

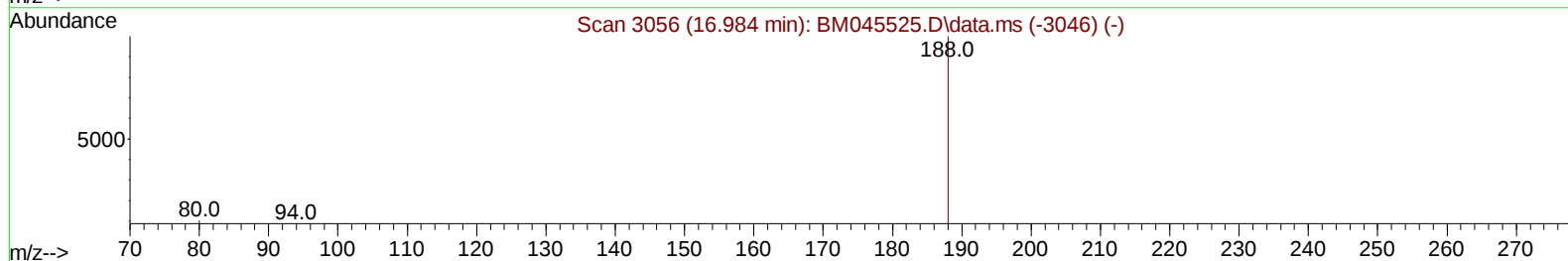
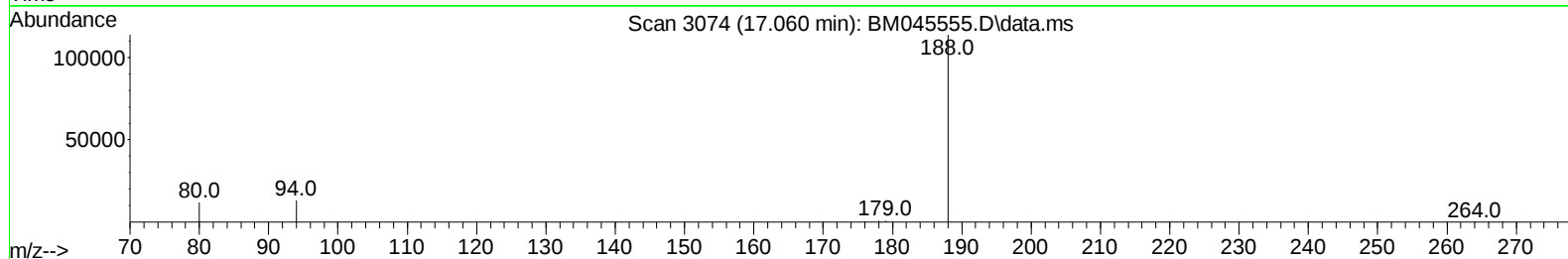
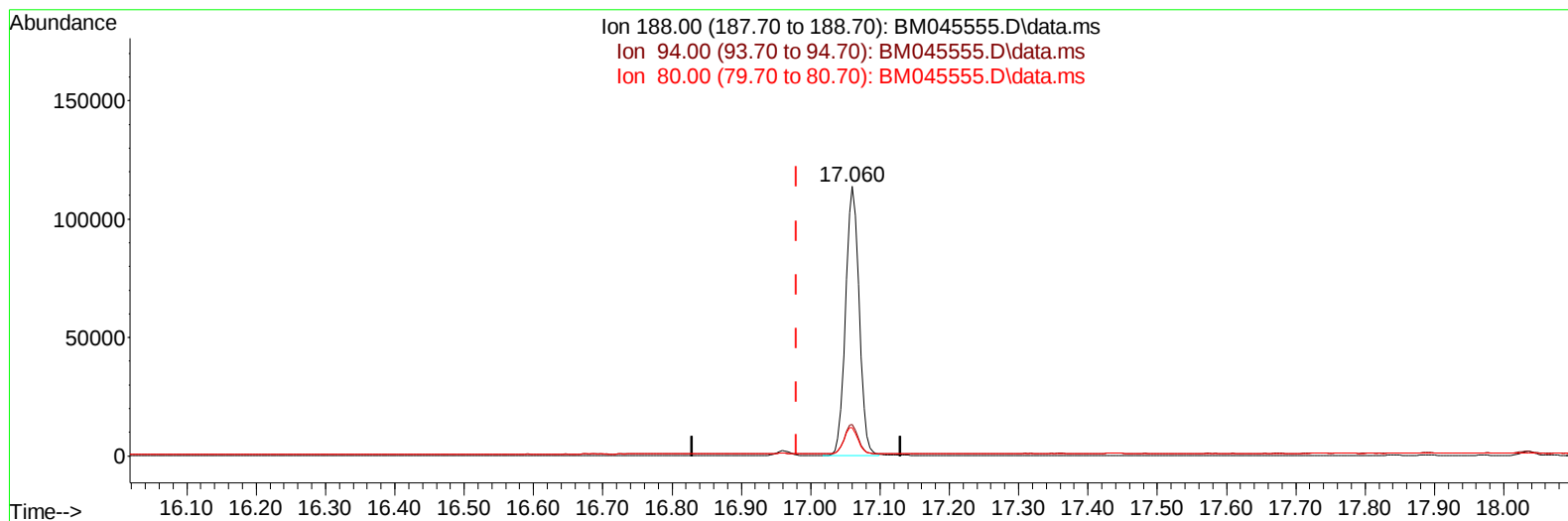
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 04/25/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045555.D\data.ms

(13) Phenanthrene-d10 (I)

17.060min (+ 0.080) 0.40 ng/u1

response 155006

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	14.80	11.73#
80.00	14.80	10.54#
0.00	0.00	0.00

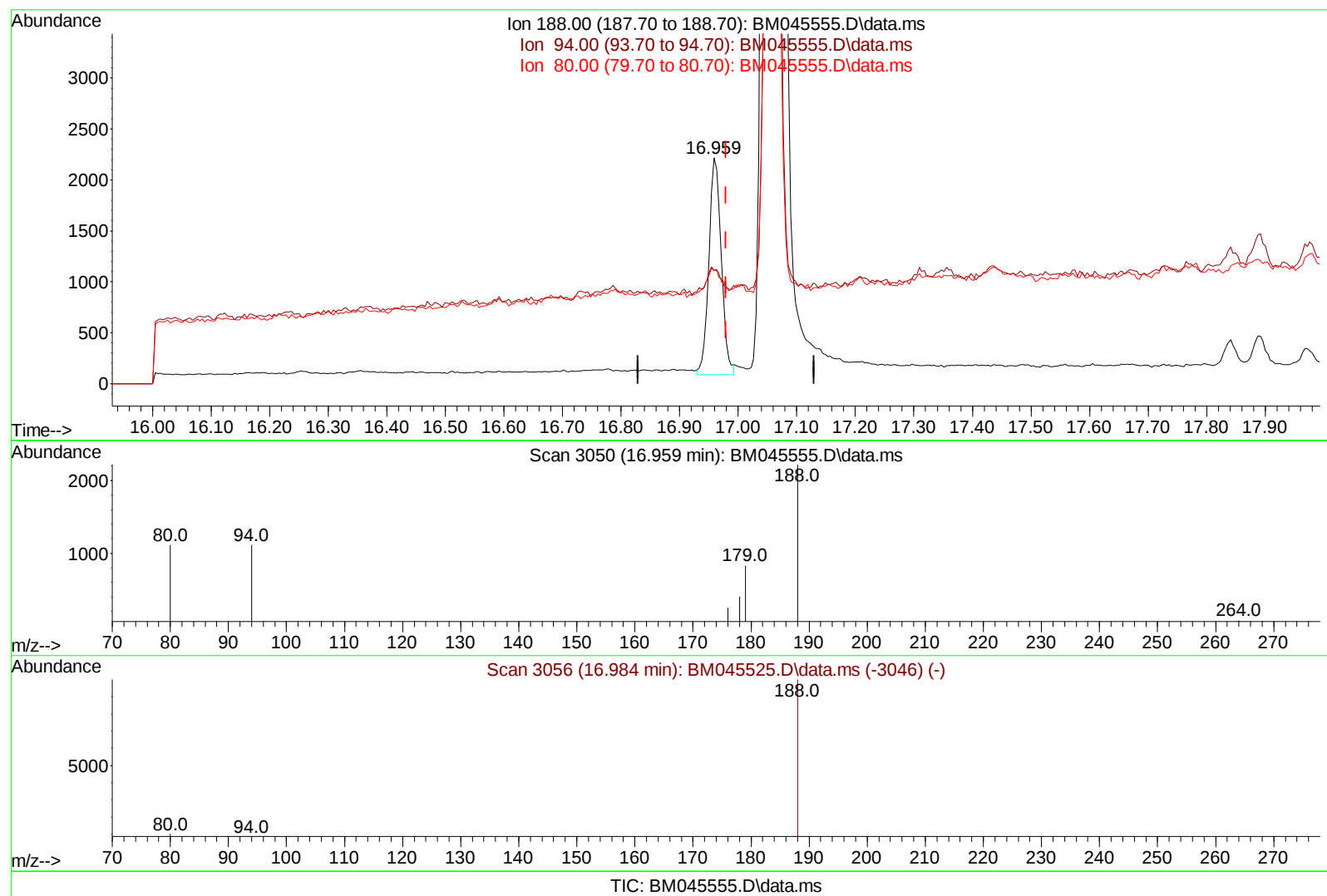
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
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(13) Phenanthrene-d10 (I)

16.959min (-0.021) 0.40 ng/ul m

response 3135

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	14.80	50.16#
80.00	14.80	50.20#
0.00	0.00	0.00

