

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG022223\  
 Data File : BG056705.D  
 Acq On : 22 Feb 2023 20:02  
 Operator : CG/JU  
 Sample : 01636-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-02-022123

Quant Time: Feb 23 01:48:57 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG021523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 23 01:45:41 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 02/23/2023  
 Supervised By : Jagrut Upadhyay 02/23/2023

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.437  | 152  | 23147    | 20.000 | ng    | 0.01     |
| 21) Naphthalene-d8          | 11.275 | 136  | 91869    | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 15.035 | 164  | 58231    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.773 | 188  | 119544   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 22.092 | 240  | 96026    | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 25.647 | 264  | 69210    | 20.000 | ng    | 0.02     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.946  | 112  | 106200   | 74.651 | ng    | 0.01     |
| 7) Phenol-d6                | 7.556  | 99   | 149361   | 71.076 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.607  | 82   | 101715   | 56.689 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.516 | 330  | 57713    | 72.390 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.666 | 172  | 211456   | 48.626 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.335 | 244  | 285012   | 48.561 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 58) Fluorene                | 16.075 | 166  | 11744    | 2.513  | ng    | 87       |
| 71) Phenanthrene            | 17.815 | 178  | 99901    | 15.360 | ng    | 99       |
| 72) Anthracene              | 17.909 | 178  | 28536m   | 4.288  | ng    |          |
| 75) Fluoranthene            | 19.800 | 202  | 193943   | 22.600 | ng    | 98       |
| 78) Pyrene                  | 20.165 | 202  | 173593   | 23.937 | ng    | 99       |
| 81) Benzo(a)anthracene      | 22.068 | 228  | 94905    | 13.290 | ng    | 94       |
| 83) Chrysene                | 22.145 | 228  | 85616    | 12.825 | ng    | # 96     |
| 88) Benzo(b)fluoranthene    | 24.513 | 252  | 82597    | 18.267 | ng    | # 85     |
| 89) Benzo(k)fluoranthene    | 24.565 | 252  | 51349m   | 11.548 | ng    |          |
| 90) Benzo(a)pyrene          | 25.476 | 252  | 59723    | 13.741 | ng    | # 93     |
| 92) Benzo(g,h,i)perylene    | 31.040 | 276  | 19348m   | 4.411  | ng    |          |
| -----                       |        |      |          |        |       |          |

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

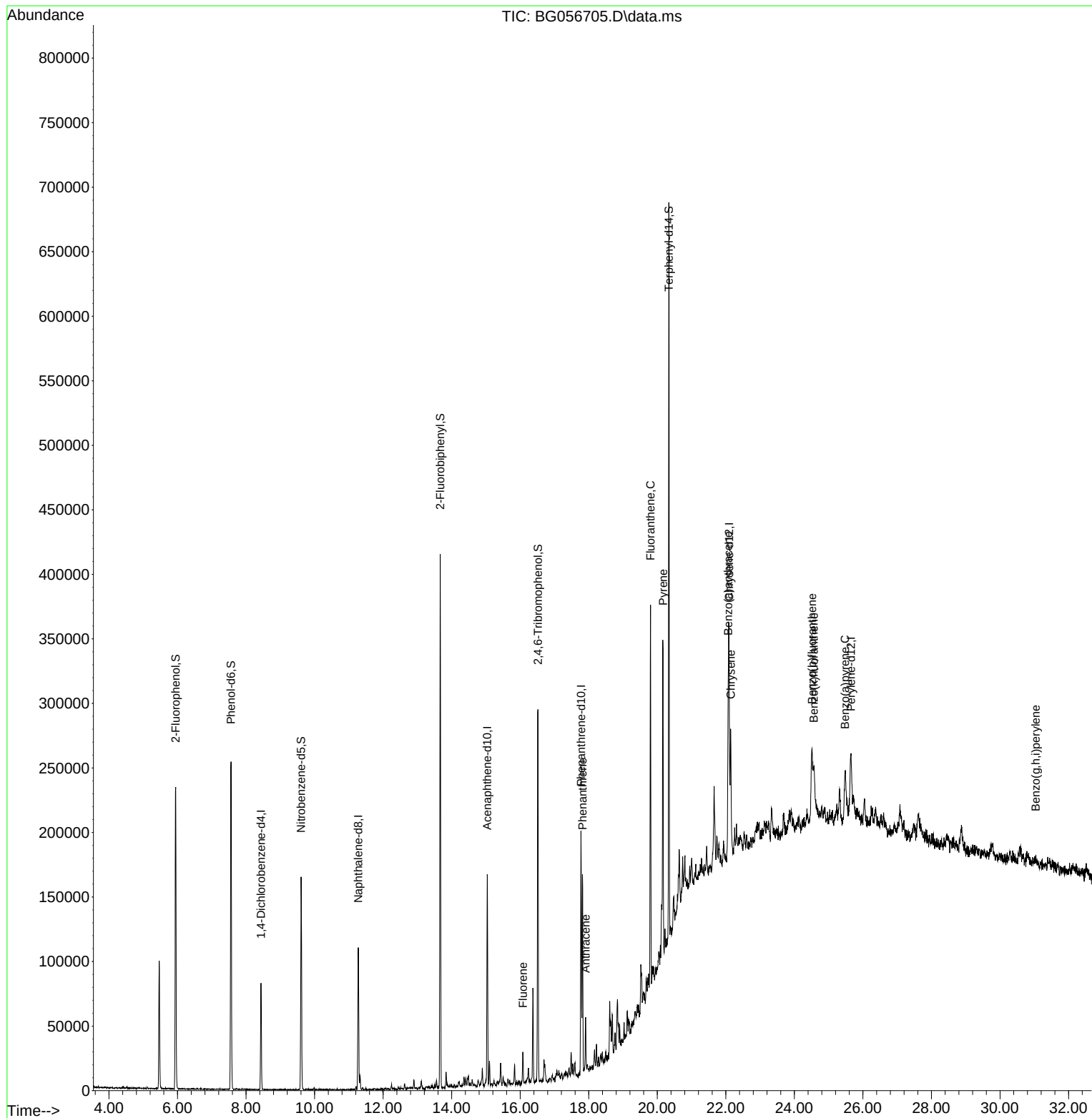
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG022223\  
Data File : BG056705.D  
Acq On : 22 Feb 2023 20:02  
Operator : CG/JU  
Sample : 01636-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

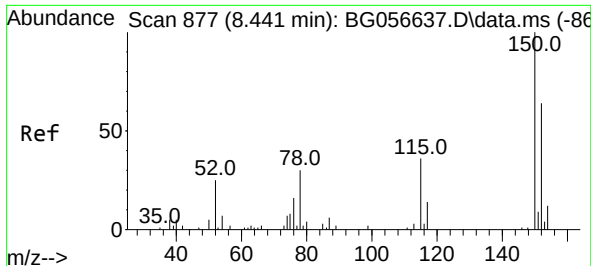
Instrument :  
BNA\_G  
ClientSampleId :  
OR-02-022123

Quant Time: Feb 23 01:48:57 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG021523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 23 01:45:41 2023  
Response via : Initial Calibration

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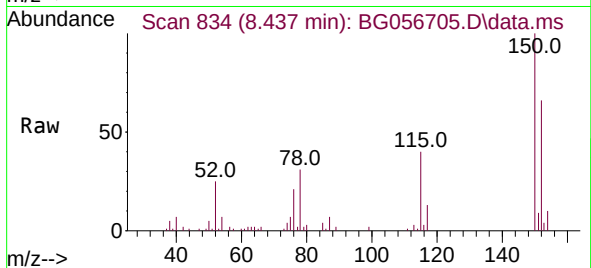
Reviewed By : Christian Giraldo 02/23/2023  
Supervised By : Jagrut Upadhyay 02/23/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.437 min Scan# 81  
Delta R.T. 0.010 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

