

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050224\  
 Data File : BG061096.D  
 Acq On : 2 May 2024 16:46  
 Operator : MA/JU  
 Sample : P2337-03 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RB21155-SOIL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 05/03/2024  
 Supervised By :mohammad ahmed 05/06/2024

Quant Time: May 02 17:49:22 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 05:11:25 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.938  | 152  | 30914    | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8            | 10.729 | 136  | 117665   | 20.000 | ng    | -0.03    |
| 39) Acenaphthene-d10          | 14.566 | 164  | 79878    | 20.000 | ng    | -0.02    |
| 64) Phenanthrene-d10          | 17.321 | 188  | 172614   | 20.000 | ng    | #-0.01   |
| 76) Chrysene-d12              | 21.575 | 240  | 171862   | 20.000 | ng    | -0.02    |
| 86) Perylene-d12              | 24.701 | 264  | 145823   | 20.000 | ng    | #-0.03   |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.523  | 112  | 47335    | 31.140 | ng    | -0.02    |
| 7) Phenol-d6                  | 7.110  | 99   | 64508    | 28.687 | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 9.090  | 82   | 49071    | 20.674 | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol      | 16.058 | 330  | 44613    | 27.942 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 13.185 | 172  | 129949   | 24.056 | ng    | -0.02    |
| 79) Terphenyl-d14             | 19.936 | 244  | 202929   | 19.638 | ng    | -0.02    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene              | 17.363 | 178  | 26479    | 3.355  | ng    | # 78     |
| 75) Fluoranthene              | 19.372 | 202  | 94510    | 8.741  | ng    | 92       |
| 78) Pyrene                    | 19.736 | 202  | 98345    | 9.001  | ng    | 95       |
| 81) Benzo(a)anthracene        | 21.558 | 228  | 54358m   | 4.833  | ng    |          |
| 83) Chrysene                  | 21.616 | 228  | 68934    | 6.542  | ng    | 96       |
| 84) Bis(2-ethylhexyl)phtha... | 21.475 | 149  | 18124    | 4.013  | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 23.714 | 252  | 79612    | 9.770  | ng    | # 98     |
| 89) Benzo(k)fluoranthene      | 23.767 | 252  | 43864m   | 5.595  | ng    |          |
| 90) Benzo(a)pyrene            | 24.554 | 252  | 40438    | 5.696  | ng    | # 89     |
| -----                         |        |      |          |        |       |          |

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

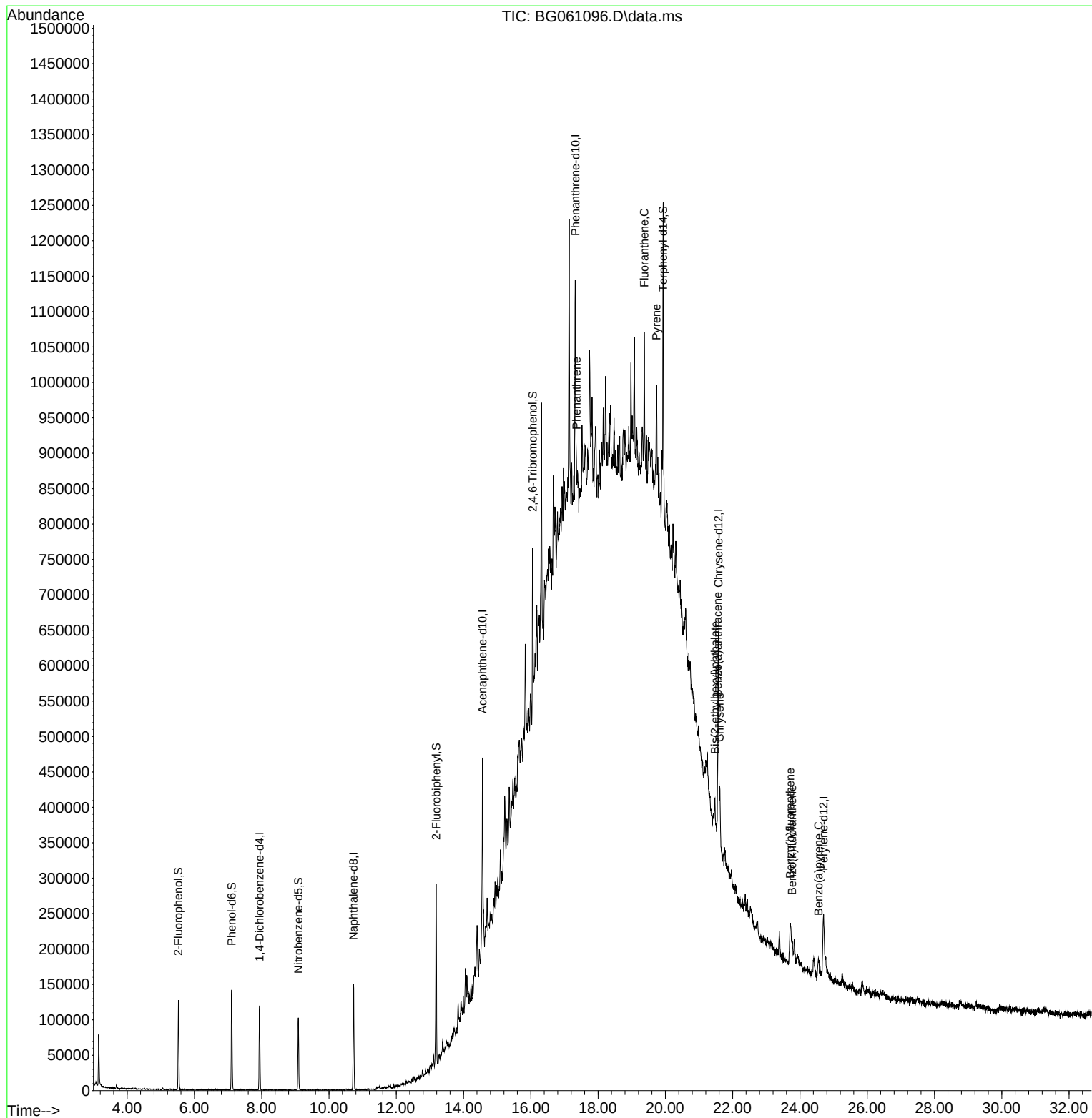
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050224\  
Data File : BG061096.D  
Acq On : 2 May 2024 16:46  
Operator : MA/JU  
Sample : P2337-03 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

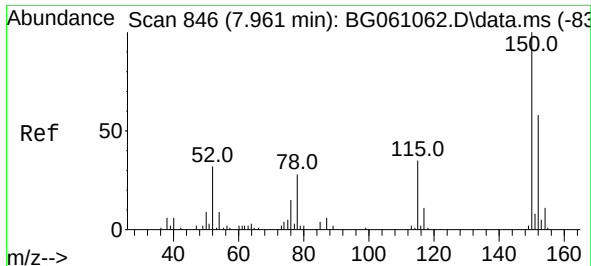
Instrument :  
BNA\_G  
ClientSampleId :  
RB21155-SOIL

Quant Time: May 02 17:49:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 01 05:11:25 2024  
Response via : Initial Calibration

