

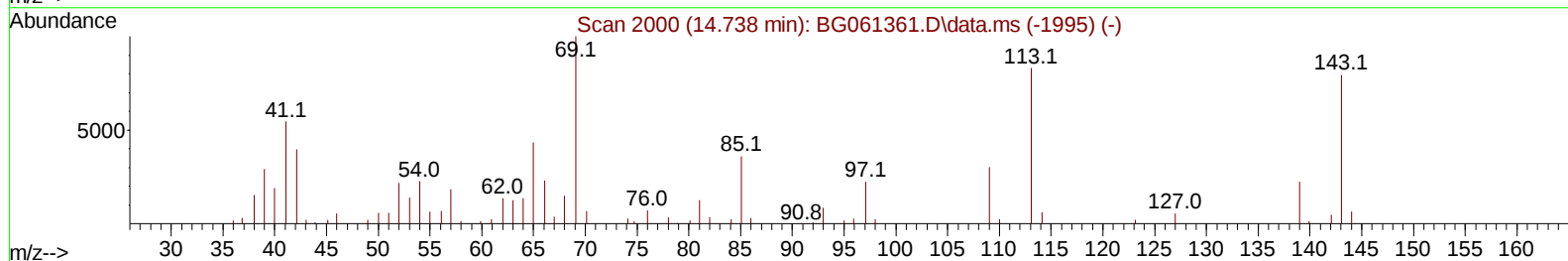
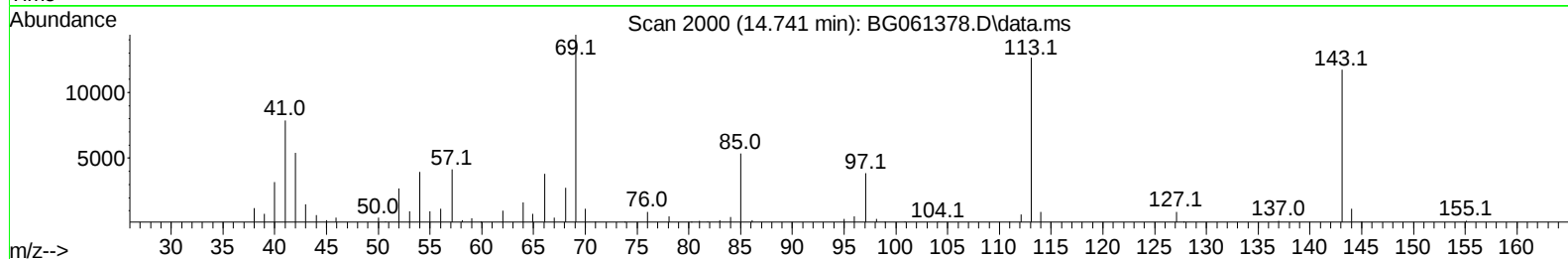
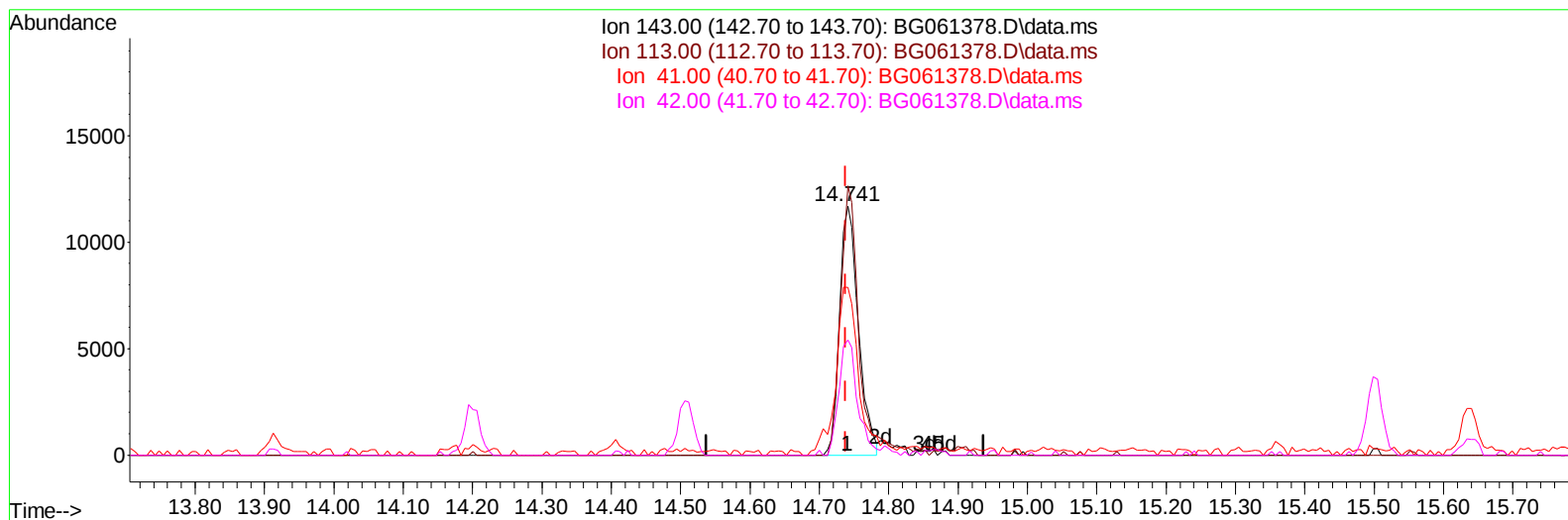
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061378.D  
Acq On : 31 May 2024 4:06  
Operator : MA/JU  
Sample : P2570-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:43:17 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

**(54) 4-Nitrophenol-d4 (S)**

**14.741min (+ 0.003) 25.30 ng/u1**

**response 21975**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100.00 | 100.00 |
| 113.00 | 122.20 | 107.94 |
| 41.00  | 77.10  | 67.33  |
| 42.00  | 49.50  | 46.15  |

