

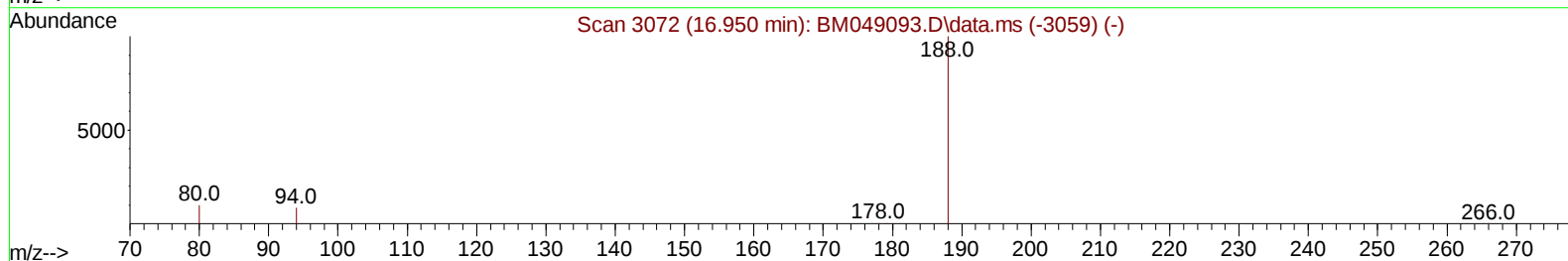
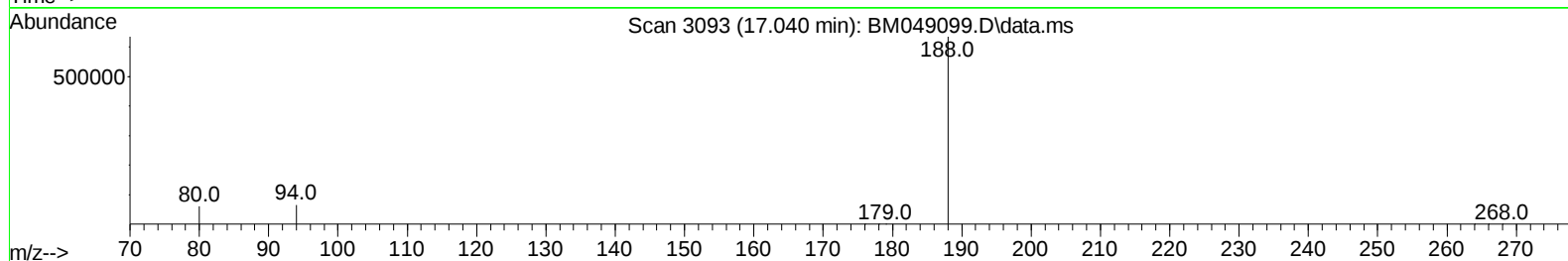
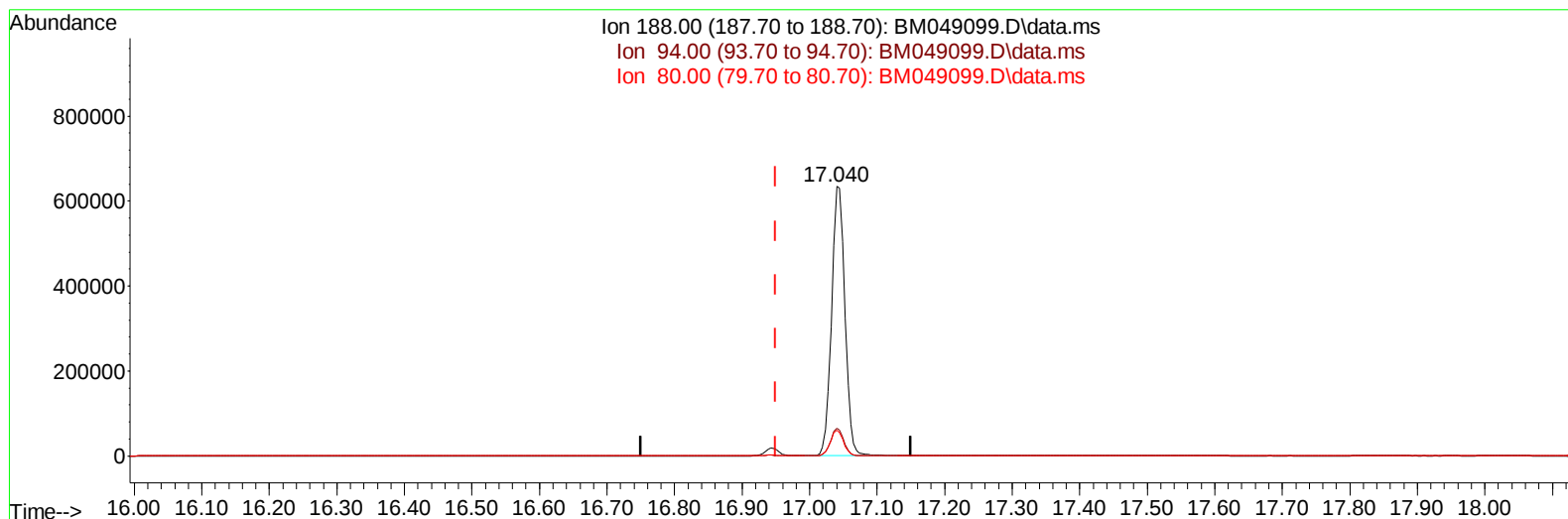
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(13) Phenanthrene-d10 (I)

17.040min (+ 0.090) 0.40 ng/u1

response 873684

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	9.80	10.34
80.00	10.70	9.52
0.00	0.00	0.00

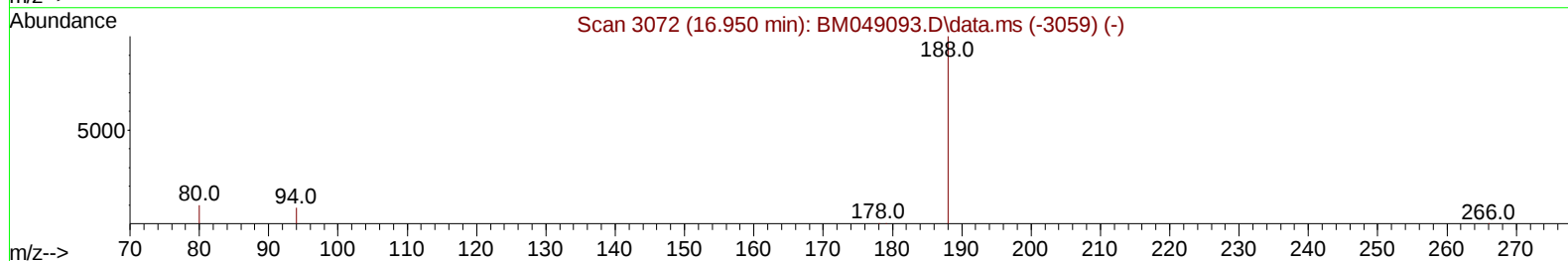
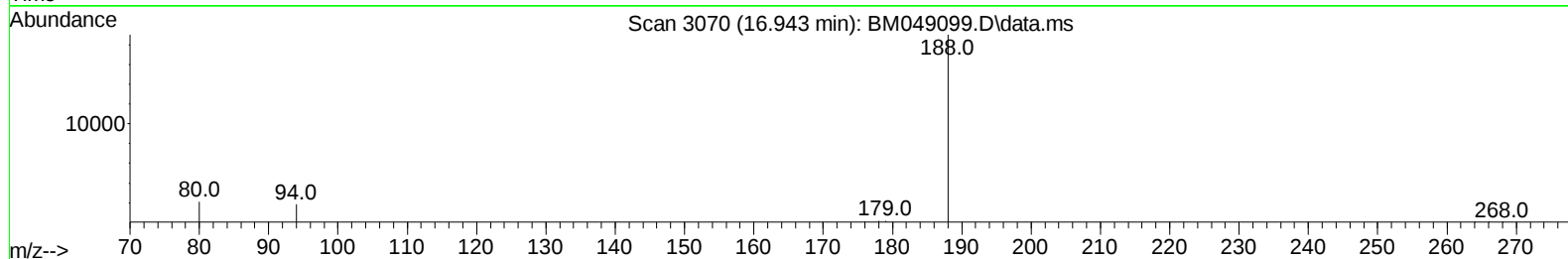
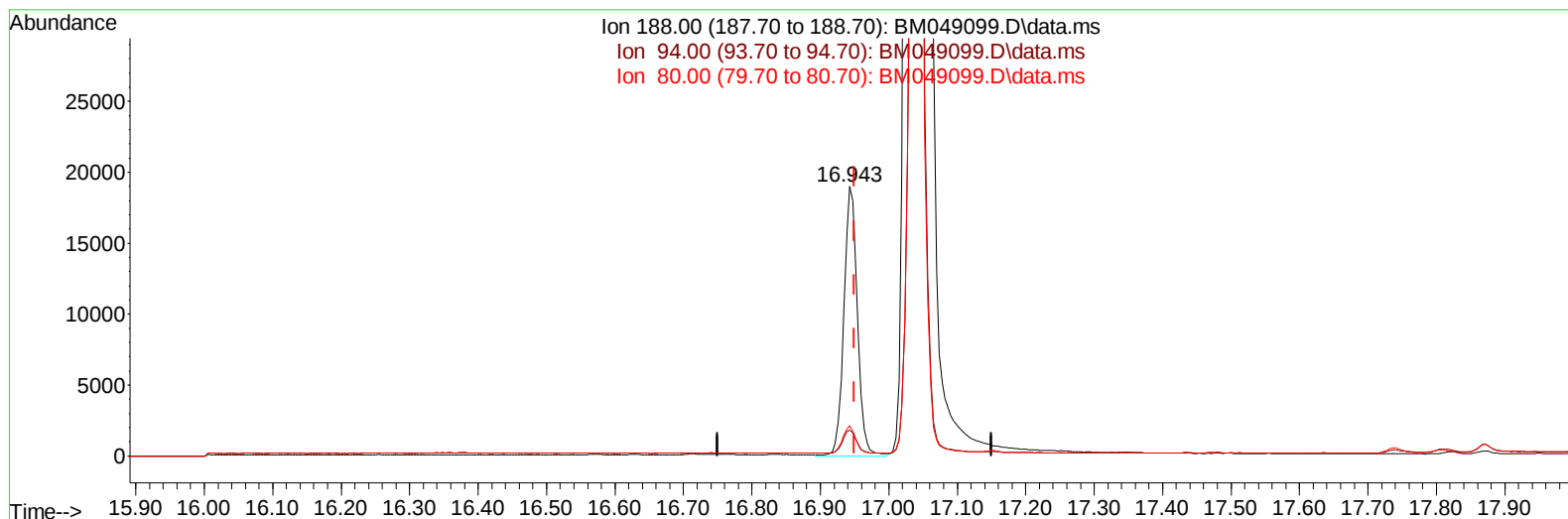
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
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QLast Update : Wed Dec 18 15:33:13 2024
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Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(13) Phenanthrene-d10 (I)

16.943min (-0.007) 0.40 ng/ul m

response 26183

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	9.80	9.64
80.00	10.70	11.13
0.00	0.00	0.00

