

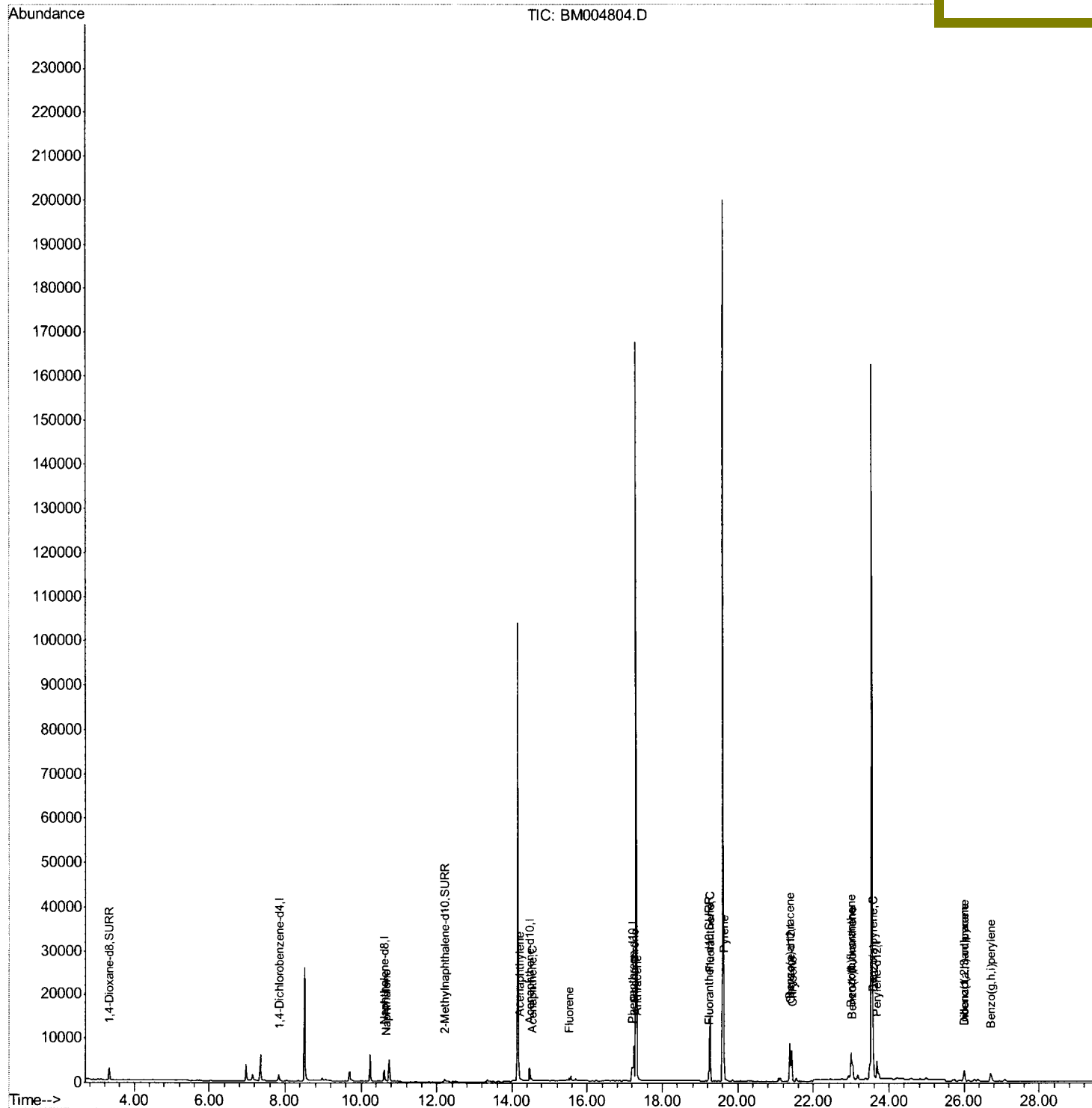
Data Path : Z:\HPCHEM1\BNA_M\Data\BM032816\
Data File : BM004804.D
Acq On : 28 Mar 2016 13:31
Operator : UM/SJ
Sample : H1909-16DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4T50DL

Quant Time: Apr 06 14:33:07 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

Sohil
4/6/2016 5:04:58 PM



Quantitation Report (Qedit)

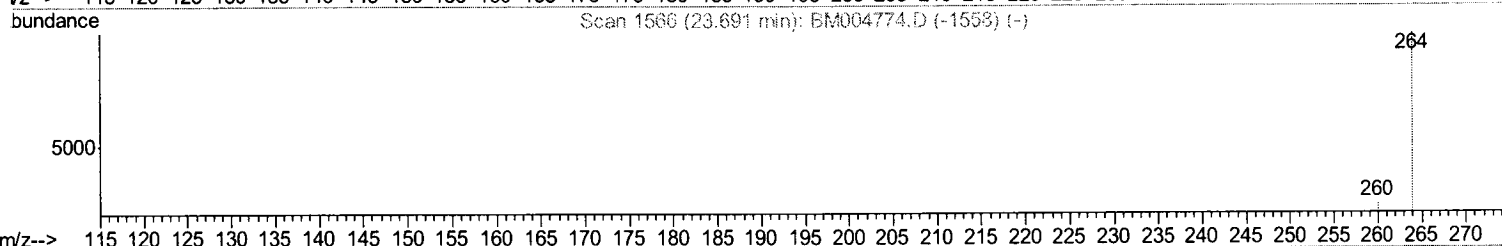
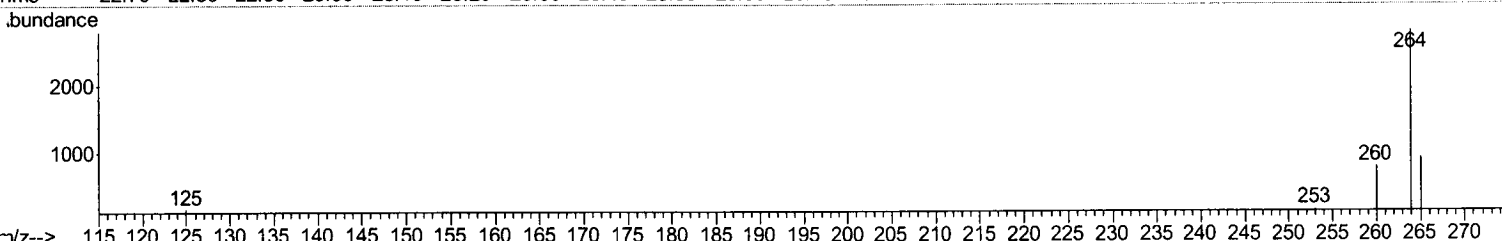
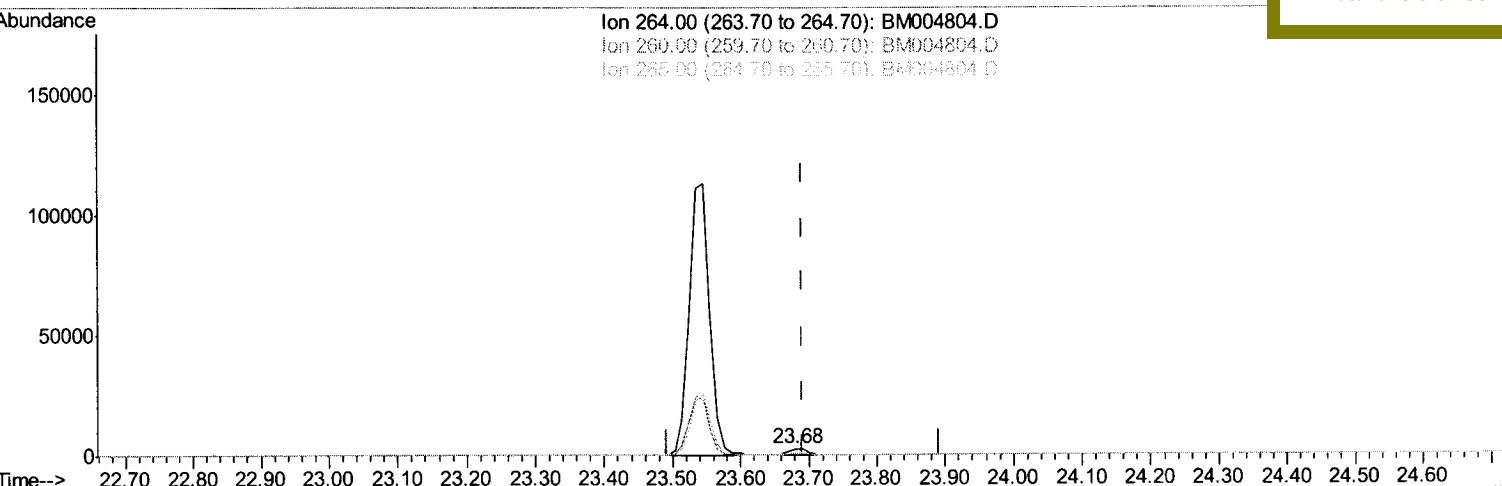
Data Path : Z:\HPCHEM1\BNA_M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:30:39 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



TIC: BM004804.D

(22) Perylene-d12 (I)

23.680min (-0.011) 0.40ng/ul m

response 4987

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	27.87
265.00	38.20	32.87
0.00	0.00	0.00