Manual Integrations  
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Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024





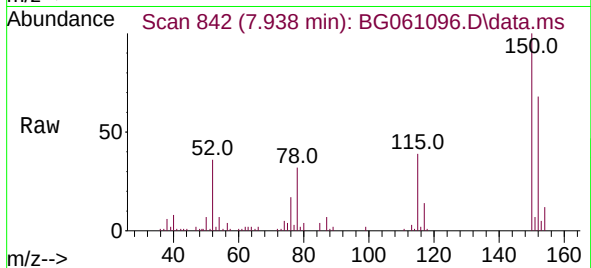
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.938 min Scan# 846  
Delta R.T. -0.023 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL



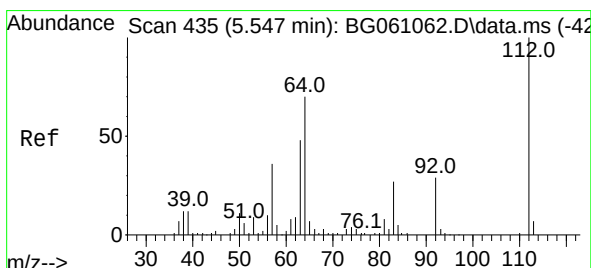
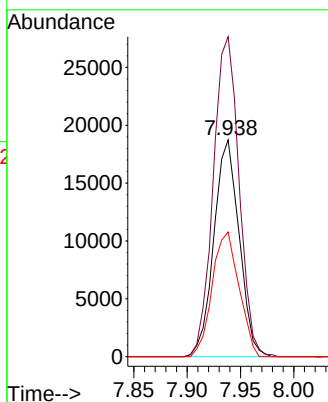
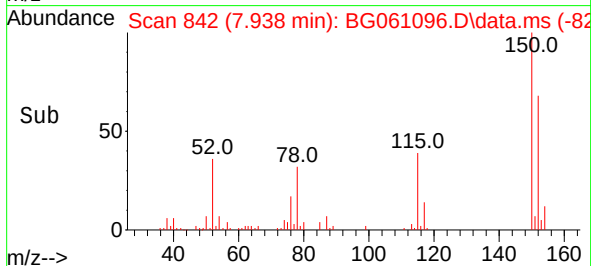
Tgt Ion:152 Resp: 30914  
Ion Ratio Lower Upper  
152 100  
150 147.5 138.3 207.5  
115 57.5 48.0 72.0

Manual Integrations

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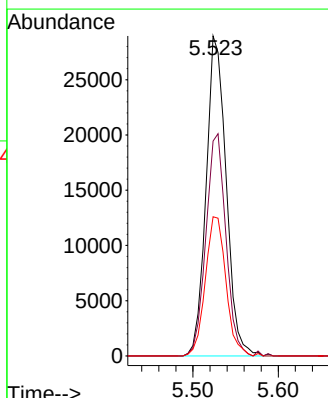
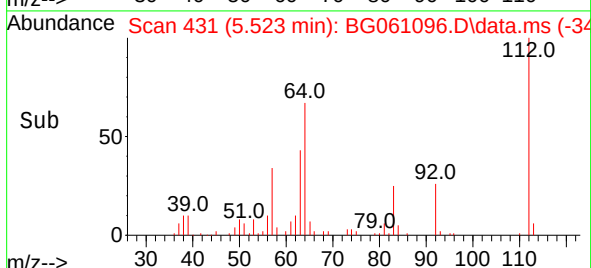
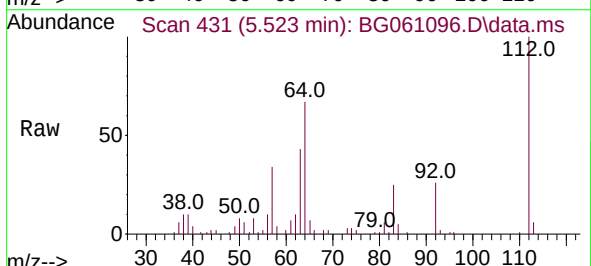
Reviewed By :Yogesh Patel 05/03/2024

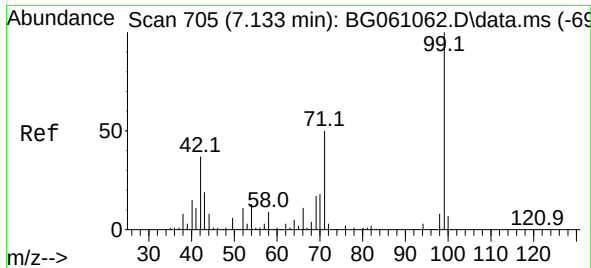
Supervised By :mohammad ahmed 05/06/2024



#5  
2-Fluorophenol  
Concen: 31.140 ng  
RT: 5.523 min Scan# 431  
Delta R.T. -0.023 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

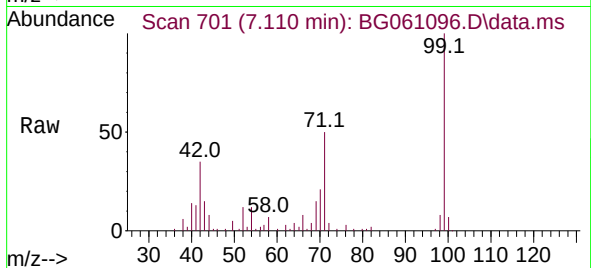
Tgt Ion:112 Resp: 47335  
Ion Ratio Lower Upper  
112 100  
64 67.1 55.7 83.5  
63 43.5 38.1 57.1





#7  
Phenol-d6  
Concen: 28.687 ng  
RT: 7.110 min Scan# 705  
Delta R.T. -0.023 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

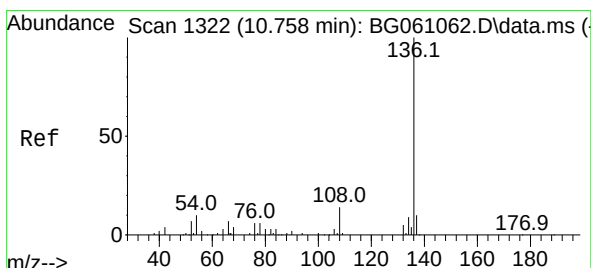
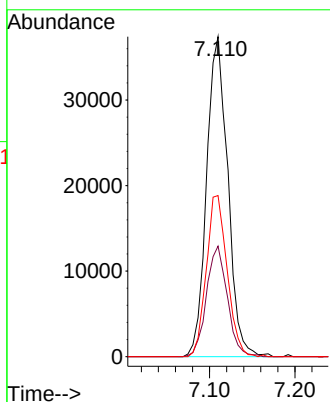
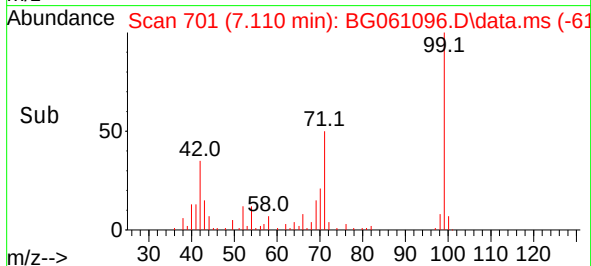
Instrument :  
BNA\_G  
ClientSampleId :  
RB21155-SOIL



