

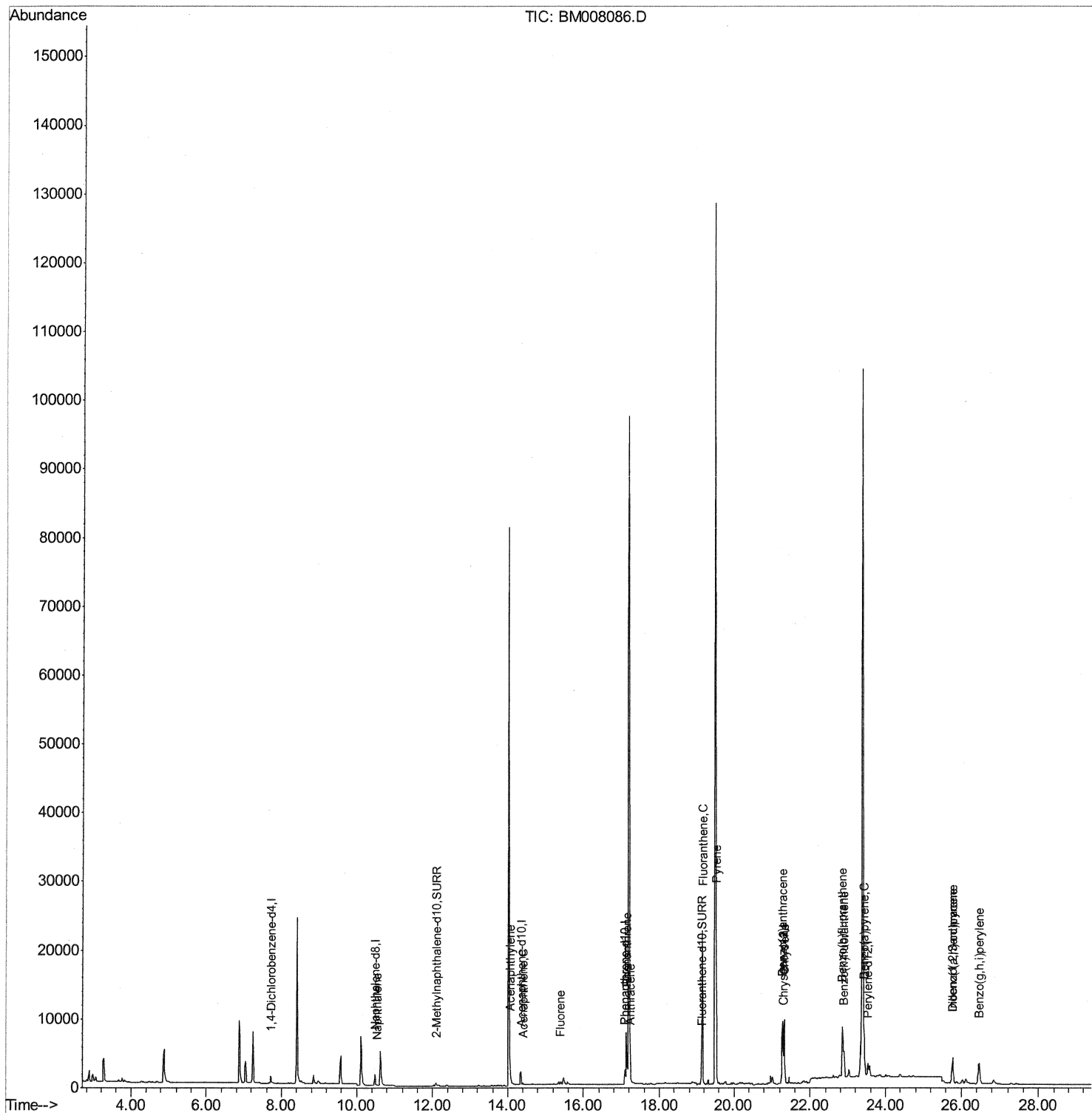
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

UMANGI
11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:39:50 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration



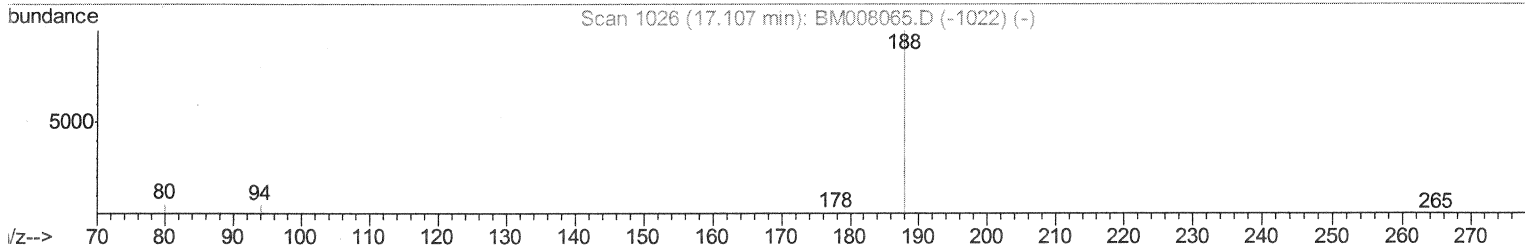
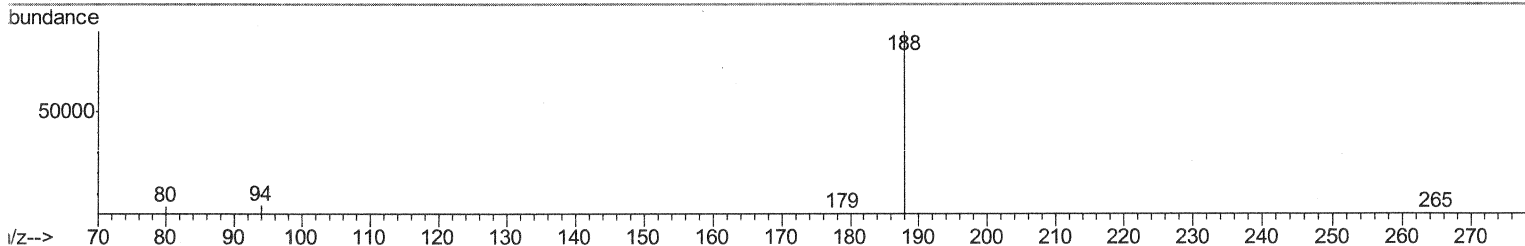
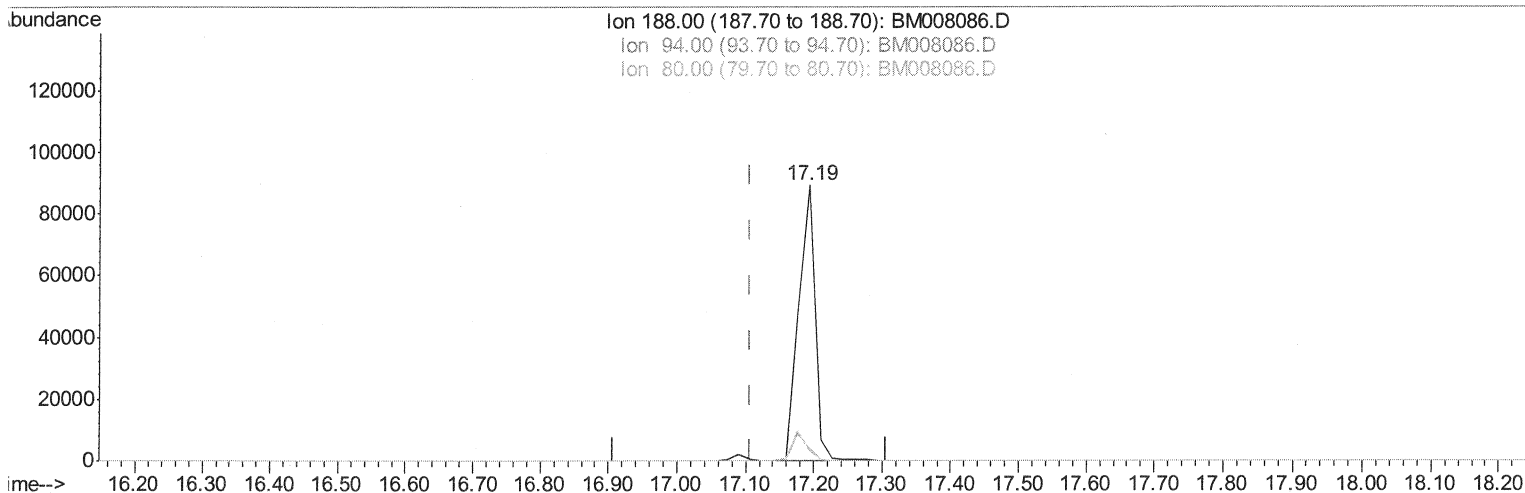
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
 Data File : BM008086.D
 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:33:40 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 28 14:45:16 2016
 Response via : Initial Calibration



TIC: BM008086.D

(10) Phenanthrene-d10 (I)

17.193min (+0.086) 0.40ng/ul

response 149112

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	4.75#
80.00	11.80	3.88#
0.00	0.00	0.00

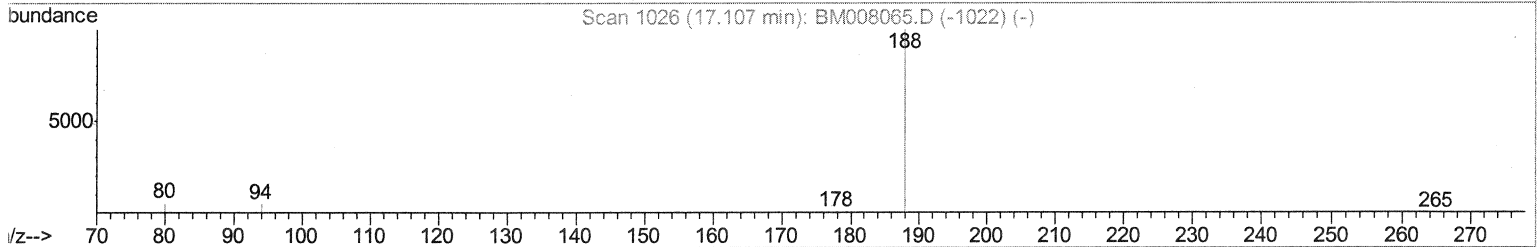
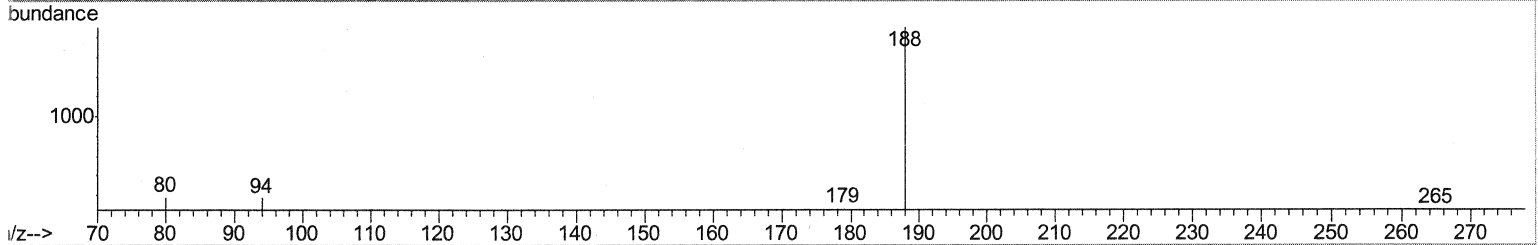
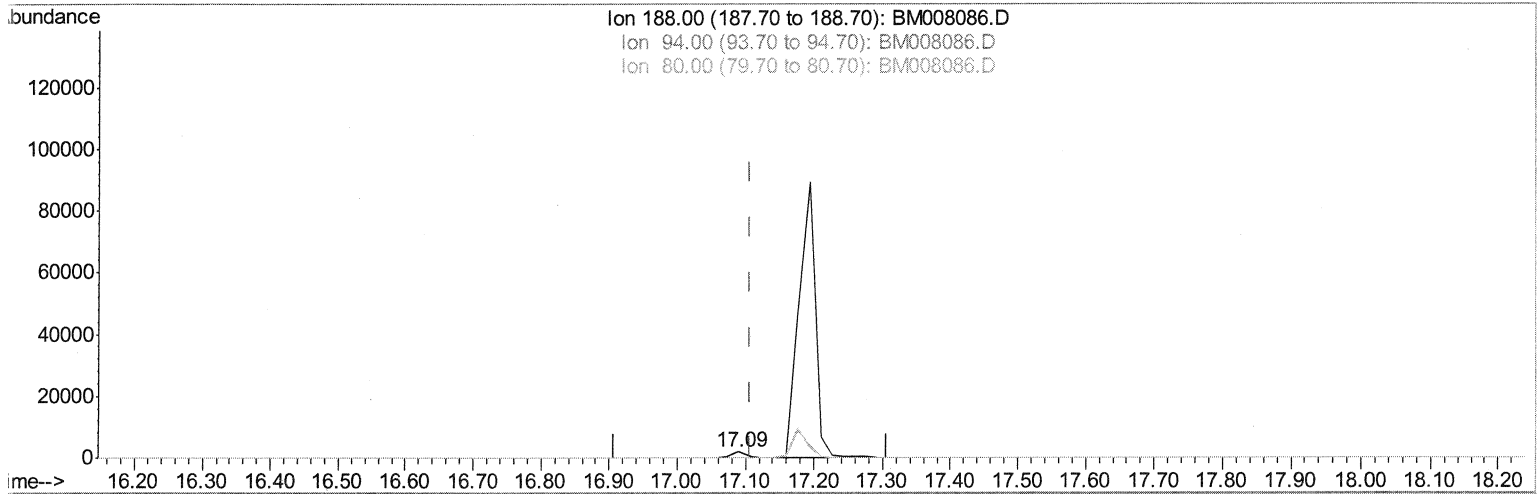
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

