

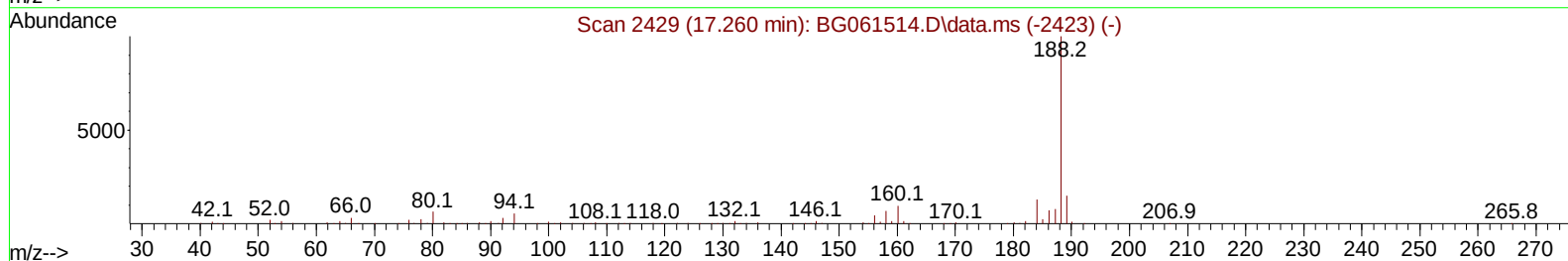
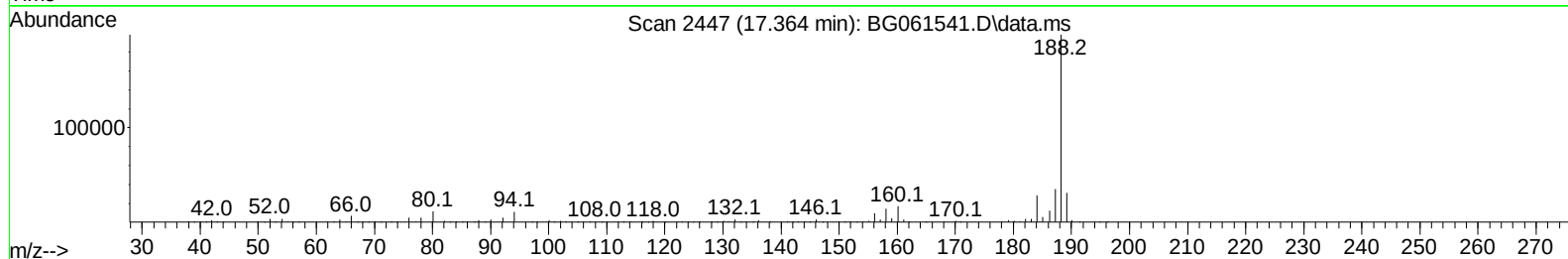
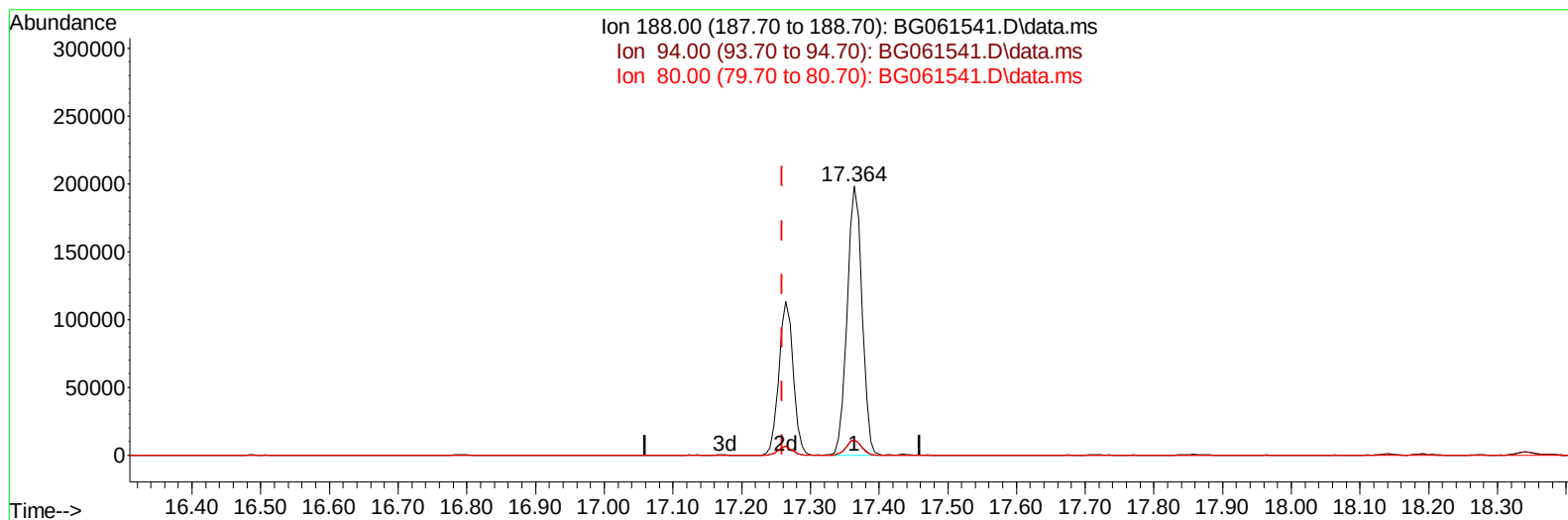
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 21:49:57 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

**(64) Phenanthrene-d10 (I)**

**17.364min (+ 0.105) 20.00 ng/ul**

**response 296872**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 4.80   | 5.52   |
| 80.00  | 6.20   | 5.70   |
| 0.00   | 0.00   | 0.00   |

