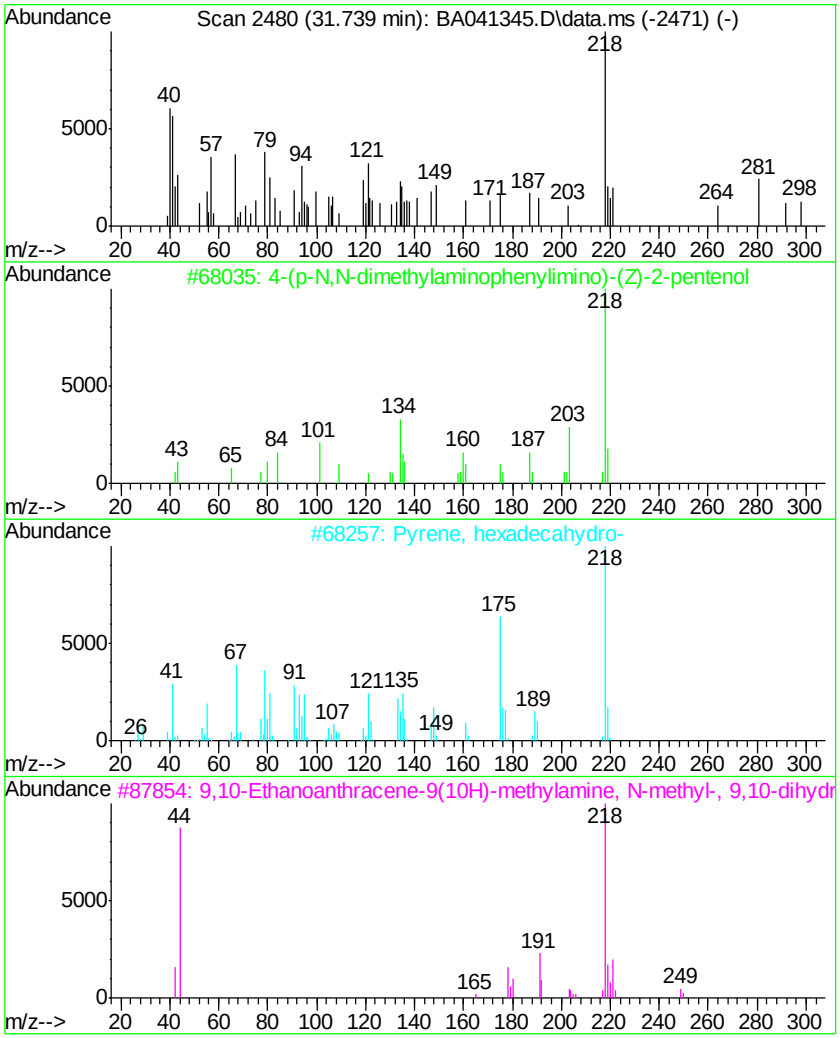
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

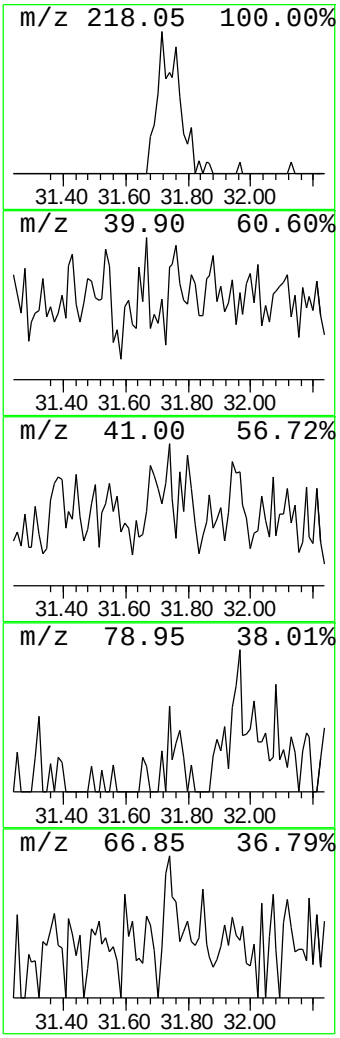
****

Peak Number 10 unknown31.74 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.740	2.50 ng/ul	187445	Perylene-d12	25.215

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(p-N,N-dimethylaminophenylimin...	218	C13H18N2O	1000100-07-8	43
2	Pyrene, hexadecahydro-	218	C16H26	002435-85-0	43
3	9,10-Ethanoanthracene-9(10H)-met...	249	C18H19N	017243-39-9	38
4	2(3H)-Naphthalenone, 4,4a,5,6,7,...	218	C15H22O	019598-45-9	35
5	Methanone, (3,4-diaminophenyl)-2...	218	C11H10N2OS	083846-78-0	35





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041345.D
Acq On : 21 Oct 2008 6:31
Operator : HNP
Sample : Z4923-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.150	8.1	ng/ul	601574	1	6.690	1484560	20.0
Dodecanoic acid	17.050	3.0	ng/ul	343319	4	15.773	2326180	20.0
1-Docosene	21.150	12.9	ng/ul	1393990	5	21.344	2163850	20.0
Chloroacetic ac...	22.720	6.0	ng/ul	644541	5	21.344	2163850	20.0
2,6,10,14,18,22...	23.760	6.2	ng/ul	465189	6	25.215	1499000	20.0
Nonadecane	24.600	3.7	ng/ul	276378	6	25.215	1499000	20.0
13-Tetradecen-1...	24.690	5.2	ng/ul	388485	6	25.215	1499000	20.0
Hexadecane	27.250	5.5	ng/ul	415267	6	25.215	1499000	20.0
1-Hexacosanol	27.420	17.8	ng/ul	1331360	6	25.215	1499000	20.0
unknown31.74	31.740	2.5	ng/ul	187445	6	25.215	1499000	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK2B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-14

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041331.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 14.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.63 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	55	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK2B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-14

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041331.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 14.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.63 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BACK2B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-14

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041331.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 14.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.63 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

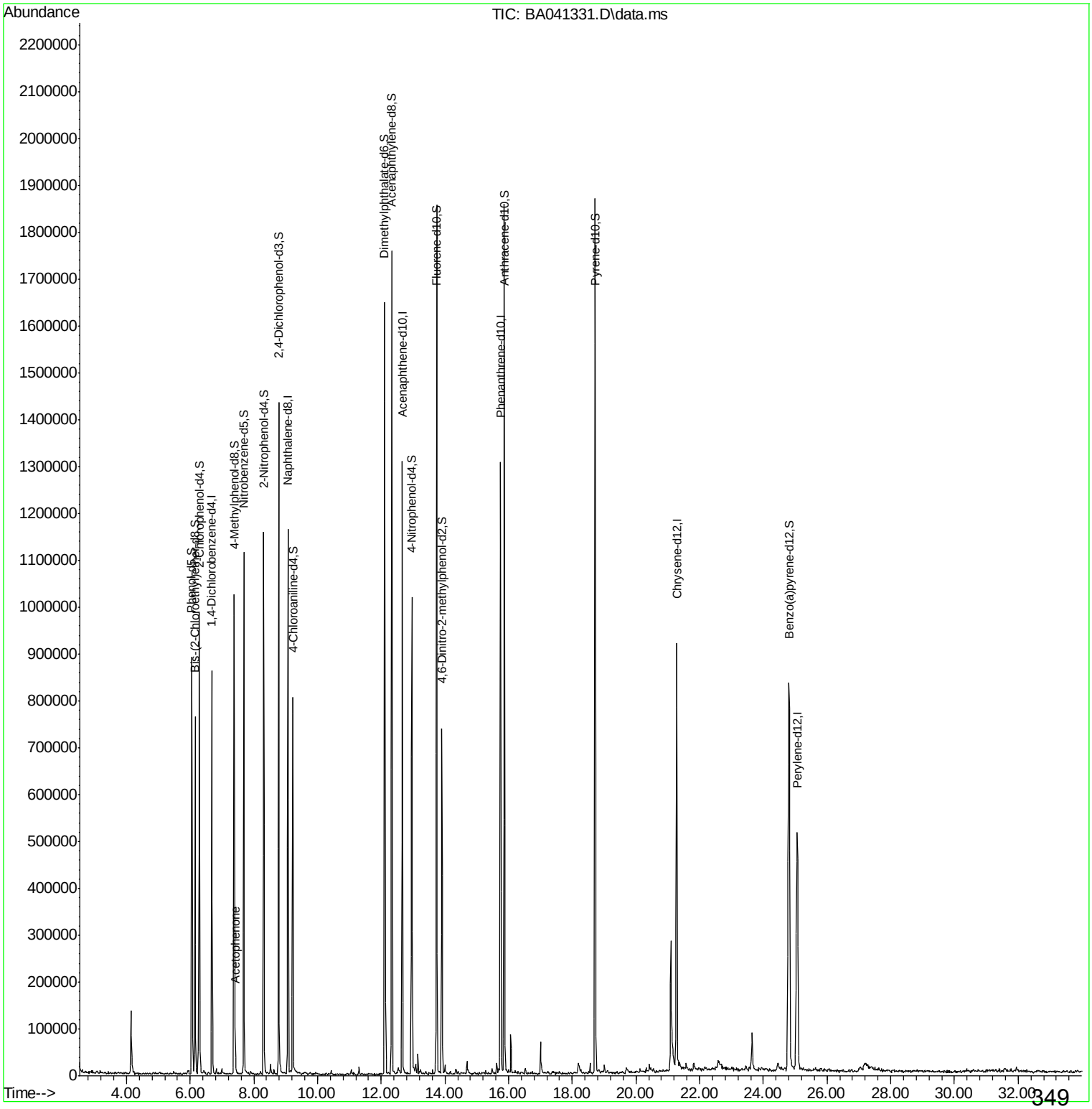
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.14	140	JN
02.	1000283-04-0	Pentafluoropropionic acid, unde	21.09	370	JN
03.	111-02-4	2,6,10,14,18,22-Tetracosahexaen	23.65	86	JNB
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

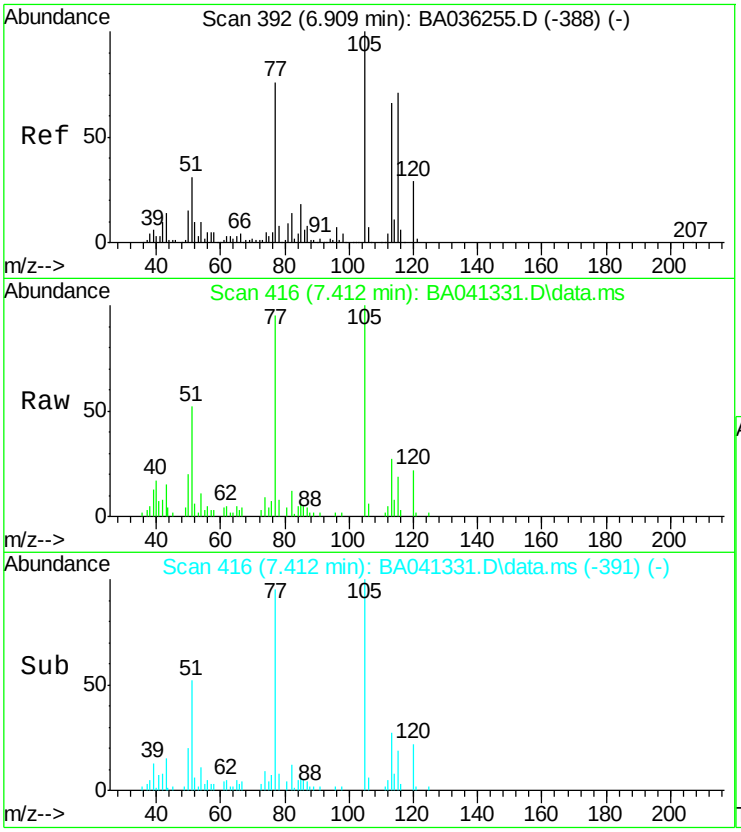
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 02:06:44 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

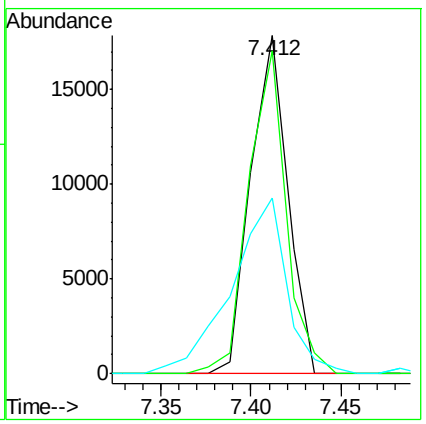




#12
Acetophenone
Concen: 1.42 ng/ul
RT: 7.412 min Scan# 416
Delta R.T. -0.011 min
Lab File: BA041331.D
Acq: 20 Oct 2008 20:51

Tgt Ion:105 Resp: 25327

Ion	Ratio	Lower	Upper
105	100		
77	95.4	69.4	104.2
51	52.0	42.1	63.1



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 02:06:44 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.683	152	221330	20.00	ng/ul	0.00
16) Naphthalene-d8	9.071	136	730442	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.656	164	512021	20.00	ng/ul	-0.01
59) Phenanthrene-d10	15.751	188	995137	20.00	ng/ul	0.00
73) Chrysene-d12	21.283	240	721238	20.00	ng/ul	0.00
81) Perylene-d12	25.063	264	692393	20.00	ng/ul	-0.01
System Monitoring Compounds						
3) Phenol-d5	6.047	99	380567	28.40	ng/ul	-0.01
5) Bis-(2-Chloroethyl)eth...	6.153	67	274249	30.19	ng/ul	0.00
7) 2-Chlorophenol-d4	6.283	132	355534	31.22	ng/ul	-0.01
11) 4-Methylphenol-d8	7.388	113	262772	28.90	ng/ul	0.00
17) Nitrobenzene-d5	7.682	128	200780	31.05	ng/ul	-0.01
20) 2-Nitrophenol-d4	8.307	143	238843	30.00	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.777	165	391773	26.59	ng/ul	-0.01
27) 4-Chloroaniline-d4	9.224	131	349083	23.96	ng/ul	0.00
41) Dimethylphthalate-d6	12.104	166	1112600	32.63	ng/ul	-0.01
44) Acenaphthylene-d8	12.328	160	1311196	31.63	ng/ul	-0.01
49) 4-Nitrophenol-d4	12.961	143	208164	29.95	ng/ul	0.00
55) Fluorene-d10	13.738	176	872677	31.82	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.903	200	168002	16.31	ng/ul	-0.02
68) Anthracene-d10	15.869	188	1277420	26.81	ng/ul	0.00
74) Pyrene-d10	18.720	212	1378429	43.74	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.804	264	1158085	30.71	ng/ul	-0.01
Target Compounds						Qvalue
12) Acetophenone	7.412	105	25327	1.42	ng/ul	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041331.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.696	13	15	18	rBV2	4530	10017	0.29%	0.021%
2	2.849	26	28	31	rBV2	6322	12629	0.36%	0.027%
3	4.143	134	138	144	rBV	134973	261216	7.46%	0.549%
4	4.237	144	146	148	rVB	7778	11447	0.33%	0.024%
5	4.389	158	159	162	rBV	4238	8165	0.23%	0.017%
6	5.929	286	290	291	rBV2	8145	16552	0.47%	0.035%
7	6.047	297	300	306	rBV	889251	1653227	47.23%	3.473%
8	6.153	306	309	314	rVV	761049	1116474	31.89%	2.345%
9	6.283	317	320	326	rVB	984553	1633925	46.68%	3.432%
10	6.683	350	354	358	rBV	860948	1444294	41.26%	3.034%
11	6.825	363	366	369	rVB2	10640	18713	0.53%	0.039%
12	6.989	378	380	386	rBV5	10264	20809	0.59%	0.044%
13	7.388	410	414	423	rVB	1023590	1858910	53.10%	3.905%
14	7.682	436	439	442	rBV	1111518	1719354	49.12%	3.611%
15	7.906	455	458	462	rBV2	7047	18182	0.52%	0.038%
16	8.213	482	484	489	rBV	6237	11640	0.33%	0.024%
17	8.307	489	492	495	rVV	1155545	1592951	45.51%	3.346%
18	8.366	495	497	500	rVB3	6548	9905	0.28%	0.021%
19	8.529	508	511	514	rBV2	19874	32909	0.94%	0.069%
20	8.623	517	519	521	rBV2	9763	13815	0.39%	0.029%
21	8.777	529	532	535	rBV	1433891	2055660	58.72%	4.318%
22	9.071	554	557	560	rBV	1160906	1660292	47.43%	3.487%
23	9.224	566	570	577	rBV	800251	1346428	38.46%	2.828%
24	9.940	628	631	634	rVB3	3481	7585	0.22%	0.016%
25	10.422	670	672	675	rBV3	7521	13050	0.37%	0.027%
26	11.057	724	726	728	rBV	9753	14989	0.43%	0.031%
27	11.128	731	732	735	rBV2	4878	7368	0.21%	0.015%
28	11.305	742	747	751	rBV2	17270	28870	0.82%	0.061%
29	11.858	789	794	796	rBV	3538	11561	0.33%	0.024%
30	12.104	812	815	818	rBV	1644554	2698685	77.09%	5.669%
31	12.151	818	819	822	rVB	30846	29681	0.85%	0.062%
32	12.328	831	834	838	rBV	1756547	2901308	82.88%	6.094%
33	12.527	849	851	859	rBV5	11043	29376	0.84%	0.062%
34	12.656	859	862	866	rBV	1304264	2124375	60.69%	4.462%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.961	884	888	891	rBV	1016408	1656751	47.33%	3.480%
36	13.079	896	898	902	rVB2	19559	33308	0.95%	0.070%
37	13.150	902	904	907	rVB	43318	70134	2.00%	0.147%
38	13.232	909	911	913	rVB	7107	7738	0.22%	0.016%
39	13.491	932	933	937	rBV	5375	16470	0.47%	0.035%
40	13.620	941	944	946	rBV2	10789	19395	0.55%	0.041%
41	13.738	951	954	958	rVB	1845783	3147600	89.92%	6.612%
42	13.903	965	968	973	rBV	735475	1103539	31.53%	2.318%
43	14.010	975	977	980	rVB2	19174	33481	0.96%	0.070%
44	14.174	987	991	992	rBV2	5044	11802	0.34%	0.025%
45	14.350	1002	1006	1008	rVB3	10785	19172	0.55%	0.040%
46	14.420	1008	1012	1014	rVB3	5627	13321	0.38%	0.028%
47	14.515	1017	1020	1023	rBV2	4155	10612	0.30%	0.022%
48	14.691	1032	1035	1037	rBV3	26776	39663	1.13%	0.083%
49	15.092	1066	1069	1073	rBV2	5451	14896	0.43%	0.031%
50	15.281	1083	1085	1089	rBV4	7375	12304	0.35%	0.026%
51	15.481	1100	1102	1107	rBV	11721	20990	0.60%	0.044%
52	15.621	1111	1114	1118	rBV	24009	45646	1.30%	0.096%
53	15.691	1118	1120	1121	rBV	9877	14909	0.43%	0.031%
54	15.751	1121	1125	1128	rBV	1297842	2267588	64.78%	4.763%
55	15.869	1131	1135	1138	rBV	1848012	3244863	92.70%	6.816%
56	15.999	1144	1146	1148	rBV2	6567	9641	0.28%	0.020%
57	16.069	1150	1152	1155	rVB2	81962	117030	3.34%	0.246%
58	16.303	1171	1172	1175	rBV3	5936	8322	0.24%	0.017%
59	16.515	1187	1190	1197	rVB3	12868	32729	0.93%	0.069%
60	16.620	1197	1199	1201	rBV3	5286	9531	0.27%	0.020%
61	17.009	1229	1232	1237	rBV2	68837	112533	3.21%	0.236%
62	17.599	1280	1282	1287	rVB3	5888	11784	0.34%	0.025%
63	17.942	1308	1311	1313	rBV3	4074	8070	0.23%	0.017%
64	18.189	1329	1332	1337	rBV5	18763	54733	1.56%	0.115%
65	18.520	1357	1360	1361	rBV2	5222	8938	0.26%	0.019%
66	18.555	1361	1363	1366	rVB2	21577	35030	1.00%	0.074%
67	18.720	1372	1377	1380	rBV	1865689	3500516	100.00%	7.353%
68	19.004	1399	1401	1405	rVB3	18708	33428	0.95%	0.070%
69	19.406	1431	1435	1438	rBV4	5879	16618	0.47%	0.035%
70	19.701	1456	1460	1462	rBV2	12243	33256	0.95%	0.070%
71	20.126	1494	1496	1500	rBV2	6782	13428	0.38%	0.028%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.327	1510	1513	1514	rBV2	12222	23551	0.67%	0.049%
73	20.422	1519	1521	1523	rVV3	13050	19709	0.56%	0.041%
74	21.093	1574	1578	1589	rBV	277621	827655	23.64%	1.738%
75	21.283	1589	1594	1597	rBV	898528	1749003	49.96%	3.674%
76	21.579	1617	1619	1624	rVB4	15968	35369	1.01%	0.074%
77	21.816	1637	1639	1641	rBV3	13776	25962	0.74%	0.055%
78	23.646	1790	1794	1800	rBV	78173	187321	5.35%	0.393%
79	24.804	1885	1892	1900	rBV	828410	2775603	79.29%	5.830%
80	25.063	1907	1914	1921	rVB	505906	1694968	48.42%	3.560%
81	25.915	1984	1986	1987	rBV3	6616	7624	0.22%	0.016%
82	28.572	2209	2211	2214	rBV4	4637	9238	0.26%	0.019%
83	30.991	2415	2416	2418	rBV2	5964	7688	0.22%	0.016%
84	31.946	2495	2497	2500	rBV3	8667	14287	0.41%	0.030%
85	33.208	2602	2604	2606	rBV2	4970	12879	0.37%	0.027%
86	33.655	2640	2642	2646	rBV3	5519	12795	0.37%	0.027%

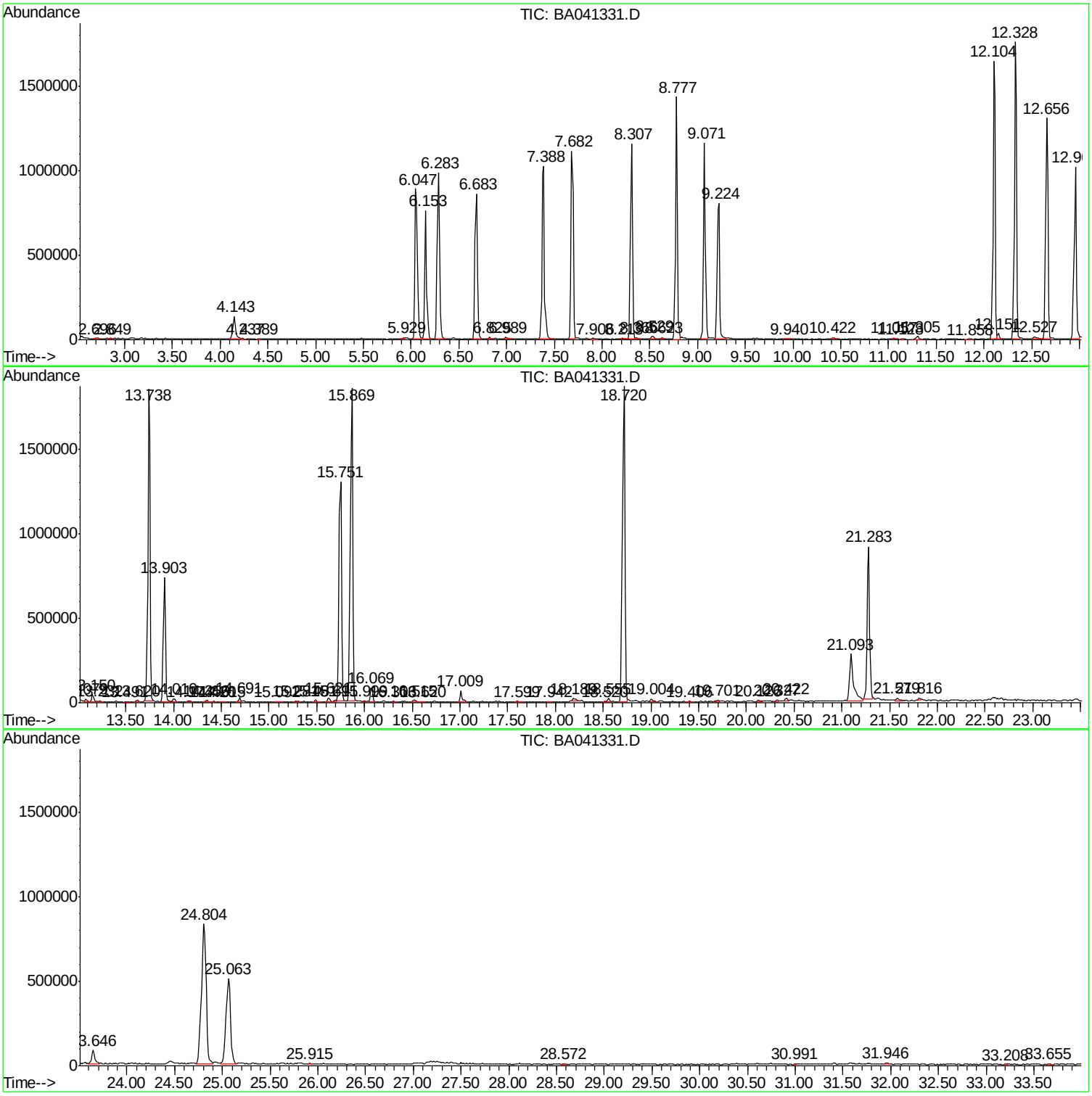
Sum of corrected areas: 47607783

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

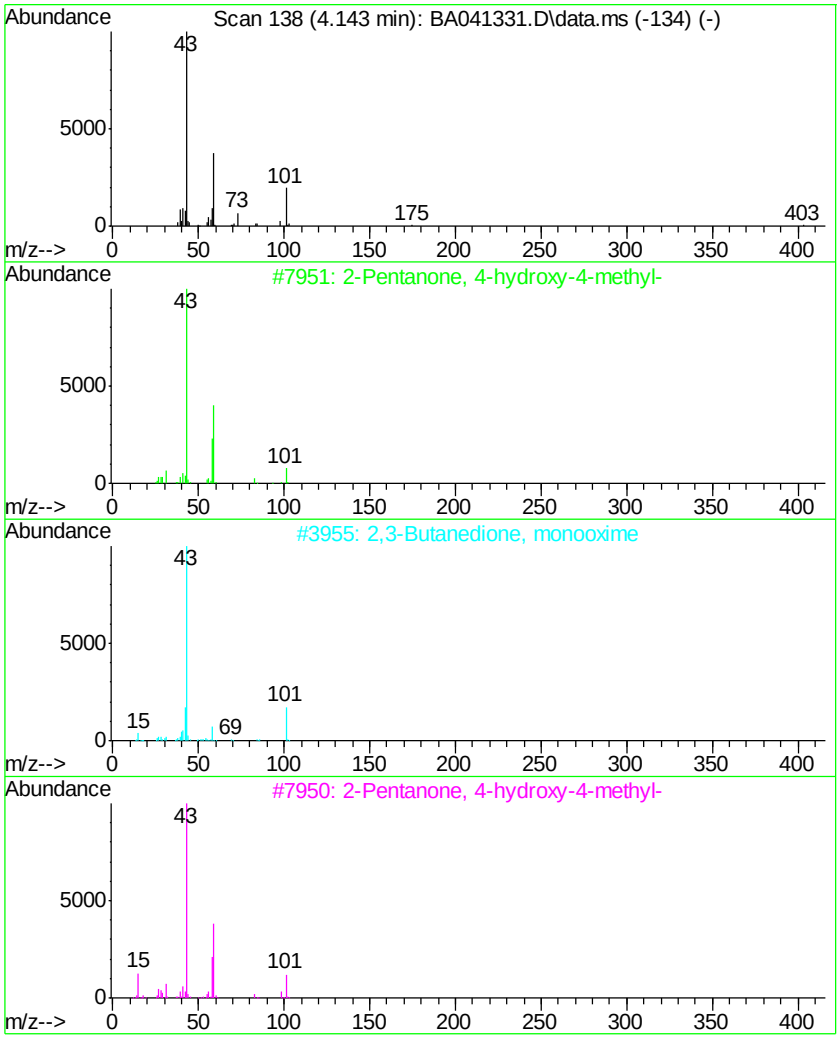
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

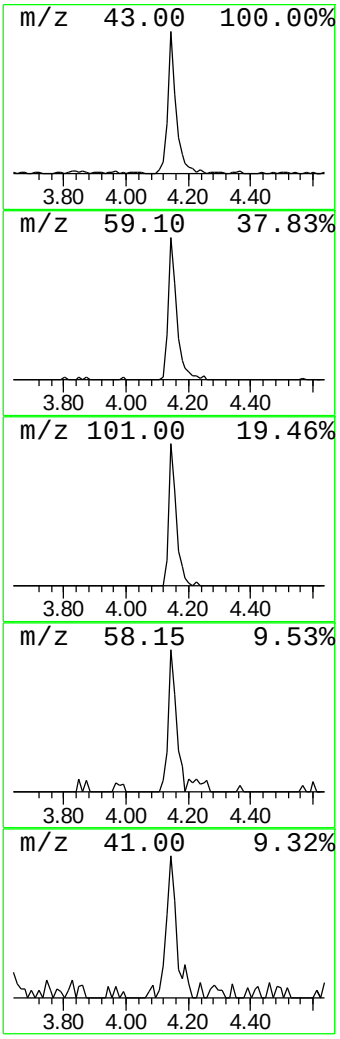
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.140	3.62 ng/ul	261216	1,4-Dichlorobenzene-d4	6.683

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	43
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
4	Propylamine	59	C3H9N	000107-10-8	9
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On    : 20 Oct 2008  20:51
Operator  : HNP
Sample    : Z4923-14
Misc      :
ALS Vial  : 10   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

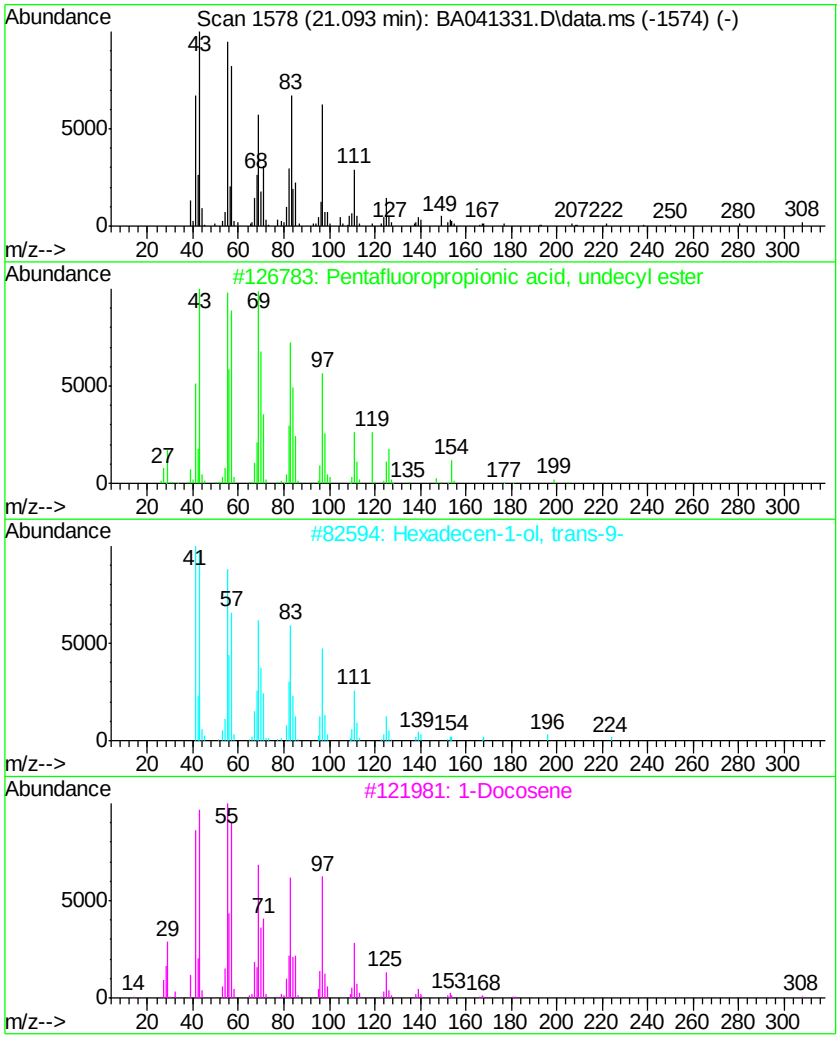
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

****

Peak Number 2 Pentafluoropropionic acid, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.090	9.46 ng/ul	827655	Chrysene-d12	21.283

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentafluoropropionic acid, undec...	318	C14H23F5O2	1000283-04-0	90
2	Hexadecen-1-ol, trans-9-	240	C16H32O	064437-47-4	86
3	1-Docosene	308	C22H44	001599-67-3	80
4	Cyclohexane, 1,1'-(2-propyl-1,3-...	250	C18H34	055030-21-2	78
5	E-15-Heptadecenal	252	C17H32O	1000130-97-9	74



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

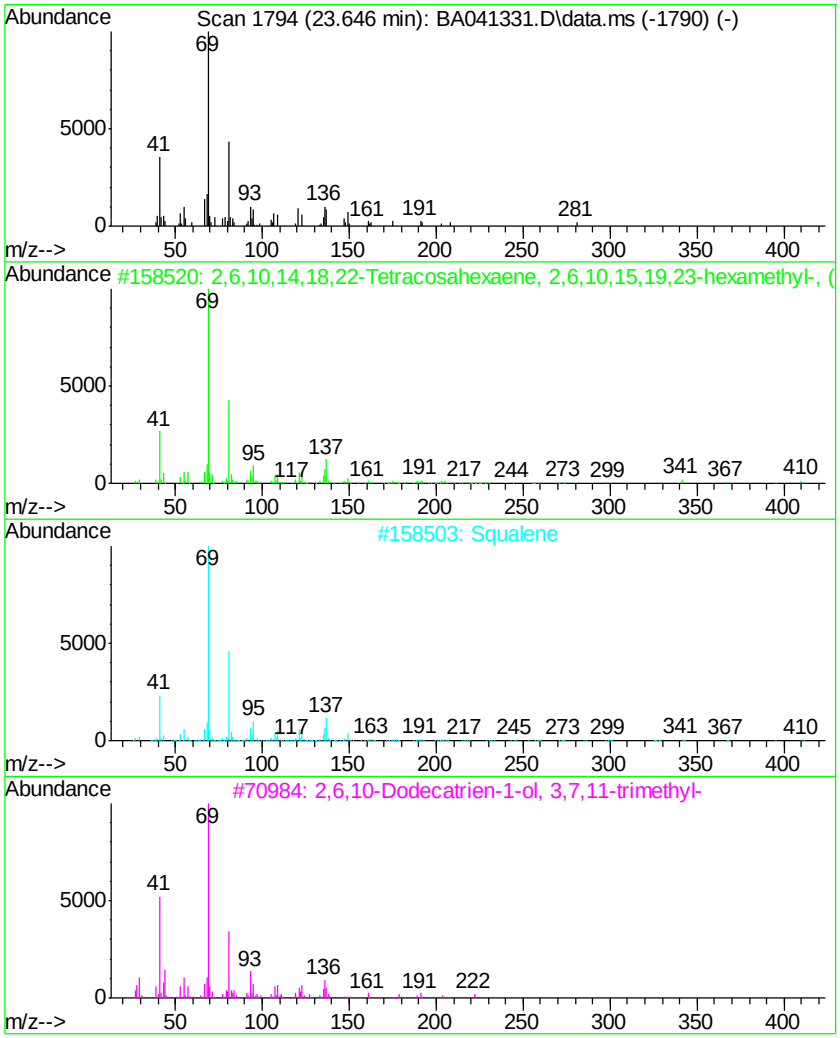
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

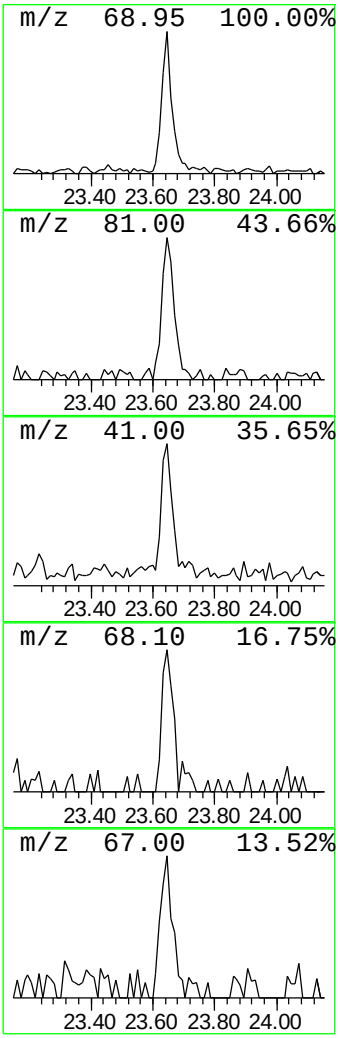
****

Peak Number 3 2,6,10,14,18,22-Tetracosahe... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.650	2.21 ng/ul	187321	Perylene-d12	25.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	86
2	Squalene	410	C30H50	007683-64-9	80
3	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	004602-84-0	64
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	264	C17H28O2	004128-17-0	56
5	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	56





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041331.D
Acq On : 20 Oct 2008 20:51
Operator : HNP
Sample : Z4923-14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-...	4.140	3.6	ng/ul	261216	1	6.683	1444290	20.0
Pentafluoroprop...	21.090	9.5	ng/ul	827655	5	21.283	1749000	20.0
2,6,10,14,18,22...	23.650	2.2	ng/ul	187321	6	25.063	1694970	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK3A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-15

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041332.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 17.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.33 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK3A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-15

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041332.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 17.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.33 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BACK3A

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-15

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041332.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 17.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.33 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

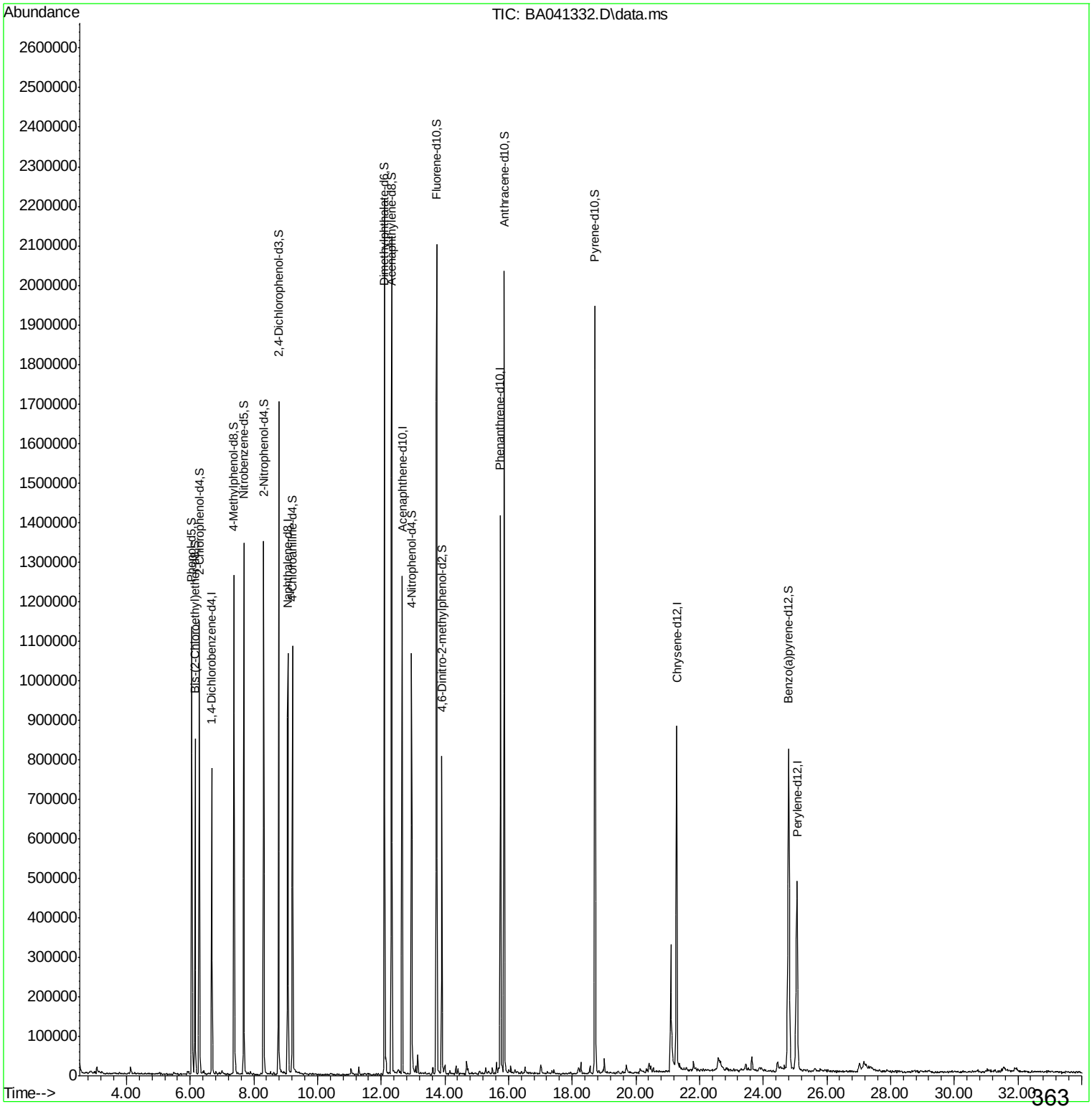
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	1599-67-3	1-Docosene	21.10	420	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 12:05:44 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 12:05:44 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.684	152	219554	20.00	ng/ul	0.00
16) Naphthalene-d8	9.074	136	764487	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.662	164	530448	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.744	188	1003455	20.00	ng/ul	-0.01
73) Chrysene-d12	21.286	240	744209	20.00	ng/ul	0.00
81) Perylene-d12	25.063	264	653955	20.00	ng/ul	-0.01
System Monitoring Compounds						
3) Phenol-d5	6.048	99	460922	34.67	ng/ul	-0.01
5) Bis-(2-Chloroethyl)eth...	6.154	67	329558	36.57	ng/ul	0.00
7) 2-Chlorophenol-d4	6.284	132	423274	37.47	ng/ul	0.00
11) 4-Methylphenol-d8	7.378	113	320223	35.51	ng/ul	0.00
17) Nitrobenzene-d5	7.684	128	242220	35.79	ng/ul	0.00
20) 2-Nitrophenol-d4	8.307	143	273299	32.80	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.779	165	473859	30.73	ng/ul	0.00
27) 4-Chloroaniline-d4	9.216	131	385785	25.30	ng/ul	0.00
41) Dimethylphthalate-d6	12.109	166	1297628	36.73	ng/ul	0.00
44) Acenaphthylene-d8	12.333	160	1484558	34.56	ng/ul	0.00
49) 4-Nitrophenol-d4	12.957	143	224417	31.17	ng/ul	0.00
55) Fluorene-d10	13.745	176	965632	33.99	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.911	200	223418	21.51	ng/ul	0.00
68) Anthracene-d10	15.863	188	1426938	29.70	ng/ul	0.00
74) Pyrene-d10	18.713	212	1517870	46.68	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.802	264	1142550	32.08	ng/ul	-0.02

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041332.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.072	44	47	51	rBV3	18270	44659	1.15%	0.084%
2	4.072	127	132	134	rBV2	3233	13107	0.34%	0.025%
3	4.119	134	136	142	rVV3	20144	51562	1.33%	0.097%
4	5.482	250	252	255	rBV3	5660	14028	0.36%	0.026%
5	5.918	286	289	290	rBV2	8758	14164	0.36%	0.027%
6	5.954	290	292	297	rVV2	8285	15191	0.39%	0.029%
7	6.048	297	300	306	rVV	1133547	1933853	49.74%	3.648%
8	6.154	306	309	316	rVV	849822	1295949	33.33%	2.445%
9	6.284	316	320	325	rVV	1149633	1909212	49.10%	3.602%
10	6.438	331	333	335	rVB2	8090	12223	0.31%	0.023%
11	6.684	350	354	359	rVV	773806	1464057	37.65%	2.762%
12	6.814	361	365	369	rVB4	9538	24226	0.62%	0.046%
13	6.990	377	380	387	rVB5	9292	29283	0.75%	0.055%
14	7.378	410	413	421	rVB	1261304	2019759	51.95%	3.810%
15	7.684	436	439	442	rBV	1342282	1982504	50.99%	3.740%
16	8.225	481	485	489	rBV2	5375	14574	0.37%	0.027%
17	8.307	489	492	495	rBV	1346296	1833850	47.16%	3.460%
18	8.779	528	532	535	rBV	1702923	2406208	61.89%	4.539%
19	8.944	545	546	550	rVB3	7366	12748	0.33%	0.024%
20	9.074	553	557	560	rBV	1064526	1692703	43.53%	3.193%
21	9.216	566	569	572	rBV	1076975	1507673	38.78%	2.844%
22	11.051	723	725	730	rVV3	14596	29753	0.77%	0.056%
23	11.299	744	746	749	rVV	20744	30366	0.78%	0.057%
24	12.109	811	815	817	rBV	2216761	3226342	82.98%	6.087%
25	12.144	817	818	822	rVV	43355	56452	1.45%	0.106%
26	12.333	830	834	837	rBV	2119542	3290645	84.63%	6.208%
27	12.392	837	839	843	rVB2	6623	13629	0.35%	0.026%
28	12.533	848	851	853	rBV4	8084	17688	0.45%	0.033%
29	12.662	858	862	865	rBV	1259643	2151645	55.34%	4.059%
30	12.957	883	887	890	rBV	1065734	1848379	47.54%	3.487%
31	13.087	895	898	901	rVV2	21790	42682	1.10%	0.081%
32	13.146	901	903	908	rVV	47857	85760	2.21%	0.162%
33	13.392	920	924	928	rVB4	5597	17243	0.44%	0.033%
34	13.616	939	943	945	rBV2	18911	32801	0.84%	0.062%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.745	950	954	957	rVB	2087191	3471288	89.28%	6.549%
36	13.911	964	968	971	rBV	802233	1430381	36.79%	2.698%
37	14.005	973	976	981	rVB	23806	45627	1.17%	0.086%
38	14.170	985	990	991	rBV	9905	19844	0.51%	0.037%
39	14.347	1000	1005	1008	rBV	21804	43728	1.12%	0.082%
40	14.406	1008	1010	1014	rVB5	14496	24637	0.63%	0.046%
41	14.688	1030	1034	1036	rBV	33444	60625	1.56%	0.114%
42	15.098	1066	1069	1073	rBV3	6707	14813	0.38%	0.028%
43	15.286	1082	1085	1087	rBV2	16331	31219	0.80%	0.059%
44	15.380	1087	1093	1095	rBV4	6071	16555	0.43%	0.031%
45	15.486	1100	1102	1107	rBV3	15072	28874	0.74%	0.054%
46	15.627	1111	1114	1117	rBV	30244	50983	1.31%	0.096%
47	15.685	1117	1119	1121	rBV2	12148	24517	0.63%	0.046%
48	15.744	1121	1124	1128	rVV	1401076	2286089	58.80%	4.313%
49	15.863	1130	1134	1138	rBV	2026219	3658321	94.09%	6.901%
50	16.005	1144	1146	1150	rBV4	7516	17596	0.45%	0.033%
51	16.075	1150	1152	1154	rVB3	19779	26986	0.69%	0.051%
52	16.204	1160	1163	1166	rVV2	9763	19073	0.49%	0.036%
53	16.273	1166	1169	1173	rVB4	4933	13984	0.36%	0.026%
54	16.521	1188	1190	1193	rVV3	16525	31203	0.80%	0.059%
55	17.004	1229	1231	1238	rBV2	23347	64914	1.67%	0.122%
56	17.370	1258	1262	1264	rBV4	8408	15127	0.39%	0.029%
57	17.417	1264	1266	1272	rVB4	10384	22062	0.57%	0.042%
58	17.701	1285	1290	1293	rBV2	3797	12936	0.33%	0.024%
59	17.959	1309	1312	1316	rVB2	5981	15920	0.41%	0.030%
60	18.207	1328	1333	1336	rBV5	13804	43835	1.13%	0.083%
61	18.278	1336	1339	1342	rVB	30628	55587	1.43%	0.105%
62	18.559	1360	1363	1367	rVB	19346	34949	0.90%	0.066%
63	18.713	1372	1376	1384	rVV	1942305	3888190	100.00%	7.335%
64	18.842	1384	1387	1391	rVV4	7936	24351	0.63%	0.046%
65	18.913	1391	1393	1396	rVV2	4793	14275	0.37%	0.027%
66	18.960	1396	1397	1399	rVV2	12038	18166	0.47%	0.034%
67	19.008	1399	1401	1404	rVV	39949	63681	1.64%	0.120%
68	19.102	1408	1409	1414	rVV3	6243	12454	0.32%	0.023%
69	19.704	1456	1460	1466	rVV5	19366	45753	1.18%	0.086%
70	20.140	1495	1497	1502	rVB3	7059	16757	0.43%	0.032%
71	20.317	1510	1512	1513	rBV2	10652	15149	0.39%	0.029%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.364	1514	1516	1517	rVV2	9391	12878	0.33%	0.024%
73	20.411	1517	1520	1523	rVV3	25120	63421	1.63%	0.120%
74	20.470	1523	1525	1528	rVV	17293	31587	0.81%	0.060%
75	20.553	1529	1532	1534	rVB2	12169	21805	0.56%	0.041%
76	20.624	1534	1538	1539	rBV3	5472	12224	0.31%	0.023%
77	21.096	1574	1578	1588	rBV	322326	994162	25.57%	1.875%
78	21.274	1589	1593	1600	rVV	869698	1877171	48.28%	3.541%
79	21.369	1600	1601	1605	rVB2	15242	28415	0.73%	0.054%
80	21.805	1633	1638	1641	rBV5	24632	58178	1.50%	0.110%
81	22.111	1663	1664	1668	rVB3	7122	12645	0.33%	0.024%
82	22.170	1668	1669	1672	rBV3	6181	12739	0.33%	0.024%
83	22.583	1701	1704	1709	rBV7	26109	98197	2.53%	0.185%
84	23.079	1744	1746	1750	rVB4	7013	12896	0.33%	0.024%
85	23.292	1759	1764	1765	rBV4	5550	16265	0.42%	0.031%
86	23.458	1774	1778	1781	rVB4	16107	40990	1.05%	0.077%
87	23.647	1791	1794	1797	rBV3	35241	87015	2.24%	0.164%
88	23.872	1811	1813	1817	rBV5	6923	19315	0.50%	0.036%
89	24.446	1857	1862	1867	rBV5	24746	93650	2.41%	0.177%
90	24.802	1885	1892	1900	rVB	810345	2788510	71.72%	5.261%
91	25.063	1906	1914	1921	rVB	476512	1604735	41.27%	3.027%
92	25.370	1938	1940	1945	rVB4	6275	15234	0.39%	0.029%
93	27.034	2075	2081	2085	rBV7	21756	94237	2.42%	0.178%
94	27.164	2087	2092	2094	rBV5	19864	63451	1.63%	0.120%
95	28.061	2165	2168	2172	rBV4	5471	14445	0.37%	0.027%
96	28.946	2240	2243	2247	rBV4	4939	18226	0.47%	0.034%
97	30.974	2412	2415	2416	rBV3	6352	14560	0.37%	0.027%
98	31.564	2460	2465	2472	rVV6	12112	53410	1.37%	0.101%
99	31.895	2491	2493	2495	rBV3	9692	19673	0.51%	0.037%
100	32.285	2522	2526	2527	rVV2	4803	12542	0.32%	0.024%

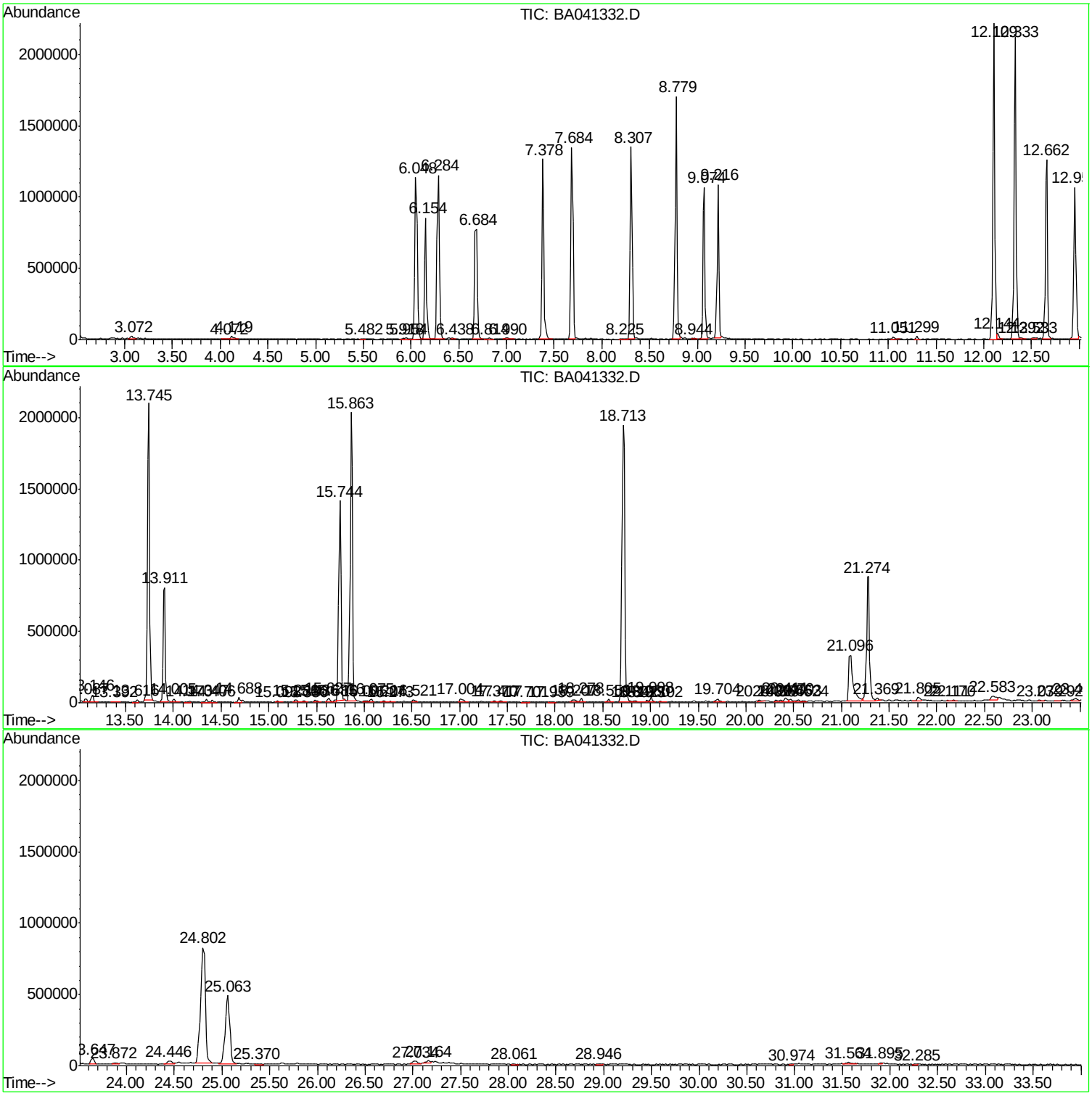
Sum of corrected areas: 53007943

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

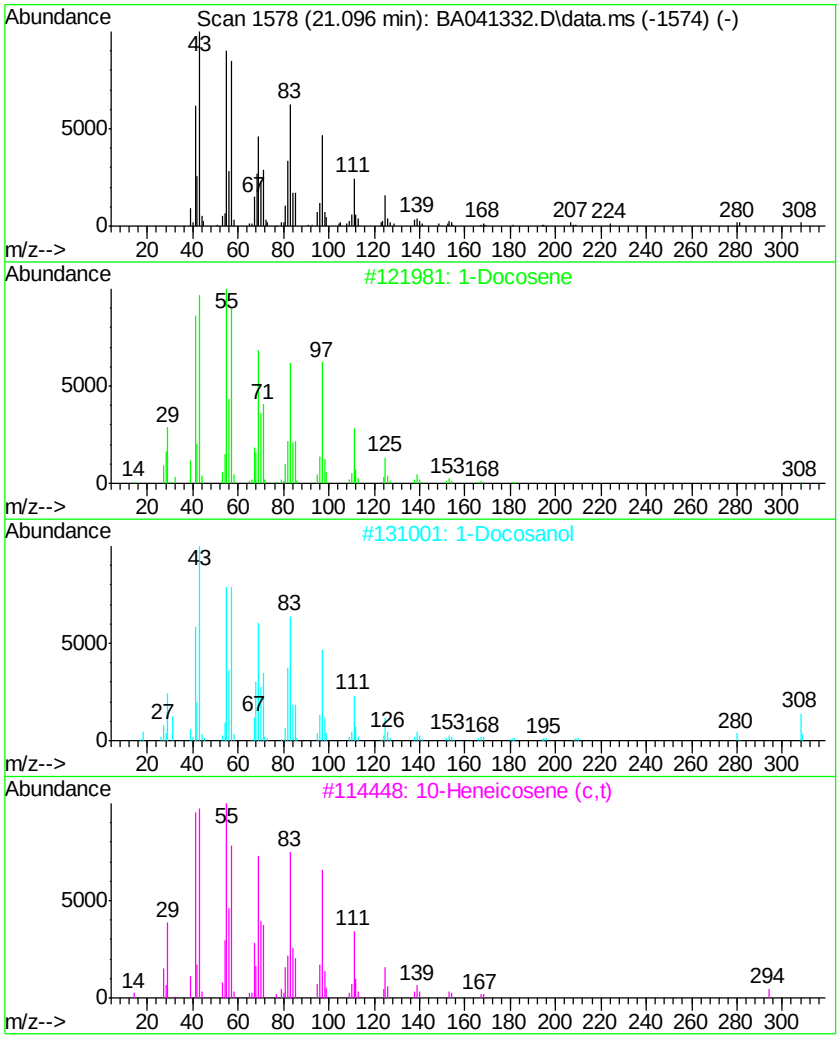
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

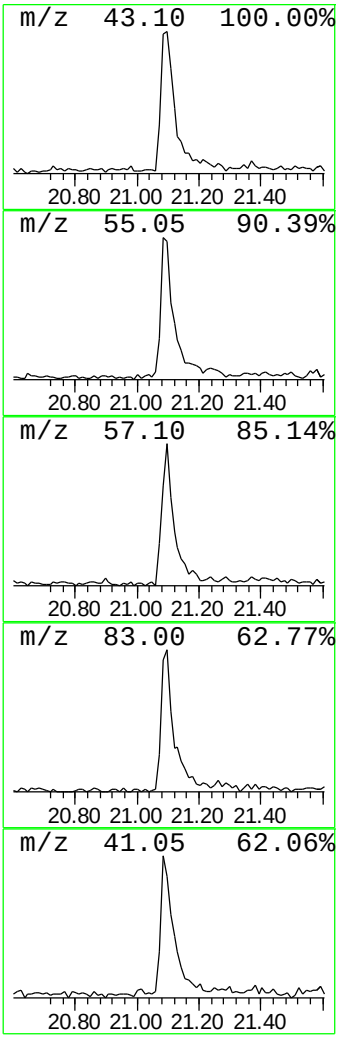
****

Peak Number 1 1-Docosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.100	10.59 ng/ul	994162	Chrysene-d12	21.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	95
2	1-Docosanol	326	C22H46O	000661-19-8	91
3	10-Heneicosene (c,t)	294	C21H42	095008-11-0	91
4	Cyclohexadecane	224	C16H32	000295-65-8	86
5	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	86





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041332.D
Acq On : 20 Oct 2008 21:33
Operator : HNP
Sample : Z4923-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
1-Docosene	21.100	10.6	ng/ul	994162	5	21.286	1877170	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK3B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-16

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041333.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.37 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	39	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACK3B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-16

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041333.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.37 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BACK3B

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4923-16

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041333.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 13.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.37 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

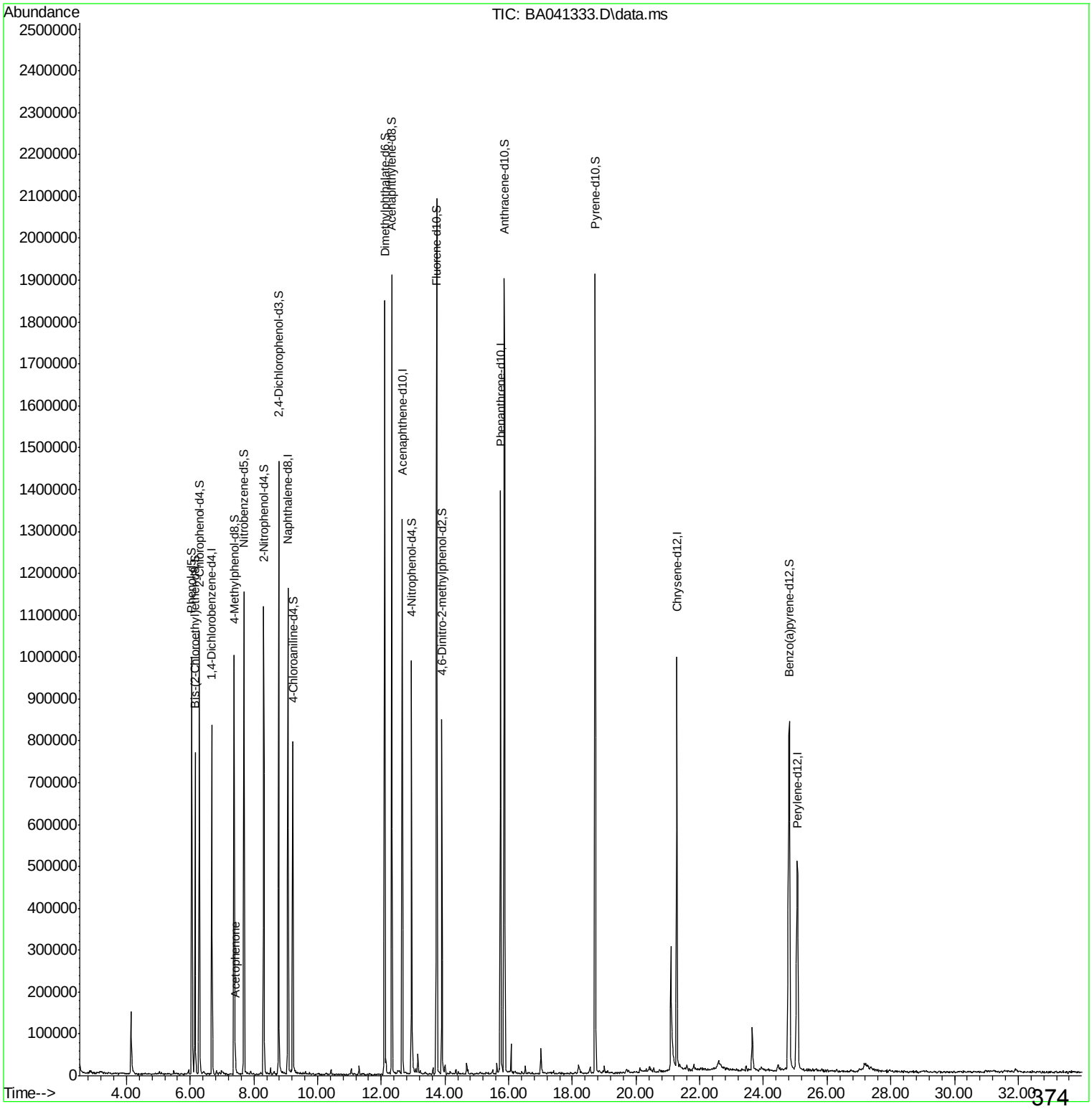
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

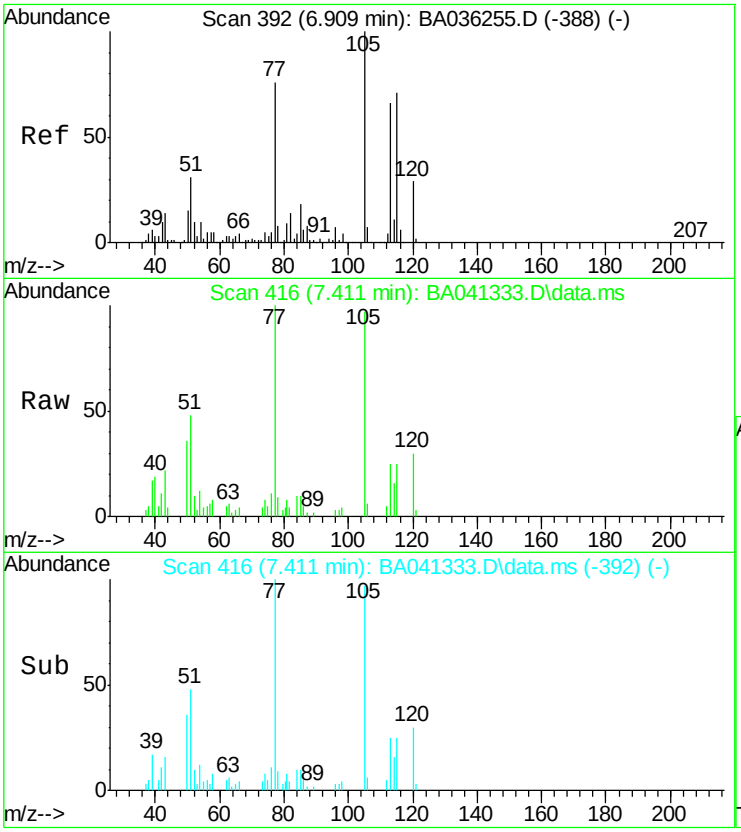
[2]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041333.D
Acq On : 20 Oct 2008 22:14
Operator : HNP
Sample : Z4923-16
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 02:11:58 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

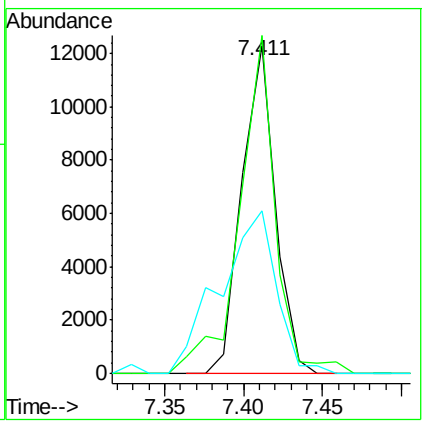




#12
Acetophenone
Concen: 1.03 ng/ul
RT: 7.411 min Scan# 416
Delta R.T. -0.011 min
Lab File: BA041333.D
Acq: 20 Oct 2008 22:14

Tgt Ion:105 Resp: 18036

Ion	Ratio	Lower	Upper
105	100		
77	103.1	69.4	104.2
51	49.5	42.1	63.1



Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041333.D
Acq On : 20 Oct 2008 22:14
Operator : HNP
Sample : Z4923-16
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 02:11:58 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.683	152	218490	20.00	ng/ul	0.00
16) Naphthalene-d8	9.070	136	744872	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.663	164	510836	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.743	188	1008616	20.00	ng/ul	-0.01
73) Chrysene-d12	21.281	240	723446	20.00	ng/ul	0.00
81) Perylene-d12	25.072	264	690742	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.047	99	410345	31.02	ng/ul	-0.01
5) Bis-(2-Chloroethyl)eth...	6.153	67	287435	32.05	ng/ul	0.00
7) 2-Chlorophenol-d4	6.283	132	378309	33.65	ng/ul	-0.01
11) 4-Methylphenol-d8	7.388	113	277637	30.93	ng/ul	0.00
17) Nitrobenzene-d5	7.683	128	198365	30.08	ng/ul	-0.01
20) 2-Nitrophenol-d4	8.305	143	245875	30.29	ng/ul	-0.01
24) 2,4-Dichlorophenol-d3	8.776	165	404953	26.96	ng/ul	-0.01
27) 4-Chloroaniline-d4	9.223	131	354741	23.88	ng/ul	0.00
41) Dimethylphthalate-d6	12.112	166	1147303	33.72	ng/ul	0.00
44) Acenaphthylene-d8	12.334	160	1319732	31.91	ng/ul	0.00
49) 4-Nitrophenol-d4	12.955	143	224935	32.44	ng/ul	0.00
55) Fluorene-d10	13.743	176	905356	33.09	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.908	200	205097	19.65	ng/ul	-0.01
68) Anthracene-d10	15.862	188	1373225	28.44	ng/ul	0.00
74) Pyrene-d10	18.720	212	1431432	45.28	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.813	264	1171497	31.14	ng/ul	0.00
Target Compounds						Qvalue
12) Acetophenone	7.411	105	18036	1.03	ng/ul	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041333.D
Acq On : 20 Oct 2008 22:14
Operator : HNP
Sample : Z4923-16
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\Terastorage\SVOASRV\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041333.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.848	26	28	30	rBV2	6994	10642	0.30%	0.022%
2	3.437	75	78	81	rBV	4747	11562	0.32%	0.023%
3	4.144	134	138	146	rBV	148414	312394	8.69%	0.632%
4	5.084	216	218	223	rVB3	4503	10297	0.29%	0.021%
5	5.952	286	292	294	rBV5	11938	28363	0.79%	0.057%
6	6.047	297	300	305	rBV	995508	1700008	47.27%	3.437%
7	6.153	305	309	315	rVB	767810	1146233	31.87%	2.318%
8	6.283	316	320	325	rVB	1055252	1684573	46.84%	3.406%
9	6.683	351	354	362	rVV	835604	1508189	41.93%	3.049%
10	6.824	362	366	369	rVV2	10326	23889	0.66%	0.048%
11	6.906	371	373	377	rVV	5851	10908	0.30%	0.022%
12	6.987	377	380	383	rVV2	10486	27893	0.78%	0.056%
13	7.376	410	413	423	rBV	1001489	1815875	50.49%	3.672%
14	7.683	436	439	442	rBV	1151362	1752524	48.73%	3.543%
15	7.895	455	457	460	rVV2	8662	20837	0.58%	0.042%
16	8.305	489	492	495	rBV	1117380	1633963	45.43%	3.304%
17	8.528	509	511	514	rVB	17569	25003	0.70%	0.051%
18	8.634	516	520	523	rVV3	7044	13470	0.37%	0.027%
19	8.776	529	532	535	rBV	1462796	2097817	58.33%	4.242%
20	9.070	554	557	560	rBV	1161373	1664722	46.29%	3.366%
21	9.212	566	569	573	rBV	789244	1357906	37.76%	2.746%
22	9.754	611	615	619	rVB3	6099	19451	0.54%	0.039%
23	10.270	657	659	663	rVB	5030	11149	0.31%	0.023%
24	10.423	669	672	675	rVB3	13145	20518	0.57%	0.041%
25	11.056	723	726	731	rVV3	15211	30443	0.85%	0.062%
26	11.151	731	734	741	rVB2	3743	10842	0.30%	0.022%
27	11.302	744	747	750	rVB3	20729	30580	0.85%	0.062%
28	12.112	812	816	818	rBV	1848072	2774561	77.14%	5.610%
29	12.146	818	819	825	rVB3	36006	48993	1.36%	0.099%
30	12.334	831	835	838	rBV	1909257	2932757	81.54%	5.930%
31	12.522	848	851	855	rBV3	8085	22571	0.63%	0.046%
32	12.581	855	856	859	rVB2	8353	10407	0.29%	0.021%
33	12.663	859	863	866	rBV	1325529	2136886	59.41%	4.321%
34	12.955	884	888	891	rBV	985084	1735797	48.26%	3.510%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041333.D
Acq On : 20 Oct 2008 22:14
Operator : HNP
Sample : Z4923-16
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\Terastorage\SVOASRV\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.085	897	899	902	rVB2	10663	12406	0.34%	0.025%
36	13.156	902	905	908	rVV	46559	68865	1.91%	0.139%
37	13.227	908	911	915	rVB3	8051	15840	0.44%	0.032%
38	13.625	941	945	948	rVB2	17463	25634	0.71%	0.052%
39	13.743	951	955	958	rBV	2081841	3249981	90.36%	6.571%
40	13.908	965	969	972	rBV	846294	1310020	36.42%	2.649%
41	14.003	974	977	981	rVB2	23476	49796	1.38%	0.101%
42	14.155	987	990	994	rBV4	8374	23478	0.65%	0.047%
43	14.344	1003	1006	1010	rVB2	11698	22803	0.63%	0.046%
44	14.414	1010	1012	1014	rBV2	7131	12947	0.36%	0.026%
45	14.684	1032	1035	1037	rBV2	26253	41244	1.15%	0.083%
46	14.720	1037	1038	1043	rVV	11399	17934	0.50%	0.036%
47	15.108	1067	1071	1074	rBV3	4865	14702	0.41%	0.030%
48	15.495	1100	1104	1107	rVB2	10991	23887	0.66%	0.048%
49	15.625	1113	1115	1119	rBV3	27045	46966	1.31%	0.095%
50	15.696	1119	1121	1122	rBV2	10967	18114	0.50%	0.037%
51	15.743	1122	1125	1129	rVV	1383676	2305407	64.10%	4.661%
52	15.862	1131	1135	1139	rBV	1894435	3473199	96.57%	7.022%
53	16.073	1150	1153	1157	rVB2	69901	105930	2.95%	0.214%
54	16.190	1160	1163	1164	rBV2	6464	11799	0.33%	0.024%
55	16.413	1179	1182	1184	rBV	7734	13018	0.36%	0.026%
56	16.519	1188	1191	1194	rVB3	18212	28003	0.78%	0.057%
57	17.013	1230	1233	1238	rBV2	62324	118571	3.30%	0.240%
58	17.378	1261	1264	1266	rBV3	5191	13573	0.38%	0.027%
59	17.414	1266	1267	1270	rVB3	8639	12383	0.34%	0.025%
60	18.202	1327	1334	1339	rBV5	21404	78789	2.19%	0.159%
61	18.555	1361	1364	1368	rBV	16571	28100	0.78%	0.057%
62	18.720	1373	1378	1381	rBV	1909221	3596608	100.00%	7.272%
63	18.850	1386	1389	1393	rVV4	7260	21654	0.60%	0.044%
64	18.957	1396	1398	1400	rVV2	7015	10879	0.30%	0.022%
65	19.004	1400	1402	1405	rVV3	19331	31415	0.87%	0.064%
66	19.110	1410	1411	1415	rVB2	6565	11115	0.31%	0.022%
67	19.699	1457	1461	1464	rVV4	9786	28585	0.79%	0.058%
68	19.770	1464	1467	1471	rVB3	5705	15605	0.43%	0.032%
69	20.123	1495	1497	1498	rBV2	11377	14465	0.40%	0.029%
70	20.417	1521	1522	1525	rVB3	9759	15921	0.44%	0.032%
71	20.559	1530	1534	1536	rVB3	10136	21162	0.59%	0.043%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041333.D
Acq On : 20 Oct 2008 22:14
Operator : HNP
Sample : Z4923-16
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\Terastorage\SVOASRV\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

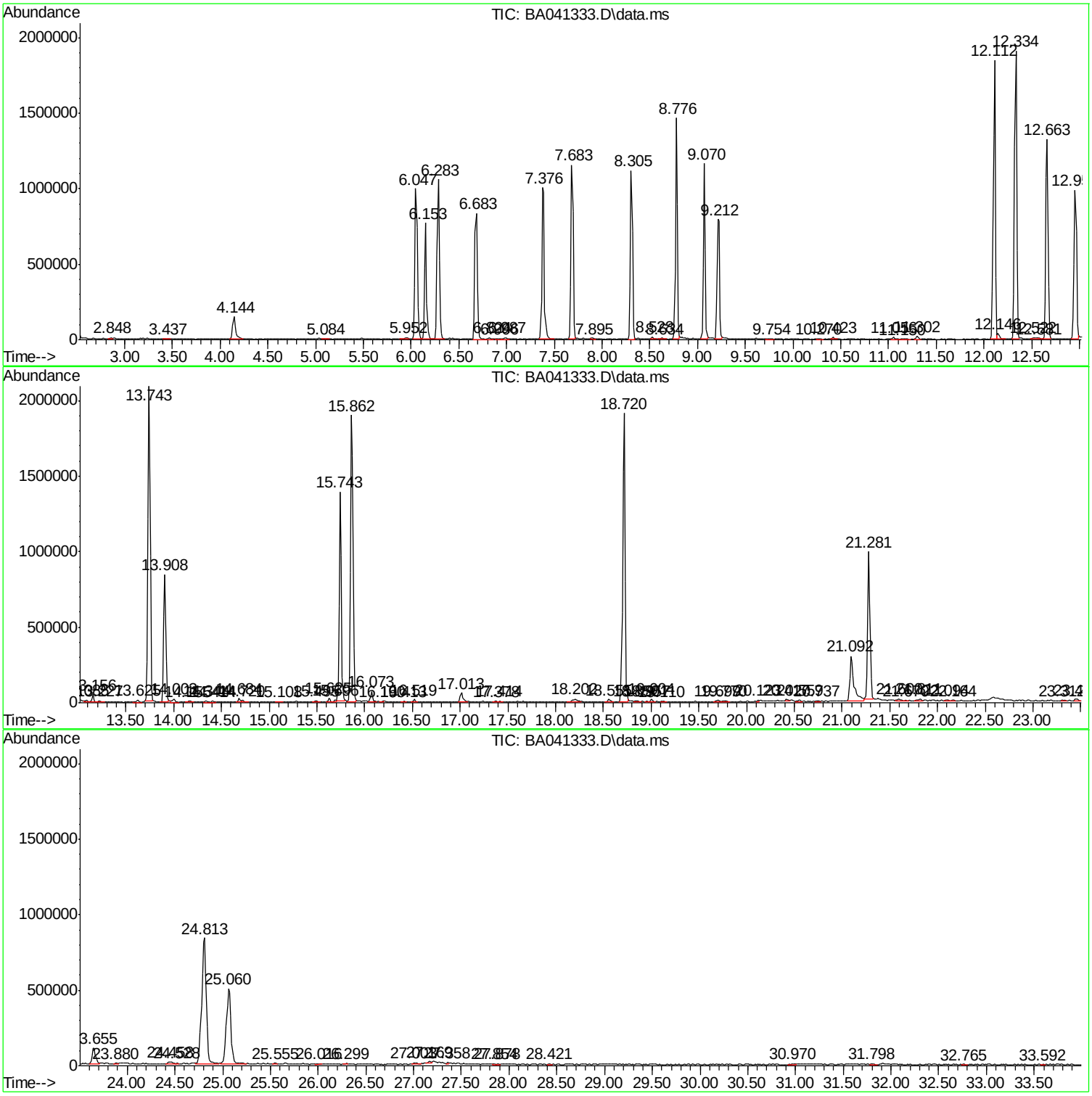
72	20.737	1547	1549	1552	rVB3	6275	13578	0.38%	0.027%
73	21.092	1576	1579	1591	rVV	294566	875880	24.35%	1.771%
74	21.281	1591	1595	1599	rBV	977672	1784772	49.62%	3.609%
75	21.600	1619	1622	1626	rVB5	14483	35788	1.00%	0.072%
76	21.670	1626	1628	1630	rBV3	6301	11447	0.32%	0.023%
77	21.811	1635	1640	1643	rBV6	17756	56761	1.58%	0.115%
78	22.094	1662	1664	1667	rVB4	7044	14047	0.39%	0.028%
79	22.164	1667	1670	1672	rBV4	4717	11049	0.31%	0.022%
80	23.312	1765	1767	1770	rBV4	6691	14902	0.41%	0.030%
81	23.466	1777	1780	1783	rVB5	13717	36830	1.02%	0.074%
82	23.655	1792	1796	1801	rBV	105115	289814	8.06%	0.586%
83	23.880	1813	1815	1817	rBV2	6017	13570	0.38%	0.027%
84	24.458	1859	1864	1868	rBV8	16342	61158	1.70%	0.124%
85	24.528	1868	1870	1871	rVB2	8231	10280	0.29%	0.021%
86	24.813	1886	1894	1906	rVV	831435	2779990	77.29%	5.621%
87	25.060	1908	1915	1931	rVB	499033	1699569	47.25%	3.436%
88	25.555	1954	1957	1958	rBV2	6701	11915	0.33%	0.024%
89	26.016	1992	1996	1998	rVV2	5096	11666	0.32%	0.024%
90	26.299	2017	2020	2021	rBV3	6026	11007	0.31%	0.022%
91	27.003	2078	2080	2086	rBV5	8030	29404	0.82%	0.059%
92	27.169	2090	2094	2096	rBV4	14220	35270	0.98%	0.071%
93	27.358	2108	2110	2111	rBV	7488	10761	0.30%	0.022%
94	27.854	2150	2152	2153	rVB2	7919	10476	0.29%	0.021%
95	27.878	2153	2154	2156	rBV2	8056	10319	0.29%	0.021%
96	28.421	2198	2200	2202	rBV2	5517	11089	0.31%	0.022%
97	30.970	2412	2416	2419	rBV4	5954	20190	0.56%	0.041%
98	31.798	2484	2486	2491	rVB4	6030	11710	0.33%	0.024%
99	32.765	2566	2568	2571	rBV2	4879	10399	0.29%	0.021%
100	33.592	2636	2638	2640	rBV3	5854	11702	0.33%	0.024%

Sum of corrected areas: 49458164

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041333.D
Acq On : 20 Oct 2008 22:14
Operator : HNP
Sample : Z4923-16
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound Report (TIC)
Library Search Report summary

DataPath :: P:\HPCHEM\1\DATA\BA101908\
DataFile :: BA0413.D
AcqOn :: 20 Oct 2008 22:14
Operator :: HNP
Sample :: ZZ4923166
Misc ::
ALSVial :: 22 SampleMultiplier: 1

QuantMethod :: Z:\HPCHEM\1\METHODS\SOM122BA101908.M
QuantTitle :: ASPBNASTANDARDSFOR5PONTCALIBRATION

TICLibrary :: C:\DATABASE\NIST02.L
TICIntegrationParameters: LSCNTP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4923-17

Sample wt/vol: 980 (g/mL) mL Lab File ID: BA041296.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.1	U
108-95-2	Phenol	5.1	U
111-44-4	Bis(2-chloroethyl)ether	5.1	U
95-57-8	2-Chlorophenol	5.1	U
95-48-7	2-Methylphenol	5.1	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.1	U
98-86-2	Acetophenone	5.1	U
106-44-5	4-Methylphenol	5.1	U
621-64-7	N-Nitroso-di-n-propylamine	5.1	U
67-72-1	Hexachloroethane	5.1	U
98-95-3	Nitrobenzene	5.1	U
78-59-1	Isophorone	5.1	U
88-75-5	2-Nitrophenol	5.1	U
105-67-9	2,4-Dimethylphenol	5.1	U
111-91-1	Bis(2-chloroethoxy)methane	5.1	U
120-83-2	2,4-Dichlorophenol	5.1	U
91-20-3	Naphthalene	5.1	U
106-47-8	4-Chloroaniline	5.1	U
87-68-3	Hexachlorobutadiene	5.1	U
105-60-2	Caprolactam	5.1	U
59-50-7	4-Chloro-3-methylphenol	5.1	U
91-57-6	2-Methylnaphthalene	5.1	U
77-47-4	Hexachlorocyclopentadiene	5.1	U
88-06-2	2,4,6-Trichlorophenol	5.1	U
95-95-4	2,4,5-Trichlorophenol	5.1	U
92-52-4	1,1'-Biphenyl	5.1	U
91-58-7	2-Chloronaphthalene	5.1	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.1	U
606-20-2	2,6-Dinitrotoluene	5.1	U
208-96-8	Acenaphthylene	5.1	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.1	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4923-17

Sample wt/vol: 980 (g/mL) mL Lab File ID: BA041296.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.1	U
121-14-2	2,4-Dinitrotoluene	5.1	U
84-66-2	Diethylphthalate	5.1	U
86-73-7	Fluorene	5.1	U
7005-72-3	4-Chlorophenyl-phenylether	5.1	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.1	U
101-55-3	4-Bromophenyl-phenylether	5.1	U
118-74-1	Hexachlorobenzene	5.1	U
1912-24-9	Atrazine	5.1	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.1	U
120-12-7	Anthracene	5.1	U
86-74-8	Carbazole	5.1	U
84-74-2	Di-n-butylphthalate	5.1	U
206-44-0	Fluoranthene	5.1	U
129-00-0	Pyrene	5.1	U
85-68-7	Butylbenzylphthalate	5.1	U
91-94-1	3,3'-Dichlorobenzidine	5.1	U
56-55-3	Benzo(a)anthracene	5.1	U
218-01-9	Chrysene	5.1	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.1	U
117-84-0	Di-n-octylphthalate	5.1	U
205-99-2	Benzo(b)fluoranthene	5.1	U
207-08-9	Benzo(k)fluoranthene	5.1	U
50-32-8	Benzo(a)pyrene	5.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.1	U
53-70-3	Dibenzo(a,h)anthracene	5.1	U
191-24-2	Benzo(g,h,i)perylene	5.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.1	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: Z4923-17

Sample wt/vol: 980 (g/mL) mL Lab File ID: BA041296.D

Level: (TRACE or LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
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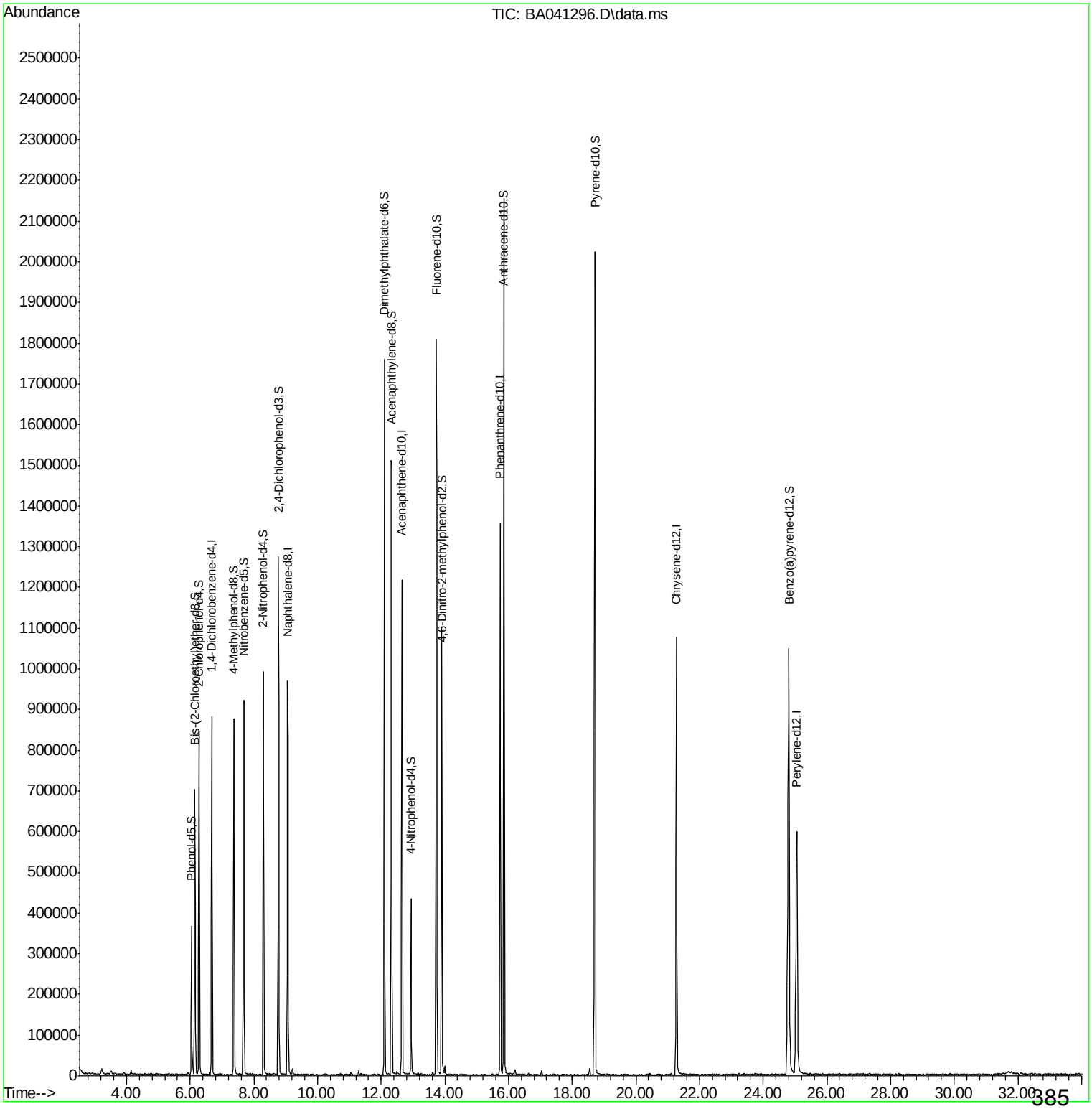
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041296.D
Acq On : 19 Oct 2008 19:20
Operator : QM
Sample : Z4923-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 12:07:10 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041296.D
Acq On : 19 Oct 2008 19:20
Operator : QM
Sample : Z4923-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 12:07:10 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.674	152	223942	20.00	ng/ul	0.00
16) Naphthalene-d8	9.063	136	694462	20.00	ng/ul	-0.02
33) Acenaphthene-d10	12.650	164	487927	20.00	ng/ul	-0.02
59) Phenanthrene-d10	15.740	188	872529	20.00	ng/ul	-0.02
73) Chrysene-d12	21.280	240	1002199	20.00	ng/ul	0.00
81) Perylene-d12	25.050	264	878544	20.00	ng/ul	-0.02
System Monitoring Compounds						
3) Phenol-d5	6.038	99	142829	10.53	ng/ul	-0.02
5) Bis-(2-Chloroethyl)eth...	6.144	67	262524	28.56	ng/ul	0.00
7) 2-Chlorophenol-d4	6.274	132	306668	26.61	ng/ul	-0.02
11) 4-Methylphenol-d8	7.369	113	205145	22.30	ng/ul	-0.02
17) Nitrobenzene-d5	7.688	128	179386	29.18	ng/ul	0.00
20) 2-Nitrophenol-d4	8.299	143	224180	29.62	ng/ul	-0.02
24) 2,4-Dichlorophenol-d3	8.769	165	371091	26.50	ng/ul	-0.02
27) 4-Chloroaniline-d4	9.216	131	5547	0.40	ng/ul	0.00
41) Dimethylphthalate-d6	12.109	166	1060708	32.64	ng/ul	0.00
44) Acenaphthylene-d8	12.333	160	1222824	30.95	ng/ul	0.00
49) 4-Nitrophenol-d4	12.945	143	93792	14.16	ng/ul	-0.02
55) Fluorene-d10	13.733	176	799539	30.59	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.910	200	305979	33.89	ng/ul	0.00
68) Anthracene-d10	15.858	188	1423928m	34.09	ng/ul	0.00
74) Pyrene-d10	18.717	212	1577286	36.02	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.803	264	1489642	31.14	ng/ul	-0.01

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041296.D
Acq On : 19 Oct 2008 19:20
Operator : QM
Sample : Z4923-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041296.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.802	23	24	27	rVV2	2947	6282	0.16%	0.014%
2	2.896	31	32	37	rBV3	3946	9944	0.25%	0.023%
3	3.225	55	60	64	rBV4	14666	48914	1.24%	0.112%
4	3.519	79	85	90	rBV3	8853	32473	0.82%	0.074%
5	3.907	117	118	123	rVB2	7055	12594	0.32%	0.029%
6	4.013	126	127	132	rVB2	3052	7430	0.19%	0.017%
7	4.143	135	138	140	rBV2	9402	14258	0.36%	0.033%
8	4.260	146	148	152	rVB	3300	7476	0.19%	0.017%
9	4.448	158	164	166	rBV2	2712	10226	0.26%	0.023%
10	4.483	166	167	170	rBV	3018	5929	0.15%	0.014%
11	4.919	203	204	206	rBV2	3309	5533	0.14%	0.013%
12	5.237	229	231	234	rVB2	2258	5367	0.14%	0.012%
13	5.307	234	237	239	rBV	3043	6976	0.18%	0.016%
14	5.731	270	273	276	rBV2	2455	6649	0.17%	0.015%
15	5.932	289	290	294	rVB2	5769	8785	0.22%	0.020%
16	6.038	296	299	303	rBV	366346	599282	15.14%	1.369%
17	6.144	305	308	316	rVV	700921	1047824	26.47%	2.393%
18	6.274	316	319	327	rVV	842401	1489807	37.64%	3.403%
19	6.604	345	347	350	rBV	6711	9713	0.25%	0.022%
20	6.674	350	353	358	rVV	880661	1417008	35.80%	3.236%
21	6.934	369	375	378	rBV3	2464	9953	0.25%	0.023%
22	7.369	409	412	415	rBV	876372	1335553	33.74%	3.050%
23	7.688	435	439	442	rBV	919753	1579939	39.92%	3.609%
24	7.959	458	462	465	rVB	3306	6408	0.16%	0.015%
25	8.299	488	491	495	rBV	989933	1518056	38.35%	3.467%
26	8.769	528	531	535	rBV	1272351	1918352	48.47%	4.382%
27	9.063	553	556	560	rBV	962909	1548399	39.12%	3.537%
28	9.216	566	569	574	rVB3	14192	25907	0.65%	0.059%
29	9.440	586	588	590	rBV	2226	5346	0.14%	0.012%
30	9.569	595	599	601	rBV	1943	5591	0.14%	0.013%
31	9.840	621	622	628	rVB	2758	7013	0.18%	0.016%
32	10.510	678	679	683	rBV2	3248	6612	0.17%	0.015%
33	10.711	694	696	698	rVB2	3951	5840	0.15%	0.013%
34	11.052	722	725	726	rBV2	8781	13947	0.35%	0.032%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041296.D
Acq On : 19 Oct 2008 19:20
Operator : QM
Sample : Z4923-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.299	743	746	748	rBV3	12341	20232	0.51%	0.046%
36	11.405	754	755	760	rBV2	2485	6681	0.17%	0.015%
37	11.782	784	787	789	rBV2	2996	5828	0.15%	0.013%
38	11.898	794	797	798	rBV2	3060	6023	0.15%	0.014%
39	12.039	807	809	811	rBV	2754	6000	0.15%	0.014%
40	12.109	811	815	818	rBV	1757337	2641083	66.73%	6.032%
41	12.238	824	826	828	rVB2	3540	6282	0.16%	0.014%
42	12.321	830	833	837	rBV	1508999	2689417	67.95%	6.143%
43	12.498	846	848	853	rBV3	6092	14367	0.36%	0.033%
44	12.650	858	861	865	rBV	1212586	1985188	50.16%	4.534%
45	12.945	882	886	889	rBV	430863	759053	19.18%	1.734%
46	13.157	901	904	906	rBV	4111	6898	0.17%	0.016%
47	13.615	941	943	947	rVB2	6291	10459	0.26%	0.024%
48	13.733	949	953	957	rBV	1806287	3044872	76.93%	6.955%
49	13.898	963	967	971	rBV	1099081	1978166	49.98%	4.518%
50	14.005	974	976	980	rVB3	23246	34888	0.88%	0.080%
51	14.097	982	984	989	rBV	2643	7952	0.20%	0.018%
52	14.379	1006	1008	1010	rVB	3365	5421	0.14%	0.012%
53	14.438	1010	1013	1015	rBV	2548	5723	0.14%	0.013%
54	14.532	1019	1021	1024	rBV	2674	5573	0.14%	0.013%
55	15.740	1120	1124	1127	rBV	1355561	2220310	56.10%	5.071%
56	15.858	1130	1134	1138	rBV	2149362	3634647	91.83%	8.302%
57	16.210	1161	1164	1169	rVB3	12073	22552	0.57%	0.052%
58	16.644	1195	1201	1203	rBV3	5844	16266	0.41%	0.037%
59	16.856	1218	1219	1222	rVB	3486	5388	0.14%	0.012%
60	16.903	1222	1223	1228	rBV2	3450	8343	0.21%	0.019%
61	17.009	1228	1232	1233	rVV3	2703	8238	0.21%	0.019%
62	17.033	1233	1234	1238	rVB	11810	18525	0.47%	0.042%
63	17.304	1254	1257	1259	rBV	3125	6065	0.15%	0.014%
64	17.421	1263	1267	1270	rVB2	2729	7938	0.20%	0.018%
65	18.176	1328	1331	1334	rVB	2934	7321	0.18%	0.017%
66	18.328	1343	1344	1348	rVB	2767	6270	0.16%	0.014%
67	18.551	1360	1363	1365	rVB	16194	24454	0.62%	0.056%
68	18.717	1372	1377	1380	rBV	2022966	3958082	100.00%	9.040%
69	19.105	1406	1410	1412	rBV2	3046	9862	0.25%	0.023%
70	19.645	1453	1456	1459	rBV2	2166	6118	0.15%	0.014%
71	20.281	1505	1510	1511	rBV3	2205	7611	0.19%	0.017%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041296.D
Acq On : 19 Oct 2008 19:20
Operator : QM
Sample : Z4923-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

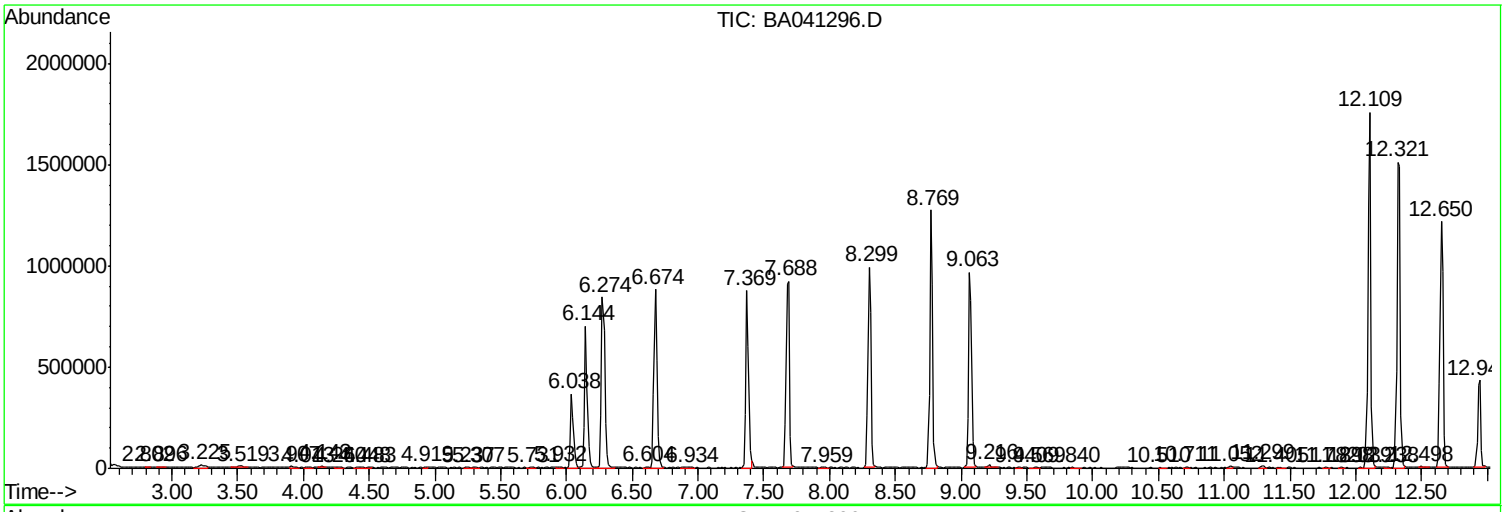
72	20.835	1555	1557	1559	rVB	4329	5631	0.14%	0.013%
73	21.105	1578	1580	1582	rVB	4454	6184	0.16%	0.014%
74	21.268	1590	1594	1603	rBV	1077619	2291565	57.90%	5.234%
75	22.436	1689	1693	1694	rVB2	2566	5935	0.15%	0.014%
76	22.531	1698	1701	1703	rBV	2626	6432	0.16%	0.015%
77	22.755	1719	1720	1724	rBV	2973	5533	0.14%	0.013%
78	22.931	1734	1735	1738	rBV	2988	5598	0.14%	0.013%
79	23.049	1742	1745	1747	rBV3	3702	7332	0.19%	0.017%
80	24.401	1855	1860	1862	rBV2	2942	6353	0.16%	0.015%
81	24.495	1865	1868	1871	rVB2	2652	5466	0.14%	0.012%
82	24.803	1886	1894	1903	rBV	1045412	3419565	86.39%	7.810%
83	25.050	1908	1915	1926	rVB	592650	1952696	49.33%	4.460%
84	25.464	1949	1950	1955	rVB2	3356	7355	0.19%	0.017%
85	25.865	1982	1984	1986	rVB2	4438	5591	0.14%	0.013%
86	29.197	2265	2267	2268	rBV2	2999	5538	0.14%	0.013%
87	29.314	2274	2277	2278	rBV2	2405	5443	0.14%	0.012%
88	29.420	2284	2286	2289	rVB2	3319	7352	0.19%	0.017%
89	29.987	2333	2334	2337	rBV2	2824	5507	0.14%	0.013%
90	31.526	2463	2465	2469	rBV3	3459	10784	0.27%	0.025%
91	31.656	2473	2476	2477	rBV2	3205	6024	0.15%	0.014%
92	31.798	2486	2488	2490	rVV3	3221	5406	0.14%	0.012%
93	31.868	2493	2494	2498	rVB3	4385	9812	0.25%	0.022%
94	31.928	2498	2499	2503	rBV3	3776	8958	0.23%	0.020%
95	31.987	2503	2504	2508	rVB2	3974	8195	0.21%	0.019%
96	32.446	2542	2543	2545	rVB	4450	5928	0.15%	0.014%
97	32.541	2547	2551	2553	rVV3	3596	7607	0.19%	0.017%
98	33.096	2596	2598	2599	rBV	2951	5364	0.14%	0.012%
99	33.202	2604	2607	2608	rBV2	2552	5580	0.14%	0.013%
100	33.651	2643	2645	2648	rBV2	2489	6314	0.16%	0.014%

