

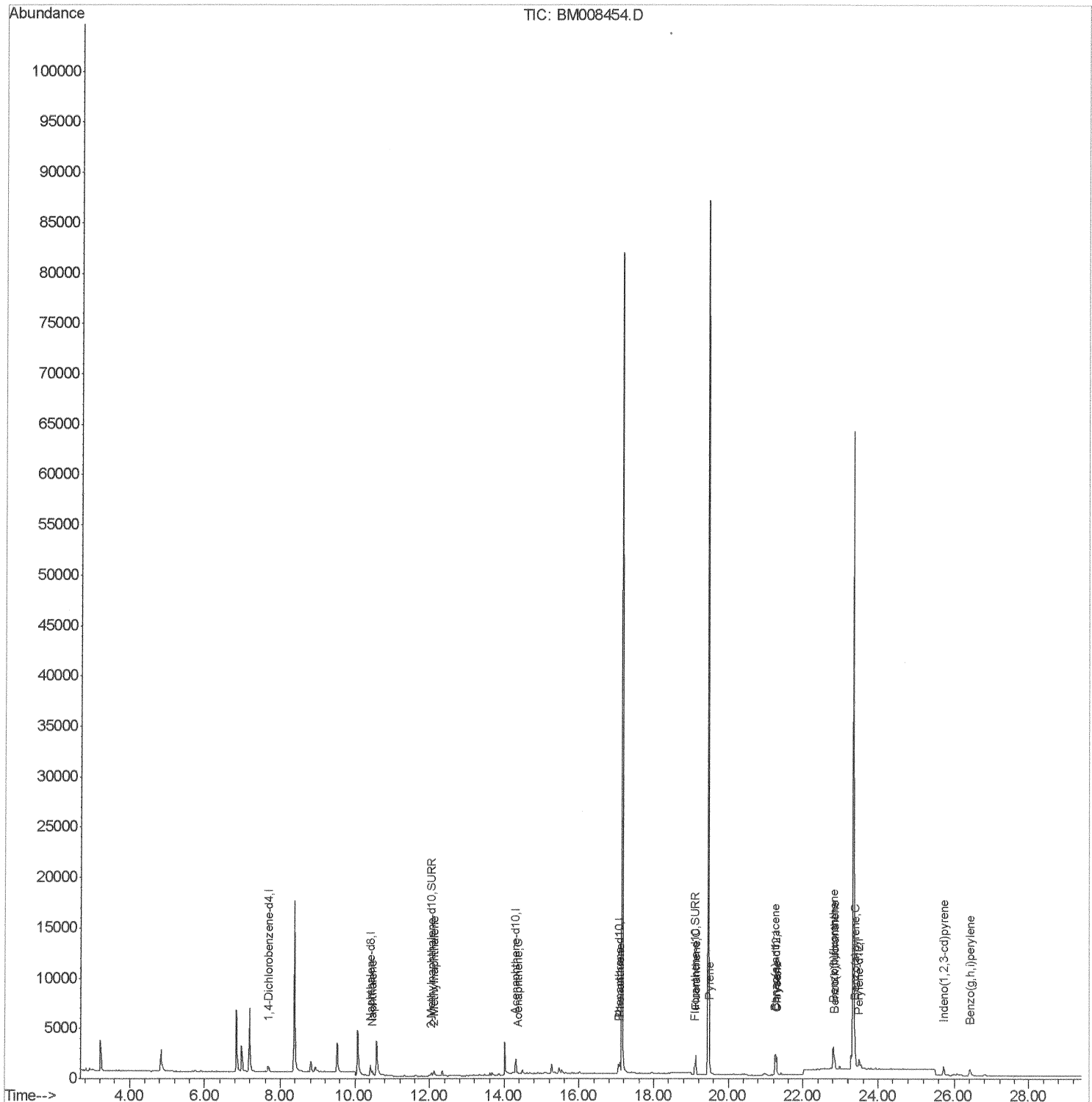
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:39:41 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



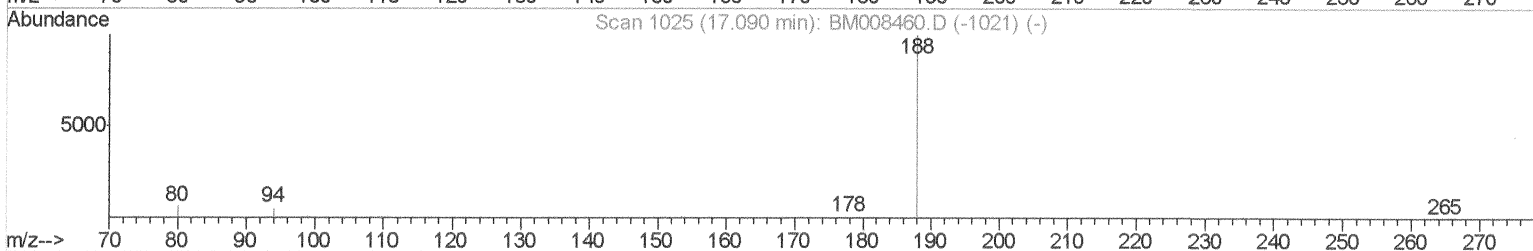
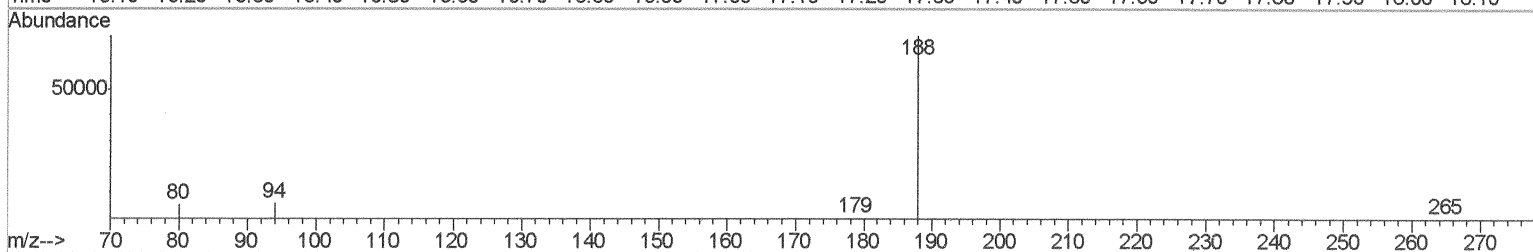
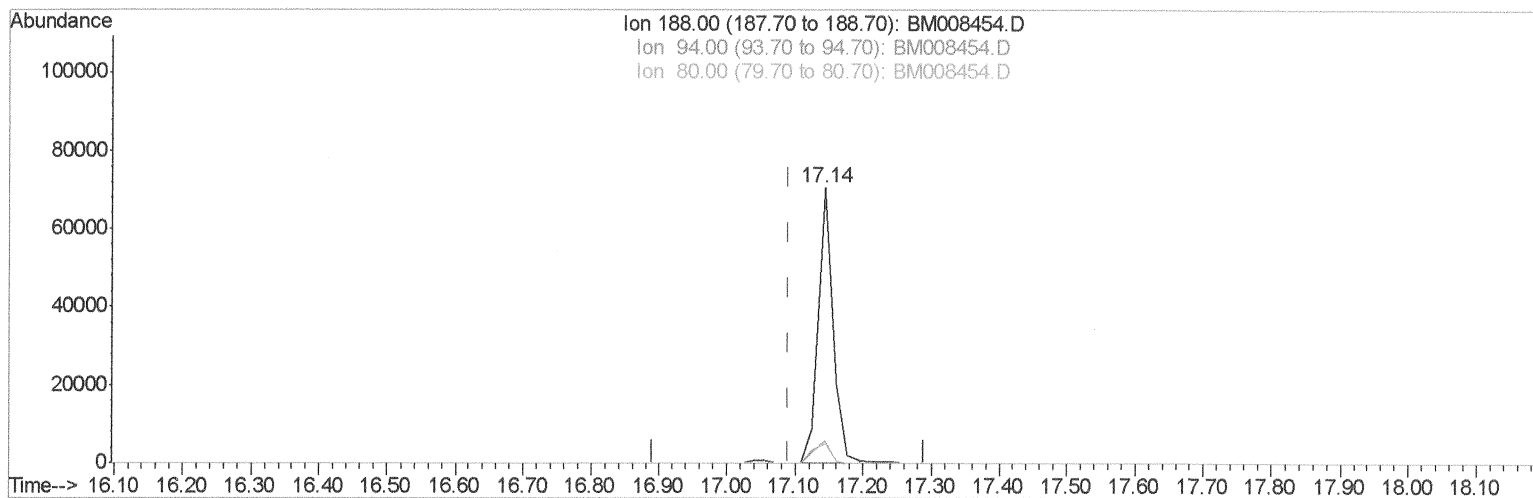
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
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Manual Integrations
APPROVED

sohil
12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:33:10 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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TIC: BM008454.D

(10) Phenanthrene-d10 (I)

17.142min (+0.052) 0.40ng/ul

response 104526

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	8.07#
80.00	11.80	7.49#
0.00	0.00	0.00

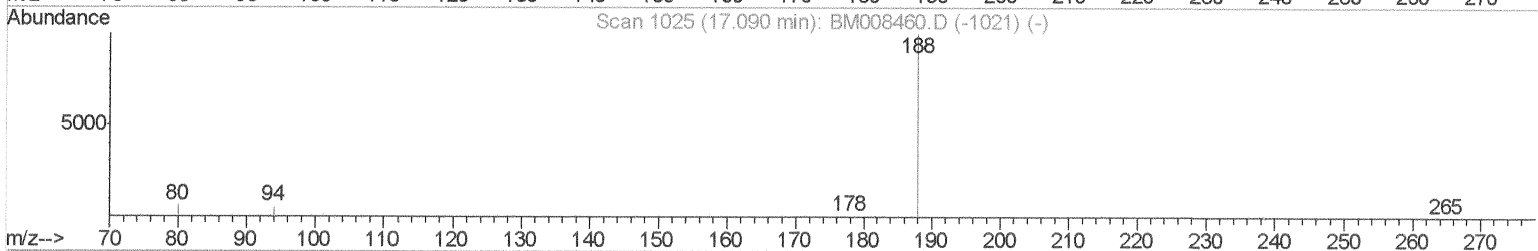
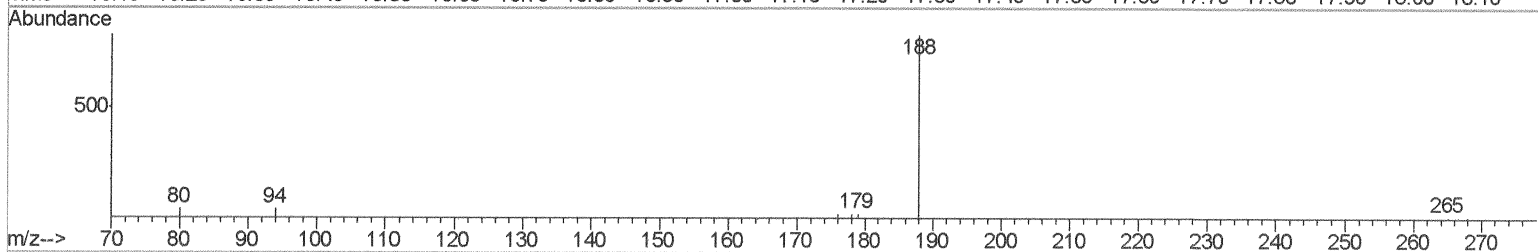
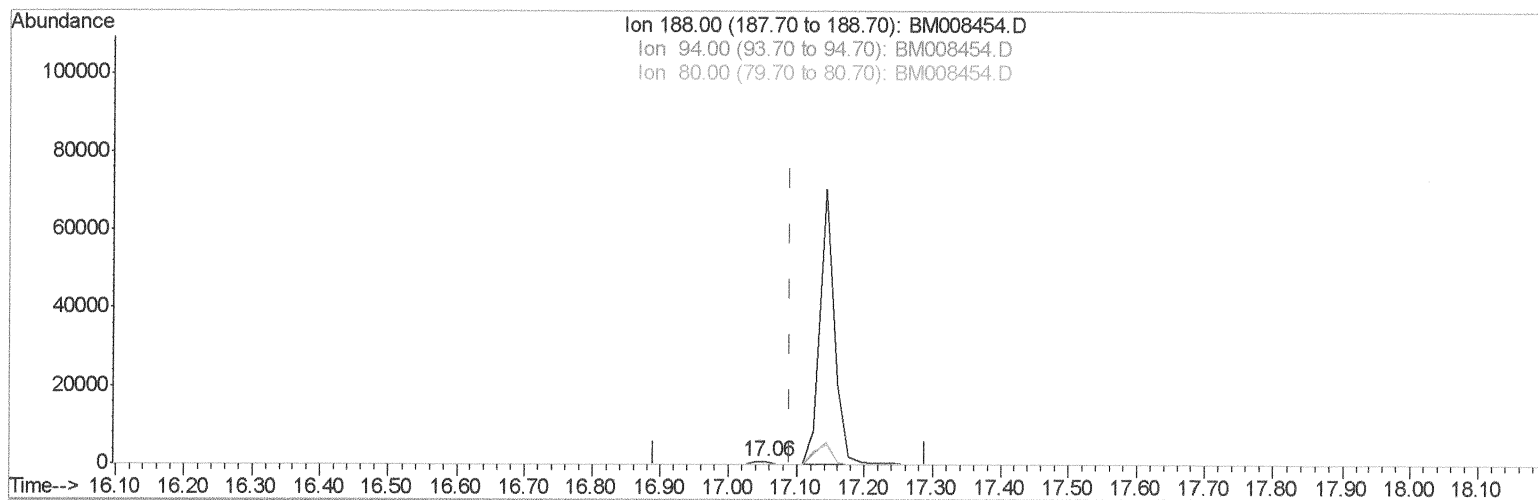
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
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Operator : UM/SJ
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ALS Vial : 16 Sample Multiplier: 1

