

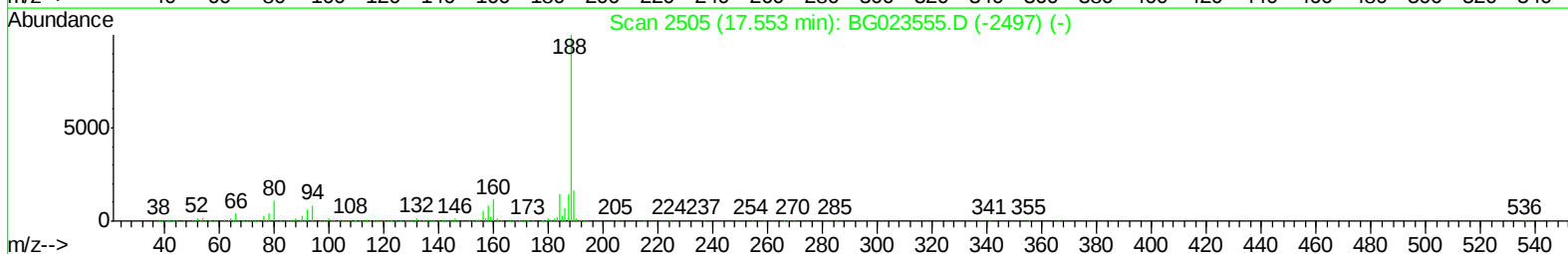
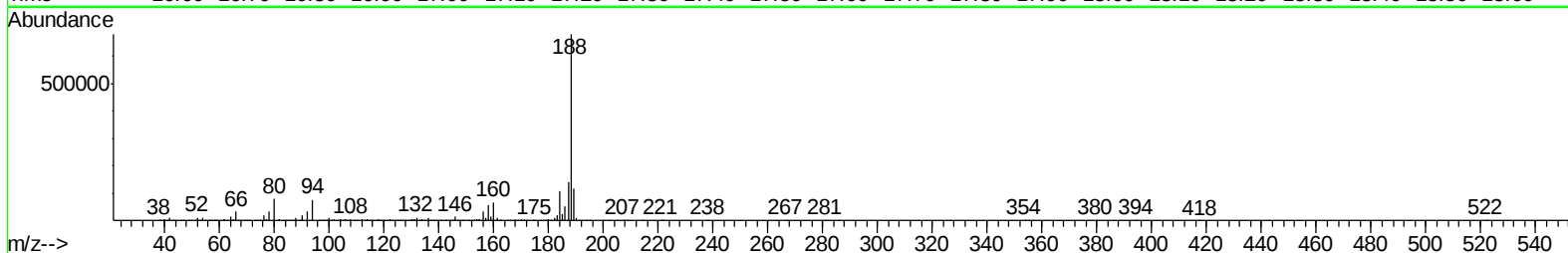
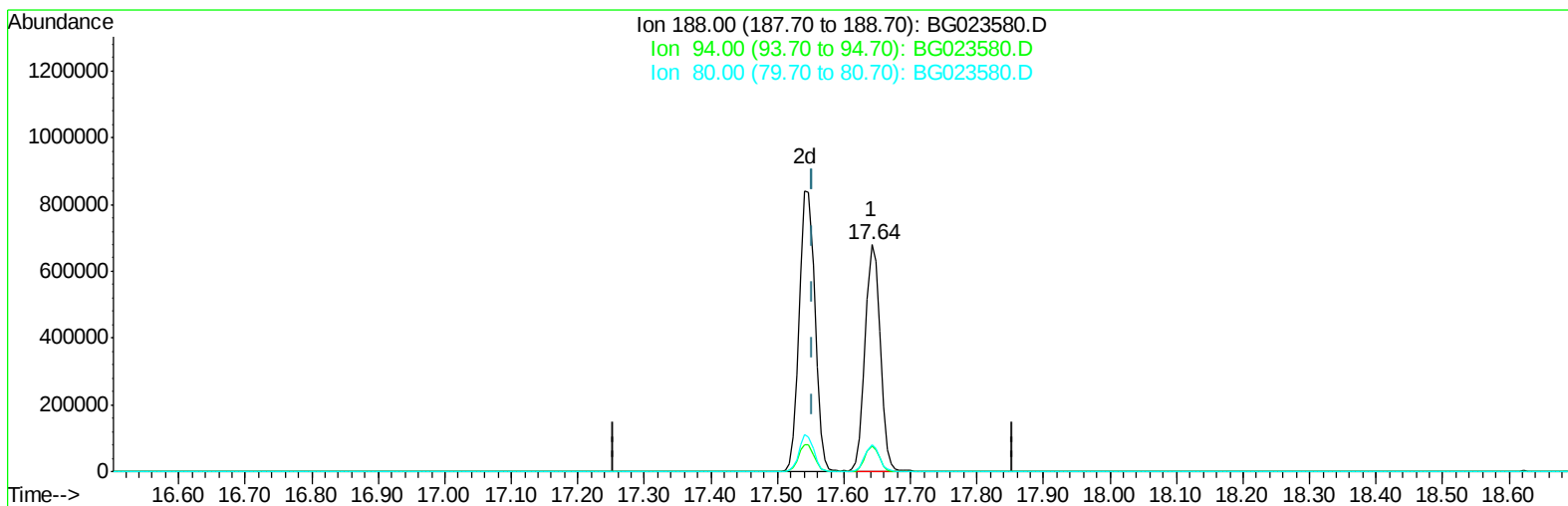
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

sohil
8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:54:14 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(61) Phenanthrene-d10 (I)

17.641min (+0.088) 20.00ng/ul

response 1037790

Ion	Exp%	Act%
188.00	100	100
94.00	10.30	11.18
80.00	10.90	11.63
0.00	0.00	0.00

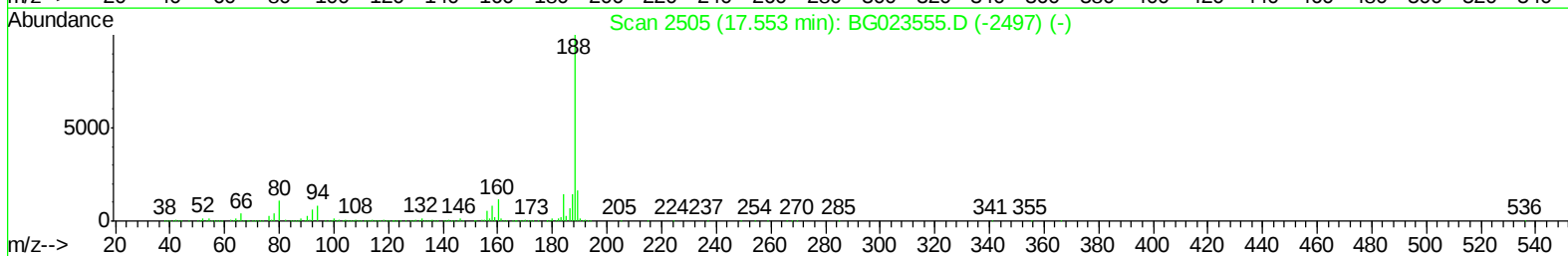
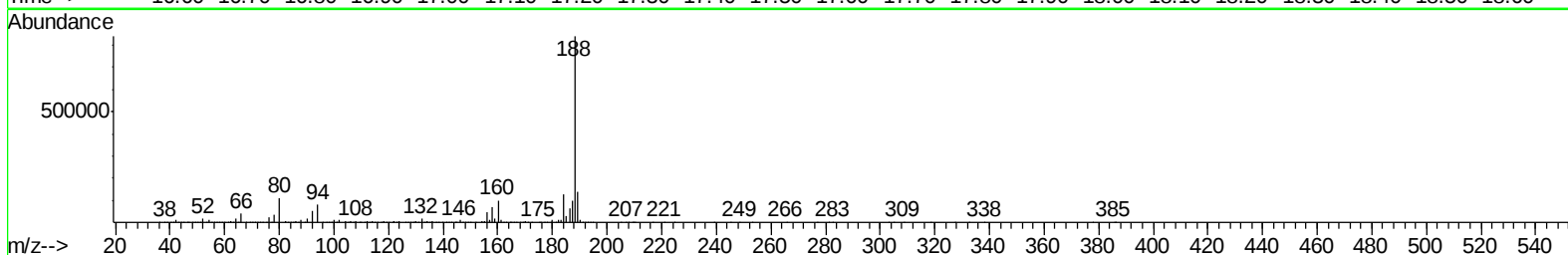
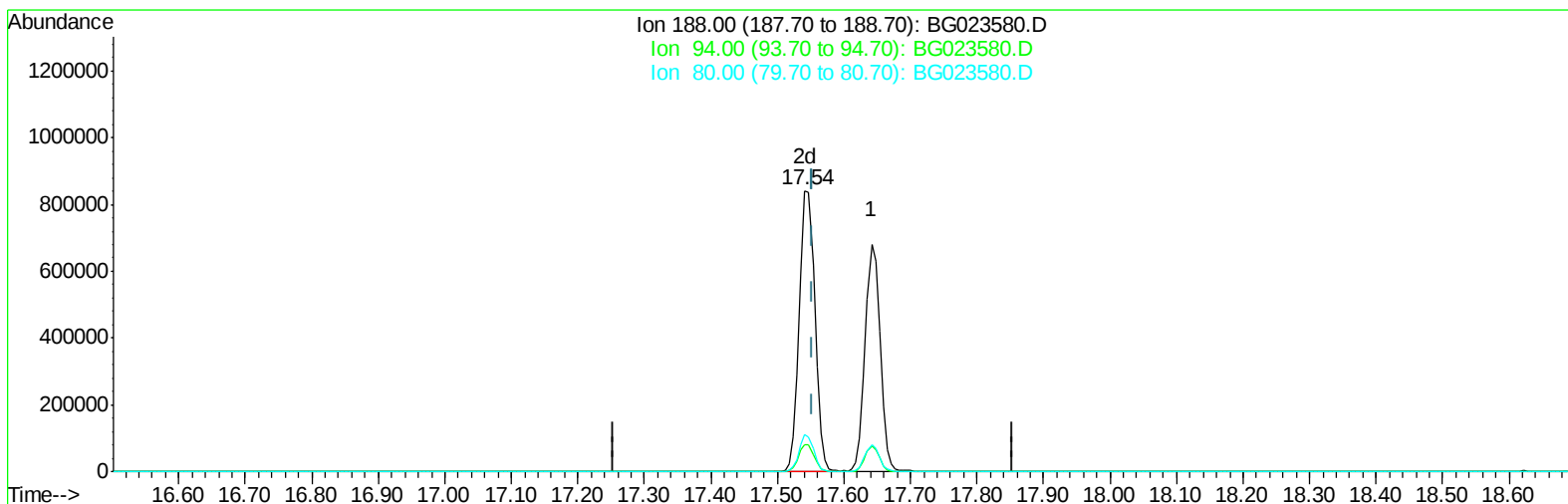
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

sohil
8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:54:14 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(61) Phenanthrene-d10 (I)