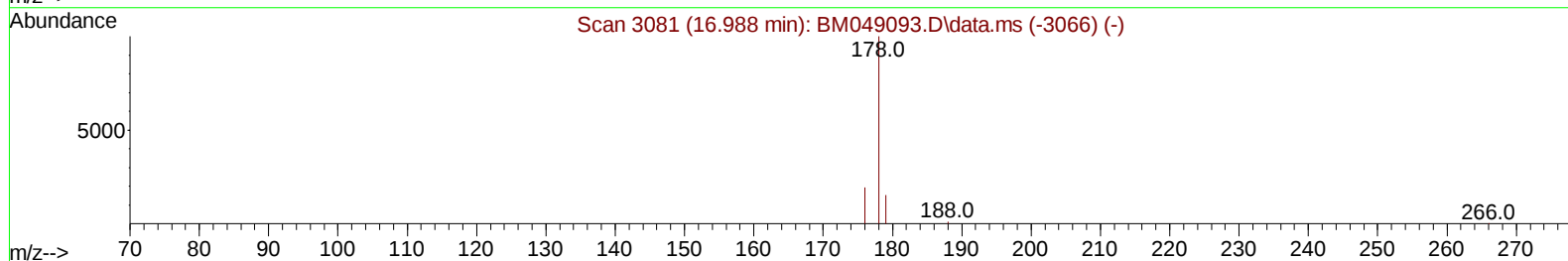
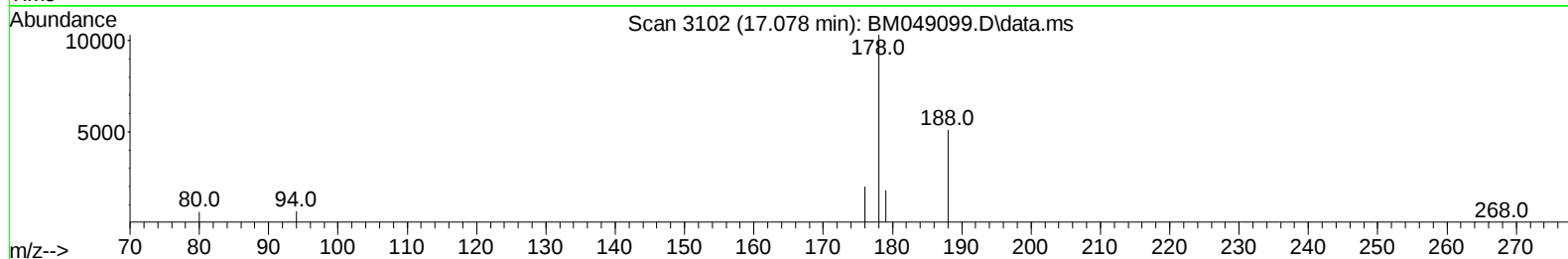
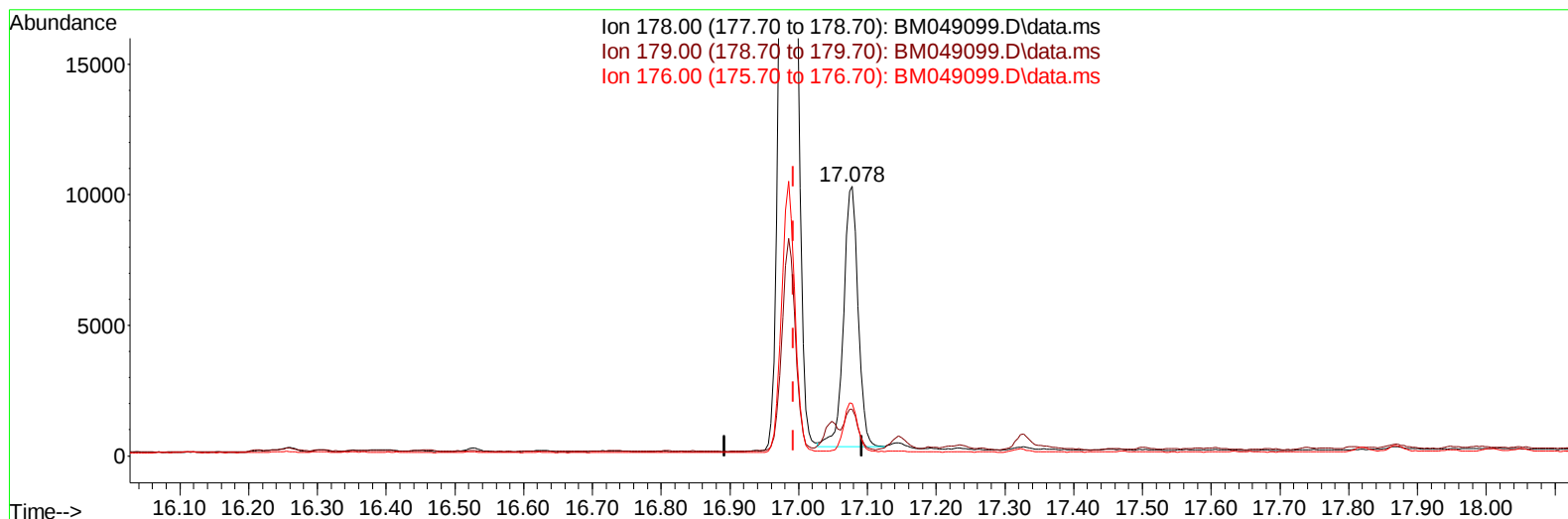
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
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QLast Update : Wed Dec 18 15:33:13 2024
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Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(15) Phenanthrene

17.078min (+ 0.086) 0.21 ng/u1

response 14626

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.20	17.28
176.00	20.20	19.36
0.00	0.00	0.00

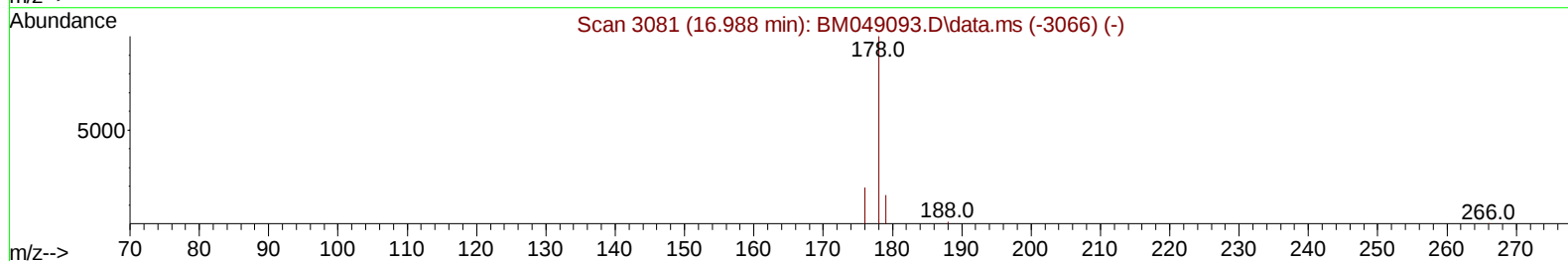
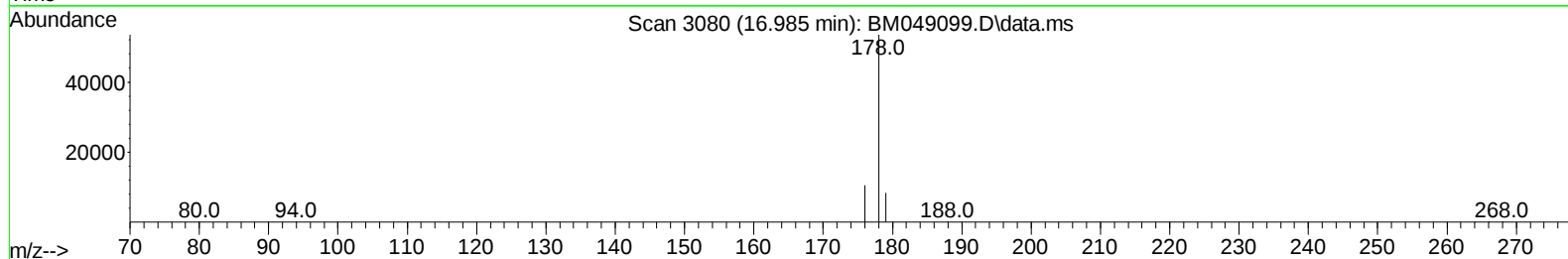
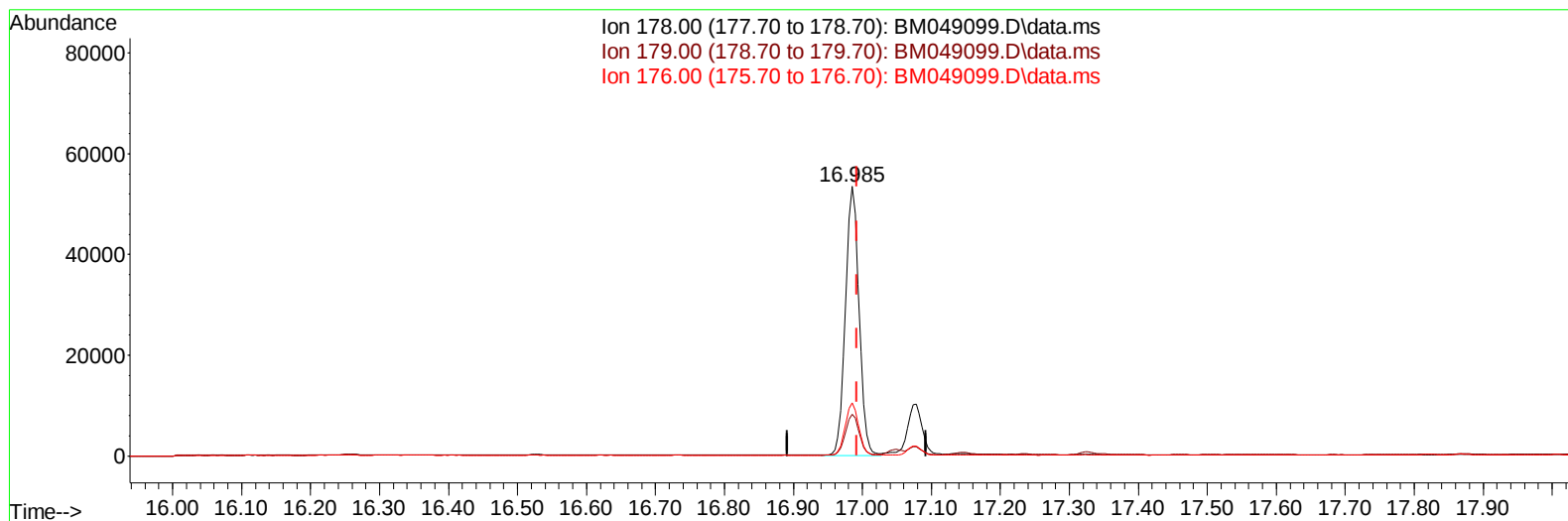
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
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Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(15) Phenanthrene

16.985min (-0.007) 1.07 ng/u1 m

response 73023

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.20	15.57
176.00	20.20	19.65
0.00	0.00	0.00

