

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110119\  
 Data File : BG043477.D  
 Acq On : 1 Nov 2019 22:28  
 Operator : JU  
 Sample : K5147-08 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OK-01-103019

Quant Time: Nov 22 05:37:53 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 19 15:23:15 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 57205    | 20.00 | ng    | 0.02     |
| 21) Naphthalene-d8        | 10.82 | 136  | 212888   | 20.00 | ng    | 0.03     |
| 39) Acenaphthene-d10      | 14.64 | 164  | 141959   | 20.00 | ng    | 0.02     |
| 64) Phenanthrene-d10      | 17.39 | 188  | 314479   | 20.00 | ng    | 0.02     |
| 76) Chrysene-d12          | 21.66 | 240  | 329134   | 20.00 | ng    | 0.02     |
| 87) Perylene-d12          | 24.85 | 264  | 405905   | 20.00 | ng    | 0.04     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.60  | 112 | 146727 | 47.00 | ng | 0.02 |
| 7) Phenol-d6                | 7.20  | 99  | 203763 | 45.37 | ng | 0.01 |
| 23) Nitrobenzene-d5         | 9.18  | 82  | 121385 | 29.40 | ng | 0.02 |
| 42) 2,4,6-Tribromophenol    | 16.13 | 330 | 107017 | 39.61 | ng | 0.02 |
| 45) 2-Fluorobiphenyl        | 13.27 | 172 | 310215 | 30.20 | ng | 0.02 |
| 79) Terphenyl-d14           | 19.99 | 244 | 505325 | 28.80 | ng | 0.01 |

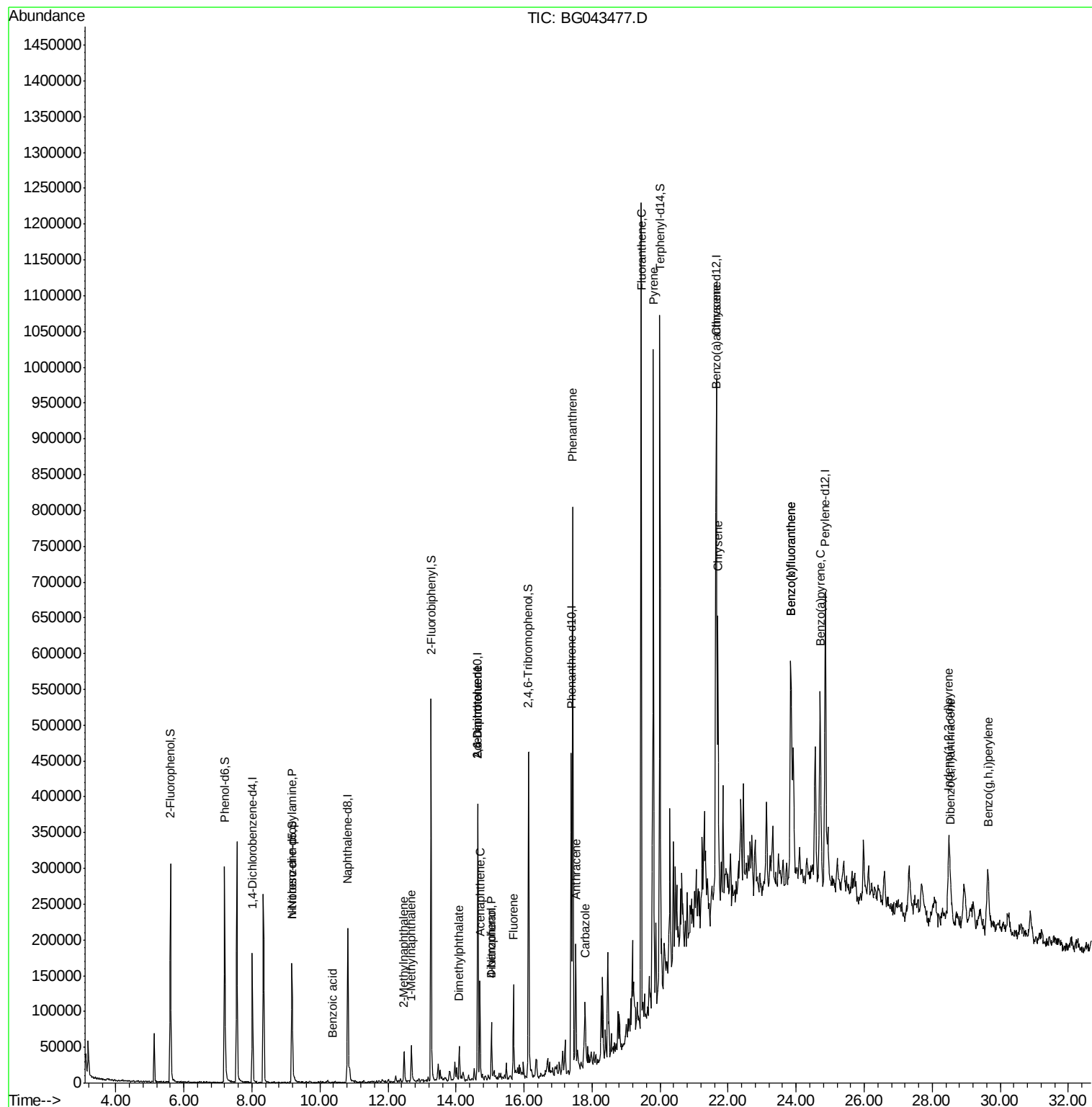
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70  | 15964  | 5.500  | ng | # 63 |
| 32) Benzoic acid               | 10.36 | 122 | 59     | 9.072  | ng | # 1  |
| 37) 2-Methylnaphthalene        | 12.48 | 142 | 26685  | 3.218  | ng | 97   |
| 38) 1-Methylnaphthalene        | 12.69 | 142 | 26356  | 3.341  | ng | # 94 |
| 50) Dimethylphthalate          | 14.09 | 163 | 33169  | 3.017  | ng | 100  |
| 51) 2,6-Dinitrotoluene         | 14.64 | 165 | 20154  | 8.437  | ng | # 28 |
| 52) Acenaphthene               | 14.71 | 154 | 54654  | 7.008  | ng | 94   |
| 55) Dibenzofuran               | 15.04 | 168 | 55011  | 4.350  | ng | 94   |
| 56) 4-Nitrophenol              | 15.04 | 139 | 20526  | 13.281 | ng | # 6  |
| 57) 2,4-Dinitrotoluene         | 14.64 | 165 | 20154  | 5.904  | ng | # 27 |
| 58) Fluorene                   | 15.69 | 166 | 68678  | 6.475  | ng | 100  |
| 71) Phenanthrene               | 17.43 | 178 | 529012 | 32.850 | ng | 99   |
| 72) Anthracene                 | 17.52 | 178 | 119226 | 7.400  | ng | 99   |
| 73) Carbazole                  | 17.79 | 167 | 70492  | 4.831  | ng | 99   |
| 75) Fluoranthene               | 19.44 | 202 | 763159 | 36.351 | ng | 99   |
| 78) Pyrene                     | 19.80 | 202 | 648133 | 31.813 | ng | 99   |
| 81) Benzo(a)anthracene         | 21.63 | 228 | 355662 | 17.251 | ng | # 95 |
| 83) Chrysene                   | 21.70 | 228 | 326842 | 15.956 | ng | 94   |
| 86) Indeno(1,2,3-cd)pyrene     | 28.49 | 276 | 205148 | 7.978  | ng | # 90 |
| 88) Benzo(b)fluoranthene       | 23.84 | 252 | 439382 | 19.113 | ng | # 94 |
| 89) Benzo(k)fluoranthene       | 23.84 | 252 | 439382 | 18.985 | ng | # 95 |
| 90) Benzo(a)pyrene             | 24.71 | 252 | 321659 | 14.652 | ng | 97   |
| 91) Dibenzo(a,h)anthracene     | 28.54 | 278 | 51864  | 2.310  | ng | # 79 |
| 92) Benzo(g,h,i)perylene       | 29.64 | 276 | 205033 | 9.257  | ng | 98   |

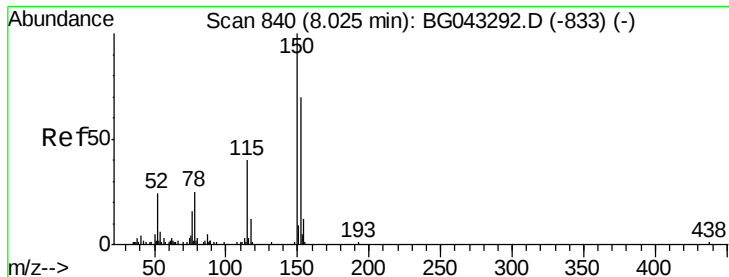
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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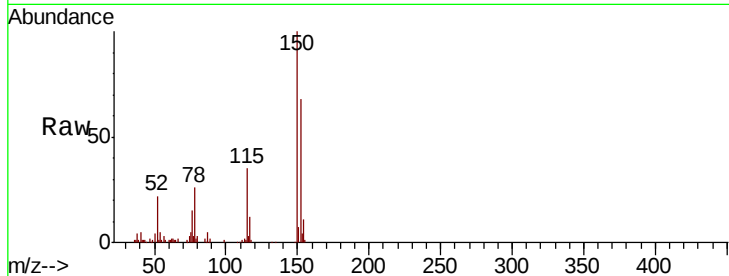


#1

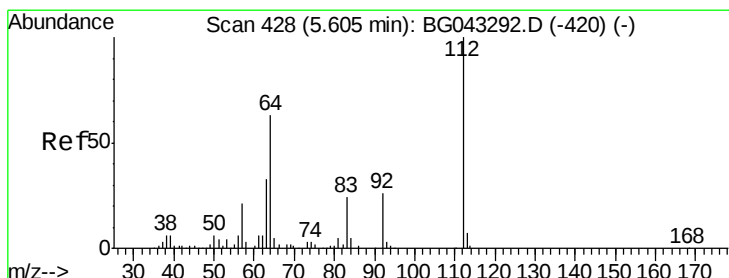
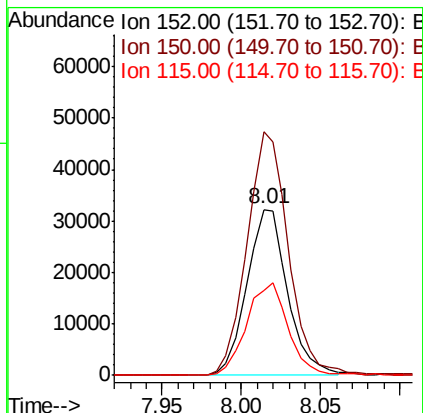
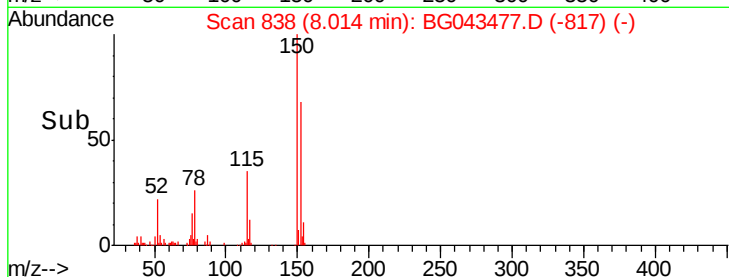
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 838  
Delta R.T. 0.02 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

Instrument :  
BNA\_G  
ClientSampleId :  
OK-01-103019

Tot Ion:152 Resp: 57205  
Ion Ratio Lower Upper  
152 100  
150 147.0 116.6 175.0  
115 51.7 40.5 60.7



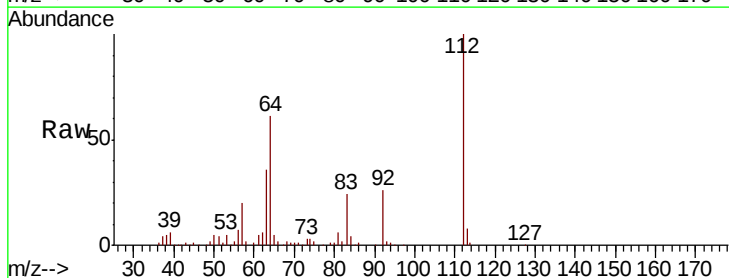
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



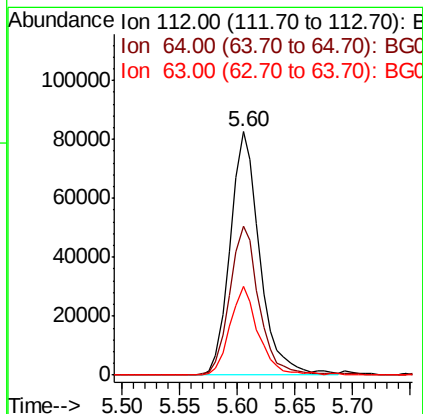
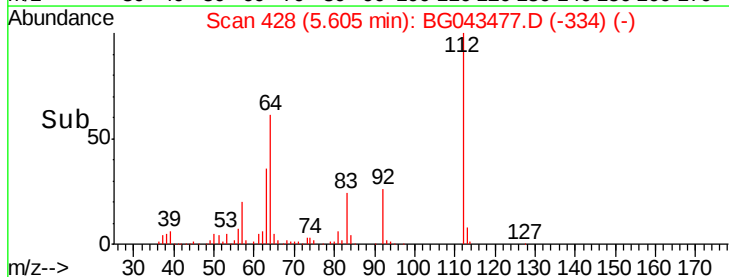
#5

