

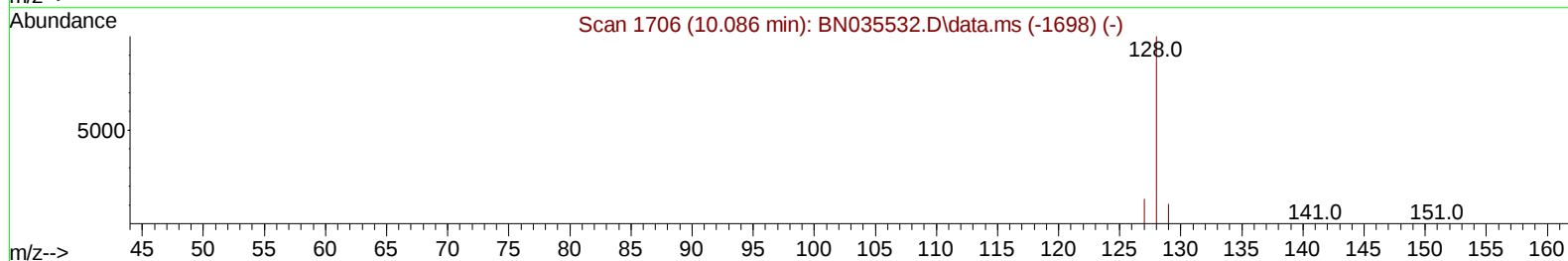
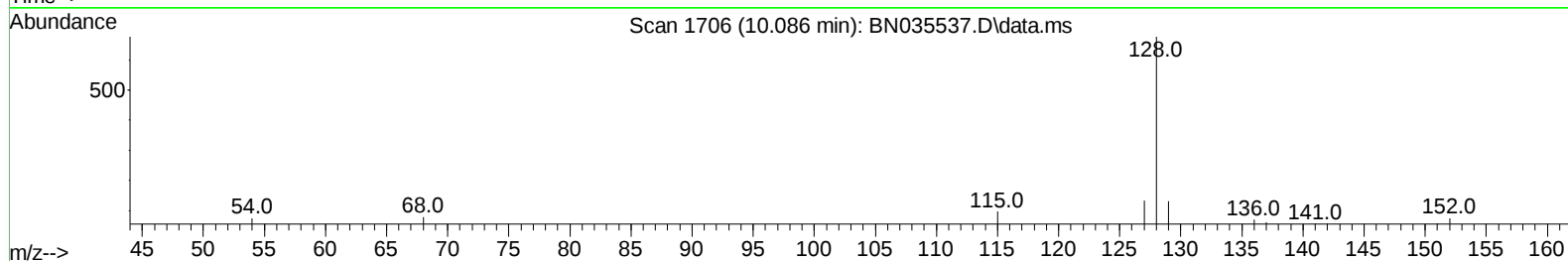
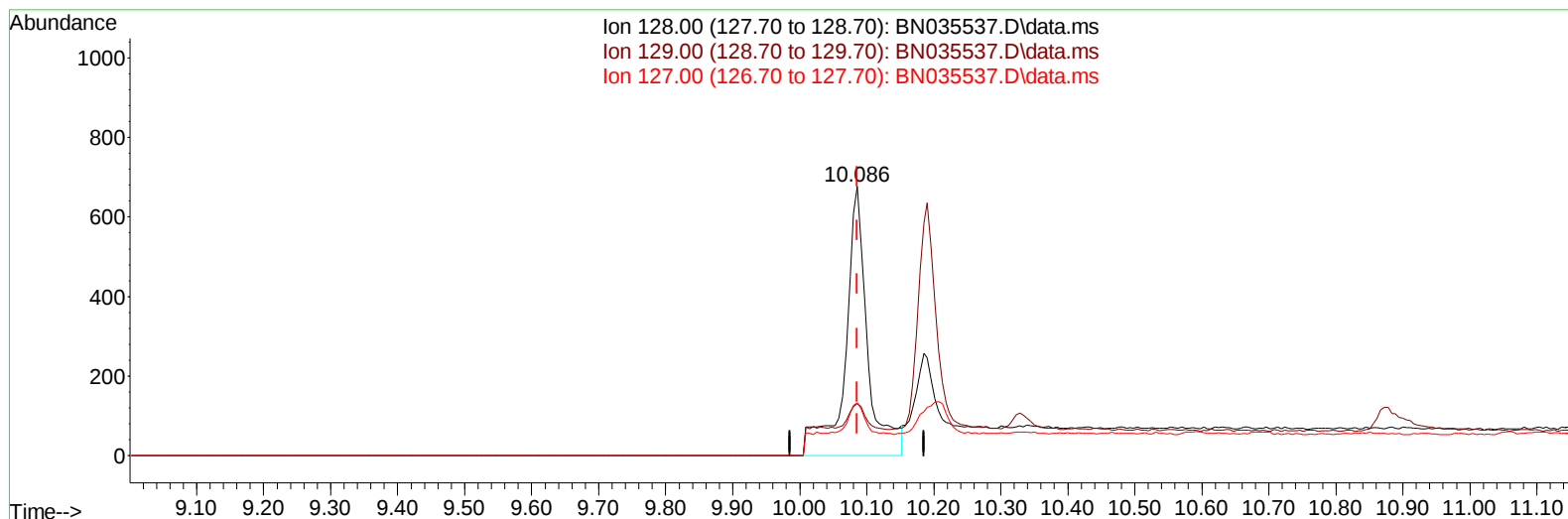
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
Response via : Initial Calibration

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



TIC: BN035537.D\data.ms

(5) Naphthalene

10.086min (+ 0.000) 0.07 ng/u1

response 1556

Ion	Exp%	Act%
128.00	100.00	100.00
129.00	12.40	19.35#
127.00	14.30	19.65#
0.00	0.00	0.00

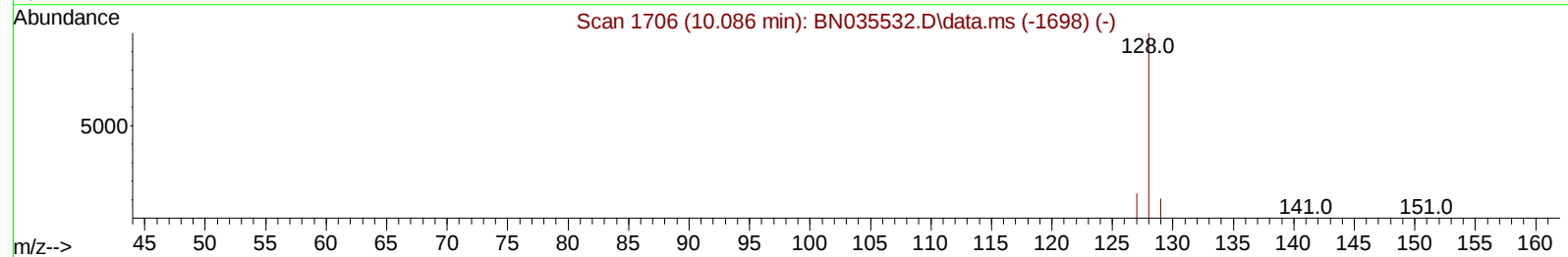
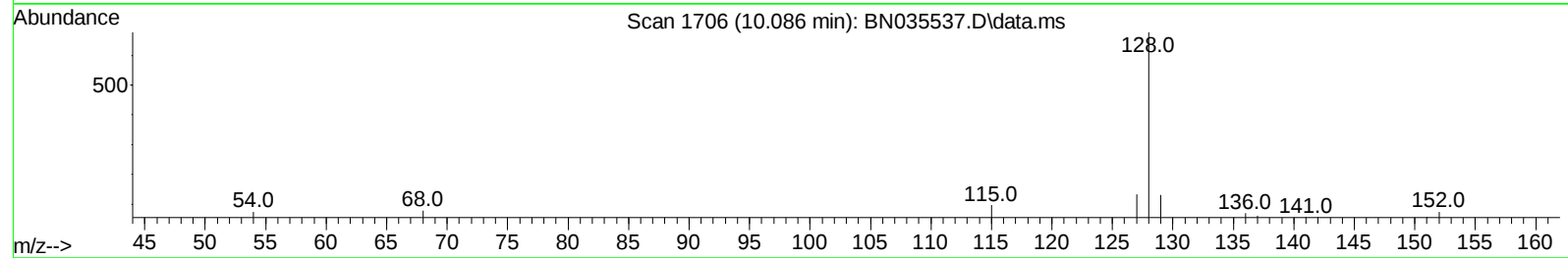
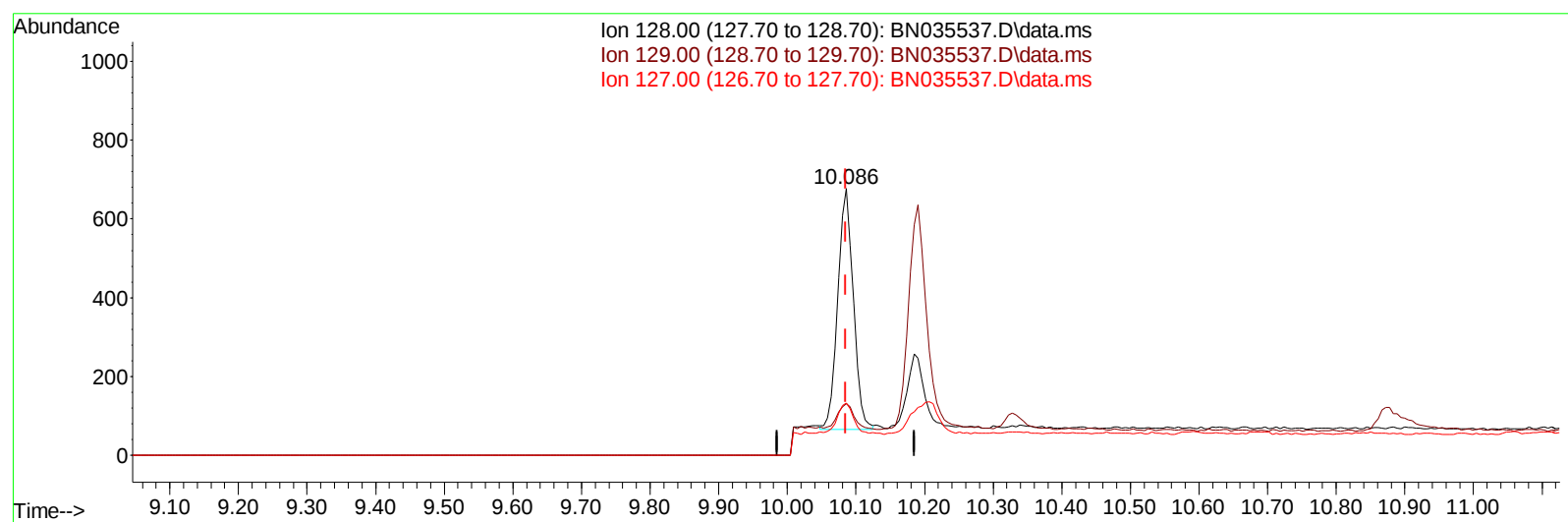
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
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Response via : Initial Calibration

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



TIC: BN035537.D\data.ms

(5) Naphthalene

10.086min (+ 0.000) 0.04 ng/ul m

response 963

Ion	Exp%	Act%
128.00	100.00	100.00
129.00	12.40	19.35#
127.00	14.30	19.65#
0.00	0.00	0.00

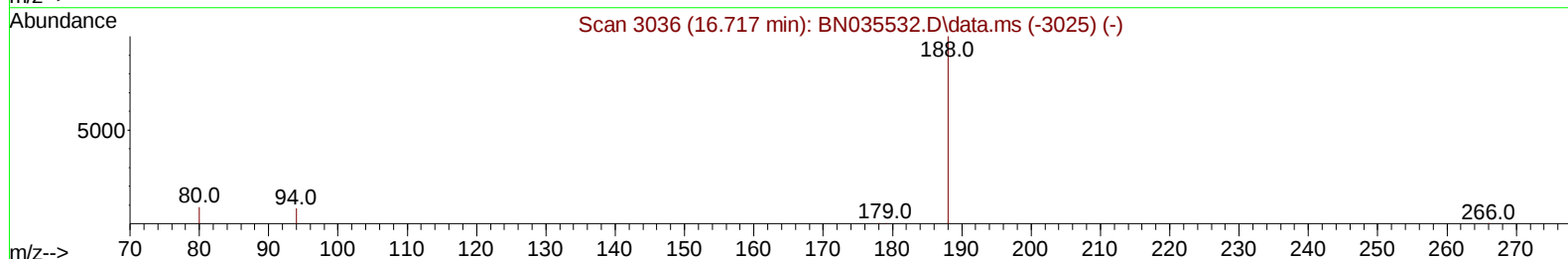
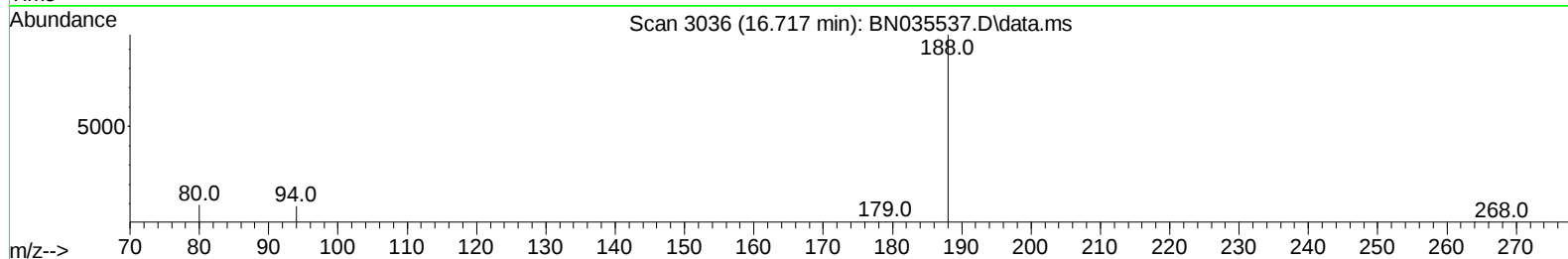
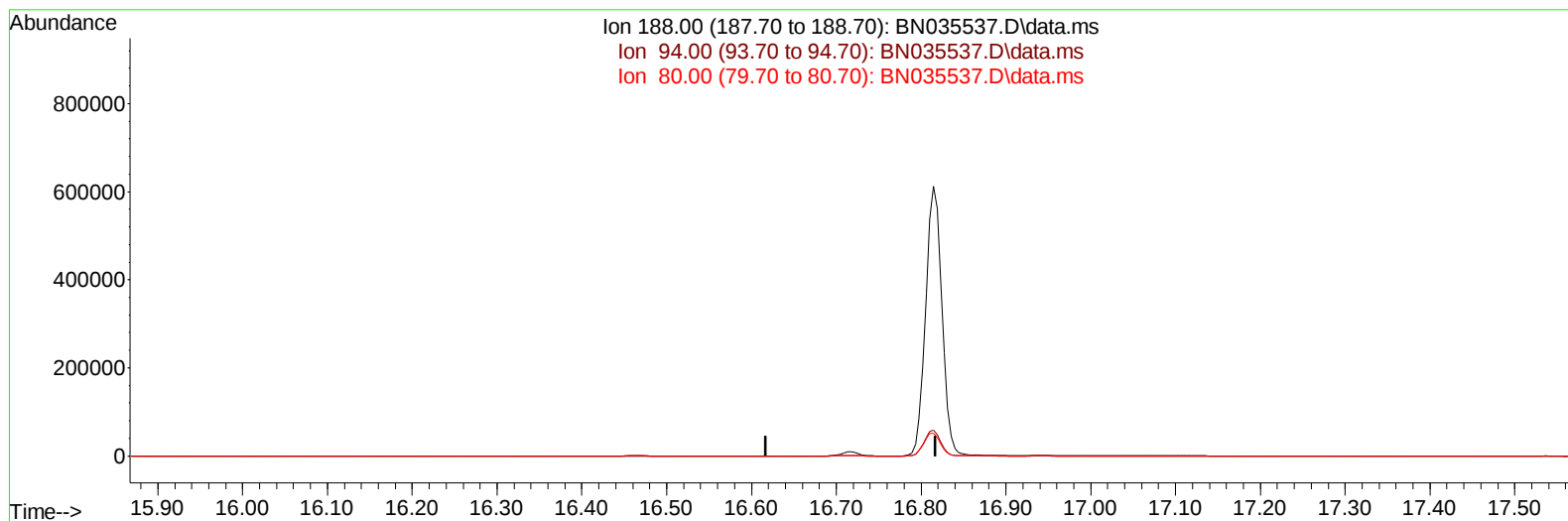
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

