

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072222\  
 Data File : BG054371.D  
 Acq On : 22 Jul 2022 22:52  
 Operator : CG/JU  
 Sample : N3833-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-03-072122

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 07/25/2022  
 Supervised By : Jagrut Upadhyay 07/25/2022

Quant Time: Jul 23 00:13:00 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 15 15:54:11 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.995  | 152  | 26408    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.803 | 136  | 98273    | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.628 | 164  | 70550    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.372 | 188  | 167574   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.638 | 240  | 183964   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 24.846 | 264  | 182667   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.568  | 112  | 21799    | 17.235 | ng    | 0.00     |
| 7) Phenol-d6                | 7.178  | 99   | 35987    | 20.764 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.158  | 82   | 26447    | 14.655 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.115 | 330  | 21444    | 14.477 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.248 | 172  | 84115    | 16.819 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.981 | 244  | 150640   | 16.244 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.413 | 178  | 83319    | 9.984  | ng    | 98       |
| 72) Anthracene              | 17.507 | 178  | 17342    | 2.118  | ng    | 96       |
| 75) Fluoranthene            | 19.429 | 202  | 158347   | 13.920 | ng    | 96       |
| 78) Pyrene                  | 19.787 | 202  | 162073   | 15.354 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.620 | 228  | 84420    | 7.229  | ng    | # 90     |
| 83) Chrysene                | 21.685 | 228  | 85035    | 7.707  | ng    | # 92     |
| 87) Indeno(1,2,3-cd)pyrene  | 28.530 | 276  | 28176    | 2.028  | ng    | # 94     |
| 88) Benzo(b)fluoranthene    | 23.835 | 252  | 95400m   | 8.831  | ng    |          |
| 89) Benzo(k)fluoranthene    | 23.888 | 252  | 30930m   | 2.877  | ng    |          |
| 90) Benzo(a)pyrene          | 24.699 | 252  | 67809    | 7.350  | ng    | # 96     |
| 92) Benzo(g,h,i)perylene    | 29.681 | 276  | 28091    | 2.491  | ng    | # 92     |
| -----                       |        |      |          |        |       |          |

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

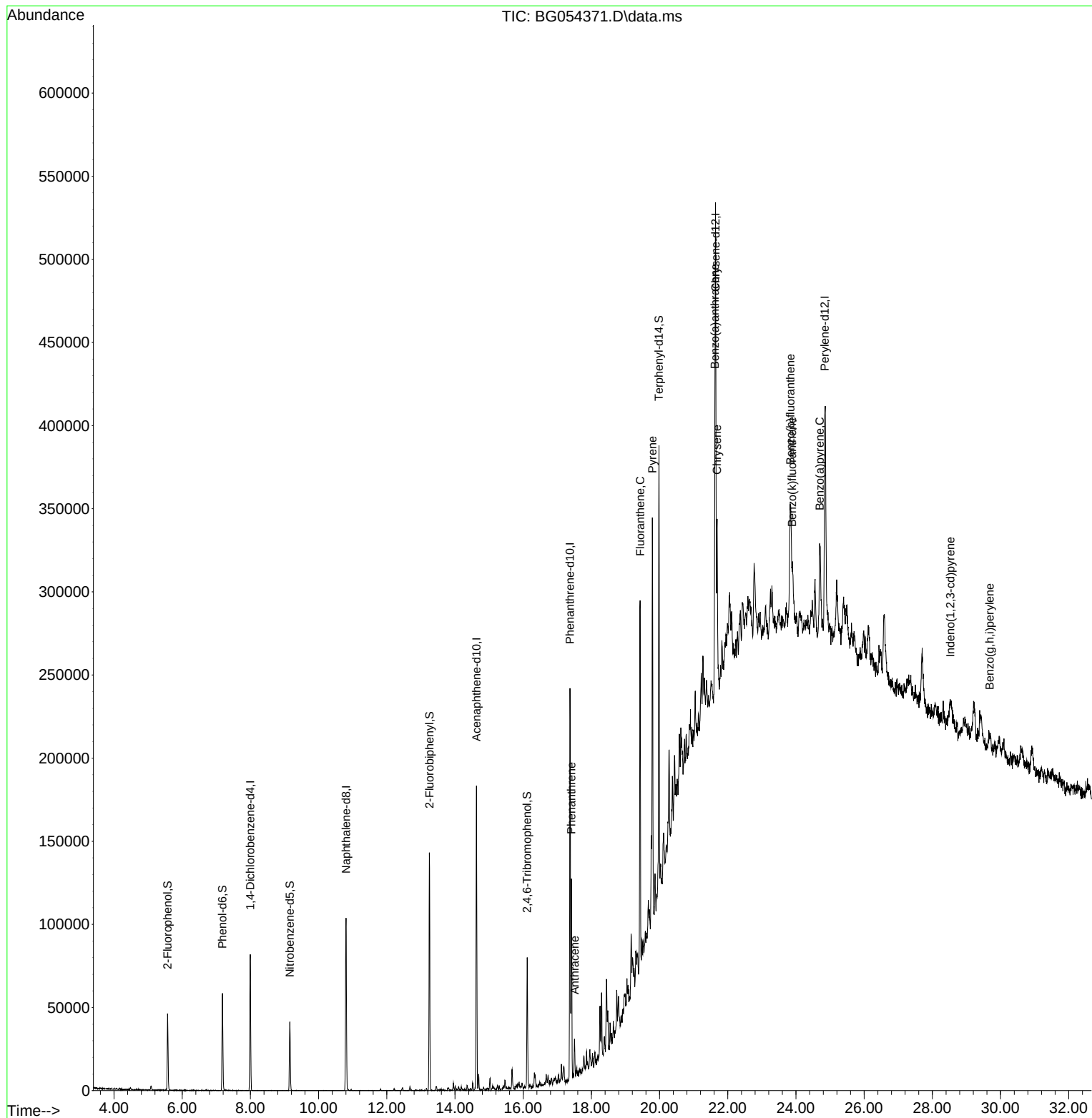
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072222\  
Data File : BG054371.D  
Acq On : 22 Jul 2022 22:52  
Operator : CG/JU  
Sample : N3833-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

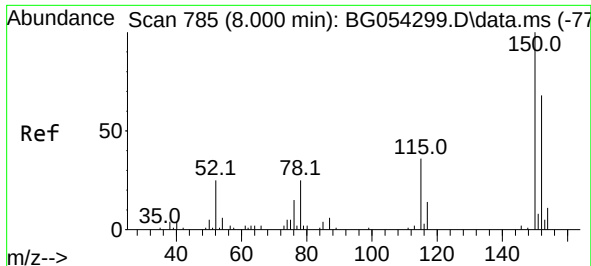
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-072122

Quant Time: Jul 23 00:13:00 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 15 15:54:11 2022  
Response via : Initial Calibration

Manual Integrations  
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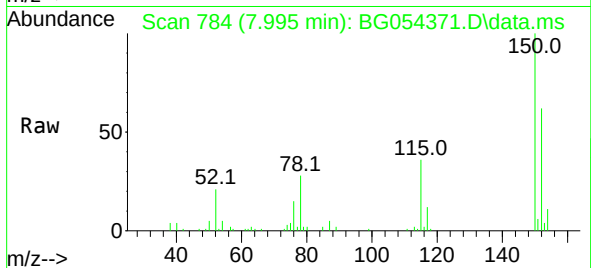
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.995 min Scan# 71  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