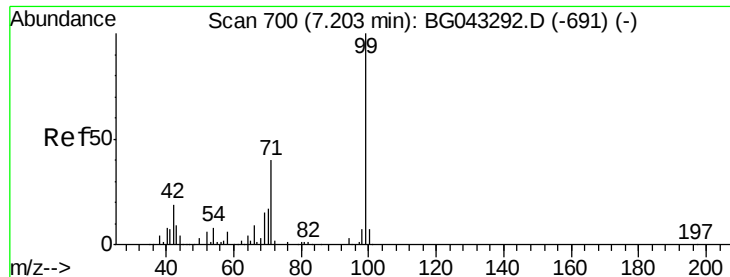
2-Fluorophenol  
Concen: 47.001 ng  
RT: 5.60 min Scan# 428  
Delta R.T. 0.02 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

Tgt Ion:112 Resp: 146727  
Ion Ratio Lower Upper  
112 100  
64 60.9 50.6 75.8  
63 36.4 30.5 45.7



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG  
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 45.366 ng

RT: 7.20 min Scan# 699

Delta R.T. 0.01 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

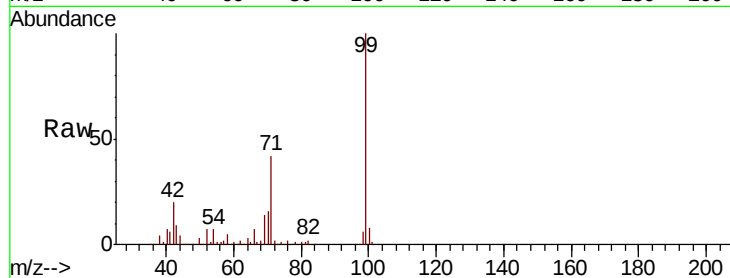
Tot Ion: 99 Resp: 203763

Ion Ratio Lower Upper

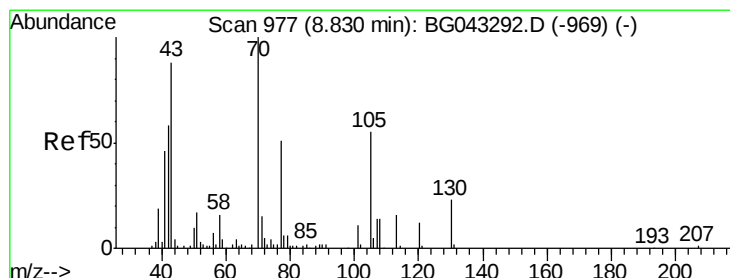
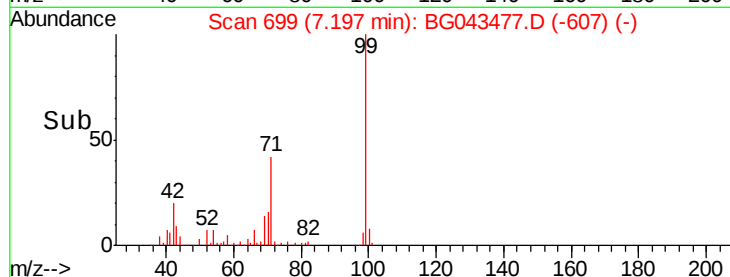
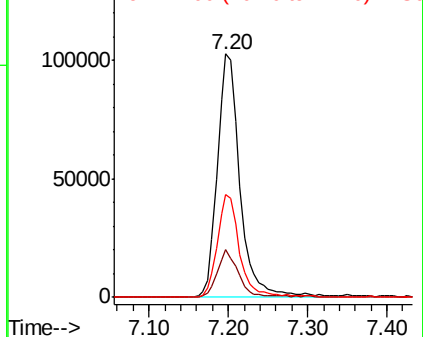
99 100

42 19.8 15.8 23.8

71 42.2 34.4 51.6



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 5.500 ng

RT: 9.17 min Scan# 1035

Delta R.T. 0.38 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Tgt Ion: 70 Resp: 15964

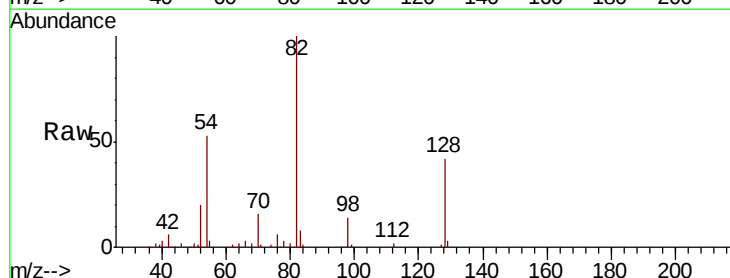
Ion Ratio Lower Upper

70 100

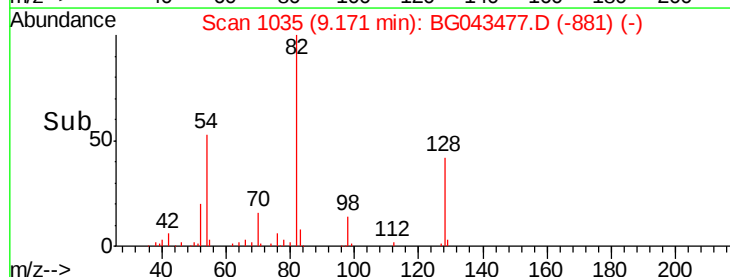
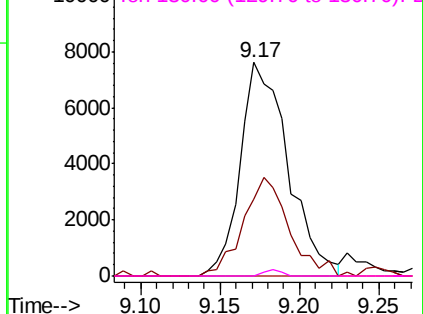
42 35.7 49.7 74.5#

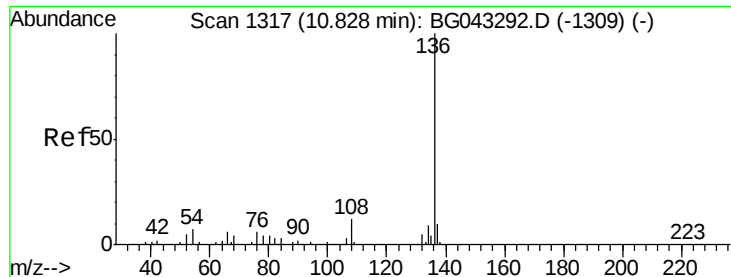
101 0.0 9.7 14.5#

130 0.0 17.7 26.5#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

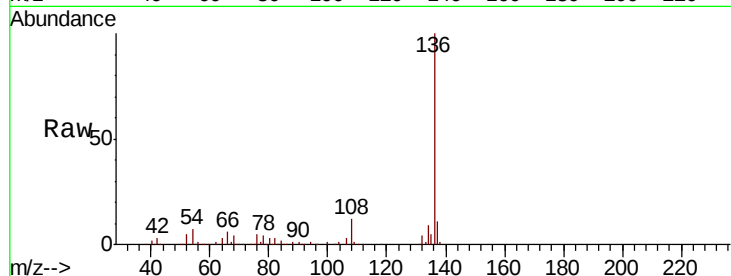




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.82 min Scan# 1316  
Delta R.T. 0.03 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

Instrument :  
BNA\_G  
ClientSampleId :  
OK-01-103019

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 212888      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.1  | 8.8 13.2    |
| 54          | 7.1   | 6.2 9.2     |
| 68          | 4.0   | 3.4 5.0     |



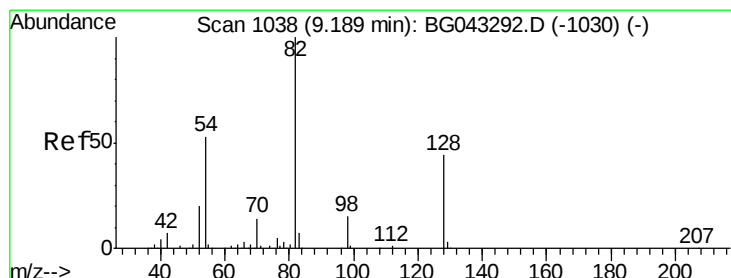
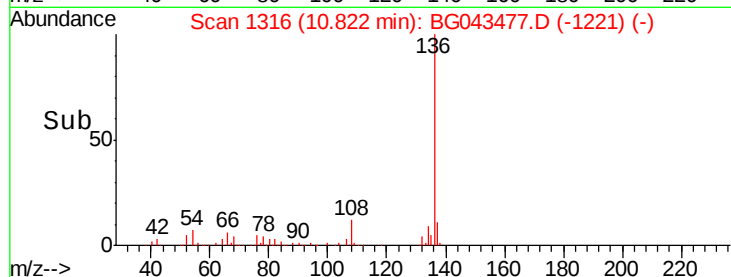
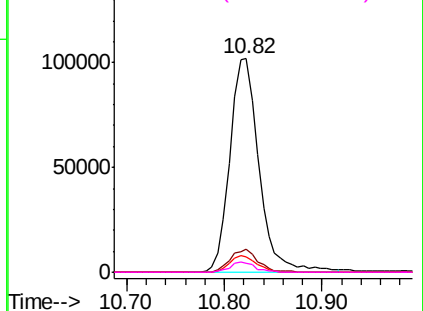
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

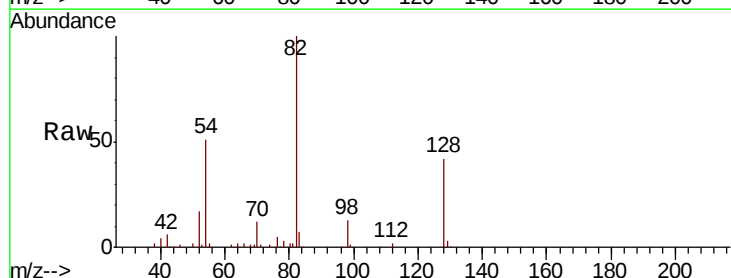
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23  
Nitrobenzene-d5  
Concen: 29.395 ng  
RT: 9.18 min Scan# 1036  
Delta R.T. 0.02 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 121385      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 41.7  | 34.2 51.4   |
| 54          | 51.0  | 44.7 67.1   |

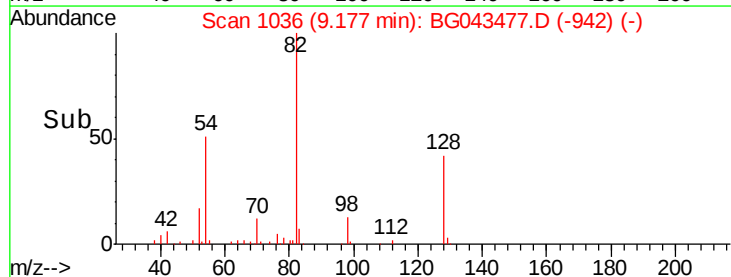
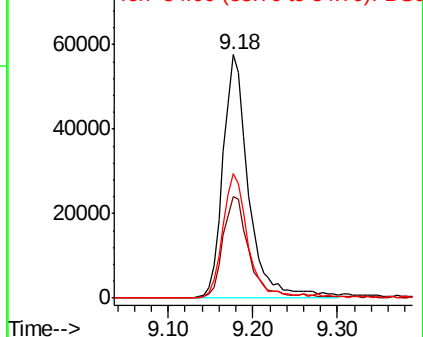


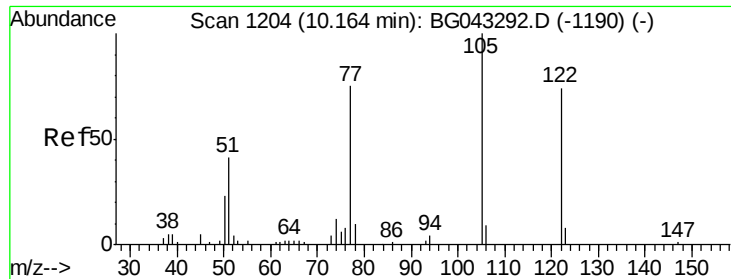
Abundance

Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#32

Benzoic acid

Concen: 9.072 ng

RT: 10.36 min Scan# 1238

Delta R.T. 0.20 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

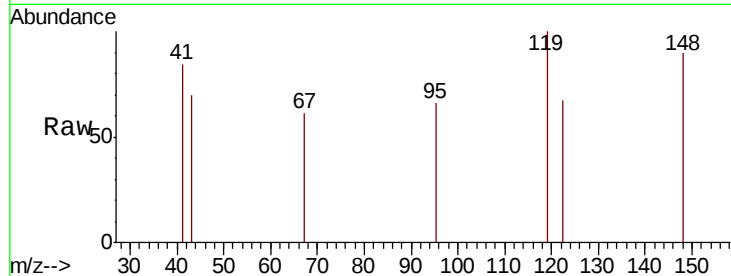
Tot Ion:122 Resp: 59

Ion Ratio Lower Upper

122 100

105 0.0 101.8 141.8#

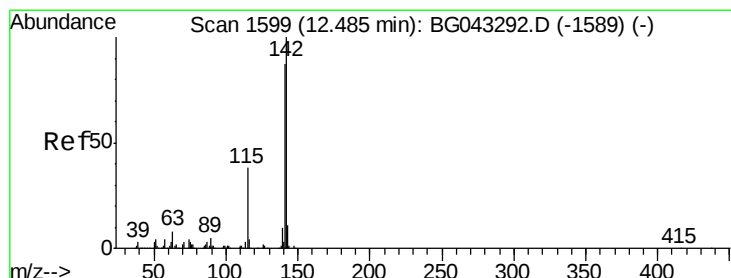
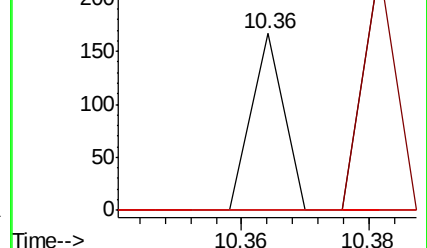
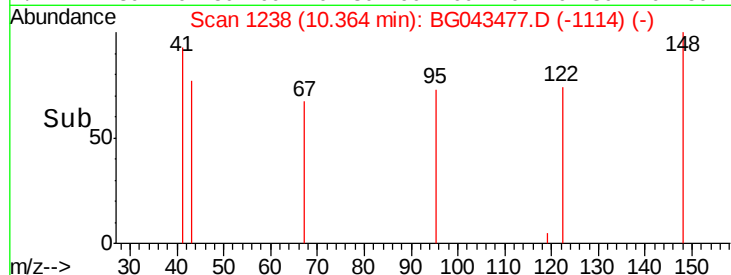
77 0.0 86.8 126.8#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#37

