

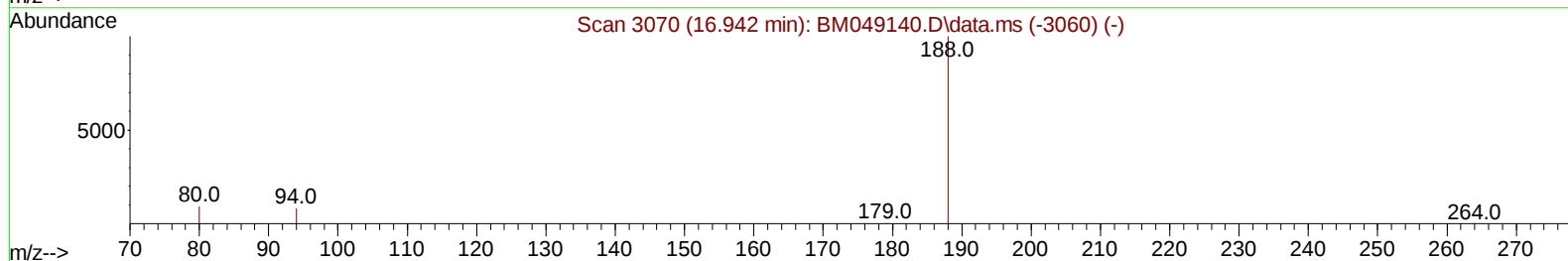
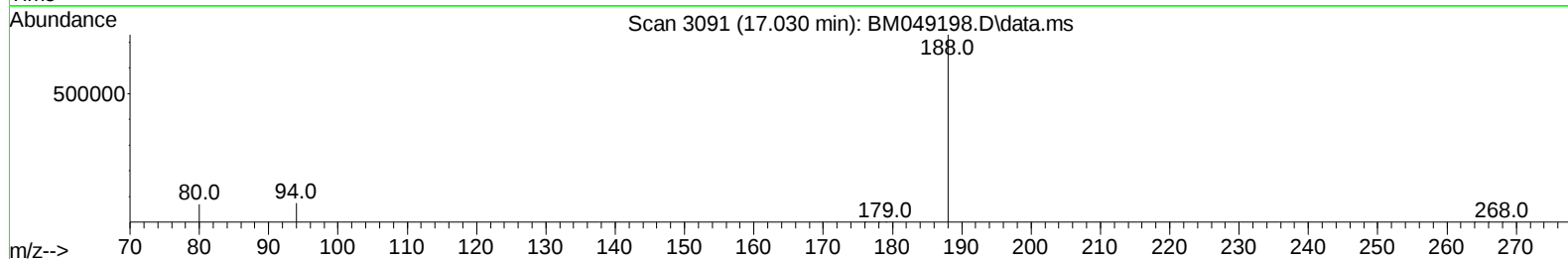
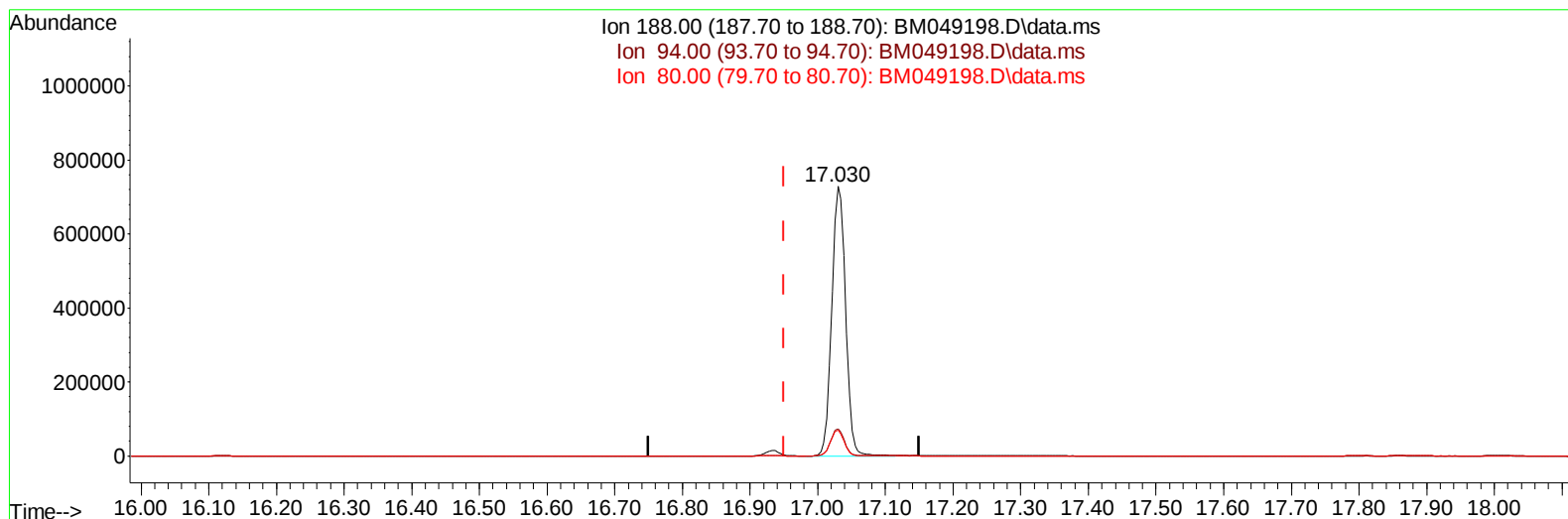
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(13) Phenanthrene-d10 (I)

17.030min (+ 0.080) 0.40 ng/u1

response 1032712

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	9.80	10.16
80.00	10.70	9.47
0.00	0.00	0.00

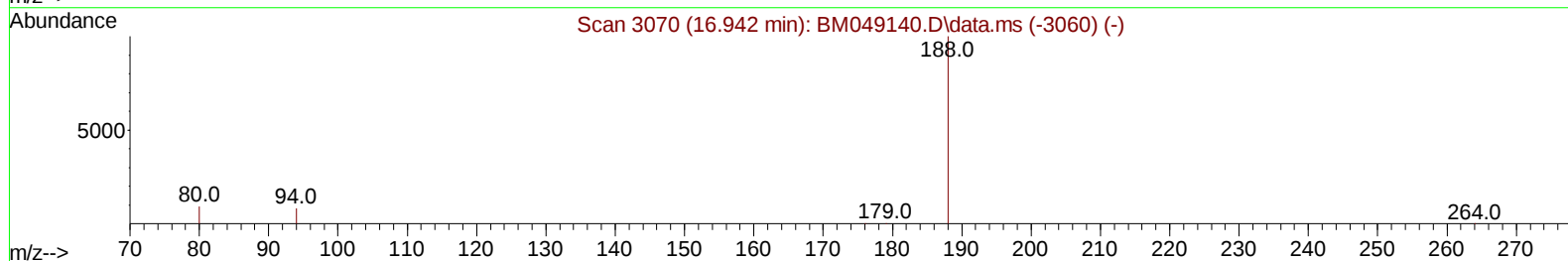
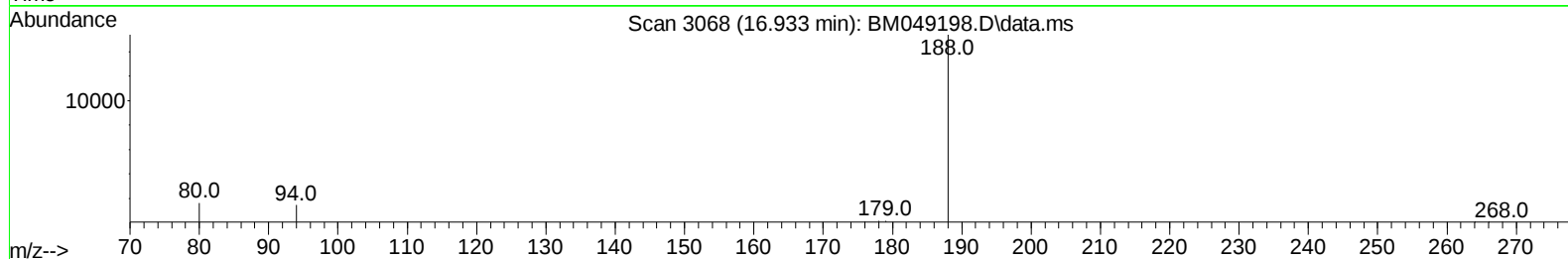
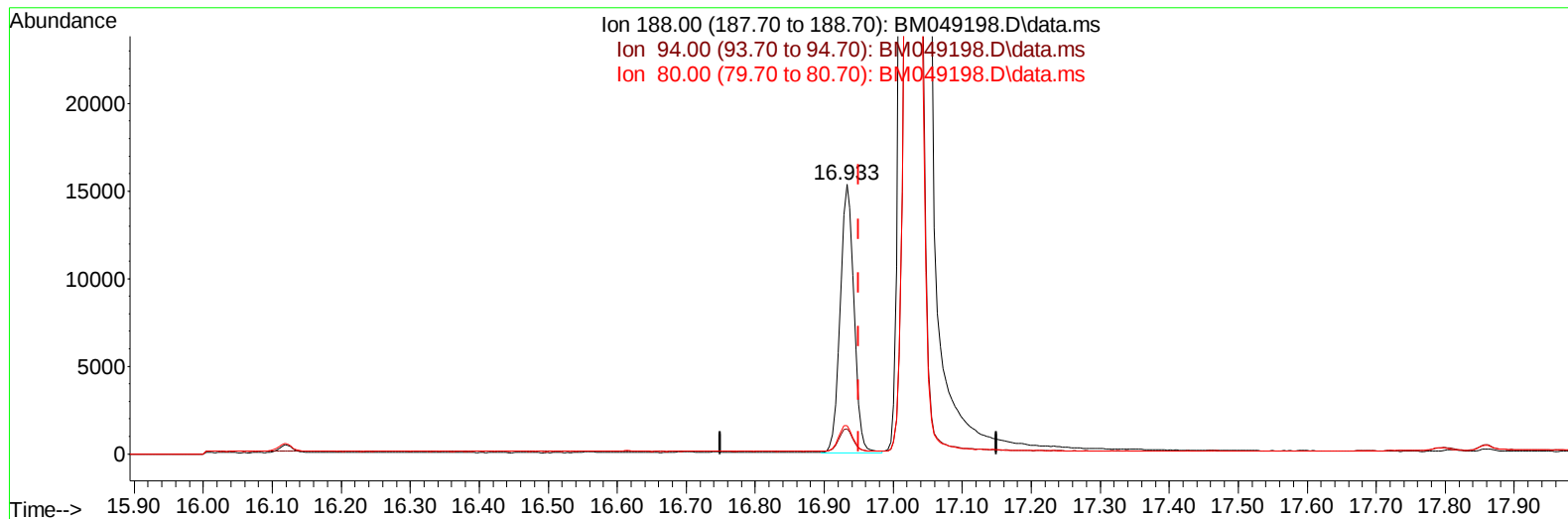
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(13) Phenanthrene-d10 (I)

16.933min (-0.017) 0.40 ng/ul m

response 21307

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	9.80	9.40
80.00	10.70	10.53
0.00	0.00	0.00

