

(QT Reviewed)

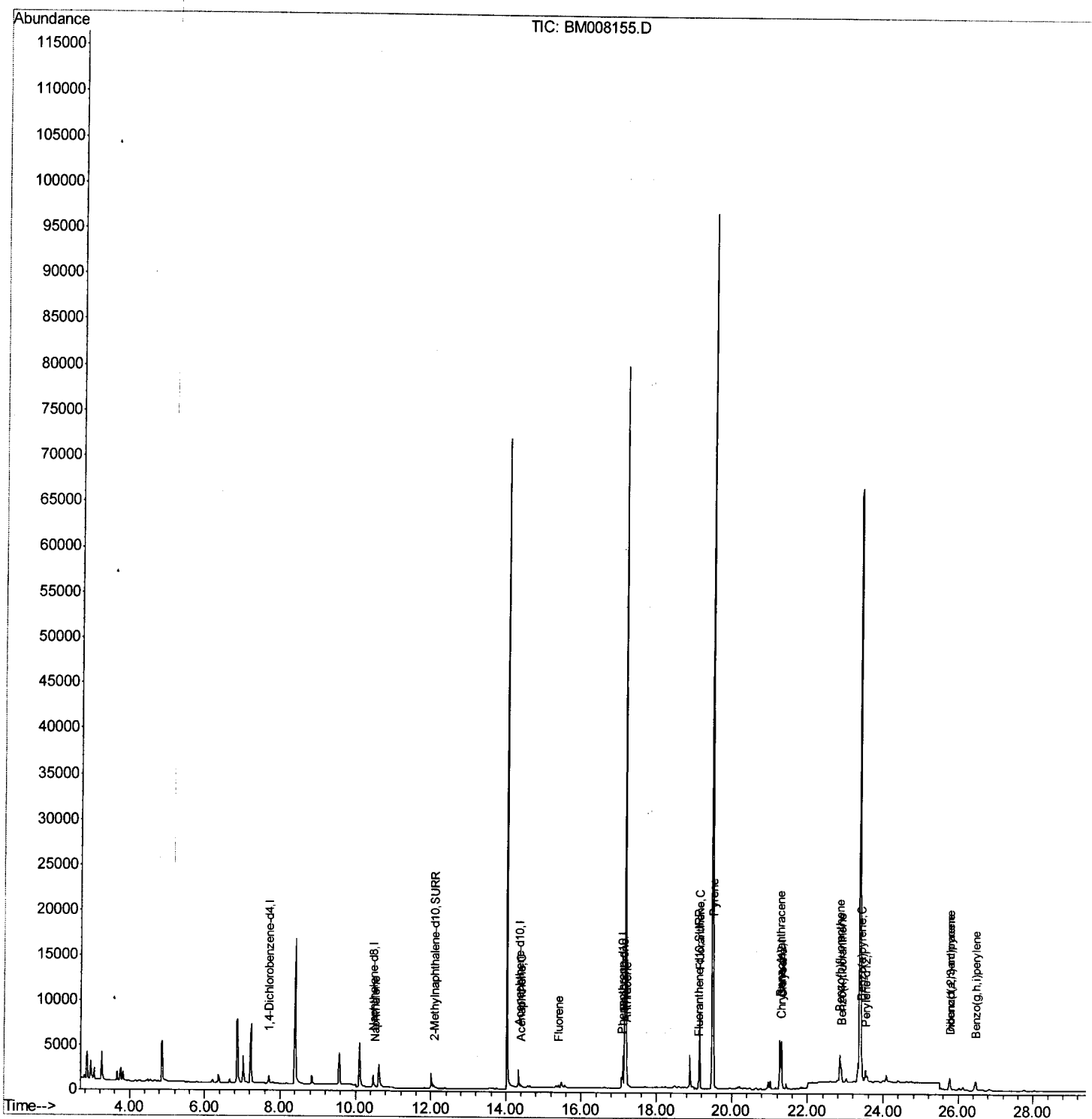
```
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\  
Data File : BM008155.D  
Acq On    : 02 Dec 2016   14:28  
Operator  : UM/SJ  
Sample    : H5730-08  
Misc      :  
ALS Vial  : 8      Sample Multiplier: 1
```

Instrument :
BNA_M
ClientSampleId :
A4WH4

Manual Integrations
APPROVED

sohil
12/5/2016 11:17:28 AM

Quant Time: Dec 02 17:37:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 02 15:28:31 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

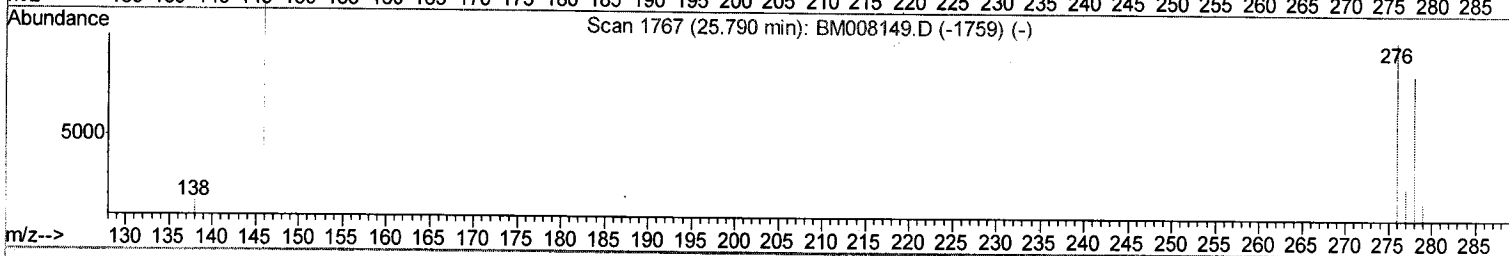
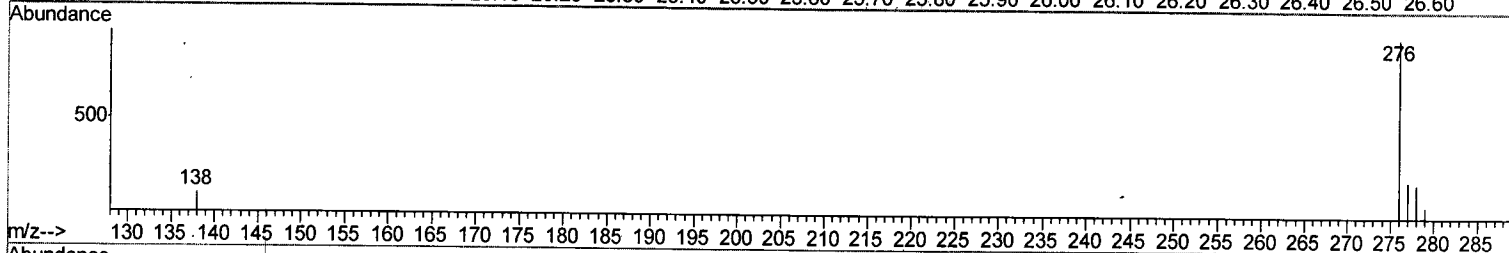
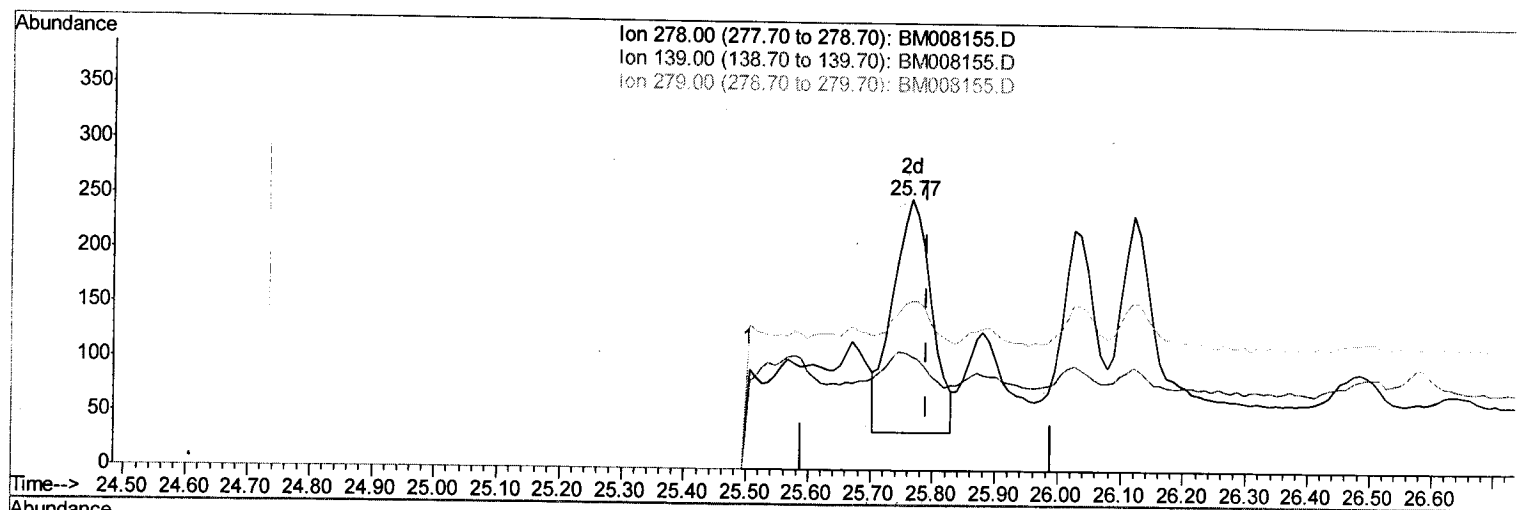
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Manual Integrations
 APPROVED

sohil
 12/5/2016 11:17:28 AM

Quant Time: Dec 02 17:36:05 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

25.765min (-0.024) 0.15ng/ul m

response 929

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	42.00#
279.00	32.40	62.40#
0.00	0.00	0.00

25.7
 12/06/16

Quantitation Report (Qedit)

