

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG051624\  
 Data File : BG061230.D  
 Acq On : 16 May 2024 21:26  
 Operator : MA/JU  
 Sample : P2488-01 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-G-COMP

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 05/17/2024  
 Supervised By :mohammad ahmed 05/18/2024

Quant Time: May 17 01:21:17 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 05:11:25 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.926  | 152  | 27290    | 20.000 | ng    | -0.03    |
| 21) Naphthalene-d8            | 10.723 | 136  | 106831   | 20.000 | ng    | #-0.03   |
| 39) Acenaphthene-d10          | 14.560 | 164  | 79974    | 20.000 | ng    | -0.03    |
| 64) Phenanthrene-d10          | 17.310 | 188  | 169143   | 20.000 | ng    | -0.02    |
| 76) Chrysene-d12              | 21.563 | 240  | 171775   | 20.000 | ng    | -0.03    |
| 86) Perylene-d12              | 24.695 | 264  | 209474   | 20.000 | ng    | -0.03    |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.523  | 112  | 25924    | 19.319 | ng    | -0.02    |
| 7) Phenol-d6                  | 7.110  | 99   | 45903    | 23.124 | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 9.084  | 82   | 28288    | 13.126 | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol      | 16.052 | 330  | 56768    | 35.512 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 13.179 | 172  | 104437   | 19.310 | ng    | -0.03    |
| 79) Terphenyl-d14             | 19.924 | 244  | 268437   | 25.990 | ng    | -0.03    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene              | 17.351 | 178  | 69270    | 8.957  | ng    | 99       |
| 75) Fluoranthene              | 19.360 | 202  | 169809   | 16.027 | ng    | 97       |
| 78) Pyrene                    | 19.724 | 202  | 143817   | 13.169 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.546 | 228  | 79923m   | 7.110  | ng    |          |
| 83) Chrysene                  | 21.610 | 228  | 85466    | 8.115  | ng    | 95       |
| 84) Bis(2-ethylhexyl)phtha... | 21.458 | 149  | 12461    | 2.760  | ng    | # 90     |
| 87) Indeno(1,2,3-cd)pyrene    | 28.226 | 276  | 43706m   | 3.148  | ng    |          |
| 88) Benzo(b)fluoranthene      | 23.714 | 252  | 116997   | 9.995  | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 23.761 | 252  | 41188m   | 3.658  | ng    |          |
| 90) Benzo(a)pyrene            | 24.548 | 252  | 72857    | 7.144  | ng    | # 99     |
| 92) Benzo(g,h,i)perylene      | 29.348 | 276  | 40367m   | 3.533  | ng    |          |
| -----                         |        |      |          |        |       |          |

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

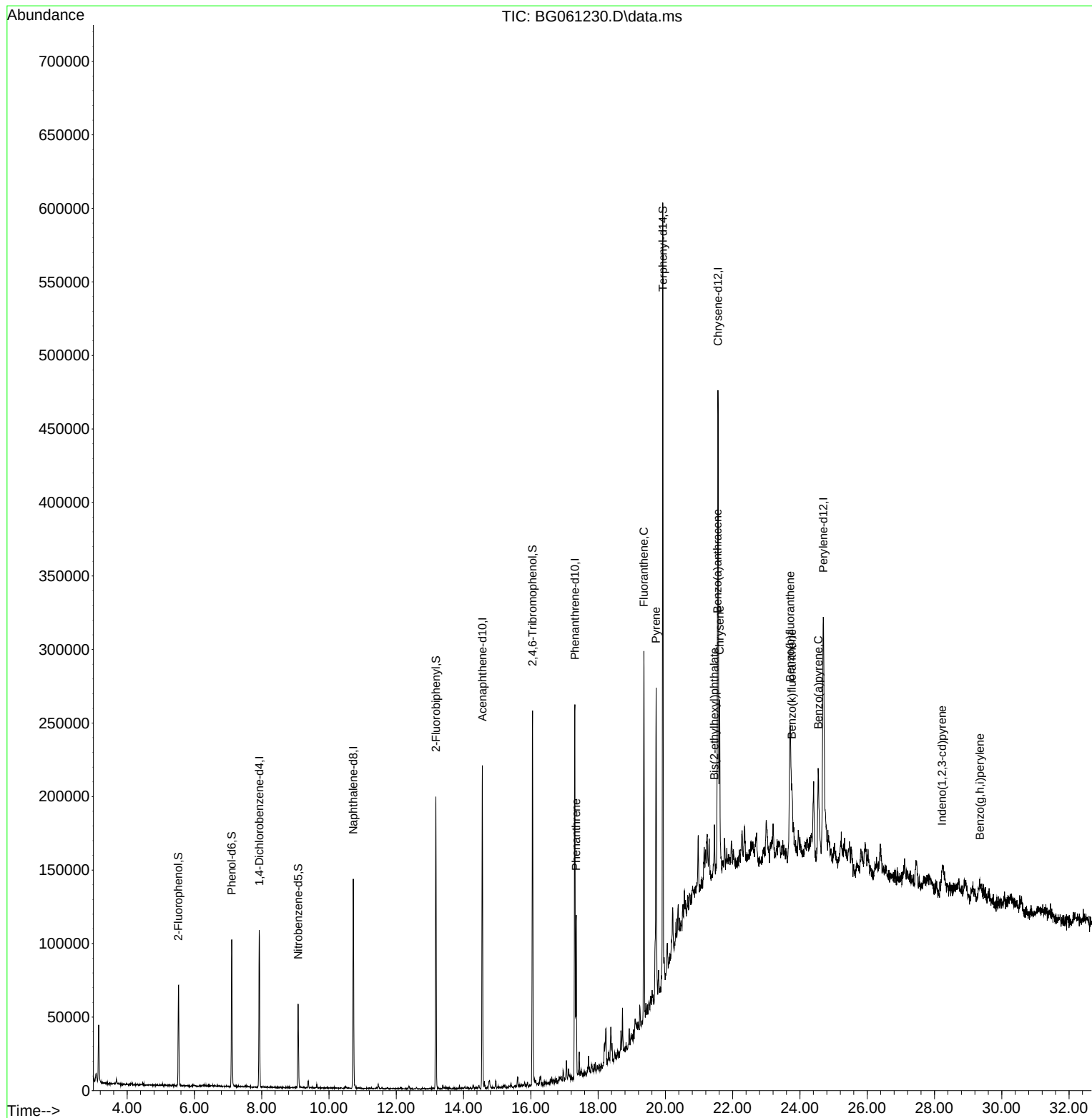
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG051624\  
Data File : BG061230.D  
Acq On : 16 May 2024 21:26  
Operator : MA/JU  
Sample : P2488-01 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

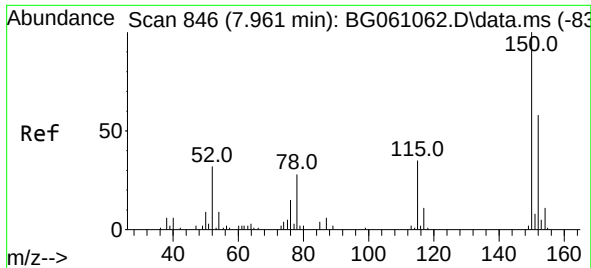
Instrument :  
BNA\_G  
ClientSampleId :  
SP-G-COMP

Quant Time: May 17 01:21:17 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 01 05:11:25 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024





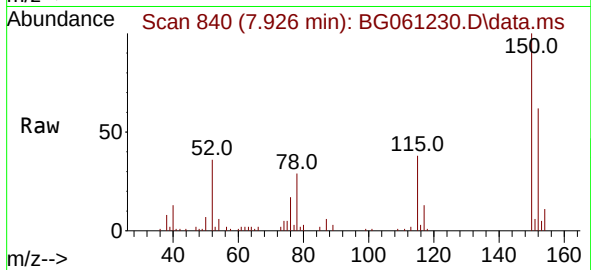
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.926 min Scan# 846  
Delta R.T. -0.035 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Instrument :