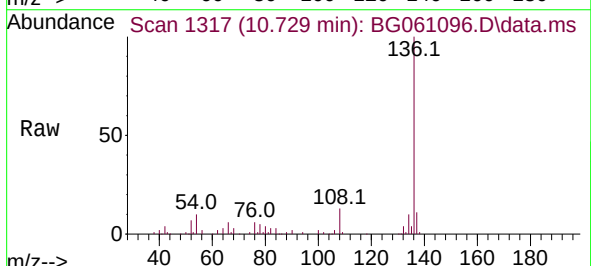
Tgt Ion: 99 Resp: 64508  
Ion Ratio Lower Upper  
99 100  
42 34.6 29.2 43.8  
71 50.4 39.7 59.5

Manual Integrations  
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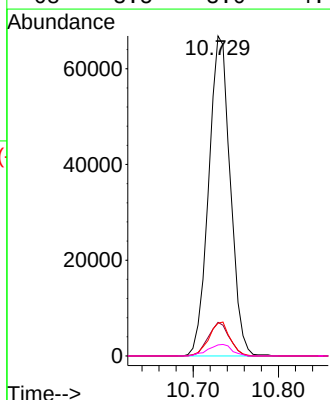
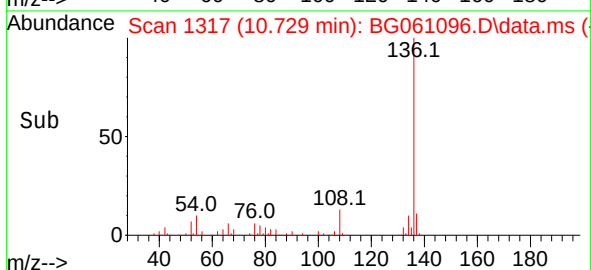
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024

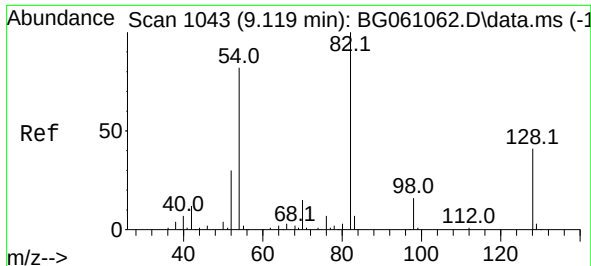


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.729 min Scan# 1317  
Delta R.T. -0.029 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46



Tgt Ion:136 Resp: 117665  
Ion Ratio Lower Upper  
136 100  
137 10.5 7.8 11.6  
54 10.3 8.1 12.1  
68 3.5 3.0 4.4





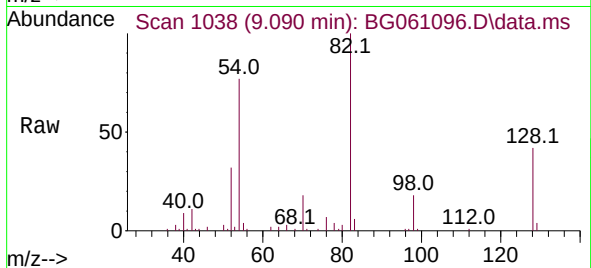
#23  
Nitrobenzene-d5  
Concen: 20.674 ng  
RT: 9.090 min Scan# 1043  
Delta R.T. -0.029 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL



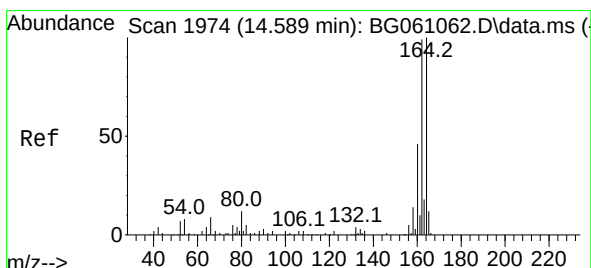
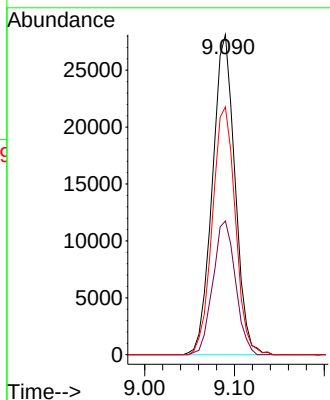
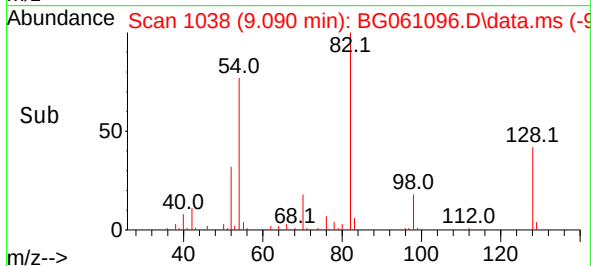
Tgt Ion: 82 Resp: 4907  
Ion Ratio Lower Upper  
82 100  
128 41.8 32.7 49.1  
54 77.4 65.6 98.4

Manual Integrations

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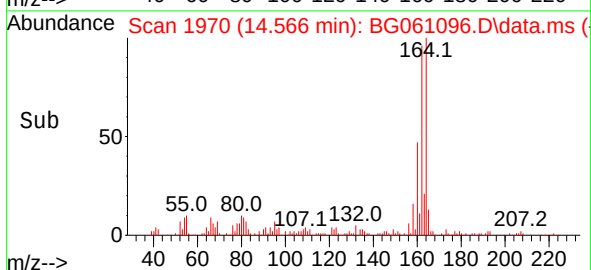
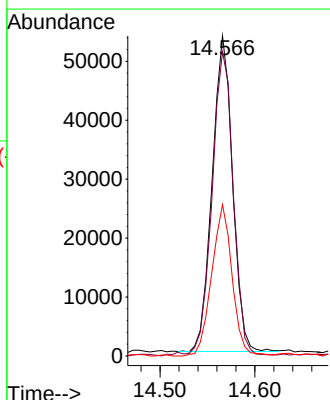
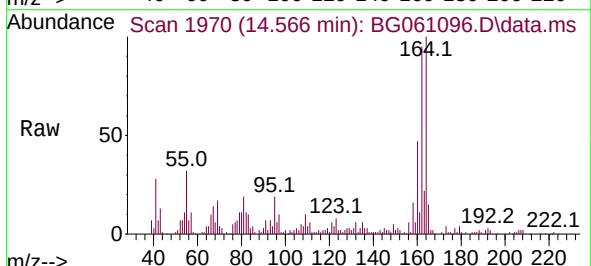
Reviewed By :Yogesh Patel 05/03/2024

