

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG112222\  
 Data File : BG055754.D  
 Acq On : 23 Nov 2022 00:48  
 Operator : CG/JU  
 Sample : N5718-01 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ETGI-339

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 11/23/2022  
 Supervised By : Jagrut Upadhyay 11/23/2022

Quant Time: Nov 23 01:42:31 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 23 01:35:20 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.247  | 152  | 56351    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.073 | 136  | 210805   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.887 | 164  | 122637   | 20.000 | ng    | 0.02     |
| 64) Phenanthrene-d10          | 17.713 | 188  | 101119m  | 20.000 | ng    | 0.11     |
| 76) Chrysene-d12              | 21.967 | 240  | 201885   | 20.000 | ng    | # 0.06   |
| 86) Perylene-d12              | 25.351 | 264  | 210145   | 20.000 | ng    | 0.05     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.780  | 112  | 37517    | 12.034 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.390  | 99   | 68456    | 16.495 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.417  | 82   | 59109    | 14.820 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.403 | 330  | 38004    | 22.007 | ng    | 0.05     |
| 45) 2-Fluorobiphenyl          | 13.494 | 172  | 168901   | 20.633 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.269 | 244  | 168425   | 16.686 | ng    | 0.08     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 30) 1,2,4-Trichlorobenzene    | 10.932 | 180  | 22339    | 5.489  | ng    | 98       |
| 37) 2-Methylnaphthalene       | 12.713 | 142  | 21060    | 2.468  | ng    | 95       |
| 50) Dimethylphthalate         | 14.311 | 163  | 196629   | 20.113 | ng    | # 76     |
| 71) Phenanthrene              | 17.754 | 178  | 281577m  | 51.601 | ng    |          |
| 75) Fluoranthene              | 19.757 | 202  | 187713m  | 28.276 | ng    |          |
| 78) Pyrene                    | 20.110 | 202  | 195854   | 14.332 | ng    | # 70     |
| 81) Benzo(a)anthracene        | 21.949 | 228  | 136472   | 9.815  | ng    | # 89     |
| 83) Chrysene                  | 22.014 | 228  | 160175m  | 12.100 | ng    |          |
| 84) Bis(2-ethylhexyl)phtha... | 21.784 | 149  | 84178    | 10.949 | ng    | # 85     |
| 87) Indeno(1,2,3-cd)pyrene    | 29.276 | 276  | 66067m   | 3.838  | ng    |          |
| 88) Benzo(b)fluoranthene      | 24.276 | 252  | 213426   | 15.595 | ng    | # 91     |
| 89) Benzo(k)fluoranthene      | 24.334 | 252  | 80257m   | 5.883  | ng    |          |
| 90) Benzo(a)pyrene            | 25.192 | 252  | 129618   | 11.037 | ng    | # 90     |
| 92) Benzo(g,h,i)perylene      | 30.515 | 276  | 58515m   | 4.127  | ng    |          |
| -----                         |        |      |          |        |       |          |

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

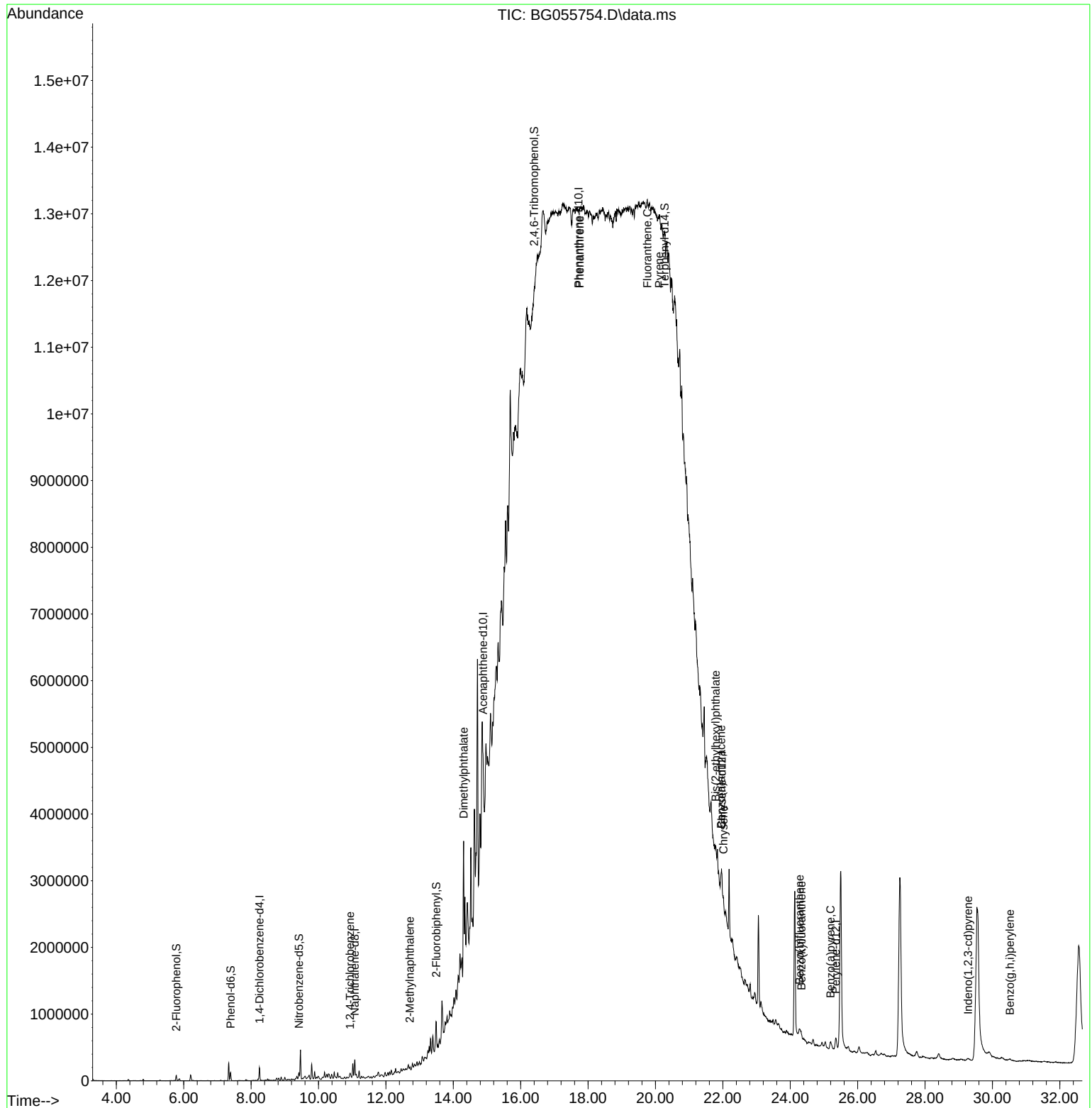
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG112222\  
Data File : BG055754.D  
Acq On : 23 Nov 2022 00:48  
Operator : CG/JU  
Sample : N5718-01 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

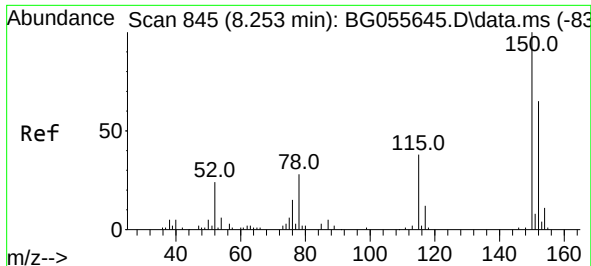
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339

Quant Time: Nov 23 01:42:31 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG11622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 23 01:35:20 2022  
Response via : Initial Calibration

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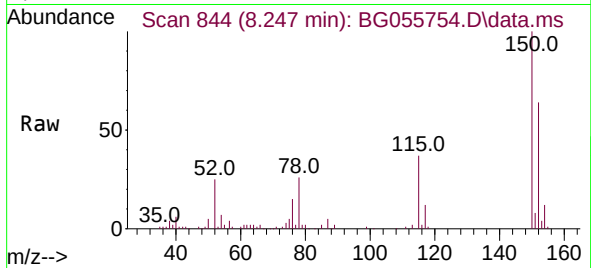
Reviewed By : Christian Giraldo 11/23/2022  
Supervised By : Jagrut Upadhyay 11/23/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.247 min Scan# 845  
Delta R.T. 0.001 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