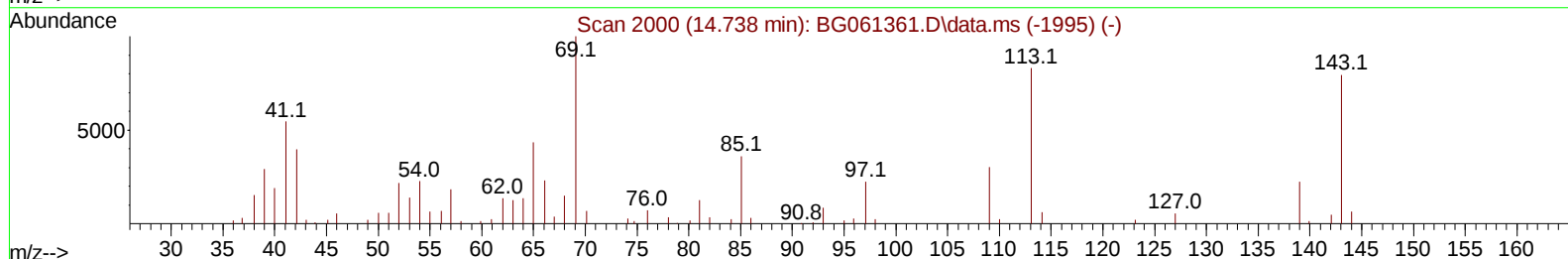
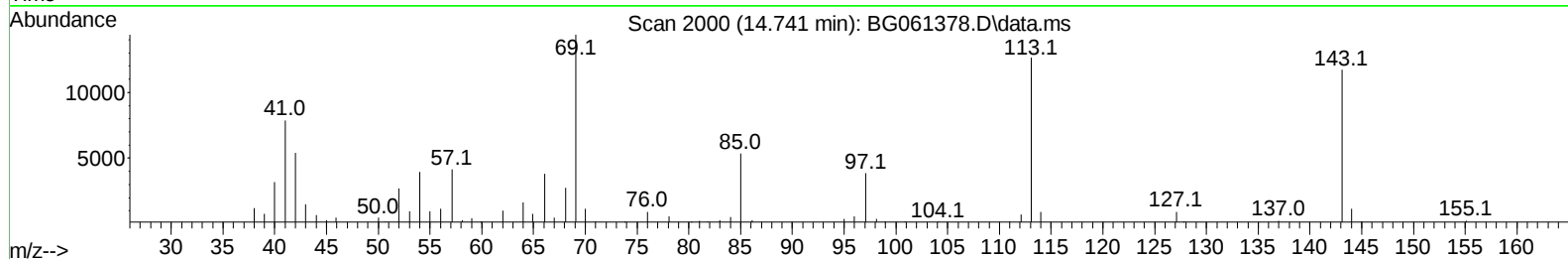
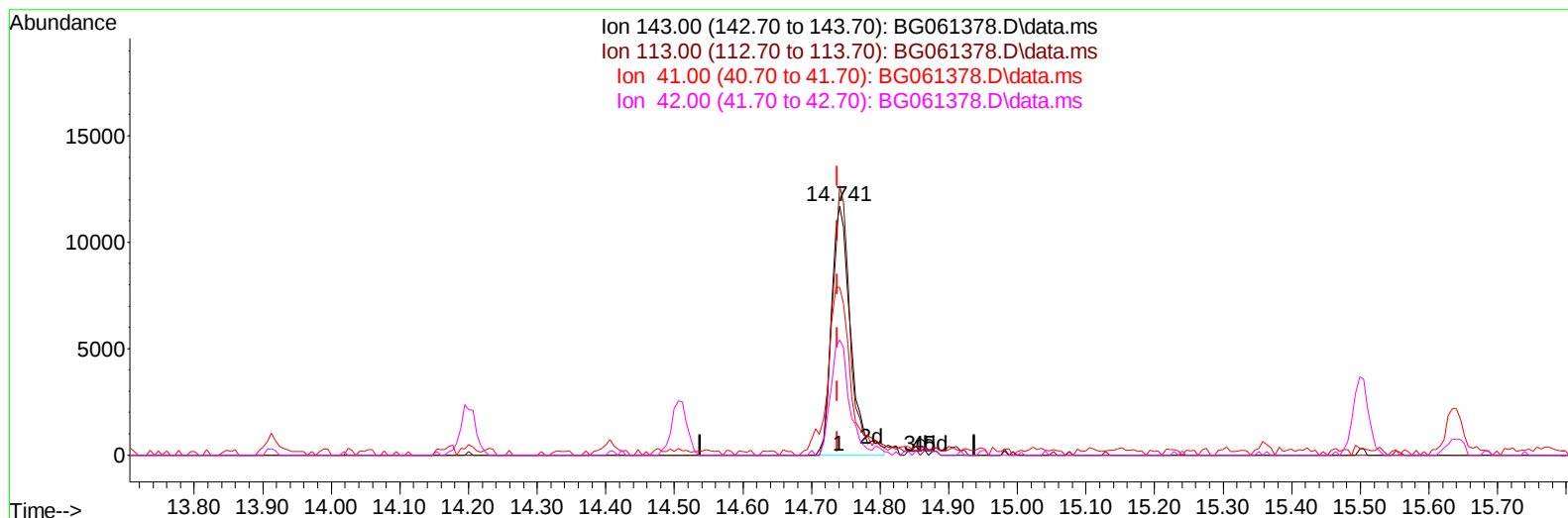
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061378.D  
Acq On : 31 May 2024 4:06  
Operator : MA/JU  
Sample : P2570-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:43:17 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

(54) 4-Nitrophenol-d4 (S)

14.741min (+ 0.003) 26.17 ng/ul m

response 22734

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100.00 | 100.00 |
| 113.00 | 122.20 | 107.94 |
| 41.00  | 77.10  | 67.33  |
| 42.00  | 49.50  | 46.15  |

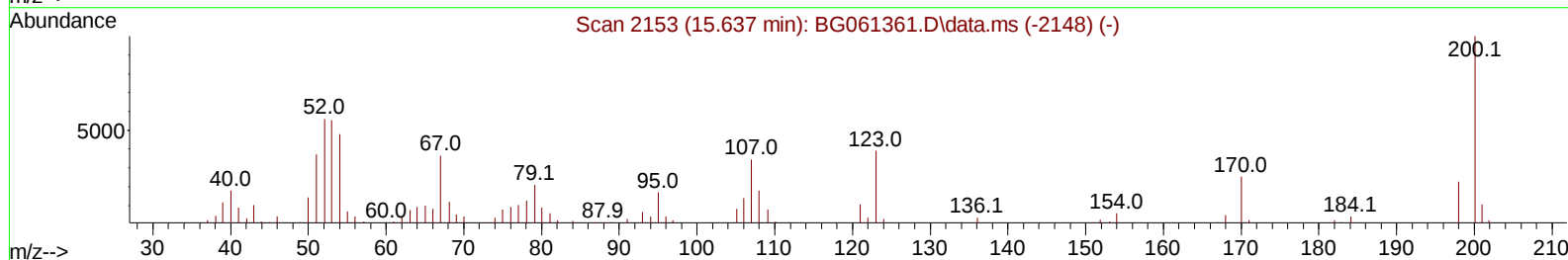
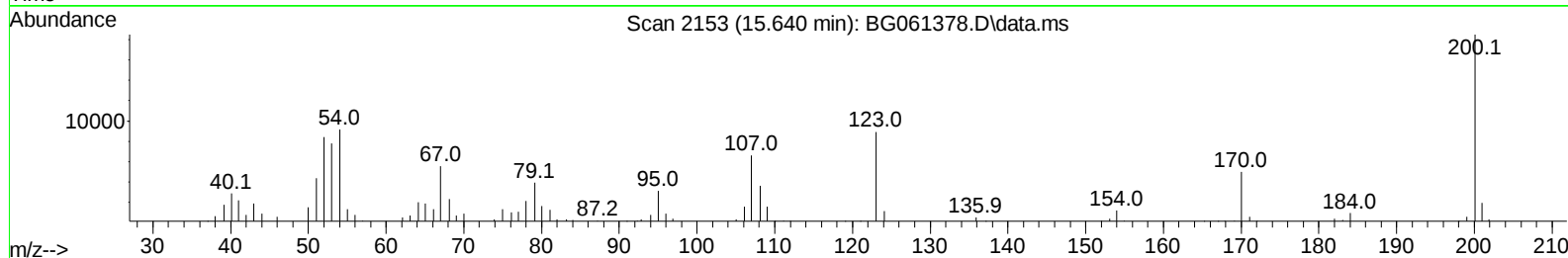
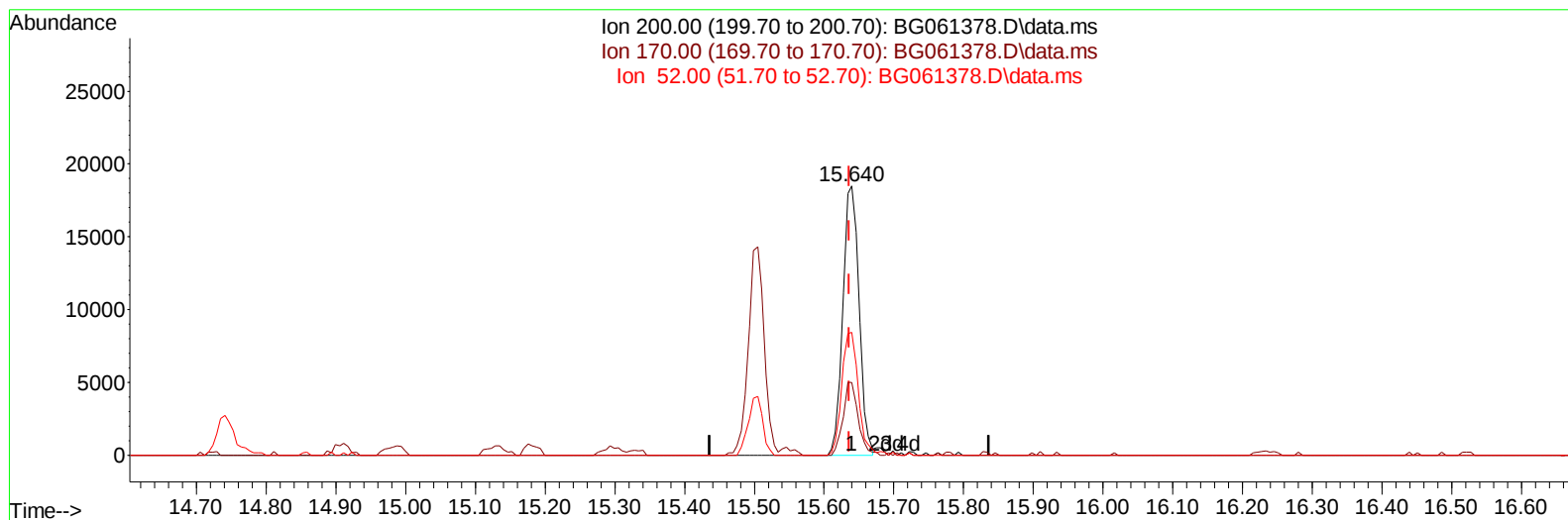
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061378.D  
 Acq On : 31 May 2024 4:06  
 Operator : MA/JU  
 Sample : P2570-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:43:17 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