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TIC: BN035537.D\data.ms

(13) Phenanthrene-d10 (I)

16.717min (-16.717) 0.00 ng/u1

response 0

Ion	Exp%	Act%
188.00	100.00	0.00
94.00	7.00	0.00#
80.00	7.60	0.00#
0.00	0.00	0.00

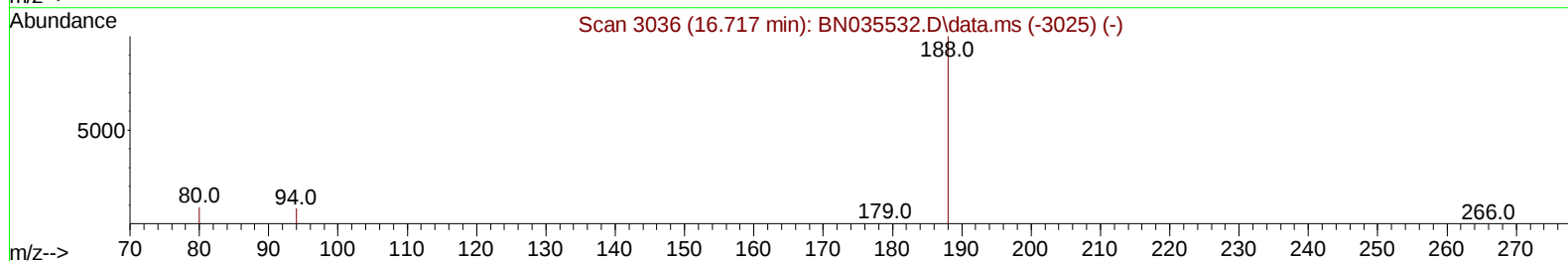
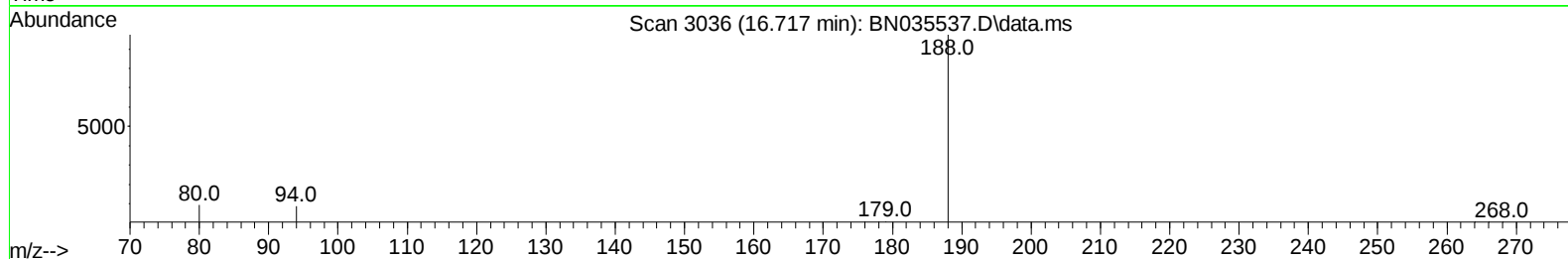
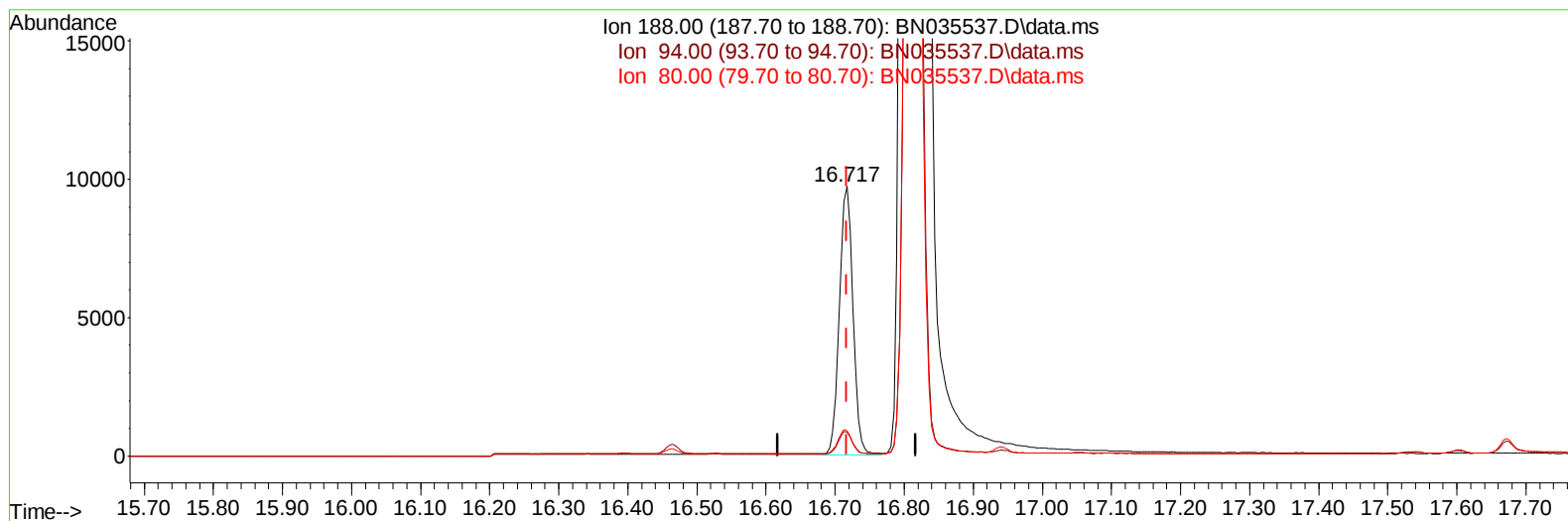
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
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Reviewed By :Yogesh Patel 12/12/2024
Supervised By :mohammad ahmed 12/12/2024



TIC: BN035537.D\data.ms

(13) Phenanthrene-d10 (I)

16.717min (+ 0.000) 0.40 ng/ul m

response 13273

Ion	Exp%	Act%
188.00	100.00	100.00
94.00	7.00	8.95#
80.00	7.60	9.45#
0.00	0.00	0.00

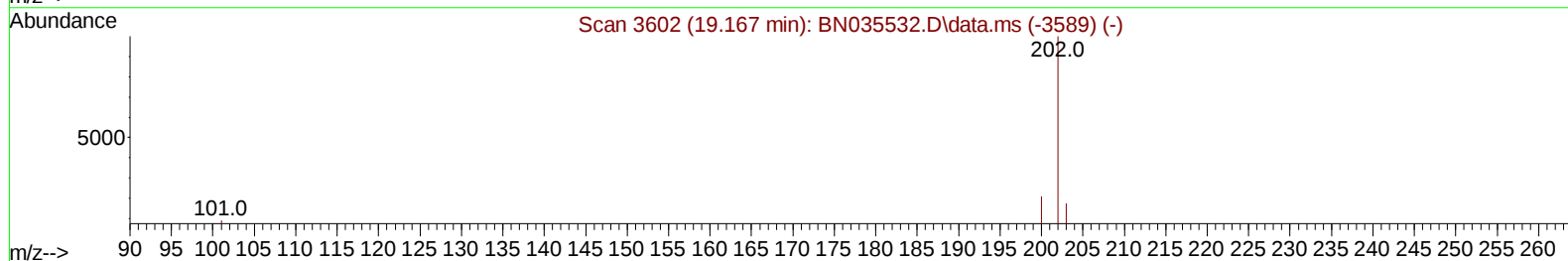
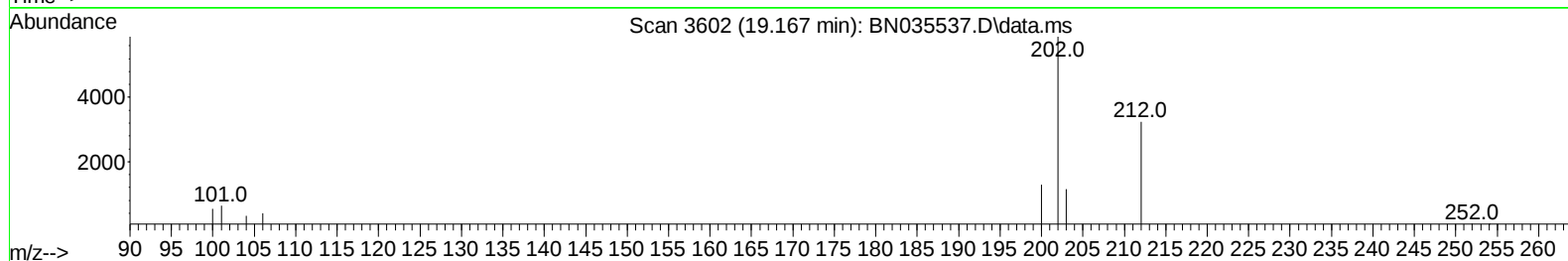
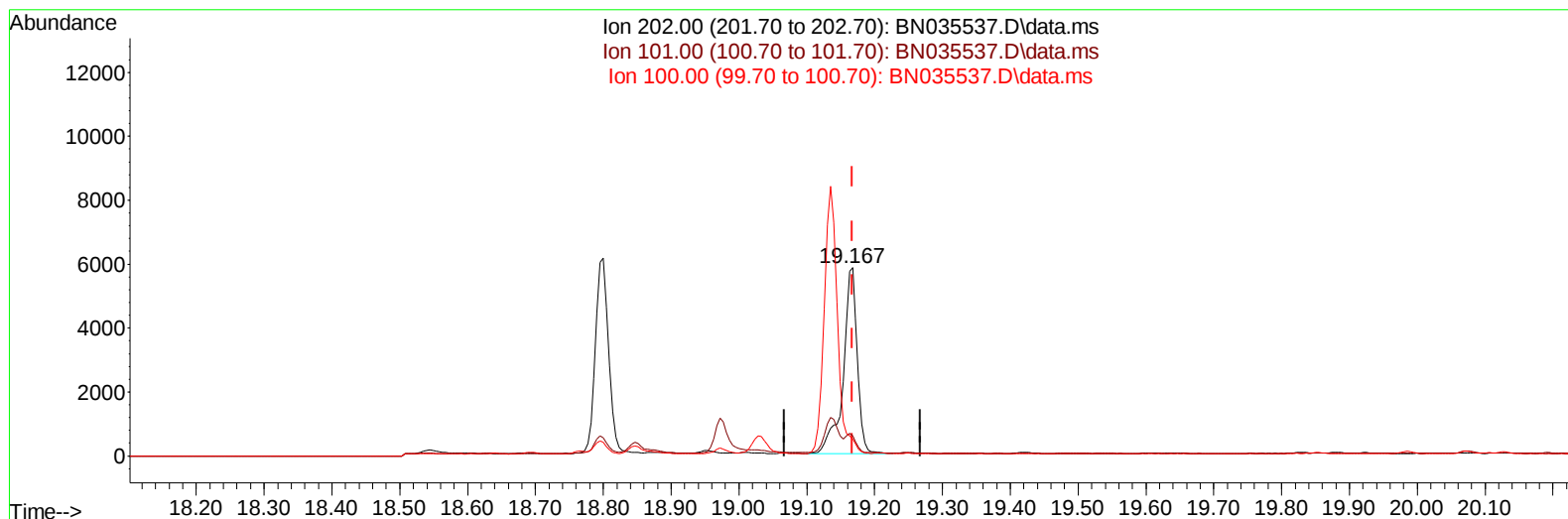
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

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TIC: BN035537.D\data.ms

(20) Pyrene

19.167min (+ 0.000) 0.28 ng/u1

response 8569

Ion	Exp%	Act%
202.00	100.00	100.00
101.00	7.80	10.74#
100.00	6.40	9.01#
0.00	0.00	0.00