17.541min (-0.012) 20.00ng/ul m

response 1336626

Ion	Exp%	Act%
188.00	100	100
94.00	10.30	9.44
80.00	10.90	13.12#
0.00	0.00	0.00

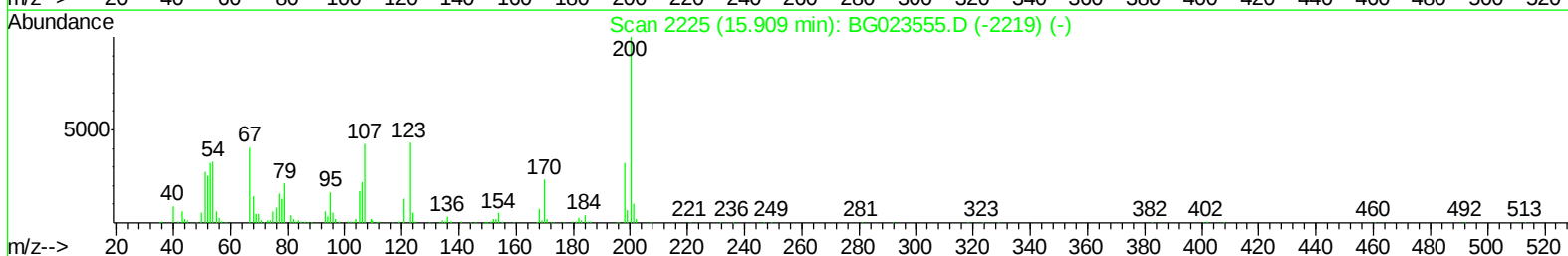
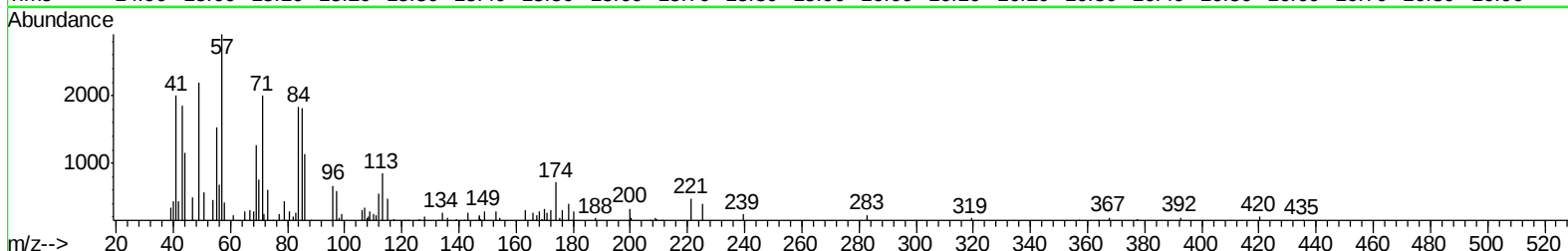
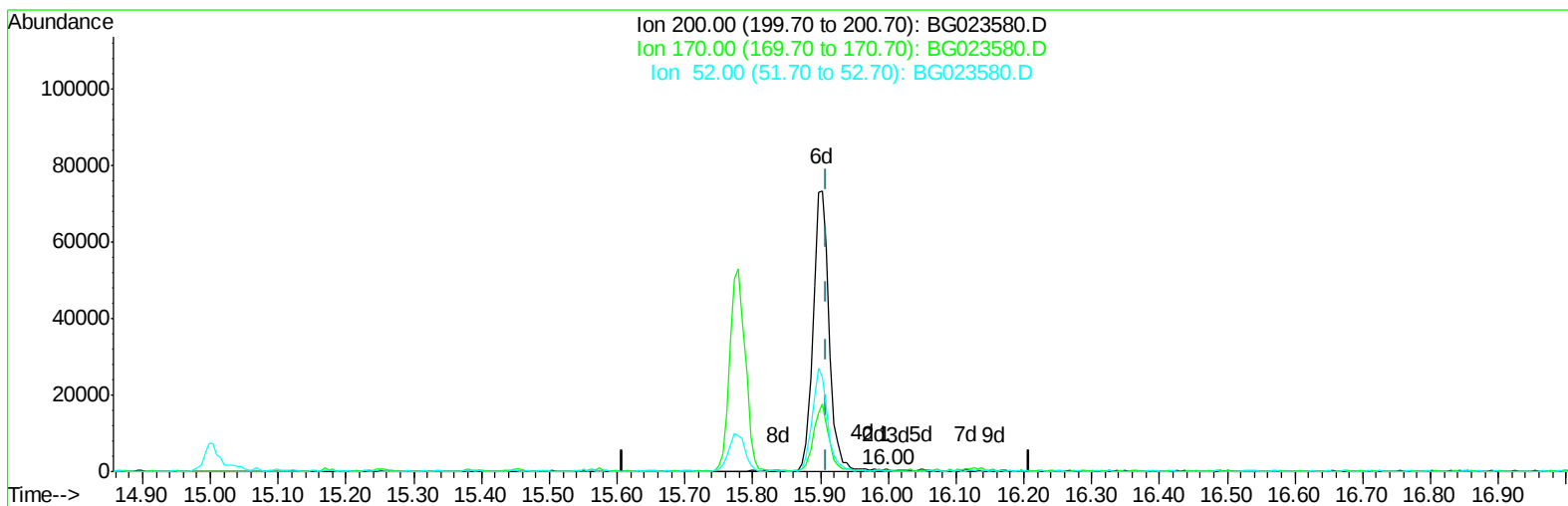
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
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Quant Time: Aug 10 06:55:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.997min (+0.088) 0.05ng/ul

response 407

Ion	Exp%	Act%
200.00	100	100
170.00	15.20	62.10#
52.00	32.20	0.00#
0.00	0.00	0.00

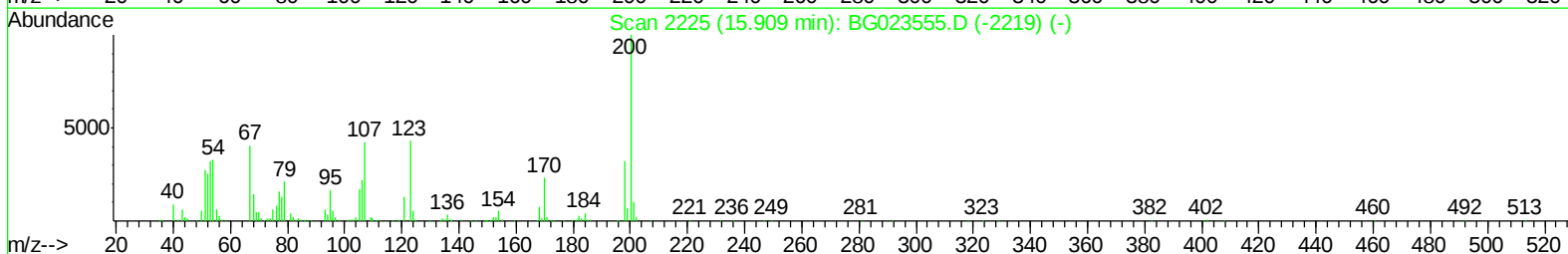
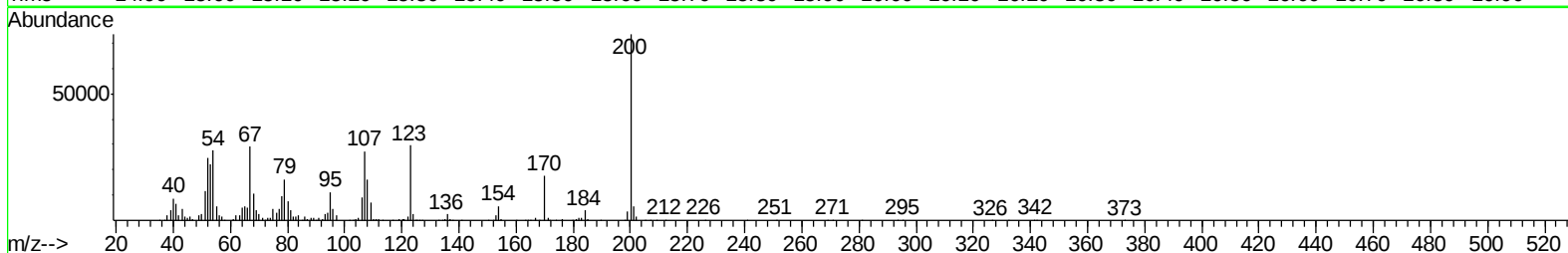
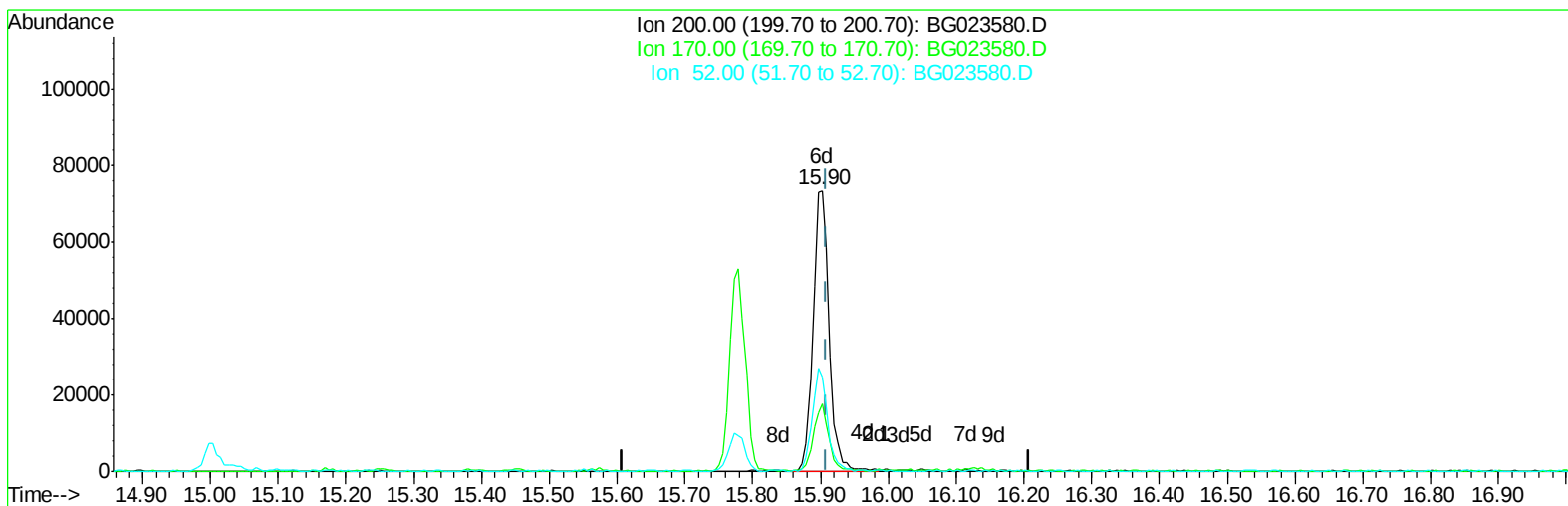
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

sohil
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Quant Time: Aug 10 06:55:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.903min (-0.006) 14.30ng/ul m

response 122599

Ion	Exp%	Act%
200.00	100	100
170.00	15.20	23.99#
52.00	32.20	33.43
0.00	0.00	0.00

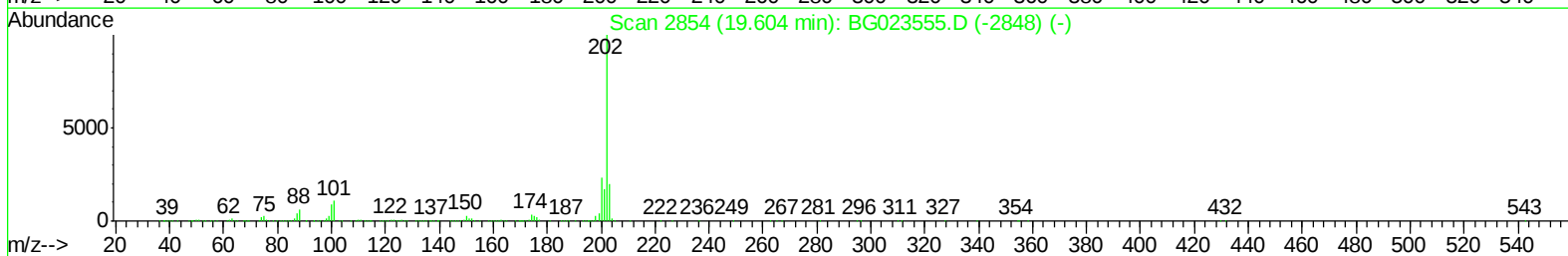
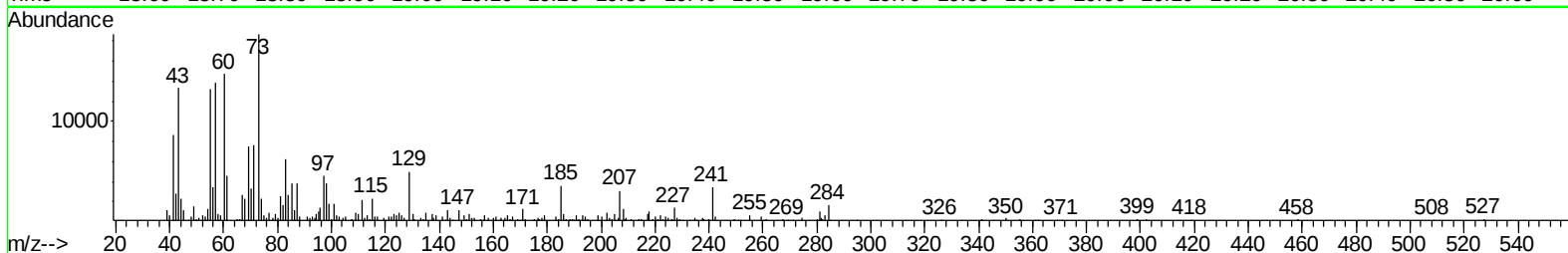
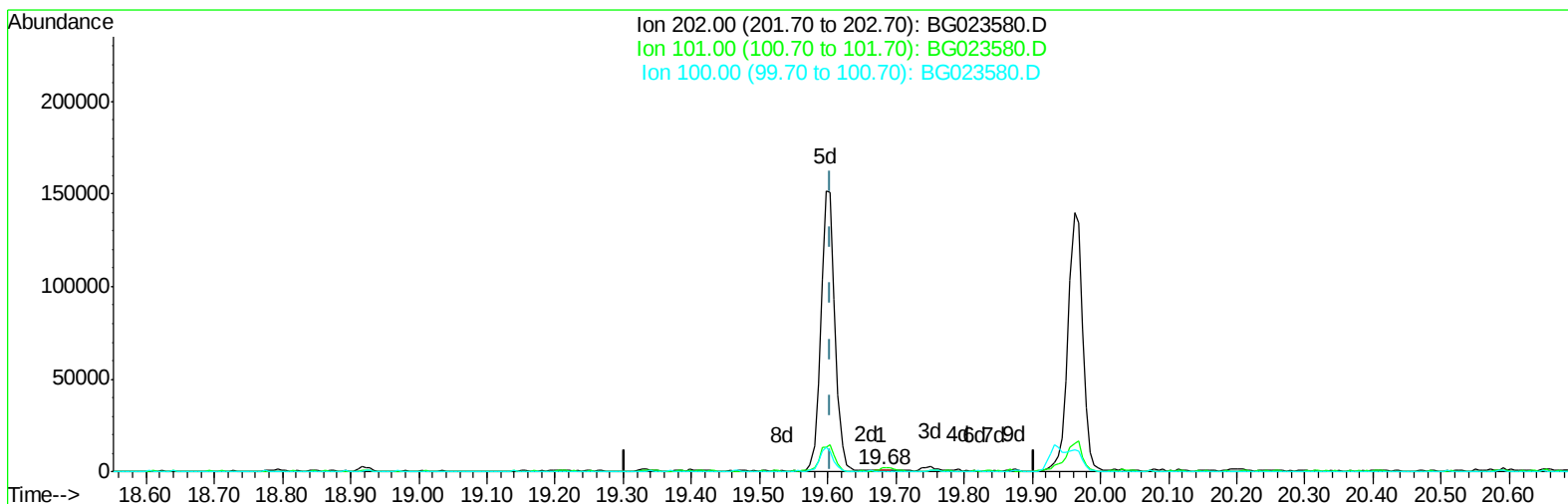
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

sohil
8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:55:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(74) Fluoranthene (C)

