

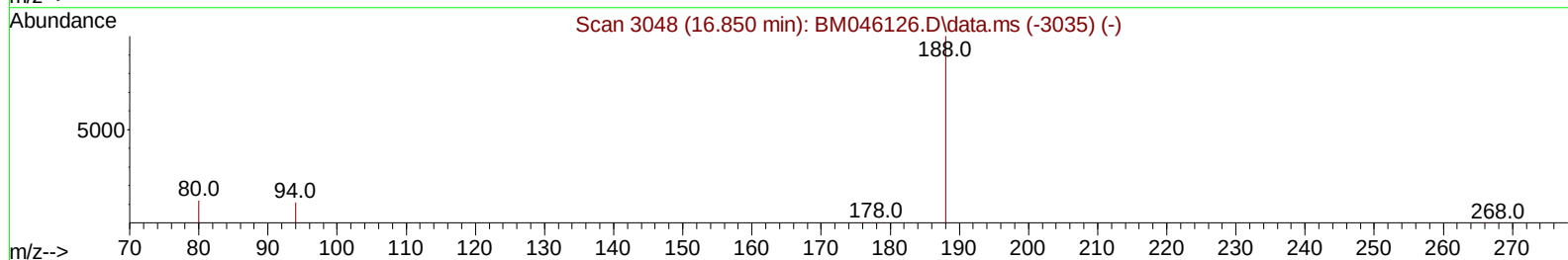
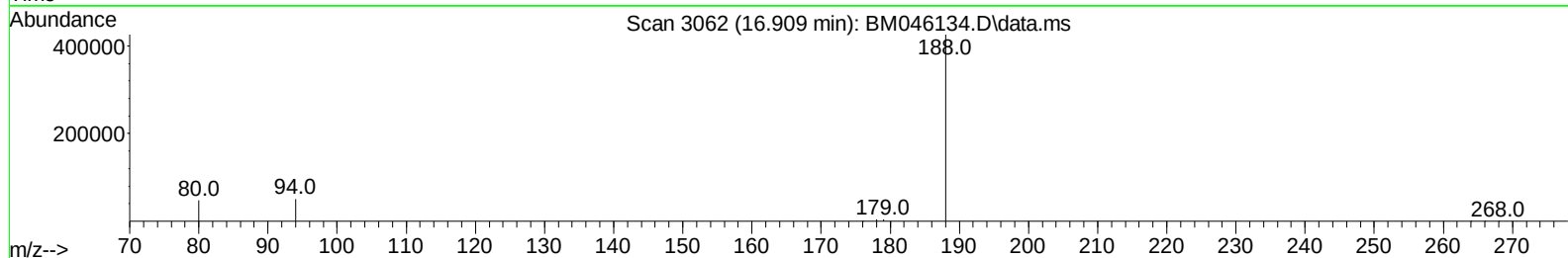
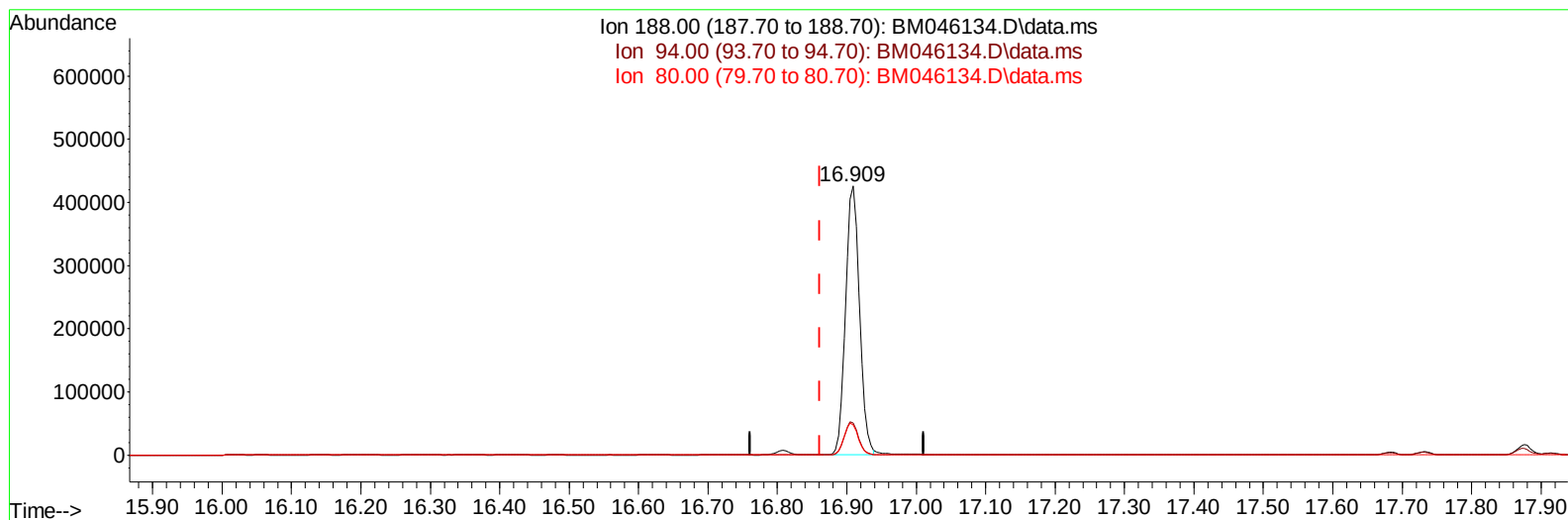
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
Acq On : 20 Jun 2024 21:51  
Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

Quant Time: Jun 21 02:49:18 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024  
Supervised By :mohammad ahmed 06/24/2024



TIC: BM046134.D\data.ms

(13) Phenanthrene-d10 (I)

16.909min (+ 0.048) 0.40 ng/u1

response 594403

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 13.80  | 11.89  |
| 80.00  | 15.20  | 11.22# |
| 0.00   | 0.00   | 0.00   |

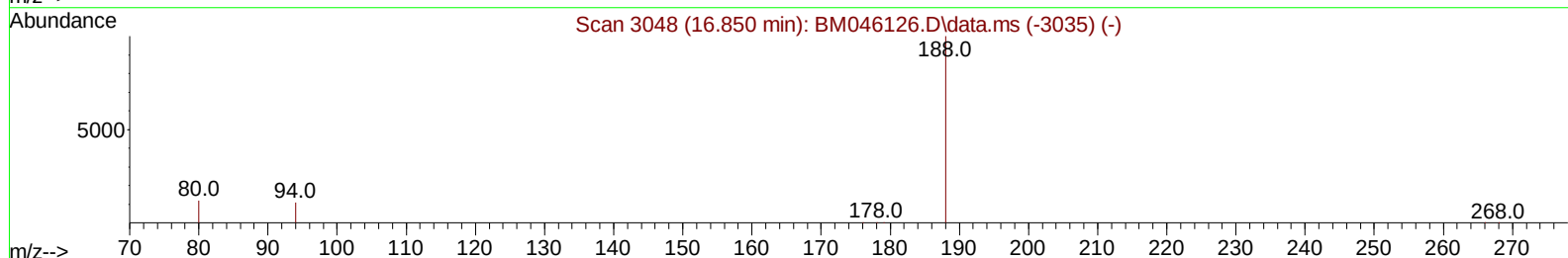
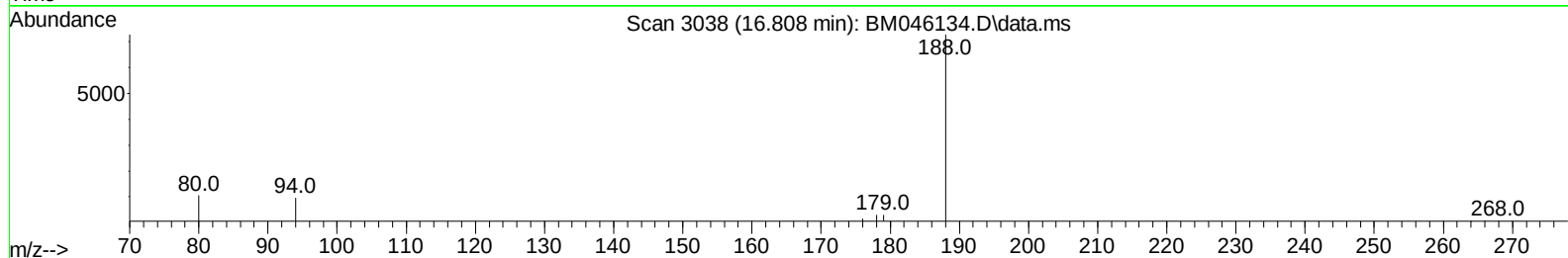
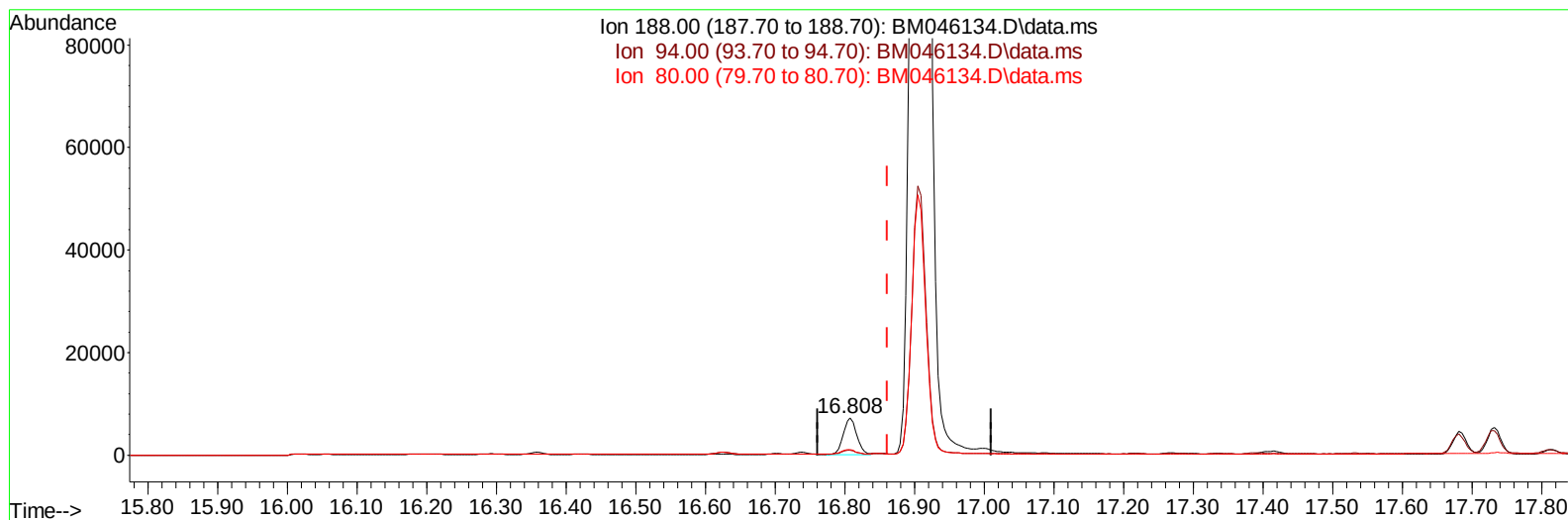
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
Acq On : 20 Jun 2024 21:51  
Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

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TIC: BM046134.D\data.ms

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

**16.808min (-0.054) 0.40 ng/ul m**

**response 9660**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 13.80  | 13.24  |
| 80.00  | 15.20  | 14.56  |
| 0.00   | 0.00   | 0.00   |

