

Data File : BG044117.D  
Acq On : 21 Jan 2020 3:31  
Operator : JU  
Sample : L1176-06  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
EP-4

Quant Time: Jan 21 04:54:48 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 31 13:32:23 2019  
Response via : Initial Calibration

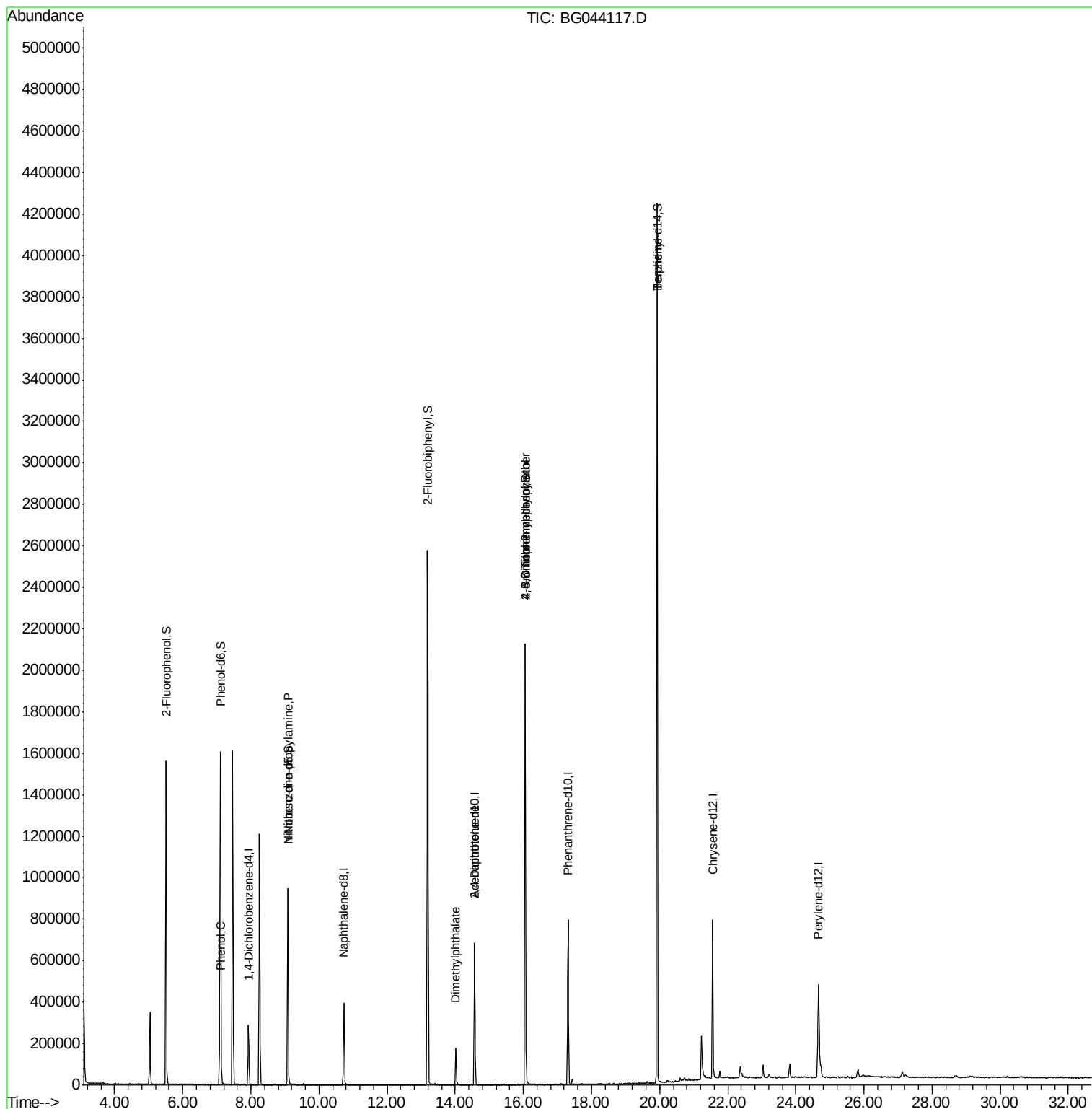
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.93  | 152  | 83523    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.73 | 136  | 362958   | 20.00  | ng    | -0.03    |
| 39) Acenaphthene-d10           | 14.57 | 164  | 253552   | 20.00  | ng    | -0.03    |
| 64) Phenanthrene-d10           | 17.31 | 188  | 514674   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.55 | 240  | 436979   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 24.67 | 264  | 480503   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 725833   | 159.56 | ng    | -0.03    |
| 7) Phenol-d6                   | 7.11  | 99   | 1048447  | 164.89 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.09  | 82   | 610925   | 90.04  | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.06 | 330  | 403051   | 151.90 | ng    | -0.03    |
| 45) 2-Fluorobiphenyl           | 13.19 | 172  | 1441859  | 103.03 | ng    | -0.03    |
| 79) Terphenyl-d14              | 19.93 | 244  | 1978240  | 121.32 | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.13  | 94   | 38913    | 5.940  | ng    | 99       |
| 19) n-Nitroso-di-n-propylamine | 9.09  | 70   | 80318    | 16.962 | ng    | # 77     |
| 50) Dimethylphthalate          | 14.02 | 163  | 139683   | 7.759  | ng    | 96       |
| 57) 2,4-Dinitrotoluene         | 14.57 | 165  | 32669    | 5.900  | ng    | # 27     |
| 65) 4,6-Dinitro-2-methylphenol | 16.06 | 198  | 1390     | 4.866  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.06 | 248  | 28993    | 5.009  | ng    | # 1      |
| 77) Benzidine                  | 19.93 | 184  | 35188    | 3.204  | ng    | # 92     |

