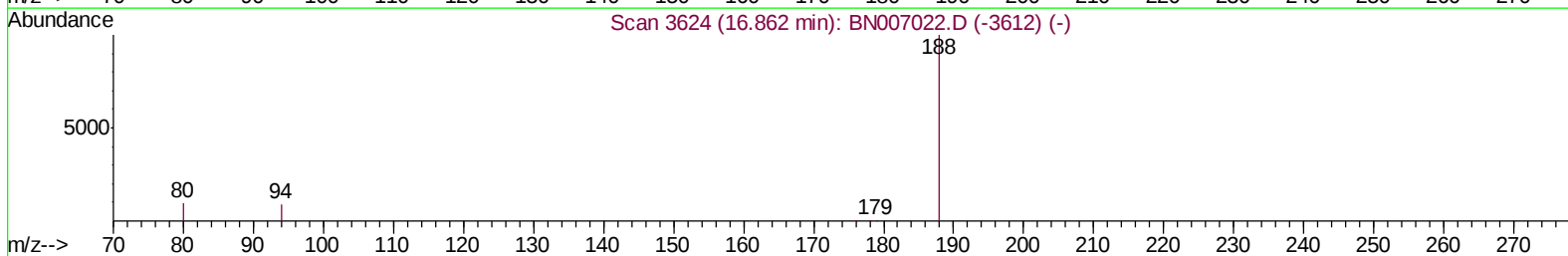
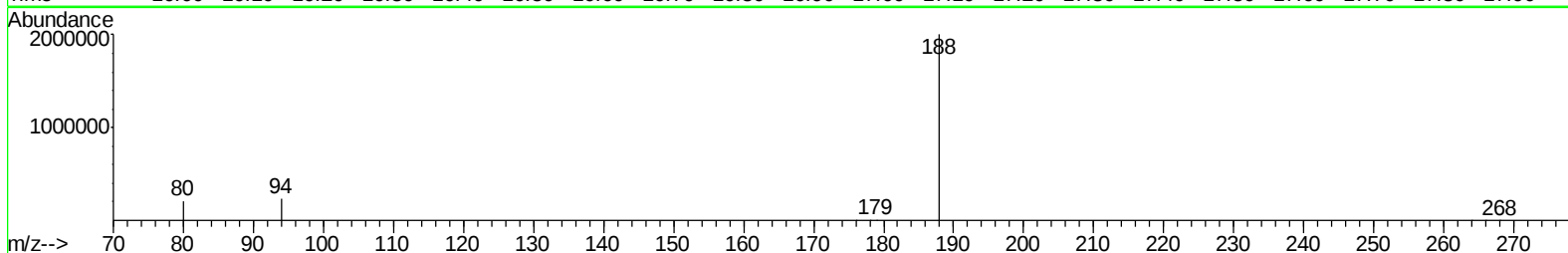
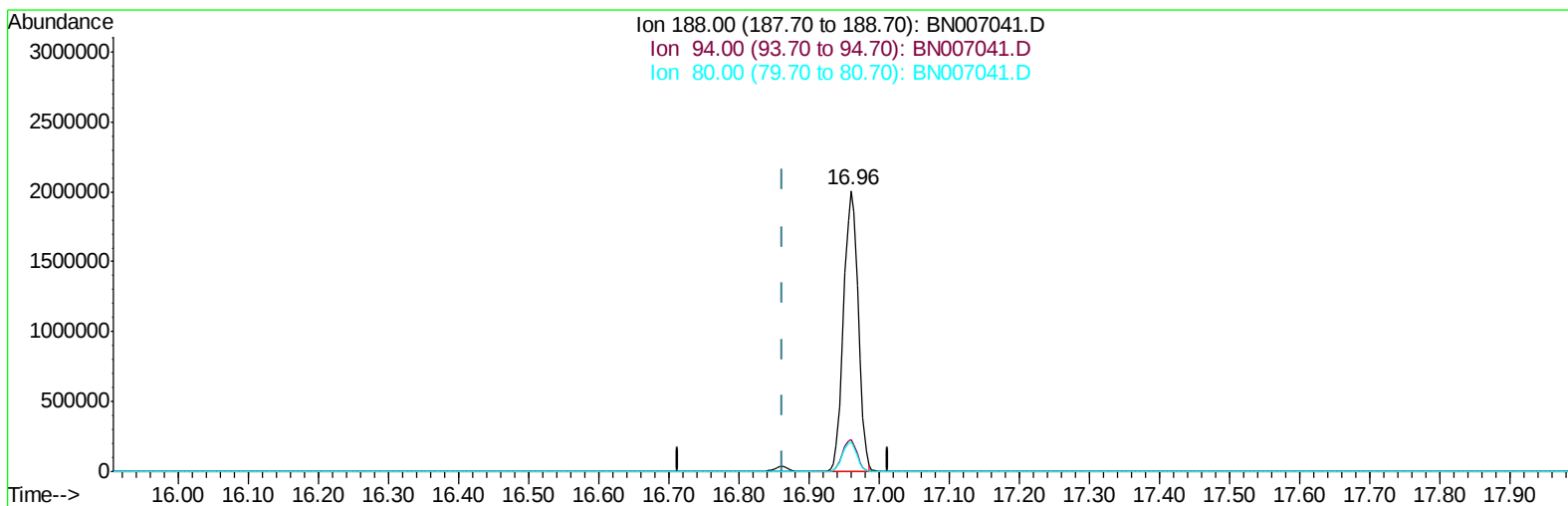


Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:21:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(10) Phenanthrene-d10 (I)

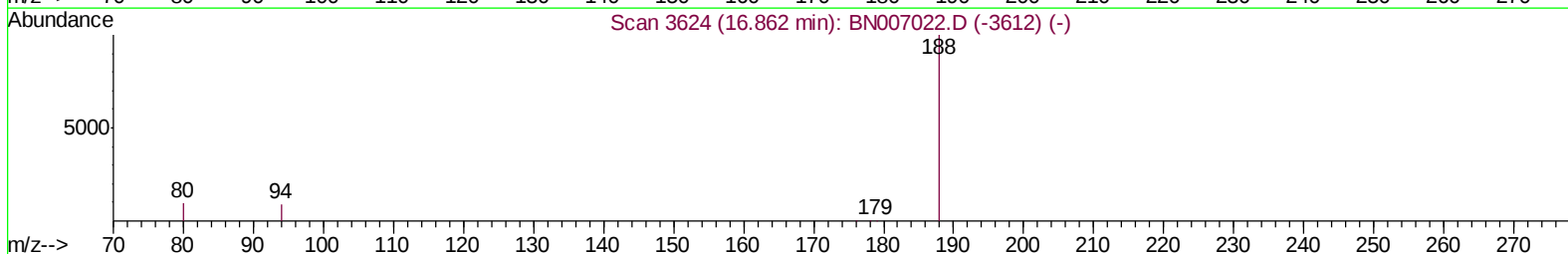
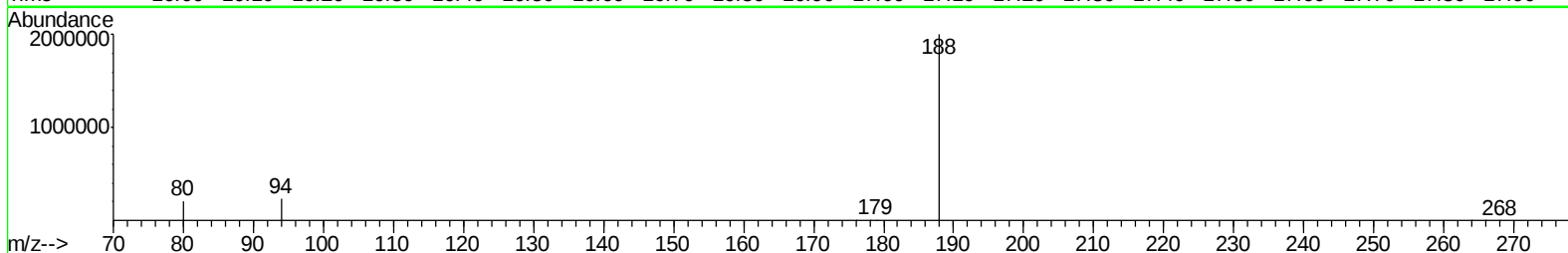
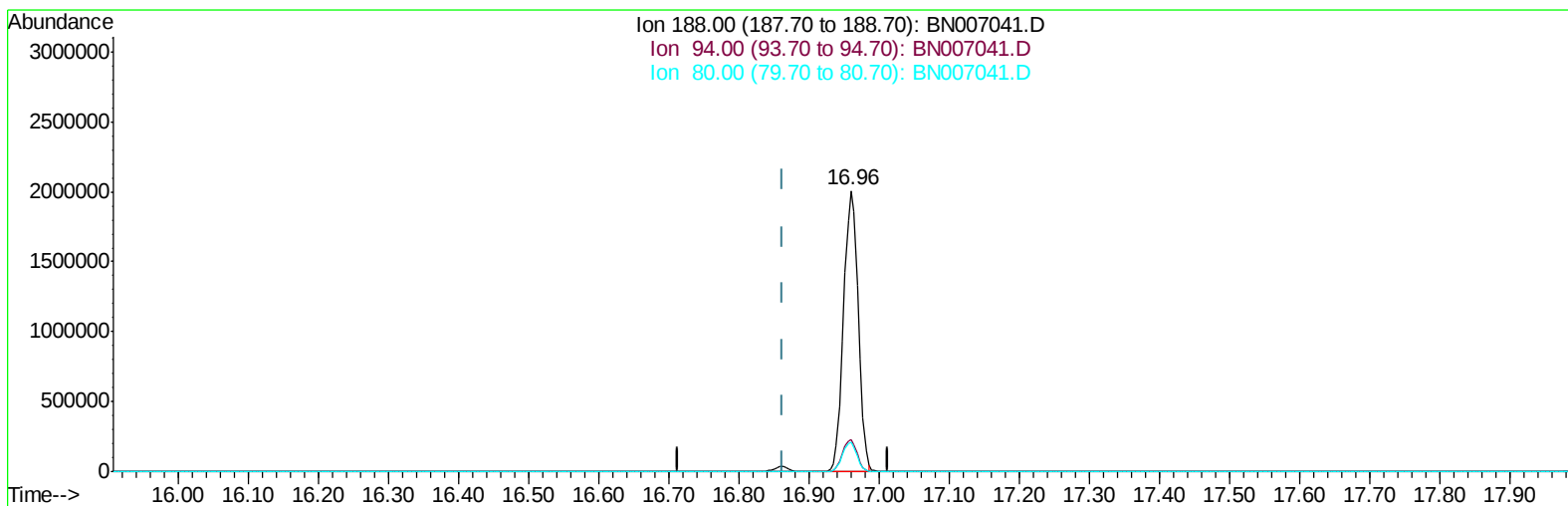
16.959min (+0.097) 0.40ng/ul

response 2903261

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	11.46
80.00	12.40	10.44
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:21:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(10) Phenanthrene-d10 (I)

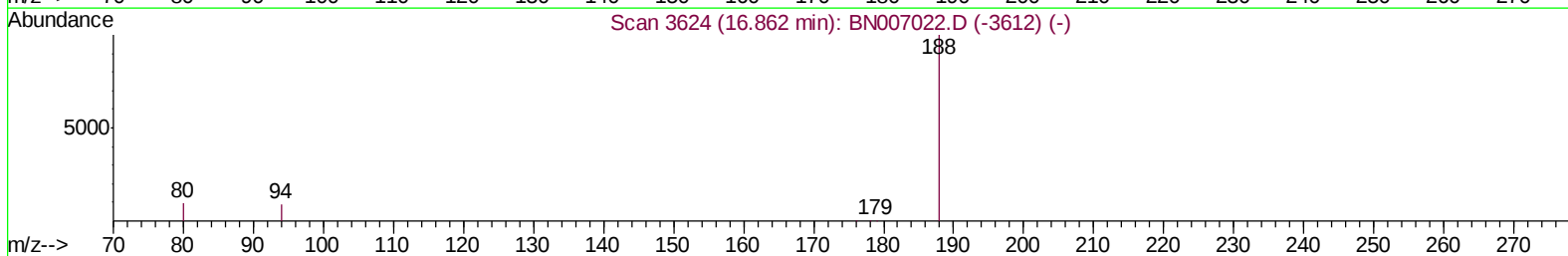
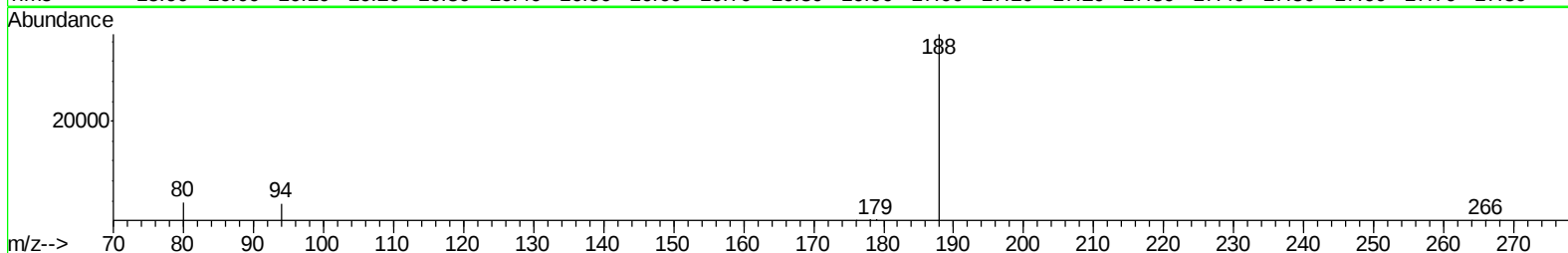
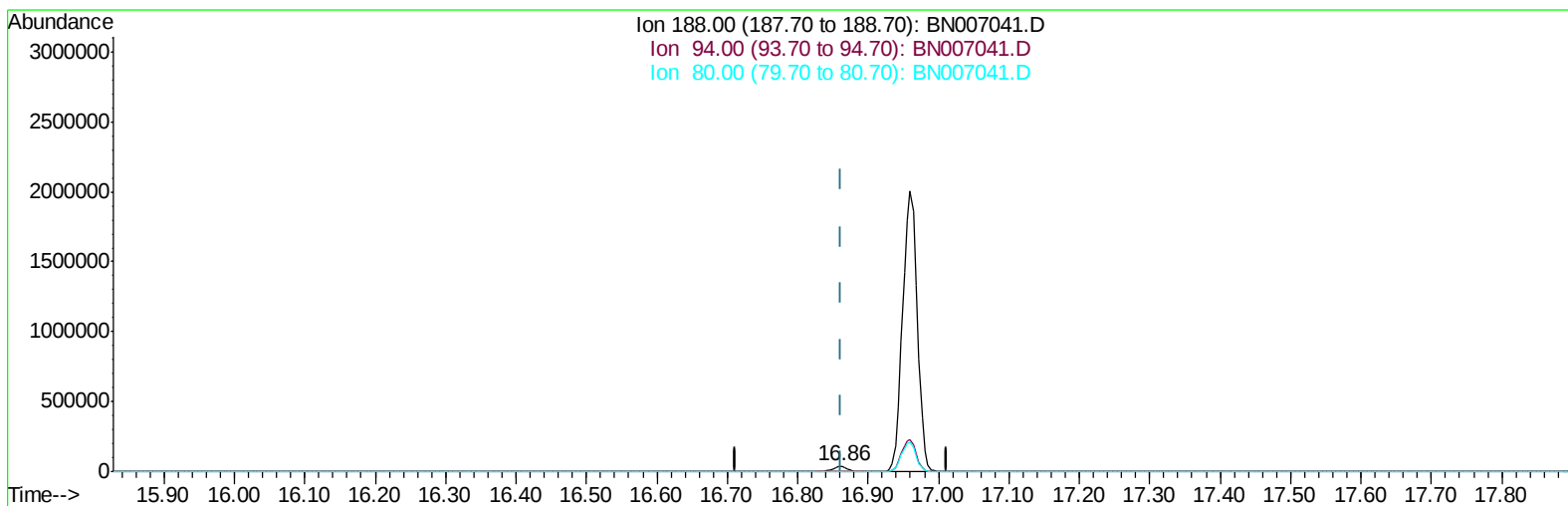
16.959min (+0.097) 0.40ng/ul

response 2903261

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	11.46
80.00	12.40	10.44
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:21:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(10) Phenanthrene-d10 (I)