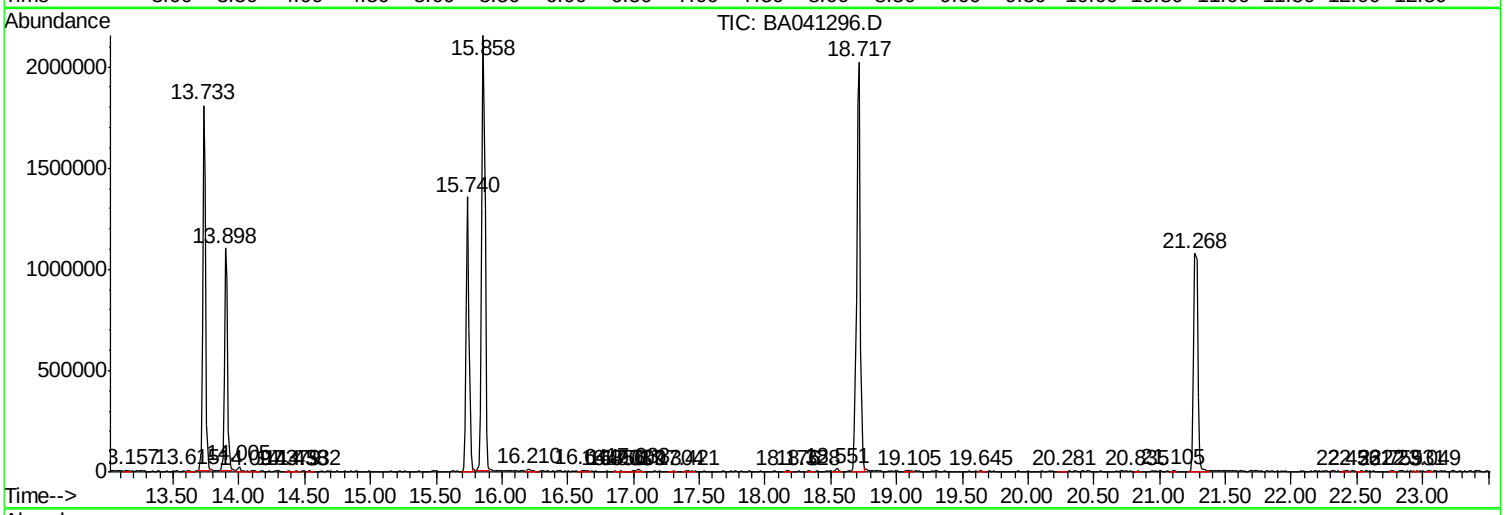
Sum of corrected areas: 43782530

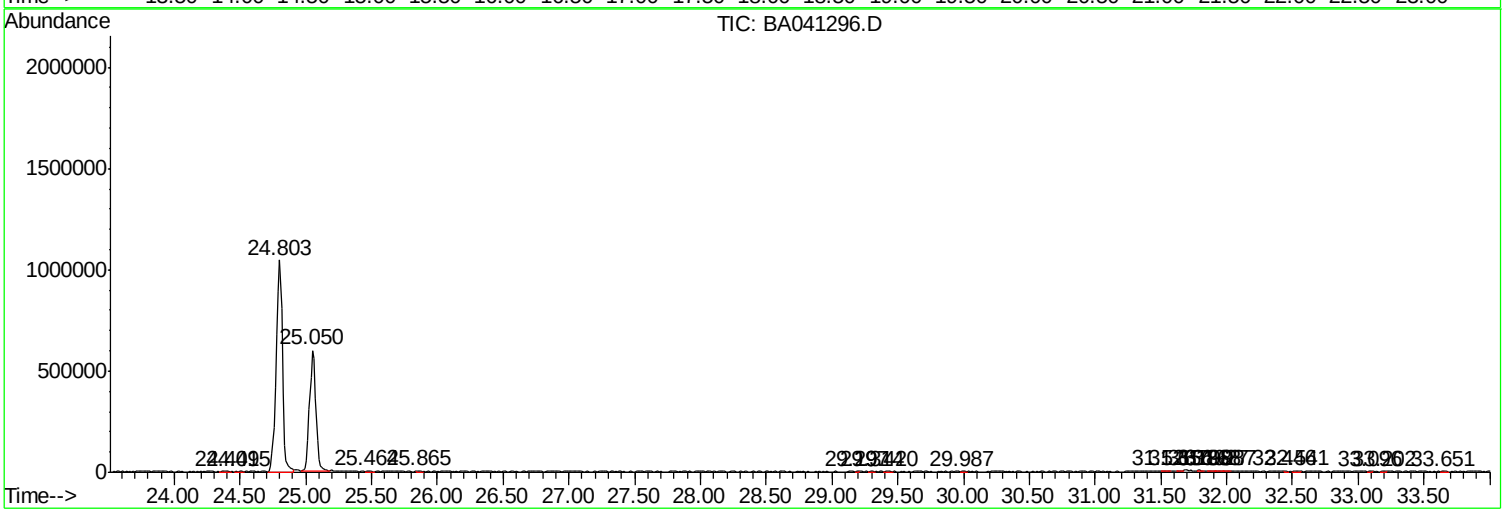
Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041296.D
Acq On : 19 Oct 2008 19:20
Operator : QM
Sample : Z4923-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound Report (TIC)
Library Search Results summary

```
DataPath  :: P:\HPCHEM\1\DATA\BA101908\
DataFile  :: BA0412.D
AcqOn     :: 19 Oct 2008 19:20
Operator  :: QM
Sample    :: Z4923177
Misc      :: 
ALSVial   :: 99  Sample Multiplier: 1

QuantMethod :: Z:\HPCHEM\1\METHODS\OMM122.M
QuantTitle  :: ASPBNASTANDARDSFOR55POINTCALIBRATION

TICLibrary  :: C:\DATABASE\NIST02.L
TICIntegrationParameters: LSCNTP
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB_

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4923-18

Sample wt/vol: 940 (g/mL) mL Lab File ID: BA041297.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.3	U
108-95-2	Phenol	5.3	U
111-44-4	Bis(2-chloroethyl)ether	5.3	U
95-57-8	2-Chlorophenol	5.3	U
95-48-7	2-Methylphenol	5.3	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.3	U
98-86-2	Acetophenone	5.3	U
106-44-5	4-Methylphenol	5.3	U
621-64-7	N-Nitroso-di-n-propylamine	5.3	U
67-72-1	Hexachloroethane	5.3	U
98-95-3	Nitrobenzene	5.3	U
78-59-1	Isophorone	5.3	U
88-75-5	2-Nitrophenol	5.3	U
105-67-9	2,4-Dimethylphenol	5.3	U
111-91-1	Bis(2-chloroethoxy)methane	5.3	U
120-83-2	2,4-Dichlorophenol	5.3	U
91-20-3	Naphthalene	5.3	U
106-47-8	4-Chloroaniline	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
105-60-2	Caprolactam	5.3	U
59-50-7	4-Chloro-3-methylphenol	5.3	U
91-57-6	2-Methylnaphthalene	5.3	U
77-47-4	Hexachlorocyclopentadiene	5.3	U
88-06-2	2,4,6-Trichlorophenol	5.3	U
95-95-4	2,4,5-Trichlorophenol	5.3	U
92-52-4	1,1'-Biphenyl	5.3	U
91-58-7	2-Chloronaphthalene	5.3	U
88-74-4	2-Nitroaniline	11	U
131-11-3	Dimethylphthalate	5.3	U
606-20-2	2,6-Dinitrotoluene	5.3	U
208-96-8	Acenaphthylene	5.3	U
99-09-2	3-Nitroaniline	11	U
83-32-9	Acenaphthene	5.3	U
51-28-5	2,4-Dinitrophenol	11	U
100-02-7	4-Nitrophenol	11	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB_

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4923-18

Sample wt/vol: 940 (g/mL) mL Lab File ID: BA041297.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.3	U
121-14-2	2,4-Dinitrotoluene	5.3	U
84-66-2	Diethylphthalate	5.3	U
86-73-7	Fluorene	5.3	U
7005-72-3	4-Chlorophenyl-phenylether	5.3	U
100-01-6	4-Nitroaniline	11	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U
86-30-6	N-Nitrosodiphenylamine[1]	5.3	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.3	U
101-55-3	4-Bromophenyl-phenylether	5.3	U
118-74-1	Hexachlorobenzene	5.3	U
1912-24-9	Atrazine	5.3	U
87-86-5	Pentachlorophenol	11	U
85-01-8	Phenanthrene	5.3	U
120-12-7	Anthracene	5.3	U
86-74-8	Carbazole	5.3	U
84-74-2	Di-n-butylphthalate	5.3	U
206-44-0	Fluoranthene	5.3	U
129-00-0	Pyrene	5.3	U
85-68-7	Butylbenzylphthalate	5.3	U
91-94-1	3,3'-Dichlorobenzidine	5.3	U
56-55-3	Benzo(a)anthracene	5.3	U
218-01-9	Chrysene	5.3	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.3	U
117-84-0	Di-n-octylphthalate	5.3	U
205-99-2	Benzo(b)fluoranthene	5.3	U
207-08-9	Benzo(k)fluoranthene	5.3	U
50-32-8	Benzo(a)pyrene	5.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.3	U
53-70-3	Dibenzo(a,h)anthracene	5.3	U
191-24-2	Benzo(g,h,i)perylene	5.3	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.3	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB_

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: Z4923-18

Sample wt/vol: 940 (g/mL) mL Lab File ID: BA041297.D

Level: (TRACE or LOW/MED) _____ Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

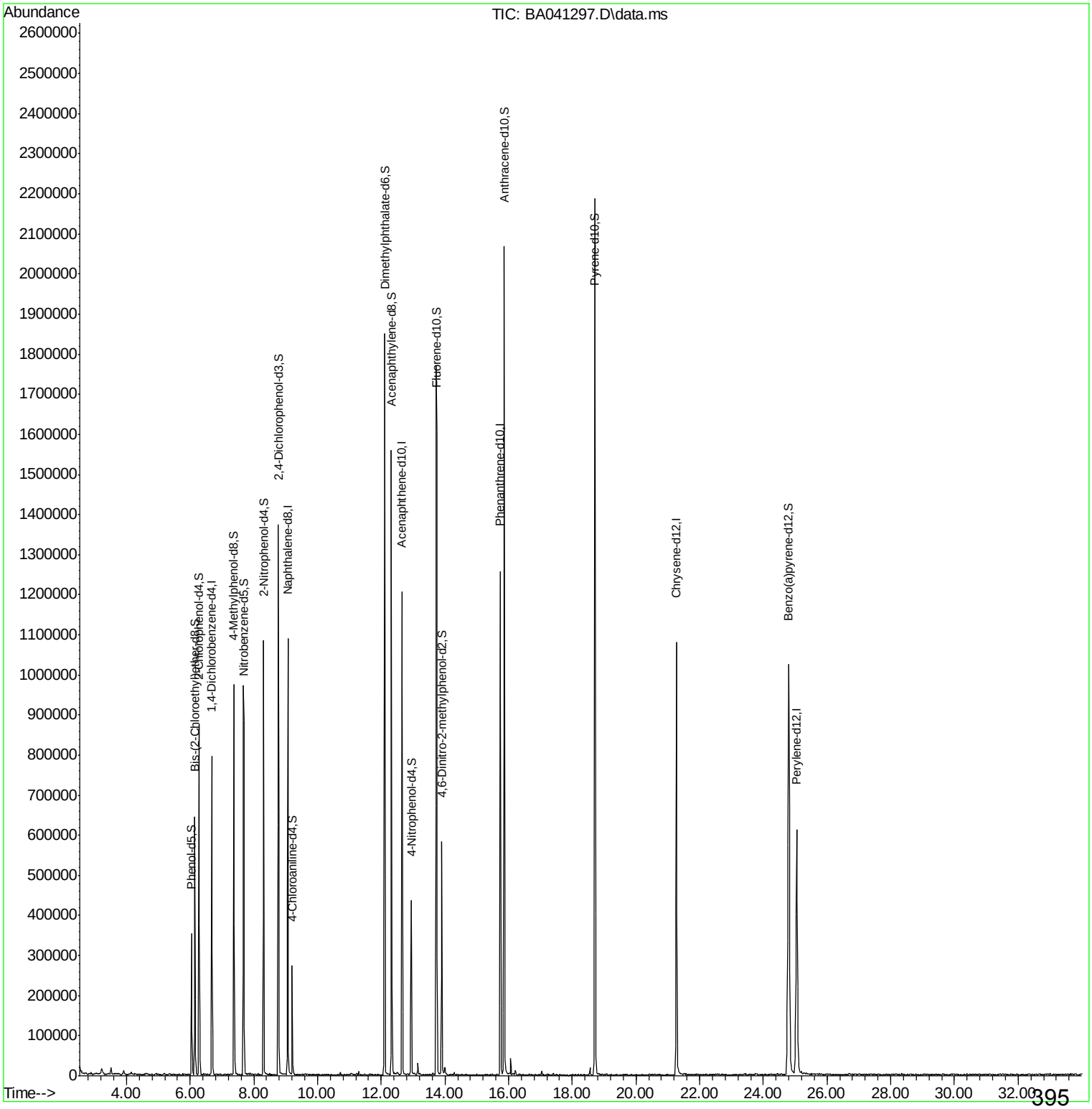
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041297.D
Acq On : 19 Oct 2008 20:02
Operator : QM
Sample : Z4923-18
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 12:08:16 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041297.D
Acq On : 19 Oct 2008 20:02
Operator : QM
Sample : Z4923-18
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 12:08:16 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.680	152	205008	20.00	ng/ul	0.00
16) Naphthalene-d8	9.066	136	664770	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.650	164	480503	20.00	ng/ul	-0.02
59) Phenanthrene-d10	15.739	188	816789	20.00	ng/ul	-0.02
73) Chrysene-d12	21.278	240	962239	20.00	ng/ul	-0.01
81) Perylene-d12	25.056	264	890380	20.00	ng/ul	-0.02
System Monitoring Compounds						
3) Phenol-d5	6.046	99	141608	11.41	ng/ul	-0.01
5) Bis-(2-Chloroethyl)eth...	6.151	67	256500	30.48	ng/ul	0.00
7) 2-Chlorophenol-d4	6.281	132	310166	29.40	ng/ul	-0.01
11) 4-Methylphenol-d8	7.373	113	209971	24.93	ng/ul	-0.01
17) Nitrobenzene-d5	7.689	128	180245	30.63	ng/ul	0.00
20) 2-Nitrophenol-d4	8.302	143	225363	31.11	ng/ul	-0.01
24) 2,4-Dichlorophenol-d3	8.772	165	372825	27.81	ng/ul	-0.02
27) 4-Chloroaniline-d4	9.208	131	90196	6.80	ng/ul	-0.01
41) Dimethylphthalate-d6	12.109	166	1126427	35.20	ng/ul	0.00
44) Acenaphthylene-d8	12.321	160	1199890	30.84	ng/ul	-0.02
49) 4-Nitrophenol-d4	12.945	143	98619	15.12	ng/ul	-0.02
55) Fluorene-d10	13.745	176	846821	32.90	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.898	200	139430	16.50	ng/ul	-0.02
68) Anthracene-d10	15.857	188	1514283	38.73	ng/ul	0.00
74) Pyrene-d10	18.709	212	1667697	39.66	ng/ul	-0.01
85) Benzo(a)pyrene-d12	24.796	264	1591215	32.82	ng/ul	-0.02

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041297.D
Acq On : 19 Oct 2008 20:02
Operator : QM
Sample : Z4923-18
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041297.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.695	13	15	22	rVB3	4564	15303	0.36%	0.035%
2	3.059	44	46	51	rBV2	3395	9943	0.24%	0.023%
3	3.212	54	59	65	rVV5	13764	47546	1.13%	0.108%
4	3.518	82	85	89	rVB2	17073	33804	0.80%	0.077%
5	3.906	112	118	126	rVB4	10221	29516	0.70%	0.067%
6	4.153	137	139	142	rVB2	6195	10536	0.25%	0.024%
7	4.259	147	148	151	rBV	3902	6022	0.14%	0.014%
8	4.494	167	168	172	rBV	2948	6805	0.16%	0.015%
9	5.529	254	256	258	rBV	3200	6018	0.14%	0.014%
10	5.870	283	285	287	rBV2	2718	6082	0.14%	0.014%
11	5.929	289	290	293	rVV	3209	6961	0.17%	0.016%
12	6.046	296	300	305	rVV	353502	622832	14.80%	1.412%
13	6.151	305	309	314	rVV	644548	1040254	24.71%	2.359%
14	6.281	316	320	326	rVV	874168	1486928	35.32%	3.372%
15	6.468	334	336	340	rVB2	3522	8517	0.20%	0.019%
16	6.527	340	341	346	rBV2	3595	9099	0.22%	0.021%
17	6.680	350	354	360	rVV	795737	1409687	33.49%	3.197%
18	6.810	363	365	369	rVB	2871	6947	0.17%	0.016%
19	7.373	410	413	416	rBV	971880	1360148	32.31%	3.084%
20	7.677	436	439	442	rBV	971785	1600565	38.02%	3.630%
21	7.878	455	456	459	rVV	4573	8205	0.19%	0.019%
22	8.302	489	492	495	rBV	1081936	1522945	36.18%	3.453%
23	8.501	507	509	511	rVB	4982	7366	0.17%	0.017%
24	8.772	529	532	535	rBV	1372221	1963003	46.63%	4.451%
25	9.066	554	557	560	rBV	1083616	1509737	35.86%	3.424%
26	9.208	566	569	572	rBV	270797	377700	8.97%	0.856%
27	9.618	600	604	607	rBV3	3139	10676	0.25%	0.024%
28	9.677	607	609	613	rVB2	2657	5512	0.13%	0.012%
29	10.051	637	641	643	rBV	2601	5585	0.13%	0.013%
30	10.710	695	697	699	rBV	7178	10463	0.25%	0.024%
31	11.051	723	726	728	rBV2	4255	10504	0.25%	0.024%
32	11.298	745	747	749	rVB3	9442	14091	0.33%	0.032%
33	11.345	749	751	756	rVB	3239	6880	0.16%	0.016%
34	11.485	760	763	768	rVB2	3140	8390	0.20%	0.019%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041297.D
Acq On : 19 Oct 2008 20:02
Operator : QM
Sample : Z4923-18
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.109	812	816	819	rBV	1849214	2829531	67.21%	6.416%
36	12.239	823	827	829	rVB2	3351	9485	0.23%	0.022%
37	12.321	831	834	838	rBV	1556758	2653405	63.03%	6.017%
38	12.497	848	849	855	rVB4	5278	12968	0.31%	0.029%
39	12.650	859	862	866	rBV	1202681	1971871	46.84%	4.472%
40	12.815	872	876	877	rBV	2301	5360	0.13%	0.012%
41	12.945	883	887	890	rVV	435443	767372	18.23%	1.740%
42	13.039	892	895	898	rVV2	5237	14665	0.35%	0.033%
43	13.145	901	904	907	rBV2	29257	44876	1.07%	0.102%
44	13.216	908	910	916	rVB4	4390	11929	0.28%	0.027%
45	13.322	916	919	924	rBV2	2126	7313	0.17%	0.017%
46	13.615	941	944	946	rBV2	4857	9972	0.24%	0.023%
47	13.733	951	954	958	rBV	1764719	3141968	74.64%	7.125%
48	13.898	965	968	973	rBV	577197	909433	21.60%	2.062%
49	14.004	974	977	980	rVV2	17241	34941	0.83%	0.079%
50	14.285	1000	1001	1005	rVB2	6055	8959	0.21%	0.020%
51	14.990	1060	1061	1064	rBV	3066	5729	0.14%	0.013%
52	15.328	1086	1090	1094	rBV	2712	6635	0.16%	0.015%
53	15.481	1100	1103	1106	rBV2	3207	10183	0.24%	0.023%
54	15.739	1121	1125	1129	rBV	1257942	2158481	51.27%	4.895%
55	15.857	1131	1135	1139	rBV	2063554	3903004	92.71%	8.851%
56	16.010	1146	1148	1151	rBV2	2292	5929	0.14%	0.013%
57	16.069	1151	1153	1155	rVV2	40319	53124	1.26%	0.120%
58	16.210	1162	1165	1169	rBV2	11110	22024	0.52%	0.050%
59	16.646	1199	1202	1204	rBV	3682	5434	0.13%	0.012%
60	16.717	1206	1208	1212	rVB	2631	6261	0.15%	0.014%
61	17.034	1233	1235	1237	rBV	9780	12782	0.30%	0.029%
62	17.223	1247	1251	1253	rVB	3353	6514	0.15%	0.015%
63	17.412	1261	1267	1268	rBV3	4090	9920	0.24%	0.022%
64	17.506	1272	1275	1280	rVB3	2461	8189	0.19%	0.019%
65	18.556	1360	1364	1368	rBV	19652	36289	0.86%	0.082%
66	18.709	1373	1377	1381	rBV	2182722	4209733	100.00%	9.546%
67	19.228	1418	1421	1425	rVB2	3318	8747	0.21%	0.020%
68	19.558	1444	1449	1451	rBV	1646	5599	0.13%	0.013%
69	20.994	1568	1571	1572	rBV	3407	7101	0.17%	0.016%
70	21.278	1590	1595	1605	rBV	1078637	2216893	52.66%	5.027%
71	21.925	1648	1650	1656	rVB2	2820	9987	0.24%	0.023%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041297.D
Acq On : 19 Oct 2008 20:02
Operator : QM
Sample : Z4923-18
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

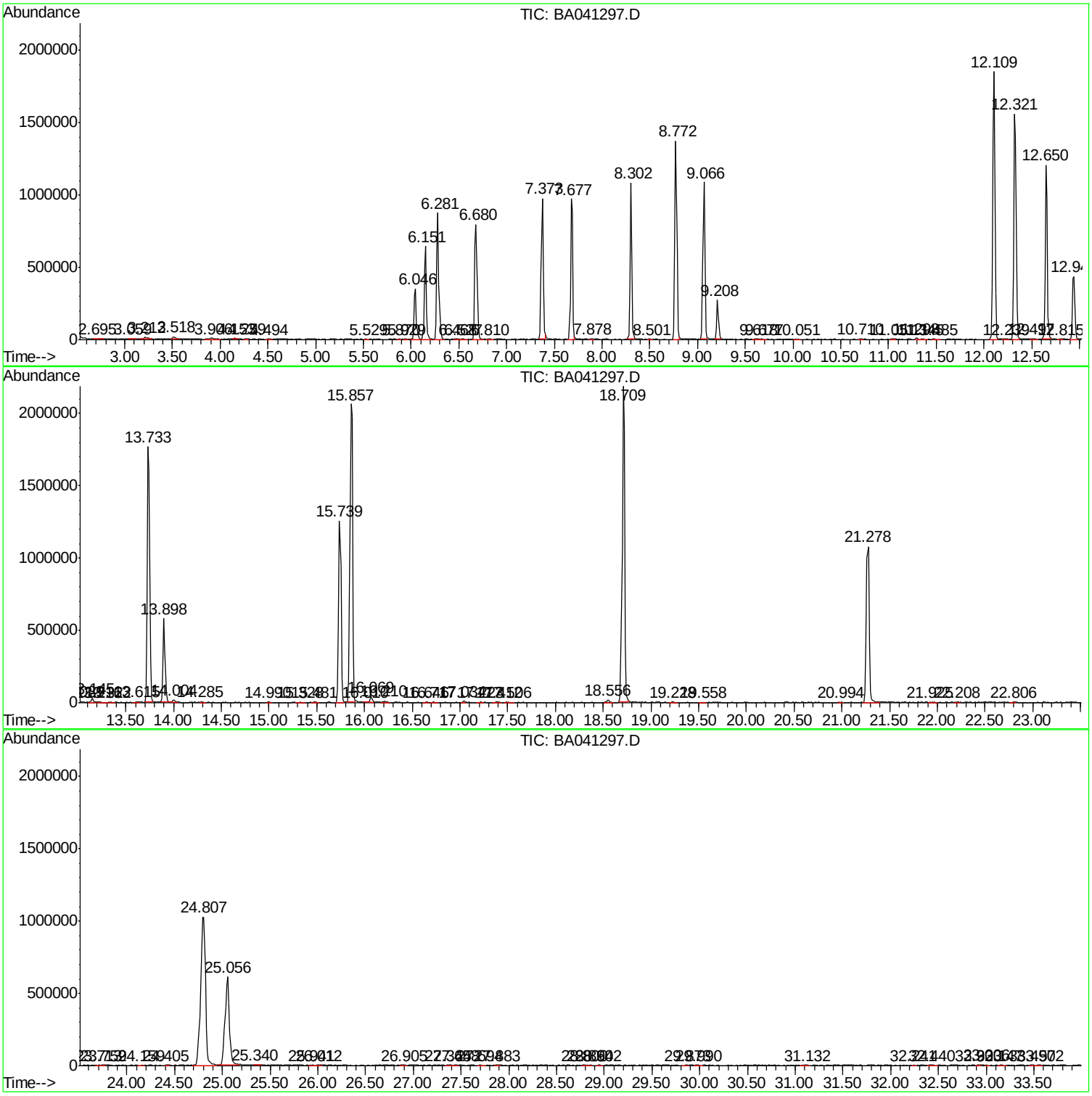
72	22.208	1671	1674	1676	rBV2	2698	6598	0.16%	0.015%
73	22.806	1721	1725	1726	rBV2	1858	5472	0.13%	0.012%
74	23.713	1798	1802	1803	rBV	2421	5555	0.13%	0.013%
75	23.759	1803	1806	1807	rBV	3754	6726	0.16%	0.015%
76	24.159	1836	1840	1842	rBV2	2663	5824	0.14%	0.013%
77	24.405	1860	1861	1864	rBV2	2526	5506	0.13%	0.012%
78	24.807	1885	1895	1906	rBV	1024735	3637537	86.41%	8.249%
79	25.056	1908	1916	1926	rVV	607717	1950296	46.33%	4.423%
80	25.340	1939	1940	1946	rVB3	3541	9604	0.23%	0.022%
81	25.941	1988	1991	1993	rBV2	3387	7091	0.17%	0.016%
82	26.012	1993	1997	1999	rBV3	3356	8082	0.19%	0.018%
83	26.905	2069	2073	2075	rVB2	4137	11523	0.27%	0.026%
84	27.364	2109	2112	2116	rBV2	2629	8473	0.20%	0.019%
85	27.458	2116	2120	2121	rBV3	2331	5572	0.13%	0.013%
86	27.694	2138	2140	2145	rVB2	2514	7414	0.18%	0.017%
87	27.883	2153	2156	2158	rBV3	2793	7641	0.18%	0.017%
88	28.800	2231	2234	2235	rBV3	3045	5835	0.14%	0.013%
89	28.860	2235	2239	2240	rVV2	2478	5883	0.14%	0.013%
90	28.942	2244	2246	2249	rBV	2542	7470	0.18%	0.017%
91	29.873	2320	2325	2326	rBV	2713	5804	0.14%	0.013%
92	29.990	2331	2335	2338	rVV3	2339	6639	0.16%	0.015%
93	31.132	2425	2432	2433	rVB	2581	7257	0.17%	0.016%
94	32.241	2524	2526	2528	rVB	4034	6332	0.15%	0.014%
95	32.440	2538	2543	2547	rBV2	2267	6399	0.15%	0.015%
96	32.923	2581	2584	2586	rBV2	2556	6742	0.16%	0.015%
97	33.006	2589	2591	2593	rBV3	4260	5470	0.13%	0.012%
98	33.147	2601	2603	2608	rBV	1715	5567	0.13%	0.013%
99	33.490	2629	2632	2634	rVB	2208	5545	0.13%	0.013%
100	33.572	2634	2639	2640	rBV2	2298	7571	0.18%	0.017%

Sum of corrected areas: 44098604

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041297.D
Acq On : 19 Oct 2008 20:02
Operator : QM
Sample : Z4923-18
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound Report (TIC)
Library Search Results summary

```
DataPath   :: P:\HPCHEM\1\DATA\BA101908\
DataFile   :: BA041297.D
AcqOn      :: 19-Oct-2008 20:00:02
Operator   :: QM
Sample     :: ZZ4923188
Misc       ::
ALSVial    :: 100  SampleMultiplier: 1.1

QuantMethod :: Z:\HPCHEM\1\METHODS\SOM0122BA101908.M
QuantTitle  :: ASPBNASTANDARDSFOR55POINTCALIBRATION

TICLibrary  :: C:\DATABASES\NIST02.L
TICIntegrationParameters: LSCNTP
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4923-19

Sample wt/vol: 920 (g/mL) mL Lab File ID: BA041298.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.4	U
108-95-2	Phenol	5.4	U
111-44-4	Bis(2-chloroethyl)ether	5.4	U
95-57-8	2-Chlorophenol	5.4	U
95-48-7	2-Methylphenol	5.4	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.4	U
98-86-2	Acetophenone	5.4	U
106-44-5	4-Methylphenol	5.4	U
621-64-7	N-Nitroso-di-n-propylamine	5.4	U
67-72-1	Hexachloroethane	5.4	U
98-95-3	Nitrobenzene	5.4	U
78-59-1	Isophorone	5.4	U
88-75-5	2-Nitrophenol	5.4	U
105-67-9	2,4-Dimethylphenol	5.4	U
111-91-1	Bis(2-chloroethoxy)methane	5.4	U
120-83-2	2,4-Dichlorophenol	5.4	U
91-20-3	Naphthalene	5.4	U
106-47-8	4-Chloroaniline	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
105-60-2	Caprolactam	5.4	U
59-50-7	4-Chloro-3-methylphenol	5.4	U
91-57-6	2-Methylnaphthalene	5.4	U
77-47-4	Hexachlorocyclopentadiene	5.4	U
88-06-2	2,4,6-Trichlorophenol	5.4	U
95-95-4	2,4,5-Trichlorophenol	5.4	U
92-52-4	1,1'-Biphenyl	5.4	U
91-58-7	2-Chloronaphthalene	5.4	U
88-74-4	2-Nitroaniline	11	U
131-11-3	Dimethylphthalate	5.4	U
606-20-2	2,6-Dinitrotoluene	5.4	U
208-96-8	Acenaphthylene	5.4	U
99-09-2	3-Nitroaniline	11	U
83-32-9	Acenaphthene	5.4	U
51-28-5	2,4-Dinitrophenol	11	U
100-02-7	4-Nitrophenol	11	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4923-19

Sample wt/vol: 920 (g/mL) mL Lab File ID: BA041298.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.4	U
121-14-2	2,4-Dinitrotoluene	5.4	U
84-66-2	Diethylphthalate	5.4	U
86-73-7	Fluorene	5.4	U
7005-72-3	4-Chlorophenyl-phenylether	5.4	U
100-01-6	4-Nitroaniline	11	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U
86-30-6	N-Nitrosodiphenylamine[1]	5.4	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.4	U
101-55-3	4-Bromophenyl-phenylether	5.4	U
118-74-1	Hexachlorobenzene	5.4	U
1912-24-9	Atrazine	5.4	U
87-86-5	Pentachlorophenol	11	U
85-01-8	Phenanthrene	5.4	U
120-12-7	Anthracene	5.4	U
86-74-8	Carbazole	5.4	U
84-74-2	Di-n-butylphthalate	5.4	U
206-44-0	Fluoranthene	5.4	U
129-00-0	Pyrene	5.4	U
85-68-7	Butylbenzylphthalate	5.4	U
91-94-1	3,3'-Dichlorobenzidine	5.4	U
56-55-3	Benzo(a)anthracene	5.4	U
218-01-9	Chrysene	5.4	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.4	U
117-84-0	Di-n-octylphthalate	5.4	U
205-99-2	Benzo(b)fluoranthene	5.4	U
207-08-9	Benzo(k)fluoranthene	5.4	U
50-32-8	Benzo(a)pyrene	5.4	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.4	U
53-70-3	Dibenzo(a,h)anthracene	5.4	U
191-24-2	Benzo(g,h,i)perylene	5.4	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.4	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: Z4923-19

Sample wt/vol: 920 (g/mL) mL Lab File ID: BA041298.D

Level: (TRACE or LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

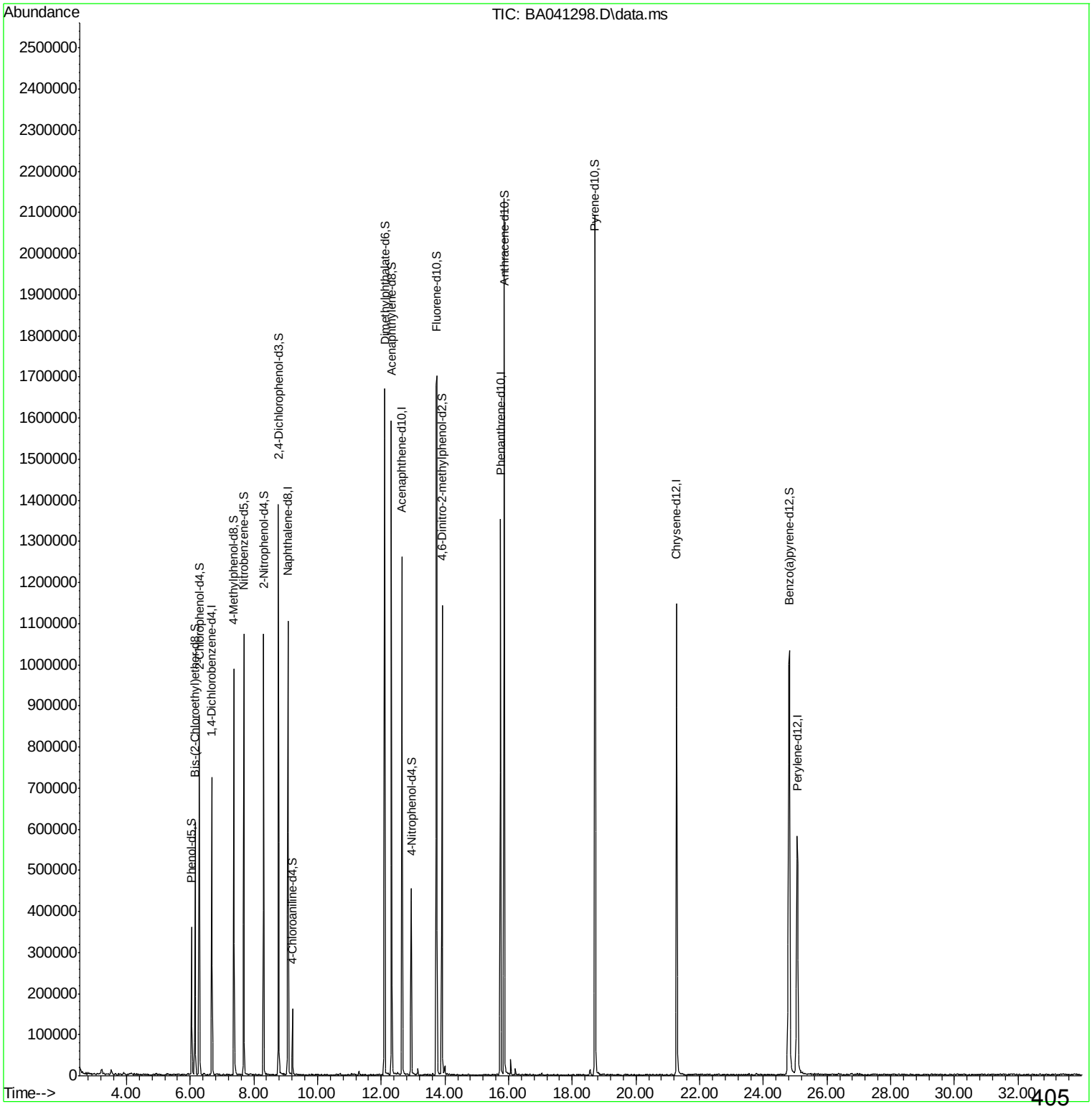
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

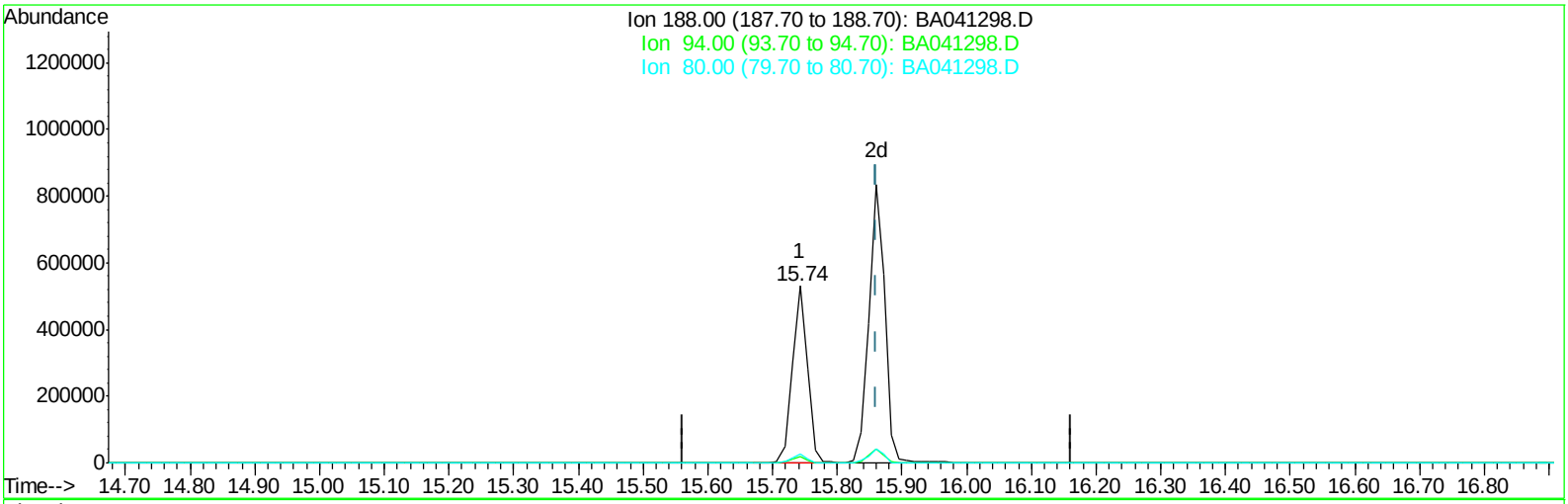
Quant Time: Oct 20 12:09:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

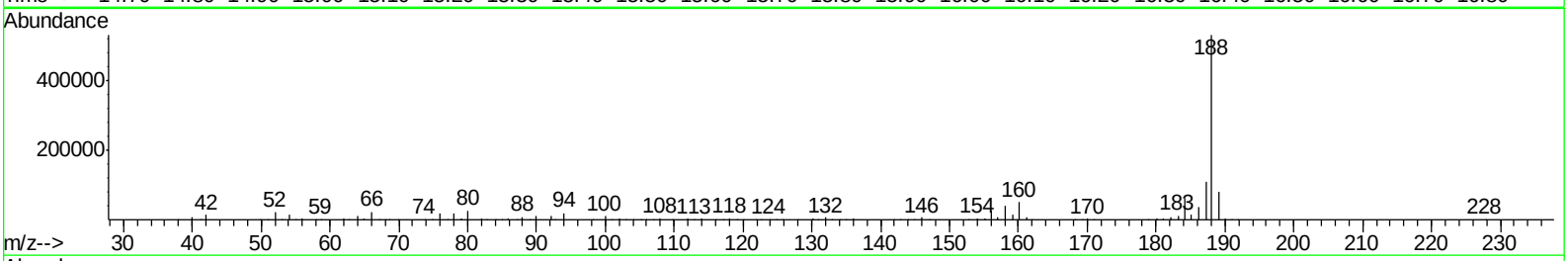


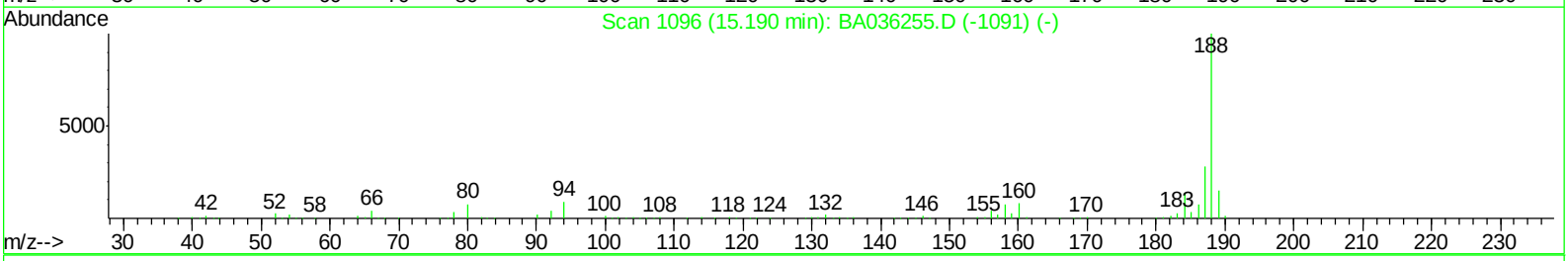
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 11:29:03 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041298.D

(68) Anthracene-d10 (S)

15.742min (-0.120) 20.89ng/ul

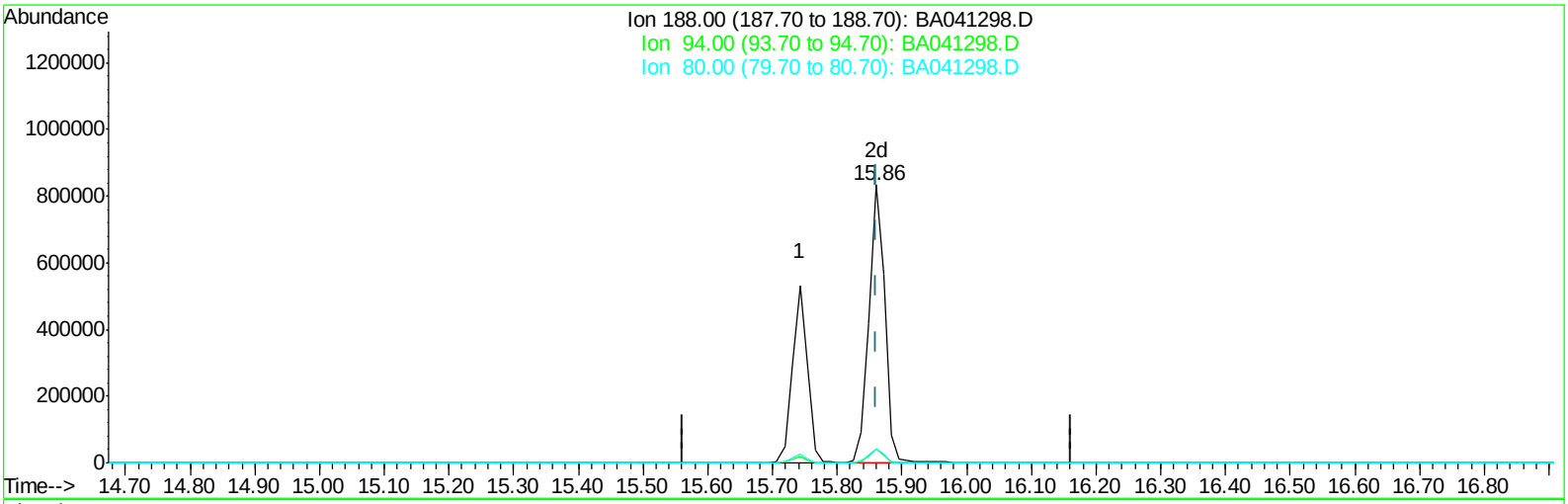
response 865751

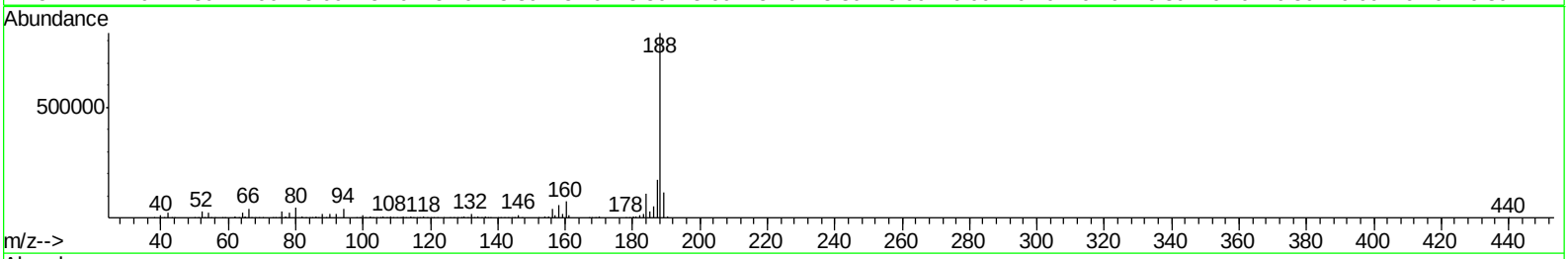
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	3.79
80.00	4.20	5.01
0.00	0.00	0.00

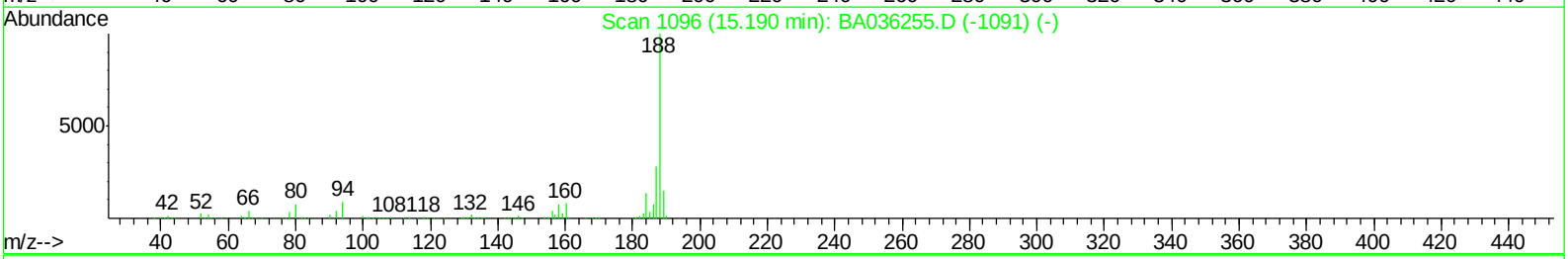
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 11:29:03 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041298.D

(68) Anthracene-d10 (S)

15.860min (-0.001) 34.75ng/ul m

response 1440267

Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.96#
80.00	4.20	5.24#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 12:09:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.671	152	204145	20.00	ng/ul	0.00
16) Naphthalene-d8	9.068	136	666775	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.653	164	472602	20.00	ng/ul	-0.02
59) Phenanthrene-d10	15.742	188	865751	20.00	ng/ul	-0.01
73) Chrysene-d12	21.274	240	966867	20.00	ng/ul	-0.01
81) Perylene-d12	25.065	264	893753	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.047	99	151583	12.26	ng/ul	-0.01
5) Bis-(2-Chloroethyl)eth...	6.153	67	253910	30.30	ng/ul	0.00
7) 2-Chlorophenol-d4	6.283	132	306929	29.22	ng/ul	-0.01
11) 4-Methylphenol-d8	7.377	113	204489	24.39	ng/ul	0.00
17) Nitrobenzene-d5	7.682	128	184285	31.22	ng/ul	-0.01
20) 2-Nitrophenol-d4	8.304	143	217307	29.91	ng/ul	-0.01
24) 2,4-Dichlorophenol-d3	8.775	165	373037	27.74	ng/ul	-0.01
27) 4-Chloroaniline-d4	9.209	131	50980	3.83	ng/ul	-0.01
41) Dimethylphthalate-d6	12.112	166	1094904	34.79	ng/ul	0.00
44) Acenaphthylene-d8	12.323	160	1189023	31.07	ng/ul	-0.02
49) 4-Nitrophenol-d4	12.947	143	96687	15.07	ng/ul	-0.02
55) Fluorene-d10	13.744	176	824670	32.58	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.910	200	317632	35.45	ng/ul	0.00
68) Anthracene-d10	15.860	188	1440267m	34.75	ng/ul	0.00
74) Pyrene-d10	18.708	212	1610373	38.12	ng/ul	-0.01
85) Benzo(a)pyrene-d12	24.817	264	1599149	32.86	ng/ul	0.00

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041298.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.720	15	17	20	rVB3	5770	10061	0.24%	0.022%
2	2.791	20	23	24	rBV	4913	8320	0.20%	0.019%
3	3.214	57	59	63	rVB3	11662	28687	0.70%	0.064%
4	3.284	63	65	69	rVB3	4364	10876	0.26%	0.024%
5	3.520	83	85	92	rVB3	12486	28153	0.68%	0.063%
6	3.908	116	118	121	rBV2	4426	8580	0.21%	0.019%
7	4.155	137	139	141	rVV3	4415	7306	0.18%	0.016%
8	4.237	144	146	149	rBV	3439	6430	0.16%	0.014%
9	5.270	233	234	236	rBV	5806	6592	0.16%	0.015%
10	5.634	263	265	269	rVV	2671	6162	0.15%	0.014%
11	5.752	272	275	279	rBV	2433	5910	0.14%	0.013%
12	6.047	296	300	305	rBV	358348	630944	15.29%	1.409%
13	6.153	305	309	315	rVV	614958	1030312	24.96%	2.300%
14	6.283	316	320	327	rVV	876843	1506204	36.49%	3.363%
15	6.412	330	331	333	rVV	5086	7754	0.19%	0.017%
16	6.683	350	354	361	rVB	724050	1368385	33.15%	3.055%
17	6.906	371	373	377	rVB	3647	7456	0.18%	0.017%
18	7.306	403	407	410	rBV2	2364	6268	0.15%	0.014%
19	7.377	410	413	422	rVB	987995	1382873	33.50%	3.087%
20	7.682	436	439	442	rBV	1070916	1588914	38.50%	3.547%
21	7.905	456	458	461	rVB2	3819	8307	0.20%	0.019%
22	8.304	489	492	495	rBV	1073438	1554737	37.67%	3.471%
23	8.399	498	500	502	rVV2	3409	5812	0.14%	0.013%
24	8.775	529	532	535	rBV	1387486	1924972	46.64%	4.298%
25	8.846	536	538	540	rVB3	4438	6948	0.17%	0.016%
26	9.068	554	557	560	rBV	1102321	1527522	37.01%	3.410%
27	9.209	567	569	572	rBV	160923	232580	5.63%	0.519%
28	9.739	611	614	615	rBV	3419	6140	0.15%	0.014%
29	9.962	628	633	634	rBV2	2433	6392	0.15%	0.014%
30	10.021	637	638	644	rVB	2454	6482	0.16%	0.014%
31	10.232	651	656	661	rBV	2372	9658	0.23%	0.022%
32	10.303	661	662	667	rVB	2777	6433	0.16%	0.014%
33	10.714	693	697	700	rBV	5023	10505	0.25%	0.023%
34	11.055	723	726	728	rBV2	4694	8340	0.20%	0.019%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.137	731	733	736	rBV	2913	7126	0.17%	0.016%
36	11.301	744	747	749	rBV2	9816	17290	0.42%	0.039%
37	12.112	812	816	819	rBV	1667756	2815902	68.22%	6.287%
38	12.229	824	826	831	rVB2	4032	6557	0.16%	0.015%
39	12.323	831	834	838	rBV	1591826	2702890	65.49%	6.034%
40	12.512	847	850	853	rBV2	5601	9156	0.22%	0.020%
41	12.653	859	862	866	rBV	1257742	1917692	46.46%	4.281%
42	12.935	883	886	891	rBV	453486	798856	19.35%	1.784%
43	13.147	901	904	906	rVB2	15915	24544	0.59%	0.055%
44	13.463	927	931	935	rVB	4034	13728	0.33%	0.031%
45	13.533	935	937	940	rBV	3401	8940	0.22%	0.020%
46	13.744	951	955	958	rVV	1701640	3140836	76.10%	7.012%
47	13.839	961	963	965	rVV3	5365	10938	0.27%	0.024%
48	13.910	965	969	972	rVV	1143391	2028823	49.15%	4.530%
49	14.004	973	977	980	rVB3	22245	45370	1.10%	0.101%
50	14.074	980	983	986	rBV3	4151	7116	0.17%	0.016%
51	14.557	1020	1024	1026	rBV	2328	7195	0.17%	0.016%
52	14.885	1051	1052	1058	rVB	1993	6213	0.15%	0.014%
53	15.284	1082	1086	1090	rBV	2741	6165	0.15%	0.014%
54	15.483	1100	1103	1105	rBV2	3244	6533	0.16%	0.015%
55	15.648	1113	1117	1118	rBV	3640	9364	0.23%	0.021%
56	15.742	1121	1125	1129	rBV	1352515	2201471	53.34%	4.915%
57	15.860	1131	1135	1139	rBV	2129733	3713482	89.97%	8.291%
58	16.072	1150	1153	1157	rVB	37060	51997	1.26%	0.116%
59	16.212	1163	1165	1169	rBV2	16466	25715	0.62%	0.057%
60	16.307	1171	1173	1176	rVB	2441	5931	0.14%	0.013%
61	17.036	1232	1235	1241	rVB4	4916	11569	0.28%	0.026%
62	17.414	1264	1267	1270	rVB2	4041	8491	0.21%	0.019%
63	17.543	1276	1278	1283	rBV	2829	6707	0.16%	0.015%
64	17.885	1303	1307	1308	rVB	3048	5978	0.14%	0.013%
65	18.132	1325	1328	1331	rBV2	2401	7598	0.18%	0.017%
66	18.556	1360	1364	1367	rBV	15705	28411	0.69%	0.063%
67	18.720	1373	1378	1381	rBV	2092986	4127450	100.00%	9.215%
68	19.013	1401	1403	1408	rVB2	4378	10660	0.26%	0.024%
69	19.108	1408	1411	1413	rBV3	3065	8176	0.20%	0.018%
70	19.649	1454	1457	1460	rVB2	3404	5961	0.14%	0.013%
71	20.650	1538	1542	1545	rBV2	2678	8451	0.20%	0.019%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

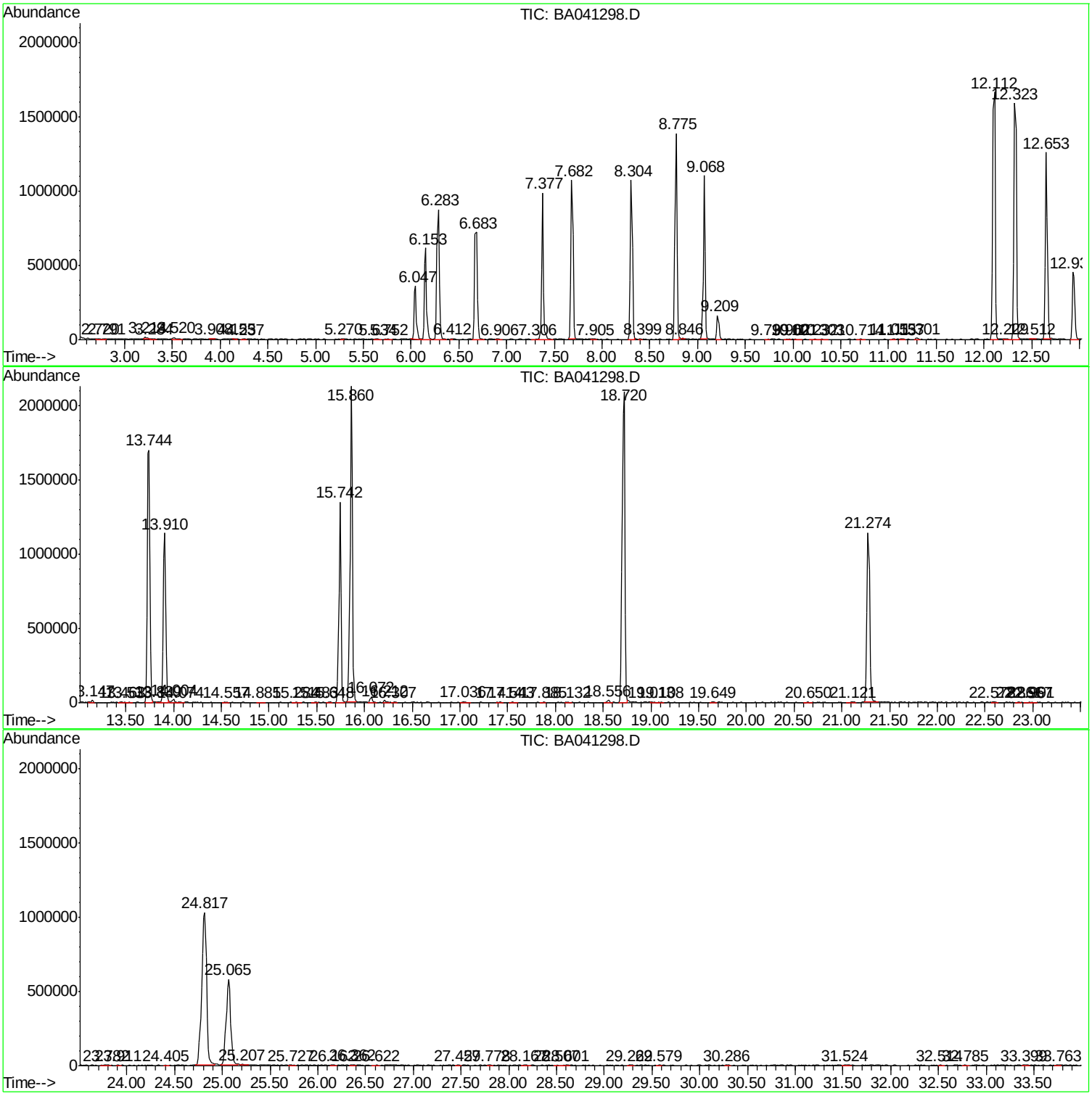
72	21.121	1576	1582	1584	rBV2	3322	9584	0.23%	0.021%
73	21.274	1591	1595	1604	rBV	1144733	2228366	53.99%	4.975%
74	22.578	1705	1706	1711	rBV	3858	8191	0.20%	0.018%
75	22.861	1726	1730	1731	rBV2	2874	6637	0.16%	0.015%
76	22.967	1734	1739	1740	rVB2	3021	5886	0.14%	0.013%
77	22.991	1740	1741	1745	rBV2	3136	6548	0.16%	0.015%
78	23.782	1803	1808	1812	rBV3	3883	10297	0.25%	0.023%
79	23.911	1817	1819	1821	rBV	3667	6836	0.17%	0.015%
80	24.405	1859	1861	1864	rBV2	2085	6332	0.15%	0.014%
81	24.817	1887	1896	1905	rBV	1031834	3600270	87.23%	8.038%
82	25.065	1910	1917	1925	rVV	579509	1981171	48.00%	4.423%
83	25.207	1927	1929	1934	rVB3	4508	10815	0.26%	0.024%
84	25.727	1970	1973	1976	rBV2	3367	7715	0.19%	0.017%
85	26.162	2007	2010	2013	rBV2	2446	6384	0.15%	0.014%
86	26.362	2024	2027	2030	rVV	4123	9403	0.23%	0.021%
87	26.622	2044	2049	2051	rBV2	2774	7484	0.18%	0.017%
88	27.459	2118	2120	2123	rBV2	2720	5762	0.14%	0.013%
89	27.778	2146	2147	2151	rVB2	3224	6458	0.16%	0.014%
90	28.167	2177	2180	2185	rBV3	1577	5847	0.14%	0.013%
91	28.507	2206	2209	2214	rBV2	2308	8588	0.21%	0.019%
92	28.601	2214	2217	2220	rVV3	2424	5966	0.14%	0.013%
93	29.262	2271	2273	2277	rVB3	2222	6045	0.15%	0.013%
94	29.579	2297	2300	2302	rBV	2478	5890	0.14%	0.013%
95	30.286	2358	2360	2363	rVB3	2583	5913	0.14%	0.013%
96	31.524	2462	2465	2470	rBV4	2758	9561	0.23%	0.021%
97	32.514	2548	2549	2553	rVB	2956	5891	0.14%	0.013%
98	32.785	2569	2572	2575	rBV	2616	5847	0.14%	0.013%
99	33.399	2622	2624	2629	rBV2	2492	6720	0.16%	0.015%
100	33.763	2651	2655	2657	rBV2	3742	9950	0.24%	0.022%

Sum of corrected areas: 44790654

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041298.D
Acq On : 19 Oct 2008 20:43
Operator : QM
Sample : Z4923-19
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound Report (TIC)
Library Search summary

DataPath :: P:\HPCHEM\1\DATA\BA101908\
DataFile :: BA0412.D
AcqOn :: 19 Oct 2008 20:43
Operator :: QM
Sample :: ZZ 4923119
Misc ::
ALSVial :: 11 Sample Multiplier: 1

QuantMethod :: Z:\HPCHEM\1\METHODS\SOM122BA101908.M
QuantTitle :: ASPBNASTANDARDSFOR55POINTCALIBRATION

TICLibrary :: C:\DATABASE\NIST02.L
TICIntegrationParameters: LSCNTP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

CHEMTECH

SEMI-VOLATILE CALIBRATION DATA

6E - FORM VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date(s): 10/19/2008 10/19/2008

Calibration Time(s): 14:01 17:16

LAB FILE ID: RRF5.0 = BA041290.D RRF10 = BA041291.D
RRF20 = BA041289.D RRF40 = BA041292.D RRF80 = BA041293.D

COMPOUND	RRF5.0	RRF10	RRF20	RRF40	RRF80	$\overline{RRF}$	% RSD
Benzaldehyde	0.630	0.766	0.625	0.461	0.221	0.540	38.7
Phenol	1.151	1.307	1.304	1.395	1.411	1.314	7.9
Bis(2-chloroethyl)ether	0.988	1.052	1.014	1.054	1.152	1.052	5.9
2-Chlorophenol	1.082	1.158	1.162	1.199	1.219	1.164	4.5
2-Methylphenol	0.836	0.894	0.882	0.954	0.990	0.911	6.7
2,2'-Oxybis(1-chloropropane)	1.386	1.572	1.561	1.659	1.618	1.559	6.7
Acetophenone	1.526	1.583	1.660	1.616	1.650	1.607	3.4
4-Methylphenol	0.890	0.950	0.867	1.013	1.052	0.954	8.3
N-Nitroso-di-n-propylamine	0.692	0.919	0.801	0.878	0.807	0.819	10.6
Hexachloroethane	0.557	0.680	0.641	0.699	0.631	0.642	8.6
Nitrobenzene	0.383	0.440	0.406	0.433	0.418	0.416	5.5
Isophorone	0.730	0.790	0.832	0.830	0.829	0.802	5.5
2-Nitrophenol	0.220	0.229	0.226	0.245	0.250	0.234	5.5
2,4-Dimethylphenol	0.355	0.393	0.380	0.388	0.414	0.386	5.6
Bis(2-chloroethoxy)methane	0.347	0.368	0.384	0.417	0.458	0.395	11.0
2,4-Dichlorophenol	0.377	0.410	0.401	0.428	0.427	0.409	5.1
Naphthalene	0.833	0.882	0.874	0.922	1.015	0.905	7.6
4-Chloroaniline	0.249	0.254	0.269	0.266	0.280	0.264	4.7
Hexachlorobutadiene	0.288	0.332	0.310	0.313	0.305	0.309	5.1
Caprolactam	0.085	0.109	0.107	0.102	0.092	0.099	10.5
4-Chloro-3-methylphenol	0.340	0.359	0.331	0.343	0.391	0.353	6.7
2-Methylnaphthalene	0.667	0.704	0.679	0.709	0.784	0.709	6.4
Hexachlorocyclopentadiene	0.456	0.489	0.522	0.566	0.563	0.519	9.2
2,4,6-Trichlorophenol	0.434	0.416	0.420	0.504	0.482	0.451	8.8
2,4,5-Trichlorophenol	0.458	0.419	0.443	0.511	0.497	0.466	8.1
1,1'-Biphenyl	1.380	1.330	1.310	1.490	1.525	1.407	6.8
2-Chloronaphthalene	1.188	1.148	1.146	1.316	1.260	1.211	6.1
2-Nitroaniline		0.353	0.357	0.410	0.382	0.376	6.9
Dimethylphthalate	1.401	1.502	1.429	1.507	1.421	1.452	3.4
2,6-Dinitrotoluene	0.359	0.340	0.359	0.393	0.384	0.367	5.8
Acenaphthylene	1.488	1.575	1.512	1.703	1.678	1.591	6.1
3-Nitroaniline		0.272	0.275	0.307	0.301	0.289	6.2
Acenaphthene	1.028	1.046	1.020	1.086	1.062	1.048	2.6
2,4-Dinitrophenol		0.274	0.279	0.324	0.328	0.301	9.5
4-Nitrophenol		0.316	0.302	0.354	0.330	0.326	6.8
Dibenzofuran	1.461	1.489	1.491	1.725	1.644	1.562	7.4
2,4-Dinitrotoluene	0.491	0.455	0.448	0.523	0.483	0.480	6.3
Diethylphthalate	1.355	1.428	1.385	1.495	1.391	1.411	3.8
Fluorene	1.244	1.223	1.214	1.334	1.433	1.290	7.2

6F - FORM VI SV-2

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date(s): 10/19/2008 10/19/2008

Calibration Time(s): 14:01 17:16

LAB FILE ID: RRF5.0 = BA041290.D RRF10 = BA041291.D
RRF20 = BA041289.D RRF40 = BA041292.D RRF80 = BA041293.D

COMPOUND	RRF5.0	RRF10	RRF20	RRF40	RRF80	$\overline{RRF}$	% RSD
4-Chlorophenyl-phenylether	0.683	0.659	0.669	0.715	0.707	0.686	3.5
4-Nitroaniline		0.288	0.245	0.208	0.159	0.225	24.2
4,6-Dinitro-2-methylphenol		0.208	0.203	0.221	0.220	0.213	4.2
N-Nitrosodiphenylamine [1]	0.542	0.542	0.572	0.589	0.607	0.571	5.0
1,2,4,5-Tetrachlorobenzene	0.683	0.702	0.761	0.822	0.771	0.748	7.5
4-Bromophenyl-phenylether	0.234	0.244	0.241	0.252	0.258	0.246	3.8
Hexachlorobenzene	0.267	0.298	0.280	0.290	0.298	0.287	4.7
Atrazine	0.092	0.097	0.098	0.108	0.109	0.101	7.2
Pentachlorophenol		0.201	0.213	0.229	0.233	0.219	6.8
Phenanthrene	1.006	0.972	1.002	1.048	1.076	1.020	4.0
Anthracene	1.040	1.034	0.987	1.030	1.044	1.027	2.3
Carbazole	0.884	0.901	0.889	0.962	1.006	0.929	5.8
Di-n-butylphthalate	1.287	1.350	1.281	1.352	1.379	1.330	3.3
Fluoranthene	1.156	1.216	1.180	1.213	1.288	1.211	4.1
Pyrene	1.013	1.126	1.038	1.168	1.204	1.110	7.4
Butylbenzylphthalate	0.467	0.512	0.537	0.571	0.602	0.538	9.7
3,3'-Dichlorobenzidine	0.211	0.301	0.346	0.383	0.376	0.323	21.9
Benzo(a)anthracene	0.945	1.038	0.993	1.130	1.197	1.061	9.7
Chrysene	0.874	0.959	0.880	0.910	0.881	0.901	3.9
Bis(2-ethylhexyl)phthalate	0.533	0.566	0.506	0.558	0.650	0.563	9.7
Di-n-octylphthalate	0.855	1.039	1.263	1.394	1.812	1.273	28.7
Benzo(b)fluoranthene	0.965	1.096	1.255	1.492	1.724	1.306	23.4
Benzo(k)fluoranthene	1.065	1.083	1.084	1.172	1.153	1.111	4.3
Benzo(a)pyrene	0.918	1.053	1.134	1.239	1.287	1.126	13.1
Indeno(1,2,3-cd)pyrene	0.740	0.867	1.033	1.231	1.406	1.055	25.5
Dibenzo(a,h)anthracene	0.675	0.764	0.835	0.847	0.930	0.810	11.8
Benzo(g,h,i)perylene	0.840	0.911	1.062	1.227	1.299	1.068	18.5
2,3,4,6-Tetrachlorophenol	0.387	0.426	0.435	0.485	0.474	0.441	8.9

[1]Cannot be separated from Diphenylamine

6G - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date(s): 10/19/2008 10/19/2008

Calibration Time(s): 14:01 17:16

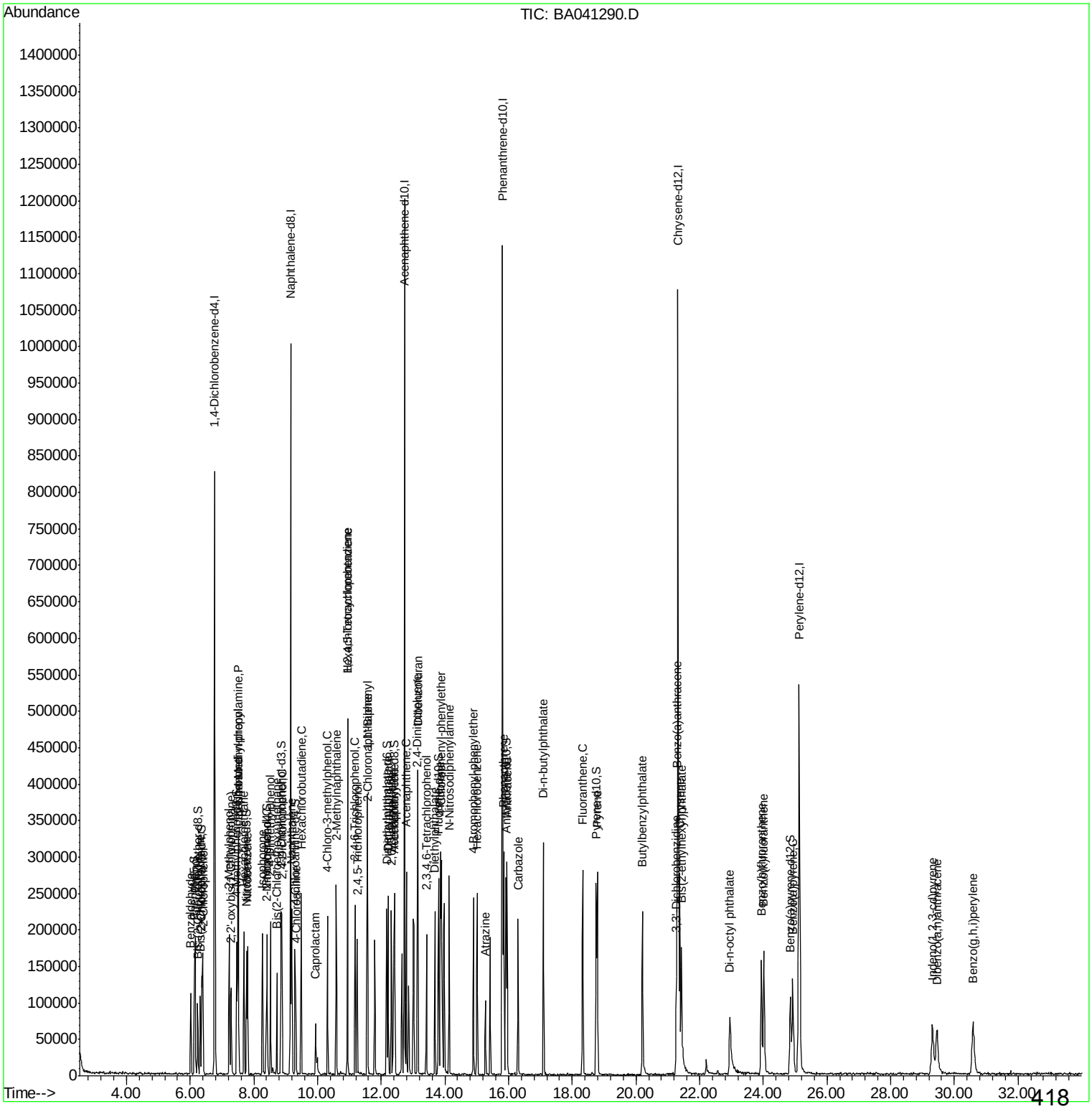
LAB FILE ID: _____ RRF5.0 = BA041290.D RRF10 = BA041291.D
RRF20 = BA041289.D RRF40 = BA041292.D RRF80 = BA041293.D

COMPOUND	RRF5.0	RRF10	RRF20	RRF40	RRF80	$\overline{RRF}$	% RSD
Phenol-d5	1.120	1.233	1.125	1.262	1.315	1.211	7.1
Bis(2-Chloroethyl)ether-d8	0.749	0.826	0.801	0.864	0.864	0.821	5.9
2-Chlorophenol-d4	0.909	1.037	1.052	1.081	1.067	1.029	6.7
4-Methylphenol-d8	0.747	0.804	0.820	0.856	0.881	0.822	6.3
Nitrobenzene-d5	0.167	0.171	0.175	0.185	0.188	0.177	5.2
2-Nitrophenol-d4	0.212	0.223	0.208	0.227	0.219	0.218	3.5
2,4-Dichlorophenol-d3	0.367	0.398	0.392	0.432	0.429	0.403	6.8
4-Chloroaniline-d4	0.356	0.400	0.383	0.410	0.445	0.399	8.3
Dimethylphthalate-d6	1.276	1.301	1.313	1.410	1.359	1.332	4.0
Acenaphthylene-d8	1.527	1.572	1.592	1.701	1.705	1.619	4.9
4-Nitrophenol-d4		0.257	0.266	0.278	0.285	0.271	4.6
Fluorene-d10	1.001	1.091	1.028	1.113	1.123	1.071	5.0
4,6-Dinitro-2-methylphenol-d2		0.200	0.196	0.219	0.213	0.207	5.2
Anthracene-d10	1.011	0.951	0.948	0.956	0.921	0.957	3.5
Pyrene-d10	0.820	0.873	0.844	0.889	0.944	0.874	5.4
Benzo(a)pyrene-d12	0.856	0.919	1.016	1.232	1.423	1.089	21.6

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

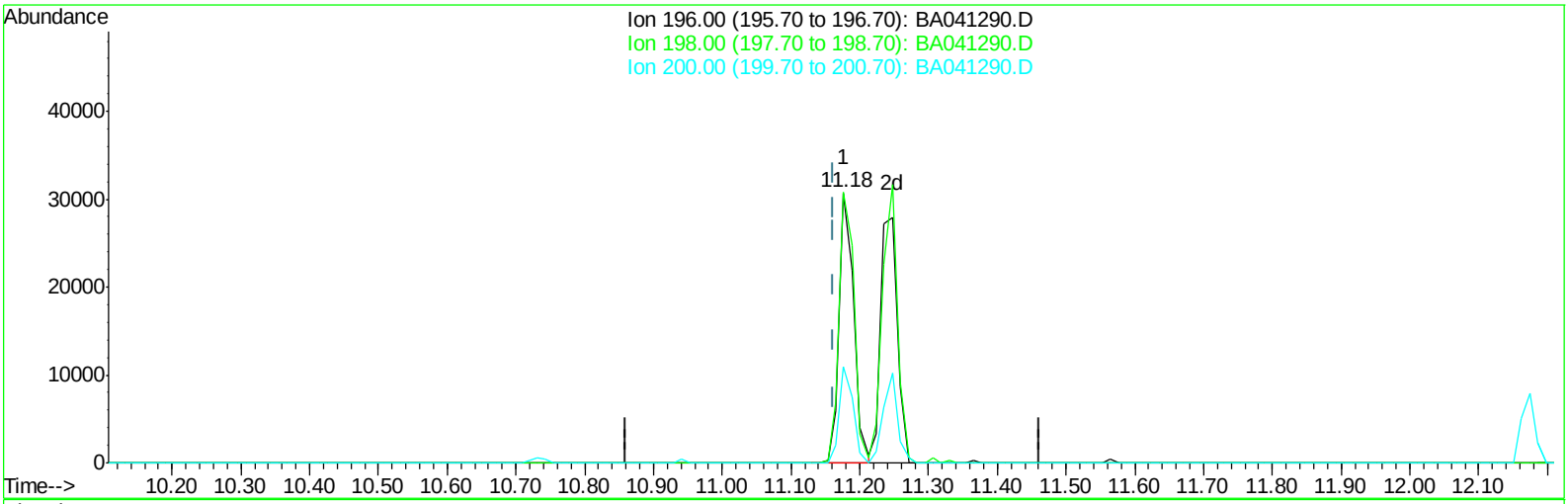
Quant Time: Oct 20 11:08:02 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

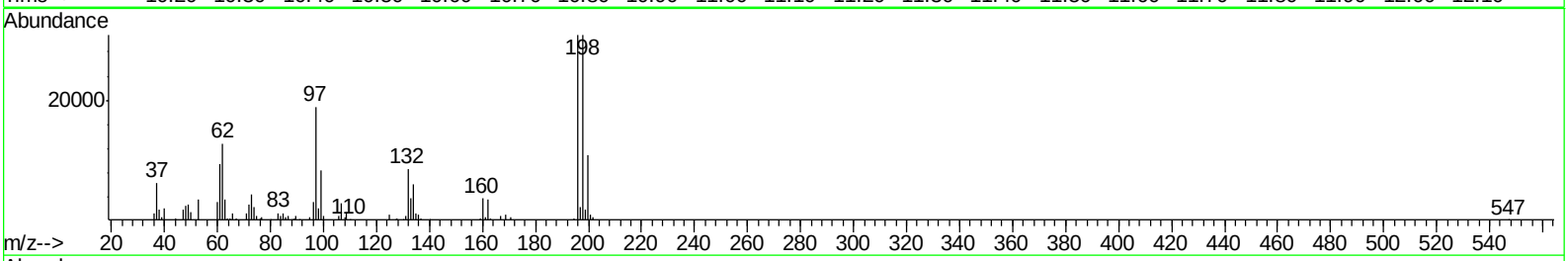


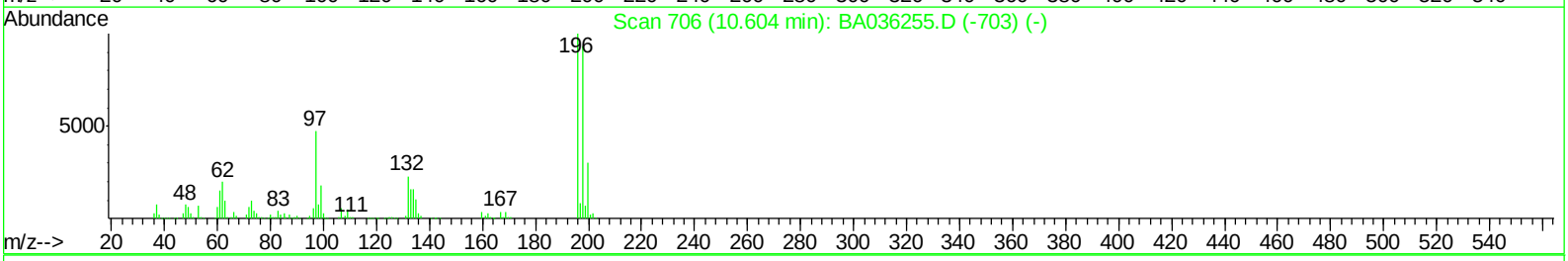
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(37) 2,4,5-Trichlorophenol

11.177min (+0.015) 4.93ng/ul

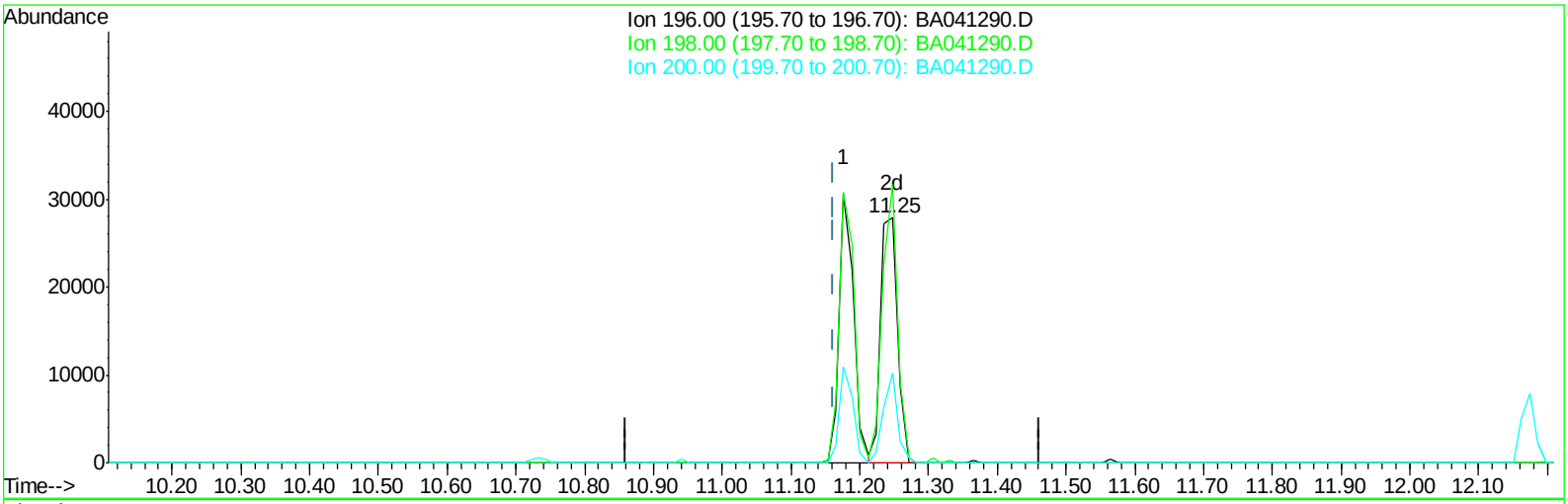
response 45104

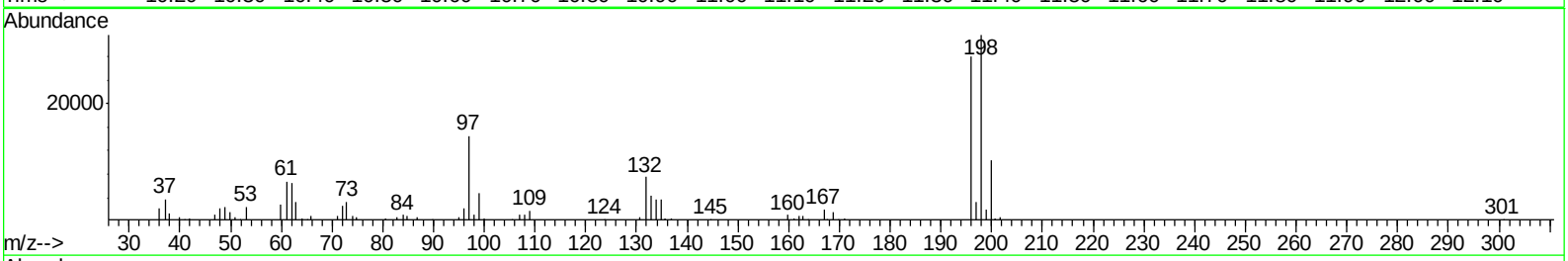
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	100.29
200.00	29.80	35.72
0.00	0.00	0.00

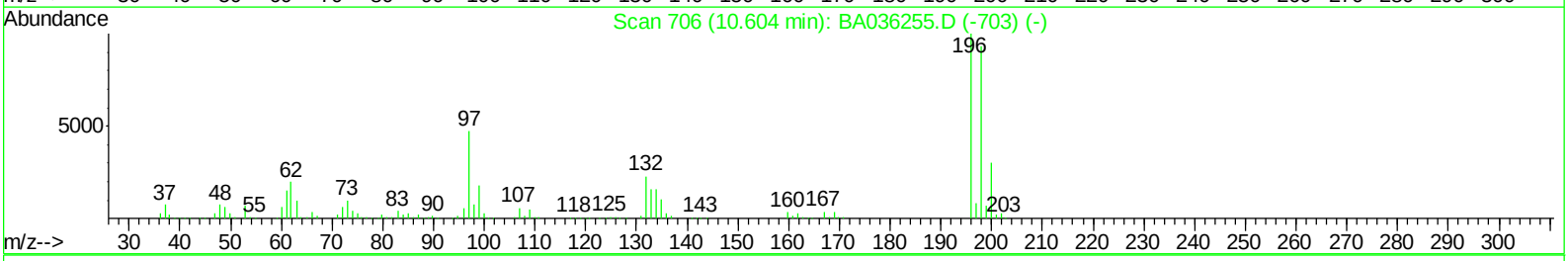
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(37) 2,4,5-Trichlorophenol

11.248min (+0.086) 5.21ng/ul m

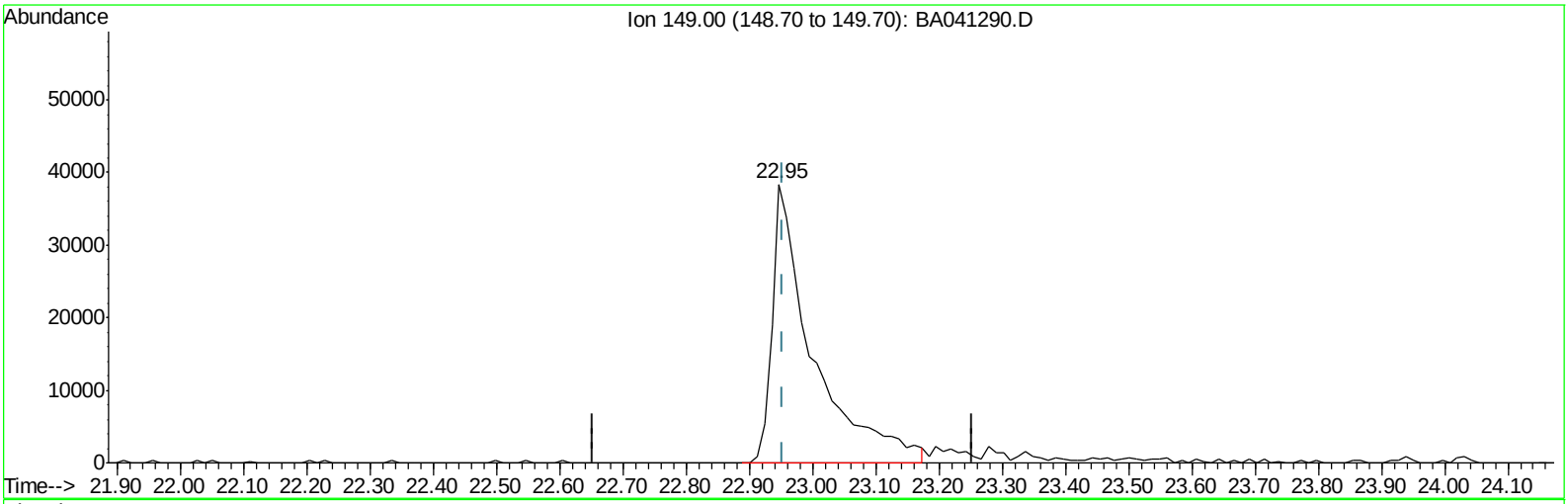
response 47602

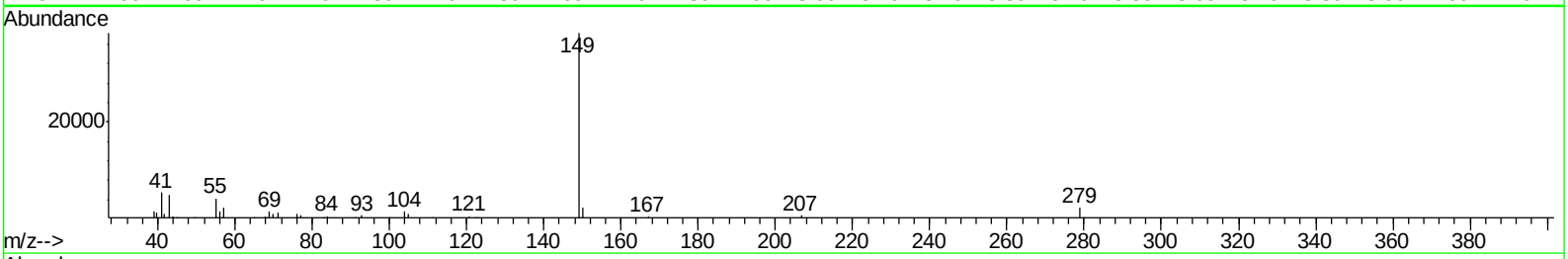
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	113.41#
200.00	29.80	36.77#
0.00	0.00	0.00

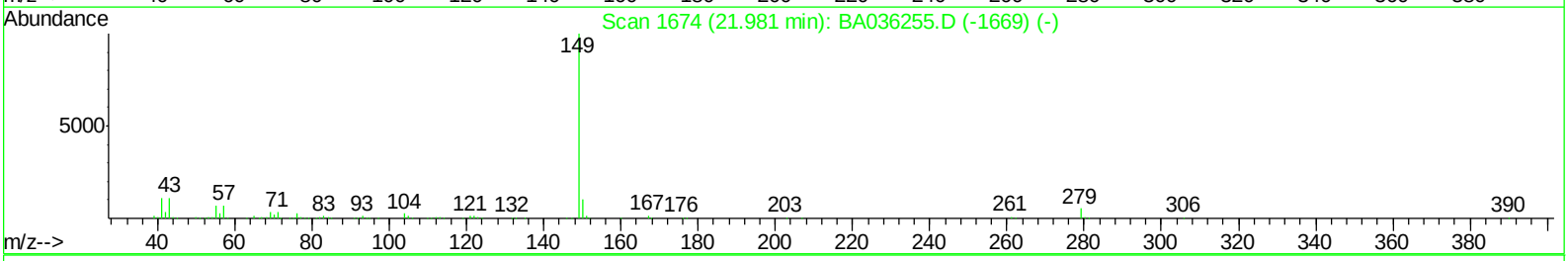
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(82) Di-n-octyl phthalate

22.948min (-0.006) 2.62ng/ul

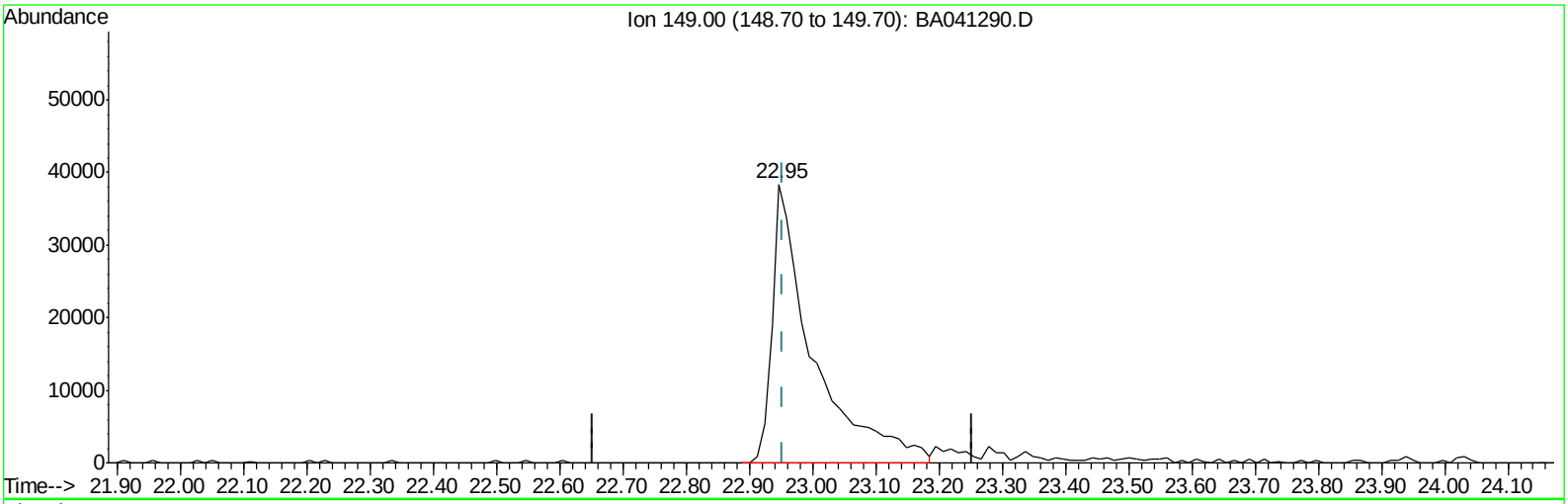
response 172018

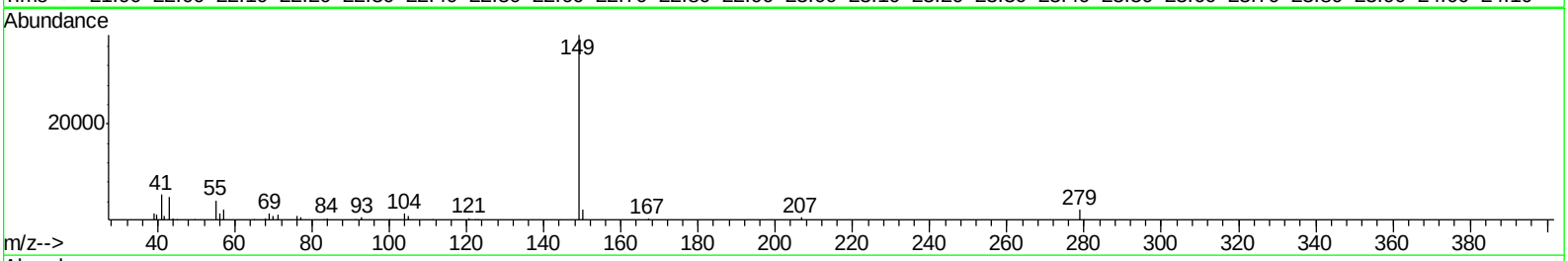
Ion	Exp%	Act%
149.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

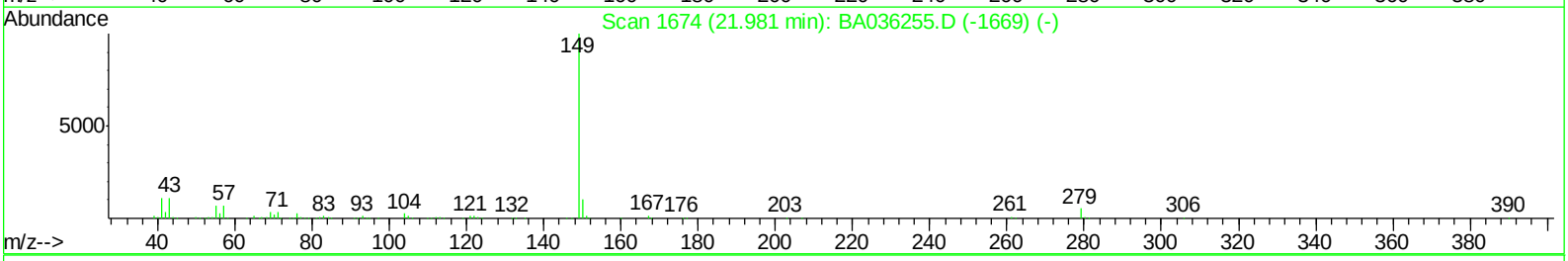
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(82) Di-n-octyl phthalate

22.948min (-0.006) 2.63ng/ul m

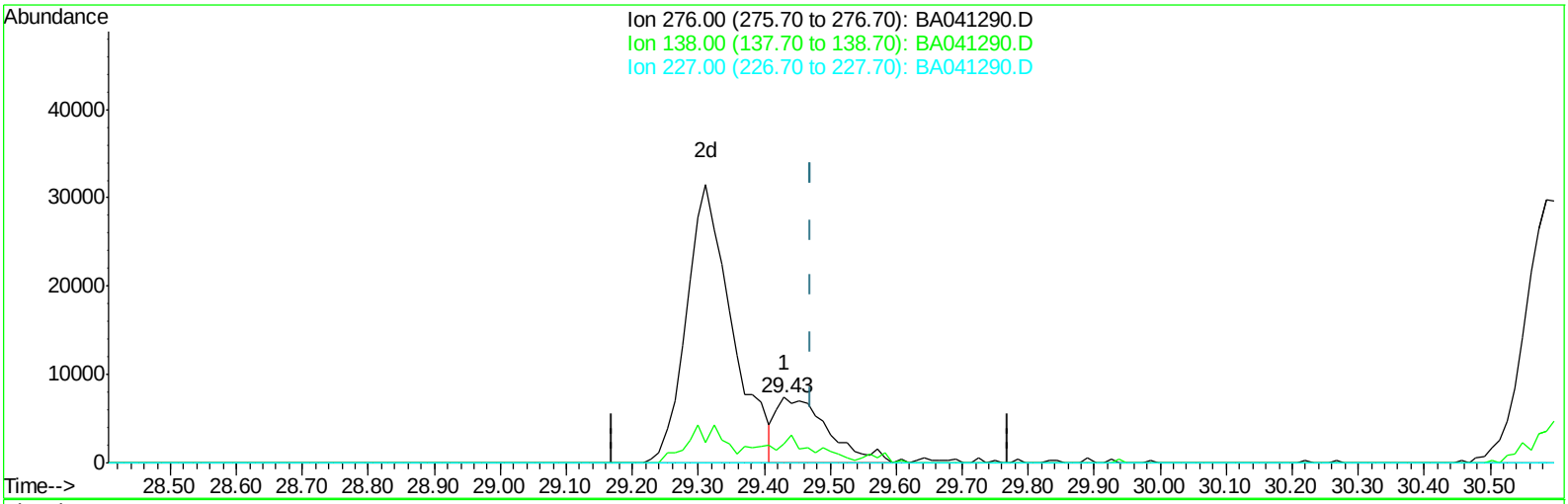
response 172634

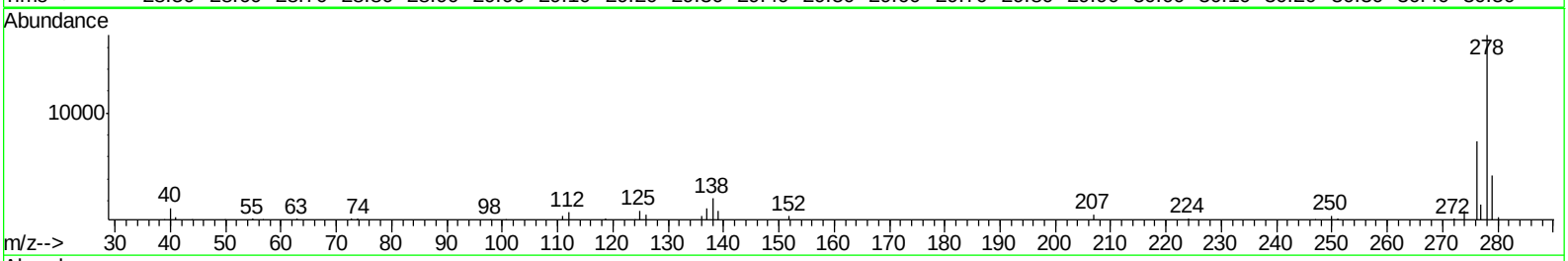
Ion	Exp%	Act%
149.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

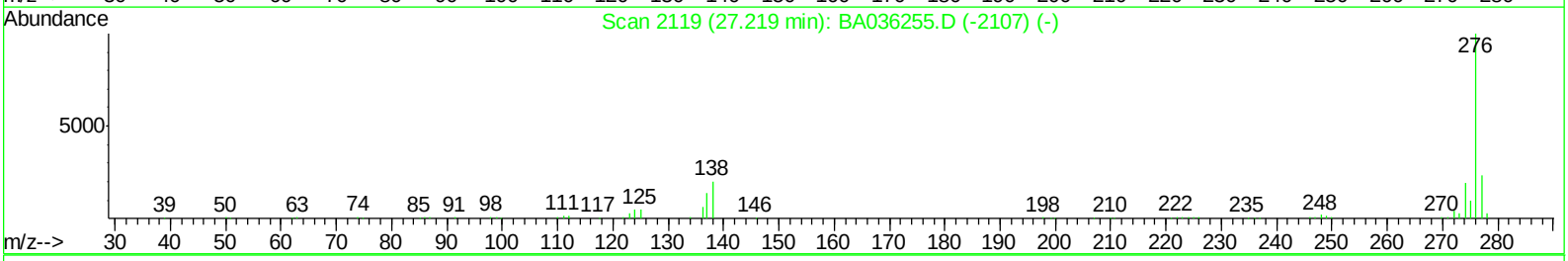
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(87) Indeno(1,2,3-cd)pyrene

29.430min (-0.040) 0.94ng/ul

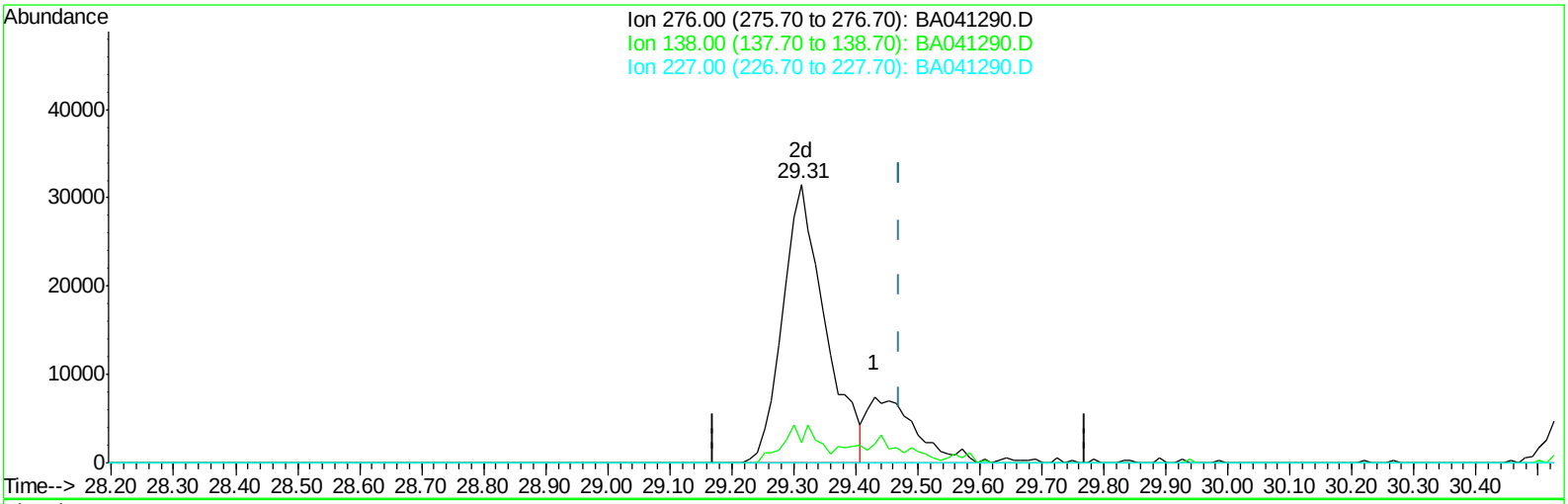
response 40357

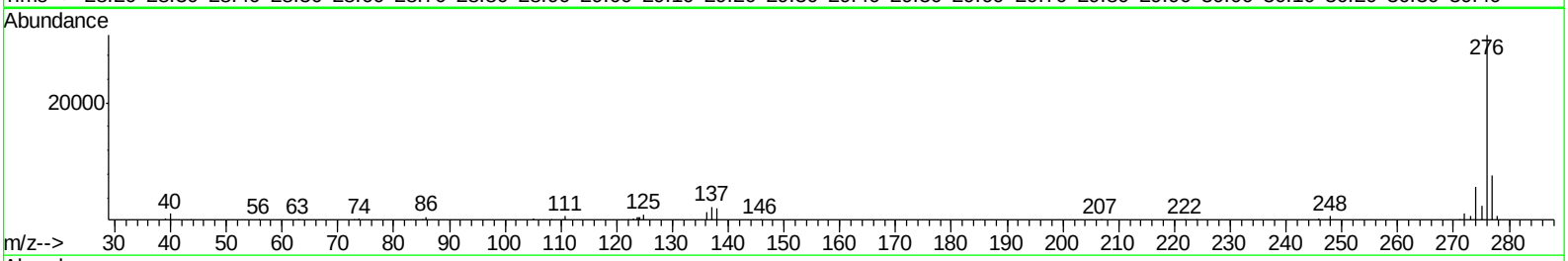
Ion	Exp%	Act%
276.00	100	100
138.00	19.90	29.83#
227.00	23.00	0.00#
0.00	0.00	0.00

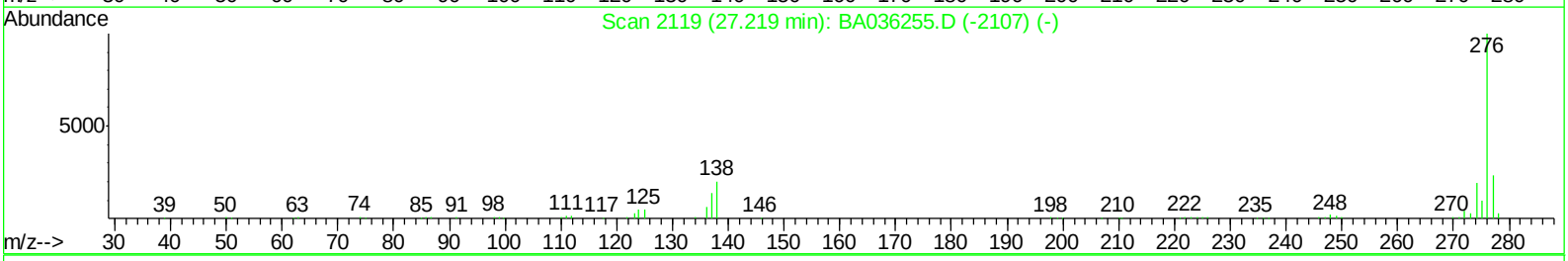
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(87) Indeno(1,2,3-cd)pyrene

29.312min (-0.159) 3.49ng/ul m

response 149540

Ion	Exp%	Act%
276.00	100	100
138.00	19.90	7.25#
227.00	23.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:08:02 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	183766	20.00	ng/ul	0.09
16) Naphthalene-d8	9.15	136	604017	20.00	ng/ul	0.09
33) Acenaphthene-d10	12.73	164	415692	20.00	ng/ul	0.08
59) Phenanthrene-d10	15.80	188	748573	20.00	ng/ul	0.06
73) Chrysene-d12	21.32	240	920298	20.00	ng/ul	0.00
81) Perylene-d12	25.13	264	808050	20.00	ng/ul	-0.04
System Monitoring Compounds						
3) Phenol-d5	6.13	99	51446	3.66	ng/ul	0.09
5) Bis-(2-Chloroethyl)ether-d	6.24	67	34405	4.42	ng/ul	0.09
7) 2-Chlorophenol-d4	6.37	132	41754	3.59	ng/ul	0.08
11) 4-Methylphenol-d8	7.46	113	34332	3.60	ng/ul	0.08
17) Nitrobenzene-d5	7.77	128	25151	4.18	ng/ul	0.09
20) 2-Nitrophenol-d4	8.39	143	32047	4.65	ng/ul	0.09
24) 2,4-Dichlorophenol-d3	8.86	165	55395	5.55	ng/ul	0.08
27) 4-Chloroaniline-d4	9.30	131	53792	4.20	ng/ul	0.08
41) Dimethylphthalate-d6	12.17	166	132644	4.90	ng/ul	0.08
44) Acenaphthylene-d8	12.40	160	158694	4.33	ng/ul	0.08
49) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
55) Fluorene-d10	13.80	176	104064	4.66	ng/ul	0.07
60) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
68) Anthracene-d10	15.92	188	189238	5.06	ng/ul	0.07
74) Pyrene-d10	18.75	212	188647	3.88	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.84	264	172937	3.84	ng/ul	-0.05

Target Compounds						Qvalue
2) Benzaldehyde	6.01	77	28927	3.75	ng/ul	89
4) Phenol	6.15	94	52882	3.61	ng/ul#	38
6) Bis(2-Chloroethyl)ether	6.32	93	45394	4.07	ng/ul	93
8) 2-Chlorophenol	6.40	128	49692	4.20	ng/ul#	83
9) 2-Methylphenol	7.22	108	38386	3.93	ng/ul	85
10) 2,2'-oxybis(1-Chloropropan	7.28	45	63693	4.09	ng/ul	98
12) Acetophenone	7.50	105	70105	4.98	ng/ul#	68
13) N-Nitroso-di-n-propylamine	7.52	70	31778	4.43	ng/ul#	65
14) 4-Methylphenol	7.51	108	40871	4.04	ng/ul	95
15) Hexachloroethane	7.68	117	25588	4.26	ng/ul#	77
18) Nitrobenzene	7.80	77	57872	5.18	ng/ul#	87
19) Isophorone	8.26	82	110305	5.84	ng/ul#	95
21) 2-Nitrophenol	8.41	139	33162	4.67	ng/ul#	61
22) 2,4-Dimethylphenol	8.53	107	53594	5.29	ng/ul#	76
23) Bis(2-Chloroethoxy)methane	8.72	93	52436	4.09	ng/ul#	95
25) 2,4-Dichlorophenol	8.88	162	56988	5.65	ng/ul	90
26) Naphthalene	9.19	128	125811	4.25	ng/ul#	96
28) 4-Chloroaniline	9.32	127	37572	3.16	ng/ul	99
29) Hexachlorobutadiene	9.48	225	43443	7.34	ng/ul	95
30) Caprolactam	9.94	113	12860	4.49	ng/ul#	43
31) 4-Chloro-3-methylphenol	10.32	107	51317	5.99	ng/ul	89
32) 2-Methylnaphthalene	10.59	142	100756	5.24	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.94	216	71025	5.51	ng/ul	93
35) Hexachlorocyclopentadiene	10.94	237	47401	6.64	ng/ul	97

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:08:02 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

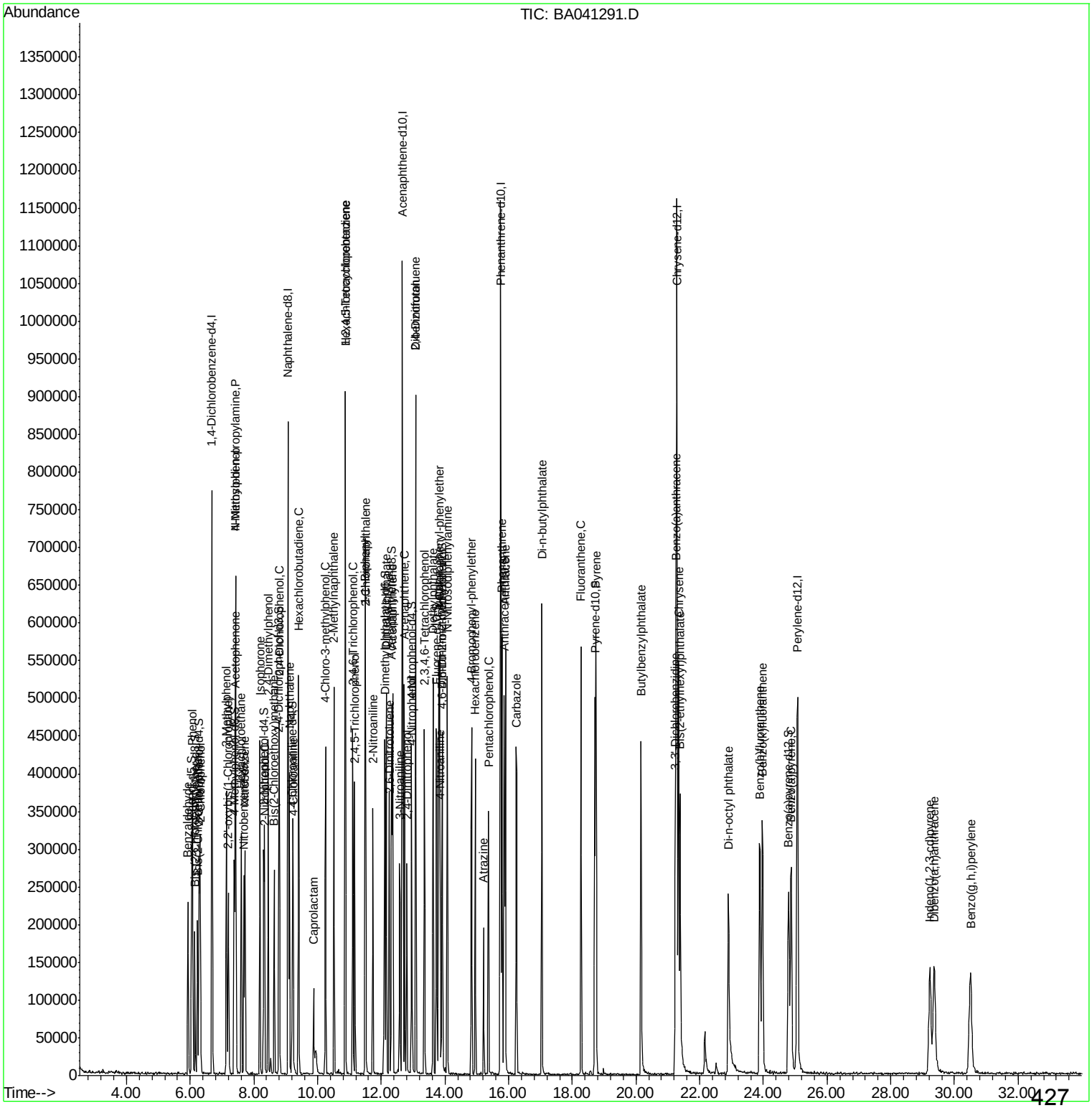
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.18	196	45104	5.30 ng/ul	93
37) 2,4,5-Trichlorophenol	11.25	196	47602m	5.21 ng/ul	
38) 1,1'-Biphenyl	11.56	154	143405	4.96 ng/ul#	90
39) 2-Chloronaphthalene	11.58	162	123508	5.05 ng/ul	96
42) Dimethylphthalate	12.22	163	145576	5.17 ng/ul	97
43) 2,6-Dinitrotoluene	12.32	165	37298	5.04 ng/ul#	86
45) Acenaphthylene	12.42	152	154648	4.27 ng/ul#	90
47) Acenaphthene	12.79	153	106847	4.89 ng/ul	86
51) Dibenzofuran	13.15	168	151848	4.72 ng/ul#	85
52) 2,4-Dinitrotoluene	13.14	165	51004	5.50 ng/ul#	35
53) 2,3,4,6-Tetrachlorophenol	13.42	232	40176	5.51 ng/ul#	98
54) Diethylphthalate	13.69	149	140786	5.01 ng/ul	99
56) Fluorene	13.86	166	129252	4.93 ng/ul	94
57) 4-Chlorophenyl-phenylether	13.89	204	70955	5.55 ng/ul	99
62) N-Nitrosodiphenylamine	14.13	169	101442	4.04 ng/ul	91
63) 4-Bromophenyl-phenylether	14.89	248	43860	4.82 ng/ul	86
64) Hexachlorobenzene	15.01	284	49876	4.69 ng/ul#	89
65) Atrazine	15.27	200	17206	2.20 ng/ul#	91
67) Phenanthrene	15.85	178	188178	4.14 ng/ul	99
69) Anthracene	15.95	178	194716	4.40 ng/ul	99
70) Carbazole	16.31	167	165485	4.22 ng/ul	96
71) Di-n-butylphthalate	17.09	149	240932	4.08 ng/ul#	93
72) Fluoranthene	18.33	202	216342	4.58 ng/ul#	88
75) Pyrene	18.79	202	232998	3.78 ng/ul#	88
76) Butylbenzylphthalate	20.20	149	107387	3.33 ng/ul	88
77) 3,3'-Dichlorobenzidine	21.27	252	48462	2.71 ng/ul	95
78) Benzo(a)anthracene	21.30	228	217485	3.64 ng/ul	96
79) Bis(2-ethylhexyl)phthalate	21.43	149	122625	3.36 ng/ul#	98
80) Chrysene	21.38	228	201063	3.82 ng/ul	96
82) Di-n-octyl phthalate	22.95	149	172634m	2.63 ng/ul	
83) Benzo(b)fluoranthene	23.94	252	194851	3.61 ng/ul#	92
84) Benzo(k)fluoranthene	24.02	252	215120	4.06 ng/ul#	92
86) Benzo(a)pyrene	24.93	252	185428	3.73 ng/ul#	96
87) Indeno(1,2,3-cd)pyrene	29.31	276	149540m	3.49 ng/ul	
88) Dibenzo(a,h)anthracene	29.47	278	136351	3.32 ng/ul#	90
89) Benzo(g,h,i)perylene	30.59	276	169618	3.67 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

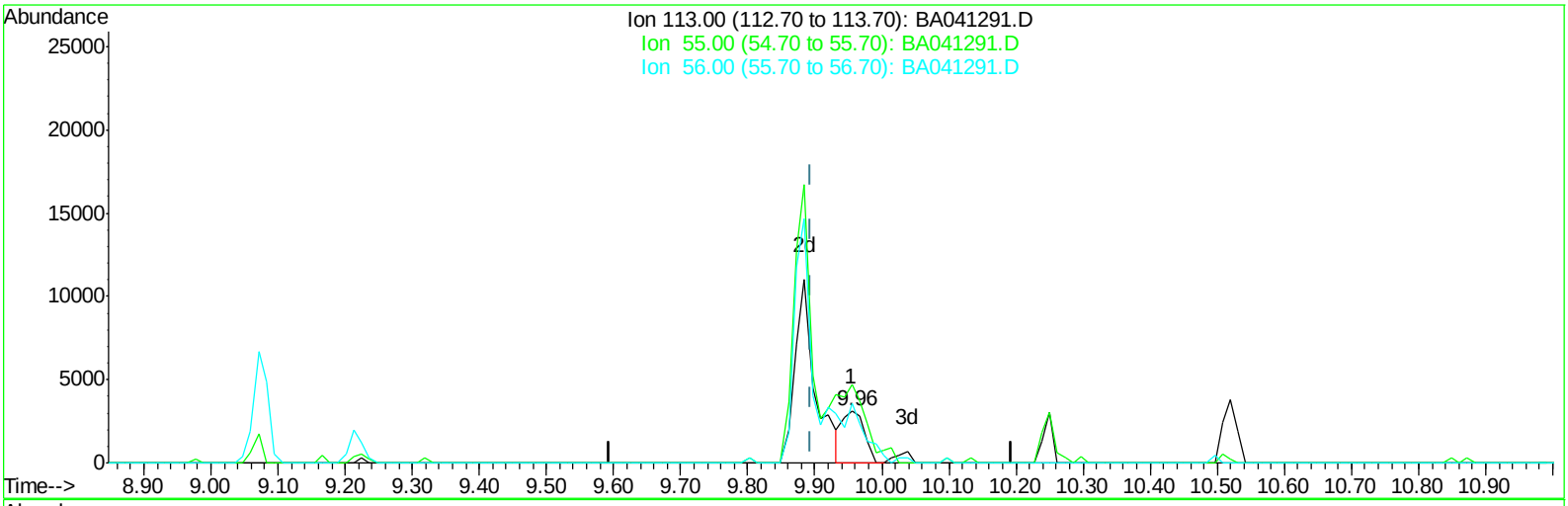
Quant Time: Oct 20 11:08:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

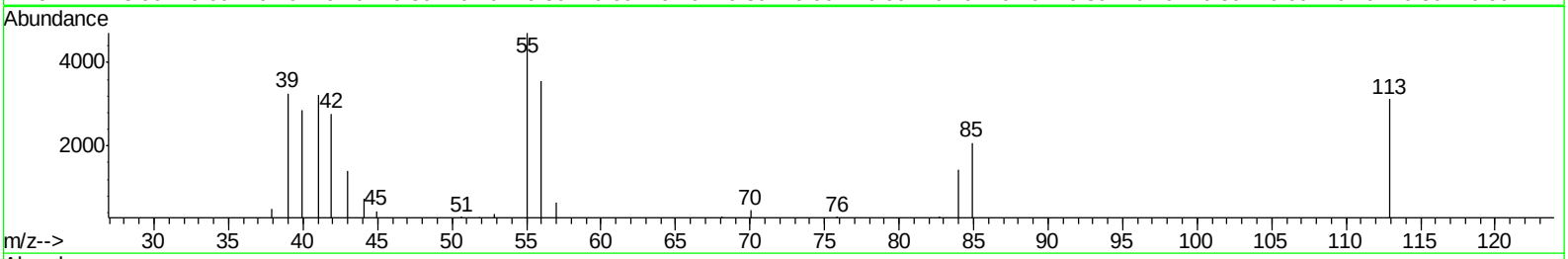


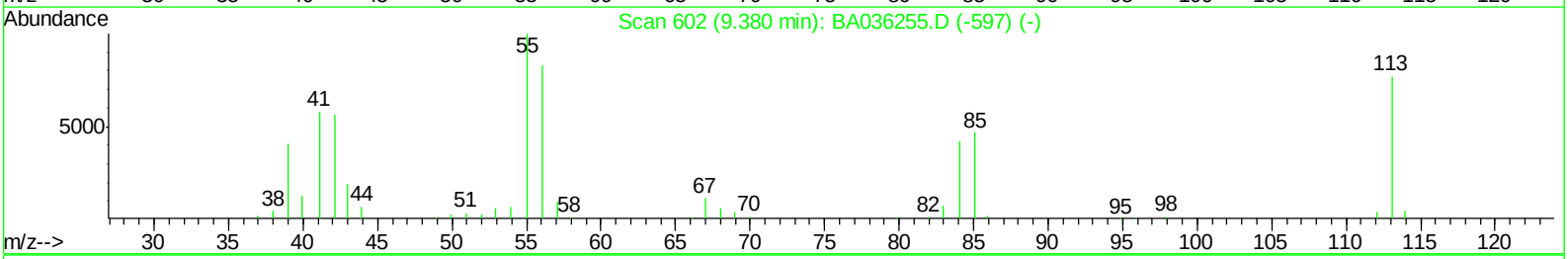
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(30) Caprolactam

9.955min (+0.061) 2.73ng/ul

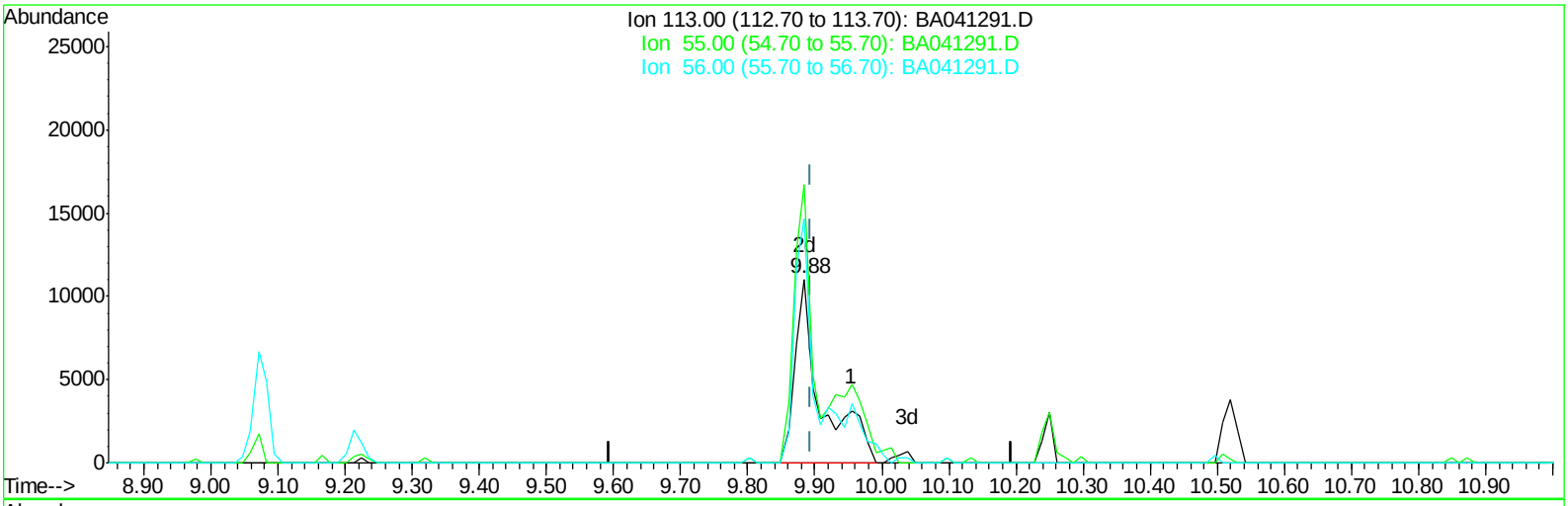
response 7050

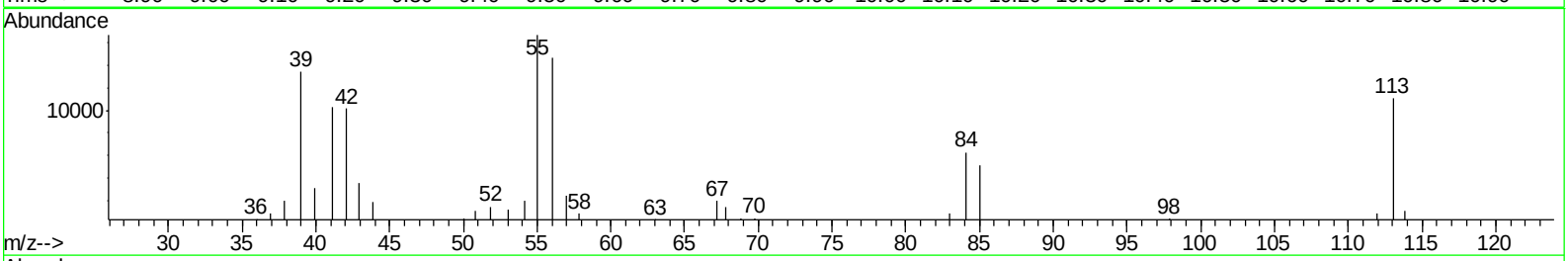
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	150.85
56.00	107.70	114.16
0.00	0.00	0.00

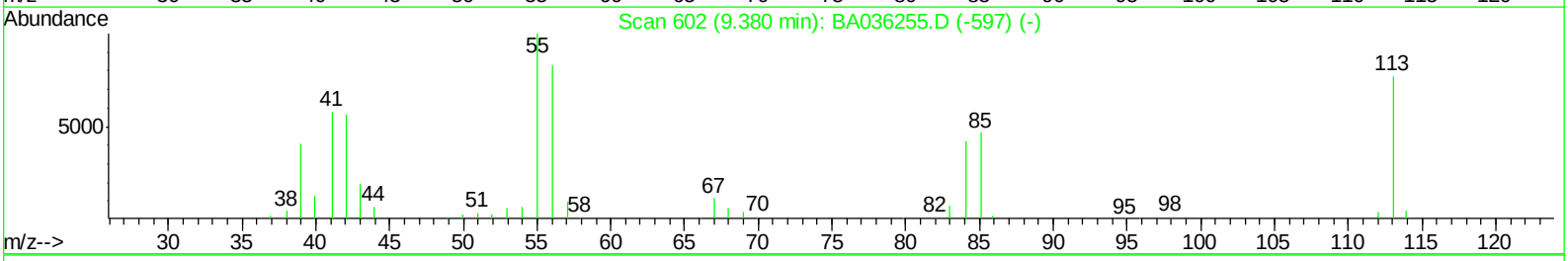
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(30) Caprolactam