BNA\_G

ClientSampleId :

SP-G-COMP

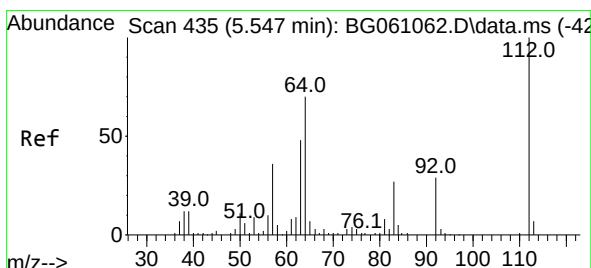
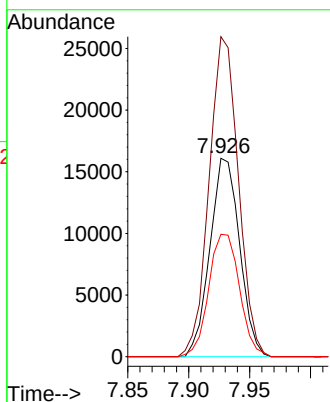
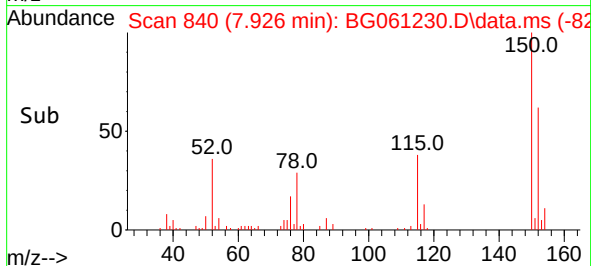


Tgt Ion:152 Resp: 27290  
Ion Ratio Lower Upper  
152 100  
150 161.3 138.3 207.5  
115 61.7 48.0 72.0

Manual Integrations

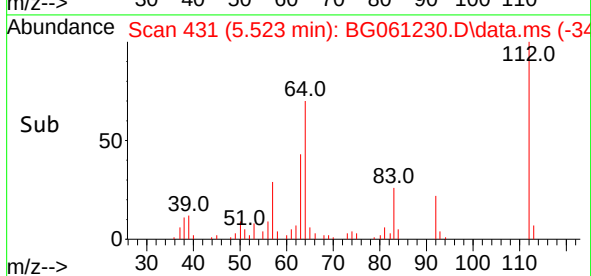
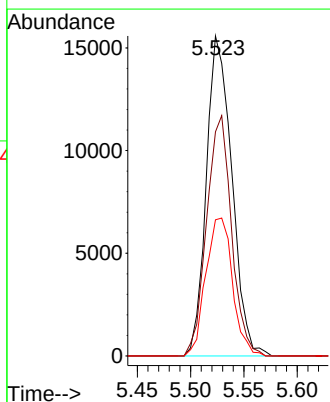
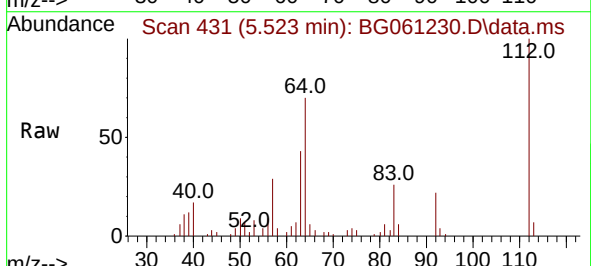
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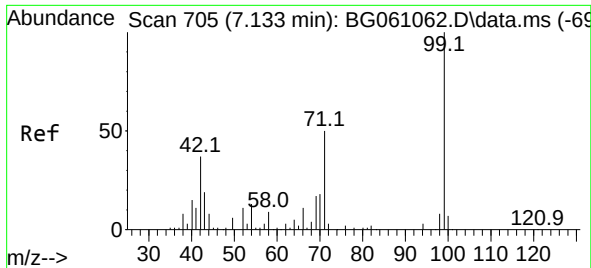
Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024



#5  
2-Fluorophenol  
Concen: 19.319 ng  
RT: 5.523 min Scan# 431  
Delta R.T. -0.023 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Tgt Ion:112 Resp: 25924  
Ion Ratio Lower Upper  
112 100  
64 70.1 55.7 83.5  
63 42.6 38.1 57.1





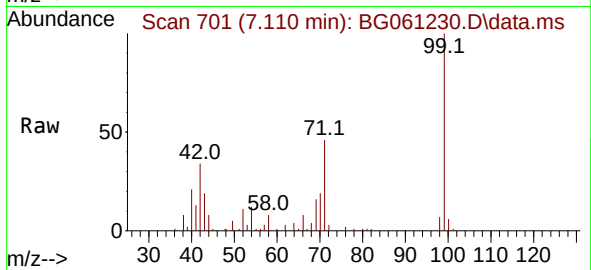
#7  
Phenol-d6  
Concen: 23.124 ng  
RT: 7.110 min Scan# 705  
Delta R.T. -0.023 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Instrument :

BNA\_G

ClientSampleId :

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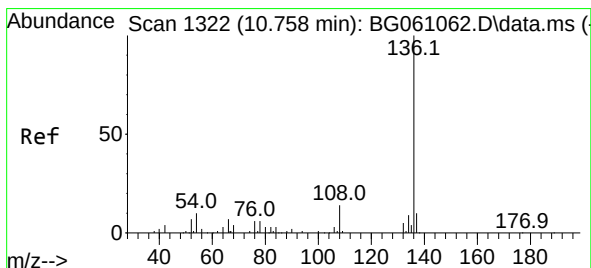
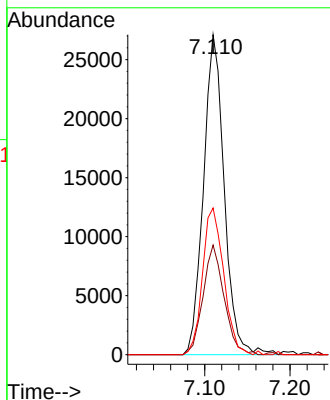
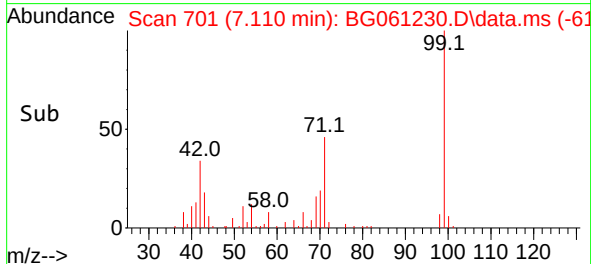


Tgt Ion: 99 Resp: 4590  
Ion Ratio Lower Upper  
99 100  
42 34.2 29.2 43.8  
71 45.8 39.7 59.5

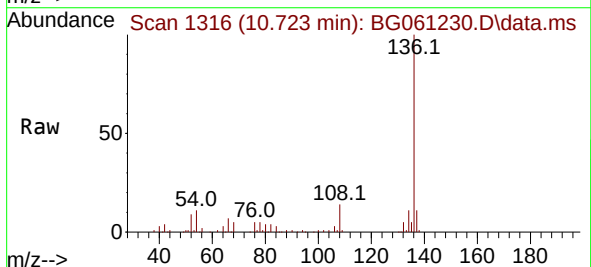
Manual Integrations

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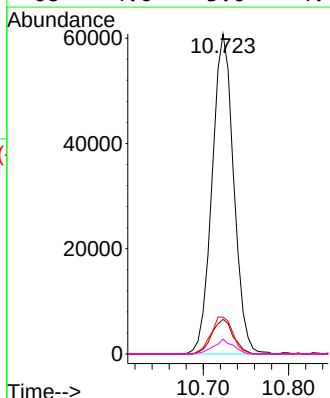
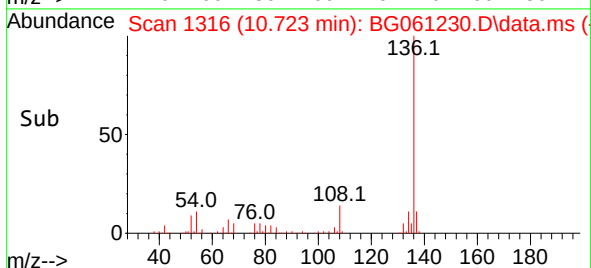
Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024

