

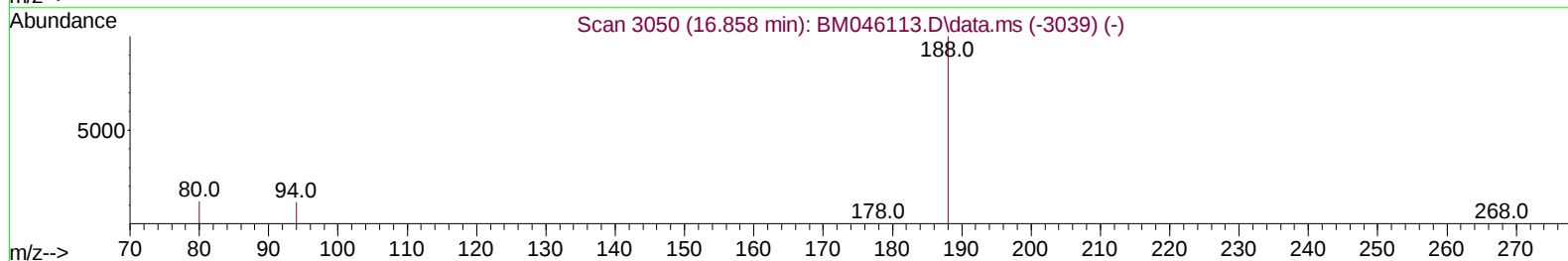
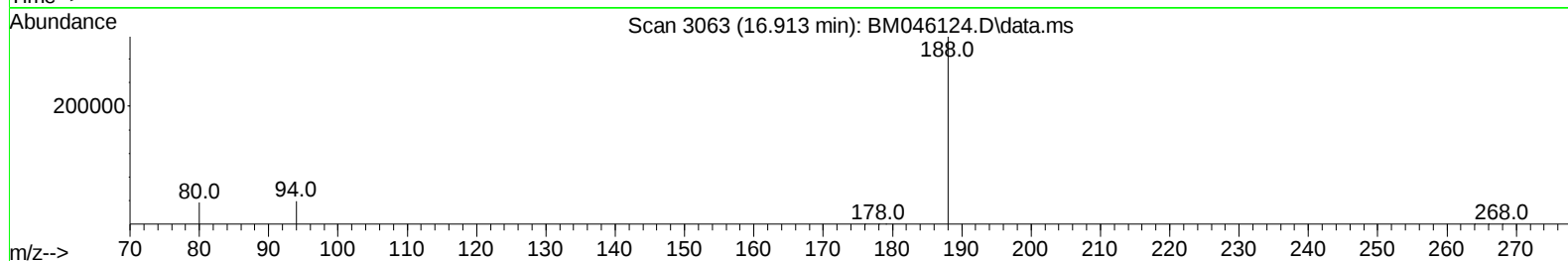
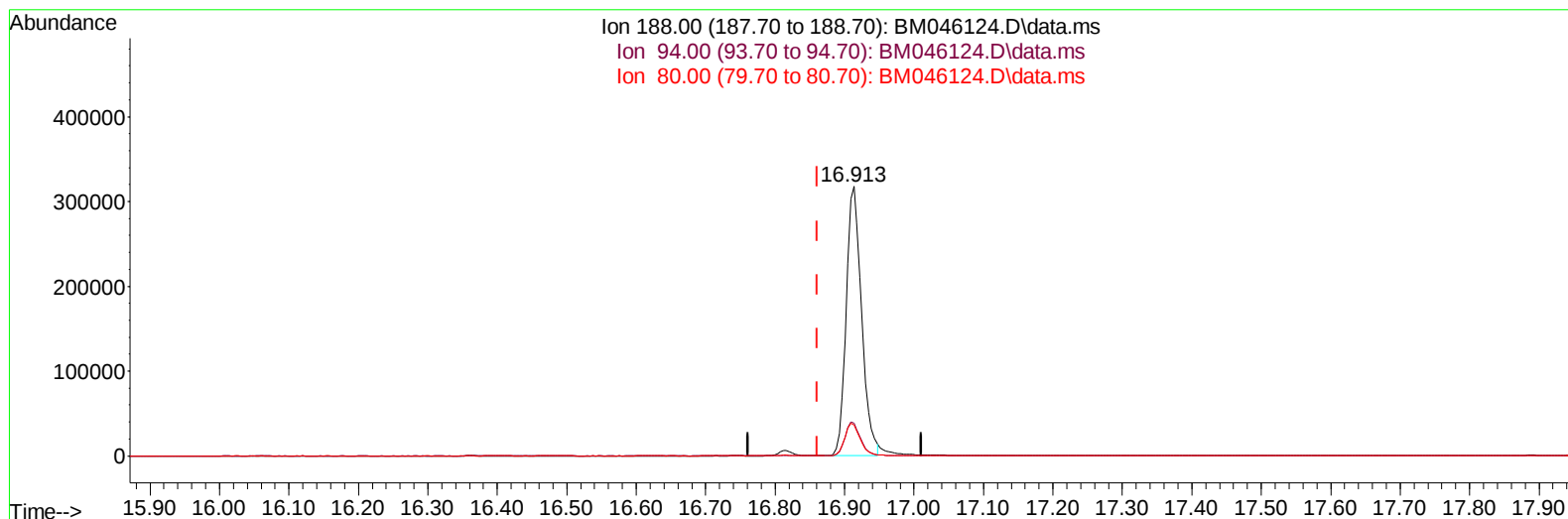
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(13) Phenanthrene-d10 (I)

16.913min (+ 0.052) 0.40 ng/u1

response 485962

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	13.80	12.10
80.00	15.20	11.49#
0.00	0.00	0.00

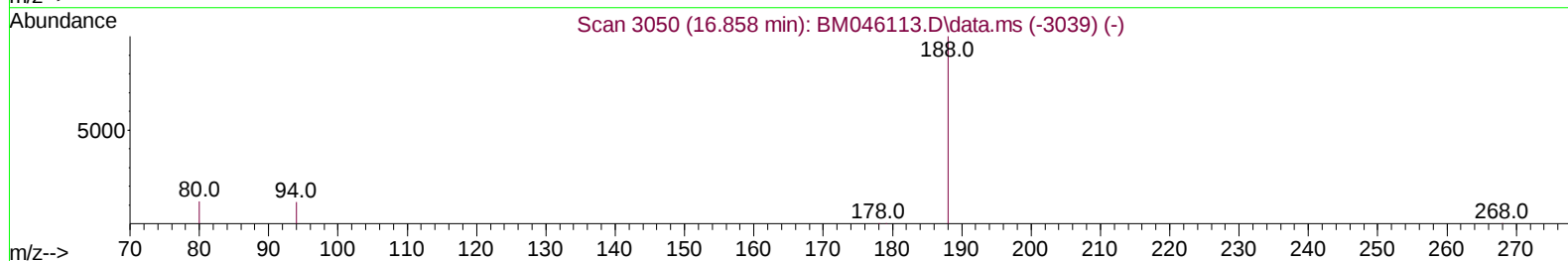
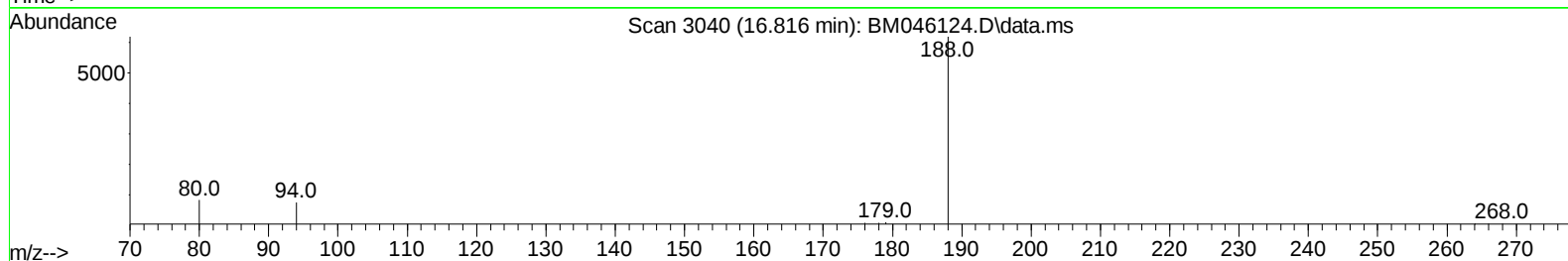
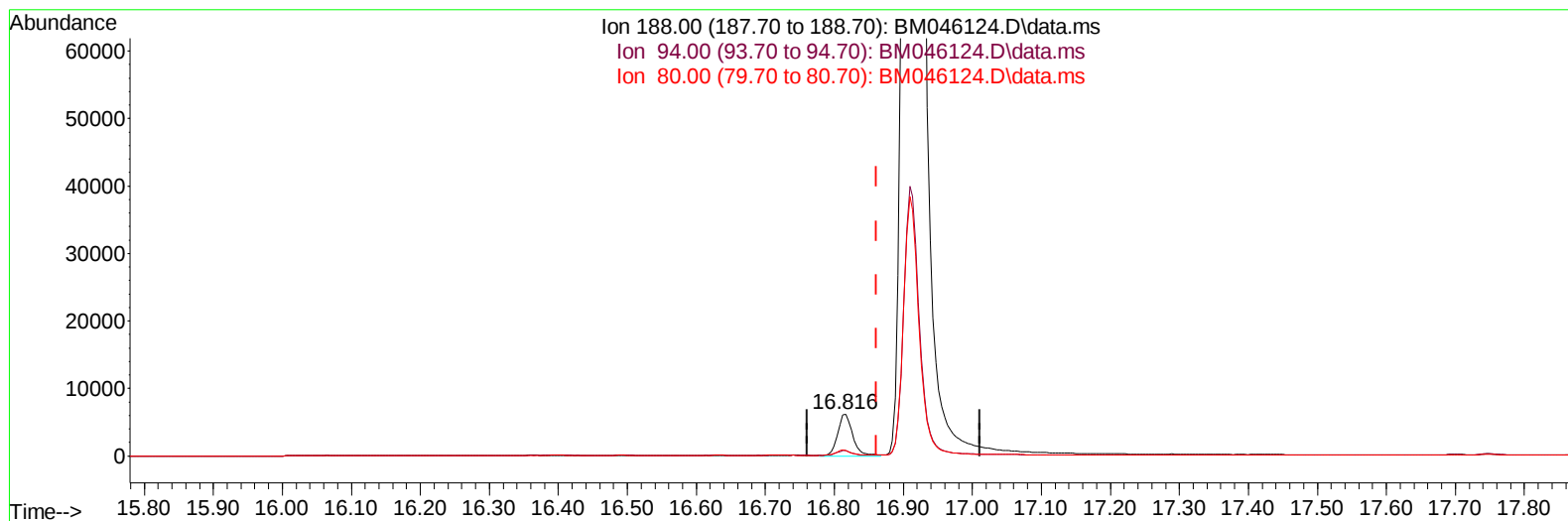
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(13) Phenanthrene-d10 (I)

16.816min (-0.045) 0.40 ng/u1 m

response 9477

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	13.80	12.37
80.00	15.20	13.56
0.00	0.00	0.00

