

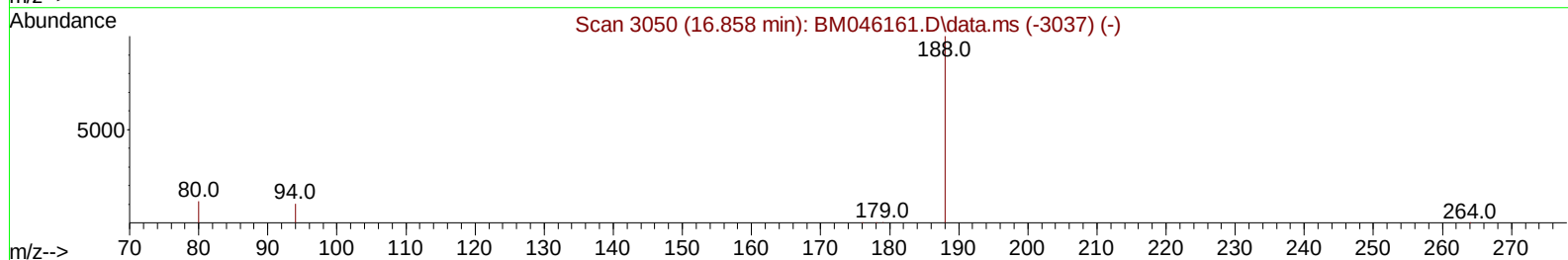
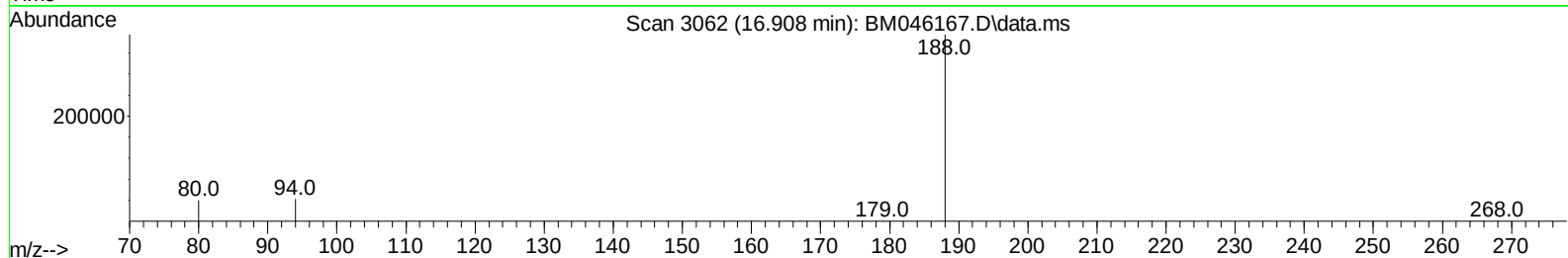
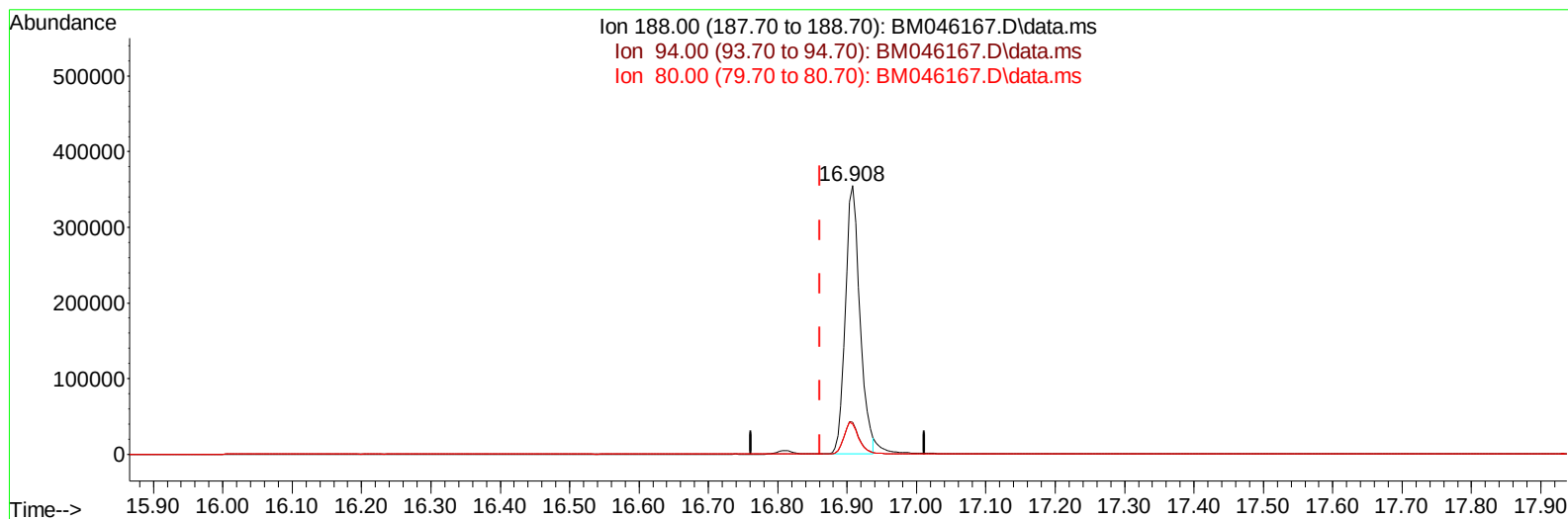
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

Quant Time: Jun 21 22:27:44 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 :Yogesh Patel 06/24/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(13) Phenanthrene-d10 (I)

16.908min (+ 0.047) 0.40 ng/u1

response 517363

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	13.80	11.82
80.00	15.20	11.24#
0.00	0.00	0.00

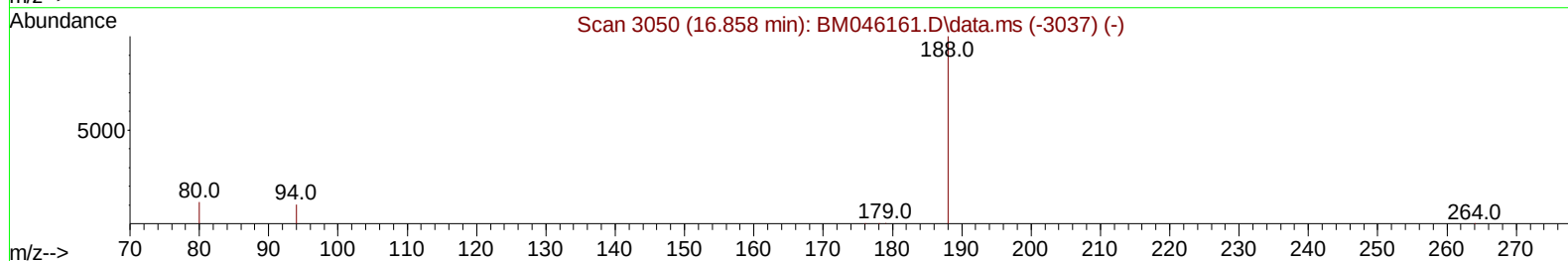
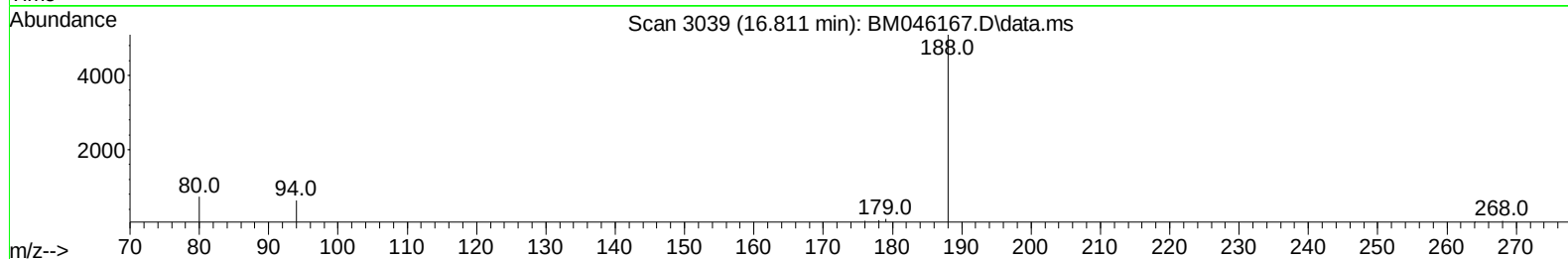
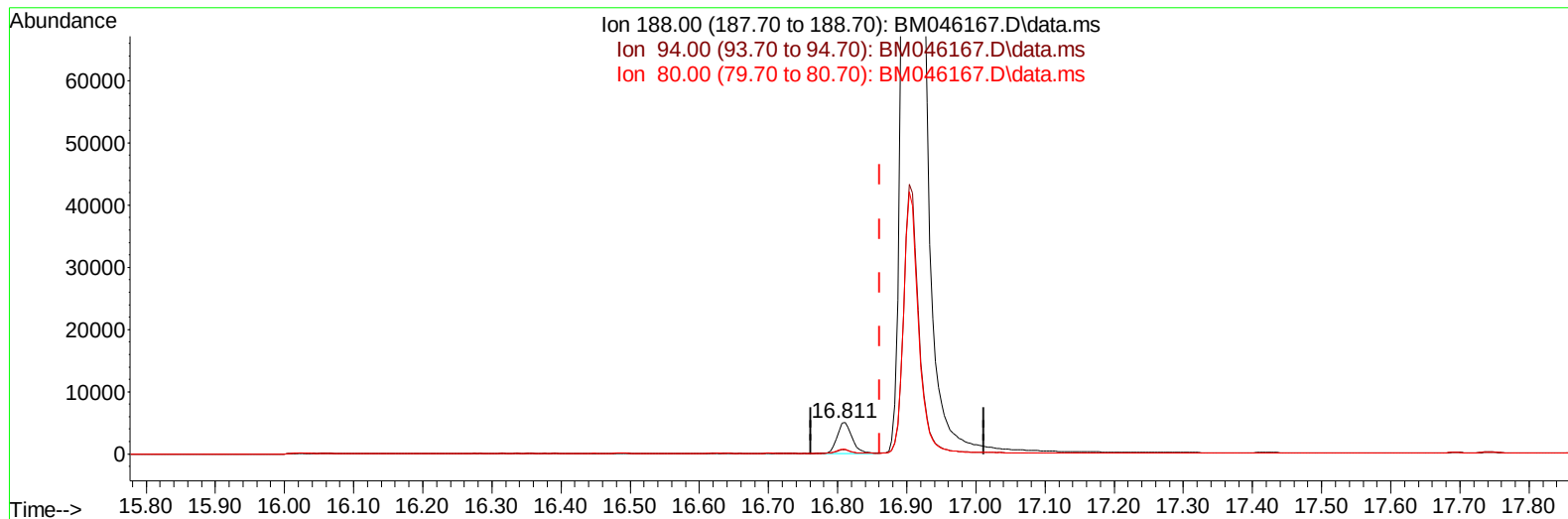
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

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QLast Update : Tue Jun 18 13:58:29 2024
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Reviewed By :Yogesh Patel 06/24/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(13) Phenanthrene-d10 (I)

16.811min (-0.051) 0.40 ng/ul m

response 7659

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	13.80	12.58
80.00	15.20	14.39
0.00	0.00	0.00

