

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG101022\  
 Data File : BG055112.D  
 Acq On : 10 Oct 2022 14:35  
 Operator : CG/JU  
 Sample : N5018-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SASP2-T-3-(5-10)

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 10/11/2022  
 Supervised By : mohammad ahmed 10/17/2022

Quant Time: Oct 11 04:03:28 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG100322.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 08 03:04:59 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.330  | 152  | 31783    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.162 | 136  | 129391   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.934 | 164  | 89872    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.672 | 188  | 222103   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.967 | 240  | 221545   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 25.410 | 264  | 243129   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.850  | 112  | 235118   | 164.311 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.460  | 99   | 306502   | 142.959 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.499  | 82   | 195989   | 90.510  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.414 | 330  | 179744   | 189.436 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.565 | 172  | 462072   | 80.264  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.245 | 244  | 888913   | 81.097  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene              | 17.713 | 178  | 102294   | 8.768   | ng    | 97       |
| 75) Fluoranthene              | 19.699 | 202  | 387398   | 26.617  | ng    | 99       |
| 78) Pyrene                    | 20.057 | 202  | 304252   | 20.653  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.943 | 228  | 194696   | 13.834  | ng    | 98       |
| 83) Chrysene                  | 22.014 | 228  | 178219   | 13.139  | ng    | 96       |
| 84) Bis(2-ethylhexyl)phtha... | 21.826 | 149  | 3750     | 4.598   | ng    | # 86     |
| 87) Indeno(1,2,3-cd)pyrene    | 29.358 | 276  | 113785m  | 6.485   | ng    |          |
| 88) Benzo(b)fluoranthene      | 24.311 | 252  | 229890   | 16.048  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 24.376 | 252  | 83896m   | 5.813   | ng    |          |
| 90) Benzo(a)pyrene            | 25.245 | 252  | 156173   | 12.720  | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 30.609 | 276  | 96365    | 6.735   | ng    | 98       |
| -----                         |        |      |          |         |       |          |

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

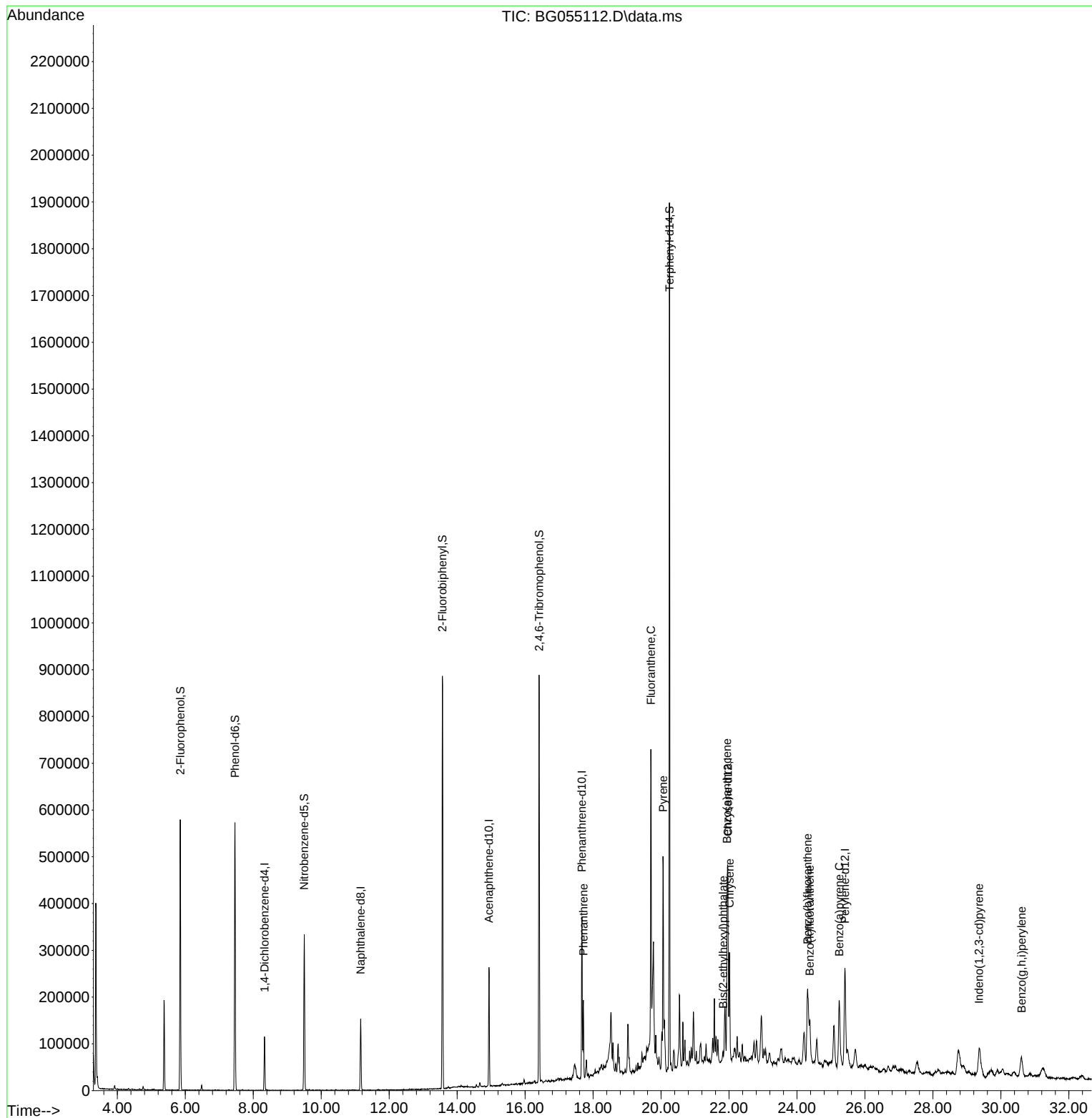
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG101022\  
Data File : BG055112.D  
Acq On : 10 Oct 2022 14:35  
Operator : CG/JU  
Sample : N5018-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

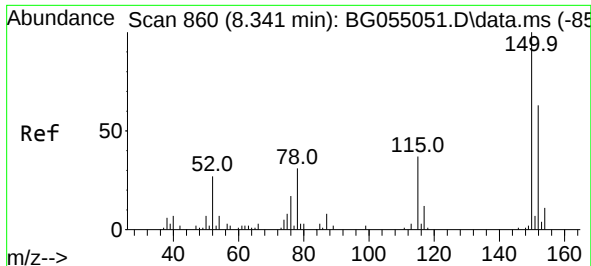
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)

Quant Time: Oct 11 04:03:28 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG100322.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Oct 08 03:04:59 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

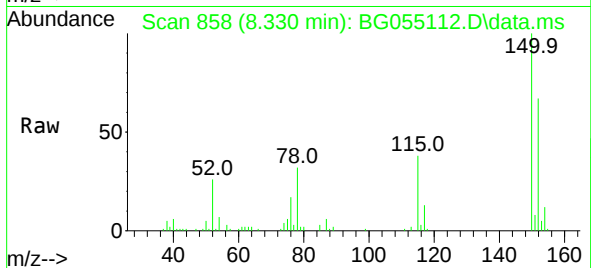
Reviewed By : Christian Giraldo 10/11/2022  
Supervised By : mohammad ahmed 10/17/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.330 min Scan# 81  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