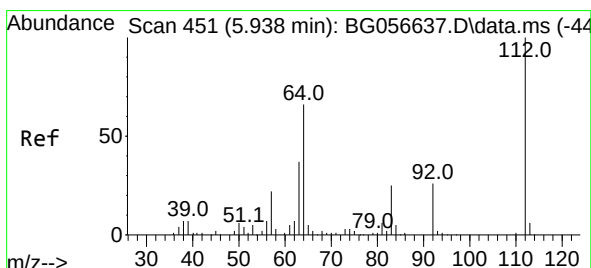
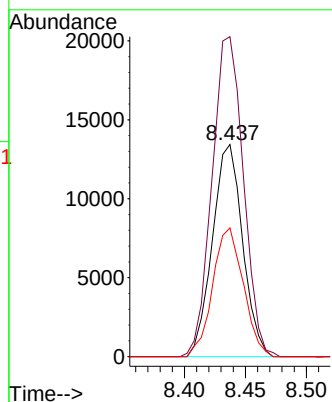
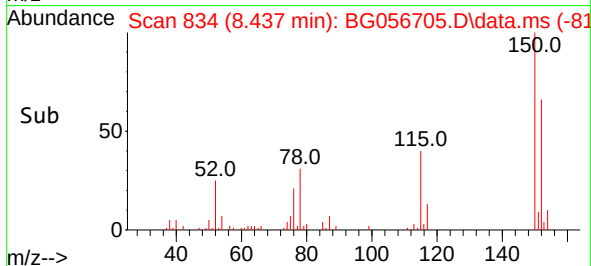
Instrument :  
BNA\_G  
ClientSampleId :  
OR-02-022123



Tgt Ion:152 Resp: 2314  
Ion Ratio Lower Upper  
152 100  
150 150.8 124.8 187.2  
115 60.7 44.7 67.1

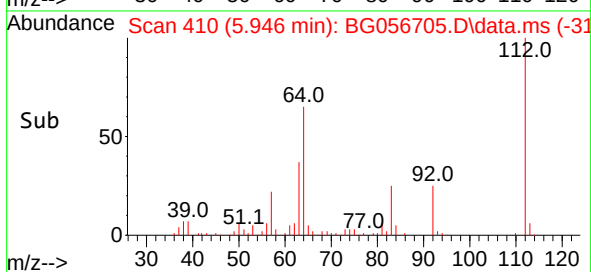
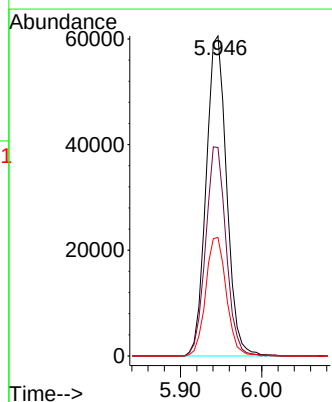
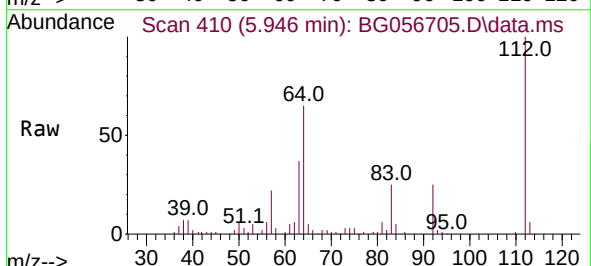
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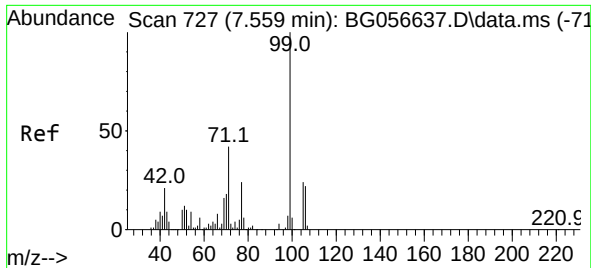
Reviewed By :Christian Giraldo 02/23/2023  
Supervised By :Jagrut Upadhyay 02/23/2023



#5  
2-Fluorophenol  
Concen: 74.651 ng  
RT: 5.946 min Scan# 410  
Delta R.T. 0.011 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

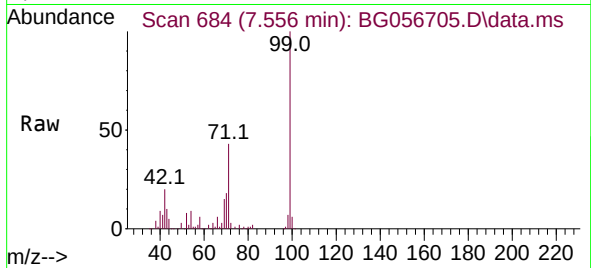
Tgt Ion:112 Resp: 106200  
Ion Ratio Lower Upper  
112 100  
64 65.1 52.6 78.8  
63 37.0 29.8 44.6





#7  
Phenol-d6  
Concen: 71.076 ng  
RT: 7.556 min Scan# 681  
Delta R.T. -0.001 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

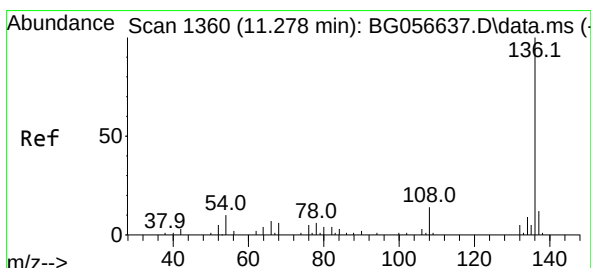
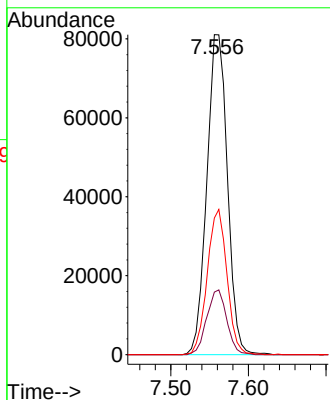
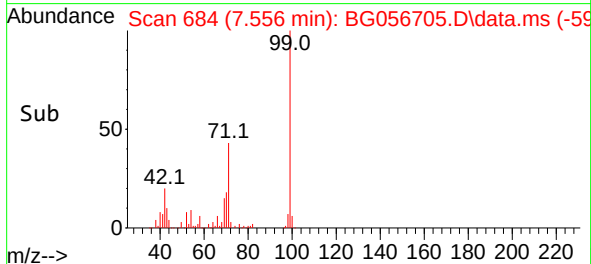
Instrument :  
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ClientSampleId :  
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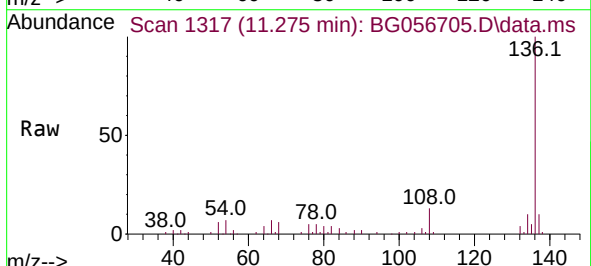
Tgt Ion: 99 Resp: 149361  
Ion Ratio Lower Upper  
99 100  
42 19.5 16.8 25.2  
71 42.7 33.9 50.9