U.M
 04/07/16

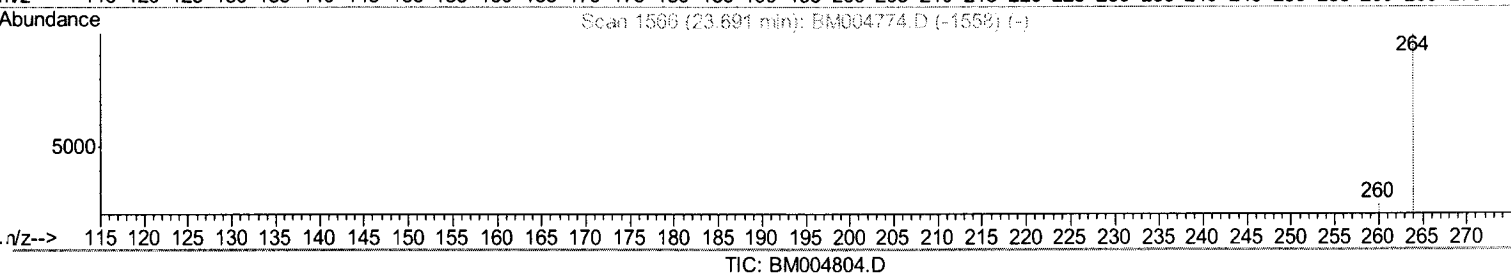
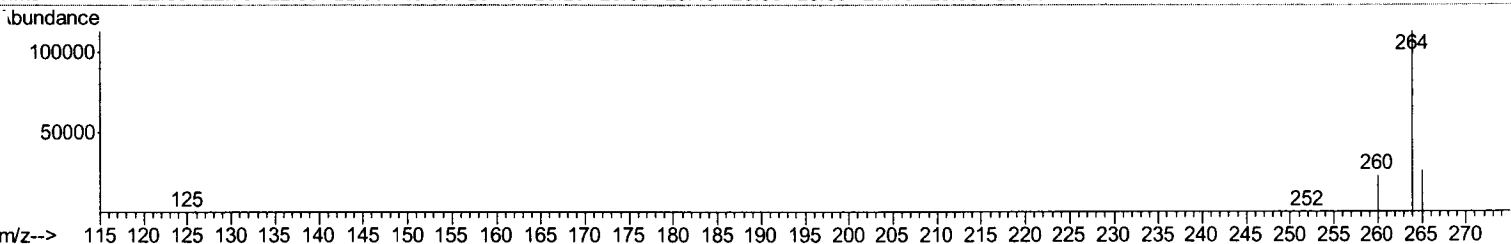
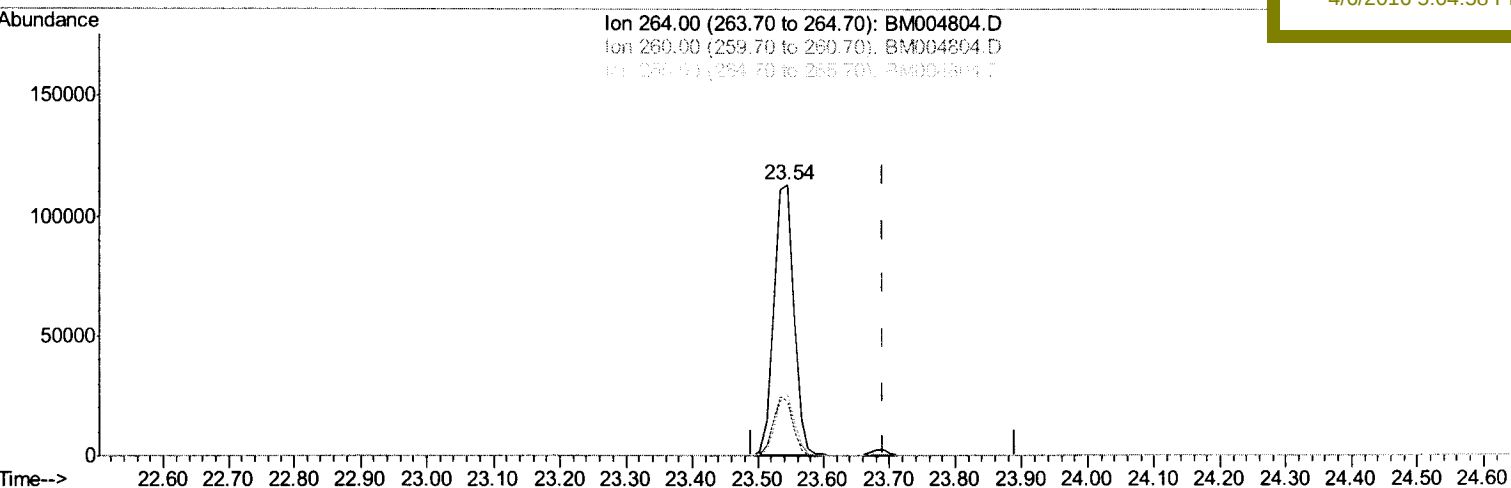
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
Data File : BM004804.D
Acq On : 28 Mar 2016 13:31
Operator : UM/SJ
Sample : H1909-16DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4T50DL

Manual Integrations
APPROVED

Sohil
4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



(22) Perylene-d12 (I)

23.545min (-0.146) 0.40ng/ul

response 232689

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	20.18#
265.00	38.20	22.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

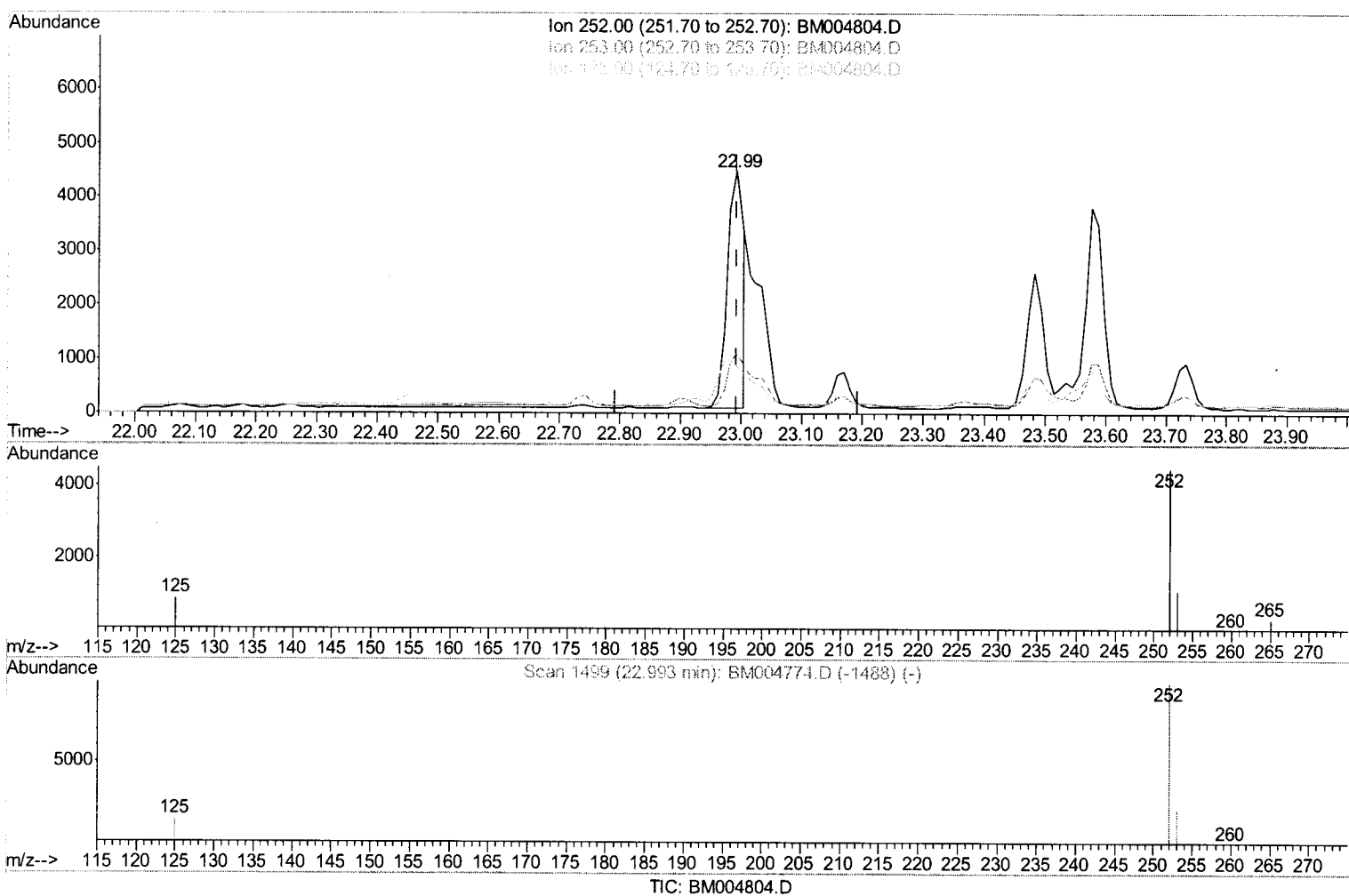
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



(23) Benzo(b)fluoranthene

22.993min (-0.000) 0.58ng/ul

response 8155

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	25.09
125.00	14.40	19.71
0.00	0.00	0.00

Quantitation Report (Qedit)

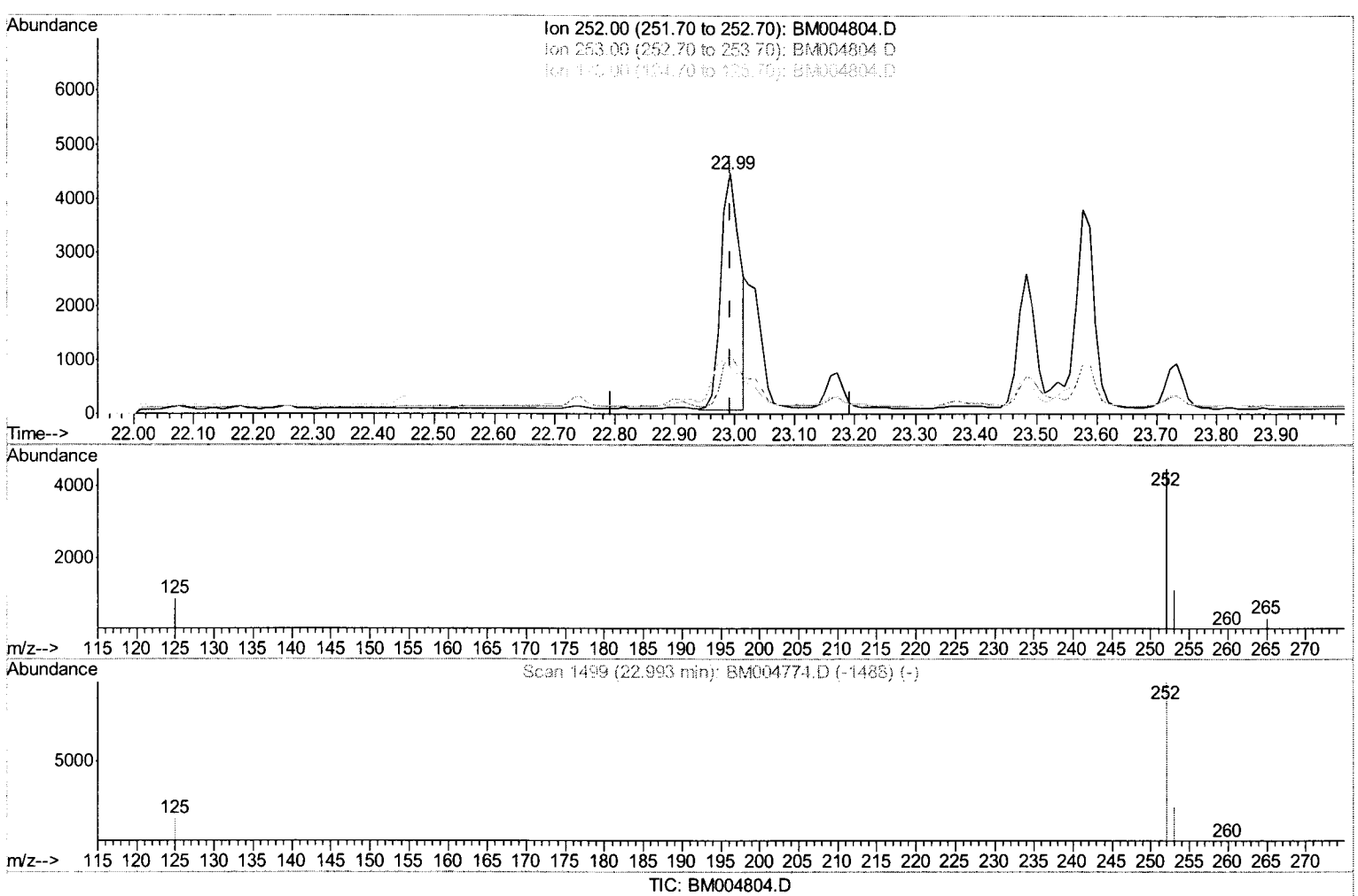
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



