

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062224\  
 Data File : BG061645.D  
 Acq On : 22 Jun 2024 12:20  
 Operator : MA/JU  
 Sample : P2775-13  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4C95

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/24/2024  
 Supervised By :mohammad ahmed 06/24/2024

Quant Time: Jun 23 02:09:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG062024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 21 05:03:55 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.078  | 152  | 52448    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.886 | 136  | 252488   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.705 | 164  | 183780   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.443 | 188  | 400452   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.709 | 240  | 339384   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.935 | 264  | 409957   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.472  | 96   | 7663     | 5.278  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.895  | 84   | 9740     | 2.219  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.214  | 99   | 172885   | 30.364 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.402  | 67   | 104037   | 29.312 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.602  | 132  | 125327   | 32.076 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.765  | 113  | 130083   | 29.553 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.235  | 128  | 60978    | 35.569 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.964  | 143  | 68206    | 39.281 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.493 | 165  | 138589   | 33.708 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.022 | 131  | 116327   | 18.688 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.106 | 166  | 453242   | 32.048 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.394 | 160  | 524804   | 33.860 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.870 | 143  | 71334    | 29.369 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.693 | 176  | 411607   | 33.245 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.792 | 200  | 52864    | 30.872 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.543 | 188  | 620927   | 33.969 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.823 | 212  | 592521   | 31.256 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.717 | 264  | 447585   | 22.859 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 16) Acetophenone              | 8.900  | 105  | 13408    | 1.850  | ng/u1  | 99       |
| 52) Acenaphthene              | 14.764 | 153  | 28060    | 2.342  | ng/u1  | 90       |
| 61) Fluorene                  | 15.745 | 166  | 27321    | 1.969  | ng/u1# | 88       |
| 72) Phenanthrene              | 17.485 | 178  | 524781   | 24.909 | ng/u1  | 98       |
| 74) Anthracene                | 17.579 | 178  | 88701m   | 4.117  | ng/u1  |          |
| 77) Carbazole                 | 17.843 | 167  | 49006    | 2.679  | ng/u1# | 94       |
| 80) Fluoranthene              | 19.494 | 202  | 975103   | 44.331 | ng/u1# | 97       |
| 82) Pyrene                    | 19.852 | 202  | 677158   | 28.953 | ng/u1  | 99       |
| 85) Benzo(a)anthracene        | 21.686 | 228  | 423092   | 17.760 | ng/u1  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.609 | 149  | 62602    | 5.001  | ng/u1# | 97       |
| 87) Chrysene                  | 21.756 | 228  | 449657   | 19.948 | ng/u1  | 100      |
| 90) Benzo(b)fluoranthene      | 23.918 | 252  | 589275   | 23.912 | ng/u1  | 97       |
| 91) Benzo(k)fluoranthene      | 23.971 | 252  | 236927m  | 9.348  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.776 | 252  | 224480   | 9.462  | ng/u1  | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.613 | 276  | 218075m  | 7.376  | ng/u1  |          |
| 95) Dibenzo(a,h)anthracene    | 28.683 | 278  | 79185m   | 3.221  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 29.758 | 276  | 27488m   | 1.153  | ng/u1  |          |

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

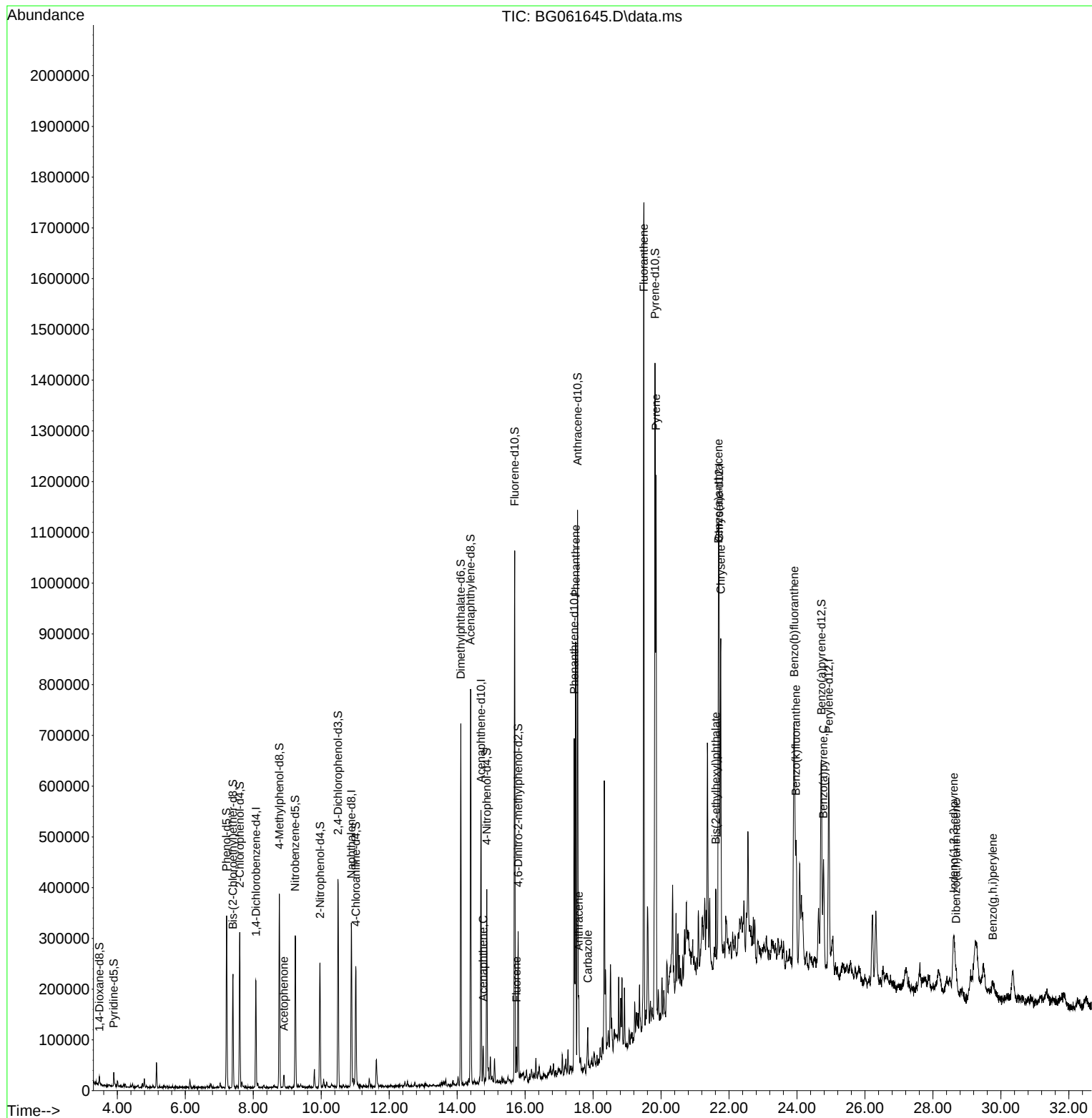
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062224\  
Data File : BG061645.D  
Acq On : 22 Jun 2024 12:20  
Operator : MA/JU  
Sample : P2775-13  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