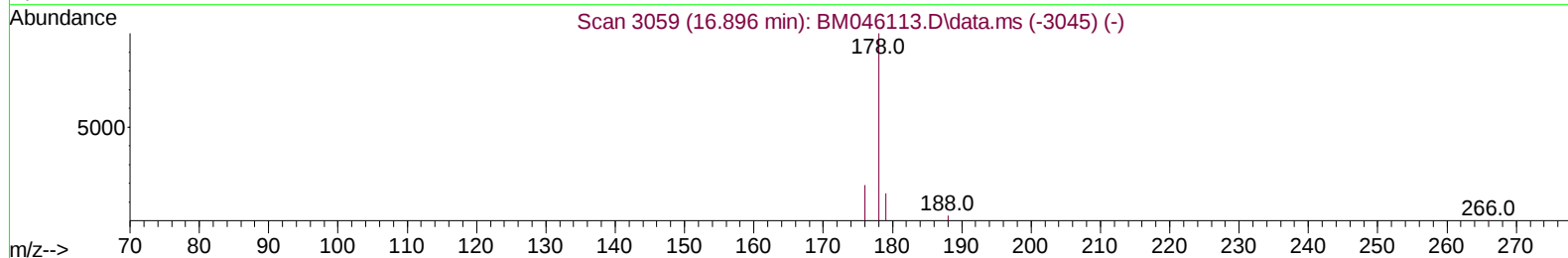
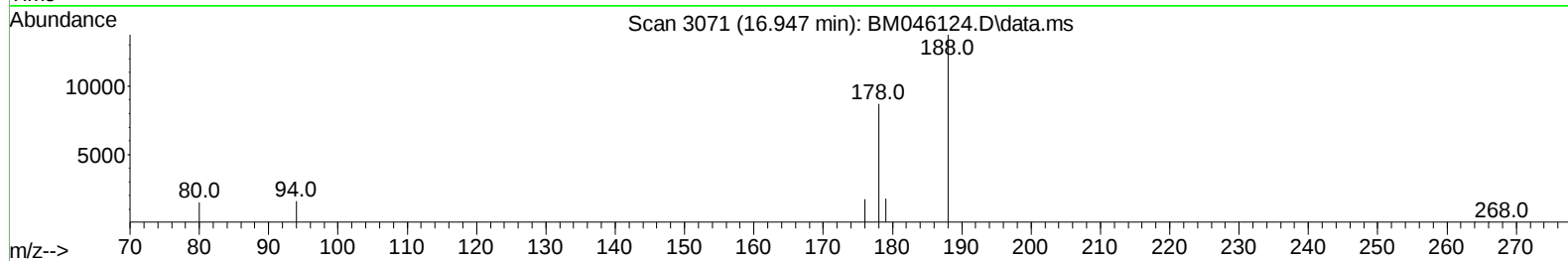
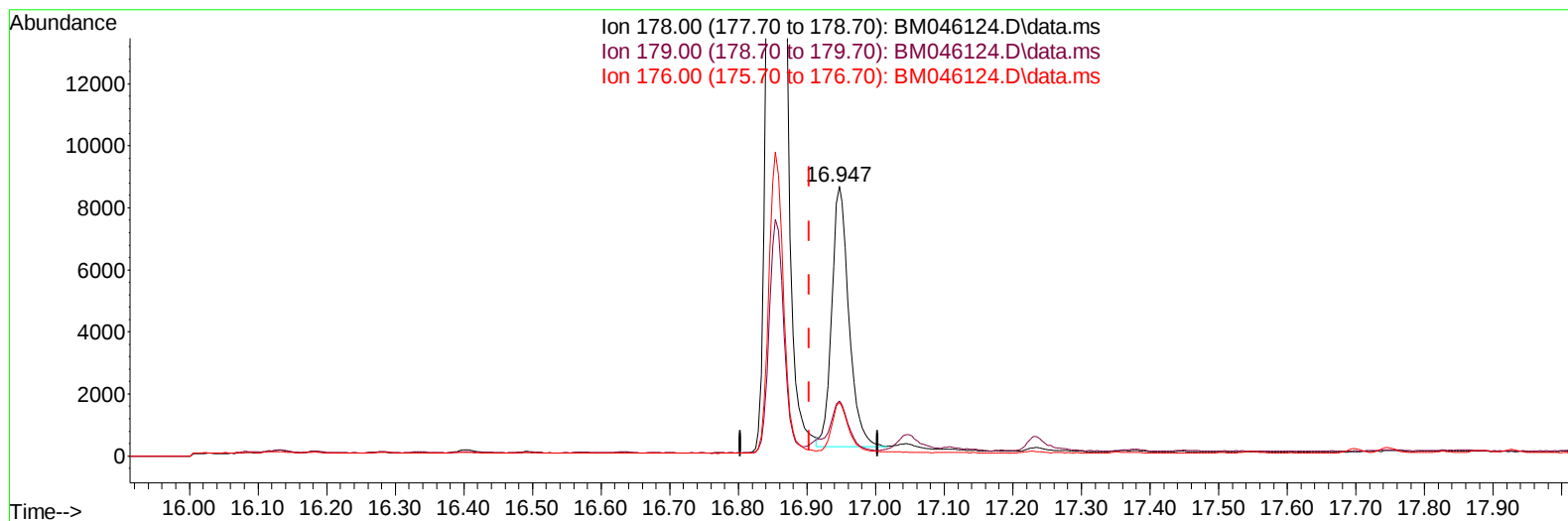
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(15) Phenanthrene

16.947min (+ 0.044) 0.55 ng/u1

response 14518

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	17.70	20.50
176.00	21.40	20.00
0.00	0.00	0.00

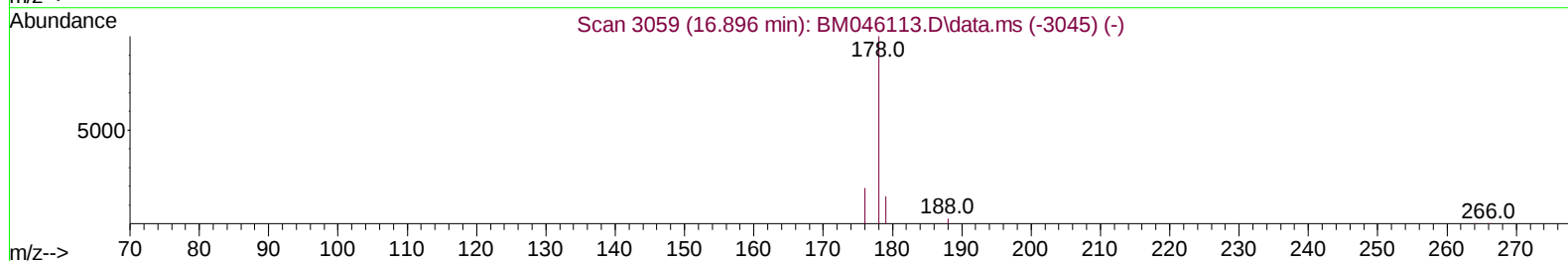
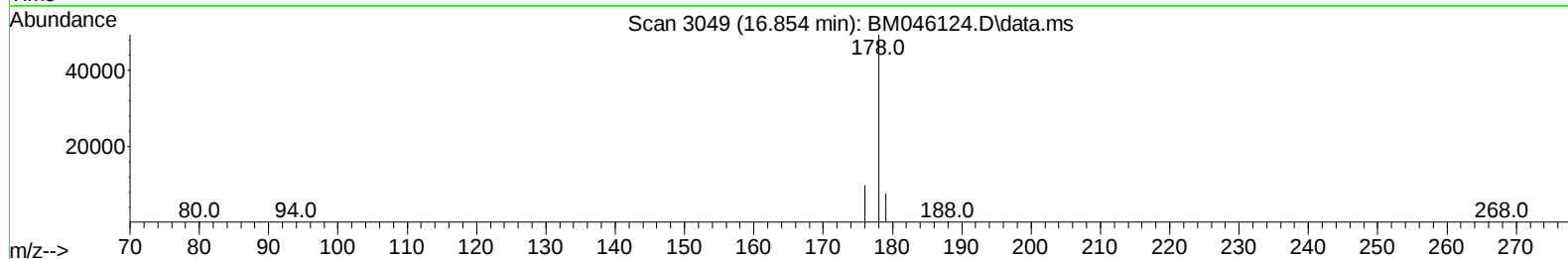
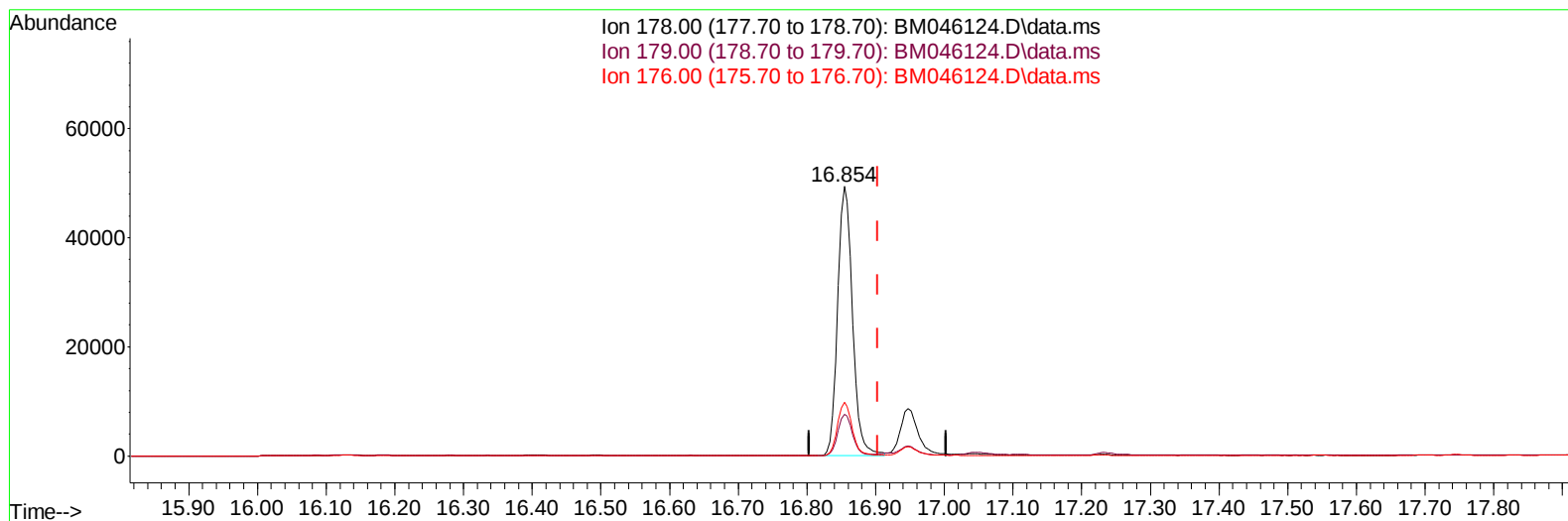
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(15) Phenanthrene

16.854min (-0.049) 2.78 ng/u1 m

response 73896

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	17.70	15.44
176.00	21.40	19.85
0.00	0.00	0.00