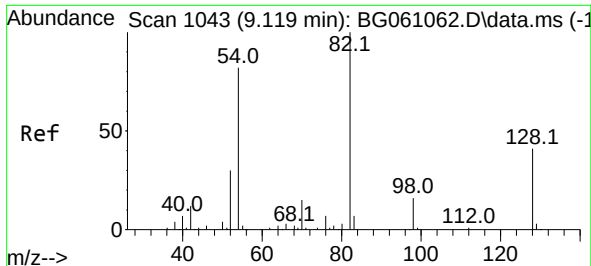


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.723 min Scan# 1316  
Delta R.T. -0.035 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26



Tgt Ion:136 Resp: 106831  
Ion Ratio Lower Upper  
136 100  
137 10.8 7.8 11.6  
54 11.5 8.1 12.1  
68 4.6 3.0 4.4#





#23

Nitrobenzene-d5

Concen: 13.126 ng

RT: 9.084 min Scan# 1043

Delta R.T. -0.035 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

Instrument :

BNA\_G

ClientSampleId :

SP-G-COMP

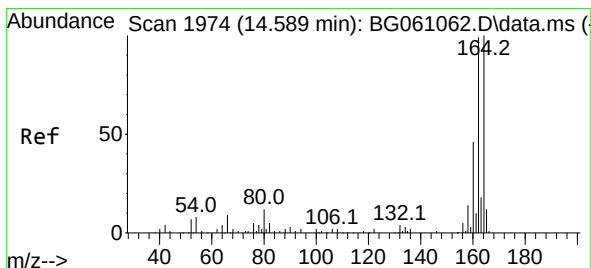
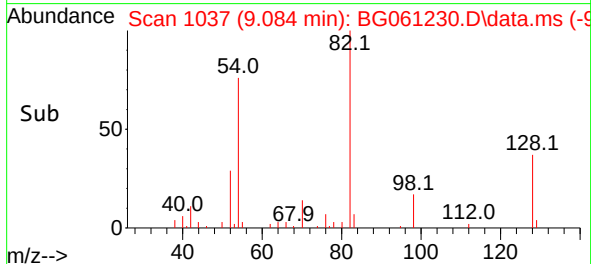
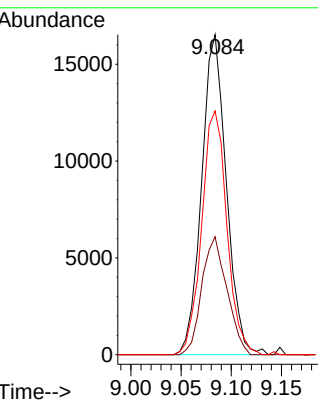
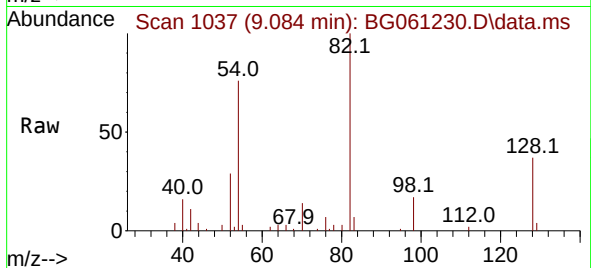
Tgt Ion: 82 Resp: 2828

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 36.8  | 32.7  | 49.1  |
| 54  | 76.2  | 65.6  | 98.4  |

Manual Integrations

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Supervised By :mohammad ahmed 05/18/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.560 min Scan# 1969

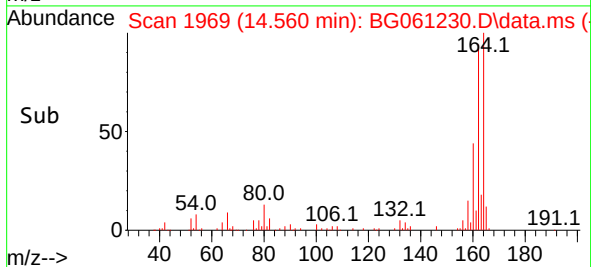
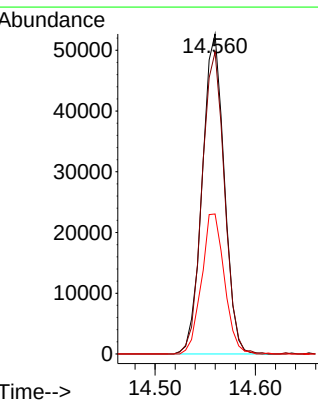
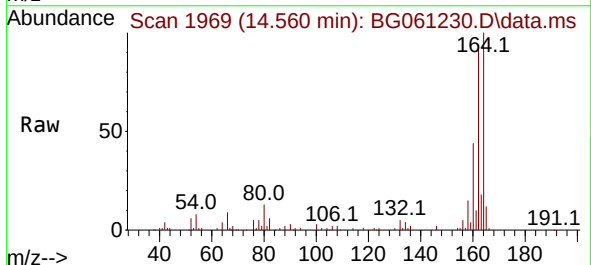
Delta R.T. -0.029 min

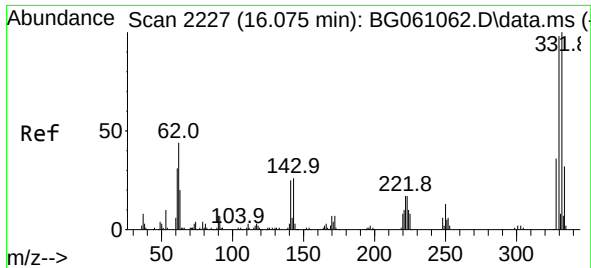
Lab File: BG061230.D

Acq: 16 May 2024 21:26

Tgt Ion:164 Resp: 79974

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 94.4  | 79.4  | 119.2 |
| 160 | 43.7  | 37.0  | 55.6  |





#42  
2,4,6-Tribromophenol  
Concen: 35.512 ng  
RT: 16.052 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Instrument :

BNA\_G

ClientSampleId :

