

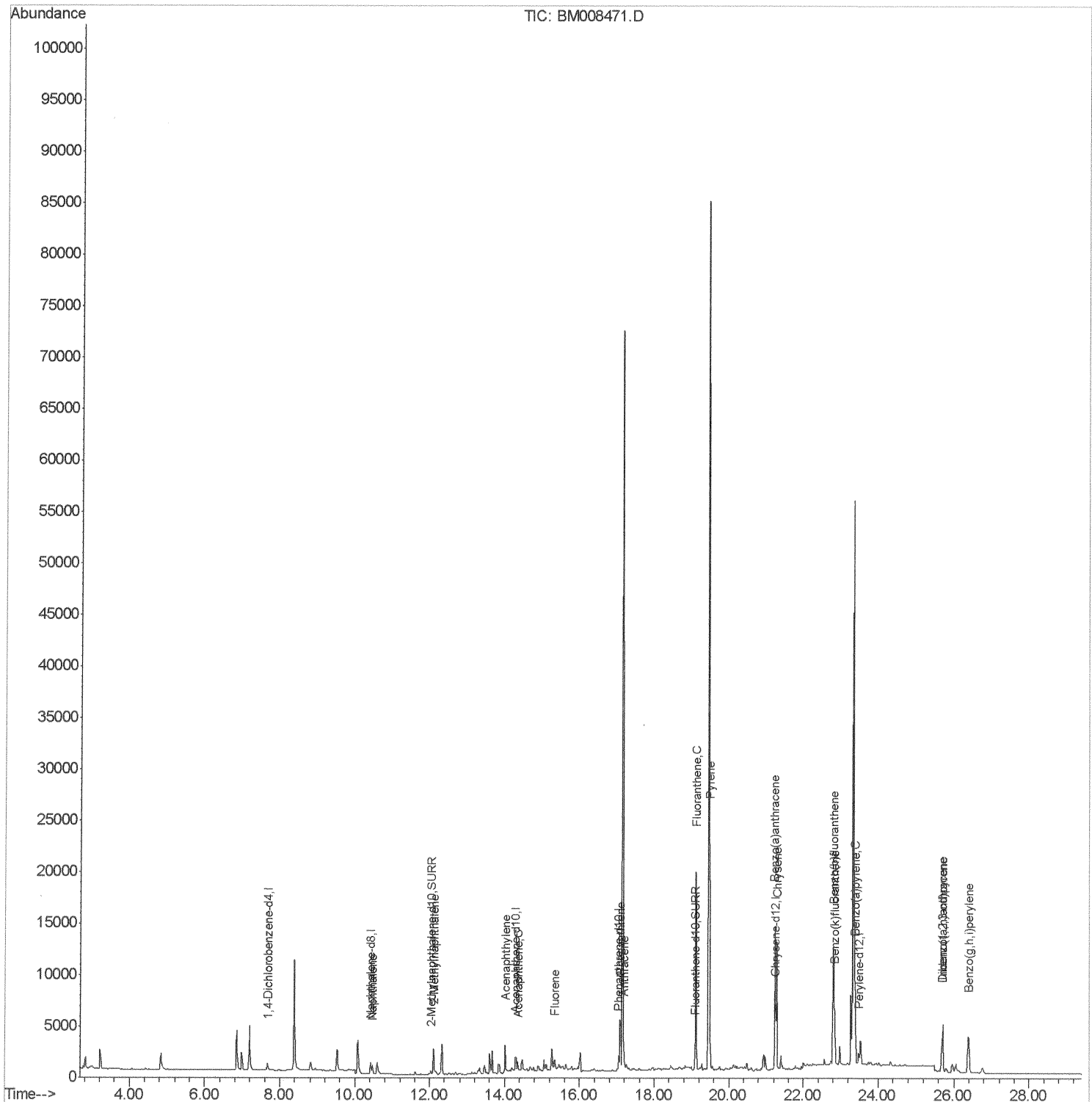
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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sohil
12/20/2016 6:31:39 PM

Quant Time: Dec 20 14:21:22 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



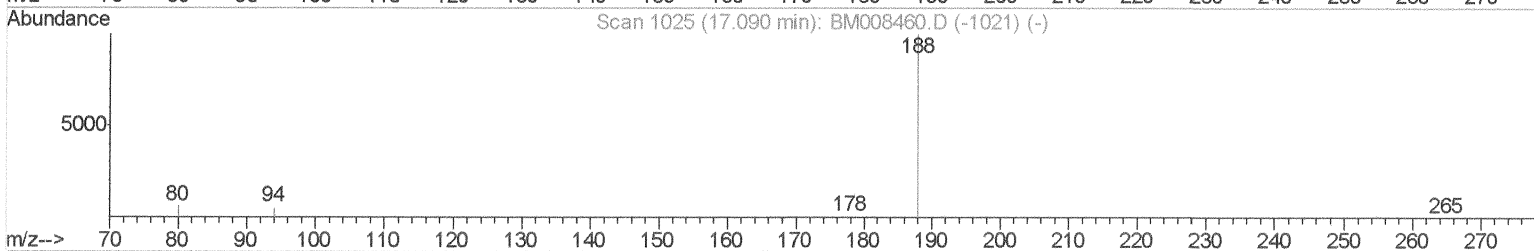
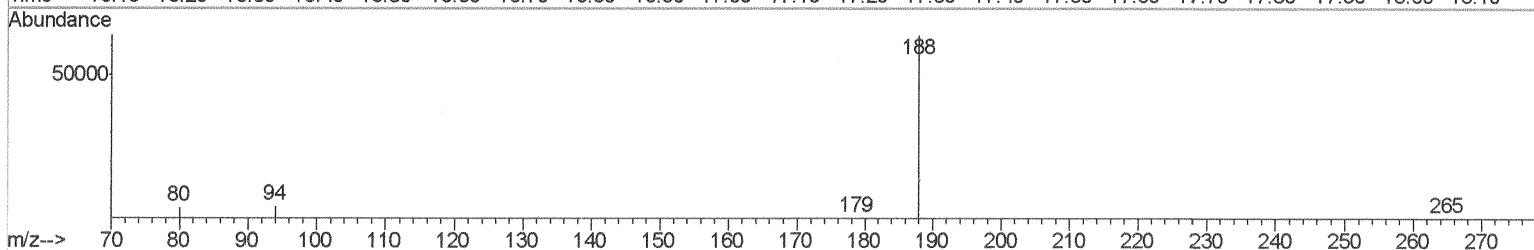
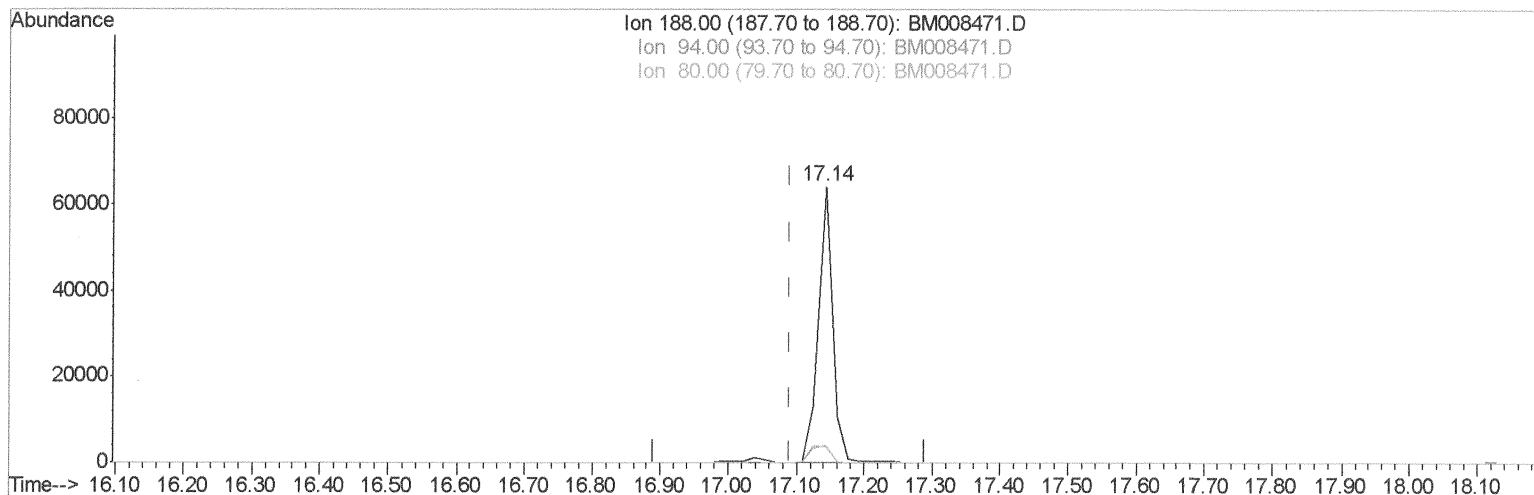
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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12/20/2016 6:31:39 PM

Quant Time: Dec 20 14:17:02 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(10) Phenanthrene-d10 (I)

17.142min (+0.052) 0.40ng/ul

response 90744

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	6.57#
80.00	11.80	5.83#
0.00	0.00	0.00

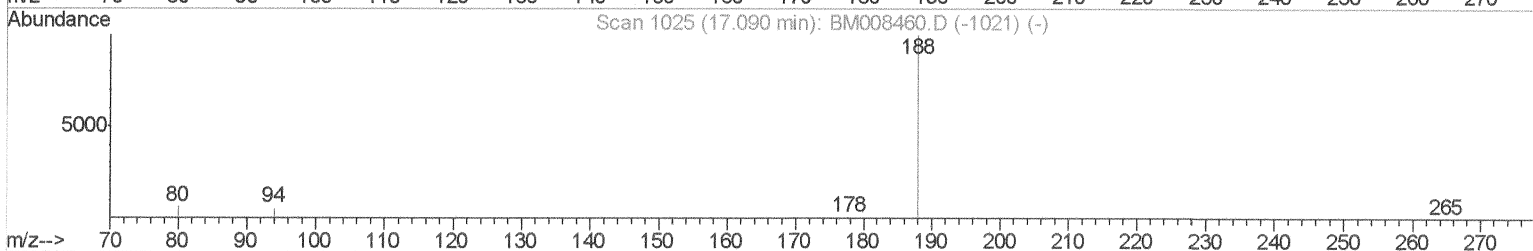
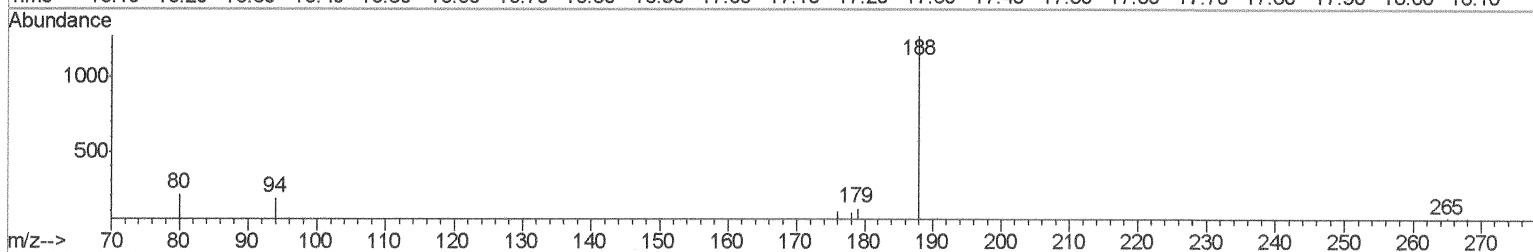
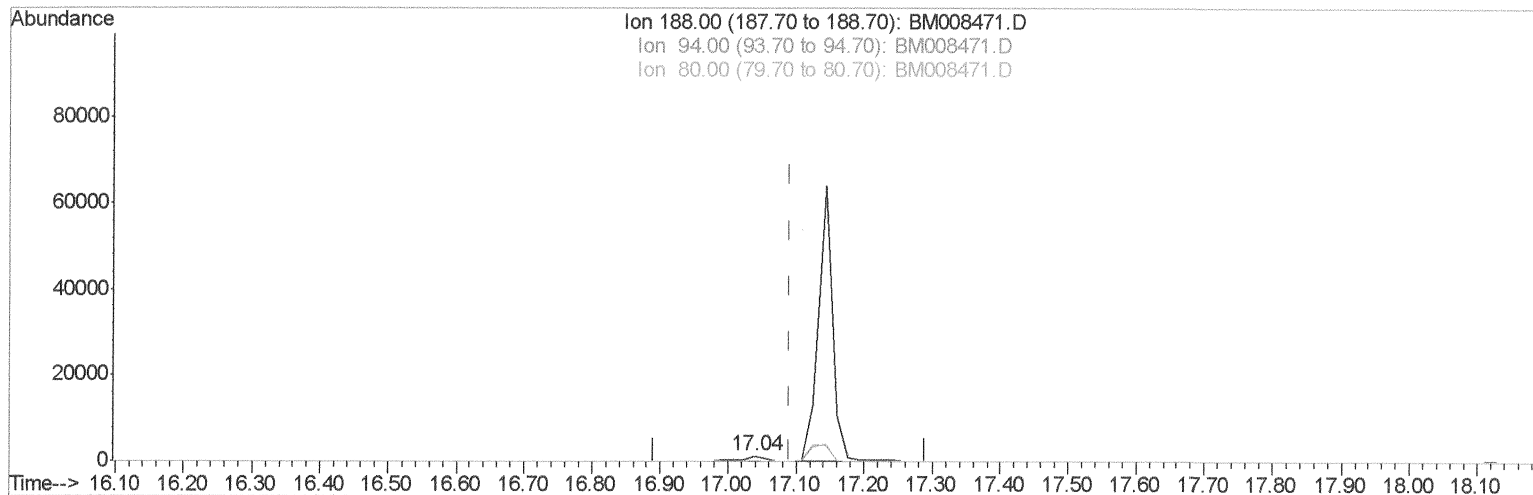
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
APPROVED

