

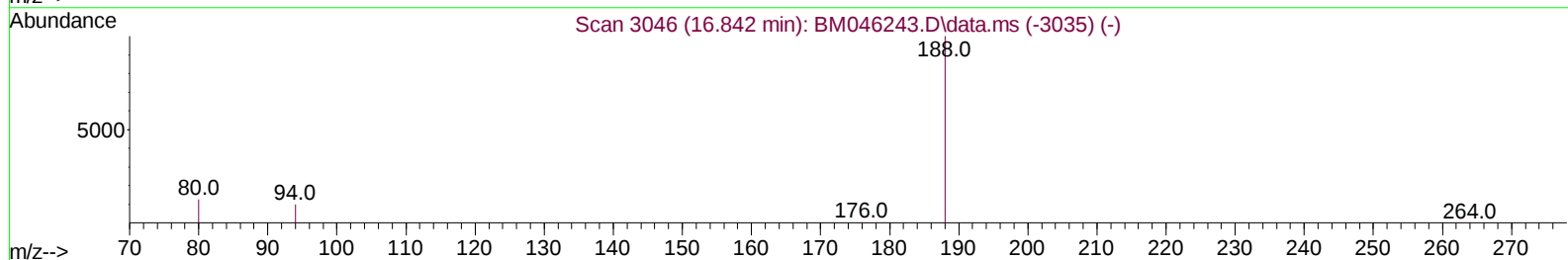
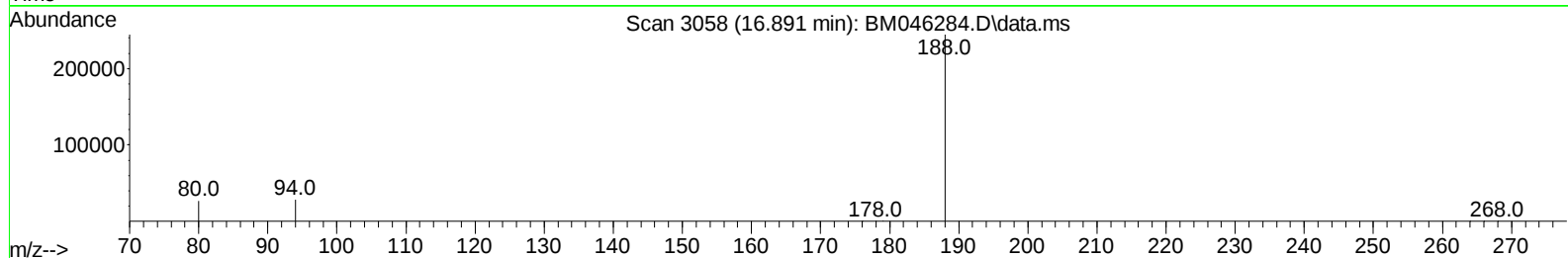
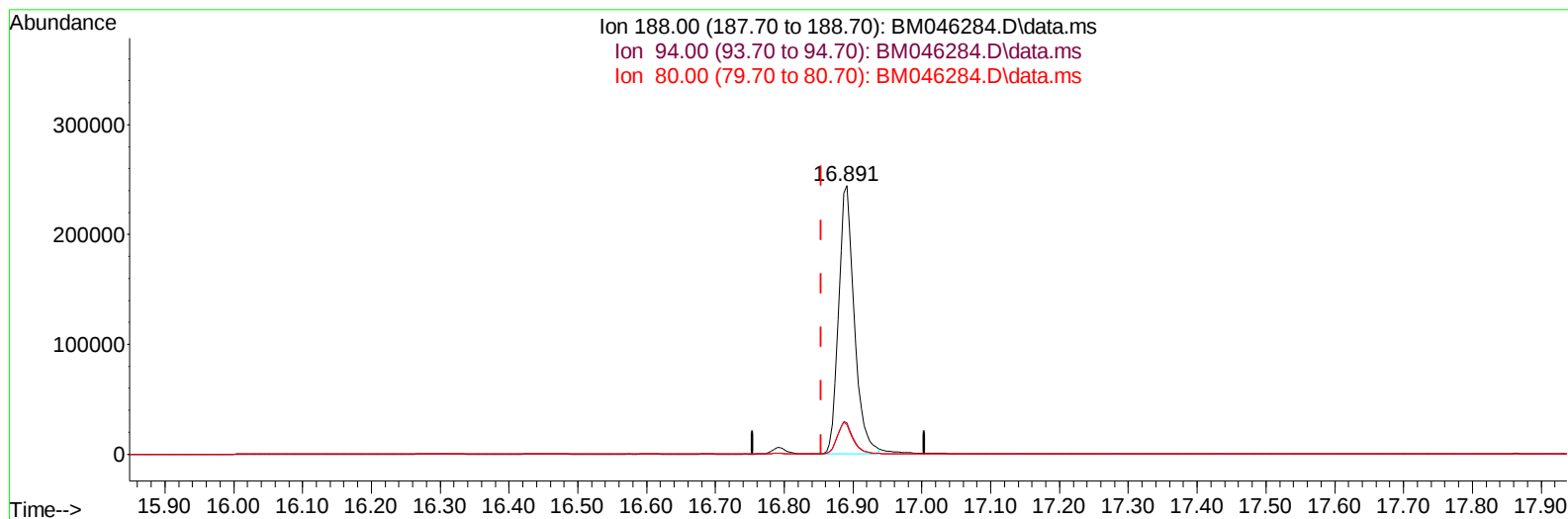
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 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 25 08:04:59 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(13) Phenanthrene-d10 (I)

16.891min (+ 0.037) 0.40 ng/u1

response 386656

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 13.80  | 11.62  |
| 80.00  | 15.20  | 11.02# |
| 0.00   | 0.00   | 0.00   |

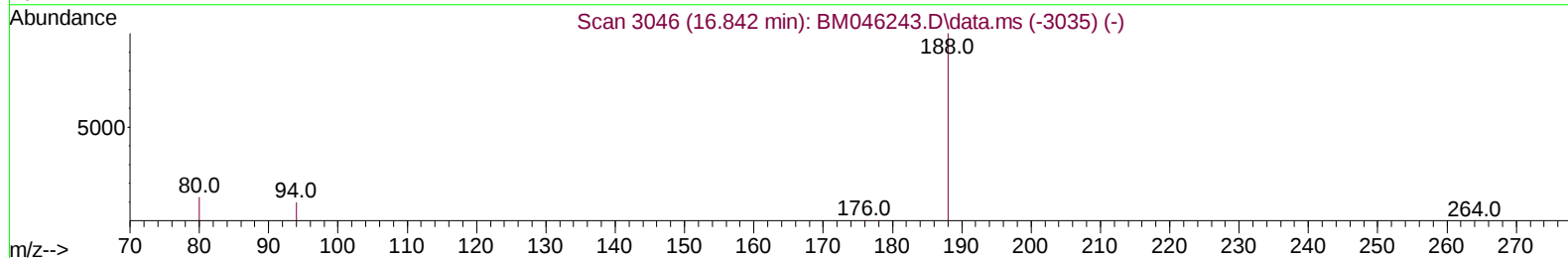
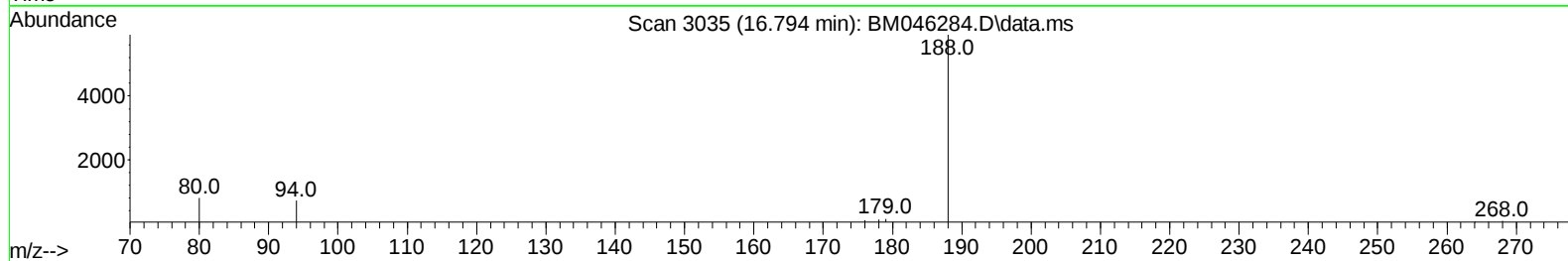
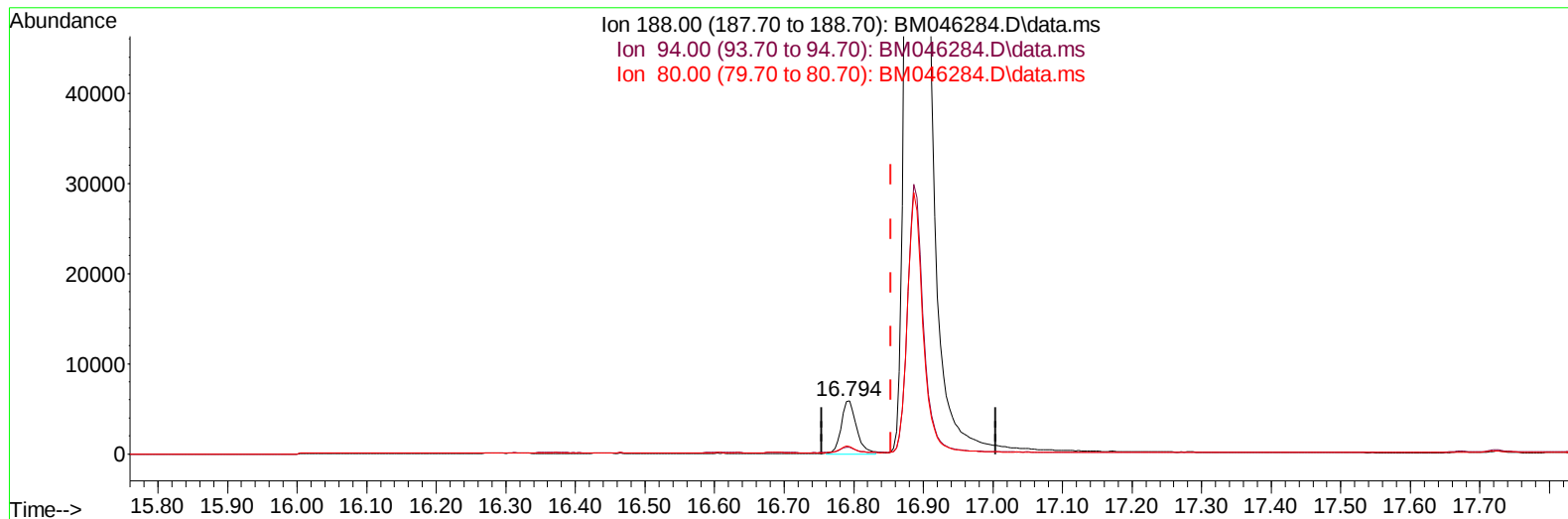
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061824.M  
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QLast Update : Tue Jun 25 08:04:59 2024  
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Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