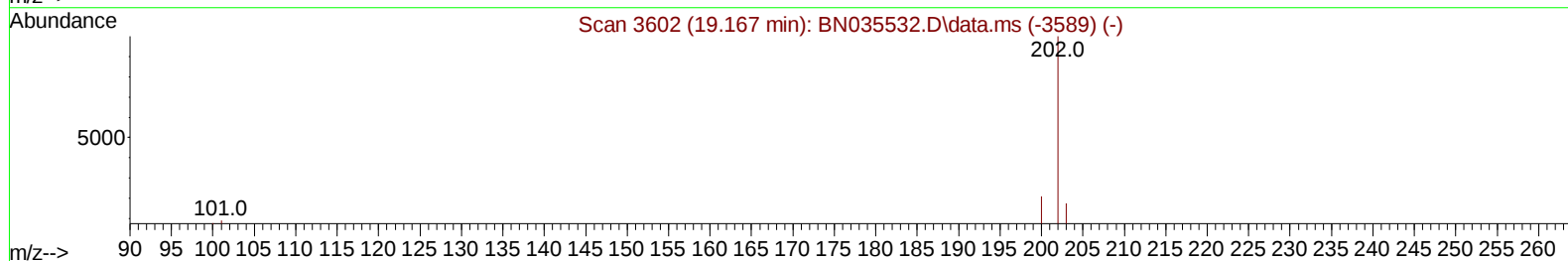
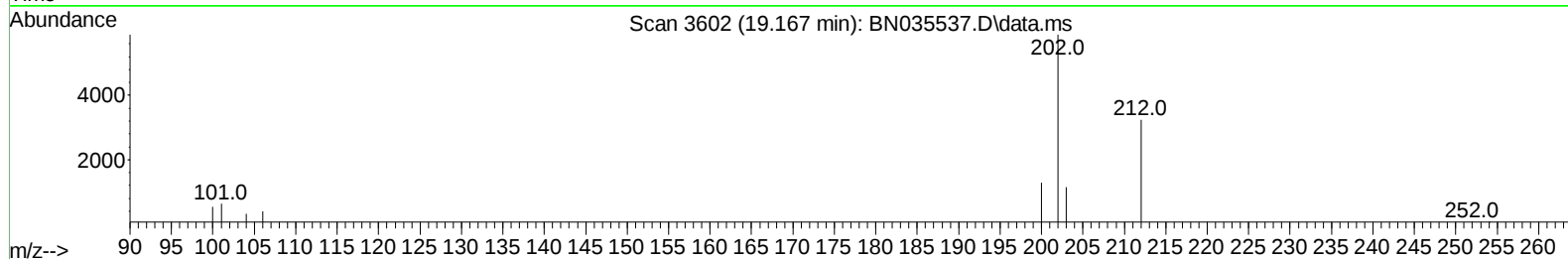
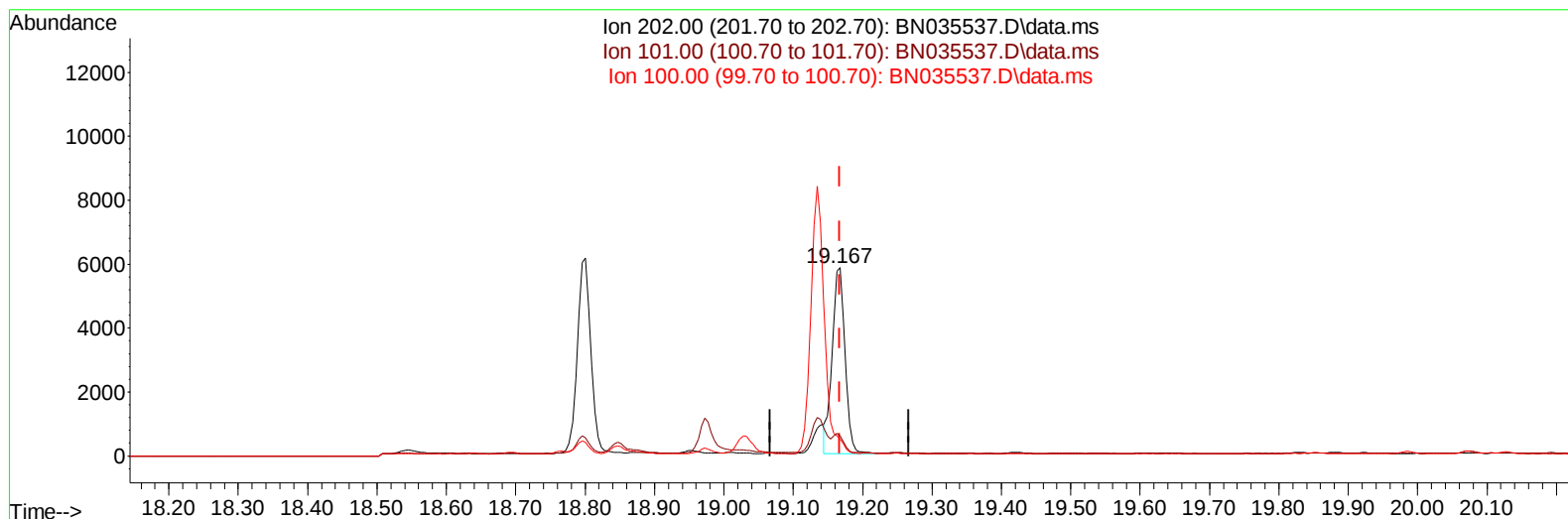
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Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
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Reviewed By :Yogesh Patel 12/12/2024
Supervised By :mohammad ahmed 12/12/2024



TIC: BN035537.D\data.ms

(20) Pyrene

19.167min (+ 0.000) 0.25 ng/ul m

response 7569

Ion	Exp%	Act%
202.00	100.00	100.00
101.00	7.80	10.74#
100.00	6.40	9.01#
0.00	0.00	0.00

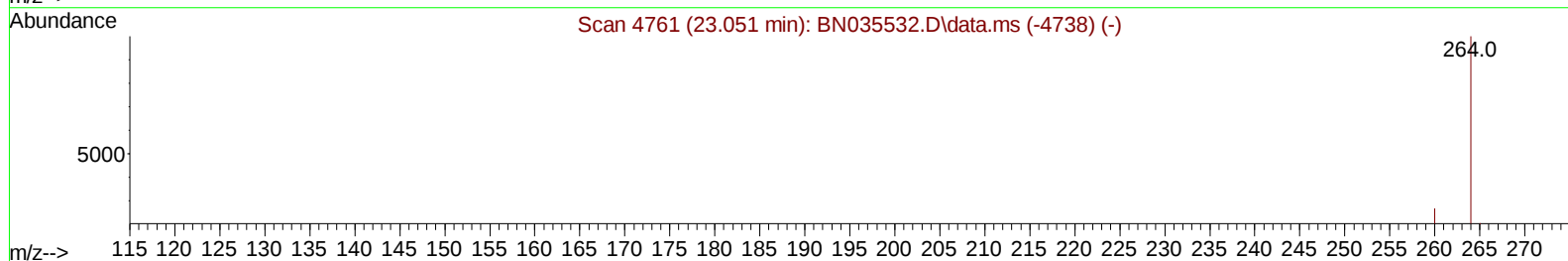
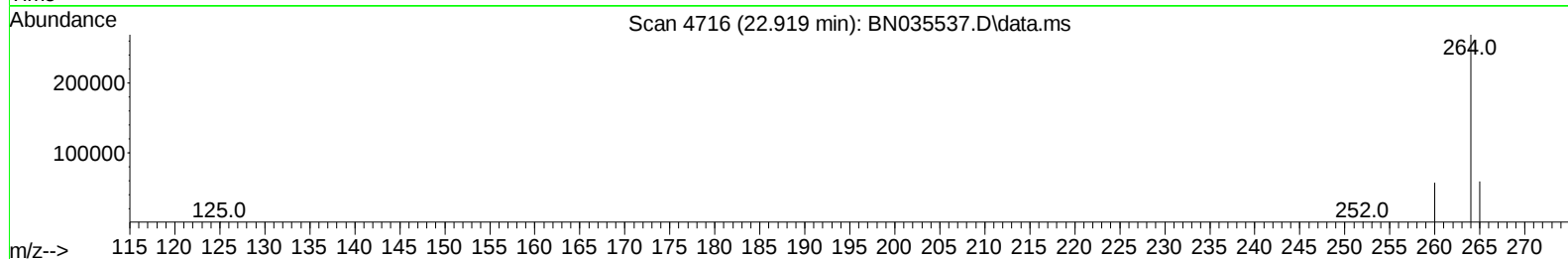
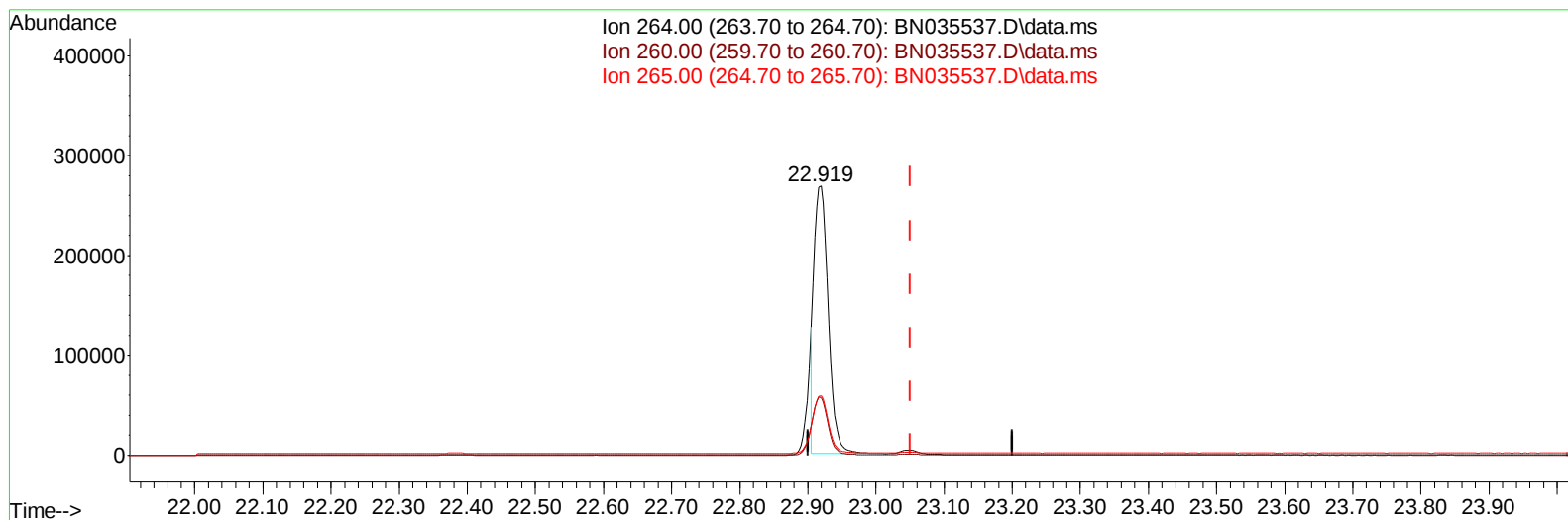
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ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
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TIC: BN035537.D\data.ms

(23) Perylene-d12 (I)

22.919min (-0.131) 0.40 ng/u1

response 388947

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	26.20	21.33
265.00	75.50	21.95#
0.00	0.00	0.00

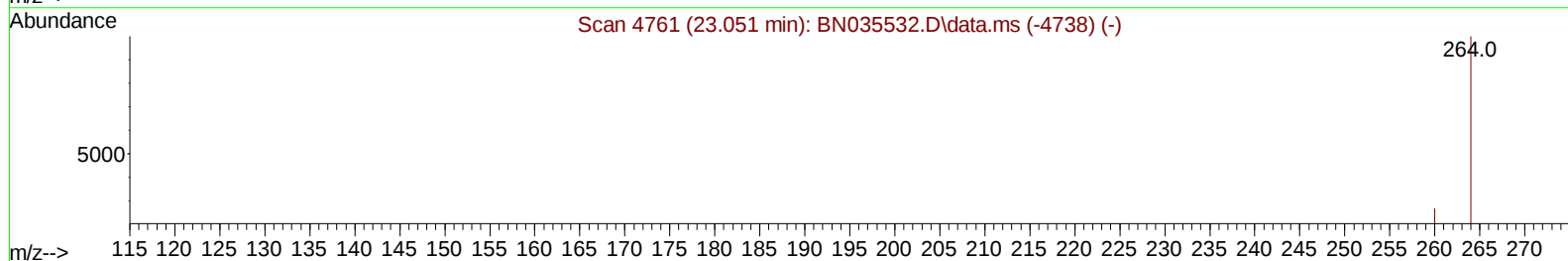
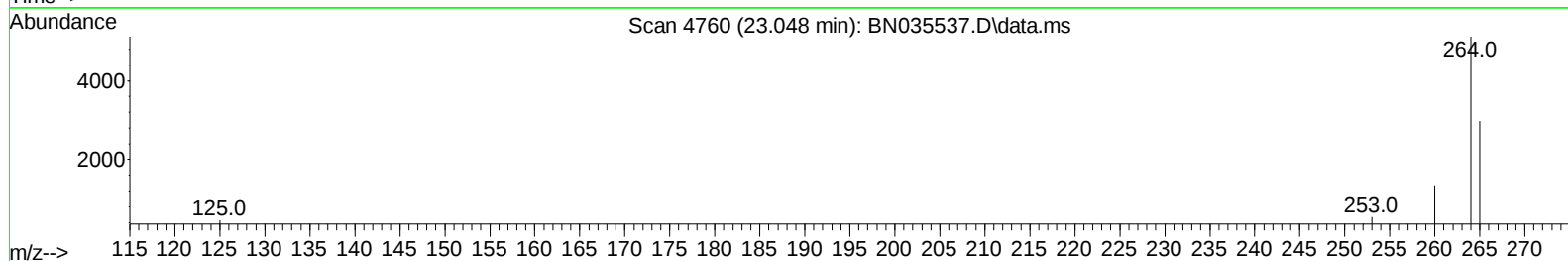
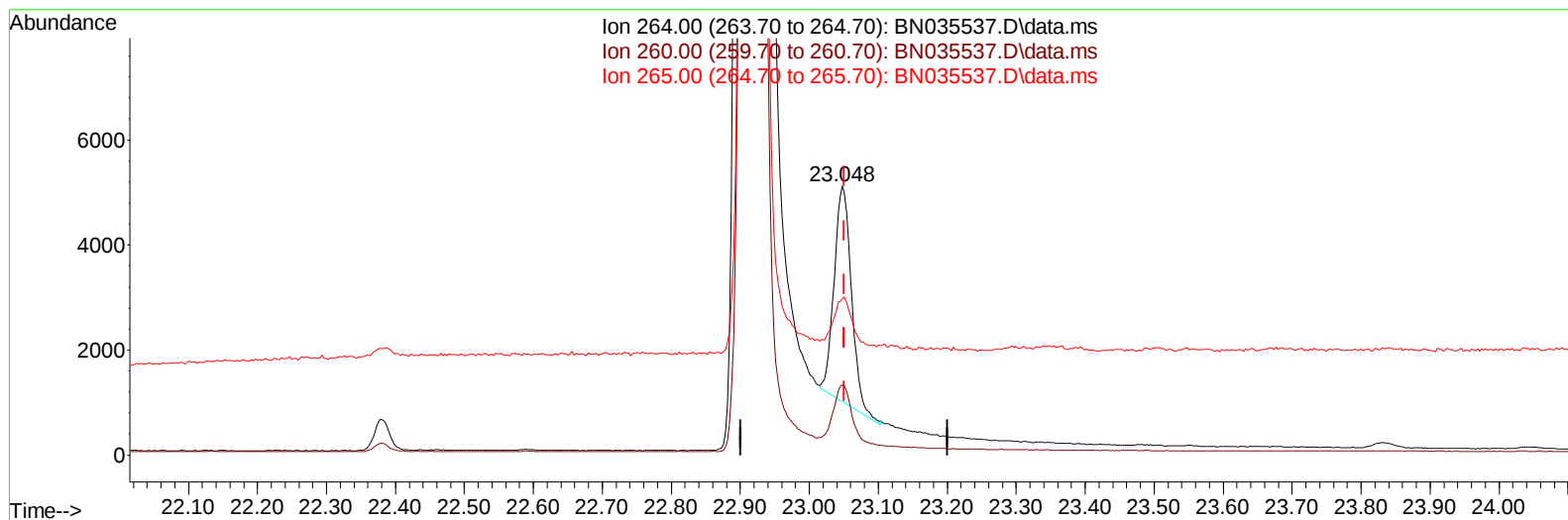
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
Response via : Initial Calibration

