

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG111621\  
 Data File : BG051055.D  
 Acq On : 16 Nov 2021 00:11  
 Operator : CG/JU  
 Sample : M4687-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VWE-B35-111221-0-10

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 11/16/2021  
 Supervised By :mohammad ahmed 11/17/2021

Quant Time: Nov 16 02:23:57 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 15 03:55:35 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.224  | 152  | 42806    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.050 | 136  | 189765   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.852 | 164  | 122927   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.595 | 188  | 239677   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.896 | 240  | 209513   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 25.310 | 264  | 209760   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.762  | 112  | 37982    | 13.273 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.372  | 99   | 290776   | 71.993 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.399  | 82   | 232474   | 54.229 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.338 | 330  | 3085     | 2.508  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.471 | 172  | 457079   | 58.750 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.186 | 244  | 601435   | 52.526 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene              | 17.636 | 178  | 203006   | 15.879 | ng    | 97       |
| 72) Anthracene                | 17.730 | 178  | 45295    | 3.562  | ng    | 99       |
| 75) Fluoranthene              | 19.640 | 202  | 291970   | 18.615 | ng    | 96       |
| 78) Pyrene                    | 20.004 | 202  | 277349   | 17.646 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.879 | 228  | 123771   | 8.603  | ng    | 96       |
| 83) Chrysene                  | 21.943 | 228  | 108703   | 8.010  | ng    | # 92     |
| 84) Bis(2-ethylhexyl)phtha... | 21.743 | 149  | 172490   | 18.132 | ng    | # 96     |
| 87) Indeno(1,2,3-cd)pyrene    | 29.235 | 276  | 58138    | 3.905  | ng    | # 90     |
| 88) Benzo(b)fluoranthene      | 24.217 | 252  | 140898   | 10.671 | ng    | # 87     |
| 89) Benzo(k)fluoranthene      | 24.288 | 252  | 43300m   | 3.288  | ng    |          |
| 90) Benzo(a)pyrene            | 25.145 | 252  | 106413   | 9.440  | ng    | # 91     |
| 92) Benzo(g,h,i)perylene      | 30.463 | 276  | 57507    | 4.767  | ng    | # 93     |
| -----                         |        |      |          |        |       |          |

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

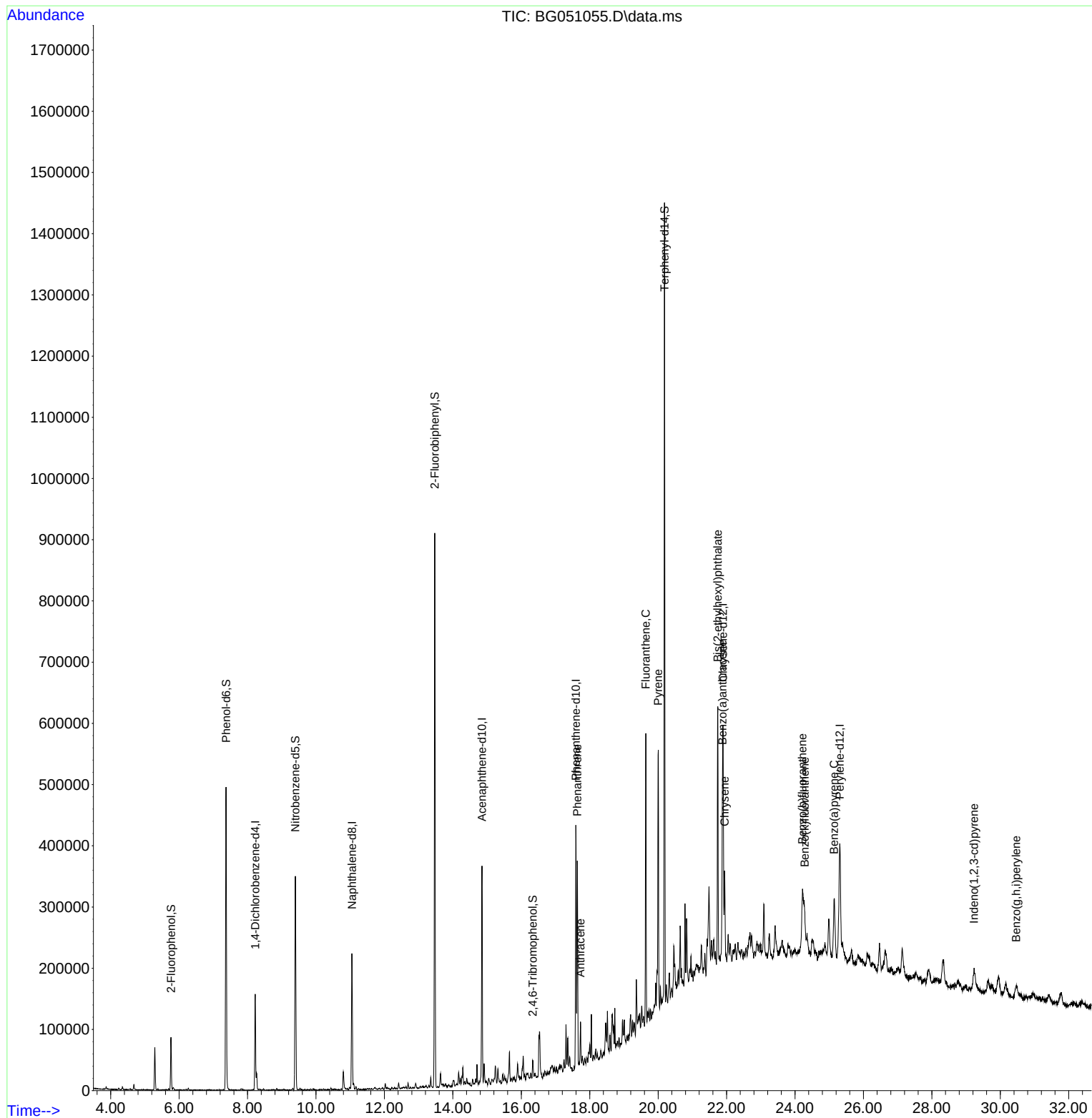
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG111621\  
Data File : BG051055.D  
Acq On : 16 Nov 2021 00:11  
Operator : CG/JU  
Sample : M4687-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

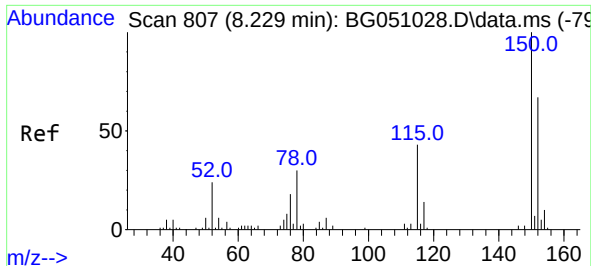
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10

Quant Time: Nov 16 02:23:57 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 15 03:55:35 2021  
Response via : Initial Calibration

Manual Integrations  
APPROVED

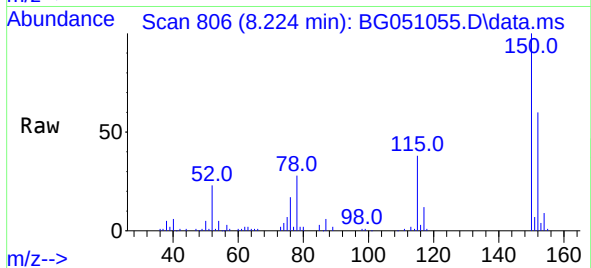
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.224 min Scan# 807  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

