

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

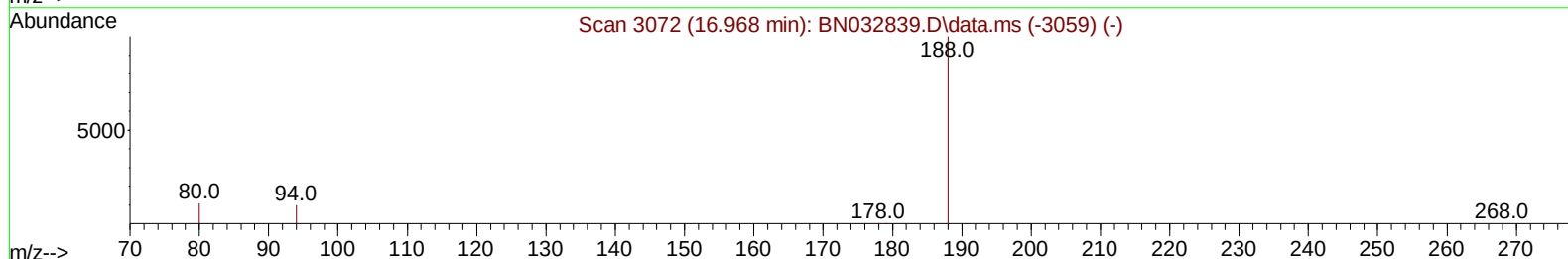
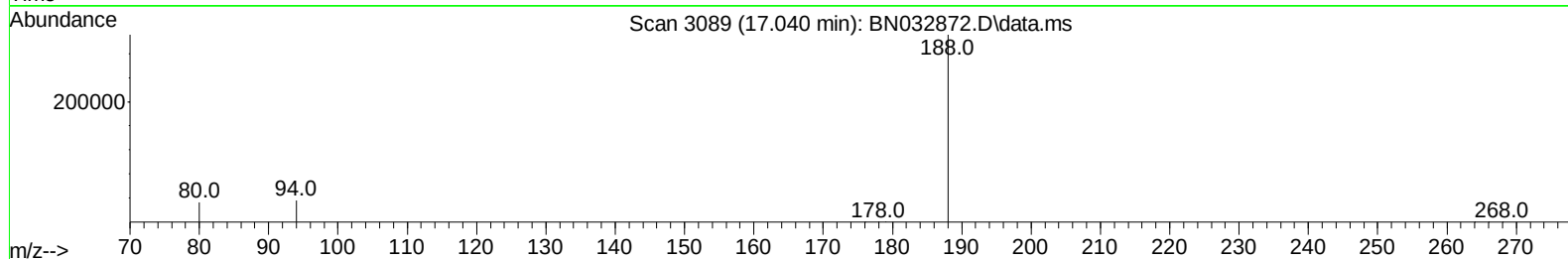
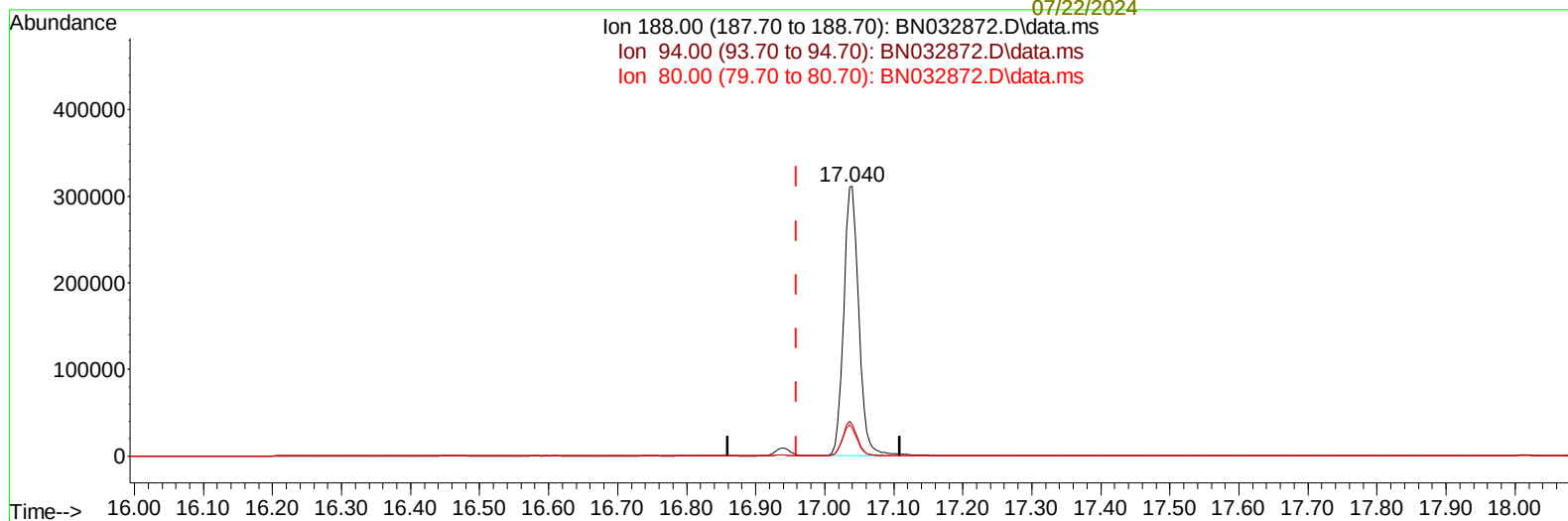
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 20 01:52:15 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024

Supervised By :mohammad  
ahmed  
07/22/2024



TIC: BN032872.D\data.ms

**(13) Phenanthrene-d10 (I)**

17.040min (+ 0.080) 0.40 ng/u1

response 467537

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 11.00  | 11.60  |
| 80.00  | 12.00  | 10.38  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
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Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

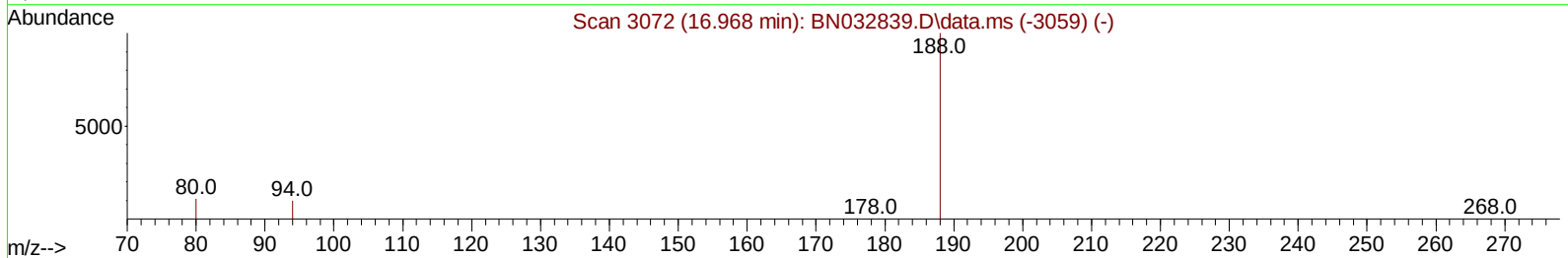
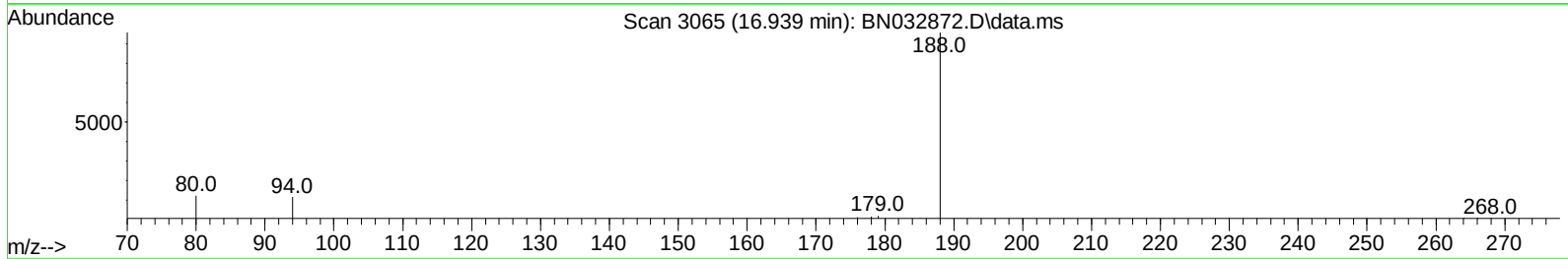
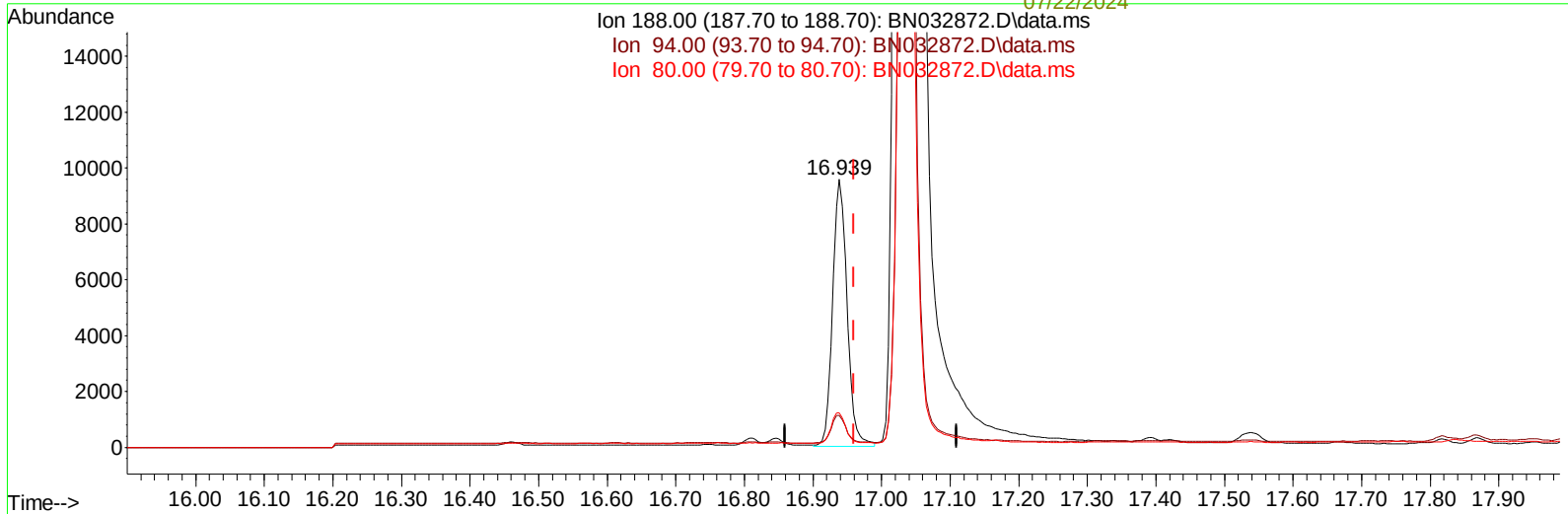
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
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ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (13) Phenanthrene-d10 (I)

16.939min (-0.021) 0.40 ng/ul m

response 13981

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 11.00  | 12.03  |
| 80.00  | 12.00  | 12.76  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