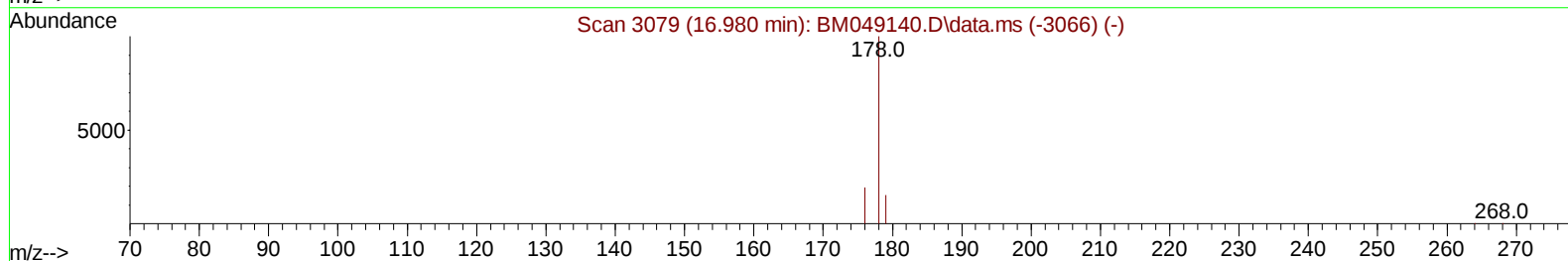
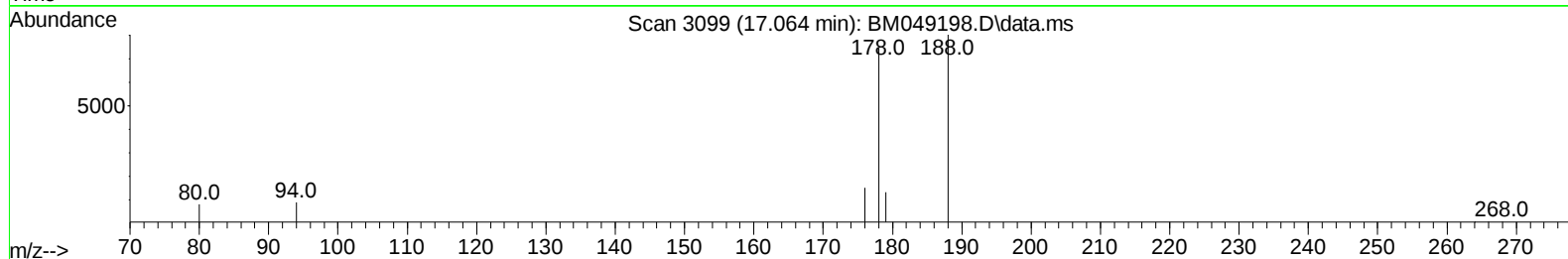
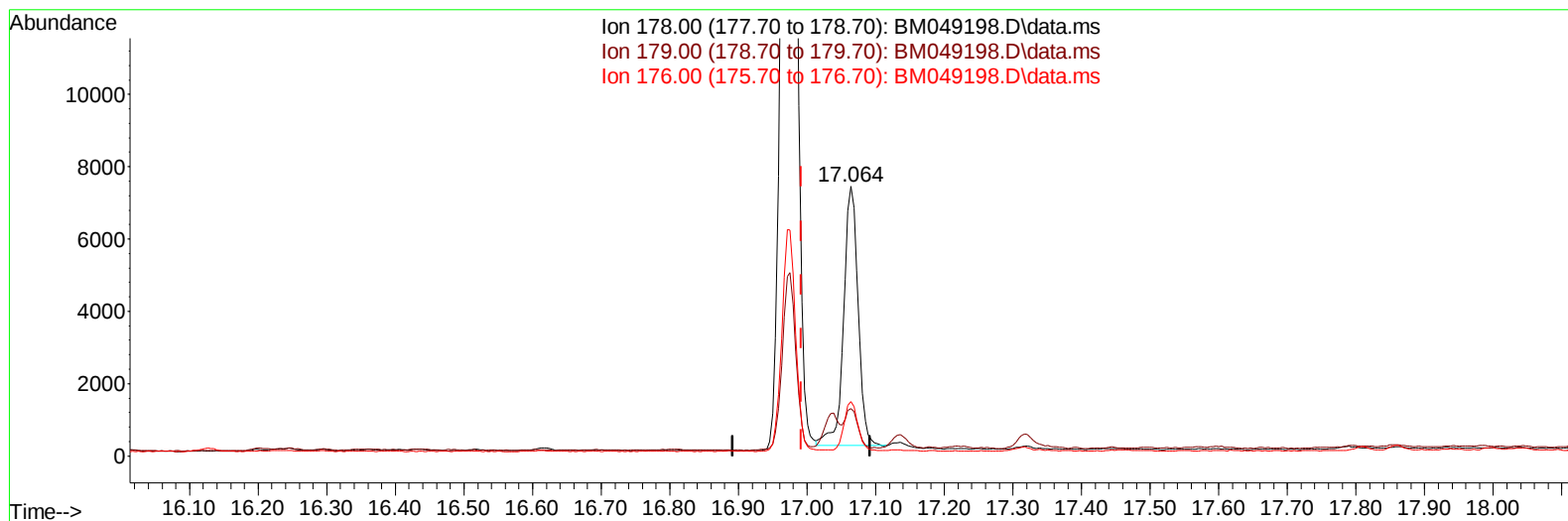
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(15) Phenanthrene

17.064min (+ 0.072) 0.19 ng/u1

response 10464

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.20	17.67
176.00	20.20	20.17
0.00	0.00	0.00

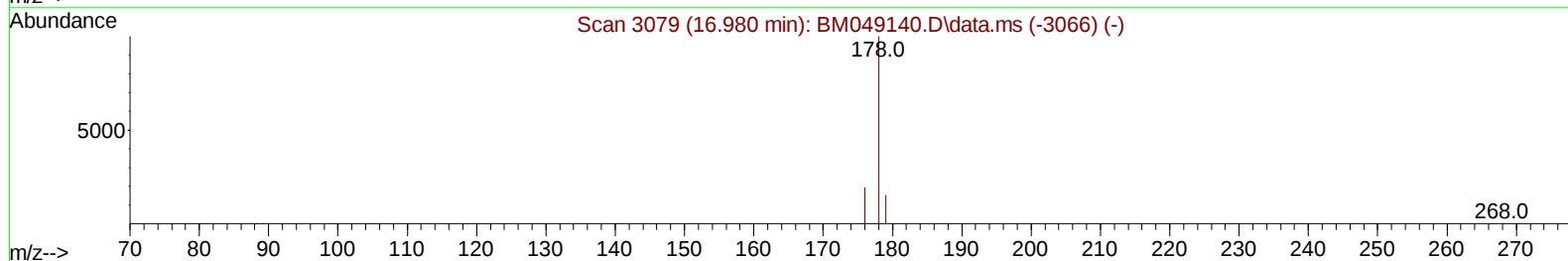
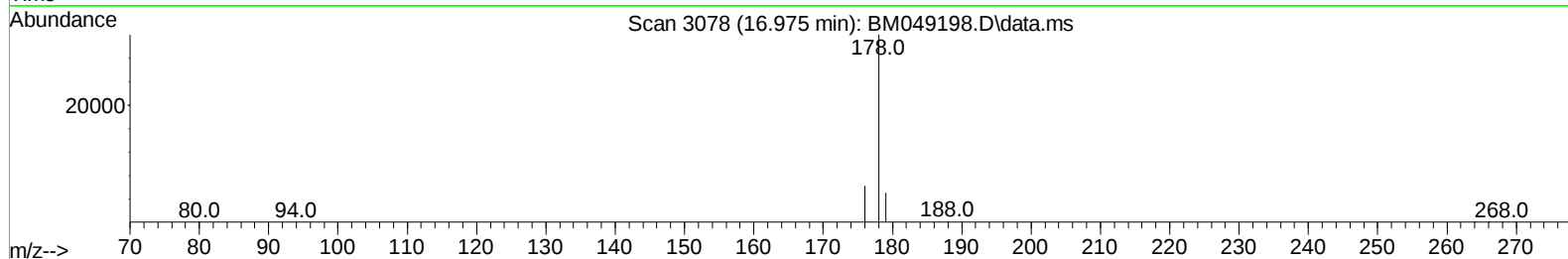
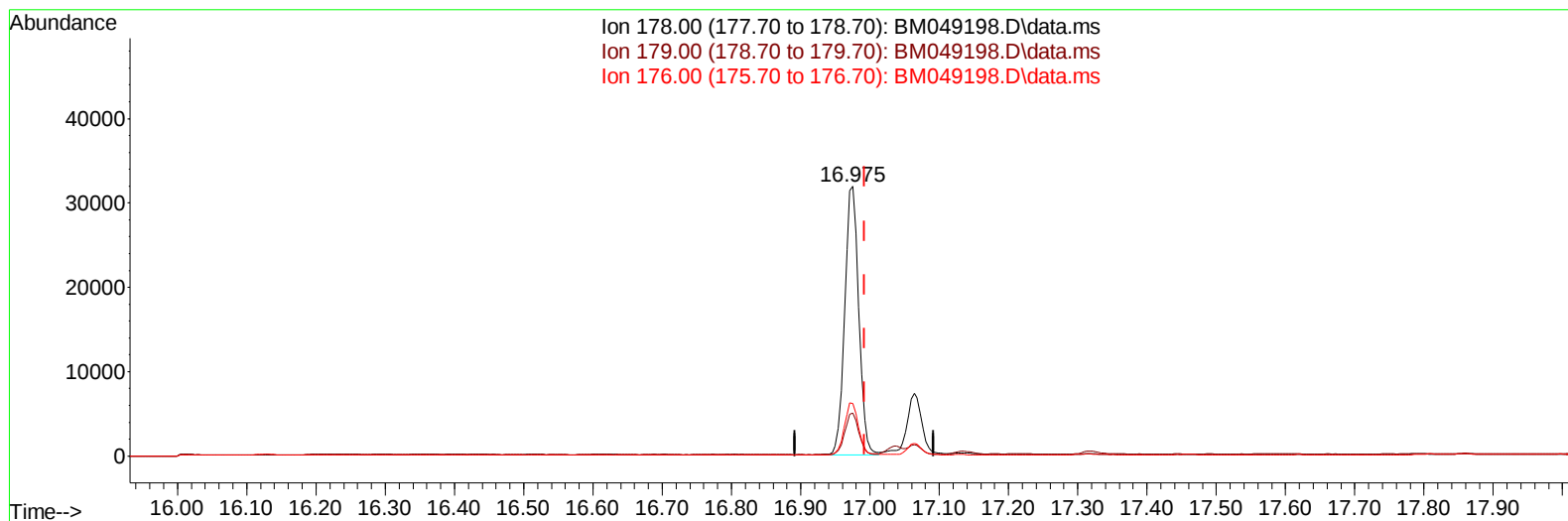
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(15) Phenanthrene

16.975min (-0.017) 0.80 ng/ul m

response 44353

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.20	15.89
176.00	20.20	19.55
0.00	0.00	0.00

