

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG110522\  
 Data File : BG055477.D  
 Acq On : 5 Nov 2022 19:38  
 Operator : CG/JU  
 Sample : N5435-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PTS-TP-COMP-1103

Quant Time: Nov 07 00:58:42 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG110122.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 07 00:51:08 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 11/07/2022  
 Supervised By :Jagrut Upadhyay 11/07/2022

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.230  | 152  | 31313    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.056 | 136  | 128710   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.845 | 164  | 87528    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.577 | 188  | 200579   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.849 | 240  | 207308   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 25.221 | 264  | 225625   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.756  | 112  | 226873   | 130.115 | ng    | 0.00     |
| 7) Phenol-d6                | 7.384  | 99   | 301544   | 124.709 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.405  | 82   | 187366   | 77.583  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.326 | 330  | 158002   | 132.341 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.470 | 172  | 457309   | 77.465  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.151 | 244  | 764151   | 71.677  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.619 | 178  | 55320    | 4.903   | ng    | 99       |
| 75) Fluoranthene            | 19.610 | 202  | 112182   | 8.266   | ng    | 99       |
| 78) Pyrene                  | 19.969 | 202  | 114899   | 7.857   | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.831 | 228  | 69815    | 4.906   | ng    | 97       |
| 83) Chrysene                | 21.896 | 228  | 81378m   | 5.994   | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 29.087 | 276  | 46323    | 2.557   | ng    | # 83     |
| 88) Benzo(b)fluoranthene    | 24.140 | 252  | 88484    | 6.174   | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 24.205 | 252  | 35277m   | 2.449   | ng    |          |
| 90) Benzo(a)pyrene          | 25.057 | 252  | 65372    | 5.275   | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 30.304 | 276  | 49116    | 3.304   | ng    | 97       |
| -----                       |        |      |          |         |       |          |

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

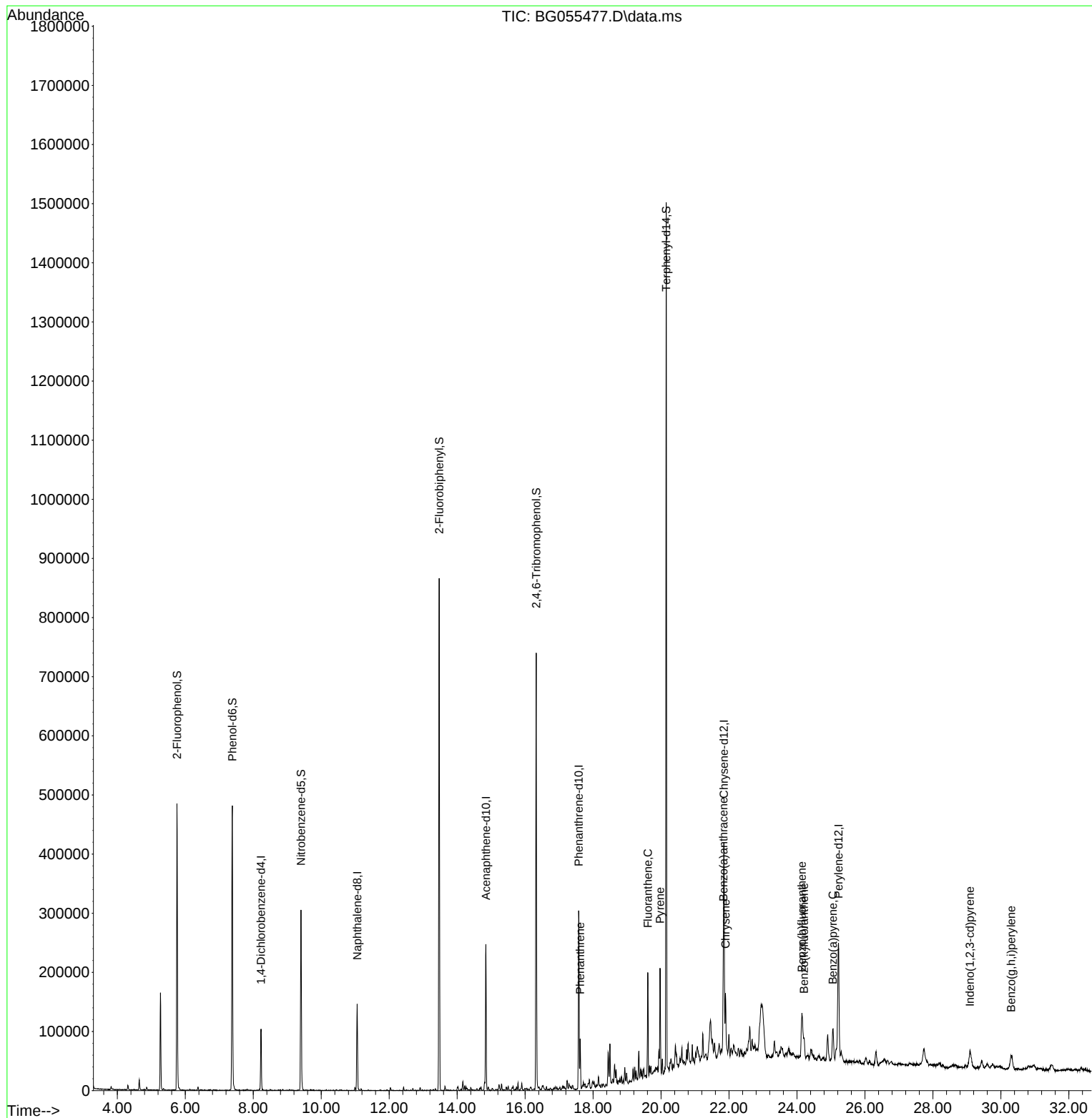
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG110522\  
Data File : BG055477.D  
Acq On : 5 Nov 2022 19:38  
Operator : CG/JU  
Sample : N5435-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

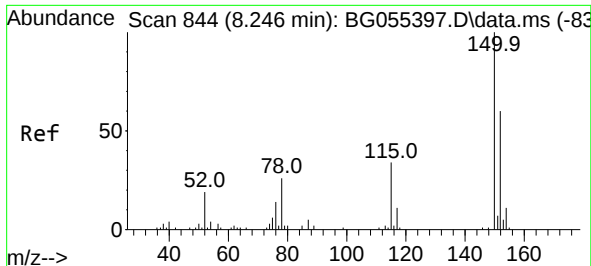
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103

Quant Time: Nov 07 00:58:42 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG110122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 07 00:51:08 2022  
Response via : Initial Calibration

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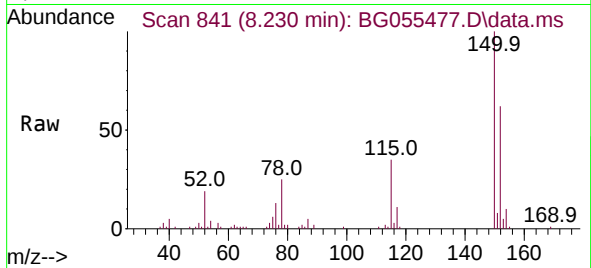
Reviewed By : Christian Giraldo 11/07/2022  
Supervised By : Jagrut Upadhyay 11/07/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.230 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