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

15.640min (+ 0.003) 24.73 ng/u1

response 29644

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 200.00 | 100.00 | 100.00 |
| 170.00 | 25.30  | 27.10  |
| 52.00  | 60.50  | 45.65# |
| 0.00   | 0.00   | 0.00   |

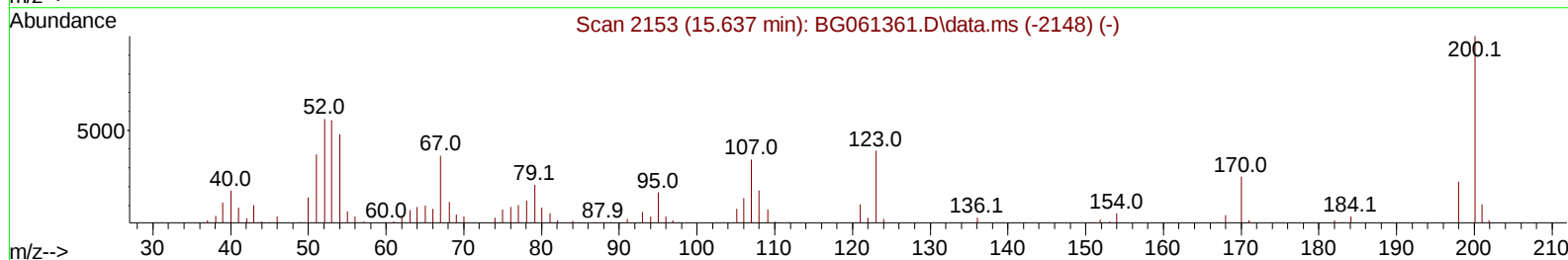
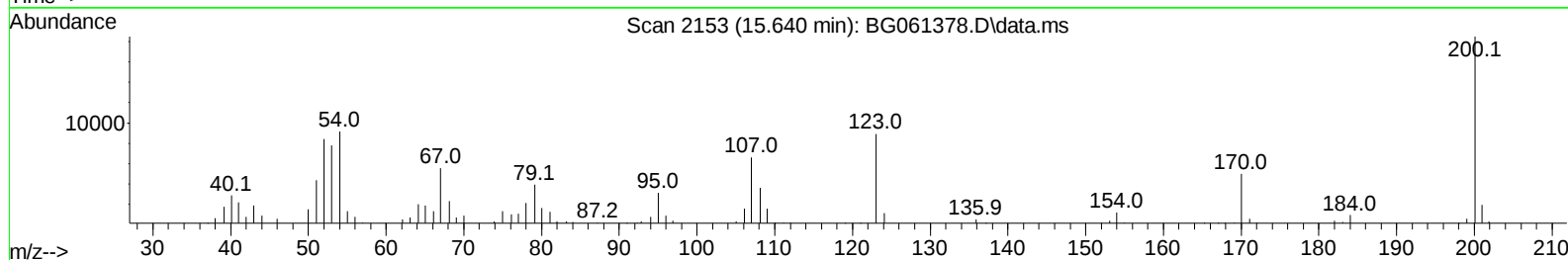
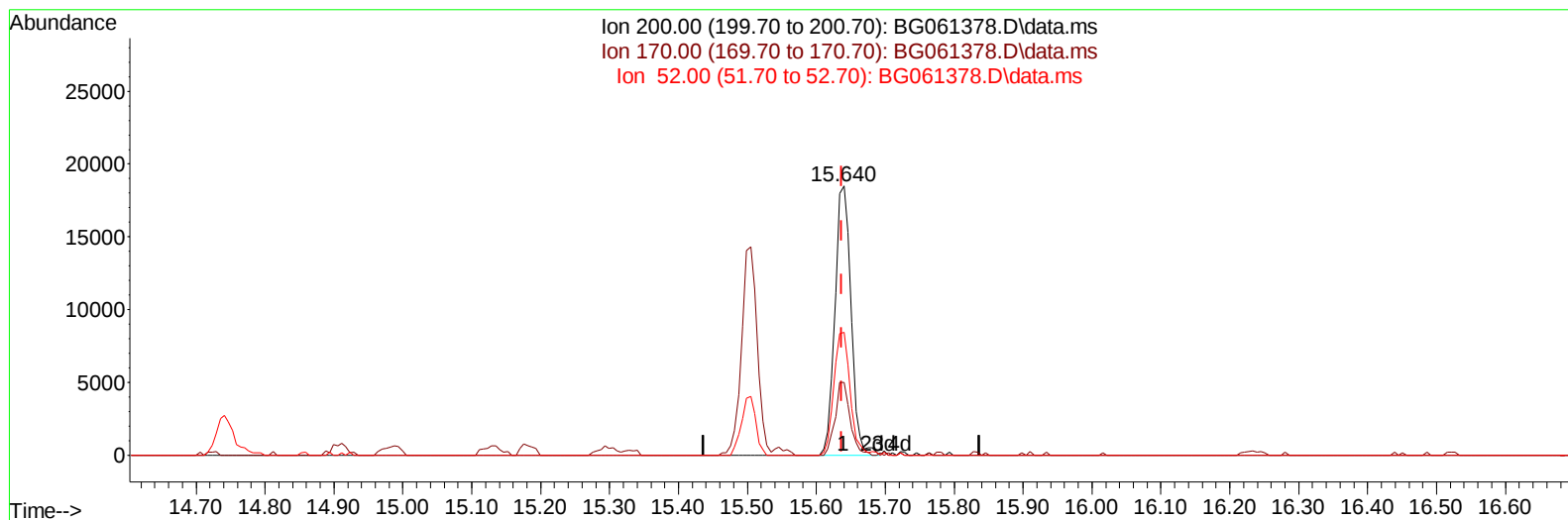
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061378.D  
 Acq On : 31 May 2024 4:06  
 Operator : MA/JU  
 Sample : P2570-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:43:17 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

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

15.640min (+ 0.003) 25.08 ng/ul m

response 30065

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 200.00 | 100.00 | 100.00 |
| 170.00 | 25.30  | 27.10  |
| 52.00  | 60.50  | 45.65# |
| 0.00   | 0.00   | 0.00   |