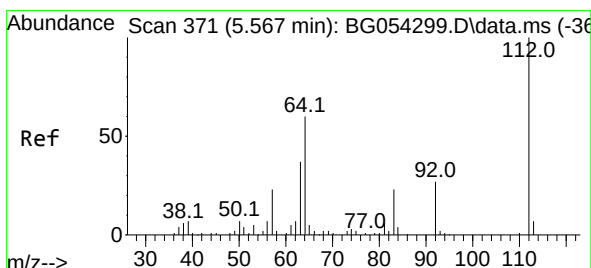
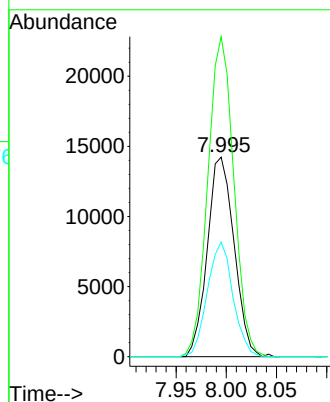
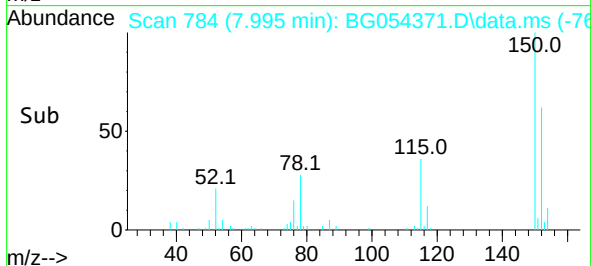
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-072122



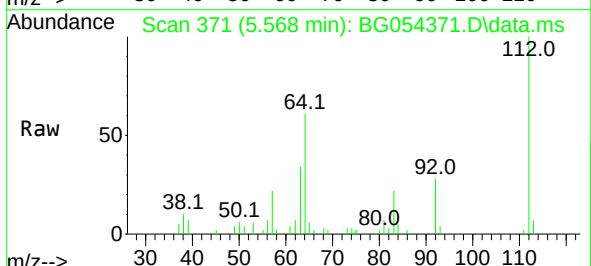
Tgt Ion:152 Resp: 26408  
Ion Ratio Lower Upper  
152 100  
150 160.3 131.6 197.4  
115 57.4 50.9 76.3

Manual Integrations  
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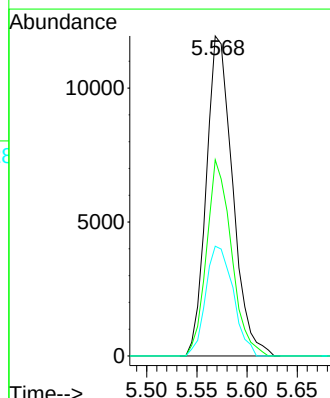
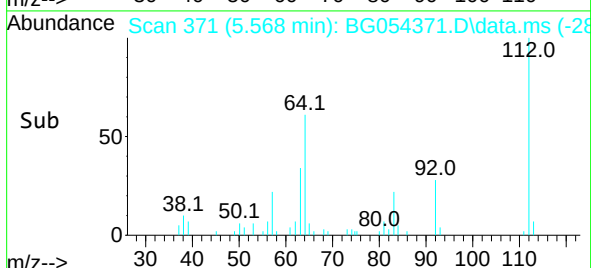
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022

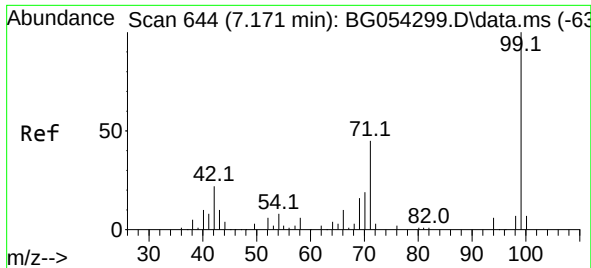


#5  
2-Fluorophenol  
Concen: 17.235 ng  
RT: 5.568 min Scan# 371  
Delta R.T. 0.001 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52



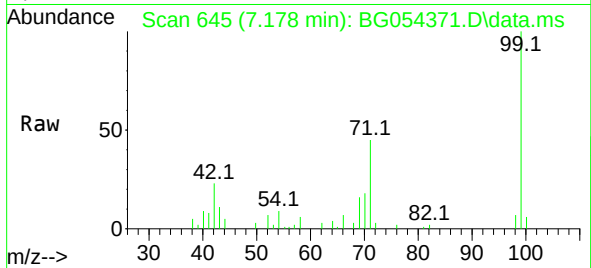
Tgt Ion:112 Resp: 21799  
Ion Ratio Lower Upper  
112 100  
64 61.3 55.1 82.7  
63 34.3 30.4 45.6





#7  
Phenol-d6  
Concen: 20.764 ng  
RT: 7.178 min Scan# 64  
Delta R.T. 0.007 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

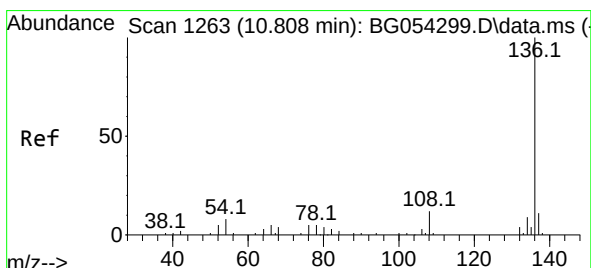
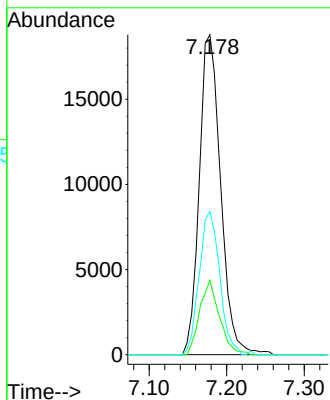
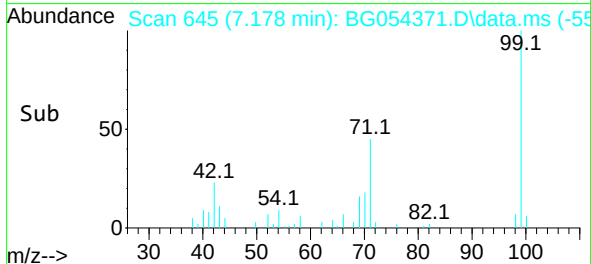
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-072122



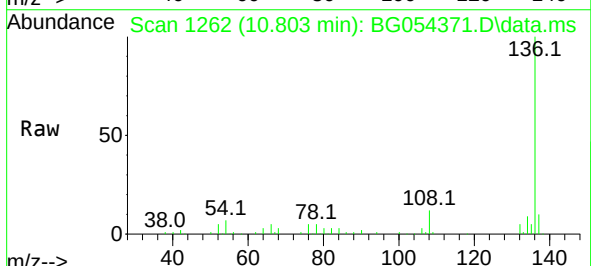
Tgt Ion: 99 Resp: 3598  
Ion Ratio Lower Upper  
99 100  
42 23.2 17.0 25.6  
71 44.7 33.8 50.8

Manual Integrations  
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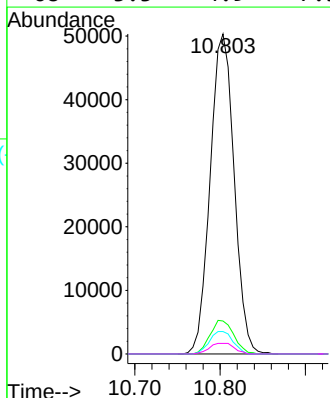
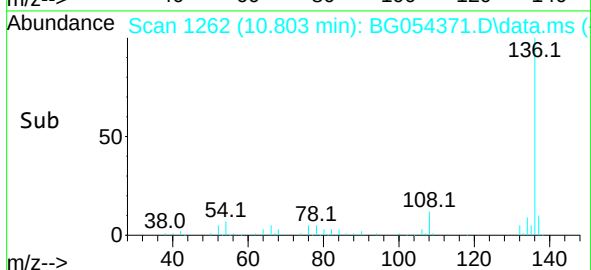
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022

