

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG092322\  
 Data File : BG055017.D  
 Acq On : 23 Sep 2022 18:08  
 Operator : CG/JU  
 Sample : N4751-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PE-2

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/26/2022  
 Supervised By : Jagrut Upadhyay 09/26/2022

Quant Time: Sep 24 02:28:34 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG091922.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 19 17:41:40 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.061  | 152  | 36605    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.881 | 136  | 146524   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.700 | 164  | 101958   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.450 | 188  | 239734   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.727 | 240  | 246380   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 25.029 | 264  | 258097   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.599  | 112  | 196558   | 105.068 | ng    | 0.00     |
| 7) Phenol-d6                | 7.220  | 99   | 264054   | 105.304 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.236  | 82   | 156263   | 61.814  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.192 | 330  | 113511   | 95.033  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.325 | 172  | 438173   | 67.729  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.052 | 244  | 782271   | 66.416  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.491 | 178  | 95888    | 7.854   | ng    | 98       |
| 75) Fluoranthene            | 19.500 | 202  | 177452   | 11.475  | ng    | 97       |
| 78) Pyrene                  | 19.864 | 202  | 150453   | 9.289   | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.703 | 228  | 84146    | 5.310   | ng    | 98       |
| 83) Chrysene                | 21.774 | 228  | 73946m   | 4.875   | ng    |          |
| 88) Benzo(b)fluoranthene    | 23.977 | 252  | 91909    | 6.037   | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 24.036 | 252  | 37564m   | 2.444   | ng    |          |
| 90) Benzo(a)pyrene          | 24.876 | 252  | 68014    | 5.189   | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 30.047 | 276  | 45485    | 2.856   | ng    | # 94     |
| -----                       |        |      |          |         |       |          |

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

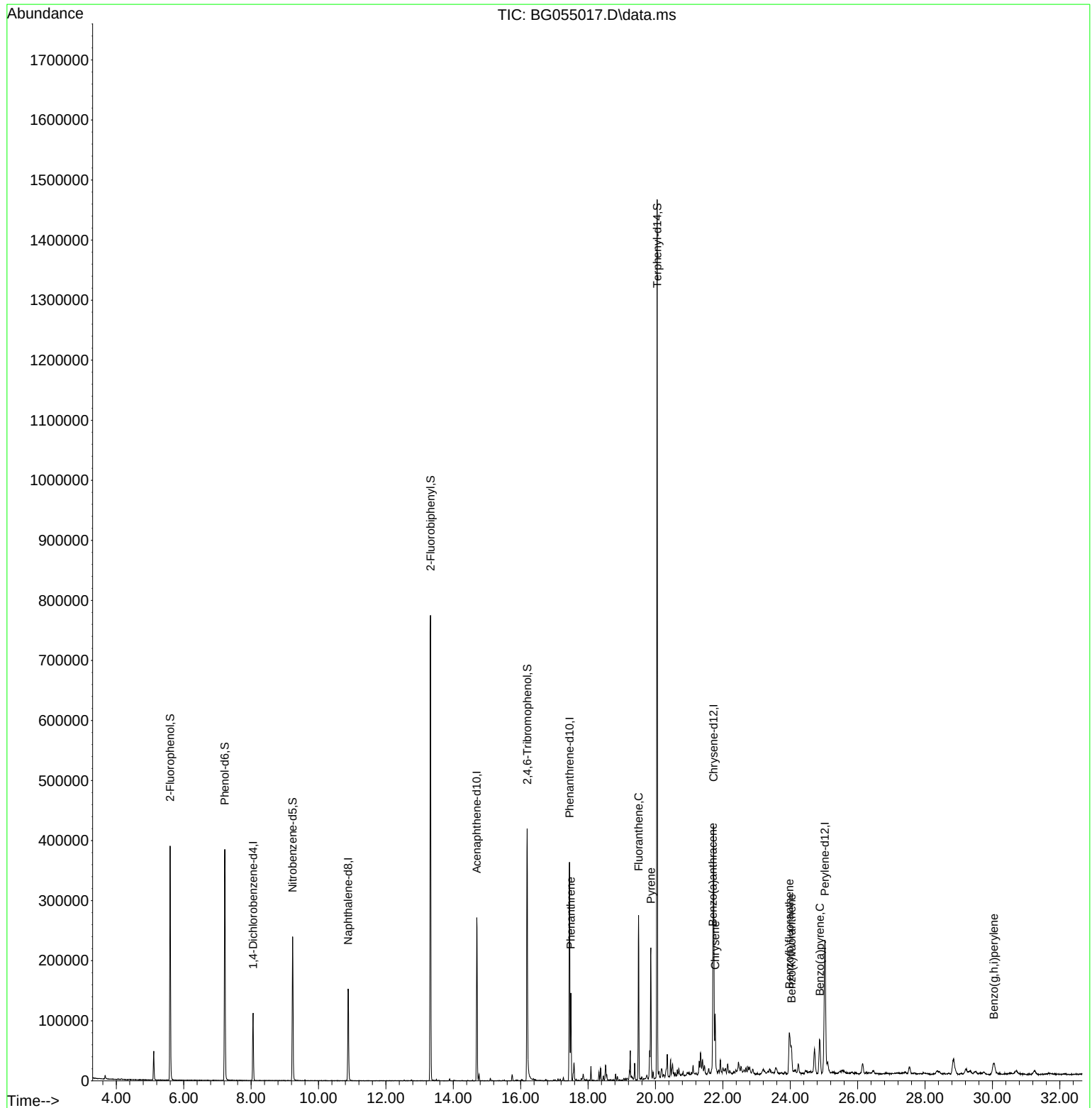
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG092322\  
Data File : BG055017.D  
Acq On : 23 Sep 2022 18:08  
Operator : CG/JU  
Sample : N4751-02  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

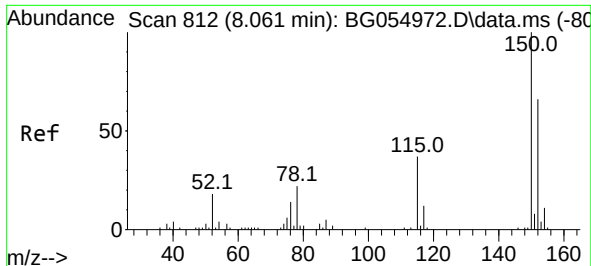
Instrument :  
BNA\_G  
ClientSampleId :  
PE-2

Quant Time: Sep 24 02:28:34 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG091922.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 19 17:41:40 2022  
Response via : Initial Calibration

Manual Integrations  
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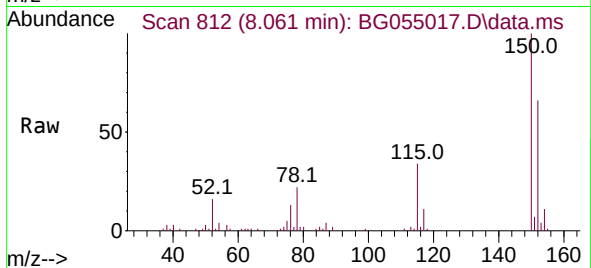
Reviewed By : Christian Giraldo 09/26/2022  
Supervised By : Jagrut Upadhyay 09/26/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.061 min Scan# 812  
Delta R.T. -0.000 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