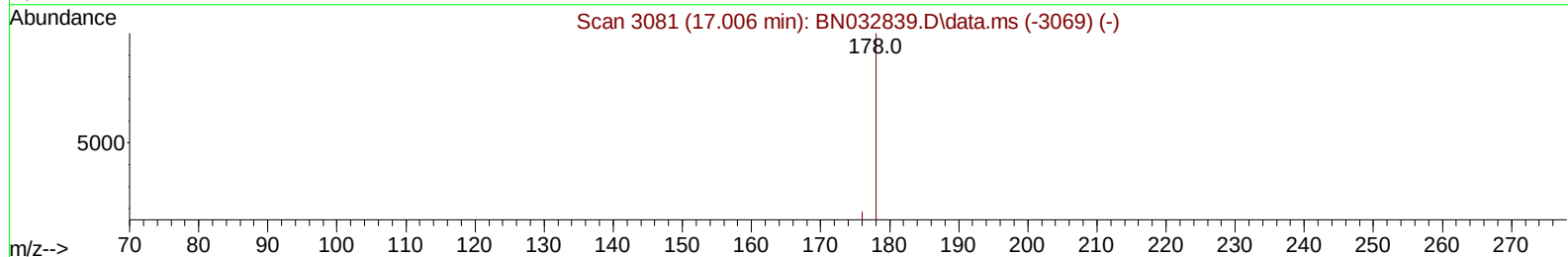
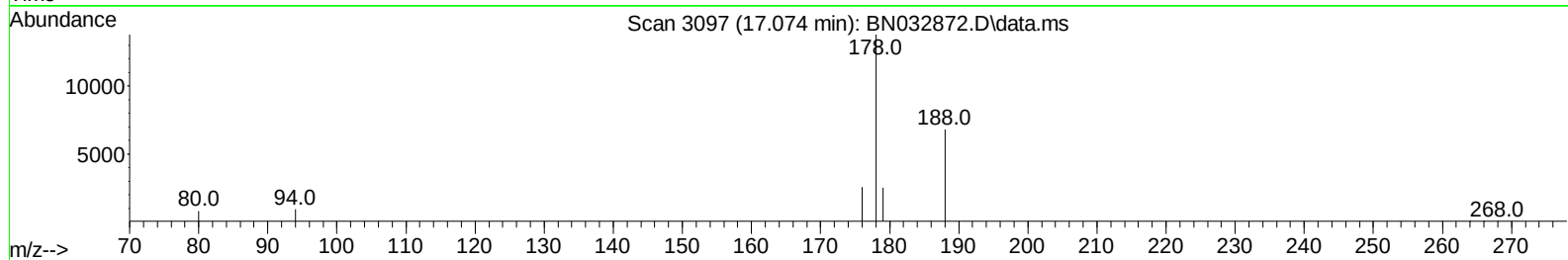
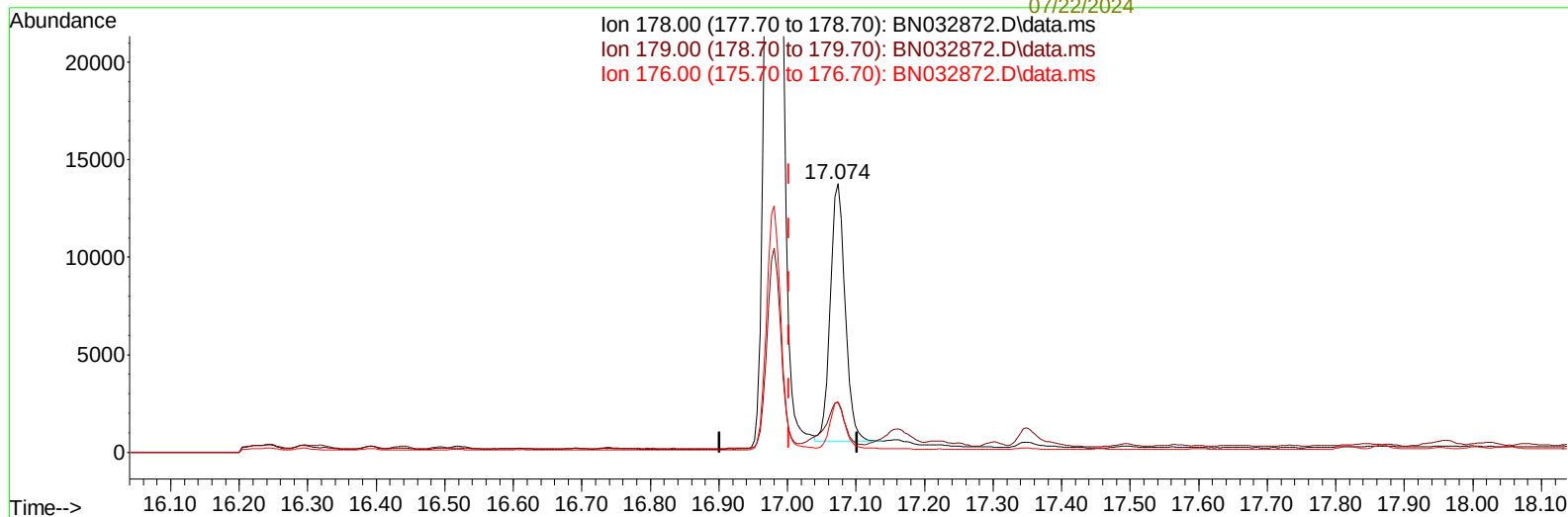
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
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QLast Update : Sat Jul 20 01:52:15 2024  
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ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (15) Phenanthrene

17.074min (+ 0.072) 0.52 ng/u1

response 19815

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 16.20  | 18.46  |
| 176.00 | 19.50  | 18.74  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

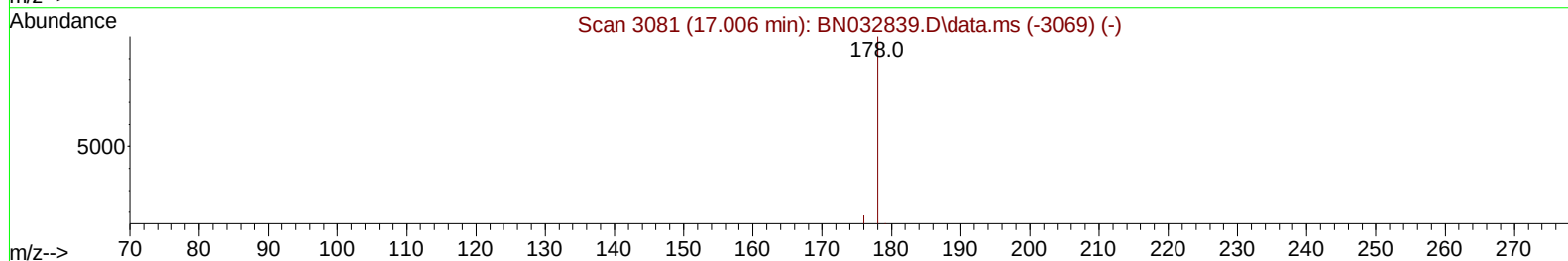
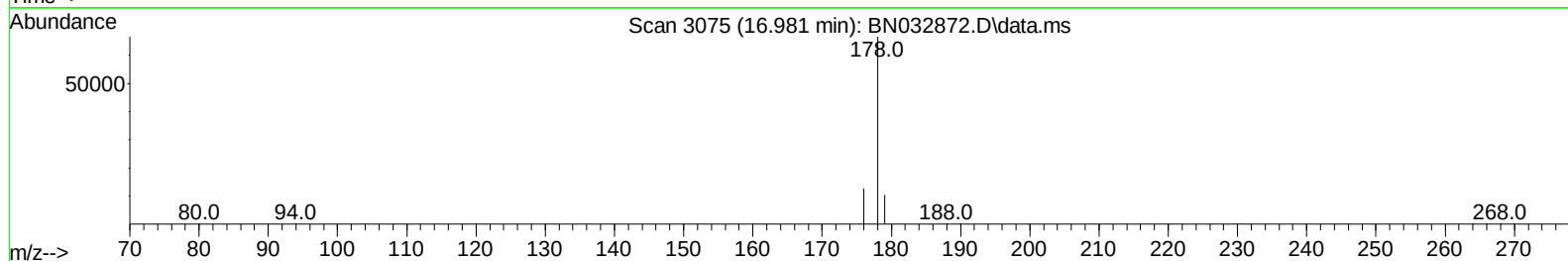
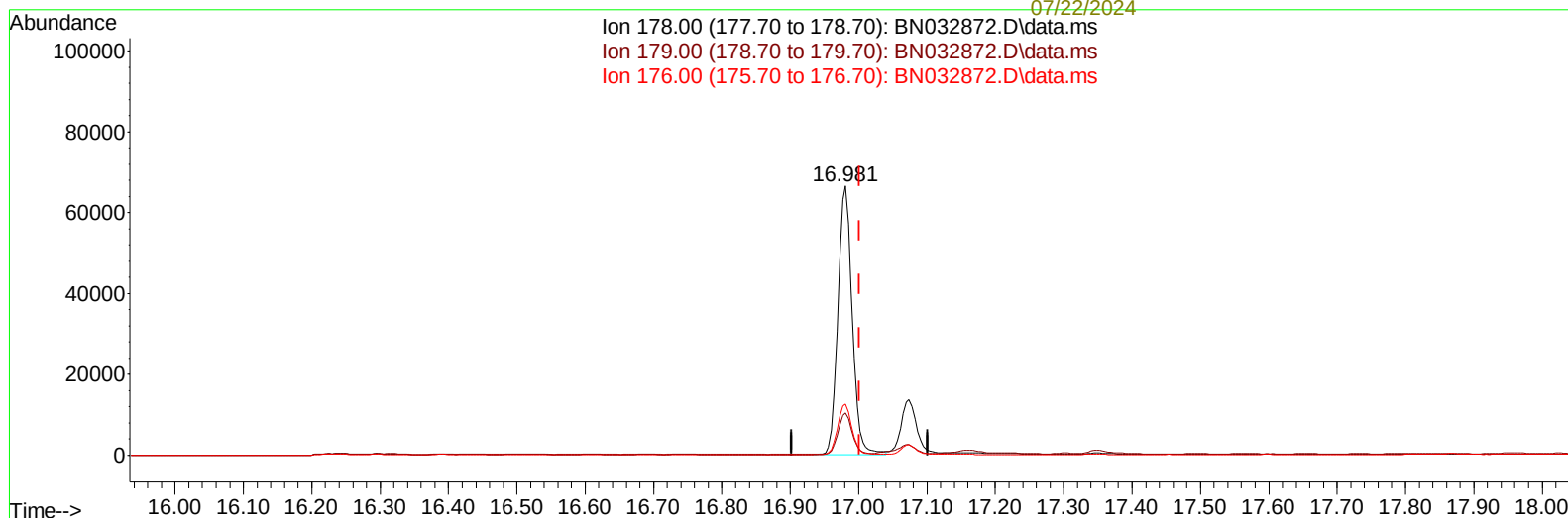
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

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QLast Update : Sat Jul 20 01:52:15 2024  
Response via : Initial Calibration

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Supervised By :mohammad ahmed 07/22/2024

Supervised By :mohammad  
ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (15) Phenanthrene

16.981min (-0.021) 2.55 ng/ul m

response 96915

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 16.20  | 15.72  |
| 176.00 | 19.50  | 19.01  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