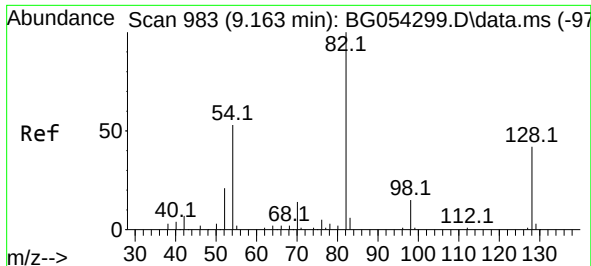


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.803 min Scan# 1262  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52



Tgt Ion:136 Resp: 98273  
Ion Ratio Lower Upper  
136 100  
137 10.3 8.5 12.7  
54 7.0 7.4 11.2#  
68 3.3 4.9 7.3#





#23  
Nitrobenzene-d5  
Concen: 14.655 ng  
RT: 9.158 min Scan# 91  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

Instrument :

BNA\_G

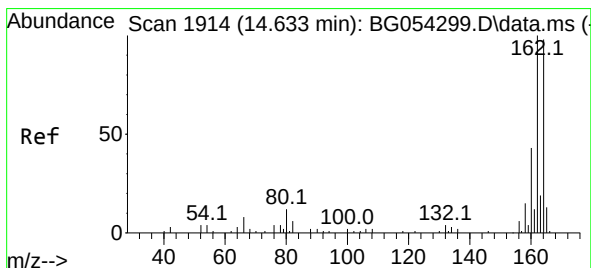
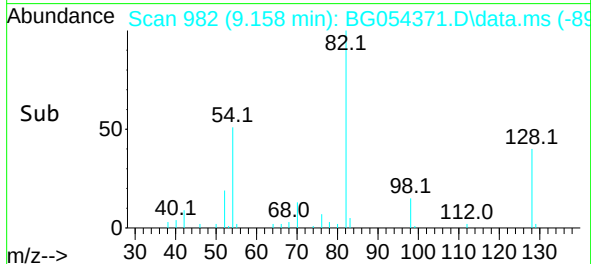
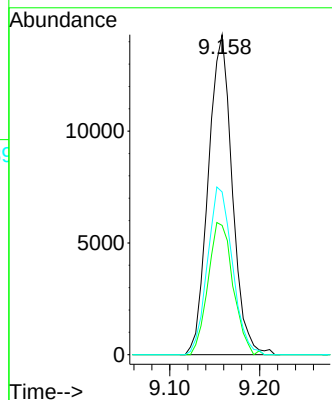
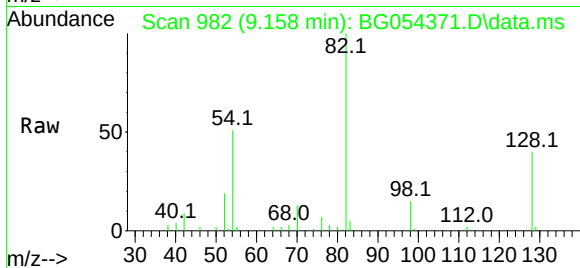
ClientSampleId :

OR-03-072122

Tgt Ion: 82 Resp: 2644  
Ion Ratio Lower Upper  
82 100  
128 40.4 27.9 41.9  
54 50.9 41.2 61.8

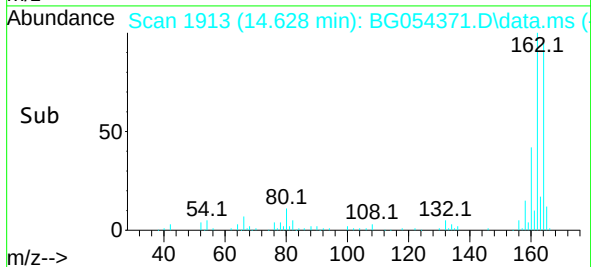
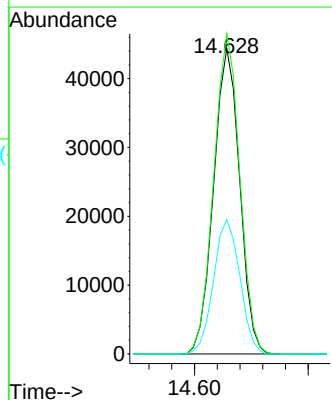
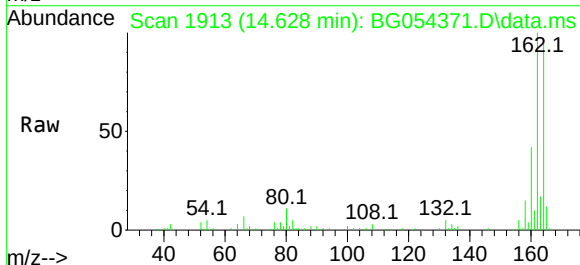
Manual Integrations  
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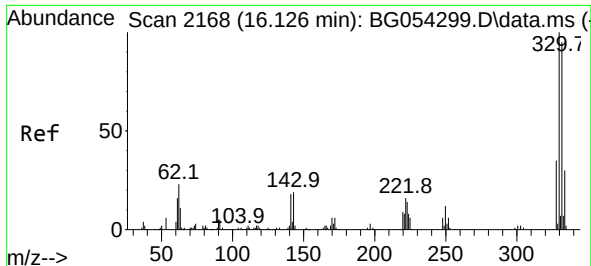
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.628 min Scan# 1913  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

Tgt Ion:164 Resp: 70550  
Ion Ratio Lower Upper  
164 100  
162 104.7 82.3 123.5  
160 43.9 34.2 51.2





#42  
2,4,6-Tribromophenol  
Concen: 14.477 ng  
RT: 16.115 min Scan# 2166  
Delta R.T. -0.011 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

Instrument :

BNA\_G

ClientSampleId :

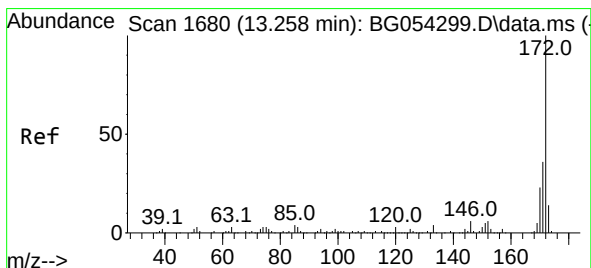
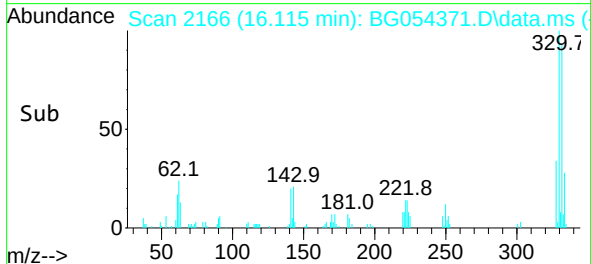
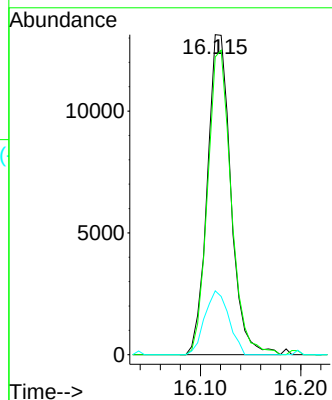
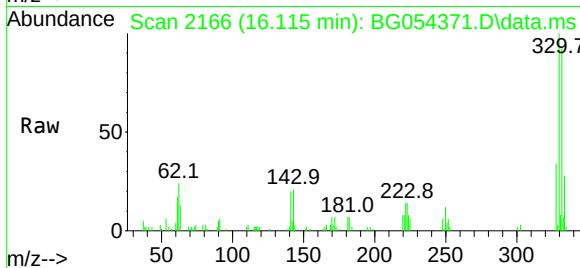
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Tgt Ion:330 Resp: 2144  
Ion Ratio Lower Upper  
330 100  
332 95.3 76.0 114.0  
141 20.4 27.1 40.7