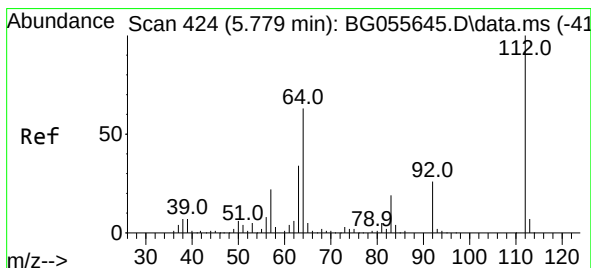
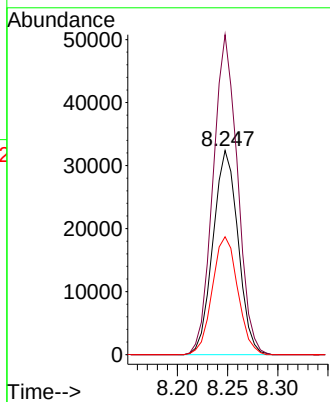
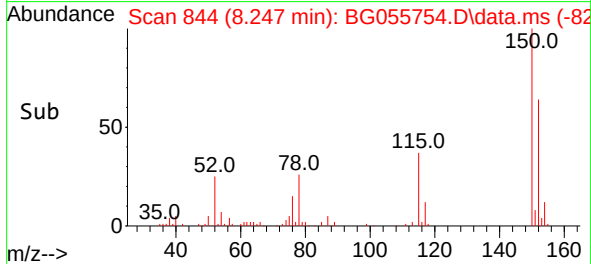
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



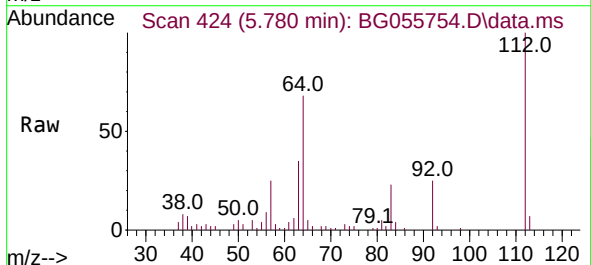
Tgt Ion:152 Resp: 5635  
Ion Ratio Lower Upper  
152 100  
150 156.8 123.0 184.6  
115 57.8 47.0 70.4

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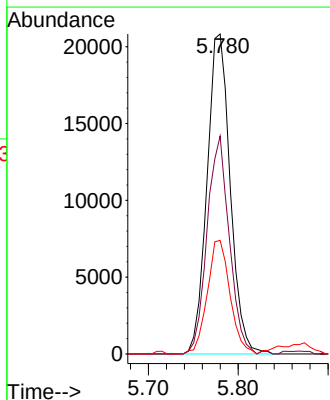
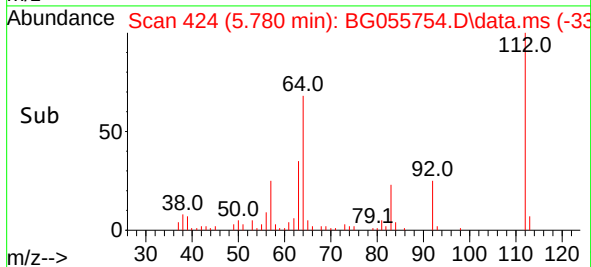
Reviewed By :Christian Giraldo 11/23/2022  
Supervised By :Jagrut Upadhyay 11/23/2022

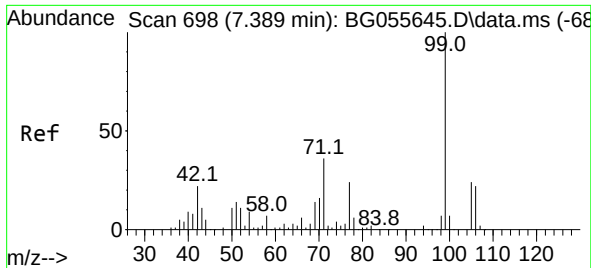


#5  
2-Fluorophenol  
Concen: 12.034 ng  
RT: 5.780 min Scan# 424  
Delta R.T. 0.007 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48



Tgt Ion:112 Resp: 37517  
Ion Ratio Lower Upper  
112 100  
64 68.1 50.6 76.0  
63 35.5 27.5 41.3





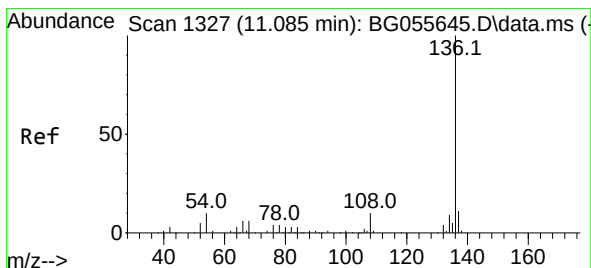
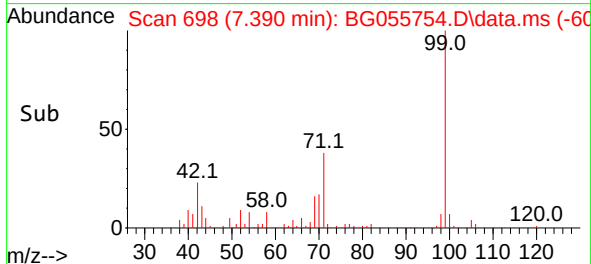
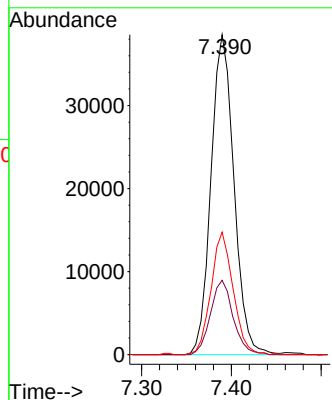
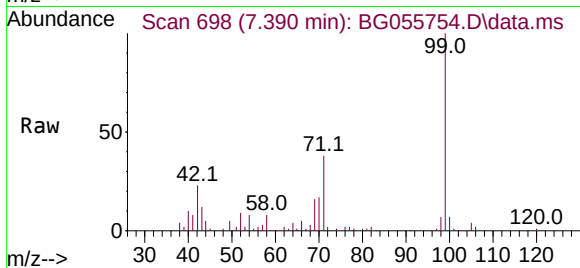
#7  
Phenol-d6  
Concen: 16.495 ng  
RT: 7.390 min Scan# 698  
Delta R.T. 0.002 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

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Tgt Ion: 99 Resp: 68456  
Ion Ratio Lower Upper  
99 100  
42 23.2 18.0 27.0  
71 38.3 29.0 43.6

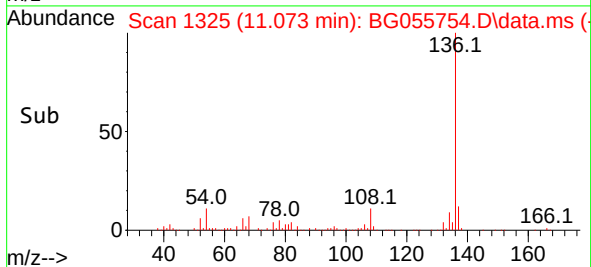
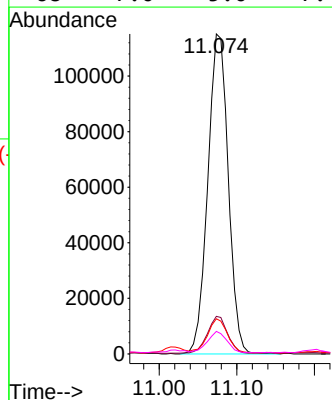
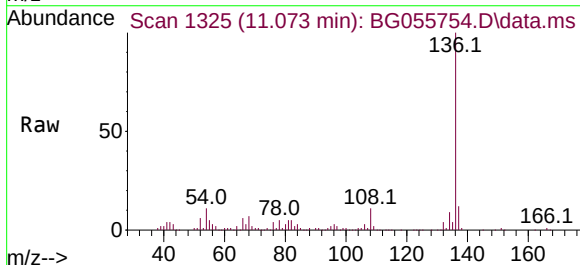
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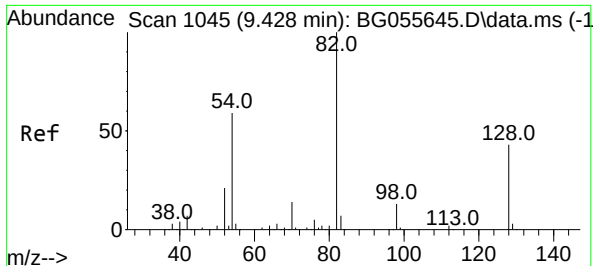
Reviewed By :Christian Giraldo 11/23/2022  
Supervised By :Jagrut Upadhyay 11/23/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.073 min Scan# 1325  
Delta R.T. 0.002 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

Tgt Ion:136 Resp: 210805  
Ion Ratio Lower Upper  
136 100  
137 11.8 9.0 13.6  
54 11.0 7.8 11.6  
68 7.0 5.0 7.4





#23

Nitrobenzene-d5

Concen: 14.820 ng

RT: 9.417 min Scan# 1043

Delta R.T. 0.002 min

Lab File: BG055754.D

Acq: 23 Nov 2022 00:48

Instrument :