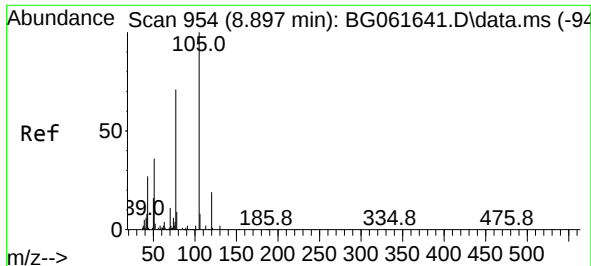
Instrument :  
BNA\_G  
ClientSampleId :  
A4C95

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/24/2024  
Supervised By :mohammad ahmed 06/24/2024

Quant Time: Jun 23 02:09:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG062024.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jun 21 05:03:55 2024  
Response via : Initial Calibration





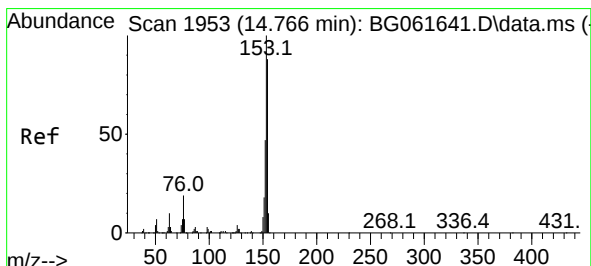
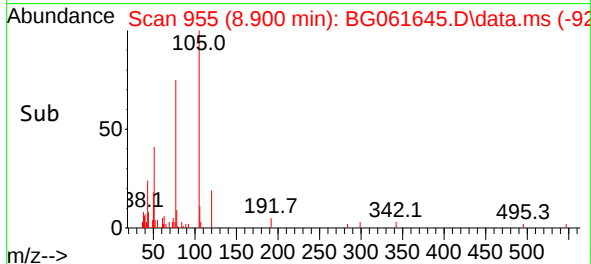
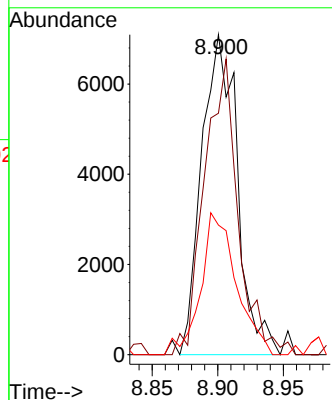
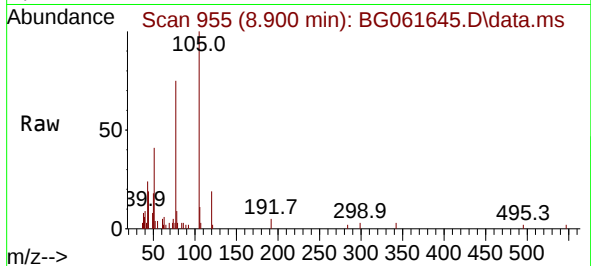
#16  
Acetophenone  
Concen: 1.850 ng/ul  
RT: 8.900 min Scan# 91  
Delta R.T. 0.002 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

Instrument :  
BNA\_G  
ClientSampleId :  
A4C95

Tgt Ion:105 Resp: 13408  
Ion Ratio Lower Upper  
105 100  
77 75.4 60.4 90.6  
51 40.5 31.1 46.7

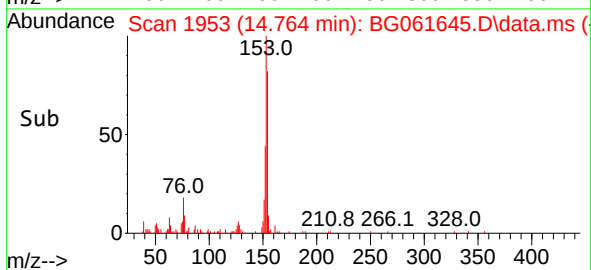
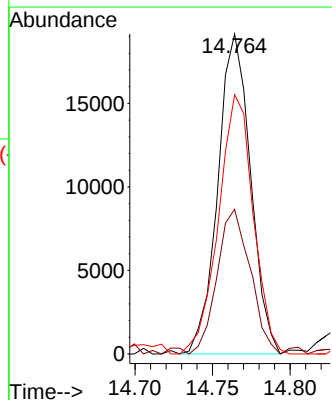
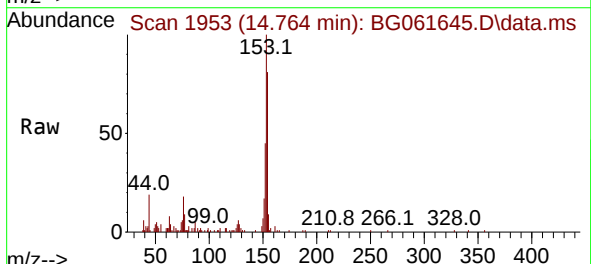
Manual Integrations  
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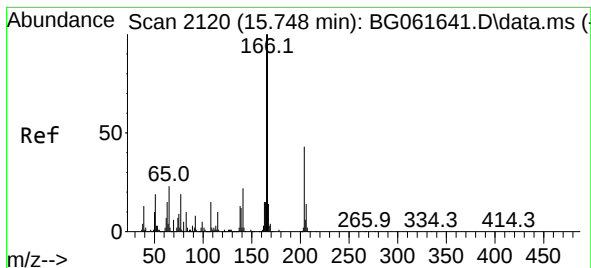
Reviewed By :Yogesh Patel 06/24/2024  
Supervised By :mohammad ahmed 06/24/2024