2-Methylnaphthalene

Concen: 3.218 ng

RT: 12.48 min Scan# 1598

Delta R.T. 0.03 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

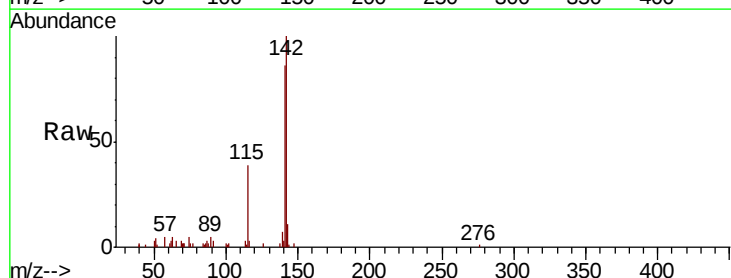
Tgt Ion:142 Resp: 26685

Ion Ratio Lower Upper

142 100

141 85.9 71.2 106.8

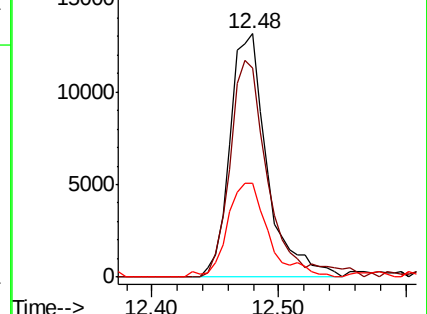
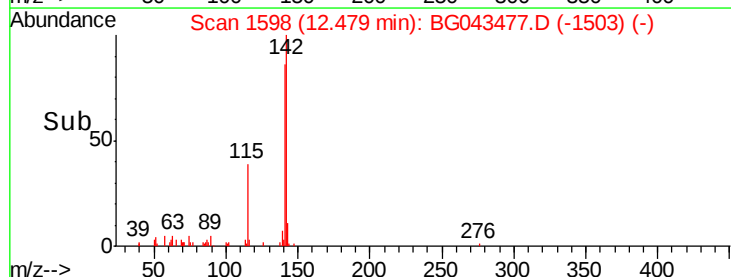
115 38.6 31.9 47.9

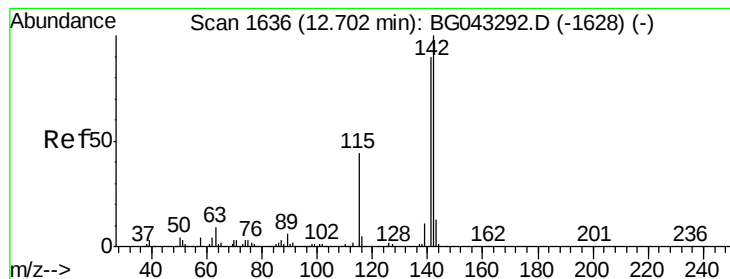


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

1-Methylnaphthalene

Concen: 3.341 ng

RT: 12.69 min Scan# 1634

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

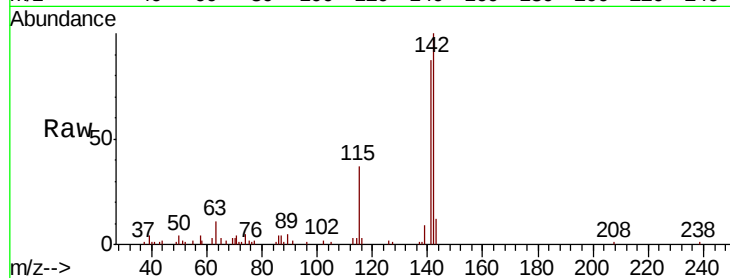
Tot Ion:142 Resp: 26356

Ion Ratio Lower Upper

142 100

141 87.2 74.5 111.7

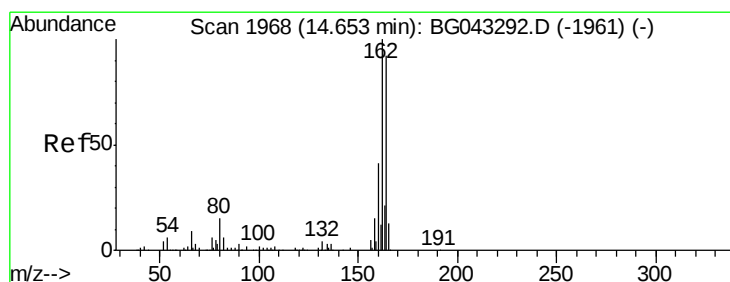
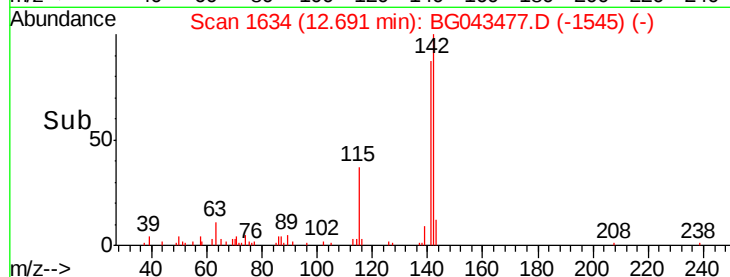
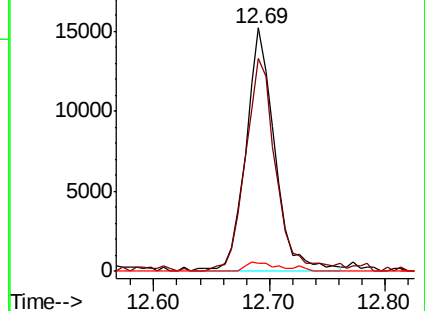
116 3.3 3.8 5.6#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.64 min Scan# 1966

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

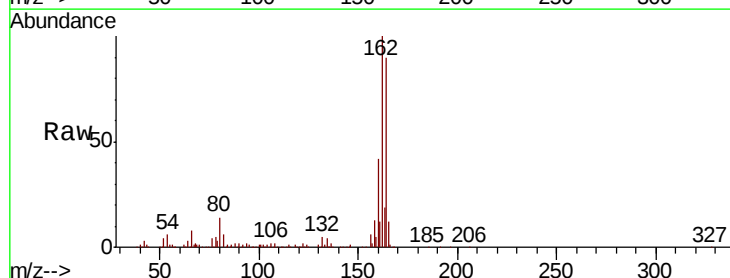
Tgt Ion:164 Resp: 141959

Ion Ratio Lower Upper

164 100

162 110.8 79.4 119.2

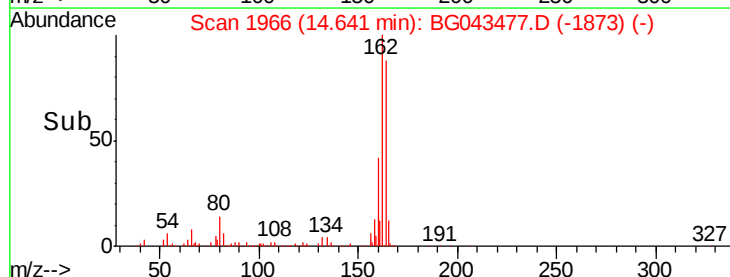
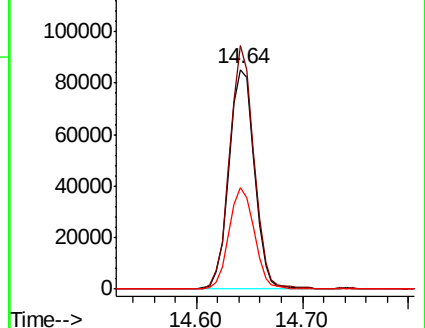
160 46.0 36.3 54.5

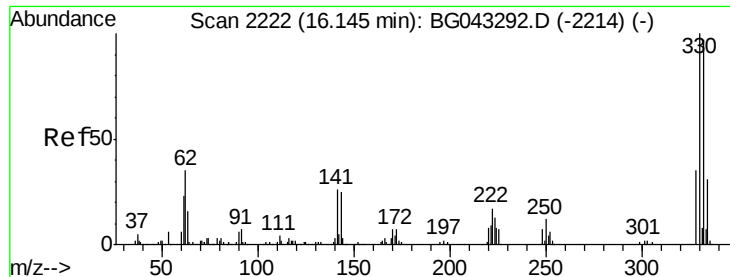


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

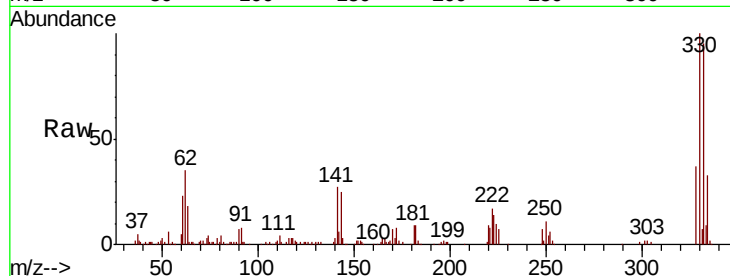




#42  
 2,4,6-Tribromophenol  
 Concen: 39.614 ng  
 RT: 16.13 min Scan# 2220  
 Delta R.T. 0.02 min  
 Lab File: BG043477.D  
 Acq: 1 Nov 2019 22:28

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OK-01-103019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 76.6  | 115.0 |
| 141     | 29.6  | 23.4  | 35.2  |

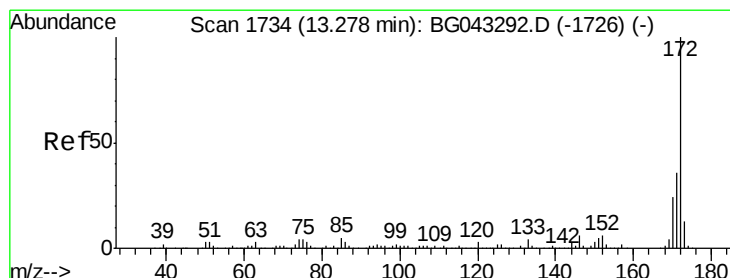
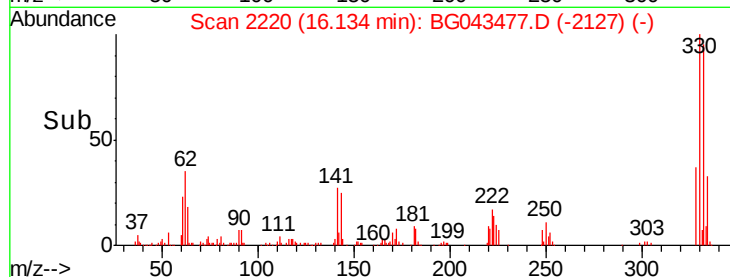
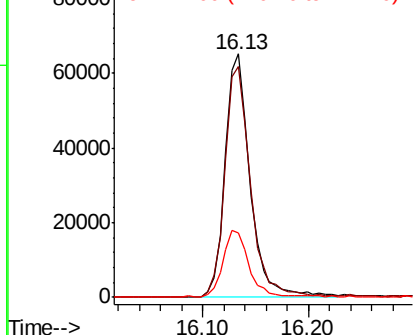


Abundance

Ion 329.80 (329.50 to 330.50): E

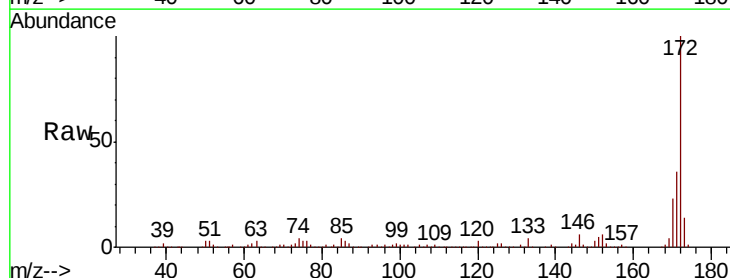
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 30.196 ng  
 RT: 13.27 min Scan# 1732  
 Delta R.T. 0.02 min  
 Lab File: BG043477.D  
 Acq: 1 Nov 2019 22:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 28.1  | 42.1  |
| 170     | 23.0  | 18.8  | 28.2  |

