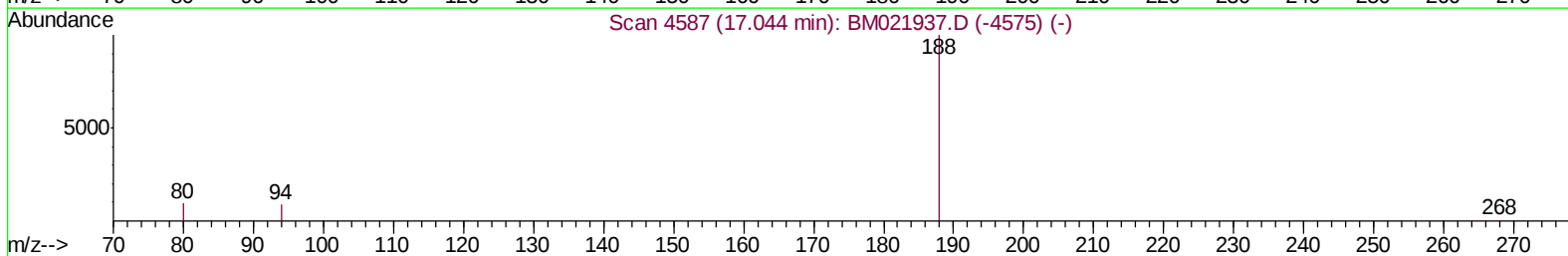
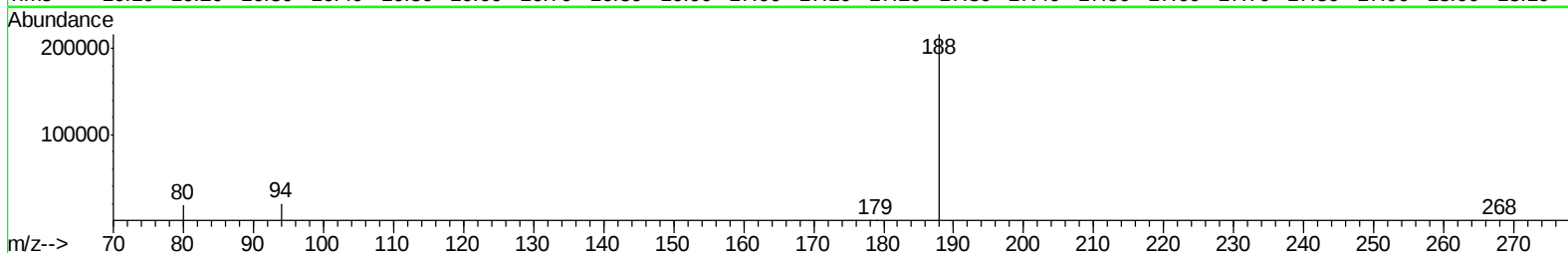
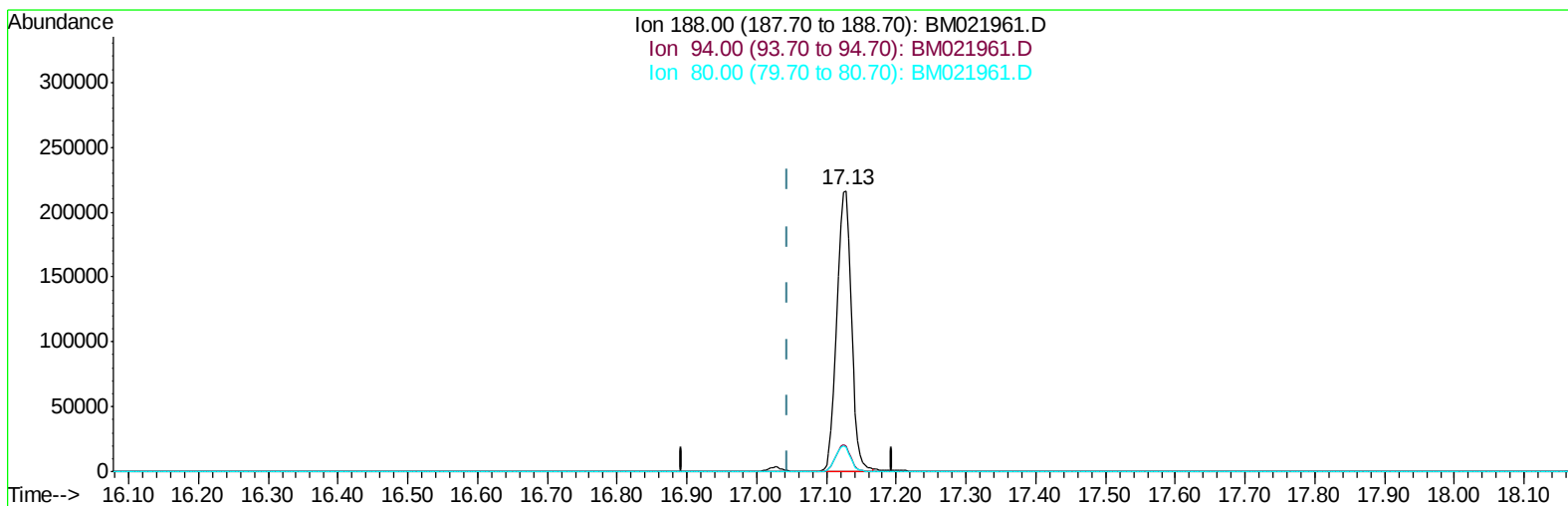


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:10:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(10) Phenanthrene-d10 (I)

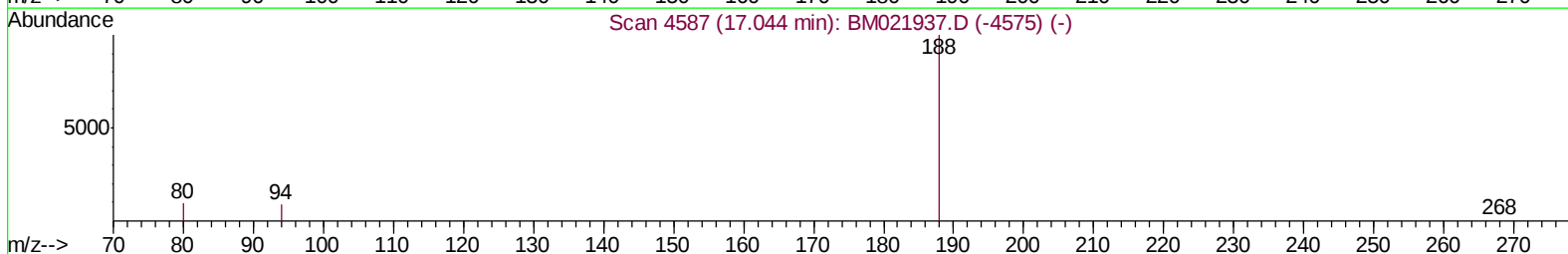
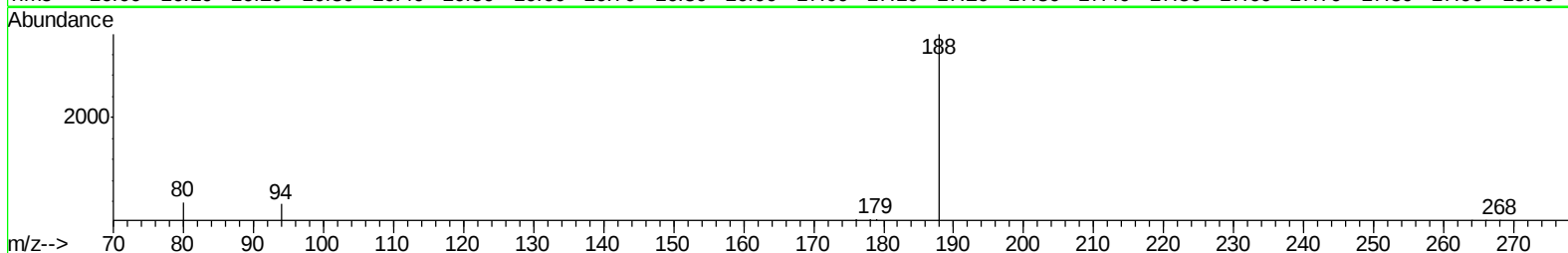
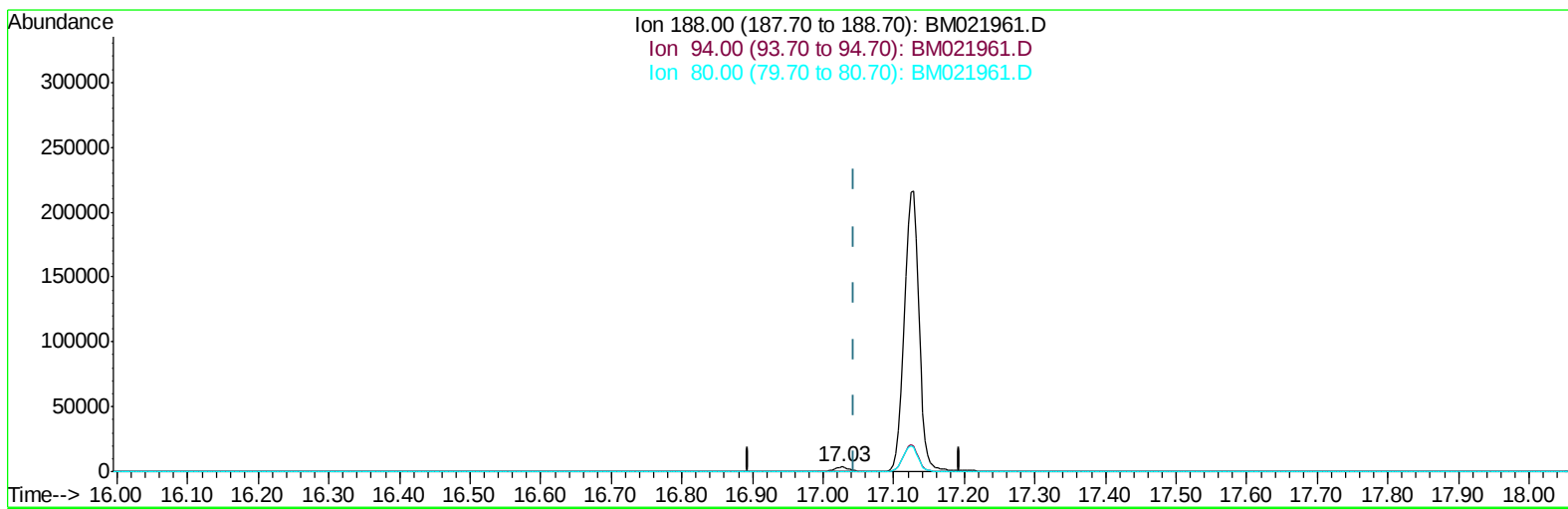
17.128min (+0.083) 0.40ng/ul

response 307586

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	8.98
80.00	11.40	8.49#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:10:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(10) Phenanthrene-d10 (I)