(23) Benzo(b)fluoranthene

22.993min (-0.000) 0.70ng/ul m U.M
 response 9844 04/07/16

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	25.09
125.00	14.40	19.71
0.00	0.00	0.00

Quantitation Report (Qedit)

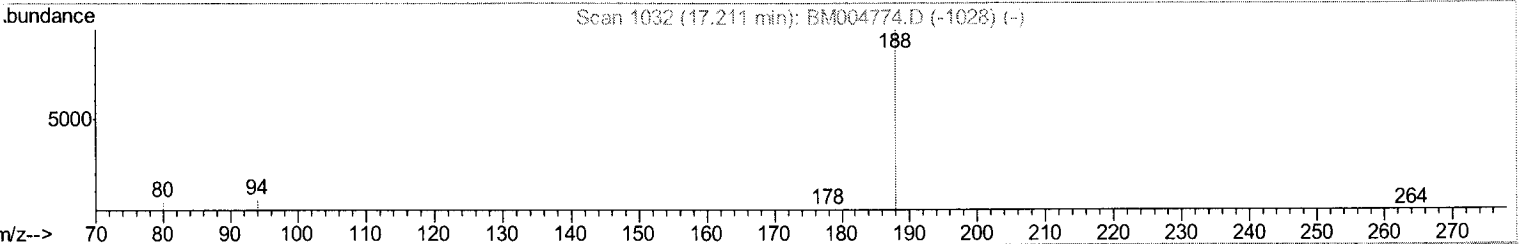
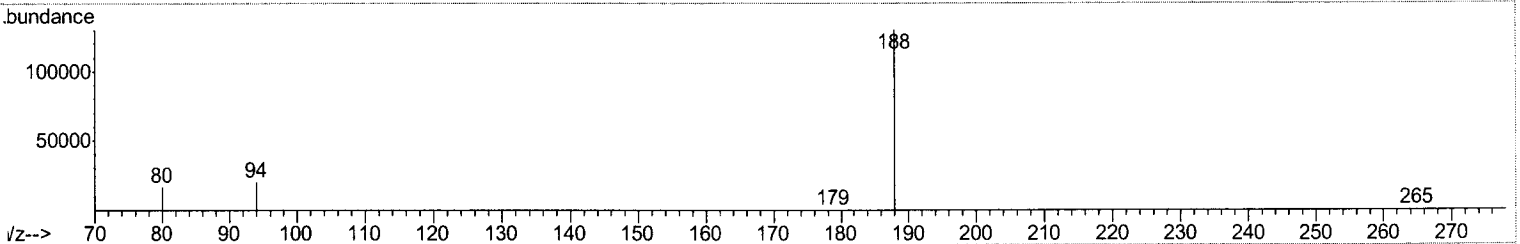
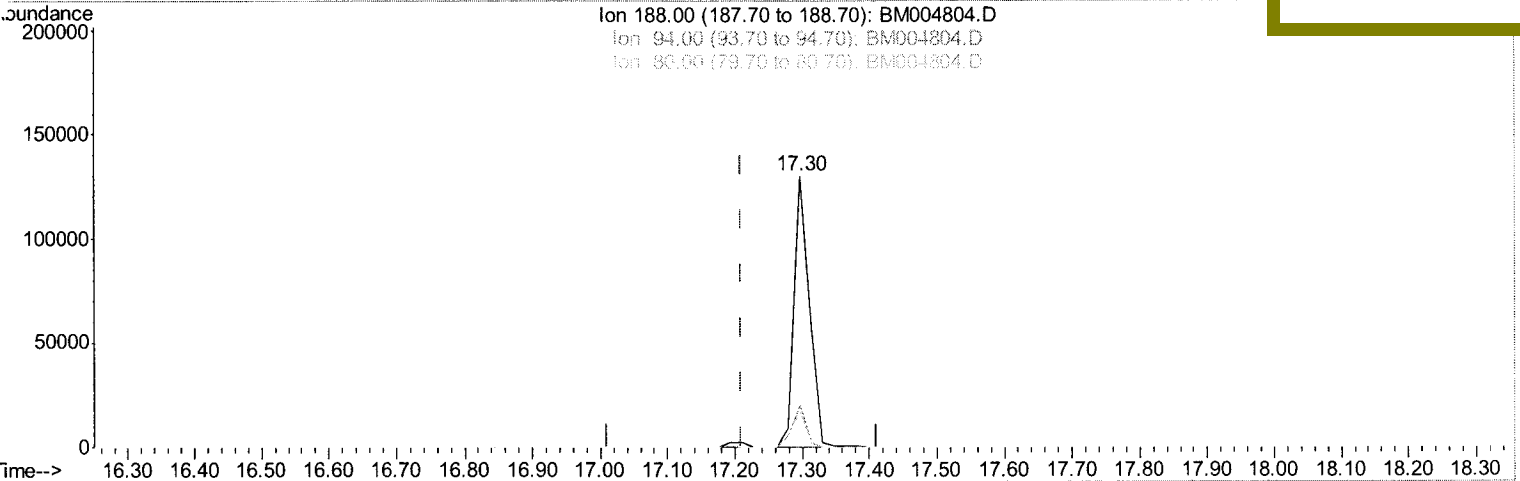
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:22:03 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



TIC: BM004804.D

(12) Phenanthrene-d10 (I)

17.296min (+0.085) 0.40ng/ul

response 205138

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	15.62#
80.00	11.90	12.74
0.00	0.00	0.00

Quantitation Report (Qedit)

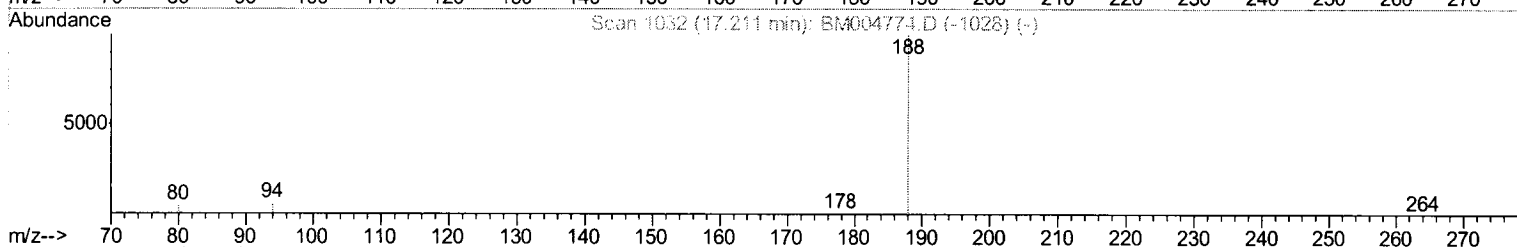
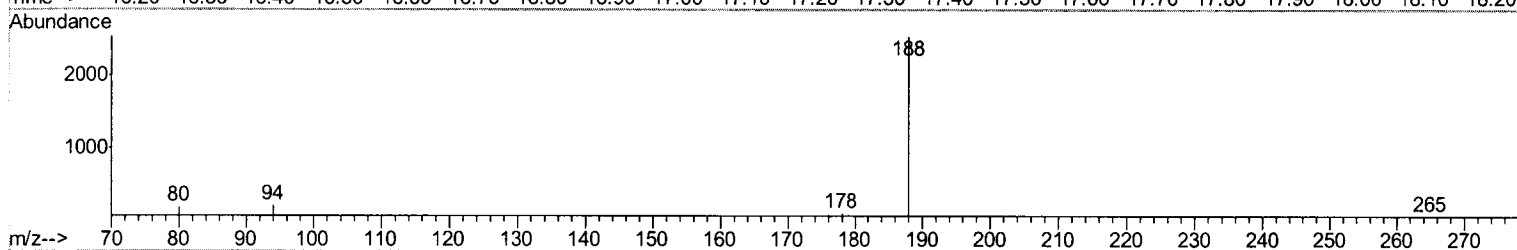
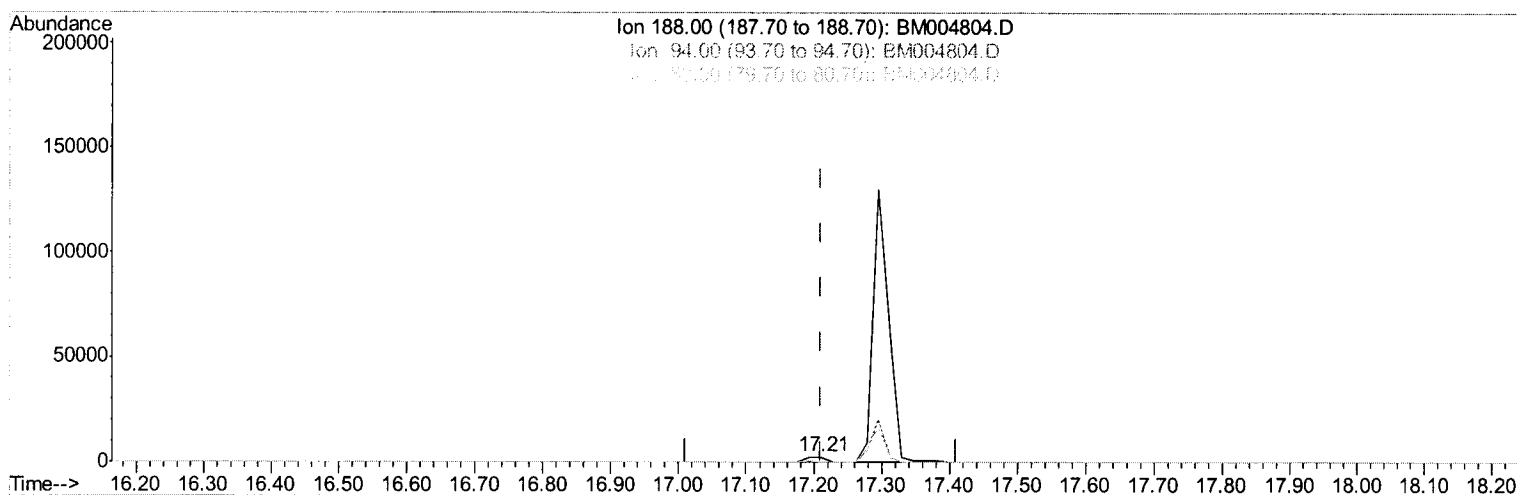
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:22:03 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



