

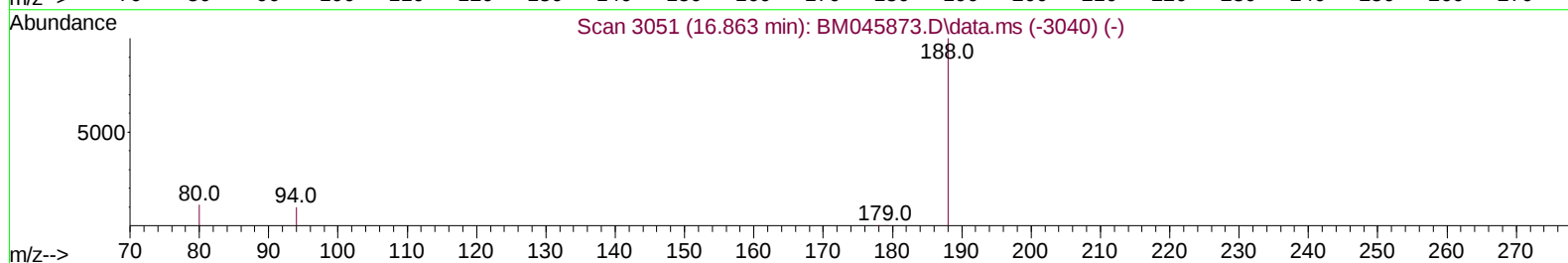
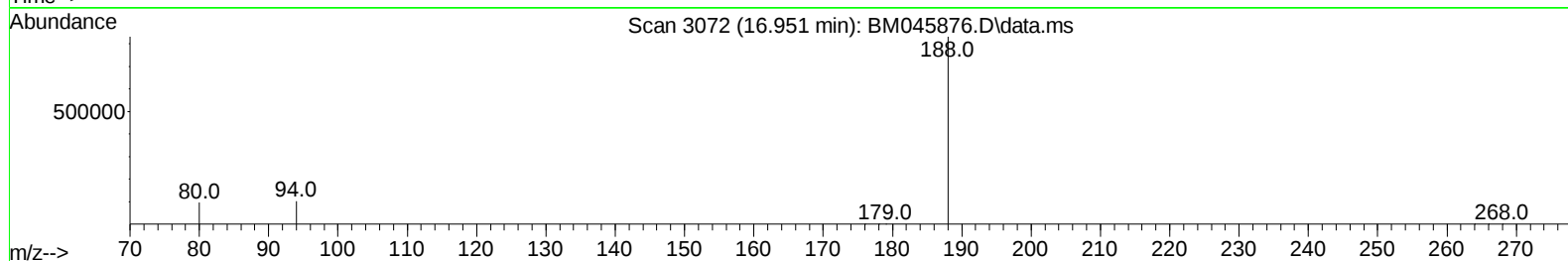
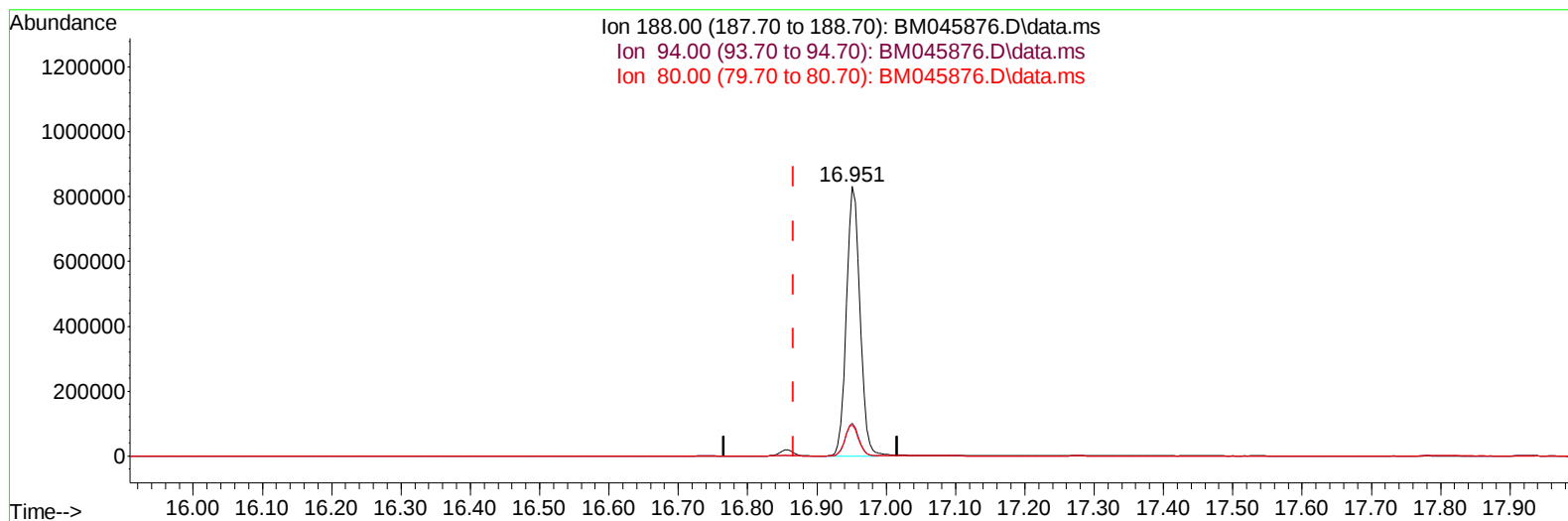
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
Response via : Initial Calibration



TIC: BM045876.D\data.ms

**(13) Phenanthrene-d10 (I)****16.951min (+ 0.085) 0.40 ng/u1****response 1139105**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 10.50  | 12.19  |
| 80.00  | 11.70  | 11.50  |
| 0.00   | 0.00   | 0.00   |

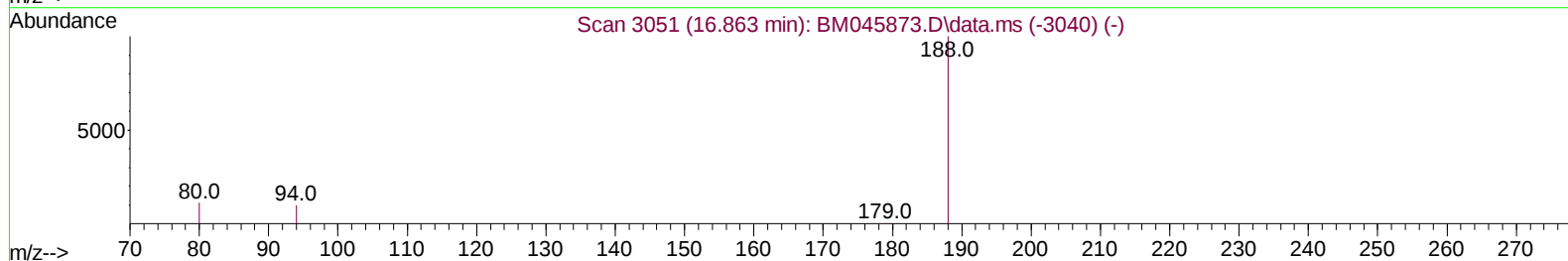
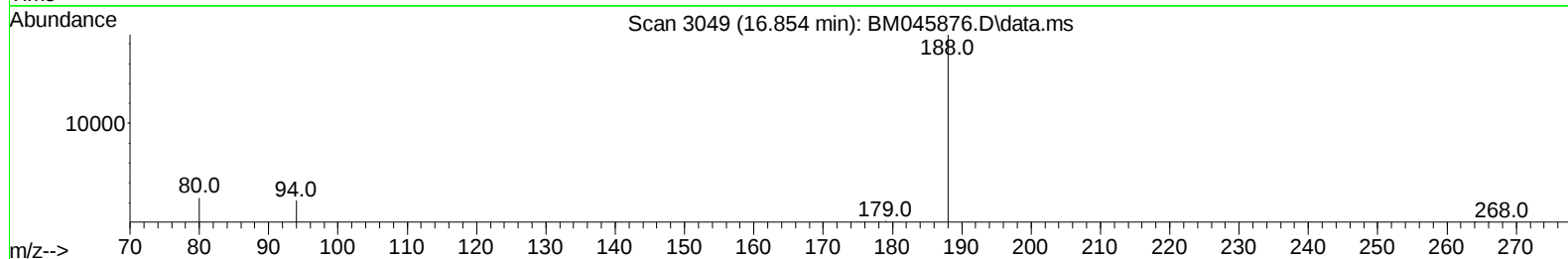
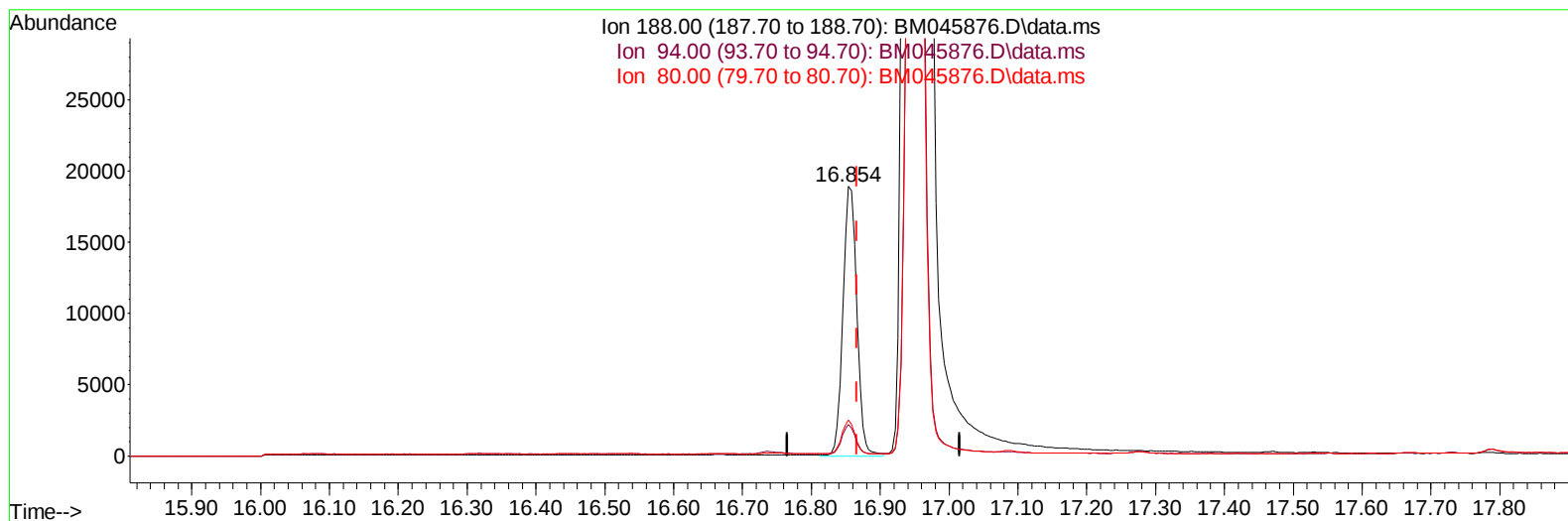
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