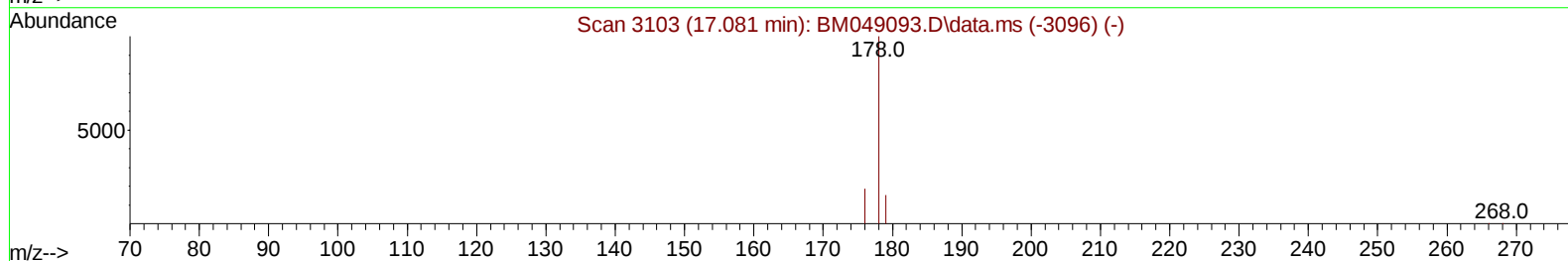
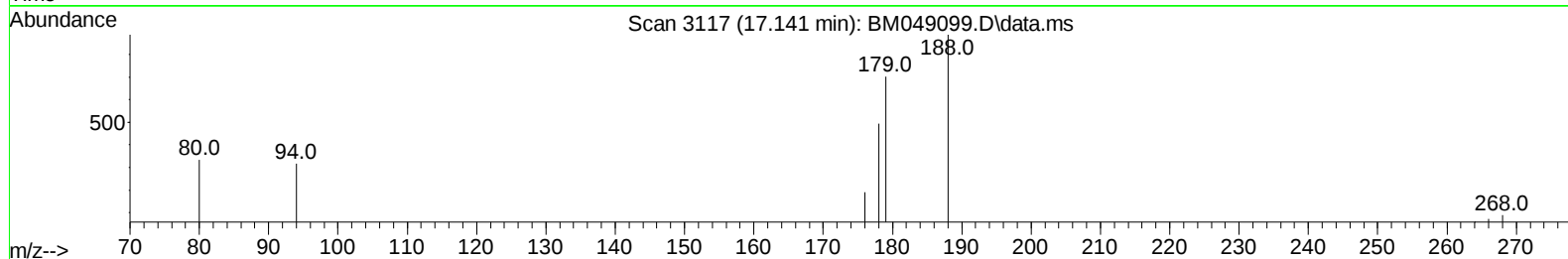
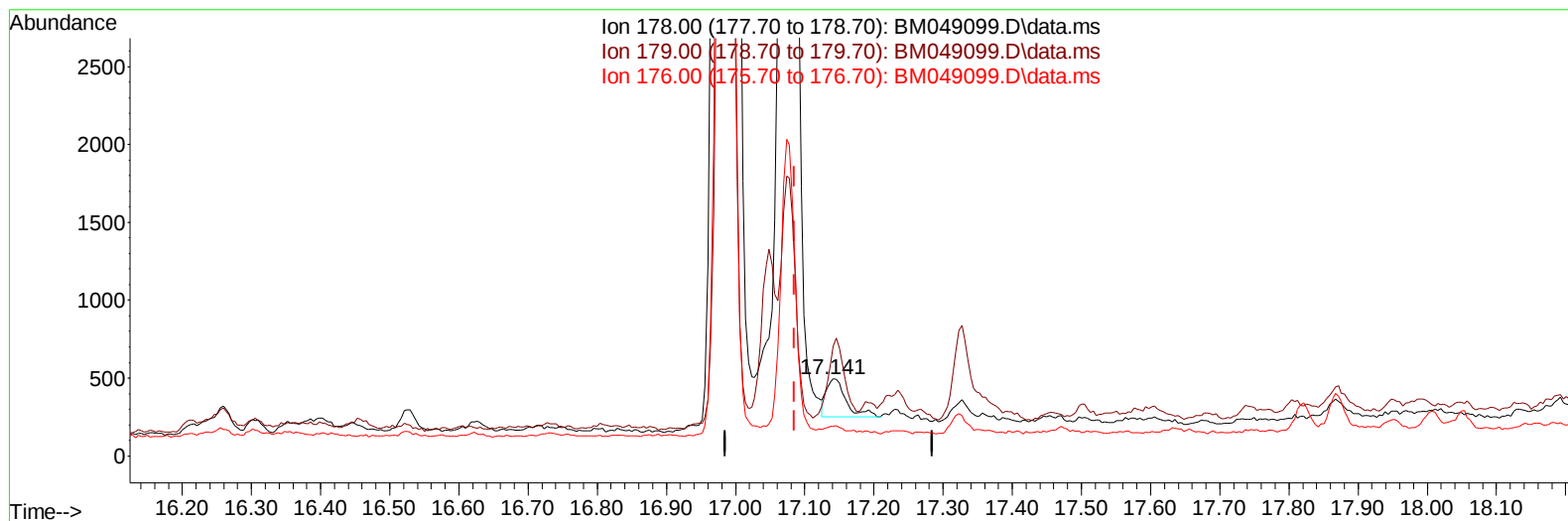
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

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TIC: BM049099.D\data.ms

(16) Anthracene

17.141min (+ 0.056) 0.01 ng/u1

response 488

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.10	141.82#
176.00	19.10	38.59#
0.00	0.00	0.00

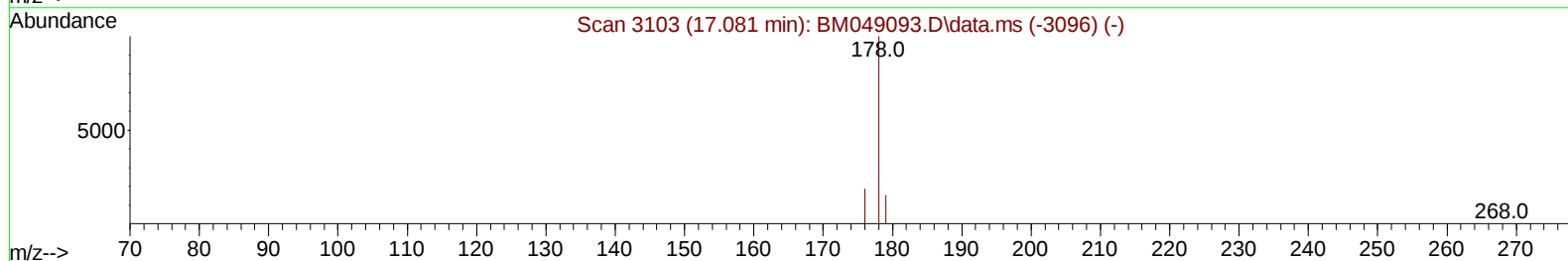
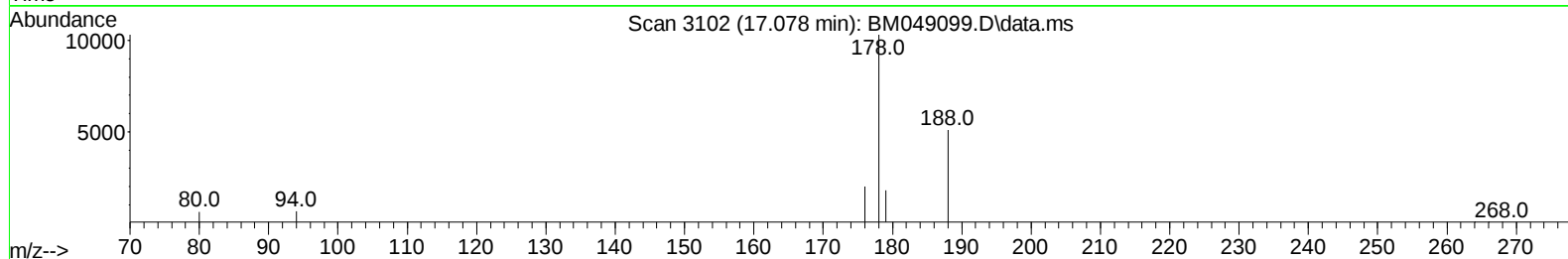
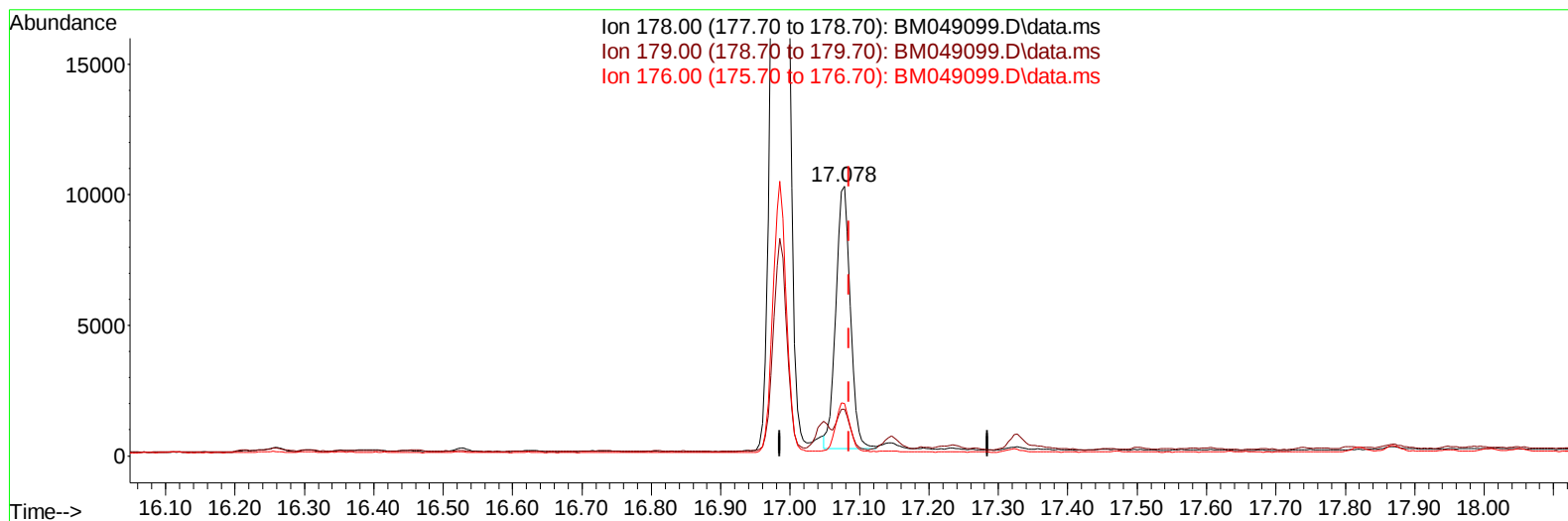
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(16) Anthracene

17.078min (-0.007) 0.23 ng/ul m

response 14577

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.10	17.28
176.00	19.10	19.36
0.00	0.00	0.00