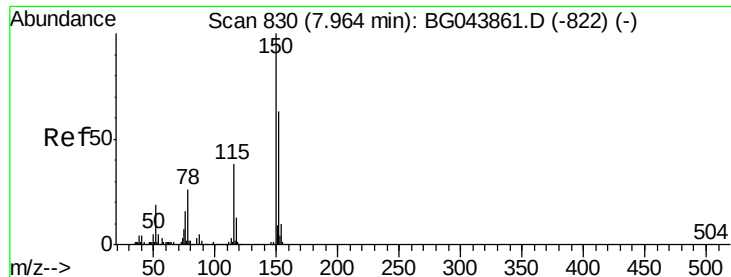
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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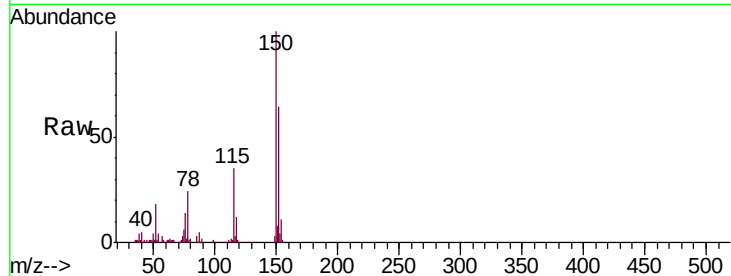


#1

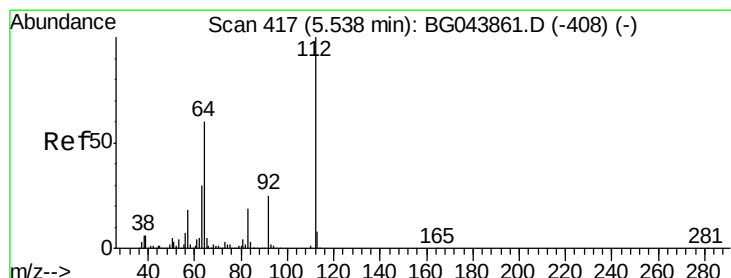
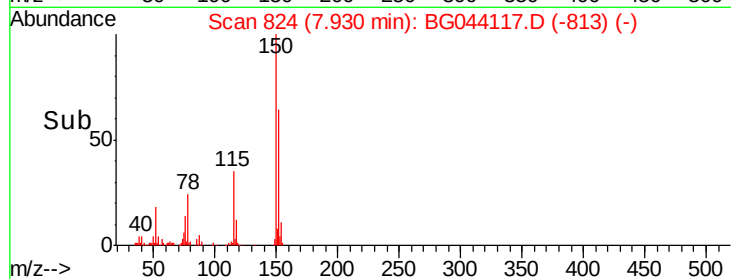
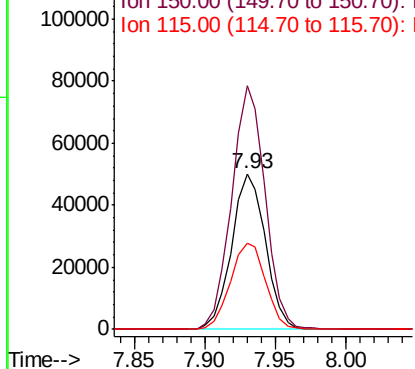
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.93 min Scan# 824  
Delta R.T. -0.03 min  
Lab File: BG044117.D  
Acq: 21 Jan 2020 3:31