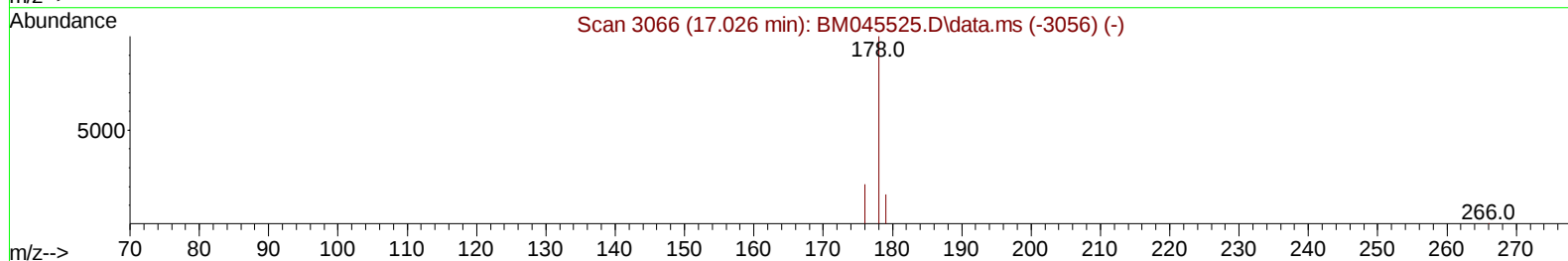
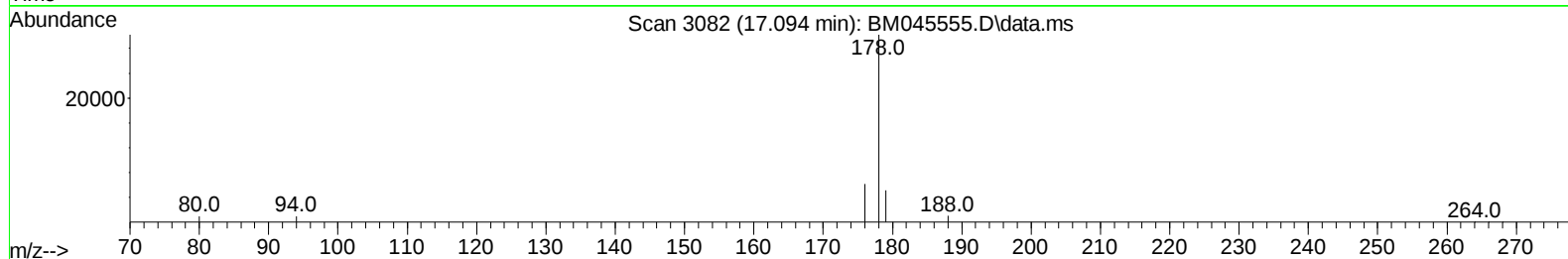
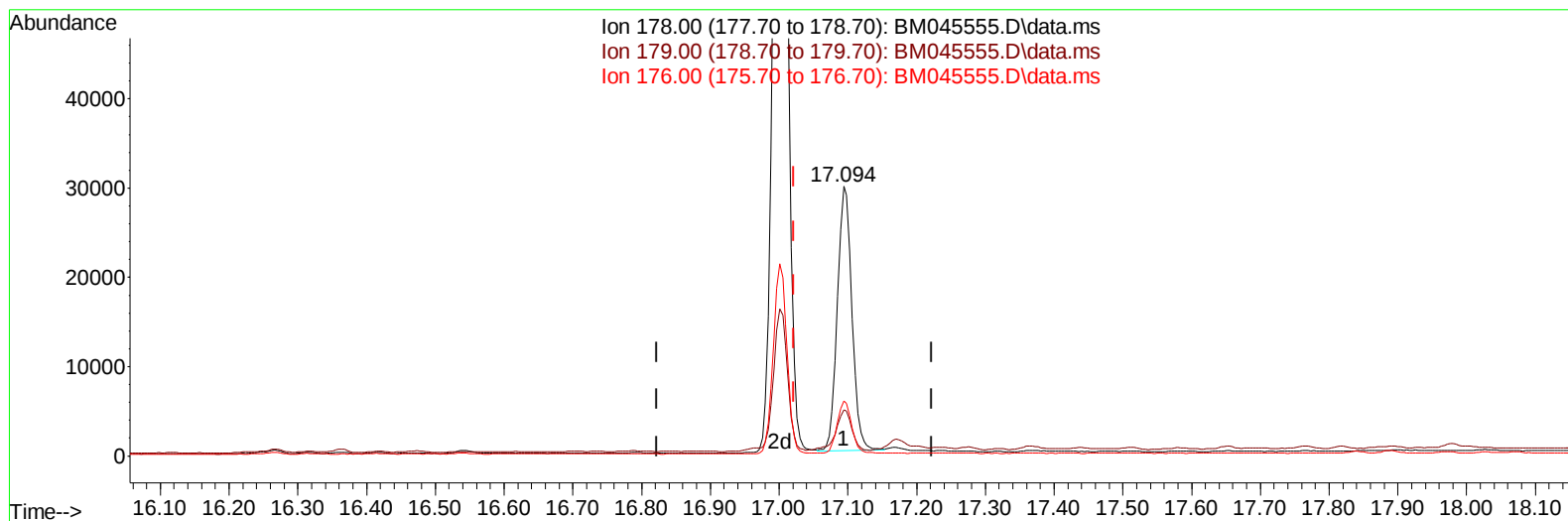
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
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TIC: BM045555.D\data.ms

(15) Phenanthrene

17.094min (+ 0.072) 4.75 ng/u1

response 43342

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	19.30	17.21
176.00	23.70	20.46
0.00	0.00	0.00

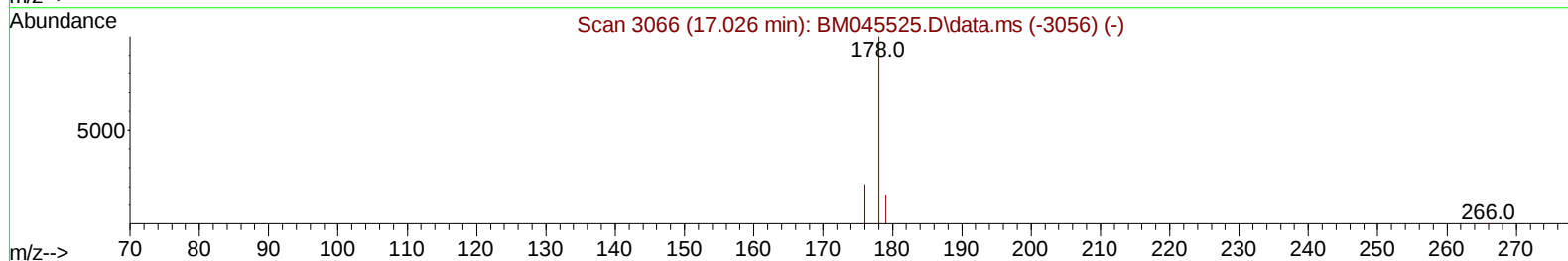
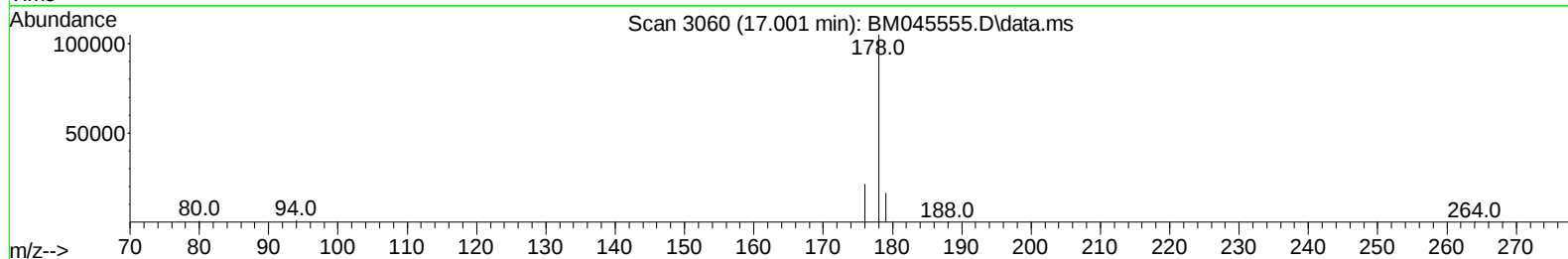
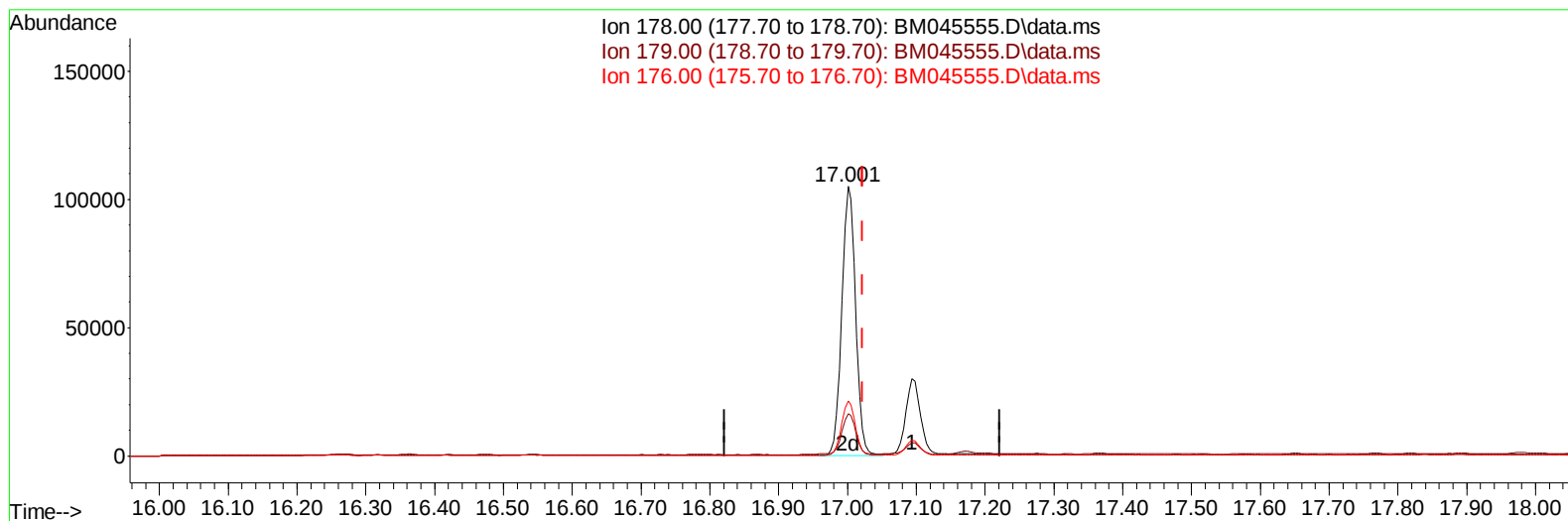
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
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Supervised By :mohammad ahmed 04/27/2024



TIC: BM045555.D\data.ms

(15) Phenanthrene

17.001min (-0.021) 15.92 ng/ul m

response 145387

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	19.30	15.71
176.00	23.70	20.46
0.00	0.00	0.00