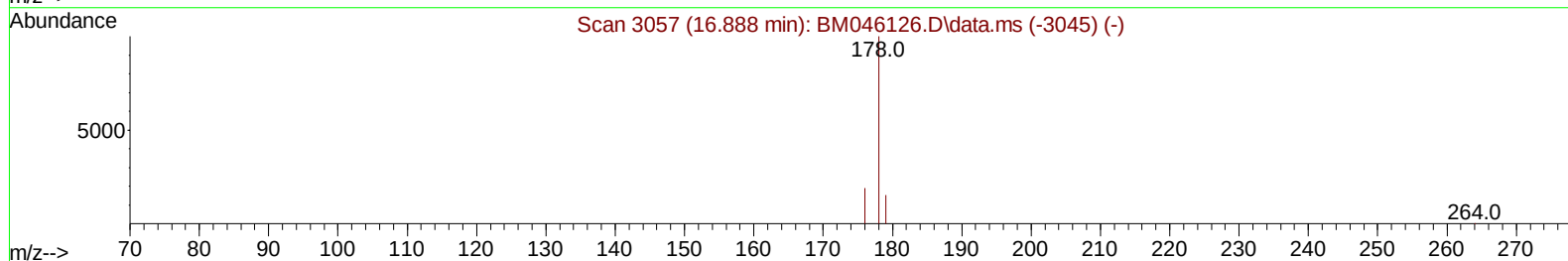
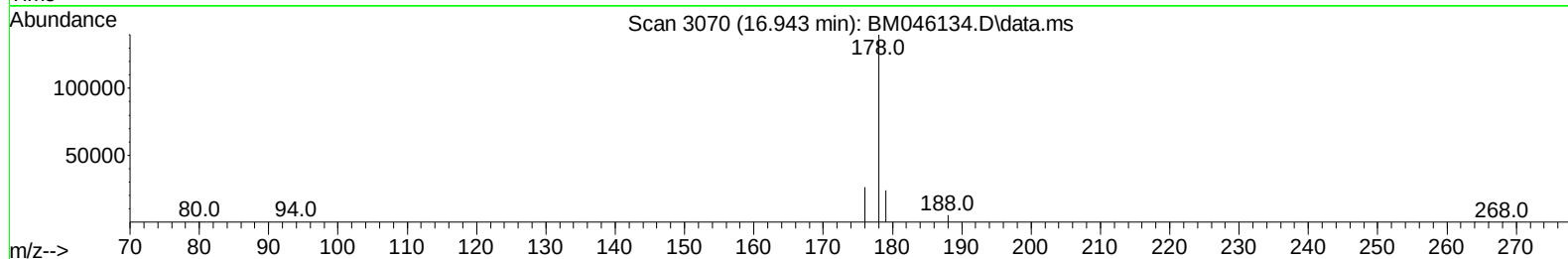
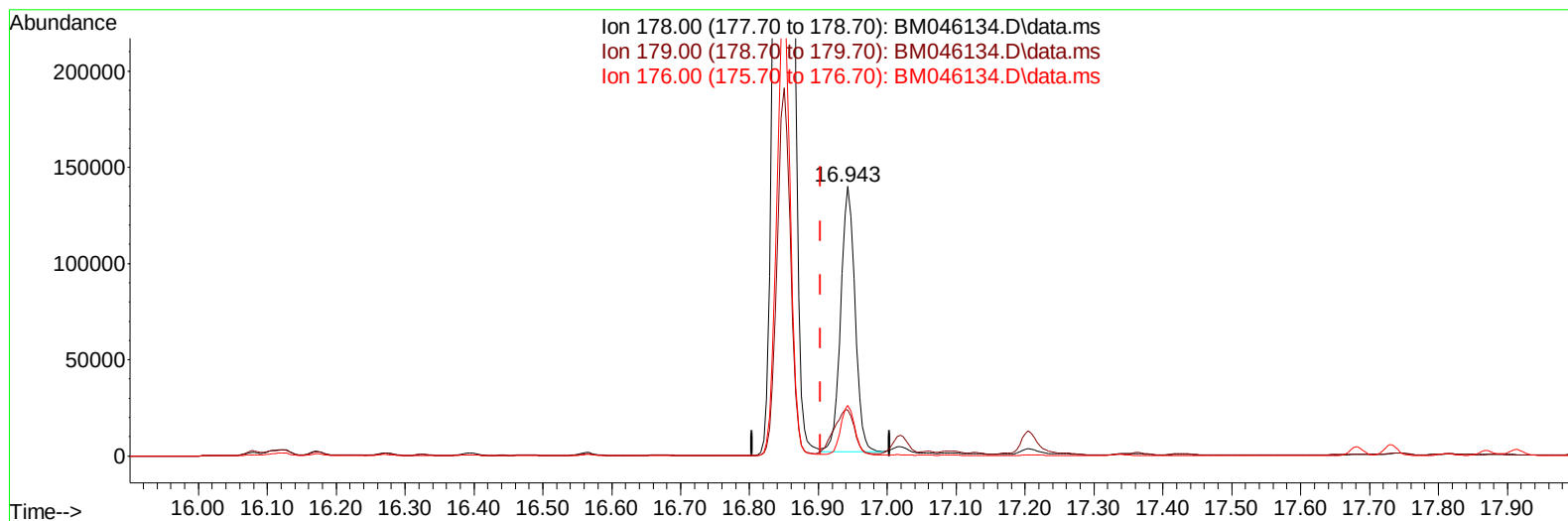
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
Acq On : 20 Jun 2024 21:51  
Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

Quant Time: Jun 21 02:49:18 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 18 13:58:29 2024  
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Supervised By :mohammad ahmed 06/24/2024



TIC: BM046134.D\data.ms

(15) Phenanthrene

16.943min (+ 0.039) 7.30 ng/u1

response 198163

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.70  | 17.15  |
| 176.00 | 21.40  | 18.85  |
| 0.00   | 0.00   | 0.00   |

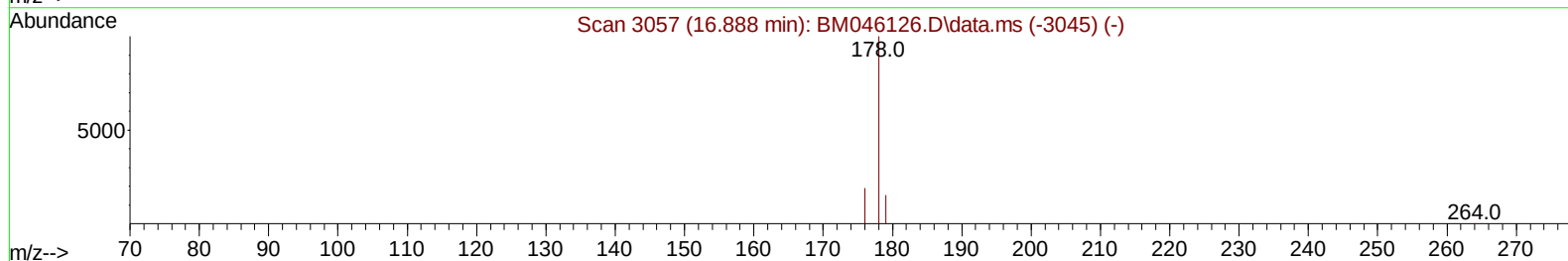
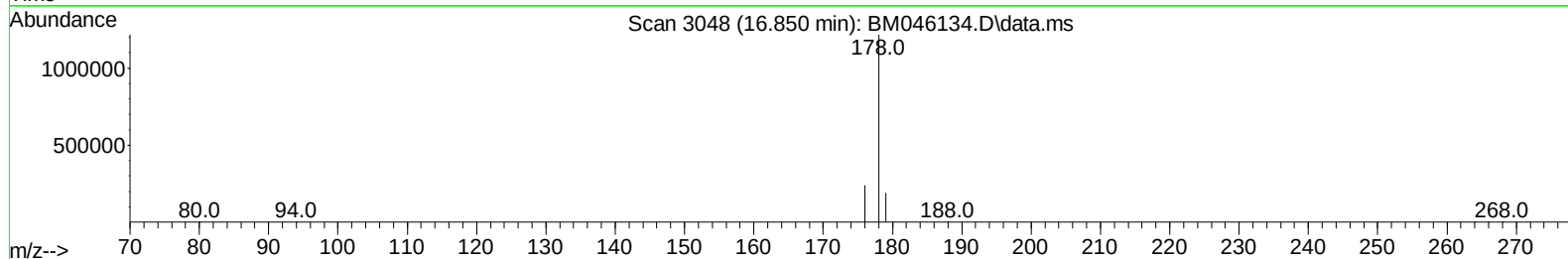
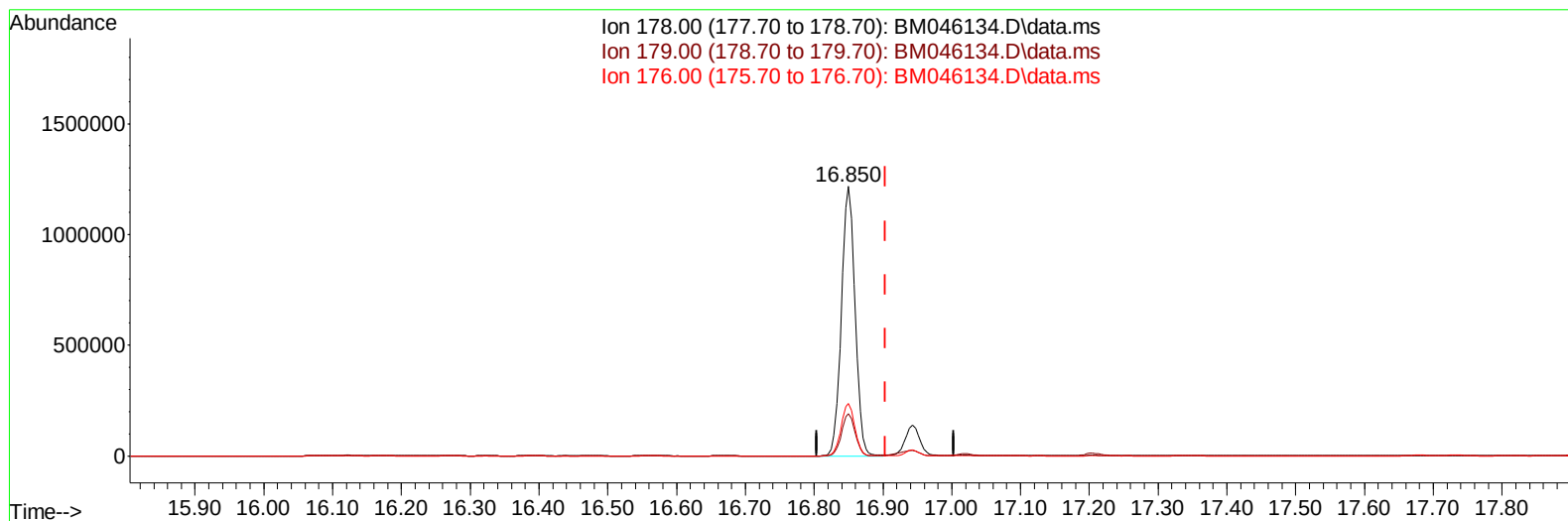
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
 Data File : BM046134.D  
 Acq On : 20 Jun 2024 21:51  
 Operator : MA/JU  
 Sample : P2710-03  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4B23

Manual IntegrationsAPPROVED

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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 18 13:58:29 2024  
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Reviewed By :Jagrut Upadhyay 06/21/2024  
 Supervised By :mohammad ahmed 06/24/2024



TIC: BM046134.D\data.ms

(15) Phenanthrene

16.850min (-0.054) 62.16 ng/ul m

response 1687080

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.70  | 15.71  |
| 176.00 | 21.40  | 19.59  |
| 0.00   | 0.00   | 0.00   |