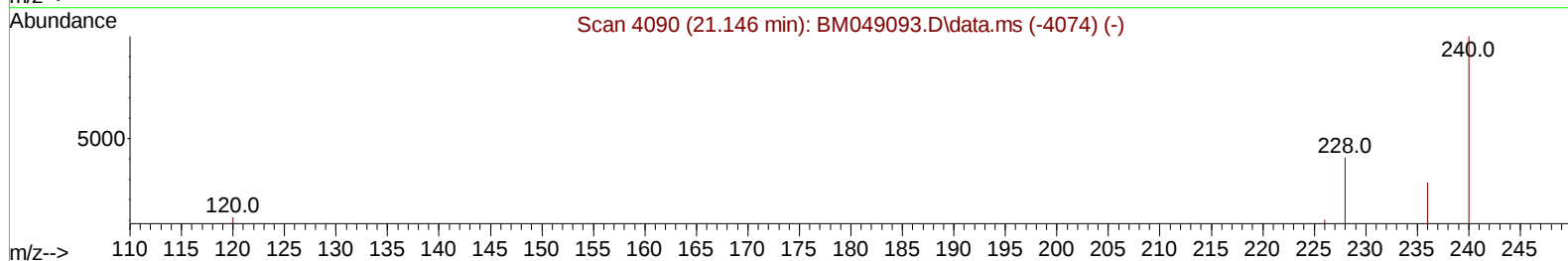
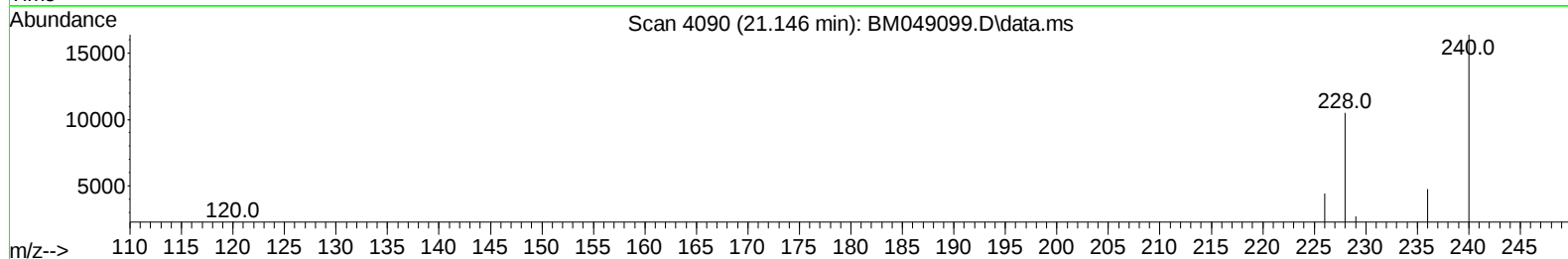
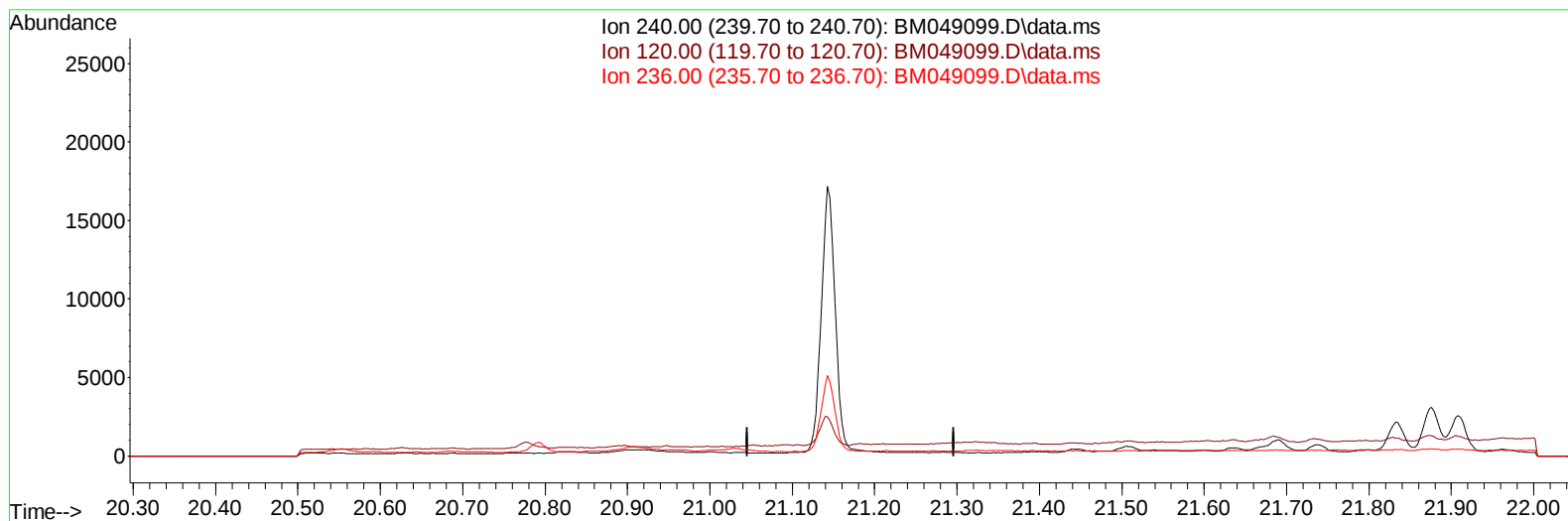
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
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TIC: BM049099.D\data.ms

(17) Chrysene-d12

21.146min (-21.146) 0.00 ng/u1

response 0

Ion	Exp%	Act%
240.00	100.00	0.00
120.00	14.50	0.00#
236.00	29.80	0.00#
0.00	0.00	0.00

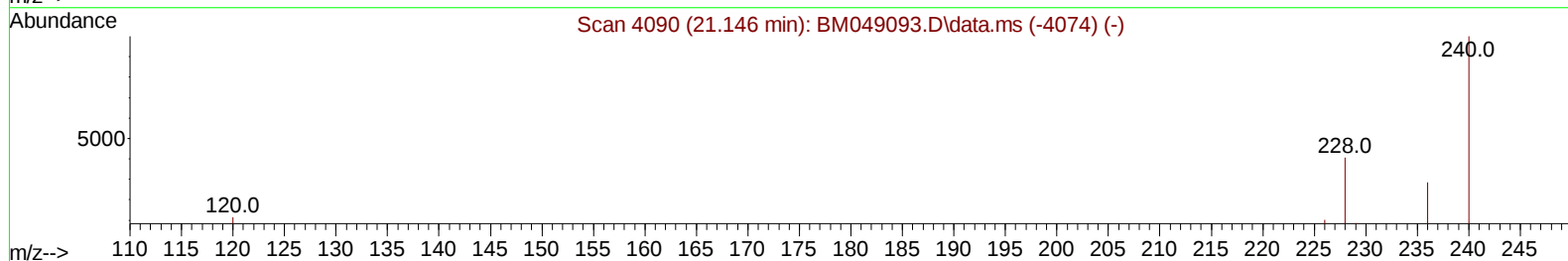
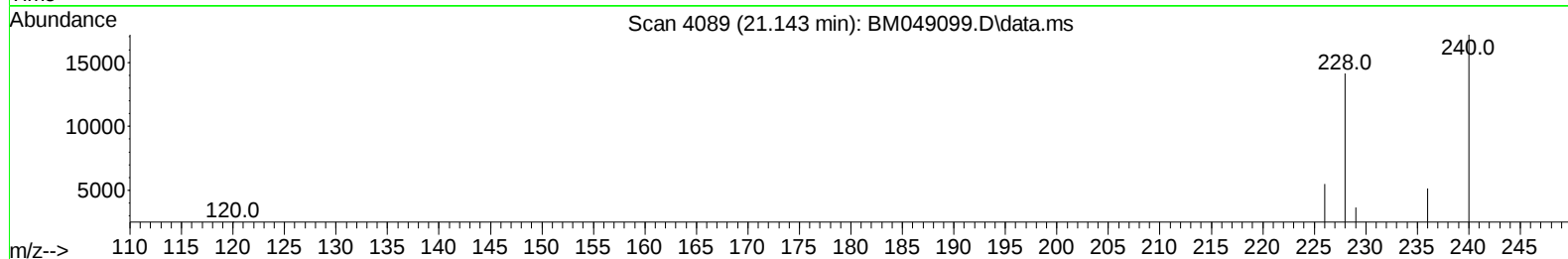
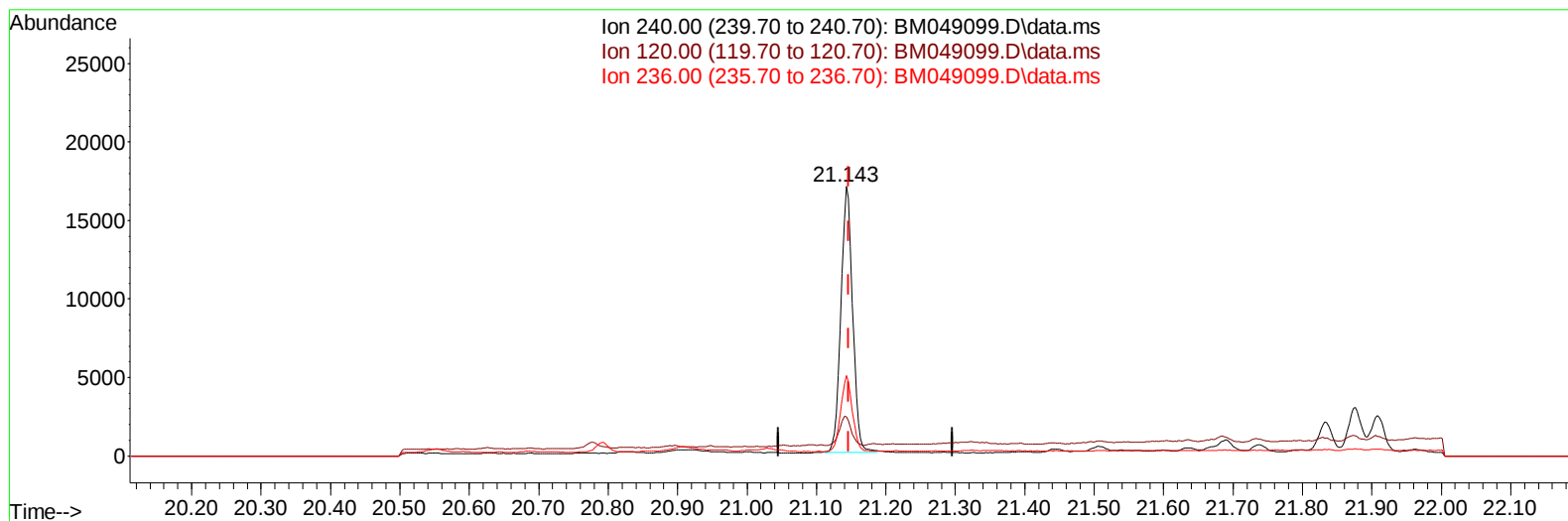
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(17) Chrysene-d12

21.143min (-0.003) 0.40 ng/ul m

response 19930

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	14.50	14.61
236.00	29.80	29.90
0.00	0.00	0.00