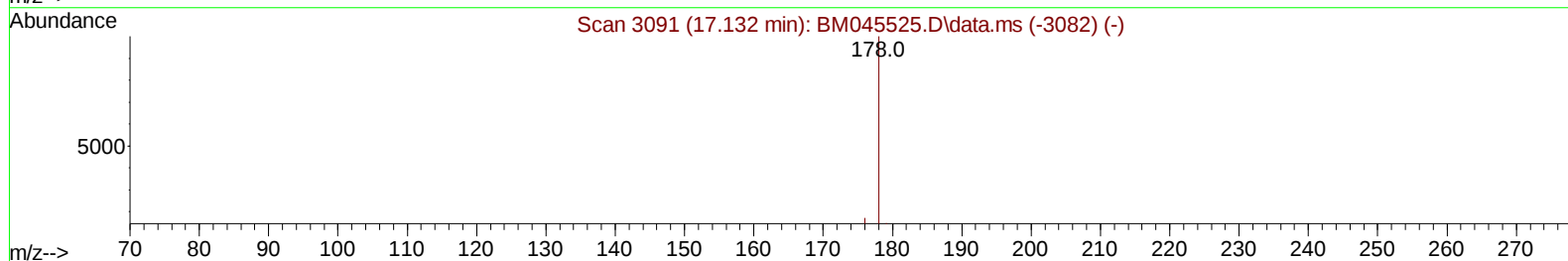
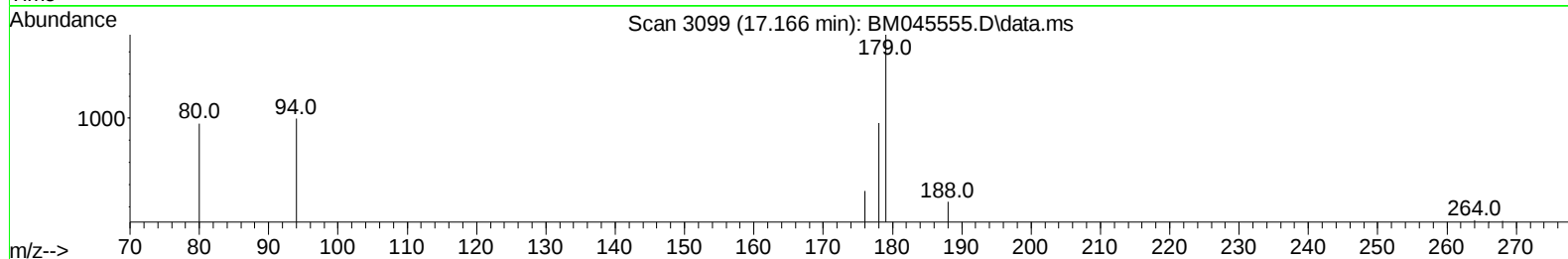
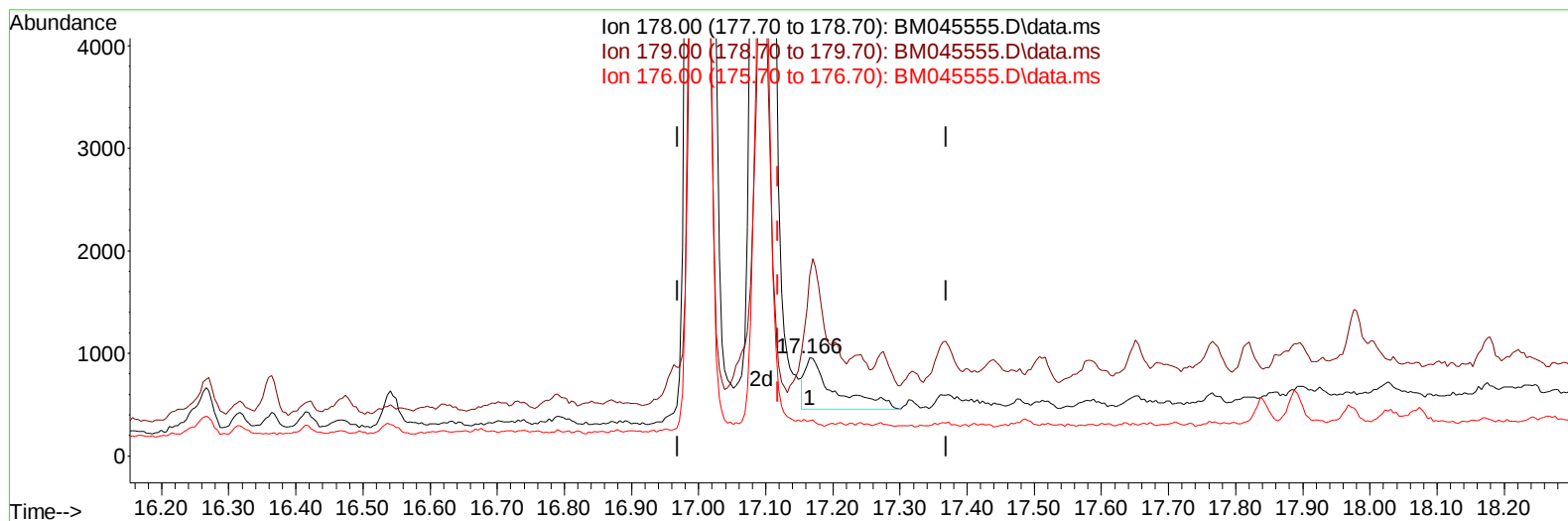
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
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TIC: BM045555.D\data.ms

(16) Anthracene

17.166min (+ 0.047) 0.18 ng/u1

response 1566

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	22.20	183.47#
176.00	23.40	35.88#
0.00	0.00	0.00

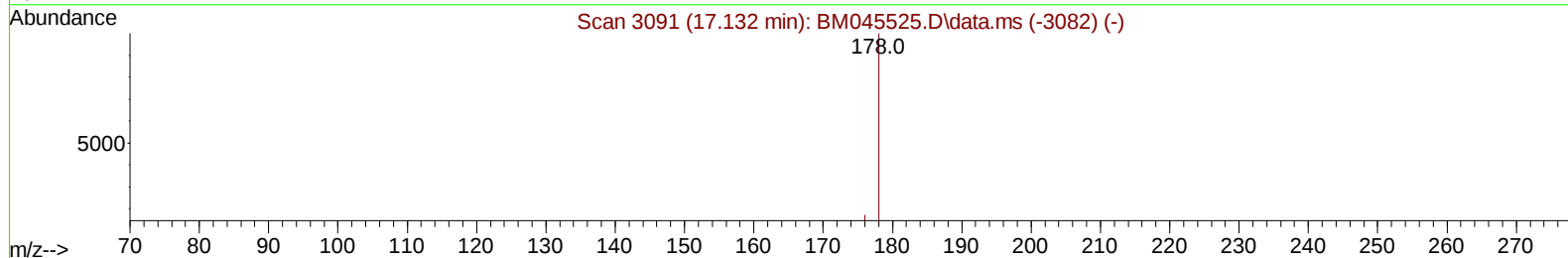
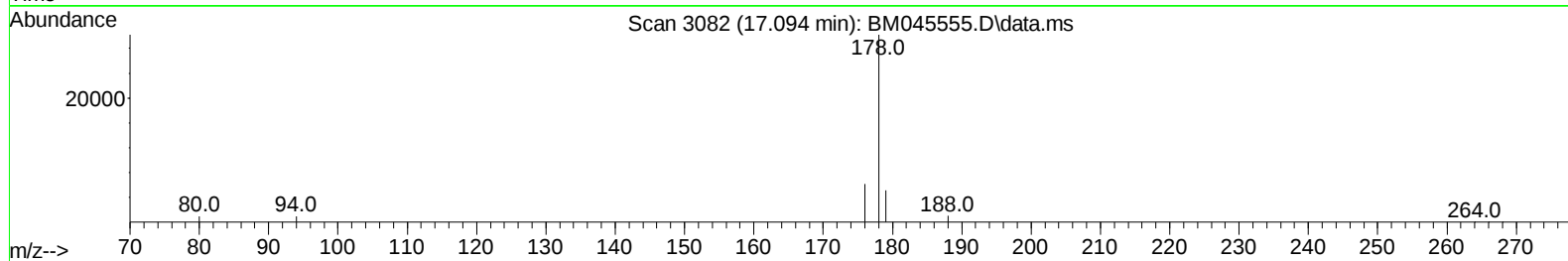
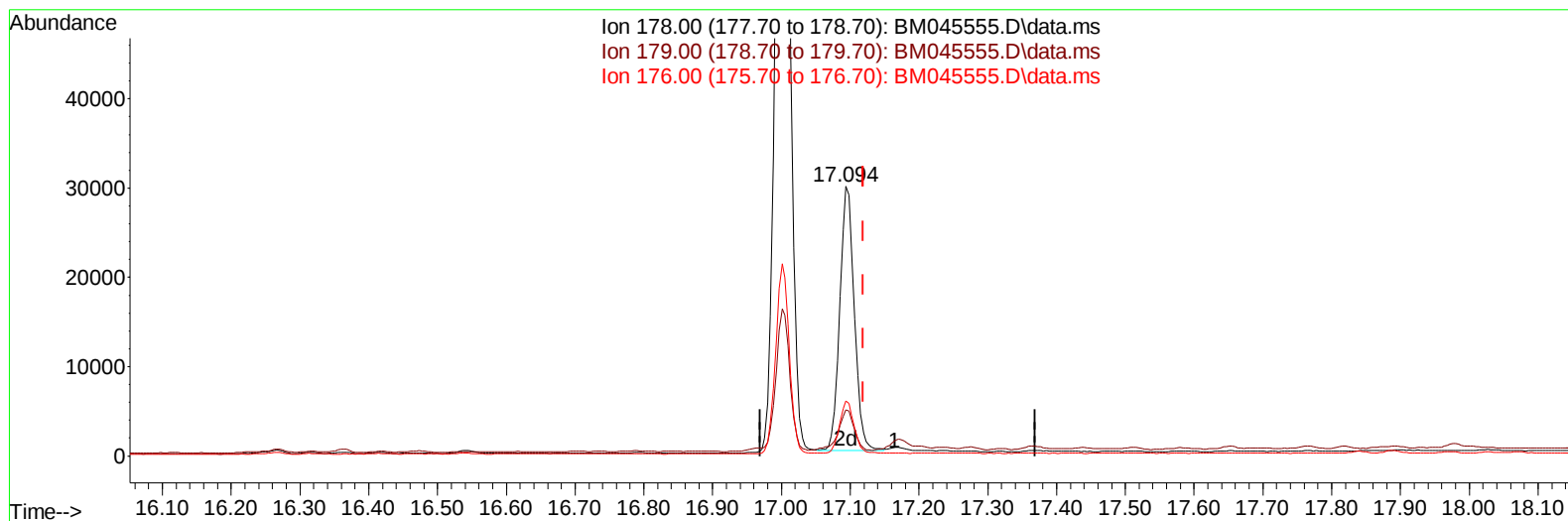
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
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Reviewed By :Yogesh Patel 04/25/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045555.D\data.ms

(16) Anthracene

17.094min (-0.025) 5.08 ng/u1 m

response 43415

Ion	Exp%	Act%
178.00	100.00	100.00
179.00	22.20	17.21#
176.00	23.40	20.46
0.00	0.00	0.00