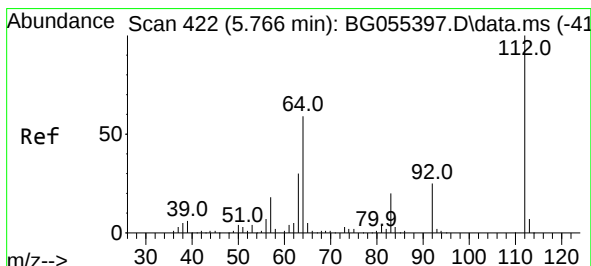
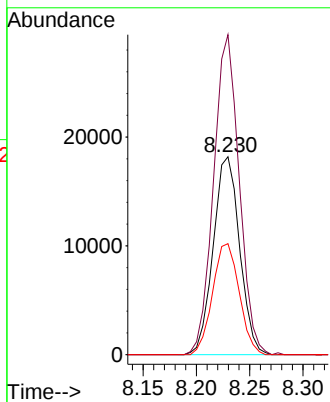
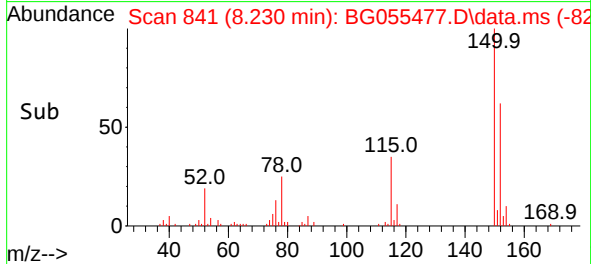
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103



Tgt Ion:152 Resp: 3131  
Ion Ratio Lower Upper  
152 100  
150 161.8 132.8 199.2  
115 56.1 45.1 67.7

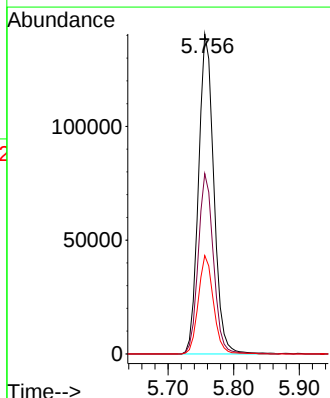
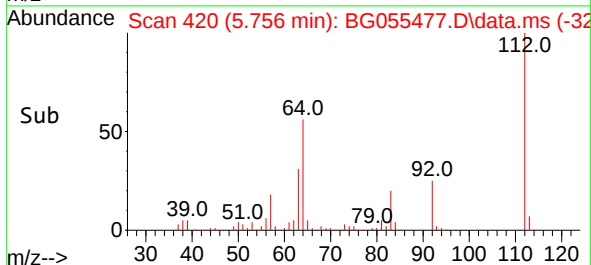
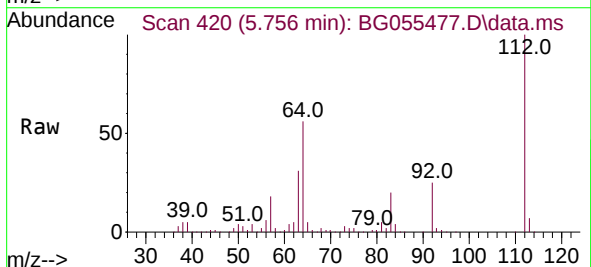
Manual Integrations  
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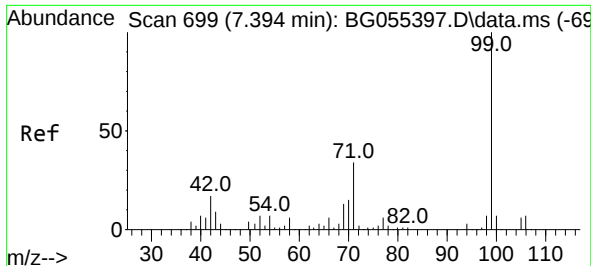
Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#5  
2-Fluorophenol  
Concen: 130.115 ng  
RT: 5.756 min Scan# 420  
Delta R.T. 0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

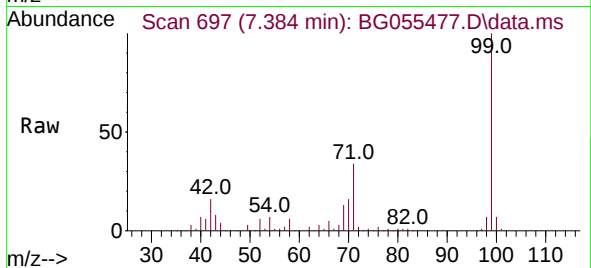
Tgt Ion:112 Resp: 226873  
Ion Ratio Lower Upper  
112 100  
64 56.3 47.2 70.8  
63 30.7 24.3 36.5





#7  
Phenol-d6  
Concen: 124.709 ng  
RT: 7.384 min Scan# 69  
Delta R.T. 0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

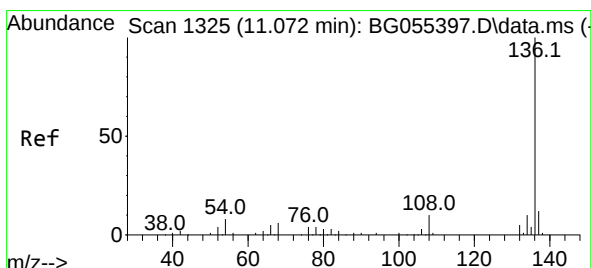
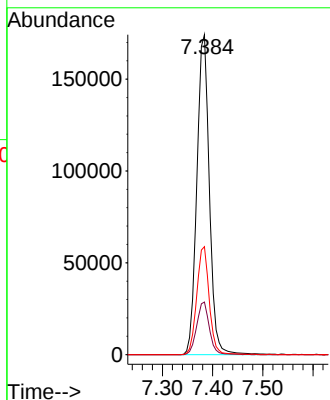
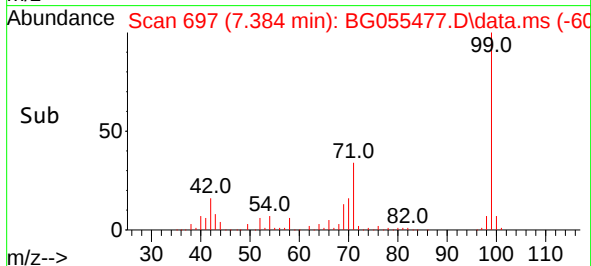
Instrument :  
BNA\_G  
ClientSampleId :  
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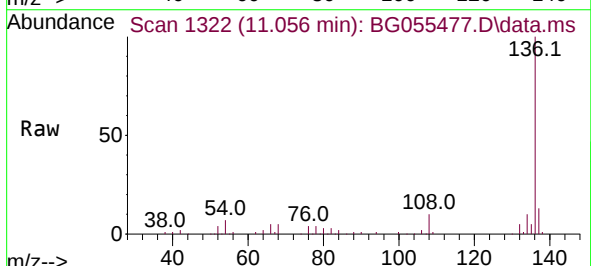
Tgt Ion: 99 Resp: 301544  
Ion Ratio Lower Upper  
99 100  
42 16.4 13.5 20.3  
71 33.7 27.4 41.0