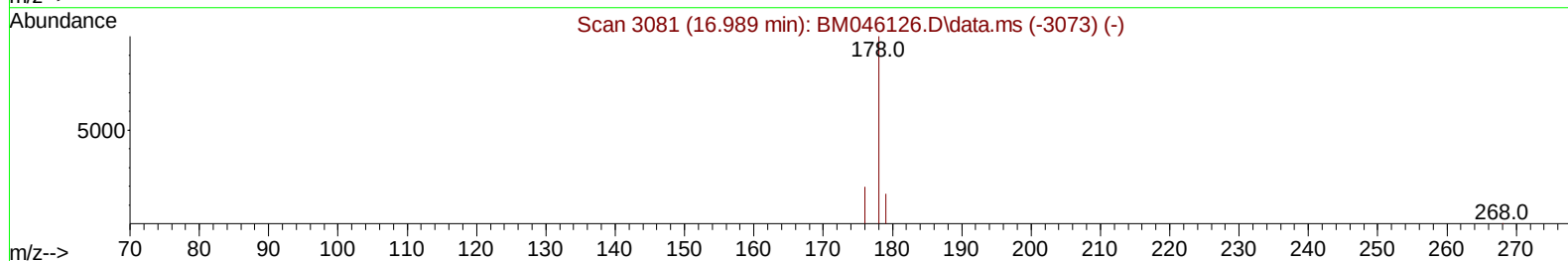
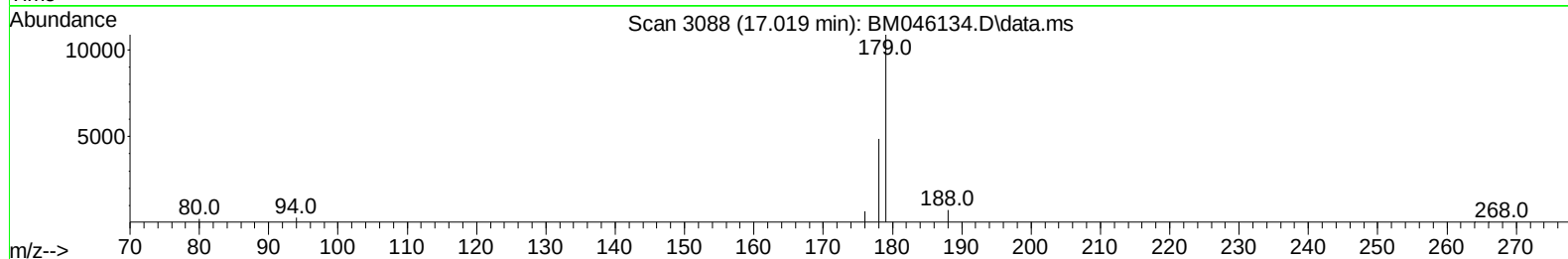
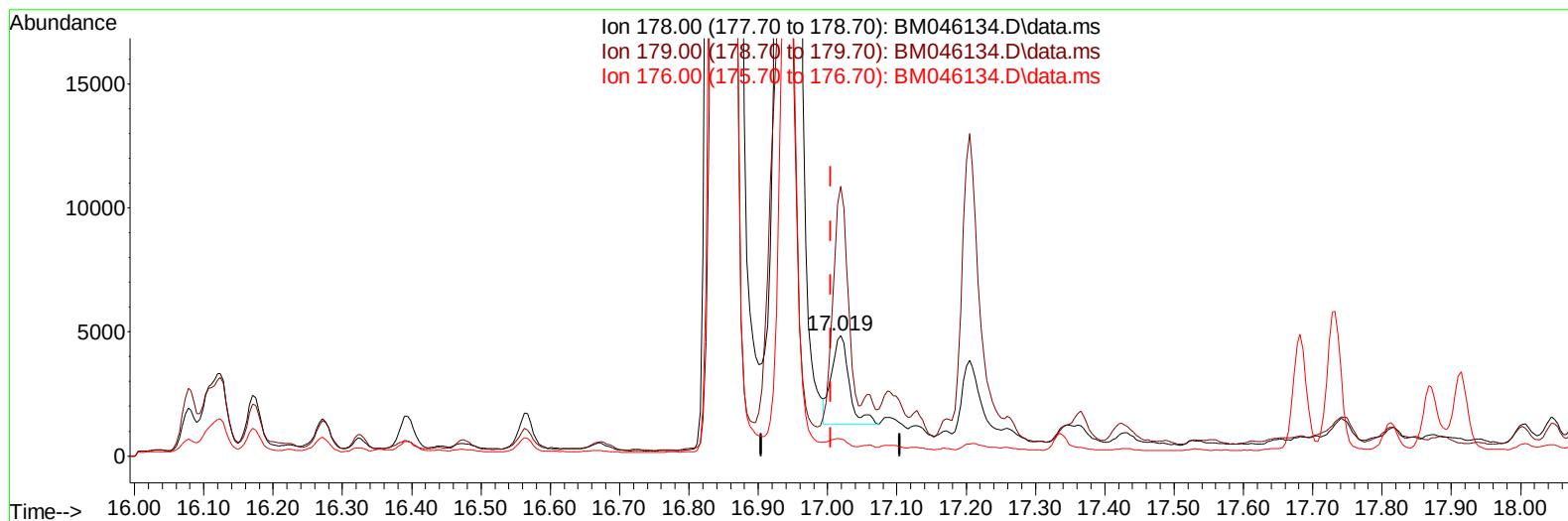
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
 Data File : BM046134.D  
 Acq On : 20 Jun 2024 21:51  
 Operator : MA/JU  
 Sample : P2710-03  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4B23

Manual IntegrationsAPPROVED

Quant Time: Jun 21 02:49:18 2024  
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 Supervised By :mohammad ahmed 06/24/2024



TIC: BM046134.D\data.ms

**(16) Anthracene**

17.019min (+ 0.014) 0.31 ng/u1

response 6319

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 178.00 | 100.00 | 100.00  |
| 179.00 | 18.60  | 223.24# |
| 176.00 | 21.20  | 14.03#  |
| 0.00   | 0.00   | 0.00    |

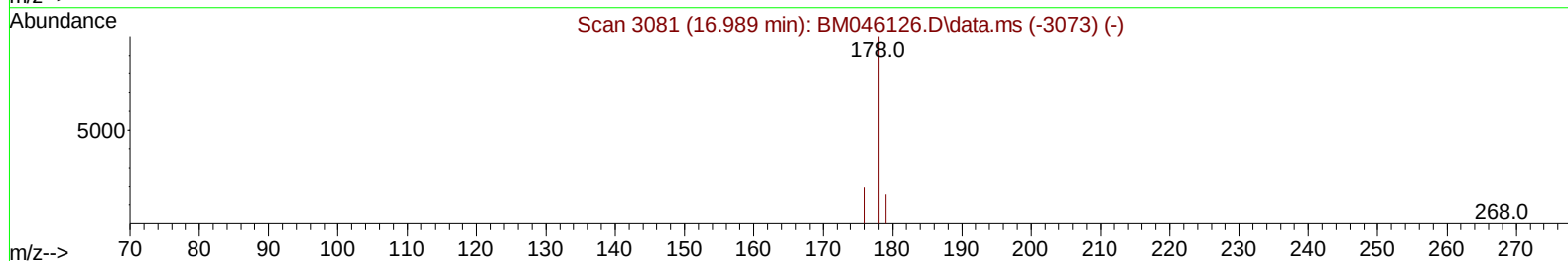
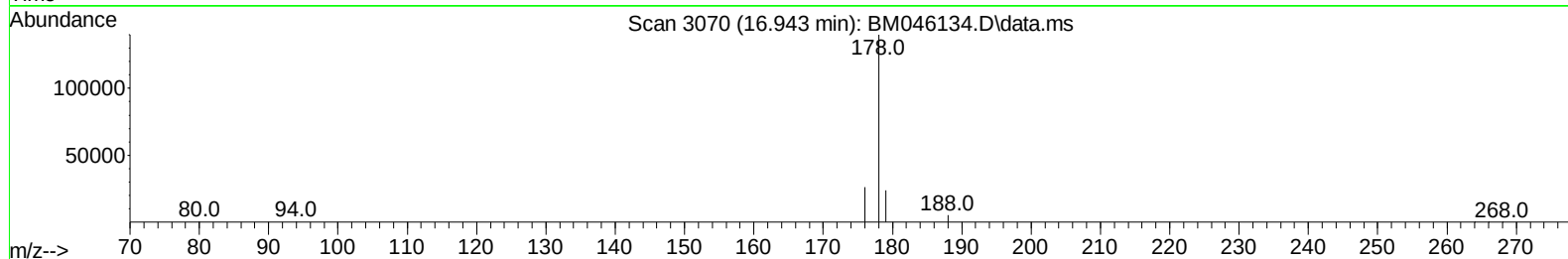
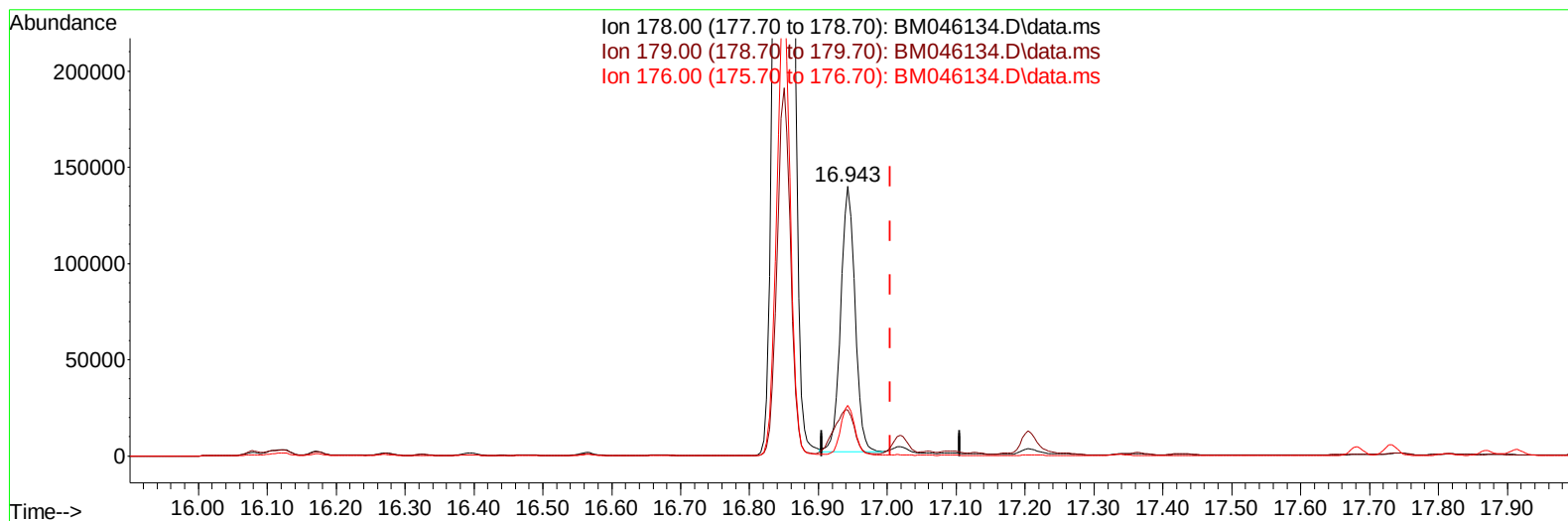
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
Acq On : 20 Jun 2024 21:51  
Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

Quant Time: Jun 21 02:49:18 2024  
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QLast Update : Tue Jun 18 13:58:29 2024  
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Supervised By :mohammad ahmed 06/24/2024



TIC: BM046134.D\data.ms

(16) Anthracene

16.943min (-0.062) 9.85 ng/ul m

response 199133

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 18.60  | 17.15  |
| 176.00 | 21.20  | 18.85  |
| 0.00   | 0.00   | 0.00   |