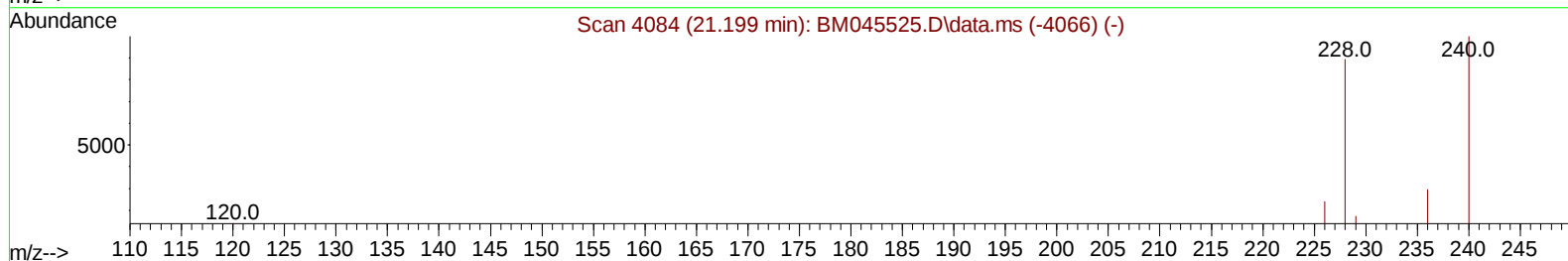
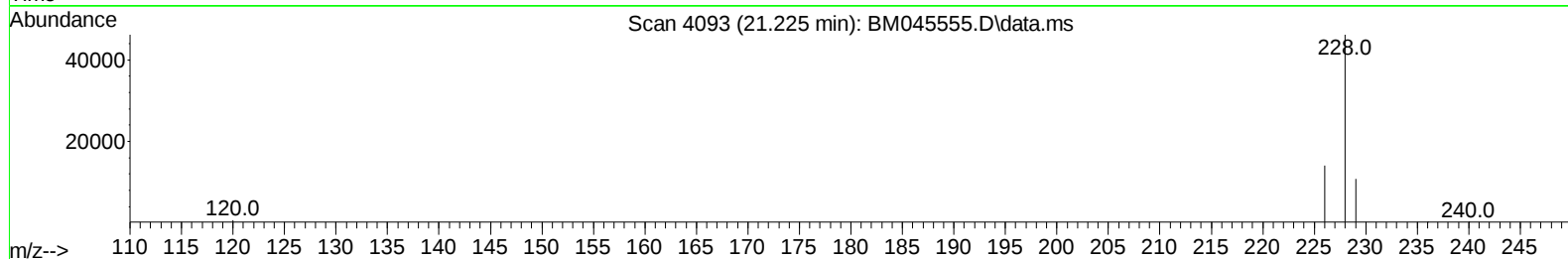
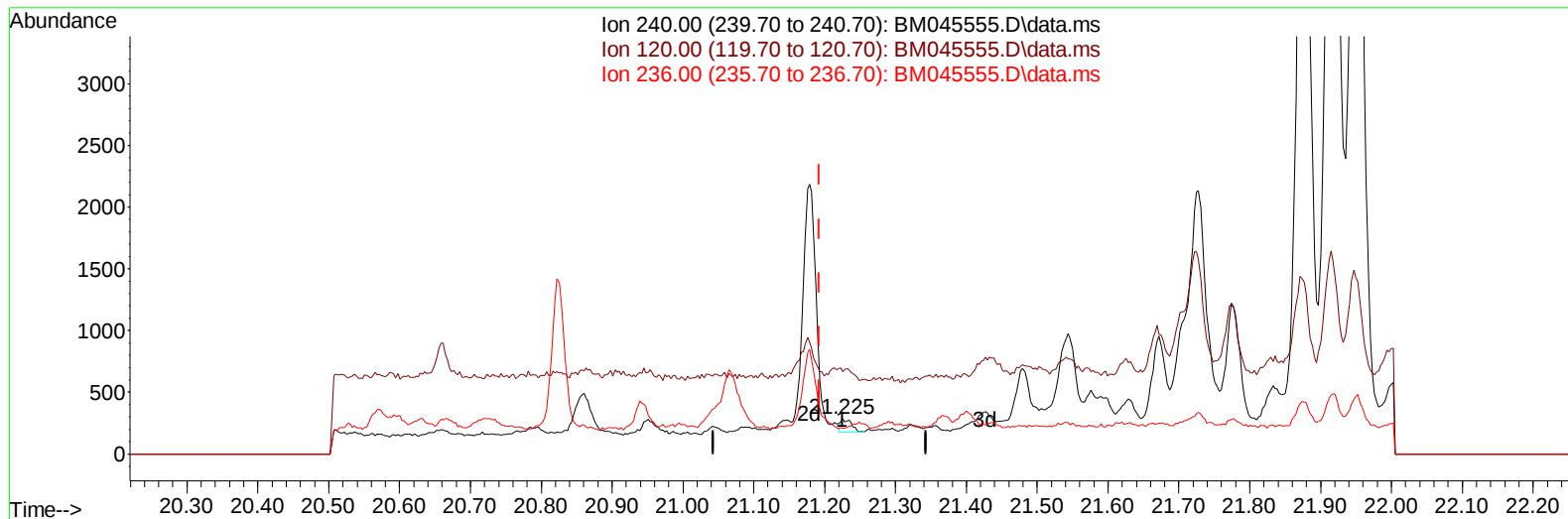
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
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TIC: BM045555.D\data.ms

(17) Chrysene-d12

21.225min (+ 0.032) 0.40 ng/u1

response 109

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	23.40	235.56#
236.00	35.90	73.94#
0.00	0.00	0.00

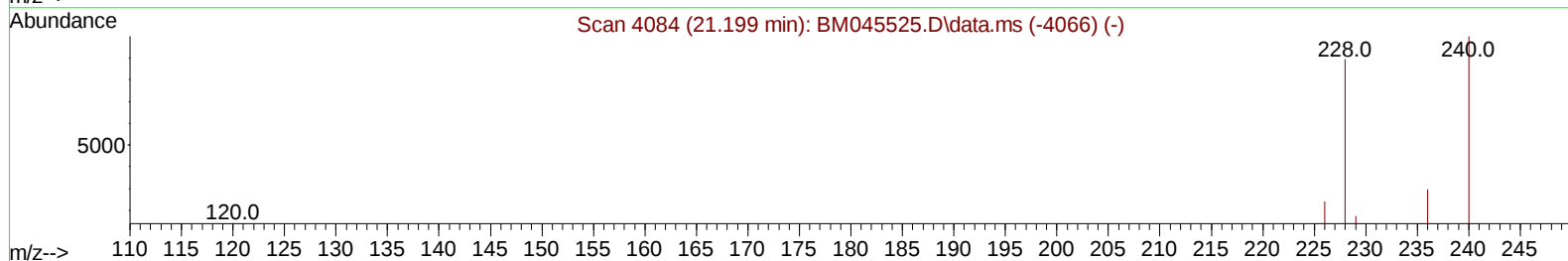
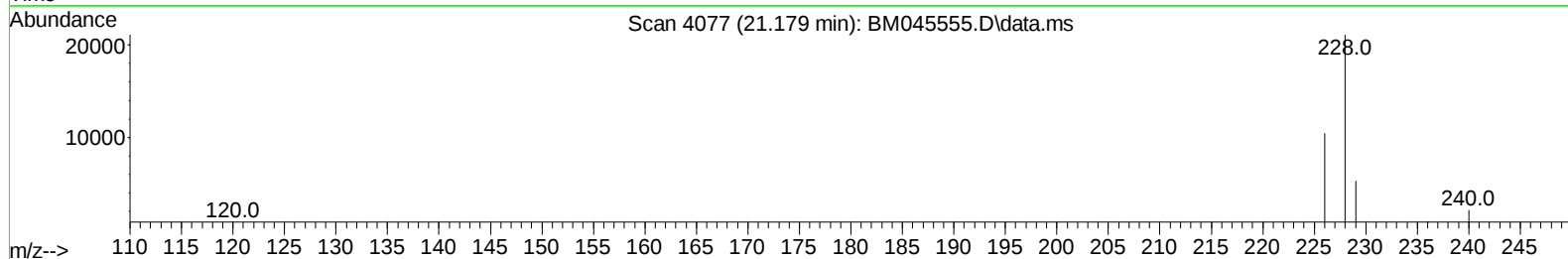
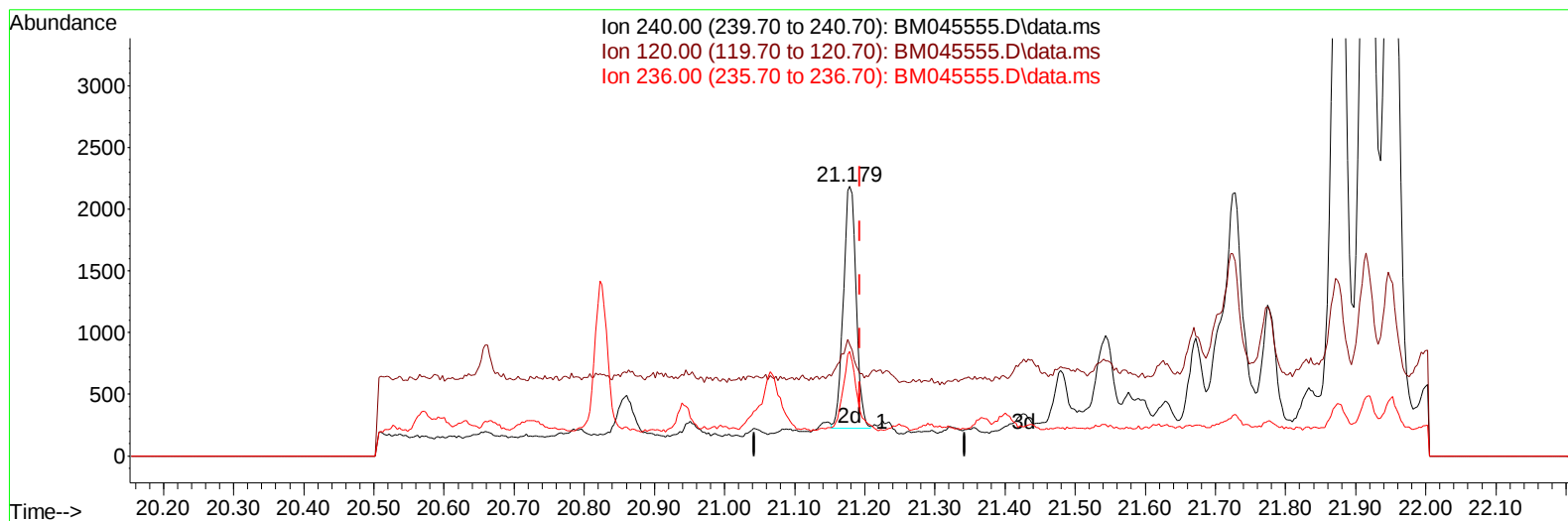
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/25/2024
Supervised By :mohammad ahmed 04/27/2024

Quant Time: Apr 25 09:27:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
Response via : Initial Calibration



TIC: BM045555.D\data.ms

(17) Chrysene-d12

21.179min (-0.014) 0.40 ng/ul m

response 2478

Ion	Exp%	Act%
240.00	100.00	100.00
120.00	23.40	41.46#
236.00	35.90	38.71
0.00	0.00	0.00