TIC: BM004804.D

(12) Phenanthrene-d10 (I)

17.210min (-0.000) 0.40ng/ul m U.M
04/07/16

response 5140

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	7.71#
80.00	11.90	6.69#
0.00	0.00	0.00

Quantitation Report (Qedit)

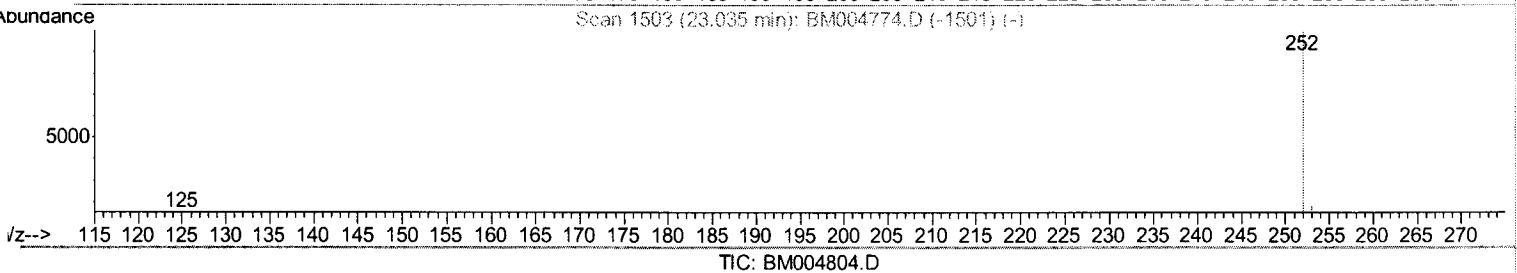
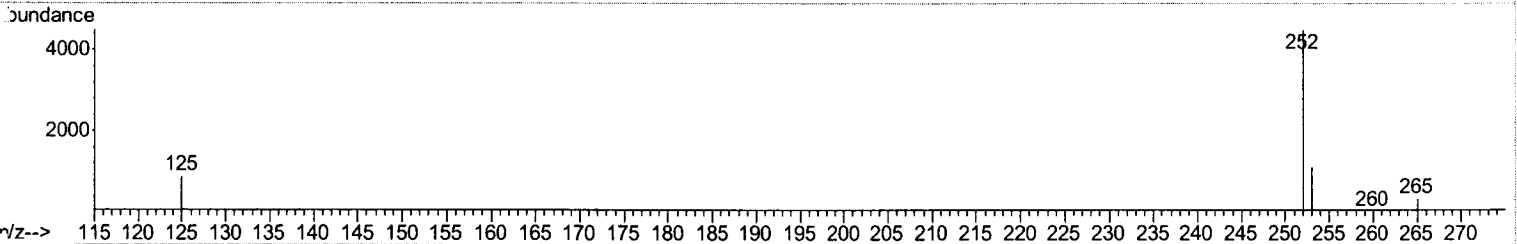
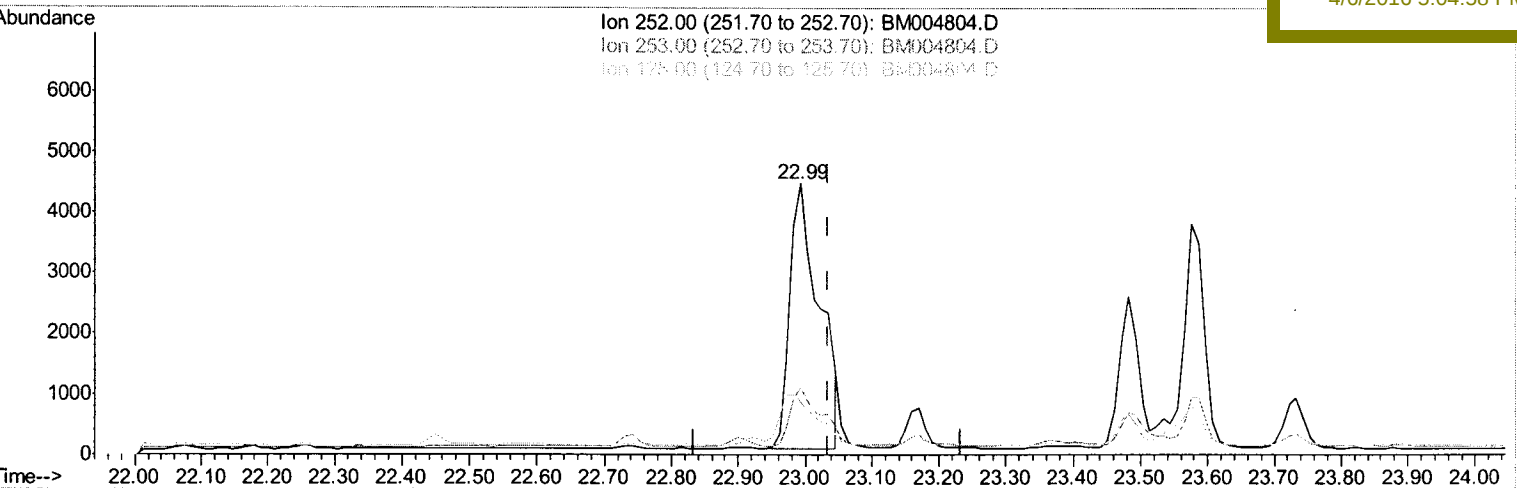
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM



(24) Benzo(k)fluoranthene
 22.993min (-0.042) 1.03ng/ul
 response 13372

Ion	Exp%	Act%
252.00	100	100
253.00	24.80	25.09
125.00	13.00	19.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

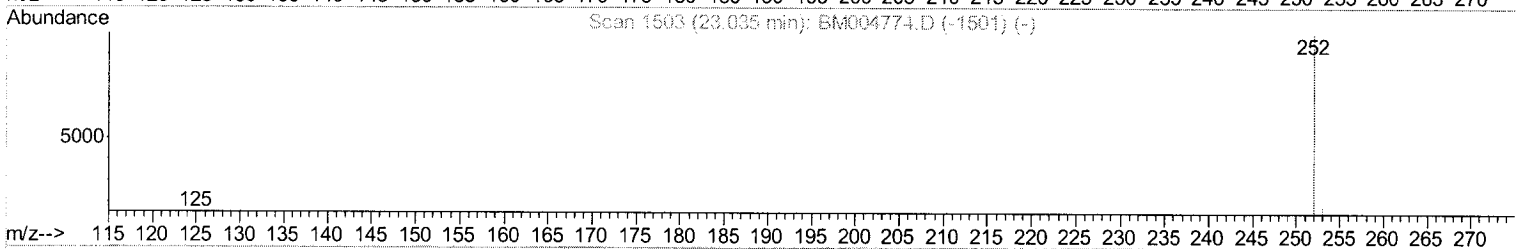
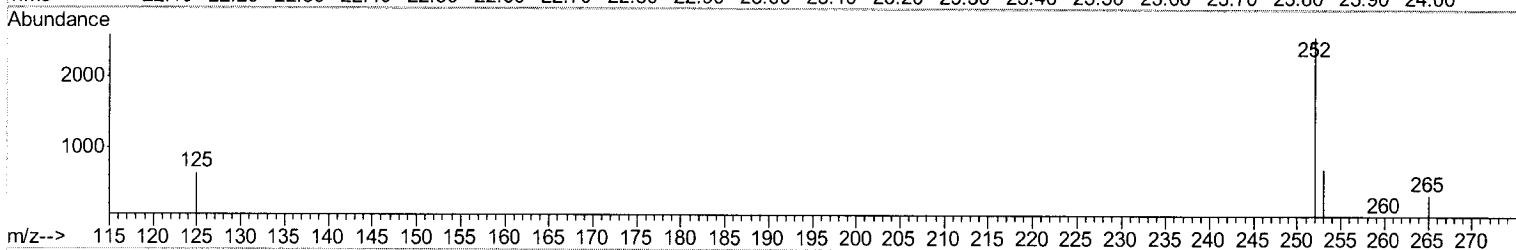
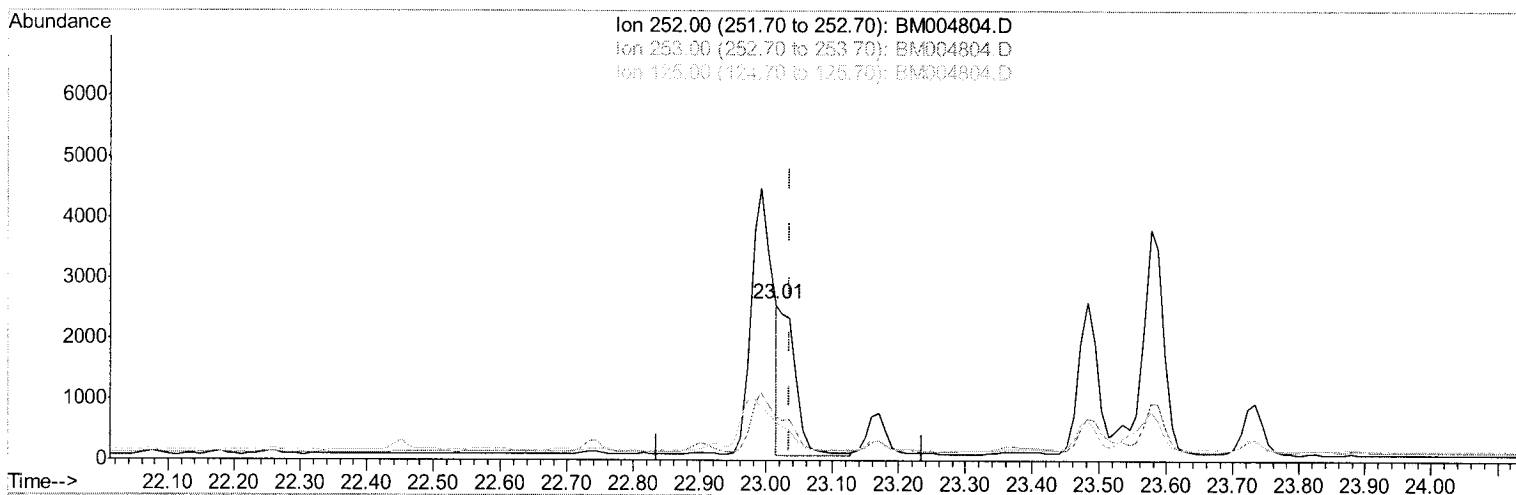
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



TIC: BM004804.D

(24) Benzo(k)fluoranthene

23.013min (-0.021) 0.33ng/ul m

U.M
 04/07/16

response 4272

Ion	Exp%	Act%
252.00	100	100
253.00	24.80	27.66
125.00	13.00	24.68#
0.00	0.00	0.00

Quantitation Report (Qedit)