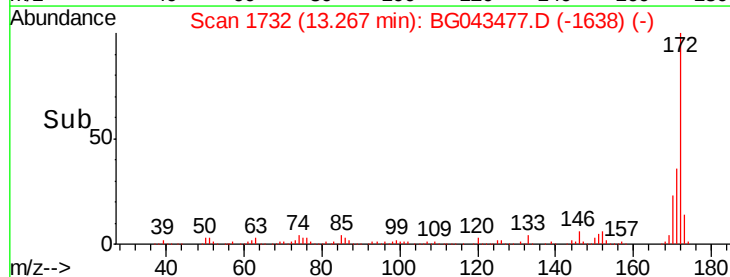
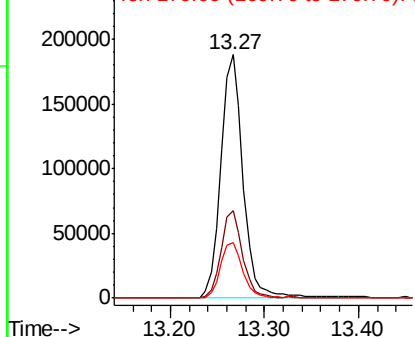


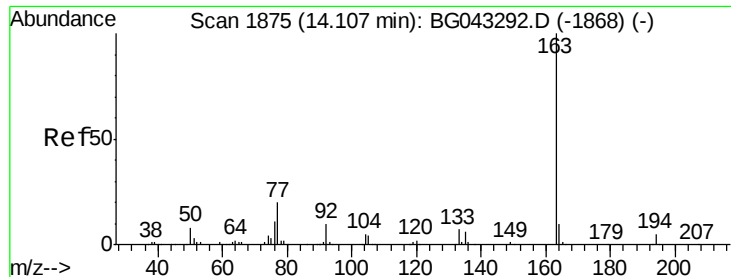
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

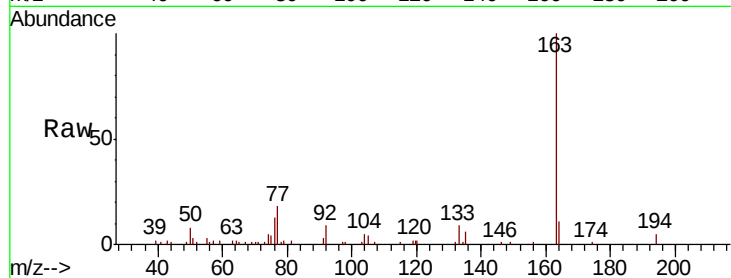




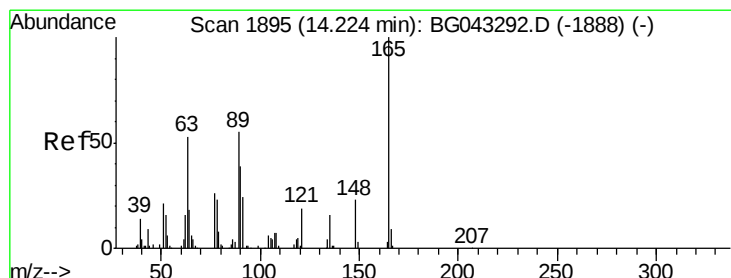
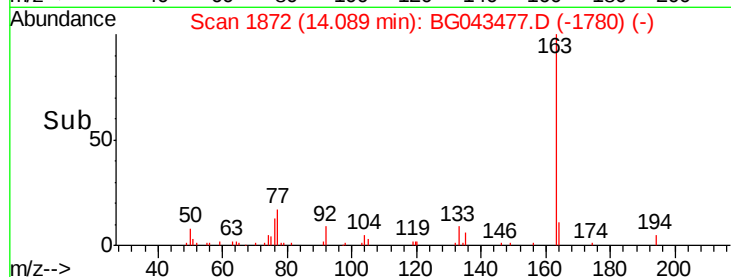
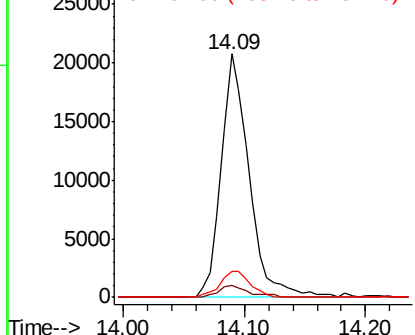
#50  
Dimethylphthalate  
Concen: 3.017 ng  
RT: 14.09 min Scan# 1872  
Delta R.T. 0.01 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

Instrument :  
BNA\_G  
ClientSampleId :  
OK-01-103019

Tot Ion:163 Resp: 33169  
Ion Ratio Lower Upper  
163 100  
194 5.0 3.8 5.8  
164 10.7 8.5 12.7

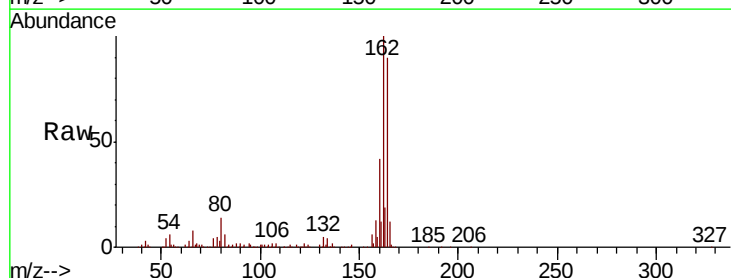


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

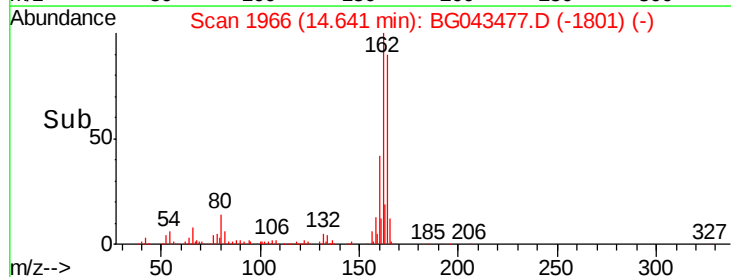
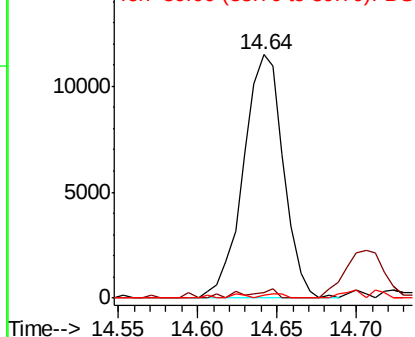


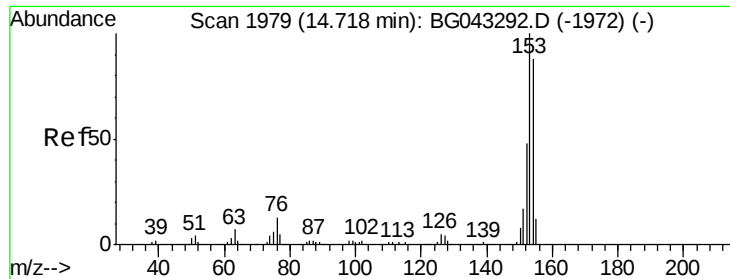
#51  
2,6-Dinitrotoluene  
Concen: 8.437 ng  
RT: 14.64 min Scan# 1966  
Delta R.T. 0.44 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

Tgt Ion:165 Resp: 20154  
Ion Ratio Lower Upper  
165 100  
63 2.1 45.0 67.6#  
89 1.3 39.8 59.8#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC





#52

Acenaphthene

Concen: 7.008 ng

RT: 14.71 min Scan# 1977

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

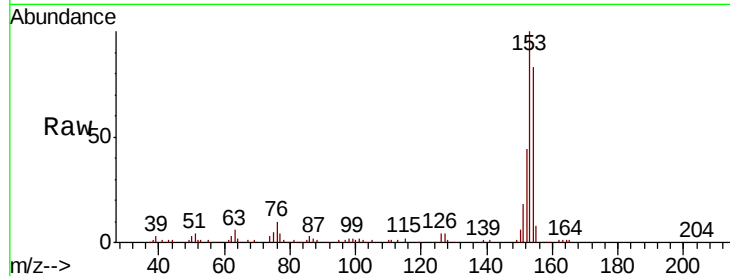
Tot Ion:154 Resp: 54654

Ion Ratio Lower Upper

154 100

153 119.9 89.2 133.8

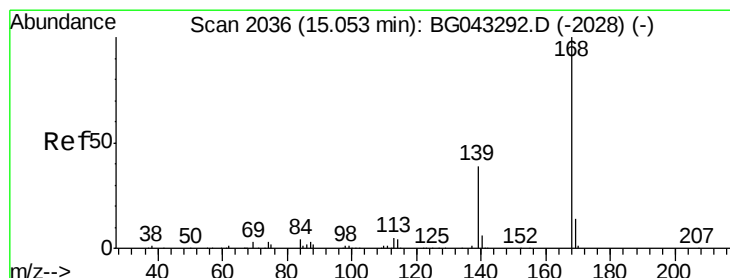
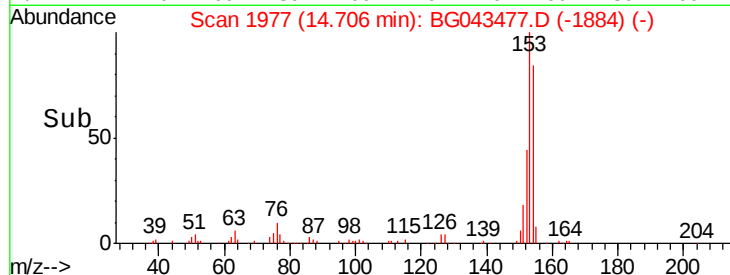
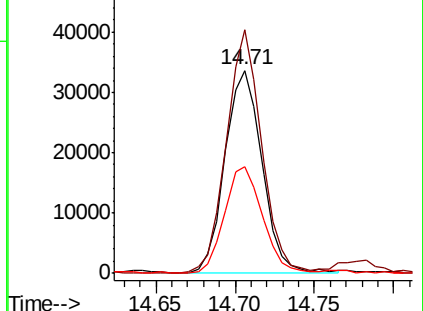
152 52.4 41.4 62.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 4.350 ng

RT: 15.04 min Scan# 2034

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

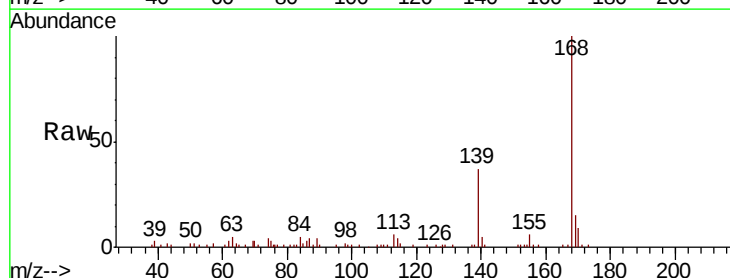
Tgt Ion:168 Resp: 55011

Ion Ratio Lower Upper

168 100

139 36.8 32.7 49.1

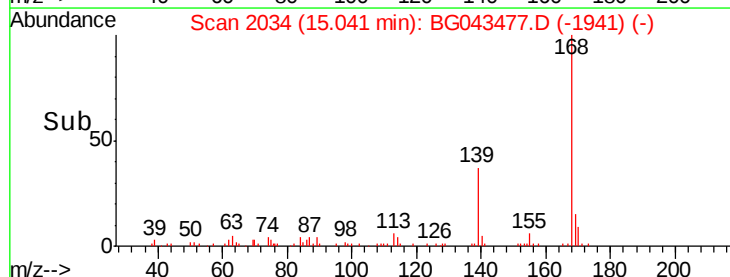
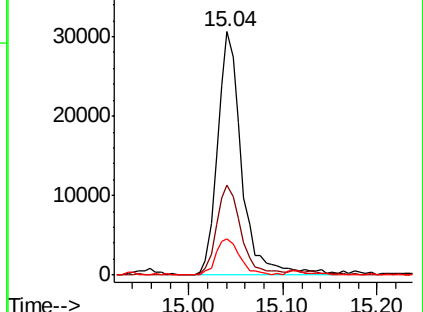
169 14.7 10.6 15.8