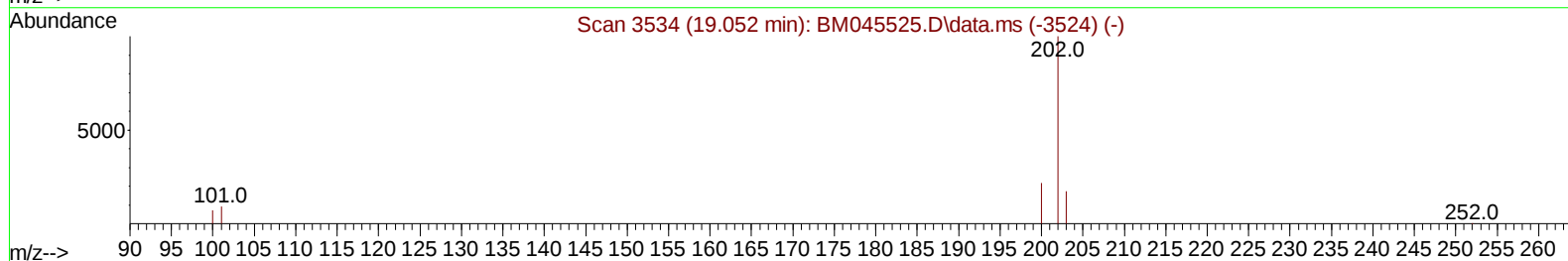
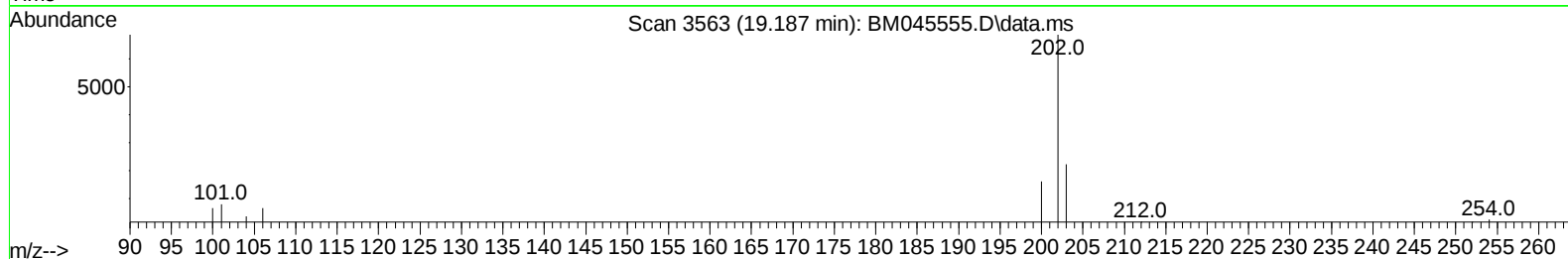
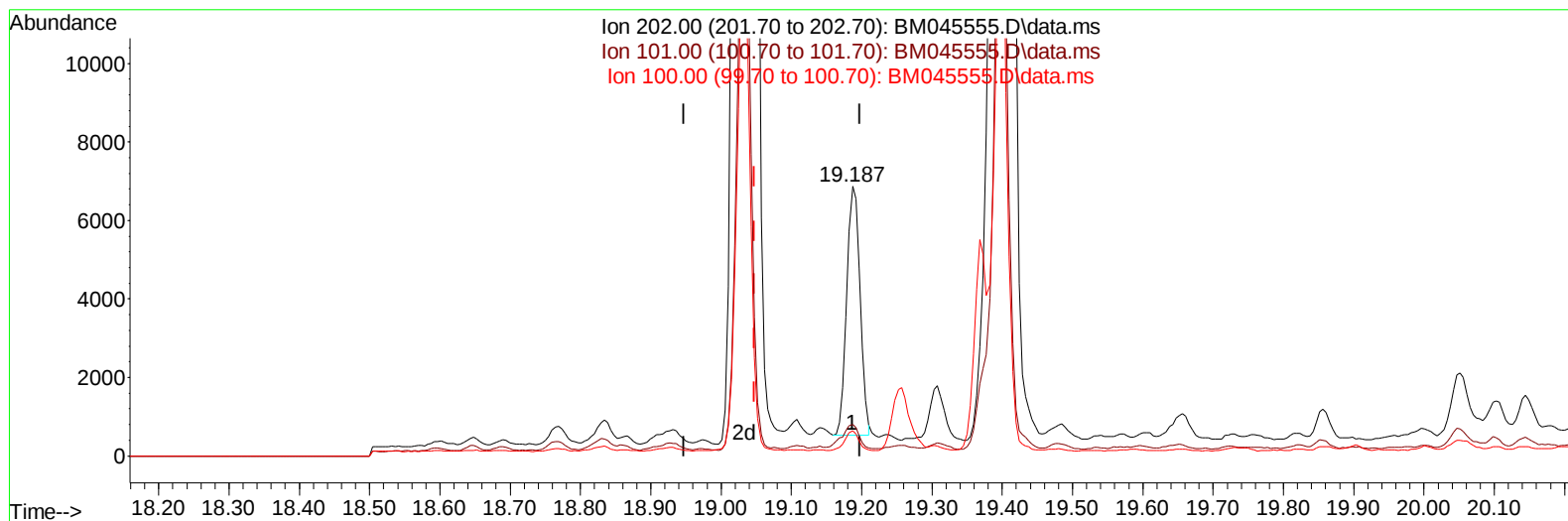
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
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TIC: BM045555.D\data.ms

(19) Fluoranthene (C)

19.187min (+ 0.140) 0.72 ng/u1

response 8285

Ion	Exp%	Act%
202.00	100.00	100.00
101.00	14.00	11.58
100.00	11.40	9.41
0.00	0.00	0.00

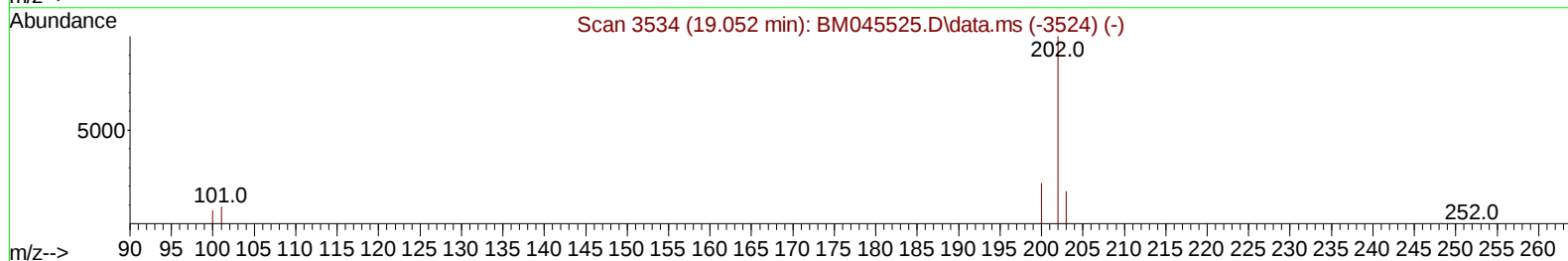
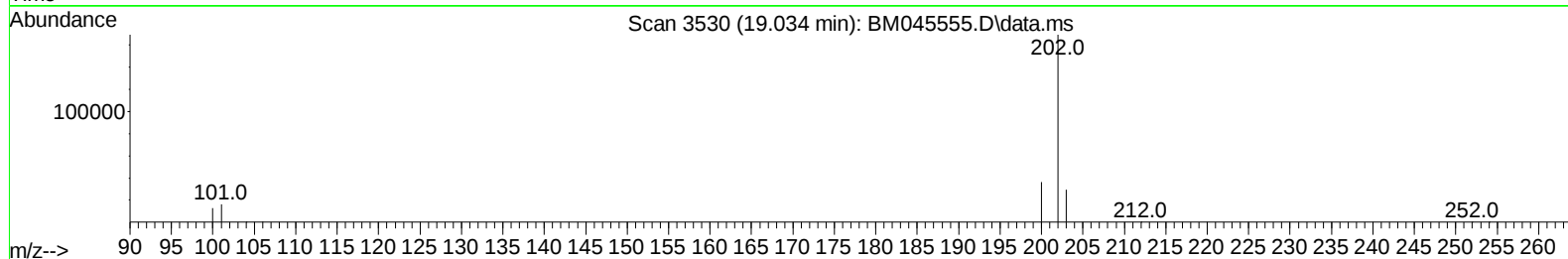
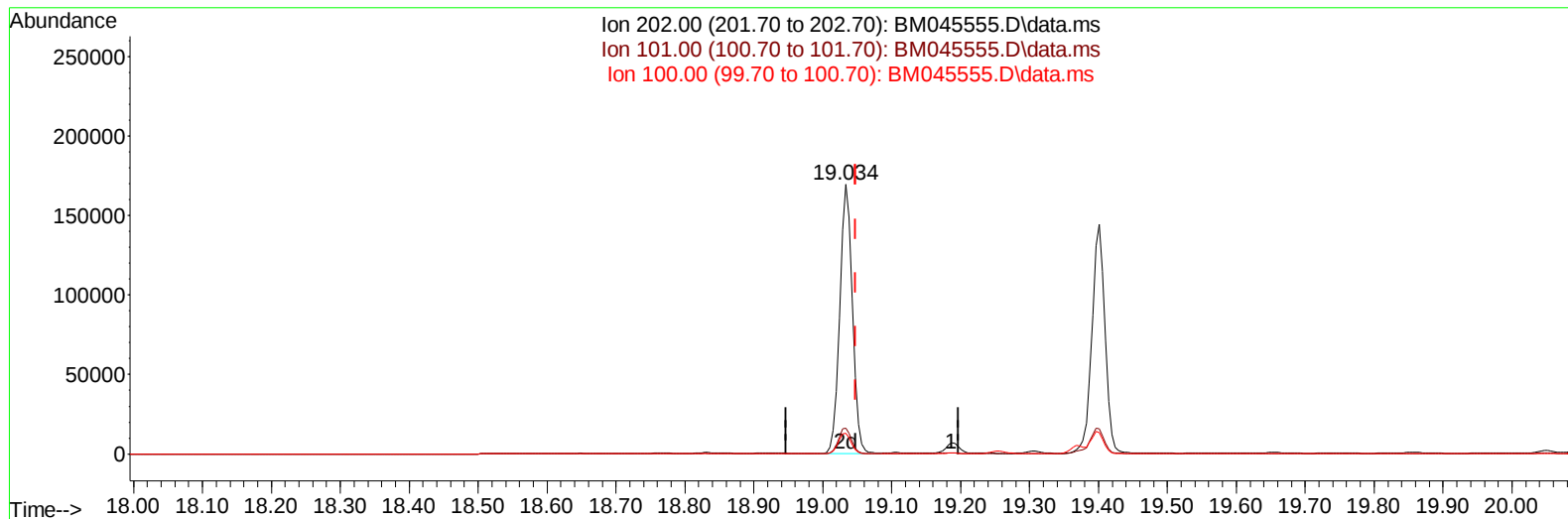
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
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TIC: BM045555.D\data.ms

(19) Fluoranthene (C)

19.034min (-0.014) 18.93 ng/ul m

response 216509

Ion	Exp%	Act%
202.00	100.00	100.00
101.00	14.00	9.65#
100.00	11.40	7.60#
0.00	0.00	0.00