#52  
Acenaphthene  
Concen: 2.342 ng/ul  
RT: 14.764 min Scan# 1953  
Delta R.T. -0.004 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

Tgt Ion:153 Resp: 28060  
Ion Ratio Lower Upper  
153 100  
152 45.2 40.0 60.0  
154 81.0 74.1 111.1





#61

Fluorene

Concen: 1.969 ng/ul

RT: 15.745 min Scan# 2120

Delta R.T. -0.004 min

Lab File: BG061645.D

Acq: 22 Jun 2024 12:20

Instrument :

BNA\_G

ClientSampleId :

A4C95

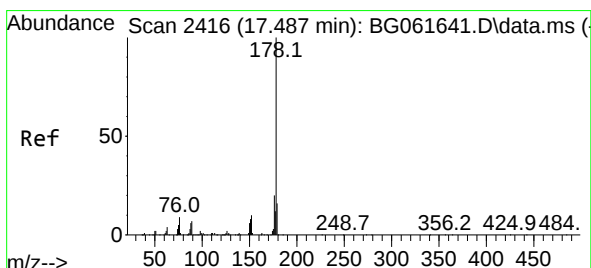
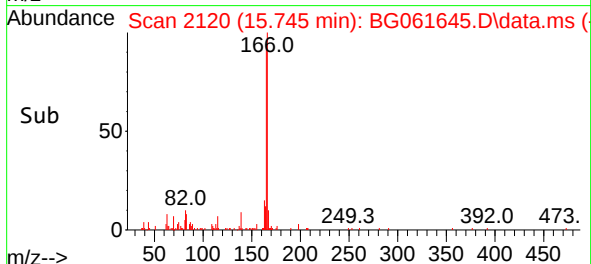
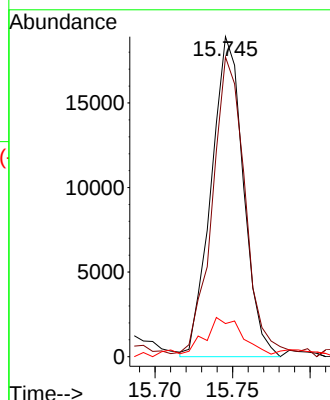
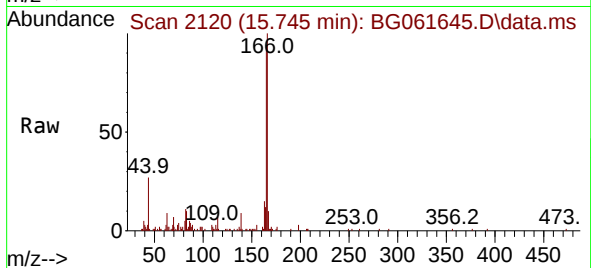
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 2732  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 93.7  | 84.9  | 127.3 |
| 167       | 10.3  | 10.9  | 16.3  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/24/2024

Supervised By :mohammad ahmed 06/24/2024



#72

Phenanthrene

Concen: 24.909 ng/ul

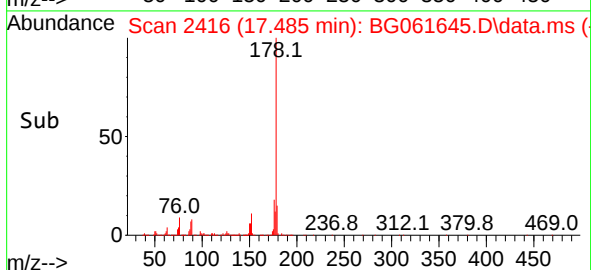
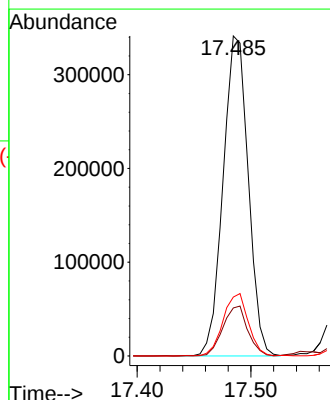
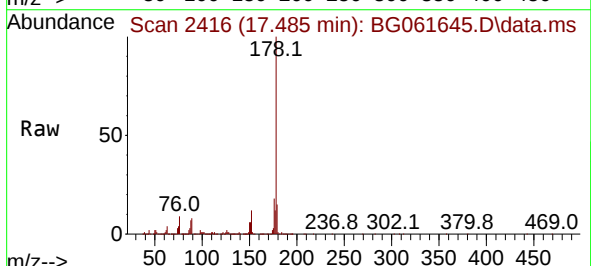
RT: 17.485 min Scan# 2416

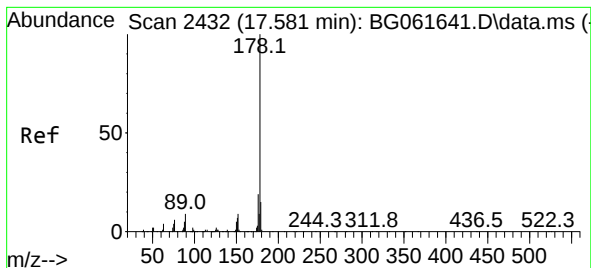
Delta R.T. -0.004 min

Lab File: BG061645.D

Acq: 22 Jun 2024 12:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 524781 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.0  | 12.0  | 18.0   |
| 176       | 18.4  | 16.2  | 24.2   |





#74

Anthracene

Concen: 4.117 ng/ul m

RT: 17.579 min Scan# 2432

Delta R.T. 0.002 min

Lab File: BG061645.D

Acq: 22 Jun 2024 12:20

Instrument :

BNA\_G

ClientSampleId :