Manual Integrations

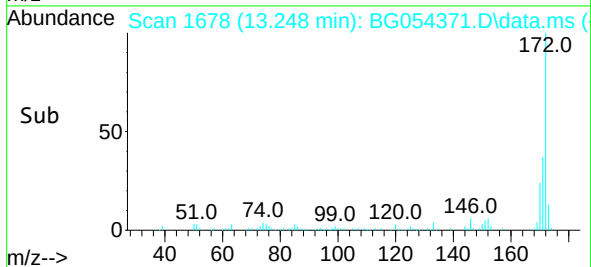
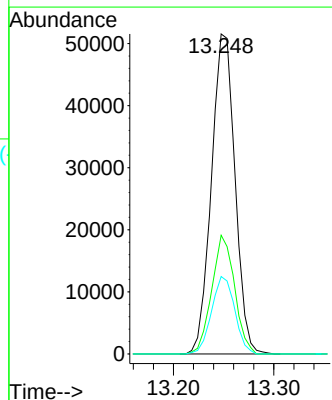
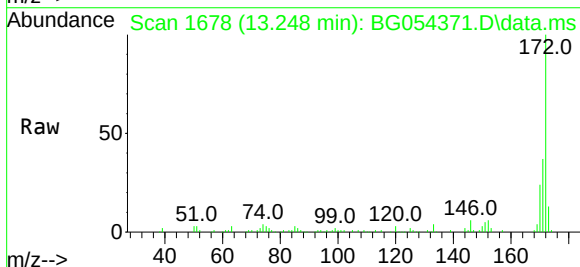
APPROVED

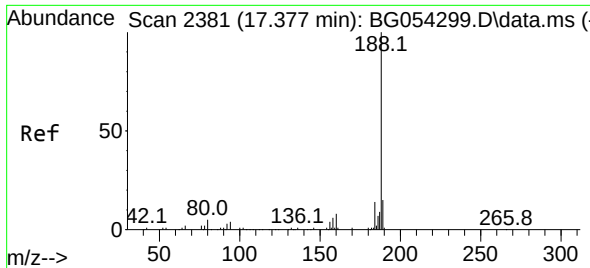
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022



#45  
2-Fluorobiphenyl  
Concen: 16.819 ng  
RT: 13.248 min Scan# 1678  
Delta R.T. -0.011 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

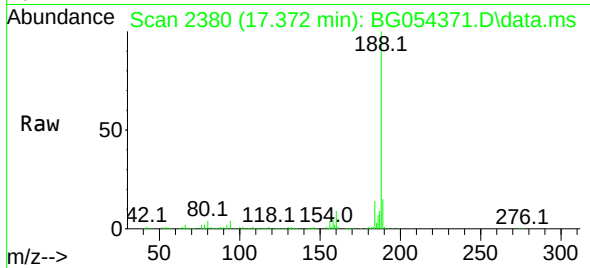
Tgt Ion:172 Resp: 84115  
Ion Ratio Lower Upper  
172 100  
171 37.1 28.5 42.7  
170 24.2 18.9 28.3





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.372 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

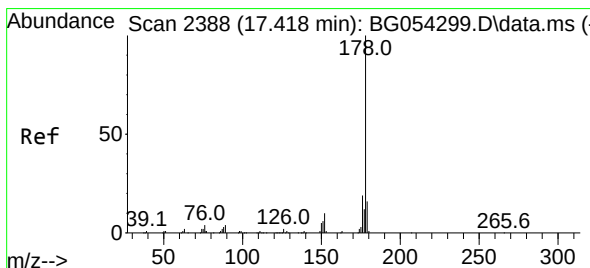
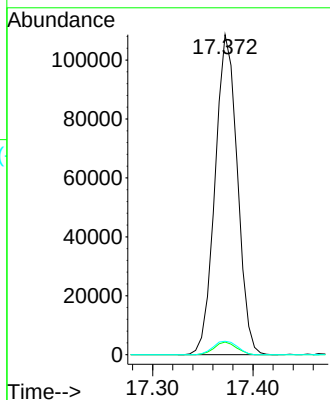
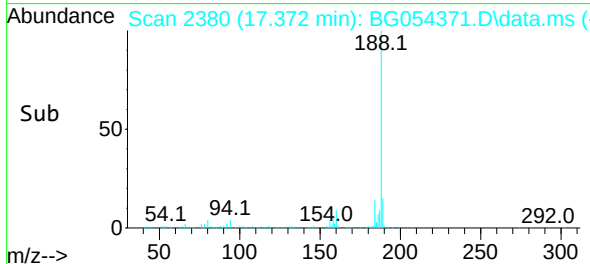
Instrument :  
BNA\_G  
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OR-03-072122



Tgt Ion:188 Resp: 167574  
Ion Ratio Lower Upper  
188 100  
94 4.0 5.4 8.0  
80 4.2 6.8 10.2

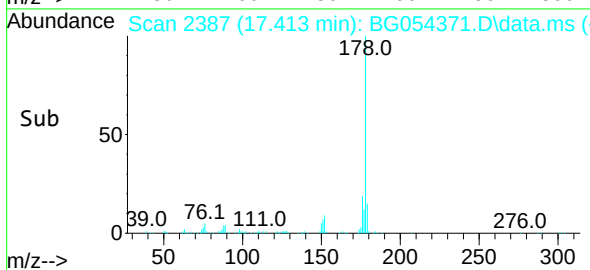
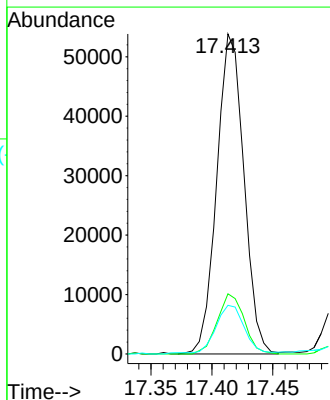
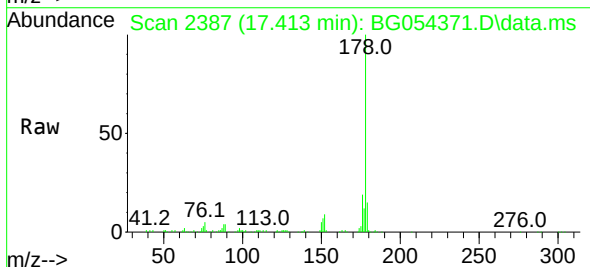
Manual Integrations  
APPROVED

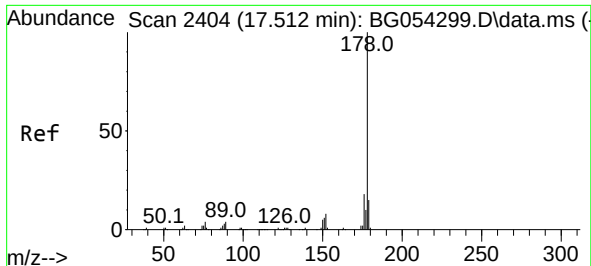
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022



#71  
Phenanthrene  
Concen: 9.984 ng  
RT: 17.413 min Scan# 2387  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