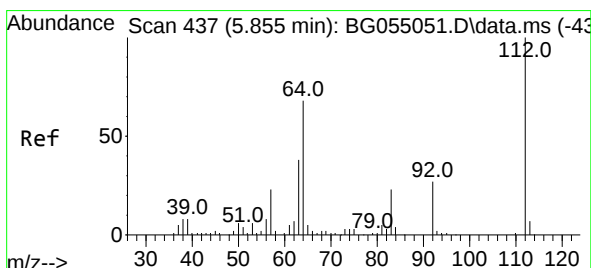
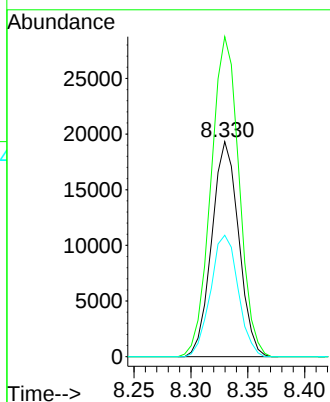
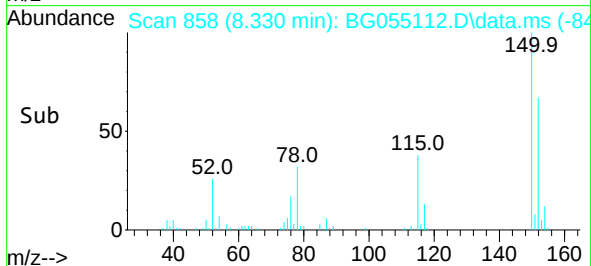
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



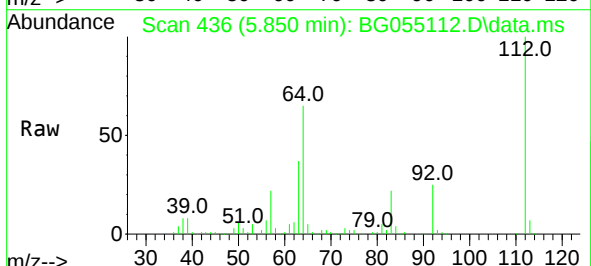
Tgt Ion:152 Resp: 3178  
Ion Ratio Lower Upper  
152 100  
150 148.8 128.0 192.0  
115 56.5 47.7 71.5

Manual Integrations  
APPROVED

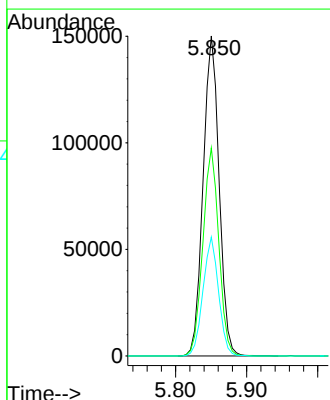
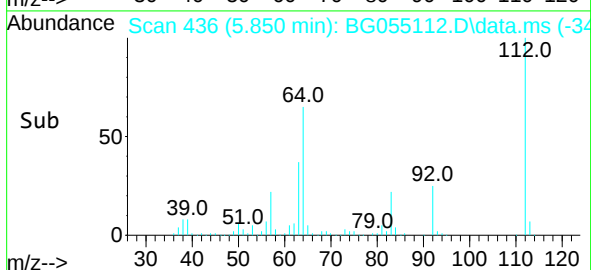
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022

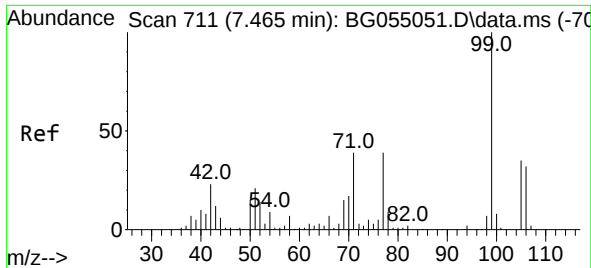


#5  
2-Fluorophenol  
Concen: 164.311 ng  
RT: 5.850 min Scan# 436  
Delta R.T. -0.002 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35



Tgt Ion:112 Resp: 235118  
Ion Ratio Lower Upper  
112 100  
64 65.0 54.5 81.7  
63 37.2 30.5 45.7





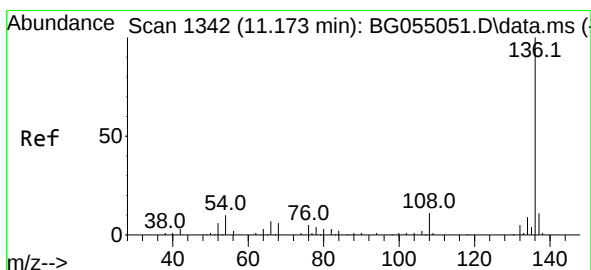
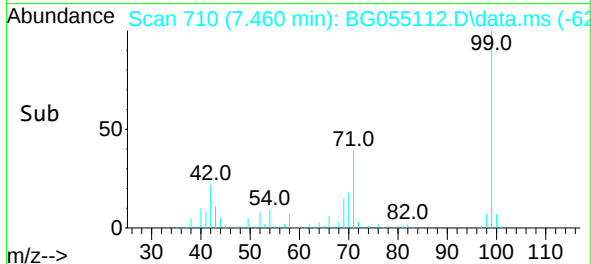
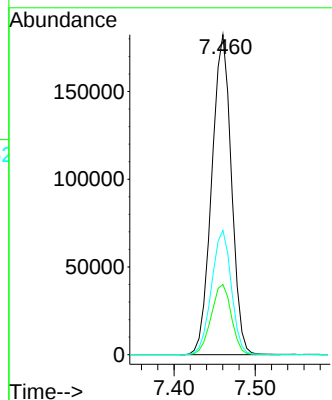
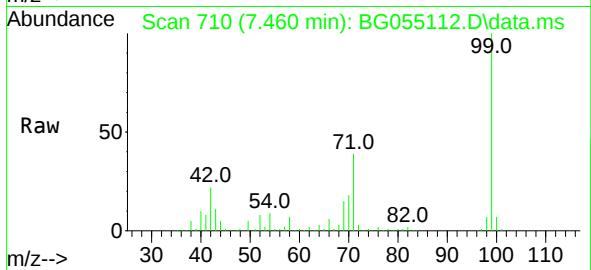
#7  
Phenol-d6  
Concen: 142.959 ng  
RT: 7.460 min Scan# 71  
Delta R.T. -0.002 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)

Tgt Ion: 99 Resp: 30650  
Ion Ratio Lower Upper  
99 100  
42 22.0 18.6 28.0  
71 38.9 31.2 46.8

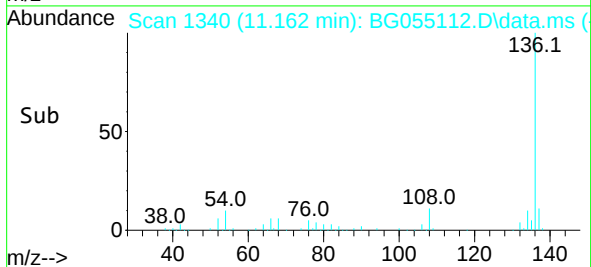
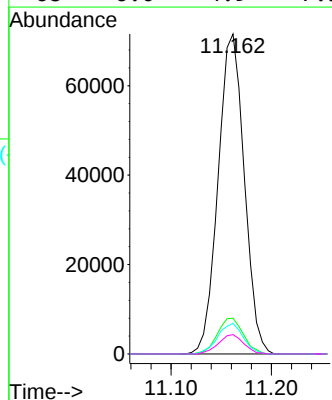
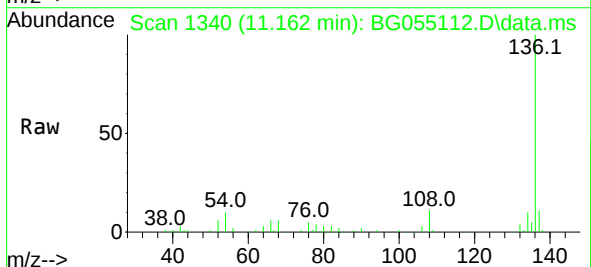
Manual Integrations  
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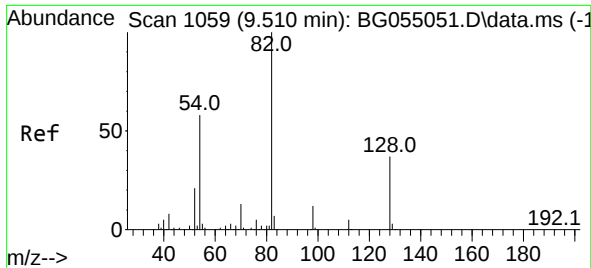
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.162 min Scan# 1340  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