BNA\_G

ClientSampleId :

ETGI-339

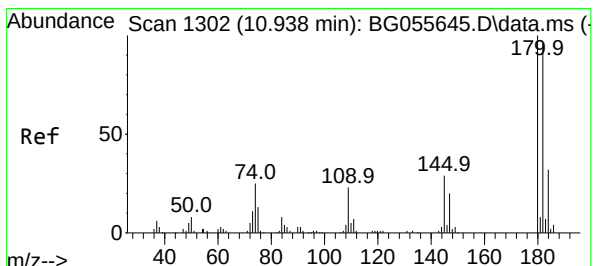
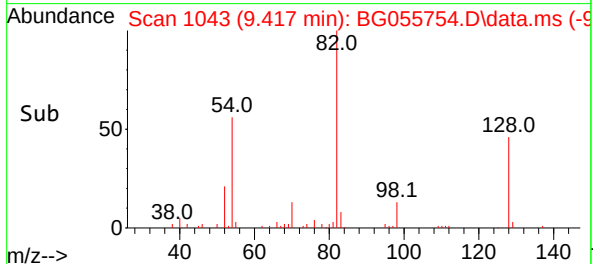
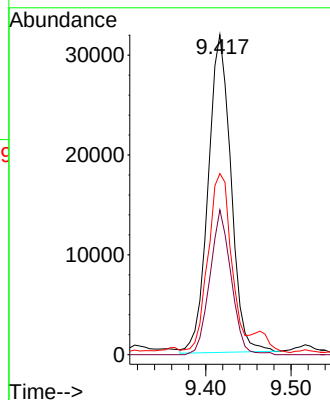
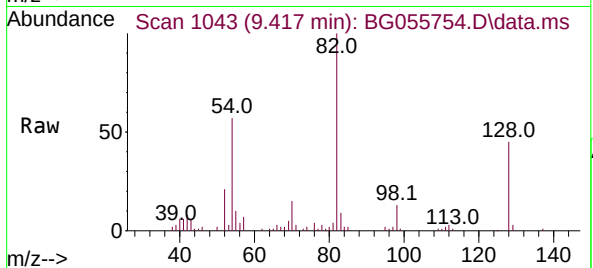
|             |             |
|-------------|-------------|
| Tgt Ion: 82 | Resp: 59109 |
| Ion Ratio   | Lower Upper |
| 82 100      |             |
| 128 45.2    | 34.1 51.1   |
| 54 56.6     | 47.3 70.9   |

Manual Integrations

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Supervised By :Jagrut Upadhyay 11/23/2022



#30

1,2,4-Trichlorobenzene

Concen: 5.489 ng

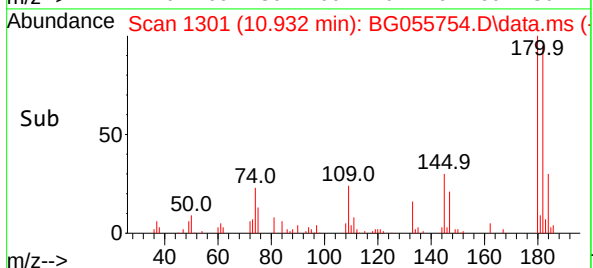
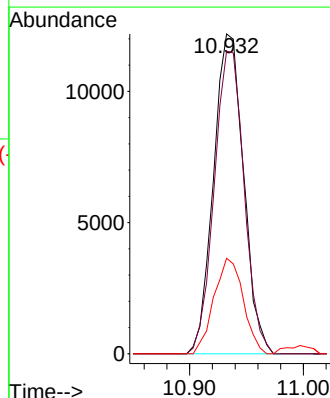
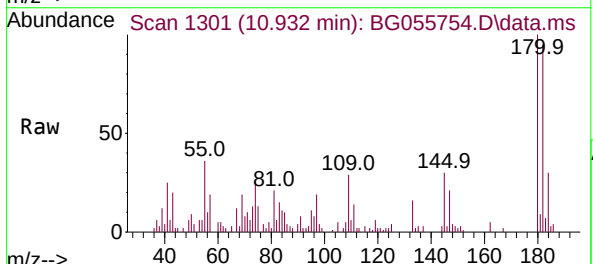
RT: 10.932 min Scan# 1301

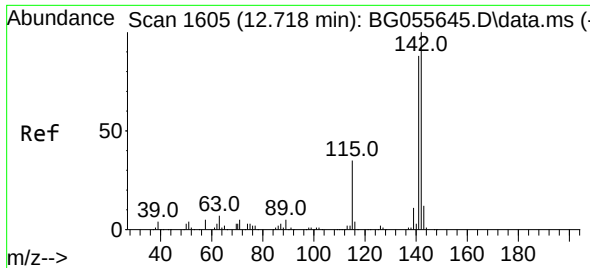
Delta R.T. 0.002 min

Lab File: BG055754.D

Acq: 23 Nov 2022 00:48

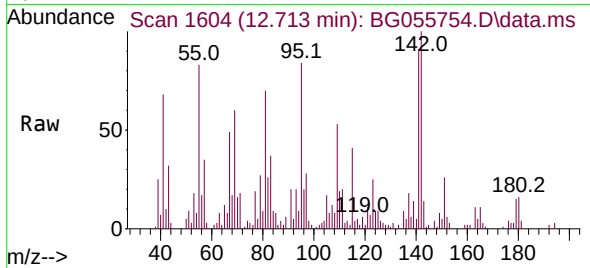
|             |             |
|-------------|-------------|
| Tgt Ion:180 | Resp: 22339 |
| Ion Ratio   | Lower Upper |
| 180 100     |             |
| 182 94.6    | 77.1 115.7  |
| 145 29.9    | 22.9 34.3   |





#37  
2-Methylnaphthalene  
Concen: 2.468 ng  
RT: 12.713 min Scan# 1604  
Delta R.T. 0.002 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

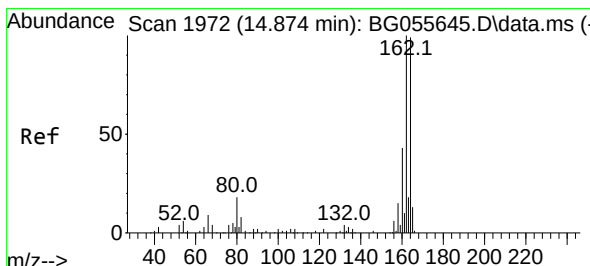
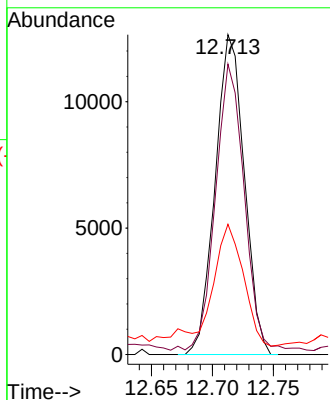
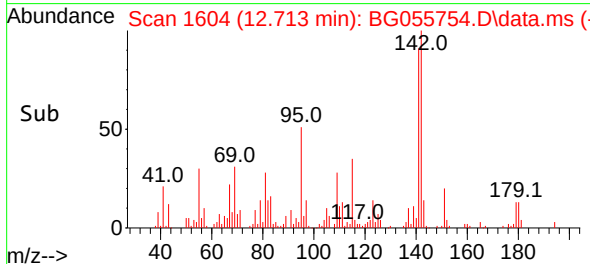
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



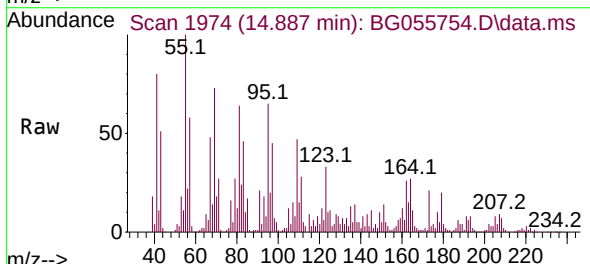
Tgt Ion:142 Resp: 21060  
Ion Ratio Lower Upper  
142 100  
141 90.8 70.3 105.5  
115 40.7 27.9 41.9