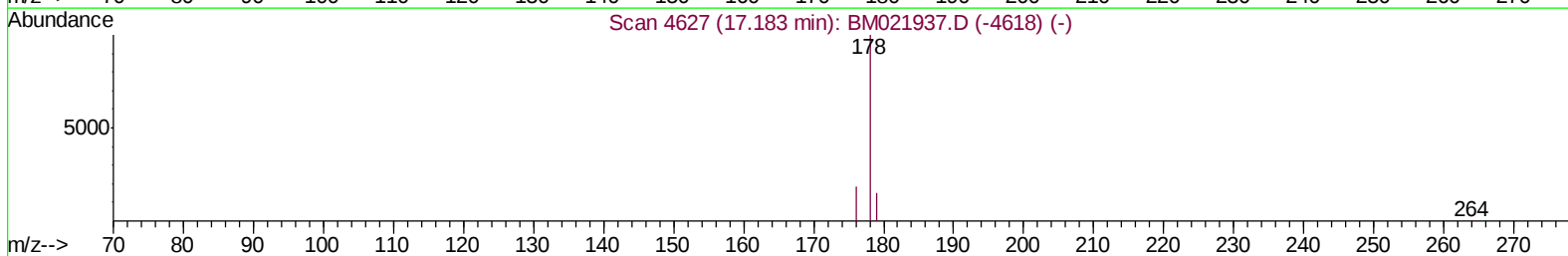
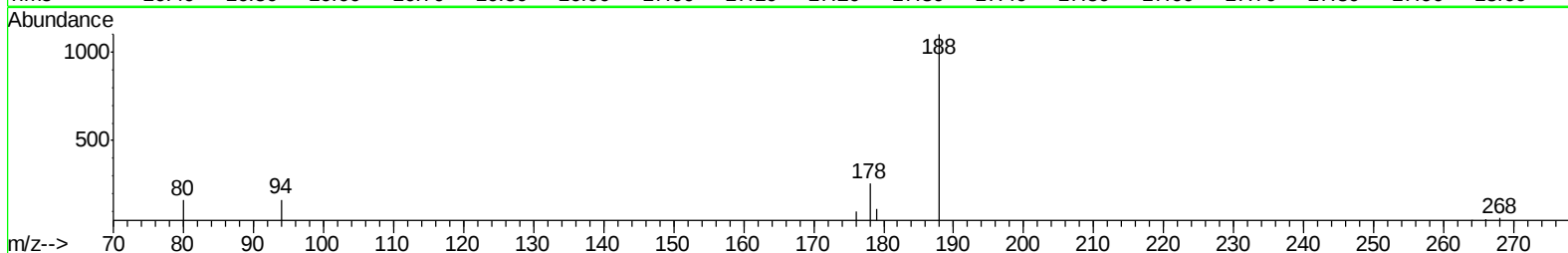
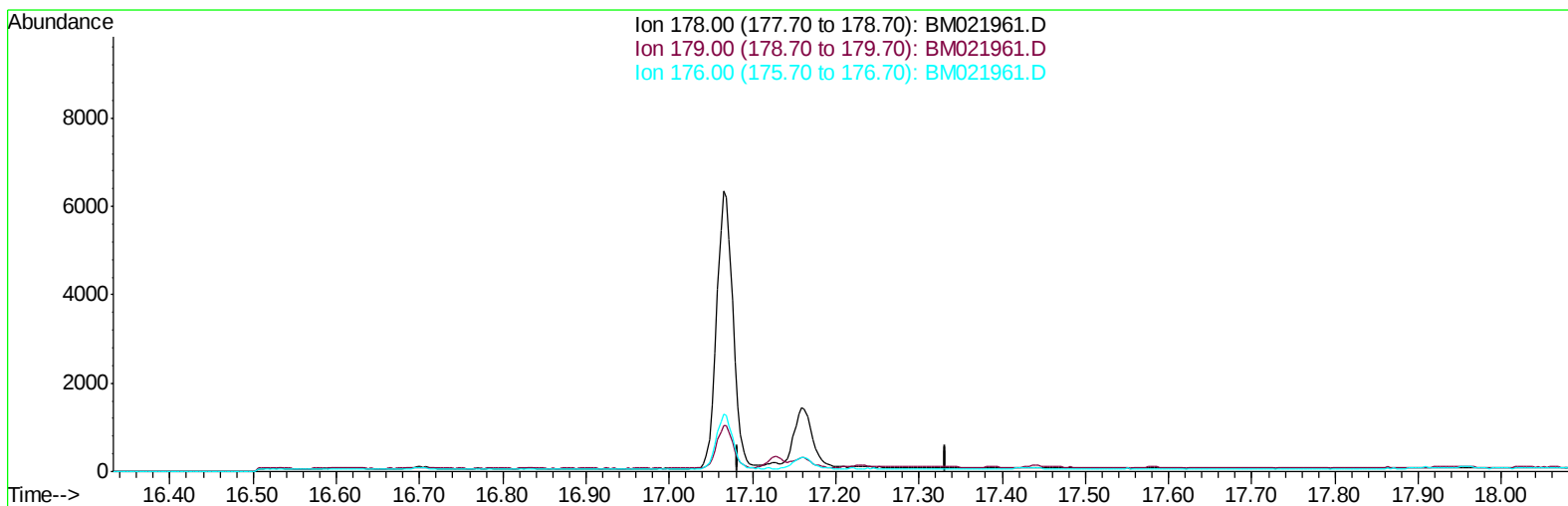
17.027min (-0.017) 0.40ng/ul m

response 5189

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	10.02
80.00	11.40	10.94
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(13) Anthracene

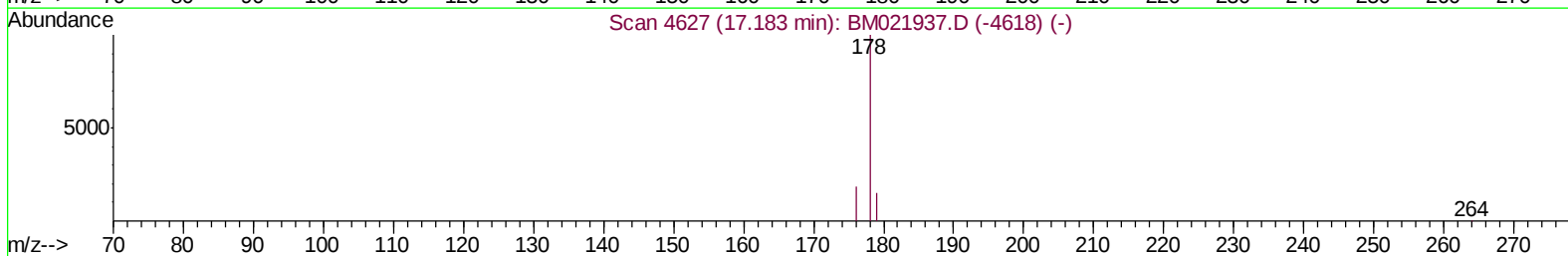
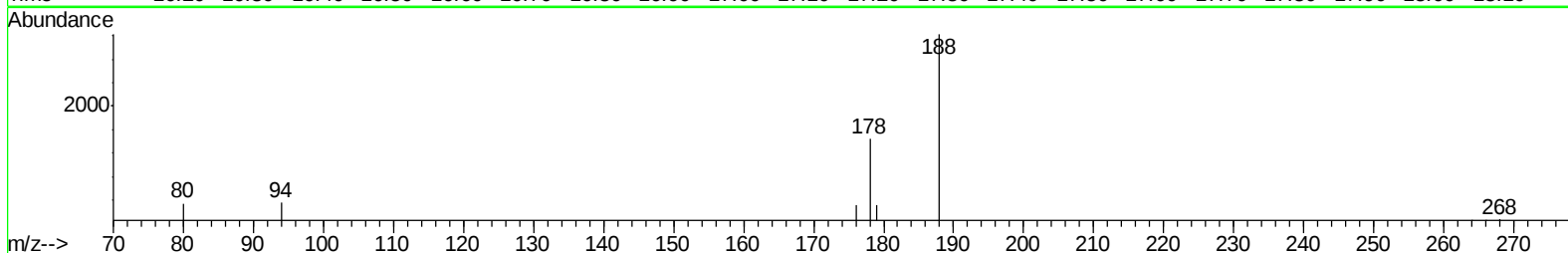
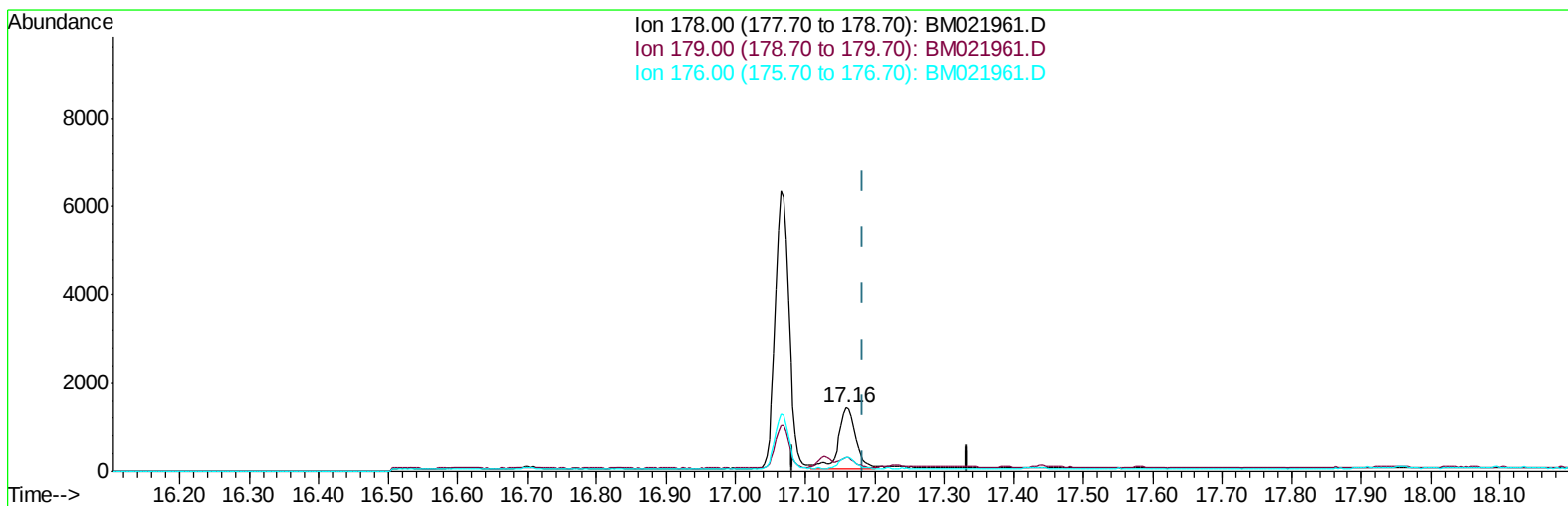
17.183min (-17.183) 0.00ng/ul

response 0

Ion	Exp%	Act%
178.00	100	0.00
179.00	19.40	0.00#
176.00	20.80	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(13) Anthracene

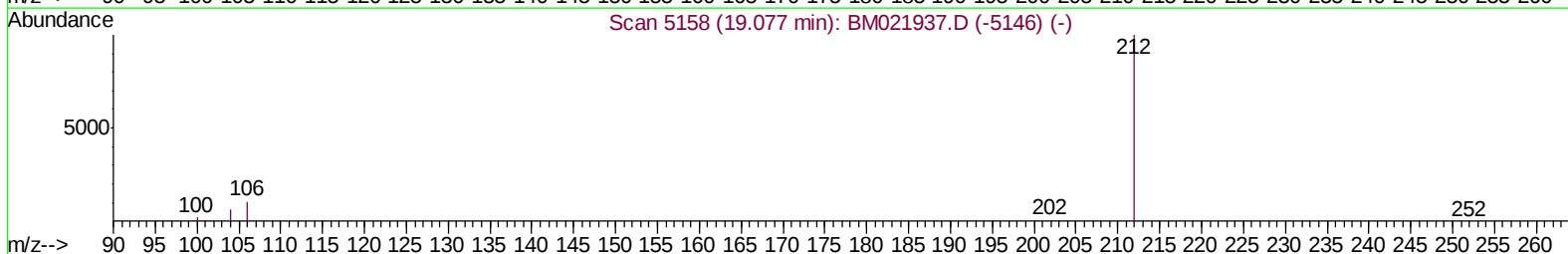
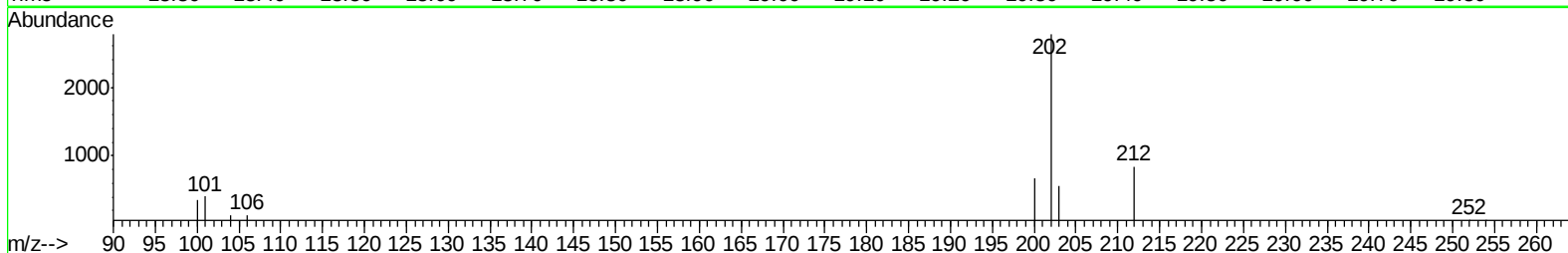
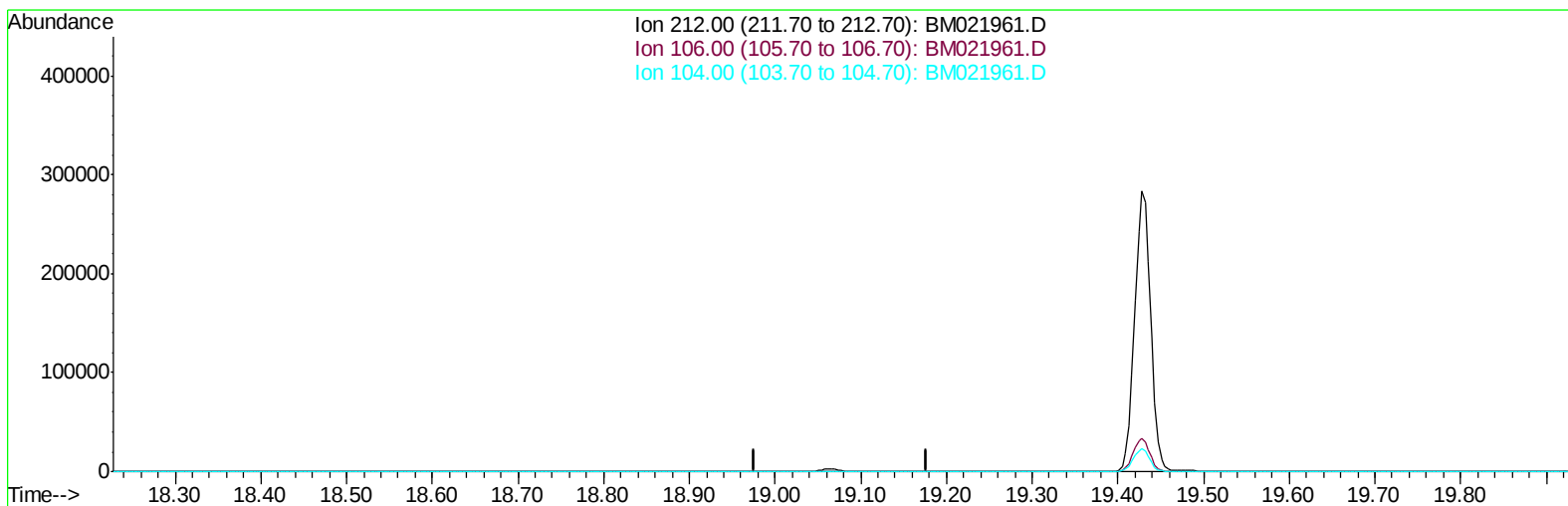
17.159min (-0.024) 0.19ng/ul m

response 2404

Ion	Exp%	Act%
178.00	100	100
179.00	19.40	21.42
176.00	20.80	22.25
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(14) Fluoranthene-d10 (SURRE)