9.885min (-0.010) 11.54ng/ul m

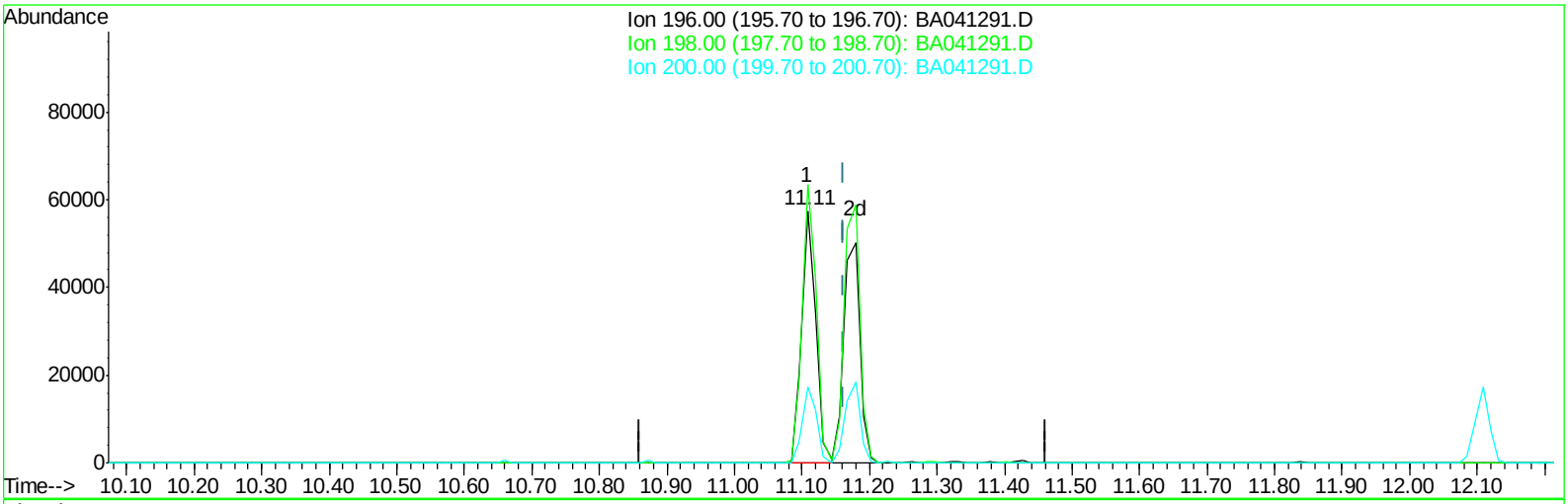
response 29819

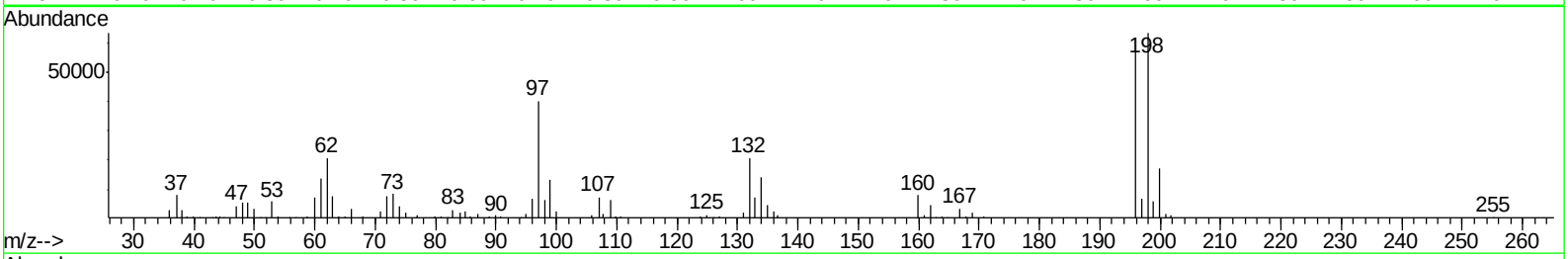
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	151.40
56.00	107.70	132.65#
0.00	0.00	0.00

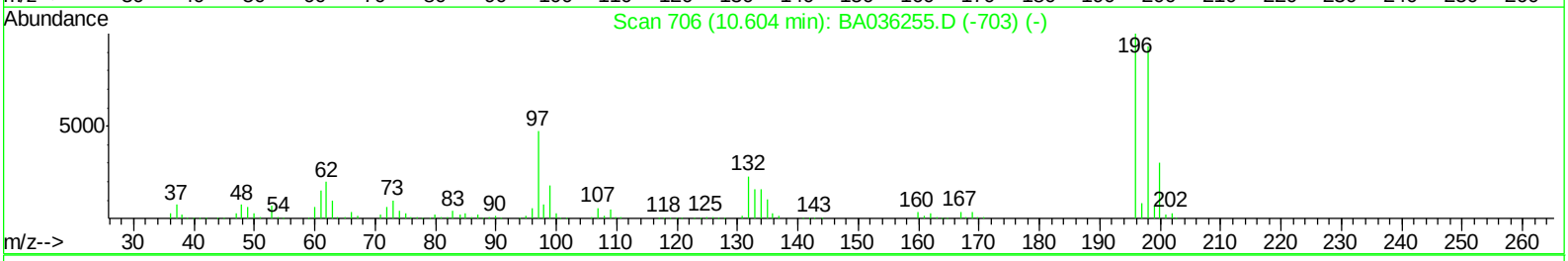
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(37) 2,4,5-Trichlorophenol

11.108min (-0.054) 9.45ng/ul

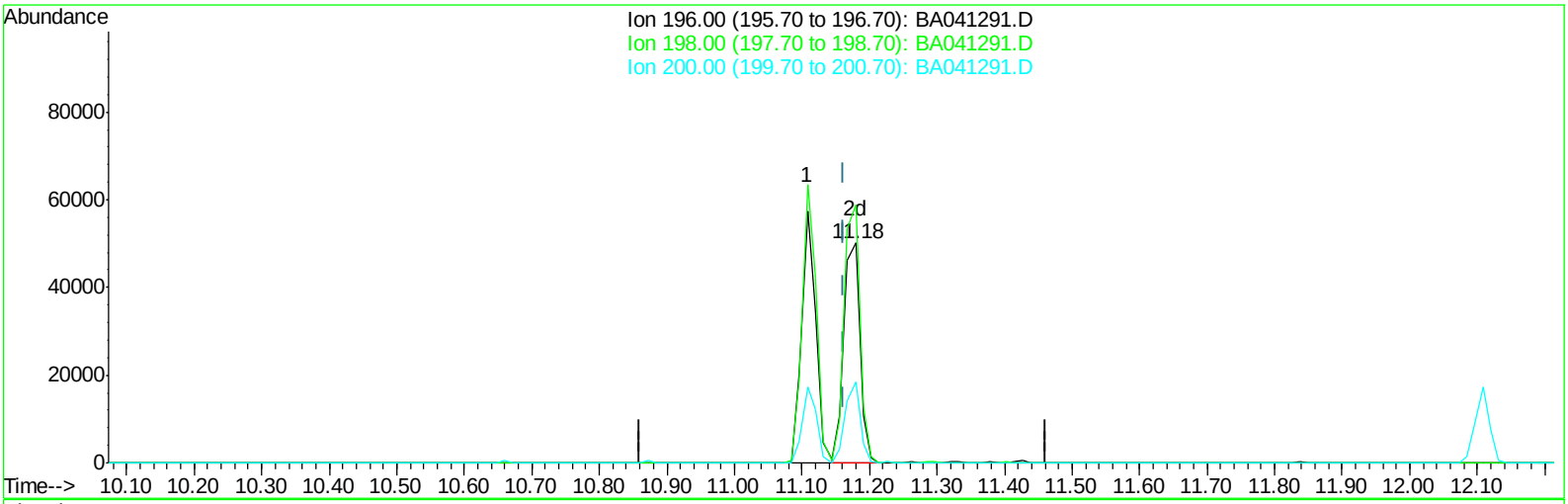
response 83308

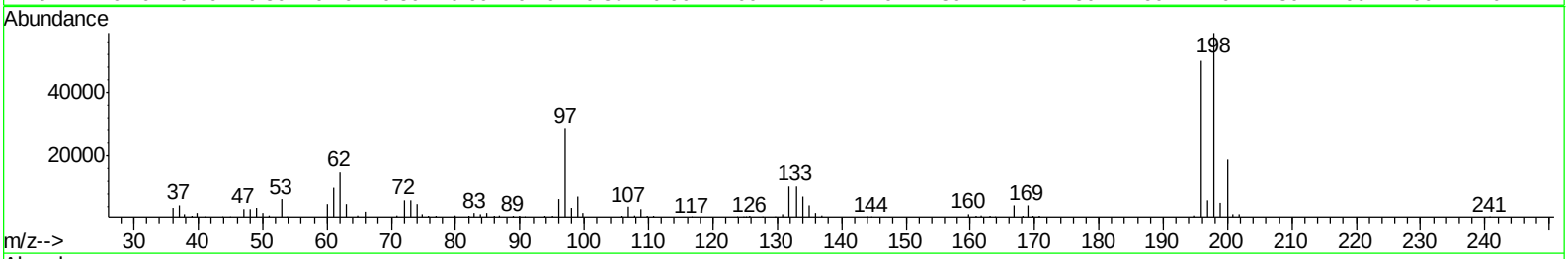
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	110.29
200.00	29.80	29.94
0.00	0.00	0.00

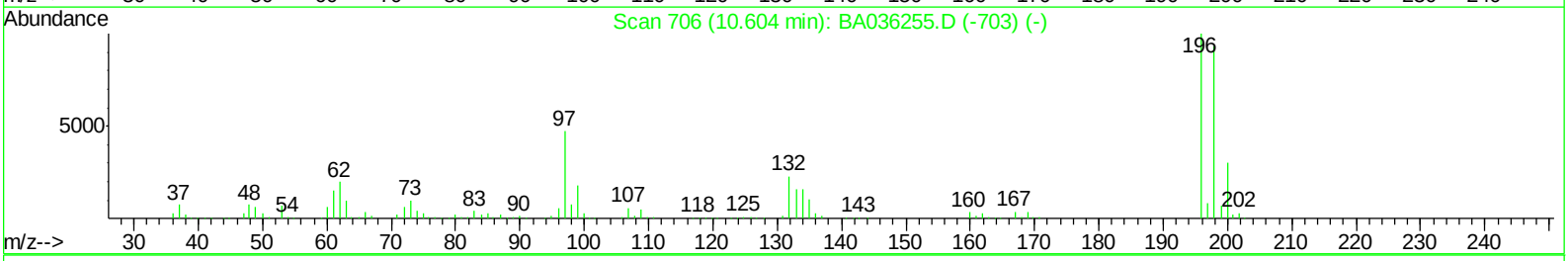
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(37) 2,4,5-Trichlorophenol

11.179min (+0.017) 9.54ng/ul m

response 84056

Ion	Exp%	Act%
196.00	100	100
198.00	93.20	117.41#
200.00	29.80	37.04#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	168902	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	545043	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.66	164	400880	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.75	188	729136	20.00	ng/ul	0.00
73) Chrysene-d12	21.28	240	854938	20.00	ng/ul	-0.03
81) Perylene-d12	25.07	264	770609	20.00	ng/ul	-0.09
System Monitoring Compounds						
3) Phenol-d5	6.04	99	104157	8.06	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.15	67	69796	9.75	ng/ul	0.00
7) 2-Chlorophenol-d4	6.28	132	87536	8.18	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	67864	7.75	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	46483	8.57	ng/ul	0.01
20) 2-Nitrophenol-d4	8.31	143	60787	9.77	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.78	165	108344	12.03	ng/ul	0.00
27) 4-Chloroaniline-d4	9.21	131	109061	9.43	ng/ul	0.00
41) Dimethylphthalate-d6	12.11	166	260817	9.99	ng/ul	0.01
44) Acenaphthylene-d8	12.33	160	315081	8.91	ng/ul	0.02
49) 4-Nitrophenol-d4	12.96	143	51456	8.03	ng/ul	0.00
55) Fluorene-d10	13.73	176	218692	10.15	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.91	200	72915	9.31	ng/ul	0.00
68) Anthracene-d10	15.86	188	346671	9.51	ng/ul	0.01
74) Pyrene-d10	18.71	212	373261	8.26	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.79	264	354121	8.24	ng/ul	-0.11

Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	64657	9.13	ng/ul	92
4) Phenol	6.07	94	110412	8.19	ng/ul#	44
6) Bis(2-Chloroethyl)ether	6.23	93	88816	8.66	ng/ul	94
8) 2-Chlorophenol	6.32	128	97815	9.00	ng/ul#	91
9) 2-Methylphenol	7.14	108	75483	8.42	ng/ul	98
10) 2,2'-oxybis(1-Chloropropan	7.20	45	132794	9.27	ng/ul#	95
12) Acetophenone	7.41	105	133717	10.33	ng/ul#	77
13) N-Nitroso-di-n-propylamine	7.43	70	77646	11.78	ng/ul#	67
14) 4-Methylphenol	7.43	108	80238	8.63	ng/ul	95
15) Hexachloroethane	7.60	117	57453	10.41	ng/ul#	86
18) Nitrobenzene	7.72	77	119954	11.89	ng/ul#	82
19) Isophorone	8.19	82	215378	12.63	ng/ul#	96
21) 2-Nitrophenol	8.34	139	62472	9.75	ng/ul#	75
22) 2,4-Dimethylphenol	8.45	107	107158	11.73	ng/ul	86
23) Bis(2-Chloroethoxy)methane	8.63	93	100193	8.67	ng/ul#	94
25) 2,4-Dichlorophenol	8.80	162	111728	12.27	ng/ul	94
26) Naphthalene	9.12	128	240254	8.99	ng/ul	99
28) 4-Chloroaniline	9.24	127	69167	6.44	ng/ul	98
29) Hexachlorobutadiene	9.40	225	90346	16.92	ng/ul	96
30) Caprolactam	9.88	113	29819m	11.54	ng/ul	
31) 4-Chloro-3-methylphenol	10.25	107	97941	12.67	ng/ul	90
32) 2-Methylnaphthalene	10.52	142	191977	11.07	ng/ul	95
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	140615	11.32	ng/ul	94
35) Hexachlorocyclopentadiene	10.87	237	97956	14.23	ng/ul	94

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

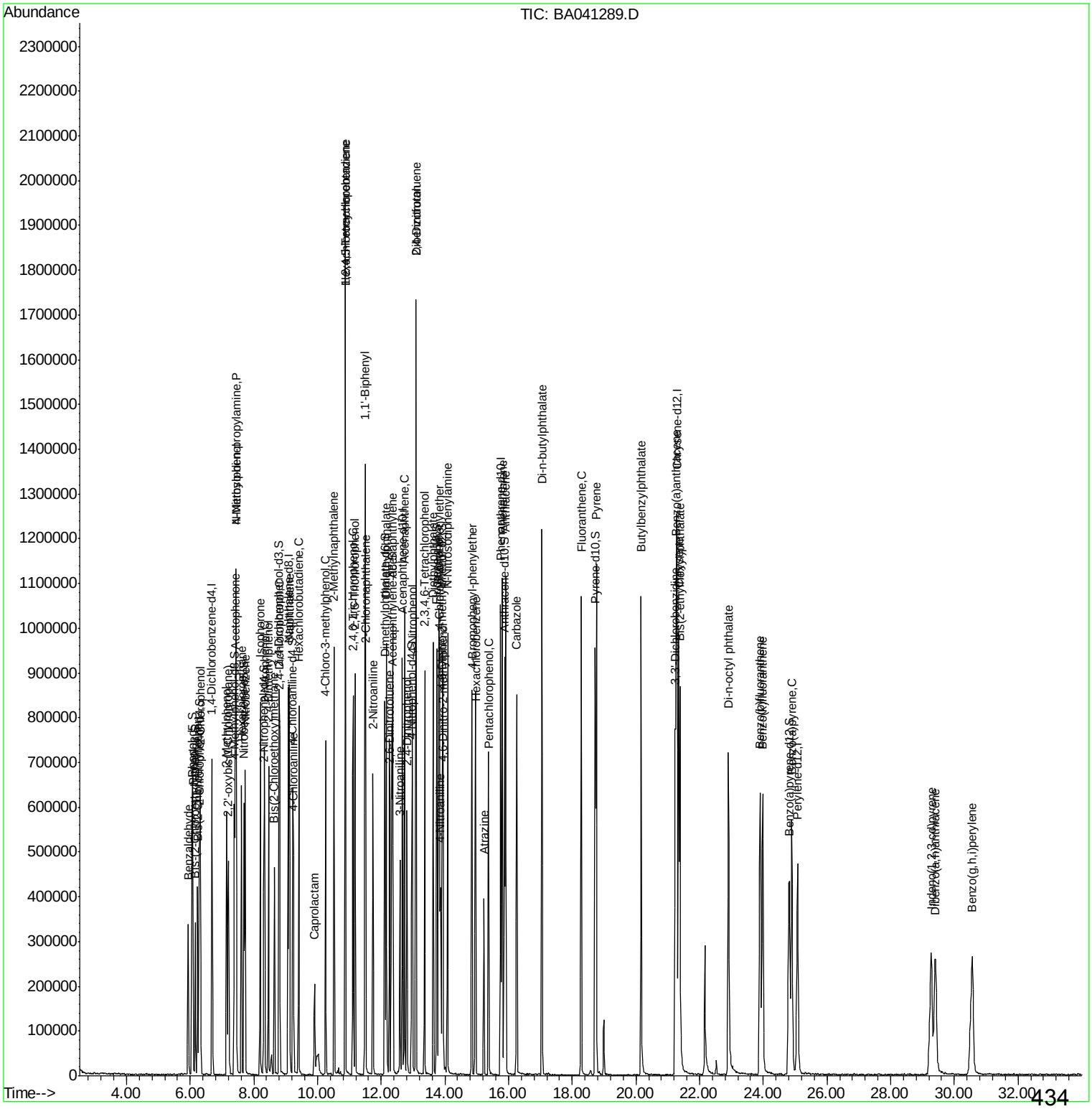
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.11	196	83308	10.15	ng/ul	86
37) 2,4,5-Trichlorophenol	11.18	196	84056m	9.54	ng/ul	
38) 1,1'-Biphenyl	11.49	154	266637	9.56	ng/ul#	93
39) 2-Chloronaphthalene	11.51	162	230014	9.75	ng/ul	95
40) 2-Nitroaniline	11.73	65	70850	10.59	ng/ul	81
42) Dimethylphthalate	12.15	163	301075	11.09	ng/ul	99
43) 2,6-Dinitrotoluene	12.26	165	68070	9.54	ng/ul	92
45) Acenaphthylene	12.36	152	315685	9.03	ng/ul	95
46) 3-Nitroaniline	12.58	138	54427	7.86	ng/ul#	70
47) Acenaphthene	12.72	153	209632	9.94	ng/ul	96
48) 2,4-Dinitrophenol	12.80	184	54950	12.96	ng/ul#	83
50) 4-Nitrophenol	12.97	109	63311	15.20	ng/ul#	60
51) Dibenzofuran	13.09	168	298402	9.62	ng/ul#	87
52) 2,4-Dinitrotoluene	13.09	165	91193	10.19	ng/ul#	23
53) 2,3,4,6-Tetrachlorophenol	13.36	232	85434	12.16	ng/ul#	92
54) Diethylphthalate	13.63	149	286186	10.56	ng/ul	97
56) Fluorene	13.80	166	245237	9.71	ng/ul	98
57) 4-Chlorophenyl-phenylether	13.83	204	132018	10.70	ng/ul	97
58) 4-Nitroaniline	13.85	138	57658	8.66	ng/ul#	21
61) 4,6-Dinitro-2-methylphenol	13.92	198	75727	9.96	ng/ul#	96
62) N-Nitrosodiphenylamine	14.08	169	197771	8.08	ng/ul	98
63) 4-Bromophenyl-phenylether	14.84	248	88886	10.02	ng/ul	93
64) Hexachlorobenzene	14.96	284	108676	10.50	ng/ul	95
65) Atrazine	15.22	200	35500	4.67	ng/ul	87
66) Pentachlorophenol	15.37	266	73196	11.97	ng/ul	90
67) Phenanthrene	15.79	178	354319	8.00	ng/ul	99
69) Anthracene	15.90	178	376792	8.75	ng/ul	96
70) Carbazole	16.25	167	328314	8.60	ng/ul	95
71) Di-n-butylphthalate	17.04	149	492261	8.56	ng/ul#	97
72) Fluoranthene	18.28	202	443396	9.64	ng/ul#	87
75) Pyrene	18.75	202	481151	8.40	ng/ul#	83
76) Butylbenzylphthalate	20.16	149	218838	7.31	ng/ul	86
77) 3,3'-Dichlorobenzidine	21.23	252	128809	7.76	ng/ul#	96
78) Benzo(a)anthracene	21.26	228	443795	8.00	ng/ul	96
79) Bis(2-ethylhexyl)phthalate	21.38	149	241943	7.14	ng/ul#	92
80) Chrysene	21.34	228	409735	8.39	ng/ul	98
82) Di-n-octyl phthalate	22.90	149	400469	6.39	ng/ul	100
83) Benzo(b)fluoranthene	23.88	252	422477	8.20	ng/ul#	90
84) Benzo(k)fluoranthene	23.97	252	417194	8.25	ng/ul#	95
86) Benzo(a)pyrene	24.87	252	405701	8.56	ng/ul#	95
87) Indeno(1,2,3-cd)pyrene	29.24	276	334187	8.18	ng/ul#	66
88) Dibenzo(a,h)anthracene	29.36	278	294407	7.51	ng/ul#	92
89) Benzo(g,h,i)perylene	30.51	276	351018	7.96	ng/ul#	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

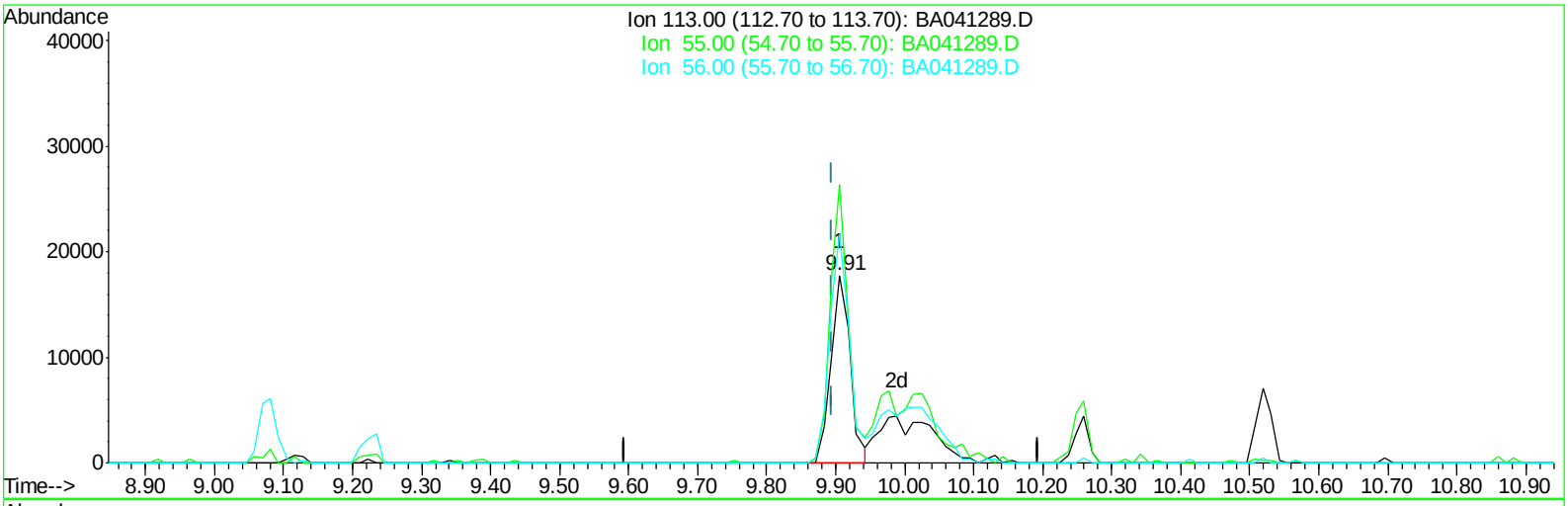
Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

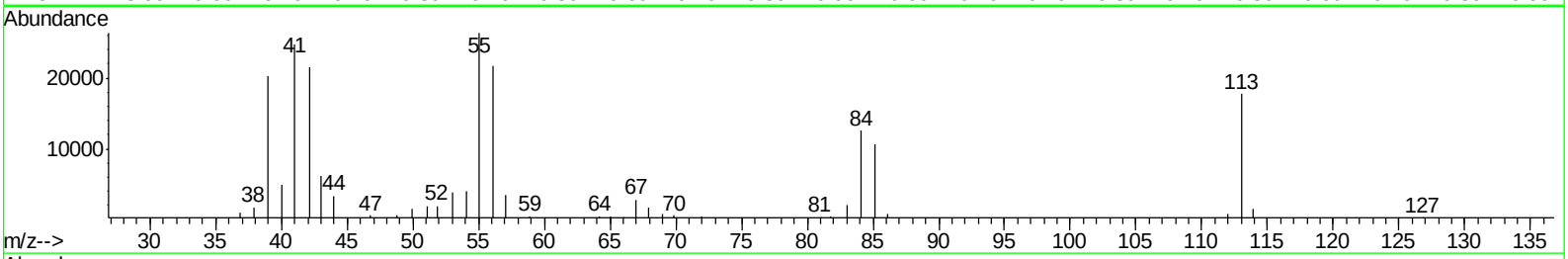


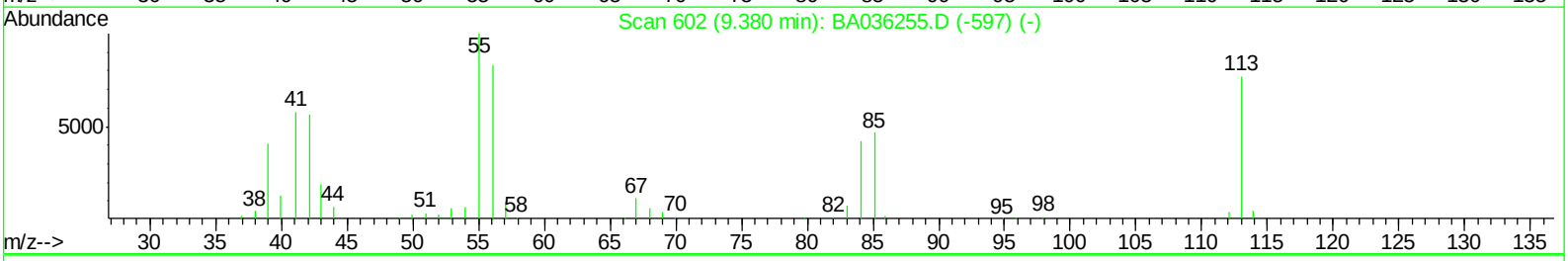
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 13.31ng/ul

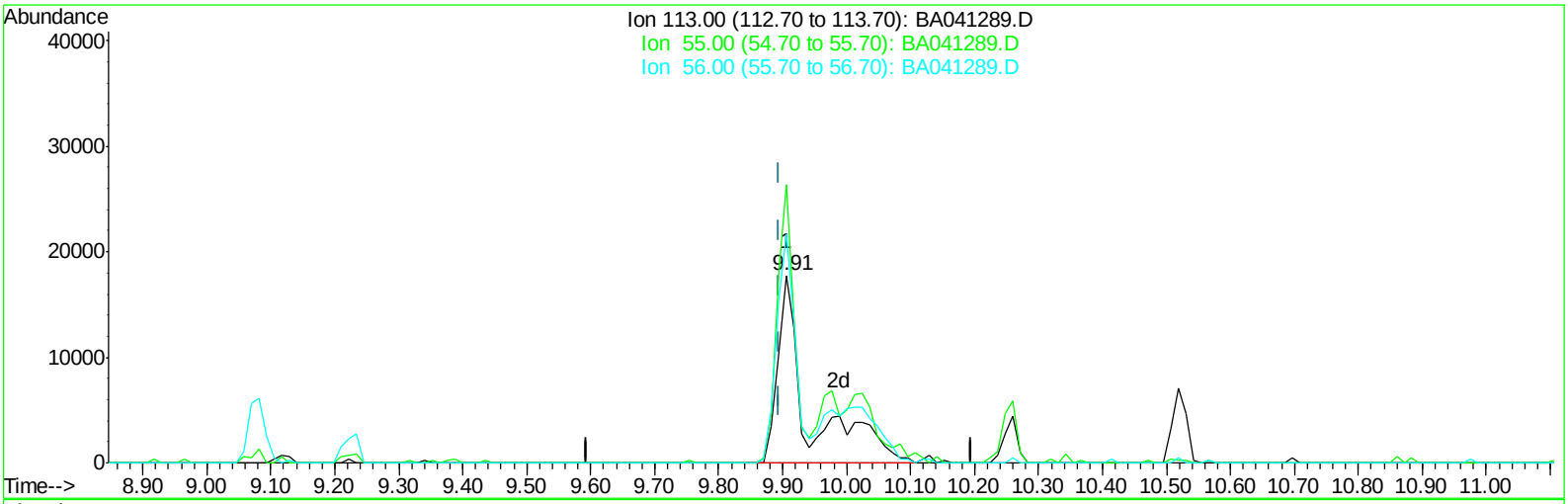
response 34423

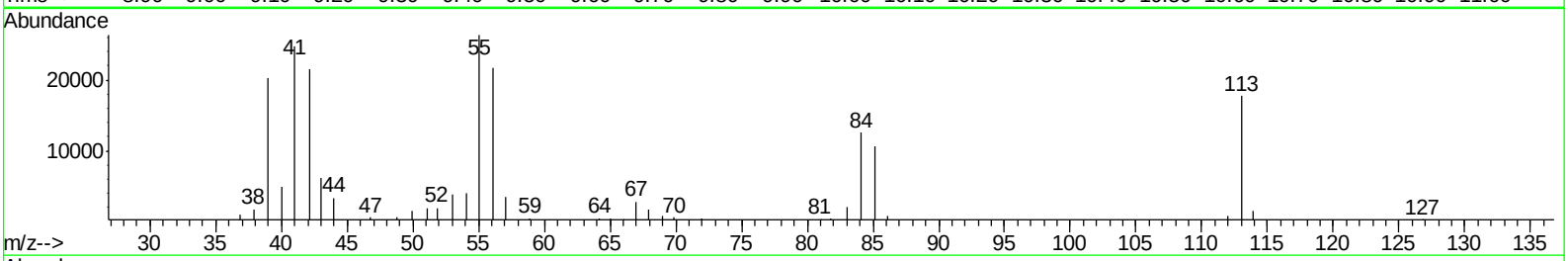
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

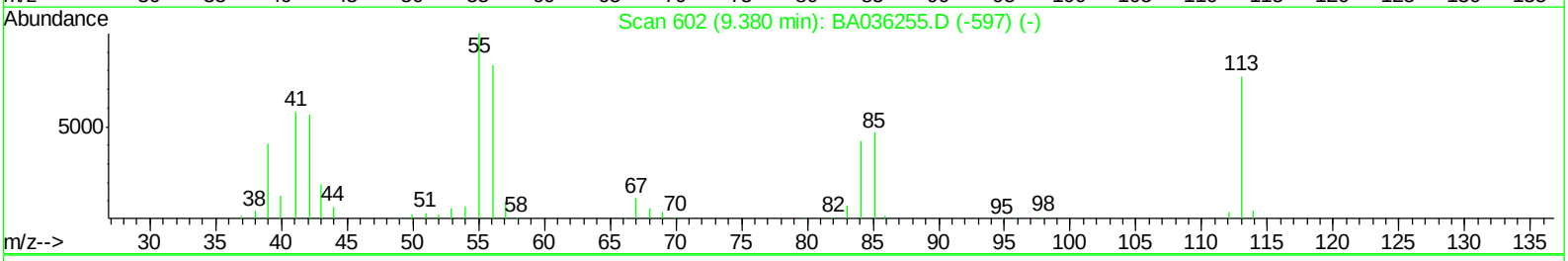
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 22.67ng/ul m

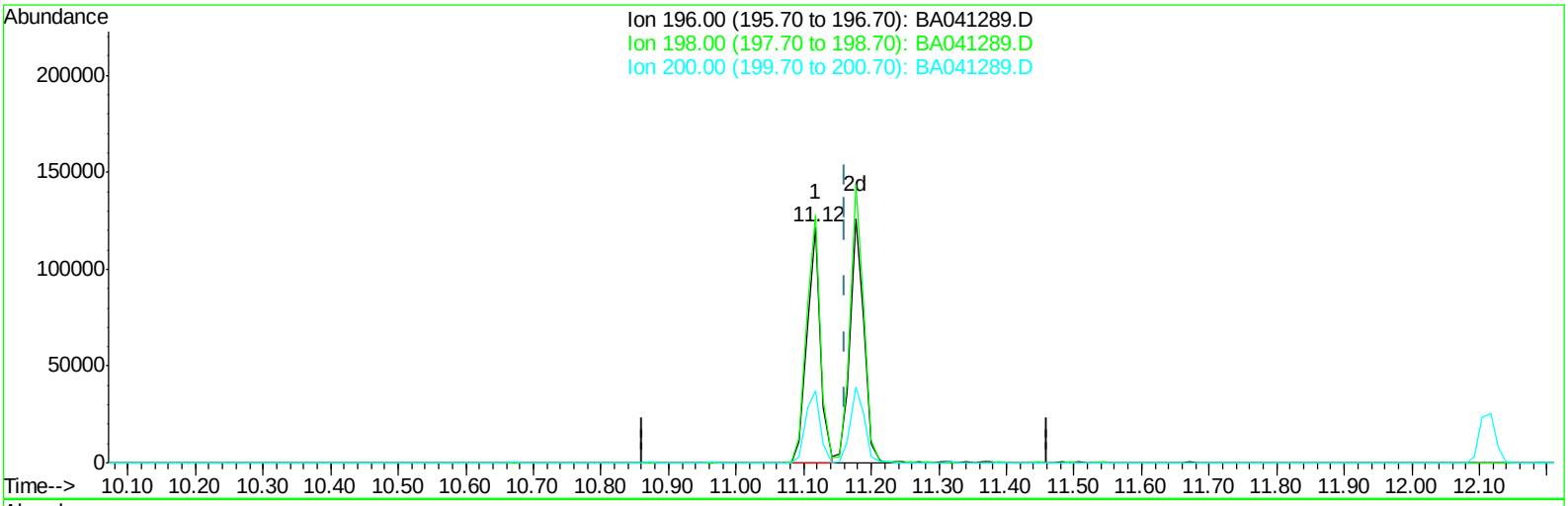
response 58639

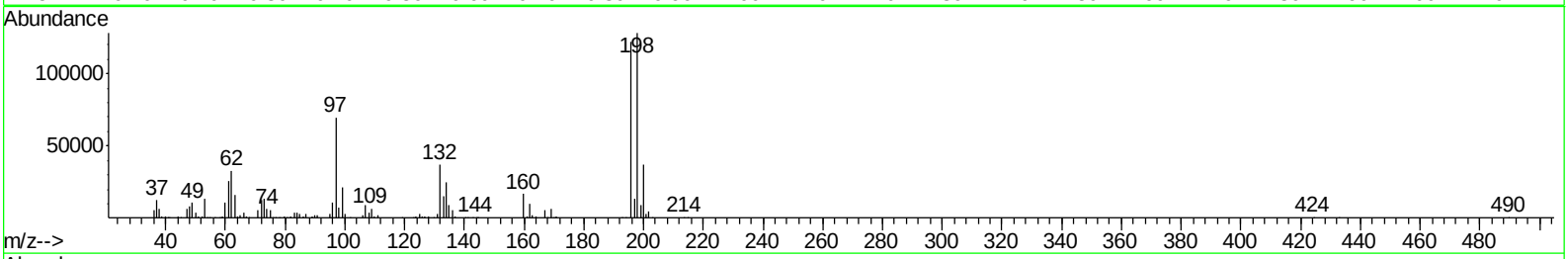
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

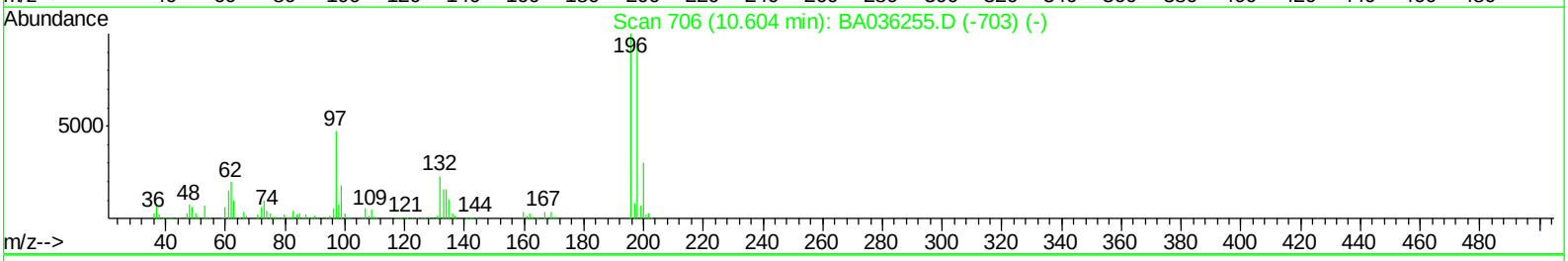
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.118min (-0.044) 19.11ng/ul

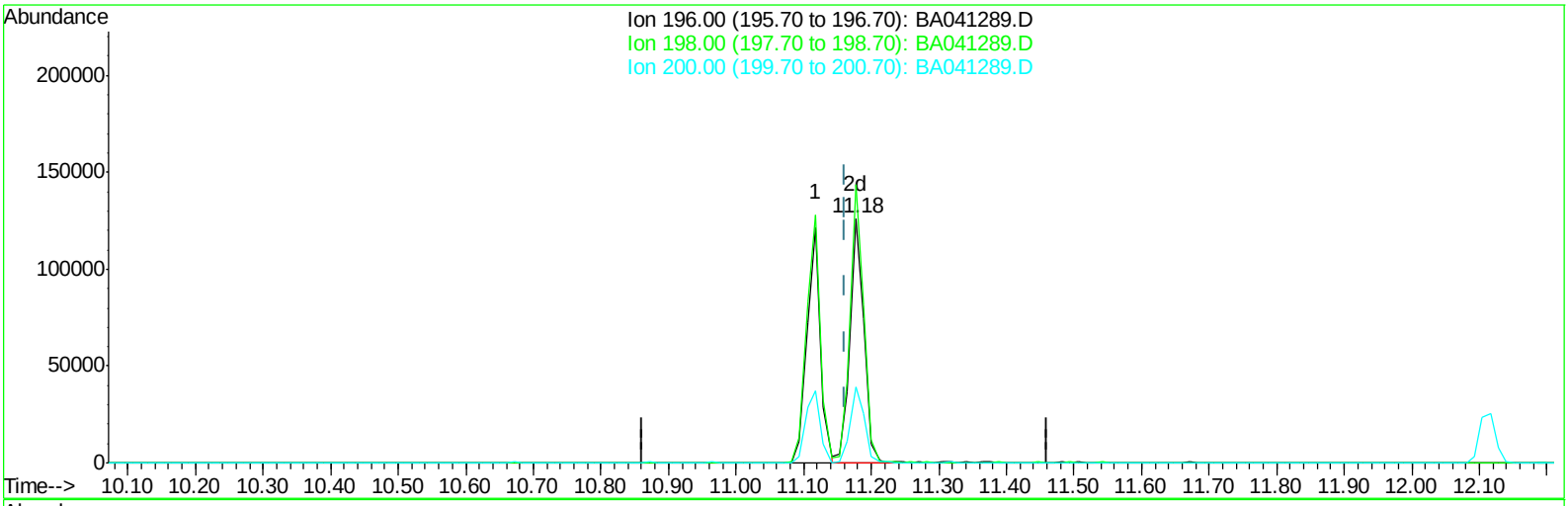
response 168238

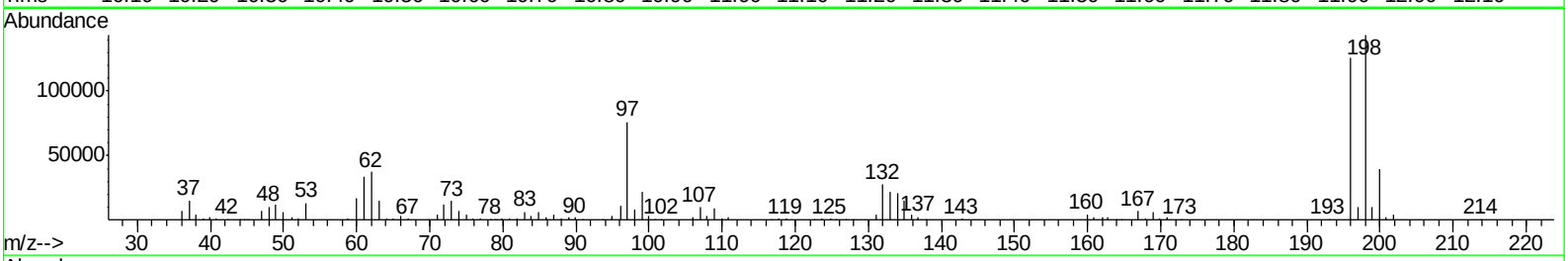
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	105.29
200.00	29.80	30.71
0.00	0.00	0.00

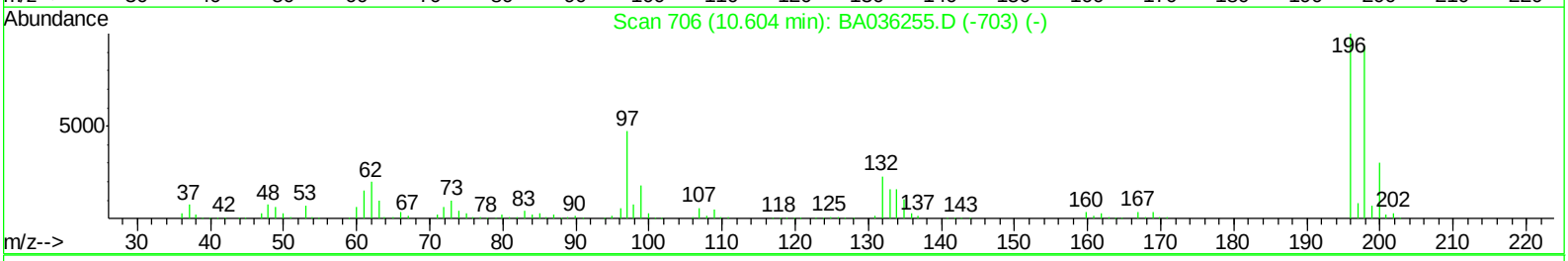
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.177min (+0.015) 20.14ng/ul m

response 177236

Ion	Exp%	Act%
196.00	100	100
198.00	93.20	113.87#
200.00	29.80	31.05
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	165870	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	545763	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.67	164	400296	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.76	188	734942	20.00	ng/ul	0.02
73) Chrysene-d12	21.29	240	863637	20.00	ng/ul	-0.02
81) Perylene-d12	25.07	264	688065	20.00	ng/ul	-0.09
System Monitoring Compounds						
3) Phenol-d5	6.06	99	186621	14.70	ng/ul	0.02
5) Bis-(2-Chloroethyl)ether-d	6.15	67	132940	18.90	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	174573	16.62	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	136003	15.82	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	95677	17.61	ng/ul	0.01
20) 2-Nitrophenol-d4	8.32	143	113713	18.26	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.79	165	213796	23.71	ng/ul	0.01
27) 4-Chloroaniline-d4	9.22	131	208874	18.04	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	525622	20.15	ng/ul	0.02
44) Acenaphthylene-d8	12.34	160	637095	18.04	ng/ul	0.02
49) 4-Nitrophenol-d4	12.96	143	106542	16.65	ng/ul	0.02
55) Fluorene-d10	13.74	176	411456	19.13	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	144029	18.25	ng/ul	0.01
68) Anthracene-d10	15.86	188	696653	18.96	ng/ul	0.01
74) Pyrene-d10	18.72	212	728593	15.95	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	698946	18.21	ng/ul	-0.08

Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	103750	14.91	ng/ul	87
4) Phenol	6.08	94	216356	16.34	ng/ul#	53
6) Bis(2-Chloroethyl)ether	6.23	93	168168	16.69	ng/ul#	84
8) 2-Chlorophenol	6.32	128	192661	18.06	ng/ul#	83
9) 2-Methylphenol	7.14	108	146246	16.61	ng/ul	97
10) 2,2'-oxybis(1-Chloropropan	7.20	45	258881	18.41	ng/ul	99
12) Acetophenone	7.42	105	275375	21.67	ng/ul#	80
13) N-Nitroso-di-n-propylamine	7.45	70	132821	20.52	ng/ul#	68
14) 4-Methylphenol	7.45	108	143778	15.74	ng/ul	86
15) Hexachloroethane	7.61	117	106361	19.63	ng/ul#	80
18) Nitrobenzene	7.73	77	221353	21.91	ng/ul#	90
19) Isophorone	8.20	82	454028	26.59	ng/ul	93
21) 2-Nitrophenol	8.34	139	123405	19.23	ng/ul#	66
22) 2,4-Dimethylphenol	8.46	107	207124	22.64	ng/ul	92
23) Bis(2-Chloroethoxy)methane	8.65	93	209308	18.08	ng/ul#	96
25) 2,4-Dichlorophenol	8.81	162	218866	24.00	ng/ul#	93
26) Naphthalene	9.12	128	476882	17.81	ng/ul	96
28) 4-Chloroaniline	9.25	127	147026	13.67	ng/ul	99
29) Hexachlorobutadiene	9.41	225	169292	31.67	ng/ul	94
30) Caprolactam	9.91	113	58639m	22.67	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	180855	23.36	ng/ul	94
32) 2-Methylnaphthalene	10.52	142	370782	21.36	ng/ul	95
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	304728	24.57	ng/ul	94
35) Hexachlorocyclopentadiene	10.87	237	208950	30.40	ng/ul	99

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

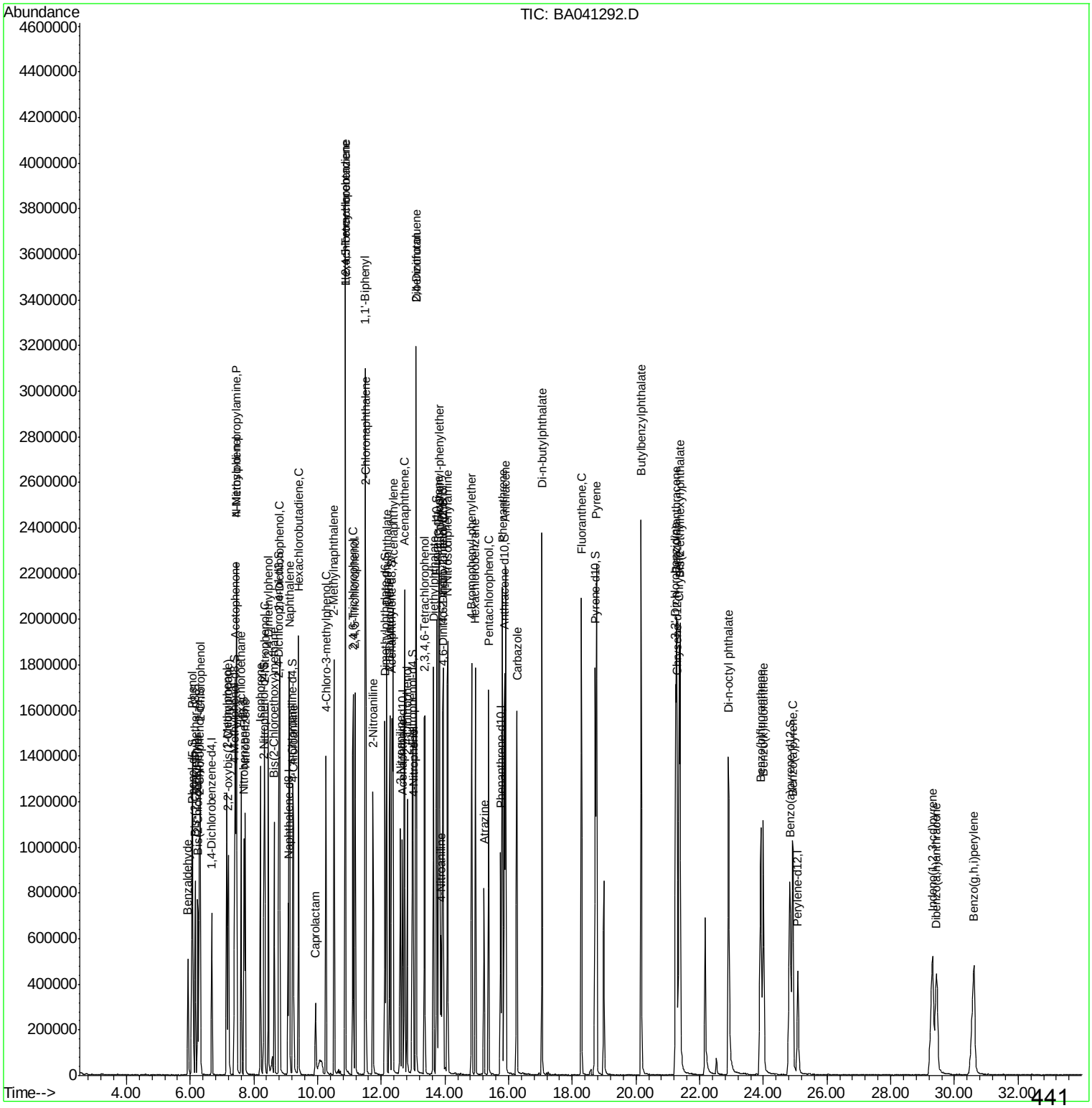
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	168238	20.52 ng/ul	90
37) 2,4,5-Trichlorophenol	11.18	196	177236m	20.14 ng/ul	
38) 1,1'-Biphenyl	11.49	154	524452	18.82 ng/ul#	93
39) 2-Chloronaphthalene	11.52	162	458657	19.47 ng/ul	95
40) 2-Nitroaniline	11.74	65	143010	21.40 ng/ul#	76
42) Dimethylphthalate	12.16	163	572137	21.11 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	143898	20.19 ng/ul	93
45) Acenaphthylene	12.36	152	605238	17.34 ng/ul#	93
46) 3-Nitroaniline	12.60	138	110110	15.93 ng/ul	99
47) Acenaphthene	12.73	153	408102	19.38 ng/ul	94
48) 2,4-Dinitrophenol	12.81	184	111732	26.40 ng/ul#	87
50) 4-Nitrophenol	12.98	109	120941	29.08 ng/ul#	71
51) Dibenzofuran	13.09	168	596874	19.27 ng/ul#	85
52) 2,4-Dinitrotoluene	13.09	165	179165	20.06 ng/ul#	57
53) 2,3,4,6-Tetrachlorophenol	13.36	232	174059	24.80 ng/ul#	88
54) Diethylphthalate	13.64	149	554598	20.49 ng/ul	99
56) Fluorene	13.80	166	485913	19.26 ng/ul	98
57) 4-Chlorophenyl-phenylether	13.84	204	267647	21.73 ng/ul	94
58) 4-Nitroaniline	13.86	138	98050	14.74 ng/ul#	56
61) 4,6-Dinitro-2-methylphenol	13.94	198	149082	19.46 ng/ul	93
62) N-Nitrosodiphenylamine	14.08	169	420493	17.04 ng/ul	97
63) 4-Bromophenyl-phenylether	14.85	248	177082	19.81 ng/ul	90
64) Hexachlorobenzene	14.97	284	206010	19.74 ng/ul	96
65) Atrazine	15.23	200	71945	9.39 ng/ul	93
66) Pentachlorophenol	15.38	266	156819	25.43 ng/ul	94
67) Phenanthrene	15.80	178	736152	16.48 ng/ul	100
69) Anthracene	15.91	178	725047	16.70 ng/ul	99
70) Carbazole	16.25	167	653398	16.99 ng/ul	98
71) Di-n-butylphthalate	17.05	149	941636	16.24 ng/ul#	95
72) Fluoranthene	18.28	202	867225	18.71 ng/ul#	86
75) Pyrene	18.76	202	896458	15.49 ng/ul#	85
76) Butylbenzylphthalate	20.16	149	464058	15.35 ng/ul	97
77) 3,3'-Dichlorobenzidine	21.23	252	298536	17.81 ng/ul	96
78) Benzo(a)anthracene	21.27	228	857385	15.29 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.38	149	436825	12.76 ng/ul	99
80) Chrysene	21.35	228	759670	15.39 ng/ul	95
82) Di-n-octyl phthalate	22.90	149	868725	15.53 ng/ul	100
83) Benzo(b)fluoranthene	23.90	252	863642	18.77 ng/ul#	91
84) Benzo(k)fluoranthene	23.98	252	746117	16.53 ng/ul#	94
86) Benzo(a)pyrene	24.90	252	780602	18.44 ng/ul#	91
87) Indeno(1,2,3-cd)pyrene	29.28	276	710531	19.49 ng/ul#	65
88) Dibenzo(a,h)anthracene	29.40	278	574259	16.41 ng/ul#	90
89) Benzo(g,h,i)perylene	30.56	276	730437	18.56 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

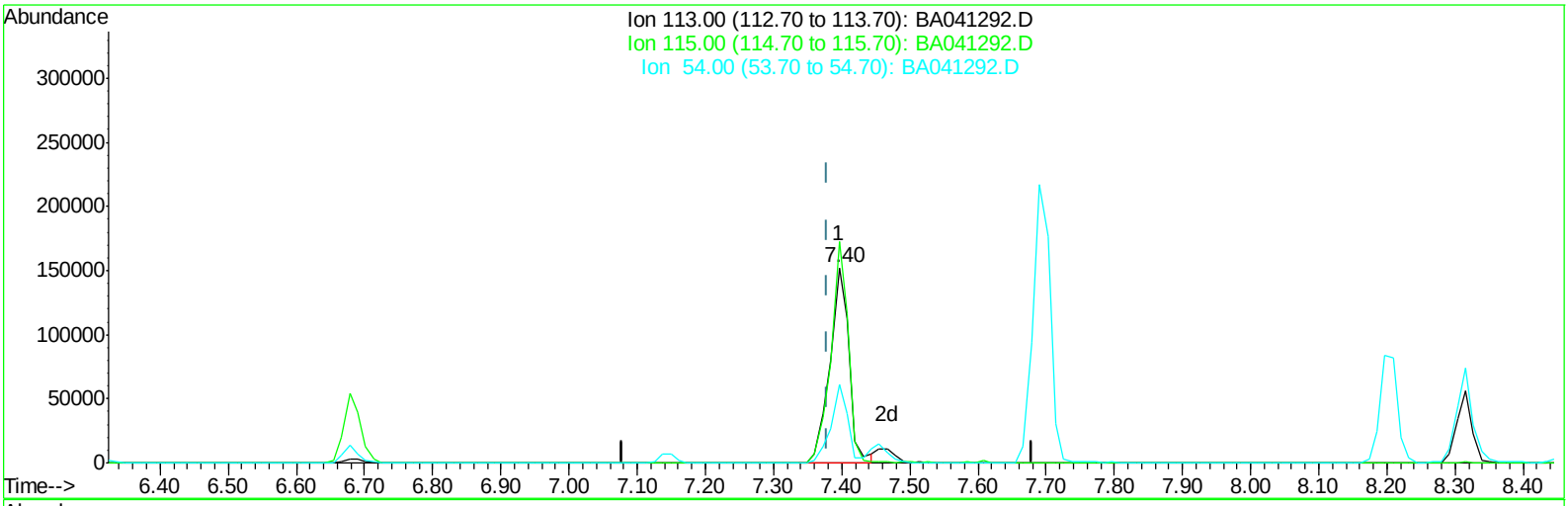
Quant Time: Oct 20 11:10:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

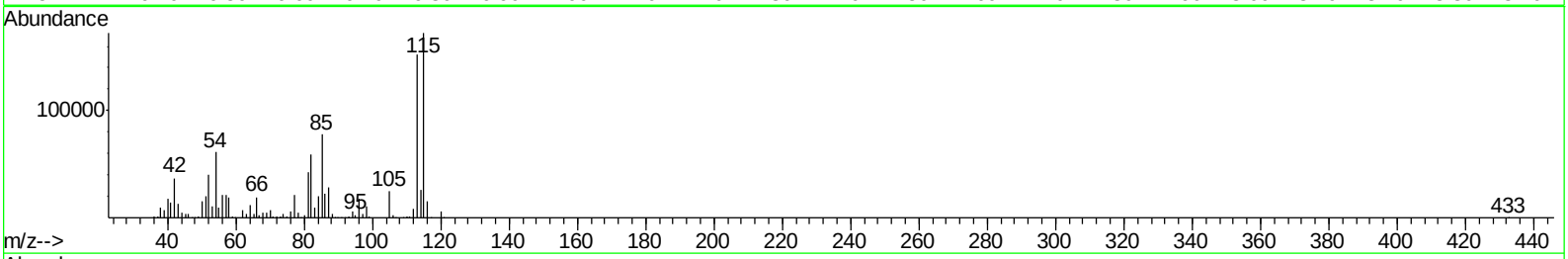


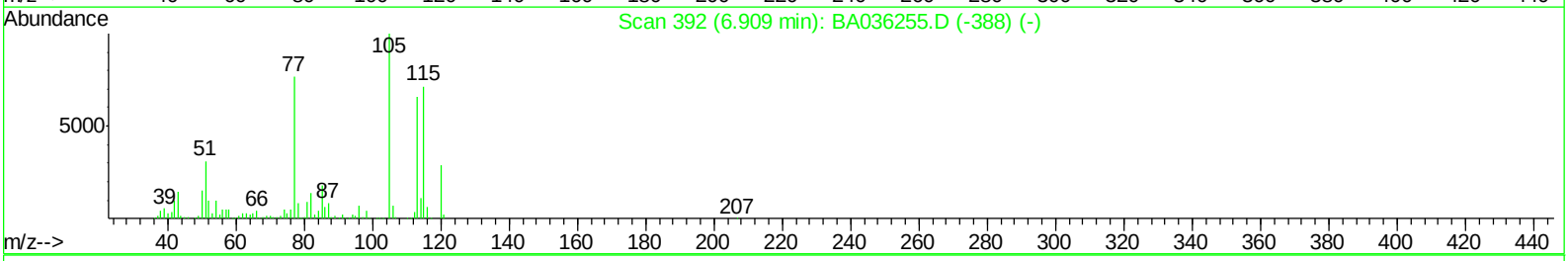
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(11) 4-Methylphenol-d8 (S)

7.396min (+0.016) 33.61ng/ul

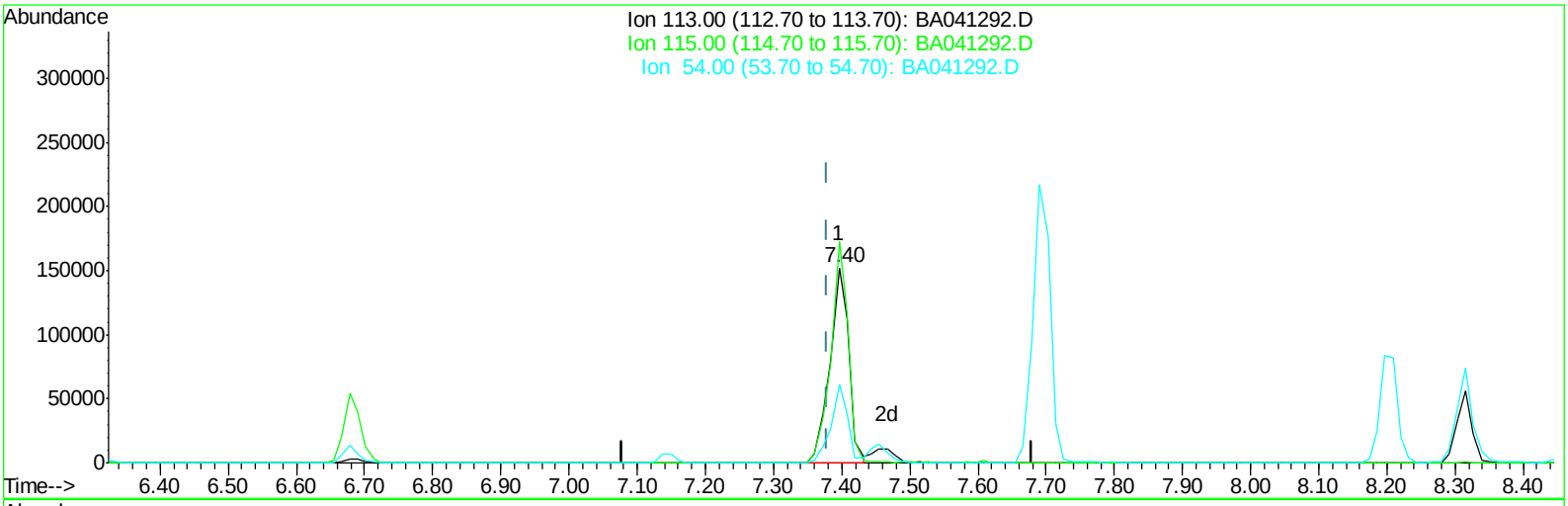
response 296928

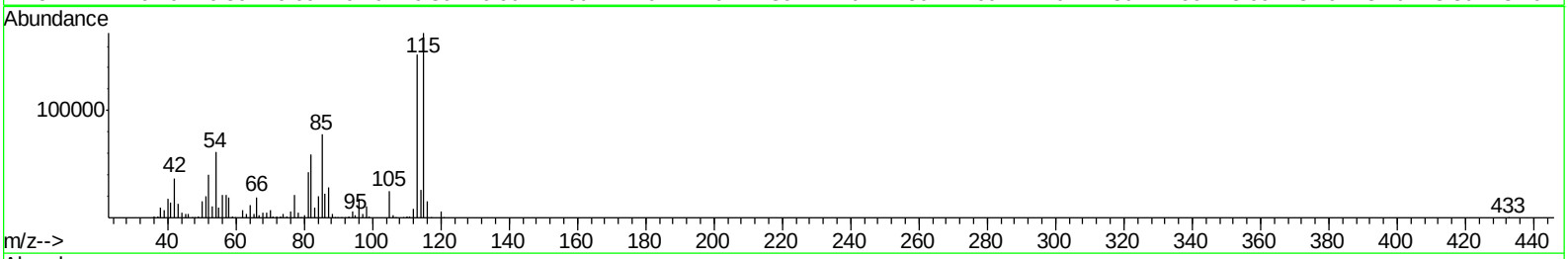
Ion	Exp%	Act%
113.00	100	100
115.00	108.80	113.29
54.00	14.90	40.27#
0.00	0.00	0.00

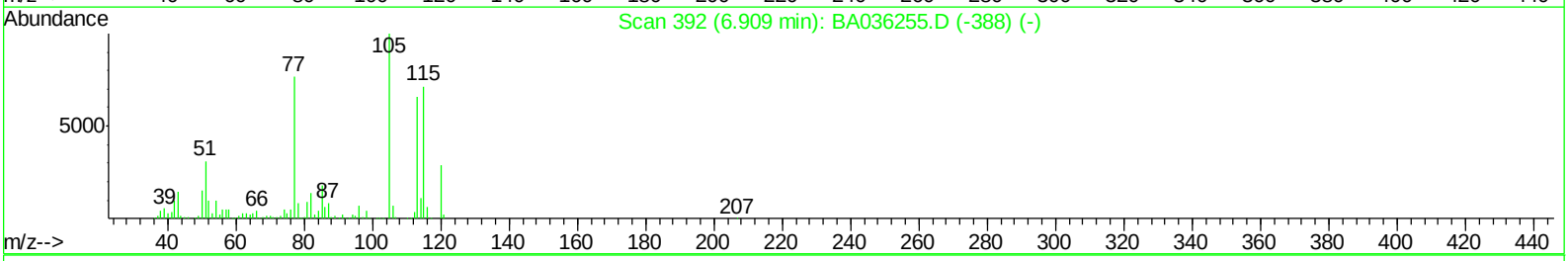
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(11) 4-Methylphenol-d8 (S)

7.396min (+0.016) 33.02ng/ul m

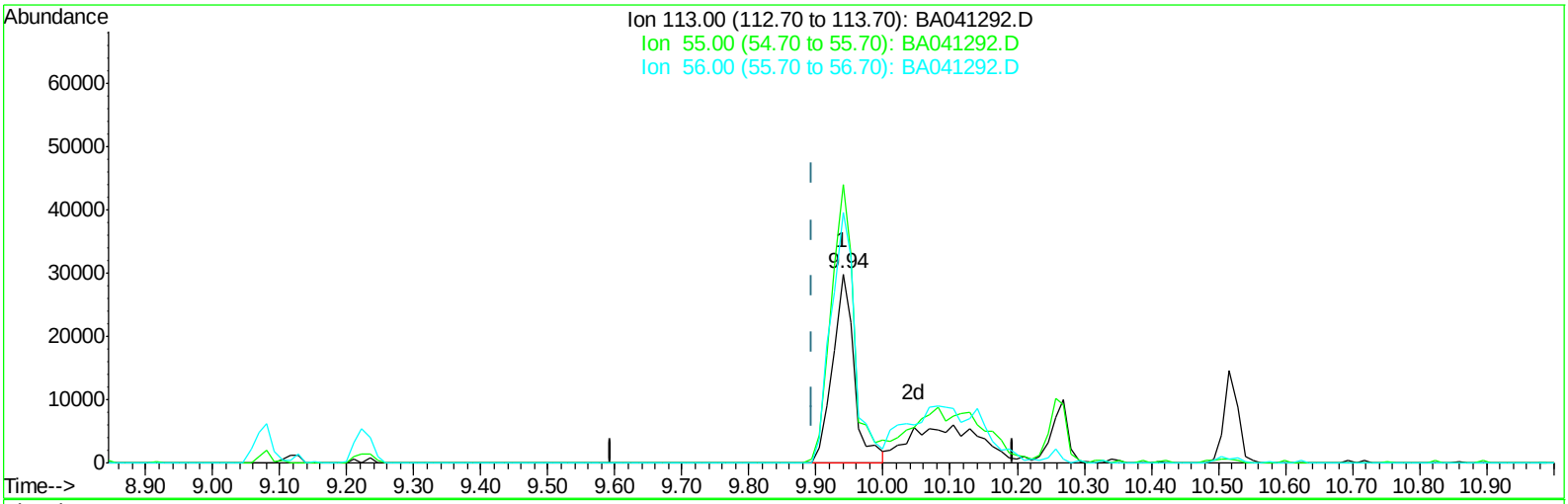
response 291706

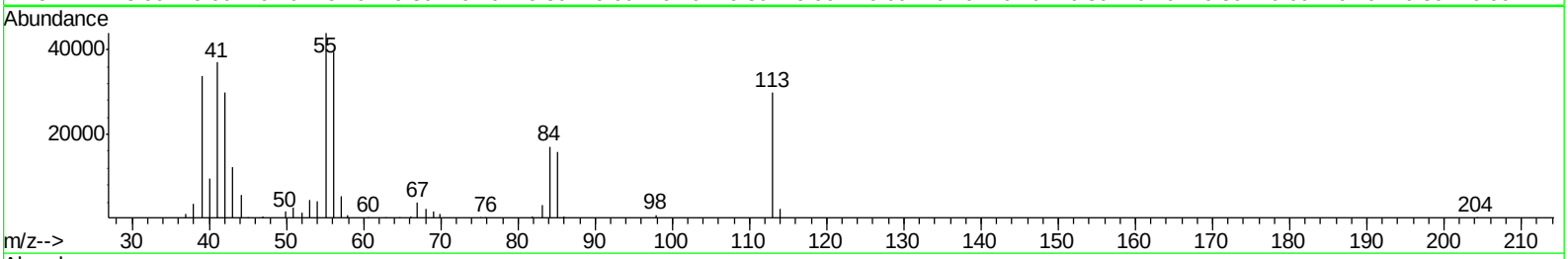
Ion	Exp%	Act%
113.00	100	100
115.00	108.80	113.29
54.00	14.90	40.27#
0.00	0.00	0.00

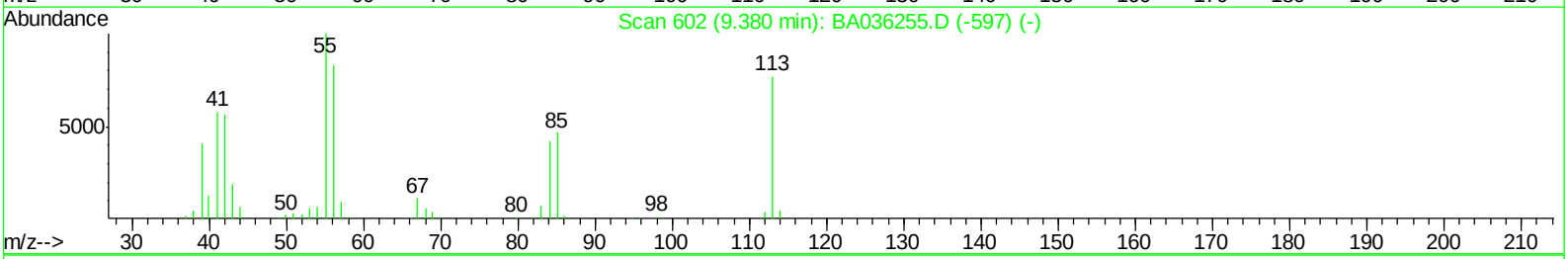
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(30) Caprolactam

9.940min (+0.045) 25.90ng/ul

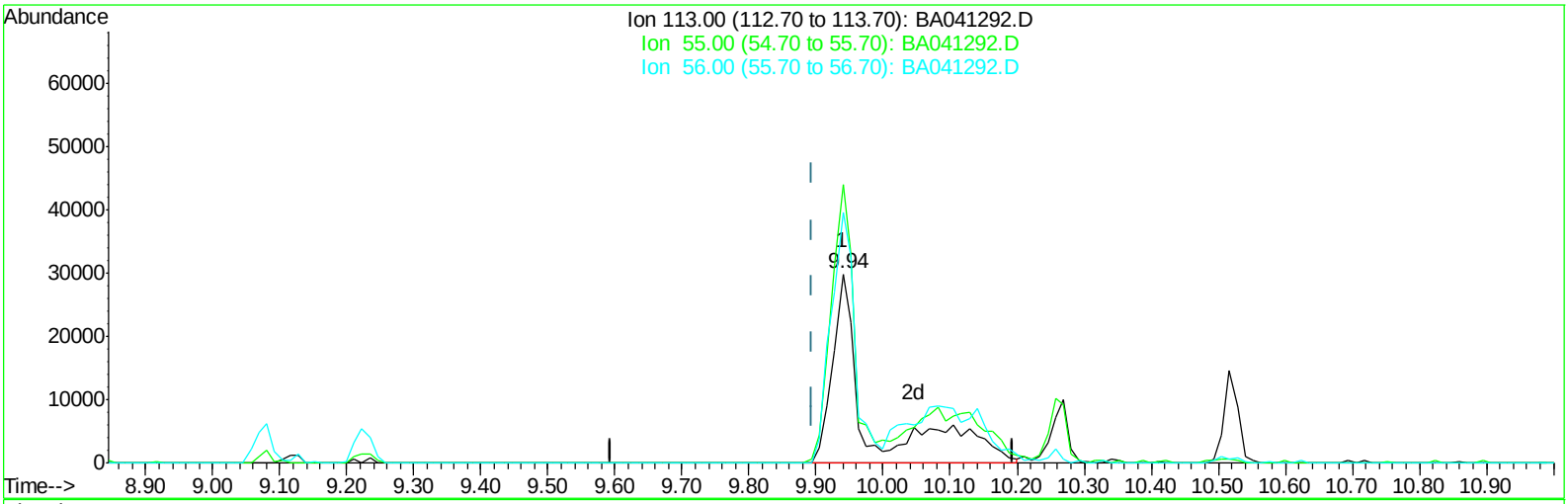
response 66585

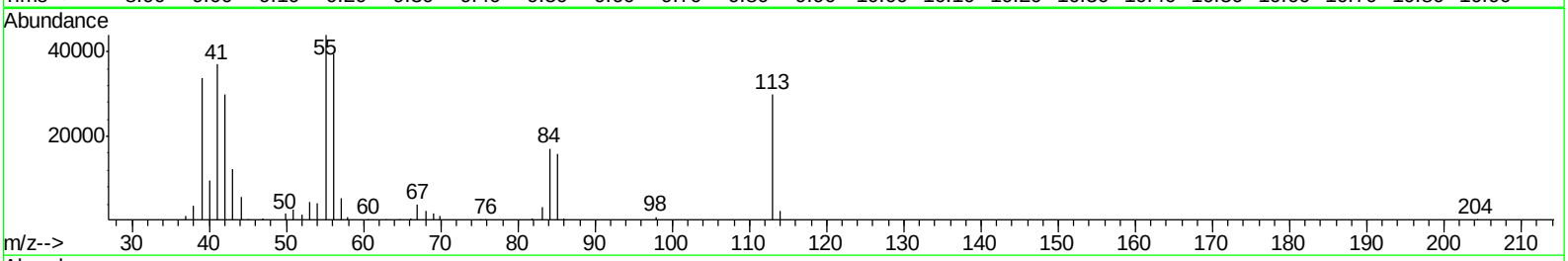
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	147.36
56.00	107.70	132.49#
0.00	0.00	0.00

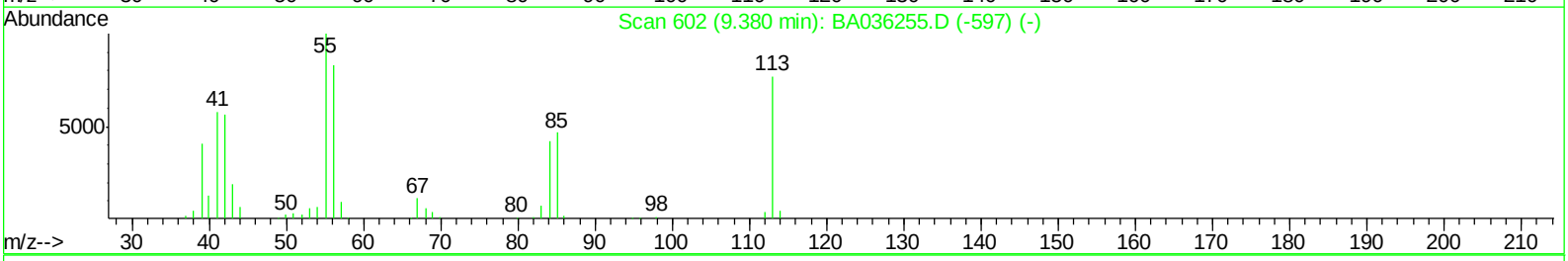
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(30) Caprolactam

9.940min (+0.045) 43.13ng/ul m

response 110871

Ion	Exp%	Act%
113.00	100	100
55.00	130.00	147.36
56.00	107.70	132.49#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:10:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	170460	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	542376	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.66	164	369826	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.75	188	705586	20.00	ng/ul	0.00
73) Chrysene-d12	21.29	240	813655	20.00	ng/ul	-0.02
81) Perylene-d12	25.09	264	606670	20.00	ng/ul	-0.08
System Monitoring Compounds						
3) Phenol-d5	6.05	99	430072	32.97	ng/ul	0.01
5) Bis-(2-Chloroethyl)ether-d	6.16	67	294586	40.76	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	368475	34.13	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	291706m	33.02	ng/ul	0.02
17) Nitrobenzene-d5	7.69	128	200965	37.21	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	245994	39.74	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.79	165	468599	52.29	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	445118	38.68	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	1043198	43.29	ng/ul	0.02
44) Acenaphthylene-d8	12.33	160	1258073	38.55	ng/ul	0.02
49) 4-Nitrophenol-d4	12.98	143	205672	34.79	ng/ul	0.03
55) Fluorene-d10	13.75	176	823063	41.42	ng/ul	0.01
60) 4,6-Dinitro-2-methylphenol	13.93	200	309241	40.81	ng/ul	0.03
68) Anthracene-d10	15.88	188	1349536	38.26	ng/ul	0.02
74) Pyrene-d10	18.72	212	1446477	33.62	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.84	264	1494240	44.16	ng/ul	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	5.92	77	157030	21.97	ng/ul	88
4) Phenol	6.08	94	475613	34.95	ng/ul#	51
6) Bis(2-Chloroethyl)ether	6.23	93	359181	34.69	ng/ul#	86
8) 2-Chlorophenol	6.31	128	408738	37.28	ng/ul#	83
9) 2-Methylphenol	7.15	108	325289	35.94	ng/ul	92
10) 2,2'-oxybis(1-Chloropropan	7.20	45	565586	39.13	ng/ul#	94
12) Acetophenone	7.42	105	550987	42.19	ng/ul#	78
13) N-Nitroso-di-n-propylamine	7.46	70	299267	44.99	ng/ul#	76
14) 4-Methylphenol	7.46	108	345323	36.78	ng/ul	94
15) Hexachloroethane	7.61	117	238299	42.80	ng/ul#	72
18) Nitrobenzene	7.73	77	469930	46.80	ng/ul#	84
19) Isophorone	8.21	82	900548	53.07	ng/ul#	97
21) 2-Nitrophenol	8.34	139	265504	41.62	ng/ul#	67
22) 2,4-Dimethylphenol	8.46	107	421381	46.36	ng/ul	85
23) Bis(2-Chloroethoxy)methane	8.64	93	451940	39.29	ng/ul#	98
25) 2,4-Dichlorophenol	8.81	162	464096	51.20	ng/ul	97
26) Naphthalene	9.12	128	1000553	37.61	ng/ul	97
28) 4-Chloroaniline	9.25	127	288646	27.00	ng/ul	93
29) Hexachlorobutadiene	9.40	225	339636	63.94	ng/ul	96
30) Caprolactam	9.94	113	110871m	43.13	ng/ul	
31) 4-Chloro-3-methylphenol	10.27	107	371776	48.32	ng/ul	96
32) 2-Methylnaphthalene	10.52	142	768730	44.57	ng/ul	91
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	608356	53.09	ng/ul	97
35) Hexachlorocyclopentadiene	10.87	237	418730	65.94	ng/ul	98

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:10:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

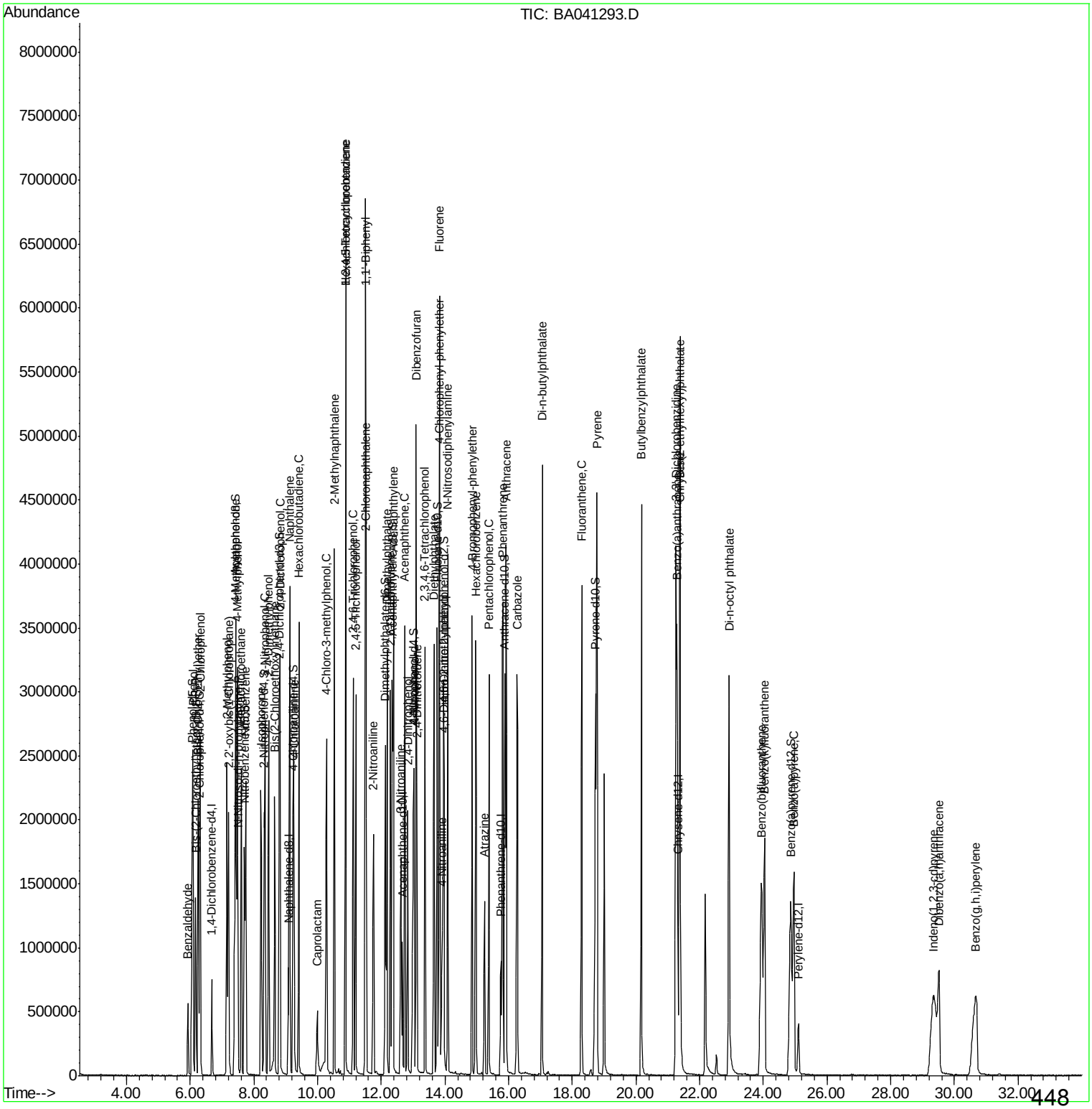
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	373033	49.25 ng/ul	93
37) 2,4,5-Trichlorophenol	11.18	196	377814	46.46 ng/ul	98
38) 1,1'-Biphenyl	11.50	154	1102031	42.81 ng/ul#	95
39) 2-Chloronaphthalene	11.51	162	973022	44.70 ng/ul	96
40) 2-Nitroaniline	11.74	65	303198	49.10 ng/ul#	69
42) Dimethylphthalate	12.17	163	1114648	44.52 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	290613	44.14 ng/ul#	88
45) Acenaphthylene	12.37	152	1259837	39.07 ng/ul	98
46) 3-Nitroaniline	12.60	138	227023	35.56 ng/ul	90
47) Acenaphthene	12.73	153	803518	41.29 ng/ul	92
48) 2,4-Dinitrophenol	12.82	184	239649	61.28 ng/ul#	88
50) 4-Nitrophenol	13.00	109	262115	68.22 ng/ul#	61
51) Dibenzofuran	13.10	168	1276098	44.59 ng/ul	96
52) 2,4-Dinitrotoluene	13.10	165	386544	46.83 ng/ul#	56
53) 2,3,4,6-Tetrachlorophenol	13.37	232	358398	55.28 ng/ul#	97
54) Diethylphthalate	13.64	149	1105938	44.22 ng/ul	99
56) Fluorene	13.80	166	986921	42.35 ng/ul	99
57) 4-Chlorophenyl-phenylether	13.83	204	529192	46.51 ng/ul	92
58) 4-Nitroaniline	13.89	138	153926	25.05 ng/ul#	54
61) 4,6-Dinitro-2-methylphenol	13.94	198	311490	42.35 ng/ul	100
62) N-Nitrosodiphenylamine	14.09	169	831190	35.08 ng/ul	95
63) 4-Bromophenyl-phenylether	14.84	248	355271	41.40 ng/ul	95
64) Hexachlorobenzene	14.96	284	409380	40.86 ng/ul	95
65) Atrazine	15.23	200	152125	20.68 ng/ul	93
66) Pentachlorophenol	15.37	266	323512	54.65 ng/ul	97
67) Phenanthrene	15.80	178	1478723	34.48 ng/ul	99
69) Anthracene	15.91	178	1453674	34.88 ng/ul	97
70) Carbazole	16.26	167	1358063	36.78 ng/ul	97
71) Di-n-butylphthalate	17.05	149	1907917	34.27 ng/ul#	97
72) Fluoranthene	18.29	202	1712421	38.48 ng/ul#	88
75) Pyrene	18.76	202	1901140	34.87 ng/ul#	88
76) Butylbenzylphthalate	20.16	149	928738	32.60 ng/ul	99
77) 3,3'-Dichlorobenzidine	21.24	252	624073	39.51 ng/ul	95
78) Benzo(a)anthracene	21.27	228	1839396	34.82 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.39	149	907668	28.14 ng/ul	100
80) Chrysene	21.35	228	1480546	31.84 ng/ul	96
82) Di-n-octyl phthalate	22.90	149	1691252	34.30 ng/ul	100
83) Benzo(b)fluoranthene	23.92	252	1809764	44.61 ng/ul#	90
84) Benzo(k)fluoranthene	24.00	252	1421675	35.73 ng/ul#	96
86) Benzo(a)pyrene	24.92	252	1503386	40.28 ng/ul#	96
87) Indeno(1,2,3-cd)pyrene	29.32	276	1493833	46.47 ng/ul#	65
88) Dibenzo(a,h)anthracene	29.44	278	1028043	33.33 ng/ul#	92
89) Benzo(g,h,i)perylene	30.62	276	1488326	42.90 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

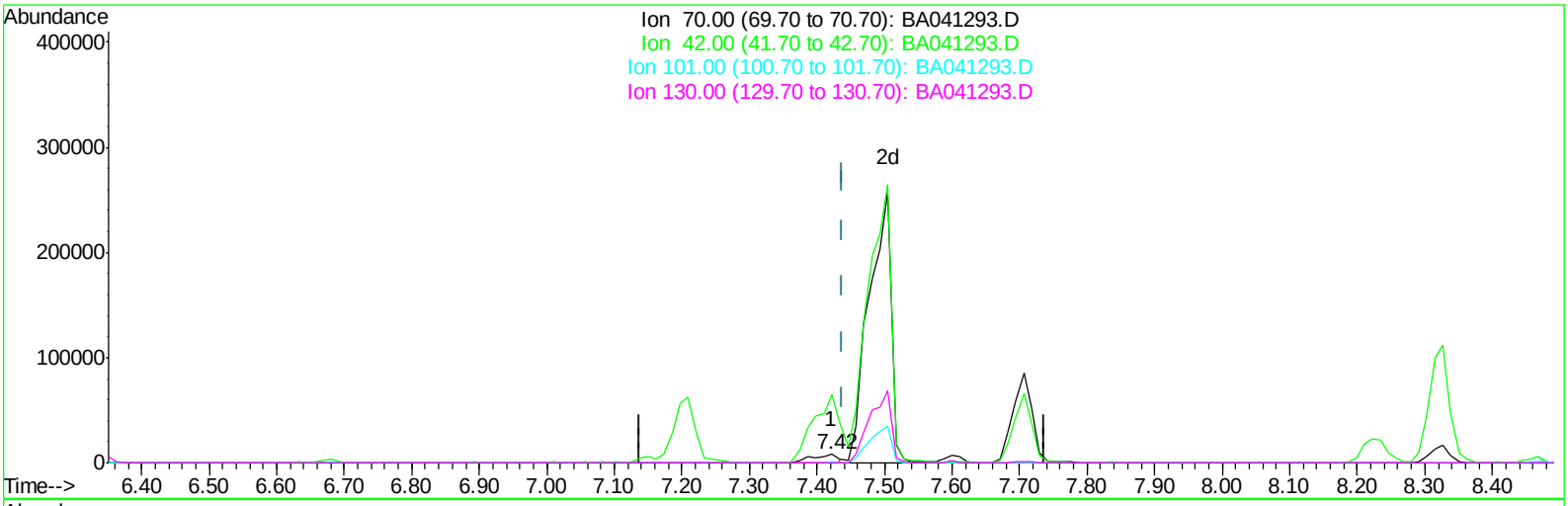
Quant Time: Oct 20 11:12:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

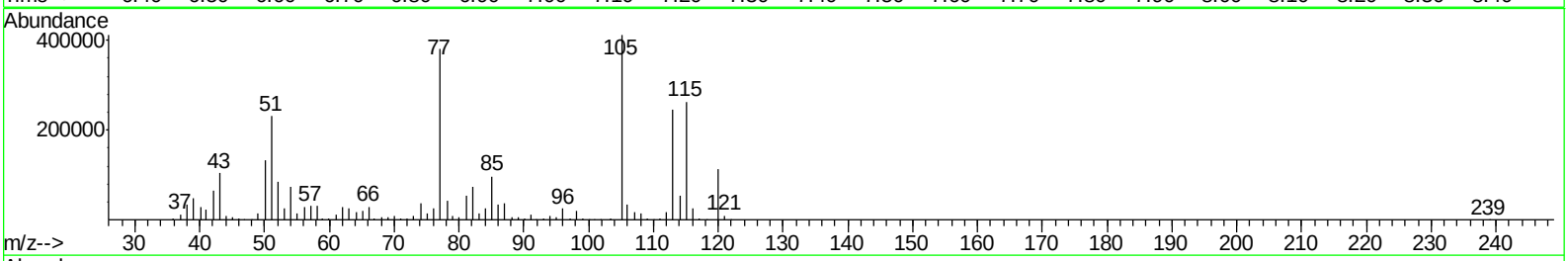


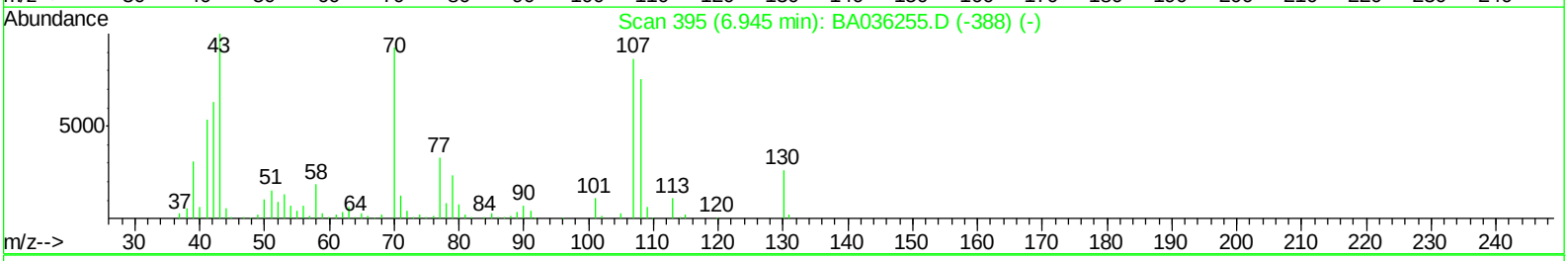
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(13) N-Nitroso-di-n-propylamine (P)

7.422min (-0.016) 3.04ng/ul

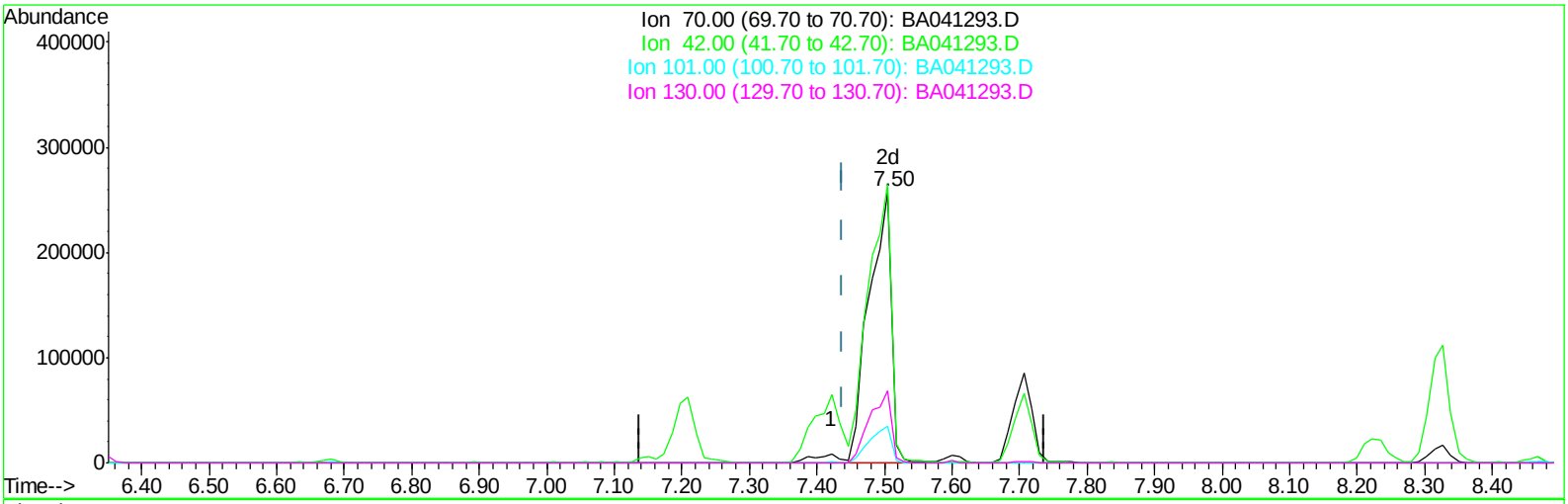
response 21538

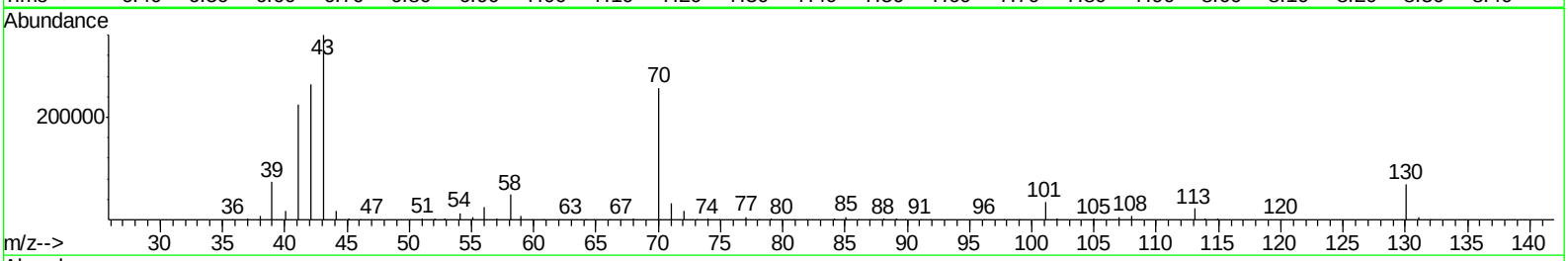
Ion	Exp%	Act%
70.00	100	100
42.00	68.40	816.69#
101.00	11.70	9.28#
130.00	28.50	0.00#

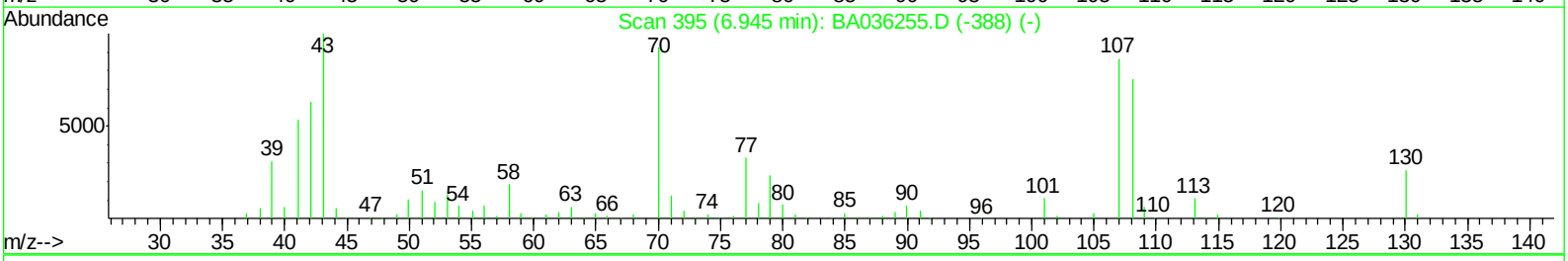
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(13) N-Nitroso-di-n-propylamine (P)

7.505min (+0.067) 82.76ng/ul m

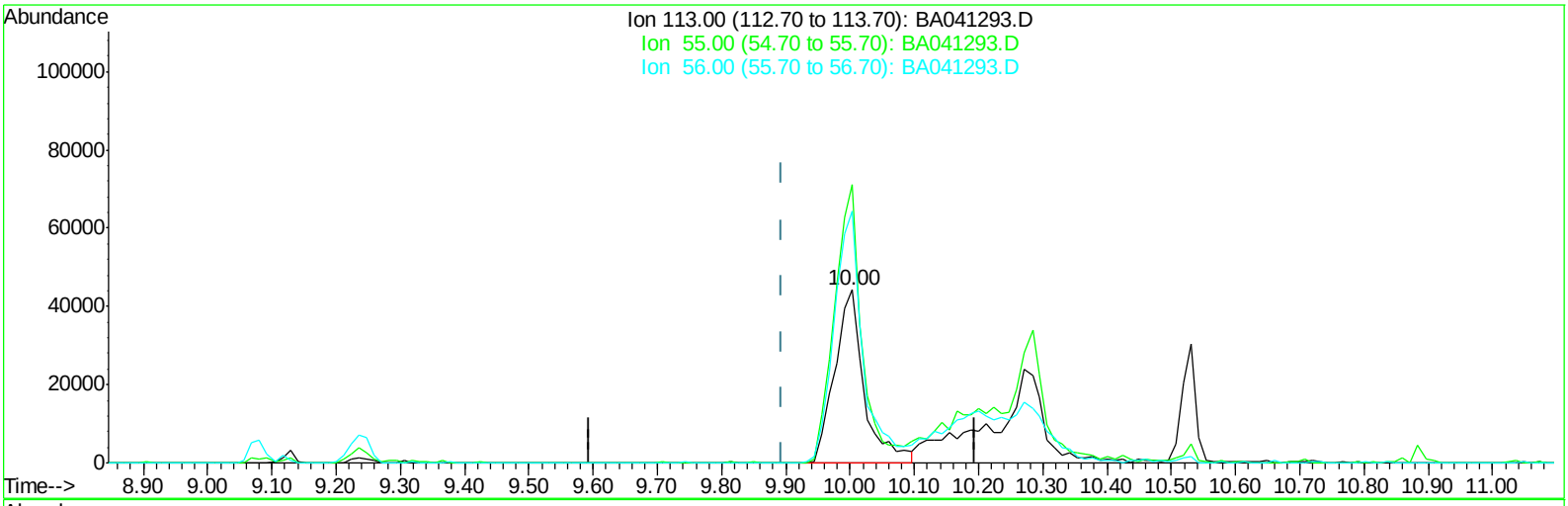
response 586990

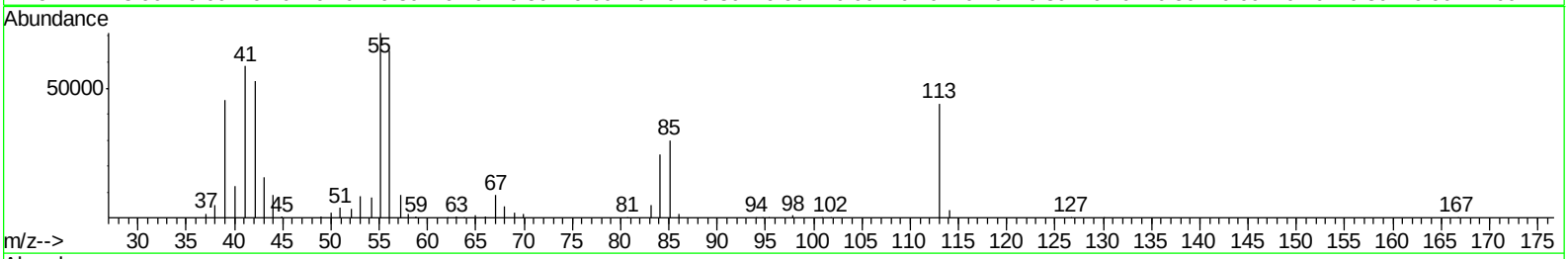
Ion	Exp%	Act%
70.00	100	100
42.00	68.40	102.76#
101.00	11.70	13.50
130.00	28.50	26.53

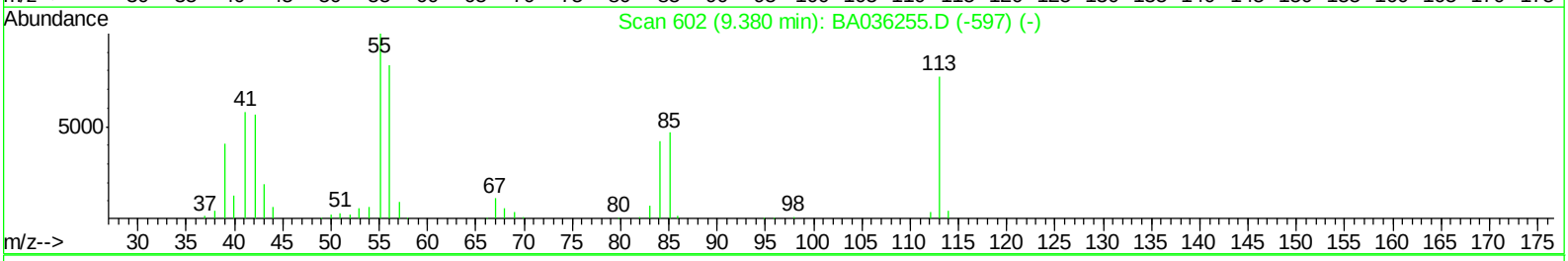
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(30) Caprolactam

10.002min (+0.107) 54.32ng/ul

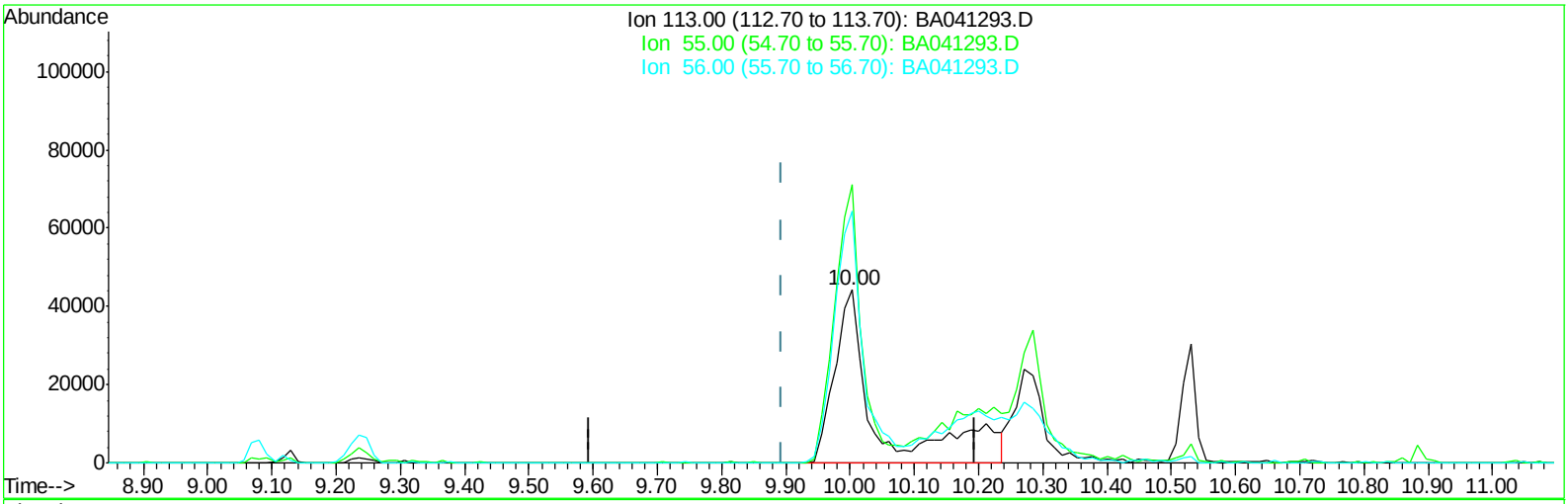
response 140635

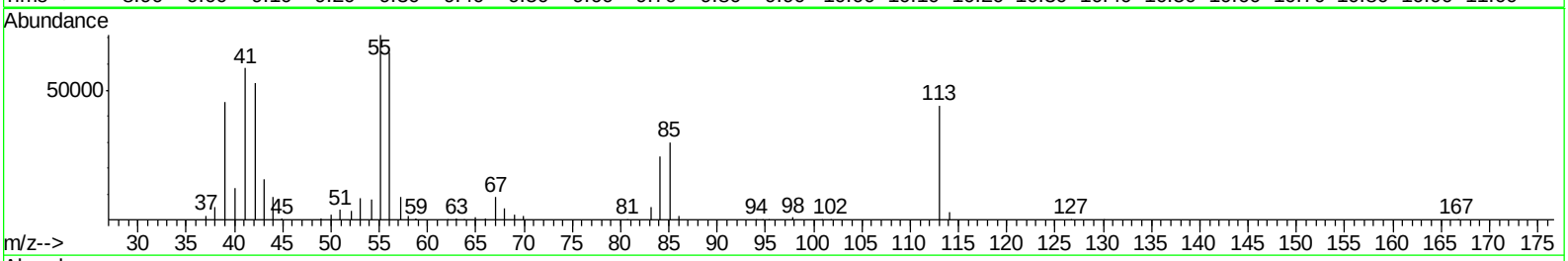
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	161.03#
56.00	107.70	146.02#
0.00	0.00	0.00

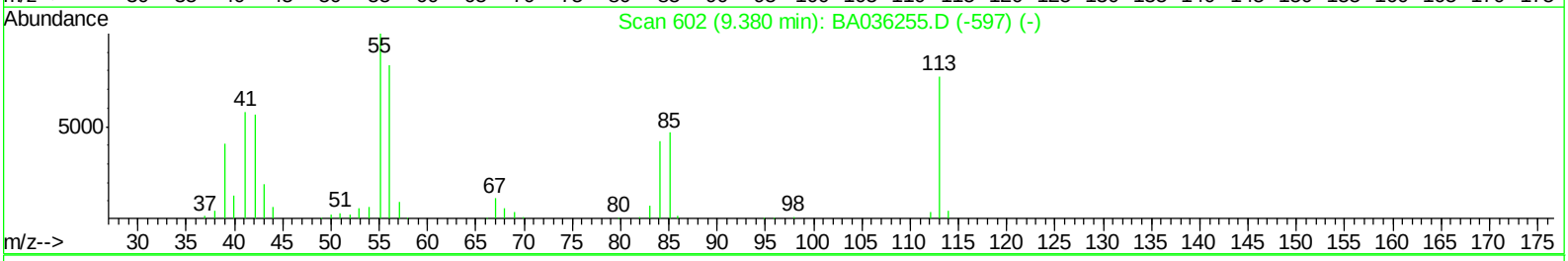
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(30) Caprolactam

10.002min (+0.107) 77.59ng/ul m

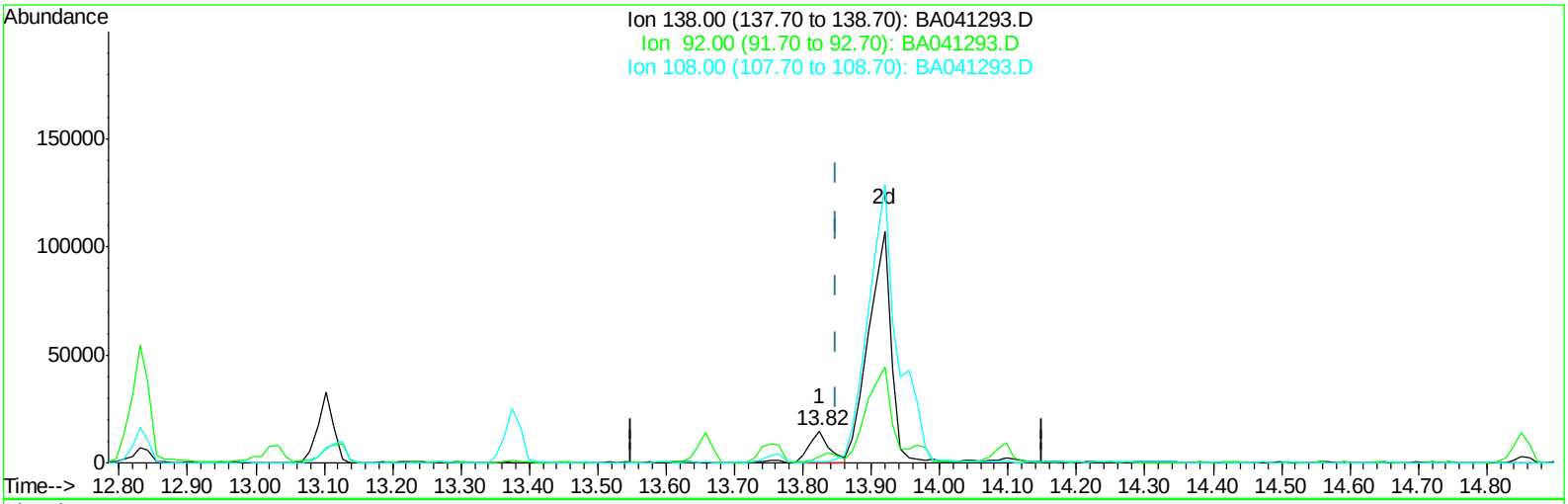
response 200900

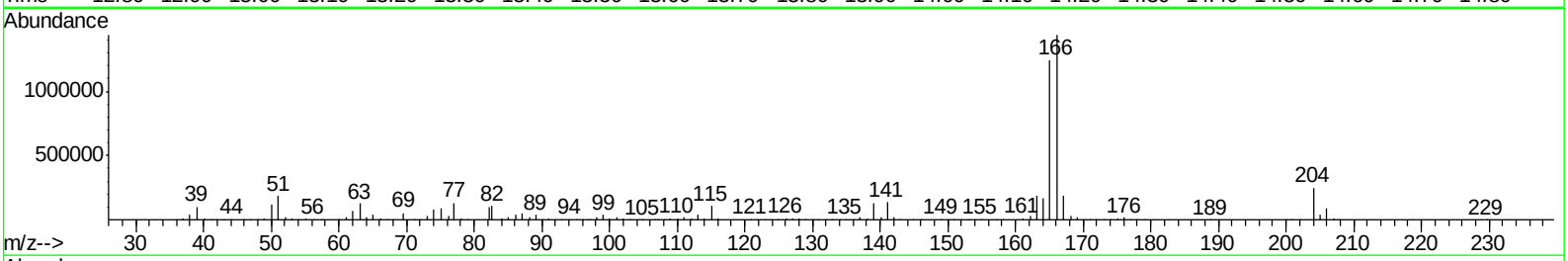
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	161.03#
56.00	107.70	146.02#
0.00	0.00	0.00

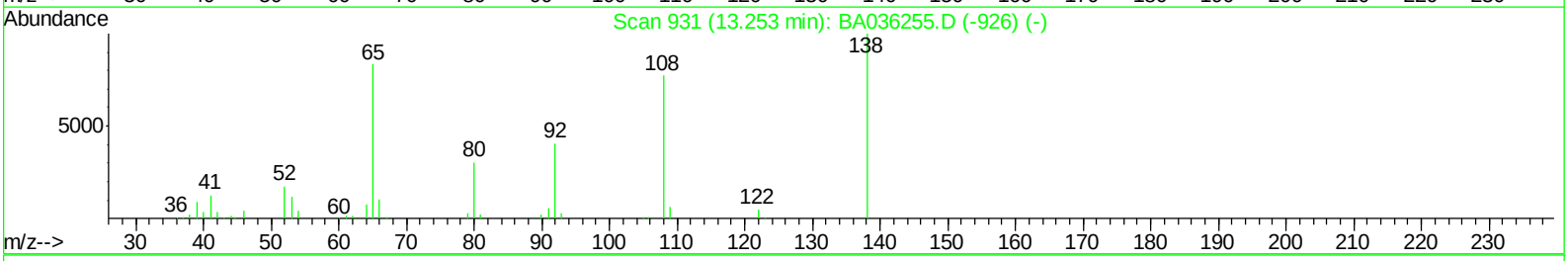
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(58) 4-Nitroaniline

13.824min (-0.026) 4.68ng/ul

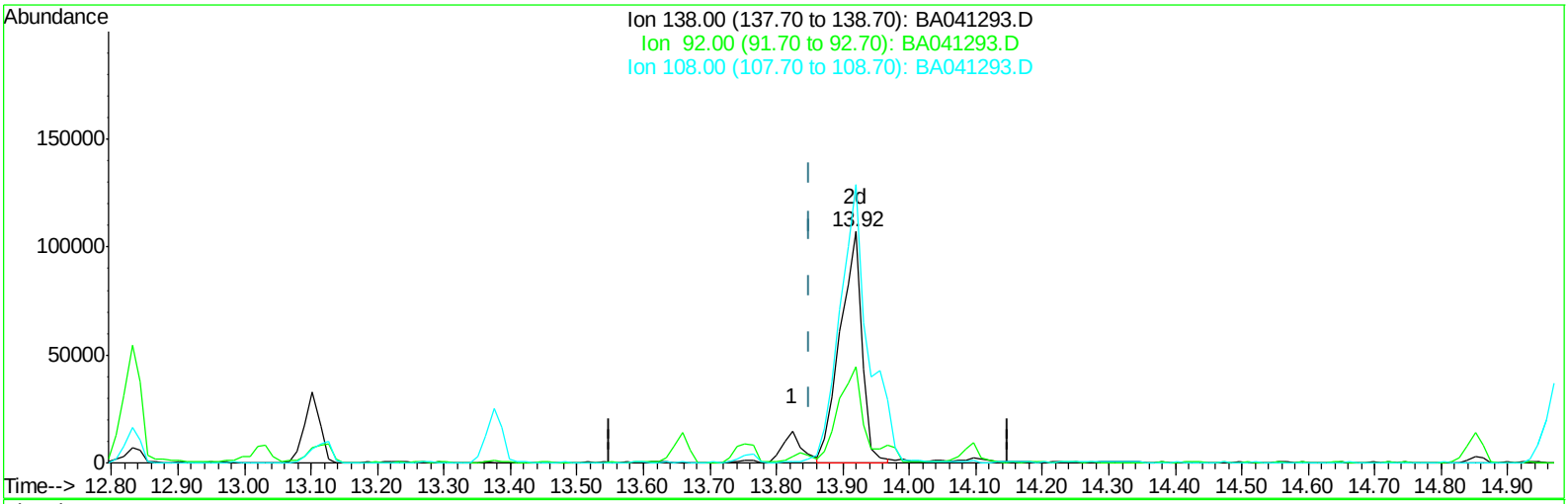
response 30133

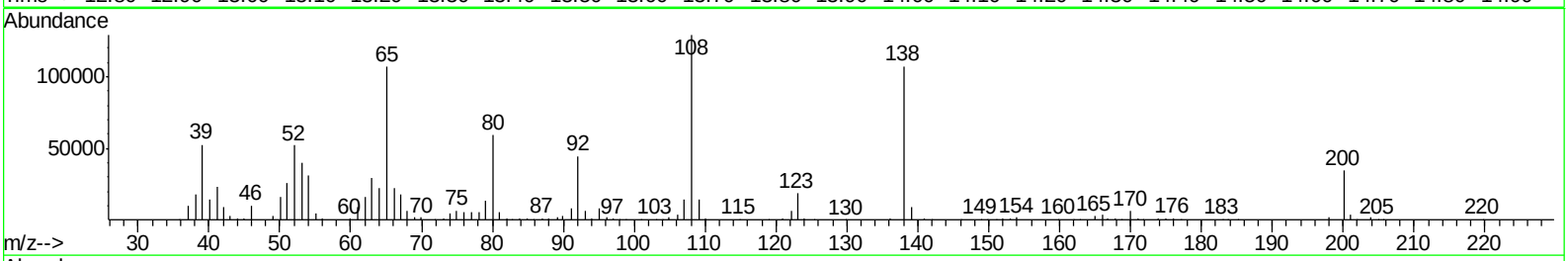
Ion	Exp%	Act%
138.00	100	100
92.00	41.80	18.84#
108.00	77.20	5.81#
0.00	0.00	0.00