Instrument :  
BNA\_G  
ClientSampleId :  
EP-4

Tgt Ion:152 Resp: 83523  
Ion Ratio Lower Upper  
152 100  
150 156.5 127.0 190.4  
115 55.3 47.8 71.8



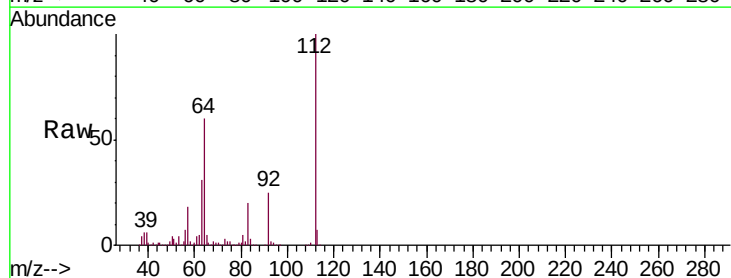
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



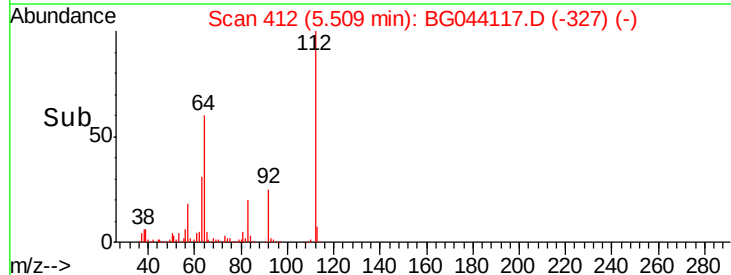
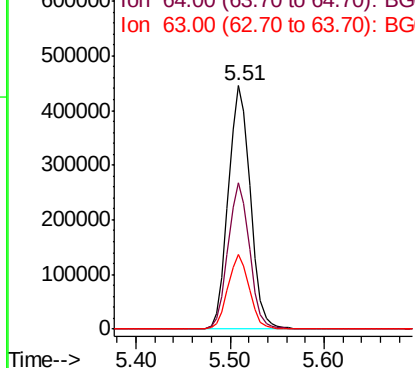
#5

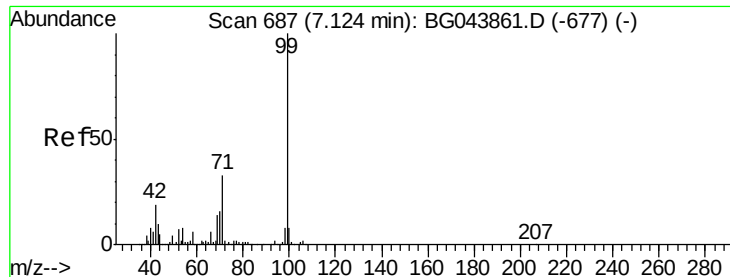
2-Fluorophenol  
Concen: 159.563 ng  
RT: 5.51 min Scan# 412  
Delta R.T. -0.03 min  
Lab File: BG044117.D  
Acq: 21 Jan 2020 3:31

Tgt Ion:112 Resp: 725833  
Ion Ratio Lower Upper  
112 100  
64 60.1 47.8 71.6  
63 30.8 24.3 36.5



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: 164.889 ng

RT: 7.11 min Scan# 684

Delta R.T. -0.02 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

Instrument :

BNA\_G

ClientSampleId :