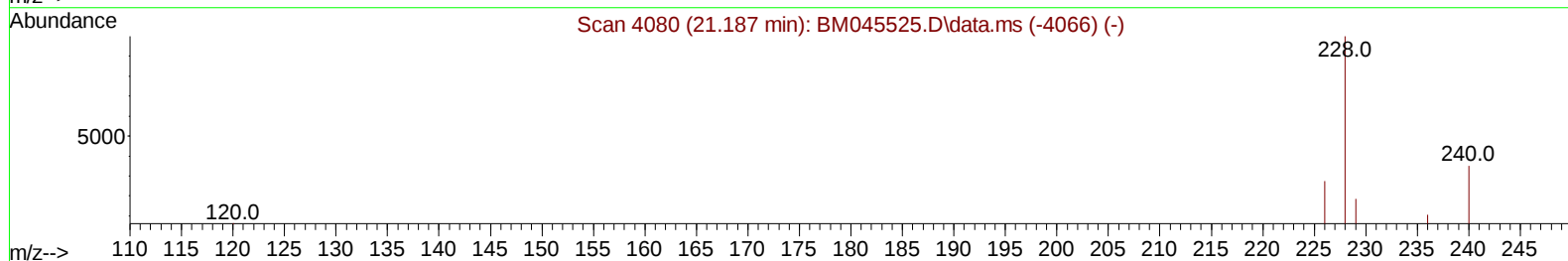
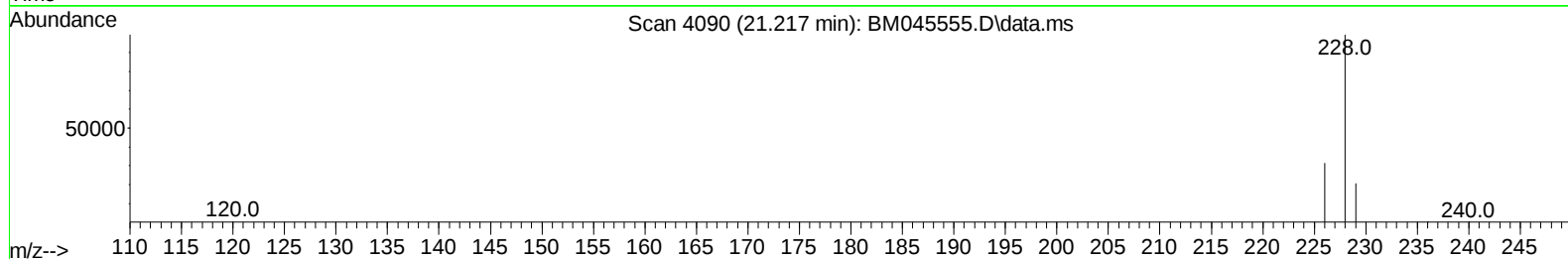
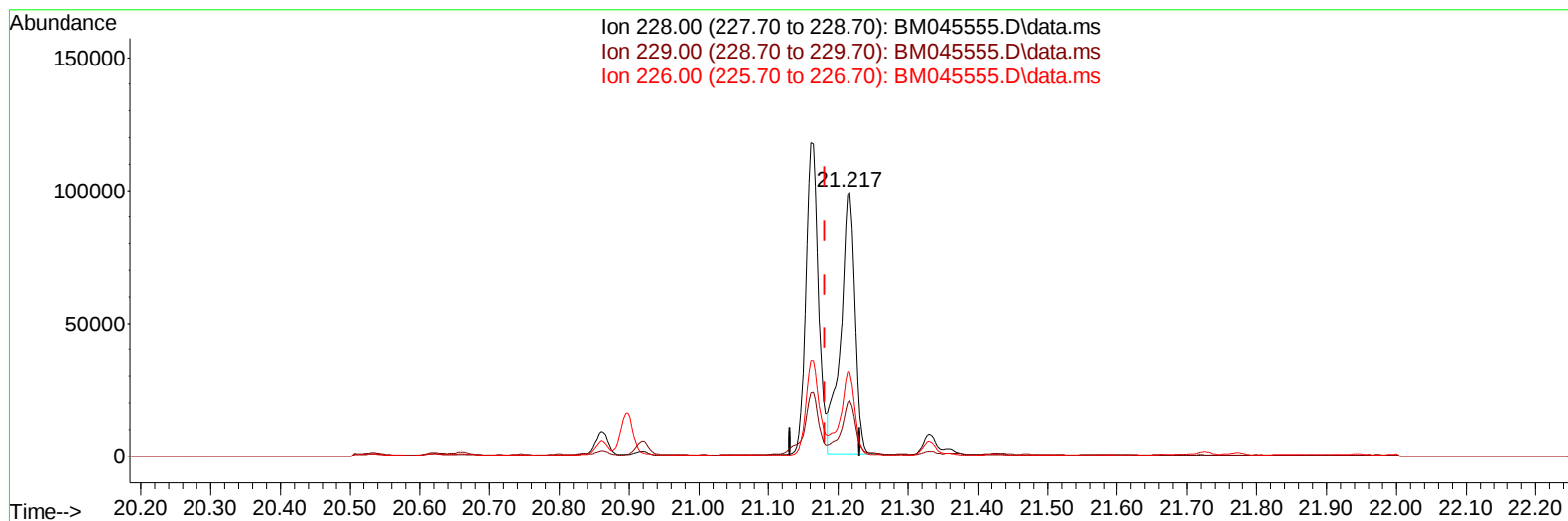
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

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TIC: BM045555.D\data.ms

(21) Benzo(a)anthracene

21.217min (+ 0.035) 17.67 ng/u1

response 139997

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	24.30	21.00
226.00	32.90	31.60
0.00	0.00	0.00

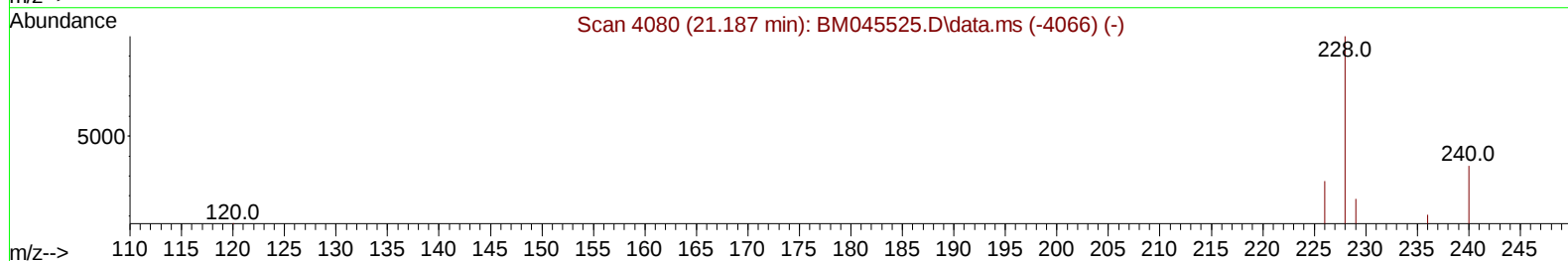
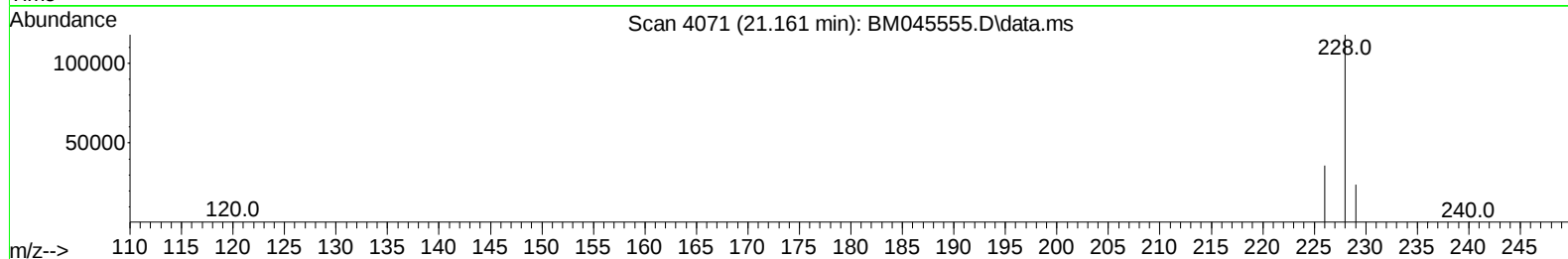
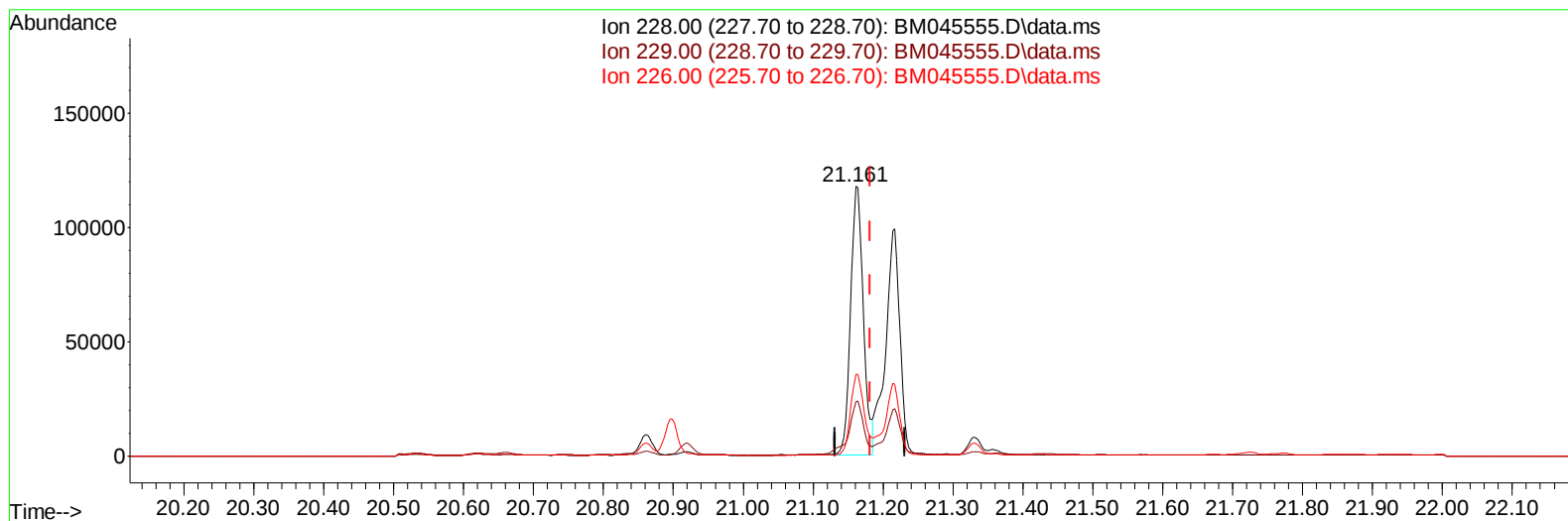
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
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Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
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TIC: BM045555.D\data.ms

(21) Benzo(a)anthracene

21.161min (-0.020) 18.63 ng/ul m

response 147533

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	24.30	20.15
226.00	32.90	30.35
0.00	0.00	0.00