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Quant Time: Dec 20 14:17:02 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(10) Phenanthrene-d10 (I)

17.039min (-0.051) 0.40ng/ul m SJ 12/21/16

response 1853

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	14.43#
80.00	11.80	16.38#
0.00	0.00	0.00

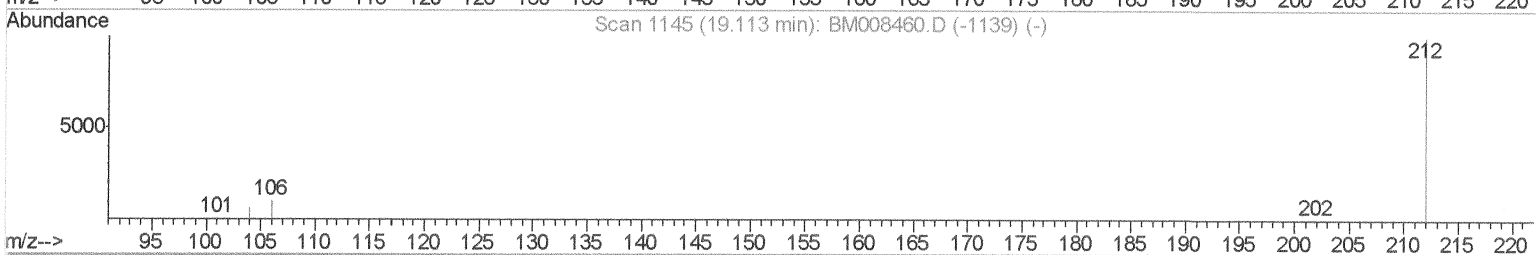
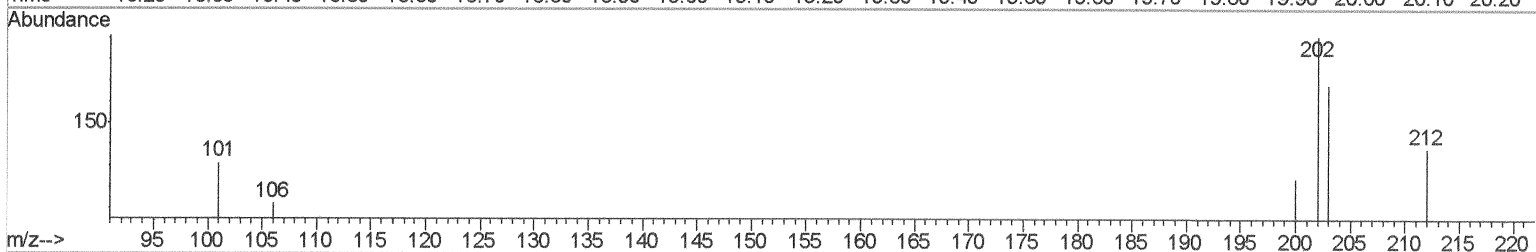
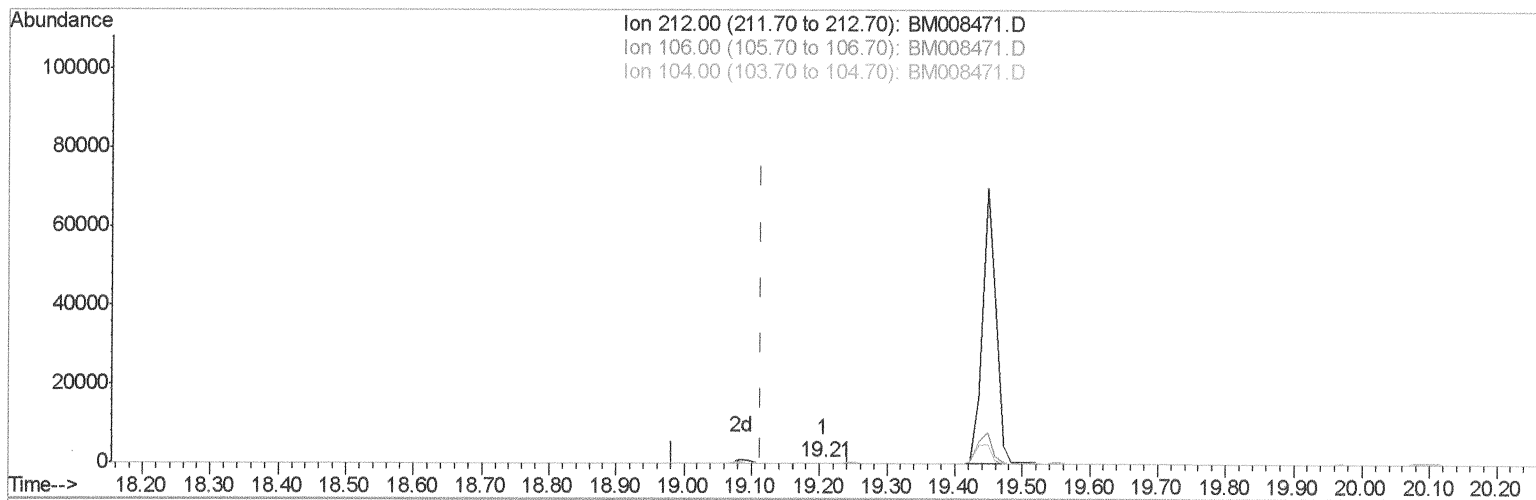
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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Quant Time: Dec 20 14:17:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(14) Fluoranthene-d10 (SURR)

19.205min (+0.092) 0.02ng/ul

response 109

Ion	Exp%	Act%
212.00	100	100
106.00	18.30	0.00#
104.00	15.60	15.60
0.00	0.00	0.00

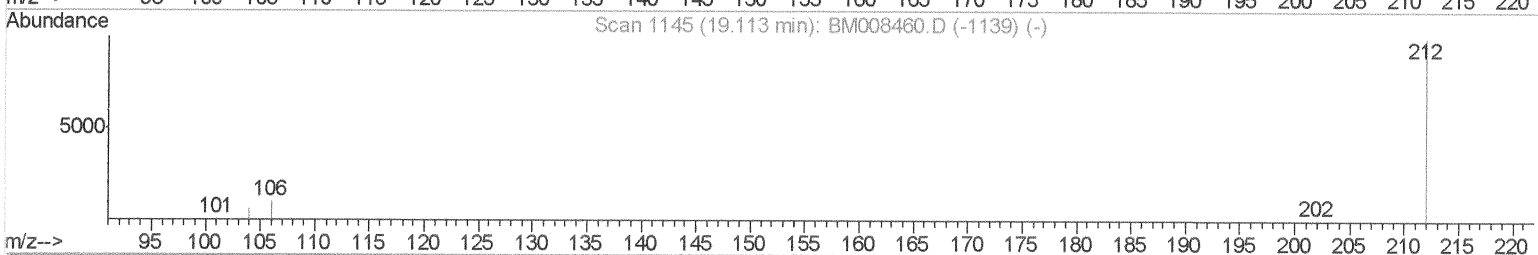
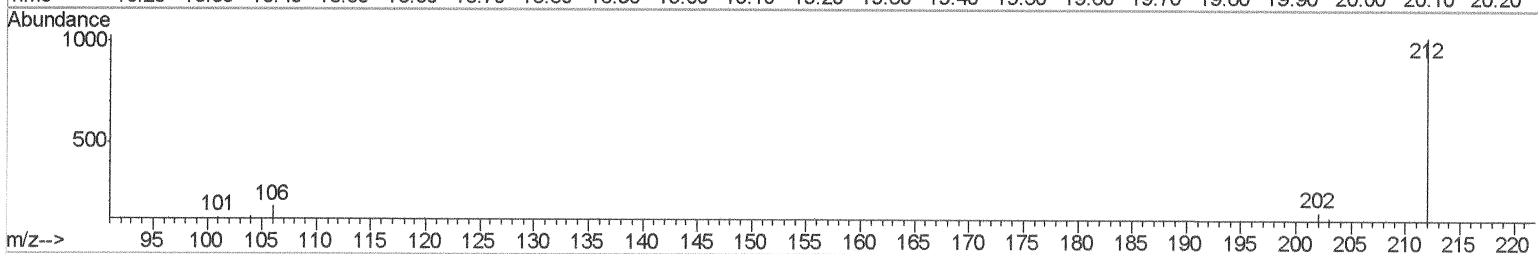
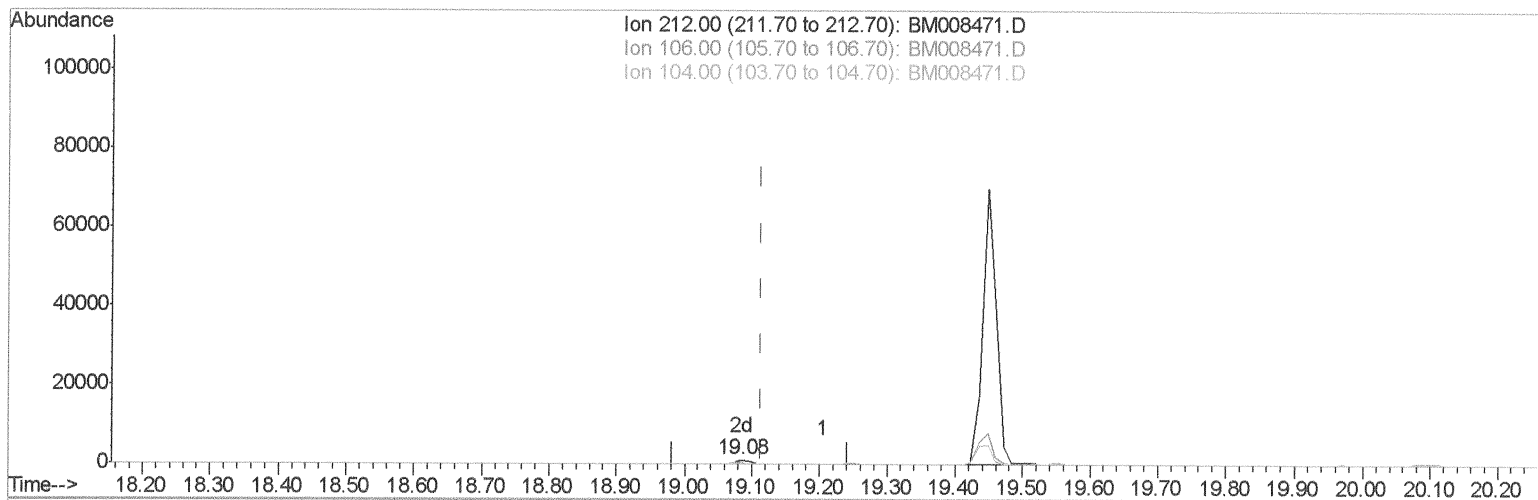
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
APPROVED

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Quant Time: Dec 20 14:17:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(14) Fluoranthene-d10 (SURR)

19.084min (-0.029) 0.27ng/ul m SJ 12/21/16

response 1391

Ion	Exp%	Act%
212.00	100	100
106.00	18.30	0.00#
104.00	15.60	1.22#
0.00	0.00	0.00