Instrument :
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Manual Integrations
APPROVED

sohil
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Quant Time: Dec 20 12:33:10 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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TIC: BM008454.D

(10) Phenanthrene-d10 (I)

17.056min (-0.034) 0.40ng/ul m

SJ 12/21/16

response 1610

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	10.25
80.00	11.80	10.38
0.00	0.00	0.00

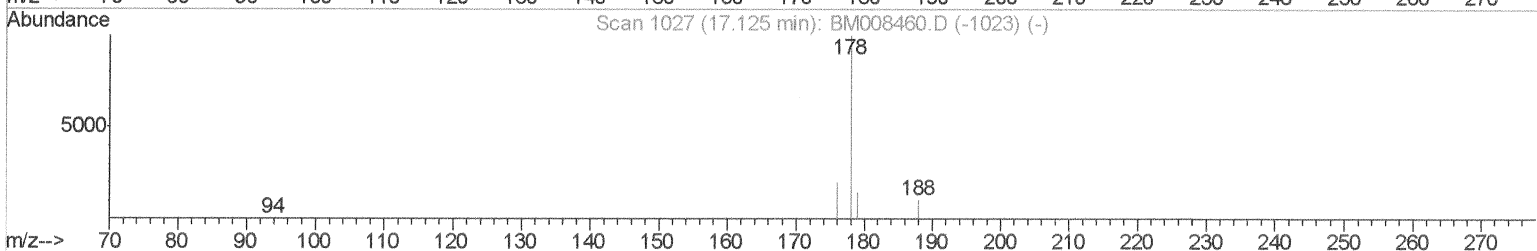
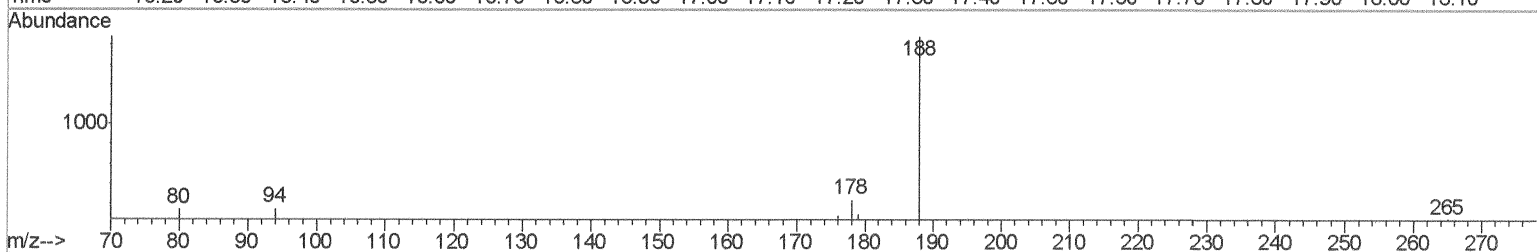
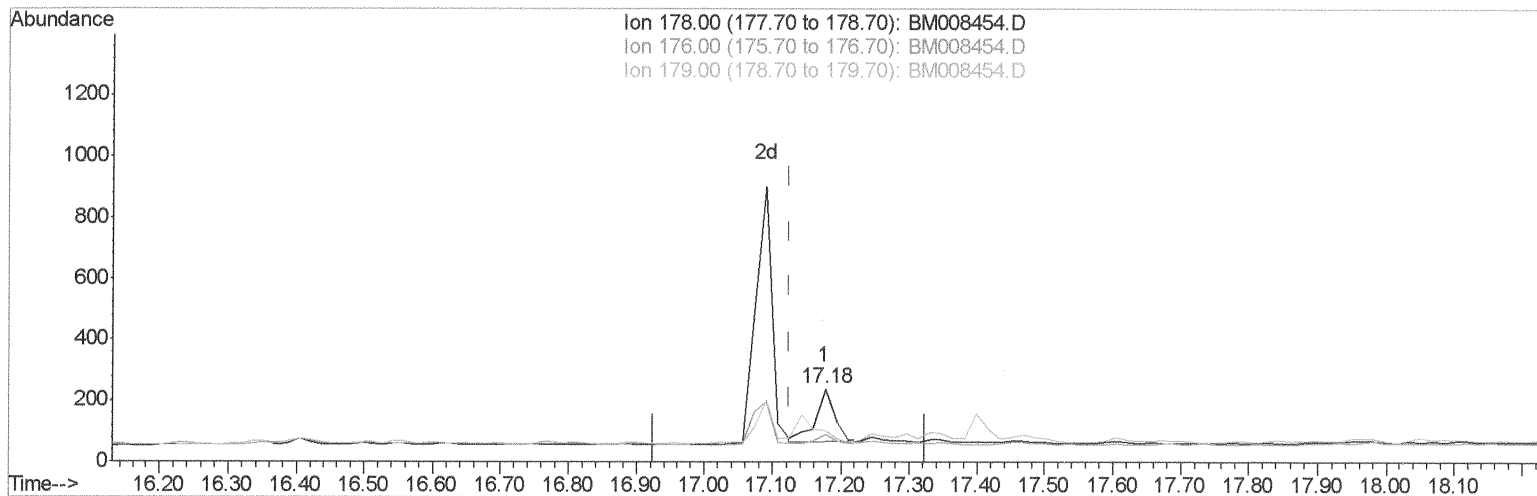
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
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Quant Time: Dec 20 12:33:59 2016
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TIC: BM008454.D

(12) Phenanthrene

17.176min (+0.052) 0.07ng/ul

response 329

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	38.08#
179.00	17.00	42.26#
0.00	0.00	0.00

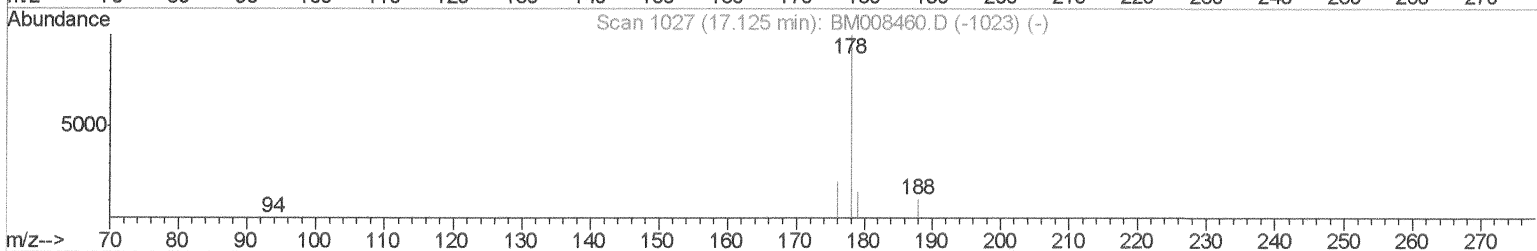
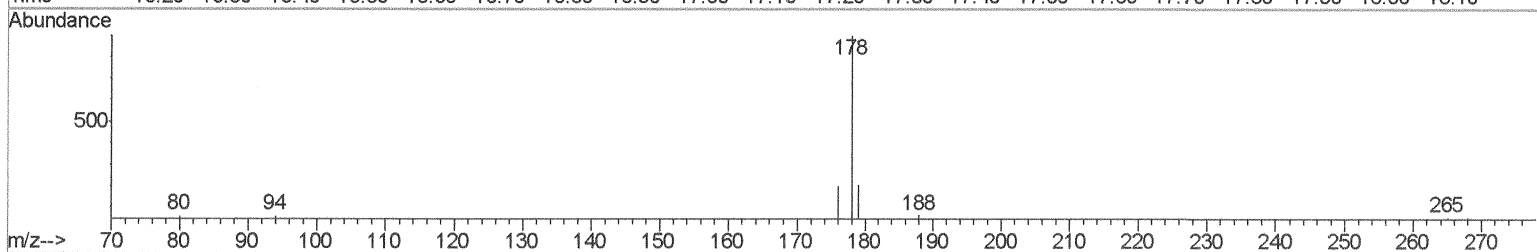
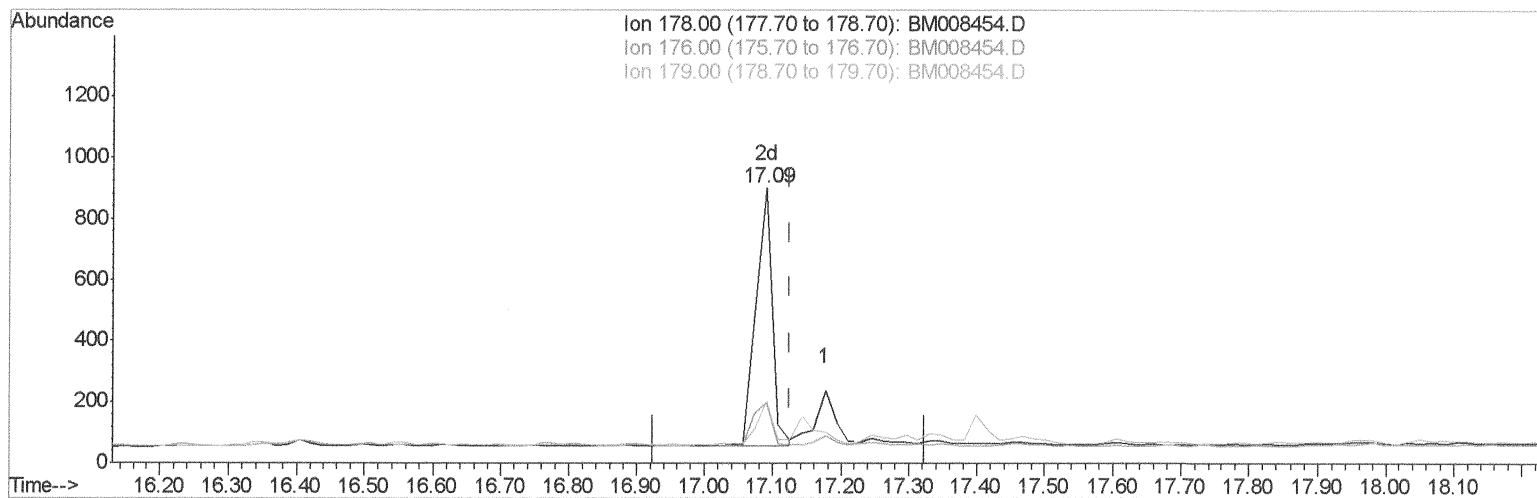
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
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Quant Time: Dec 20 12:33:59 2016
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TIC: BM008454.D

(12) Phenanthrene

17.090min (-0.034) 0.29ng/ul m

SJ 12/21/16

response 1416

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	22.09
179.00	17.00	22.75#
0.00	0.00	0.00