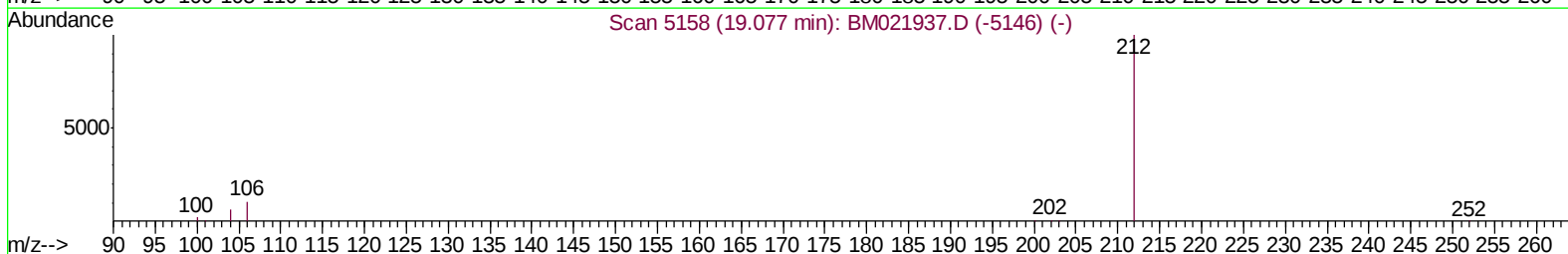
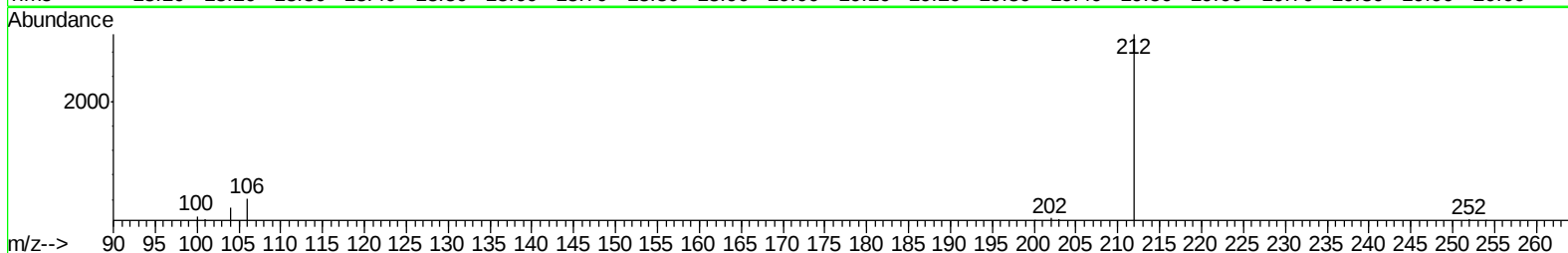
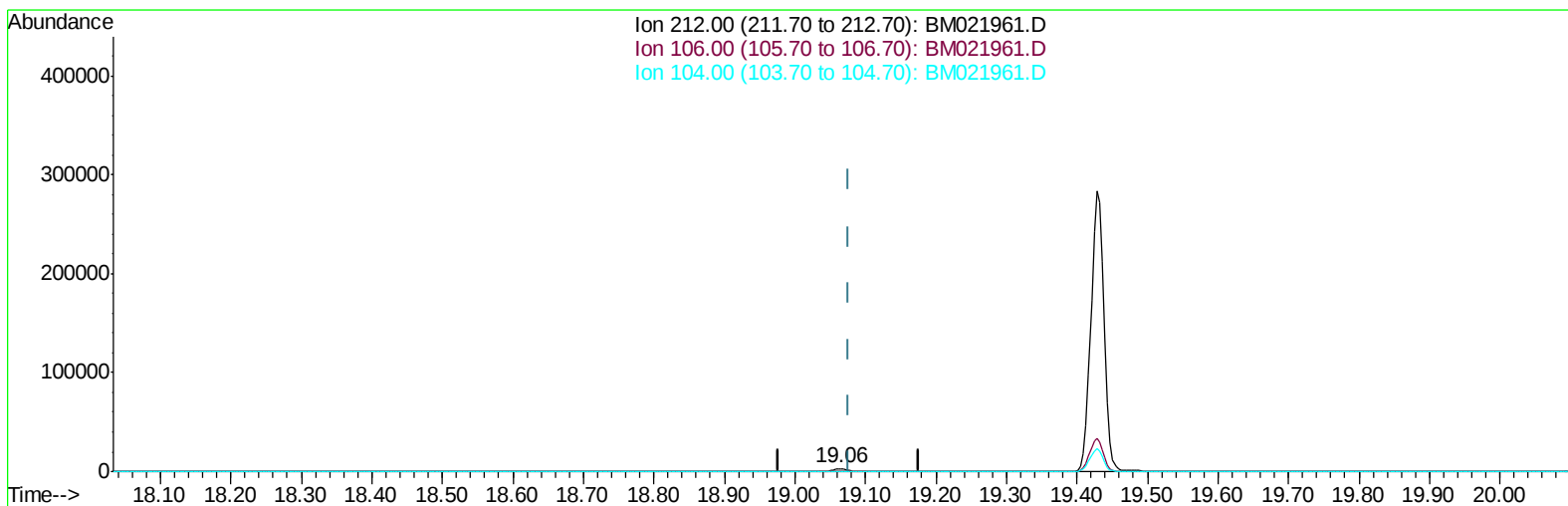
19.077min (-19.077) 0.00ng/ul

response 0

Ion	Exp%	Act%
212.00	100	0.00
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(14) Fluoranthene-d10 (Surr)

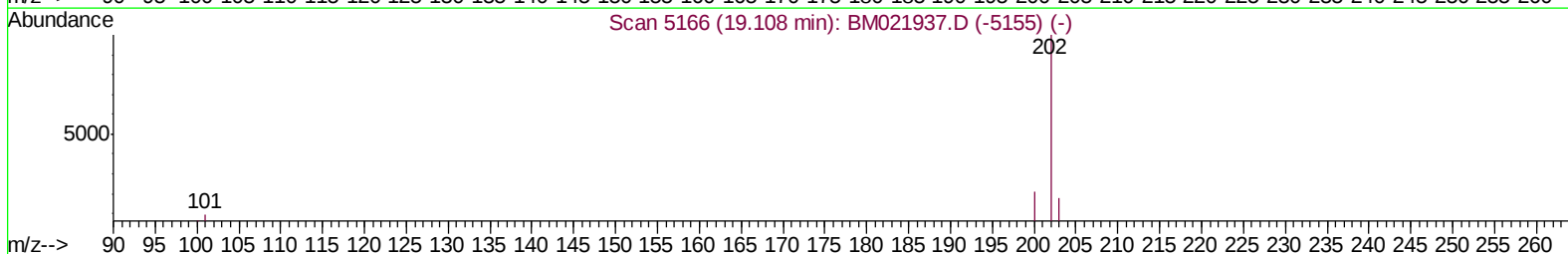
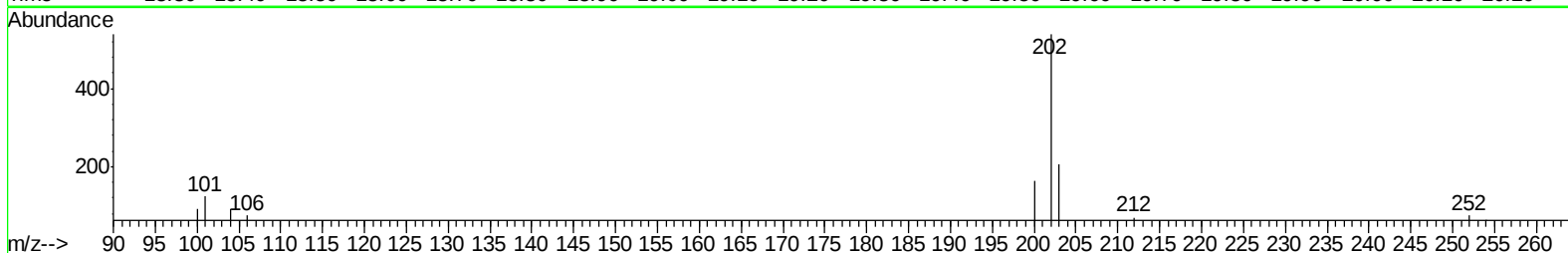
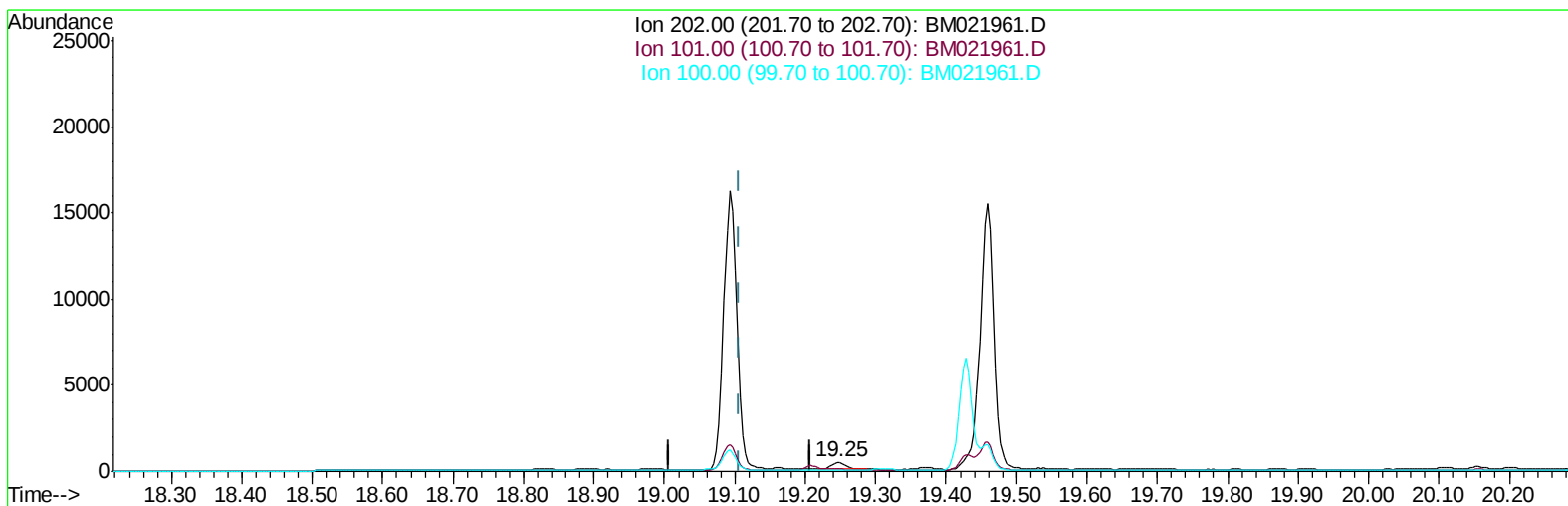
19.062min (-0.015) 0.25ng/ul m

response 4294

Ion	Exp%	Act%
212.00	100	100
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(15) Fluoranthene (C)