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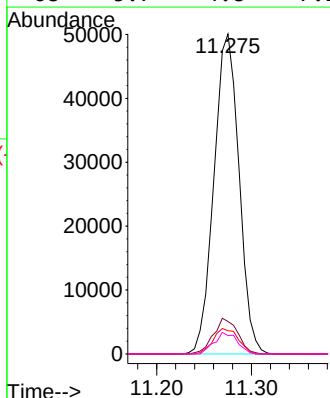
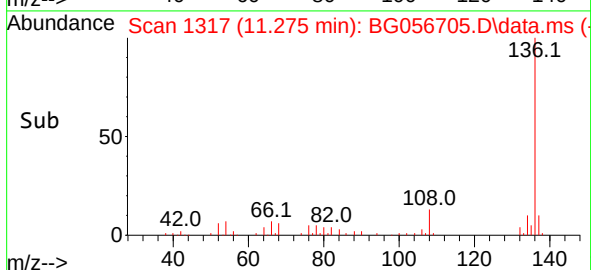
Reviewed By :Christian Giraldo 02/23/2023  
Supervised By :Jagrut Upadhyay 02/23/2023

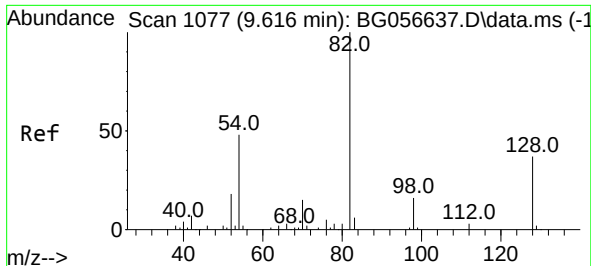


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.275 min Scan# 1317  
Delta R.T. 0.005 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02



Tgt Ion:136 Resp: 91869  
Ion Ratio Lower Upper  
136 100  
137 10.1 9.7 14.5  
54 7.2 7.7 11.5#  
68 5.7 4.8 7.2





#23

Nitrobenzene-d5

Concen: 56.689 ng

RT: 9.607 min Scan# 1077

Delta R.T. 0.005 min

Lab File: BG056705.D

Acq: 22 Feb 2023 20:02

Instrument :

BNA\_G

ClientSampleId :

OR-02-022123

Tgt Ion: 82 Resp: 101715

Ion Ratio Lower Upper

82 100

128 35.2 29.4 44.2

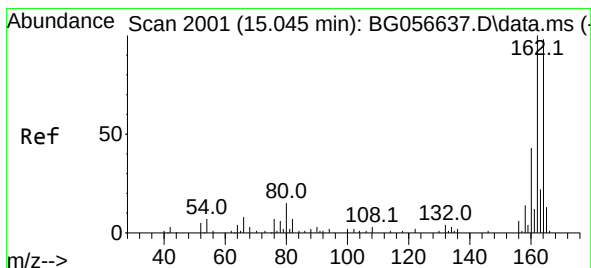
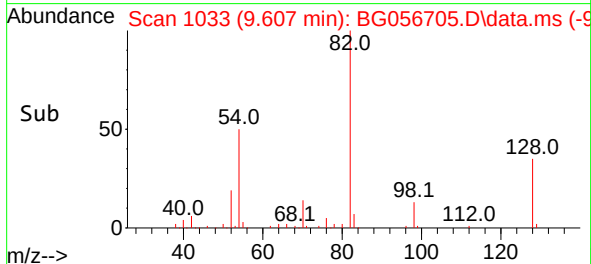
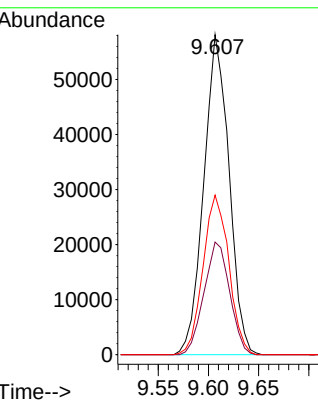
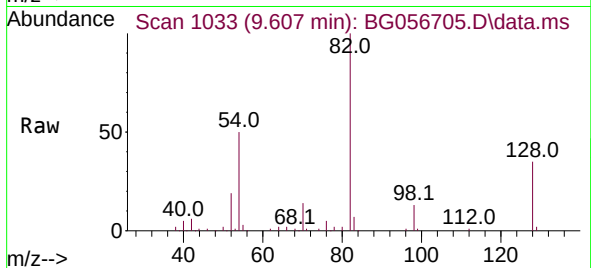
54 49.8 37.8 56.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 02/23/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.035 min Scan# 1957

Delta R.T. -0.001 min

Lab File: BG056705.D

Acq: 22 Feb 2023 20:02

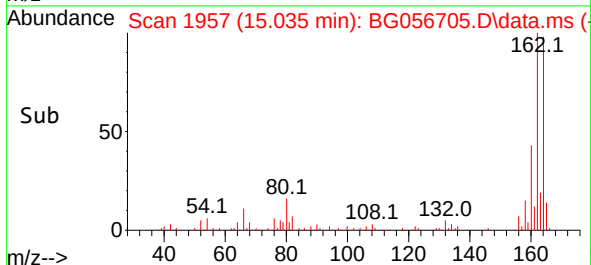
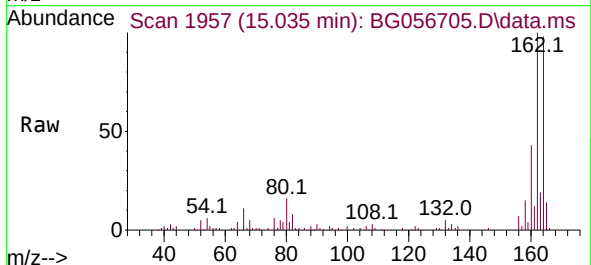
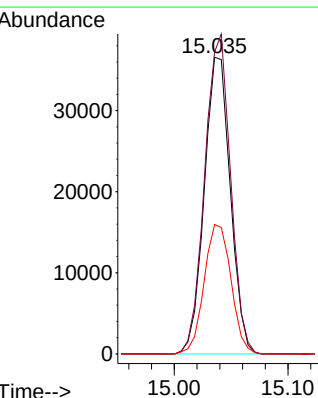
Tgt Ion:164 Resp: 58231

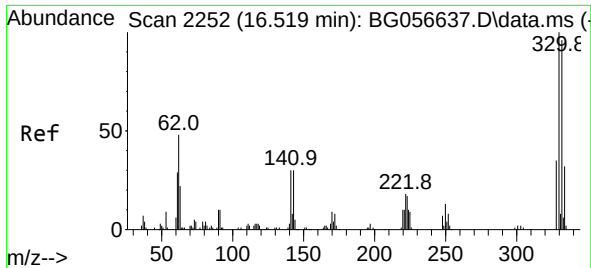
Ion Ratio Lower Upper

164 100

162 101.8 81.3 121.9

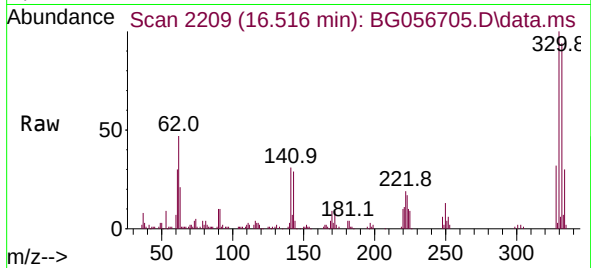
160 43.6 35.2 52.8





#42  
2,4,6-Tribromophenol  
Concen: 72.390 ng  
RT: 16.516 min Scan# 21  
Delta R.T. 0.005 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