EP-4

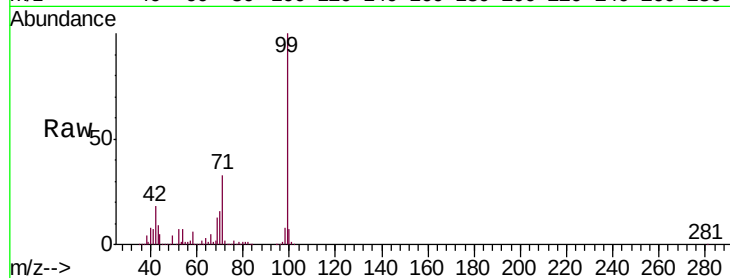
Tgt Ion: 99 Resp: 1048447

Ion Ratio Lower Upper

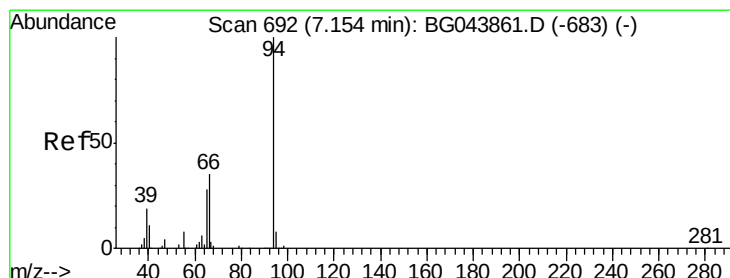
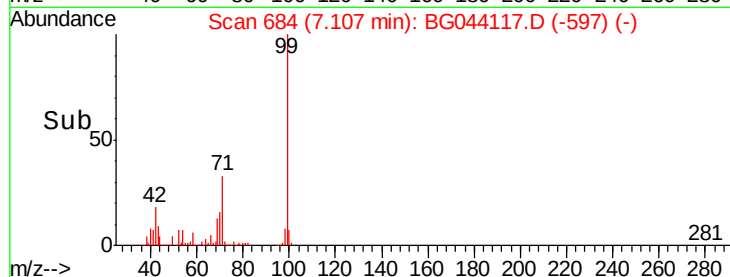
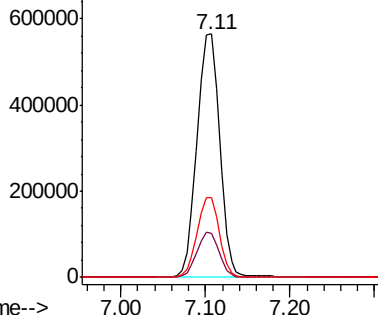
99 100

42 17.9 14.9 22.3

71 32.9 26.4 39.6



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



#10

Phenol

Concen: 5.940 ng

RT: 7.13 min Scan# 688

Delta R.T. -0.02 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

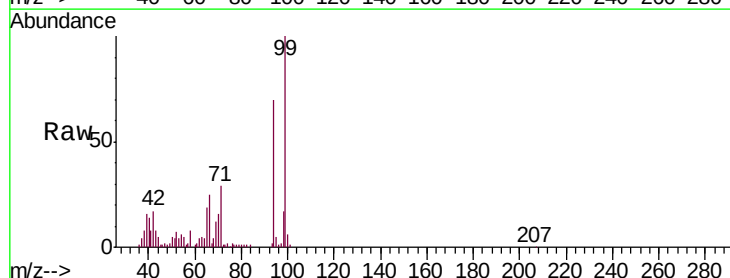
Tgt Ion: 94 Resp: 38913

Ion Ratio Lower Upper

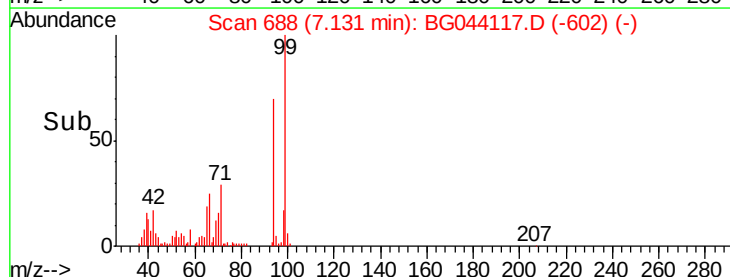
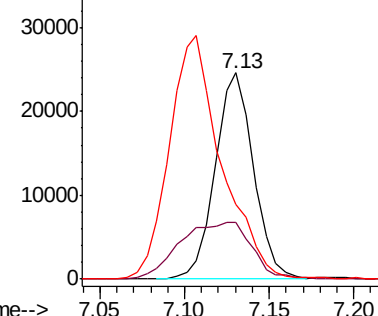
94 100