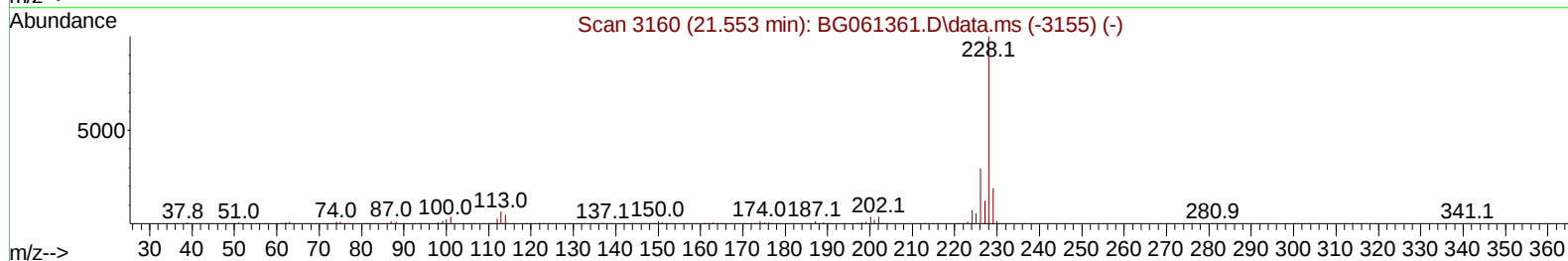
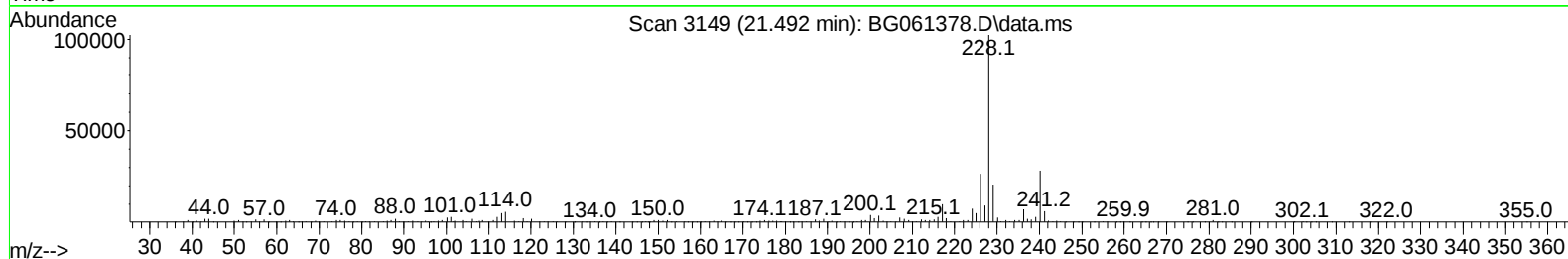
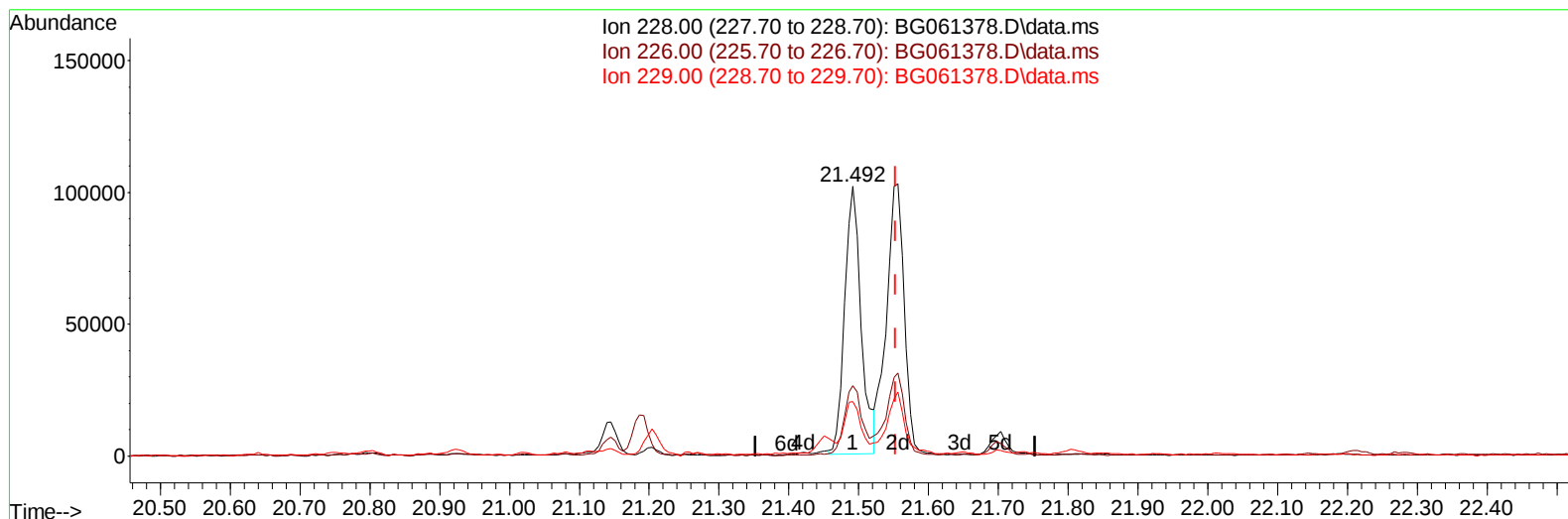
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061378.D  
 Acq On : 31 May 2024 4:06  
 Operator : MA/JU  
 Sample : P2570-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:43:17 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

(87) Chrysene

21.492min (-0.061) 12.39 ng/u1

response 165731

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 29.20  | 26.03  |
| 229.00 | 19.30  | 20.20  |
| 0.00   | 0.00   | 0.00   |