Manual IntegrationsAPPROVED

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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QLast Update : Thu Jun 06 17:58:22 2024  
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Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045876.D\data.ms

(13) Phenanthrene-d10 (I)

16.854min (-0.012) 0.40 ng/u1 m

response 26538

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 10.50  | 11.73  |
| 80.00  | 11.70  | 13.24  |
| 0.00   | 0.00   | 0.00   |

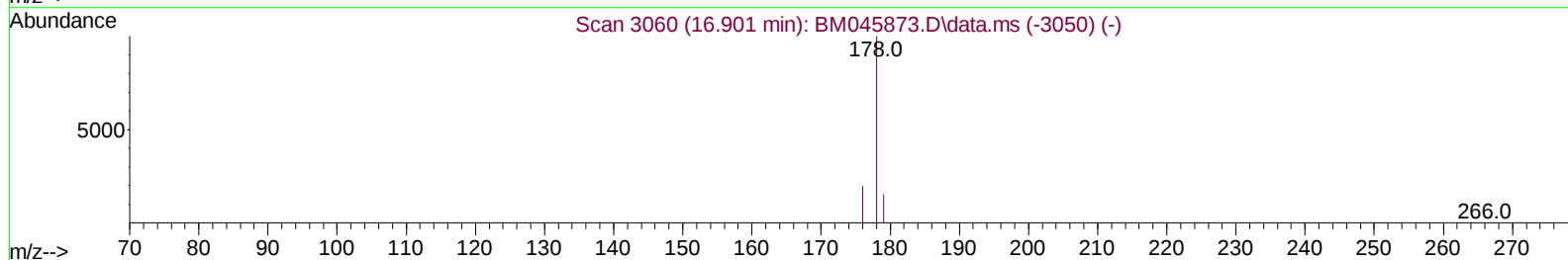
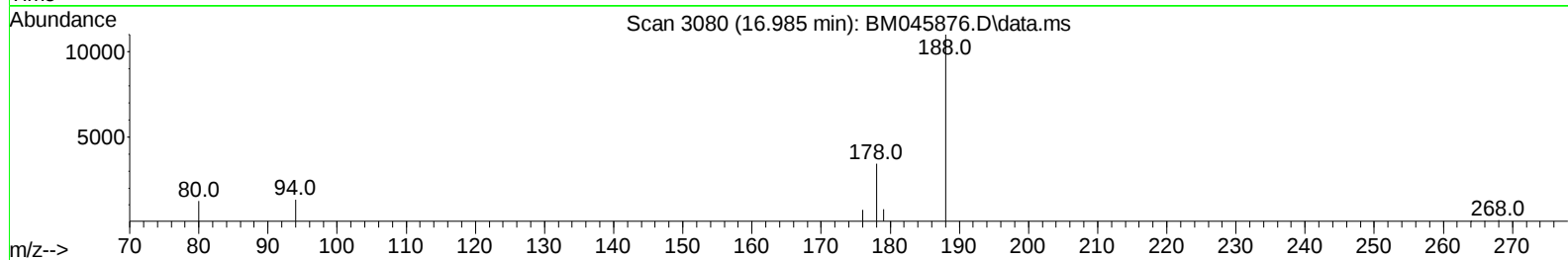
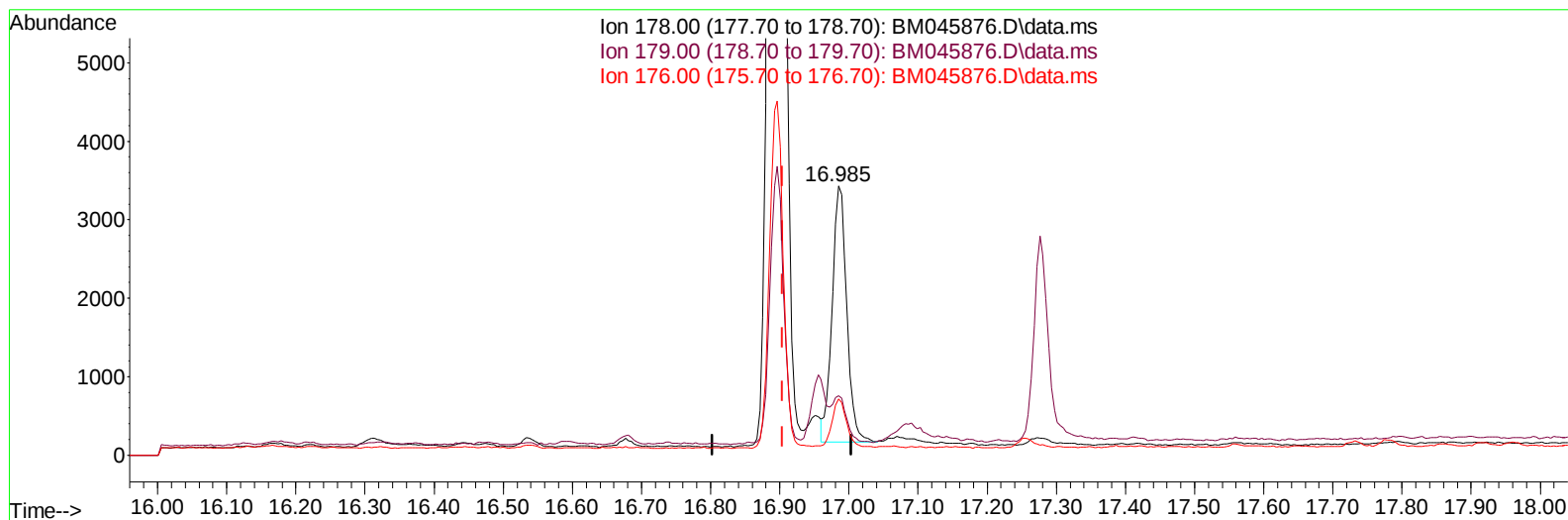
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

Manual IntegrationsAPPROVED

Quant Time: Jun 07 11:45:23 2024  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
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Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045876.D\data.ms

(15) Phenanthrene

16.985min (+ 0.081) 0.06 ng/u1

response 4754

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.90  | 21.99# |
| 176.00 | 19.50  | 20.97  |
| 0.00   | 0.00   | 0.00   |

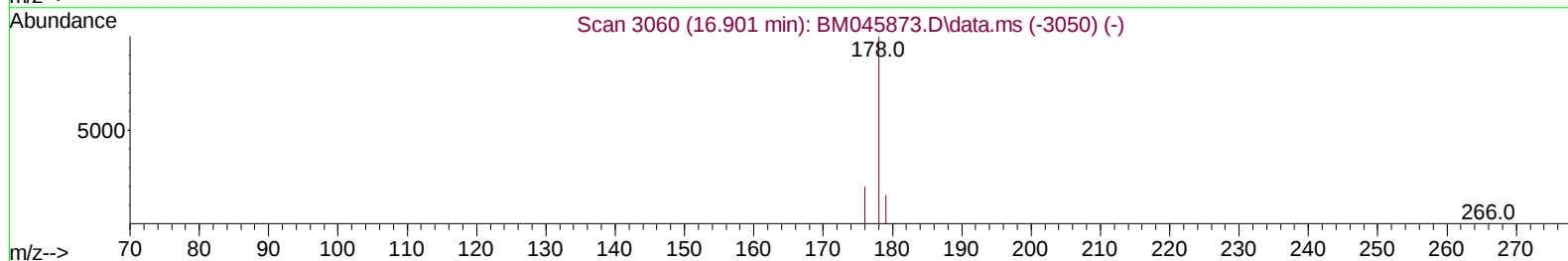
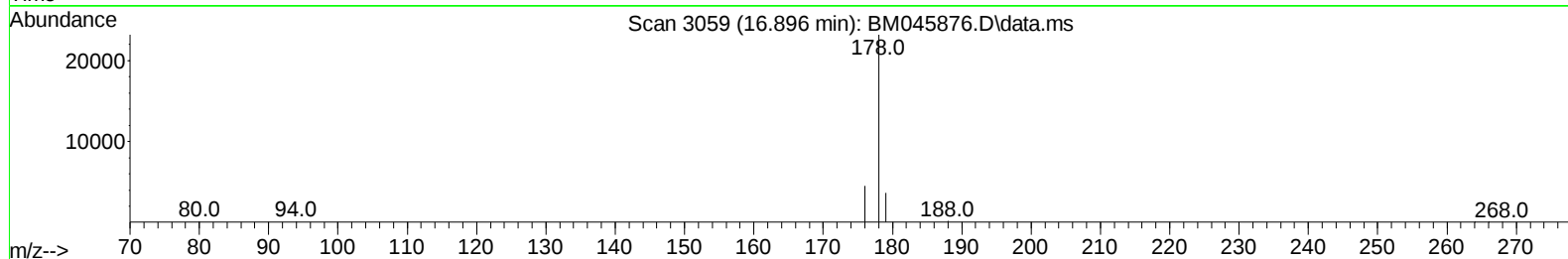
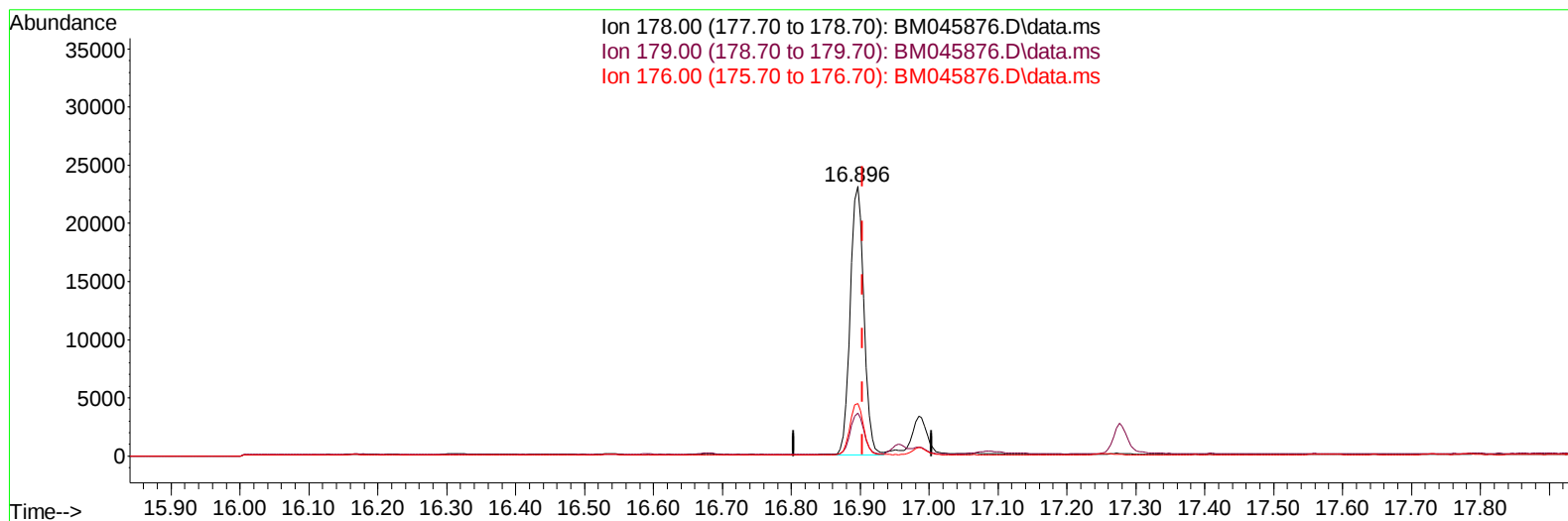
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