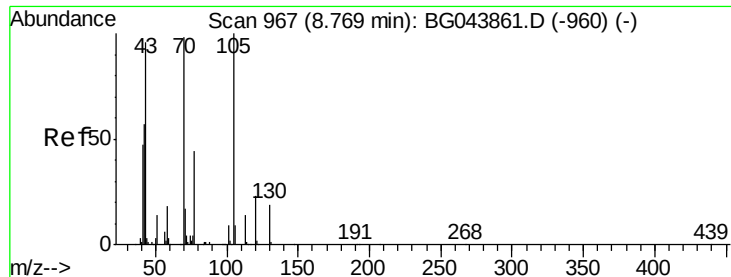
65 27.4 8.1 48.1

66 36.1 15.6 55.6



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

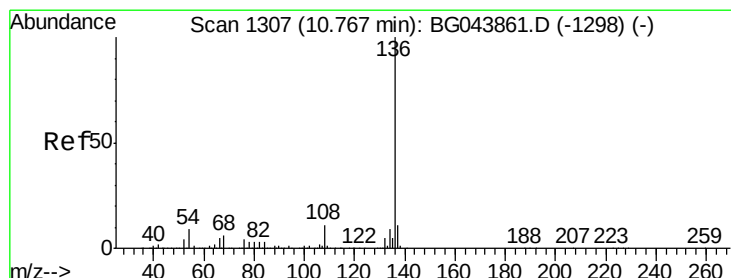
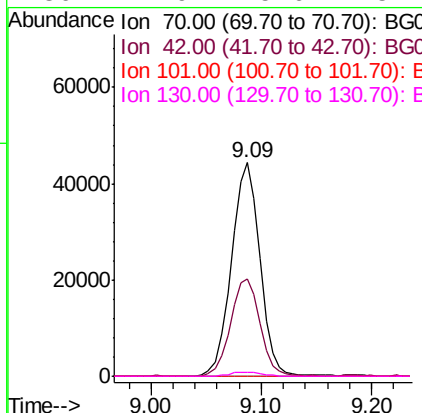
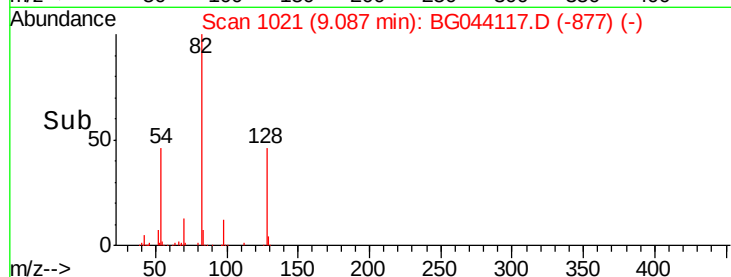
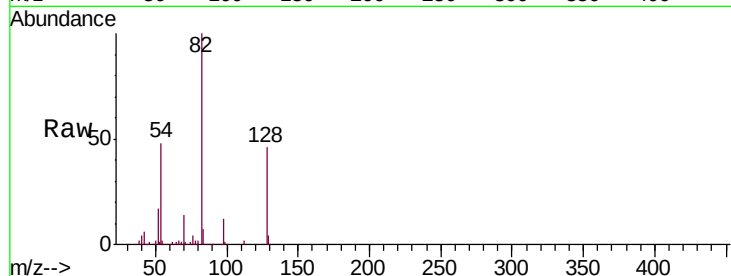




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.962 ng  
RT: 9.09 min Scan# 1021  
Delta R.T. 0.32 min  
Lab File: BG044117.D  
Acq: 21 Jan 2020 3:31

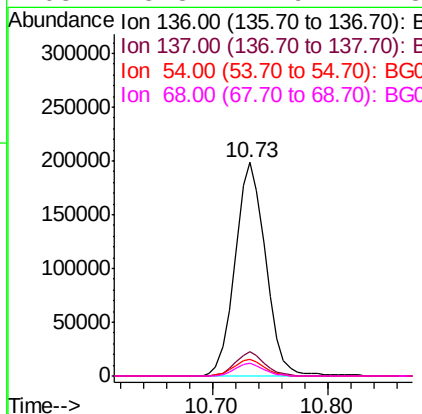
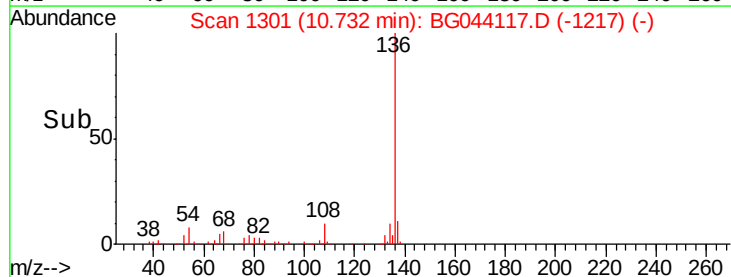
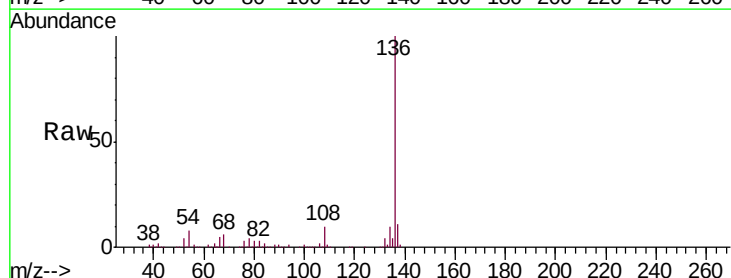
Instrument :  
BNA\_G  
ClientSampleId :  
EP-4