19.680min (+0.076) 0.01ng/ul

response 590

Ion	Exp%	Act%
202.00	100	100
101.00	13.30	208.32#
100.00	10.90	26.13#
0.00	0.00	0.00

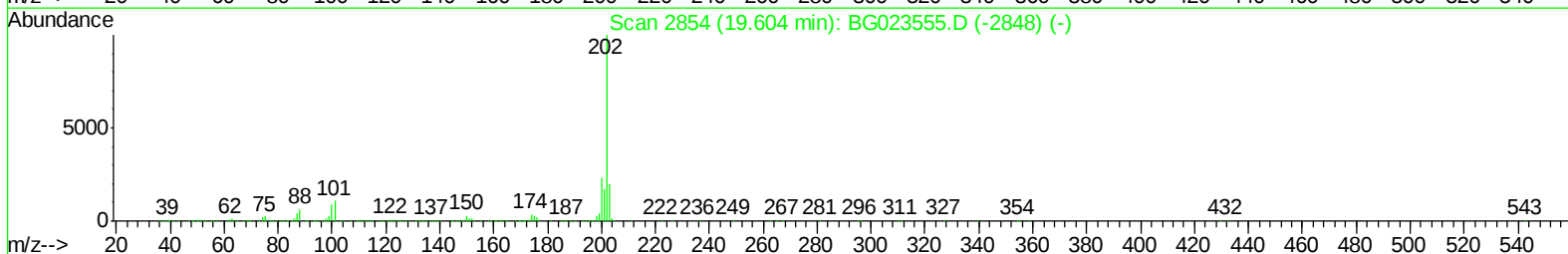
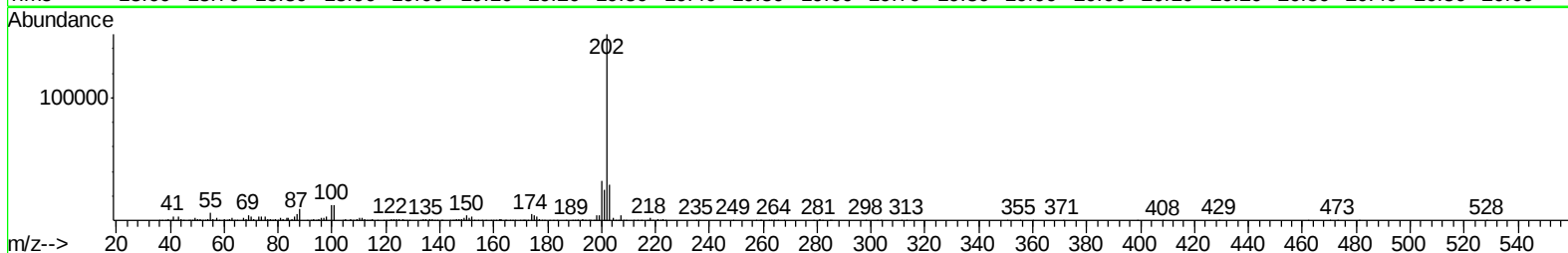
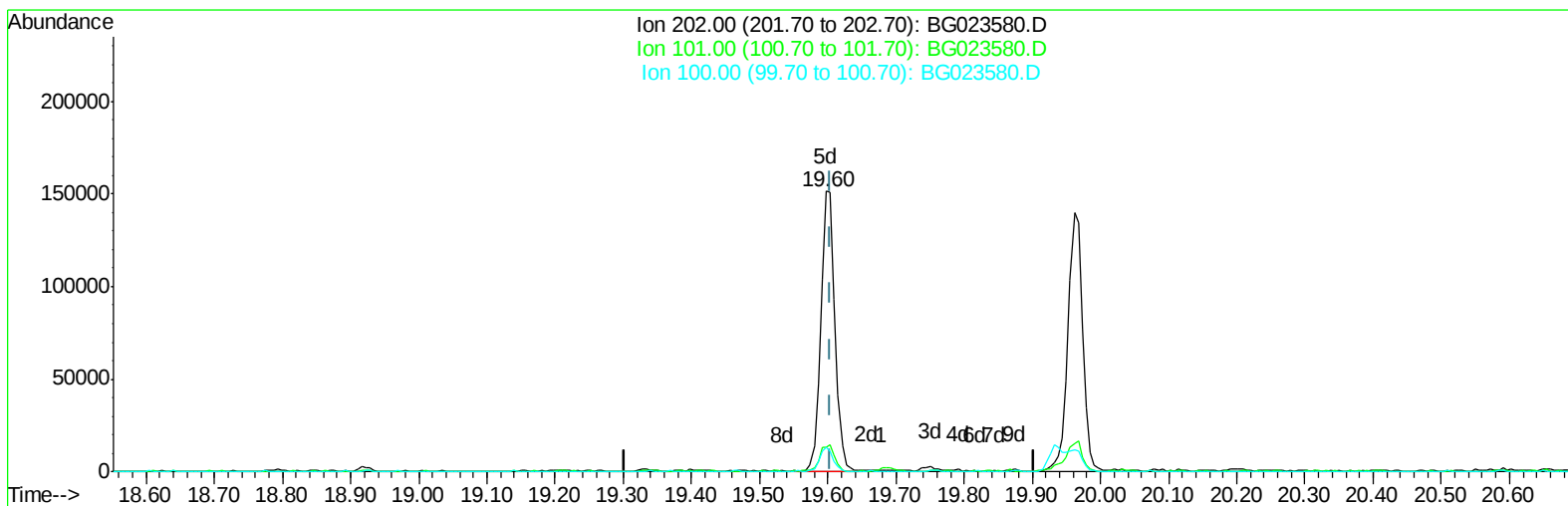
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
 Data File : BG023580.D
 Acq On : 10 Aug 2016 6:19
 Operator : UM/SJ
 Sample : H4362-12
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PR001-SS006-0002-01

Manual Integrations
 APPROVED

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Quant Time: Aug 10 06:55:17 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 10 05:01:49 2016
 Response via : Initial Calibration



TIC: BG023580.D

(74) Fluoranthene (C)

19.598min (-0.006) 3.13ng/ul m

response 221581

Ion	Exp%	Act%
202.00	100	100
101.00	13.30	8.44#
100.00	10.90	8.47#
0.00	0.00	0.00

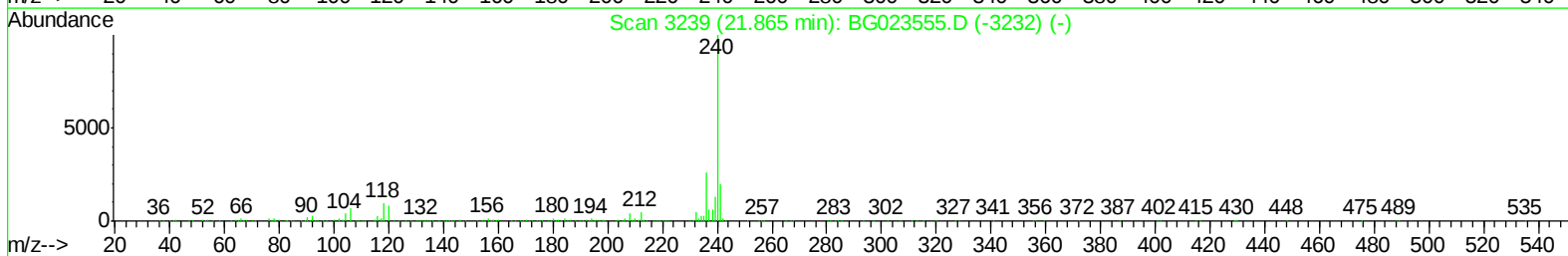
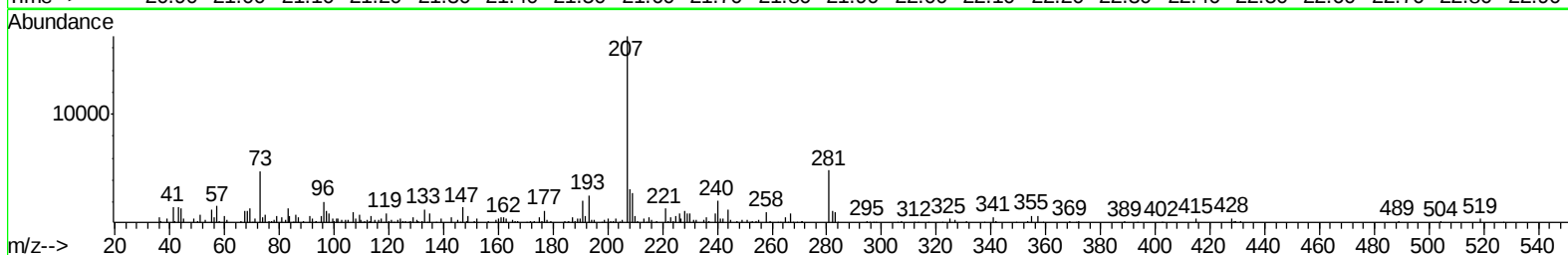
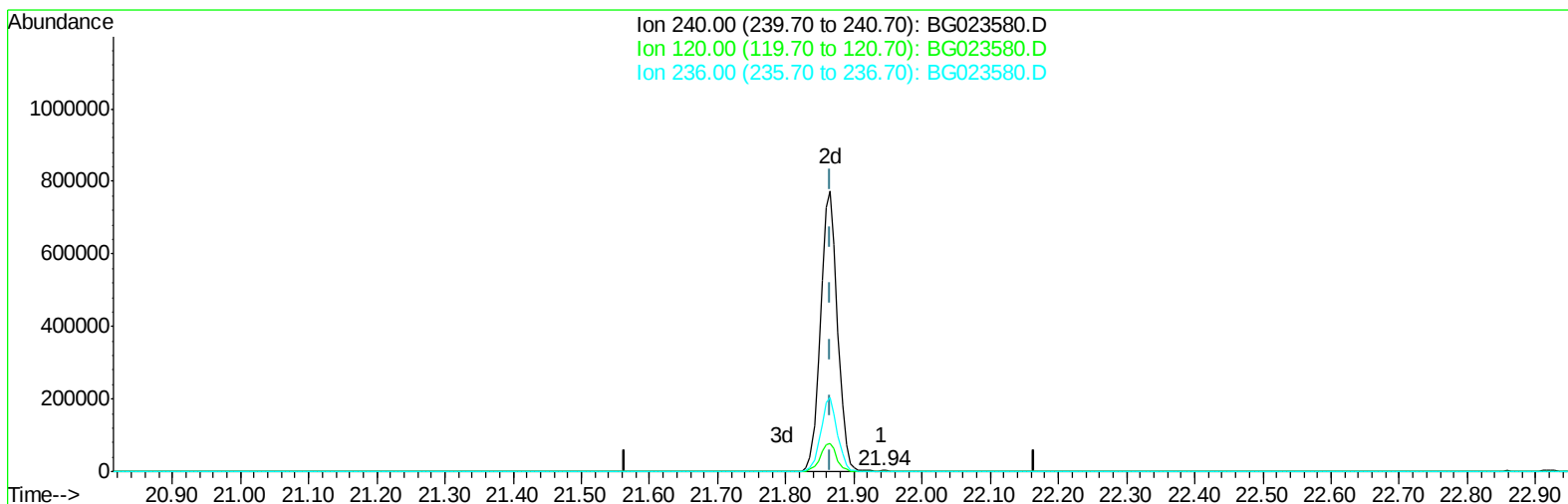
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Quant Time: Aug 10 06:55:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