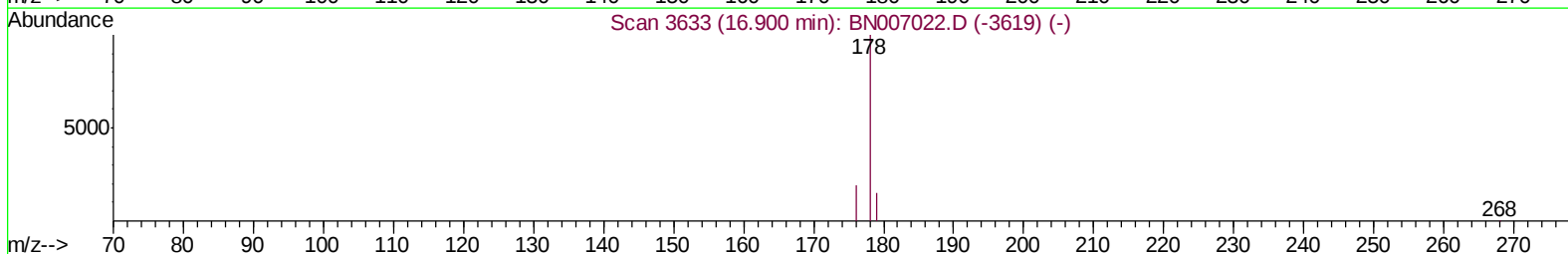
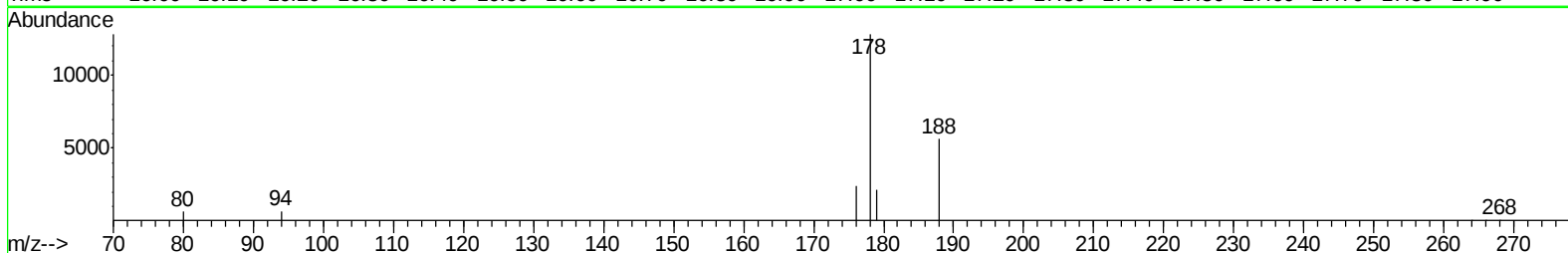
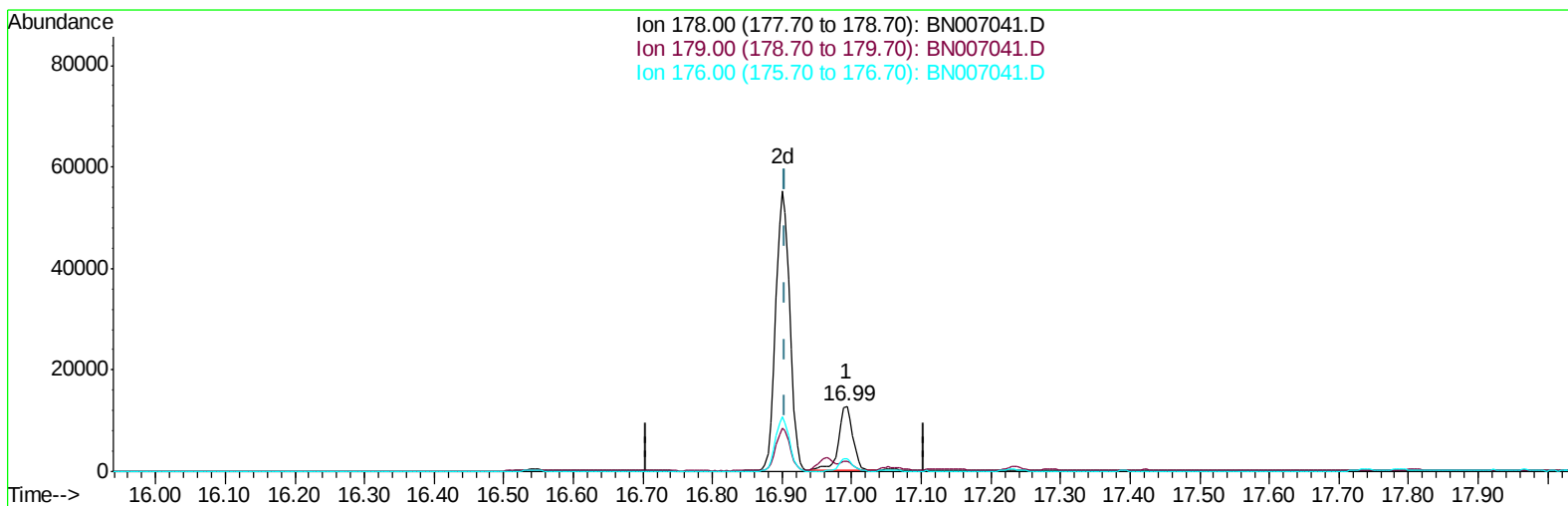
16.862min (-0.000) 0.40ng/ul m

response 53791

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	9.30
80.00	12.40	9.94
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:25:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(12) Phenanthrene

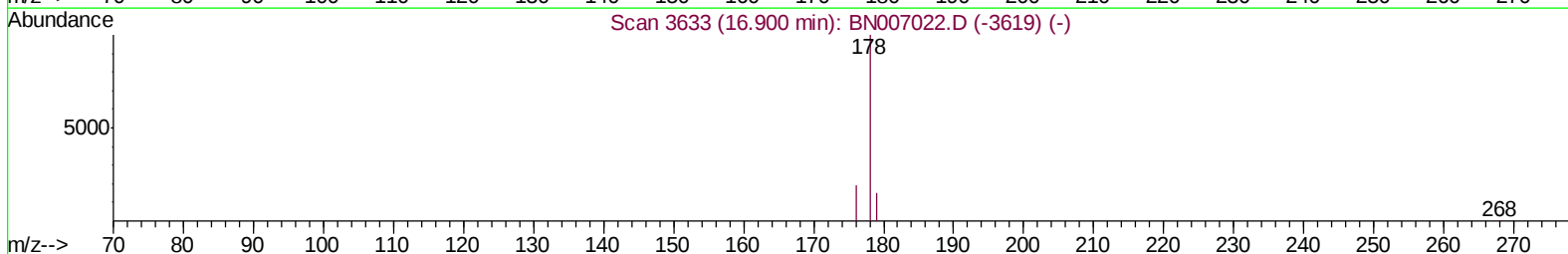
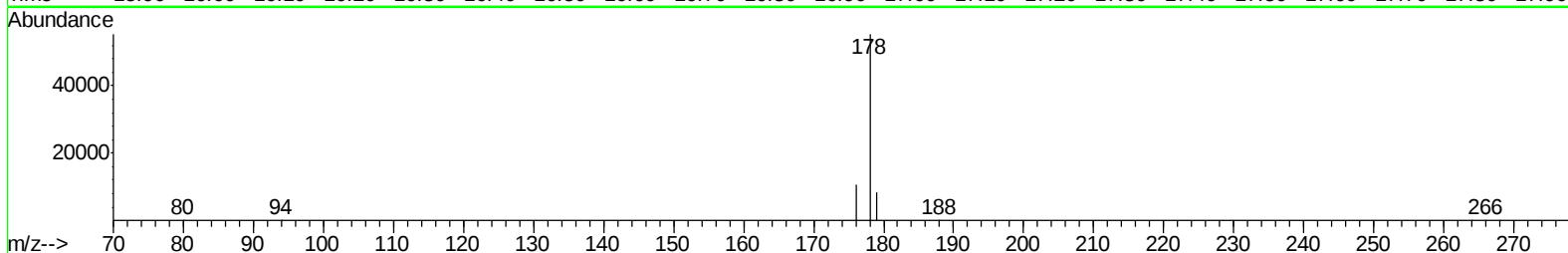
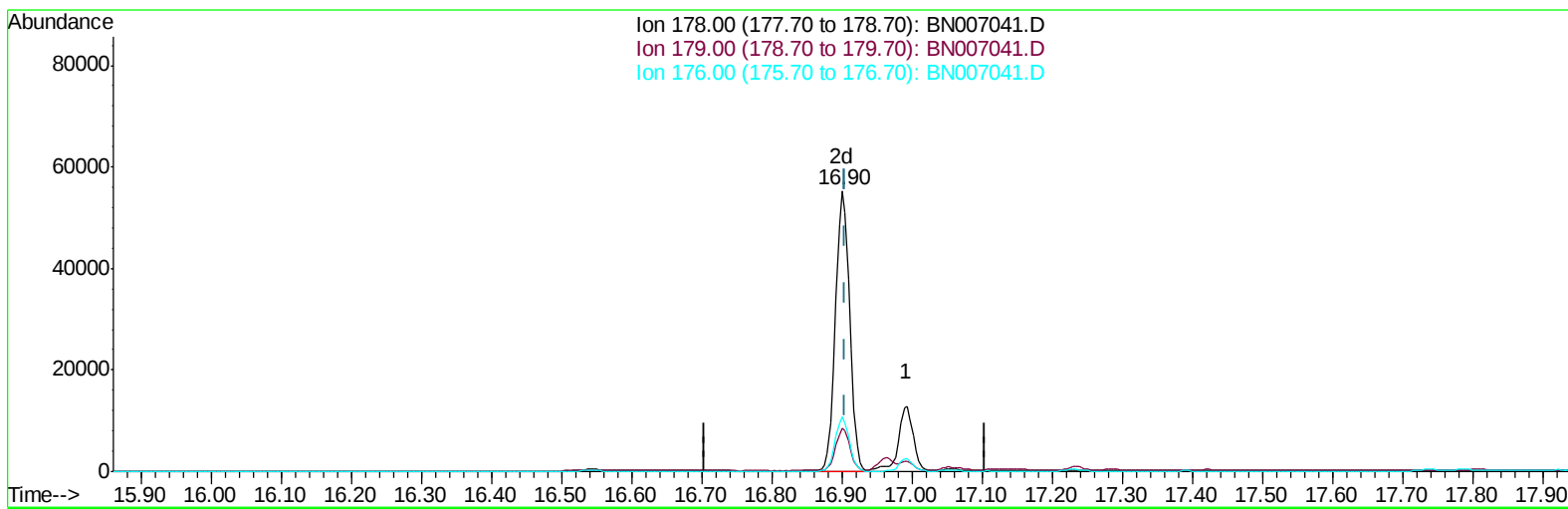
16.993min (+0.089) 0.11ng/ul

response 18065

Ion	Exp%	Act%
178.00	100	100
179.00	15.60	16.54
176.00	19.50	18.94
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:25:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(12) Phenanthrene