Manual Integrations  
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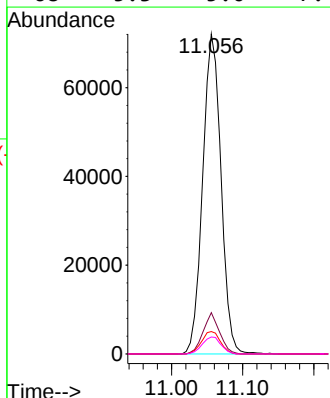
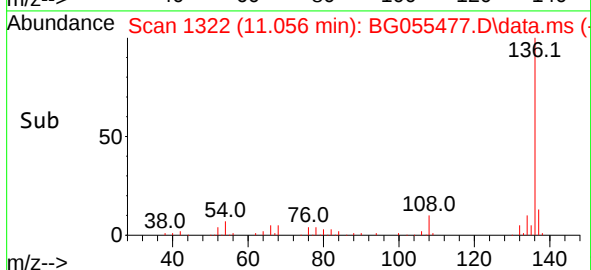
Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022

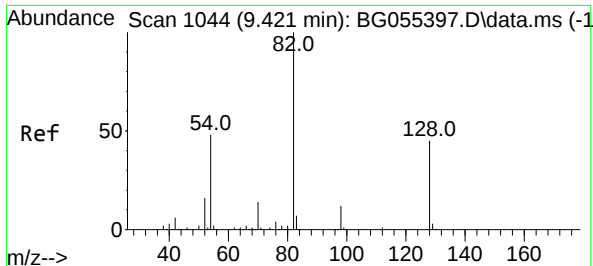


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.056 min Scan# 1322  
Delta R.T. -0.000 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38



Tgt Ion:136 Resp: 128710  
Ion Ratio Lower Upper  
136 100  
137 12.9 9.4 14.2  
54 7.0 6.1 9.1  
68 5.3 5.0 7.4





#23

Nitrobenzene-d5

Concen: 77.583 ng

RT: 9.405 min Scan# 1044

Delta R.T. -0.000 min

Lab File: BG055477.D

Acq: 5 Nov 2022 19:38

Instrument :

BNA\_G

ClientSampleId :

PTS-TP-COMP-1103

Tgt Ion: 82 Resp: 187366

Ion Ratio Lower Upper

82 100

128 46.6 35.8 53.8

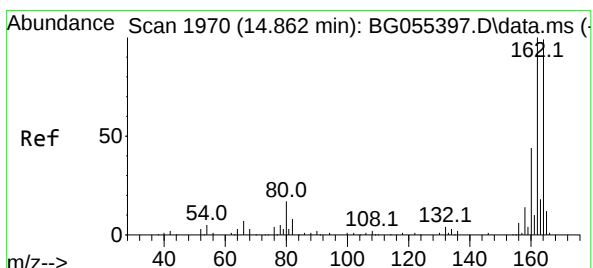
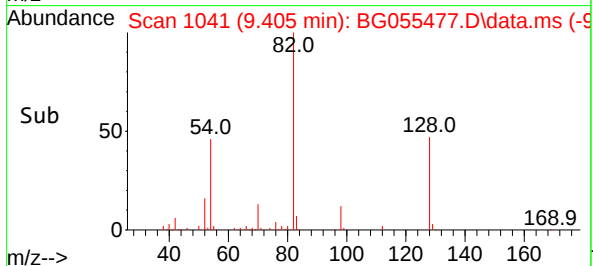
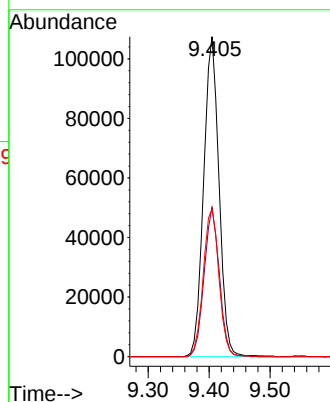
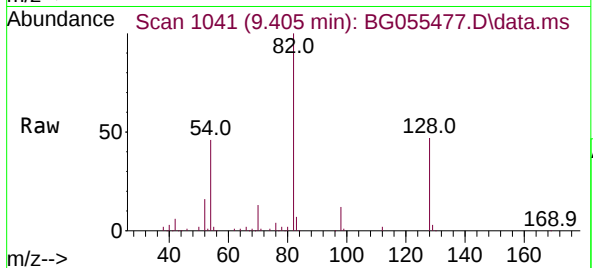
54 46.2 38.1 57.1

Manual Integrations

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Supervised By :Jagrut Upadhyay 11/07/2022



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.845 min Scan# 1967

Delta R.T. -0.000 min

Lab File: BG055477.D

Acq: 5 Nov 2022 19:38

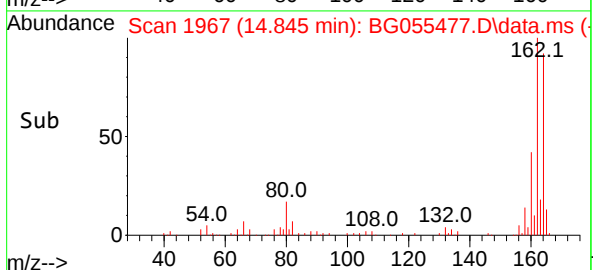
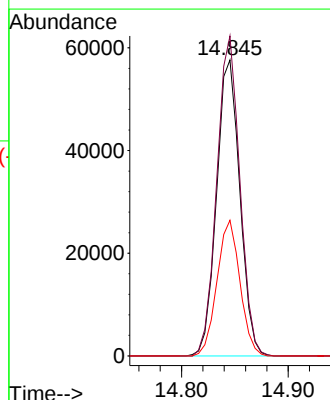
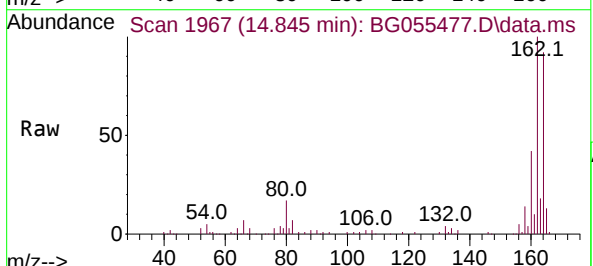
Tgt Ion:164 Resp: 87528

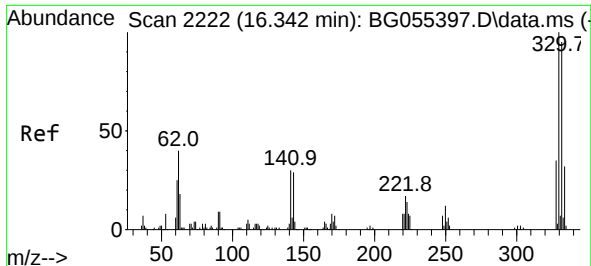
Ion Ratio Lower Upper

164 100

162 108.1 81.1 121.7

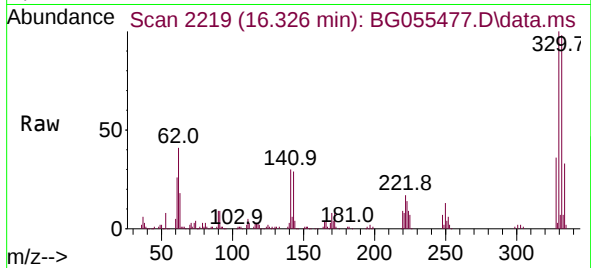
160 45.8 35.8 53.6





#42  
2,4,6-Tribromophenol  
Concen: 132.341 ng  
RT: 16.326 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