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



TIC: BN035537.D\data.ms

(23) Perylene-d12 (I)

23.048min (-0.003) 0.40 ng/ul m

response 7104

Ion	Exp%	Act%
264.00	100.00	100.00
260.00	26.20	26.13
265.00	75.50	58.09#
0.00	0.00	0.00

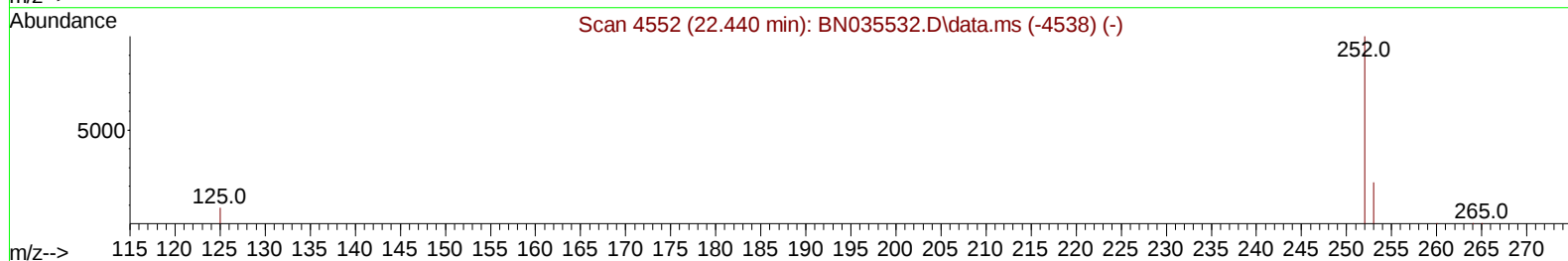
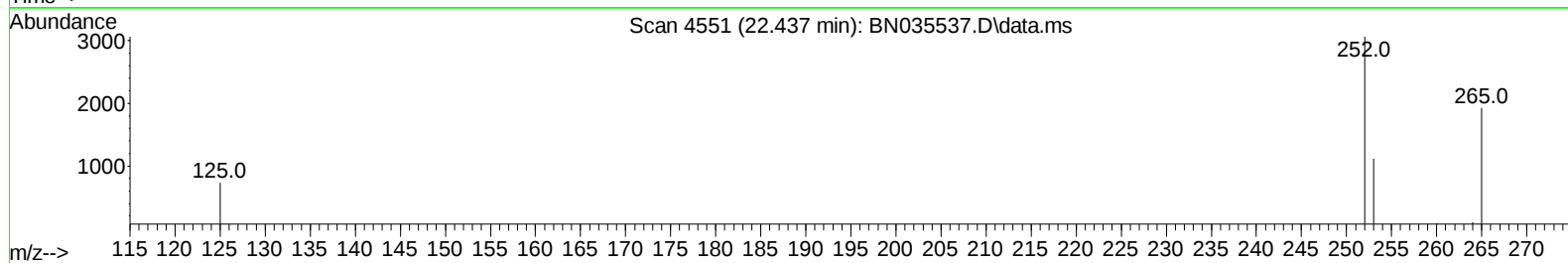
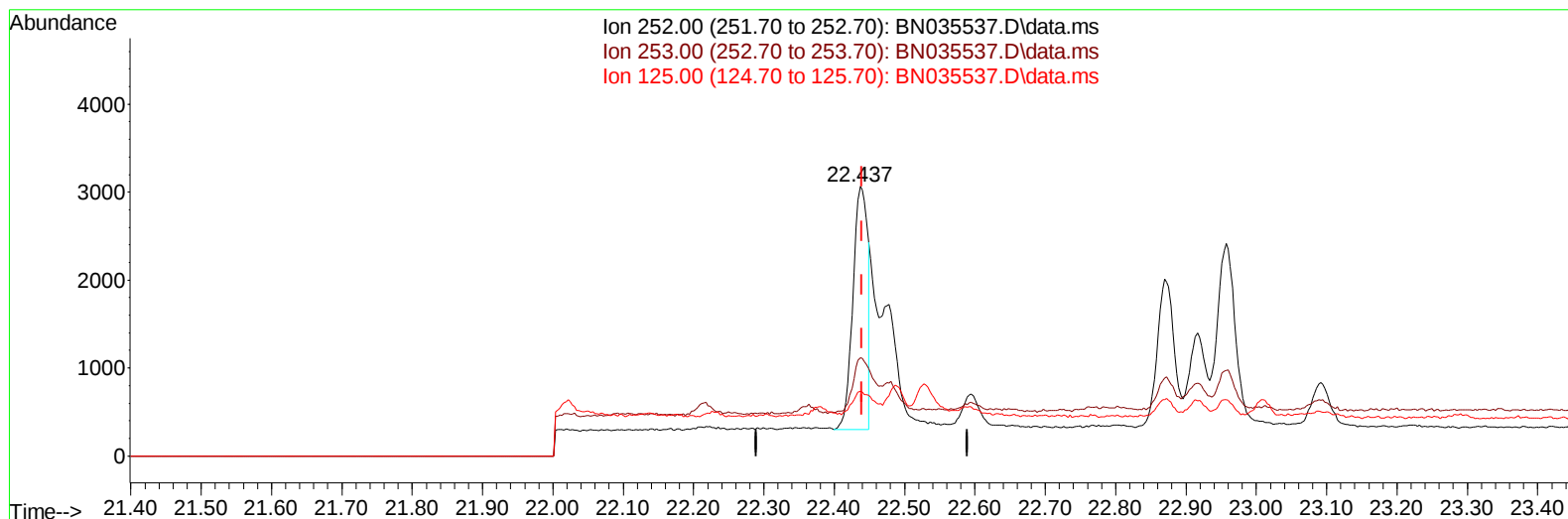
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
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TIC: BN035537.D\data.ms

(24) Benzo(b)fluoranthene

22.437min (-0.003) 0.17 ng/u1

response 3969

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.00	36.49
125.00	9.70	23.92#
0.00	0.00	0.00

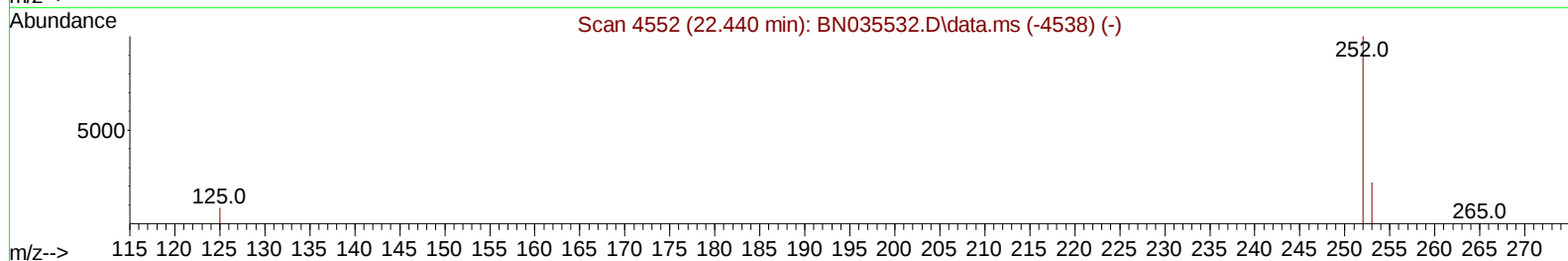
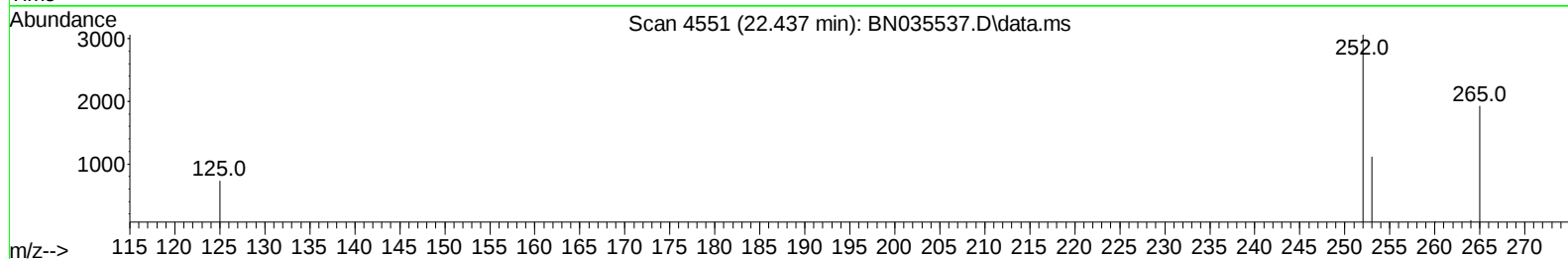
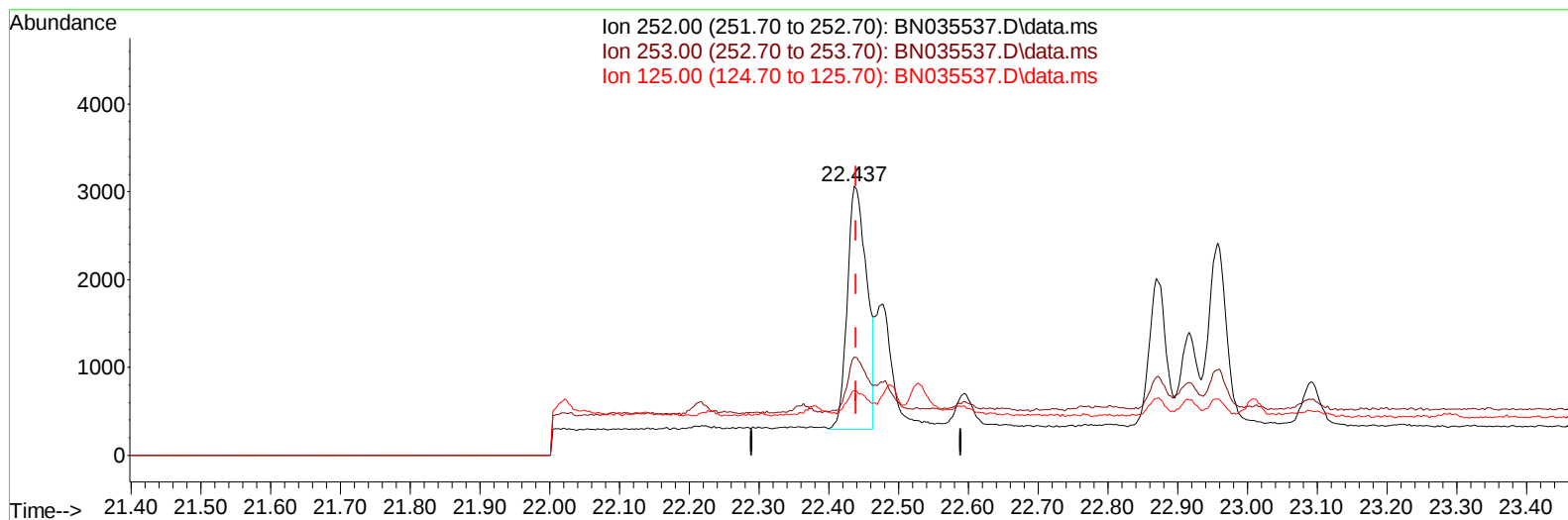
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
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Reviewed By :Yogesh Patel 12/12/2024
Supervised By :mohammad ahmed 12/12/2024



TIC: BN035537.D\data.ms

(24) Benzo(b)fluoranthene

22.437min (-0.003) 0.23 ng/u1 m

response 5374

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.00	36.49
125.00	9.70	23.92#
0.00	0.00	0.00