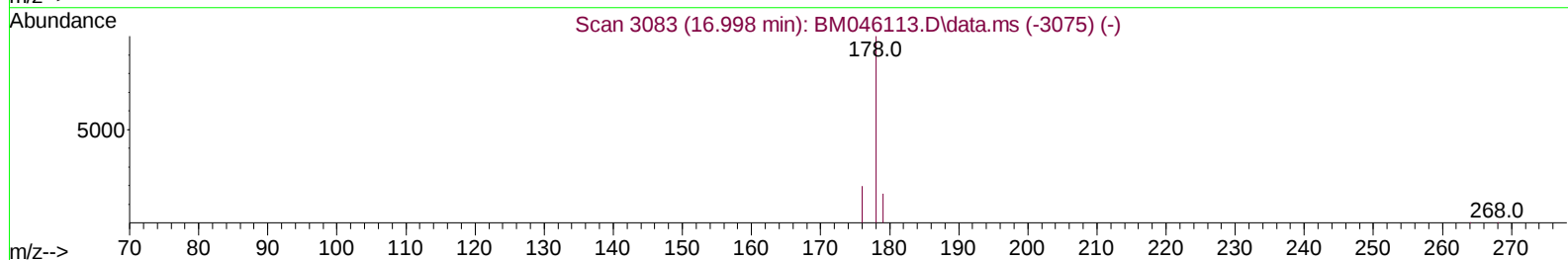
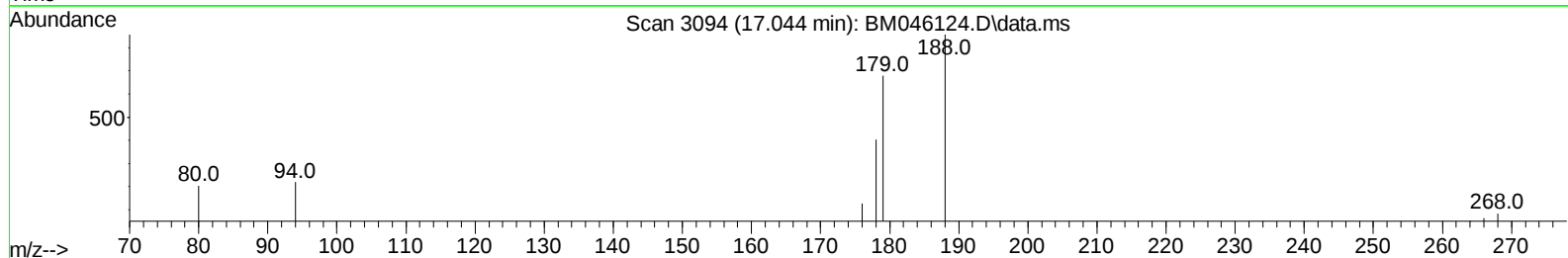
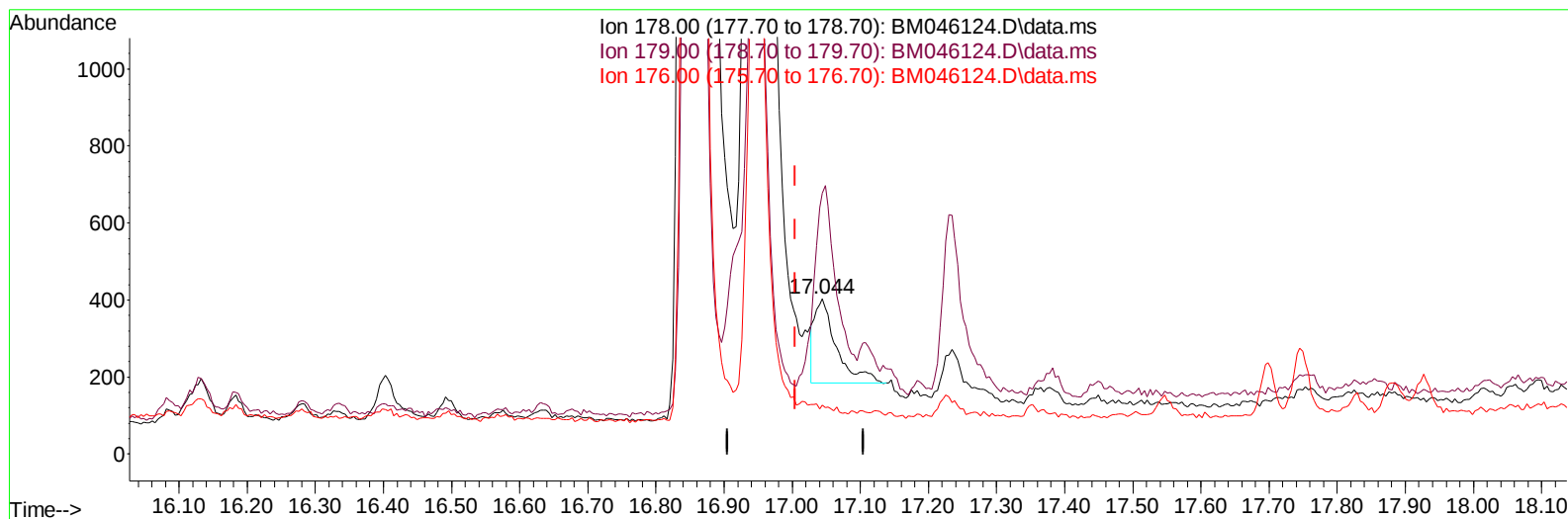
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(16) Anthracene

17.044min (+ 0.039) 0.02 ng/u1

response 491

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	18.60	167.82#
176.00	21.20	31.44#
0.00	0.00	0.00

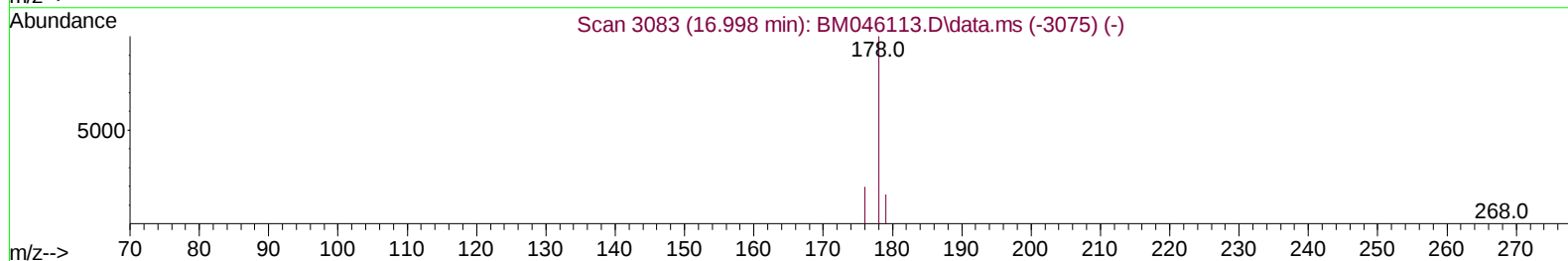
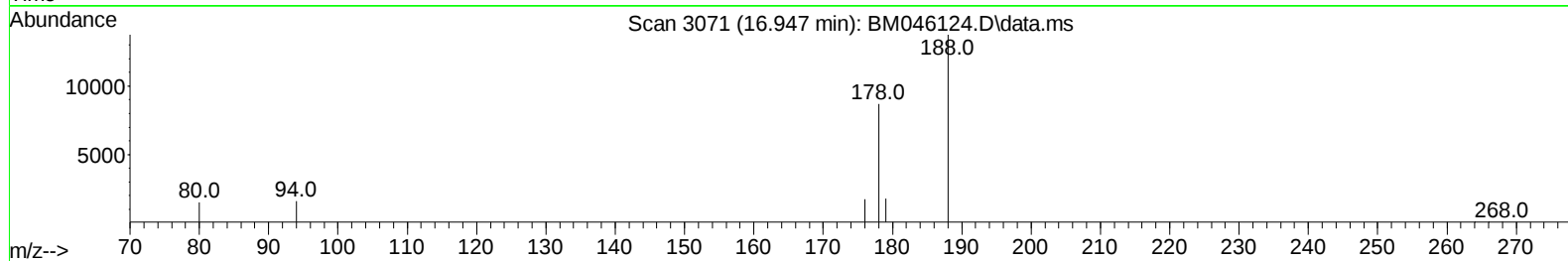
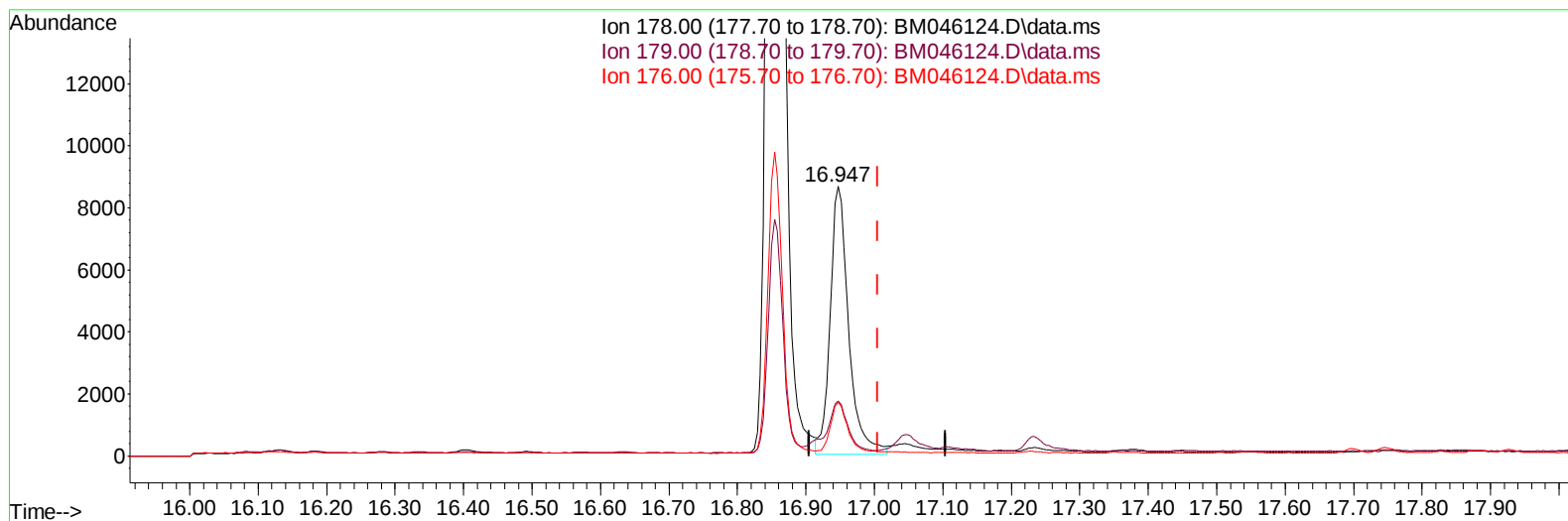
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(16) Anthracene

16.947min (-0.058) 0.81 ng/u1 m

response 16060

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	18.60	20.50
176.00	21.20	20.00
0.00	0.00	0.00