A4C95

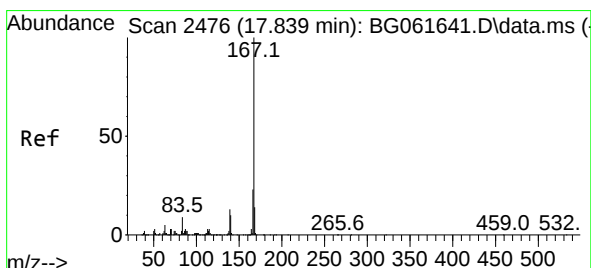
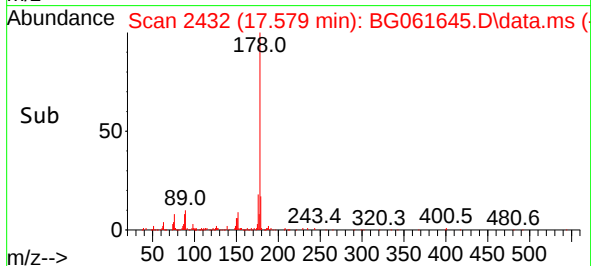
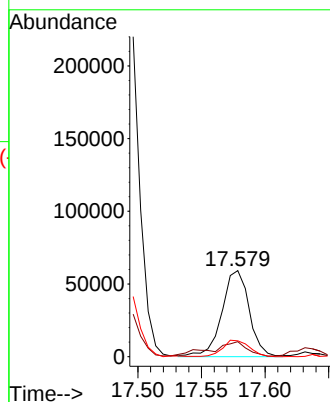
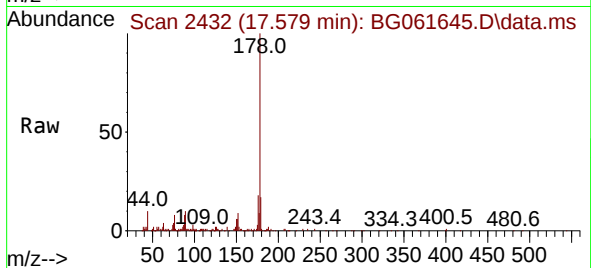
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 8870      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 17.5  | 11.4 17.2 |
| 176         | 18.4  | 14.7 22.1 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/24/2024

Supervised By :mohammad ahmed 06/24/2024



#77

Carbazole

Concen: 2.679 ng/ul

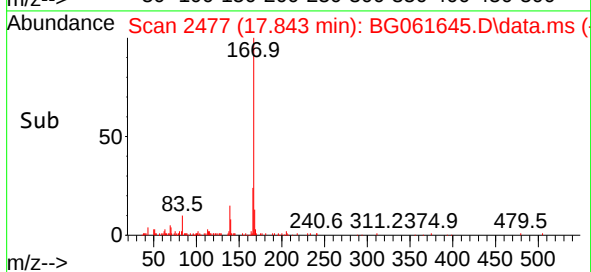
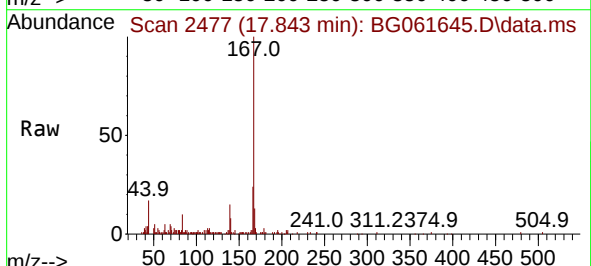
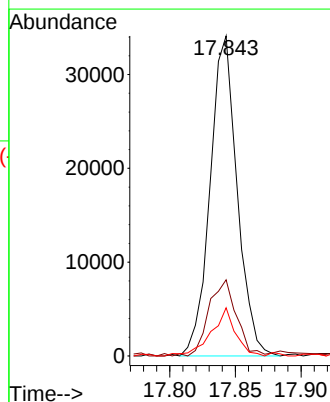
RT: 17.843 min Scan# 2477

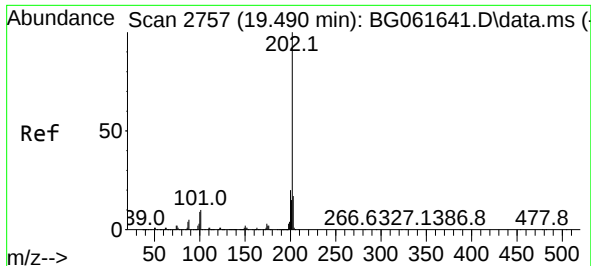
Delta R.T. 0.002 min

Lab File: BG061645.D

Acq: 22 Jun 2024 12:20

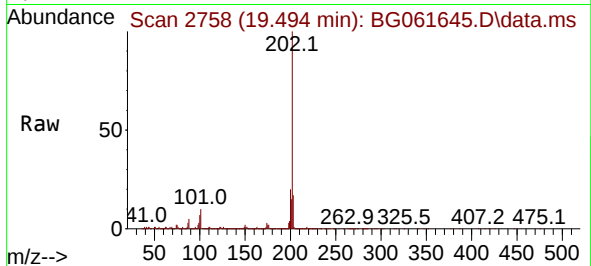
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 49006     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 23.8  | 17.5 26.3 |
| 139         | 15.0  | 9.4 14.2  |





#80  
Fluoranthene  
Concen: 44.331 ng/u1  
RT: 19.494 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

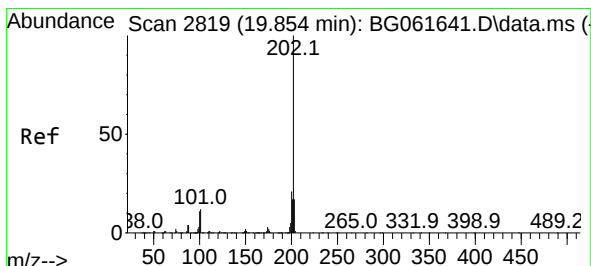
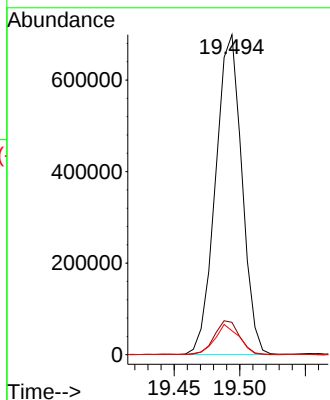
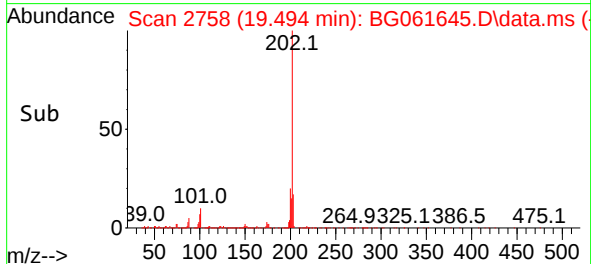
Instrument :  
BNA\_G  
ClientSampleId :  
A4C95