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TIC: BG023580.D

(75) Chrysene-d12 (I)

21.941min (+0.076) 20.00ng/ul

response 1690

Ion	Exp%	Act%
240.00	100	100
120.00	14.40	12.08
236.00	26.10	32.48#
0.00	0.00	0.00

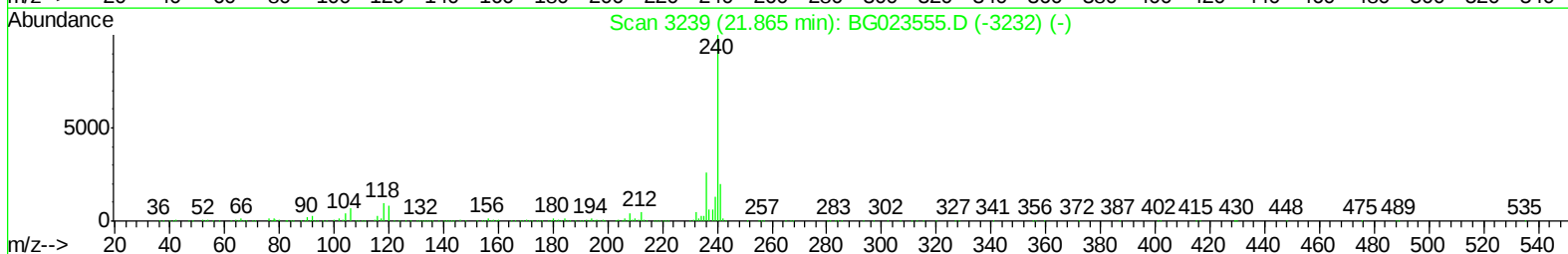
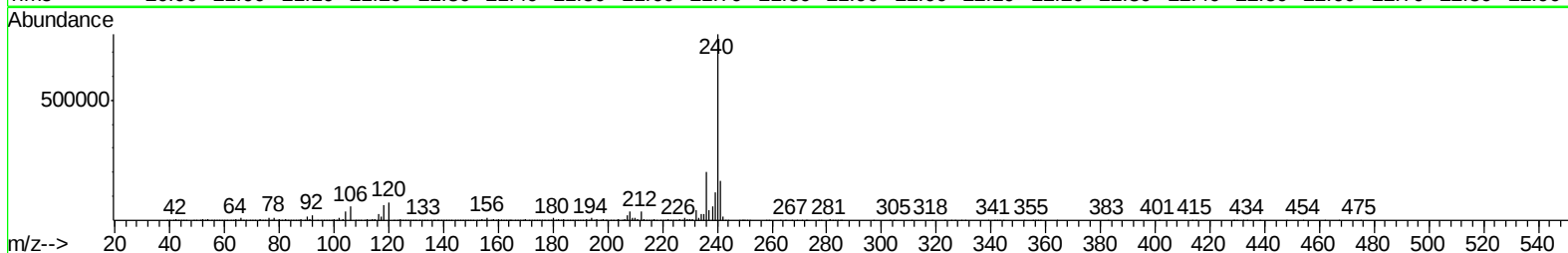
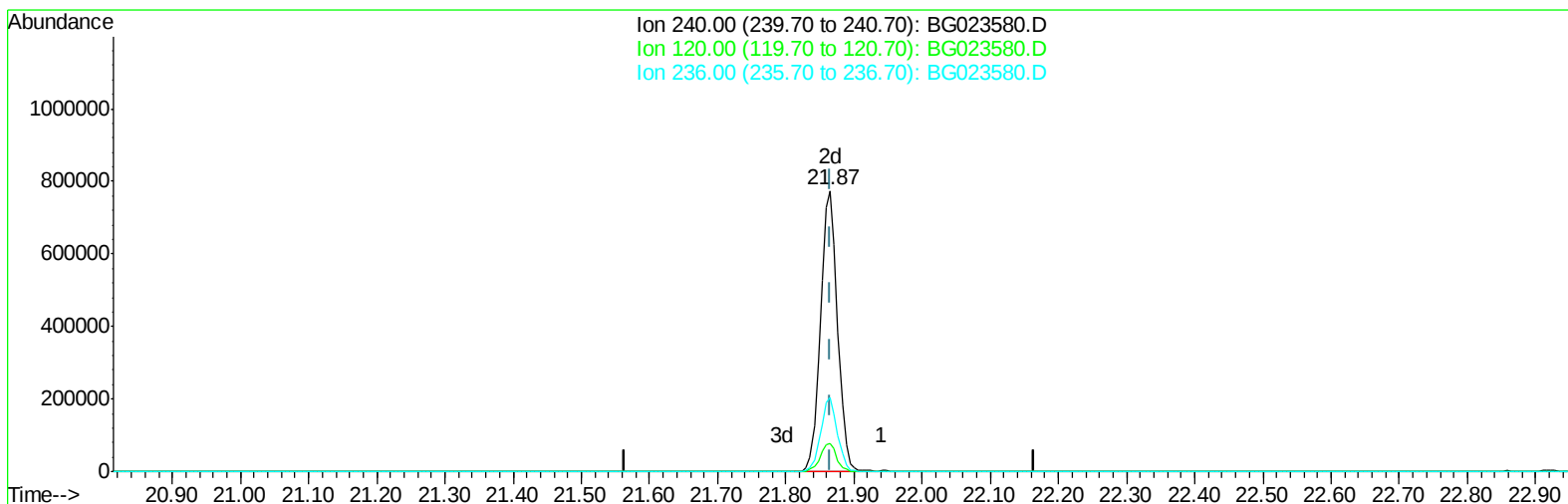
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Quant Time: Aug 10 06:55:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

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8/10/2016 6:51:46 PM



TIC: BG023580.D

(75) Chrysene-d12 (I)

21.865min (-0.000) 20.00ng/ul m

response 1348556

Ion	Exp%	Act%
240.00	100	100
120.00	14.40	9.93#
236.00	26.10	26.19
0.00	0.00	0.00

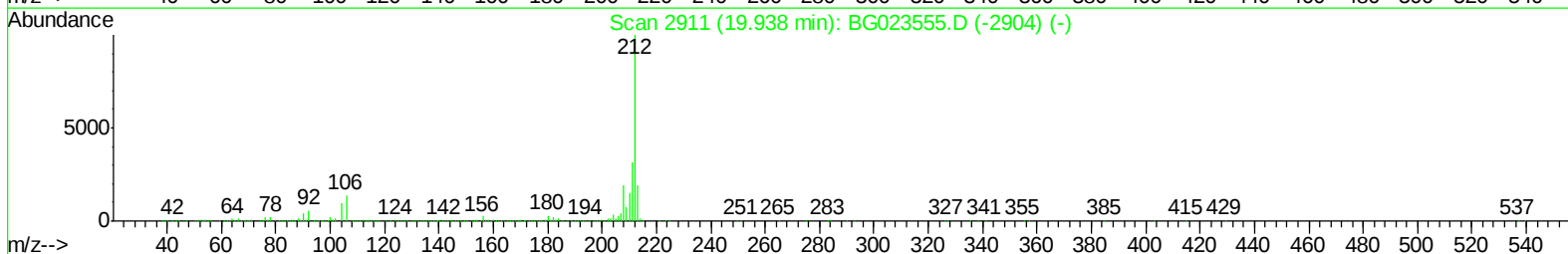
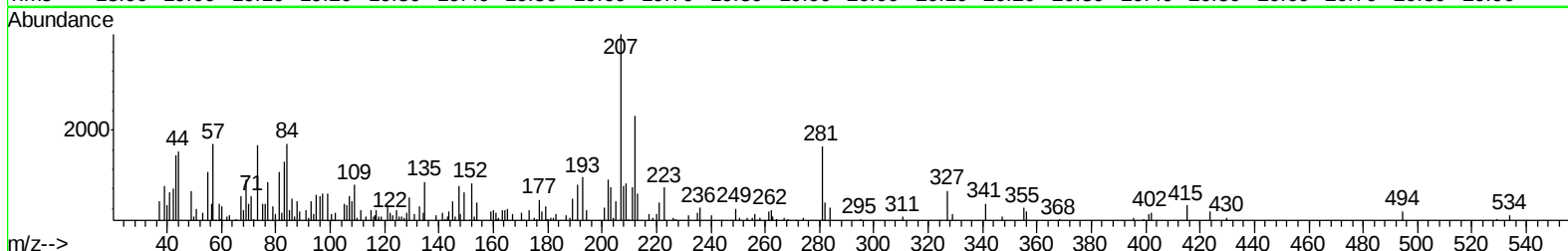
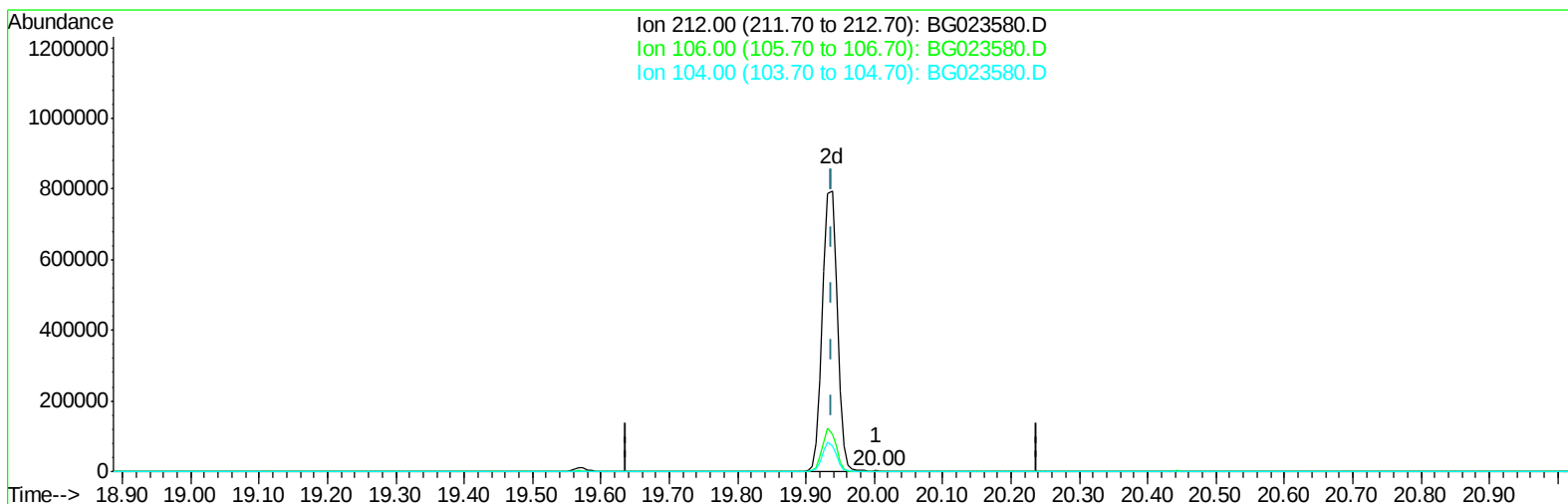
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
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sohil
8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(76) Pyrene-d10 (S)

20.003min (+0.064) 0.02ng/ul

response 1538

Ion	Exp%	Act%
212.00	100	100
106.00	18.40	20.58
104.00	11.70	0.00#
0.00	0.00	0.00