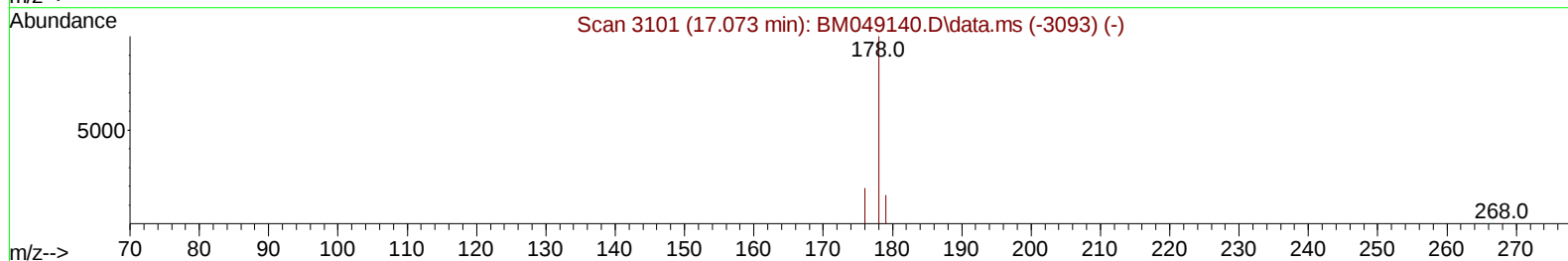
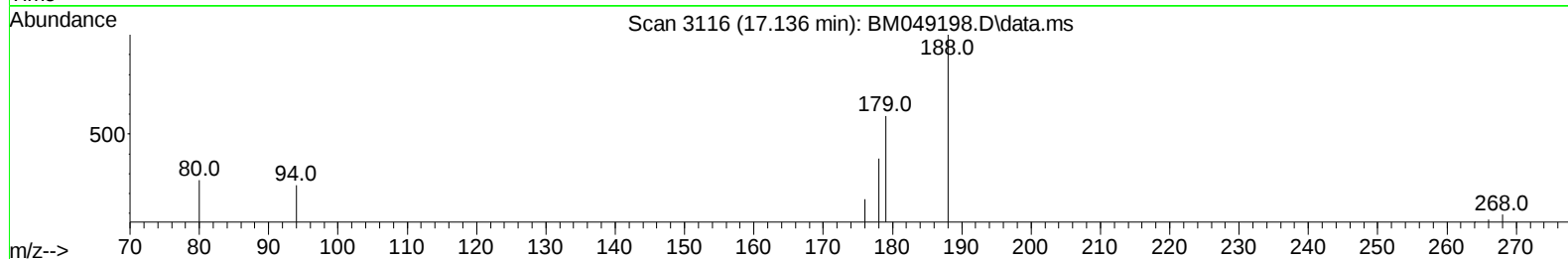
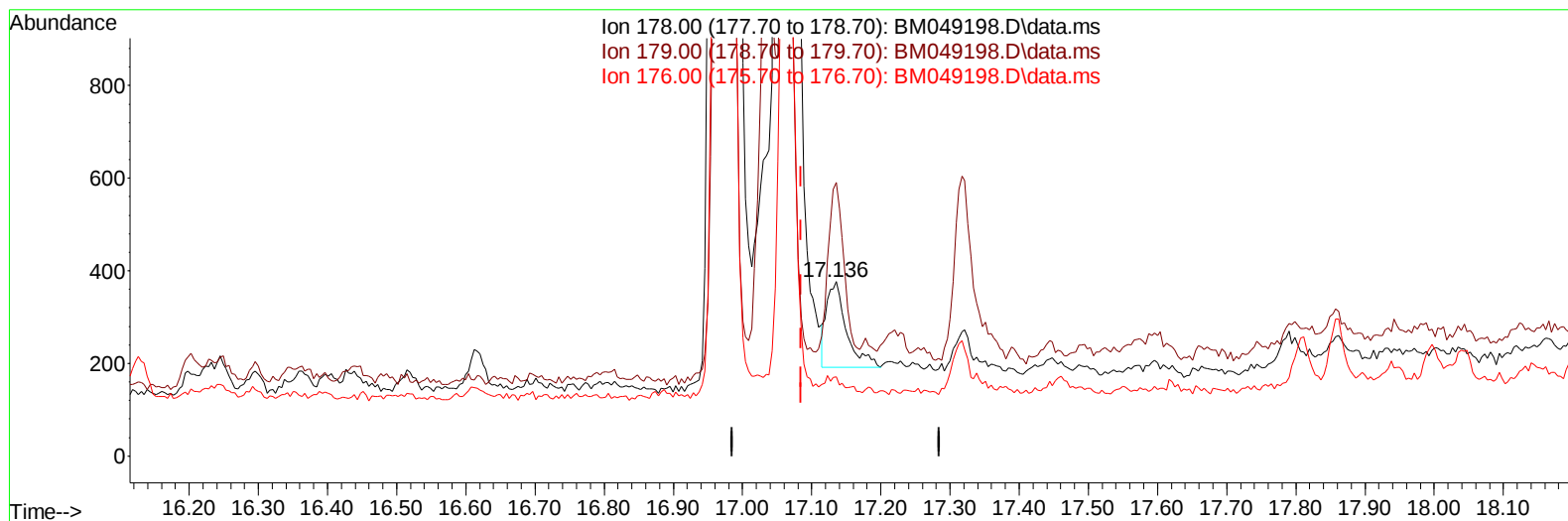
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(16) Anthracene

17.136min (+ 0.051) 0.01 ng/u1

response 366

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.10	156.76#
176.00	19.10	45.36#
0.00	0.00	0.00

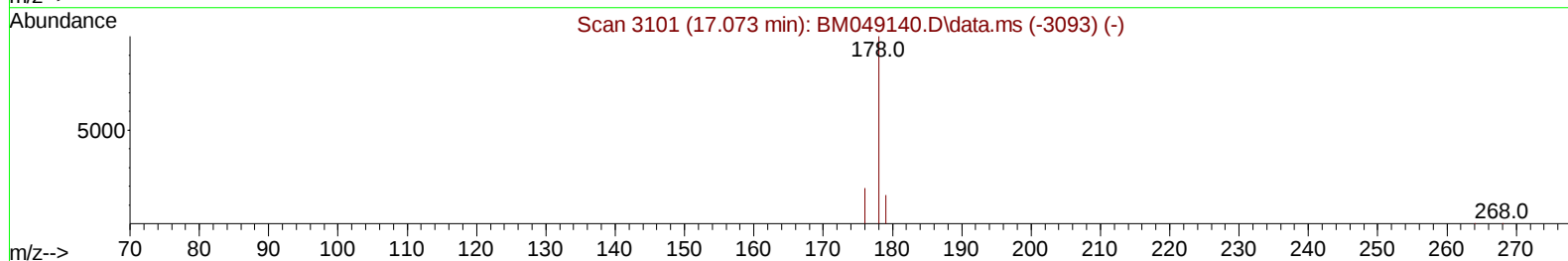
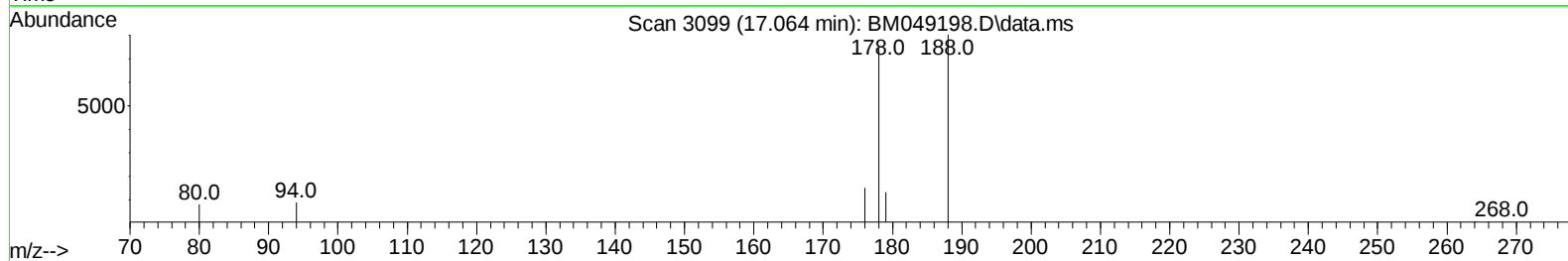
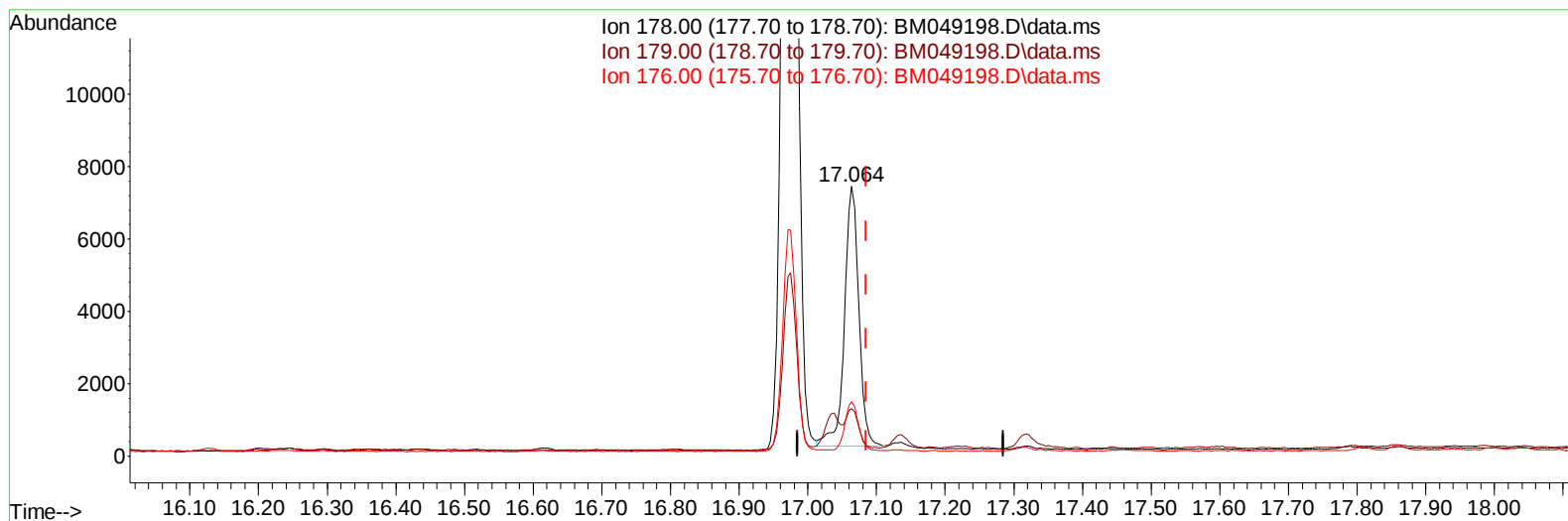
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(16) Anthracene

17.064min (-0.021) 0.21 ng/ul m

response 10561

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	16.10	17.67
176.00	19.10	20.17
0.00	0.00	0.00