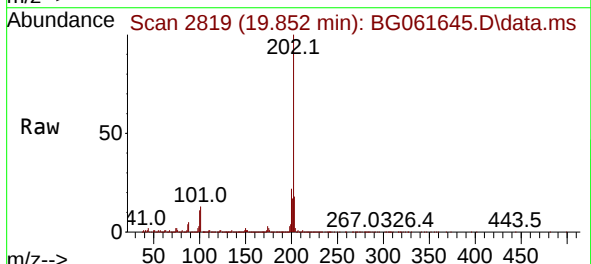
Tgt Ion:202 Resp: 97510  
Ion Ratio Lower Upper  
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101 10.1 7.8 11.6  
100 7.5 7.7 11.5

Manual Integrations  
APPROVED

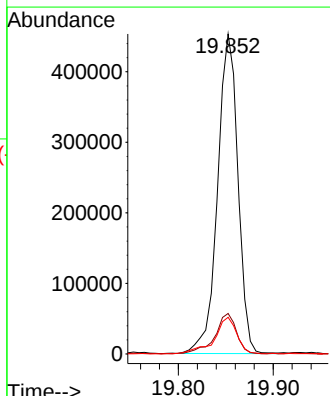
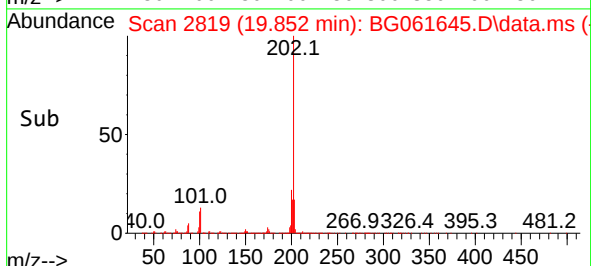
Reviewed By :Yogesh Patel 06/24/2024  
Supervised By :mohammad ahmed 06/24/2024

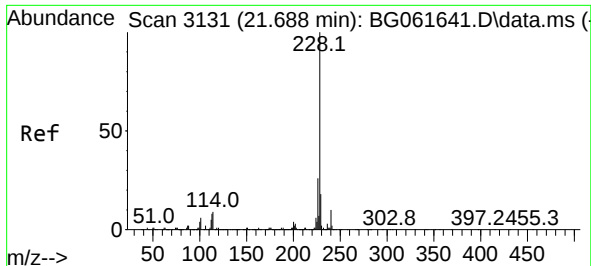


#82  
Pyrene  
Concen: 28.953 ng/u1  
RT: 19.852 min Scan# 2819  
Delta R.T. 0.002 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20



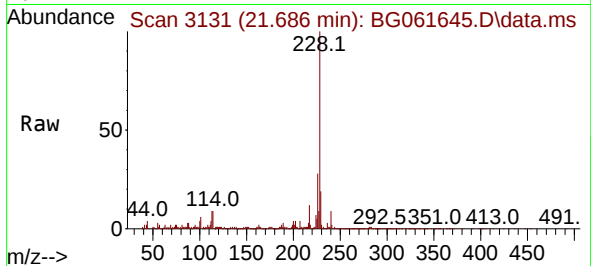
Tgt Ion:202 Resp: 677158  
Ion Ratio Lower Upper  
202 100  
101 12.7 10.1 15.1  
100 11.5 9.9 14.9





#85  
Benzo(a)anthracene  
Concen: 17.760 ng/ul  
RT: 21.686 min Scan# 3118  
Delta R.T. -0.004 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

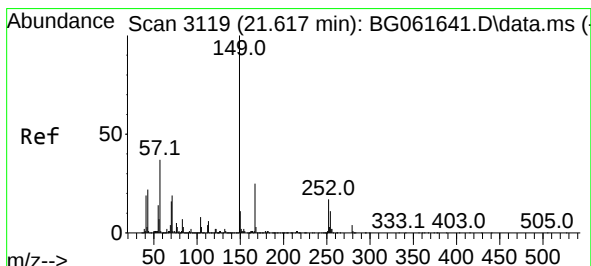
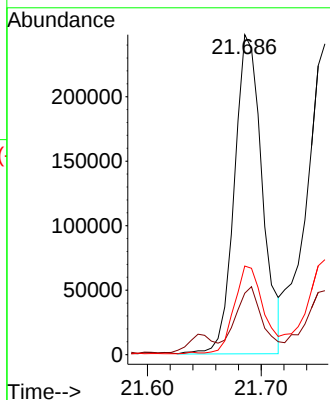
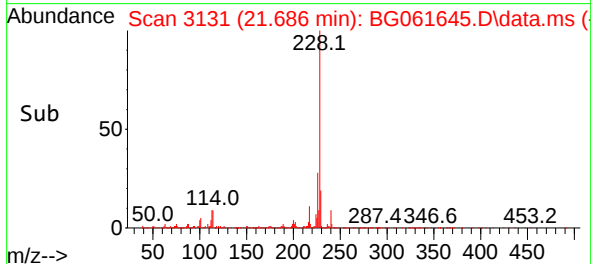
Instrument :  
BNA\_G  
ClientSampleId :  
A4C95



Tgt Ion:228 Resp: 423092  
Ion Ratio Lower Upper  
228 100  
229 19.2 15.8 23.8  
226 27.7 21.4 32.2