Manual IntegrationsAPPROVED

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045876.D\data.ms

(15) Phenanthrene

16.896min (-0.007) 0.43 ng/ul m

response 31787

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.90  | 15.87  |
| 176.00 | 19.50  | 19.48  |
| 0.00   | 0.00   | 0.00   |

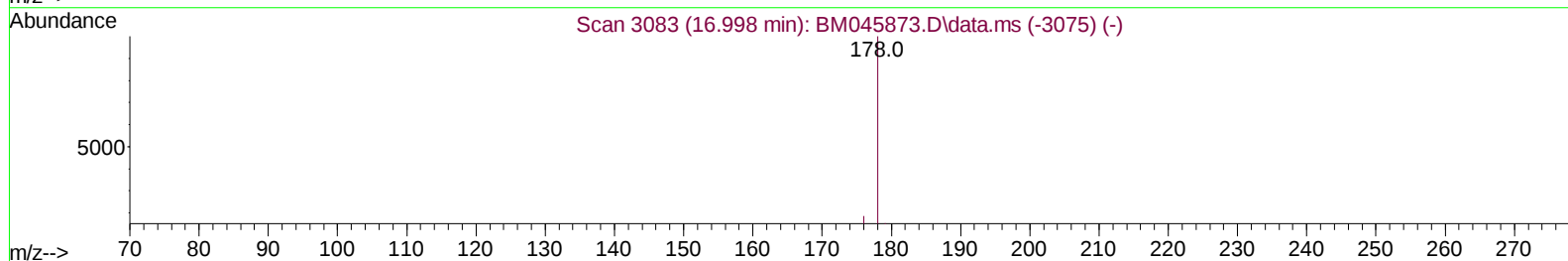
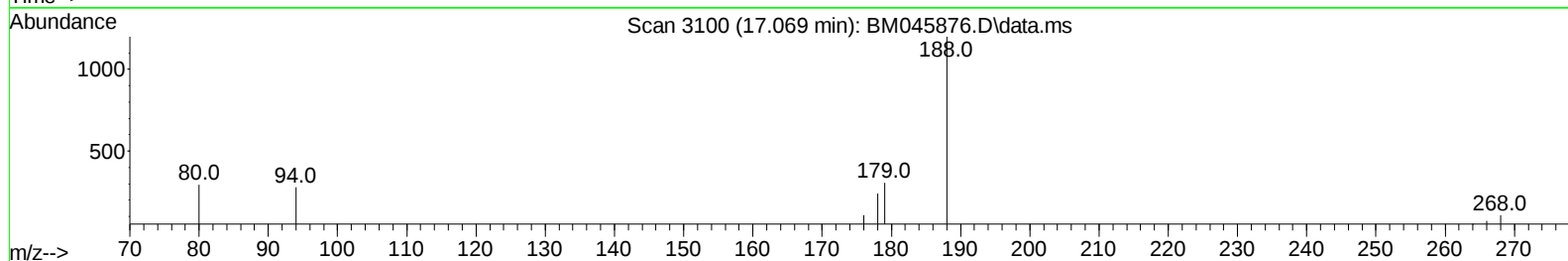
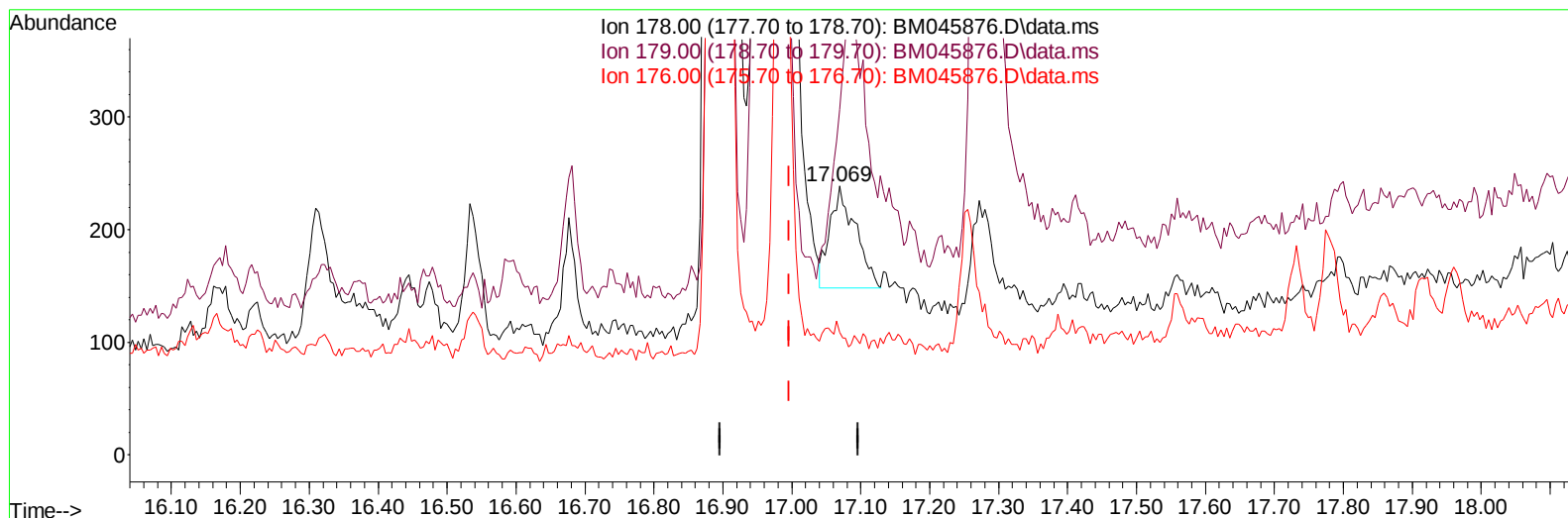
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

Manual IntegrationsAPPROVED

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
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Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045876.D\data.ms

(16) Anthracene

17.069min (+ 0.073) 0.00 ng/u1

response 235

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 178.00 | 100.00 | 100.00  |
| 179.00 | 16.40  | 128.45# |
| 176.00 | 19.40  | 45.61#  |
| 0.00   | 0.00   | 0.00    |

