

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG071524\  
 Data File : BG062073.D  
 Acq On : 15 Jul 2024 18:01  
 Operator : MA/JU  
 Sample : P3100-19  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4D32

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/16/2024  
 Supervised By :mohammad ahmed 07/20/2024

Quant Time: Jul 15 23:32:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG070224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 11 12:11:32 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.040  | 152  | 45380    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.855 | 136  | 212106   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.674 | 164  | 143782   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.423 | 188  | 311509   | 20.000 | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 21.683 | 240  | 287274   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.903 | 264  | 368668   | 20.000 | ng/u1  | 0.02     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.440  | 96   | 5470     | 4.530  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.863  | 84   | 79551    | 21.424 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.212  | 99   | 143326   | 28.860 | ng/u1  | 0.02     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.365  | 67   | 79907    | 25.408 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.576  | 132  | 104223   | 30.595 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.757  | 113  | 100363   | 25.667 | ng/u1  | 0.01     |
| 21) Nitrobenzene-d5           | 9.210  | 128  | 54737    | 33.932 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.932  | 143  | 65183    | 35.384 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.479 | 165  | 122823   | 34.567 | ng/u1  | 0.01     |
| 31) 4-Chloroaniline-d4        | 10.996 | 131  | 25309    | 4.906  | ng/u1  | 0.01     |
| 46) Dimethylphthalate-d6      | 14.080 | 166  | 379693   | 32.121 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.374 | 160  | 424875   | 34.374 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.891 | 143  | 51351    | 27.203 | ng/u1  | 0.02     |
| 60) Fluorene-d10              | 15.667 | 176  | 330829   | 33.245 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.784 | 200  | 47861    | 29.255 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.517 | 188  | 496655   | 34.149 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.803 | 212  | 552912   | 32.722 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.680 | 264  | 638271   | 34.909 | ng/u1  | 0.02     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 72) Phenanthrene              | 17.465 | 178  | 60510    | 3.684  | ng/u1  | 94       |
| 80) Fluoranthene              | 19.468 | 202  | 162568   | 8.130  | ng/u1# | 92       |
| 82) Pyrene                    | 19.832 | 202  | 135454   | 6.558  | ng/u1# | 93       |
| 85) Benzo(a)anthracene        | 21.660 | 228  | 85059    | 4.089  | ng/u1  | 96       |
| 87) Chrysene                  | 21.730 | 228  | 91507    | 4.700  | ng/u1  | 95       |
| 90) Benzo(b)fluoranthene      | 23.869 | 252  | 135979   | 5.854  | ng/u1  | 93       |
| 91) Benzo(k)fluoranthene      | 23.933 | 252  | 63881m   | 2.758  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.750 | 252  | 99053m   | 4.503  | ng/u1  |          |
| 94) Indeno(1,2,3-cd)pyrene    | 28.563 | 276  | 81047m   | 2.883  | ng/u1  |          |
| 95) Dibenzo(a,h)anthracene    | 28.616 | 278  | 31277m   | 1.347  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 29.697 | 276  | 72572m   | 3.245  | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