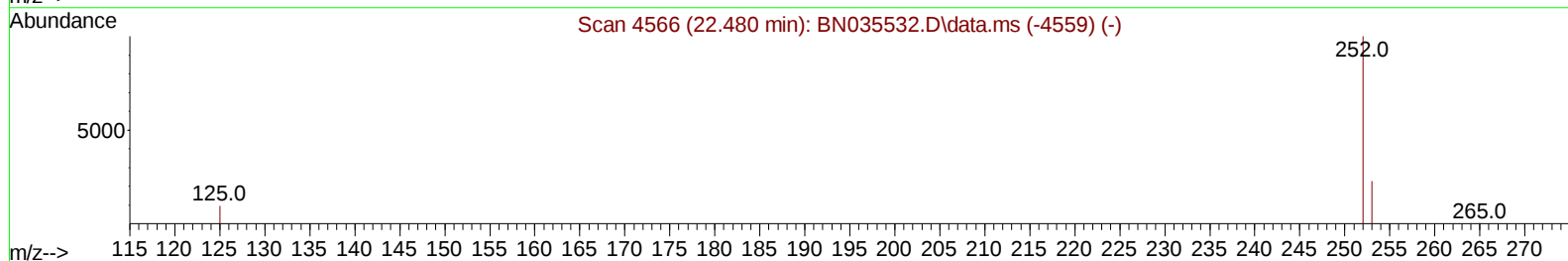
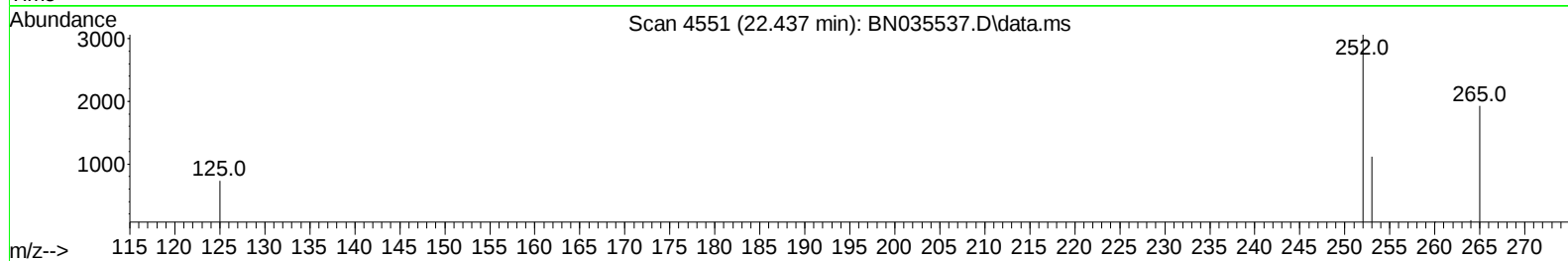
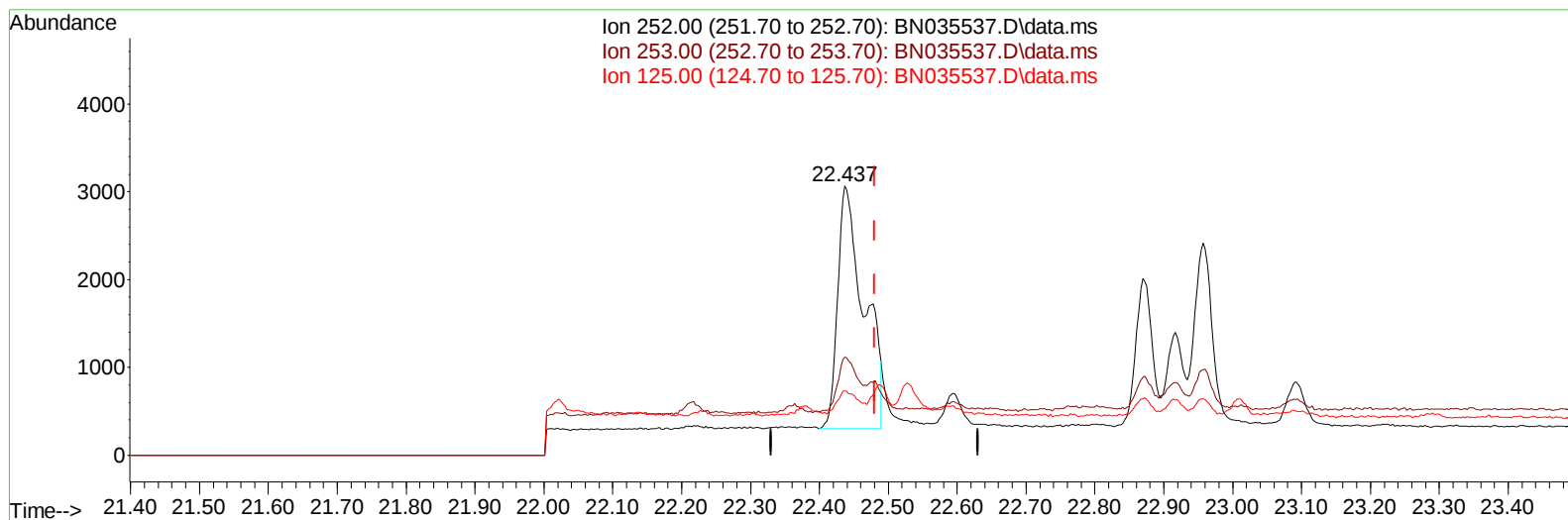
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
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Reviewed By :Yogesh Patel 12/12/2024
Supervised By :mohammad ahmed 12/12/2024



TIC: BN035537.D\data.ms

(25) Benzo(k)fluoranthene

22.437min (-0.044) 0.30 ng/u1

response 7263

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.20	36.49#
125.00	10.70	23.92#
0.00	0.00	0.00

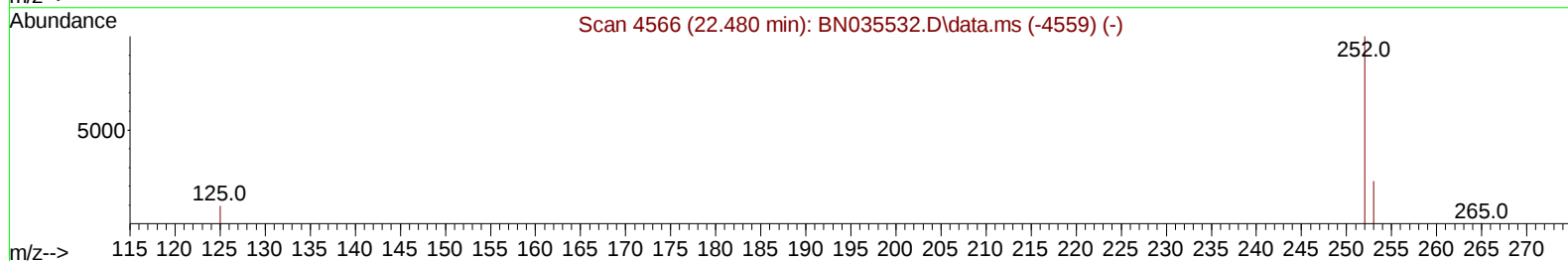
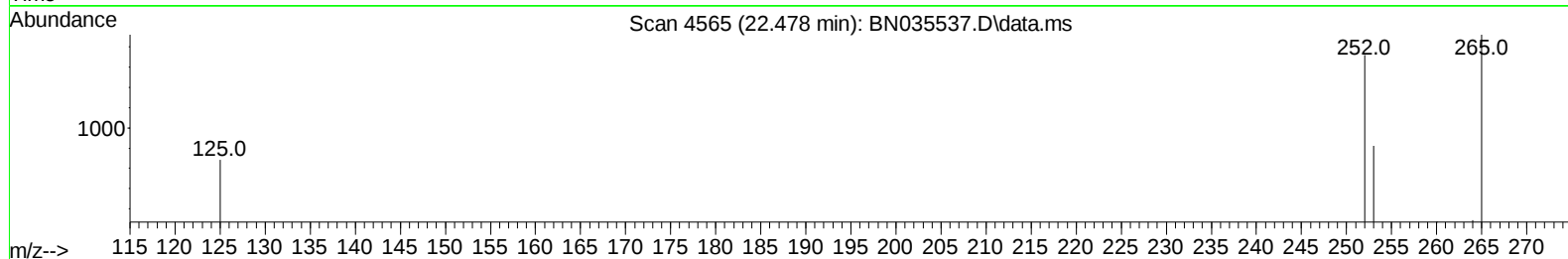
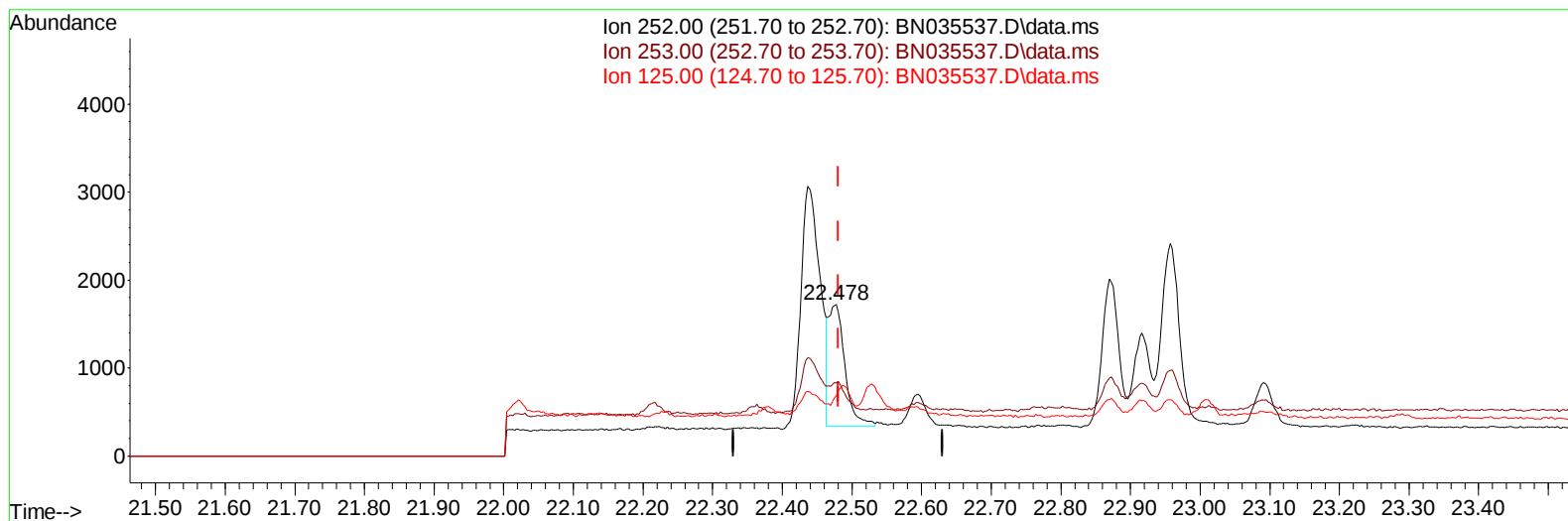
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

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



TIC: BN035537.D\data.ms

(25) Benzo(k)fluoranthene

22.478min (-0.003) 0.09 ng/u1 m

response 2273

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	27.20	47.91#
125.00	10.70	39.72#
0.00	0.00	0.00

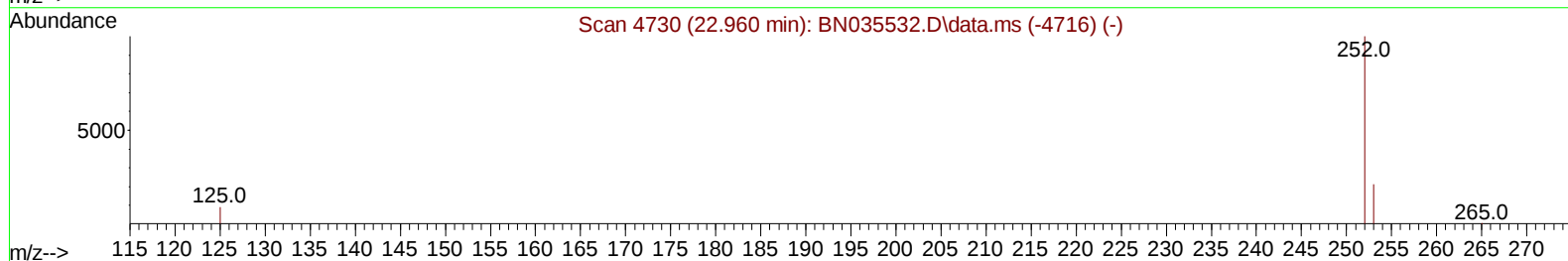
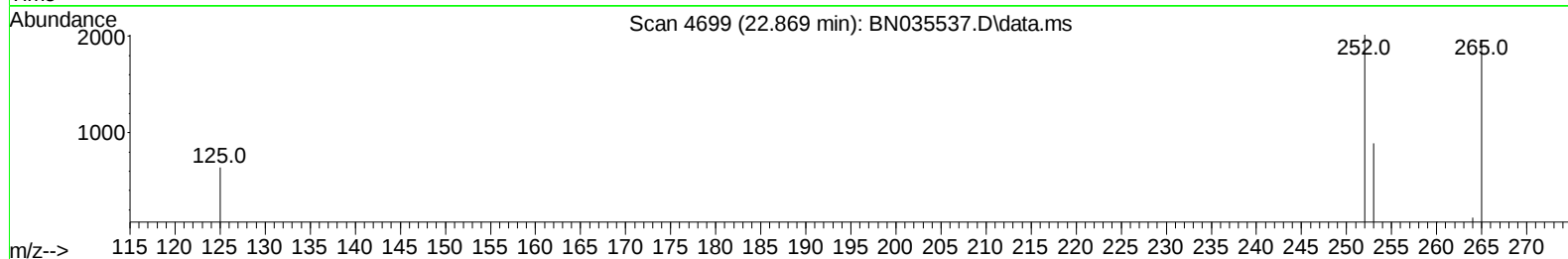
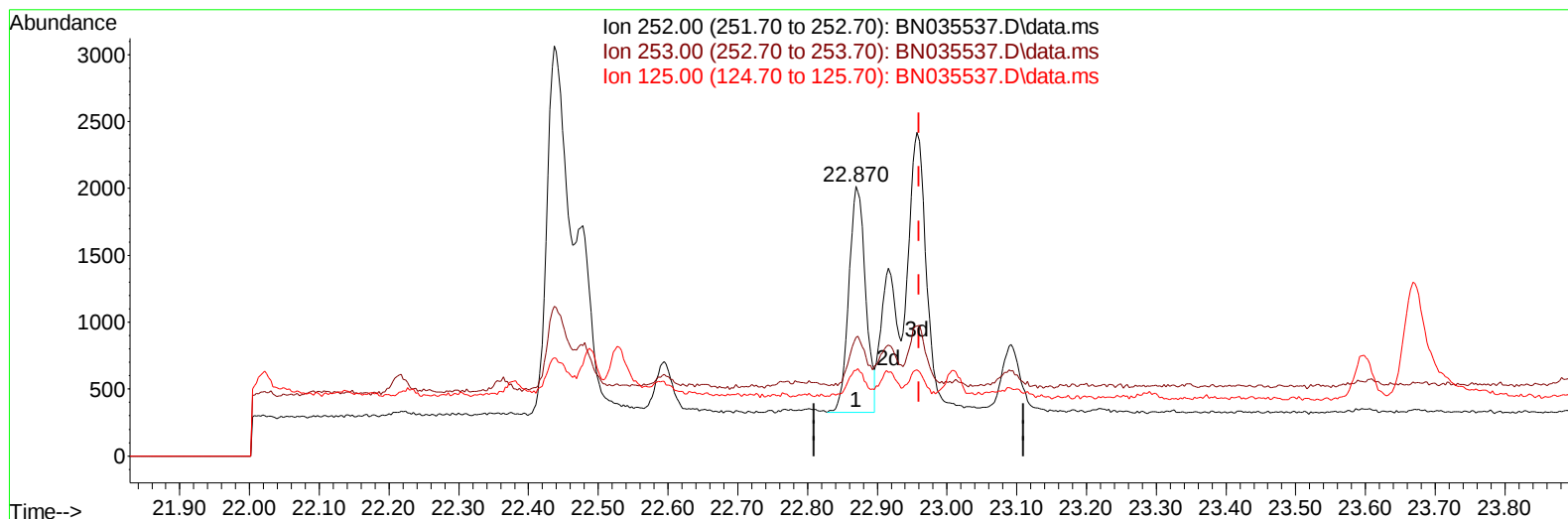
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