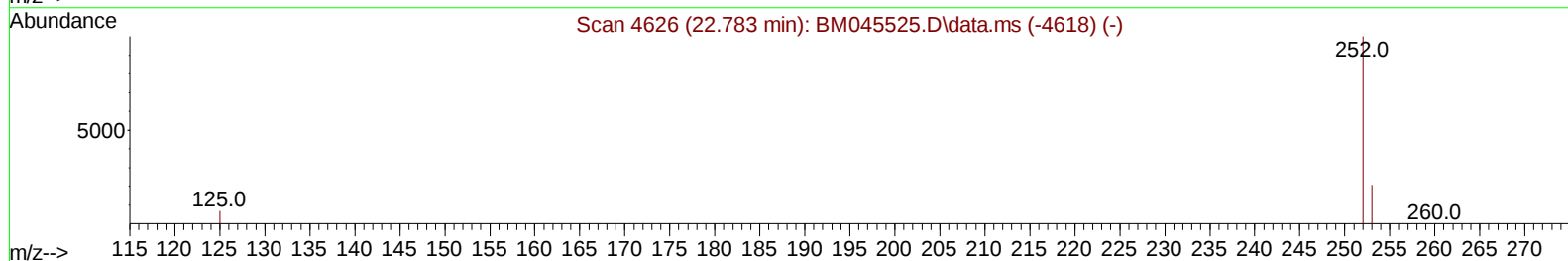
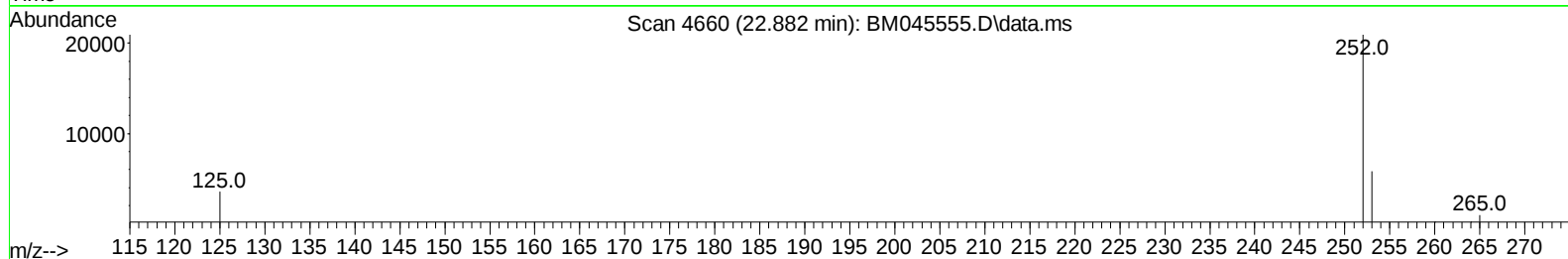
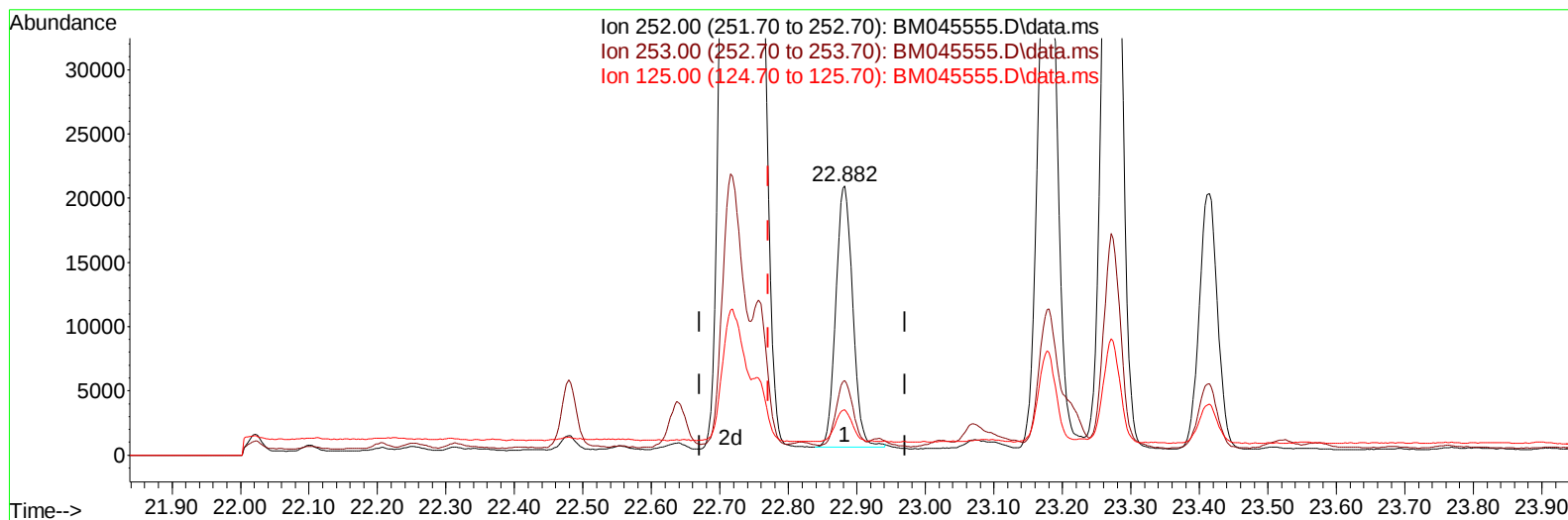
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Supervised By :mohammad ahmed 04/27/2024



TIC: BM045555.D\data.ms

(25) Benzo(k)fluoranthene

22.882min (+ 0.111) 2.22 ng/u1

response 34690

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	31.70	27.74
125.00	18.50	16.93
0.00	0.00	0.00

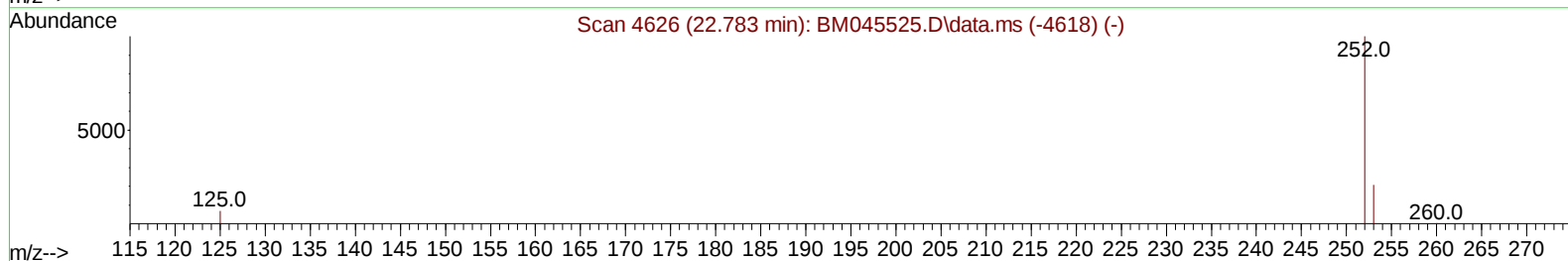
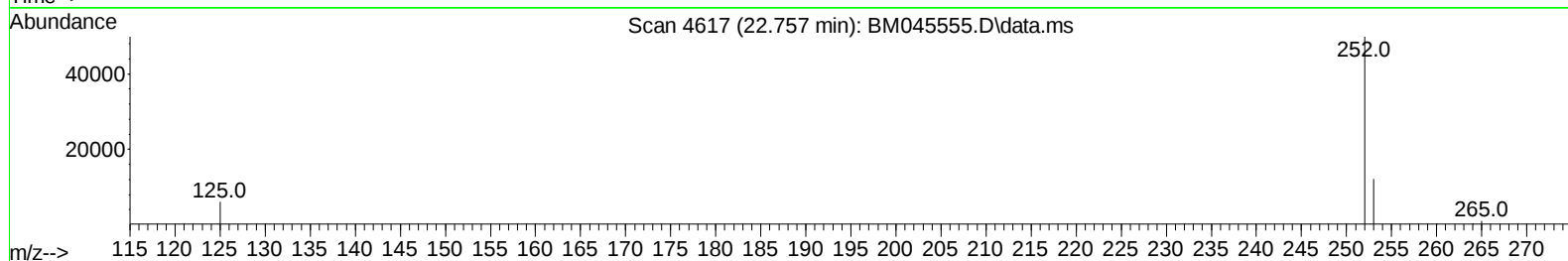
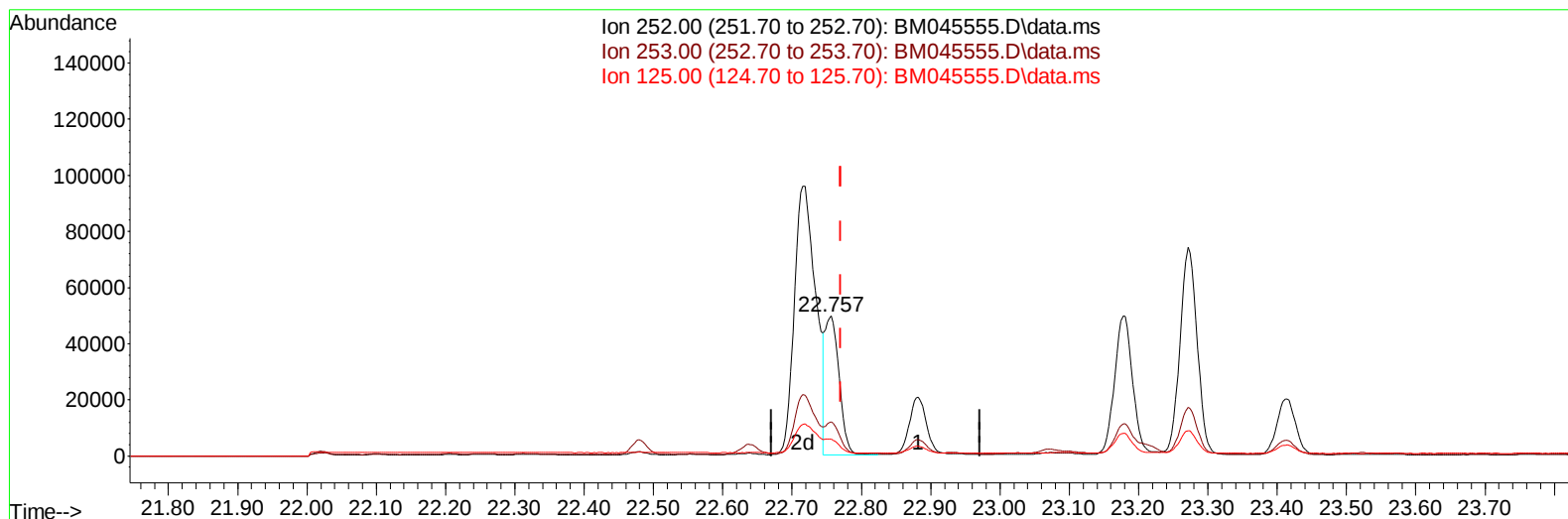
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

Manual IntegrationsAPPROVED

Quant Time: Apr 25 09:27:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 24 05:17:39 2024
Response via : Initial Calibration

Reviewed By :Yogesh Patel 04/25/2024
Supervised By :mohammad ahmed 04/27/2024



TIC: BM045555.D\data.ms

(25) Benzo(k)fluoranthene

22.757min (-0.014) 4.41 ng/u1 m

response 68930

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	31.70	24.16#
125.00	18.50	12.06#
0.00	0.00	0.00