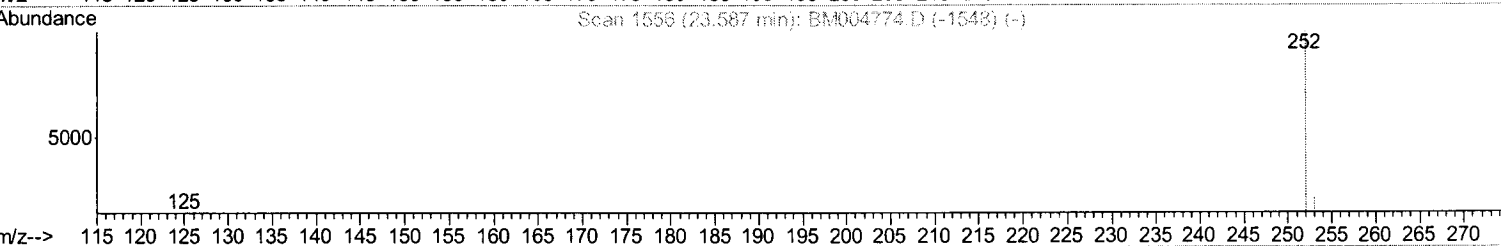
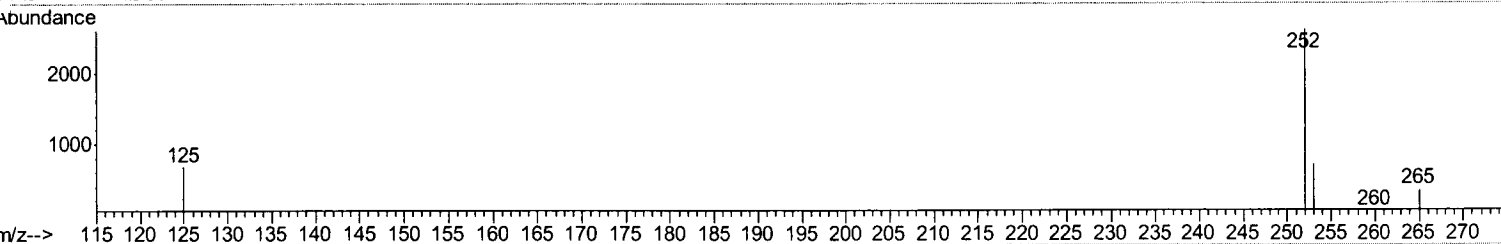
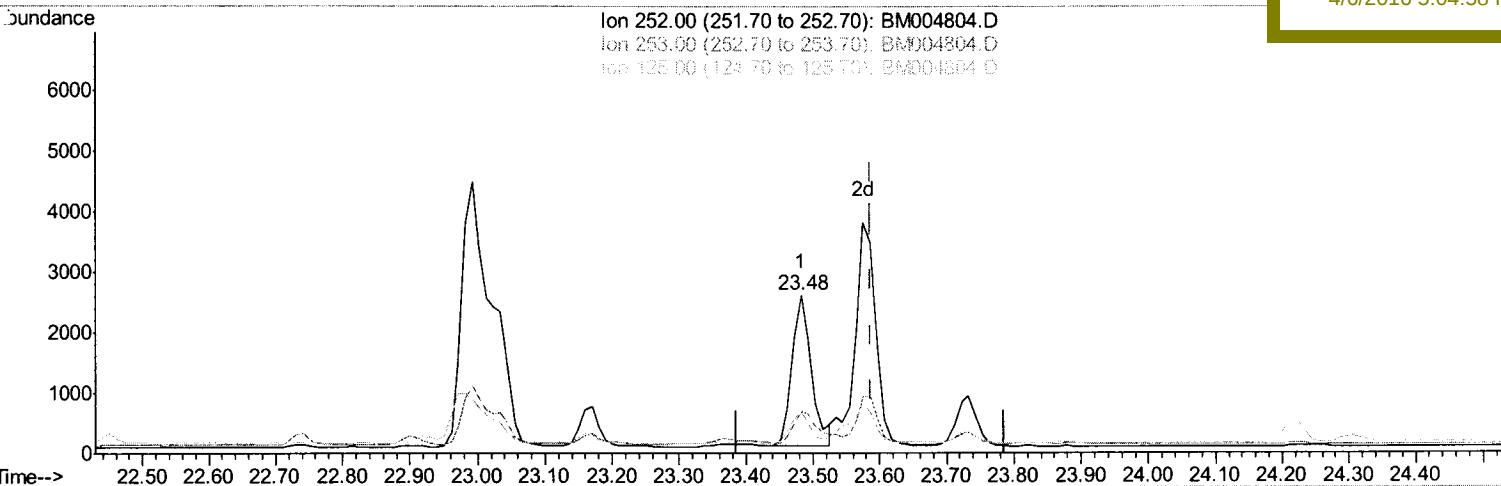
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
Data File : BM004804.D
Acq On : 28 Mar 2016 13:31
Operator : UM/SJ
Sample : H1909-16DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4T50DL

Manual Integrations
APPROVED

Sohil
4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004804.D

(25) Benzo(a)pyrene (C)

23.482min (-0.105) 0.40ng/ul

response 5136

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	26.82
125.00	15.90	26.06#
0.00	0.00	0.00

Quantitation Report (Qedit)

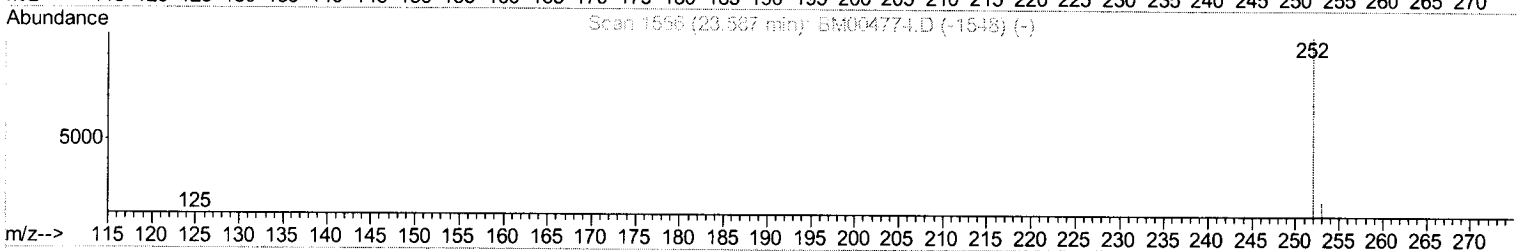
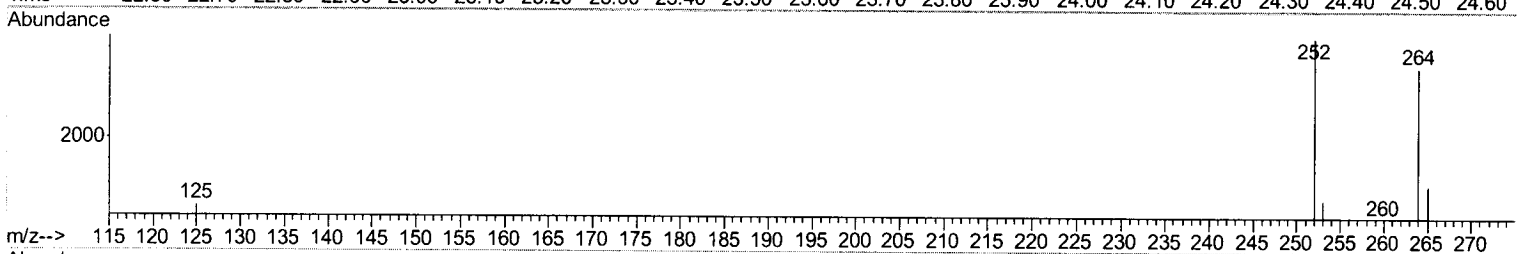
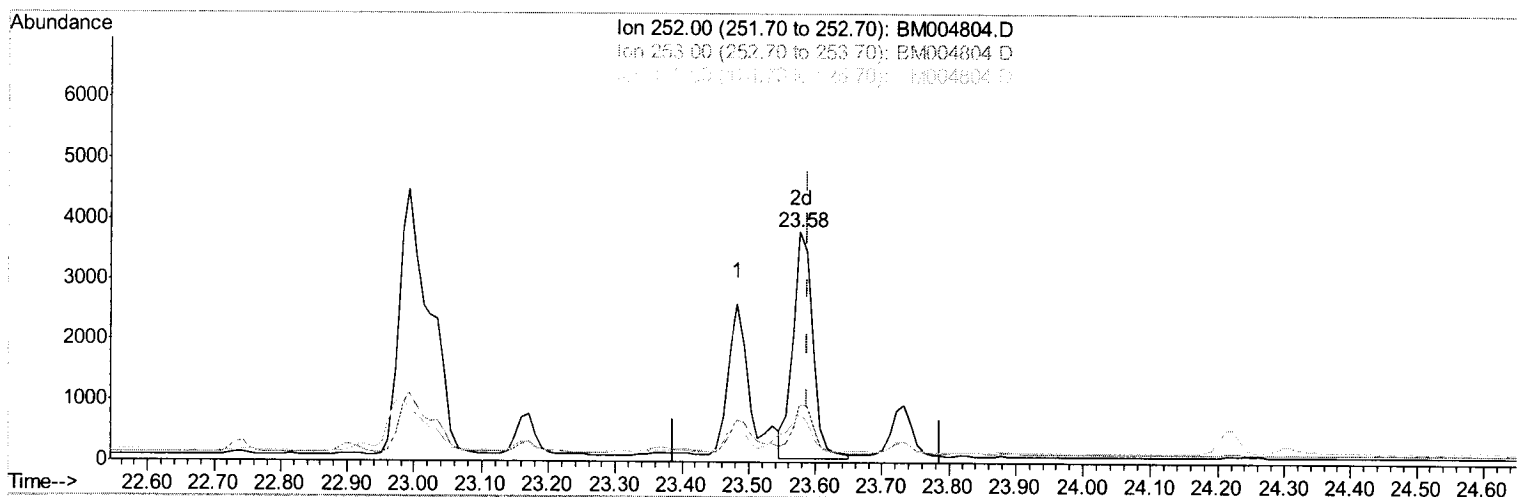
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



TIC: BM004804.D

(25) Benzo(a)pyrene (C)

23.576min (-0.011) 0.61ng/ul m

response 7834

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	24.47
125.00	15.90	20.99#
0.00	0.00	0.00

U.M
 04/07/16

Quantitation Report (Qedit)