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



TIC: BN035537.D\data.ms

(26) Benzo(a)pyrene (C)

22.869min (-0.090) 0.13 ng/u1

response 2823

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.60	44.04#
125.00	11.80	31.78#
0.00	0.00	0.00

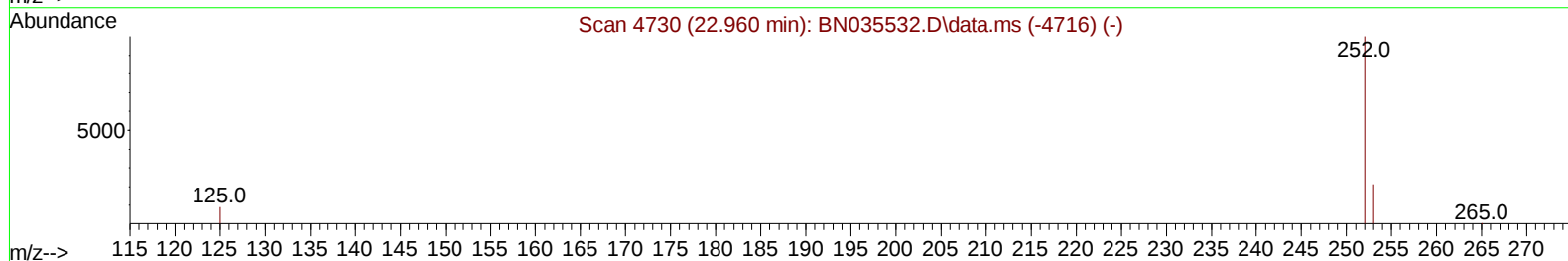
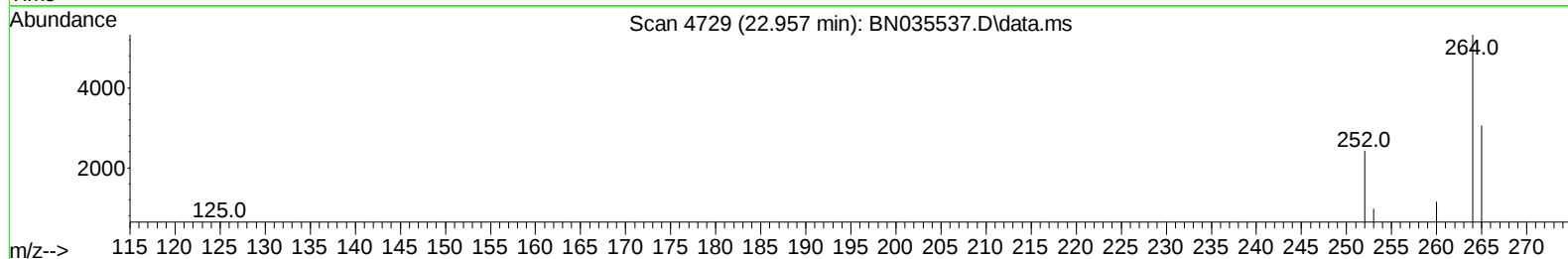
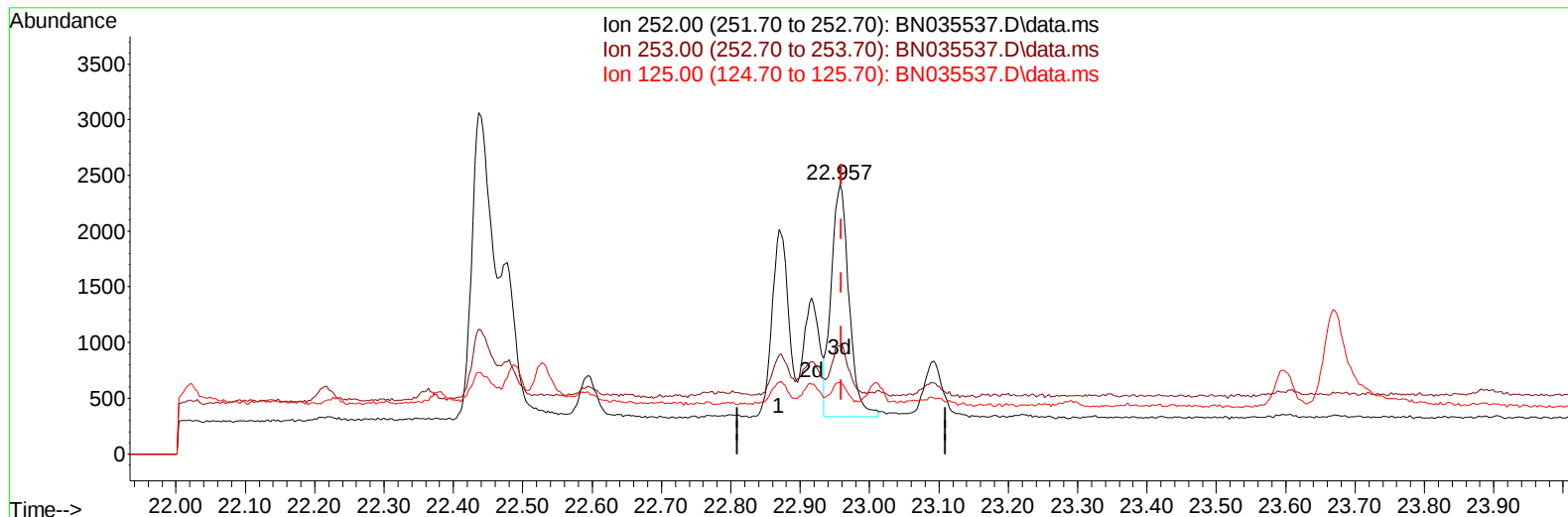
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
Response via : Initial Calibration

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



TIC: BN035537.D\data.ms

(26) Benzo(a)pyrene (C)

22.957min (-0.003) 0.17 ng/u1 m

response 3717

Ion	Exp%	Act%
252.00	100.00	100.00
253.00	28.60	40.10#
125.00	11.80	26.58#
0.00	0.00	0.00

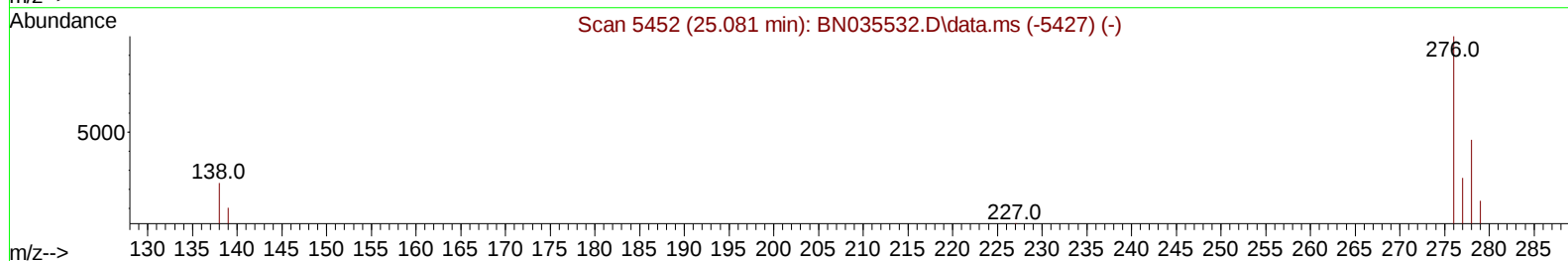
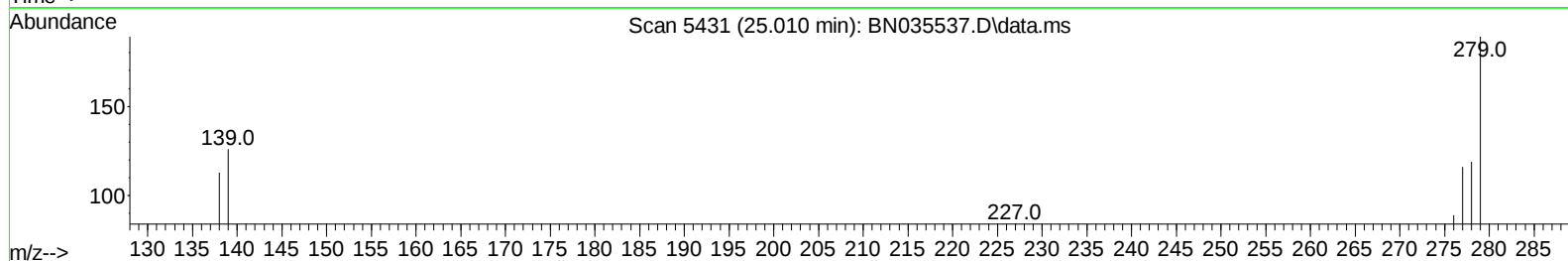
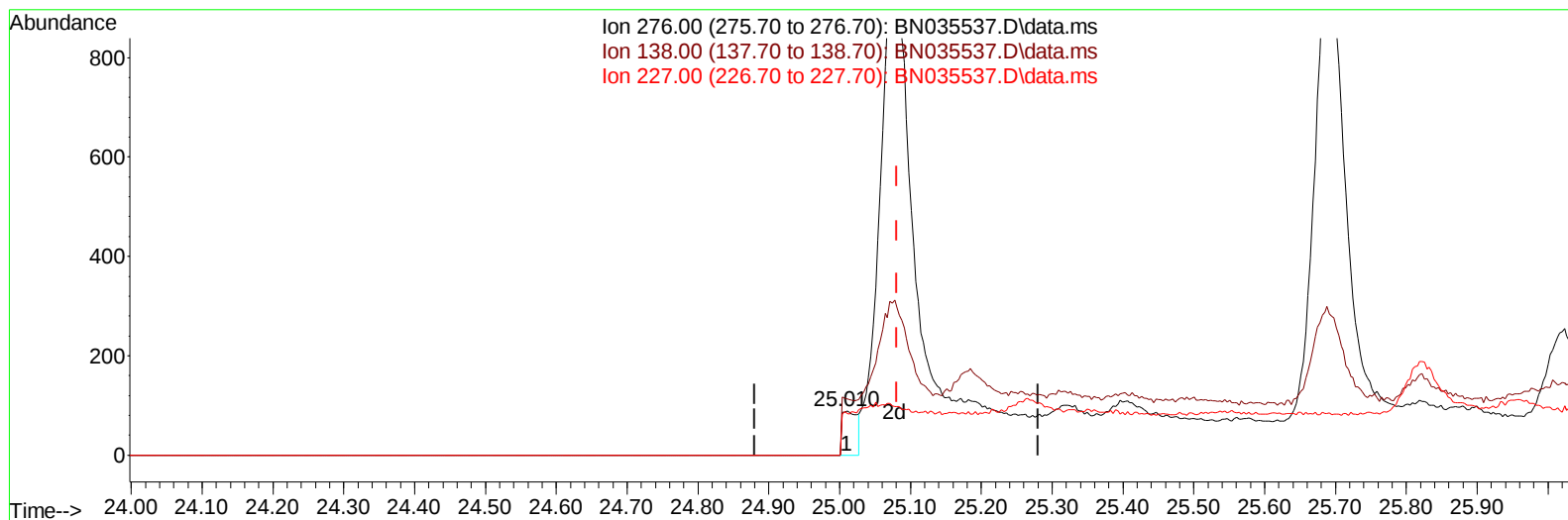
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

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Reviewed By :Yogesh Patel 12/12/2024
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TIC: BN035537.D\data.ms

(27) Indeno(1,2,3-cd)pyrene

25.010min (-0.070) 0.00 ng/u1

response 132

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	17.30	0.00#
227.00	0.30	0.00#
0.00	0.00	0.00