Manual Integrations  
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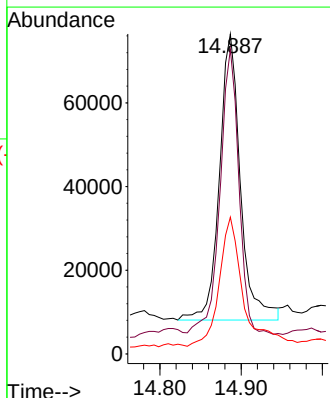
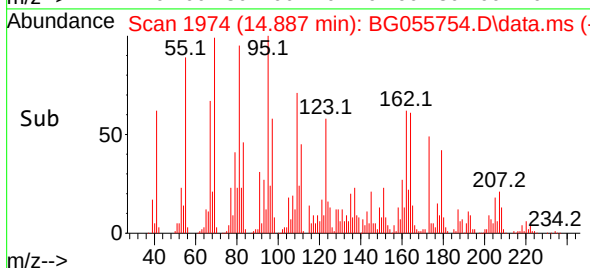
Reviewed By :Christian Giraldo 11/23/2022  
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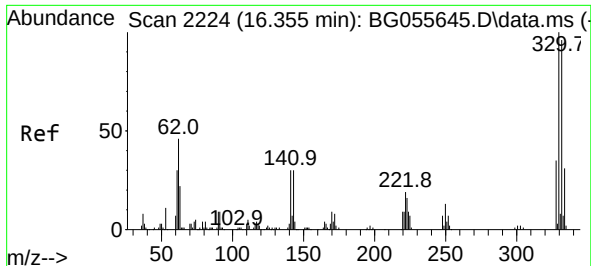


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.887 min Scan# 1974  
Delta R.T. 0.019 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48



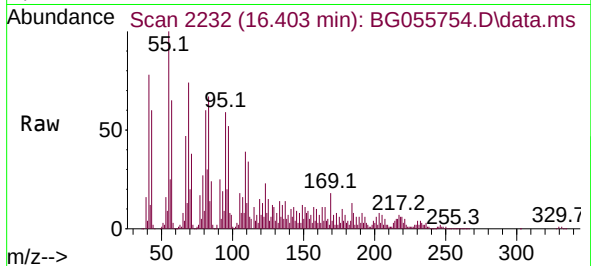
Tgt Ion:164 Resp: 122637  
Ion Ratio Lower Upper  
164 100  
162 95.2 81.1 121.7  
160 42.7 34.8 52.2





#42  
2,4,6-Tribromophenol  
Concen: 22.007 ng  
RT: 16.403 min Scan# 21  
Delta R.T. 0.054 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

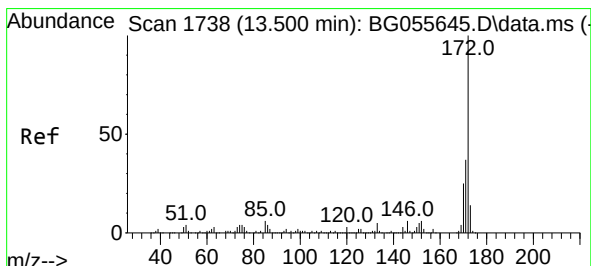
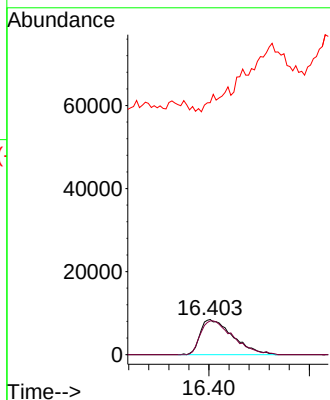
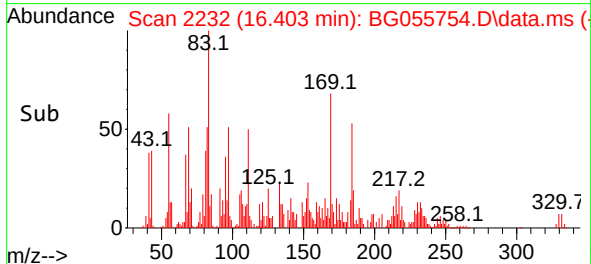
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



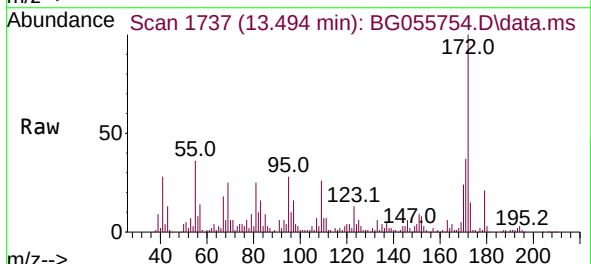
Tgt Ion:330 Resp: 38004  
Ion Ratio Lower Upper  
330 100  
332 96.3 77.8 116.8  
141 0.0 23.9 35.9

Manual Integrations  
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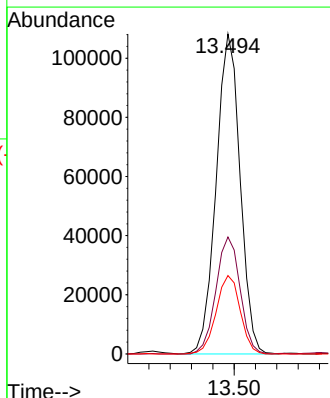
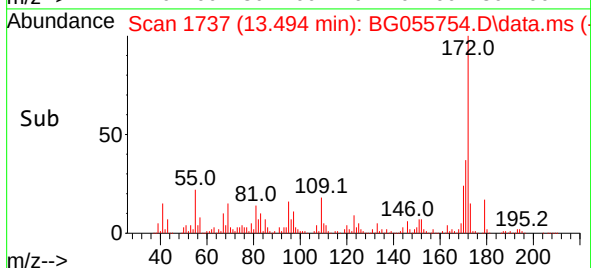
Reviewed By :Christian Giraldo 11/23/2022  
Supervised By :Jagrut Upadhyay 11/23/2022

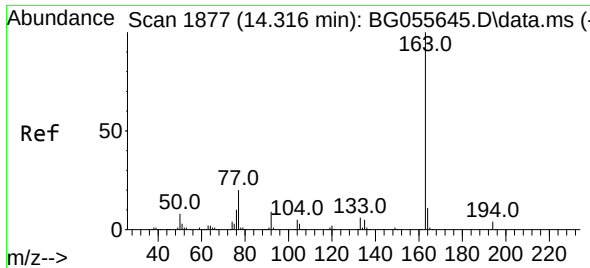


#45  
2-Fluorobiphenyl  
Concen: 20.633 ng  
RT: 13.494 min Scan# 1737  
Delta R.T. 0.002 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48



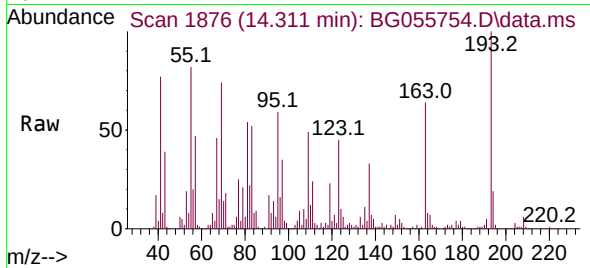
Tgt Ion:172 Resp: 168901  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.8 44.6  
170 24.5 20.2 30.4





#50  
Dimethylphthalate  
Concen: 20.113 ng  
RT: 14.311 min Scan# 1877  
Delta R.T. 0.002 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

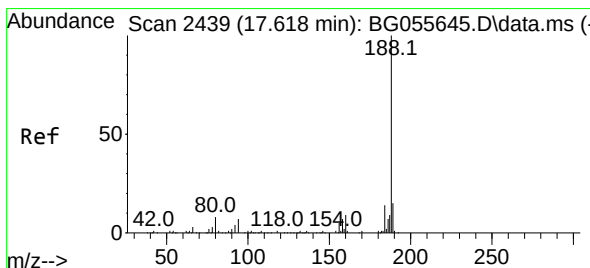
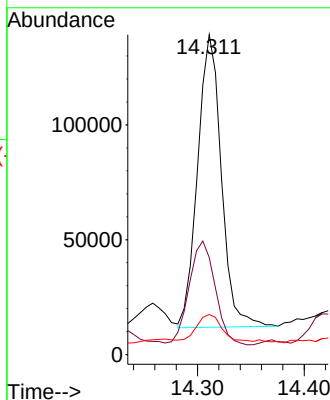
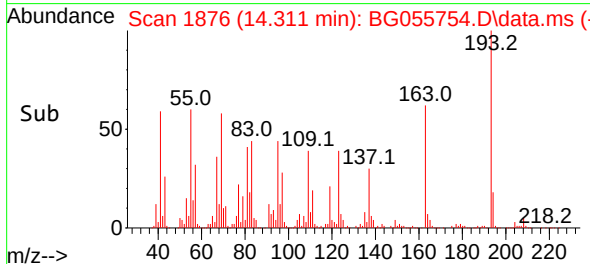
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



Tgt Ion:163 Resp: 196629  
Ion Ratio Lower Upper  
163 100  
194 30.3 3.0 4.4#  
164 12.5 8.6 12.8#