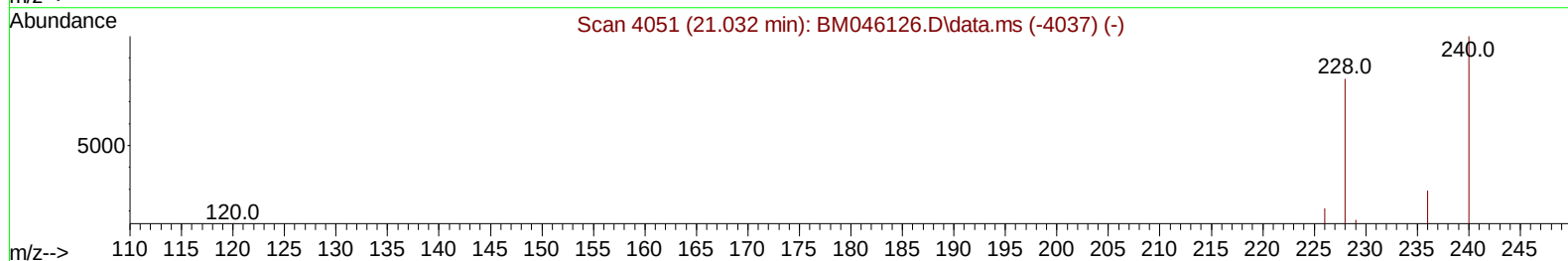
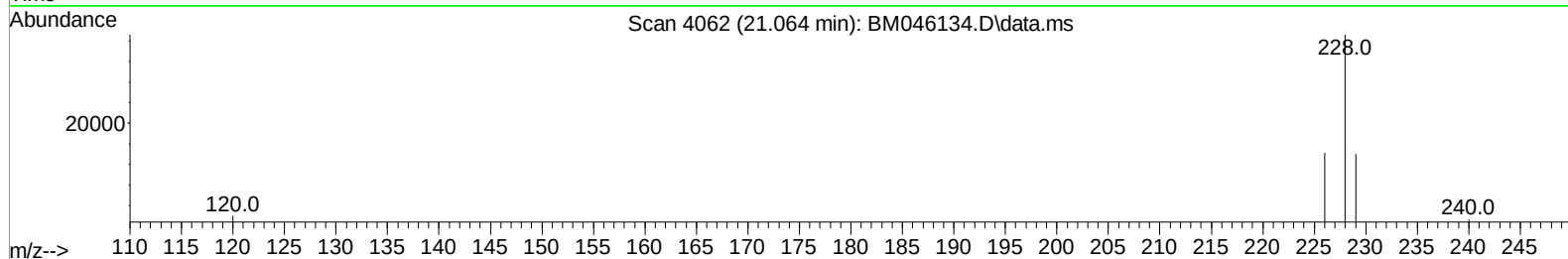
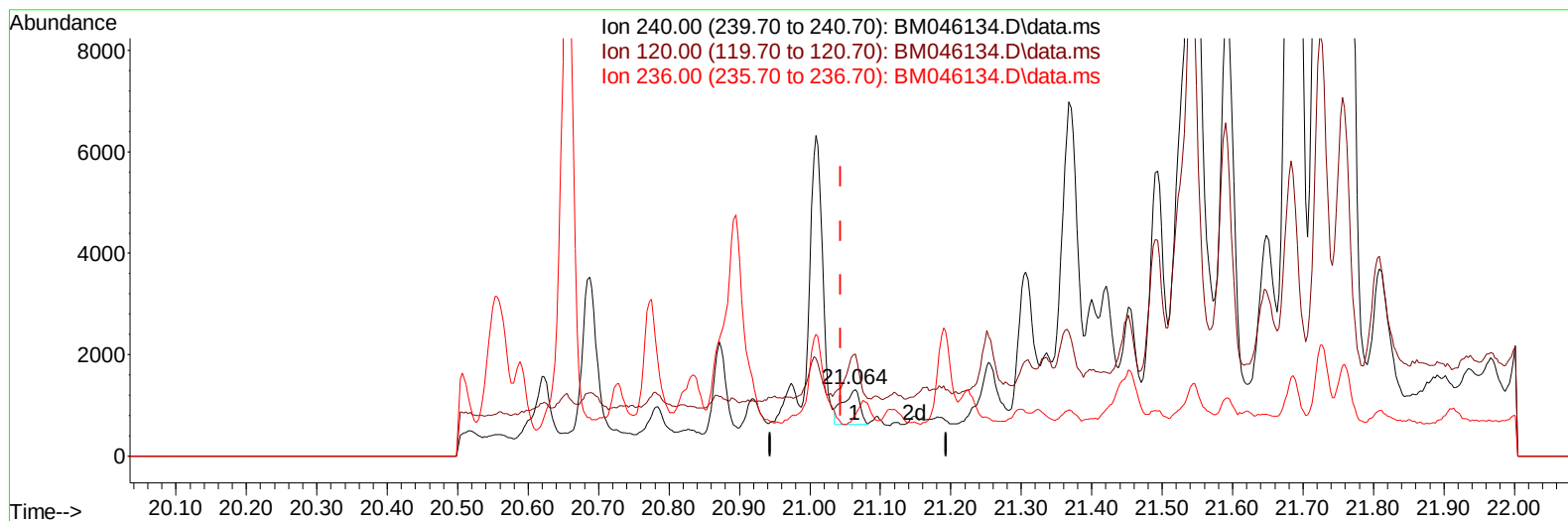
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
Acq On : 20 Jun 2024 21:51  
Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

Quant Time: Jun 21 02:49:18 2024  
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TIC: BM046134.D\data.ms

(17) Chrysene-d12

21.064min (+ 0.020) 0.40 ng/u1

response 1152

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 240.00 | 100.00 | 100.00  |
| 120.00 | 23.50  | 153.62# |
| 236.00 | 33.60  | 61.40#  |
| 0.00   | 0.00   | 0.00    |

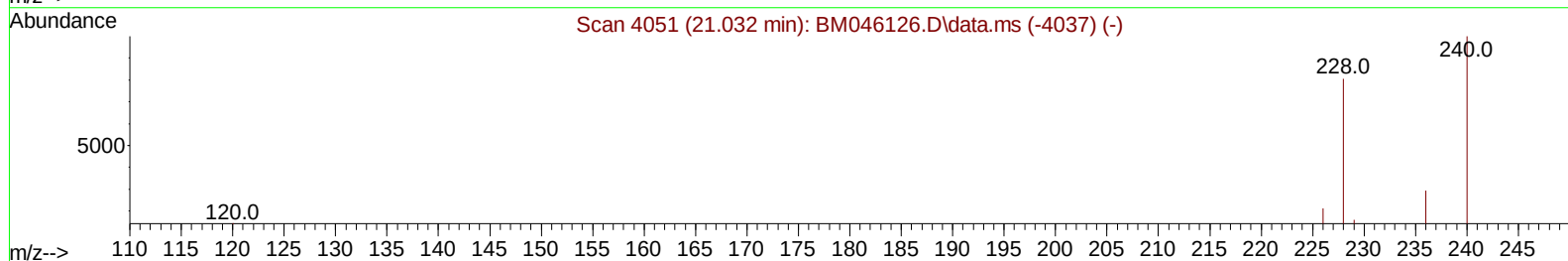
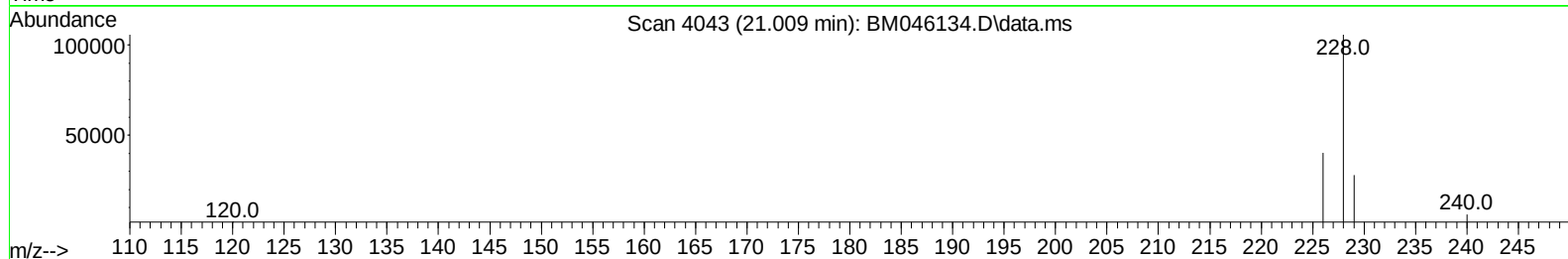
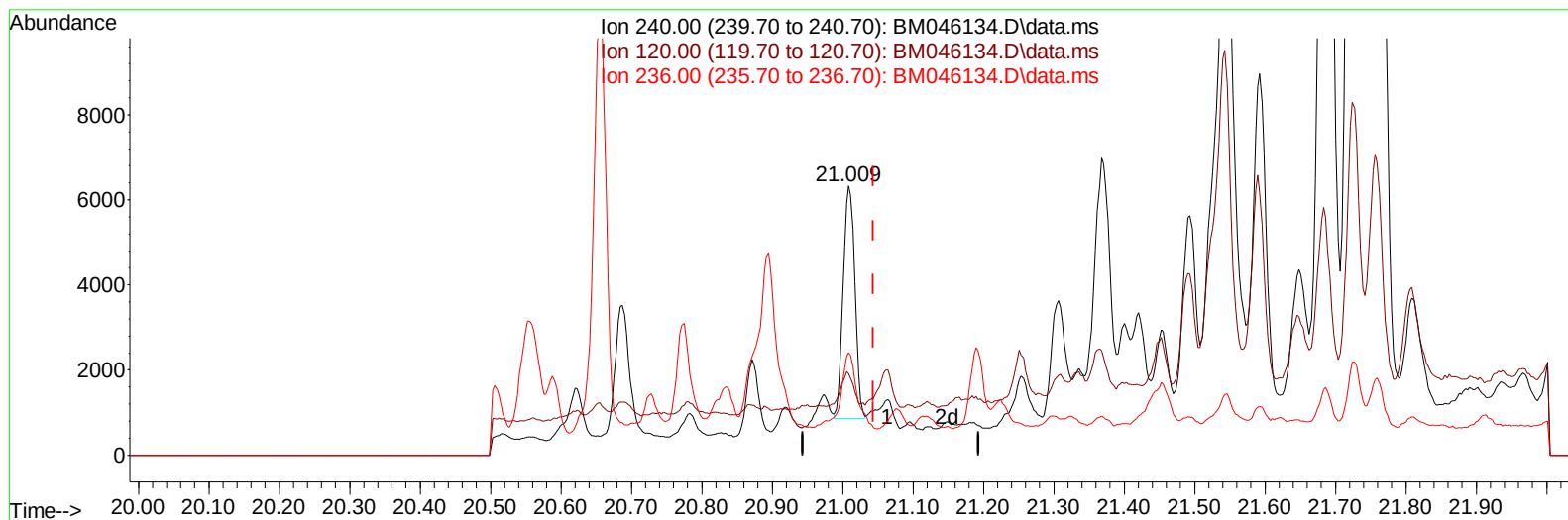
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
Acq On : 20 Jun 2024 21:51  
Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

## Manual IntegrationsAPPROVED

Quant Time: Jun 21 02:49:18 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
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TIC: BM046134.D\data.ms

## (17) Chrysene-d12

21.009min (-0.035) 0.40 ng/ul m

response 6358

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 240.00 | 100.00 | 100.00 |
| 120.00 | 23.50  | 30.34# |
| 236.00 | 33.60  | 38.00  |
| 0.00   | 0.00   | 0.00   |