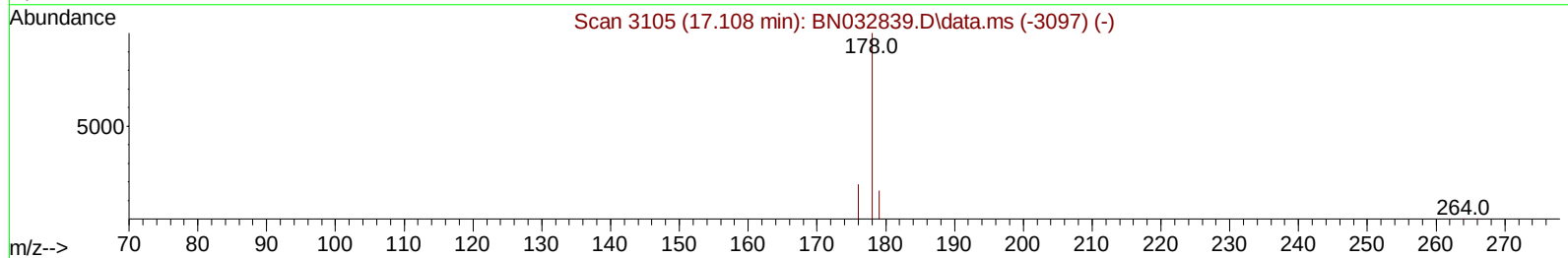
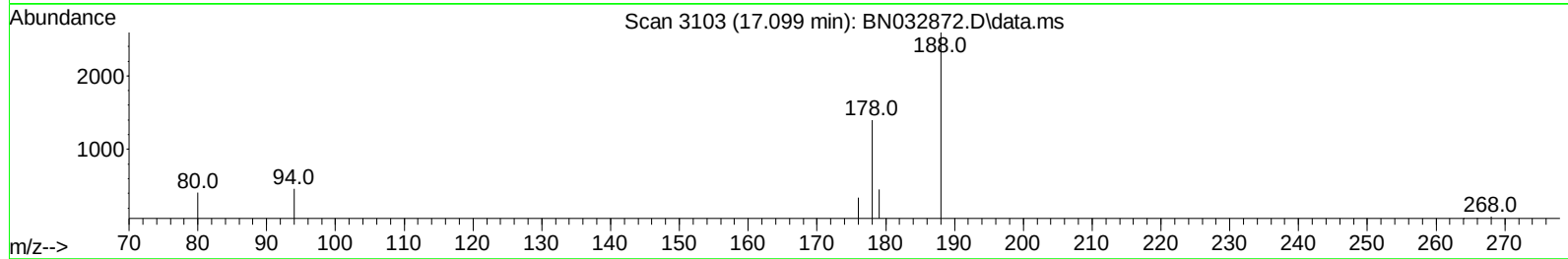
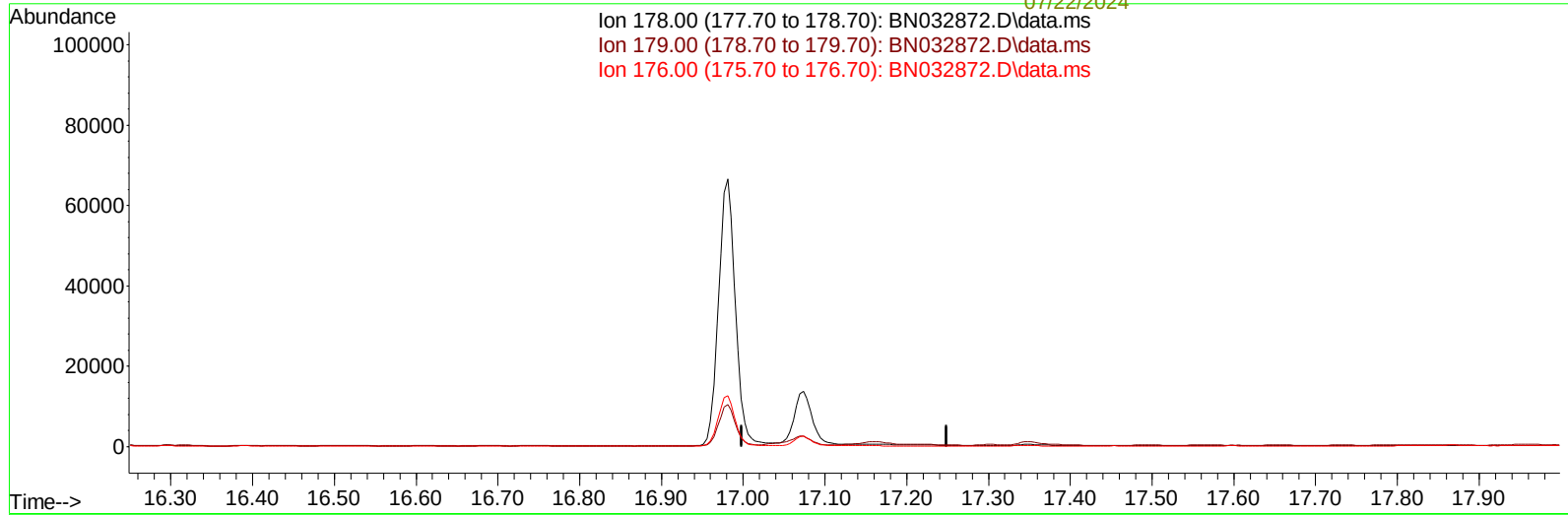
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

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ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (16) Anthracene

17.099min (-17.099) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 178.00 | 100.00 | 0.00  |
| 179.00 | 16.80  | 0.00# |
| 176.00 | 19.20  | 0.00# |
| 0.00   | 0.00   | 0.00  |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
 Data File : BN032872.D  
 Acq On : 20 Jul 2024 10:27  
 Operator : MA/JU  
 Sample : P3238-14  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

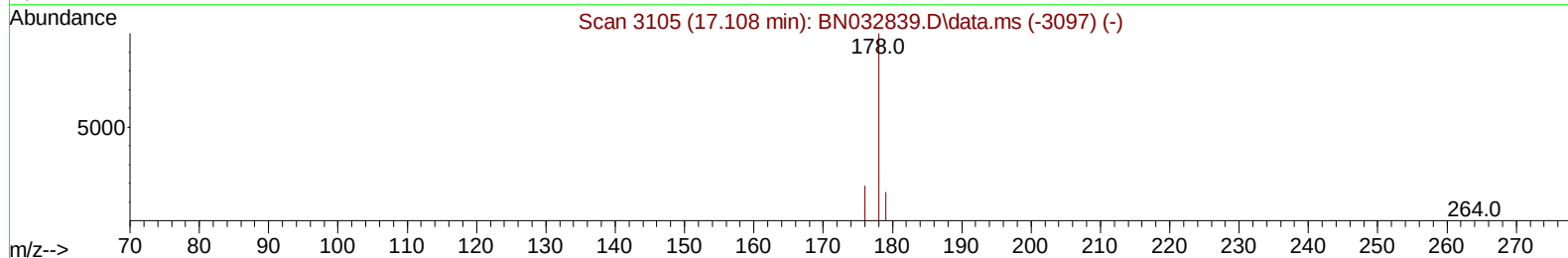
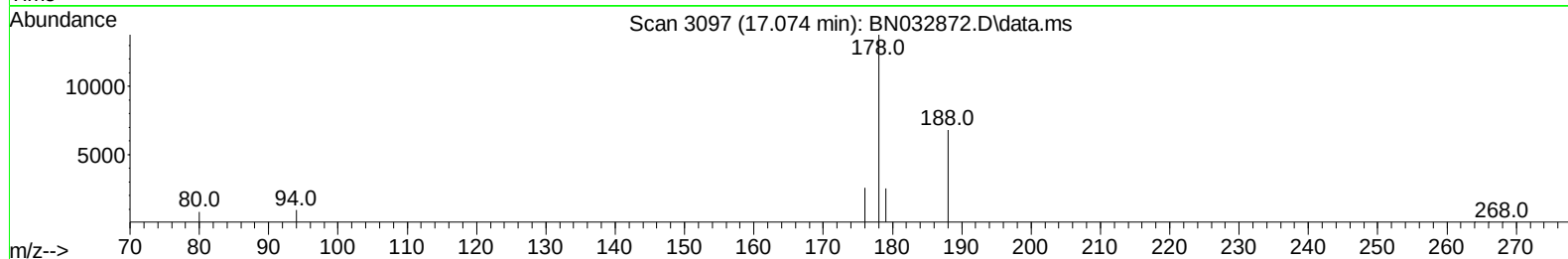
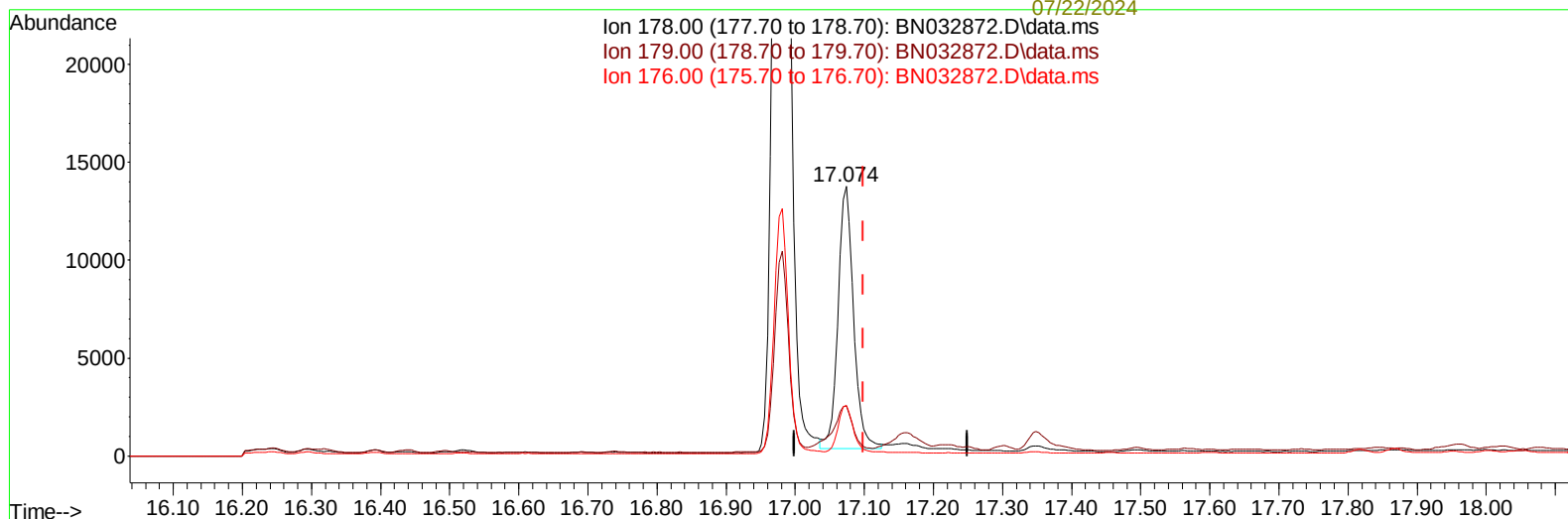
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
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 QLast Update : Sat Jul 20 01:52:15 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/22/2024  
 Supervised By :mohammad ahmed 07/22/2024

Supervised By :mohammad  
 ahmed  
 07/22/2024



TIC: BN032872.D\data.ms

## (16) Anthracene

17.074min (-0.025) 0.67 ng/ul m

response 20822

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 16.80  | 18.46  |
| 176.00 | 19.20  | 18.74  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