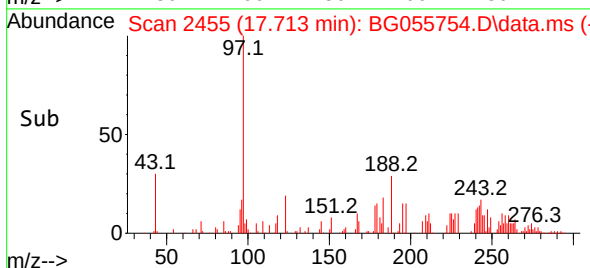
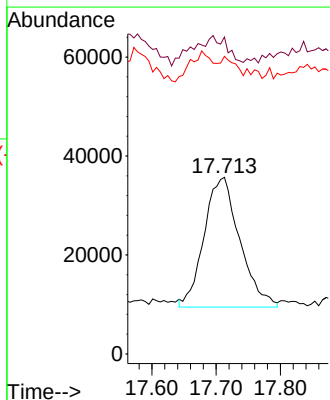
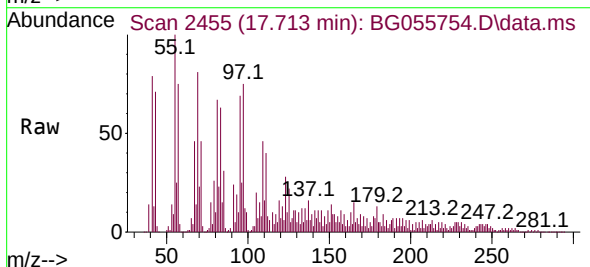
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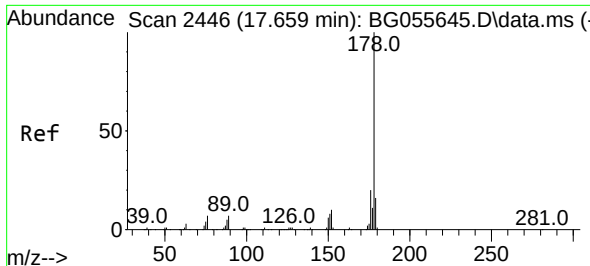


#64  
Phenanthrene-d10  
Concen: 20.000 ng m  
RT: 17.713 min Scan# 2455  
Delta R.T. 0.107 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

Tgt Ion:188 Resp: 101119  
Ion Ratio Lower Upper  
188 100  
94 179.4 5.4 8.2#  
80 168.5 6.6 10.0#

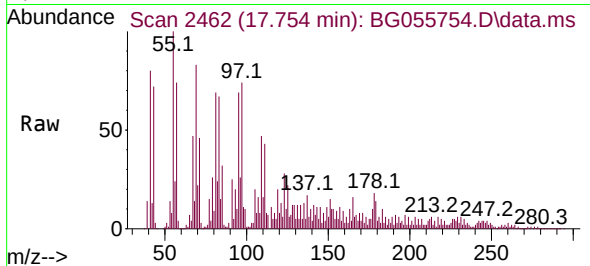






#71  
Phenanthrene  
Concen: 51.601 ng m  
RT: 17.754 min Scan# 2446  
Delta R.T. 0.101 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

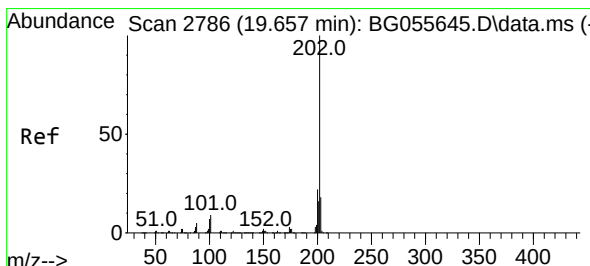
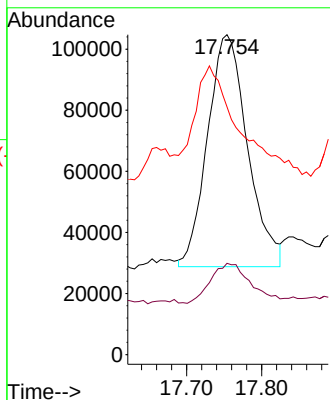
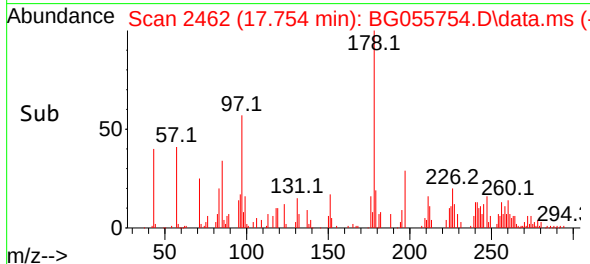
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



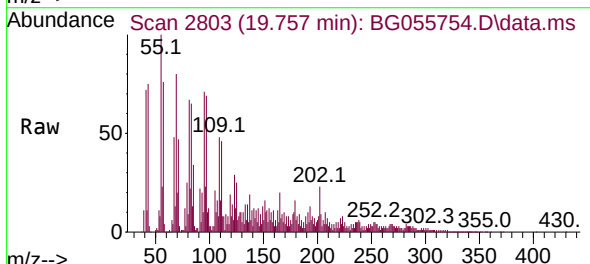
Tgt Ion:178 Resp: 281572  
Ion Ratio Lower Upper  
178 100  
176 28.5 16.0 24.0  
179 77.4 12.7 19.1

Manual Integrations  
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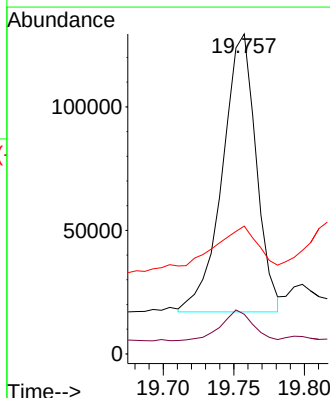
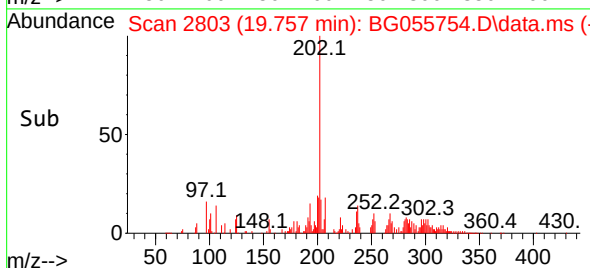
Reviewed By :Christian Giraldo 11/23/2022  
Supervised By :Jagrut Upadhyay 11/23/2022

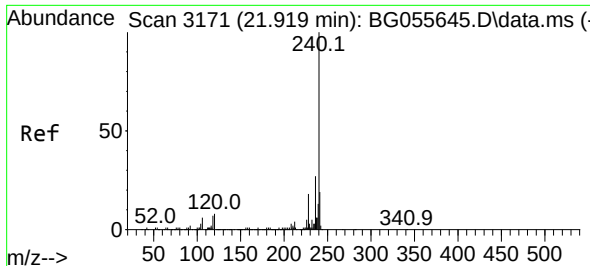


#75  
Fluoranthene  
Concen: 28.276 ng m  
RT: 19.757 min Scan# 2803  
Delta R.T. 0.113 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48



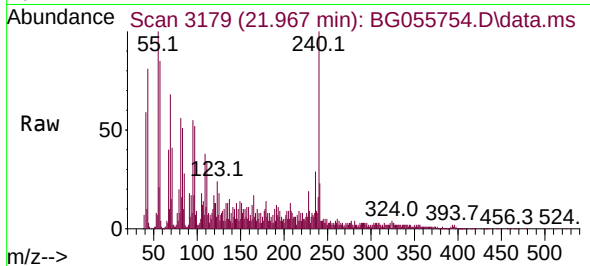
Tgt Ion:202 Resp: 187713  
Ion Ratio Lower Upper  
202 100  
101 12.4 0.0 28.8  
203 40.0 0.0 38.1





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.967 min Scan# 3171  
Delta R.T. 0.060 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

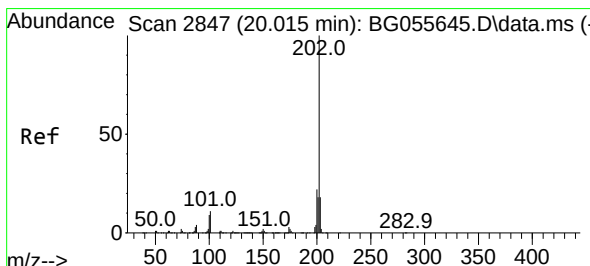
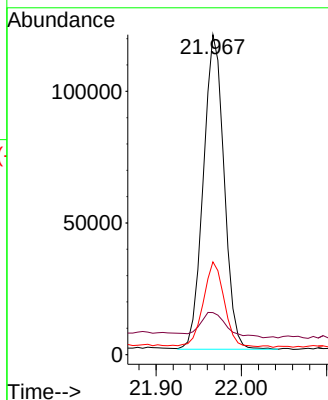
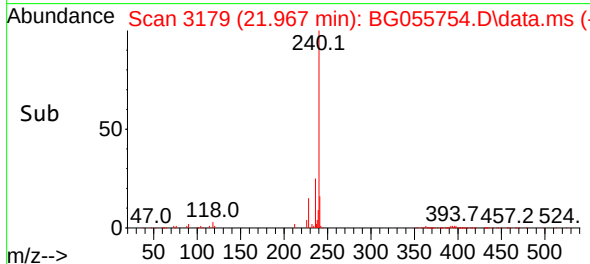
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