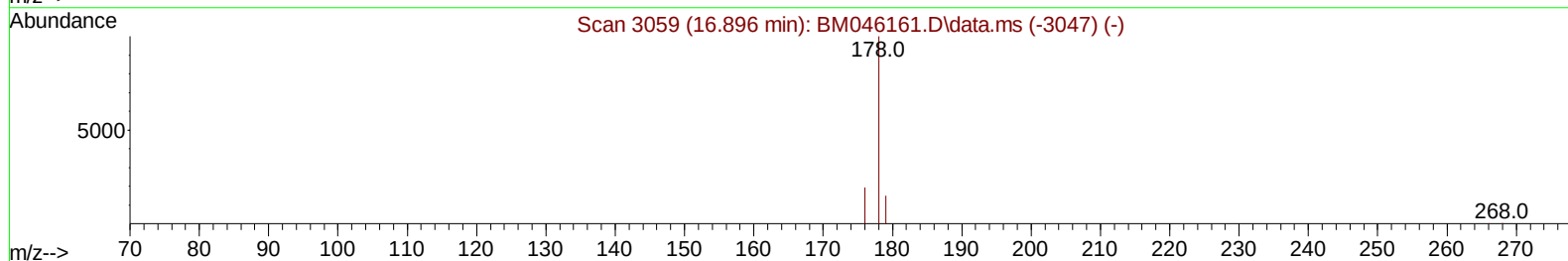
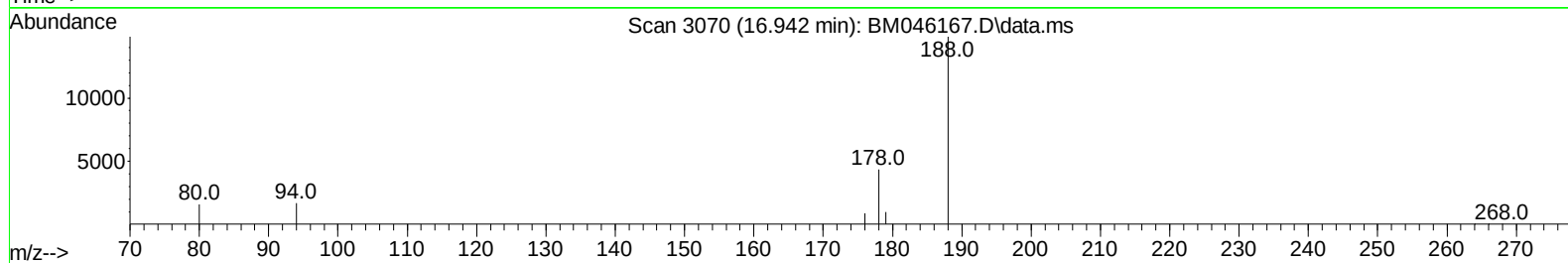
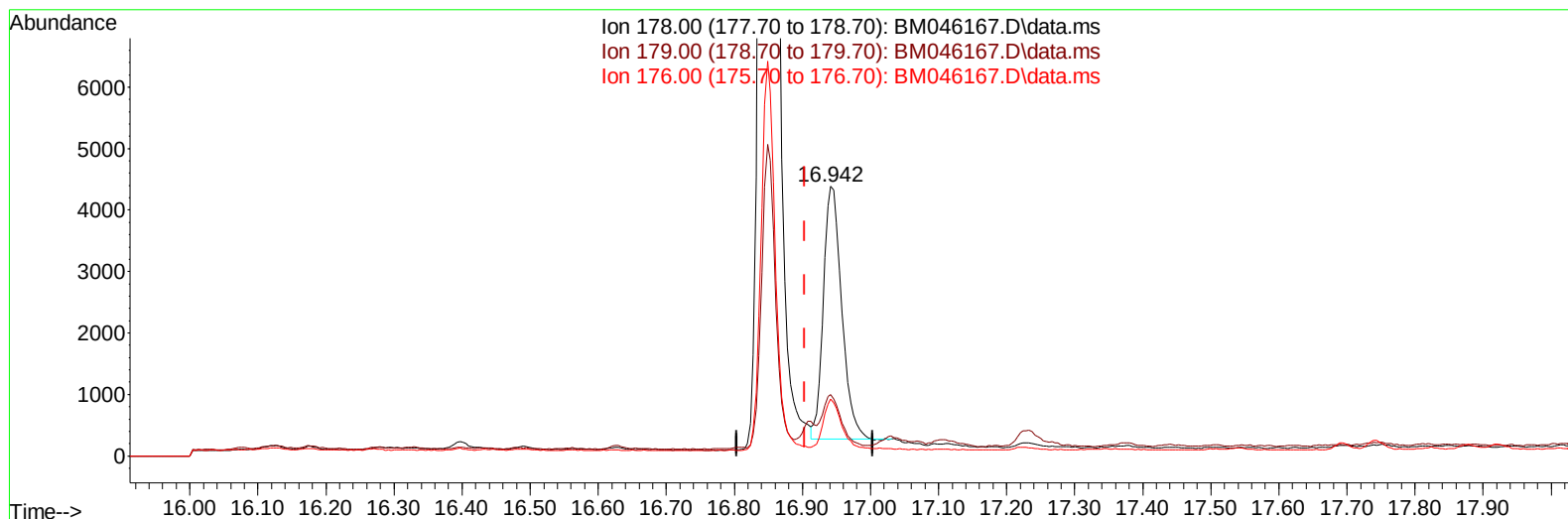
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

Quant Time: Jun 21 22:27:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM061824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Reviewed By :Yogesh Patel 06/24/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(15) Phenanthrene

16.942min (+ 0.038) 0.36 ng/u1

response 7730

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	17.70	22.84#
176.00	21.40	21.22
0.00	0.00	0.00

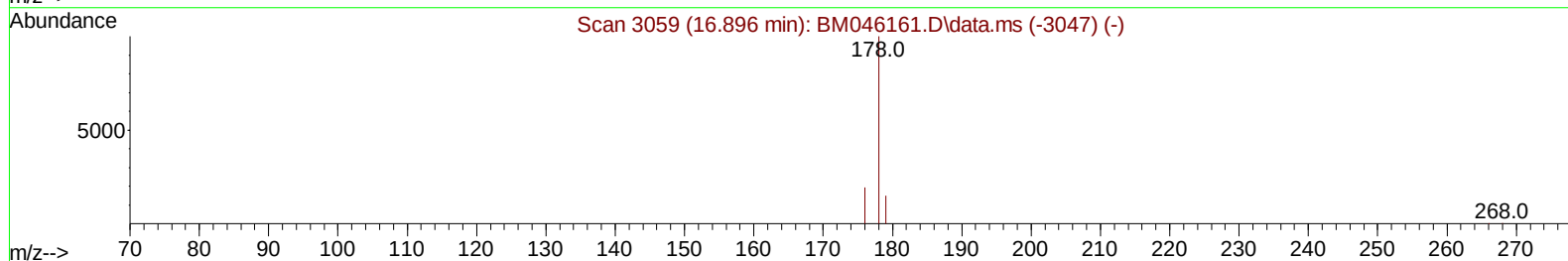
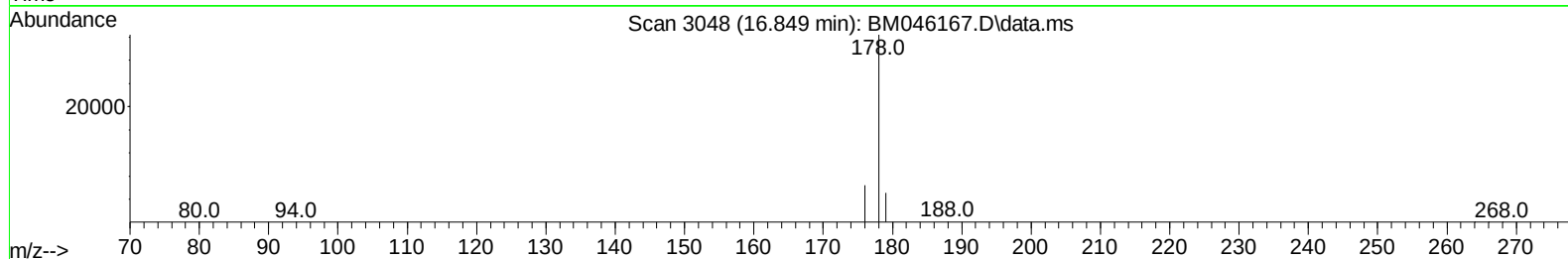
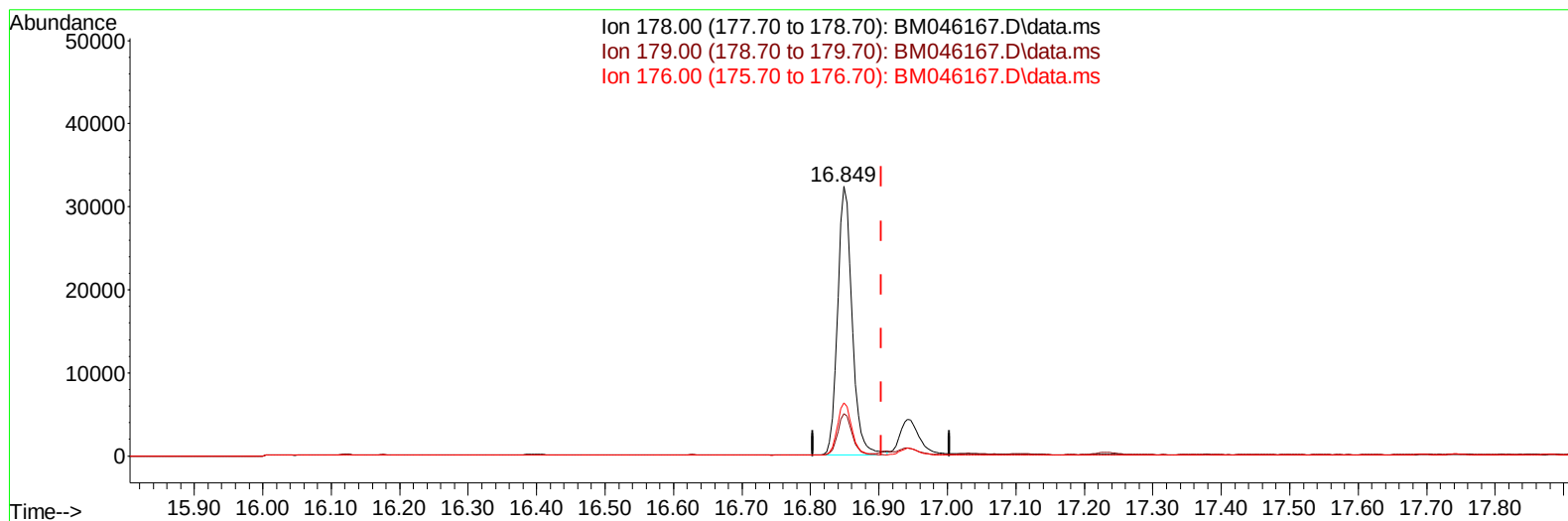
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

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QLast Update : Tue Jun 18 13:58:29 2024
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Reviewed By :Yogesh Patel 06/24/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(15) Phenanthrene

16.849min (-0.055) 2.20 ng/ul m

response 47313

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	17.70	15.61
176.00	21.40	19.78
0.00	0.00	0.00