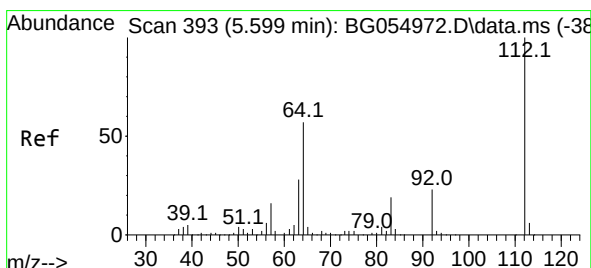
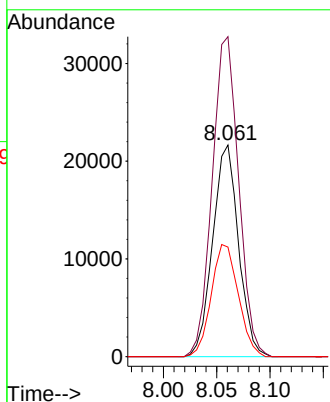
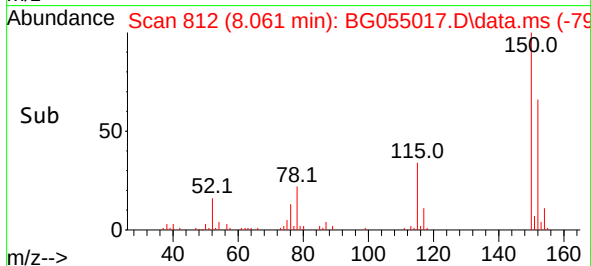
Instrument :  
BNA\_G  
ClientSampleId :  
PE-2



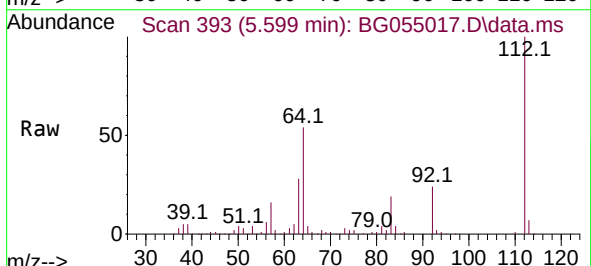
Tgt Ion:152 Resp: 36605  
Ion Ratio Lower Upper  
152 100  
150 151.2 125.2 187.8  
115 51.8 47.9 71.9

Manual Integrations  
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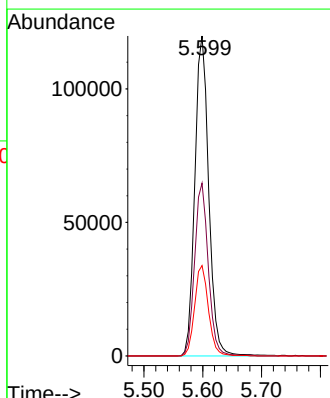
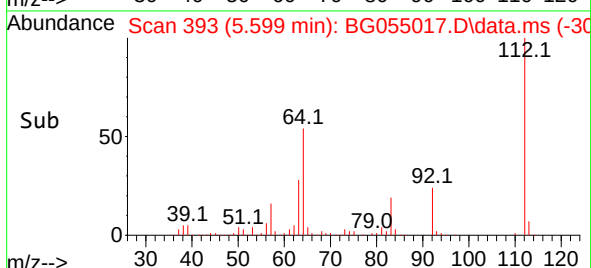
Reviewed By :Christian Giraldo 09/26/2022  
Supervised By :Jagrut Upadhyay 09/26/2022

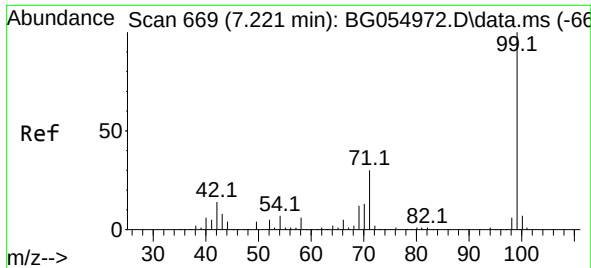


#5  
2-Fluorophenol  
Concen: 105.068 ng  
RT: 5.599 min Scan# 393  
Delta R.T. -0.000 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08



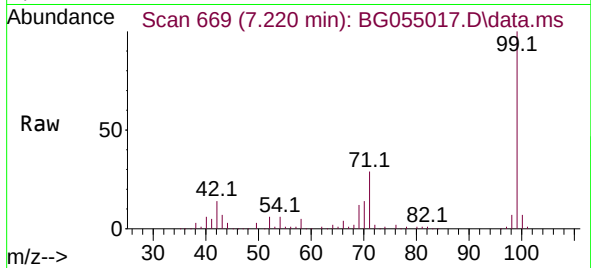
Tgt Ion:112 Resp: 196558  
Ion Ratio Lower Upper  
112 100  
64 54.0 49.3 73.9  
63 28.2 26.3 39.5





#7  
Phenol-d6  
Concen: 105.304 ng  
RT: 7.220 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

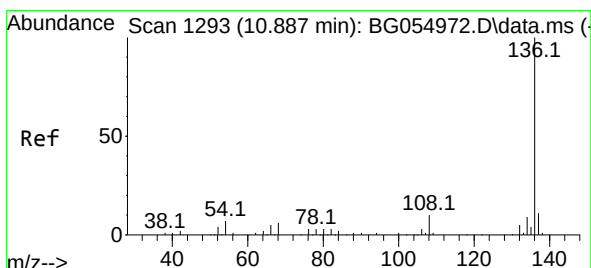
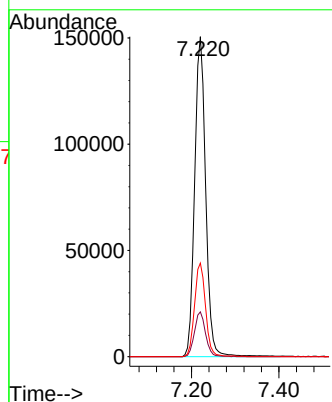
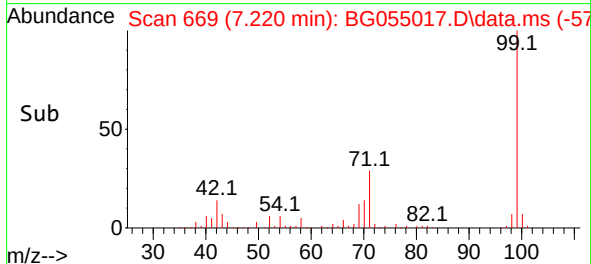
Instrument :  
BNA\_G  
ClientSampleId :  
PE-2



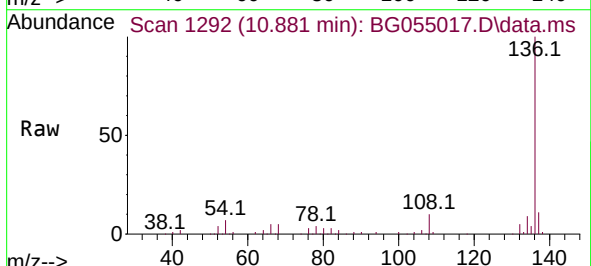
Tgt Ion: 99 Resp: 264054  
Ion Ratio Lower Upper  
99 100  
42 14.0 14.6 22.0#  
71 29.2 24.6 37.0