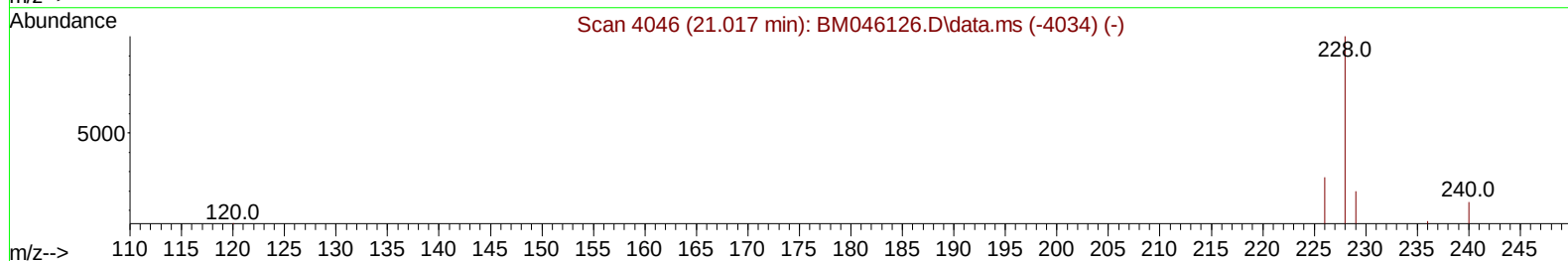
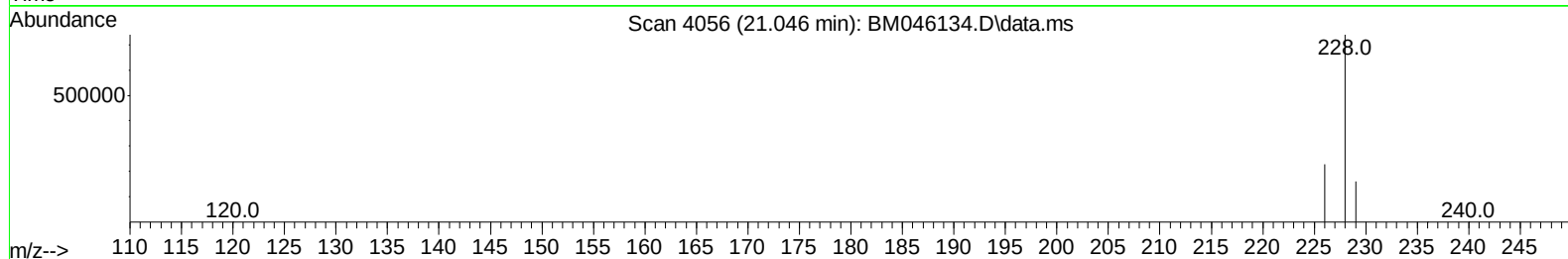
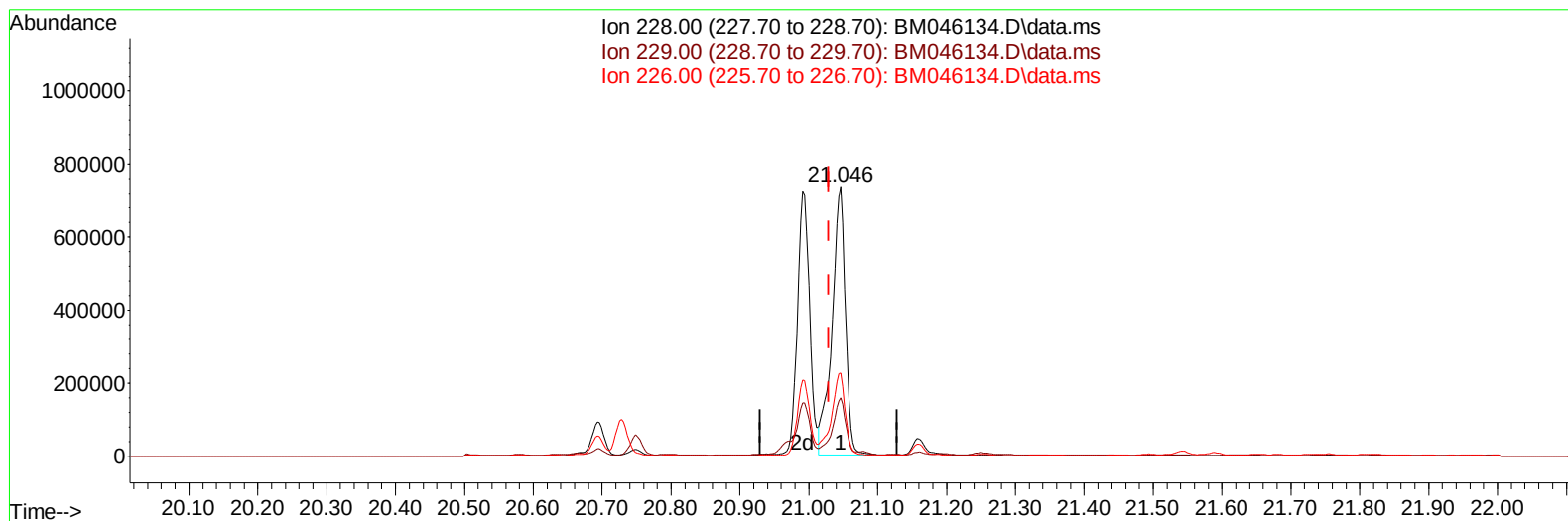
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
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Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

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TIC: BM046134.D\data.ms

(21) Benzo(a)anthracene

21.046min (+ 0.017) 40.54 ng/ul

response 995691

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 229.00 | 20.50  | 21.67  |
| 226.00 | 29.30  | 30.78  |
| 0.00   | 0.00   | 0.00   |

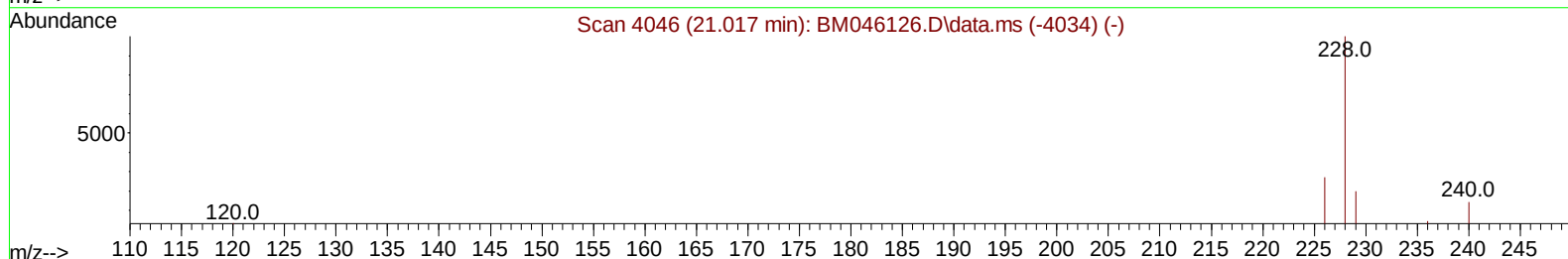
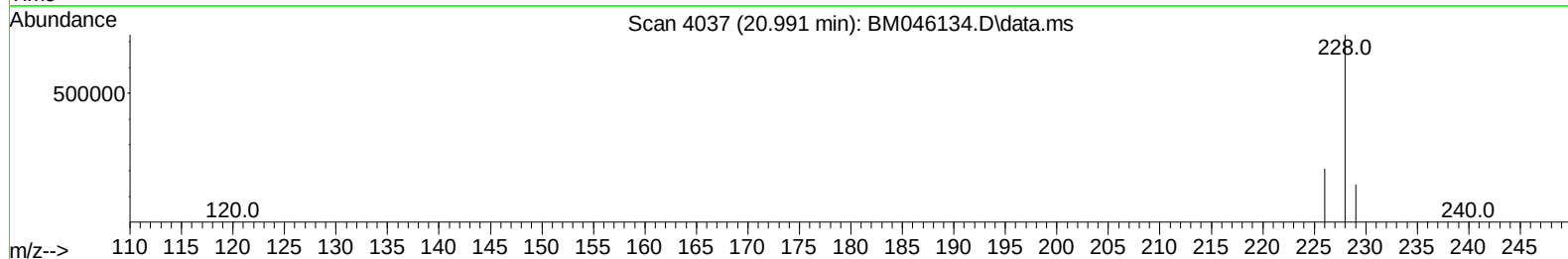
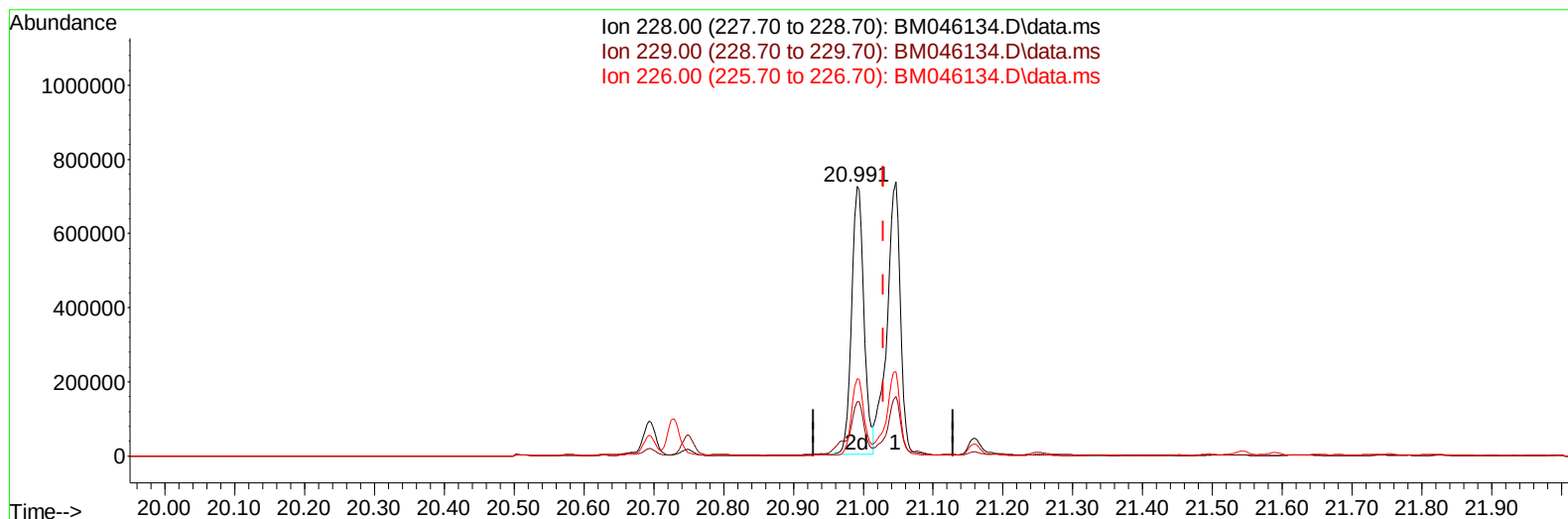
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
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Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

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TIC: BM046134.D\data.ms

(21) Benzo(a)anthracene

20.991min (-0.038) 36.34 ng/ul m

response 892359

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 229.00 | 20.50  | 20.10  |
| 226.00 | 29.30  | 28.74  |
| 0.00   | 0.00   | 0.00   |