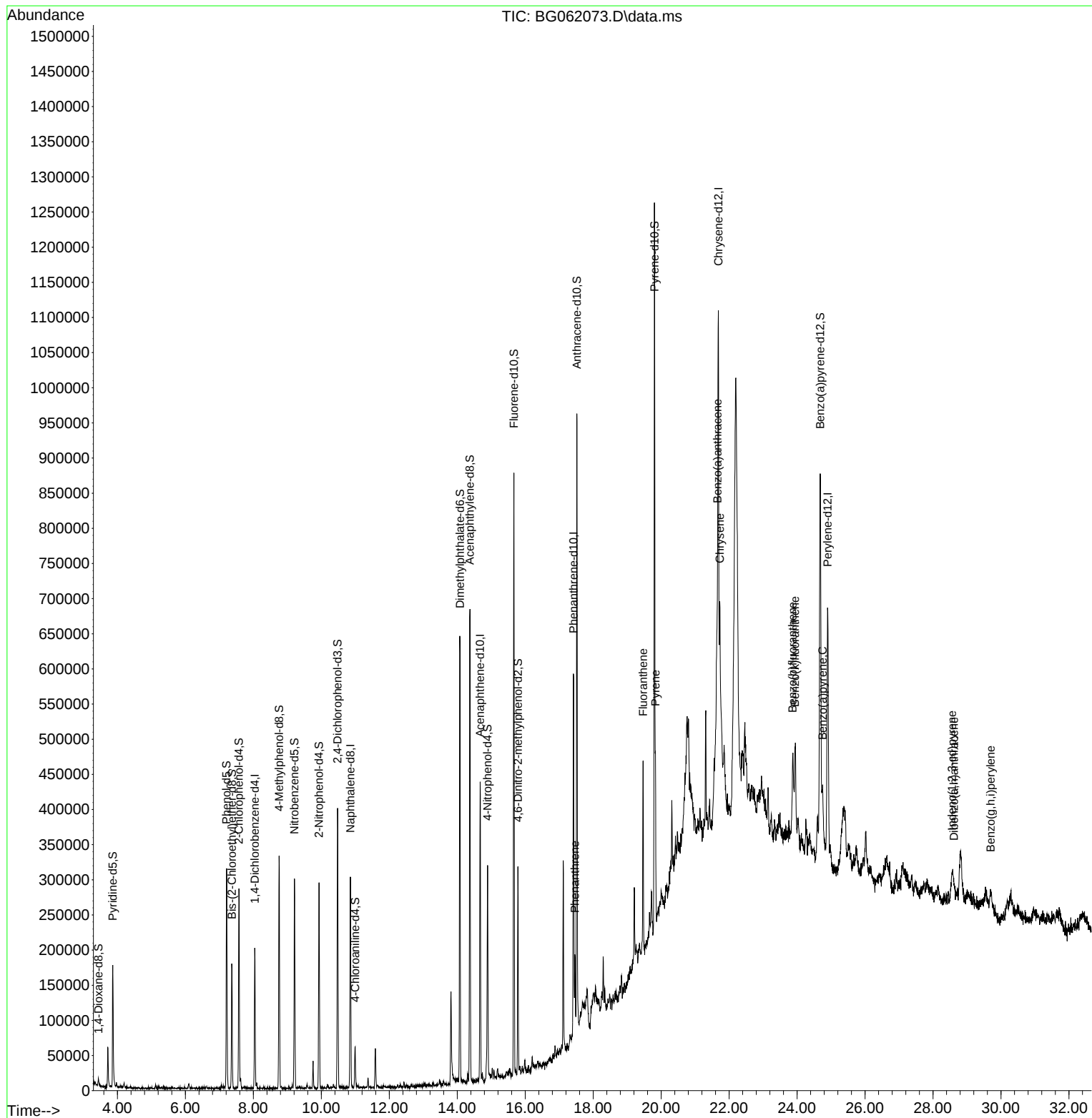
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG071524\  
 Data File : BG062073.D  
 Acq On : 15 Jul 2024 18:01  
 Operator : MA/JU  
 Sample : P3100-19  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

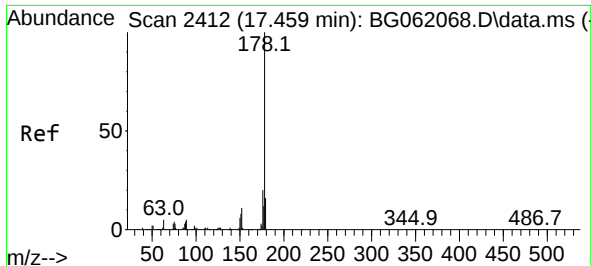
Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4D32

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/16/2024  
 Supervised By :mohammad ahmed 07/20/2024

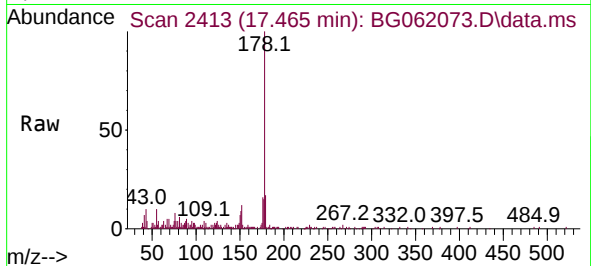
Quant Time: Jul 15 23:32:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG070224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 11 12:11:32 2024  
 Response via : Initial Calibration





#72  
Phenanthrene  
Concen: 3.684 ng/ul  
RT: 17.465 min Scan# 2412  
Delta R.T. 0.006 min  
Lab File: BG062073.D  
Acq: 15 Jul 2024 18:01