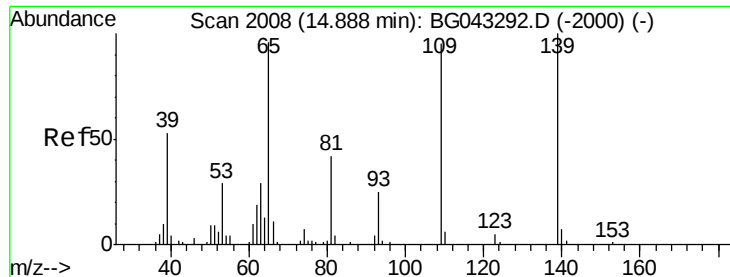


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

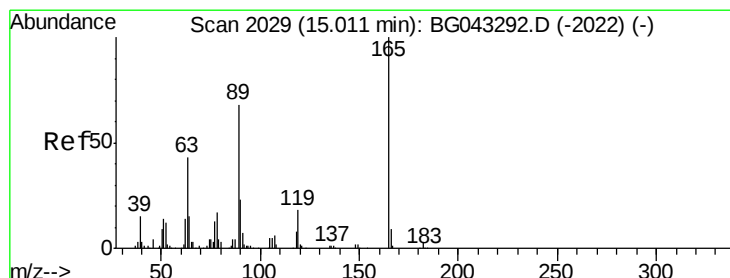
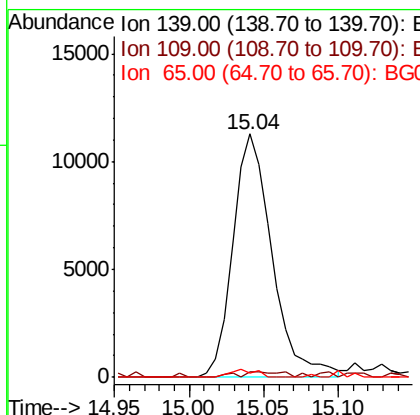
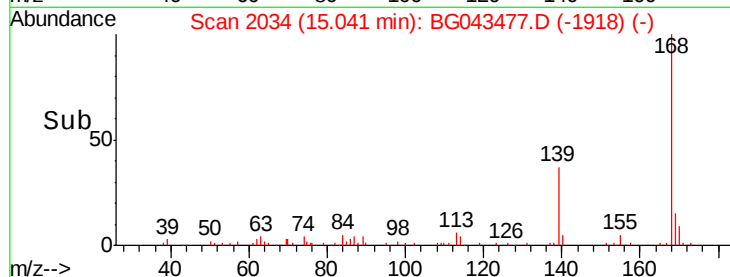
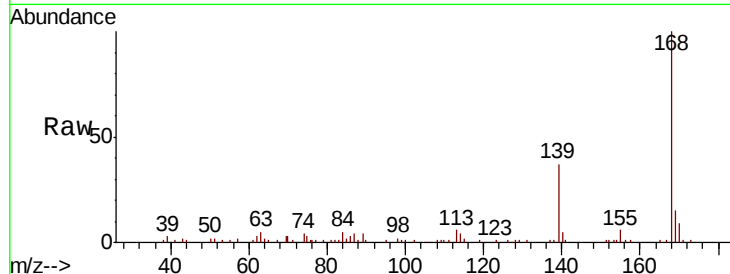




#56  
4-Nitrophenol  
Concen: 13.281 ng  
RT: 15.04 min Scan# 2034  
Delta R.T. 0.15 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

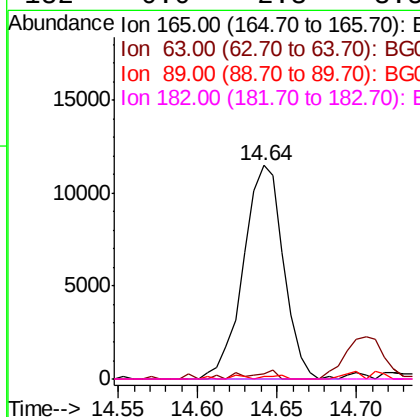
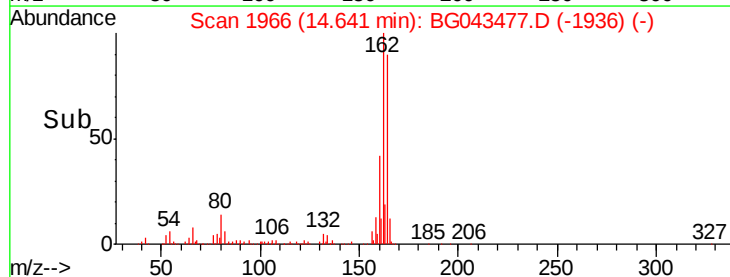
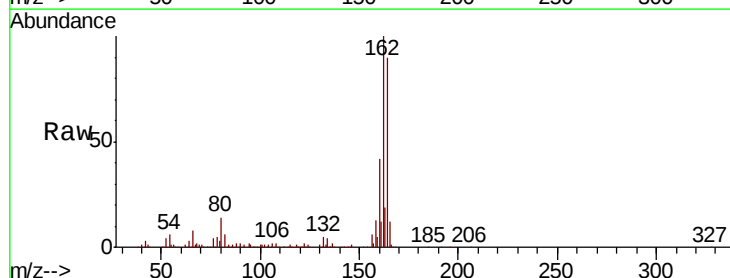
Instrument :  
BNA\_G  
ClientSampleId :  
OK-01-103019

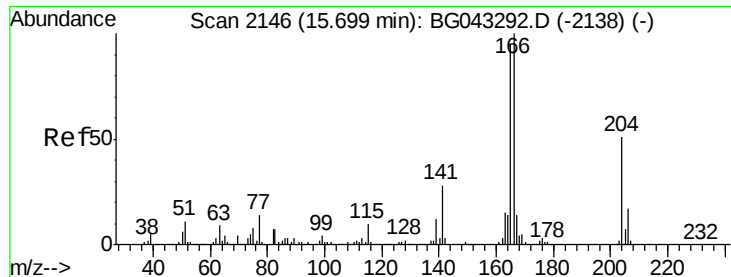
Tot Ion:139 Resp: 20526  
Ion Ratio Lower Upper  
139 100  
109 2.1 64.0 104.0#  
65 1.5 75.6 115.6#



#57  
2,4-Dinitrotoluene  
Concen: 5.904 ng  
RT: 14.64 min Scan# 1966  
Delta R.T. -0.35 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

Tgt Ion:165 Resp: 20154  
Ion Ratio Lower Upper  
165 100  
63 2.1 37.4 56.0#  
89 1.3 50.9 76.3#  
182 0.0 2.3 3.5#





#58

Fluorene

Concen: 6.475 ng

RT: 15.69 min Scan# 2144

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

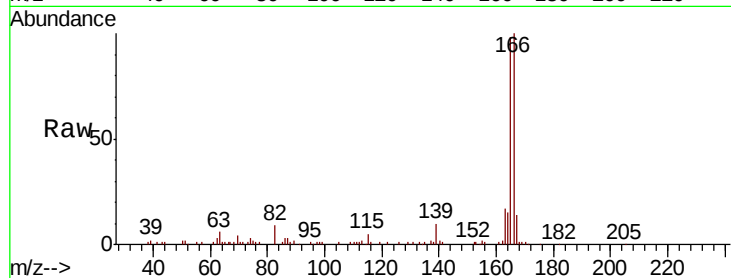
Tot Ion:166 Resp: 68678

Ion Ratio Lower Upper

166 100

165 97.5 78.4 117.6

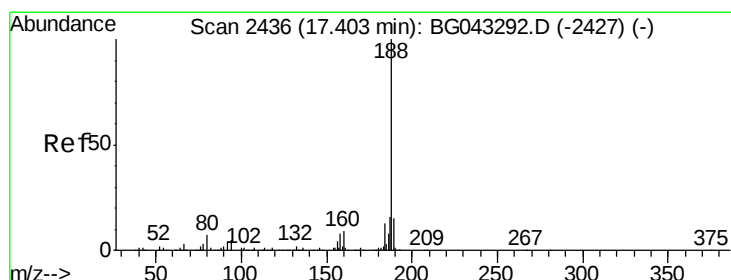
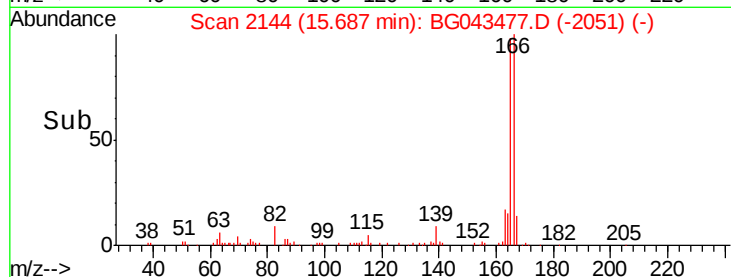
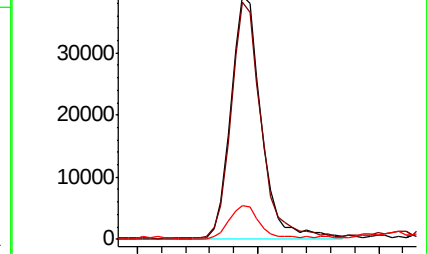
167 14.1 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.39 min Scan# 2433

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

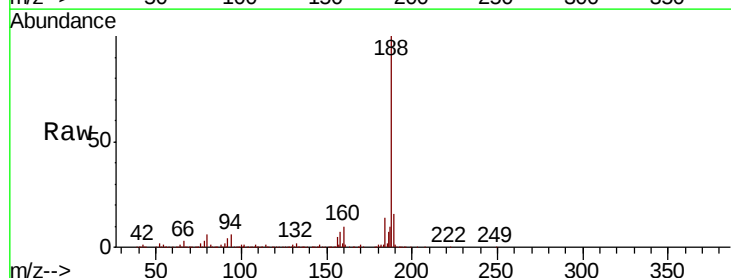
Tgt Ion:188 Resp: 314479

Ion Ratio Lower Upper

188 100

94 6.3 4.6 7.0

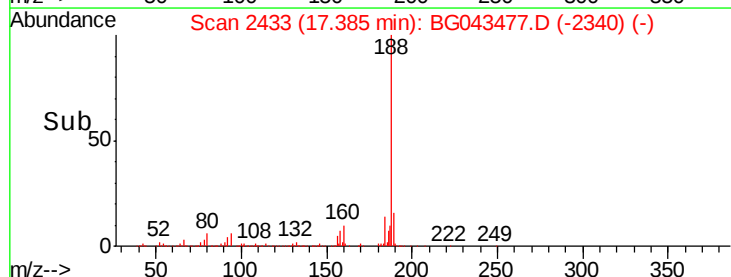
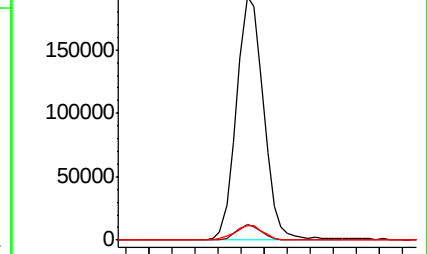
80 5.7 5.2 7.8

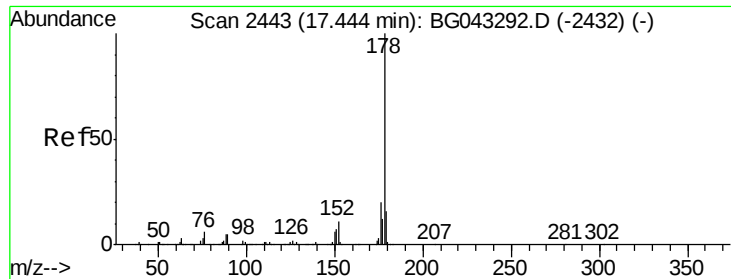


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG

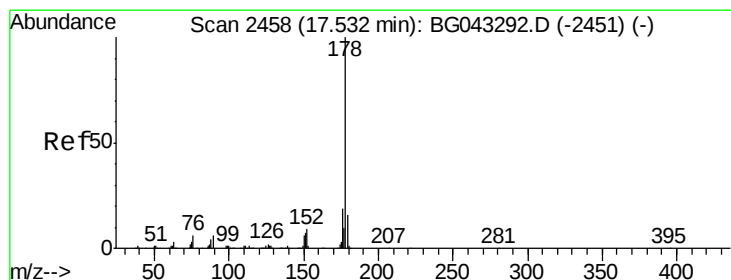
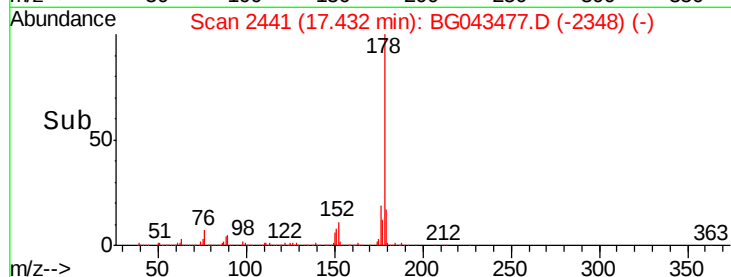
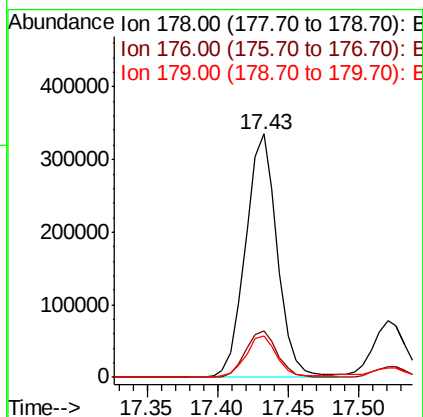
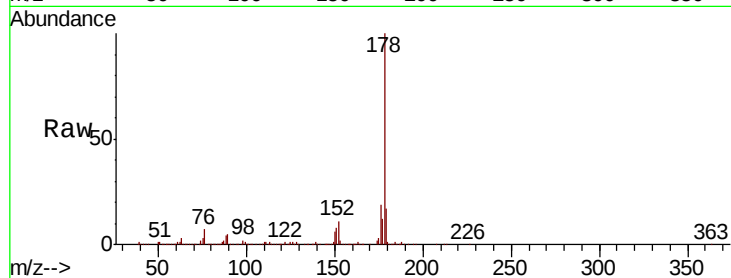