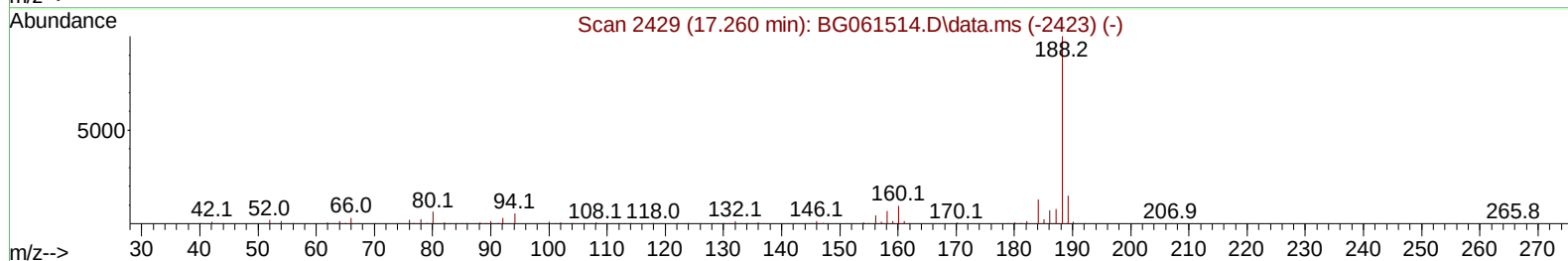
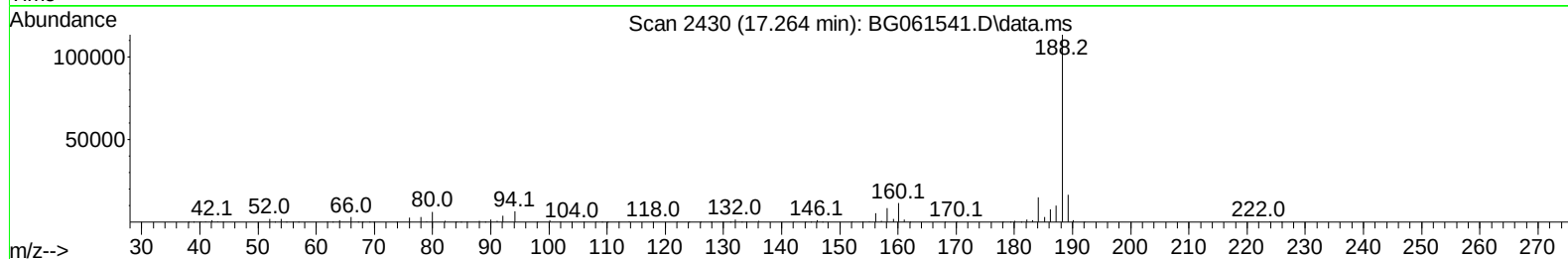
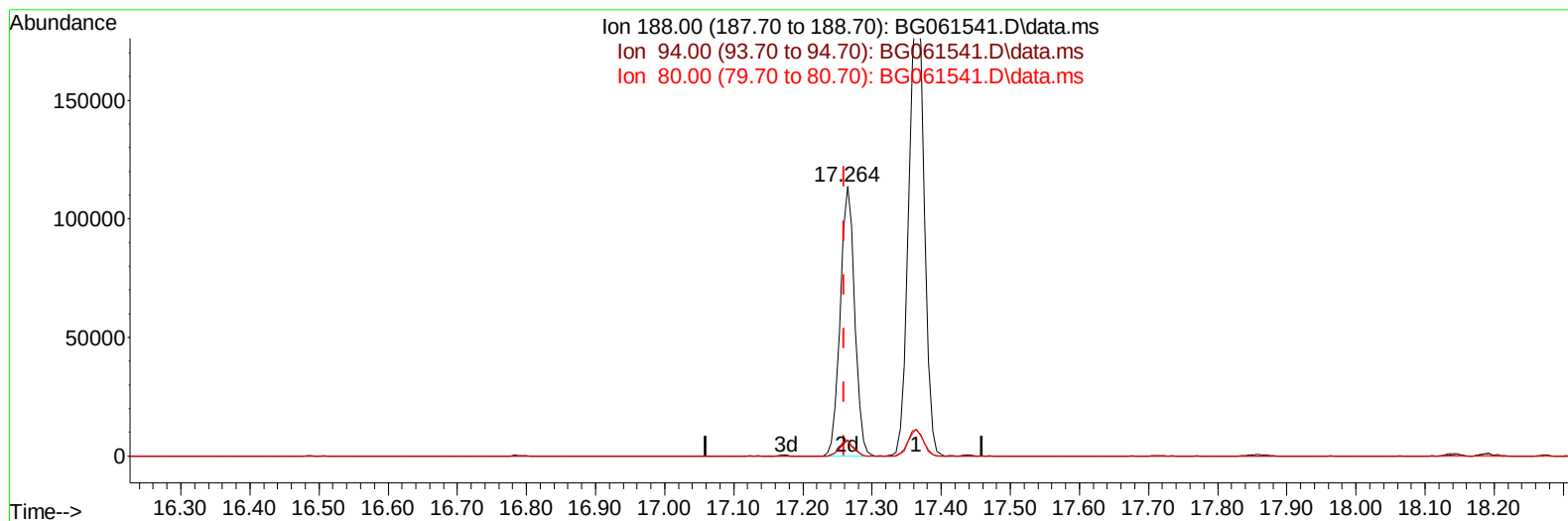
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
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Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 21:49:57 2024  
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QLast Update : Thu Jun 06 12:15:45 2024  
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Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

(64) Phenanthrene-d10 (I)

17.264min (+ 0.005) 20.00 ng/ul m

response 165066

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 4.80   | 5.95#  |
| 80.00  | 6.20   | 5.63   |
| 0.00   | 0.00   | 0.00   |



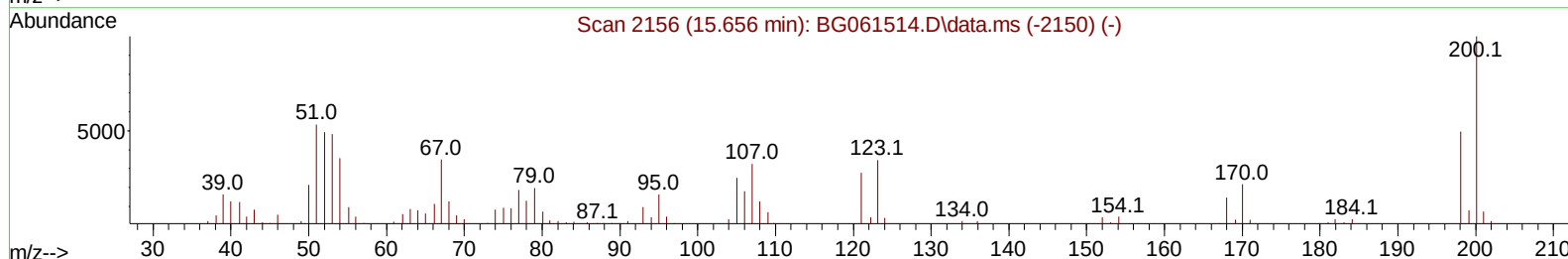
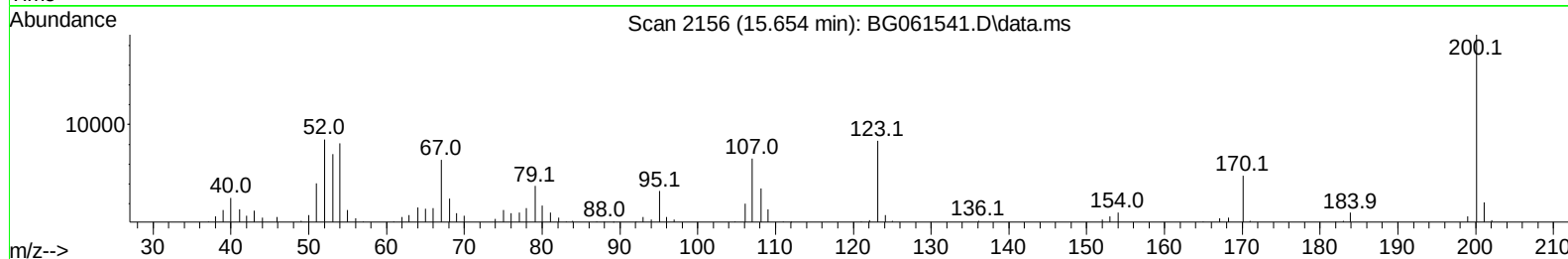
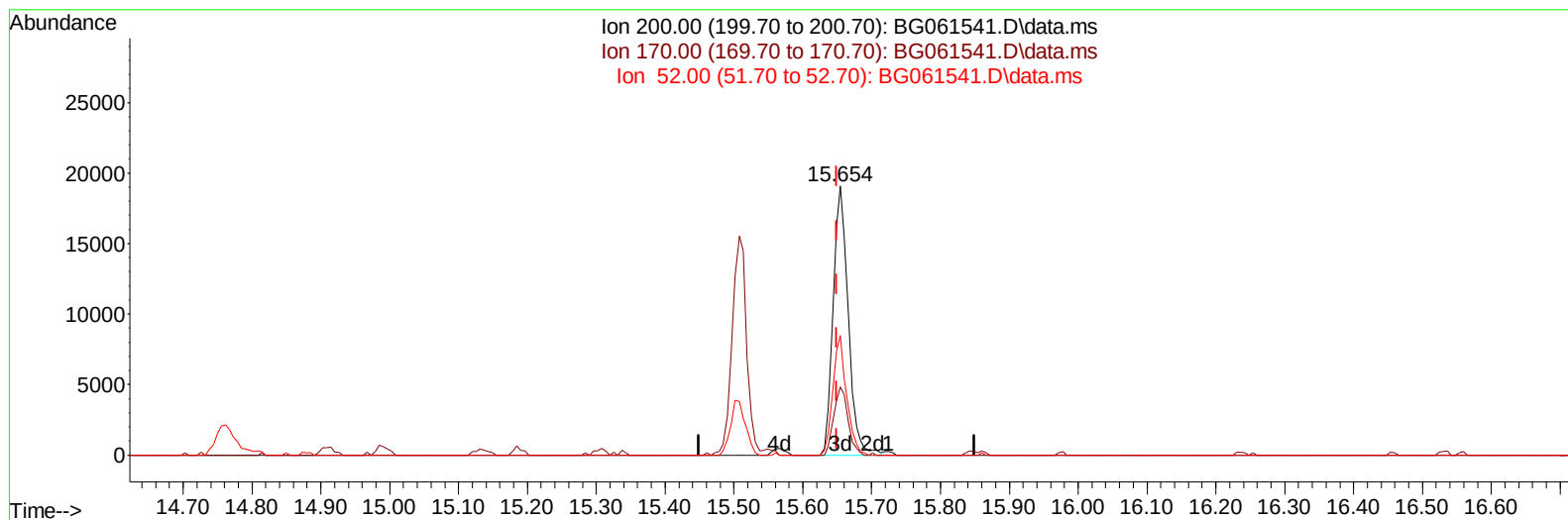
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
 Data File : BG061541.D  
 Acq On : 7 Jun 2024 20:20  
 Operator : MA/JU  
 Sample : P2640-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:14:39 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 06 12:15:45 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
 Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