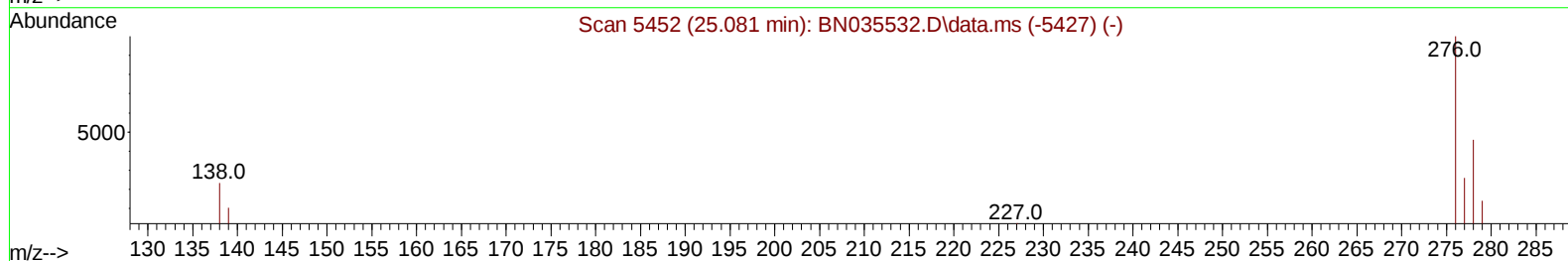
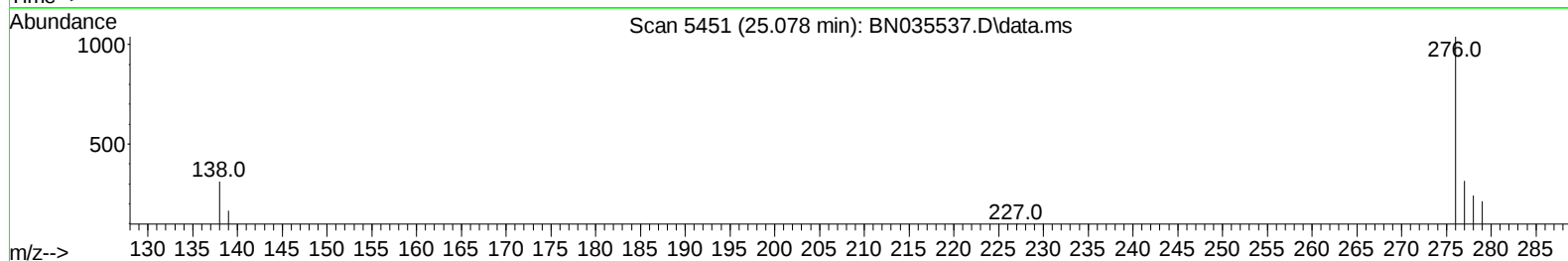
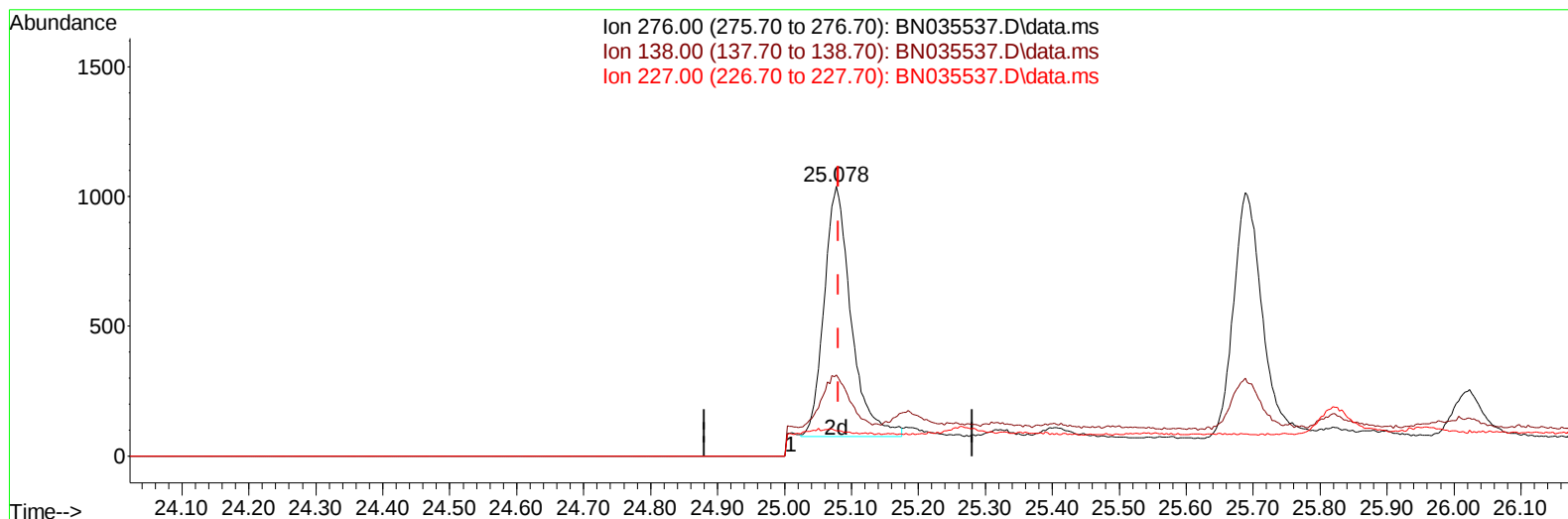
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN111624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 16:10:57 2024
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Reviewed By :Yogesh Patel 12/12/2024
Supervised By :mohammad ahmed 12/12/2024



TIC: BN035537.D\data.ms

(27) Indeno(1,2,3-cd)pyrene

25.078min (-0.003) 0.09 ng/u1 m

response 2688

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	17.30	0.00#
227.00	0.30	0.00#
0.00	0.00	0.00

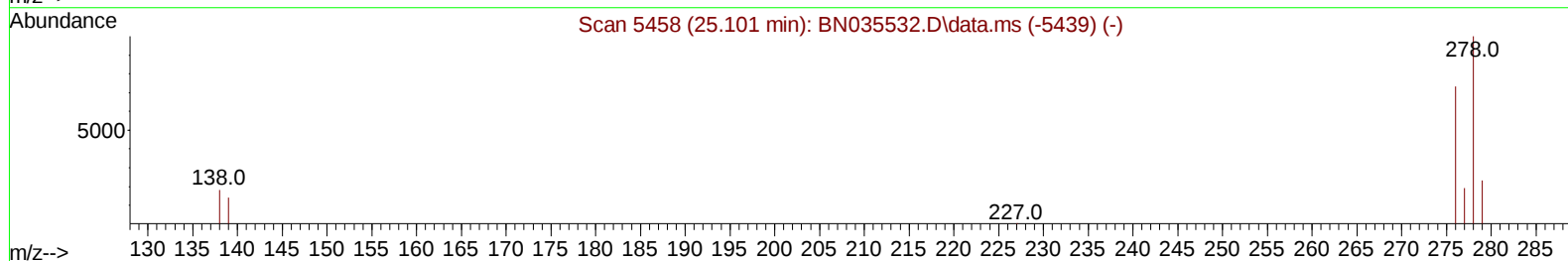
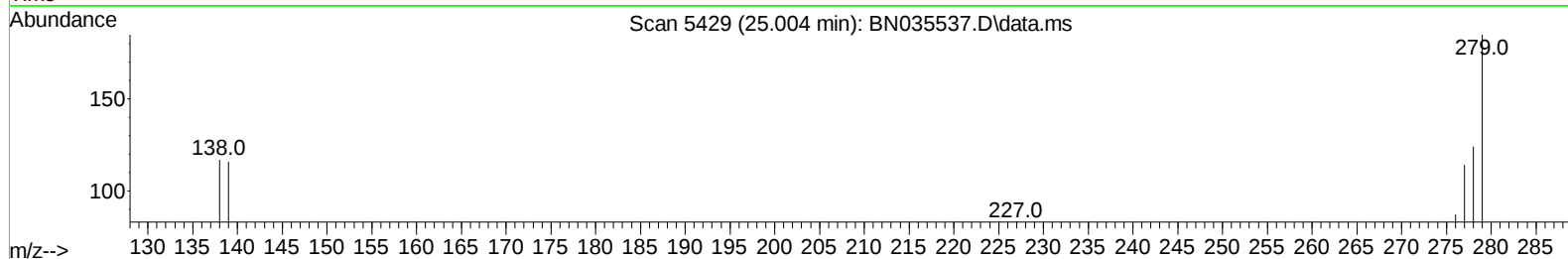
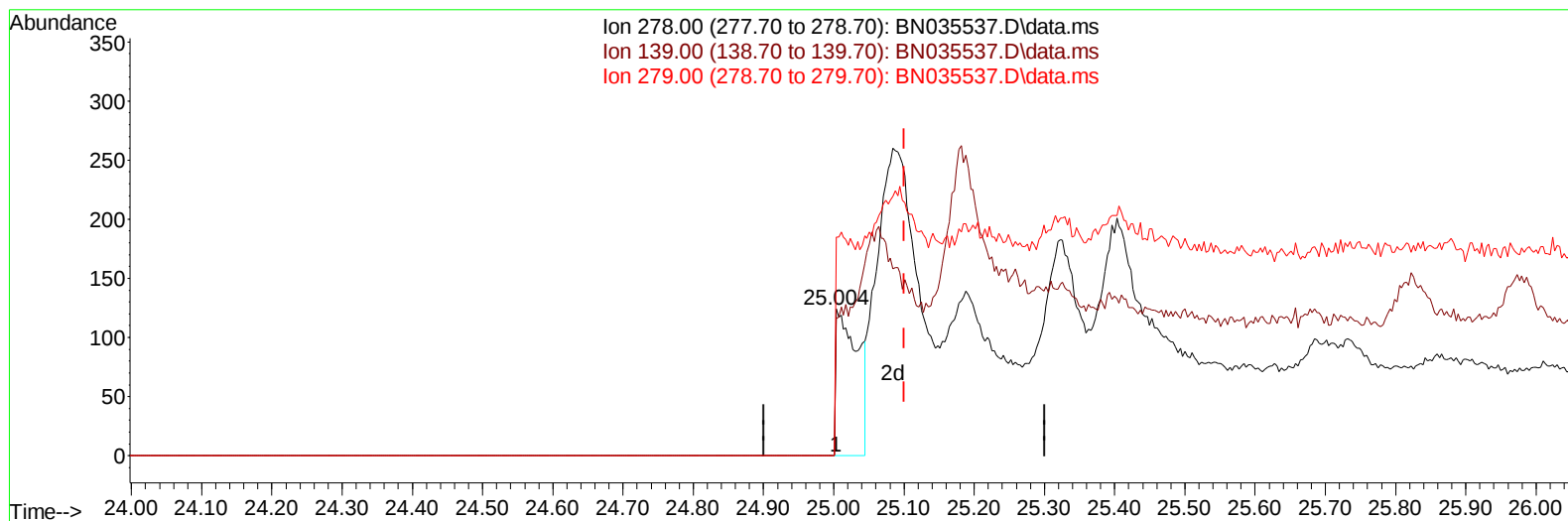
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

Quant Time: Dec 10 22:04:52 2024
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QLast Update : Tue Dec 10 16:10:57 2024
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Reviewed By :Yogesh Patel 12/12/2024
Supervised By :mohammad ahmed 12/12/2024



TIC: BN035537.D\data.ms

(28) Dibenzo(a,h)anthracene

25.004min (-0.097) 0.01 ng/u1

response 262

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	13.40	93.55#
279.00	28.50	149.19#
0.00	0.00	0.00

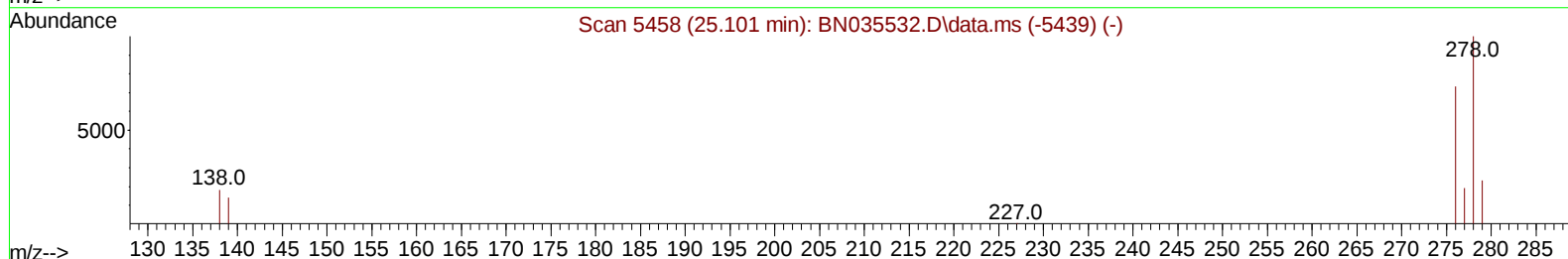
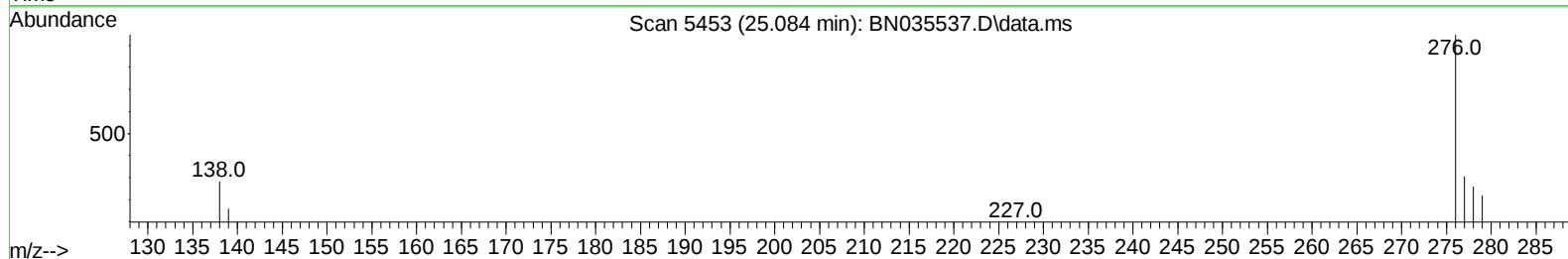
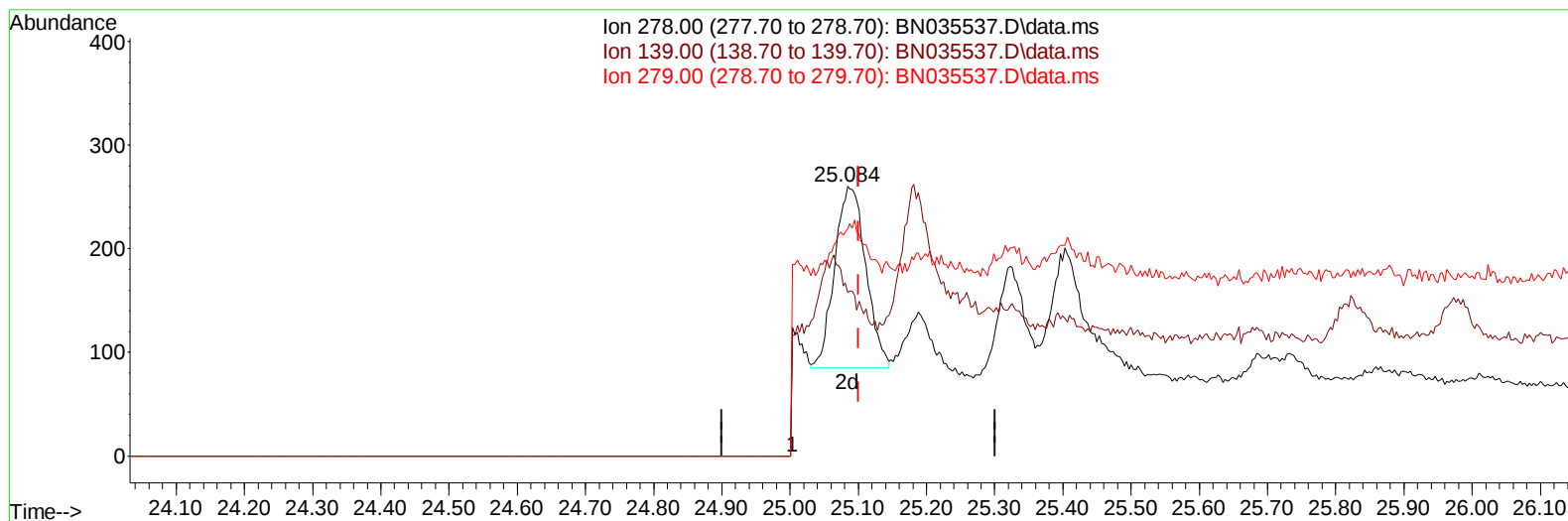
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