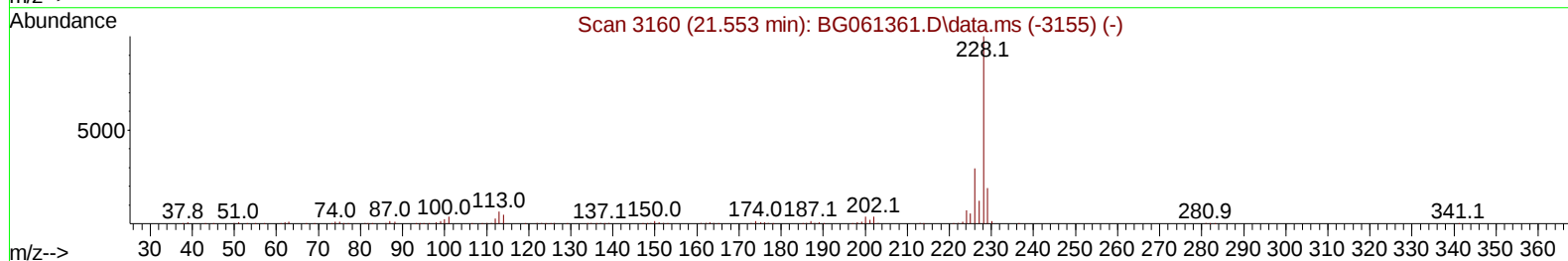
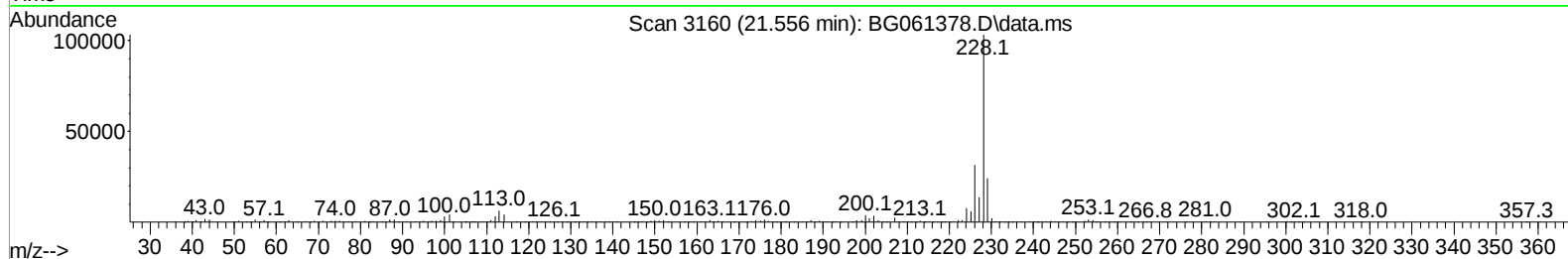
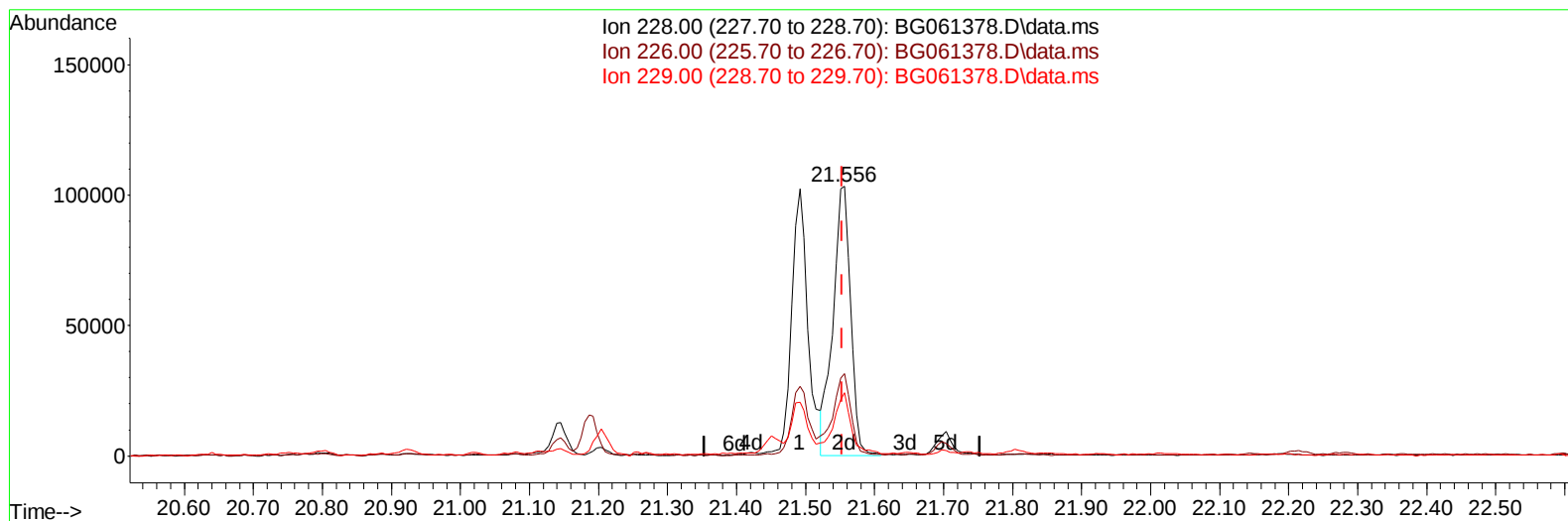
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061378.D  
Acq On : 31 May 2024 4:06  
Operator : MA/JU  
Sample : P2570-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:43:17 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

(87) Chrysene

21.556min (+ 0.003) 13.77 ng/ul m

response 184252

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 228.00 | 100.00 | 100.00 |
| 226.00 | 29.20  | 30.46  |
| 229.00 | 19.30  | 23.40# |
| 0.00   | 0.00   | 0.00   |

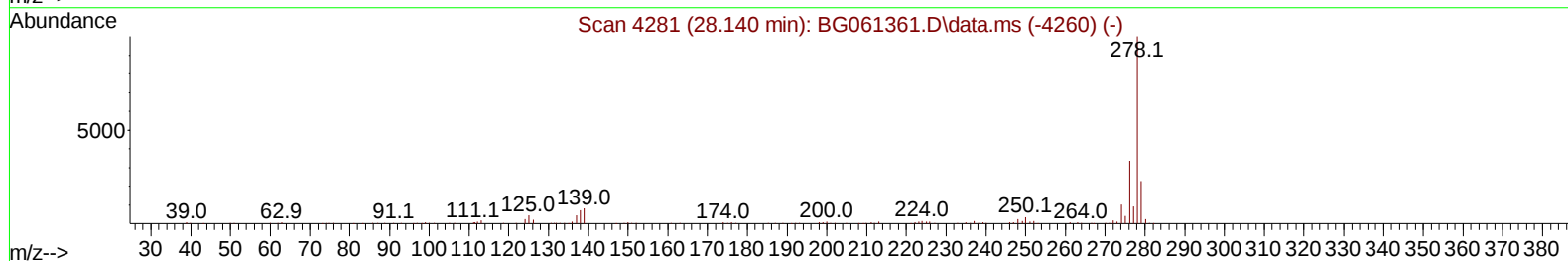
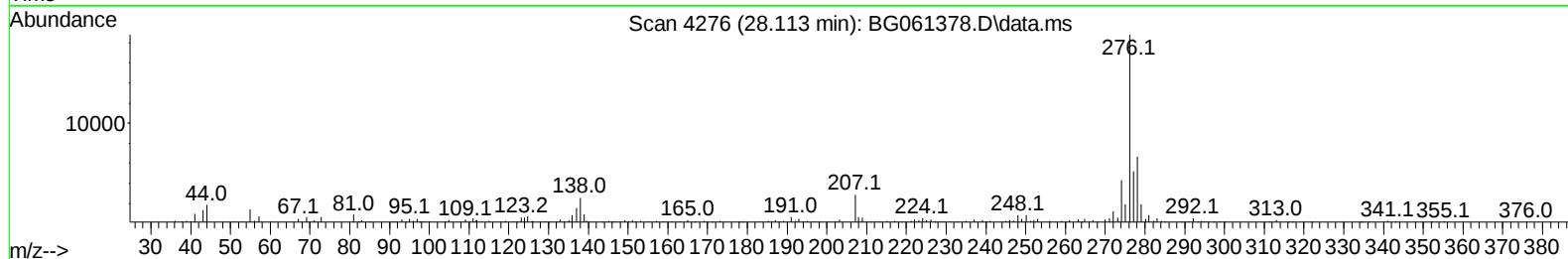
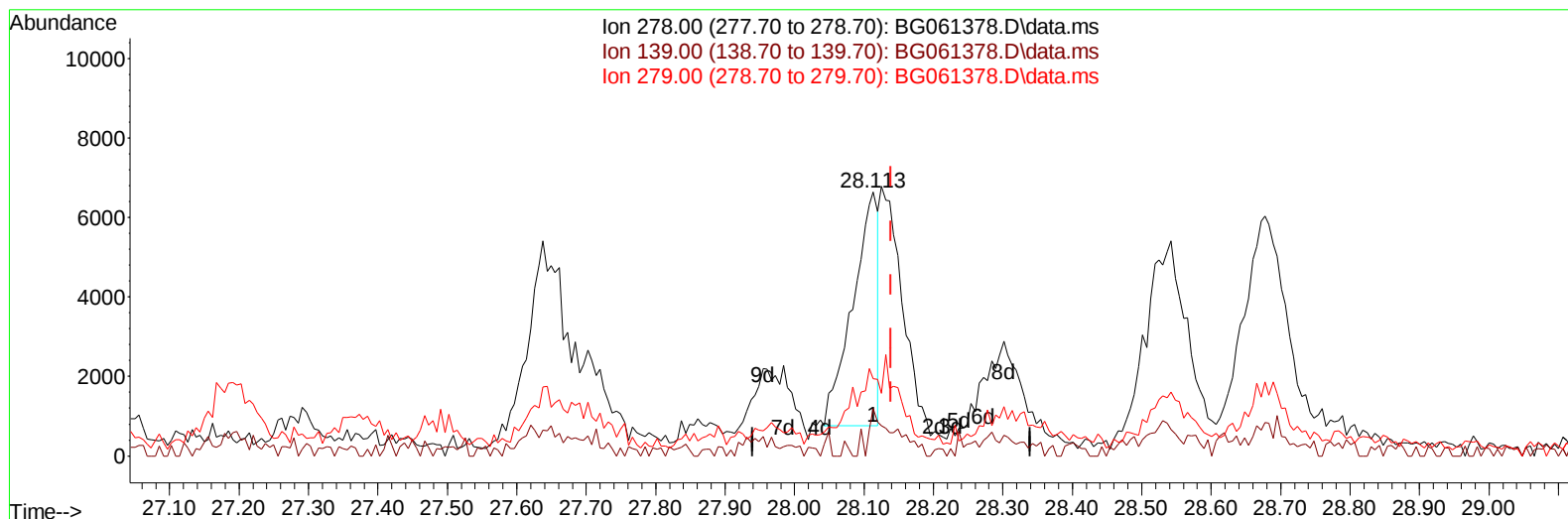
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061378.D  
Acq On : 31 May 2024 4:06  
Operator : MA/JU  
Sample : P2570-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:45:01 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