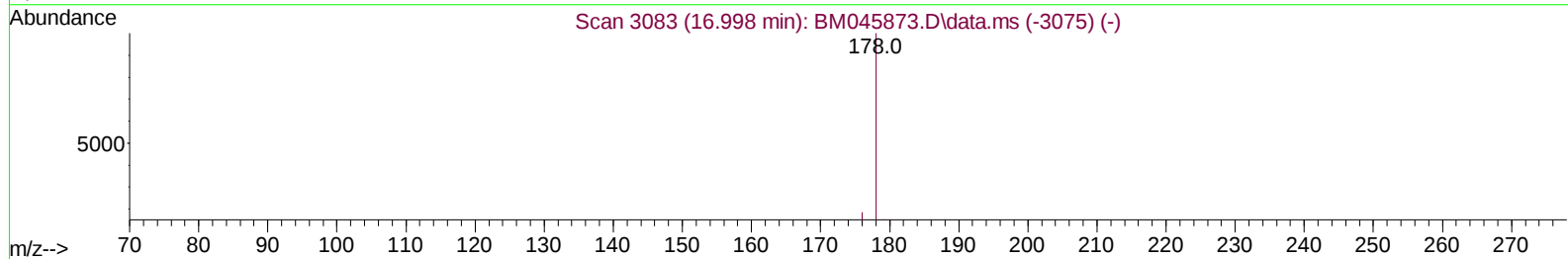
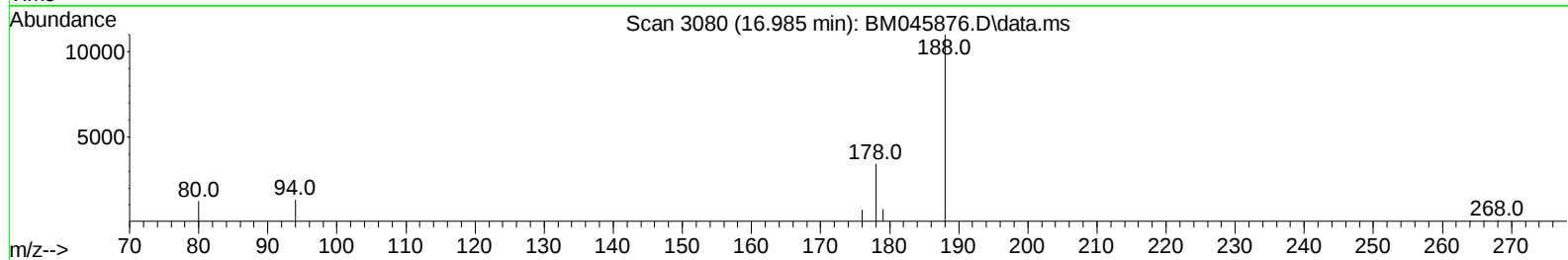
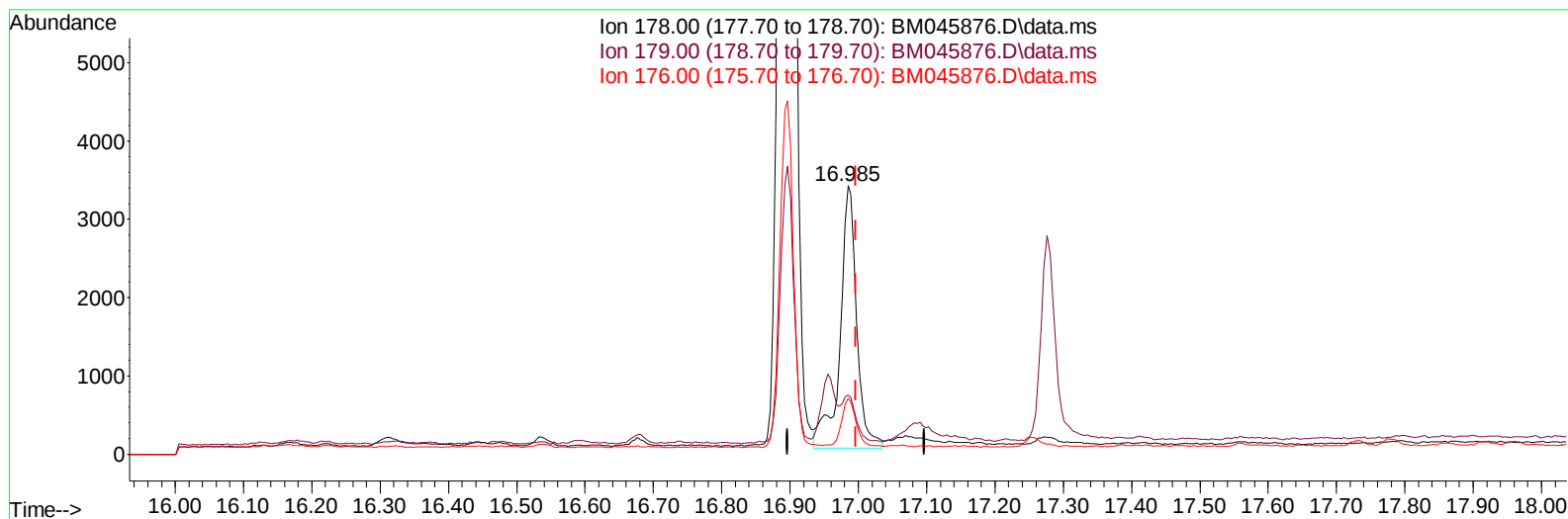
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
Response via : Initial Calibration



TIC: BM045876.D\data.ms

## (16) Anthracene

16.985min (-0.012) 0.09 ng/u1 m

response 5725

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 16.40  | 21.99# |
| 176.00 | 19.40  | 20.97  |
| 0.00   | 0.00   | 0.00   |

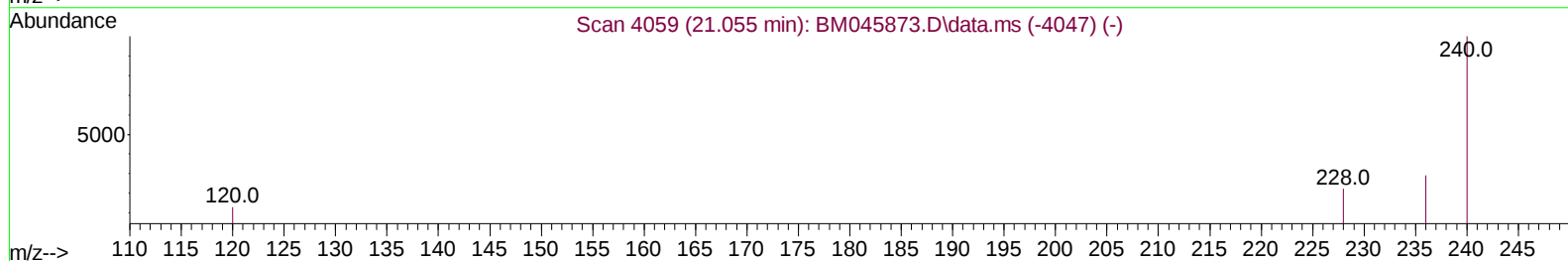
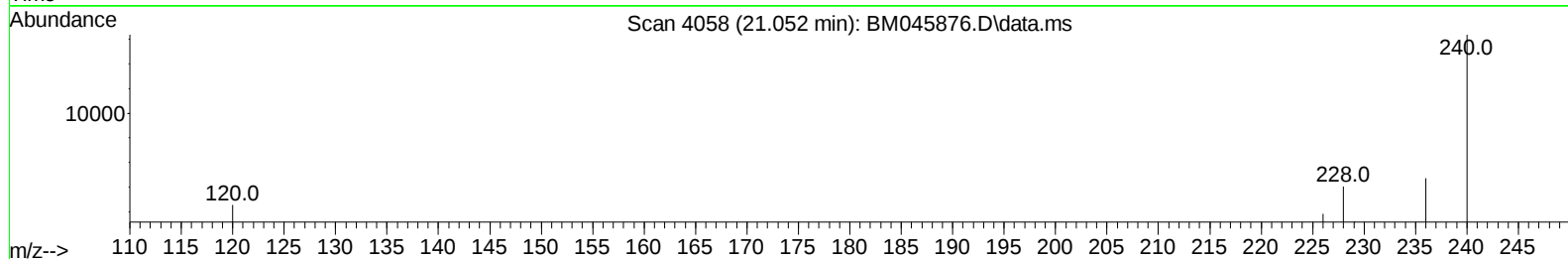
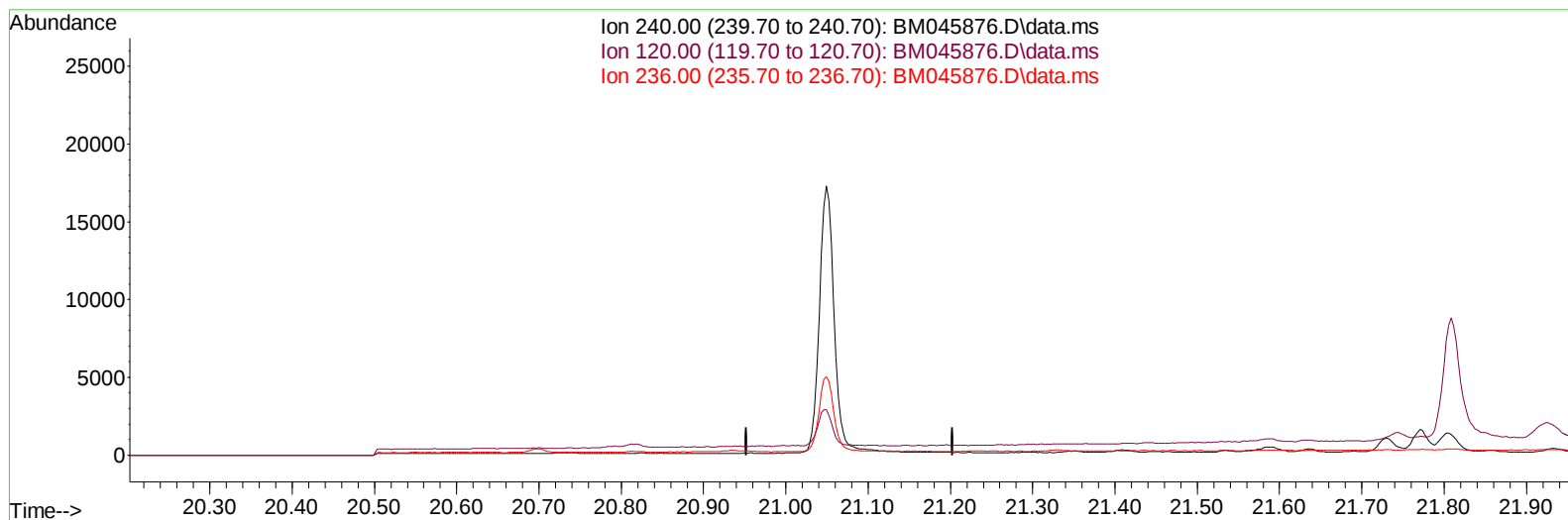
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
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TIC: BM045876.D\data.ms

## (17) Chrysene-d12

21.053min (-21.053) 0.00 ng/u1

response 0

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 240.00 | 100.00 | 0.00  |
| 120.00 | 16.10  | 0.00# |
| 236.00 | 29.50  | 0.00# |
| 0.00   | 0.00   | 0.00  |