(65) 4,6-Dinitro-2-methylphenol-d2 (S)

15.654min (+ 0.005) 29.12 ng/ul m

response 29068

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 200.00 | 100.00 | 100.00 |
| 170.00 | 25.30  | 25.48  |
| 52.00  | 60.50  | 44.56# |
| 0.00   | 0.00   | 0.00   |

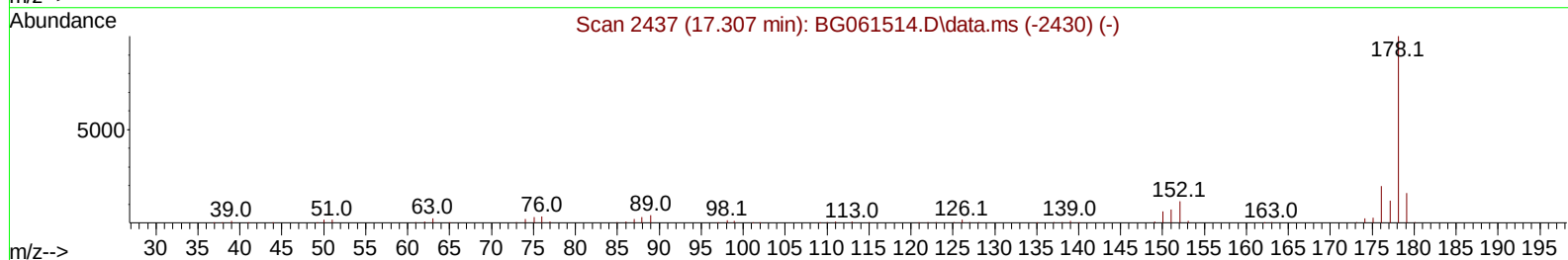
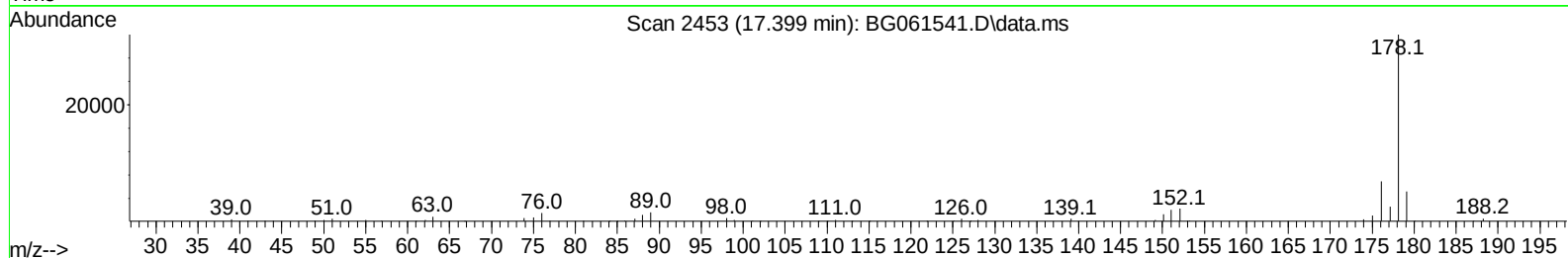
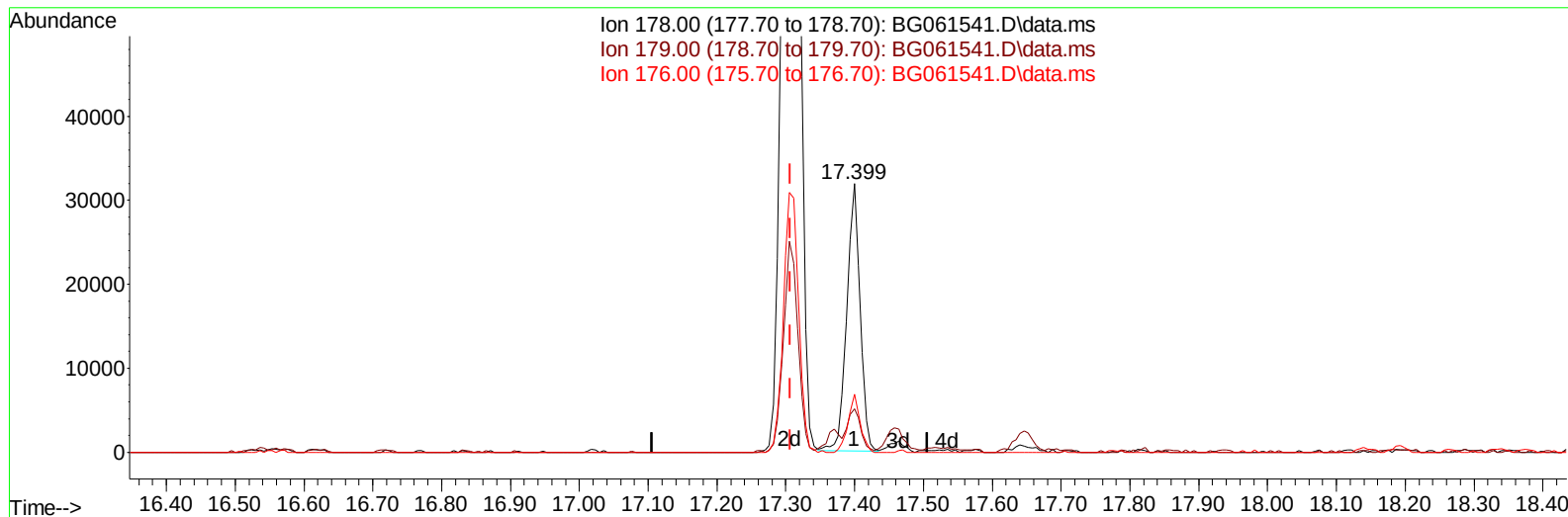
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:14:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

(72) Phenanthrene

17.399min (+ 0.093) 5.35 ng/u1

response 42871

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.90  | 16.25  |
| 176.00 | 19.40  | 21.67  |
| 0.00   | 0.00   | 0.00   |