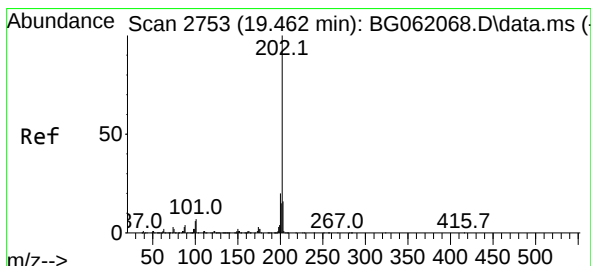
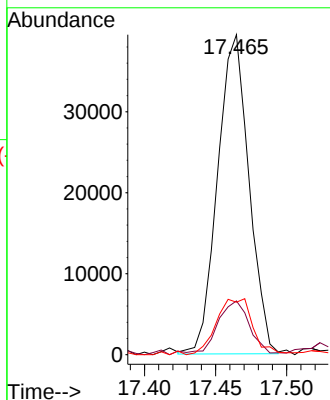
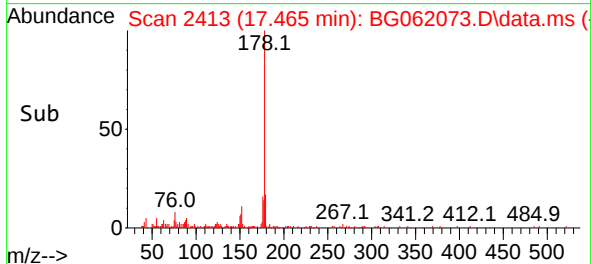
Instrument :  
BNA\_G  
ClientSampleId :  
A4D32



Tgt Ion:178 Resp: 60510  
Ion Ratio Lower Upper  
178 100  
179 16.8 11.9 17.9  
176 16.4 15.5 23.3

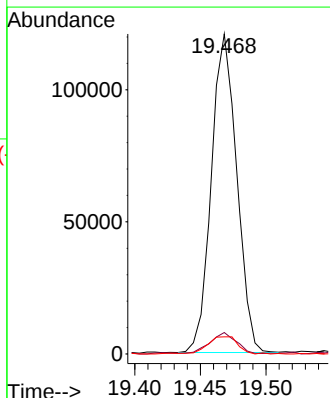
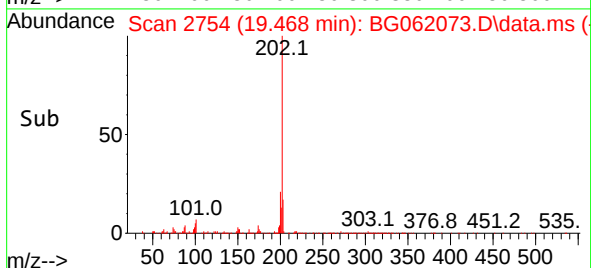
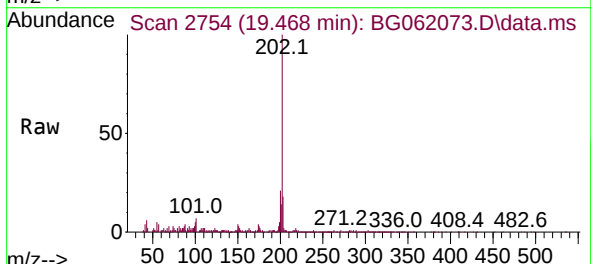
Manual Integrations  
APPROVED

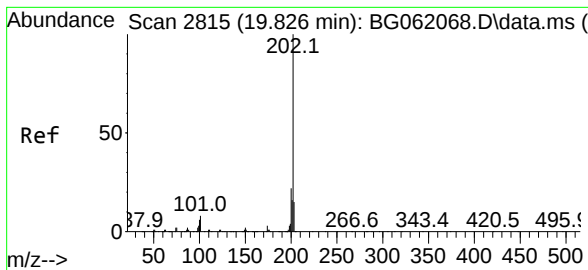
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/20/2024



#80  
Fluoranthene  
Concen: 8.130 ng/ul  
RT: 19.468 min Scan# 2754  
Delta R.T. 0.006 min  
Lab File: BG062073.D  
Acq: 15 Jul 2024 18:01