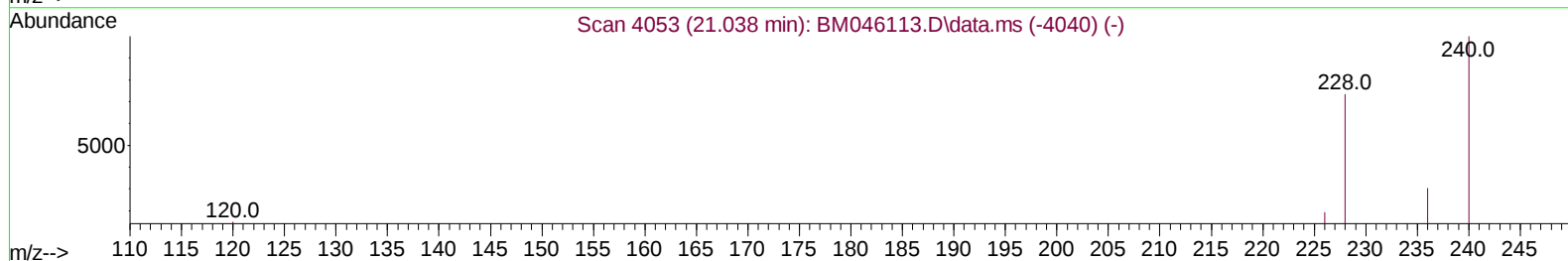
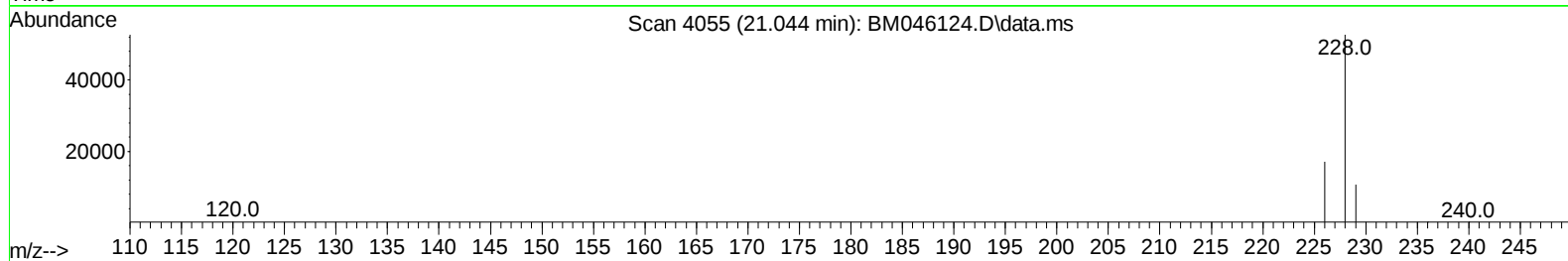
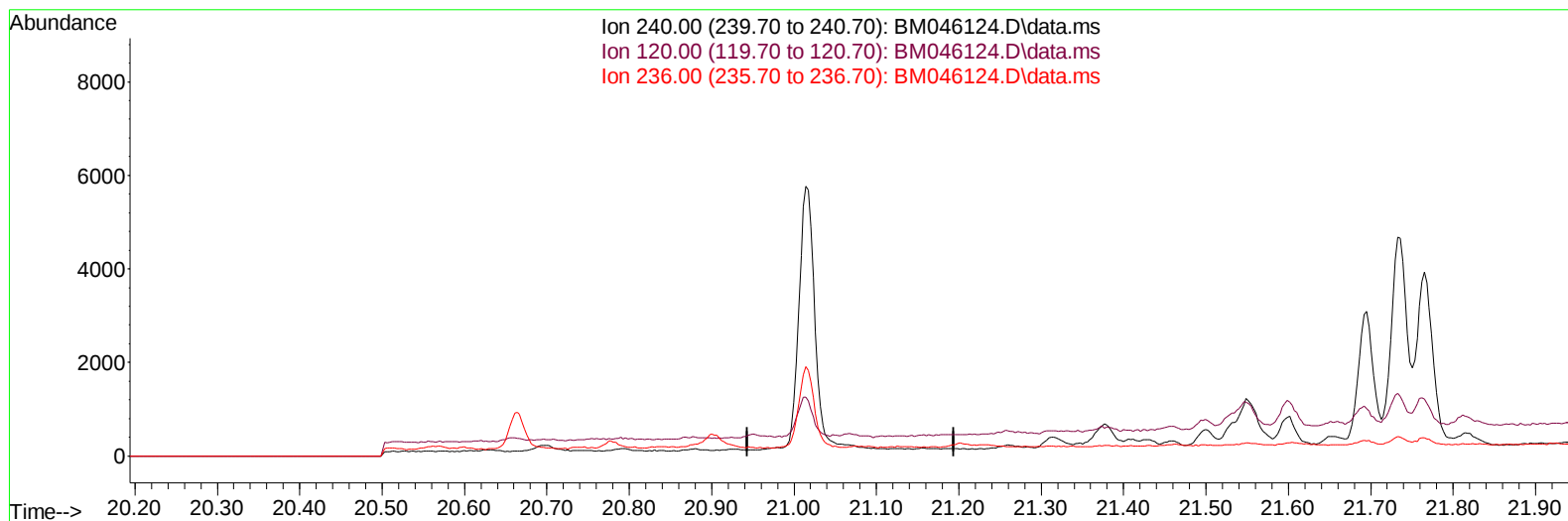
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(17) Chrysene-d12

21.044min (-21.044) 0.00 ng/u1

response 0

Ion	Exp%	Act%
240.00	100.00	0.00
120.00	23.50	0.00#
236.00	33.60	0.00#
0.00	0.00	0.00

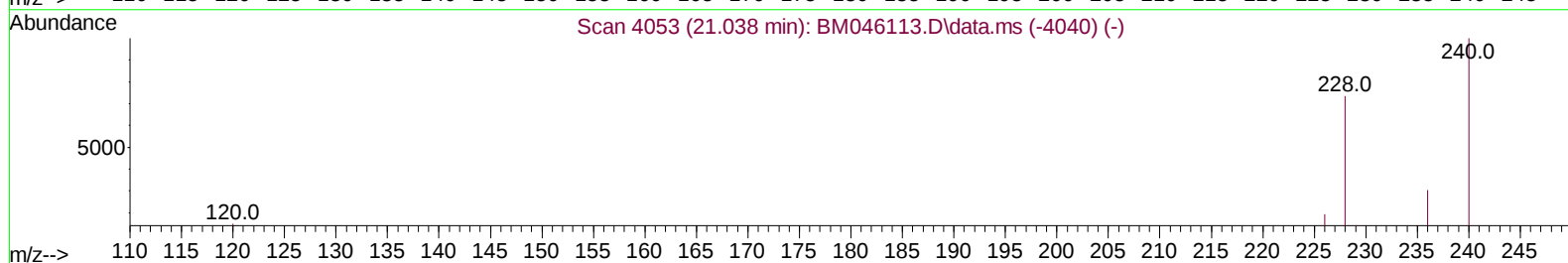
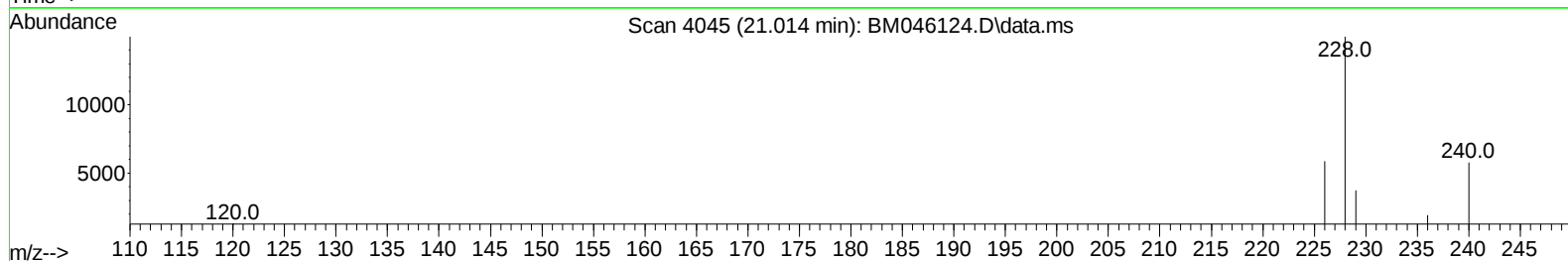
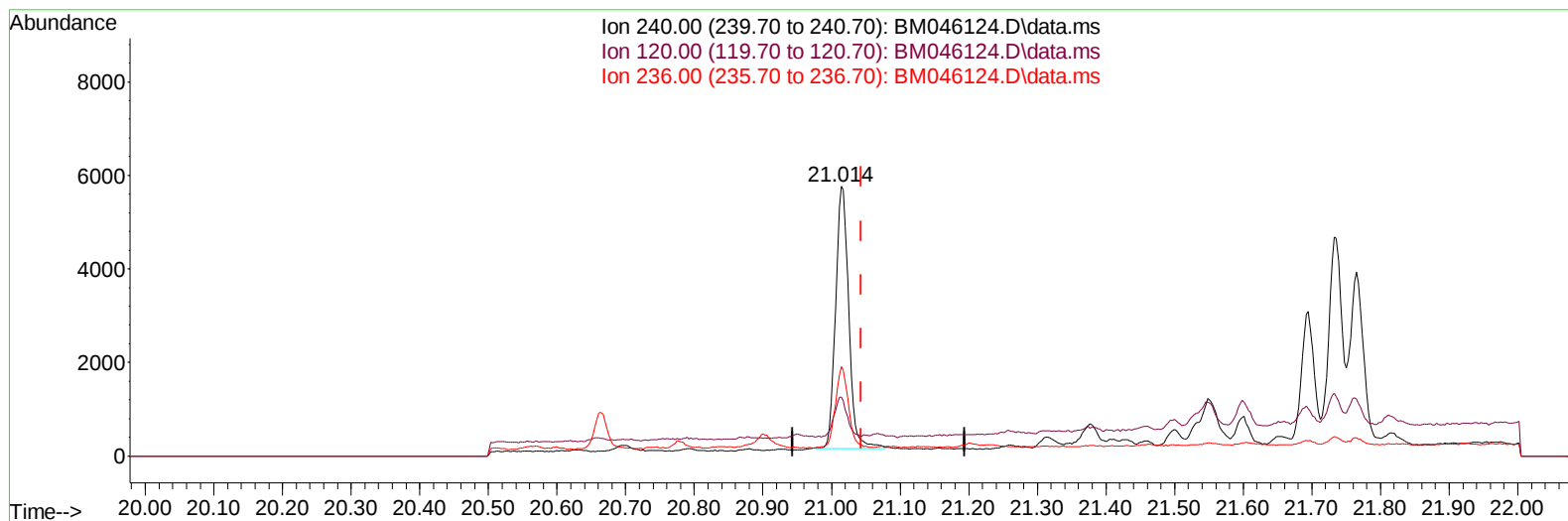
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(17) Chrysene-d12

21.014min (-0.030) 0.40 ng/u1 m

response 7452

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	23.50	21.92
236.00	33.60	33.18
0.00	0.00	0.00