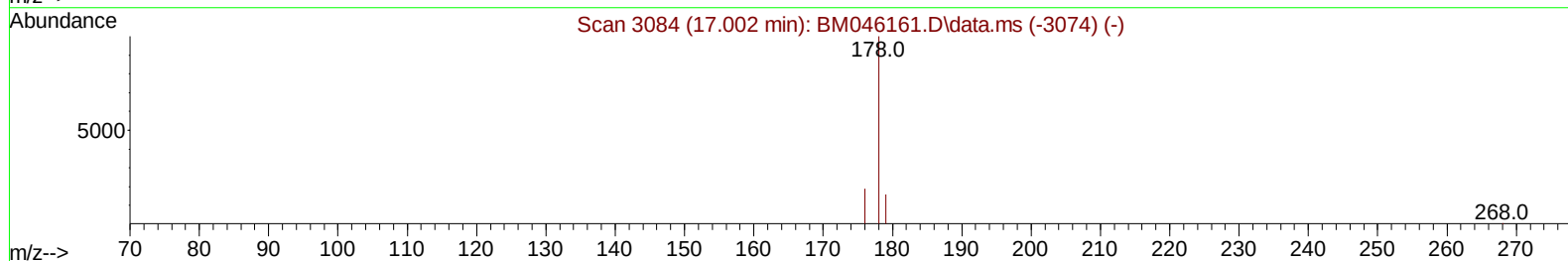
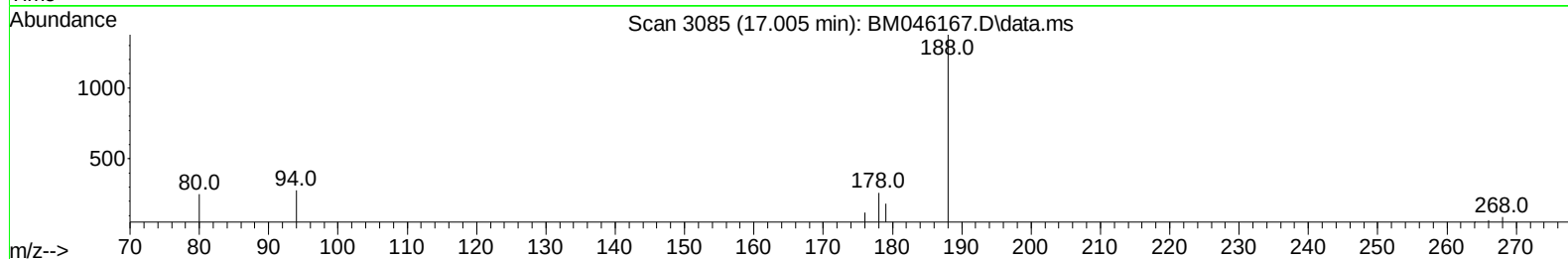
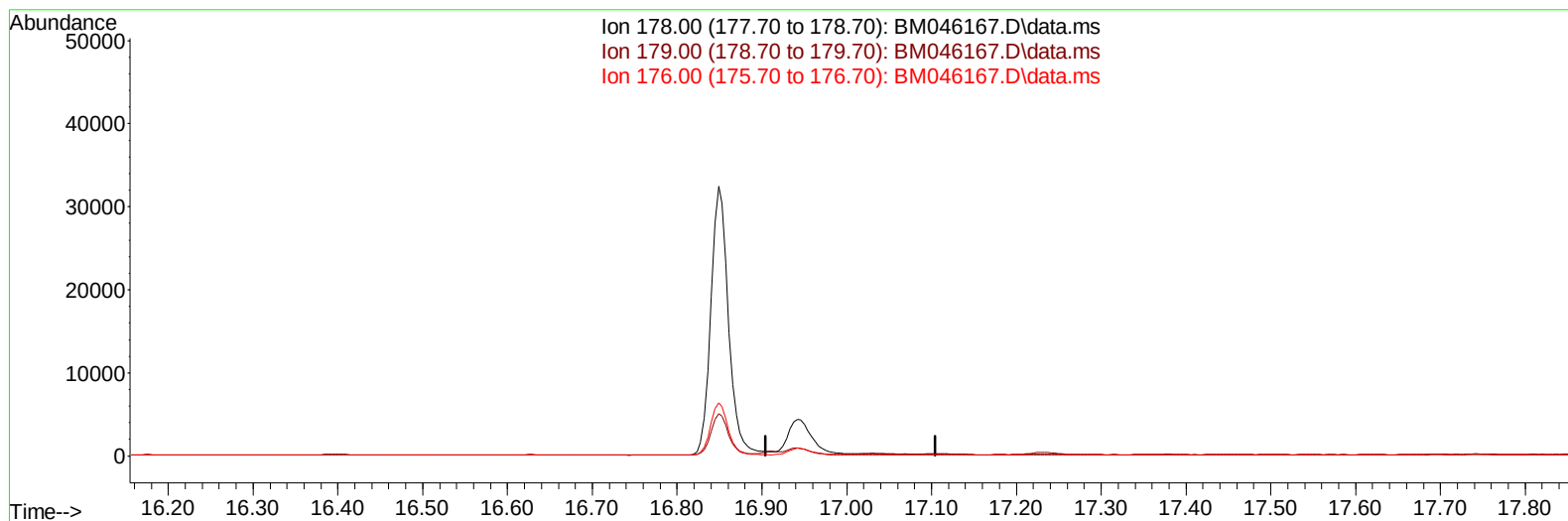
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

Quant Time: Jun 21 22:27:44 2024
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TIC: BM046167.D\data.ms

(16) Anthracene

17.005min (-17.005) 0.00 ng/u1

response 0

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

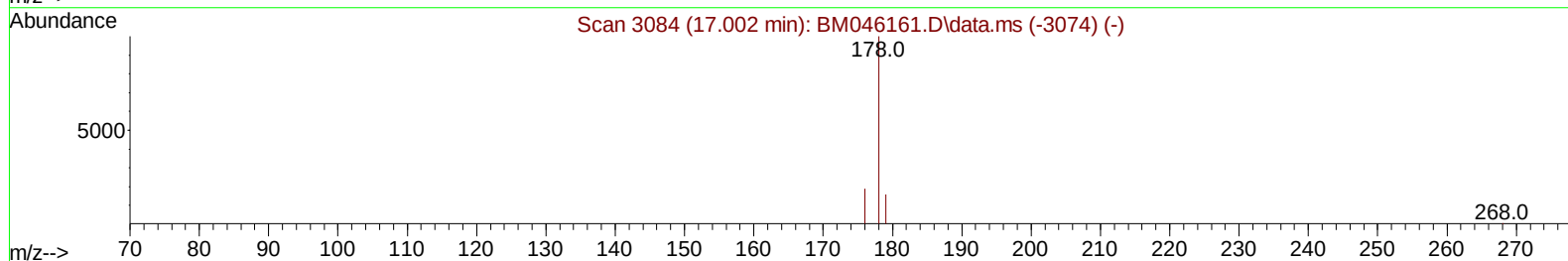
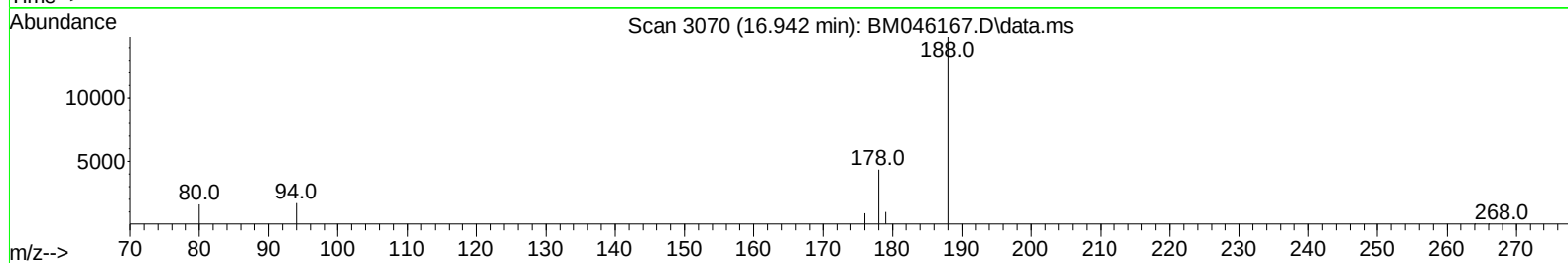
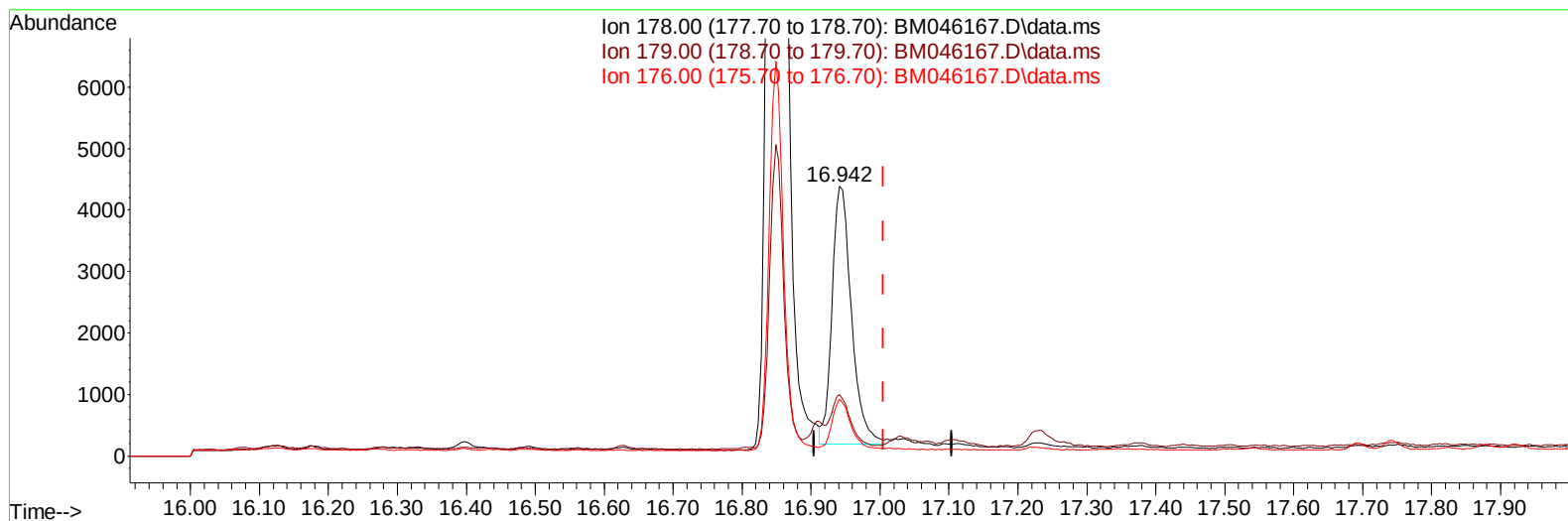
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

Quant Time: Jun 21 22:27:44 2024
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Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(16) Anthracene

16.942min (-0.063) 0.51 ng/ul m

response 8167

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	18.60	22.84#
176.00	21.20	21.22
0.00	0.00	0.00