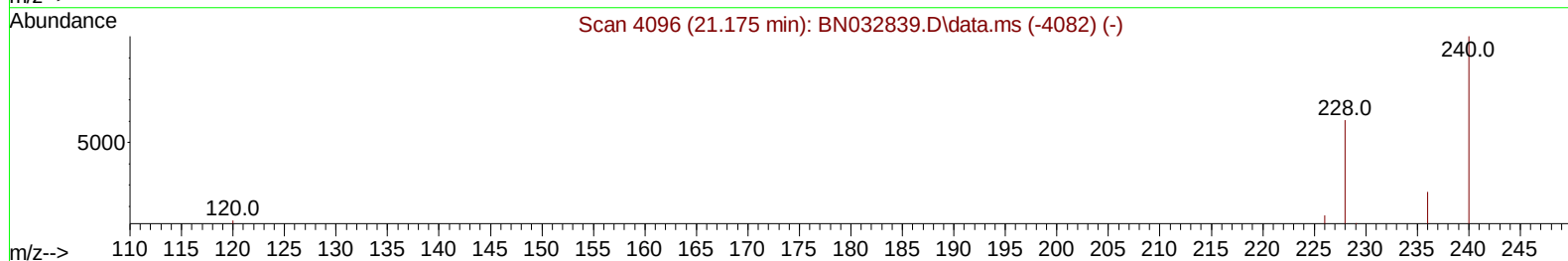
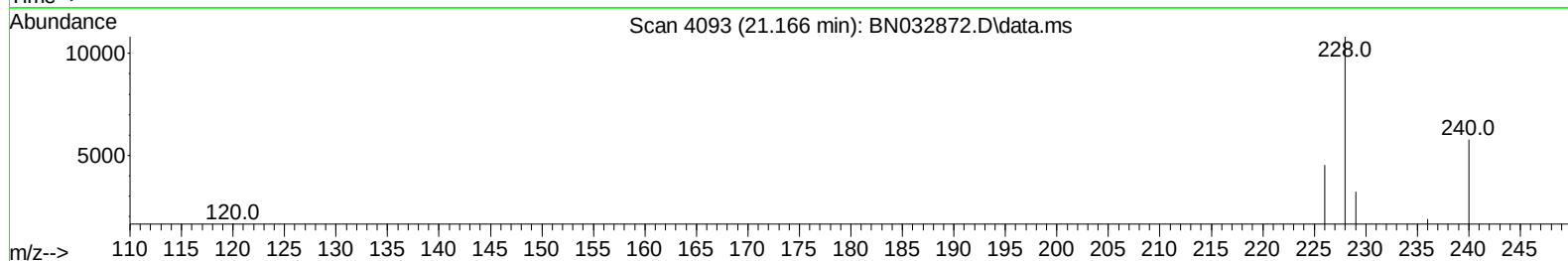
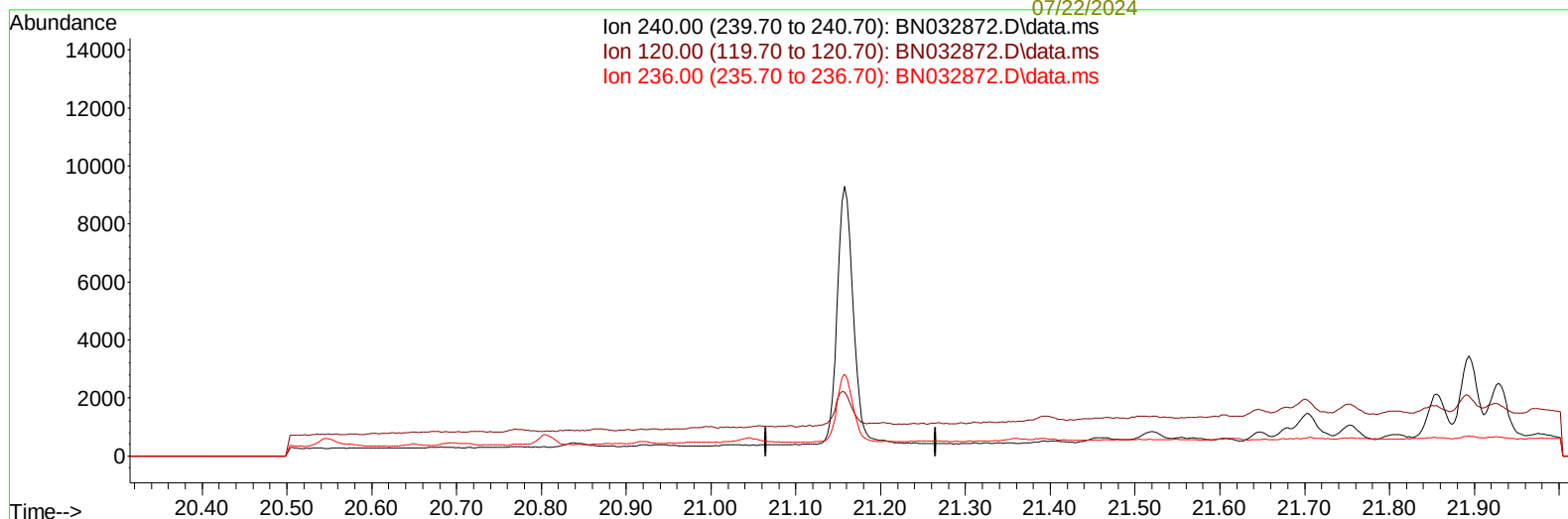
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

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ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (17) Chrysene-d12

21.165min (-21.165) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 240.00 | 100.00 | 0.00  |
| 120.00 | 18.00  | 0.00# |
| 236.00 | 28.40  | 0.00# |
| 0.00   | 0.00   | 0.00  |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

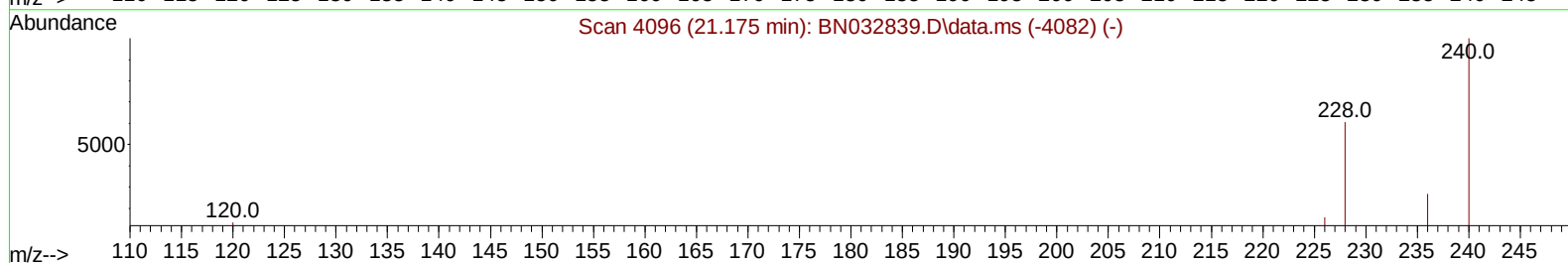
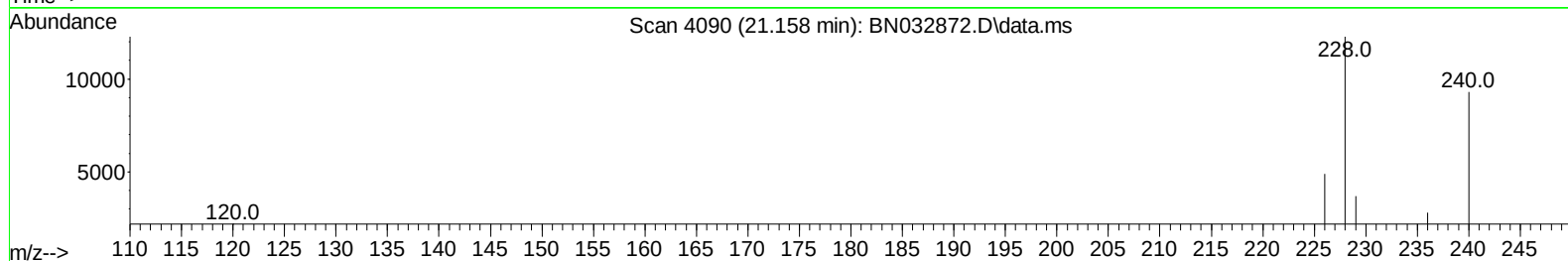
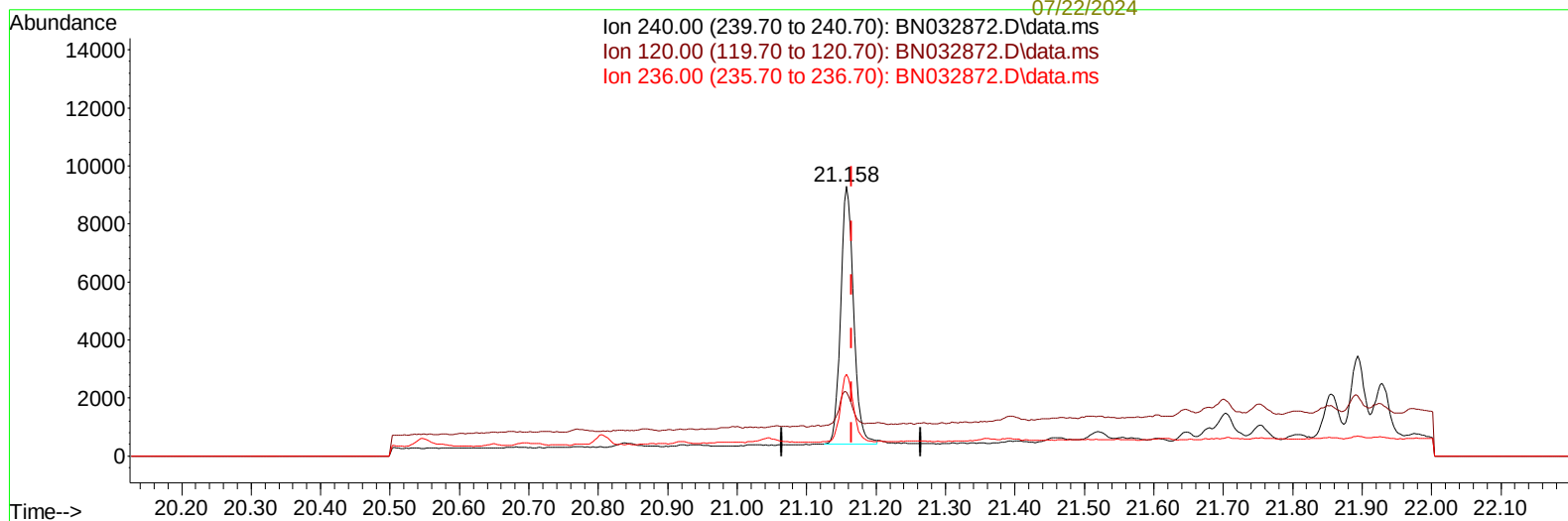
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
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ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (17) Chrysene-d12

21.158min (-0.007) 0.40 ng/ul m

response 11515

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 240.00 | 100.00 | 100.00 |
| 120.00 | 18.00  | 23.63# |
| 236.00 | 28.40  | 30.39  |
| 0.00   | 0.00   | 0.00   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