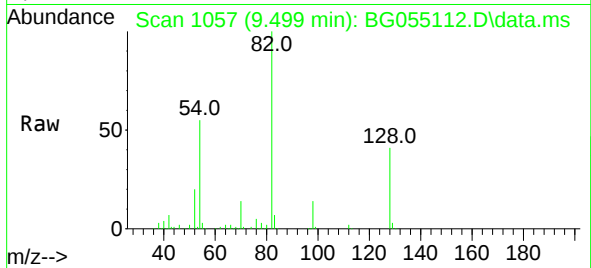
Tgt Ion:136 Resp: 129391  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.7 13.1  
54 9.5 8.2 12.4  
68 6.0 4.9 7.3





#23  
Nitrobenzene-d5  
Concen: 90.510 ng  
RT: 9.499 min Scan# 1057  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

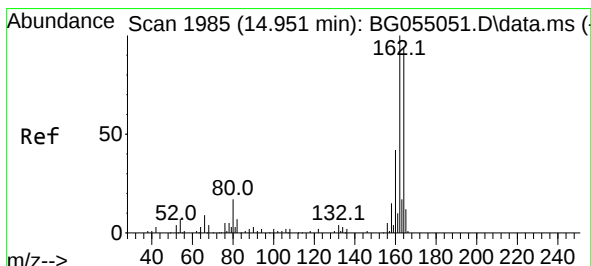
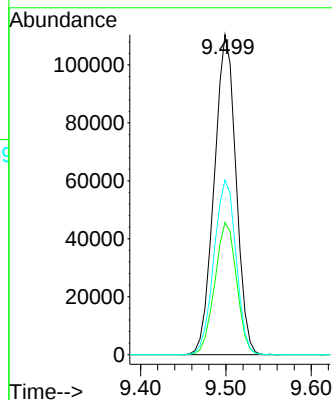
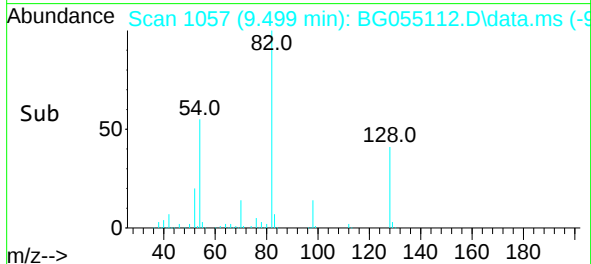
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



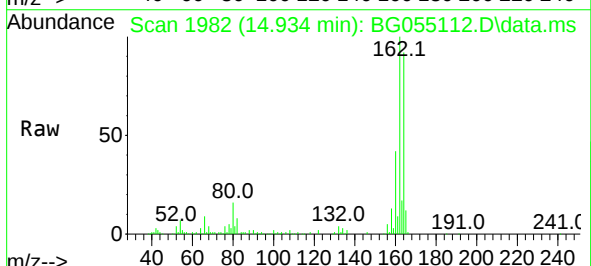
Tgt Ion: 82 Resp: 195989  
Ion Ratio Lower Upper  
82 100  
128 41.3 29.5 44.3  
54 54.6 46.7 70.1

Manual Integrations  
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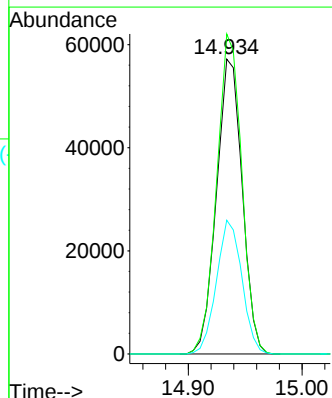
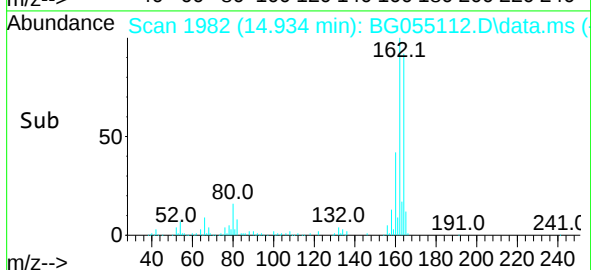
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022

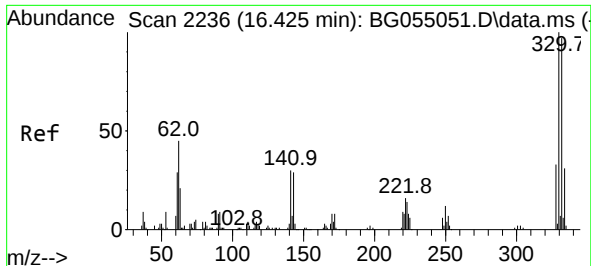


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.934 min Scan# 1982  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35



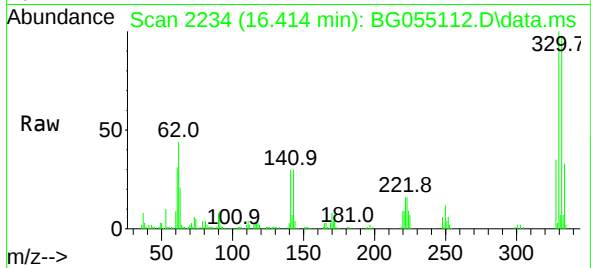
Tgt Ion:164 Resp: 89872  
Ion Ratio Lower Upper  
164 100  
162 108.5 85.5 128.3  
160 45.3 35.5 53.3





#42  
2,4,6-Tribromophenol  
Concen: 189.436 ng  
RT: 16.414 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

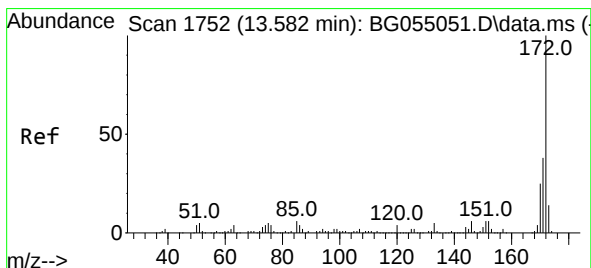
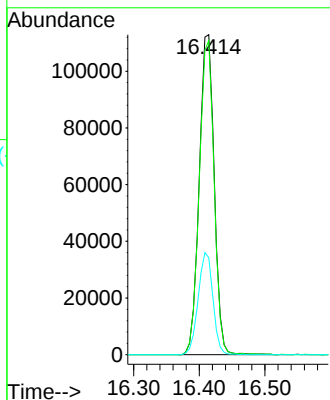
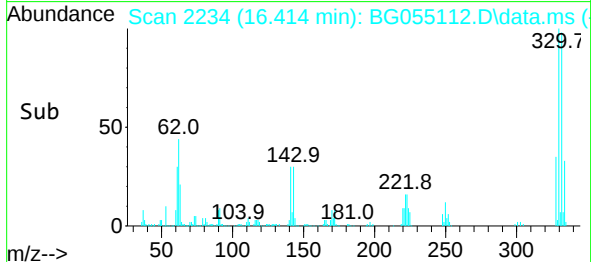
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