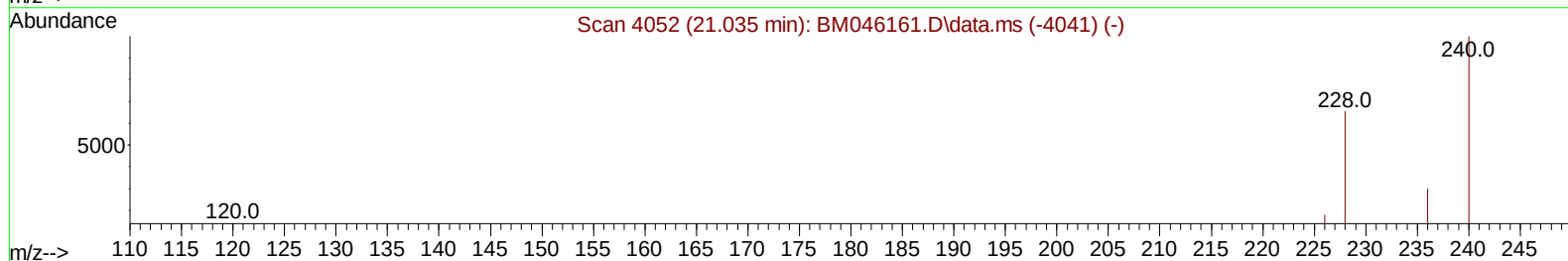
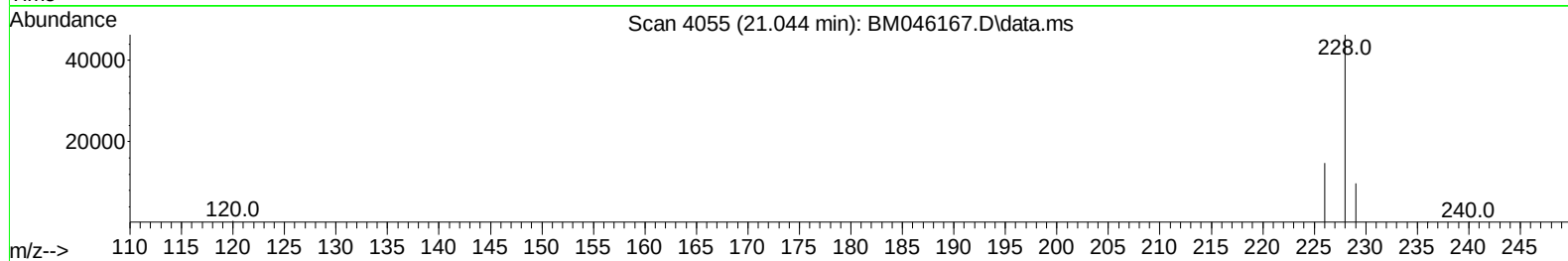
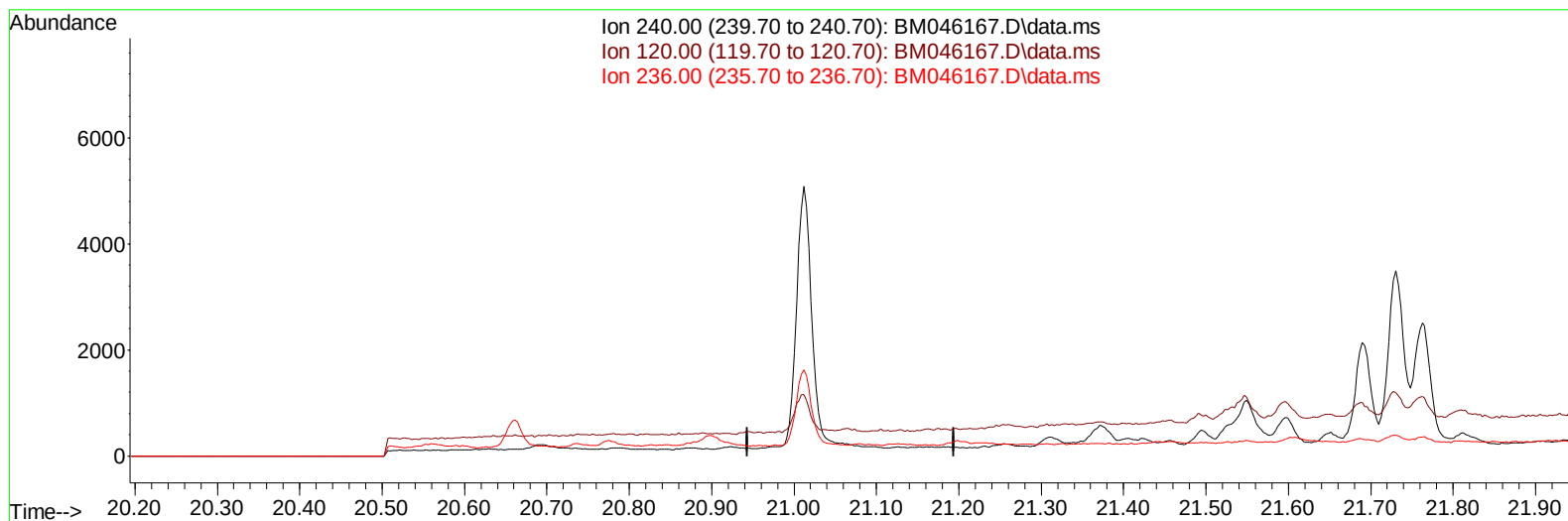
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

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TIC: BM046167.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

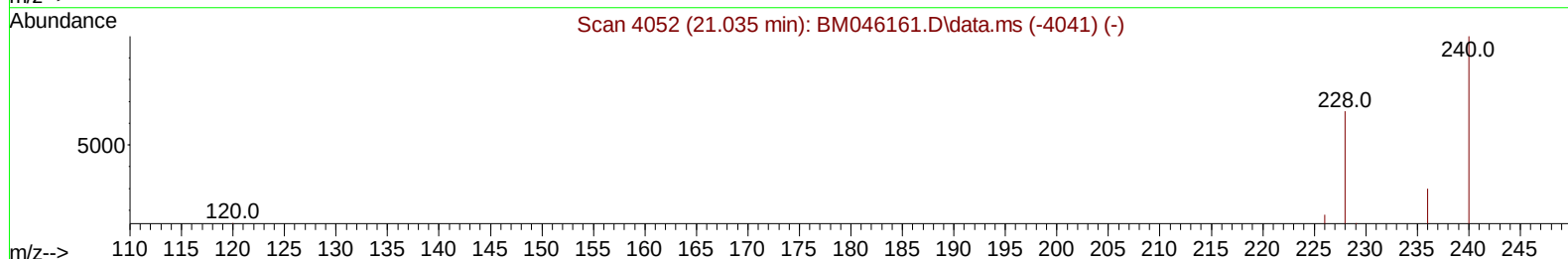
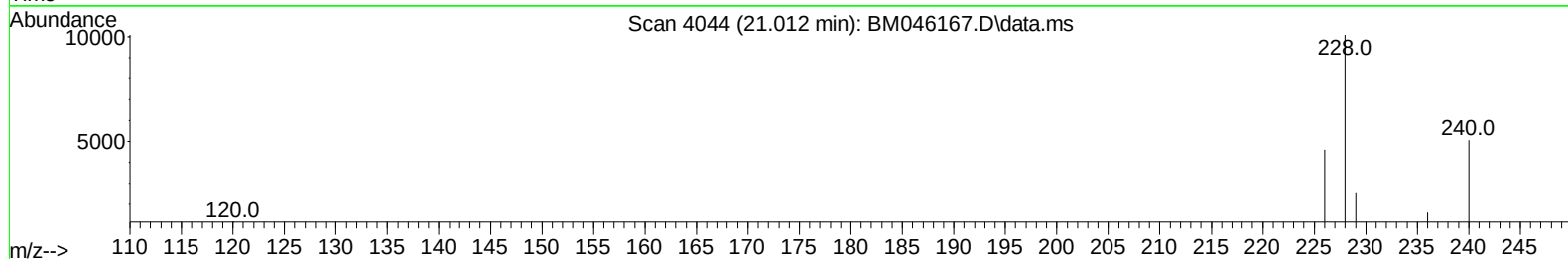
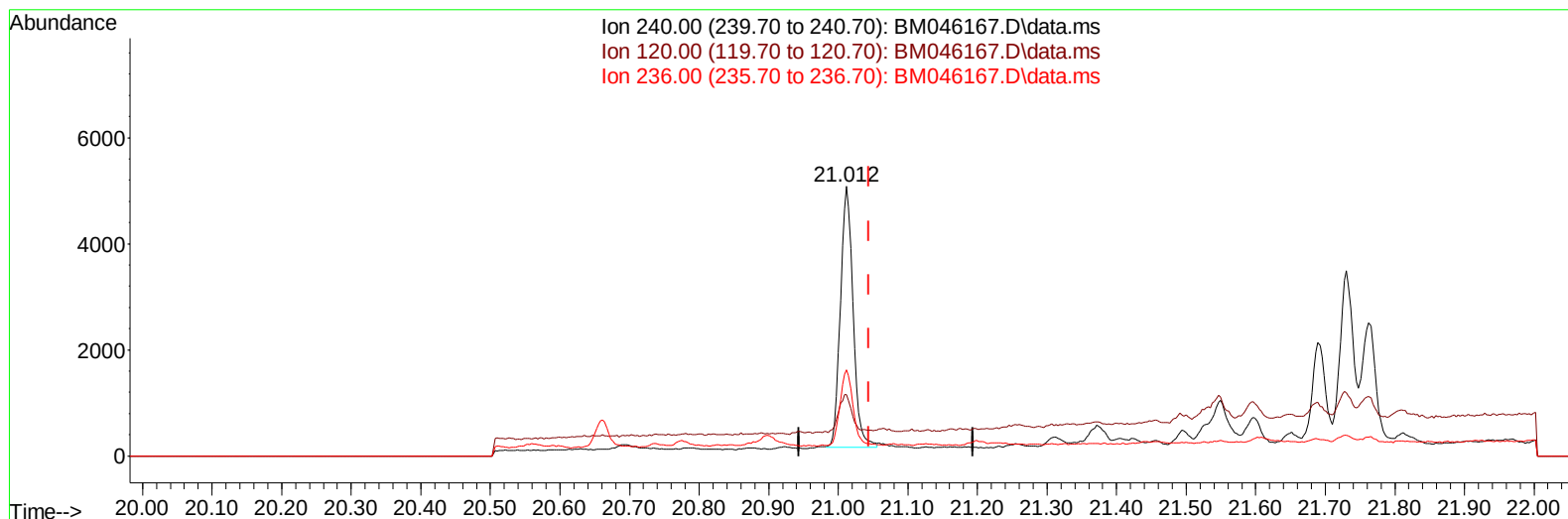
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

Quant Time: Jun 21 22:27:44 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 :Yogesh Patel 06/24/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(17) Chrysene-d12

21.012min (-0.032) 0.40 ng/ul m

response 6215

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	23.50	22.83
236.00	33.60	32.05
0.00	0.00	0.00