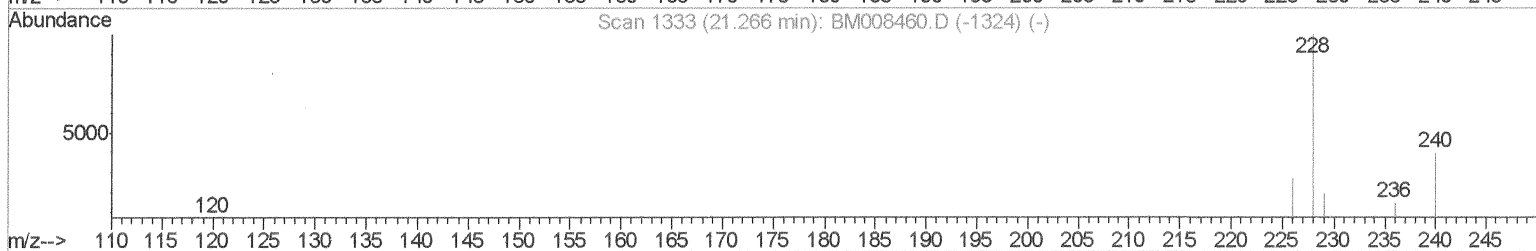
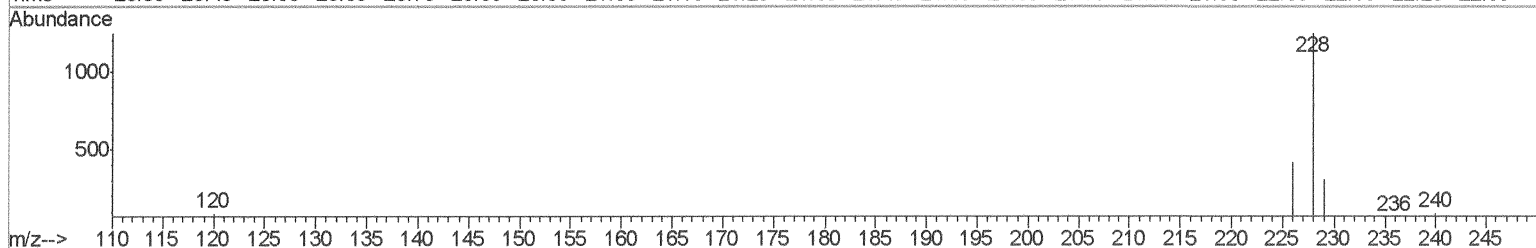
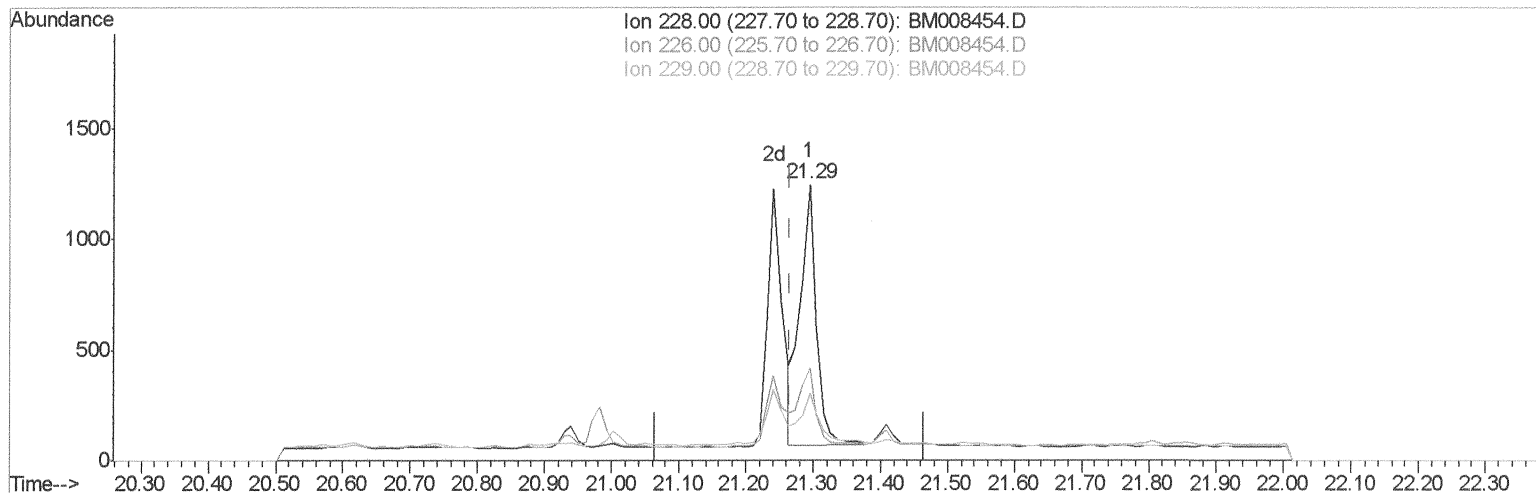
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
APPROVED

sohil
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Quant Time: Dec 20 12:33:59 2016
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TIC: BM008454.D

(18) Benzo(a)anthracene

21.294min (+0.028) 0.39ng/ul

response 1971

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	33.55
229.00	21.30	24.56
0.00	0.00	0.00

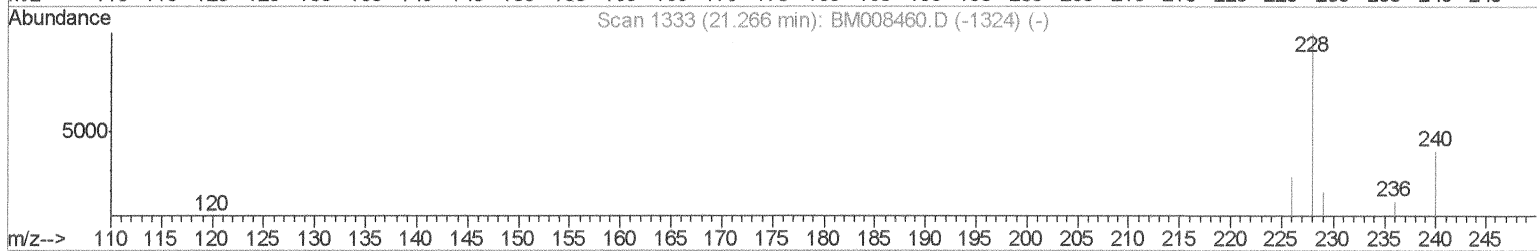
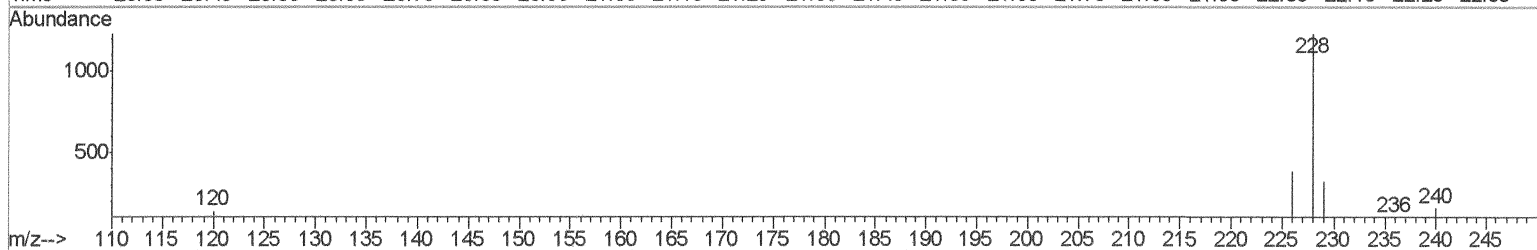
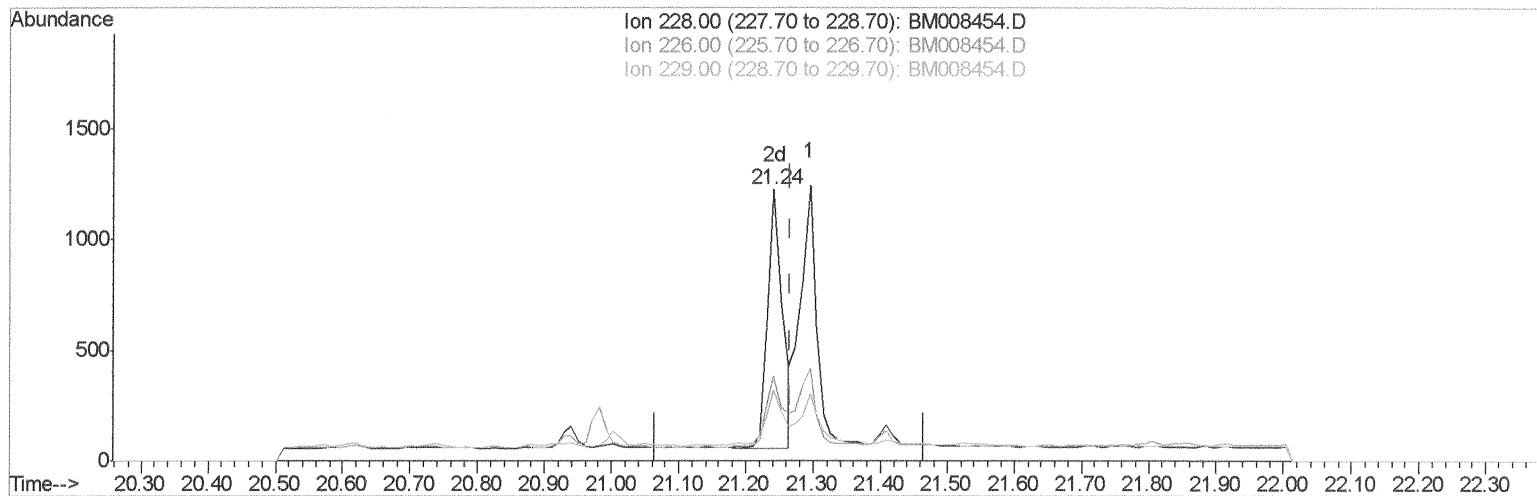
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual Integrations
APPROVED

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Quant Time: Dec 20 12:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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TIC: BM008454.D

(18) Benzo(a)anthracene

21.242min (-0.024) 0.35ng/ul m SJ 12/21/16

response 1798

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	31.62
229.00	21.30	26.41#
0.00	0.00	0.00