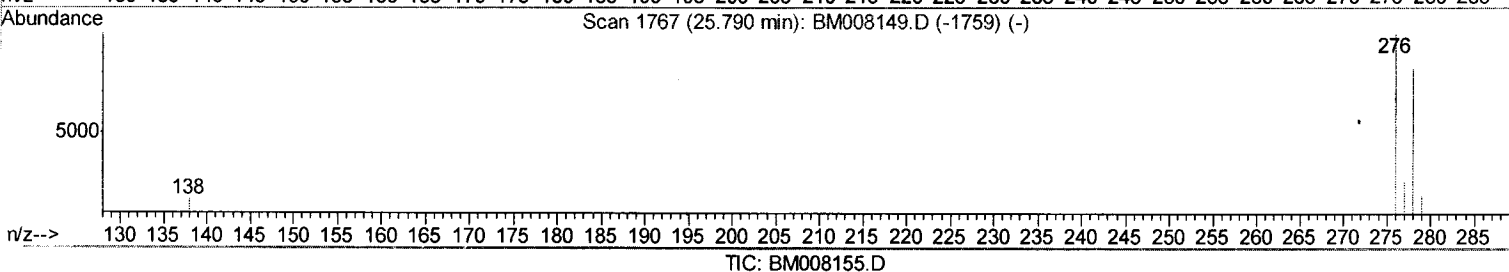
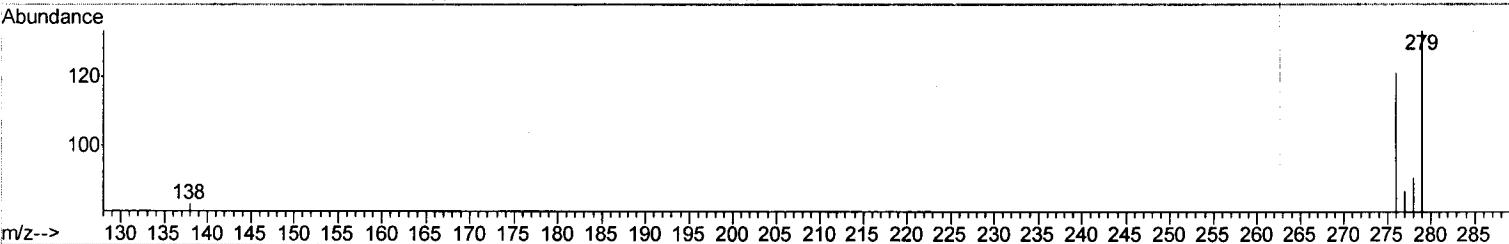
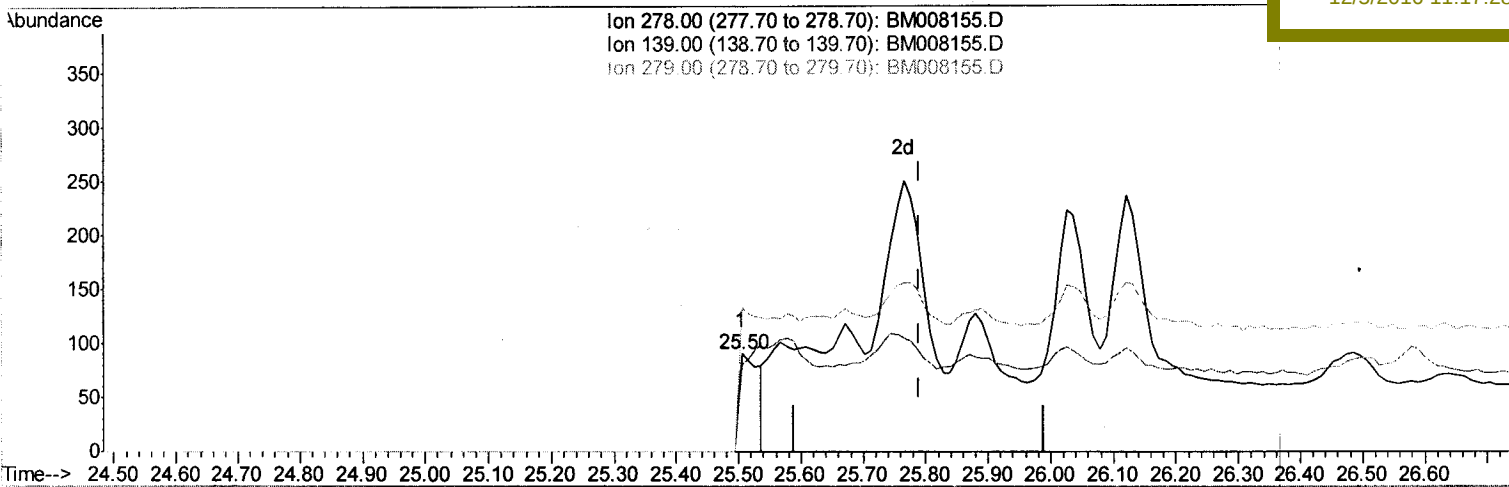
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
Data File : BM008155.D
Acq On : 02 Dec 2016 14:28
Operator : UM/SJ
Sample : H5730-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WH4

Manual Integrations
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Quant Time: Dec 02 17:36:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 02 15:28:31 2016
Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

25.505min (-0.285) 0.03ng/ul

response 209

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	89.01#
279.00	32.40	146.15#
0.00	0.00	0.00

Quantitation Report (Qedit)

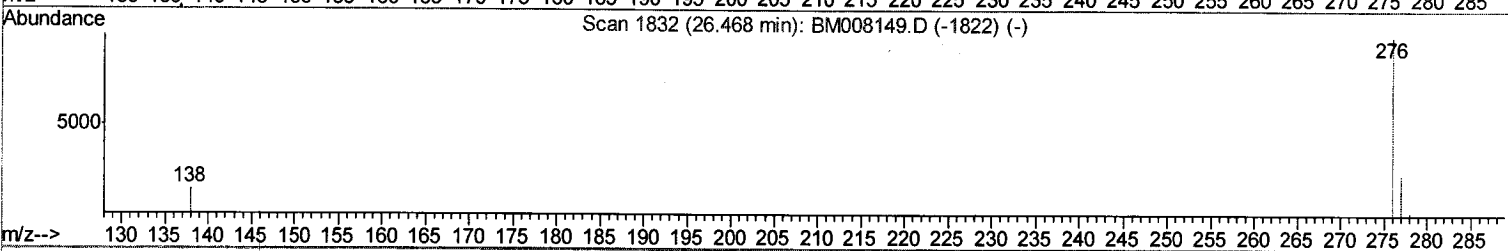
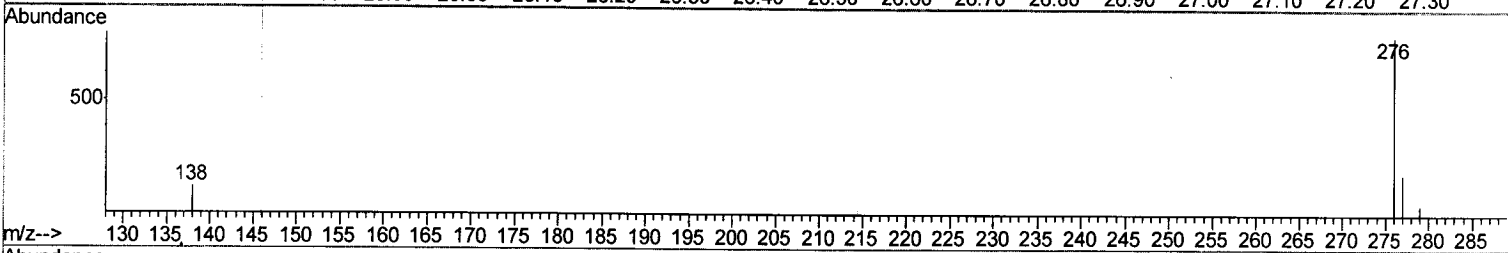
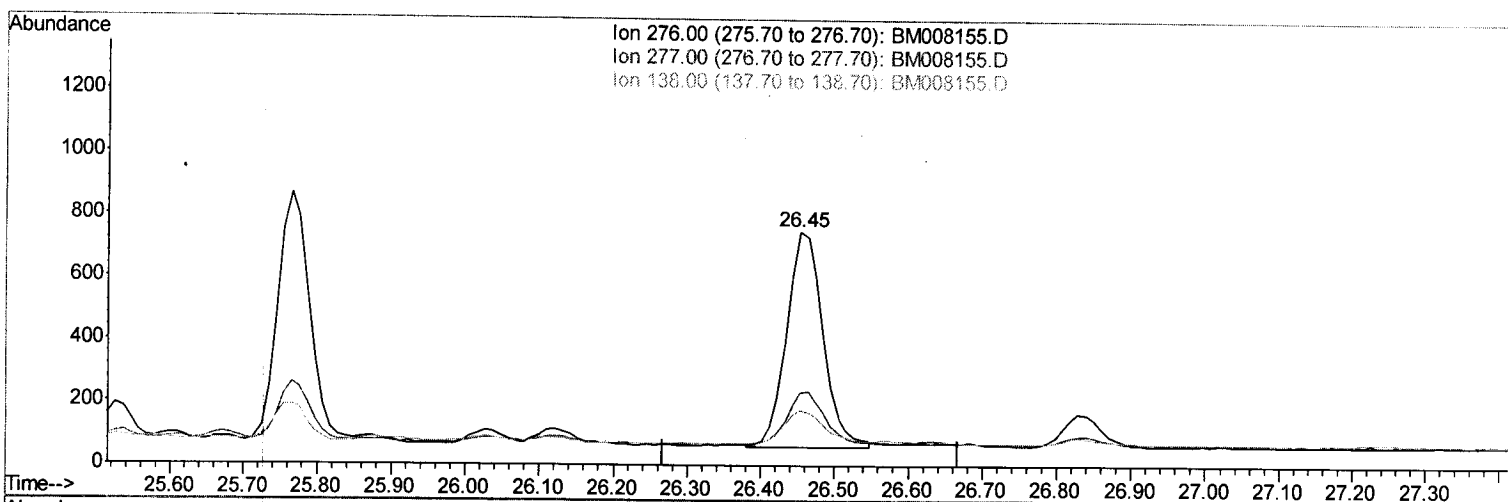
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Manual Integrations
 APPROVED

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 12/5/2016 11:17:28 AM

Quant Time: Dec 02 17:33:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration



TIC: BM008155.D

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

26.453min (-0.014) 0.34ng/ul m

response 2352

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	30.84
138.00	25.60	23.63
0.00	0.00	0.00

> 9.5
 12/06/16

Quantitation Report (Qedit)