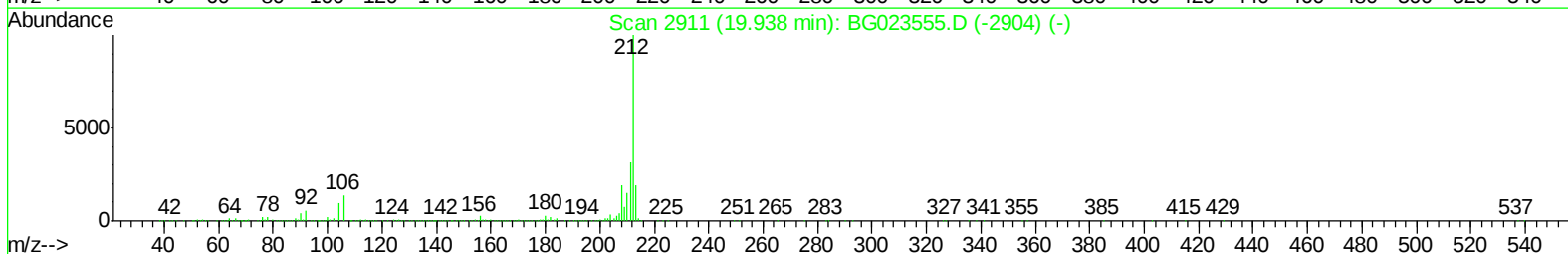
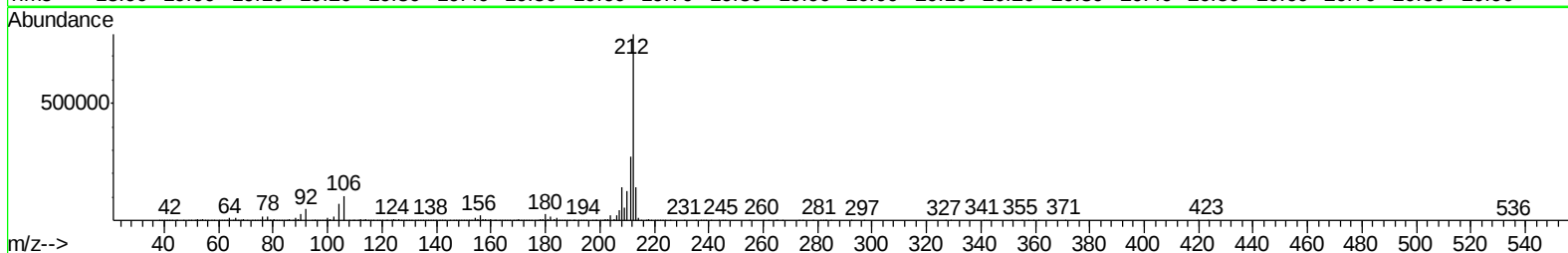
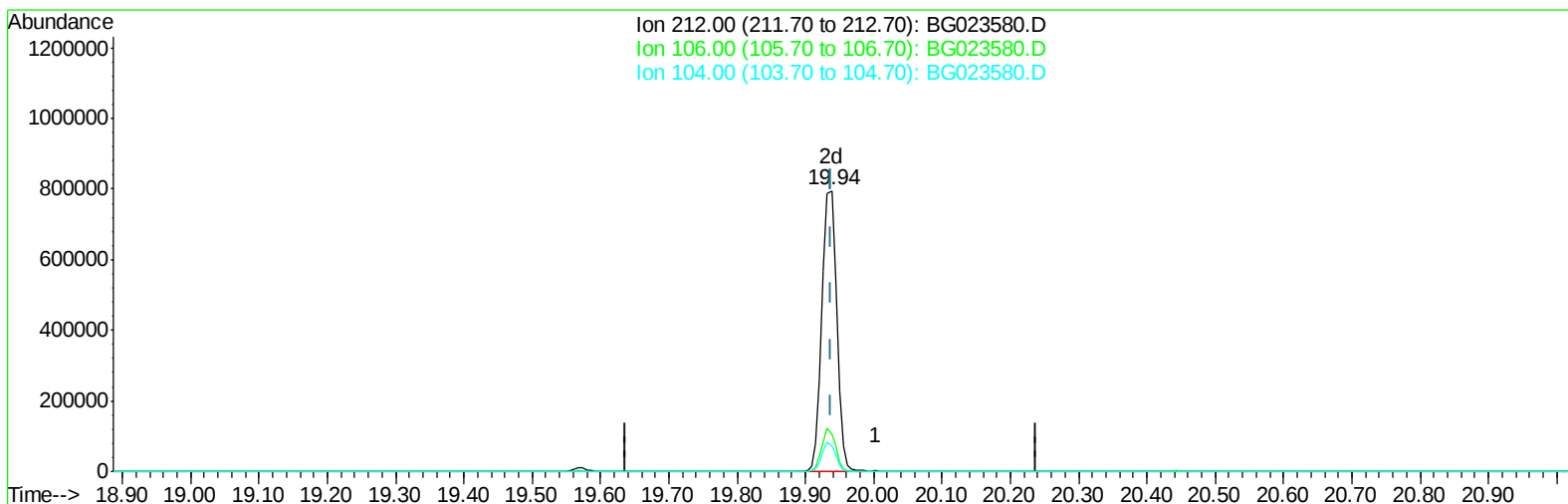
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

sohil
8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(76) Pyrene-d10 (S)

19.938min (-0.000) 17.42ng/ul m

response 1189285

Ion	Exp%	Act%
212.00	100	100
106.00	18.40	13.30#
104.00	11.70	9.15#
0.00	0.00	0.00

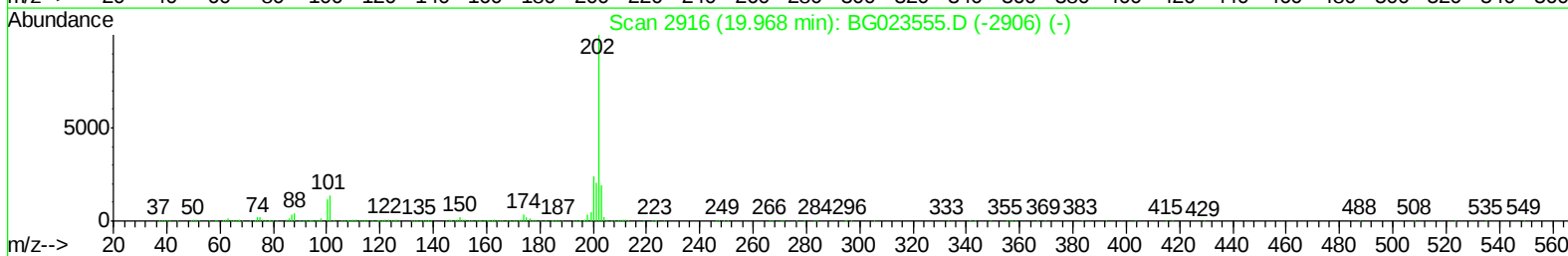
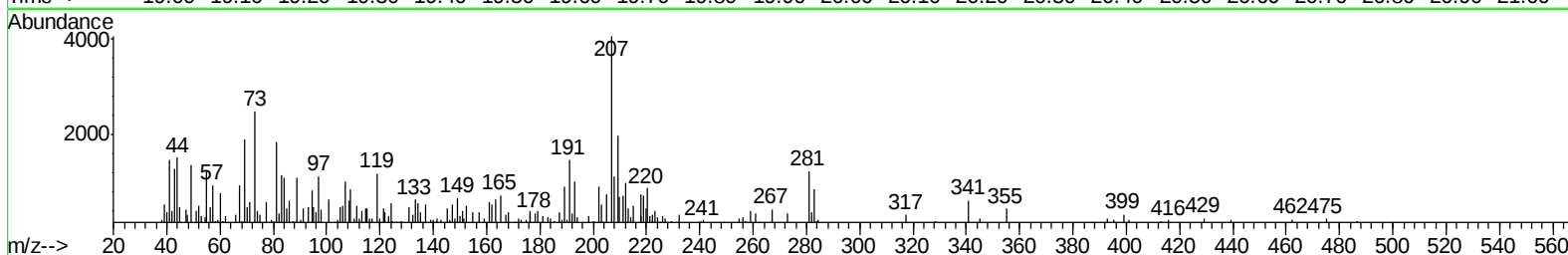
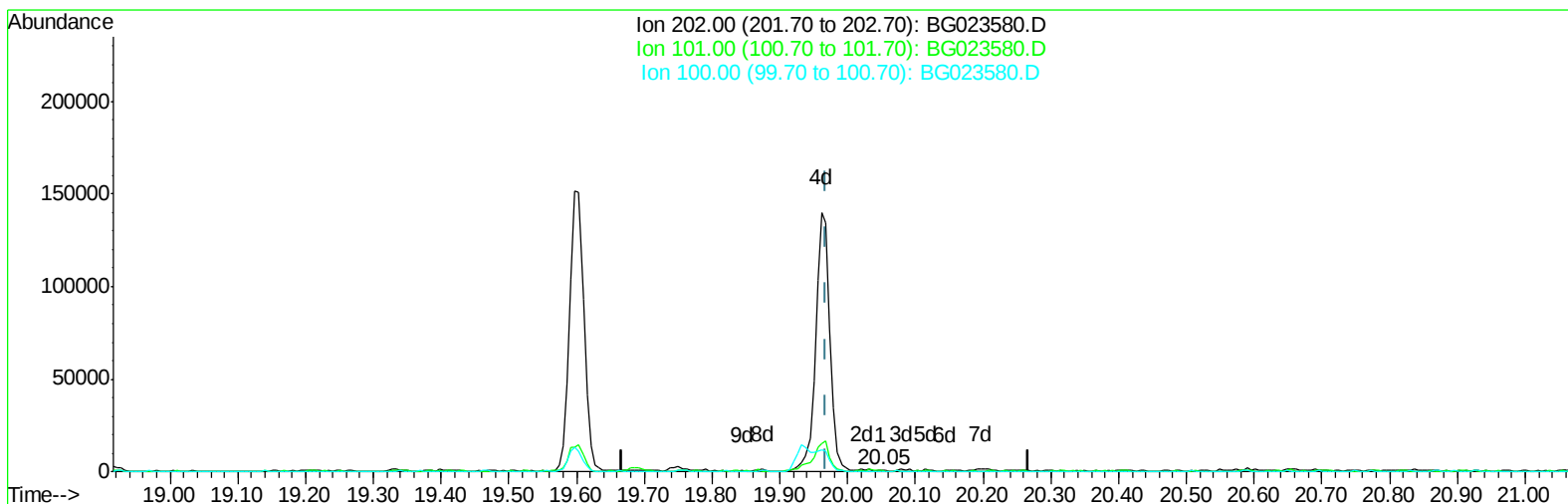
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

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8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(77) Pyrene

20.050min (+0.082) 0.01ng/ul

response 589

Ion	Exp%	Act%
202.00	100	100
101.00	15.60	70.97#
100.00	12.80	0.00#
0.00	0.00	0.00

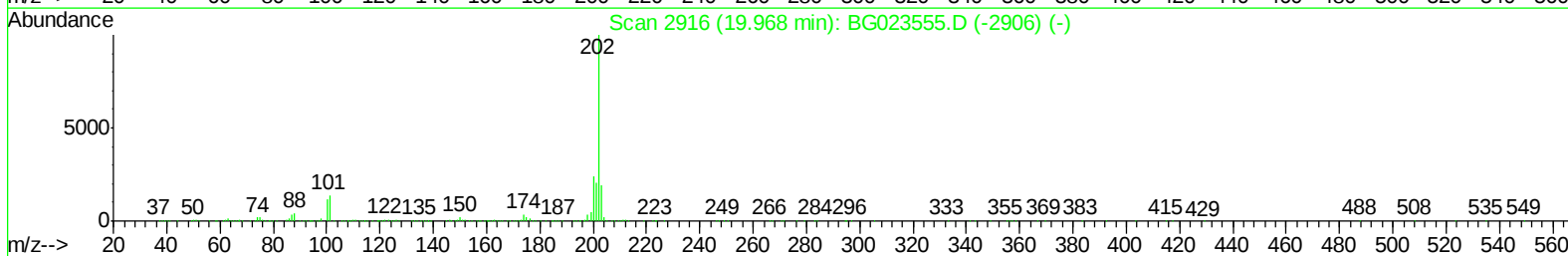
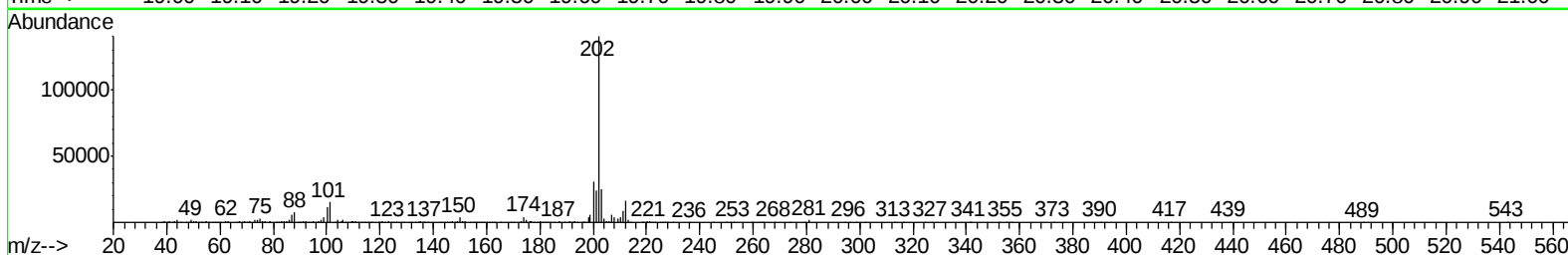
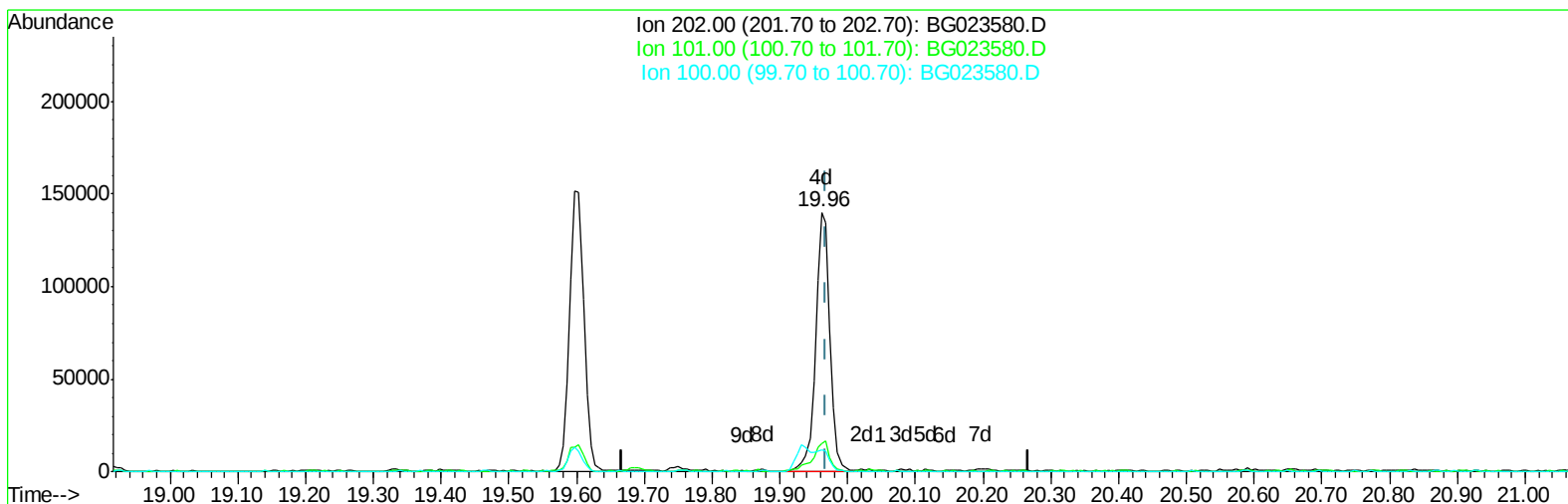
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