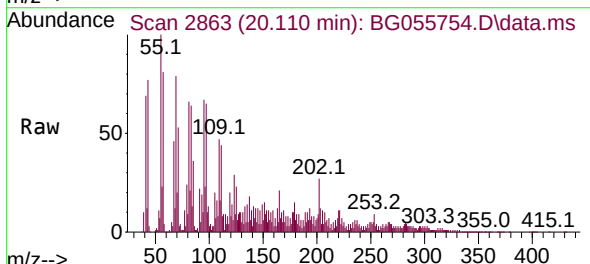
Tgt Ion:240 Resp: 201885  
Ion Ratio Lower Upper  
240 100  
120 13.1 6.3 9.5  
236 29.0 21.9 32.9

Manual Integrations  
APPROVED

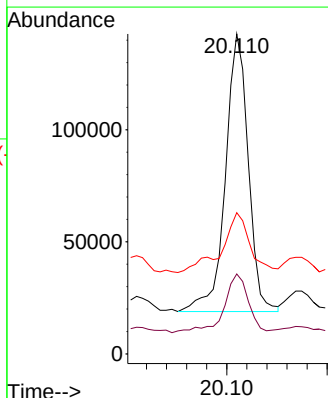
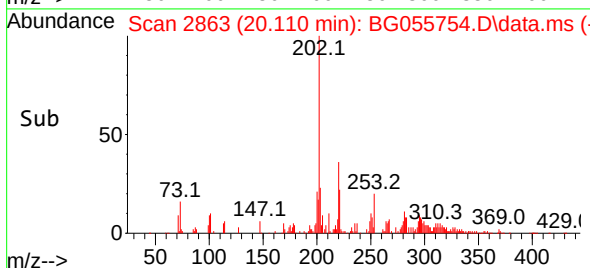
Reviewed By :Christian Giraldo 11/23/2022  
Supervised By :Jagrut Upadhyay 11/23/2022

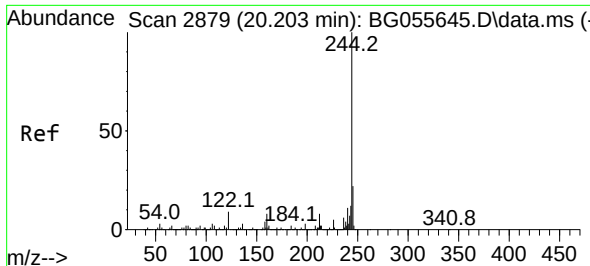


#78  
Pyrene  
Concen: 14.332 ng  
RT: 20.110 min Scan# 2863  
Delta R.T. 0.101 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48



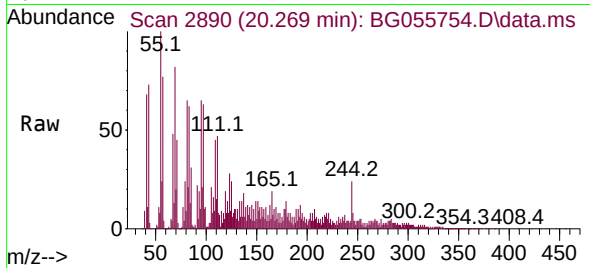
Tgt Ion:202 Resp: 195854  
Ion Ratio Lower Upper  
202 100  
200 25.0 17.8 26.6  
203 44.1 14.4 21.6





#79  
 Terphenyl-d14  
 Concen: 16.686 ng  
 RT: 20.269 min Scan# 2879  
 Delta R.T. 0.078 min  
 Lab File: BG055754.D  
 Acq: 23 Nov 2022 00:48

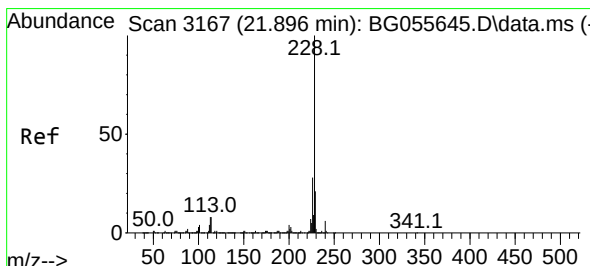
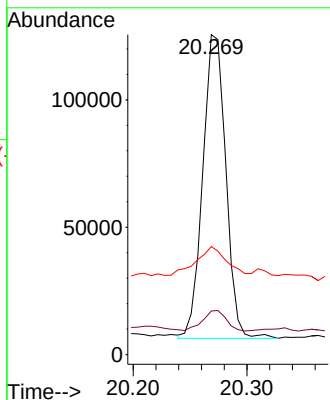
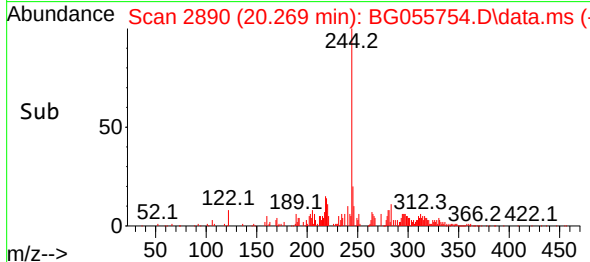
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ETGI-339



Tgt Ion:244 Resp: 168425  
 Ion Ratio Lower Upper  
 244 100  
 212 13.6 6.3 9.5  
 122 33.8 6.9 10.3

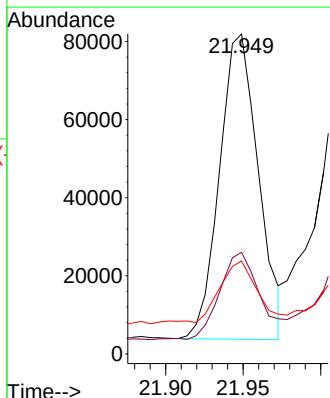
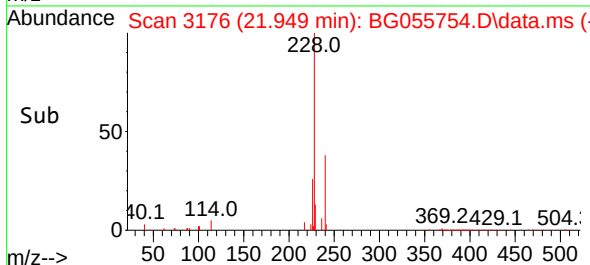
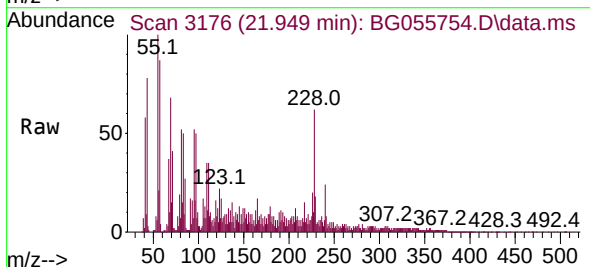
Manual Integrations  
 APPROVED

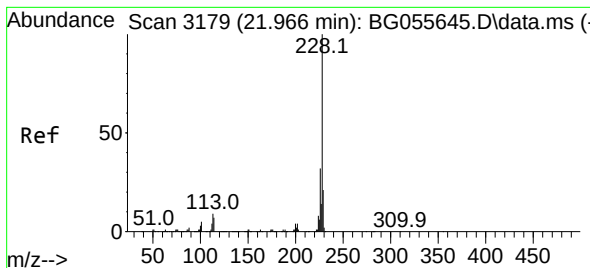
Reviewed By :Christian Giraldo 11/23/2022  
 Supervised By :Jagrut Upadhyay 11/23/2022



#81  
 Benzo(a)anthracene  
 Concen: 9.815 ng  
 RT: 21.949 min Scan# 3176  
 Delta R.T. 0.066 min  
 Lab File: BG055754.D  
 Acq: 23 Nov 2022 00:48

Tgt Ion:228 Resp: 136472  
 Ion Ratio Lower Upper  
 228 100  
 226 31.7 22.7 34.1  
 229 29.0 16.5 24.7





#83

Chrysene

Concen: 12.100 ng m

RT: 22.014 min Scan# 3187

Delta R.T. 0.060 min

Lab File: BG055754.D

Acq: 23 Nov 2022 00:48

Instrument :

BNA\_G

ClientSampleId :