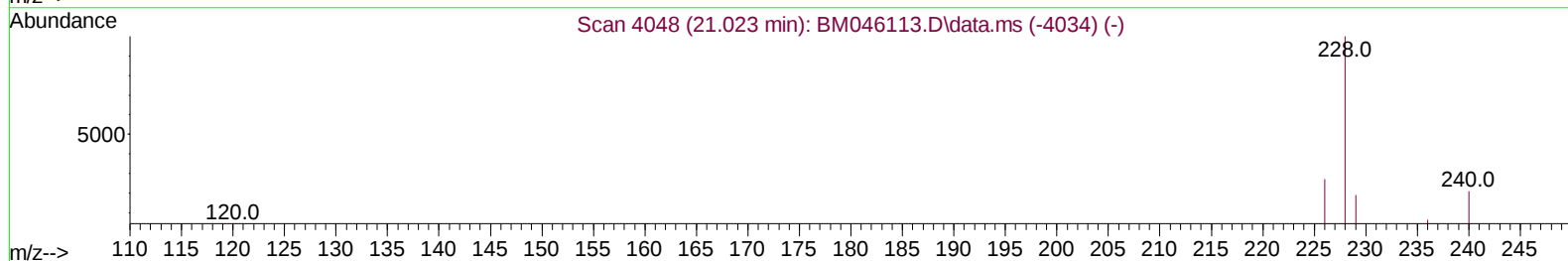
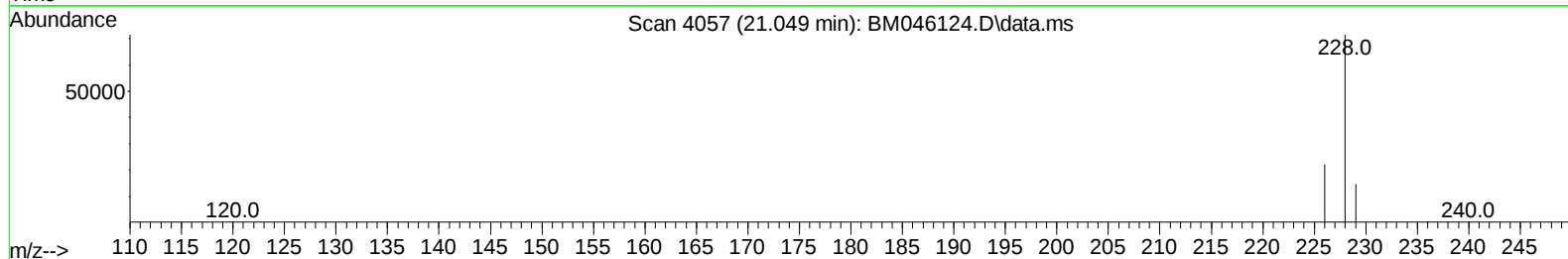
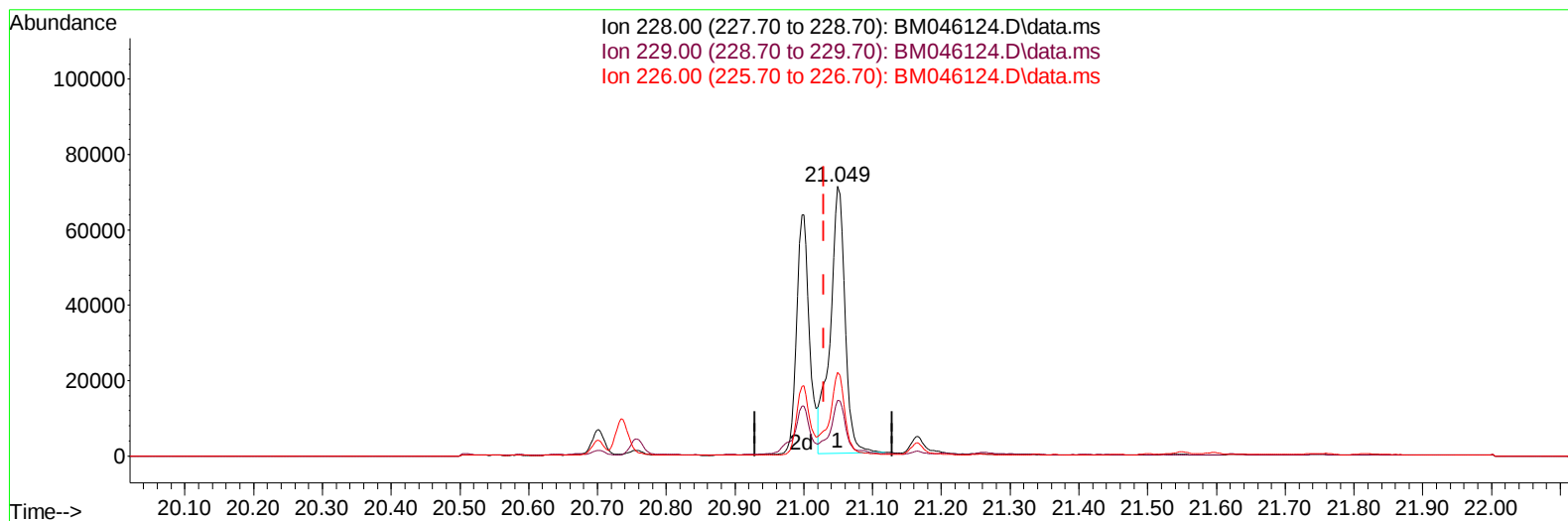
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(21) Benzo(a)anthracene

21.049min (+ 0.020) 3.70 ng/u1

response 106552

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	20.50	20.55
226.00	29.30	31.13
0.00	0.00	0.00

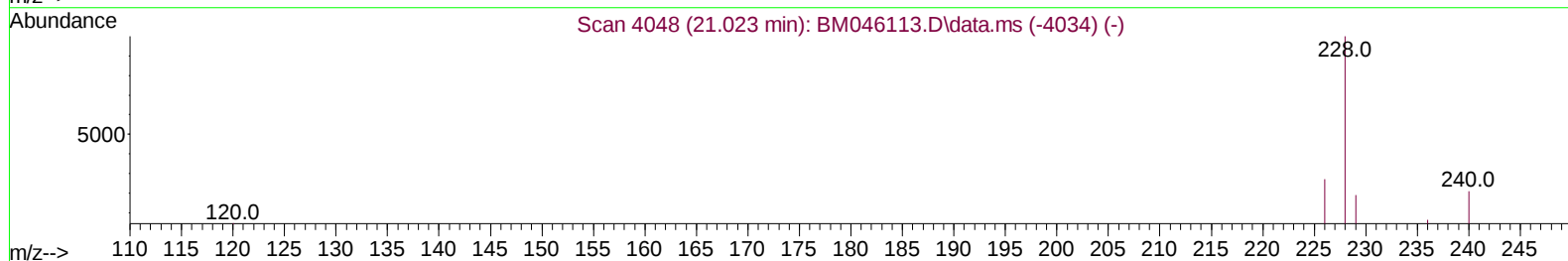
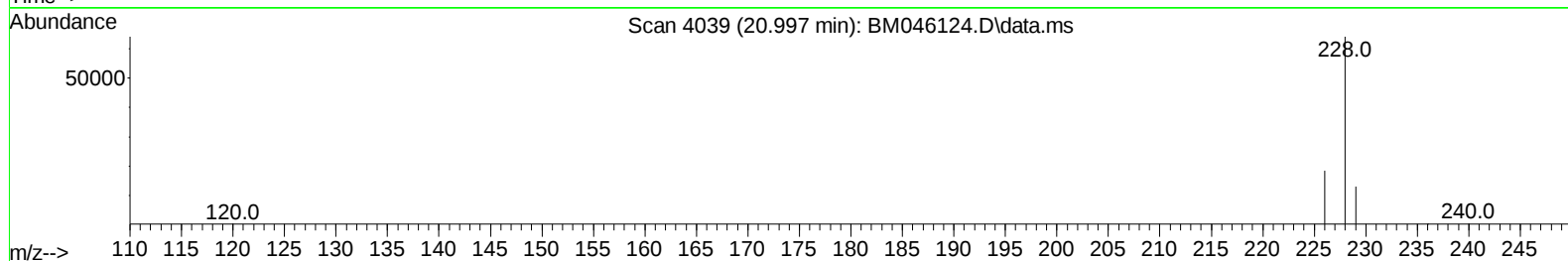
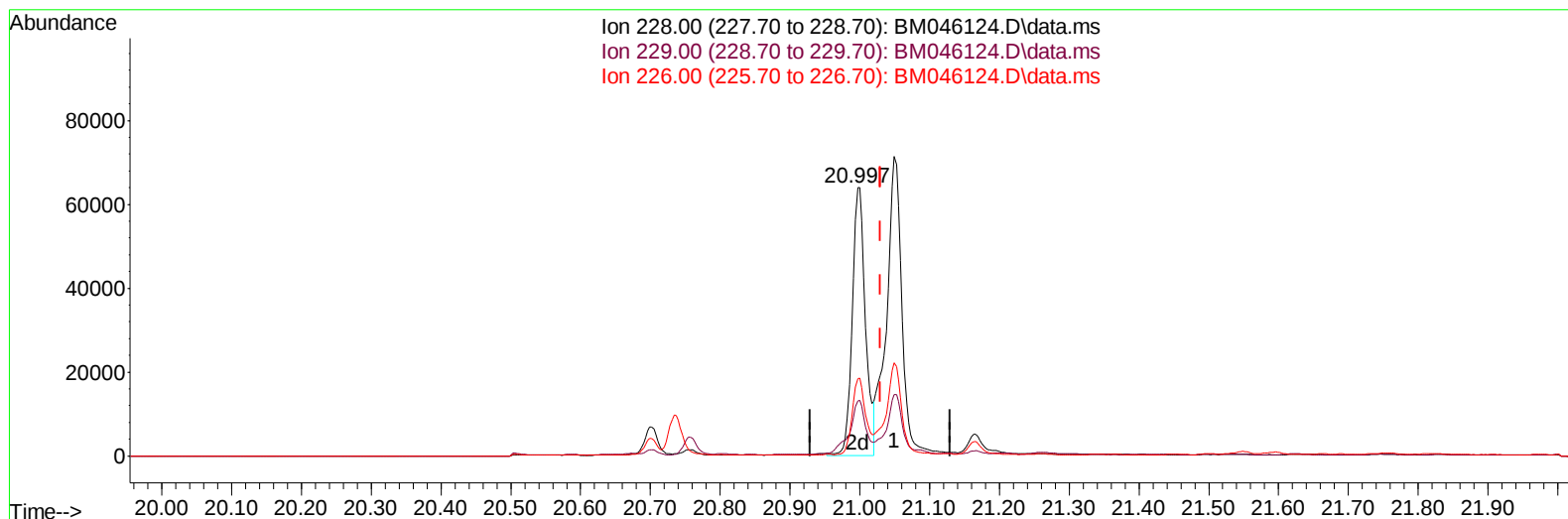
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(21) Benzo(a)anthracene

20.997min (-0.032) 2.92 ng/u1 m

response 83990

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	20.50	20.56
226.00	29.30	28.76
0.00	0.00	0.00