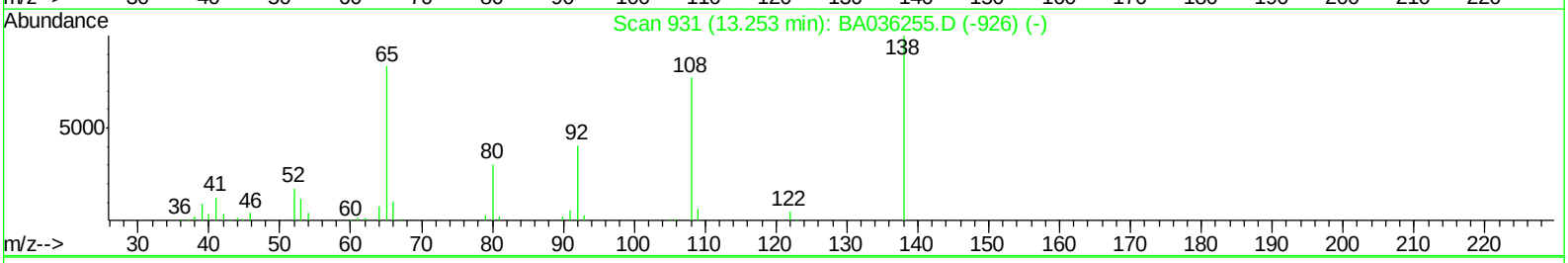
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(58) 4-Nitroaniline

13.919min (+0.069) 38.37ng/ul m

response 246856

Ion	Exp%	Act%
138.00	100	100
92.00	41.80	41.43
108.00	77.20	120.27#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:12:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	181774	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	546257	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.67	164	387173	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.76	188	699390	20.00	ng/ul	0.02
73) Chrysene-d12	21.31	240	772720	20.00	ng/ul	0.00
81) Perylene-d12	25.11	264	508602	20.00	ng/ul	-0.06
System Monitoring Compounds						
3) Phenol-d5	6.07	99	955889	68.72	ng/ul	0.02
5) Bis-(2-Chloroethyl)ether-d	6.17	67	628188	81.51	ng/ul	0.03
7) 2-Chlorophenol-d4	6.29	132	775593	67.37	ng/ul	0.00
11) 4-Methylphenol-d8	7.42	113	640767	68.02	ng/ul	0.04
17) Nitrobenzene-d5	7.71	128	409908	75.37	ng/ul	0.03
20) 2-Nitrophenol-d4	8.33	143	479344	76.89	ng/ul	0.02
24) 2,4-Dichlorophenol-d3	8.80	165	936567	103.76	ng/ul	0.02
27) 4-Chloroaniline-d4	9.23	131	972498	83.90	ng/ul	0.02
41) Dimethylphthalate-d6	12.13	166	2104696	83.43	ng/ul	0.04
44) Acenaphthylene-d8	12.35	160	2641227	77.31	ng/ul	0.03
49) 4-Nitrophenol-d4	13.02	143	441268	71.30	ng/ul	0.07
55) Fluorene-d10	13.75	176	1739262	83.61	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.95	200	595243	79.24	ng/ul	0.05
68) Anthracene-d10	15.88	188	2576185	73.68	ng/ul	0.03
74) Pyrene-d10	18.73	212	2917881	71.41	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.86	264	2895395	102.07	ng/ul	-0.04
Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	160380	21.04	ng/ul	87
4) Phenol	6.09	94	1025846	70.70	ng/ul#	48
6) Bis(2-Chloroethyl)ether	6.24	93	837810	75.87	ng/ul	93
8) 2-Chlorophenol	6.32	128	886628	75.84	ng/ul#	81
9) 2-Methylphenol	7.15	108	719954	74.60	ng/ul	96
10) 2,2'-oxybis(1-Chloropropan	7.21	45	1176533	76.33	ng/ul	97
12) Acetophenone	7.43	105	1199546	86.13	ng/ul#	85
13) N-Nitroso-di-n-propylamine	7.50	70	586990m	82.76	ng/ul	
14) 4-Methylphenol	7.48	108	764718	76.38	ng/ul	99
15) Hexachloroethane	7.60	117	458905	77.30	ng/ul	93
18) Nitrobenzene	7.74	77	913610	90.34	ng/ul#	89
19) Isophorone	8.22	82	1811798	106.01	ng/ul#	97
21) 2-Nitrophenol	8.35	139	546898	85.12	ng/ul#	66
22) 2,4-Dimethylphenol	8.47	107	905073	98.86	ng/ul	88
23) Bis(2-Chloroethoxy)methane	8.66	93	1000558	86.37	ng/ul	98
25) 2,4-Dichlorophenol	8.82	162	931990	102.09	ng/ul	95
26) Naphthalene	9.13	128	2217646	82.76	ng/ul	98
28) 4-Chloroaniline	9.26	127	611260	56.76	ng/ul	98
29) Hexachlorobutadiene	9.41	225	665542	124.40	ng/ul	96
30) Caprolactam	10.00	113	200900m	77.59	ng/ul	
31) 4-Chloro-3-methylphenol	10.28	107	854613	110.30	ng/ul	88
32) 2-Methylnaphthalene	10.53	142	1712841	98.59	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	1194591	99.58	ng/ul	97
35) Hexachlorocyclopentadiene	10.88	237	871745	131.13	ng/ul	96

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:12:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	746703	94.17 ng/ul	99
37) 2,4,5-Trichlorophenol	11.20	196	769438	90.38 ng/ul	84
38) 1,1'-Biphenyl	11.51	154	2361388	87.63 ng/ul#	96
39) 2-Chloronaphthalene	11.52	162	1951368	85.64 ng/ul	98
40) 2-Nitroaniline	11.76	65	591272	91.47 ng/ul#	68
42) Dimethylphthalate	12.18	163	2201258	83.98 ng/ul	99
43) 2,6-Dinitrotoluene	12.29	165	594483	86.25 ng/ul#	79
45) Acenaphthylene	12.38	152	2598091	76.95 ng/ul	95
46) 3-Nitroaniline	12.62	138	466167	69.74 ng/ul#	88
47) Acenaphthene	12.74	153	1643956	80.70 ng/ul	93
48) 2,4-Dinitrophenol	12.83	184	507923	124.06 ng/ul#	87
50) 4-Nitrophenol	13.03	109	510852	127.00 ng/ul#	70
51) Dibenzofuran	13.10	168	2546333	85.00 ng/ul	98
52) 2,4-Dinitrotoluene	13.13	165	747975	86.57 ng/ul#	84
53) 2,3,4,6-Tetrachlorophenol	13.37	232	733707	108.10 ng/ul#	87
54) Diethylphthalate	13.66	149	2153825	82.27 ng/ul	99
56) Fluorene	13.82	166	2218887	90.95 ng/ul	97
57) 4-Chlorophenyl-phenylether	13.84	204	1094555	91.89 ng/ul	96
58) 4-Nitroaniline	13.92	138	246856m	38.37 ng/ul	
61) 4,6-Dinitro-2-methylphenol	13.98	198	616257	84.54 ng/ul#	88
62) N-Nitrosodiphenylamine	14.10	169	1699289	72.35 ng/ul	96
63) 4-Bromophenyl-phenylether	14.85	248	721931	84.86 ng/ul	96
64) Hexachlorobenzene	14.97	284	833644	83.94 ng/ul	93
65) Atrazine	15.24	200	304443	41.75 ng/ul	96
66) Pentachlorophenol	15.38	266	651372	111.02 ng/ul	97
67) Phenanthrene	15.82	178	3008945	70.79 ng/ul	97
69) Anthracene	15.93	178	2920902	70.71 ng/ul	97
70) Carbazole	16.27	167	2815202	76.92 ng/ul	97
71) Di-n-butylphthalate	17.06	149	3858684	69.93 ng/ul#	96
72) Fluoranthene	18.30	202	3602243	81.67 ng/ul#	93
75) Pyrene	18.78	202	3722083	71.89 ng/ul#	91
76) Butylbenzylphthalate	20.17	149	1860972	68.79 ng/ul#	95
77) 3,3'-Dichlorobenzidine	21.25	252	1161321	77.41 ng/ul	88
78) Benzo(a)anthracene	21.29	228	3700799	73.78 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.39	149	2010034	65.63 ng/ul#	97
80) Chrysene	21.37	228	2724495	61.69 ng/ul	99
82) Di-n-octyl phthalate	22.93	149	3686742	89.18 ng/ul	100
83) Benzo(b)fluoranthene	23.94	252	3507664	103.13 ng/ul#	92
84) Benzo(k)fluoranthene	24.04	252	2345473	70.31 ng/ul#	96
86) Benzo(a)pyrene	24.97	252	2617307	83.64 ng/ul#	96
87) Indeno(1,2,3-cd)pyrene	29.33	276	2859619	106.11 ng/ul#	67
88) Dibenzo(a,h)anthracene	29.52	278	1892347	73.17 ng/ul#	90
89) Benzo(g,h,i)perylene	30.65	276	2643252	90.88 ng/ul#	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 14:01

Lab File ID: BA041289.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) ICC0020BA004 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.625	0.010	15.8	40.0
Phenol	1.314	1.304	0.800	-0.7	25.0
Bis(2-Chloroethyl)ether	1.052	1.014	0.700	-3.6	25.0
2-Chlorophenol	1.164	1.162	0.800	-0.2	25.0
2-Methylphenol	0.911	0.882	0.700	-3.2	25.0
2,2-oxybis(1-Chloropropane)	1.559	1.561	0.010	0.1	40.0
Acetophenone	1.607	1.660	0.010	3.3	40.0
4-Methylphenol	0.954	0.867	0.600	-9.1	25.0
N-Nitroso-di-n-propylamine	0.819	0.801	0.500	-2.2	25.0
Hexachloroethane	0.642	0.641	0.300	-0.1	25.0
Nitrobenzene	0.416	0.406	0.200	-2.5	25.0
Isophorone	0.802	0.832	0.400	3.7	25.0
2-Nitrophenol	0.234	0.226	0.100	-3.4	25.0
2,4-Dimethylphenol	0.386	0.380	0.200	-1.7	25.0
Bis(2-Chloroethoxy)methane	0.395	0.384	0.300	-2.9	25.0
2,4-Dichlorophenol	0.409	0.401	0.200	-1.9	25.0
Naphthalene	0.905	0.874	0.700	-3.4	25.0
4-Chloroaniline	0.264	0.269	0.010	2.0	40.0
Hexachlorobutadiene	0.309	0.310	0.010	0.4	40.0
Caprolactam	0.099	0.107	0.010	8.5	40.0
4-Chloro-3-methylphenol	0.353	0.331	0.200	-6.1	25.0
2-Methylnaphthalene	0.709	0.679	0.400	-4.2	25.0
Hexachlorocyclopentadiene	0.519	0.522	0.010	0.6	40.0
2,4,6-Trichlorophenol	0.451	0.420	0.200	-6.8	25.0
2,4,5-Trichlorophenol	0.466	0.443	0.200	-5.0	25.0
1,1-Biphenyl	1.407	1.310	0.010	-6.9	40.0
2-Chloronaphthalene	1.211	1.146	0.800	-5.4	25.0
2-Nitroaniline	0.376	0.357	0.010	-5.0	40.0
Dimethylphthalate	1.452	1.429	0.010	-1.6	40.0
2,6-Dinitrotoluene	0.367	0.359	0.200	-2.0	25.0
Acenaphthylene	1.591	1.512	0.900	-5.0	25.0
3-Nitroaniline	0.289	0.275	0.010	-4.8	40.0
Acenaphthene	1.048	1.020	0.900	-2.7	25.0
2,4-Dinitrophenol	0.301	0.279	0.010	-7.3	40.0
4-Nitrophenol	0.326	0.302	0.010	-7.3	40.0
Dibenzofuran	1.562	1.491	0.800	-4.5	25.0
2,4-Dinitrotoluene	0.480	0.448	0.200	-6.8	25.0
Diethylphthalate	1.411	1.385	0.010	-1.8	40.0
Fluorene	1.290	1.214	0.900	-5.9	25.0
4-Chlorophenyl-phenylether	0.686	0.669	0.400	-2.5	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 14:01

Lab File ID: BA041289.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) ICC0020BA004 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.245	0.010	8.9	40.0
4,6-Dinitro-2-methylphenol	0.213	0.203	0.010	-4.8	40.0
N-Nitrosodiphenylamine[1]	0.571	0.572	0.010	0.2	40.0
1,2,4,5-Tetrachlorobenzene	0.748	0.761	0.010	1.8	40.0
4-Bromophenyl-phenylether	0.246	0.241	0.100	-2.1	25.0
Hexachlorobenzene	0.287	0.280	0.100	-2.3	25.0
Atrazine	0.101	0.098	0.010	-3.1	40.0
Pentachlorophenol	0.219	0.213	0.050	-2.6	25.0
Phenanthrene	1.020	1.002	0.700	-1.8	25.0
Anthracene	1.027	0.987	0.700	-3.9	25.0
Carbazole	0.929	0.889	0.010	-4.3	40.0
Di-n-butylphthalate	1.330	1.281	0.010	-3.7	40.0
Fluoranthene	1.211	1.180	0.600	-2.6	25.0
Pyrene	1.110	1.038	0.600	-6.5	25.0
Butylbenzylphthalate	0.538	0.537	0.010	-0.1	40.0
3,3-Dichlorobenzidine	0.323	0.346	0.010	7.0	40.0
Benzo(a)anthracene	1.061	0.993	0.800	-6.4	25.0
Chrysene	0.901	0.880	0.700	-2.4	25.0
Bis(2-ethylhexyl)phthalate	0.563	0.506	0.010	-10.2	40.0
Di-n-octyl phthalate	1.273	1.263	0.010	-0.8	40.0
Benzo(b)fluoranthene	1.306	1.255	0.700	-3.9	25.0
Benzo(k)fluoranthene	1.111	1.084	0.700	-2.4	25.0
Benzo(a)pyrene	1.126	1.134	0.700	0.8	25.0
Indeno(1,2,3-cd)pyrene	1.055	1.033	0.500	-2.1	25.0
Dibenzo(a,h)anthracene	0.810	0.835	0.400	3.0	25.0
Benzo(g,h,i)perylene	1.068	1.062	0.500	-0.6	25.0
2,3,4,6-Tetrachlorophenol	0.441	0.435	0.100	-1.4	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 14:01

Lab File ID: BA041289.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) ICC0020BA004 Init. Calib. Time(s): 14:01 17:16

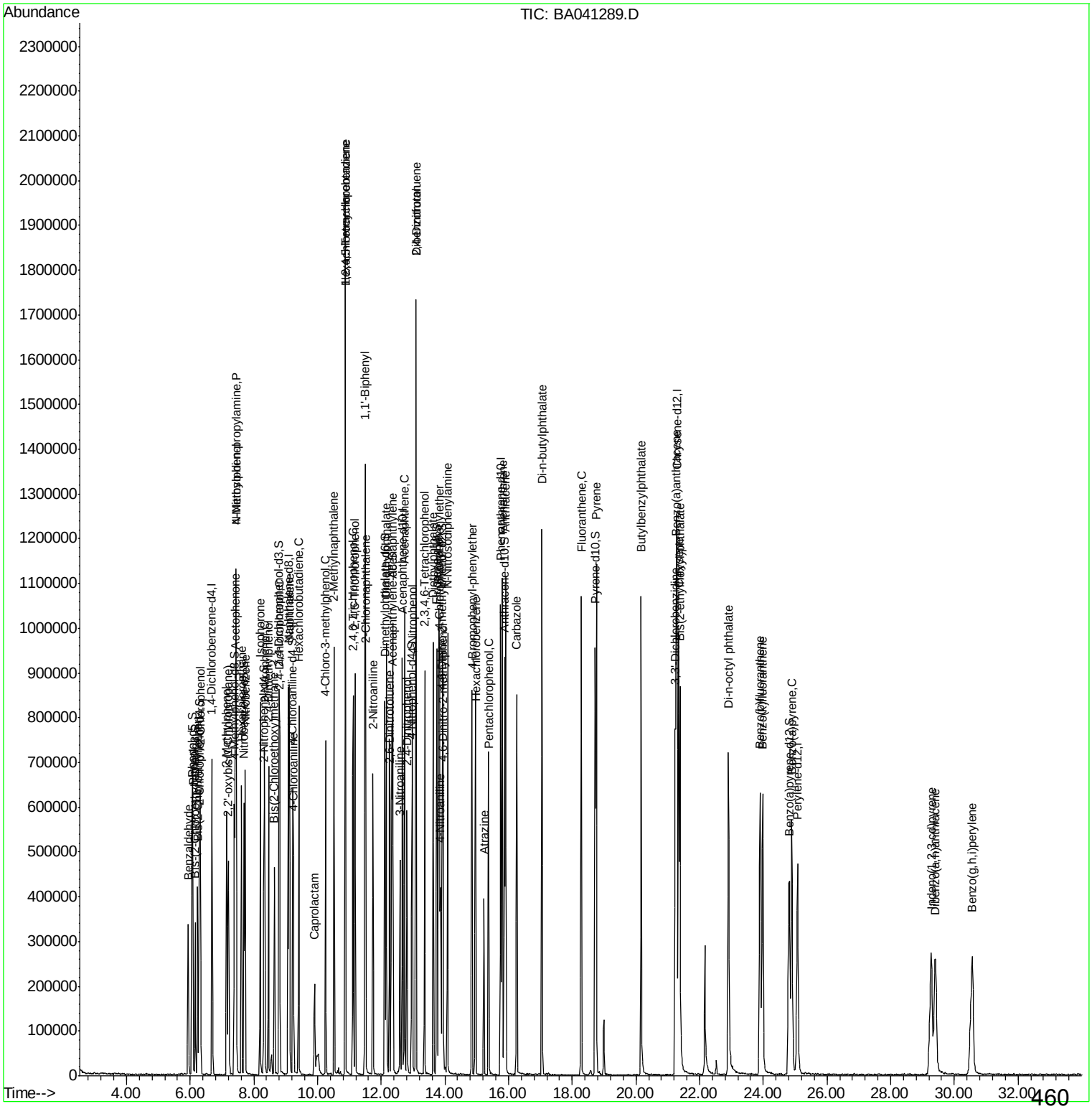
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.125	0.010	-7.1	25.0
Bis(2-Chloroethyl)ether-d8	0.821	0.801	0.010	-2.4	25.0
2-Chlorophenol-d4	1.029	1.052	0.010	2.3	25.0
4-Methylphenol-d8	0.822	0.820	0.010	-0.3	25.0
Nitrobenzene-d5	0.177	0.175	0.010	-1.0	25.0
2-Nitrophenol-d4	0.218	0.208	0.010	-4.4	25.0
2,4-Dichlorophenol-d3	0.403	0.392	0.010	-2.8	25.0
4-Chloroaniline-d4	0.399	0.383	0.010	-4.1	40.0
Dimethylphthalate-d6	1.332	1.313	0.010	-1.4	40.0
Acenaphthylene-d8	1.619	1.592	0.010	-1.7	25.0
4-Nitrophenol-d4	0.271	0.266	0.010	-1.8	40.0
Fluorene-d10	1.071	1.028	0.010	-4.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.196	0.010	-5.3	40.0
Anthracene-d10	0.957	0.948	0.010	-1.0	25.0
Pyrene-d10	0.874	0.844	0.010	-3.5	25.0
Benzo(a)pyrene-d12	1.089	1.016	0.010	-6.7	25.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

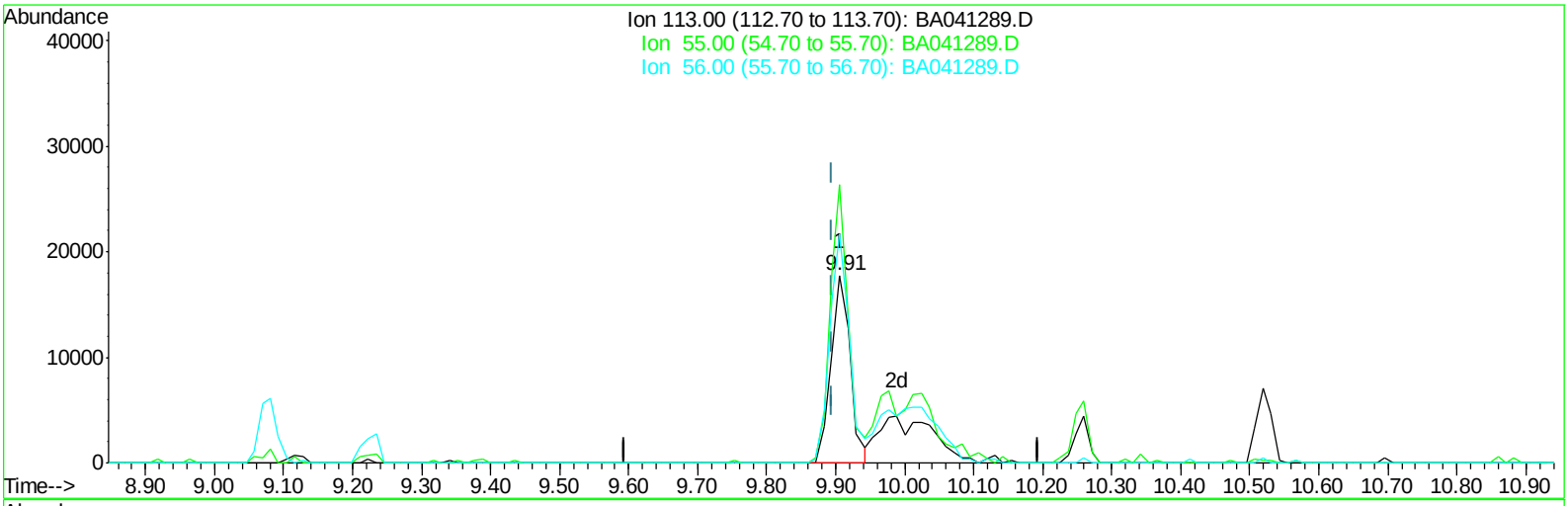
Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

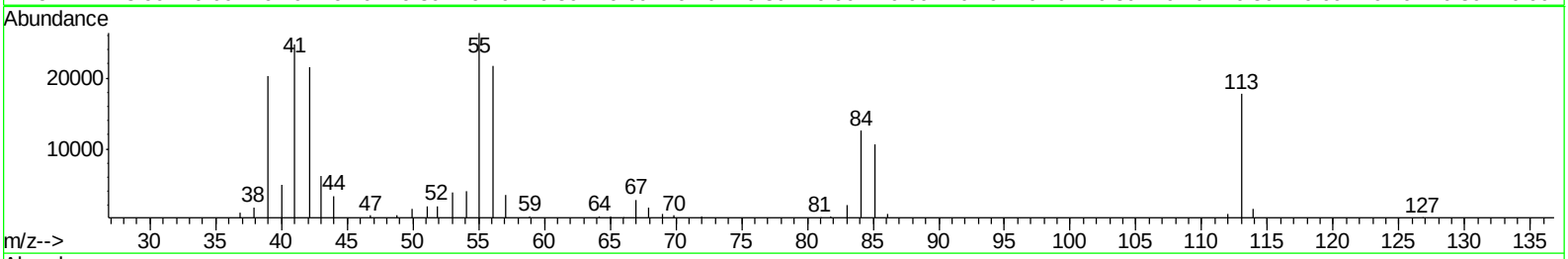


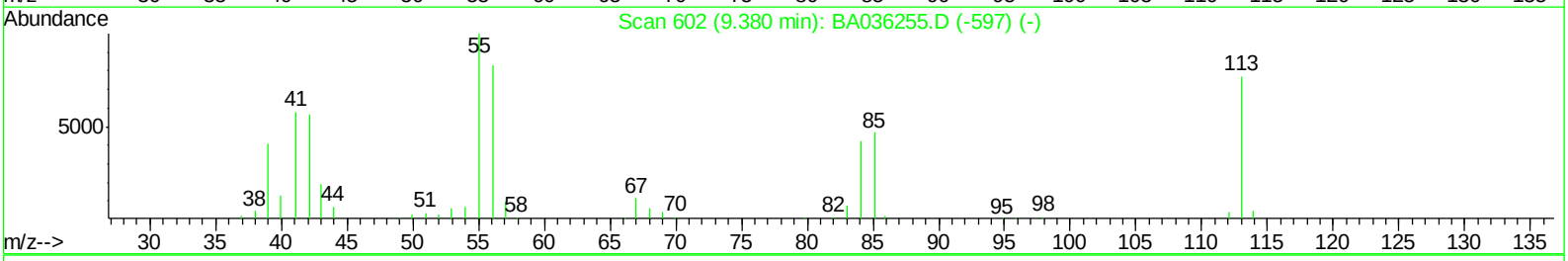
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 13.31ng/ul

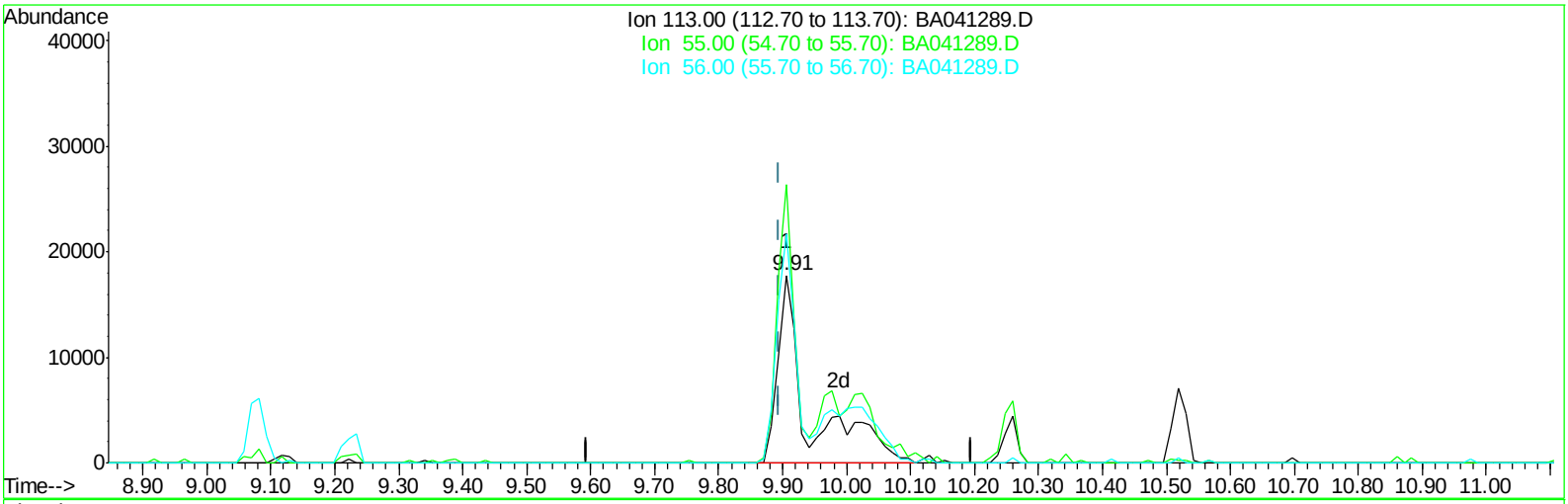
response 34423

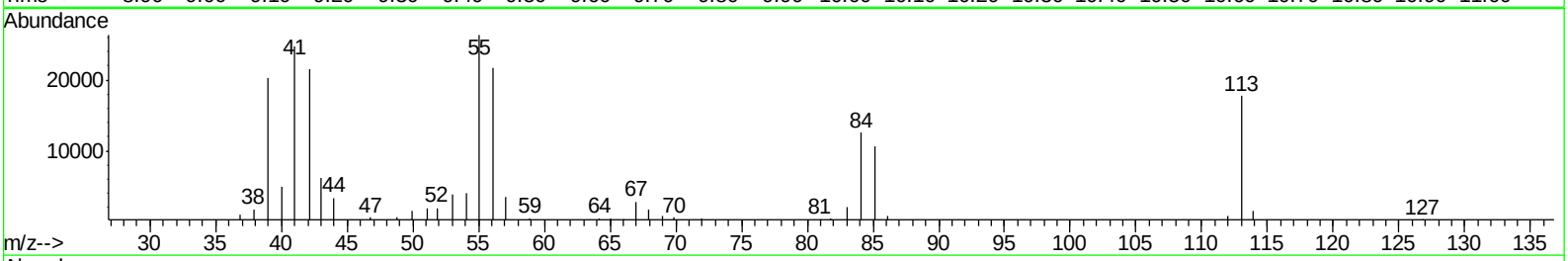
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

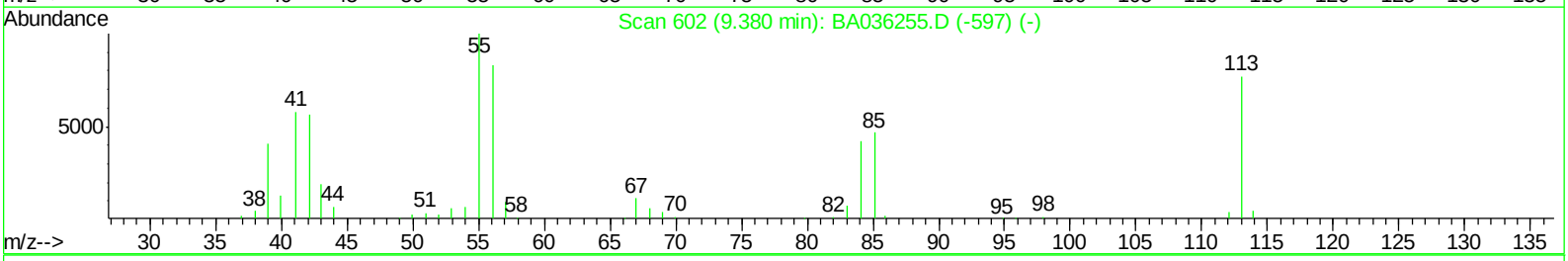
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 22.67ng/ul m

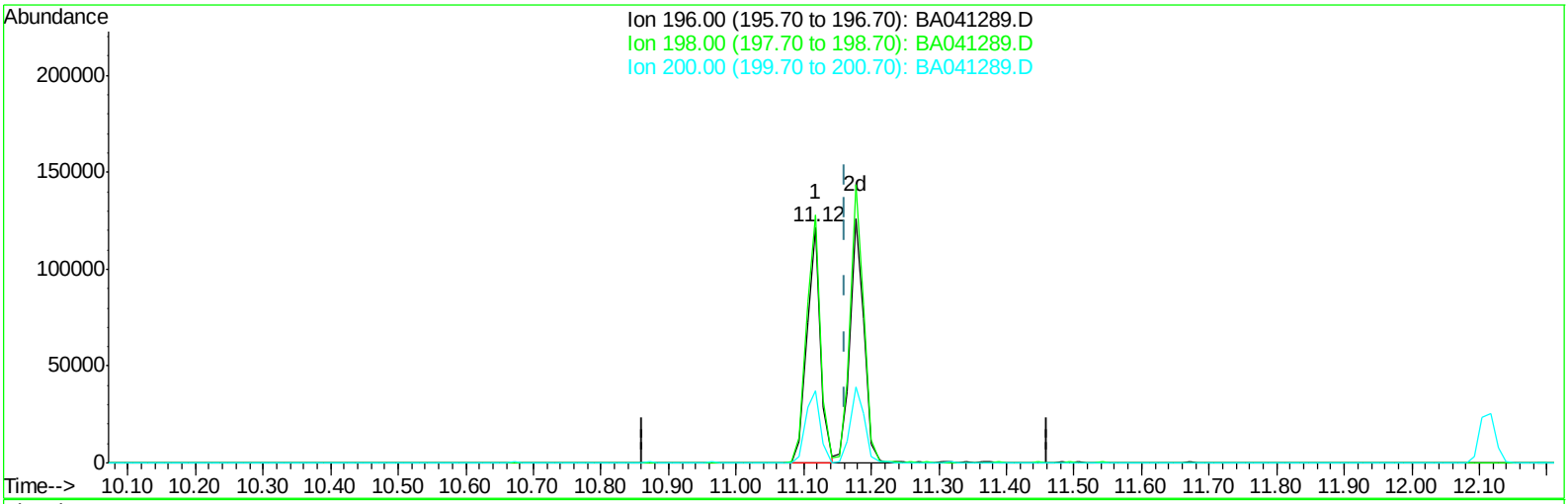
response 58639

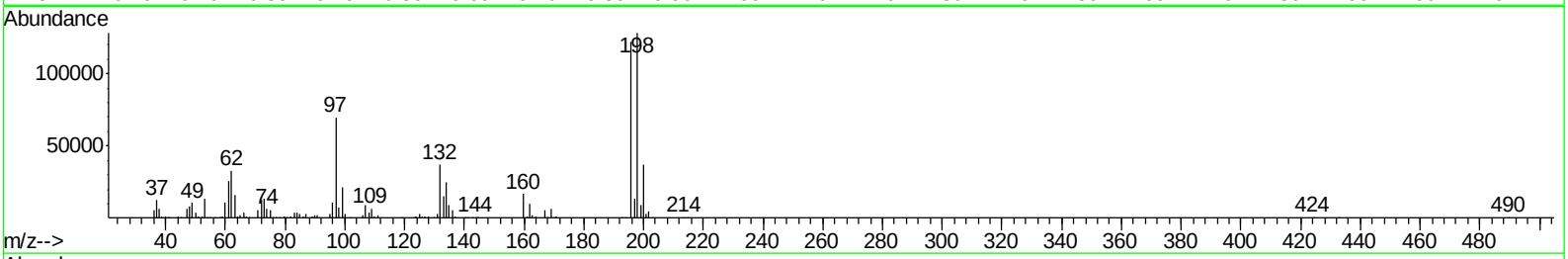
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

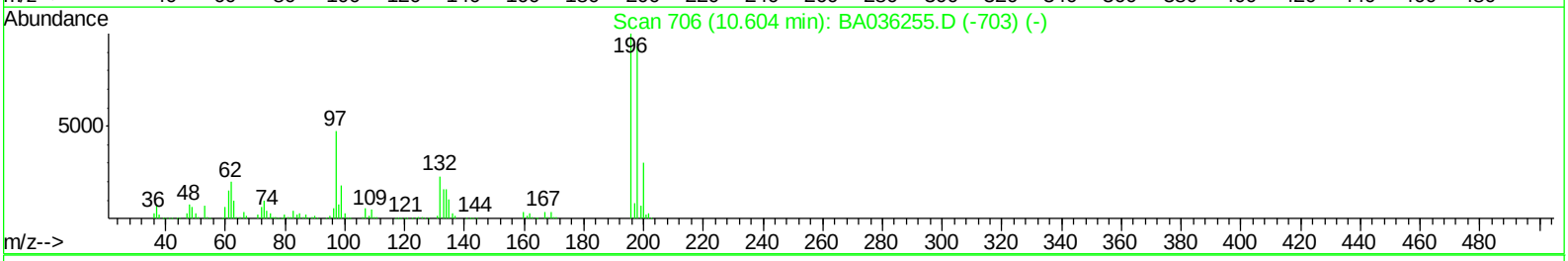
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.118min (-0.044) 19.11ng/ul

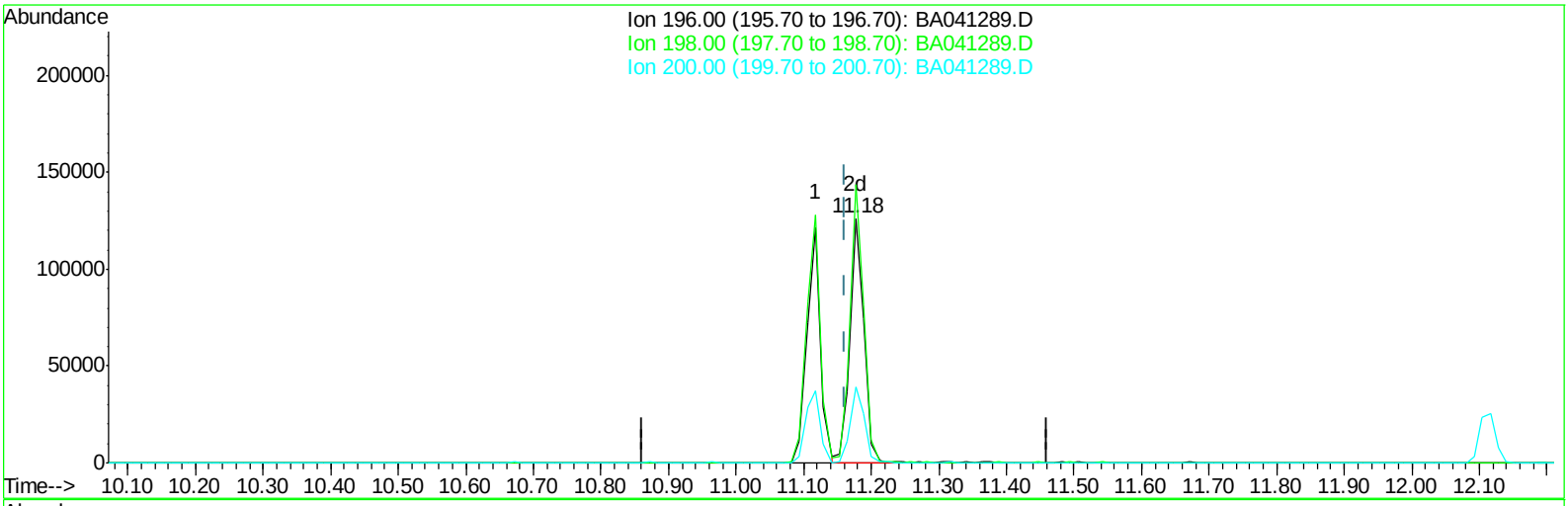
response 168238

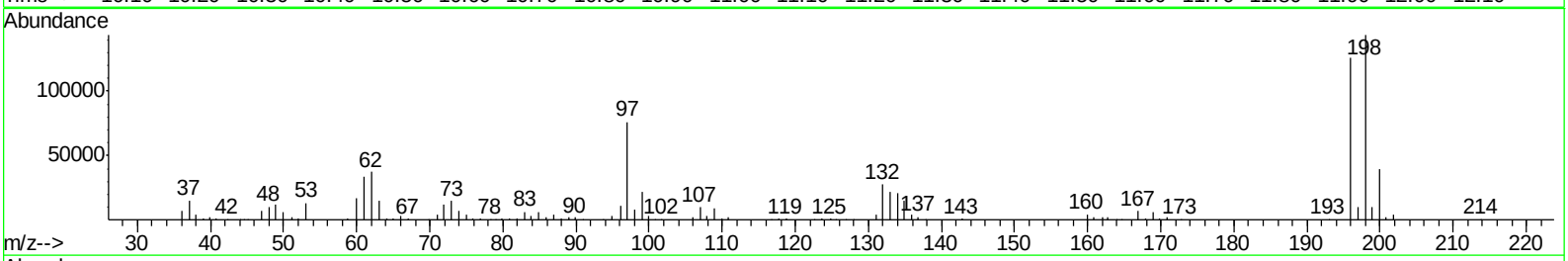
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	105.29
200.00	29.80	30.71
0.00	0.00	0.00

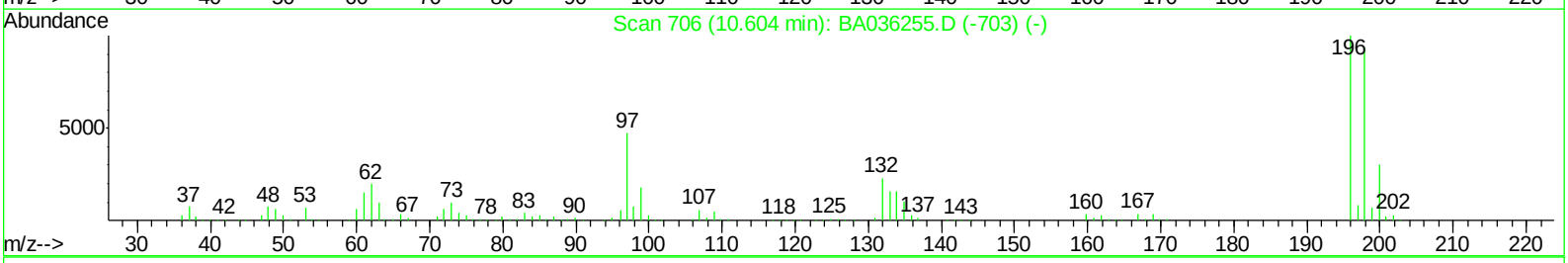
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.177min (+0.015) 20.14ng/ul m

response 177236

Ion	Exp%	Act%
196.00	100	100
198.00	93.20	113.87#
200.00	29.80	31.05
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	165870	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	545763	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.67	164	400296	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.76	188	734942	20.00	ng/ul	0.02
73) Chrysene-d12	21.29	240	863637	20.00	ng/ul	-0.02
81) Perylene-d12	25.07	264	688065	20.00	ng/ul	-0.09
System Monitoring Compounds						
3) Phenol-d5	6.06	99	186621	14.70	ng/ul	0.02
5) Bis-(2-Chloroethyl)ether-d	6.15	67	132940	18.90	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	174573	16.62	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	136003	15.82	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	95677	17.61	ng/ul	0.01
20) 2-Nitrophenol-d4	8.32	143	113713	18.26	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.79	165	213796	23.71	ng/ul	0.01
27) 4-Chloroaniline-d4	9.22	131	208874	18.04	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	525622	20.15	ng/ul	0.02
44) Acenaphthylene-d8	12.34	160	637095	18.04	ng/ul	0.02
49) 4-Nitrophenol-d4	12.96	143	106542	16.65	ng/ul	0.02
55) Fluorene-d10	13.74	176	411456	19.13	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	144029	18.25	ng/ul	0.01
68) Anthracene-d10	15.86	188	696653	18.96	ng/ul	0.01
74) Pyrene-d10	18.72	212	728593	15.95	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	698946	18.21	ng/ul	-0.08

Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	103750	14.91	ng/ul	87
4) Phenol	6.08	94	216356	16.34	ng/ul#	53
6) Bis(2-Chloroethyl)ether	6.23	93	168168	16.69	ng/ul#	84
8) 2-Chlorophenol	6.32	128	192661	18.06	ng/ul#	83
9) 2-Methylphenol	7.14	108	146246	16.61	ng/ul	97
10) 2,2'-oxybis(1-Chloropropan	7.20	45	258881	18.41	ng/ul	99
12) Acetophenone	7.42	105	275375	21.67	ng/ul#	80
13) N-Nitroso-di-n-propylamine	7.45	70	132821	20.52	ng/ul#	68
14) 4-Methylphenol	7.45	108	143778	15.74	ng/ul	86
15) Hexachloroethane	7.61	117	106361	19.63	ng/ul#	80
18) Nitrobenzene	7.73	77	221353	21.91	ng/ul#	90
19) Isophorone	8.20	82	454028	26.59	ng/ul	93
21) 2-Nitrophenol	8.34	139	123405	19.23	ng/ul#	66
22) 2,4-Dimethylphenol	8.46	107	207124	22.64	ng/ul	92
23) Bis(2-Chloroethoxy)methane	8.65	93	209308	18.08	ng/ul#	96
25) 2,4-Dichlorophenol	8.81	162	218866	24.00	ng/ul#	93
26) Naphthalene	9.12	128	476882	17.81	ng/ul	96
28) 4-Chloroaniline	9.25	127	147026	13.67	ng/ul	99
29) Hexachlorobutadiene	9.41	225	169292	31.67	ng/ul	94
30) Caprolactam	9.91	113	58639m	22.67	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	180855	23.36	ng/ul	94
32) 2-Methylnaphthalene	10.52	142	370782	21.36	ng/ul	95
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	304728	24.57	ng/ul	94
35) Hexachlorocyclopentadiene	10.87	237	208950	30.40	ng/ul	99

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	168238	20.52 ng/ul	90
37) 2,4,5-Trichlorophenol	11.18	196	177236m	20.14 ng/ul	
38) 1,1'-Biphenyl	11.49	154	524452	18.82 ng/ul#	93
39) 2-Chloronaphthalene	11.52	162	458657	19.47 ng/ul	95
40) 2-Nitroaniline	11.74	65	143010	21.40 ng/ul#	76
42) Dimethylphthalate	12.16	163	572137	21.11 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	143898	20.19 ng/ul	93
45) Acenaphthylene	12.36	152	605238	17.34 ng/ul#	93
46) 3-Nitroaniline	12.60	138	110110	15.93 ng/ul	99
47) Acenaphthene	12.73	153	408102	19.38 ng/ul	94
48) 2,4-Dinitrophenol	12.81	184	111732	26.40 ng/ul#	87
50) 4-Nitrophenol	12.98	109	120941	29.08 ng/ul#	71
51) Dibenzofuran	13.09	168	596874	19.27 ng/ul#	85
52) 2,4-Dinitrotoluene	13.09	165	179165	20.06 ng/ul#	57
53) 2,3,4,6-Tetrachlorophenol	13.36	232	174059	24.80 ng/ul#	88
54) Diethylphthalate	13.64	149	554598	20.49 ng/ul	99
56) Fluorene	13.80	166	485913	19.26 ng/ul	98
57) 4-Chlorophenyl-phenylether	13.84	204	267647	21.73 ng/ul	94
58) 4-Nitroaniline	13.86	138	98050	14.74 ng/ul#	56
61) 4,6-Dinitro-2-methylphenol	13.94	198	149082	19.46 ng/ul	93
62) N-Nitrosodiphenylamine	14.08	169	420493	17.04 ng/ul	97
63) 4-Bromophenyl-phenylether	14.85	248	177082	19.81 ng/ul	90
64) Hexachlorobenzene	14.97	284	206010	19.74 ng/ul	96
65) Atrazine	15.23	200	71945	9.39 ng/ul	93
66) Pentachlorophenol	15.38	266	156819	25.43 ng/ul	94
67) Phenanthrene	15.80	178	736152	16.48 ng/ul	100
69) Anthracene	15.91	178	725047	16.70 ng/ul	99
70) Carbazole	16.25	167	653398	16.99 ng/ul	98
71) Di-n-butylphthalate	17.05	149	941636	16.24 ng/ul#	95
72) Fluoranthene	18.28	202	867225	18.71 ng/ul#	86
75) Pyrene	18.76	202	896458	15.49 ng/ul#	85
76) Butylbenzylphthalate	20.16	149	464058	15.35 ng/ul	97
77) 3,3'-Dichlorobenzidine	21.23	252	298536	17.81 ng/ul	96
78) Benzo(a)anthracene	21.27	228	857385	15.29 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.38	149	436825	12.76 ng/ul	99
80) Chrysene	21.35	228	759670	15.39 ng/ul	95
82) Di-n-octyl phthalate	22.90	149	868725	15.53 ng/ul	100
83) Benzo(b)fluoranthene	23.90	252	863642	18.77 ng/ul#	91
84) Benzo(k)fluoranthene	23.98	252	746117	16.53 ng/ul#	94
86) Benzo(a)pyrene	24.90	252	780602	18.44 ng/ul#	91
87) Indeno(1,2,3-cd)pyrene	29.28	276	710531	19.49 ng/ul#	65
88) Dibenzo(a,h)anthracene	29.40	278	574259	16.41 ng/ul#	90
89) Benzo(g,h,i)perylene	30.56	276	730437	18.56 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 23:28

Lab File ID: BA041302.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.616	0.010	14.1	50.0
Phenol	1.314	1.269	0.010	-3.4	50.0
Bis(2-Chloroethyl)ether	1.052	1.019	0.010	-3.1	50.0
2-Chlorophenol	1.164	1.082	0.010	-7.1	50.0
2-Methylphenol	0.911	0.918	0.010	0.8	50.0
2,2-oxybis(1-Chloropropane)	1.559	1.576	0.010	1.1	50.0
Acetophenone	1.607	1.491	0.010	-7.2	50.0
4-Methylphenol	0.954	0.922	0.010	-3.3	50.0
N-Nitroso-di-n-propylamine	0.819	0.761	0.010	-7.1	50.0
Hexachloroethane	0.642	0.631	0.010	-1.7	50.0
Nitrobenzene	0.416	0.429	0.010	3.2	50.0
Isophorone	0.802	0.807	0.010	0.7	50.0
2-Nitrophenol	0.234	0.235	0.010	0.4	50.0
2,4-Dimethylphenol	0.386	0.391	0.010	1.4	50.0
Bis(2-Chloroethoxy)methane	0.395	0.398	0.010	0.7	50.0
2,4-Dichlorophenol	0.409	0.390	0.010	-4.6	50.0
Naphthalene	0.905	0.924	0.010	2.2	50.0
4-Chloroaniline	0.264	0.266	0.010	0.6	50.0
Hexachlorobutadiene	0.309	0.277	0.010	-10.2	50.0
Caprolactam	0.099	0.106	0.010	6.9	50.0
4-Chloro-3-methylphenol	0.353	0.353	0.010	0.1	50.0
2-Methylnaphthalene	0.709	0.654	0.010	-7.8	50.0
Hexachlorocyclopentadiene	0.519	0.488	0.010	-6.0	50.0
2,4,6-Trichlorophenol	0.451	0.448	0.010	-0.7	50.0
2,4,5-Trichlorophenol	0.466	0.445	0.010	-4.5	50.0
1,1-Biphenyl	1.407	1.359	0.010	-3.4	50.0
2-Chloronaphthalene	1.211	1.144	0.010	-5.5	50.0
2-Nitroaniline	0.376	0.382	0.010	1.5	50.0
Dimethylphthalate	1.452	1.394	0.010	-4.0	50.0
2,6-Dinitrotoluene	0.367	0.353	0.010	-3.9	50.0
Acenaphthylene	1.591	1.663	0.010	4.5	50.0
3-Nitroaniline	0.289	0.302	0.010	4.4	50.0
Acenaphthene	1.048	0.987	0.010	-5.8	50.0
2,4-Dinitrophenol	0.301	0.276	0.010	-8.3	50.0
4-Nitrophenol	0.326	0.294	0.010	-9.8	50.0
Dibenzofuran	1.562	1.526	0.010	-2.3	50.0
2,4-Dinitrotoluene	0.480	0.474	0.010	-1.2	50.0
Diethylphthalate	1.411	1.365	0.010	-3.2	50.0
Fluorene	1.290	1.313	0.010	1.8	50.0
4-Chlorophenyl-phenylether	0.686	0.653	0.010	-4.9	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 23:28

Lab File ID: BA041302.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.278	0.010	23.5	50.0
4,6-Dinitro-2-methylphenol	0.213	0.209	0.010	-2.0	50.0
N-Nitrosodiphenylamine[1]	0.571	0.606	0.010	6.1	50.0
1,2,4,5-Tetrachlorobenzene	0.748	0.696	0.010	-6.9	50.0
4-Bromophenyl-phenylether	0.246	0.229	0.010	-7.0	50.0
Hexachlorobenzene	0.287	0.279	0.010	-2.9	50.0
Atrazine	0.101	0.103	0.010	2.2	50.0
Pentachlorophenol	0.219	0.216	0.010	-1.4	50.0
Phenanthrene	1.020	1.034	0.010	1.4	50.0
Anthracene	1.027	1.019	0.010	-0.8	50.0
Carbazole	0.929	0.944	0.010	1.6	50.0
Di-n-butylphthalate	1.330	1.387	0.010	4.3	50.0
Fluoranthene	1.211	1.182	0.010	-2.4	50.0
Pyrene	1.110	1.099	0.010	-1.0	50.0
Butylbenzylphthalate	0.538	0.550	0.010	2.3	50.0
3,3-Dichlorobenzidine	0.323	0.339	0.010	5.0	50.0
Benzo(a)anthracene	1.061	1.029	0.010	-3.0	50.0
Chrysene	0.901	0.974	0.010	8.1	50.0
Bis(2-ethylhexyl)phthalate	0.563	0.567	0.010	0.6	50.0
Di-n-octyl phthalate	1.273	1.328	0.010	4.3	50.0
Benzo(b)fluoranthene	1.306	1.190	0.010	-8.9	50.0
Benzo(k)fluoranthene	1.111	1.195	0.010	7.6	50.0
Benzo(a)pyrene	1.126	1.130	0.010	0.3	50.0
Indeno(1,2,3-cd)pyrene	1.055	0.999	0.010	-5.3	50.0
Dibenzo(a,h)anthracene	0.810	0.888	0.010	9.6	50.0
Benzo(g,h,i)perylene	1.068	1.066	0.010	-0.2	50.0
2,3,4,6-Tetrachlorophenol	0.441	0.420	0.010	-4.7	50.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 23:28

Lab File ID: BA041302.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

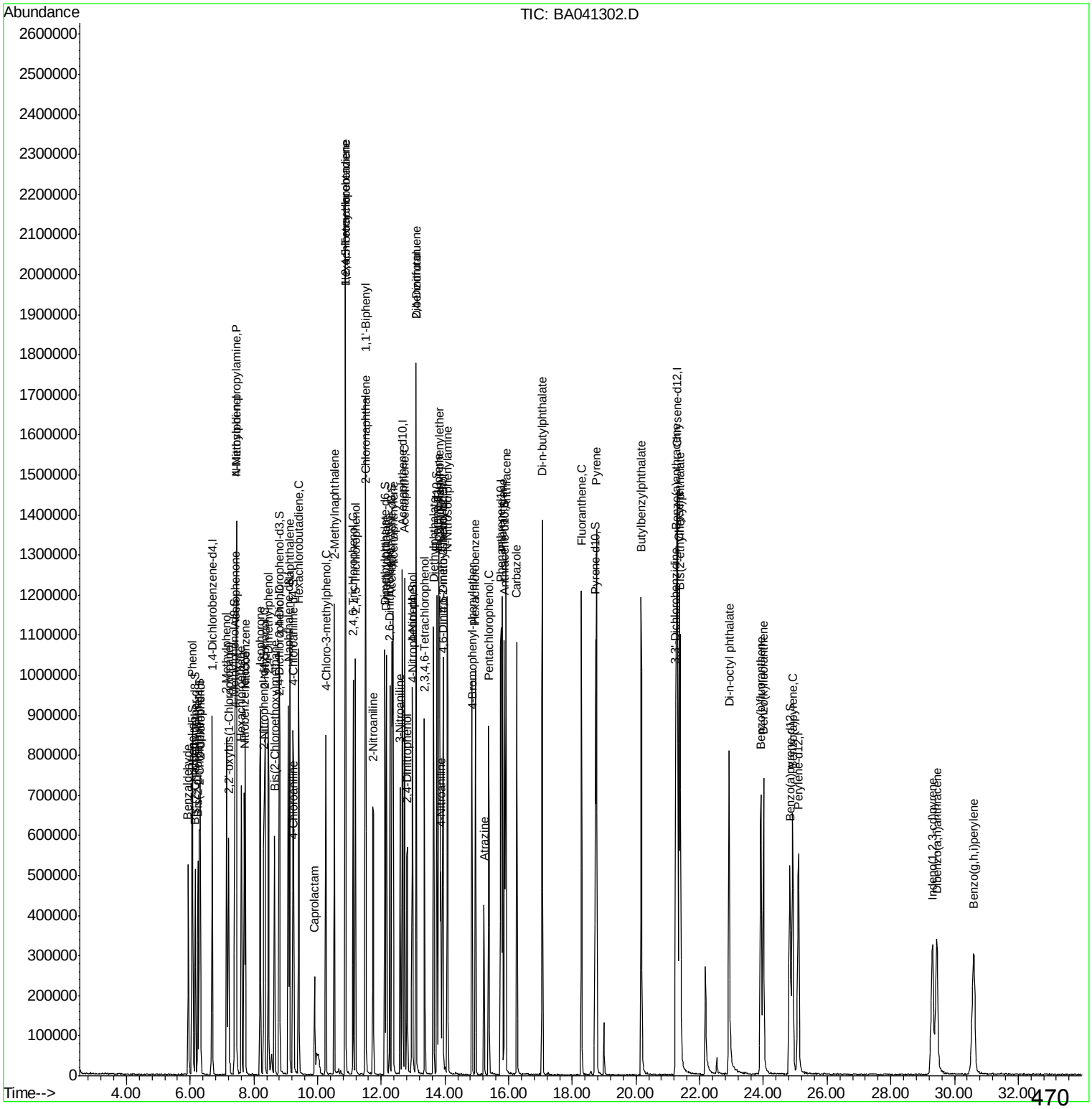
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.154	0.010	-4.7	50.0
Bis(2-Chloroethyl)ether-d8	0.821	0.824	0.010	0.4	50.0
2-Chlorophenol-d4	1.029	1.028	0.010	-0.1	50.0
4-Methylphenol-d8	0.822	0.818	0.010	-0.5	50.0
Nitrobenzene-d5	0.177	0.170	0.010	-3.7	50.0
2-Nitrophenol-d4	0.218	0.221	0.010	1.2	50.0
2,4-Dichlorophenol-d3	0.403	0.392	0.010	-2.6	50.0
4-Chloroaniline-d4	0.399	0.410	0.010	2.9	50.0
Dimethylphthalate-d6	1.332	1.372	0.010	3.0	50.0
Acenaphthylene-d8	1.619	1.682	0.010	3.9	50.0
4-Nitrophenol-d4	0.271	0.256	0.010	-5.6	50.0
Fluorene-d10	1.071	1.034	0.010	-3.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.204	0.010	-1.6	50.0
Anthracene-d10	0.957	0.959	0.010	0.2	50.0
Pyrene-d10	0.874	0.880	0.010	0.7	50.0
Benzo(a)pyrene-d12	1.089	1.056	0.010	-3.0	50.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

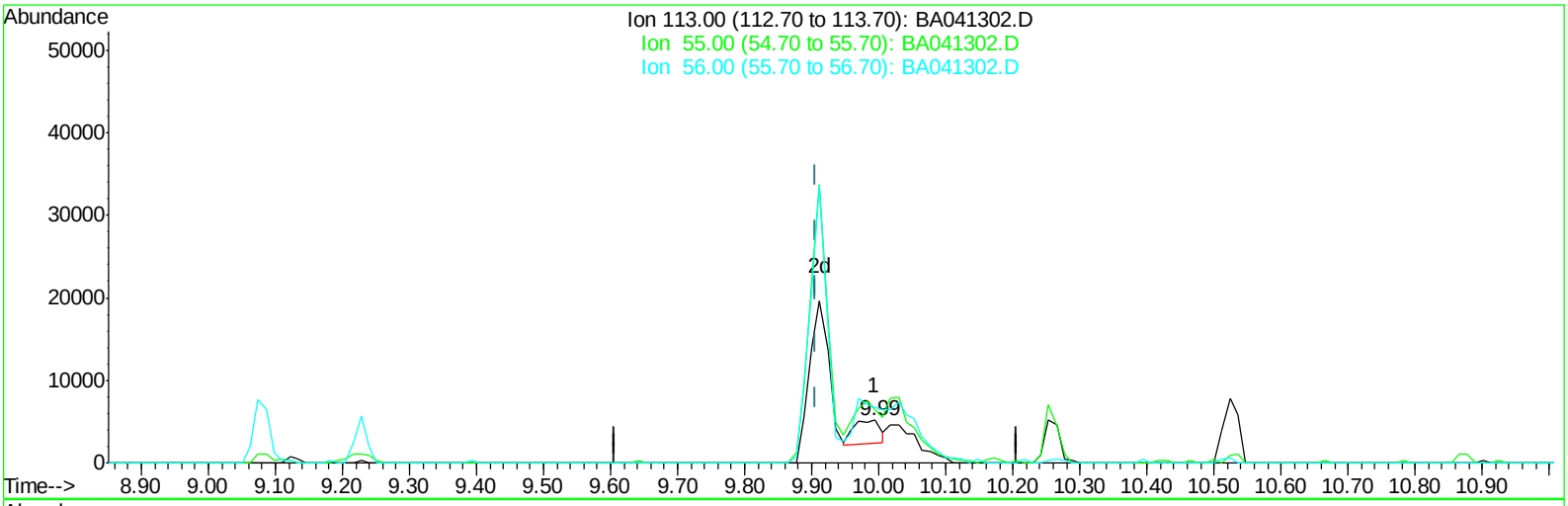
Quant Time: Oct 20 12:16:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

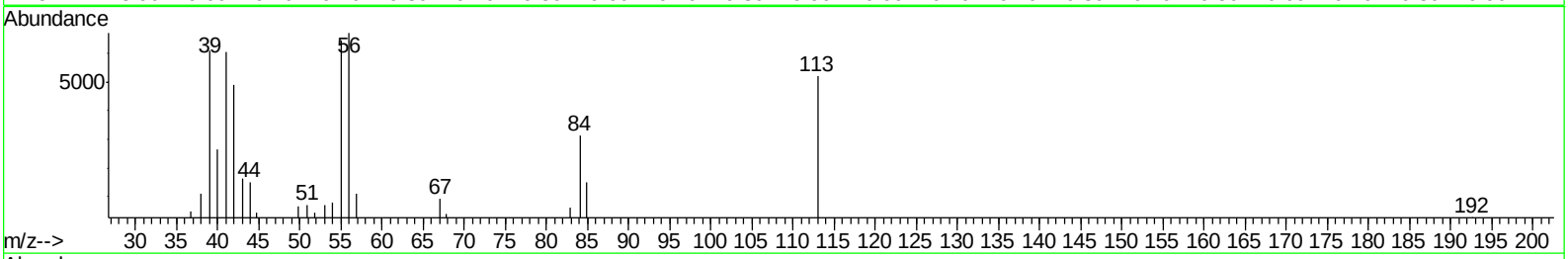


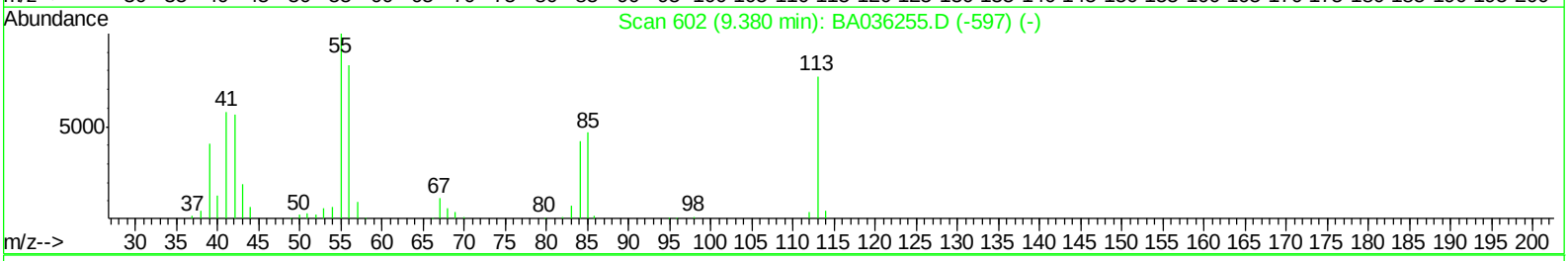
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(30) Caprolactam

9.994min (+0.088) 2.38ng/ul

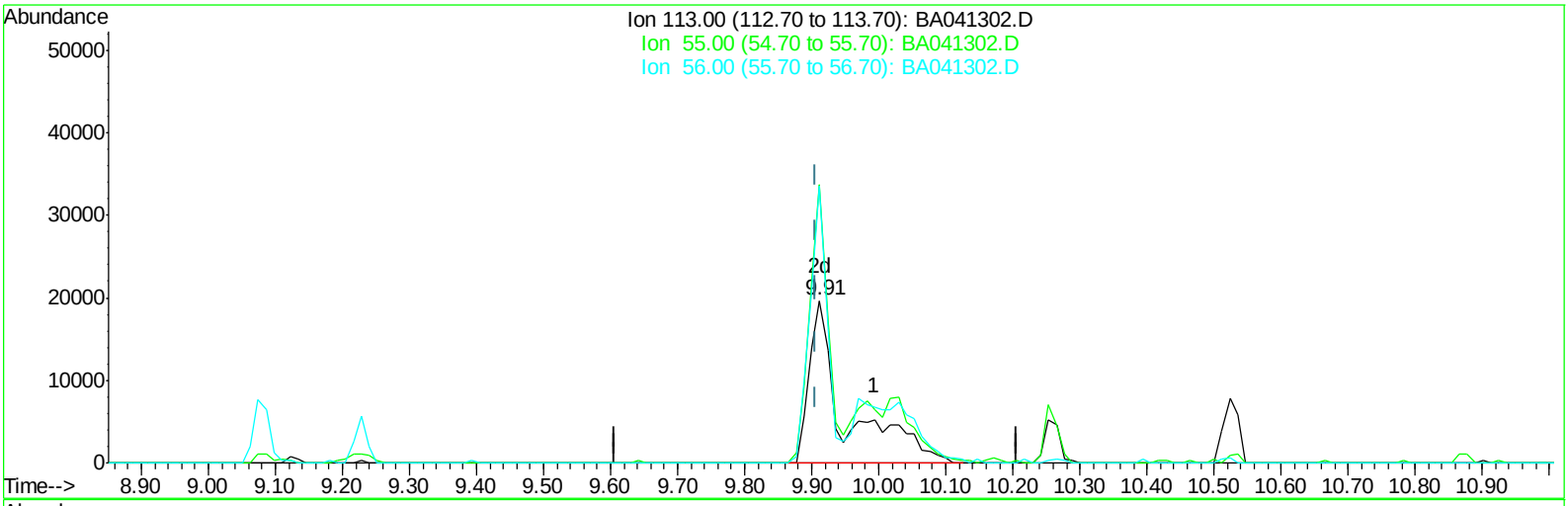
response 8146

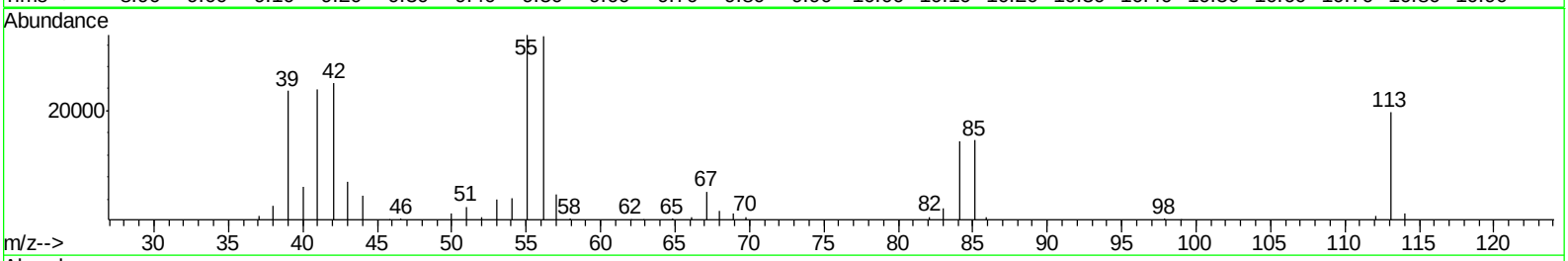
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	124.48
56.00	121.80	129.14
0.00	0.00	0.00

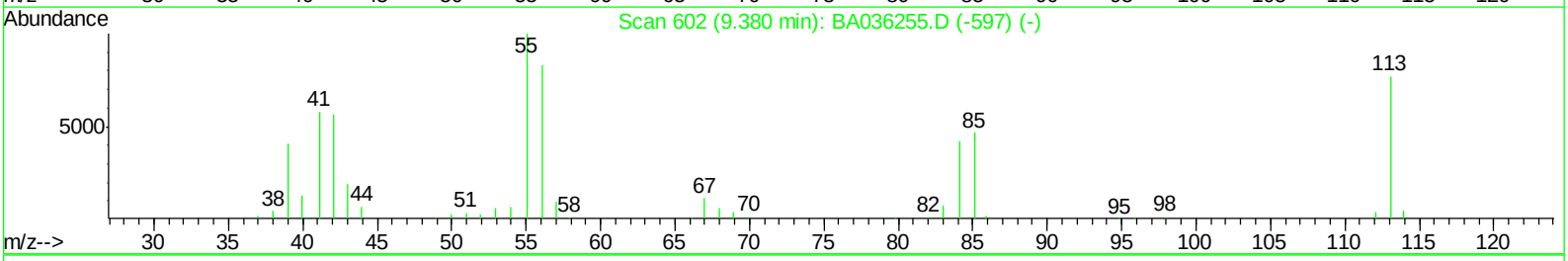
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(30) Caprolactam

9.912min (+0.006) 21.33ng/ul m

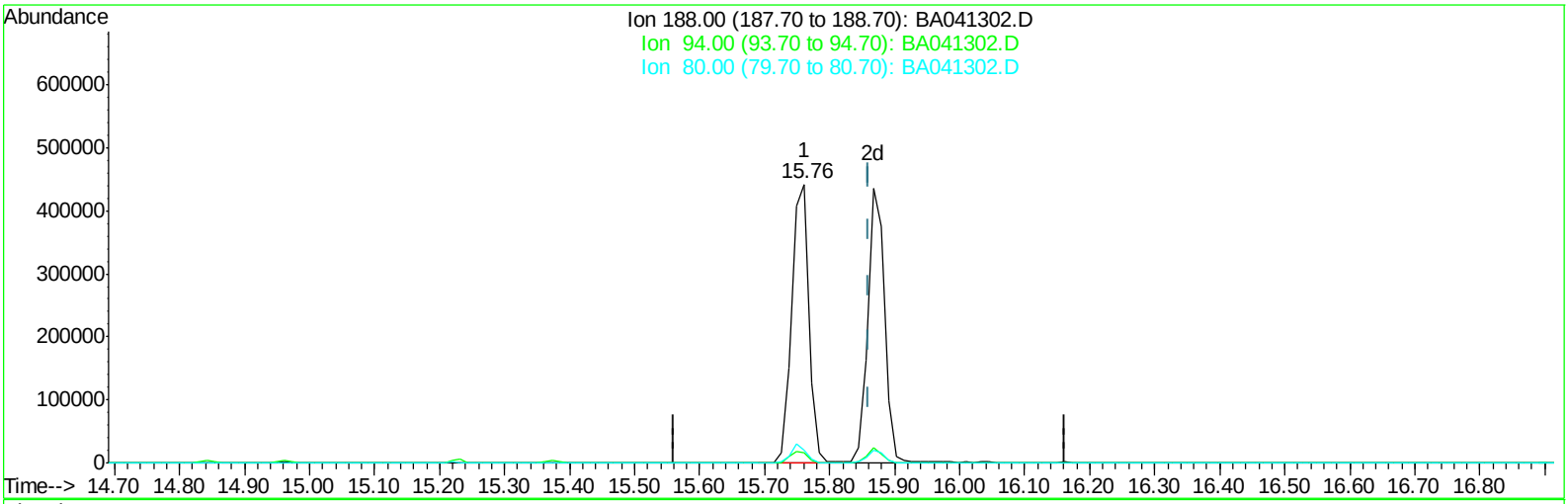
response 72885

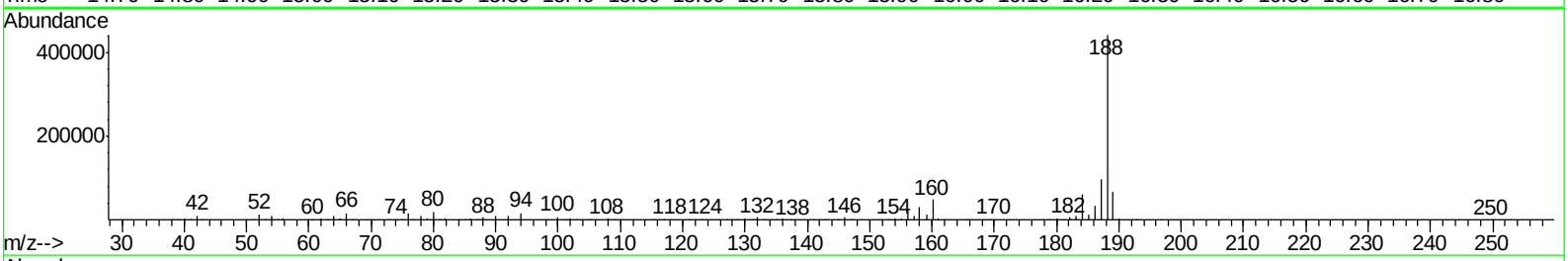
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	171.55
56.00	121.80	170.61#
0.00	0.00	0.00

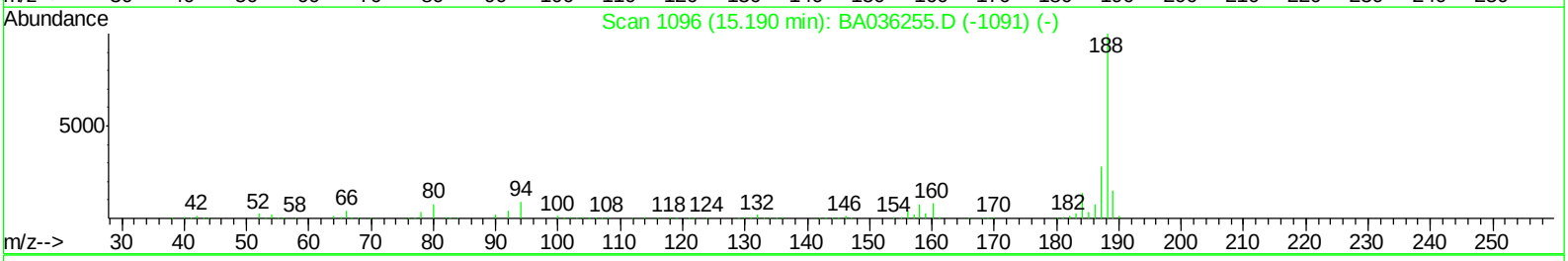
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(68) Anthracene-d10 (S)

15.761min (-0.101) 20.89ng/ul

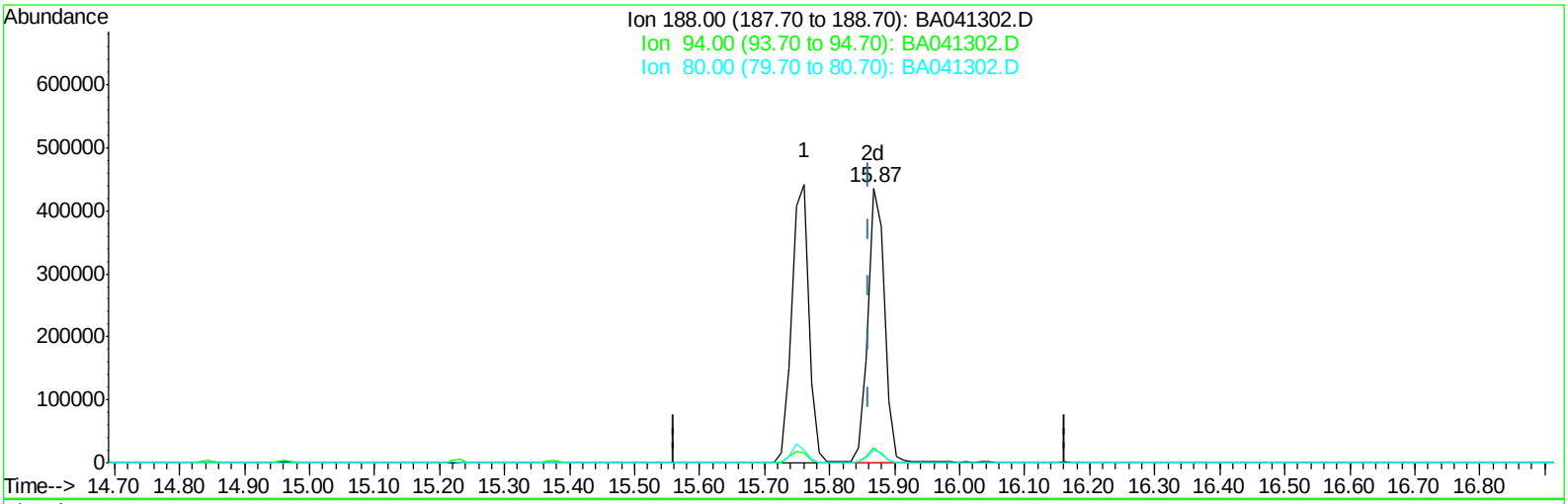
response 828346

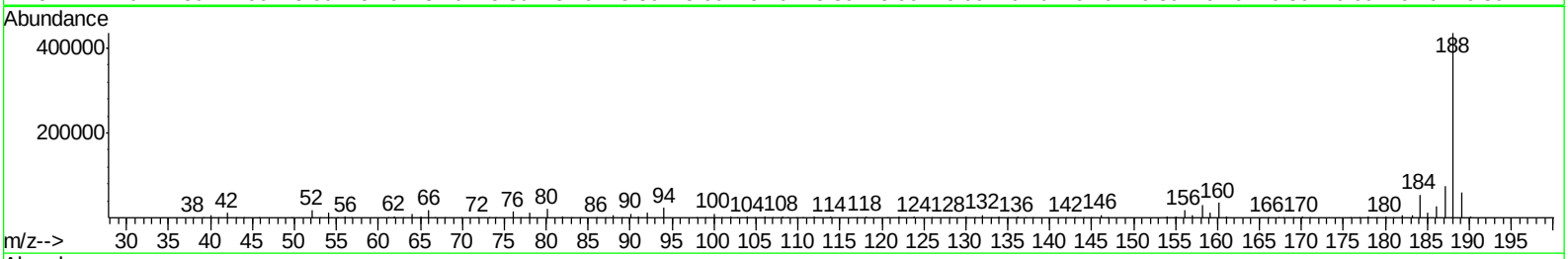
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	3.83
80.00	4.20	4.39
0.00	0.00	0.00

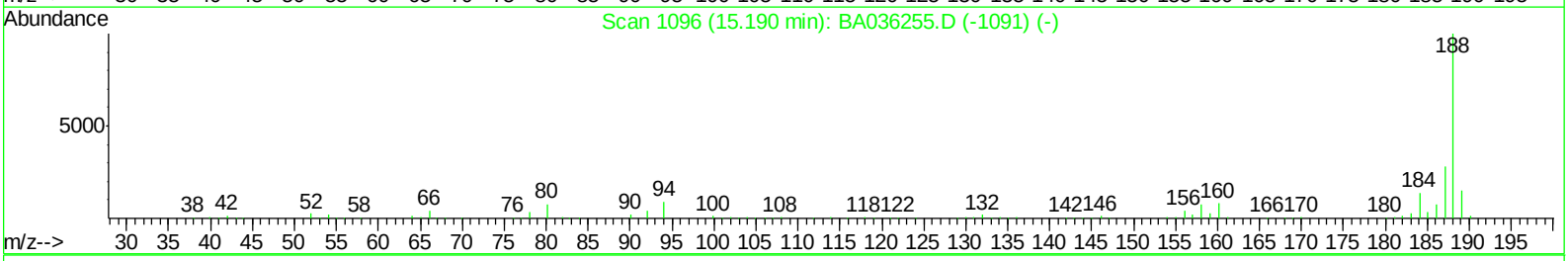
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(68) Anthracene-d10 (S)

15.867min (+0.006) 20.03ng/ul m

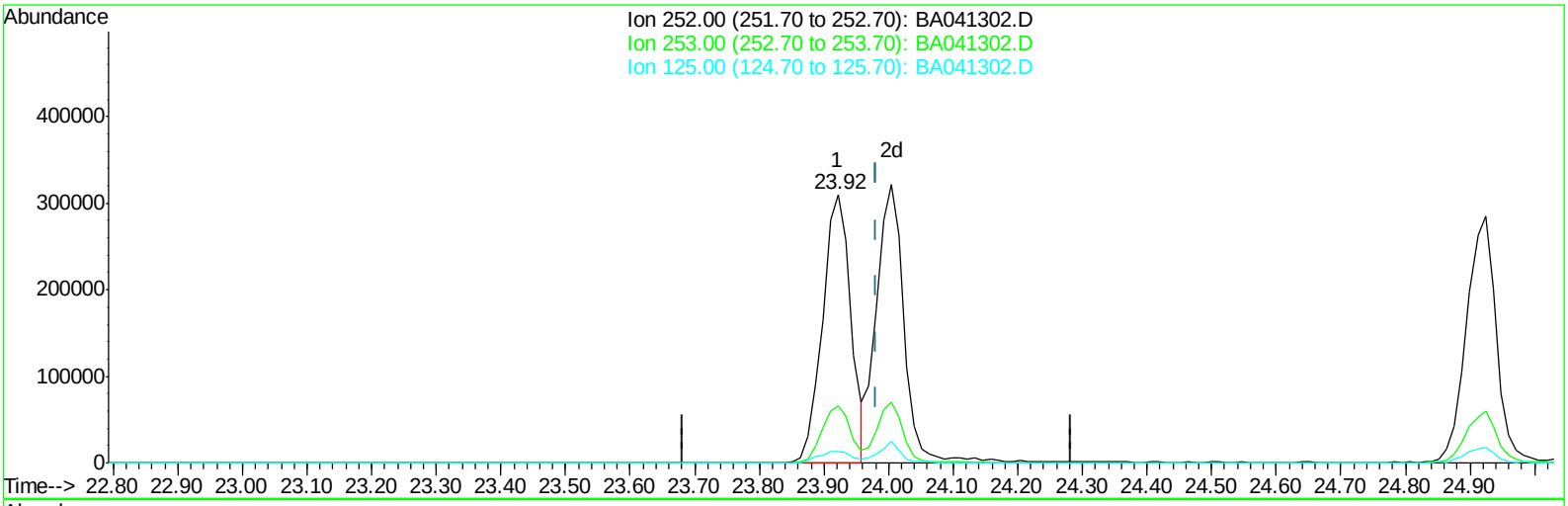
response 794464

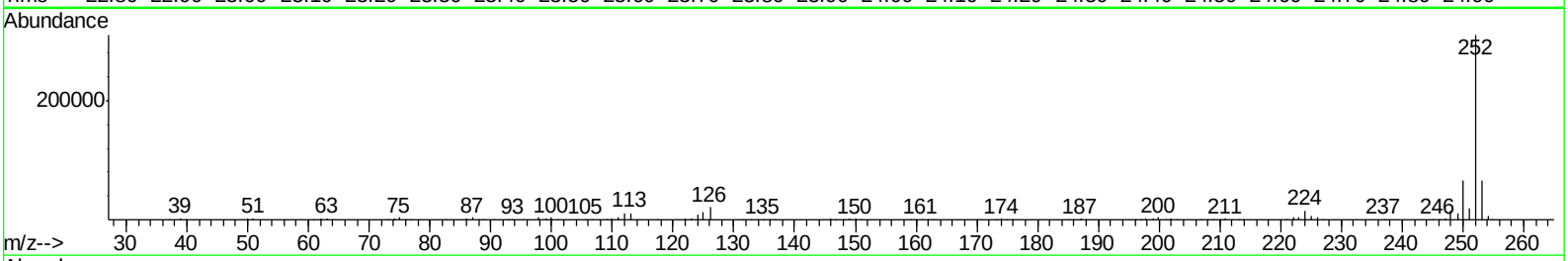
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	5.32#
80.00	4.20	4.61
0.00	0.00	0.00

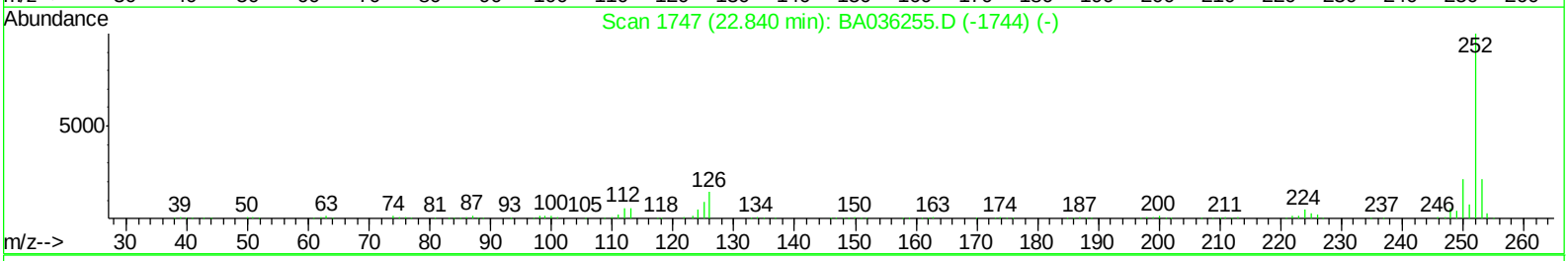
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(84) Benzo(k)fluoranthene

23.922min (-0.061) 21.41ng/ul

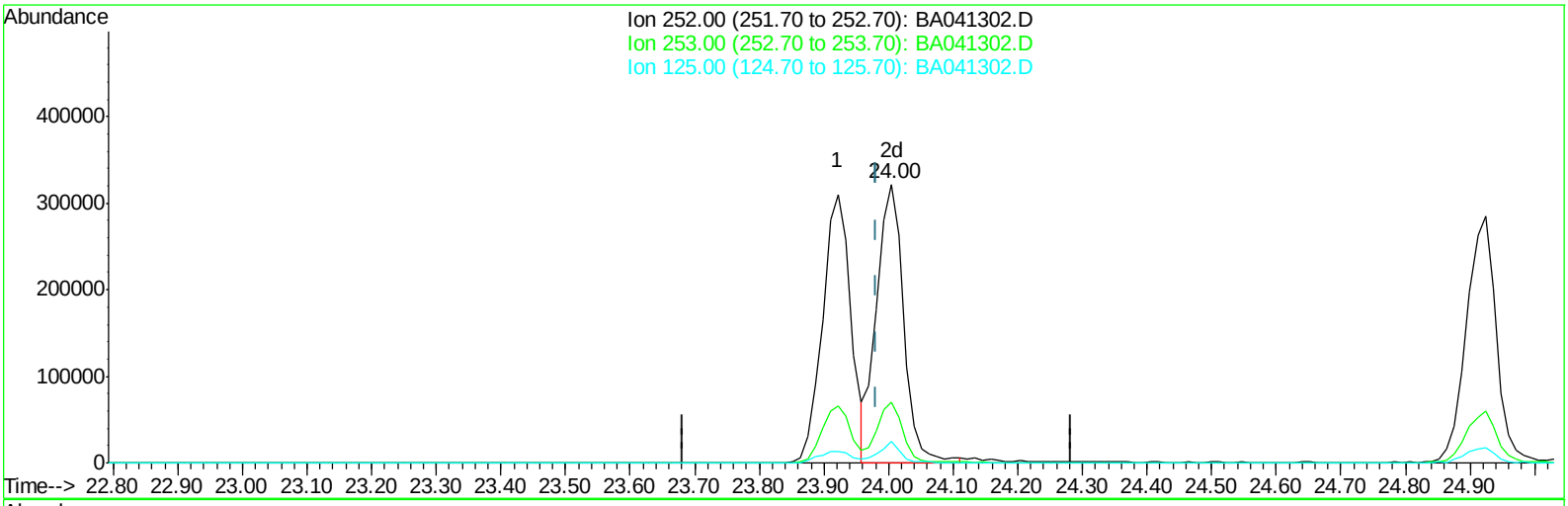
response 939880

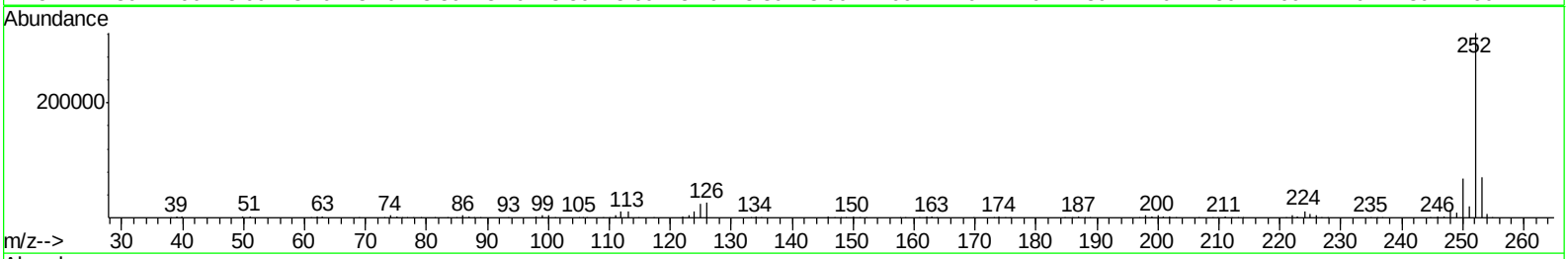
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.30
125.00	4.40	4.39
0.00	0.00	0.00

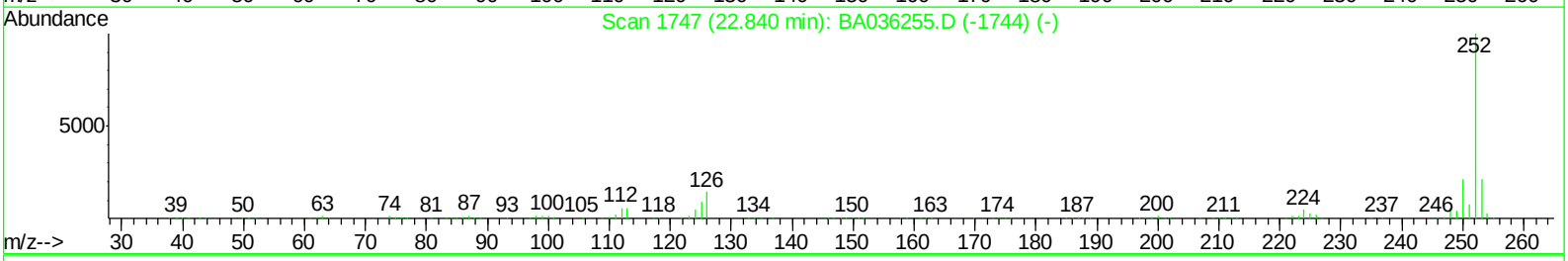
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(84) Benzo(k)fluoranthene

24.005min (+0.023) 21.51ng/ul m

response 944349

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.71
125.00	4.40	7.66#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:16:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	228931	20.00	ng/ul	0.00
16) Naphthalene-d8	9.09	136	688669	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.67	164	475481	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.76	188	828346	20.00	ng/ul	0.00
73) Chrysene-d12	21.29	240	953051	20.00	ng/ul	0.00
81) Perylene-d12	25.10	264	790075	20.00	ng/ul	0.03
System Monitoring Compounds						
3) Phenol-d5	6.05	99	264247	19.06	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	188617	20.07	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	235358	19.98	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	187199	19.91	ng/ul	0.00
17) Nitrobenzene-d5	7.70	128	117374	19.25	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	151900	20.24	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	270285	19.46	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	282641	20.58	ng/ul	0.00
41) Dimethylphthalate-d6	12.11	166	652339	20.60	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	799709	20.77	ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	121660	18.85	ng/ul	0.00
55) Fluorene-d10	13.75	176	491667	19.31	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.93	200	168662	19.68	ng/ul	0.00
68) Anthracene-d10	15.87	188	794464m	20.03	ng/ul	0.00
74) Pyrene-d10	18.73	212	839006	20.15	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.83	264	834551	19.40	ng/ul	0.01

Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	141024	22.80	ng/ul	94
4) Phenol	6.08	94	290507	19.32	ng/ul	96
6) Bis(2-Chloroethyl)ether	6.24	93	233369	19.38	ng/ul	86
8) 2-Chlorophenol	6.32	128	247601	18.58	ng/ul	96
9) 2-Methylphenol	7.15	108	210206	20.16	ng/ul	92
10) 2,2'-oxybis(1-Chloropropan	7.20	45	360707	20.21	ng/ul	97
12) Acetophenone	7.43	105	341263	18.55	ng/ul	96
13) N-Nitroso-di-n-propylamine	7.45	70	174260	18.58	ng/ul#	94
14) 4-Methylphenol	7.45	108	211146	19.33	ng/ul	92
15) Hexachloroethane	7.60	117	144450	19.66	ng/ul#	81
18) Nitrobenzene	7.73	77	295631	20.64	ng/ul	96
19) Isophorone	8.20	82	556020	20.12	ng/ul	99
21) 2-Nitrophenol	8.34	139	161766	20.08	ng/ul	98
22) 2,4-Dimethylphenol	8.45	107	269463	20.27	ng/ul	91
23) Bis(2-Chloroethoxy)methane	8.65	93	273808	20.15	ng/ul	96
25) 2,4-Dichlorophenol	8.82	162	268671	19.10	ng/ul	96
26) Naphthalene	9.12	128	636668	20.43	ng/ul	97
28) 4-Chloroaniline	9.25	127	182928	20.16	ng/ul	94
29) Hexachlorobutadiene	9.41	225	190987	17.93	ng/ul	90
30) Caprolactam	9.91	113	72885m	21.33	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	243337	20.03	ng/ul#	86
32) 2-Methylnaphthalene	10.52	142	450397	18.46	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	331149	18.62	ng/ul	96
35) Hexachlorocyclopentadiene	10.88	237	231905	18.79	ng/ul#	93

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:16:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.11	196	213048	19.86 ng/ul	96
37) 2,4,5-Trichlorophenol	11.18	196	211515	19.11 ng/ul	93
38) 1,1'-Biphenyl	11.50	154	646115	19.32 ng/ul	99
39) 2-Chloronaphthalene	11.51	162	543914	18.88 ng/ul	96
40) 2-Nitroaniline	11.74	65	181538	20.33 ng/ul	89
42) Dimethylphthalate	12.16	163	662881	19.20 ng/ul	97
43) 2,6-Dinitrotoluene	12.27	165	167654	19.22 ng/ul	90
45) Acenaphthylene	12.37	152	790805	20.90 ng/ul	94
46) 3-Nitroaniline	12.59	138	143477	20.91 ng/ul	99
47) Acenaphthene	12.74	153	469348	18.83 ng/ul	99
48) 2,4-Dinitrophenol	12.82	184	131237	18.32 ng/ul	99
50) 4-Nitrophenol	12.98	109	139774	18.06 ng/ul	90
51) Dibenzofuran	13.10	168	725436	19.53 ng/ul	92
52) 2,4-Dinitrotoluene	13.10	165	225547	19.77 ng/ul	89
53) 2,3,4,6-Tetrachlorophenol	13.37	232	199842	19.05 ng/ul	95
54) Diethylphthalate	13.64	149	649251	19.36 ng/ul	99
56) Fluorene	13.81	166	624222	20.36 ng/ul	96
57) 4-Chlorophenyl-phenylether	13.83	204	310276	19.01 ng/ul	92
58) 4-Nitroaniline	13.87	138	132116	24.70 ng/ul	91
61) 4,6-Dinitro-2-methylphenol	13.94	198	172989	19.62 ng/ul#	91
62) N-Nitrosodiphenylamine	14.08	169	501628	21.23 ng/ul	98
63) 4-Bromophenyl-phenylether	14.85	248	189549	18.62 ng/ul	96
64) Hexachlorobenzene	14.96	284	230782	19.44 ng/ul#	88
65) Atrazine	15.23	200	85534	20.49 ng/ul	94
66) Pentachlorophenol	15.37	266	178832	19.71 ng/ul	94
67) Phenanthrene	15.81	178	856890	20.27 ng/ul	99
69) Anthracene	15.91	178	843680	19.84 ng/ul	98
70) Carbazole	16.26	167	781622	20.32 ng/ul	96
71) Di-n-butylphthalate	17.06	149	1149130	20.86 ng/ul	99
72) Fluoranthene	18.29	202	979394	19.53 ng/ul#	97
75) Pyrene	18.76	202	1047427	19.81 ng/ul#	98
76) Butylbenzylphthalate	20.16	149	524654	20.47 ng/ul	89
77) 3,3'-Dichlorobenzidine	21.25	252	323257	20.98 ng/ul	97
78) Benzo(a)anthracene	21.27	228	980716	19.40 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.39	149	540051	20.15 ng/ul	98
80) Chrysene	21.35	228	928032	21.62 ng/ul	97
82) Di-n-octyl phthalate	22.92	149	1048922	20.87 ng/ul	100
83) Benzo(b)fluoranthene	23.92	252	939880	18.21 ng/ul	98
84) Benzo(k)fluoranthene	24.00	252	944349m	21.51 ng/ul	
86) Benzo(a)pyrene	24.92	252	892484	20.06 ng/ul#	95
87) Indeno(1,2,3-cd)pyrene	29.32	276	789371	18.93 ng/ul	99
88) Dibenzo(a,h)anthracene	29.45	278	701223	21.91 ng/ul	97
89) Benzo(g,h,i)perylene	30.60	276	842026	19.96 ng/ul	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 15:18

Lab File ID: BA041323.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.698	0.010	29.2	40.0
Phenol	1.314	1.243	0.800	-5.4	25.0
Bis(2-Chloroethyl)ether	1.052	0.949	0.700	-9.8	25.0
2-Chlorophenol	1.164	1.134	0.800	-2.5	25.0
2-Methylphenol	0.911	0.877	0.700	-3.8	25.0
2,2-oxybis(1-Chloropropane)	1.559	1.514	0.010	-2.9	40.0
Acetophenone	1.607	1.469	0.010	-8.6	40.0
4-Methylphenol	0.954	0.864	0.600	-9.4	25.0
N-Nitroso-di-n-propylamine	0.819	0.821	0.500	0.2	25.0
Hexachloroethane	0.642	0.637	0.300	-0.8	25.0
Nitrobenzene	0.416	0.436	0.200	4.8	25.0
Isophorone	0.802	0.852	0.400	6.2	25.0
2-Nitrophenol	0.234	0.231	0.100	-1.1	25.0
2,4-Dimethylphenol	0.386	0.371	0.200	-4.0	25.0
Bis(2-Chloroethoxy)methane	0.395	0.406	0.300	2.9	25.0
2,4-Dichlorophenol	0.409	0.408	0.200	-0.2	25.0
Naphthalene	0.905	0.895	0.700	-1.1	25.0
4-Chloroaniline	0.264	0.260	0.010	-1.4	40.0
Hexachlorobutadiene	0.309	0.319	0.010	3.3	40.0
Caprolactam	0.099	0.110	0.010	10.7	40.0
4-Chloro-3-methylphenol	0.353	0.351	0.200	-0.4	25.0
2-Methylnaphthalene	0.709	0.660	0.400	-6.8	25.0
Hexachlorocyclopentadiene	0.519	0.520	0.010	0.2	40.0
2,4,6-Trichlorophenol	0.451	0.444	0.200	-1.7	25.0
2,4,5-Trichlorophenol	0.466	0.514	0.200	10.3	25.0
1,1-Biphenyl	1.407	1.406	0.010	-0.1	40.0
2-Chloronaphthalene	1.211	1.240	0.800	2.4	25.0
2-Nitroaniline	0.376	0.416	0.010	10.5	40.0
Dimethylphthalate	1.452	1.473	0.010	1.4	40.0
2,6-Dinitrotoluene	0.367	0.367	0.200	0.0	25.0
Acenaphthylene	1.591	1.593	0.900	0.1	25.0
3-Nitroaniline	0.289	0.311	0.010	7.5	40.0
Acenaphthene	1.048	1.071	0.900	2.2	25.0
2,4-Dinitrophenol	0.301	0.246	0.010	-18.4	40.0
4-Nitrophenol	0.326	0.335	0.010	2.7	40.0
Dibenzofuran	1.562	1.561	0.800	-0.1	25.0
2,4-Dinitrotoluene	0.480	0.476	0.200	-0.8	25.0
Diethylphthalate	1.411	1.562	0.010	10.7	40.0
Fluorene	1.290	1.372	0.900	6.4	25.0
4-Chlorophenyl-phenylether	0.686	0.732	0.400	6.7	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 15:18

Lab File ID: BA041323.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.326	0.010	44.7	40.0
4,6-Dinitro-2-methylphenol	0.213	0.199	0.010	-6.6	40.0
N-Nitrosodiphenylamine[1]	0.571	0.508	0.010	-11.1	40.0
1,2,4,5-Tetrachlorobenzene	0.748	0.831	0.010	11.1	40.0
4-Bromophenyl-phenylether	0.246	0.239	0.100	-2.8	25.0
Hexachlorobenzene	0.287	0.300	0.100	4.6	25.0
Atrazine	0.101	0.108	0.010	6.5	40.0
Pentachlorophenol	0.219	0.213	0.050	-2.8	25.0
Phenanthrene	1.020	0.996	0.700	-2.4	25.0
Anthracene	1.027	0.969	0.700	-5.7	25.0
Carbazole	0.929	0.910	0.010	-2.0	40.0
Di-n-butylphthalate	1.330	1.321	0.010	-0.7	40.0
Fluoranthene	1.211	1.199	0.600	-1.0	25.0
Pyrene	1.110	1.115	0.600	0.4	25.0
Butylbenzylphthalate	0.538	0.529	0.010	-1.7	40.0
3,3-Dichlorobenzidine	0.323	0.329	0.010	2.0	40.0
Benzo(a)anthracene	1.061	1.077	0.800	1.5	25.0
Chrysene	0.901	0.933	0.700	3.5	25.0
Bis(2-ethylhexyl)phthalate	0.563	0.584	0.010	3.8	40.0
Di-n-octyl phthalate	1.273	1.254	0.010	-1.5	40.0
Benzo(b)fluoranthene	1.306	1.219	0.700	-6.7	25.0
Benzo(k)fluoranthene	1.111	1.112	0.700	0.1	25.0
Benzo(a)pyrene	1.126	1.141	0.700	1.3	25.0
Indeno(1,2,3-cd)pyrene	1.055	1.105	0.500	4.8	25.0
Dibenzo(a,h)anthracene	0.810	0.782	0.400	-3.4	25.0
Benzo(g,h,i)perylene	1.068	0.979	0.500	-8.3	25.0
2,3,4,6-Tetrachlorophenol	0.441	0.492	0.100	11.5	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 15:18

Lab File ID: BA041323.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

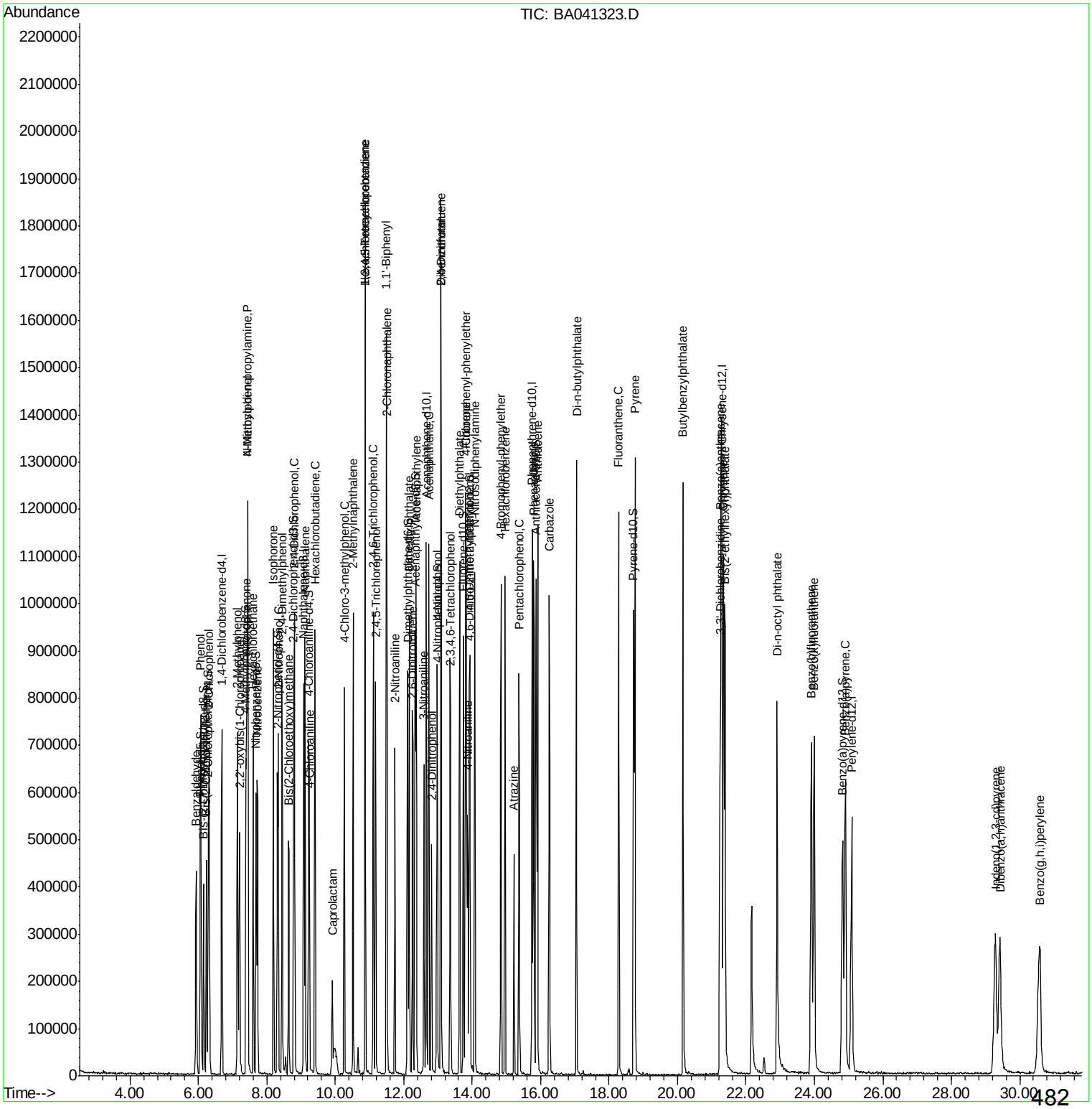
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.111	0.010	-8.2	25.0
Bis(2-Chloroethyl)ether-d8	0.821	0.744	0.010	-9.4	25.0
2-Chlorophenol-d4	1.029	0.944	0.010	-8.2	25.0
4-Methylphenol-d8	0.822	0.805	0.010	-2.0	25.0
Nitrobenzene-d5	0.177	0.165	0.010	-7.0	25.0
2-Nitrophenol-d4	0.218	0.218	0.010	-0.1	25.0
2,4-Dichlorophenol-d3	0.403	0.386	0.010	-4.2	25.0
4-Chloroaniline-d4	0.399	0.399	0.010	0.0	40.0
Dimethylphthalate-d6	1.332	1.471	0.010	10.4	40.0
Acenaphthylene-d8	1.619	1.689	0.010	4.3	25.0
4-Nitrophenol-d4	0.271	0.269	0.010	-0.7	40.0
Fluorene-d10	1.071	1.060	0.010	-1.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.172	0.010	-16.8	40.0
Anthracene-d10	0.957	0.900	0.010	-6.0	25.0
Pyrene-d10	0.874	0.894	0.010	2.2	25.0
Benzo(a)pyrene-d12	1.089	1.006	0.010	-7.6	25.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

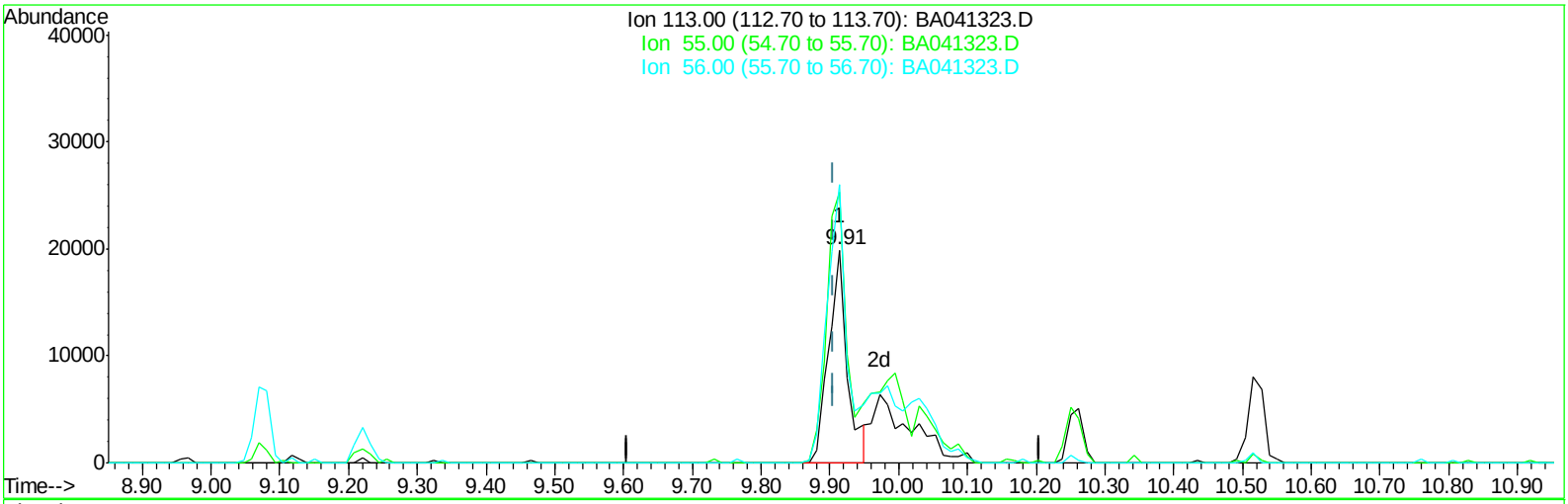
Quant Time: Oct 20 16:34:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

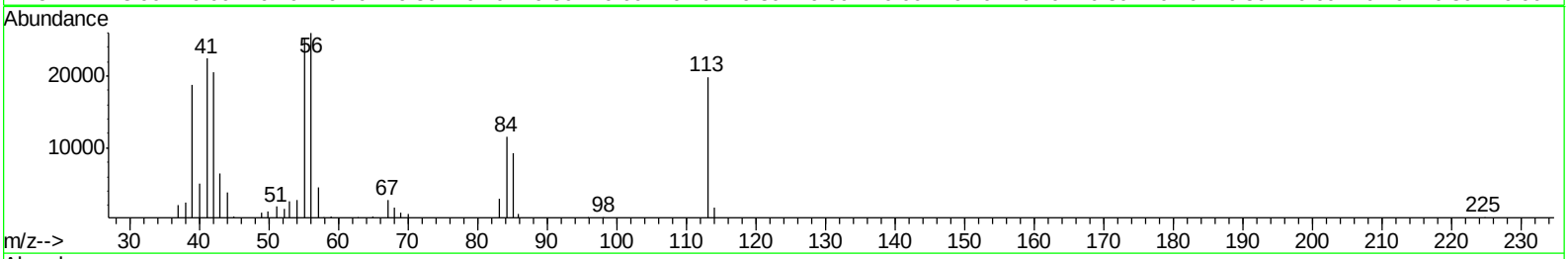


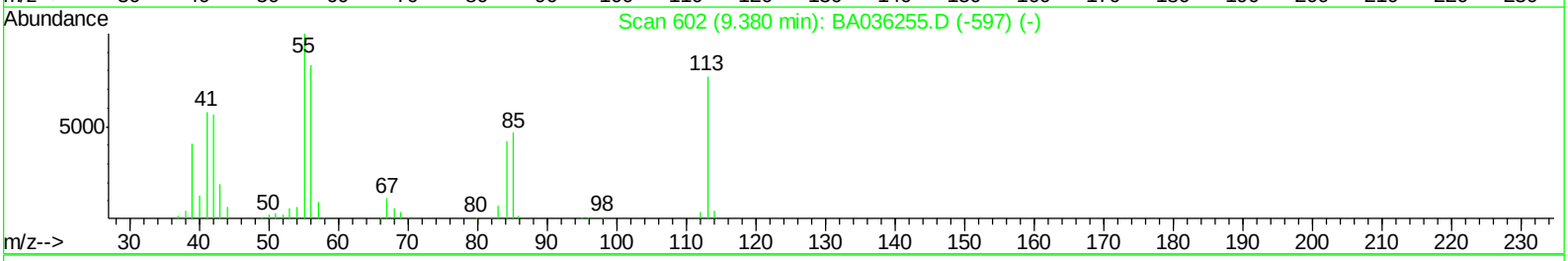
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(30) Caprolactam

9.914min (+0.008) 13.21ng/ul

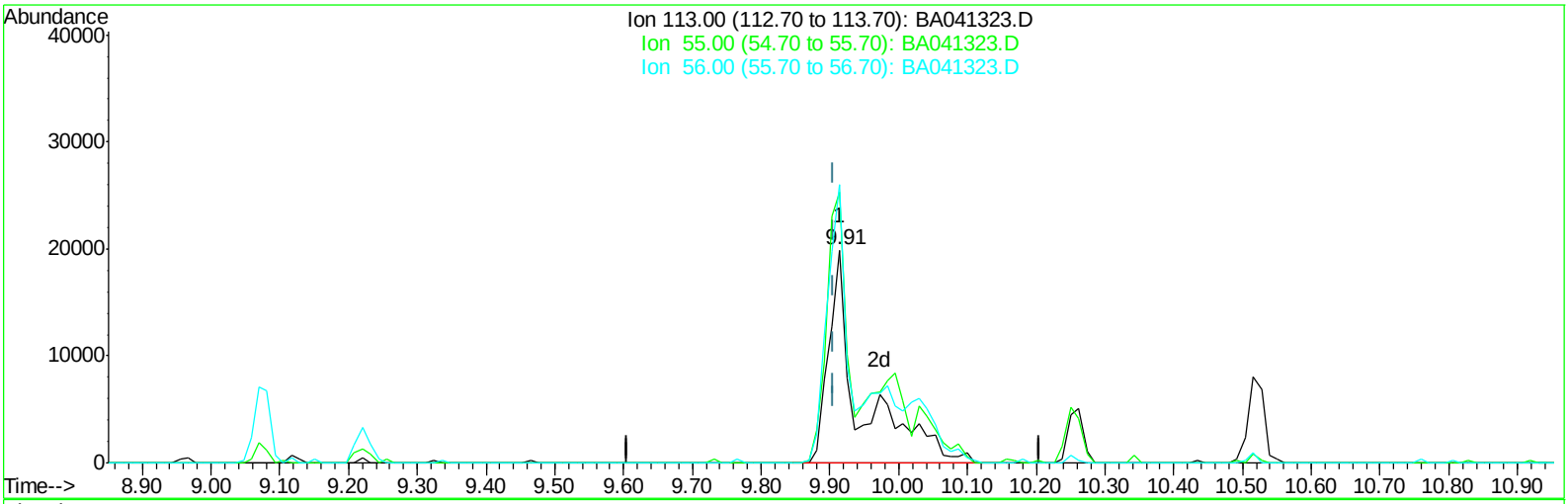
response 38226

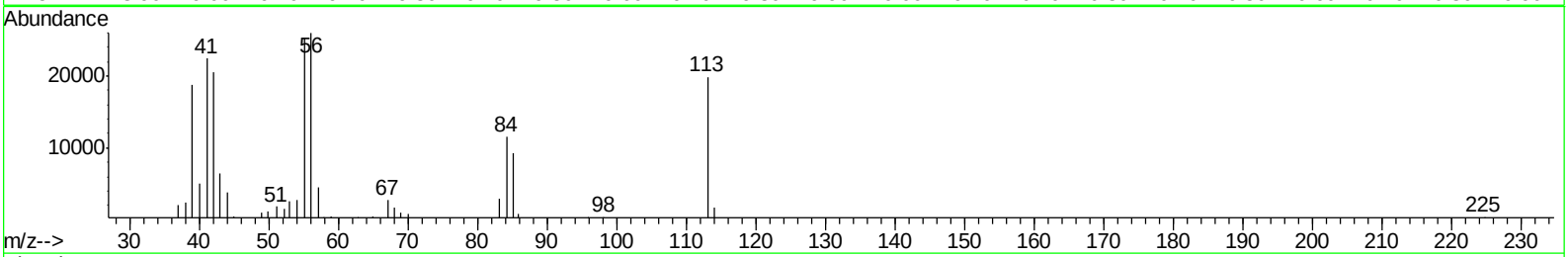
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	127.33
56.00	121.80	130.88
0.00	0.00	0.00