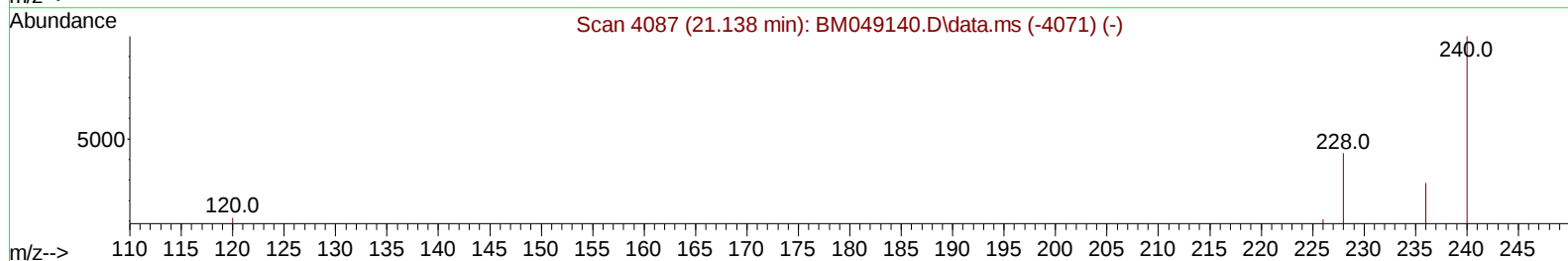
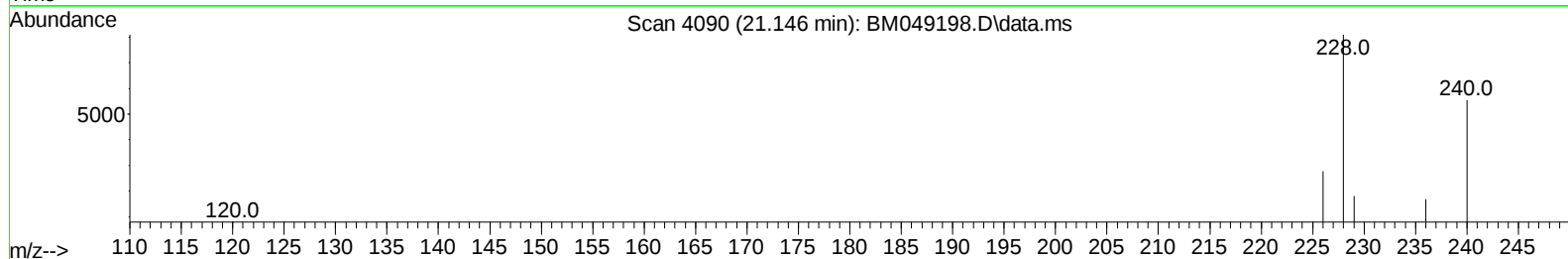
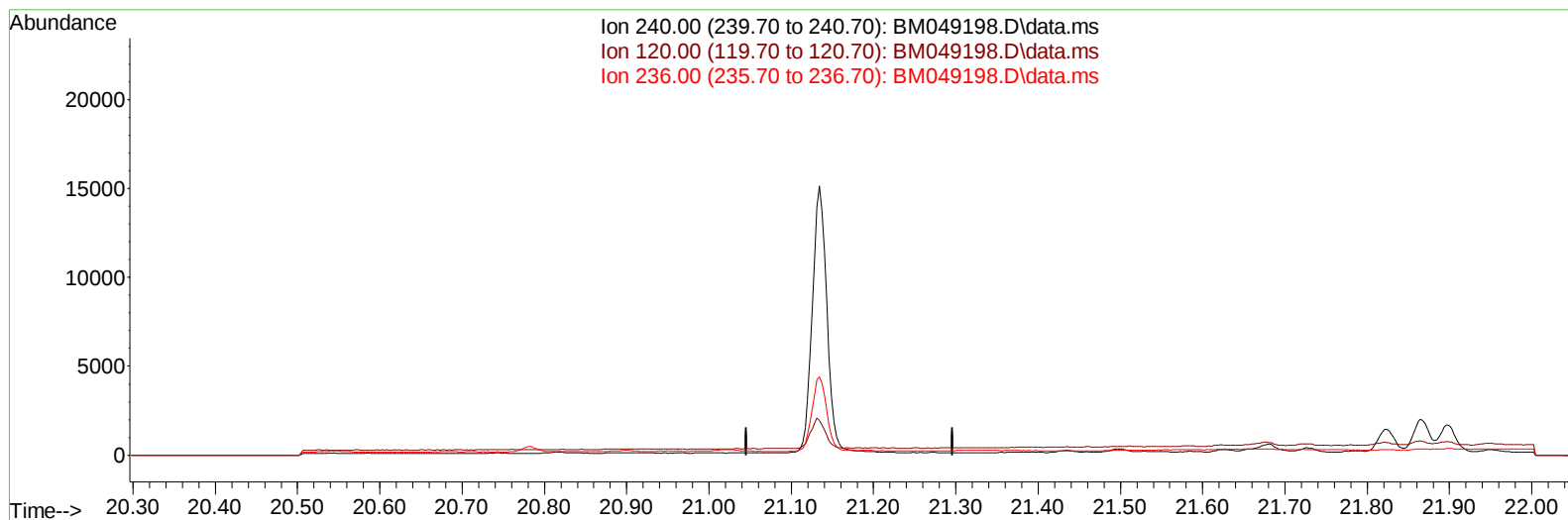
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 00:09:27 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: BM049198.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

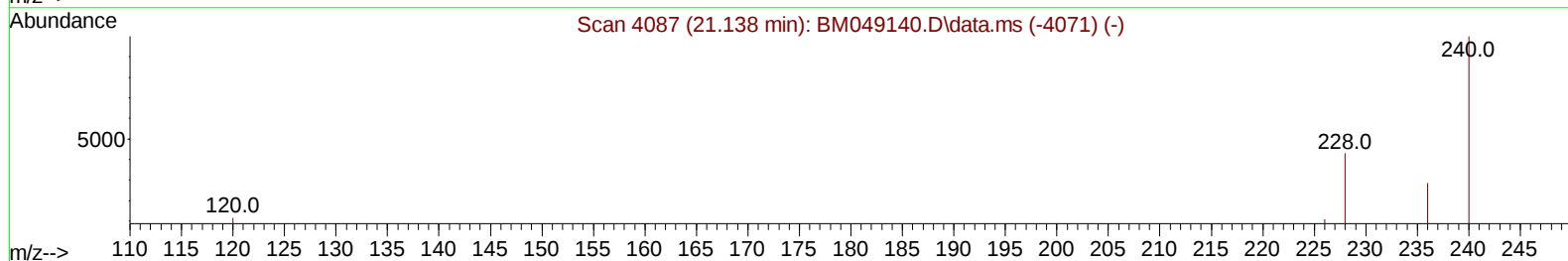
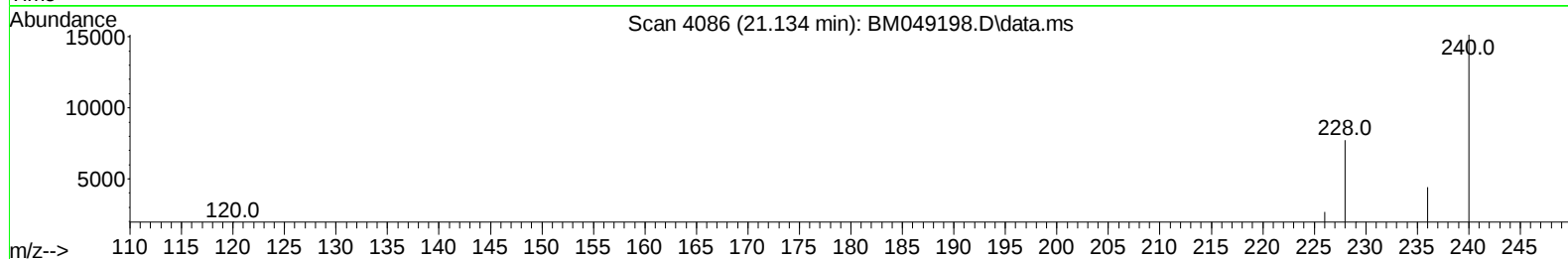
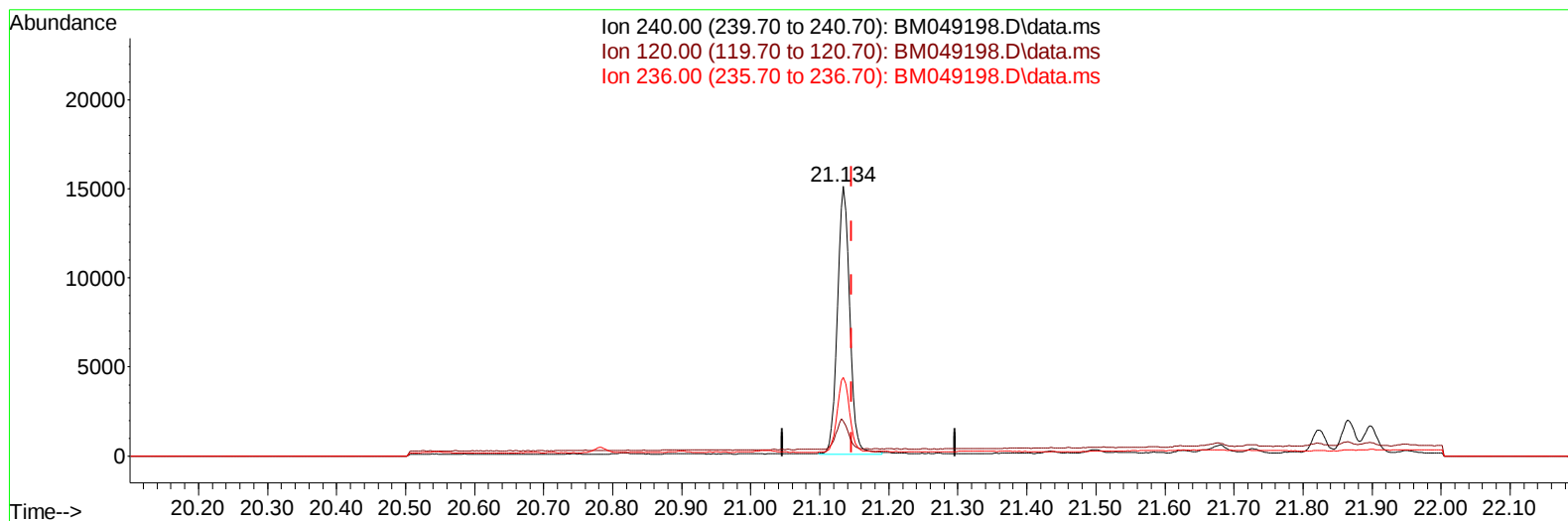
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(17) Chrysene-d12

21.134min (-0.012) 0.40 ng/ul m

response 18723

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	14.50	12.99
236.00	29.80	29.17
0.00	0.00	0.00

