

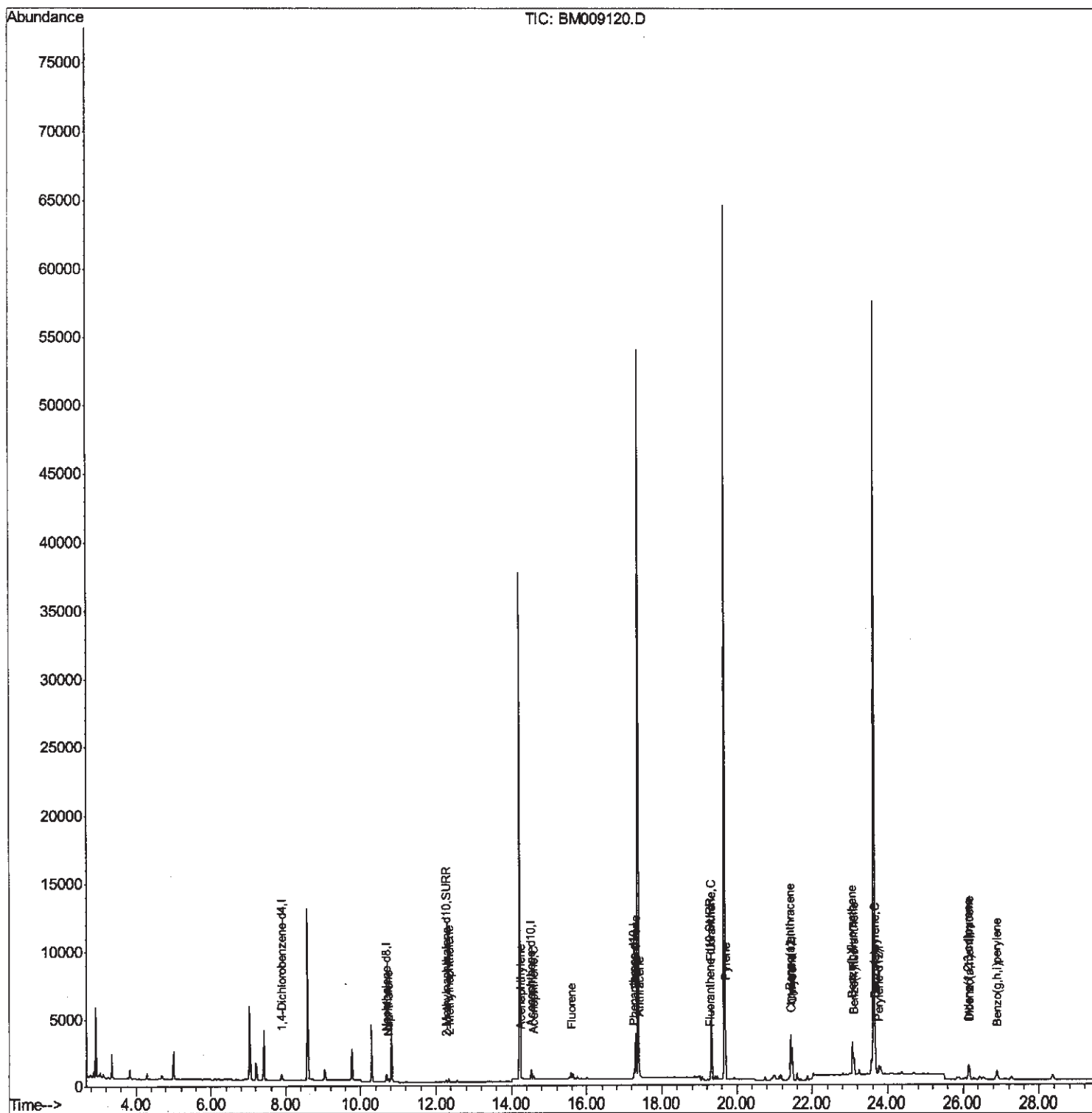
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:41:33 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



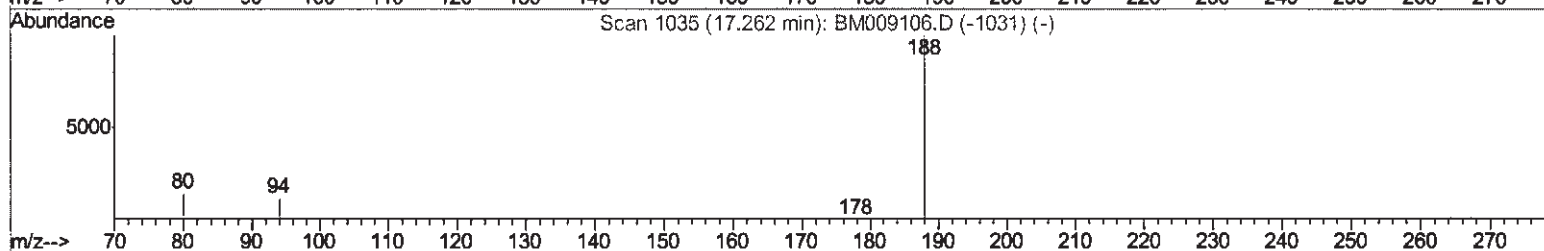
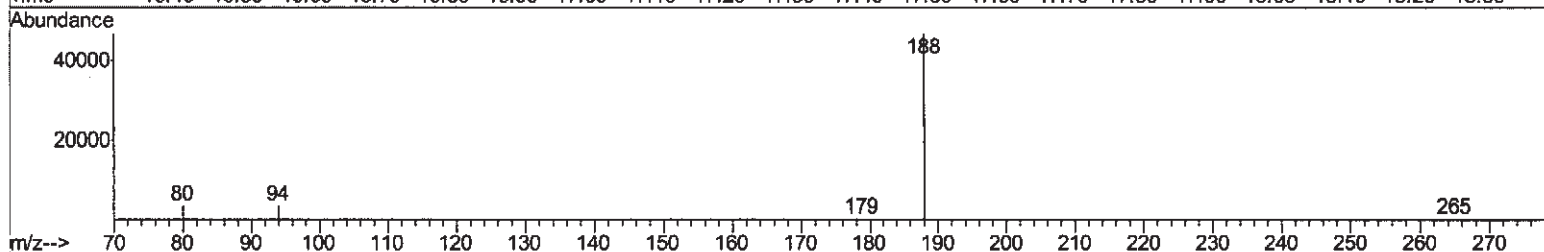
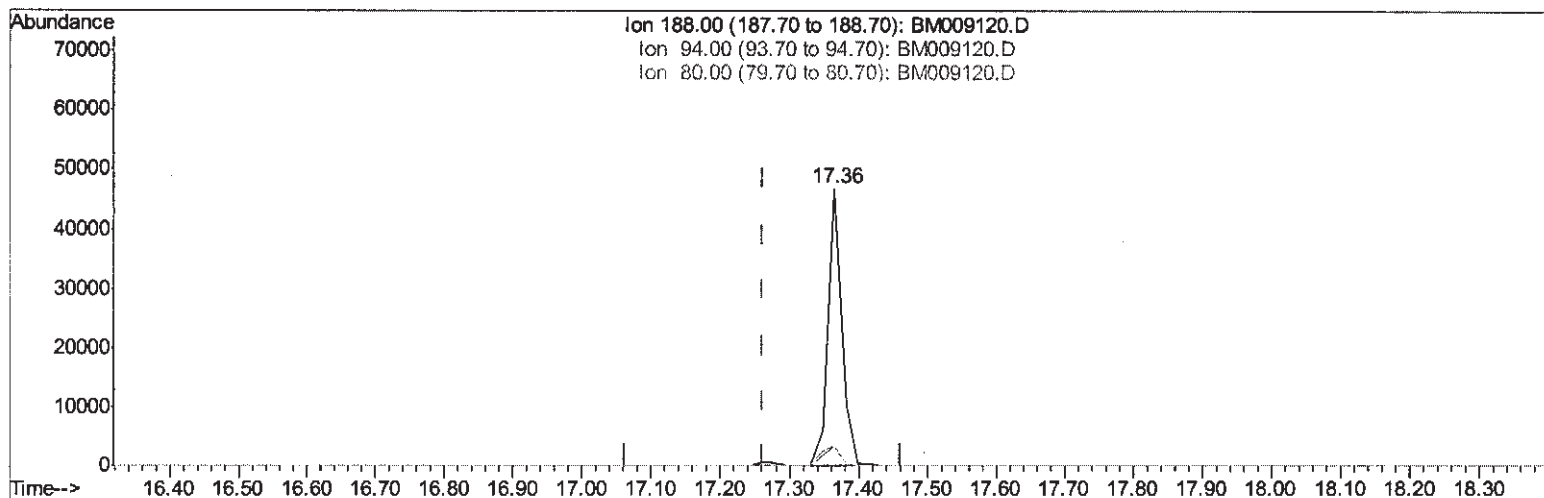
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:32 PM

Quant Time: Mar 09 01:20:51 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

(10) Phenanthrene-d10 (I)

17.365min (+0.103) 0.40ng/ul

response 65009

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	7.37#
80.00	11.80	7.39#
0.00	0.00	0.00

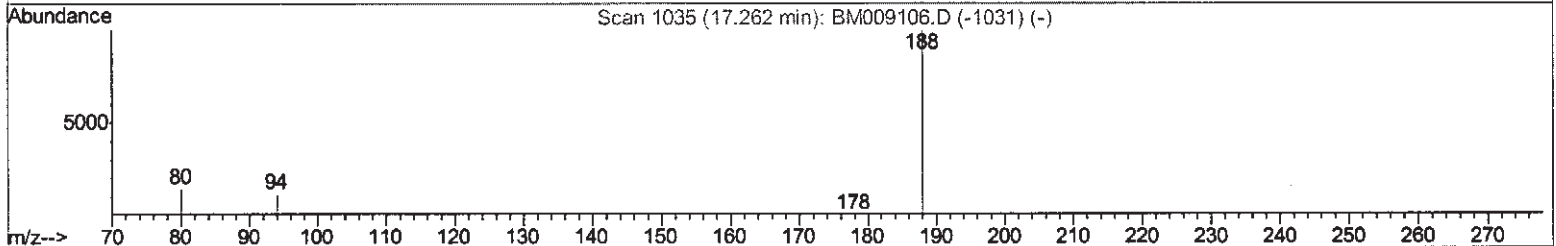
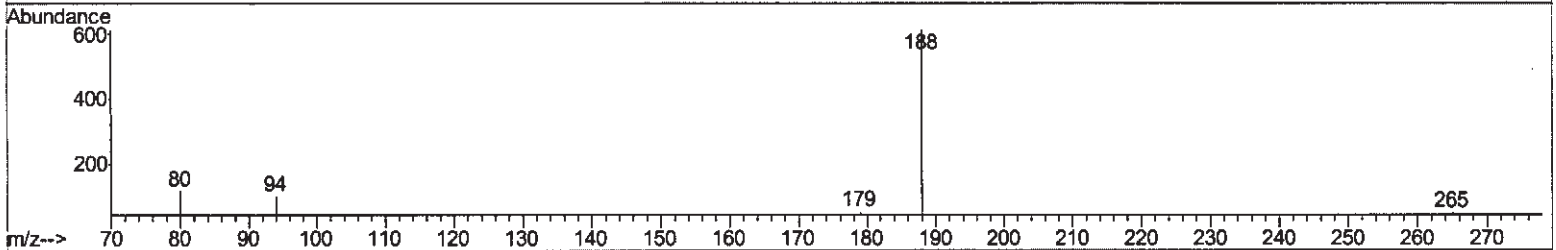
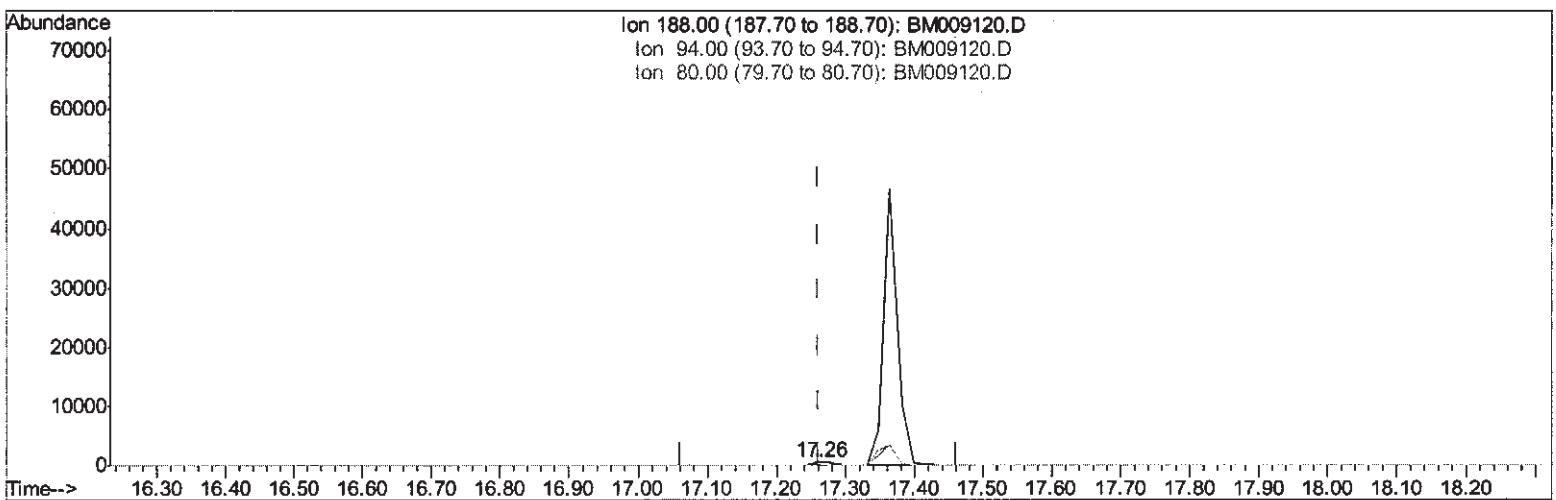
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