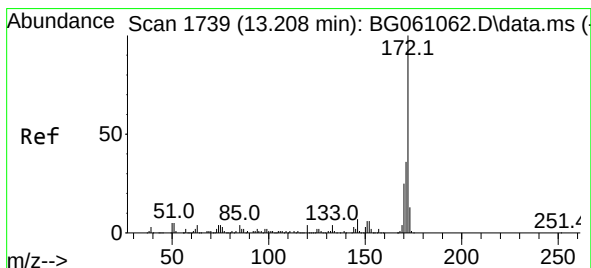
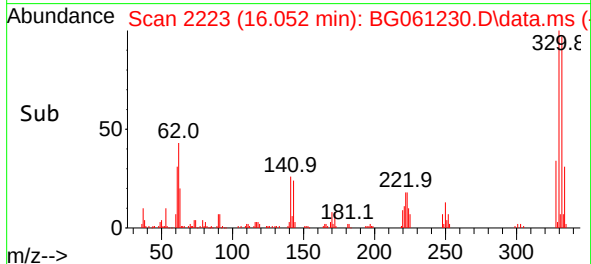
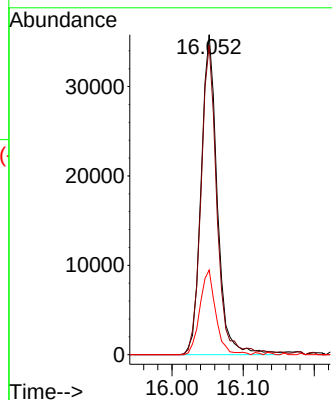
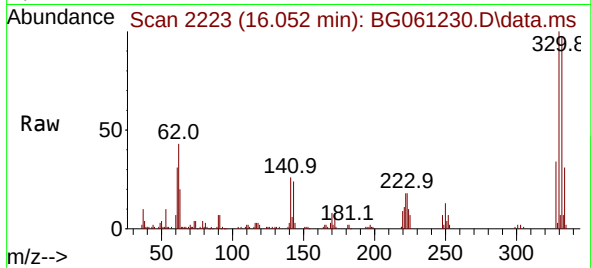
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Tgt Ion:330 Resp: 5676  
Ion Ratio Lower Upper  
330 100  
332 95.7 78.6 117.8  
141 26.0 20.5 30.7

Manual Integrations

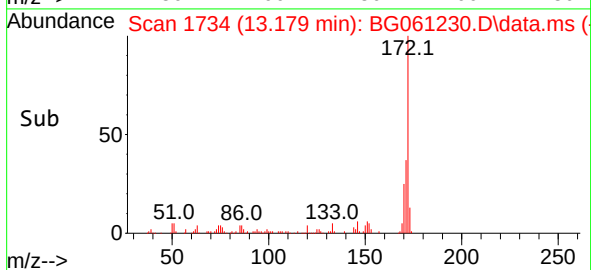
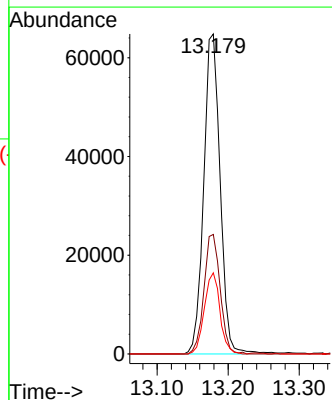
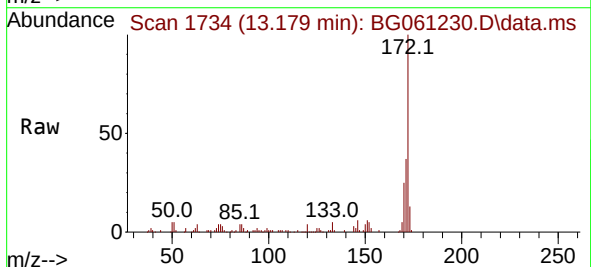
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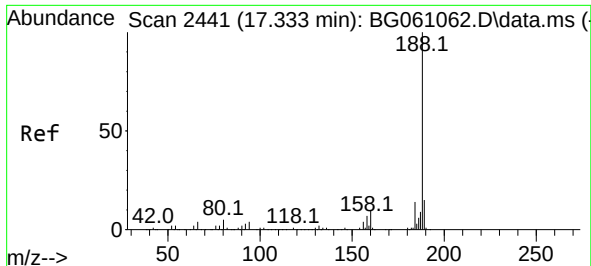
Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024



#45  
2-Fluorobiphenyl  
Concen: 19.310 ng  
RT: 13.179 min Scan# 1734  
Delta R.T. -0.029 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Tgt Ion:172 Resp: 104437  
Ion Ratio Lower Upper  
172 100  
171 37.4 29.0 43.6  
170 25.4 20.2 30.4





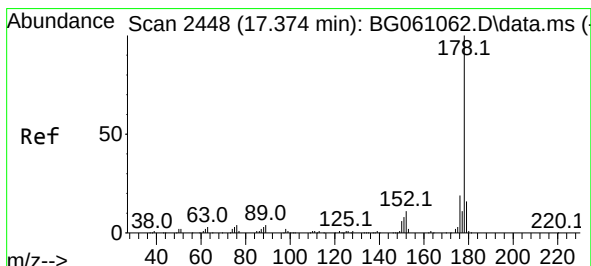
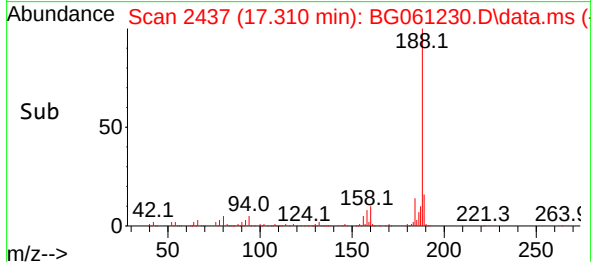
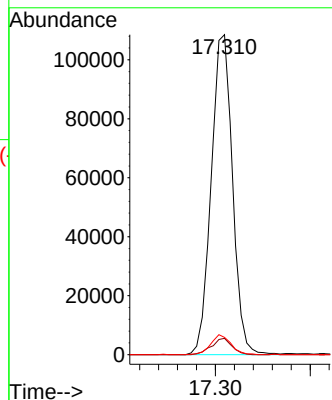
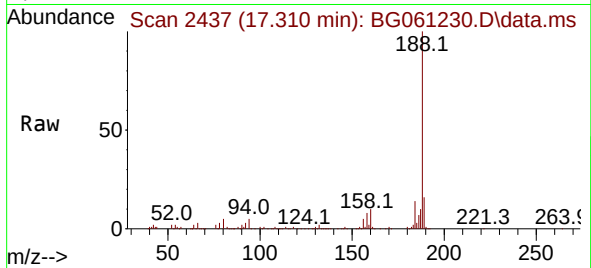
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.310 min Scan# 2437  
Delta R.T. -0.023 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Instrument :  
BNA\_G  
ClientSampleId :  
SP-G-COMP

Tgt Ion:188 Resp: 16914  
Ion Ratio Lower Upper  
188 100  
94 5.1 3.6 5.4  
80 5.4 4.2 6.2

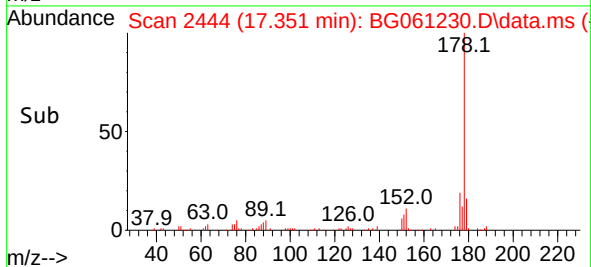
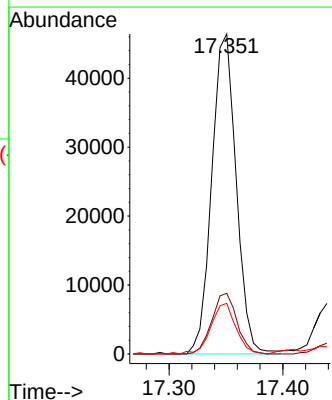
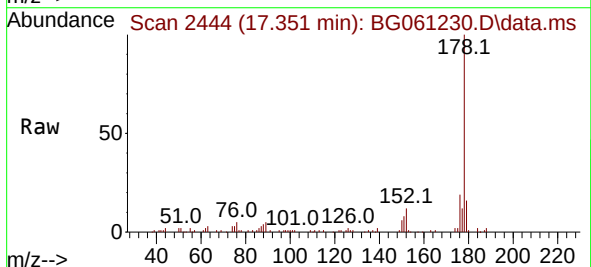
Manual Integrations  
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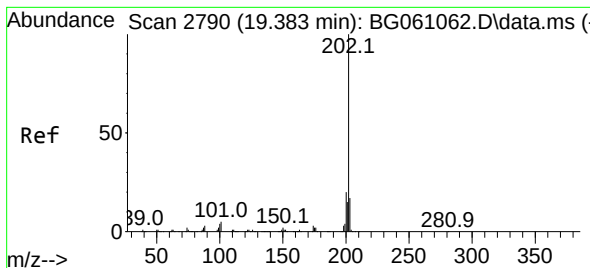
Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024