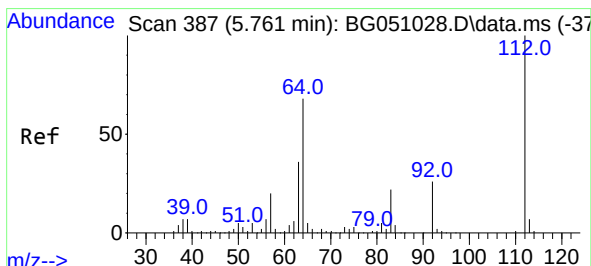
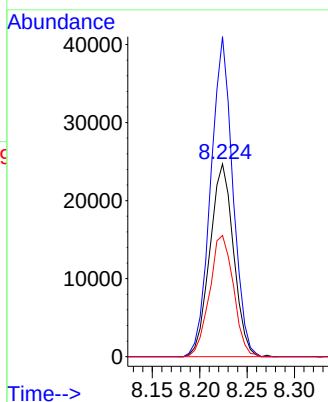
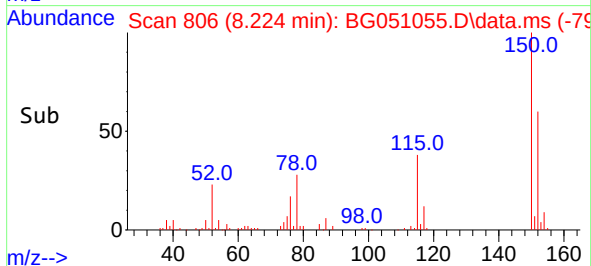
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



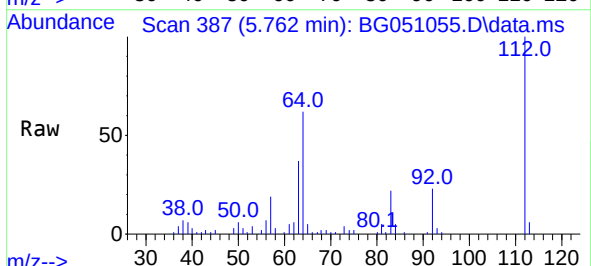
Tgt Ion:152 Resp: 42800  
Ion Ratio Lower Upper  
152 100  
150 166.0 119.4 179.0  
115 62.9 60.2 90.4

Manual Integrations  
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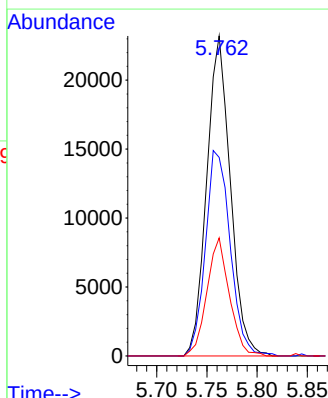
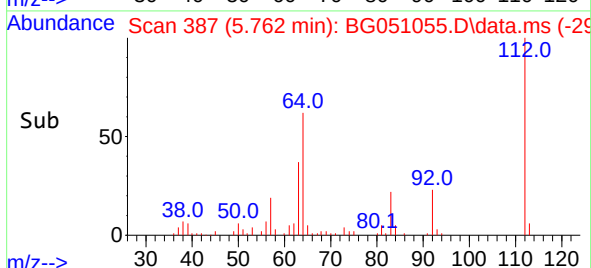
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021

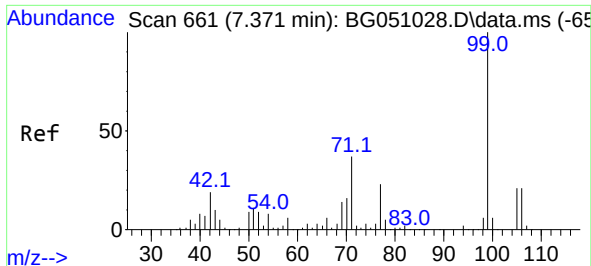


#5  
2-Fluorophenol  
Concen: 13.273 ng  
RT: 5.762 min Scan# 387  
Delta R.T. 0.001 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11



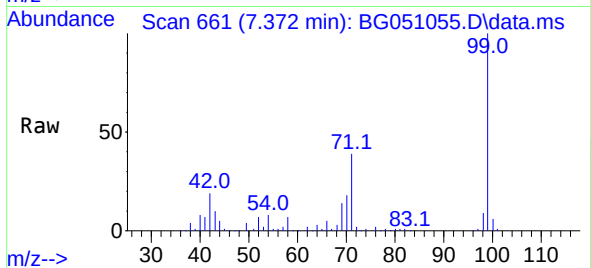
Tgt Ion:112 Resp: 37982  
Ion Ratio Lower Upper  
112 100  
64 62.1 46.7 70.1  
63 36.9 35.3 52.9





#7  
Phenol-d6  
Concen: 71.993 ng  
RT: 7.372 min Scan# 60  
Delta R.T. 0.001 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

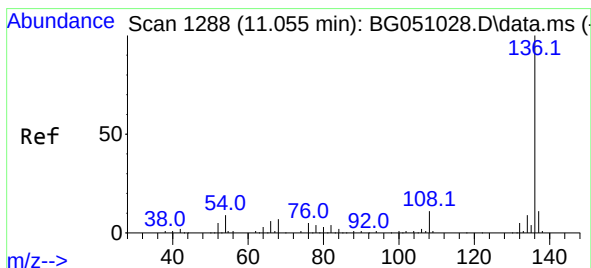
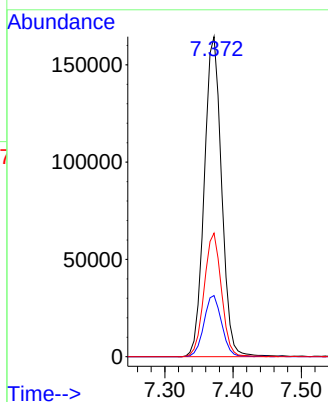
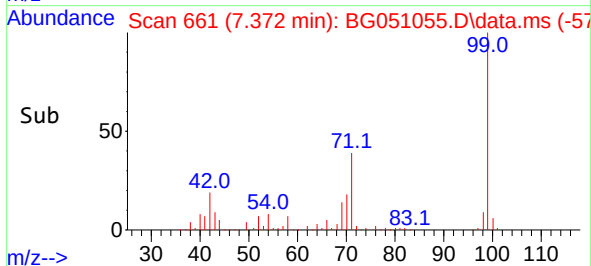
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



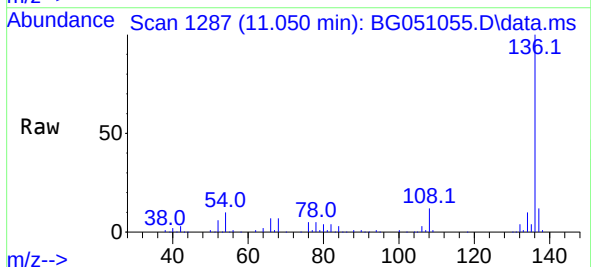
Tgt Ion: 99 Resp: 290770  
Ion Ratio Lower Upper  
99 100  
42 19.1 20.5 30.7  
71 38.6 41.5 62.3

Manual Integrations  
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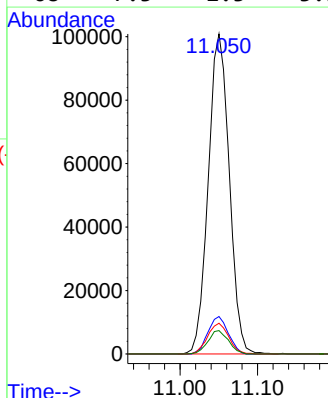
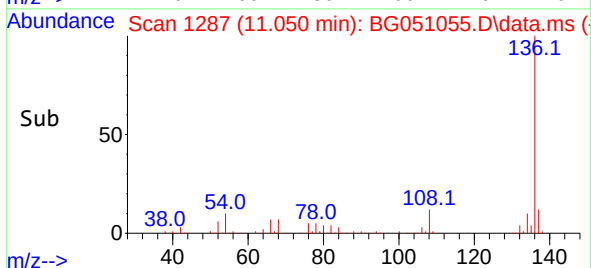
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021