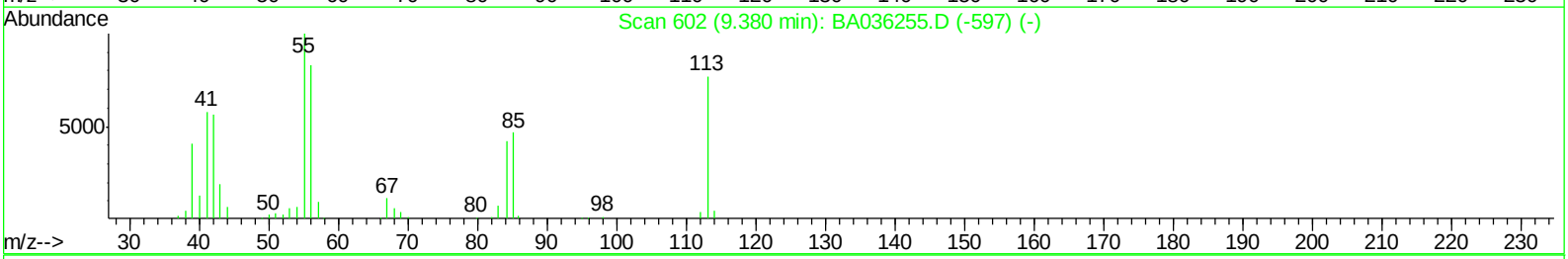
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(30) Caprolactam

9.914min (+0.008) 22.09ng/ul m

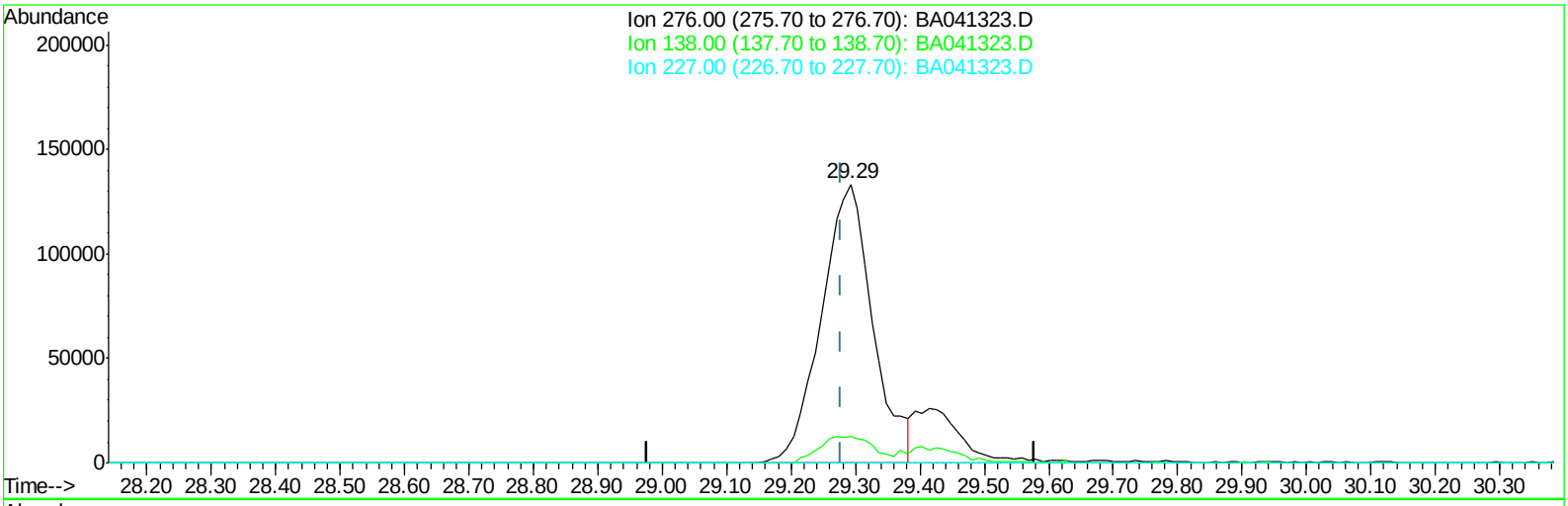
response 63944

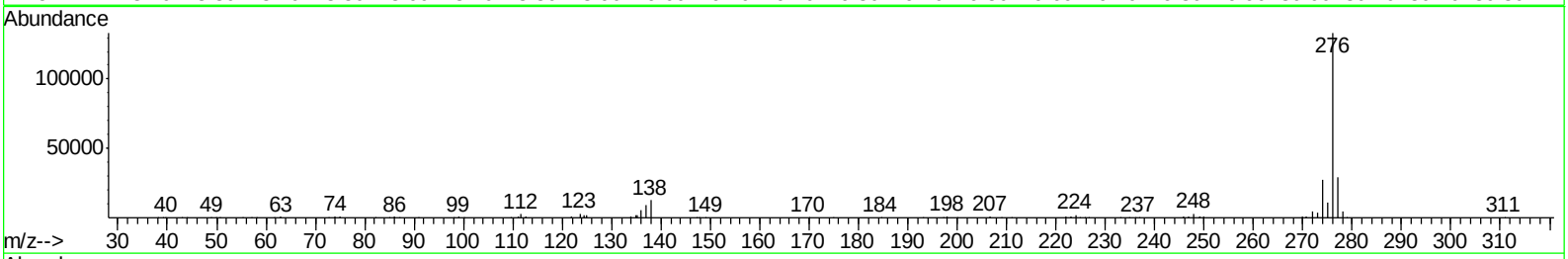
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	127.33
56.00	121.80	130.88
0.00	0.00	0.00

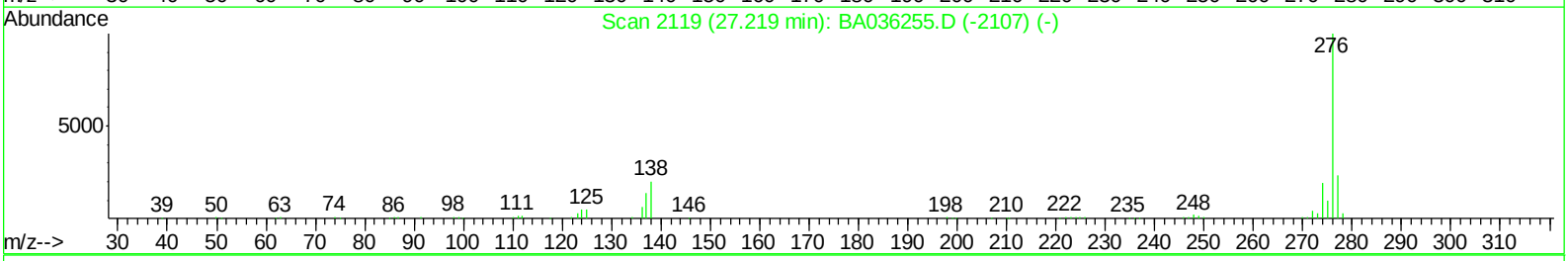
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(87) Indeno(1,2,3-cd)pyrene

29.293min (+0.015) 17.94ng/ul

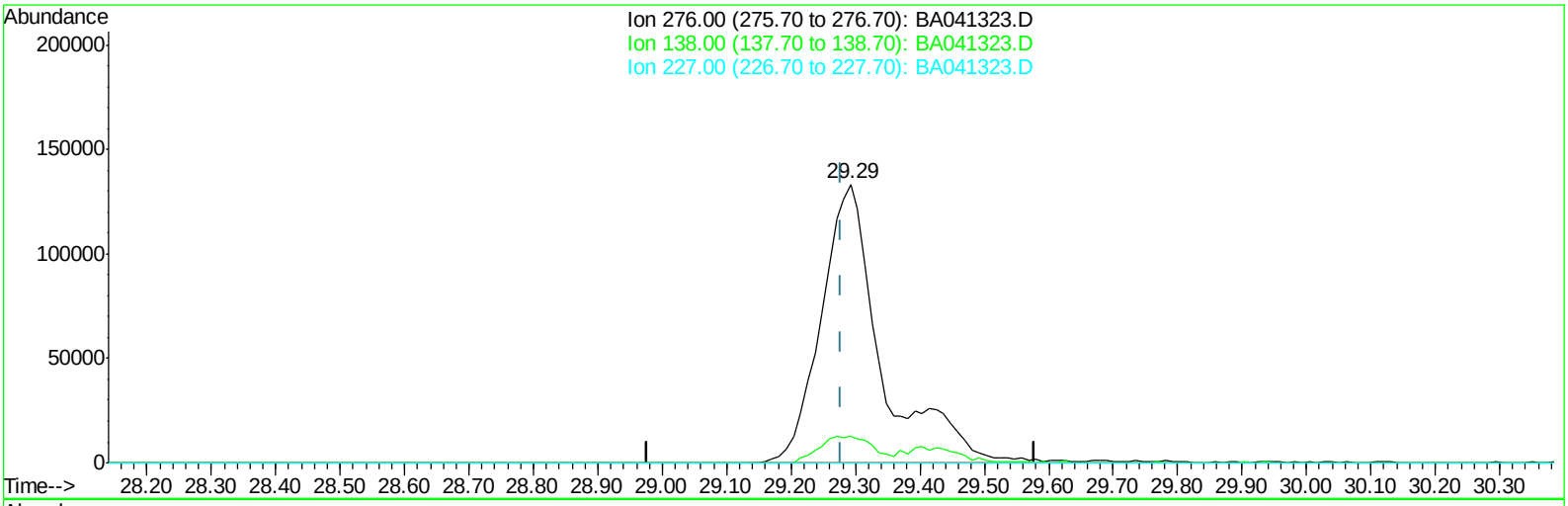
response 744128

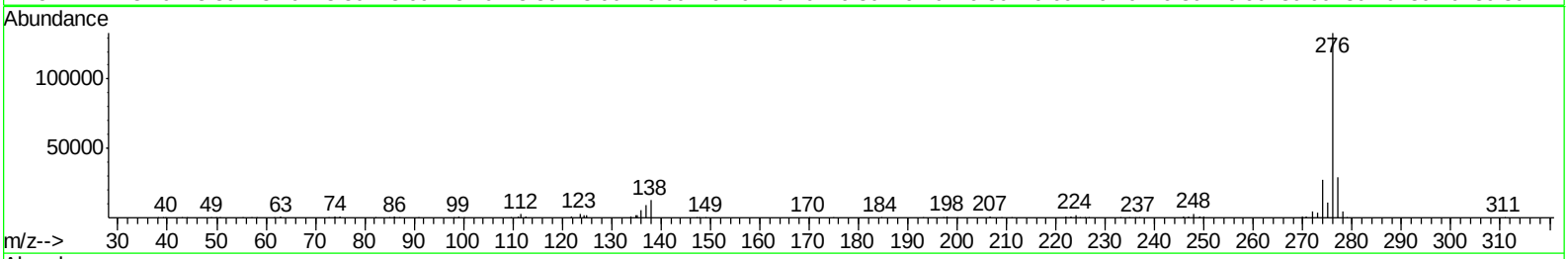
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	9.71
227.00	0.00	0.20#
0.00	0.00	0.00

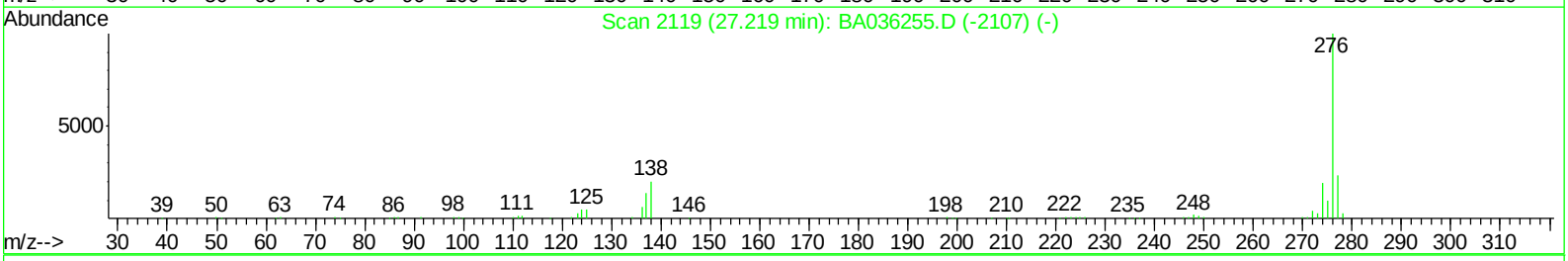
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(87) Indeno(1,2,3-cd)pyrene

29.293min (+0.015) 20.95ng/ul m

response 869065

Ion	Exp%	Act%
276.00	100	100
138.00	10.20	9.71
227.00	0.00	0.20#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:34:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	185060	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	583337	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.66	164	404056	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.75	188	791573	20.00	ng/ul	0.00
73) Chrysene-d12	21.30	240	920652	20.00	ng/ul	0.00
81) Perylene-d12	25.09	264	786196	20.00	ng/ul	0.01
System Monitoring Compounds						
3) Phenol-d5	6.05	99	205622	18.35	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.15	67	137597	18.11	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	174747	18.35	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	149024	19.60	ng/ul	0.00
17) Nitrobenzene-d5	7.68	128	96072	18.60	ng/ul	0.00
20) 2-Nitrophenol-d4	8.31	143	127005	19.98	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.78	165	225205	19.14	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	232647	20.00	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	594259	22.08	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	682506	20.86	ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	108744	19.83	ng/ul	0.00
55) Fluorene-d10	13.74	176	428391	19.79	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	136324	16.64	ng/ul	0.00
68) Anthracene-d10	15.87	188	712422	18.80	ng/ul	0.00
74) Pyrene-d10	18.71	212	822650	20.45	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	790769	18.47	ng/ul	0.00
Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	129126	25.82	ng/ul	94
4) Phenol	6.07	94	230089	18.93	ng/ul#	90
6) Bis(2-Chloroethyl)ether	6.23	93	175567	18.04	ng/ul	95
8) 2-Chlorophenol	6.31	128	209936	19.49	ng/ul	95
9) 2-Methylphenol	7.14	108	162240	19.25	ng/ul	94
10) 2,2'-oxybis(1-Chloropropan	7.20	45	280236	19.42	ng/ul	95
12) Acetophenone	7.41	105	271785	18.28	ng/ul	84
13) N-Nitroso-di-n-propylamine	7.44	70	151932	20.04	ng/ul	95
14) 4-Methylphenol	7.44	108	159942	18.11	ng/ul	82
15) Hexachloroethane	7.60	117	117874	19.85	ng/ul	97
18) Nitrobenzene	7.72	77	254260	20.95	ng/ul	91
19) Isophorone	8.19	82	497075	21.24	ng/ul	98
21) 2-Nitrophenol	8.33	139	134978	19.78	ng/ul	96
22) 2,4-Dimethylphenol	8.45	107	216187	19.20	ng/ul	91
23) Bis(2-Chloroethoxy)methane	8.64	93	237079	20.60	ng/ul	97
25) 2,4-Dichlorophenol	8.80	162	238169	19.99	ng/ul#	95
26) Naphthalene	9.12	128	522219	19.78	ng/ul	98
28) 4-Chloroaniline	9.24	127	151856	19.75	ng/ul	92
29) Hexachlorobutadiene	9.41	225	186137	20.63	ng/ul	88
30) Caprolactam	9.91	113	63944m	22.09	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	205026	19.92	ng/ul	93
32) 2-Methylnaphthalene	10.52	142	385258	18.64	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	335677	22.21	ng/ul#	94
35) Hexachlorocyclopentadiene	10.87	237	210179	20.04	ng/ul	93

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:34:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.11	196	179216	19.66 ng/ul	99
37) 2,4,5-Trichlorophenol	11.18	196	207644	22.08 ng/ul	88
38) 1,1'-Biphenyl	11.50	154	567937	19.98 ng/ul	97
39) 2-Chloronaphthalene	11.51	162	500951	20.47 ng/ul	94
40) 2-Nitroaniline	11.74	65	167927	22.13 ng/ul	91
42) Dimethylphthalate	12.16	163	595057	20.28 ng/ul#	96
43) 2,6-Dinitrotoluene	12.27	165	148346	20.01 ng/ul	92
45) Acenaphthylene	12.36	152	643641	20.02 ng/ul	100
46) 3-Nitroaniline	12.59	138	125478	21.52 ng/ul	88
47) Acenaphthene	12.73	153	432781	20.44 ng/ul	98
48) 2,4-Dinitrophenol	12.81	184	99279	16.31 ng/ul	87
50) 4-Nitrophenol	12.98	109	135344	20.58 ng/ul	92
51) Dibenzofuran	13.09	168	630647	19.98 ng/ul	98
52) 2,4-Dinitrotoluene	13.09	165	192373	19.85 ng/ul	89
53) 2,3,4,6-Tetrachlorophenol	13.37	232	198766	22.30 ng/ul#	86
54) Diethylphthalate	13.63	149	630948	22.14 ng/ul	97
56) Fluorene	13.81	166	554334	21.28 ng/ul#	93
57) 4-Chlorophenyl-phenylether	13.83	204	295816	21.33 ng/ul#	89
58) 4-Nitroaniline	13.86	138	131548	28.94 ng/ul	97
61) 4,6-Dinitro-2-methylphenol	13.93	198	157398	18.68 ng/ul#	88
62) N-Nitrosodiphenylamine	14.08	169	401902	17.80 ng/ul#	92
63) 4-Bromophenyl-phenylether	14.84	248	189288	19.46 ng/ul	96
64) Hexachlorobenzene	14.96	284	237699	20.96 ng/ul	95
65) Atrazine	15.22	200	85185	21.36 ng/ul	94
66) Pentachlorophenol	15.37	266	168490	19.43 ng/ul	93
67) Phenanthrene	15.80	178	788407	19.52 ng/ul	98
69) Anthracene	15.91	178	766707	18.86 ng/ul	97
70) Carbazole	16.25	167	720422	19.60 ng/ul	97
71) Di-n-butylphthalate	17.05	149	1045925	19.87 ng/ul	99
72) Fluoranthene	18.29	202	949056	19.81 ng/ul#	99
75) Pyrene	18.76	202	1026390	20.09 ng/ul	98
76) Butylbenzylphthalate	20.16	149	486716	19.66 ng/ul#	97
77) 3,3'-Dichlorobenzidine	21.24	252	303255	20.37 ng/ul	95
78) Benzo(a)anthracene	21.26	228	991805	20.31 ng/ul	94
79) Bis(2-ethylhexyl)phthalate	21.39	149	537983	20.77 ng/ul	97
80) Chrysene	21.34	228	858858	20.72 ng/ul	96
82) Di-n-octyl phthalate	22.90	149	985656	19.70 ng/ul	100
83) Benzo(b)fluoranthene	23.91	252	958419	18.66 ng/ul	96
84) Benzo(k)fluoranthene	23.99	252	874613	20.02 ng/ul	100
86) Benzo(a)pyrene	24.91	252	897050	20.26 ng/ul	97
87) Indeno(1,2,3-cd)pyrene	29.29	276	869065m	20.95 ng/ul	
88) Dibenzo(a,h)anthracene	29.43	278	614970	19.31 ng/ul	98
89) Benzo(g,h,i)perylene	30.59	276	769764	18.34 ng/ul#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 01:01

Lab File ID: BA041337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.772	0.010	42.9	50.0
Phenol	1.314	1.368	0.010	4.1	50.0
Bis(2-Chloroethyl)ether	1.052	1.180	0.010	12.2	50.0
2-Chlorophenol	1.164	1.211	0.010	4.1	50.0
2-Methylphenol	0.911	1.006	0.010	10.4	50.0
2,2-oxybis(1-Chloropropane)	1.559	1.713	0.010	9.9	50.0
Acetophenone	1.607	1.635	0.010	1.8	50.0
4-Methylphenol	0.954	1.064	0.010	11.5	50.0
N-Nitroso-di-n-propylamine	0.819	0.940	0.010	14.7	50.0
Hexachloroethane	0.642	0.668	0.010	4.1	50.0
Nitrobenzene	0.416	0.399	0.010	-4.1	50.0
Isophorone	0.802	0.802	0.010	0.0	50.0
2-Nitrophenol	0.234	0.220	0.010	-5.8	50.0
2,4-Dimethylphenol	0.386	0.379	0.010	-1.9	50.0
Bis(2-Chloroethoxy)methane	0.395	0.395	0.010	0.1	50.0
2,4-Dichlorophenol	0.409	0.409	0.010	0.0	50.0
Naphthalene	0.905	0.893	0.010	-1.3	50.0
4-Chloroaniline	0.264	0.280	0.010	6.0	50.0
Hexachlorobutadiene	0.309	0.317	0.010	2.4	50.0
Caprolactam	0.099	0.109	0.010	9.8	50.0
4-Chloro-3-methylphenol	0.353	0.366	0.010	3.6	50.0
2-Methylnaphthalene	0.709	0.657	0.010	-7.4	50.0
Hexachlorocyclopentadiene	0.519	0.431	0.010	-17.0	50.0
2,4,6-Trichlorophenol	0.451	0.432	0.010	-4.1	50.0
2,4,5-Trichlorophenol	0.466	0.475	0.010	2.0	50.0
1,1-Biphenyl	1.407	1.445	0.010	2.7	50.0
2-Chloronaphthalene	1.211	1.179	0.010	-2.7	50.0
2-Nitroaniline	0.376	0.379	0.010	0.8	50.0
Dimethylphthalate	1.452	1.426	0.010	-1.8	50.0
2,6-Dinitrotoluene	0.367	0.365	0.010	-0.7	50.0
Acenaphthylene	1.591	1.594	0.010	0.2	50.0
3-Nitroaniline	0.289	0.323	0.010	11.9	50.0
Acenaphthene	1.048	1.081	0.010	3.2	50.0
2,4-Dinitrophenol	0.301	0.233	0.010	-22.6	50.0
4-Nitrophenol	0.326	0.306	0.010	-6.2	50.0
Dibenzofuran	1.562	1.555	0.010	-0.4	50.0
2,4-Dinitrotoluene	0.480	0.477	0.010	-0.6	50.0
Diethylphthalate	1.411	1.443	0.010	2.2	50.0
Fluorene	1.290	1.284	0.010	-0.5	50.0
4-Chlorophenyl-phenylether	0.686	0.700	0.010	2.0	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 01:01

Lab File ID: BA041337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.323	0.010	43.4	50.0
4,6-Dinitro-2-methylphenol	0.213	0.189	0.010	-11.5	50.0
N-Nitrosodiphenylamine[1]	0.571	0.577	0.010	1.0	50.0
1,2,4,5-Tetrachlorobenzene	0.748	0.784	0.010	4.8	50.0
4-Bromophenyl-phenylether	0.246	0.246	0.010	0.0	50.0
Hexachlorobenzene	0.287	0.288	0.010	0.3	50.0
Atrazine	0.101	0.113	0.010	11.5	50.0
Pentachlorophenol	0.219	0.201	0.010	-8.1	50.0
Phenanthrene	1.020	0.994	0.010	-2.6	50.0
Anthracene	1.027	1.046	0.010	1.8	50.0
Carbazole	0.929	0.926	0.010	-0.4	50.0
Di-n-butylphthalate	1.330	1.344	0.010	1.1	50.0
Fluoranthene	1.211	1.186	0.010	-2.0	50.0
Pyrene	1.110	1.073	0.010	-3.4	50.0
Butylbenzylphthalate	0.538	0.579	0.010	7.5	50.0
3,3-Dichlorobenzidine	0.323	0.352	0.010	8.9	50.0
Benzo(a)anthracene	1.061	1.083	0.010	2.0	50.0
Chrysene	0.901	0.965	0.010	7.1	50.0
Bis(2-ethylhexyl)phthalate	0.563	0.644	0.010	14.4	50.0
Di-n-octyl phthalate	1.273	1.323	0.010	4.0	50.0
Benzo(b)fluoranthene	1.306	1.131	0.010	-13.4	50.0
Benzo(k)fluoranthene	1.111	1.161	0.010	4.5	50.0
Benzo(a)pyrene	1.126	1.089	0.010	-3.3	50.0
Indeno(1,2,3-cd)pyrene	1.055	0.993	0.010	-5.9	50.0
Dibenzo(a,h)anthracene	0.810	0.779	0.010	-3.8	50.0
Benzo(g,h,i)perylene	1.068	0.851	0.010	-20.3	50.0
2,3,4,6-Tetrachlorophenol	0.441	0.457	0.010	3.5	50.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 01:01

Lab File ID: BA041337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

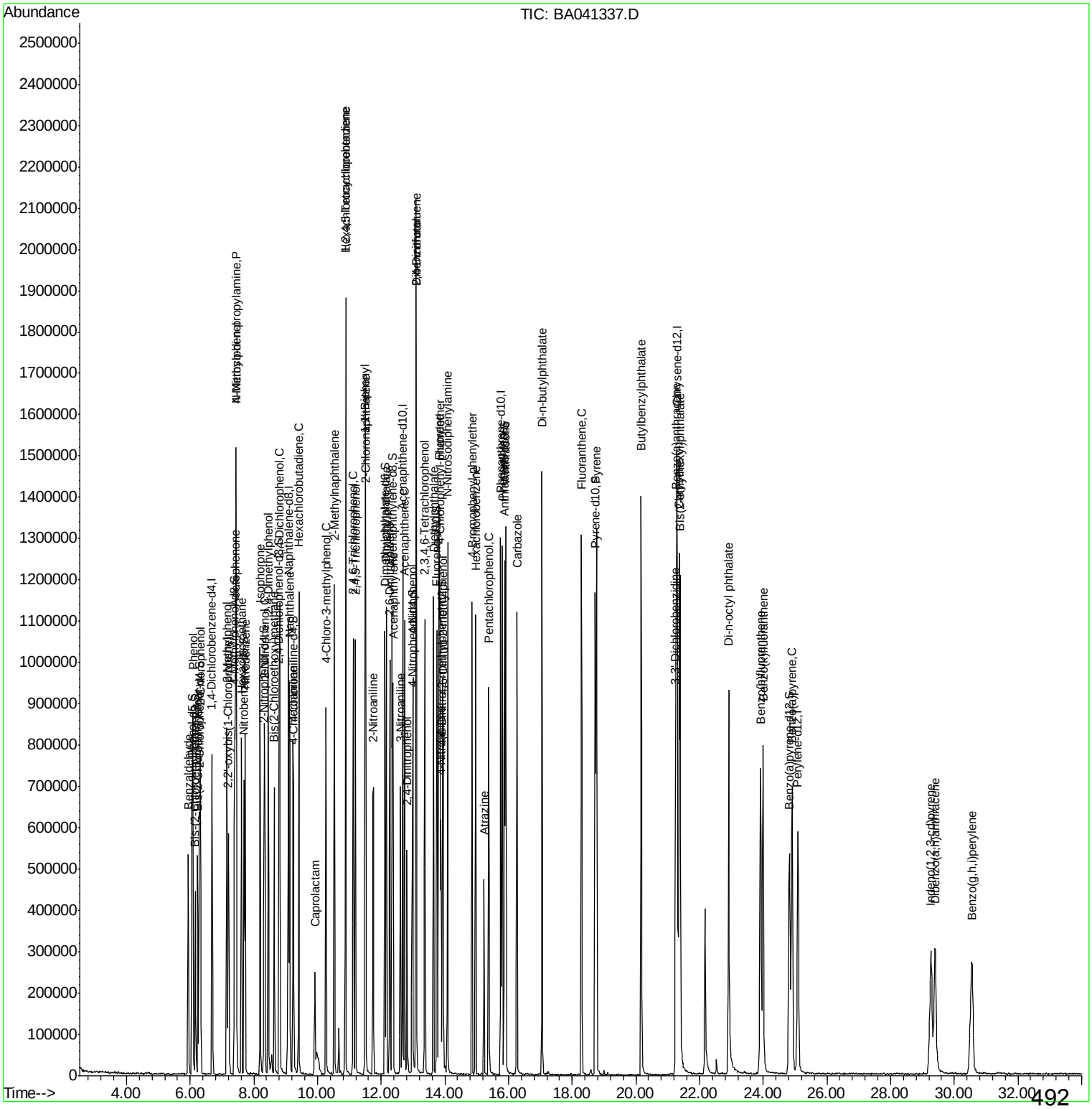
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.256	0.010	3.7	50.0
Bis(2-Chloroethyl)ether-d8	0.821	0.834	0.010	1.6	50.0
2-Chlorophenol-d4	1.029	1.147	0.010	11.4	50.0
4-Methylphenol-d8	0.822	0.921	0.010	12.0	50.0
Nitrobenzene-d5	0.177	0.190	0.010	7.1	50.0
2-Nitrophenol-d4	0.218	0.225	0.010	3.2	50.0
2,4-Dichlorophenol-d3	0.403	0.389	0.010	-3.4	50.0
4-Chloroaniline-d4	0.399	0.389	0.010	-2.5	50.0
Dimethylphthalate-d6	1.332	1.346	0.010	1.0	50.0
Acenaphthylene-d8	1.619	1.627	0.010	0.5	50.0
4-Nitrophenol-d4	0.271	0.261	0.010	-3.5	50.0
Fluorene-d10	1.071	1.030	0.010	-3.8	50.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.177	0.010	-14.4	50.0
Anthracene-d10	0.957	0.951	0.010	-0.7	50.0
Pyrene-d10	0.874	0.887	0.010	1.4	50.0
Benzo(a)pyrene-d12	1.089	0.928	0.010	-14.8	50.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

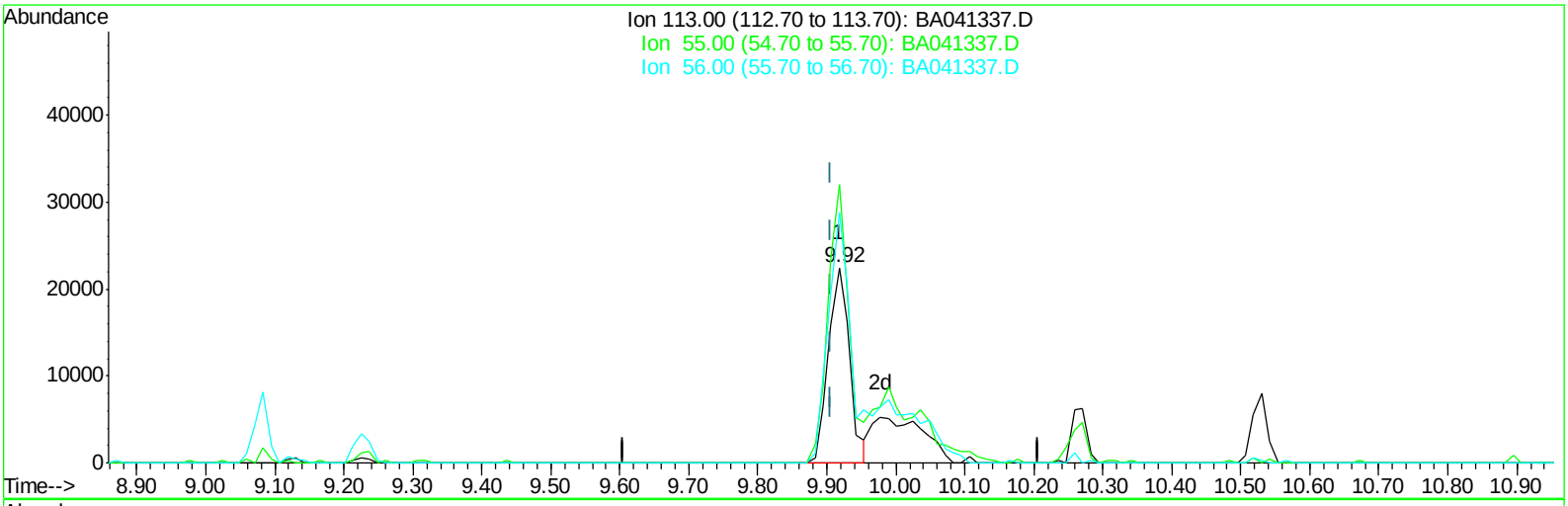
Quant Time: Oct 21 02:36:39 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

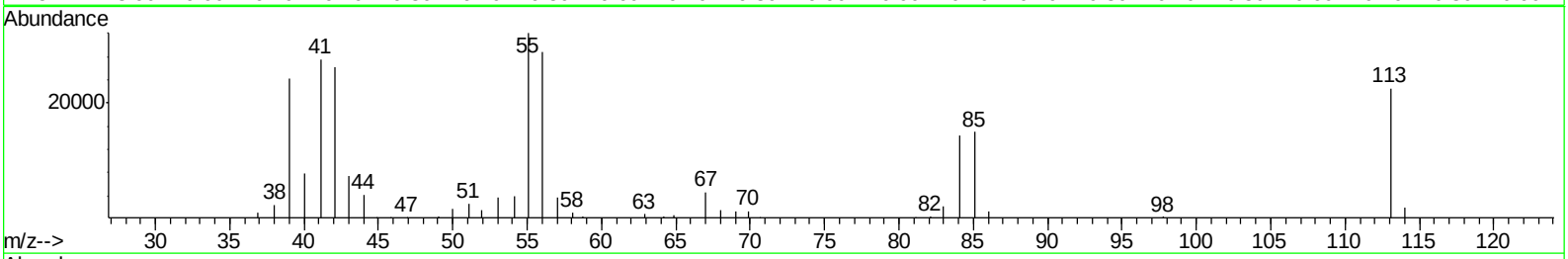


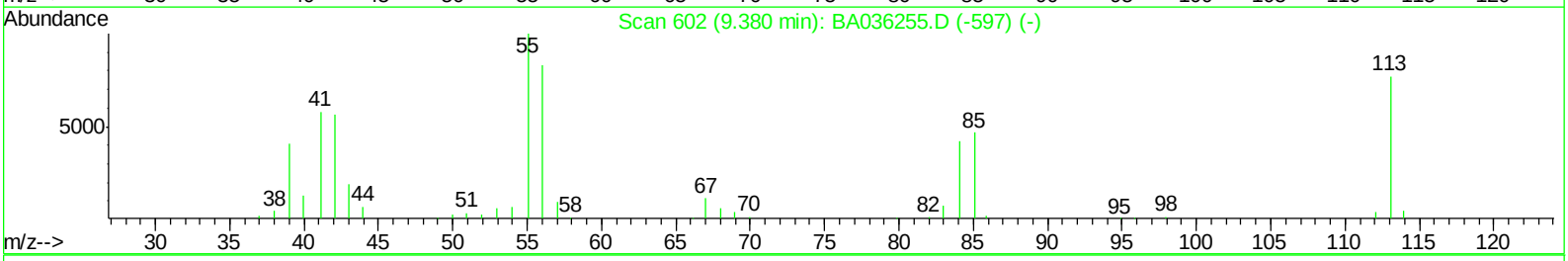
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(30) Caprolactam

9.918min (+0.012) 13.84ng/ul

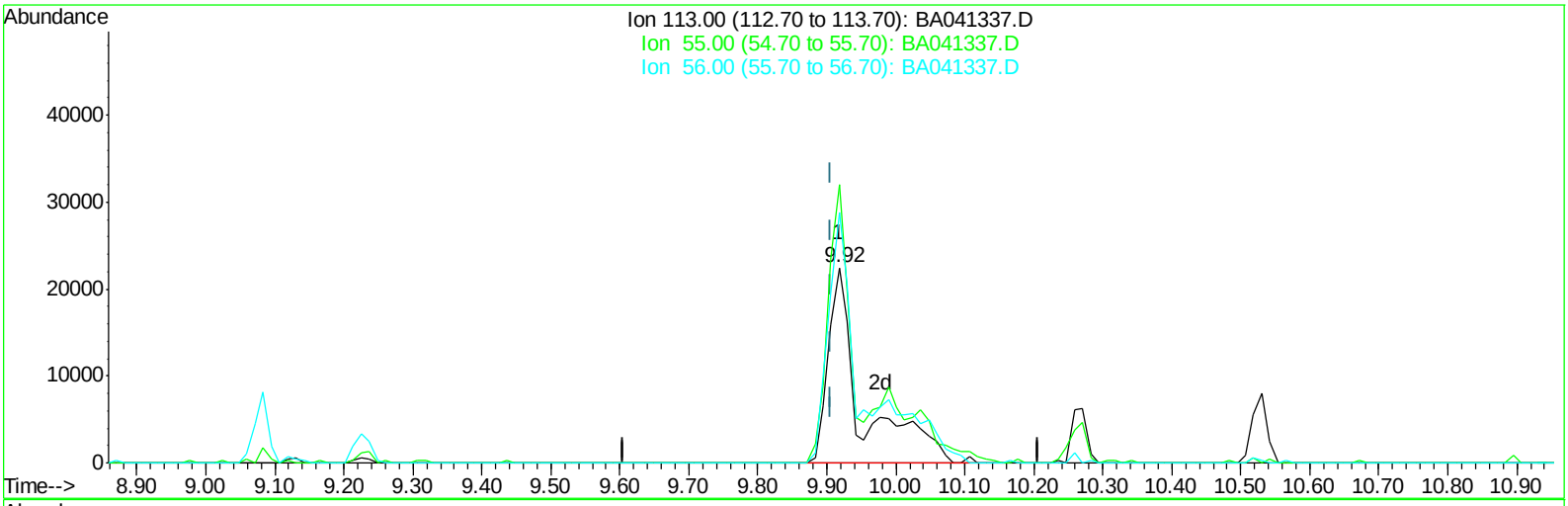
response 47815

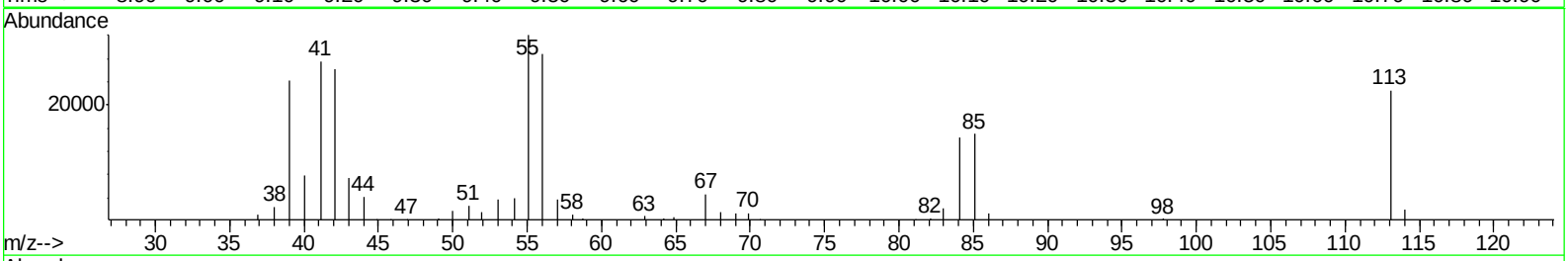
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	142.37
56.00	121.80	128.32
0.00	0.00	0.00

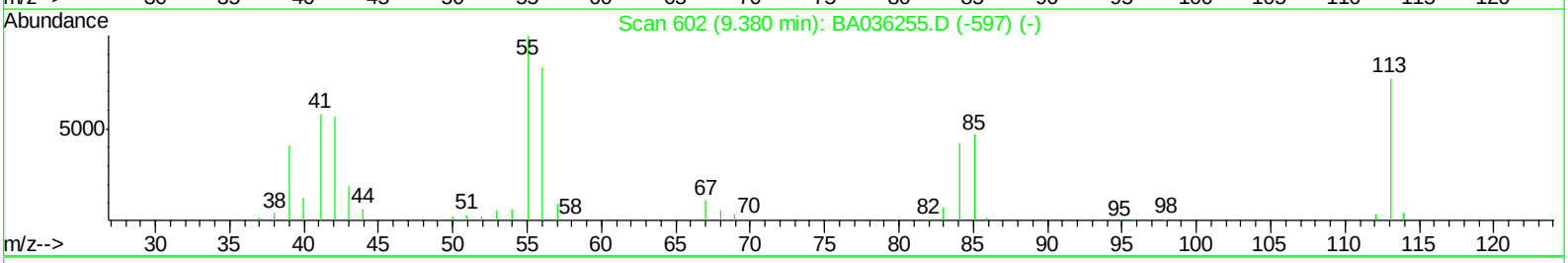
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(30) Caprolactam

9.918min (+0.012) 21.90ng/ul m

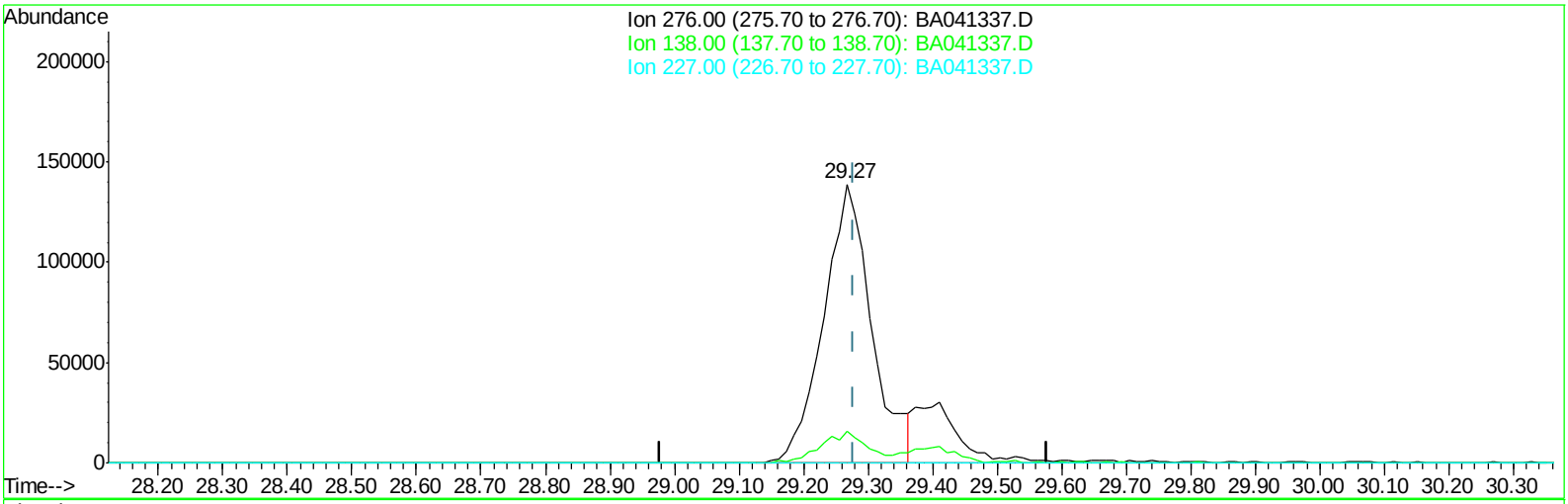
response 75684

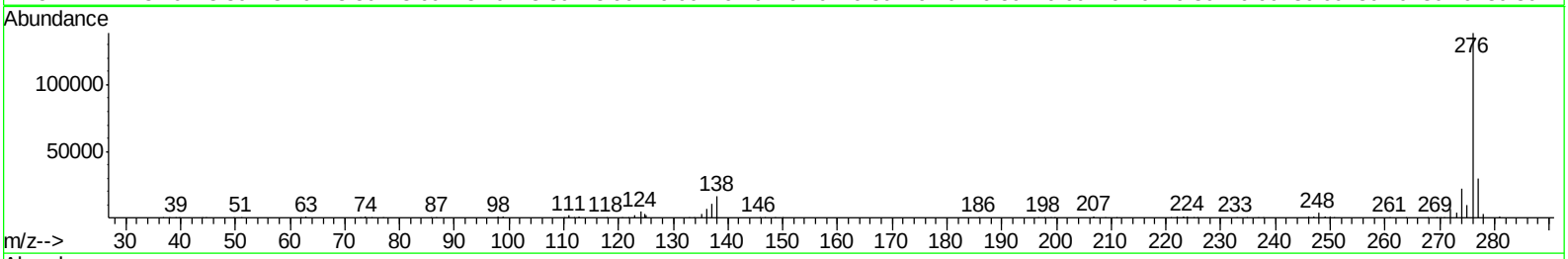
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	142.37
56.00	121.80	128.32
0.00	0.00	0.00

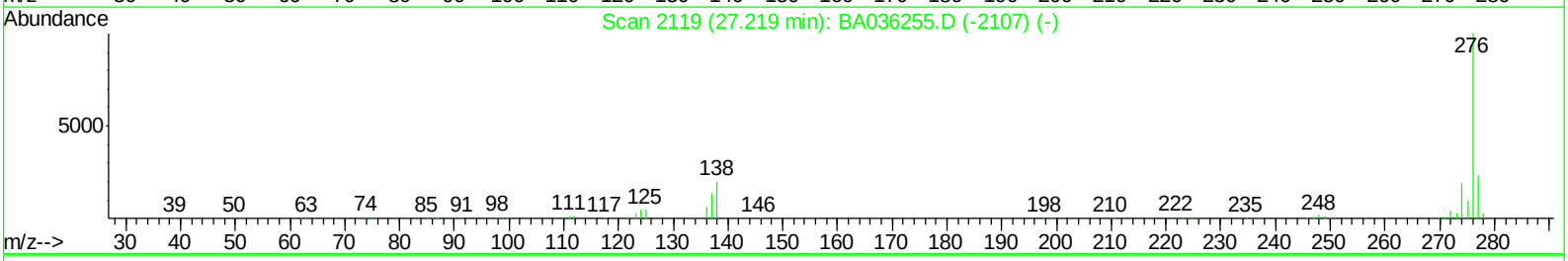
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(87) Indeno(1,2,3-cd)pyrene

29.267min (-0.010) 15.68ng/ul

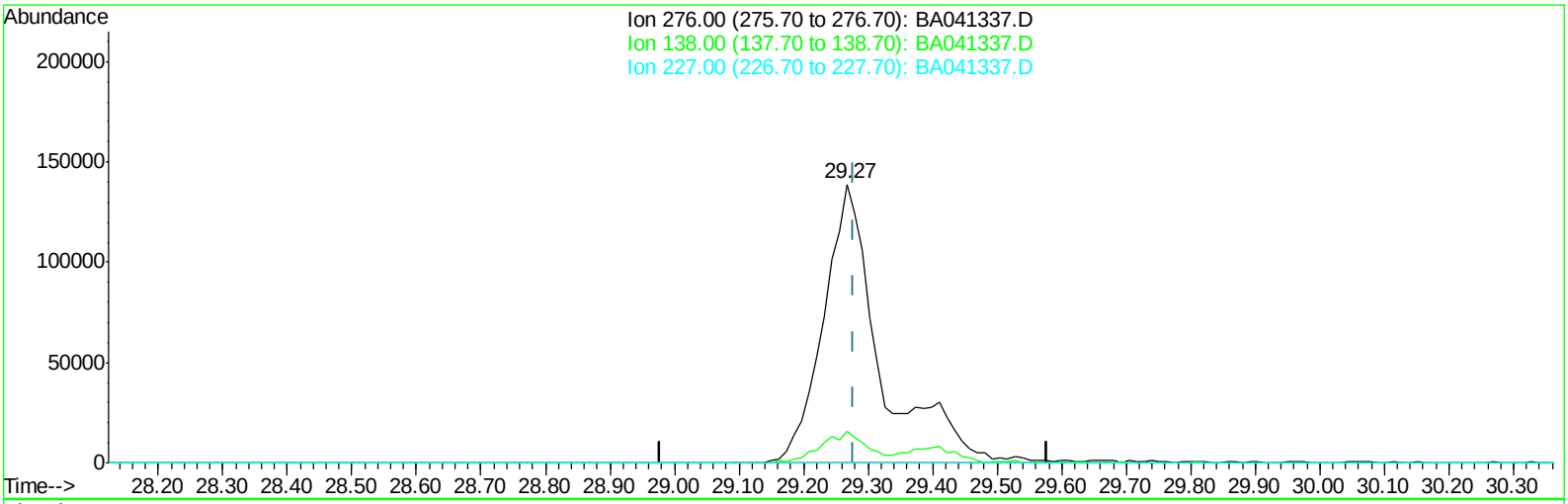
response 719415

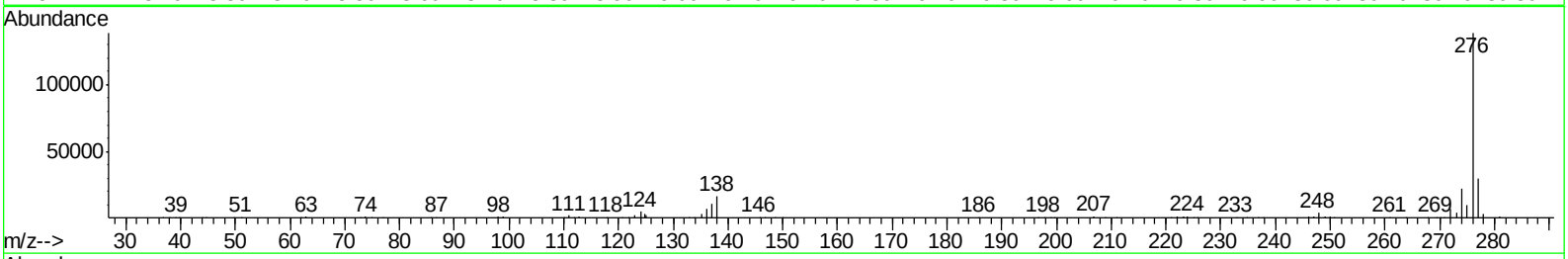
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	11.50
227.00	0.00	0.00
0.00	0.00	0.00

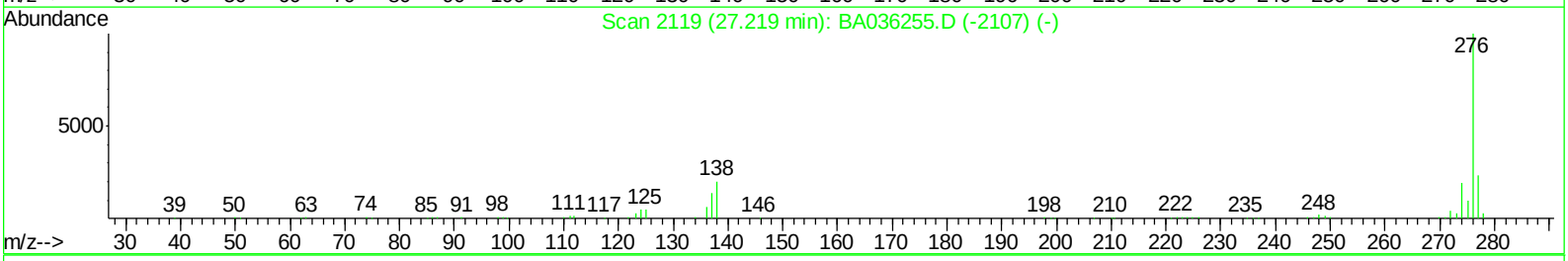
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(87) Indeno(1,2,3-cd)pyrene

29.267min (-0.010) 18.81ng/ul m

response 863212

Ion	Exp%	Act%
276.00	100	100
138.00	10.20	11.50
227.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:36:39 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	204952	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	696443	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.67	164	474813	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.76	188	863100	20.00	ng/ul	0.00
73) Chrysene-d12	21.30	240	1004503	20.00	ng/ul	0.00
81) Perylene-d12	25.08	264	869667	20.00	ng/ul	0.01
System Monitoring Compounds						
3) Phenol-d5	6.06	99	257456	20.75	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	171025	20.33	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	234989	22.28	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	188704	22.41	ng/ul	0.01
17) Nitrobenzene-d5	7.69	128	132016	21.41	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	156627	20.64	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	271015	19.30	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	270842	19.50	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	639088	20.21	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	772727	20.10	ng/ul	0.00
49) 4-Nitrophenol-d4	12.98	143	124159	19.26	ng/ul	0.02
55) Fluorene-d10	13.75	176	489081	19.23	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	153010	17.13	ng/ul	0.00
68) Anthracene-d10	15.88	188	820481	19.86	ng/ul	0.01
74) Pyrene-d10	18.73	212	890552	20.29	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	807182	17.04	ng/ul	0.00
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	158206	28.57	ng/ul	89
4) Phenol	6.08	94	280461	20.83	ng/ul#	93
6) Bis(2-Chloroethyl)ether	6.23	93	241834	22.43	ng/ul	88
8) 2-Chlorophenol	6.32	128	248251	20.81	ng/ul	96
9) 2-Methylphenol	7.15	108	206171	22.08	ng/ul	96
10) 2,2'-oxybis(1-Chloropropan	7.20	45	351019	21.97	ng/ul	97
12) Acetophenone	7.42	105	335163	20.35	ng/ul	99
13) N-Nitroso-di-n-propylamine	7.45	70	192574	22.93	ng/ul	95
14) 4-Methylphenol	7.45	108	218059	22.30	ng/ul	89
15) Hexachloroethane	7.61	117	136947	20.82	ng/ul	99
18) Nitrobenzene	7.73	77	277753	19.17	ng/ul	96
19) Isophorone	8.20	82	558734	20.00	ng/ul	99
21) 2-Nitrophenol	8.34	139	153480	18.84	ng/ul	96
22) 2,4-Dimethylphenol	8.46	107	263625	19.61	ng/ul	96
23) Bis(2-Chloroethoxy)methane	8.65	93	275298	20.04	ng/ul	95
25) 2,4-Dichlorophenol	8.81	162	284873	20.02	ng/ul#	93
26) Naphthalene	9.12	128	622082	19.74	ng/ul	99
28) 4-Chloroaniline	9.25	127	194937	21.24	ng/ul	99
29) Hexachlorobutadiene	9.41	225	220470	20.46	ng/ul	99
30) Caprolactam	9.92	113	75684m	21.90	ng/ul	
31) 4-Chloro-3-methylphenol	10.27	107	254721	20.73	ng/ul#	84
32) 2-Methylnaphthalene	10.53	142	457256	18.53	ng/ul	85
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	372368	20.97	ng/ul#	94
35) Hexachlorocyclopentadiene	10.88	237	204413	16.58	ng/ul	97

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:36:39 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	205283	19.16 ng/ul	94
37) 2,4,5-Trichlorophenol	11.19	196	225662	20.42 ng/ul	98
38) 1,1'-Biphenyl	11.50	154	686014	20.54 ng/ul	96
39) 2-Chloronaphthalene	11.52	162	559568	19.46 ng/ul	95
40) 2-Nitroaniline	11.75	65	180019	20.19 ng/ul	95
42) Dimethylphthalate	12.16	163	677307	19.65 ng/ul	99
43) 2,6-Dinitrotoluene	12.27	165	173096	19.87 ng/ul#	87
45) Acenaphthylene	12.38	152	756859	20.04 ng/ul	97
46) 3-Nitroaniline	12.60	138	153568	22.41 ng/ul	95
47) Acenaphthene	12.74	153	513497	20.63 ng/ul	96
48) 2,4-Dinitrophenol	12.81	184	110599	15.46 ng/ul	95
50) 4-Nitrophenol	12.99	109	145237	18.79 ng/ul	92
51) Dibenzofuran	13.10	168	738325	19.91 ng/ul	99
52) 2,4-Dinitrotoluene	13.10	165	226582	19.89 ng/ul	95
53) 2,3,4,6-Tetrachlorophenol	13.37	232	216775	20.70 ng/ul	97
54) Diethylphthalate	13.64	149	684925	20.45 ng/ul	98
56) Fluorene	13.82	166	609671	19.91 ng/ul	94
57) 4-Chlorophenyl-phenylether	13.84	204	332399	20.40 ng/ul	94
58) 4-Nitroaniline	13.88	138	153221	28.68 ng/ul	93
61) 4,6-Dinitro-2-methylphenol	13.95	198	162700	17.71 ng/ul#	94
62) N-Nitrosodiphenylamine	14.09	169	497807	20.22 ng/ul	92
63) 4-Bromophenyl-phenylether	14.85	248	212419	20.03 ng/ul	93
64) Hexachlorobenzene	14.97	284	248471	20.09 ng/ul#	92
65) Atrazine	15.23	200	97170	22.35 ng/ul#	81
66) Pentachlorophenol	15.38	266	173653	18.37 ng/ul	93
67) Phenanthrene	15.81	178	857798	19.48 ng/ul	97
69) Anthracene	15.91	178	902548	20.37 ng/ul	98
70) Carbazole	16.26	167	798901	19.94 ng/ul	96
71) Di-n-butylphthalate	17.06	149	1160260	20.21 ng/ul	98
72) Fluoranthene	18.29	202	1023800	19.60 ng/ul#	98
75) Pyrene	18.76	202	1077579	19.33 ng/ul	99
76) Butylbenzylphthalate	20.17	149	581200	21.52 ng/ul	95
77) 3,3'-Dichlorobenzidine	21.24	252	353377	21.76 ng/ul#	92
78) Benzo(a)anthracene	21.27	228	1087404	20.41 ng/ul	99
79) Bis(2-ethylhexyl)phthalate	21.39	149	646821	22.89 ng/ul	97
80) Chrysene	21.35	228	969541	21.43 ng/ul	98
82) Di-n-octyl phthalate	22.91	149	1150941	20.80 ng/ul	100
83) Benzo(b)fluoranthene	23.92	252	983492	17.31 ng/ul#	96
84) Benzo(k)fluoranthene	24.00	252	1009640	20.89 ng/ul	98
86) Benzo(a)pyrene	24.91	252	947223	19.34 ng/ul	97
87) Indeno(1,2,3-cd)pyrene	29.27	276	863212m	18.81 ng/ul	
88) Dibenzo(a,h)anthracene	29.40	278	677452	19.23 ng/ul	100
89) Benzo(g,h,i)perylene	30.56	276	740072	15.94 ng/ul#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 03:04

Lab File ID: BA041340.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA006 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.776	0.010	43.7	40.0
Phenol	1.314	1.307	0.800	-0.5	25.0
Bis(2-Chloroethyl)ether	1.052	1.109	0.700	5.4	25.0
2-Chlorophenol	1.164	1.247	0.800	7.1	25.0
2-Methylphenol	0.911	0.952	0.700	4.5	25.0
2,2-oxybis(1-Chloropropane)	1.559	1.566	0.010	0.5	40.0
Acetophenone	1.607	1.736	0.010	8.0	40.0
4-Methylphenol	0.954	1.040	0.600	9.0	25.0
N-Nitroso-di-n-propylamine	0.819	0.918	0.500	12.1	25.0
Hexachloroethane	0.642	0.650	0.300	1.3	25.0
Nitrobenzene	0.416	0.448	0.200	7.6	25.0
Isophorone	0.802	0.859	0.400	7.2	25.0
2-Nitrophenol	0.234	0.237	0.100	1.4	25.0
2,4-Dimethylphenol	0.386	0.381	0.200	-1.2	25.0
Bis(2-Chloroethoxy)methane	0.395	0.415	0.300	5.1	25.0
2,4-Dichlorophenol	0.409	0.403	0.200	-1.5	25.0
Naphthalene	0.905	0.936	0.700	3.5	25.0
4-Chloroaniline	0.264	0.287	0.010	8.5	40.0
Hexachlorobutadiene	0.309	0.294	0.010	-5.0	40.0
Caprolactam	0.099	0.107	0.010	7.9	40.0
4-Chloro-3-methylphenol	0.353	0.359	0.200	1.7	25.0
2-Methylnaphthalene	0.709	0.683	0.400	-3.7	25.0
Hexachlorocyclopentadiene	0.519	0.430	0.010	-17.2	40.0
2,4,6-Trichlorophenol	0.451	0.424	0.200	-5.9	25.0
2,4,5-Trichlorophenol	0.466	0.476	0.200	2.2	25.0
1,1-Biphenyl	1.407	1.328	0.010	-5.6	40.0
2-Chloronaphthalene	1.211	1.170	0.800	-3.4	25.0
2-Nitroaniline	0.376	0.403	0.010	7.2	40.0
Dimethylphthalate	1.452	1.445	0.010	-0.5	40.0
2,6-Dinitrotoluene	0.367	0.369	0.200	0.6	25.0
Acenaphthylene	1.591	1.632	0.900	2.6	25.0
3-Nitroaniline	0.289	0.321	0.010	11.1	40.0
Acenaphthene	1.048	1.053	0.900	0.5	25.0
2,4-Dinitrophenol	0.301	0.232	0.010	-23.0	40.0
4-Nitrophenol	0.326	0.289	0.010	-11.4	40.0
Dibenzofuran	1.562	1.562	0.800	0.0	25.0
2,4-Dinitrotoluene	0.480	0.468	0.200	-2.6	25.0
Diethylphthalate	1.411	1.406	0.010	-0.4	40.0
Fluorene	1.290	1.293	0.900	0.2	25.0
4-Chlorophenyl-phenylether	0.686	0.676	0.400	-1.5	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 03:04

Lab File ID: BA041340.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA006 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.307	0.010	36.5	40.0
4,6-Dinitro-2-methylphenol	0.213	0.186	0.010	-12.7	40.0
N-Nitrosodiphenylamine[1]	0.571	0.543	0.010	-4.8	40.0
1,2,4,5-Tetrachlorobenzene	0.748	0.726	0.010	-3.0	40.0
4-Bromophenyl-phenylether	0.246	0.252	0.100	2.4	25.0
Hexachlorobenzene	0.287	0.269	0.100	-6.4	25.0
Atrazine	0.101	0.104	0.010	3.4	40.0
Pentachlorophenol	0.219	0.211	0.050	-3.9	25.0
Phenanthrene	1.020	0.990	0.700	-3.0	25.0
Anthracene	1.027	1.061	0.700	3.3	25.0
Carbazole	0.929	0.923	0.010	-0.7	40.0
Di-n-butylphthalate	1.330	1.364	0.010	2.5	40.0
Fluoranthene	1.211	1.201	0.600	-0.8	25.0
Pyrene	1.110	1.065	0.600	-4.1	25.0
Butylbenzylphthalate	0.538	0.552	0.010	2.6	40.0
3,3-Dichlorobenzidine	0.323	0.336	0.010	4.2	40.0
Benzo(a)anthracene	1.061	1.027	0.800	-3.2	25.0
Chrysene	0.901	0.981	0.700	8.8	25.0
Bis(2-ethylhexyl)phthalate	0.563	0.620	0.010	10.2	40.0
Di-n-octyl phthalate	1.273	1.284	0.010	0.9	40.0
Benzo(b)fluoranthene	1.306	1.127	0.700	-13.7	25.0
Benzo(k)fluoranthene	1.111	1.183	0.700	6.5	25.0
Benzo(a)pyrene	1.126	1.074	0.700	-4.6	25.0
Indeno(1,2,3-cd)pyrene	1.055	0.964	0.500	-8.7	25.0
Dibenzo(a,h)anthracene	0.810	0.769	0.400	-5.0	25.0
Benzo(g,h,i)perylene	1.068	0.824	0.500	-22.8	25.0
2,3,4,6-Tetrachlorophenol	0.441	0.451	0.100	2.2	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 03:04

Lab File ID: BA041340.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA006 Init. Calib. Time(s): 14:01 17:16

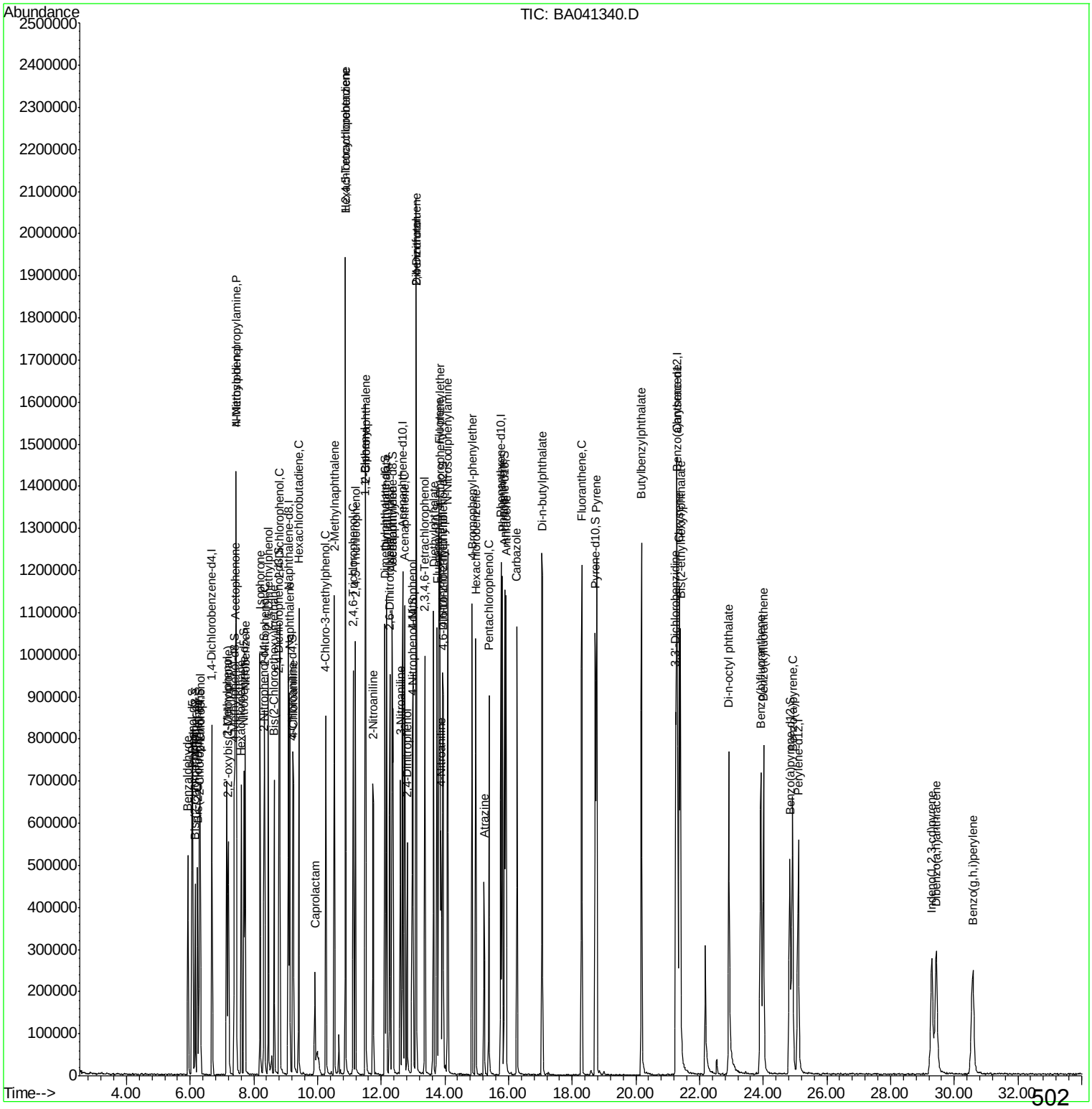
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.215	0.010	0.4	25.0
Bis(2-Chloroethyl)ether-d8	0.821	0.835	0.010	1.7	25.0
2-Chlorophenol-d4	1.029	1.041	0.010	1.1	25.0
4-Methylphenol-d8	0.822	0.903	0.010	9.9	25.0
Nitrobenzene-d5	0.177	0.182	0.010	3.1	25.0
2-Nitrophenol-d4	0.218	0.226	0.010	3.6	25.0
2,4-Dichlorophenol-d3	0.403	0.378	0.010	-6.1	25.0
4-Chloroaniline-d4	0.399	0.391	0.010	-2.1	40.0
Dimethylphthalate-d6	1.332	1.356	0.010	1.8	40.0
Acenaphthylene-d8	1.619	1.645	0.010	1.6	25.0
4-Nitrophenol-d4	0.271	0.255	0.010	-6.0	40.0
Fluorene-d10	1.071	1.016	0.010	-5.1	25.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.178	0.010	-14.0	40.0
Anthracene-d10	0.957	0.916	0.010	-4.3	25.0
Pyrene-d10	0.874	0.843	0.010	-3.6	25.0
Benzo(a)pyrene-d12	1.089	0.947	0.010	-13.0	25.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

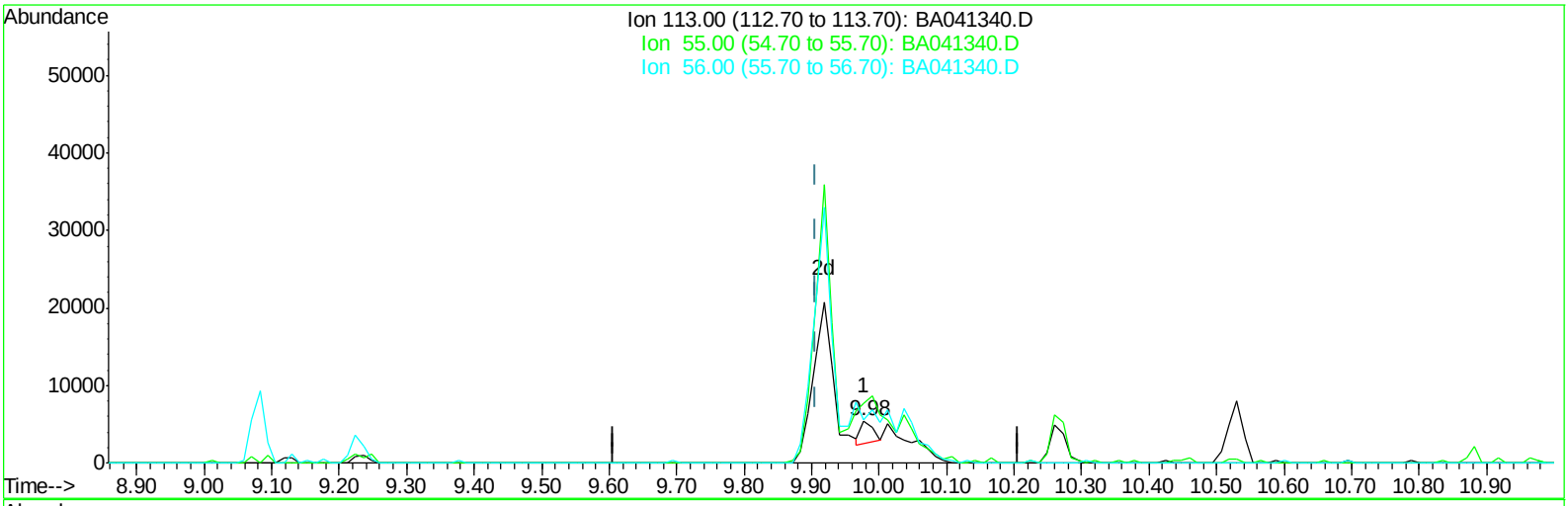
Quant Time: Oct 21 04:17:54 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

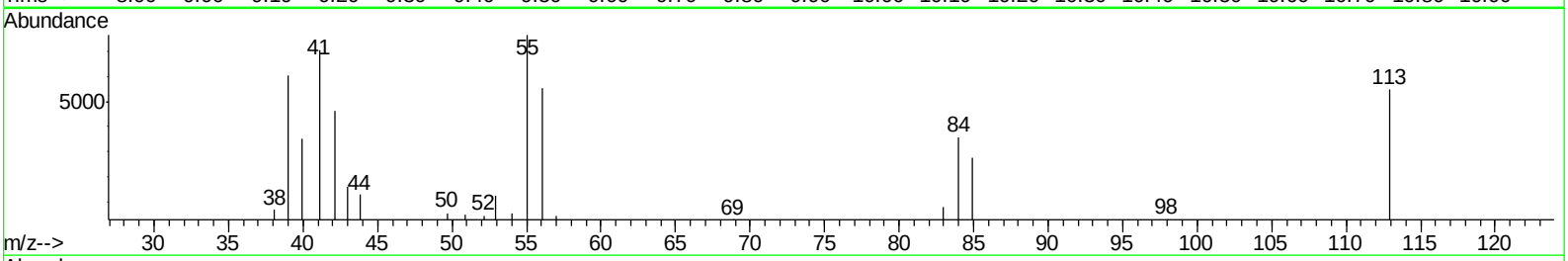


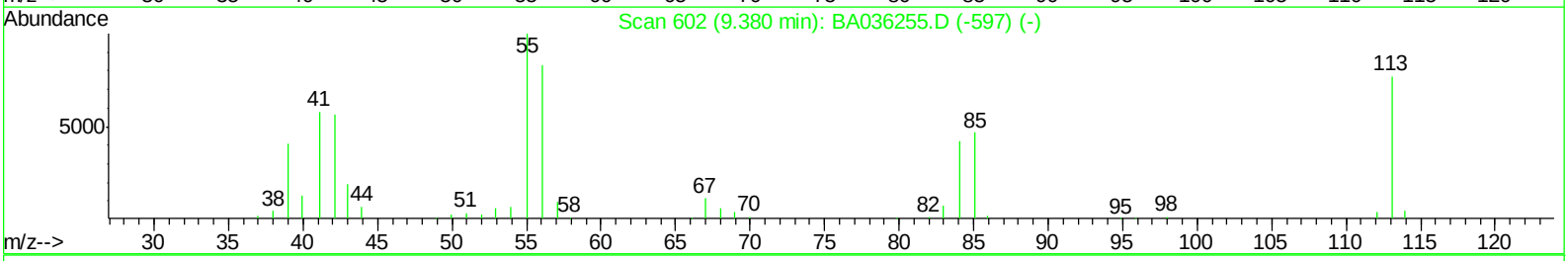
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:15:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041340.D

(30) Caprolactam

9.977min (+0.071) 1.16ng/ul

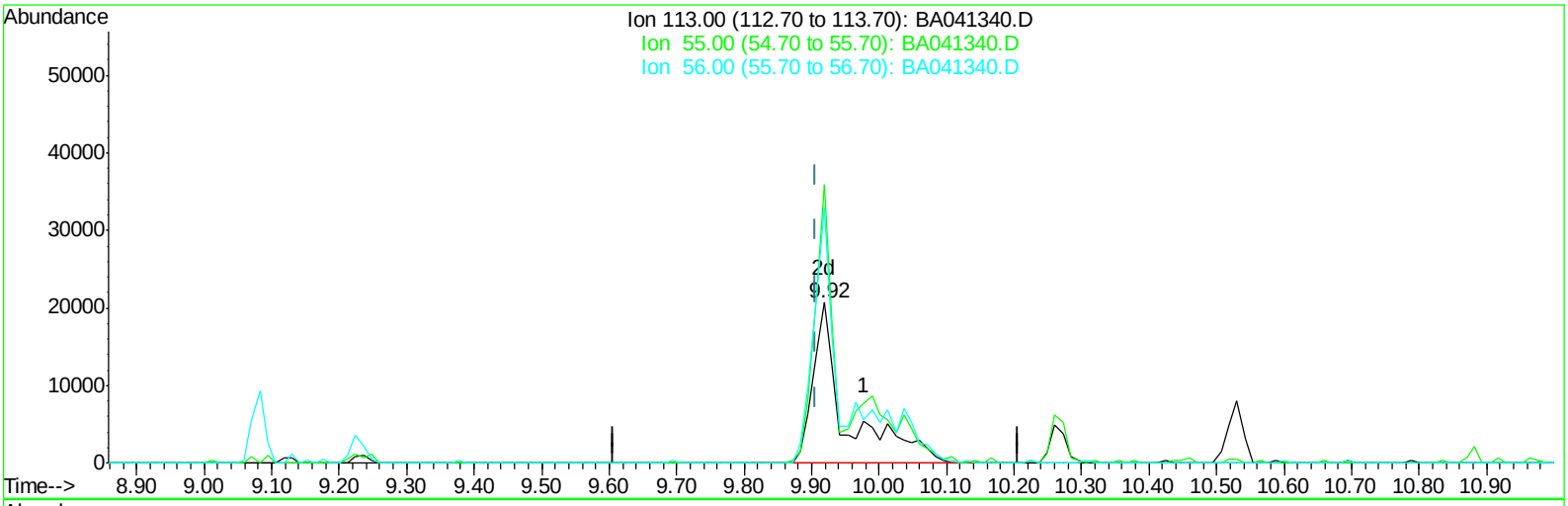
response 3749

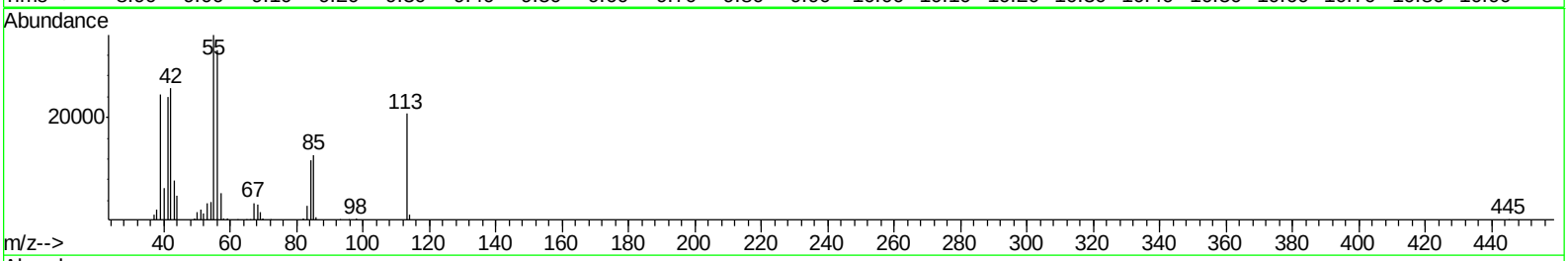
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	140.04
56.00	121.80	100.86
0.00	0.00	0.00

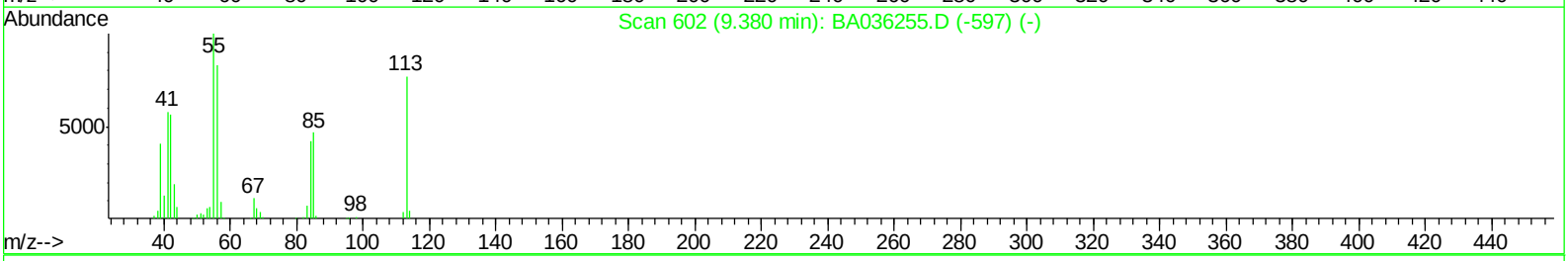
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:15:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041340.D

(30) Caprolactam

9.918min (+0.012) 21.53ng/ul m

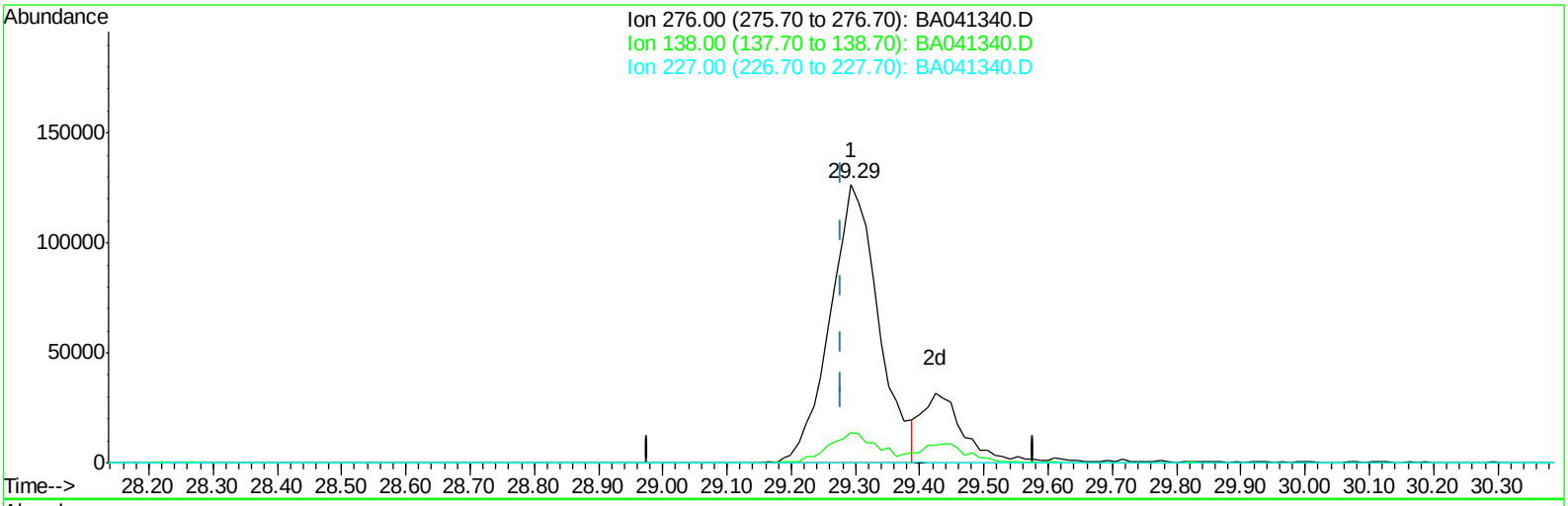
response 69661

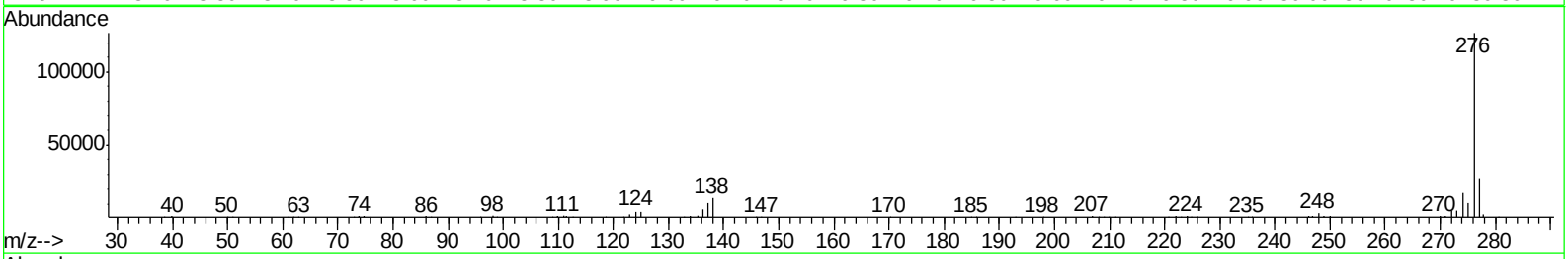
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	173.86
56.00	121.80	159.30#
0.00	0.00	0.00

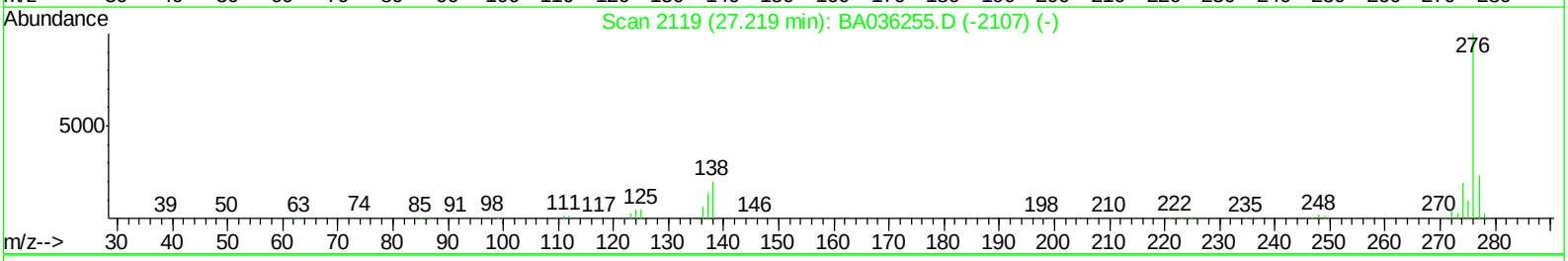
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:15:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041340.D

(87) Indeno(1,2,3-cd)pyrene

29.293min (+0.016) 14.95ng/ul

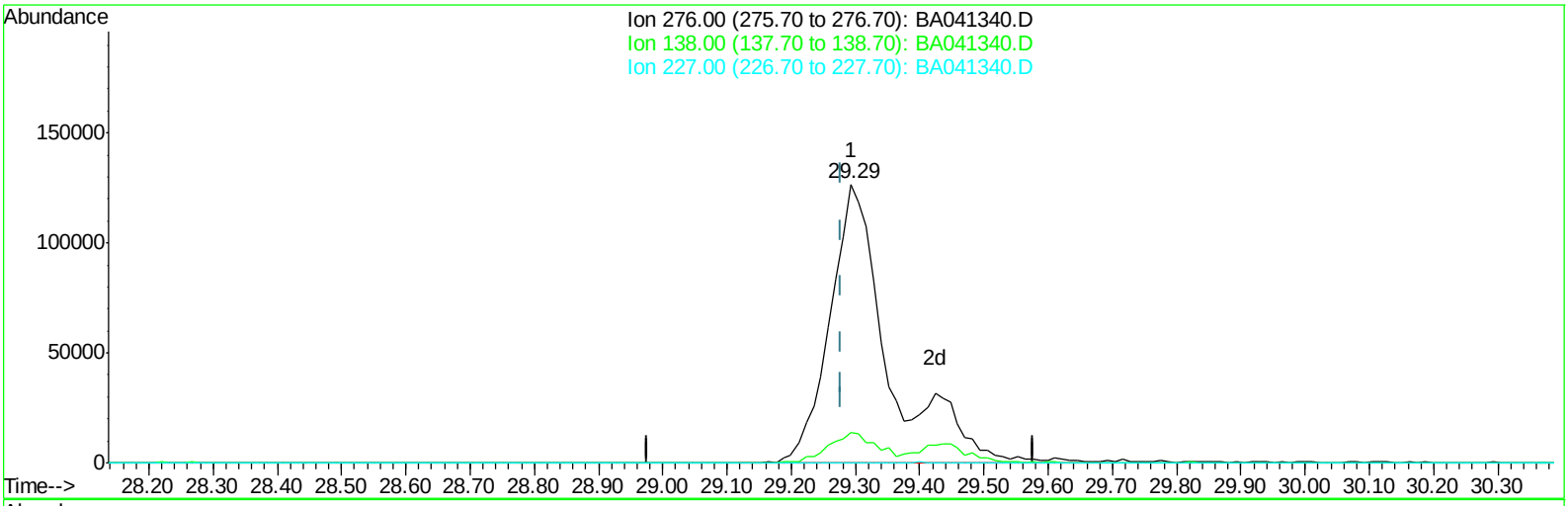
response 663988

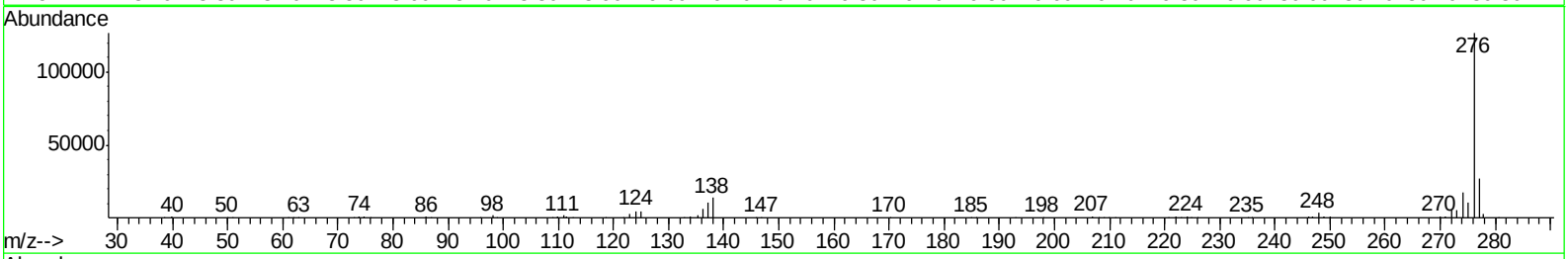
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	11.04
227.00	0.00	0.00
0.00	0.00	0.00

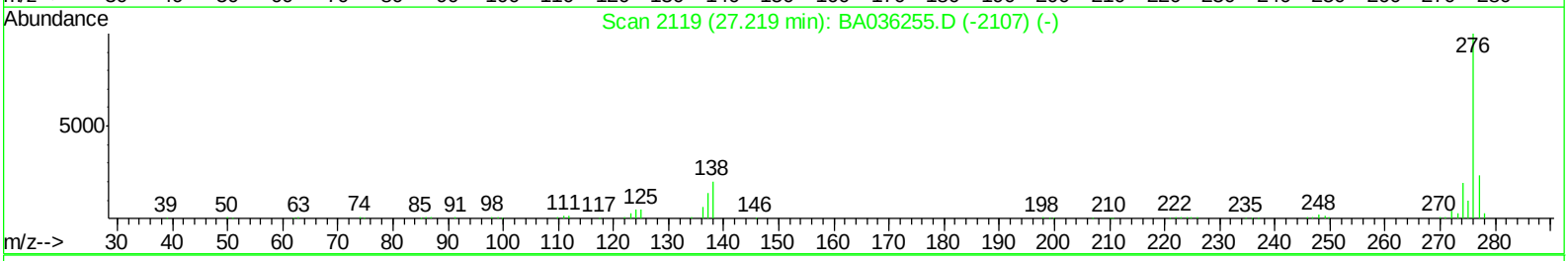
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:15:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041340.D

(87) Indeno(1,2,3-cd)pyrene

29.293min (+0.016) 18.26ng/ul m

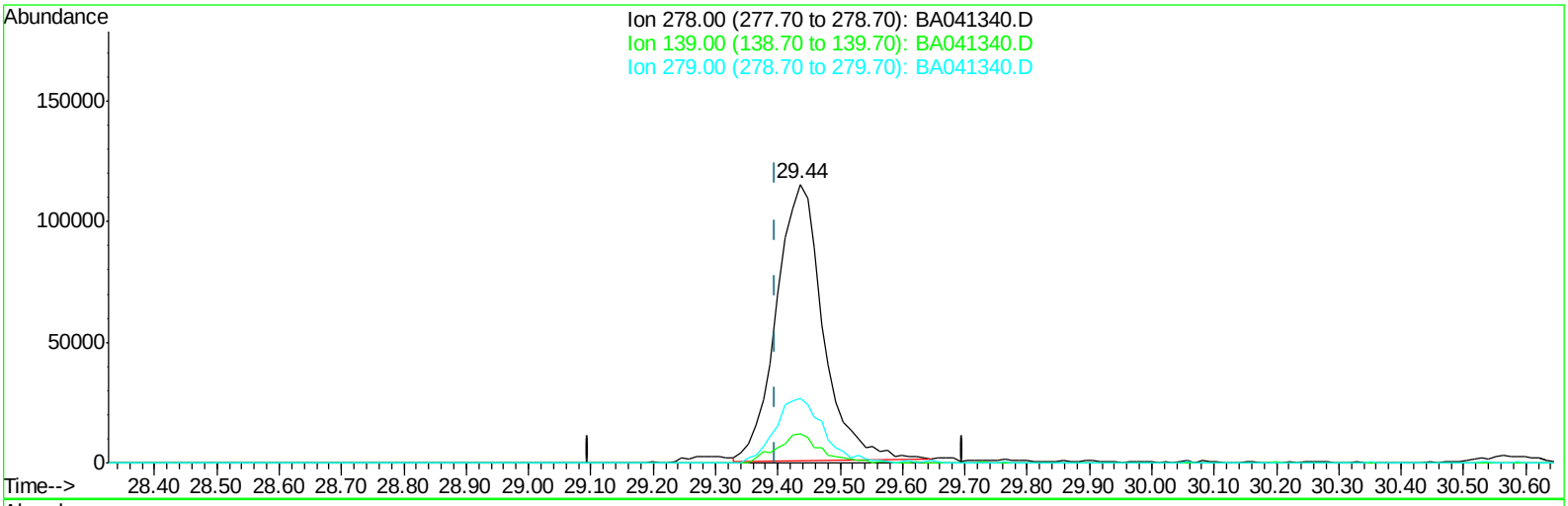
response 810908

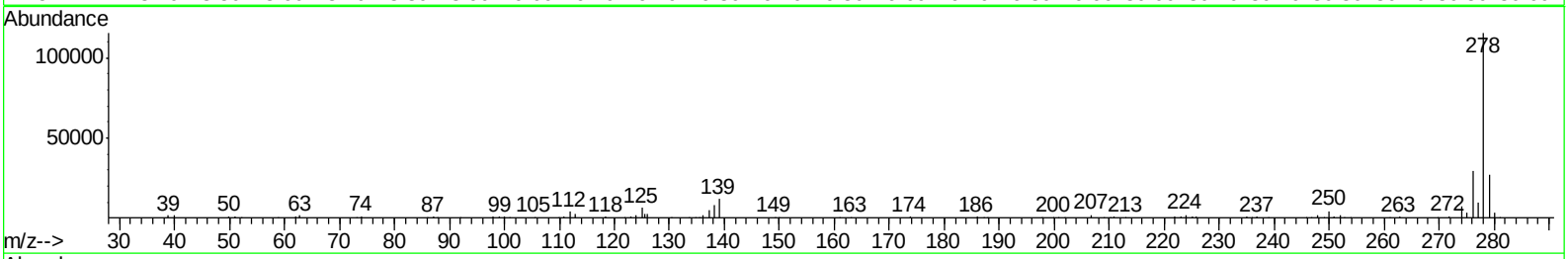
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	11.04
227.00	0.00	0.00
0.00	0.00	0.00

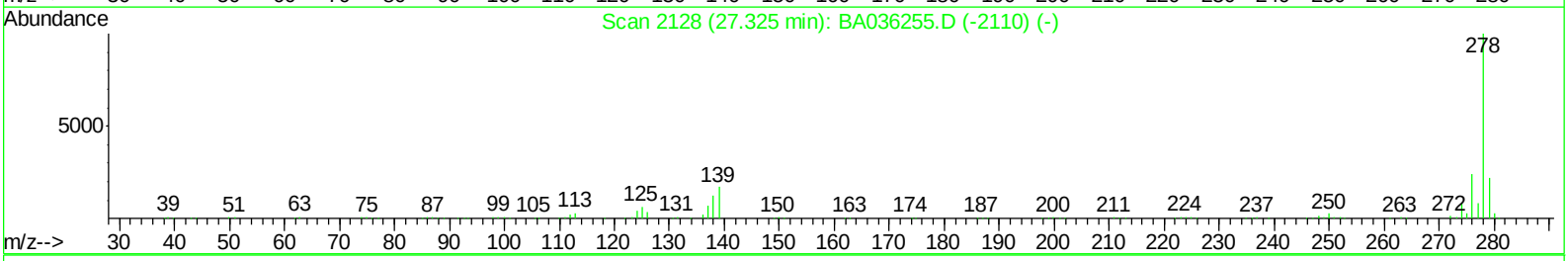
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:15:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041340.D

(88) Dibenzo(a,h)anthracene

29.436min (+0.039) 17.66ng/ul

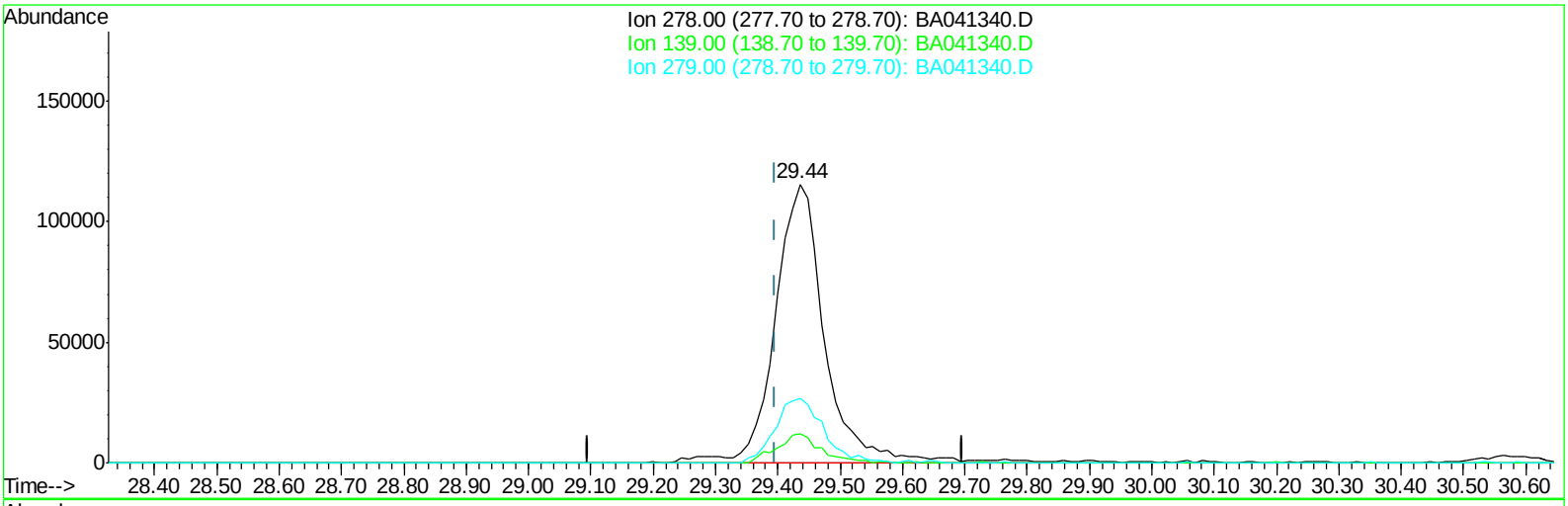
response 602186

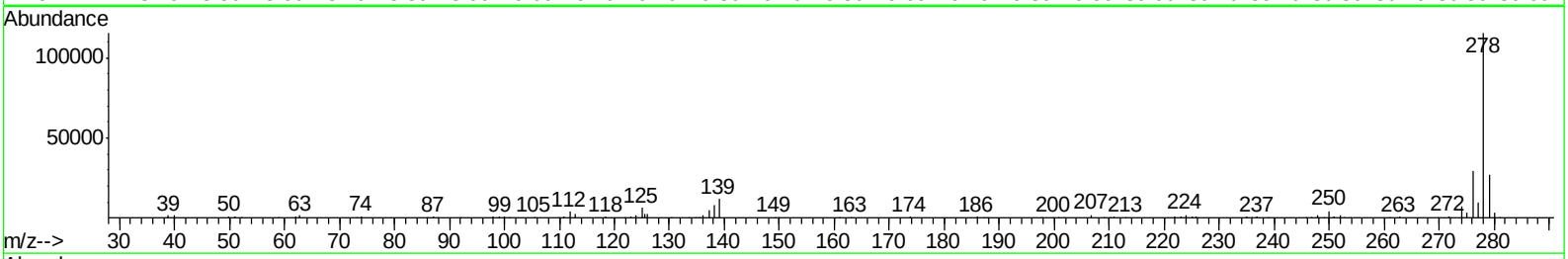
Ion	Exp%	Act%
278.00	100	100
139.00	9.60	10.43
279.00	23.70	23.42
0.00	0.00	0.00

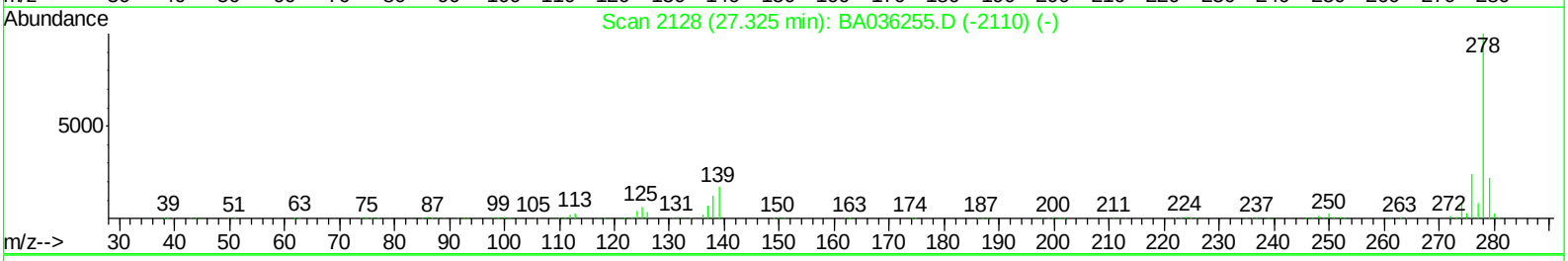
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:15:07 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041340.D

(88) Dibenzo(a,h)anthracene

29.436min (+0.039) 18.99ng/ul m

response 647451

Ion	Exp%	Act%
278.00	100	100
139.00	9.60	10.43
279.00	23.70	23.42
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:17:54 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	194123	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	652150	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.67	164	461848	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.76	188	834211	20.00	ng/ul	0.00
73) Chrysene-d12	21.31	240	989893	20.00	ng/ul	0.02
81) Perylene-d12	25.11	264	841521	20.00	ng/ul	0.03
System Monitoring Compounds						
3) Phenol-d5	6.06	99	235935	20.07	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.15	67	162164	20.35	ng/ul	0.00
7) 2-Chlorophenol-d4	6.28	132	202028	20.23	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	175336	21.99	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	118996	20.61	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	147321	20.73	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	246700	18.76	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	254673	19.58	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	626439	20.37	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	759958	20.32	ng/ul	0.00
49) 4-Nitrophenol-d4	12.98	143	117614	18.76	ng/ul	0.02
55) Fluorene-d10	13.76	176	469250	18.97	ng/ul	0.01
60) 4,6-Dinitro-2-methylphenol	13.93	200	148542	17.21	ng/ul	0.02
68) Anthracene-d10	15.88	188	764046	19.13	ng/ul	0.02
74) Pyrene-d10	18.73	212	834231	19.29	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.83	264	797278	17.40	ng/ul	0.02
Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	150585	28.71	ng/ul	92
4) Phenol	6.08	94	253769	19.90	ng/ul	93
6) Bis(2-Chloroethyl)ether	6.24	93	215269	21.08	ng/ul	92
8) 2-Chlorophenol	6.32	128	242029	21.42	ng/ul	96
9) 2-Methylphenol	7.15	108	184718	20.89	ng/ul	93
10) 2,2'-oxybis(1-Chloropropan	7.20	45	304054	20.09	ng/ul#	95
12) Acetophenone	7.42	105	336921	21.60	ng/ul	94
13) N-Nitroso-di-n-propylamine	7.45	70	178250	22.41	ng/ul	93
14) 4-Methylphenol	7.45	108	201880	21.80	ng/ul#	79
15) Hexachloroethane	7.60	117	126233	20.27	ng/ul#	83
18) Nitrobenzene	7.73	77	291924	21.52	ng/ul#	91
19) Isophorone	8.20	82	560436	21.42	ng/ul	99
21) 2-Nitrophenol	8.34	139	154716	20.28	ng/ul	92
22) 2,4-Dimethylphenol	8.46	107	248751	19.76	ng/ul	88
23) Bis(2-Chloroethoxy)methane	8.65	93	270717	21.04	ng/ul	95
25) 2,4-Dichlorophenol	8.81	162	262776	19.73	ng/ul	98
26) Naphthalene	9.12	128	610586	20.69	ng/ul	97
28) 4-Chloroaniline	9.25	127	186846	21.74	ng/ul	100
29) Hexachlorobutadiene	9.41	225	191423	18.97	ng/ul#	84
30) Caprolactam	9.92	113	69661m	21.53	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	234127	20.35	ng/ul#	80
32) 2-Methylnaphthalene	10.53	142	445199	19.26	ng/ul	97
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	335206	19.41	ng/ul	96
35) Hexachlorocyclopentadiene	10.88	237	198456	16.55	ng/ul#	98

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041340.D
Acq On : 21 Oct 2008 3:04
Operator : HNP
Sample : CCC0020BA0061
Misc : SSTD02061
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 04:17:54 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	195909	18.80 ng/ul	96
37) 2,4,5-Trichlorophenol	11.19	196	219916	20.46 ng/ul	94
38) 1,1'-Biphenyl	11.50	154	613503	18.88 ng/ul	97
39) 2-Chloronaphthalene	11.52	162	540352	19.32 ng/ul	95
40) 2-Nitroaniline	11.74	65	186082	21.45 ng/ul	88
42) Dimethylphthalate	12.17	163	667527	19.91 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	170541	20.13 ng/ul	94
45) Acenaphthylene	12.37	152	753737	20.51 ng/ul	96
46) 3-Nitroaniline	12.60	138	148285	22.25 ng/ul#	97
47) Acenaphthene	12.73	153	486456	20.10 ng/ul	98
48) 2,4-Dinitrophenol	12.82	184	107002	15.38 ng/ul#	86
50) 4-Nitrophenol	12.99	109	133377	17.74 ng/ul	95
51) Dibenzofuran	13.10	168	721330	20.00 ng/ul	91
52) 2,4-Dinitrotoluene	13.10	165	215932	19.49 ng/ul	98
53) 2,3,4,6-Tetrachlorophenol	13.37	232	208117	20.43 ng/ul#	97
54) Diethylphthalate	13.64	149	649145	19.93 ng/ul	96
56) Fluorene	13.82	166	597131	20.05 ng/ul#	94
57) 4-Chlorophenyl-phenylether	13.84	204	312055	19.69 ng/ul#	89
58) 4-Nitroaniline	13.88	138	141811	27.29 ng/ul	90
61) 4,6-Dinitro-2-methylphenol	13.95	198	155046	17.46 ng/ul#	89
62) N-Nitrosodiphenylamine	14.09	169	453350	19.05 ng/ul	91
63) 4-Bromophenyl-phenylether	14.85	248	210178	20.50 ng/ul#	93
64) Hexachlorobenzene	14.97	284	224135	18.75 ng/ul#	89
65) Atrazine	15.23	200	87146	20.73 ng/ul	91
66) Pentachlorophenol	15.38	266	175629	19.22 ng/ul	91
67) Phenanthrene	15.81	178	825742	19.40 ng/ul	99
69) Anthracene	15.92	178	885391	20.67 ng/ul	98
70) Carbazole	16.26	167	769883	19.88 ng/ul	96
71) Di-n-butylphthalate	17.06	149	1137558	20.51 ng/ul	98
72) Fluoranthene	18.30	202	1002262	19.85 ng/ul	100
75) Pyrene	18.77	202	1053981	19.19 ng/ul	99
76) Butylbenzylphthalate	20.18	149	546436	20.53 ng/ul	95
77) 3,3'-Dichlorobenzidine	21.25	252	333055	20.81 ng/ul	95
78) Benzo(a)anthracene	21.28	228	1017062	19.37 ng/ul	99
79) Bis(2-ethylhexyl)phthalate	21.40	149	614090	22.05 ng/ul	98
80) Chrysene	21.37	228	970807	21.78 ng/ul	98
82) Di-n-octyl phthalate	22.92	149	1080851	20.19 ng/ul	100
83) Benzo(b)fluoranthene	23.93	252	948537	17.26 ng/ul	95
84) Benzo(k)fluoranthene	24.01	252	995685	21.29 ng/ul	96
86) Benzo(a)pyrene	24.92	252	903849	19.07 ng/ul	96
87) Indeno(1,2,3-cd)pyrene	29.29	276	810908m	18.26 ng/ul	
88) Dibenzo(a,h)anthracene	29.44	278	647451m	18.99 ng/ul	
89) Benzo(g,h,i)perylene	30.59	276	693499	15.44 ng/ul	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 12:43

Lab File ID: BA041354.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA006 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.687	0.010	27.2	50.0
Phenol	1.314	1.210	0.010	-7.9	50.0
Bis(2-Chloroethyl)ether	1.052	1.039	0.010	-1.3	50.0
2-Chlorophenol	1.164	1.149	0.010	-1.3	50.0
2-Methylphenol	0.911	0.899	0.010	-1.3	50.0
2,2-oxybis(1-Chloropropane)	1.559	1.562	0.010	0.2	50.0
Acetophenone	1.607	1.629	0.010	1.3	50.0
4-Methylphenol	0.954	0.967	0.010	1.3	50.0
N-Nitroso-di-n-propylamine	0.819	0.811	0.010	-1.0	50.0
Hexachloroethane	0.642	0.605	0.010	-5.8	50.0
Nitrobenzene	0.416	0.401	0.010	-3.6	50.0
Isophorone	0.802	0.803	0.010	0.2	50.0
2-Nitrophenol	0.234	0.236	0.010	0.9	50.0
2,4-Dimethylphenol	0.386	0.371	0.010	-3.9	50.0
Bis(2-Chloroethoxy)methane	0.395	0.400	0.010	1.3	50.0
2,4-Dichlorophenol	0.409	0.372	0.010	-9.0	50.0
Naphthalene	0.905	0.890	0.010	-1.6	50.0
4-Chloroaniline	0.264	0.291	0.010	10.3	50.0
Hexachlorobutadiene	0.309	0.287	0.010	-7.1	50.0
Caprolactam	0.099	0.109	0.010	10.5	50.0
4-Chloro-3-methylphenol	0.353	0.352	0.010	-0.3	50.0
2-Methylnaphthalene	0.709	0.646	0.010	-8.9	50.0
Hexachlorocyclopentadiene	0.519	0.369	0.010	-28.8	50.0
2,4,6-Trichlorophenol	0.451	0.442	0.010	-2.0	50.0
2,4,5-Trichlorophenol	0.466	0.478	0.010	2.6	50.0
1,1-Biphenyl	1.407	1.350	0.010	-4.1	50.0
2-Chloronaphthalene	1.211	1.134	0.010	-6.4	50.0
2-Nitroaniline	0.376	0.379	0.010	0.7	50.0
Dimethylphthalate	1.452	1.387	0.010	-4.5	50.0
2,6-Dinitrotoluene	0.367	0.344	0.010	-6.2	50.0
Acenaphthylene	1.591	1.609	0.010	1.1	50.0
3-Nitroaniline	0.289	0.297	0.010	2.9	50.0
Acenaphthene	1.048	1.045	0.010	-0.3	50.0
2,4-Dinitrophenol	0.301	0.215	0.010	-28.5	50.0
4-Nitrophenol	0.326	0.274	0.010	-15.9	50.0
Dibenzofuran	1.562	1.556	0.010	-0.4	50.0
2,4-Dinitrotoluene	0.480	0.463	0.010	-3.5	50.0
Diethylphthalate	1.411	1.367	0.010	-3.1	50.0
Fluorene	1.290	1.258	0.010	-2.5	50.0
4-Chlorophenyl-phenylether	0.686	0.642	0.010	-6.4	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 12:43

Lab File ID: BA041354.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA006 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.300	0.010	33.1	50.0
4,6-Dinitro-2-methylphenol	0.213	0.181	0.010	-15.0	50.0
N-Nitrosodiphenylamine[1]	0.571	0.591	0.010	3.5	50.0
1,2,4,5-Tetrachlorobenzene	0.748	0.725	0.010	-3.1	50.0
4-Bromophenyl-phenylether	0.246	0.256	0.010	4.1	50.0
Hexachlorobenzene	0.287	0.277	0.010	-3.6	50.0
Atrazine	0.101	0.104	0.010	3.3	50.0
Pentachlorophenol	0.219	0.196	0.010	-10.7	50.0
Phenanthrene	1.020	1.039	0.010	1.9	50.0
Anthracene	1.027	1.029	0.010	0.2	50.0
Carbazole	0.929	0.974	0.010	4.9	50.0
Di-n-butylphthalate	1.330	1.327	0.010	-0.2	50.0
Fluoranthene	1.211	1.237	0.010	2.2	50.0
Pyrene	1.110	1.066	0.010	-4.0	50.0
Butylbenzylphthalate	0.538	0.545	0.010	1.3	50.0
3,3-Dichlorobenzidine	0.323	0.372	0.010	15.2	50.0
Benzo(a)anthracene	1.061	1.047	0.010	-1.3	50.0
Chrysene	0.901	1.015	0.010	12.7	50.0
Bis(2-ethylhexyl)phthalate	0.563	0.666	0.010	18.4	50.0
Di-n-octyl phthalate	1.273	1.503	0.010	18.1	50.0
Benzo(b)fluoranthene	1.306	1.252	0.010	-4.1	50.0
Benzo(k)fluoranthene	1.111	1.163	0.010	4.7	50.0
Benzo(a)pyrene	1.126	1.096	0.010	-2.6	50.0
Indeno(1,2,3-cd)pyrene	1.055	0.720	0.010	-31.7	50.0
Dibenzo(a,h)anthracene	0.810	0.668	0.010	-17.5	50.0
Benzo(g,h,i)perylene	1.068	0.664	0.010	-37.8	50.0
2,3,4,6-Tetrachlorophenol	0.441	0.437	0.010	-0.9	50.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 12:43

Lab File ID: BA041354.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA006 Init. Calib. Time(s): 14:01 17:16