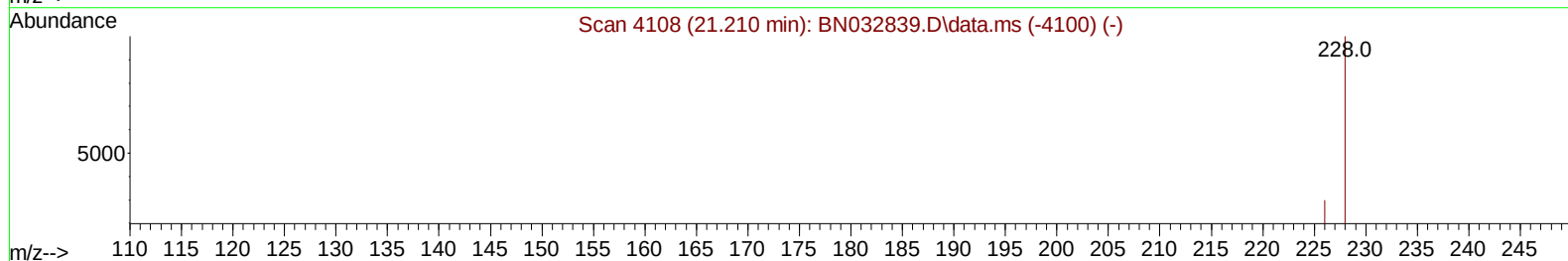
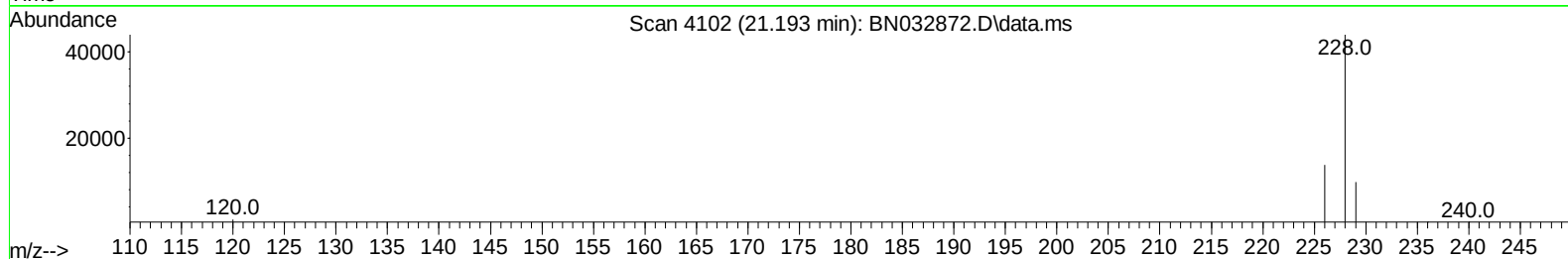
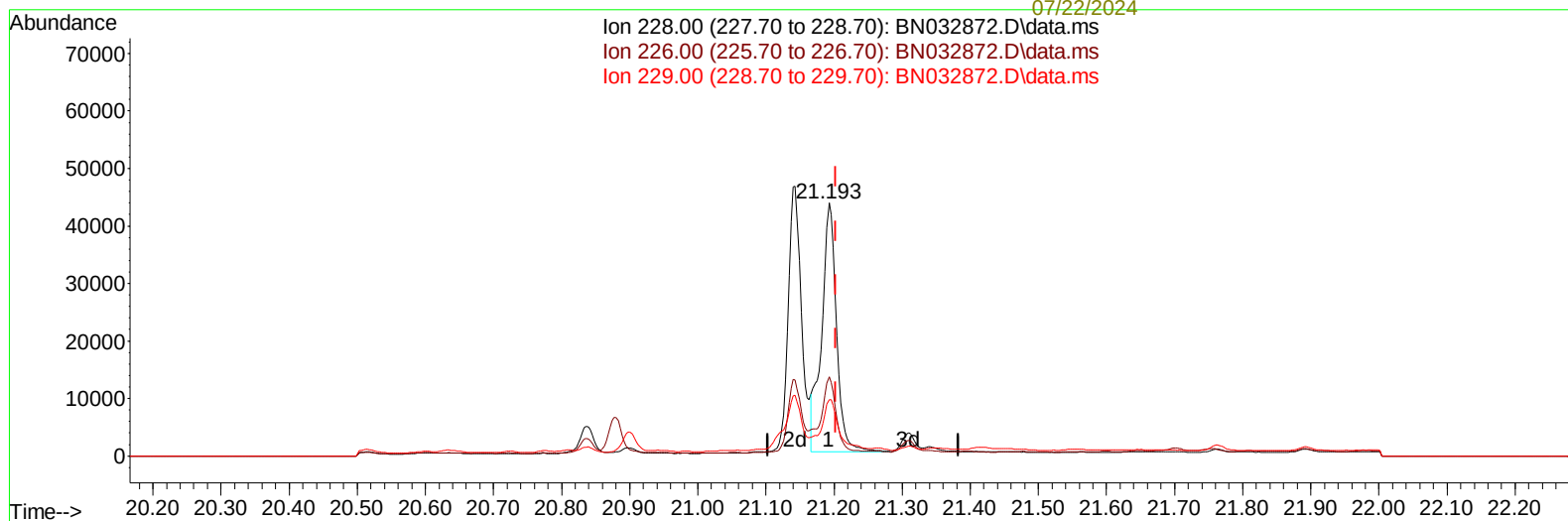
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

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TIC: BN032872.D\data.ms

## (22) Chrysene

21.193min (-0.010) 1.23 ng/u1

response 65099

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.00  | 31.25  |
| 229.00 | 19.70  | 22.37  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

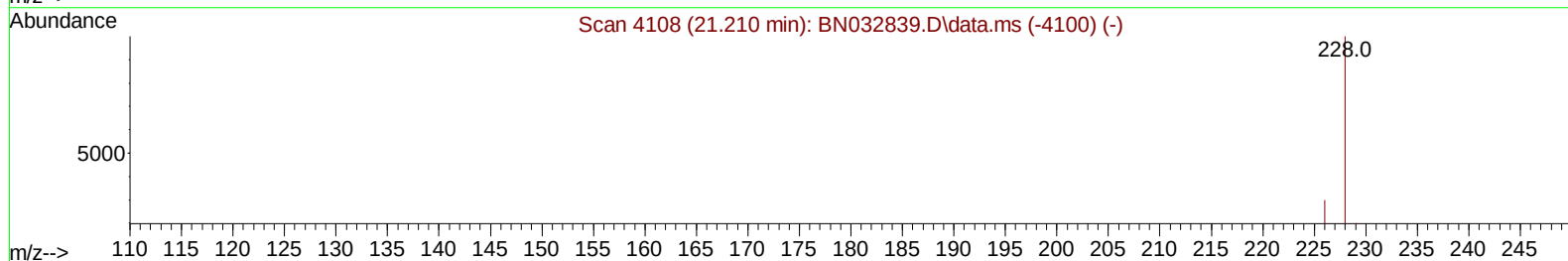
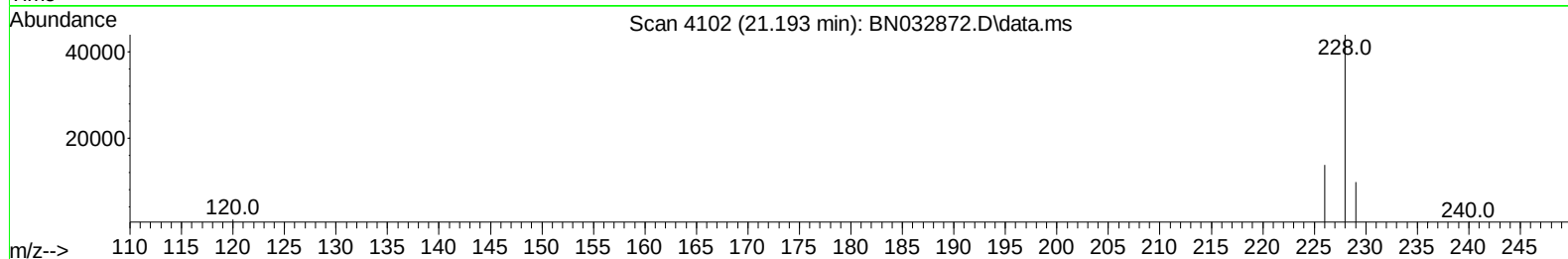
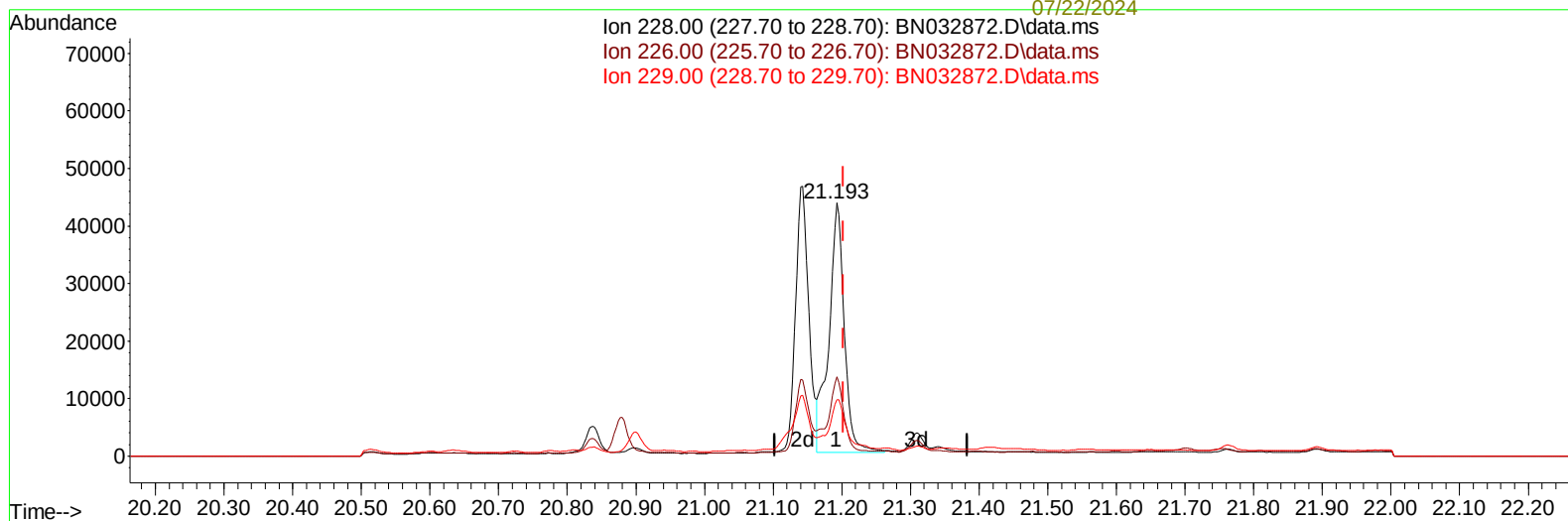
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
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TIC: BN032872.D\data.ms

## (22) Chrysene

21.193min (-0.010) 1.27 ng/ul m

response 67535

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 30.00  | 31.25  |
| 229.00 | 19.70  | 22.37  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
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Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