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

**16.794min (-0.060) 0.40 ng/ul m**

**response 8941**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 13.80  | 12.14  |
| 80.00  | 15.20  | 13.49  |
| 0.00   | 0.00   | 0.00   |

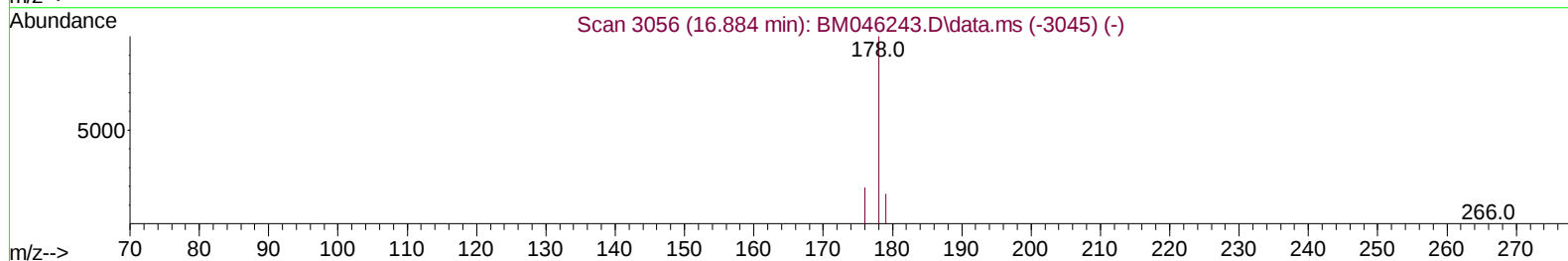
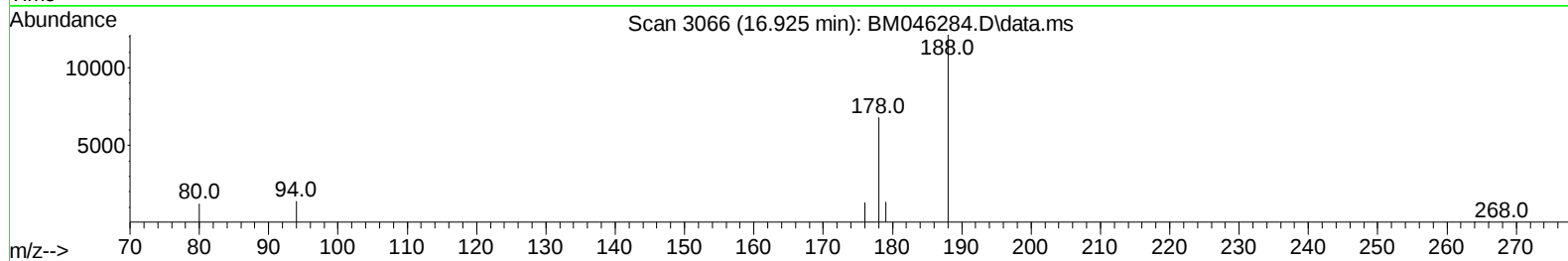
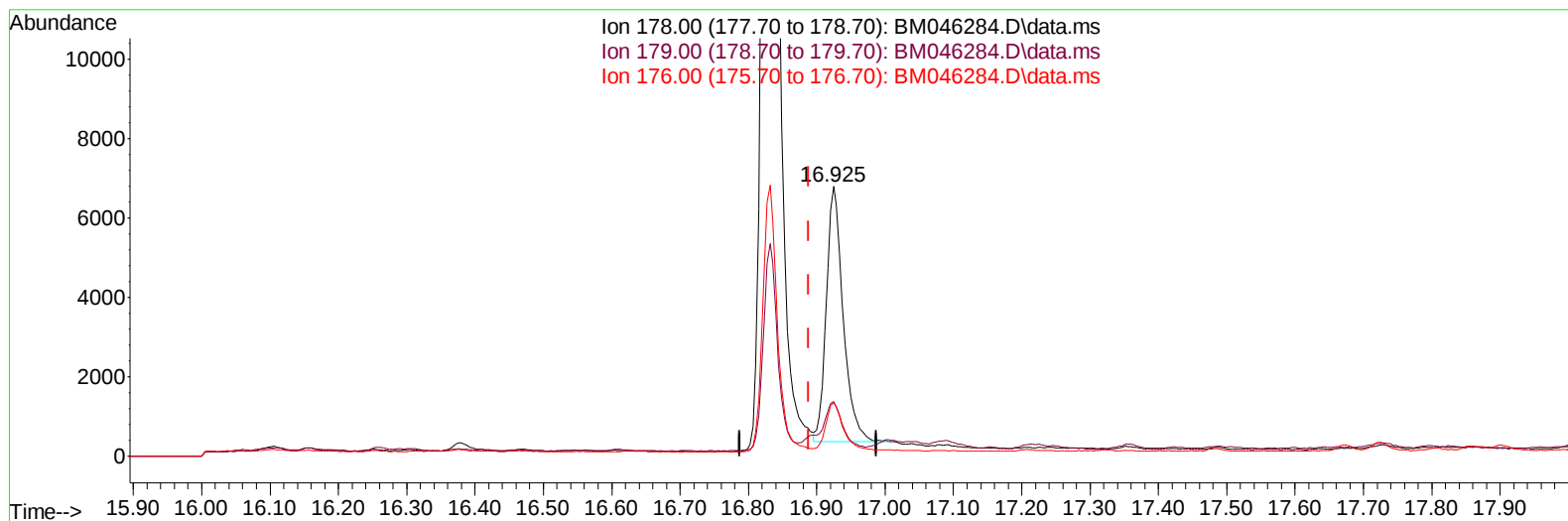
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 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 25 08:04:59 2024  
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Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(15) Phenanthrene

16.925min (+ 0.037) 0.44 ng/u1

response 11038

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.70  | 20.17  |
| 176.00 | 21.40  | 19.59  |
| 0.00   | 0.00   | 0.00   |