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Quant Time: Mar 09 01:20:51 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
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TIC: BM009120.D

(10) Phenanthrene-d10 (I)

17.262min (+0.000) 0.40ng/ul m > SJ
03/16/17

response 1016

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	16.83#
80.00	11.80	19.44#
0.00	0.00	0.00

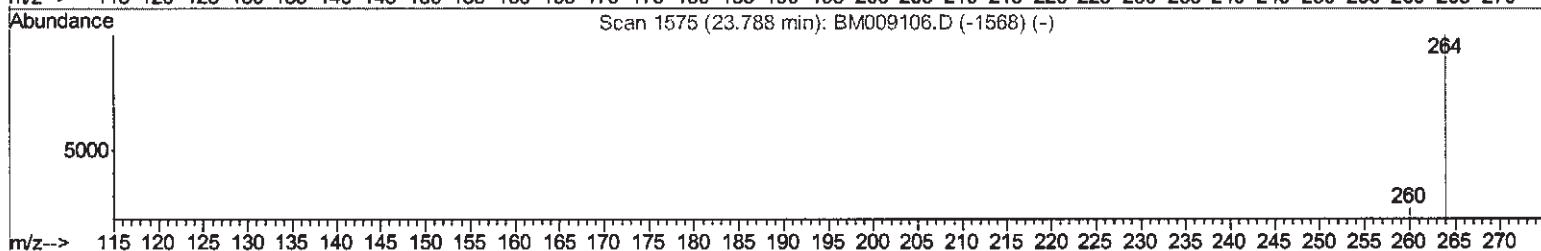
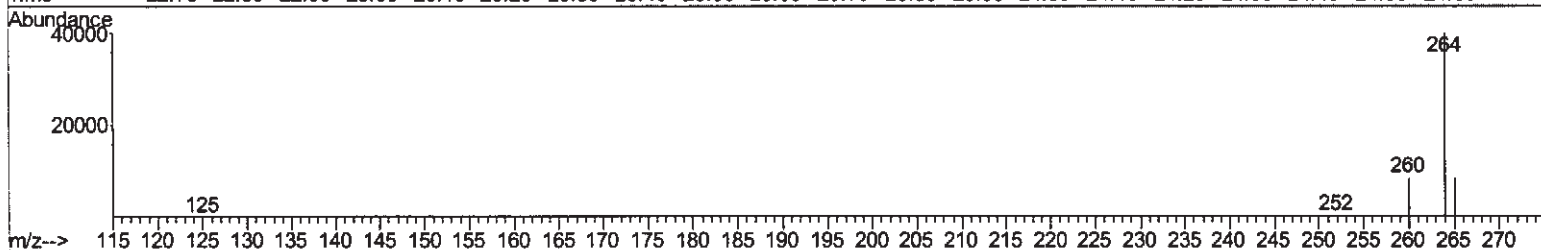
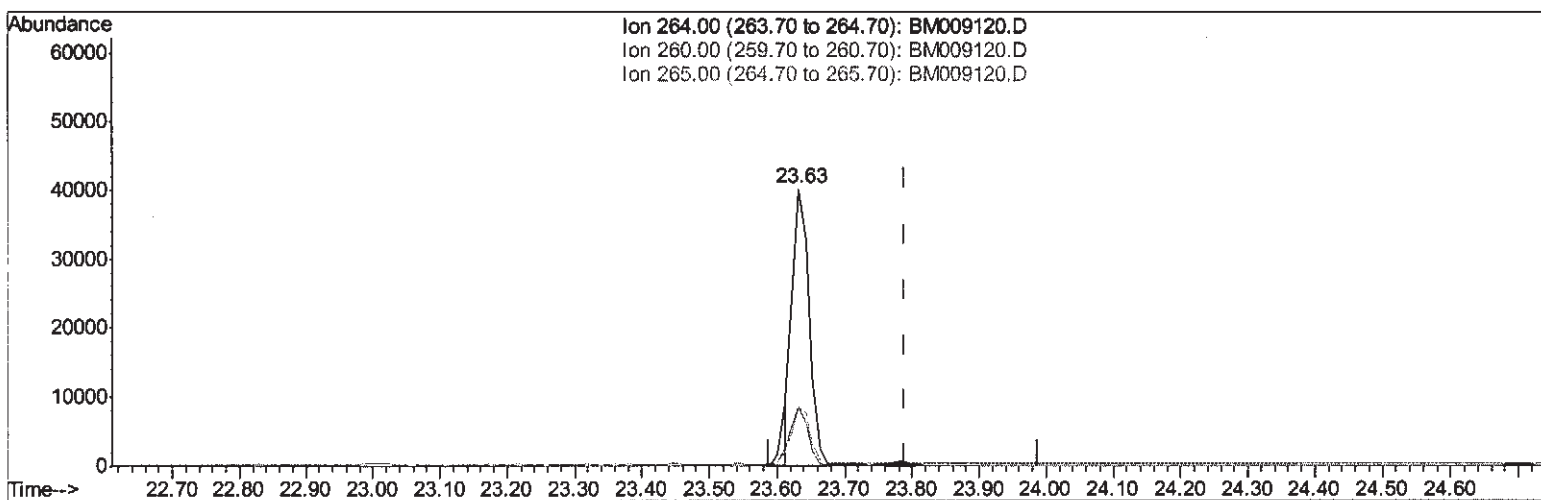
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:32 PM

Quant Time: Mar 09 01:20:51 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
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QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

(20) Perylene-d12 (I)

23.632min (-0.156) 0.40ng/ul

response 70980

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	21.17#
265.00	103.50	20.88#
0.00	0.00	0.00

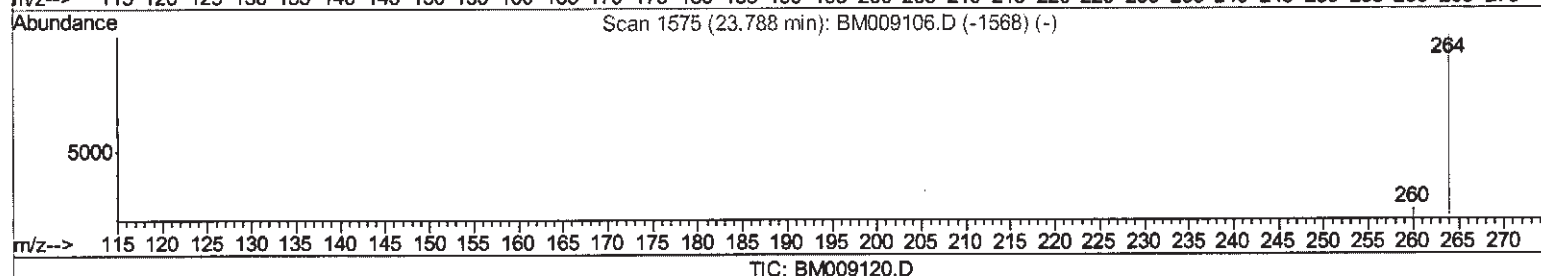
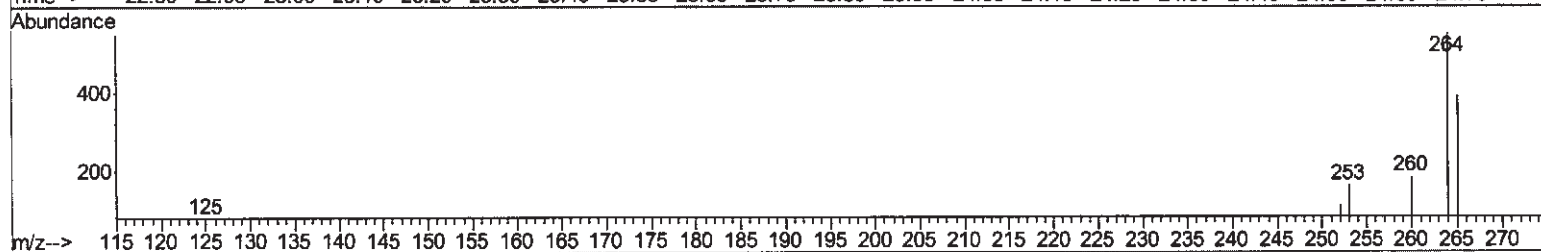
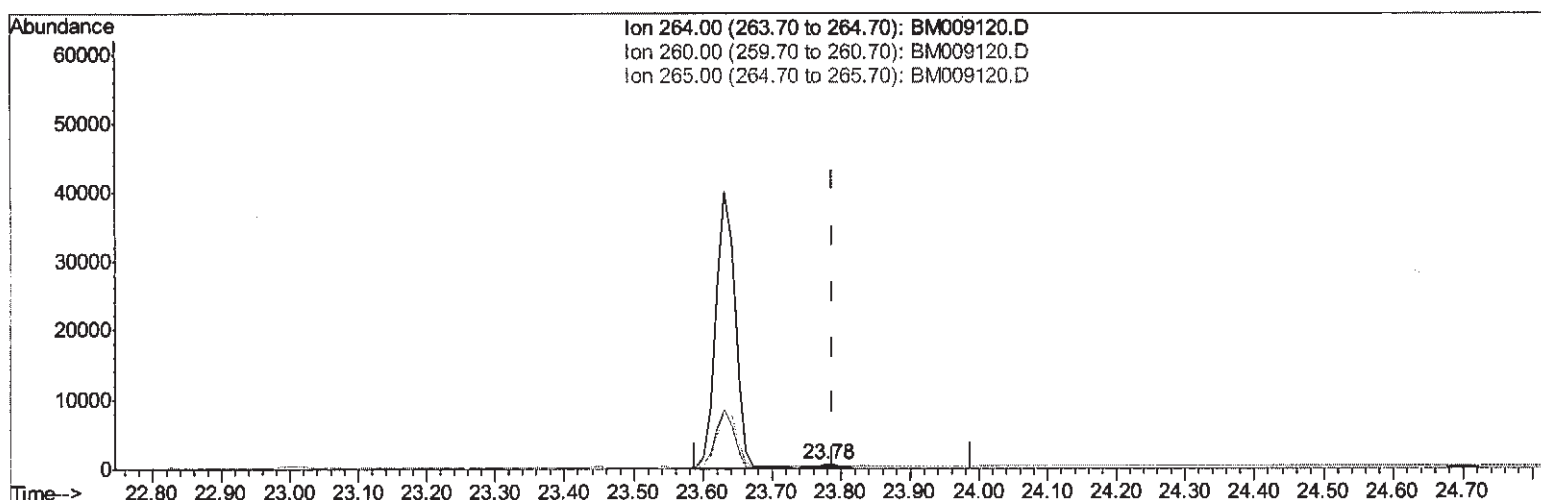
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
 Data File : BM009120.D
 Acq On : 08 Mar 2017 21:41
 Operator : SJ/MA
 Sample : I2062-16
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7

Manual Integrations
 APPROVED

mohammad
 3/9/2017 2:01:32 PM

Quant Time: Mar 09 01:20:51 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 09 01:19:41 2017
 Response via : Initial Calibration



(20) Perylene-d12 (I)

23.778min (-0.010) 0.40ng/ul m >

response 976

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	32.37
265.00	103.50	70.34#
0.00	0.00	0.00