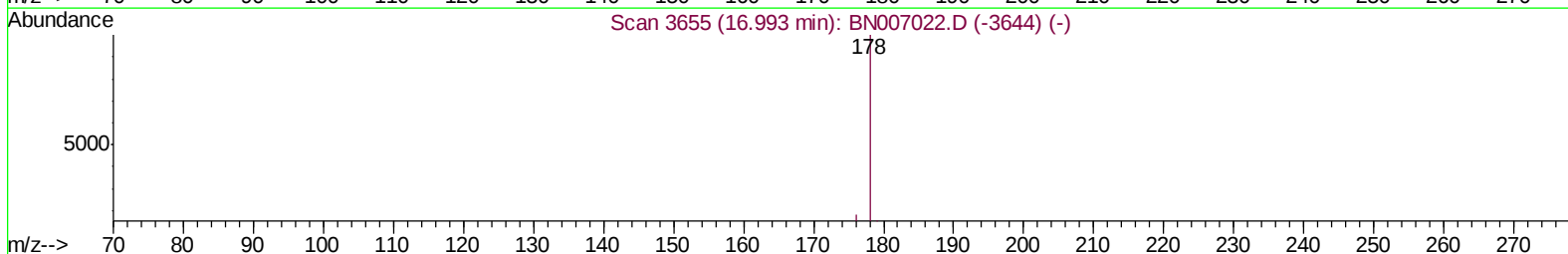
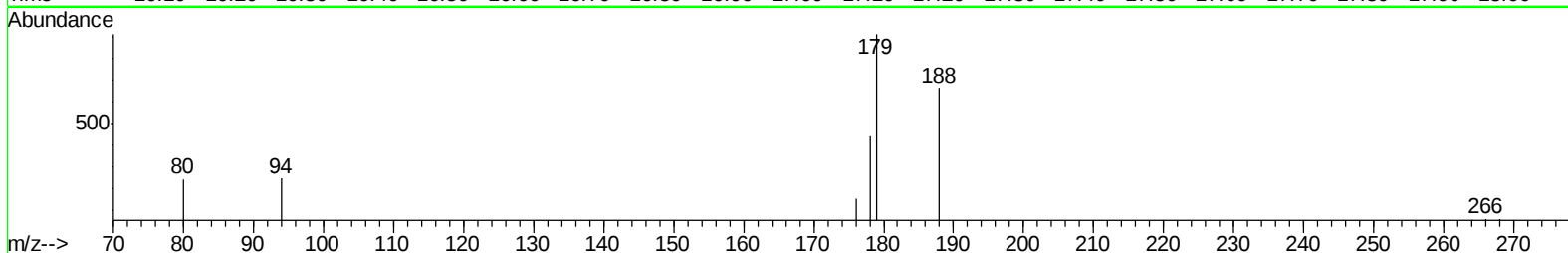
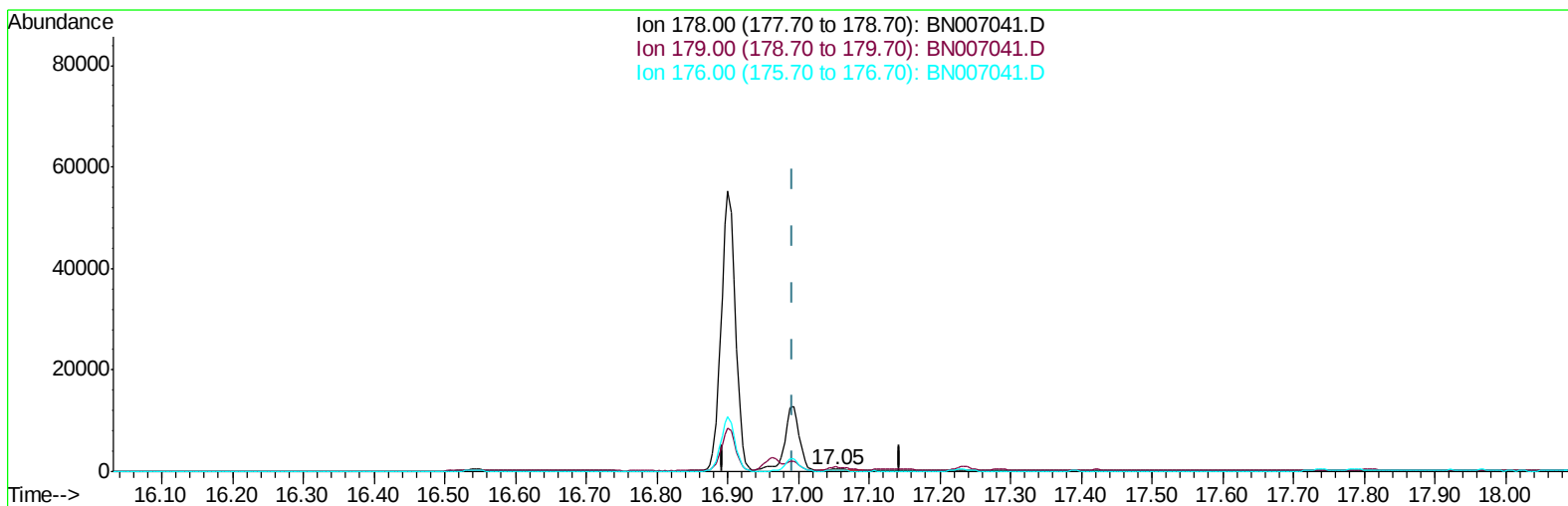
16.900min (-0.004) 0.45ng/ul m

response 77745

Ion	Exp%	Act%
178.00	100	100
179.00	15.60	15.43
176.00	19.50	19.43
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:25:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(13) Anthracene

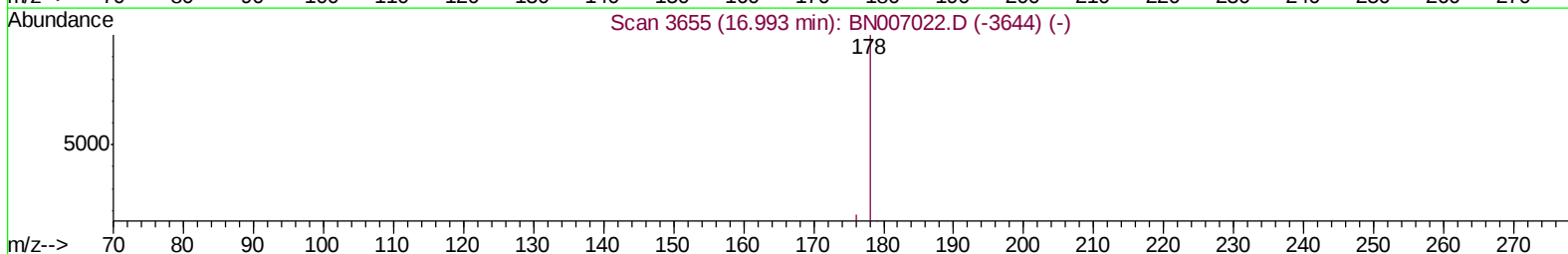
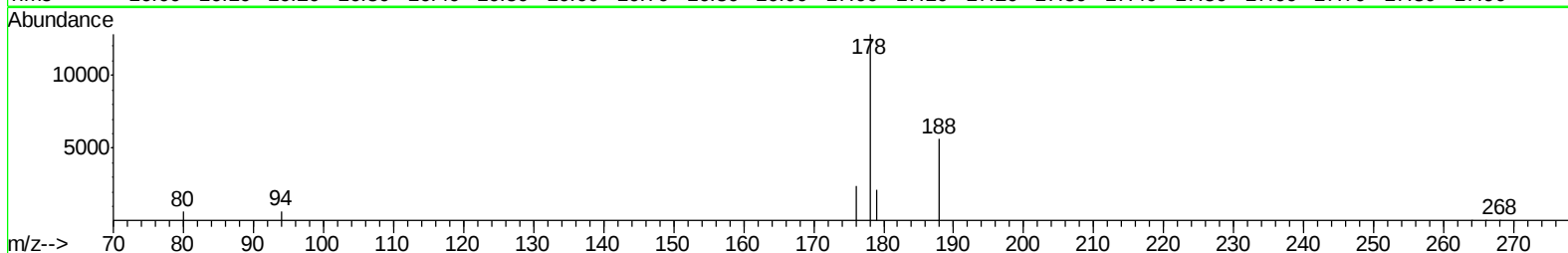
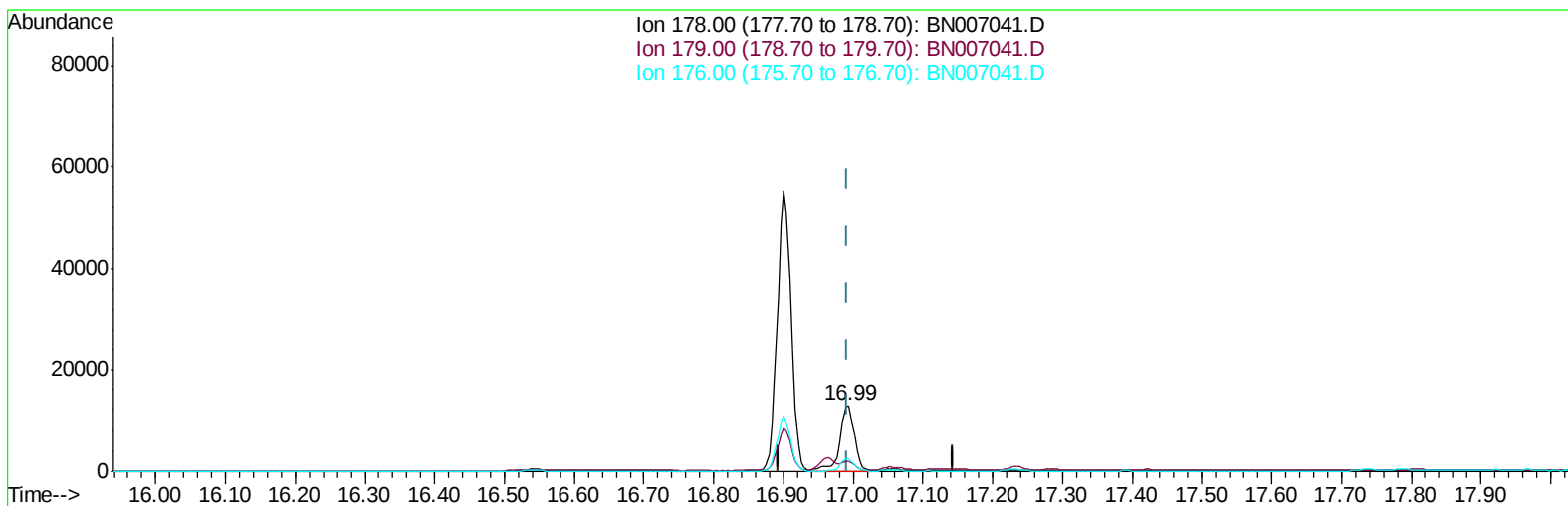
17.052min (+0.059) 0.00ng/ul

response 504

Ion	Exp%	Act%
178.00	100	100
179.00	15.70	205.63#
176.00	19.20	33.78#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:25:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(13) Anthracene

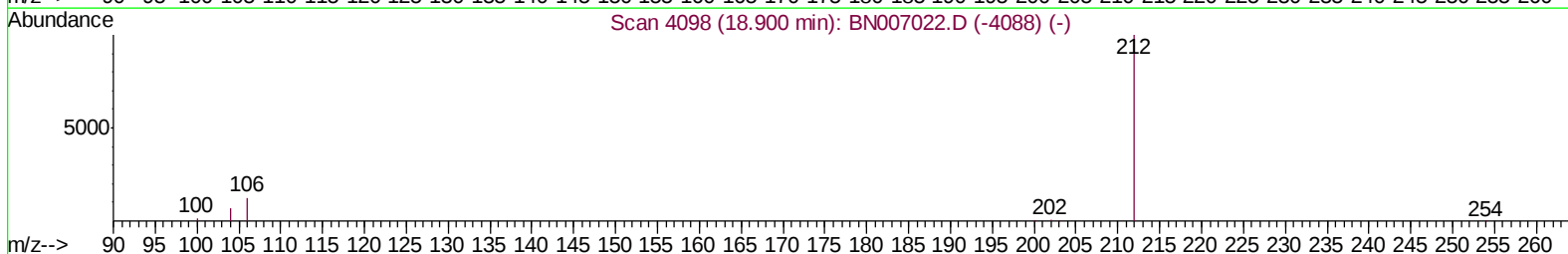
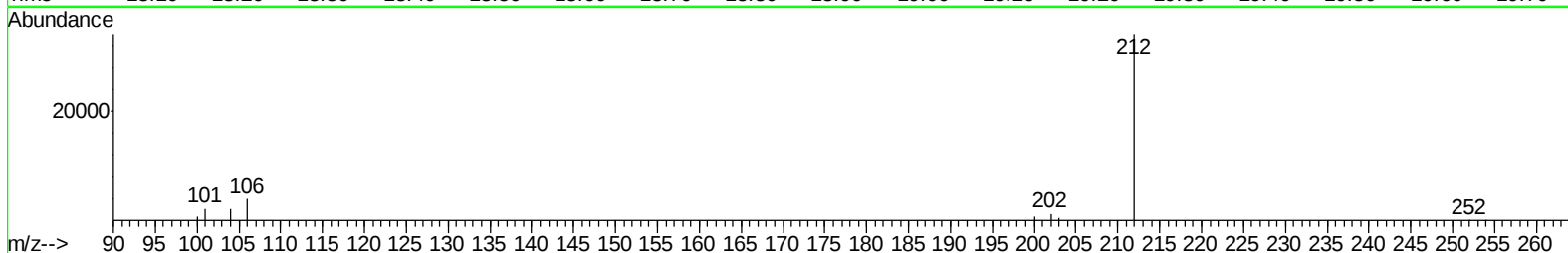
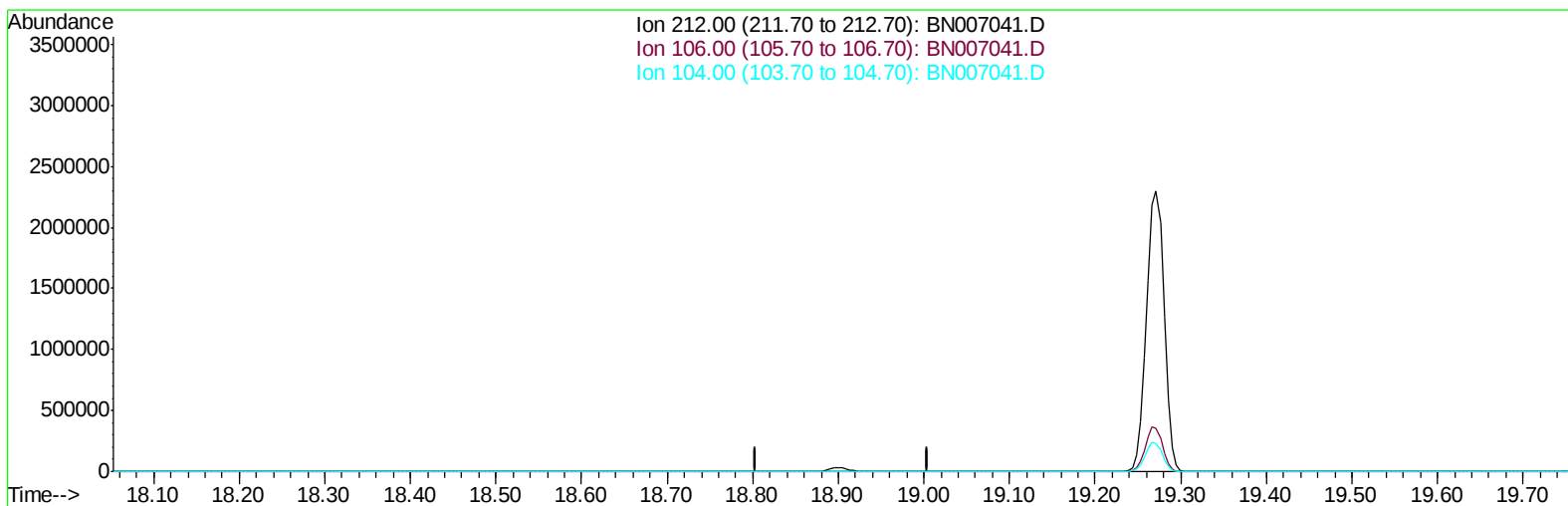
16.993min (-0.000) 0.11ng/ul m

response 19359

Ion	Exp%	Act%
178.00	100	100
179.00	15.70	16.54
176.00	19.20	18.94
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:25:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(14) Fluoranthene-d10 (SURR)