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

Quant Time: Dec 10 22:04:52 2024
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Response via : Initial Calibration



TIC: BN035537.D\data.ms

(28) Dibenzo(a,h)anthracene

25.084min (-0.017) 0.02 ng/u1 m

response 556

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	13.40	60.77#
279.00	28.50	84.23#
0.00	0.00	0.00

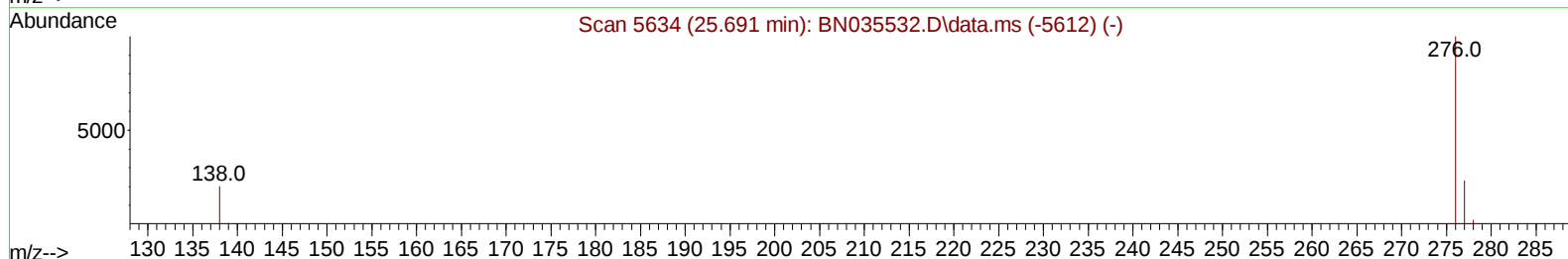
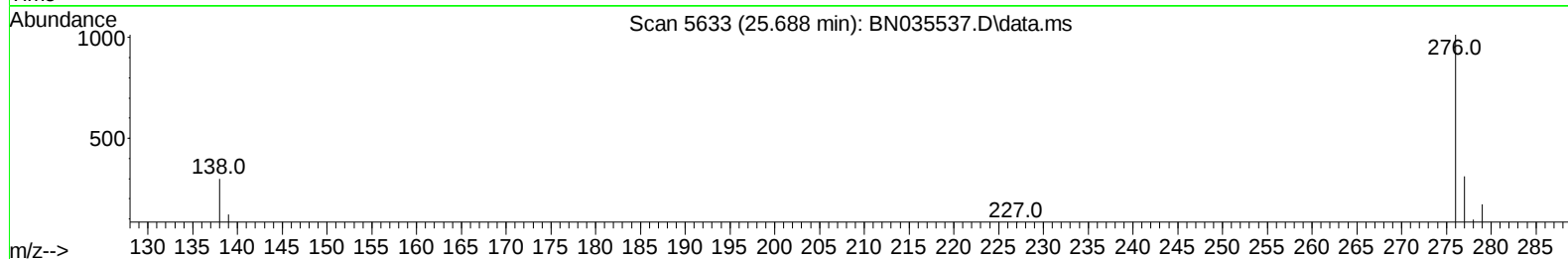
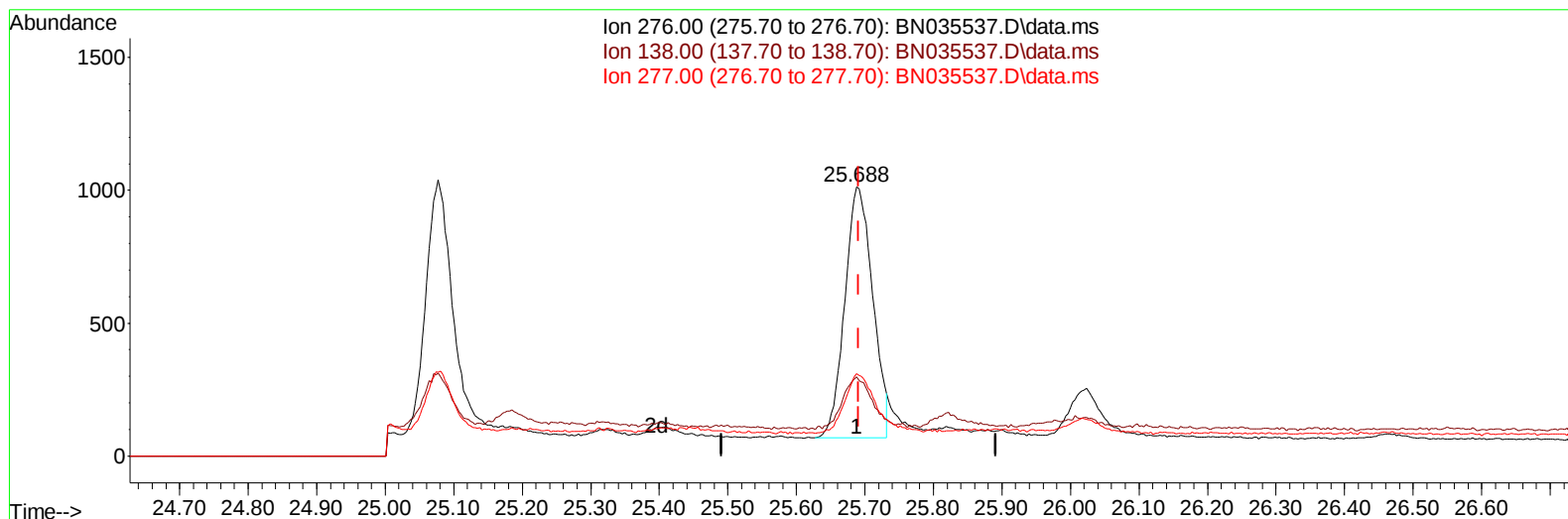
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
 Data File : BN035537.D
 Acq On : 10 Dec 2024 18:30
 Operator : RC/JU
 Sample : P5066-17
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 E28N5

Manual IntegrationsAPPROVED

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



TIC: BN035537.D\data.ms

(29) Benzo(g,h,i)perylene

25.688min (-0.003) 0.12 ng/u1

response 2670

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	16.30	29.49#
277.00	25.60	30.67
0.00	0.00	0.00

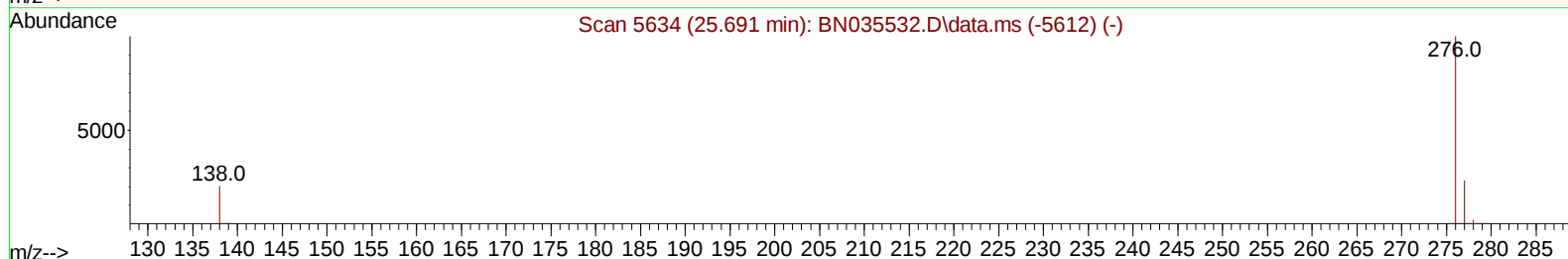
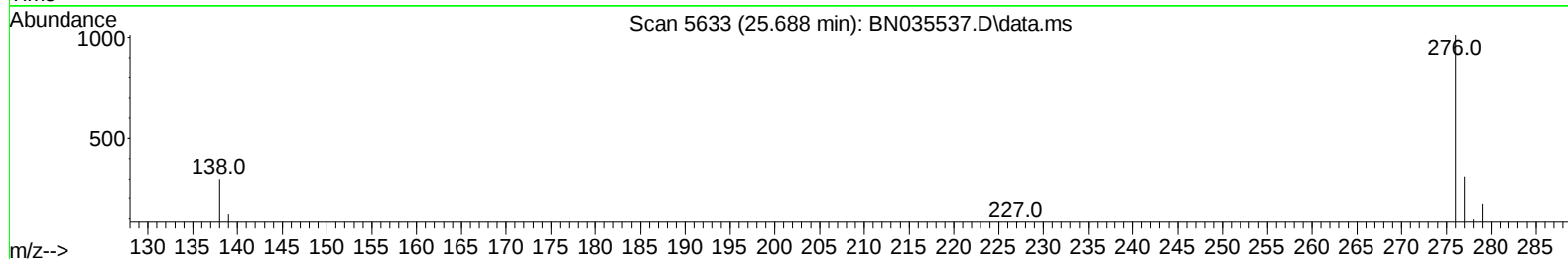
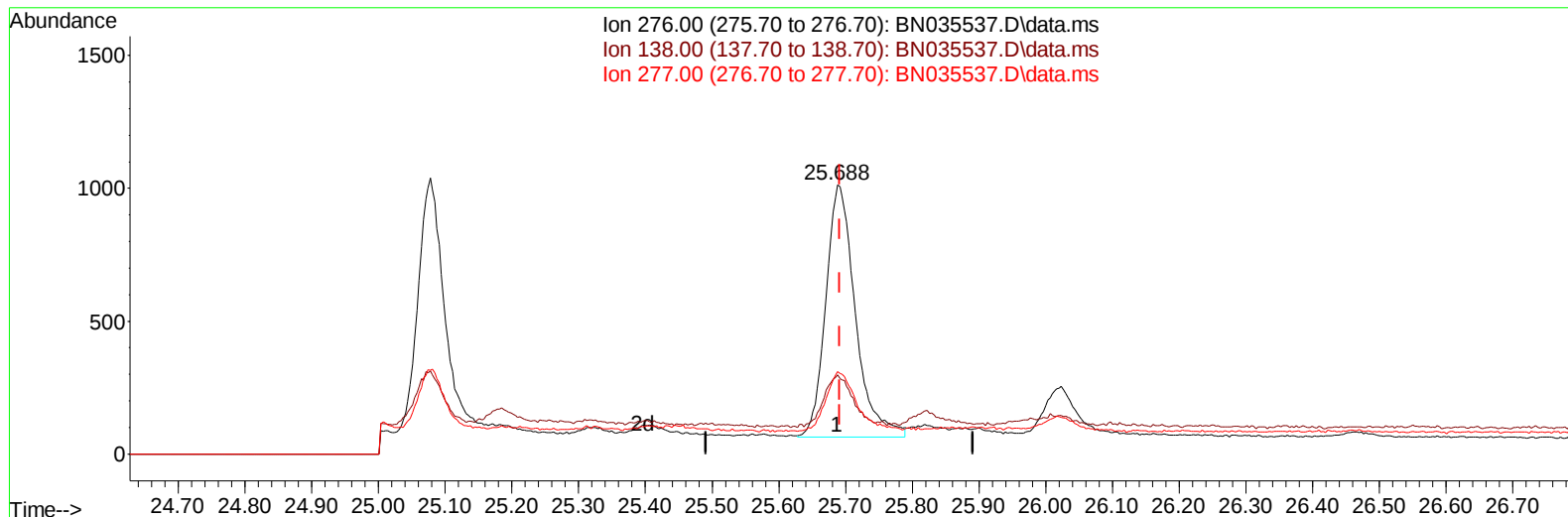
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
Data File : BN035537.D
Acq On : 10 Dec 2024 18:30
Operator : RC/JU
Sample : P5066-17
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
E28N5

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 12/12/2024



TIC: BN035537.D\data.ms

(29) Benzo(g,h,i)perylene

25.688min (-0.003) 0.13 ng/u1 m

response 2927

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	16.30	29.49#
277.00	25.60	30.67
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121024\
 Data File : BN035537.D
 Acq On : 10 Dec 2024 18:30
 Operator : RC/JU
 Sample : P5066-17
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 E28N5

Manual IntegrationsAPPROVED

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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	3276	0.400	ng/ul	0.00
4) Naphthalene-d8	10.037	136	9454	0.400	ng/ul	0.00
9) Acenaphthene-d10	13.949	164	6298	0.400	ng/ul	0.00
13) Phenanthrene-d10	16.717	188	13273m	0.400	ng/ul	0.00
17) Chrysene-d12	20.958	240	8460	0.400	ng/ul	# 0.00
23) Perylene-d12	23.048	264	7104m	0.400	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	2.959	96	17602	5.879	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.637	152	4139	0.299	ng/ul	0.00
18) Fluoranthene-d10	18.768	212	7558	0.324	ng/ul	0.00
Target Compounds						
						Qvalue
5) Naphthalene	10.086	128	963m	0.040	ng/ul	
7) 2-Methylnaphthalene	11.714	142	654	0.040	ng/ul	96
8) 1-Methylnaphthalene	11.939	142	446	0.027	ng/ul	96
15) Phenanthrene	16.755	178	3720	0.106	ng/ul	96
19) Fluoranthene	18.800	202	8370	0.284	ng/ul#	95
20) Pyrene	19.167	202	7569m	0.247	ng/ul	
21) Benzo(a)anthracene	20.944	228	3052	0.104	ng/ul	93
22) Chrysene	20.996	228	4167	0.141	ng/ul	95
24) Benzo(b)fluoranthene	22.437	252	5374m	0.229	ng/ul	
25) Benzo(k)fluoranthene	22.478	252	2273m	0.094	ng/ul	
26) Benzo(a)pyrene	22.957	252	3717m	0.173	ng/ul	
27) Indeno(1,2,3-cd)pyrene	25.078	276	2688m	0.093	ng/ul	
28) Dibenzo(a,h)anthracene	25.084	278	556m	0.024	ng/ul	
29) Benzo(g,h,i)perylene	25.688	276	2927m	0.128	ng/ul	

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

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