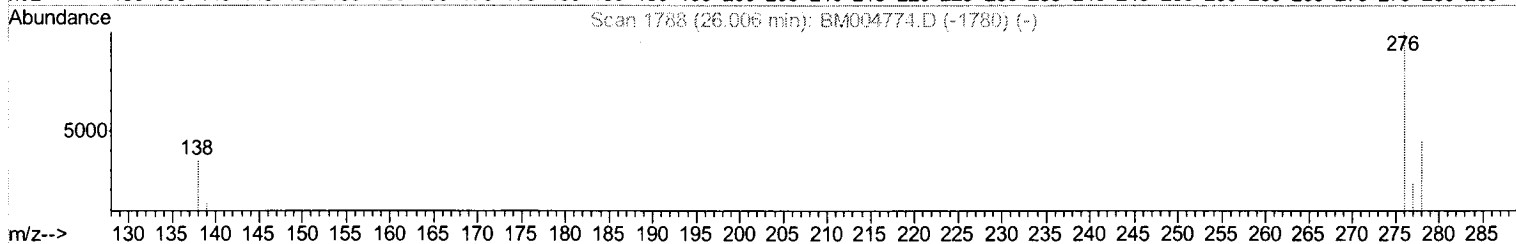
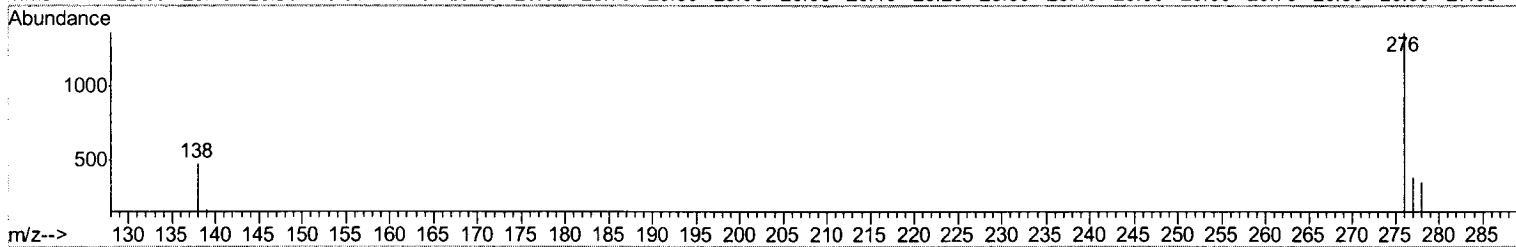
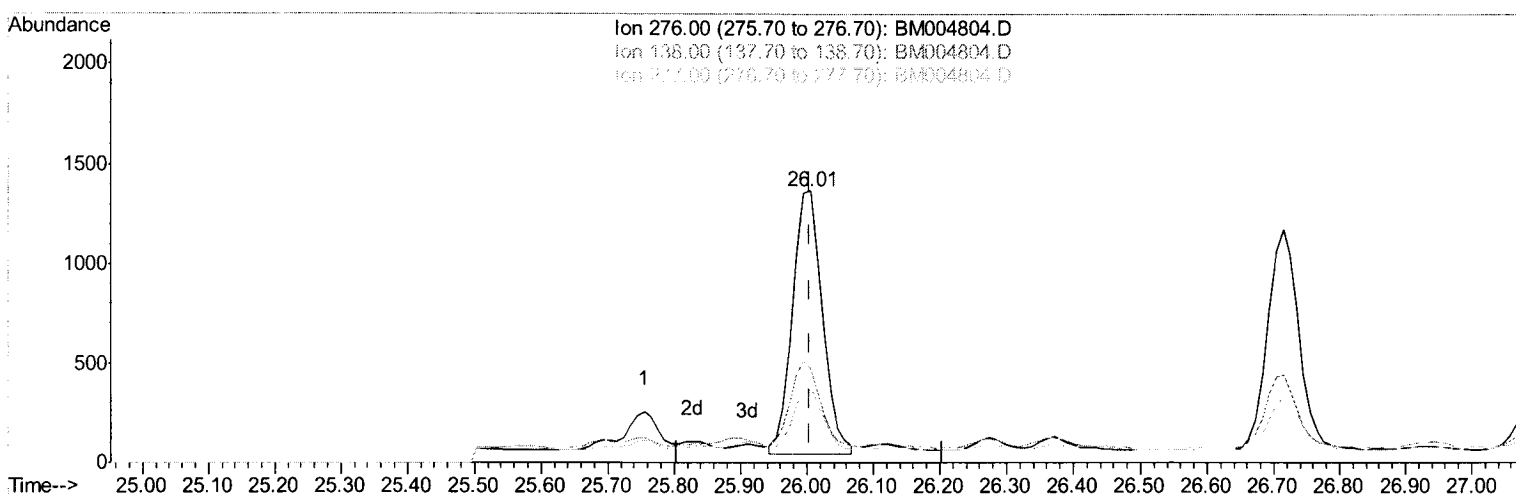
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration



TIC: BM004804.D

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

26.005min (-0.001) 0.35ng/ul m

response 4156

Ion	Exp%	Act%
276.00	100	100
138.00	20.40	2.72#
277.00	24.80	3.15#
0.00	0.00	0.00

U.M
 04/07/16

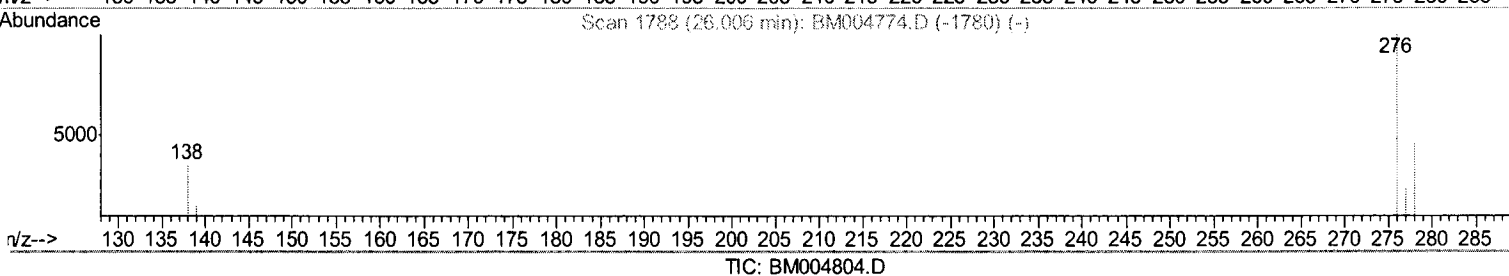
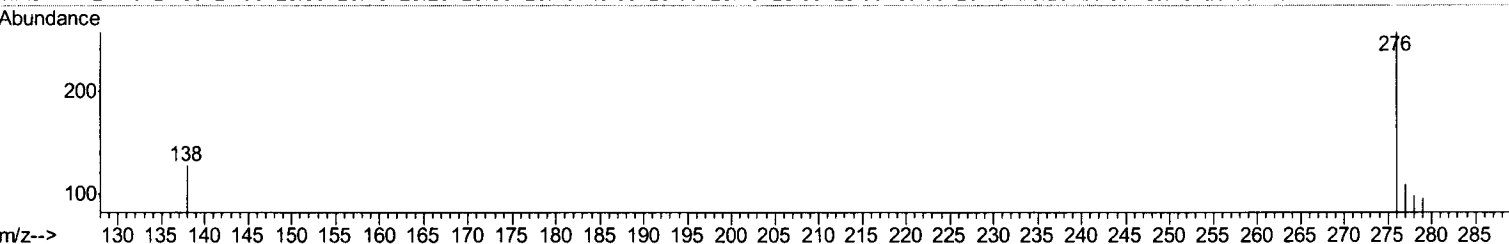
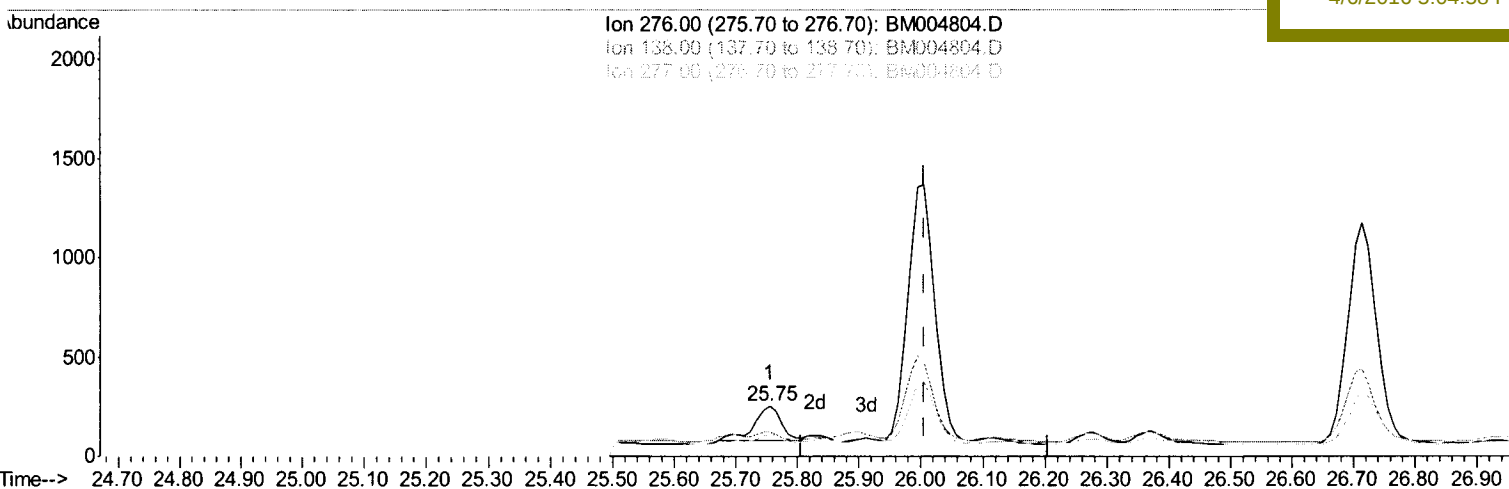
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
Data File : BM004804.D
Acq On : 28 Mar 2016 13:31
Operator : UM/SJ
Sample : H1909-16DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4T50DL

Quant Time: Apr 05 19:23:00 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Manual Integrations
APPROVED

Sohil
4/6/2016 5:04:58 PM



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

25.755min (-0.251) 0.05ng/ul

response 534

Ion	Exp%	Act%
276.00	100	100
138.00	20.40	21.16
277.00	24.80	24.53
0.00	0.00	0.00

Quantitation Report (Qedit)