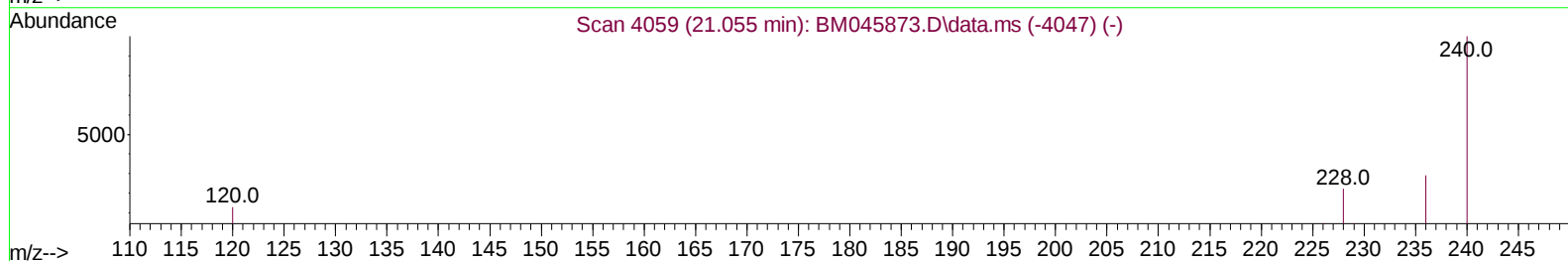
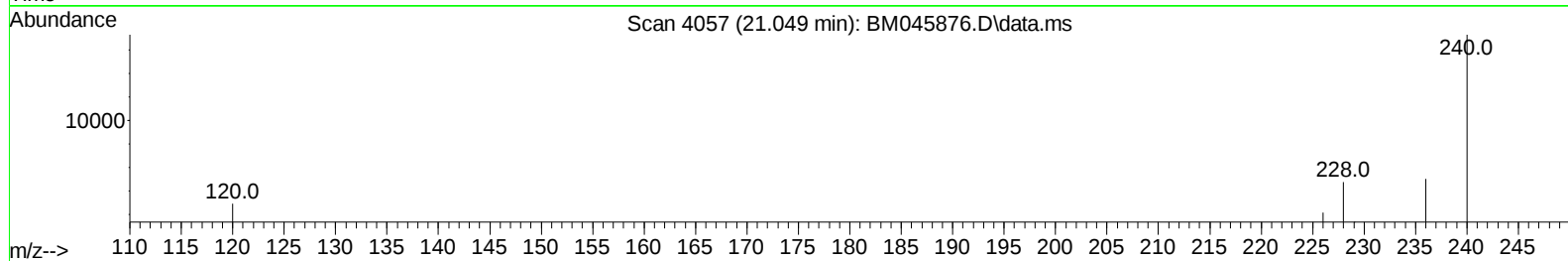
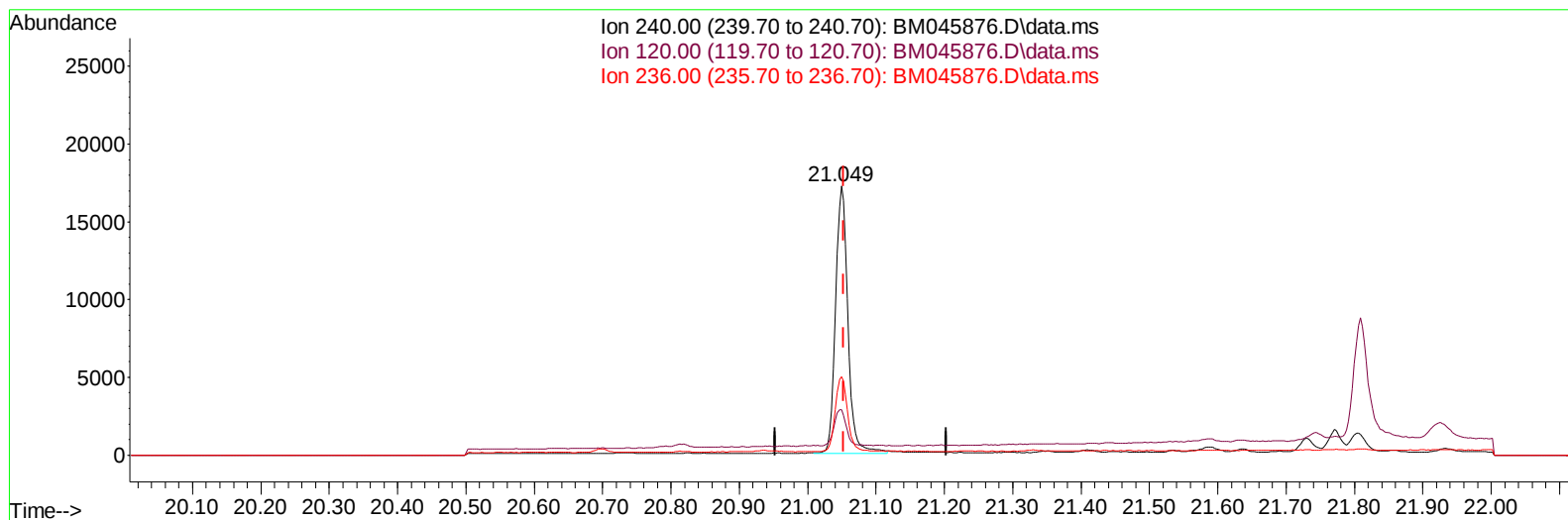
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
Response via : Initial Calibration



TIC: BM045876.D\data.ms

## (17) Chrysene-d12

21.049min (-0.004) 0.40 ng/u1 m

response 21730

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 240.00 | 100.00 | 100.00 |
| 120.00 | 16.10  | 16.88  |
| 236.00 | 29.50  | 29.13  |
| 0.00   | 0.00   | 0.00   |

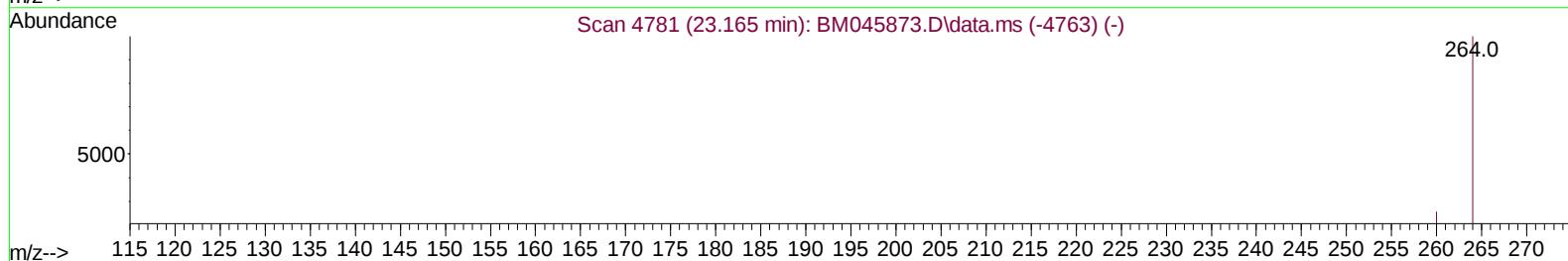
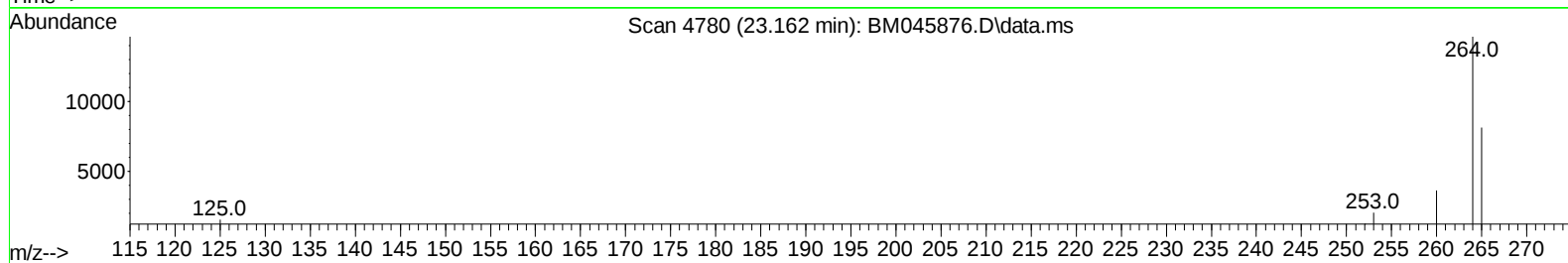
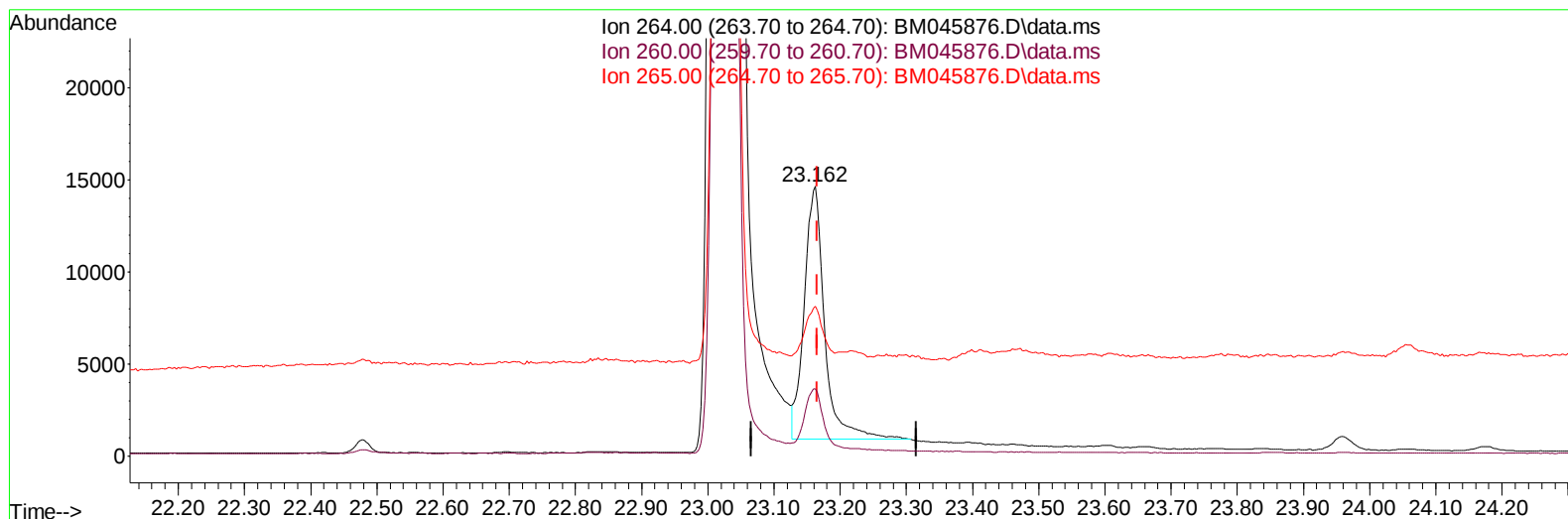
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

Manual IntegrationsAPPROVED

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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Supervised By :mohammad ahmed 06/13/2024



TIC: BM045876.D\data.ms

(23) Perylene-d12 (I)

23.162min (-0.004) 0.40 ng/u1

response 29148

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 25.70  | 24.89  |
| 265.00 | 76.60  | 55.59# |
| 0.00   | 0.00   | 0.00   |