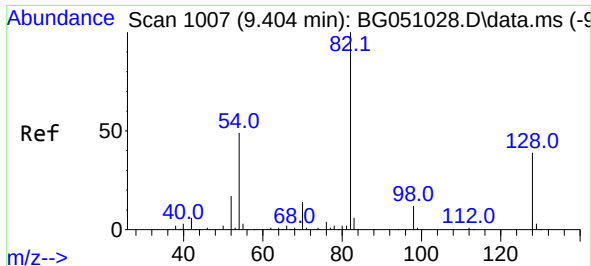


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.050 min Scan# 1287  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11



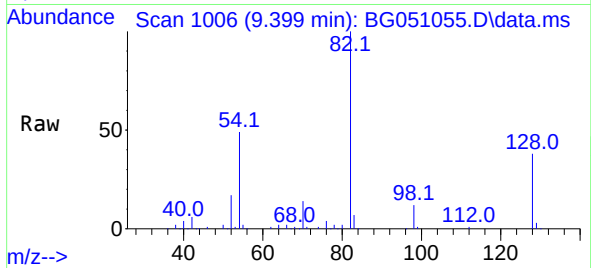
Tgt Ion:136 Resp: 189765  
Ion Ratio Lower Upper  
136 100  
137 11.7 8.2 12.2  
54 9.6 5.5 8.3#  
68 7.3 2.3 3.5#





#23  
Nitrobenzene-d5  
Concen: 54.229 ng  
RT: 9.399 min Scan# 1006  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

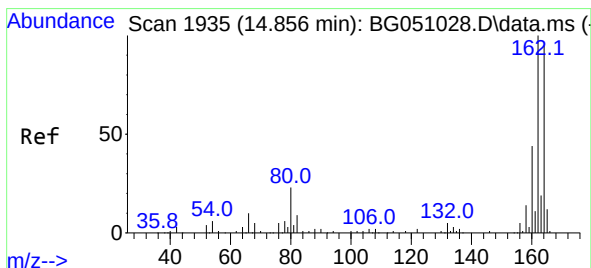
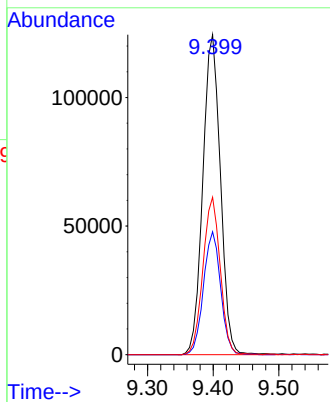
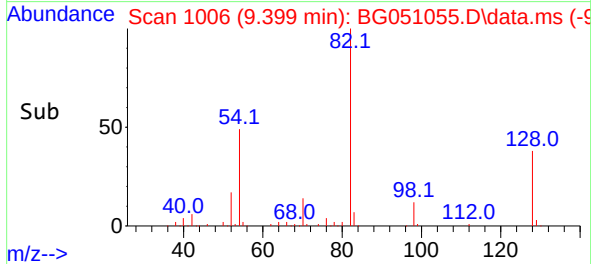
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



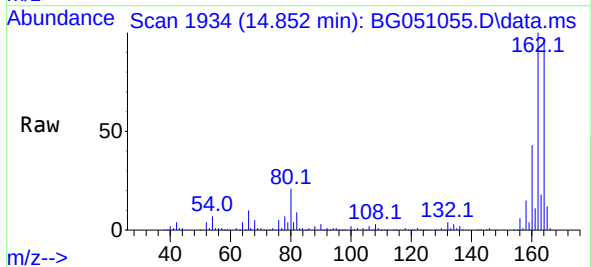
Tgt Ion: 82 Resp: 232474  
Ion Ratio Lower Upper  
82 100  
128 38.4 29.8 44.6  
54 49.2 45.8 68.8

Manual Integrations  
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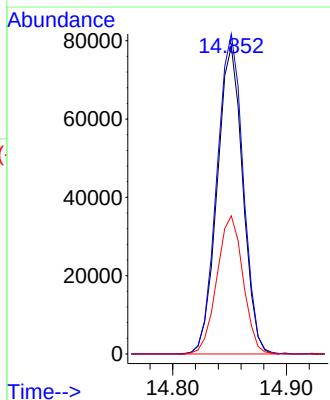
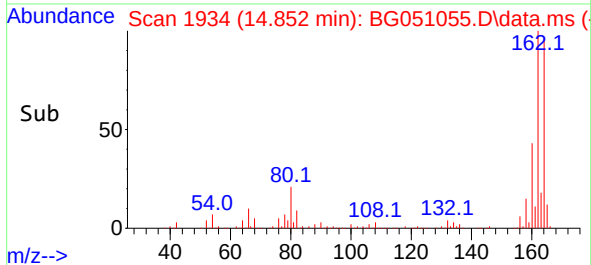
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021

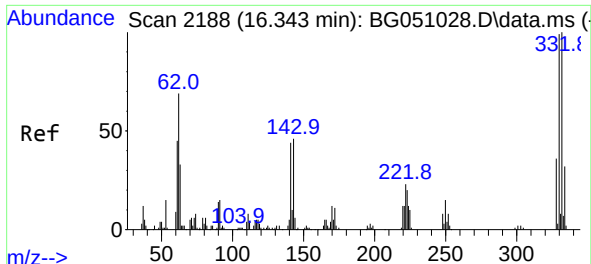


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.852 min Scan# 1934  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11



Tgt Ion:164 Resp: 122927  
Ion Ratio Lower Upper  
164 100  
162 104.0 81.4 122.0  
160 44.9 34.9 52.3





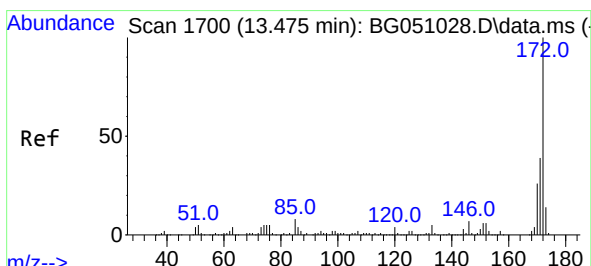
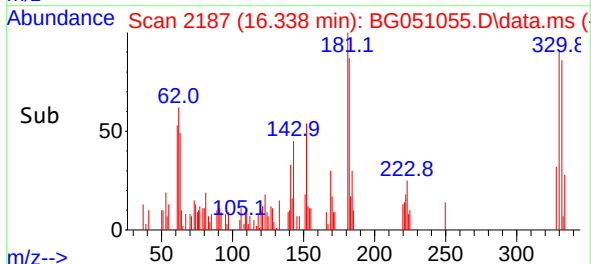
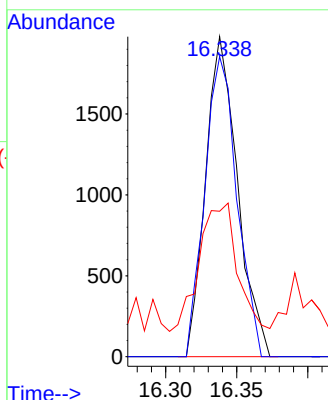
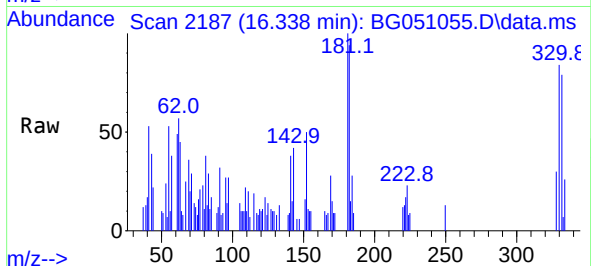
#42  
2,4,6-Tribromophenol  
Concen: 2.508 ng  
RT: 16.338 min Scan# 2188  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10

Tgt Ion:330 Resp: 308  
Ion Ratio Lower Upper  
330 100  
332 94.8 77.3 115.9  
141 58.4 35.6 53.4