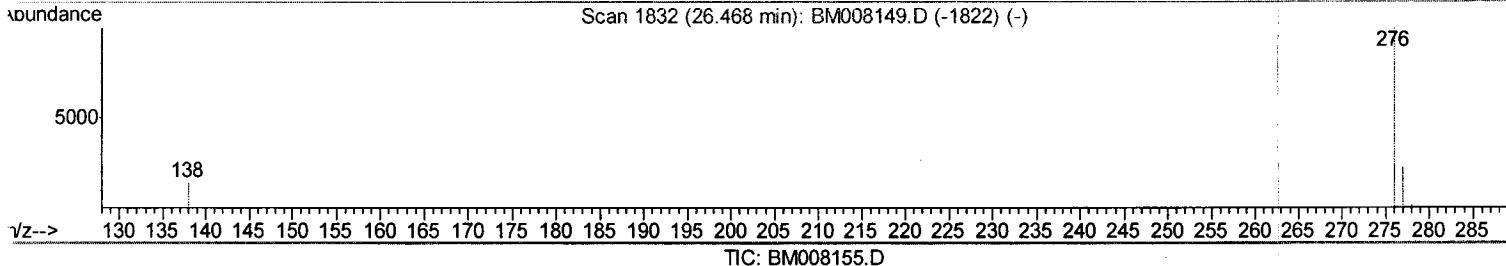
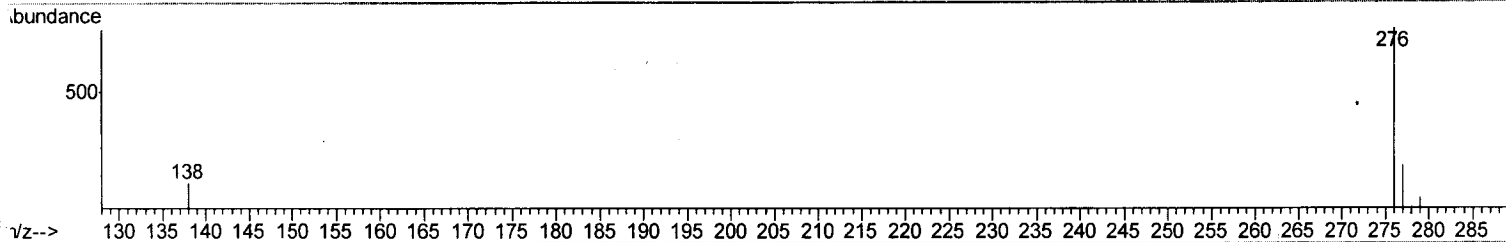
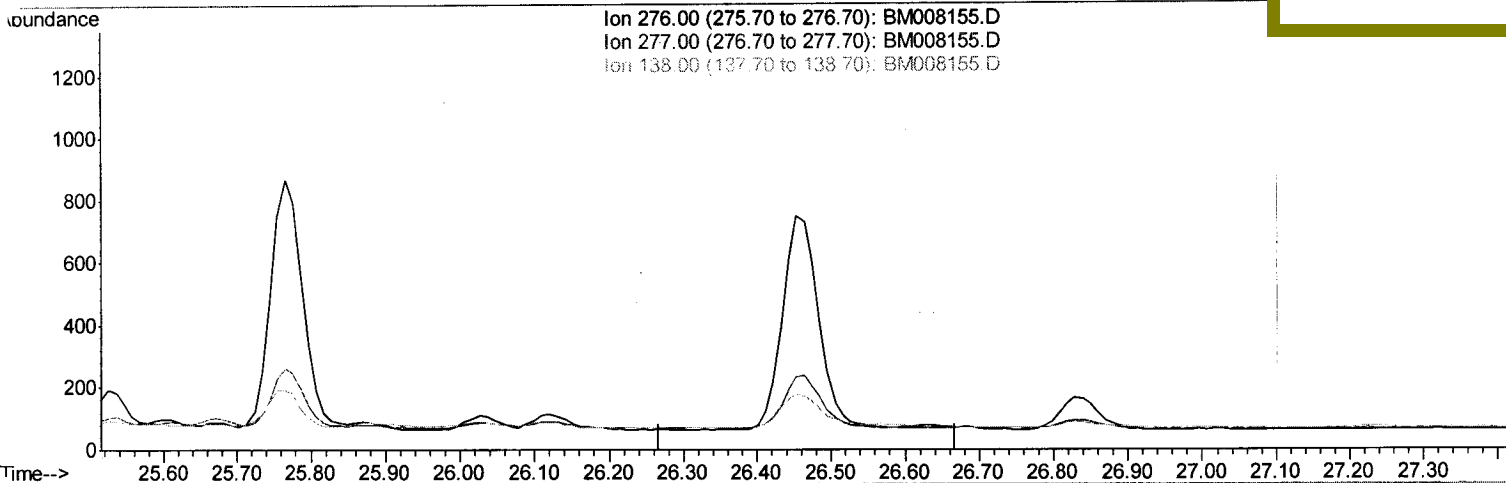
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Quant Time: Dec 02 17:33:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration

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

26.468min (-26.468) 0.00ng/ui

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

Quantitation Report (Qedit)

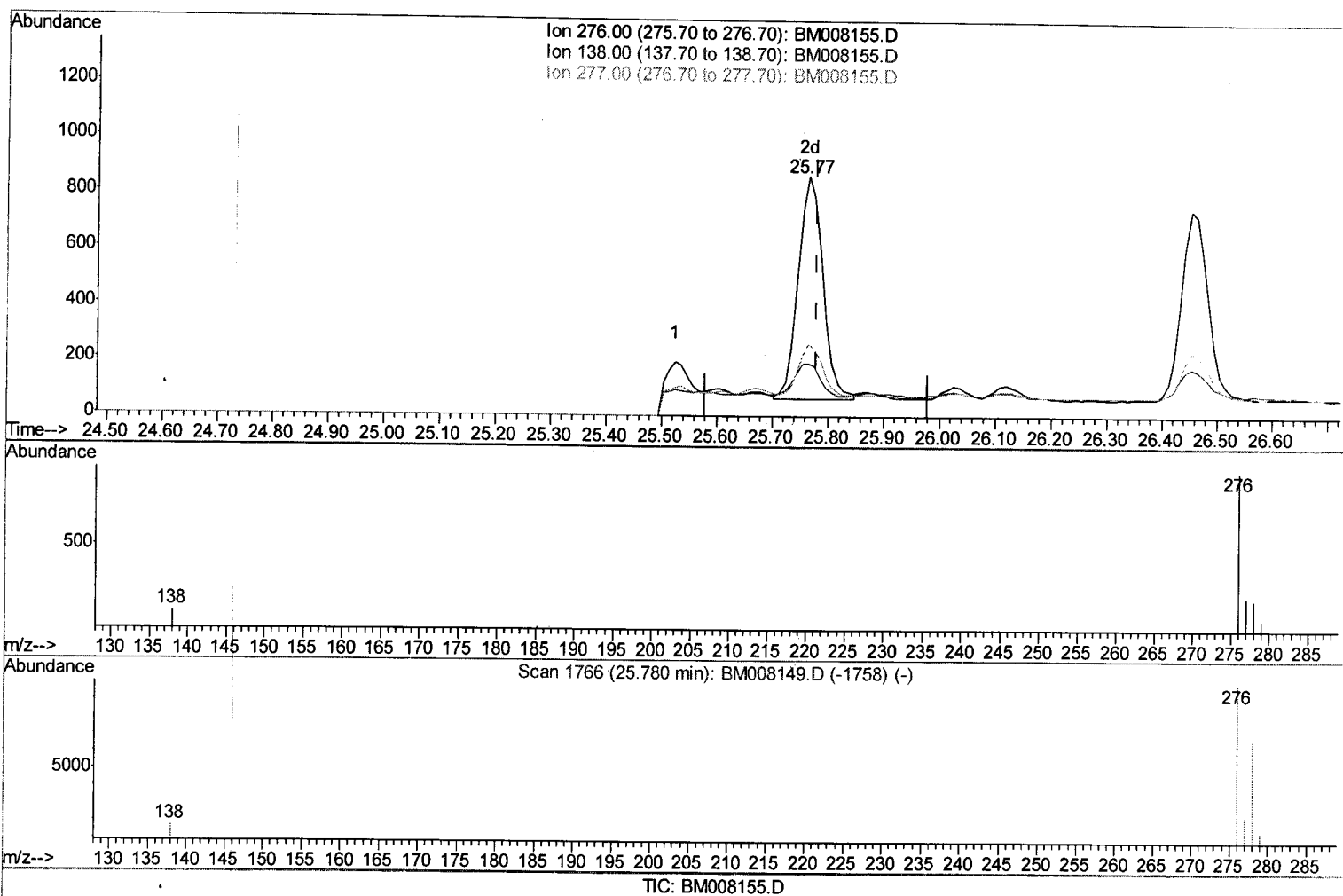
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Manual Integrations
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Quant Time: Dec 02 17:33:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
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(24) Indeno(1,2,3-cd)pyrene

25.765min (-0.014) 0.32ng/ul m

response 2473

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	42.09#
277.00	24.50	47.84#
0.00	0.00	0.00

> 9-7
 12/06/16

Quantitation Report (Qedit)

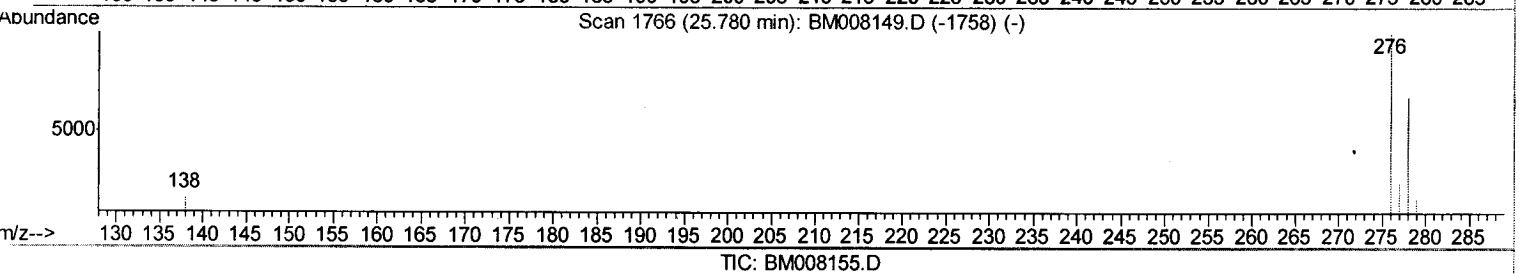
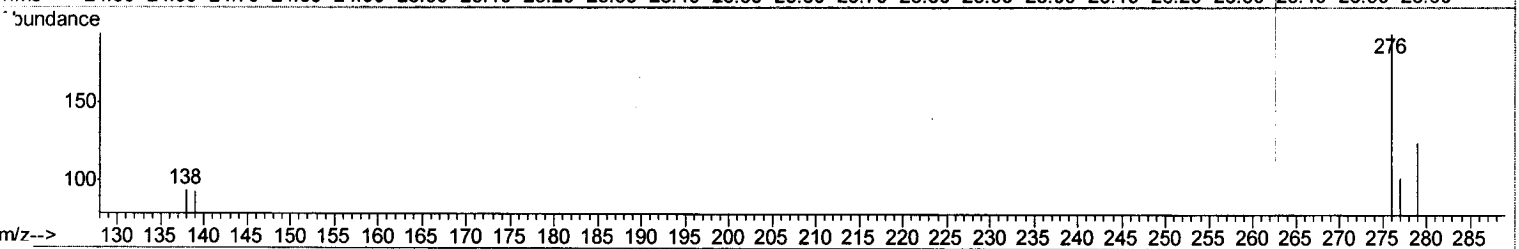
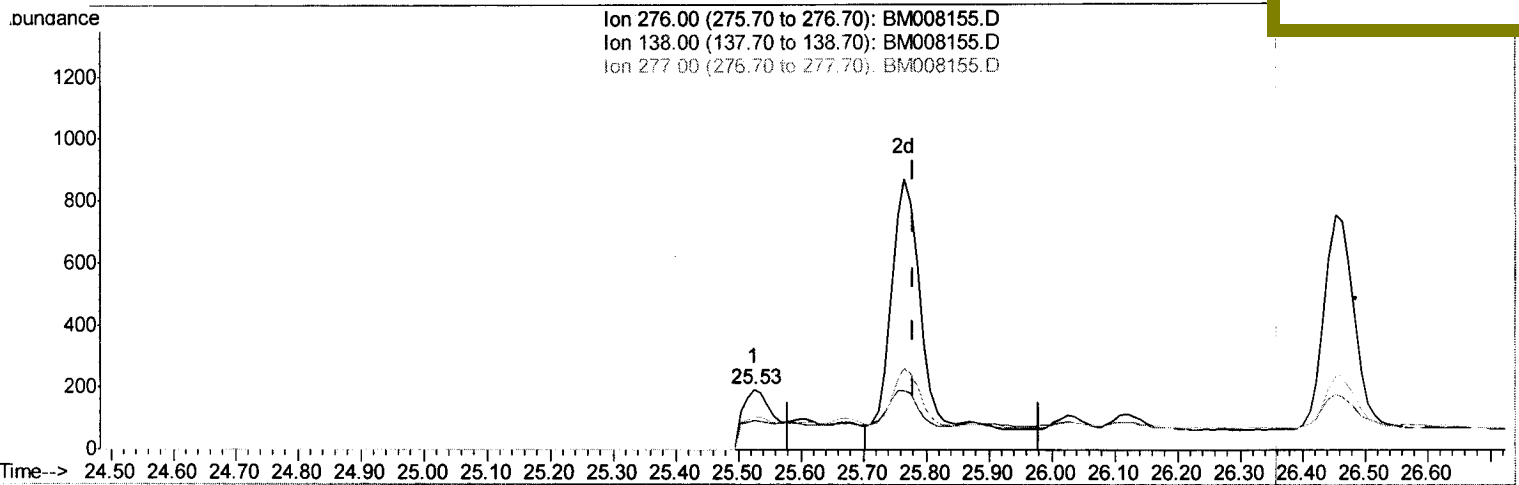
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
Data File : BM008155.D
Acq On : 02 Dec 2016 14:28
Operator : UM/SJ
Sample : H5730-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WH4