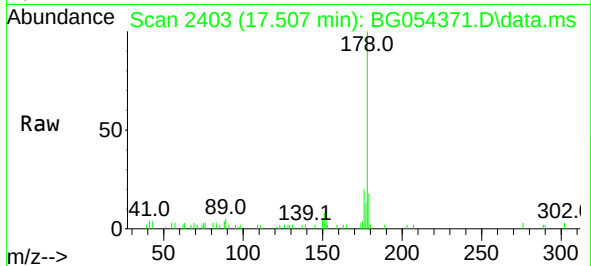
Tgt Ion:178 Resp: 83319  
Ion Ratio Lower Upper  
178 100  
176 18.8 14.1 21.1  
179 15.2 12.1 18.1





#72  
 Anthracene  
 Concen: 2.118 ng  
 RT: 17.507 min Scan# 2403  
 Delta R.T. -0.005 min  
 Lab File: BG054371.D  
 Acq: 22 Jul 2022 22:52

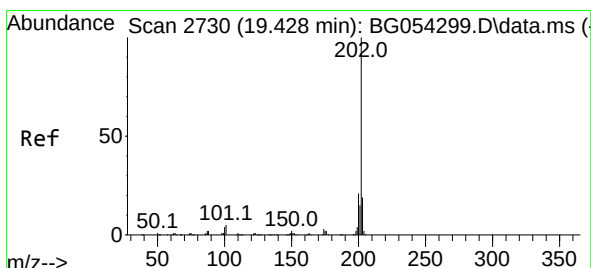
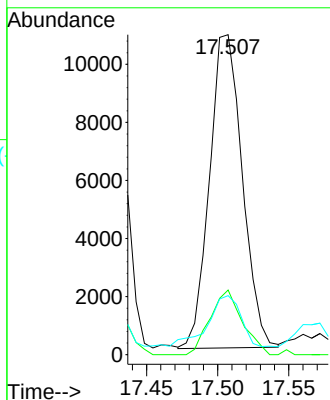
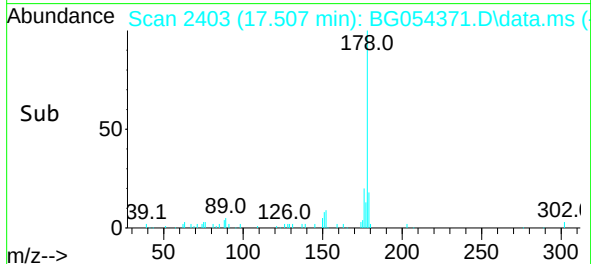
Instrument :  
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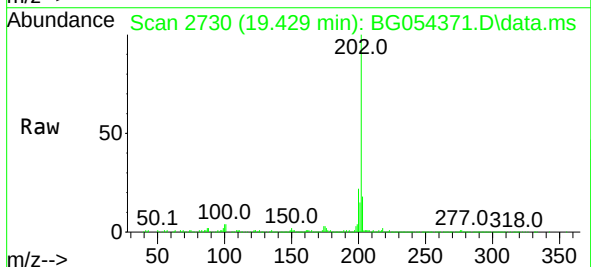
Tgt Ion:178 Resp: 1734  
 Ion Ratio Lower Upper  
 178 100  
 176 20.2 15.2 22.8  
 179 18.4 13.0 19.4

Manual Integrations  
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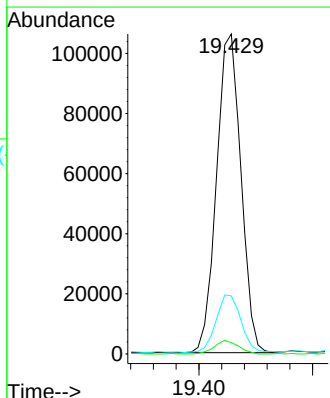
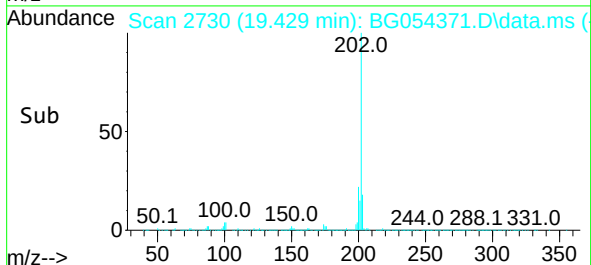
Reviewed By :Christian Giraldo 07/25/2022  
 Supervised By :Jagrut Upadhyay 07/25/2022



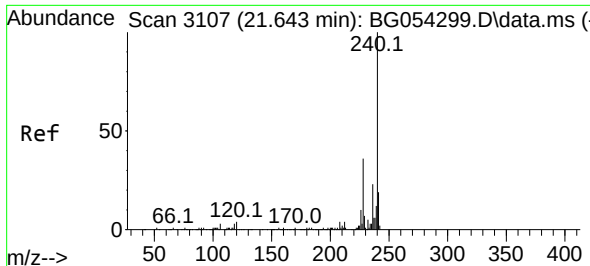
#75  
 Fluoranthene  
 Concen: 13.920 ng  
 RT: 19.429 min Scan# 2730  
 Delta R.T. 0.001 min  
 Lab File: BG054371.D  
 Acq: 22 Jul 2022 22:52



Tgt Ion:202 Resp: 158347  
 Ion Ratio Lower Upper  
 202 100  
 101 3.6 0.0 26.9  
 203 18.2 0.0 37.2

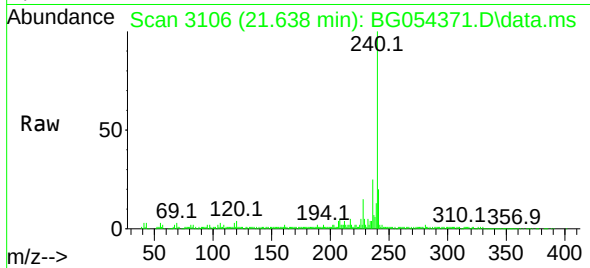






#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.638 min Scan# 3107  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

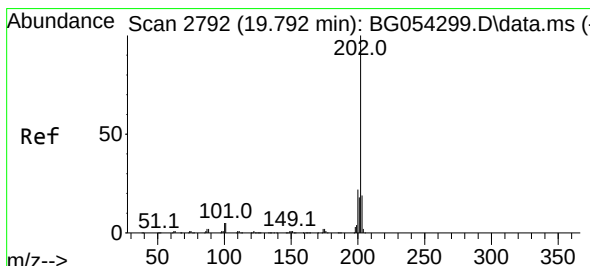
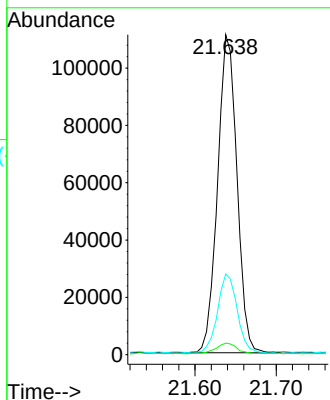
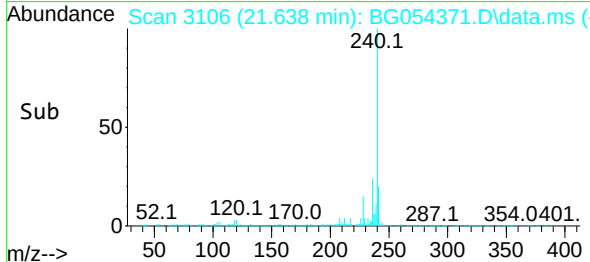
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-072122



Tgt Ion:240 Resp: 183964  
Ion Ratio Lower Upper  
240 100  
120 3.6 4.6 7.0  
236 25.2 20.2 30.4