#71  
Phenanthrene  
Concen: 32.850 ng  
RT: 17.43 min Scan# 2441  
Delta R.T. 0.02 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

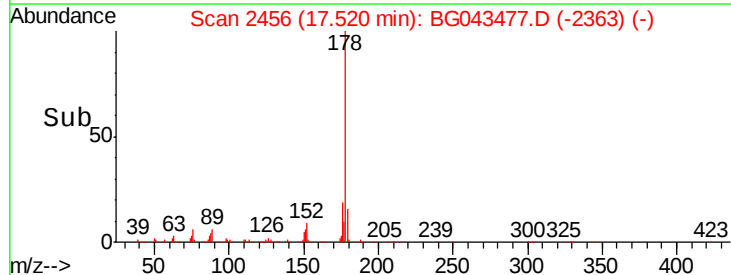
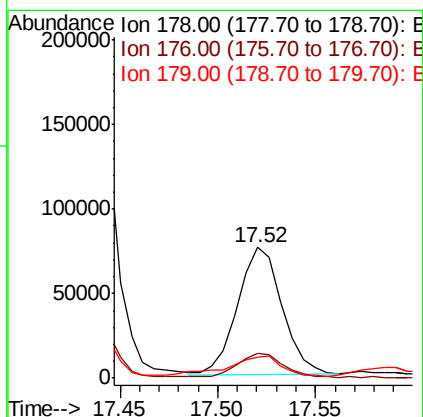
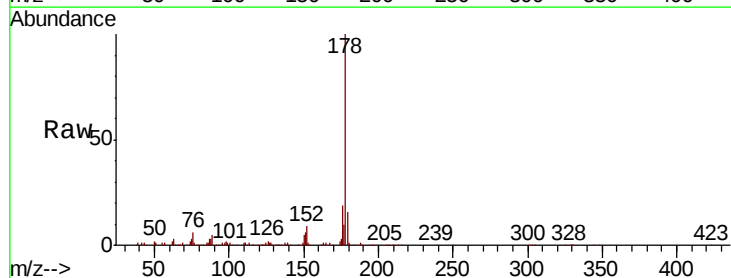
Instrument :  
BNA\_G  
ClientSampleId :  
OK-01-103019

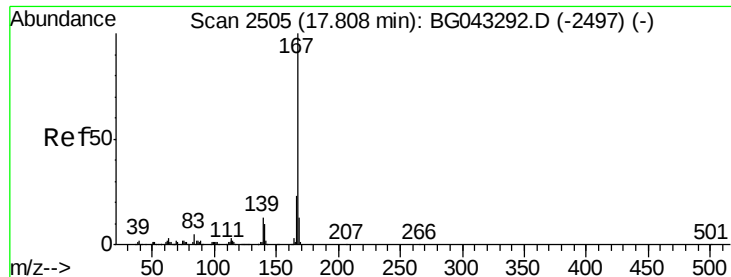
Tot Ion:178 Resp: 529012  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.0 22.4  
179 16.9 13.0 19.4



#72  
Anthracene  
Concen: 7.400 ng  
RT: 17.52 min Scan# 2456  
Delta R.T. 0.02 min  
Lab File: BG043477.D  
Acq: 1 Nov 2019 22:28

Tgt Ion:178 Resp: 119226  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.0 22.6  
179 16.0 13.3 19.9





#73

Carbazole

Concen: 4.831 ng

RT: 17.79 min Scan# 2502

Delta R.T. 0.01 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

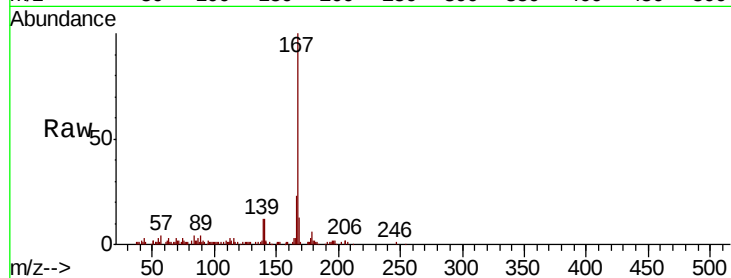
Tot Ion:167 Resp: 70492

Ion Ratio Lower Upper

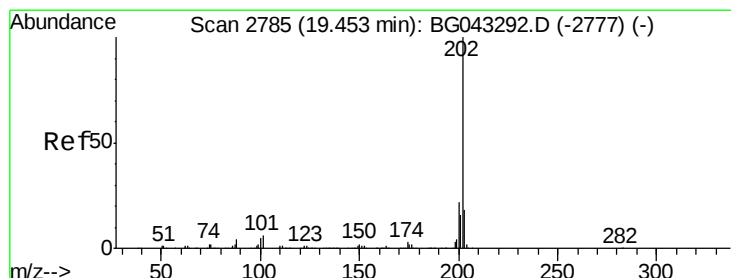
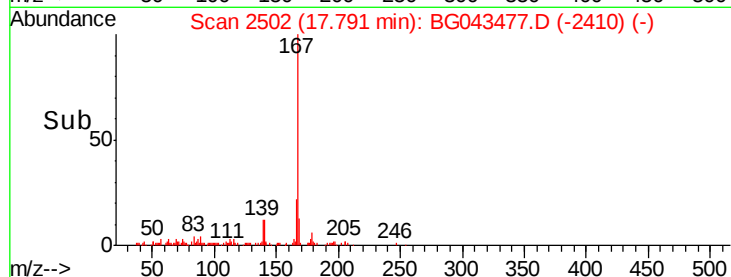
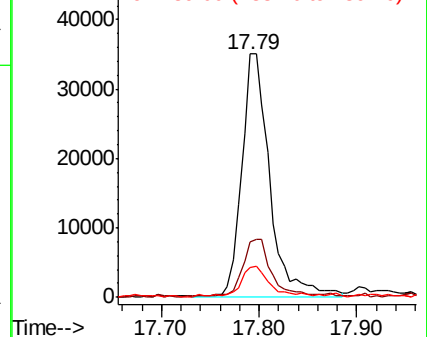
167 100

166 22.5 17.6 26.4

139 12.3 10.3 15.5



Abundance Ion 167.00 (166.70 to 167.70): E  
Ion 166.00 (165.70 to 166.70): E  
Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 36.351 ng

RT: 19.44 min Scan# 2783

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

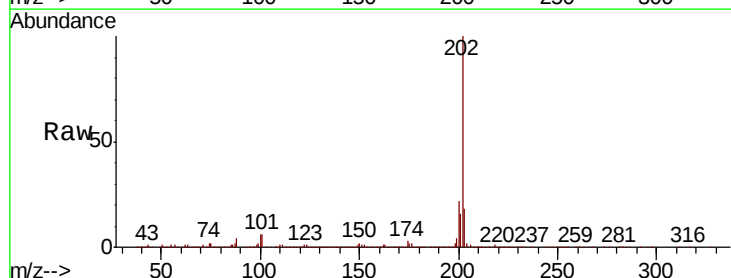
Tgt Ion:202 Resp: 763159

Ion Ratio Lower Upper

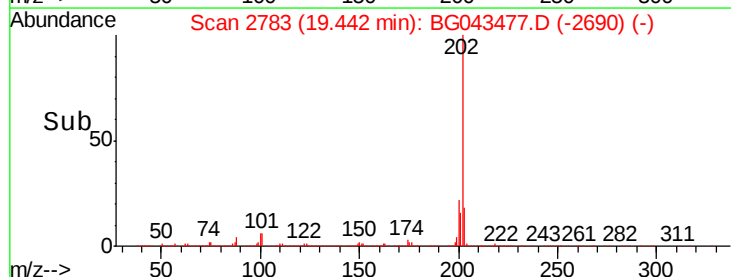
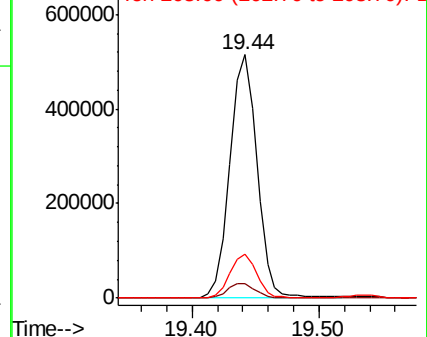
202 100

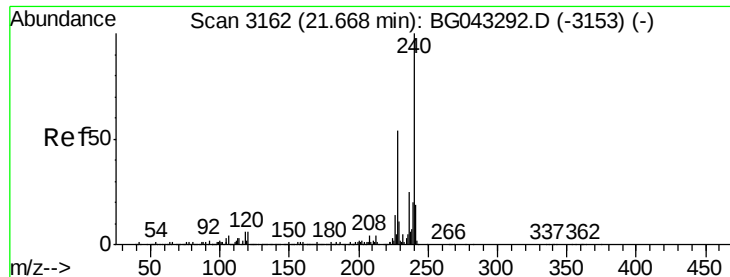
101 6.2 0.0 25.6

203 18.0 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.66 min Scan# 3160

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

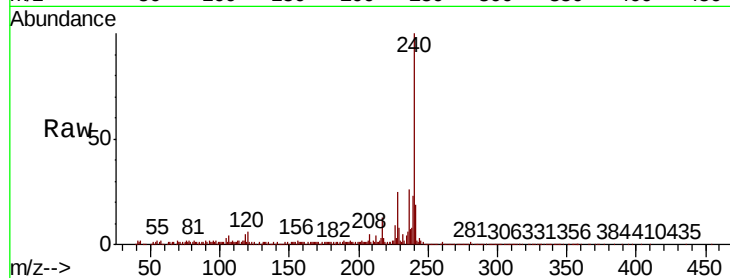
Tot Ion:240 Resp: 329134

Ion Ratio Lower Upper

240 100

120 6.0 4.9 7.3

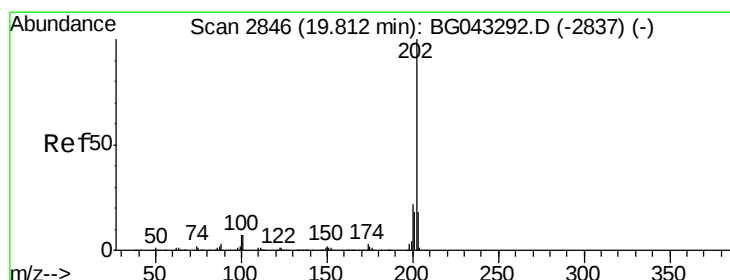
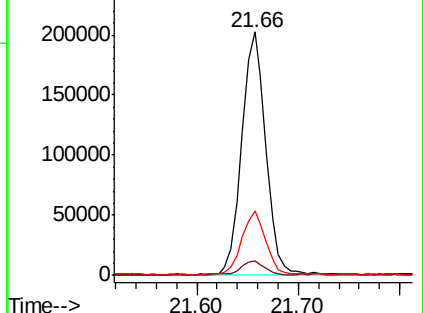
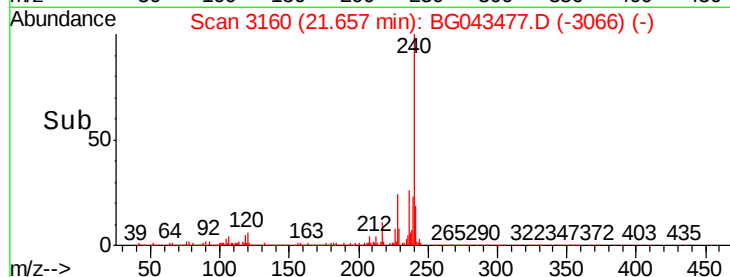
236 26.3 21.4 32.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 31.813 ng

RT: 19.80 min Scan# 2844

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

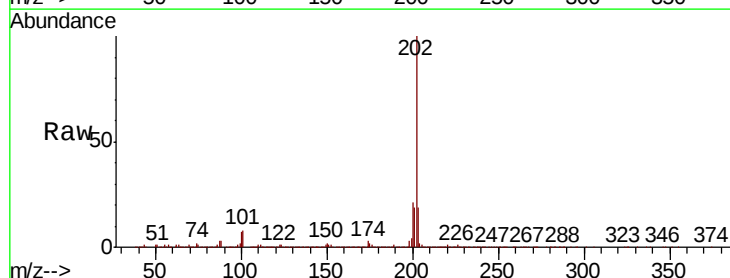
Tgt Ion:202 Resp: 648133

Ion Ratio Lower Upper

202 100

200 21.3 16.9 25.3

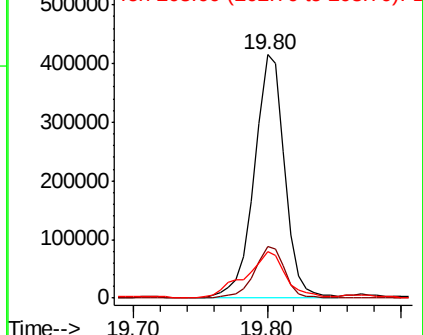
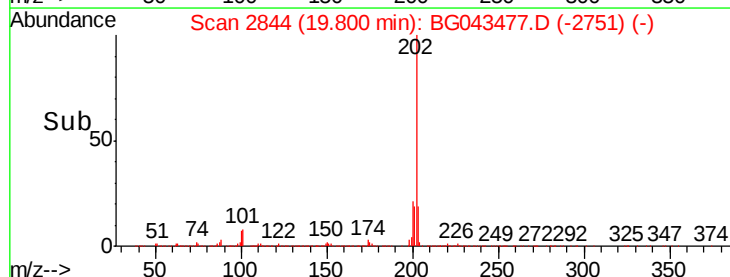
203 19.0 14.8 22.2