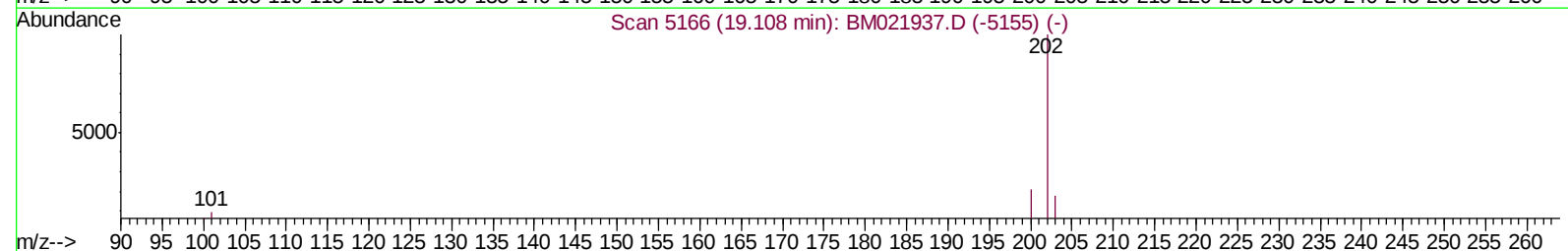
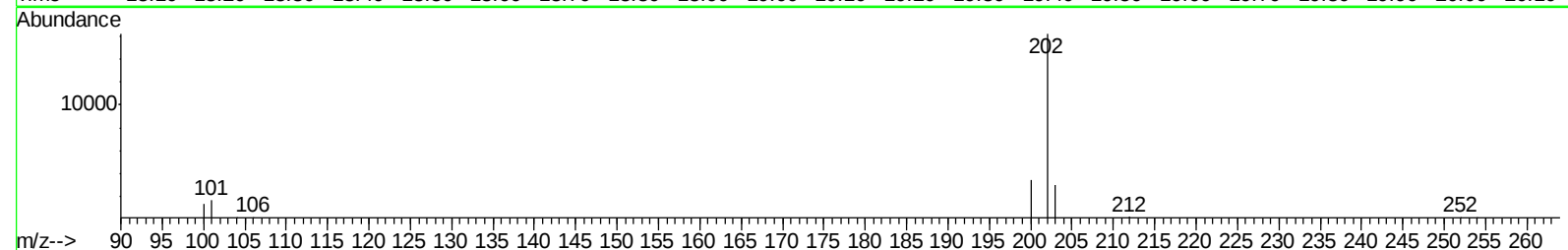
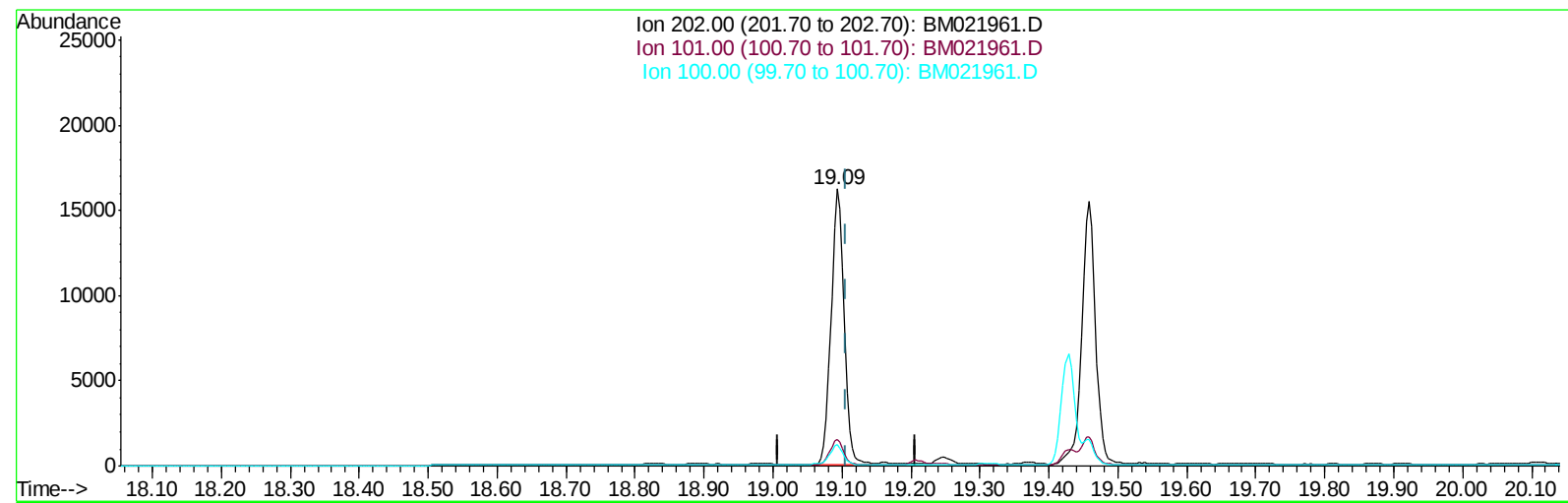
19.249min (+0.141) 0.03ng/ul

response 627

Ion	Exp%	Act%
202.00	100	100
101.00	10.20	23.01
100.00	8.10	16.88
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(15) Fluoranthene (C)

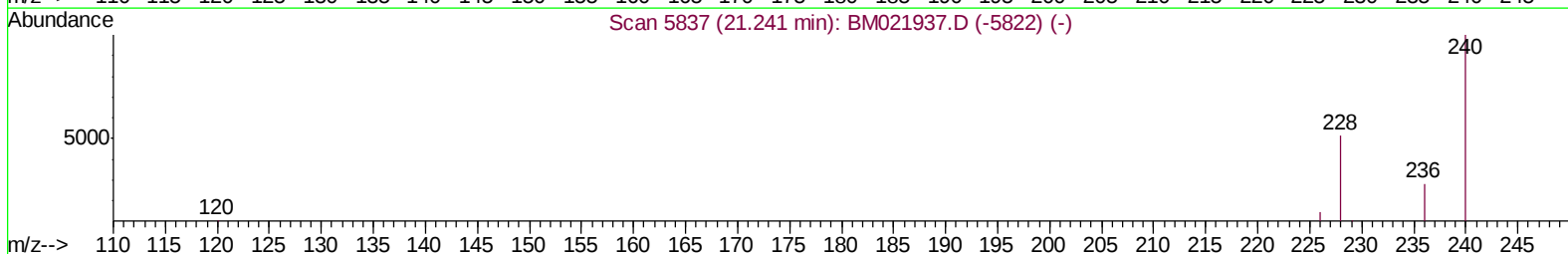
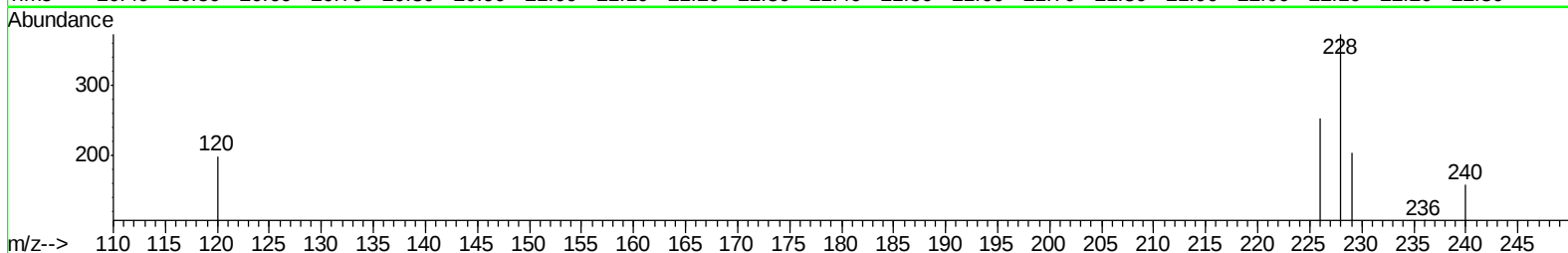
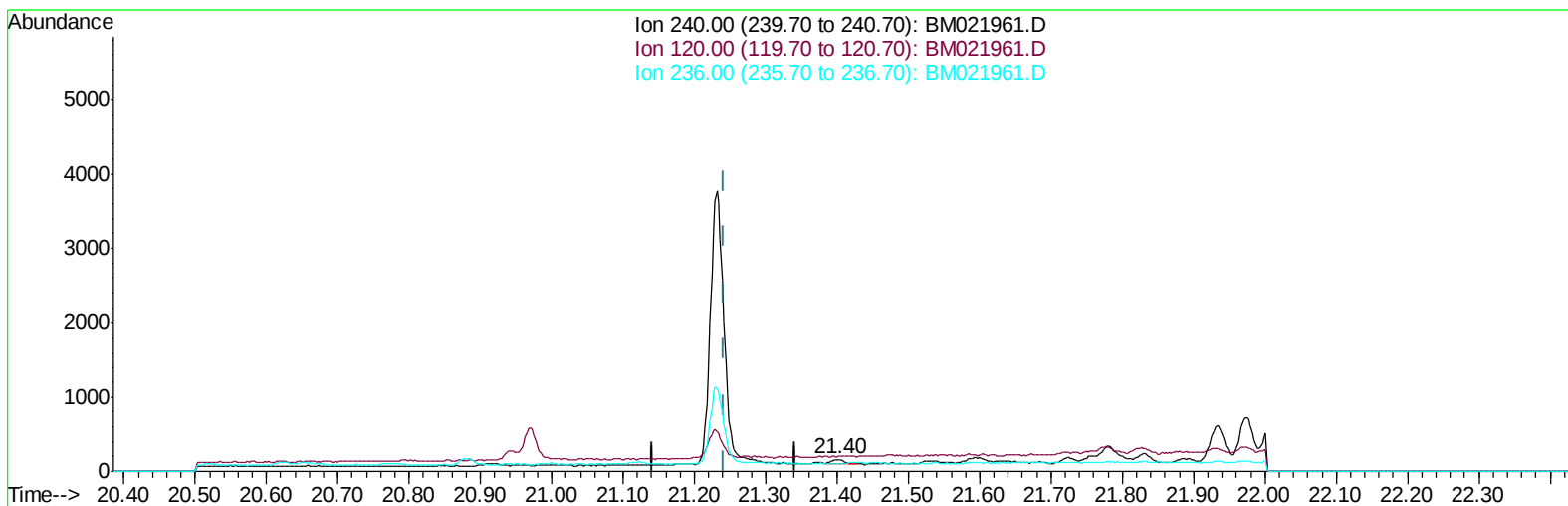
19.093min (-0.015) 1.06ng/ul m

response 21423

Ion	Exp%	Act%
202.00	100	100
101.00	10.20	9.72
100.00	8.10	7.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(16) Chrysene-d12 (I)

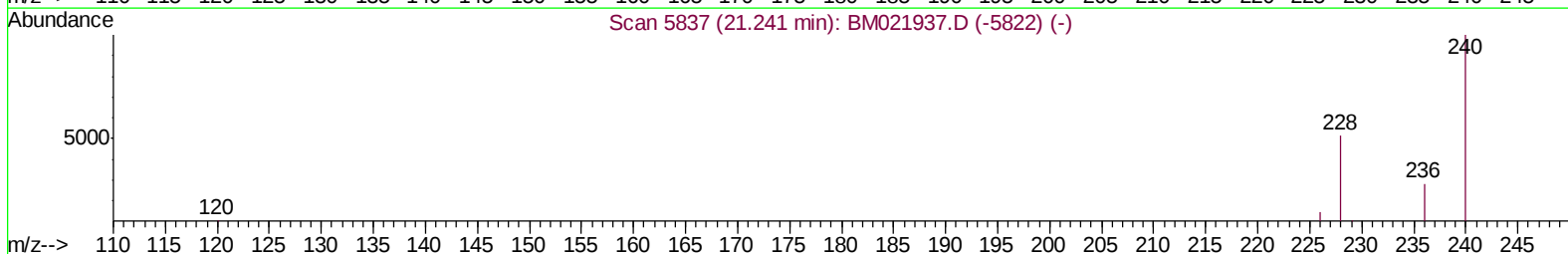
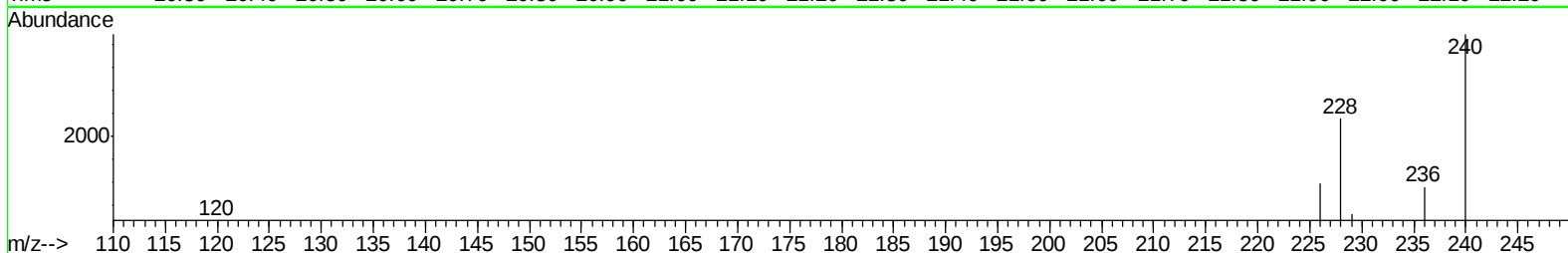
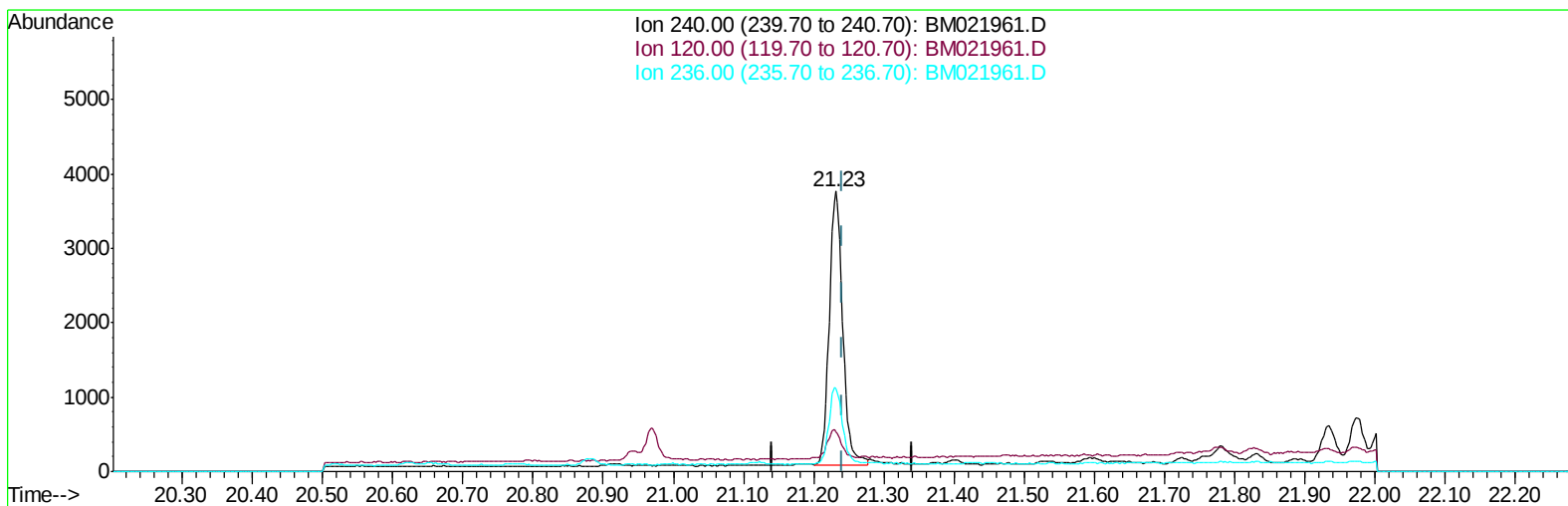
21.401min (+0.160) 0.40ng/ul

response 74

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	126.11#
236.00	32.30	68.15#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:11:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(16) Chrysene-d12 (I)