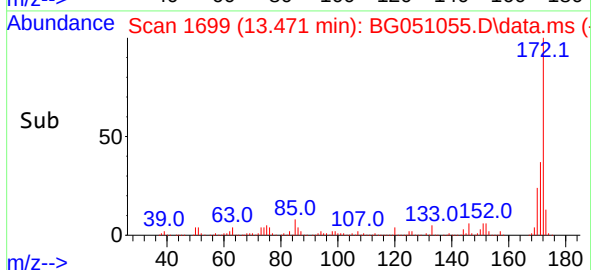
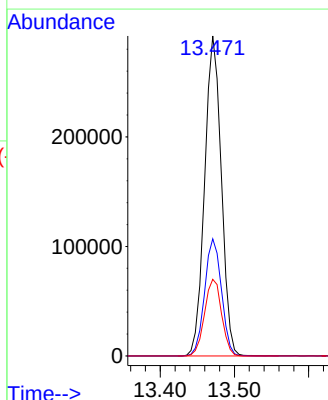
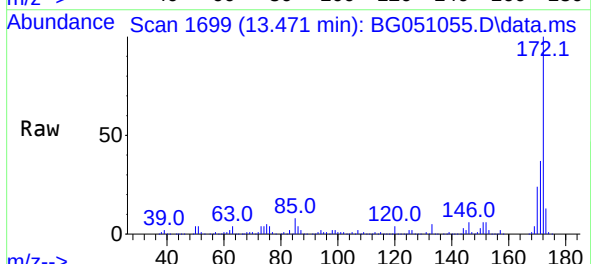
Manual Integrations  
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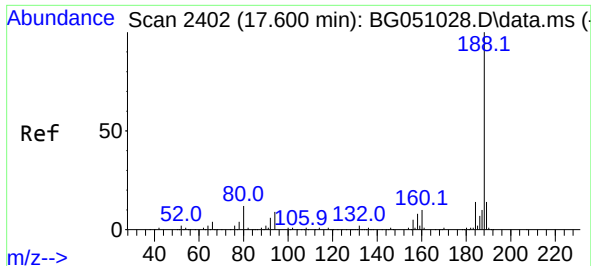
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021



#45  
2-Fluorobiphenyl  
Concen: 58.750 ng  
RT: 13.471 min Scan# 1699  
Delta R.T. -0.004 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

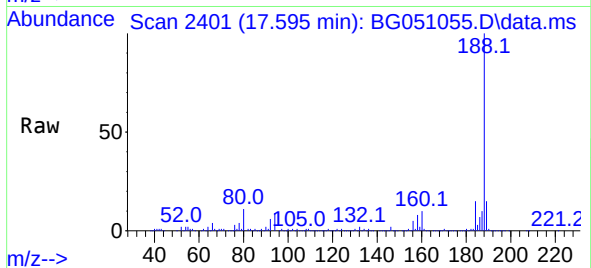
Tgt Ion:172 Resp: 457079  
Ion Ratio Lower Upper  
172 100  
171 36.6 28.6 43.0  
170 23.9 18.6 27.8





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.595 min Scan# 2401  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

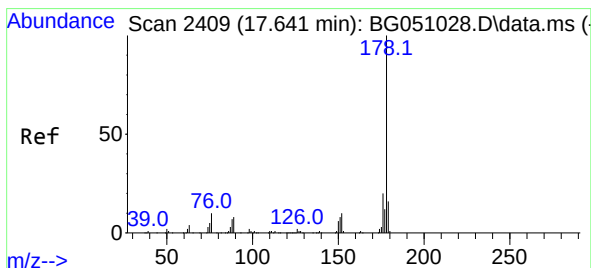
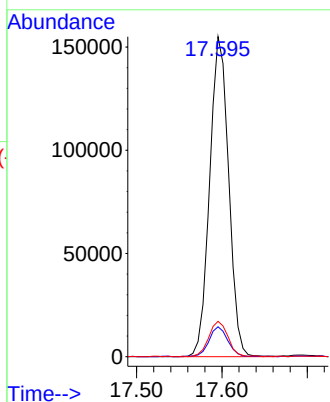
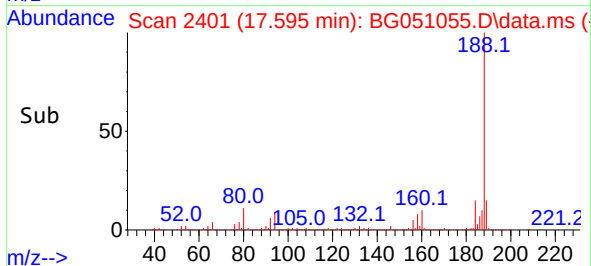
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



Tgt Ion:188 Resp: 23967  
Ion Ratio Lower Upper  
188 100  
94 9.3 5.4 8.0  
80 11.1 3.7 5.5

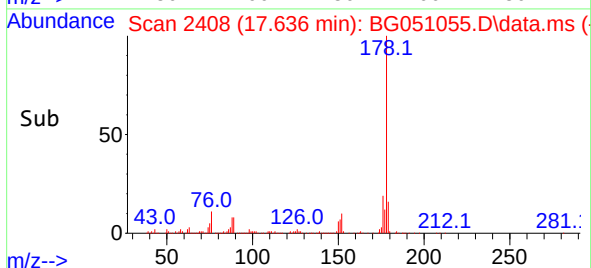
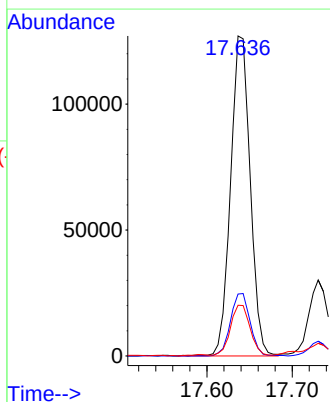
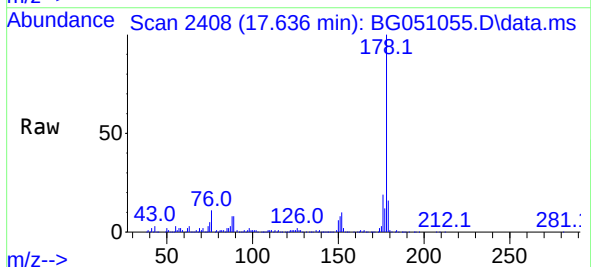
Manual Integrations  
APPROVED

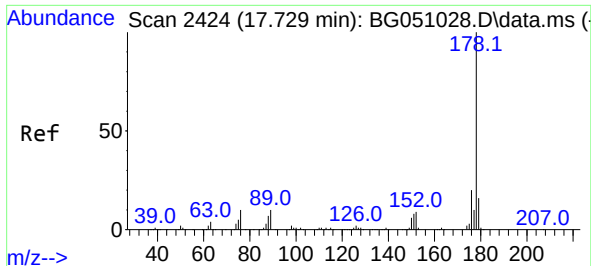
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021



#71  
Phenanthrene  
Concen: 15.879 ng  
RT: 17.636 min Scan# 2408  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

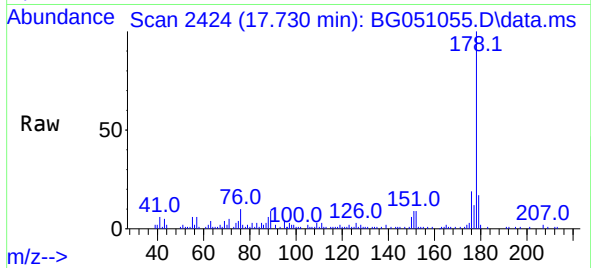
Tgt Ion:178 Resp: 203006  
Ion Ratio Lower Upper  
178 100  
176 19.3 16.0 24.0  
179 15.8 14.2 21.4





#72  
 Anthracene  
 Concen: 3.562 ng  
 RT: 17.730 min Scan# 2424  
 Delta R.T. 0.001 min  
 Lab File: BG051055.D  
 Acq: 16 Nov 2021 00:11