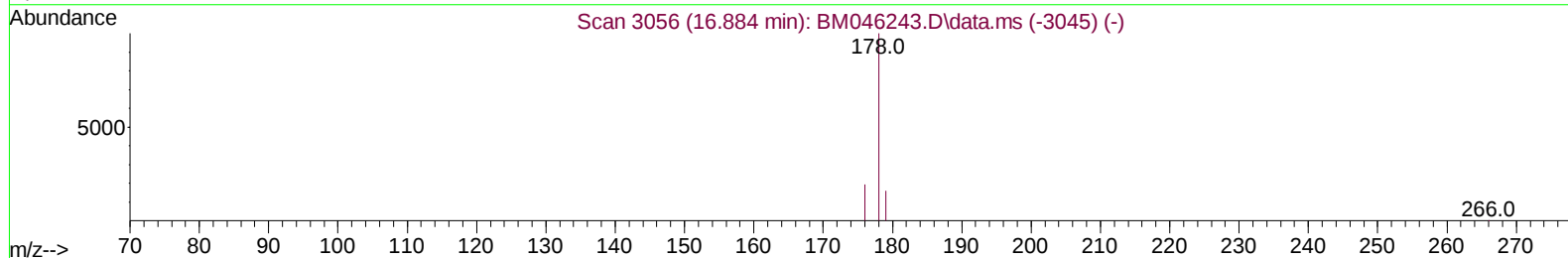
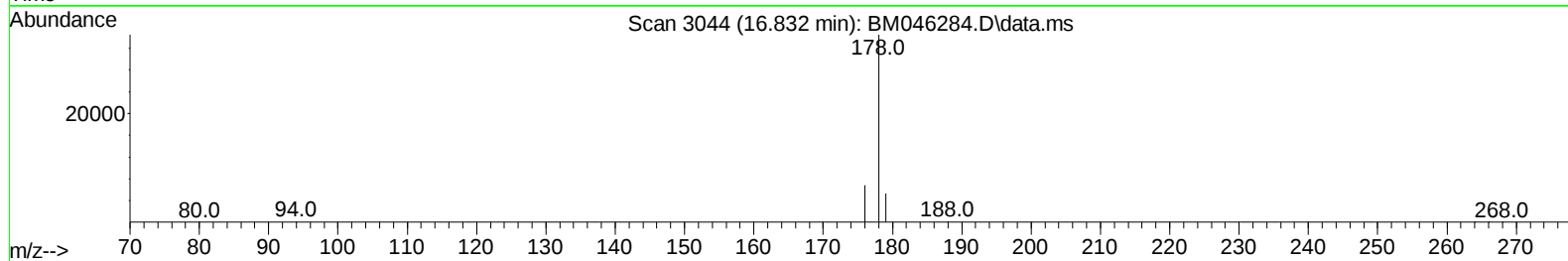
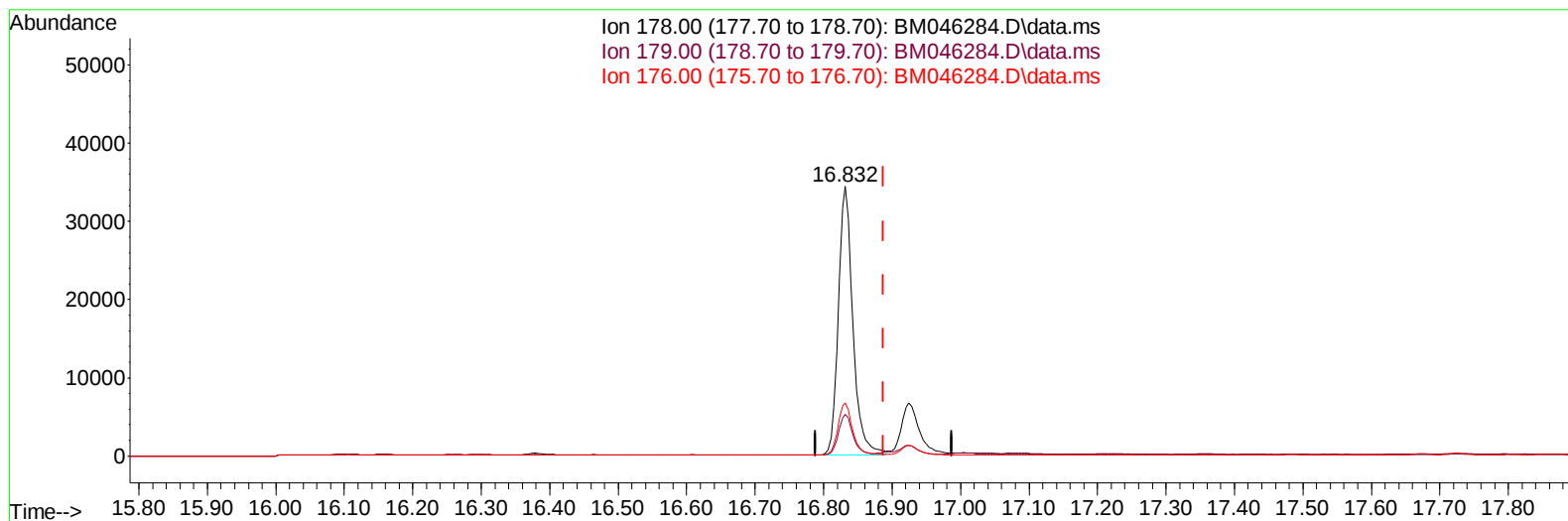
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 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 25 08:04:59 2024  
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Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(15) Phenanthrene

16.832min (-0.056) 2.03 ng/u1 m

response 51062

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 17.70  | 15.54  |
| 176.00 | 21.40  | 19.81  |
| 0.00   | 0.00   | 0.00   |

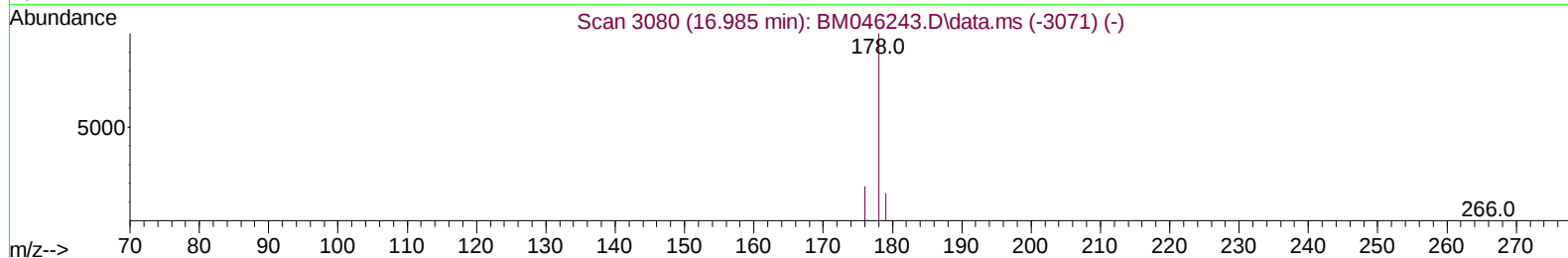
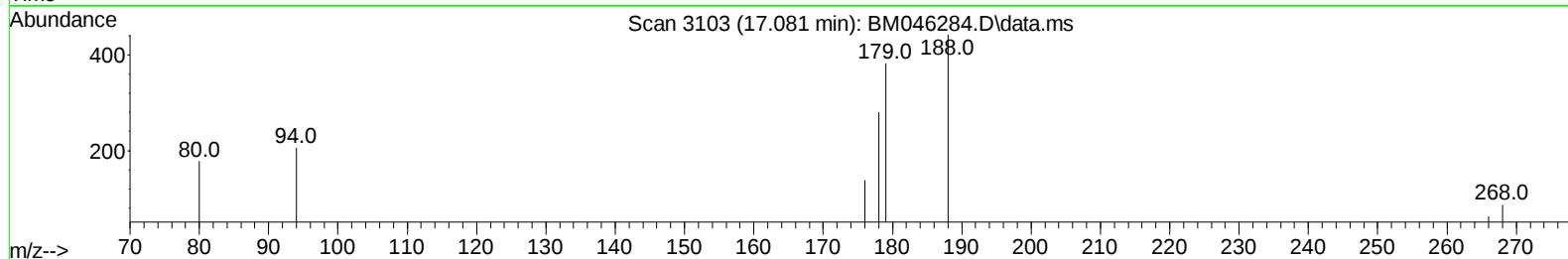
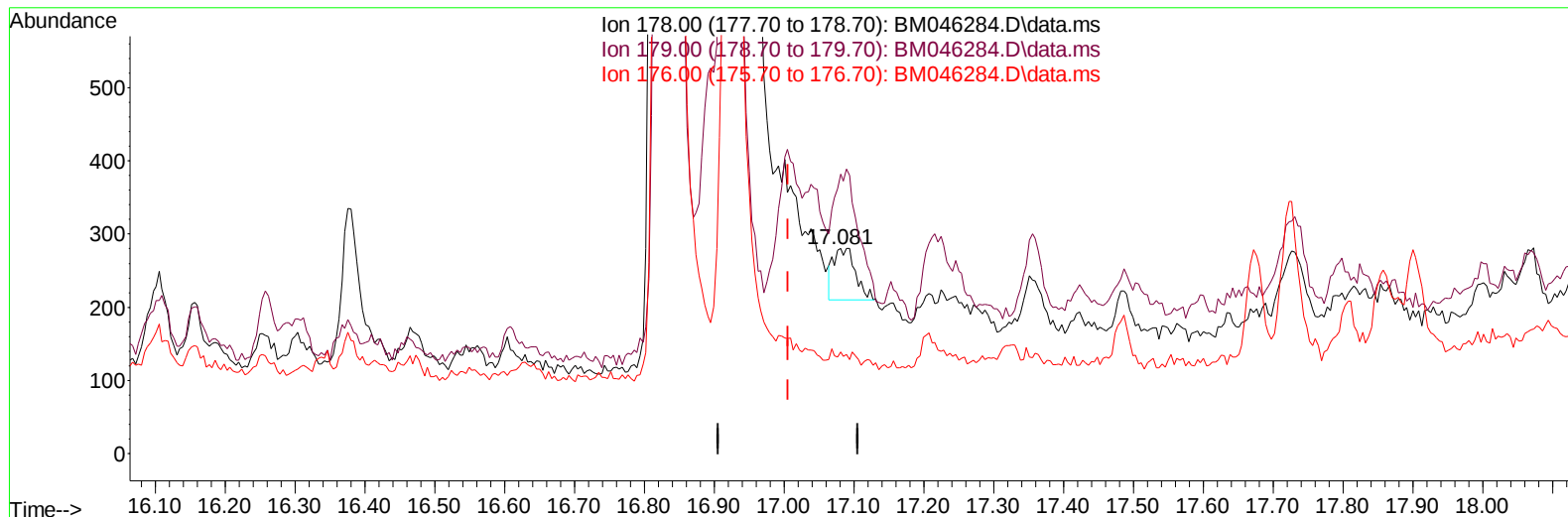
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 2024  
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QLast Update : Tue Jun 25 08:04:59 2024  
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Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(16) Anthracene