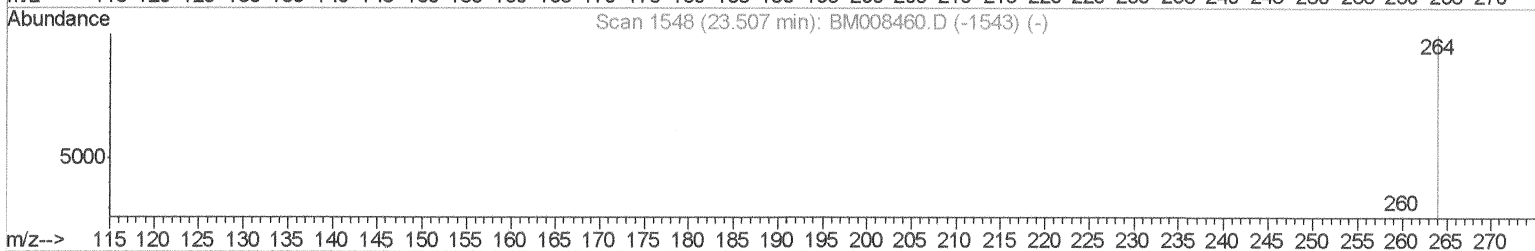
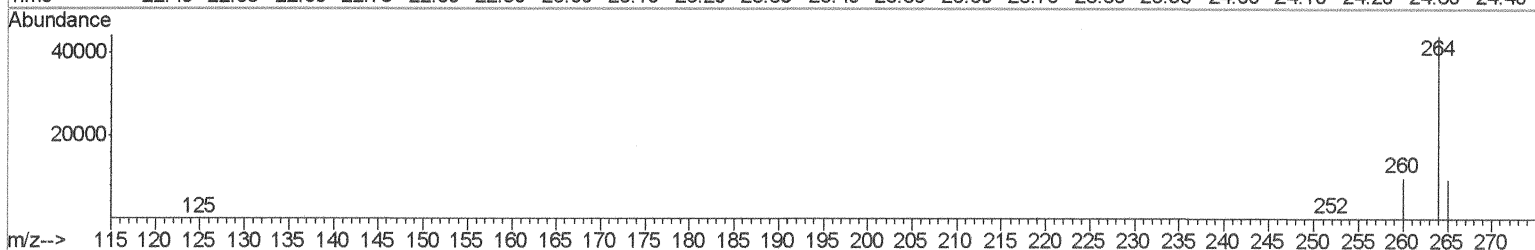
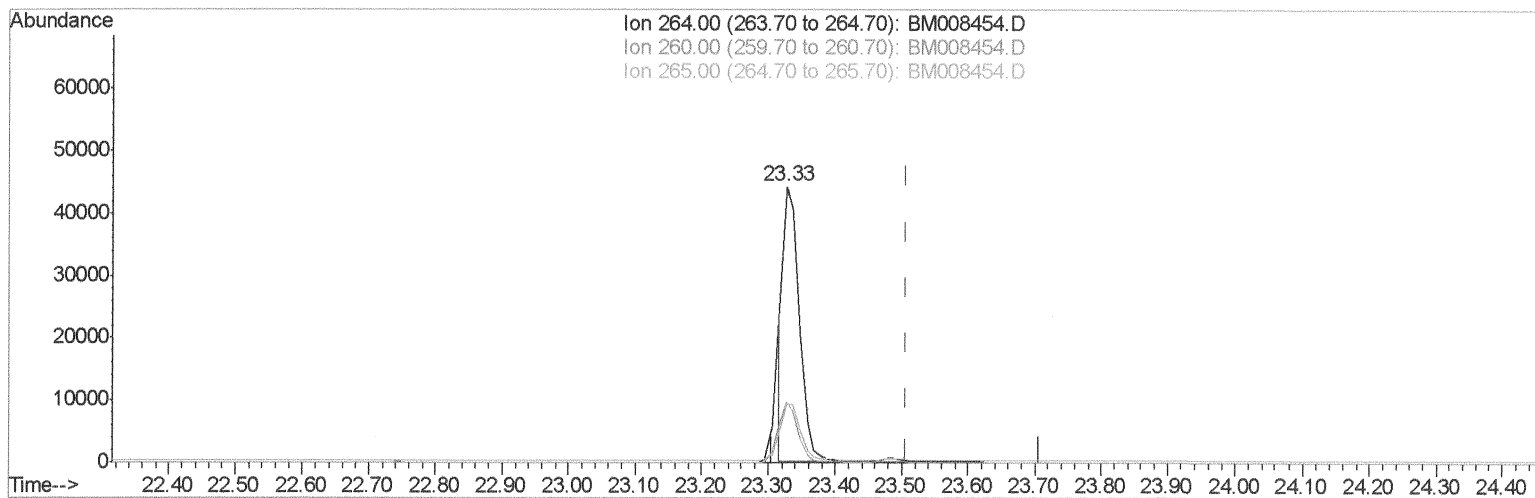
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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TIC: BM008454.D

(20) Perylene-d12 (I)

23.326min (-0.181) 0.40ng/ul

response 71288

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	22.49#
265.00	103.50	21.33#
0.00	0.00	0.00

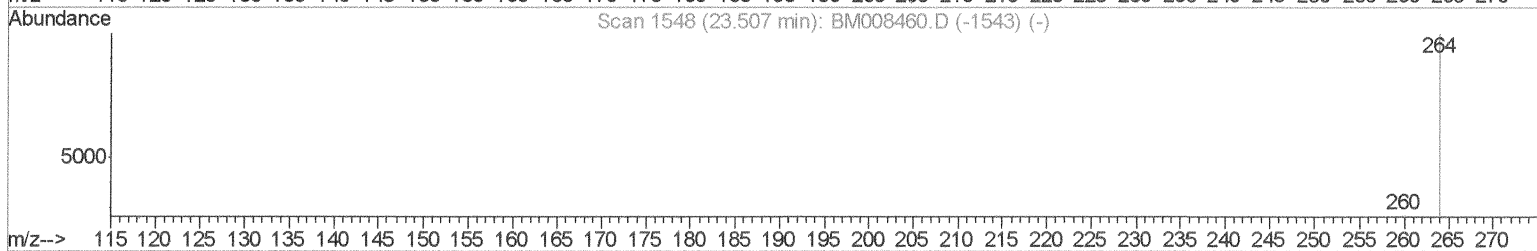
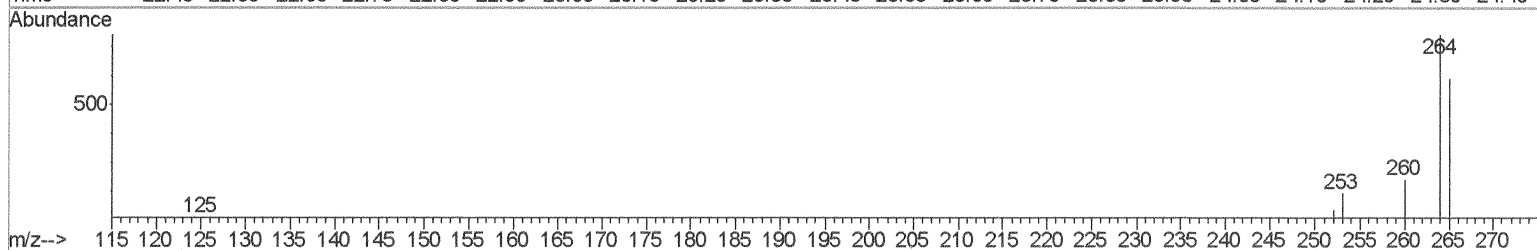
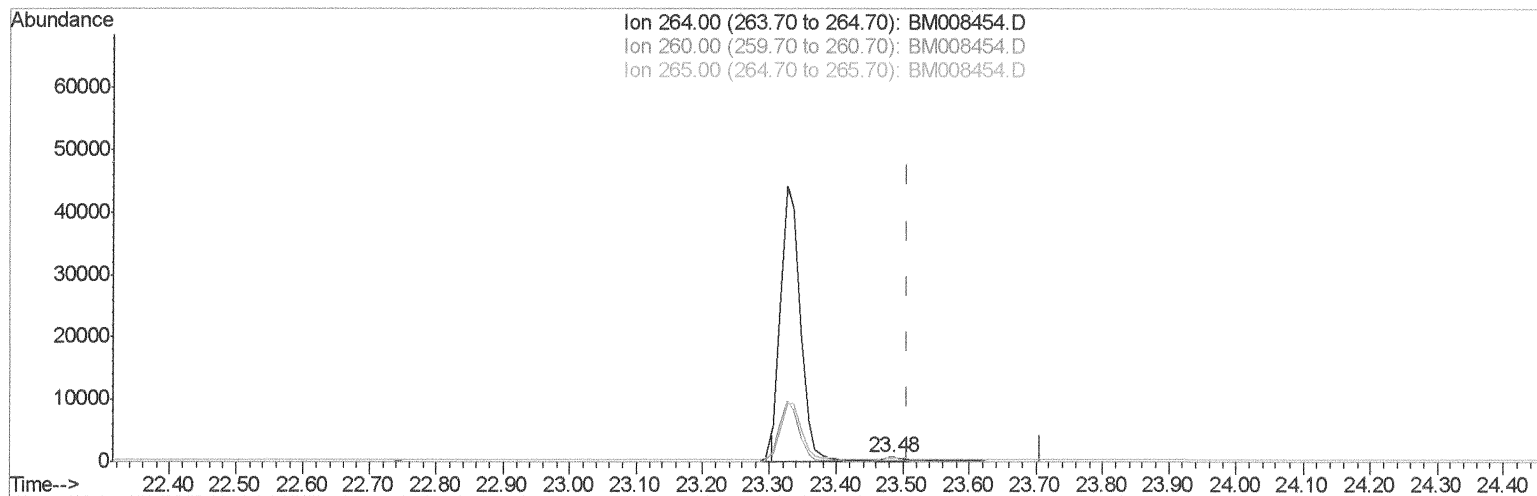
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Response via : Initial Calibration



TIC: BM008454.D

(20) Perylene-d12 (I)

23.483min (-0.024) 0.40ng/ul m

SJ 12/21/16

response 1102

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	31.81
265.00	103.50	79.46#
0.00	0.00	0.00

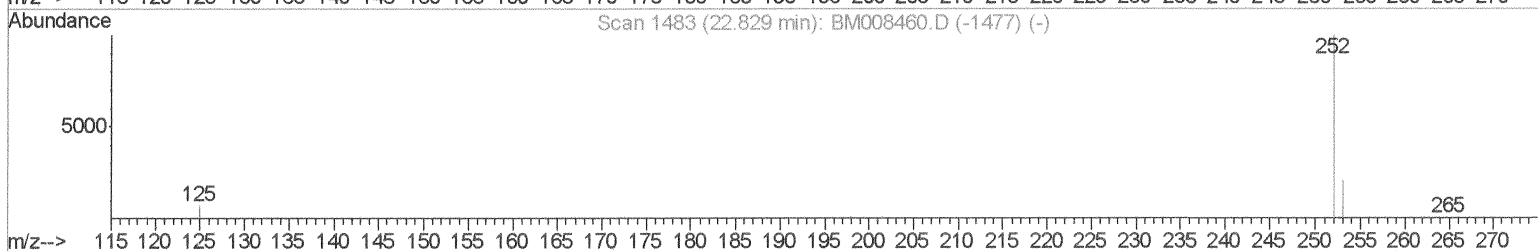
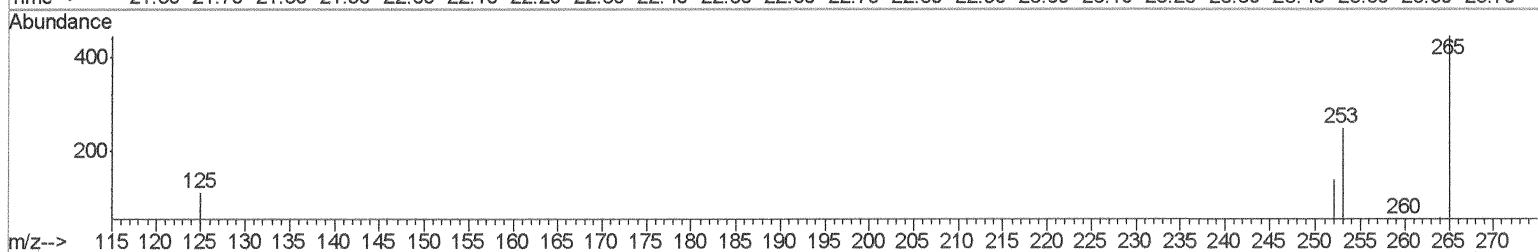
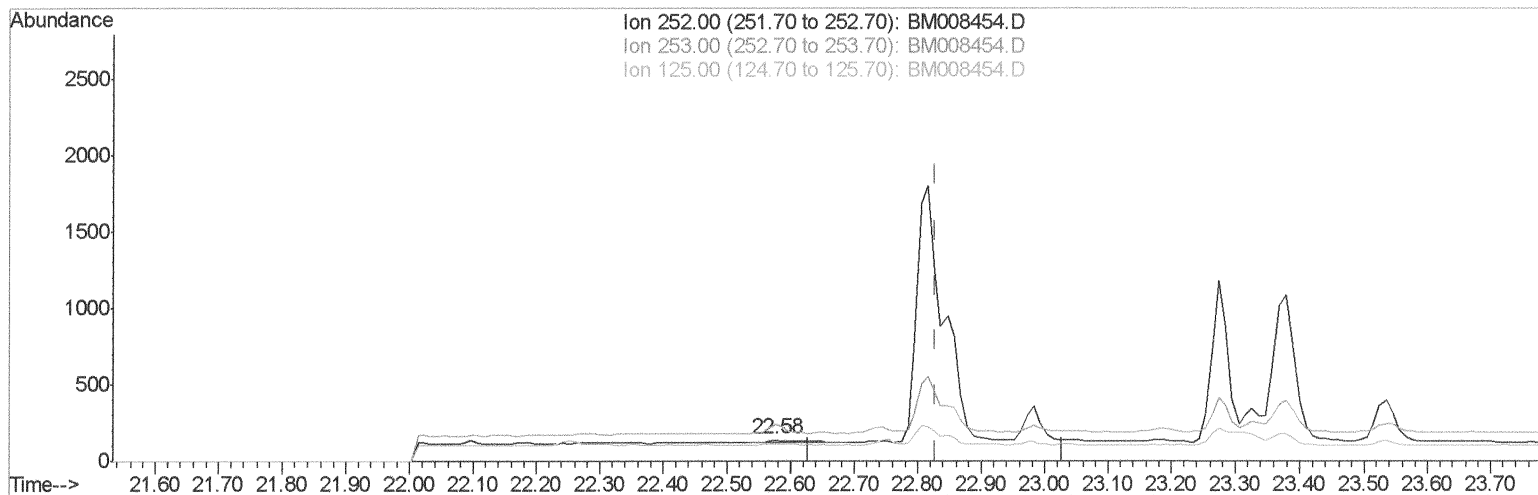
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:35:36 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Response via : Initial Calibration