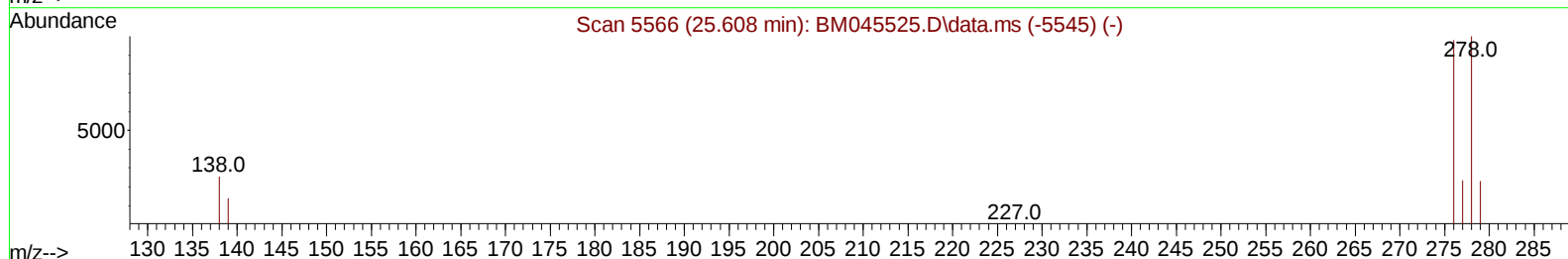
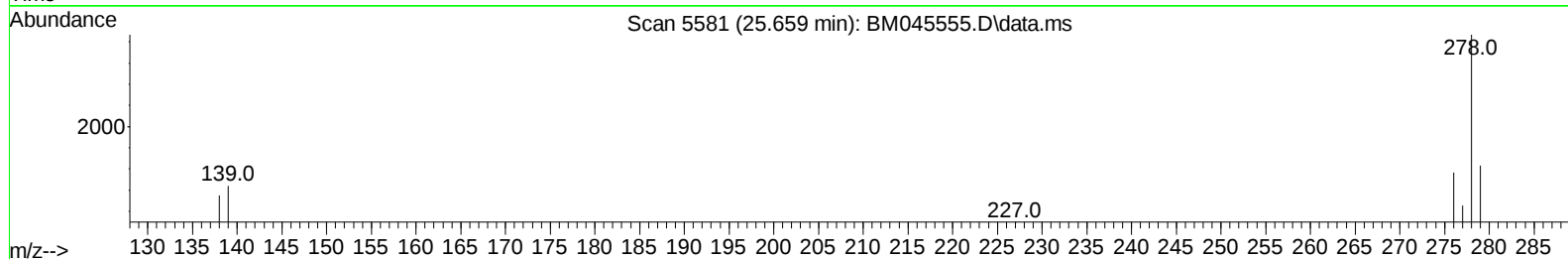
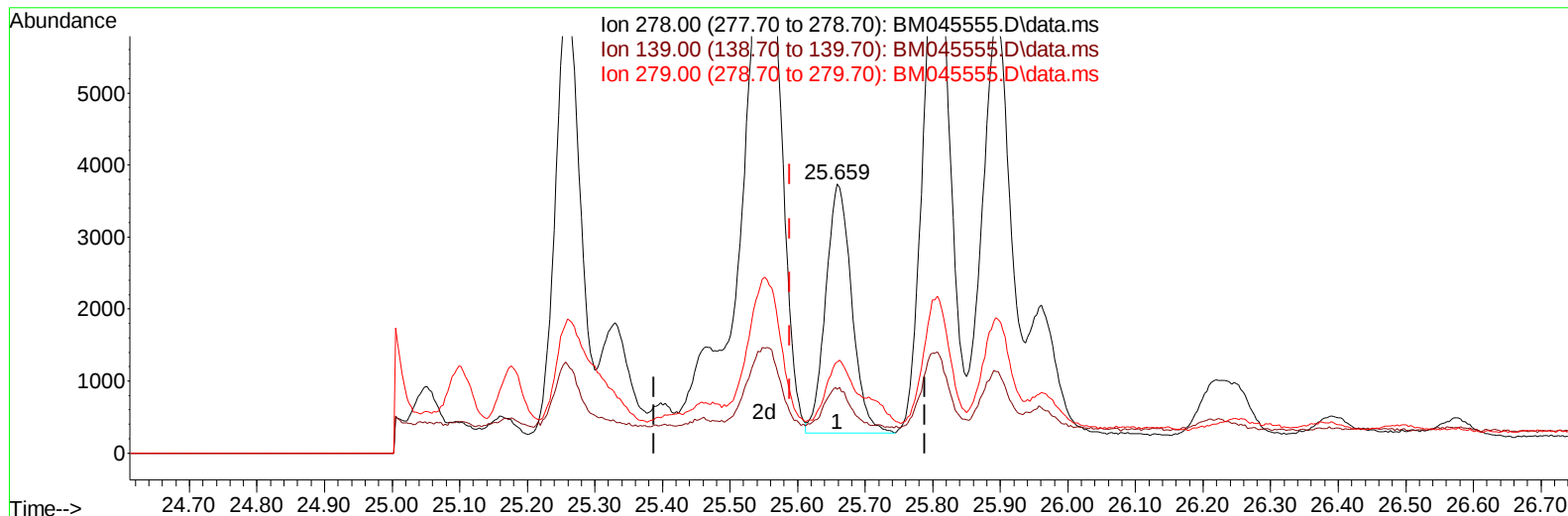
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
Data File : BM045555.D
Acq On : 25 Apr 2024 08:57
Operator : MA/JU
Sample : P2104-21
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COAL8

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(28) Dibenzo(a,h)anthracene

25.659min (+ 0.071) 0.62 ng/u1

response 9236

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	23.80	23.75
279.00	36.80	33.77
0.00	0.00	0.00

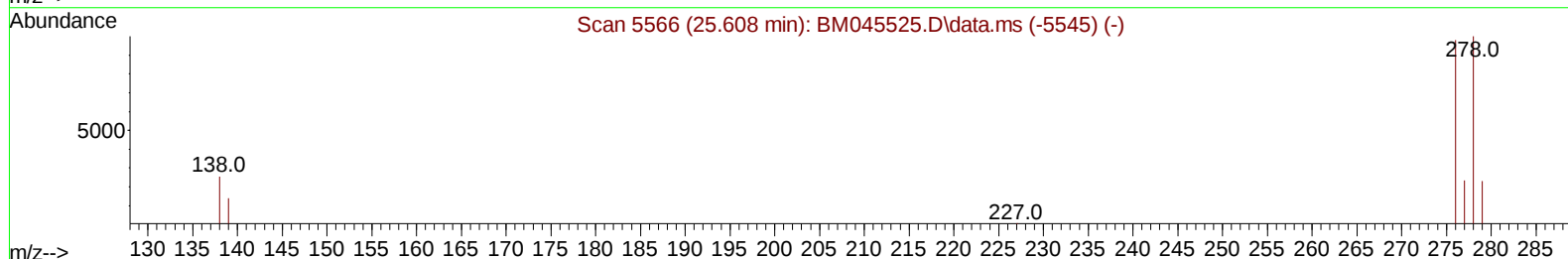
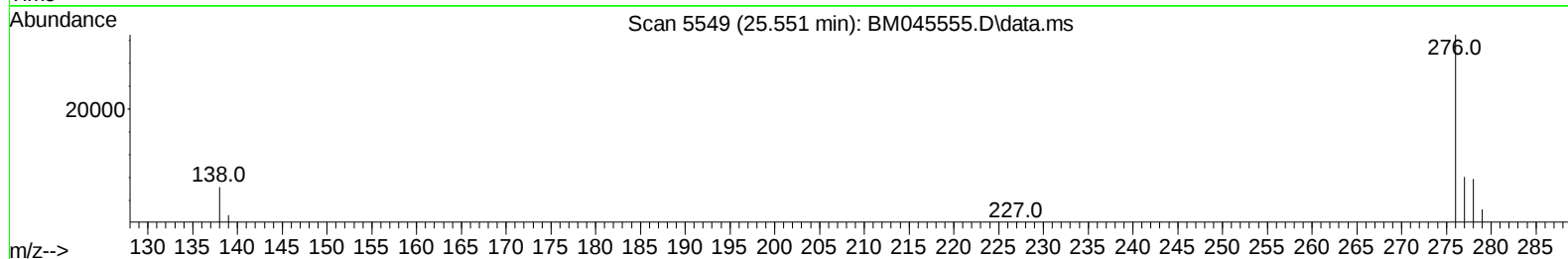
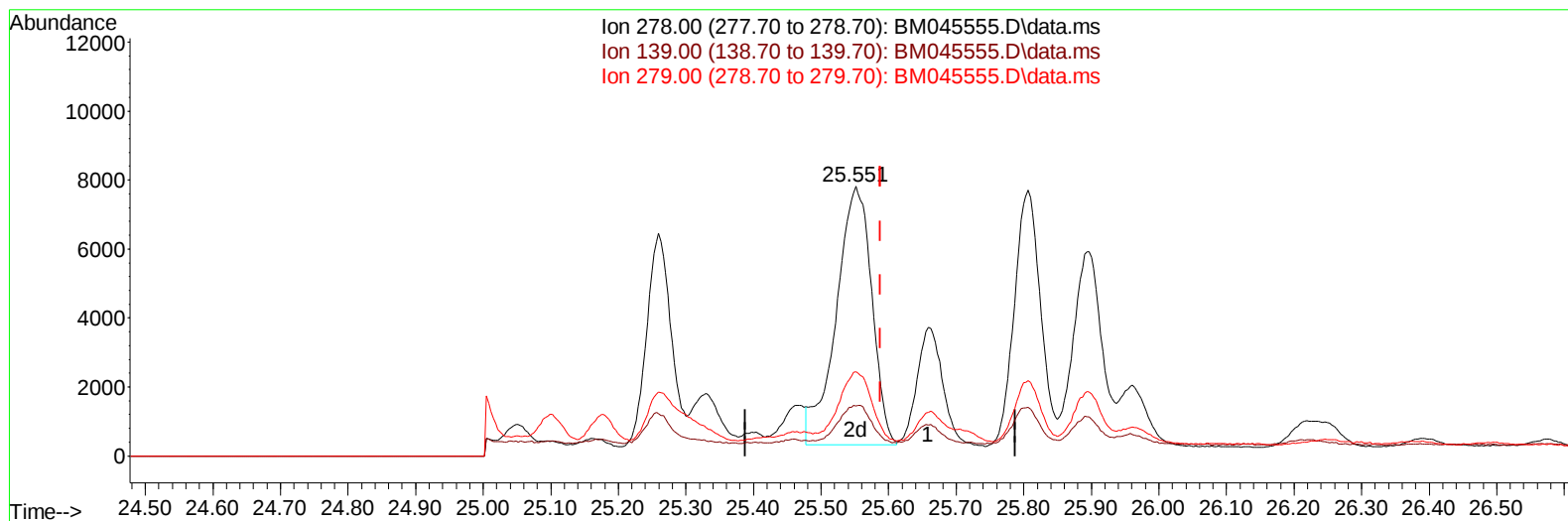
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042424\
 Data File : BM045555.D
 Acq On : 25 Apr 2024 08:57
 Operator : MA/JU
 Sample : P2104-21
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 COAL8

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TIC: BM045555.D\data.ms

(28) Dibenzo(a,h)anthracene

25.551min (-0.037) 1.85 ng/u1 m

response 27343

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	23.80	18.61#
279.00	36.80	31.27
0.00	0.00	0.00

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 Data File : BM045555.D
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 Operator : MA/JU
 Sample : P2104-21
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 COAL8

Manual IntegrationsAPPROVED

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Compound	R.T.	Q	Ion	Response	Conc	Units	Dev(Min)

Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.547	152		994	0.400	ng/ul	-0.02
4) Naphthalene-d8	10.314	136		2674	0.400	ng/ul	#-0.02
9) Acenaphthene-d10	14.196	164		1441	0.400	ng/ul	-0.01
13) Phenanthrene-d10	16.959	188		3135m	0.400	ng/ul	-0.02
17) Chrysene-d12	21.179	240		2478m	0.400	ng/ul	-0.01
23) Perylene-d12	23.365	264		3681	0.400	ng/ul	-0.02
System Monitoring Compounds							
3) 1,4-Dioxane-d8	3.163	96		4702	3.529	ng/ul	-0.01
6) 2-Methylnaphthalene-d10	11.920	152		829	0.235	ng/ul	-0.01
18) Fluoranthene-d10	19.001	212		1822	0.234	ng/ul	-0.02
Target Compounds							
						Qvalue	
5) Naphthalene	10.358	128		4547	0.633	ng/ul#	90
7) 2-Methylnaphthalene	11.991	142		2911	0.710	ng/ul	98
8) 1-Methylnaphthalene	12.211	142		1543	0.335	ng/ul	97
10) Acenaphthylene	13.918	152		16266	2.289	ng/ul#	94
11) Acenaphthene	14.261	153		4836	0.916	ng/ul	97
12) Fluorene	15.260	166		13030	2.308	ng/ul	99
15) Phenanthrene	17.001	178		145387m	15.924	ng/ul	
16) Anthracene	17.094	178		43415m	5.082	ng/ul	
19) Fluoranthene	19.034	202		216509m	18.933	ng/ul	
20) Pyrene	19.401	202		189411	16.114	ng/ul#	91
21) Benzo(a)anthracene	21.161	228		147533m	18.626	ng/ul	
22) Chrysene	21.217	228		142092	11.667	ng/ul	98
24) Benzo(b)fluoranthene	22.716	252		206248	16.657	ng/ul	84
25) Benzo(k)fluoranthene	22.757	252		68930m	4.406	ng/ul	
26) Benzo(a)pyrene	23.271	252		127486	9.927	ng/ul#	74
27) Indeno(1,2,3-cd)pyrene	25.545	276		93639	5.017	ng/ul#	90
28) Dibenzo(a,h)anthracene	25.551	278		27343m	1.847	ng/ul	
29) Benzo(g,h,i)perylene	26.212	276		74260	4.428	ng/ul#	92

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

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