17.081min (+ 0.075) 0.01 ng/u1

response 154

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 178.00 | 100.00 | 100.00  |
| 179.00 | 18.60  | 136.43# |
| 176.00 | 21.20  | 49.64#  |
| 0.00   | 0.00   | 0.00    |

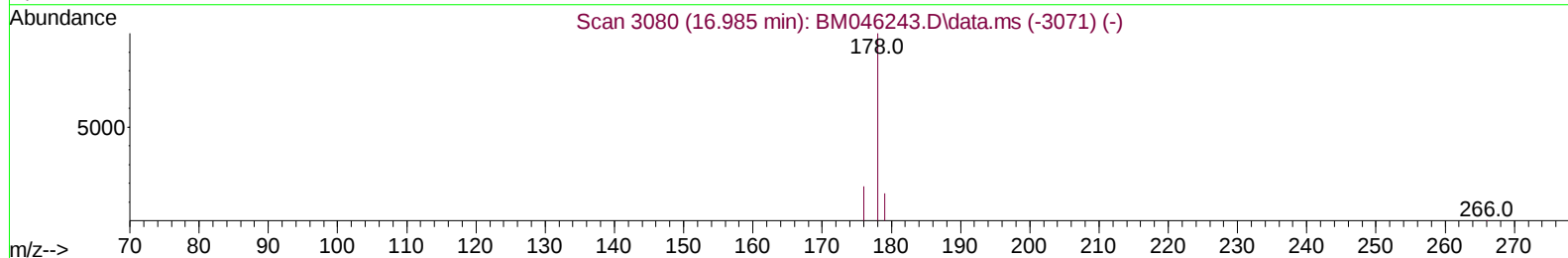
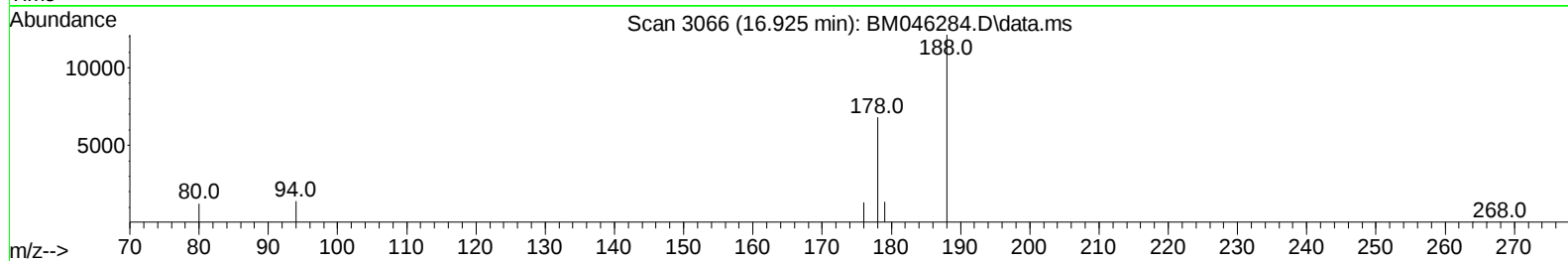
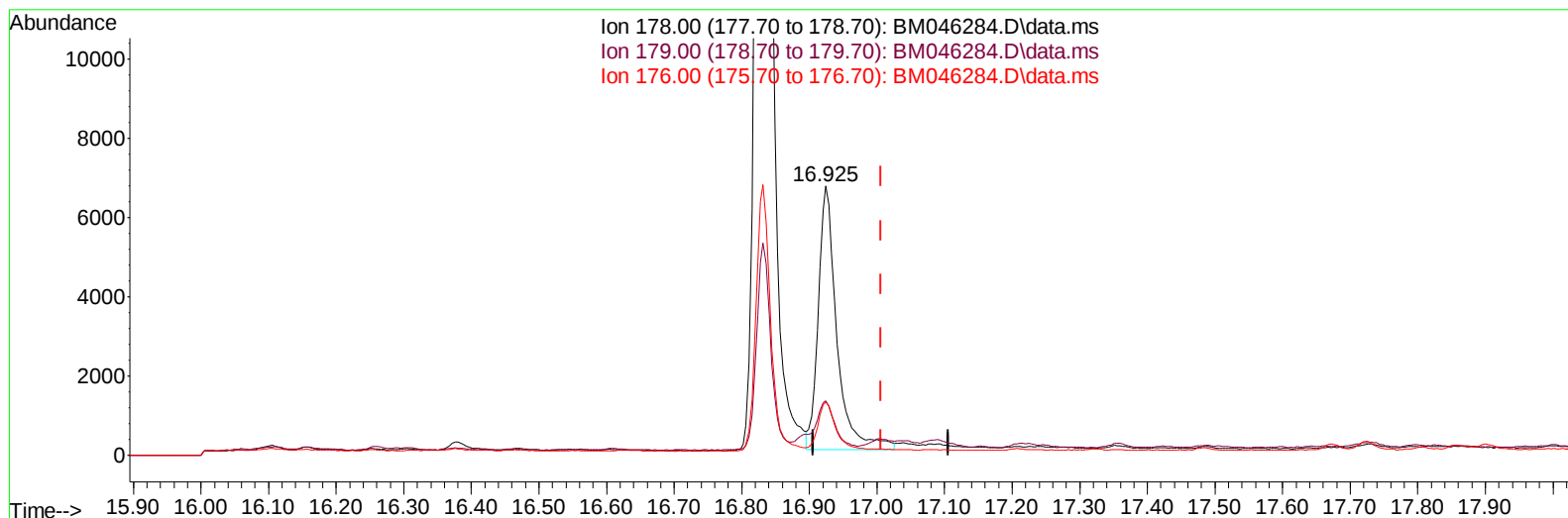
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 2024  
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QLast Update : Tue Jun 25 08:04:59 2024  
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Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(16) Anthracene

16.925min (-0.082) 0.68 ng/u1 m

response 12669

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 18.60  | 20.17  |
| 176.00 | 21.20  | 19.59  |
| 0.00   | 0.00   | 0.00   |