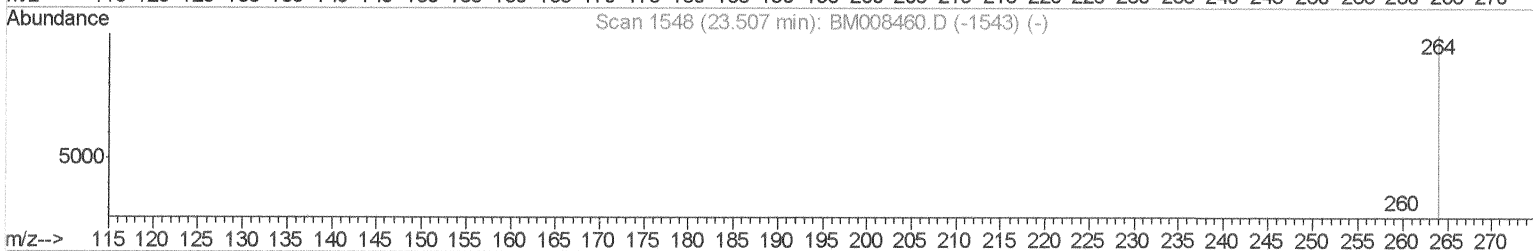
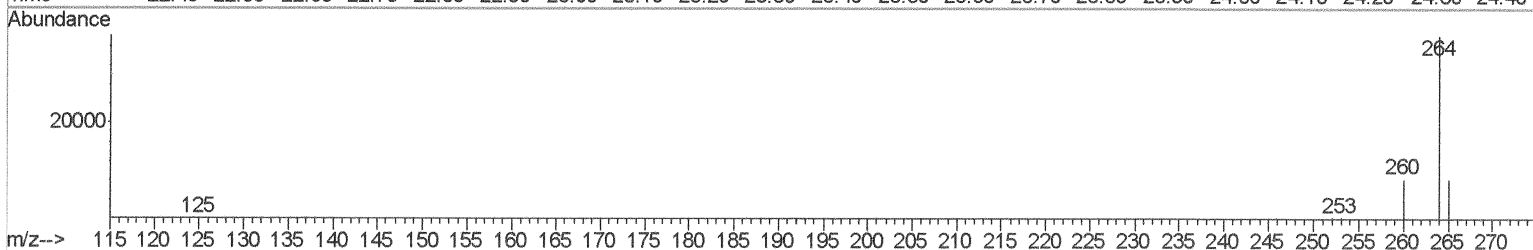
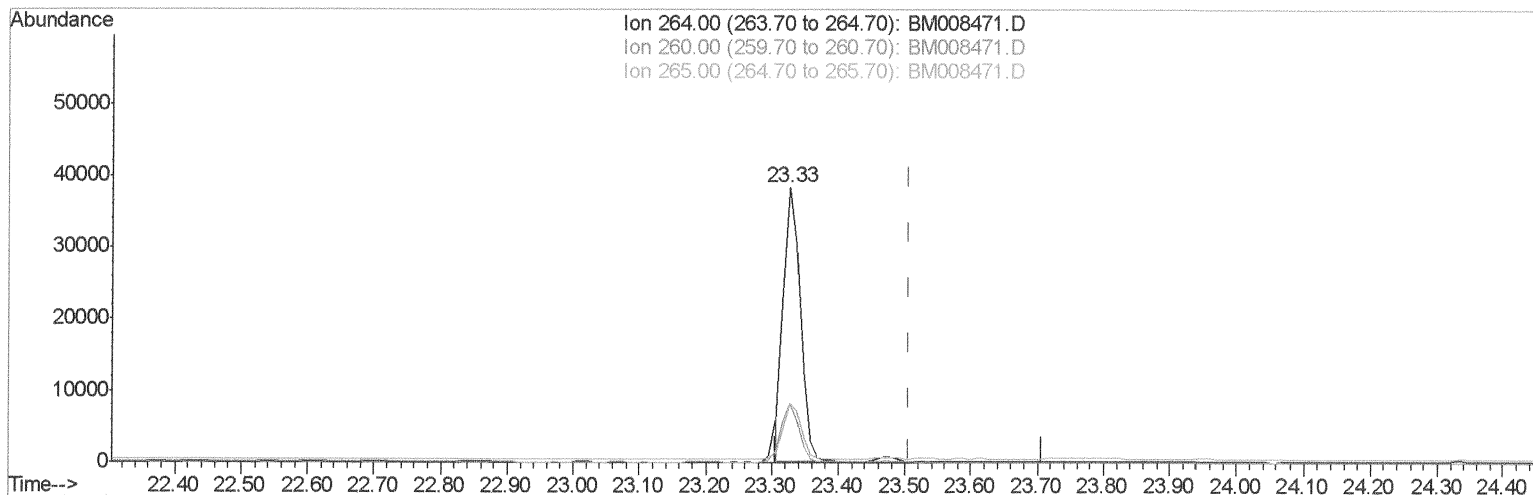
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
APPROVED

sohil
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Quant Time: Dec 20 14:17:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(20) Perylene-d12 (I)
23.326min (-0.180) 0.40ng/ul
response 67336

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	22.04#
265.00	103.50	21.72#
0.00	0.00	0.00

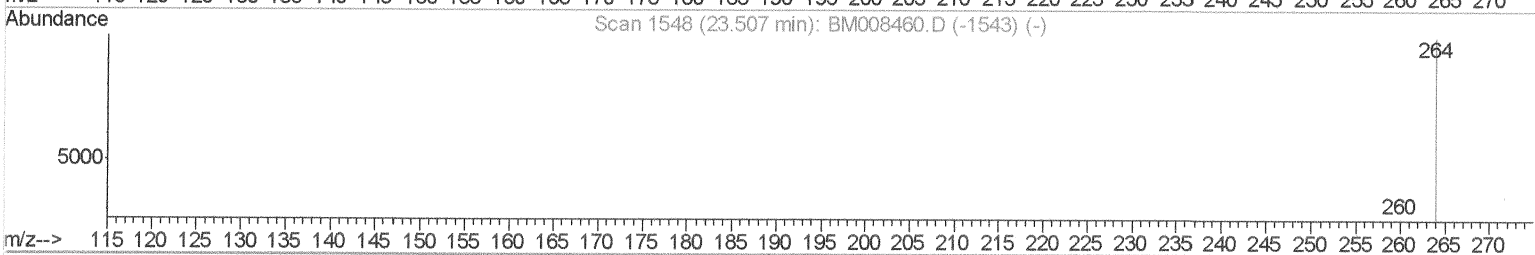
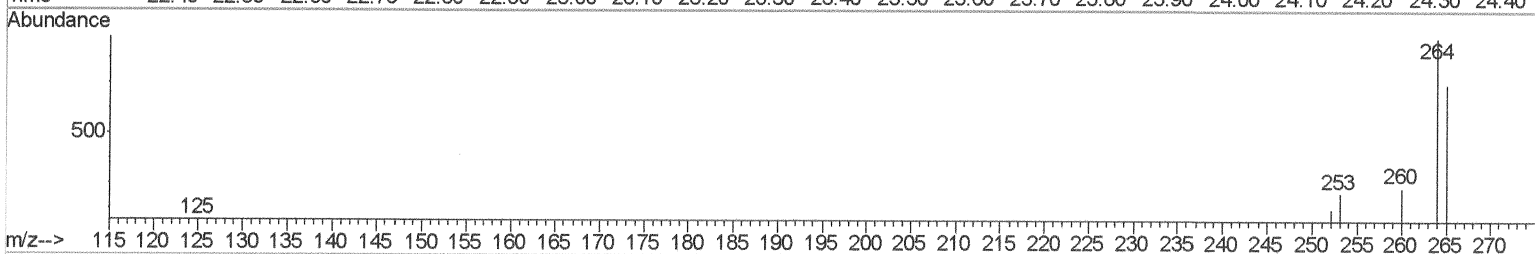
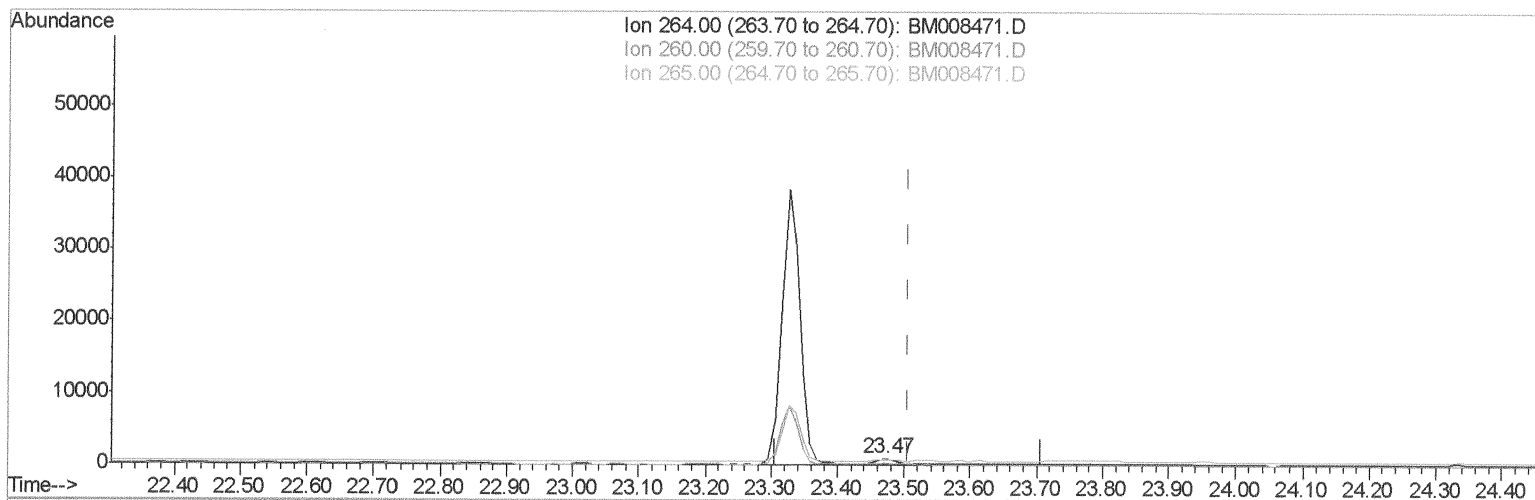
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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Quant Time: Dec 20 14:17:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(20) Perylene-d12 (I)

23.472min (-0.034) 0.40ng/ul m

SJ 12/21/16

response 1372

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	32.13
265.00	103.50	79.26#
0.00	0.00	0.00