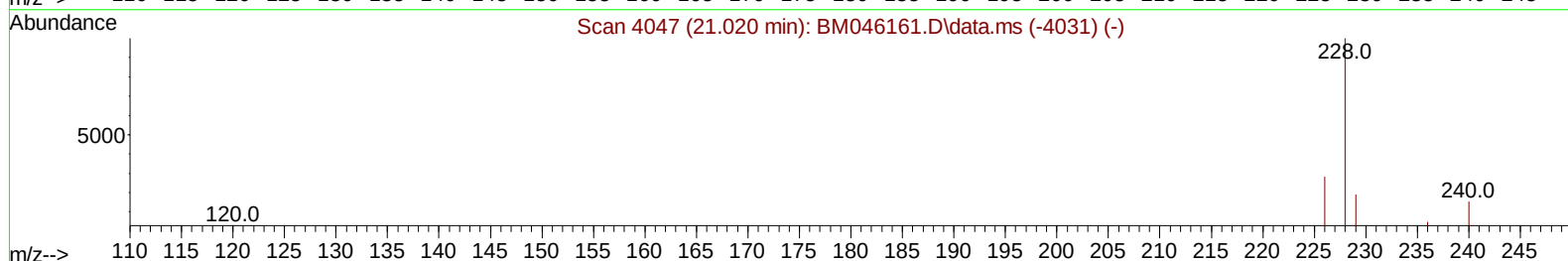
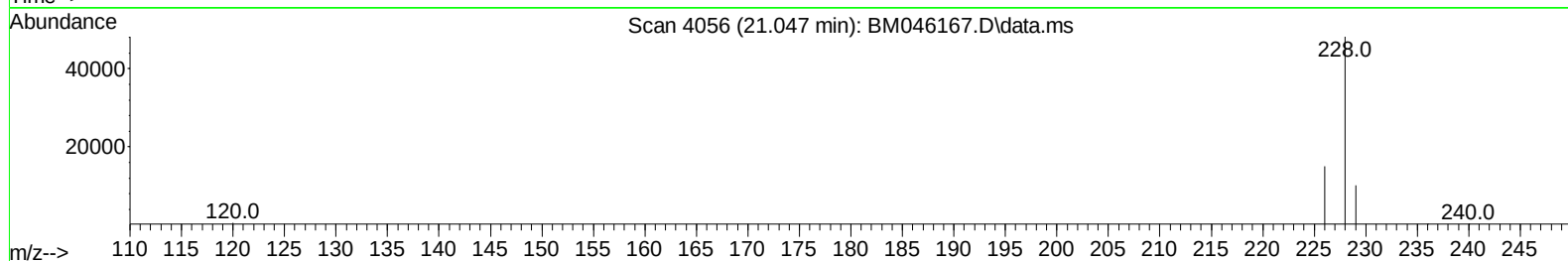
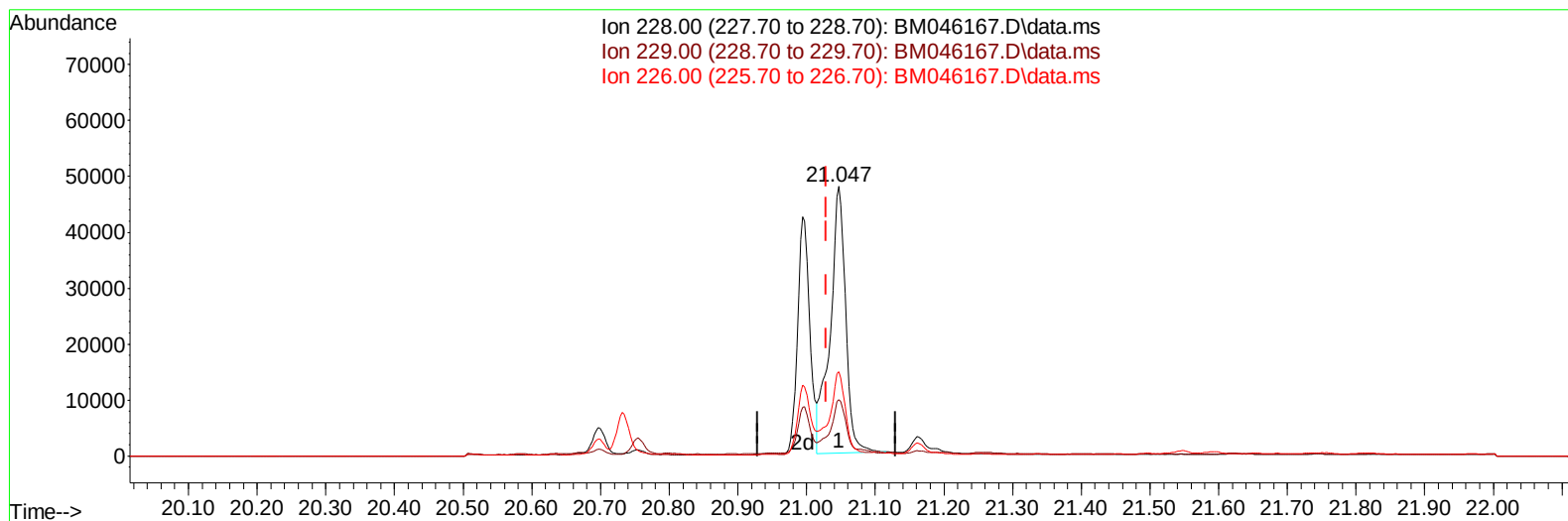
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

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TIC: BM046167.D\data.ms

(21) Benzo(a)anthracene

21.047min (+ 0.018) 3.13 ng/u1

response 75177

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	20.50	21.00
226.00	29.30	31.25
0.00	0.00	0.00

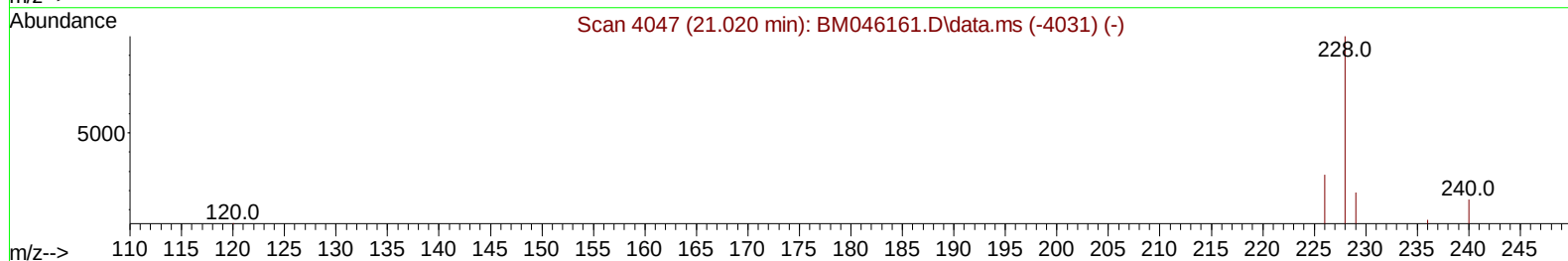
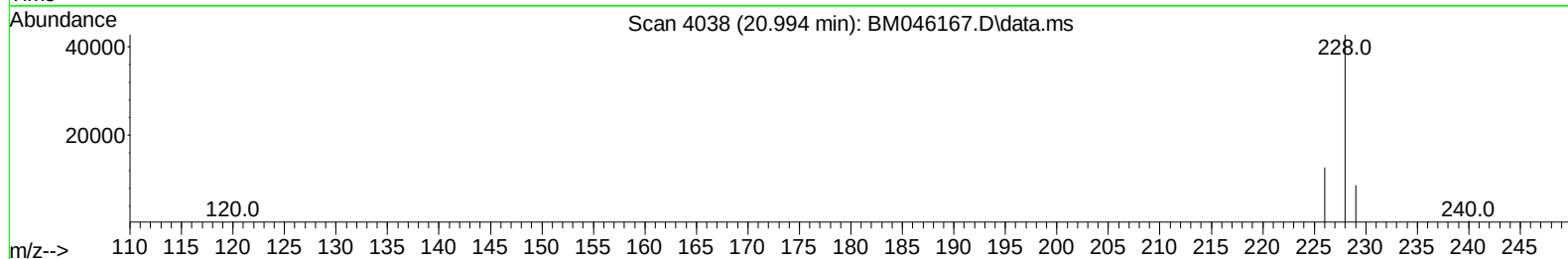
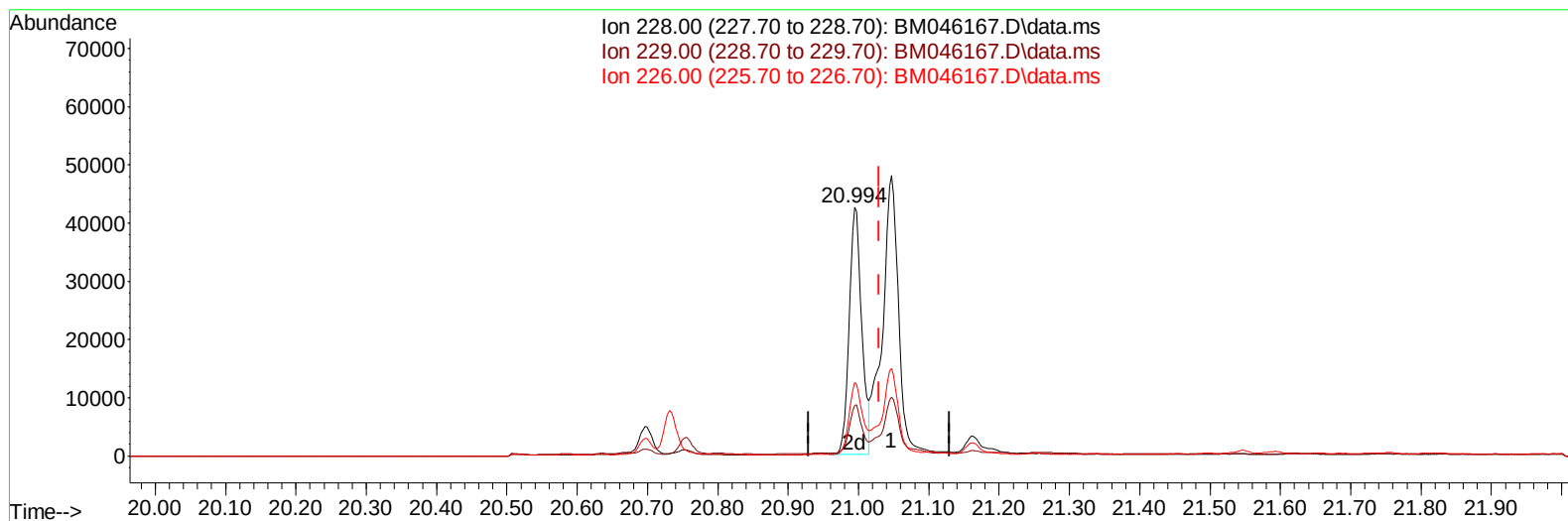
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(21) Benzo(a)anthracene

20.994min (-0.035) 2.21 ng/ul m

response 52989

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	20.50	20.40
226.00	29.30	29.58
0.00	0.00	0.00