(95) Dibenzo(a,h)anthracene

28.113min (-0.026) 1.12 ng/u1

response 14842

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 8.00   | 18.03# |
| 279.00 | 24.90  | 29.32  |
| 0.00   | 0.00   | 0.00   |

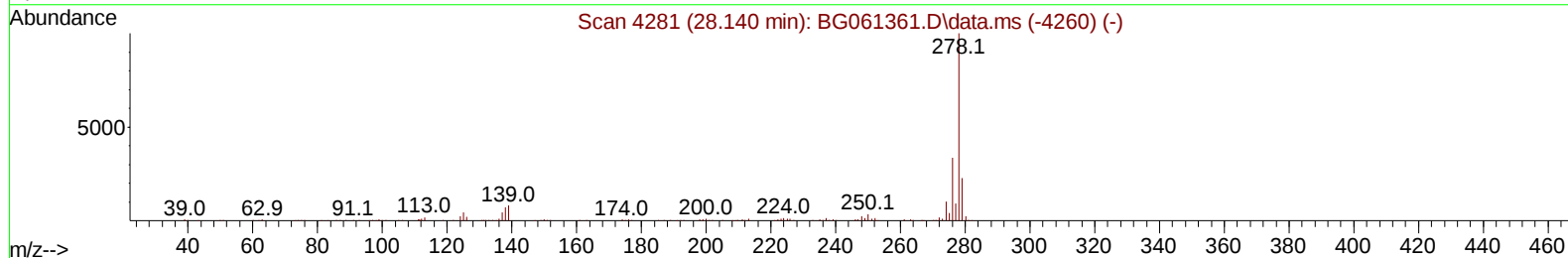
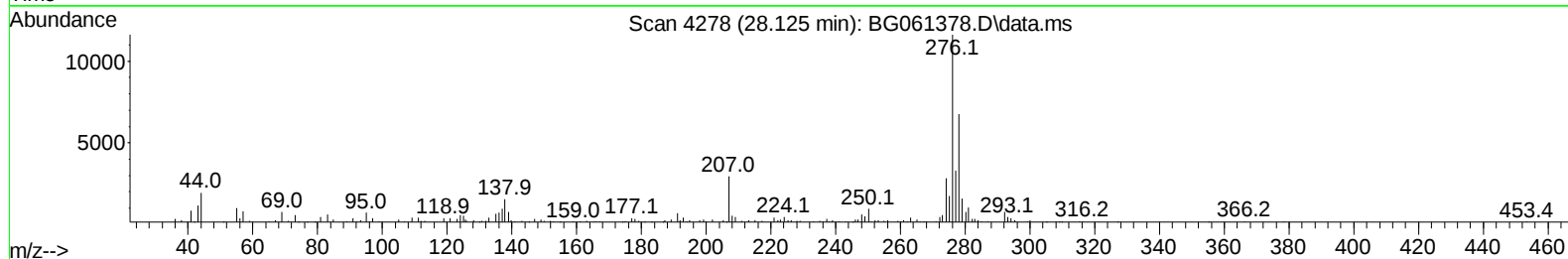
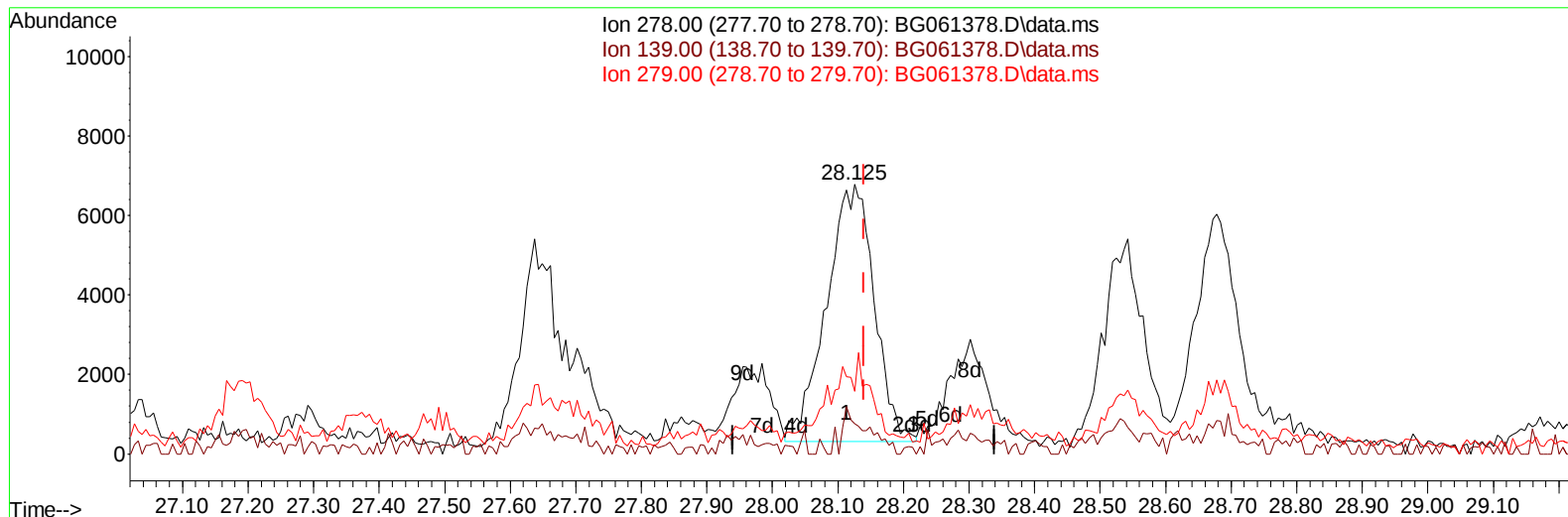
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061378.D  
Acq On : 31 May 2024 4:06  
Operator : MA/JU  
Sample : P2570-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:45:01 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

(95) Dibenzo(a,h)anthracene

28.125min (-0.014) 2.46 ng/ul m

response 32628

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 8.00   | 11.33# |
| 279.00 | 24.90  | 23.22  |
| 0.00   | 0.00   | 0.00   |