ETGI-339

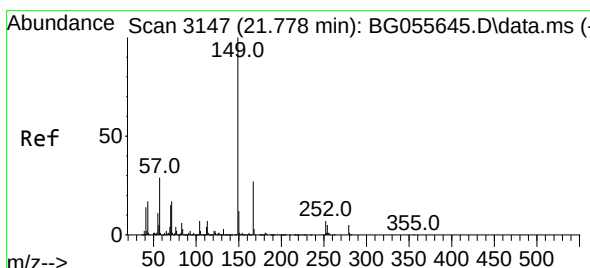
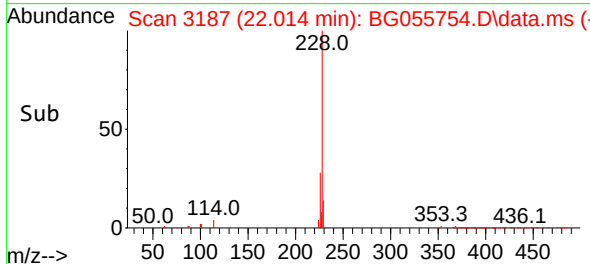
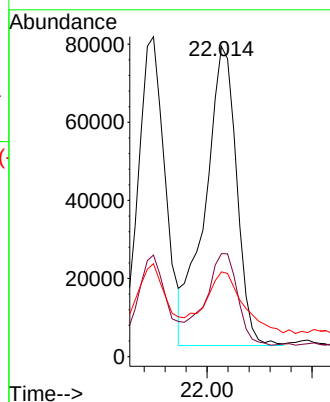
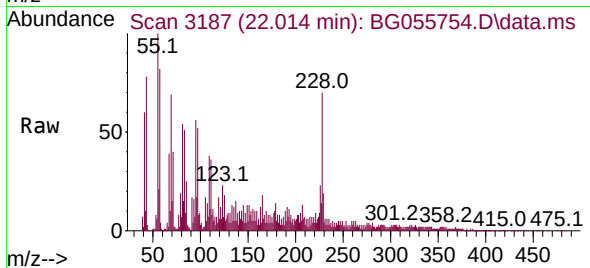
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 160175 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 33.2  | 25.4  | 38.2   |
| 229       | 27.3  | 17.1  | 25.7   |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/23/2022

Supervised By :Jagrut Upadhyay 11/23/2022



#84

Bis(2-ethylhexyl)phthalate

Concen: 10.949 ng

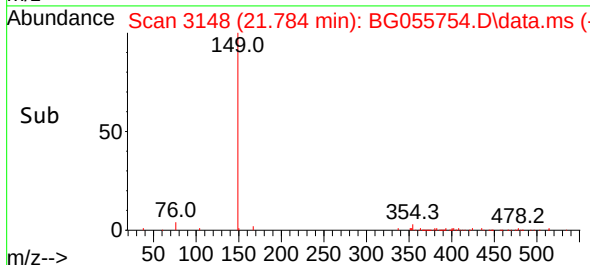
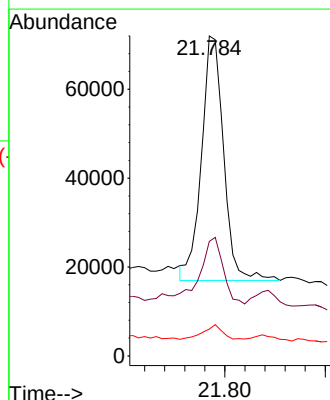
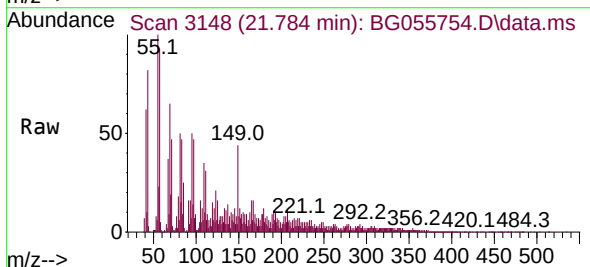
RT: 21.784 min Scan# 3148

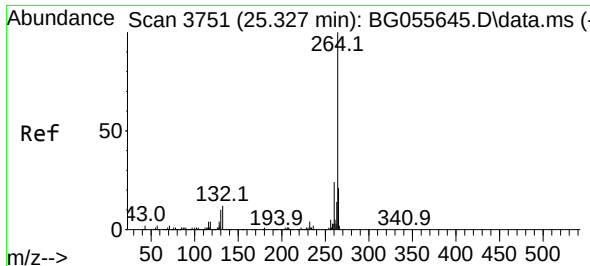
Delta R.T. 0.031 min

Lab File: BG055754.D

Acq: 23 Nov 2022 00:48

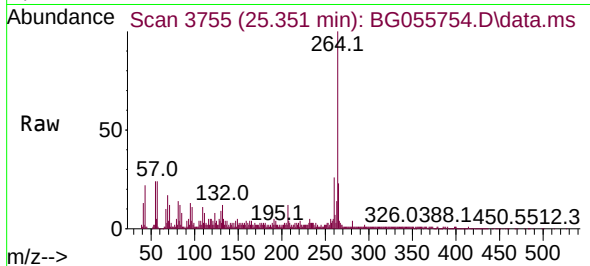
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 84178 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 35.8  | 22.0  | 33.0# |
| 279       | 8.4   | 3.7   | 5.5#  |





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.351 min Scan# 31  
Delta R.T. 0.049 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

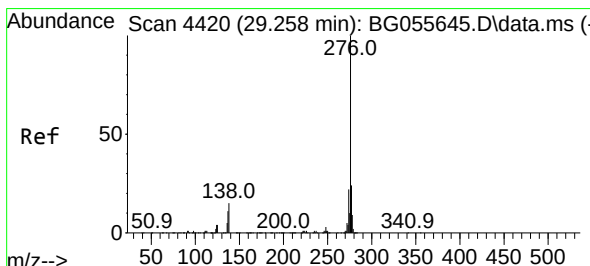
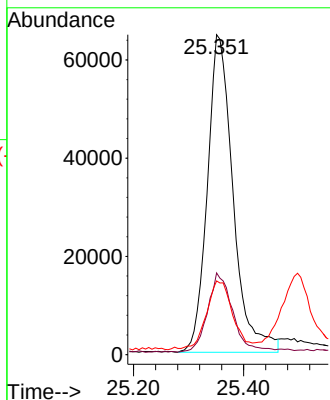
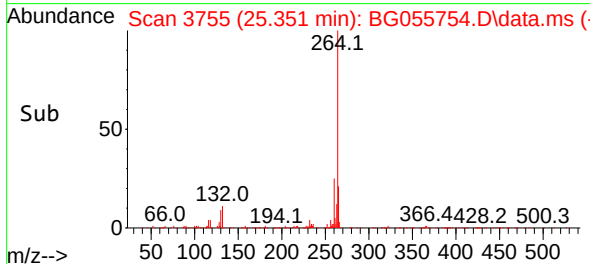
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



Tgt Ion:264 Resp: 210145  
Ion Ratio Lower Upper  
264 100  
260 25.5 19.5 29.3  
265 23.0 17.1 25.7

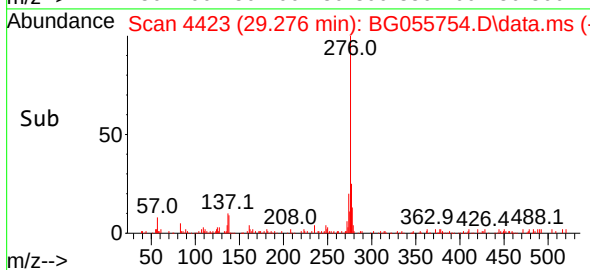
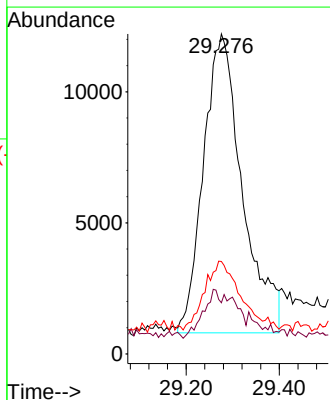
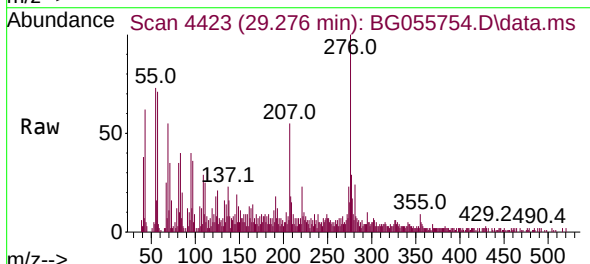
Manual Integrations  
APPROVED