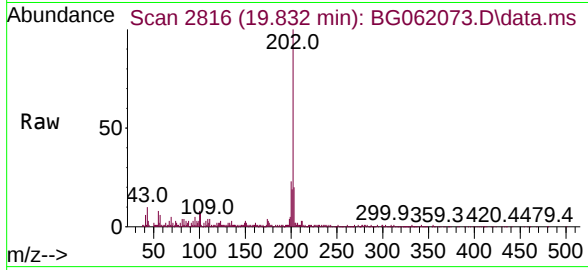
Tgt Ion:202 Resp: 162568  
Ion Ratio Lower Upper  
202 100  
101 6.7 7.4 11.2#  
100 5.3 6.6 10.0#





#82  
 Pyrene  
 Concen: 6.558 ng/ul  
 RT: 19.832 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: BG062073.D  
 Acq: 15 Jul 2024 18:01

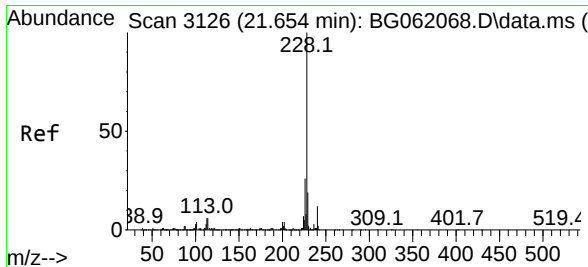
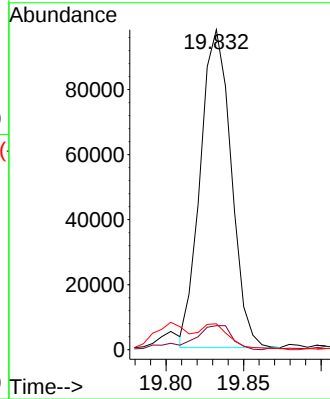
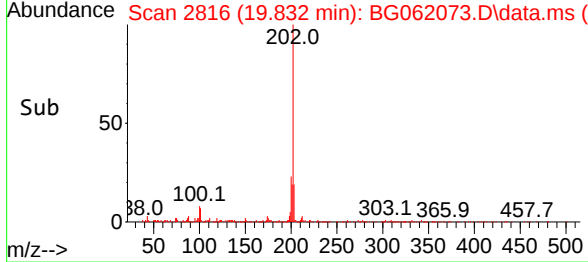
Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4D32



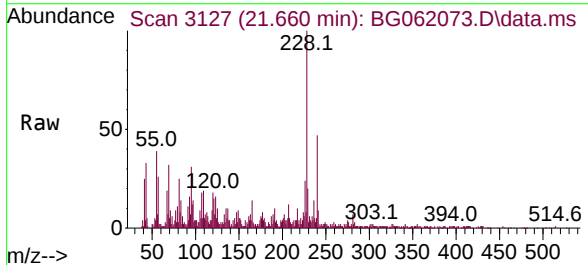
Tgt Ion:202 Resp: 135454  
 Ion Ratio Lower Upper  
 202 100  
 101 7.5 8.8 13.2  
 100 8.1 7.6 11.4

Manual Integrations  
 APPROVED

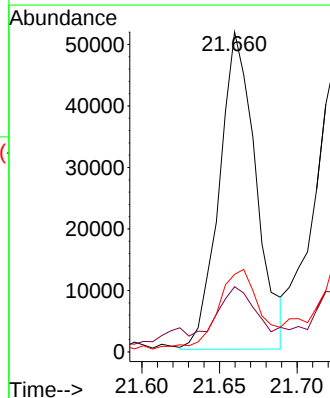
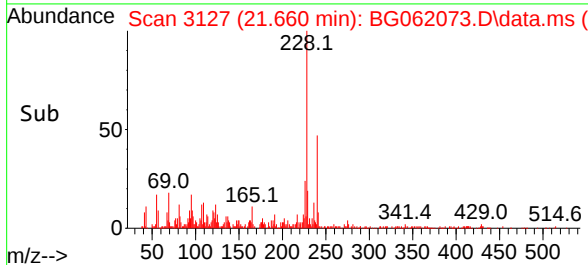
Reviewed By :Yogesh Patel 07/16/2024  
 Supervised By :mohammad ahmed 07/20/2024