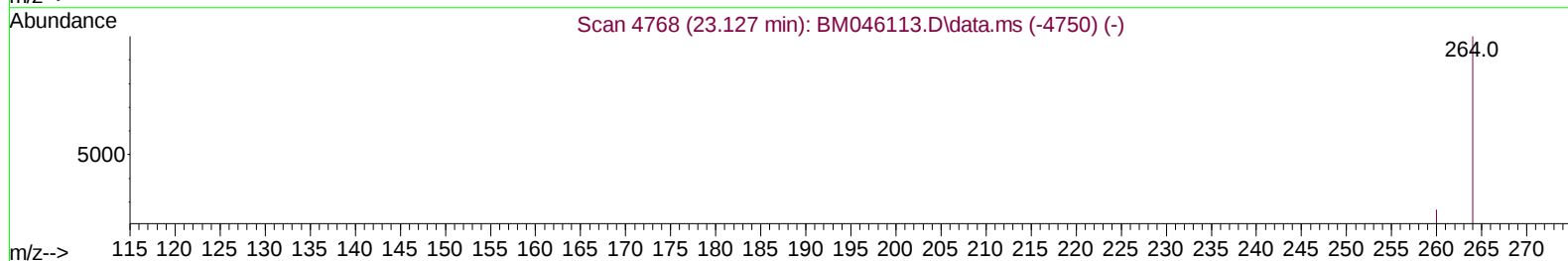
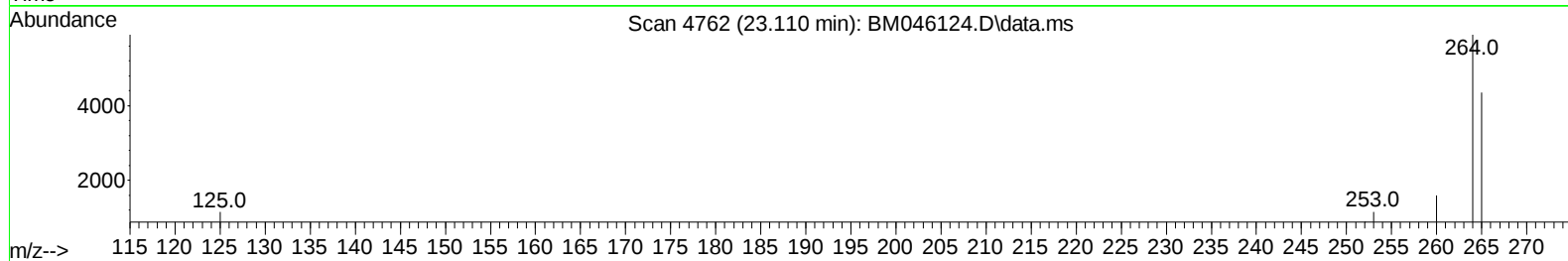
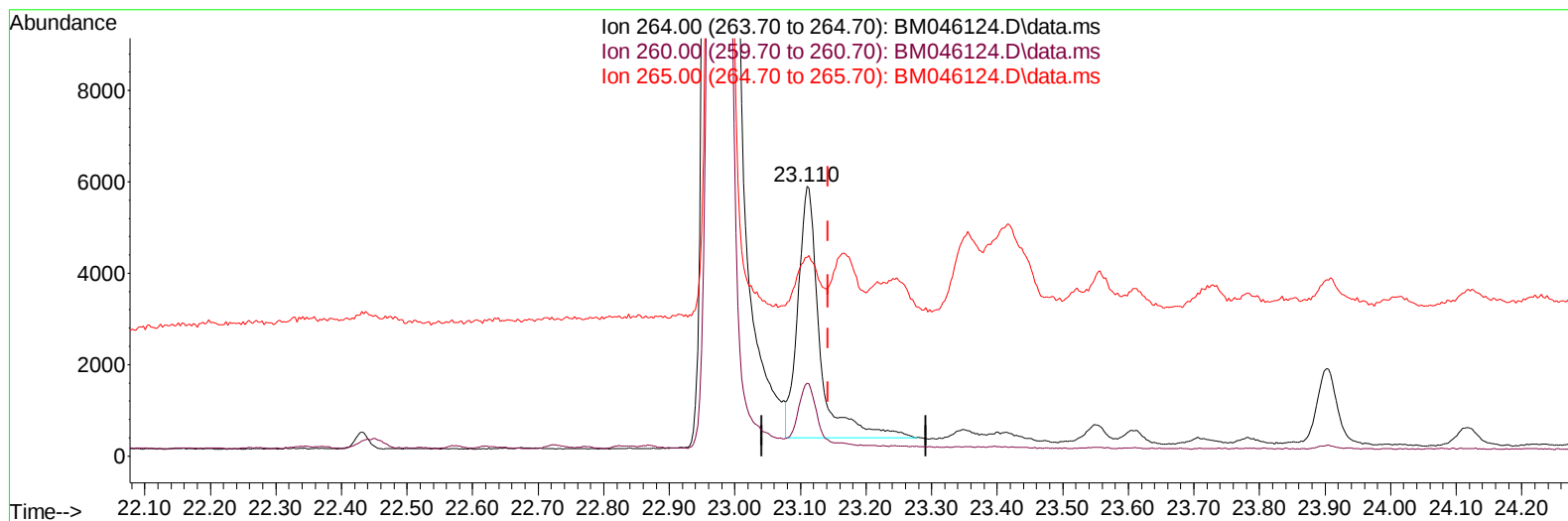
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(23) Perylene-d12 (I)

23.110min (-0.033) 0.40 ng/u1

response 12706

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	28.20	26.98
265.00	110.60	73.79#
0.00	0.00	0.00

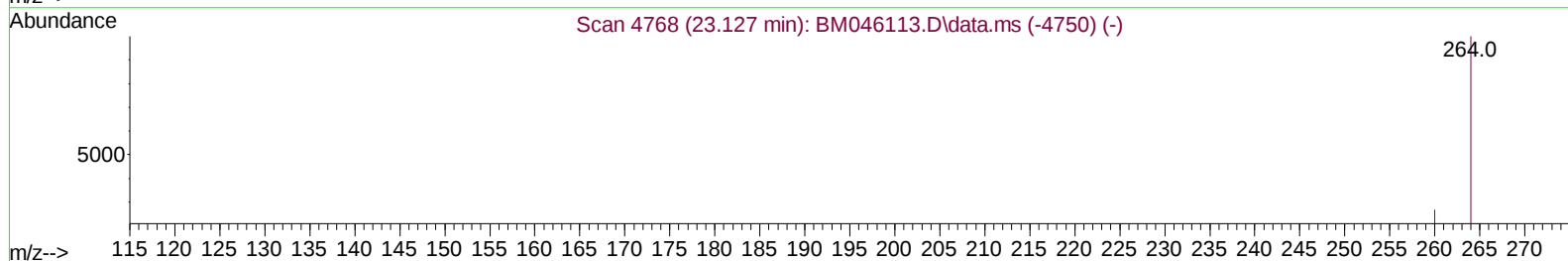
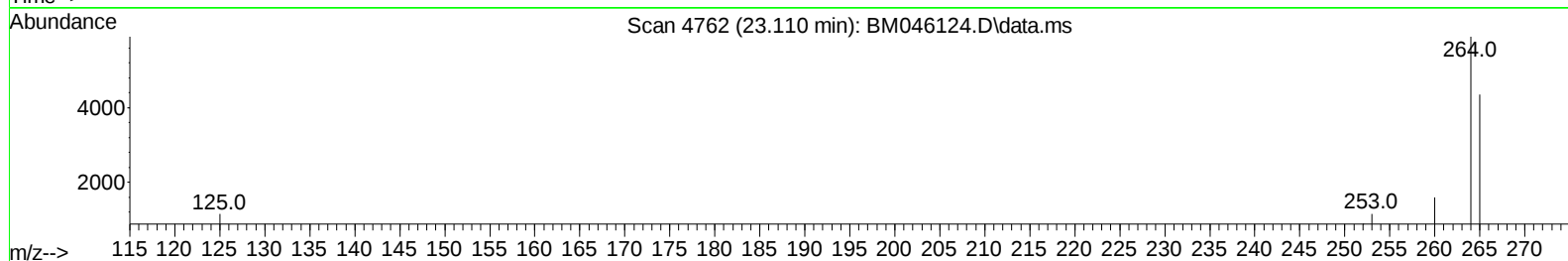
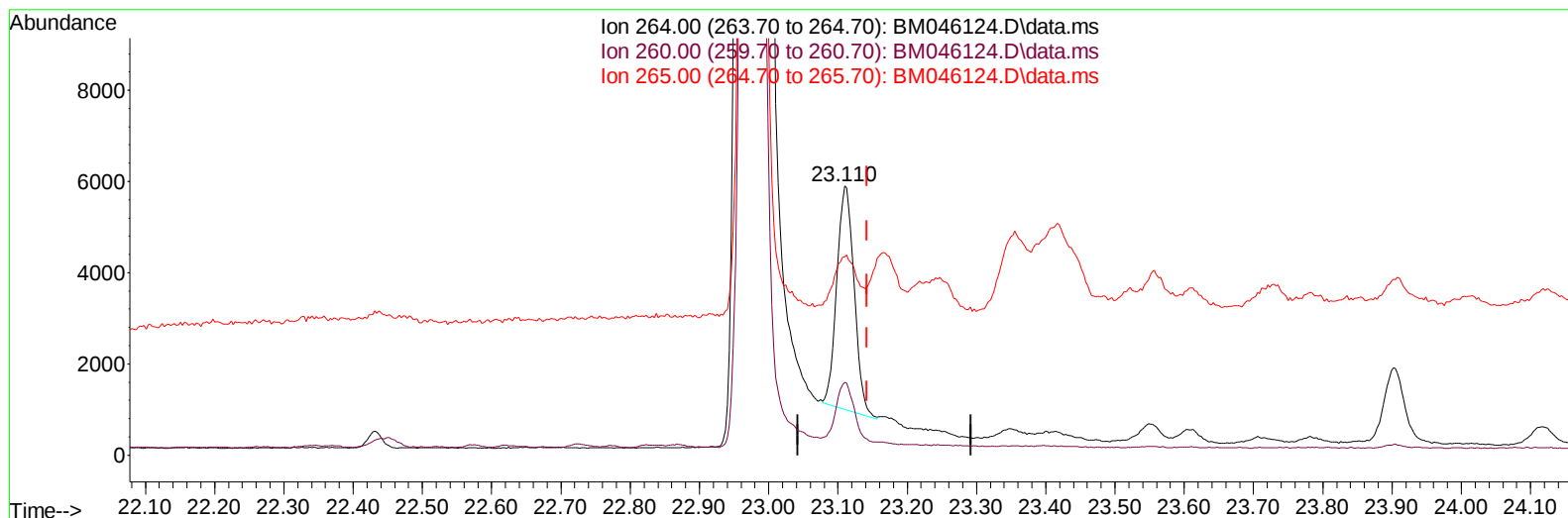
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(23) Perylene-d12 (I)

23.110min (-0.033) 0.40 ng/ul m

response 8493

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	28.20	26.98
265.00	110.60	73.79#
0.00	0.00	0.00