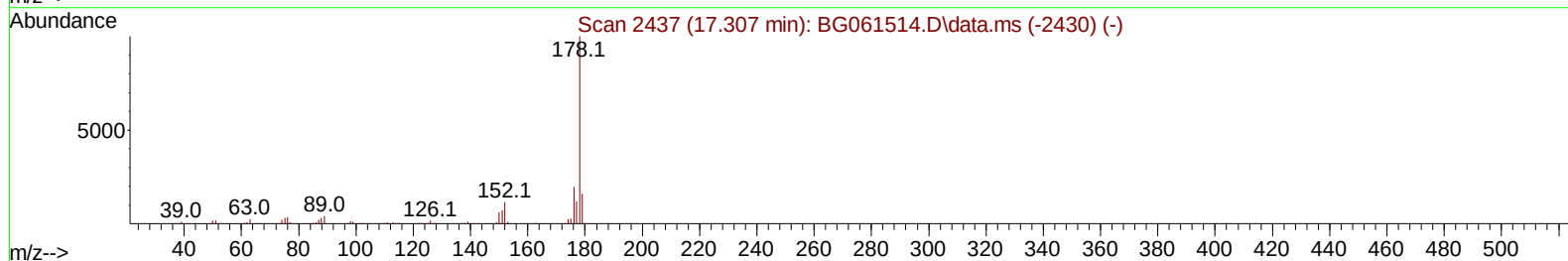
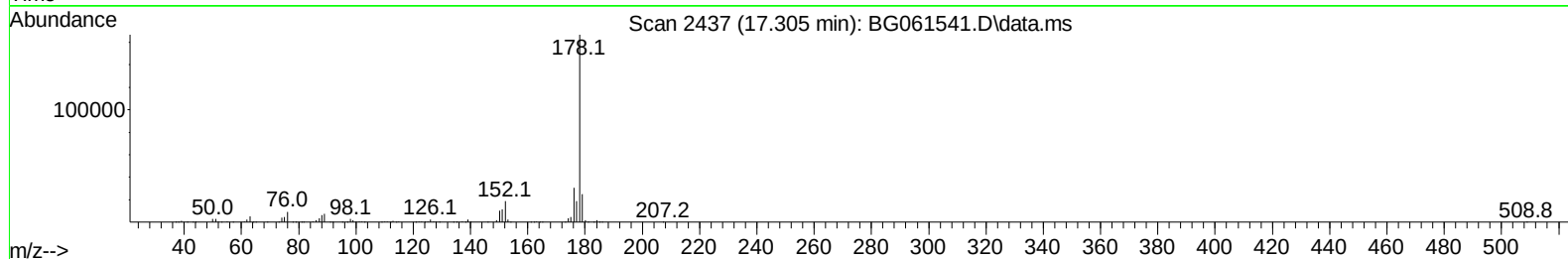
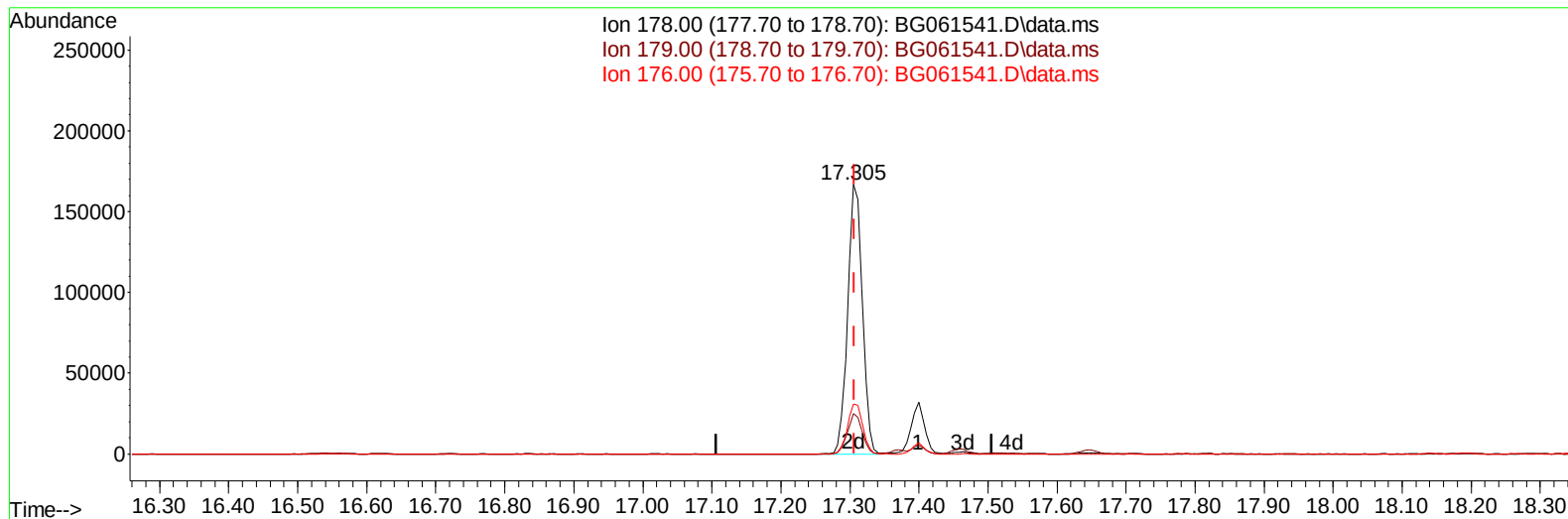
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:14:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

(72) Phenanthrene

17.305min (-0.001) 30.79 ng/ul m

response 246680

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 178.00 | 100.00 | 100.00 |
| 179.00 | 15.90  | 15.06  |
| 176.00 | 19.40  | 18.54  |
| 0.00   | 0.00   | 0.00   |

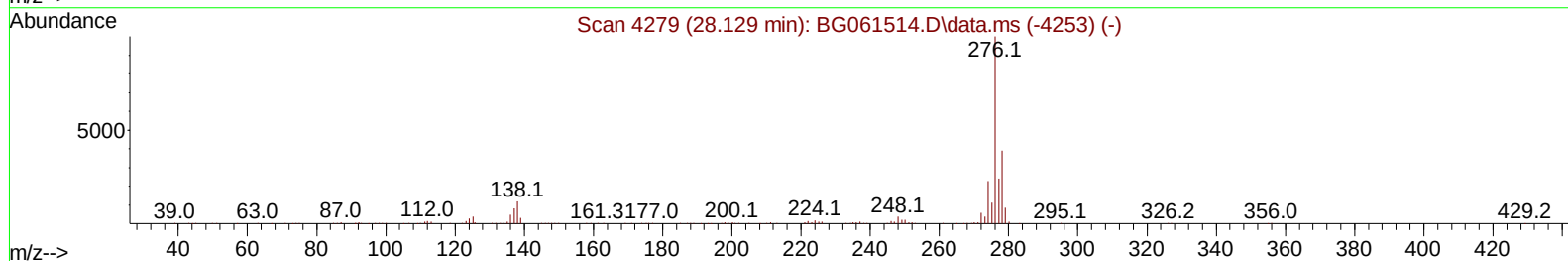
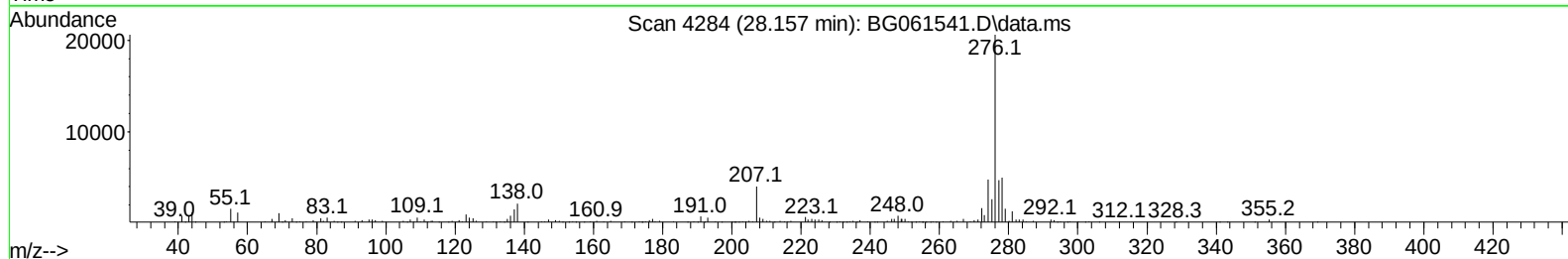
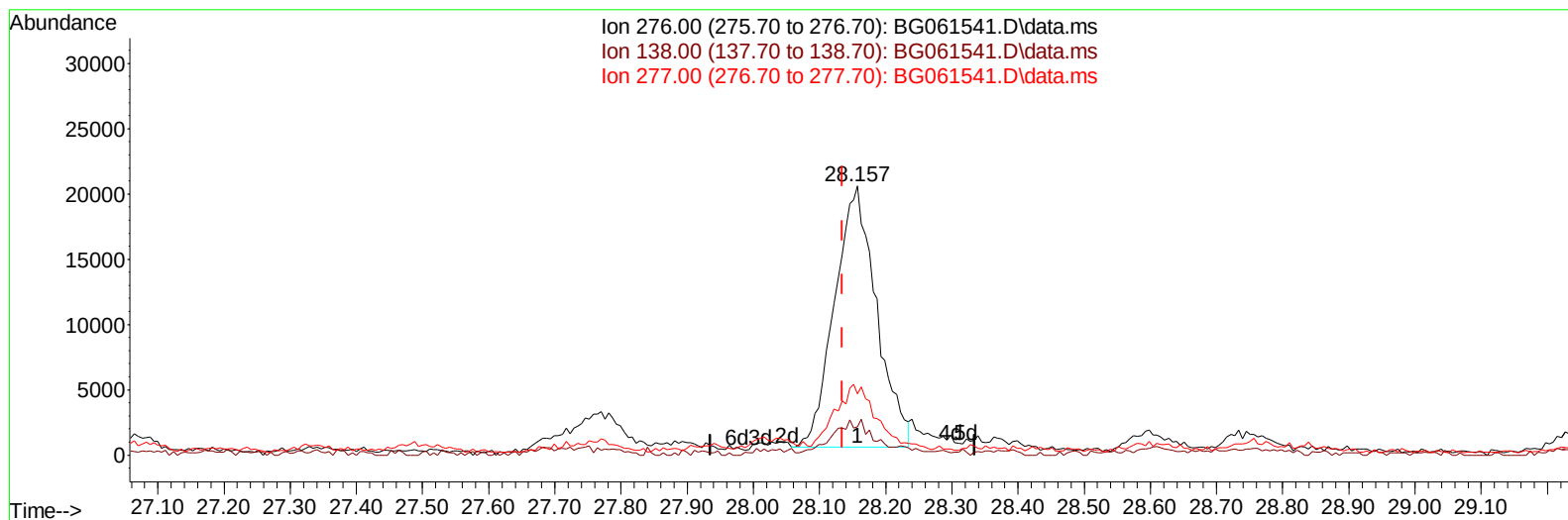
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:15:27 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