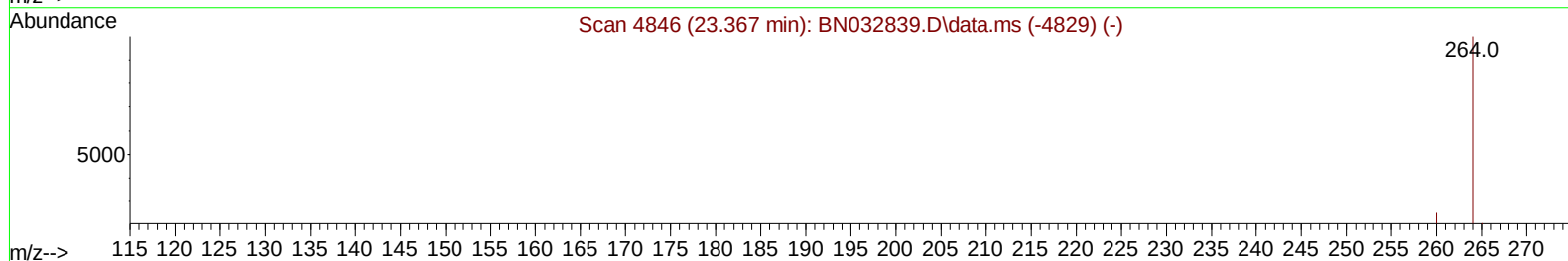
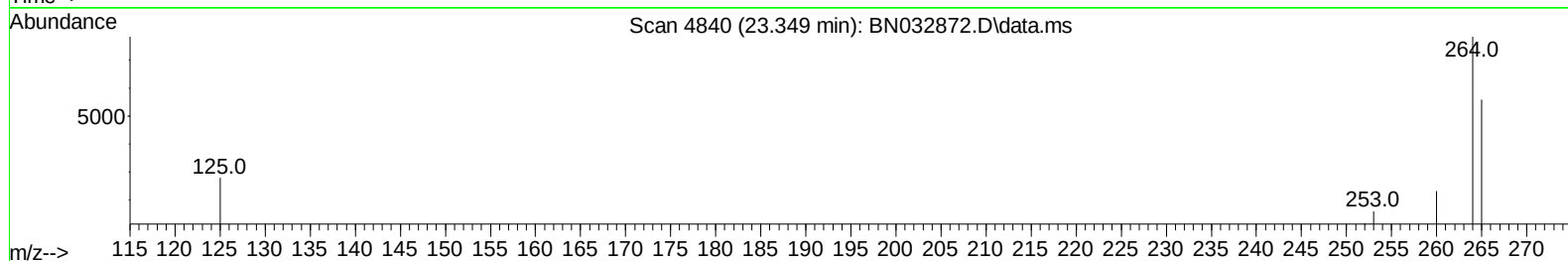
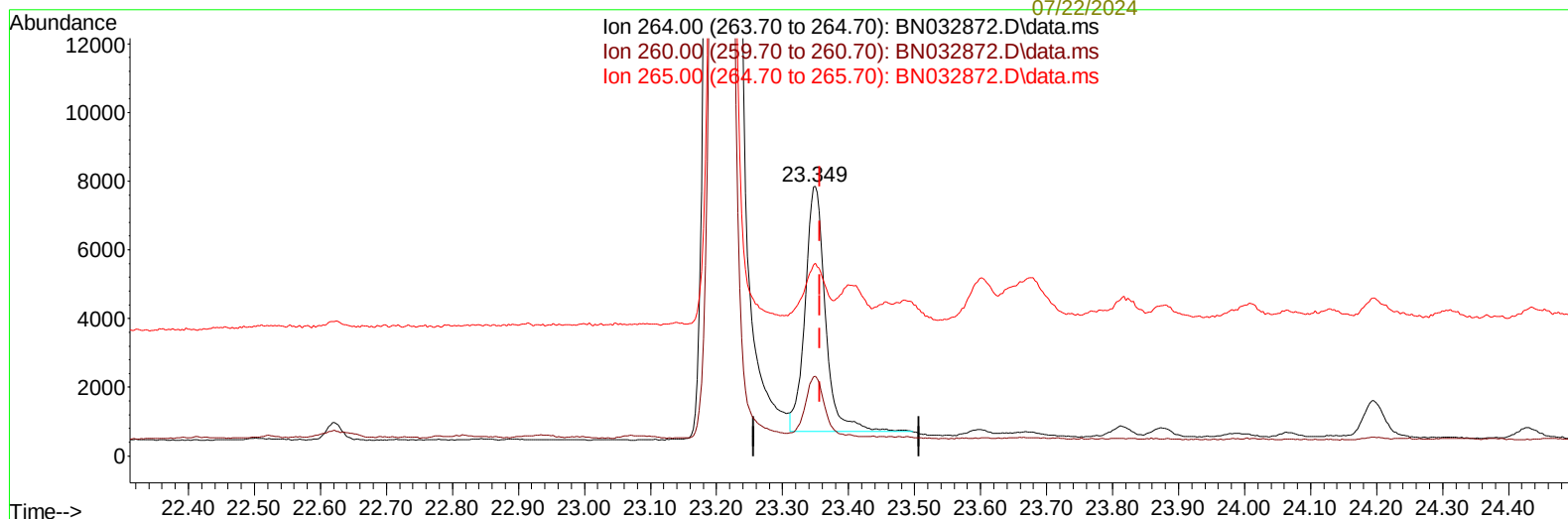
Instrument :  
BNA\_N  
ClientSampleId :  
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TIC: BN032872.D\data.ms

## (23) Perylene-d12 (I)

23.349min (-0.007) 0.40 ng/u1

response 15268

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.10  | 29.59  |
| 265.00 | 95.50  | 71.46# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
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ALS Vial : 36 Sample Multiplier: 1

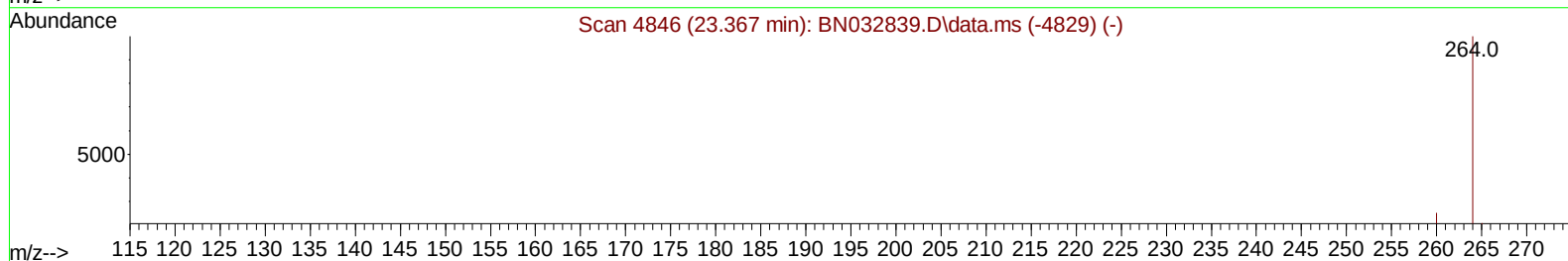
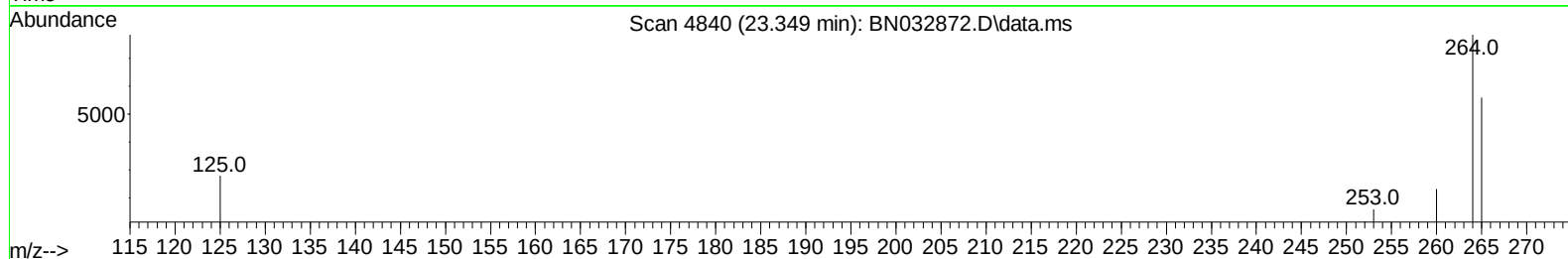
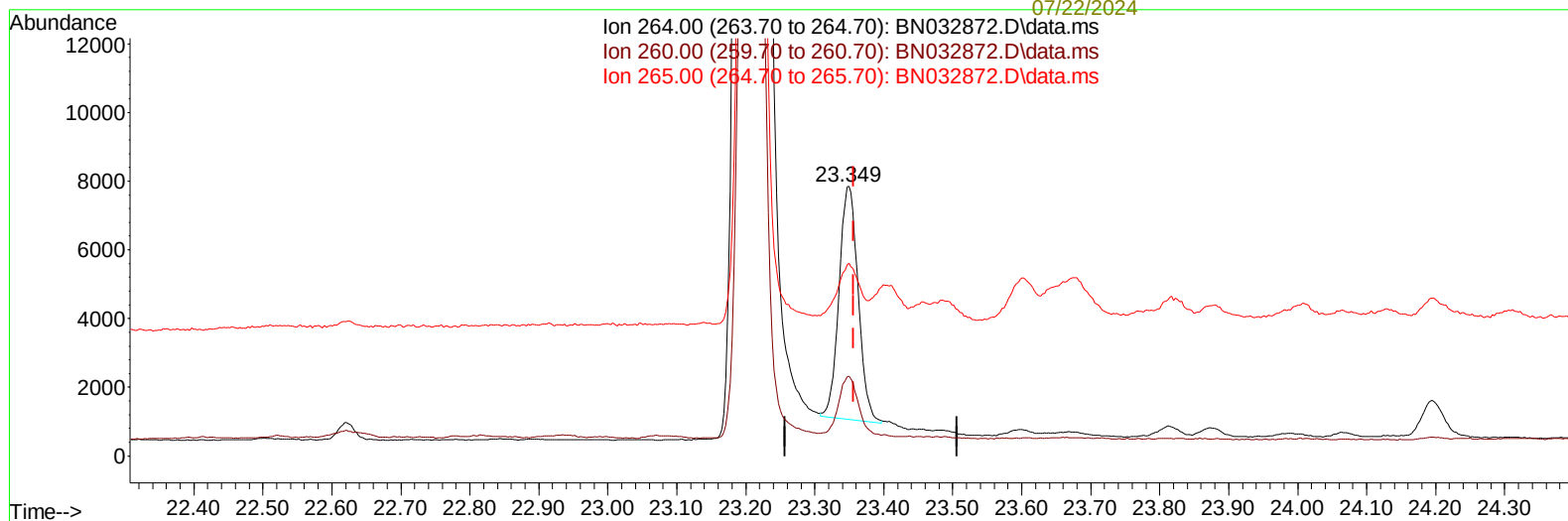
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

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07/22/2024



TIC: BN032872.D\data.ms

## (23) Perylene-d12 (I)

23.349min (-0.007) 0.40 ng/ul m

response 13072

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.10  | 29.59  |
| 265.00 | 95.50  | 71.46# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