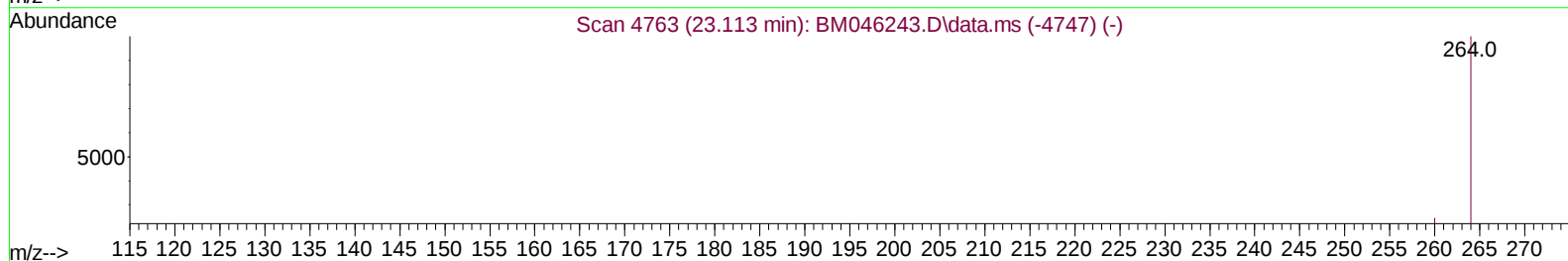
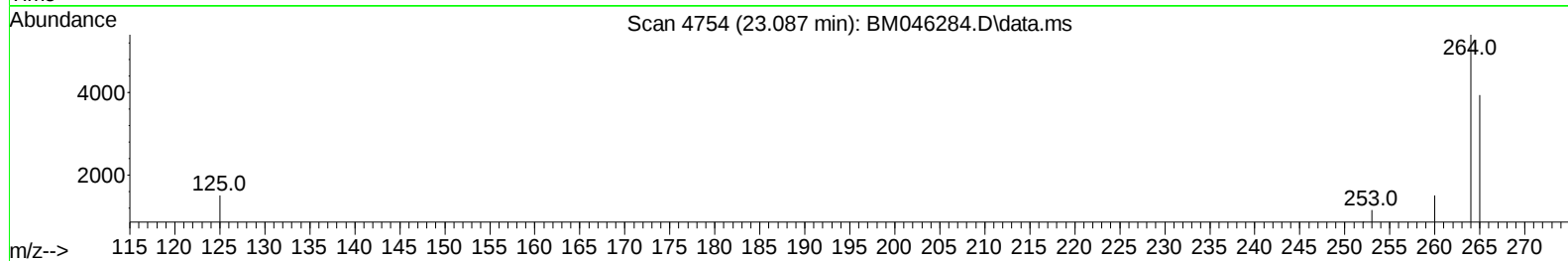
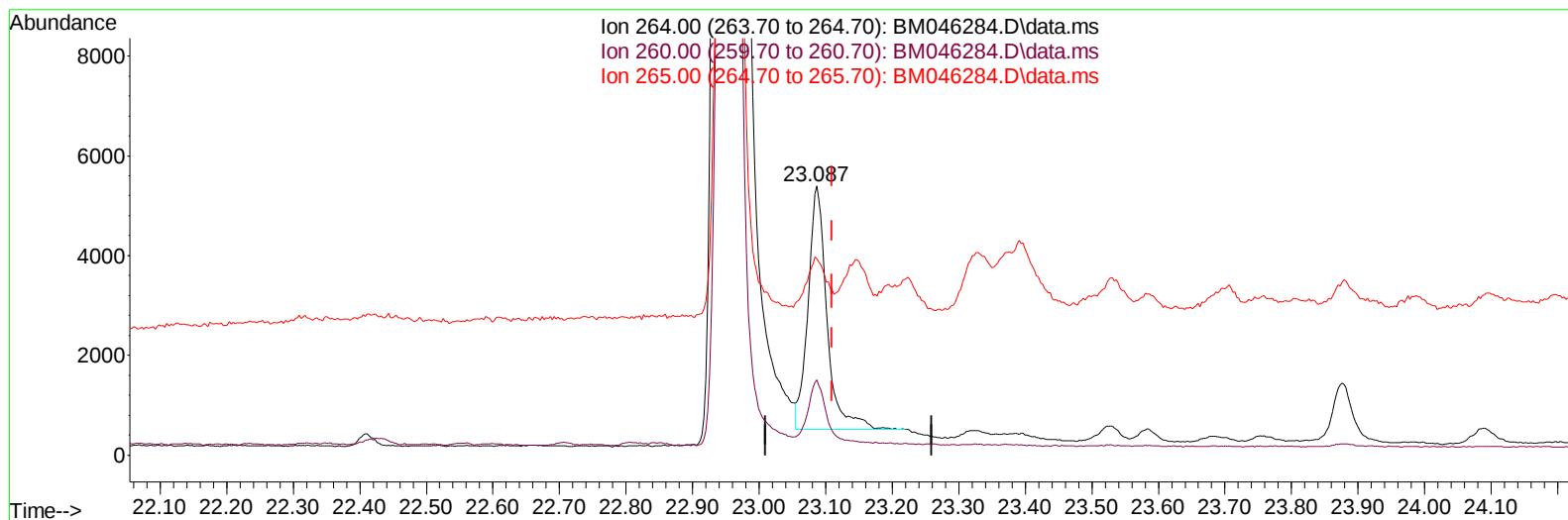
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 2024  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 25 08:04:59 2024  
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Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(23) Perylene-d12 (I)

23.087min (-0.023) 0.40 ng/u1

response 9750

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 28.20  | 27.99  |
| 265.00 | 110.60 | 72.94# |
| 0.00   | 0.00   | 0.00   |

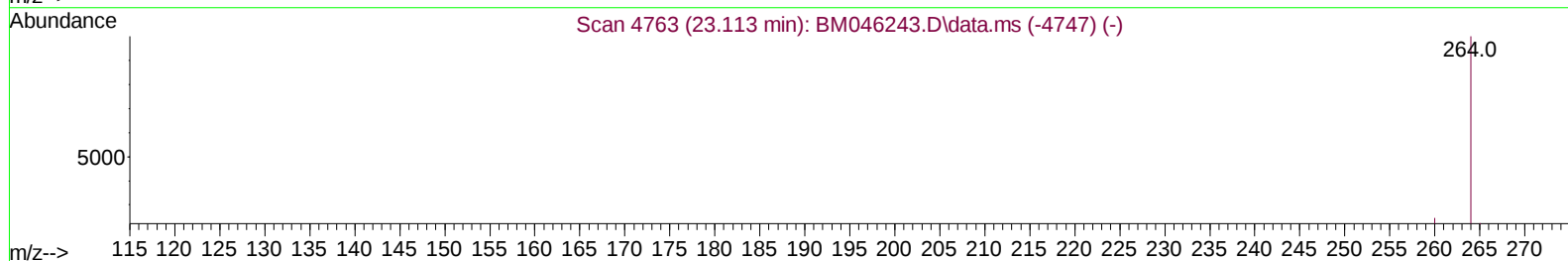
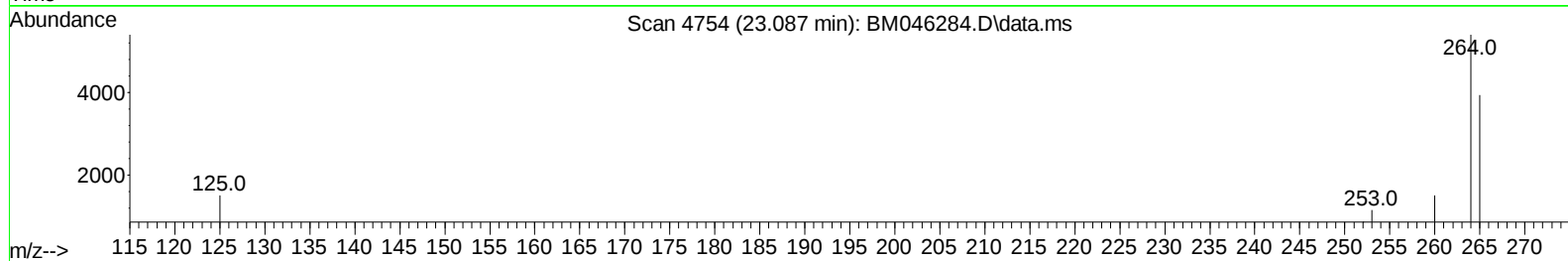
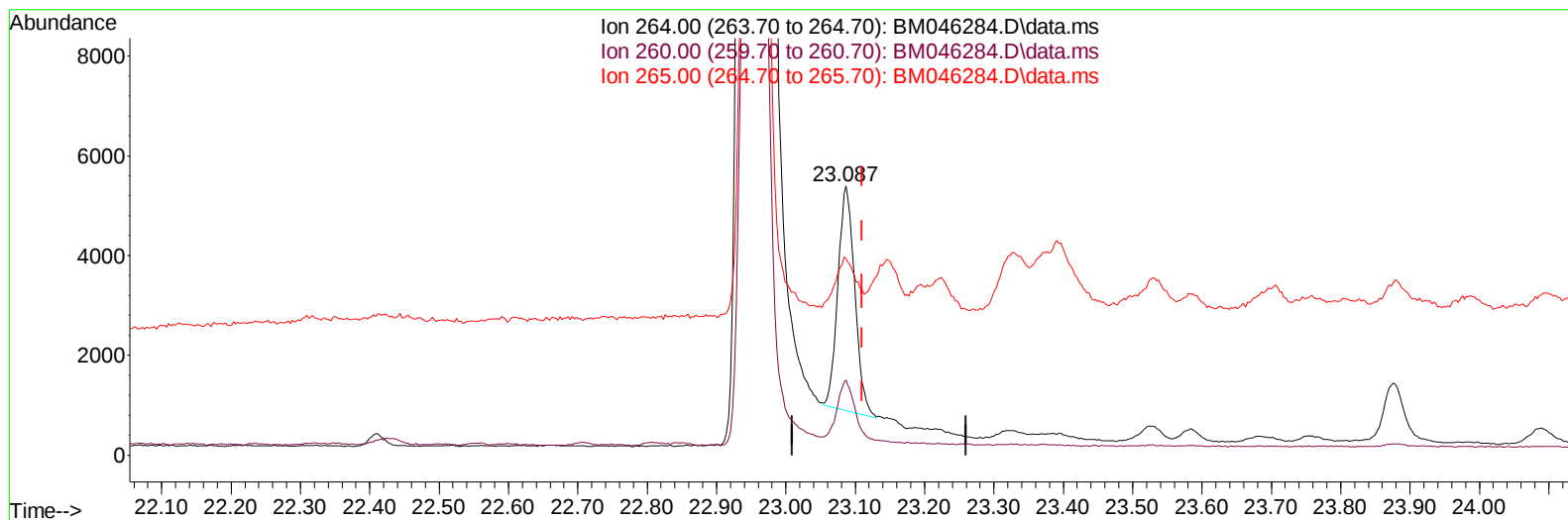
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 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 25 08:04:59 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/26/2024  
Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(23) Perylene-d12 (I)