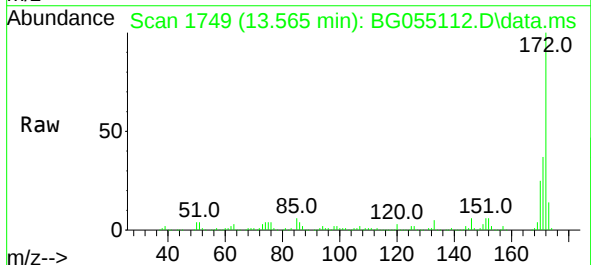
Tgt Ion:330 Resp: 179744  
Ion Ratio Lower Upper  
330 100  
332 97.1 77.4 116.0  
141 31.4 25.0 37.4

Manual Integrations  
APPROVED

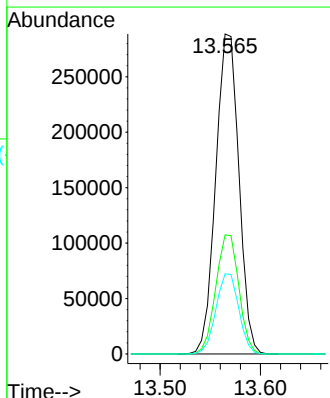
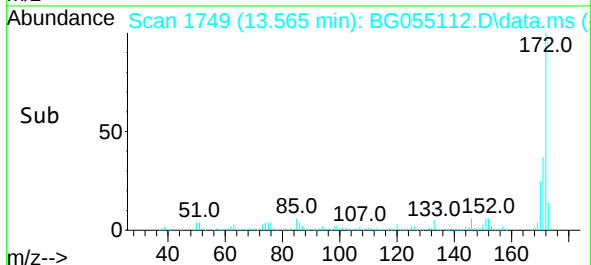
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022

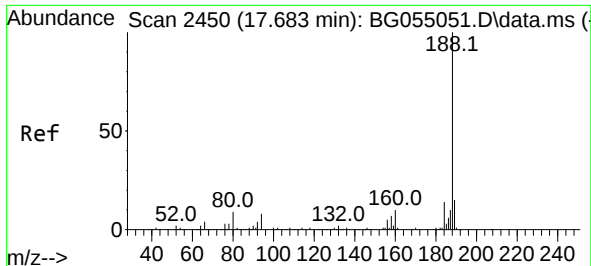


#45  
2-Fluorobiphenyl  
Concen: 80.264 ng  
RT: 13.565 min Scan# 1749  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35



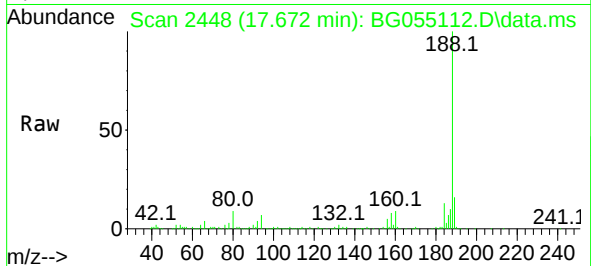
Tgt Ion:172 Resp: 462072  
Ion Ratio Lower Upper  
172 100  
171 37.2 30.1 45.1  
170 25.1 20.0 30.0





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.672 min Scan# 2448  
Delta R.T. -0.002 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

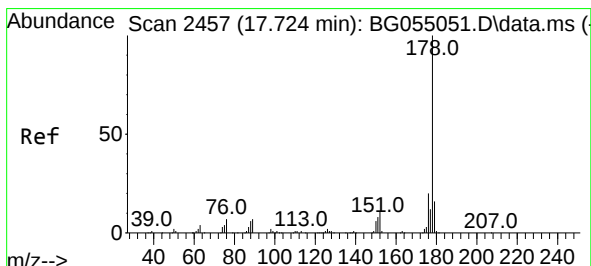
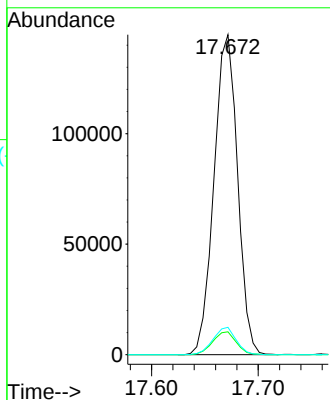
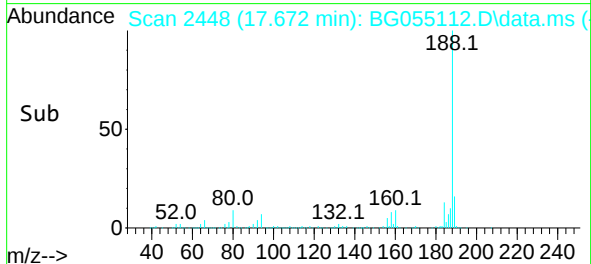
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



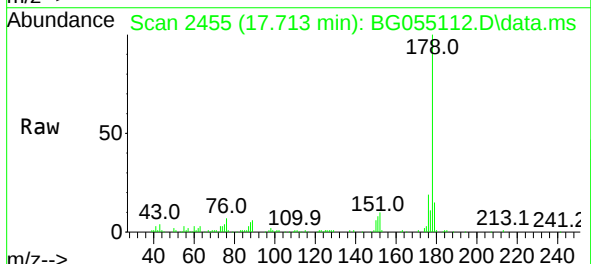
Tgt Ion:188 Resp: 22210  
Ion Ratio Lower Upper  
188 100  
94 7.2 6.2 9.2  
80 8.5 7.2 10.8

Manual Integrations  
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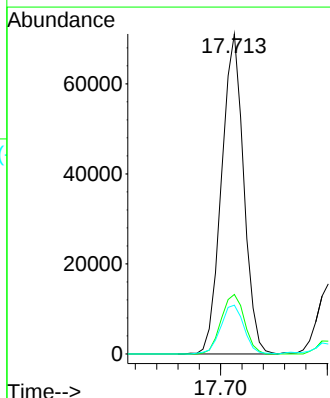
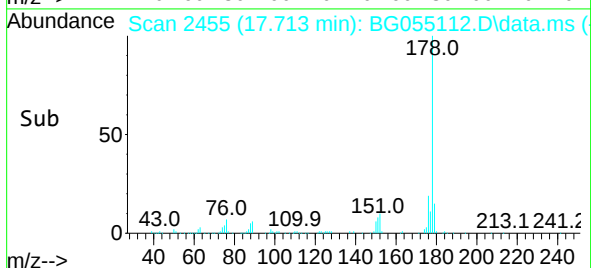
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022

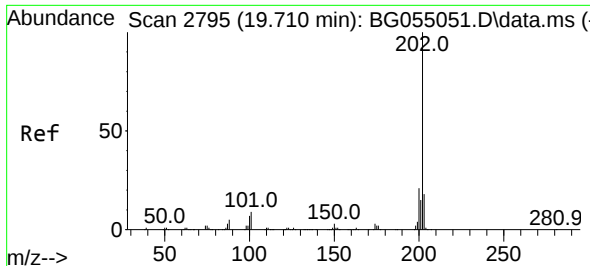


#71  
Phenanthrene  
Concen: 8.768 ng  
RT: 17.713 min Scan# 2455  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35