**(94) Indeno(1,2,3-cd)pyrene**

**28.157min (+ 0.023) 6.15 ng/u1**

**response 87783**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.80  | 10.50  |
| 277.00 | 24.60  | 22.78  |
| 0.00   | 0.00   | 0.00   |

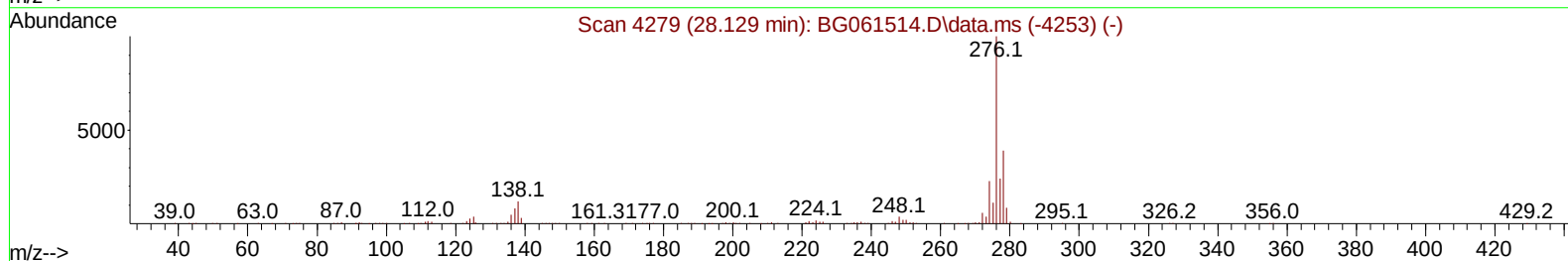
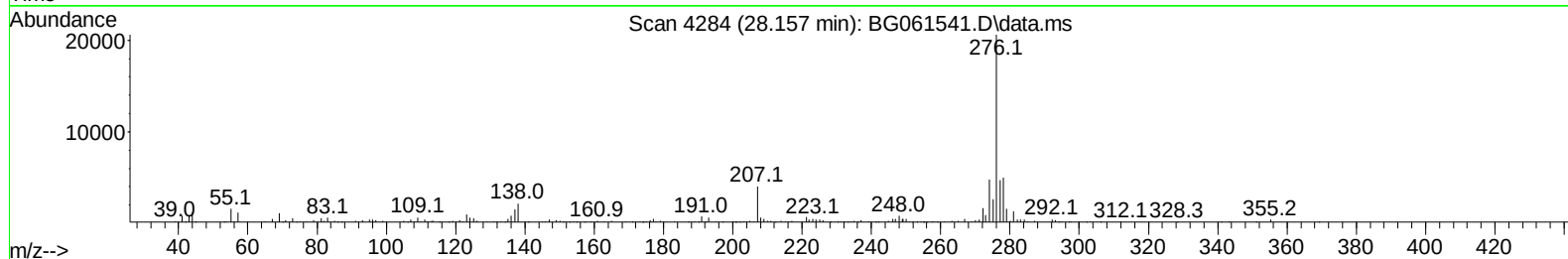
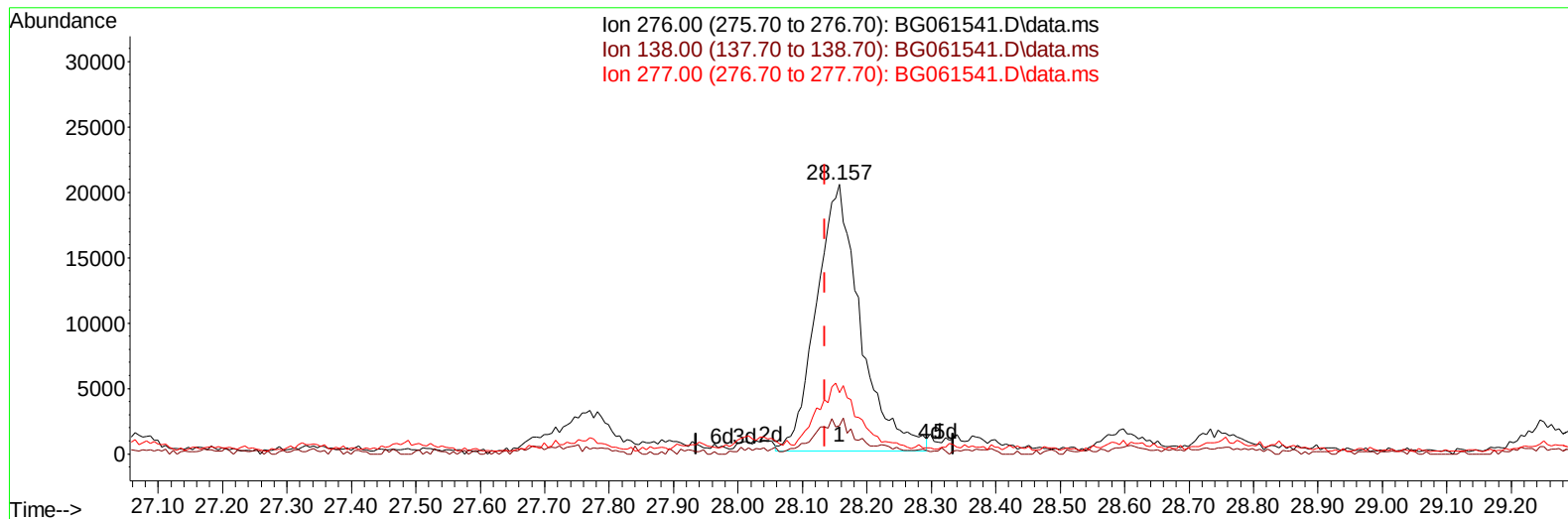
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
 Data File : BG061541.D  
 Acq On : 7 Jun 2024 20:20  
 Operator : MA/JU  
 Sample : P2640-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:15:27 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 06 12:15:45 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
 Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

**(94) Indeno(1,2,3-cd)pyrene**

**28.157min (+ 0.023) 6.79 ng/ul m**

**response 96854**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.80  | 10.50  |
| 277.00 | 24.60  | 22.78  |
| 0.00   | 0.00   | 0.00   |