23.087min (-0.023) 0.40 ng/ul m

response 7579

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 28.20  | 27.99  |
| 265.00 | 110.60 | 72.94# |
| 0.00   | 0.00   | 0.00   |

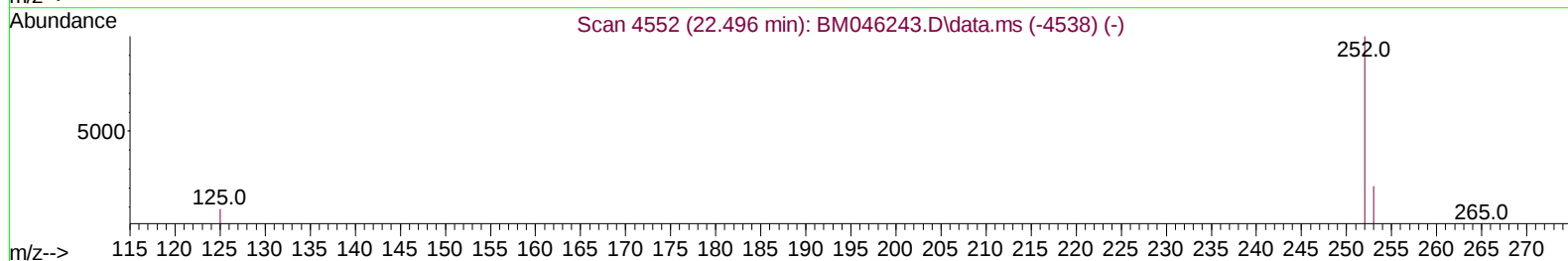
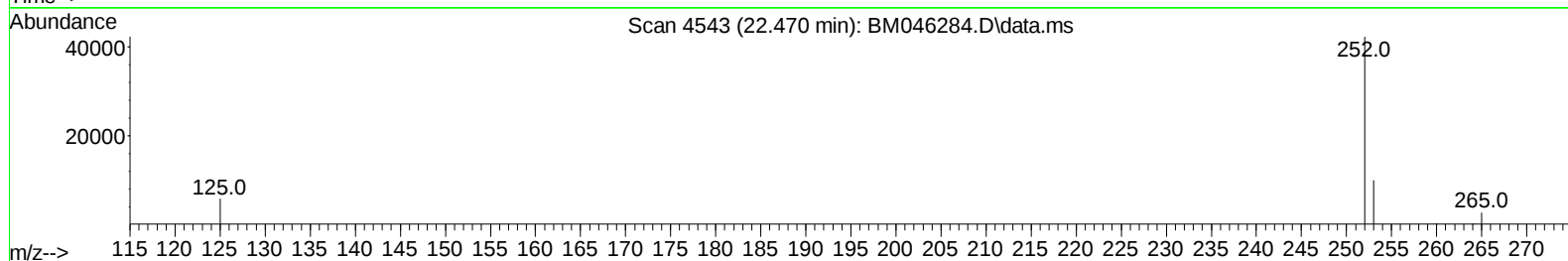
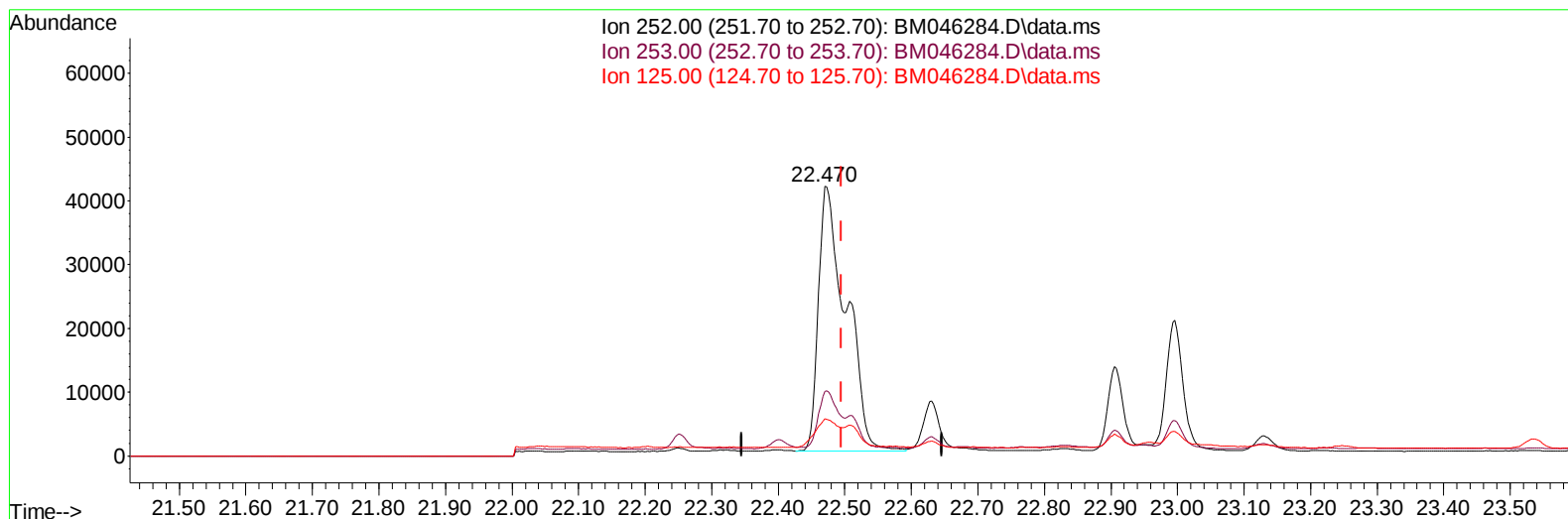
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
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Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 2024  
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TIC: BM046284.D\data.ms

(24) Benzo(b)fluoranthene

22.470min (-0.026) 4.36 ng/u1

response 119073

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 32.90  | 23.88  |
| 125.00 | 20.10  | 13.79  |
| 0.00   | 0.00   | 0.00   |