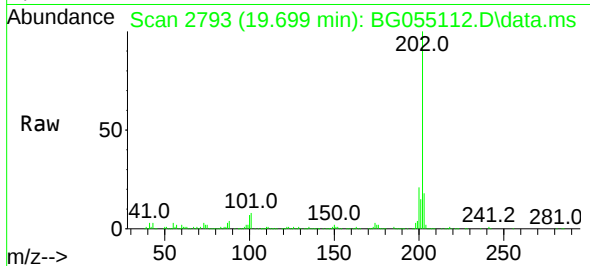
Tgt Ion:178 Resp: 102294  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.8 23.6  
179 15.3 13.2 19.8





#75  
Fluoranthene  
Concen: 26.617 ng  
RT: 19.699 min Scan# 21  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

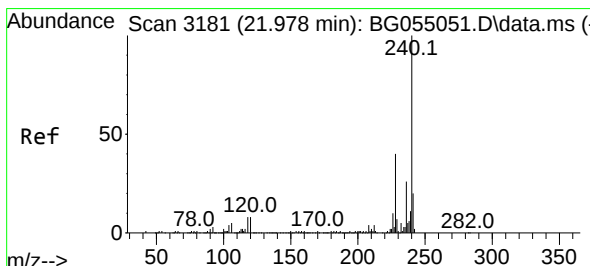
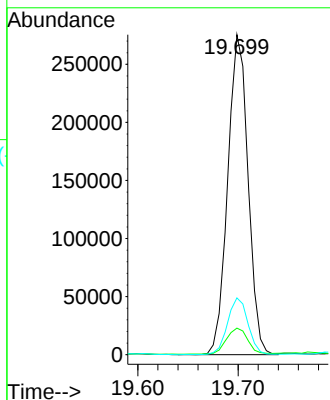
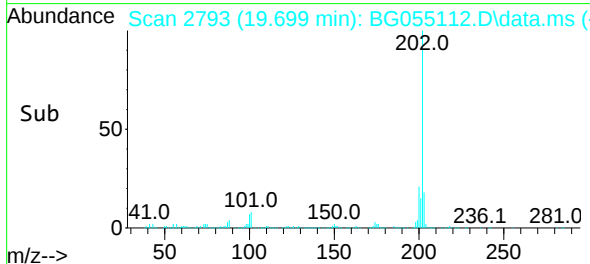
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



Tgt Ion:202 Resp: 387398  
Ion Ratio Lower Upper  
202 100  
101 8.3 0.0 28.9  
203 17.8 0.0 37.7

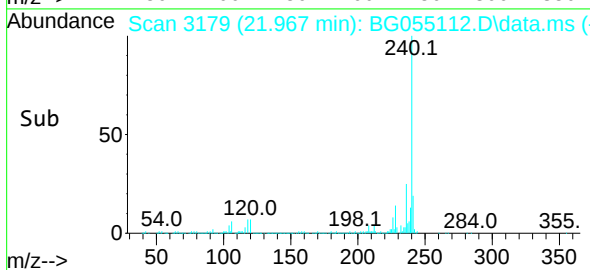
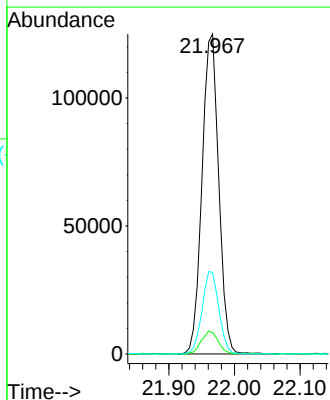
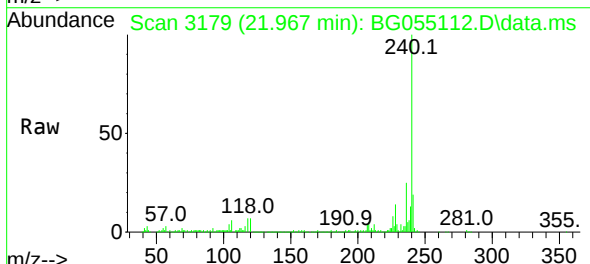
Manual Integrations  
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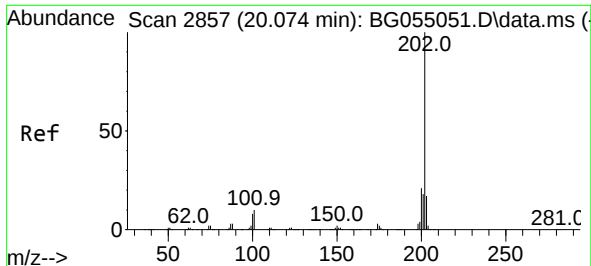
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.967 min Scan# 3179  
Delta R.T. -0.002 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

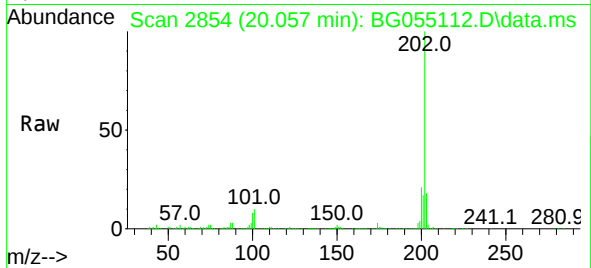
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Ion Ratio Lower Upper  
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120 6.7 6.2 9.4  
236 25.5 20.6 30.8





#78  
Pyrene  
Concen: 20.653 ng  
RT: 20.057 min Scan# 21  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

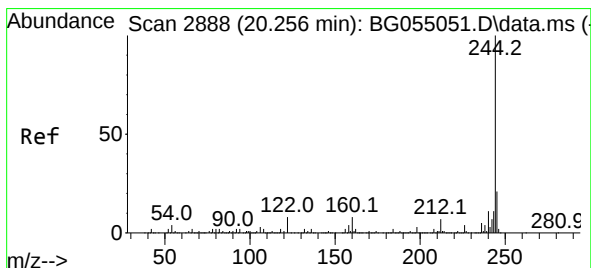
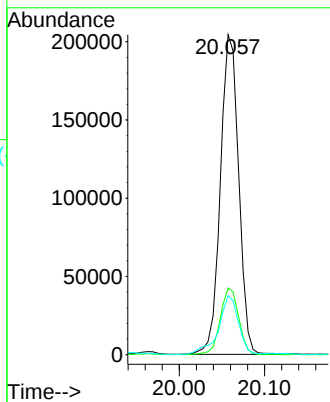
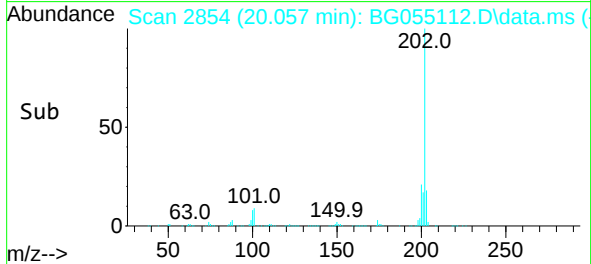
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



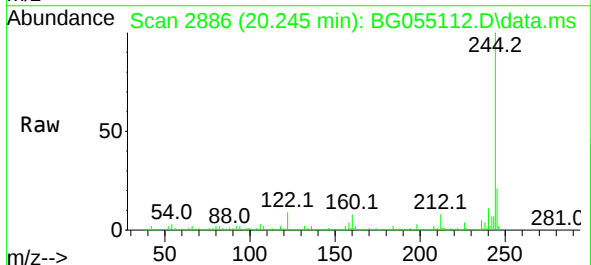
Tgt Ion:202 Resp: 30425  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.6 25.0  
203 18.4 14.0 21.0