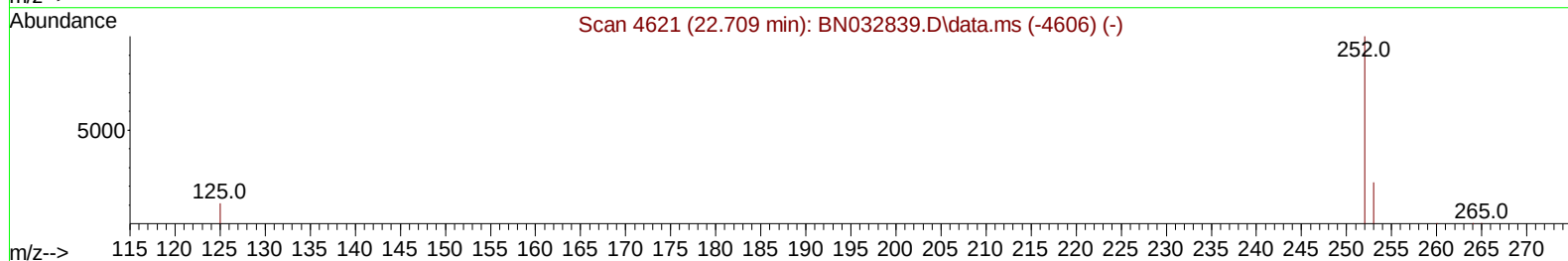
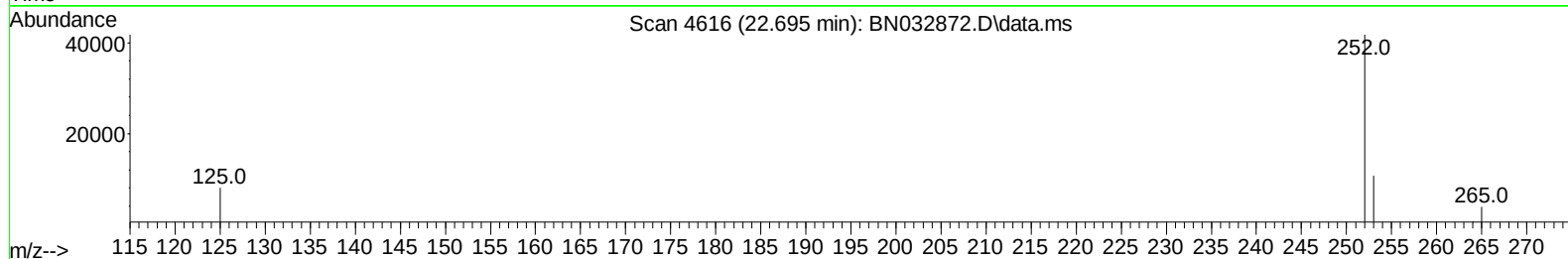
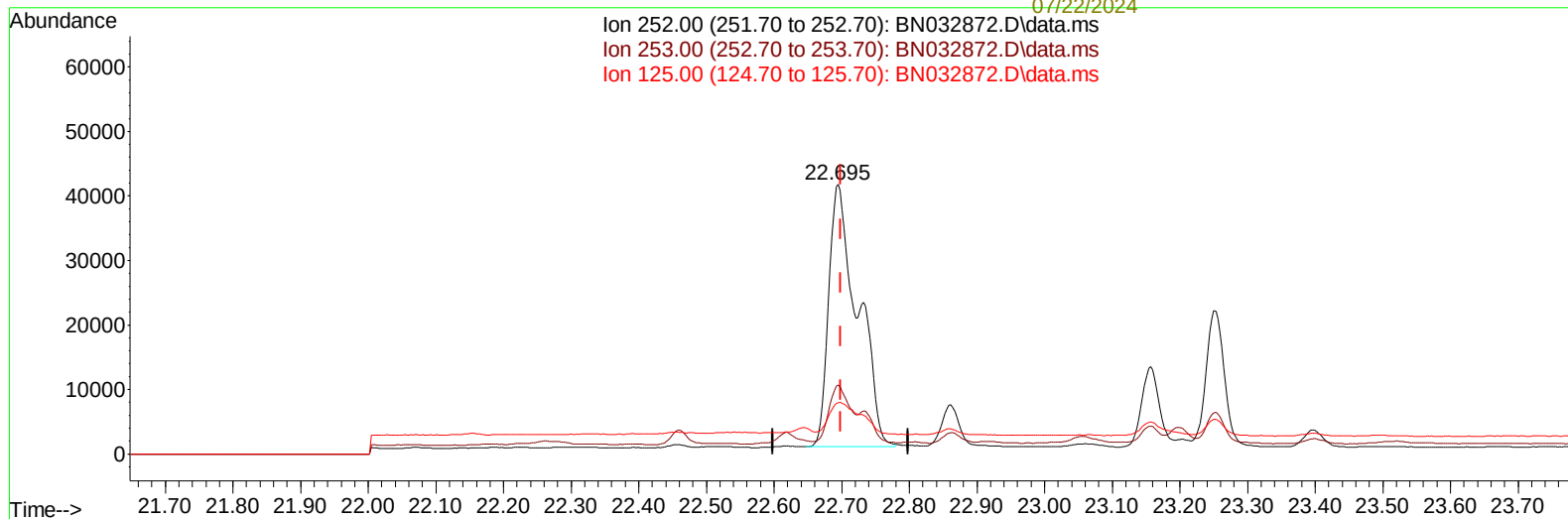
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 20 01:52:15 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024

Supervised By :mohammad  
ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (24) Benzo(b)fluoranthene

22.695min (-0.004) 2.62 ng/u1

response 120625

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 27.00  | 25.51  |
| 125.00 | 18.00  | 19.07  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

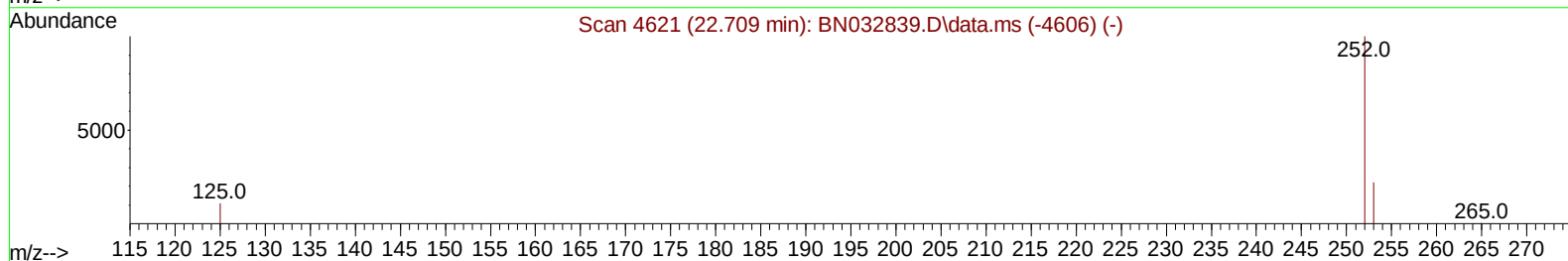
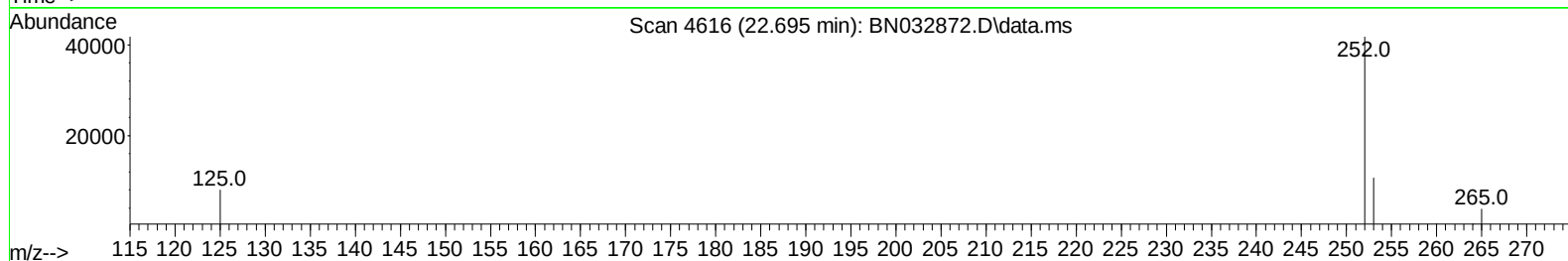
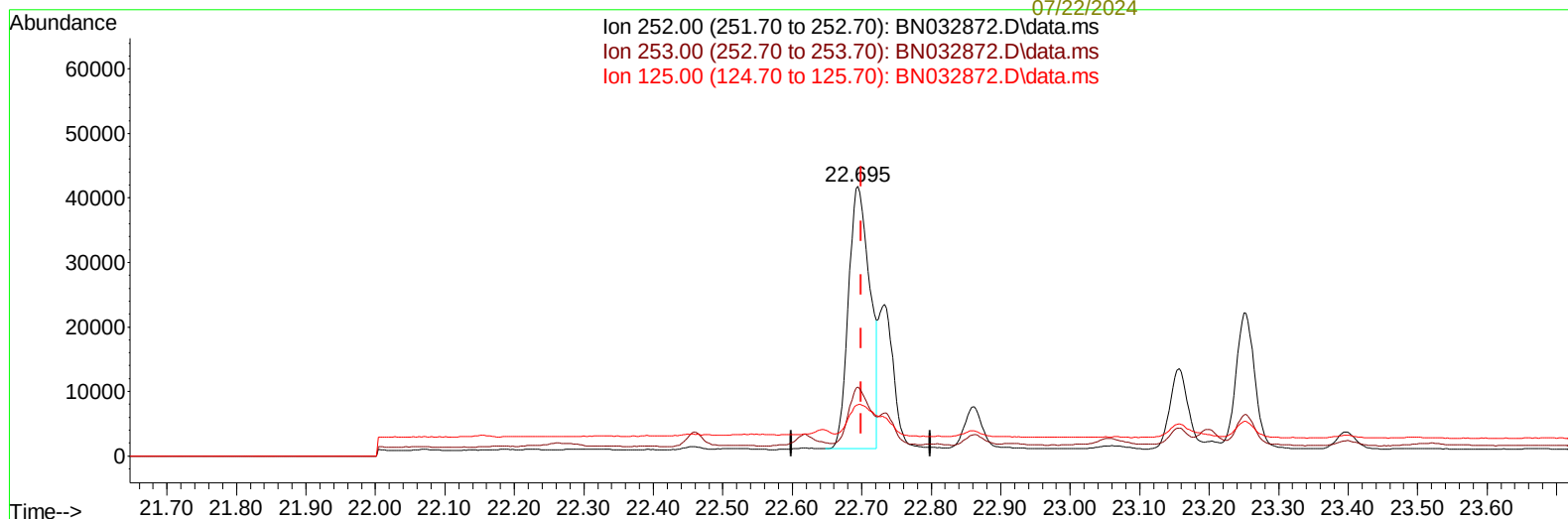
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
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ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (24) Benzo(b)fluoranthene

22.695min (-0.004) 1.89 ng/ul m

response 87250

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 27.00  | 25.51  |
| 125.00 | 18.00  | 19.07  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