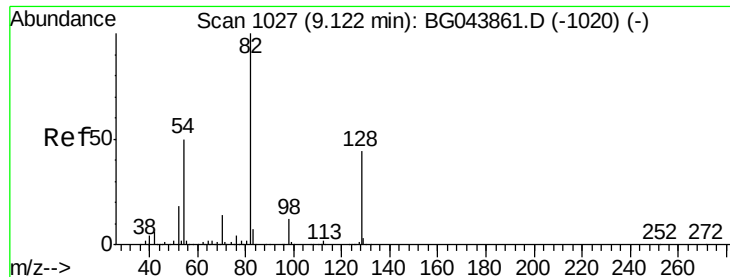
Tgt Ion: 70 Resp: 80318  
Ion Ratio Lower Upper  
70 100  
42 45.7 47.0 70.4#  
101 0.0 7.2 10.8#  
130 1.9 15.6 23.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.73 min Scan# 1301  
Delta R.T. -0.03 min  
Lab File: BG044117.D  
Acq: 21 Jan 2020 3:31

Tgt Ion: 136 Resp: 362958  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.8 13.2  
54 7.6 7.0 10.4  
68 5.8 4.9 7.3

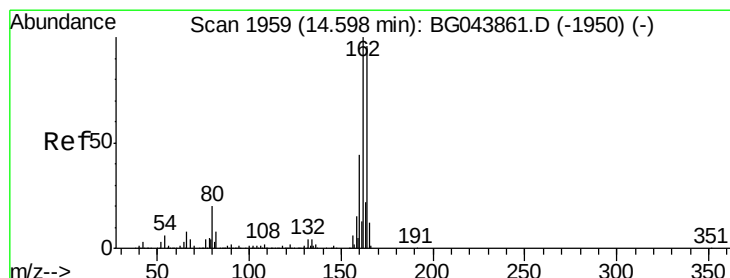
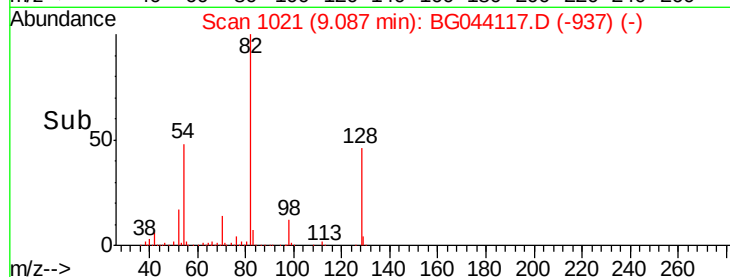
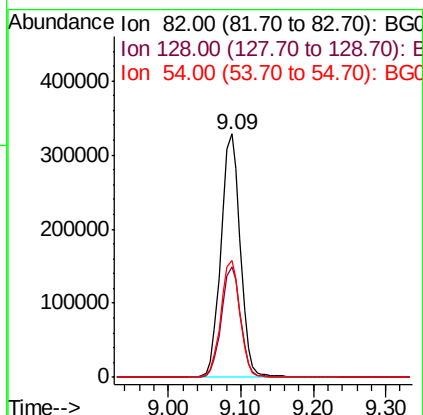
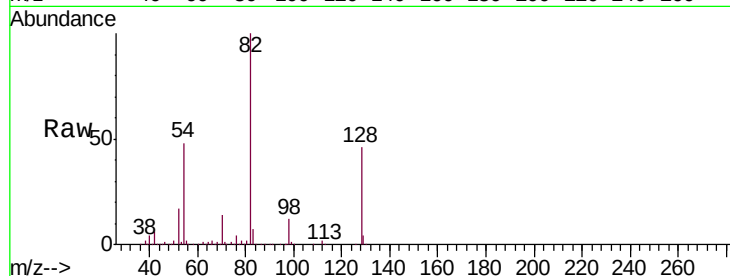




#23  
 Nitrobenzene-d5  
 Concen: 90.043 ng  
 RT: 9.09 min Scan# 1021  
 Delta R.T. -0.03 min  
 Lab File: BG044117.D  
 Acq: 21 Jan 2020 3:31