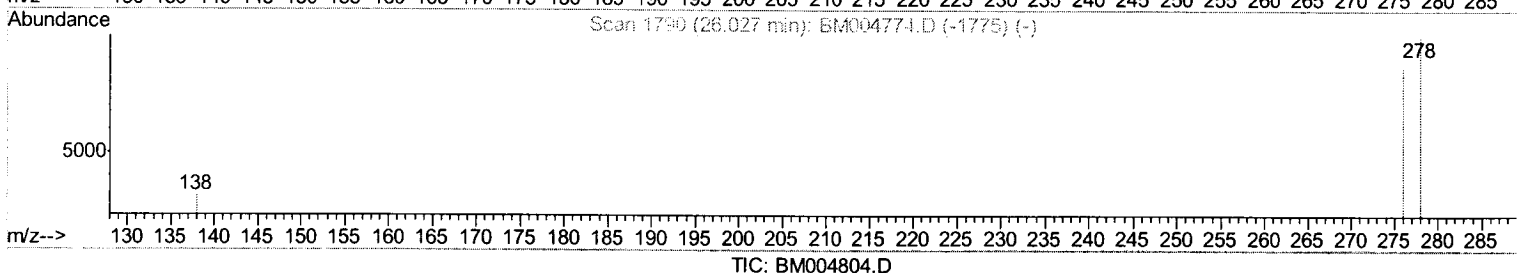
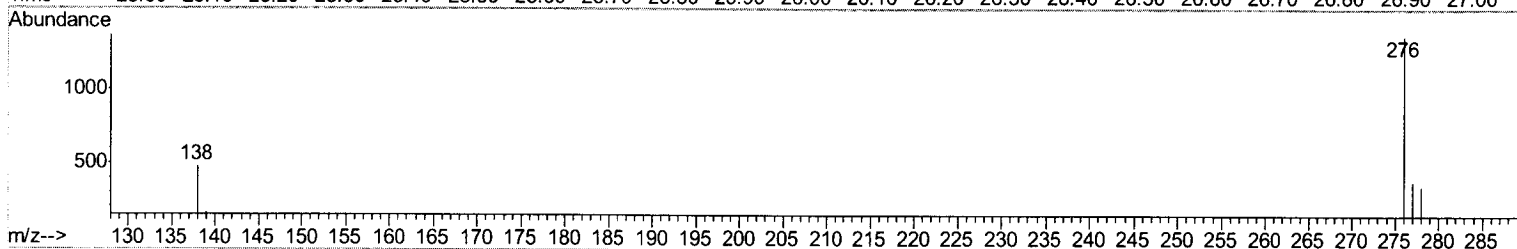
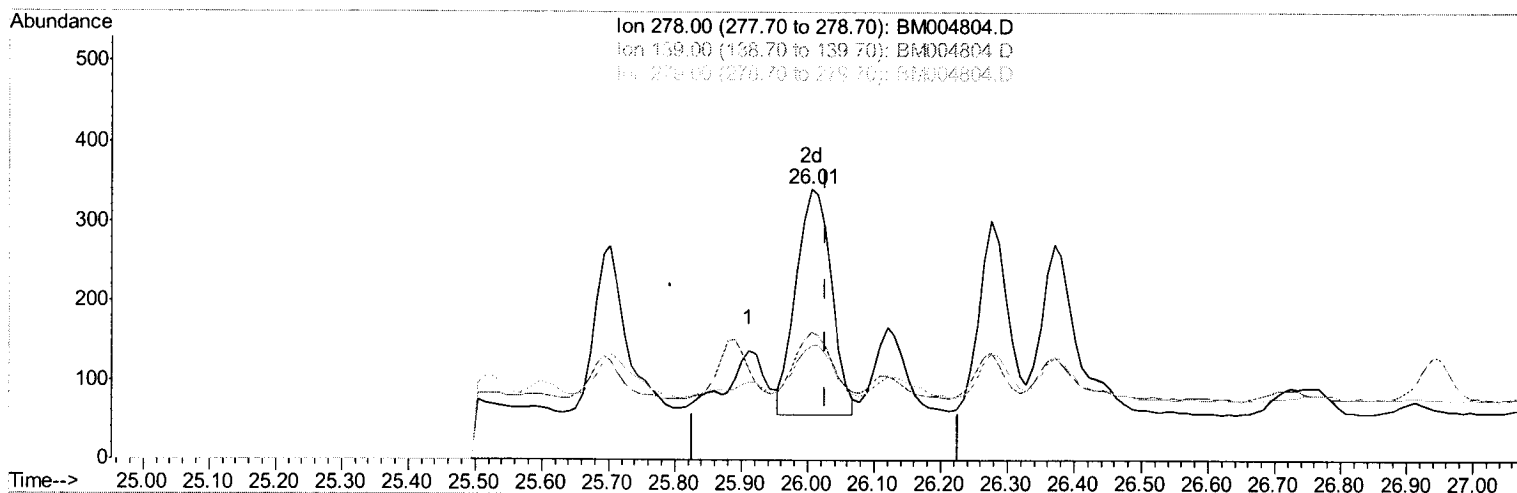
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



(27) Dibenzo(a,h)anthracene

26.005min (-0.021) 0.11ng/ul m

response 1055

Ion Exp% Act%

278.00 100 100

139.00 20.50 47.08#

279.00 25.20 42.40#

0.00 0.00 0.00

U.M
 04/07/16

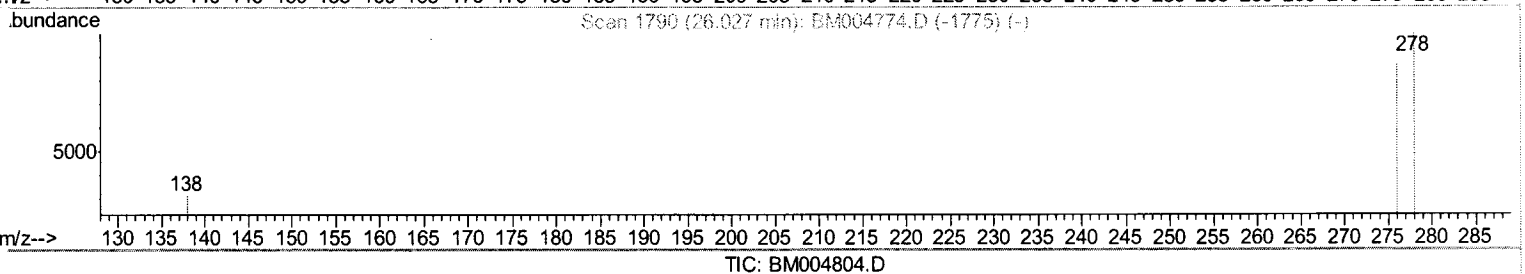
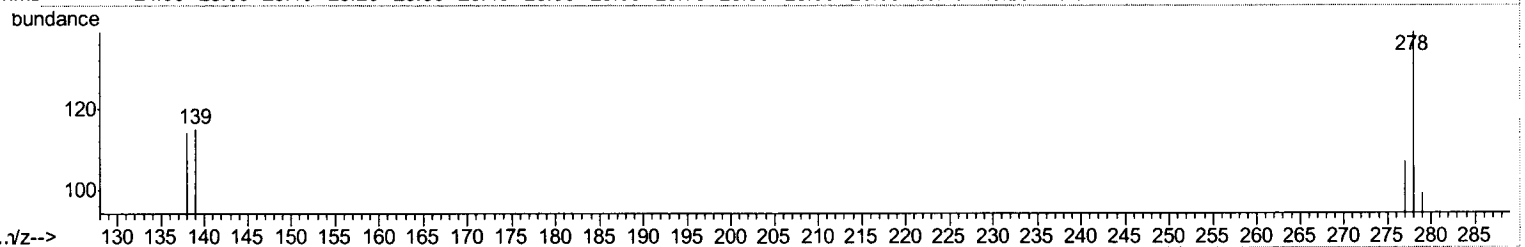
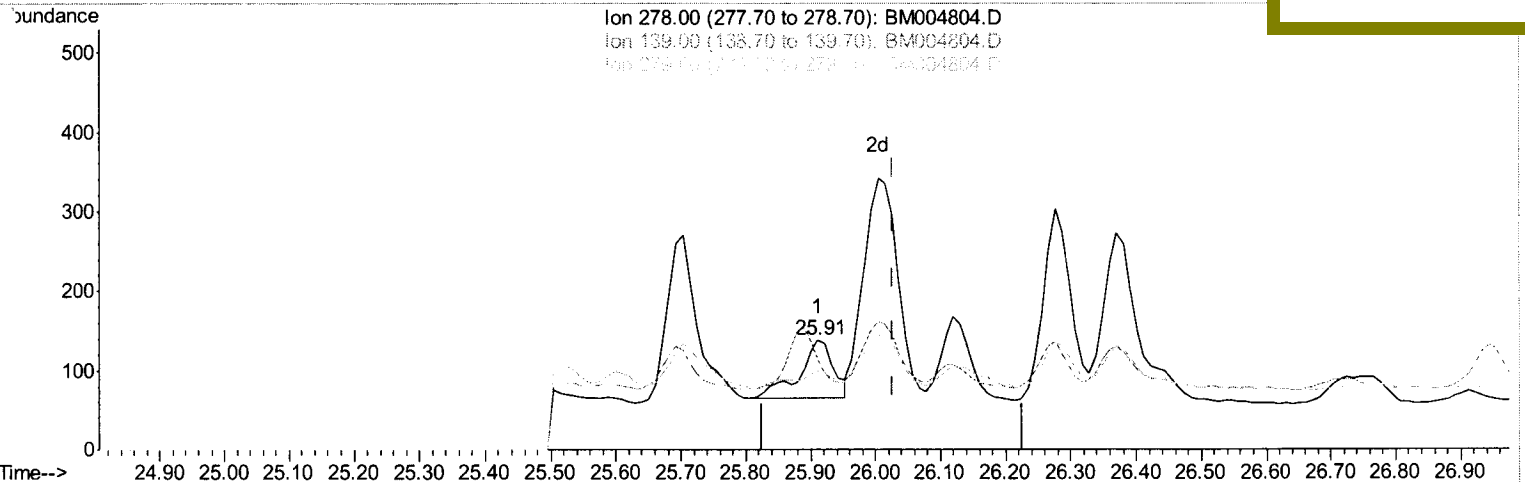
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
Data File : BM004804.D
Acq On : 28 Mar 2016 13:31
Operator : UM/SJ
Sample : H1909-16DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4T50DL

Quant Time: Apr 05 19:23:00 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

Sohil
4/6/2016 5:04:58 PM



(27) Dibenzo(a,h)anthracene

25.911min (-0.115) 0.03ng/ul

response 265

Ion	Exp%	Act%
278.00	100	100
139.00	20.50	82.73#
279.00	25.20	71.22#
0.00	0.00	0.00

Quantitation Report (Qedit)