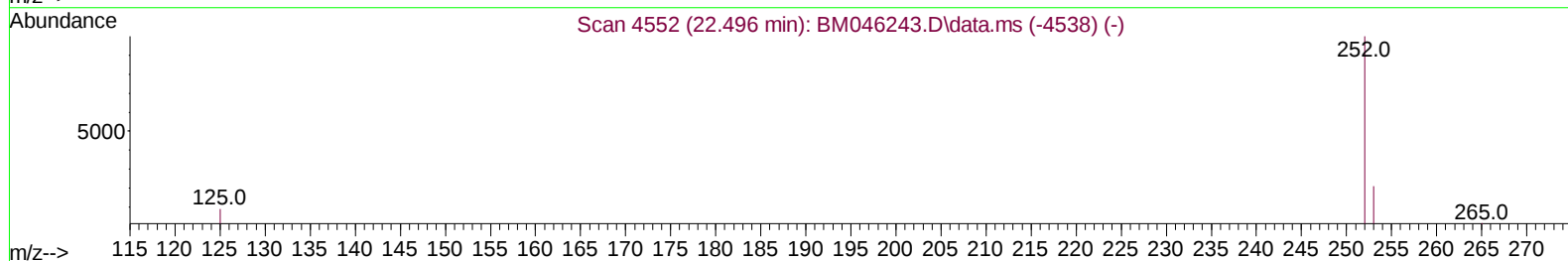
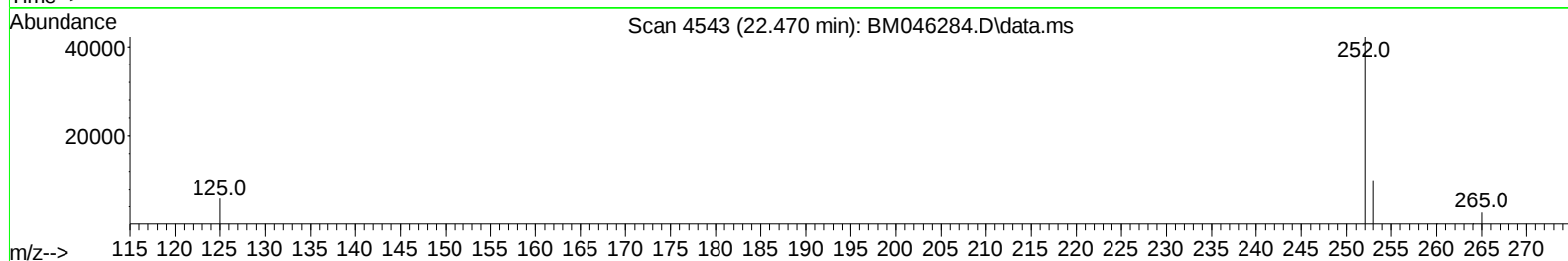
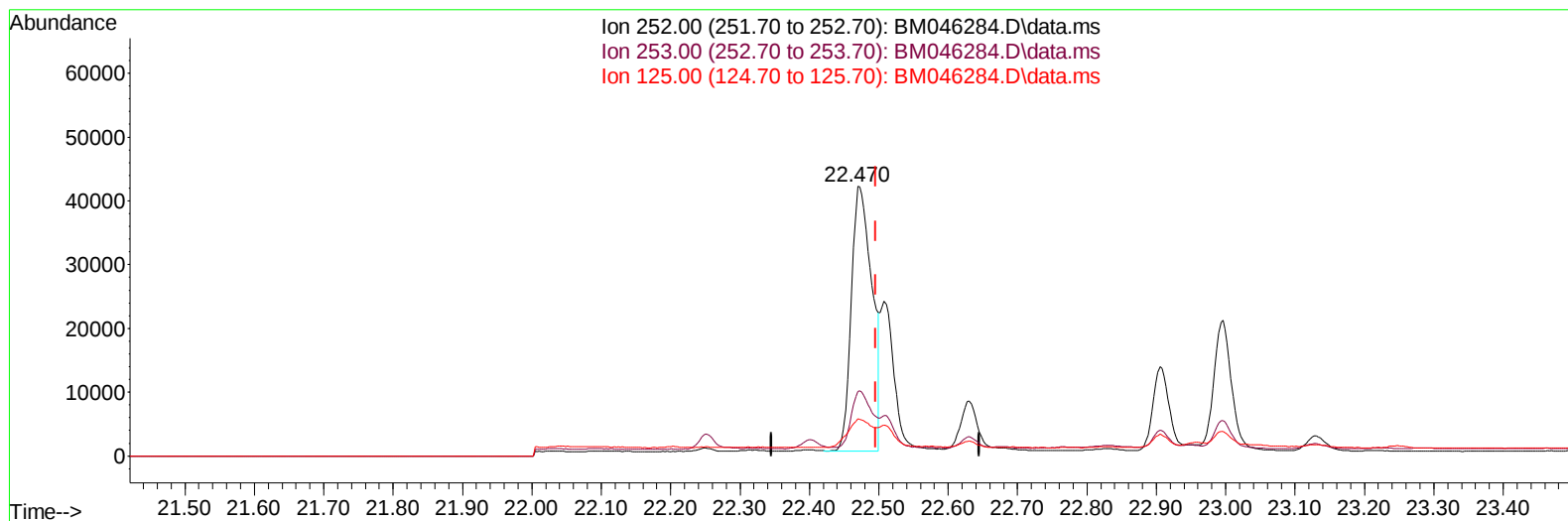
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 2024  
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TIC: BM046284.D\data.ms

(24) Benzo(b)fluoranthene

22.470min (-0.026) 3.12 ng/u1 m

response 85086

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 32.90  | 23.88  |
| 125.00 | 20.10  | 13.79  |
| 0.00   | 0.00   | 0.00   |

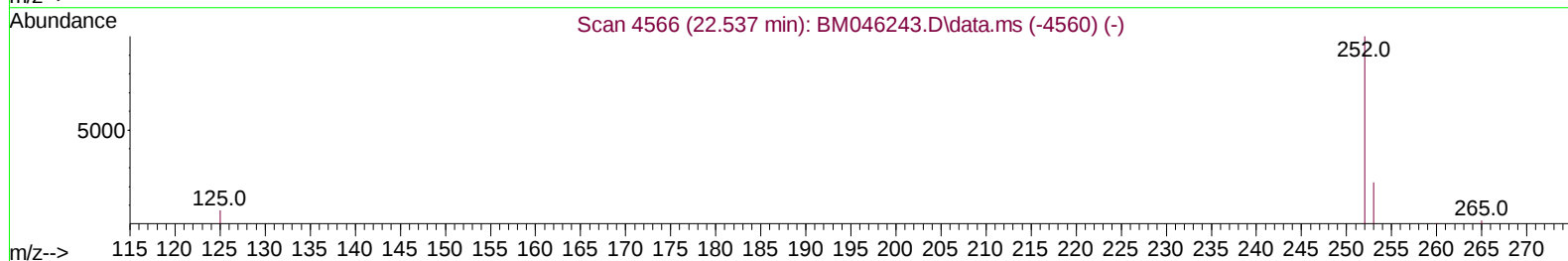
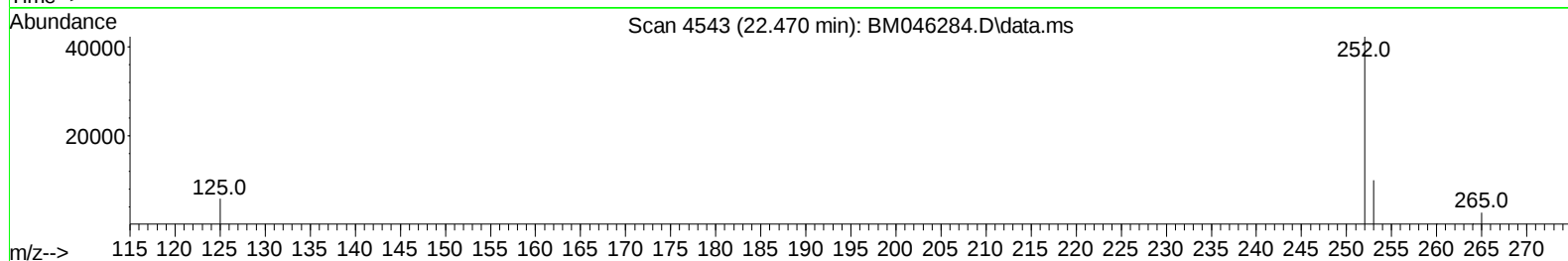
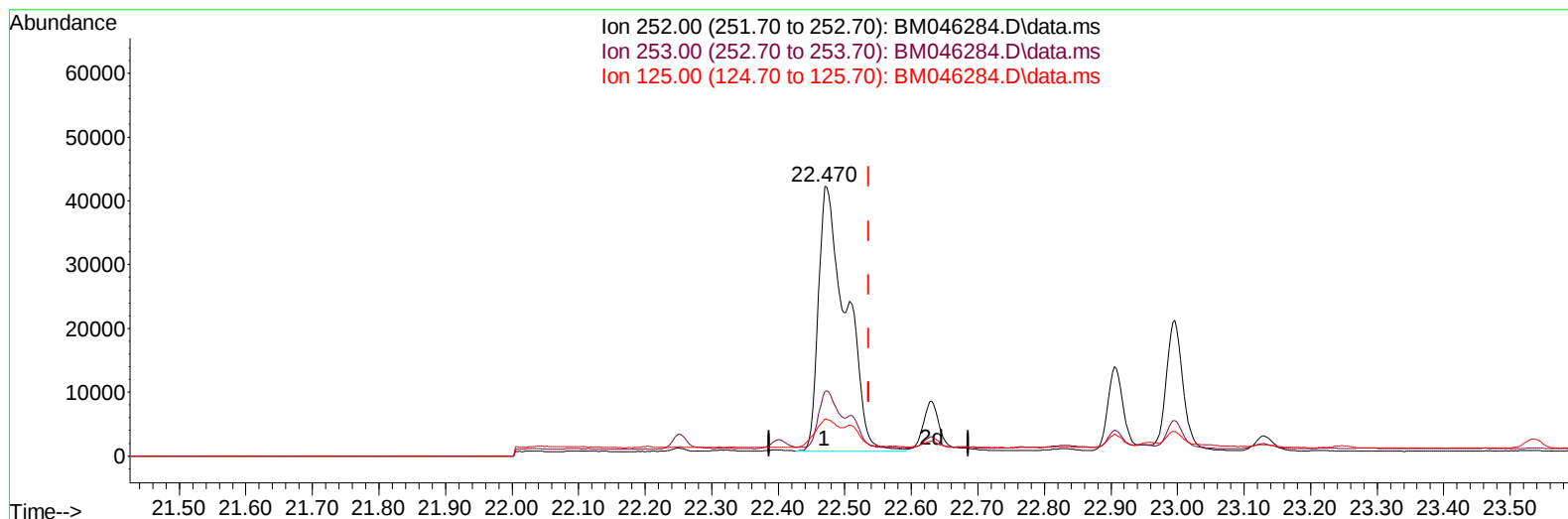
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
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Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

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TIC: BM046284.D\data.ms

(25) Benzo(k)fluoranthene

22.470min (-0.067) 3.67 ng/u1

response 119073

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 34.00  | 23.88# |
| 125.00 | 20.80  | 13.79# |
| 0.00   | 0.00   | 0.00   |