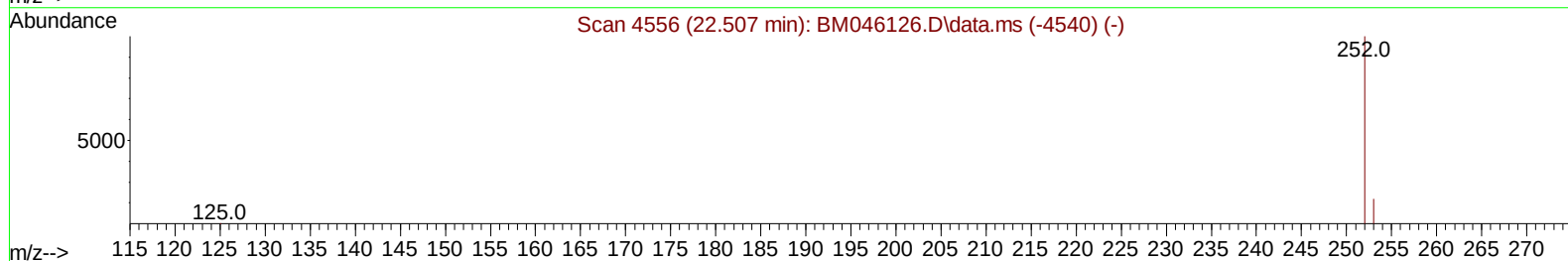
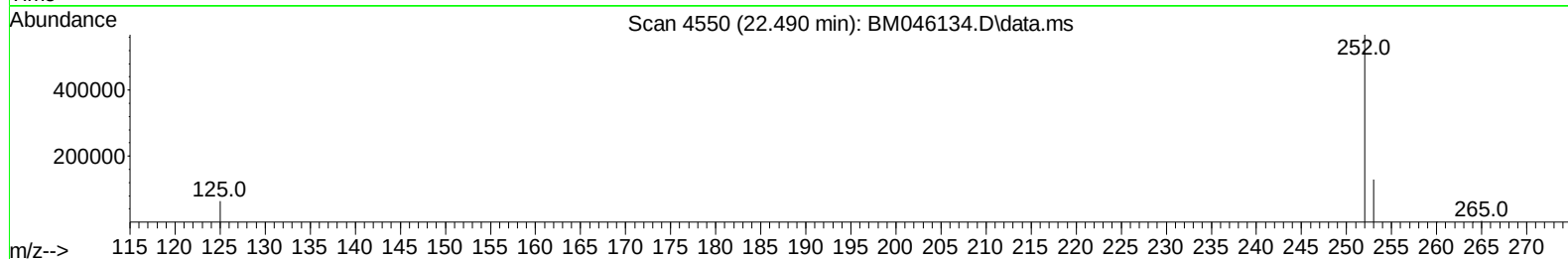
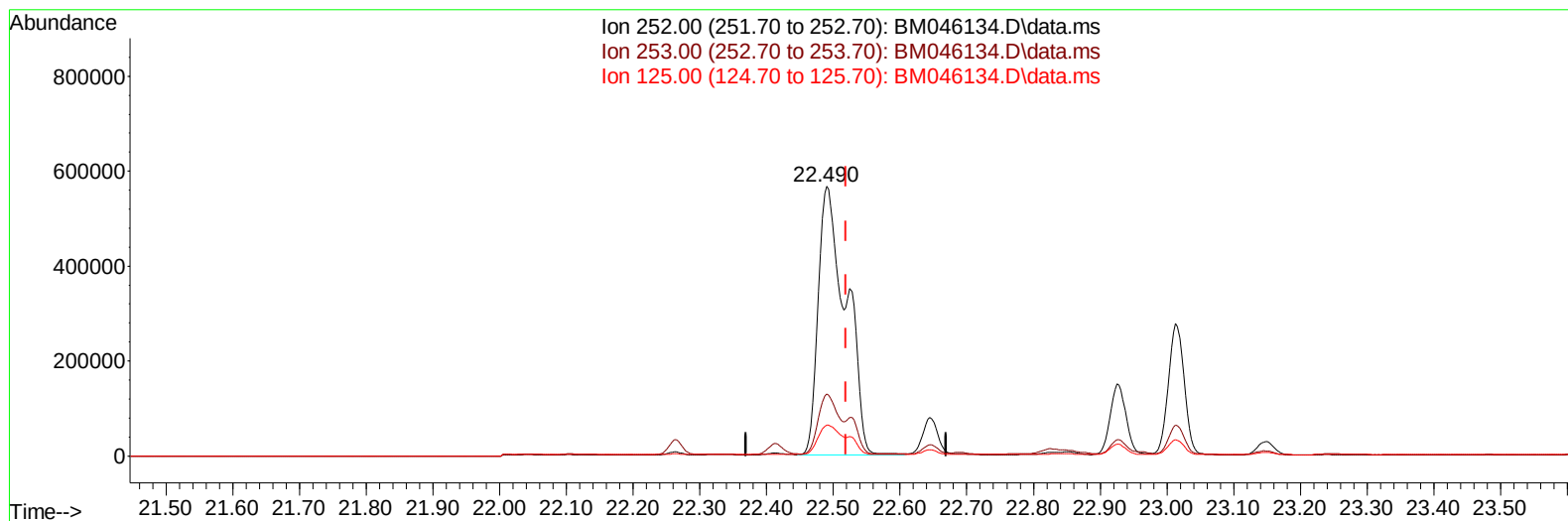
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Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 06/24/2024



TIC: BM046134.D\data.ms

(24) Benzo(b)fluoranthene

22.490min (-0.030) 41.04 ng/u1

response 1619721

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 32.90  | 22.91  |
| 125.00 | 20.10  | 11.39  |
| 0.00   | 0.00   | 0.00   |

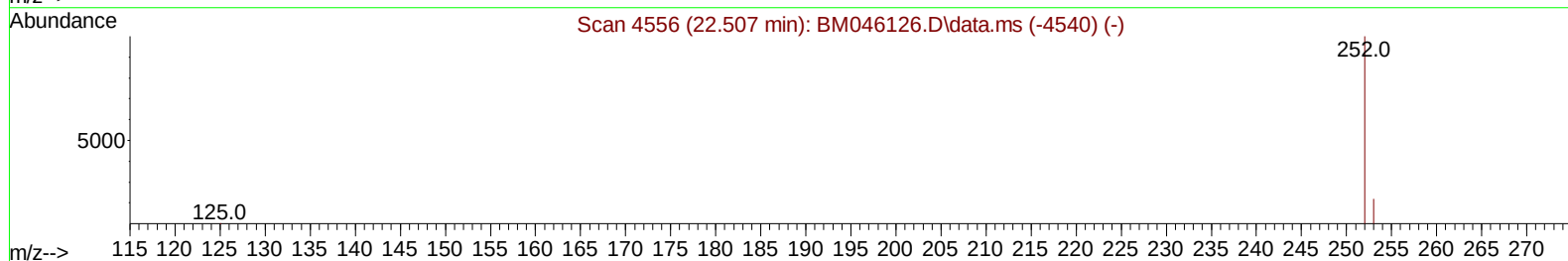
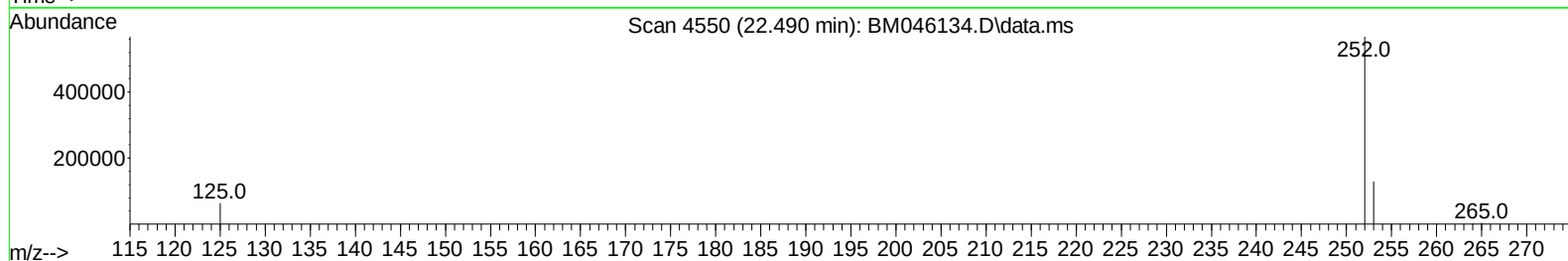
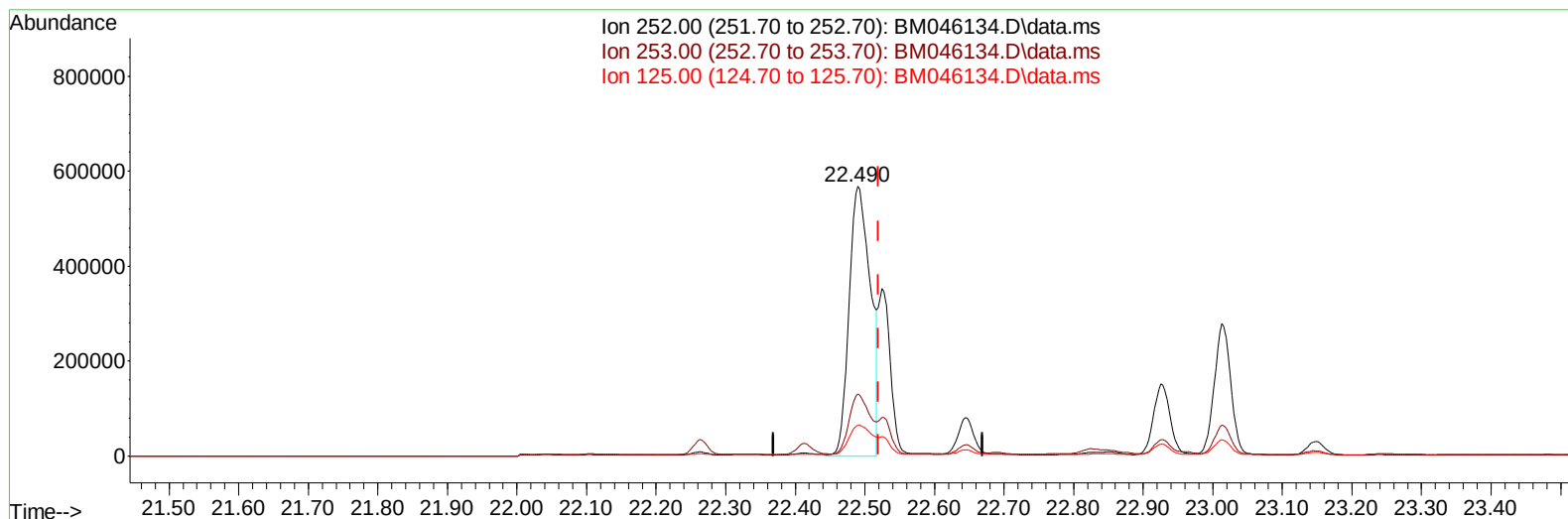
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
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Misc :  
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Instrument :  
BNA\_M  
ClientSampleId :  
A4B23

Manual IntegrationsAPPROVED

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TIC: BM046134.D\data.ms

(24) Benzo(b)fluoranthene

22.490min (-0.030) 30.43 ng/ul m

response 1200830

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 32.90  | 22.91  |
| 125.00 | 20.10  | 11.39  |
| 0.00   | 0.00   | 0.00   |