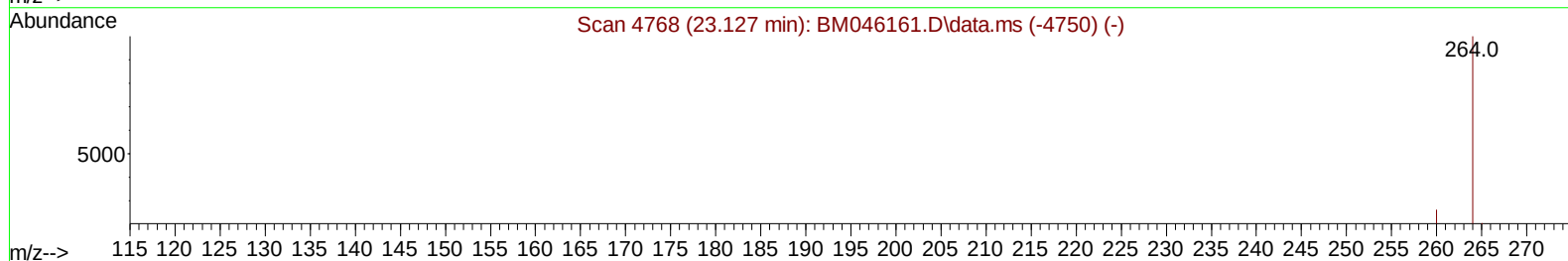
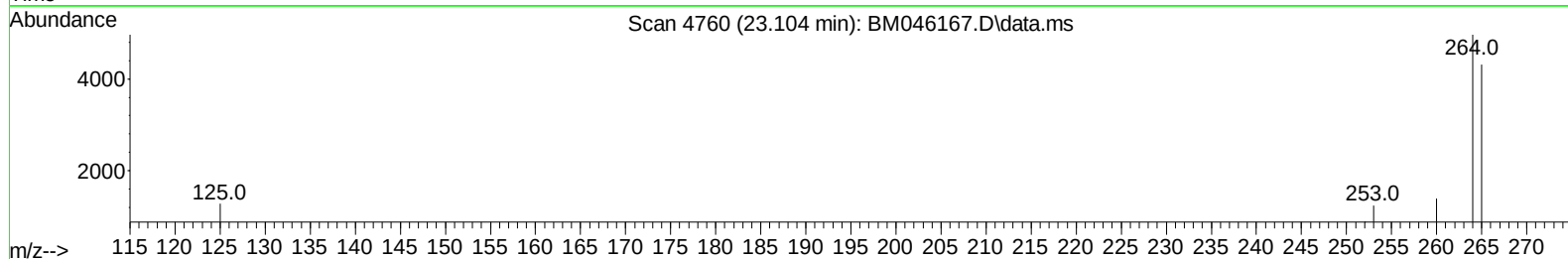
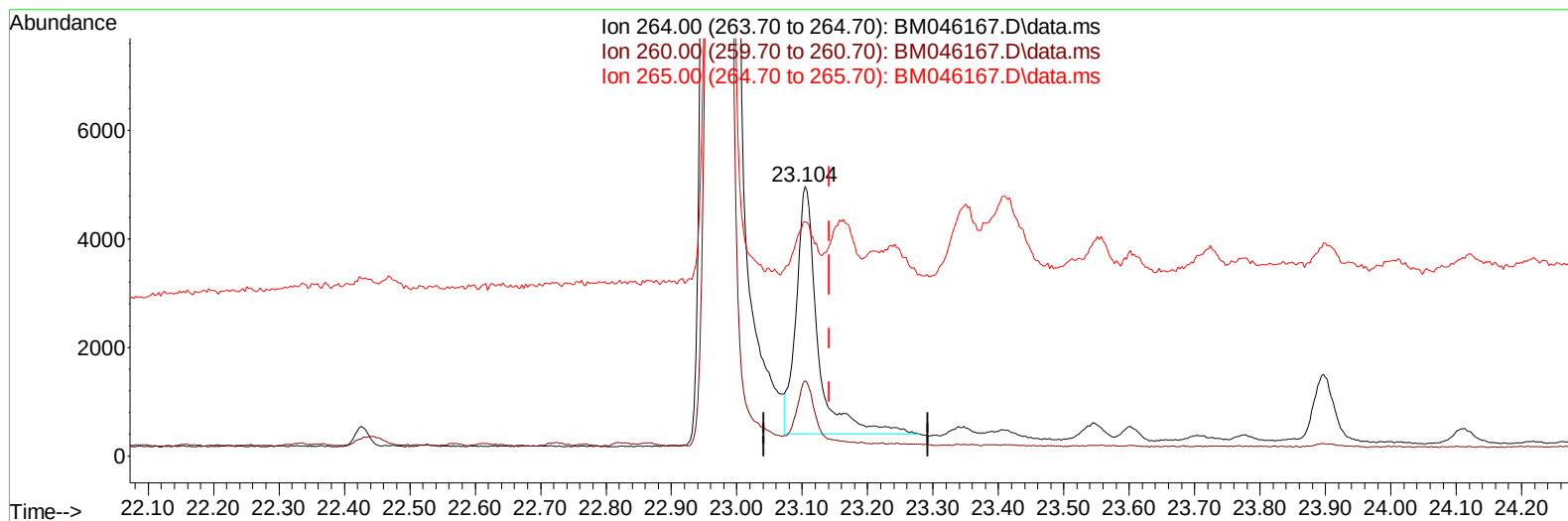
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

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TIC: BM046167.D\data.ms

(23) Perylene-d12 (I)

23.104min (-0.038) 0.40 ng/u1

response 10538

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	28.20	27.98
265.00	110.60	86.91#
0.00	0.00	0.00

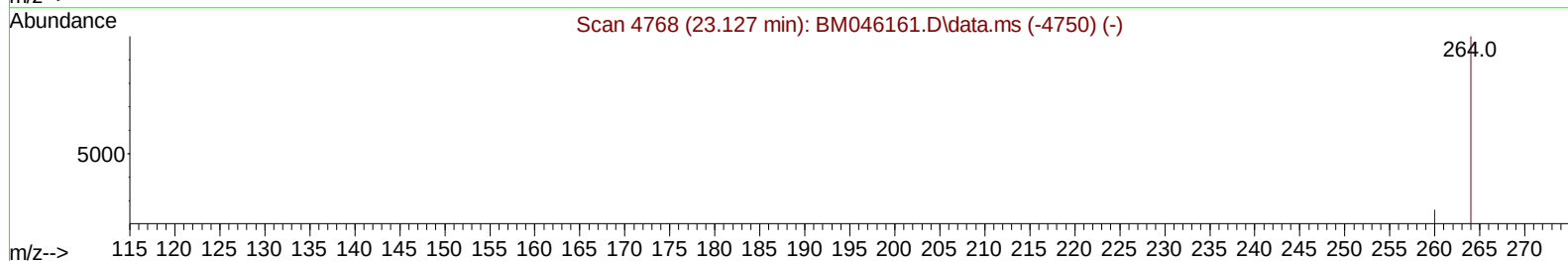
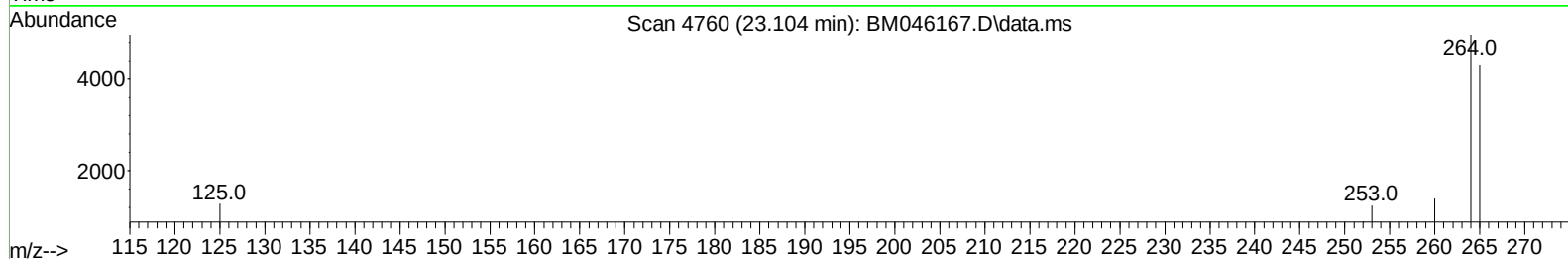
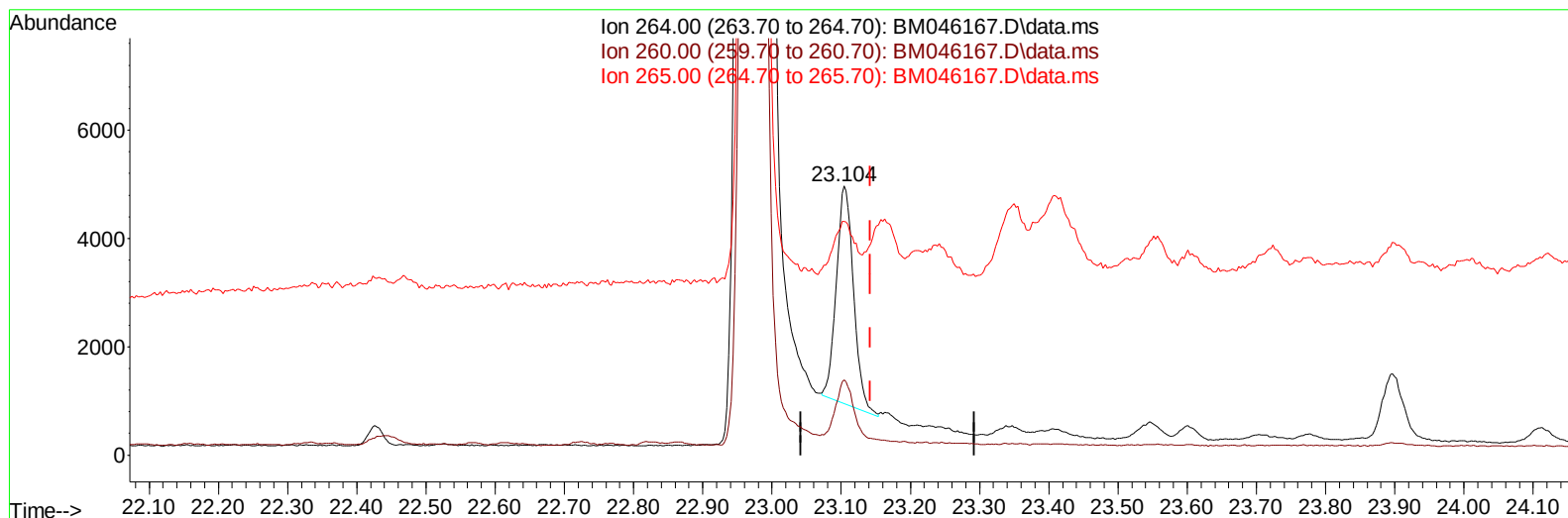
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(23) Perylene-d12 (I)

23.104min (-0.038) 0.40 ng/ul m

response 6905

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	28.20	27.98
265.00	110.60	86.91#
0.00	0.00	0.00