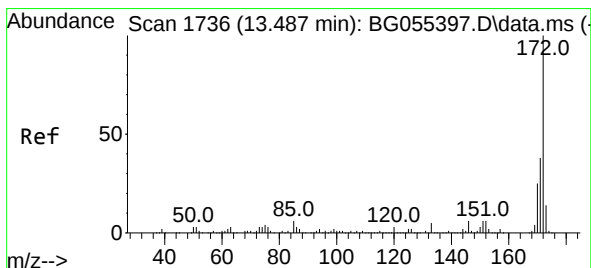
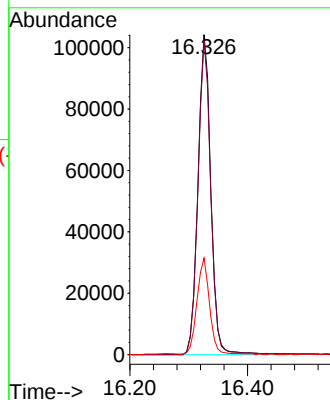
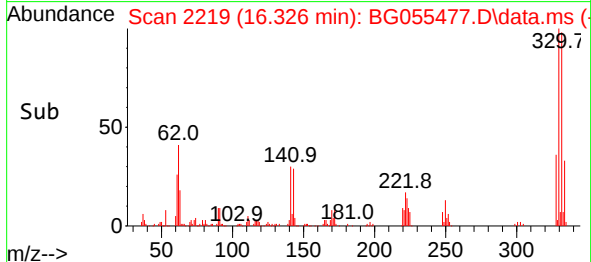
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103



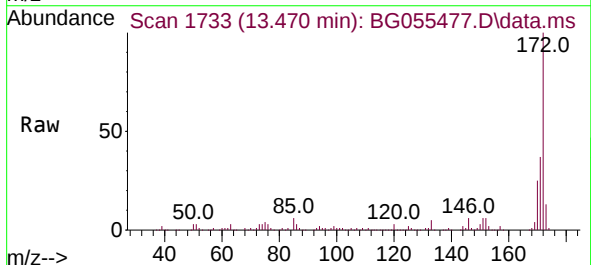
Tgt Ion:330 Resp: 158002  
Ion Ratio Lower Upper  
330 100  
332 97.3 77.8 116.6  
141 29.9 24.2 36.2

Manual Integrations  
APPROVED

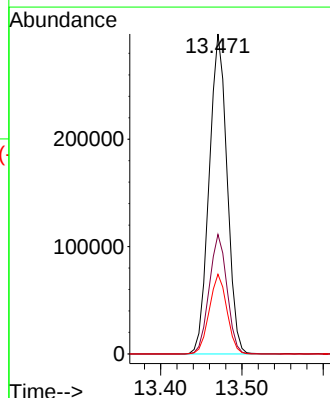
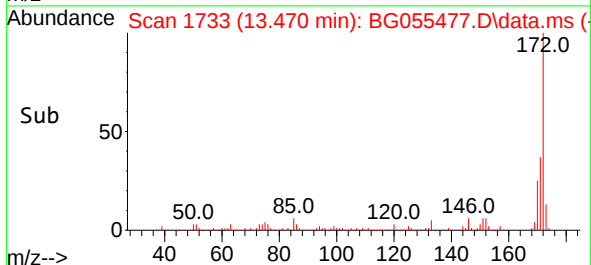
Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022

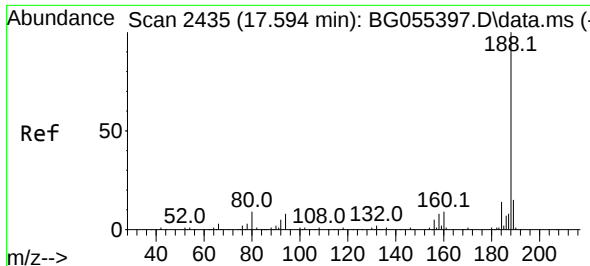


#45  
2-Fluorobiphenyl  
Concen: 77.465 ng  
RT: 13.470 min Scan# 1733  
Delta R.T. -0.000 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38



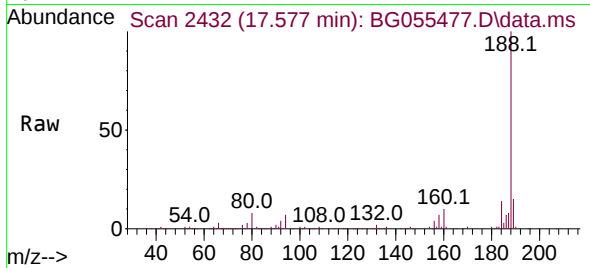
Tgt Ion:172 Resp: 457309  
Ion Ratio Lower Upper  
172 100  
171 37.3 30.2 45.2  
170 24.9 20.2 30.2





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.577 min Scan# 2432  
Delta R.T. -0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

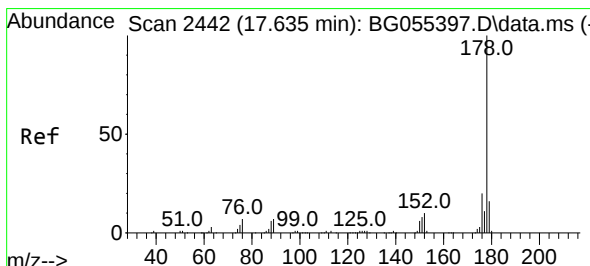
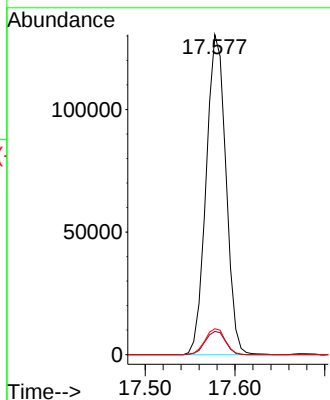
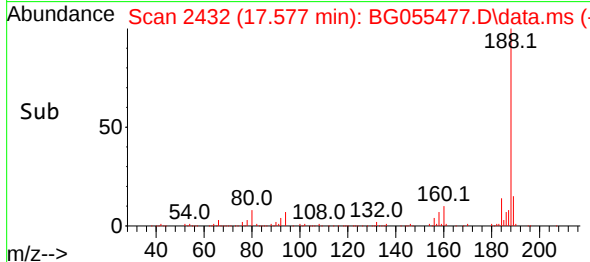
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103



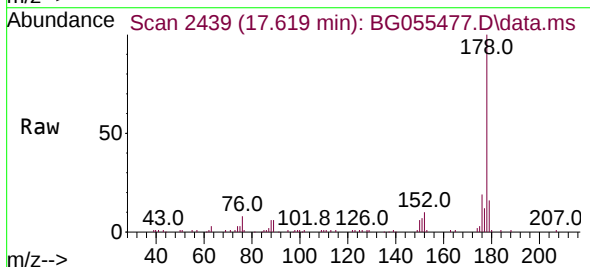
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Ion Ratio Lower Upper  
188 100  
94 7.2 6.5 9.7  
80 8.1 7.4 11.0