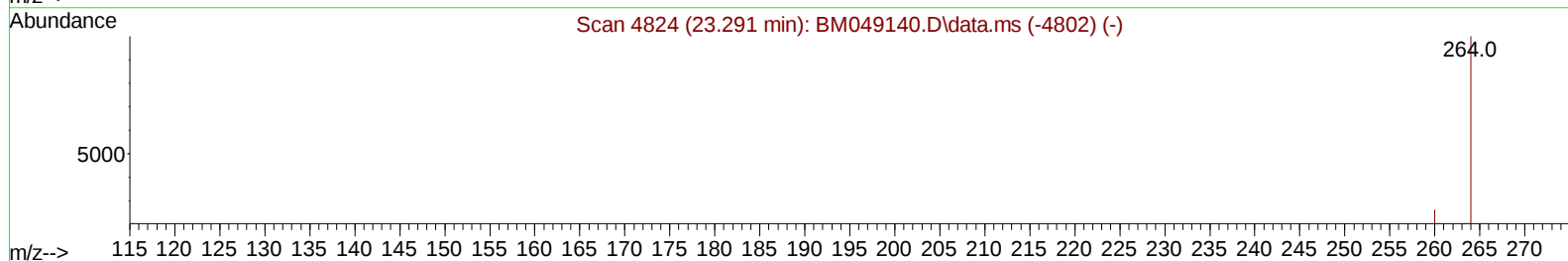
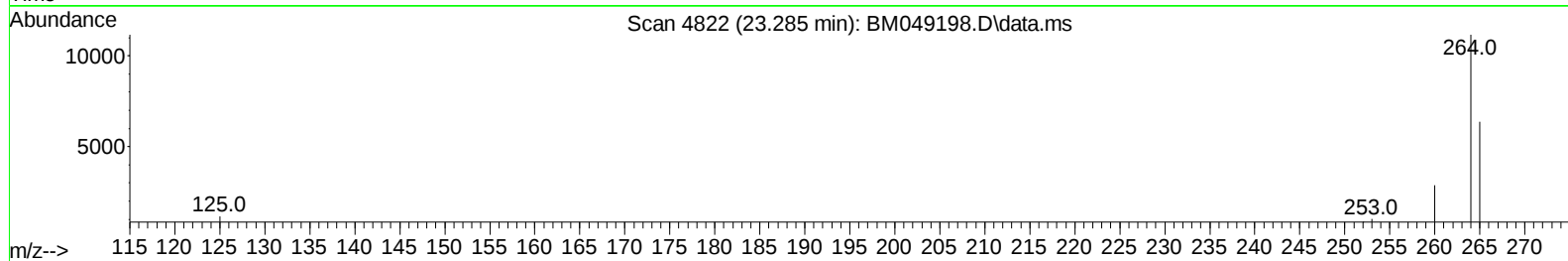
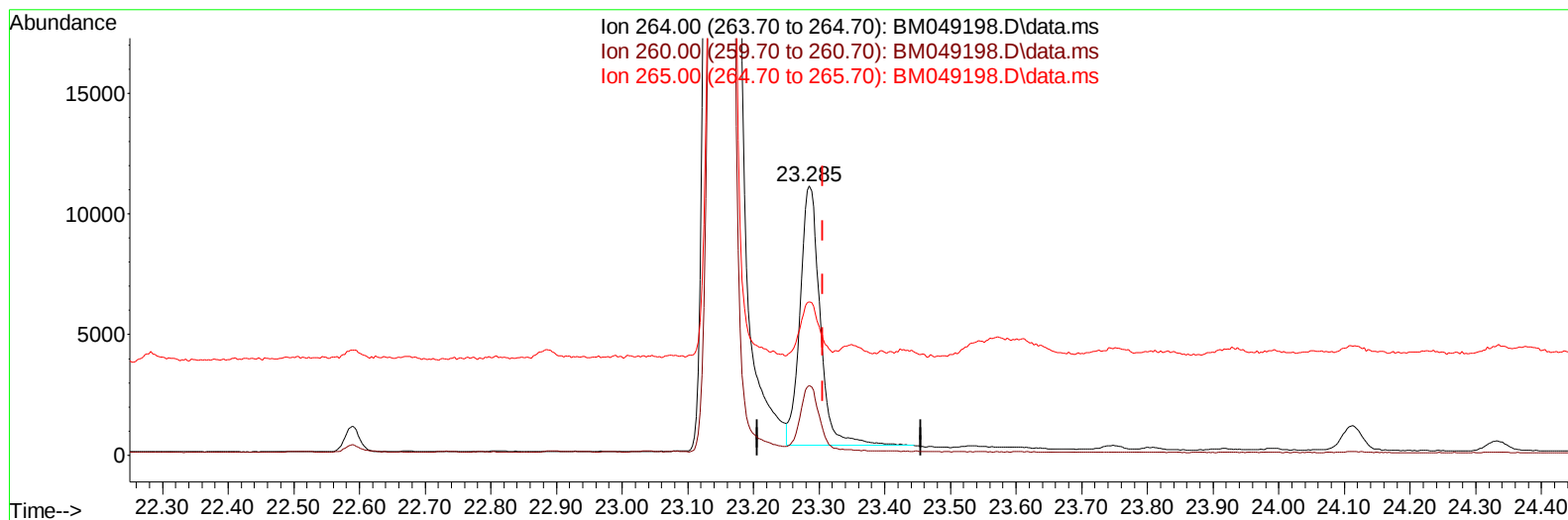
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(23) Perylene-d12 (I)

23.285min (-0.021) 0.40 ng/u1

response 22597

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	25.80	25.77
265.00	78.30	56.98#
0.00	0.00	0.00

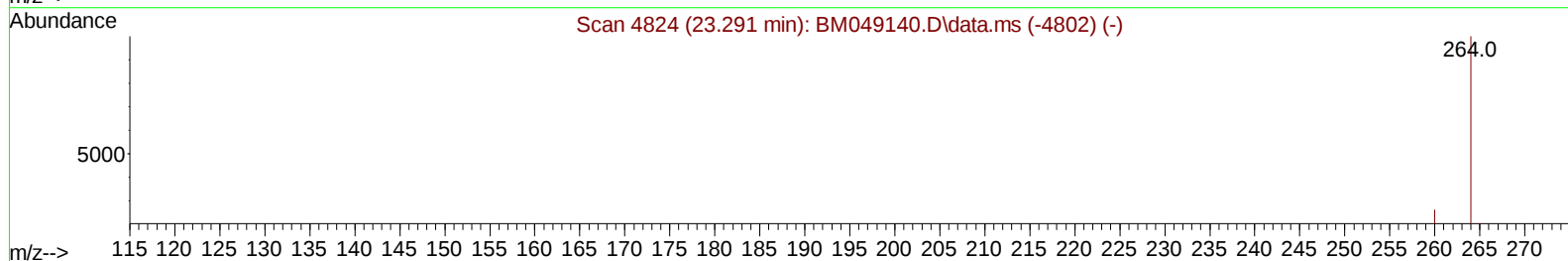
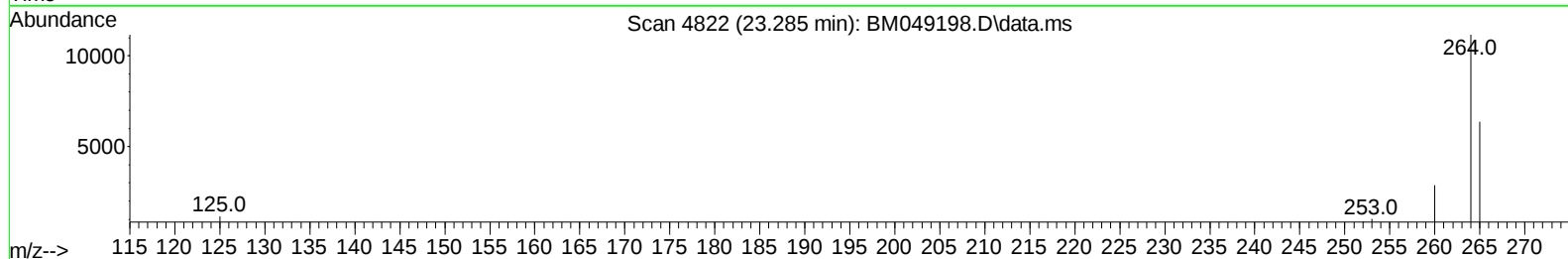
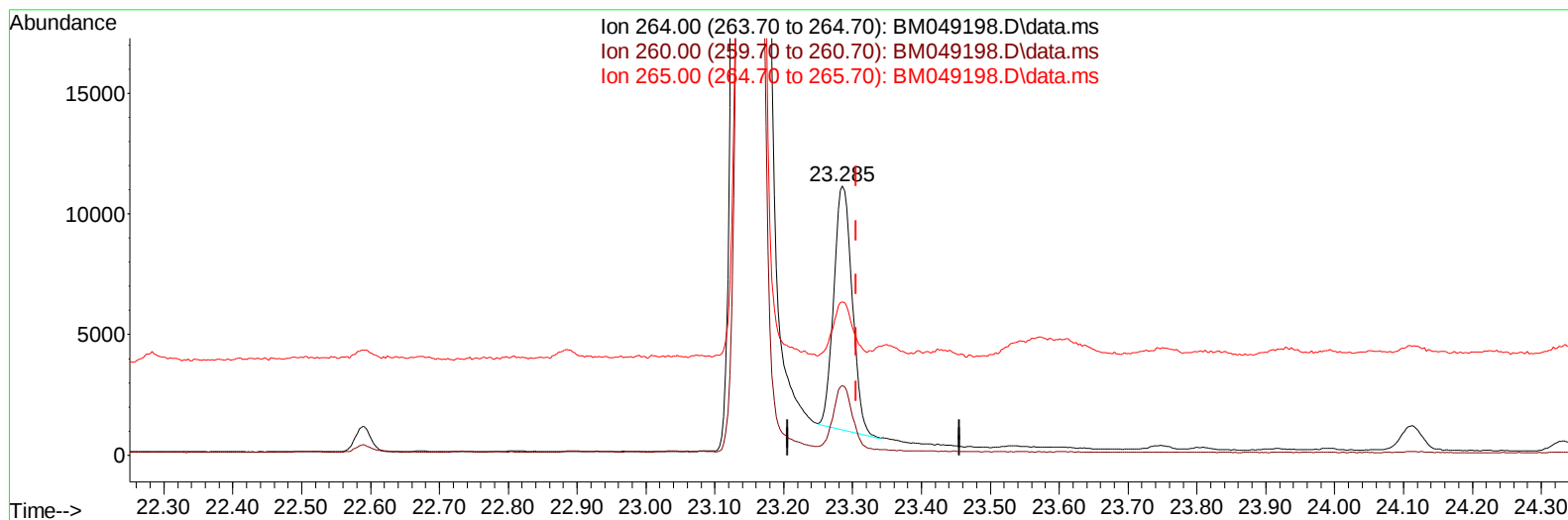
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(23) Perylene-d12 (I)

23.285min (-0.021) 0.40 ng/ul m

response 18801

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	25.80	25.77
265.00	78.30	56.98#
0.00	0.00	0.00