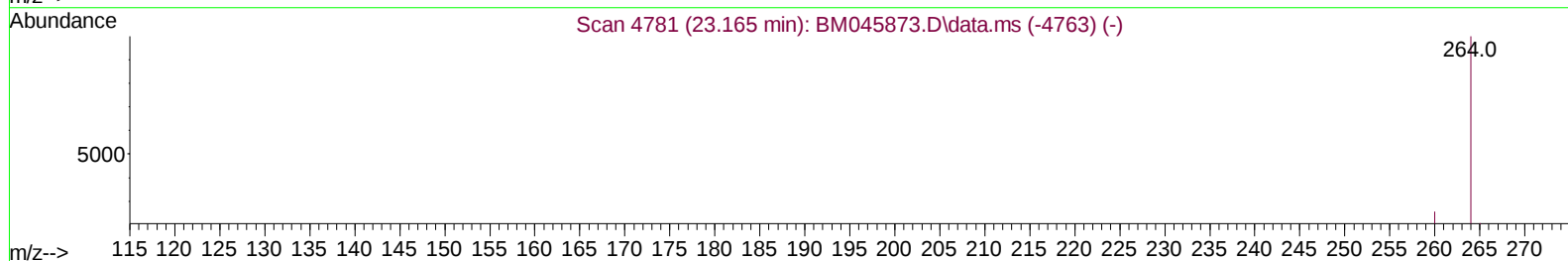
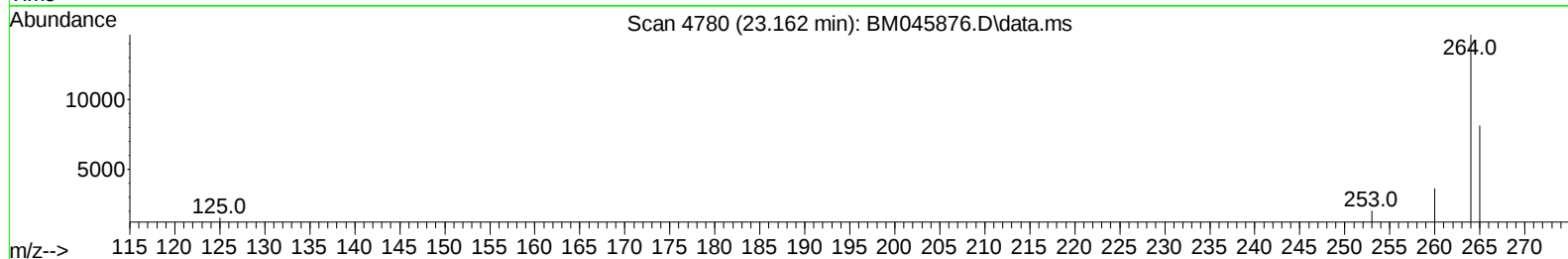
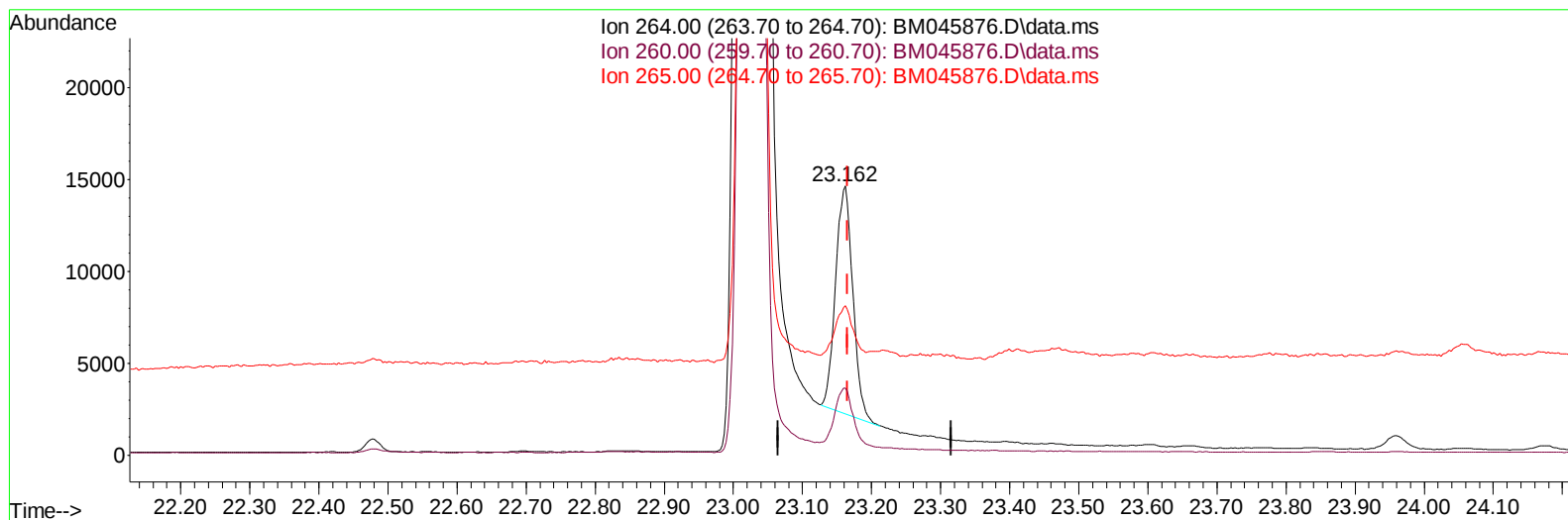
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045876.D  
 Acq On : 07 Jun 2024 11:16  
 Operator : MA/JU  
 Sample : P2586-19  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C44

Manual IntegrationsAPPROVED

Quant Time: Jun 07 11:45:23 2024  
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 QLast Update : Thu Jun 06 17:58:22 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
 Supervised By :mohammad ahmed 06/13/2024



TIC: BM045876.D\data.ms

**(23) Perylene-d12 (I)**

23.162min (-0.004) 0.40 ng/ul m

response 21366

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 25.70  | 24.89  |
| 265.00 | 76.60  | 55.59# |
| 0.00   | 0.00   | 0.00   |

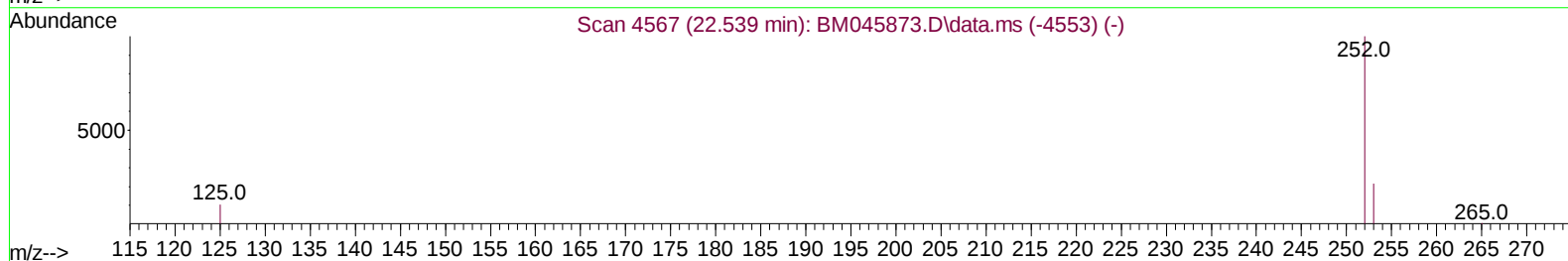
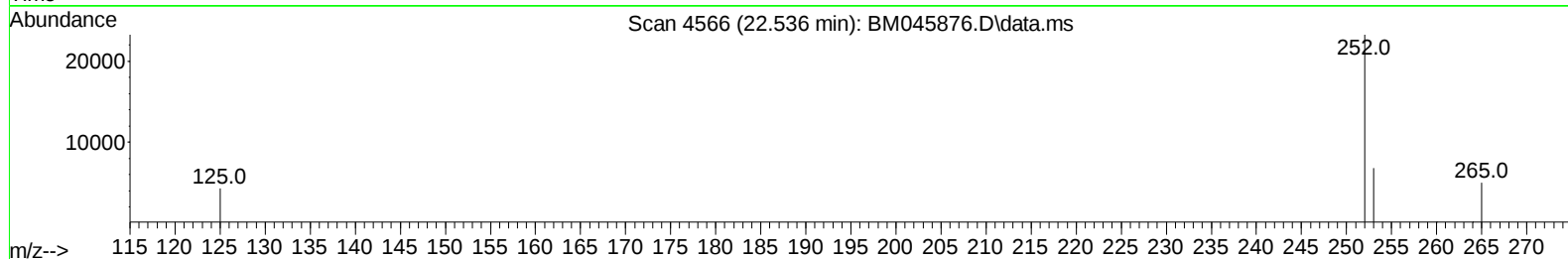
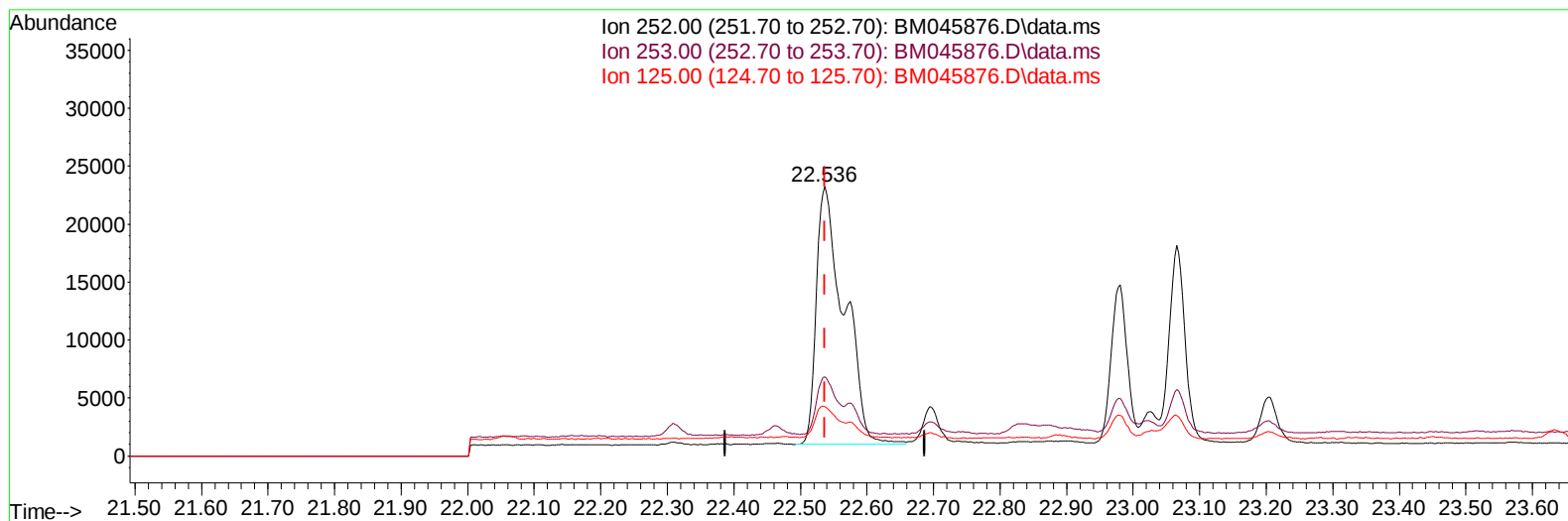
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 07 11:45:23 2024  
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TIC: BM045876.D\data.ms