Manual Integrations  
APPROVED

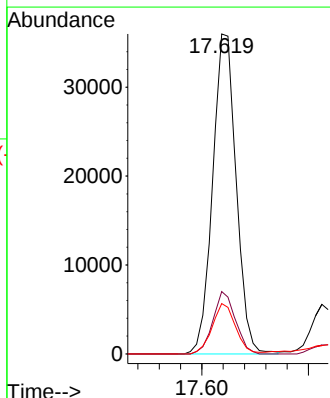
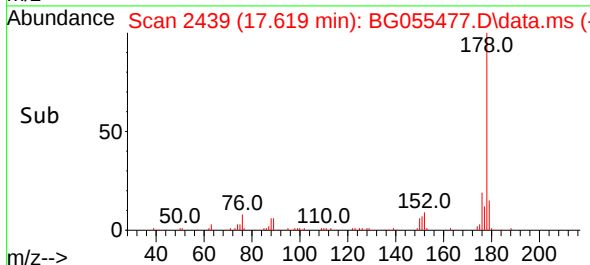
Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022

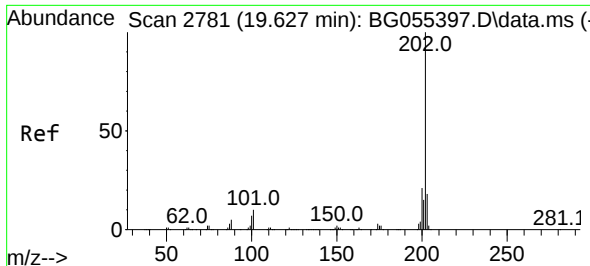


#71  
Phenanthrene  
Concen: 4.903 ng  
RT: 17.619 min Scan# 2439  
Delta R.T. -0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38



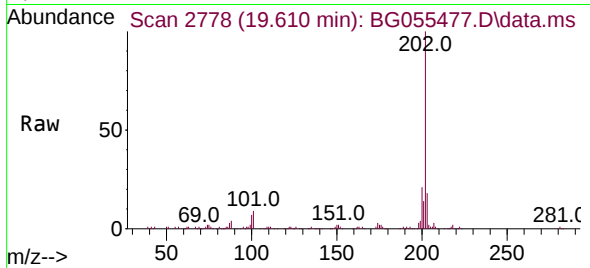
Tgt Ion:178 Resp: 55320  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.8 23.8  
179 15.7 12.7 19.1





#75  
Fluoranthene  
Concen: 8.266 ng  
RT: 19.610 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

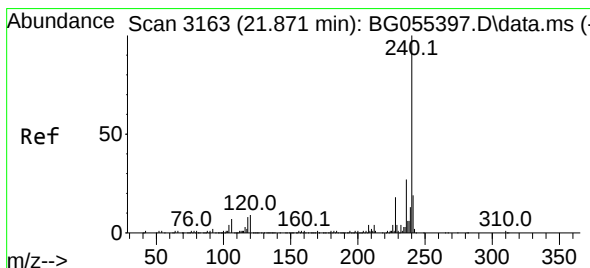
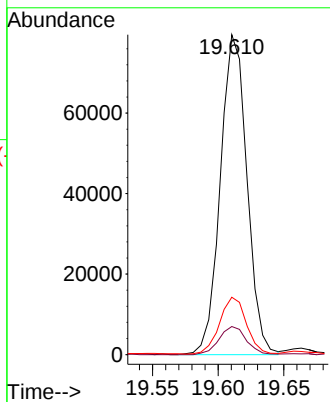
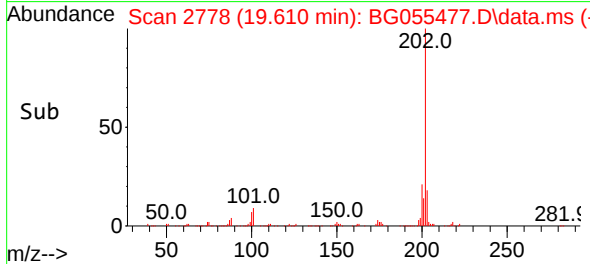
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103



Tgt Ion:202 Resp: 112182  
Ion Ratio Lower Upper  
202 100  
101 8.8 0.0 29.8  
203 17.9 0.0 38.1

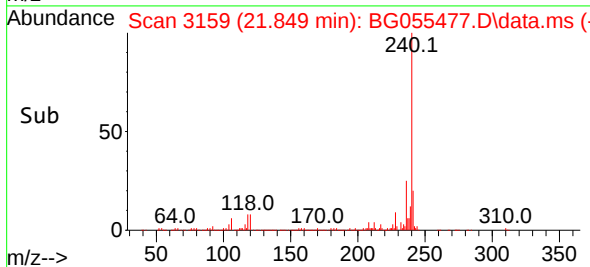
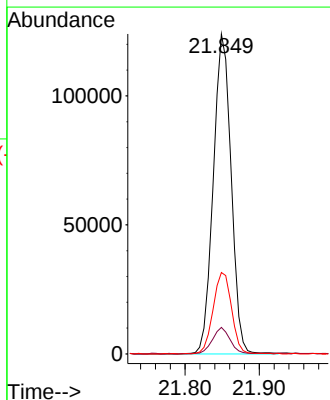
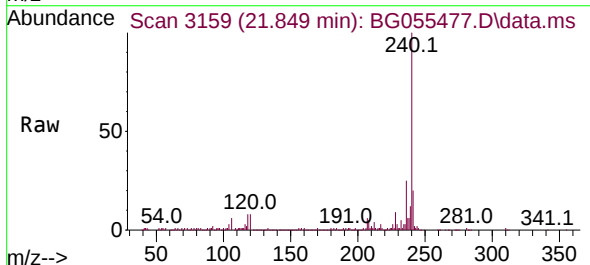
Manual Integrations  
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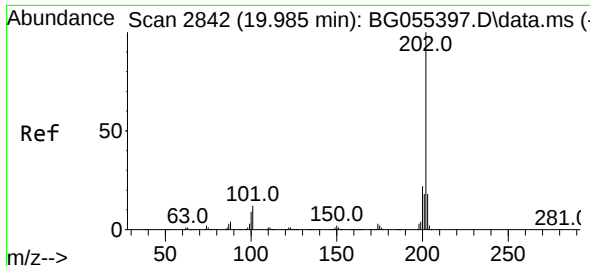
Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.849 min Scan# 3159  
Delta R.T. -0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

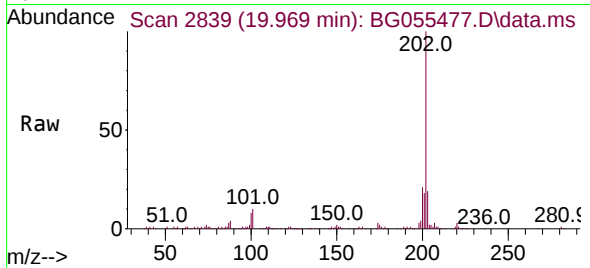
Tgt Ion:240 Resp: 207308  
Ion Ratio Lower Upper  
240 100  
120 8.3 6.9 10.3  
236 25.4 21.5 32.3





#78  
 Pyrene  
 Concen: 7.857 ng  
 RT: 19.969 min Scan# 2842  
 Delta R.T. -0.006 min  
 Lab File: BG055477.D  
 Acq: 5 Nov 2022 19:38