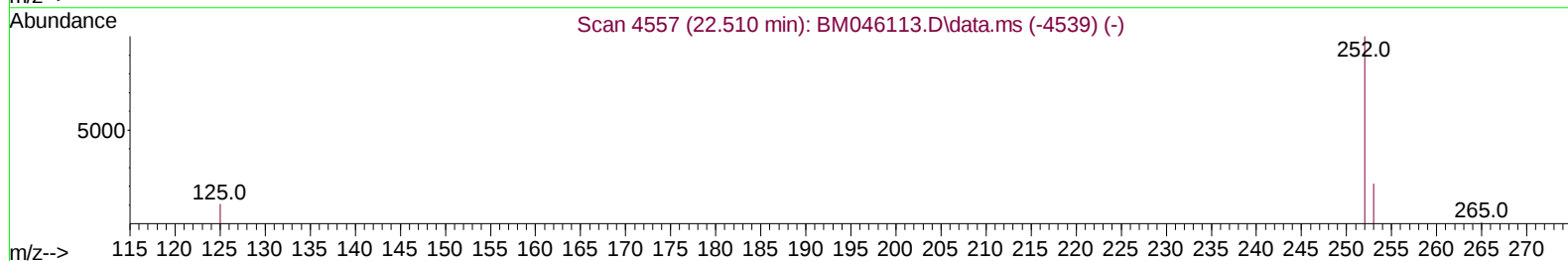
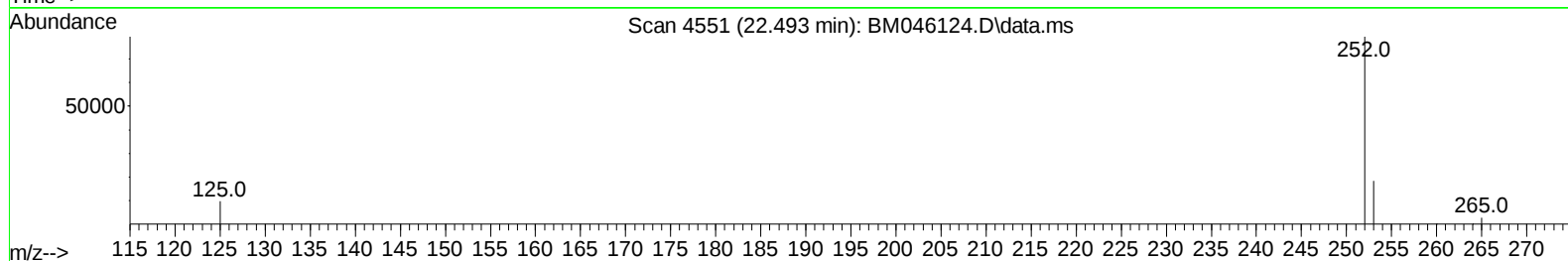
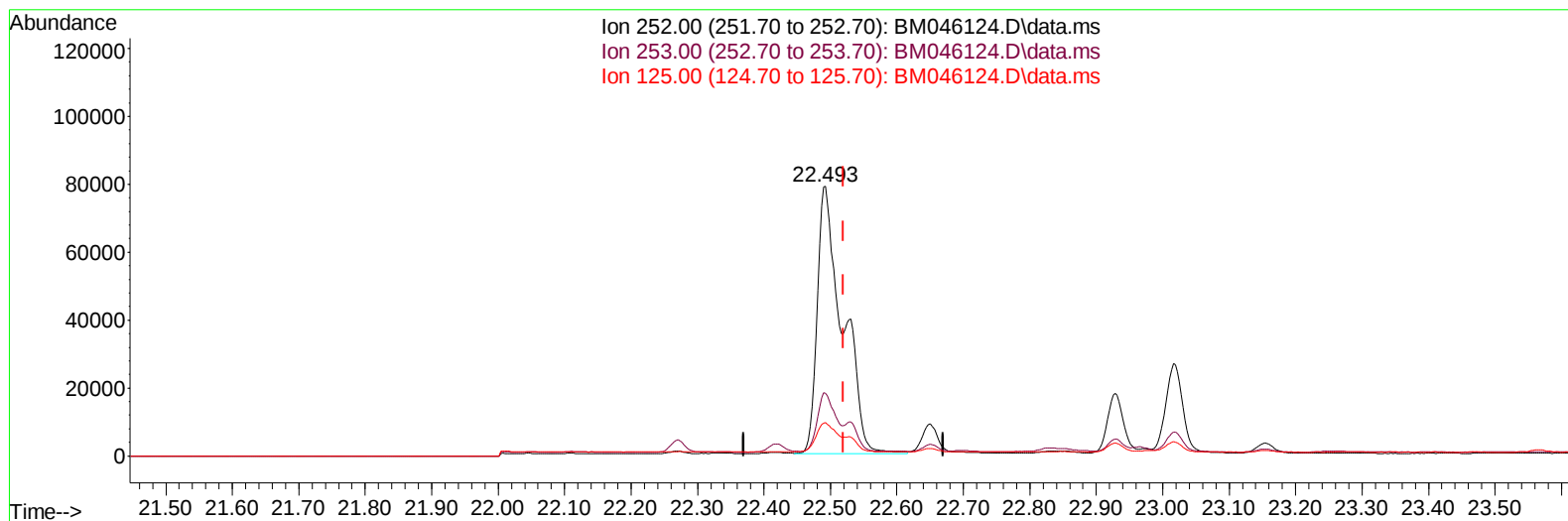
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(24) Benzo(b)fluoranthene

22.493min (-0.027) 6.82 ng/u1

response 208628

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	32.90	23.33
125.00	20.10	12.37
0.00	0.00	0.00

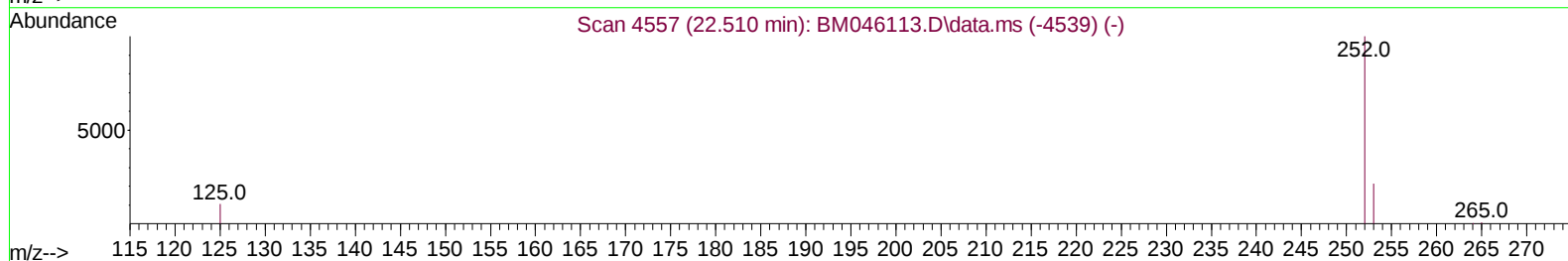
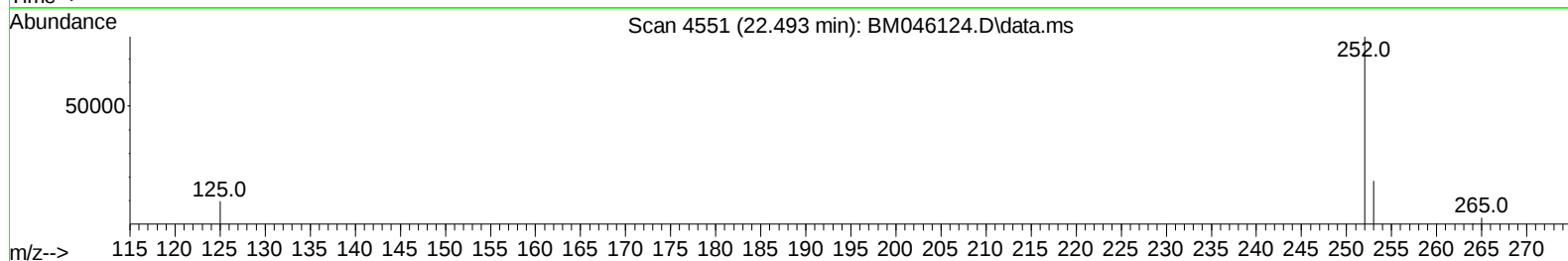
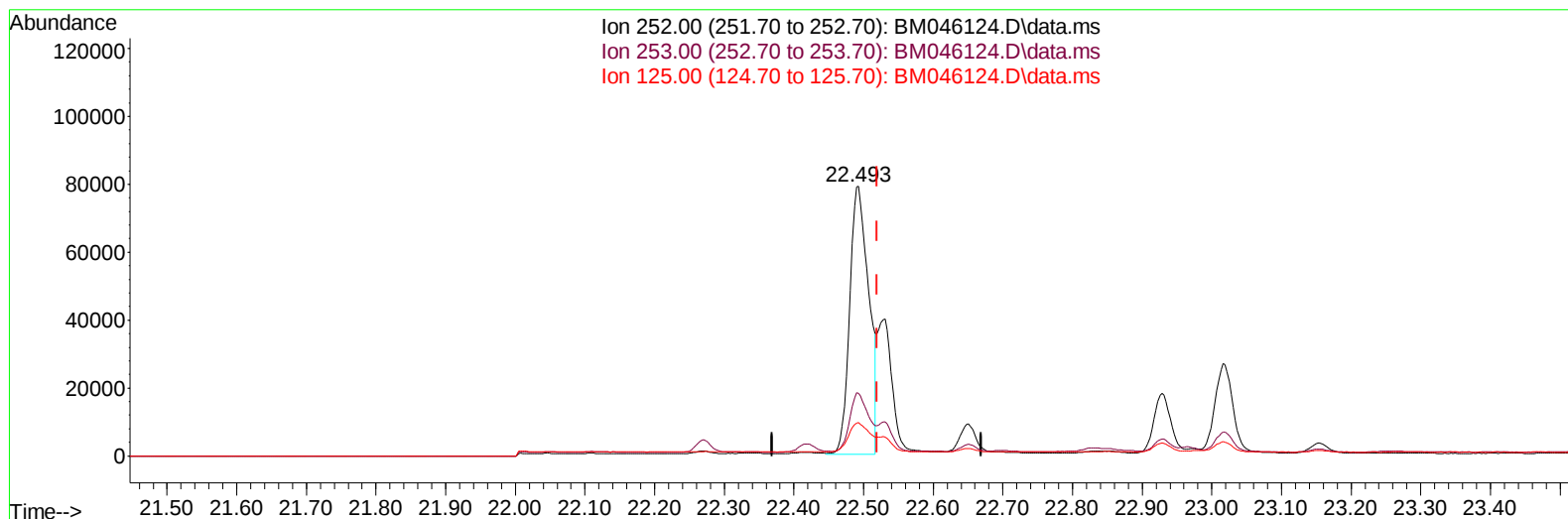
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(24) Benzo(b)fluoranthene

22.493min (-0.027) 4.88 ng/u1 m

response 149209

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	32.90	23.33
125.00	20.10	12.37
0.00	0.00	0.00