#71  
Phenanthrene  
Concen: 8.957 ng  
RT: 17.351 min Scan# 2444  
Delta R.T. -0.023 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Tgt Ion:178 Resp: 69270  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.5 23.3  
179 15.8 12.6 19.0





#75

Fluoranthene

Concen: 16.027 ng

RT: 19.360 min Scan# 21

Delta R.T. -0.023 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

Instrument :

BNA\_G

ClientSampleId :

SP-G-COMP

Tgt Ion:202 Resp: 169809

Ion Ratio Lower Upper

202 100

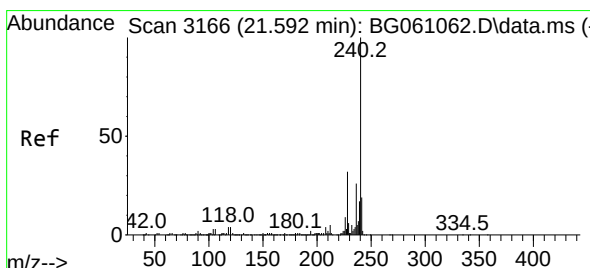
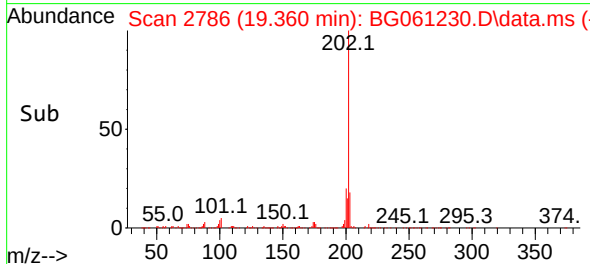
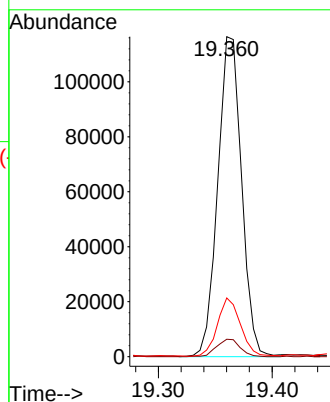
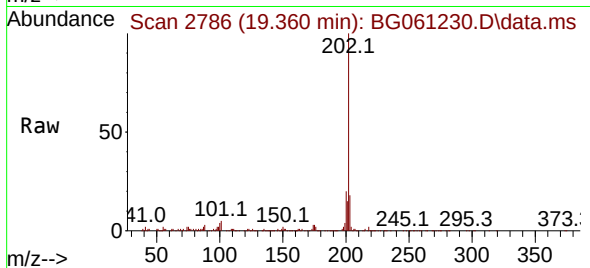
101 5.5 0.0 24.7

203 18.4 0.0 37.1

Manual Integrations

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Supervised By :mohammad ahmed 05/18/2024



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.563 min Scan# 3161

Delta R.T. -0.029 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

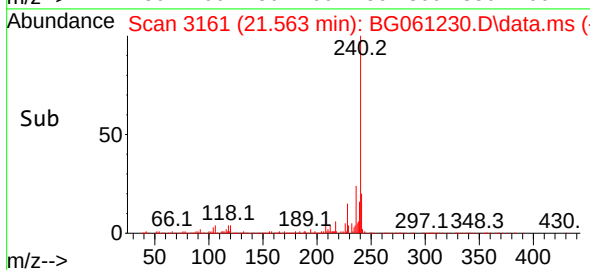
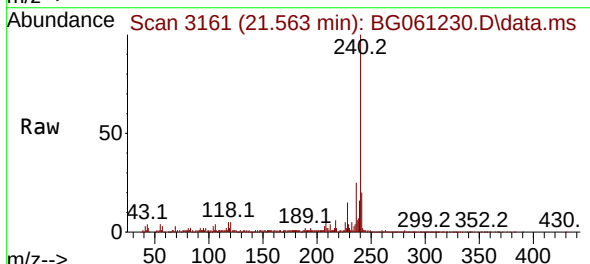
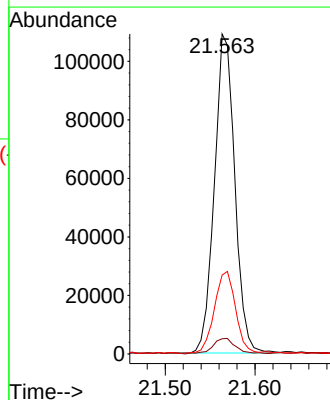
Tgt Ion:240 Resp: 171775

Ion Ratio Lower Upper

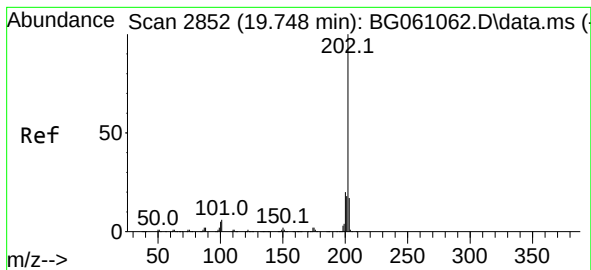
240 100

120 4.7 3.2 4.8

236 24.7 21.0 31.6







#78

Pyrene

Concen: 13.169 ng

RT: 19.724 min Scan# 2848

Delta R.T. -0.023 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

Instrument :

BNA\_G

ClientSampleId :

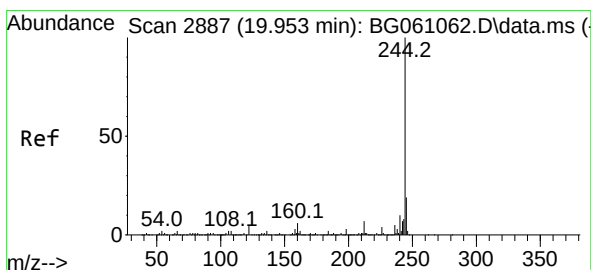
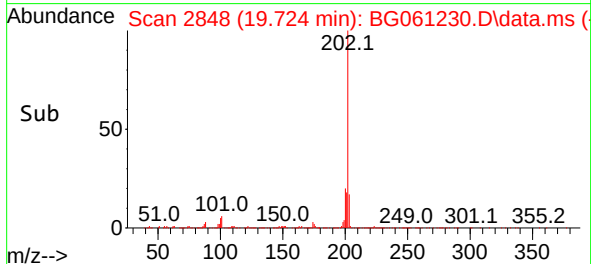
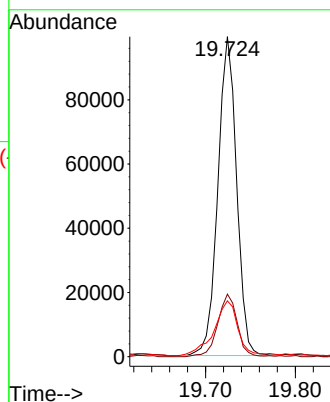
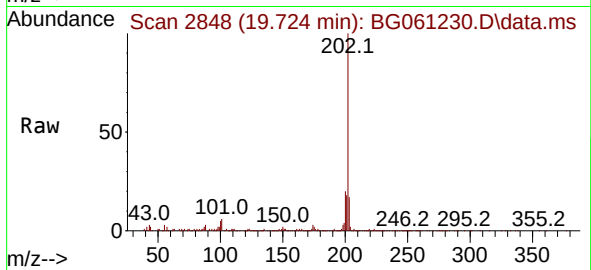
SP-G-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 14381 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 19.5  | 16.2  | 24.4  |
| 203       | 17.5  | 13.3  | 19.9  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024