UMANGI
11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:33:40 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
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TIC: BM008086.D

(10) Phenanthrene-d10 (I)

17.090min (-0.017) 0.40ng/ul m

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response 2974

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	9.10
80.00	11.80	9.36#
0.00	0.00	0.00

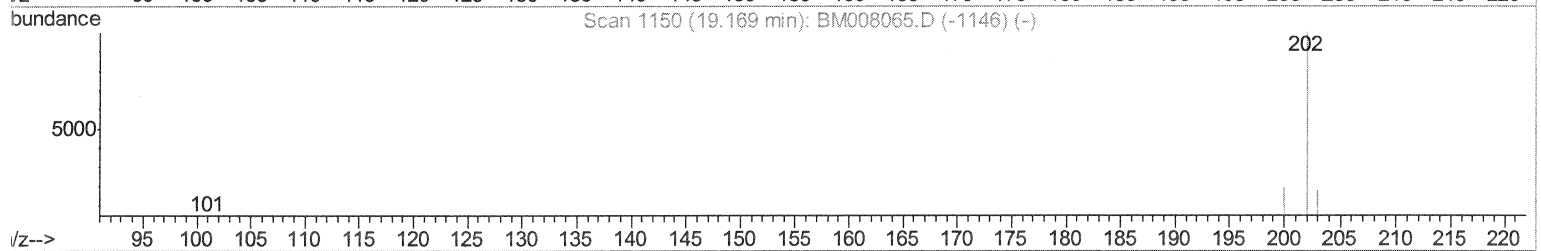
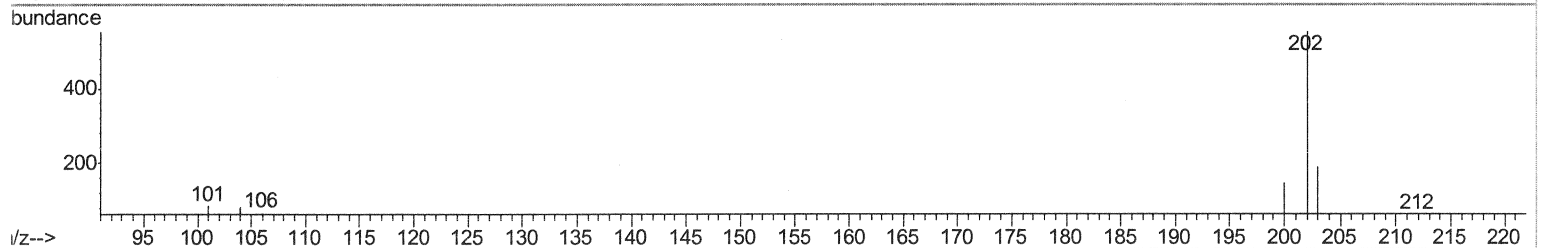
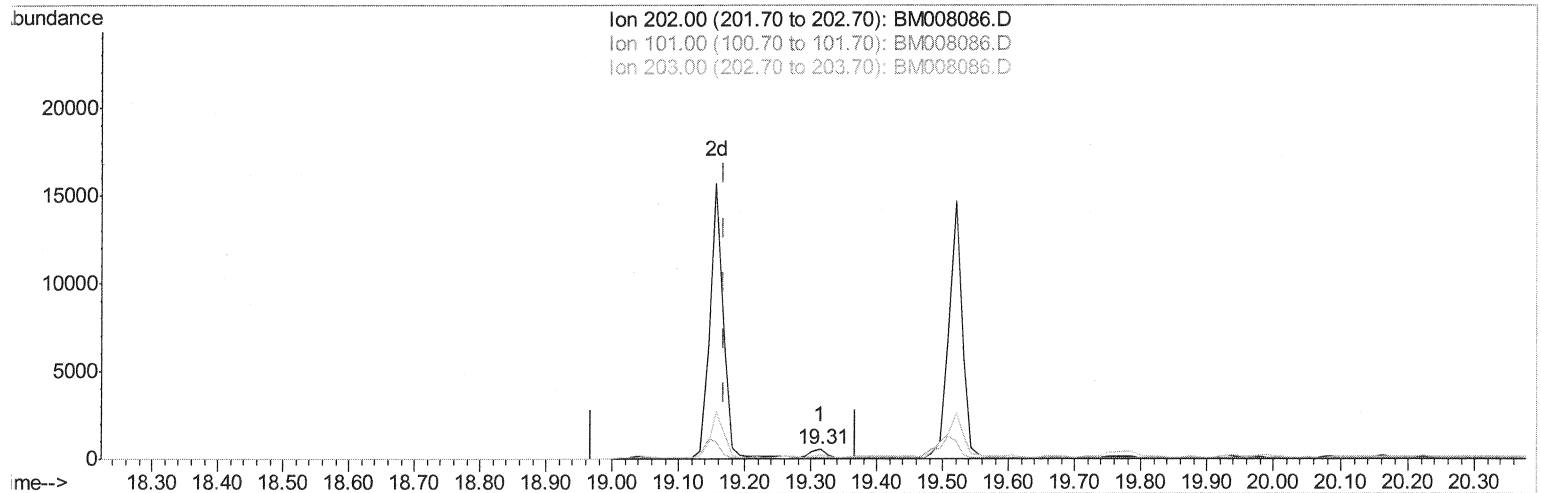
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

UMANGI
11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:35:15 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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TIC: BM008086.D

(15) Fluoranthene (C)

19.314min (+0.145) 0.07ng/ul

response 797

Ion	Exp%	Act%
202.00	100	100
101.00	10.30	15.19
203.00	19.50	34.36
0.00	0.00	0.00

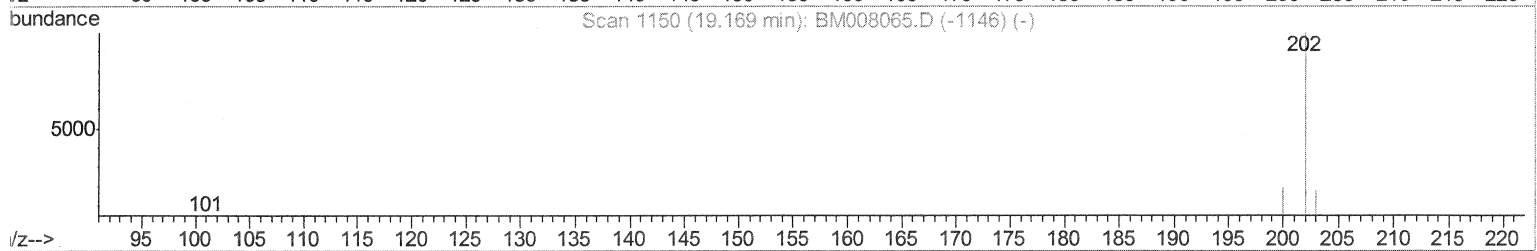
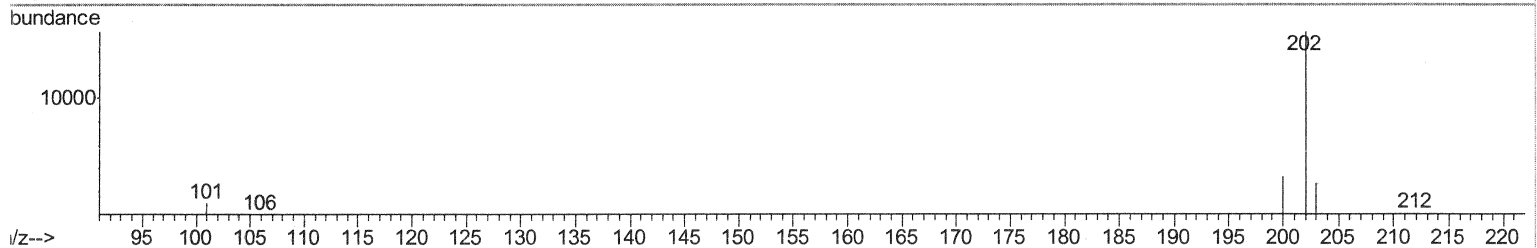
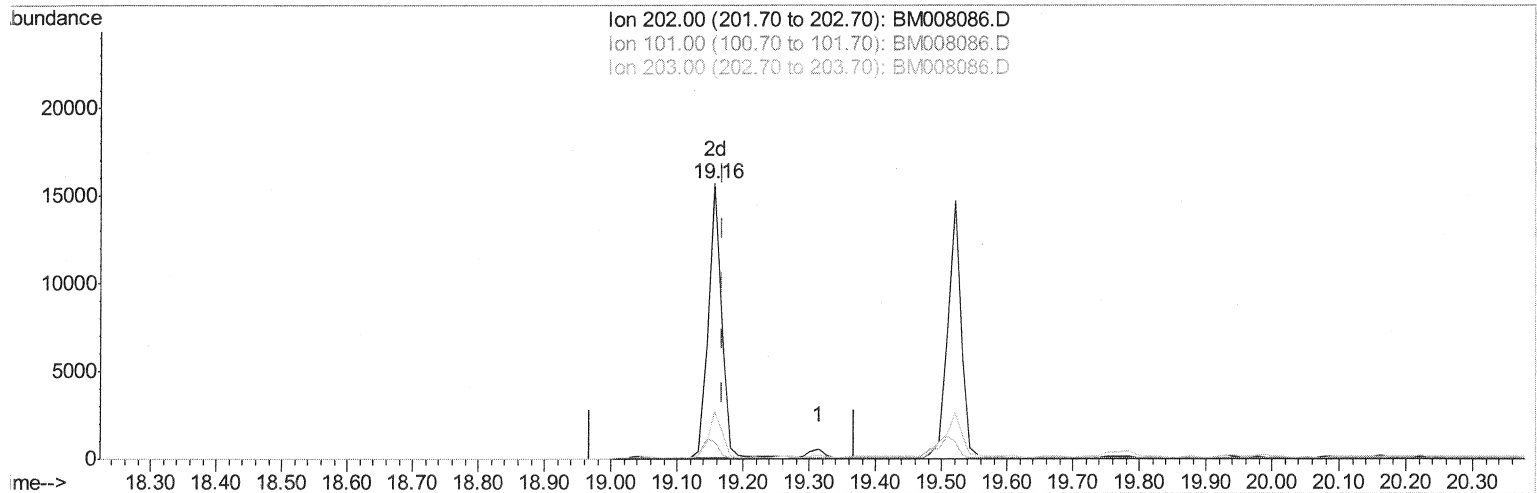
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

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Quant Time: Nov 28 15:35:15 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration



TIC: BM008086.D

(15) Fluoranthene (C)