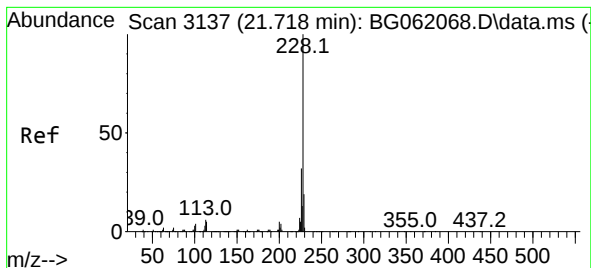


#85  
 Benzo(a)anthracene  
 Concen: 4.089 ng/ul  
 RT: 21.660 min Scan# 3127  
 Delta R.T. 0.006 min  
 Lab File: BG062073.D  
 Acq: 15 Jul 2024 18:01



Tgt Ion:228 Resp: 85059  
 Ion Ratio Lower Upper  
 228 100  
 229 20.4 15.7 23.5  
 226 24.3 21.7 32.5





#87

Chrysene

Concen: 4.700 ng/ul

RT: 21.730 min Scan# 3137

Delta R.T. 0.006 min

Lab File: BG062073.D

Acq: 15 Jul 2024 18:01

Instrument :

BNA\_G

ClientSampleId :

A4D32

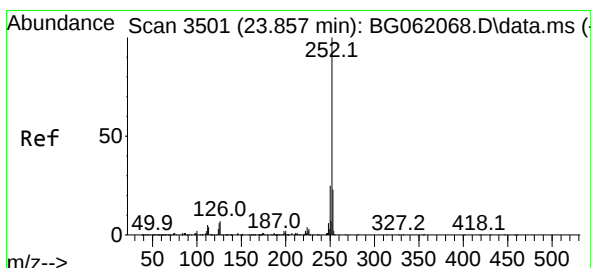
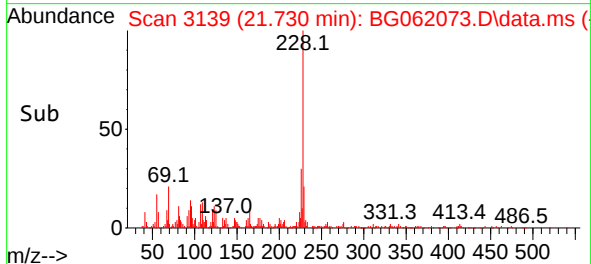
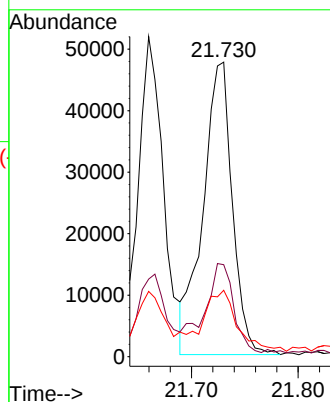
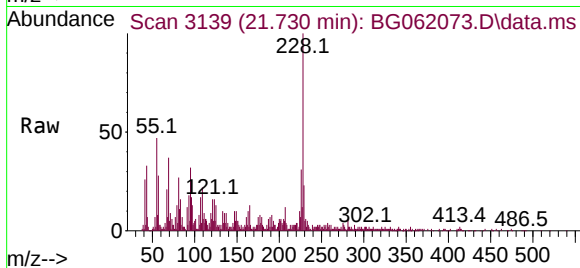
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 9150      |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 31.2  | 23.3 34.9 |
| 229         | 22.6  | 15.5 23.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/16/2024