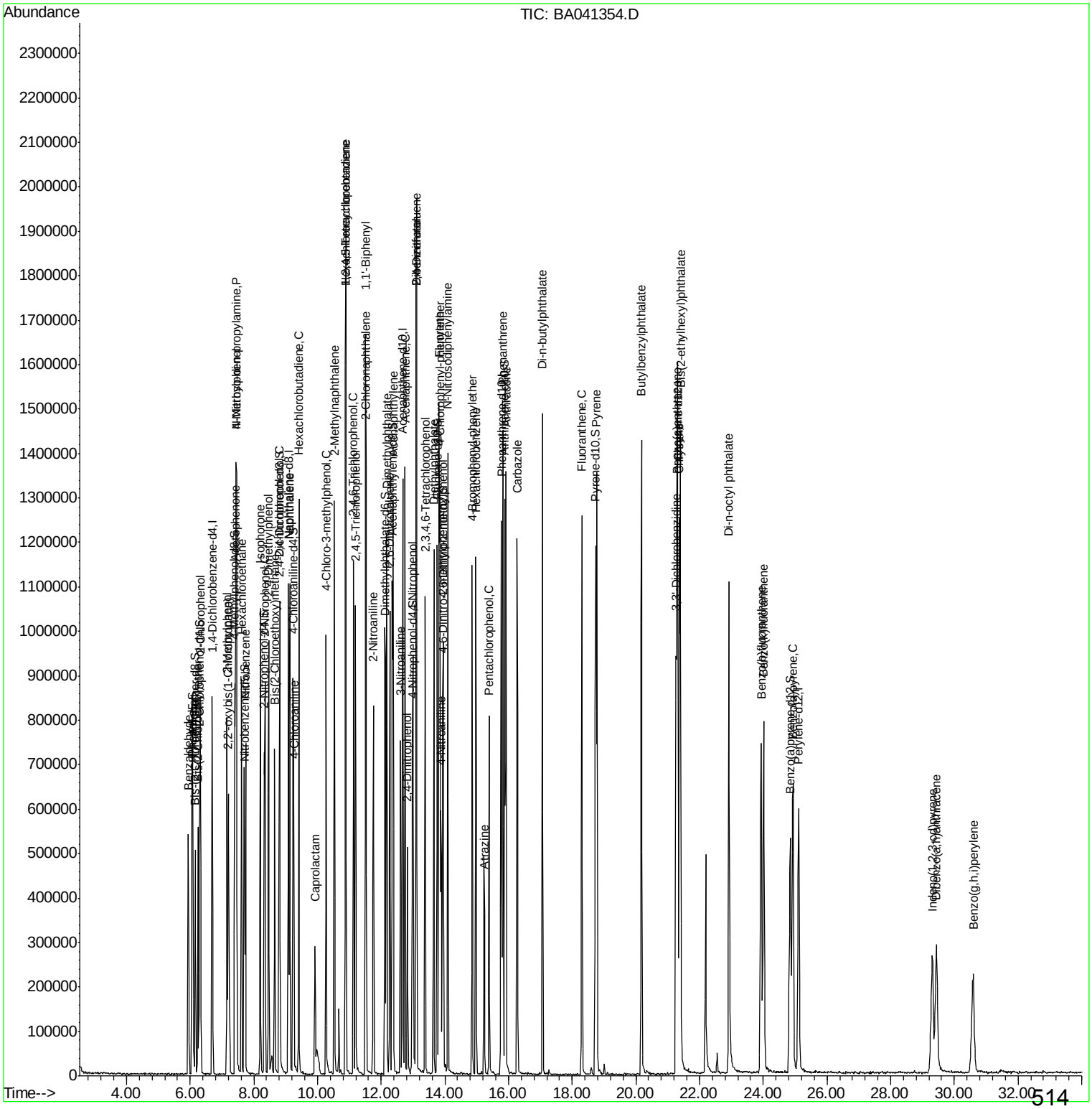
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.180	0.010	-2.5	50.0
Bis(2-Chloroethyl)ether-d8	0.821	0.822	0.010	0.1	50.0
2-Chlorophenol-d4	1.029	1.018	0.010	-1.0	50.0
4-Methylphenol-d8	0.822	0.790	0.010	-4.0	50.0
Nitrobenzene-d5	0.177	0.186	0.010	5.2	50.0
2-Nitrophenol-d4	0.218	0.215	0.010	-1.6	50.0
2,4-Dichlorophenol-d3	0.403	0.388	0.010	-3.7	50.0
4-Chloroaniline-d4	0.399	0.397	0.010	-0.5	50.0
Dimethylphthalate-d6	1.332	1.295	0.010	-2.7	50.0
Acenaphthylene-d8	1.619	1.582	0.010	-2.3	50.0
4-Nitrophenol-d4	0.271	0.264	0.010	-2.5	50.0
Fluorene-d10	1.071	0.985	0.010	-8.1	50.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.168	0.010	-18.8	50.0
Anthracene-d10	0.957	0.963	0.010	0.6	50.0
Pyrene-d10	0.874	0.876	0.010	0.2	50.0
Benzo(a)pyrene-d12	1.089	0.976	0.010	-10.4	50.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041354.D
Acq On : 21 Oct 2008 12:43
Operator : HNP
Sample : CCC0020BA0062
Misc : SSTD02062
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 13:19:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041354.D
Acq On : 21 Oct 2008 12:43
Operator : HNP
Sample : CCC0020BA0062
Misc : SSTD02062
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 13:19:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	237354	20.00	ng/ul	0.01
16) Naphthalene-d8	9.08	136	745666	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	528059	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.77	188	920071	20.00	ng/ul	0.02
73) Chrysene-d12	21.32	240	1040607	20.00	ng/ul	0.03
81) Perylene-d12	25.11	264	856450	20.00	ng/ul	0.03
System Monitoring Compounds						
3) Phenol-d5	6.06	99	280168	19.50	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	195114	20.03	ng/ul	0.00
7) 2-Chlorophenol-d4	6.30	132	241711	19.79	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	187393	19.22	ng/ul	0.01
17) Nitrobenzene-d5	7.71	128	138907	21.04	ng/ul	0.01
20) 2-Nitrophenol-d4	8.33	143	160021	19.69	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.80	165	289330	19.24	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	295960	19.90	ng/ul	0.00
41) Dimethylphthalate-d6	12.13	166	684058	19.45	ng/ul	0.01
44) Acenaphthylene-d8	12.34	160	835591	19.54	ng/ul	0.00
49) 4-Nitrophenol-d4	12.99	143	139564	19.47	ng/ul	0.02
55) Fluorene-d10	13.75	176	520016	18.39	ng/ul	0.01
60) 4,6-Dinitro-2-methylphenol	13.94	200	154623	16.24	ng/ul	0.02
68) Anthracene-d10	15.89	188	886081	20.12	ng/ul	0.03
74) Pyrene-d10	18.74	212	911676	20.05	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.84	264	835574	17.92	ng/ul	0.03
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	163012	25.42	ng/ul	87
4) Phenol	6.09	94	287151	18.42	ng/ul	96
6) Bis(2-Chloroethyl)ether	6.24	93	246537	19.75	ng/ul	90
8) 2-Chlorophenol	6.32	128	272622	19.74	ng/ul	97
9) 2-Methylphenol	7.16	108	213431	19.74	ng/ul	98
10) 2,2'-oxybis(1-Chloropropan	7.20	45	370864	20.04	ng/ul	98
12) Acetophenone	7.42	105	386557	20.27	ng/ul	94
13) N-Nitroso-di-n-propylamine	7.46	70	192515	19.80	ng/ul	92
14) 4-Methylphenol	7.46	108	229405	20.26	ng/ul	91
15) Hexachloroethane	7.61	117	143574	18.85	ng/ul	98
18) Nitrobenzene	7.74	77	299039	19.28	ng/ul	92
19) Isophorone	8.20	82	599010	20.02	ng/ul	99
21) 2-Nitrophenol	8.35	139	176032	20.18	ng/ul	93
22) 2,4-Dimethylphenol	8.47	107	276705	19.22	ng/ul	91
23) Bis(2-Chloroethoxy)methane	8.65	93	298242	20.27	ng/ul	98
25) 2,4-Dichlorophenol	8.82	162	277606	18.22	ng/ul	94
26) Naphthalene	9.13	128	663841	19.67	ng/ul	98
28) 4-Chloroaniline	9.25	127	217039	22.09	ng/ul	95
29) Hexachlorobutadiene	9.41	225	214067	18.56	ng/ul	92
30) Caprolactam	9.93	113	81603	22.06	ng/ul	94
31) 4-Chloro-3-methylphenol	10.27	107	262553	19.96	ng/ul	84
32) 2-Methylnaphthalene	10.53	142	481800	18.23	ng/ul	90
34) 1,2,4,5-Tetrachlorobenzene	10.89	216	382821	19.38	ng/ul#	94
35) Hexachlorocyclopentadiene	10.89	237	195000	14.23	ng/ul#	94

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041354.D
Acq On : 21 Oct 2008 12:43
Operator : HNP
Sample : CCC0020BA0062
Misc : SSTD02062
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 13:19:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.13	196	233290	19.58	ng/ul	99
37) 2,4,5-Trichlorophenol	11.20	196	252467	20.54	ng/ul	92
38) 1,1'-Biphenyl	11.50	154	712664	19.18	ng/ul	97
39) 2-Chloronaphthalene	11.52	162	598868	18.72	ng/ul	98
40) 2-Nitroaniline	11.75	65	199919	20.16	ng/ul	94
42) Dimethylphthalate	12.17	163	732612	19.11	ng/ul	99
43) 2,6-Dinitrotoluene	12.27	165	181818	18.77	ng/ul	93
45) Acenaphthylene	12.38	152	849566	20.22	ng/ul	98
46) 3-Nitroaniline	12.61	138	157022	20.60	ng/ul	98
47) Acenaphthene	12.74	153	551870	19.94	ng/ul	98
48) 2,4-Dinitrophenol	12.82	184	113700	14.29	ng/ul	89
50) 4-Nitrophenol	13.00	109	144755	16.84	ng/ul	95
51) Dibenzofuran	13.11	168	821666	19.92	ng/ul	95
52) 2,4-Dinitrotoluene	13.11	165	244535	19.30	ng/ul	94
53) 2,3,4,6-Tetrachlorophenol	13.38	232	230881	19.82	ng/ul	96
54) Diethylphthalate	13.65	149	721767	19.38	ng/ul	100
56) Fluorene	13.82	166	664232	19.51	ng/ul	96
57) 4-Chlorophenyl-phenylether	13.84	204	338994	18.70	ng/ul#	89
58) 4-Nitroaniline	13.88	138	158182	26.62	ng/ul	87
61) 4,6-Dinitro-2-methylphenol	13.95	198	166538	17.00	ng/ul#	89
62) N-Nitrosodiphenylamine	14.09	169	543679	20.71	ng/ul	97
63) 4-Bromophenyl-phenylether	14.86	248	235664	20.84	ng/ul	97
64) Hexachlorobenzene	14.97	284	254483	19.30	ng/ul	91
65) Atrazine	15.24	200	95972	20.70	ng/ul#	85
66) Pentachlorophenol	15.40	266	179914	17.85	ng/ul	94
67) Phenanthrene	15.82	178	955987	20.36	ng/ul	98
69) Anthracene	15.92	178	946687	20.04	ng/ul	99
70) Carbazole	16.27	167	896401	20.99	ng/ul	96
71) Di-n-butylphthalate	17.07	149	1221360	19.96	ng/ul	98
72) Fluoranthene	18.31	202	1138399	20.44	ng/ul	98
75) Pyrene	18.77	202	1109381	19.21	ng/ul#	96
76) Butylbenzylphthalate	20.18	149	567199	20.27	ng/ul#	92
77) 3,3'-Dichlorobenzidine	21.26	252	387373	23.02	ng/ul#	95
78) Benzo(a)anthracene	21.28	228	1089404	19.74	ng/ul	99
79) Bis(2-ethylhexyl)phthalate	21.40	149	693539	23.69	ng/ul	97
80) Chrysene	21.36	228	1056597	22.55	ng/ul	96
82) Di-n-octyl phthalate	22.92	149	1287269	23.62	ng/ul	100
83) Benzo(b)fluoranthene	23.94	252	1072645	19.17	ng/ul	99
84) Benzo(k)fluoranthene	24.02	252	996112	20.93	ng/ul#	97
86) Benzo(a)pyrene	24.93	252	938817	19.47	ng/ul	94
87) Indeno(1,2,3-cd)pyrene	29.31	276	616912	13.65	ng/ul	97
88) Dibenzo(a,h)anthracene	29.44	278	572418	16.50	ng/ul	99
89) Benzo(g,h,i)perylene	30.60	276	569093	12.45	ng/ul#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CHEMTECH

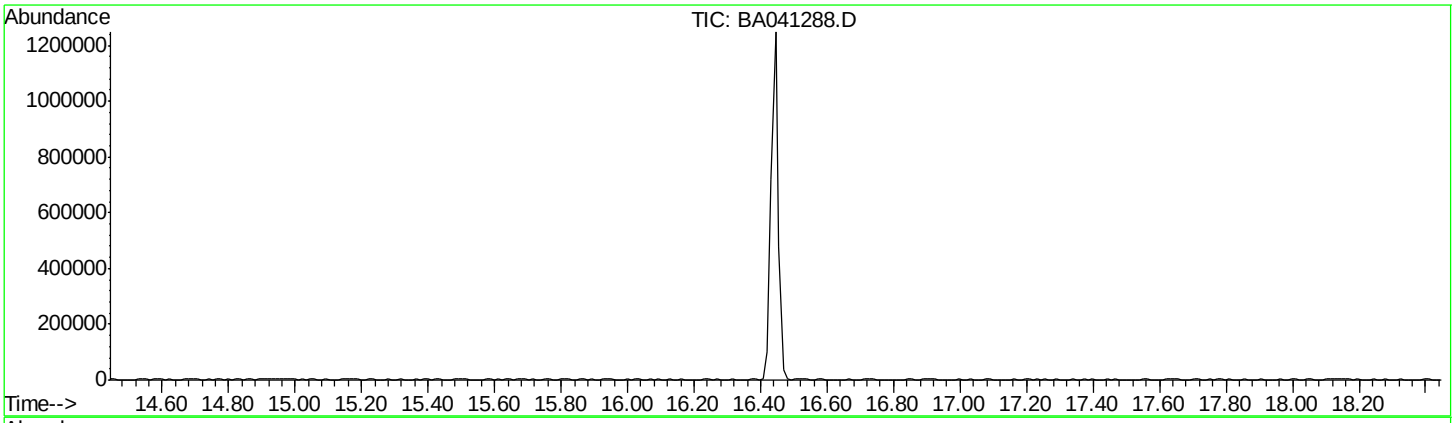
SEMI-VOLATILE RAW QC DATA

DFTPP

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041288.D
Acq On : 19 Oct 2008 13:20
Operator : QM
Sample : DFTPPBA0013
Misc : DFTPP13
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Oct 20 11:13:32 2008



AutoFind: Scans 1184, 1185, 1186; Background Corrected with Scan 1179

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.3	52690	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	56.5	59221	PASS
70	69	0.00	2	0.2	106	PASS
127	198	10	80	39.1	41005	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	104802	PASS
199	198	5	9	6.6	6961	PASS
275	198	10	60	16.0	16740	PASS
365	198	1	100	1.3	1372	PASS
441	443	0.01	100	73.4	7271	PASS
442	198	50	100	50.1	52506	PASS
443	442	15	24	18.9	9906	PASS

Scan 1184 (16.433 min): BA041288.D
DFTPPBA0013

m/z	Abundance
36.65	448.0
38.00	1647.0
39.00	5577.0
39.90	1679.0
40.80	399.0
44.90	257.0
48.95	806.0
50.05	21232.0
51.05	60264.0
51.95	2814.0
54.85	394.0
55.95	1171.0
57.05	4042.0
60.90	338.0
61.70	519.0
63.00	2110.0
64.10	357.0
64.80	250.0
68.95	64152.0
72.55	344.0
74.05	6248.0
74.95	8144.0
76.05	3077.0
77.05	43112.0
78.05	2658.0
79.05	2952.0
80.00	4358.0
81.00	4233.0
82.00	743.0
82.80	945.0
84.90	707.0
85.80	1383.0
86.90	281.0
90.85	945.0
91.85	928.0
93.05	9632.0
93.85	573.0
95.95	506.0
96.45	464.0
97.95	7136.0
98.95	3452.0
100.90	1755.0
102.90	1144.0
104.00	1347.0
104.70	1010.0
107.00	16896.0
107.90	2202.0
110.00	25720.0
110.85	3892.0
111.95	280.0
116.95	16129.0
117.85	622.0
119.95	281.0
121.80	1448.0
122.80	899.0
123.90	442.0
124.80	600.0
127.00	37920.0
128.00	3284.0
129.00	22680.0
129.80	1224.0
130.90	268.0
133.85	1043.0
134.85	1117.0
135.95	732.0
136.65	342.0
140.05	657.0
140.95	2839.0
142.00	812.0
142.90	300.0
145.40	344.0
146.90	1299.0
147.90	3544.0
148.90	487.0
152.85	585.0
153.75	972.0
154.95	1079.0
155.95	2008.0
157.95	712.0
158.85	580.0
159.85	530.0
160.95	1102.0
164.90	874.0
165.90	737.0
167.00	4358.0
167.90	1887.0
168.90	307.0
172.90	411.0
173.75	1010.0
175.05	1501.0
175.85	466.0

176.55	1282.0
177.85	337.0
178.85	3524.0
180.05	1383.0
180.85	938.0
183.90	350.0
184.90	1575.0
185.90	9160.0
187.00	2960.0
188.90	631.0
192.00	962.0
193.00	861.0
195.85	2142.0
197.95	85112.0
198.95	5482.0
203.05	723.0
204.05	3114.0
204.80	4738.0
206.00	15908.0
206.90	2406.0
207.90	737.0
210.30	578.0
211.20	342.0
215.85	818.0
216.95	5420.0
217.75	889.0
220.95	3372.0
222.05	1352.0
222.75	1392.0
224.05	12132.0
224.95	2306.0
226.90	3847.0
227.90	777.0
228.80	499.0
234.60	420.0
236.85	312.0
239.65	278.0
241.95	636.0
242.95	624.0
244.05	4018.0
245.15	342.0
245.95	1079.0
255.00	30560.0
256.00	4765.0
257.85	1772.0
264.85	809.0
270.80	299.0
272.10	277.0
272.90	861.0
274.00	2611.0
275.00	11319.0
275.90	1291.0
276.90	1010.0
282.75	537.0
296.00	3650.0
296.90	432.0
314.20	491.0
314.80	405.0
322.95	1244.0
333.90	328.0
364.65	497.0
365.05	487.0
420.90	302.0
423.00	1711.0
440.90	3050.0
442.10	19496.0
443.00	3869.0

Scan 1185 (16.445 min): BA041288.D
DFTPPBA0013

m/z	Abundance
36.85	1102.0
38.10	1631.0
39.10	6898.0
39.80	1525.0
43.70	794.0
49.05	1010.0
50.05	23888.0
51.05	77600.0
51.95	3544.0
52.85	424.0
55.15	464.0
55.95	2202.0
56.95	5298.0
57.95	588.0
61.00	275.0
62.00	1520.0
63.00	2450.0
63.90	791.0
64.90	1347.0
68.95	88416.0
69.85	318.0
72.95	780.0
74.05	8167.0
74.95	10589.0
76.05	3914.0
77.05	60264.0
78.05	4383.0
78.95	4550.0
80.00	6022.0
81.00	4848.0
81.90	1472.0
82.90	1003.0
84.00	414.0
85.10	774.0
85.70	2090.0
86.90	286.0
90.85	1420.0
91.95	1806.0
92.95	13704.0
93.95	846.0
98.05	8982.0
99.05	4283.0
100.90	3236.0
101.80	363.0
102.90	1621.0
103.90	2008.0
104.80	2348.0
107.00	21000.0
108.00	2996.0
110.00	35912.0
110.95	6501.0
111.75	1028.0
112.75	356.0
115.95	729.0
116.95	22304.0
117.95	1312.0
119.85	534.0
121.80	1486.0
122.90	3332.0
123.90	1761.0
124.90	426.0
127.00	64152.0
128.00	4283.0
129.00	29016.0
129.90	2169.0
130.80	328.0
133.85	1025.0
135.05	2243.0
135.75	1087.0
136.95	1043.0
140.05	588.0
140.95	3362.0
142.00	1236.0
142.70	893.0
143.90	363.0
145.80	745.0
146.20	585.0
146.90	2510.0
148.00	4890.0
148.70	450.0
149.00	466.0
149.90	333.0
151.10	482.0
152.20	340.0
152.85	1299.0
153.95	1010.0
154.95	1595.0
155.85	2634.0
156.95	1032.0
157.85	675.0
158.85	454.0

159.85	852.0
160.95	1124.0
161.75	359.0
163.80	464.0
164.90	1406.0
165.90	2162.0
167.00	6898.0
167.90	3323.0
170.80	906.0
171.80	487.0
173.00	564.0
173.85	1453.0
175.05	2142.0
175.95	893.0
176.85	1535.0
177.95	919.0
178.95	5090.0
180.05	4101.0
180.95	1983.0
183.05	312.0
183.90	399.0
184.90	2503.0
186.00	17512.0
187.00	4173.0
187.90	414.0
188.80	718.0
190.10	289.0
191.00	680.0
191.90	1520.0
192.90	1875.0
194.05	277.0
194.95	383.0
195.95	3769.0
197.95	161920.0
198.95	12647.0
199.85	1132.0
201.45	297.0
202.85	1021.0
204.05	5467.0
205.00	8784.0
206.00	37512.0
207.00	5237.0
207.90	948.0
208.80	458.0
210.90	1379.0
211.70	352.0
214.80	541.0
216.85	10043.0
217.85	1159.0
220.95	8589.0
222.85	2495.0
224.05	15820.0
225.05	2772.0
226.90	10043.0
228.00	1183.0
228.90	2363.0
229.90	269.0
230.80	612.0
233.80	310.0
236.85	849.0
239.95	294.0
240.95	935.0
244.05	12404.0
245.15	1722.0
245.95	2603.0
246.90	543.0
248.80	265.0
252.80	474.0
255.00	72112.0
256.00	9263.0
257.95	4603.0
258.85	578.0
264.05	338.0
264.95	1365.0
272.10	495.0
272.90	2313.0
274.00	5920.0
275.00	26008.0
275.90	4246.0
277.00	1580.0
277.75	619.0
282.85	493.0
292.80	534.0
294.90	325.0
296.00	8784.0
296.80	993.0
303.05	815.0
308.05	372.0
314.80	609.0
316.00	412.0
322.95	2058.0
326.65	428.0
332.90	271.0
334.00	1496.0
334.80	390.0

345.55	266.0
351.90	403.0
353.80	710.0
364.85	1840.0
371.90	1458.0
372.60	365.0
390.15	323.0
402.20	322.0
402.90	373.0
420.70	564.0
421.80	715.0
423.10	2960.0
423.90	839.0
441.00	9605.0
442.10	76768.0
443.10	14245.0
443.90	1098.0

Scan 1186 (16.456 min): BA041288.D
DFTPPBA0013

m/z	Abundance
37.90	388.0
38.90	1881.0
39.80	1733.0
40.90	399.0
43.70	460.0
48.95	411.0
50.05	6373.0
50.95	20208.0
52.05	1068.0
55.95	969.0
56.85	1278.0
61.80	723.0
62.60	634.0
68.95	25096.0
73.05	460.0
73.95	1717.0
75.05	2320.0
75.95	1195.0
77.05	17320.0
78.05	1028.0
79.05	1706.0
79.80	1232.0
80.90	1448.0
82.00	919.0
82.60	485.0
85.20	515.0
85.80	386.0
90.75	305.0
92.05	797.0
92.85	2406.0
93.95	373.0
97.85	2443.0
98.95	986.0
100.70	691.0
103.90	922.0
104.80	550.0
107.00	8144.0
107.90	880.0
110.00	11932.0
110.85	1203.0
116.95	6005.0
117.75	281.0
122.00	830.0
122.80	670.0
125.70	274.0
127.00	20944.0
127.80	1007.0
129.00	9314.0
129.90	743.0
133.05	254.0
133.85	254.0
134.85	388.0
140.95	786.0
141.75	327.0
145.70	327.0
147.00	654.0
147.90	1374.0
148.80	277.0
152.85	352.0
153.95	624.0
154.95	896.0
155.95	1105.0
158.05	452.0
159.55	272.0
160.95	654.0
164.80	530.0
166.80	2518.0
167.90	1183.0
168.80	275.0
173.95	883.0
174.85	388.0
176.75	583.0
177.75	292.0
178.85	2292.0
179.95	1570.0
180.85	754.0
185.00	723.0
185.90	7116.0
187.00	1910.0
188.00	365.0
188.70	474.0
190.80	434.0
191.80	827.0
196.05	2090.0
197.95	67376.0
198.85	2756.0
199.85	304.0
201.35	476.0
203.15	446.0
203.95	1834.0
204.90	3534.0

206.00	13294.0
207.00	2865.0
207.80	649.0
210.60	559.0
214.90	502.0
216.85	4710.0
217.75	642.0
220.95	2978.0
222.85	571.0
224.05	7319.0
224.95	922.0
226.80	3059.0
228.10	564.0
228.80	707.0
230.90	411.0
235.00	292.0
235.90	377.0
236.65	383.0
241.55	268.0
243.95	5283.0
244.95	707.0
245.95	783.0
255.00	30152.0
255.90	4643.0
256.85	508.0
257.95	942.0
264.85	517.0
272.90	760.0
273.90	1717.0
275.00	12895.0
276.00	1946.0
277.10	809.0
296.00	4125.0
314.10	388.0
314.90	335.0
322.85	925.0
333.80	867.0
352.00	450.0
352.90	517.0
353.90	428.0
364.85	1789.0
371.75	566.0
402.80	349.0
403.75	313.0
421.20	304.0
421.90	602.0
423.00	2045.0
424.00	553.0
441.00	9160.0
442.10	61256.0
443.00	11606.0
443.90	1308.0

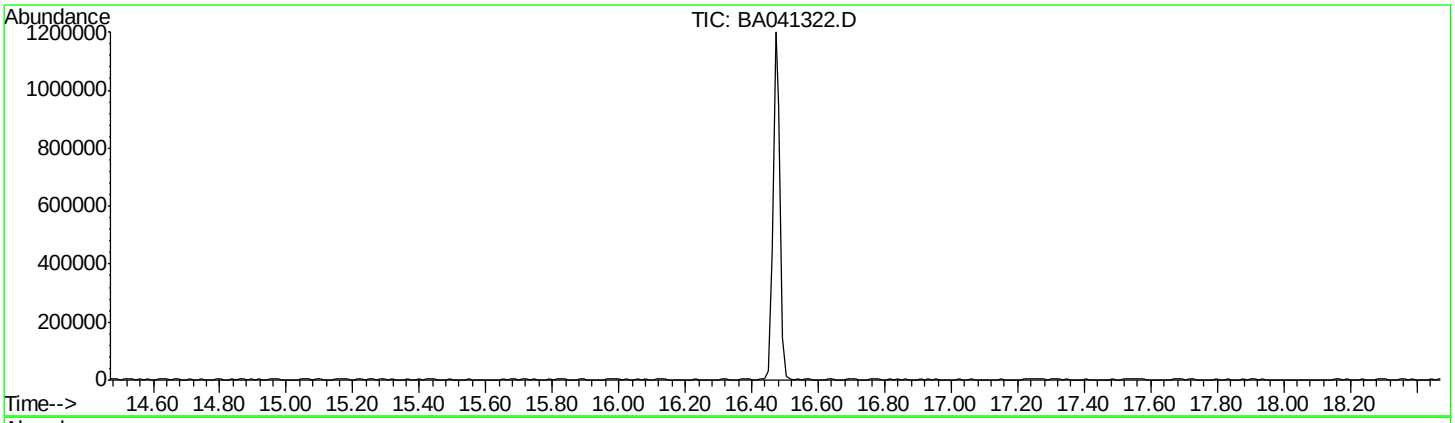
Scan 1179 (16.374 min): BA041288.D
DFTPPBA0013

m/z	Abundance
39.90	1772.0
48.85	305.0
76.95	499.0
95.15	312.0

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041322.D
Acq On : 20 Oct 2008 14:37
Operator : HNP
Sample : DFTPPBA0017
Misc : DFTPP17
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Oct 20 11:13:32 2008



AutoFind: Scans 1209, 1210, 1211; Background Corrected with Scan 1205

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.0	56853	PASS
68	69	0.00	2	0.6	354	PASS
69	198	0.00	100	59.3	61306	PASS
70	69	0.00	2	0.3	168	PASS
127	198	10	80	42.5	43874	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	103320	PASS
199	198	5	9	5.9	6104	PASS
275	198	10	60	20.6	21233	PASS
365	198	1	100	2.2	2308	PASS
441	443	0.01	100	75.6	8934	PASS
442	198	50	100	56.6	58529	PASS
443	442	15	24	20.2	11821	PASS

Scan 1209 (16.460 min): BA041322.D
DFTPPBA0017

m/z	Abundance
38.10	782.0
39.00	3925.0
39.80	1020.0
48.95	882.0
49.95	10211.0
51.05	44176.0
51.85	1067.0
55.95	1020.0
56.95	2641.0
61.00	348.0
61.70	643.0
62.80	879.0
63.90	441.0
64.90	258.0
68.00	1063.0
68.95	38232.0
72.95	443.0
73.95	3692.0
74.95	6283.0
75.95	2208.0
77.05	26584.0
77.85	1082.0
78.95	3244.0
79.90	1793.0
80.90	2881.0
81.80	410.0
82.80	531.0
83.70	465.0
84.70	447.0
85.80	1139.0
87.10	533.0
87.80	385.0
90.95	661.0
91.85	1194.0
92.95	5373.0
93.85	362.0
98.05	4357.0
98.85	2673.0
99.85	433.0
100.90	1277.0
102.70	362.0
103.80	465.0
104.90	348.0
107.00	9392.0
107.80	985.0
110.00	17040.0
110.85	1749.0
116.95	9006.0
117.95	417.0
121.90	606.0
122.90	873.0
123.80	319.0
124.80	391.0
127.00	25232.0
128.00	2563.0
129.00	10947.0
129.80	1589.0
134.95	999.0
135.95	337.0
136.85	549.0
140.75	1013.0
141.90	496.0
146.10	326.0
146.90	690.0
147.90	1958.0
148.70	274.0
152.75	319.0
154.75	439.0
155.95	747.0
157.75	410.0
158.85	316.0
159.95	307.0
160.75	785.0
164.80	596.0
165.90	841.0
167.00	2457.0
167.70	848.0
171.80	367.0
172.90	268.0
173.75	326.0
174.95	728.0
176.95	854.0
177.95	531.0
178.75	2235.0
179.85	826.0
180.95	429.0
185.00	826.0
186.00	5953.0
186.90	1457.0
188.00	261.0
188.90	479.0

190.70	413.0
191.90	520.0
192.80	547.0
195.85	978.0
197.95	54192.0
198.85	2548.0
199.95	380.0
202.85	393.0
204.05	1186.0
205.00	2805.0
206.00	11318.0
207.00	1135.0
207.80	465.0
209.90	406.0
210.80	542.0
216.95	4208.0
220.95	2540.0
223.95	5836.0
224.95	958.0
226.90	3067.0
228.00	579.0
228.80	503.0
234.80	332.0
240.85	267.0
243.05	465.0
243.95	3031.0
244.85	575.0
245.75	540.0
255.00	18152.0
255.90	2747.0
258.05	1178.0
264.95	284.0
272.70	341.0
273.70	1447.0
275.00	7917.0
275.90	869.0
276.80	690.0
295.90	2398.0
297.00	279.0
322.75	479.0
323.45	293.0
333.70	334.0
422.90	613.0
442.00	12507.0
443.00	3371.0

Scan 1210 (16.471 min): BA041322.D
DFTPPBA0017

m/z	Abundance
36.75	621.0
37.90	1078.0
39.00	6354.0
39.80	1324.0
41.70	261.0
43.00	717.0
44.00	656.0
48.45	486.0
49.05	854.0
50.05	25792.0
51.05	85344.0
52.05	3482.0
54.85	445.0
56.05	2222.0
57.05	5786.0
61.10	1074.0
61.90	1369.0
63.00	2890.0
63.90	371.0
65.10	1101.0
68.95	94368.0
69.75	505.0
74.05	9313.0
75.05	10676.0
76.05	3971.0
77.05	61088.0
78.05	5251.0
78.95	5419.0
79.90	3902.0
81.00	4709.0
82.00	1419.0
82.90	594.0
85.10	895.0
85.90	1529.0
86.90	863.0
87.90	511.0
90.85	1364.0
91.95	1268.0
92.95	9958.0
93.95	1074.0
97.95	8492.0
98.95	5147.0
99.95	756.0
101.00	2968.0
102.90	971.0
103.90	2128.0
104.90	1260.0
107.00	22992.0
108.00	2977.0
110.00	38232.0
110.95	6004.0
111.85	398.0
116.05	1480.0
116.95	20768.0
117.85	1078.0
120.05	290.0
121.80	1178.0
123.00	2755.0
123.90	1002.0
124.90	1405.0
127.00	58968.0
128.00	4988.0
129.00	35128.0
130.00	2502.0
131.00	425.0
134.05	773.0
134.95	2312.0
135.85	587.0
136.95	1667.0
140.05	656.0
140.95	5221.0
141.80	857.0
142.90	838.0
145.90	503.0
146.90	1646.0
148.00	4615.0
148.70	799.0
150.90	494.0
152.00	282.0
152.95	1500.0
153.95	1396.0
154.95	2312.0
155.95	1594.0
156.95	351.0
158.85	561.0
159.95	796.0
161.05	1027.0
164.80	2369.0
165.90	898.0
167.00	5236.0
167.90	1822.0

169.00	687.0
169.90	423.0
170.90	339.0
172.00	477.0
172.80	549.0
173.85	1810.0
174.95	2864.0
175.85	635.0
176.75	835.0
178.95	5481.0
179.95	3040.0
181.05	1093.0
181.75	365.0
184.00	709.0
185.00	2959.0
186.00	17368.0
187.00	5177.0
188.90	1116.0
191.30	658.0
191.90	2013.0
193.00	1850.0
193.80	467.0
195.95	4100.0
197.95	139456.0
198.95	8281.0
199.95	473.0
202.95	1198.0
204.05	4737.0
204.90	7485.0
206.00	32544.0
206.90	4523.0
207.90	866.0
208.80	400.0
209.90	334.0
210.70	860.0
214.80	439.0
216.95	11381.0
217.75	854.0
219.75	367.0
220.95	4764.0
222.95	1589.0
223.95	16217.0
224.95	3585.0
225.90	549.0
227.00	8881.0
227.70	1123.0
228.80	2830.0
229.80	298.0
230.80	445.0
233.40	371.0
233.90	396.0
235.00	511.0
235.95	901.0
236.85	303.0
241.75	905.0
242.95	1364.0
243.95	12858.0
244.95	1307.0
245.95	2951.0
246.70	687.0
248.80	273.0
252.90	408.0
255.00	66824.0
255.90	8421.0
257.85	3638.0
258.75	558.0
264.85	1433.0
265.75	457.0
267.05	279.0
271.40	355.0
273.00	1799.0
274.00	3713.0
275.00	28464.0
276.10	3085.0
277.00	1052.0
283.15	413.0
283.95	277.0
284.85	621.0
291.90	309.0
292.90	554.0
296.00	8351.0
296.70	658.0
302.75	931.0
314.80	714.0
315.80	522.0
320.85	288.0
322.95	1285.0
326.75	479.0
331.60	290.0
333.90	516.0
340.65	293.0
351.80	782.0
352.60	387.0
353.60	509.0
364.85	3351.0

365.65	396.0
371.80	802.0
402.60	690.0
420.80	413.0
421.80	863.0
423.00	3049.0
441.00	10412.0
442.00	69984.0
443.00	12165.0
443.90	1324.0

Scan 1211 (16.482 min): BA041322.D
DFTPPBA0017

m/z	Abundance
37.80	692.0
39.00	4160.0
39.80	790.0
42.90	545.0
43.90	656.0
50.05	12098.0
51.05	41040.0
51.95	1782.0
54.75	322.0
55.95	1056.0
56.95	3178.0
60.90	404.0
62.00	419.0
63.00	1594.0
64.90	396.0
68.95	51320.0
72.95	536.0
74.05	3902.0
74.95	5544.0
76.05	3040.0
77.05	39288.0
78.05	2571.0
78.95	4357.0
80.00	3244.0
80.90	4484.0
82.00	1198.0
82.70	419.0
85.10	1074.0
85.80	421.0
86.90	344.0
90.95	1135.0
92.05	1749.0
92.95	7895.0
93.95	258.0
97.95	5045.0
98.95	3801.0
100.90	1868.0
102.90	687.0
103.90	1519.0
104.90	1247.0
107.00	12930.0
107.90	2959.0
110.00	23760.0
110.95	2122.0
111.85	303.0
115.95	1190.0
116.95	12098.0
122.00	1765.0
122.80	1683.0
123.90	885.0
124.50	594.0
127.00	47424.0
128.00	3067.0
129.00	23056.0
129.90	3085.0
130.80	516.0
133.95	790.0
134.95	1178.0
135.95	488.0
136.95	507.0
137.65	282.0
141.05	2813.0
141.90	1235.0
142.80	1391.0
146.90	1951.0
148.00	3585.0
148.90	978.0
152.85	805.0
153.85	319.0
154.95	2168.0
155.75	2383.0
156.95	433.0
157.85	568.0
159.05	826.0
159.85	744.0
161.05	1031.0
161.75	773.0
164.90	1086.0
165.90	826.0
167.00	5103.0
168.00	1862.0
170.00	291.0
171.10	563.0
171.60	475.0
172.80	419.0
173.75	817.0
174.85	1958.0
175.65	1116.0
176.85	869.0
178.95	4076.0
180.05	2986.0

180.85	1810.0
181.95	417.0
184.80	1782.0
186.00	13779.0
187.00	4642.0
188.10	344.0
188.90	787.0
191.00	625.0
191.90	1294.0
193.00	1281.0
194.00	307.0
195.95	1850.0
196.65	1260.0
197.95	116312.0
198.95	7485.0
199.85	570.0
201.25	334.0
202.95	643.0
204.05	3757.0
204.90	4750.0
206.00	28000.0
207.00	3846.0
207.90	1268.0
208.90	319.0
210.10	895.0
211.10	776.0
215.85	1219.0
216.95	9497.0
217.85	796.0
220.95	5466.0
221.85	1116.0
223.05	1845.0
223.95	13478.0
225.05	3879.0
225.90	332.0
226.90	7256.0
227.90	835.0
228.80	848.0
230.50	301.0
233.80	623.0
235.00	404.0
235.90	505.0
236.75	321.0
240.15	279.0
240.85	558.0
241.95	1116.0
242.65	1031.0
244.05	11039.0
244.95	882.0
245.95	3076.0
246.70	787.0
248.70	322.0
252.80	433.0
255.00	57848.0
256.00	8074.0
256.95	671.0
257.85	4847.0
259.65	311.0
264.95	2698.0
270.60	265.0
271.60	253.0
272.90	1909.0
274.00	4344.0
275.00	27320.0
276.00	3094.0
276.90	2398.0
282.75	351.0
284.85	324.0
292.20	321.0
292.80	431.0
293.90	279.0
296.00	9057.0
297.00	863.0
302.75	584.0
313.80	698.0
314.80	1307.0
322.85	1630.0
326.95	484.0
328.05	365.0
333.80	1311.0
335.10	463.0
345.85	882.0
351.80	779.0
352.80	262.0
353.90	690.0
354.80	290.0
364.95	3575.0
365.65	621.0
371.05	255.0
371.90	1264.0
382.65	387.0
401.80	623.0
402.90	505.0
420.80	410.0
421.90	447.0

423.00	4602.0
423.90	873.0
441.00	16392.0
442.00	93096.0
443.00	19928.0
443.90	911.0

Scan 1205 (16.413 min): BA041322.D
DFTPPBA0017

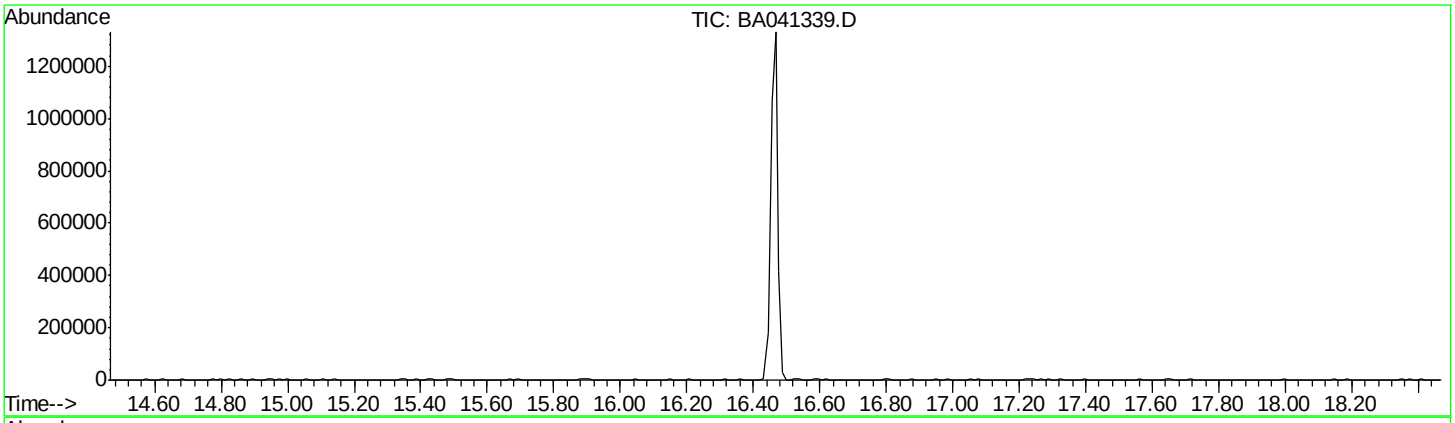
m/z	Abundance
39.80	1373.0
85.50	264.0
90.95	282.0
99.85	256.0

DFTPP

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041339.D
Acq On : 21 Oct 2008 2:23
Operator : HNP
Sample : DFTPPBA0016
Misc : DFTPP16
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Oct 20 11:13:32 2008



AutoFind: Scans 1186, 1187, 1188; Background Corrected with Scan 1182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	49.6	58003	PASS
68	69	0.00	2	0.9	566	PASS
69	198	0.00	100	56.5	66100	PASS
70	69	0.00	2	0.3	231	PASS
127	198	10	80	40.2	47064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	116930	PASS
199	198	5	9	7.6	8906	PASS
275	198	10	60	18.3	21365	PASS
365	198	1	100	1.6	1861	PASS
441	443	0.01	100	66.6	8491	PASS
442	198	50	100	55.0	64328	PASS
443	442	15	24	19.8	12751	PASS

Scan 1186 (16.455 min): BA041339.D
DFTPPBA0016

m/z	Abundance
36.65	701.0
37.90	2789.0
39.00	8399.0
39.90	2299.0
41.00	592.0
48.85	952.0
50.05	23696.0
51.05	79312.0
51.95	2917.0
56.05	3198.0
57.05	7056.0
57.75	302.0
61.00	485.0
62.00	1977.0
63.00	2789.0
63.80	397.0
64.80	699.0
68.10	1700.0
68.95	87936.0
73.05	659.0
74.05	7507.0
74.95	10948.0
75.95	4270.0
77.05	72904.0
78.05	2969.0
78.95	4283.0
80.00	5193.0
80.90	5075.0
82.00	1491.0
82.90	1934.0
84.90	1265.0
85.90	1374.0
87.00	590.0
88.00	740.0
89.85	325.0
90.95	993.0
91.85	1152.0
93.05	10767.0
93.95	1220.0
95.95	263.0
96.65	580.0
97.95	7852.0
99.05	4421.0
99.95	783.0
101.00	2831.0
102.00	315.0
102.90	745.0
104.10	1892.0
104.80	919.0
107.00	21640.0
108.00	4358.0
110.00	36904.0
110.95	5937.0
111.85	392.0
112.75	323.0
115.95	1722.0
116.95	16856.0
117.95	1317.0
121.90	1983.0
123.00	1761.0
123.80	1388.0
124.90	647.0
127.00	57224.0
128.10	5343.0
129.00	30400.0
130.00	3198.0
130.80	562.0
133.95	935.0
134.95	1887.0
135.95	1374.0
136.95	972.0
140.95	3323.0
142.00	1402.0
142.90	870.0
143.70	416.0
144.90	414.0
145.90	710.0
147.00	2348.0
148.00	3937.0
148.80	438.0
149.80	553.0
150.90	418.0
151.90	366.0
152.95	1050.0
153.95	550.0
154.85	1869.0
155.85	2556.0
156.85	532.0
157.75	257.0
158.85	266.0
159.95	636.0

160.95	2027.0
161.85	414.0
164.90	622.0
166.00	1211.0
167.00	6898.0
168.00	2176.0
170.60	420.0
172.00	392.0
173.95	1415.0
174.95	1695.0
176.15	718.0
176.95	1560.0
177.75	532.0
178.95	4460.0
179.95	3462.0
180.95	1520.0
183.05	266.0
183.70	401.0
184.90	2503.0
186.00	16712.0
187.00	4396.0
187.90	546.0
189.00	1965.0
189.80	340.0
190.60	354.0
191.90	1652.0
193.00	1904.0
193.70	440.0
195.95	3747.0
197.95	128256.0
198.95	10043.0
199.75	720.0
202.85	1199.0
204.05	3847.0
205.00	6373.0
206.00	28464.0
207.00	2987.0
207.90	412.0
209.00	272.0
209.90	432.0
210.80	1050.0
216.95	8236.0
217.85	1282.0
220.95	3937.0
222.85	2223.0
224.05	14050.0
224.95	3198.0
225.90	411.0
226.90	6248.0
227.90	932.0
228.80	899.0
229.90	289.0
230.70	368.0
233.80	571.0
234.80	590.0
240.85	422.0
241.55	335.0
241.85	338.0
242.95	450.0
243.95	10184.0
244.95	1755.0
245.95	1039.0
246.60	347.0
252.80	272.0
255.00	49400.0
255.90	9367.0
256.60	723.0
257.95	2603.0
264.85	1282.0
270.70	345.0
272.90	1261.0
274.00	2764.0
275.00	19288.0
276.00	2250.0
276.90	1109.0
277.85	262.0
292.60	359.0
295.90	5436.0
297.00	595.0
301.75	308.0
302.85	397.0
303.95	325.0
314.90	609.0
315.70	335.0
322.95	1453.0
323.75	281.0
332.80	296.0
333.80	1228.0
351.80	356.0
352.80	595.0
353.70	356.0
364.75	1278.0
371.80	397.0
421.80	332.0
423.00	1869.0

424.00	493.0
440.90	4738.0
442.00	34376.0
443.00	10015.0
443.90	310.0

Scan 1187 (16.467 min): BA041339.D
DFTPPBA0016

m/z	Abundance
36.95	555.0
37.90	1064.0
39.00	7176.0
39.90	1312.0
50.05	22368.0
51.05	80176.0
51.95	2756.0
54.85	265.0
55.85	3151.0
57.05	5003.0
60.90	1187.0
61.80	1117.0
63.10	2123.0
65.00	626.0
66.80	448.0
68.95	94632.0
69.75	693.0
72.85	614.0
74.05	7096.0
74.95	10797.0
76.05	3412.0
77.05	59936.0
78.05	2595.0
79.05	4498.0
79.90	3725.0
81.00	6612.0
81.90	1904.0
82.90	788.0
84.00	268.0
84.90	592.0
85.90	2406.0
87.10	1057.0
87.80	639.0
90.85	629.0
91.85	2377.0
92.95	11541.0
98.05	7056.0
98.95	6301.0
99.95	521.0
101.00	4197.0
103.10	573.0
104.00	1361.0
104.90	2731.0
107.00	21176.0
108.00	3014.0
108.90	824.0
110.00	40824.0
110.95	5804.0
112.45	268.0
115.05	251.0
115.95	1840.0
116.95	17184.0
117.95	2196.0
118.95	541.0
122.00	1766.0
122.90	2699.0
124.00	1207.0
124.90	1064.0
127.00	68664.0
128.00	4738.0
129.00	29256.0
129.90	2384.0
131.85	266.0
132.65	571.0
133.75	442.0
134.95	2356.0
135.75	1695.0
136.95	1343.0
138.05	332.0
141.05	3660.0
141.90	989.0
142.80	715.0
146.00	1136.0
146.90	1148.0
147.90	5514.0
148.90	1244.0
150.90	571.0
152.85	1094.0
154.15	839.0
154.95	2839.0
155.95	2748.0
156.95	1148.0
157.85	774.0
158.75	588.0
160.05	1616.0
160.75	1616.0
162.05	397.0
164.90	1928.0
166.00	1282.0
166.90	6840.0
167.90	2934.0

168.90	268.0
171.90	1220.0
172.90	639.0
173.85	1679.0
174.95	4018.0
175.85	867.0
176.85	1388.0
178.85	5529.0
179.95	4564.0
180.75	1124.0
184.00	318.0
185.00	2650.0
186.00	19824.0
187.00	6091.0
187.90	662.0
188.90	1496.0
191.00	688.0
191.90	1846.0
192.90	2580.0
193.90	312.0
194.95	546.0
195.95	3412.0
197.95	166848.0
198.95	11573.0
199.85	1140.0
201.25	732.0
202.95	2627.0
204.05	5722.0
205.00	9134.0
206.00	33448.0
207.00	4113.0
207.90	1462.0
209.10	550.0
209.80	855.0
210.80	1269.0
215.00	335.0
215.85	1397.0
216.95	11477.0
217.85	1477.0
221.05	8661.0
223.05	2209.0
224.05	20544.0
224.95	6195.0
227.00	11801.0
227.90	1261.0
228.90	2406.0
230.70	476.0
232.70	307.0
234.80	969.0
235.90	401.0
236.85	983.0
238.95	491.0
239.85	257.0
240.75	474.0
241.75	821.0
242.95	1224.0
244.05	13330.0
244.95	2058.0
245.85	2052.0
246.90	395.0
248.70	777.0
252.70	422.0
255.00	82608.0
256.00	9959.0
257.05	1356.0
257.95	4779.0
258.75	312.0
264.95	1800.0
265.85	269.0
270.90	313.0
273.00	2123.0
274.00	5641.0
275.00	32368.0
276.00	4053.0
276.90	2306.0
277.95	318.0
278.25	320.0
292.00	262.0
292.90	830.0
296.00	9822.0
296.70	667.0
301.55	485.0
302.95	754.0
303.75	299.0
314.00	317.0
314.70	1028.0
315.80	602.0
320.95	259.0
322.05	347.0
322.95	2377.0
326.75	357.0
331.80	271.0
333.00	497.0
334.00	1783.0
334.90	403.0

345.65	375.0
351.90	592.0
353.00	497.0
353.90	521.0
364.85	3382.0
365.85	444.0
372.00	1834.0
372.70	609.0
391.05	251.0
401.80	555.0
402.80	390.0
403.85	604.0
420.80	485.0
423.00	4173.0
423.90	1068.0
441.00	13857.0
442.00	95664.0
443.00	16308.0
443.90	1570.0

Scan 1188 (16.478 min): BA041339.D
DFTPPBA0016

m/z	Abundance
38.10	333.0
39.00	1291.0
39.80	2039.0
48.65	330.0
49.95	4421.0
51.05	14523.0
52.05	370.0
52.85	304.0
55.75	361.0
56.95	583.0
61.90	265.0
63.00	288.0
68.95	15733.0
74.05	1090.0
74.95	1904.0
75.85	754.0
77.05	13780.0
77.85	1098.0
78.95	1050.0
79.70	1304.0
80.90	2123.0
82.80	474.0
86.00	683.0
86.90	280.0
91.75	583.0
92.85	3293.0
97.85	1420.0
99.05	1828.0
100.90	397.0
103.80	277.0
104.80	432.0
107.00	5061.0
107.90	743.0
110.00	9185.0
110.85	1090.0
116.95	4603.0
117.85	386.0
121.80	622.0
122.90	325.0
123.90	678.0
127.00	15305.0
127.90	1540.0
129.00	7742.0
134.85	631.0
135.95	274.0
136.95	350.0
140.85	1105.0
142.80	305.0
146.90	989.0
147.90	1679.0
148.70	403.0
152.95	442.0
154.75	337.0
155.85	440.0
159.95	493.0
164.70	277.0
166.00	405.0
167.00	2756.0
167.90	791.0
169.20	304.0
171.80	345.0
173.10	271.0
173.95	432.0
174.85	1083.0
175.95	289.0
176.85	833.0
178.85	1383.0
179.75	1291.0
184.90	809.0
186.00	6898.0
186.80	1411.0
188.80	555.0
191.90	665.0
195.25	392.0
195.95	1068.0
196.45	715.0
197.95	55688.0
198.85	5104.0
199.75	263.0
203.05	283.0
203.95	1898.0
204.80	2943.0
205.90	12166.0
206.90	2149.0
207.70	546.0
208.70	300.0
209.90	271.0
210.90	497.0
215.65	438.0
216.85	3141.0
220.85	3207.0

223.05	983.0
224.05	6266.0
224.95	1971.0
226.90	2874.0
227.70	508.0
228.90	458.0
241.85	285.0
242.85	323.0
244.05	5405.0
244.95	788.0
245.85	874.0
253.30	300.0
255.00	29984.0
255.90	3086.0
256.95	436.0
257.85	1453.0
264.85	680.0
272.90	1155.0
273.80	2285.0
275.00	12439.0
275.90	1467.0
276.80	1652.0
296.00	4724.0
296.80	617.0
302.85	275.0
313.10	262.0
313.70	262.0
314.70	392.0
322.75	928.0
332.90	277.0
333.90	597.0
340.75	438.0
351.70	588.0
364.85	925.0
365.85	399.0
371.80	846.0
402.20	436.0
420.90	354.0
422.90	3274.0
423.90	366.0
441.00	6879.0
442.00	62944.0
443.00	11932.0
443.80	1121.0

Scan 1182 (16.408 min): BA041339.D
DFTPPBA0016

m/z	Abundance
39.80	996.0
42.90	308.0
43.80	426.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177B

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041294.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177B

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041294.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.3	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PB37177B

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041294.D

Level: (TRACE or LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

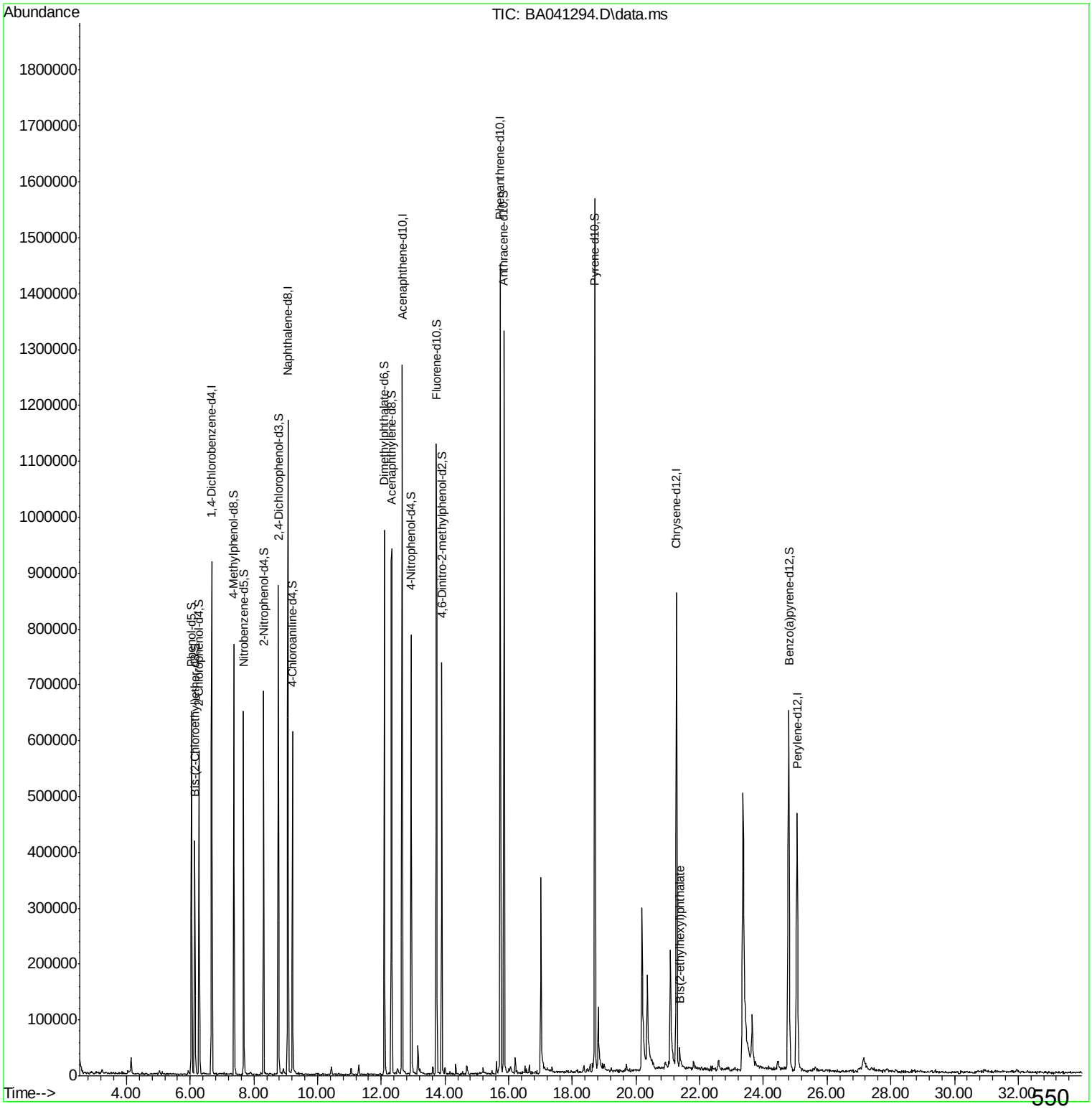
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.01	5.4	JN
02.	1120-16-7	Dodecanamide	18.81	3.2	JN
03.	90949-53-4	7-Nonenamide	20.19	8.2	JN
04.	629-54-9	Hexadecanamide	20.36	4.9	JN
05.	1454-85-9	1-Heptadecanol	21.08	7.1	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.36	25	JN
07.	111-02-4	2,6,10,14,18,22-Tetracosahexaen	23.64	3.4	JN
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

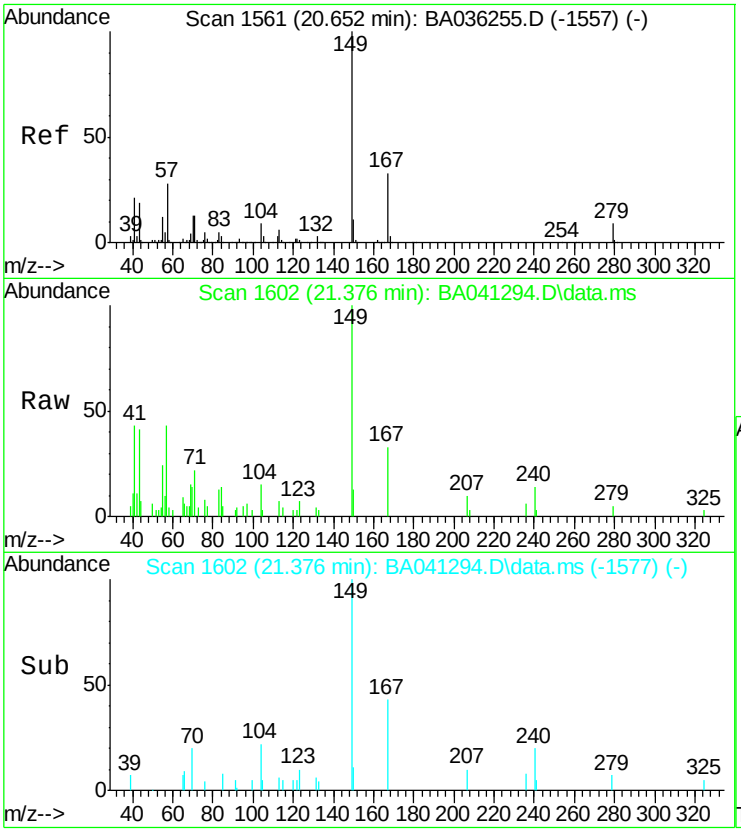
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:01:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

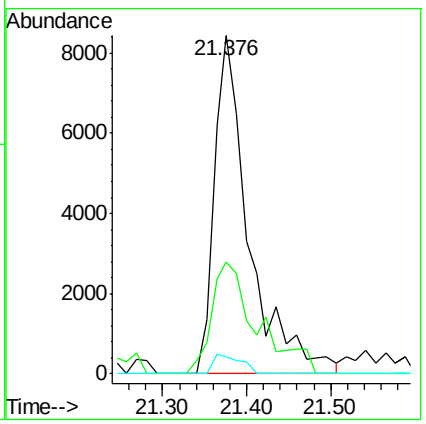




#79
Bis(2-ethylhexyl)phthalate
Concen: 1.27 ng/ul
RT: 21.376 min Scan# 1602
Delta R.T. -0.007 min
Lab File: BA041294.D
Acq: 19 Oct 2008 17:57

Tgt Ion:149 Resp: 24153

Ion	Ratio	Lower	Upper
149	100		
167	33.1	26.2	39.4
279	4.8	7.7	11.5#



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:01:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.678	152	227354	20.00	ng/ul	0.00
16) Naphthalene-d8	9.068	136	729640	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.657	164	517476	20.00	ng/ul	-0.01
59) Phenanthrene-d10	15.739	188	885473	20.00	ng/ul	-0.02
73) Chrysene-d12	21.269	240	677859	20.00	ng/ul	-0.02
81) Perylene-d12	25.059	264	637460	20.00	ng/ul	-0.02
System Monitoring Compounds						
3) Phenol-d5	6.042	99	230723	16.76	ng/ul	-0.02
5) Bis-(2-Chloroethyl)eth...	6.149	67	147892	15.85	ng/ul	0.00
7) 2-Chlorophenol-d4	6.278	132	197076	16.85	ng/ul	-0.01
11) 4-Methylphenol-d8	7.371	113	166859	17.87	ng/ul	-0.02
17) Nitrobenzene-d5	7.677	128	113295	17.54	ng/ul	-0.02
20) 2-Nitrophenol-d4	8.302	143	128644	16.18	ng/ul	-0.02
24) 2,4-Dichlorophenol-d3	8.773	165	237715	16.15	ng/ul	-0.02
27) 4-Chloroaniline-d4	9.209	131	218300	15.00	ng/ul	-0.01
41) Dimethylphthalate-d6	12.104	166	619027	17.96	ng/ul	-0.01
44) Acenaphthylene-d8	12.328	160	729470	17.41	ng/ul	-0.01
49) 4-Nitrophenol-d4	12.940	143	153497	21.85	ng/ul	-0.02
55) Fluorene-d10	13.730	176	486679	17.56	ng/ul	-0.01
60) 4,6-Dinitro-2-methylph...	13.895	200	169134	18.46	ng/ul	-0.02
68) Anthracene-d10	15.856	188	884176	20.86	ng/ul	0.00
74) Pyrene-d10	18.707	212	1075549	36.31	ng/ul	-0.01
85) Benzo(a)pyrene-d12	24.799	264	865425	24.93	ng/ul	-0.02
Target Compounds						Qvalue
79) Bis(2-ethylhexyl)phtha...	21.376	149	24153	1.27	ng/ul#	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041294.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.672	10	13	15	rBV2	3121	8688	0.31%	0.022%
2	2.778	19	22	25	rBV2	3354	7087	0.25%	0.018%
3	3.211	56	59	60	rBV2	5958	11991	0.43%	0.031%
4	4.045	127	130	133	rBV3	7113	18453	0.66%	0.047%
5	4.140	136	138	144	rVB	29176	57758	2.07%	0.149%
6	5.032	211	214	218	rBV3	6552	13580	0.49%	0.035%
7	5.125	220	222	224	rBV2	5265	7005	0.25%	0.018%
8	5.948	288	292	293	rBV2	6452	11916	0.43%	0.031%
9	6.042	297	300	306	rVV	649415	937890	33.64%	2.414%
10	6.149	306	309	317	rVV	417654	620968	22.27%	1.598%
11	6.278	317	320	328	rVB	579499	937777	33.63%	2.413%
12	6.395	328	330	332	rBV2	2675	6182	0.22%	0.016%
13	6.678	351	354	360	rVB	918369	1508708	54.11%	3.882%
14	7.371	410	413	416	rBV	771214	1055394	37.85%	2.716%
15	7.677	436	439	442	rBV	650589	956827	34.32%	2.462%
16	7.901	455	458	459	rVB3	4536	8025	0.29%	0.021%
17	8.219	483	485	486	rBV	4864	6666	0.24%	0.017%
18	8.302	489	492	495	rBV	686965	932572	33.45%	2.400%
19	8.773	529	532	535	rBV	875883	1236996	44.37%	3.183%
20	8.926	543	545	554	rVB6	8735	9004	0.32%	0.023%
21	9.068	554	557	560	rBV	1168701	1630874	58.49%	4.197%
22	9.209	566	569	574	rBV	610473	929923	33.35%	2.393%
23	9.952	629	632	634	rBV	2774	6211	0.22%	0.016%
24	10.175	646	651	652	rVB	3556	7227	0.26%	0.019%
25	10.434	670	673	677	rVB3	15205	35385	1.27%	0.091%
26	10.517	677	680	684	rVB2	2677	6837	0.25%	0.018%
27	11.046	723	725	727	rVB	11012	16833	0.60%	0.043%
28	11.293	742	746	750	rVB2	17708	32286	1.16%	0.083%
29	12.104	811	815	818	rBV	975163	1539930	55.23%	3.963%
30	12.328	830	834	837	rBV	939377	1627948	58.39%	4.189%
31	12.505	846	849	858	rVB5	9655	30198	1.08%	0.078%
32	12.657	858	862	865	rBV	1270271	2065509	74.08%	5.315%
33	12.940	882	886	894	rBV	788104	1307694	46.90%	3.365%
34	13.153	900	904	908	rBV	52016	106316	3.81%	0.274%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.612	940	943	946	rBV3	13357	24844	0.89%	0.064%
36	13.730	950	953	957	rVB	1123202	1820758	65.30%	4.686%
37	13.895	964	967	971	rBV	735643	1121712	40.23%	2.887%
38	14.000	974	976	978	rVB2	11959	20122	0.72%	0.052%
39	14.165	988	990	992	rVB2	5889	7584	0.27%	0.020%
40	14.212	992	994	997	rBV2	2693	6295	0.23%	0.016%
41	14.340	1002	1005	1007	rBV3	19287	30086	1.08%	0.077%
42	14.681	1032	1034	1040	rBV3	15561	42557	1.53%	0.110%
43	14.939	1054	1056	1060	rVB	3603	9160	0.33%	0.024%
44	15.104	1064	1070	1071	rBV2	3980	11951	0.43%	0.031%
45	15.197	1076	1078	1079	rVB	8859	7984	0.29%	0.021%
46	15.480	1099	1102	1104	rBV2	6923	11485	0.41%	0.030%
47	15.621	1112	1114	1117	rBV	22915	31081	1.11%	0.080%
48	15.739	1120	1124	1128	rVV	1445981	2289436	82.11%	5.892%
49	15.856	1130	1134	1138	rBV	1326836	2219059	79.59%	5.710%
50	16.056	1149	1151	1155	rVB2	9492	22082	0.79%	0.057%
51	16.209	1161	1164	1166	rBV	28487	47946	1.72%	0.123%
52	16.514	1188	1190	1192	rBV	12820	18379	0.66%	0.047%
53	16.561	1192	1194	1196	rVV	9156	13288	0.48%	0.034%
54	16.656	1199	1202	1206	rVB4	16226	28815	1.03%	0.074%
55	16.726	1206	1208	1210	rBV2	5558	7644	0.27%	0.020%
56	16.892	1220	1222	1225	rVB3	6189	9963	0.36%	0.026%
57	17.010	1228	1232	1240	rBV2	348971	617405	22.14%	1.589%
58	17.365	1260	1262	1264	rVB2	10611	14601	0.52%	0.038%
59	17.824	1299	1301	1302	rBV2	5232	6277	0.23%	0.016%
60	17.965	1310	1313	1314	rBV2	4265	6831	0.24%	0.018%
61	18.176	1329	1331	1333	rVB	6742	9964	0.36%	0.026%
62	18.365	1344	1347	1350	rVB2	12522	24908	0.89%	0.064%
63	18.554	1360	1363	1367	rVB2	14290	26884	0.96%	0.069%
64	18.637	1368	1370	1372	rBV	14773	25724	0.92%	0.066%
65	18.707	1372	1376	1380	rVV	1560404	2788164	100.00%	7.175%
66	18.814	1382	1385	1395	rVB2	111036	276948	9.93%	0.713%
67	20.193	1498	1502	1510	rBV	284056	710896	25.50%	1.829%
68	20.359	1512	1516	1527	rVB	156710	423900	15.20%	1.091%
69	21.020	1570	1572	1574	rBV3	11666	22412	0.80%	0.058%
70	21.080	1574	1577	1586	rVV2	211555	616141	22.10%	1.586%
71	21.269	1589	1593	1599	rVV	848756	1725903	61.90%	4.441%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	21.376	1599	1602	1609	rVB2	34945	90765	3.26%	0.234%
73	21.802	1636	1638	1642	rBV4	14405	33691	1.21%	0.087%
74	23.360	1765	1770	1783	rBV	491786	1959881	70.29%	5.044%
75	23.643	1791	1794	1801	rVB	92719	264678	9.49%	0.681%
76	24.799	1885	1892	1902	rVB	646279	2121221	76.08%	5.459%
77	25.059	1907	1914	1921	rBV	459510	1548939	55.55%	3.986%
78	27.773	2142	2144	2148	rBV4	5749	15131	0.54%	0.039%
79	30.908	2409	2410	2411	rBV	5881	6719	0.24%	0.017%
80	32.618	2553	2555	2558	rBV	4069	8587	0.31%	0.022%
81	33.278	2609	2611	2614	rVB	3615	5999	0.22%	0.015%
82	33.430	2622	2624	2626	rVB2	4843	7912	0.28%	0.020%

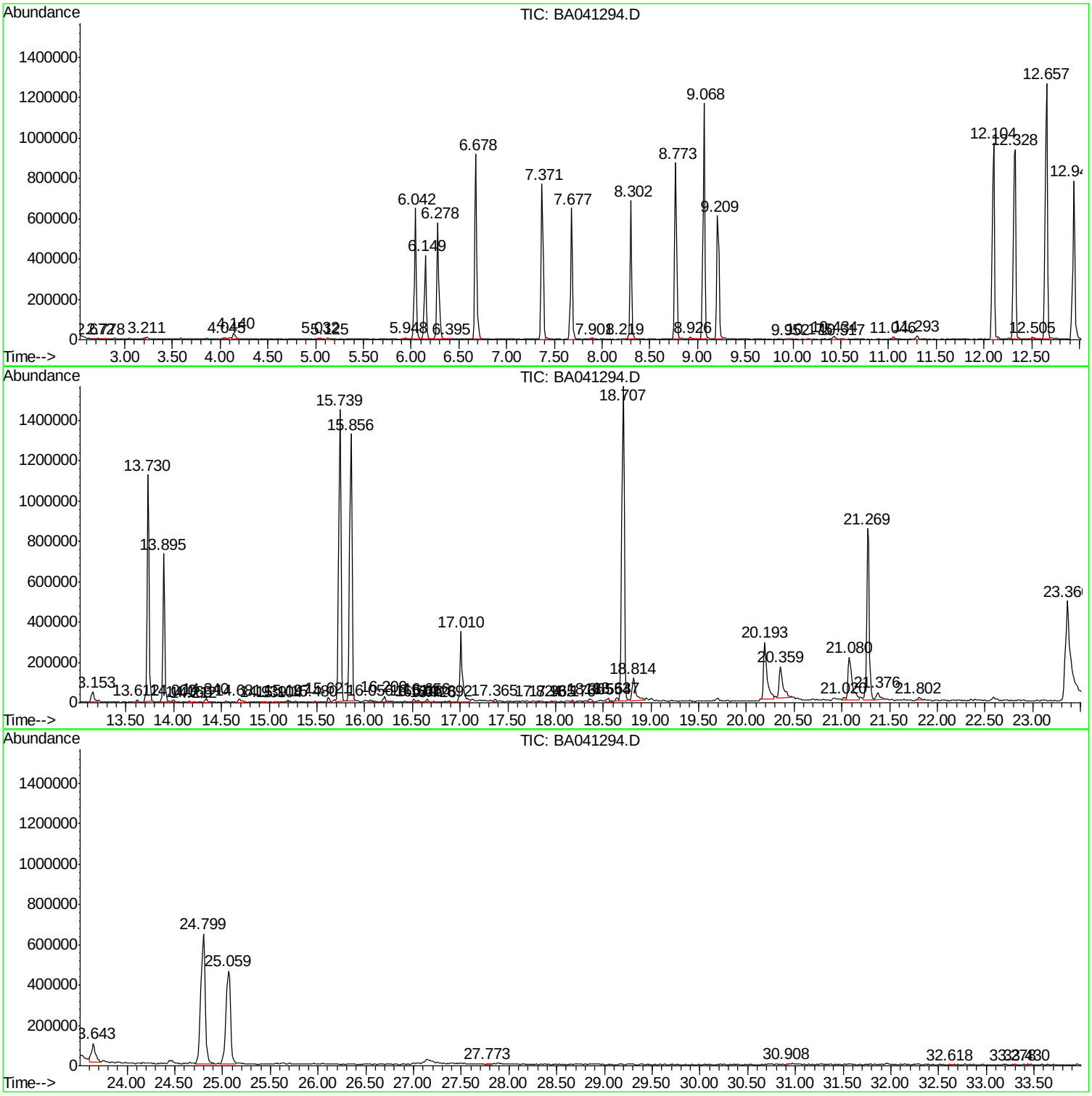
Sum of corrected areas: 38859370

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

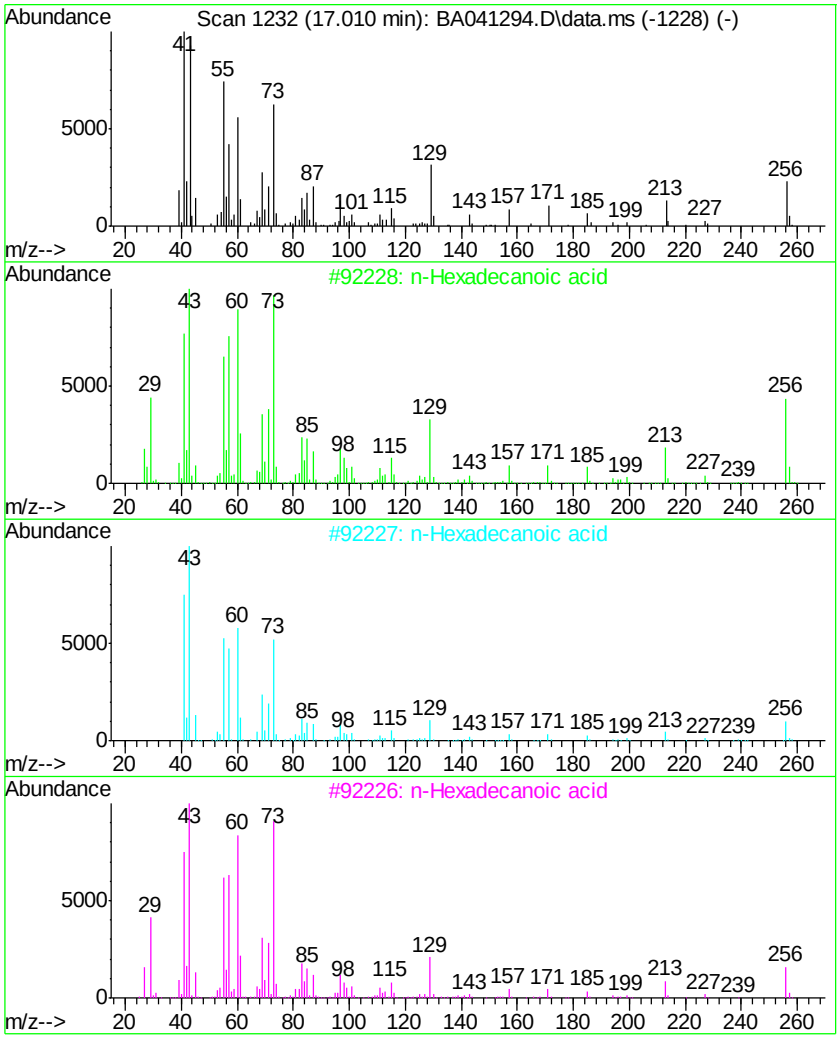
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

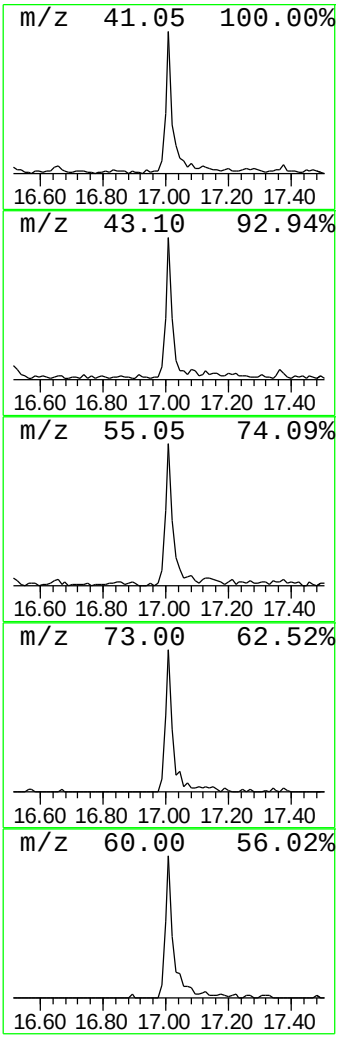
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.010	5.39 ng/ul	617405	Phenanthrene-d10	15.739

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	81
4	Undecanoic acid	186	C11H22O2	000112-37-8	68
5	Tridecanoic acid	214	C13H26O2	000638-53-9	64





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

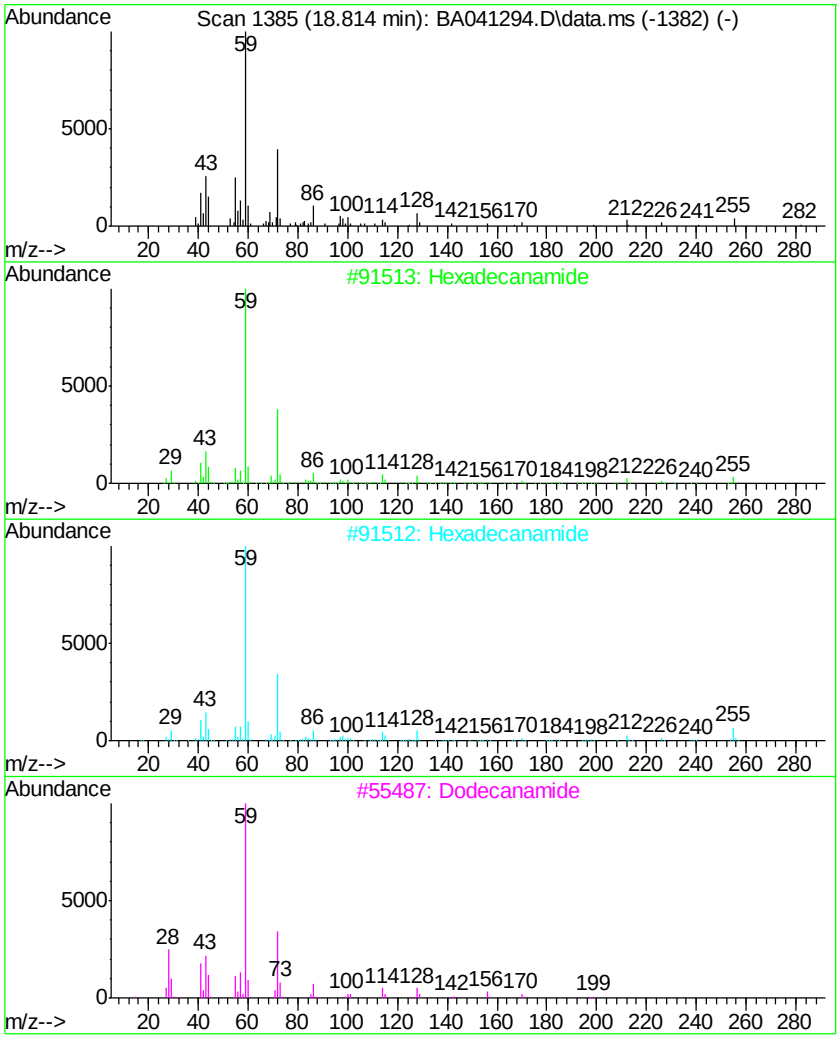
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

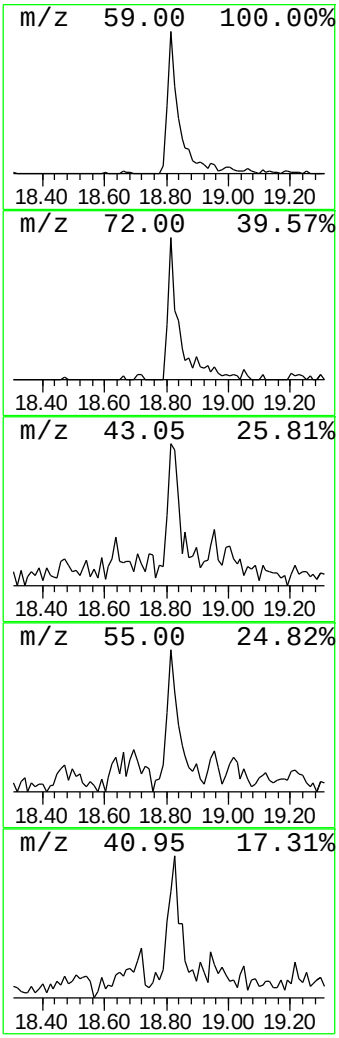
****

Peak Number 2 Dodecanamide Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.810	3.21 ng/ul	276948	Chrysene-d12	21.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	95
2	Hexadecanamide	255	C16H33NO	000629-54-9	91
3	Dodecanamide	199	C12H25NO	001120-16-7	81
4	Tetradecanamide	227	C14H29NO	000638-58-4	78
5	Pentadecanamide, 15-bromo-	319	C15H30BrNO	1000163-86-1	64





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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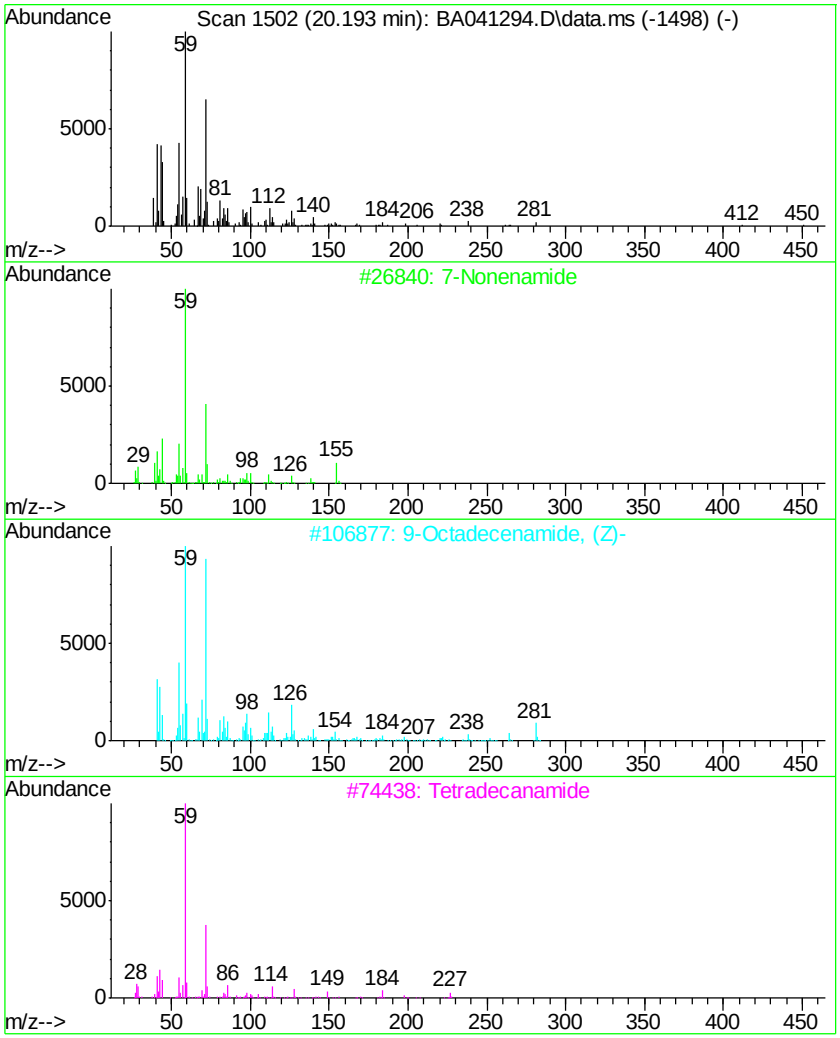
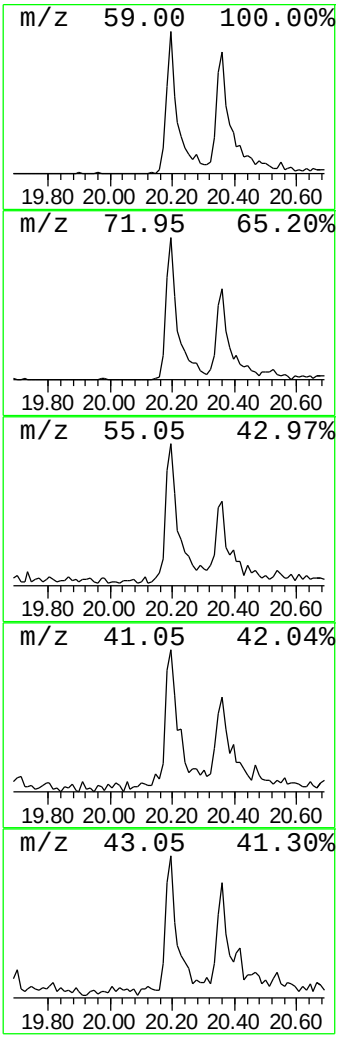
Peak Number 3 7-Nonenamide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.190	8.24 ng/ul	710896	Chrysene-d12	21.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Nonenamide	155	C9H17NO	090949-53-4	64
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	55
3	Tetradecanamide	227	C14H29NO	000638-58-4	53
4	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	53
5	Hexadecanamide	255	C16H33NO	000629-54-9	50





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On    : 19 Oct 2008  17:57
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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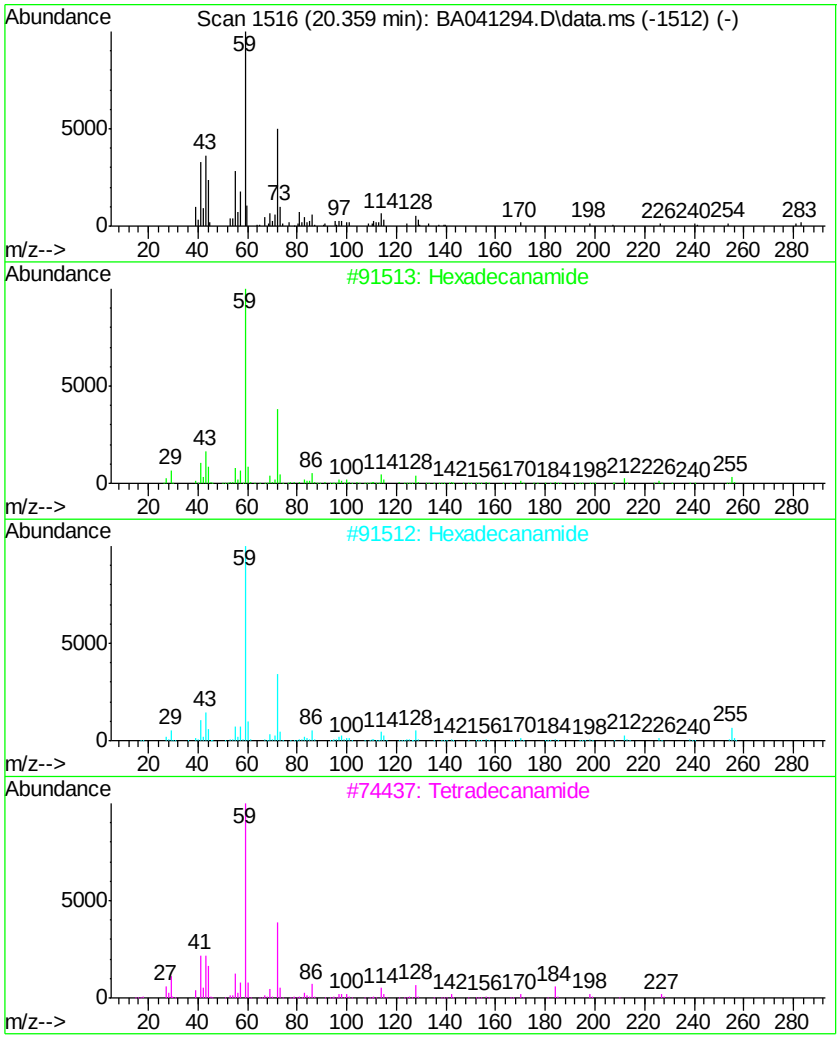
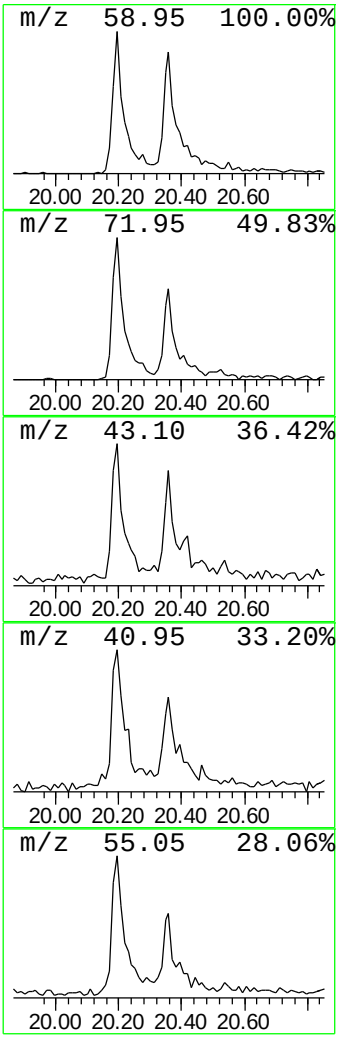
Peak Number 4 Hexadecanamide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.360	4.91 ng/ul	423900	Chrysene-d12	21.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	72
2	Hexadecanamide	255	C16H33NO	000629-54-9	64
3	Tetradecanamide	227	C14H29NO	000638-58-4	59
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	59
5	Tetradecanamide	227	C14H29NO	000638-58-4	59





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On    : 19 Oct 2008  17:57
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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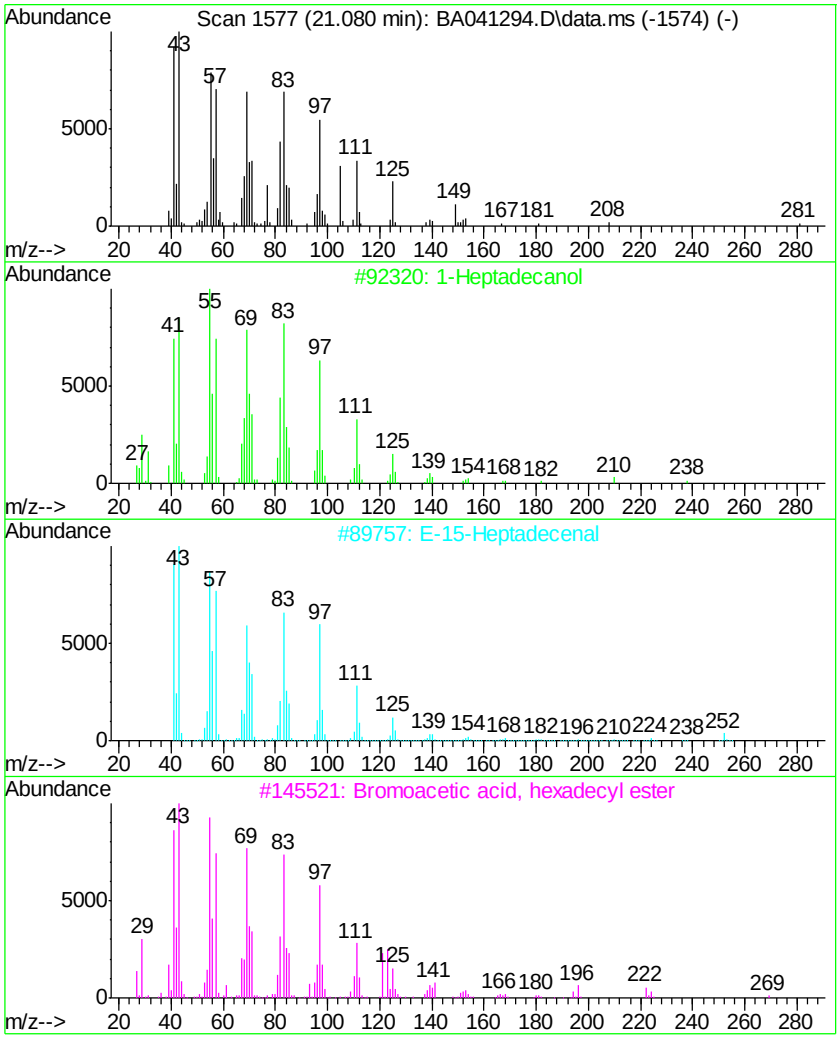
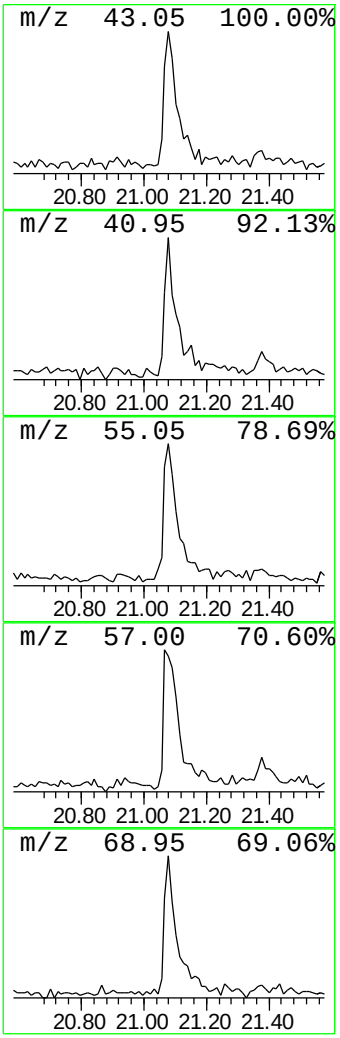
Peak Number 5 1-Heptadecanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.080	7.14 ng/ul	616141	Chrysene-d12	21.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptadecanol	256	C17H36O	001454-85-9	81
2	E-15-Heptadecenal	252	C17H32O	1000130-97-9	70
3	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	68
4	1-Nonadecanol	284	C19H40O	001454-84-8	64
5	Bromoacetic acid, pentadecyl ester	348	C17H33BrO2	131143-01-6	62





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On    : 19 Oct 2008  17:57
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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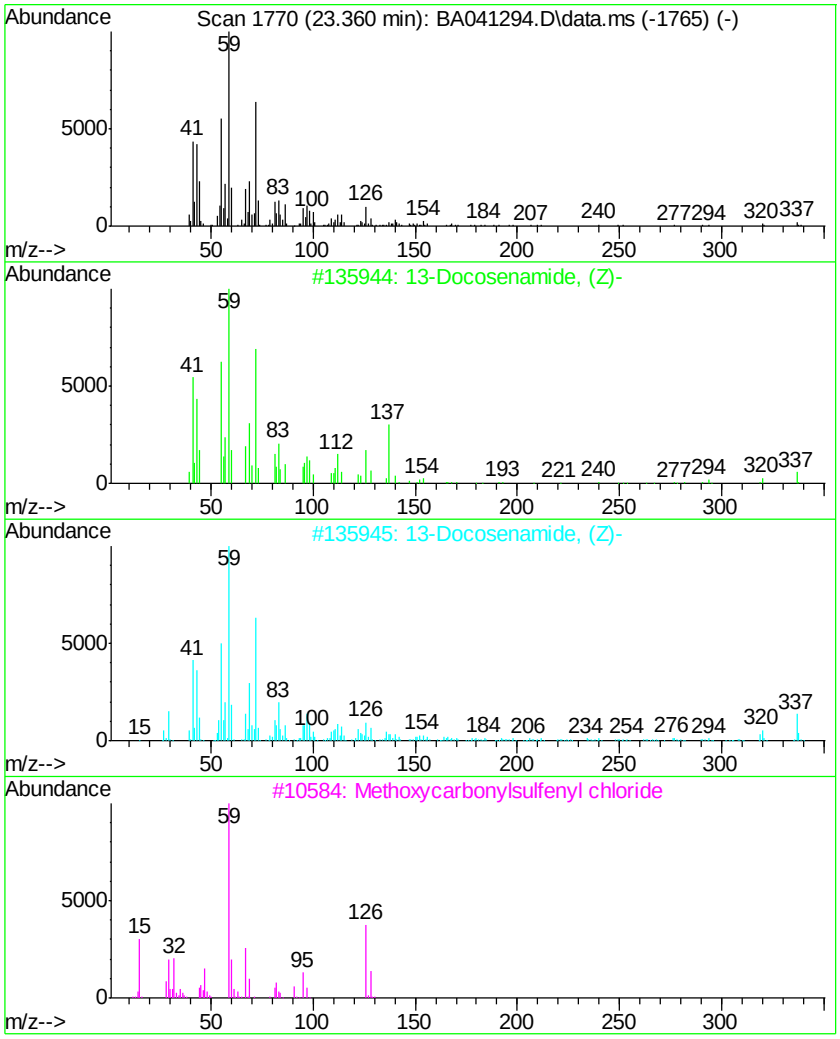
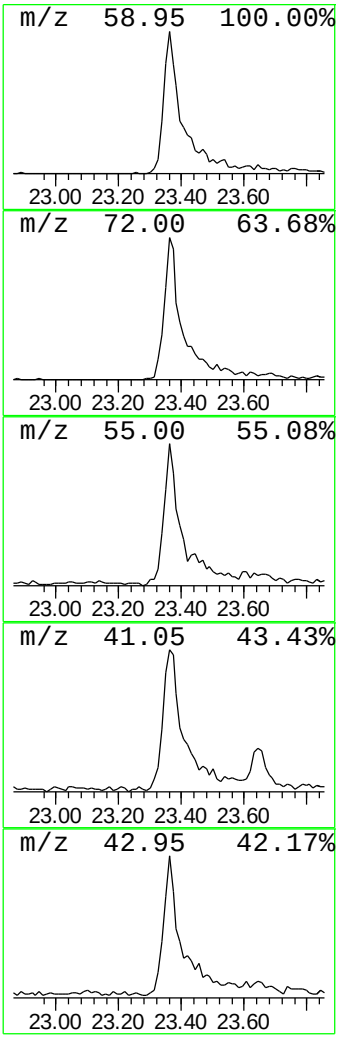
Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.360	25.31 ng/ul	1959880	Perylene-d12	25.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	81
2	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	76
3	Methoxycarbonylsulfenyl chloride	126	C2H3ClO2S	026555-40-8	50
4	d-Glucosamine	179	C6H13NO5	000090-77-7	42
5	7-Nonenamide	155	C9H17NO	090949-53-4	42





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

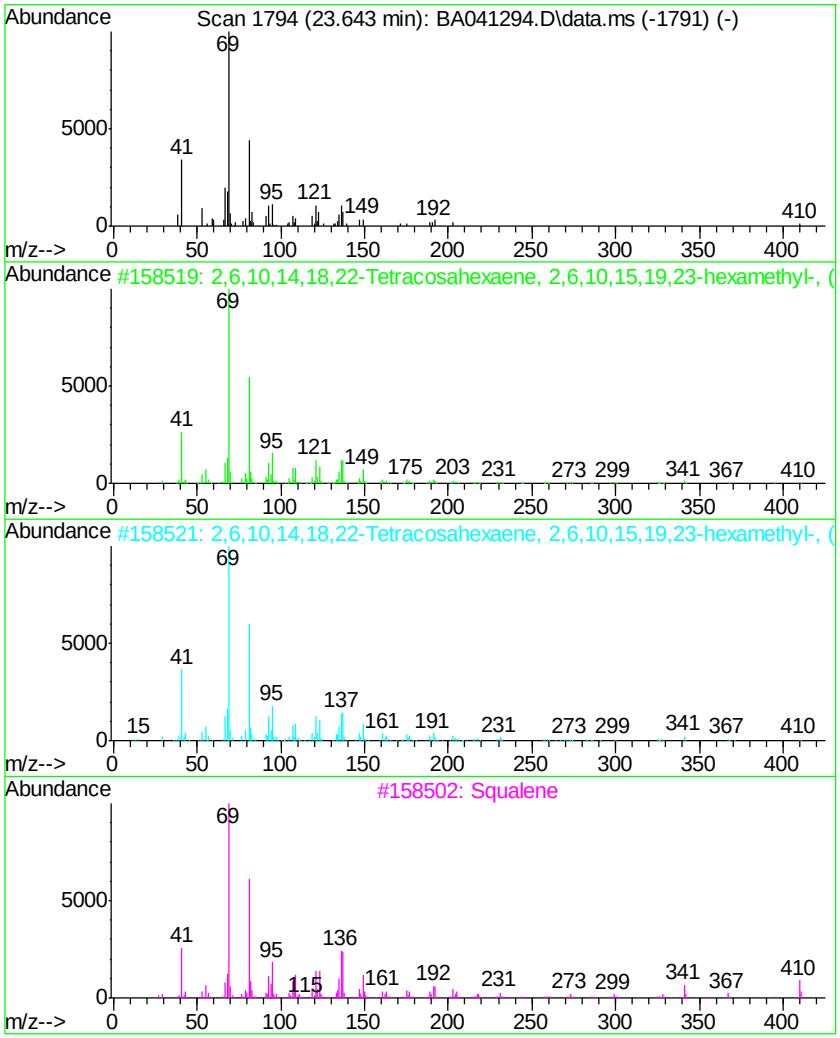
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

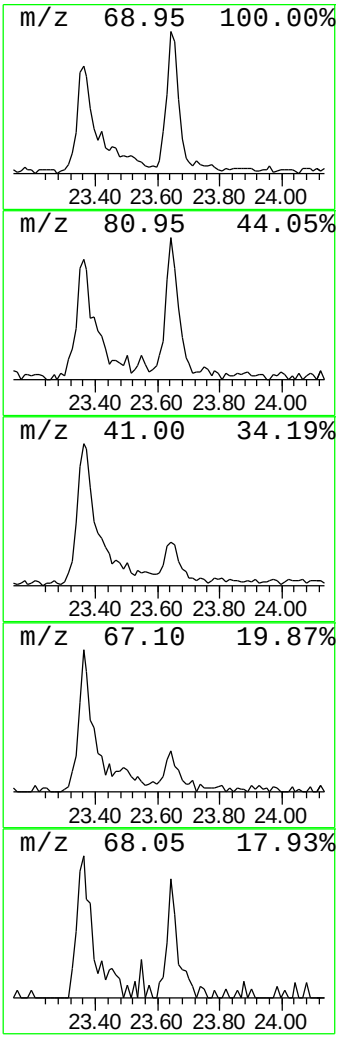
****

Peak Number 7 2,6,10,14,18,22-Tetracosahe... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.640	3.42 ng/ul	264678	Perylene-d12	25.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	87
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	81
3	Squalene	410	C30H50	007683-64-9	74
4	3,7,11-Tridecatrienenitrile, 4,8...	231	C16H25N	006006-01-5	72
5	Squalene	410	C30H50	007683-64-9	68





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic ...	17.010	5.4	ng/ul	617405	4	15.739	2289440	20.0
Dodecanamide	18.810	3.2	ng/ul	276948	5	21.269	1725900	20.0
7-Nonenamide	20.190	8.2	ng/ul	710896	5	21.269	1725900	20.0
Hexadecanamide	20.360	4.9	ng/ul	423900	5	21.269	1725900	20.0
1-Heptadecanol	21.080	7.1	ng/ul	616141	5	21.269	1725900	20.0
13-Docosenamide...	23.360	25.3	ng/ul	1959880	6	25.059	1548940	20.0
2,6,10,14,18,22...	23.640	3.4	ng/ul	264678	6	25.059	1548940	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177BRE

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041301.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177BRE

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041301.D

Level: (LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.3	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK02RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PB37177BRE

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041301.D

Level: (TRACE or LOW/MED) Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.02	4.5	JN
02.	1119-29-5	Pentanamide, 4-methyl-	18.82	2.4	JN
03.	301-02-0	9-Octadecenamide, (Z)-	20.20	7.4	JN
04.	4441-62-7	4-Cyclohexylbutyramide	20.37	5.0	JN
05.	74685-30-6	5-Eicosene, (E)-	21.09	6.4	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.37	25	JN
07.	111-02-4	2,6,10,14,18,22-Tetracosahexaen	23.66	3.4	JN
08.					
09.					
10.					
11.					
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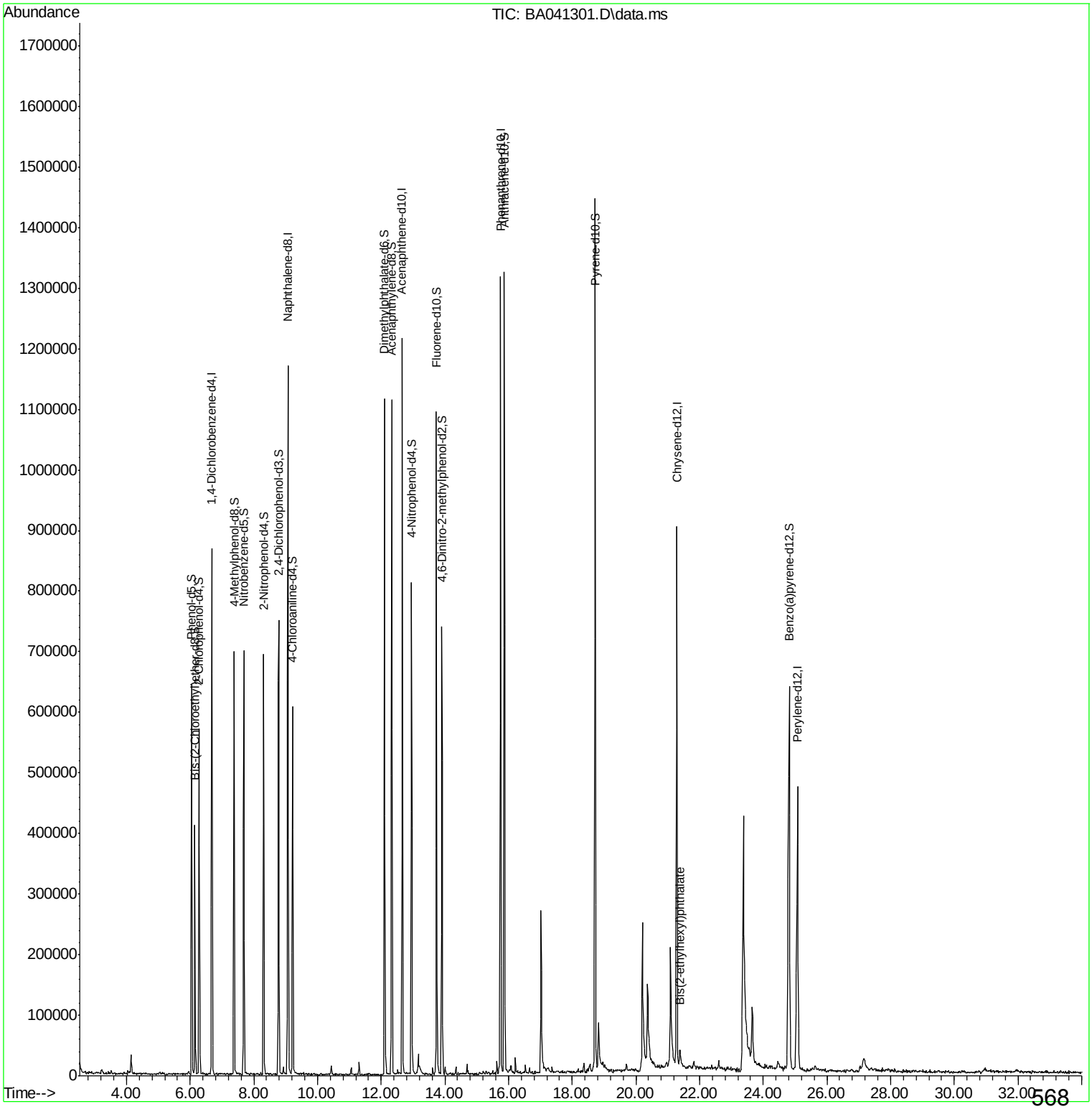
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

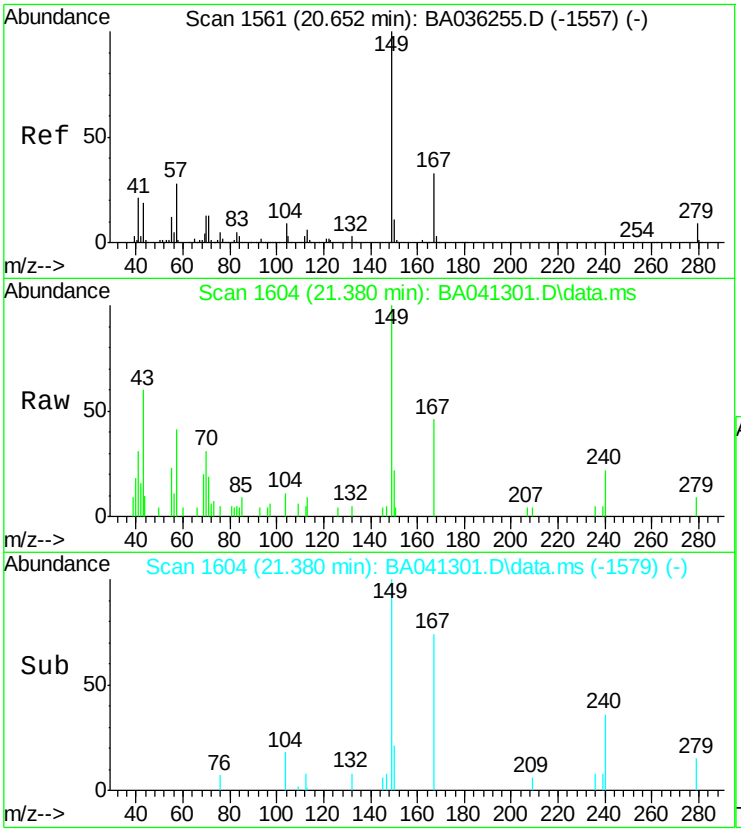
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:11:20 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

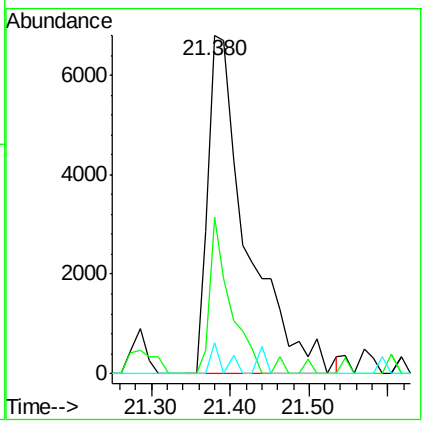




#79
Bis(2-ethylhexyl)phthalate
Concen: 1.30 ng/ul
RT: 21.380 min Scan# 1604
Delta R.T. -0.003 min
Lab File: BA041301.D
Acq: 19 Oct 2008 22:46

Tgt Ion:149 Resp: 23529

Ion	Ratio	Lower	Upper
149	100		
167	46.3	26.2	39.4#
279	9.1	7.7	11.5



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:11:20 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.676	152	221866	20.00	ng/ul	0.00
16) Naphthalene-d8	9.074	136	716685	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.658	164	507672	20.00	ng/ul	-0.01
59) Phenanthrene-d10	15.748	188	873890	20.00	ng/ul	0.00
73) Chrysene-d12	21.285	240	645097	20.00	ng/ul	0.00
81) Perylene-d12	25.076	264	610468	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.044	99	232796	17.33	ng/ul	-0.01
5) Bis-(2-Chloroethyl)eth...	6.150	67	147732	16.22	ng/ul	0.00
7) 2-Chlorophenol-d4	6.279	132	196375	17.20	ng/ul	-0.01
11) 4-Methylphenol-d8	7.382	113	164936	18.10	ng/ul	0.00
17) Nitrobenzene-d5	7.687	128	109525	17.26	ng/ul	0.00
20) 2-Nitrophenol-d4	8.310	143	142141	18.20	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.781	165	221117	15.30	ng/ul	0.00
27) 4-Chloroaniline-d4	9.215	131	210670	14.74	ng/ul	0.00
41) Dimethylphthalate-d6	12.108	166	591208	17.49	ng/ul	0.00
44) Acenaphthylene-d8	12.330	160	709432	17.26	ng/ul	0.00
49) 4-Nitrophenol-d4	12.952	143	149830	21.74	ng/ul	-0.01
55) Fluorene-d10	13.738	176	479881	17.65	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.903	200	164051	18.14	ng/ul	-0.02
68) Anthracene-d10	15.866	188	839979	20.08	ng/ul	0.00
74) Pyrene-d10	18.716	212	1053127	37.36	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.816	264	884832	26.62	ng/ul	0.00
Target Compounds						Qvalue
79) Bis(2-ethylhexyl)phtha...	21.380	149	23529	1.30	ng/ul#	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041301.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.826	24	26	28	rBV	3754	6006	0.23%	0.016%
2	2.908	31	33	38	rVB2	3702	6029	0.23%	0.016%
3	3.237	57	61	63	rBV3	6690	20144	0.76%	0.053%
4	3.425	74	77	79	rBV	5084	8929	0.34%	0.023%
5	3.519	83	85	90	rVB	5851	10758	0.40%	0.028%
6	3.908	117	118	122	rBV3	3586	9778	0.37%	0.026%
7	4.036	128	129	133	rBV2	7089	18775	0.70%	0.049%
8	4.142	135	138	143	rVB	32452	63299	2.38%	0.167%
9	4.484	165	167	170	rBV2	2298	6112	0.23%	0.016%
10	4.964	205	208	210	rBV	2169	5699	0.21%	0.015%
11	5.035	212	214	215	rBV2	3686	5948	0.22%	0.016%
12	5.492	249	253	256	rVB2	2309	7677	0.29%	0.020%
13	5.950	289	292	295	rBV3	4246	11340	0.43%	0.030%
14	6.044	297	300	306	rBV	644298	974532	36.58%	2.563%
15	6.150	306	309	314	rVV	411493	598131	22.45%	1.573%
16	6.279	317	320	326	rVB	569670	930127	34.92%	2.447%
17	6.571	343	345	347	rBV	2252	5495	0.21%	0.014%
18	6.676	351	354	362	rVB	868252	1472842	55.29%	3.874%
19	7.382	410	414	417	rBV	697506	1074121	40.32%	2.825%
20	7.687	437	440	443	rBV	696561	977235	36.68%	2.571%
21	7.887	455	457	461	rBV2	3434	7746	0.29%	0.020%
22	8.215	483	485	488	rBV2	4043	5988	0.22%	0.016%
23	8.310	490	493	496	rBV	692969	966164	36.27%	2.541%
24	8.592	515	517	520	rBV2	2638	6509	0.24%	0.017%
25	8.781	530	533	536	rBV	748982	1207701	45.34%	3.177%
26	8.934	543	546	551	rVB3	13092	21820	0.82%	0.057%
27	9.074	554	558	561	rBV	1168473	1646515	61.81%	4.331%
28	9.215	567	570	578	rBV	606412	930365	34.93%	2.447%
29	9.463	589	591	594	rVB	2844	6395	0.24%	0.017%
30	9.604	601	603	607	rBV2	2179	7586	0.28%	0.020%
31	10.426	671	673	678	rVB2	14621	30928	1.16%	0.081%
32	11.060	723	727	729	rBV2	11459	18942	0.71%	0.050%
33	11.308	745	748	751	rVB2	21446	29275	1.10%	0.077%
34	12.108	813	816	819	rBV	1115197	1534960	57.62%	4.038%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.155	819	820	823	rVB	9707	8454	0.32%	0.022%
36	12.330	832	835	838	rBV	1113958	1638446	61.51%	4.310%
37	12.517	849	851	853	rVB	7633	9187	0.34%	0.024%
38	12.658	860	863	867	rBV	1213475	2041174	76.62%	5.369%
39	12.787	873	874	878	rVB2	3665	6768	0.25%	0.018%
40	12.870	878	881	884	rBV2	2148	5677	0.21%	0.015%
41	12.952	884	888	891	rBV	811692	1285520	48.26%	3.381%
42	13.164	903	906	908	rBV	32011	68640	2.58%	0.181%
43	13.621	942	945	948	rVB2	11945	21691	0.81%	0.057%
44	13.738	952	955	959	rVB	1088633	1789136	67.16%	4.706%
45	13.903	966	969	973	rBV	738682	1137553	42.70%	2.992%
46	14.009	975	978	981	rBV3	13214	26287	0.99%	0.069%
47	14.172	985	992	995	rVB2	4140	17223	0.65%	0.045%
48	14.242	995	998	999	rBV2	3602	7508	0.28%	0.020%
49	14.347	1003	1007	1010	rVB2	13957	25319	0.95%	0.067%
50	14.418	1010	1013	1016	rBV2	3998	6756	0.25%	0.018%
51	14.700	1034	1037	1038	rBV2	15240	20626	0.77%	0.054%
52	15.007	1061	1063	1067	rVB	3863	9175	0.34%	0.024%
53	15.089	1067	1070	1074	rBV2	4655	15036	0.56%	0.040%
54	15.206	1078	1080	1081	rVV	5356	8675	0.33%	0.023%
55	15.300	1085	1088	1091	rVV2	4016	8124	0.30%	0.021%
56	15.501	1103	1105	1107	rVB2	5736	7621	0.29%	0.020%
57	15.630	1113	1116	1119	rBV2	22390	35074	1.32%	0.092%
58	15.701	1119	1122	1123	rBV	13533	21421	0.80%	0.056%
59	15.748	1123	1126	1130	rVV	1313436	2239128	84.06%	5.890%
60	15.866	1132	1136	1140	rBV	1319238	2156146	80.94%	5.672%
61	16.019	1147	1149	1151	rBV2	5312	9404	0.35%	0.025%
62	16.066	1151	1153	1157	rVB2	11098	21204	0.80%	0.056%
63	16.219	1163	1166	1169	rBV	26481	43581	1.64%	0.115%
64	16.525	1190	1192	1196	rBV2	14517	21793	0.82%	0.057%
65	16.664	1201	1204	1207	rVB	9845	16258	0.61%	0.043%
66	16.841	1215	1219	1220	rVB3	5061	10152	0.38%	0.027%
67	16.888	1220	1223	1224	rBV2	2805	6128	0.23%	0.016%
68	17.018	1231	1234	1241	rBV2	268432	508752	19.10%	1.338%
69	17.372	1263	1264	1267	rVB3	10864	14432	0.54%	0.038%
70	17.655	1286	1288	1291	rBV2	3494	7796	0.29%	0.021%
71	17.832	1301	1303	1305	rBV2	4317	10280	0.39%	0.027%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	18.374	1345	1349	1353	rVB2	16290	36603	1.37%	0.096%
73	18.716	1374	1378	1382	rBV	1432362	2663866	100.00%	7.007%
74	18.821	1384	1387	1394	rBV	73246	194508	7.30%	0.512%
75	19.293	1426	1427	1428	rBV	6042	5796	0.22%	0.015%
76	19.565	1448	1450	1451	rBV2	5197	7544	0.28%	0.020%
77	19.707	1460	1462	1465	rVB3	11806	19095	0.72%	0.050%
78	20.201	1501	1504	1513	rBV2	234013	606381	22.76%	1.595%
79	20.367	1515	1518	1530	rVB	131133	406319	15.25%	1.069%
80	21.085	1576	1579	1592	rVV2	191076	523288	19.64%	1.376%
81	21.285	1592	1596	1601	rVV	888729	1638736	61.52%	4.311%
82	21.380	1602	1604	1612	rVB3	28314	88519	3.32%	0.233%
83	22.596	1704	1707	1711	rBV4	14731	36559	1.37%	0.096%
84	23.185	1754	1757	1759	rBV4	6510	13574	0.51%	0.036%
85	23.374	1767	1773	1788	rBV	417914	1880383	70.59%	4.946%
86	23.658	1794	1797	1803	rVB	92340	250849	9.42%	0.660%
87	24.816	1887	1895	1905	rVB	633756	2155013	80.90%	5.669%
88	25.076	1910	1917	1924	rVB	465570	1479303	55.53%	3.891%
89	27.740	2141	2143	2144	rBV2	6689	6991	0.26%	0.018%
90	28.129	2175	2176	2182	rVB3	5535	9446	0.35%	0.025%
91	28.600	2214	2216	2218	rVB3	4446	6130	0.23%	0.016%
92	29.729	2311	2312	2316	rBV3	4112	9770	0.37%	0.026%
93	29.977	2331	2333	2337	rBV4	3023	7789	0.29%	0.020%
94	31.648	2474	2475	2478	rBV2	4601	9012	0.34%	0.024%
95	32.203	2520	2522	2525	rBV3	3898	8599	0.32%	0.023%
96	32.297	2528	2530	2531	rBV	3721	5717	0.21%	0.015%
97	32.450	2541	2543	2544	rBV2	5443	8010	0.30%	0.021%
98	32.744	2566	2568	2571	rVB3	3373	5533	0.21%	0.015%
99	33.485	2630	2631	2636	rVB2	5059	13807	0.52%	0.036%