19.157min (-0.012) 1.80ng/ul m

51 11/29/16

response 21495

Ion	Exp%	Act%
202.00	100	100
101.00	10.30	6.28
203.00	19.50	17.45
0.00	0.00	0.00

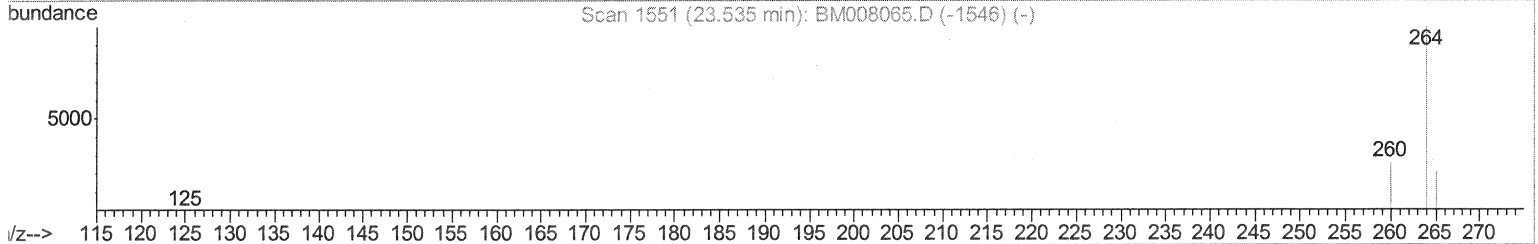
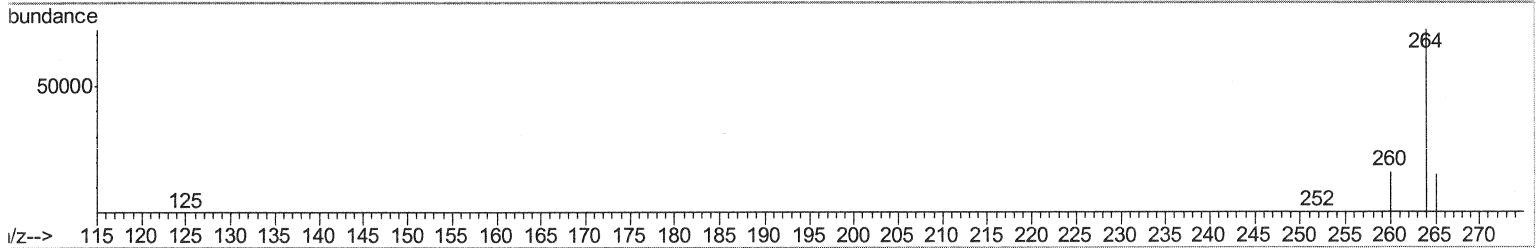
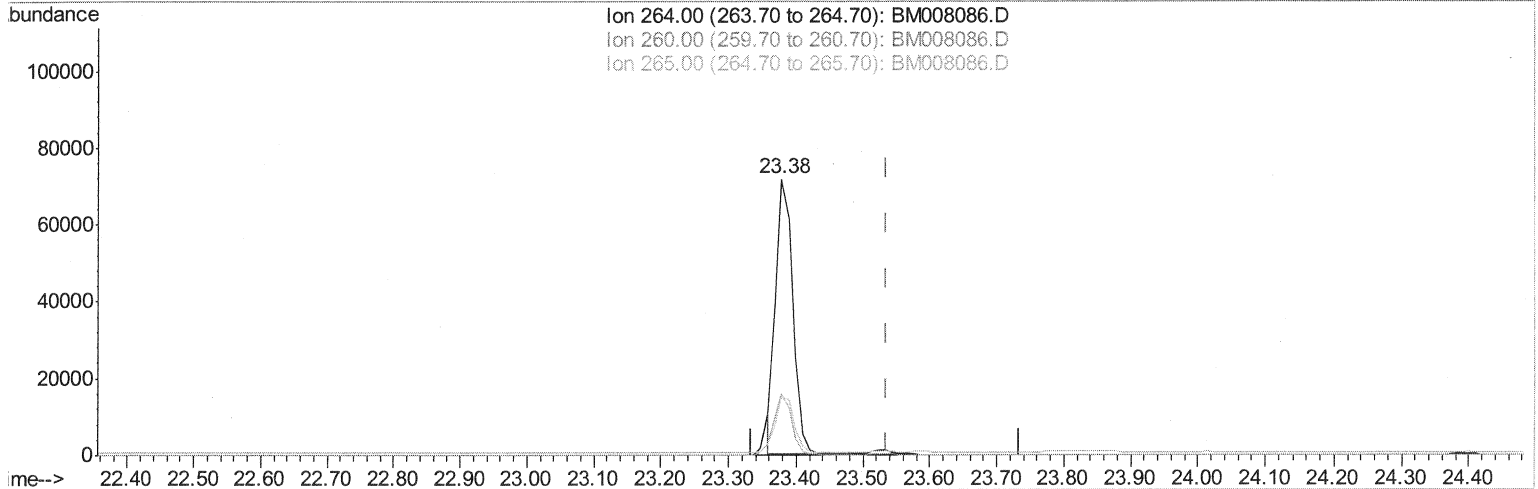
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
 Data File : BM008086.D
 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
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TIC: BM008086.D

(20) Perylene-d12 (I)
 23.378min (-0.156) 0.40ng/ul
 response 128093

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	22.38#
265.00	103.50	21.33#
0.00	0.00	0.00

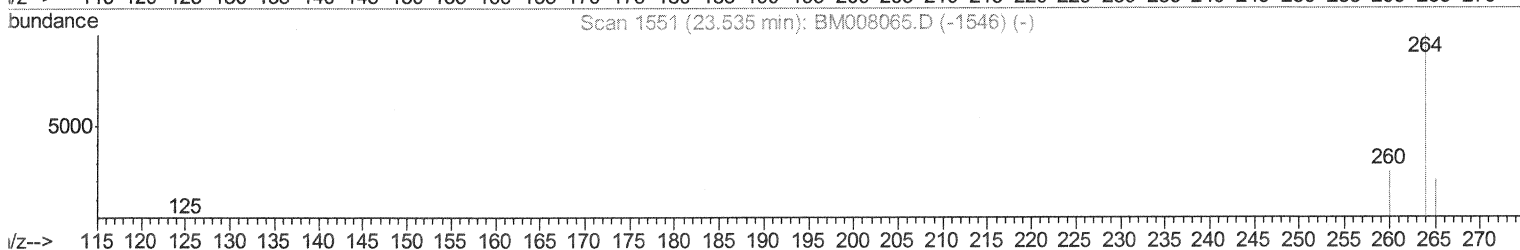
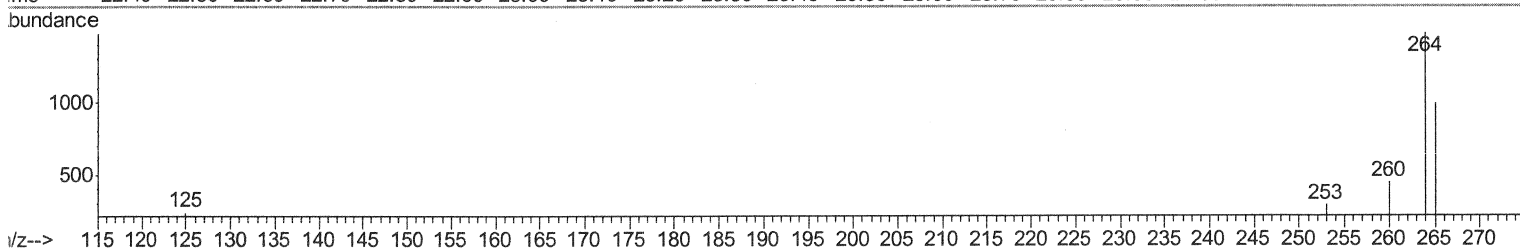
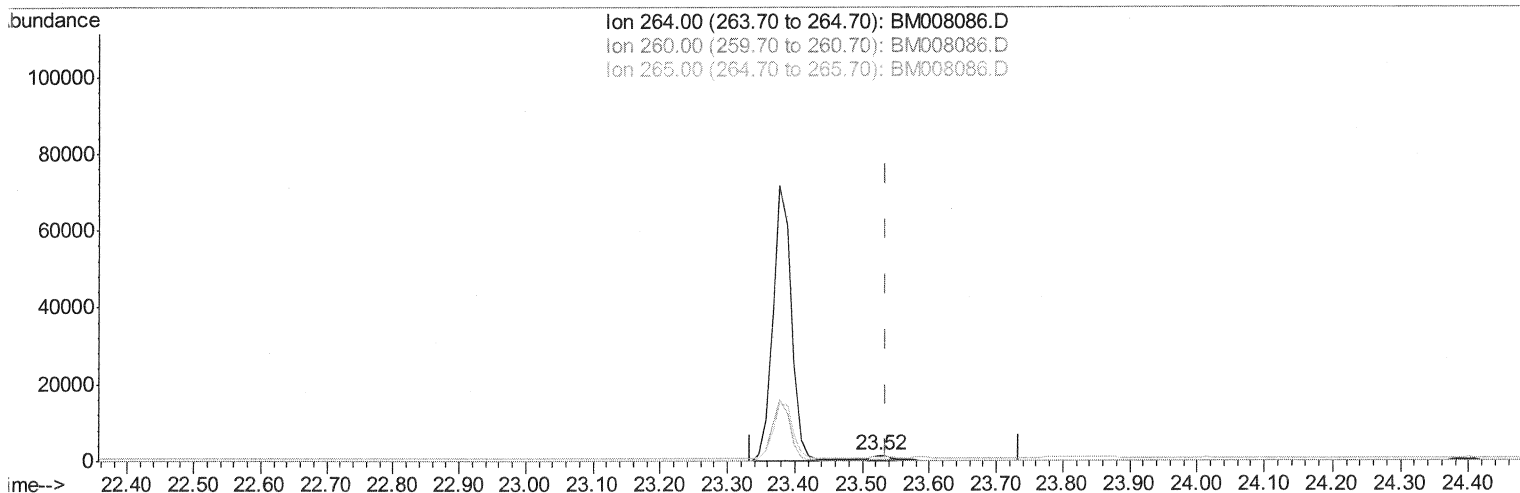
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
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UMANGI
11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:35:15 2016
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration



TIC: BM008086.D

(20) Perylene-d12 (I)

23.524min (-0.010) 0.40ng/ul m

SJ 11/29/16

response 2413

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	30.06
265.00	103.50	67.43#
0.00	0.00	0.00