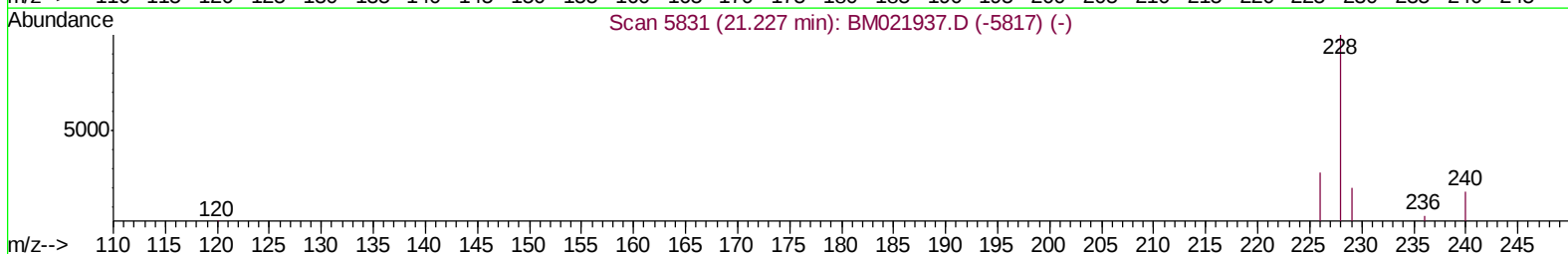
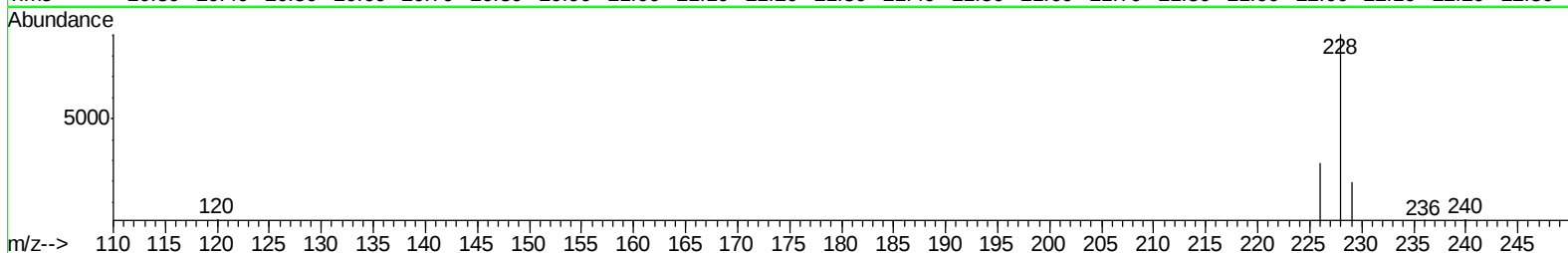
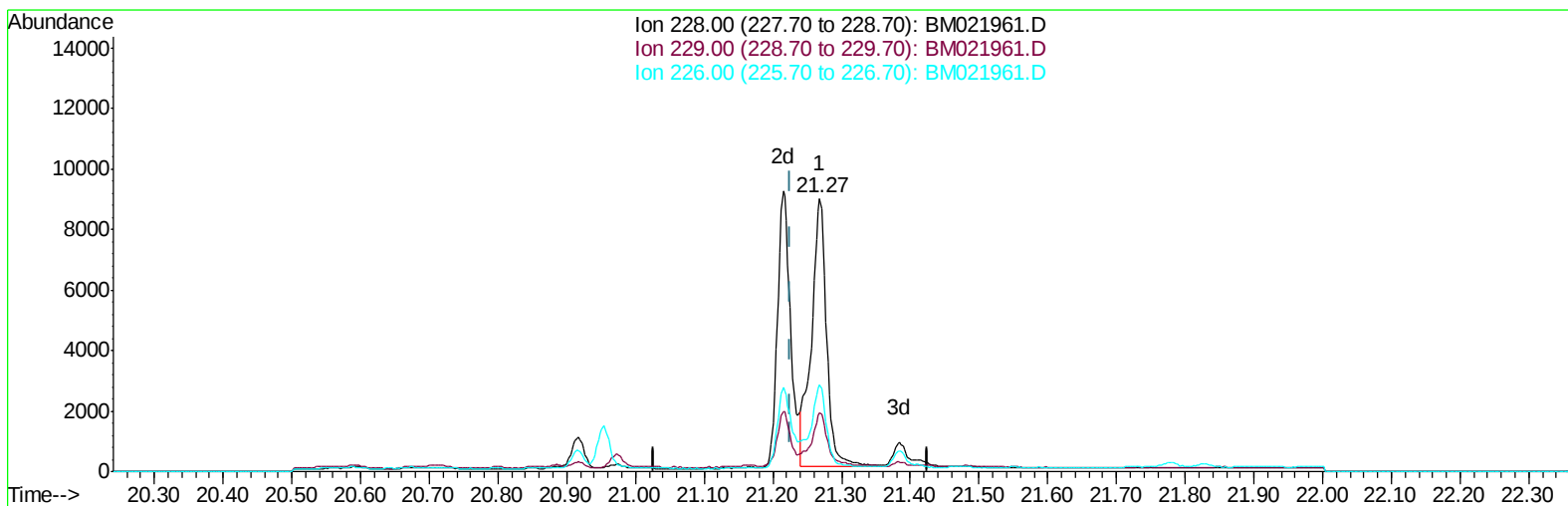
21.232min (-0.010) 0.40ng/ul m

response 4923

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	14.18
236.00	32.30	29.64
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:12:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



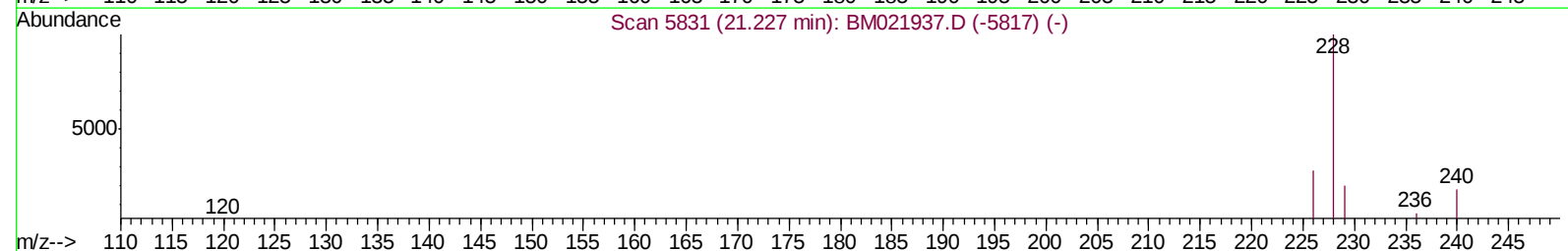
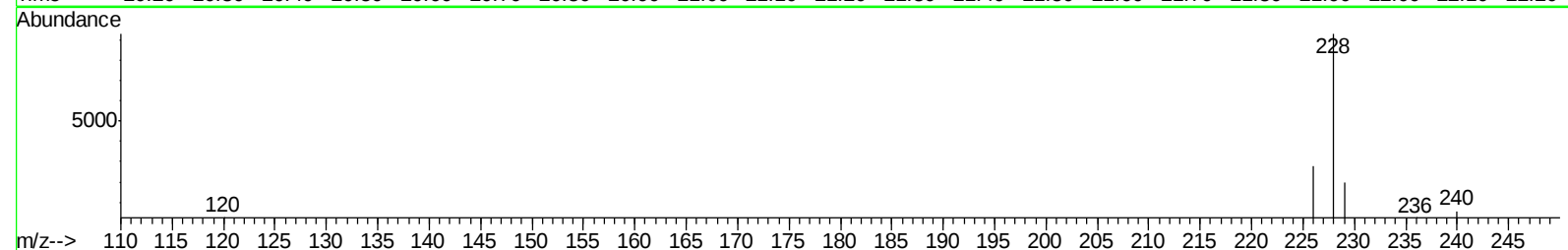
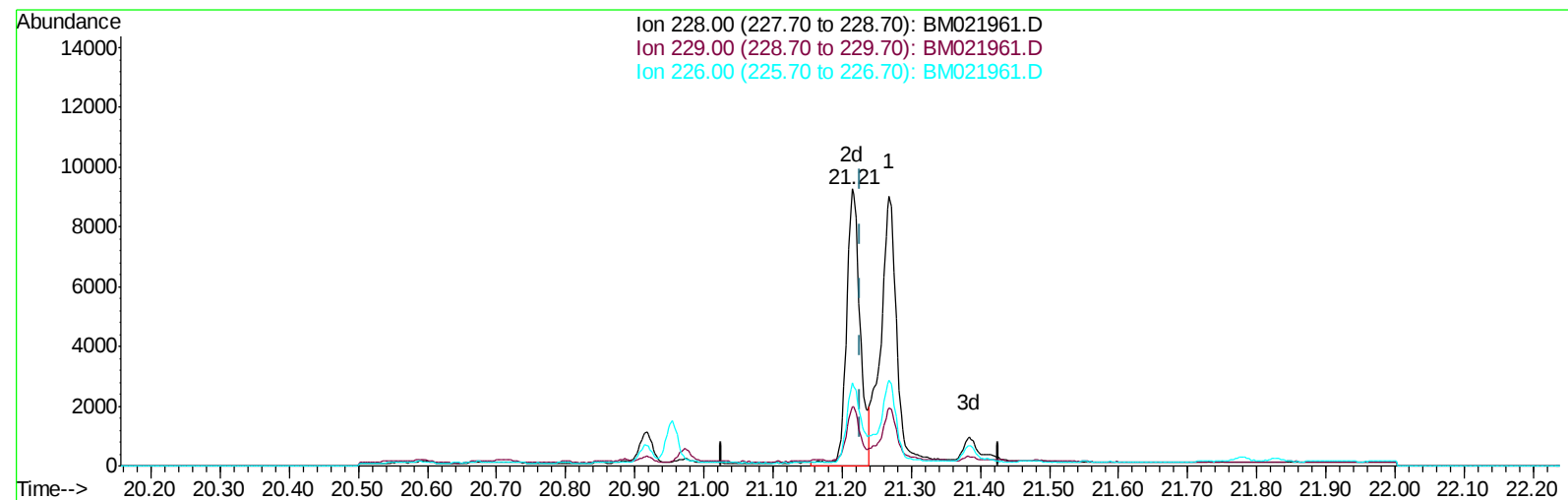
TIC: BM021961.D

(18) Benzo(a)anthracene
21.268min (+0.041) 0.79ng/ul
response 13875

Ion	Exp%	Act%
228.00	100	100
229.00	21.50	21.52
226.00	28.30	31.74
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:12:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(18) Benzo(a)anthracene