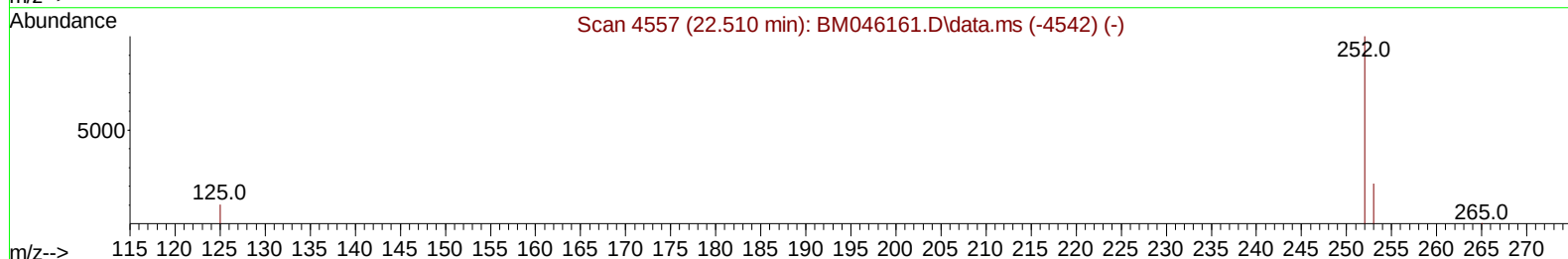
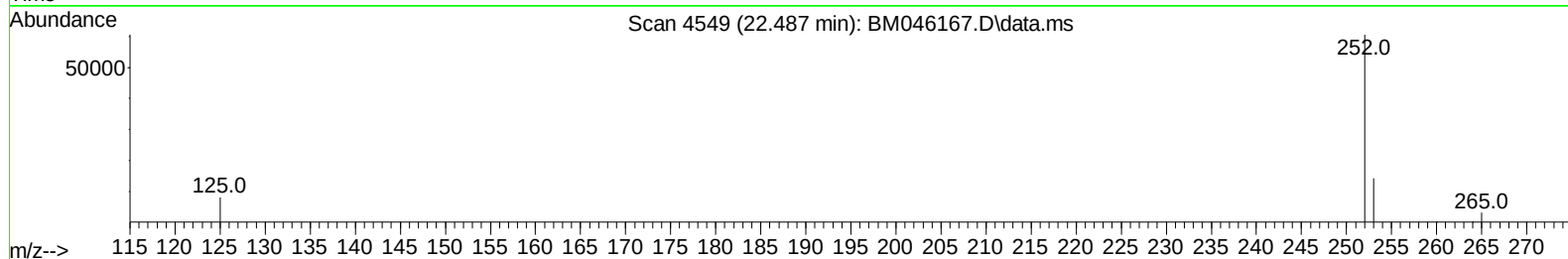
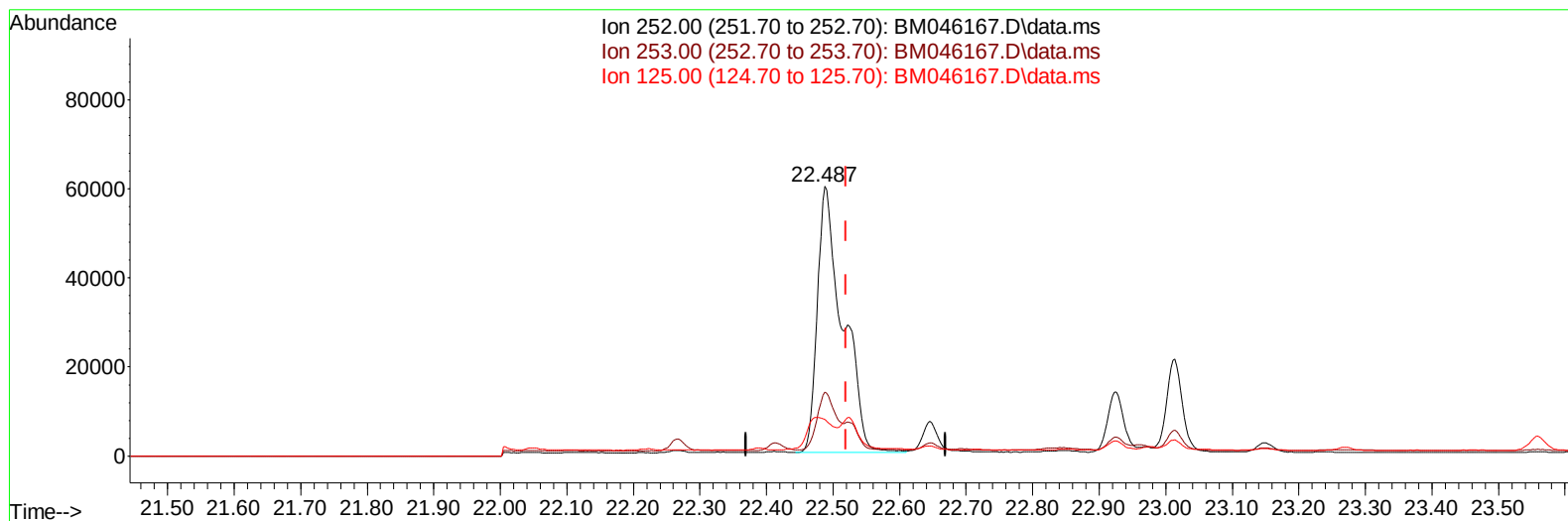
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
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A4BQ1

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Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(24) Benzo(b)fluoranthene

22.487min (-0.032) 6.32 ng/u1

response 157130

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	32.90	23.76
125.00	20.10	13.54
0.00	0.00	0.00

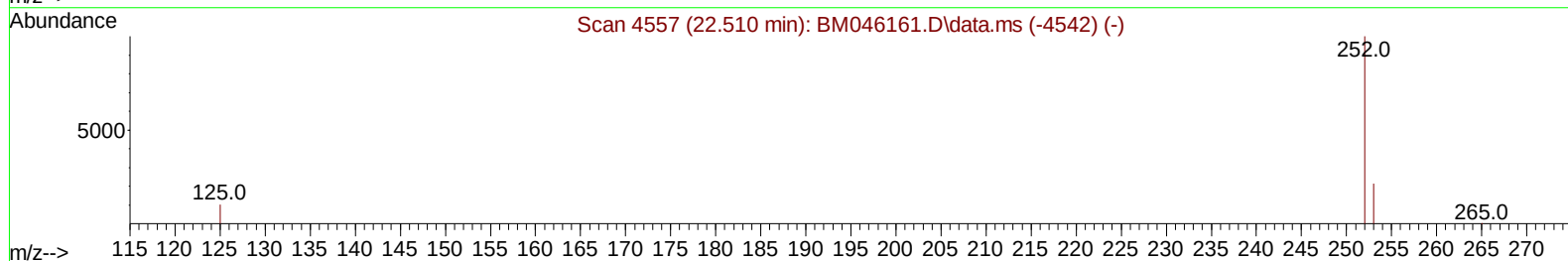
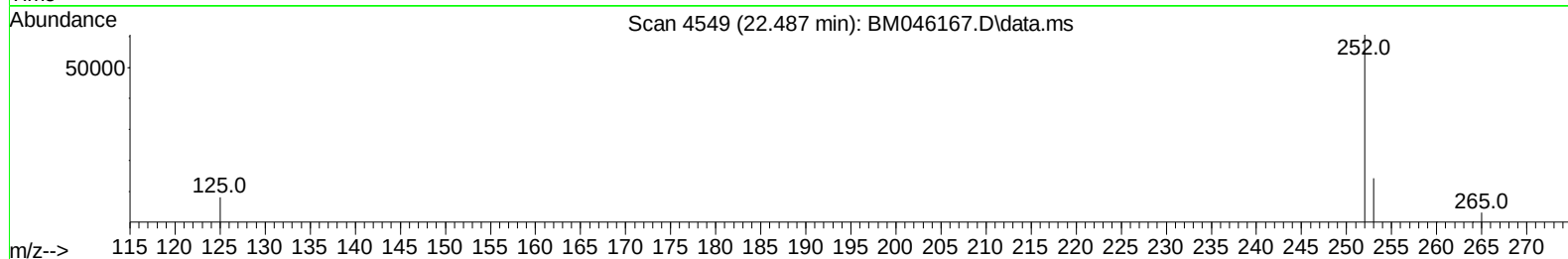
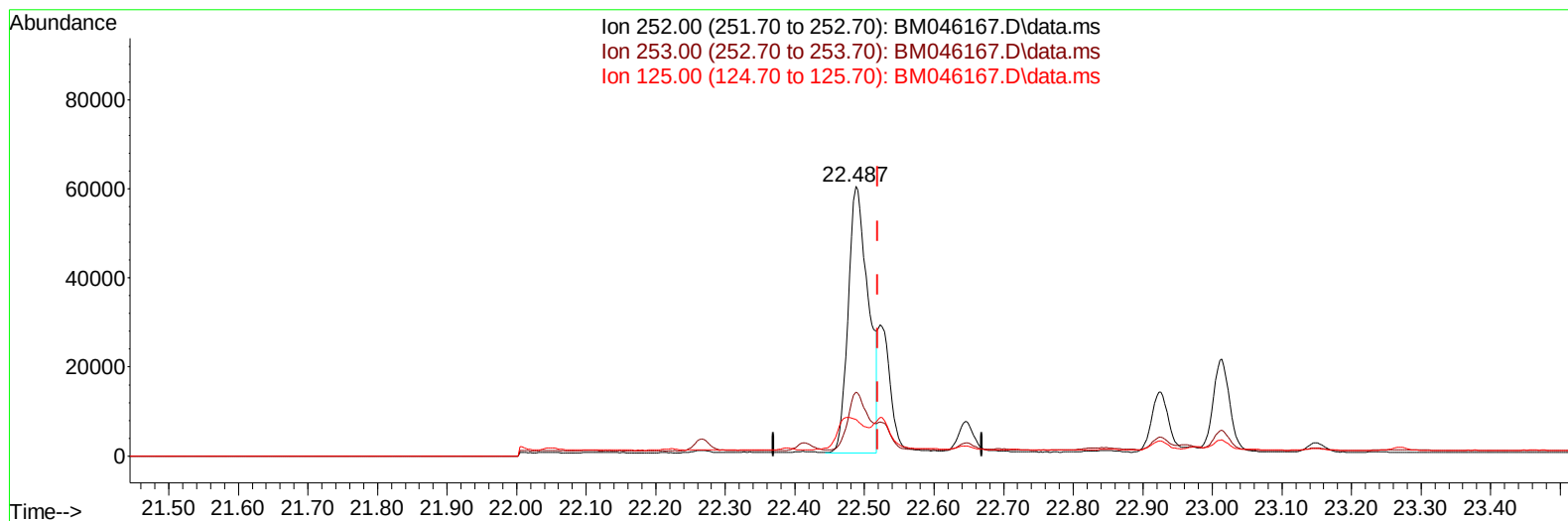
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

Quant Time: Jun 21 22:27:44 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 :Yogesh Patel 06/24/2024
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046167.D\data.ms

(24) Benzo(b)fluoranthene

22.487min (-0.032) 4.83 ng/ul m

response 120226

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	32.90	23.76
125.00	20.10	13.54
0.00	0.00	0.00