SJ
 08/16/17

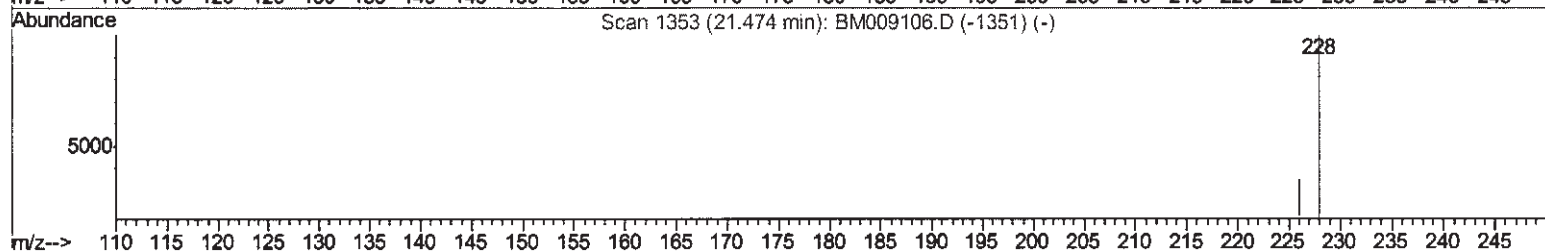
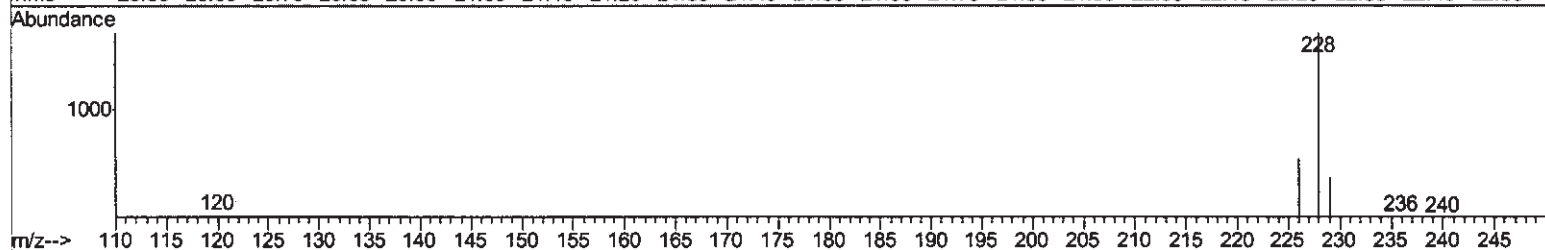
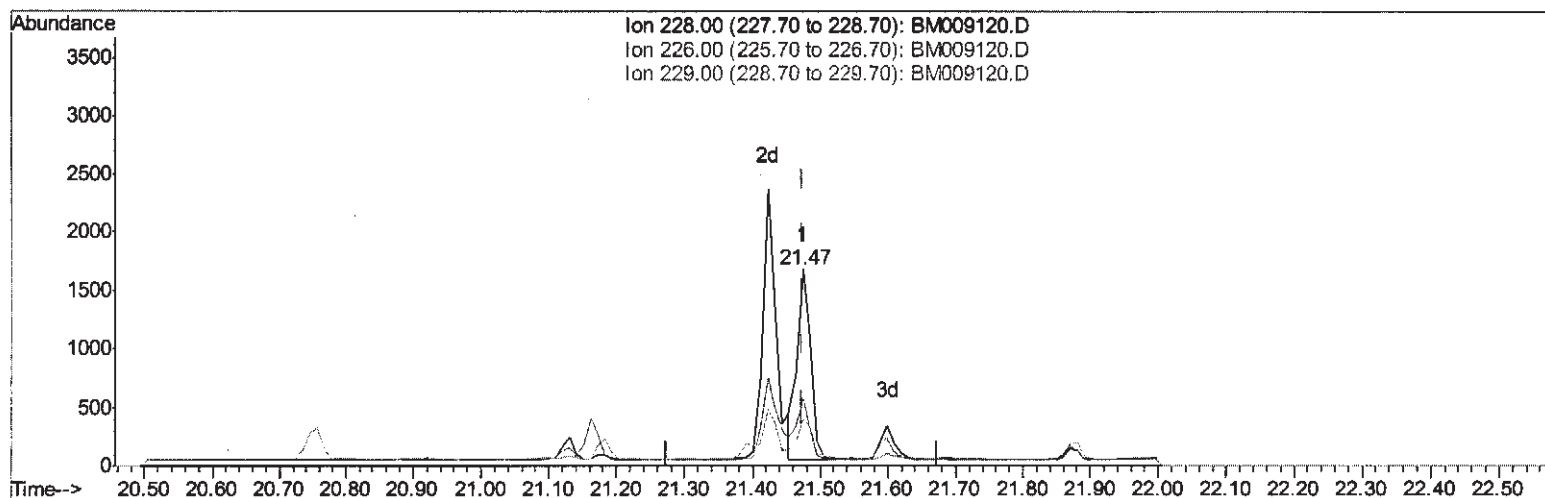
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

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Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
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TIC: BM009120.D

(19) Chrysene

21.474min (+0.000) 0.63ng/ul

response 2255

Ion	Exp%	Act%
228.00	100	100
226.00	29.20	34.68
229.00	22.10	23.96
0.00	0.00	0.00

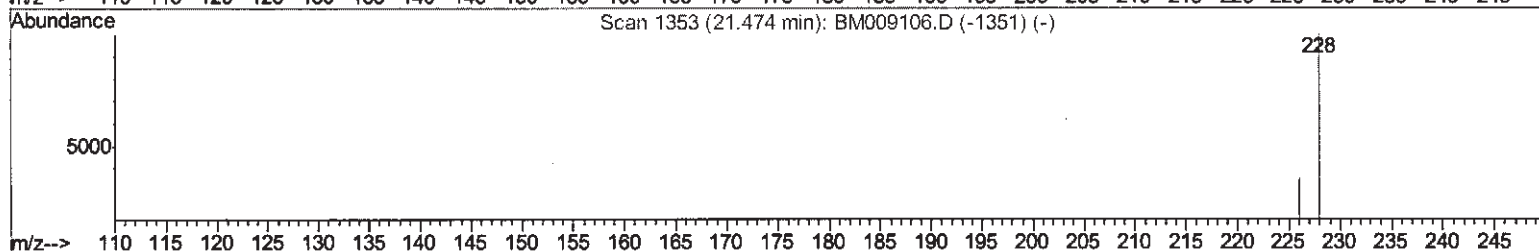
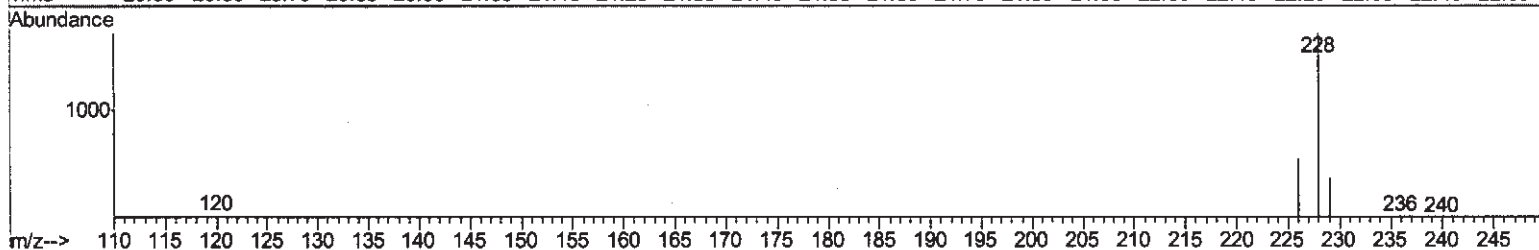
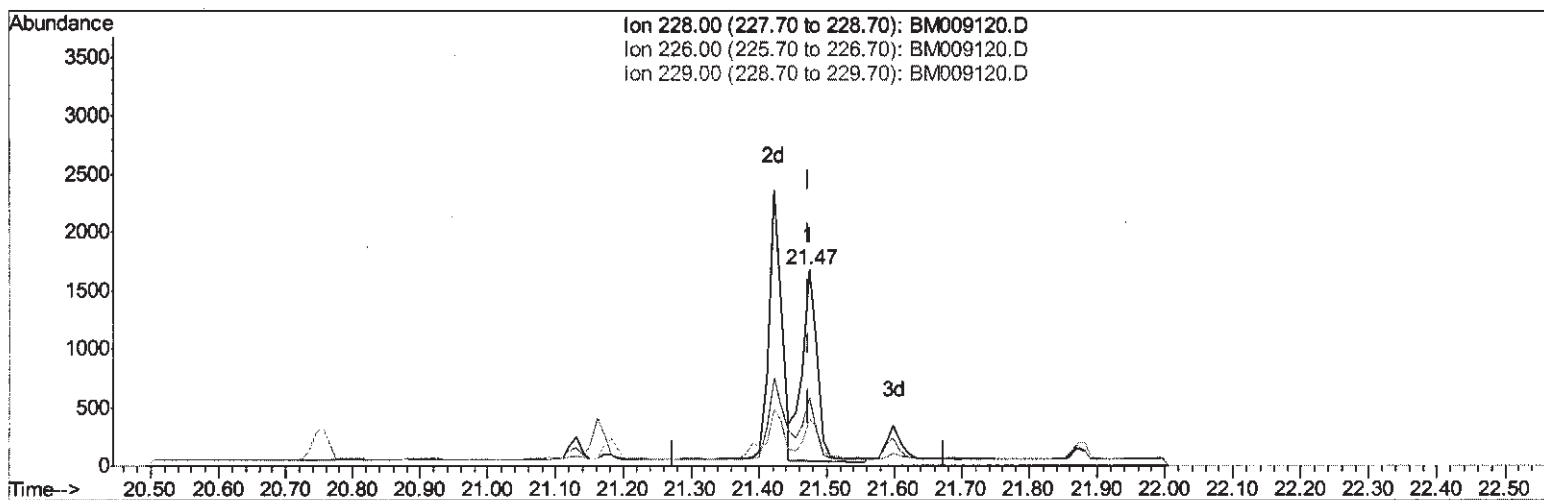
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

(19) Chrysene

21.474min (+0.000) 0.74ng/ul m

response 2629

Ion	Exp%	Act%
228.00	100	100
226.00	29.20	34.68
229.00	22.10	23.96
0.00	0.00	0.00