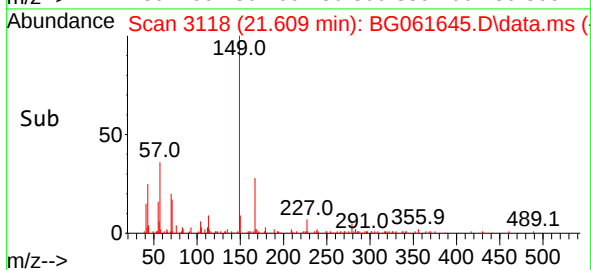
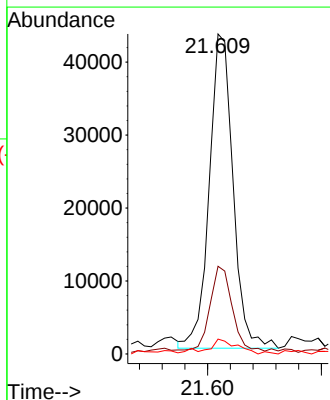
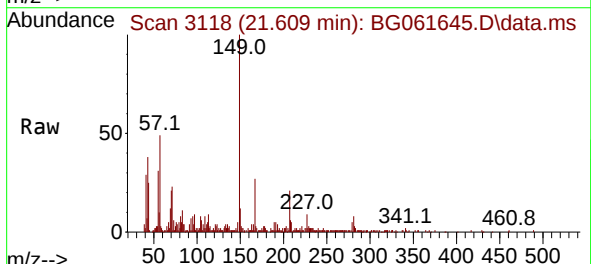
Manual Integrations  
APPROVED

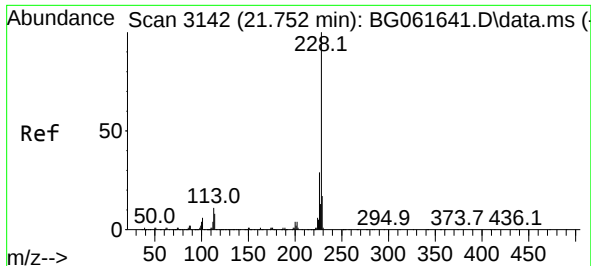
Reviewed By :Yogesh Patel 06/24/2024  
Supervised By :mohammad ahmed 06/24/2024



#86  
Bis(2-ethylhexyl)phthalate  
Concen: 5.001 ng/ul  
RT: 21.609 min Scan# 3118  
Delta R.T. -0.016 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

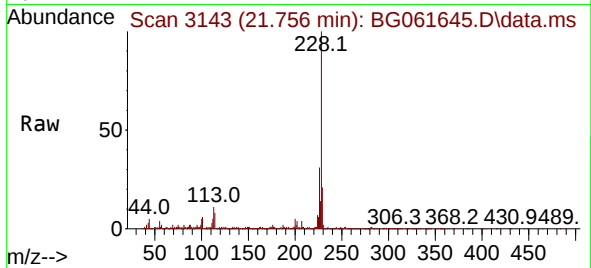
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Ion Ratio Lower Upper  
149 100  
167 27.4 20.5 30.7  
279 4.7 2.9 4.3#





#87  
Chrysene  
Concen: 19.948 ng/ul  
RT: 21.756 min Scan# 3142  
Delta R.T. -0.004 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

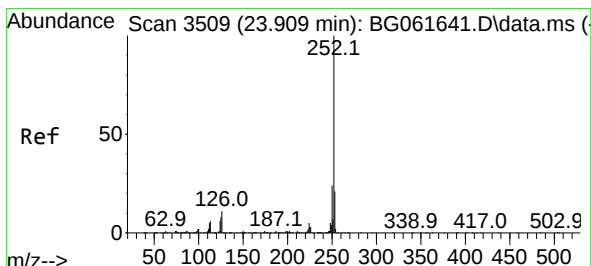
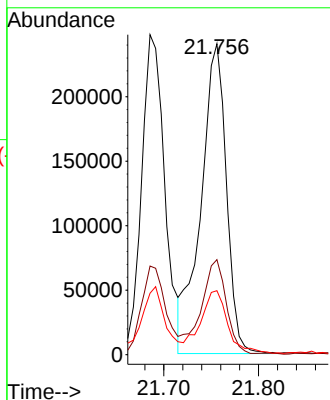
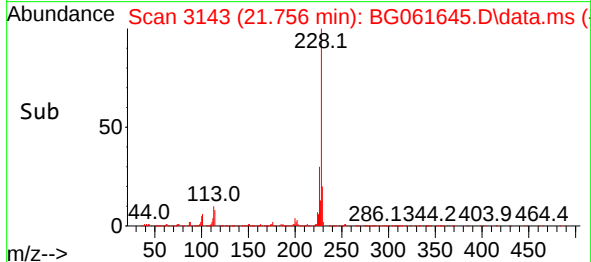
Instrument :  
BNA\_G  
ClientSampleId :  
A4C95



Tgt Ion:228 Resp: 44965  
Ion Ratio Lower Upper  
228 100  
226 30.6 24.2 36.2  
229 20.6 16.5 24.7

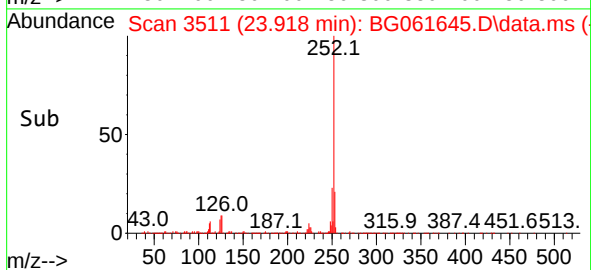
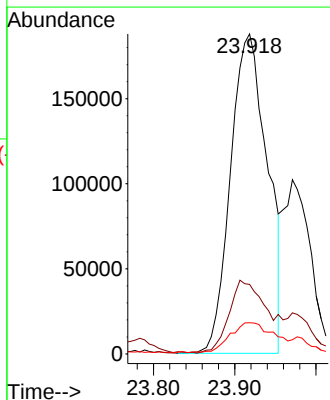
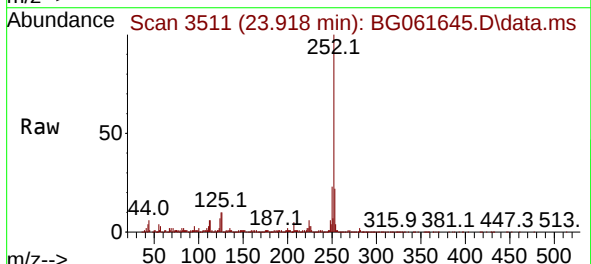
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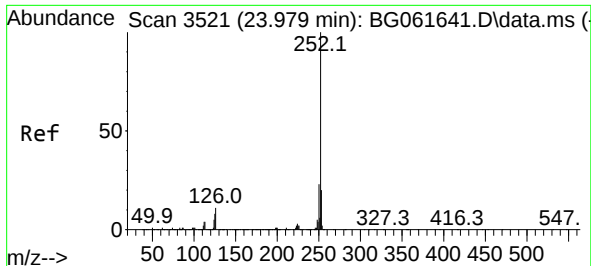
Reviewed By :Yogesh Patel 06/24/2024  
Supervised By :mohammad ahmed 06/24/2024