Quant Time: Dec 02 17:33:42 2016
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Manual Integrations
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(24) Indeno(1,2,3-cd)pyrene

25.526min (-0.254) 0.17ng/ul

response 1326

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	78.51#
277.00	24.50	89.22#
0.00	0.00	0.00

Quantitation Report (Qedit)

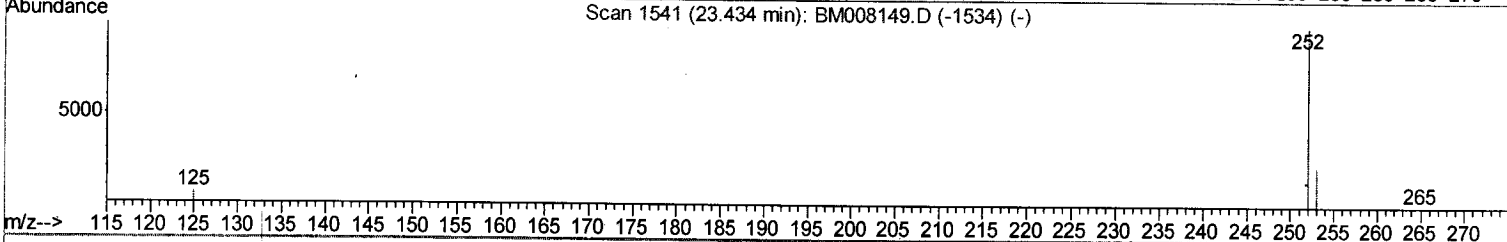
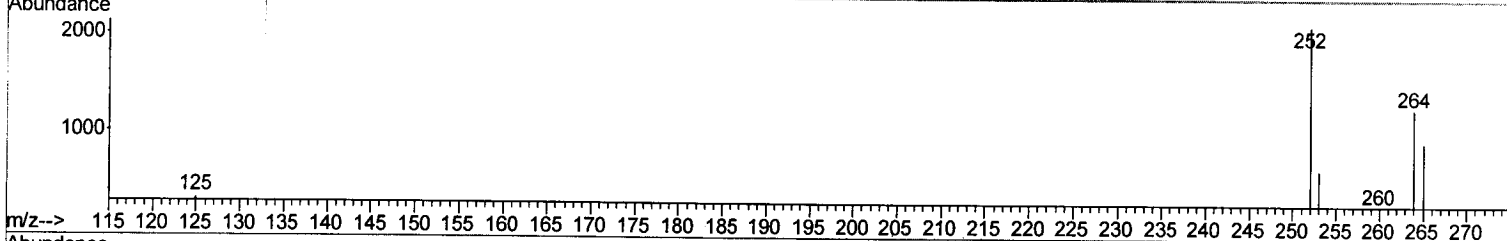
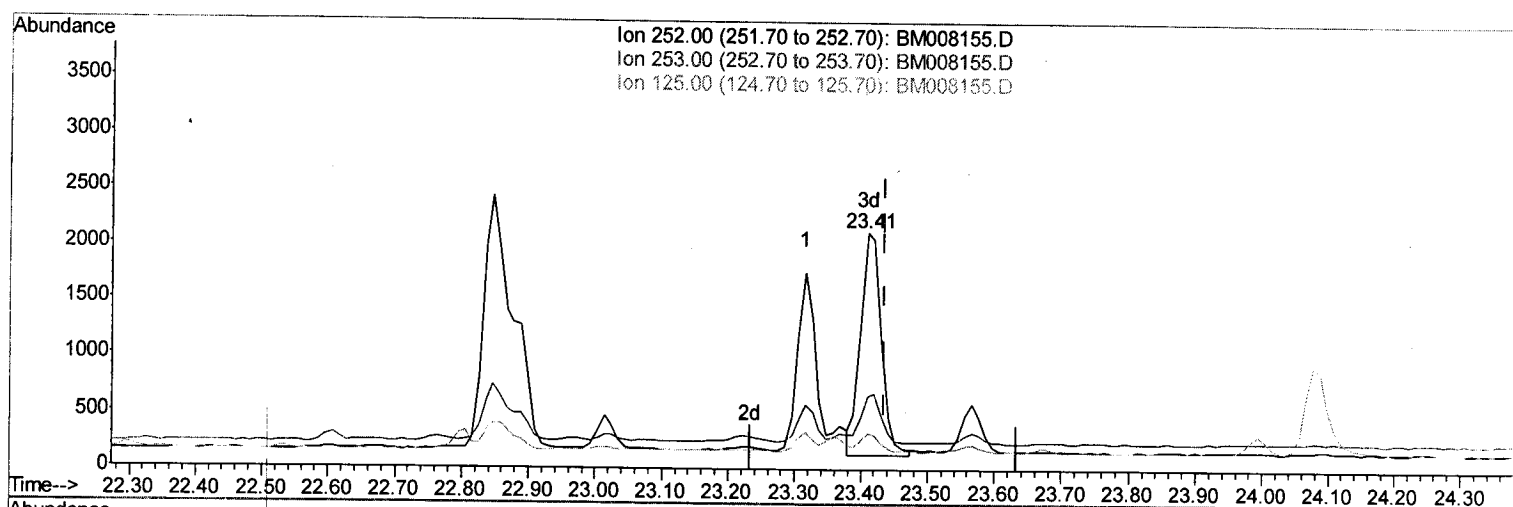
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 A4WH4

Manual Integrations
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Quant Time: Dec 02 17:33:42 2016
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(23) Benzo(a)pyrene (C)

23.410min (-0.024) 0.69ng/ul m

response 4305

Ion Exp% Act%

252.00 100 100

253.00 35.60 30.46

125.00 22.60 15.18#

0.00 0.00 0.00

25.7
 12/06/16

Quantitation Report (Qedit)

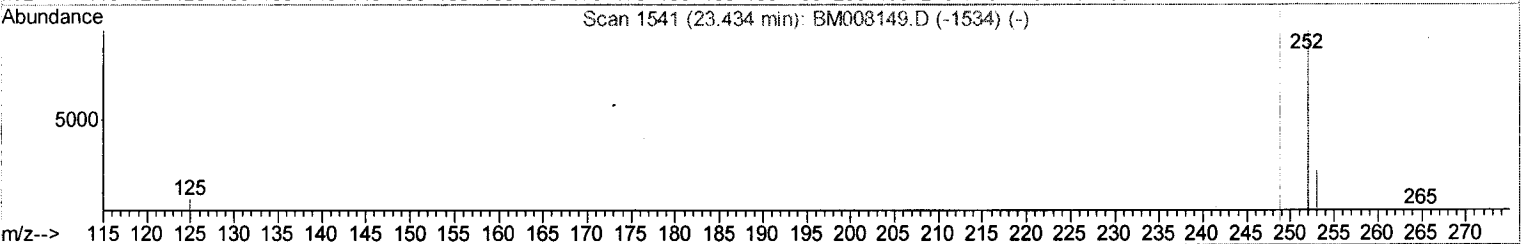
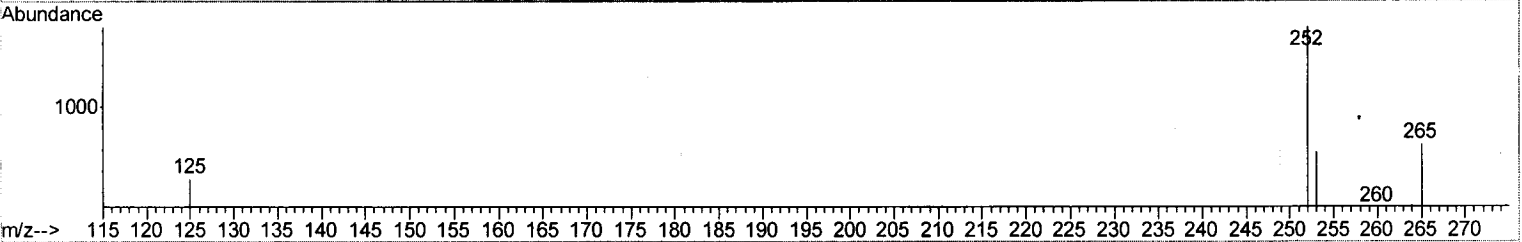
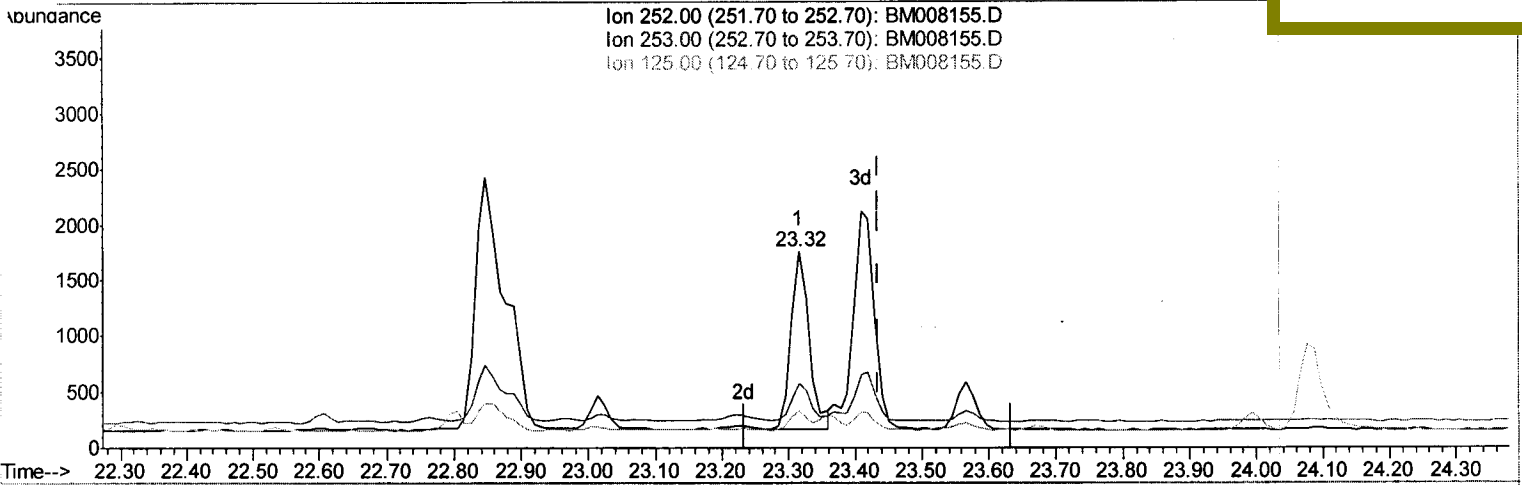
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
Data File : BM008155.D
Acq On : 02 Dec 2016 14:28
Operator : UM/SJ
Sample : H5730-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 17:33:42 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 02 15:28:31 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WH4