SJ
03/16/17

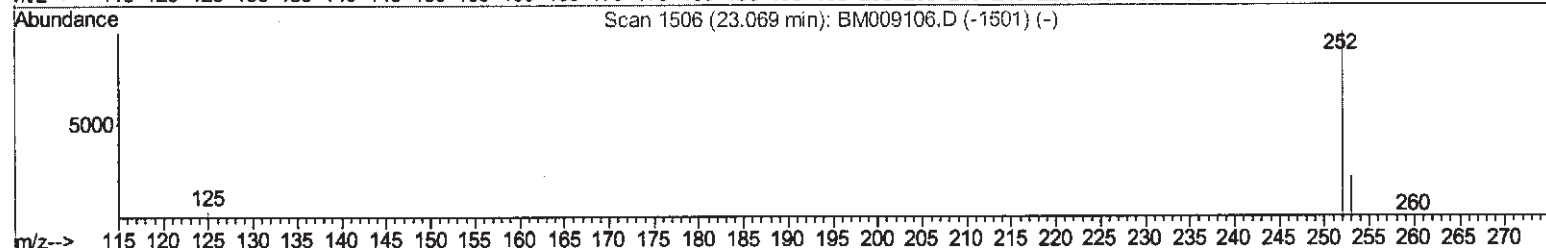
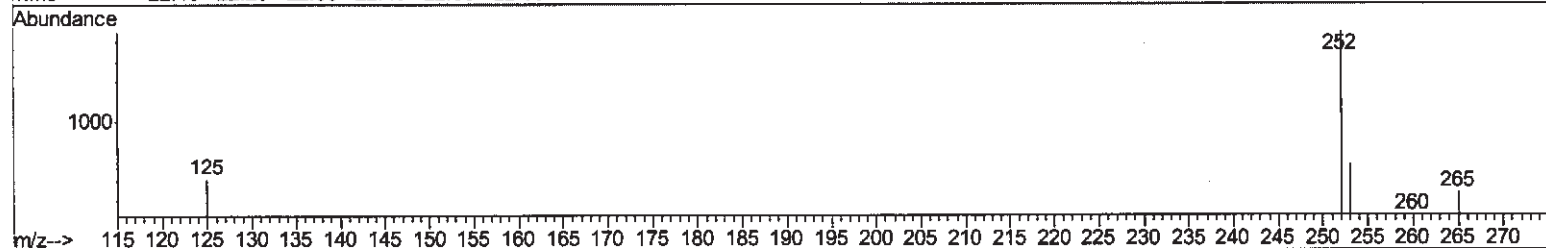
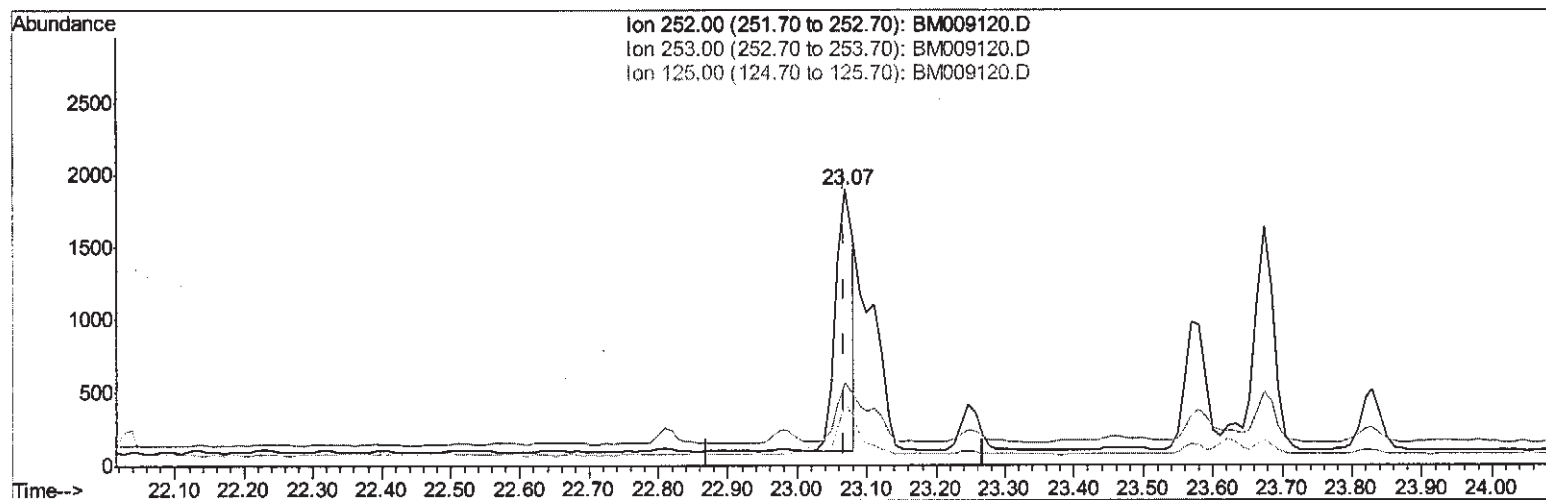
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
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Quant Time: Mar 09 02:38:11 2017
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TIC: BM009120.D

(21) Benzo(b)fluoranthene

23.069min (+0.000) 0.83ng/ul

response 3179

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	29.68
125.00	17.50	22.11
0.00	0.00	0.00

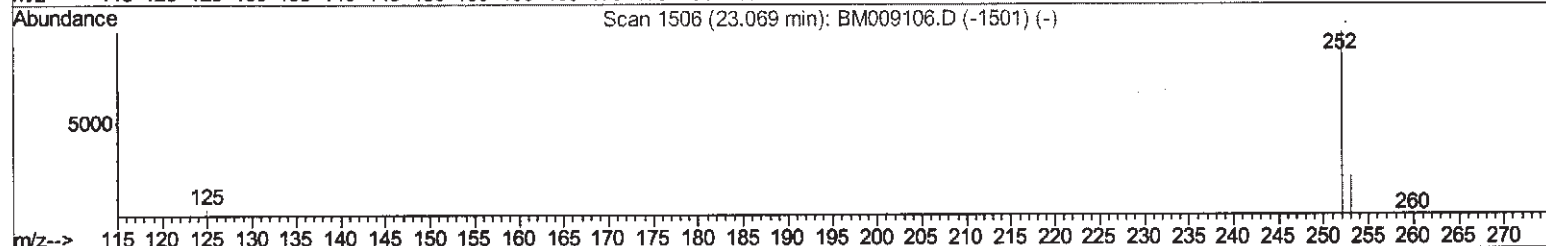
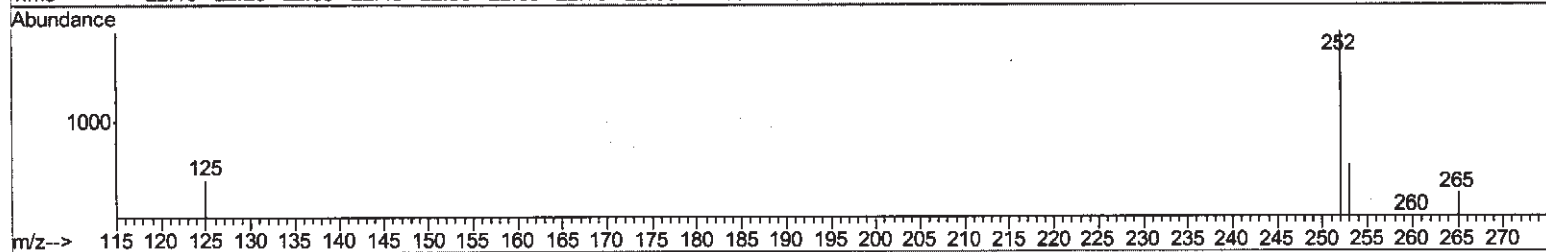
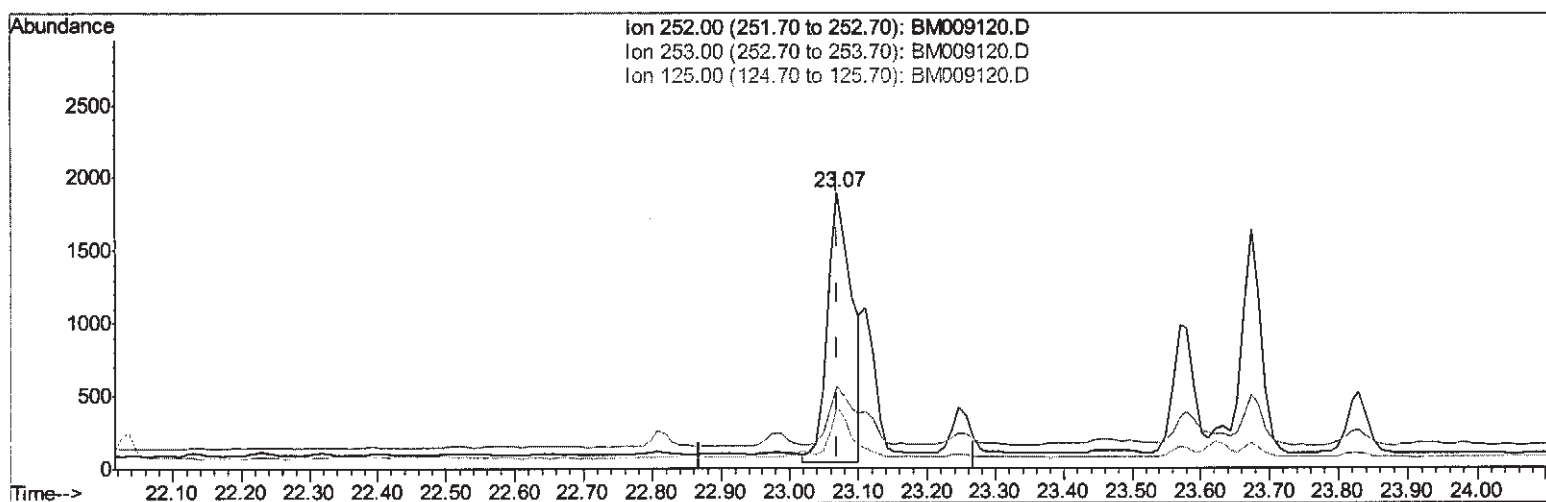
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

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3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
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QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

(21) Benzo(b)fluoranthene

23.069min (+0.000) 1.23ng/ul m

response 4721

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	29.68
125.00	17.50	22.11
0.00	0.00	0.00

SJ
09/16/17

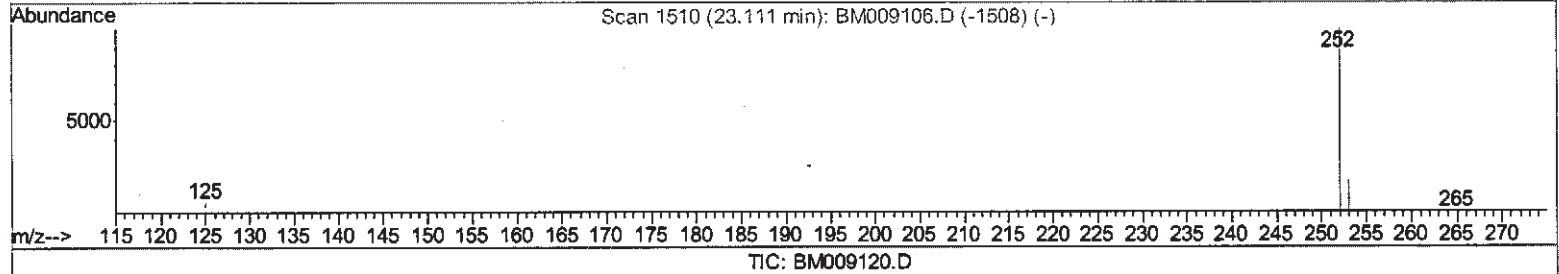
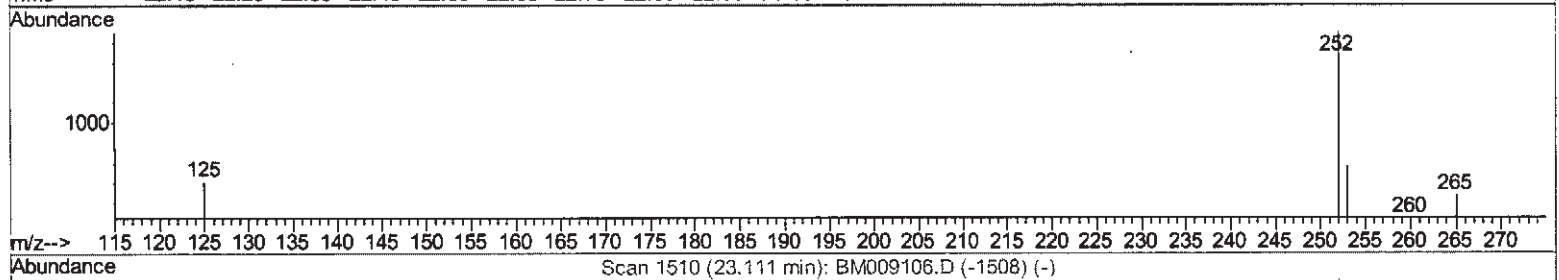
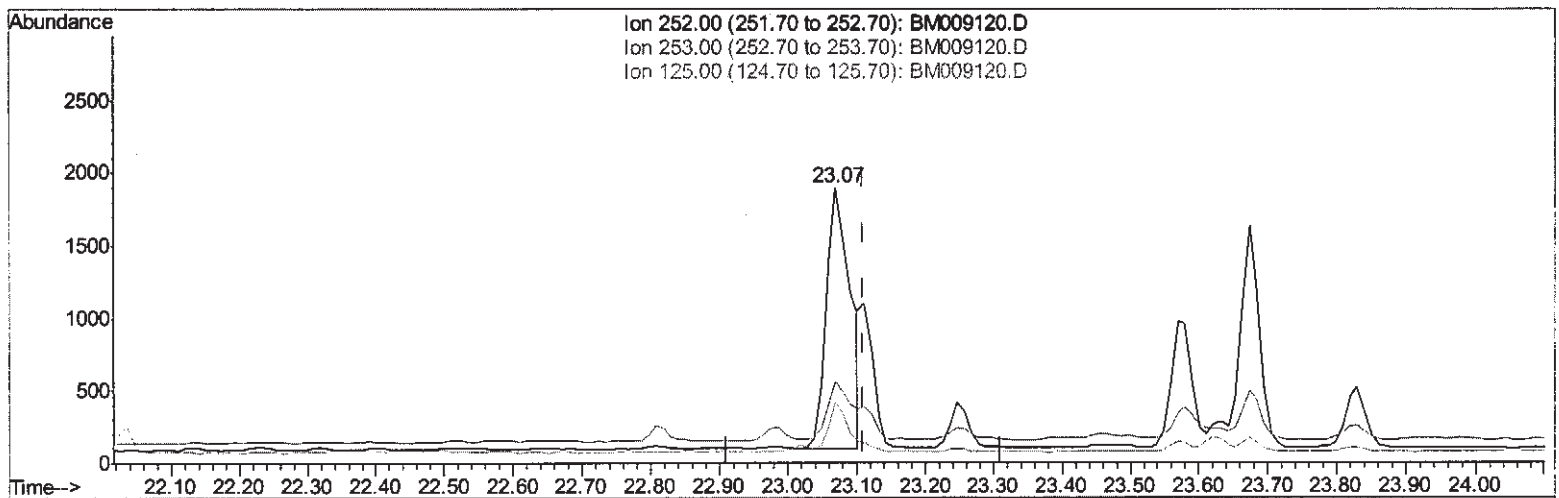
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
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3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration