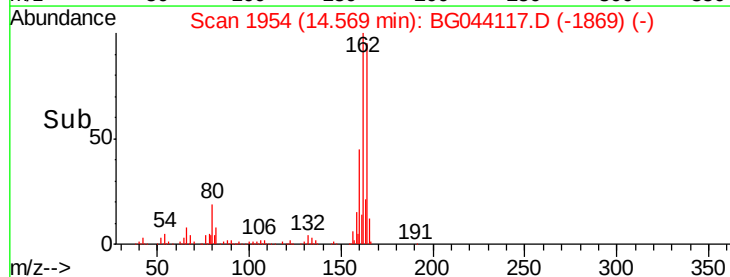
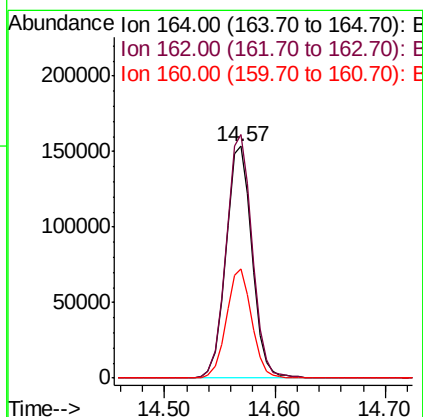
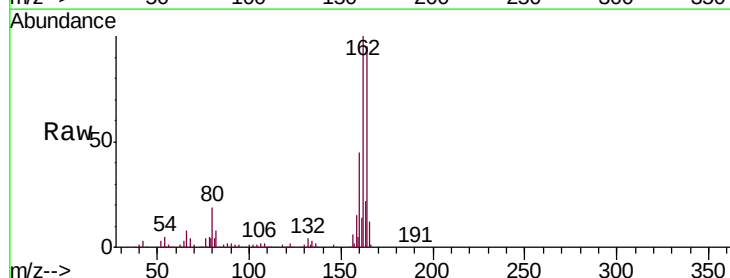
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EP-4

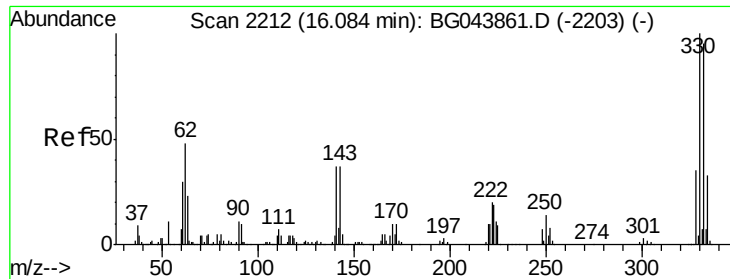
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.6  | 35.1  | 52.7  |
| 54      | 48.2  | 40.1  | 60.1  |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.57 min Scan# 1954  
 Delta R.T. -0.03 min  
 Lab File: BG044117.D  
 Acq: 21 Jan 2020 3:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.2 | 83.0  | 124.4 |
| 160     | 47.4  | 36.1  | 54.1  |