Supervised By :mohammad ahmed 07/20/2024



#90

Benzo(b)fluoranthene

Concen: 5.854 ng/ul

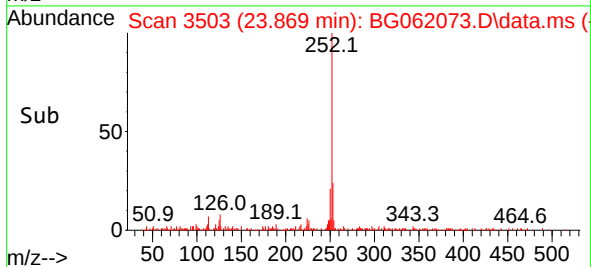
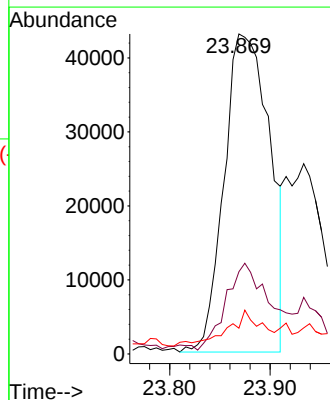
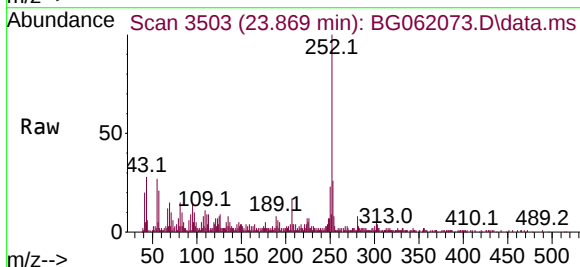
RT: 23.869 min Scan# 3503

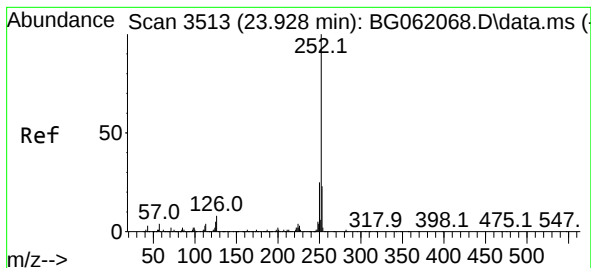
Delta R.T. 0.011 min

Lab File: BG062073.D

Acq: 15 Jul 2024 18:01

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 135979    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.7  | 17.2 25.8 |
| 125         | 8.1   | 6.1 9.1   |





#91

Benzo(k)fluoranthene

Concen: 2.758 ng/ul m

RT: 23.933 min Scan# 3

Delta R.T. 0.011 min

Lab File: BG062073.D

Acq: 15 Jul 2024 18:01

Instrument :

BNA\_G

ClientSampleId :

A4D32

Tgt Ion:252 Resp: 6388

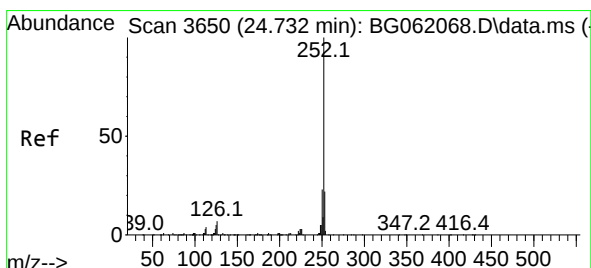
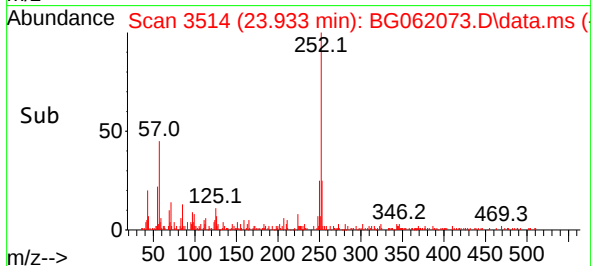
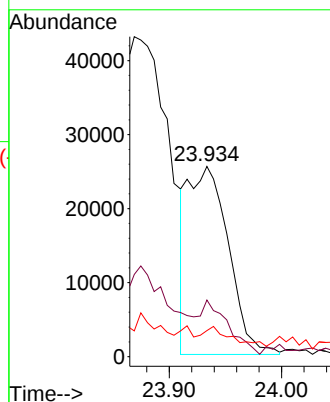
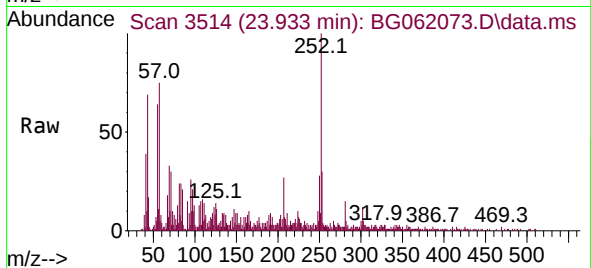
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 29.8  | 19.3  | 28.9  |
| 125 | 13.7  | 6.3   | 9.5   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/16/2024