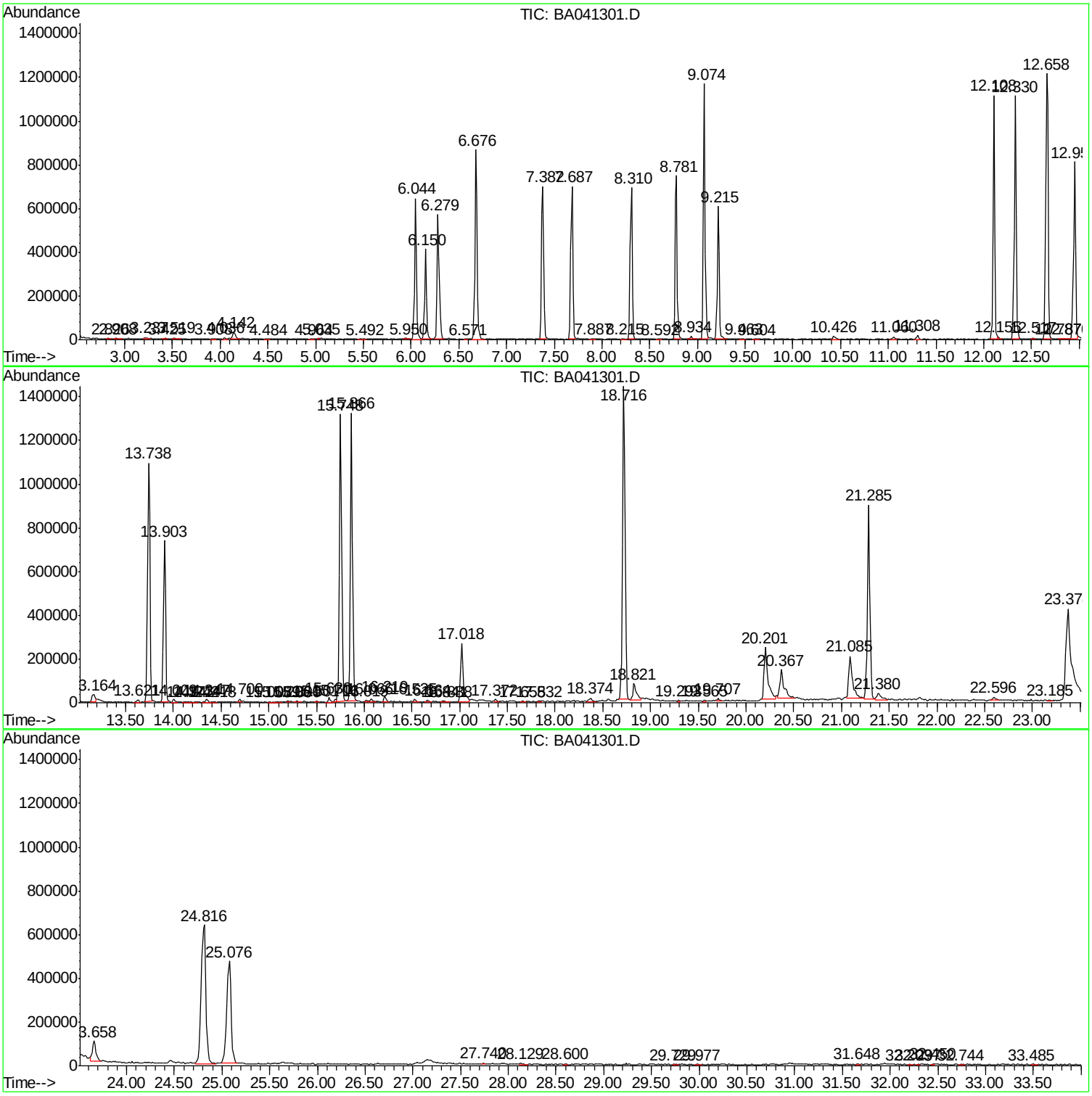
Sum of corrected areas: 38017156

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

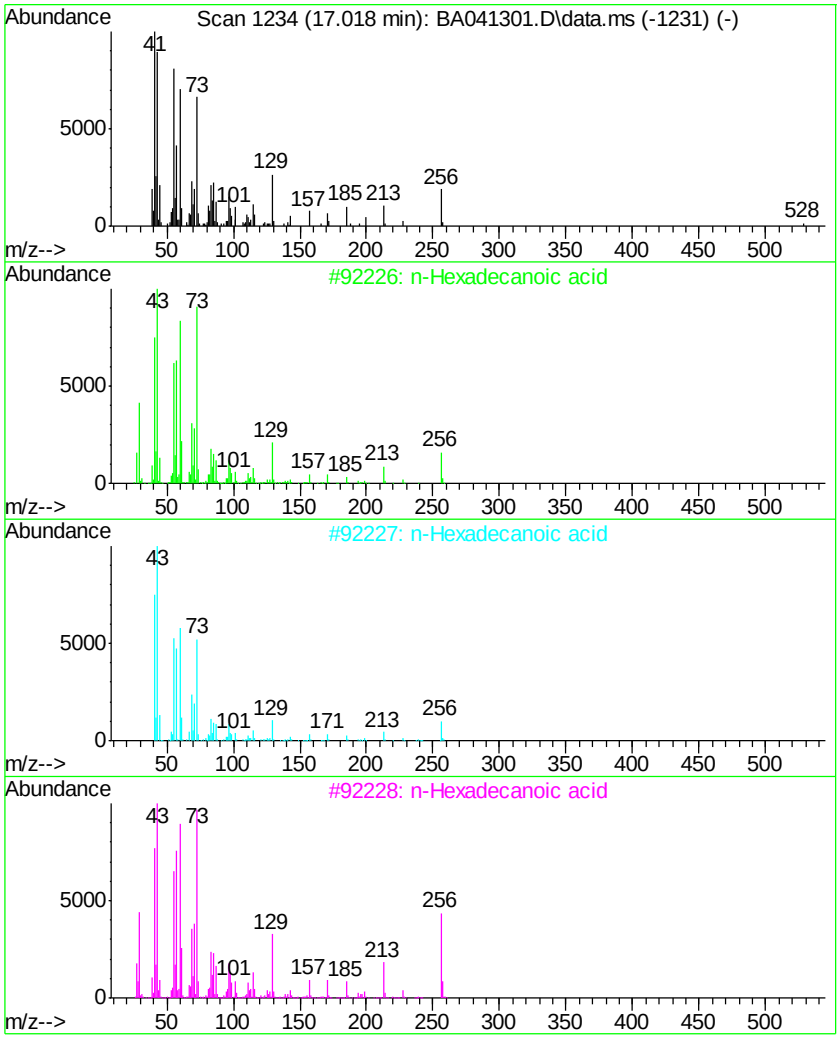
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

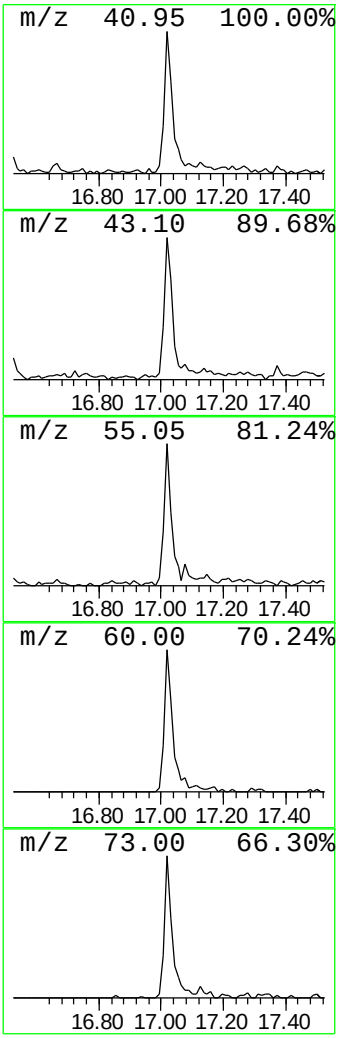
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.020	4.54 ng/ul	508752	Phenanthrene-d10	15.748

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	76
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	62
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	62
4	n-Decanoic acid	172	C10H20O2	000334-48-5	60
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	50





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

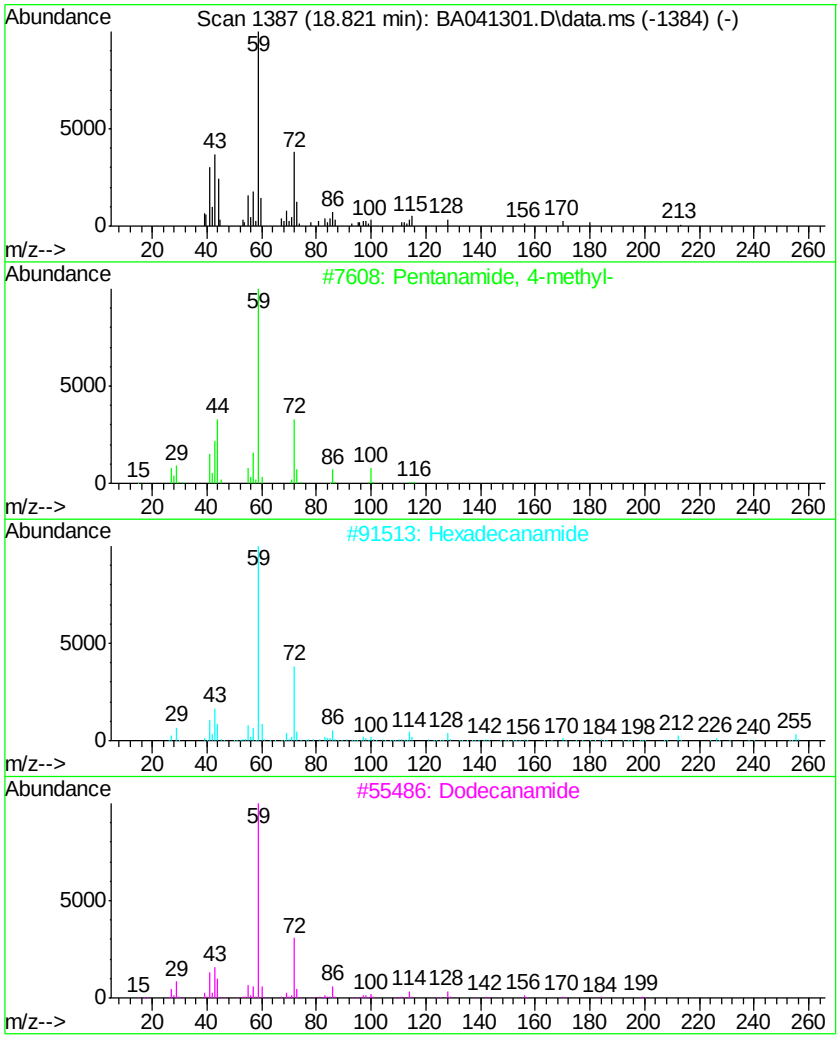
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

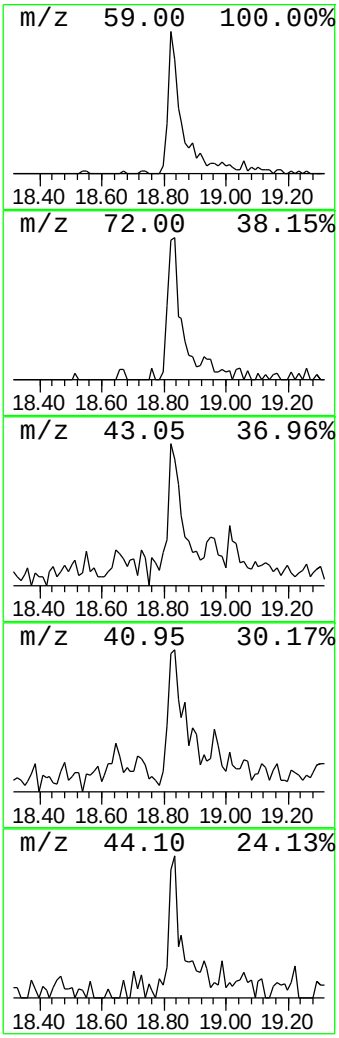
****

Peak Number 2 Pentanamide, 4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.820	2.37 ng/ul	194508	Chrysene-d12	21.285

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	72
2	Hexadecanamide	255	C16H33NO	000629-54-9	64
3	Dodecanamide	199	C12H25NO	001120-16-7	64
4	4-Cyclohexylbutyramide	169	C10H19NO	004441-62-7	64
5	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

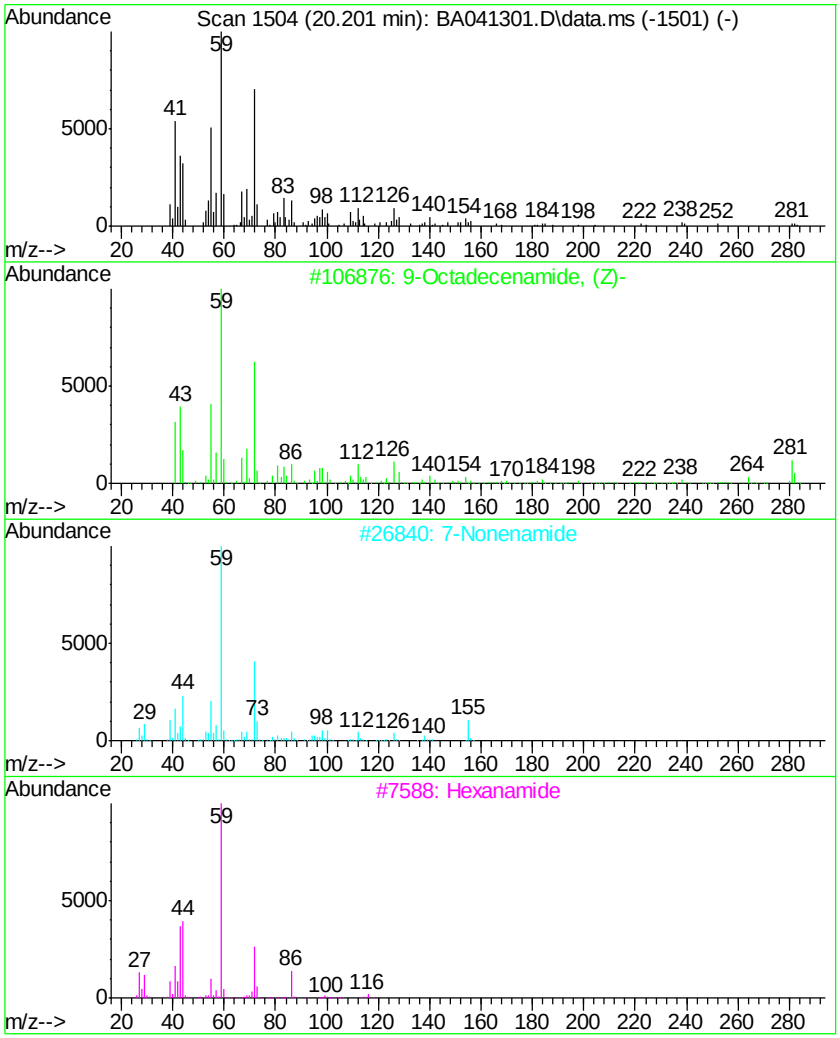
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

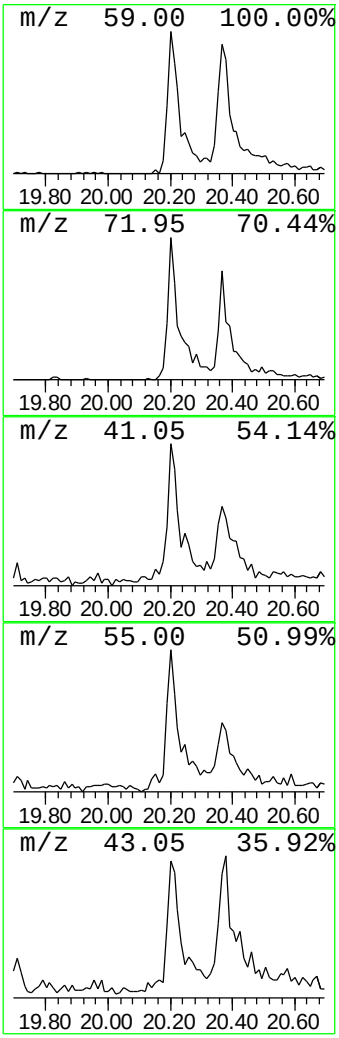
****

Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.200	7.40 ng/ul	606381	Chrysene-d12	21.285

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	90
2	7-Nonenamide	155	C9H17NO	090949-53-4	72
3	Hexanamide	115	C6H13NO	000628-02-4	53
4	Dodecanamide	199	C12H25NO	001120-16-7	50
5	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	50





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On    : 19 Oct 2008  22:46
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

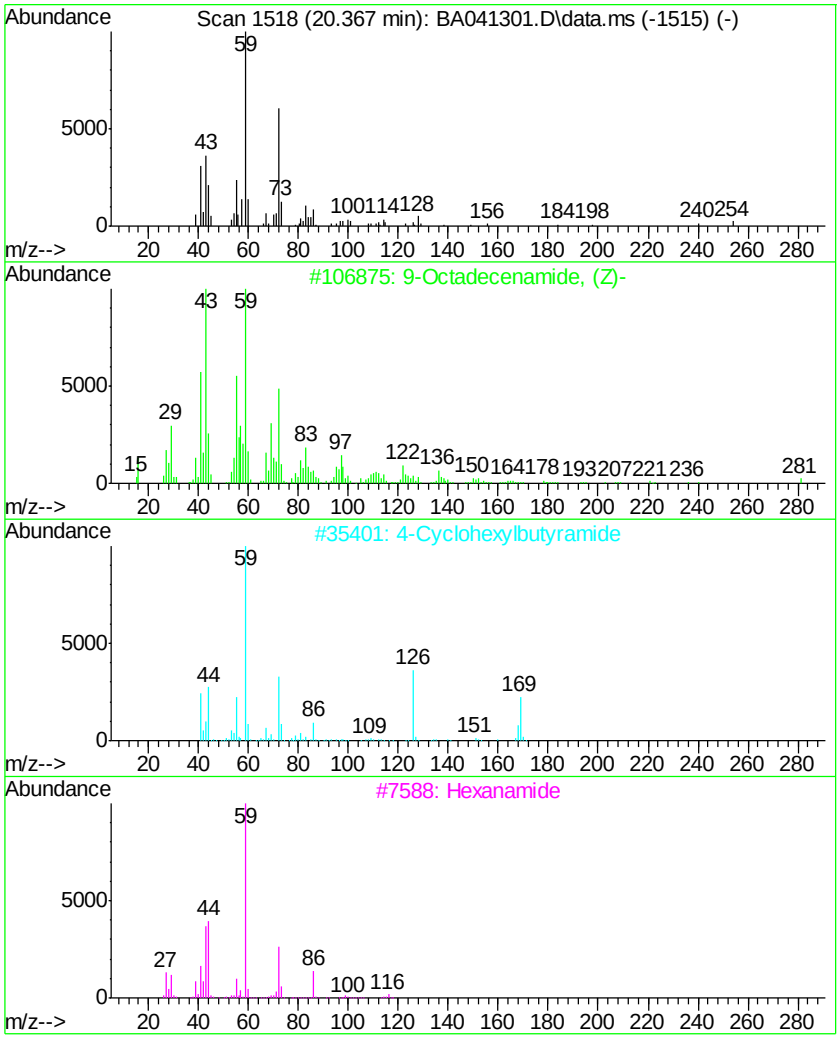
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

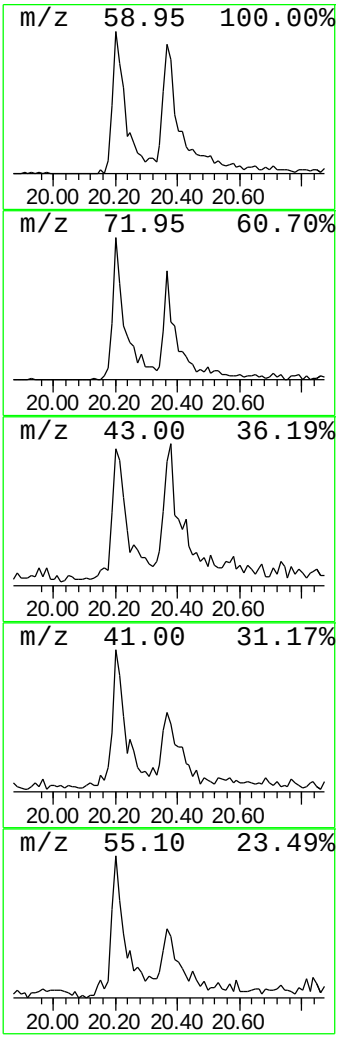
****

Peak Number 4 4-Cyclohexylbutyramide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.370	4.96 ng/ul	406319	Chrysene-d12	21.285

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
2	4-Cyclohexylbutyramide	169	C10H19NO	004441-62-7	59
3	Hexanamide	115	C6H13NO	000628-02-4	59
4	Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	56
5	Hexadecanamide	255	C16H33NO	000629-54-9	53





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

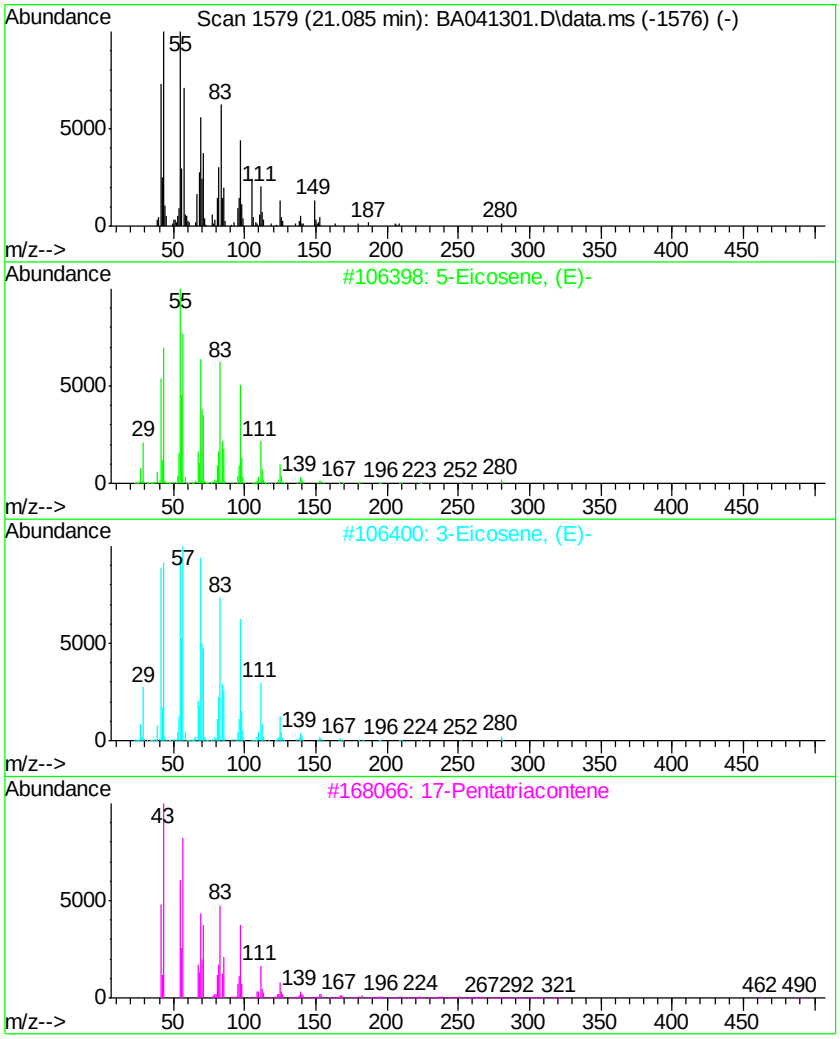
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

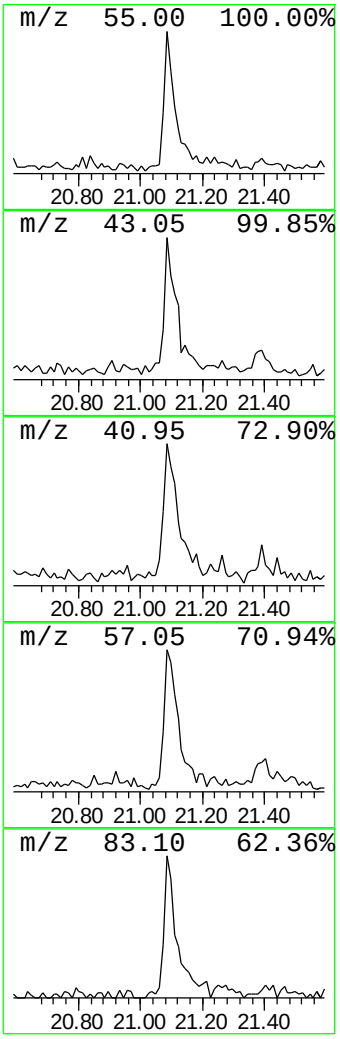
****

Peak Number 5 5-Eicosene, (E)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.090	6.39 ng/ul	523288	Chrysene-d12	21.285

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	95
2	3-Eicosene, (E)-	280	C20H40	074685-33-9	90
3	17-Pentatriacontene	491	C35H70	006971-40-0	87
4	1-Docosene	308	C22H44	001599-67-3	81
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	76





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On    : 19 Oct 2008  22:46
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

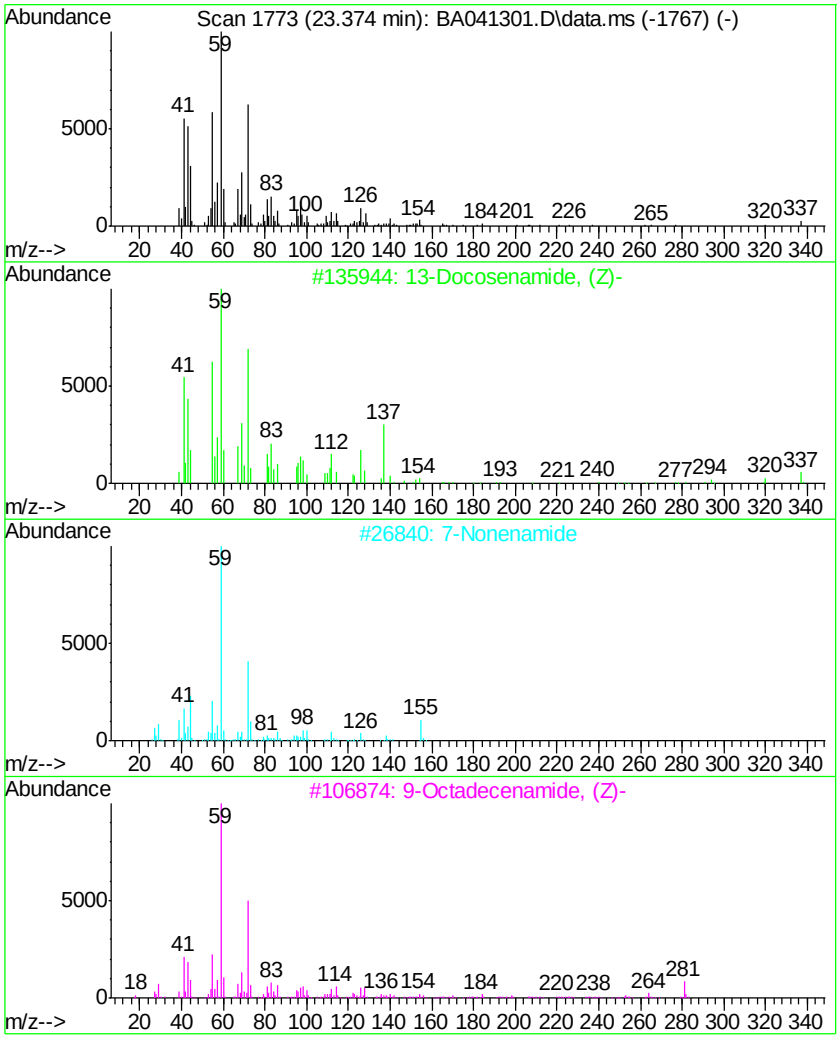
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

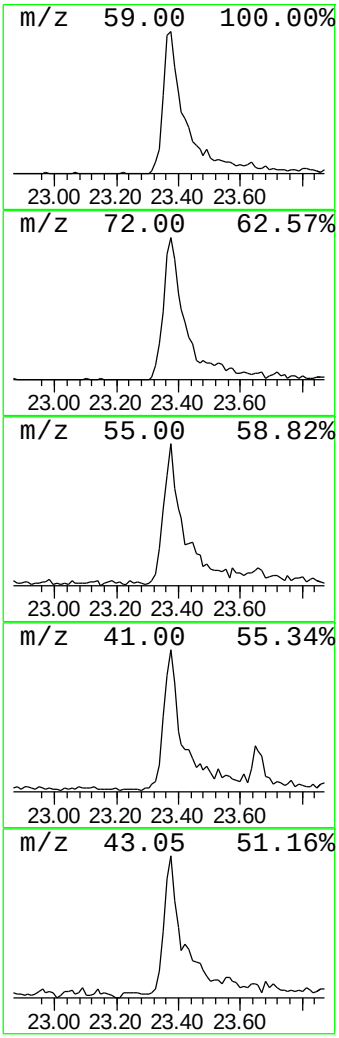
****

Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.370	25.42 ng/ul	1880380	Perylene-d12	25.076

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	90
2	7-Nonenamide	155	C9H17NO	090949-53-4	72
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
4	Tetradecanamide	227	C14H29NO	000638-58-4	64
5	Pentadecanamide, 15-bromo-	319	C15H30BrNO	1000163-86-1	50





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

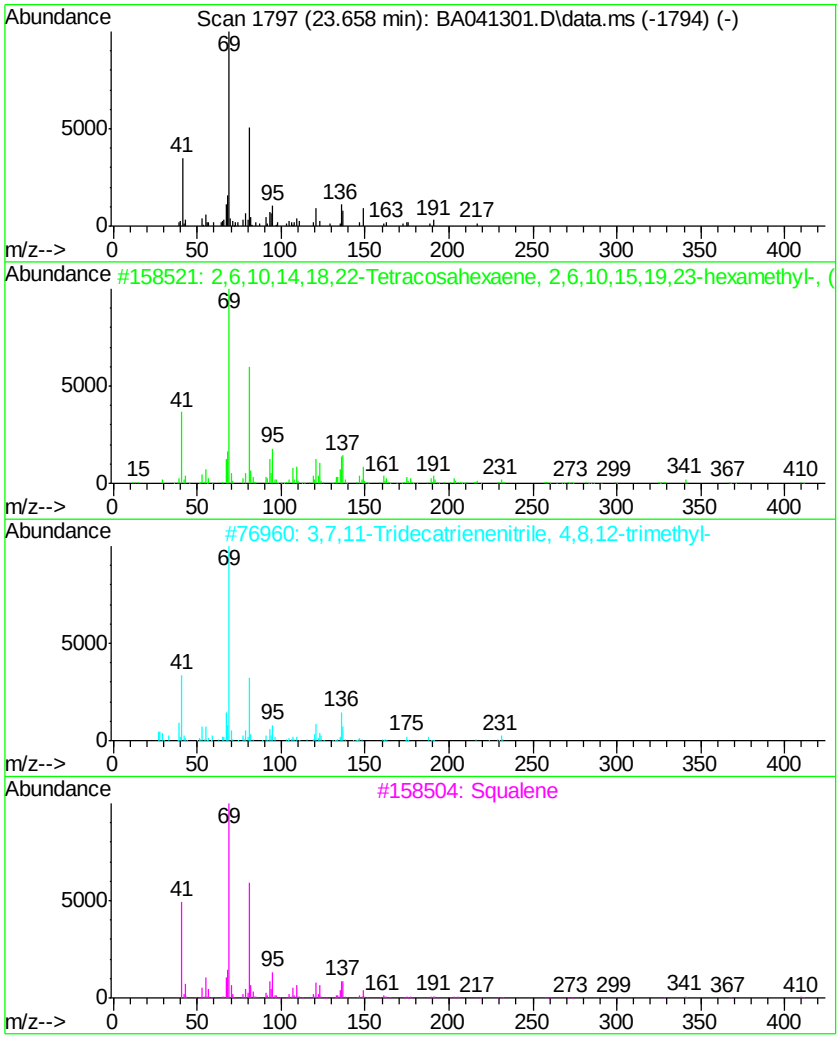
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

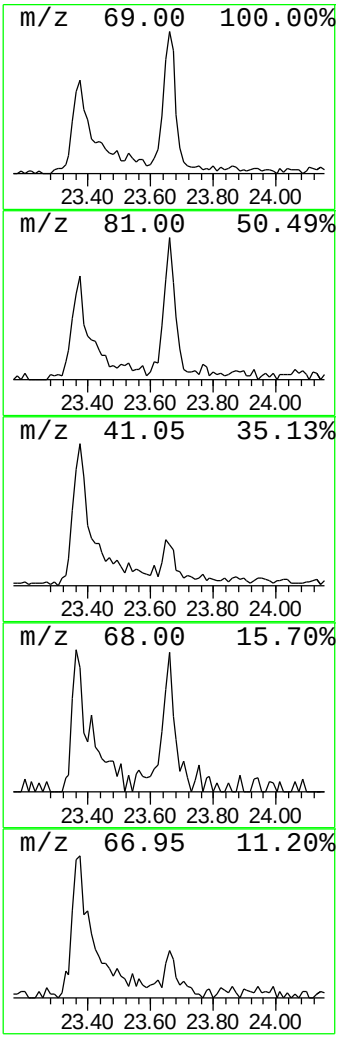
****

Peak Number 7 2,6,10,14,18,22-Tetracosahe... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.660	3.39 ng/ul	250849	Perylene-d12	25.076

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	64
2	3,7,11-Tridecatrienenitrile, 4,8...	231	C16H25N	006006-01-5	64
3	Squalene	410	C30H50	007683-64-9	64
4	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	59
5	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	59





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic ...	17.020	4.5	ng/ul	508752	4	15.748	2239130	20.0
Pentanamide, 4-...	18.820	2.4	ng/ul	194508	5	21.285	1638740	20.0
9-Octadecenamid...	20.200	7.4	ng/ul	606381	5	21.285	1638740	20.0
4-Cyclohexylbut...	20.370	5.0	ng/ul	406319	5	21.285	1638740	20.0
5-Eicosene, (E)-	21.090	6.4	ng/ul	523288	5	21.285	1638740	20.0
13-Docosenamide...	23.370	25.4	ng/ul	1880380	6	25.076	1479300	20.0
2,6,10,14,18,22...	23.660	3.4	ng/ul	250849	6	25.076	1479300	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37182B

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041324.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37182B

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041324.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	44	J
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: PB37182B

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041324.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

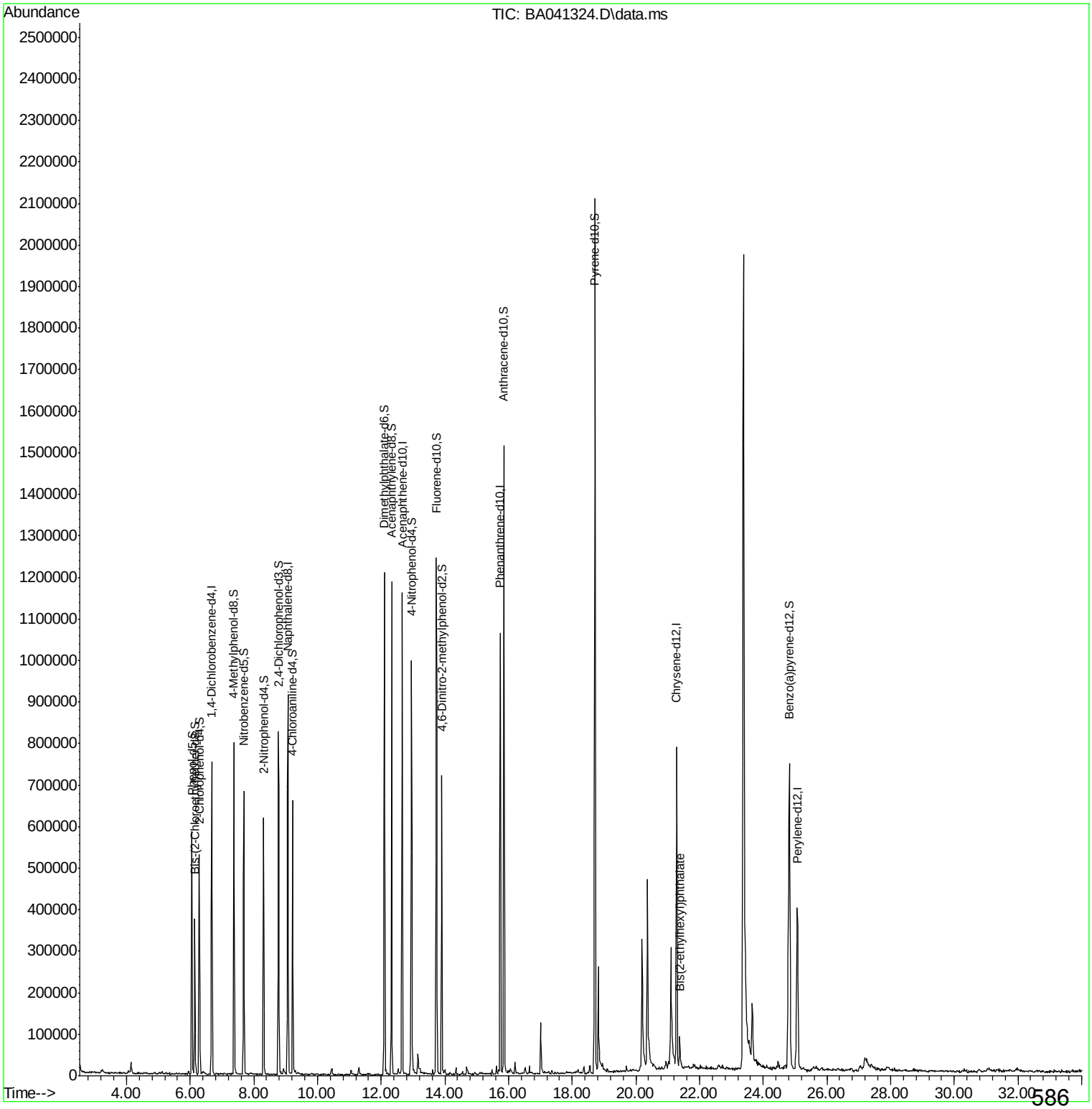
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.01	39	JN
02.	629-54-9	Hexadecanamide	18.82	120	JN
03.	301-02-0	9-Octadecenamide, (Z)-	20.19	150	JN
04.	124-26-5	Octadecanamide	20.36	220	JN
05.	74685-33-9	3-Eicosene, (E)-	21.10	220	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.38	1700	JN
07.	111-02-4	2,6,10,14,18,22-Tetracosahexaen	23.65	99	JN
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

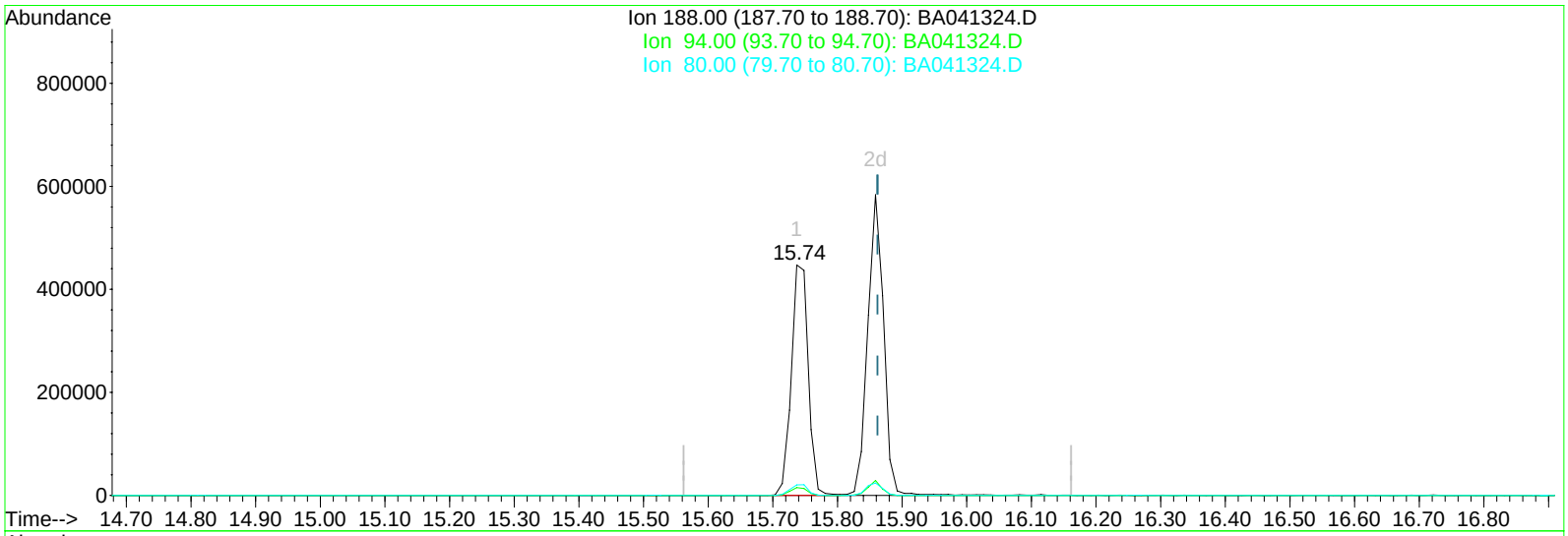
Quant Time: Oct 21 01:23:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

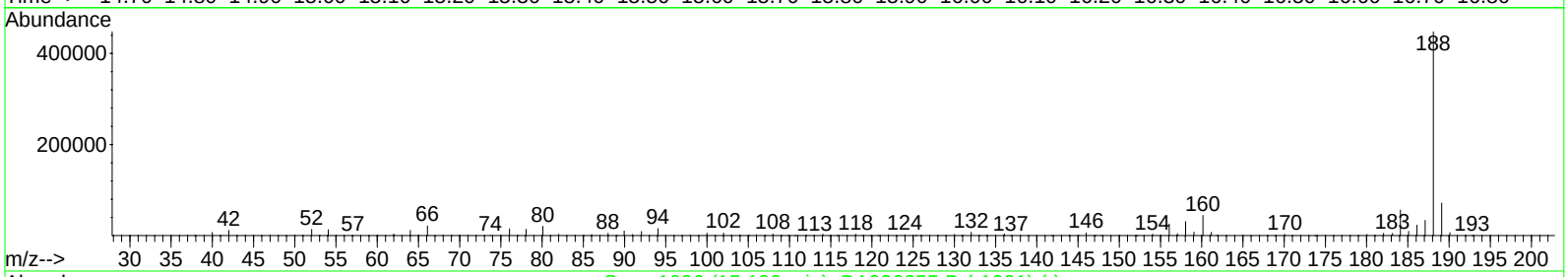


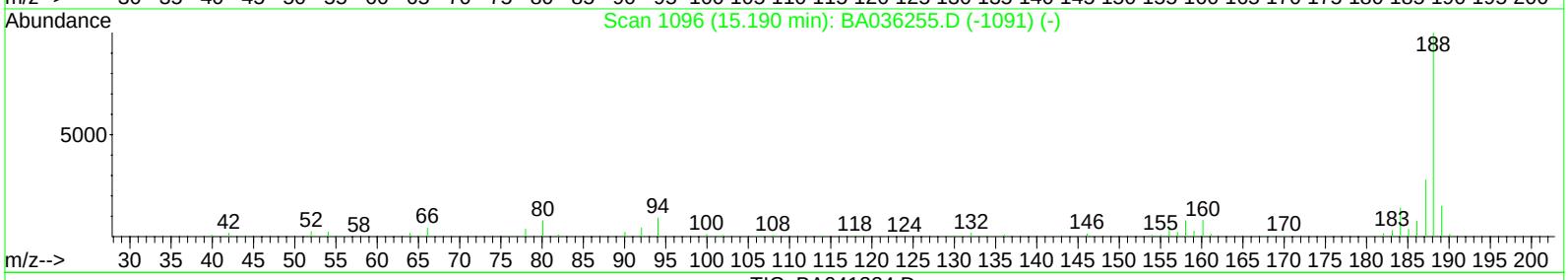
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 01:19:52 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041324.D

(68) Anthracene-d10 (S)

15.737min (-0.125) 20.89ng/ul

response 817180

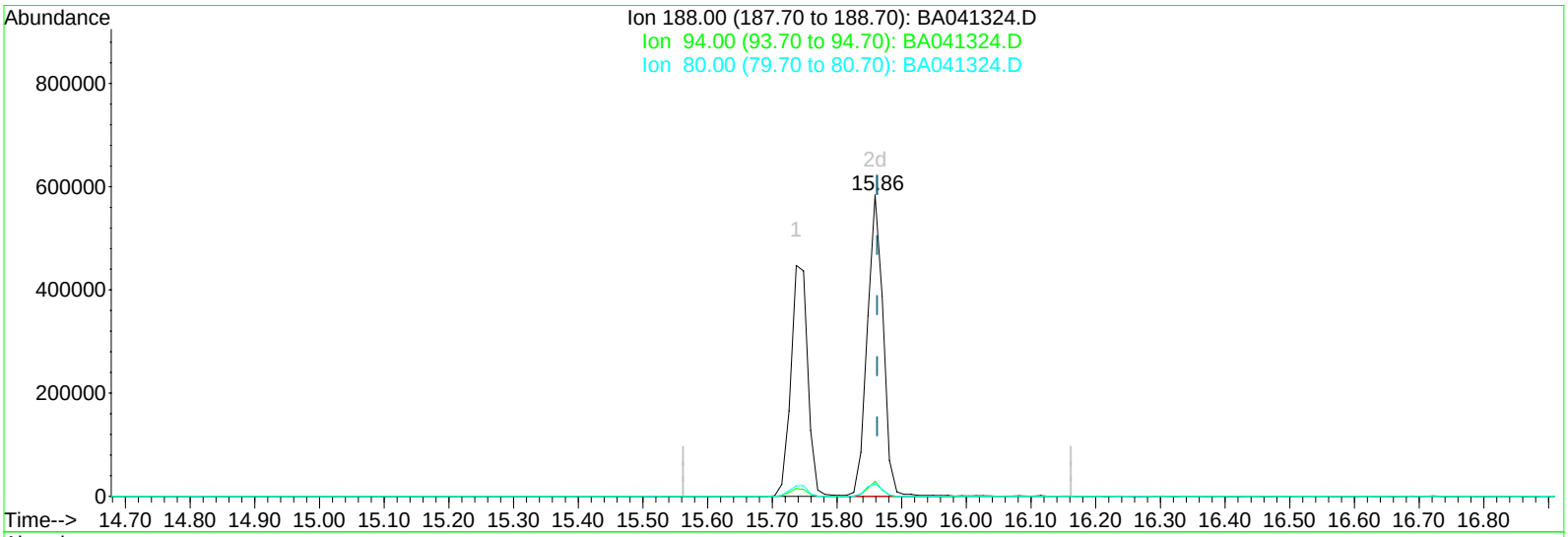
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	3.45
80.00	4.20	4.60
0.00	0.00	0.00

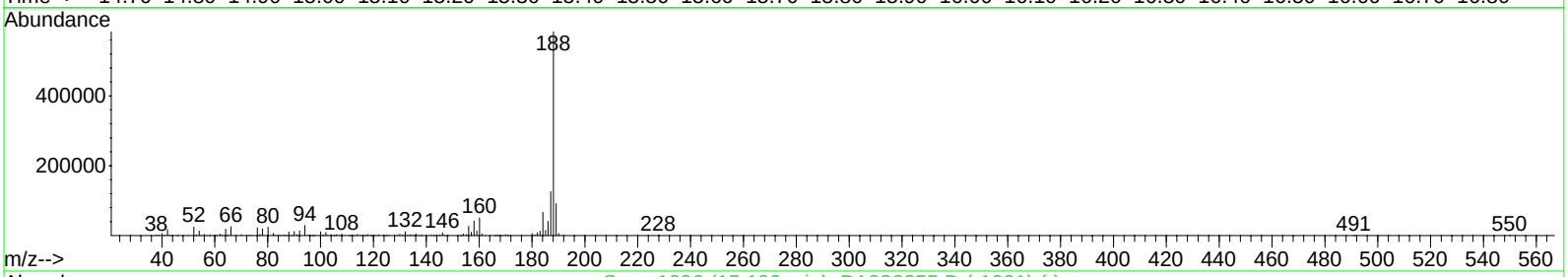
587

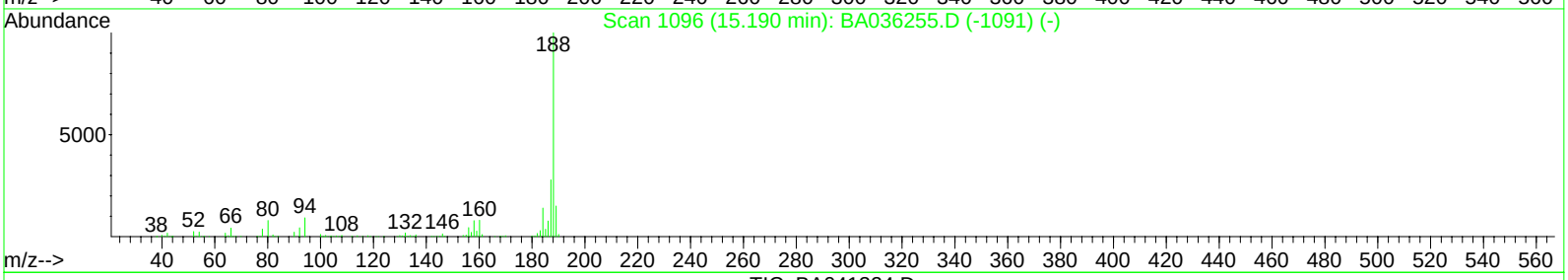
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 01:19:52 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041324.D

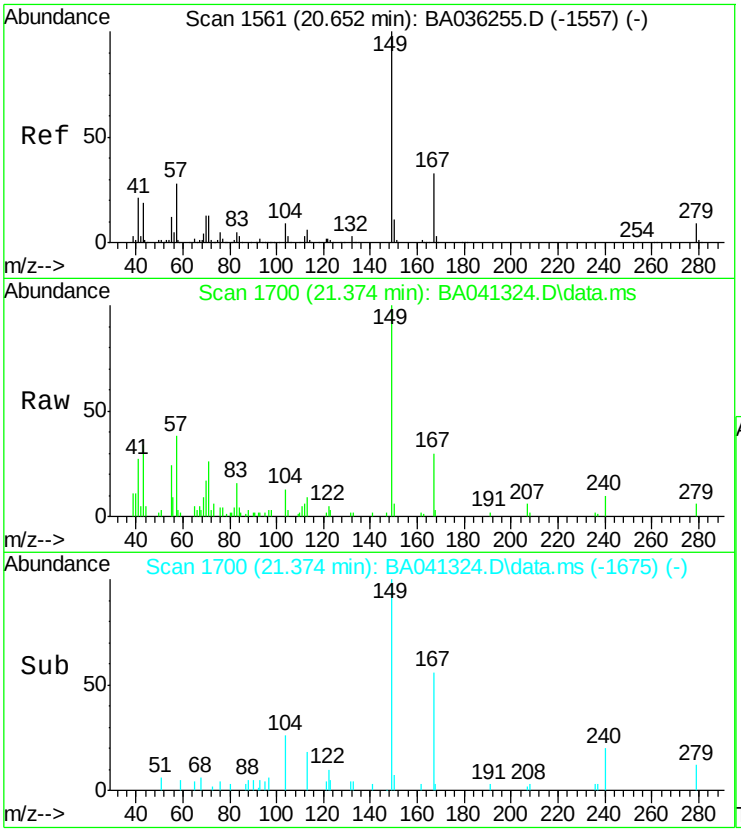
(68) Anthracene-d10 (S)

15.859min (-0.003) 25.88ng/ul m

response 1012258

Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.98#
80.00	4.20	4.11
0.00	0.00	0.00

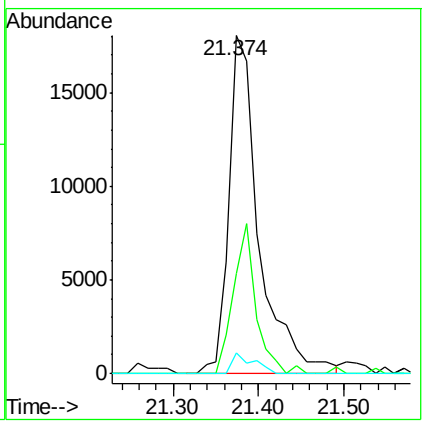
588



#79
Bis(2-ethylhexyl)phthalate
Concen: 2.67 ng/ul
RT: 21.374 min Scan# 1700
Delta R.T. -0.009 min
Lab File: BA041324.D
Acq: 20 Oct 2008 16:00

Tgt Ion:149 Resp: 43652

Ion	Ratio	Lower	Upper
149	100		
167	32.9	26.2	39.4
279	6.0	7.7	11.5#



Quantitation Report (QT/LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 01:23:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.678	152	176673	20.00	ng/ul	0.00
16) Naphthalene-d8	9.073	136	597512	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.658	164	415577	20.00	ng/ul	-0.01
59) Phenanthrene-d10	15.737	188	817180	20.00	ng/ul	-0.02
73) Chrysene-d12	21.283	240	581749	20.00	ng/ul	0.00
81) Perylene-d12	25.071	264	495068	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.056	99	242058	22.63	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.144	67	159026	21.93	ng/ul	0.00
7) 2-Chlorophenol-d4	6.289	132	199551	21.95	ng/ul	0.00
11) 4-Methylphenol-d8	7.377	113	176987	24.39	ng/ul	0.00
17) Nitrobenzene-d5	7.686	128	112011	21.18	ng/ul	0.00
20) 2-Nitrophenol-d4	8.310	143	133380	20.48	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.773	165	250457	20.78	ng/ul	-0.02
27) 4-Chloroaniline-d4	9.218	131	241959	20.30	ng/ul	0.00
41) Dimethylphthalate-d6	12.102	166	673114	24.32	ng/ul	-0.01
44) Acenaphthylene-d8	12.327	160	769977	22.88	ng/ul	-0.01
49) 4-Nitrophenol-d4	12.956	143	201363	35.70	ng/ul	0.00
55) Fluorene-d10	13.735	176	526511	23.65	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.902	200	170141	20.12	ng/ul	-0.02
68) Anthracene-d10	15.859	188	1012258m	25.88	ng/ul	0.00
74) Pyrene-d10	18.716	212	1464906	57.63	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.816	264	1069081	39.65	ng/ul	0.00
Target Compounds						Qvalue
79) Bis(2-ethylhexyl)phtha...	21.374	149	43652	2.67	ng/ul#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041324.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.853	27	30	34	rBV3	5014	11546	0.19%	0.025%
2	3.196	59	61	63	rBV3	6211	10433	0.17%	0.023%
3	4.047	136	138	143	rBV4	8142	20733	0.33%	0.045%
4	4.147	144	147	153	rVB3	28820	61281	0.99%	0.134%
5	4.392	167	169	173	rVB3	5144	9208	0.15%	0.020%
6	4.838	206	209	212	rBV3	3561	10475	0.17%	0.023%
7	5.038	225	227	230	rVB3	5069	9571	0.15%	0.021%
8	5.957	306	310	313	rBV4	8679	18264	0.29%	0.040%
9	6.045	315	318	324	rVV	583823	992221	15.99%	2.171%
10	6.144	324	327	335	rVB	375677	632566	10.19%	1.384%
11	6.278	336	339	345	rVB	529067	959857	15.47%	2.100%
12	6.678	371	375	384	rVB	753805	1224835	19.74%	2.680%
13	6.824	384	388	392	rBV2	4119	9945	0.16%	0.022%
14	7.377	435	438	442	rBV	797263	1114259	17.96%	2.438%
15	7.686	462	466	469	rBV	682558	974350	15.70%	2.132%
16	7.921	481	487	488	rVB3	3476	9970	0.16%	0.022%
17	8.310	518	522	525	rBV	617243	933334	15.04%	2.042%
18	8.619	545	550	553	rBV2	3858	12412	0.20%	0.027%
19	8.773	561	564	568	rBV	827252	1292789	20.83%	2.829%
20	8.928	576	578	582	rBV4	13532	30739	0.50%	0.067%
21	9.073	587	591	594	rBV	911437	1383551	22.30%	3.028%
22	9.218	601	604	610	rBV	658237	959585	15.46%	2.100%
23	10.451	709	715	718	rBV5	15217	50429	0.81%	0.110%
24	10.650	729	733	737	rBV	3434	9017	0.15%	0.020%
25	11.051	767	769	774	rVB	9720	18090	0.29%	0.040%
26	11.305	787	792	794	rBV2	17673	35841	0.58%	0.078%
27	12.102	860	864	867	rBV	1207032	1674079	26.98%	3.663%
28	12.147	867	868	871	rVB2	13671	15419	0.25%	0.034%
29	12.327	880	884	887	rBV	1186913	1773743	28.58%	3.881%
30	12.536	899	903	905	rBV4	13298	25458	0.41%	0.056%
31	12.658	910	914	917	rBV	1157908	1732014	27.91%	3.790%
32	12.956	937	941	944	rBV	996702	1609456	25.94%	3.522%
33	13.156	956	959	961	rBV	49304	84379	1.36%	0.185%
34	13.622	998	1001	1003	rBV3	11827	18924	0.30%	0.041%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.735	1005	1011	1015	rVV	1243615	2012645	32.43%	4.404%
36	13.902	1023	1026	1030	rVV	720438	1081405	17.43%	2.366%
37	14.003	1032	1035	1039	rVB4	12013	24351	0.39%	0.053%
38	14.169	1046	1050	1052	rBV3	5748	13215	0.21%	0.029%
39	14.347	1061	1066	1069	rBV2	18816	34626	0.56%	0.076%
40	14.557	1083	1085	1088	rVB4	7779	11900	0.19%	0.026%
41	14.689	1093	1097	1099	rBV	19290	38585	0.62%	0.084%
42	14.942	1115	1120	1124	rBV3	6070	15158	0.24%	0.033%
43	15.097	1128	1134	1135	rBV	5701	11882	0.19%	0.026%
44	15.482	1167	1169	1171	rBV2	11885	18064	0.29%	0.040%
45	15.625	1178	1182	1185	rBV3	20758	33980	0.55%	0.074%
46	15.681	1185	1187	1189	rVV2	10374	19579	0.32%	0.043%
47	15.737	1189	1192	1196	rVV	1062371	1901652	30.65%	4.161%
48	15.859	1199	1203	1207	rVV	1511456	2583006	41.63%	5.652%
49	15.914	1207	1208	1210	rVV	8646	12053	0.19%	0.026%
50	16.015	1214	1217	1218	rVV2	6934	13162	0.21%	0.029%
51	16.059	1218	1221	1226	rVB	12000	27164	0.44%	0.059%
52	16.203	1231	1234	1237	rBV	28181	46073	0.74%	0.101%
53	16.513	1260	1262	1266	rVV2	16446	34430	0.55%	0.075%
54	16.655	1273	1275	1277	rVV2	20251	30180	0.49%	0.066%
55	16.733	1279	1282	1286	rVB4	5582	12601	0.20%	0.028%
56	17.008	1303	1307	1315	rBV2	123338	225576	3.64%	0.494%
57	17.366	1336	1339	1345	rVB4	8891	17649	0.28%	0.039%
58	17.807	1374	1379	1380	rBV3	3975	11218	0.18%	0.025%
59	18.186	1410	1413	1416	rVB4	9343	19015	0.31%	0.042%
60	18.373	1425	1430	1433	rVB4	17681	46748	0.75%	0.102%
61	18.494	1438	1441	1443	rBV4	4852	10634	0.17%	0.023%
62	18.550	1443	1446	1450	rVB2	18880	35960	0.58%	0.079%
63	18.716	1456	1461	1465	rBV	2106969	3710156	59.79%	8.119%
64	18.815	1467	1470	1481	rVV	252054	532857	8.59%	1.166%
65	18.958	1481	1483	1485	rVB2	16352	23373	0.38%	0.051%
66	19.102	1494	1496	1497	rBV2	7587	9302	0.15%	0.020%
67	19.311	1514	1515	1518	rBV2	6608	9811	0.16%	0.021%
68	19.698	1548	1550	1552	rBV	13821	21536	0.35%	0.047%
69	19.907	1566	1569	1571	rBV4	4309	9951	0.16%	0.022%
70	20.194	1591	1595	1605	rBV	305484	679177	10.95%	1.486%
71	20.363	1607	1610	1625	rVB	451072	969653	15.63%	2.122%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

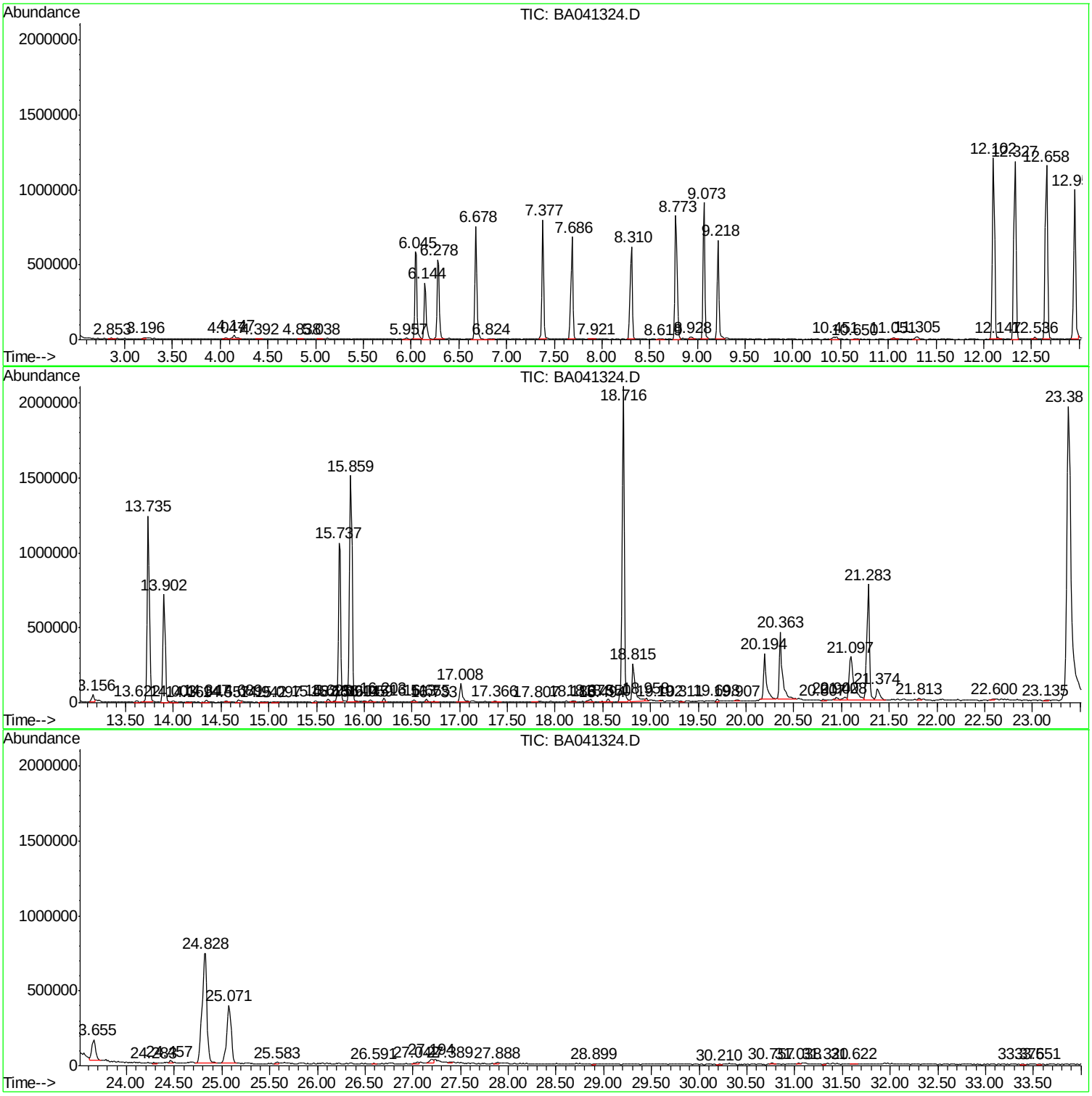
72	20.807	1648	1650	1654	rBV5	7162	17453	0.28%	0.038%
73	20.940	1660	1662	1666	rVB5	16272	39639	0.64%	0.087%
74	21.028	1666	1670	1673	rBV2	17563	50721	0.82%	0.111%
75	21.097	1673	1676	1688	rVV3	290266	995827	16.05%	2.179%
76	21.283	1688	1692	1697	rVV	770932	1493311	24.06%	3.268%
77	21.374	1697	1700	1707	rVB2	75698	177920	2.87%	0.389%
78	21.813	1736	1738	1740	rBV3	8843	14698	0.24%	0.032%
79	22.600	1802	1806	1807	rBV4	8206	20646	0.33%	0.045%
80	23.135	1850	1852	1855	rBV4	5313	9655	0.16%	0.021%
81	23.380	1866	1873	1887	rBV	1958457	6205327	100.00%	13.579%
82	23.655	1893	1897	1903	rVB	137410	371302	5.98%	0.813%
83	24.283	1950	1951	1954	rBV2	7555	15258	0.25%	0.033%
84	24.457	1964	1966	1969	rVB4	16334	34304	0.55%	0.075%
85	24.828	1989	1998	2008	rVB	734386	2696447	43.45%	5.901%
86	25.071	2012	2019	2026	rBV	386486	1251196	20.16%	2.738%
87	25.583	2060	2063	2064	rBV2	8538	16123	0.26%	0.035%
88	26.591	2148	2150	2152	rBV3	5761	10243	0.17%	0.022%
89	27.042	2184	2189	2191	rBV4	12999	40474	0.65%	0.089%
90	27.194	2198	2202	2204	rBV5	25814	73453	1.18%	0.161%
91	27.389	2217	2219	2221	rBV3	7166	11001	0.18%	0.024%
92	27.888	2258	2262	2263	rBV3	10143	22162	0.36%	0.048%
93	28.899	2347	2349	2350	rBV2	6491	10405	0.17%	0.023%
94	30.210	2459	2462	2464	rBV3	5111	11685	0.19%	0.026%
95	30.757	2507	2509	2513	rVB4	5094	12393	0.20%	0.027%
96	31.038	2531	2533	2535	rBV3	5646	11204	0.18%	0.025%
97	31.320	2555	2558	2559	rBV3	5530	12360	0.20%	0.027%
98	31.622	2581	2585	2588	rBV3	4295	14403	0.23%	0.032%
99	33.376	2735	2736	2740	rVV3	6632	10917	0.18%	0.024%
100	33.551	2750	2751	2754	rBV3	5961	10491	0.17%	0.023%

Sum of corrected areas: 45698118

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

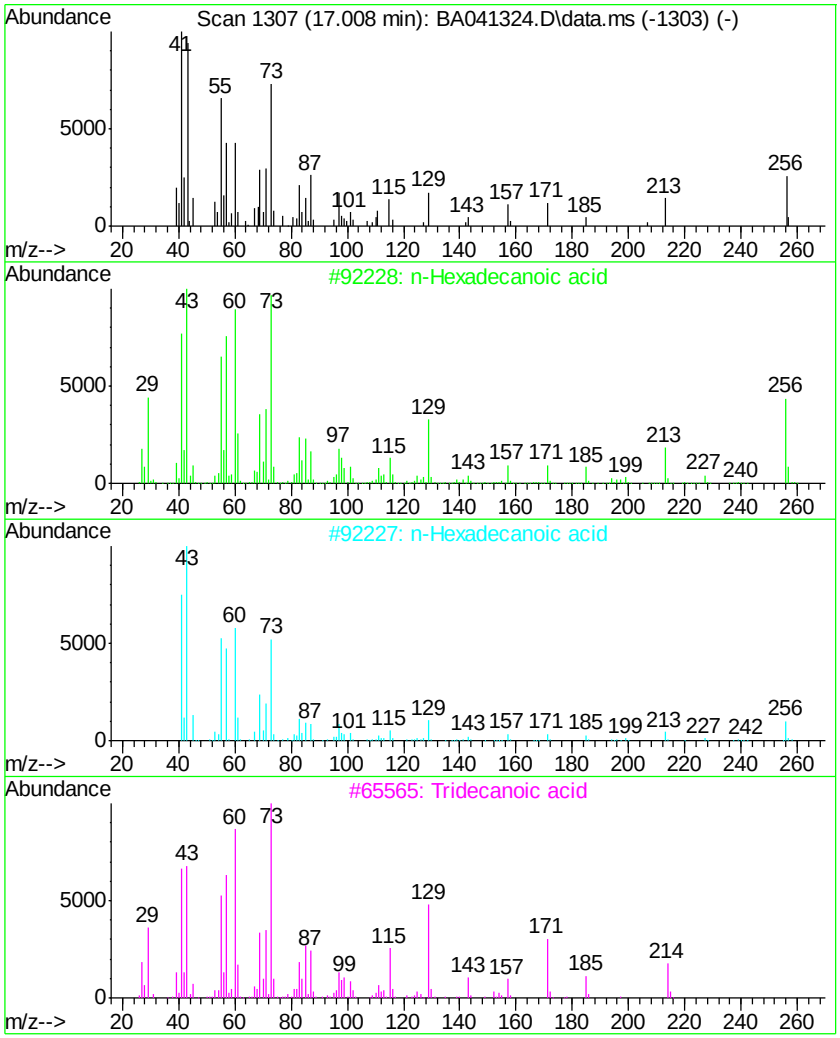
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

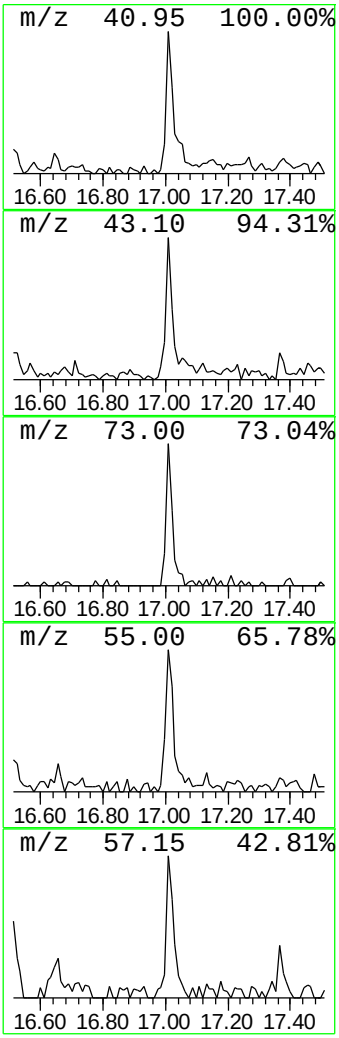
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.010	2.37 ng/ul	225576	Phenanthrene-d10	15.737

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	62
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	46
3	Tridecanoic acid	214	C13H26O2	000638-53-9	43
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	38
5	Dodecanoic acid	200	C12H24O2	000143-07-7	38





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

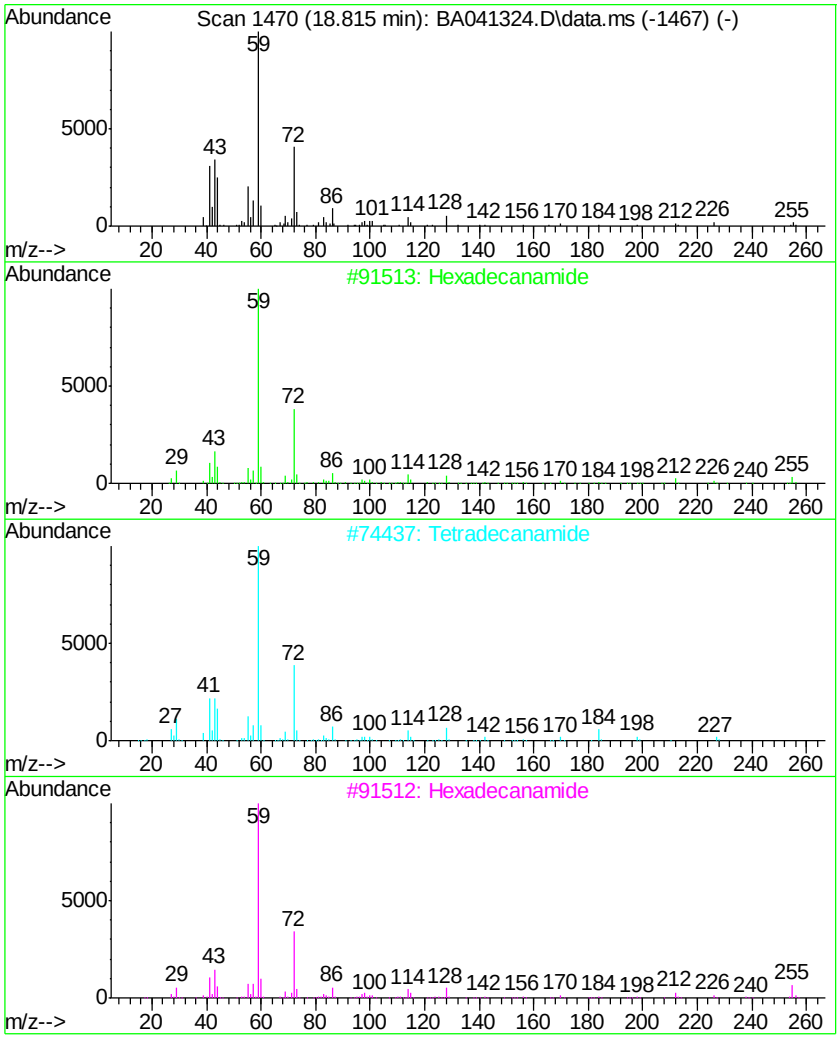
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

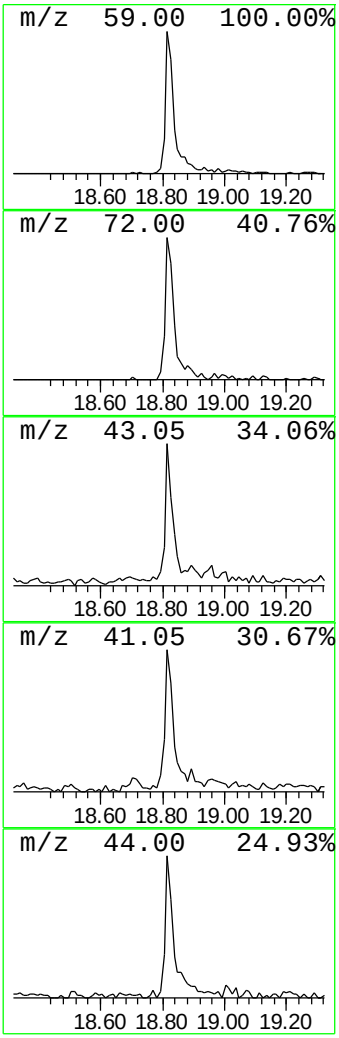
****

Peak Number 2 Hexadecanamide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.820	7.14 ng/ul	532857	Chrysene-d12	21.283

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	91
2	Tetradecanamide	227	C14H29NO	000638-58-4	90
3	Hexadecanamide	255	C16H33NO	000629-54-9	83
4	Dodecanamide	199	C12H25NO	001120-16-7	78
5	Decanamide-	171	C10H21NO	002319-29-1	78





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

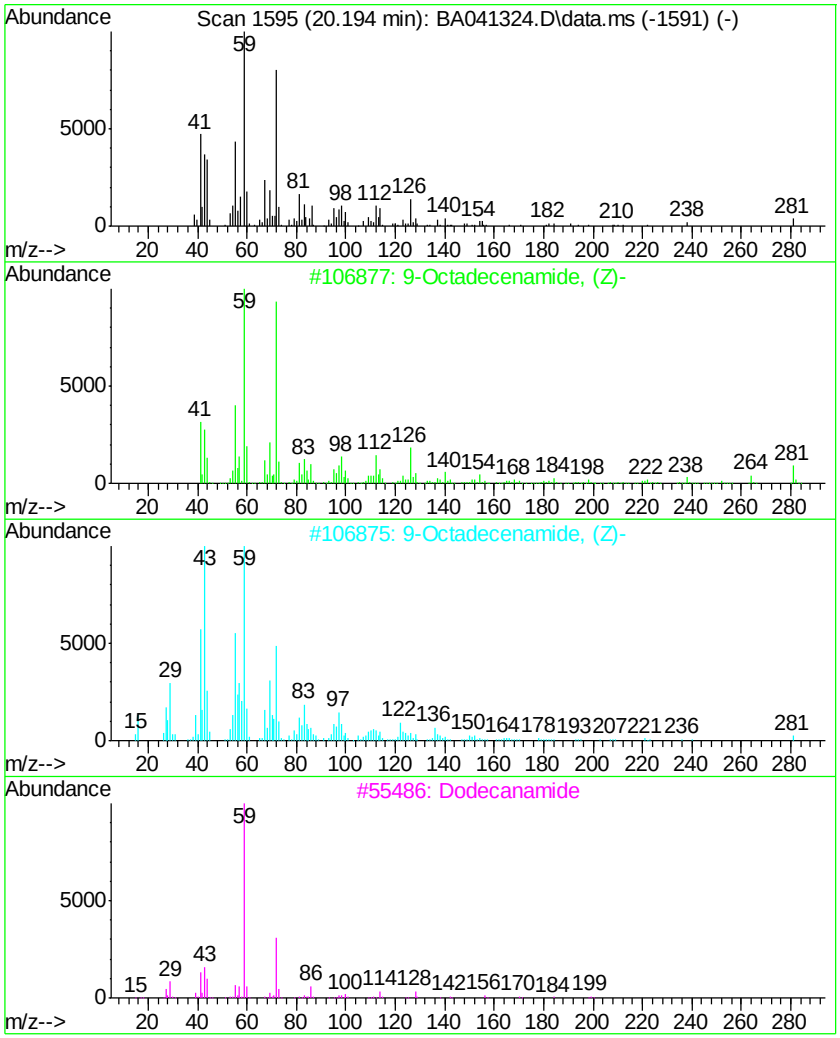
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

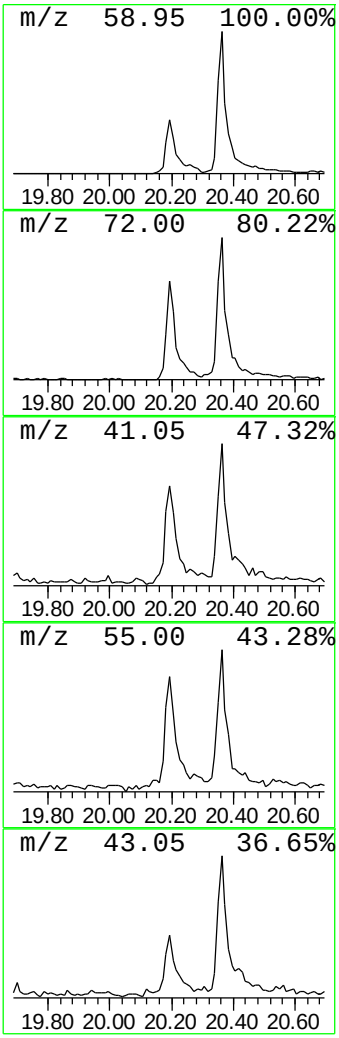
****

Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.190	9.10 ng/ul	679177	Chrysene-d12	21.283

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	94
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
3	Dodecanamide	199	C12H25NO	001120-16-7	50
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	47
5	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	43





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

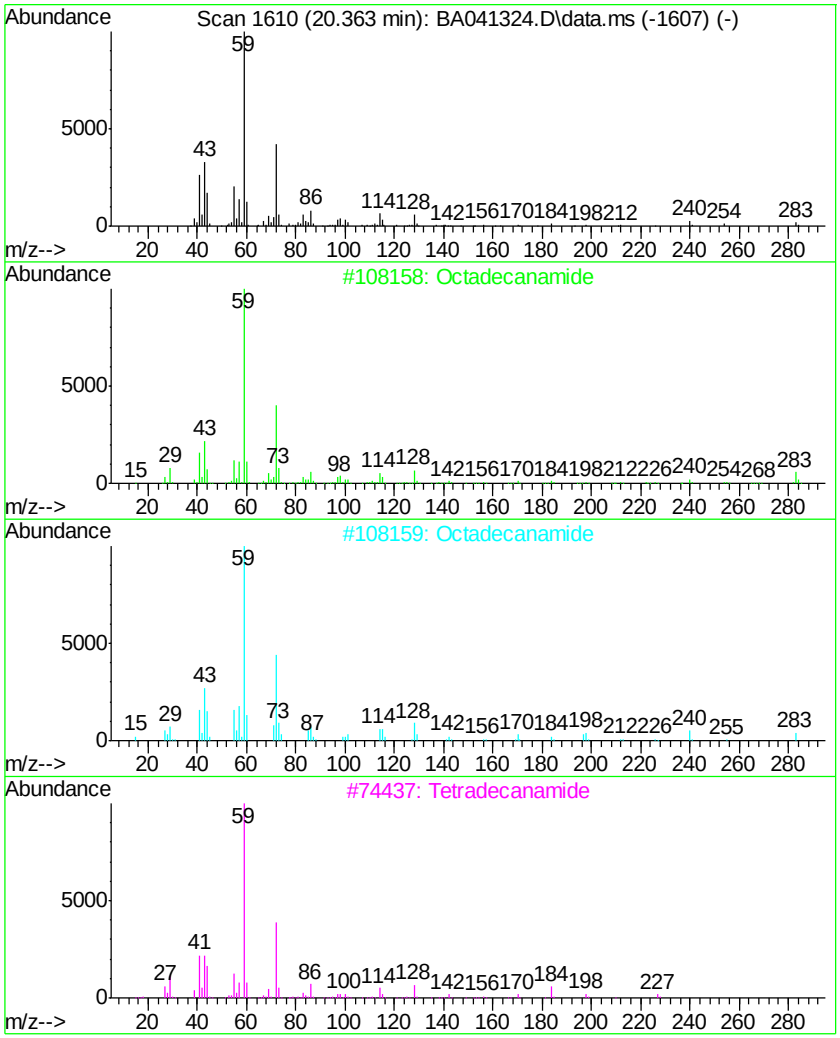
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 4 Octadecanamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.360	12.99 ng/ul	969653	Chrysene-d12	21.283

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanamide	283	C18H37NO	000124-26-5	95
2	Octadecanamide	283	C18H37NO	000124-26-5	91
3	Tetradecanamide	227	C14H29NO	000638-58-4	90
4	Hexadecanamide	255	C16H33NO	000629-54-9	90
5	Hexadecanamide	255	C16H33NO	000629-54-9	86



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

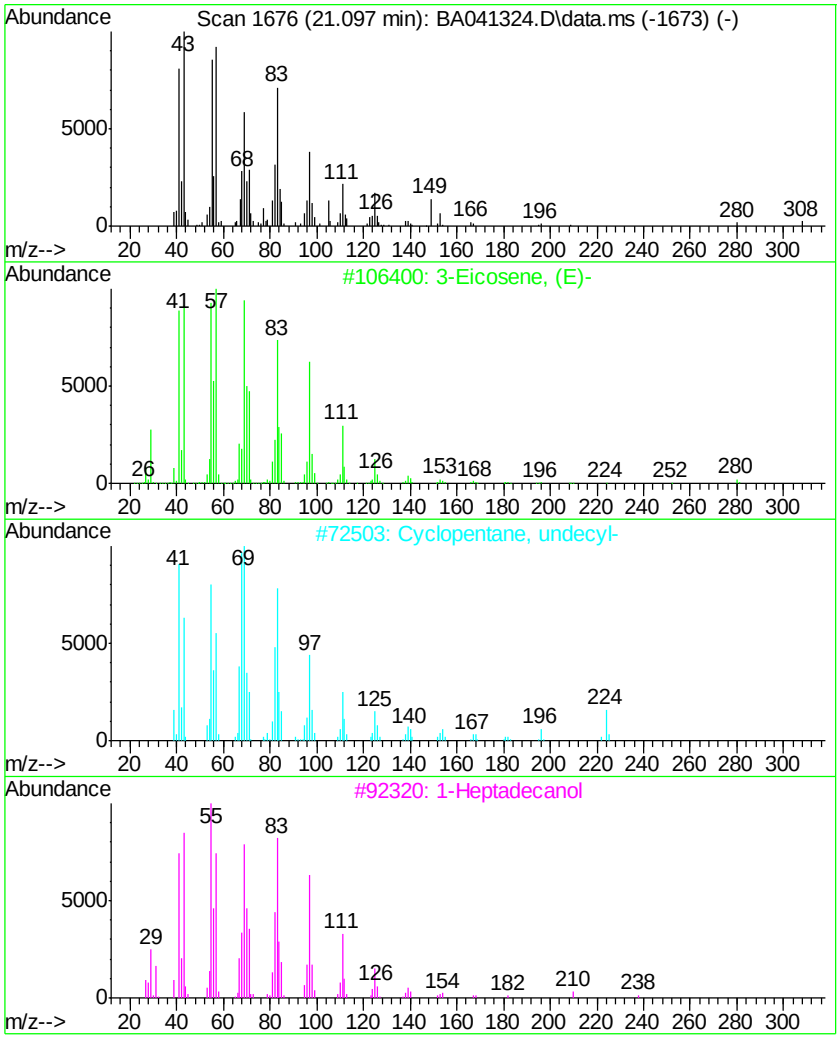
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

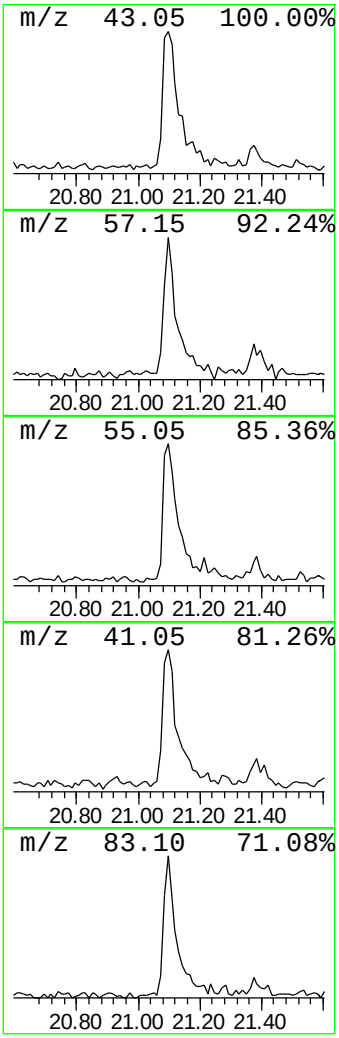
****

Peak Number 5 3-Eicosene, (E)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.100	13.34 ng/ul	995827	Chrysene-d12	21.283

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	92
2	Cyclopentane, undecyl-	224	C16H32	006785-23-5	90
3	1-Heptadecanol	256	C17H36O	001454-85-9	87
4	1-Eicosanol	298	C20H42O	000629-96-9	87
5	2- Bromopropionic acid, pentadec...	362	C18H35BrO2	1000292-44-2	83





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On    : 20 Oct 2008  16:00
Operator  : HNP
Sample    : PB37182B
Misc      :
ALS Vial  : 3   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

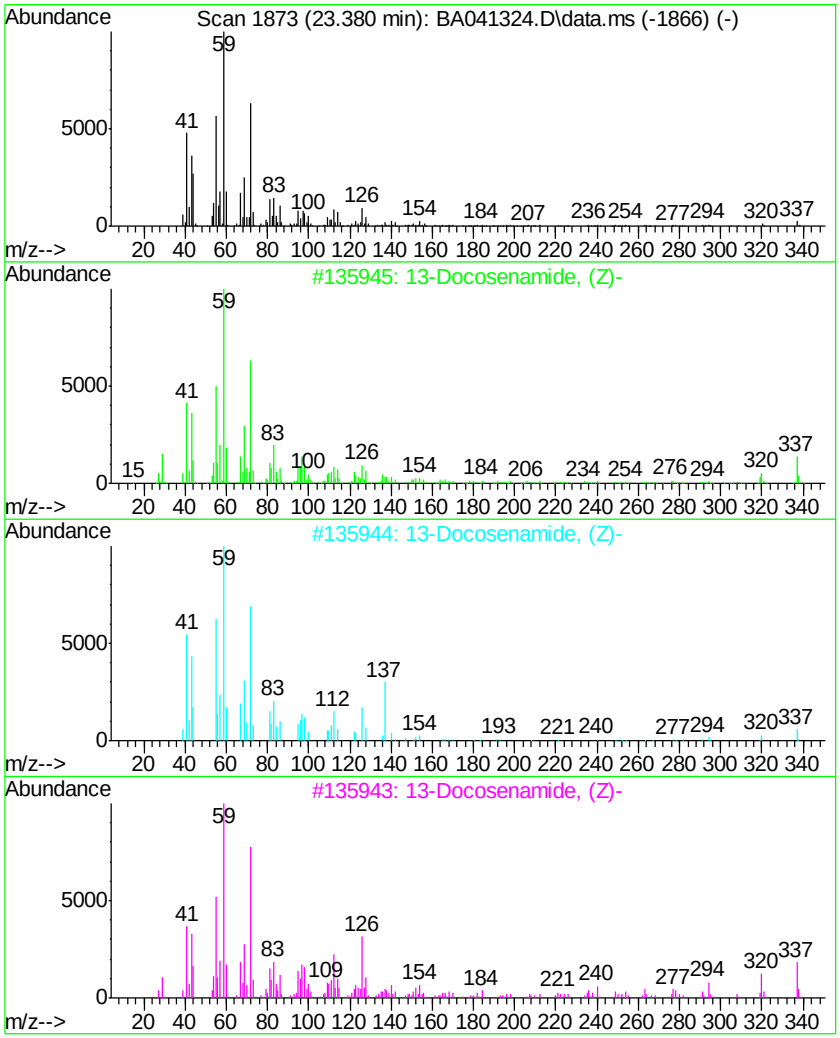
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

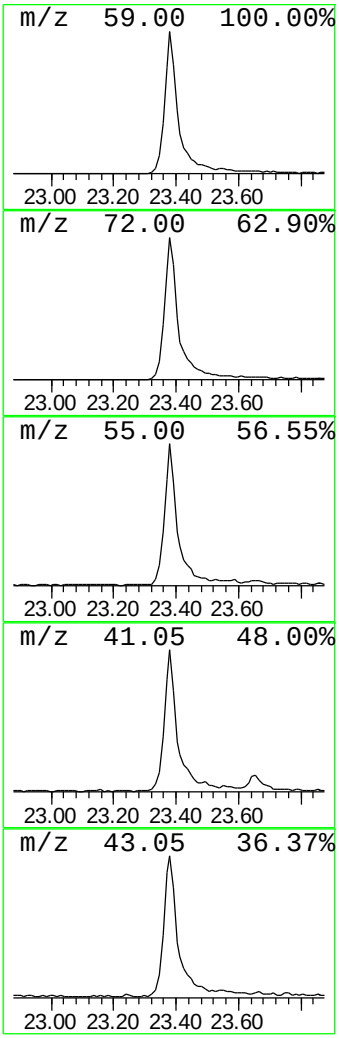
****

Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.380	99.19 ng/ul	6205330	Perylene-d12	25.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	90
2	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	87
3	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	83
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
5	Hexadecanamide	255	C16H33NO	000629-54-9	59





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

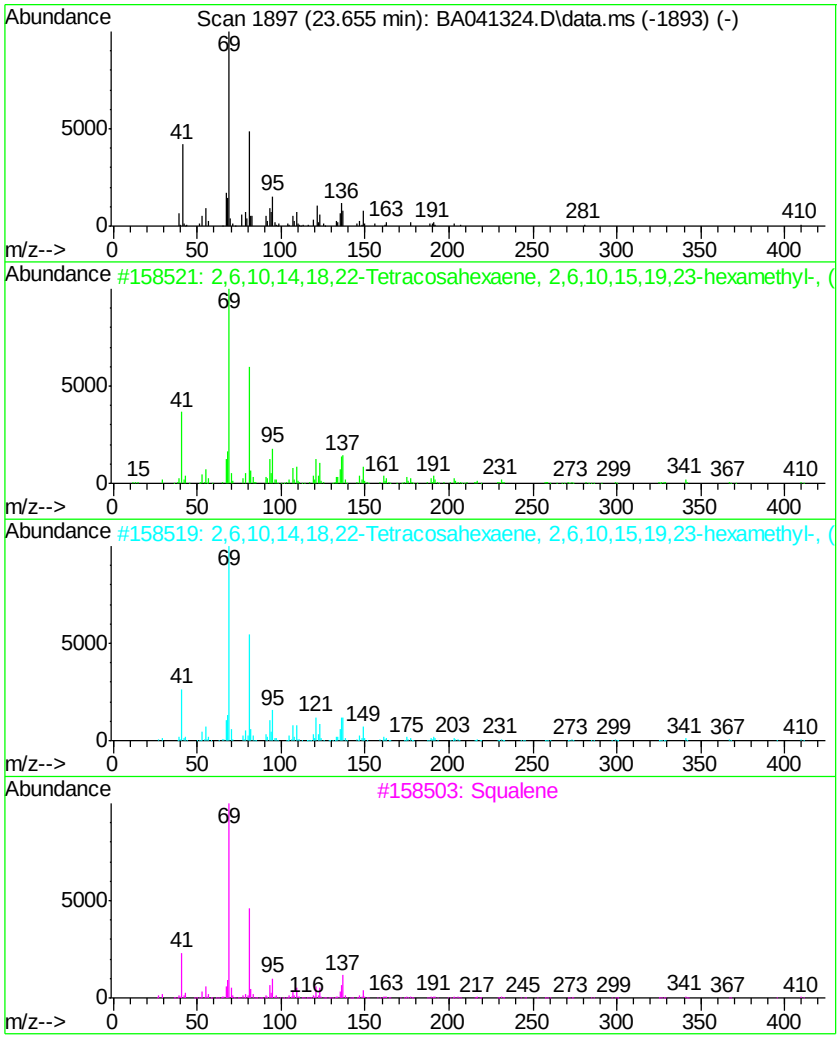
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

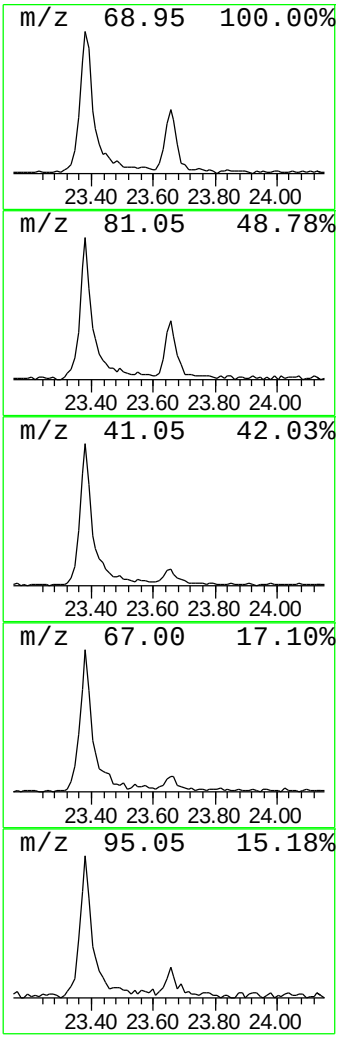
****

Peak Number 7 2,6,10,14,18,22-Tetracosahe... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.650	5.94 ng/ul	371302	Perylene-d12	25.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	97
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	97
3	Squalene	410	C30H50	007683-64-9	94
4	Squalene	410	C30H50	007683-64-9	93
5	Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	90





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041324.D
Acq On : 20 Oct 2008 16:00
Operator : HNP
Sample : PB37182B
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic ...	17.010	2.4	ng/ul	225576	4	15.737	1901650	20.0
Hexadecanamide	18.820	7.1	ng/ul	532857	5	21.283	1493310	20.0
9-Octadecenamid...	20.190	9.1	ng/ul	679177	5	21.283	1493310	20.0
Octadecanamide	20.360	13.0	ng/ul	969653	5	21.283	1493310	20.0
3-Eicosene, (E)-	21.100	13.3	ng/ul	995827	5	21.283	1493310	20.0
13-Docosenamide...	23.380	99.2	ng/ul	6205330	6	25.072	1251200	20.0
2,6,10,14,18,22...	23.650	5.9	ng/ul	371302	6	25.072	1251200	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37183BRE

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041325.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37183BRE

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041325.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	51	J
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK03RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: PB37183BRE

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041325.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

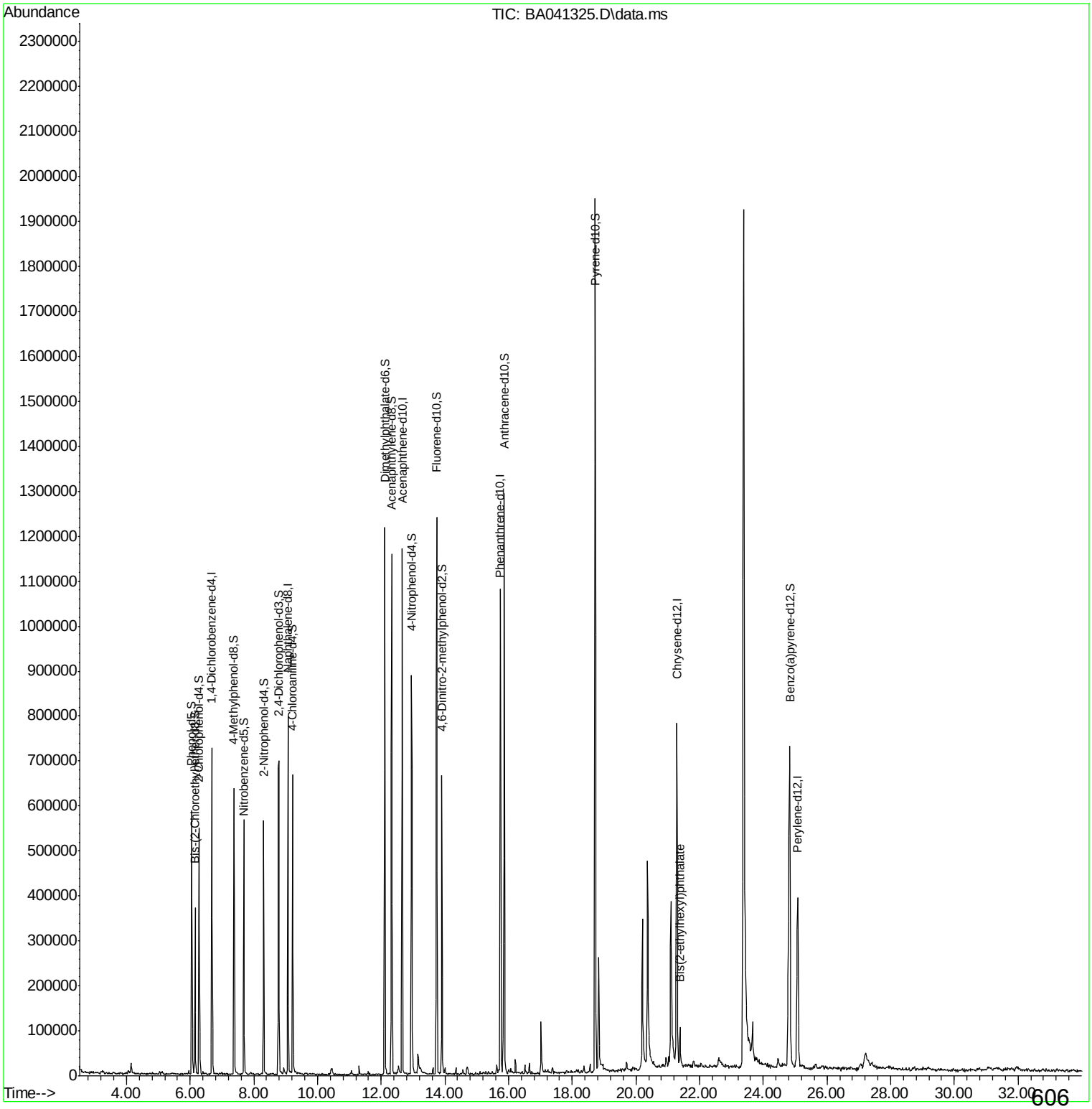
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.01	43	JN
02.	629-54-9	Hexadecanamide	18.83	100	JN
03.	301-02-0	9-Octadecenamide, (Z)-	20.20	150	JN
04.	1120-16-7	Dodecanamide	20.36	220	JN
05.	3452-07-1	1-Eicosene	21.10	240	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.38	1600	JN
07.	336879-76-6	1,3-Dioxolan-2-one, 3-methyl-3-	23.66	63	JN
08.		unknown27.22	27.22	45	J
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

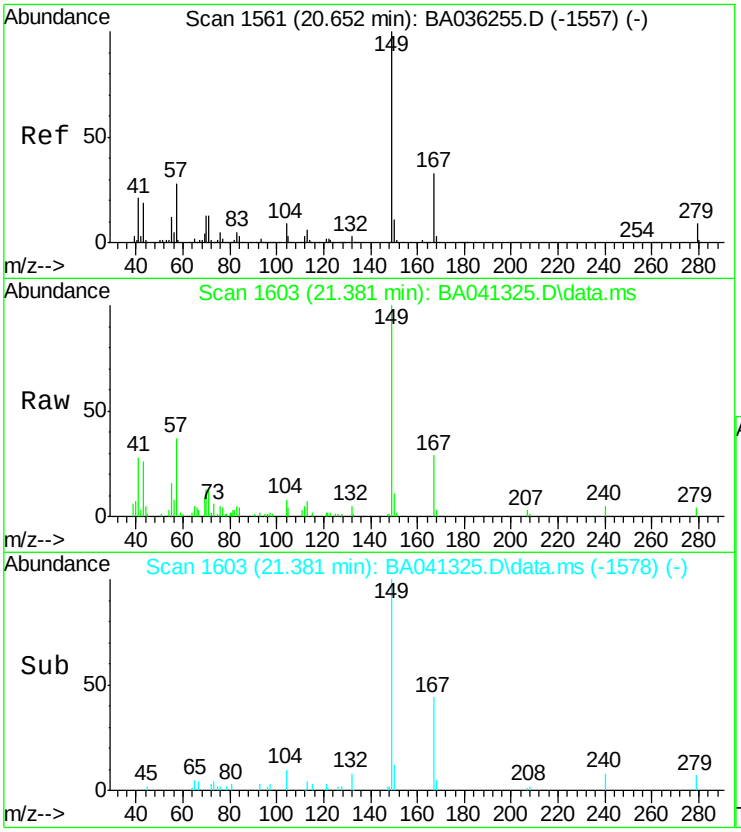
[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 01:27:00 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

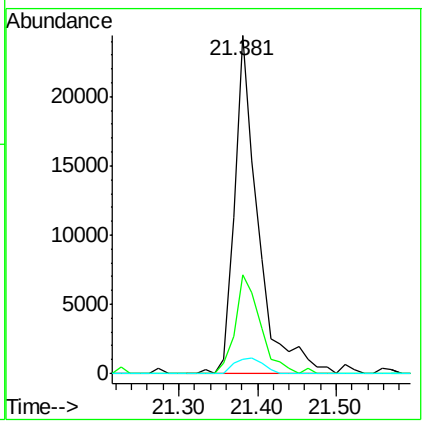




#79
Bis(2-ethylhexyl)phthalate
Concen: 3.07 ng/ul
RT: 21.381 min Scan# 1603
Delta R.T. -0.002 min
Lab File: BA041325.D
Acq: 20 Oct 2008 16:42

Tgt Ion:149 Resp: 50325

Ion	Ratio	Lower	Upper
149	100		
167	29.1	26.2	39.4
279	4.2	7.7	11.5#



Quantitation Report (LSC Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 01:27:00 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.680	152	177740	20.00	ng/ul	0.00
16) Naphthalene-d8	9.078	136	599589	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.662	164	426701	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.742	188	766527	20.00	ng/ul	-0.01
73) Chrysene-d12	21.286	240	582119	20.00	ng/ul	0.00
81) Perylene-d12	25.077	264	496271	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.047	99	207341	19.27	ng/ul	-0.01
5) Bis-(2-Chloroethyl)eth...	6.152	67	144603	19.82	ng/ul	0.00
7) 2-Chlorophenol-d4	6.282	132	182245	19.93	ng/ul	-0.01
11) 4-Methylphenol-d8	7.375	113	165326	22.64	ng/ul	-0.01
17) Nitrobenzene-d5	7.692	128	105797	19.93	ng/ul	0.00
20) 2-Nitrophenol-d4	8.303	143	125105	19.15	ng/ul	-0.01
24) 2,4-Dichlorophenol-d3	8.785	165	229314	18.96	ng/ul	0.00
27) 4-Chloroaniline-d4	9.219	131	234344	19.60	ng/ul	0.00
41) Dimethylphthalate-d6	12.109	166	682343	24.01	ng/ul	0.00
44) Acenaphthylene-d8	12.333	160	774478	22.42	ng/ul	0.00
49) 4-Nitrophenol-d4	12.956	143	193621	33.43	ng/ul	0.00
55) Fluorene-d10	13.743	176	510424	22.33	ng/ul	0.00
60) 4,6-Dinitro-2-methylph...	13.908	200	155061	19.55	ng/ul	-0.01
68) Anthracene-d10	15.860	188	927316	25.27	ng/ul	0.00
74) Pyrene-d10	18.722	212	1387202	54.54	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.829	264	978444	36.20	ng/ul	0.01
Target Compounds						Qvalue
79) Bis(2-ethylhexyl)phtha...	21.381	149	50325	3.07	ng/ul#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BA041325.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.203	54	58	61	rBV4	5577	17109	0.28%	0.038%
2	4.142	136	138	142	rVB	22273	37380	0.61%	0.084%
3	5.037	212	214	217	rVB2	7675	16667	0.27%	0.037%
4	5.119	219	221	226	rVB4	7247	16569	0.27%	0.037%
5	5.953	287	292	297	rBV3	9360	17344	0.28%	0.039%
6	6.047	297	300	306	rVV	586671	910760	14.84%	2.046%
7	6.152	306	309	314	rVV	369629	570818	9.30%	1.282%
8	6.282	317	320	327	rVB	549589	893693	14.56%	2.007%
9	6.399	327	330	332	rBV2	7521	14618	0.24%	0.033%
10	6.680	350	354	359	rBV	726264	1179123	19.21%	2.648%
11	6.998	376	381	382	rVB3	5147	11969	0.19%	0.027%
12	7.375	410	413	417	rBV	634516	1028781	16.76%	2.311%
13	7.680	436	439	443	rBV	564942	898617	14.64%	2.018%
14	7.904	454	458	461	rVV3	5528	16990	0.28%	0.038%
15	8.303	489	492	496	rBV	565005	894575	14.57%	2.009%
16	8.785	529	533	536	rBV	697401	1188643	19.36%	2.670%
17	8.937	544	546	554	rBV4	14492	38177	0.62%	0.086%
18	9.078	554	558	561	rBV	795423	1346886	21.94%	3.025%
19	9.219	567	570	573	rBV	662896	923879	15.05%	2.075%
20	10.429	670	673	678	rBV3	13811	39926	0.65%	0.090%
21	11.063	725	727	730	rVB2	8451	14726	0.24%	0.033%
22	11.299	746	747	751	rVB2	20076	27511	0.45%	0.062%
23	12.109	812	816	819	rBV	1217207	1688295	27.50%	3.792%
24	12.333	831	835	838	rBV	1156194	1711254	27.87%	3.844%
25	12.439	841	844	847	rVB2	5256	10745	0.18%	0.024%
26	12.544	849	853	859	rVB2	16425	41564	0.68%	0.093%
27	12.662	859	863	866	rBV	1167655	1732370	28.22%	3.891%
28	12.956	884	888	891	rBV	886637	1557630	25.37%	3.499%
29	13.156	902	905	909	rBV	42919	100411	1.64%	0.226%
30	13.626	940	945	947	rBV2	14154	23807	0.39%	0.053%
31	13.743	951	955	958	rBV	1235232	1921830	31.30%	4.317%
32	13.908	965	969	972	rBV	661019	1009149	16.44%	2.267%
33	14.003	975	977	980	rVB	15949	25652	0.42%	0.058%
34	14.344	1002	1006	1009	rBV2	16367	29842	0.49%	0.067%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.565	1021	1025	1028	rVV	9272	13275	0.22%	0.030%
36	14.695	1033	1036	1037	rBV2	17060	28832	0.47%	0.065%
37	14.965	1055	1059	1062	rBV3	4151	11378	0.19%	0.026%
38	15.365	1091	1093	1097	rVB	6472	11989	0.20%	0.027%
39	15.483	1101	1103	1106	rVB2	6184	12585	0.20%	0.028%
40	15.636	1112	1116	1118	rBV2	21098	36983	0.60%	0.083%
41	15.695	1118	1121	1122	rVV2	9196	16268	0.26%	0.037%
42	15.754	1122	1126	1129	rVV	1077133	1960576	31.94%	4.404%
43	15.860	1131	1135	1139	rVV	1289620	2420248	39.42%	5.436%
44	15.919	1139	1140	1144	rVB	10266	16671	0.27%	0.037%
45	16.013	1144	1148	1151	rBV3	9400	26589	0.43%	0.060%
46	16.059	1151	1152	1157	rVB2	9005	18416	0.30%	0.041%
47	16.212	1163	1165	1168	rVB	31114	48836	0.80%	0.110%
48	16.518	1189	1191	1197	rVV2	19832	29302	0.48%	0.066%
49	16.659	1201	1203	1205	rVB	23739	32947	0.54%	0.074%
50	17.013	1230	1233	1240	rBV2	117933	252624	4.11%	0.567%
51	17.143	1242	1244	1247	rVV3	7143	15019	0.24%	0.034%
52	17.237	1249	1252	1253	rVB3	5127	10383	0.17%	0.023%
53	17.379	1260	1264	1266	rVB3	12585	24358	0.40%	0.055%
54	17.414	1266	1267	1270	rBV2	6327	11690	0.19%	0.026%
55	17.827	1301	1302	1306	rVB4	7130	11719	0.19%	0.026%
56	18.122	1325	1327	1329	rBV	7337	13273	0.22%	0.030%
57	18.179	1331	1332	1335	rVB2	8011	13926	0.23%	0.031%
58	18.286	1339	1341	1344	rVB2	7089	13897	0.23%	0.031%
59	18.369	1344	1348	1351	rBV	17129	41200	0.67%	0.093%
60	18.556	1361	1364	1368	rVB2	20257	39715	0.65%	0.089%
61	18.722	1373	1378	1381	rBV	1939851	3532094	57.53%	7.933%
62	18.829	1384	1387	1393	rBV	243198	475559	7.75%	1.068%
63	19.195	1416	1418	1420	rBV2	5544	11623	0.19%	0.026%
64	19.290	1425	1426	1430	rVB2	5526	11407	0.19%	0.026%
65	19.443	1437	1439	1441	rBV3	6331	14230	0.23%	0.032%
66	19.704	1458	1461	1464	rBV3	17704	36909	0.60%	0.083%
67	19.905	1475	1478	1479	rBV2	9288	17210	0.28%	0.039%
68	20.199	1500	1503	1512	rBV	324000	676940	11.03%	1.520%
69	20.363	1514	1517	1529	rVB	452024	980851	15.98%	2.203%
70	20.944	1564	1566	1571	rVV4	18639	51593	0.84%	0.116%
71	21.026	1571	1573	1576	rVV2	22108	55137	0.90%	0.124%