(22) Benzo(k)fluoranthene

23.069min (-0.042) 1.31ng/ul

response 4446

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	29.68
125.00	17.10	22.11#
0.00	0.00	0.00

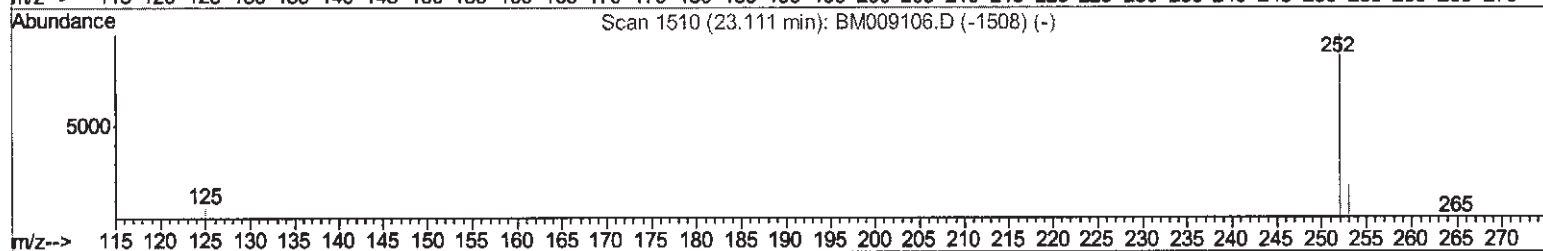
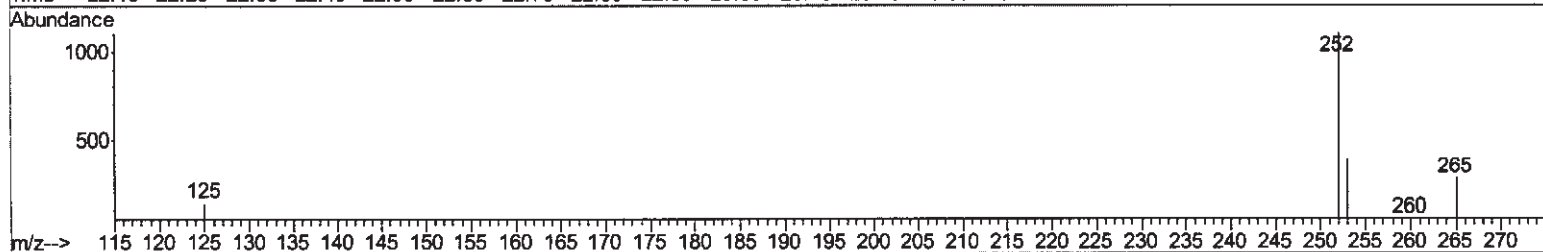
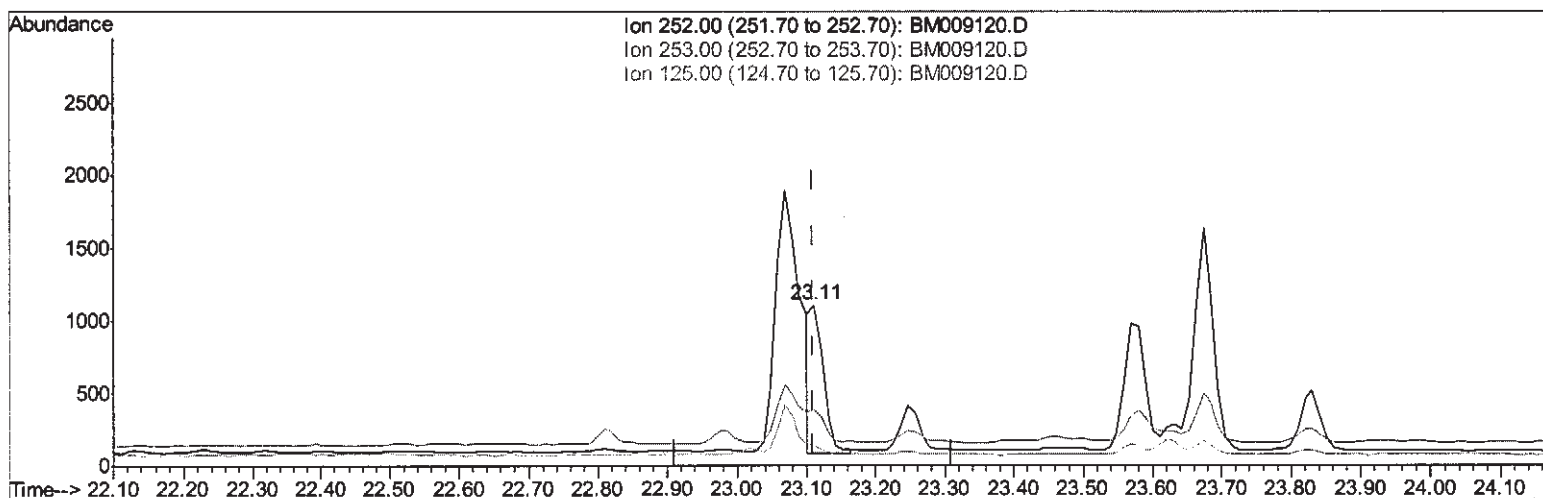
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

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3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
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Response via : Initial Calibration



TIC: BM009120.D

(22) Benzo(k)fluoranthene

23.111min (+0.000) 0.38ng/ul m

response 1292

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	34.96
125.00	17.10	12.38#
0.00	0.00	0.00

SJ
03/16/17

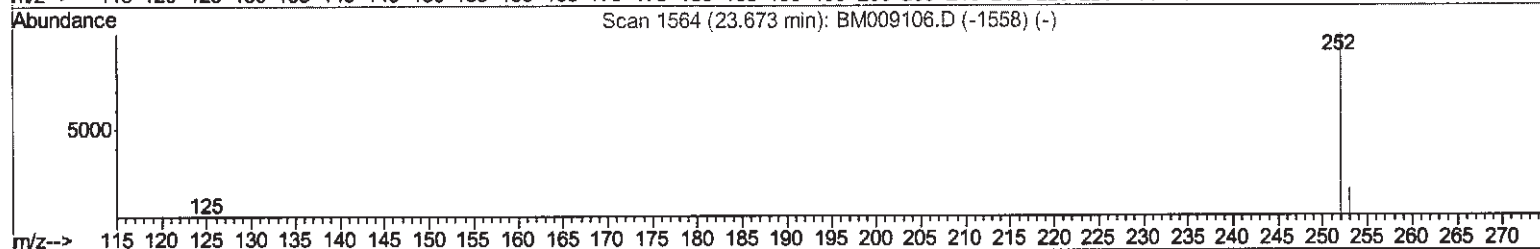
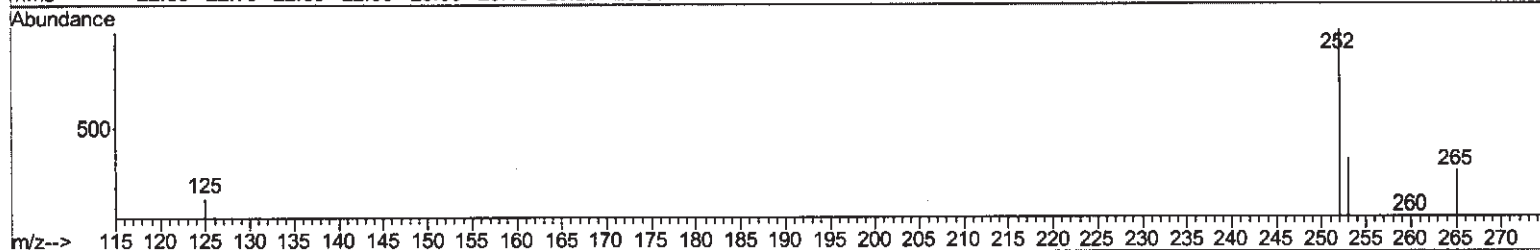
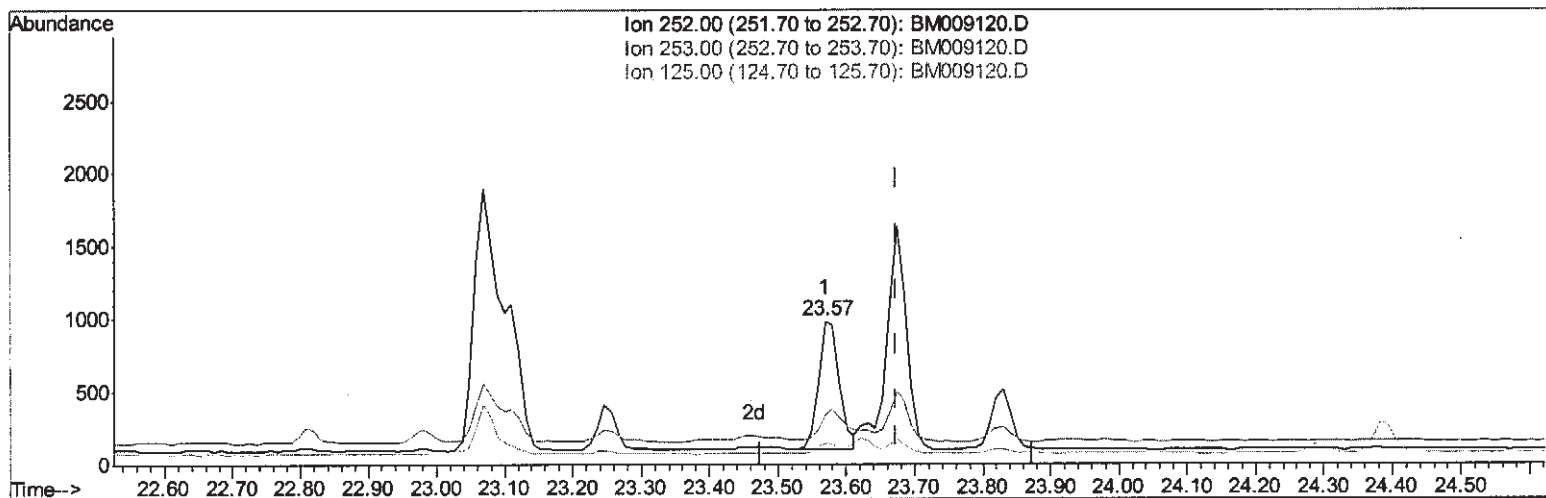
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

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Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
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TIC: BM009120.D

(23) Benzo(a)pyrene (C)

23.569min (-0.104) 0.54ng/ul

response 1870

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	35.29
125.00	22.60	15.01#
0.00	0.00	0.00