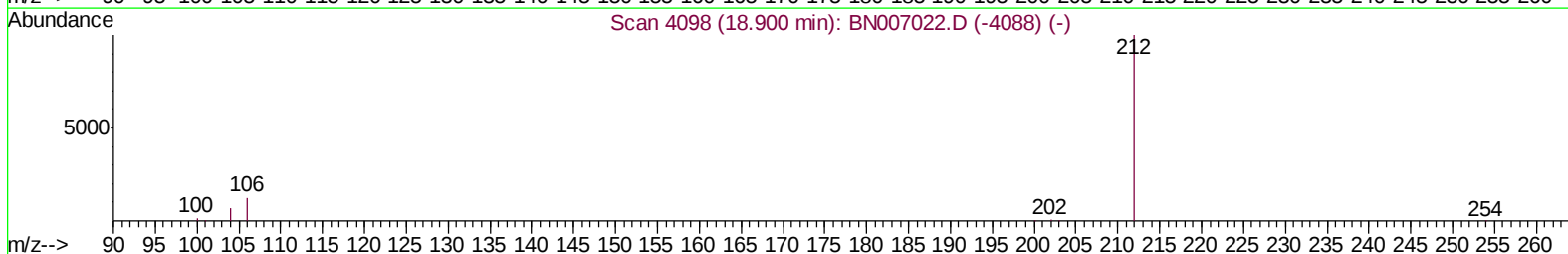
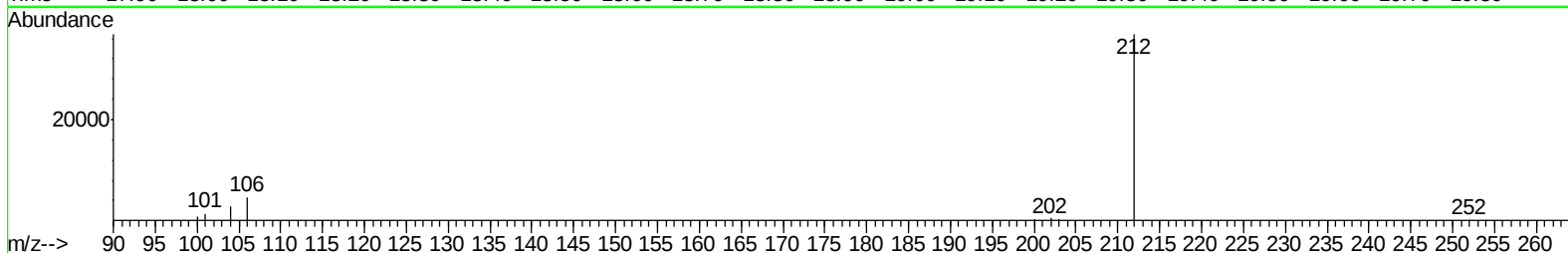
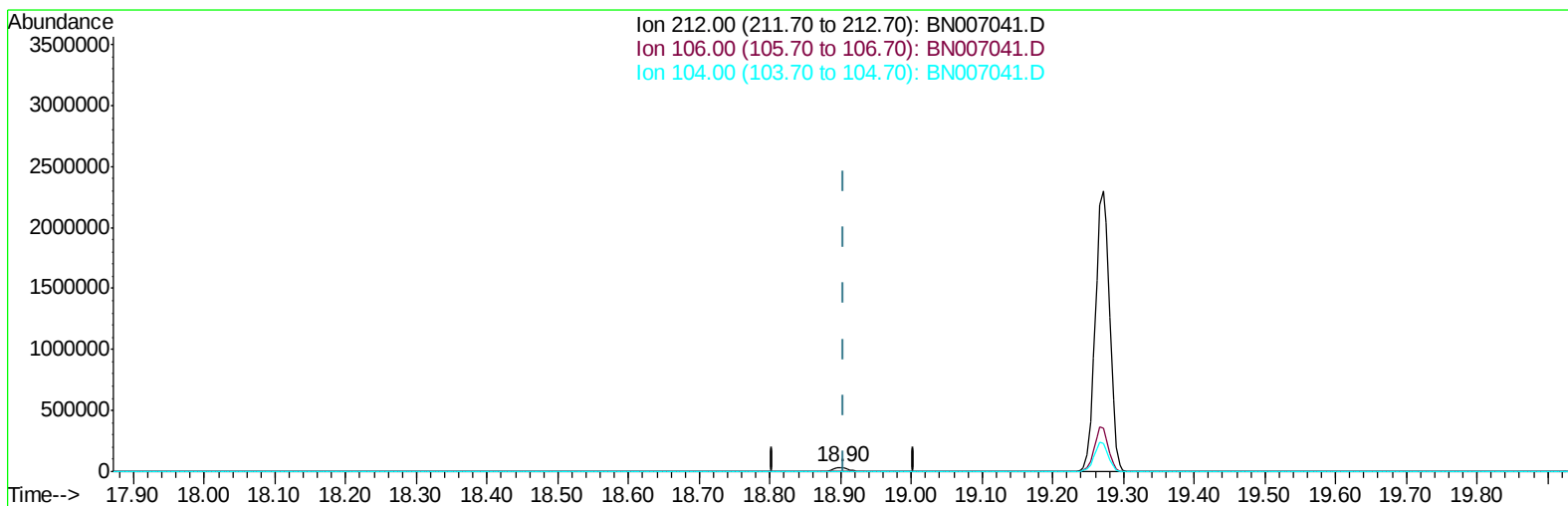
18.904min (-18.904) 0.00ng/ul

response 0

Ion	Exp%	Act%
212.00	100	0.00
106.00	12.80	0.00#
104.00	7.10	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:25:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(14) Fluoranthene-d10 (SURR)

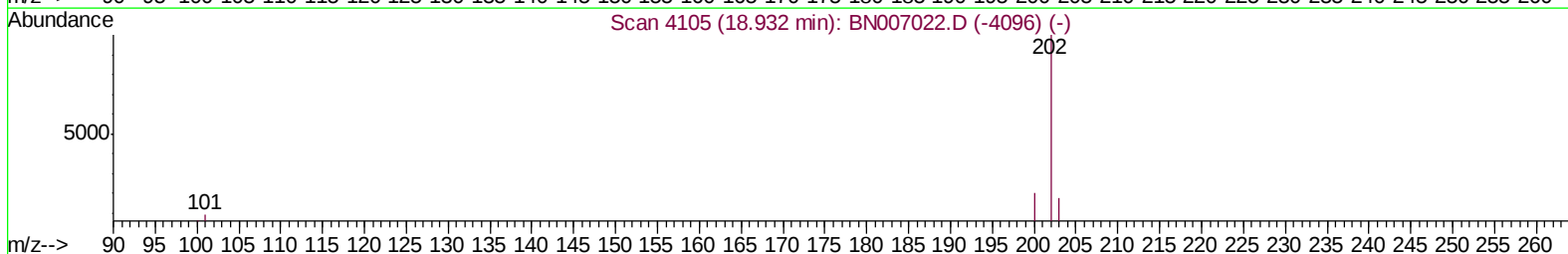
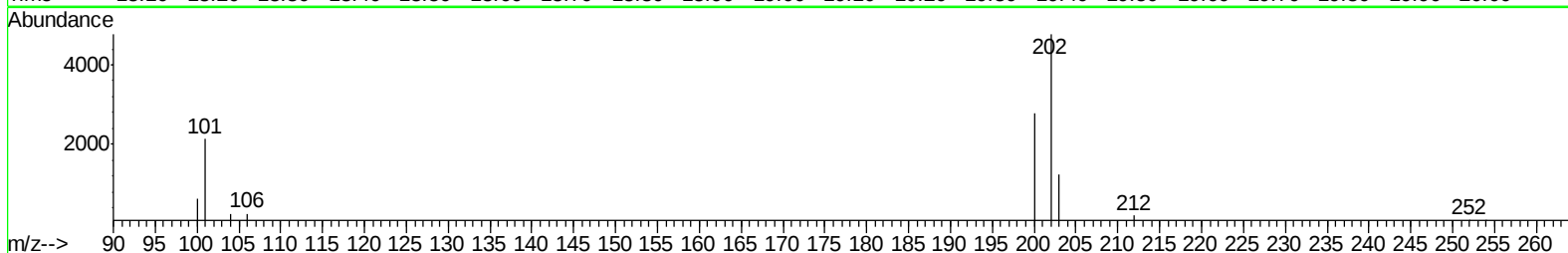
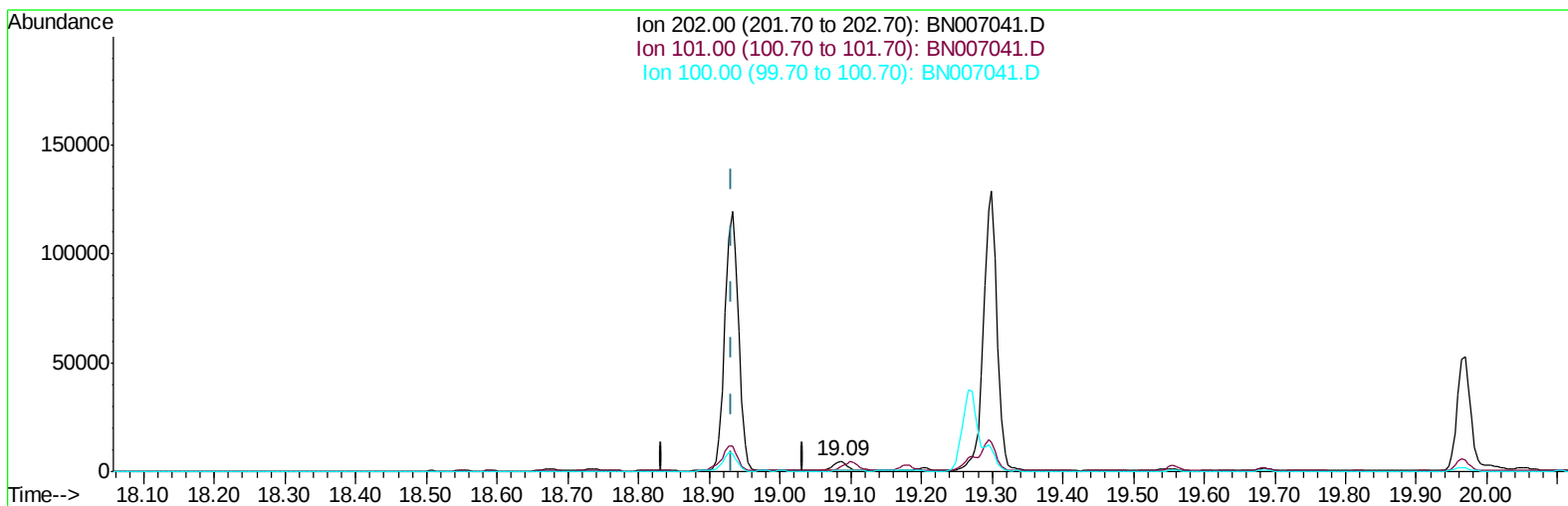
18.900min (-0.005) 0.28ng/ul m

response 48659

Ion	Exp%	Act%
212.00	100	100
106.00	12.80	0.00#
104.00	7.10	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:25:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(15) Fluoranthene (C)

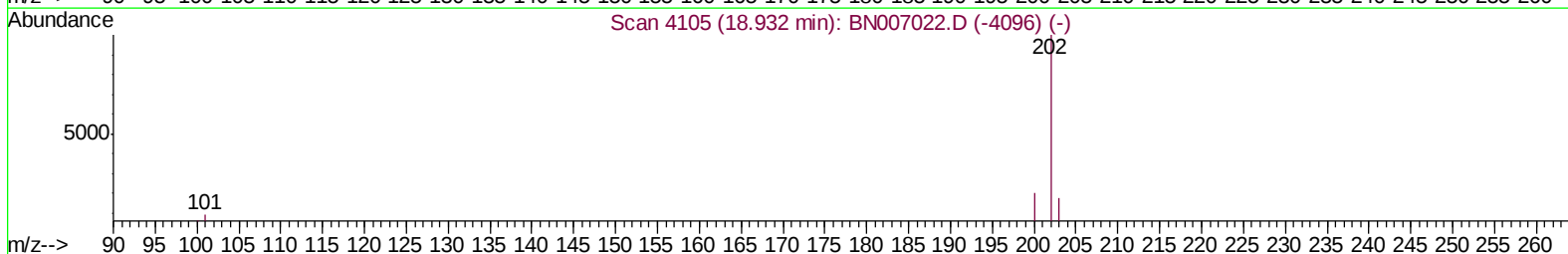
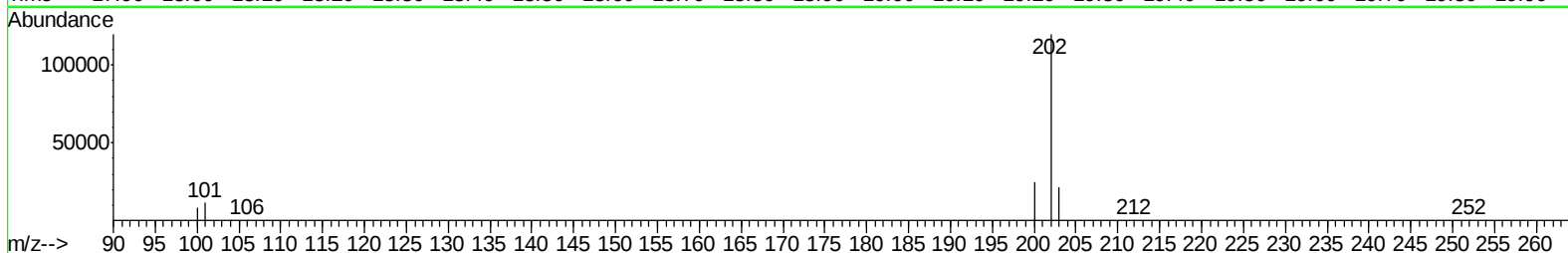
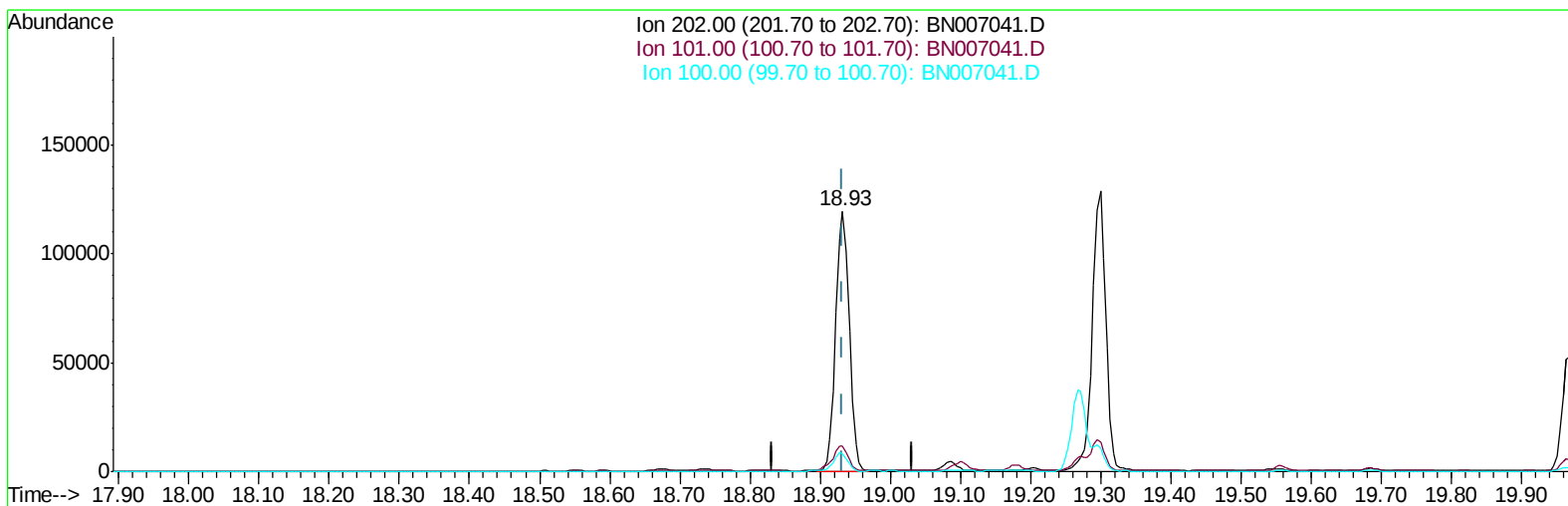
19.086min (+0.153) 0.03ng/ul

response 5724

Ion	Exp%	Act%
202.00	100	100
101.00	10.00	44.80#
100.00	7.70	13.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:26:31 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(15) Fluoranthene (C)