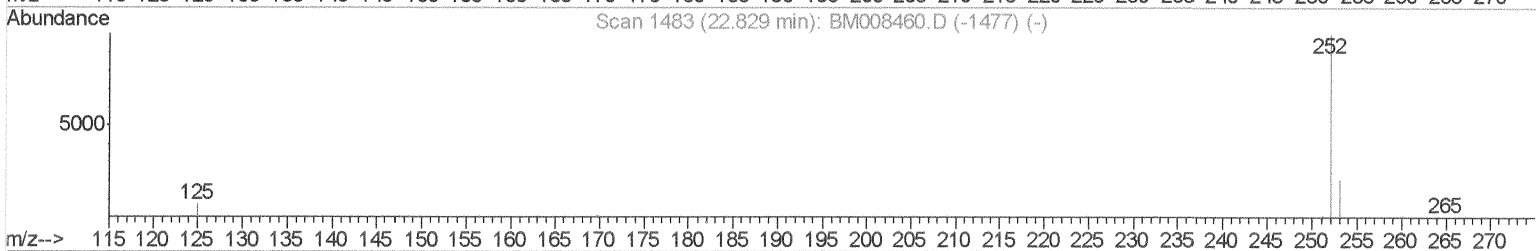
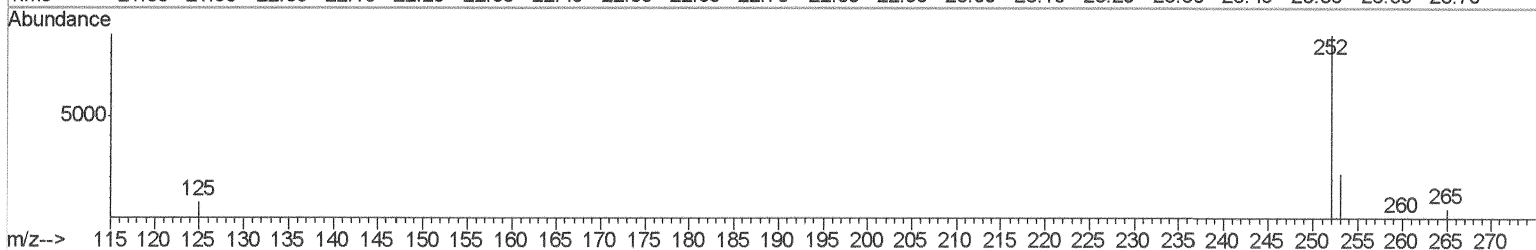
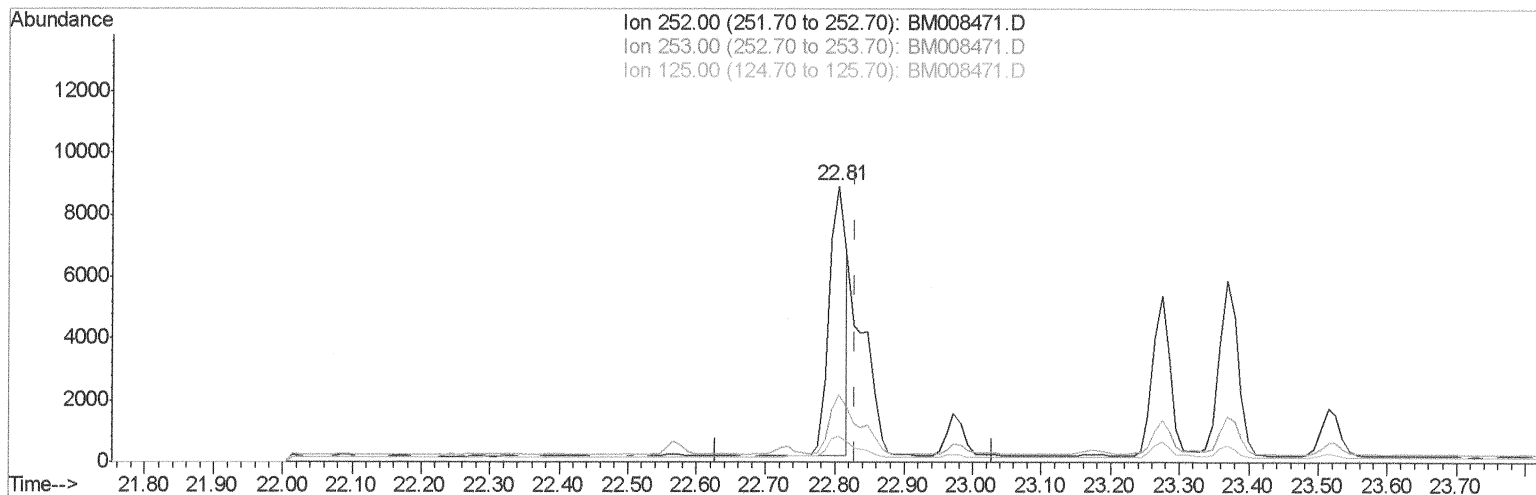
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(21) Benzo(b)fluoranthene

22.805min (-0.024) 2.90ng/ul

response 15696

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	24.58
125.00	17.50	9.52
0.00	0.00	0.00

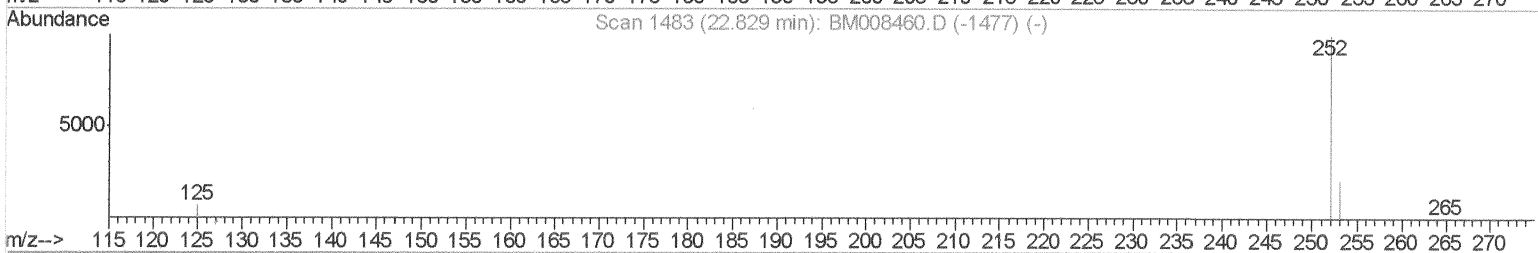
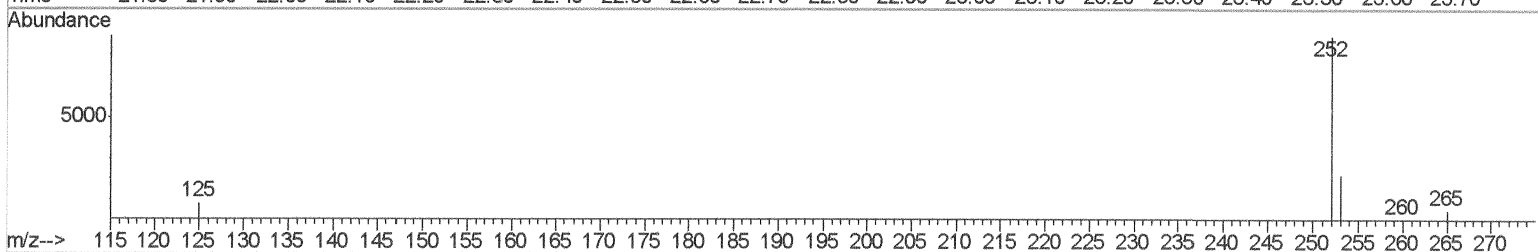
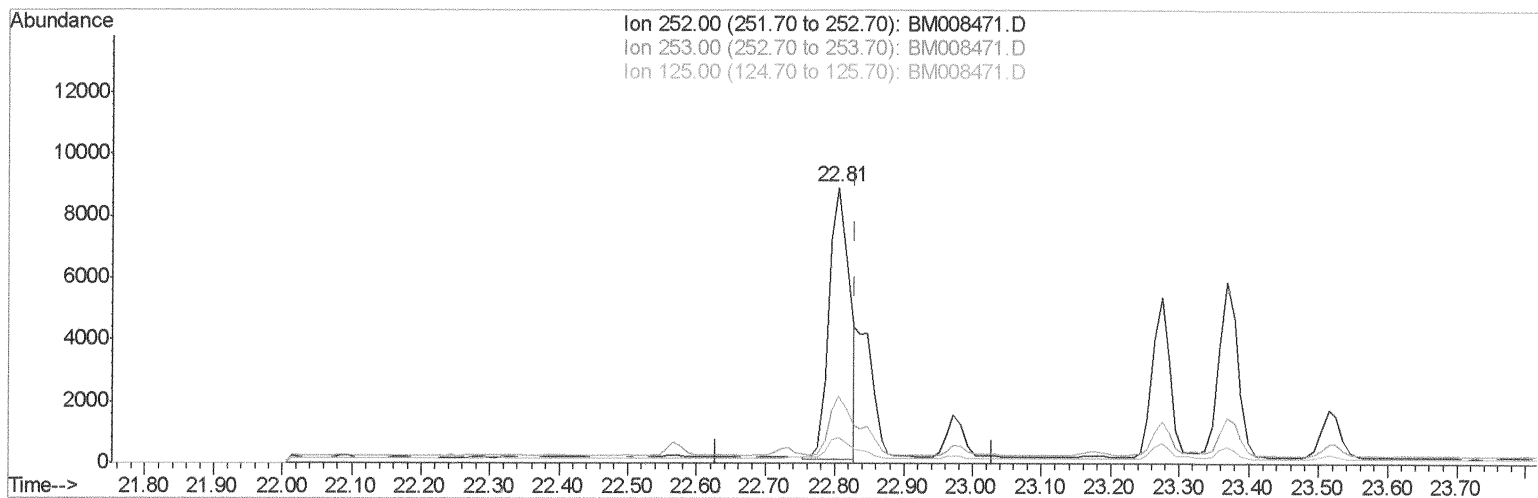
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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sohil
12/20/2016 6:31:39 PM

Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(21) Benzo(b)fluoranthene

22.805min (-0.024) 3.43ng/ul m

SJ 12/21/16

response 18563

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	24.58
125.00	17.50	9.52
0.00	0.00	0.00

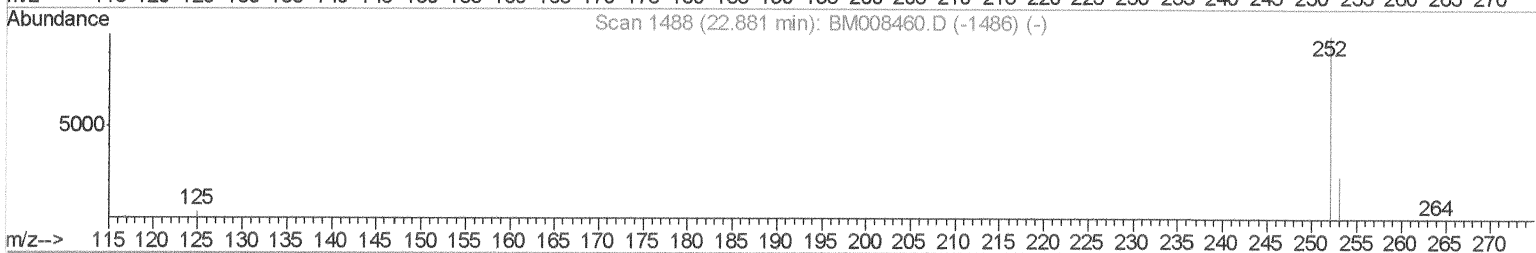
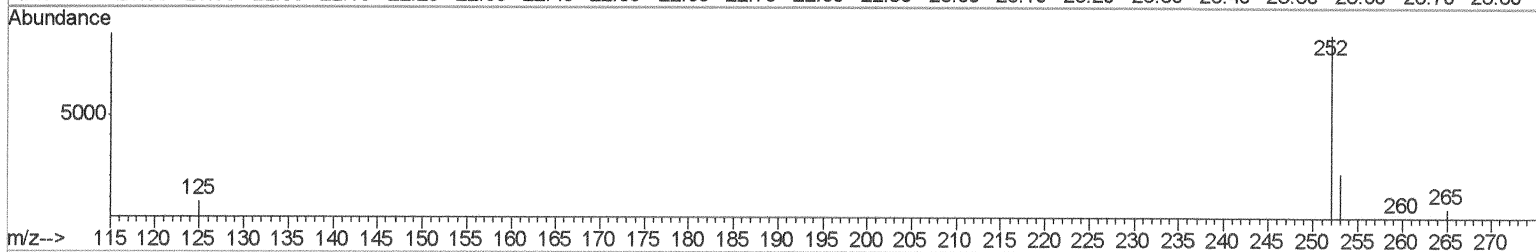
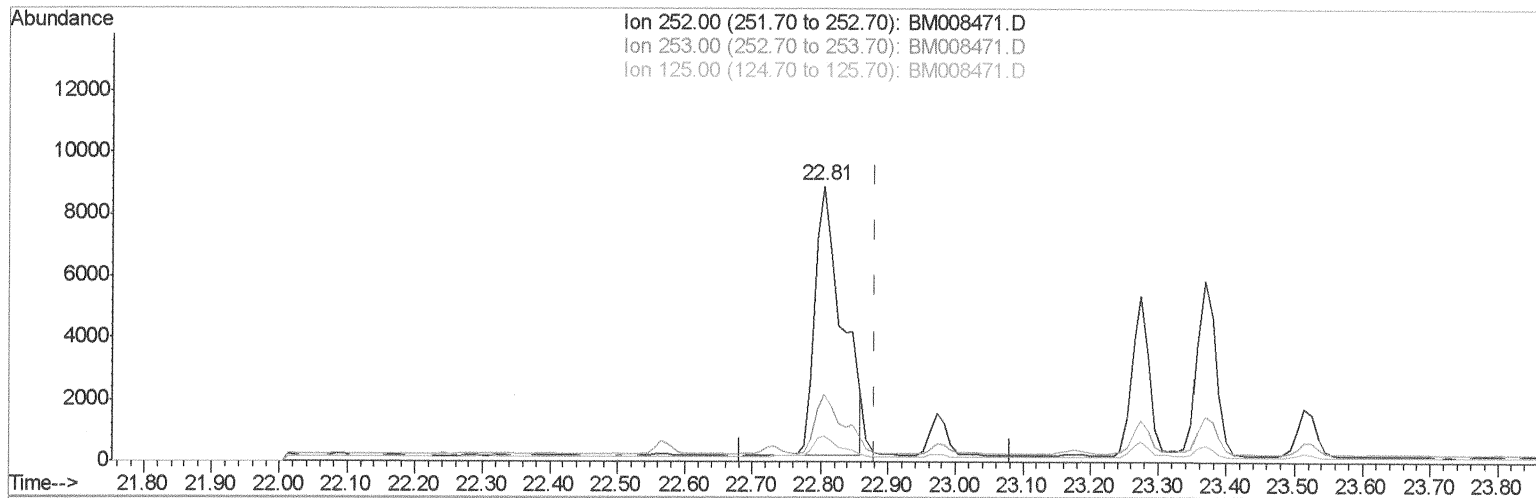
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration