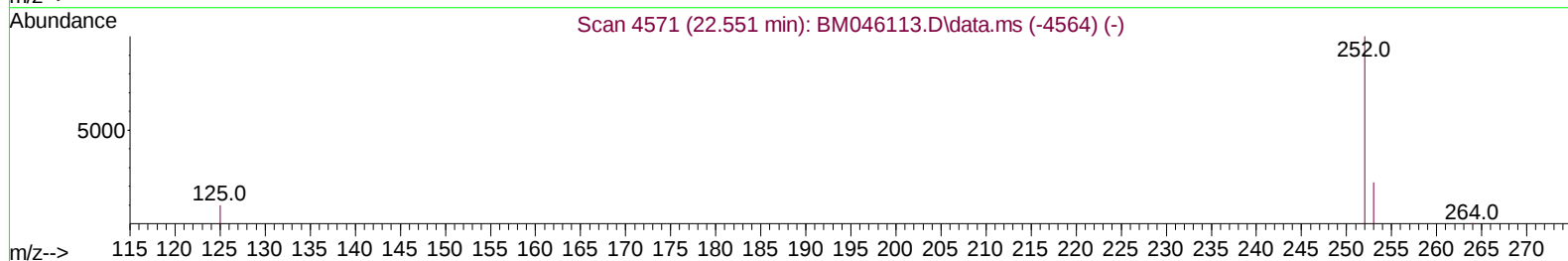
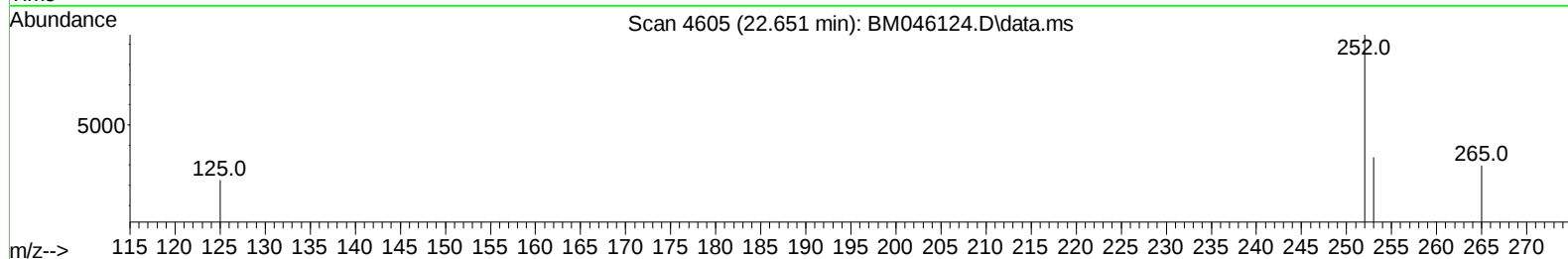
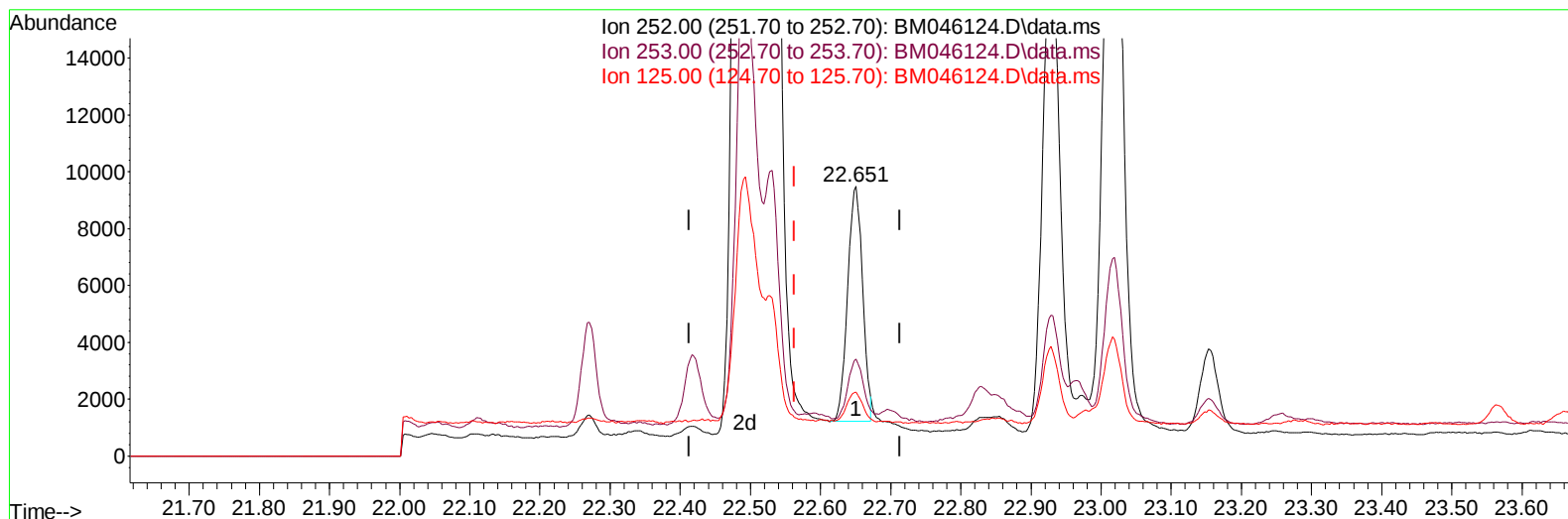
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(25) Benzo(k)fluoranthene

22.651min (+ 0.087) 0.34 ng/u1

response 12195

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	34.00	35.90
125.00	20.80	23.62
0.00	0.00	0.00

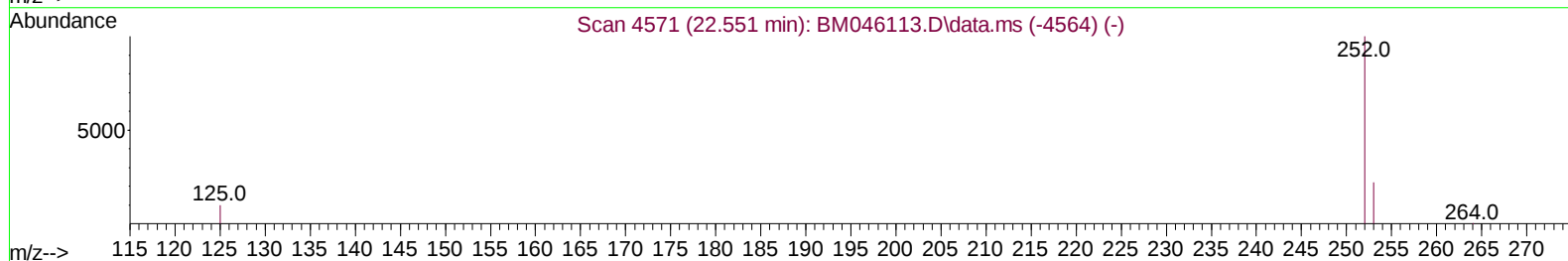
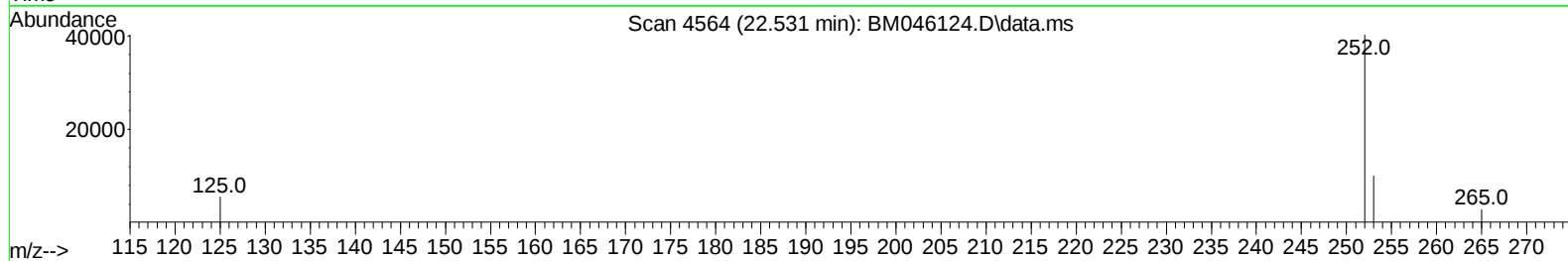
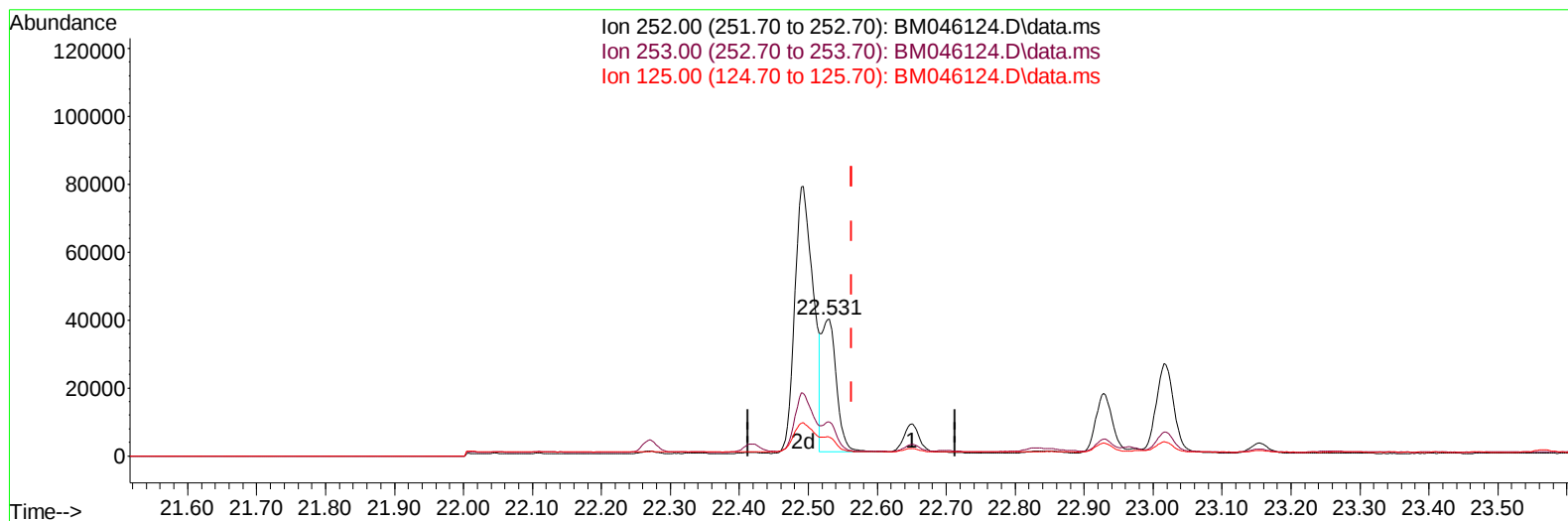
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
 Data File : BM046124.D
 Acq On : 20 Jun 2024 15:44
 Operator : MA/JU
 Sample : P2710-16
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 18 13:58:29 2024
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
 Supervised By :mohammad ahmed 06/24/2024



TIC: BM046124.D\data.ms

(25) Benzo(k)fluoranthene

22.531min (-0.033) 1.60 ng/u1 m

response 58175

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	34.00	24.95#
125.00	20.80	13.79#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
 Data File : BM046124.D
 Acq On : 20 Jun 2024 15:44
 Operator : MA/JU
 Sample : P2710-16
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 18 13:58:29 2024
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
 Supervised By :mohammad ahmed 06/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.421	152	2788	0.400	ng/ul	-0.04
4) Naphthalene-d8	10.194	136	8201	0.400	ng/ul	#-0.06
9) Acenaphthene-d10	14.072	164	4441	0.400	ng/ul	-0.04
13) Phenanthrene-d10	16.816	188	9477m	0.400	ng/ul	-0.05
17) Chrysene-d12	21.014	240	7452m	0.400	ng/ul	-0.03
23) Perylene-d12	23.110	264	8493m	0.400	ng/ul	-0.03
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.033	96	15054	3.936	ng/ul	-0.01
6) 2-Methylnaphthalene-d10	11.827	152	2871	0.261	ng/ul	-0.04
18) Fluoranthene-d10	18.849	212	6583	0.295	ng/ul	-0.04
Target Compounds						
					Qvalue	
5) Naphthalene	10.244	128	1977	0.086	ng/ul#	94
7) 2-Methylnaphthalene	11.899	142	512	0.040	ng/ul	88
8) 1-Methylnaphthalene	12.113	142	424	0.030	ng/ul	96
10) Acenaphthylene	13.790	152	5086	0.241	ng/ul	99
11) Acenaphthene	14.137	153	2514	0.165	ng/ul	98
12) Fluorene	15.127	166	3226	0.198	ng/ul	99
15) Phenanthrene	16.854	178	73896m	2.775	ng/ul	
16) Anthracene	16.947	178	16060m	0.810	ng/ul	
19) Fluoranthene	18.877	202	207792	6.440	ng/ul	97
20) Pyrene	19.239	202	135900	3.895	ng/ul	97
21) Benzo(a)anthracene	20.997	228	83990m	2.918	ng/ul	
22) Chrysene	21.049	228	107004	2.913	ng/ul	99
24) Benzo(b)fluoranthene	22.493	252	149209m	4.876	ng/ul	
25) Benzo(k)fluoranthene	22.531	252	58175m	1.599	ng/ul	
26) Benzo(a)pyrene	23.016	252	47494	1.675	ng/ul#	77
27) Indeno(1,2,3-cd)pyrene	25.155	276	54114	1.166	ng/ul#	90
28) Dibenzo(a,h)anthracene	25.162	278	16337	0.473	ng/ul	98
29) Benzo(g,h,i)perylene	25.782	276	7719	0.194	ng/ul#	88

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046124.D
Acq On : 20 Jun 2024 15:44
Operator : MA/JU
Sample : P2710-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BN0

Manual IntegrationsAPPROVED

Quant Time: Jun 20 16:14:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 18 13:58:29 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024
Supervised By :mohammad ahmed 06/24/2024