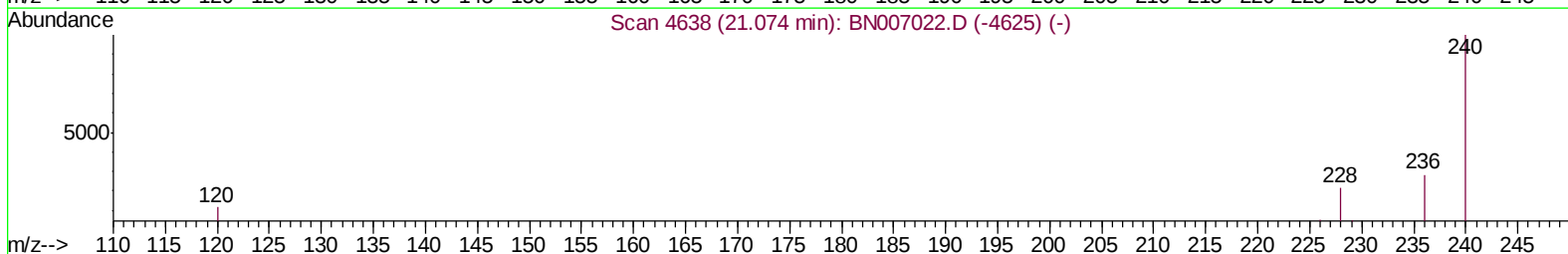
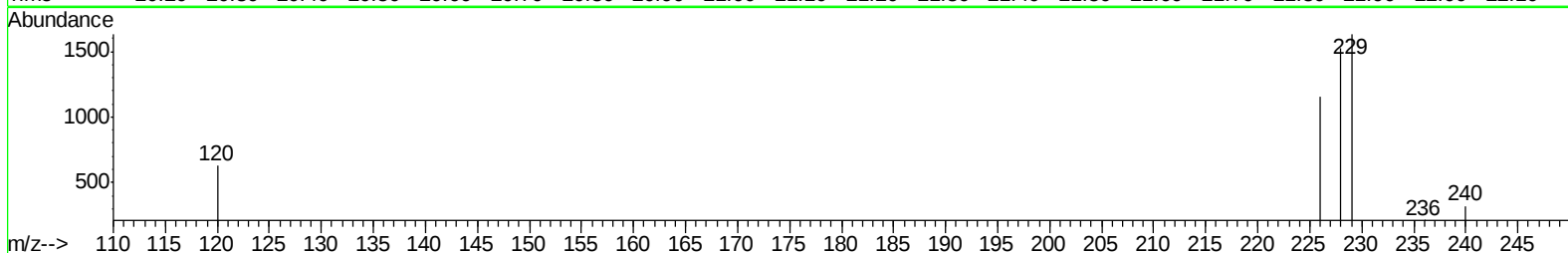
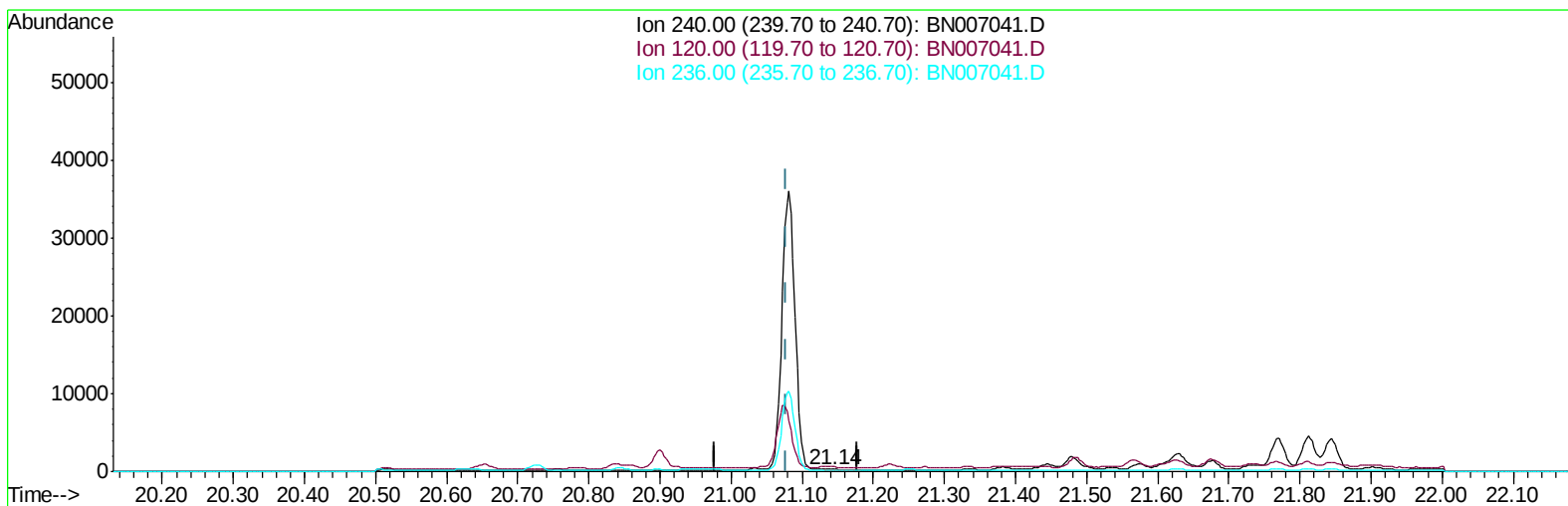
18.932min (-0.000) 0.75ng/ul m

response 160532

Ion	Exp%	Act%
202.00	100	100
101.00	10.00	9.56
100.00	7.70	6.84
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:26:31 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(16) Chrysene-d12 (I)

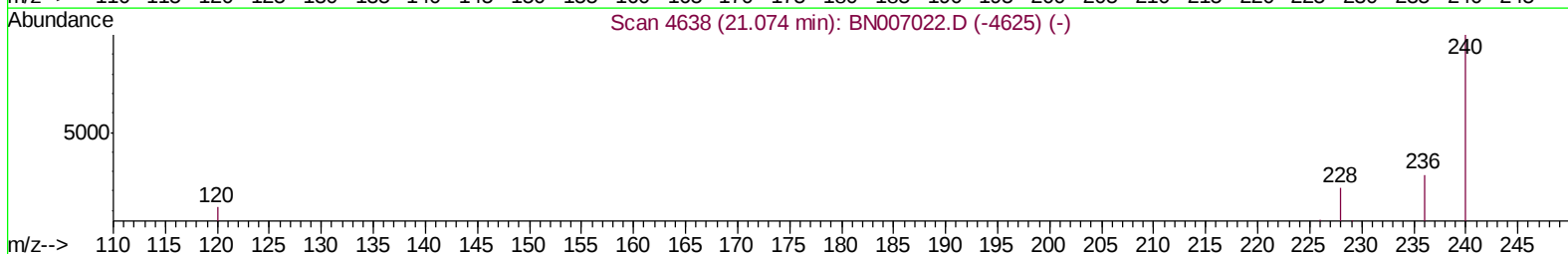
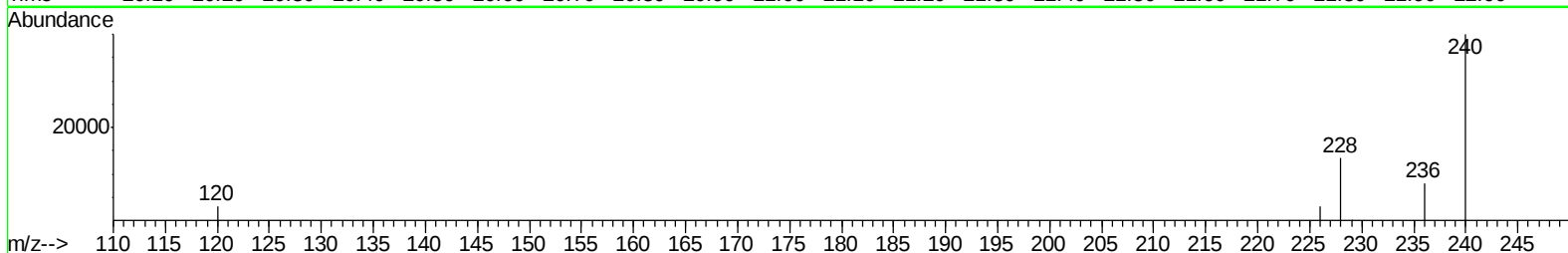
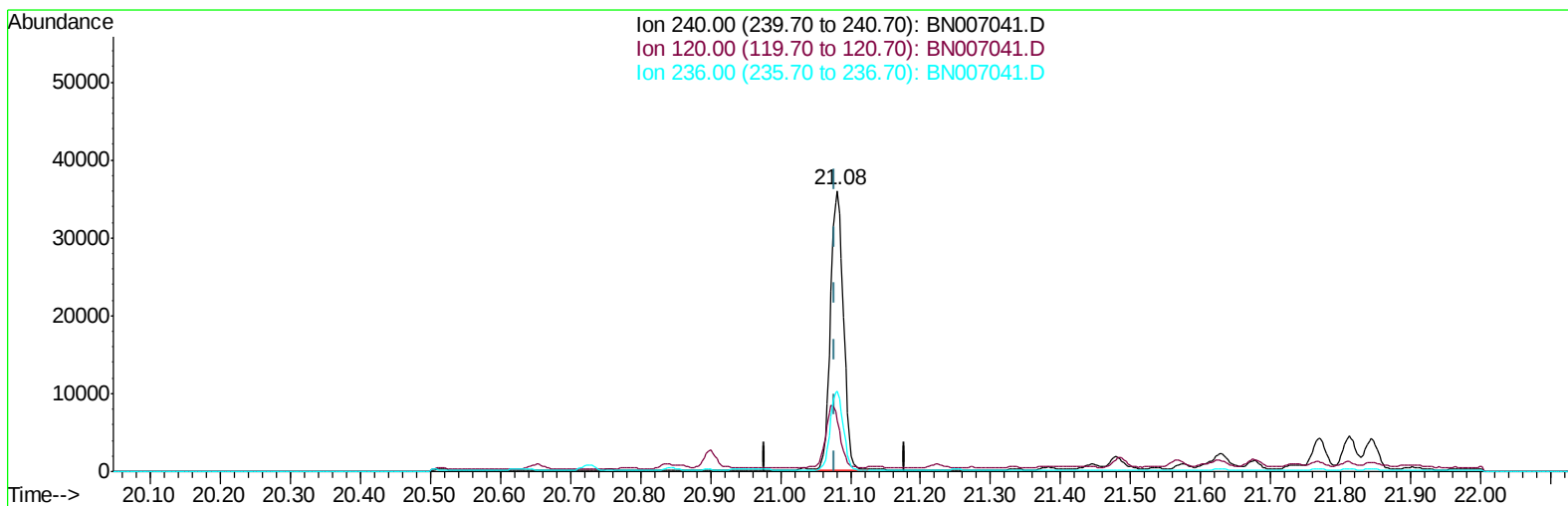
21.143min (+0.064) 0.40ng/ul

response 204

Ion	Exp%	Act%
240.00	100	100
120.00	13.10	195.31#
236.00	29.00	65.94#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:26:31 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(16) Chrysene-d12 (I)