TIC: BM008454.D

(21) Benzo(b)fluoranthene
22.576min (-0.253) 0.01ng/ul
response 61

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	177.14#
125.00	17.50	80.00#
0.00	0.00	0.00

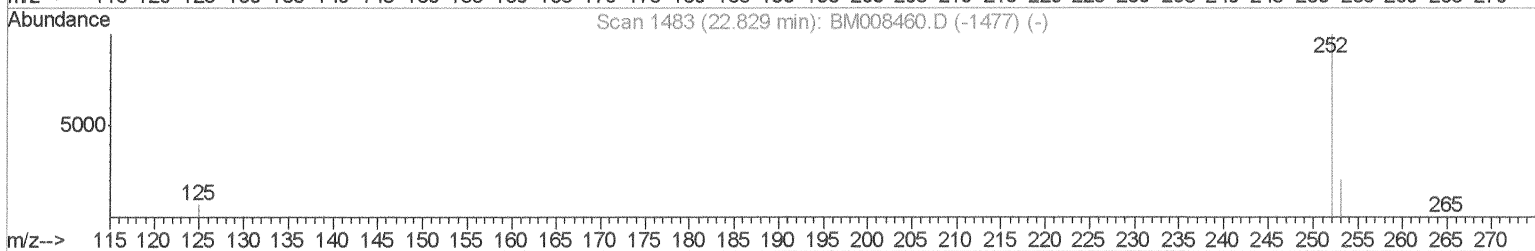
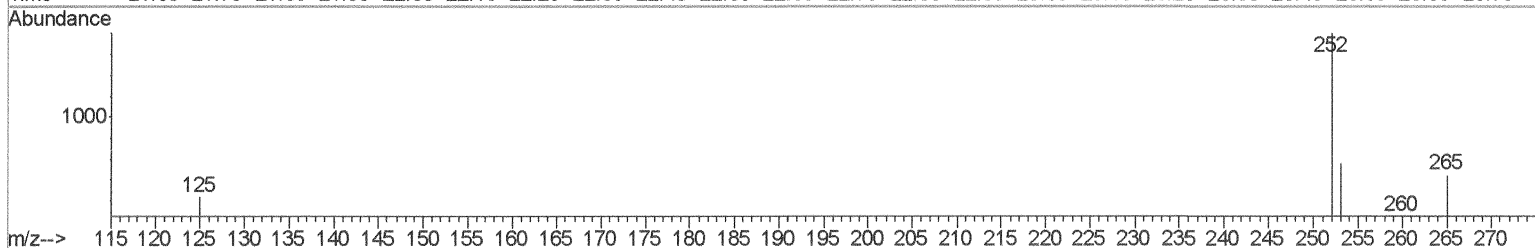
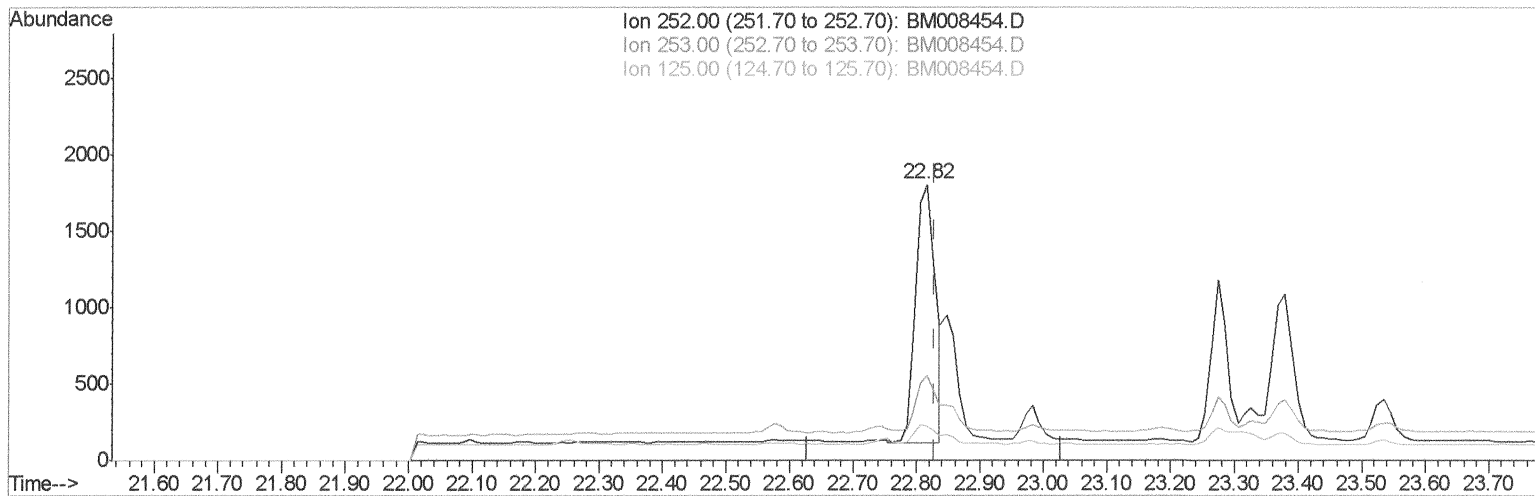
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DA844

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:35:36 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Response via : Initial Calibration



TIC: BM008454.D

(21) Benzo(b)fluoranthene

22.815min (-0.014) 0.86ng/ul m

SJ 12/21/16

response 3748

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	30.93
125.00	17.50	12.92
0.00	0.00	0.00

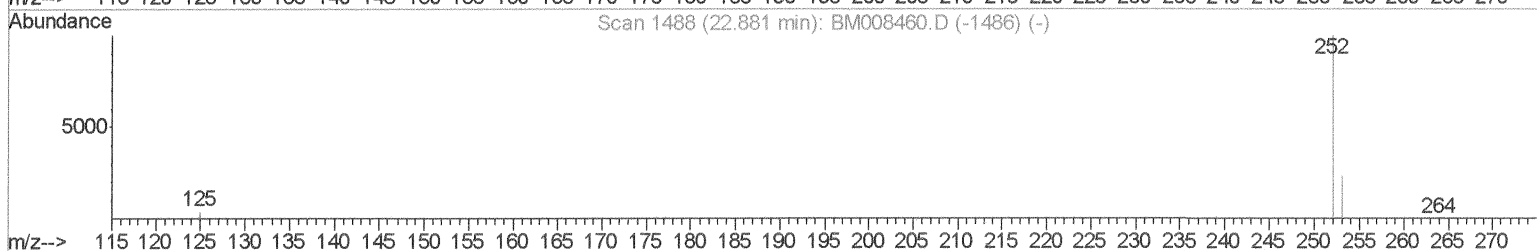
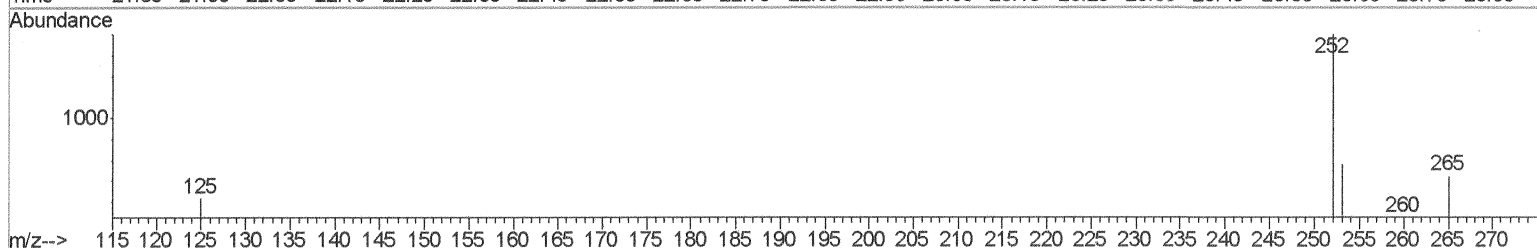
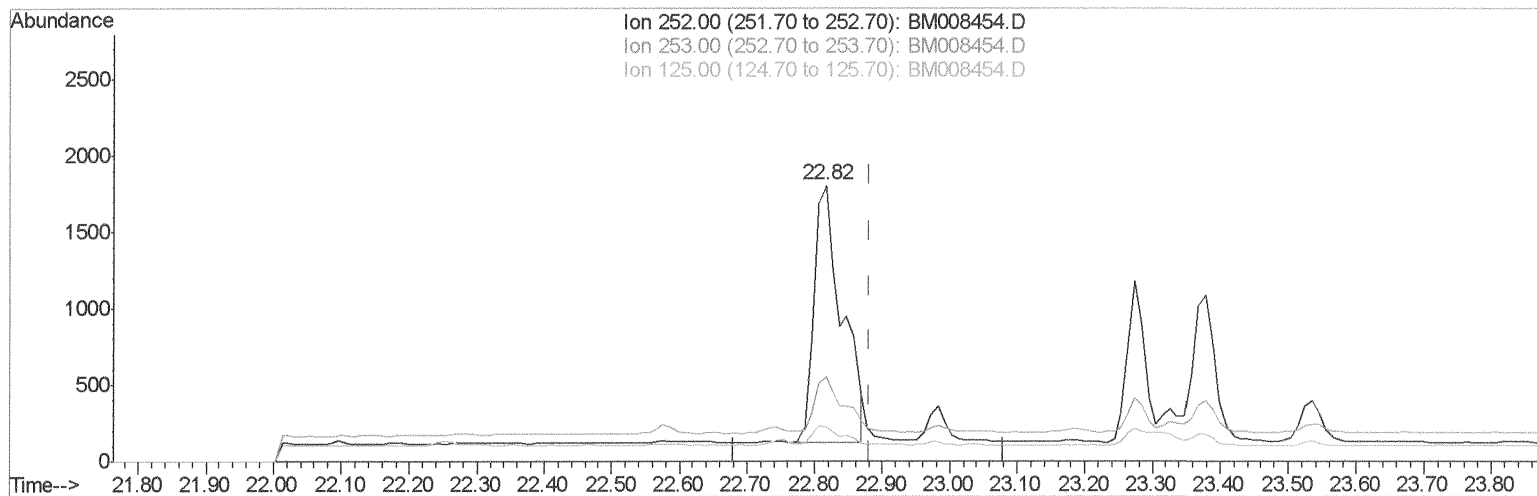
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:35:36 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Response via : Initial Calibration



TIC: BM008454.D

(22) Benzo(k)fluoranthene
22.815min (-0.066) 1.14ng/ul
response 4835

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	30.93
125.00	17.10	12.92#
0.00	0.00	0.00