#79

Terphenyl-d14

Concen: 25.990 ng

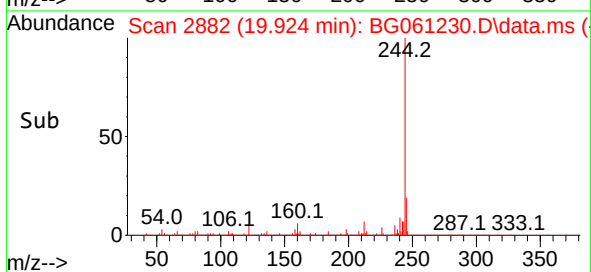
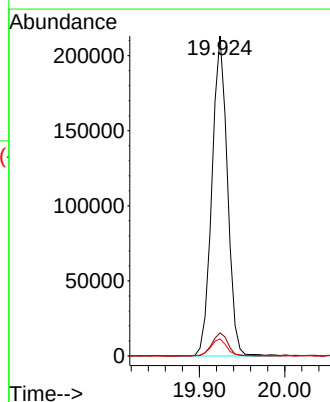
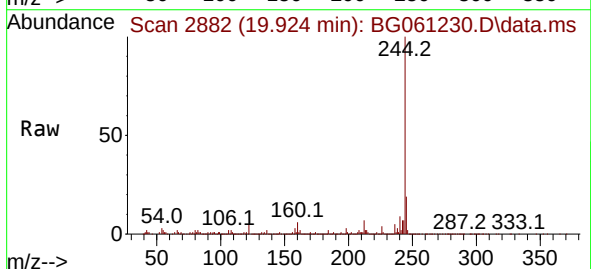
RT: 19.924 min Scan# 2882

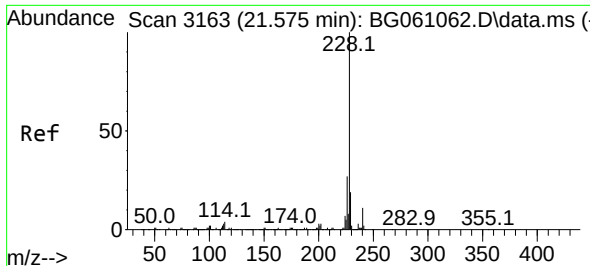
Delta R.T. -0.029 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

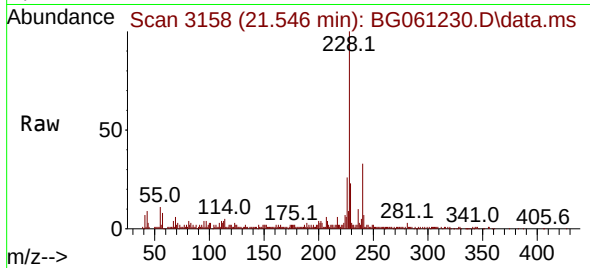
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 268437 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.2   | 5.7   | 8.5    |
| 122       | 5.3   | 4.2   | 6.2    |





#81  
Benzo(a)anthracene  
Concen: 7.110 ng m  
RT: 21.546 min Scan# 3163  
Delta R.T. -0.029 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

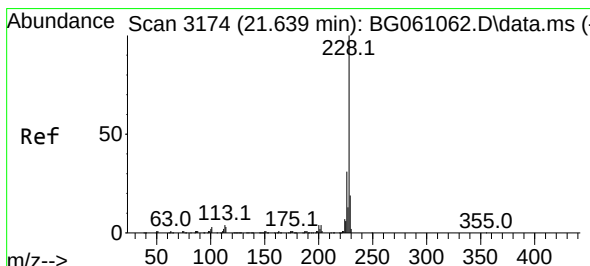
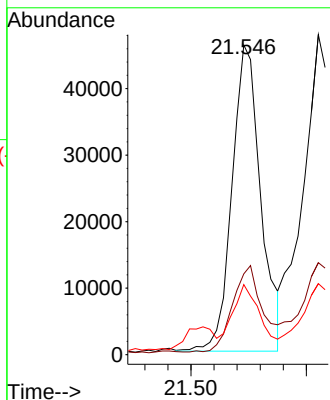
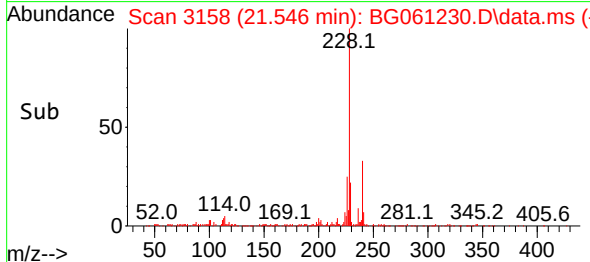
Instrument :  
BNA\_G  
ClientSampleId :  
SP-G-COMP



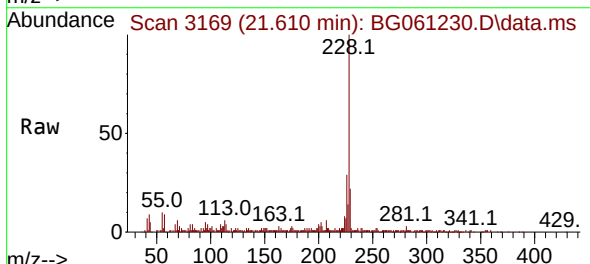
Tgt Ion:228 Resp: 7992  
Ion Ratio Lower Upper  
228 100  
226 26.1 21.6 32.4  
229 22.6 15.0 22.4

Manual Integrations  
APPROVED

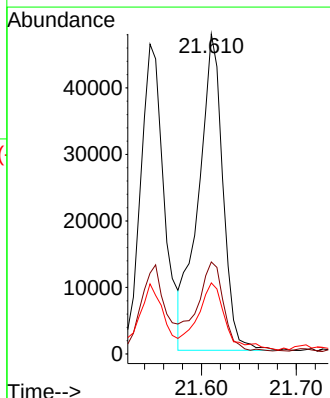
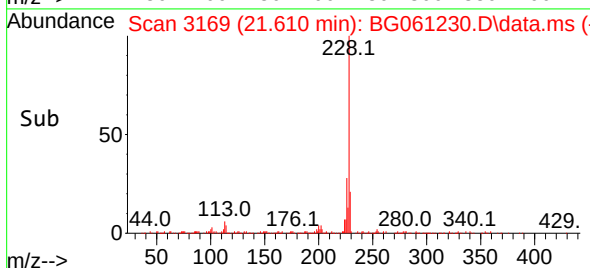
Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024

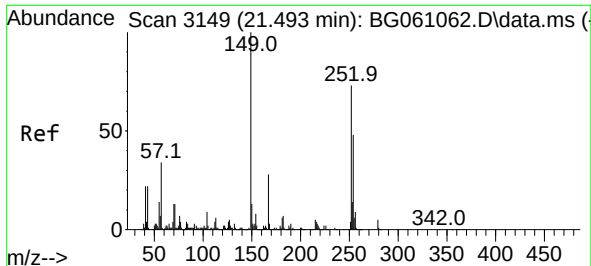


#83  
Chrysene  
Concen: 8.115 ng  
RT: 21.610 min Scan# 3169  
Delta R.T. -0.029 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26



Tgt Ion:228 Resp: 85466  
Ion Ratio Lower Upper  
228 100  
226 28.8 24.4 36.6  
229 22.2 14.8 22.2