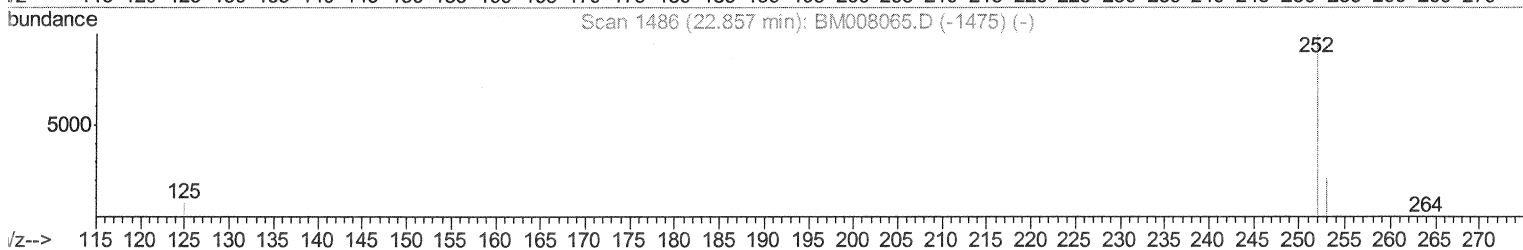
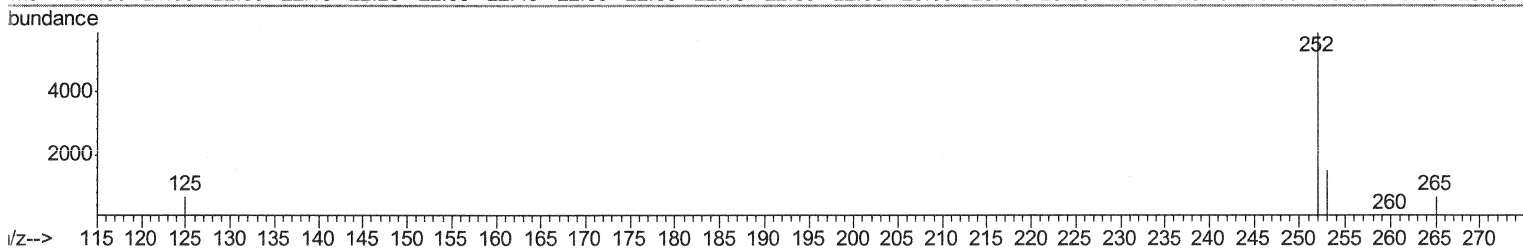
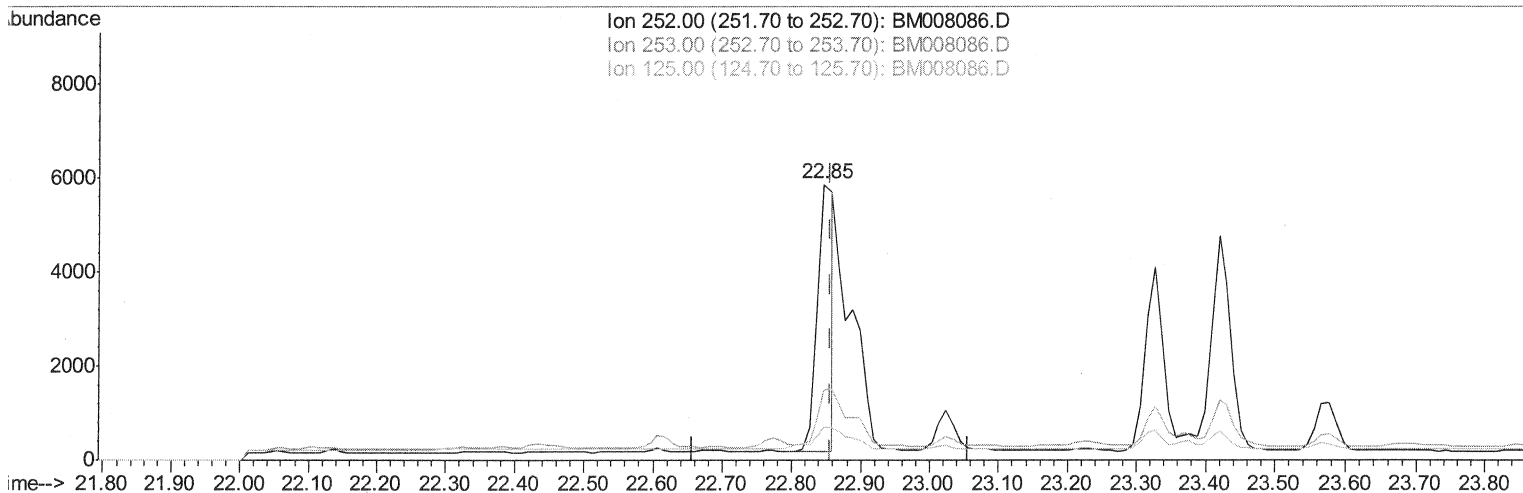
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

UMANGI
11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration



TIC: BM008086.D

(21) Benzo(b)fluoranthene

22.847min (-0.010) 0.94ng/ul

response 9054

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	25.43
125.00	17.50	11.78
0.00	0.00	0.00

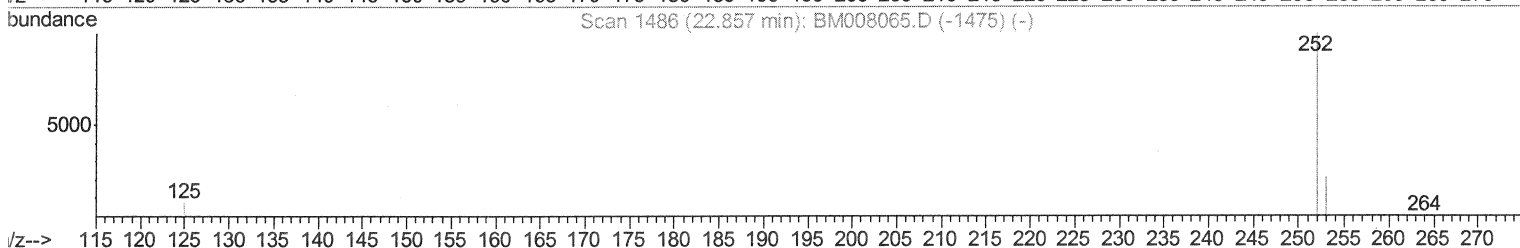
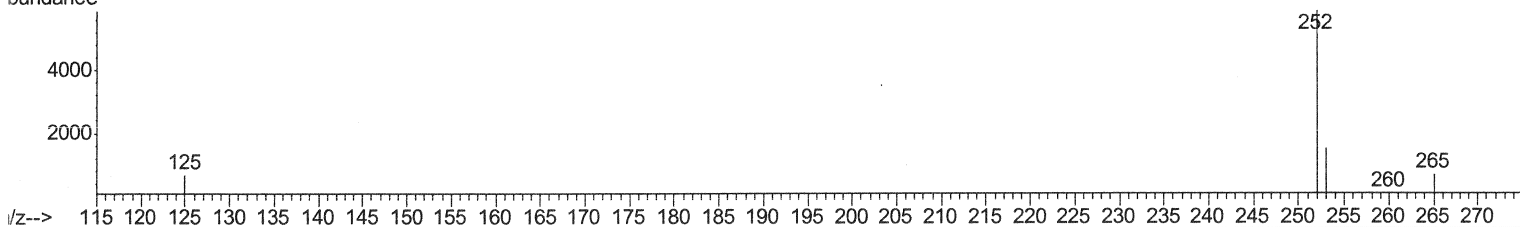
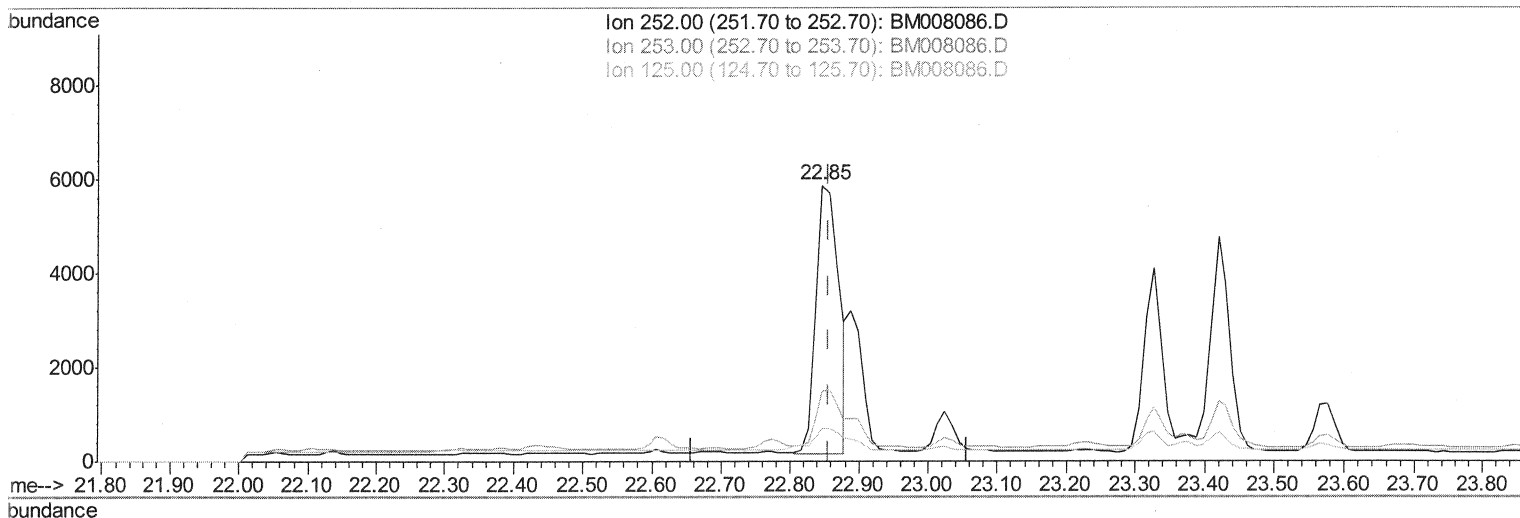
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

UMANGI
11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
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TIC: BM008086.D

(21) Benzo(b)fluoranthene

22.847min (-0.010) 1.39ng/ul m

SJ 11/29/16

response 13375

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	25.43
125.00	17.50	11.78
0.00	0.00	0.00

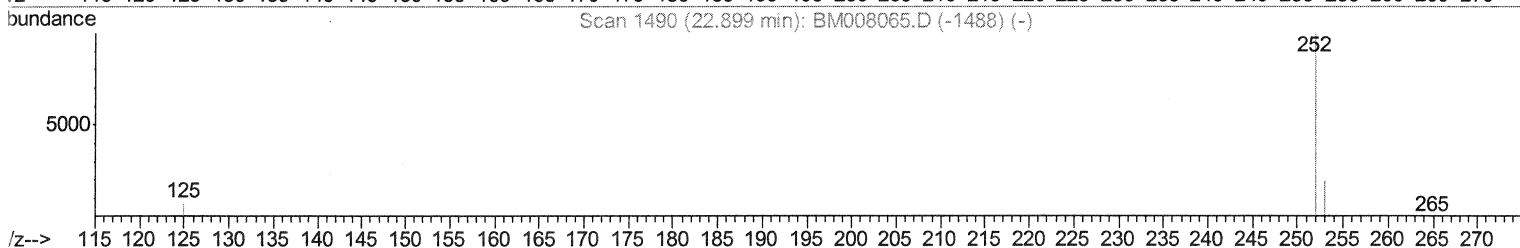
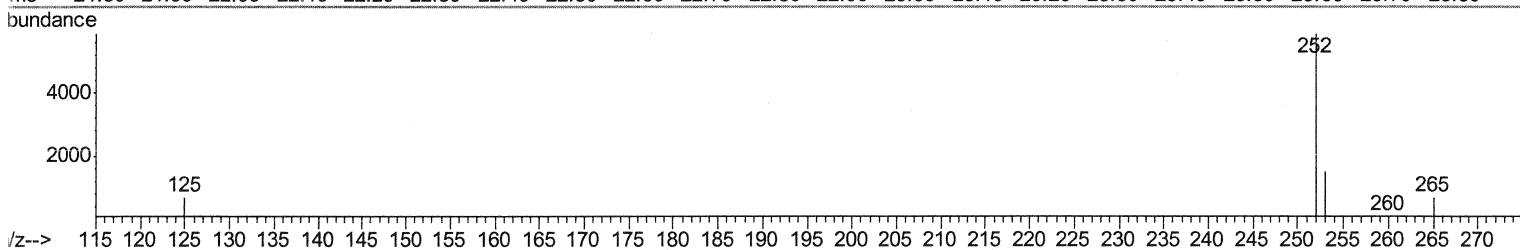
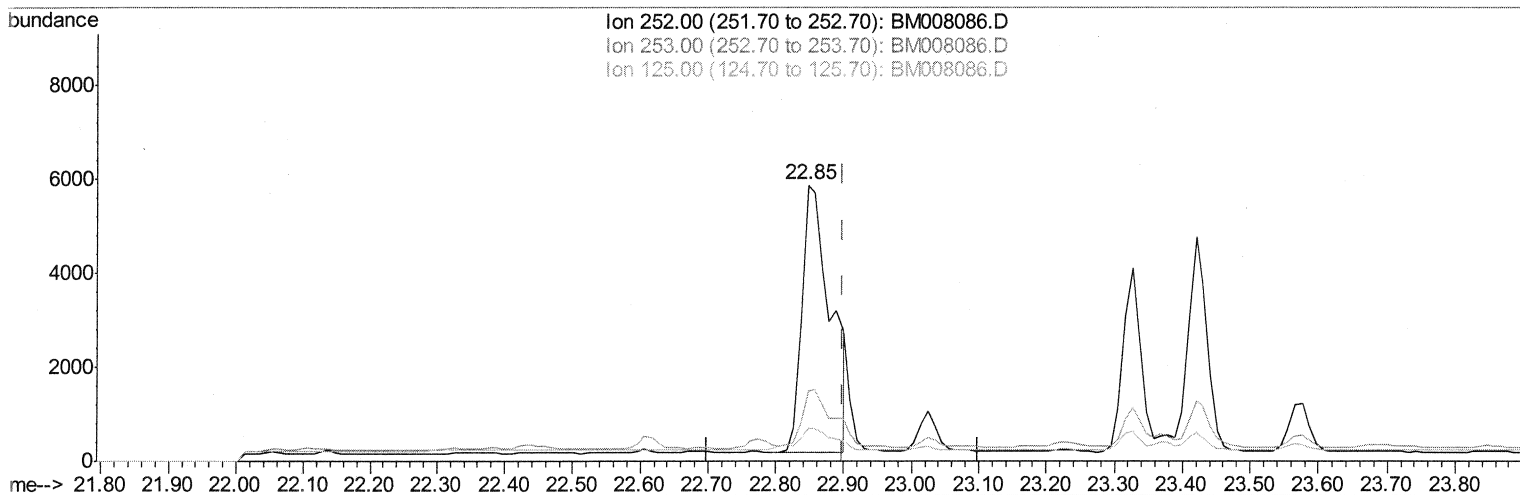
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008086.D
Acq On : 28 Nov 2016 14:52
Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