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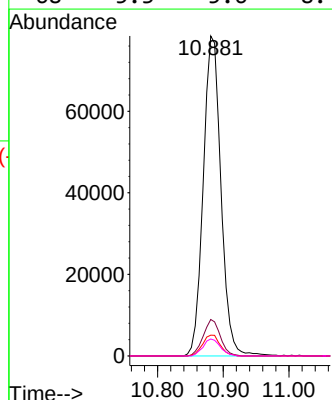
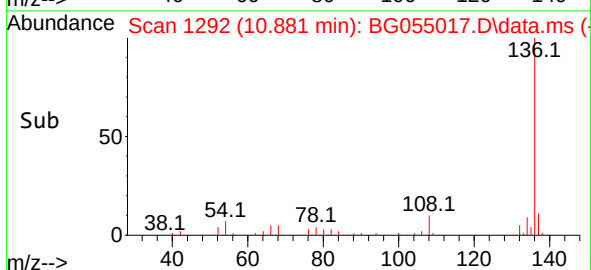
Reviewed By :Christian Giraldo 09/26/2022  
Supervised By :Jagrut Upadhyay 09/26/2022

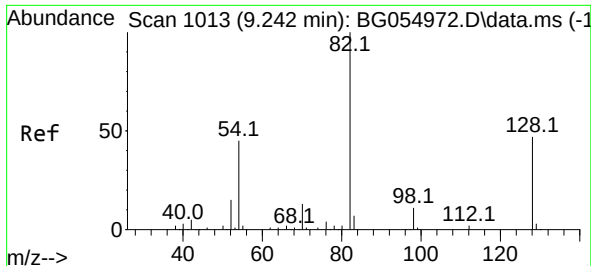


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.881 min Scan# 1292  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08



Tgt Ion:136 Resp: 146524  
Ion Ratio Lower Upper  
136 100  
137 11.4 9.2 13.8  
54 6.5 7.7 11.5#  
68 5.3 5.6 8.4#





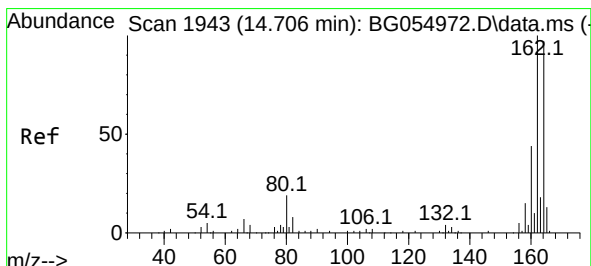
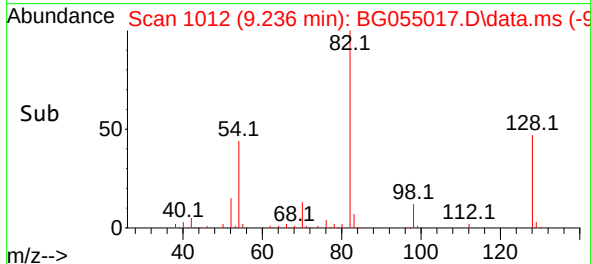
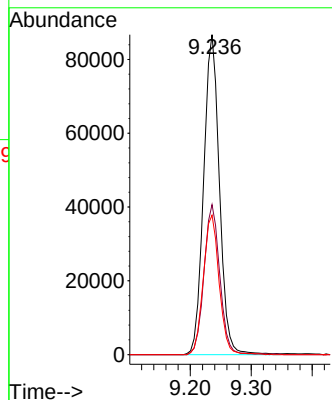
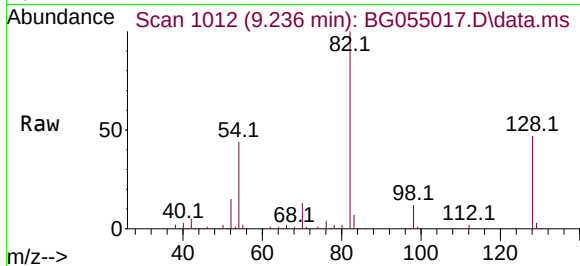
#23  
Nitrobenzene-d5  
Concen: 61.814 ng  
RT: 9.236 min Scan# 1013  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

Instrument :  
BNA\_G  
ClientSampleId :  
PE-2

Tgt Ion: 82 Resp: 156263  
Ion Ratio Lower Upper  
82 100  
128 46.9 32.2 48.2  
54 43.6 41.4 62.0

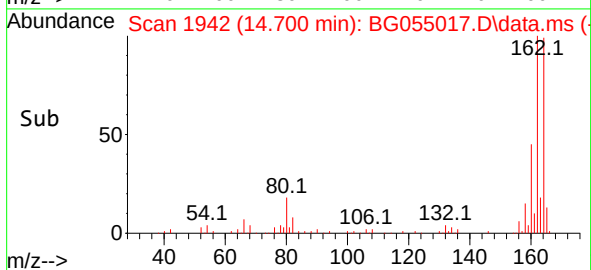
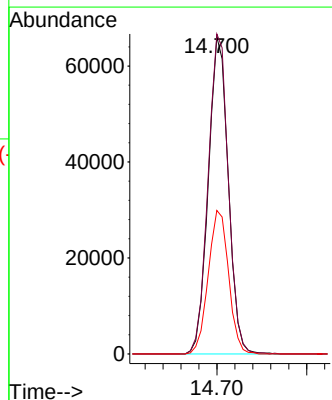
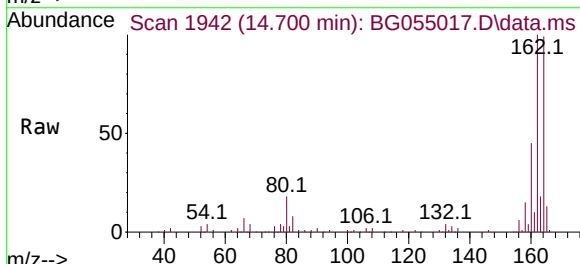
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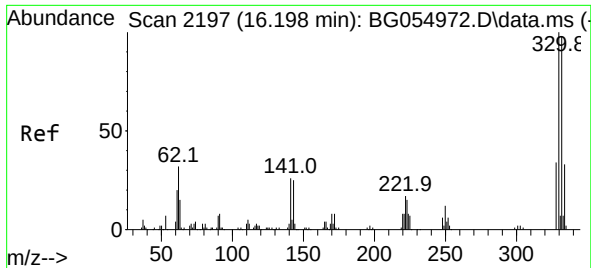
Reviewed By :Christian Giraldo 09/26/2022  
Supervised By :Jagrut Upadhyay 09/26/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.700 min Scan# 1942  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