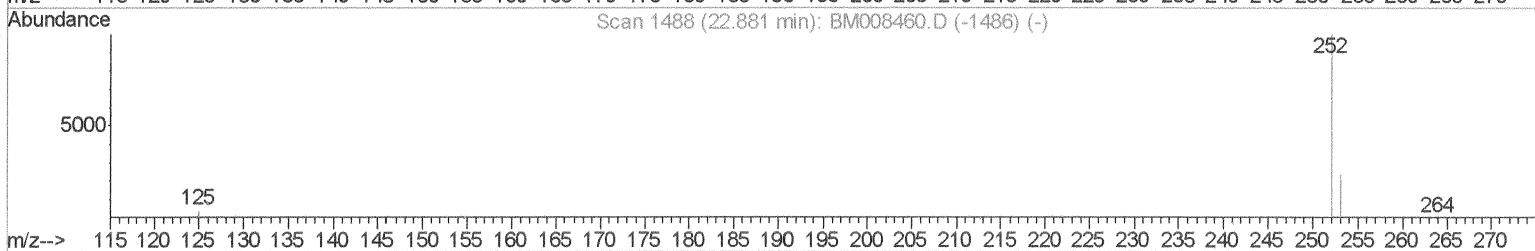
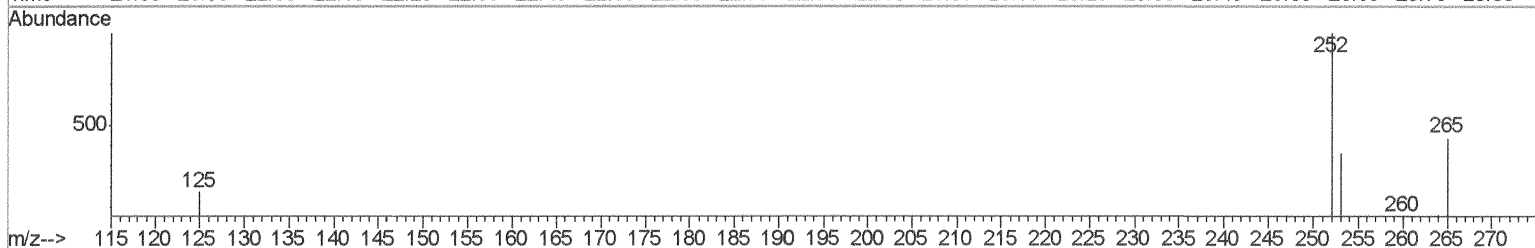
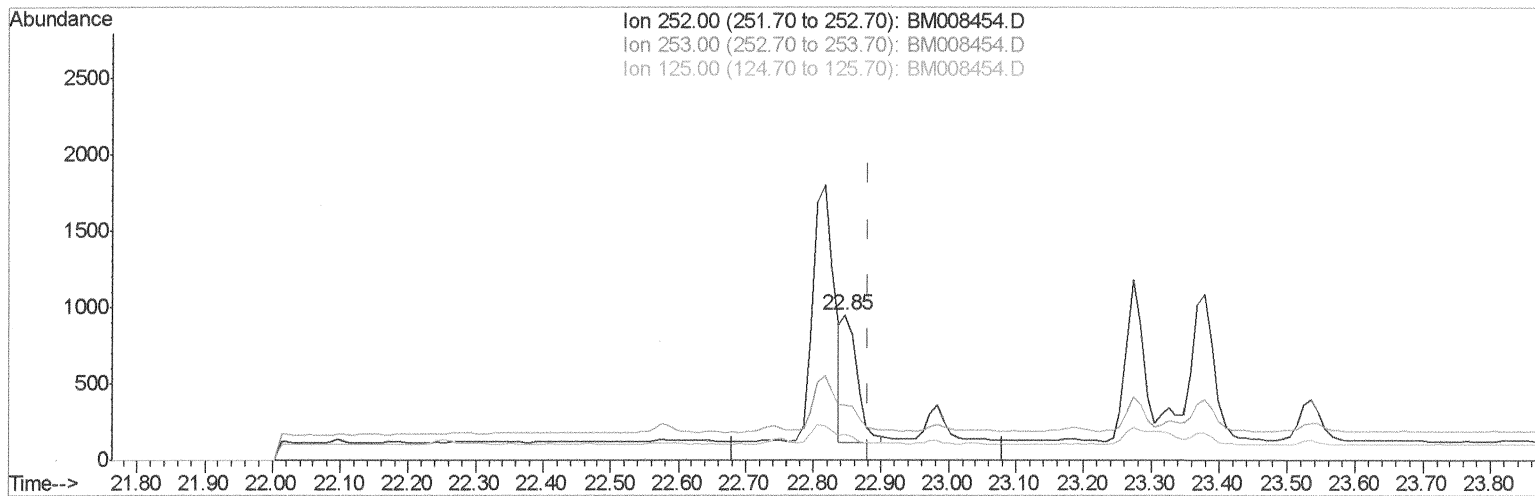
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Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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TIC: BM008454.D

(22) Benzo(k)fluoranthene

22.847min (-0.035) 0.30ng/ul m

SJ 12/21/16

response 1270

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	38.04#
125.00	17.10	18.02
0.00	0.00	0.00

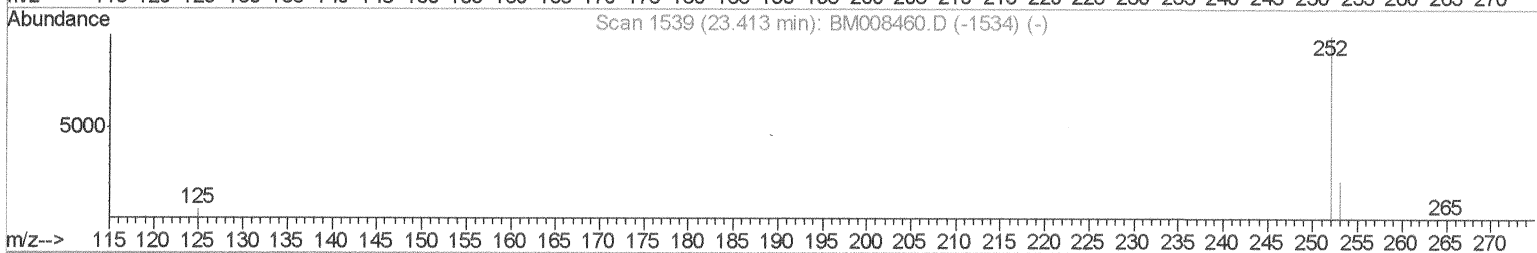
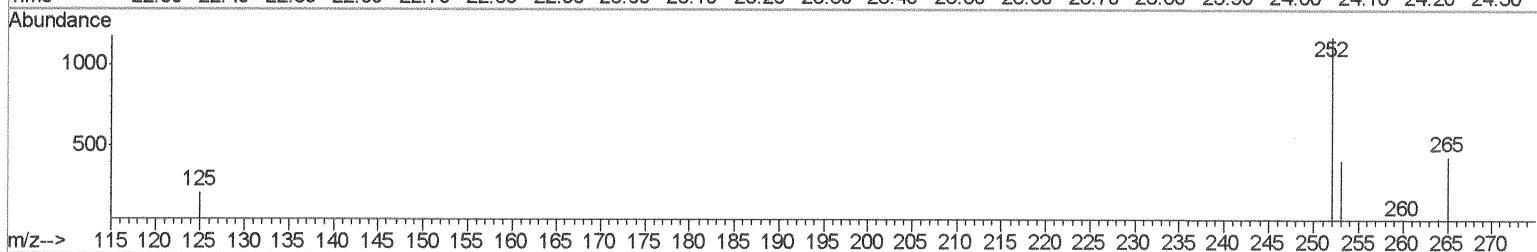
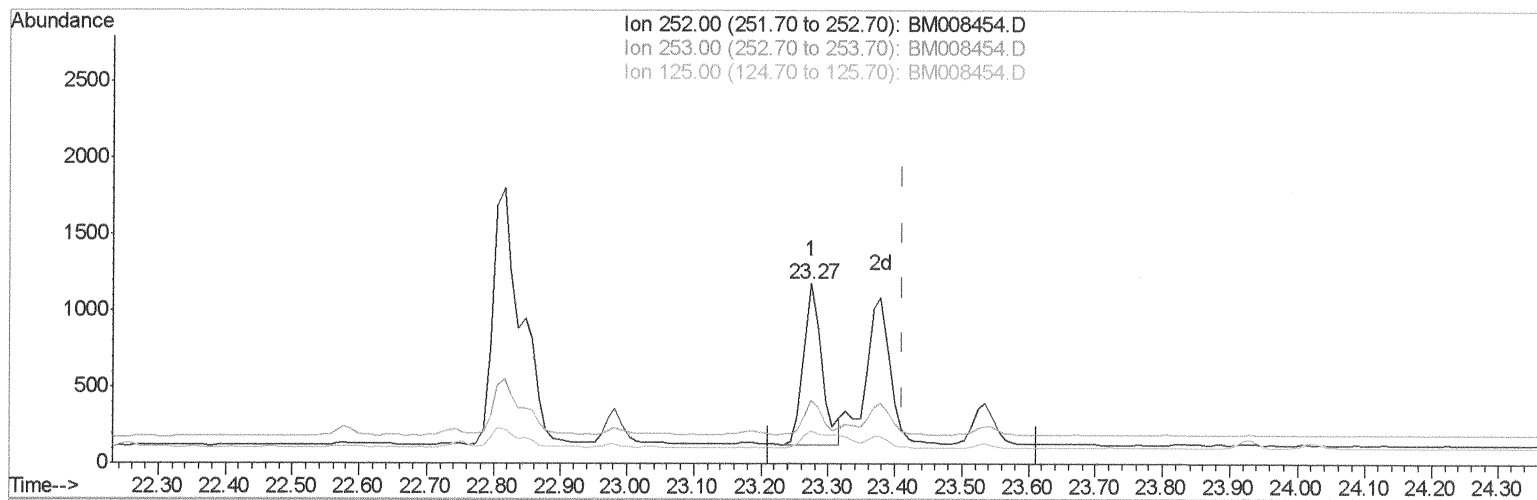
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
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Manual Integrations
APPROVED

sohil
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TIC: BM008454.D

(23) Benzo(a)pyrene (C)

23.274min (-0.139) 0.51ng/ul

response 2039

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	35.51
125.00	22.60	18.47
0.00	0.00	0.00

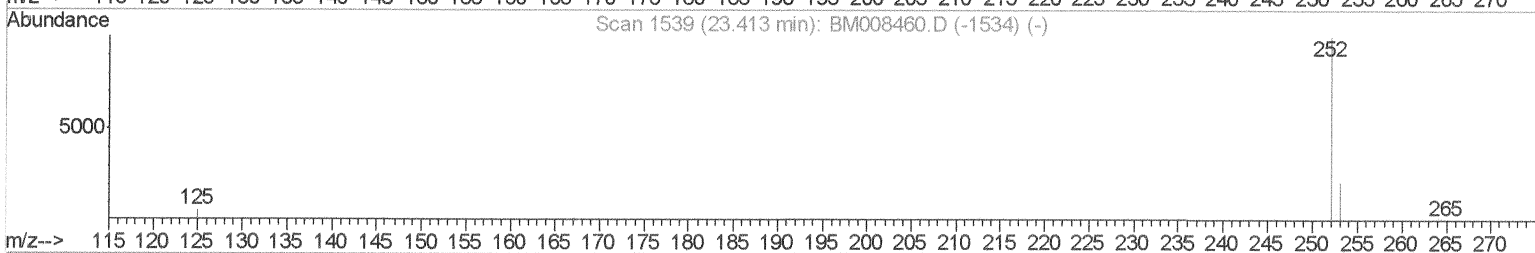
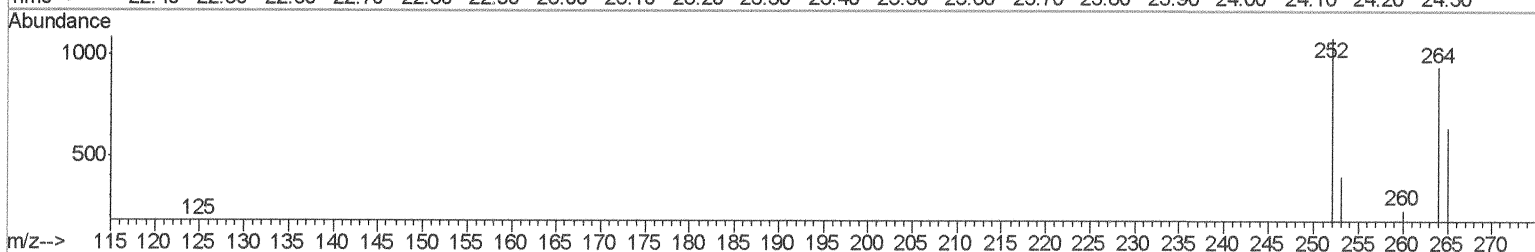
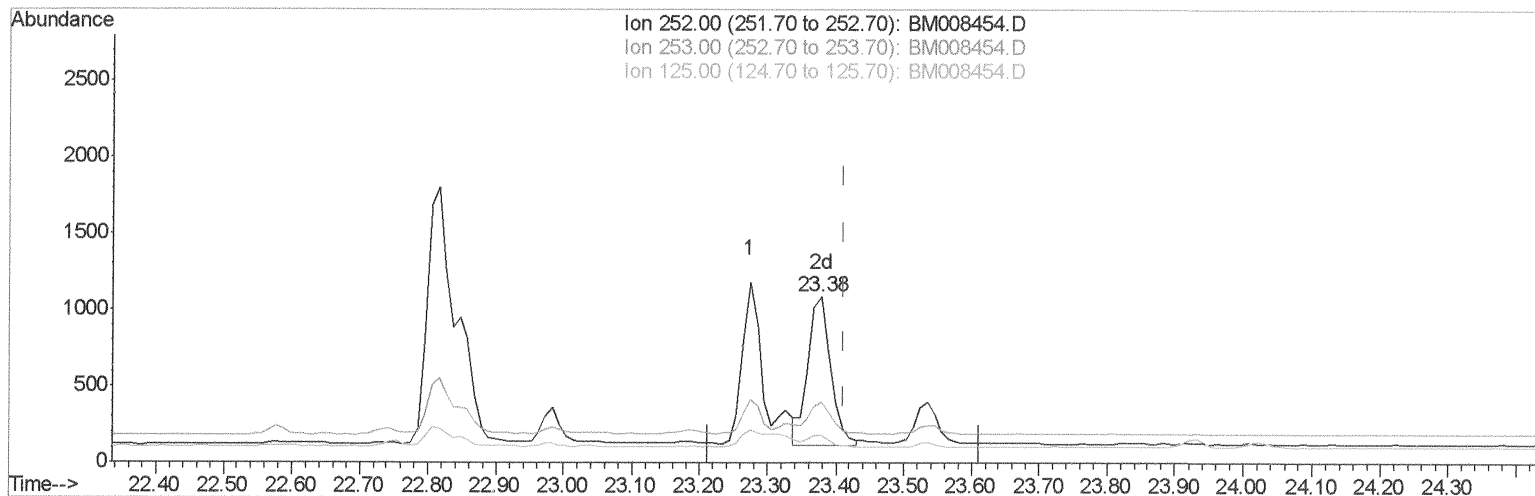
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
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12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:35:36 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: BM008454.D