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8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(77) Pyrene

19.962min (-0.006) 2.50ng/ul m

response 208764

Ion	Exp%	Act%
202.00	100	100
101.00	15.60	10.75#
100.00	12.80	8.47#
0.00	0.00	0.00

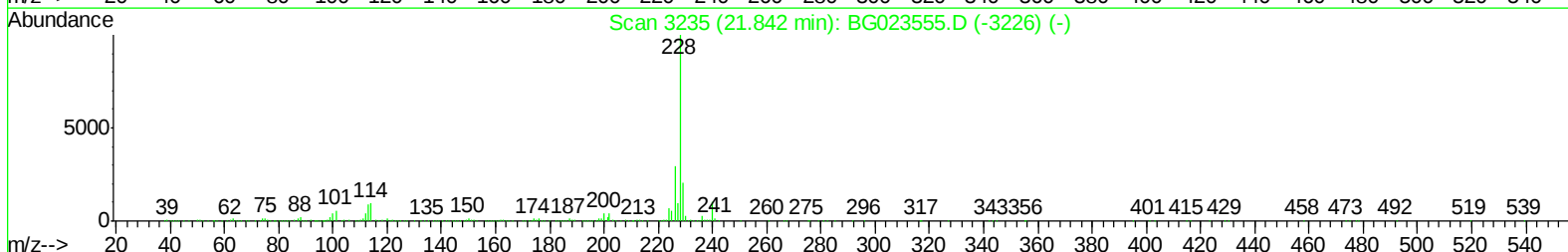
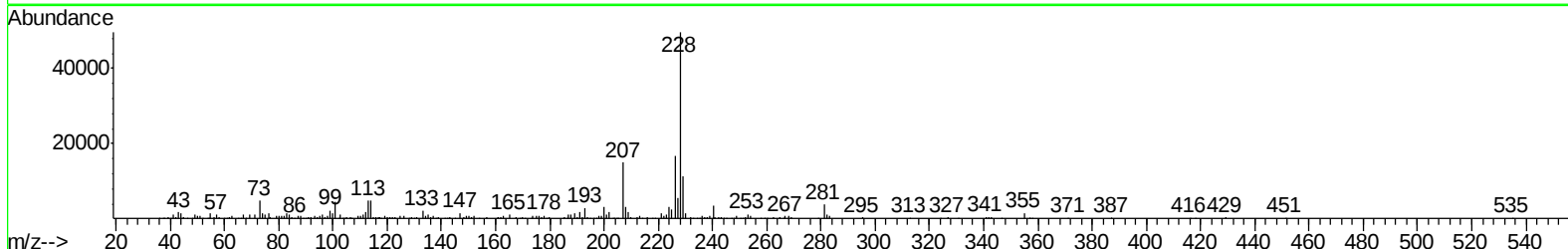
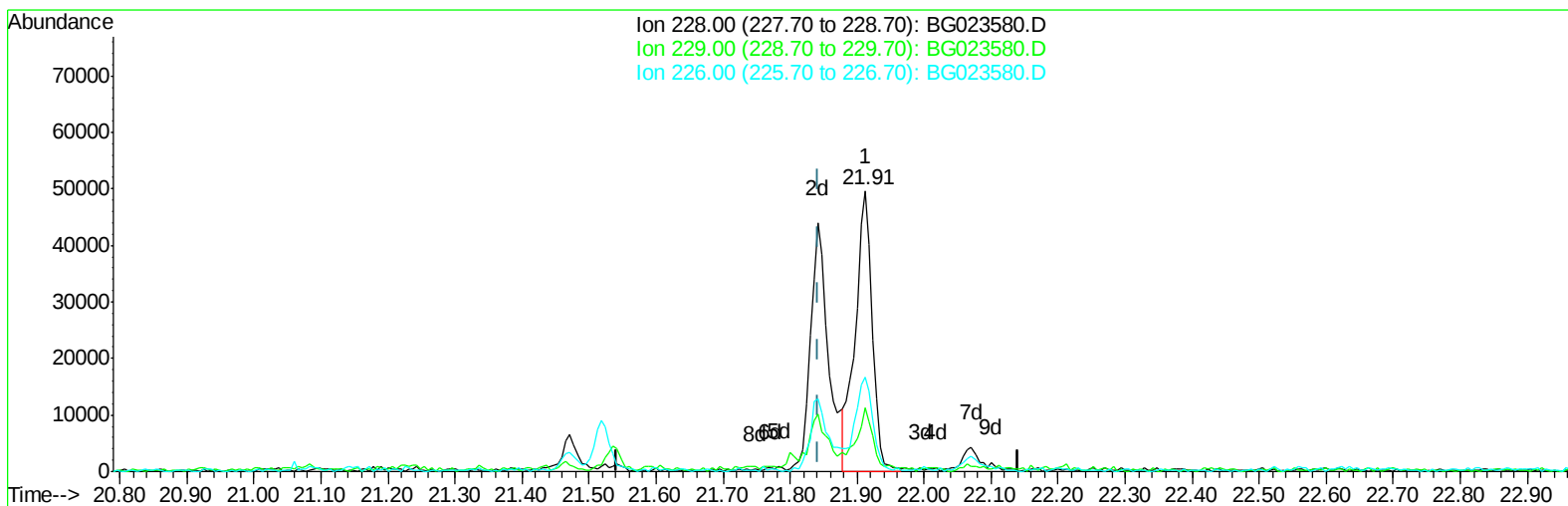
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

sohil
8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(80) Benzo(a)anthracene
21.912min (+0.070) 1.19ng/ul
response 90231

Ion	Exp%	Act%
228.00	100	100
229.00	19.30	22.84
226.00	28.50	33.53
0.00	0.00	0.00

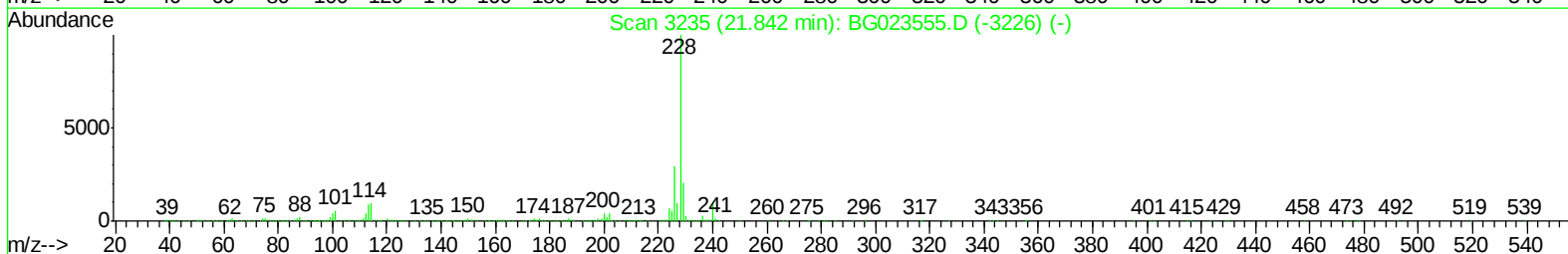
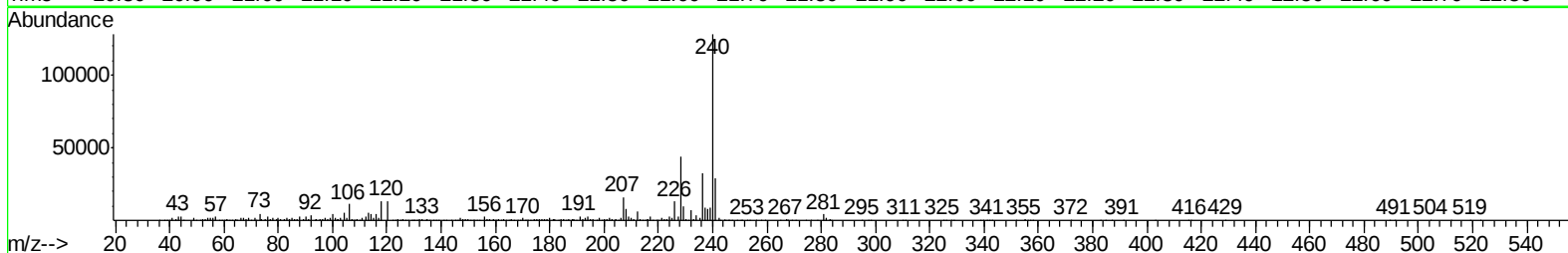
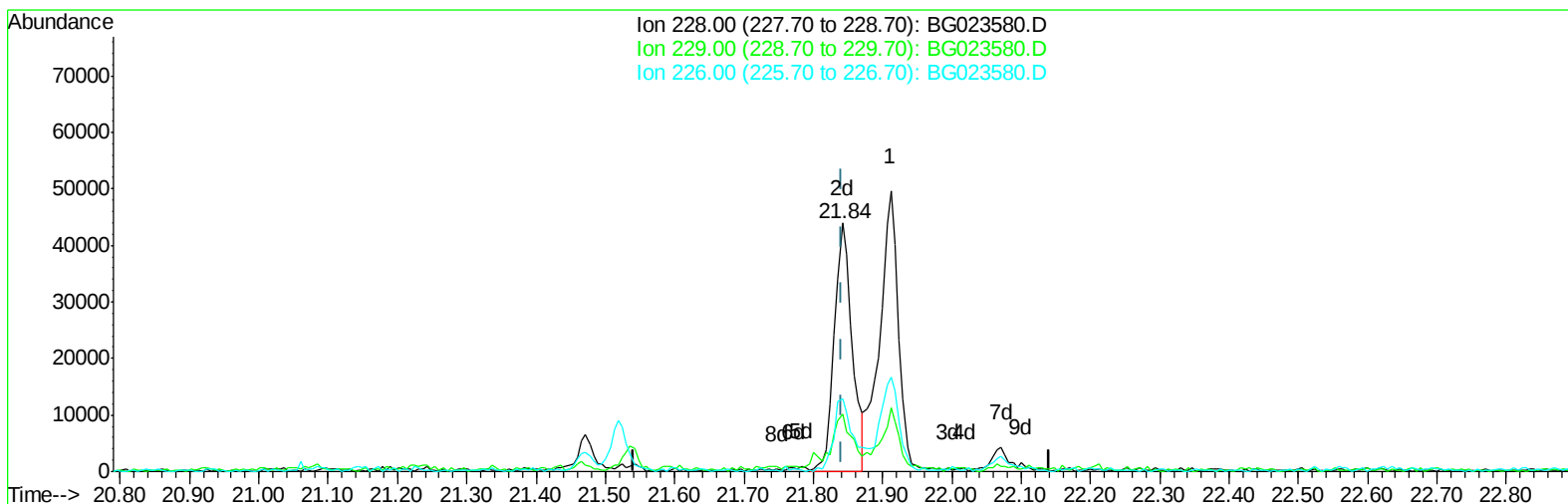
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
APPROVED

sohil
8/10/2016 6:51:46 PM

Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(80) Benzo(a)anthracene
21.842min (-0.000) 1.05ng/ul m
response 79391