UMANGI
11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration



TIC: BM008086.D

(22) Benzo(k)fluoranthene

22.847min (-0.052) 1.68ng/ul

response 16702

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	25.43
125.00	17.10	11.78#
0.00	0.00	0.00

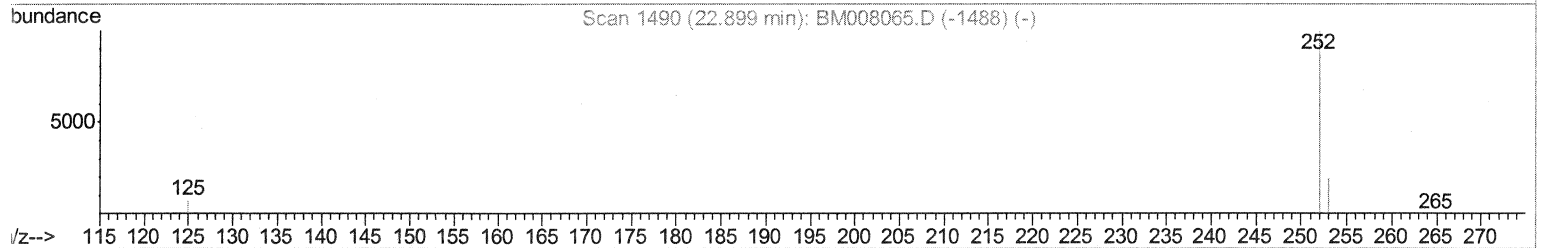
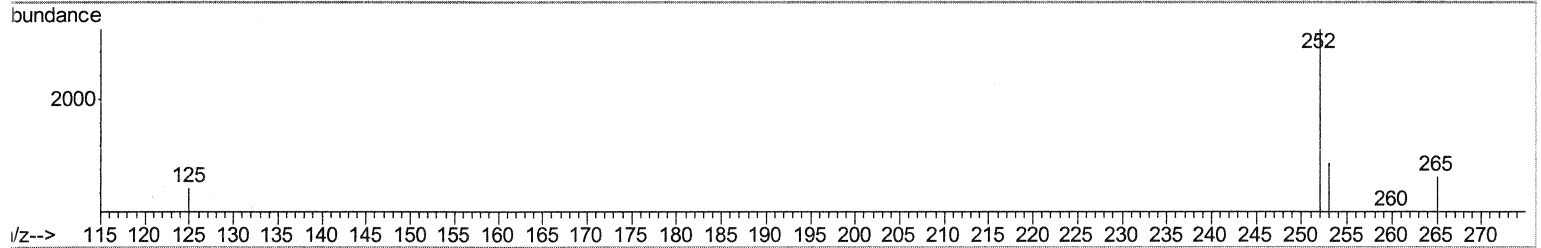
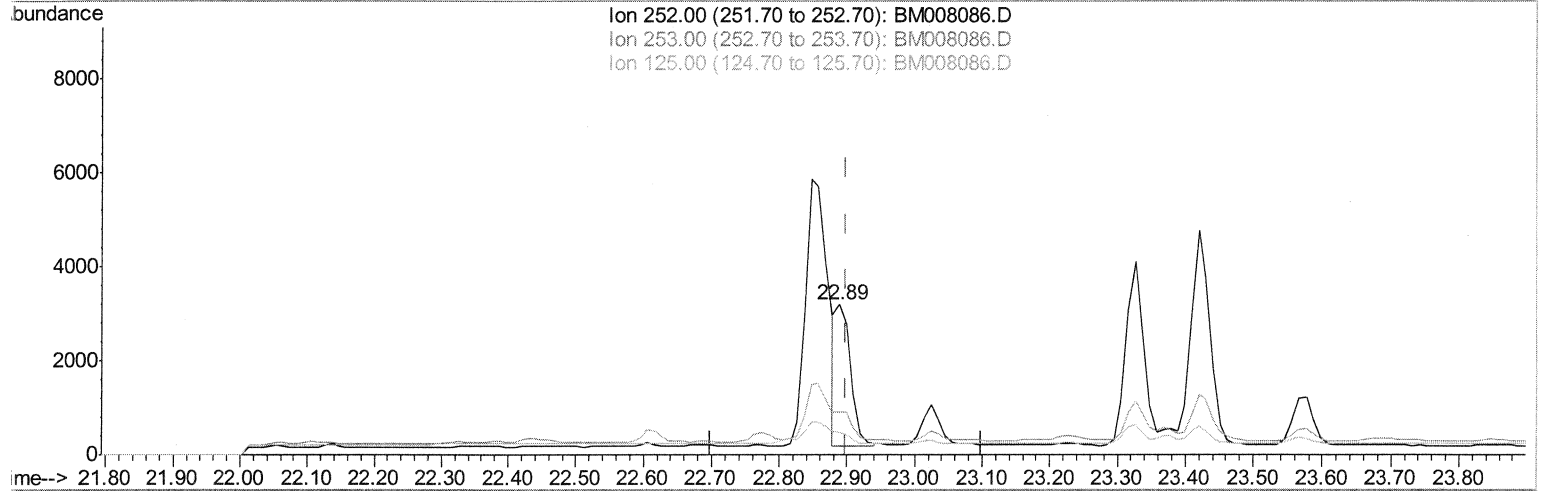
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
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 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 28 14:45:16 2016
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.888min (-0.010) 0.45ng/ul m

SJ 11/29/16

response 4467

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	28.75
125.00	17.10	15.38
0.00	0.00	0.00

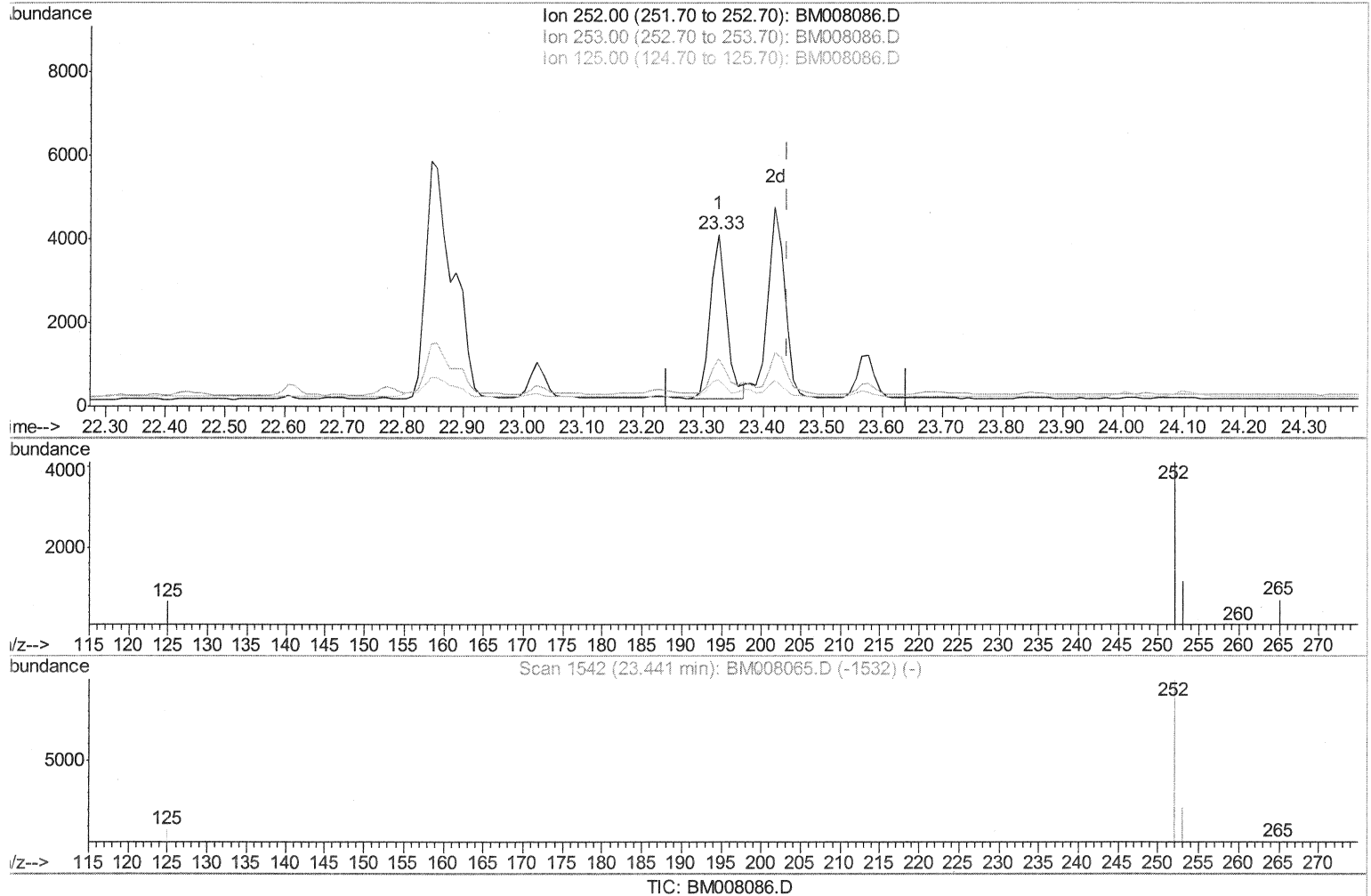
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Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WG0

Manual Integrations
APPROVED

UMANGI
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(23) Benzo(a)pyrene (C)

23.326min (-0.115) 0.82ng/ul

response 7390

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	28.16#
125.00	22.60	15.84#
0.00	0.00	0.00