#90  
Benzo(b)fluoranthene  
Concen: 23.912 ng/ul  
RT: 23.918 min Scan# 3511  
Delta R.T. 0.002 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

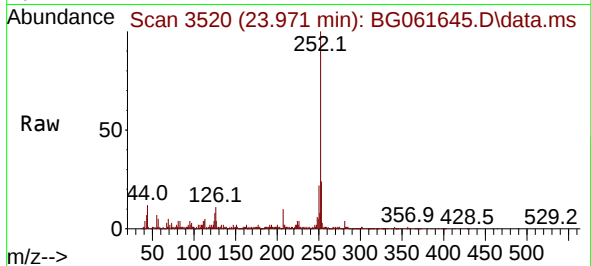
Tgt Ion:252 Resp: 589275  
Ion Ratio Lower Upper  
252 100  
253 21.7 18.6 27.8  
125 9.8 7.0 10.6





#91  
Benzo(k)fluoranthene  
Concen: 9.348 ng/ul m  
RT: 23.971 min Scan# 3  
Delta R.T. -0.010 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20

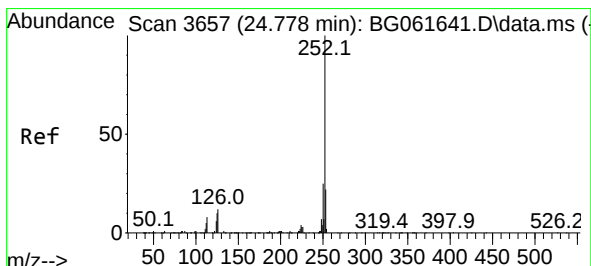
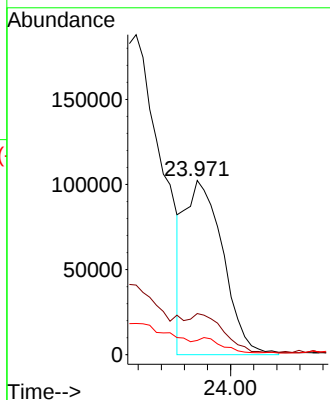
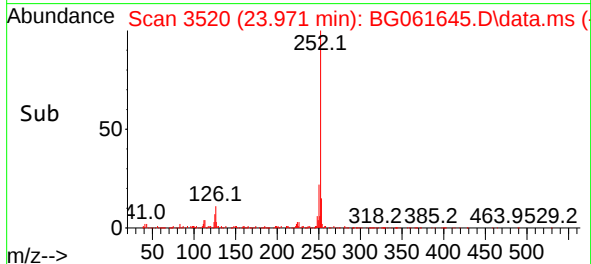
Instrument :  
BNA\_G  
ClientSampleId :  
A4C95



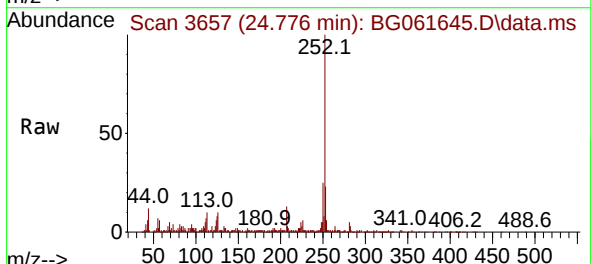
Tgt Ion:252 Resp: 23692  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.8 26.6  
125 8.2 6.2 9.2

Manual Integrations  
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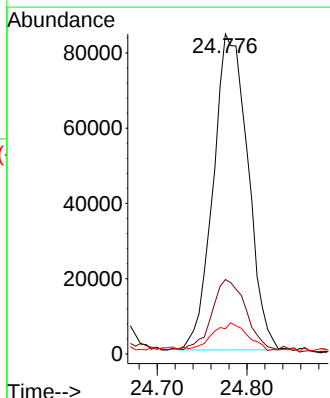
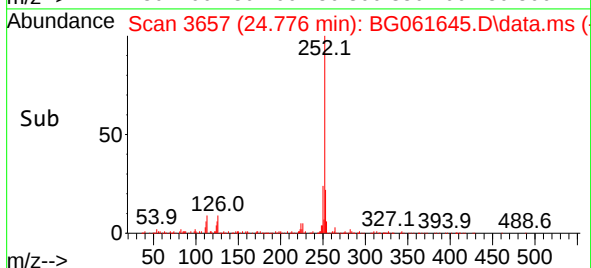
Reviewed By :Yogesh Patel 06/24/2024  
Supervised By :mohammad ahmed 06/24/2024

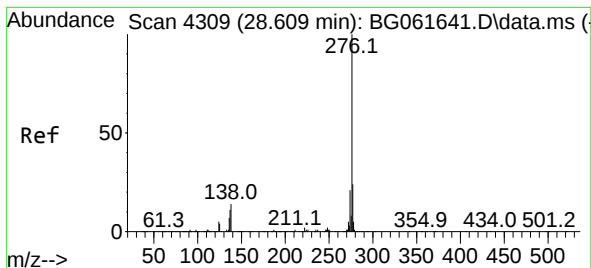


#93  
Benzo(a)pyrene  
Concen: 9.462 ng/ul  
RT: 24.776 min Scan# 3657  
Delta R.T. -0.016 min  
Lab File: BG061645.D  
Acq: 22 Jun 2024 12:20



Tgt Ion:252 Resp: 224480  
Ion Ratio Lower Upper  
252 100  
253 23.3 16.8 25.2  
125 7.9 6.5 9.7