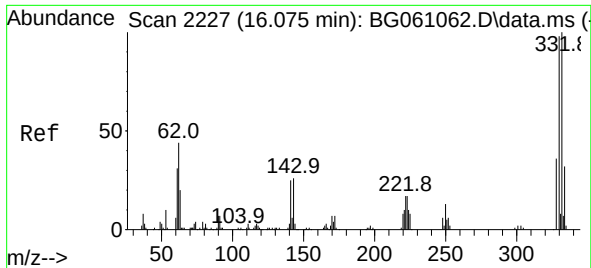
Supervised By :mohammad ahmed 05/06/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.566 min Scan# 1970  
Delta R.T. -0.023 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

Tgt Ion:164 Resp: 79878  
Ion Ratio Lower Upper  
164 100  
162 95.0 79.4 119.2  
160 47.3 37.0 55.6





#42  
2,4,6-Tribromophenol  
Concen: 27.942 ng  
RT: 16.058 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

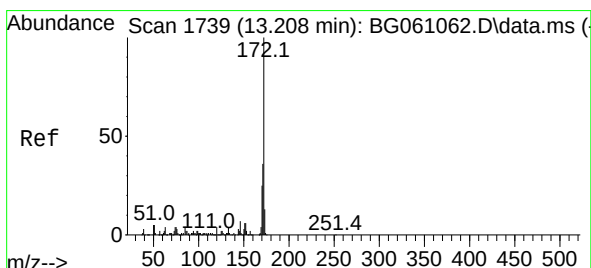
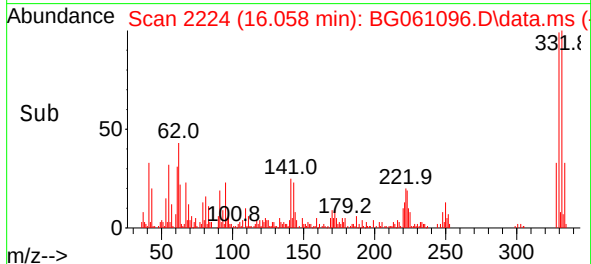
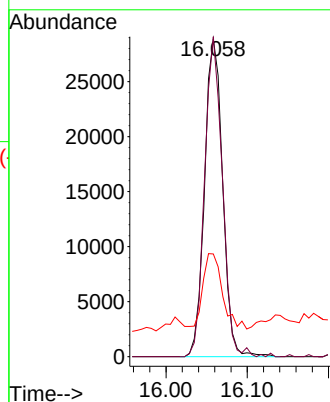
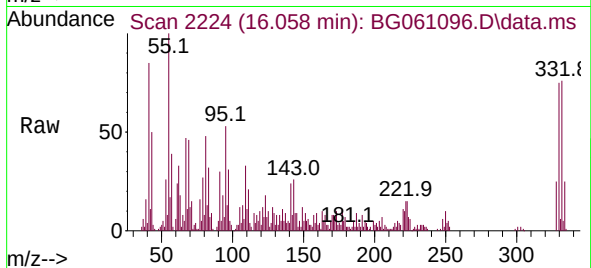
RB21155-SOIL

Tgt Ion:330 Resp: 4461  
Ion Ratio Lower Upper  
330 100  
332 98.5 78.6 117.8  
141 25.3 20.5 30.7

Manual Integrations

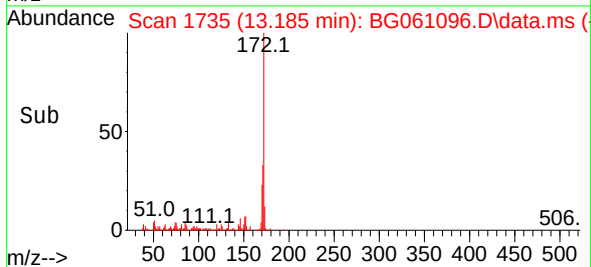
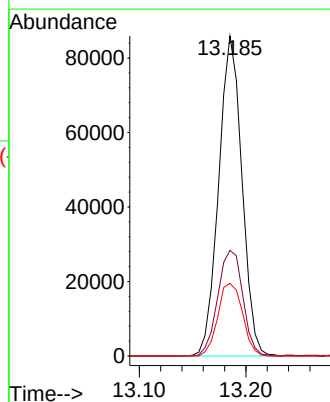
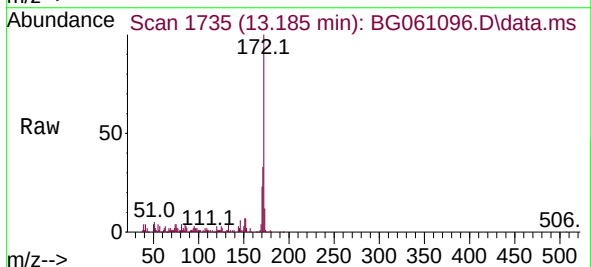
APPROVED

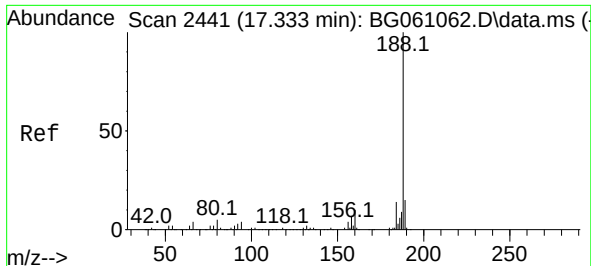
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024



#45  
2-Fluorobiphenyl  
Concen: 24.056 ng  
RT: 13.185 min Scan# 1735  
Delta R.T. -0.023 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

Tgt Ion:172 Resp: 129949  
Ion Ratio Lower Upper  
172 100  
171 33.0 29.0 43.6  
170 22.7 20.2 30.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.321 min Scan# 2439

Delta R.T. -0.011 min

Lab File: BG061096.D

Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL

Tgt Ion:188 Resp: 172614

Ion Ratio Lower Upper

188 100

94 7.5 3.6 5.4

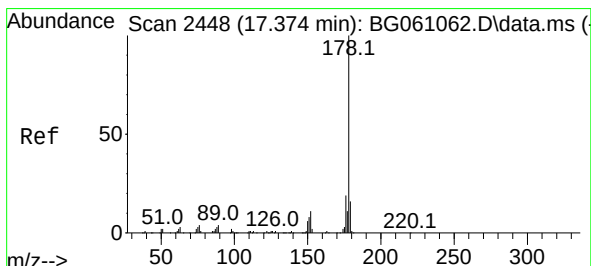
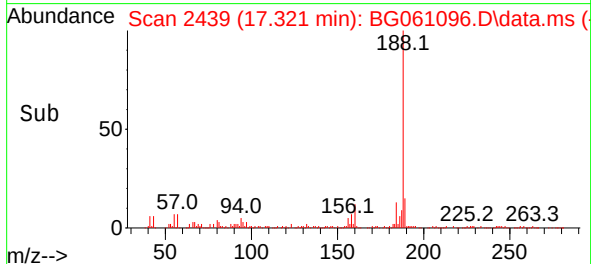
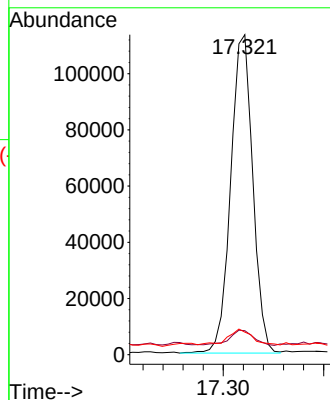
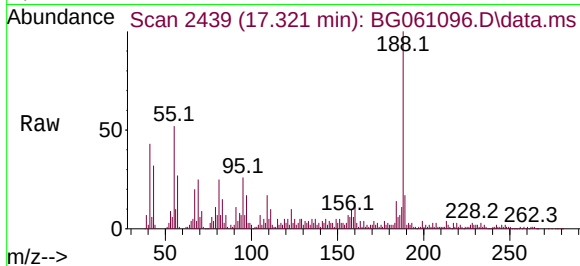
80 7.0 4.2 6.2