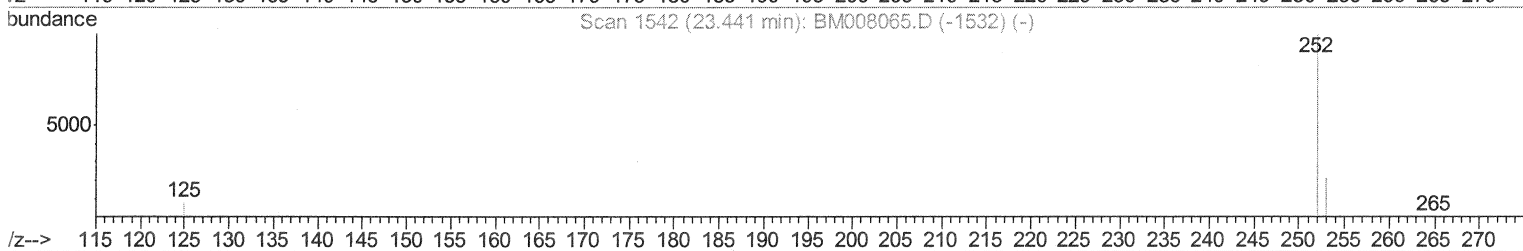
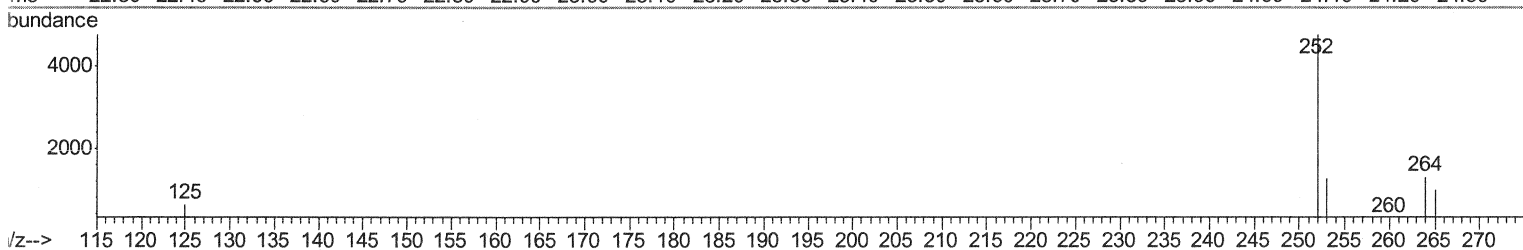
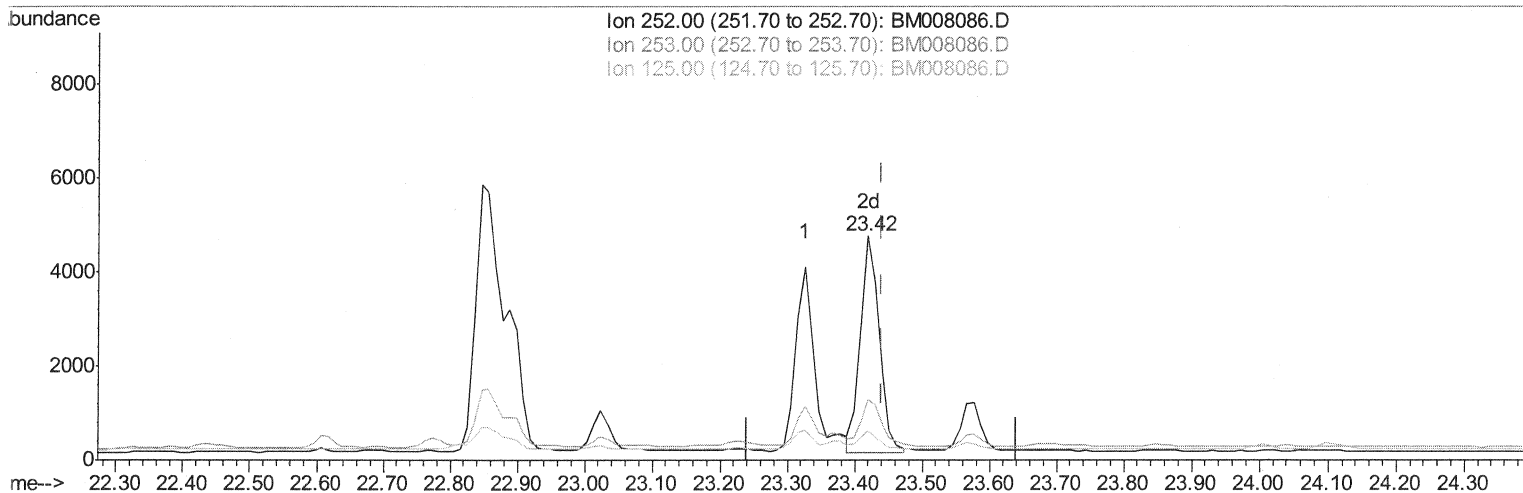
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Operator : UM/SJ
Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
A4WG0

Manual Integrations
APPROVED

UMANGI
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TIC: BM008086.D

(23) Benzo(a)pyrene (C)

23.420min (-0.021) 0.99ng/ul m

SJ 11/29/16

response 8950

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	26.58#
125.00	22.60	13.12#
0.00	0.00	0.00

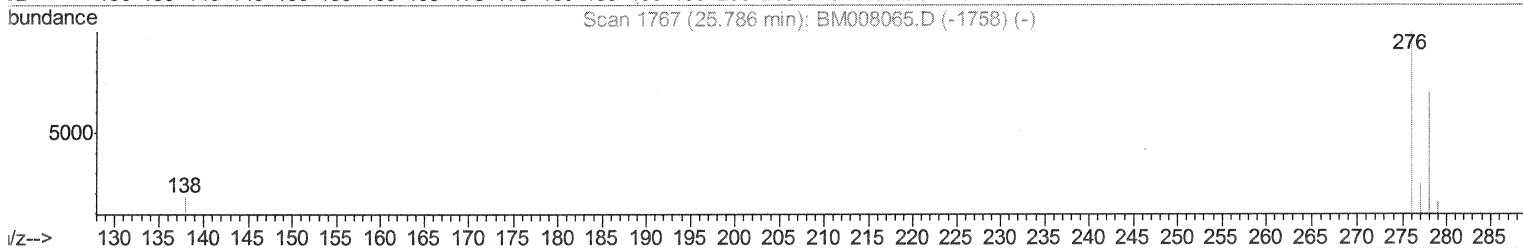
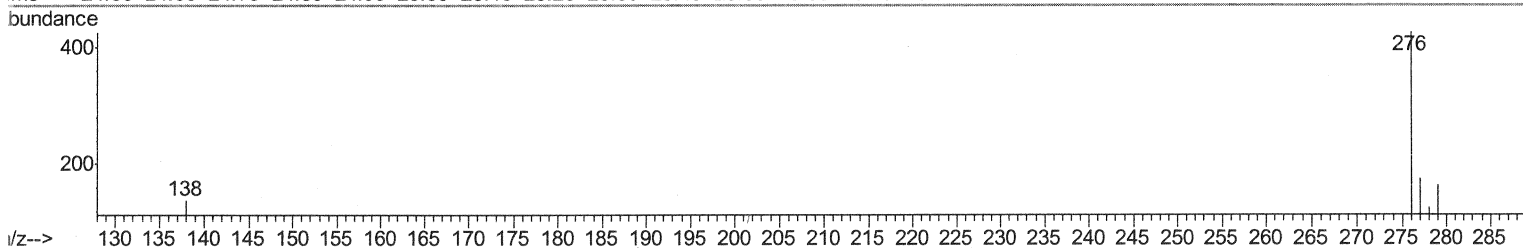
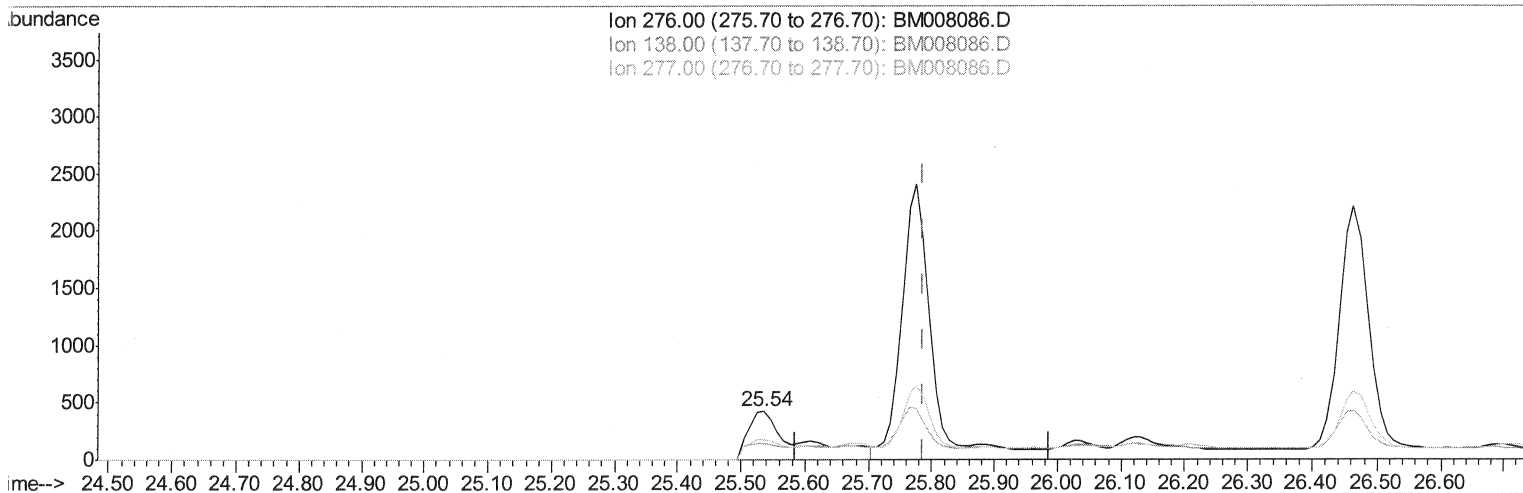
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Sample : H5701-23
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
A4WG0

Manual Integrations
APPROVED

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TIC: BM008086.D

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

25.536min (-0.250) 0.21ng/ui

response 2375

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	65.22#
277.00	24.50	51.79#
0.00	0.00	0.00

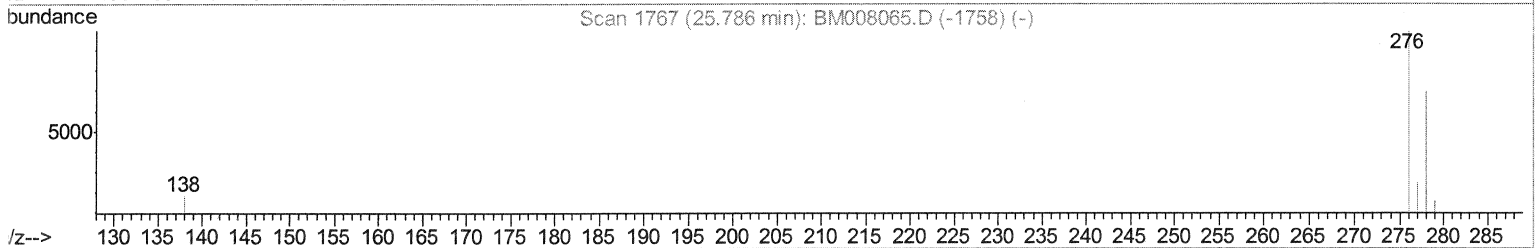
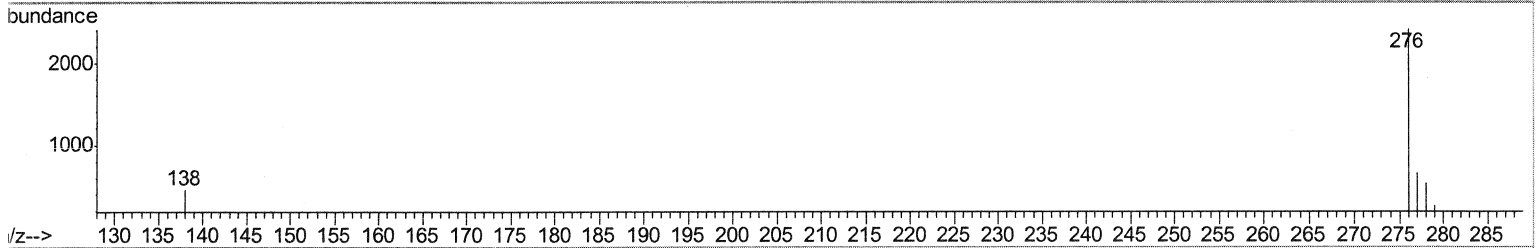
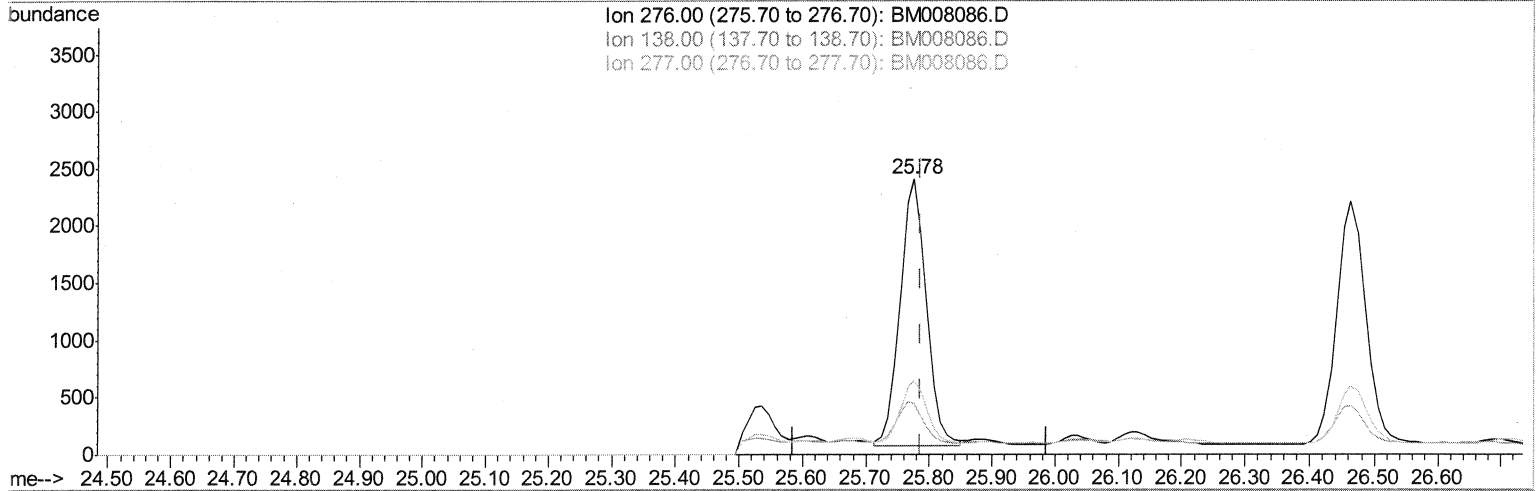
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 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 28 14:45:16 2016
 Response via : Initial Calibration