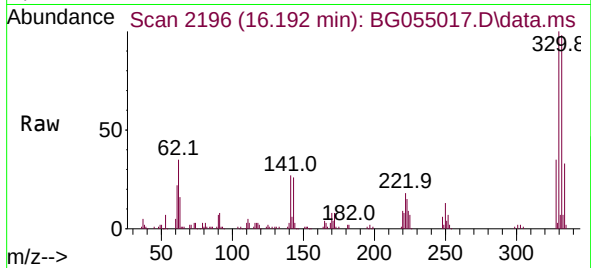
Tgt Ion:164 Resp: 101958  
Ion Ratio Lower Upper  
164 100  
162 100.9 83.0 124.4  
160 45.3 38.0 57.0





#42  
2,4,6-Tribromophenol  
Concen: 95.033 ng  
RT: 16.192 min Scan# 2197  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

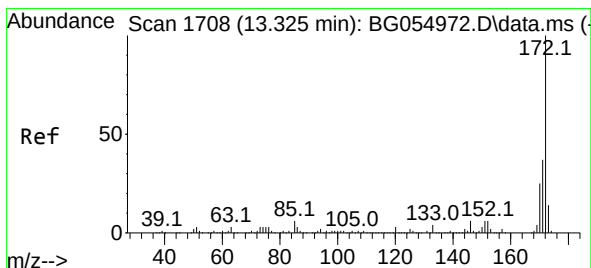
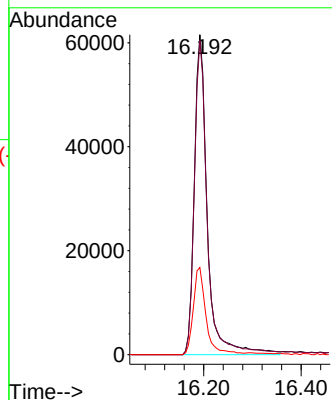
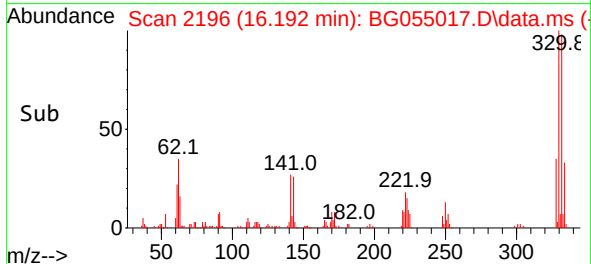
Instrument :  
BNA\_G  
ClientSampleId :  
PE-2



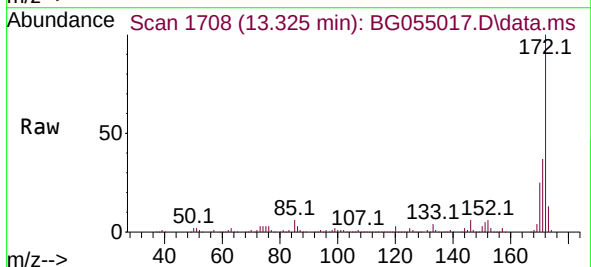
Tgt Ion:330 Resp: 11351  
Ion Ratio Lower Upper  
330 100  
332 98.0 79.8 119.6  
141 26.5 26.8 40.2

Manual Integrations  
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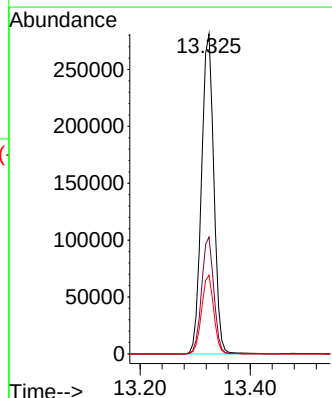
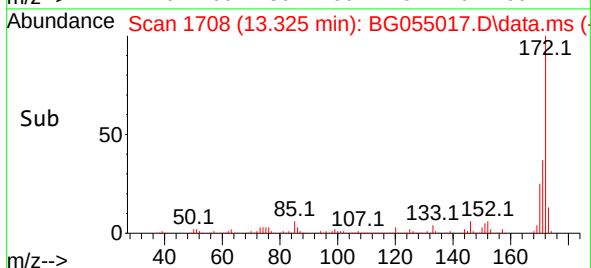
Reviewed By :Christian Giraldo 09/26/2022  
Supervised By :Jagrut Upadhyay 09/26/2022

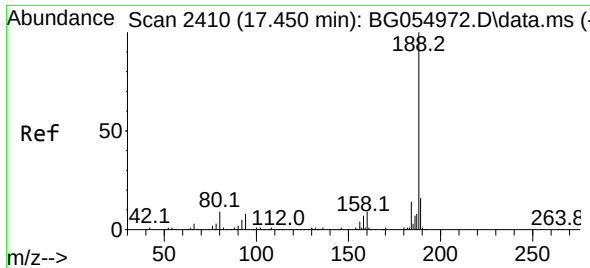


#45  
2-Fluorobiphenyl  
Concen: 67.729 ng  
RT: 13.325 min Scan# 1708  
Delta R.T. -0.000 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08



Tgt Ion:172 Resp: 438173  
Ion Ratio Lower Upper  
172 100  
171 36.5 31.2 46.8  
170 24.6 20.6 30.8





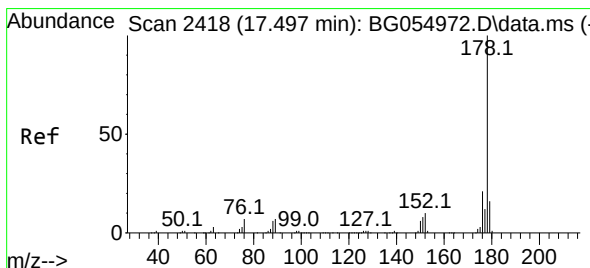
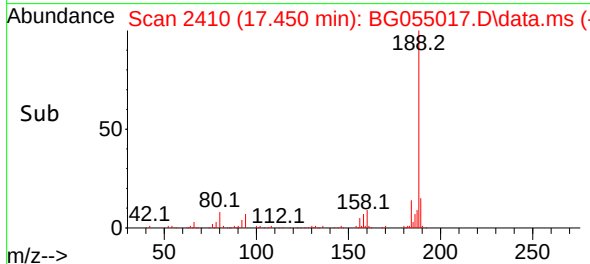
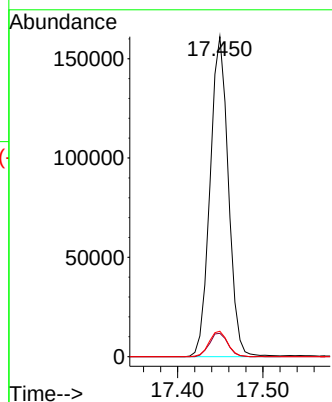
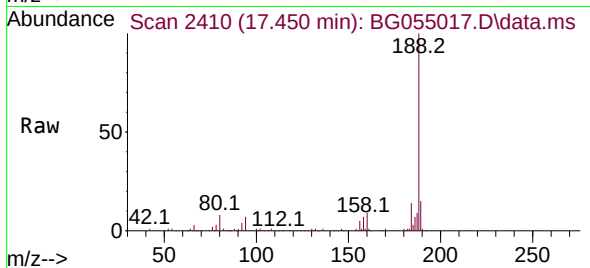
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.450 min Scan# 2410  
Delta R.T. -0.000 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