Manual Integrations  
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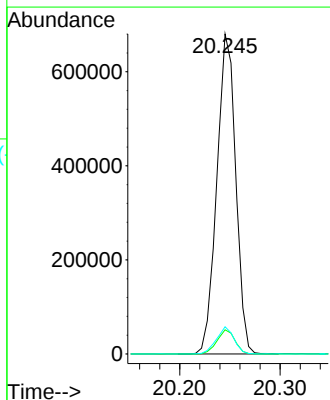
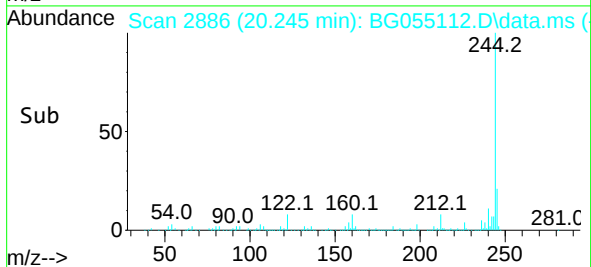
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022

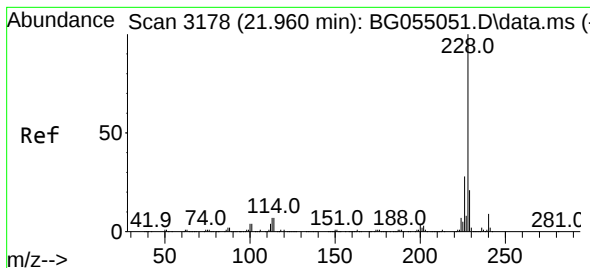


#79  
Terphenyl-d14  
Concen: 81.097 ng  
RT: 20.245 min Scan# 2886  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35



Tgt Ion:244 Resp: 888913  
Ion Ratio Lower Upper  
244 100  
212 7.6 6.0 9.0  
122 8.5 6.6 10.0





#81

Benzo(a)anthracene

Concen: 13.834 ng

RT: 21.943 min Scan# 3175

Delta R.T. -0.008 min

Lab File: BG055112.D

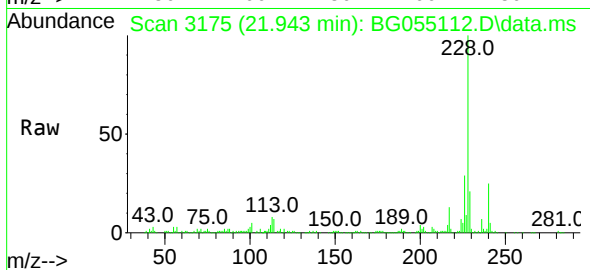
Acq: 10 Oct 2022 14:35

Instrument :

BNA\_G

ClientSampleId :

SASP2-T-3-(5-10)



Tgt Ion:228 Resp: 194690

Ion Ratio Lower Upper

228 100

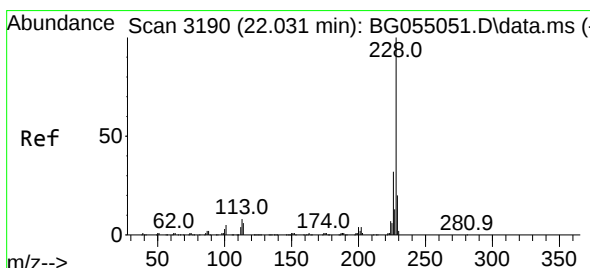
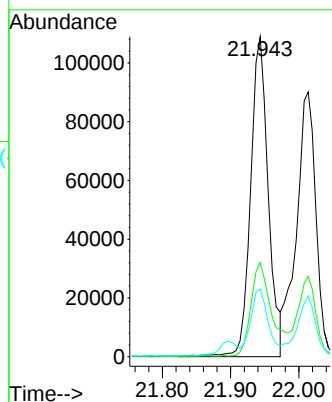
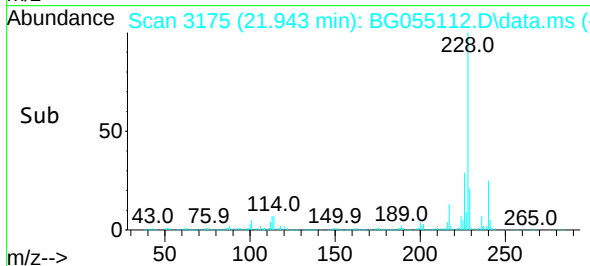
226 29.4 22.4 33.6

229 21.2 16.7 25.1

Manual Integrations

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Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022



#83

Chrysene

Concen: 13.139 ng

RT: 22.014 min Scan# 3187

Delta R.T. -0.008 min

Lab File: BG055112.D

Acq: 10 Oct 2022 14:35

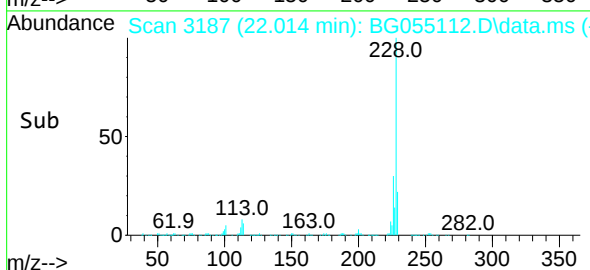
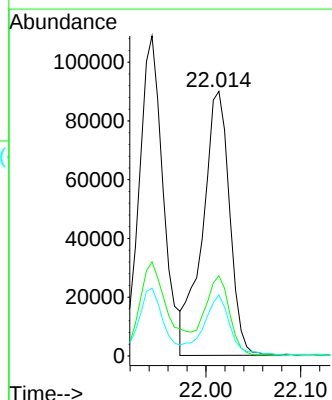
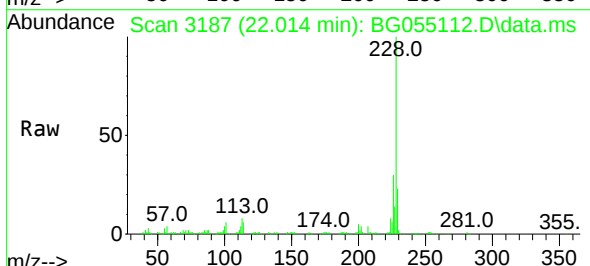
Tgt Ion:228 Resp: 178219

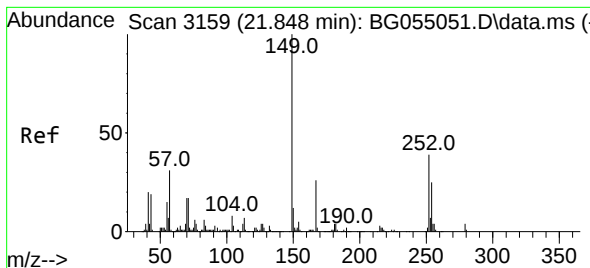
Ion Ratio Lower Upper

228 100

226 30.3 25.3 37.9

229 23.0 16.1 24.1





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.598 ng

RT: 21.826 min Scan# 3155

Delta R.T. -0.008 min

Lab File: BG055112.D

Acq: 10 Oct 2022 14:35

Instrument :

BNA\_G

ClientSampleId :

SASP2-T-3-(5-10)