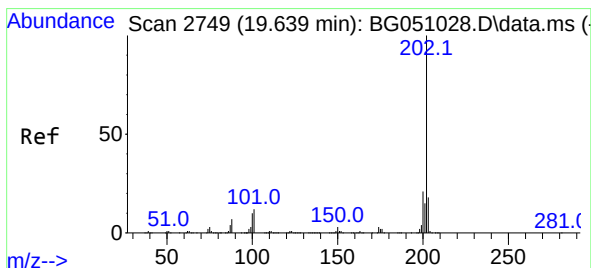
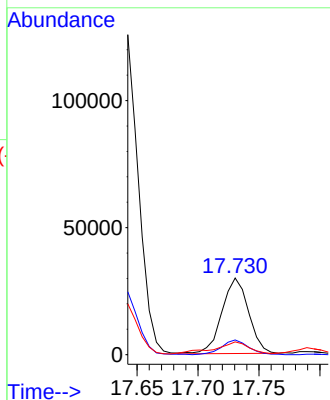
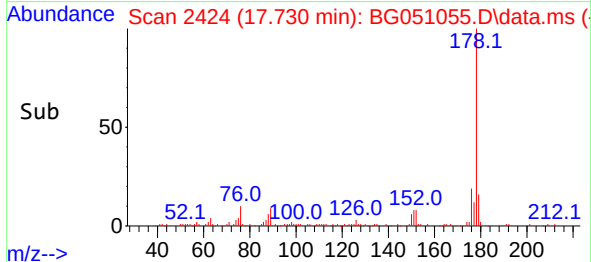
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VWE-B35-111221-0-10



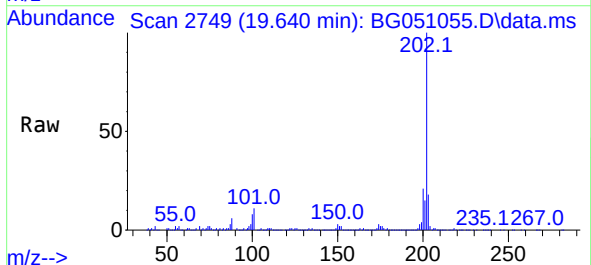
Tgt Ion:178 Resp: 45295  
 Ion Ratio Lower Upper  
 178 100  
 176 19.3 14.6 21.8  
 179 16.7 13.4 20.0

Manual Integrations  
 APPROVED

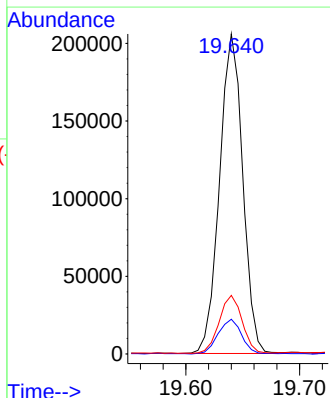
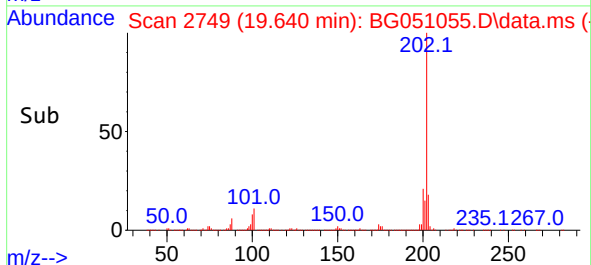
Reviewed By :Jagrut Upadhyay 11/16/2021  
 Supervised By :mohammad ahmed 11/17/2021



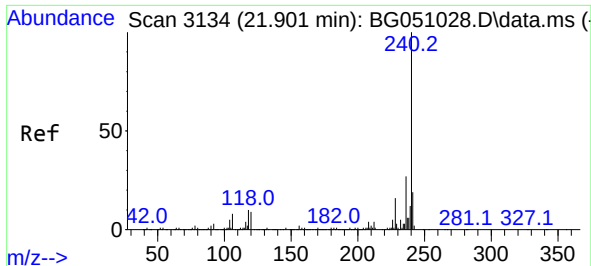
#75  
 Fluoranthene  
 Concen: 18.615 ng  
 RT: 19.640 min Scan# 2749  
 Delta R.T. 0.001 min  
 Lab File: BG051055.D  
 Acq: 16 Nov 2021 00:11



Tgt Ion:202 Resp: 291970  
 Ion Ratio Lower Upper  
 202 100  
 101 10.8 0.0 24.7  
 203 18.3 0.0 38.5

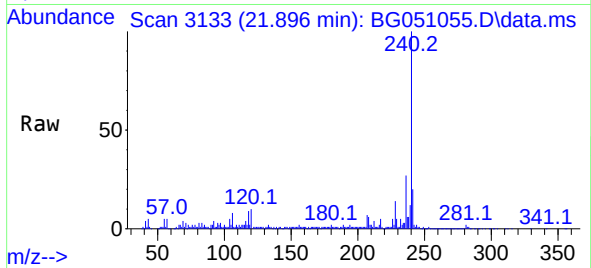






#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.896 min Scan# 3134  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

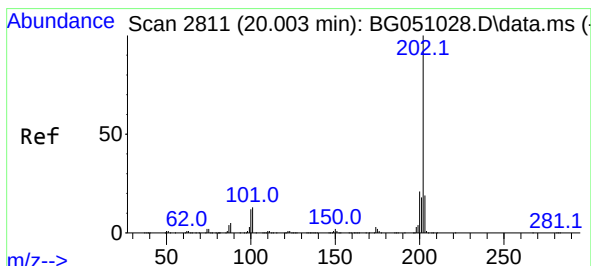
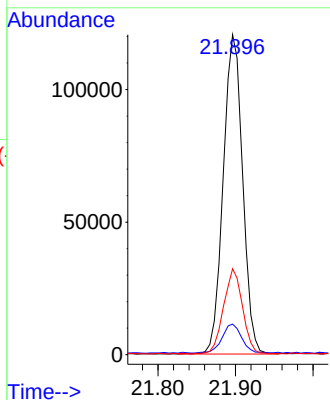
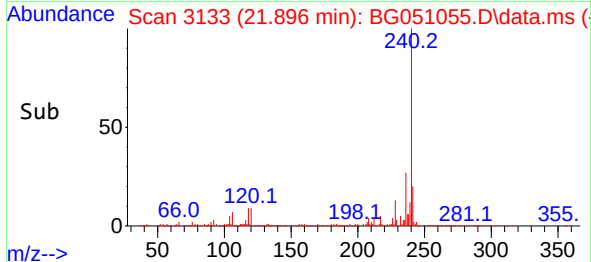
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



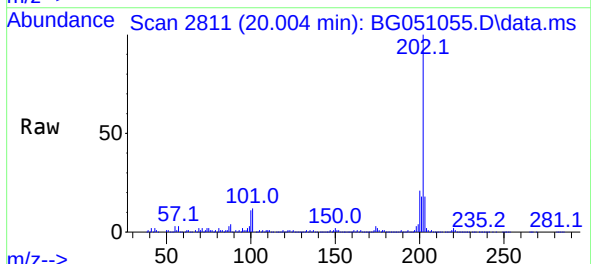
Tgt Ion:240 Resp: 209511  
Ion Ratio Lower Upper  
240 100  
120 9.6 4.2 6.2  
236 26.9 21.8 32.6

Manual Integrations  
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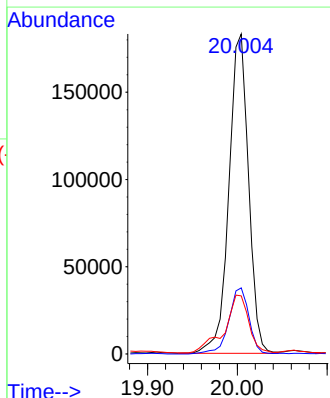
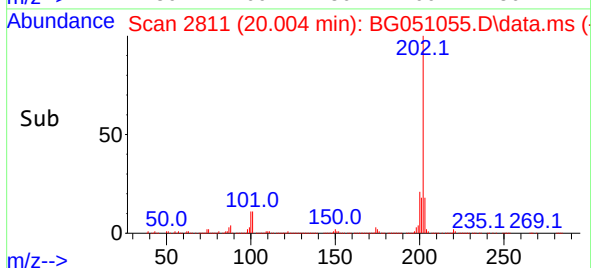
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021