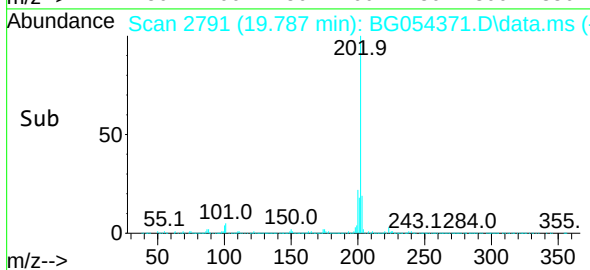
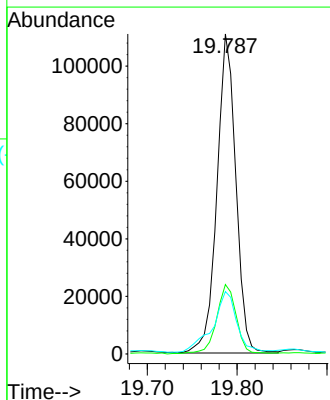
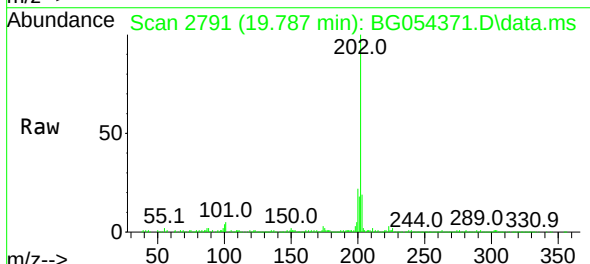
Manual Integrations  
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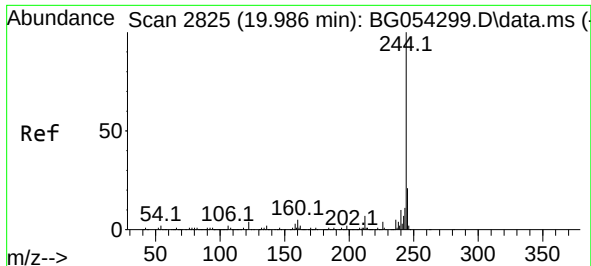
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022



#78  
Pyrene  
Concen: 15.354 ng  
RT: 19.787 min Scan# 2791  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

Tgt Ion:202 Resp: 162073  
Ion Ratio Lower Upper  
202 100  
200 21.7 16.6 24.8  
203 19.5 14.6 21.8





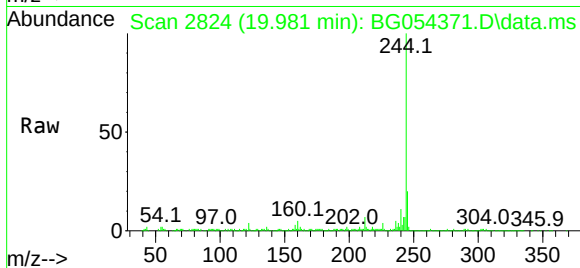
#79  
 Terphenyl-d14  
 Concen: 16.244 ng  
 RT: 19.981 min Scan# 21  
 Delta R.T. -0.005 min  
 Lab File: BG054371.D  
 Acq: 22 Jul 2022 22:52

Instrument :

BNA\_G

ClientSampleId :

OR-03-072122

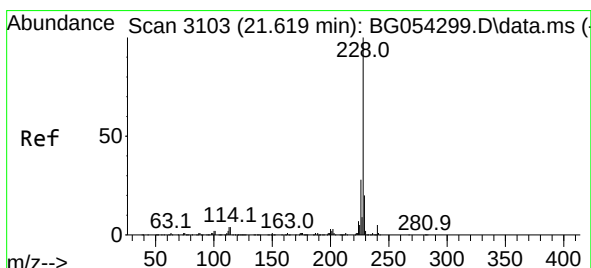
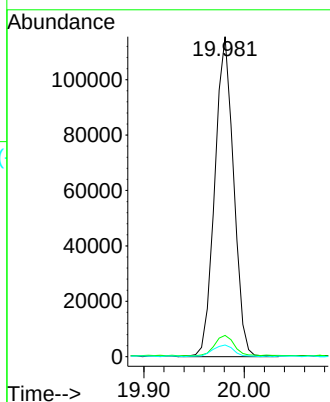
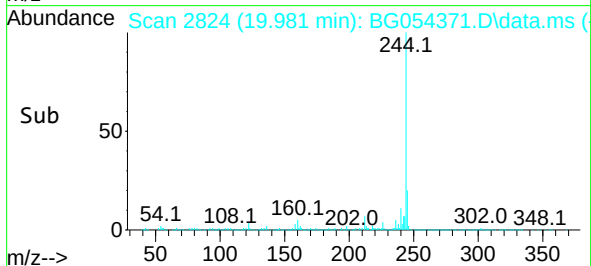


Tgt Ion:244 Resp: 150640  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 6.5 9.7  
 122 3.7 5.0 7.4

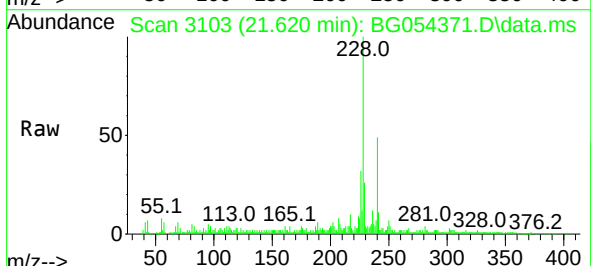
Manual Integrations

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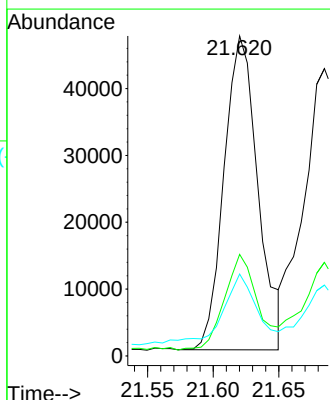
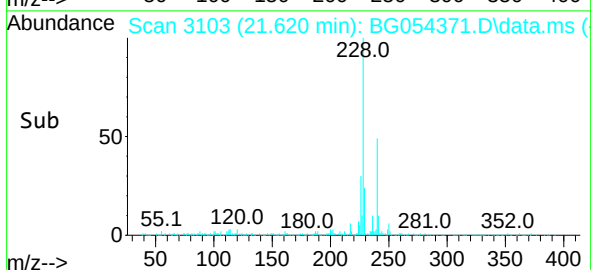
Reviewed By :Christian Giraldo 07/25/2022  
 Supervised By :Jagrut Upadhyay 07/25/2022

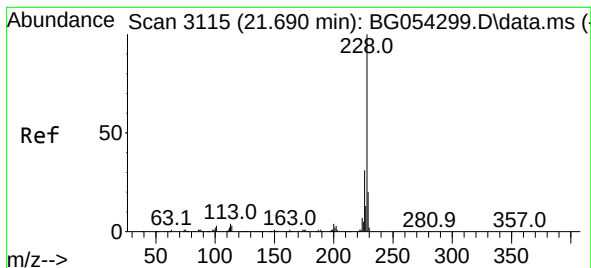


#81  
 Benzo(a)anthracene  
 Concen: 7.229 ng  
 RT: 21.620 min Scan# 3103  
 Delta R.T. 0.001 min  
 Lab File: BG054371.D  
 Acq: 22 Jul 2022 22:52



Tgt Ion:228 Resp: 84420  
 Ion Ratio Lower Upper  
 228 100  
 226 31.7 21.6 32.4  
 229 25.6 16.2 24.2





#83

Chrysene

Concen: 7.707 ng

RT: 21.685 min Scan# 3114

Delta R.T. -0.005 min

Lab File: BG054371.D

Acq: 22 Jul 2022 22:52

Instrument :

BNA\_G

ClientSampleId :