(23) Benzo(a)pyrene (C)

23.378min (-0.035) 0.57ng/ul m

SJ 12/21/16

response 2278

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	36.73
125.00	22.60	16.62#
0.00	0.00	0.00

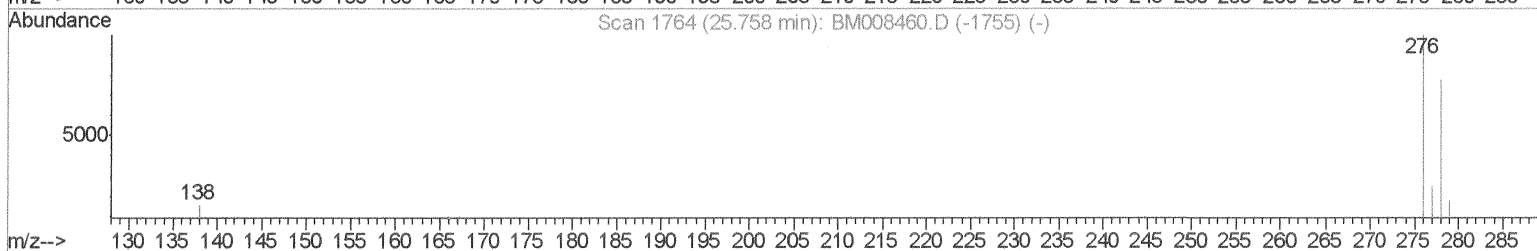
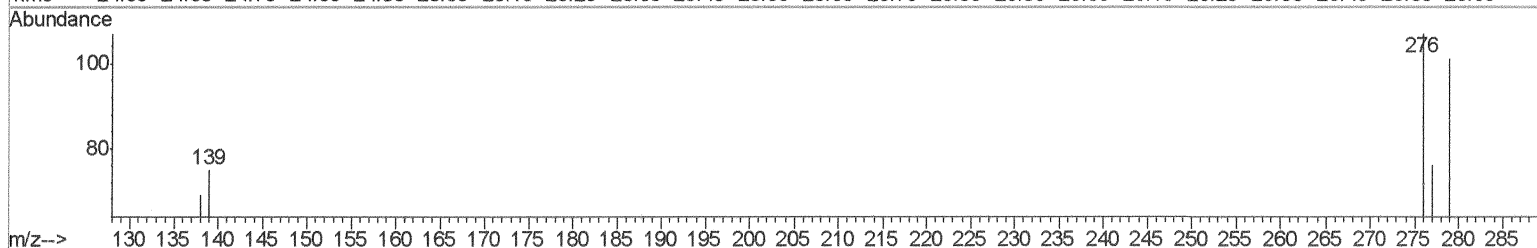
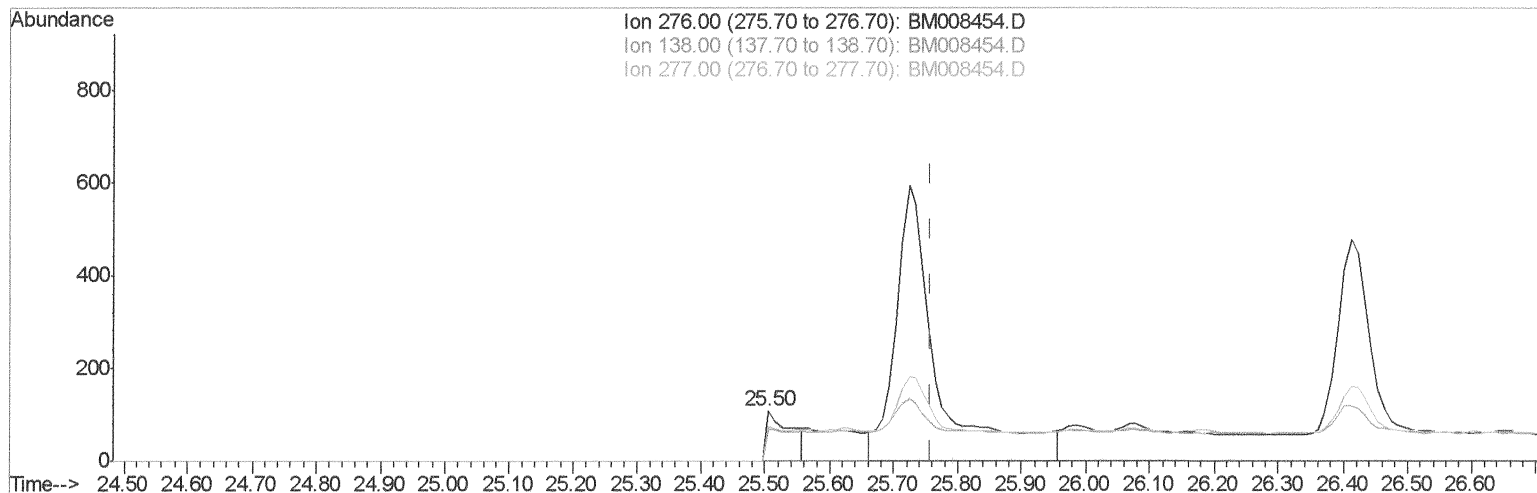
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DA844

Manual Integrations
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12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:35:36 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: BM008454.D

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

25.505min (-0.253) 0.15ng/ul

response 699

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	97.28#
277.00	24.50	103.43#
0.00	0.00	0.00

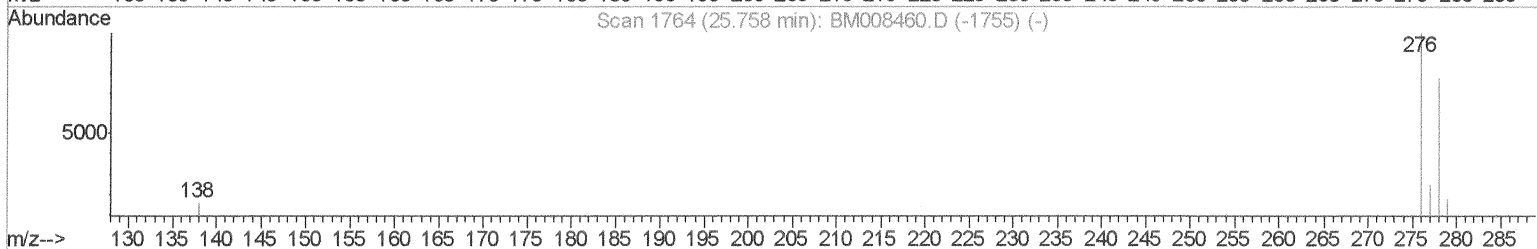
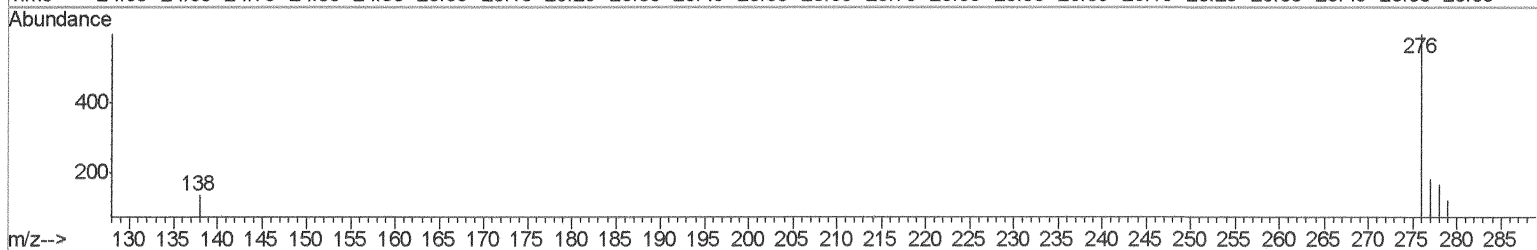
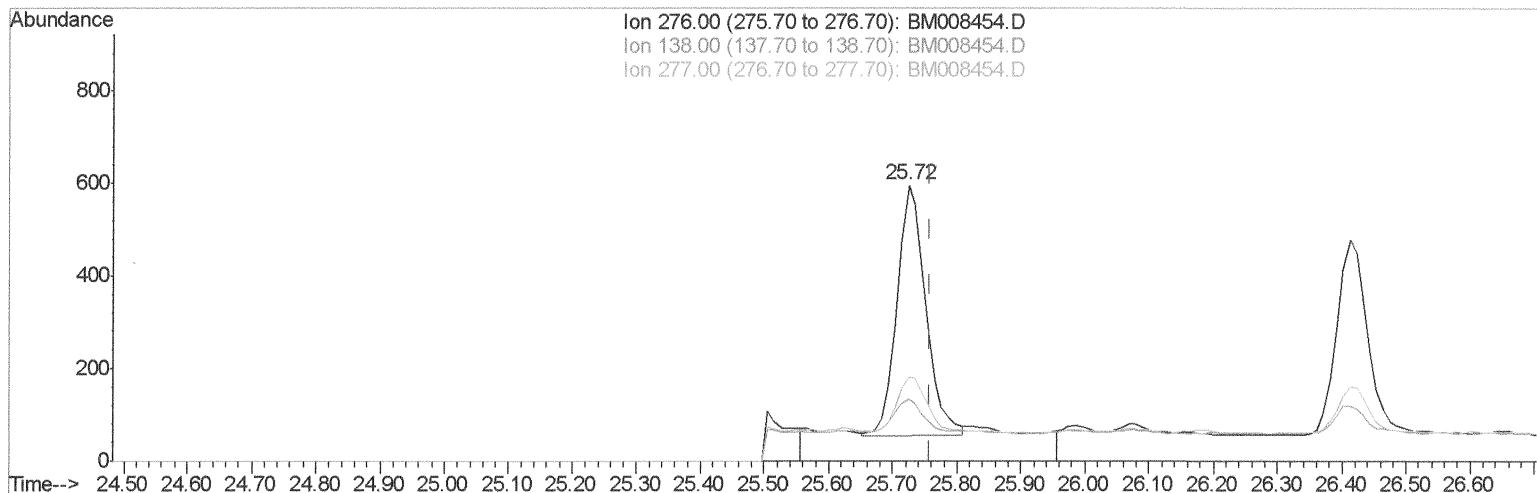
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DA844

Manual Integrations
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Quant Time: Dec 20 12:35:36 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: BM008454.D