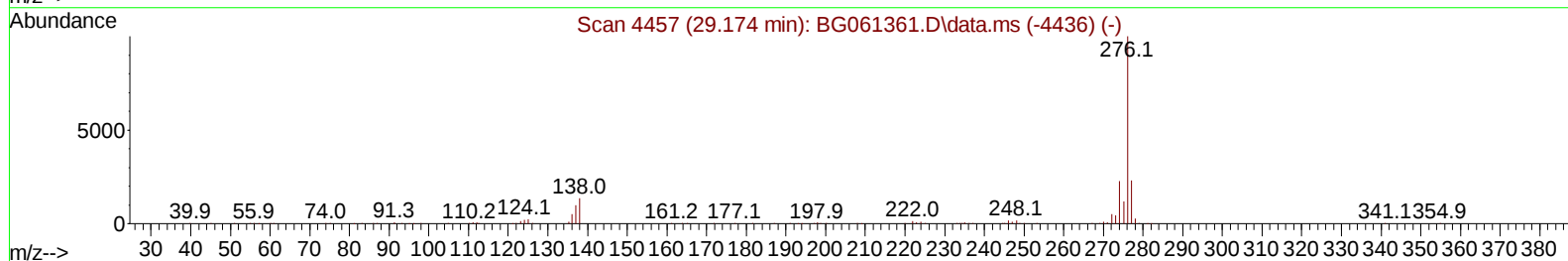
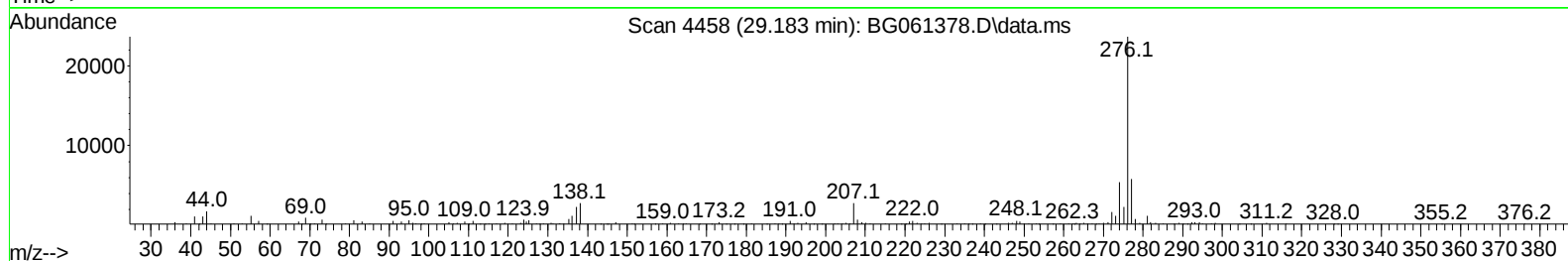
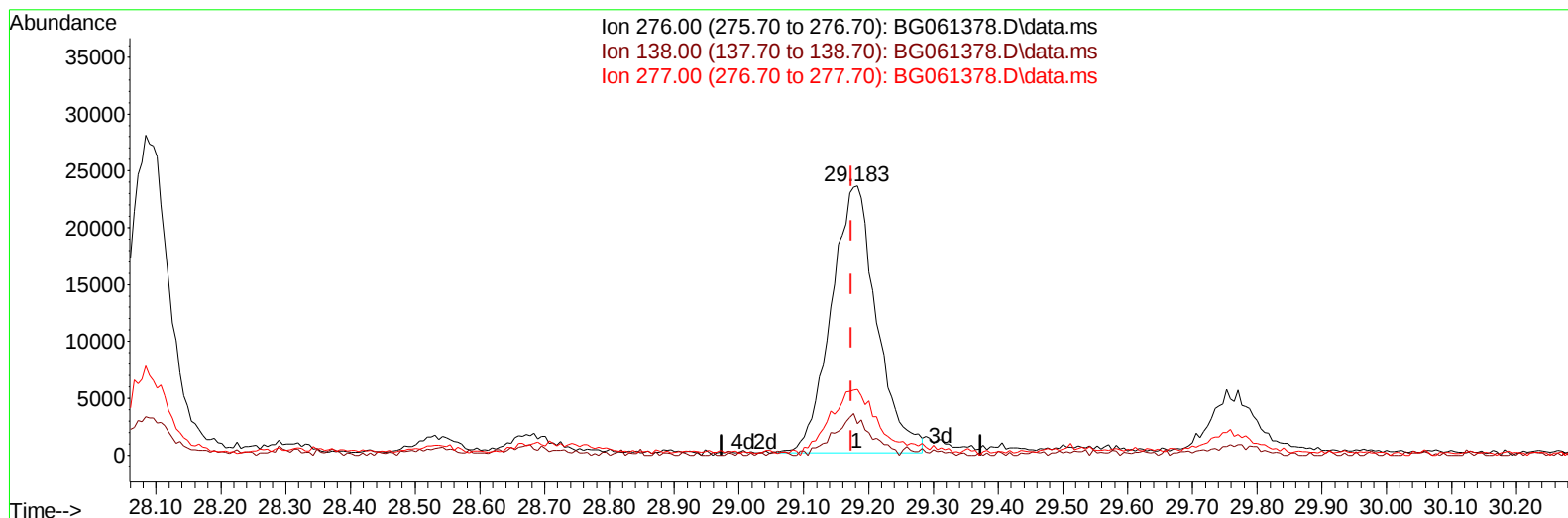
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
Data File : BG061378.D  
Acq On : 31 May 2024 4:06  
Operator : MA/JU  
Sample : P2570-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:45:37 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 30 22:54:48 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

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

29.183min (+ 0.009) 8.91 ng/u1

response 113822

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.90  | 11.62  |
| 277.00 | 22.70  | 24.49  |
| 0.00   | 0.00   | 0.00   |