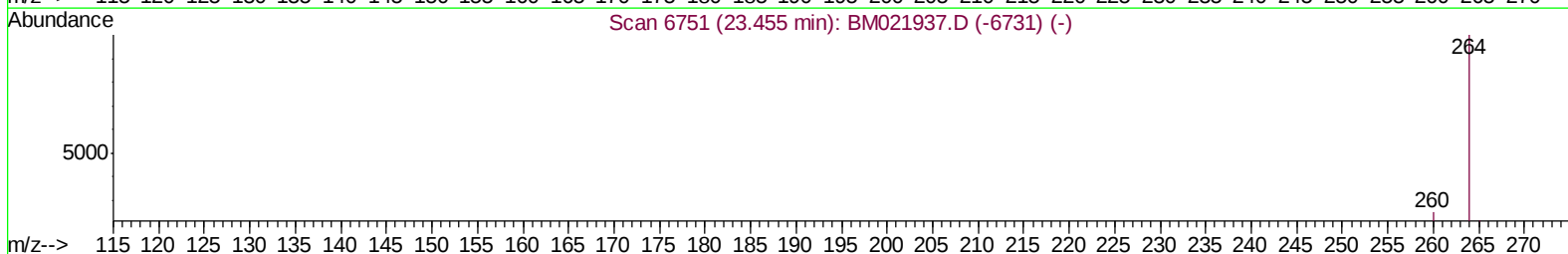
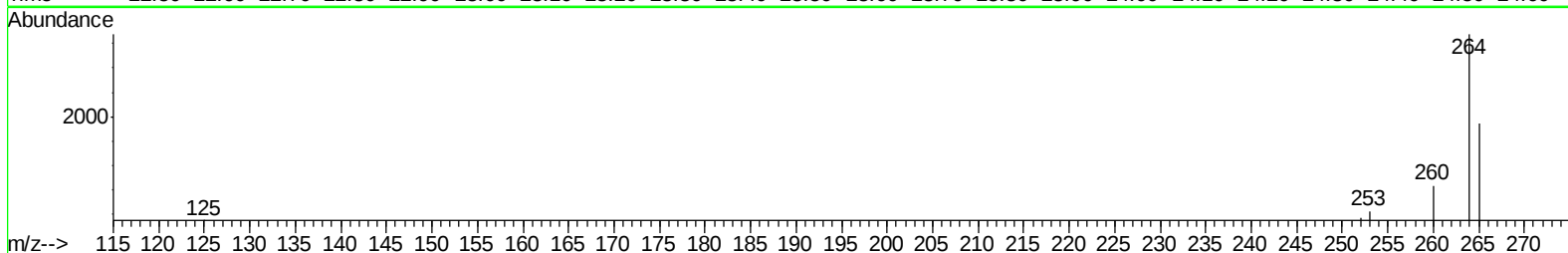
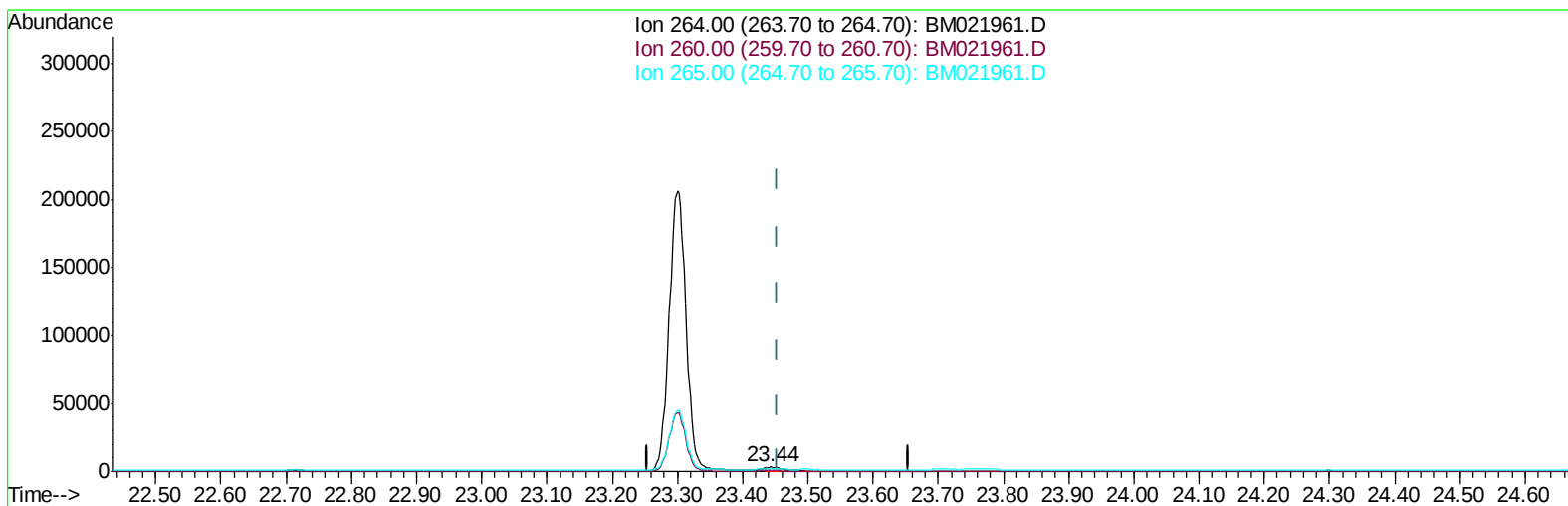
21.215min (-0.012) 0.73ng/ul m

response 12774

Ion	Exp%	Act%
228.00	100	100
229.00	21.50	21.29
226.00	28.30	29.79
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:12:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(20) Perylene-d12 (I)

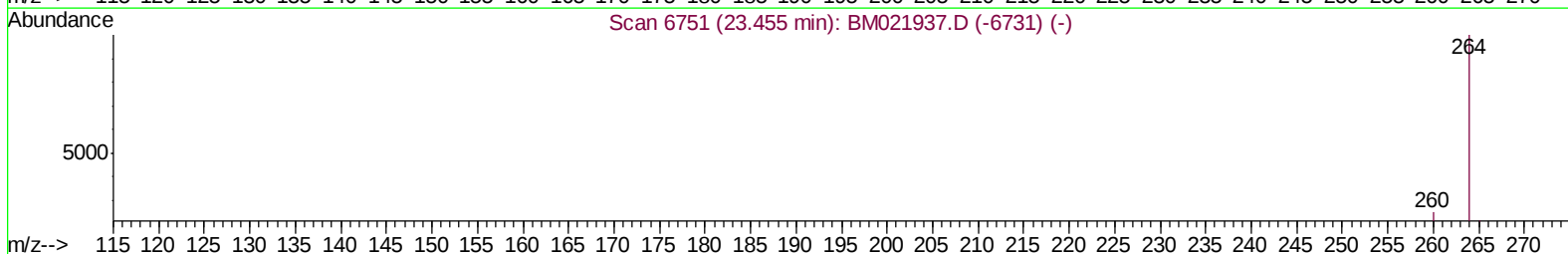
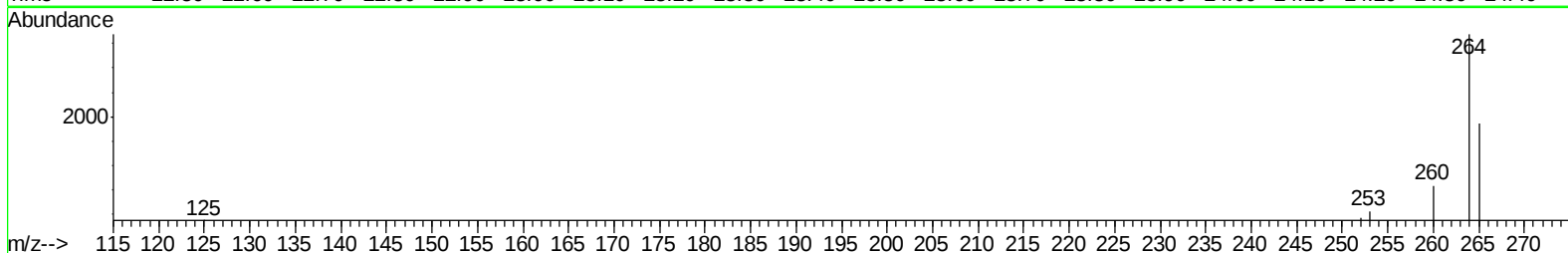
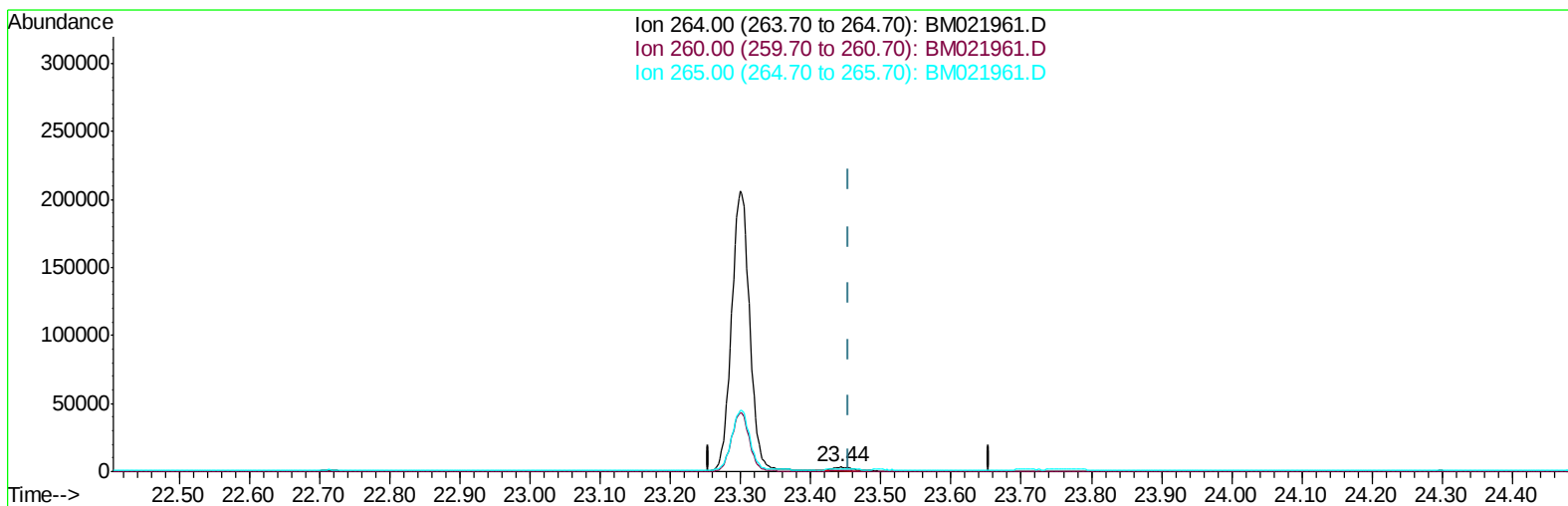
23.443min (-0.012) 0.40ng/ul

response 5912

Ion	Exp%	Act%
264.00	100	100
260.00	27.50	26.04
265.00	117.00	56.55#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:12:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(20) Perylene-d12 (I)

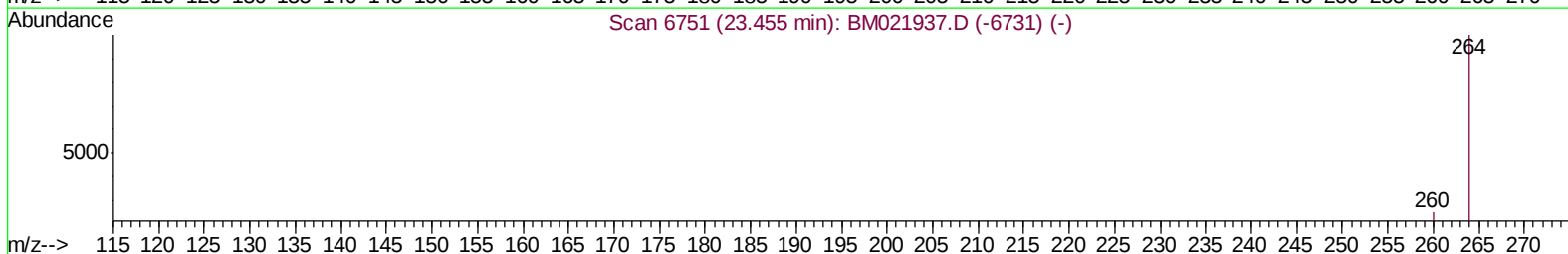
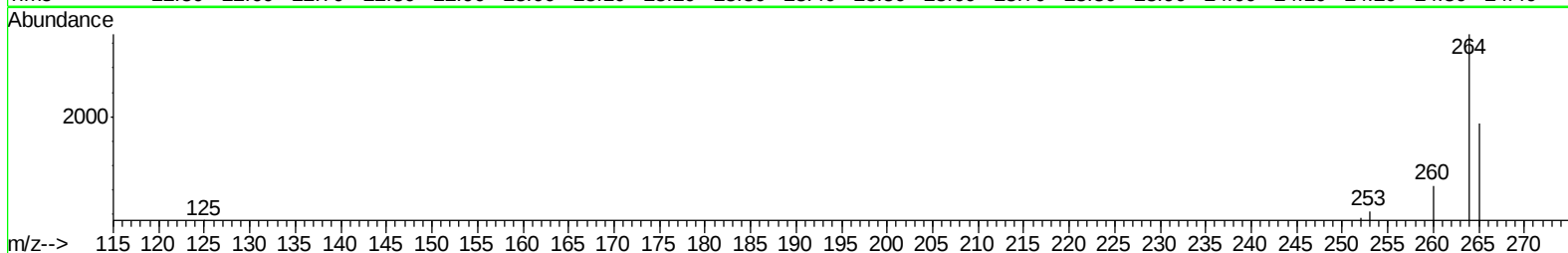
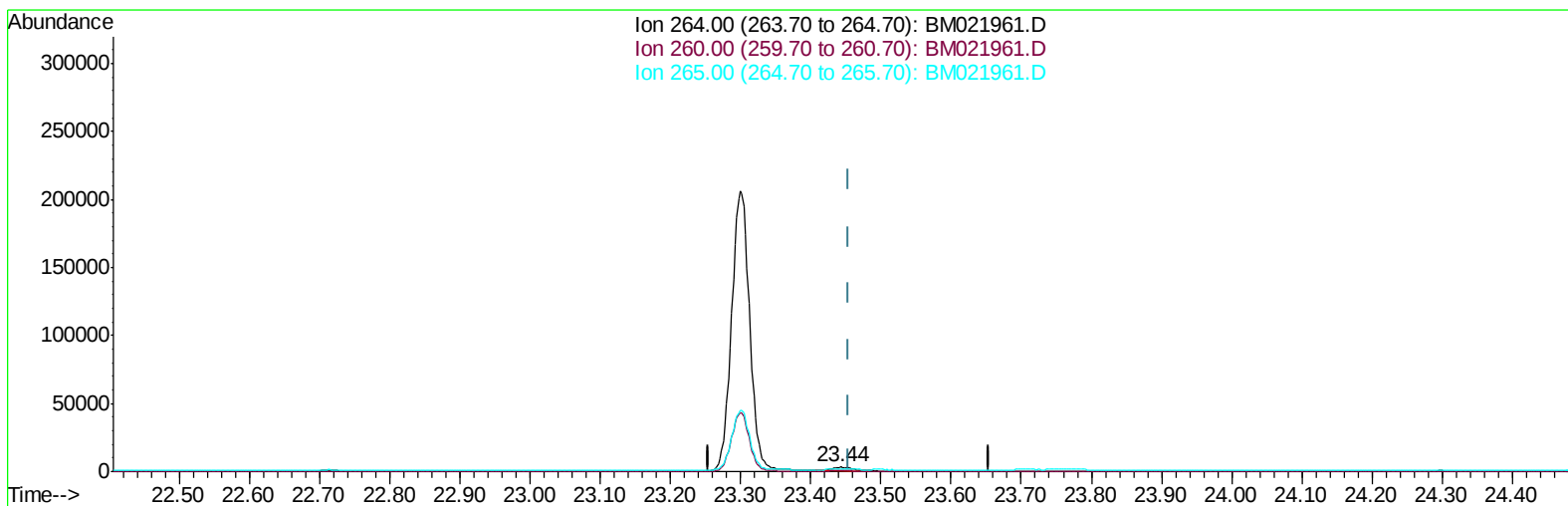
23.443min (-0.012) 0.40ng/ul m