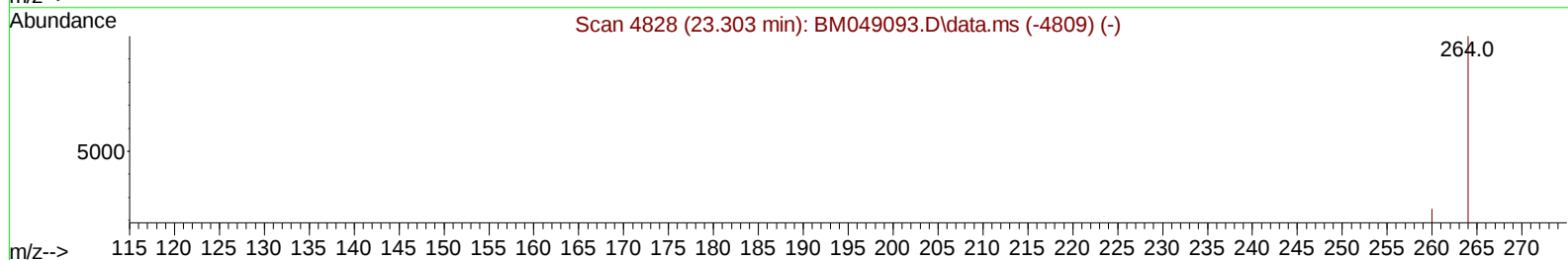
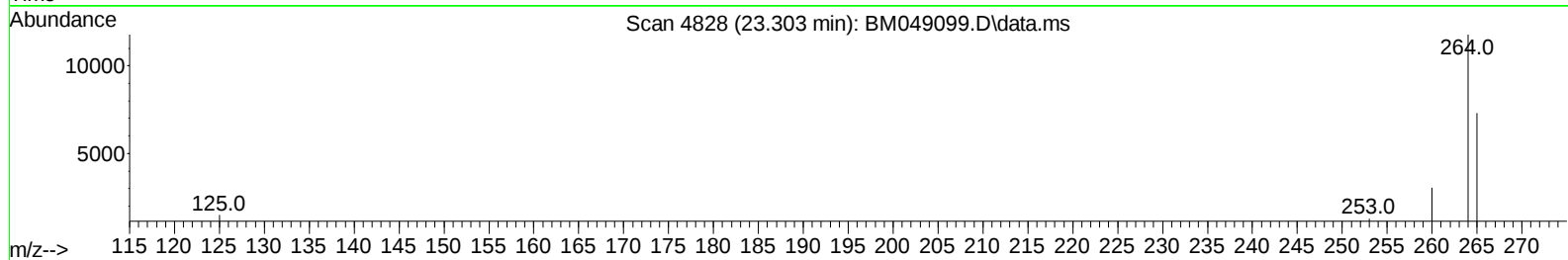
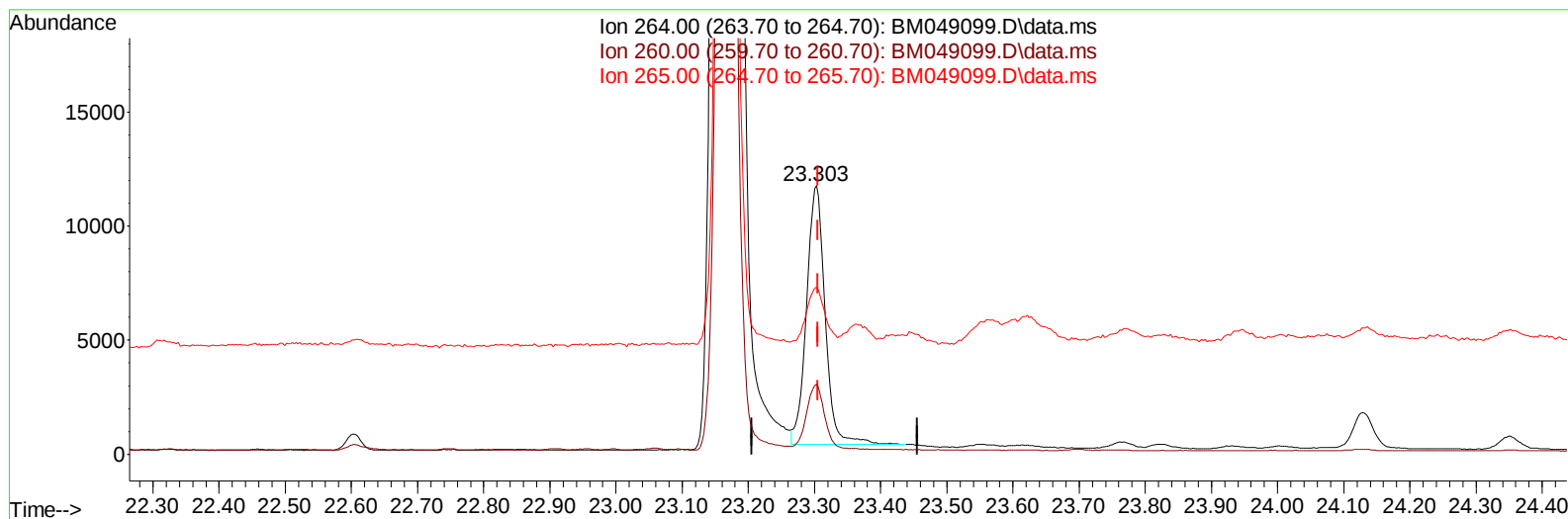
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
 Data File : BM049099.D
 Acq On : 20 Dec 2024 13:51
 Operator : RC/JU
 Sample : P5265-09
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
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TIC: BM049099.D\data.ms

(23) Perylene-d12 (I)

23.303min (-0.003) 0.40 ng/u1

response 22086

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	25.80	25.97
265.00	78.30	62.05#
0.00	0.00	0.00

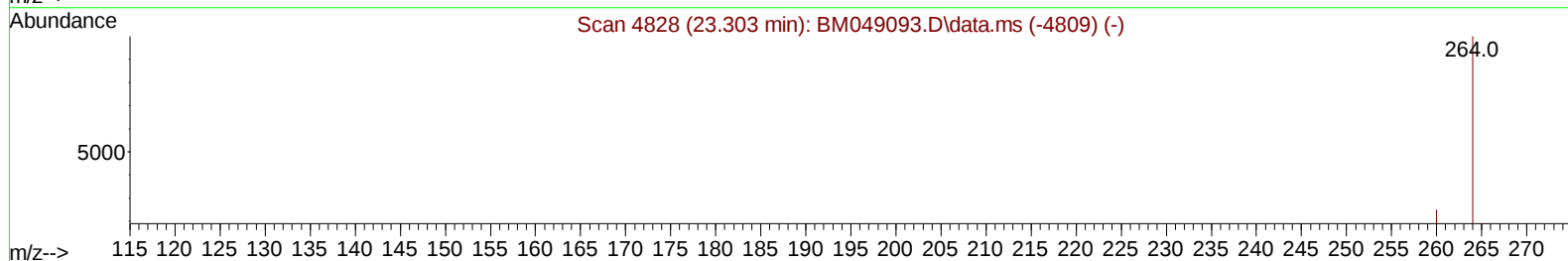
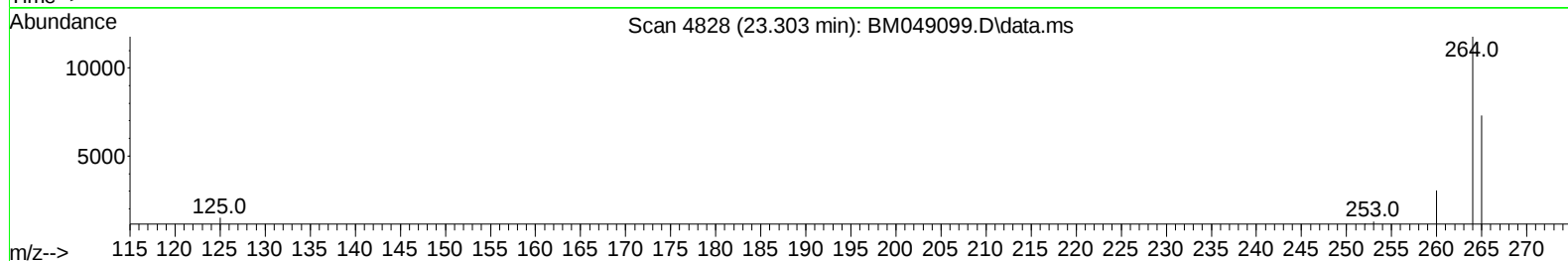
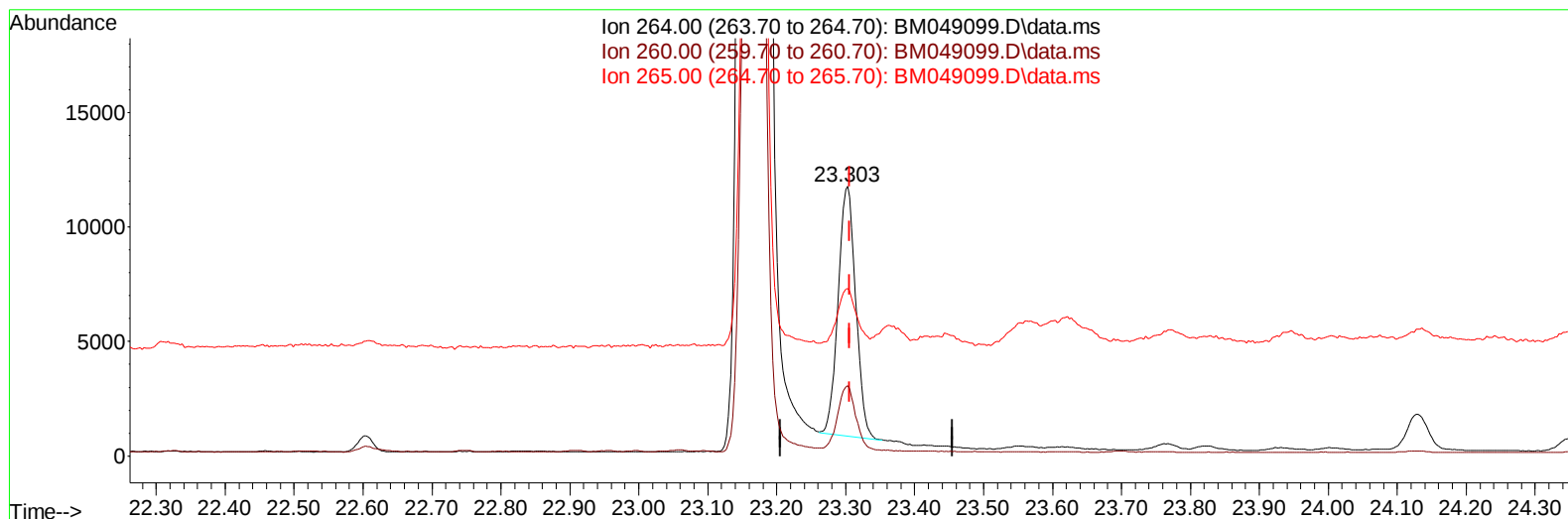
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
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TIC: BM049099.D\data.ms

(23) Perylene-d12 (I)

23.303min (-0.003) 0.40 ng/ul m

response 19329

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	25.80	25.97
265.00	78.30	62.05#
0.00	0.00	0.00