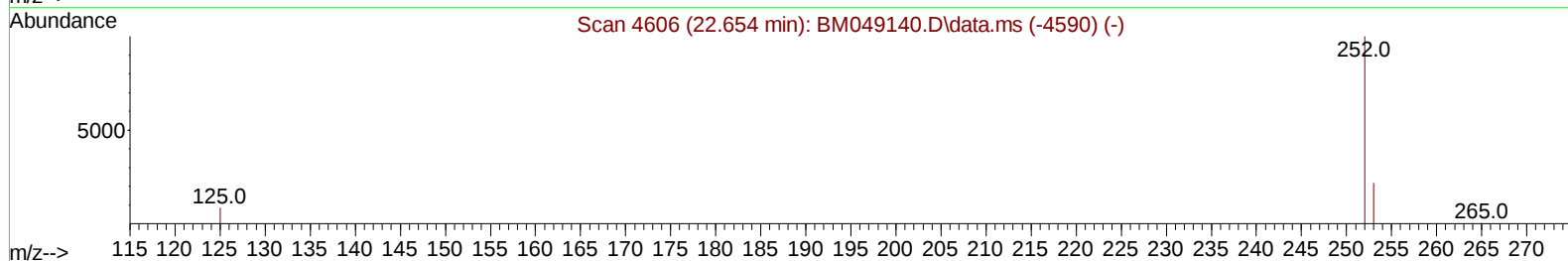
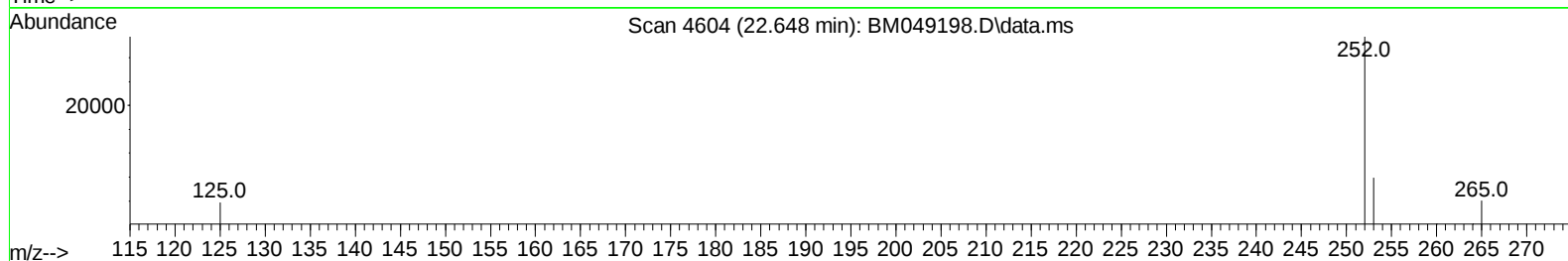
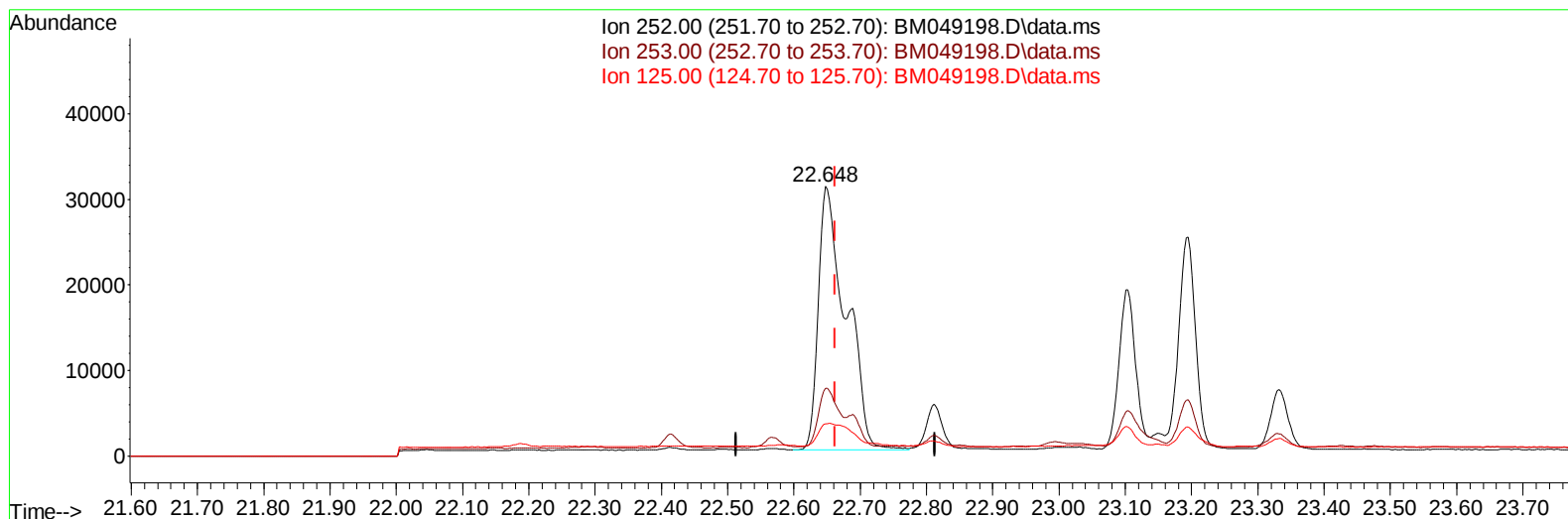
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(24) Benzo(b)fluoranthene

22.648min (-0.015) 1.48 ng/u1

response 88861

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.30	25.23
125.00	15.40	11.97
0.00	0.00	0.00

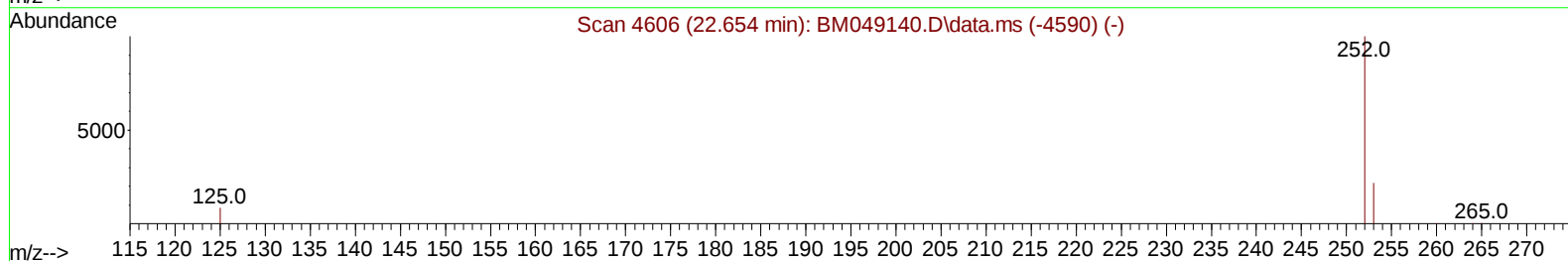
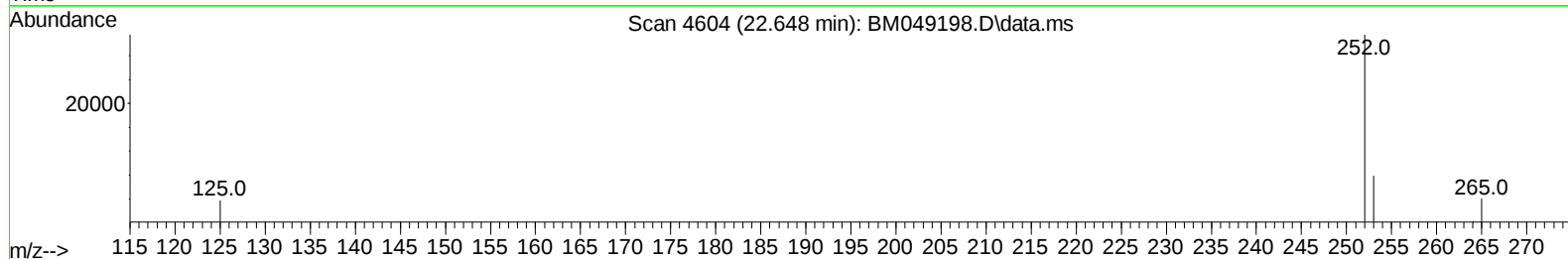
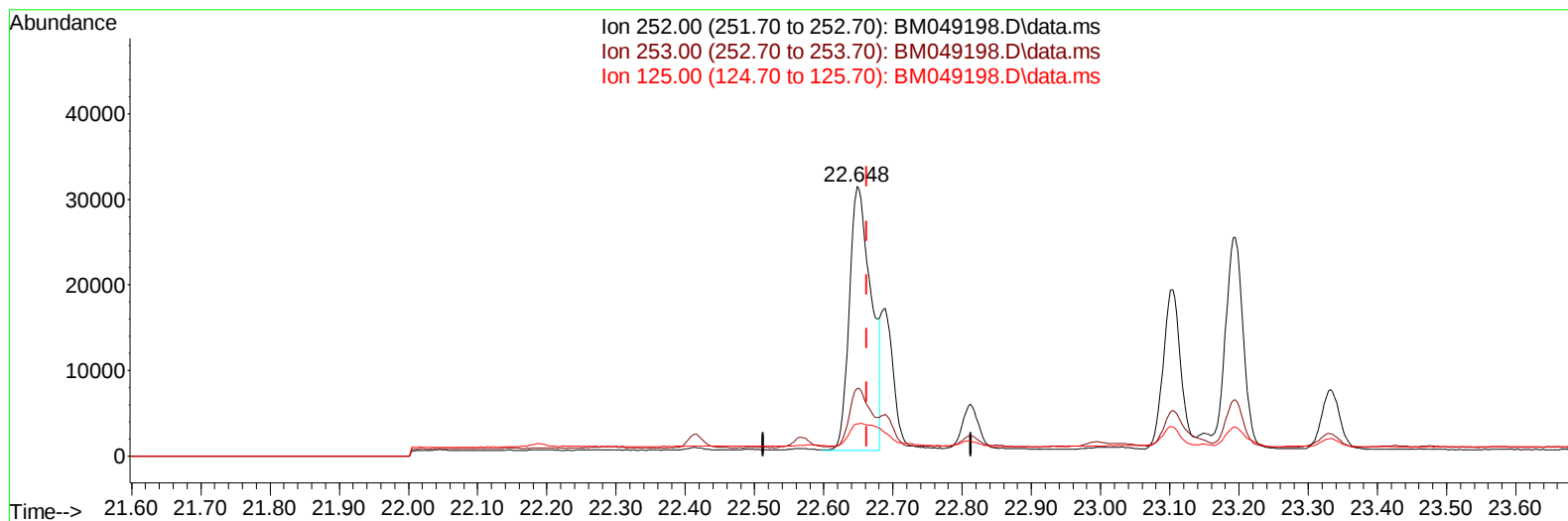
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 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 :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(24) Benzo(b)fluoranthene

22.648min (-0.015) 1.13 ng/u1 m

response 67583

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.30	25.23
125.00	15.40	11.97
0.00	0.00	0.00