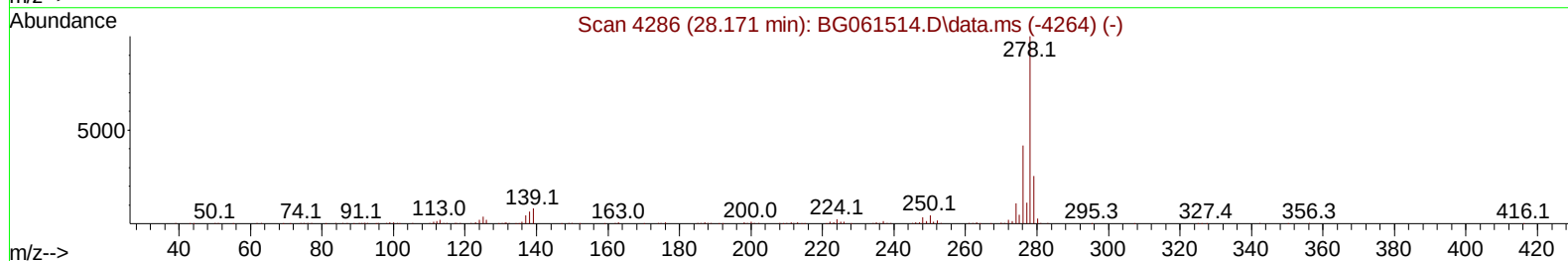
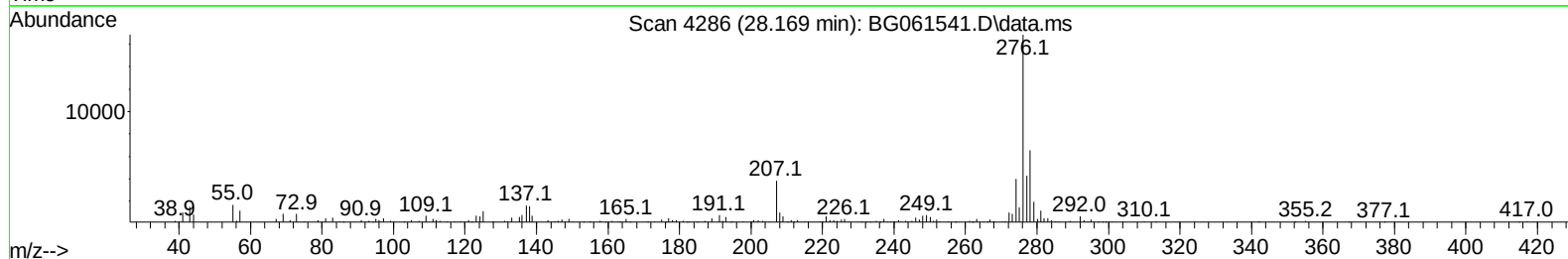
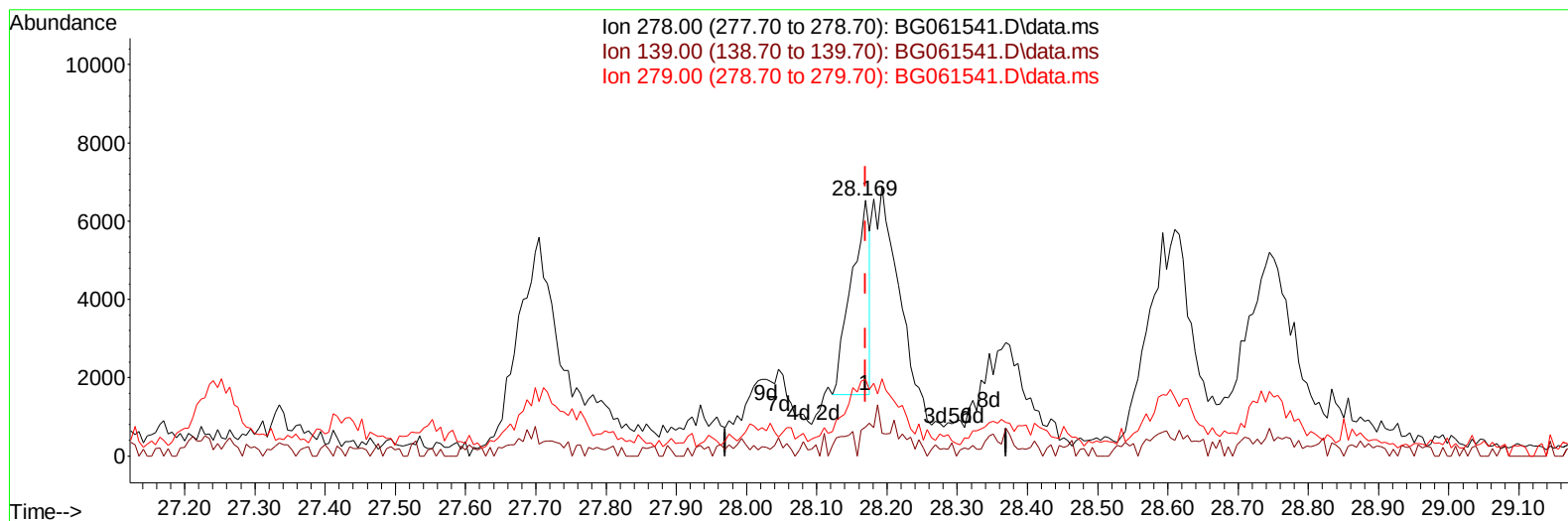
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:16:05 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

(95) Dibenzo(a,h)anthracene

28.169min (-0.001) 0.78 ng/u1

response 9166

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 8.00   | 11.21# |
| 279.00 | 24.90  | 29.83  |
| 0.00   | 0.00   | 0.00   |

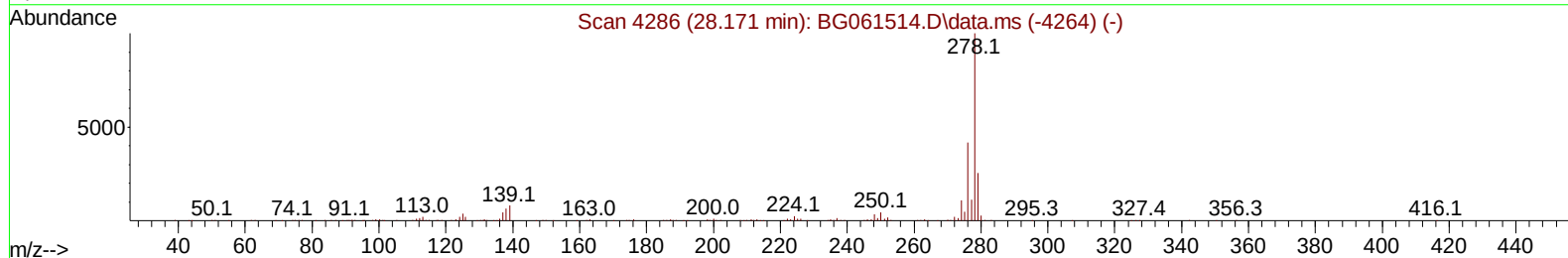
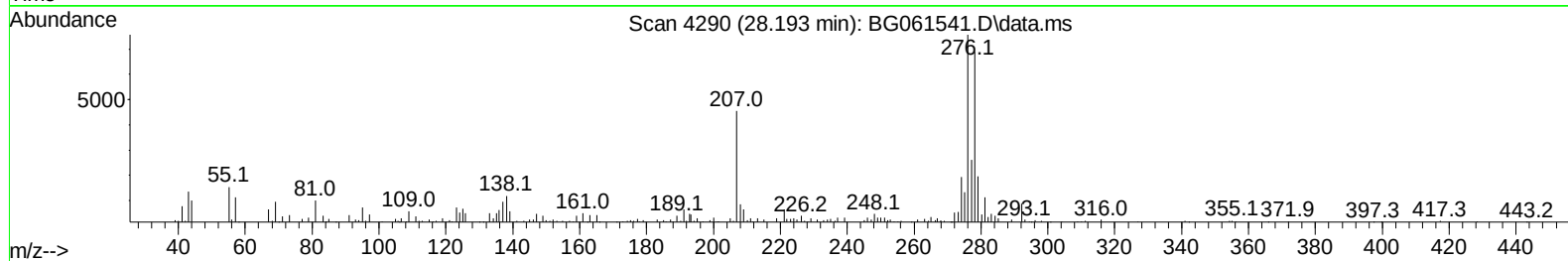
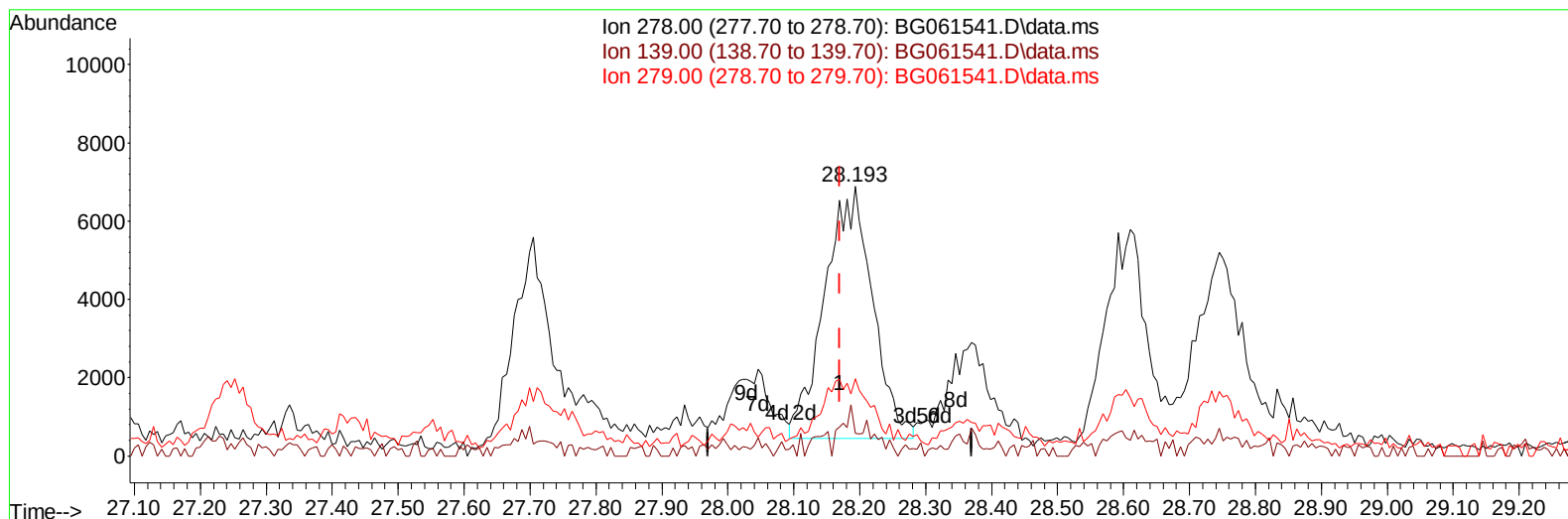
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
 Data File : BG061541.D  
 Acq On : 7 Jun 2024 20:20  
 Operator : MA/JU  
 Sample : P2640-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:16:05 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 06 12:15:45 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
 Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