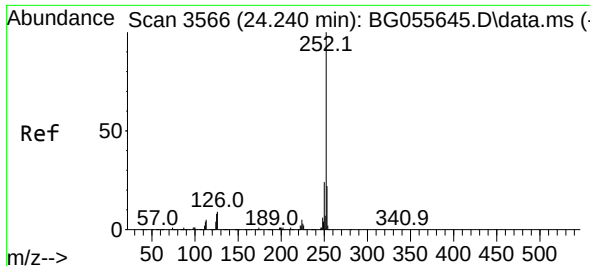
Reviewed By :Christian Giraldo 11/23/2022  
Supervised By :Jagrut Upadhyay 11/23/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.838 ng m  
RT: 29.276 min Scan# 4423  
Delta R.T. 0.043 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

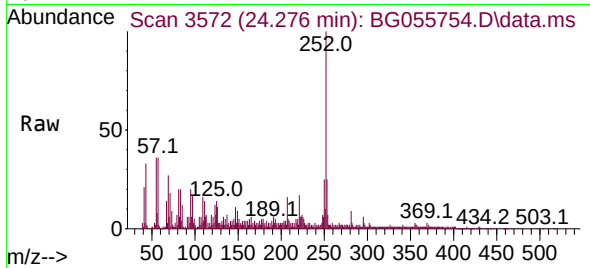
Tgt Ion:276 Resp: 66067  
Ion Ratio Lower Upper  
276 100  
138 7.3 10.4 15.6#  
277 20.5 20.2 30.4





#88  
Benzo(b)fluoranthene  
Concen: 15.595 ng  
RT: 24.276 min Scan# 3572  
Delta R.T. 0.054 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48

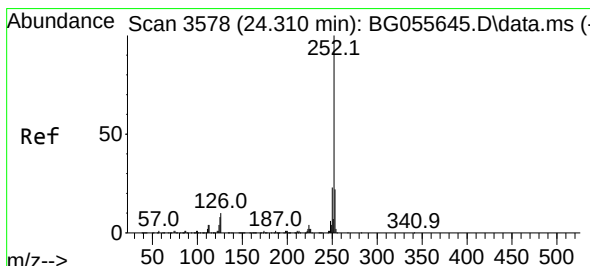
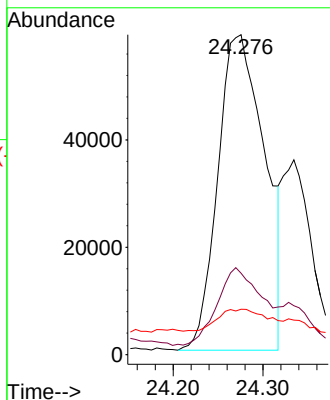
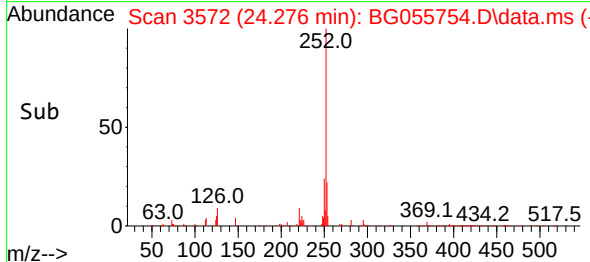
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-339



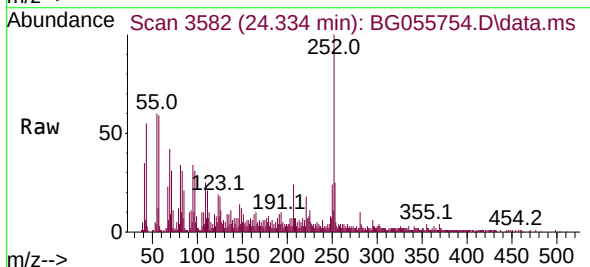
Tgt Ion:252 Resp: 213426  
Ion Ratio Lower Upper  
252 100  
253 25.4 18.0 27.0  
125 14.2 6.2 9.2

Manual Integrations  
APPROVED

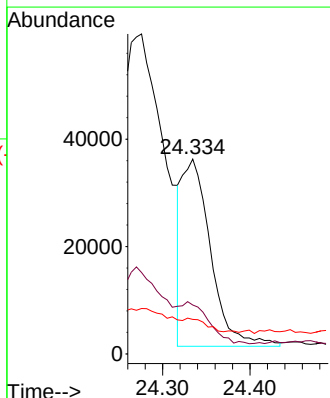
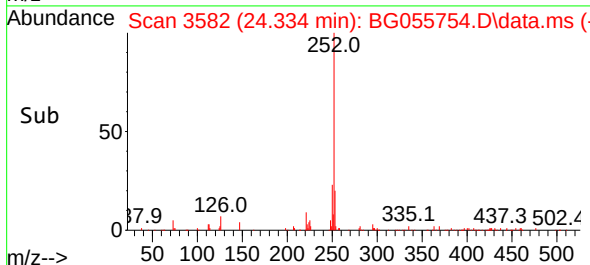
Reviewed By :Christian Giraldo 11/23/2022  
Supervised By :Jagrut Upadhyay 11/23/2022

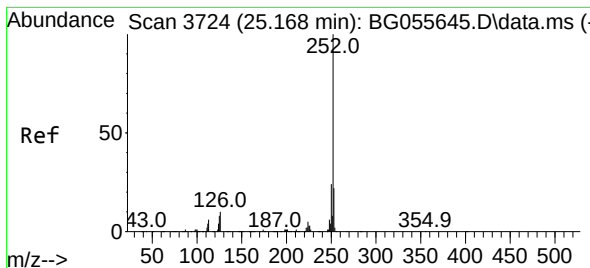


#89  
Benzo(k)fluoranthene  
Concen: 5.883 ng m  
RT: 24.334 min Scan# 3582  
Delta R.T. 0.043 min  
Lab File: BG055754.D  
Acq: 23 Nov 2022 00:48



Tgt Ion:252 Resp: 80257  
Ion Ratio Lower Upper  
252 100  
253 25.1 17.8 26.6  
125 17.7 6.1 9.1





#90

Benzo(a)pyrene

Concen: 11.037 ng

RT: 25.192 min Scan# 31

Delta R.T. 0.043 min

Lab File: BG055754.D

Acq: 23 Nov 2022 00:48

Instrument :

BNA\_G

ClientSampleId :

ETGI-339

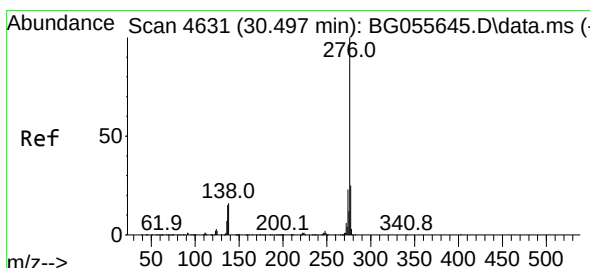
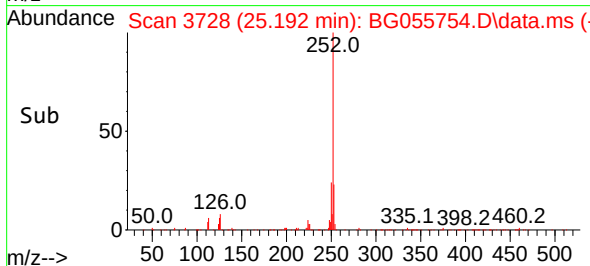
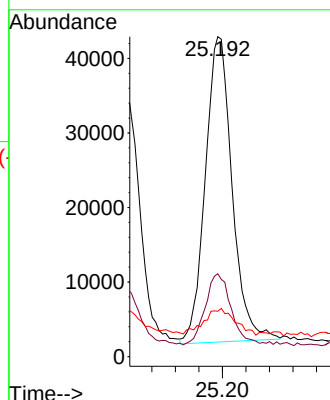
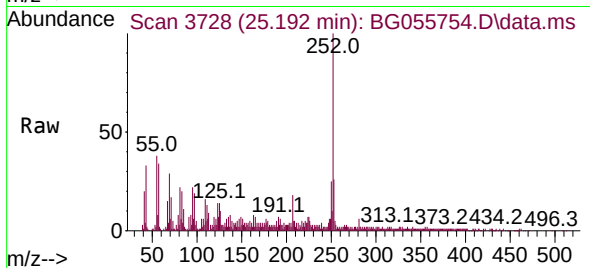
Tgt Ion:252 Resp: 129618  
 Ion Ratio Lower Upper  
 252 100  
 253 25.9 17.8 26.6  
 125 14.2 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/23/2022

Supervised By :Jagrut Upadhyay 11/23/2022



#92

Benzo(g,h,i)perylene

Concen: 4.127 ng m

RT: 30.515 min Scan# 4634

Delta R.T. 0.054 min

Lab File: BG055754.D

Acq: 23 Nov 2022 00:48

Tgt Ion:276 Resp: 58515  
 Ion Ratio Lower Upper  
 276 100  
 277 29.9 19.8 29.6#  
 138 19.9 13.1 19.7#