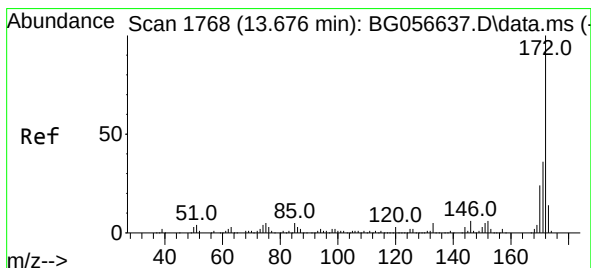
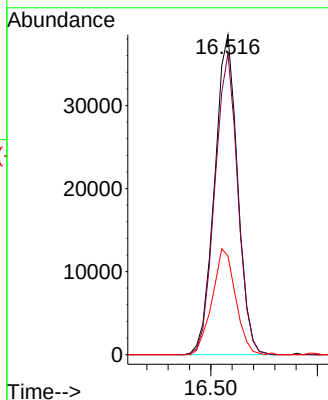
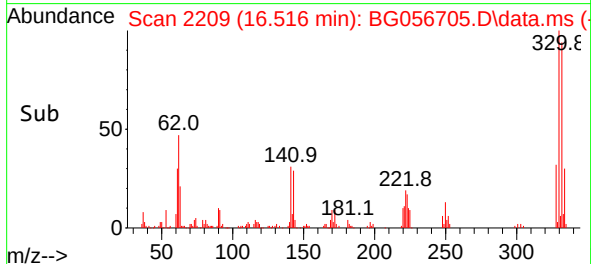
Instrument :  
BNA\_G  
ClientSampleId :  
OR-02-022123



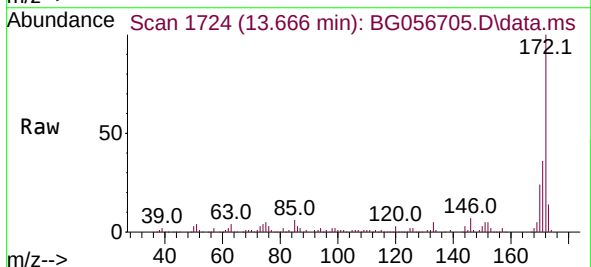
Tgt Ion:330 Resp: 57713  
Ion Ratio Lower Upper  
330 100  
332 93.8 75.7 113.5  
141 33.6 24.6 37.0

Manual Integrations  
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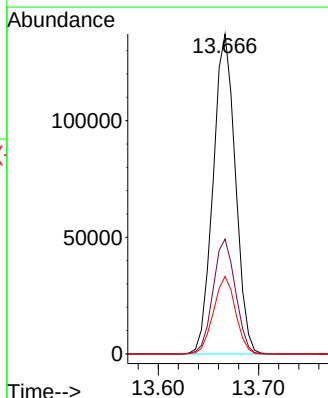
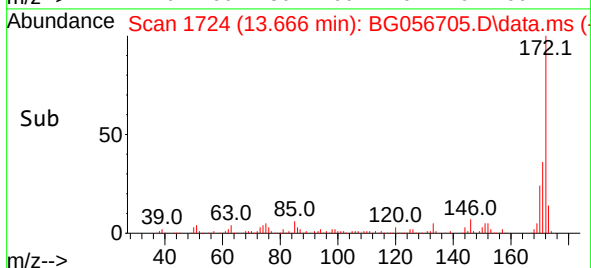
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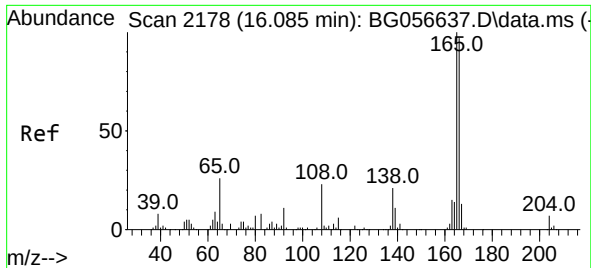


#45  
2-Fluorobiphenyl  
Concen: 48.626 ng  
RT: 13.666 min Scan# 1724  
Delta R.T. -0.001 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02



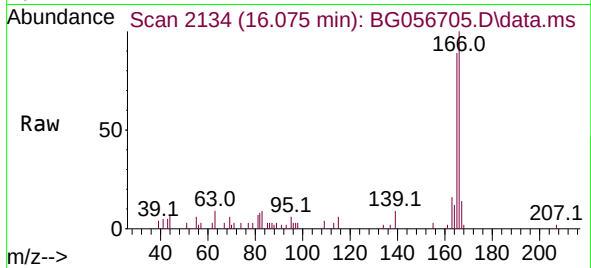
Tgt Ion:172 Resp: 211456  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.6 43.0  
170 24.2 19.4 29.0





#58  
Fluorene  
Concen: 2.513 ng  
RT: 16.075 min Scan# 2178  
Delta R.T. -0.001 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

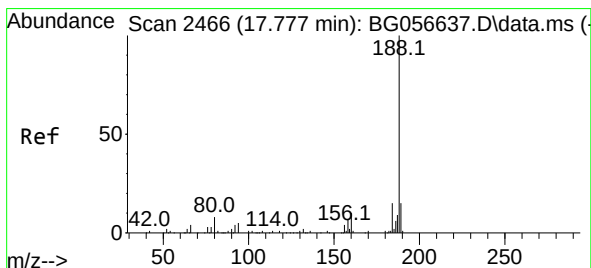
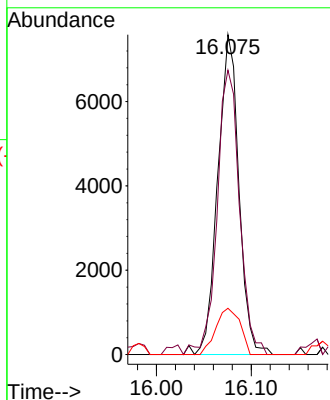
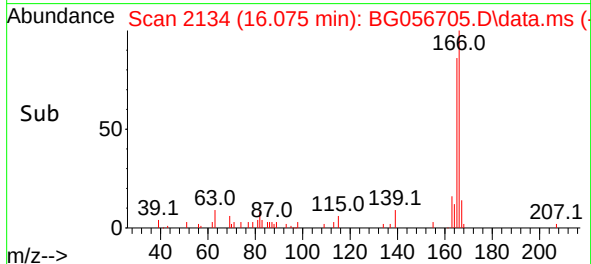
Instrument :  
BNA\_G  
ClientSampleId :  
OR-02-022123



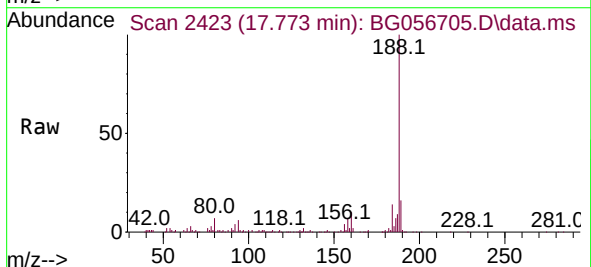
Tgt Ion:166 Resp: 11744  
Ion Ratio Lower Upper  
166 100  
165 88.9 82.9 124.3  
167 14.5 11.1 16.7

Manual Integrations  
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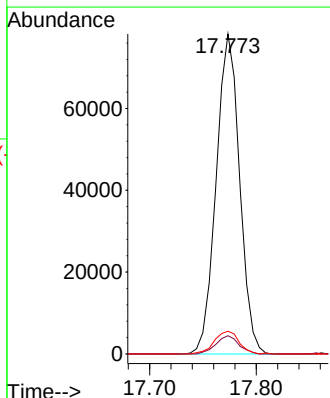
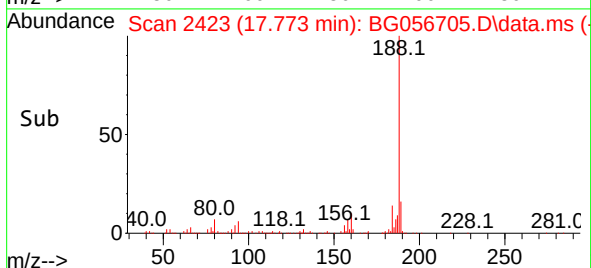
Reviewed By :Christian Giraldo 02/23/2023  
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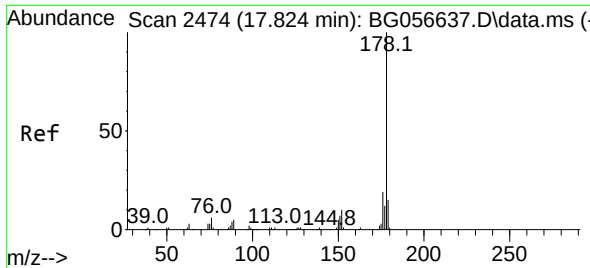