**(95) Dibenzo(a,h)anthracene**

28.193min (+ 0.023) 2.74 ng/ul m

response 32244

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 8.00   | 8.50   |
| 279.00 | 24.90  | 28.59  |
| 0.00   | 0.00   | 0.00   |

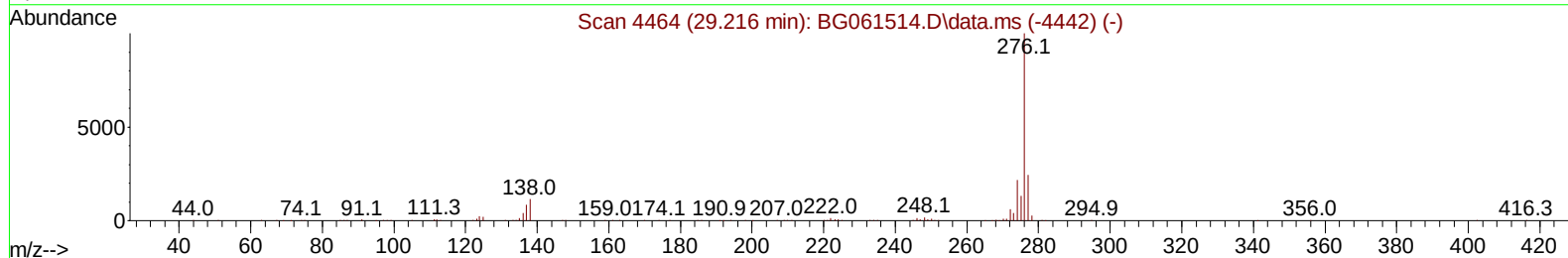
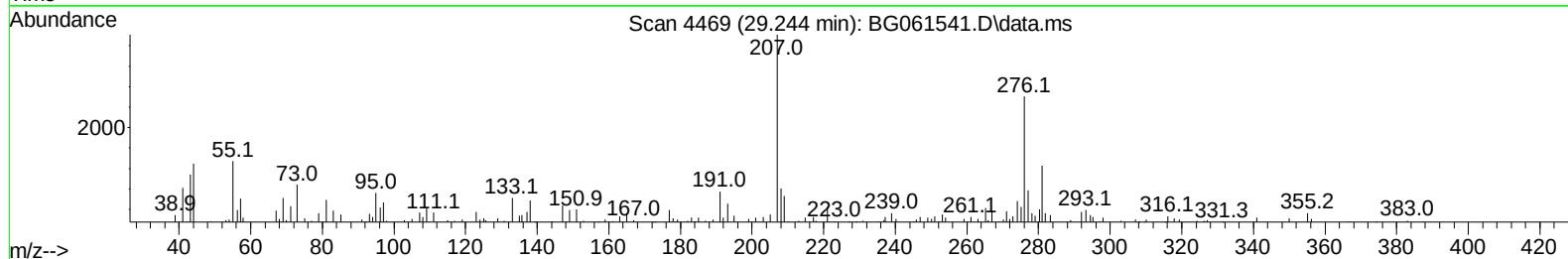
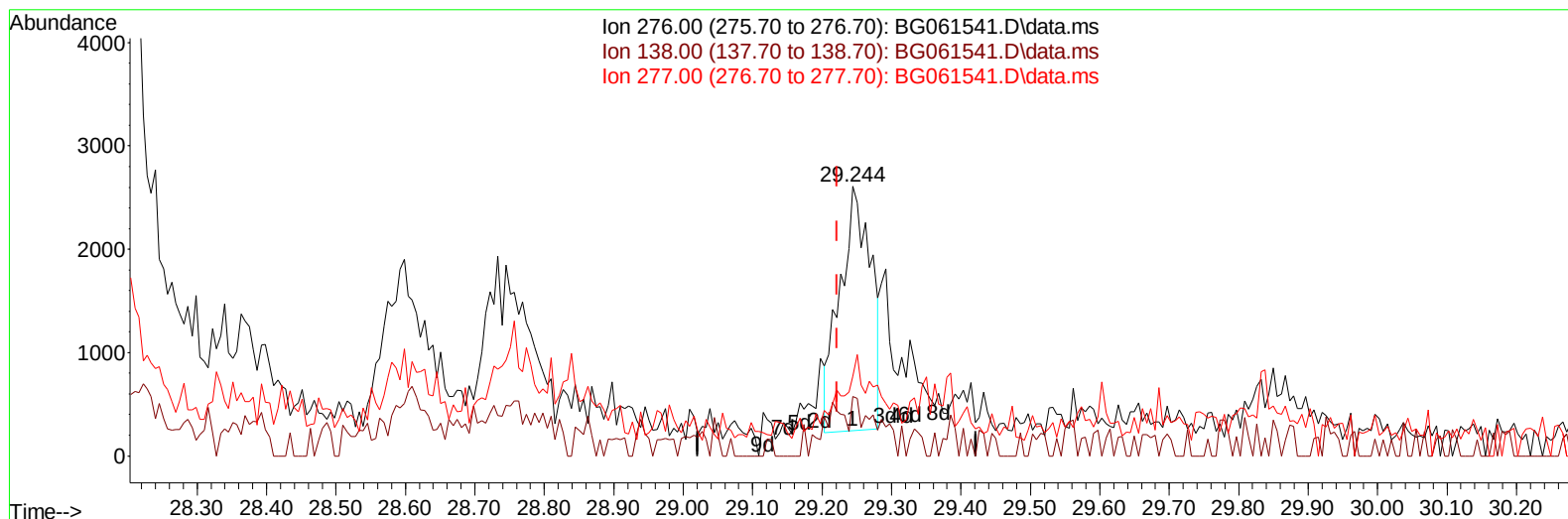
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:16:36 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

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

29.244min (+ 0.023) 0.64 ng/u1

response 7261

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.90  | 21.98# |
| 277.00 | 22.70  | 29.57# |
| 0.00   | 0.00   | 0.00   |