Instrument :  
BNA\_G  
ClientSampleId :  
PE-2

Tgt Ion:188 Resp: 239734  
Ion Ratio Lower Upper  
188 100  
94 7.3 7.0 10.4  
80 7.9 7.9 11.9

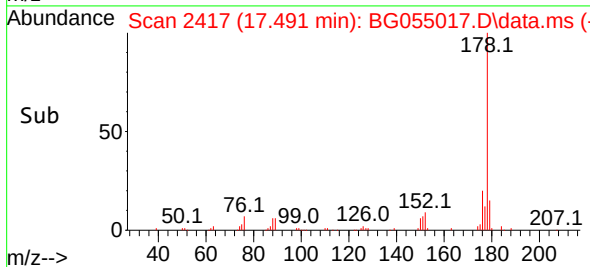
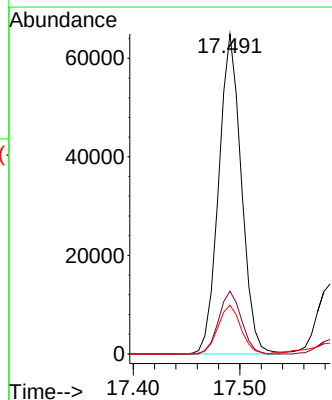
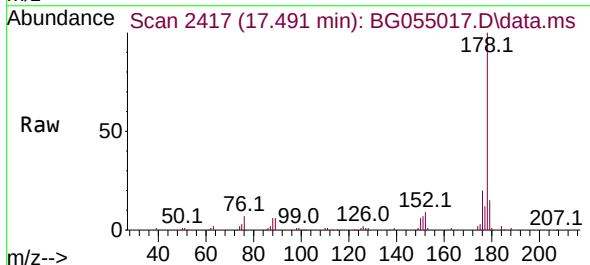
Manual Integrations  
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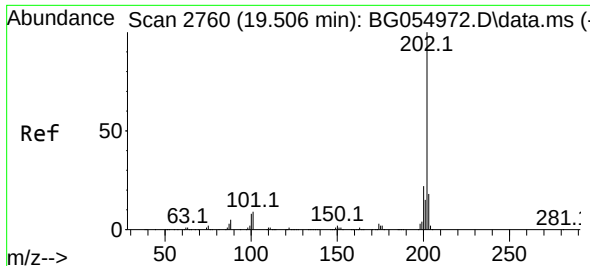
Reviewed By :Christian Giraldo 09/26/2022  
Supervised By :Jagrut Upadhyay 09/26/2022



#71  
Phenanthrene  
Concen: 7.854 ng  
RT: 17.491 min Scan# 2417  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

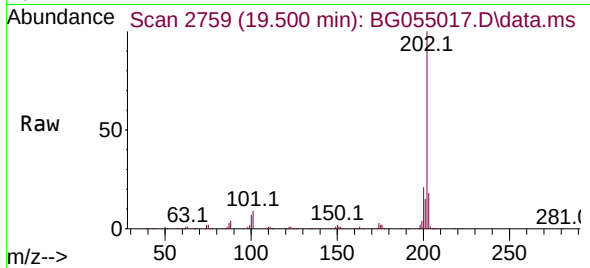
Tgt Ion:178 Resp: 95888  
Ion Ratio Lower Upper  
178 100  
176 19.6 16.6 25.0  
179 15.2 12.8 19.2





#75  
Fluoranthene  
Concen: 11.475 ng  
RT: 19.500 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

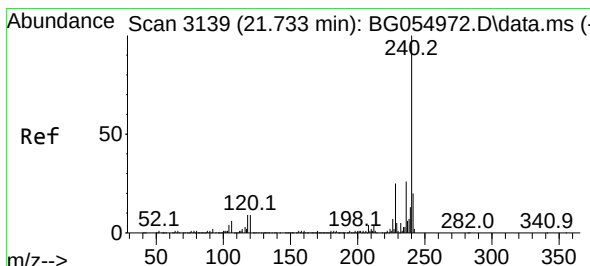
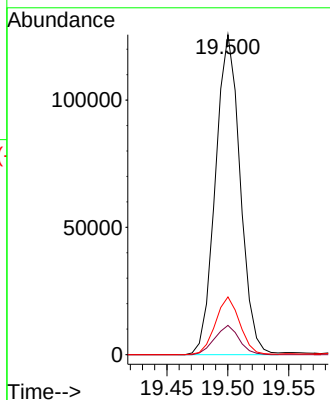
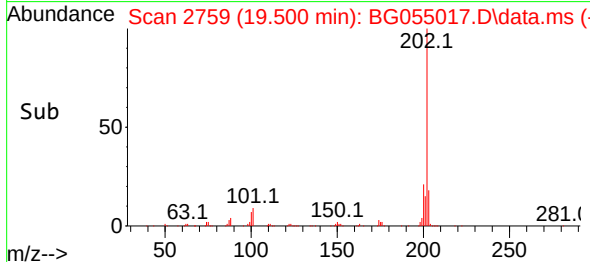
Instrument :  
BNA\_G  
ClientSampleId :  
PE-2



Tgt Ion:202 Resp: 177452  
Ion Ratio Lower Upper  
202 100  
101 9.1 0.0 31.4  
203 18.0 0.0 38.6

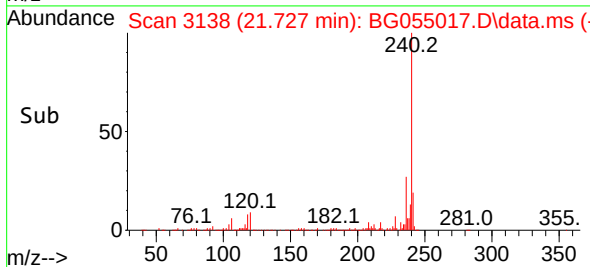
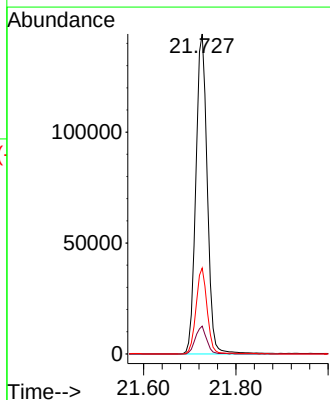
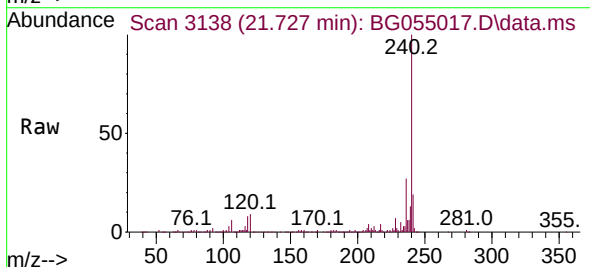
Manual Integrations  
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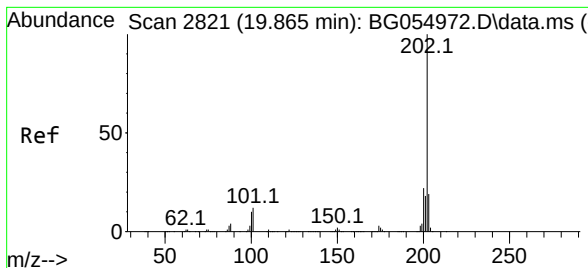