response 5133

Ion	Exp%	Act%
264.00	100	100
260.00	27.50	26.04
265.00	117.00	56.55#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:13:39 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



TIC: BM021961.D

(20) Perylene-d12 (I)

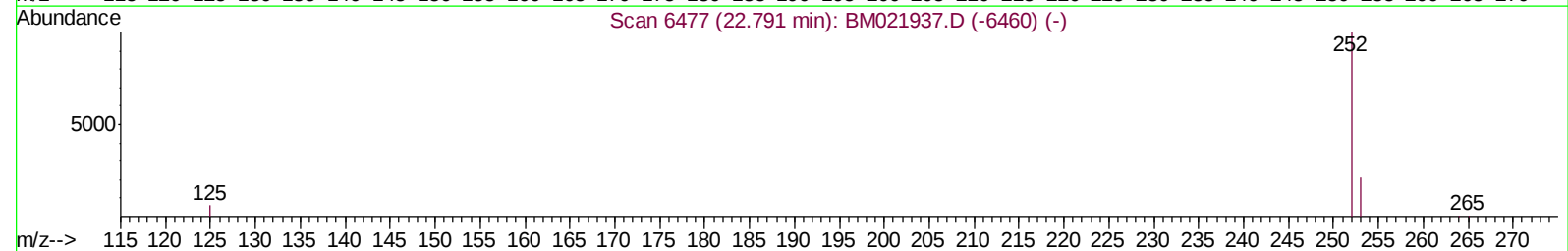
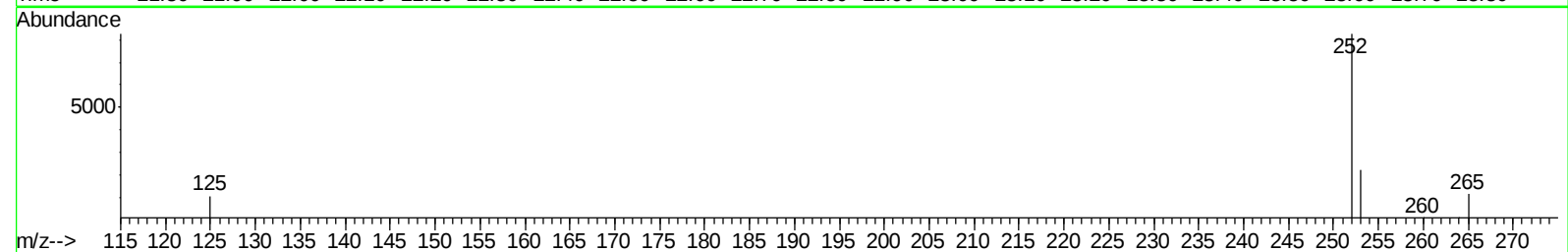
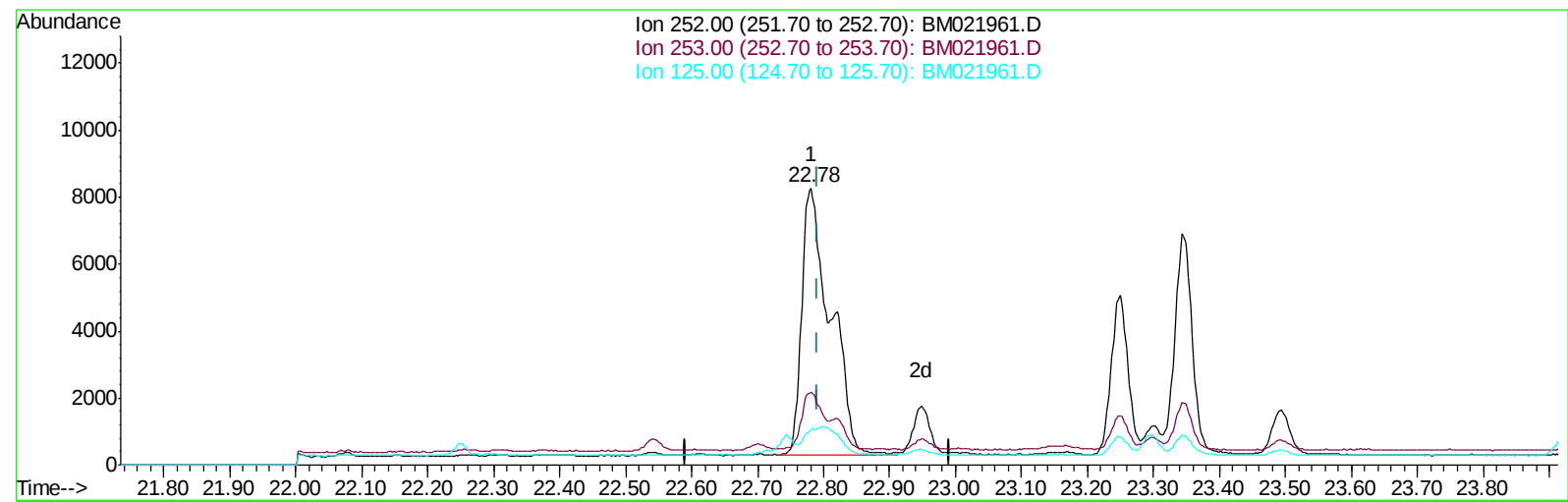
23.443min (-0.012) 0.40ng/ul m

response 5133

Ion	Exp%	Act%
264.00	100	100
260.00	27.50	26.04
265.00	117.00	56.55#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:13:39 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 09 01:29:50 2019
Response via : Initial Calibration



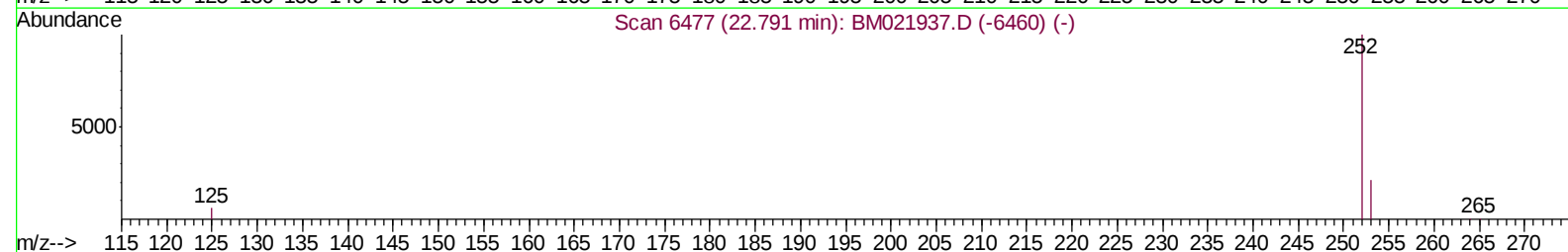
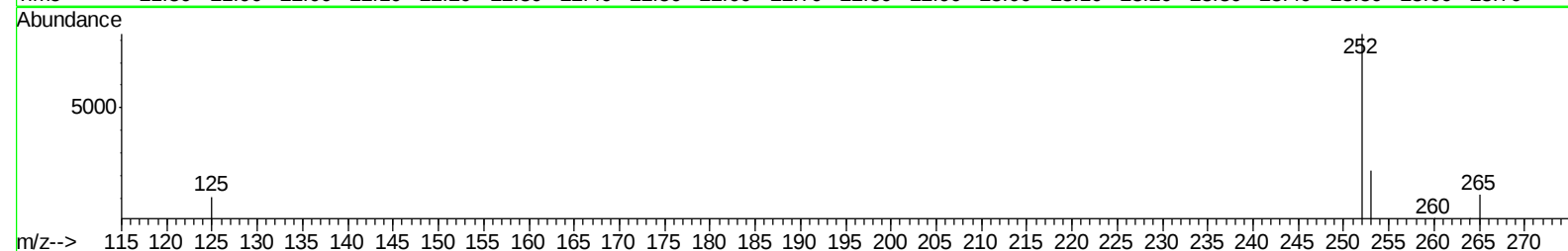
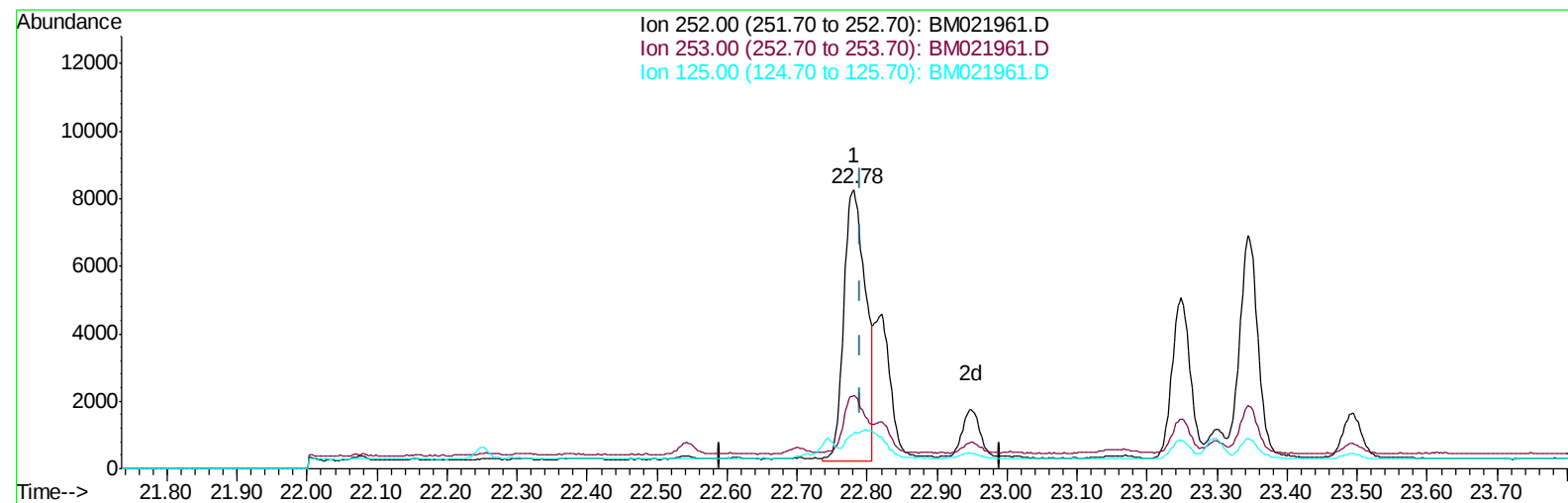
TIC: BM021961.D

(21) Benzo(b)fluoranthene
22.781min (-0.010) 1.38ng/ul
response 23895

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	26.57
125.00	15.50	12.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:13:39 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
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QLast Update : Fri Aug 09 01:29:50 2019
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TIC: BM021961.D