## (24) Benzo(b)fluoranthene

22.536min (-0.001) 0.90 ng/u1

response 64119

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.80  | 29.41  |
| 125.00 | 17.90  | 18.40  |
| 0.00   | 0.00   | 0.00   |

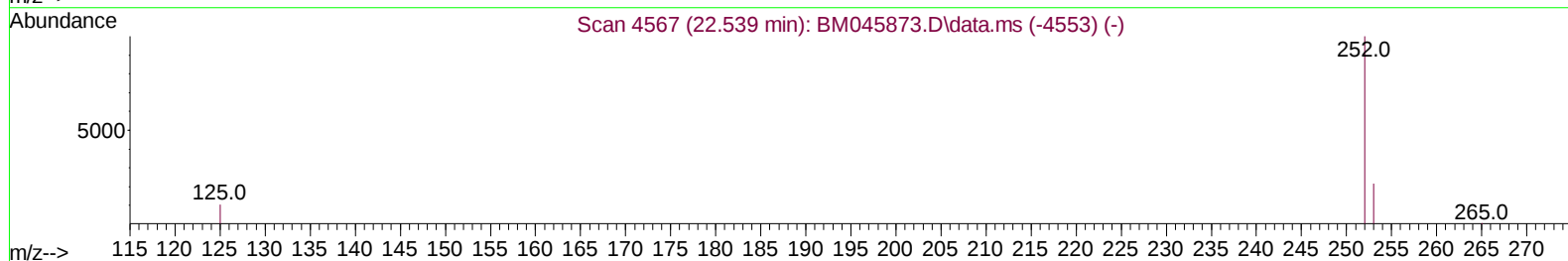
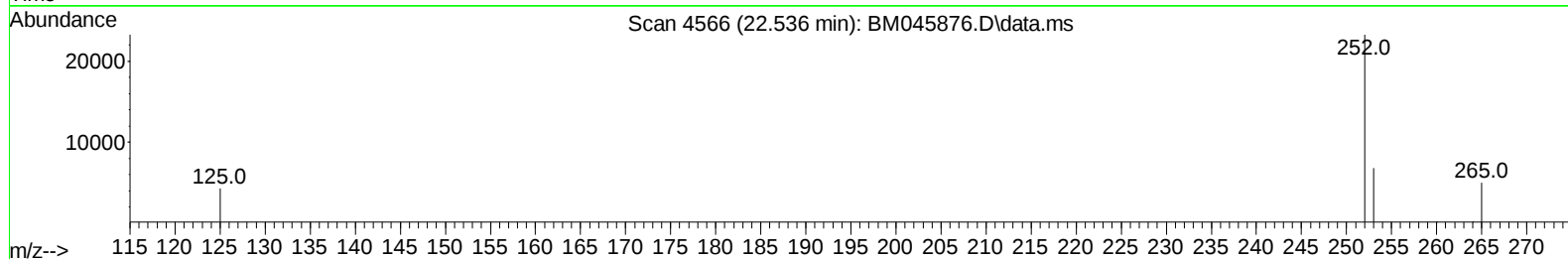
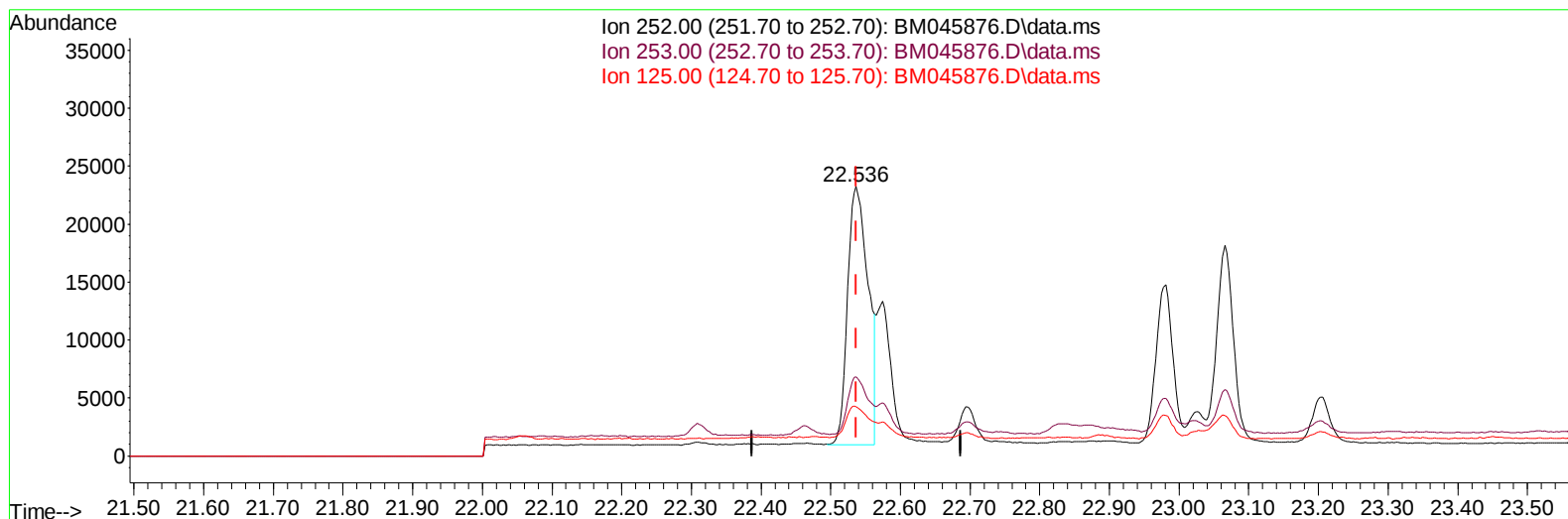
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

## Manual IntegrationsAPPROVED

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
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Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024



TIC: BM045876.D\data.ms

## (24) Benzo(b)fluoranthene

22.536min (-0.001) 0.64 ng/u1 m

response 45676

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.80  | 29.41  |
| 125.00 | 17.90  | 18.40  |
| 0.00   | 0.00   | 0.00   |

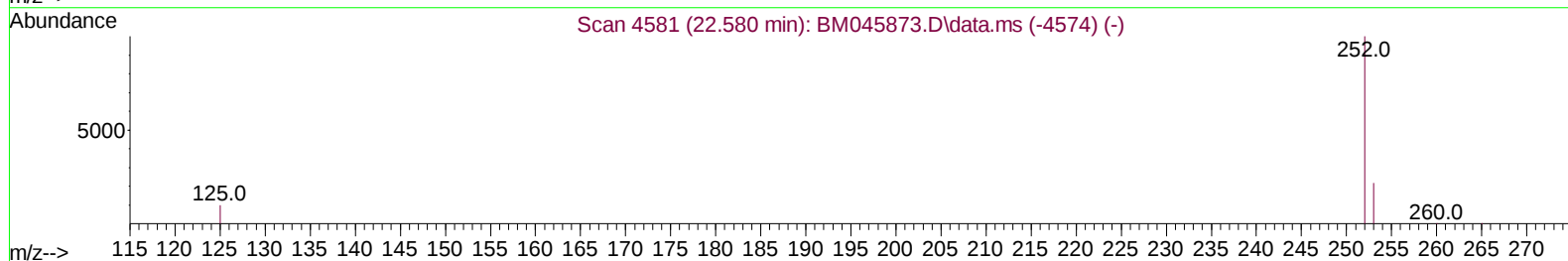
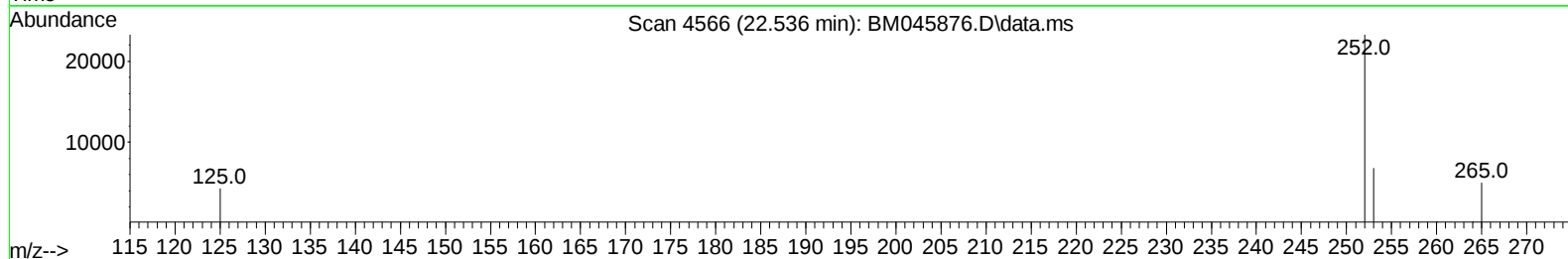
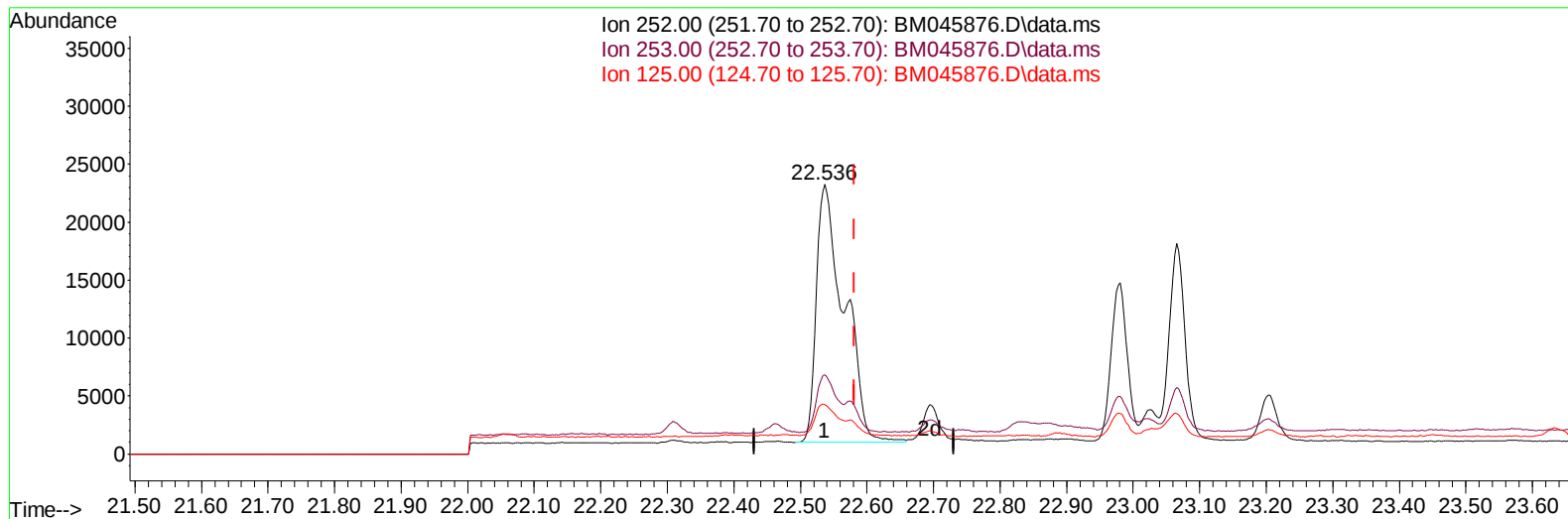
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4C44