Manual Integrations
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TIC: BM008155.D

(23) Benzo(a)pyrene (C)

23.316min (-0.118) 0.49ng/ul

response 3021

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	32.52
125.00	22.60	18.79
0.00	0.00	0.00

Quantitation Report (Qedit)

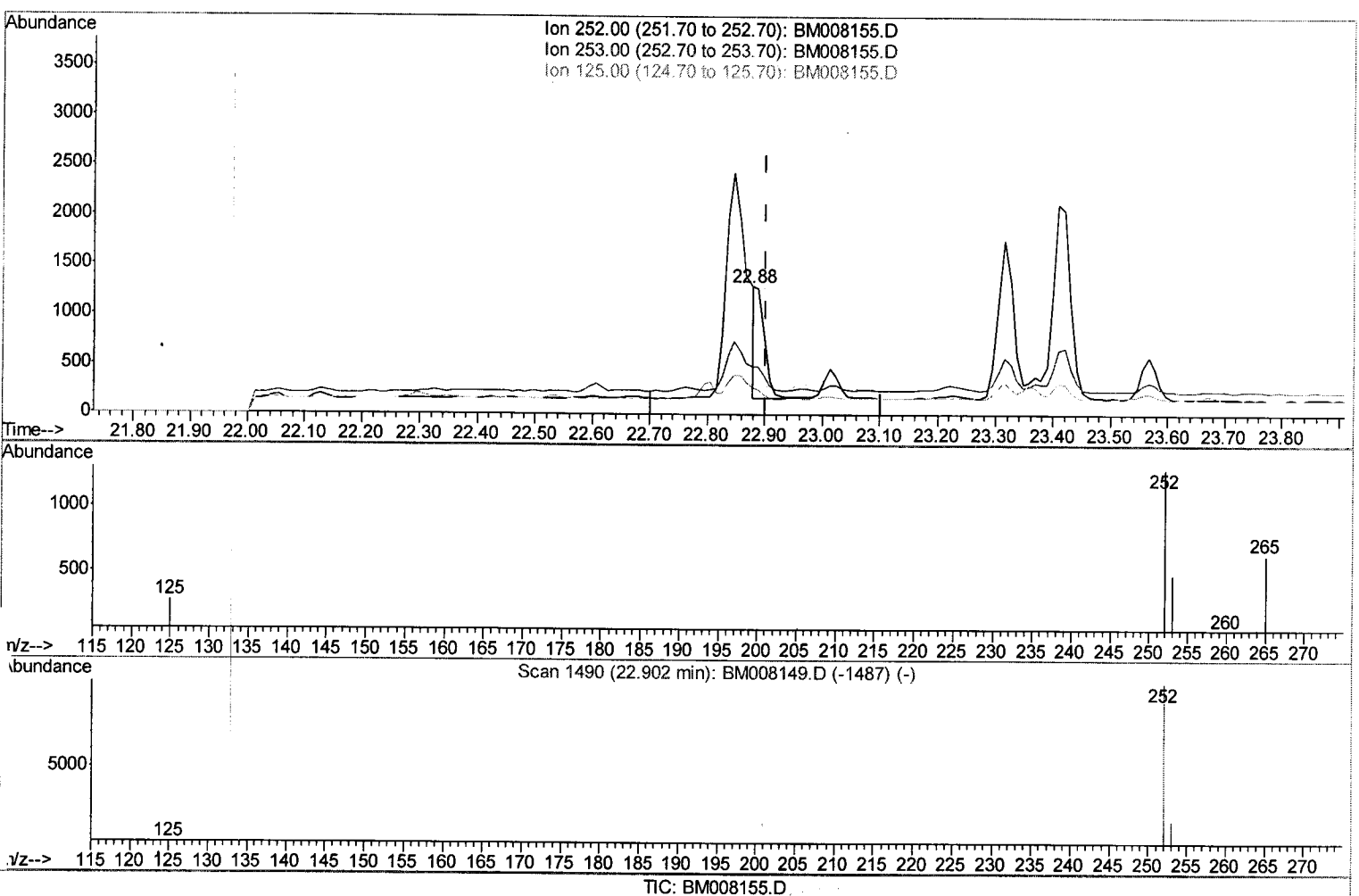
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Manual Integrations
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Quant Time: Dec 02 17:33:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
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 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.878min (-0.024) 0.18ng/ul m

response 1239

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	37.57#
125.00	17.10	21.61#
0.00	0.00	0.00

75.7
 12/06/16

Quantitation Report (Qedit)

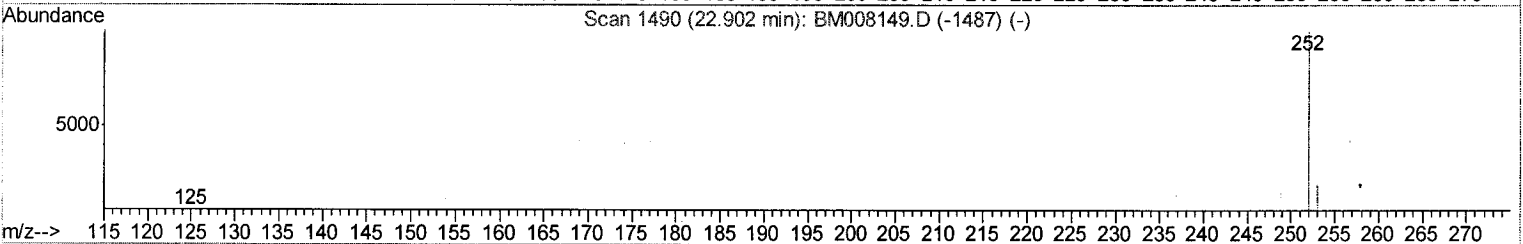
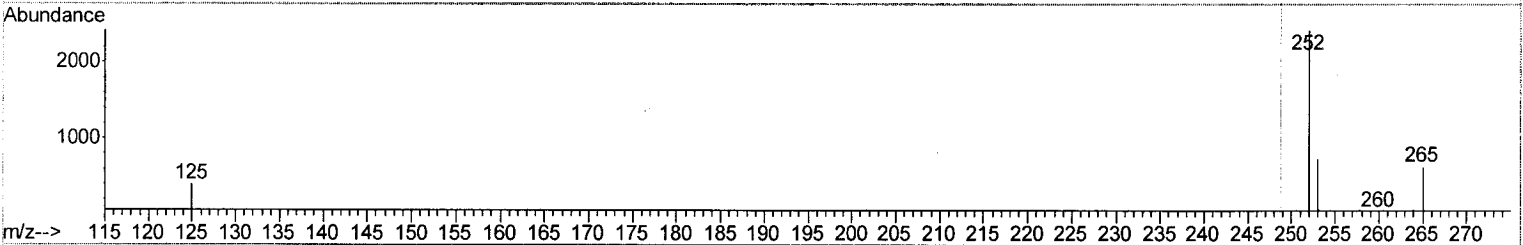
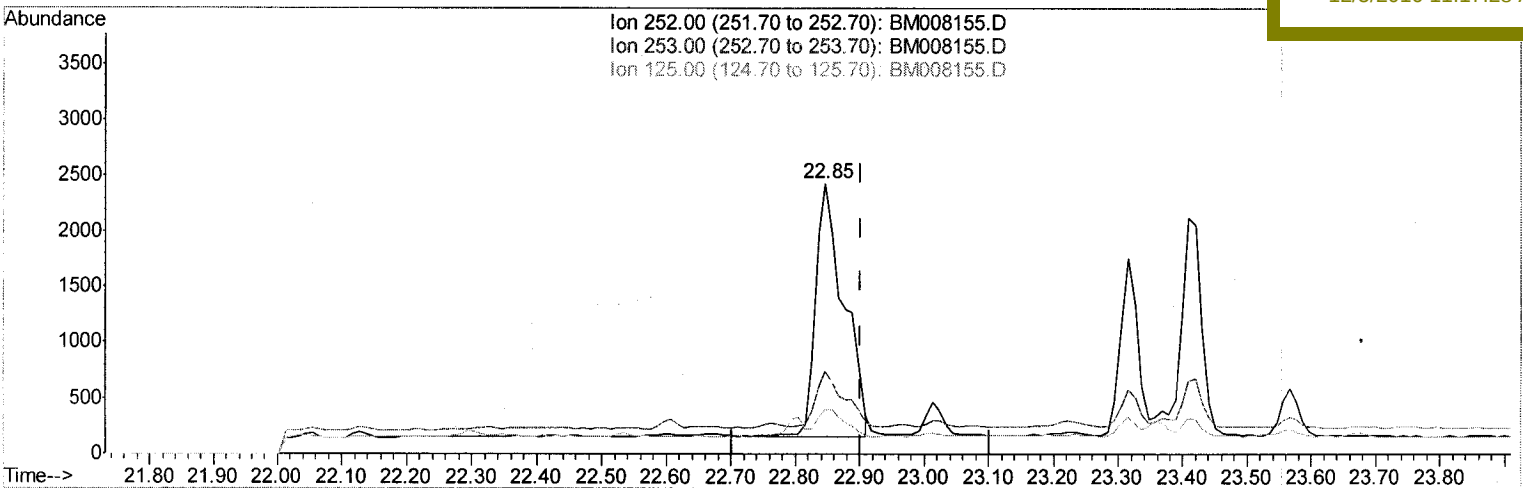
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
ClientSampleId :
 A4WH4

Quant Time: Dec 02 17:33:42 2016
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration

Manual Integrations
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TIC: BM008155.D

(22) Benzo(k)fluoranthene
 22.847min (-0.056) 1.01ng/ul
 response 6900

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	30.40
125.00	17.10	16.27
0.00	0.00	0.00

Quantitation Report (Qedit)