TIC: BM008471.D

(22) Benzo(k)fluoranthene

22.805min (-0.076) 4.67ng/ul

response 24631

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	24.58
125.00	17.10	9.52#
0.00	0.00	0.00

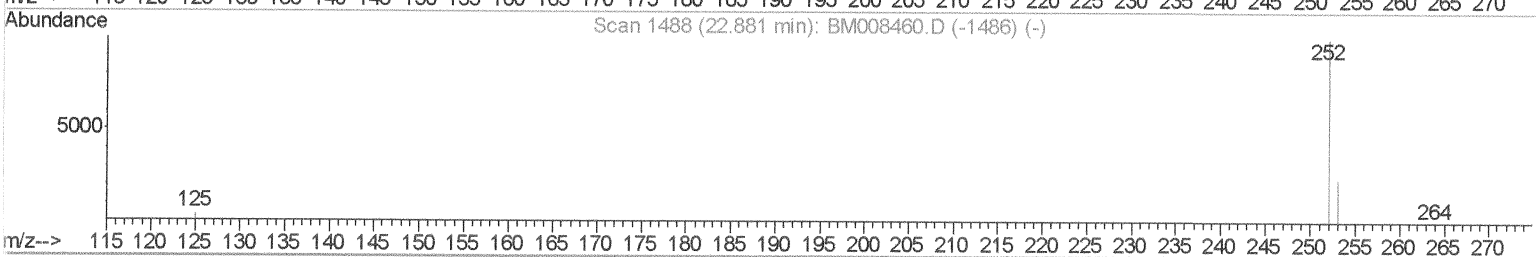
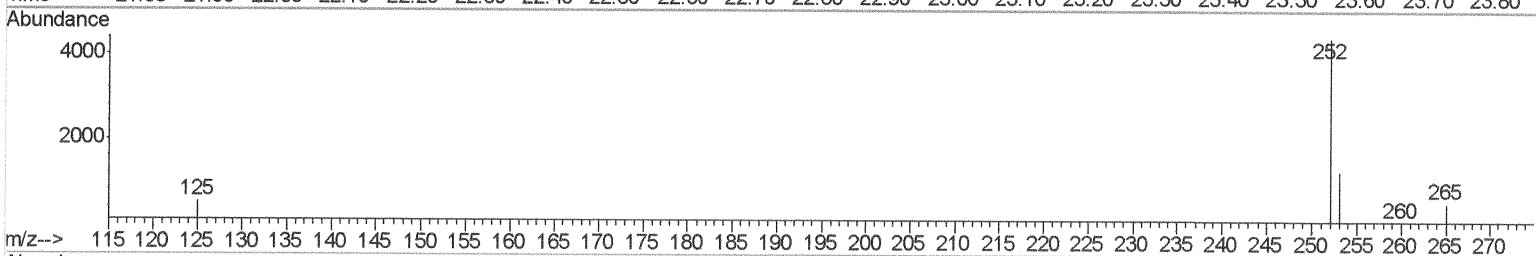
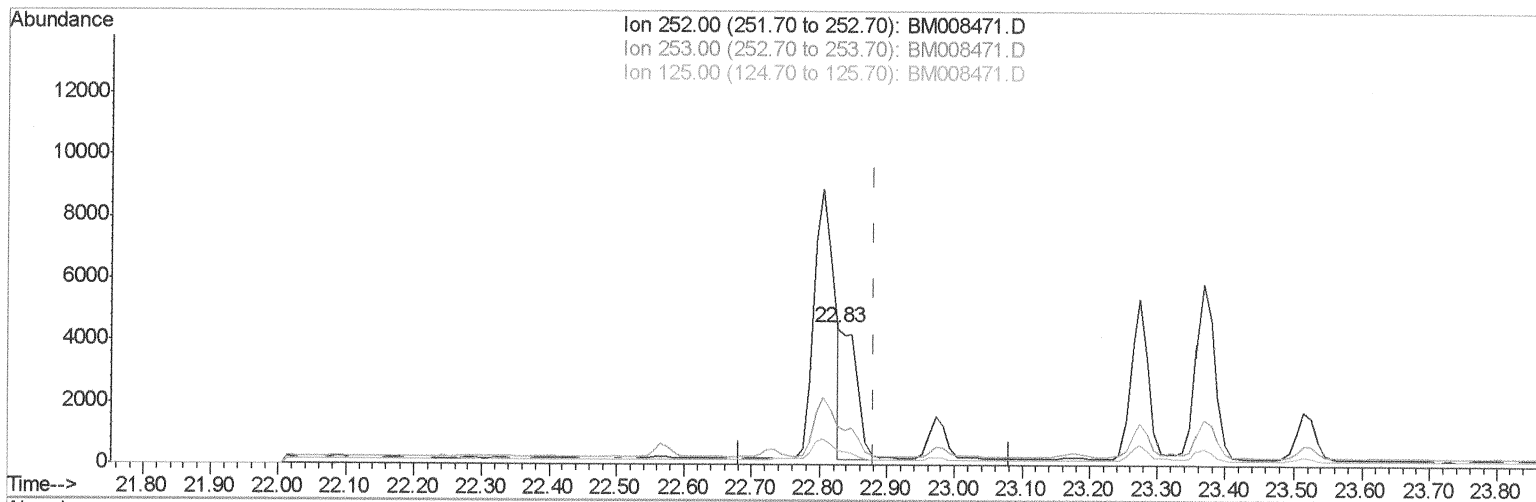
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(22) Benzo(k)fluoranthene

22.826min (-0.055) 1.29ng/ul m SJ 12/21/16

response 6802

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	28.20
125.00	17.10	11.33#
0.00	0.00	0.00

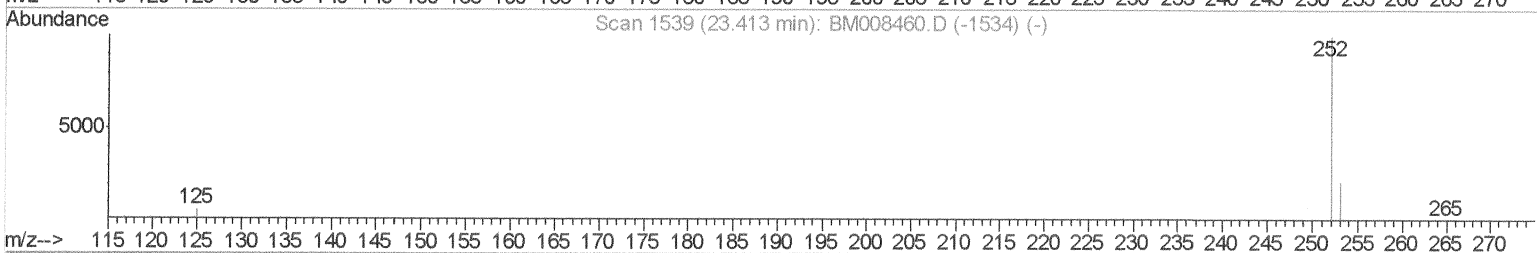
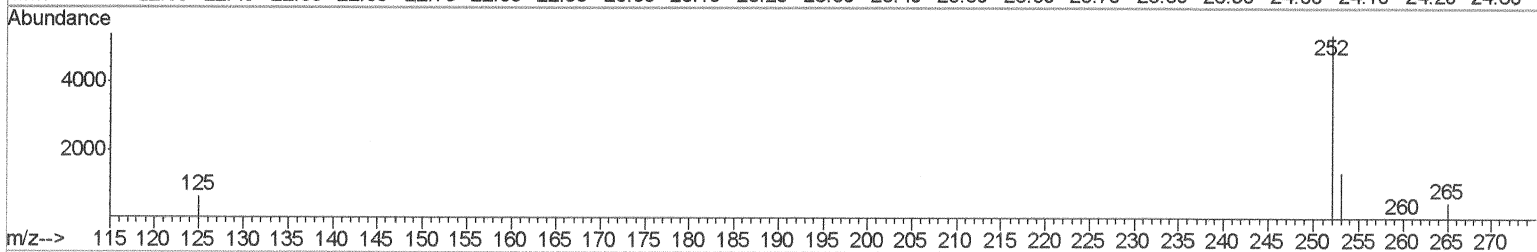
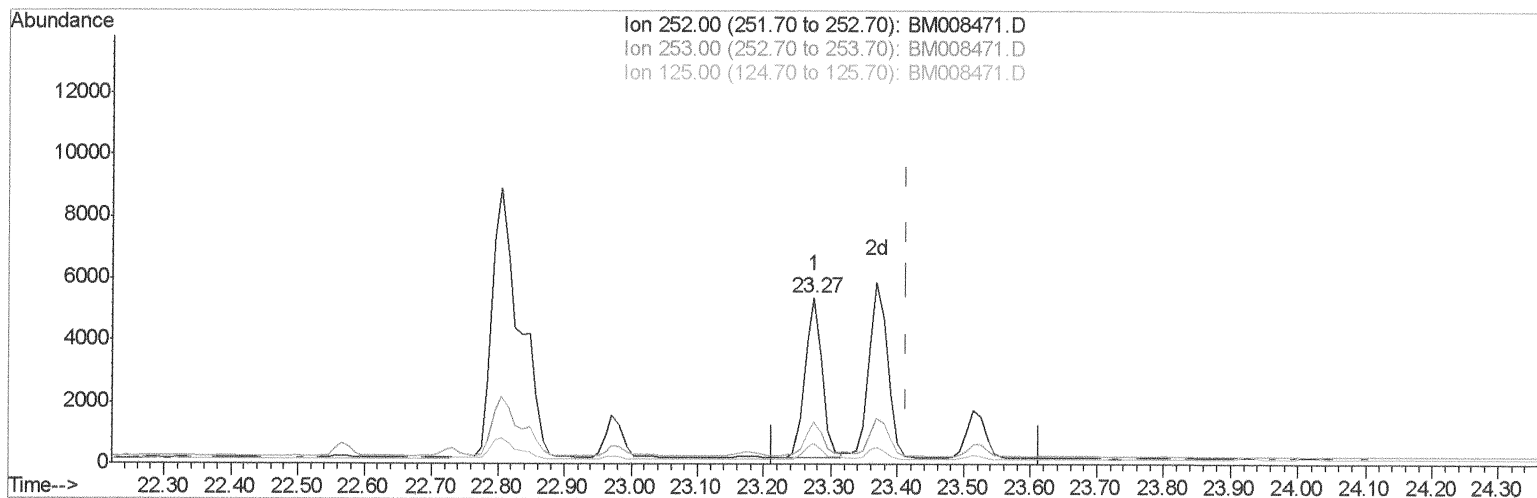
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
APPROVED

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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(23) Benzo(a)pyrene (C)
23.274min (-0.139) 1.87ng/ui
response 9345

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	25.87#
125.00	22.60	12.81#
0.00	0.00	0.00