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 07 11:45:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 06 17:58:22 2024  
Response via : Initial Calibration



TIC: BM045876.D\data.ms

## (25) Benzo(k)fluoranthene

22.536min (-0.044) 0.82 ng/u1

response 64119

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.30  | 29.41  |
| 125.00 | 17.70  | 18.40  |
| 0.00   | 0.00   | 0.00   |

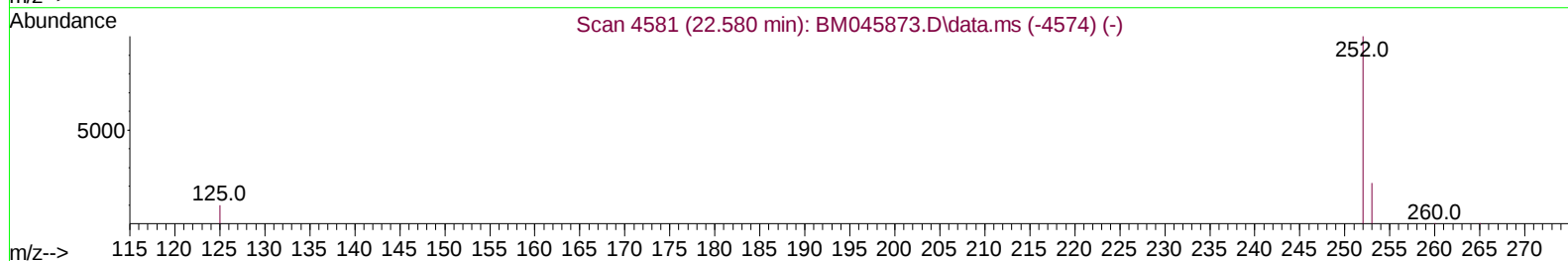
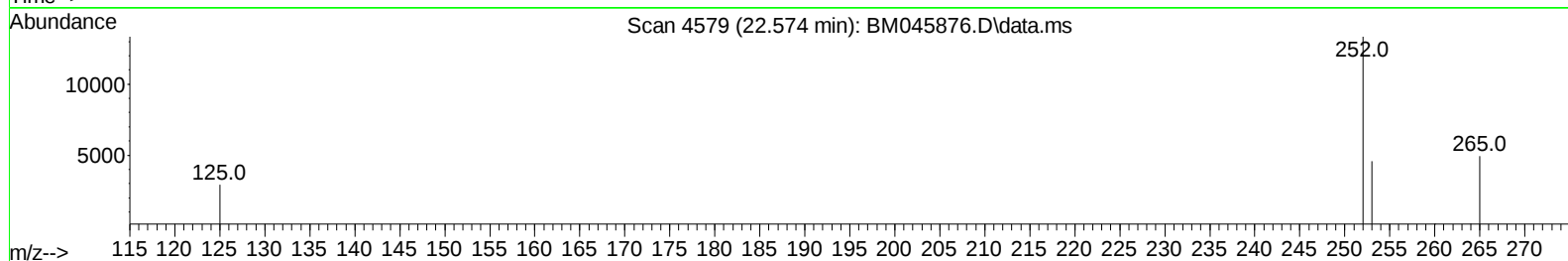
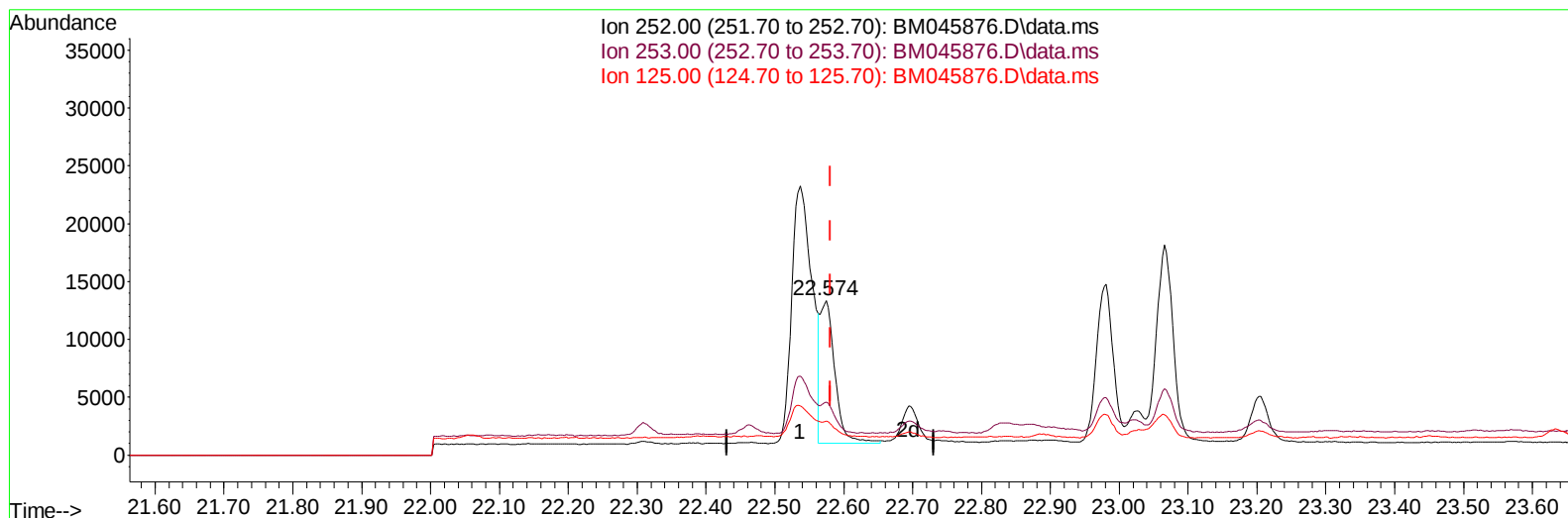
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045876.D  
Acq On : 07 Jun 2024 11:16  
Operator : MA/JU  
Sample : P2586-19  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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TIC: BM045876.D\data.ms

## (25) Benzo(k)fluoranthene

22.574min (-0.006) 0.23 ng/u1 m

response 18260

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 31.30  | 34.21  |
| 125.00 | 17.70  | 22.02# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045876.D  
 Acq On : 07 Jun 2024 11:16  
 Operator : MA/JU  
 Sample : P2586-19  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C44

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 QLast Update : Thu Jun 06 17:58:22 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.468  | 152  | 6540     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.238 | 136  | 21702    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.113 | 164  | 12002    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.854 | 188  | 26538m   | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.049 | 240  | 21730m   | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.162 | 264  | 21366m   | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.058  | 96   | 28644    | 3.845 | ng/ul  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.844 | 152  | 6813     | 0.218 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.886 | 212  | 14574    | 0.224 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        | Qvalue   |
| 10) Acenaphthylene          | 13.831 | 152  | 1929     | 0.035 | ng/ul# | 89       |
| 11) Acenaphthene            | 14.173 | 153  | 875      | 0.022 | ng/ul  | 95       |
| 12) Fluorene                | 15.168 | 166  | 1183     | 0.026 | ng/ul# | 94       |
| 15) Phenanthrene            | 16.896 | 178  | 31787m   | 0.427 | ng/ul  |          |
| 16) Anthracene              | 16.985 | 178  | 5725m    | 0.090 | ng/ul  |          |
| 19) Fluoranthene            | 18.918 | 202  | 76453    | 0.882 | ng/ul  | 98       |
| 20) Pyrene                  | 19.276 | 202  | 61733    | 0.683 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.032 | 228  | 28979    | 0.363 | ng/ul  | 97       |
| 22) Chrysene                | 21.084 | 228  | 35808    | 0.412 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.536 | 252  | 45676m   | 0.645 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.574 | 252  | 18260m   | 0.234 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.066 | 252  | 28418    | 0.403 | ng/ul  | 93       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.225 | 276  | 22884    | 0.251 | ng/ul# | 89       |
| 28) Dibenzo(a,h)anthracene  | 25.232 | 278  | 4794     | 0.066 | ng/ul# | 59       |
| 29) Benzo(g,h,i)perylene    | 25.852 | 276  | 22981    | 0.292 | ng/ul  | 98       |
| -----                       |        |      |          |       |        |          |

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

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