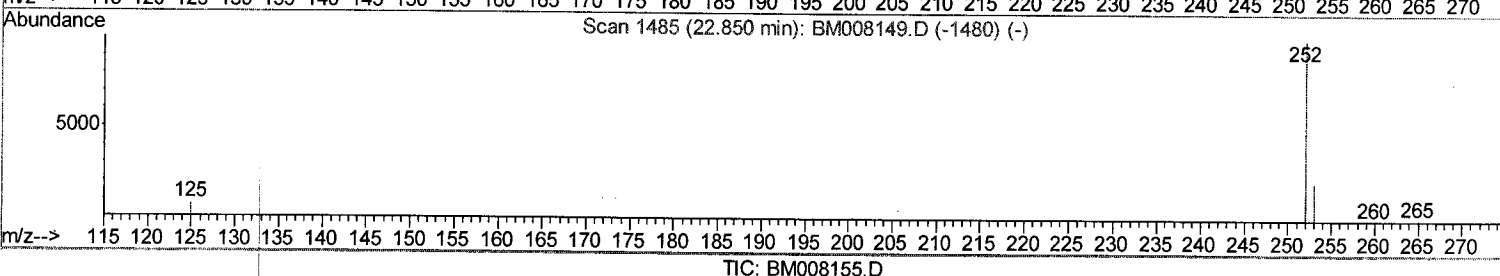
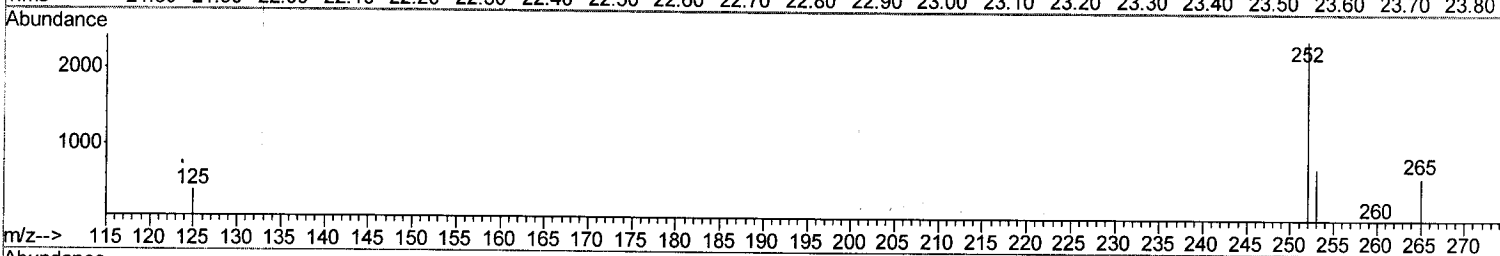
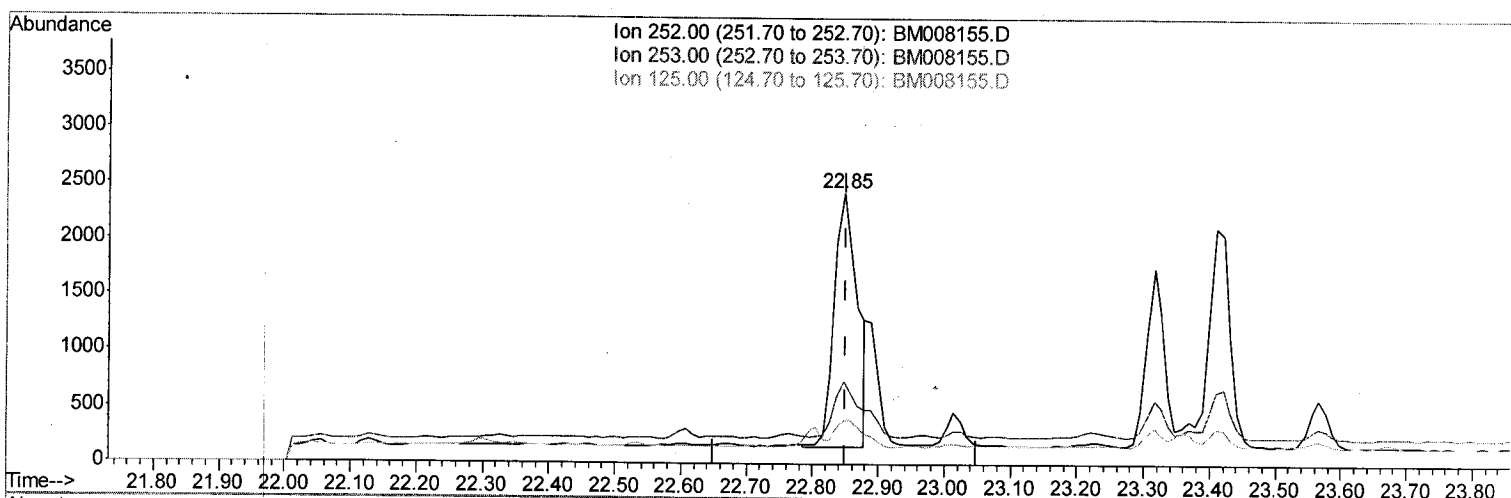
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Manual Integrations
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Quant Time: Dec 02 17:33:42 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
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 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration



TIC: BM008155.D

(21) Benzo(b)fluoranthene

22.847min (-0.004) 0.86ng/ul m

response 5690

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	30.40
125.00	17.50	16.27
0.00	0.00	0.00

25.9
 12/06/16

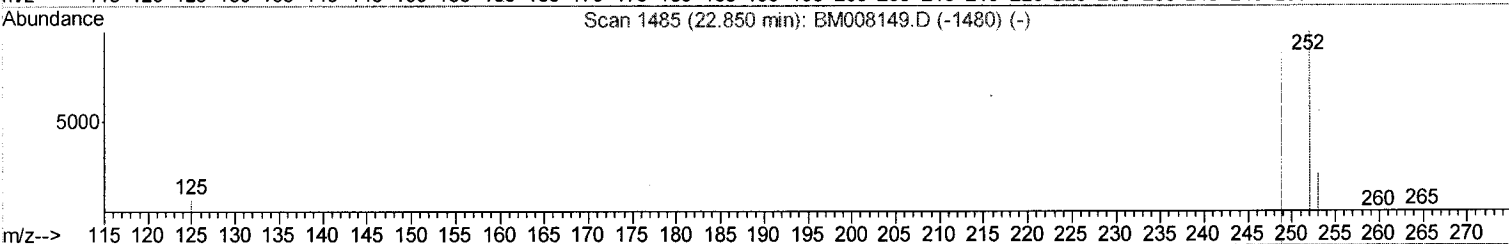
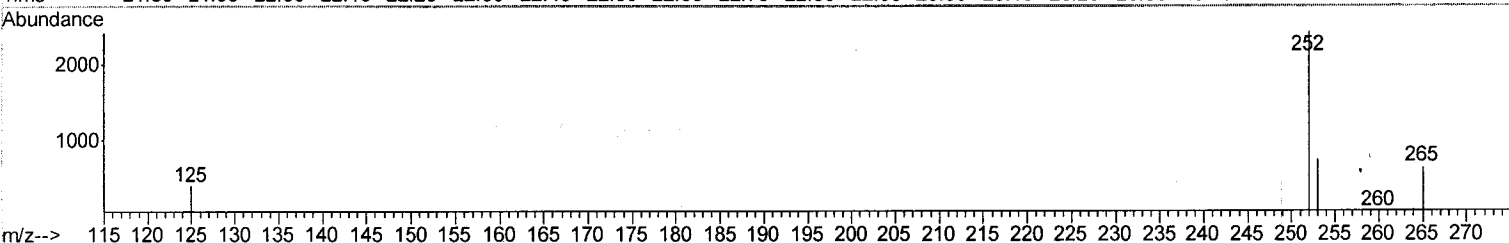
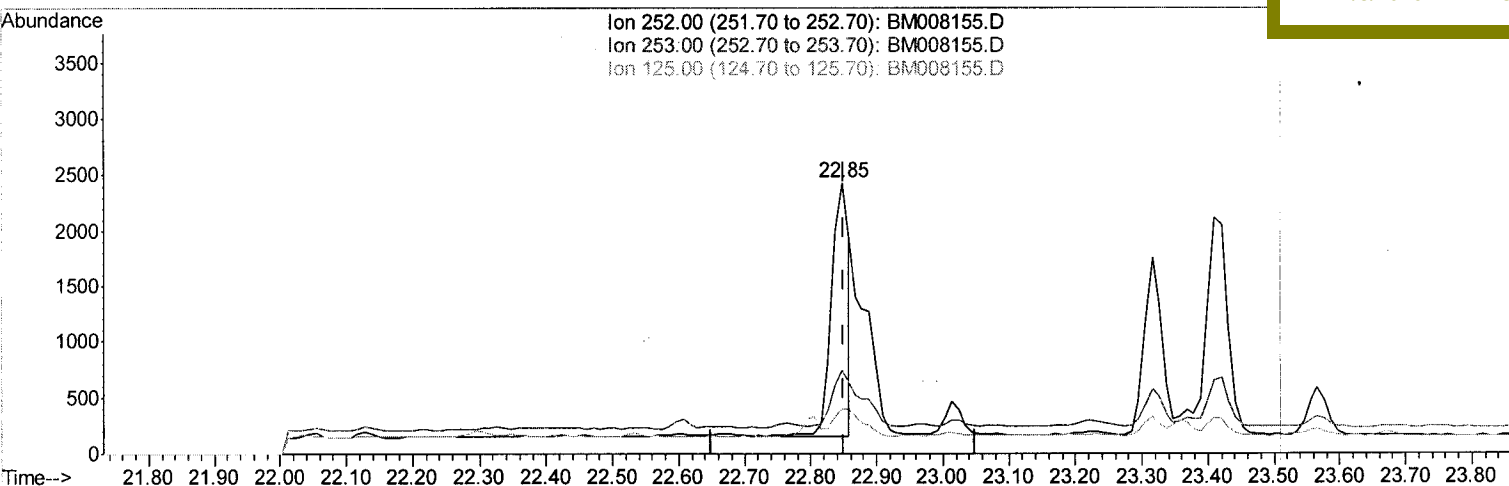
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
Data File : BM008155.D
Acq On : 02 Dec 2016 14:28
Operator : UM/SJ
Sample : H5730-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
A4WH4

Quant Time: Dec 02 17:33:42 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
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Manual Integrations
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TIC: BM008155.D

(21) Benzo(b)fluoranthene

22.847min (-0.004) 0.64ng/ul

response 4225

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	30.40
125.00	17.50	16.27
0.00	0.00	0.00

Quantitation Report (Qedit)