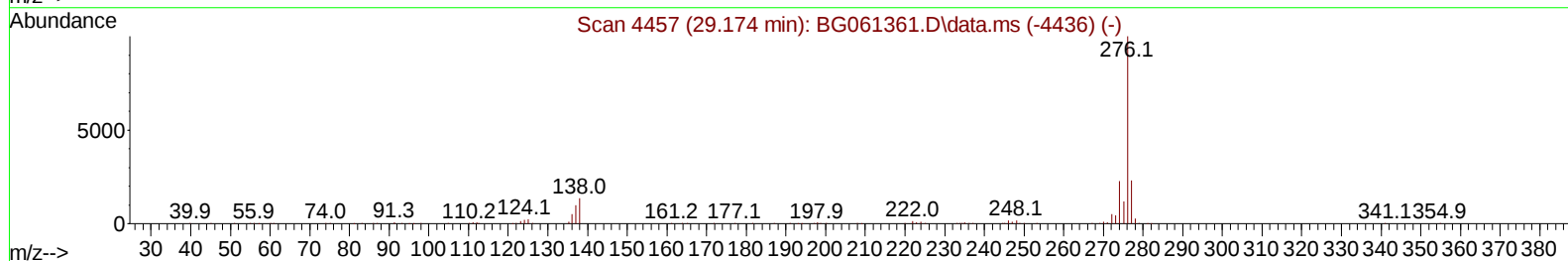
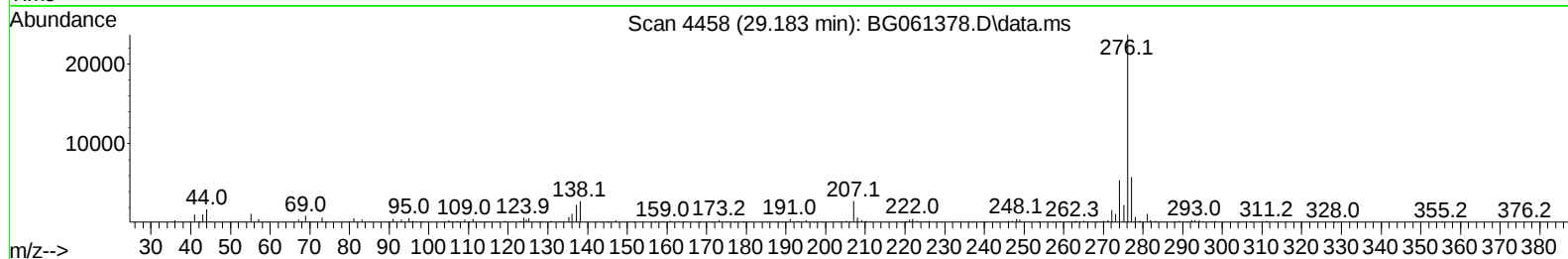
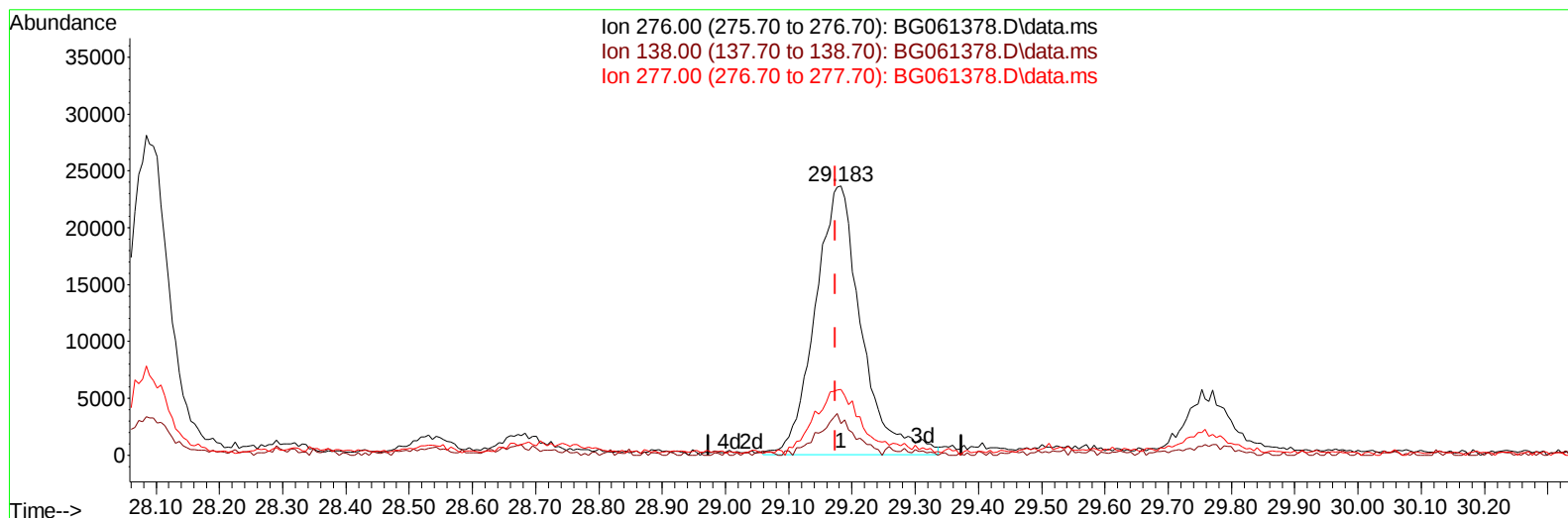
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061378.D  
 Acq On : 31 May 2024 4:06  
 Operator : MA/JU  
 Sample : P2570-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:45:37 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024



TIC: BG061378.D\data.ms

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

29.183min (+ 0.009) 9.36 ng/ul m

response 119629

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 10.90  | 11.62  |
| 277.00 | 22.70  | 24.49  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061378.D  
 Acq On : 31 May 2024 4:06  
 Operator : MA/JU  
 Sample : P2570-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B3

Manual IntegrationsAPPROVED

Quant Time: May 31 04:46:02 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024

| Compound                      | R.T.   | Q   | Ion | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|-----|-----|----------|--------|--------|----------|
| -----                         |        |     |     |          |        |        |          |
| Internal Standards            |        |     |     |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.872  | 152 |     | 32538    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.663 | 136 |     | 126331   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.506 | 164 |     | 90594    | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.256 | 188 |     | 198197   | 20.000 | ng/ul  | # 0.00   |
| 79) Chrysene-d12              | 21.509 | 240 |     | 210609   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.594 | 264 |     | 234990   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |     |     |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.337  | 96  |     | 2311     | 3.975  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.748  | 84  |     | 39953    | 19.315 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.062  | 99  |     | 64100    | 23.989 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.203  | 67  |     | 39114    | 23.289 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.414  | 132 |     | 50543    | 25.559 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.589  | 113 |     | 49441    | 21.700 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.030  | 128 |     | 26049    | 26.781 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.753  | 143 |     | 30563    | 26.849 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.299 | 165 |     | 61388    | 27.662 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.804 | 131 |     | 52541    | 18.097 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.912 | 166 |     | 199757   | 28.430 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.200 | 160 |     | 221311   | 30.297 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.741 | 143 |     | 22734m   | 26.171 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.505 | 176 |     | 174690   | 28.797 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.640 | 200 |     | 30065m   | 25.081 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.355 | 188 |     | 280751   | 32.130 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.653 | 212 |     | 337101   | 31.173 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.383 | 264 |     | 363966   | 32.217 | ng/ul  | 0.00     |
| Target Compounds              |        |     |     |          |        |        |          |
|                               |        |     |     |          |        | Qvalue |          |
| 52) Acenaphthene              | 14.570 | 153 |     | 6239     | 1.174  | ng/ul# | 84       |
| 72) Phenanthrene              | 17.297 | 178 |     | 153915   | 16.000 | ng/ul  | 99       |
| 74) Anthracene                | 17.391 | 178 |     | 18518    | 1.862  | ng/ul  | 94       |
| 77) Carbazole                 | 17.661 | 167 |     | 15100    | 1.866  | ng/ul# | 95       |
| 80) Fluoranthene              | 19.318 | 202 |     | 324567   | 25.019 | ng/ul  | 99       |
| 82) Pyrene                    | 19.682 | 202 |     | 289659   | 21.511 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.569 | 149 |     | 8871     | 1.918  | ng/ul  | 100      |
| 85) Benzo(a)anthracene        | 21.492 | 228 |     | 167011   | 11.493 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.404 | 149 |     | 58649    | 8.565  | ng/ul  | 99       |
| 87) Chrysene                  | 21.556 | 228 |     | 184252m  | 13.770 | ng/ul  |          |
| 90) Benzo(b)fluoranthene      | 23.619 | 252 |     | 260002   | 18.583 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.677 | 252 |     | 77925    | 5.486  | ng/ul  | 94       |
| 93) Benzo(a)pyrene            | 24.447 | 252 |     | 172062   | 12.951 | ng/ul# | 93       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.084 | 276 |     | 122247   | 7.609  | ng/ul  | 95       |
| 95) Dibenzo(a,h)anthracene    | 28.125 | 278 |     | 32628m   | 2.463  | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.183 | 276 |     | 119629m  | 9.360  | ng/ul  |          |
| -----                         |        |     |     |          |        |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG053024\  
 Data File : BG061378.D  
 Acq On : 31 May 2024 4:06  
 Operator : MA/JU  
 Sample : P2570-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BH6B3

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 05/31/2024  
 Supervised By :mohammad ahmed 06/01/2024

Quant Time: May 31 04:46:02 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 30 22:54:48 2024  
 Response via : Initial Calibration