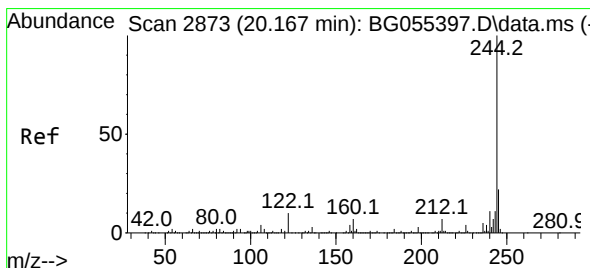
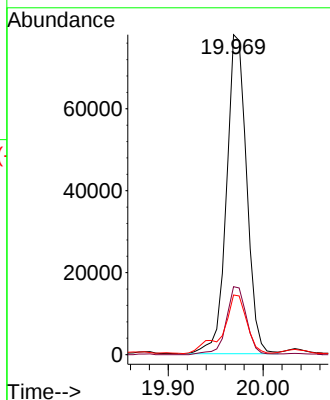
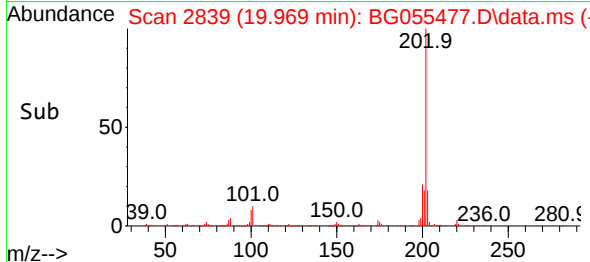
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PTS-TP-COMP-1103



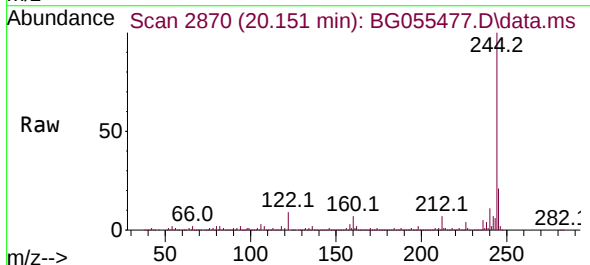
Tgt Ion:202 Resp: 114899  
 Ion Ratio Lower Upper  
 202 100  
 200 21.2 17.4 26.2  
 203 18.6 14.7 22.1

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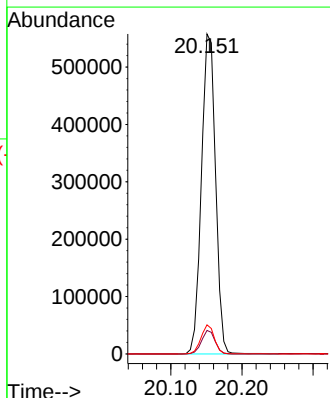
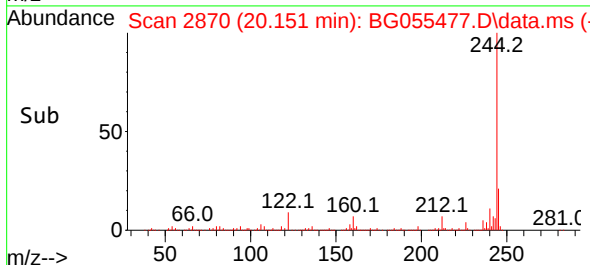
Reviewed By :Christian Giraldo 11/07/2022  
 Supervised By :Jagrut Upadhyay 11/07/2022

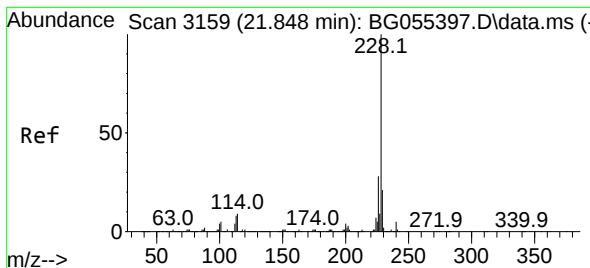


#79  
 Terphenyl-d14  
 Concen: 71.677 ng  
 RT: 20.151 min Scan# 2870  
 Delta R.T. -0.006 min  
 Lab File: BG055477.D  
 Acq: 5 Nov 2022 19:38



Tgt Ion:244 Resp: 764151  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.8 8.8  
 122 9.1 7.8 11.6





#81

Benzo(a)anthracene

Concen: 4.906 ng

RT: 21.831 min Scan# 3159

Delta R.T. -0.000 min

Lab File: BG055477.D

Acq: 5 Nov 2022 19:38

Instrument :

BNA\_G

ClientSampleId :

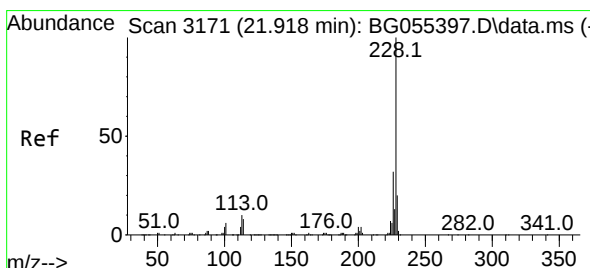
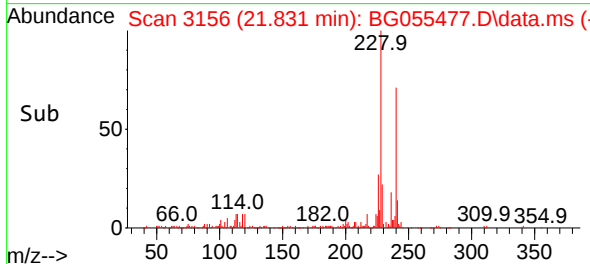
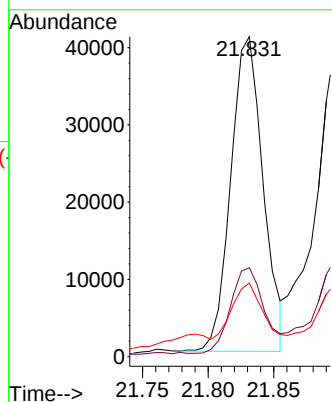
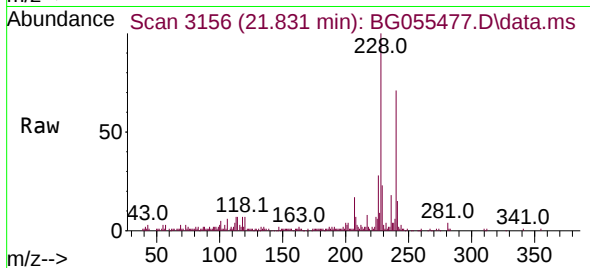
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Tgt Ion:228 Resp: 69815  
 Ion Ratio Lower Upper  
 228 100  
 226 27.8 22.6 33.8  
 229 23.0 16.5 24.7

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Reviewed By :Christian Giraldo 11/07/2022  
 Supervised By :Jagrut Upadhyay 11/07/2022