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.773 min Scan# 2423  
Delta R.T. -0.001 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02



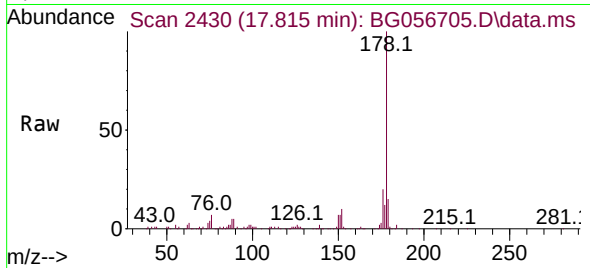
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Ion Ratio Lower Upper  
188 100  
94 5.7 4.0 6.0  
80 7.1 6.3 9.5





#71  
Phenanthrene  
Concen: 15.360 ng  
RT: 17.815 min Scan# 2446  
Delta R.T. -0.001 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

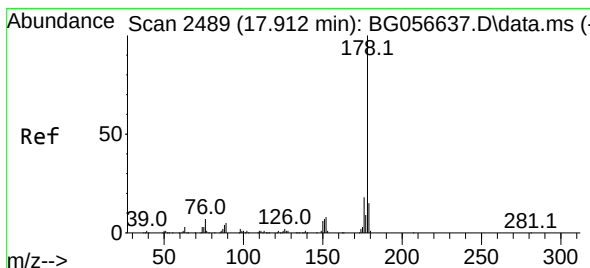
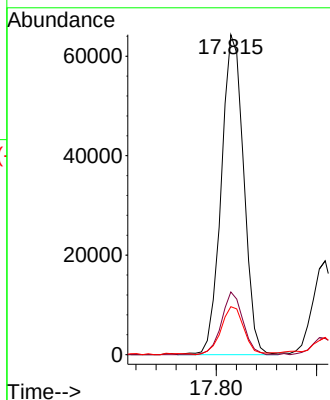
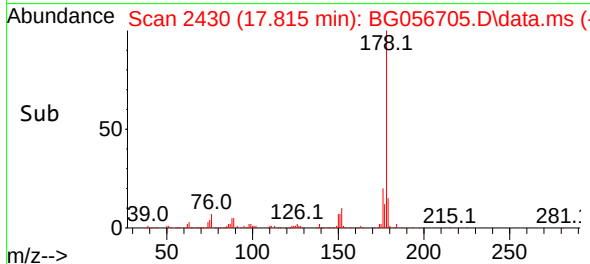
Instrument :  
BNA\_G  
ClientSampleId :  
OR-02-022123



Tgt Ion:178 Resp: 99901  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.2  
179 15.0 12.2 18.4

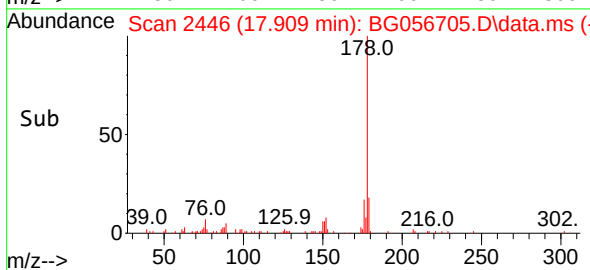
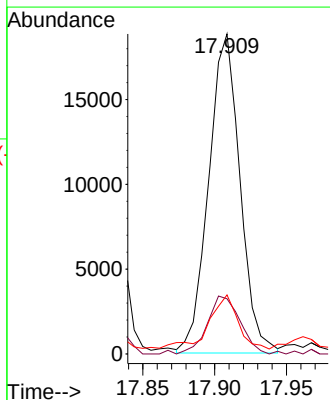
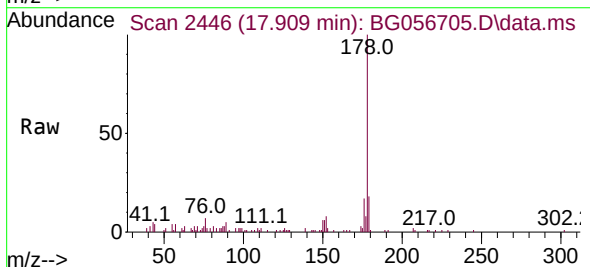
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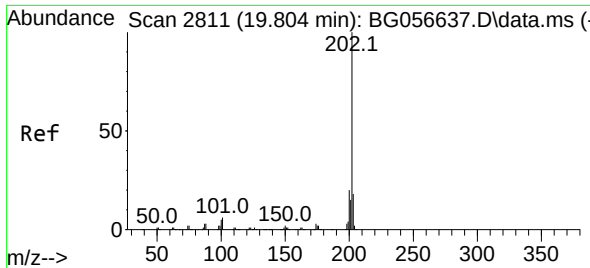


#72  
Anthracene  
Concen: 4.288 ng m  
RT: 17.909 min Scan# 2446  
Delta R.T. 0.005 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

Tgt Ion:178 Resp: 28536  
Ion Ratio Lower Upper  
178 100  
176 17.2 14.3 21.5  
179 18.4 12.2 18.4#







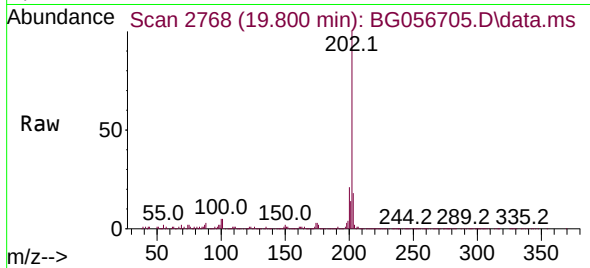
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Fluoranthene  
Concen: 22.600 ng  
RT: 19.800 min Scan# 21  
Delta R.T. 0.005 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

Instrument :

BNA\_G

ClientSampleId :

OR-02-022123

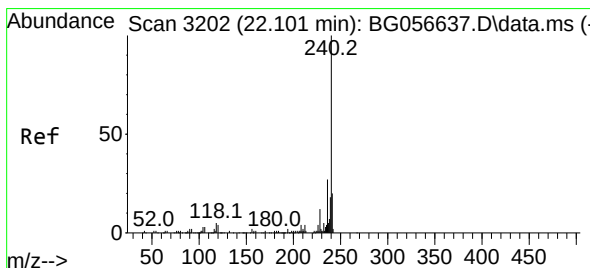
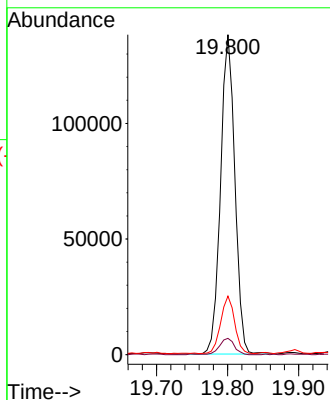
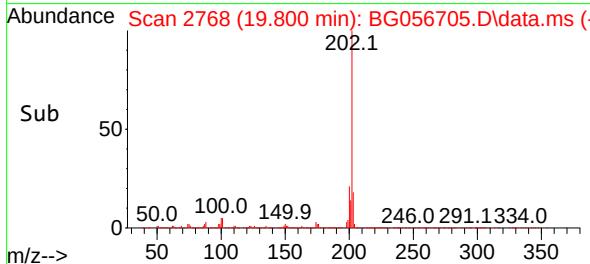


Tgt Ion:202 Resp: 193943  
Ion Ratio Lower Upper  
202 100  
101 5.1 0.0 25.8  
203 18.3 0.0 37.6