Supervised By :mohammad ahmed 07/20/2024



#93

Benzo(a)pyrene

Concen: 4.503 ng/ul m

RT: 24.750 min Scan# 3653

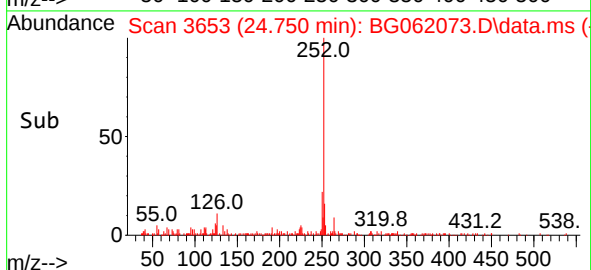
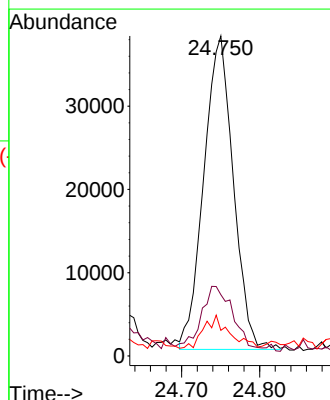
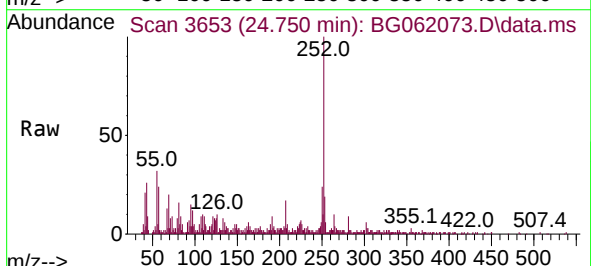
Delta R.T. 0.023 min

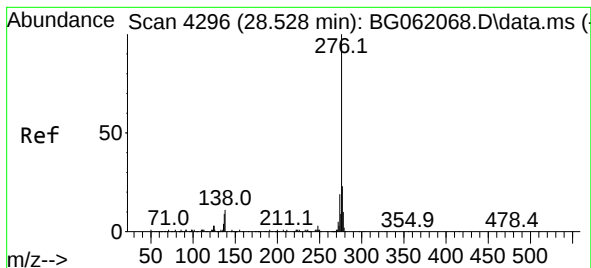
Lab File: BG062073.D

Acq: 15 Jul 2024 18:01

Tgt Ion:252 Resp: 99053

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 19.2  | 16.5  | 24.7  |
| 125 | 8.0   | 7.4   | 11.2  |





#94

Indeno(1,2,3-cd)pyrene

Concen: 2.883 ng/ul m

RT: 28.563 min Scan# 4311

Delta R.T. 0.029 min

Lab File: BG062073.D

Acq: 15 Jul 2024 18:01

Instrument :

BNA\_G

ClientSampleId :

A4D32

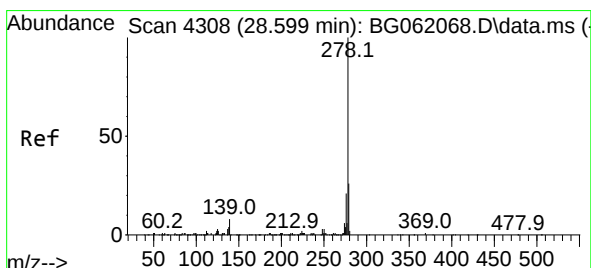
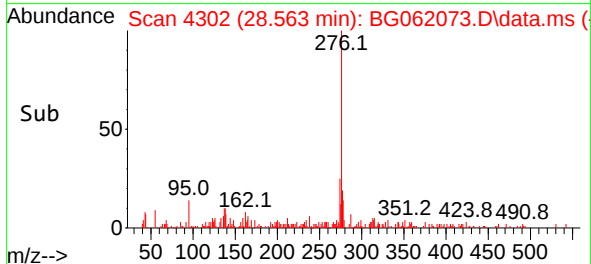
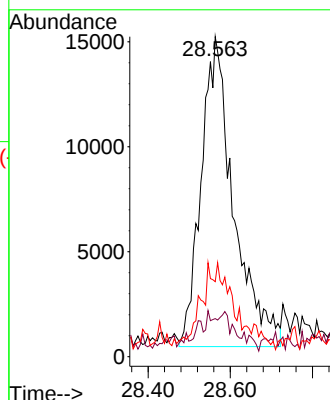
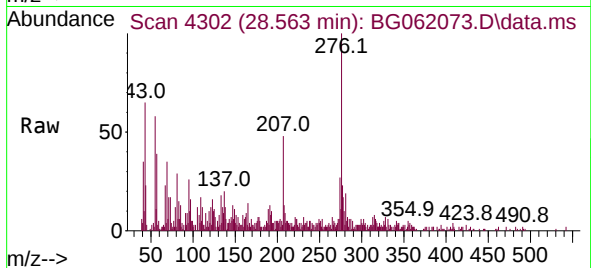
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 8104 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 11.9  | 11.9  | 17.9 |
| 277       | 23.4  | 19.3  | 28.9 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/16/2024