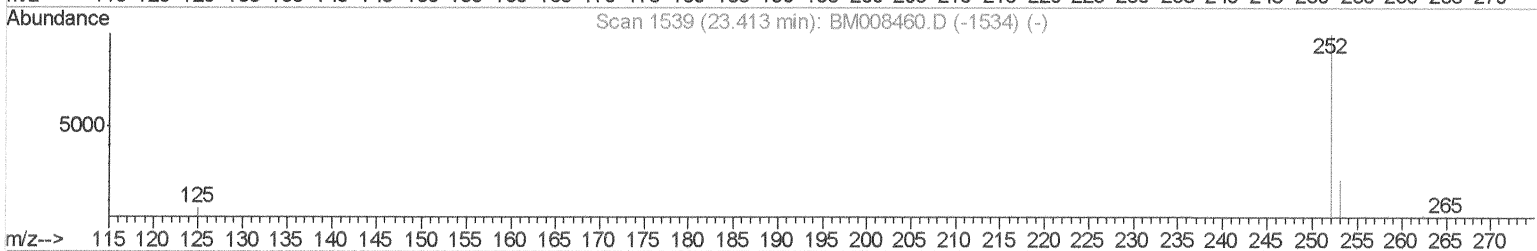
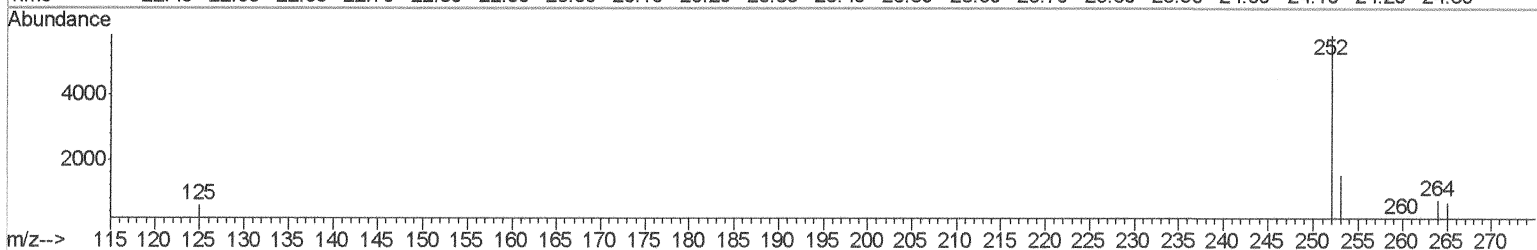
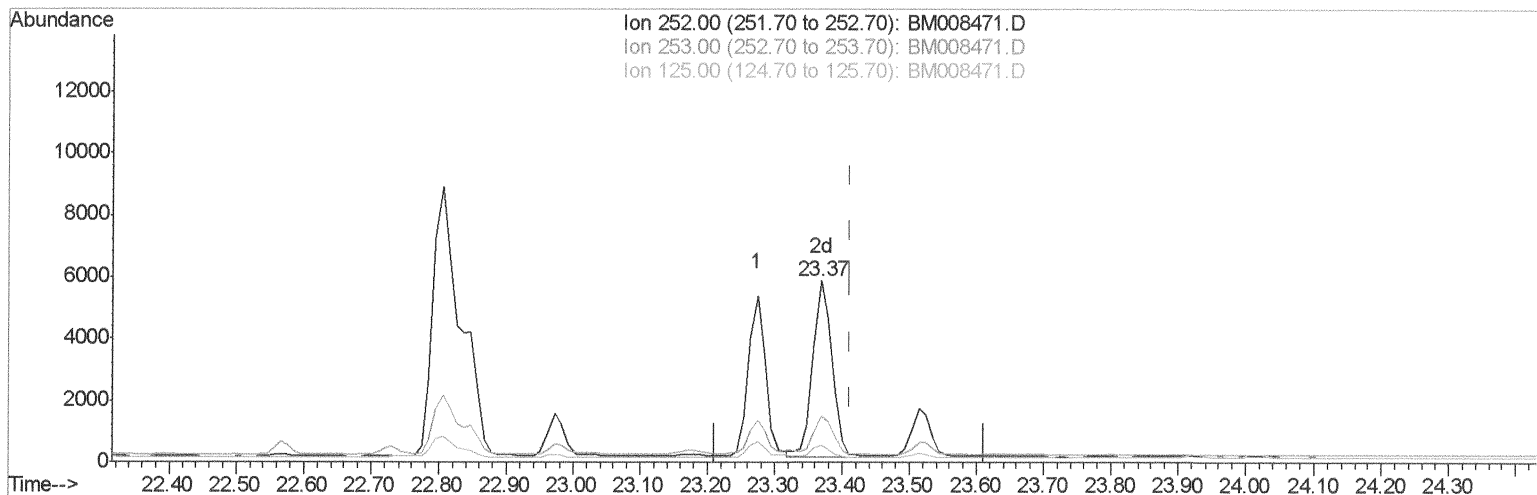
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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12/20/2016 6:31:39 PM

Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(23) Benzo(a)pyrene (C)

23.368min (-0.045) 2.30ng/ul m

SJ 12/21/16

response 11533

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	25.72#
125.00	22.60	9.98#
0.00	0.00	0.00

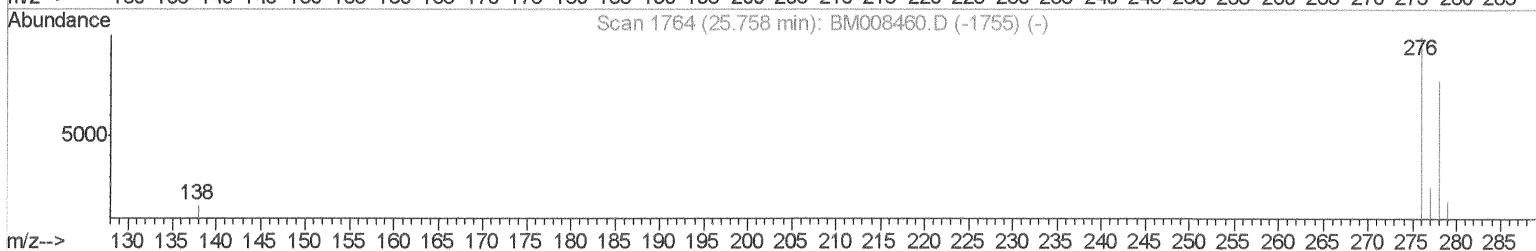
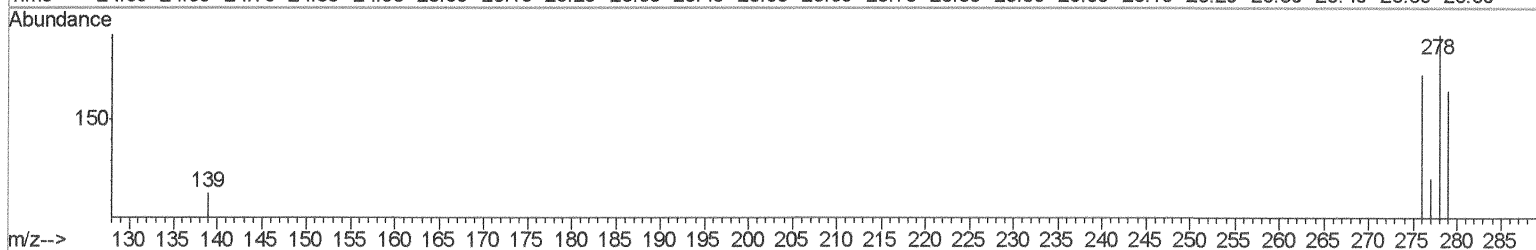
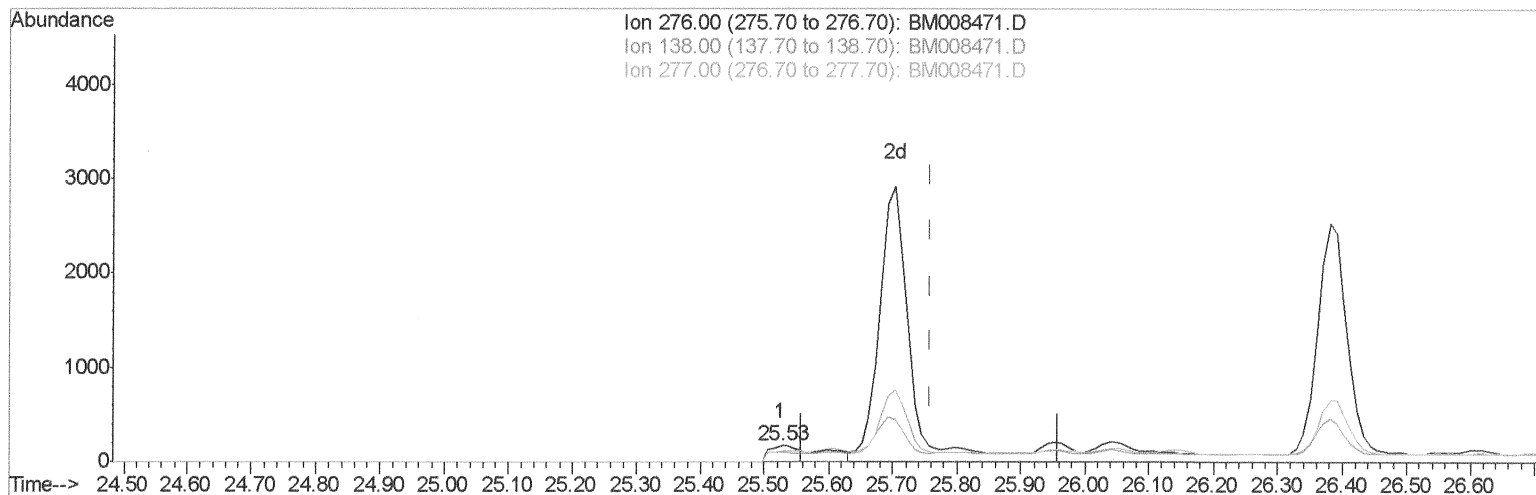
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
APPROVED

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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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TIC: BM008471.D

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

25.526min (-0.233) 0.18ng/ul

response 1079

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	0.00#
277.00	24.50	54.49#
0.00	0.00	0.00

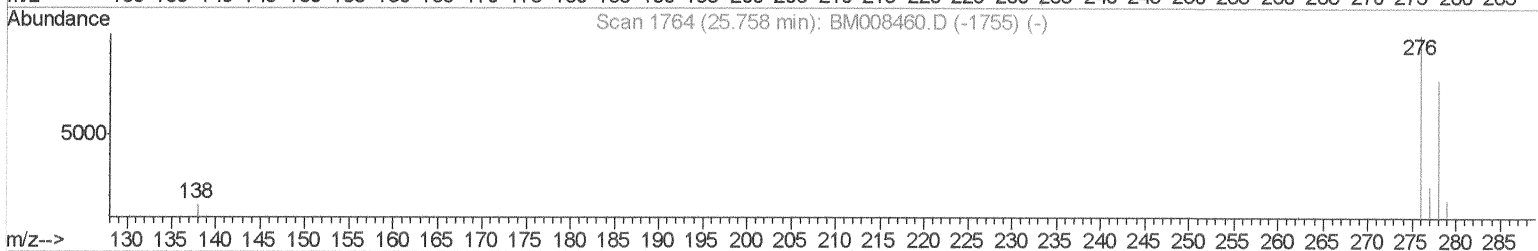
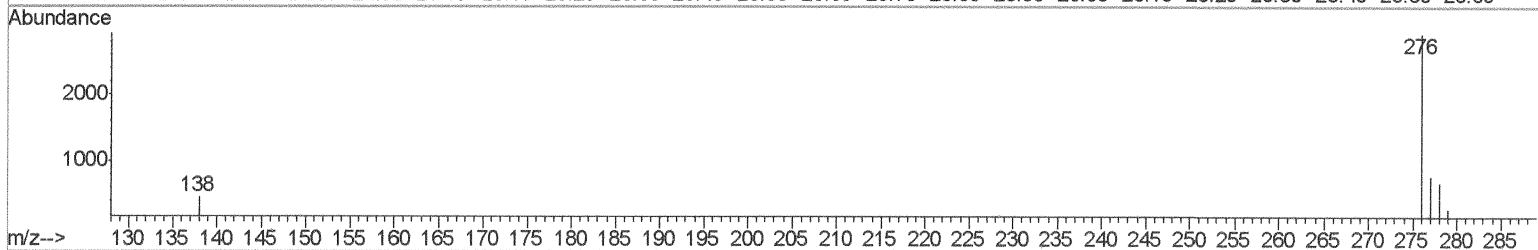
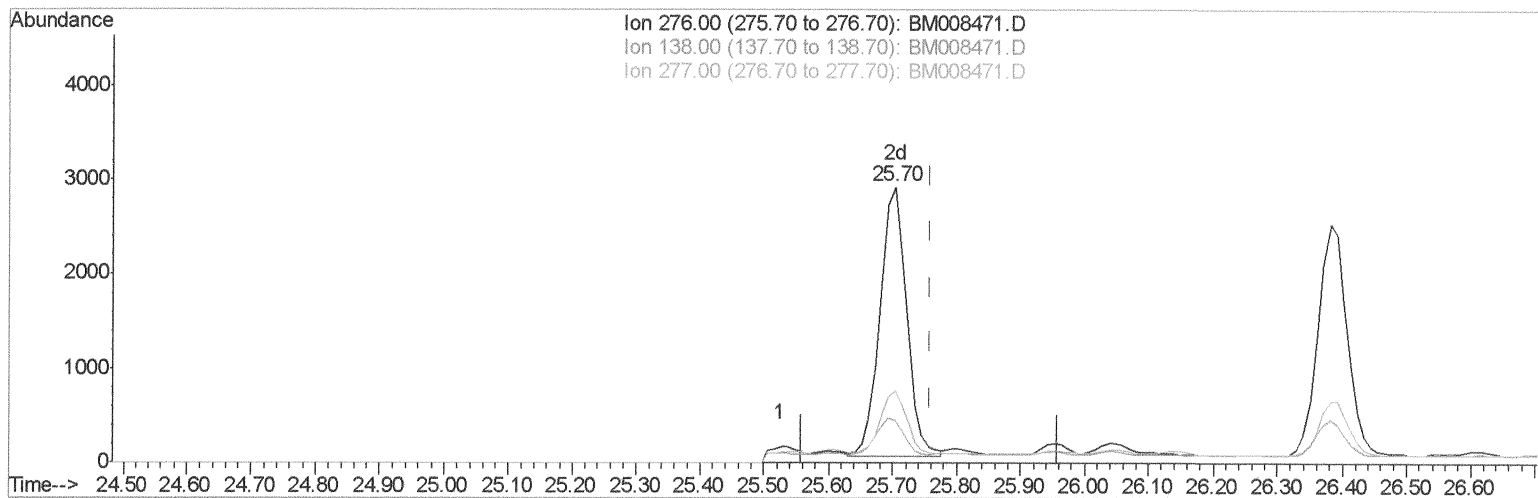
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DA855