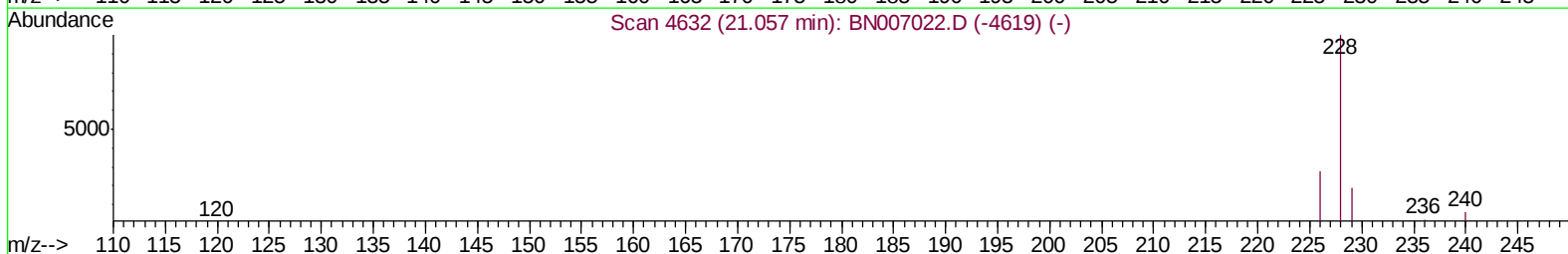
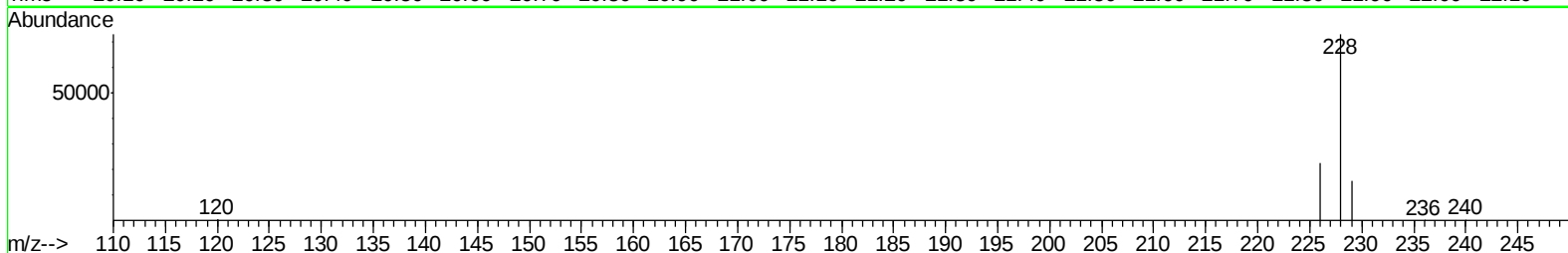
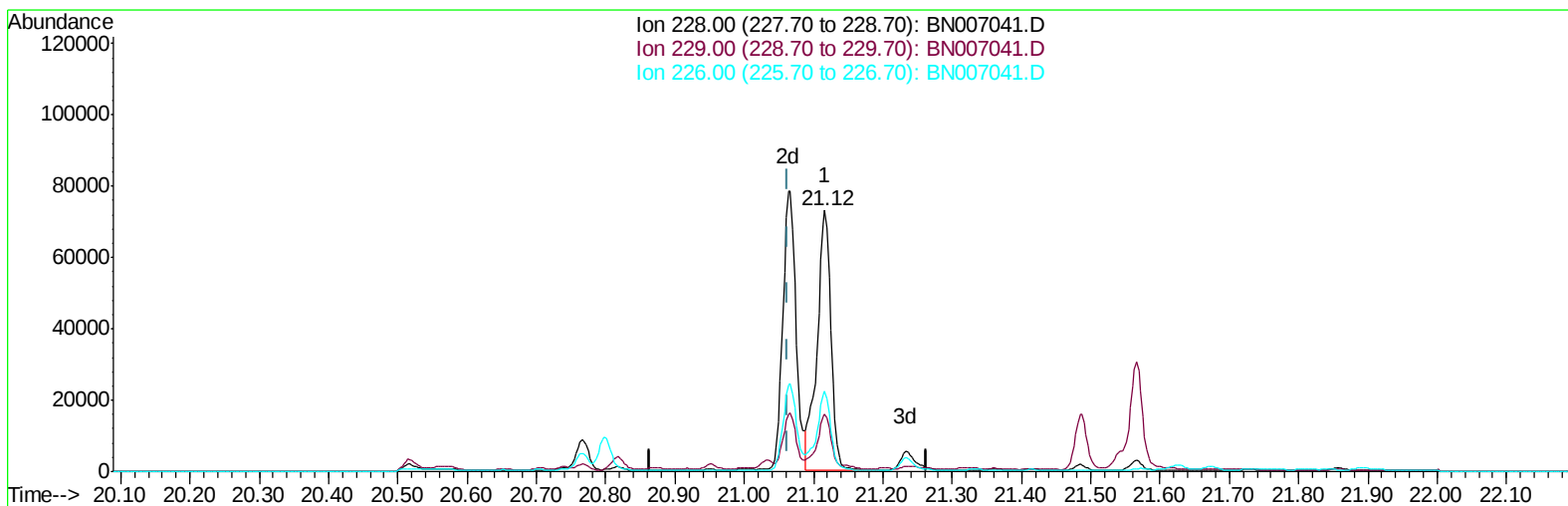
21.081min (+0.003) 0.40ng/ul m

response 46021

Ion	Exp%	Act%
240.00	100	100
120.00	13.10	18.12#
236.00	29.00	28.87
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:27:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



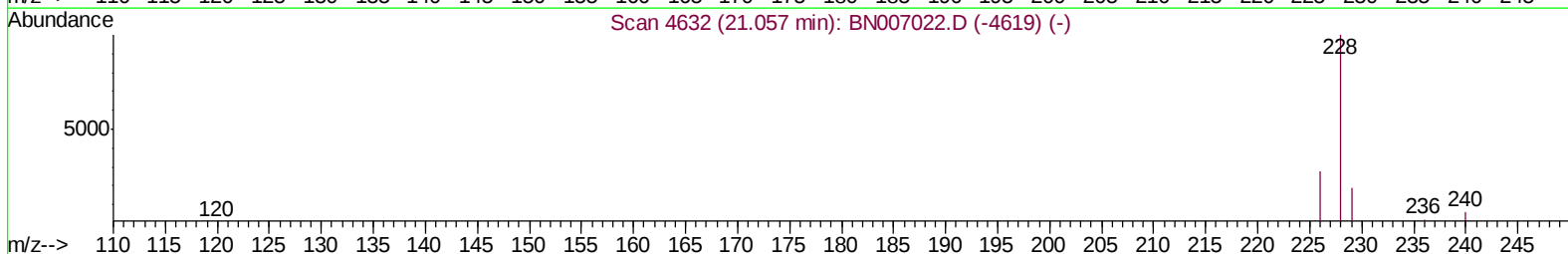
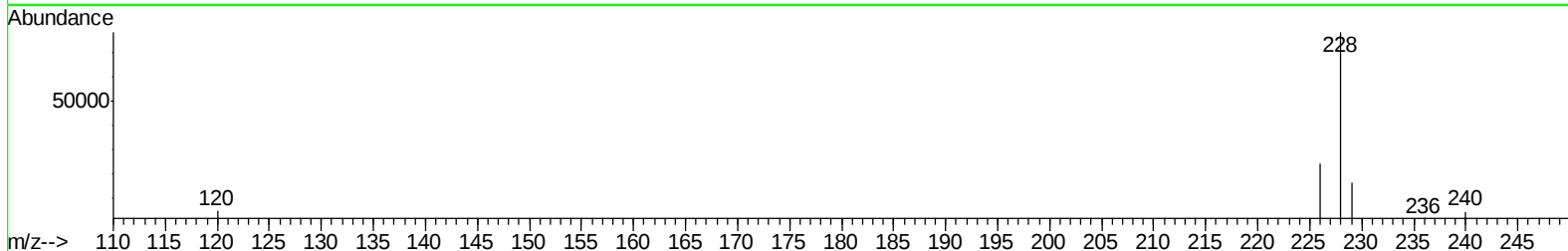
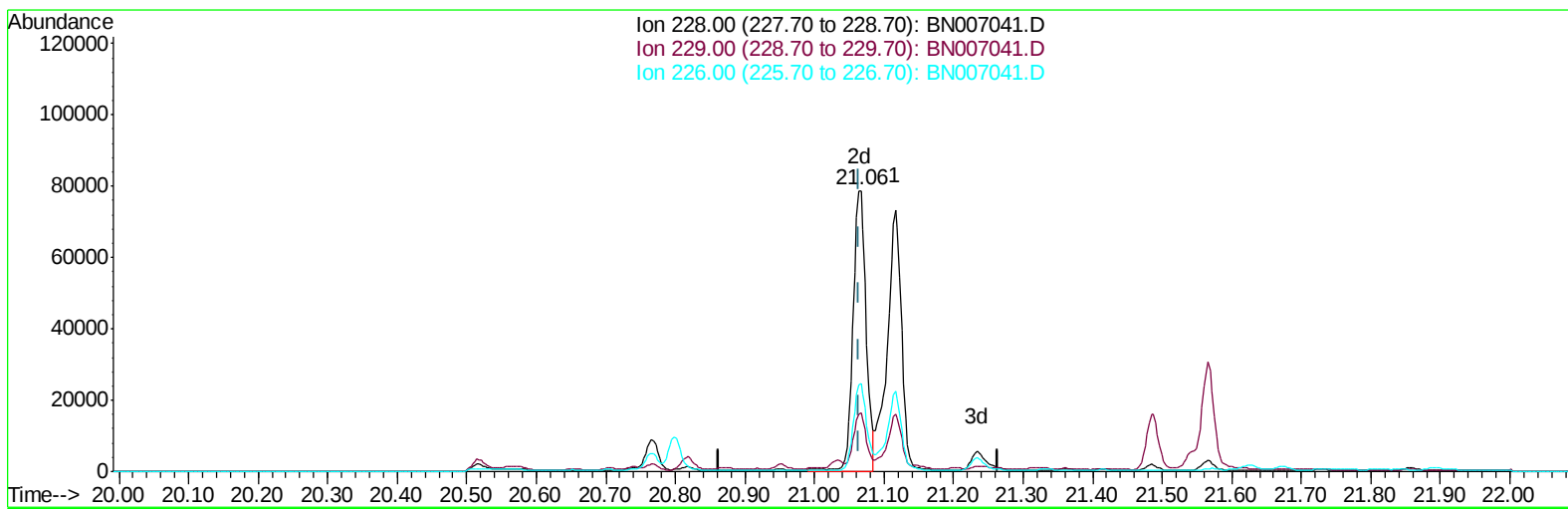
TIC: BN007041.D

(18) Benzo(a)anthracene
21.116min (+0.052) 0.50ng/ul
response 102004

Ion	Exp%	Act%
228.00	100	100
229.00	19.90	21.81
226.00	27.80	30.80
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:27:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(18) Benzo(a)anthracene

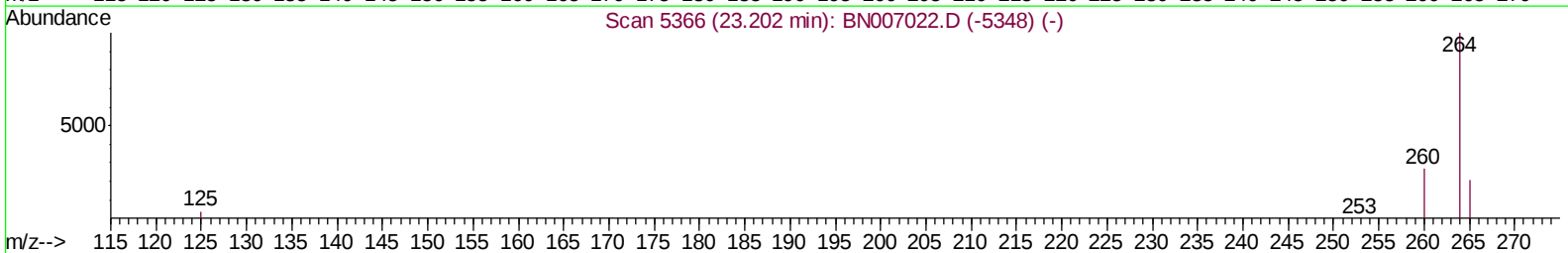
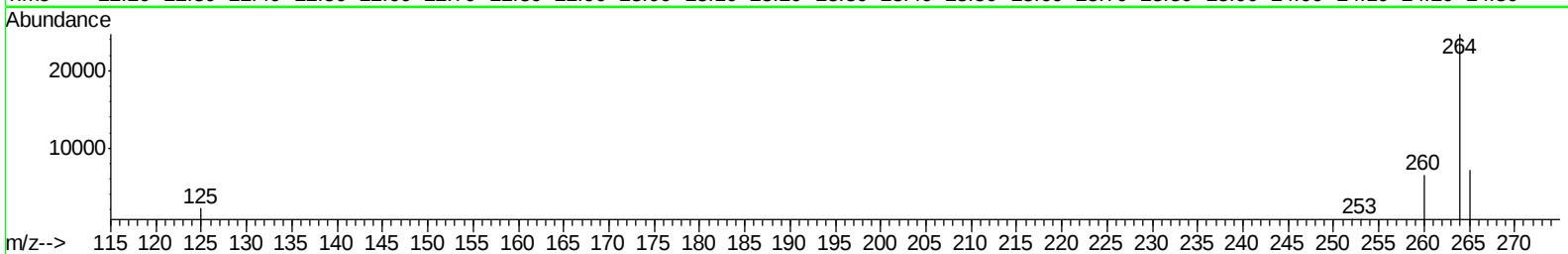
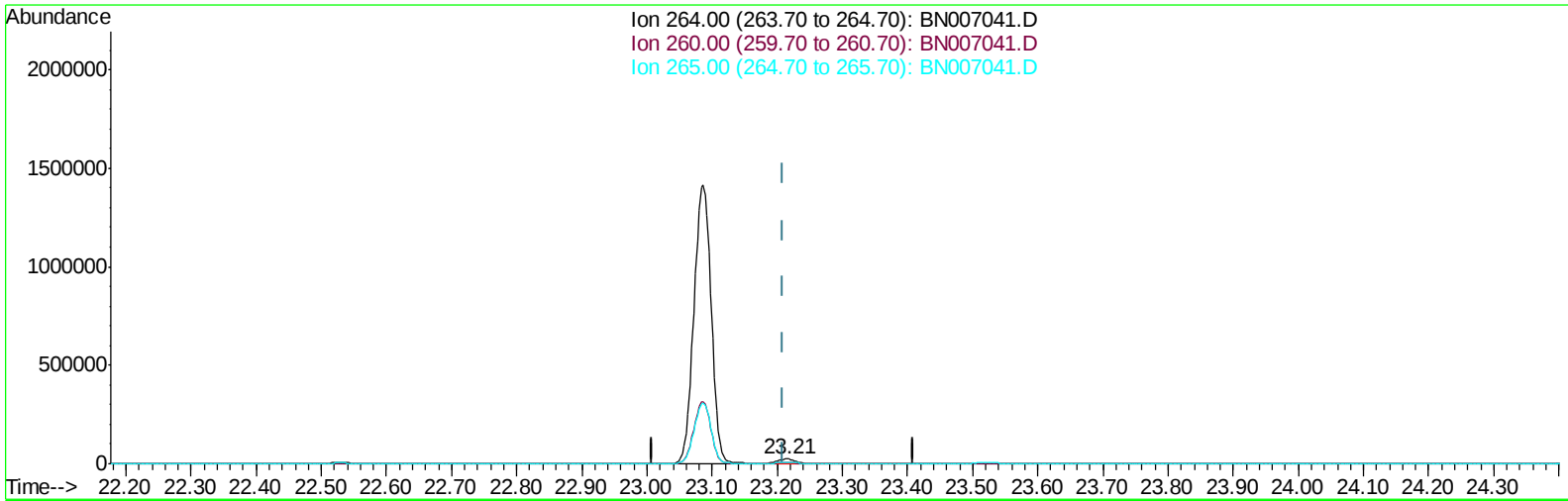
21.064min (-0.000) 0.51ng/ul m

response 103372

Ion	Exp%	Act%
228.00	100	100
229.00	19.90	20.59
226.00	27.80	30.74
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:27:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(20) Perylene-d12 (I)