Ion	Exp%	Act%
228.00	100	100
229.00	19.30	23.28#
226.00	28.50	29.54
0.00	0.00	0.00

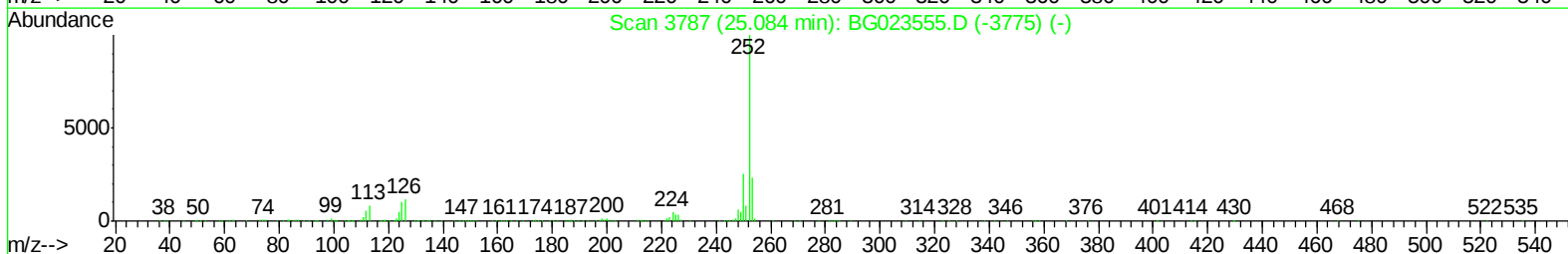
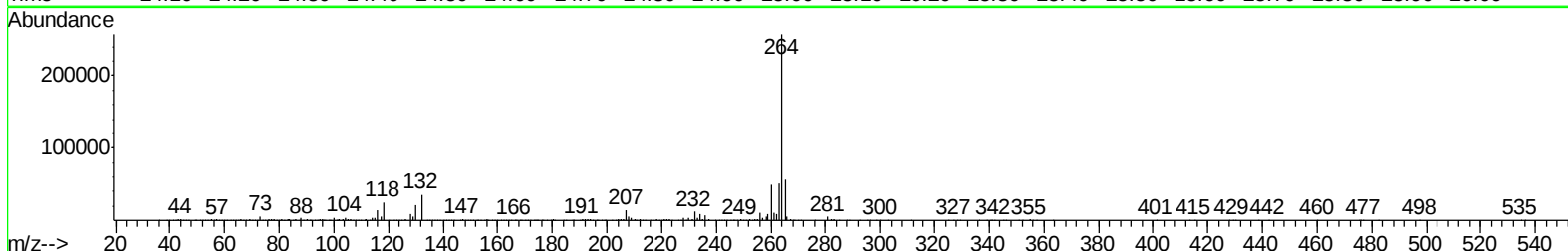
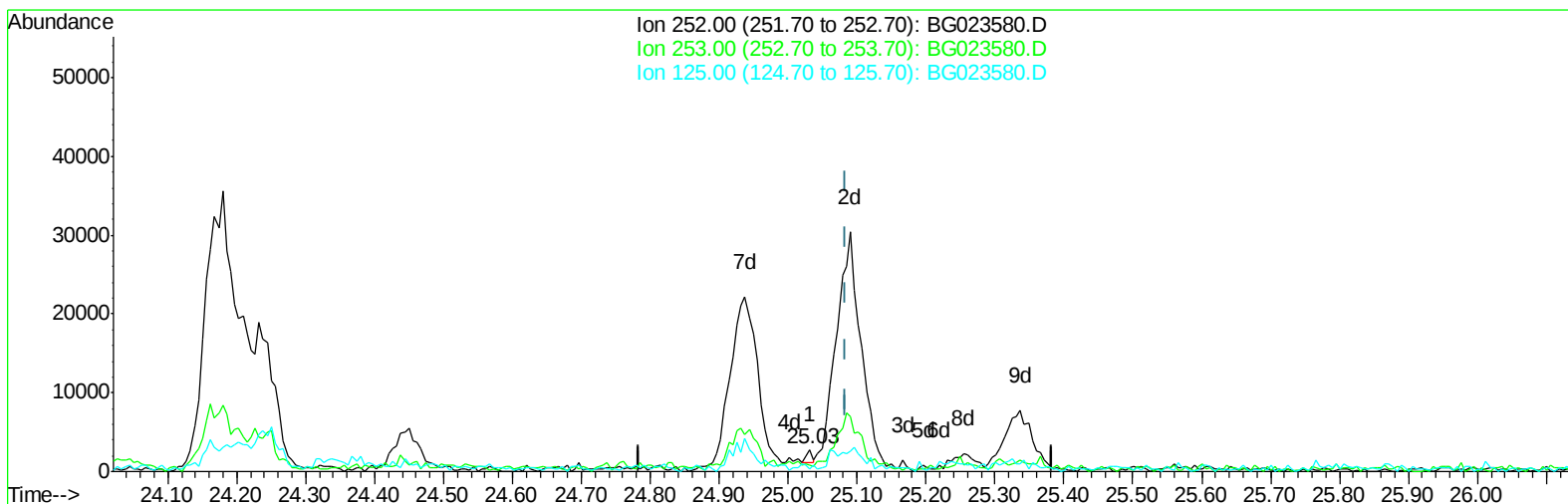
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration

Manual Integrations
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TIC: BG023580.D

(88) Benzo(a)pyrene (C)

25.031min (-0.053) 0.02ng/ul

response 1073

Ion	Exp%	Act%
252.00	100	100
253.00	23.70	26.88
125.00	15.00	12.21
0.00	0.00	0.00

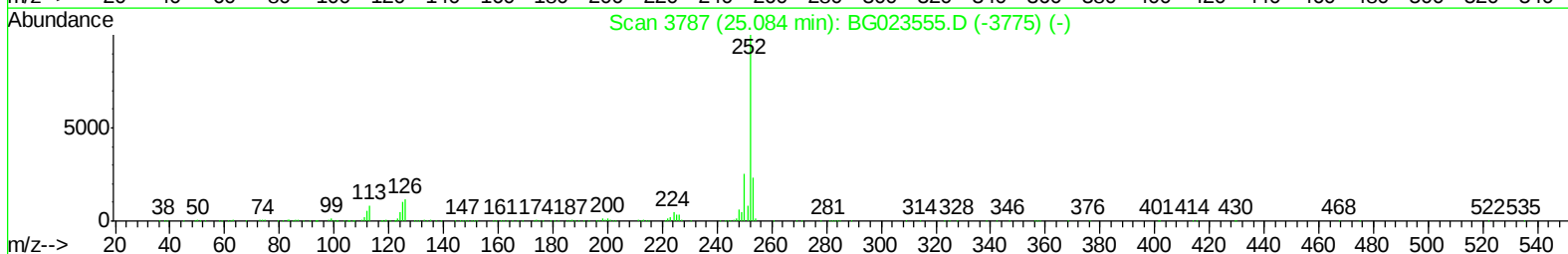
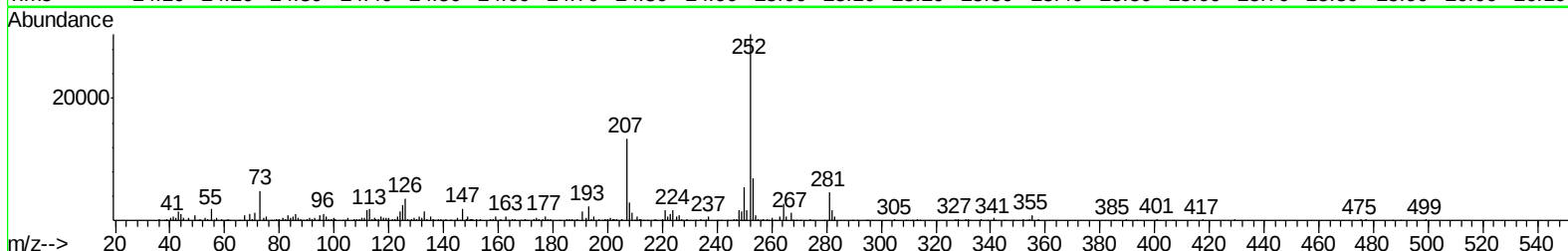
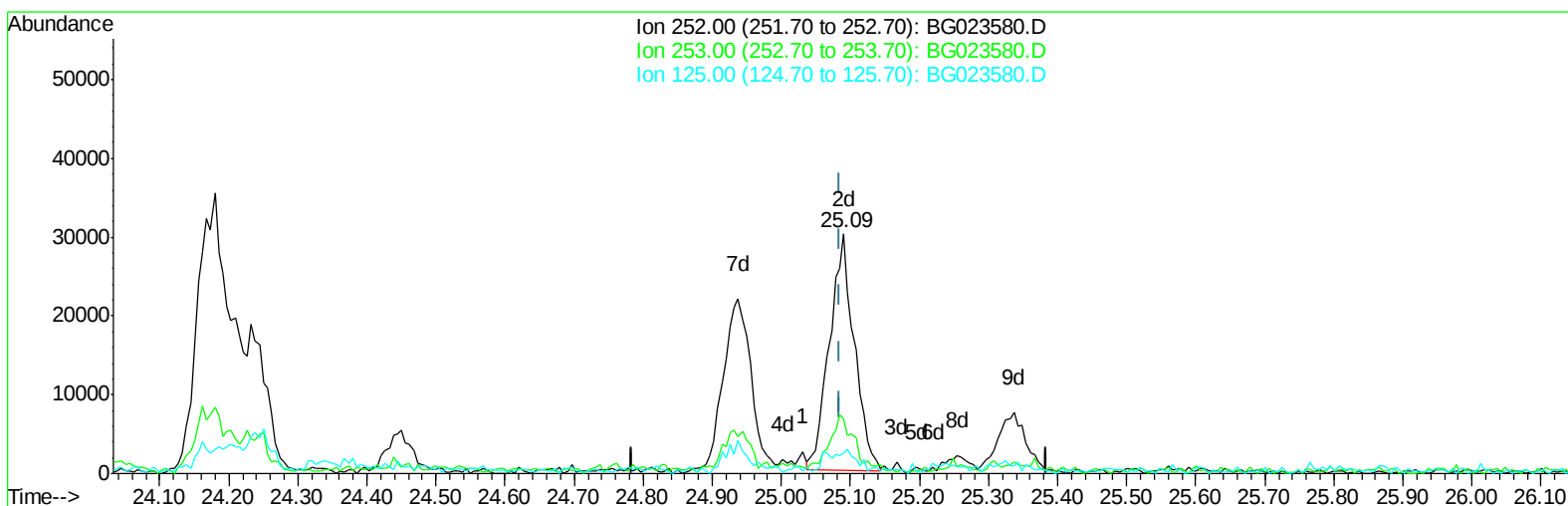
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
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Quant Time: Aug 10 06:56:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
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TIC: BG023580.D

(88) Benzo(a)pyrene (C)

25.090min (+0.006) 1.05ng/ul m

response 75042

Ion	Exp%	Act%
252.00	100	100
253.00	23.70	22.94
125.00	15.00	8.75#
0.00	0.00	0.00