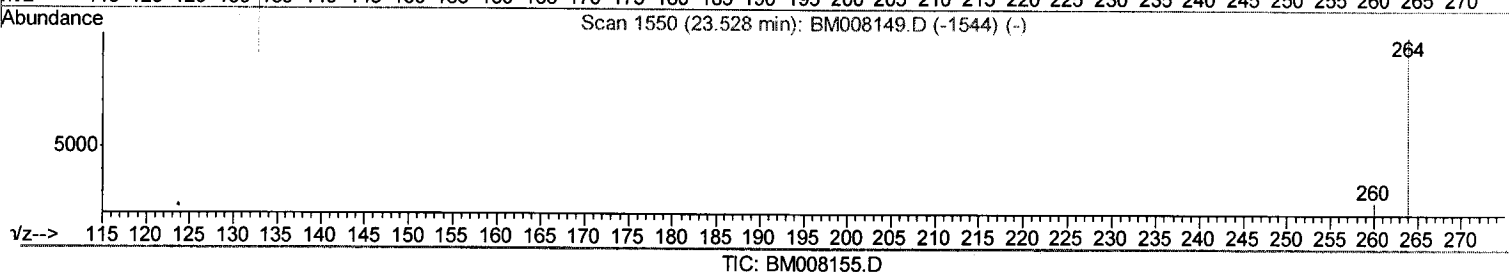
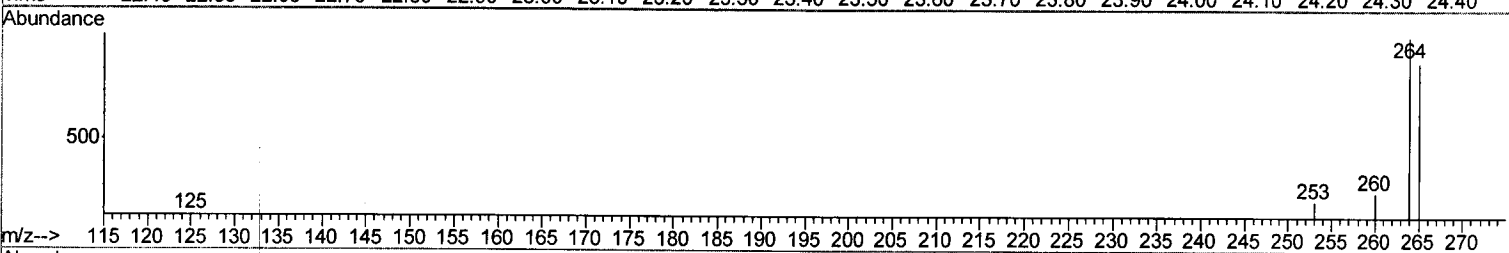
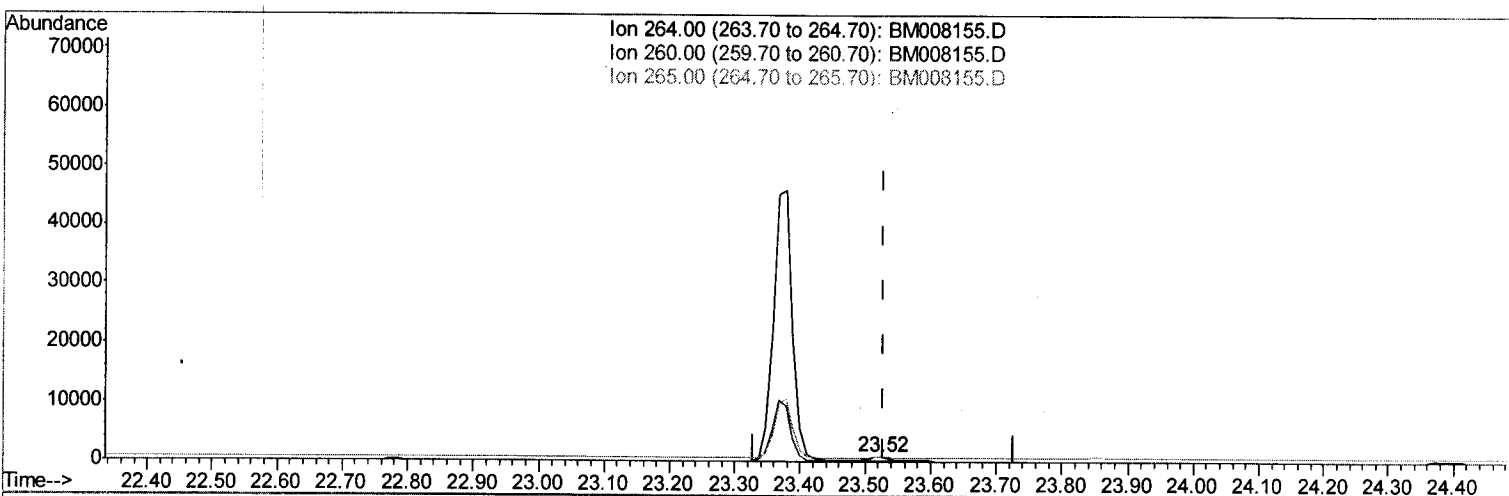
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Manual Integrations
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 12/5/2016 11:17:28 AM

Quant Time: Dec 02 17:33:01 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration



TIC: BM008155.D

(20) Perylene-d12 (I)

23.524min (-0.004) 0.40ng/ul m

response 1663

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	29.18
265.00	103.50	88.37
0.00	0.00	0.00

79.7
 12/06/16

Quantitation Report (Qedit)

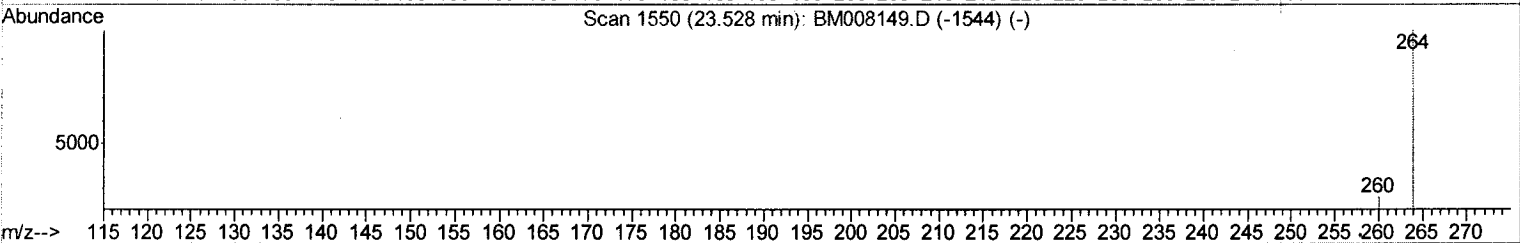
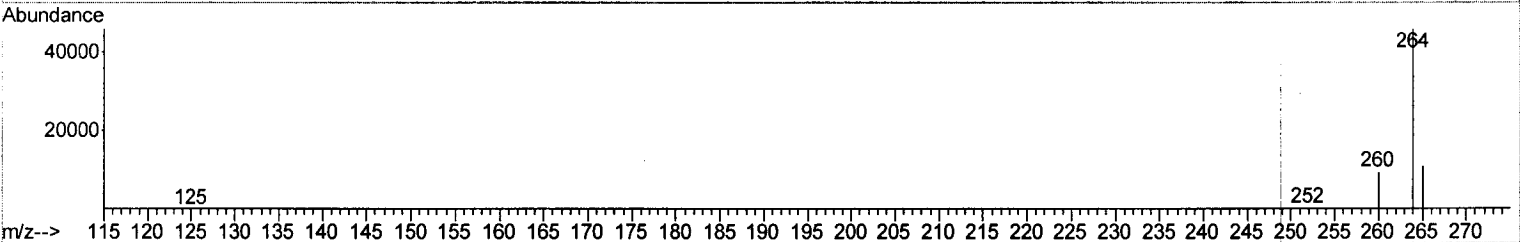
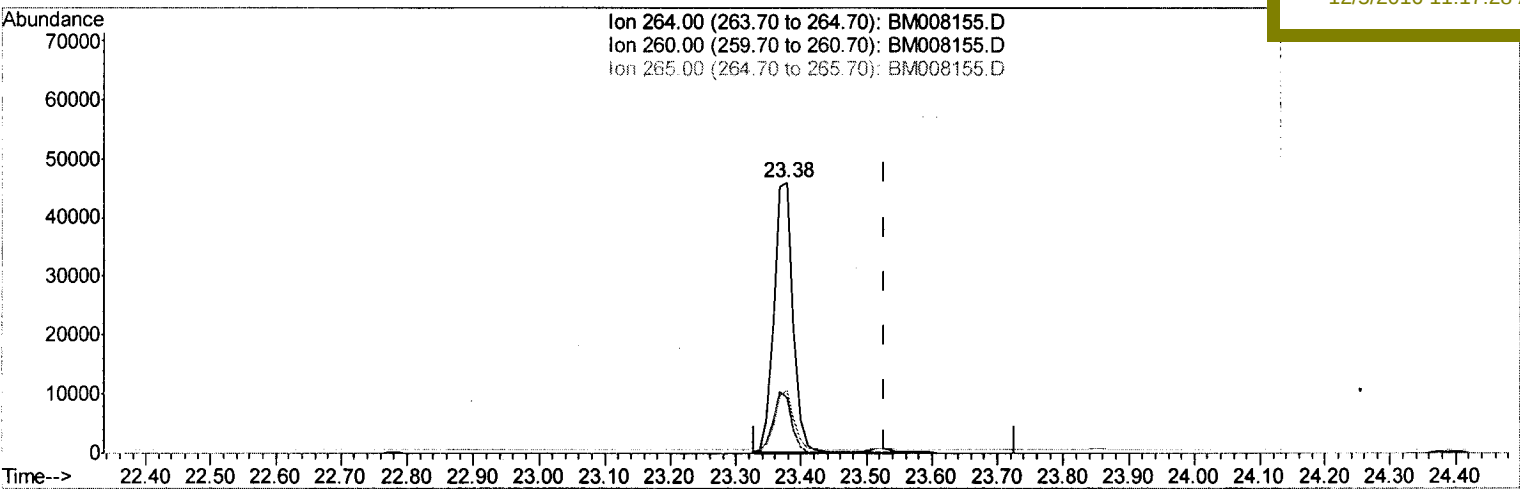
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Quant Time: Dec 02 17:33:01 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 12/5/2016 11:17:28 AM



TIC: BM008155.D

(20) Perylene-d12 (I)

23.378min (-0.150) 0.40ng/ul

response 92199

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	20.34#
265.00	103.50	23.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