Manual Integrations

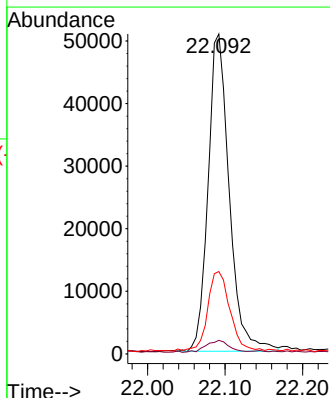
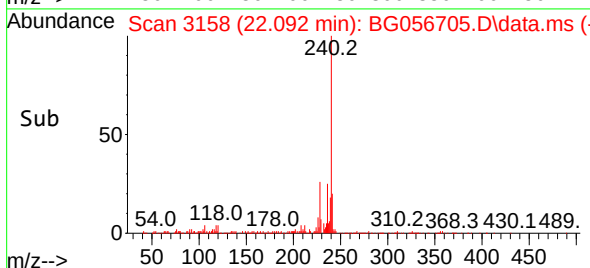
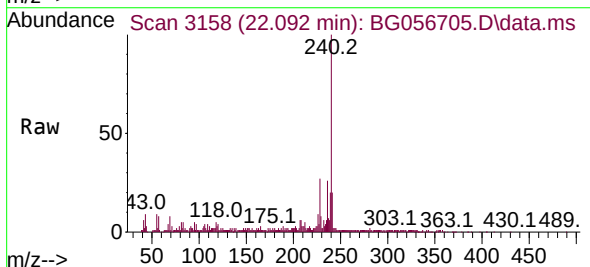
APPROVED

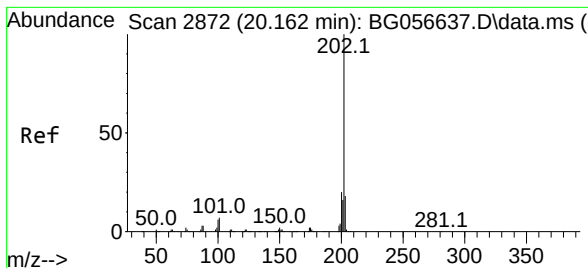
Reviewed By :Christian Giraldo 02/23/2023  
Supervised By :Jagrut Upadhyay 02/23/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.092 min Scan# 3158  
Delta R.T. 0.005 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

Tgt Ion:240 Resp: 96026  
Ion Ratio Lower Upper  
240 100  
120 4.2 3.5 5.3  
236 25.7 21.5 32.3





#78

Pyrene

Concen: 23.937 ng

RT: 20.165 min Scan# 2872

Delta R.T. 0.005 min

Lab File: BG056705.D

Acq: 22 Feb 2023 20:02

Instrument :

BNA\_G

ClientSampleId :

OR-02-022123

Tgt Ion:202 Resp: 173593

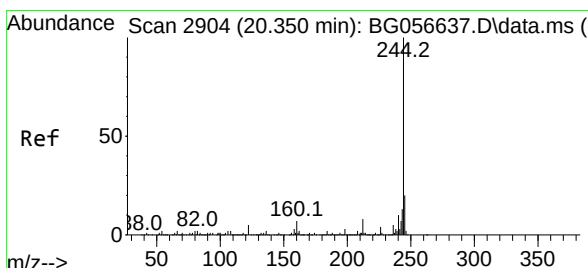
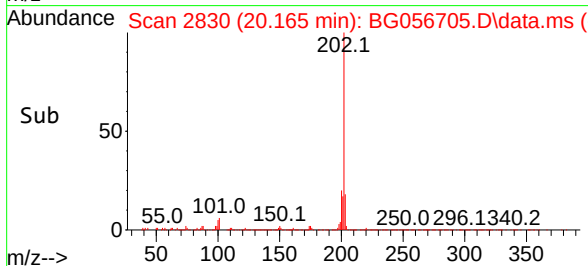
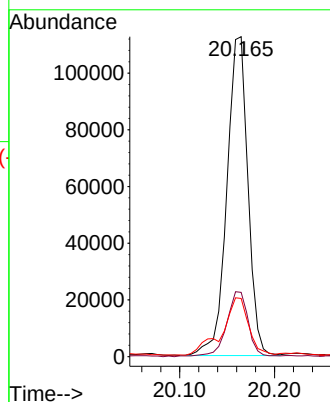
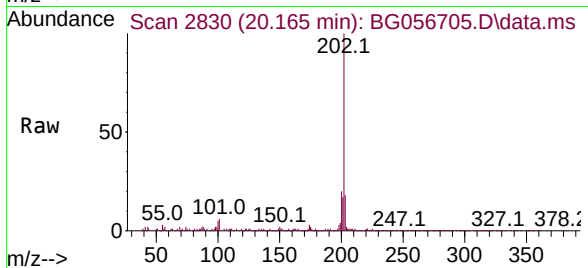
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 20.1  | 15.8  | 23.8  |
| 203 | 18.2  | 14.2  | 21.4  |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/23/2023

Supervised By :Jagrut Upadhyay 02/23/2023



#79

Terphenyl-d14

Concen: 48.561 ng

RT: 20.335 min Scan# 2859

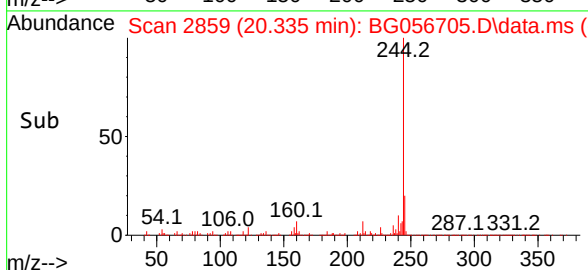
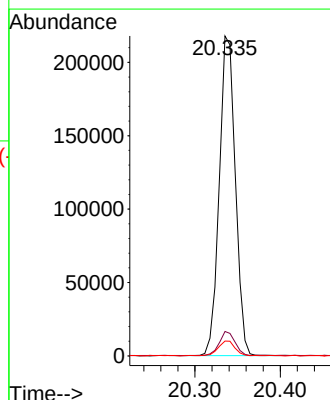
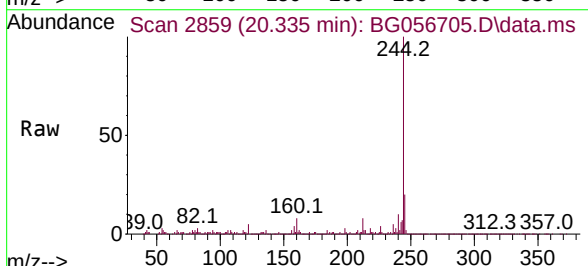
Delta R.T. -0.001 min

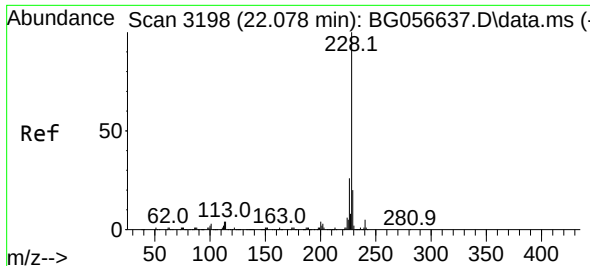
Lab File: BG056705.D

Acq: 22 Feb 2023 20:02

Tgt Ion:244 Resp: 285012

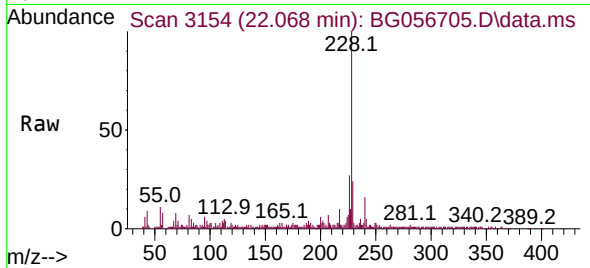
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.6   | 6.0   | 9.0   |
| 122 | 4.6   | 3.8   | 5.8   |