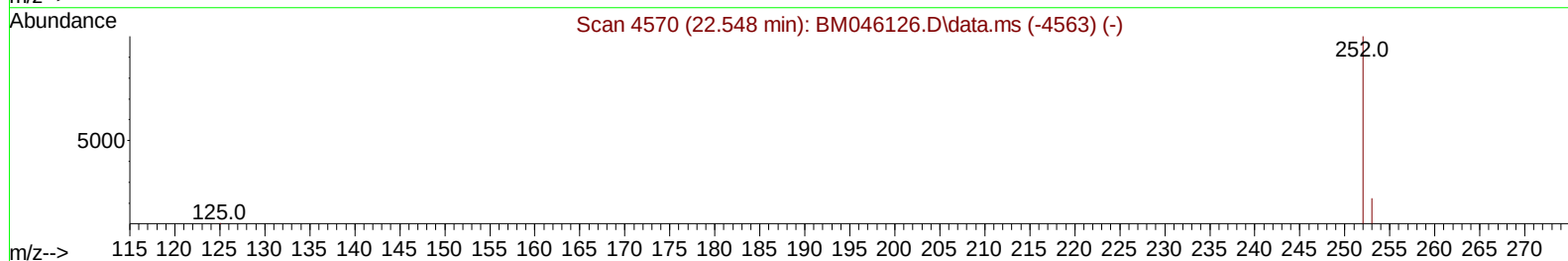
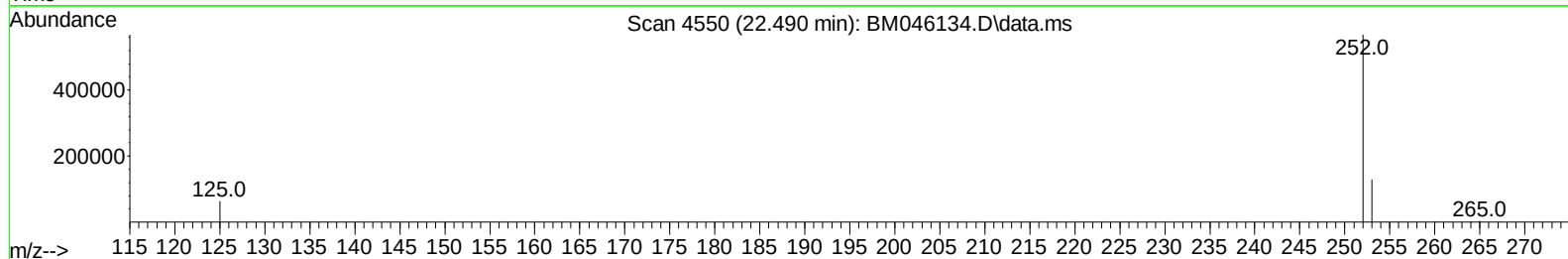
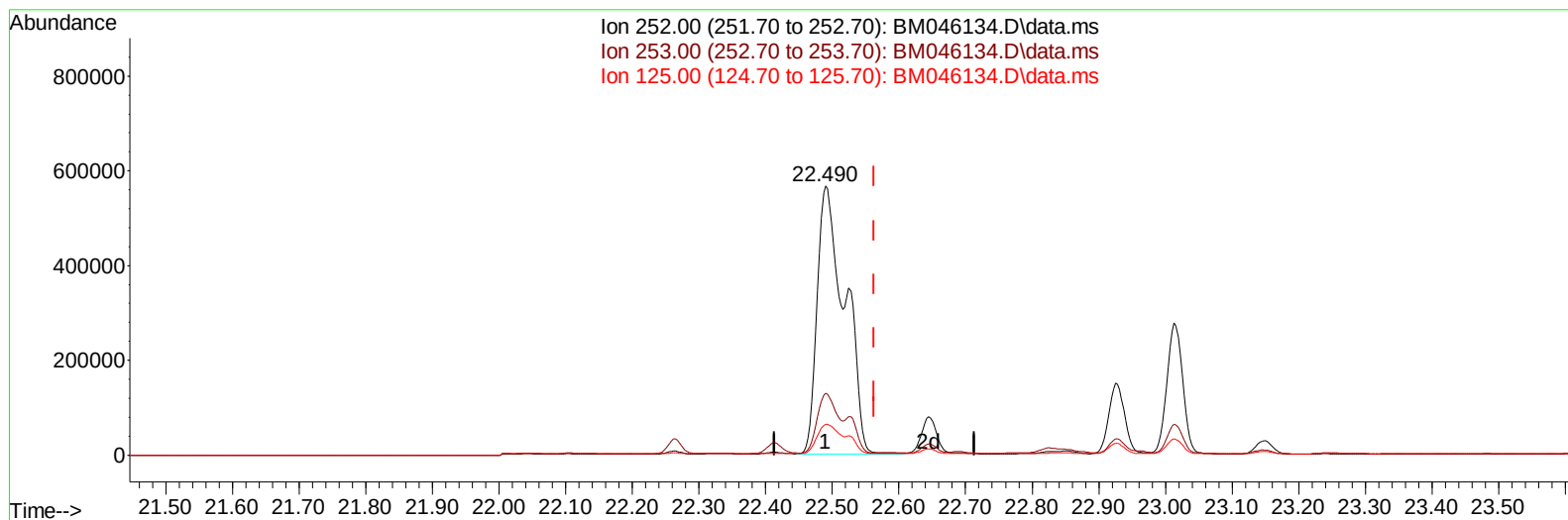
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
 Data File : BM046134.D  
 Acq On : 20 Jun 2024 21:51  
 Operator : MA/JU  
 Sample : P2710-03  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4B23

Manual IntegrationsAPPROVED

Quant Time: Jun 21 02:49:18 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 18 13:58:29 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/21/2024  
 Supervised By :mohammad ahmed 06/24/2024



TIC: BM046134.D\data.ms

(25) Benzo(k)fluoranthene

22.490min (-0.073) 34.52 ng/u1

response 1619721

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 34.00  | 22.91# |
| 125.00 | 20.80  | 11.39# |
| 0.00   | 0.00   | 0.00   |

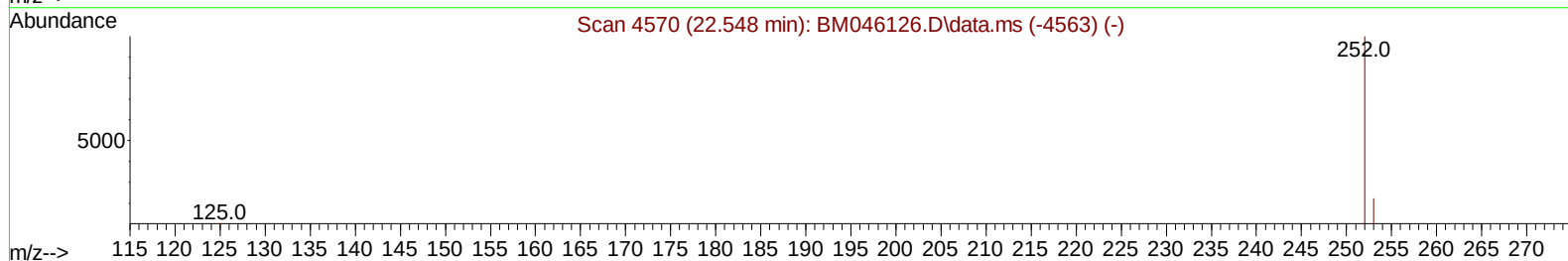
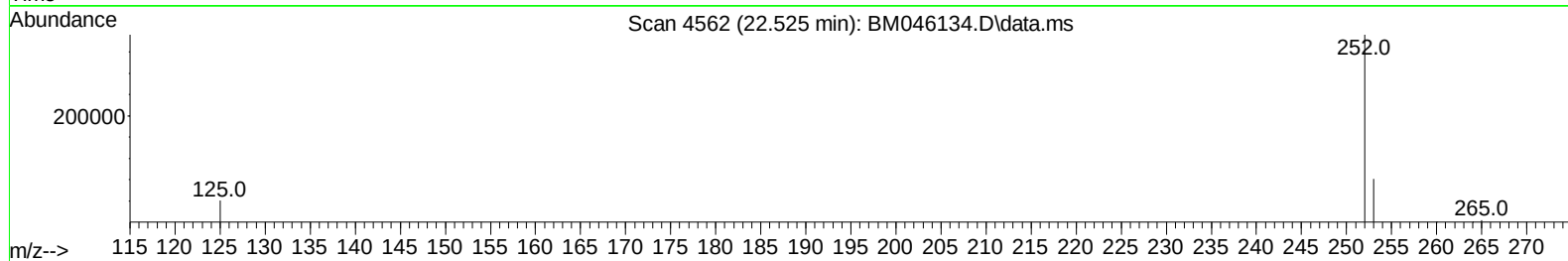
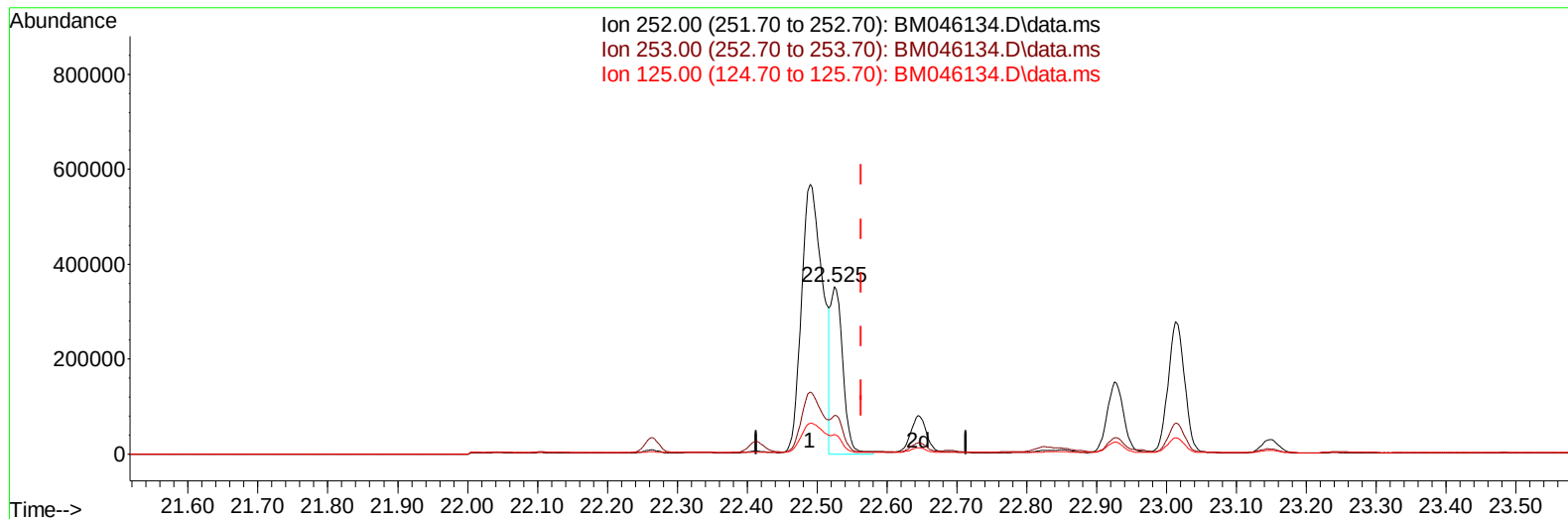
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
Data File : BM046134.D  
Acq On : 20 Jun 2024 21:51  
Operator : MA/JU  
Sample : P2710-03  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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## Manual IntegrationsAPPROVED

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TIC: BM046134.D\data.ms

## (25) Benzo(k)fluoranthene

22.525min (-0.038) 9.38 ng/ul m

response 439882

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 34.00  | 23.05# |
| 125.00 | 20.80  | 11.60# |
| 0.00   | 0.00   | 0.00   |