TIC: BM008086.D

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

25.776min (-0.010) 0.60ng/ul m

53 11/29/16

response 6731

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	23.01
277.00	24.50	18.27#
0.00	0.00	0.00

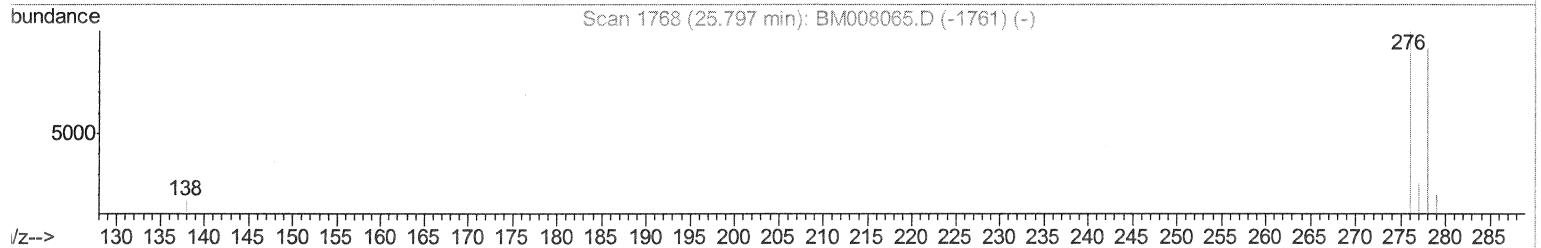
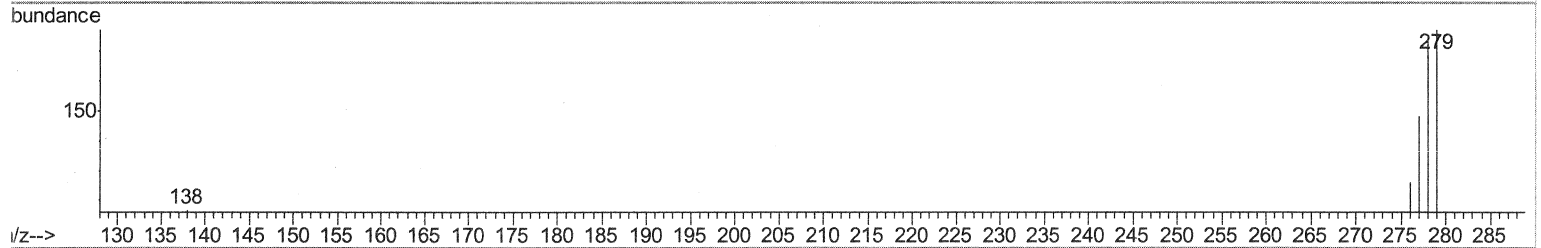
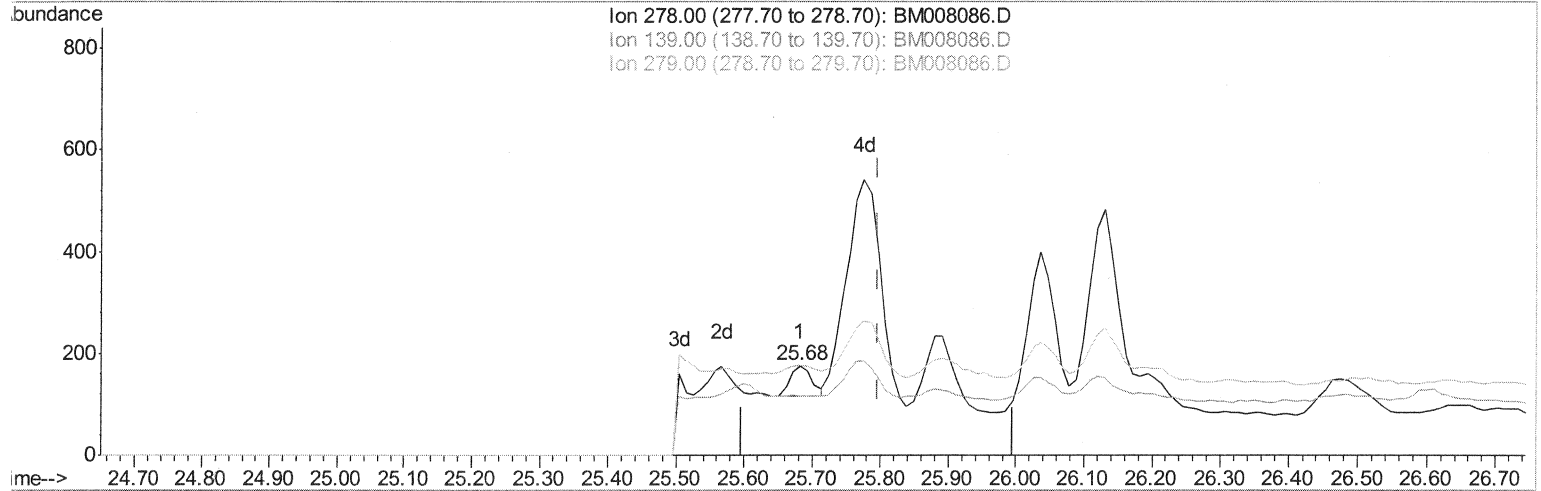
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
 Data File : BM008086.D
 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 28 14:45:16 2016
 Response via : Initial Calibration



TIC: BM008086.D

(25) Dibenzo(a,h)anthracene

25.682min (-0.115) 0.01ng/ul

response 128

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	66.29#
279.00	32.40	101.14#
0.00	0.00	0.00

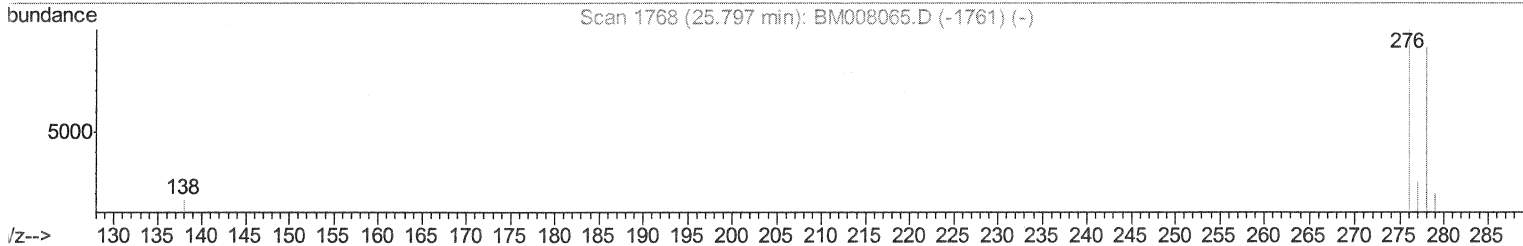
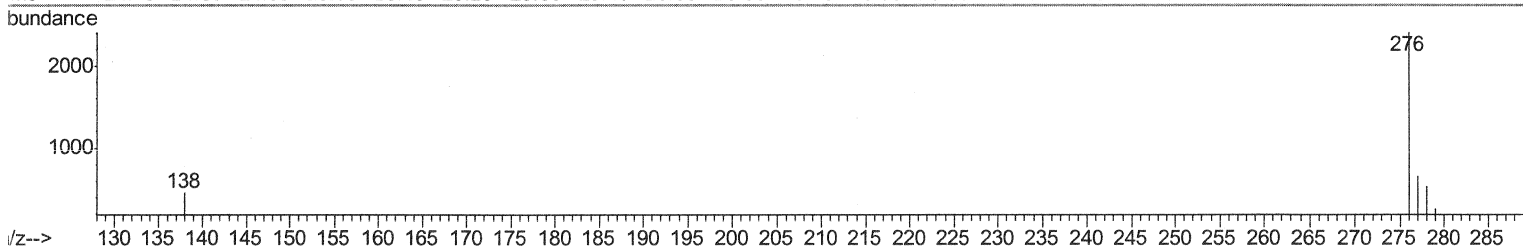
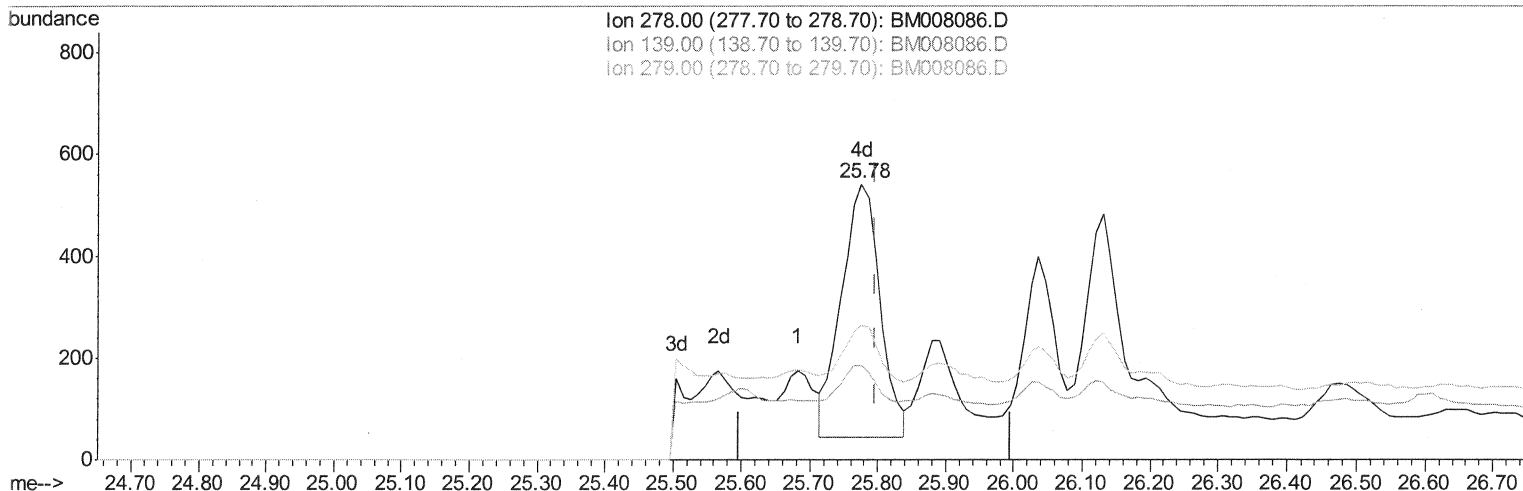
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
 Data File : BM008086.D
 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 28 14:45:16 2016
 Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

25.776min (-0.021) 0.22ng/ul m

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response 1955

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	33.95#
279.00	32.40	48.52#
0.00	0.00	0.00