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.727 min Scan# 3138  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

Tgt Ion:240 Resp: 246380  
Ion Ratio Lower Upper  
240 100  
120 8.7 8.2 12.4  
236 26.8 21.2 31.8







#78

Pyrene

Concen: 9.289 ng

RT: 19.864 min Scan# 2821

Delta R.T. -0.000 min

Lab File: BG055017.D

Acq: 23 Sep 2022 18:08

Instrument :

BNA\_G

ClientSampleId :

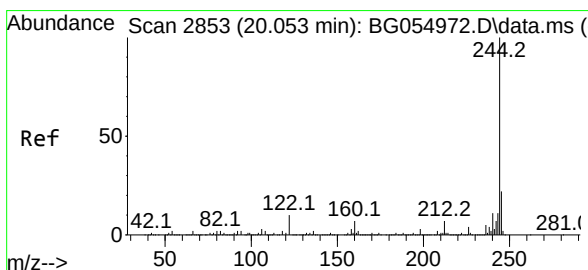
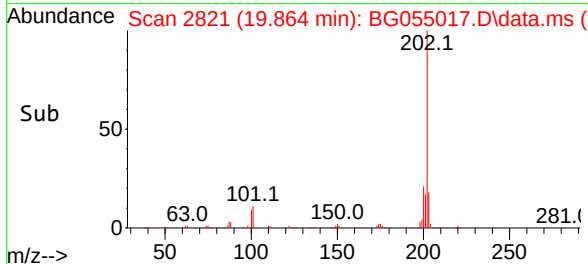
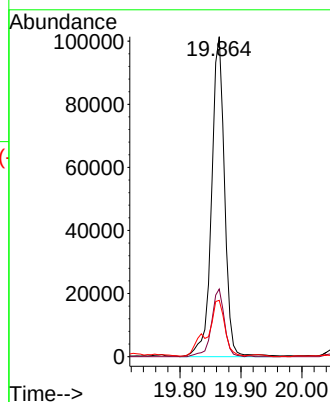
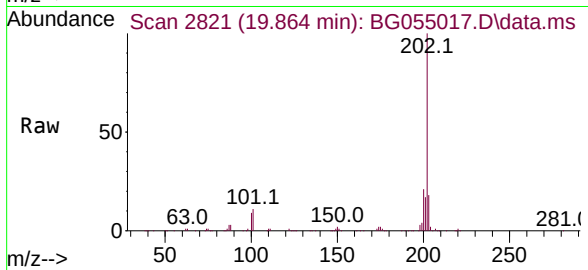
PE-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.8  | 26.6  |
| 203     | 17.6  | 14.6  | 21.8  |

Manual Integrations

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#79

Terphenyl-d14

Concen: 66.416 ng

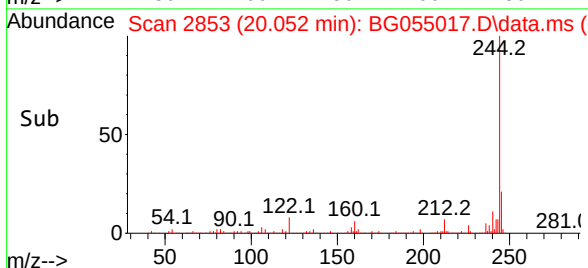
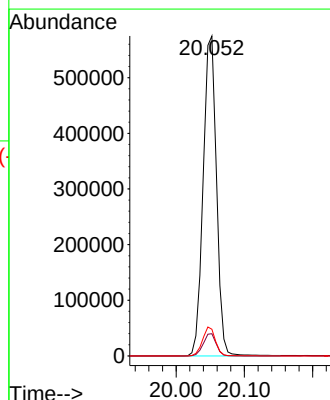
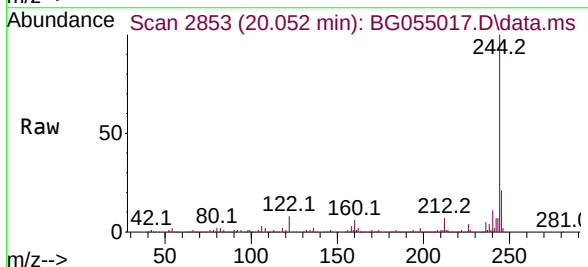
RT: 20.052 min Scan# 2853

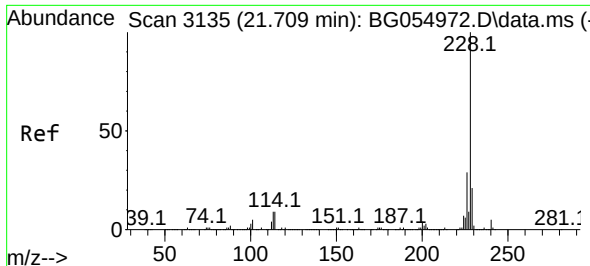
Delta R.T. -0.000 min

Lab File: BG055017.D

Acq: 23 Sep 2022 18:08

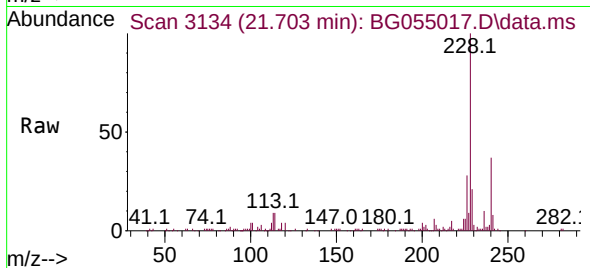
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.2   | 9.2   |
| 122     | 8.3   | 9.0   | 13.6  |





#81  
Benzo(a)anthracene  
Concen: 5.310 ng  
RT: 21.703 min Scan# 3135  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

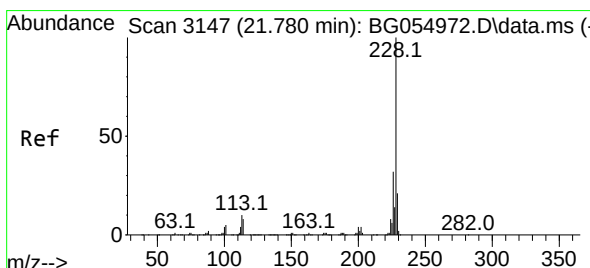
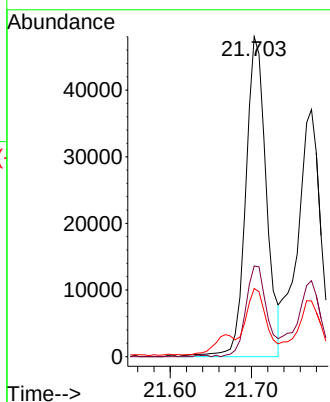
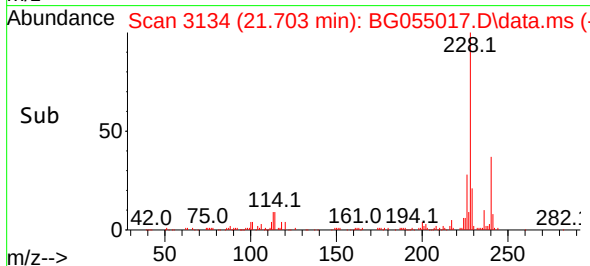
Instrument :  
BNA\_G  
ClientSampleId :  
PE-2