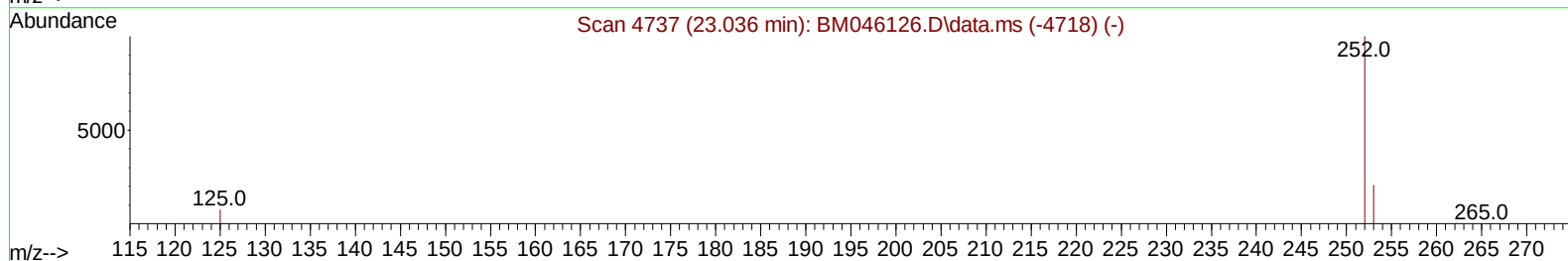
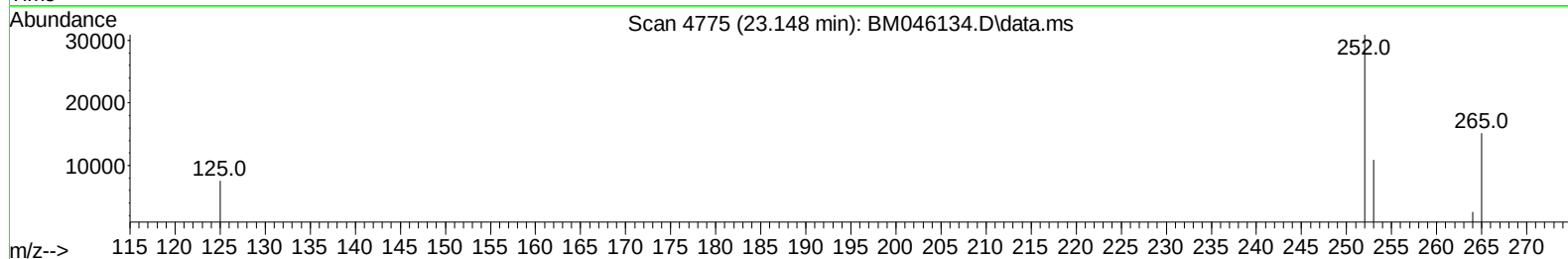
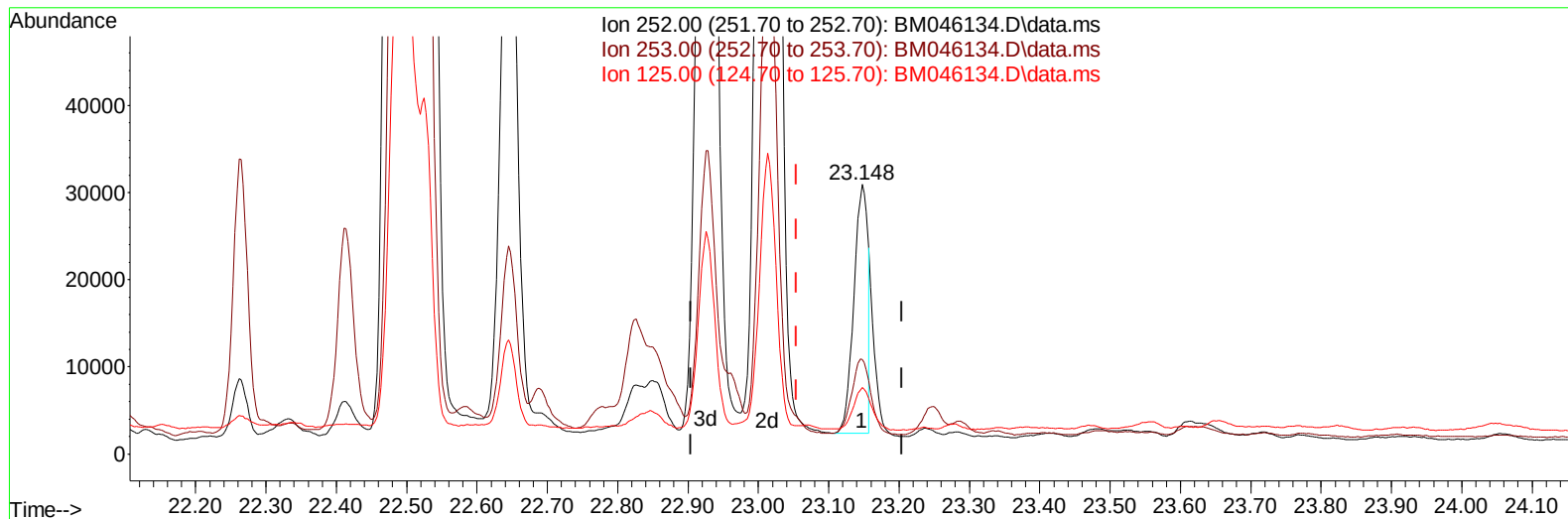
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
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ALS Vial : 22 Sample Multiplier: 1

Instrument :  
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TIC: BM046134.D\data.ms

(26) Benzo(a)pyrene (C)

23.148min (+ 0.093) 1.06 ng/u1

response 38868

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 40.10  | 35.12  |
| 125.00 | 26.50  | 24.59  |
| 0.00   | 0.00   | 0.00   |

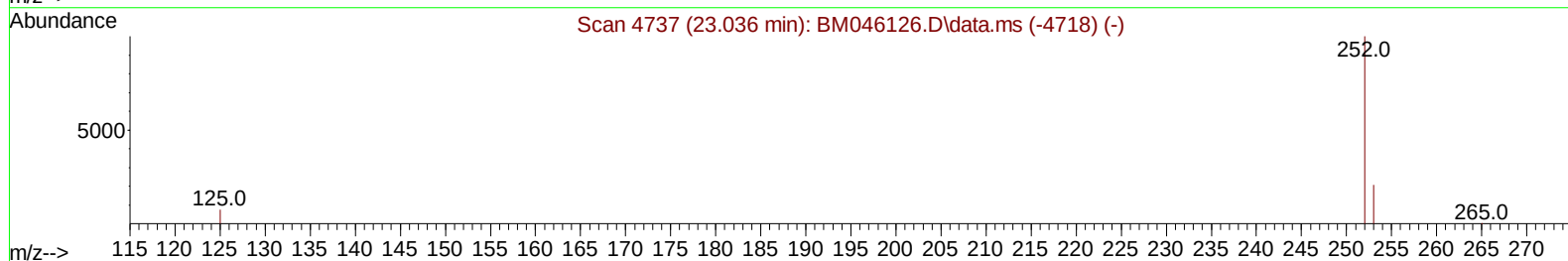
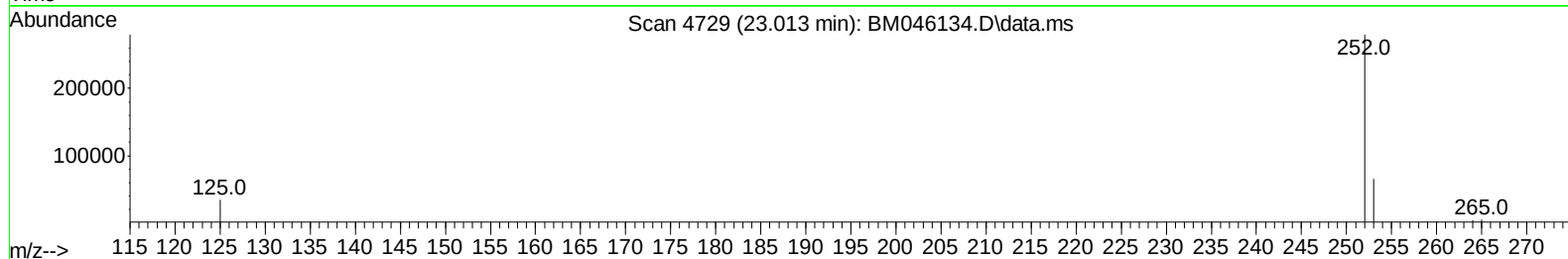
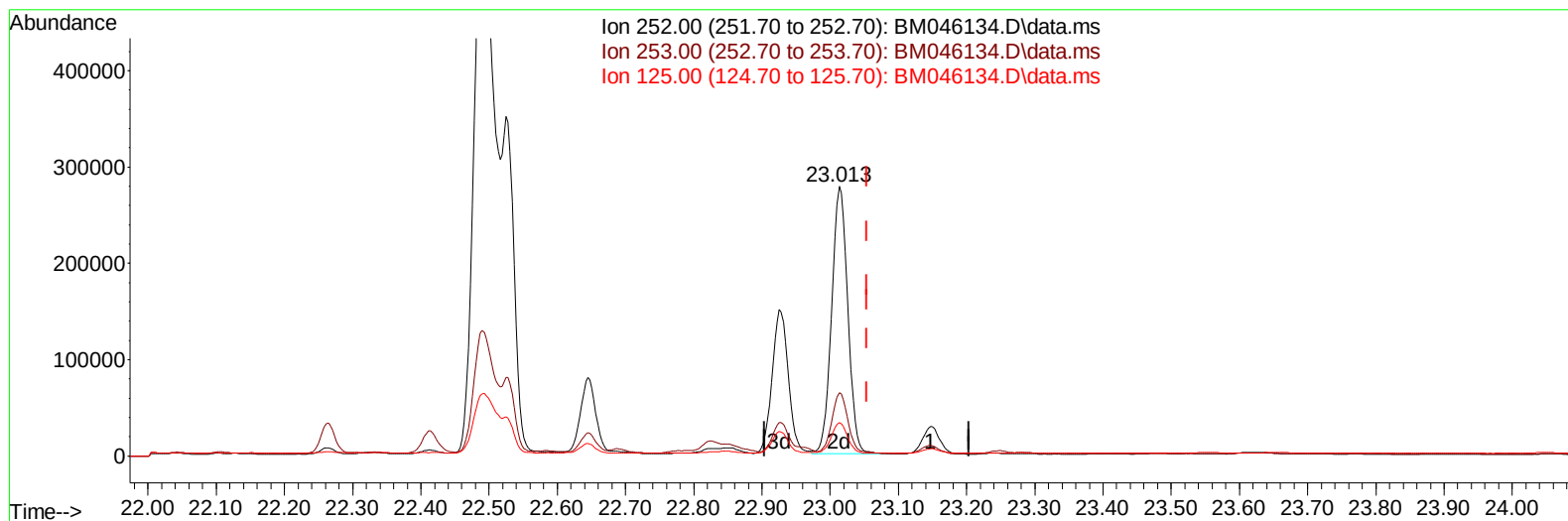
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062024\  
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Instrument :  
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TIC: BM046134.D\data.ms

(26) Benzo(a)pyrene (C)

23.013min (-0.041) 12.48 ng/ul m

response 456425

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 40.10  | 23.37# |
| 125.00 | 26.50  | 12.33# |
| 0.00   | 0.00   | 0.00   |



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 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
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| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.421  | 152  | 2797     | 0.400  | ng/ul  | #-0.04   |
| 4) Naphthalene-d8           | 10.189 | 136  | 8001     | 0.400  | ng/ul  | -0.06    |
| 9) Acenaphthene-d10         | 14.067 | 164  | 4595     | 0.400  | ng/ul  | -0.04    |
| 13) Phenanthrene-d10        | 16.808 | 188  | 9660m    | 0.400  | ng/ul  | -0.05    |
| 17) Chrysene-d12            | 21.009 | 240  | 6358m    | 0.400  | ng/ul  | -0.04    |
| 23) Perylene-d12            | 23.107 | 264  | 10954    | 0.400  | ng/ul  | -0.04    |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.029  | 96   | 16440    | 4.284  | ng/ul  | -0.02    |
| 6) 2-Methylnaphthalene-d10  | 11.800 | 152  | 3753     | 0.349  | ng/ul  | -0.06    |
| 18) Fluoranthene-d10        | 18.844 | 212  | 9360     | 0.492  | ng/ul  | -0.04    |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.238 | 128  | 47290    | 2.119  | ng/ul# | 92       |
| 7) 2-Methylnaphthalene      | 11.871 | 142  | 29073    | 2.315  | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.091 | 142  | 23179    | 1.682  | ng/ul  | 100      |
| 10) Acenaphthylene          | 13.785 | 152  | 32401    | 1.487  | ng/ul  | 97       |
| 11) Acenaphthene            | 14.127 | 153  | 91474    | 5.814  | ng/ul  | 97       |
| 12) Fluorene                | 15.122 | 166  | 69201    | 4.099  | ng/ul  | 99       |
| 15) Phenanthrene            | 16.850 | 178  | 1687080m | 62.162 | ng/ul  |          |
| 16) Anthracene              | 16.943 | 178  | 199133m  | 9.852  | ng/ul  |          |
| 19) Fluoranthene            | 18.877 | 202  | 2314345  | 84.069 | ng/ul  | 96       |
| 20) Pyrene                  | 19.239 | 202  | 1694613  | 56.921 | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 20.991 | 228  | 892359m  | 36.336 | ng/ul  |          |
| 22) Chrysene                | 21.046 | 228  | 995691   | 31.769 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.490 | 252  | 1200830m | 30.428 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.525 | 252  | 439882m  | 9.375  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.013 | 252  | 456425m  | 12.481 | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.148 | 276  | 414613   | 6.927  | ng/ul# | 93       |
| 28) Dibenzo(a,h)anthracene  | 25.152 | 278  | 142641   | 3.201  | ng/ul  | 91       |
| 29) Benzo(g,h,i)perylene    | 25.772 | 276  | 57705    | 1.124  | ng/ul  | 97       |
| -----                       |        |      |          |        |        |          |

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

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