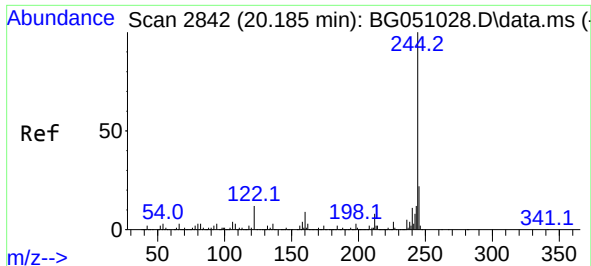


#78  
Pyrene  
Concen: 17.646 ng  
RT: 20.004 min Scan# 2811  
Delta R.T. 0.001 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11



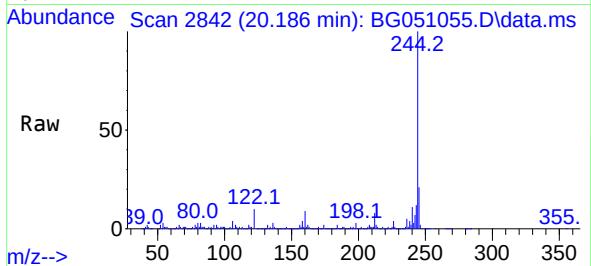
Tgt Ion:202 Resp: 277349  
Ion Ratio Lower Upper  
202 100  
200 20.6 15.8 23.8  
203 18.2 14.6 21.8





#79  
 Terphenyl-d14  
 Concen: 52.526 ng  
 RT: 20.186 min Scan# 20143  
 Delta R.T. 0.001 min  
 Lab File: BG051055.D  
 Acq: 16 Nov 2021 00:11

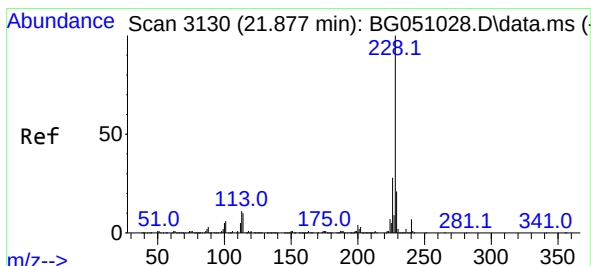
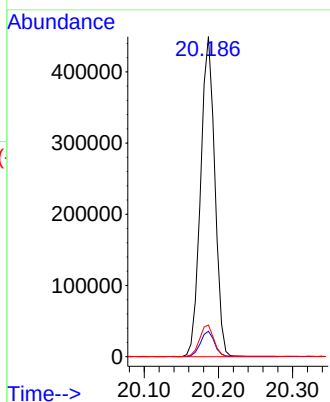
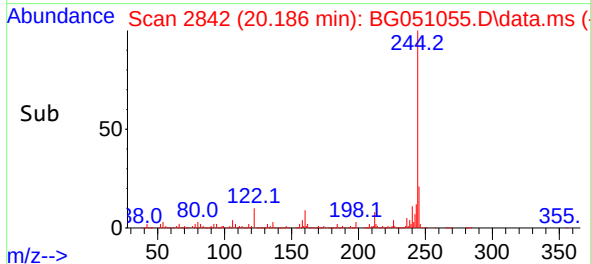
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VWE-B35-111221-0-10



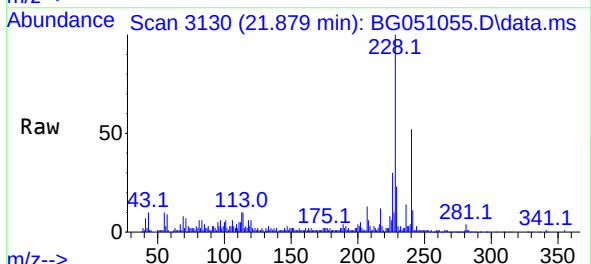
Tgt Ion:244 Resp: 601435  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 6.9 10.3  
 122 9.9 5.0 7.6

Manual Integrations  
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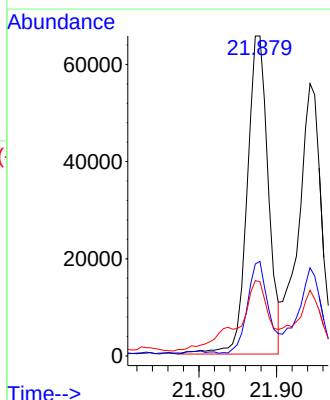
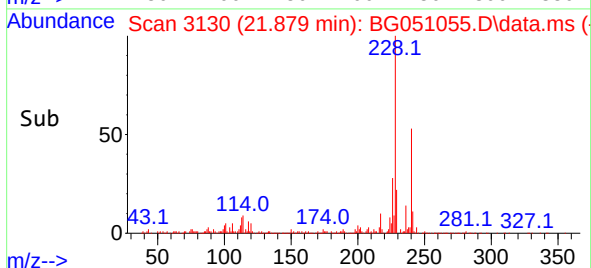
Reviewed By :Jagrut Upadhyay 11/16/2021  
 Supervised By :mohammad ahmed 11/17/2021

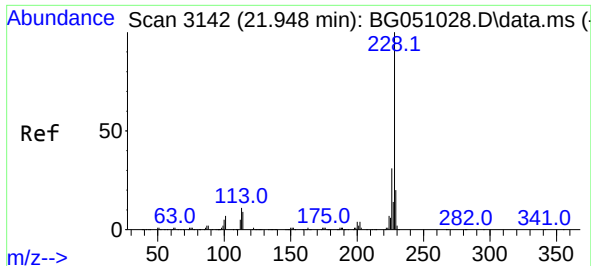


#81  
 Benzo(a)anthracene  
 Concen: 8.603 ng  
 RT: 21.879 min Scan# 3130  
 Delta R.T. 0.001 min  
 Lab File: BG051055.D  
 Acq: 16 Nov 2021 00:11



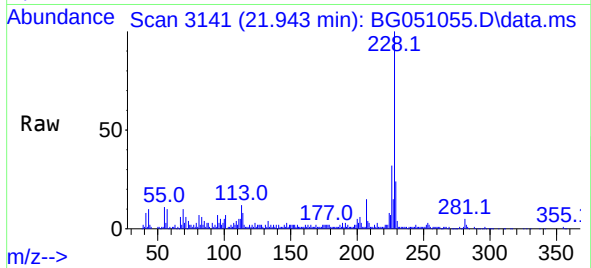
Tgt Ion:228 Resp: 123771  
 Ion Ratio Lower Upper  
 228 100  
 226 29.5 22.7 34.1  
 229 23.2 16.0 24.0





#83  
Chrysene  
Concen: 8.010 ng  
RT: 21.943 min Scan# 3142  
Delta R.T. -0.005 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

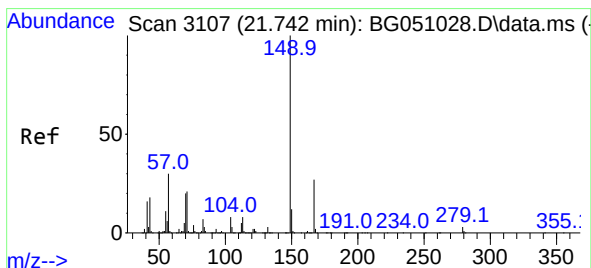
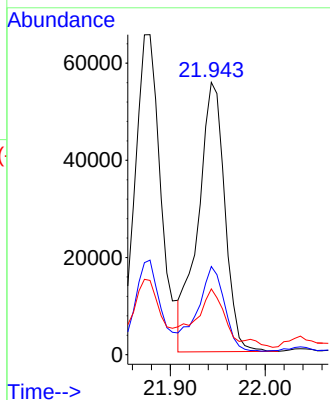
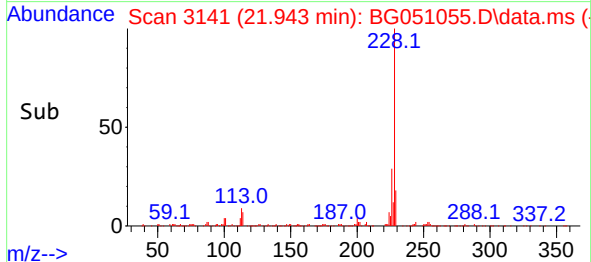
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