Tgt Ion:228 Resp: 84146  
Ion Ratio Lower Upper  
228 100  
226 28.3 23.4 35.2  
229 21.3 16.5 24.7

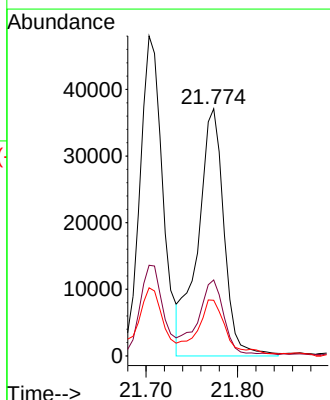
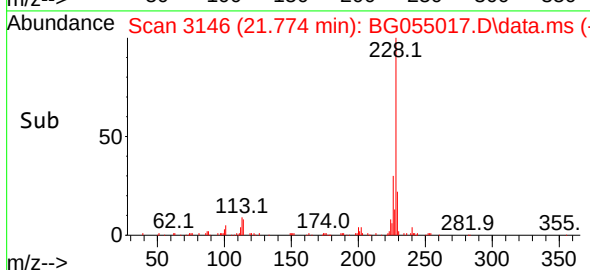
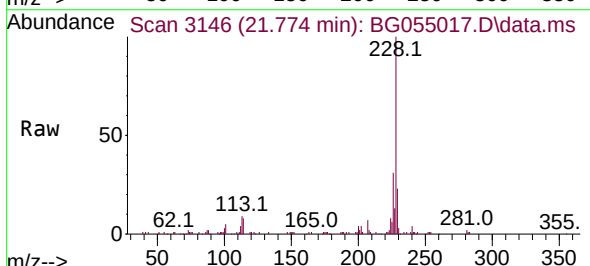
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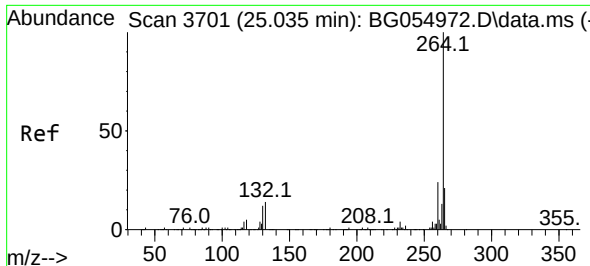
Reviewed By :Christian Giraldo 09/26/2022  
Supervised By :Jagrut Upadhyay 09/26/2022



#83  
Chrysene  
Concen: 4.875 ng m  
RT: 21.774 min Scan# 3146  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

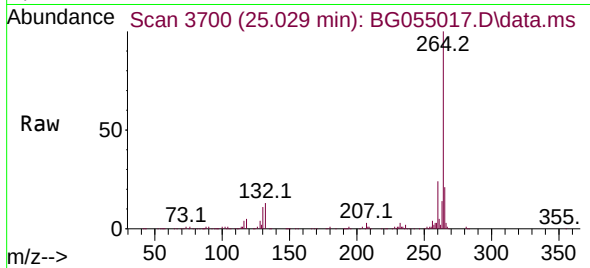
Tgt Ion:228 Resp: 73946  
Ion Ratio Lower Upper  
228 100  
226 30.8 25.5 38.3  
229 22.5 16.8 25.2





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.029 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

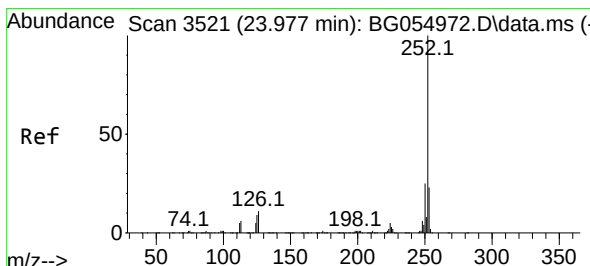
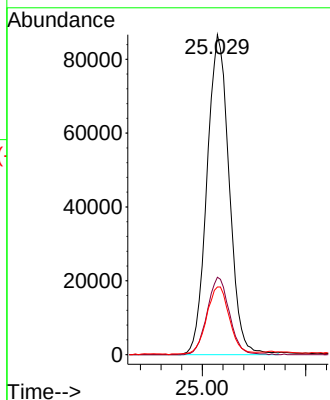
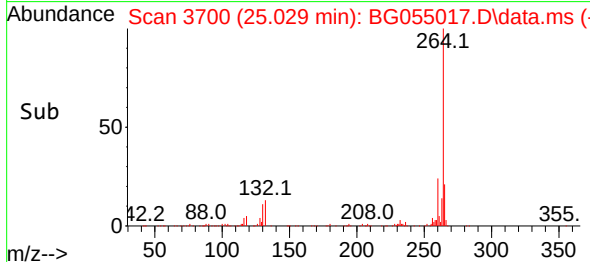
Instrument :  
BNA\_G  
ClientSampleId :  
PE-2



Tgt Ion:264 Resp: 25809  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.9 29.9  
265 21.1 16.9 25.3

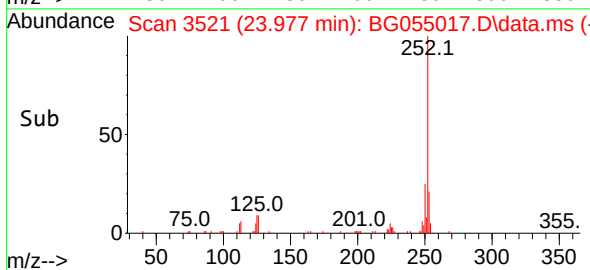
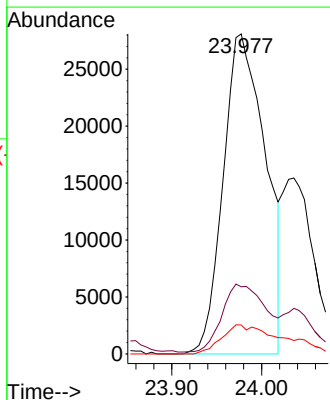
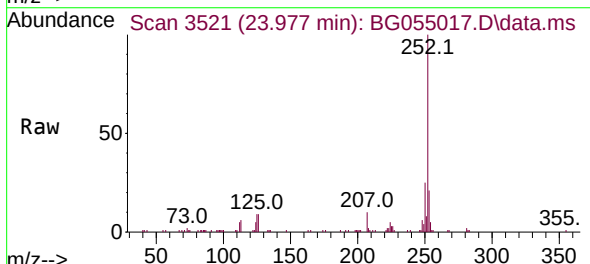
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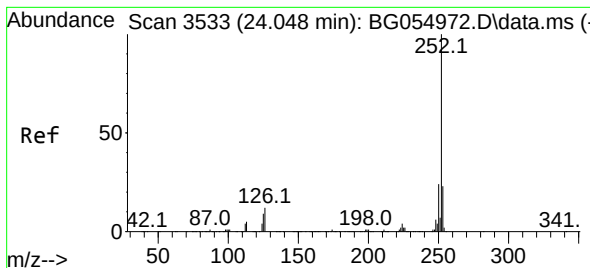
Reviewed By :Christian Giraldo 09/26/2022  
Supervised By :Jagrut Upadhyay 09/26/2022