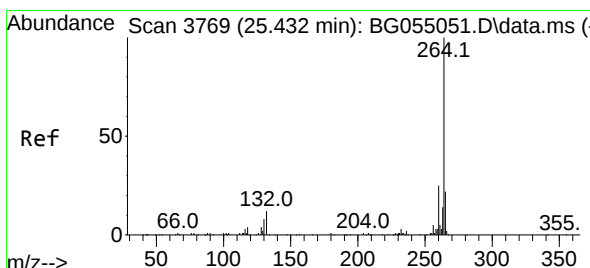
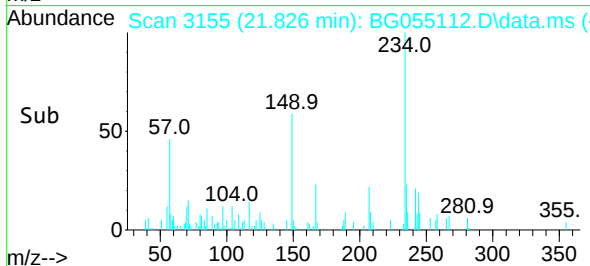
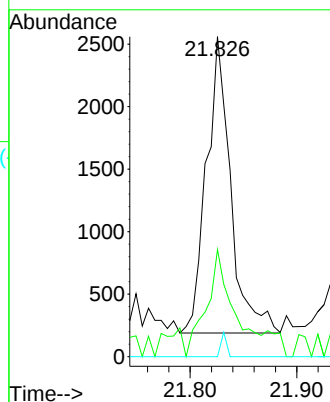
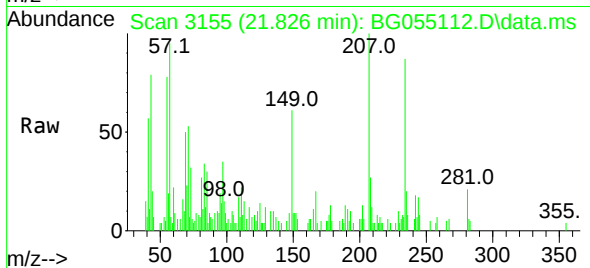
Tgt Ion:149 Resp: 3750

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 33.5  | 21.0  | 31.4  |
| 279 | 0.0   | 3.4   | 5.2   |

Manual Integrations

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Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.410 min Scan# 3765

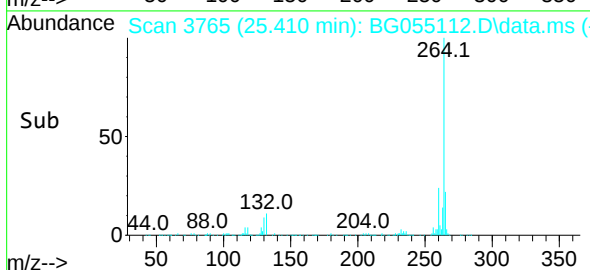
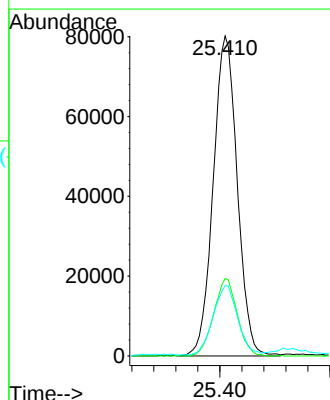
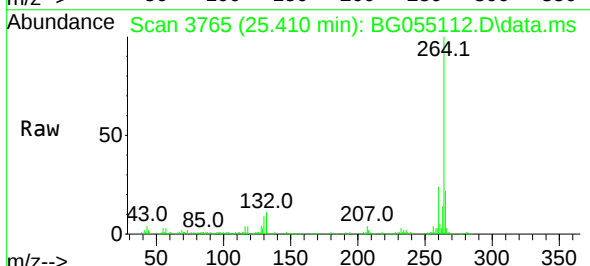
Delta R.T. -0.008 min

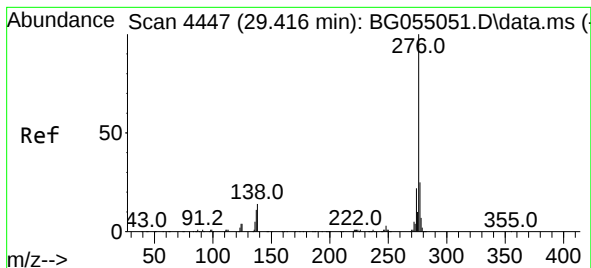
Lab File: BG055112.D

Acq: 10 Oct 2022 14:35

Tgt Ion:264 Resp: 243129

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.2  | 19.7  | 29.5  |
| 265 | 21.9  | 17.8  | 26.6  |





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.485 ng m

RT: 29.358 min Scan# 4447

Delta R.T. -0.032 min

Lab File: BG055112.D

Acq: 10 Oct 2022 14:35

Instrument :

BNA\_G

ClientSampleId :

SASP2-T-3-(5-10)

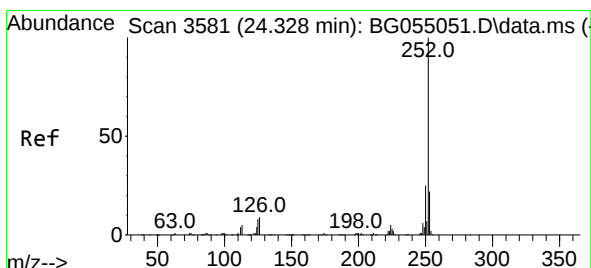
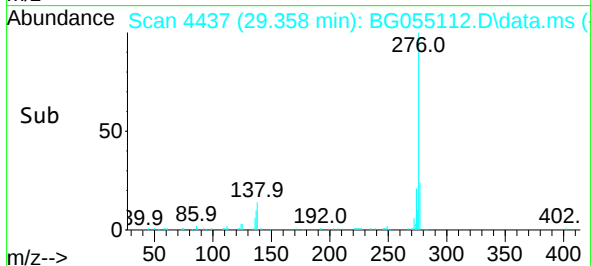
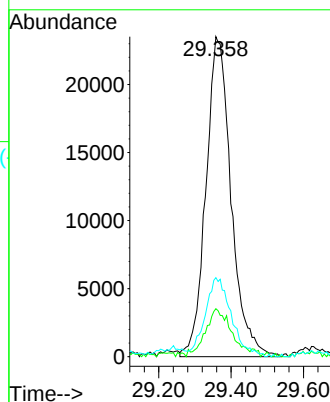
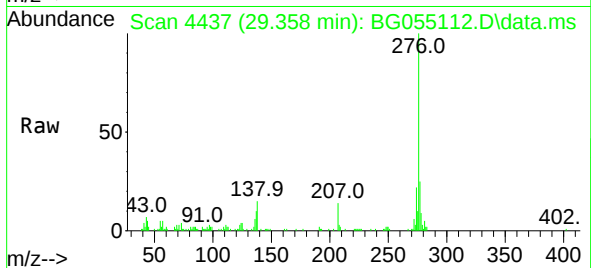
Tgt Ion: 276 Resp: 11378

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 1.4   | 10.0  | 15.0  |
| 277 | 3.0   | 20.0  | 30.0  |

Manual Integrations

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Reviewed By : Christian Giraldo 10/11/2022  
Supervised By : mohammad ahmed 10/17/2022