Supervised By :mohammad ahmed 07/20/2024



#95

Dibenzo(a,h)anthracene

Concen: 1.347 ng/ul m

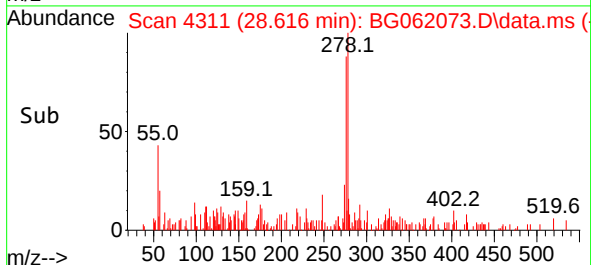
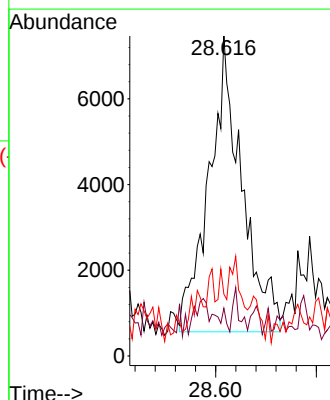
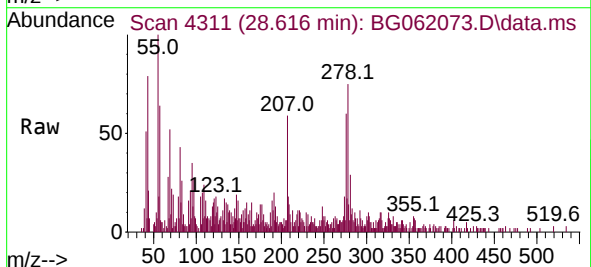
RT: 28.616 min Scan# 4311

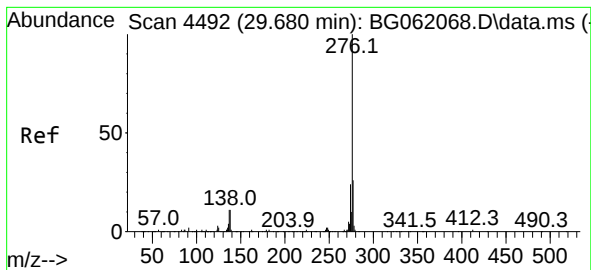
Delta R.T. 0.023 min

Lab File: BG062073.D

Acq: 15 Jul 2024 18:01

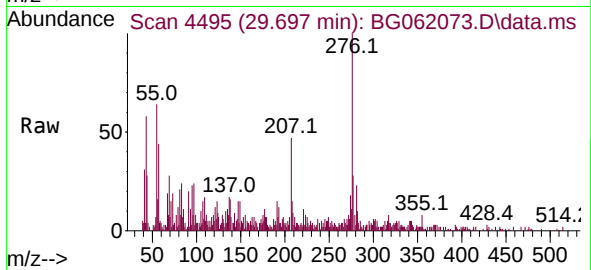
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 31277 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 14.9  | 7.6   | 11.4  |
| 279       | 19.3  | 18.8  | 28.2  |





#96  
Benzo(g,h,i)perylene  
Concen: 3.245 ng/ul m  
RT: 29.697 min Scan# 44  
Delta R.T. 0.029 min  
Lab File: BG062073.D  
Acq: 15 Jul 2024 18:01

Instrument :  
BNA\_G  
ClientSampleId :  
A4D32



Tgt Ion:276 Resp: 72572  
Ion Ratio Lower Upper  
276 100  
138 15.9 11.1 16.7  
277 27.5 18.8 28.2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/20/2024