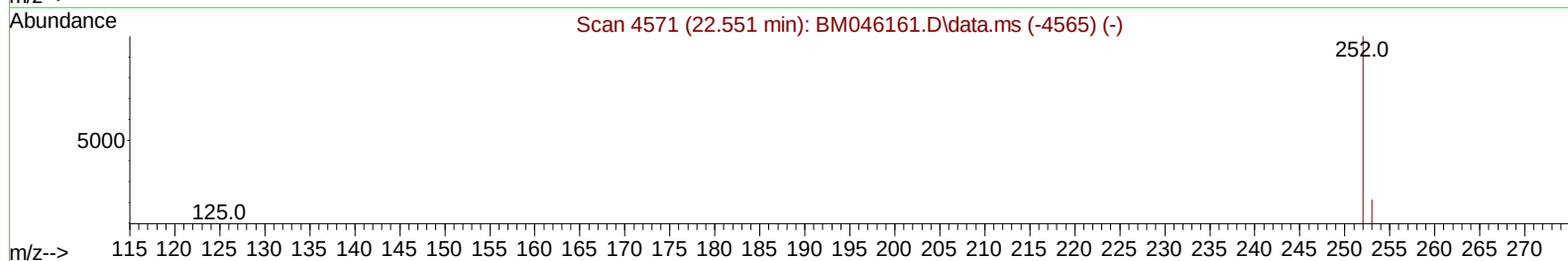
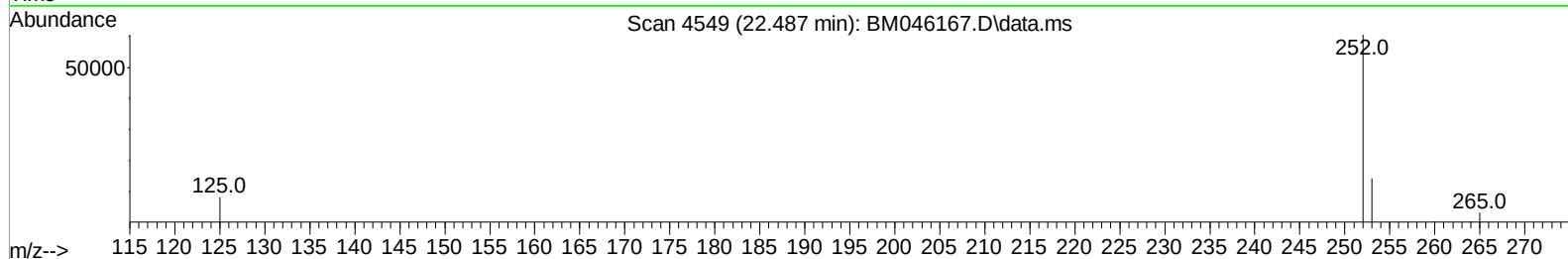
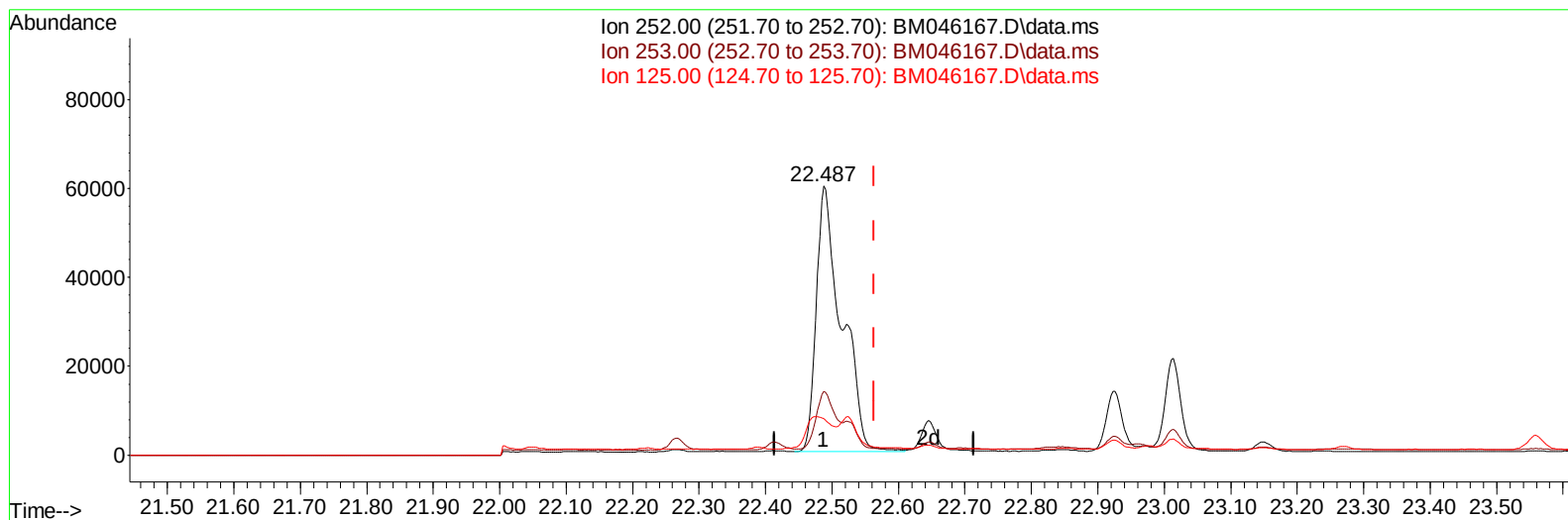
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
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Operator : MA/JU
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ALS Vial : 19 Sample Multiplier: 1

Instrument :
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TIC: BM046167.D\data.ms

(25) Benzo(k)fluoranthene

22.487min (-0.076) 5.31 ng/u l

response 157130

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	34.00	23.76#
125.00	20.80	13.54#
0.00	0.00	0.00

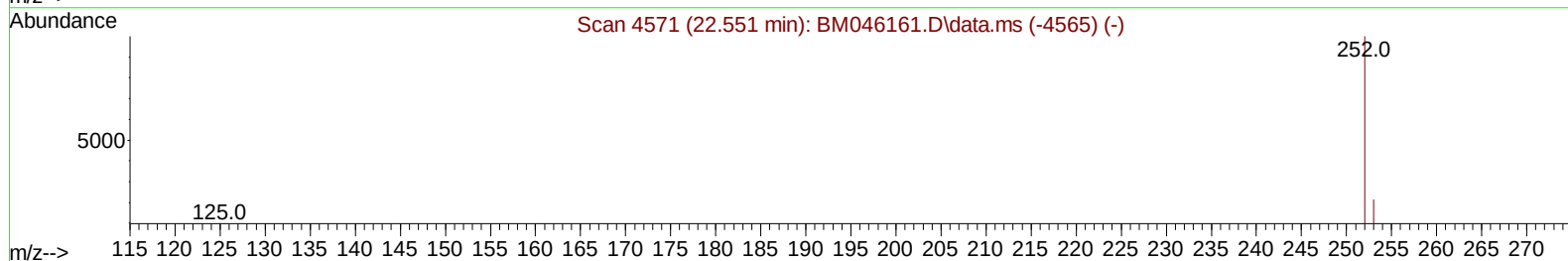
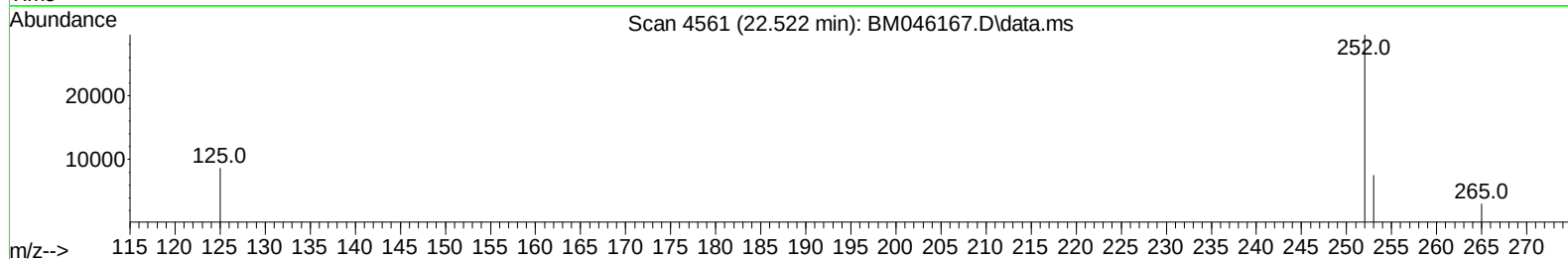
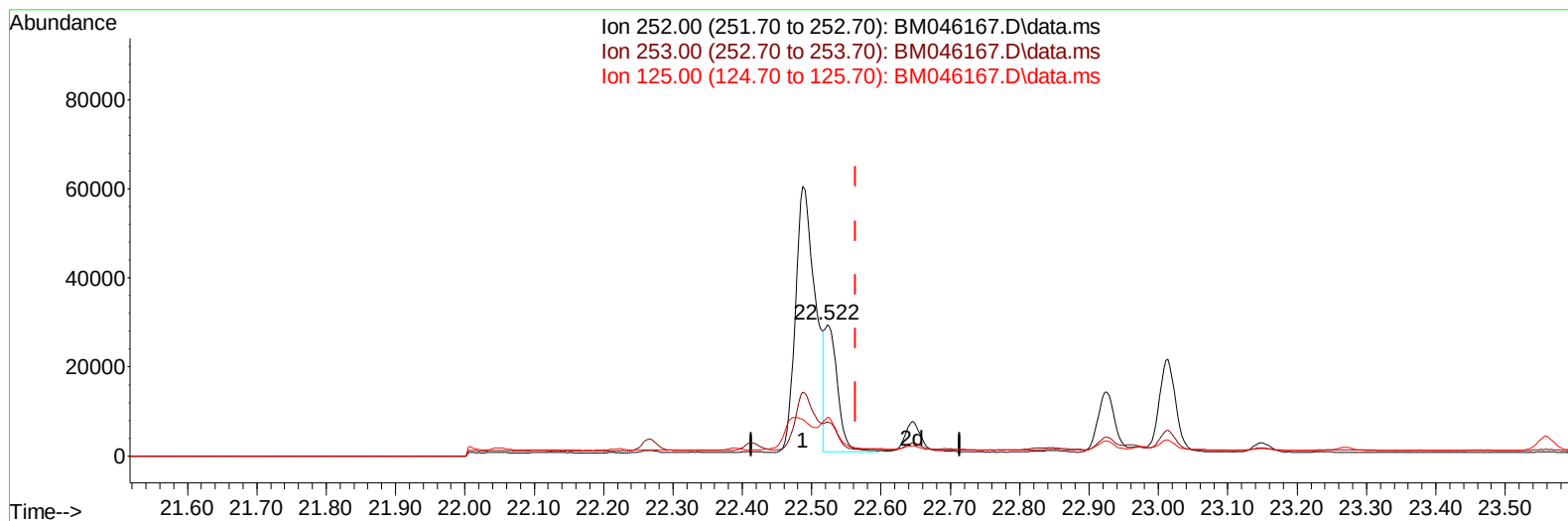
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
Data File : BM046167.D
Acq On : 21 Jun 2024 19:29
Operator : MA/JU
Sample : P2754-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4BQ1

Manual IntegrationsAPPROVED

Quant Time: Jun 21 22:27:44 2024
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TIC: BM046167.D\data.ms

(25) Benzo(k)fluoranthene

22.522min (-0.041) 1.23 ng/ul m

response 36318

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	34.00	25.69#
125.00	20.80	29.38#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM062024\
 Data File : BM046167.D
 Acq On : 21 Jun 2024 19:29
 Operator : MA/JU
 Sample : P2754-17
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4BQ1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/24/2024
 Supervised By :mohammad ahmed 06/24/2024

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.417	152	2271	0.400	ng/ul	-0.05
4) Naphthalene-d8	10.187	136	6787	0.400	ng/ul	-0.07
9) Acenaphthene-d10	14.066	164	3721	0.400	ng/ul	#-0.05
13) Phenanthrene-d10	16.811	188	7659m	0.400	ng/ul	-0.05
17) Chrysene-d12	21.012	240	6215m	0.400	ng/ul	-0.03
23) Perylene-d12	23.104	264	6905m	0.400	ng/ul	-0.04
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.029	96	14683	4.712	ng/ul	-0.02
6) 2-Methylnaphthalene-d10	11.810	152	3238	0.355	ng/ul	-0.05
18) Fluoranthene-d10	18.843	212	6816	0.366	ng/ul	-0.04
Target Compounds						
						Qvalue
5) Naphthalene	10.237	128	2912	0.154	ng/ul#	96
7) 2-Methylnaphthalene	11.881	142	915	0.086	ng/ul	100
8) 1-Methylnaphthalene	12.101	142	620	0.053	ng/ul	98
10) Acenaphthylene	13.784	152	5072	0.287	ng/ul	99
11) Acenaphthene	14.126	153	1264	0.099	ng/ul	96
12) Fluorene	15.121	166	1749	0.128	ng/ul#	98
15) Phenanthrene	16.849	178	47313m	2.199	ng/ul	
16) Anthracene	16.942	178	8167m	0.510	ng/ul	
19) Fluoranthene	18.875	202	138453	5.145	ng/ul	95
20) Pyrene	19.238	202	95259	3.273	ng/ul	95
21) Benzo(a)anthracene	20.994	228	52989m	2.207	ng/ul	
22) Chrysene	21.047	228	74878	2.444	ng/ul	99
24) Benzo(b)fluoranthene	22.487	252	120226m	4.833	ng/ul	
25) Benzo(k)fluoranthene	22.522	252	36318m	1.228	ng/ul	
26) Benzo(a)pyrene	23.014	252	35219	1.528	ng/ul#	79
27) Indeno(1,2,3-cd)pyrene	25.152	276	41918	1.111	ng/ul#	98
28) Dibenzo(a,h)anthracene	25.156	278	13289	0.473	ng/ul#	81
29) Benzo(g,h,i)perylene	25.773	276	6406	0.198	ng/ul#	84

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

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