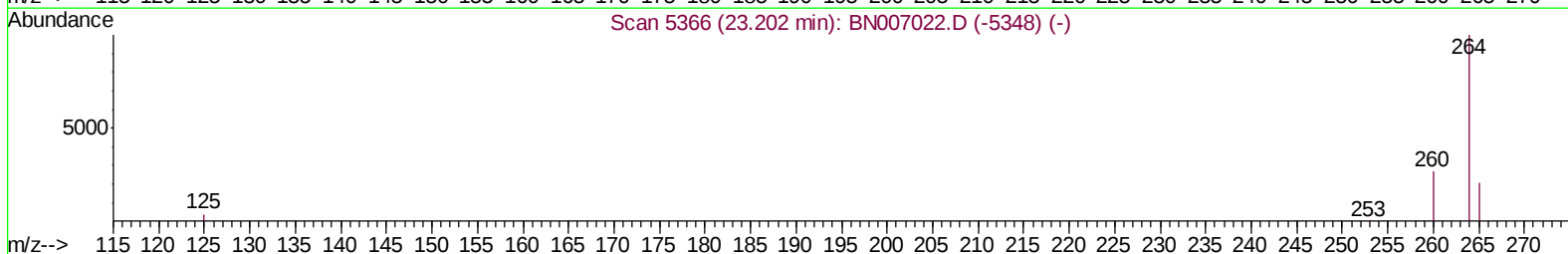
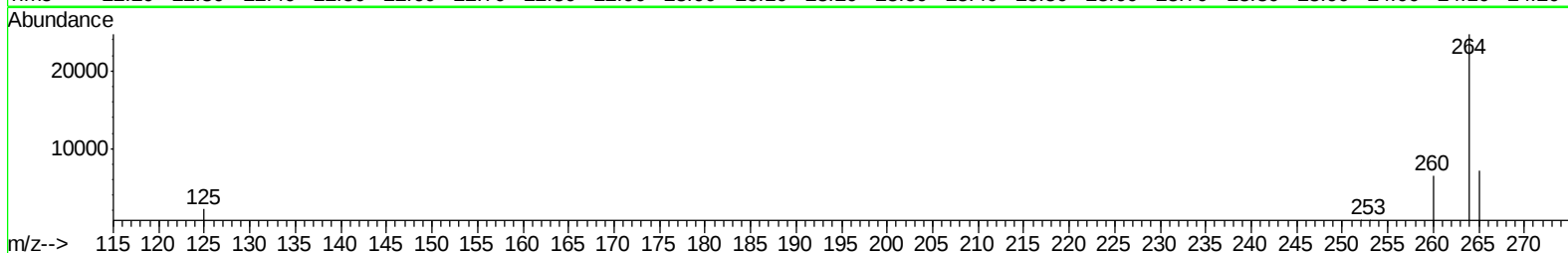
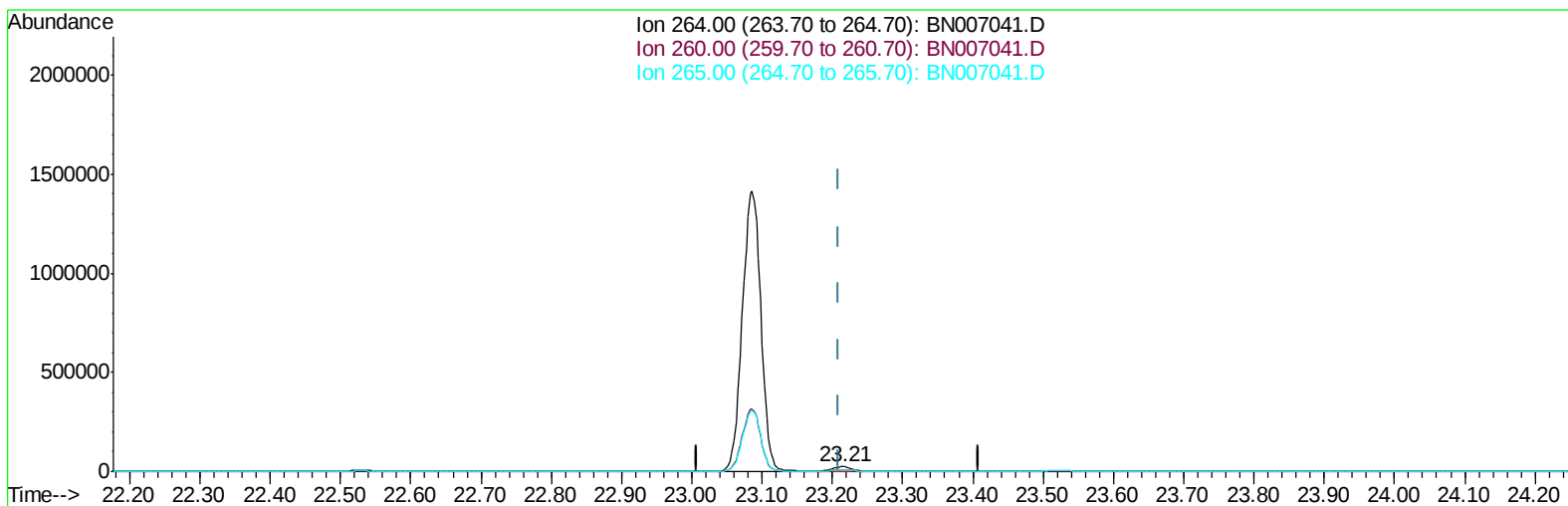
23.215min (+0.006) 0.40ng/ul

response 48790

Ion	Exp%	Act%
264.00	100	100
260.00	26.40	26.23
265.00	27.80	29.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:27:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(20) Perylene-d12 (I)

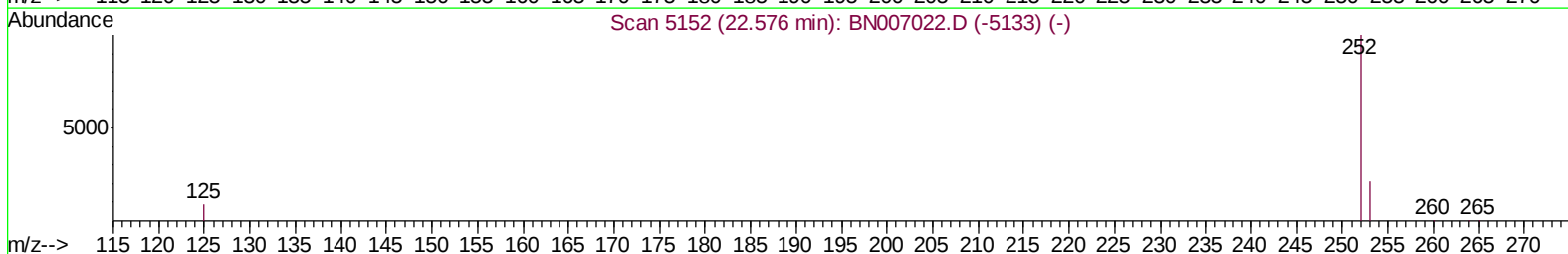
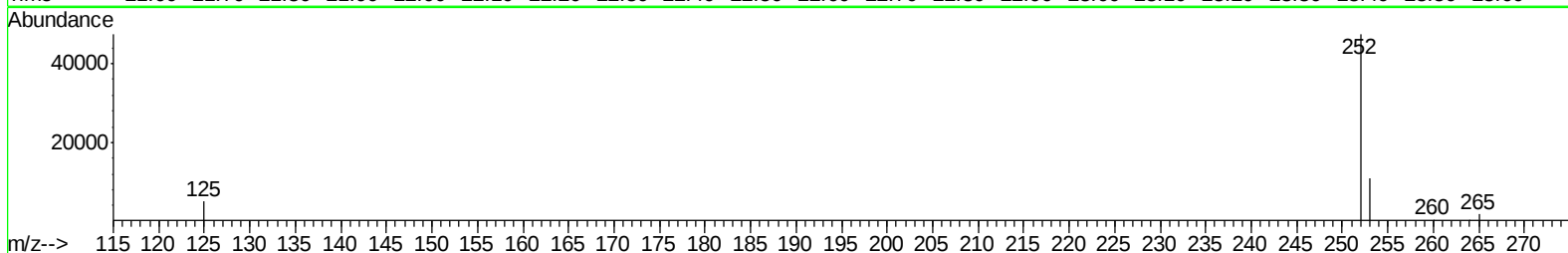
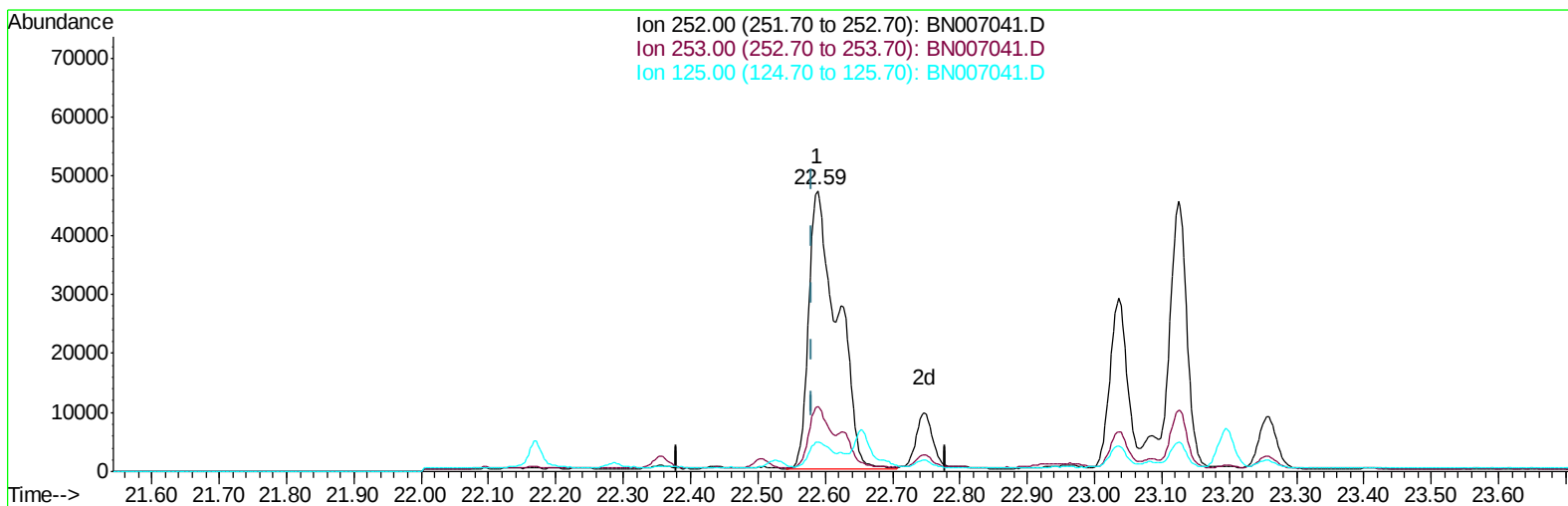
23.215min (+0.006) 0.40ng/ul m

response 39496

Ion	Exp%	Act%
264.00	100	100
260.00	26.40	26.23
265.00	27.80	29.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:28:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
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TIC: BN007041.D

(21) Benzo(b)fluoranthene

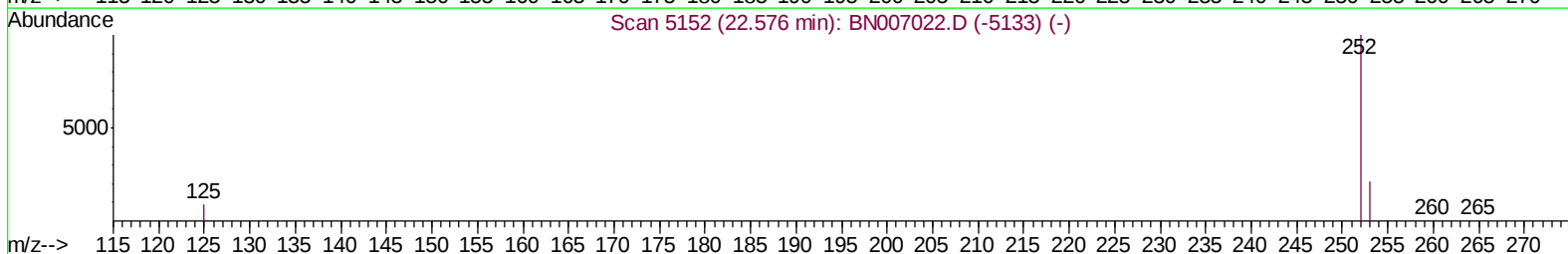
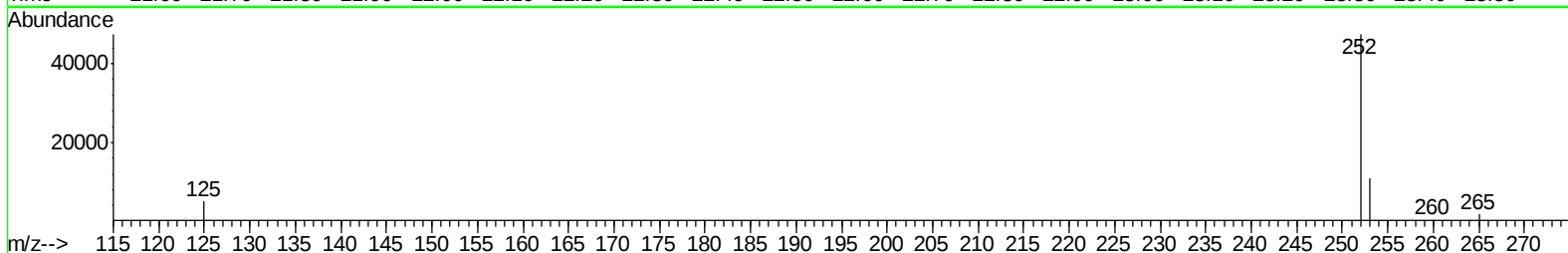
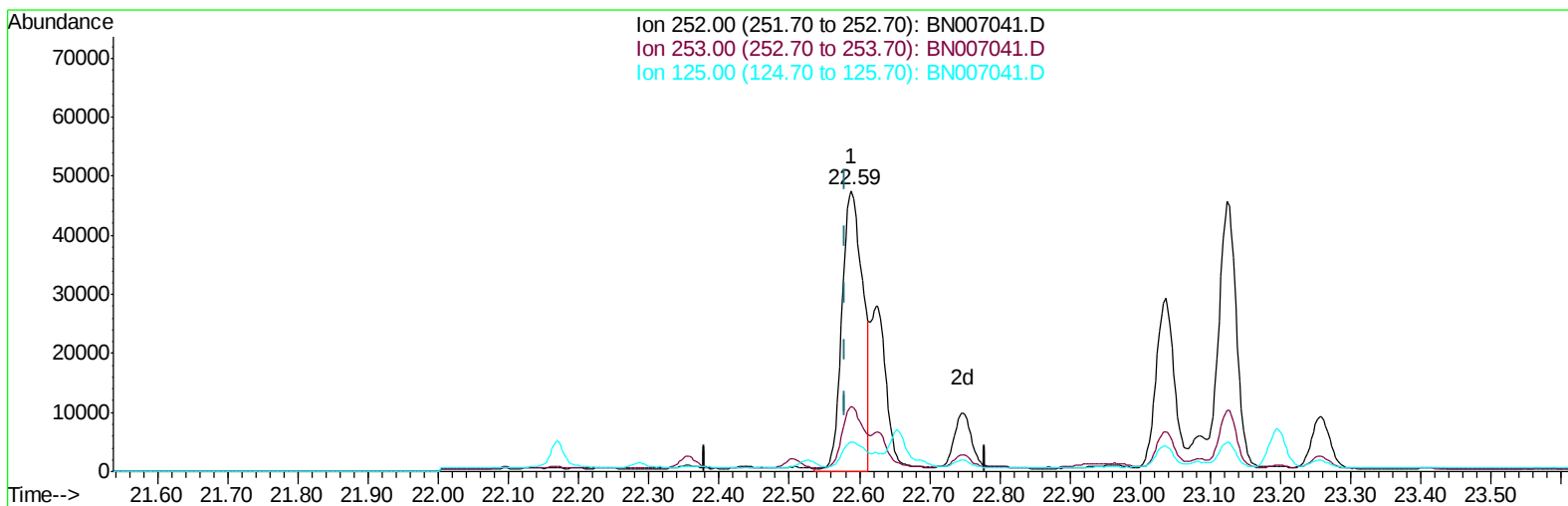
22.589min (+0.009) 0.88ng/ul

response 140157

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.12
125.00	11.10	10.56
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:28:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
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TIC: BN007041.D