OR-03-072122

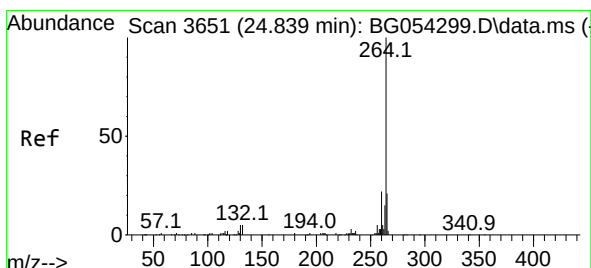
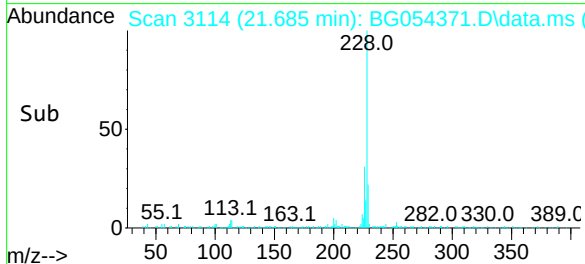
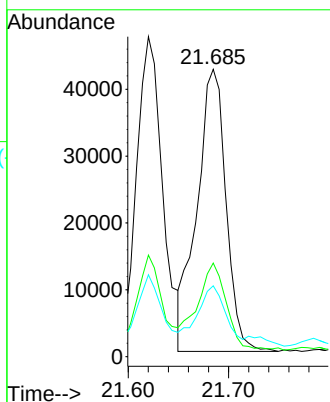
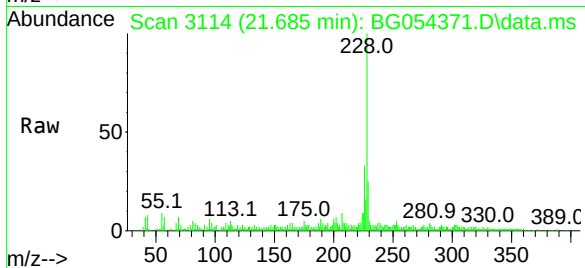
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 8503 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 32.6  | 23.4  | 35.2 |
| 229       | 24.7  | 15.5  | 23.3 |

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Supervised By :Jagrut Upadhyay 07/25/2022



#86

Perylene-d12

Concen: 20.000 ng

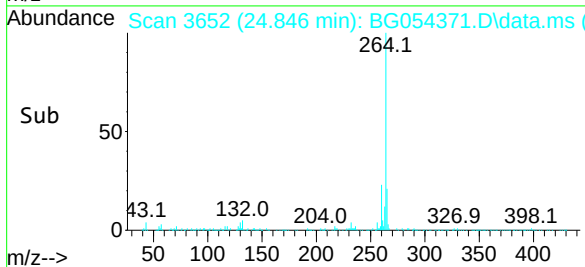
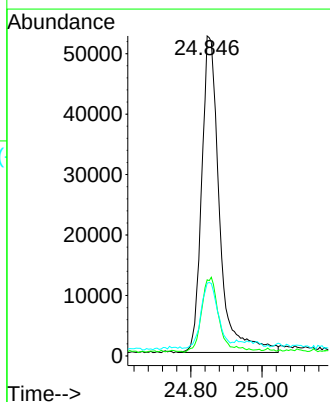
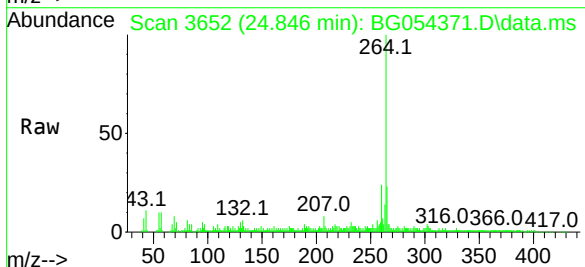
RT: 24.846 min Scan# 3652

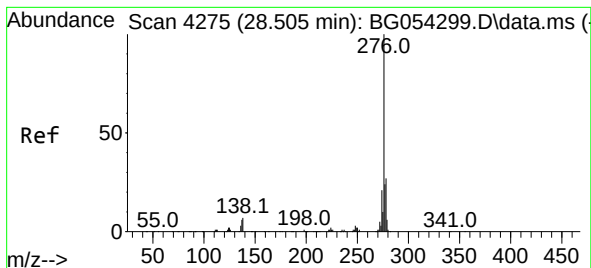
Delta R.T. 0.007 min

Lab File: BG054371.D

Acq: 22 Jul 2022 22:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 182667 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 19.0  | 28.6   |
| 265       | 22.8  | 17.4  | 26.2   |





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.028 ng

RT: 28.530 min Scan# 41

Delta R.T. 0.024 min

Lab File: BG054371.D

Acq: 22 Jul 2022 22:52

Instrument :

BNA\_G

ClientSampleId :

OR-03-072122

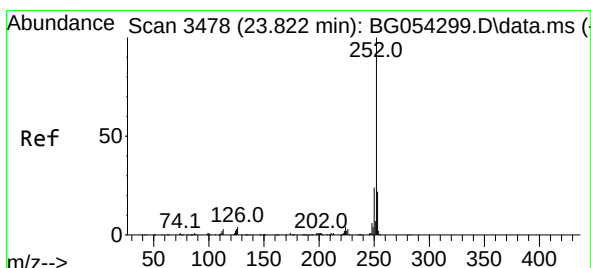
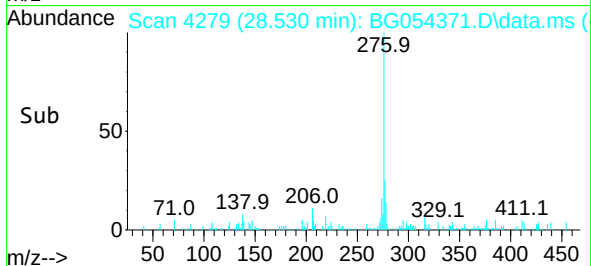
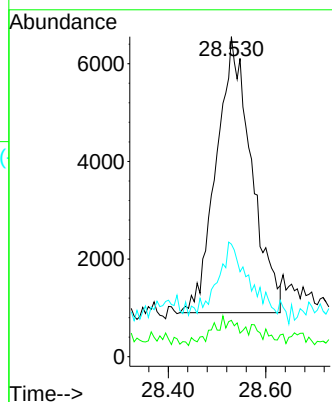
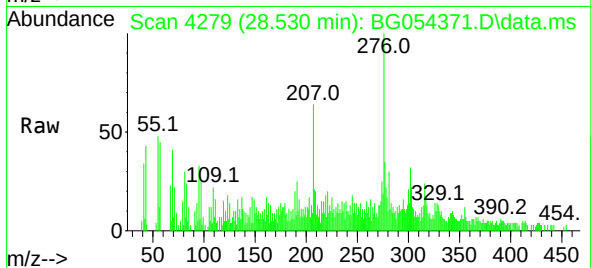
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 28170 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 0.4   | 5.0   | 7.4   |
| 277       | 23.8  | 20.3  | 30.5  |

Manual Integrations

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Supervised By :Jagrut Upadhyay 07/25/2022