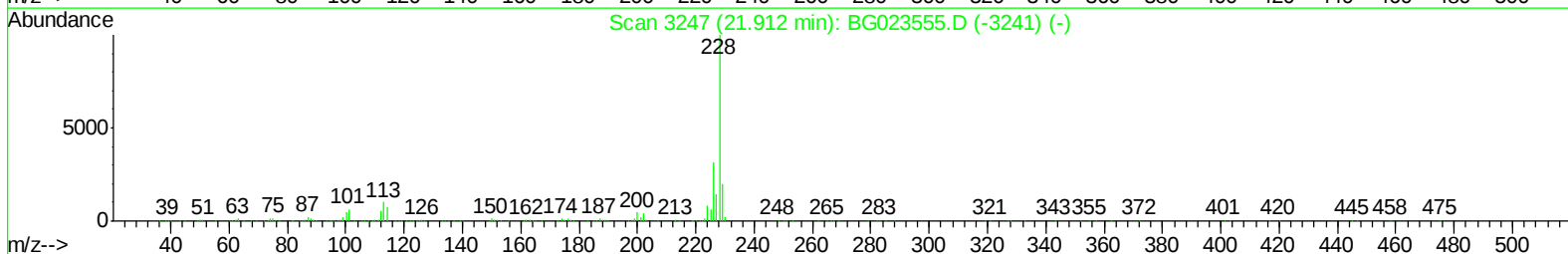
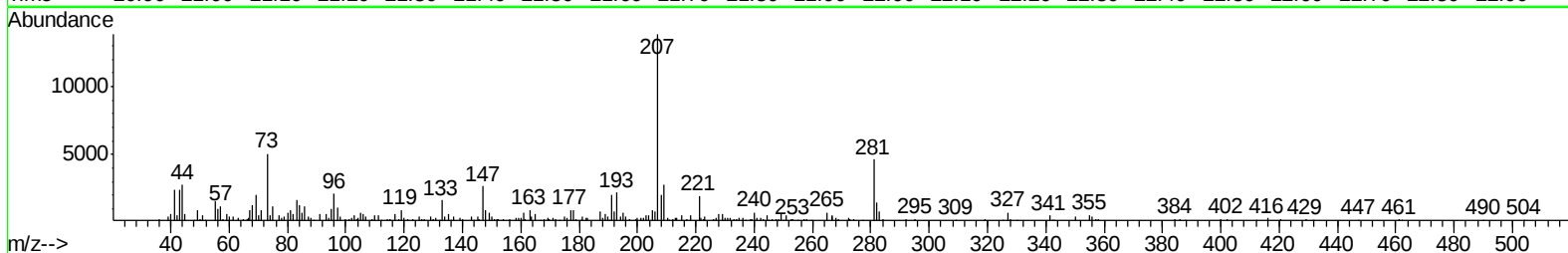
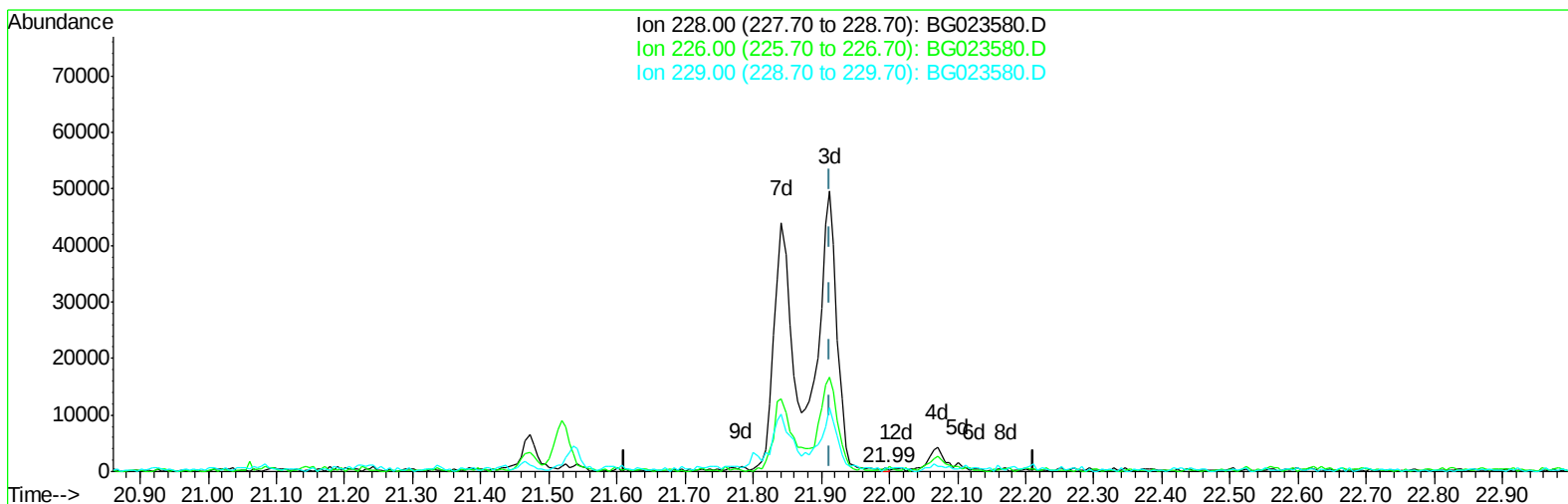
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0002-01

Manual Integrations
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Quant Time: Aug 10 06:57:26 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration



TIC: BG023580.D

(82) Chrysene

21.994min (+0.082) 0.00ng/ul

response 263

Ion	Exp%	Act%
228.00	100	100
226.00	30.30	38.62#
229.00	18.80	103.77#
0.00	0.00	0.00

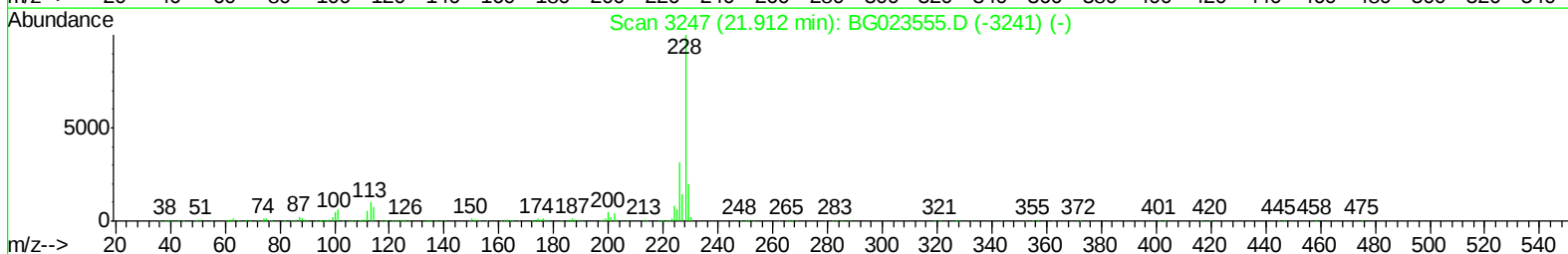
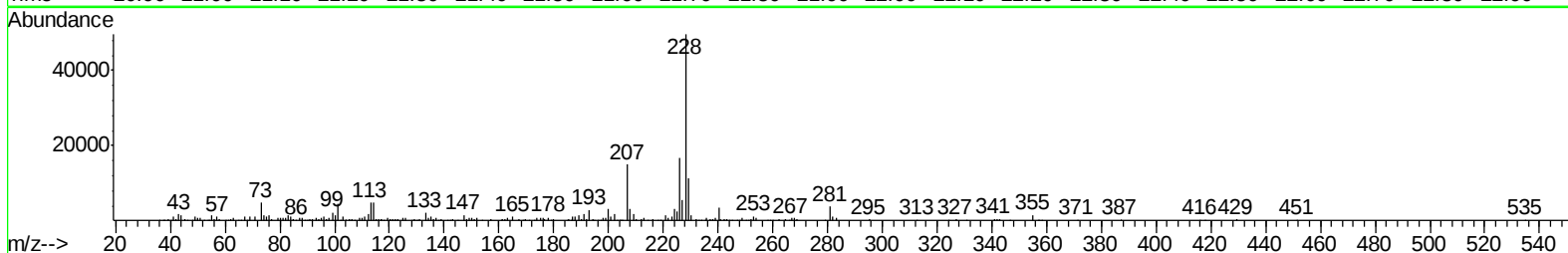
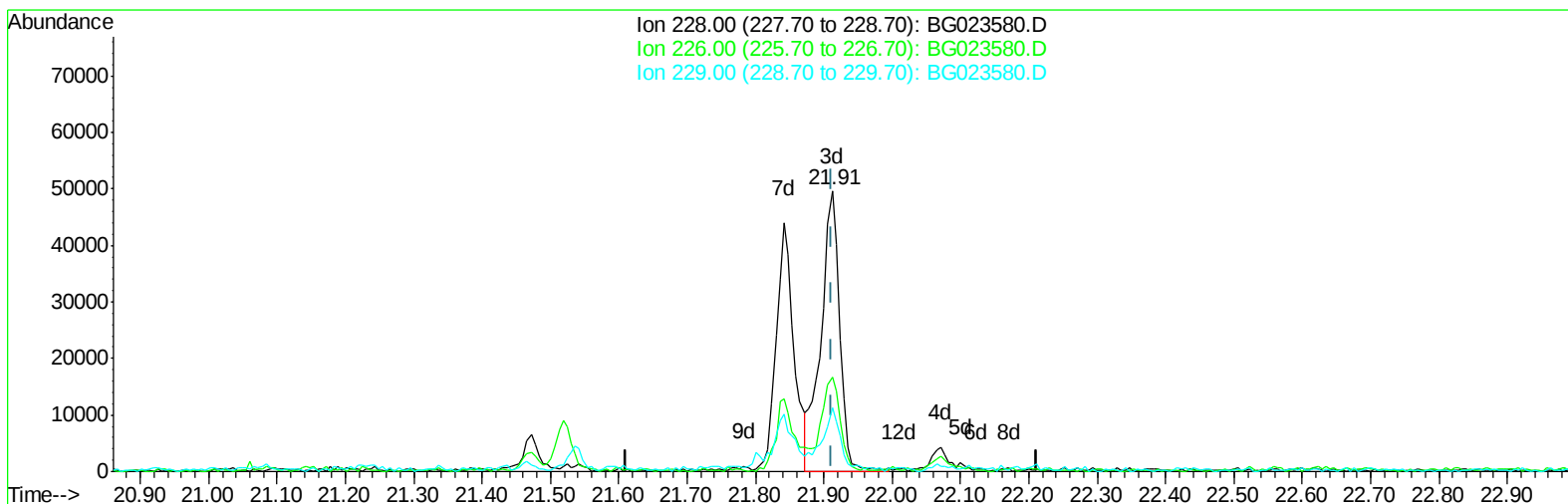
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
Data File : BG023580.D
Acq On : 10 Aug 2016 6:19
Operator : UM/SJ
Sample : H4362-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
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Manual Integrations
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Quant Time: Aug 10 06:57:26 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
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QLast Update : Wed Aug 10 05:01:49 2016
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TIC: BG023580.D

(82) Chrysene

21.912min (-0.000) 1.38ng/ul m

response 95076

Ion	Exp%	Act%
228.00	100	100
226.00	30.30	33.53
229.00	18.80	22.84#
0.00	0.00	0.00

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 Sample : H4362-12
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PR001-SS006-0002-01

Manual Integrations
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Quant Time: Aug 10 06:59:13 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 10 05:01:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	152088	20.00	ng/ul	-0.02
18) Naphthalene-d8	10.94	136	729851	20.00	ng/ul	-0.02
35) Acenaphthene-d10	14.78	164	532375	20.00	ng/ul	-0.01
61) Phenanthrene-d10	17.54	188	1336626m	20.00	ng/ul	-0.01
75) Chrysene-d12	21.87	240	1348556m	20.00	ng/ul	0.00
83) Perylene-d12	25.25	264	1301718	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.48	96	4238	1.18	ng/uL	0.00
5) Phenol-d5	7.27	99	212814	13.89	ng/ul	-0.02
7) Bis-(2-Chloroethyl)ether-d	7.43	67	151015	15.38	ng/ul	-0.02
9) 2-Chlorophenol-d4	7.64	132	152254	14.57	ng/ul	-0.03
13) 4-Methylphenol-d8	8.82	113	138441	11.57	ng/ul	-0.02
19) Nitrobenzene-d5	9.29	128	88200	15.33	ng/ul	-0.02
22) 2-Nitrophenol-d4	10.02	143	99634	15.08	ng/ul	-0.02
26) 2,4-Dichlorophenol-d3	10.57	165	192749	15.47	ng/ul	-0.02
29) 4-Chloroaniline-d4	11.09	131	158991	10.87	ng/ul	-0.02
43) Dimethylphthalate-d6	14.18	166	707445	16.23	ng/ul	-0.01
46) Acenaphthylene-d8	14.48	160	805778	16.43	ng/ul	-0.01
51) 4-Nitrophenol-d4	15.00	143	104794	14.08	ng/ul	0.00
57) Fluorene-d10	15.78	176	666983	16.56	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.90	200	122599m	14.30	ng/ul	0.00
70) Anthracene-d10	17.64	188	1037790	17.23	ng/ul	-0.01
76) Pyrene-d10	19.94	212	1189285m	17.42	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.01	264	1014695	17.22	ng/ul	0.00

Target Compounds

						Qvalue
44) Dimethylphthalate	14.22	163	573503	13.29	ng/ul	99
69) Phenanthrene	17.59	178	88543	1.28	ng/ul	97
74) Fluoranthene	19.60	202	221581m	3.13	ng/ul	
77) Pyrene	19.96	202	208764m	2.50	ng/ul	
80) Benzo(a)anthracene	21.84	228	79391m	1.05	ng/ul	
82) Chrysene	21.91	228	95076m	1.38	ng/ul	
85) Benzo(b)fluoranthene	24.18	252	123489	1.67	ng/ul#	94
88) Benzo(a)pyrene	25.09	252	75042m	1.05	ng/ul	

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

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Operator : UM/SJ
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Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
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