#88

Benzo(b)fluoranthene

Concen: 16.048 ng

RT: 24.311 min Scan# 3578

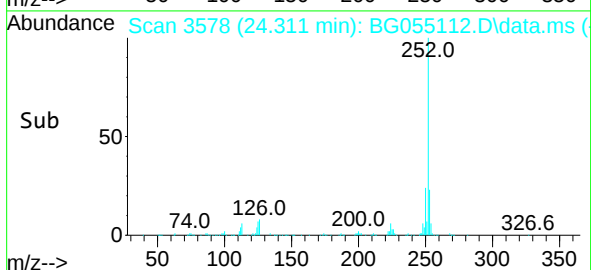
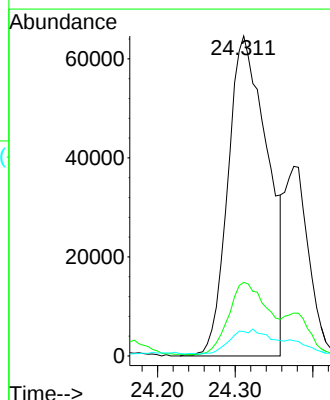
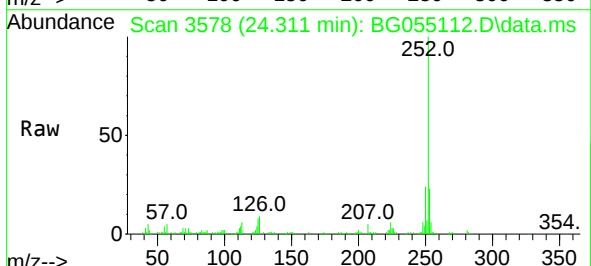
Delta R.T. -0.008 min

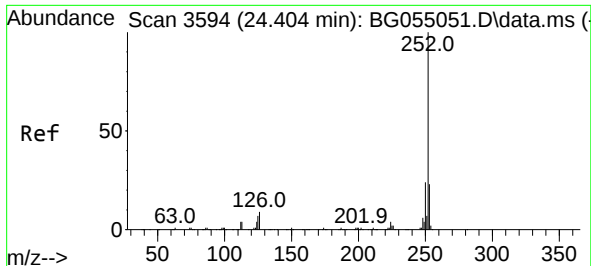
Lab File: BG055112.D

Acq: 10 Oct 2022 14:35

Tgt Ion: 252 Resp: 229890

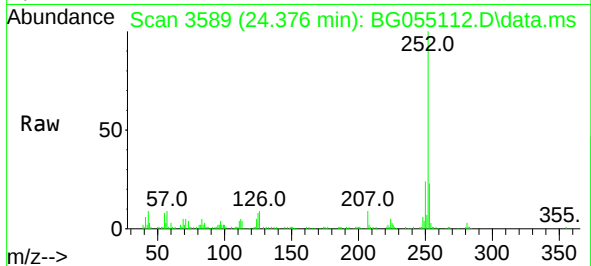
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.0  | 17.9  | 26.9  |
| 125 | 7.6   | 6.1   | 9.1   |





#89  
Benzo(k)fluoranthene  
Concen: 5.813 ng m  
RT: 24.376 min Scan# 31  
Delta R.T. -0.014 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

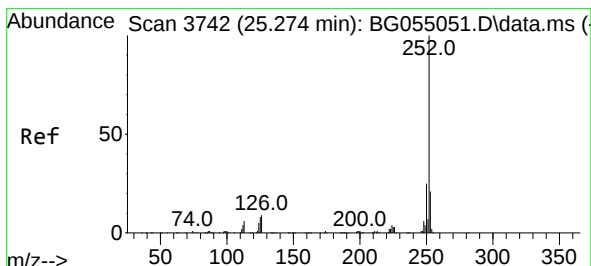
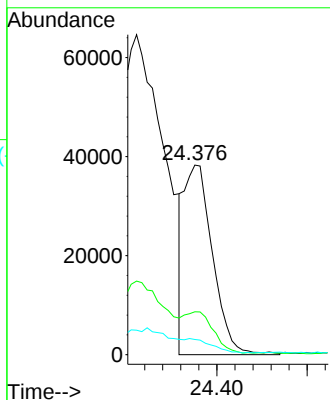
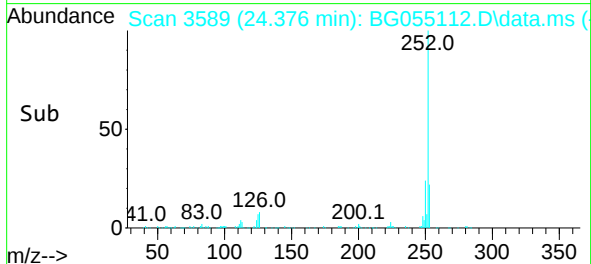
Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



Tgt Ion:252 Resp: 83890  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.9 26.9  
125 8.1 5.8 8.6

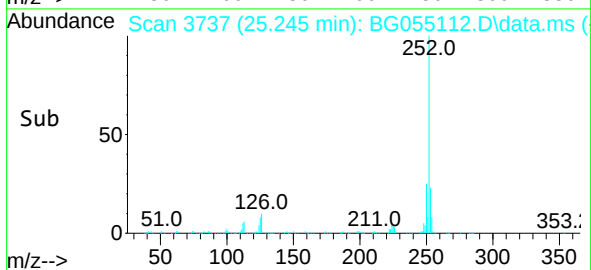
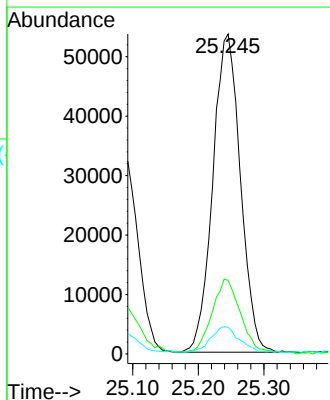
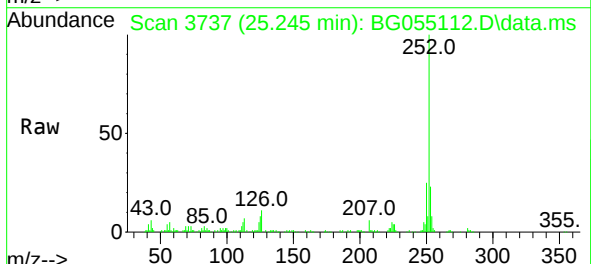
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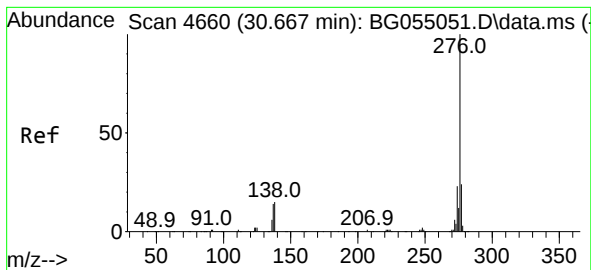
Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022



#90  
Benzo(a)pyrene  
Concen: 12.720 ng  
RT: 25.245 min Scan# 3737  
Delta R.T. -0.008 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

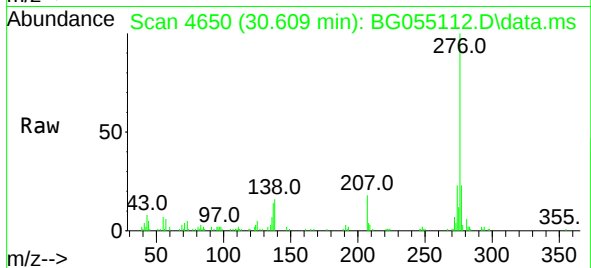
Tgt Ion:252 Resp: 156173  
Ion Ratio Lower Upper  
252 100  
253 23.0 16.9 25.3  
125 8.4 6.6 9.8





#92  
Benzo(g,h,i)perylene  
Concen: 6.735 ng  
RT: 30.609 min Scan# 4650  
Delta R.T. -0.020 min  
Lab File: BG055112.D  
Acq: 10 Oct 2022 14:35

Instrument :  
BNA\_G  
ClientSampleId :  
SASP2-T-3-(5-10)



Tgt Ion:276 Resp: 9636  
Ion Ratio Lower Upper  
276 100  
277 23.3 18.8 28.2  
138 16.3 11.8 17.6

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 10/11/2022  
Supervised By :mohammad ahmed 10/17/2022