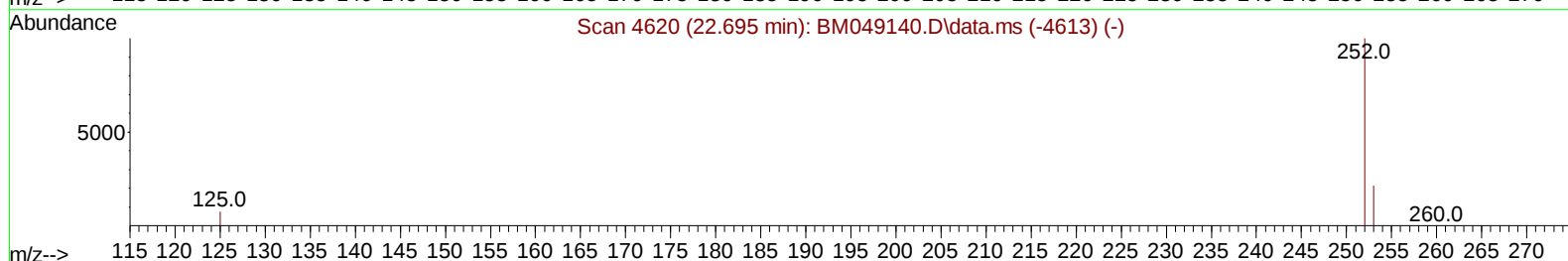
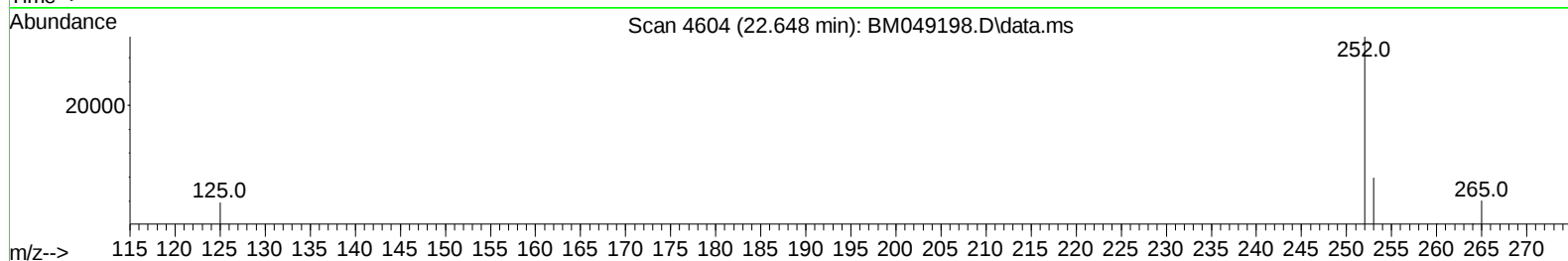
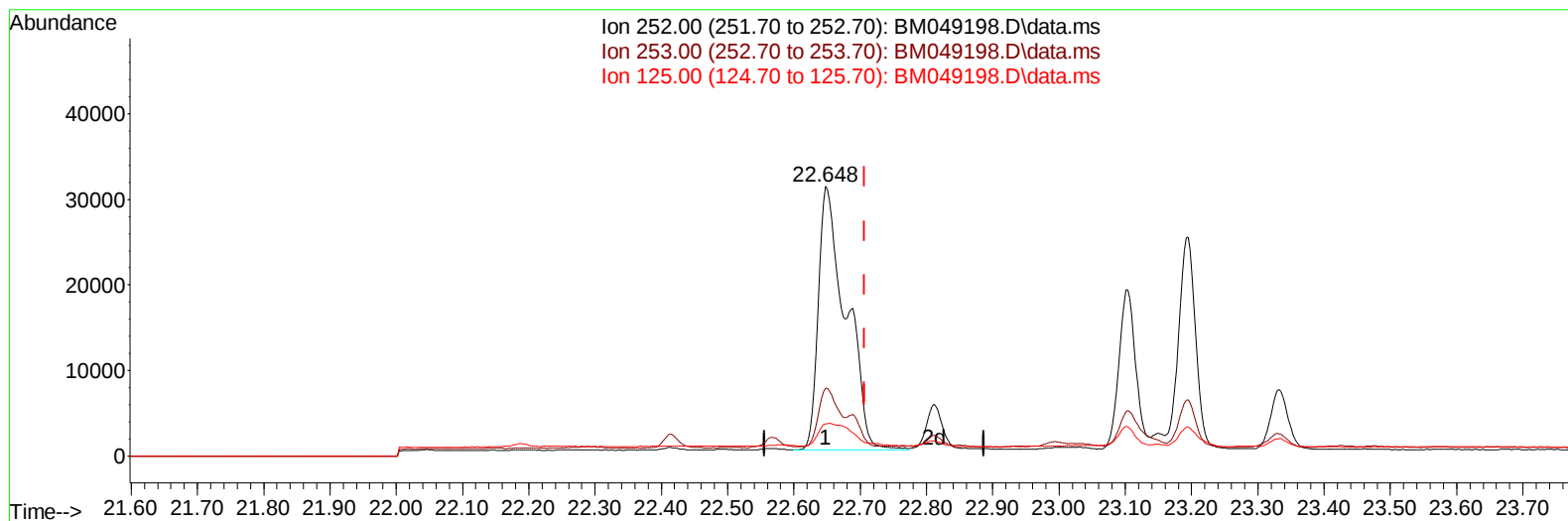
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 00:09:27 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: BM049198.D\data.ms

(25) Benzo(k)fluoranthene

22.648min (-0.059) 1.35 ng/u1

response 88861

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.60	25.23
125.00	15.70	11.97#
0.00	0.00	0.00

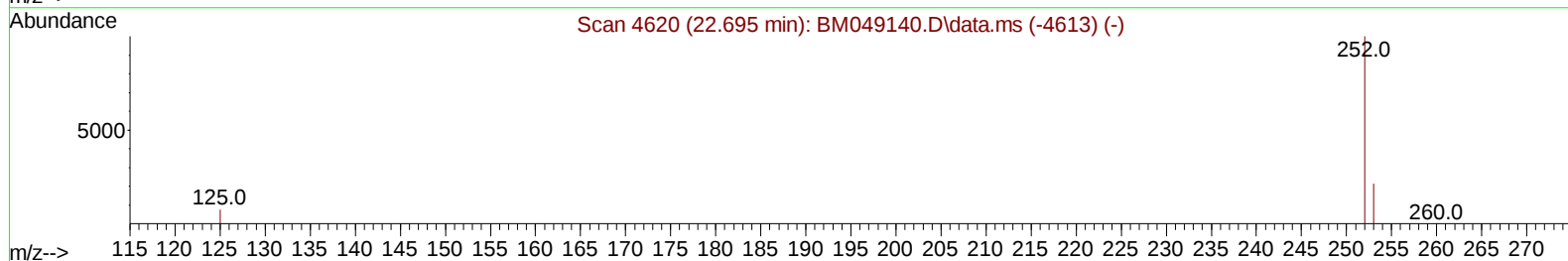
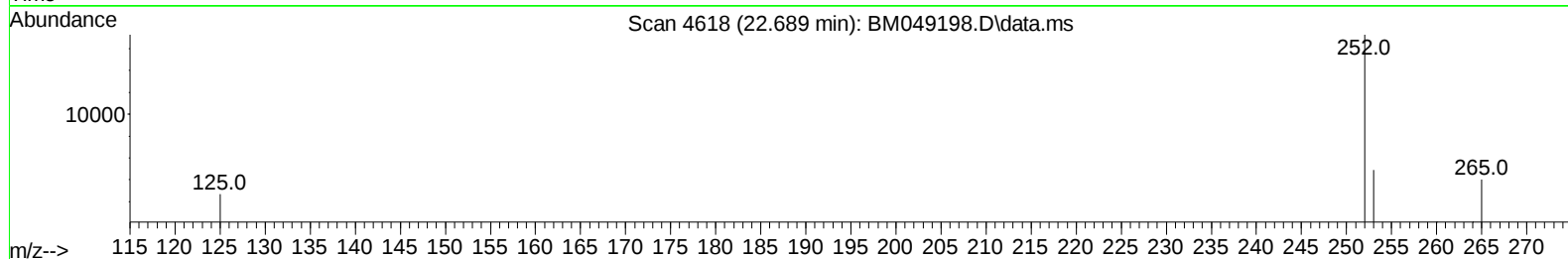
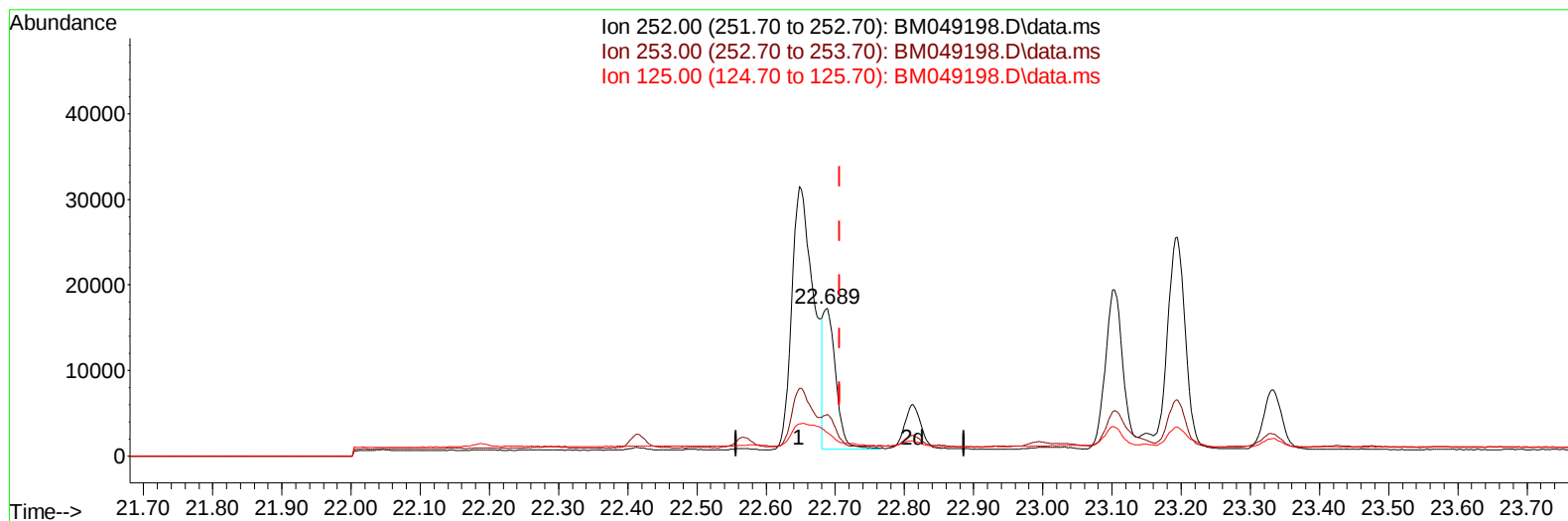
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 00:09:27 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: BM049198.D\data.ms

(25) Benzo(k)fluoranthene

22.689min (-0.018) 0.32 ng/u1 m

response 21057

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	26.60	28.19
125.00	15.70	15.71
0.00	0.00	0.00