#88  
Benzo(b)fluoranthene  
Concen: 6.037 ng  
RT: 23.977 min Scan# 3521  
Delta R.T. -0.000 min  
Lab File: BG055017.D  
Acq: 23 Sep 2022 18:08

Tgt Ion:252 Resp: 91909  
Ion Ratio Lower Upper  
252 100  
253 21.0 18.0 27.0  
125 9.0 8.1 12.1





#89

Benzo(k)fluoranthene

Concen: 2.444 ng m

RT: 24.036 min Scan# 3533

Delta R.T. -0.012 min

Lab File: BG055017.D

Acq: 23 Sep 2022 18:08

Instrument :

BNA\_G

ClientSampleId :

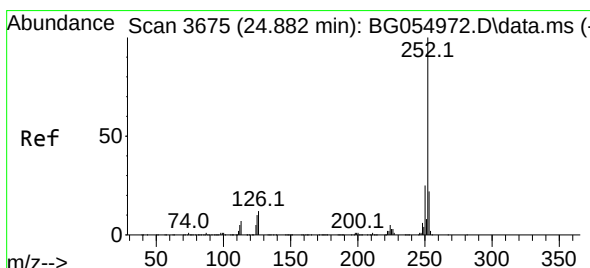
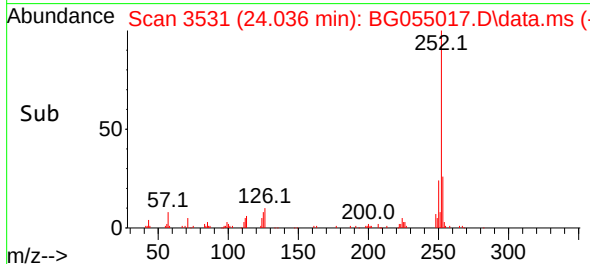
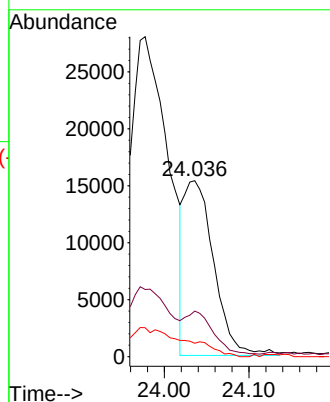
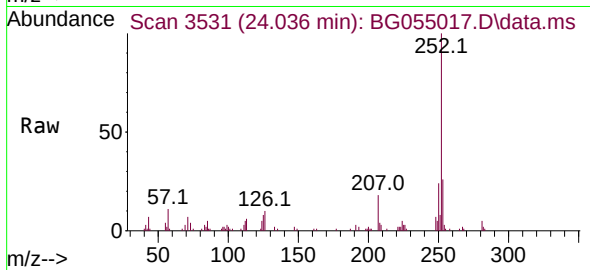
PE-2

Tgt Ion:252 Resp: 37564  
 Ion Ratio Lower Upper  
 252 100  
 253 25.9 17.8 26.8  
 125 7.6 8.2 12.4

Manual Integrations

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Reviewed By :Christian Giraldo 09/26/2022  
 Supervised By :Jagrut Upadhyay 09/26/2022



#90

Benzo(a)pyrene

Concen: 5.189 ng

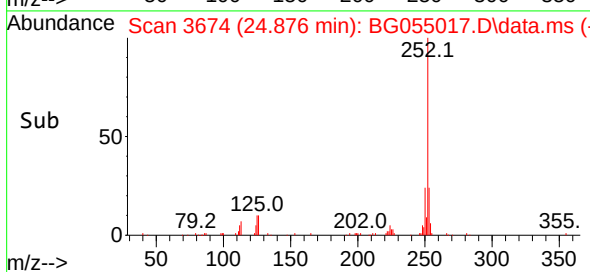
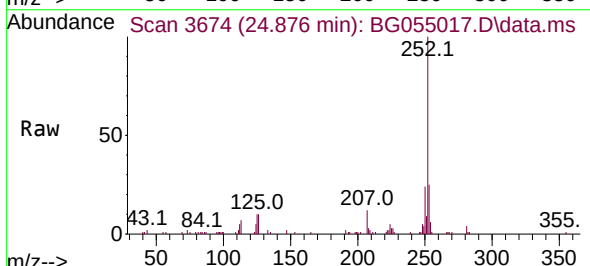
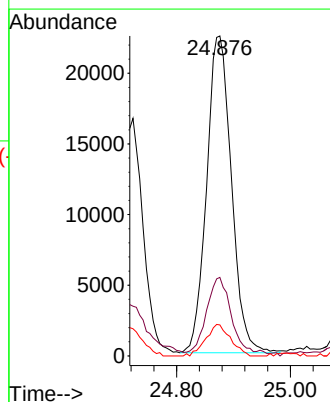
RT: 24.876 min Scan# 3674

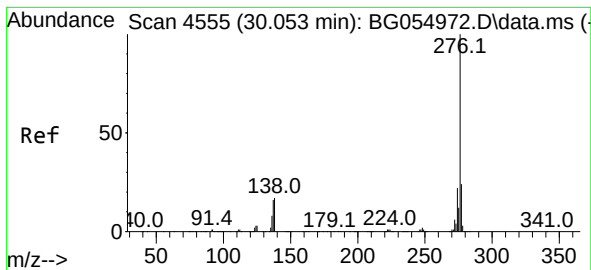
Delta R.T. -0.006 min

Lab File: BG055017.D

Acq: 23 Sep 2022 18:08

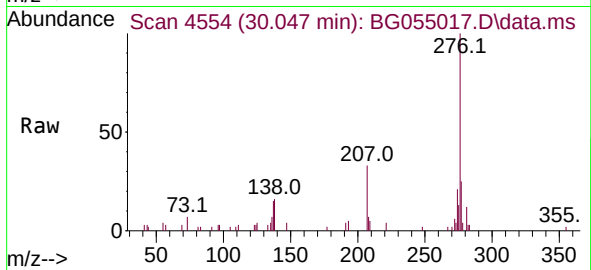
Tgt Ion:252 Resp: 68014  
 Ion Ratio Lower Upper  
 252 100  
 253 24.5 18.3 27.5  
 125 9.7 8.8 13.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 2.856 ng  
 RT: 30.047 min Scan# 4554  
 Delta R.T. -0.006 min  
 Lab File: BG055017.D  
 Acq: 23 Sep 2022 18:08

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PE-2



Tgt Ion: 276 Resp: 45485

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 25.0  | 19.4  | 29.0  |
| 138 | 15.9  | 16.6  | 25.0  |

Manual Integrations  
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Reviewed By :Christian Giraldo 09/26/2022  
 Supervised By :Jagrut Upadhyay 09/26/2022