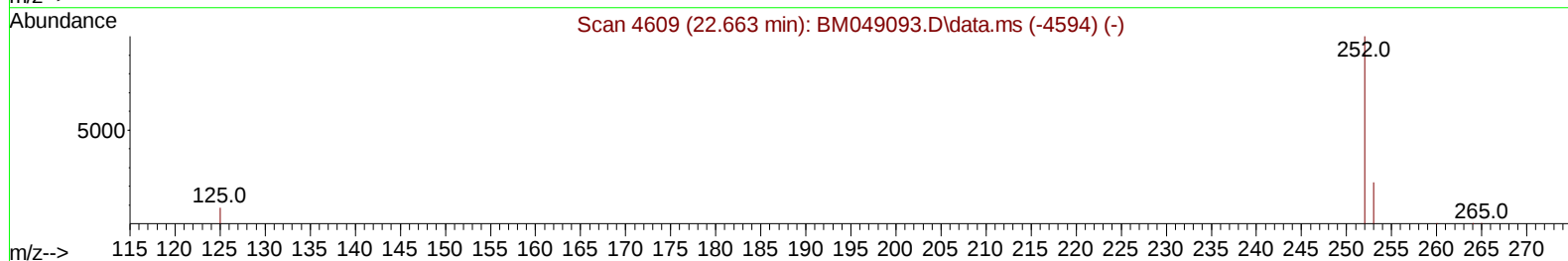
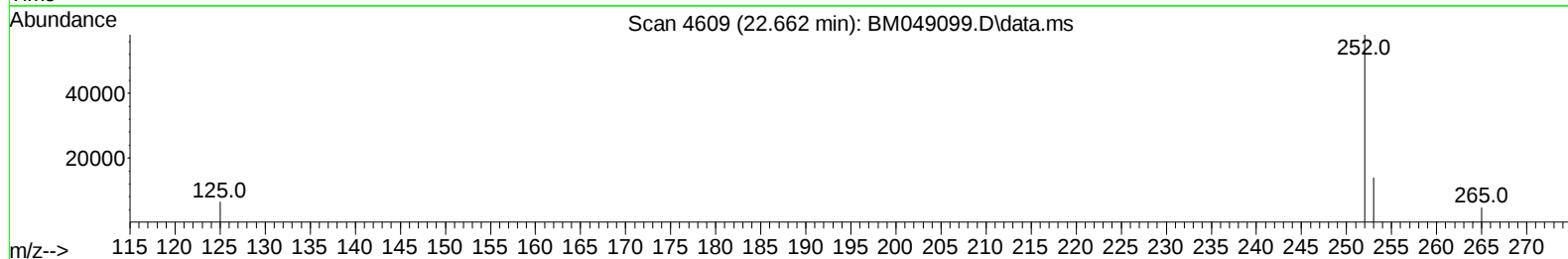
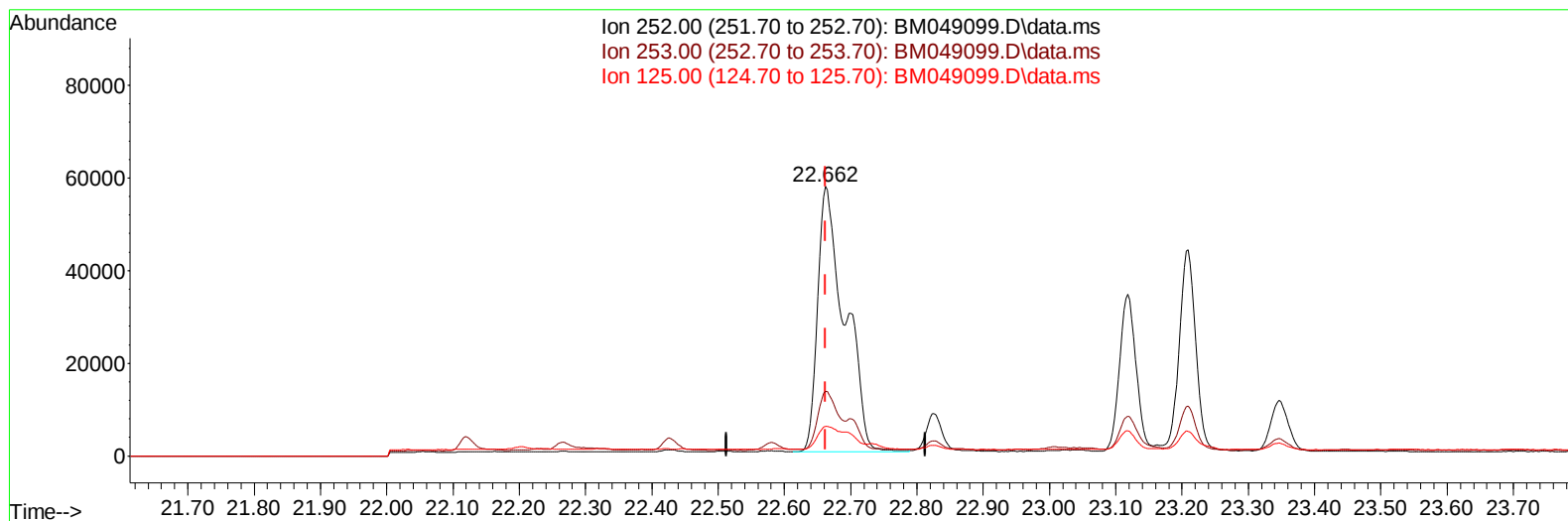
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

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TIC: BM049099.D\data.ms

(24) Benzo(b)fluoranthene

22.662min (-0.000) 2.64 ng/u1

response 162735

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.30	24.01
125.00	15.40	11.04
0.00	0.00	0.00

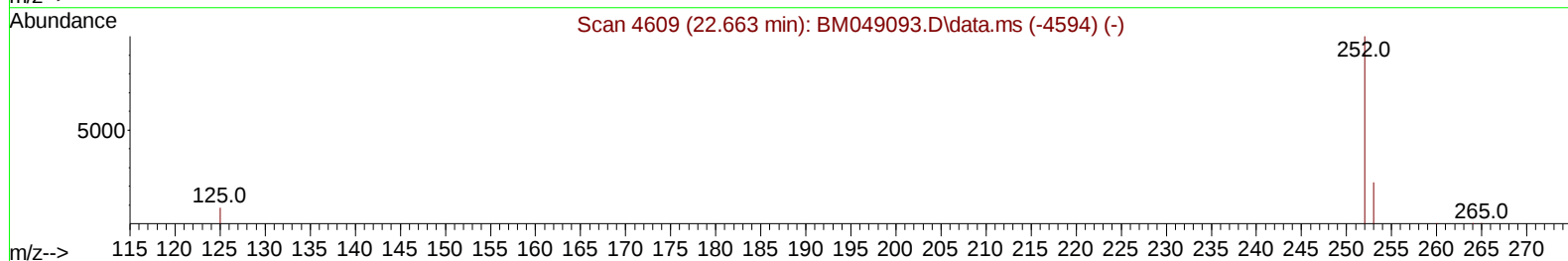
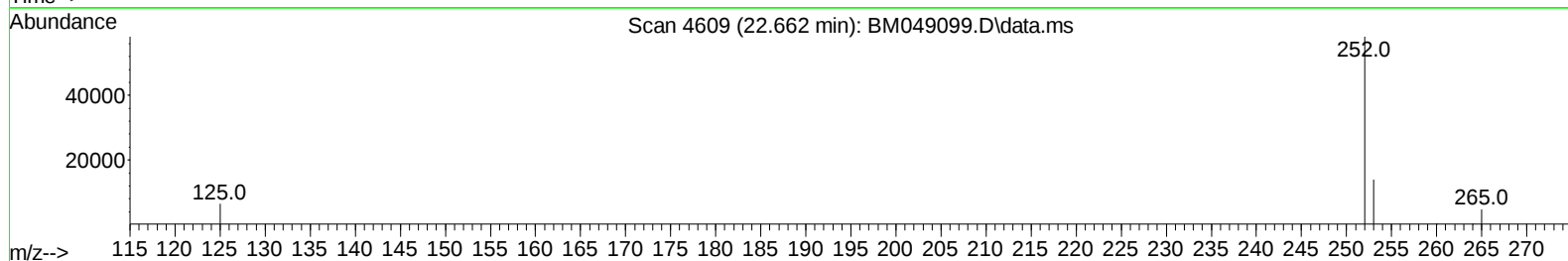
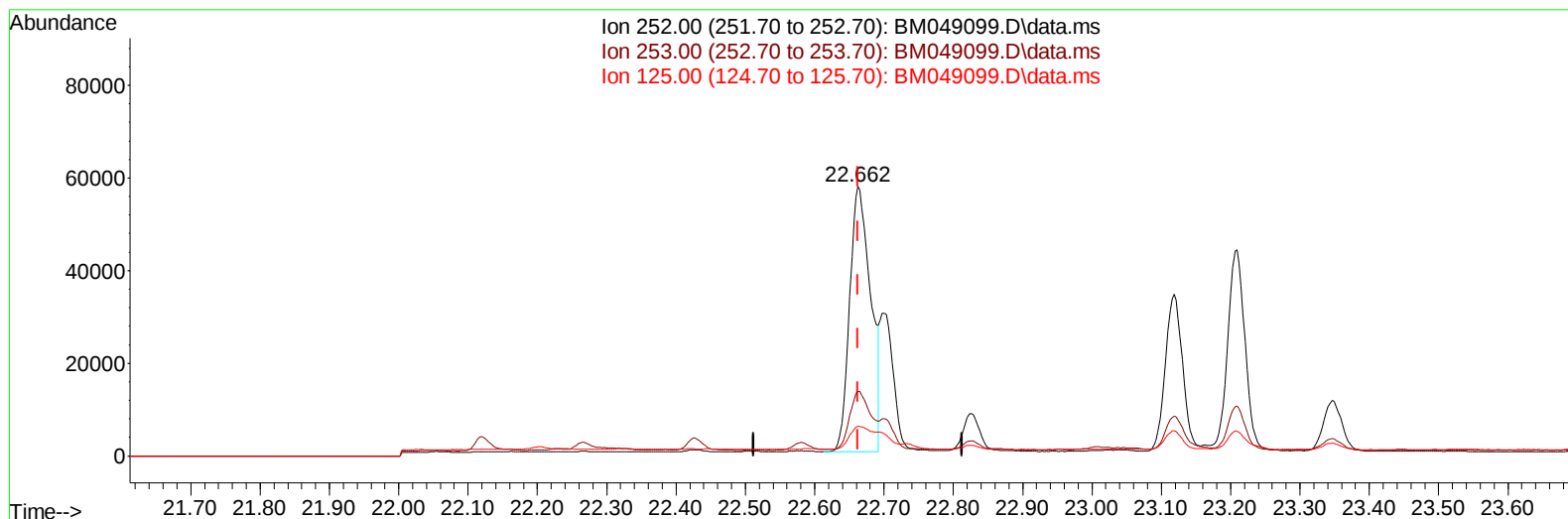
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
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Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

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Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(24) Benzo(b)fluoranthene

22.662min (-0.000) 1.97 ng/u1 m

response 121353

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.30	24.01
125.00	15.40	11.04
0.00	0.00	0.00