#81  
Benzo(a)anthracene  
Concen: 13.290 ng  
RT: 22.068 min Scan# 3198  
Delta R.T. 0.005 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

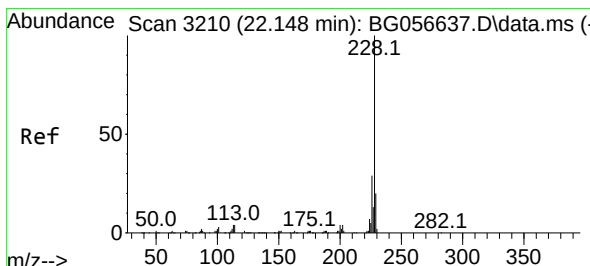
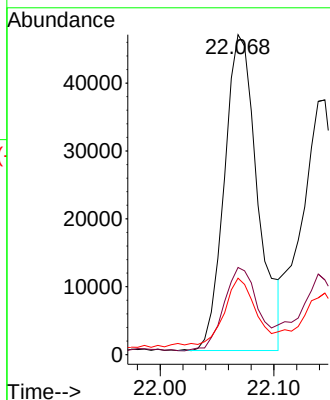
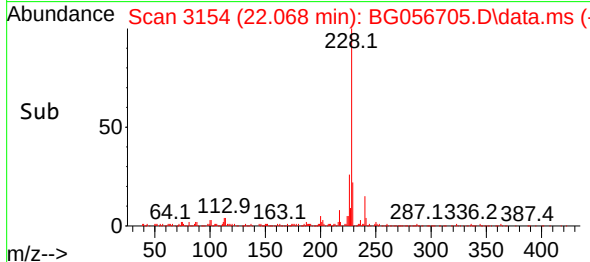
Instrument :  
BNA\_G  
ClientSampleId :  
OR-02-022123



Tgt Ion:228 Resp: 94905  
Ion Ratio Lower Upper  
228 100  
226 27.3 20.4 30.6  
229 23.9 16.0 24.0

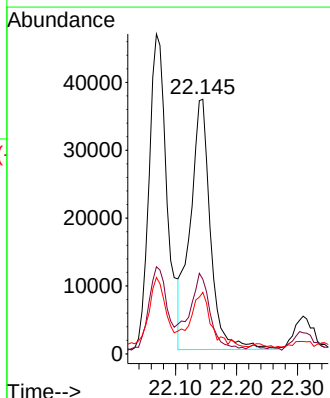
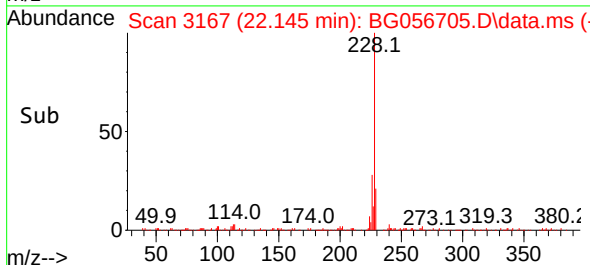
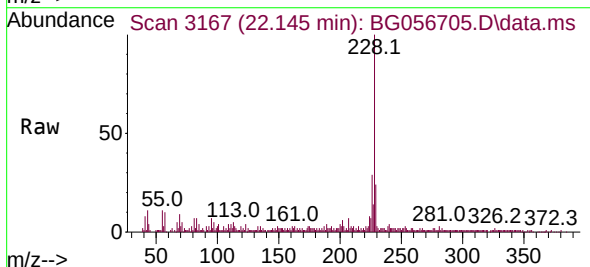
Manual Integrations  
APPROVED

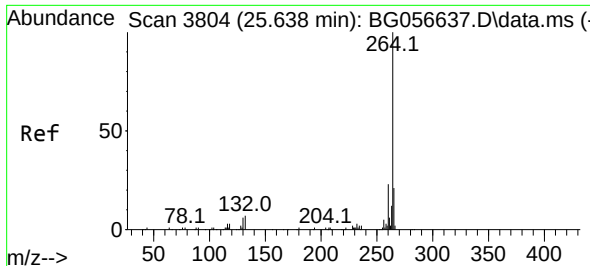
Reviewed By :Christian Giraldo 02/23/2023  
Supervised By :Jagrut Upadhyay 02/23/2023



#83  
Chrysene  
Concen: 12.825 ng  
RT: 22.145 min Scan# 3167  
Delta R.T. 0.005 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

Tgt Ion:228 Resp: 85616  
Ion Ratio Lower Upper  
228 100  
226 29.3 23.0 34.6  
229 24.2 15.8 23.8#





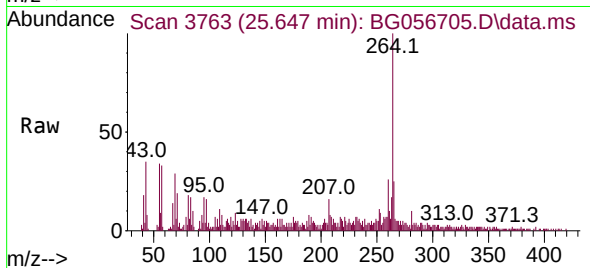
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.647 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

Instrument :

BNA\_G

ClientSampleId :

OR-02-022123

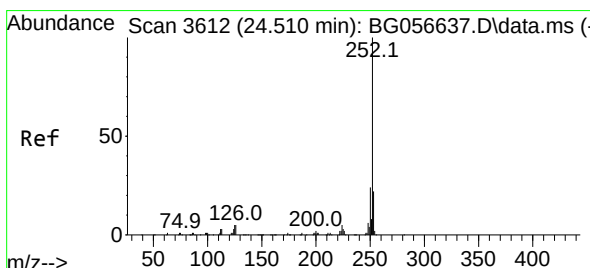
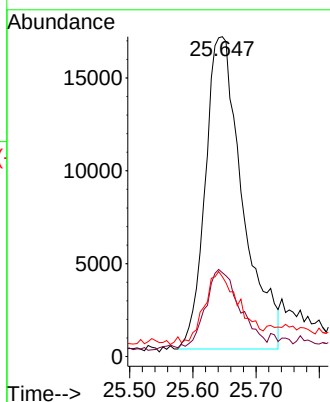
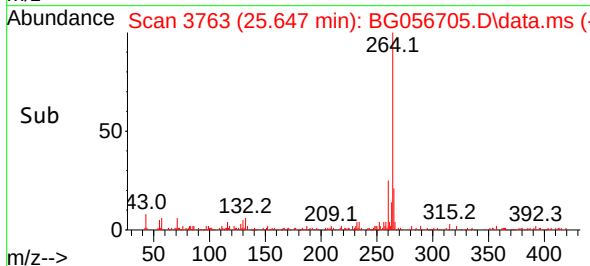


Tgt Ion:264 Resp: 69210  
Ion Ratio Lower Upper  
264 100  
260 26.2 18.6 27.8  
265 25.0 17.0 25.4

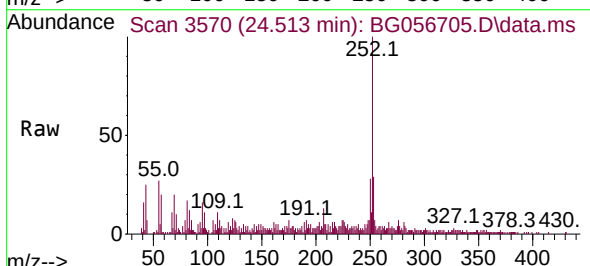
Manual Integrations

APPROVED

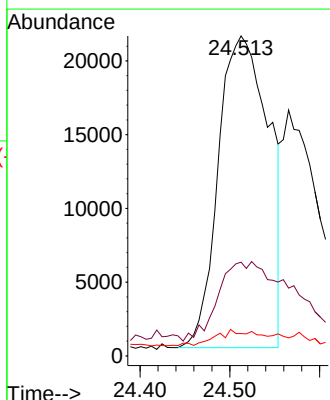
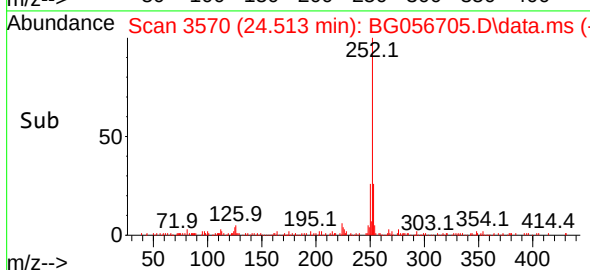
Reviewed By :Christian Giraldo 02/23/2023  
Supervised By :Jagrut Upadhyay 02/23/2023