#83

Chrysene

Concen: 5.994 ng m

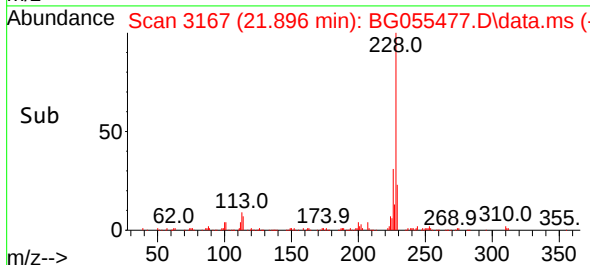
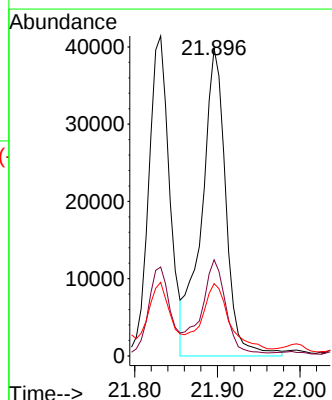
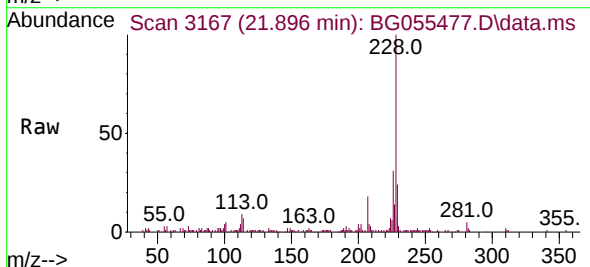
RT: 21.896 min Scan# 3167

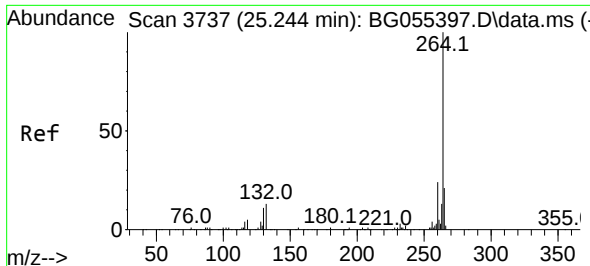
Delta R.T. -0.006 min

Lab File: BG055477.D

Acq: 5 Nov 2022 19:38

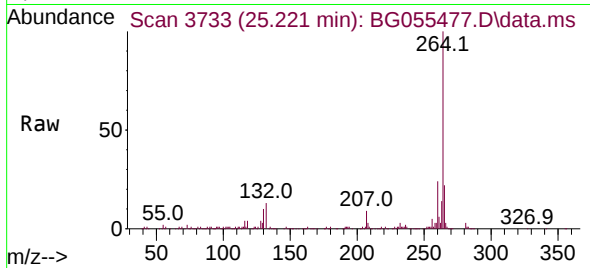
Tgt Ion:228 Resp: 81378  
 Ion Ratio Lower Upper  
 228 100  
 226 31.3 25.2 37.8  
 229 23.5 16.2 24.2





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.221 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

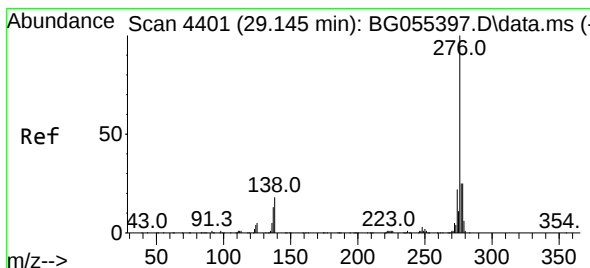
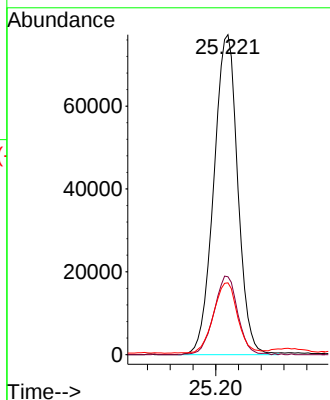
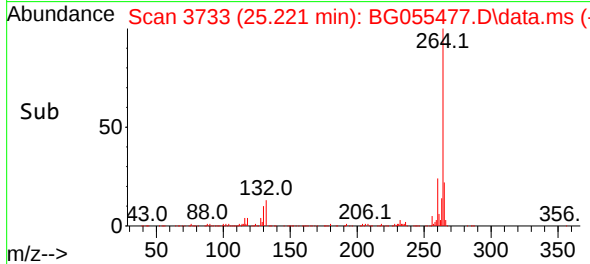
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103



Tgt Ion:264 Resp: 225625  
Ion Ratio Lower Upper  
264 100  
260 24.3 18.9 28.3  
265 22.4 17.1 25.7

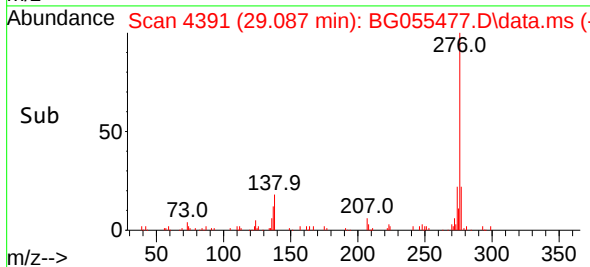
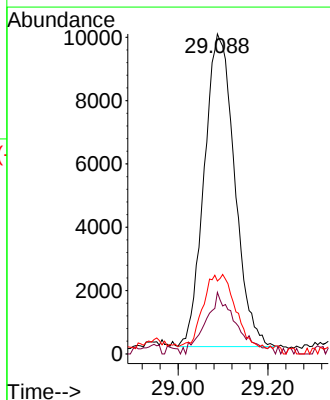
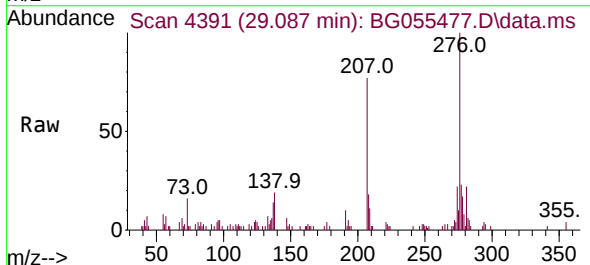
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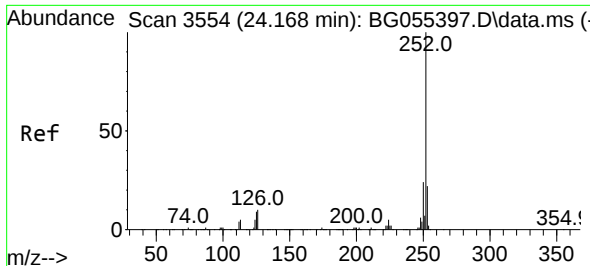
Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.557 ng  
RT: 29.087 min Scan# 4391  
Delta R.T. -0.024 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

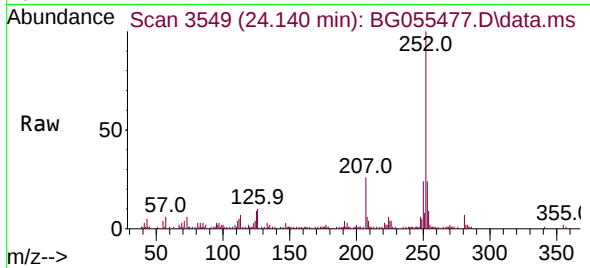
Tgt Ion:276 Resp: 46323  
Ion Ratio Lower Upper  
276 100  
138 19.6 16.2 24.2  
277 11.0 20.5 30.7#