Manual Integrations

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Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#71

Phenanthrene

Concen: 3.355 ng

RT: 17.363 min Scan# 2446

Delta R.T. -0.011 min

Lab File: BG061096.D

Acq: 2 May 2024 16:46

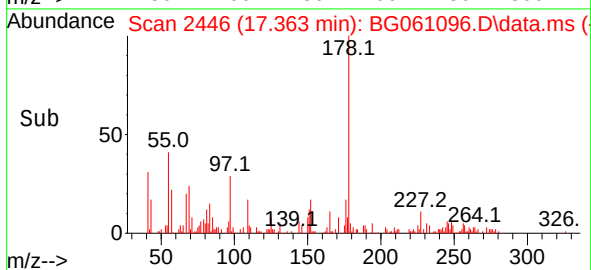
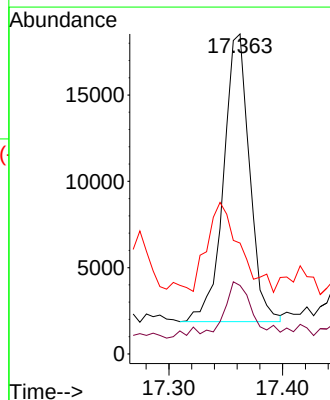
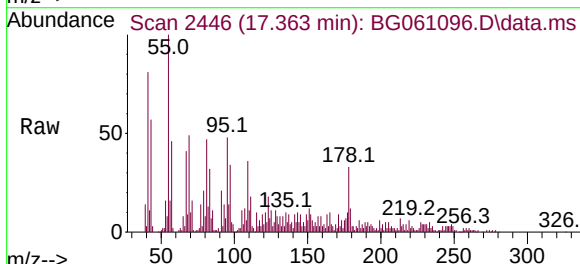
Tgt Ion:178 Resp: 26479

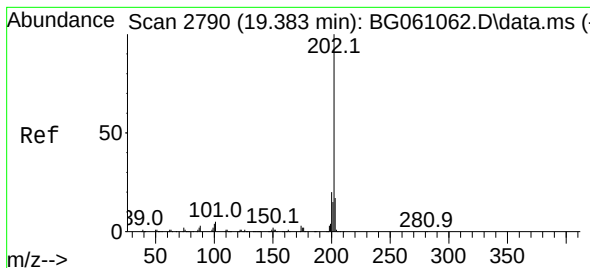
Ion Ratio Lower Upper

178 100

176 21.4 15.5 23.3

179 34.7 12.6 19.0





#75

Fluoranthene

Concen: 8.741 ng

RT: 19.372 min Scan# 21

Delta R.T. -0.011 min

Lab File: BG061096.D

Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL

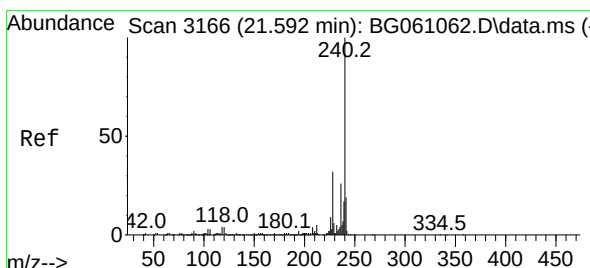
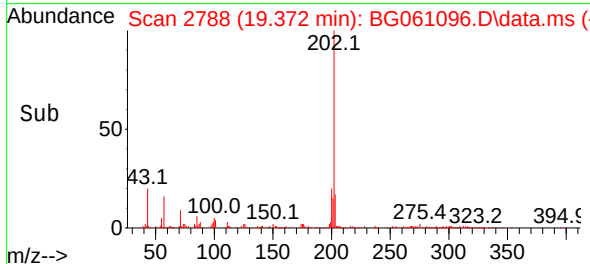
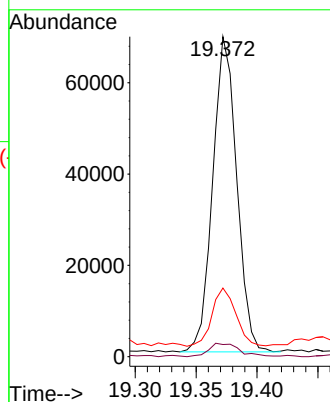
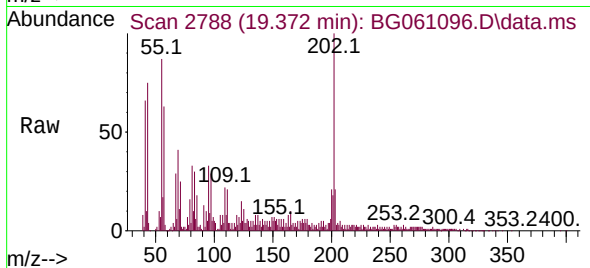
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 94510 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 3.8   | 0.0   | 24.7  |
| 203       | 21.4  | 0.0   | 37.1  |

Manual Integrations

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Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#76

Chrysene-d12

Concen: 20.000 ng

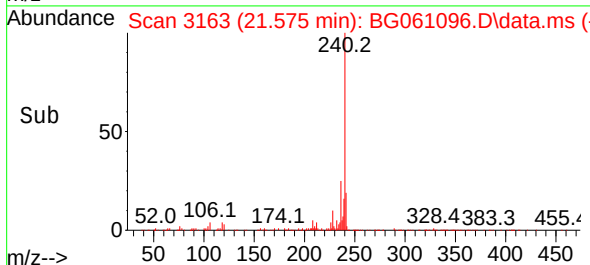
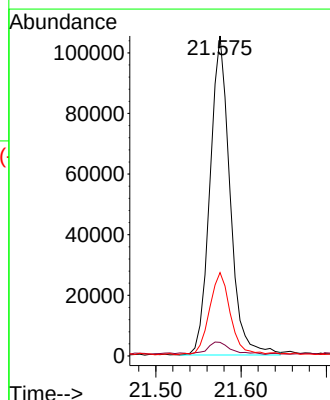
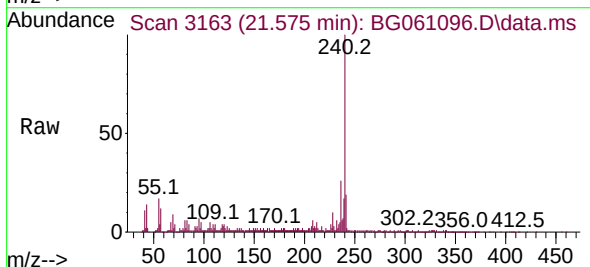
RT: 21.575 min Scan# 3163