LSC Area Percent Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : P:\HPCHEM1\BNA_A\Method\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	21.098	1576	1579	1590	rVV2	368559	1092117	17.79%	2.453%
73	21.286	1591	1595	1600	rVV	763965	1520502	24.77%	3.415%
74	21.381	1600	1603	1612	rVB	90069	214039	3.49%	0.481%
75	21.760	1633	1635	1638	rBV4	6187	10654	0.17%	0.024%
76	21.819	1638	1640	1643	rBV4	14207	31869	0.52%	0.072%
77	22.043	1658	1659	1662	rVB3	7844	10999	0.18%	0.025%
78	22.326	1680	1683	1684	rBV3	6265	11488	0.19%	0.026%
79	22.596	1704	1706	1707	rBV2	16317	23565	0.38%	0.053%
80	22.820	1723	1725	1727	rBV2	7755	11928	0.19%	0.027%
81	23.376	1766	1772	1785	rBV	1903266	6139184	100.00%	13.789%
82	23.660	1793	1796	1801	rVB2	87010	236187	3.85%	0.531%
83	24.203	1839	1842	1843	rVB3	8679	14893	0.24%	0.033%
84	24.239	1843	1845	1849	rBV4	7578	21752	0.35%	0.049%
85	24.463	1860	1864	1867	rBV5	20028	57761	0.94%	0.130%
86	24.829	1887	1895	1907	rVB	713189	2524491	41.12%	5.670%
87	25.077	1909	1916	1922	rVB	376158	1247891	20.33%	2.803%
88	25.634	1961	1963	1971	rVB7	9179	30701	0.50%	0.069%
89	26.449	2031	2032	2035	rBV3	8112	14121	0.23%	0.032%
90	26.922	2070	2072	2074	rVB2	7710	11921	0.19%	0.027%
91	27.061	2077	2084	2088	rBV8	14033	73150	1.19%	0.164%
92	27.215	2090	2097	2102	rBV7	30538	168801	2.75%	0.379%
93	28.372	2193	2195	2198	rVB4	6828	11106	0.18%	0.025%
94	28.689	2218	2222	2223	rBV3	6432	10938	0.18%	0.025%
95	29.503	2289	2291	2294	rBV3	5060	11396	0.19%	0.026%
96	30.354	2361	2363	2367	rBV4	6459	17154	0.28%	0.039%
97	31.677	2474	2475	2477	rBV	5946	11116	0.18%	0.025%
98	32.315	2527	2529	2536	rVB5	5533	15433	0.25%	0.035%
99	32.881	2575	2577	2582	rVB3	5920	11851	0.19%	0.027%
100	33.224	2602	2606	2607	rBV3	6482	10863	0.18%	0.024%

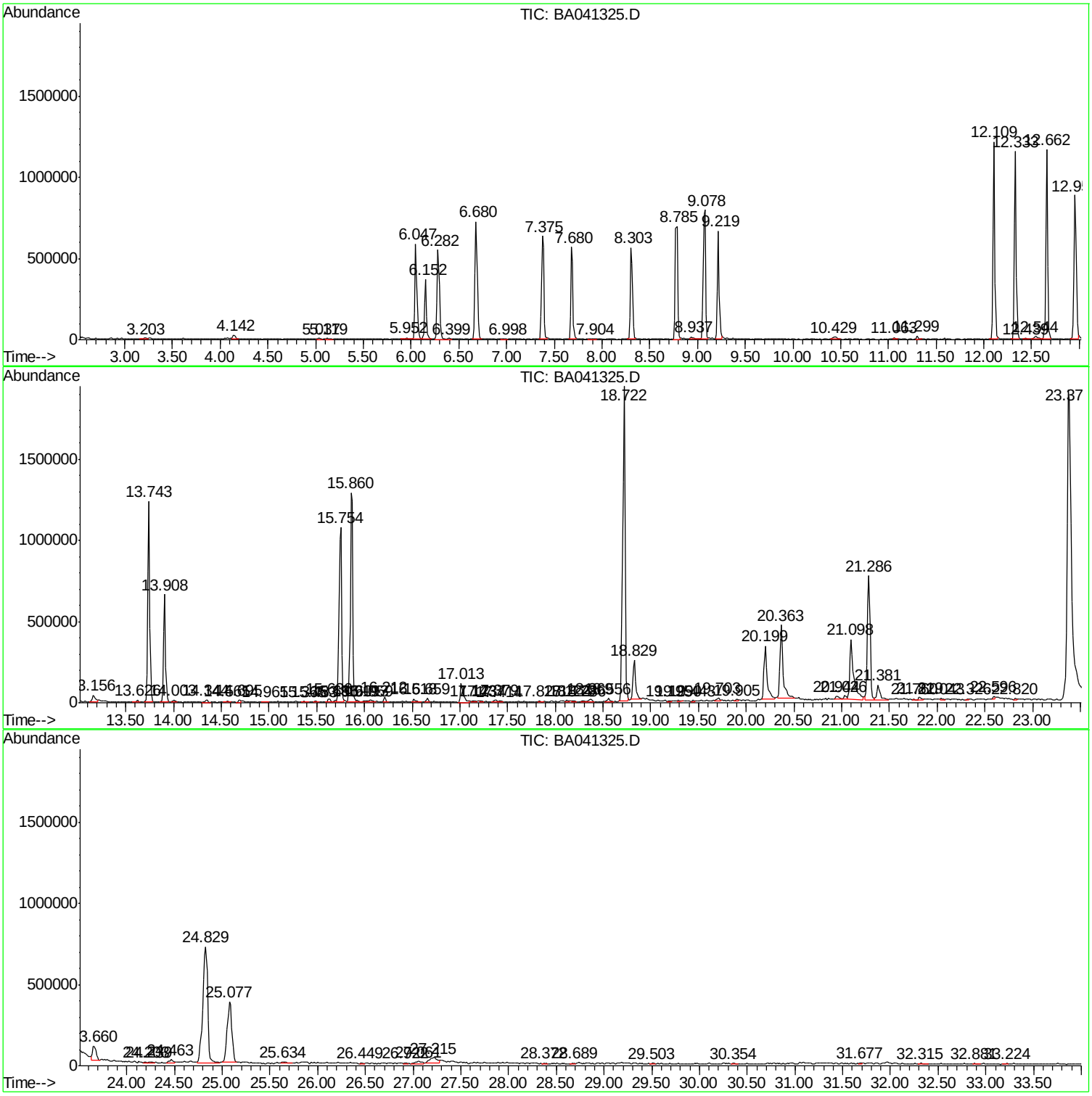
Sum of corrected areas: 44521433

LSC Report - Integrated Chromatogram

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

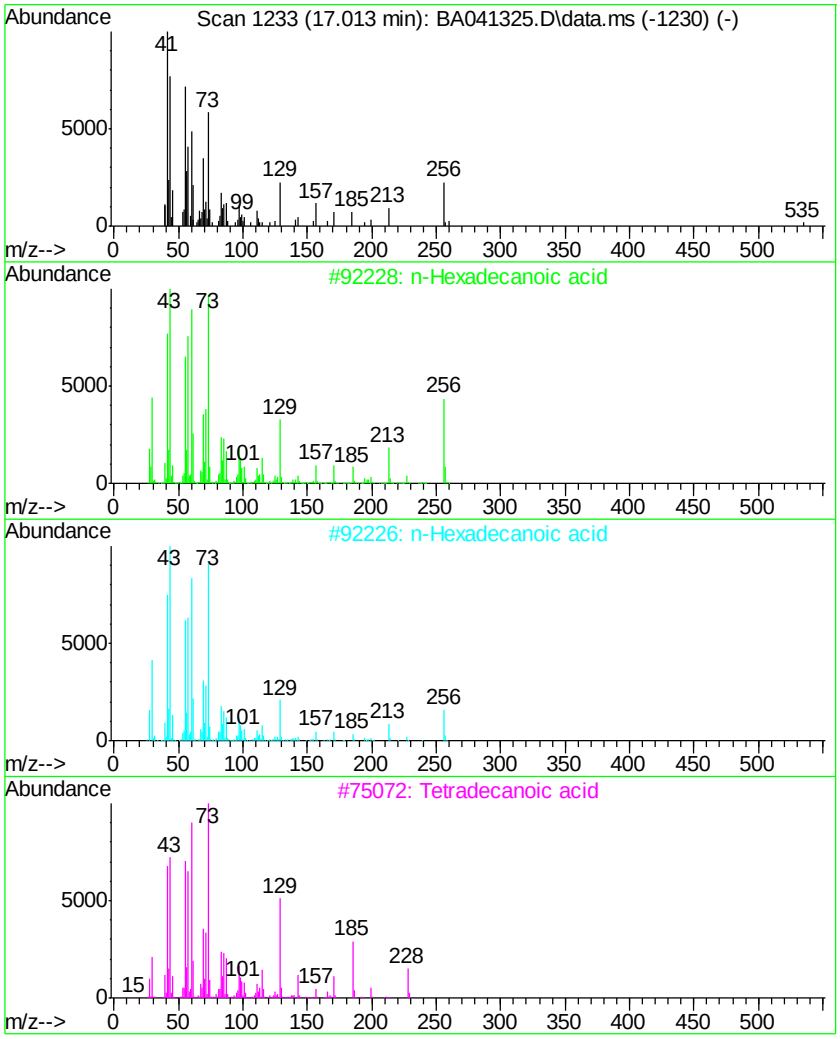
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

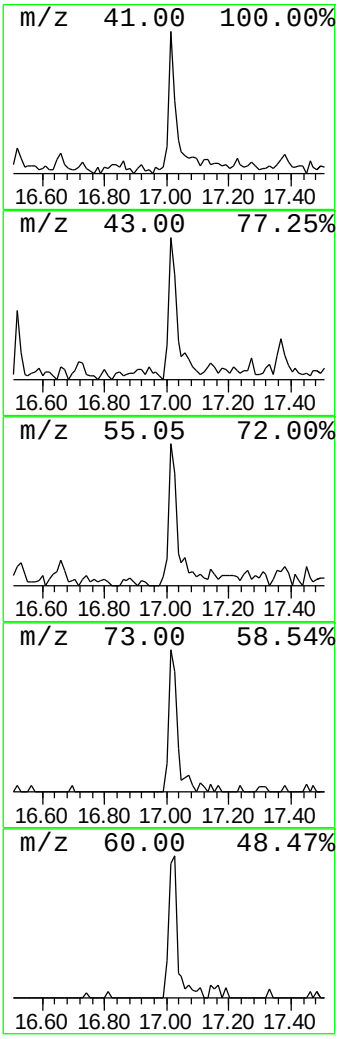
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.010	2.58 ng/ul	252624	Phenanthrene-d10	15.742

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	59
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	47
4	1-Phenazinecarboxylic acid, 6-[1...	506	C31H42N2O4	120464-92-8	47
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	43





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

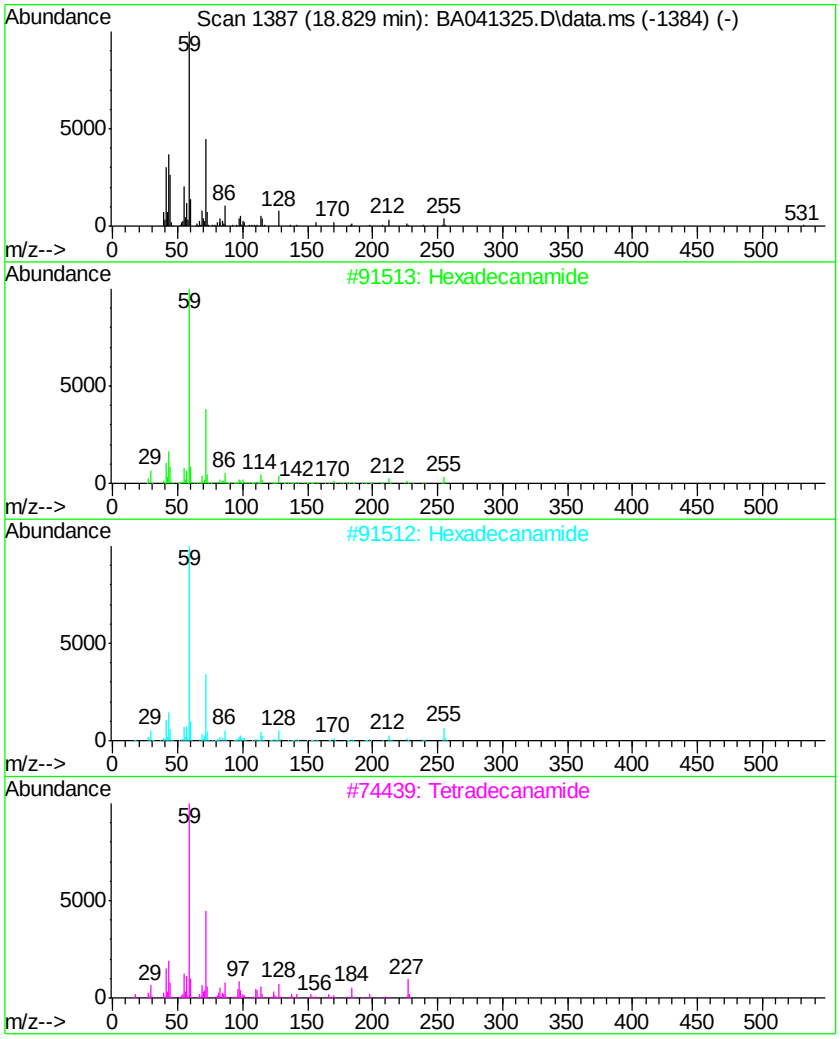
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

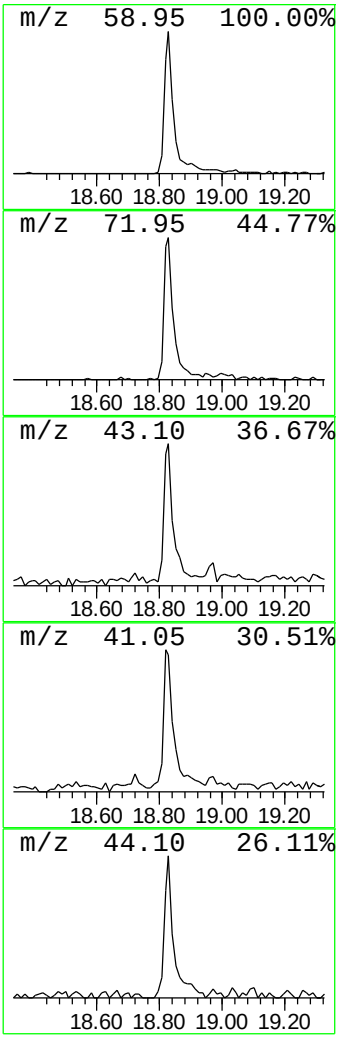
****

Peak Number 2 Hexadecanamide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.830	6.26 ng/ul	475559	Chrysene-d12	21.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	96
2	Hexadecanamide	255	C16H33NO	000629-54-9	93
3	Tetradecanamide	227	C14H29NO	000638-58-4	81
4	Tetradecanamide	227	C14H29NO	000638-58-4	80
5	Tetradecanamide	227	C14H29NO	000638-58-4	74





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

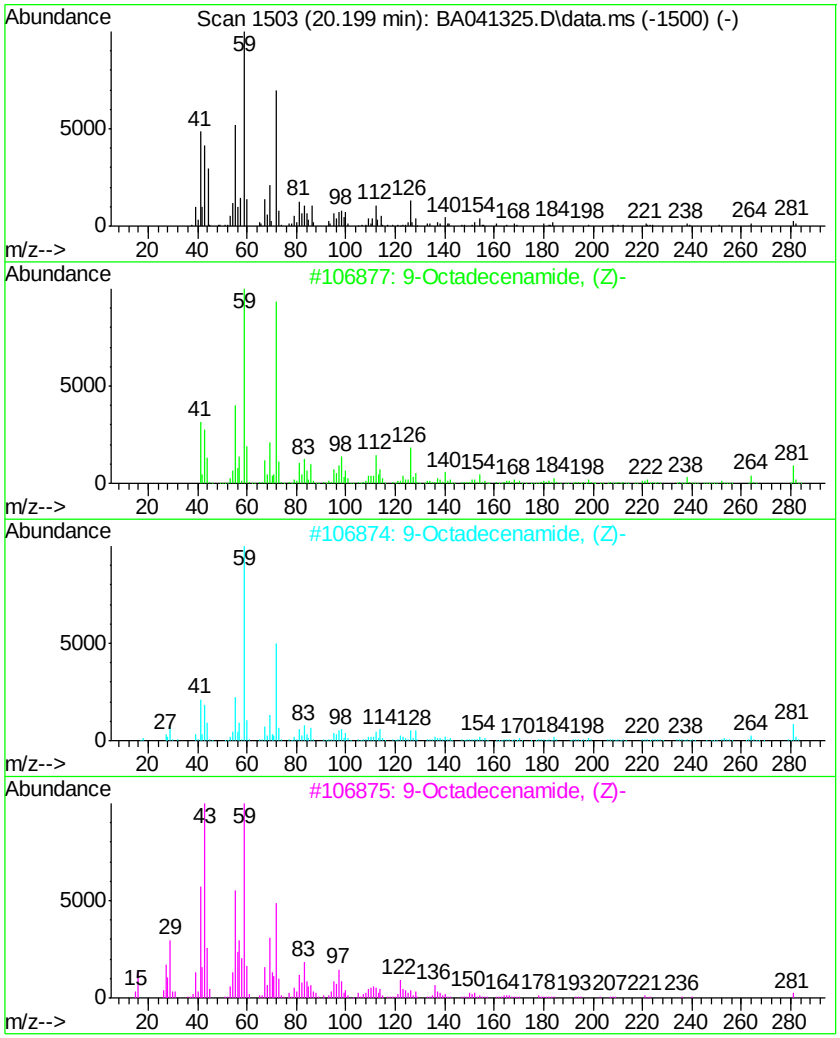
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

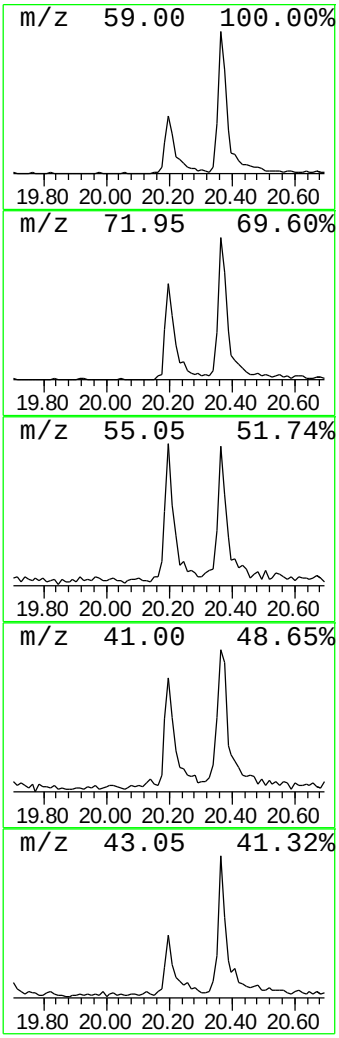
****

Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.200	8.90 ng/ul	676940	Chrysene-d12	21.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	92
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	91
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	80
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
5	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	58





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

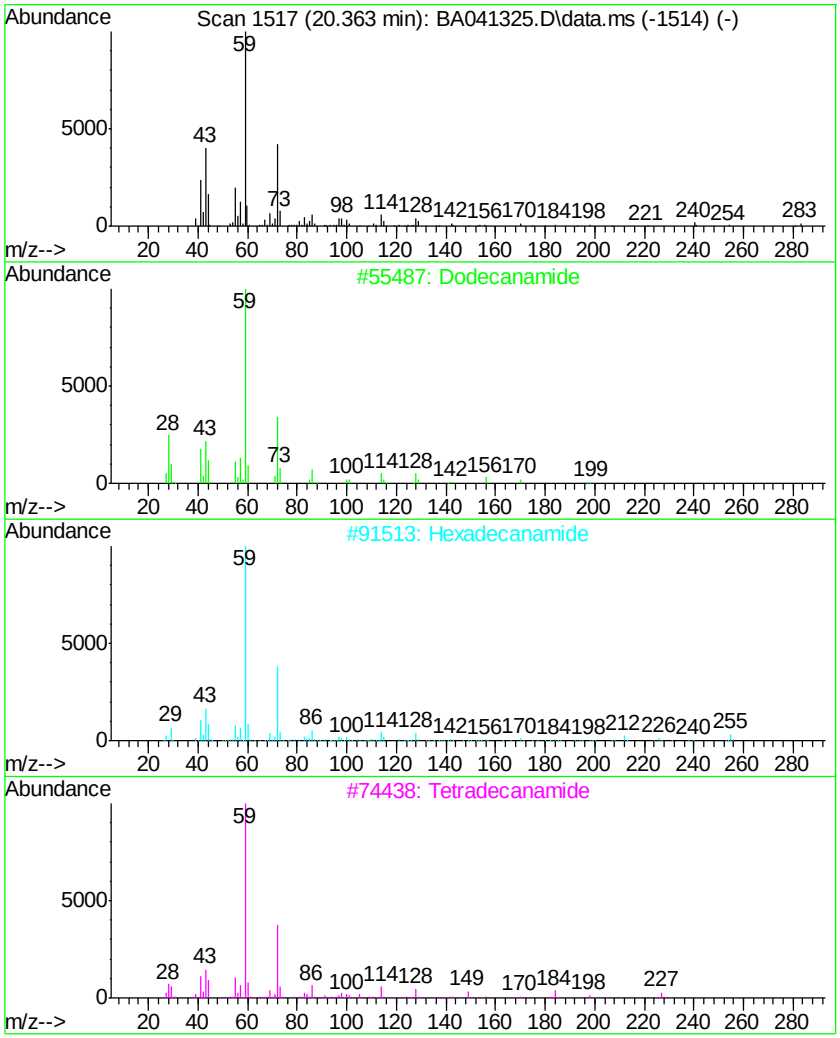
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

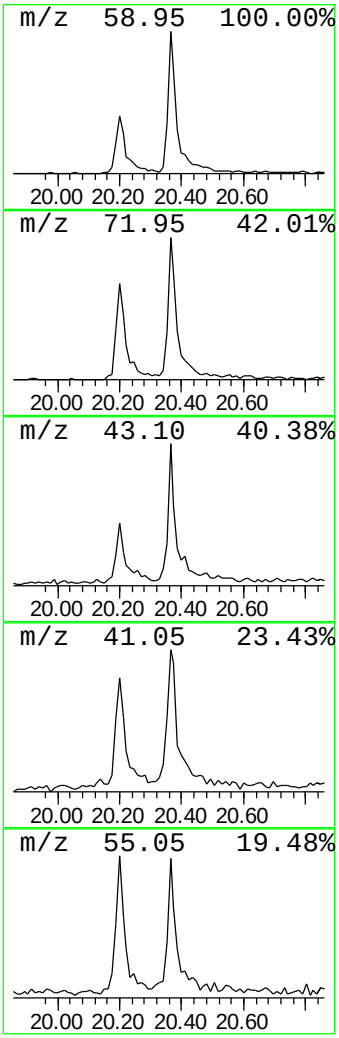
****

Peak Number 4 Dodecanamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.360	12.90 ng/ul	980851	Chrysene-d12	21.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecanamide	199	C12H25NO	001120-16-7	86
2	Hexadecanamide	255	C16H33NO	000629-54-9	83
3	Tetradecanamide	227	C14H29NO	000638-58-4	83
4	Dodecanamide	199	C12H25NO	001120-16-7	78
5	Hexadecanamide	255	C16H33NO	000629-54-9	78





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

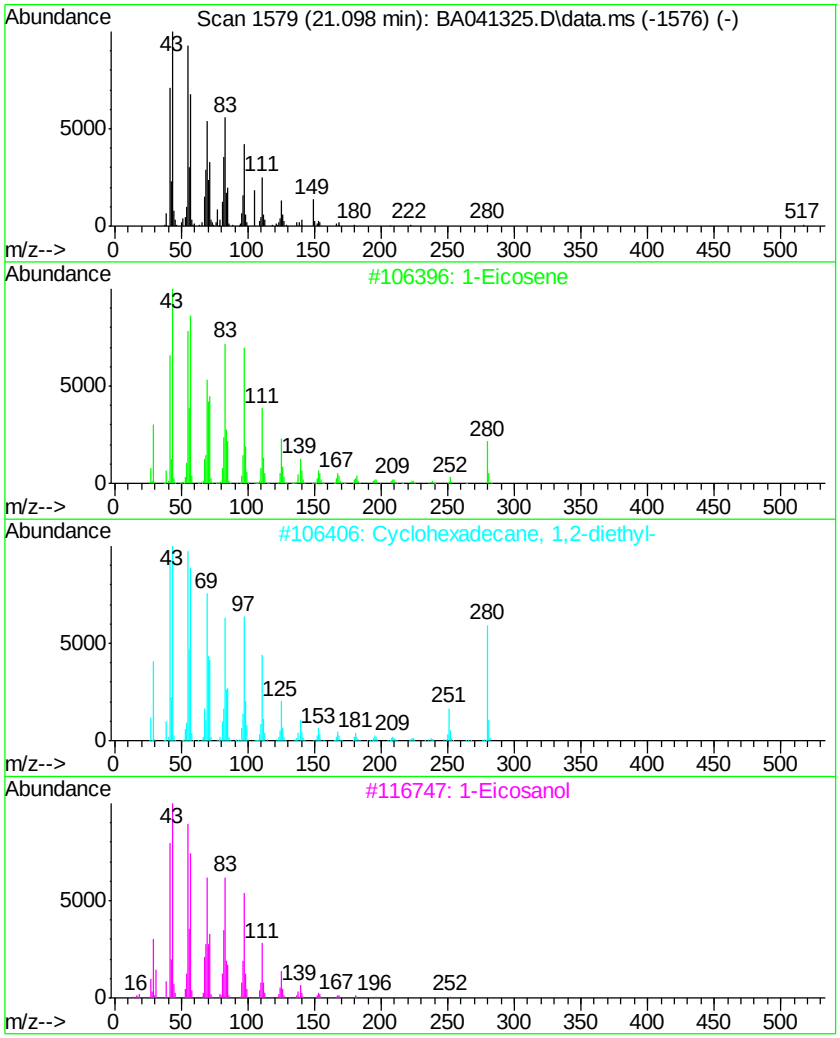
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

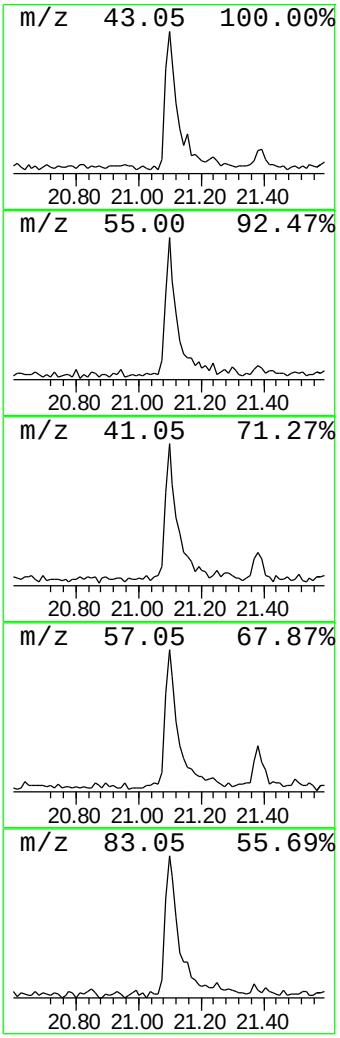
****

Peak Number 5 1-Eicosene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.100	14.37 ng/ul	1092120	Chrysene-d12	21.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosene	280	C20H40	003452-07-1	90
2	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	90
3	1-Eicosanol	298	C20H42O	000629-96-9	87
4	1-Eicosanol	298	C20H42O	000629-96-9	87
5	1-Heneicosyl formate	340	C22H44O2	077899-03-7	83





Library Search Compound Report

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Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On    : 20 Oct 2008  16:42
Operator  : HNP
Sample    : PB37183BRE
Misc      :
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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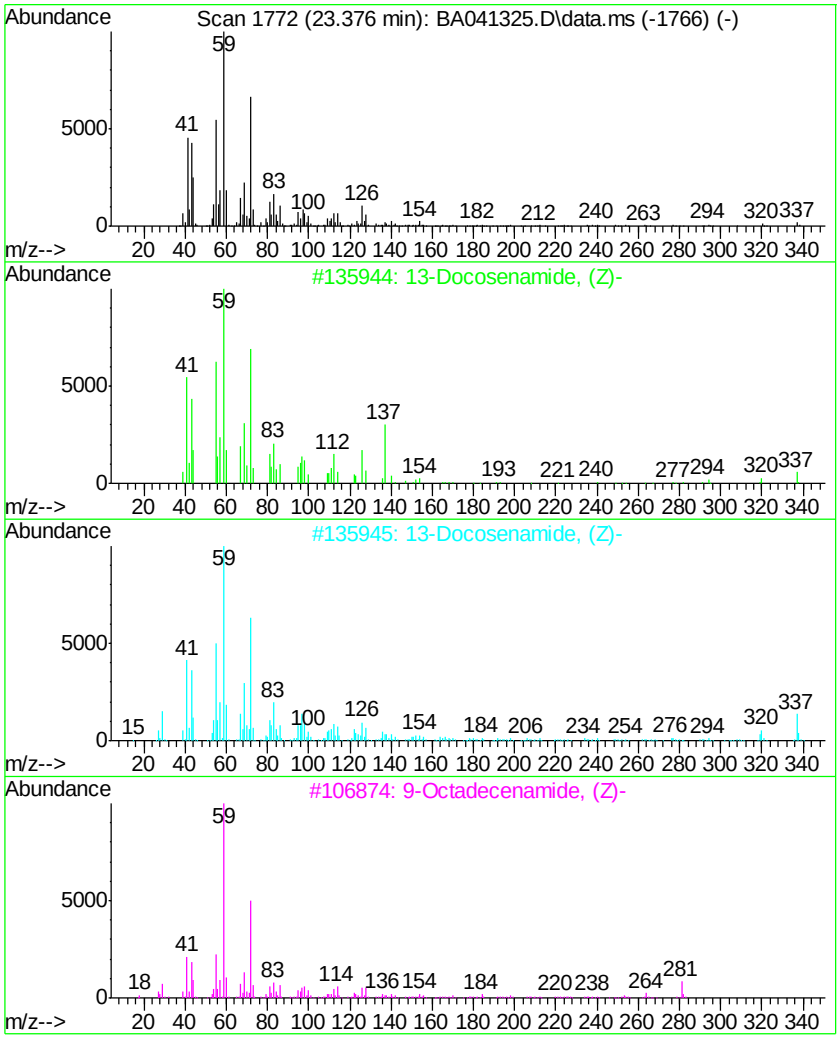
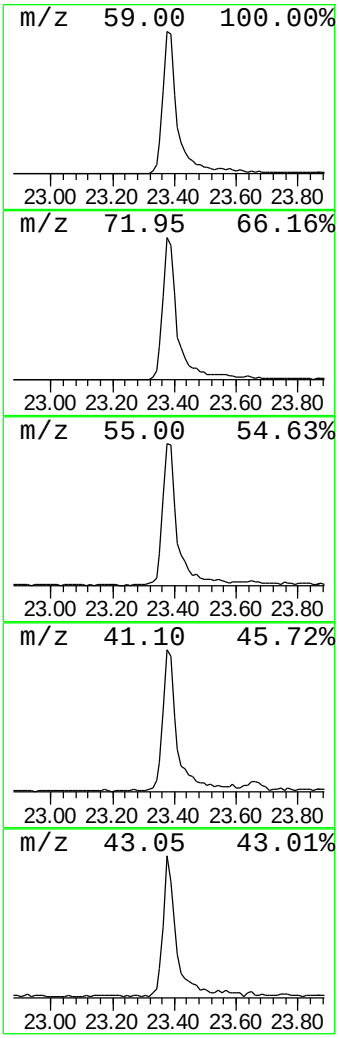
****

Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.380	98.39 ng/ul	6139180	Perylene-d12	25.077

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	81
2	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	76
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
4	Octanamide	143	C8H17NO	000629-01-6	59
5	Dodecanamide	199	C12H25NO	001120-16-7	59





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

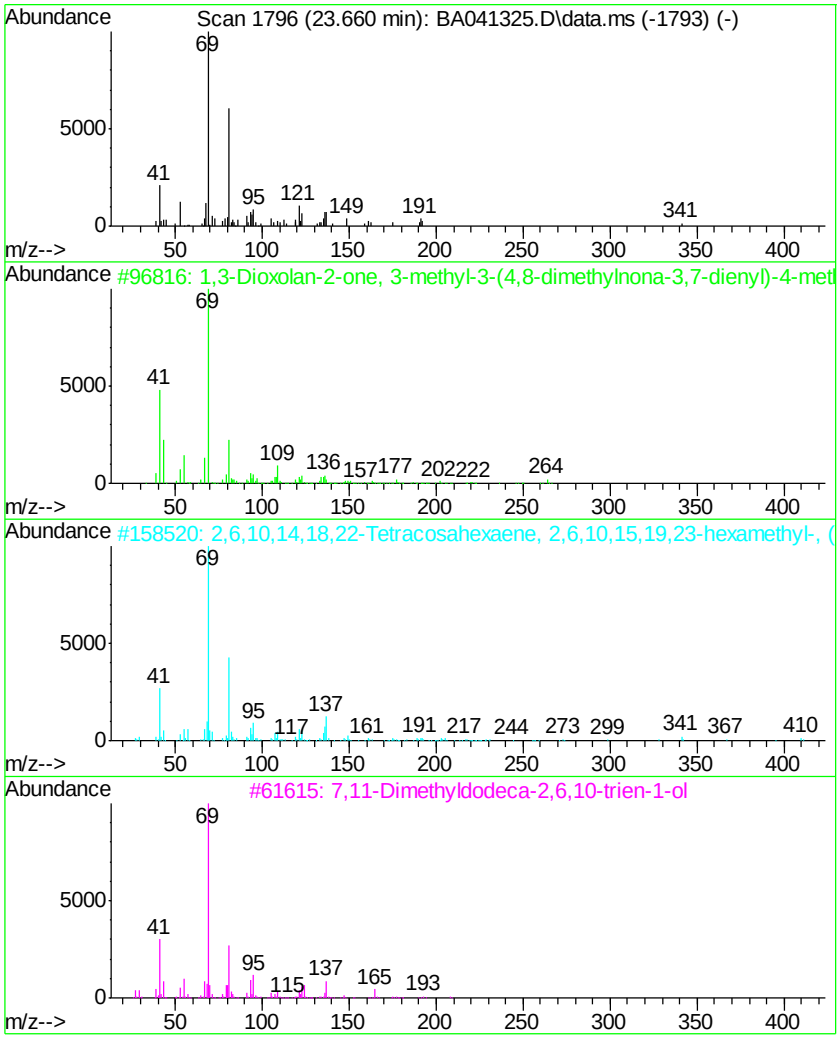
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

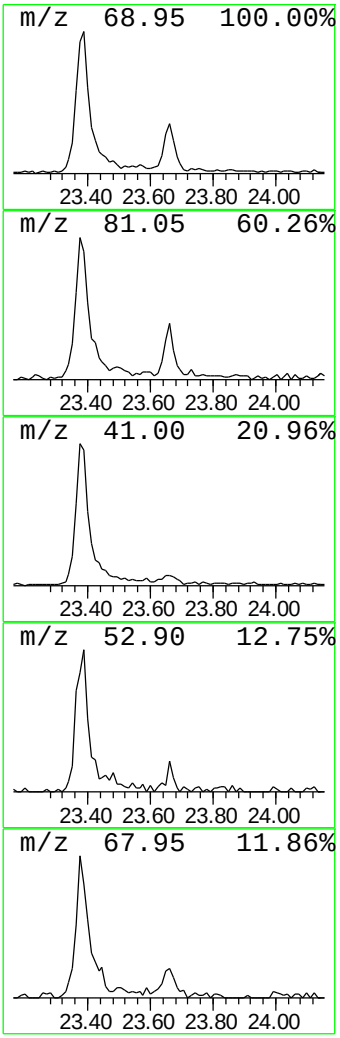
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 1,3-Dioxolan-2-one, 3-methy... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.660	3.79 ng/ul	236187	Perylene-d12	25.077

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolan-2-one, 3-methyl-3-(...	264	C16H24O3	336879-76-6	64
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	64
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	59
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	56
5	3-Cyclohexene-1-carboxaldehyde, ...	192	C13H20O	052475-89-5	53





Library Search Compound Report

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

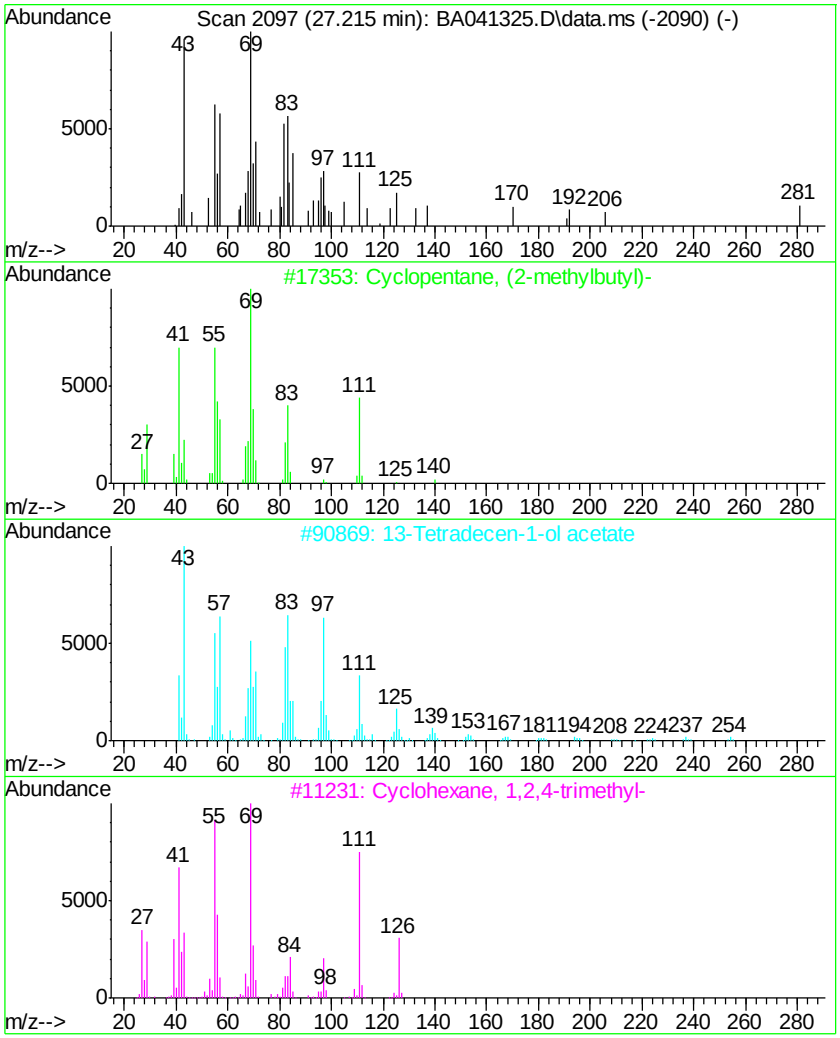
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

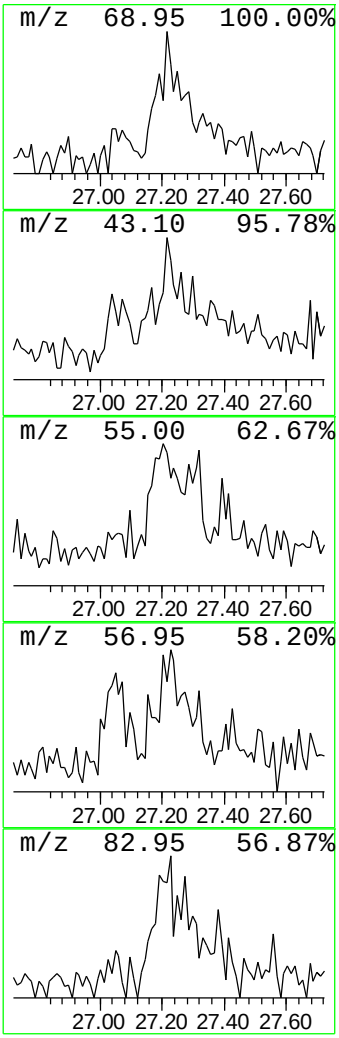
****

Peak Number 8 unknown27.22 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.220	2.71 ng/ul	168801	Perylene-d12	25.077

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, (2-methylbutyl)-	140	C10H20	053366-38-4	38
2	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	38
3	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	38
4	Cyclohexane, (1,2-dimethylbutyl)-	168	C12H24	061142-37-8	38
5	1-Hexadecanol	242	C16H34O	036653-82-4	35





Tentatively Identified Compound (LSC) summary

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic ...	17.010	2.6	ng/ul	252624	4	15.742	1960580	20.0
Hexadecanamide	18.830	6.3	ng/ul	475559	5	21.286	1520500	20.0
9-Octadecenamid...	20.200	8.9	ng/ul	676940	5	21.286	1520500	20.0
Dodecanamide	20.360	12.9	ng/ul	980851	5	21.286	1520500	20.0
1-Eicosene	21.100	14.4	ng/ul	1092120	5	21.286	1520500	20.0
13-Docosenamide...	23.380	98.4	ng/ul	6139180	6	25.077	1247890	20.0
1,3-Dioxolan-2-...	23.660	3.8	ng/ul	236187	6	25.077	1247890	20.0
unknown27.22	27.220	2.7	ng/ul	168801	6	25.077	1247890	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-1A[0.0-0.5]MS

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-01MS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041350.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 10.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	940	
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	930	
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	87	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	1000	
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	960	
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	950	
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	890	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC4-1A[0.0-0.5]MS

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-01MS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041350.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 10.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

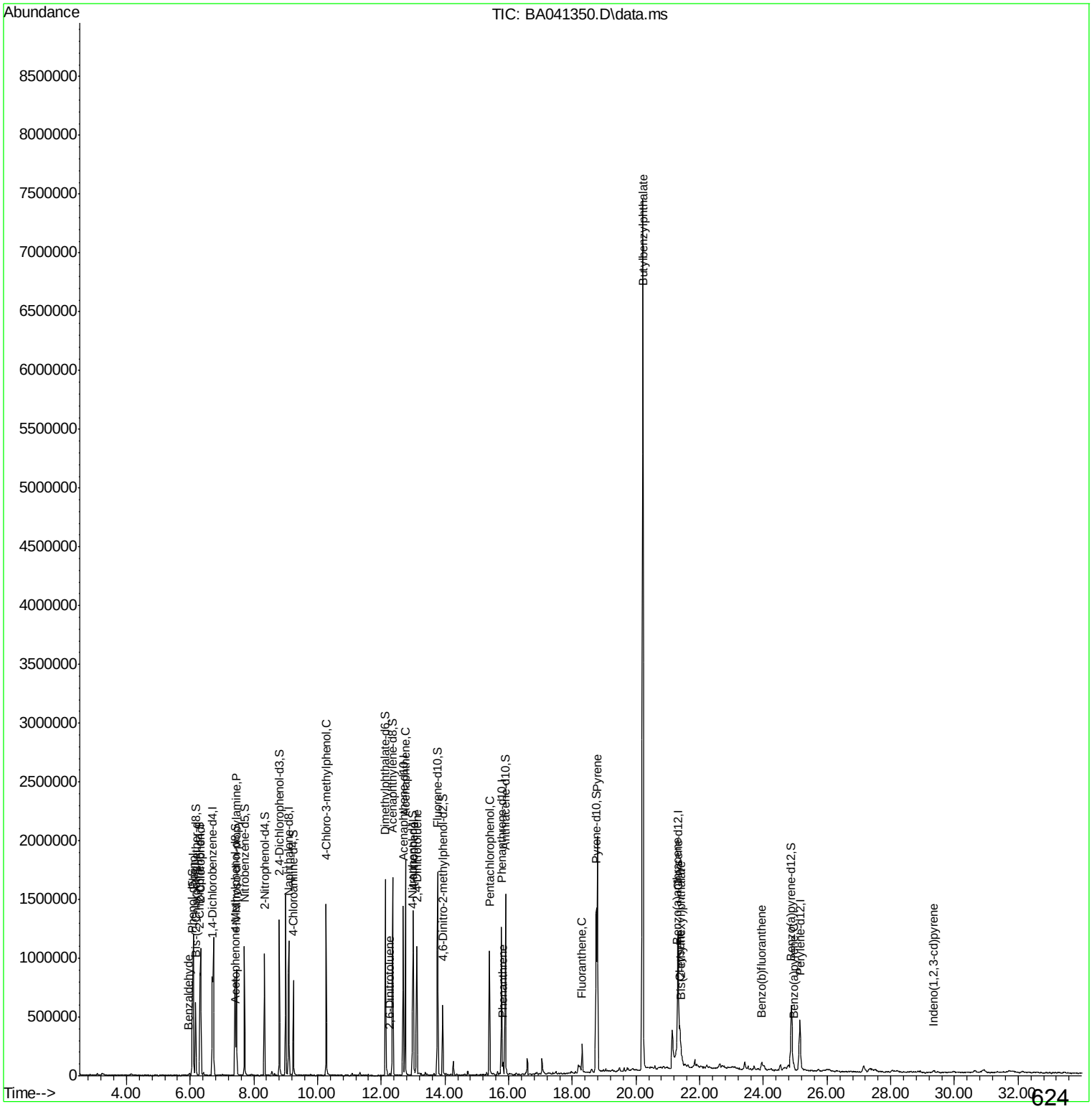
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	930	
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	830	
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	6500	E
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	74	J
218-01-9	Chrysene	89	J
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	92	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	71	J
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1]Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041350.D
Acq On : 21 Oct 2008 9:58
Operator : HNP
Sample : Z4923-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 21 12:48:33 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041350.D
Acq On : 21 Oct 2008 9:58
Operator : HNP
Sample : Z4923-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 21 12:48:33 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.706	152	230339	20.00	ng/ul	0.03
16) Naphthalene-d8	9.099	136	771175	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.685	164	545788	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.771	188	1011391	20.00	ng/ul	0.02
73) Chrysene-d12	21.327	240	715785	20.00	ng/ul	0.04
81) Perylene-d12	25.146	264	545726	20.00	ng/ul	0.07
System Monitoring Compounds						
3) Phenol-d5	6.071	99	348125	24.96	ng/ul	0.01
5) Bis-(2-Chloroethyl)eth...	6.177	67	237434	25.11	ng/ul	0.02
7) 2-Chlorophenol-d4	6.306	132	309796	26.14	ng/ul	0.01
11) 4-Methylphenol-d8	7.413	113	234610	24.80	ng/ul	0.03
17) Nitrobenzene-d5	7.708	128	184665	27.05	ng/ul	0.02
20) 2-Nitrophenol-d4	8.332	143	225251	26.80	ng/ul	0.02
24) 2,4-Dichlorophenol-d3	8.804	165	370343	23.81	ng/ul	0.02
27) 4-Chloroaniline-d4	9.240	131	307777	20.01	ng/ul	0.02
41) Dimethylphthalate-d6	12.132	166	986397	27.14	ng/ul	0.02
44) Acenaphthylene-d8	12.355	160	1149331	26.01	ng/ul	0.02
49) 4-Nitrophenol-d4	12.992	143	213523	28.82	ng/ul	0.03
55) Fluorene-d10	13.770	176	733537	25.09	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.936	200	151600	14.48	ng/ul	0.02
68) Anthracene-d10	15.900	188	1094237	22.60	ng/ul	0.04
74) Pyrene-d10	18.758	212	1183176	37.83	ng/ul	0.04
85) Benzo(a)pyrene-d12	24.881	264	710918	23.92	ng/ul	0.06
Target Compounds						Qvalue
2) Benzaldehyde	5.941	77	2804	0.45	ng/ul#	76
4) Phenol	6.095	94	383167	25.32	ng/ul	96
8) 2-Chlorophenol	6.330	128	338030	25.22	ng/ul	98
12) Acetophenone	7.425	105	43696	2.36	ng/ul	98
13) N-Nitroso-di-n-propyla...	7.460	70	267132	28.31	ng/ul#	83
31) 4-Chloro-3-methylphenol	10.273	107	354154	26.03	ng/ul	87
43) 2,6-Dinitrotoluene	12.273	165	3725	0.37	ng/ul#	86
47) Acenaphthene	12.756	153	735277	25.70	ng/ul	95
50) 4-Nitrophenol	13.016	109	213161	23.99	ng/ul	90
52) 2,4-Dinitrotoluene	13.123	165	330881	25.27	ng/ul#	72
66) Pentachlorophenol	15.405	266	249491	22.52	ng/ul	94
67) Phenanthrene	15.817	178	64289	1.25	ng/ul#	93
72) Fluoranthene	18.308	202	187672	3.07	ng/ul#	93
75) Pyrene	18.794	202	1502549	37.83	ng/ul#	96
76) Butylbenzylphthalate	20.216	149	3385031	175.88	ng/ul#	94
78) Benzo(a)anthracene	21.305	228	76407	2.01	ng/ul	96
79) Bis(2-ethylhexyl)phtha...	21.407	149	25715	1.28	ng/ul#	84
80) Chrysene	21.373	228	77655m	2.41	ng/ul	
83) Benzo(b)fluoranthene	23.948	252	88813	2.49	ng/ul#	89
86) Benzo(a)pyrene	24.951	252	59045	1.92	ng/ul#	83
87) Indeno(1,2,3-cd)pyrene	29.353	276	31652	1.10	ng/ul#	73

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041350.D
Acq On : 21 Oct 2008 9:58
Operator : HNP
Sample : Z4923-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 21 12:48:33 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-1A[0.0-0.5]MSD

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-01MSD

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041351.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 10.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	1100	
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	1000	
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	98	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	1100	
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	1100	
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	1100	
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	1000	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC4-1A[0.0-0.5]MSD

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4923 Mod. Ref No.: Z4923 SDG No.: Z4923

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4923-01MSD

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041351.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 10.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/21/2008

GPC Cleanup: (Y/N) Y pH: 7.57 Dilution Factor: 1.0

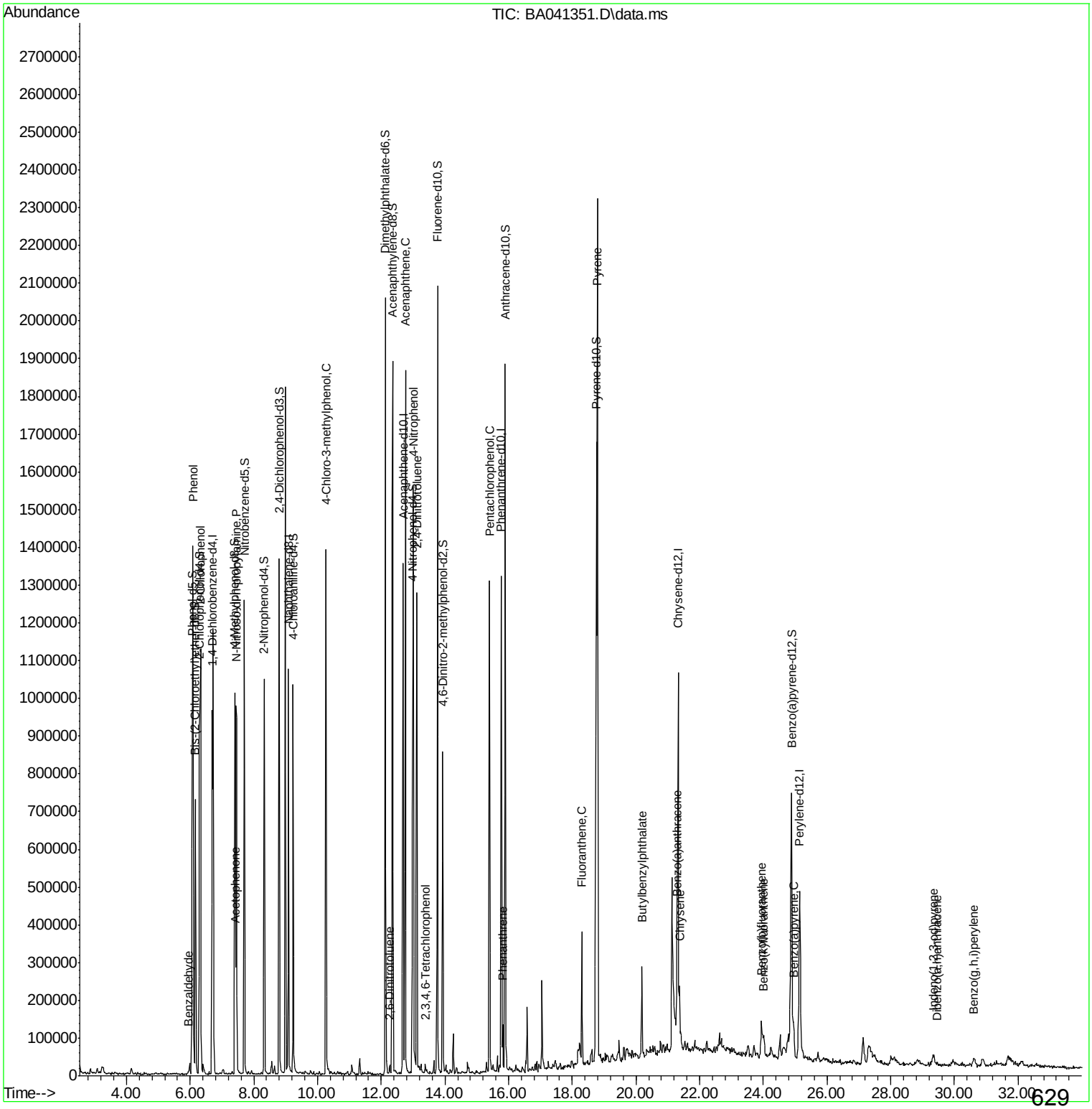
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	1100	
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	960	
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	160	J
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	98	J
218-01-9	Chrysene	130	J
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	130	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	99	J
193-39-5	Indeno(1,2,3-cd)pyrene	65	J
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1]Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041351.D
Acq On : 21 Oct 2008 10:39
Operator : HNP
Sample : Z4923-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 21 12:50:21 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041351.D
Acq On : 21 Oct 2008 10:39
Operator : HNP
Sample : Z4923-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 21 12:50:21 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.691	152	237702	20.00	ng/ul	0.01
16) Naphthalene-d8	9.083	136	775590	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.685	164	570557	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.768	188	1042731	20.00	ng/ul	0.01
73) Chrysene-d12	21.322	240	788919	20.00	ng/ul	0.03
81) Perylene-d12	25.138	264	583899	20.00	ng/ul	0.06
System Monitoring Compounds						
3) Phenol-d5	6.067	99	424872	29.52	ng/ul	0.00
5) Bis-(2-Chloroethyl)eth...	6.162	67	303215	31.08	ng/ul	0.00
7) 2-Chlorophenol-d4	6.303	132	377923	30.90	ng/ul	0.01
11) 4-Methylphenol-d8	7.398	113	288712	29.57	ng/ul	0.01
17) Nitrobenzene-d5	7.705	128	222402	32.39	ng/ul	0.01
20) 2-Nitrophenol-d4	8.329	143	266436	31.52	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.801	165	451267	28.85	ng/ul	0.01
27) 4-Chloroaniline-d4	9.236	131	382363	24.72	ng/ul	0.01
41) Dimethylphthalate-d6	12.132	166	1182636	31.12	ng/ul	0.02
44) Acenaphthylene-d8	12.356	160	1389263	30.07	ng/ul	0.02
49) 4-Nitrophenol-d4	12.991	143	265512	34.28	ng/ul	0.03
55) Fluorene-d10	13.768	176	883111	28.90	ng/ul	0.03
60) 4,6-Dinitro-2-methylph...	13.933	200	206020	19.09	ng/ul	0.01
68) Anthracene-d10	15.886	188	1377981	27.61	ng/ul	0.02
74) Pyrene-d10	18.742	212	1456387	42.25	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.890	264	969929	30.50	ng/ul	0.07
Target Compounds						Qvalue
2) Benzaldehyde	5.937	77	3427	0.53	ng/ul	96
4) Phenol	6.091	94	447273	28.65	ng/ul	96
8) 2-Chlorophenol	6.327	128	378192	27.34	ng/ul#	90
12) Acetophenone	7.422	105	50726	2.66	ng/ul	91
13) N-Nitroso-di-n-propyla...	7.445	70	291312	29.91	ng/ul	99
31) 4-Chloro-3-methylphenol	10.271	107	409716	29.94	ng/ul	89
43) 2,6-Dinitrotoluene	12.273	165	3488	0.33	ng/ul	93
47) Acenaphthene	12.756	153	852981	28.52	ng/ul	96
50) 4-Nitrophenol	13.015	109	262027	28.21	ng/ul	94
52) 2,4-Dinitrotoluene	13.120	165	394135	28.80	ng/ul#	69
53) 2,3,4,6-Tetrachlorophenol	13.380	232	5294	0.42	ng/ul#	80
66) Pentachlorophenol	15.402	266	297574	26.06	ng/ul	95
67) Phenanthrene	15.815	178	67019	1.26	ng/ul	98
72) Fluoranthene	18.306	202	289967	4.59	ng/ul#	95
75) Pyrene	18.789	202	1774336	40.53	ng/ul#	94
76) Butylbenzylphthalate	20.183	149	90796	4.28	ng/ul	93
78) Benzo(a)anthracene	21.288	228	110439m	2.64	ng/ul	
80) Chrysene	21.368	228	126748	3.57	ng/ul#	92
83) Benzo(b)fluoranthene	23.944	252	136216m	3.57	ng/ul	
84) Benzo(k)fluoranthene	24.015	252	36680m	1.13	ng/ul	
86) Benzo(a)pyrene	24.948	252	87844	2.67	ng/ul#	83
87) Indeno(1,2,3-cd)pyrene	29.335	276	54278	1.76	ng/ul#	83
88) Dibenzo(a,h)anthracene	29.452	278	12254	0.52	ng/ul#	87

Quantitation Report (QT Reviewed)

Data Path : P:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041351.D
Acq On : 21 Oct 2008 10:39
Operator : HNP
Sample : Z4923-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 21 12:50:21 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo(g,h,i)perylene	30.607	276	38487	1.23 ng/ul#	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CHEMTECH

SEMI-VOLATILE MISCELLANEOUSDATA

CHEMTECH

Lab Chronicle

Order ID:	Z4923	Order Date:	10/9/2008
Client:	Dewberry	Project:	Connecticut Superfund Site
Contact:	Corey Nachshen	Location	I51

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Z4923-01	**AOC4-1A[0.0-0.5]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-02	**AOC4-1B[4.5-5.0]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-03	**AOC4-2A[0.0-0.5]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-04	**AOC4-2B[4.5-5.0]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4923-05	**AOC4-3A[0.0-0.5]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-06	**AOC4-3B[4.5-5.0]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-07	**AOC3-2A[0.0-0.5]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4923-08	**AOC3-2B[4.0-4.5]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4923-09	**AOC3-3A[0.0-0.5]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-10	**AOC3-3B[4.0-4.5]**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-11	**BACK1A**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-12	**BACK1B**	**SOIL**			**10/08/08**			**10/09/08**

			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4923-13	**BACK2A**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/21/08	
Z4923-14	**BACK2B**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4923-15	**BACK3A**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4923-16	**BACK3B**	**SOIL**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4923-17	**FB**	**WATER**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/19/08	
Z4923-18	**FB_**	**WATER**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/19/08	
Z4923-19	**RB**	**WATER**			**10/08/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/19/08	

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Z4923 MATRIX: Water/SOIL

METHOD: SOM01.2

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
a.	Calibration Check Compounds for 8270 and CLP.			
b.	System Performance Check Compounds for 8270 and CLP			

8270 CALIBRATION CRITERIA

SPCC Compounds	MINRF	CCC Compounds Base/Neutral Fraction	CCC Compounds Acid Fraction
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

		NA	NO	YES
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

The Blank analysis indicated presence of Bis(2-ethylhexyl)phthalate (1.3 ugL) in file id BA041294.D and BA041301.D, due to possible lab contamination.

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NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for SBLK01, SBLK02RE, FB, FB_, RB, SBLK03, SBLK03RE, AOC4-2B[4.5-5.0], AOC3-2B[4.0-4.5], AOC4-1B[4.5-5.0], BACK1A, AOC3-3B[4.0-4.5] and AOC3-3A[0.0-0.5].			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: The Calibration File ID BA041323.D met the requirements except for 4-Nitroaniline. The Calibration File ID BA041340.D met the requirements except for Benzaldehyde.

QA RE Kalpana Raythattha
I have reviewed this document
2008.11.03 14:06:57 -05'00'

CHEMTECH EXTRACTION LOGPAGE

SOP#: M 5omo1.2

Matrix : Water

Clean Up Method: N/A.

Review By:

Batch# PB37177

Extraction Date : 10/13/2008 12:00:00 AM

Extracted By : MBS/ZVR

Method of Extraction

- [ ] Seperatory Funnel
- [x] Continious Liquid/Liquid
- [ ] Sonication
- [ ] Waste Dilution
- [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	40 ppm.	OEP1878

10-16

Chemical Used	Lot Number
Methylene Chloride	ER1535
Sodium Sulfate	ER1498
H2SO4 1:1	X811

10-16

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 59 c

Received Date: 10/16/08

Delivered Date: 10/16/08

Envap Temperature: 40 c

Received By:

Delivered By:

Analysis Group: HM, HP, QM

Extraction Group : BE, BP, DM, DP, DR, DS, IG, JM, JR, MA, MGS, MS, RP, SA

CHEMTECH

EXTRACTION LOGPAGE

— Water —

Method: SOW01.2 Supervisor Review: Date: 10/16/08 PREP Batch #: PB37177

Extraction Date: 10/13/2008 Initials: MBS Concentration Date: 10/14/08 Initials: JR

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
Z4920-01	RB-1	SVOCMS Group1	980	2 6	RO/MBS	1	
Z4923-17	FB	SVOCMS Group1	980	2 6			
Z4923-18	FB	SVOCMS Group1	940	2 5			
Z4923-19	RB	SVOCMS Group1	920	2 6			
Z4932-02	FIELDBLANK	SVOCMS Group1	970	2 5			10/16/08
Z4932-03	RINSATEBLANK	SVOCMS Group1	930	2 6			
PB37177BL		SVOCMS Group1	1000	2 5			

10/13

>>>

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

CHEMTECH EXTRACTION LOGPAGE PrepBatch ID PB37177

Method:_____ Supervisor Review:_____ Date:_____/_____/_____

Initials:_____ Concentration Date:_____/_____

Extraction Date:_ 10/13/2008 12:00:00 AM Initials:_____

Lab Sample ID	Client Sample ID	Test	Weight/ Volume mL	PH	Ver. Sur./Spik	Final Vol. (mL)	Comments
PB37177BL	PB37177BL	SVOCMS Group1	1000	5	RajeshParikh	1	
Z4920-01	RB-1	SVOCMS Group1	980	6	RajeshParikh	1	
Z4923-17	FB	SVOCMS Group1	980	6	RajeshParikh	1	
Z4923-18	FB	SVOCMS Group1	940	5	RajeshParikh	1	
Z4923-19	RB	SVOCMS Group1	920	6	RajeshParikh	1	
Z4932-02	FIELDBLANK	SVOCMS Group1	970	5	RajeshParikh	1	
Z4932-03	RINSATEBLANK	SVOCMS Group1	930	6	RajeshParikh	1	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

CHEMTECH EXTRACTION LOGPAGE

SOP#: M 5OM01.2

Matrix : Solid

Clean Up Method: GPC Cleanup,

Review By:

Batch# PB37182

Extraction Date : 10/13/2008 12:00:00 AM

Extracted By :

Method of Extraction

- [ ] Seperatory Funnel
- [ ] Continious Liquid/Liquid
- [ ] Sonication
- [ ] Waste Dilution
- [x] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Matrix Spike	1.0ML	40 ppm	OEP1879
Surrogate	1.0ML	40 ppm.	OEP1878

10/16/08

Chemical Used	Lot Number
Methylene Chloride	ER1535
Acetone	ER1532
Sodium Sulfate	ER1498
Sand	ER1487

10/16/08

Extraction Conformance/Non-Conformance Comments:

10/20

KD Bath Temperature: 59 C

Received Date: 10/16/08

Delivered Date: 10/16/08

Envap Temperature: 40 C

Received By:

Delivered By: RP

Analysis Group: HM, HP, QM

Extraction Group: BE, BP, DM, DP, DR, DS, IG, JM, JR, MA, MGS, MS, RP, SA

CHEMTECH

— SVOC —

EXTRACTION LOGPAGE

Method: SOM01.2 Supervisor Review: _____ Date: 10/16/08 PREP Batch #: pb37182

Extraction Date: 10/13/2008 Initials: PR/MGS Concentration Date: 10/16/08 Initials: [illegible]

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
Z4923-01MSD		SVOCMS Group1	30.05	7.57	MGS/	0.5	
pb37182BL		SVOCMS Group1	30.01	NA			
Z4923-01MS		SVOCMS Group1	30.03	7.57			
Z4923-01	AOC4-1A [0.0-0.5]	SVOCMS Group1	30.02	7.57			
Z4923-02	AOC4-1B [4.5-5.0]	SVOCMS Group1	30.07	7.68			
Z4923-03	AOC4-2A [0.0-0.5]	SVOCMS Group1	30.04	7.57			
Z4923-04	AOC4-2B [4.5-5.0]	SVOCMS Group1	30.10	7.69			
Z4923-05	AOC4-3A [0.0-0.5]	SVOCMS Group1	30.05	7.66			
Z4923-06	AOC4-3B [4.5-5.0]	SVOCMS Group1	30.03	7.42			
Z4923-07	AOC3-2A [0.0-0.5]	SVOCMS Group1	30.11	7.43			
Z4923-08	AOC3-2B [4.0-4.5]	SVOCMS Group1	30.06	7.30			10/16/08
Z4923-09	AOC3-3A [0.0-0.5]	SVOCMS Group1	30.08	7.60			
Z4923-10	AOC3-3B [4.0-4.5]	SVOCMS Group1	30.05	7.44			
Z4923-11	BACK1A	SVOCMS Group1	30.09	6.73			
Z4923-12	BACK1B	SVOCMS Group1	30.08	6.95			
Z4923-13	BACK2A	SVOCMS Group1	30.11	6.45			
Z4923-14	BACK2B	SVOCMS Group1	30.05	6.63			
Z4923-15	BACK3A	SVOCMS Group1	30.03	6.33			
Z4923-16	BACK3B	SVOCMS Group1	30.06	6.37			

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* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

CHEMTECH EXTRACTION LOGPAGE PrepBatch ID PB37182

Method:_____ Supervisor Review:_____ Date:____/____/____

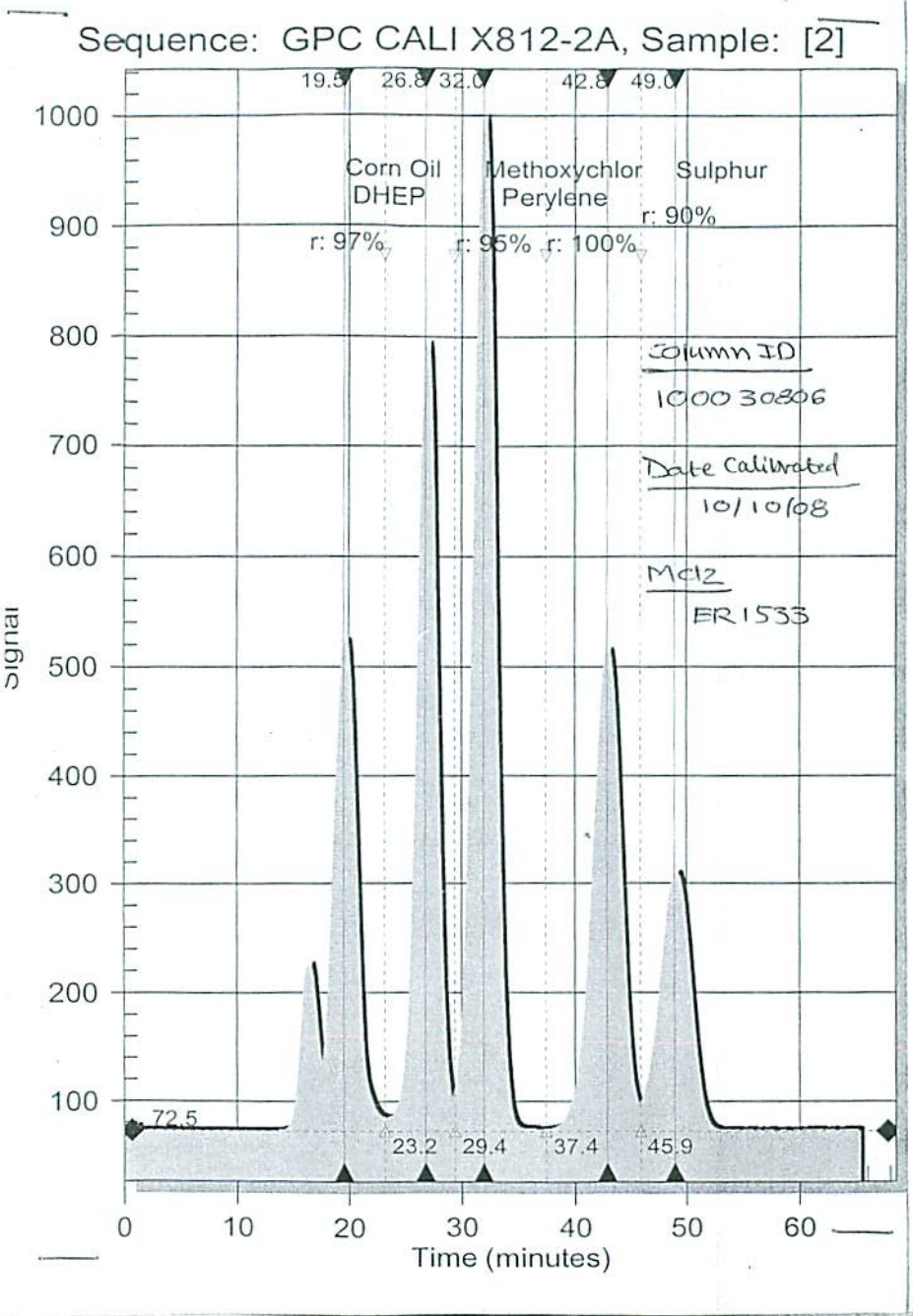
Initials:_____ Concentration Date:____/____/____

Extraction Date:_ 10/13/2008 12:00:00 AM Initials:_____ 10/16/08

Lab Sample ID	Client Sample ID	Test	Weight/ Volume mL	PH	Ver. Sur./Spik	Final Vol. (mL)	Comments
PB37182BL	PB37182BL	SVOCMS Group1	30.01	N/A	Max	0.5	
Z4923-01	AOC4-1A[0.0-0.5]	SVOCMS Group1	30.02	7.57	Max	0.5	
Z4923-01MS	AOC4-1A[0.0-0.5]MS	SVOCMS Group1	30.03	7.57	Max	0.5	
Z4923-01MSD	AOC4-1A[0.0-0.5]MSD	SVOCMS Group1	30.05	7.57	Max	0.5	
Z4923-02	AOC4-1B[4.5-5.0]	SVOCMS Group1	30.07	7.68	Max	0.5	
Z4923-03	AOC4-2A[0.0-0.5]	SVOCMS Group1	30.04	7.57	Max	0.5	
Z4923-04	AOC4-2B[4.5-5.0]	SVOCMS Group1	30.10	7.69	Max	0.5	
Z4923-05	AOC4-3A[0.0-0.5]	SVOCMS Group1	30.05	7.66	Max	0.5	
Z4923-06	AOC4-3B[4.5-5.0]	SVOCMS Group1	30.03	7.42	Max	0.5	
Z4923-07	AOC3-2A[0.0-0.5]	SVOCMS Group1	30.11	7.43	Max	0.5	
Z4923-08	AOC3-2B[4.0-4.5]	SVOCMS Group1	30.06	7.30	Max	0.5	
Z4923-09	AOC3-3A[0.0-0.5]	SVOCMS Group1	30.08	7.60	Max	0.5	
Z4923-10	AOC3-3B[4.0-4.5]	SVOCMS Group1	30.05	7.44	Max	0.5	
Z4923-11	BACK1A	SVOCMS Group1	30.09	6.73	Max	0.5	
Z4923-12	BACK1B	SVOCMS Group1	30.08	6.95	Max	0.5	
Z4923-13	BACK2A	SVOCMS Group1	30.11	6.45	Max	0.5	
Z4923-14	BACK2B	SVOCMS Group1	30.05	6.63	Max	0.5	
Z4923-15	BACK3A	SVOCMS Group1	30.03	6.33	Max	0.5	
Z4923-16	BACK3B	SVOCMS Group1	30.06	6.37	Max	0.5	

10/16/08

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.



CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900 www.chemtech.net

Daily Analysis Runlog

J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/9/08 End Date: 10/14/08 Analyst DP Review By: MC

STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 2ml	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 1ml	Pesticide Check		ER 1533
CALIB. DATE:	10/7/08	PCB Check		MC

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	1	column cleaned					PM.
	2	GPC cal X816-2	–	–	–	–	UV Trace Analysis
	1	column cleaned					PM
	2	column cleaned					↓
	3	Pcb SPK	90	10/10/08		✓	Z4848
	4	Pest blank	↓	↓		✓	↓
	5	Pcb SPK			MC	✓	
	6	Pest blank				✓	
	7	GPC blank	120	↓	✓	MC	↓
	1	Z4923-01	120	10/13/08	✓		Z4923
	2	-02	↓	↓	✓		(SVOC) 10/14/08
	3	-03			✓		↓
	4	-04			✓		
	5	-05			✓		
	6	-06			✓		
	7	-07			✓		
	8	-08			✓		
	9	-09			✓		
	10	-10			✓		
	11	-11	↓	↓	✓	MC	↓

Doc Control # A3040662

Daily Maintenance Runlog For J2 SCIENTIFIC ACCUPREP GPC System

	Analyst Initial	Performed
1.		None
2.		
3		
4		
5		

Daily Analysis Runlog

J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/8/08 End Date: 10/14/08 Analyst DP Review By: [illegible]

STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 ZWM	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 LMI	Pesticide Check		ER 1533
CALIB. DATE:	10/7/08	PCB Check		[illegible]

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	12	24923-12	120	10/13/08	✓		24923
	13	-13			✓		(SVOC) 10/14/08
	14	-14			✓		
	15	-15			✓		
	16	-16			✓		
	17	24923.01 MS			✓		
	18	24923.01 MSD			✓		
	19	PB37182BL			✓	[illegible]	
	1	GPC cleanup	—	—	—	—	—
	2	24920-03	120	10/13/08	✓		24920
	3	-04			✓		(SVOC)
	4	-05			✓		
	5	-06			✓		
	6	-07			✓		
	7	-08			✓		
	8	-09			✓		MS
	9	-10			✓		MSD
	10	-11			✓		
	11	-12			✓		
	12	24920 -13			✓		

Daily Maintenance Runlog For J2 SCIENTIFIC ACCUPREP GPC System

	Analyst Initial	Performed
1.		
2.		
3		
4		
5		10/14/08

Daily Analysis Runlog

J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/8/08 End Date: 10/14/08 Analyst DP Review By:

STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 2ml	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 1ml	Pesticide Check		ER1533
CALIB. DATE:	10/7/08	PCB Check		

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	1	GPC cleanup	—	—	—	—	pm.
	2	24920 -03	90	10/13/08		✓	24920 (PEST)
	3	-04				✓	
	4	-05				✓	
	5	-06				✓	
	6	-07				✓	
	7	-08				✓	
	8	-09				✓	MS
	9	-10				✓	MSD
	10	-11				✓	
	11	-12				✓	
	12	24920 -13				✓	
	13	PB3718013S				✓	
	14	PB3718013L				✓	
	15	GPC cleanup					pm.

10/15/08

Daily Maintenance Runlog For J2 SCIENTIFIC ACCUPREP GPC System

	Analyst Initial	Performed
1.		
2.		
3		
4		
5		

Daily Analysis Runlog

J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/9/08 End Date: 10/14/08 Analyst DP Review By: _____

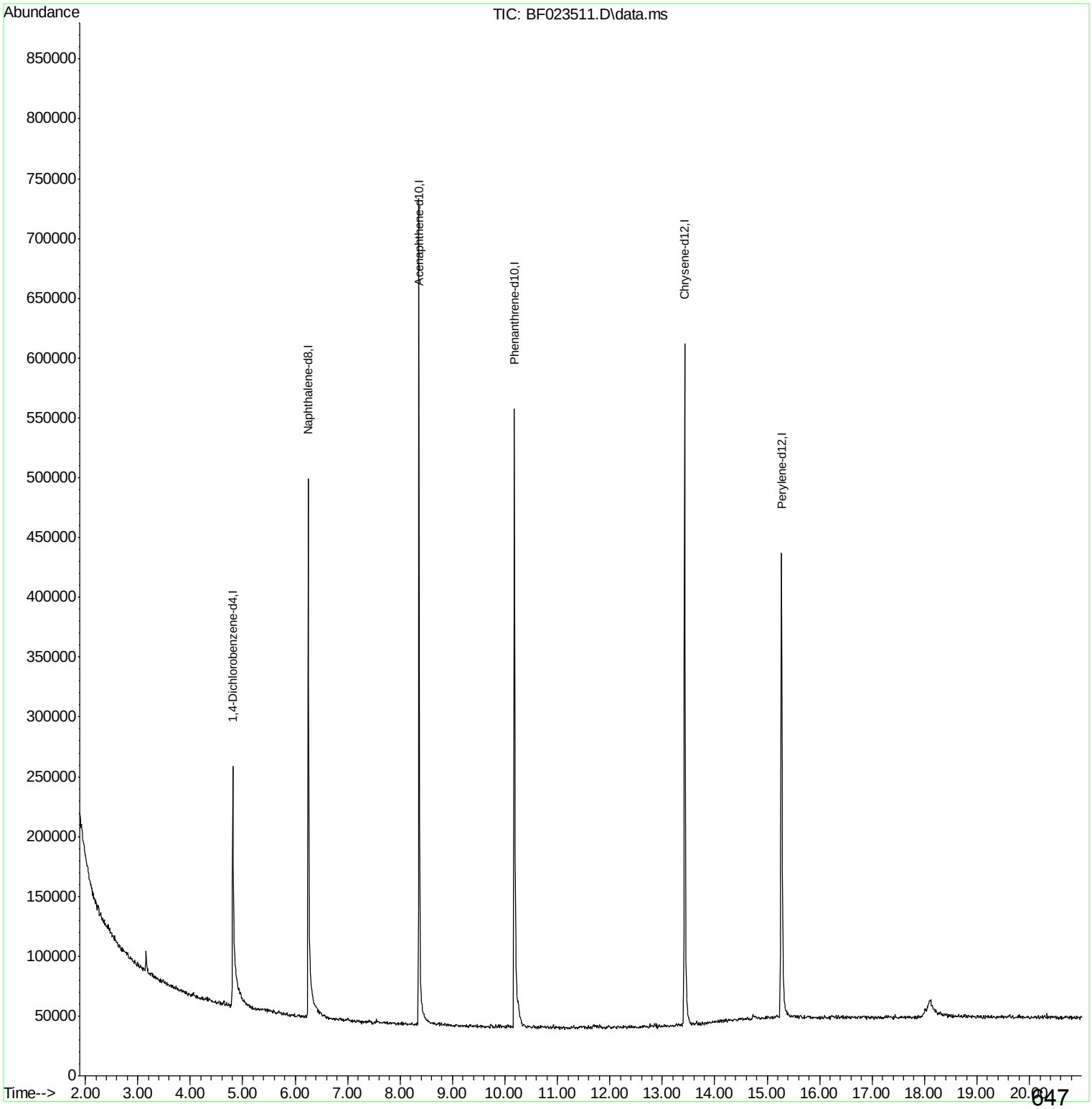
STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 2ml	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 1ml	Pesticide Check		ER1533
CALIB. DATE:	10/7/08	PCB Check		

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	13	24923-01	90	10/13/08		✓	24923 (Pest)
	14	-02				✓	
	15	-03				✓	
	16	-04				✓	
	17	-05				✓	
	18	-06				✓	
	19	-07				✓	
	20	-08				✓	
	21	-09				✓	
	22	-10				✓	
	23	-11				✓	
	24	-12				✓	
	25	-13				✓	
	26	-14				✓	
	27	-15				✓	
	28	24923 -16				✓	
	29	24923-02 MS				✓	
	30	24923-03 MSD				✓	
	31	PB 37181BS				✓	
	32	PB 37181BL				✓	

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\Data\BF101208\
Data File : BF023511.D
Acq On : 12 Oct 2008 17:13
Operator : QM
Sample : Z4848-05
Misc : GPC BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 14:44:41 2008
Quant Method : Z:\HPCHEM1\BNA_F\METHOD\8270-BF100708.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Oct 12 19:37:42 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\Data\BF101208\
Data File : BF023511.D
Acq On : 12 Oct 2008 17:13
Operator : QM
Sample : Z4848-05
Misc : GPC BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 14:44:41 2008
Quant Method : Z:\HPCHEM1\BNA_F\METHOD\8270-BF100708.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Oct 12 19:37:42 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.810	152	71793	20.00	ng	0.00
22) Naphthalene-d8	6.251	136	357335	20.00	ng	0.00
39) Acenaphthene-d10	8.363	164	179262	20.00	ng	0.00
63) Phenanthrene-d10	10.180	188	298893	20.00	ng	0.00
75) Chrysene-d12	13.427	240	289589	20.00	ng	0.00
86) Perylene-d12	15.274	264	258557	20.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.516	112	21	0.00	ng	0.03
6) Phenol-d5	4.434	99	37	0.01	ng	0.00
11) 2-Chlorophenol-d4	4.569	132	12	0.00	ng	0.00
14) 1,2-Dichlorobenzene-d4	0.000	152	0d	0.00	ng	
24) Nitrobenzene-d5	5.440	82	126	0.02	ng	0.00
42) 2,4,6-Tribromophenol	9.345	330	8	0.01	ng	0.00
45) 2-Fluorobiphenyl	7.563	172	129	0.01	ng	0.00
78) Terphenyl-d14	12.174	244	709	0.06	ng	0.01

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
ICC0020BA0048	BA041289.D	Caprolactam	himanshu	10/20/2008 1:31:50 PM	nimisha	10/22/2008 10:13:49 AM	Peak Integrated by Software incorrectly
ICC0020BA0048	BA041289.D	2,4,5-Trichlorophenol	himanshu	10/20/2008 1:31:50 PM	nimisha	10/22/2008 10:13:49 AM	Peak Integrated by Software incorrectly
Z4920-11	BA041314.D	Anthracene	himanshu	10/20/2008 1:32:53 PM	nimisha	10/22/2008 10:15:02 AM	Peak Integrated by Software incorrectly
Z4920-11	BA041314.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:53 PM	nimisha	10/22/2008 10:15:02 AM	Peak Integrated by Software incorrectly
Z4920-11	BA041314.D	Indeno(1,2,3-cd)pyrene	himanshu	10/20/2008 1:32:53 PM	nimisha	10/22/2008 10:15:02 AM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041315.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:57 PM	nimisha	10/22/2008 10:15:07 AM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041315.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:57 PM	nimisha	10/22/2008 10:15:07 AM	Peak Integrated by Software incorrectly
Z4920-09MS	BA041316.D	Chrysene	himanshu	10/20/2008 1:33:00 PM	nimisha	10/22/2008 10:15:11 AM	Peak Integrated by Software incorrectly
Z4920-09MS	BA041316.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:33:00 PM	nimisha	10/22/2008 10:15:11 AM	Peak Integrated by Software incorrectly
Z4920-10MSD	BA041317.D	Anthracene	himanshu	10/20/2008 1:33:02 PM	nimisha	10/22/2008 10:15:17 AM	Peak Integrated by Software incorrectly
Z4920-10MSD	BA041317.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:33:02 PM	nimisha	10/22/2008 10:15:17 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
CCC0020BA0057	BA041319.D	Caprolactam	himanshu	10/20/2008 1:33:05 PM	nimisha	10/22/2008 10:15:22 AM	Peak Integrated by Software incorrectly
ICC0005BA0049	BA041290.D	2,4,5-Trichlorophenol	himanshu	10/20/2008 1:32:00 PM	nimisha	10/22/2008 10:13:54 AM	Peak Integrated by Software incorrectly
ICC0005BA0049	BA041290.D	Di-n-octyl phthalate	himanshu	10/20/2008 1:32:00 PM	nimisha	10/22/2008 10:13:54 AM	Peak Integrated by Software incorrectly
ICC0005BA0049	BA041290.D	Indeno(1,2,3-cd)pyrene	himanshu	10/20/2008 1:32:00 PM	nimisha	10/22/2008 10:13:54 AM	Peak Integrated by Software incorrectly
ICC0010BA0050	BA041291.D	Caprolactam	himanshu	10/20/2008 1:32:05 PM	nimisha	10/22/2008 10:13:58 AM	Peak Integrated by Software incorrectly
ICC0010BA0050	BA041291.D	2,4,5-Trichlorophenol	himanshu	10/20/2008 1:32:05 PM	nimisha	10/22/2008 10:13:58 AM	Peak Integrated by Software incorrectly
ICC0040BA0051	BA041292.D	4-Methylphenol-d8	himanshu	10/20/2008 1:32:08 PM	nimisha	10/22/2008 10:14:01 AM	Peak Integrated by Software incorrectly
ICC0040BA0051	BA041292.D	Caprolactam	himanshu	10/20/2008 1:32:08 PM	nimisha	10/22/2008 10:14:01 AM	Peak Integrated by Software incorrectly
ICC0080BA0052	BA041293.D	N-Nitroso-di-n-propylamine	himanshu	10/20/2008 1:32:11 PM	nimisha	10/22/2008 10:14:05 AM	Peak Integrated by Software incorrectly
ICC0080BA0052	BA041293.D	Caprolactam	himanshu	10/20/2008 1:32:11 PM	nimisha	10/22/2008 10:14:05 AM	Peak Integrated by Software incorrectly
ICC0080BA0052	BA041293.D	4-Nitroaniline	himanshu	10/20/2008 1:32:11 PM	nimisha	10/22/2008 10:14:05 AM	Peak Integrated by Software incorrectly
Z4920-01	BA041295.D	Anthracene-d10	himanshu	10/20/2008 1:32:16 PM	nimisha	10/22/2008 10:14:09 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-17	BA041296.D	Anthracene-d10	himanshu	10/20/2008 1:32:19 PM	nimisha	10/22/2008 10:14:14 AM	Peak Integrated by Software incorrectly
Z4923-19	BA041298.D	Anthracene-d10	himanshu	10/20/2008 1:32:23 PM	nimisha	10/22/2008 10:15:32 AM	Peak Integrated by Software incorrectly
CCC0020BA0053	BA041302.D	Caprolactam	himanshu	10/20/2008 1:32:26 PM	nimisha	10/22/2008 10:14:19 AM	Peak Integrated by Software incorrectly
CCC0020BA0053	BA041302.D	Anthracene-d10	himanshu	10/20/2008 1:32:26 PM	nimisha	10/22/2008 10:14:19 AM	Peak Integrated by Software incorrectly
CCC0020BA0053	BA041302.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:26 PM	nimisha	10/22/2008 10:14:19 AM	Peak Integrated by Software incorrectly
CCC0020BA0055	BA041305.D	Caprolactam	himanshu	10/20/2008 1:33:14 PM	nimisha	10/22/2008 10:14:24 AM	Peak Integrated by Software incorrectly
Z4920-05	BA041308.D	Benzo(a) anthracene	himanshu	10/20/2008 1:32:31 PM	nimisha	10/22/2008 10:14:30 AM	Peak Integrated by Software incorrectly
Z4920-05	BA041308.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:31 PM	nimisha	10/22/2008 10:14:30 AM	Peak Integrated by Software incorrectly
Z4920-07	BA041309.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:35 PM	nimisha	10/22/2008 10:14:35 AM	Peak Integrated by Software incorrectly
Z4920-07	BA041309.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:35 PM	nimisha	10/22/2008 10:14:35 AM	Peak Integrated by Software incorrectly
Z4920-12	BA041310.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly
Z4920-12	BA041310.D	Anthracene-d10	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4920-12	BA041310.D	Chrysene	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly
Z4920-12	BA041310.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly
Z4920-03	BA041311.D	Anthracene	himanshu	10/20/2008 1:32:41 PM	nimisha	10/22/2008 10:14:48 AM	Peak Integrated by Software incorrectly
Z4920-03	BA041311.D	Benzo(a) anthracene	himanshu	10/20/2008 1:32:41 PM	nimisha	10/22/2008 10:14:48 AM	Peak Integrated by Software incorrectly
Z4920-03	BA041311.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:41 PM	nimisha	10/22/2008 10:14:48 AM	Peak Integrated by Software incorrectly
Z4920-08	BA041312.D	Chrysene	himanshu	10/20/2008 1:32:45 PM	nimisha	10/22/2008 10:14:53 AM	Peak Integrated by Software incorrectly
Z4920-08	BA041312.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:45 PM	nimisha	10/22/2008 10:14:53 AM	Peak Integrated by Software incorrectly
Z4920-08	BA041312.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:45 PM	nimisha	10/22/2008 10:14:53 AM	Peak Integrated by Software incorrectly
Z4920-04	BA041313.D	Anthracene	himanshu	10/20/2008 1:32:49 PM	nimisha	10/22/2008 10:14:58 AM	Peak Integrated by Software incorrectly
Z4920-04	BA041313.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:49 PM	nimisha	10/22/2008 10:14:58 AM	Peak Integrated by Software incorrectly
Z4920-04	BA041313.D	Anthracene-d10	himanshu	10/20/2008 1:32:49 PM	nimisha	10/22/2008 10:14:58 AM	Peak Integrated by Software incorrectly

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	DFTPPBA0013	BA041288.D	19 Oct 2008 13:20	QM	Ok
2	ICC0020BA0048	BA041289.D	19 Oct 2008 14:01	QM	Ok,M
3	ICC0005BA0049	BA041290.D	19 Oct 2008 15:12	QM	Ok,M
4	ICC0010BA0050	BA041291.D	19 Oct 2008 15:53	QM	Ok,M
5	ICC0040BA0051	BA041292.D	19 Oct 2008 16:35	QM	Ok,M
6	ICC0080BA0052	BA041293.D	19 Oct 2008 17:16	QM	Ok,M
7	PB37177B	BA041294.D	19 Oct 2008 17:57	QM	ReRun
8	Z4920-01	BA041295.D	19 Oct 2008 18:39	QM	Ok,M
9	Z4923-17	BA041296.D	19 Oct 2008 19:20	QM	Ok,M
10	Z4923-18	BA041297.D	19 Oct 2008 20:02	QM	Ok
11	Z4923-19	BA041298.D	19 Oct 2008 20:43	QM	Ok,M
12	Z4932-02	BA041299.D	19 Oct 2008 21:24	QM	Ok
13	Z4932-03	BA041300.D	19 Oct 2008 22:05	QM	Ok
14	PB37177B	BA041301.D	19 Oct 2008 22:46	QM	Confirms
15	CCC0020BA0053	BA041302.D	19 Oct 2008 23:28	QM	Ok,M
16	CCC0020BA0054	BA041303.D	20 Oct 2008 00:09	QM	Ok
17	DFTPPBA0014	BA041304.D	20 Oct 2008 00:51	QM	Ok
18	CCC0020BA0055	BA041305.D	20 Oct 2008 1:32	QM	Ok,M
19	PB37183B	BA041306.D	20 Oct 2008 2:13	QM	ReRun
20	Z4920-13	BA041307.D	20 Oct 2008 2:55	QM	Ok
21	Z4920-05	BA041308.D	20 Oct 2008 3:36	QM	Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	Z4920-07	BA041309.D	20 Oct 2008 4:17	QM	Ok,M
23	Z4920-12	BA041310.D	20 Oct 2008 4:58	QM	Ok,M
24	Z4920-03	BA041311.D	20 Oct 2008 5:39	QM	Ok,M
25	Z4920-08	BA041312.D	20 Oct 2008 6:20	QM	Ok,M
26	Z4920-04	BA041313.D	20 Oct 2008 7:01	QM	Ok,M
27	Z4920-11	BA041314.D	20 Oct 2008 7:41	QM	Ok,M
28	Z4920-06 5X	BA041315.D	20 Oct 2008 8:22	QM	ReRun
29	Z4920-09MS	BA041316.D	20 Oct 2008 9:03	QM	Ok,M
30	Z4920-10MSD	BA041317.D	20 Oct 2008 9:44	QM	Ok,M
31	CCC0020BA0056	BA041318.D	20 Oct 2008 10:26	QM	Not Ok
32	CCC0020BA0057	BA041319.D	20 Oct 2008 11:07	QM	Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	DFTPPBA0013	BA041288.D		Ok
2	ICC0020BA0048	BA041289.D		Ok,M
3	ICC0005BA0049	BA041290.D		Ok,M
4	ICC0010BA0050	BA041291.D		Ok,M
5	ICC0040BA0051	BA041292.D		Ok,M
6	ICC0080BA0052	BA041293.D		Ok,M
7	PB37177B	BA041294.D		ReRun
8	Z4920-01	BA041295.D		Ok,M
9	Z4923-17	BA041296.D		Ok,M
10	Z4923-18	BA041297.D		Ok
11	Z4923-19	BA041298.D		Ok,M
12	Z4932-02	BA041299.D		Ok
13	Z4932-03	BA041300.D		Ok
14	PB37177B	BA041301.D		Confirms
15	CCC0020BA0053	BA041302.D		Ok,M
16	CCC0020BA0054	BA041303.D	ZZZZZ	Ok
17	DFTPPBA0014	BA041304.D		Ok
18	CCC0020BA0055	BA041305.D		Ok,M
19	PB37183B	BA041306.D		ReRun
20	Z4920-13	BA041307.D		Ok
21	Z4920-05	BA041308.D		Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	Z4920-07	BA041309.D		Ok,M
23	Z4920-12	BA041310.D		Ok,M
24	Z4920-03	BA041311.D		Ok,M
25	Z4920-08	BA041312.D		Ok,M
26	Z4920-04	BA041313.D		Ok,M
27	Z4920-11	BA041314.D		Ok,M
28	Z4920-06 5X	BA041315.D		ReRun
29	Z4920-09MS	BA041316.D		Ok,M
30	Z4920-10MSD	BA041317.D		Ok,M
31	CCC0020BA0056	BA041318.D		Not Ok
32	CCC0020BA0057	BA041319.D	Compound#48 %Dev=51.2	Ok,M

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Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-10	BA041346.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-10	BA041346.D	Anthracene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-10	BA041346.D	Benzo(a) anthracene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-10	BA041346.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-01	BA041347.D	Anthracene-d10	yogesh patel	10/21/2008 8:54:34 AM	nimisha	10/21/2008 4:19:12 PM	Peak Integrated by Software incorrectly
Z4923-01	BA041347.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 8:54:34 AM	nimisha	10/21/2008 4:19:12 PM	Peak Integrated by Software incorrectly
Z4923-01	BA041347.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 8:54:34 AM	nimisha	10/21/2008 4:19:12 PM	Peak Integrated by Software incorrectly
Z4923-09	BA041348.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:03 PM	nimisha	10/21/2008 4:19:16 PM	Peak Integrated by Software incorrectly
Z4923-05	BA041349.D	Chrysene	himanshu	10/21/2008 1:13:06 PM	nimisha	10/21/2008 4:19:21 PM	Peak Integrated by Software incorrectly
Z4923-05	BA041349.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:06 PM	nimisha	10/21/2008 4:19:21 PM	Peak Integrated by Software incorrectly
Z4923-01MS	BA041350.D	Chrysene	himanshu	10/21/2008 1:13:09 PM	nimisha	10/21/2008 4:19:25 PM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-01MS	BA041350.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:09 PM	nimisha	10/21/2008 4:19:25 PM	Peak Integrated by Software incorrectly
Z4923-01MSD	BA041351.D	Benzo(a) anthracene	himanshu	10/21/2008 1:13:12 PM	nimisha	10/21/2008 4:19:30 PM	Peak Integrated by Software incorrectly
Z4923-01MSD	BA041351.D	Benzo(b) fluoranthene	himanshu	10/21/2008 1:13:12 PM	nimisha	10/21/2008 4:19:30 PM	Peak Integrated by Software incorrectly
Z4923-01MSD	BA041351.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:12 PM	nimisha	10/21/2008 4:19:30 PM	Peak Integrated by Software incorrectly
CCC0020BA0058	BA041323.D	Caprolactam	yogesh patel	10/21/2008 7:25:16 AM	nimisha	10/21/2008 4:16:54 PM	Peak Integrated by Software incorrectly
CCC0020BA0058	BA041323.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:16 AM	nimisha	10/21/2008 4:16:54 PM	Peak Integrated by Software incorrectly
PB37182B	BA041324.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:19 AM	nimisha	10/21/2008 4:17:21 PM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041326.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 7:25:22 AM	nimisha	10/21/2008 4:17:25 PM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041326.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 7:25:22 AM	nimisha	10/21/2008 4:17:25 PM	Peak Integrated by Software incorrectly
Z4973-05	BA041334.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:25 AM	nimisha	10/21/2008 4:18:02 PM	Peak Integrated by Software incorrectly
CCC0020BA0059	BA041337.D	Caprolactam	yogesh patel	10/21/2008 7:25:27 AM	nimisha	10/21/2008 4:18:07 PM	Peak Integrated by Software incorrectly
CCC0020BA0059	BA041337.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:27 AM	nimisha	10/21/2008 4:18:07 PM	Peak Integrated by Software incorrectly

CHEMTECH

Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
CCC0020BA0060	BA041338.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0060	BA041338.D	Caprolactam	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0060	BA041338.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0060	BA041338.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0061	BA041340.D	Caprolactam	yogesh patel	10/21/2008 7:25:30 AM	nimisha	10/21/2008 4:18:23 PM	Peak Integrated by Software incorrectly
CCC0020BA0061	BA041340.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:30 AM	nimisha	10/21/2008 4:18:23 PM	Peak Integrated by Software incorrectly
CCC0020BA0061	BA041340.D	Dibenzo (a,h) anthracene	yogesh patel	10/21/2008 7:25:30 AM	nimisha	10/21/2008 4:18:23 PM	Peak Integrated by Software incorrectly
Z4923-06	BA041341.D	Benzo(a) anthracene	yogesh patel	10/21/2008 7:25:45 AM	nimisha	10/21/2008 4:18:43 PM	Peak Integrated by Software incorrectly
Z4923-02	BA041342.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:43 AM	nimisha	10/21/2008 4:18:48 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Dibenzo (a,h) anthracene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly

CHEMTECH

Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-11	BA041344.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Anthracene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzo(a) anthracene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzaldehyde	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Phenanthrene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Anthracene-d10	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	DFTPPBA0015	BA041320.D	20 Oct 2008 13:24	HNP	Not Ok

2	DFTPPBA0016	BA041321.D	20 Oct 2008 14:03	HNP	Not Ok
3	DFTPPBA0017	BA041322.D	20 Oct 2008 14:37	HNP	Ok
4	CCC0020BA0058	BA041323.D	20 Oct 2008 15:18	HNP	Ok,M
5	PB37182B	BA041324.D	20 Oct 2008 16:00	HNP	ReRun
6	PB37183BRE	BA041325.D	20 Oct 2008 16:42	HNP	Confirms
7	Z4920-06 5X	BA041326.D	20 Oct 2008 17:23	HNP	Ok,M
8	Z4923-04	BA041327.D	20 Oct 2008 18:04	HNP	Ok
9	Z4923-07	BA041328.D	20 Oct 2008 18:46	HNP	Ok
10	Z4923-08	BA041329.D	20 Oct 2008 19:28	HNP	Ok
11	Z4923-12	BA041330.D	20 Oct 2008 20:09	HNP	Ok
12	Z4923-14	BA041331.D	20 Oct 2008 20:51	HNP	Ok
13	Z4923-15	BA041332.D	20 Oct 2008 21:33	HNP	Ok
14	Z4923-16	BA041333.D	20 Oct 2008 22:14	HNP	Ok
15	Z4973-05	BA041334.D	20 Oct 2008 22:56	HNP	Ok,M
16	CLEAN UP	BA041335.D	20 Oct 2008 23:37	HNP	Ok
17	CLEAN UP	BA041336.D	21 Oct 2008 00:19	HNP	Ok
18	CCC0020BA0059	BA041337.D	21 Oct 2008 1:01	HNP	Ok,M
19	CCC0020BA0060	BA041338.D	21 Oct 2008 1:42	HNP	Ok,M
20	DFTPPBA0016	BA041339.D	21 Oct 2008 2:23	HNP	Ok
21	CCC0020BA0061	BA041340.D	21 Oct 2008 3:04	HNP	Ok,M

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	Z4923-06	BA041341.D	21 Oct 2008 3:46	HNP	Ok,M
23	Z4923-02	BA041342.D	21 Oct 2008 4:27	HNP	Ok,M
24	Z4923-03	BA041343.D	21 Oct 2008 5:09	HNP	Ok
25	Z4923-11	BA041344.D	21 Oct 2008 5:50	HNP	Ok,M
26	Z4923-13	BA041345.D	21 Oct 2008 6:31	HNP	Ok,M
27	Z4923-10	BA041346.D	21 Oct 2008 7:12	HNP	Ok,M
28	Z4923-01	BA041347.D	21 Oct 2008 7:53	HNP	Ok,M
29	Z4923-09	BA041348.D	21 Oct 2008 8:35	HNP	Ok,M
30	Z4923-05	BA041349.D	21 Oct 2008 9:16	HNP	Ok,M
31	Z4923-01MS	BA041350.D	21 Oct 2008 9:58	HNP	Ok,M
32	Z4923-01MSD	BA041351.D	21 Oct 2008 10:39	HNP	Ok,M
33	CLEAN UP	BA041352.D	21 Oct 2008 11:20	HNP	Ok
34	CLEAN UP	BA041353.D	21 Oct 2008 12:01	HNP	Ok
35	CCC0020BA0062	BA041354.D	21 Oct 2008 12:43	HNP	Ok

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	DFTPPBA0015	BA041320.D		Not Ok
2	DFTPPBA0016	BA041321.D		Not Ok
3	DFTPPBA0017	BA041322.D		Ok
4	CCC0020BA0058	BA041323.D	Compound#58 %Dev=-44.9	Ok,M
5	PB37182B	BA041324.D	Surrogate #74 fail	ReRun
6	PB37183BRE	BA041325.D	Surrogate #74 fail	Confirms
7	Z4920-06 5X	BA041326.D	Surrogate #11,44,55,74 fail	Ok,M
8	Z4923-04	BA041327.D	Surrogate #74 fail	Ok
9	Z4923-07	BA041328.D		Ok
10	Z4923-08	BA041329.D	Surrogate #74 fail	Ok
11	Z4923-12	BA041330.D		Ok
12	Z4923-14	BA041331.D		Ok
13	Z4923-15	BA041332.D		Ok
14	Z4923-16	BA041333.D		Ok
15	Z4973-05	BA041334.D		Ok,M
16	CLEAN UP	BA041335.D		Ok
17	CLEAN UP	BA041336.D		Ok
18	CCC0020BA0059	BA041337.D		Ok,M
19	CCC0020BA0060	BA041338.D	ZZZZZ	Ok,M
20	DFTPPBA0016	BA041339.D		Ok
21	CCC0020BA0061	BA041340.D	%dev of Compound#2 is -43.7	Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	Z4923-06	BA041341.D		Ok,M
23	Z4923-02	BA041342.D	Surrogate #74 fail	Ok,M
24	Z4923-03	BA041343.D		Ok
25	Z4923-11	BA041344.D		Ok,M
26	Z4923-13	BA041345.D	Surrogate #5,7,11,44,74 fail	Ok,M
27	Z4923-10	BA041346.D	Surrogate #5,74 fail	Ok,M
28	Z4923-01	BA041347.D		Ok,M
29	Z4923-09	BA041348.D		Ok,M
30	Z4923-05	BA041349.D		Ok,M
31	Z4923-01MS	BA041350.D		Ok,M
32	Z4923-01MSD	BA041351.D		Ok,M
33	CLEAN UP	BA041352.D	ZZZZZ	Ok
34	CLEAN UP	BA041353.D	ZZZZZ	Ok
35	CCC0020BA0062	BA041354.D		Ok

CHEMTECH

QC: LB410833

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 10/11/08

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
Z4914-21	C8(0-1.35)	69	1.15	8.72	6.59	71.9
Z4914-22	C8(0-1.35)	70	1.14	8.5	5.19	55.1
Z4914-23	C8(1.35-2.7)	71	1.15	8.84	6.39	68.2
Z4914-24	C8(1.35-2.7)	72	1.12	8.71	5.56	58.5
Z4920-03	AOC2-1	73	1.13	8.9	6.73	72.1
Z4920-04	AOC2-2	74	1.14	8.5	7.36	84.6
Z4920-05	AOC2-3	75	1.11	8.95	7.43	80.7
Z4920-06	AOC5-1	76	1.11	8.76	7.86	88.3
Z4920-07	AOC5-2	77	1.12	8.92	7.33	79.7
Z4920-08	AOC5-3	78	1.11	8.8	7.12	78.2
Z4920-09	Z4920-08MS	79	NR	NR	NR	NR
Z4920-10	Z4920-08MSD	80	NR	NR	NR	NR
Z4920-11	DUP	81	1.13	8.85	7.89	87.6
Z4920-12	AOC3-1A	82	1.14	8.8	6.09	64.7
Z4920-13	AOC3-1B	83	1.13	8.99	7.6	82.4
Z4923-01	AOC4-1A[0.0-0.5]	84	1.13	8.77	8.02	90.2
Z4923-02	AOC4-1B[4.5-5.0]	85	1.13	8.55	6.9	77.8
Z4923-03	AOC4-2A[0.0-0.5]	86	1.14	8.66	7.54	85.2
Z4923-04	AOC4-2B[4.5-5.0]	87	1.12	8.35	7.52	88.6
Z4923-05	AOC4-3A[0.0-0.5]	88	1.13	8.51	7.36	84.5
Z4923-06	AOC4-3B[4.5-5.0]	89	1.15	8.98	7.97	87.2
Z4923-07	AOC3-2A[0.0-0.5]	90	1.14	8.92	7.26	78.7
Z4923-08	AOC3-2B[4.0-4.5]	91	1.14	8.8	7.67	85.3
Z4923-09	AOC3-3A[0.0-0.5]	92	1.15	8.81	7.91	88.3
Z4923-10	AOC3-3B[4.0-4.5]	93	1.14	8.83	7.65	84.7
Z4923-11	BACK1A	94	1.14	8.52	7.19	82.0
Z4923-12	BACK1B	95	1.13	8.68	7.68	86.8
Z4923-13	BACK2A	96	1.13	8.85	7.27	79.6
Z4923-14	BACK2B	97	1.14	8.84	7.75	85.9
Z4923-15	BACK3A	98	1.13	8.99	7.63	82.7
Z4923-16	BACK3B	99	1.12	9.04	7.99	86.8
Z4901-12D	C20Q1S1CD	16D	1.12	8.75	7.91	89.0
Z4910-13D	B11(5.4-6.75)D	35D	1.13	8.73	7.78	87.5
Z4914-10D	C10(0-1.35)D	58D	1.13	8.85	8.45	94.9

OVEN TEMP: 106°C
TIME IN: 10/10/08 6:30PM [illegible]
TIME OUT: 10/11/08 10:00AM [illegible]

CHEMTECH

QC: LB40833

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 10/11/08

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
Z4920-08D	AOC5-3D	78D	1.11	8.83	7.22	79.2
Z4923-14D	BACK2BD	97D	1.14	8.87	7.85	86.9
BLANK	DISH	B1	1.13	1.13	1.13	0.0
BLANK	DISH	B2	1.14	1.14	1.14	0.0
BLANK	DISH	B3	1.12	1.12	1.12	0.0
BLANK	DISH	B4	1.13	1.13	1.13	0.0
BLANK	DISH	B5	1.15	1.15	1.15	0.0

OVEN TEMP: 106 C
TIME IN: 10/10/08 6:30PM
TIME OUT: 10/11/08 10:00AM

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

SHIPPING AND RECEIVING DOCUMENTATION

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Z 4923
QUOTE NO.
COC Number 075706

668

CLIENT INFORMATION (REPORT TO BE SENT TO:)
COMPANY: Dewberry
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Corey Nachshen
PHONE: 973-739-9400 FAX: 973-428-5509

CLIENT PROJECT INFORMATION
PROJECT NAME: FCI Danbury
PROJECT NO.: 50013147 LOCATION: Danbury CT
PROJECT MANAGER: Corey Nachshen
e-mail: cnachshen@dewberry
PHONE: 973-739-9400 FAX: 973-428-8509

CLIENT BILLING INFORMATION
BILL TO: Dewberry PO#: 50013147
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Corey Nachshen PHONE: SAME

DATA TURNAROUND INFORMATION
FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
☐ RESULTS ONLY ☑ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD FORMAT

ANALYSIS
1 TCL Volatile Soil 2
2 TCL Semi-Volatile Soil 2
3 TCL Pest Soil 2
4 PCBs Soil 2
5 TAL Metals Soil 4
6 Cyanide Total Soil 4
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	AOC 4-1A 0.0-0.5	SL		X	10-8-08	0900	2	X	X	X	X	X	X				
2.	AOC4-1B 4.5-5.0	"		X	"	09:15	2	X	X	X	X	X	X				
3.	AOC 4-2A 0.0-0.5	"		X	"	0930	2	X	X	X	X	X	X				
4.	AOC 4-2B 4.5-5.0	"		X	"	0935	2	X	X	X	X	X	X				
5.	AOC4.3A 0.0-0.5	"		X	"	0950	2	X	X	X	X	X	X				
6.	AOC 4.3B 4.5-5.0	"		X	"	09:59	2	X	X	X	X	X	X				
7.	AOC 3-2A 0.0-0.5	"		X	"	11:00	2	X	X	X	X	X	X				
8.	AOC3.2B 4.0-4.5	"		X	"	11:05	2	X	X	X	X	X	X				
9.	AOC3.3A 0.0-0.5	"		X	"	1130	2	X	X	X	X	X	X				
10.	AOC3.3B 4.0-4.5	SL		X	10-8-08	1135	2	X	X	X	X	X	X				

PRESERVATIVES — ← Specify Preservatives: A-HCl B-HNO_3 C-H_2SO_4 D-NaOH E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Samuel Collins	10/8/08 1600	1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. FED EX	DATE/TIME: 10/9/08 930	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Cooler Temp. 4°C
Ice in Cooler?: Y/N

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☑ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. Z4923
COC Number 075707

CLIENT INFORMATION (REPORT TO BE SENT TO:)
COMPANY: Langley
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Cory Nadolski
PHONE: 973-739-9400 FAX: 973-428-8509

CLIENT PROJECT INFORMATION
PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail: SAME
PHONE: FAX:

CLIENT BILLING INFORMATION
BILL TO: PO#:
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION
FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
☐ RESULTS ONLY ☑ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD FORMAT

ANALYSIS
1 Tot VOC 410 Soil 1.2
2 Tot SVOC 410 Soil 1.2
3 Tot PCBS Soil 1.2
4 PCBS Soil 1.2
5 Tot Metals SW6010C
6 Cyanide SW9010C

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BACK-1A	SL		X	10-8-08	1240	2	X	X	X	X	X	X	X			
2.	BACK 1B	"		X	"	1250	2	X	X	X	X	X	X				
3.	BACK 2A	"		X	"	1300	2	X	X	X	X	X	X				
4.	BACK 2B	"		X	"	1310	2	X	X	X	X	X	X				
5.	BACK 3A	"		X	"	1315	2	X	X	X	X	X	X				
6.	BACK 3B	"		X	"	1320	2	X	X	X	X	X	X				
7.	~~AOC 4.1A FB~~	AQ		X	"	0900	7	X	X	X	X	X	X				
8.	~~AOC 4.1B FB~~	AQ		X	"	1000	7	X	X	X	X	X	X				
9.	~~AOC 4.2A RB~~	AQ		X	"	1500	7	X	X	X	X	X	X				
10.	~~AOC 4.2B~~ TRIP BLANK	AQ			10-8-08		2	X									

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	10/8/08 1600	1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. FED EX	DATE/TIME: 10/9/08 930	RECEIVED FOR LAB BY: 3. [signature]

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Cooler Temp. 4°C
Ice in Cooler?: YES

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☑ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Origin ID: CBZA (973)739-9400
Kathleen Buchholtz
Dewberry
600 Parsippany Rd Ste 301

Parsippany, NJ 07054

FedEx Express

CLS050108/21/24

Ship Date: 06OCT08
ActWgt: 20 LB
CAD: 8717900/INET8091
Account#: S *********

Delivery Address Bar Code

Ref # 50013147 E001ODCS
Invoice #
PO #
Dept # 2235 6085

SHIP TO: 9087898922 BILL SENDER

Sample Receiving
Chemtech
284 SHEFFIELD ST

MOUNTAINSIDE, NJ 070922319

TRK# 0201 7911 5296 5793

TUE - 07OCT **A1**
PRIORITY OVERNIGHT

07092
NJ-US
EWR

ZC KBCA

Rec by [illegible]
10/9/08
9:30 Am

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex com FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss. damage. delay, non-delivery.misdelivery.or misinformation, unless you declare a higher value, pay an additional charge. document your actual loss and file a timely claim Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss. including intrinsic valueof the package, loss of sales, income interest. profit. attorney's fees. costs. and other forms of damage whether direct, incidental.consequential, or special is limited to the greater of $100 or the authorized declared value Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e g jewelry. precious metals, negotiable instruments and other items listed in our ServiceGuide Written claims must be filed within strict time limits, see current FedEx Service Guide

From: Origin ID: CBZA (973)739-9400
Kathleen Buchholtz
Dewberry
600 Parsippany Rd Ste 301

Parsippany, NJ 07054

FedEx Express

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Ship Date: 06OCT08
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Dept # 2235 6085

SHIP TO: 9087898922 BILL SENDER

Sample Receiving
Chemtech
284 SHEFFIELD ST

MOUNTAINSIDE, NJ 070922319

TUE - 07OCT **A1**

TRK# 0201 7980 2751 0915 **PRIORITY OVERNIGHT**

07092
NJ-US
EWR

ZC KBCA

Recby OUalg
10/9/08 930

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Kathleen Buchholtz
Dewberry
600 Parsippany Rd Ste 301

Parsippany, NJ 07054

FedEx Express

CLS080108/21/24

Ship Date: 02OCT08
ActWgt: 20 LB
CAD: 8717900/INET8091
Account#: S *********

Delivery Address Bar Code

Ref # 50013147 E001ODCS
Invoice #
PO #
Dept # 2235 6085

SHIP TO: 9087898922 **BILL SENDER**

Sample Receiving
Chemtech
284 SHEFFIELD ST

MOUNTAINSIDE, NJ 070922319

FRI - 03OCT **A1**

TRK# 0201 7905 9258 5564 **PRIORITY OVERNIGHT**

07092
NJ-US
EWR

ZC KBCA

Recby J Vaidy 930
10/9/08 ~~1030~~

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CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

LABORATORY CERTIFICATION

STATE	License No.
New Jersey	20012
New York	11376
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Rhode Island	LAO00259
Connecticut	PH-0649
Maine	NJ0503
Pennsylvania	68-548

CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

END OF ANALYTICAL RESULTS