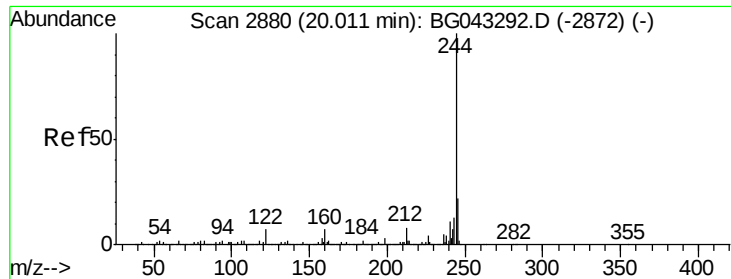


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 28.803 ng

RT: 19.99 min Scan# 2877

Delta R.T. 0.01 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

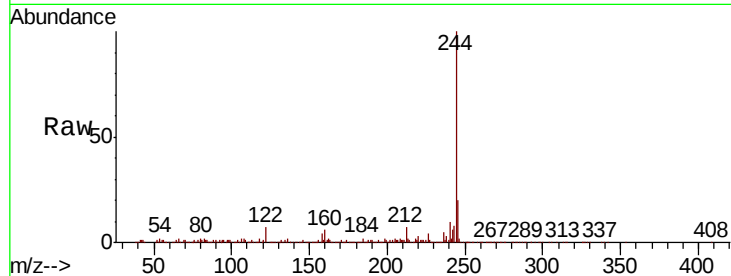
Tot Ion:244 Resp: 505325

Ion Ratio Lower Upper

244 100

212 7.3 5.6 8.4

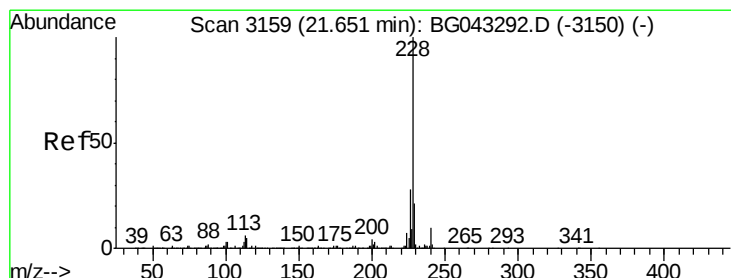
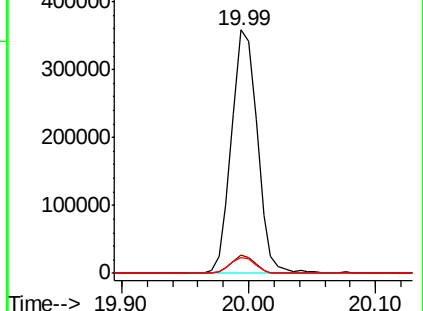
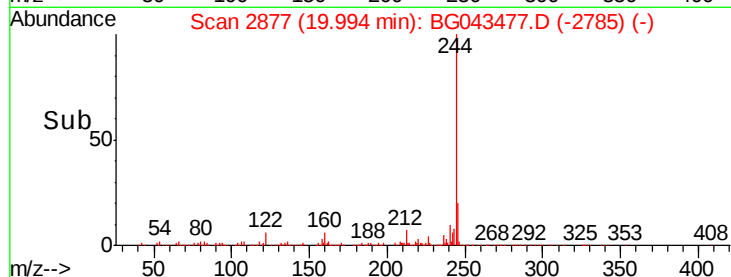
122 6.7 5.2 7.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 17.251 ng

RT: 21.63 min Scan# 3156

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

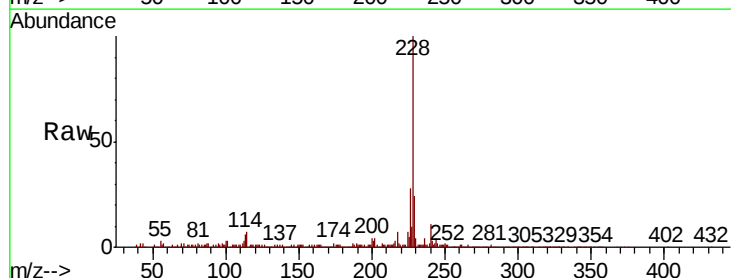
Tgt Ion:228 Resp: 355662

Ion Ratio Lower Upper

228 100

226 27.9 21.8 32.6

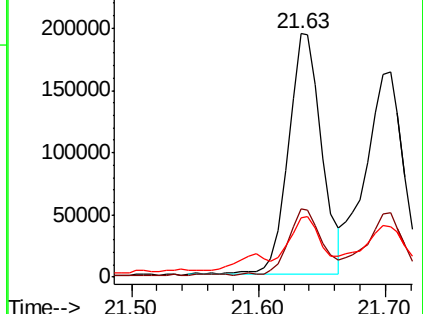
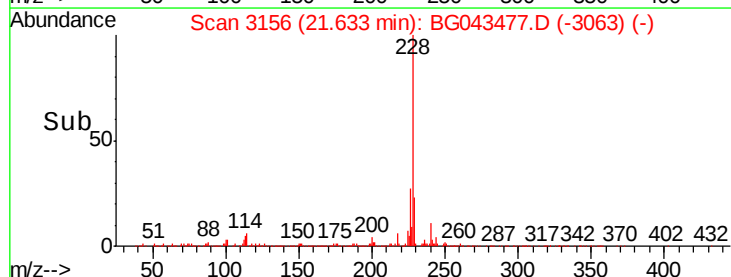
229 24.1 15.9 23.9#

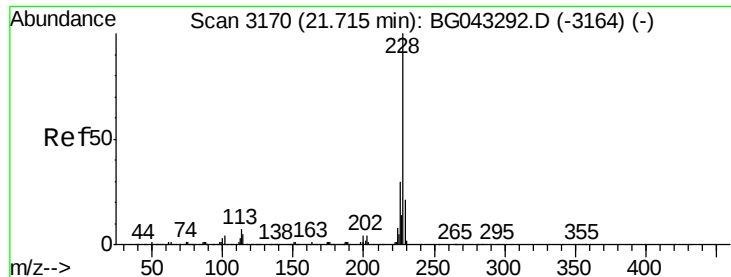


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 15.956 ng

RT: 21.70 min Scan# 3168

Delta R.T. 0.02 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

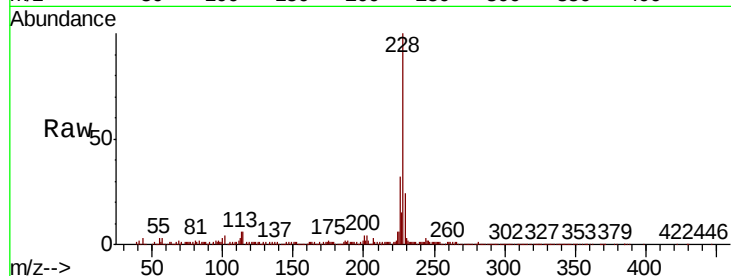
Tot Ion:228 Resp: 326842

Ion Ratio Lower Upper

228 100

226 31.6 23.3 34.9

229 24.3 16.5 24.7

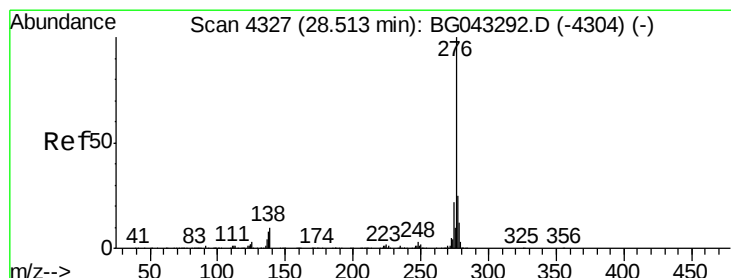
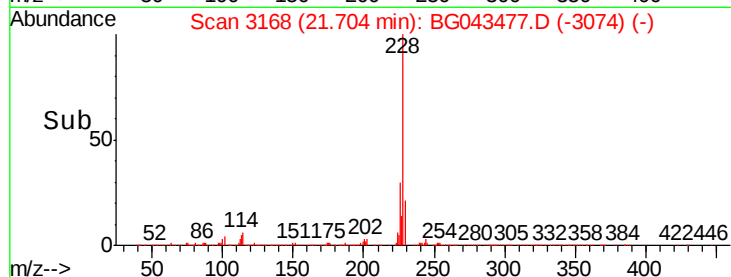
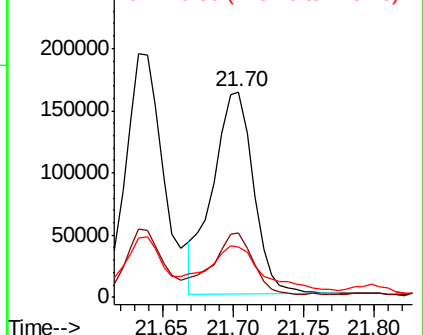


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.978 ng

RT: 28.49 min Scan# 4323

Delta R.T. 0.05 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

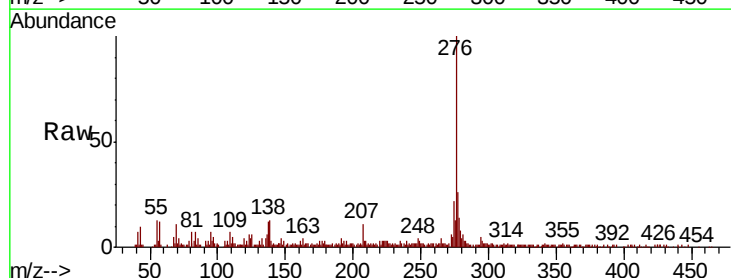
Tgt Ion:276 Resp: 205148

Ion Ratio Lower Upper

276 100

138 5.0 11.3 16.9#

277 24.4 20.6 31.0

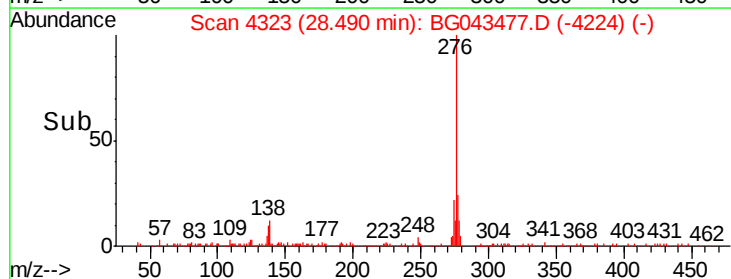
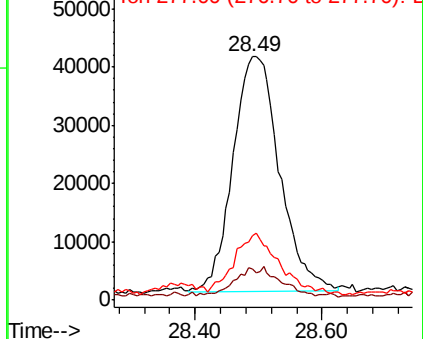


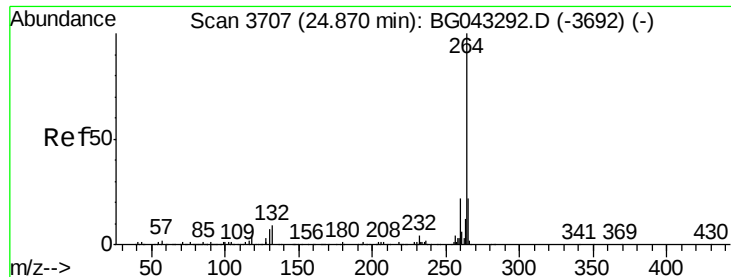
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 24.85 min Scan# 3704

Delta R.T. 0.04 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

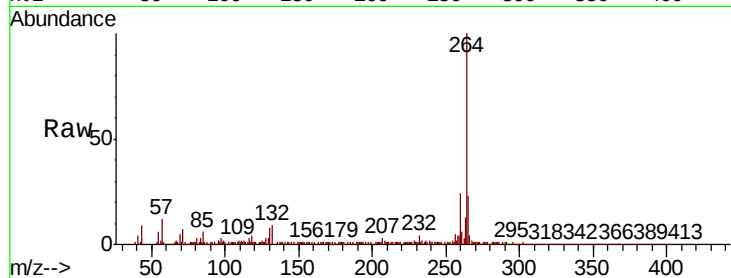
BNA\_G

ClientSampleId :

OK-01-103019

Tot Ion:264 Resp: 405905

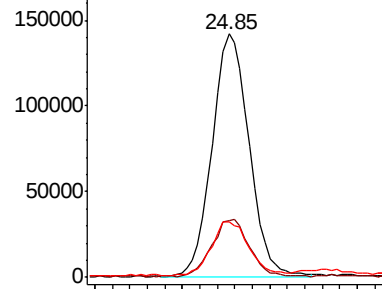
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.5  | 18.4  | 27.6  |
| 265 | 23.0  | 15.8  | 23.8  |