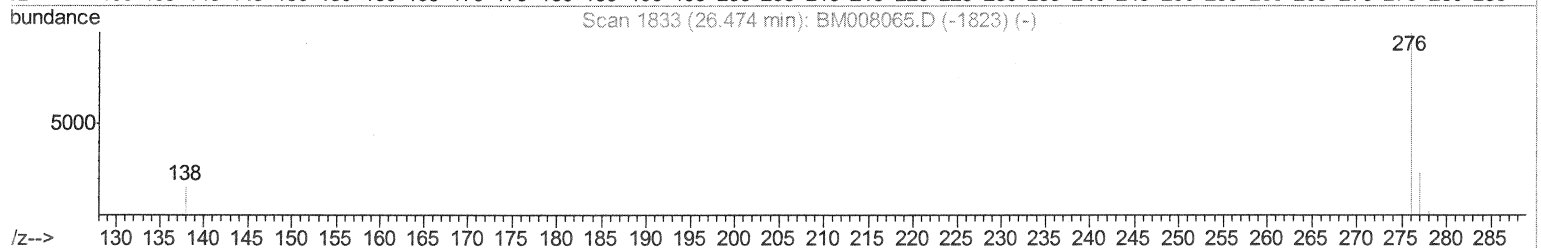
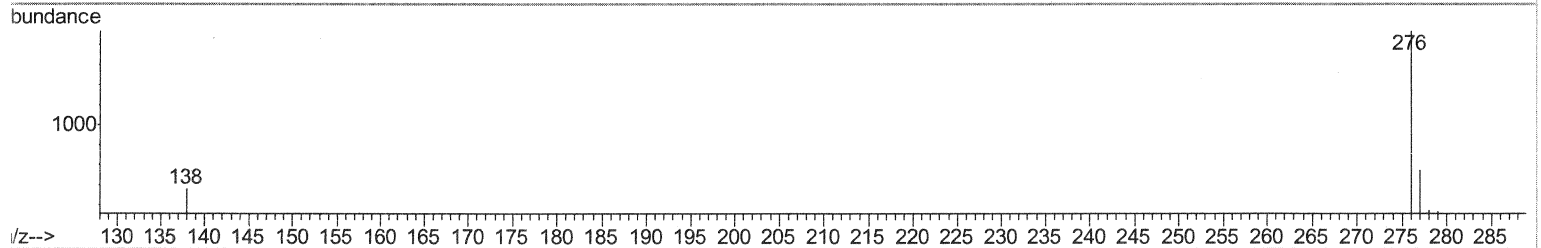
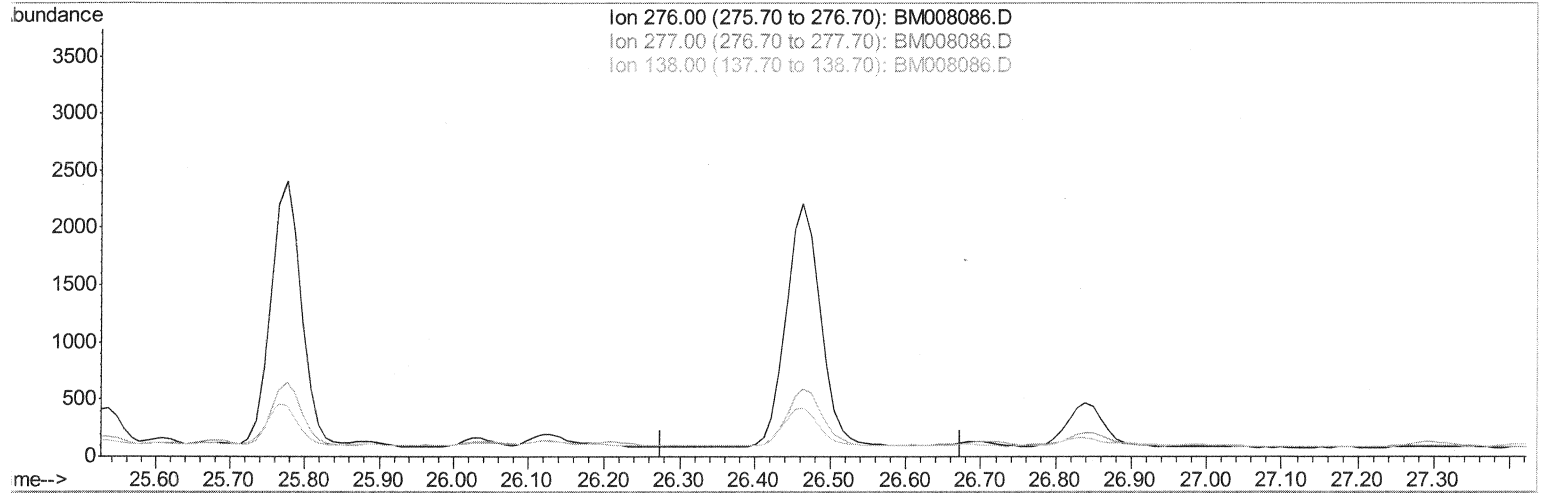
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
 Data File : BM008086.D
 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 28 14:45:16 2016
 Response via : Initial Calibration



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

26.474min (-26.474) 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

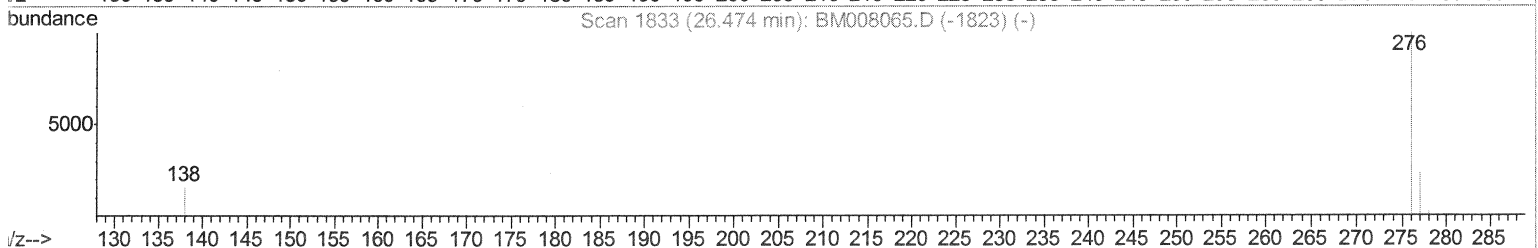
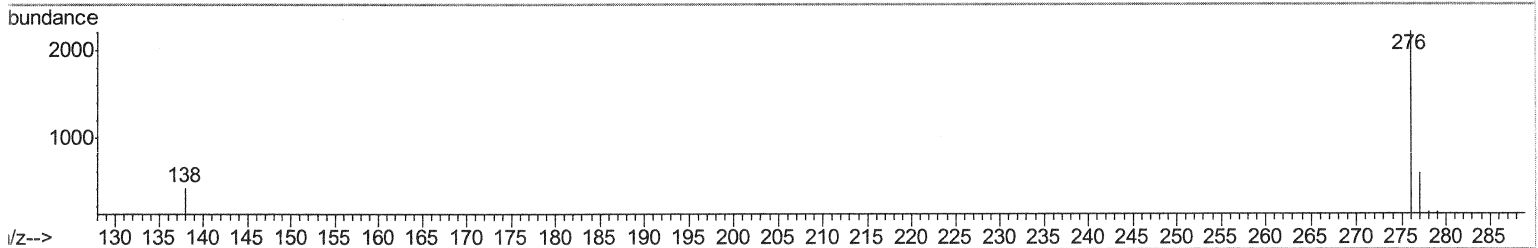
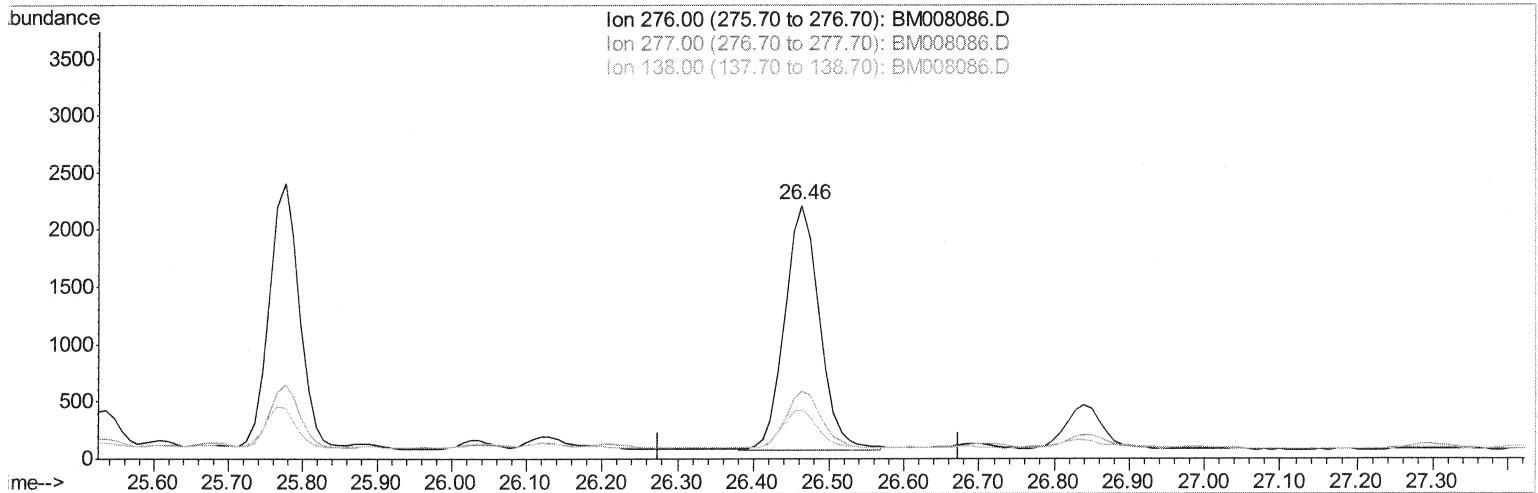
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
 Data File : BM008086.D
 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:36:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
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 Response via : Initial Calibration



TIC: BM008086.D

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

26.464min (-0.010) 0.69ng/ul m

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response 6874

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	26.69
138.00	25.60	19.07#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
 Data File : BM008086.D
 Acq On : 28 Nov 2016 14:52
 Operator : UM/SJ
 Sample : H5701-23
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WG0

Manual Integrations
 APPROVED

UMANGI
 11/29/2016 2:22:35 PM

Quant Time: Nov 28 15:39:50 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 28 14:45:16 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	672	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.49	136	2302	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.35	164	1395	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.09	188	2974m	0.40	ng/ul	-0.02
16) Chrysene-d12	21.29	240	2779	0.40	ng/ul	0.00
20) Perylene-d12	23.52	264	2413m	0.40	ng/ul	-0.01

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.10	152	826	0.25	ng/ul	0.00
14) Fluoranthene-d10	19.13	212	1855	0.22	ng/ul	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.54	128	221	0.03	ng/ul#	46
7) Acenaphthylene	14.06	152	1607	0.25	ng/ul	96
8) Acenaphthene	14.40	153	148	0.03	ng/ul#	90
9) Fluorene	15.39	166	345	0.06	ng/ul#	78
12) Phenanthrene	17.12	178	8577	0.93	ng/ul	97
13) Anthracene	17.23	178	1783	0.21	ng/ul#	93
15) Fluoranthene	19.16	202	21495m	1.80	ng/ul	
17) Pyrene	19.52	202	20765	2.15	ng/ul	96
18) Benzo(a)anthracene	21.27	228	8941	1.05	ng/ul	97
19) Chrysene	21.32	228	9977	0.94	ng/ul	99
21) Benzo(b)fluoranthene	22.85	252	13375m	1.39	ng/ul	
22) Benzo(k)fluoranthene	22.89	252	4467m	0.45	ng/ul	
23) Benzo(a)pyrene	23.42	252	8950m	0.99	ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.78	276	6731m	0.60	ng/ul	
25) Dibenzo(a,h)anthracene	25.78	278	1955m	0.22	ng/ul	
26) Benzo(g,h,i)perylene	26.46	276	6874m	0.69	ng/ul	

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