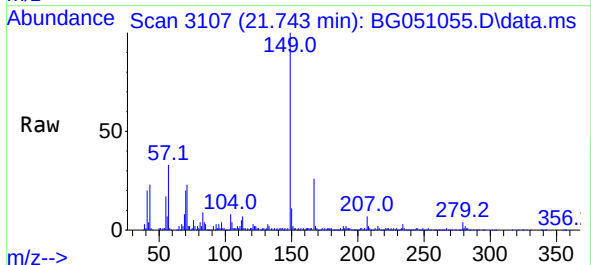
Tgt Ion:228 Resp: 108700  
Ion Ratio Lower Upper  
228 100  
226 32.4 23.1 34.7  
229 24.2 15.3 22.9

Manual Integrations  
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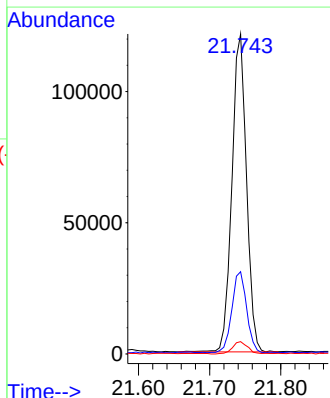
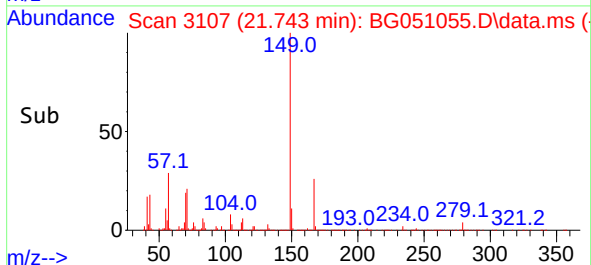
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021

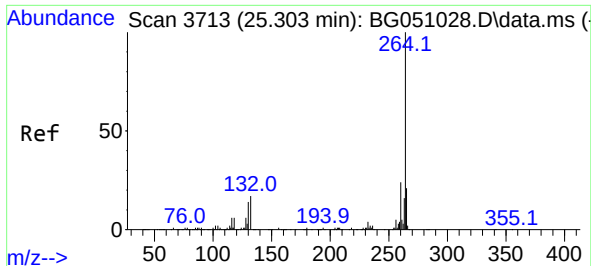


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 18.132 ng  
RT: 21.743 min Scan# 3107  
Delta R.T. 0.001 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11



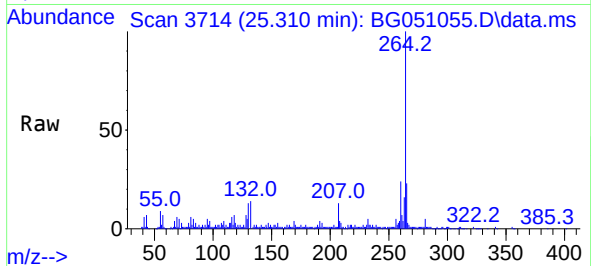
Tgt Ion:149 Resp: 172490  
Ion Ratio Lower Upper  
149 100  
167 25.7 22.3 33.5  
279 3.8 3.8 5.8





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.310 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

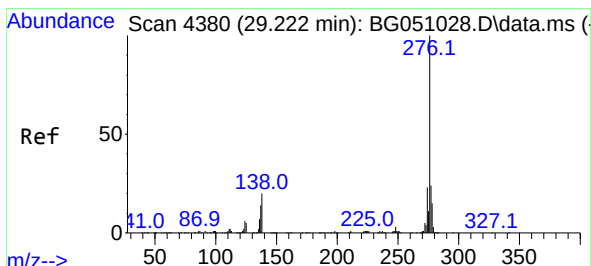
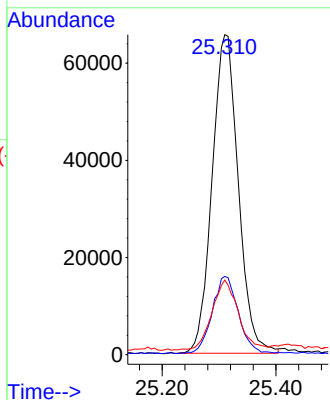
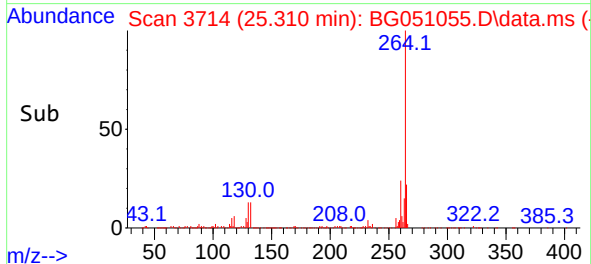
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



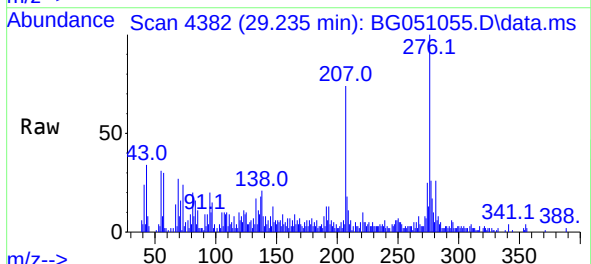
Tgt Ion:264 Resp: 209760  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.4 29.2  
265 23.3 16.9 25.3

Manual Integrations  
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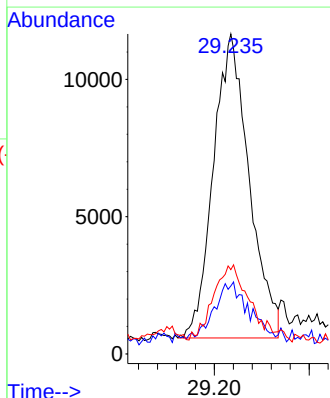
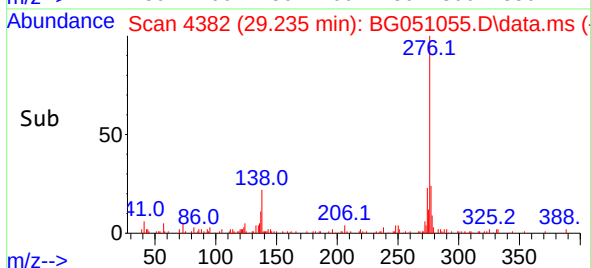
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021

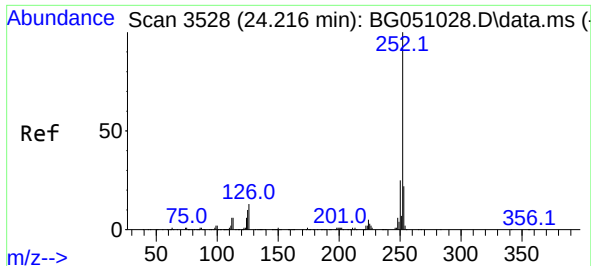


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.905 ng  
RT: 29.235 min Scan# 4382  
Delta R.T. 0.013 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11