#88  
Benzo(b)fluoranthene  
Concen: 6.174 ng  
RT: 24.140 min Scan# 3549  
Delta R.T. -0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

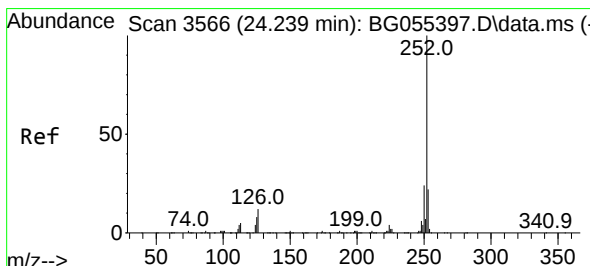
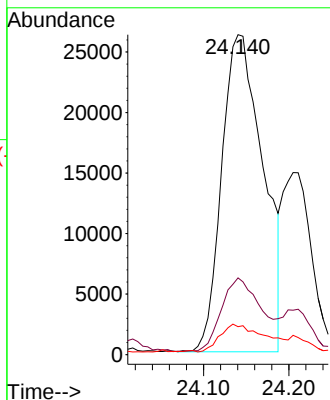
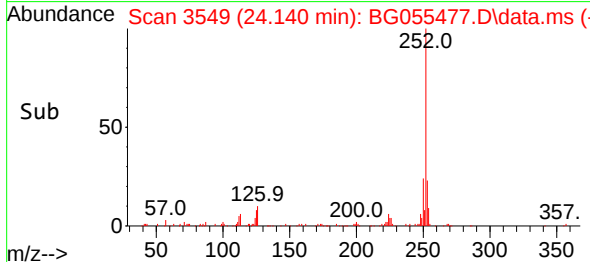
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103



Tgt Ion:252 Resp: 88484  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.8 26.8  
125 8.7 6.8 10.2

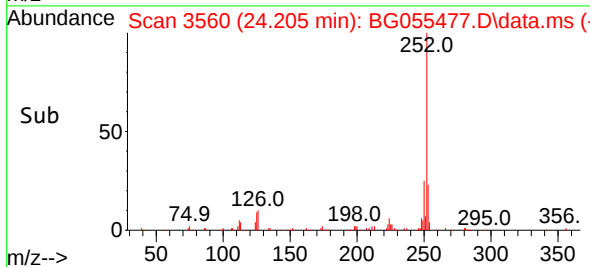
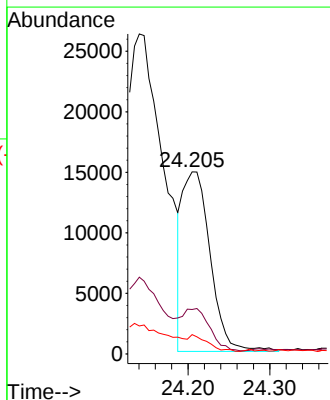
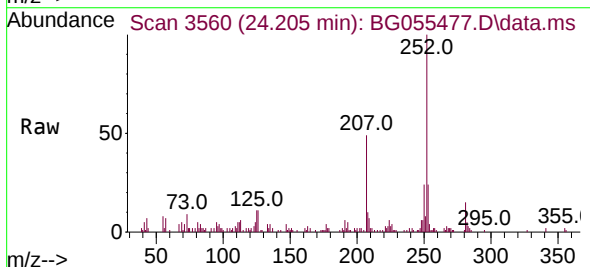
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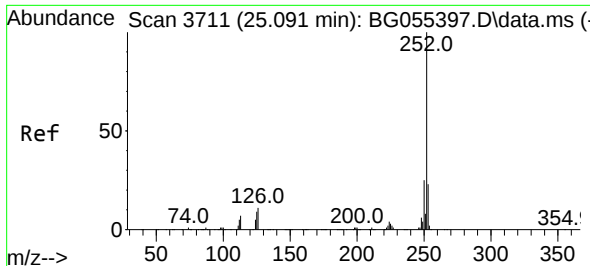
Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#89  
Benzo(k)fluoranthene  
Concen: 2.449 ng m  
RT: 24.205 min Scan# 3560  
Delta R.T. -0.012 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

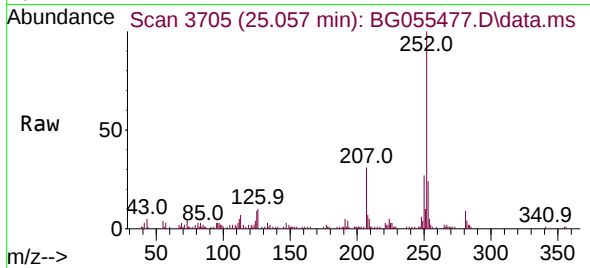
Tgt Ion:252 Resp: 35277  
Ion Ratio Lower Upper  
252 100  
253 24.4 17.9 26.9  
125 10.6 6.9 10.3#





#90  
Benzo(a)pyrene  
Concen: 5.275 ng  
RT: 25.057 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

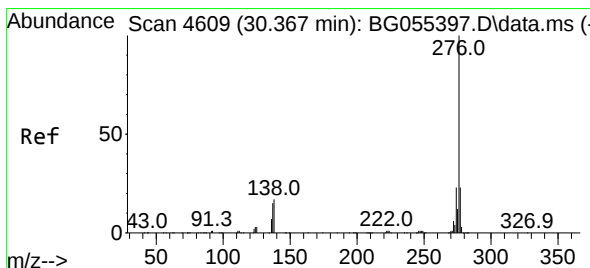
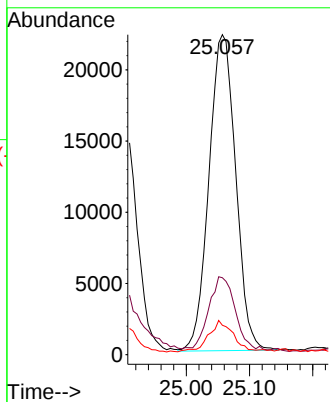
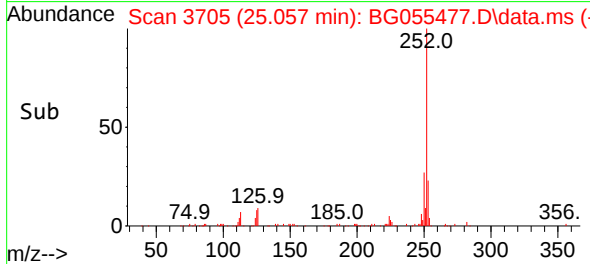
Instrument :  
BNA\_G  
ClientSampleId :  
PTS-TP-COMP-1103



Tgt Ion:252 Resp: 65372  
Ion Ratio Lower Upper  
252 100  
253 24.0 18.2 27.2  
125 9.2 7.1 10.7

Manual Integrations  
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Reviewed By :Christian Giraldo 11/07/2022  
Supervised By :Jagrut Upadhyay 11/07/2022



#92  
Benzo(g,h,i)perylene  
Concen: 3.304 ng  
RT: 30.304 min Scan# 4598  
Delta R.T. -0.018 min  
Lab File: BG055477.D  
Acq: 5 Nov 2022 19:38

Tgt Ion:276 Resp: 49116  
Ion Ratio Lower Upper  
276 100  
277 25.0 18.6 28.0  
138 17.9 13.4 20.0