#88

Benzo(b)fluoranthene

Concen: 8.831 ng m

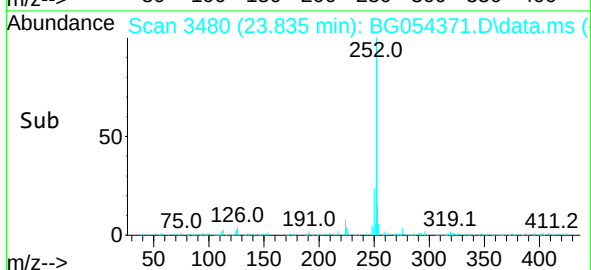
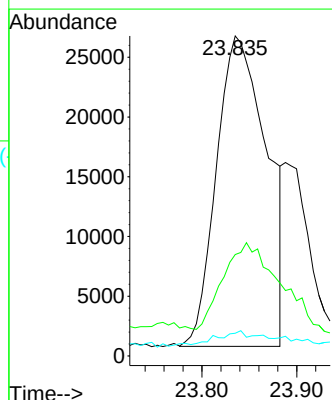
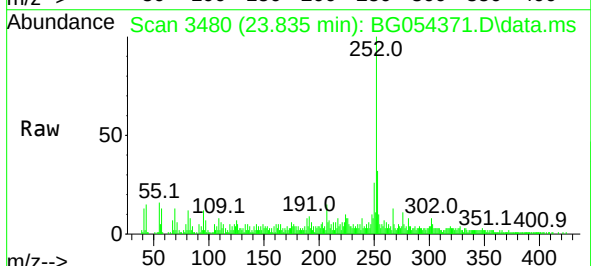
RT: 23.835 min Scan# 3480

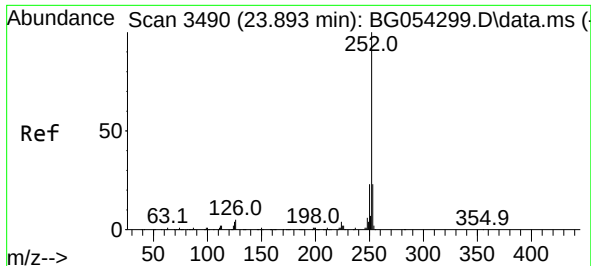
Delta R.T. 0.013 min

Lab File: BG054371.D

Acq: 22 Jul 2022 22:52

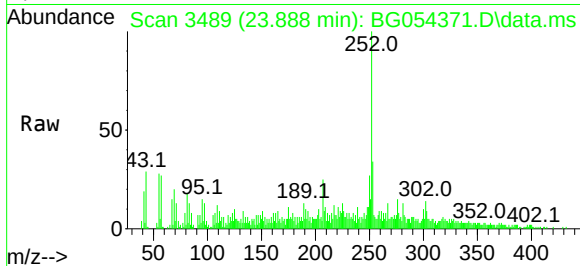
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 95400 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 31.7  | 18.0  | 27.0  |
| 125       | 7.1   | 4.6   | 6.8   |





#89  
Benzo(k)fluoranthene  
Concen: 2.877 ng m  
RT: 23.888 min Scan# 3490  
Delta R.T. -0.005 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52

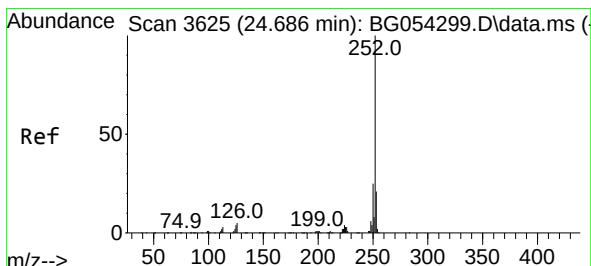
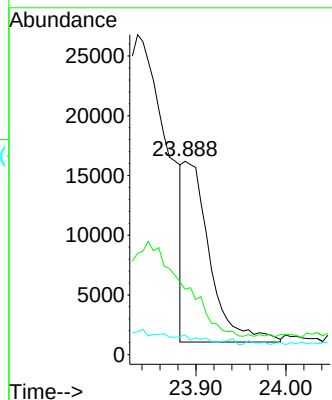
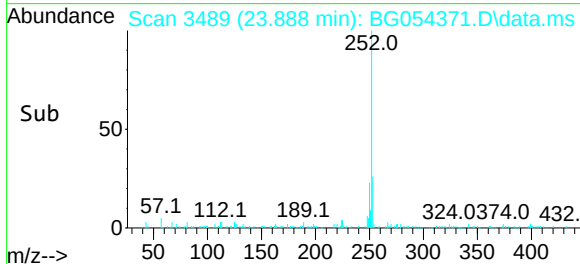
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-072122



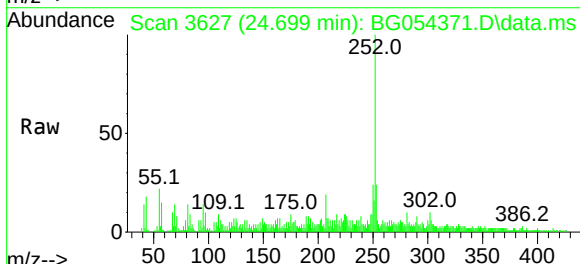
Tgt Ion:252 Resp: 30930  
Ion Ratio Lower Upper  
252 100  
253 33.9 18.4 27.6  
125 10.2 4.8 7.2

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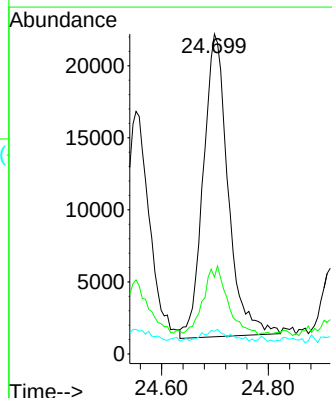
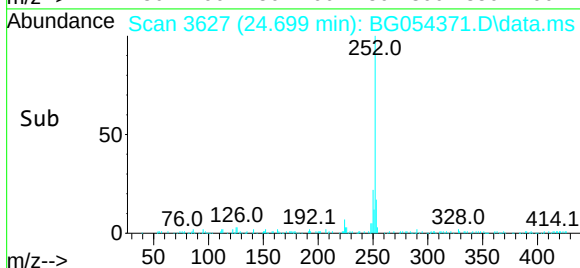
Reviewed By :Christian Giraldo 07/25/2022  
Supervised By :Jagrut Upadhyay 07/25/2022

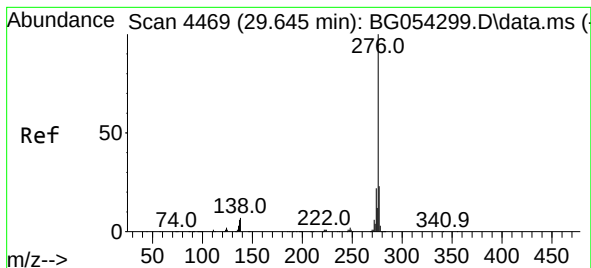


#90  
Benzo(a)pyrene  
Concen: 7.350 ng  
RT: 24.699 min Scan# 3627  
Delta R.T. 0.013 min  
Lab File: BG054371.D  
Acq: 22 Jul 2022 22:52



Tgt Ion:252 Resp: 67809  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.8 26.8  
125 7.1 4.3 6.5





#92

Benzo(g,h,i)perylene

Concen: 2.491 ng

RT: 29.681 min Scan# 44

Delta R.T. 0.036 min

Lab File: BG054371.D

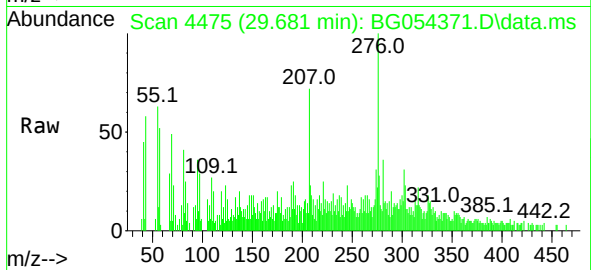
Acq: 22 Jul 2022 22:52

Instrument :

BNA\_G

ClientSampleId :

OR-03-072122



Tgt Ion:276 Resp: 2809

Ion Ratio Lower Upper

276 100

277 27.5 17.3 25.9

138 11.9 9.6 14.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 07/25/2022