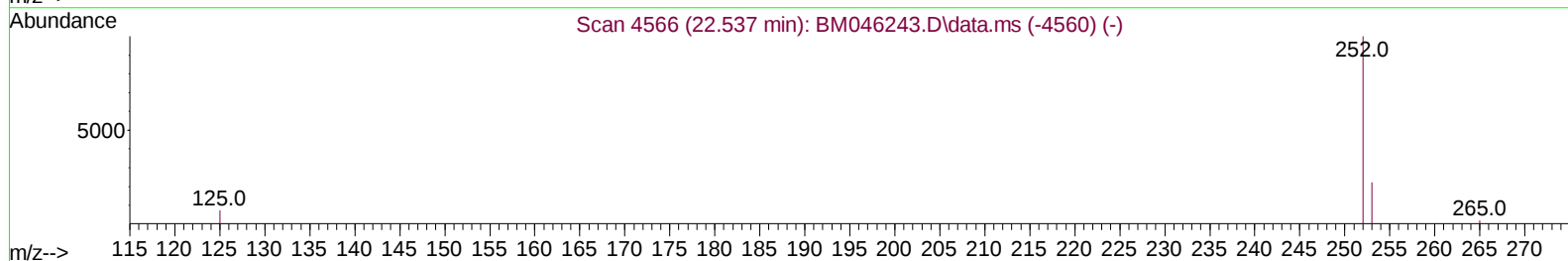
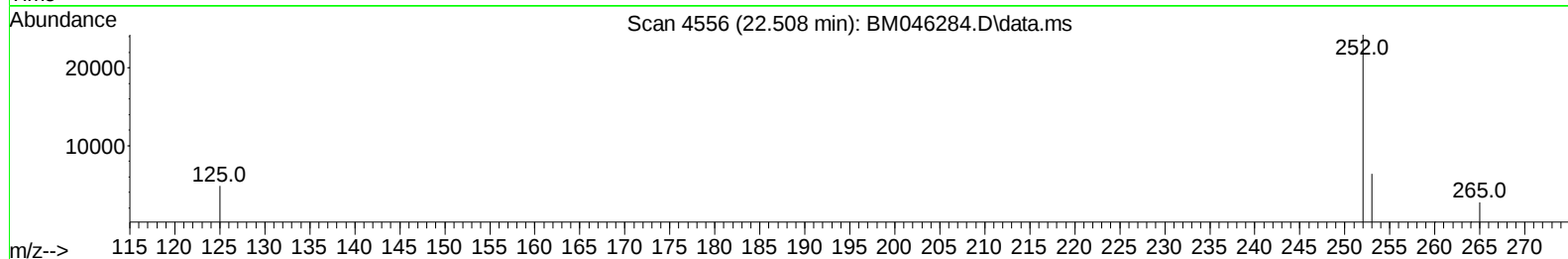
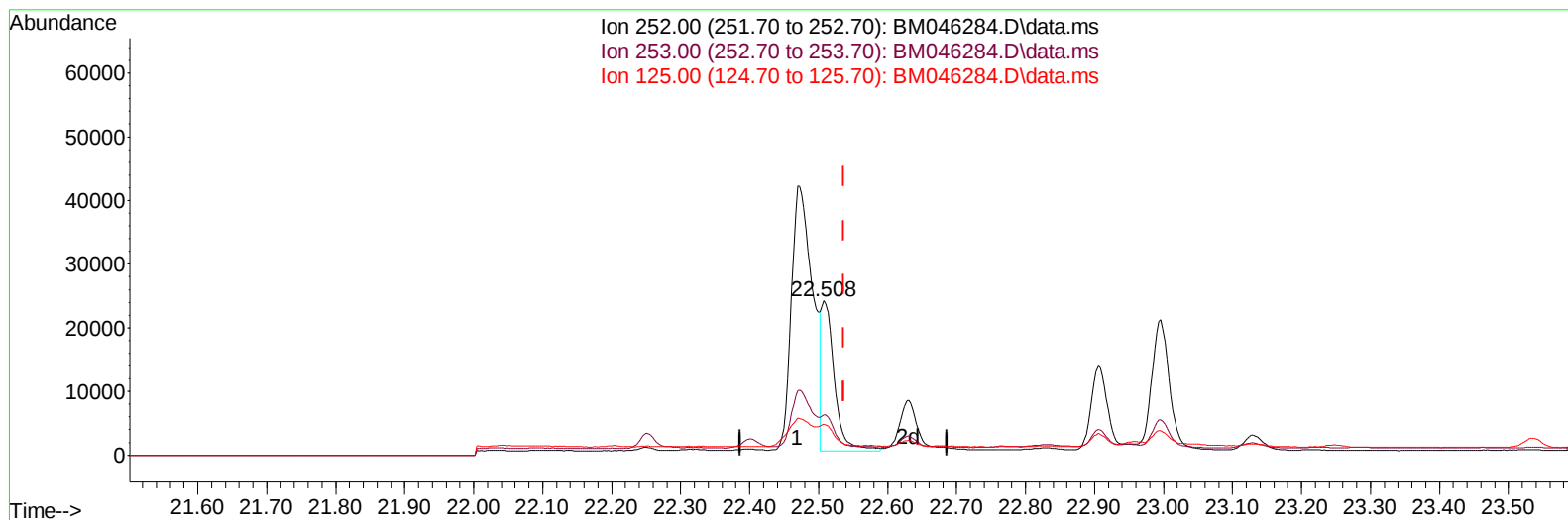
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 2024  
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Supervised By :mohammad ahmed 06/27/2024



TIC: BM046284.D\data.ms

(25) Benzo(k)fluoranthene

22.508min (-0.029) 0.94 ng/u1 m

response 30604

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 34.00  | 26.20# |
| 125.00 | 20.80  | 19.83  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
 Data File : BM046284.D  
 Acq On : 25 Jun 2024 10:28  
 Operator : MA/JU  
 Sample : P2844-23  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C48

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2024  
 Supervised By :mohammad ahmed 06/27/2024

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 QLast Update : Tue Jun 25 08:04:59 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.396  | 152  | 2456     | 0.400 | ng/ul  | -0.06    |
| 4) Naphthalene-d8           | 10.165 | 136  | 7649     | 0.400 | ng/ul  | -0.09    |
| 9) Acenaphthene-d10         | 14.047 | 164  | 4112     | 0.400 | ng/ul  | -0.04    |
| 13) Phenanthrene-d10        | 16.794 | 188  | 8941m    | 0.400 | ng/ul  | -0.06    |
| 17) Chrysene-d12            | 21.000 | 240  | 7158     | 0.400 | ng/ul  | -0.03    |
| 23) Perylene-d12            | 23.087 | 264  | 7579m    | 0.400 | ng/ul  | -0.02    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.021  | 96   | 8892     | 2.639 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.755 | 152  | 2354     | 0.229 | ng/ul  | -0.12    |
| 18) Fluoranthene-d10        | 18.829 | 212  | 4987     | 0.233 | ng/ul  | -0.04    |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.215 | 128  | 2922     | 0.137 | ng/ul# | 94       |
| 7) 2-Methylnaphthalene      | 11.832 | 142  | 1323     | 0.110 | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.052 | 142  | 1119     | 0.085 | ng/ul  | 96       |
| 10) Acenaphthylene          | 13.761 | 152  | 8637     | 0.443 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.108 | 153  | 1589     | 0.113 | ng/ul  | 94       |
| 12) Fluorene                | 15.102 | 166  | 2134     | 0.141 | ng/ul# | 96       |
| 15) Phenanthrene            | 16.832 | 178  | 51062m   | 2.033 | ng/ul  |          |
| 16) Anthracene              | 16.925 | 178  | 12669m   | 0.677 | ng/ul  |          |
| 19) Fluoranthene            | 18.857 | 202  | 121445   | 3.918 | ng/ul  | 96       |
| 20) Pyrene                  | 19.219 | 202  | 95681    | 2.855 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 20.983 | 228  | 62641    | 2.266 | ng/ul  | 98       |
| 22) Chrysene                | 21.032 | 228  | 58690    | 1.663 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.470 | 252  | 85086m   | 3.116 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.508 | 252  | 30604m   | 0.943 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 22.996 | 252  | 36354    | 1.437 | ng/ul# | 80       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.122 | 276  | 39384    | 0.951 | ng/ul# | 96       |
| 28) Dibenzo(a,h)anthracene  | 25.132 | 278  | 10821    | 0.351 | ng/ul# | 90       |
| 29) Benzo(g,h,i)perylene    | 25.746 | 276  | 5833     | 0.164 | ng/ul# | 81       |
| -----                       |        |      |          |       |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM062424\  
Data File : BM046284.D  
Acq On : 25 Jun 2024 10:28  
Operator : MA/JU  
Sample : P2844-23  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C48

## Manual IntegrationsAPPROVED

Quant Time: Jun 25 11:22:48 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 25 08:04:59 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/26/2024  
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