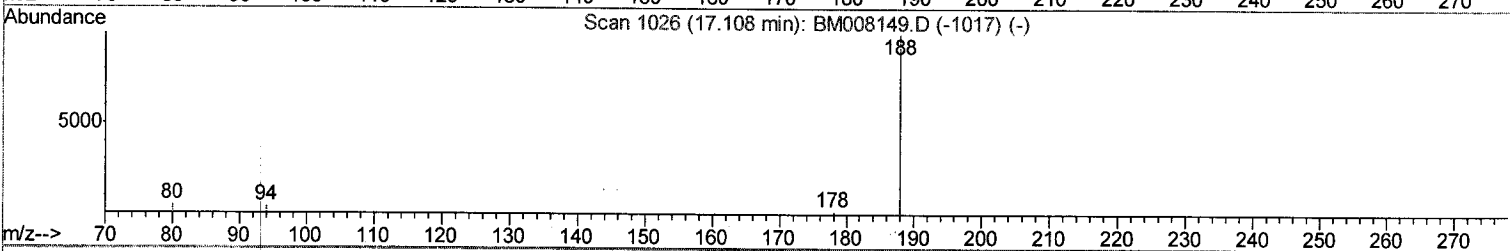
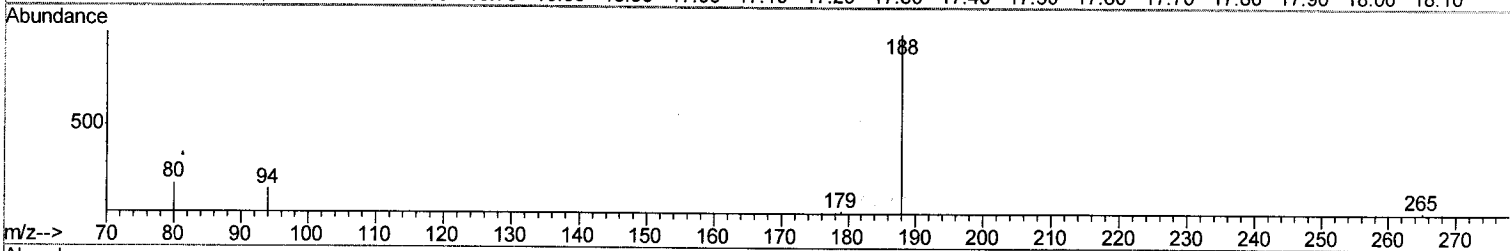
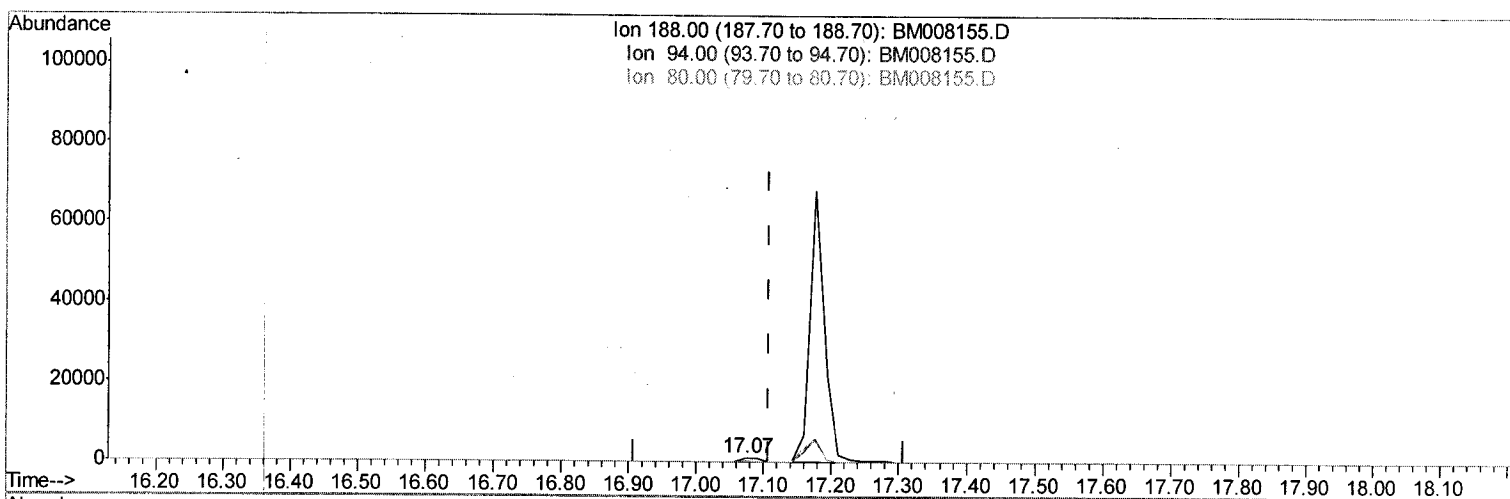
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
 Data File : BM008155.D
 Acq On : 02 Dec 2016 14:28
 Operator : UM/SJ
 Sample : H5730-08
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4WH4

Manual Integrations
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Quant Time: Dec 02 17:14:28 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 15:28:31 2016
 Response via : Initial Calibration



TIC: BM008155.D

(10) Phenanthrene-d10 (I)

17.073min (-0.035) 0.40ng/ul m

response 1974

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	16.98#
80.00	11.80	20.16#
0.00	0.00	0.00

> 5.7
 12/06/16

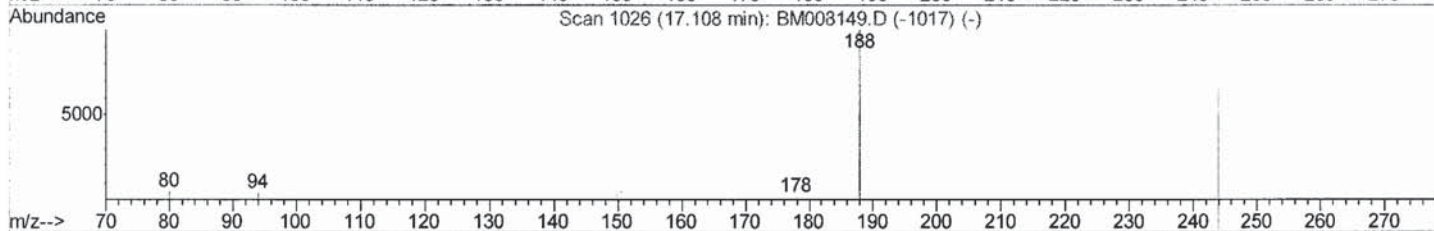
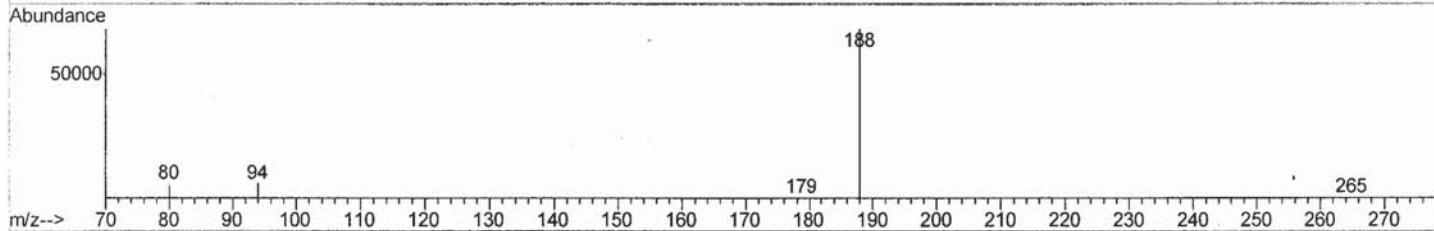
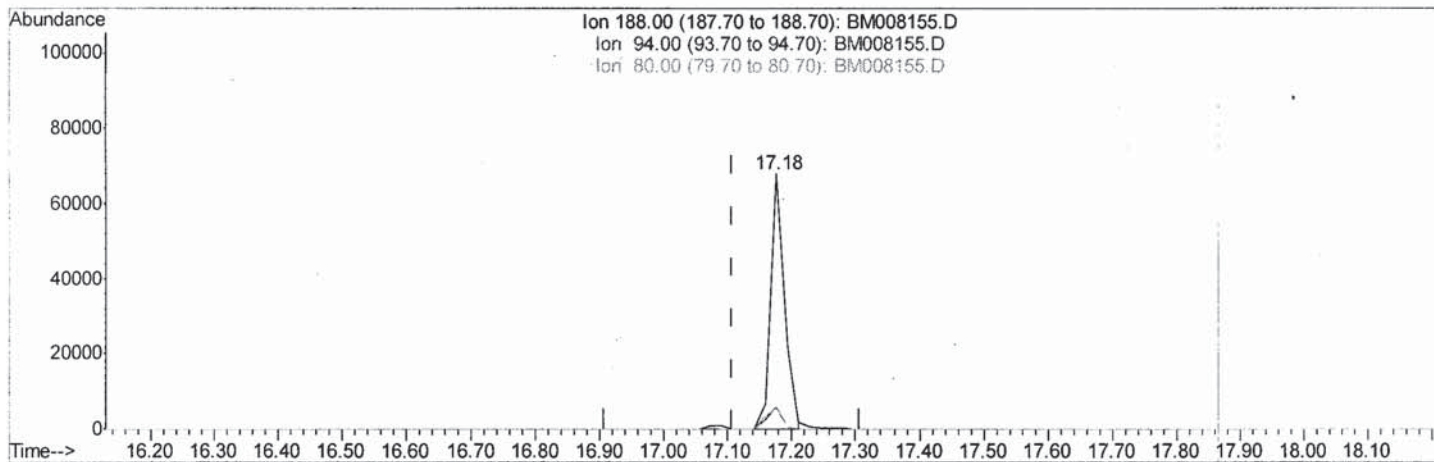
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
Data File : BM008155.D
Acq On : 02 Dec 2016 14:28
Operator : UM/SJ
Sample : H5730-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WH4

Manual Integrations
APPROVED

sohil
12/5/2016 11:17:28 AM

Quant Time: Dec 02 17:14:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 02 15:28:31 2016
Response via : Initial Calibration



TIC: BM008155.D

(10) Phenanthrene-d10 (I)

17.176min (+0.068) 0.40ng/ul

response 100993

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	8.88
80.00	11.80	8.32#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120216\
Data File : BM008155.D
Acq On : 02 Dec 2016 14:28
Operator : UM/SJ
Sample : H5730-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4WH4

Quant Time: Dec 02 17:37:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 02 15:28:31 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
12/5/2016 11:17:28 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	617	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.48	136	2051	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.33	164	1138	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.07	188	1974m	0.40	ng/ul	-0.03
16) Chrysene-d12	21.28	240	1936	0.40	ng/ul	-0.01
20) Perylene-d12	23.52	264	1663m	0.40	ng/ul	0.00

System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.08	152	684	0.24	ng/ul	-0.01
14) Fluoranthene-d10	19.12	212	1305	0.23	ng/ul	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.52	128	319	0.06	ng/ul#	58
8) Acenaphthene	14.38	153	145	0.04	ng/ul#	84
9) Fluorene	15.39	166	210	0.05	ng/ul#	89
12) Phenanthrene	17.12	178	4619	0.75	ng/ul	94
13) Anthracene	17.21	178	848	0.15	ng/ul#	86
15) Fluoranthene	19.14	202	9009	1.14	ng/ul	95
17) Pyrene	19.51	202	11428	1.70	ng/ul	99
18) Benzo(a)anthracene	21.26	228	4931	0.83	ng/ul	99
19) Chrysene	21.31	228	5655	0.77	ng/ul	95
21) Benzo(b)fluoranthene	22.85	252	5690m	0.86	ng/ul	
22) Benzo(k)fluoranthene	22.88	252	1239m	0.18	ng/ul	
23) Benzo(a)pyrene	23.41	252	4305m	0.69	ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.77	276	2473m	0.32	ng/ul	
25) Dibenzo(a,h)anthracene	25.77	278	929m	0.15	ng/ul	
26) Benzo(g,h,i)perylene	26.45	276	2352m	0.34	ng/ul	

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