Delta R.T. -0.017 min

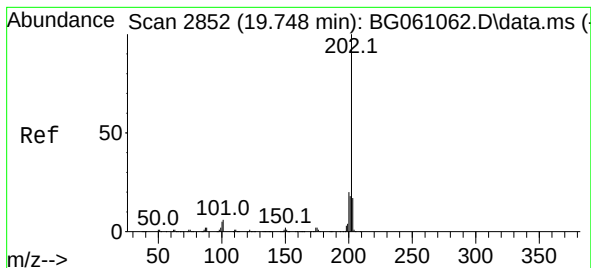
Lab File: BG061096.D

Acq: 2 May 2024 16:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 171862 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 4.3   | 3.2   | 4.8    |
| 236       | 26.1  | 21.0  | 31.6   |







#78

Pyrene

Concen: 9.001 ng

RT: 19.736 min Scan# 2852

Delta R.T. -0.011 min

Lab File: BG061096.D

Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL

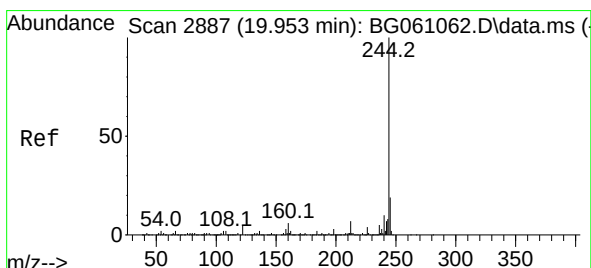
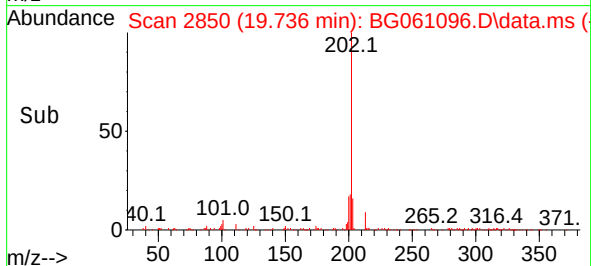
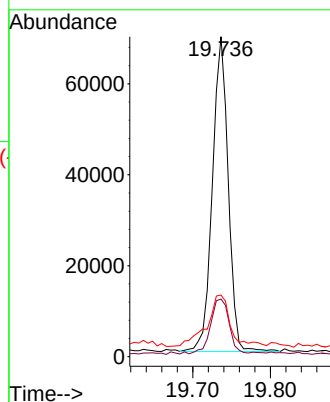
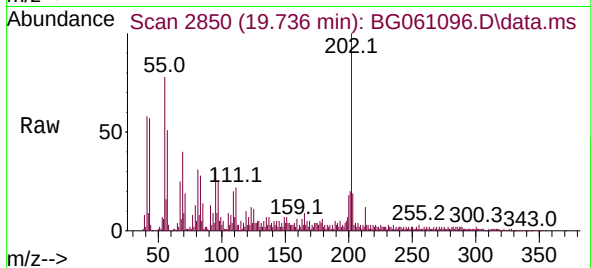
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 9834 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 18.0  | 16.2  | 24.4 |
| 203       | 19.2  | 13.3  | 19.9 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#79

Terphenyl-d14

Concen: 19.638 ng

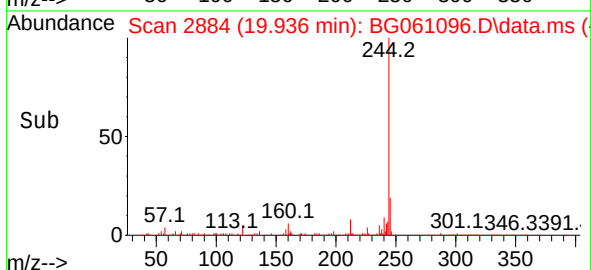
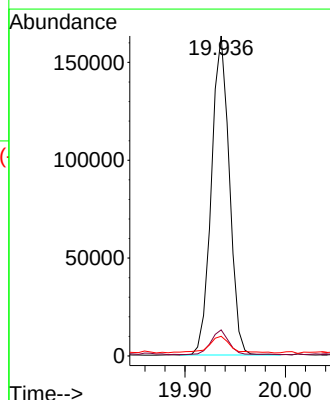
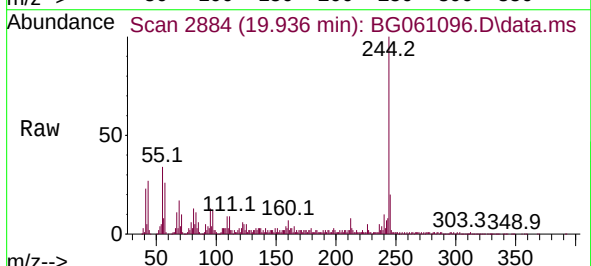
RT: 19.936 min Scan# 2884

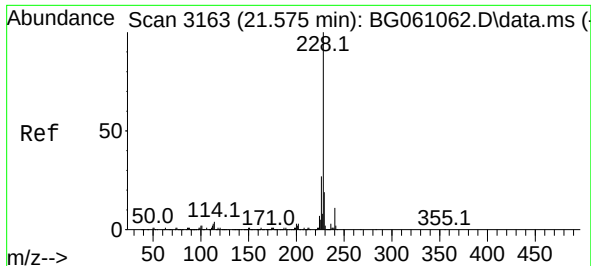
Delta R.T. -0.017 min

Lab File: BG061096.D

Acq: 2 May 2024 16:46

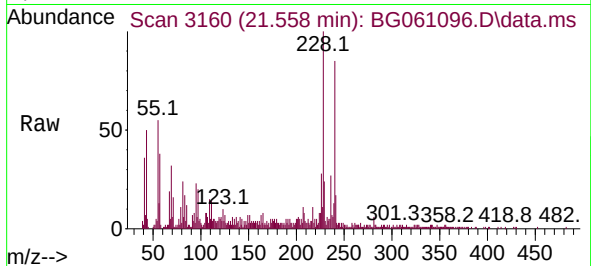
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 202929 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 8.2   | 5.7   | 8.5    |
| 122       | 6.2   | 4.2   | 6.2    |





#81  
Benzo(a)anthracene  
Concen: 4.833 ng m  
RT: 21.558 min Scan# 3160  
Delta R.T. -0.017 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46