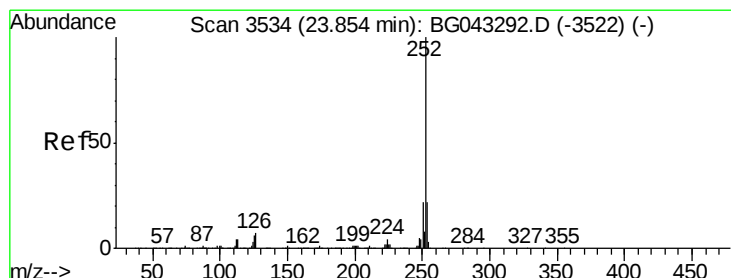
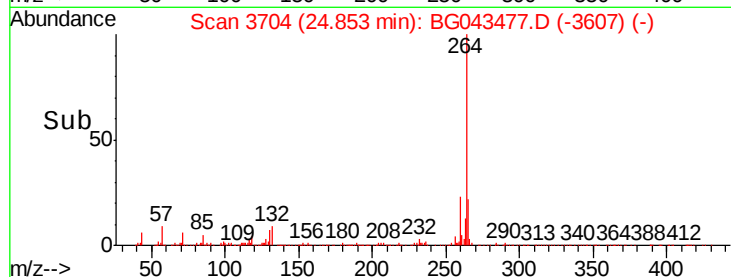
Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time--> 24.70 24.80 24.90 25.00



#88

Benzo(b)fluoranthene

Concen: 19.113 ng

RT: 23.84 min Scan# 3532

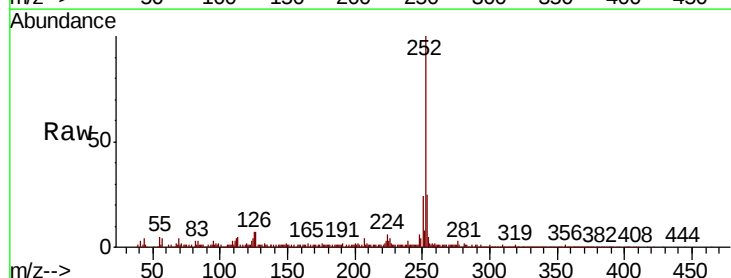
Delta R.T. 0.04 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Tgt Ion:252 Resp: 439382

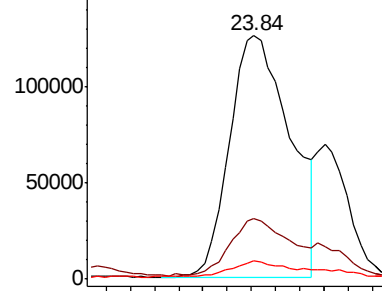
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.9  | 17.7  | 26.5  |
| 125 | 7.3   | 4.5   | 6.7#  |



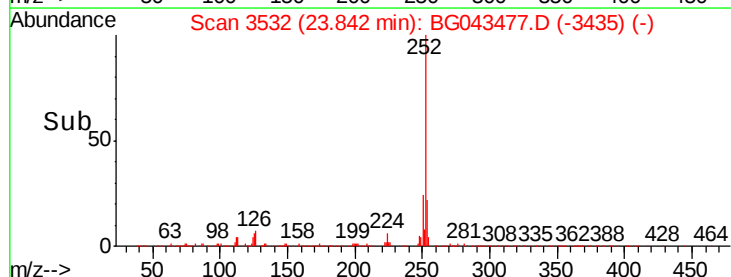
Abundance Ion 252.00 (251.70 to 252.70): E

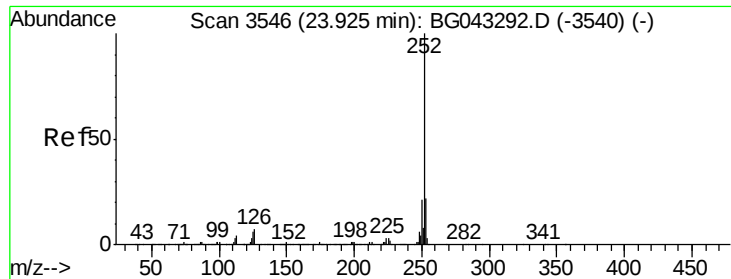
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time--> 23.80 23.90





#89

Benzo(k)fluoranthene

Concen: 18.985 ng

RT: 23.84 min Scan# 3532

Delta R.T. -0.03 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

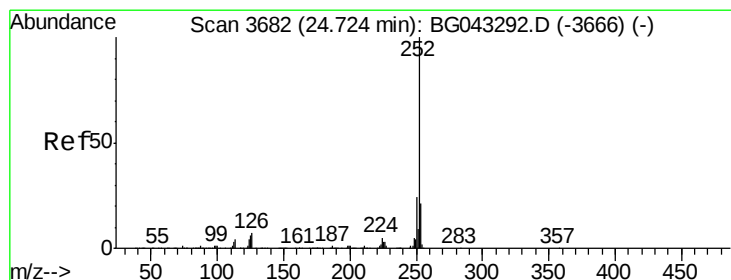
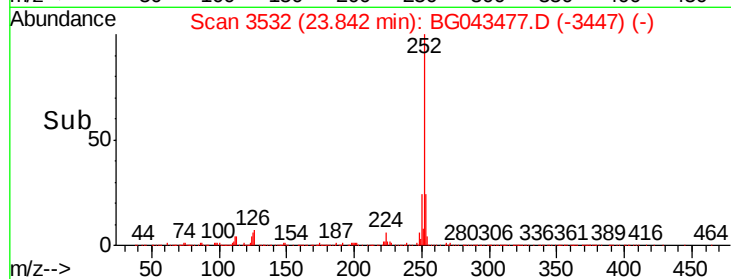
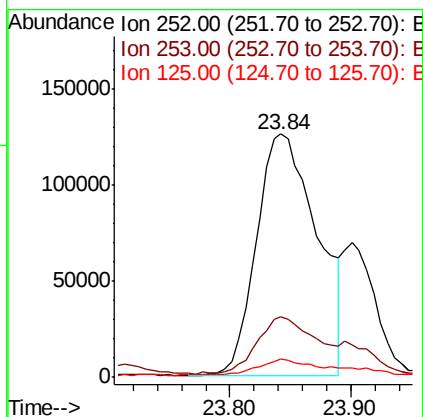
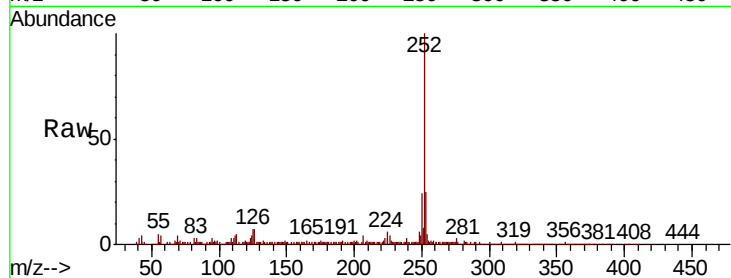
Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 252   | Resp: | 439382 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 24.9  | 18.0  | 27.0   |
| 125      | 7.3   | 4.7   | 7.1#   |



#90

Benzo(a)pyrene

Concen: 14.652 ng

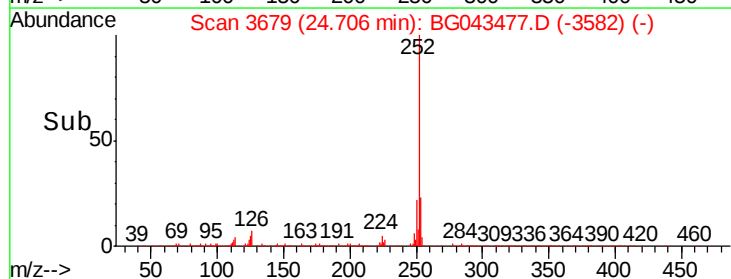
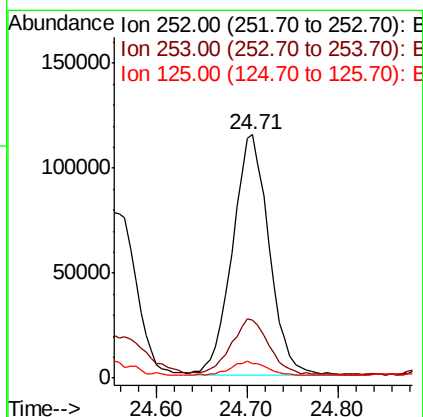
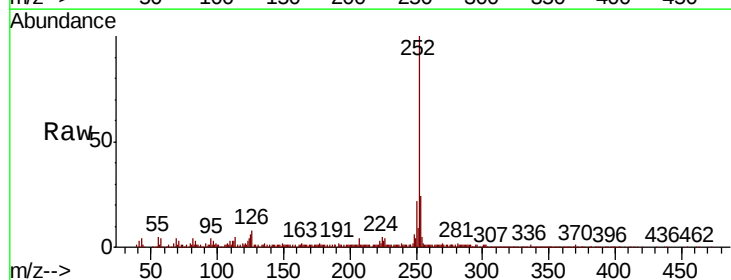
RT: 24.71 min Scan# 3679

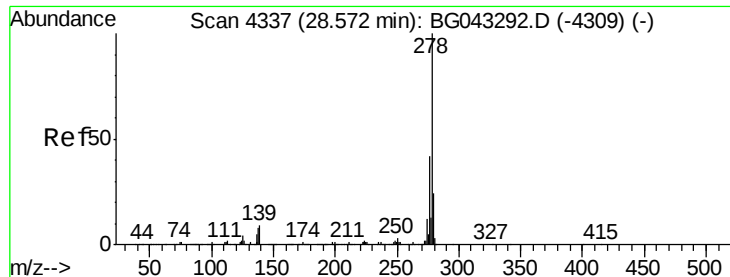
Delta R.T. 0.04 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 321659 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 24.0  | 17.9  | 26.9   |
| 125      | 6.1   | 5.0   | 7.6    |





#91

Dibenzo(a,h)anthracene

Concen: 2.310 ng

RT: 28.54 min Scan# 4331

Delta R.T. 0.05 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

Instrument :

BNA\_G

ClientSampleId :

OK-01-103019

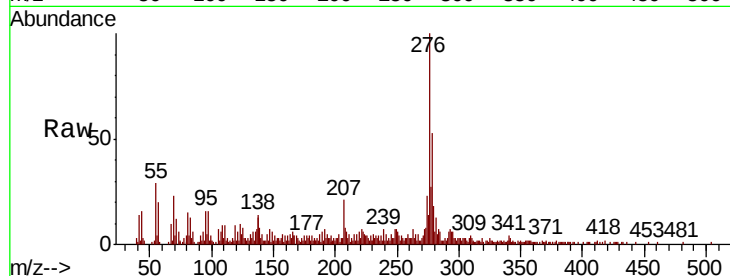
Tot Ion:278 Resp: 51864

Ion Ratio Lower Upper

278 100

139 14.4 7.2 10.8#

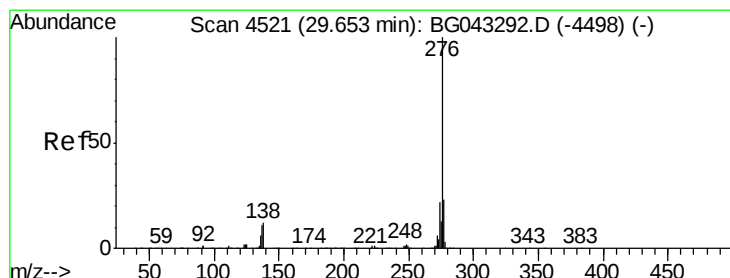
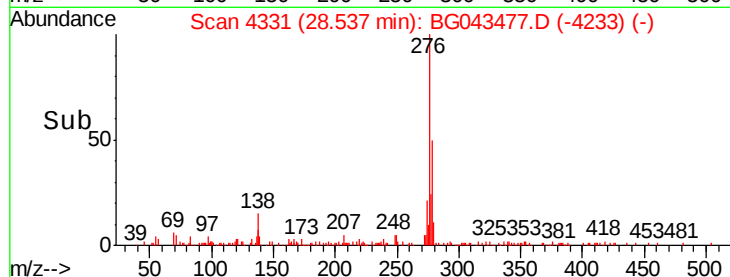
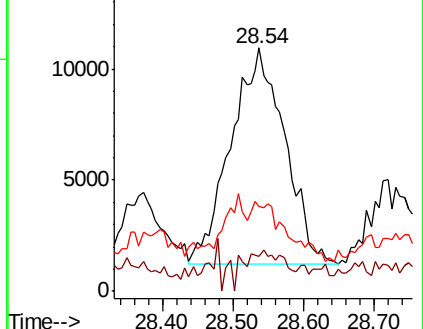
279 34.9 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 9.257 ng

RT: 29.64 min Scan# 4519

Delta R.T. 0.06 min

Lab File: BG043477.D

Acq: 1 Nov 2019 22:28

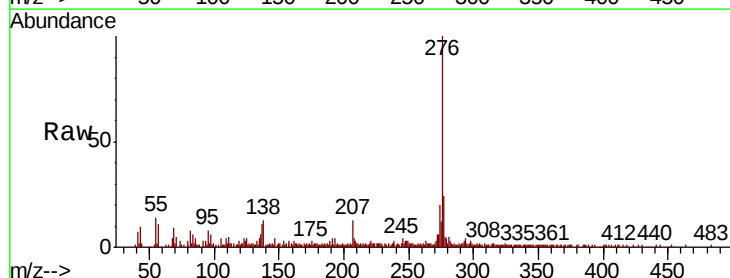
Tgt Ion:276 Resp: 205033

Ion Ratio Lower Upper

276 100

277 24.0 19.8 29.6

138 13.1 9.7 14.5



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