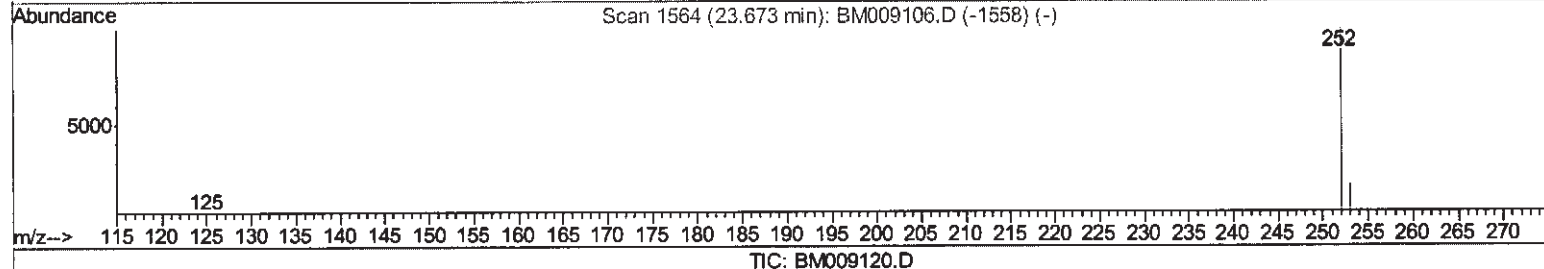
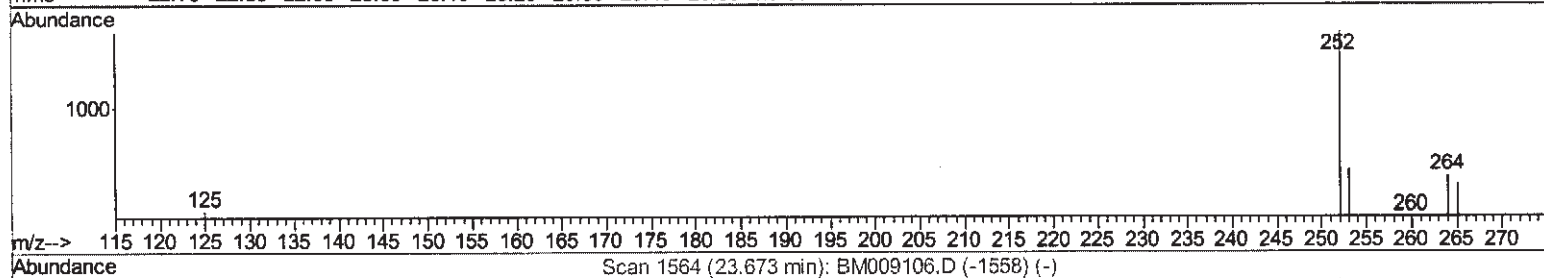
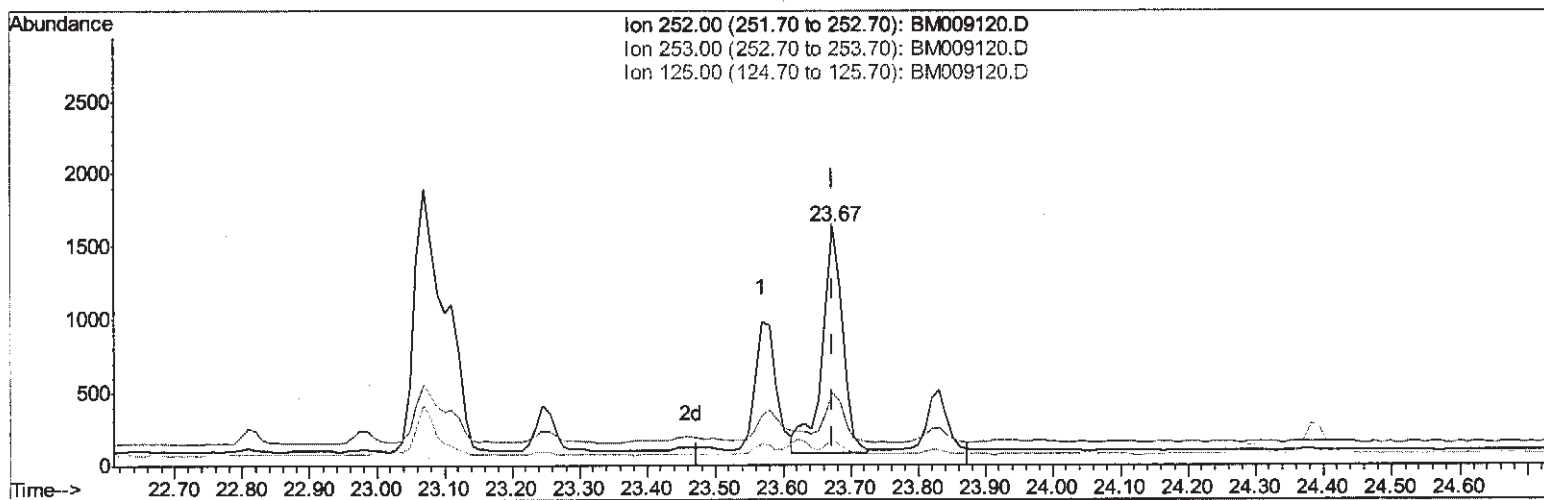
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.674min (+0.000) 0.95ng/ul m

response 3264

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	30.57
125.00	22.60	10.31#
0.00	0.00	0.00

SJ
03/16/17

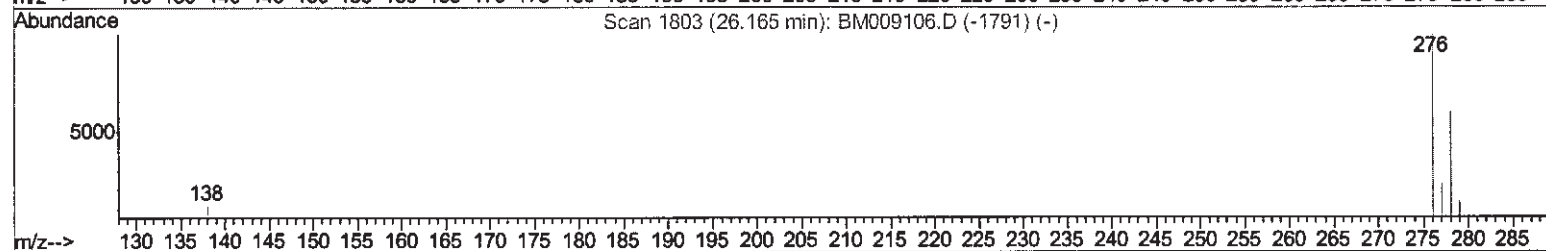
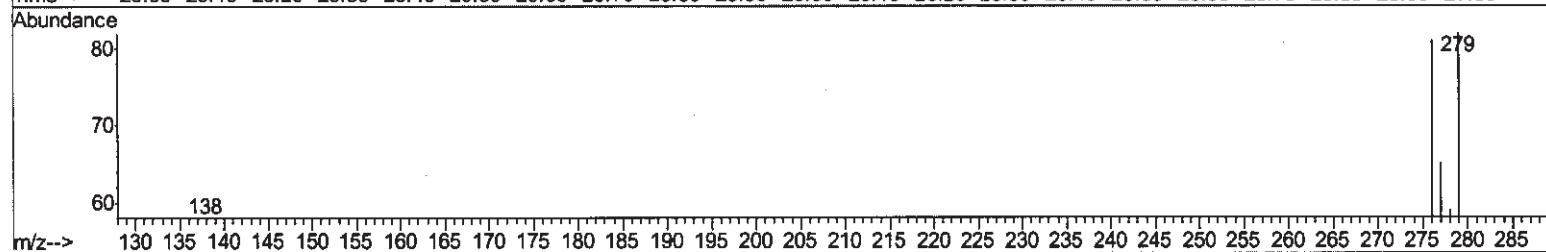
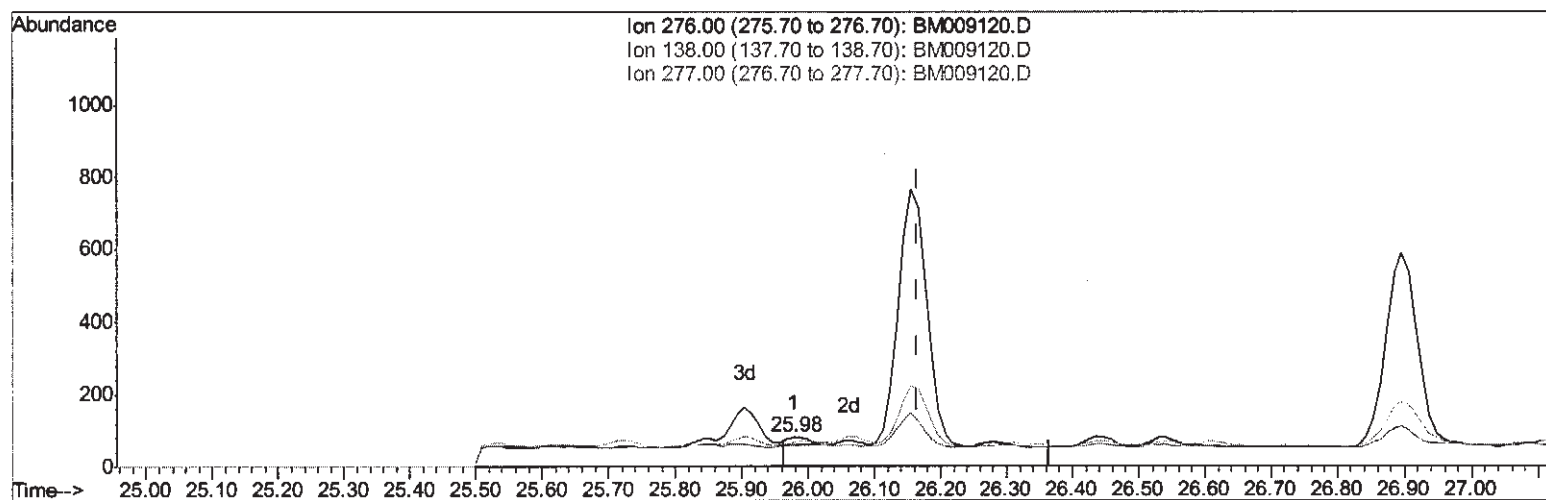
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
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Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
C0AF7

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:32 PM

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TIC: BM009120.D

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

25.977min (-0.187) 0.01ng/ul

response 57

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	50.88#
277.00	24.50	0.00#
0.00	0.00	0.00

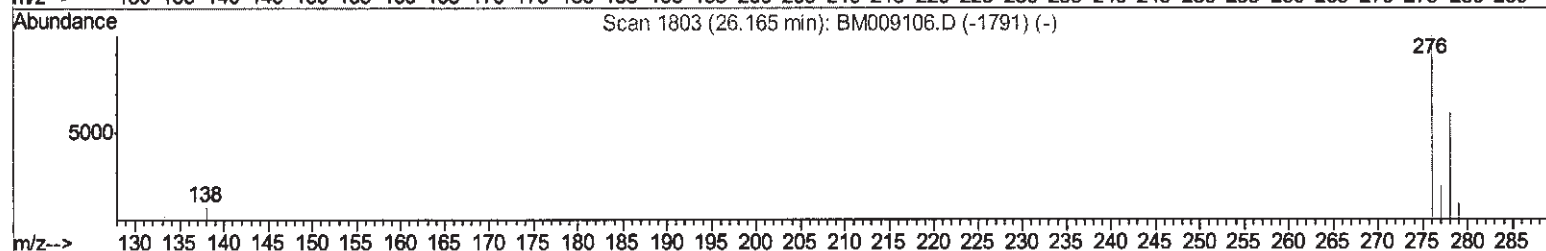
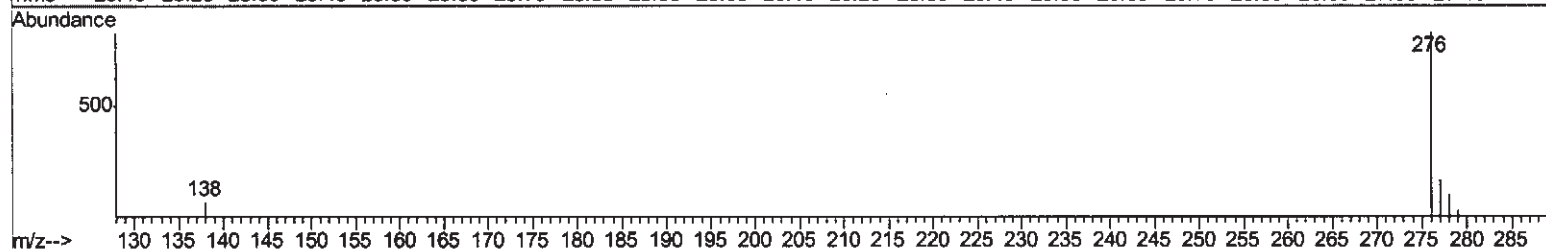
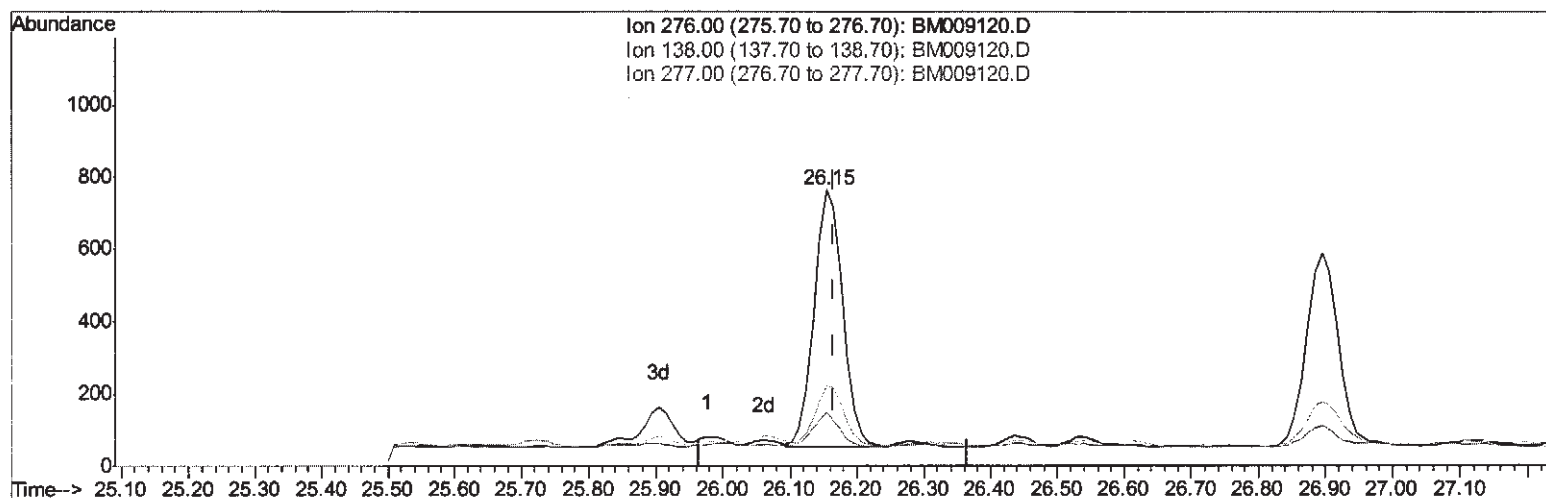
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
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mohammad
3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