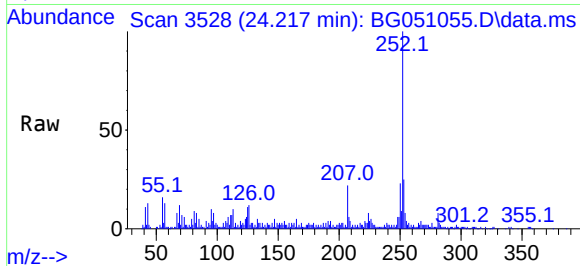
Tgt Ion:276 Resp: 58138  
Ion Ratio Lower Upper  
276 100  
138 18.7 5.1 7.7#  
277 23.4 19.8 29.6





#88  
Benzo(b)fluoranthene  
Concen: 10.671 ng  
RT: 24.217 min Scan# 3528  
Delta R.T. 0.001 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

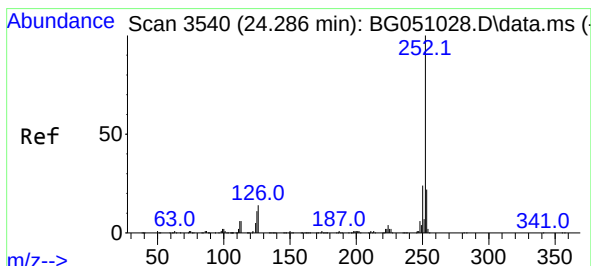
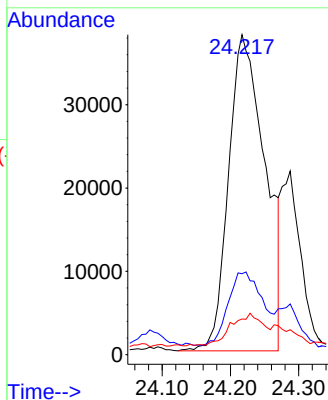
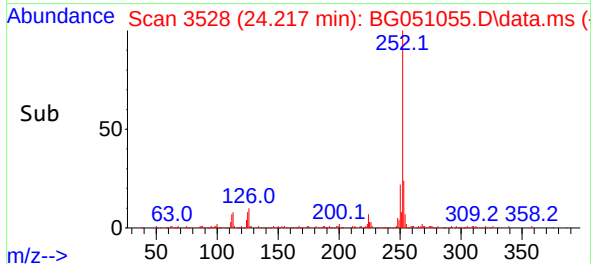
Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10



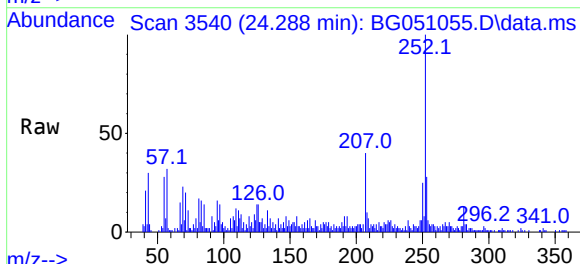
Tgt Ion:252 Resp: 140898  
Ion Ratio Lower Upper  
252 100  
253 25.3 16.2 24.4#  
125 11.1 3.0 4.4#

Manual Integrations  
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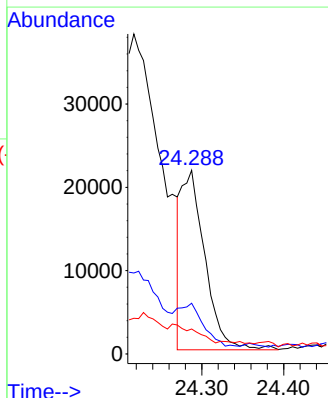
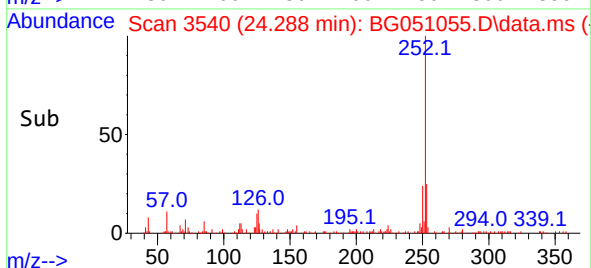
Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021

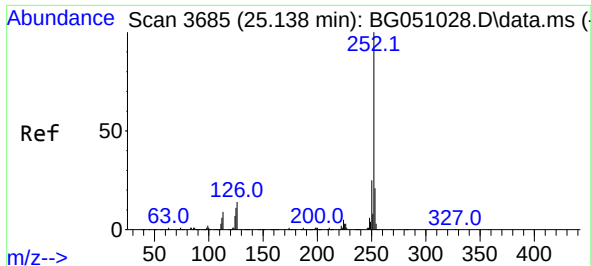


#89  
Benzo(k)fluoranthene  
Concen: 3.288 ng m  
RT: 24.288 min Scan# 3540  
Delta R.T. 0.001 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11



Tgt Ion:252 Resp: 43300  
Ion Ratio Lower Upper  
252 100  
253 27.6 18.0 27.0#  
125 13.6 3.1 4.7#





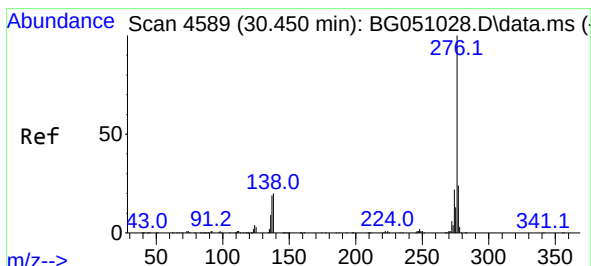
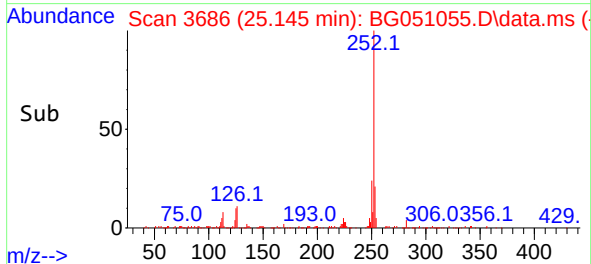
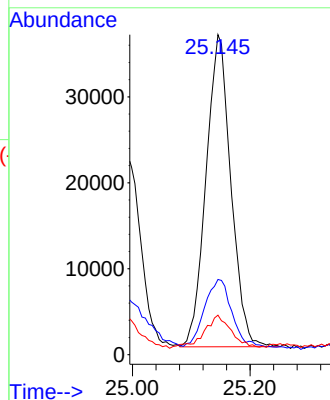
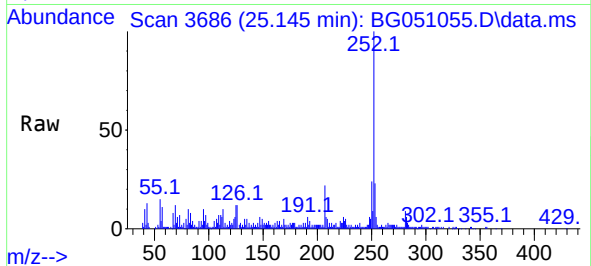
#90  
Benzo(a)pyrene  
Concen: 9.440 ng  
RT: 25.145 min Scan# 30  
Delta R.T. 0.007 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

Instrument :  
BNA\_G  
ClientSampleId :  
VWE-B35-111221-0-10

Tgt Ion:252 Resp: 10641  
Ion Ratio Lower Upper  
252 100  
253 23.5 16.6 25.0  
125 12.4 3.5 5.3

Manual Integrations  
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Reviewed By :Jagrut Upadhyay 11/16/2021  
Supervised By :mohammad ahmed 11/17/2021



#92  
Benzo(g,h,i)perylene  
Concen: 4.767 ng  
RT: 30.463 min Scan# 4591  
Delta R.T. 0.013 min  
Lab File: BG051055.D  
Acq: 16 Nov 2021 00:11

Tgt Ion:276 Resp: 57507  
Ion Ratio Lower Upper  
276 100  
277 22.6 18.4 27.6  
138 16.7 7.0 10.6