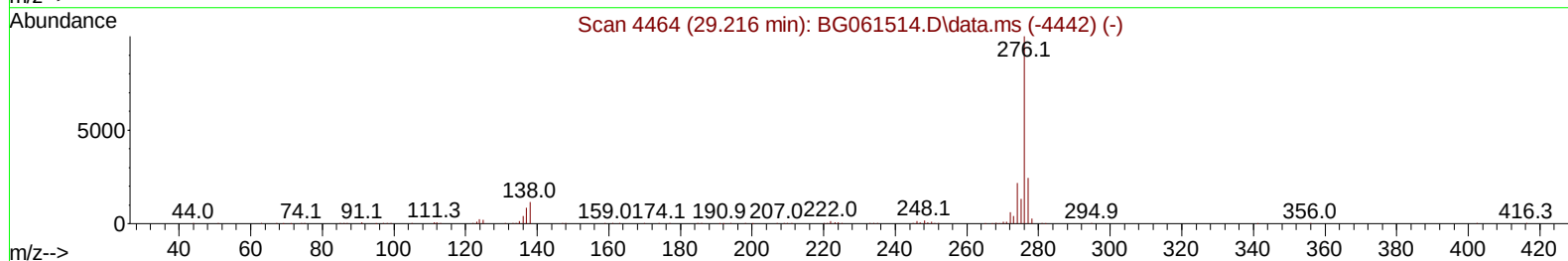
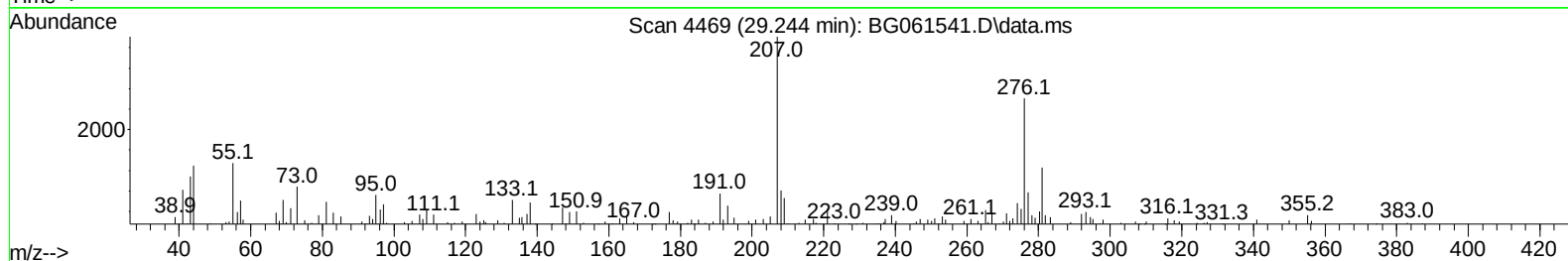
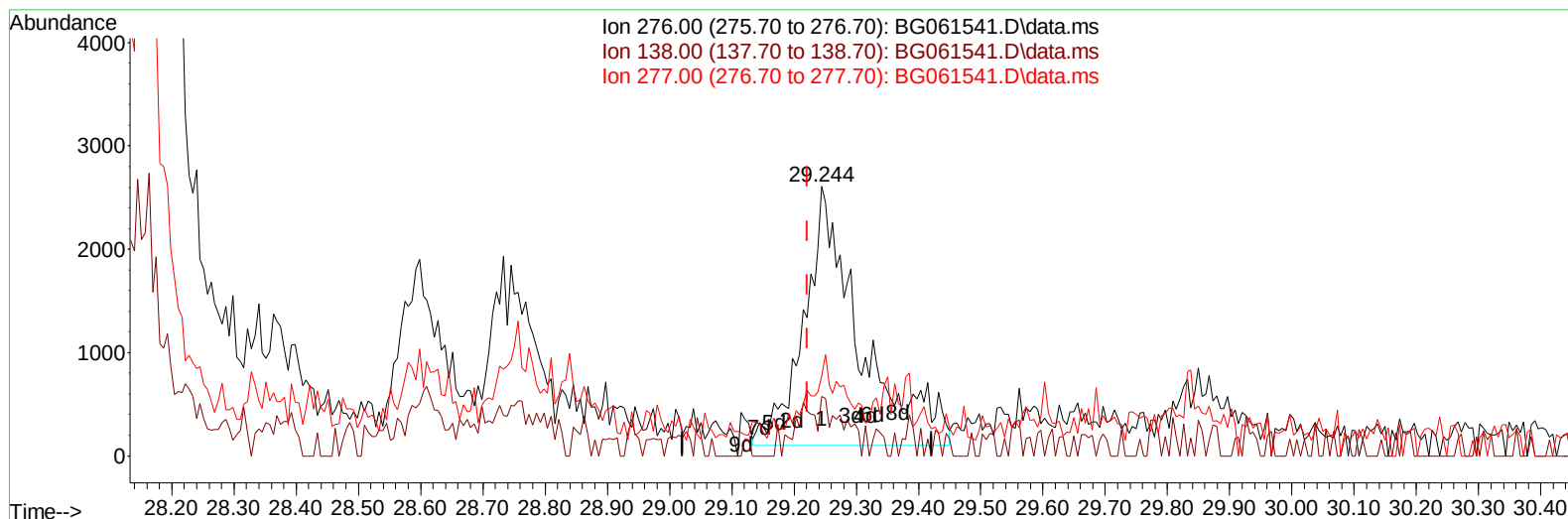
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:16:36 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024



TIC: BG061541.D\data.ms

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

29.244min (+ 0.023) 1.37 ng/ul m

response 15587

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.90  | 21.98# |
| 277.00 | 22.70  | 29.57# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
 Data File : BG061541.D  
 Acq On : 7 Jun 2024 20:20  
 Operator : MA/JU  
 Sample : P2640-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4C15

Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:17:12 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 06 12:15:45 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
 Supervised By :mohammad ahmed 06/10/2024

| Compound                      | R.T.   | Q   | Ion | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|-----|-----|----------|--------|--------|----------|
| -----                         |        |     |     |          |        |        |          |
| Internal Standards            |        |     |     |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.869  | 152 |     | 23458    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.666 | 136 |     | 93485    | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.509 | 164 |     | 72472    | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.264 | 188 |     | 165066m  | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.524 | 240 |     | 176947   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.626 | 264 |     | 208705   | 20.000 | ng/ul  | 0.02     |
| System Monitoring Compounds   |        |     |     |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.328  | 96  |     | 2328     | 5.554  | ng/uL  | -0.03    |
| 4) Pyridine-d5                | 3.733  | 84  |     | 17347    | 11.633 | ng/ul  | -0.04    |
| 7) Phenol-d5                  | 7.059  | 99  |     | 66012    | 34.267 | ng/ul  | -0.01    |
| 9) Bis-(2-Chloroethyl)eth...  | 7.200  | 67  |     | 37628    | 31.077 | ng/ul  | -0.01    |
| 11) 2-Chlorophenol-d4         | 7.411  | 132 |     | 54698    | 38.366 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.592  | 113 |     | 53286    | 32.440 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.033  | 128 |     | 28425    | 39.492 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.750  | 143 |     | 32363    | 38.419 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.308 | 165 |     | 67962    | 41.384 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.801 | 131 |     | 40557    | 18.877 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.915 | 166 |     | 210416   | 37.435 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.203 | 160 |     | 229850   | 39.334 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.761 | 143 |     | 21186    | 30.487 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.508 | 176 |     | 182664   | 37.641 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.654 | 200 |     | 29068m   | 29.116 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.364 | 188 |     | 296872   | 40.795 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.662 | 212 |     | 322891   | 35.539 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.415 | 264 |     | 275209   | 27.429 | ng/ul  | 0.02     |
| Target Compounds              |        |     |     |          |        |        |          |
|                               |        |     |     |          |        | Qvalue |          |
| 52) Acenaphthene              | 14.579 | 153 |     | 10234    | 2.408  | ng/ul  | 94       |
| 56) Dibenzofuran              | 14.908 | 168 |     | 8171     | 1.344  | ng/ul  | 99       |
| 61) Fluorene                  | 15.566 | 166 |     | 11879    | 2.259  | ng/ul  | 94       |
| 72) Phenanthrene              | 17.305 | 178 |     | 246680m  | 30.790 | ng/ul  |          |
| 74) Anthracene                | 17.399 | 178 |     | 42797    | 5.166  | ng/ul  | 95       |
| 77) Carbazole                 | 17.670 | 167 |     | 19710    | 2.925  | ng/ul  | 97       |
| 80) Fluoranthene              | 19.327 | 202 |     | 464894   | 42.654 | ng/ul  | 99       |
| 82) Pyrene                    | 19.691 | 202 |     | 340732   | 30.118 | ng/ul  | 97       |
| 85) Benzo(a)anthracene        | 21.506 | 228 |     | 216375   | 17.722 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.412 | 149 |     | 13216    | 2.297  | ng/ul  | 94       |
| 87) Chrysene                  | 21.571 | 228 |     | 225993   | 20.102 | ng/ul  | 97       |
| 90) Benzo(b)fluoranthene      | 23.651 | 252 |     | 288526   | 23.219 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.704 | 252 |     | 93230    | 7.391  | ng/ul  | 94       |
| 93) Benzo(a)pyrene            | 24.485 | 252 |     | 115055   | 9.751  | ng/ul# | 93       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.157 | 276 |     | 96854m   | 6.788  | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.193 | 278 |     | 32244m   | 2.741  | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.244 | 276 |     | 15587m   | 1.373  | ng/ul  |          |
| -----                         |        |     |     |          |        |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG060724\  
Data File : BG061541.D  
Acq On : 7 Jun 2024 20:20  
Operator : MA/JU  
Sample : P2640-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A4C15

## Manual IntegrationsAPPROVED

Quant Time: Jun 07 22:17:12 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 06 12:15:45 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 06/08/2024  
Supervised By :mohammad ahmed 06/10/2024