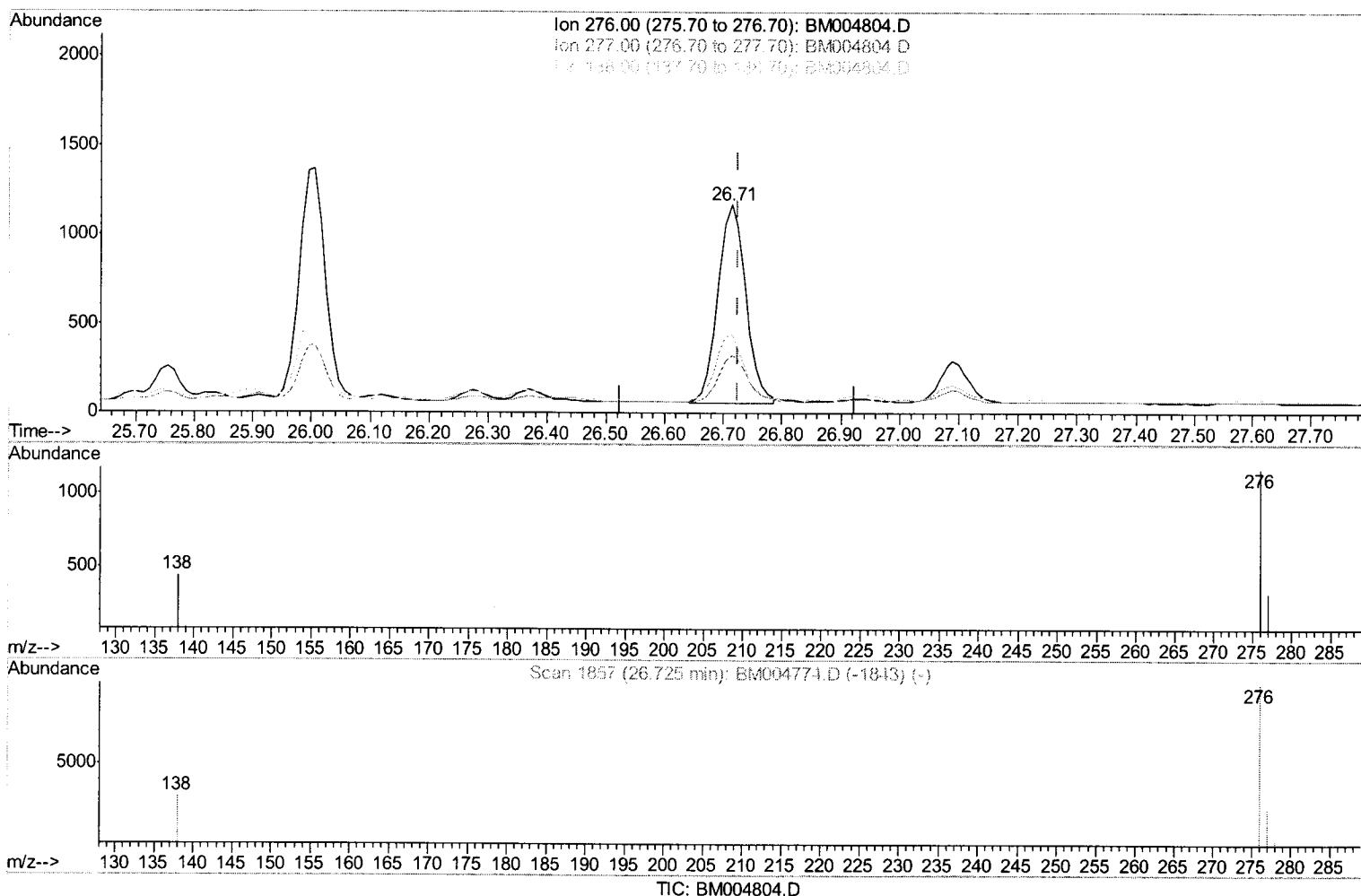
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
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 4/6/2016 5:04:58 PM

Quant Time: Apr 05 19:23:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration



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

26.714min (-0.011) 0.37ng/ul m

response 3676

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	27.73
138.00	28.10	37.46#
0.00	0.00	0.00

U.M
 24/07/16

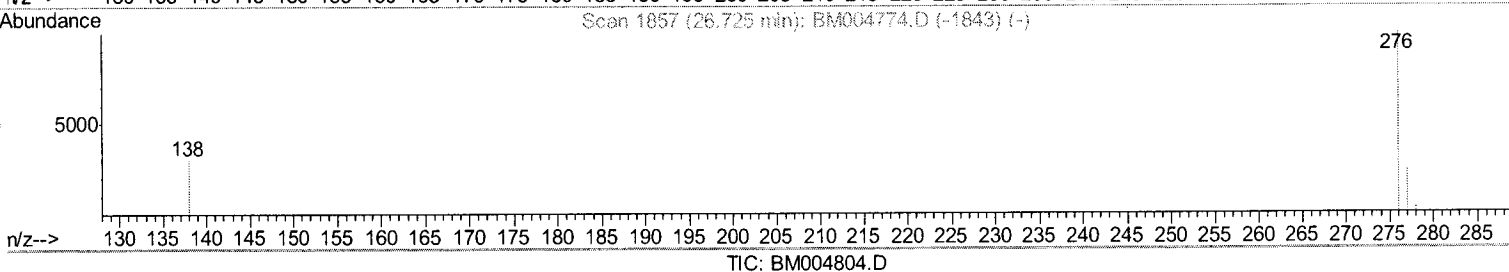
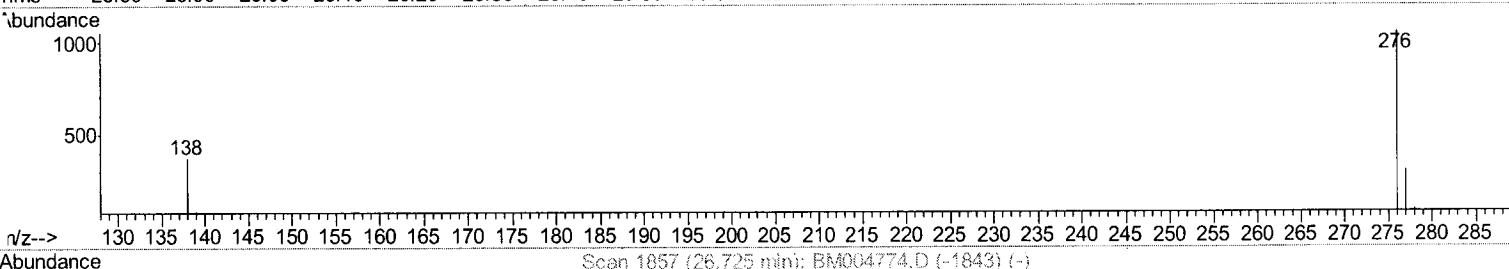
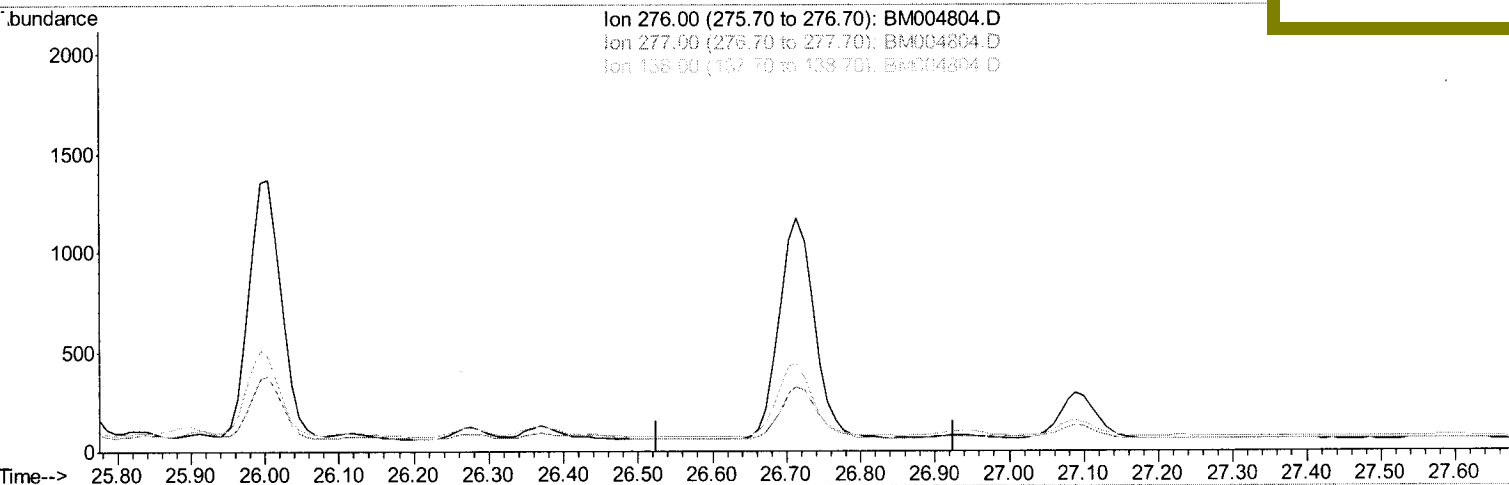
Data Path : Z:\HPCHEM1\BNA M\Data\BM032816\
Data File : BM004804.D
Acq On : 28 Mar 2016 13:31
Operator : UM/SJ
Sample : H1909-16DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4T50DL

Quant Time: Apr 05 19:23:00 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

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4/6/2016 5:04:58 PM



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

26.725min (-26.725) 0.00ng/ul

response 0

Ion	Exp%	Act%
276.00	100	0.00
277.00	23.60	0.00#
138.00	28.10	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032816\
 Data File : BM004804.D
 Acq On : 28 Mar 2016 13:31
 Operator : UM/SJ
 Sample : H1909-16DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4T50DL

Manual Integrations
 APPROVED

Sohil
 4/6/2016 5:04:58 PM

Quant Time: Apr 06 14:33:07 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 18:29:16 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	842	0.40	ng/ul	0.00
4) Naphthalene-d8	10.62	136	3866	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.47	164	2261	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.21	188	5140m	0.40	ng/ul	0.00
18) Chrysene-d12	21.39	240	5397	0.40	ng/ul	-0.01
22) Perylene-d12	23.68	264	4987m	0.40	ng/ul	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 1,4-Dioxane-d8	3.32	96	2516	6.63	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.22	152	1022	0.19	ng/ul	0.00
16) Fluoranthene-d10	19.24	212	2485	0.20	ng/ul	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Naphthalene	10.67	128	254	0.03	ng/ul#	39
9) Acenaphthylene	14.18	152	463	0.04	ng/ul#	71
10) Acenaphthene	14.52	153	345	0.05	ng/ul#	87
11) Fluorene	15.51	166	458	0.05	ng/ul#	85
14) Phenanthrene	17.24	178	8851	0.61	ng/ul	96
15) Anthracene	17.33	178	2251	0.16	ng/ul#	91
17) Fluoranthene	19.27	202	14196	0.86	ng/ul	97
19) Pyrene	19.63	202	15014	0.81	ng/ul	96
20) Benzo(a)anthracene	21.38	228	7813	0.47	ng/ul	95
21) Chrysene	21.43	228	7171	0.45	ng/ul	95
23) Benzo(b)fluoranthene	22.99	252	9844m	0.59	ng/ul	
24) Benzo(k)fluoranthene	23.01	252	4272m	0.27	ng/ul	
25) Benzo(a)pyrene	23.58	252	7834m	0.51	ng/ul	
26) Indeno(1,2,3-cd)pyrene	26.01	276	4156m	0.29	ng/ul	
27) Dibenzo(a,h)anthracene	26.01	278	1055m	0.09	ng/ul	
28) Benzo(g,h,i)perylene	26.71	276	3676m	0.31	ng/ul	

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