(21) Benzo(b)fluoranthene

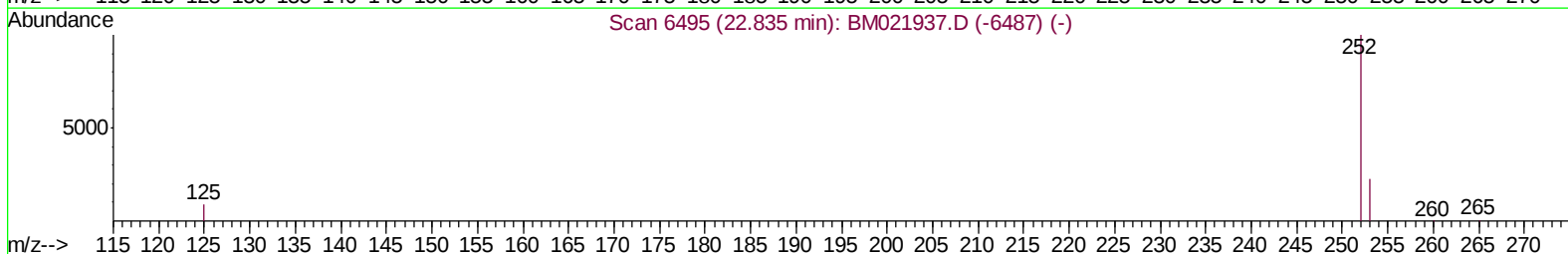
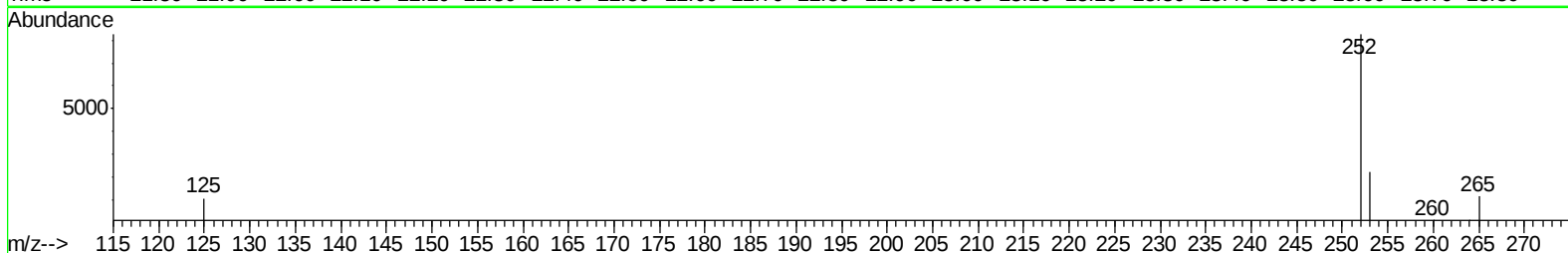
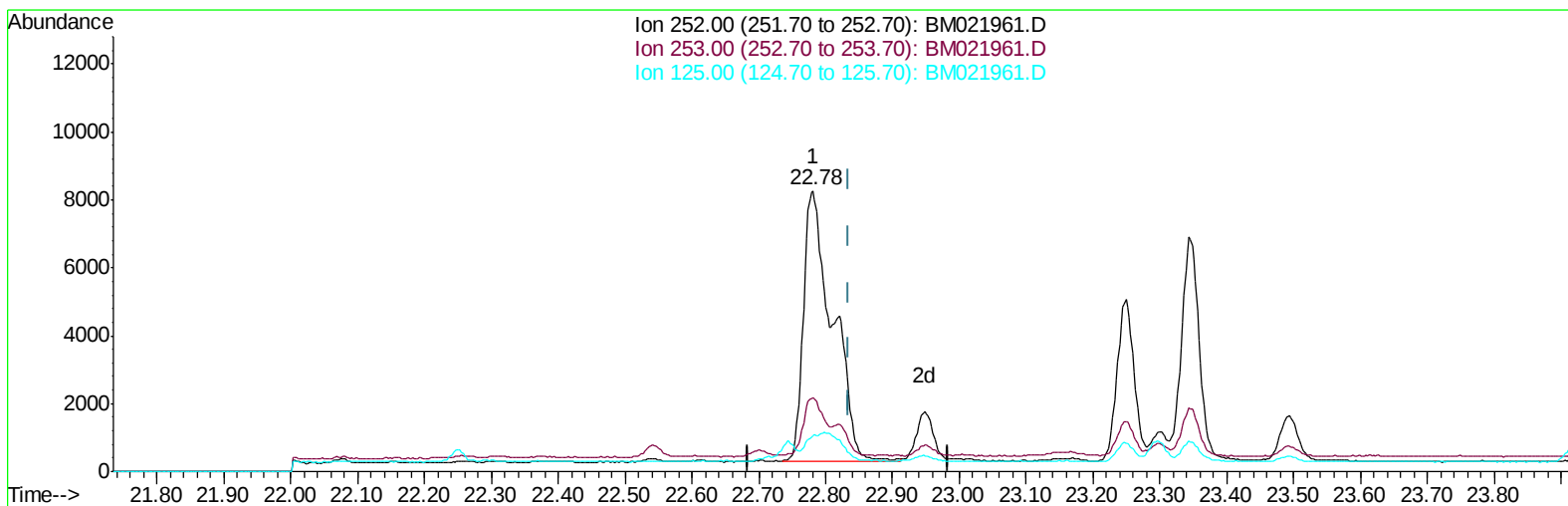
22.781min (-0.010) 0.98ng/ul m

response 16971

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	26.57
125.00	15.50	12.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:13:39 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
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QLast Update : Fri Aug 09 01:29:50 2019
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TIC: BM021961.D

(22) Benzo(k)fluoranthene

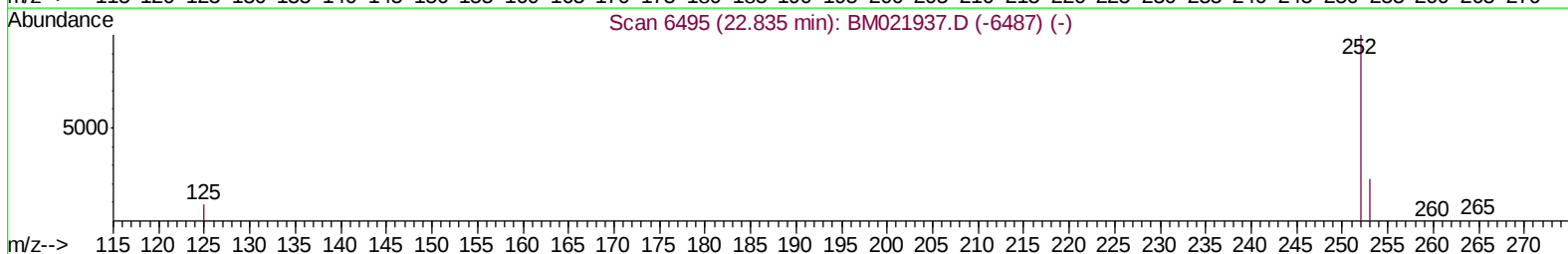
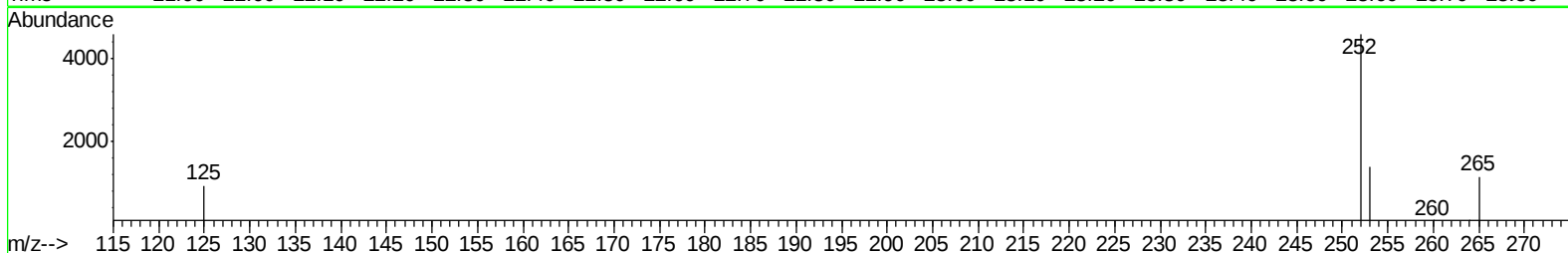
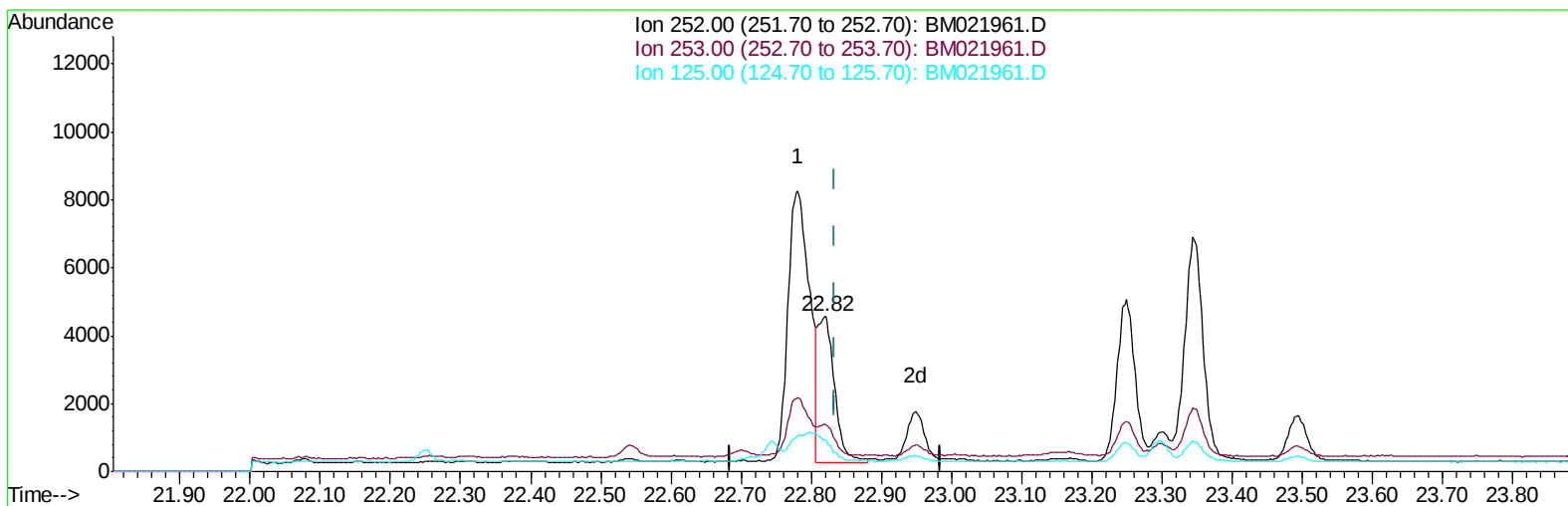
22.781min (-0.053) 1.22ng/ul

response 23895

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	26.57#
125.00	15.20	12.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
Data File : BM021961.D
Acq On : 09 Aug 2019 09:19
Operator : HP/JU
Sample : K4029-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:13:39 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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TIC: BM021961.D

(22) Benzo(k)fluoranthene

22.820min (-0.014) 0.38ng/ul m

response 7353

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	30.48
125.00	15.20	20.31#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080719\
 Data File : BM021961.D
 Acq On : 09 Aug 2019 09:19
 Operator : HP/JU
 Sample : K4029-01
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 13:15:12 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 09 01:29:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	966	0.40	ng/ul	0.00
2) Naphthalene-d8	10.39	136	4109	0.40	ng/ul	-0.02
6) Acenaphthene-d10	14.27	164	2214	0.40	ng/ul	-0.01
10) Phenanthrene-d10	17.03	188	5189m	0.40	ng/ul	-0.02
16) Chrysene-d12	21.23	240	4923m	0.40	ng/ul	0.00
20) Perylene-d12	23.44	264	5133m	0.40	ng/ul	-0.01
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.01	152	1609	0.24	ng/ul	-0.01
14) Fluoranthene-d10	19.06	212	4294m	0.25	ng/ul	-0.02
Target Compounds				Qvalue		
3) Naphthalene	10.44	128	353	0.030	ng/ul#	67
5) 2-Methylnaphthalene	12.08	142	206	0.027	ng/ul	99
7) Acenaphthylene	13.99	152	1112	0.108	ng/ul#	79
8) Acenaphthene	14.33	153	302	0.036	ng/ul	94
9) Fluorene	15.33	166	428	0.046	ng/ul#	95
12) Phenanthrene	17.07	178	8625	0.571	ng/ul	98
13) Anthracene	17.16	178	2404m	0.187	ng/ul	
15) Fluoranthene	19.09	202	21423m	1.059	ng/ul	
17) Pyrene	19.46	202	21081	1.042	ng/ul	98
18) Benzo(a)anthracene	21.21	228	12774m	0.725	ng/ul	
19) Chrysene	21.27	228	13411	0.592	ng/ul	99
21) Benzo(b)fluoranthene	22.78	252	16971m	0.980	ng/ul	
22) Benzo(k)fluoranthene	22.82	252	7353m	0.375	ng/ul	
23) Benzo(a)pyrene	23.34	252	11997	0.682	ng/ul#	82
24) Indeno(1,2,3-cd)pyrene	25.66	276	8202	0.390	ng/ul#	100
25) Dibenzo(a,h)anthracene	25.66	278	2200	0.129	ng/ul#	70
26) Benzo(g,h,i)perylene	26.34	276	6854	0.362	ng/ul	99

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

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