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

25.724min (-0.035) 0.35ng/ul m

SJ 12/21/16

response 1683

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	40.40#
277.00	24.50	42.96#
0.00	0.00	0.00

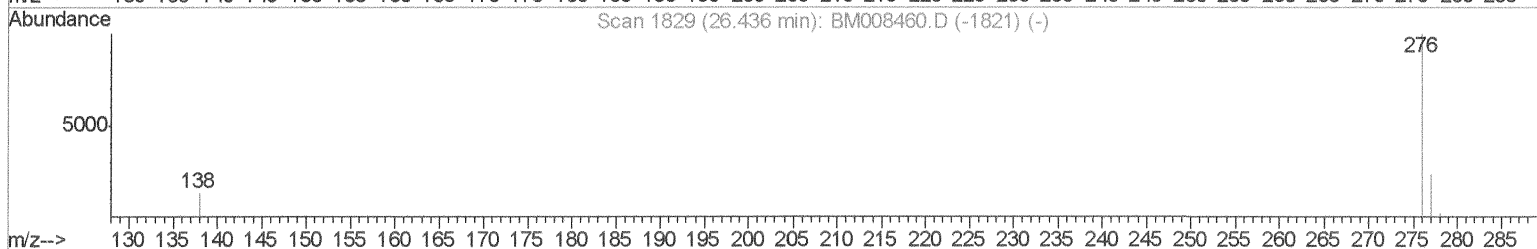
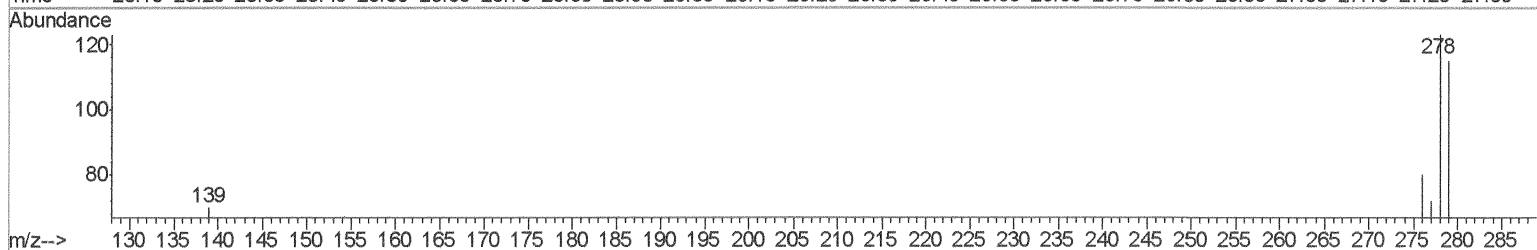
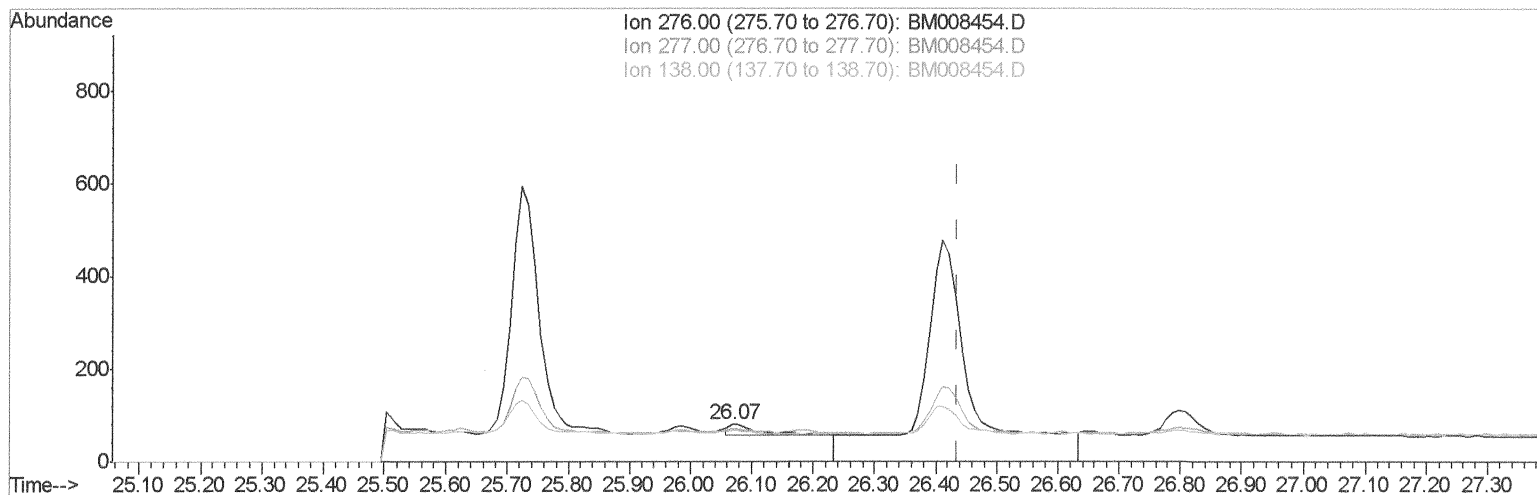
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
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Quant Time: Dec 20 12:35:36 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: BM008454.D

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

26.068min (-0.368) 0.02ng/ul

response 77

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	90.00#
138.00	25.60	83.75#
0.00	0.00	0.00

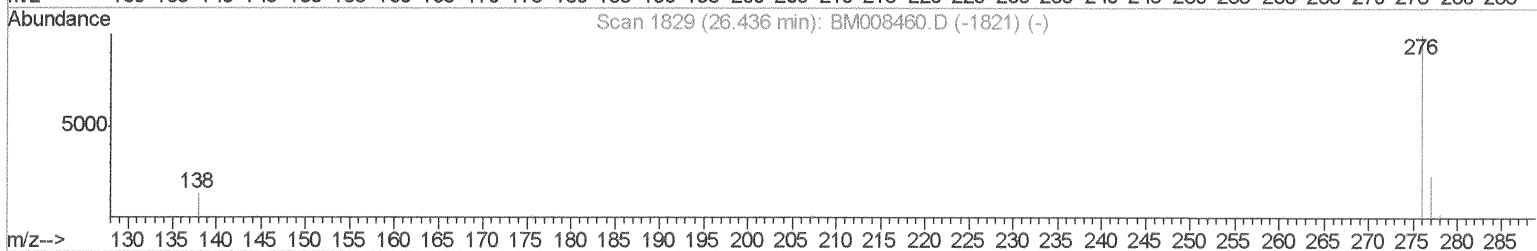
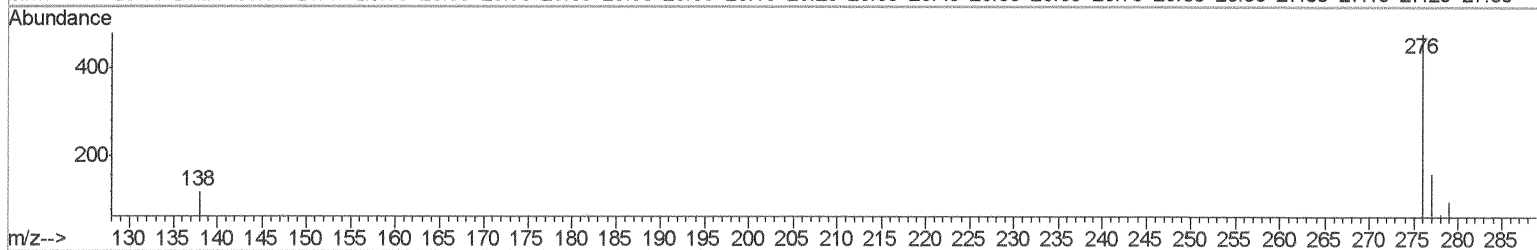
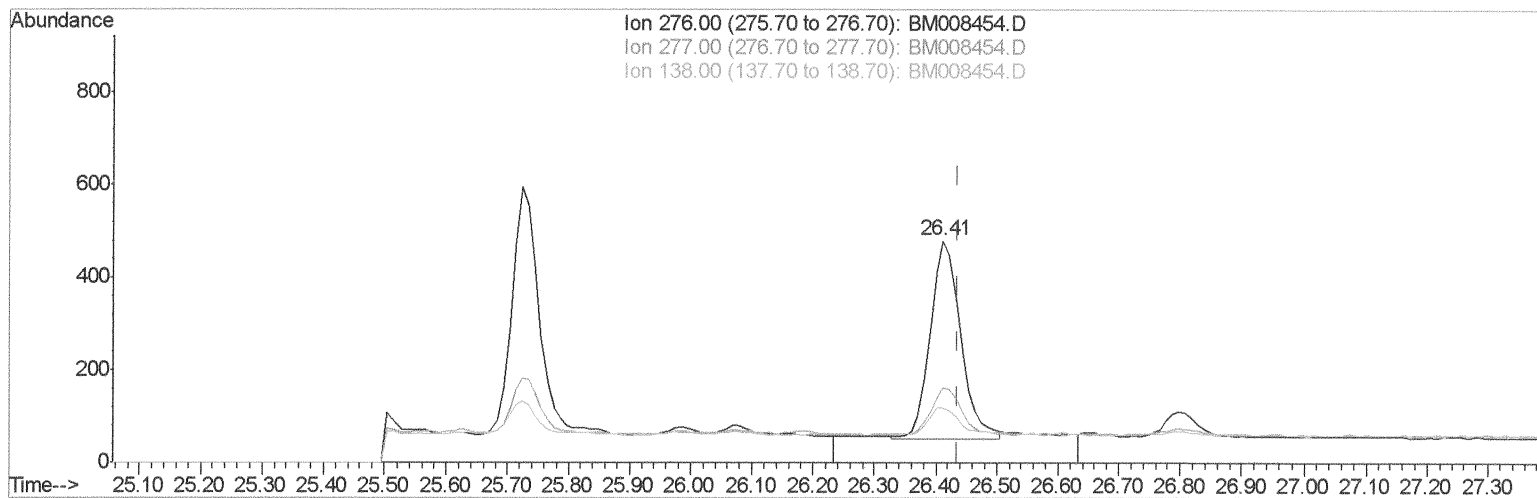
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008454.D
Acq On : 19 Dec 2016 22:49
Operator : UM/SJ
Sample : H5970-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA844

Manual Integrations
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Quant Time: Dec 20 12:35:36 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: BM008454.D

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

26.412min (-0.024) 0.36ng/ul m

SJ 12/21/16

response 1483

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	33.61#
138.00	25.60	24.84
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
 Data File : BM008454.D
 Acq On : 19 Dec 2016 22:49
 Operator : UM/SJ
 Sample : H5970-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA844

Manual Integrations
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 12/20/2016 6:31:15 PM

Quant Time: Dec 20 12:39:41 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	419	0.40	ng/ul	-0.06
2) Naphthalene-d8	10.43	136	1460	0.40	ng/ul	-0.06
6) Acenaphthene-d10	14.30	164	889	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.06	188	1610m	0.40	ng/ul	-0.03
16) Chrysene-d12	21.26	240	1543	0.40	ng/ul	-0.01
20) Perylene-d12	23.48	264	1102m	0.40	ng/ul	-0.02

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
4) 2-Methylnaphthalene-d10	12.04	152	606	0.27	ng/ul	-0.06
14) Fluoranthene-d10	19.10	212	1291	0.29	ng/ul	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.48	128	652	0.16	ng/ul#	79
5) 2-Methylnaphthalene	12.11	142	481	0.17	ng/ul	100
8) Acenaphthene	14.35	153	102	0.03	ng/ul#	82
12) Phenanthrene	17.09	178	1416m	0.29	ng/ul	
15) Fluoranthene	19.12	202	2004	0.33	ng/ul	96
17) Pyrene	19.48	202	2265	0.38	ng/ul	95
18) Benzo(a)anthracene	21.24	228	1798m	0.35	ng/ul	
19) Chrysene	21.29	228	1967	0.35	ng/ul	93
21) Benzo(b)fluoranthene	22.82	252	3748m	0.86	ng/ul	
22) Benzo(k)fluoranthene	22.85	252	1270m	0.30	ng/ul	
23) Benzo(a)pyrene	23.38	252	2278m	0.57	ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.72	276	1683m	0.35	ng/ul	
26) Benzo(g,h,i)perylene	26.41	276	1483m	0.36	ng/ul	

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} SJ 12/21/16

} SJ 12/21/16

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