Manual Integrations
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sohil
12/20/2016 6:31:39 PM

Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

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

25.703min (-0.055) 1.39ng/ul m

SJ 12/21/16

response 8320

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	0.00#
277.00	24.50	7.07#
0.00	0.00	0.00

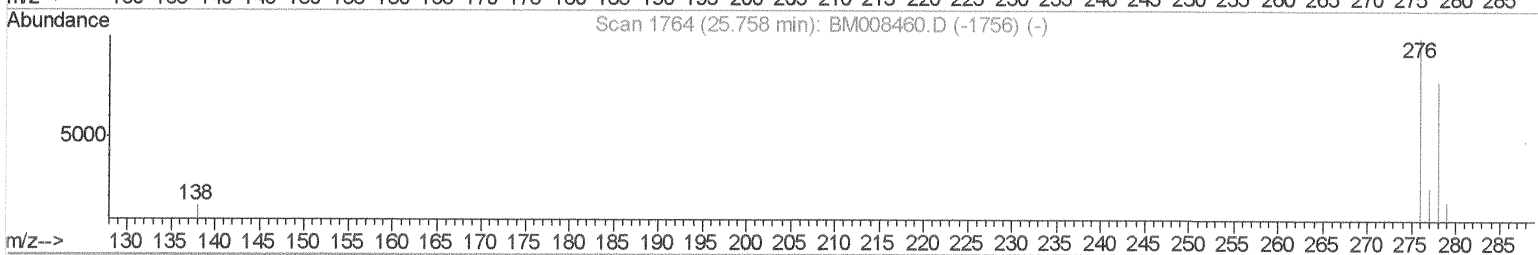
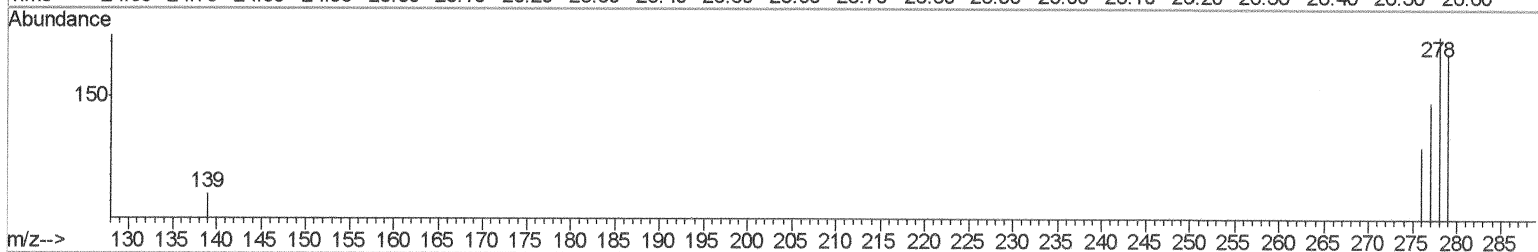
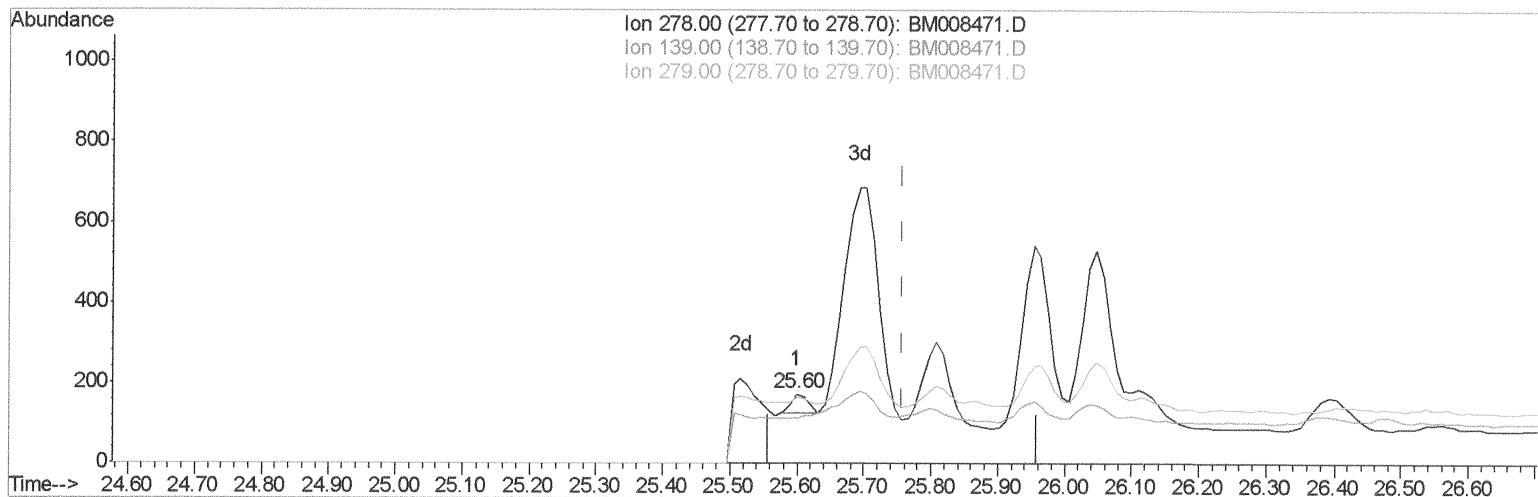
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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12/20/2016 6:31:39 PM

Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(25) Dibenzo(a,h)anthracene

25.599min (-0.160) 0.02ng/ul

response 86

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	65.32#
279.00	32.40	95.95#
0.00	0.00	0.00

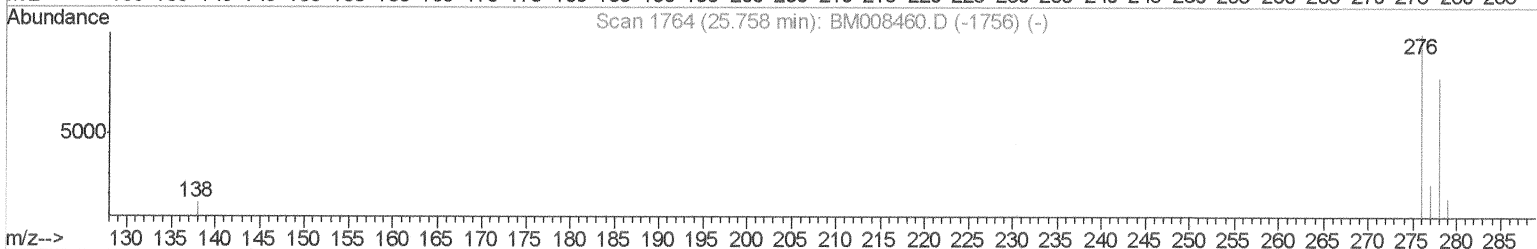
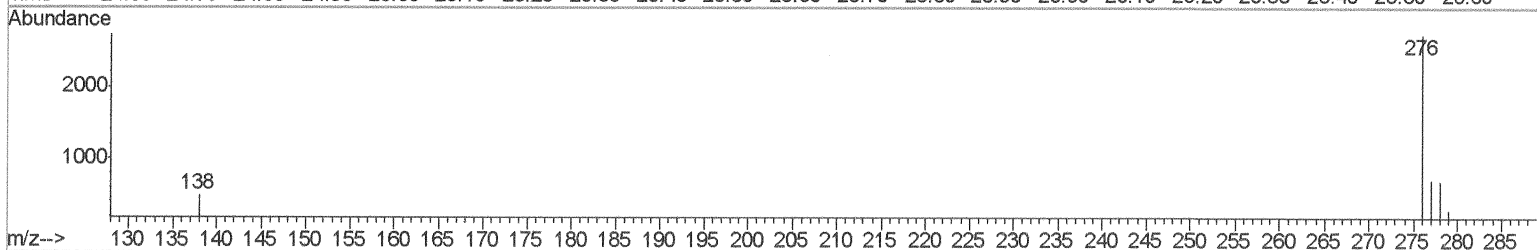
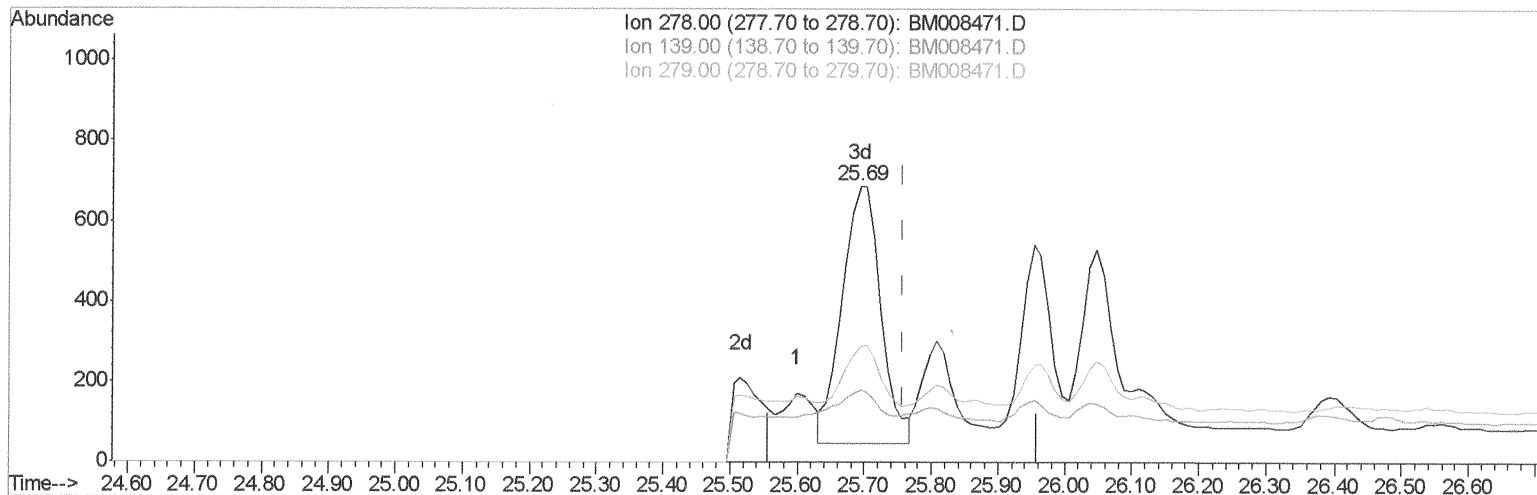
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DA855

Manual Integrations
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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

(25) Dibenzo(a,h)anthracene

25.693min (-0.066) 0.54ng/ul m SJ 12/21/16

response 2559

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	26.24#
279.00	32.40	42.42#
0.00	0.00	0.00