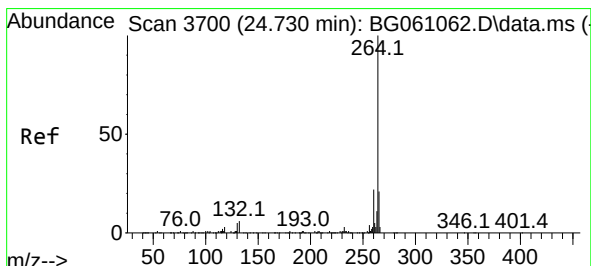
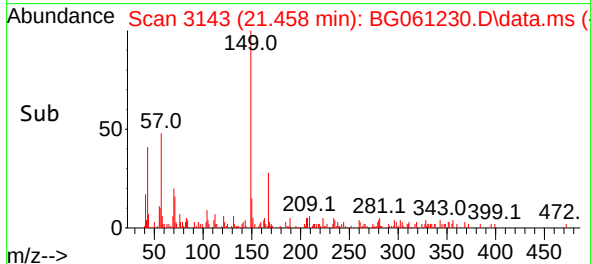
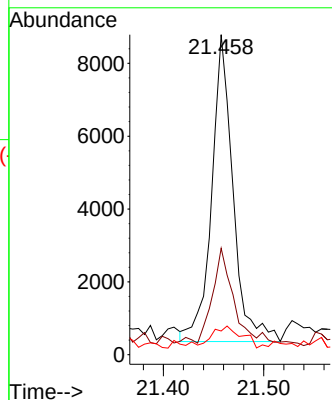
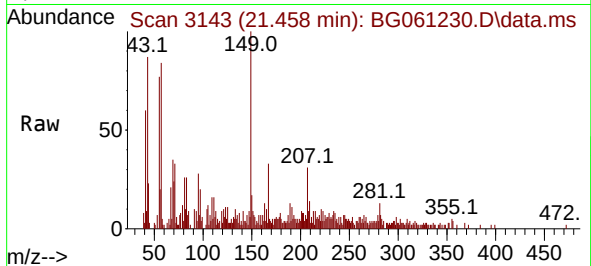
#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.760 ng  
RT: 21.458 min Scan# 3149  
Delta R.T. -0.035 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Instrument :  
BNA\_G  
ClientSampleId :  
SP-G-COMP

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 1246 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 33.2  | 22.1  | 33.1 |
| 279       | 7.4   | 4.1   | 6.1  |

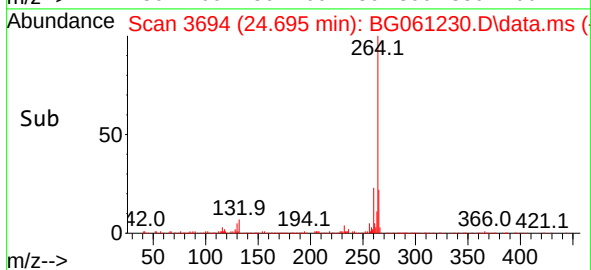
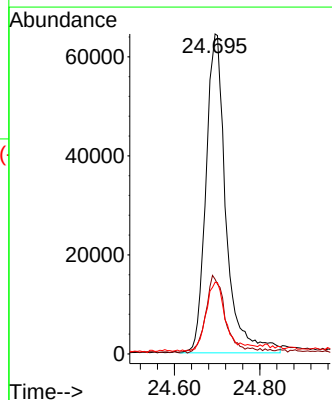
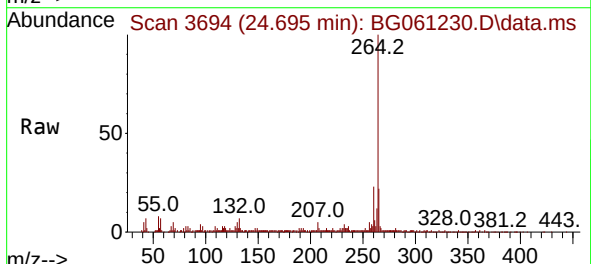
Manual Integrations  
APPROVED

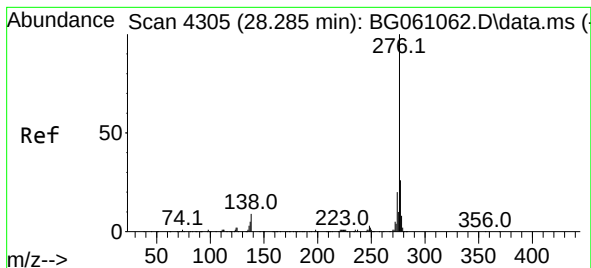
Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.695 min Scan# 3694  
Delta R.T. -0.035 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 209474 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.3  | 17.7  | 26.5   |
| 265       | 22.4  | 16.4  | 24.6   |





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.148 ng m

RT: 28.226 min Scan# 4305

Delta R.T. -0.058 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

Instrument :

BNA\_G

ClientSampleId :

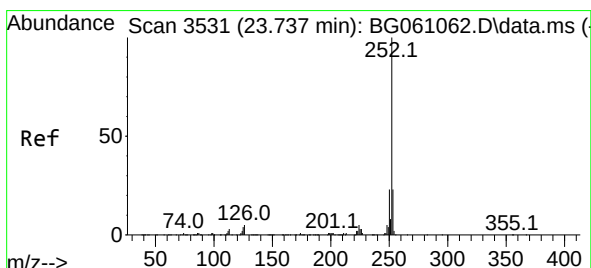
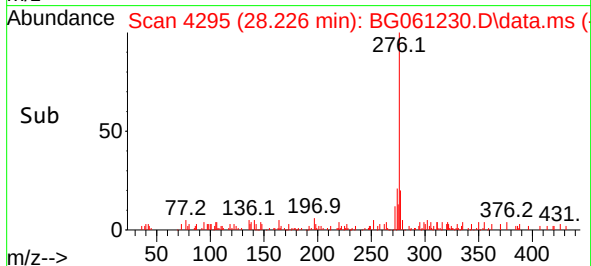
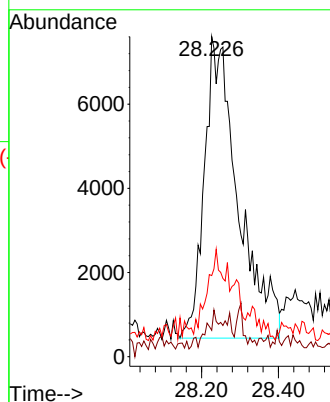
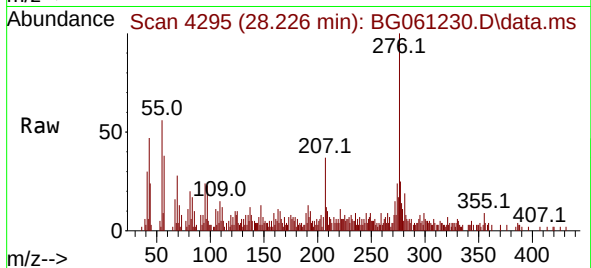
SP-G-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 43700 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 4.4   | 5.1   | 7.7   |
| 277       | 12.5  | 20.6  | 30.8  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024