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

26.155min (-0.010) 0.48ng/ul m

response 2118

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	1.37#
277.00	24.50	0.00#
0.00	0.00	0.00

> SJ
03/16/17

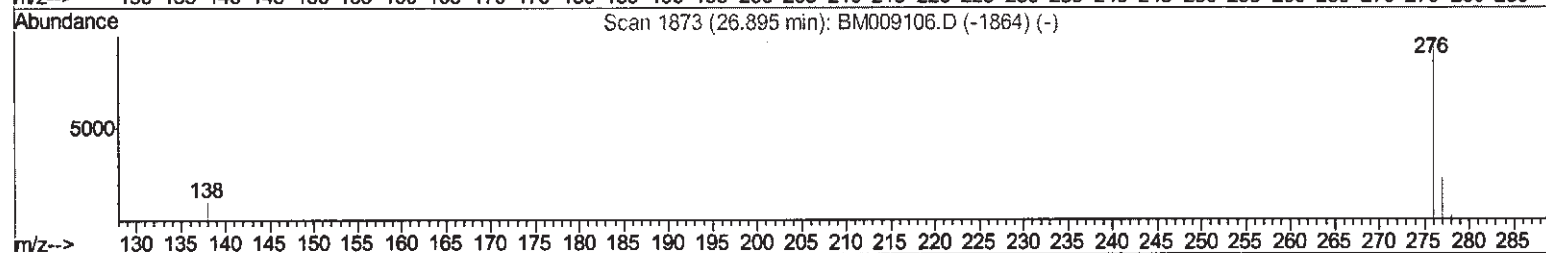
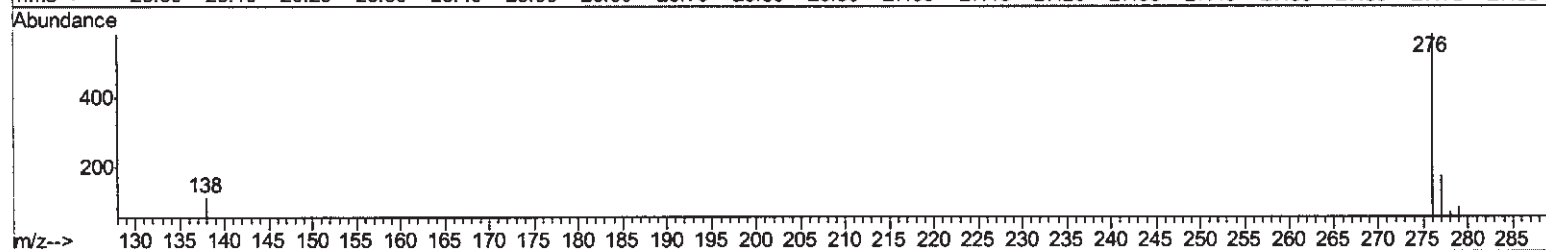
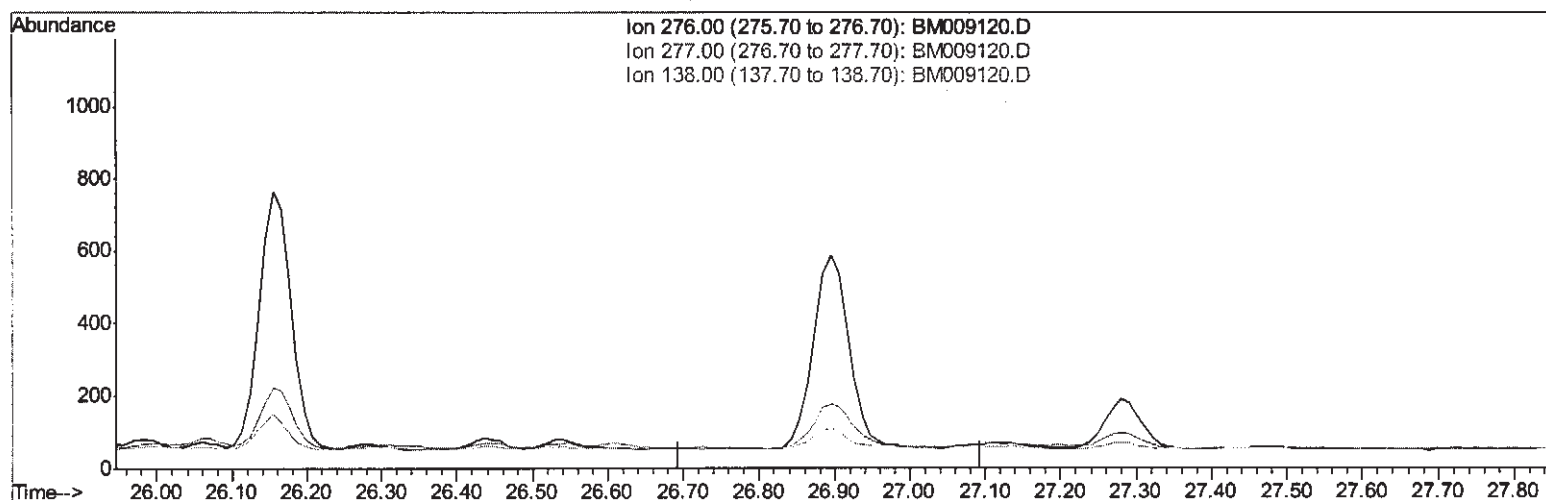
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
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mohammad
3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

(26) Benzo(g,h,i)perylene
26.895min (-26.895) 0.00ng/ul
response 0

Ion	Exp%	Act%
276.00	100	0.00
277.00	27.30	0.00#
138.00	25.60	0.00#
0.00	0.00	0.00

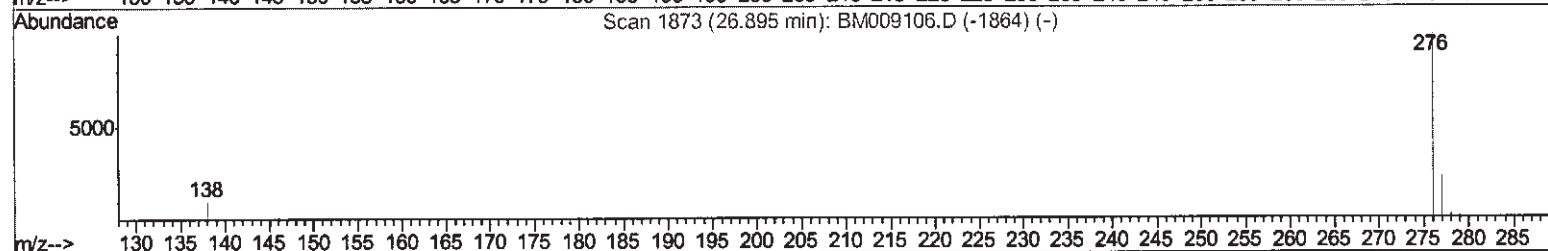
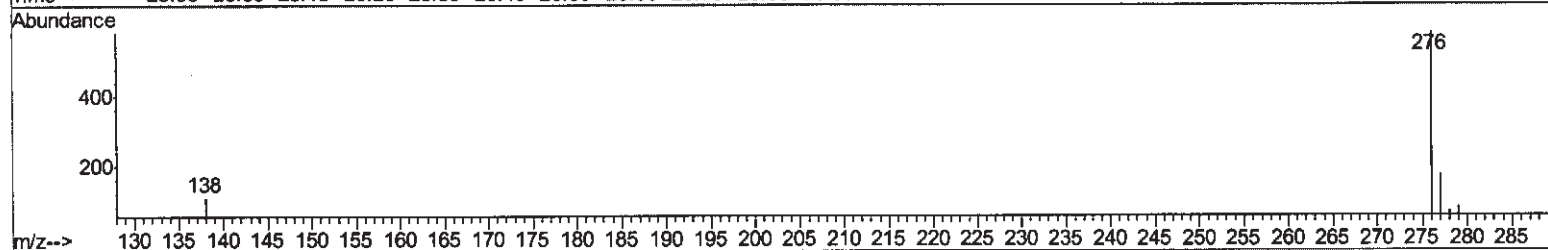
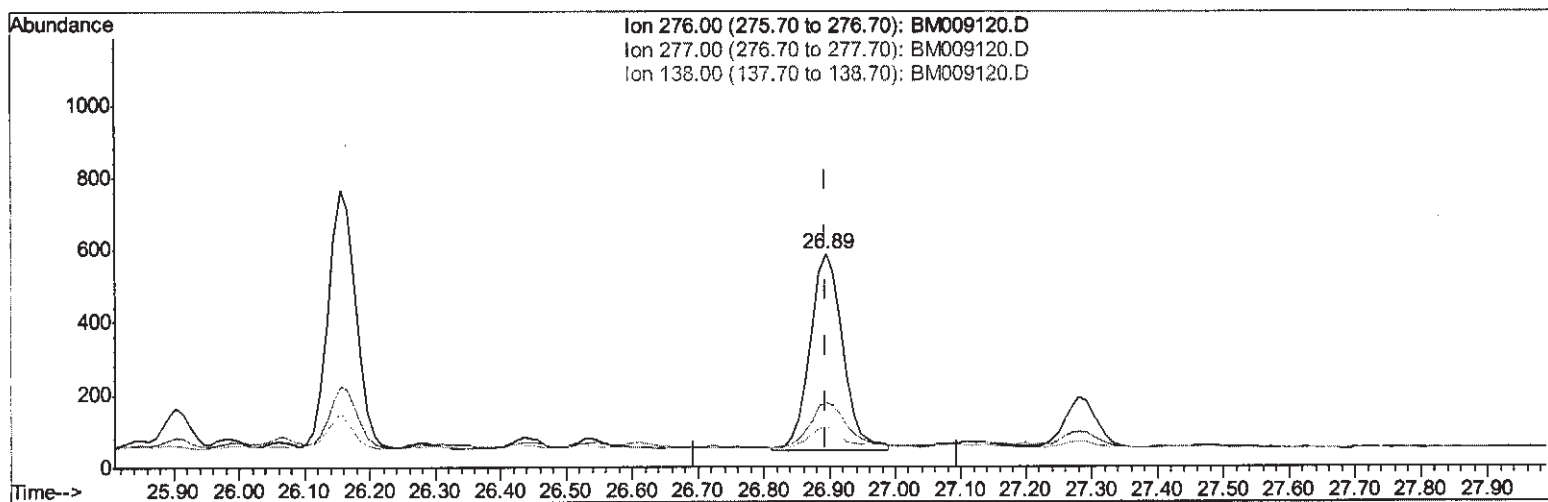
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
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3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:38:11 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

(26) Benzo(g,h,i)perylene

26.895min (+0.000) 0.50ng/ul m

response 1854

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	30.15
138.00	25.60	18.91#
0.00	0.00	0.00