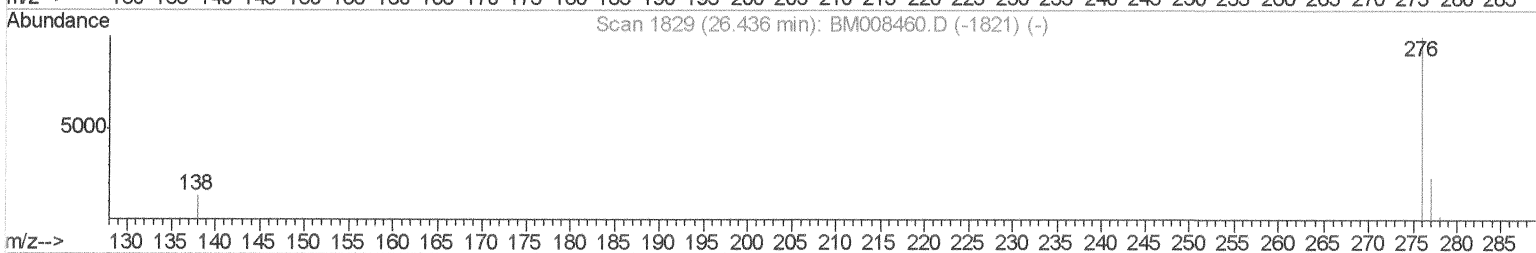
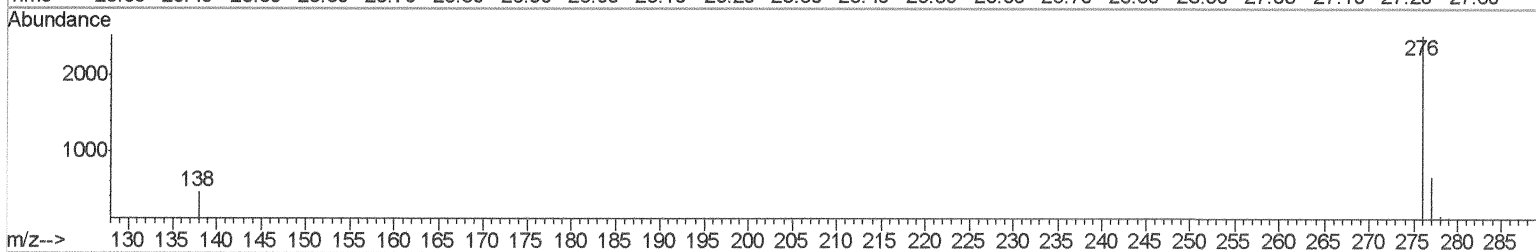
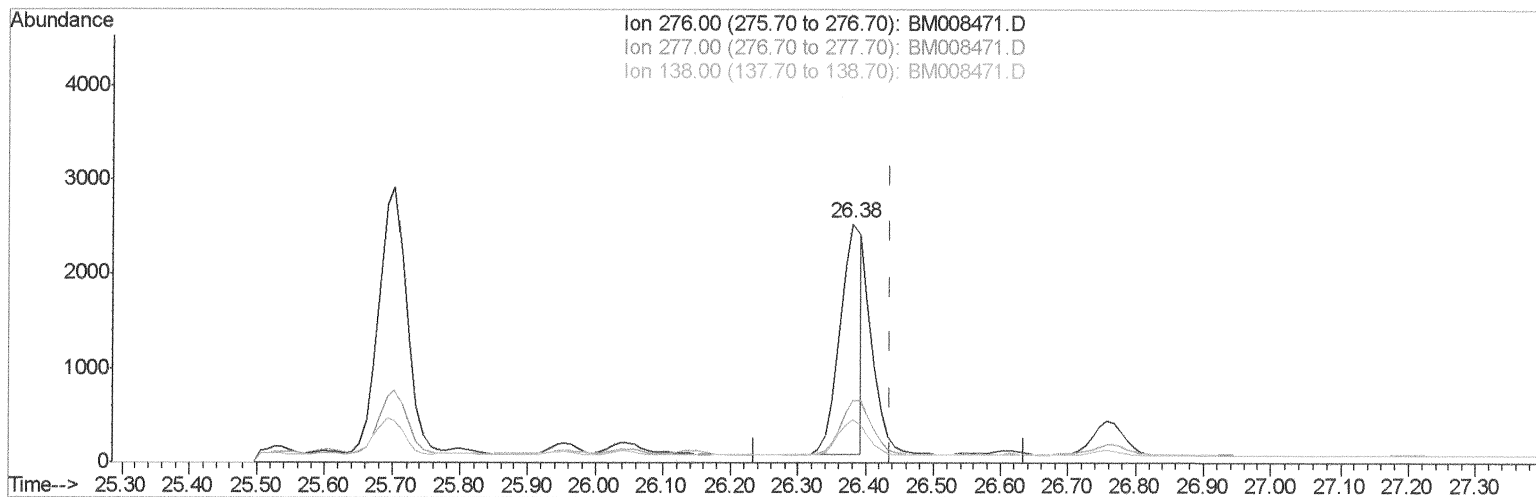
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA855

Manual Integrations
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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

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

26.381min (-0.055) 1.08ng/ui

response 5542

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	26.09
138.00	25.60	18.29#
0.00	0.00	0.00

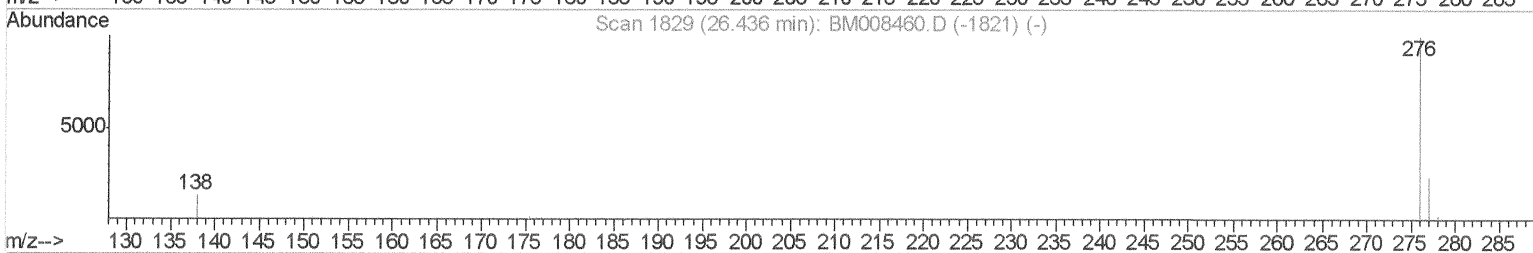
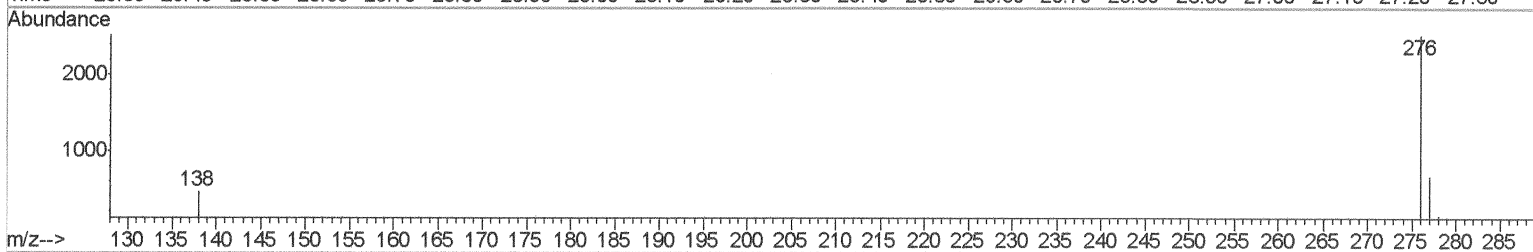
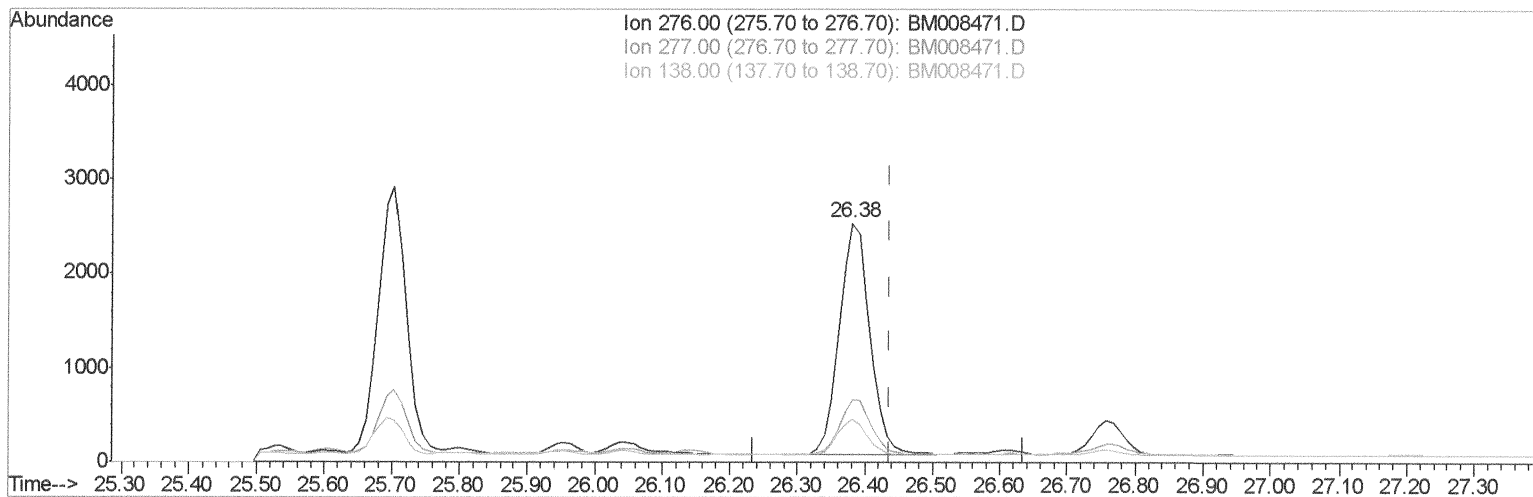
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008471.D
Acq On : 20 Dec 2016 09:33
Operator : UM/SJ
Sample : H5970-16
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleID :
DA855

Manual Integrations
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Quant Time: Dec 20 14:18:57 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008471.D

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

26.381min (-0.055) 1.54ng/ul m

SJ 12/21/16

response 7881

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	26.09
138.00	25.60	18.29#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
 Data File : BM008471.D
 Acq On : 20 Dec 2016 09:33
 Operator : UM/SJ
 Sample : H5970-16
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA855

Manual Integrations
 APPROVED

sohil
 12/20/2016 6:31:39 PM

Quant Time: Dec 20 14:21:22 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 20 04:48:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	441	0.40	ng/ul	-0.06
2) Naphthalene-d8	10.43	136	1591	0.40	ng/ul	-0.06
6) Acenaphthene-d10	14.30	164	999	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.04	188	1853m	0.40	ng/ul	-0.05
16) Chrysene-d12	21.25	240	1740	0.40	ng/ul	-0.02
20) Perylene-d12	23.47	264	1372m	0.40	ng/ul	-0.03

} SJ 12/21/16

System Monitoring Compounds

4) 2-Methylnaphthalene-d10	12.03	152	468	0.19	ng/ul	-0.07
14) Fluoranthene-d10	19.08	212	1391m	0.27	ng/ul	-0.03

} SJ 12/21/16

Target Compounds

					Qvalue
3) Naphthalene	10.48	128	1293	0.29 ng/ul#	91
5) 2-Methylnaphthalene	12.10	142	2147	0.71 ng/ul	99
7) Acenaphthylene	14.01	152	1240	0.27 ng/ul#	88
8) Acenaphthene	14.35	153	462	0.14 ng/ul	93
9) Fluorene	15.34	166	607	0.16 ng/ul#	62
12) Phenanthrene	17.07	178	7435	1.31 ng/ul	98
13) Anthracene	17.18	178	2447	0.45 ng/ul	97
15) Fluoranthene	19.11	202	20046	2.89 ng/ul	94
17) Pyrene	19.47	202	19370	2.88 ng/ul	96
18) Benzo(a)anthracene	21.23	228	12904	2.26 ng/ul	99
19) Chrysene	21.28	228	12227	1.95 ng/ul	97
21) Benzo(b)fluoranthene	22.81	252	18563m	3.43 ng/ul	
22) Benzo(k)fluoranthene	22.83	252	6802m	1.29 ng/ul	
23) Benzo(a)pyrene	23.37	252	11533m	2.30 ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.70	276	8320m	1.39 ng/ul	
25) Dibenzo(a,h)anthracene	25.69	278	2559m	0.54 ng/ul	
26) Benzo(g,h,i)perylene	26.38	276	7881m	1.54 ng/ul	

} SJ 12/21/16

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