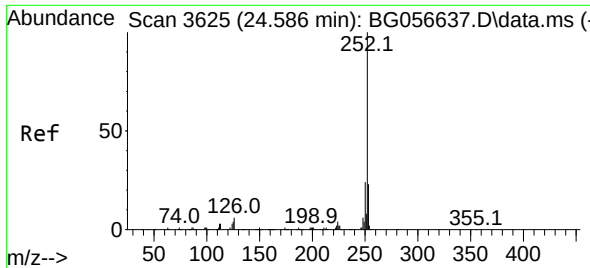


#88  
Benzo(b)fluoranthene  
Concen: 18.267 ng  
RT: 24.513 min Scan# 3570  
Delta R.T. 0.017 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02



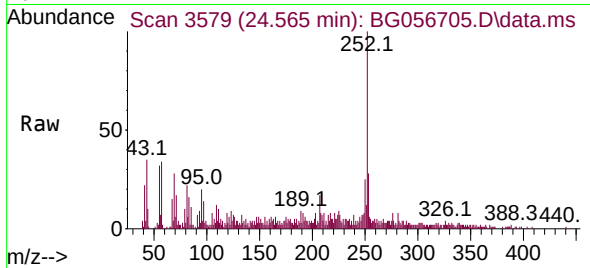
Tgt Ion:252 Resp: 82597  
Ion Ratio Lower Upper  
252 100  
253 29.3 17.3 25.9#  
125 7.0 3.7 5.5#





#89  
Benzo(k)fluoranthene  
Concen: 11.548 ng m  
RT: 24.565 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

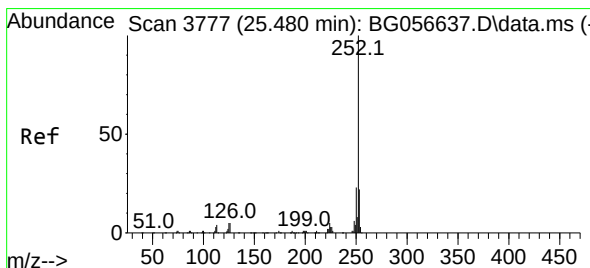
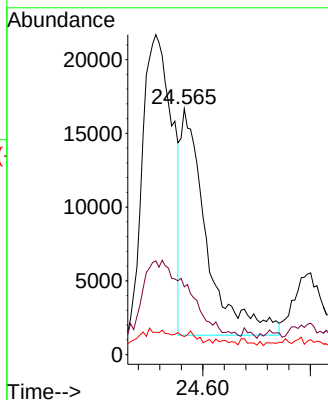
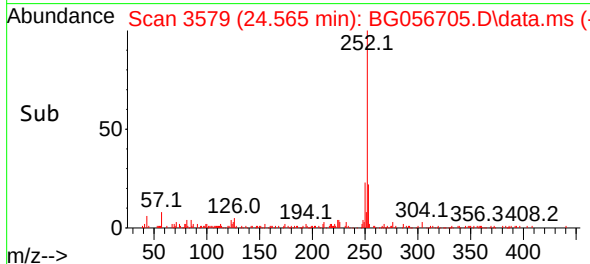
Instrument :  
BNA\_G  
ClientSampleId :  
OR-02-022123



Tgt Ion:252 Resp: 51349  
Ion Ratio Lower Upper  
252 100  
253 27.6 18.5 27.7  
125 7.3 3.4 5.0

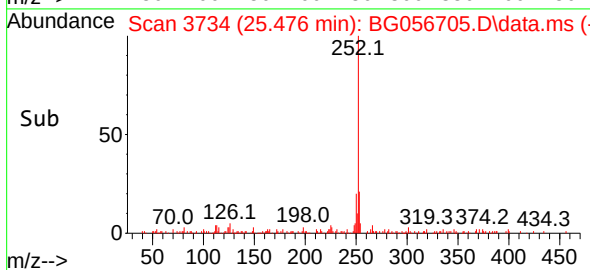
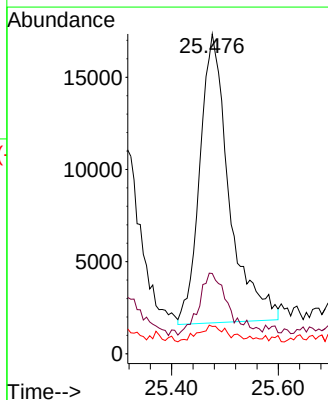
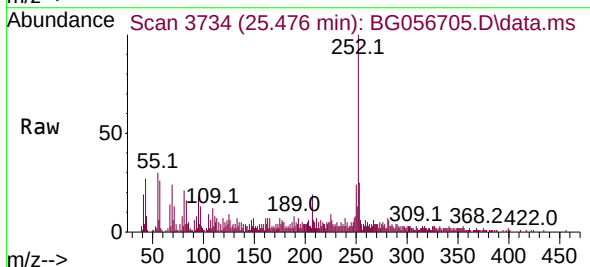
Manual Integrations  
APPROVED

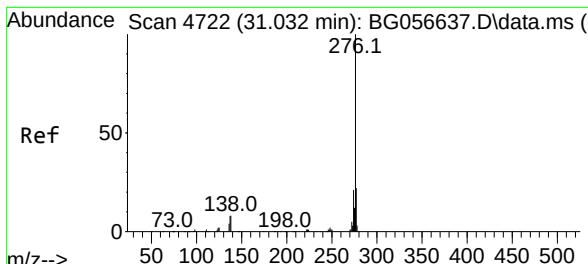
Reviewed By :Christian Giraldo 02/23/2023  
Supervised By :Jagrut Upadhyay 02/23/2023



#90  
Benzo(a)pyrene  
Concen: 13.741 ng  
RT: 25.476 min Scan# 3734  
Delta R.T. 0.017 min  
Lab File: BG056705.D  
Acq: 22 Feb 2023 20:02

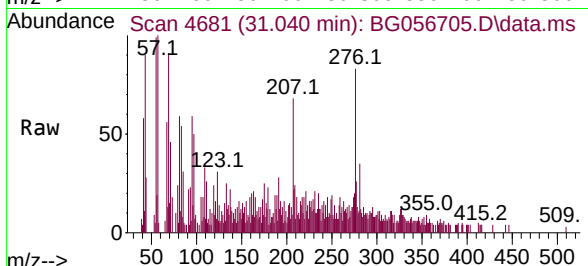
Tgt Ion:252 Resp: 59723  
Ion Ratio Lower Upper  
252 100  
253 25.1 17.9 26.9  
125 8.6 4.0 6.0





#92  
 Benzo(g,h,i)perylene  
 Concen: 4.411 ng m  
 RT: 31.040 min Scan# 4681  
 Delta R.T. 0.034 min  
 Lab File: BG056705.D  
 Acq: 22 Feb 2023 20:02

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-02-022123



Tgt Ion: 276 Resp: 19348

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 31.7  | 17.5  | 26.3  |
| 138 | 15.2  | 6.4   | 9.6   |

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 02/23/2023  
 Supervised By : Jagrut Upadhyay 02/23/2023