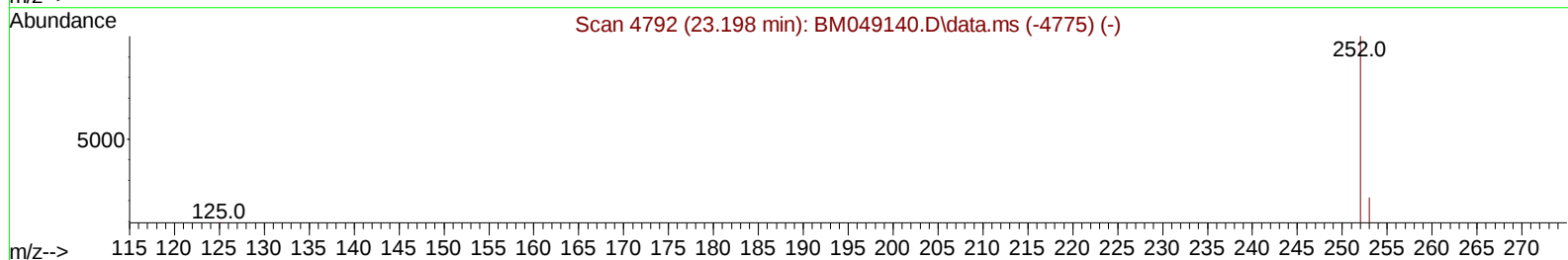
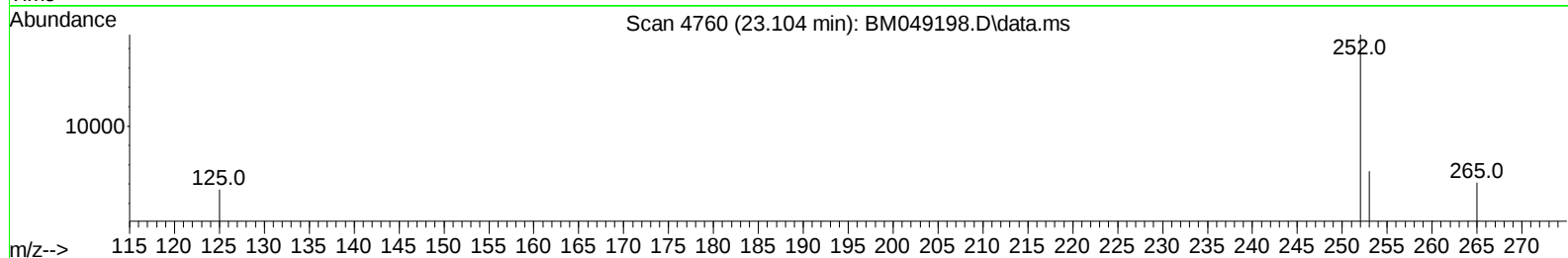
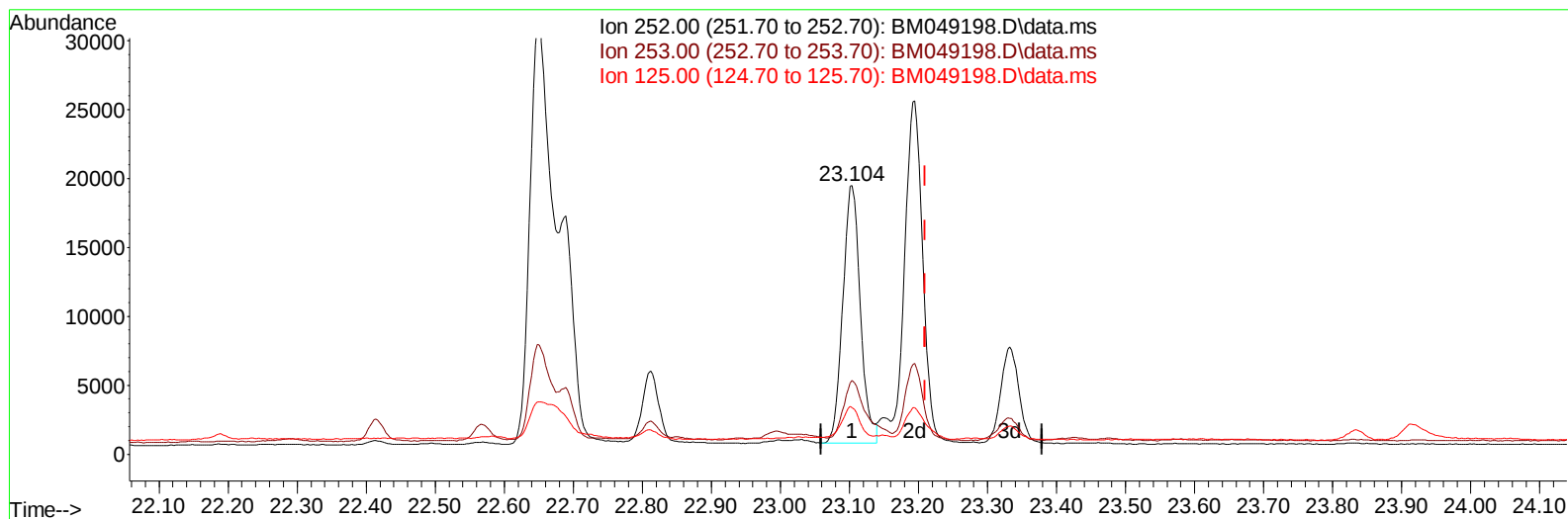
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
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Sample : P5333-19
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ALS Vial : 63 Sample Multiplier: 1

Instrument :
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TIC: BM049198.D\data.ms

(26) Benzo(a)pyrene (C)

23.104min (-0.105) 0.57 ng/u1

response 33113

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.00	27.43
125.00	18.50	17.46
0.00	0.00	0.00

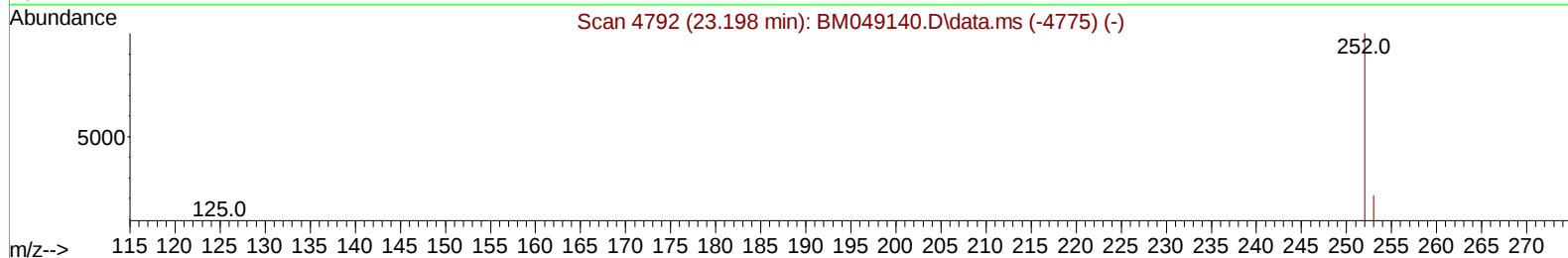
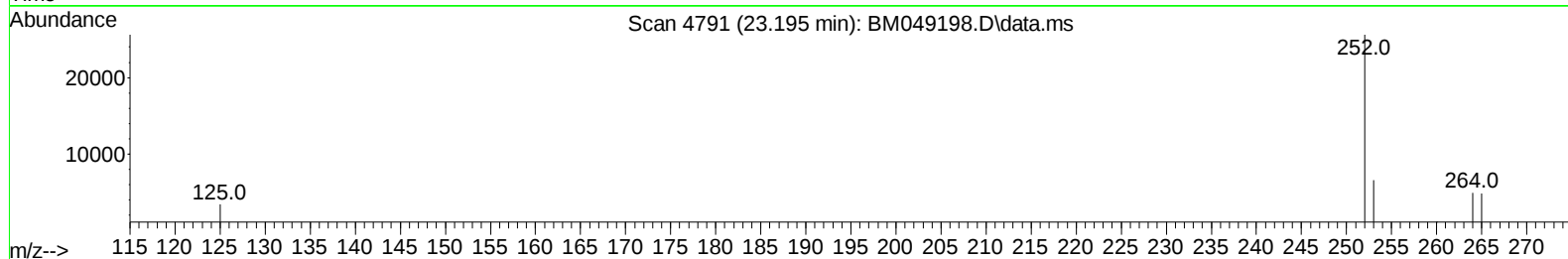
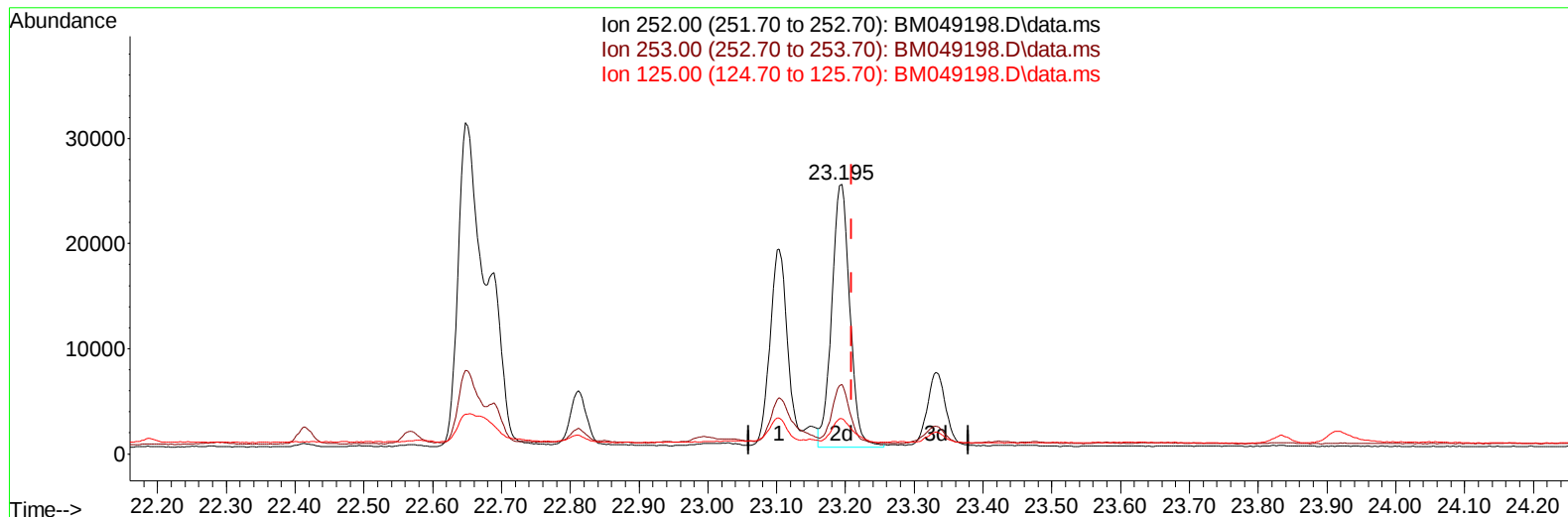
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
Data File : BM049198.D
Acq On : 24 Dec 2024 23:39
Operator : RC/JU
Sample : P5333-19
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E2921

Manual IntegrationsAPPROVED

Quant Time: Dec 25 00:09:27 2024
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Supervised By :mohammad ahmed 12/26/2024



TIC: BM049198.D\data.ms

(26) Benzo(a)pyrene (C)

23.195min (-0.015) 0.79 ng/u1 m

response 45445

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.00	25.73
125.00	18.50	13.21#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM122324\
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 Operator : RC/JU
 Sample : P5333-19
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E2921

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/26/2024
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.548	152	5572	0.400	ng/ul	-0.02
4) Naphthalene-d8	10.308	136	17088	0.400	ng/ul	-0.02
9) Acenaphthene-d10	14.186	164	9414	0.400	ng/ul	-0.01
13) Phenanthrene-d10	16.933	188	21307m	0.400	ng/ul	-0.02
17) Chrysene-d12	21.134	240	18723m	0.400	ng/ul	-0.01
23) Perylene-d12	23.285	264	18801m	0.400	ng/ul	-0.02
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.143	96	24878	3.871	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.908	152	5556	0.242	ng/ul	-0.02
18) Fluoranthene-d10	18.968	212	11128	0.209	ng/ul	-0.01
Target Compounds						
					Qvalue	
5) Naphthalene	10.358	128	1271	0.030	ng/ul#	76
7) 2-Methylnaphthalene	11.985	142	765	0.028	ng/ul	97
8) 1-Methylnaphthalene	12.205	142	819	0.030	ng/ul	100
10) Acenaphthylene	13.899	152	1701	0.044	ng/ul#	80
11) Acenaphthene	14.246	153	1688	0.059	ng/ul	97
12) Fluorene	15.241	166	1657	0.052	ng/ul#	97
15) Phenanthrene	16.975	178	44353m	0.797	ng/ul	
16) Anthracene	17.064	178	10561m	0.207	ng/ul	
19) Fluoranthene	19.001	202	108802	1.607	ng/ul	98
20) Pyrene	19.363	202	92932	1.287	ng/ul	98
21) Benzo(a)anthracene	21.117	228	48185	0.740	ng/ul	99
22) Chrysene	21.169	228	47935	0.686	ng/ul	98
24) Benzo(b)fluoranthene	22.648	252	67583m	1.125	ng/ul	
25) Benzo(k)fluoranthene	22.689	252	21057m	0.319	ng/ul	
26) Benzo(a)pyrene	23.195	252	45445m	0.789	ng/ul	
27) Indeno(1,2,3-cd)pyrene	25.417	276	34406	0.422	ng/ul#	91
28) Dibenzo(a,h)anthracene	25.424	278	7509	0.119	ng/ul#	84
29) Benzo(g,h,i)perylene	26.067	276	34313	0.523	ng/ul	98

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

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