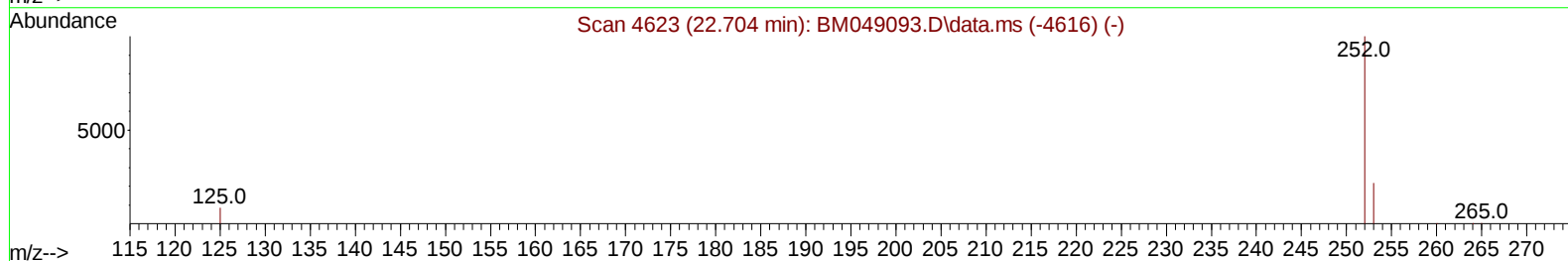
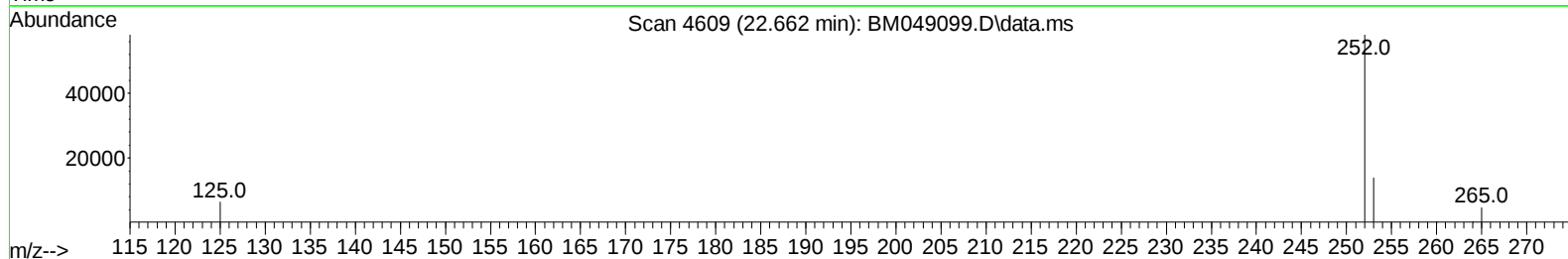
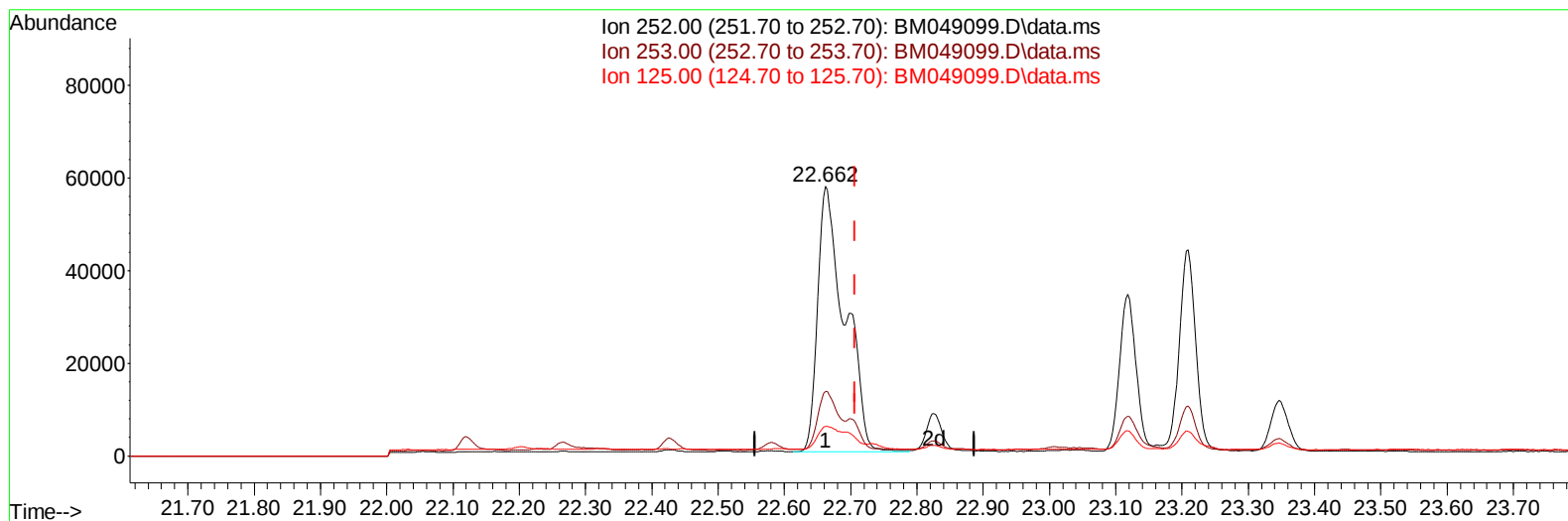
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration



TIC: BM049099.D\data.ms

(25) Benzo(k)fluoranthene

22.662min (-0.044) 2.40 ng/u1

response 162735

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.60	24.01
125.00	15.70	11.04#
0.00	0.00	0.00

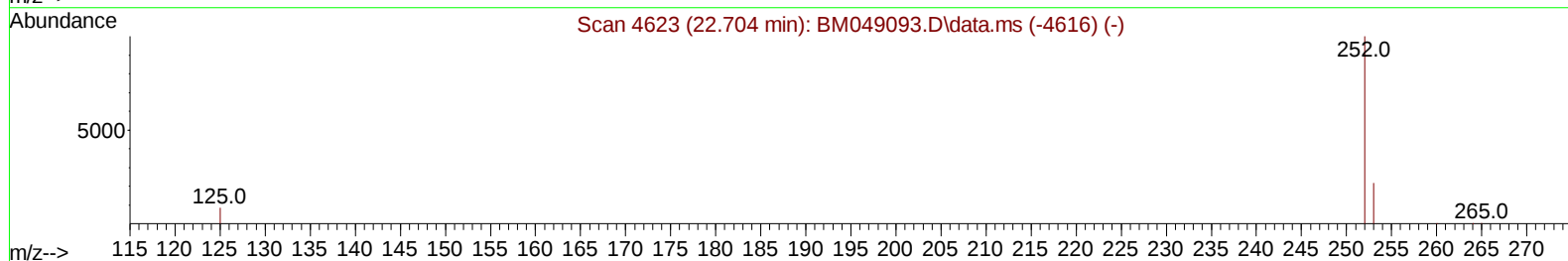
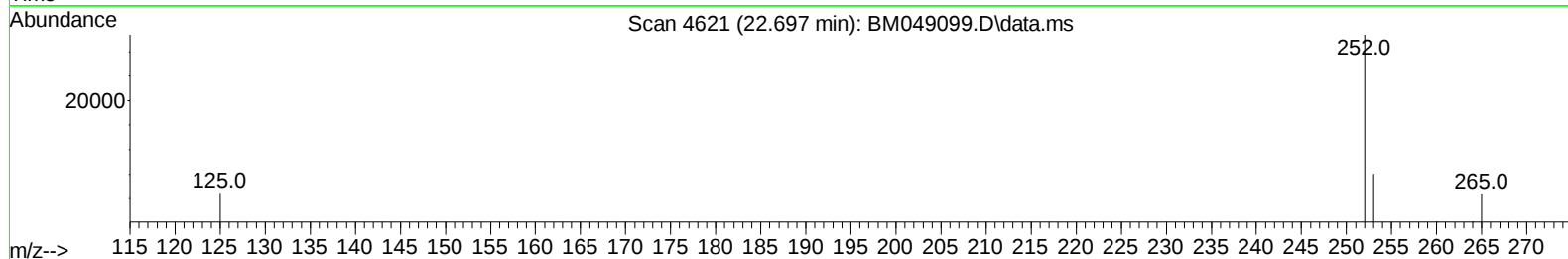
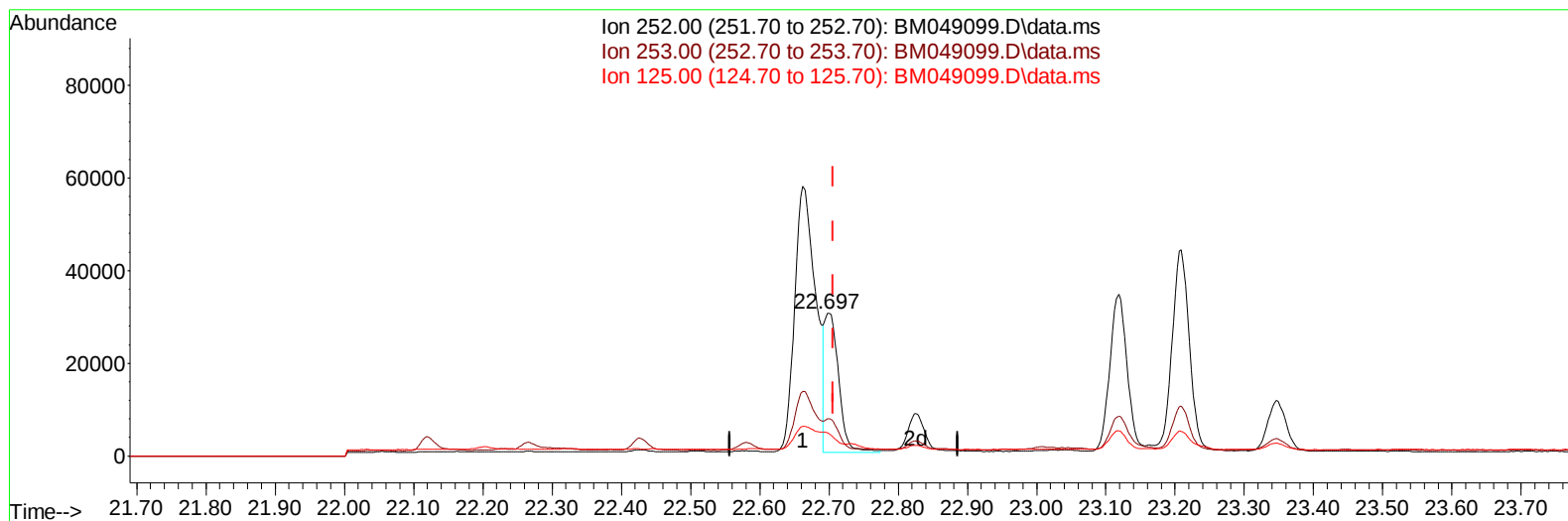
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



TIC: BM049099.D\data.ms

(25) Benzo(k)fluoranthene

22.697min (-0.009) 0.61 ng/u1 m

response 41527

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.60	26.16
125.00	15.70	16.24
0.00	0.00	0.00