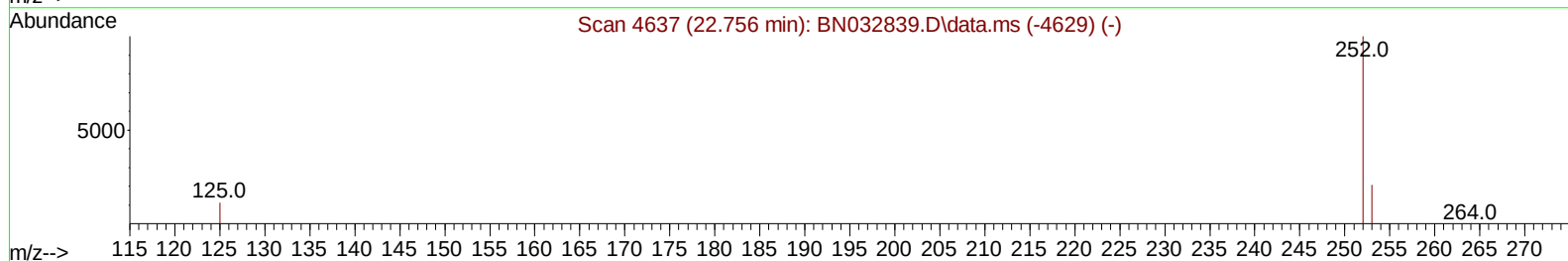
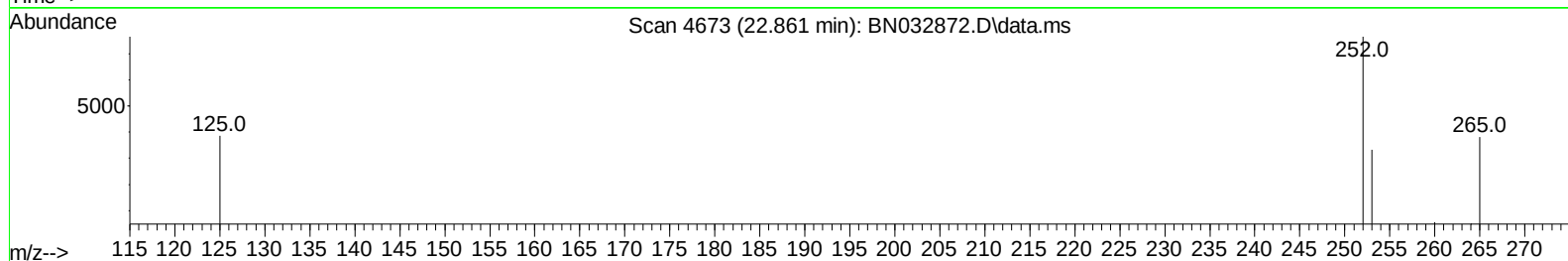
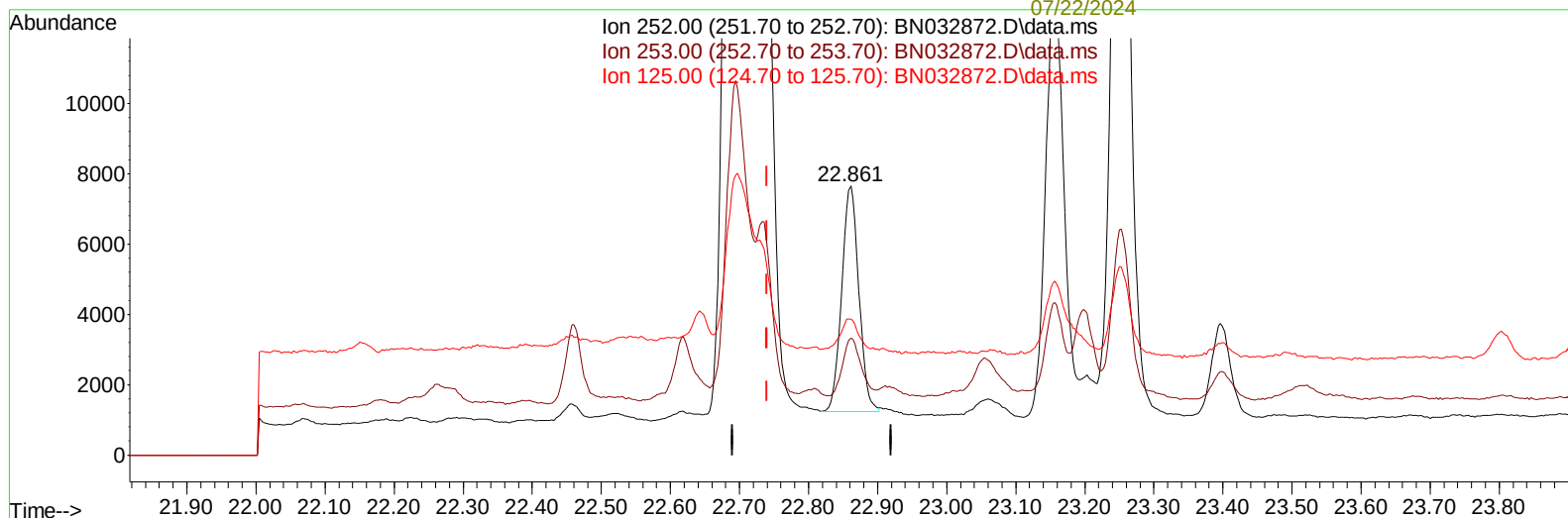
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

Quant Time: Jul 21 22:43:37 2024  
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TIC: BN032872.D\data.ms

## (25) Benzo(k)fluoranthene

22.861min (+ 0.121) 0.20 ng/u1

response 11057

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 26.50  | 43.46# |
| 125.00 | 18.50  | 50.59# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032872.D  
Acq On : 20 Jul 2024 10:27  
Operator : MA/JU  
Sample : P3238-14  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

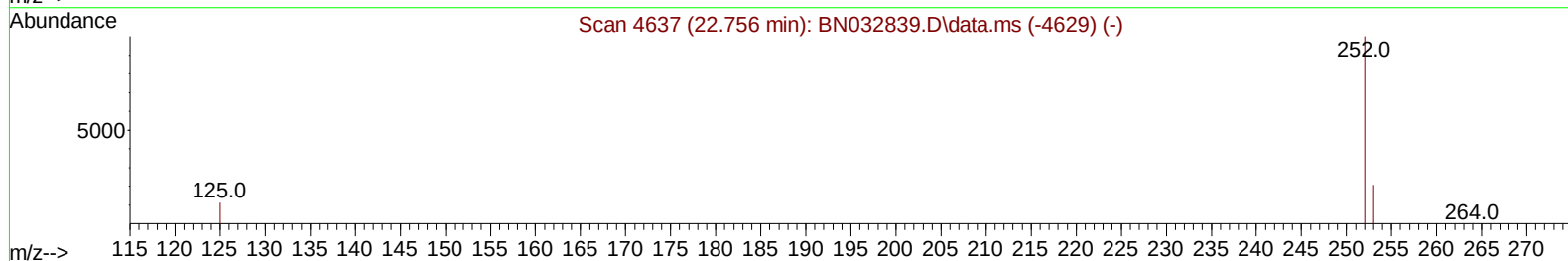
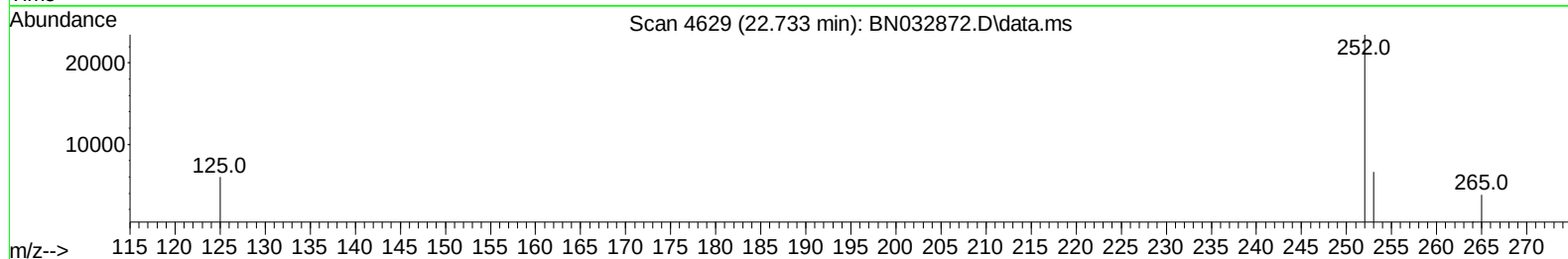
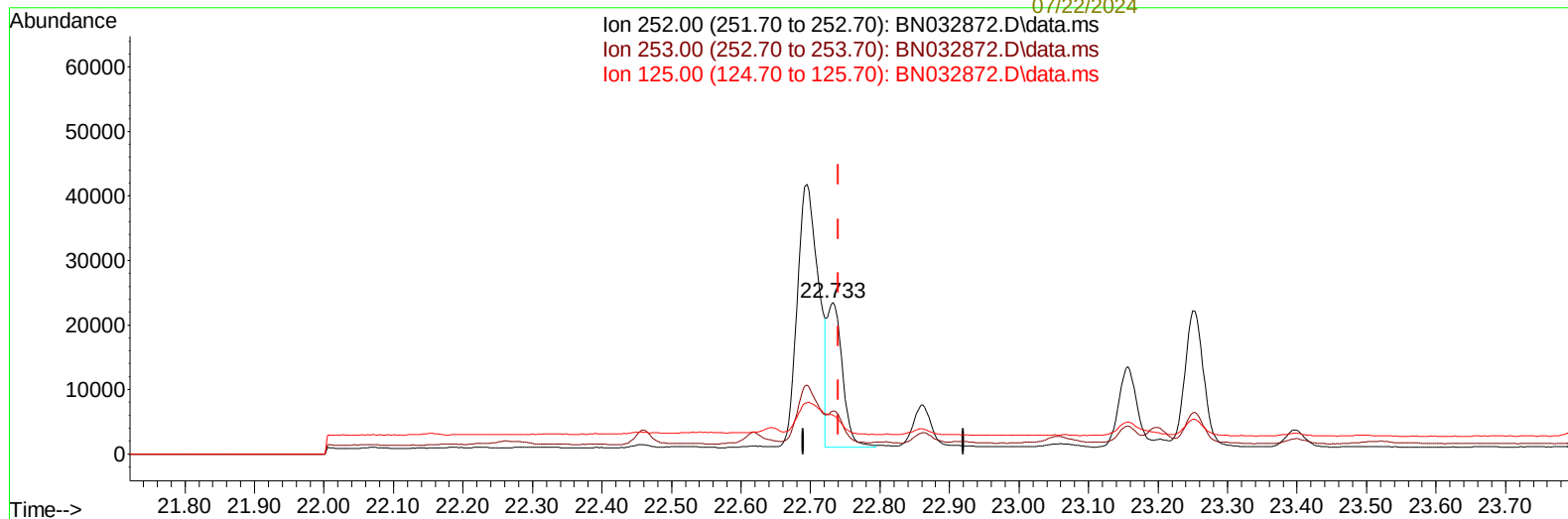
Instrument :  
BNA\_N  
ClientSampleId :  
A4BG0

## Manual IntegrationsAPPROVED

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ahmed  
07/22/2024



TIC: BN032872.D\data.ms

## (25) Benzo(k)fluoranthene

22.733min (-0.007) 0.61 ng/ul m

response 34362

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 26.50  | 28.30  |
| 125.00 | 18.50  | 25.52# |
| 0.00   | 0.00   | 0.00   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
 Data File : BN032872.D  
 Acq On : 20 Jul 2024 10:27  
 Operator : MA/JU  
 Sample : P3238-14  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BG0

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2024  
 Supervised By :mohammad ahmed 07/22/2024

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 ahmed  
 07/22/2024

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 QLast Update : Sat Jul 20 01:52:15 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.523  | 152  | 4921     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.293 | 136  | 15024    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.178 | 164  | 8244     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.939 | 188  | 13981m   | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.158 | 240  | 11515m   | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.349 | 264  | 13072m   | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.084  | 96   | 13869    | 2.347 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.898 | 152  | 3664     | 0.161 | ng/ul  | -0.03    |
| 18) Fluoranthene-d10        | 18.984 | 212  | 5691     | 0.152 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.342 | 128  | 5286     | 0.131 | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 11.975 | 142  | 2195     | 0.087 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.195 | 142  | 2074     | 0.080 | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.900 | 152  | 4041     | 0.121 | ng/ul# | 91       |
| 11) Acenaphthene            | 14.243 | 153  | 8813     | 0.320 | ng/ul  | 99       |
| 12) Fluorene                | 15.237 | 166  | 6302     | 0.200 | ng/ul  | 99       |
| 15) Phenanthrene            | 16.981 | 178  | 96915m   | 2.545 | ng/ul  |          |
| 16) Anthracene              | 17.074 | 178  | 20822m   | 0.669 | ng/ul  |          |
| 19) Fluoranthene            | 19.011 | 202  | 142536   | 3.044 | ng/ul  | 99       |
| 20) Pyrene                  | 19.379 | 202  | 106843   | 2.205 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.143 | 228  | 62162    | 1.696 | ng/ul  | 97       |
| 22) Chrysene                | 21.193 | 228  | 67535m   | 1.274 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.695 | 252  | 87250m   | 1.892 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.733 | 252  | 34362m   | 0.611 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.250 | 252  | 39754    | 0.996 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.554 | 276  | 34603    | 0.640 | ng/ul# | 95       |
| 28) Dibenzo(a,h)anthracene  | 25.551 | 278  | 11339    | 0.271 | ng/ul# | 55       |
| 29) Benzo(g,h,i)perylene    | 26.238 | 276  | 5459     | 0.121 | ng/ul# | 43       |
| -----                       |        |      |          |       |        |          |

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

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