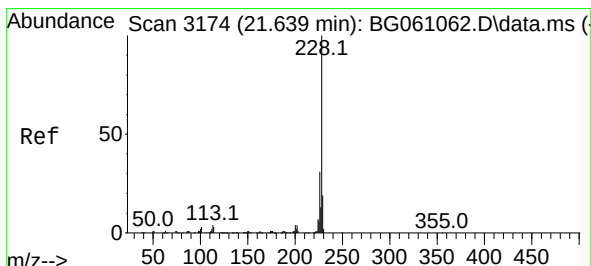
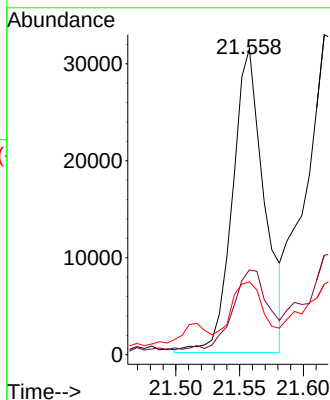
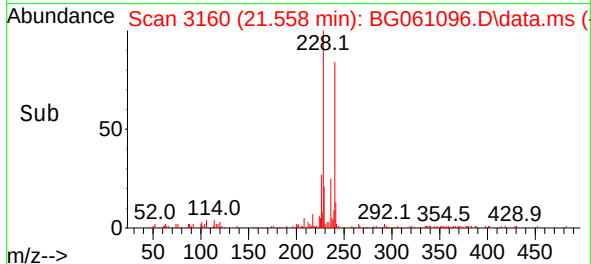
Instrument :  
BNA\_G  
ClientSampleId :  
RB21155-SOIL



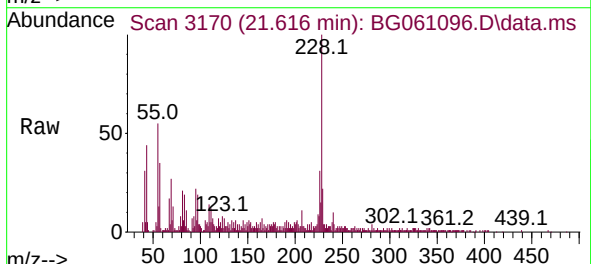
Tgt Ion:228 Resp: 5435  
Ion Ratio Lower Upper  
228 100  
226 27.7 21.6 32.4  
229 23.8 15.0 22.4

Manual Integrations  
APPROVED

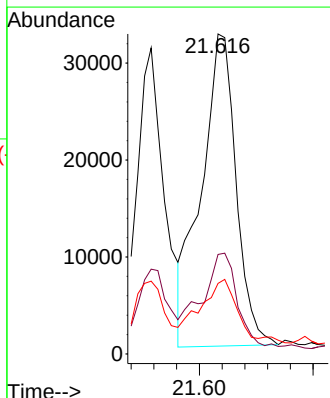
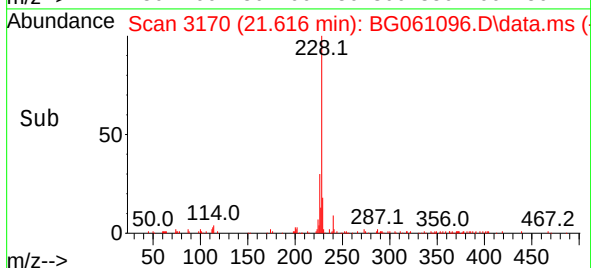
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024

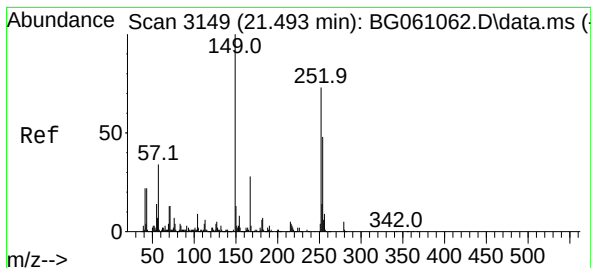


#83  
Chrysene  
Concen: 6.542 ng  
RT: 21.616 min Scan# 3170  
Delta R.T. -0.023 min  
Lab File: BG061096.D  
Acq: 2 May 2024 16:46



Tgt Ion:228 Resp: 68934  
Ion Ratio Lower Upper  
228 100  
226 31.1 24.4 36.6  
229 22.0 14.8 22.2





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.013 ng

RT: 21.475 min Scan# 3149

Delta R.T. -0.017 min

Lab File: BG061096.D

Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL

Tgt Ion:149 Resp: 18124

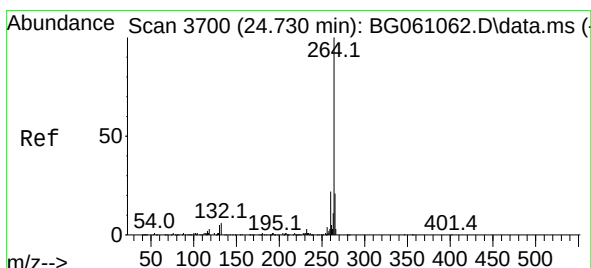
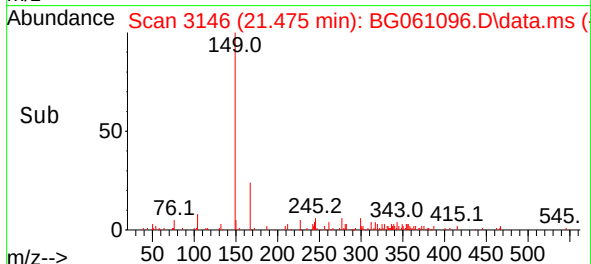
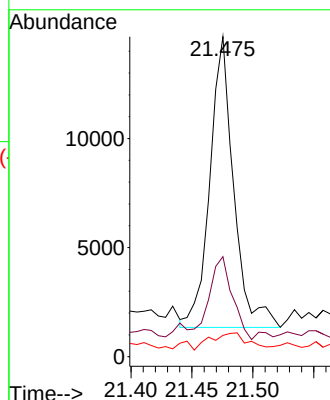
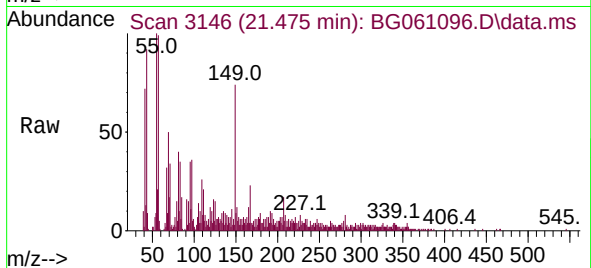
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 31.3  | 22.1  | 33.1  |
| 279 | 6.6   | 4.1   | 6.1   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.701 min Scan# 3695

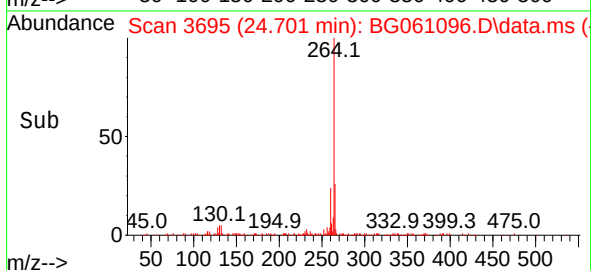
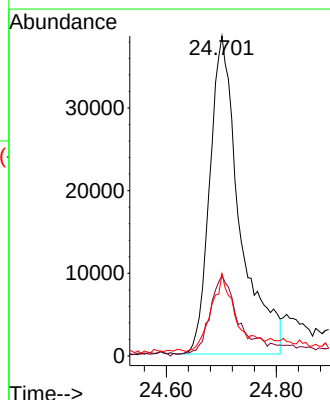
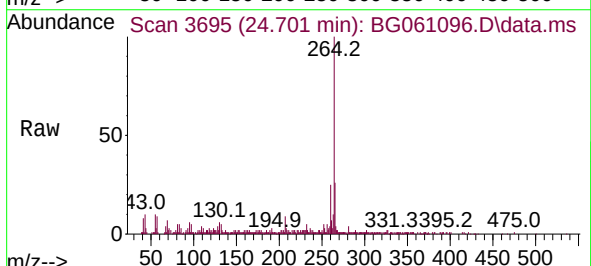
Delta R.T. -0.029 min