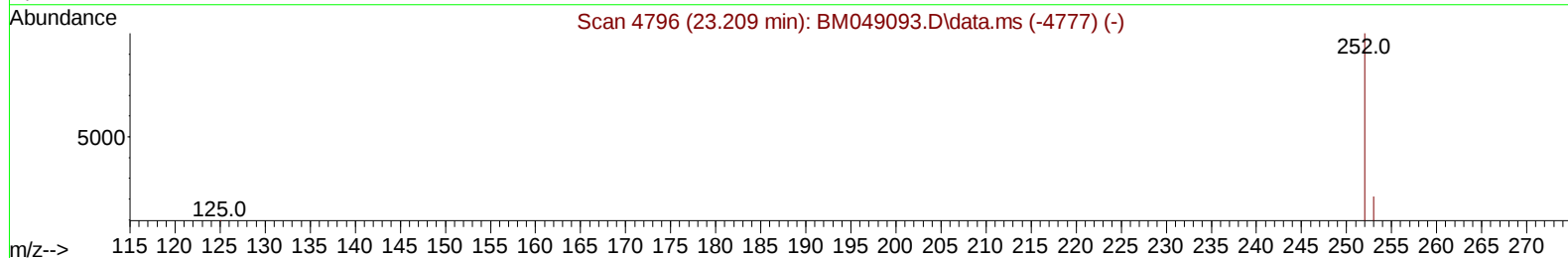
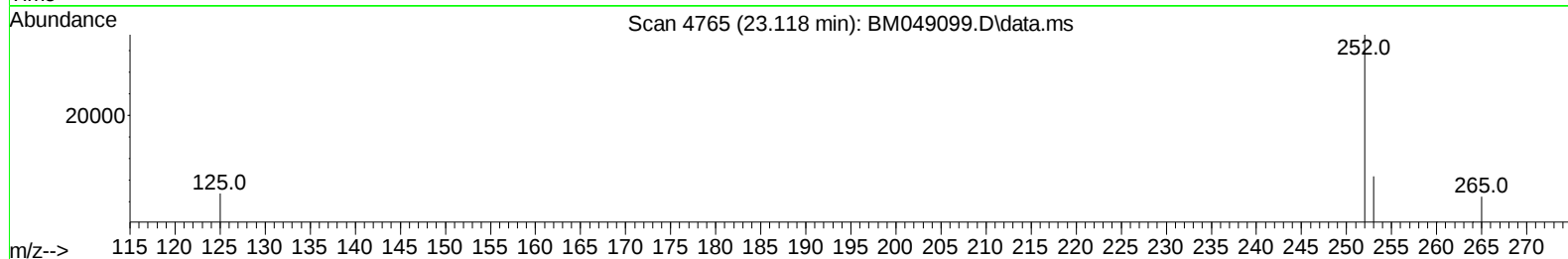
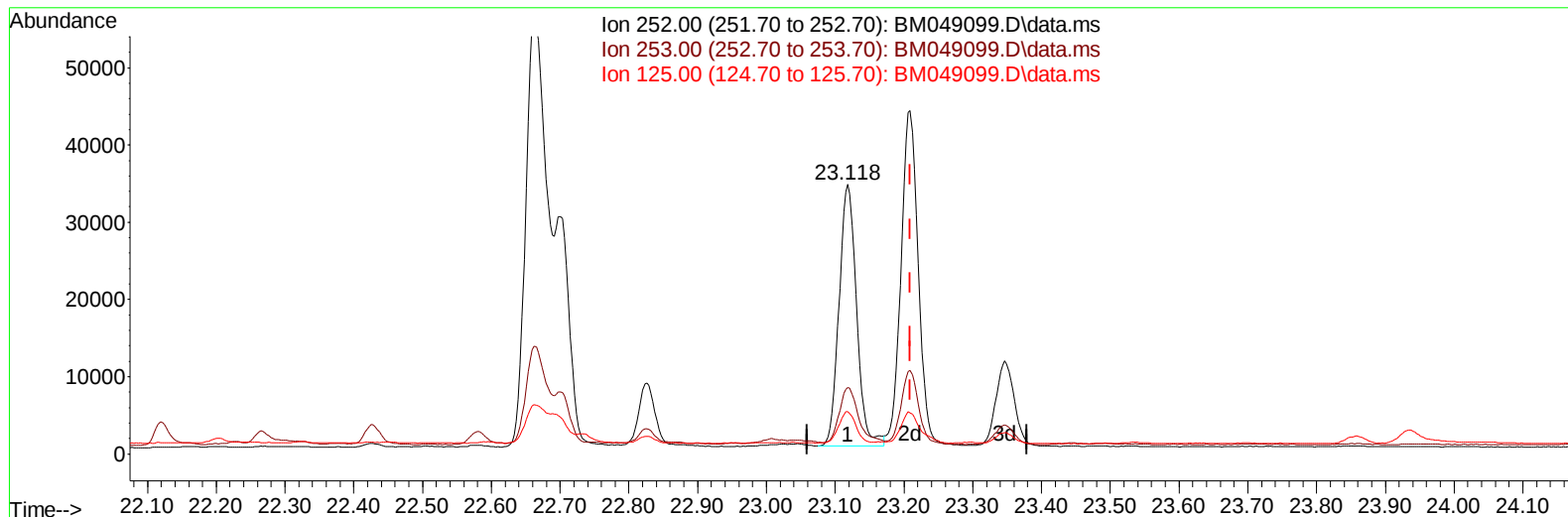
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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TIC: BM049099.D\data.ms

(26) Benzo(a)pyrene (C)

23.118min (-0.091) 1.02 ng/u1

response 60209

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.00	24.77
125.00	18.50	15.66
0.00	0.00	0.00

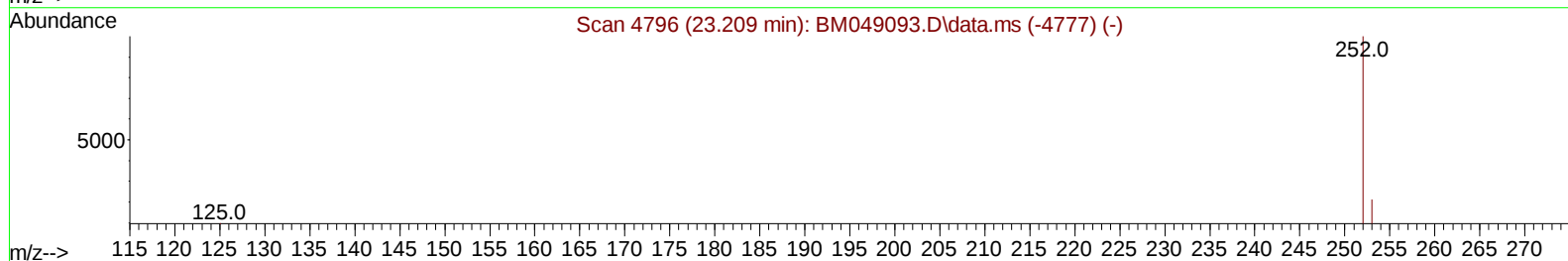
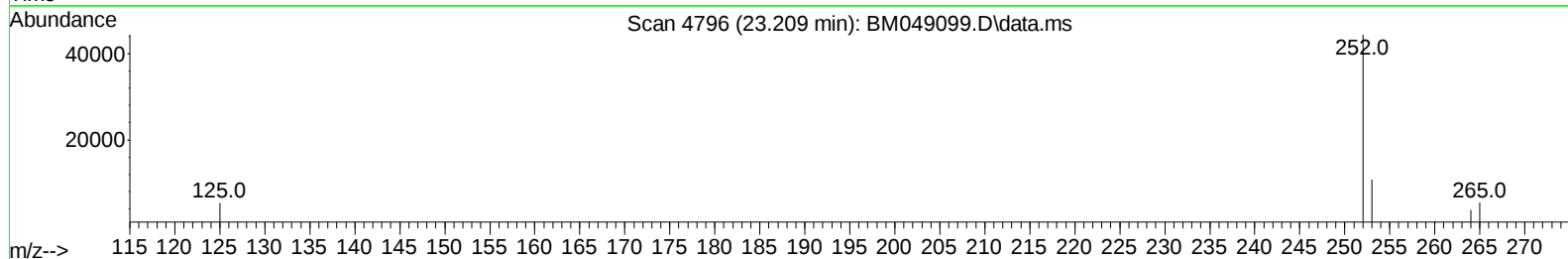
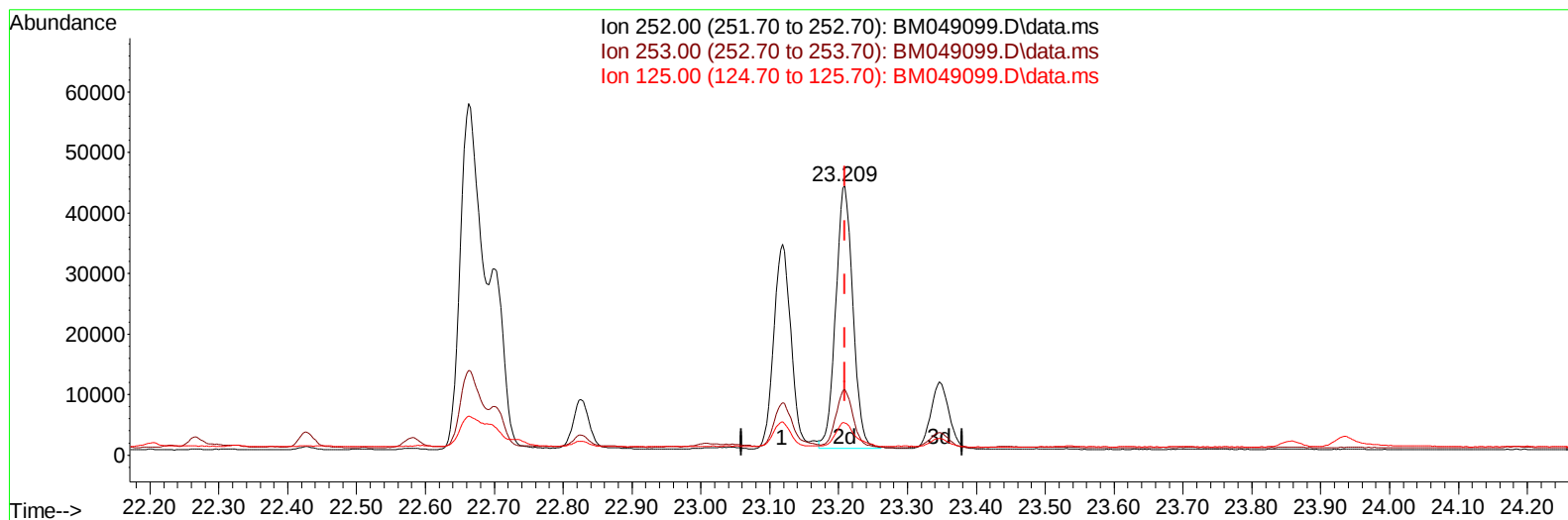
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
Data File : BM049099.D
Acq On : 20 Dec 2024 13:51
Operator : RC/JU
Sample : P5265-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM121824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 18 15:33:13 2024
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TIC: BM049099.D\data.ms

(26) Benzo(a)pyrene (C)

23.209min (-0.000) 1.27 ng/u1 m

response 75453

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.00	24.35
125.00	18.50	11.99#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122024\
 Data File : BM049099.D
 Acq On : 20 Dec 2024 13:51
 Operator : RC/JU
 Sample : P5265-09
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E28Z4

Manual IntegrationsAPPROVED

Quant Time: Dec 20 14:30:32 2024
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	6831	0.400	ng/ul	0.00
4) Naphthalene-d8	10.321	136	21121	0.400	ng/ul	0.00
9) Acenaphthene-d10	14.197	164	11912	0.400	ng/ul	0.00
13) Phenanthrene-d10	16.943	188	26183m	0.400	ng/ul	0.00
17) Chrysene-d12	21.143	240	19930m	0.400	ng/ul	0.00
23) Perylene-d12	23.303	264	19329m	0.400	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.151	96	27896	3.541	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.921	152	5404	0.190	ng/ul	0.00
18) Fluoranthene-d10	18.979	212	8290	0.147	ng/ul	0.00
Target Compounds						
					Qvalue	
5) Naphthalene	10.370	128	5737	0.109	ng/ul#	94
7) 2-Methylnaphthalene	11.992	142	2970	0.089	ng/ul	97
8) 1-Methylnaphthalene	12.218	142	2267	0.066	ng/ul	99
10) Acenaphthylene	13.915	152	5819	0.118	ng/ul#	92
11) Acenaphthene	14.257	153	2701	0.075	ng/ul	96
12) Fluorene	15.252	166	2348	0.058	ng/ul#	97
15) Phenanthrene	16.985	178	73023m	1.068	ng/ul	
16) Anthracene	17.078	178	14577m	0.232	ng/ul	
19) Fluoranthene	19.012	202	191166	2.653	ng/ul	97
20) Pyrene	19.374	202	163257	2.124	ng/ul	98
21) Benzo(a)anthracene	21.128	228	82533	1.191	ng/ul	99
22) Chrysene	21.181	228	90365	1.215	ng/ul	98
24) Benzo(b)fluoranthene	22.662	252	121353m	1.965	ng/ul	
25) Benzo(k)fluoranthene	22.697	252	41527m	0.613	ng/ul	
26) Benzo(a)pyrene	23.209	252	75453m	1.274	ng/ul	
27) Indeno(1,2,3-cd)pyrene	25.437	276	60803	0.725	ng/ul#	93
28) Dibenzo(a,h)anthracene	25.447	278	14023	0.215	ng/ul#	92
29) Benzo(g,h,i)perylene	26.094	276	65317	0.969	ng/ul	98

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

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Manual IntegrationsAPPROVED

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