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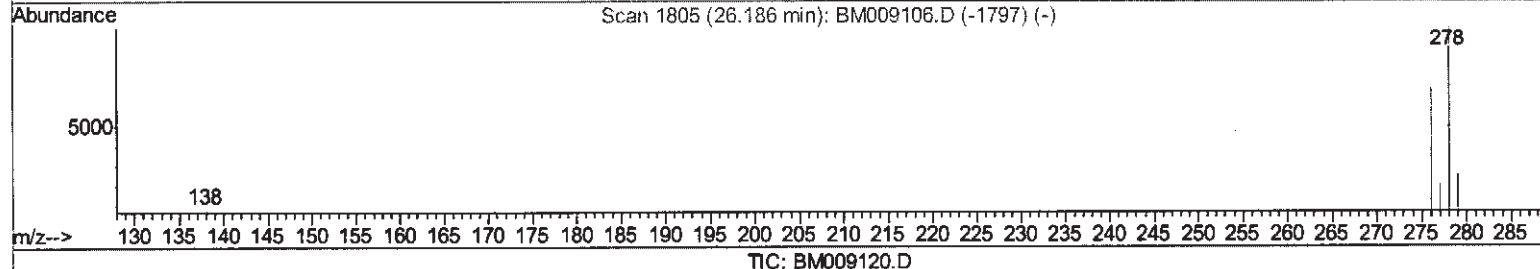
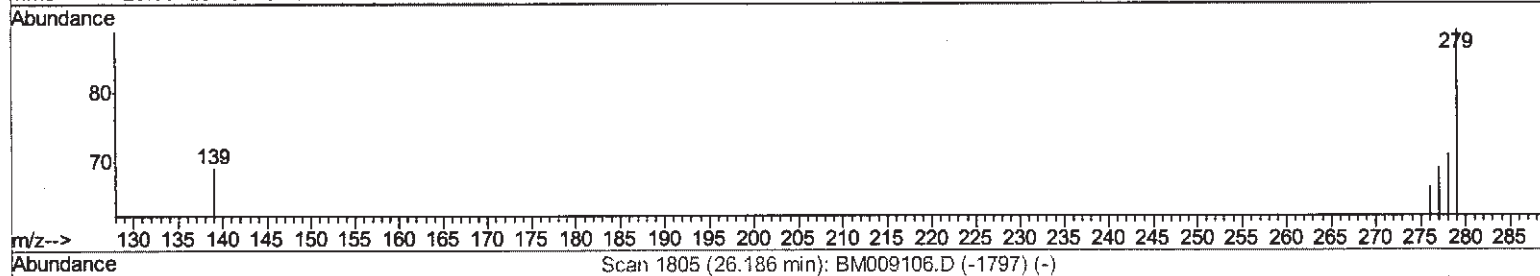
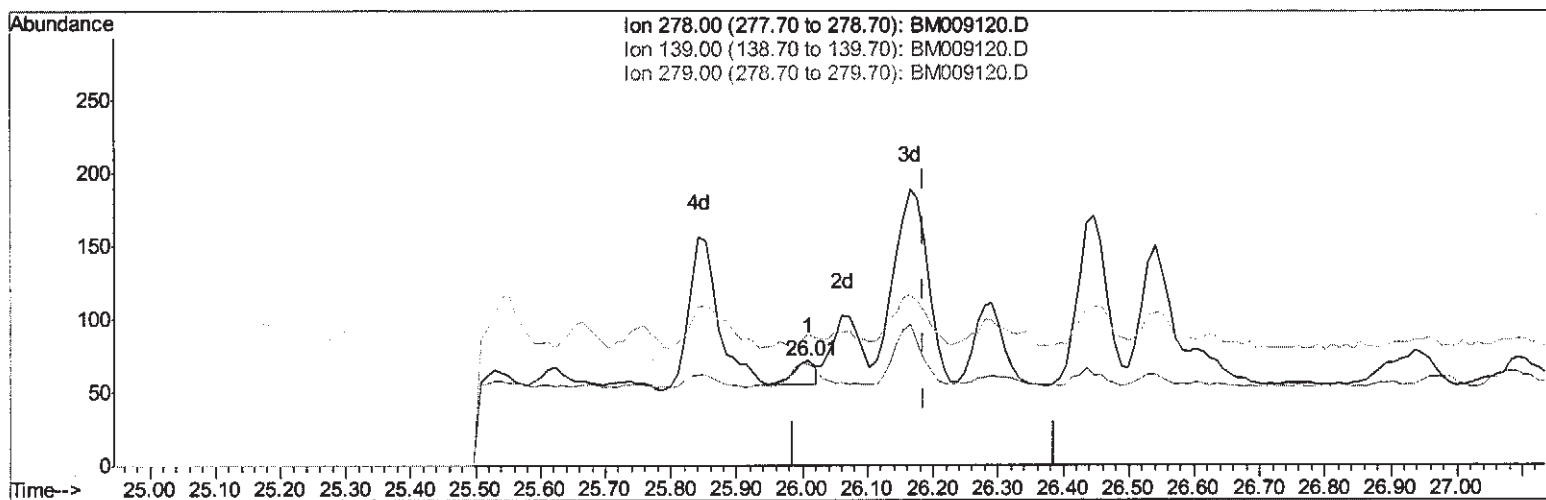
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
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3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:40:04 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

26.009min (-0.177) 0.01ng/ul

response 38

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	97.18#
279.00	32.40	125.35#
0.00	0.00	0.00

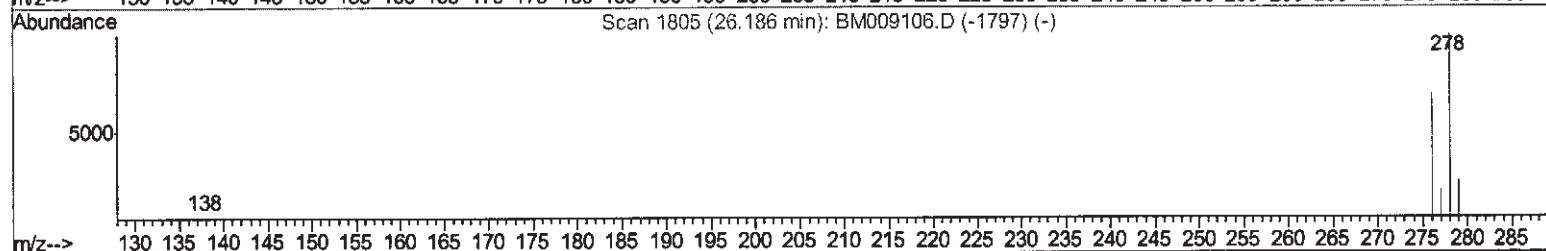
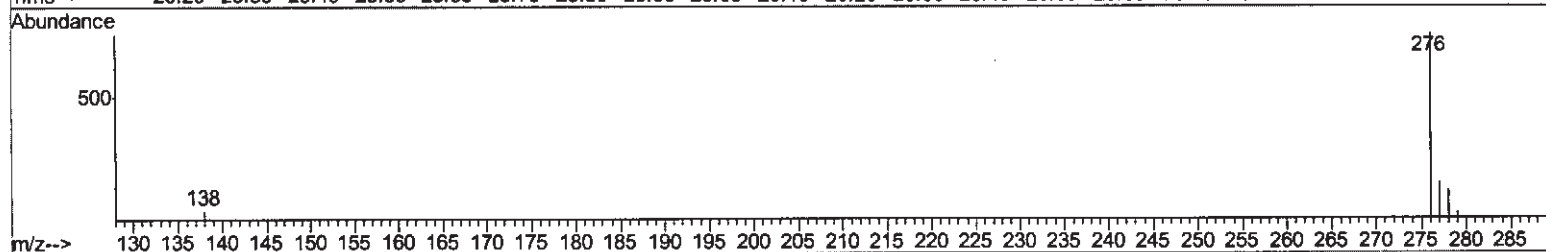
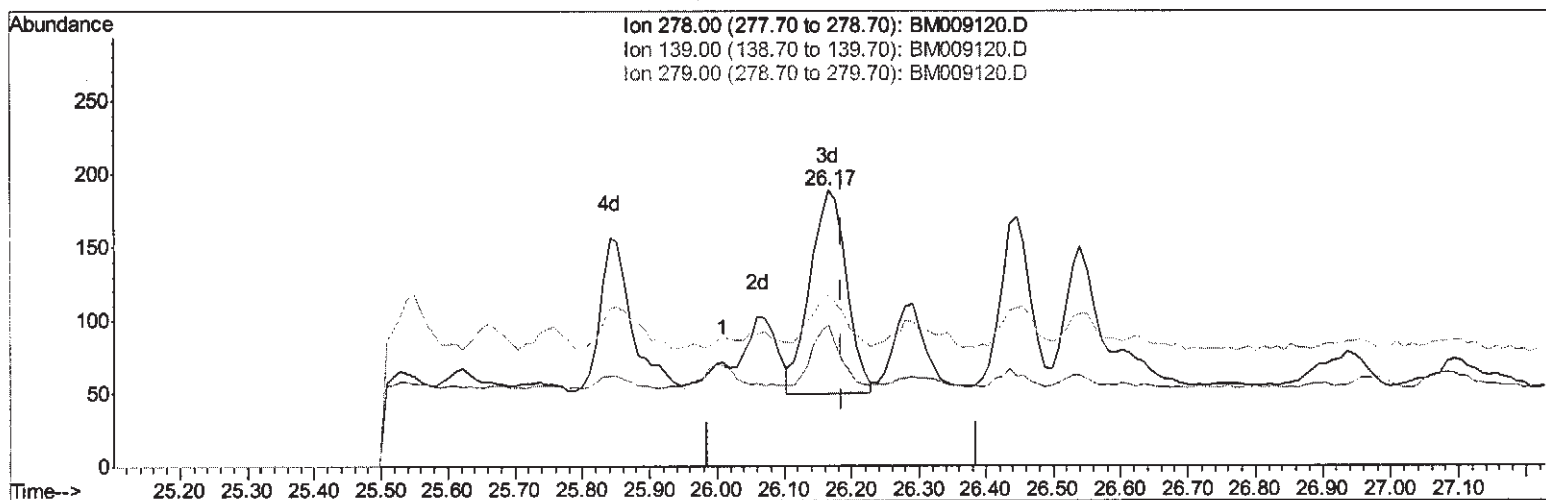
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009120.D
Acq On : 08 Mar 2017 21:41
Operator : SJ/MA
Sample : I2062-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations
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Quant Time: Mar 09 02:40:04 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 01:19:41 2017
Response via : Initial Calibration



TIC: BM009120.D

(25) Dibenzo(a,h)anthracene

26.165min (-0.021) 0.14ng/ul m

response 527

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	50.79#
279.00	32.40	61.90#
0.00	0.00	0.00

SJ
03/16/17

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
 Data File : BM009120.D
 Acq On : 08 Mar 2017 21:41
 Operator : SJ/MA
 Sample : I2062-16
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7

Manual Integrations
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 3/9/2017 2:01:32 PM

Quant Time: Mar 09 02:41:33 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 09 01:19:41 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	223	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.68	136	719	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.52	164	434	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.26	188	1016m	0.40	ng/ul	0.00
16) Chrysene-d12	21.44	240	1133	0.40	ng/ul	0.00
20) Perylene-d12	23.78	264	976m	0.40	ng/ul	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.27	152	272	0.23	ng/ul	-0.01
14) Fluoranthene-d10	19.29	212	853	0.27	ng/ul	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.73	128	300	0.14	ng/ul#	58
5) 2-Methylnaphthalene	12.34	142	172	0.12	ng/ul	99
7) Acenaphthylene	14.25	152	247	0.11	ng/ul#	55
8) Acenaphthene	14.59	153	165	0.10	ng/ul#	88
9) Fluorene	15.58	166	618	0.30	ng/ul#	95
12) Phenanthrene	17.31	178	4649	1.46	ng/ul	93
13) Anthracene	17.40	178	1214	0.39	ng/ul	95
15) Fluoranthene	19.32	202	6066	1.46	ng/ul	95
17) Pyrene	19.69	202	4955	1.27	ng/ul	95
18) Benzo(a)anthracene	21.42	228	3014	0.80	ng/ul	96
19) Chrysene	21.47	228	2629m	0.74	ng/ul	
21) Benzo(b)fluoranthene	23.07	252	4721m	1.23	ng/ul	
22) Benzo(k)fluoranthene	23.11	252	1292m	0.38	ng/ul	
23) Benzo(a)pyrene	23.67	252	3264m	0.95	ng/ul	
24) Indeno(1,2,3-cd)pyrene	26.15	276	2118m	0.48	ng/ul	
25) Dibenzo(a,h)anthracene	26.17	278	527m	0.14	ng/ul	
26) Benzo(g,h,i)perylene	26.89	276	1854m	0.50	ng/ul	

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