(21) Benzo(b)fluoranthene

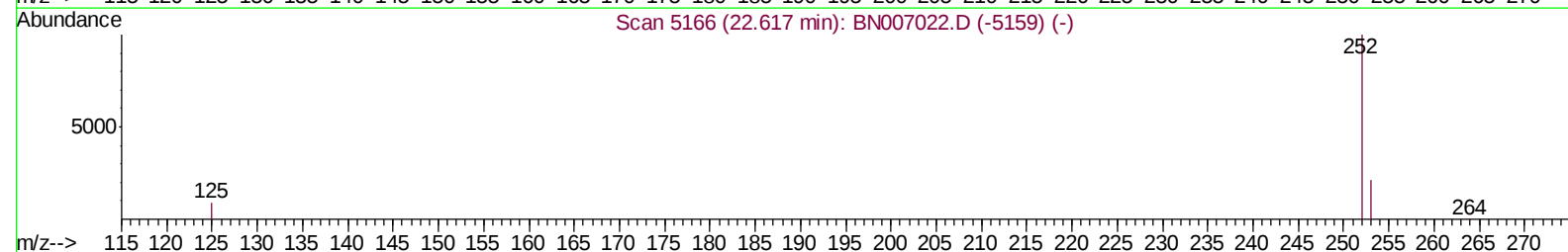
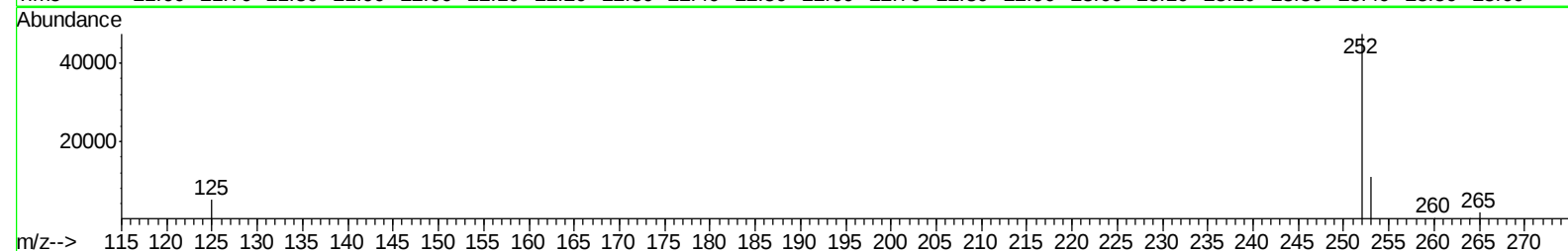
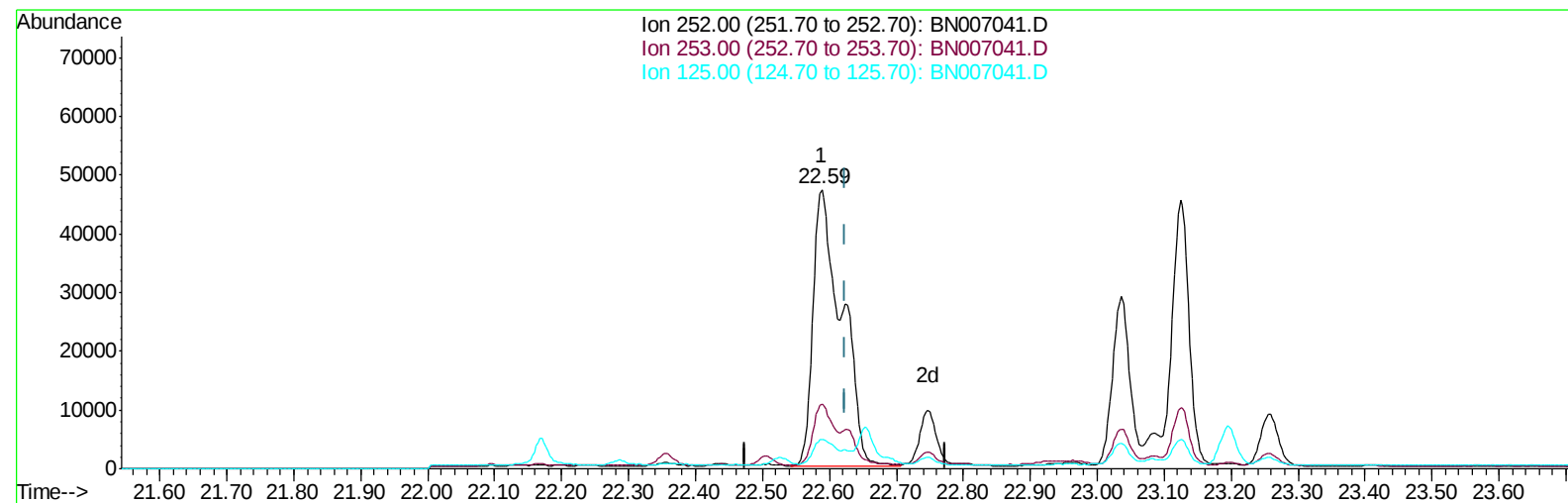
22.589min (+0.009) 0.62ng/ul m

response 98823

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.12
125.00	11.10	10.56
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:28:26 2019
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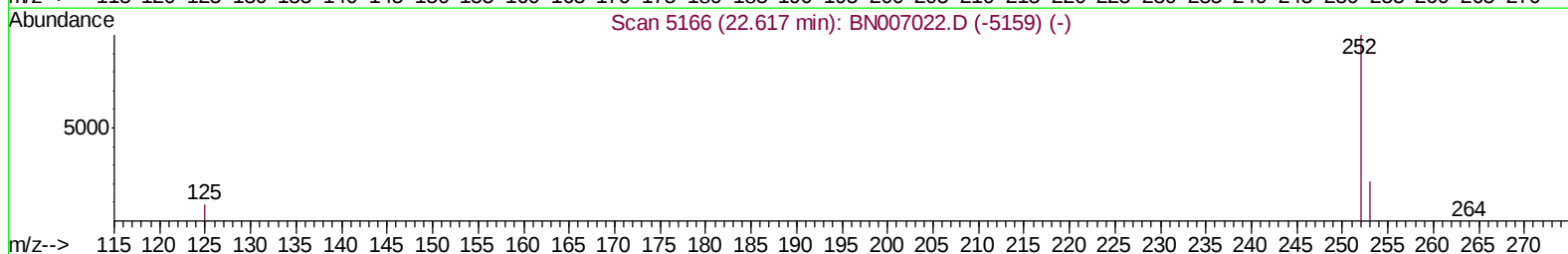
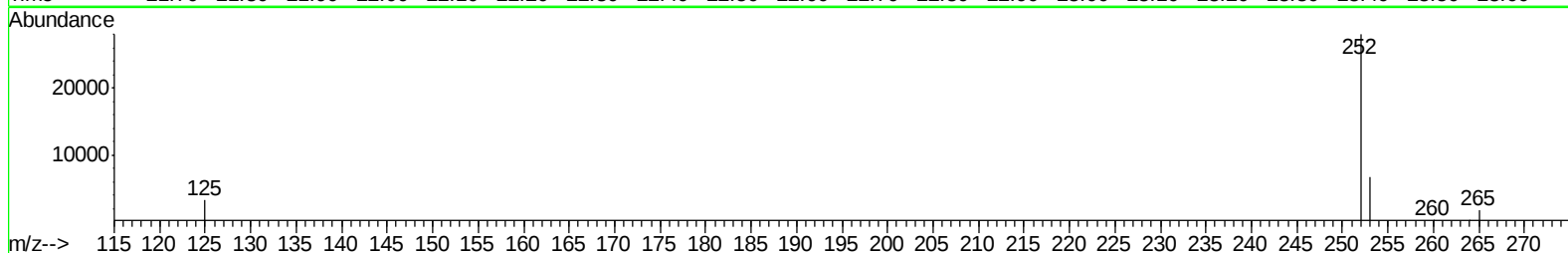
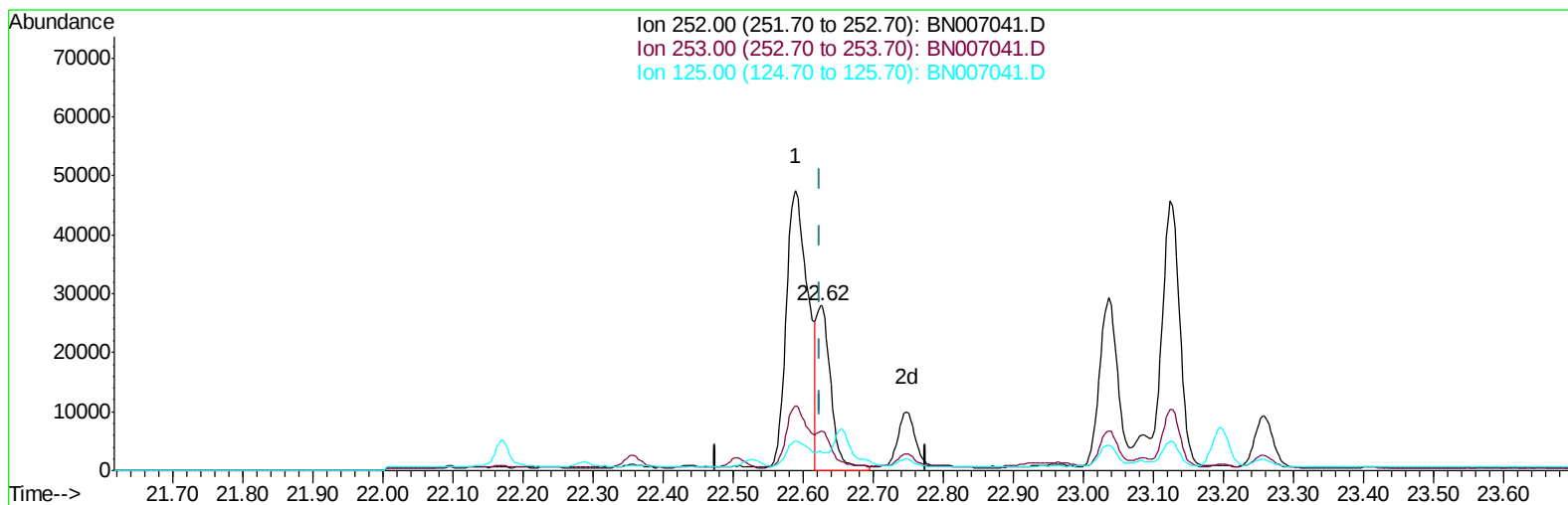
TIC: BN007041.D

(22) Benzo(k)fluoranthene
22.589min (-0.035) 0.90ng/ul
response 140157

Ion	Exp%	Act%
252.00	100	100
253.00	23.30	23.12
125.00	10.90	10.56
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080919\
Data File : BN007041.D
Acq On : 09 Aug 2019 16:10
Operator : HP/JU
Sample : K3962-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:28:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 17:30:08 2019
Response via : Initial Calibration



TIC: BN007041.D

(22) Benzo(k)fluoranthene

22.624min (-0.000) 0.27ng/ul m

response 41313

Ion	Exp%	Act%
252.00	100	100
253.00	23.30	24.09
125.00	10.90	11.34
0.00	0.00	0.00

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 Data File : BN007041.D
 Acq On : 09 Aug 2019 16:10
 Operator : HP/JU
 Sample : K3962-15
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 17:29:11 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN080719.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Aug 07 17:30:08 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.46	152	9262	0.40	ng/ul	-0.01
2) Naphthalene-d8	10.22	136	35205	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.11	164	20995	0.40	ng/ul	0.00
10) Phenanthrene-d10	16.86	188	53791m	0.40	ng/ul	0.00
16) Chrysene-d12	21.08	240	46021m	0.40	ng/ul	0.00
20) Perylene-d12	23.21	264	39496m	0.40	ng/ul	0.00
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.82	152	16154	0.26	ng/ul	-0.01
14) Fluoranthene-d10	18.90	212	48659m	0.28	ng/ul	0.00
Target Compounds					Qvalue	
3) Naphthalene	10.27	128	3247	0.032	ng/ul#	93
5) 2-Methylnaphthalene	11.90	142	1771	0.023	ng/ul	99
7) Acenaphthylene	13.82	152	6576	0.054	ng/ul	97
8) Acenaphthene	14.17	153	2014	0.024	ng/ul	98
9) Fluorene	15.17	166	3355	0.033	ng/ul#	96
12) Phenanthrene	16.90	178	77745m	0.454	ng/ul	
13) Anthracene	16.99	178	19359m	0.110	ng/ul	
15) Fluoranthene	18.93	202	160532m	0.753	ng/ul	
17) Pyrene	19.30	202	171048	0.833	ng/ul	98
18) Benzo(a)anthracene	21.06	228	103372m	0.511	ng/ul	
19) Chrysene	21.12	228	102010	0.539	ng/ul	98
21) Benzo(b)fluoranthene	22.59	252	98823m	0.617	ng/ul	
22) Benzo(k)fluoranthene	22.62	252	41313m	0.266	ng/ul	
23) Benzo(a)pyrene	23.12	252	77179	0.512	ng/ul	98
24) Indeno(1,2,3-cd)pyrene	25.31	276	44374	0.273	ng/ul#	99
25) Dibenzo(a,h)anthracene	25.33	278	14626	0.113	ng/ul#	79
26) Benzo(g,h,i)perylene	25.94	276	43759	0.321	ng/ul	98

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

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