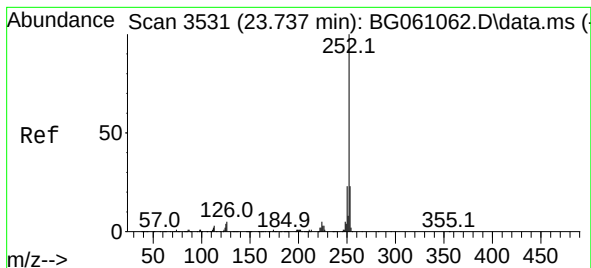
Lab File: BG061096.D

Acq: 2 May 2024 16:46

Tgt Ion:264 Resp: 145823

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.2  | 17.7  | 26.5  |
| 265 | 25.7  | 16.4  | 24.6  |





#88

Benzo(b)fluoranthene

Concen: 9.770 ng

RT: 23.714 min Scan# 3527

Delta R.T. -0.023 min

Lab File: BG061096.D

Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL

Tgt Ion:252 Resp: 79612

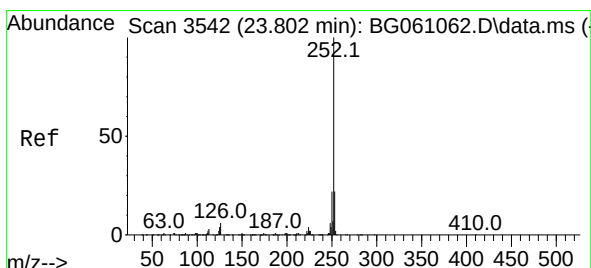
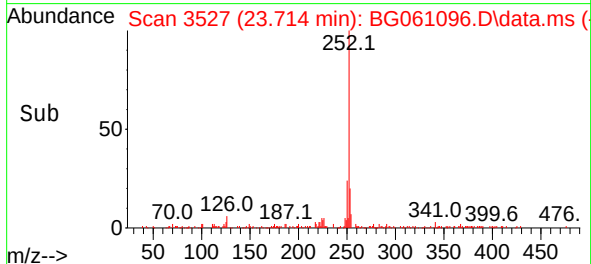
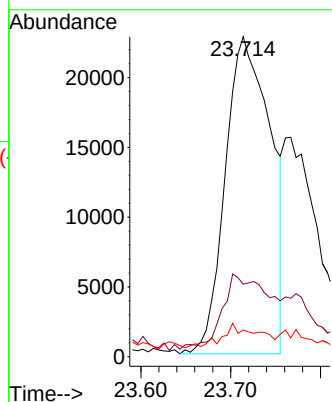
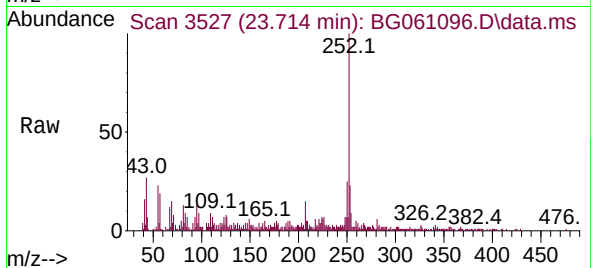
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.7  | 18.2  | 27.2  |
| 125 | 8.3   | 3.4   | 5.0   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#89

Benzo(k)fluoranthene

Concen: 5.595 ng m

RT: 23.767 min Scan# 3536

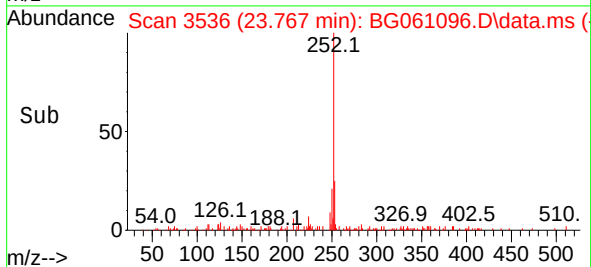
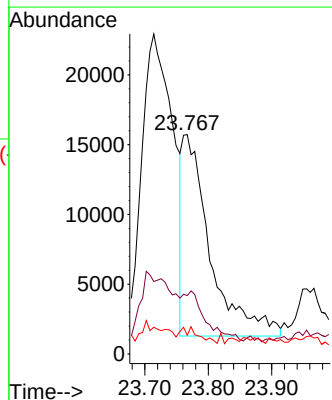
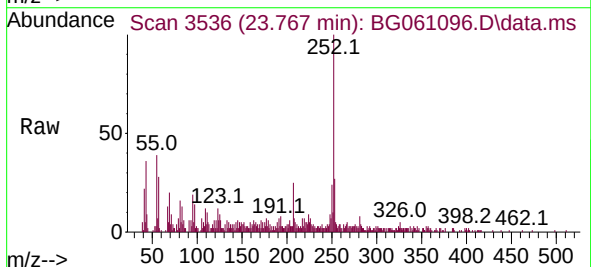
Delta R.T. -0.035 min

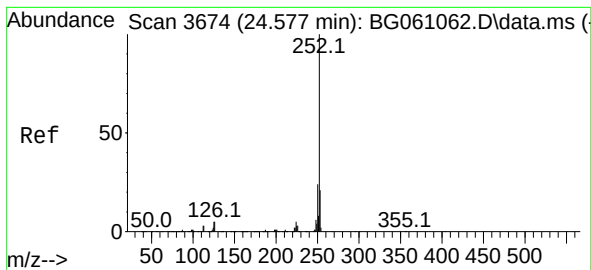
Lab File: BG061096.D

Acq: 2 May 2024 16:46

Tgt Ion:252 Resp: 43864

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.6  | 17.3  | 25.9# |
| 125 | 8.6   | 3.2   | 4.8#  |





#90

Benzo(a)pyrene

Concen: 5.696 ng

RT: 24.554 min Scan# 30

Delta R.T. -0.023 min

Lab File: BG061096.D

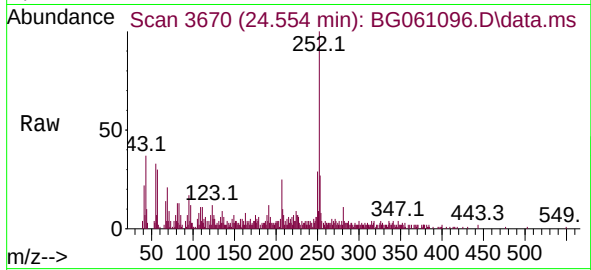
Acq: 2 May 2024 16:46

Instrument :

BNA\_G

ClientSampleId :

RB21155-SOIL



Tgt Ion:252 Resp: 40438

Ion Ratio Lower Upper

252 100

253 26.6 16.9 25.3

125 6.8 3.8 5.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024