#88

Benzo(b)fluoranthene

Concen: 9.995 ng

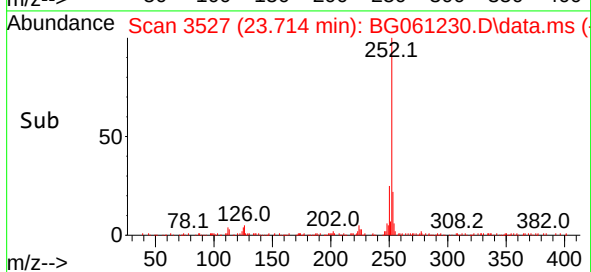
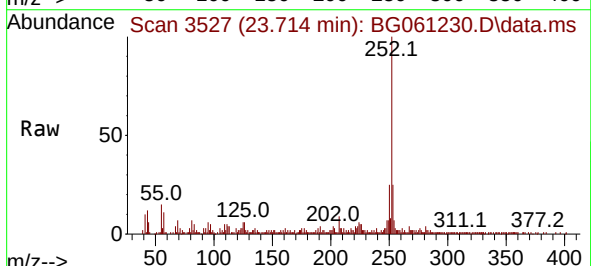
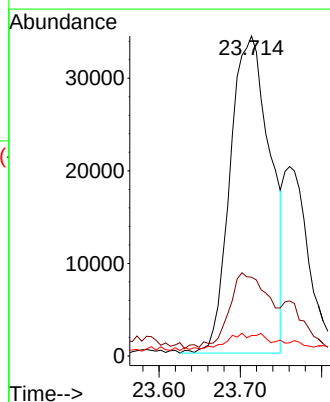
RT: 23.714 min Scan# 3527

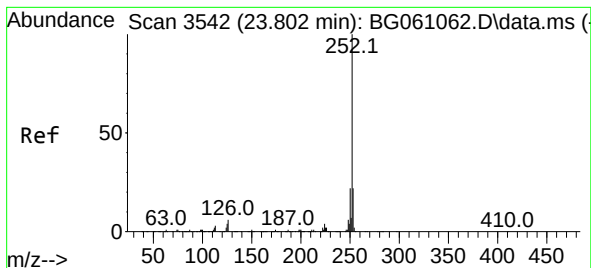
Delta R.T. -0.023 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 116997 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.6  | 18.2  | 27.2   |
| 125       | 6.4   | 3.4   | 5.0    |





#89

Benzo(k)fluoranthene

Concen: 3.658 ng m

RT: 23.761 min Scan# 3

Delta R.T. -0.041 min

Lab File: BG061230.D

Acq: 16 May 2024 21:26

Instrument :

BNL\_G

ClientSampleId :

SP-G-COMP

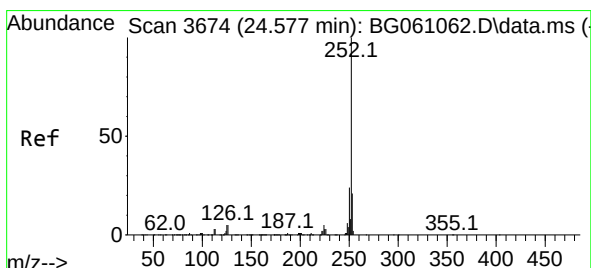
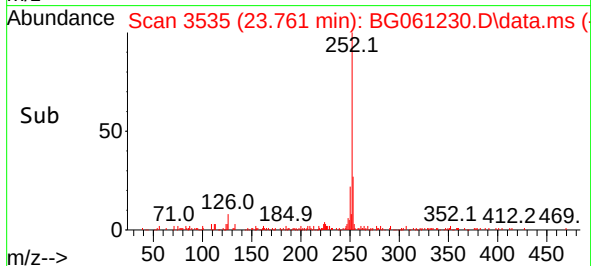
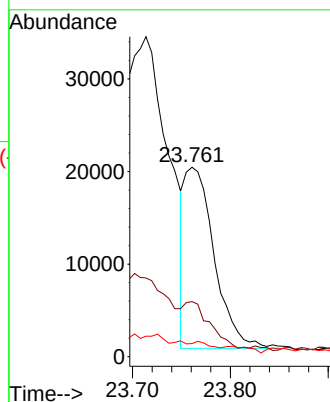
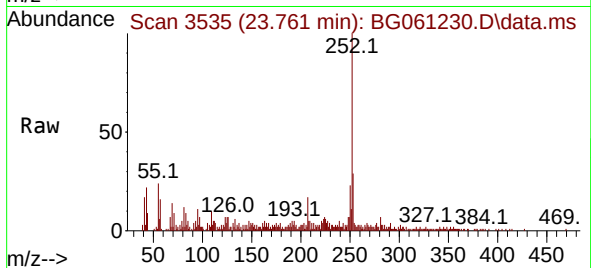
Tgt Ion:252 Resp: 4118

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 29.1  | 17.3  | 25.9  |
| 125 | 7.0   | 3.2   | 4.8   |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024



#90

Benzo(a)pyrene

Concen: 7.144 ng

RT: 24.548 min Scan# 3669

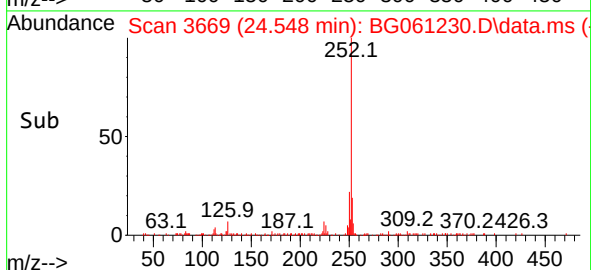
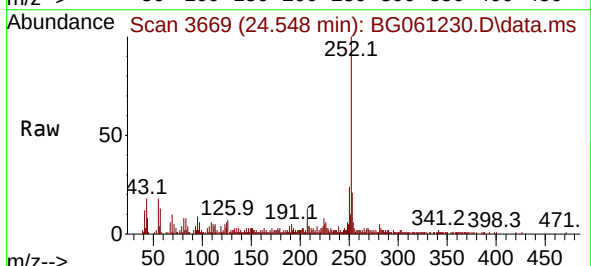
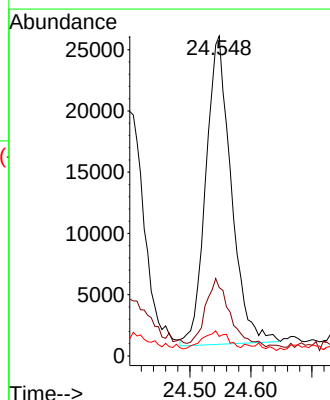
Delta R.T. -0.029 min

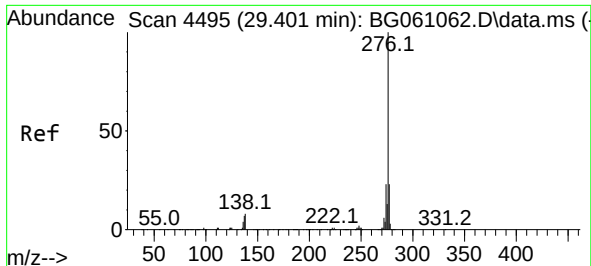
Lab File: BG061230.D

Acq: 16 May 2024 21:26

Tgt Ion:252 Resp: 72857

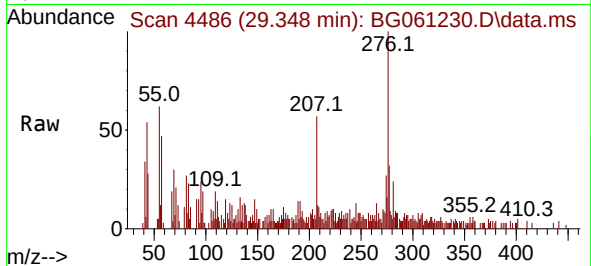
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.4  | 16.9  | 25.3  |
| 125 | 6.1   | 3.8   | 5.8   |





#92  
Benzo(g,h,i)perylene  
Concen: 3.533 ng m  
RT: 29.348 min Scan# 44  
Delta R.T. -0.053 min  
Lab File: BG061230.D  
Acq: 16 May 2024 21:26

Instrument :  
BNA\_G  
ClientSampleId :  
SP-G-COMP



Tgt Ion:276 Resp: 4036  
Ion Ratio Lower Upper  
276 100  
277 31.7 18.2 27.4  
138 11.6 6.2 9.2

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 05/17/2024  
Supervised By :mohammad ahmed 05/18/2024