#94

Indeno(1,2,3-cd)pyrene

Concen: 7.376 ng/ul m

RT: 28.613 min Scan# 4310

Delta R.T. -0.004 min

Lab File: BG061645.D

Acq: 22 Jun 2024 12:20

Instrument :

BNA\_G

ClientSampleId :

A4C95

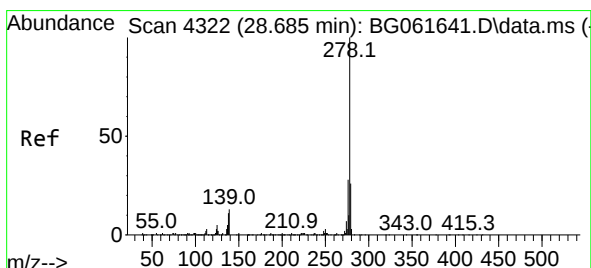
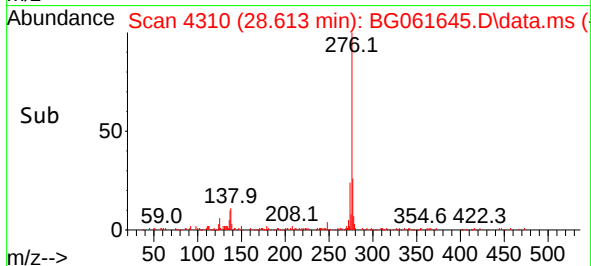
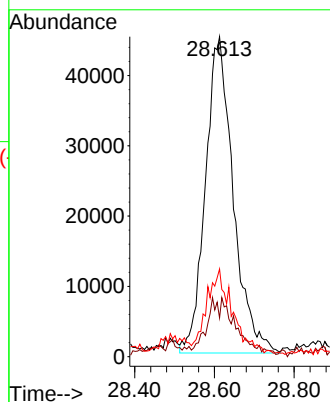
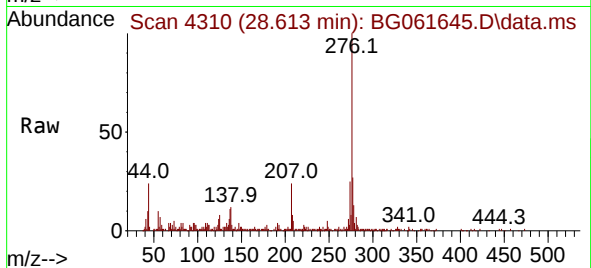
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 21807 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 12.1  | 12.2  | 18.4  |
| 277       | 27.4  | 19.7  | 29.5  |

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Reviewed By :Yogesh Patel 06/24/2024

Supervised By :mohammad ahmed 06/24/2024



#95

Dibenzo(a,h)anthracene

Concen: 3.221 ng/ul m

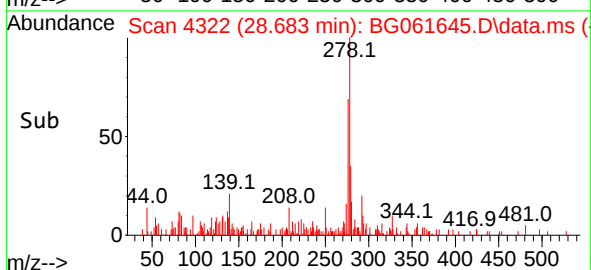
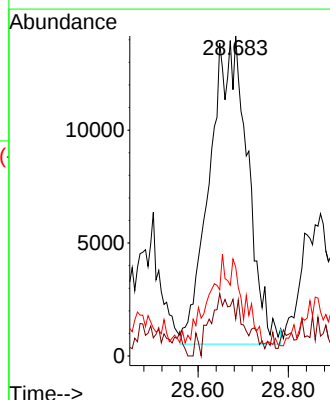
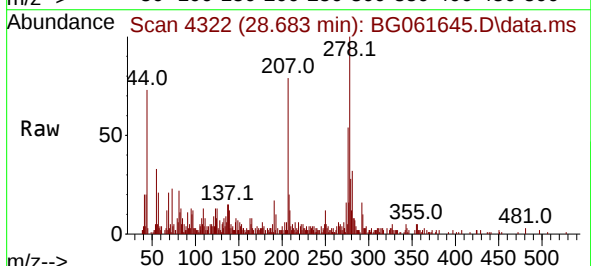
RT: 28.683 min Scan# 4322

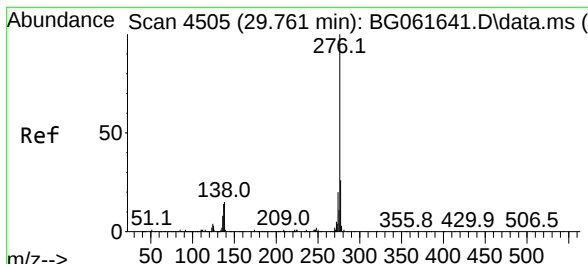
Delta R.T. -0.016 min

Lab File: BG061645.D

Acq: 22 Jun 2024 12:20

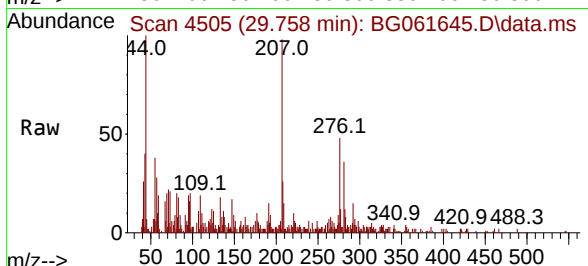
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 79185 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 11.5  | 9.1   | 13.7  |
| 279       | 27.8  | 18.6  | 28.0  |





#96  
 Benzo(g,h,i)perylene  
 Concen: 1.153 ng/ul m  
 RT: 29.758 min Scan# 4  
 Delta R.T. 0.002 min  
 Lab File: BG061645.D  
 Acq: 22 Jun 2024 12:20

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4C95



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 2748 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 16.7  | 12.2  | 18.4 |
| 277       | 25.1  | 18.6  | 27.8 |

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/24/2024  
 Supervised By :mohammad ahmed 06/24/2024