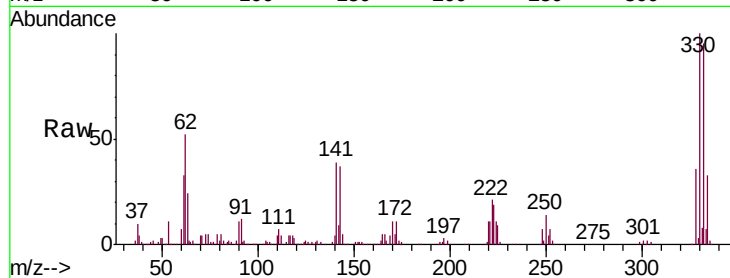




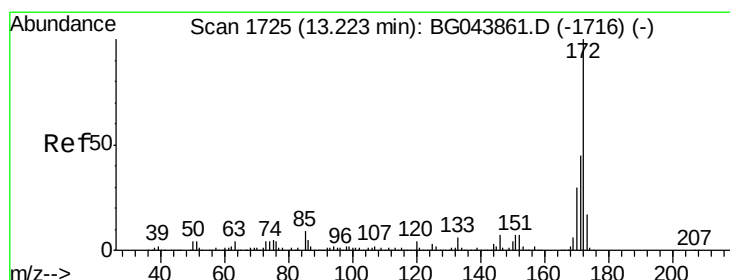
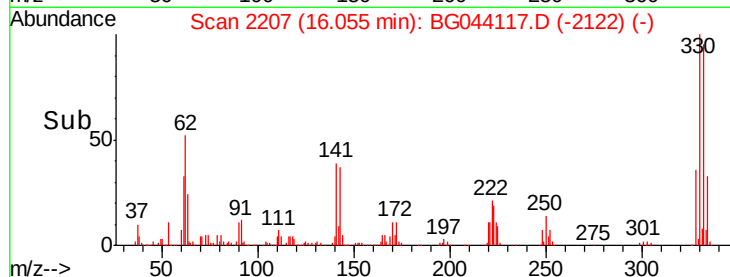
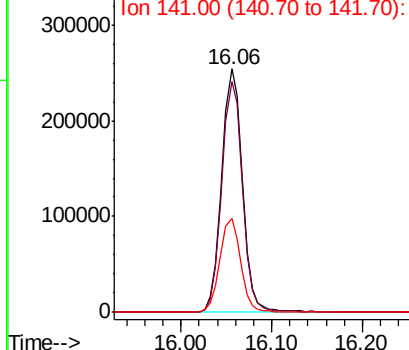
#42  
 2,4,6-Tribromophenol  
 Concen: 151.902 ng  
 RT: 16.06 min Scan# 2207  
 Delta R.T. -0.03 min  
 Lab File: BG044117.D  
 Acq: 21 Jan 2020 3:31

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EP-4

Tgt Ion:330 Resp: 403051  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 77.2 115.8  
 141 38.7 33.1 49.7

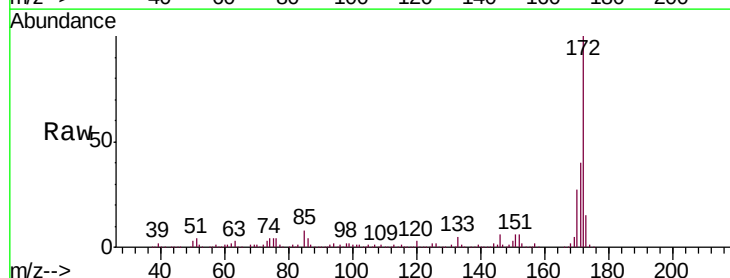


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

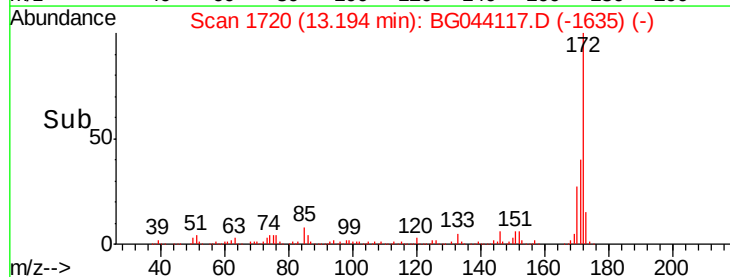
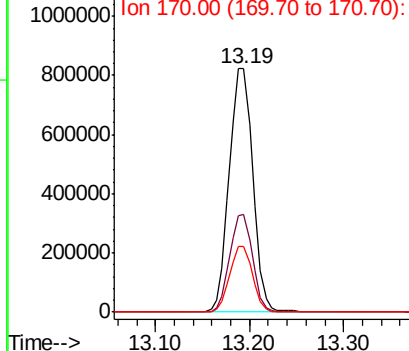


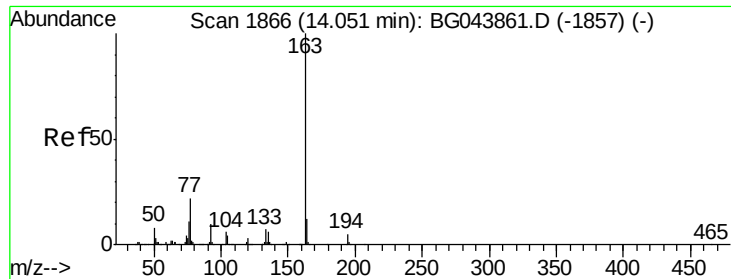
#45  
 2-Fluorobiphenyl  
 Concen: 103.029 ng  
 RT: 13.19 min Scan# 1720  
 Delta R.T. -0.03 min  
 Lab File: BG044117.D  
 Acq: 21 Jan 2020 3:31

Tgt Ion:172 Resp: 1441859  
 Ion Ratio Lower Upper  
 172 100  
 171 40.2 35.8 53.8  
 170 27.2 24.2 36.4



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: 7.759 ng

RT: 14.02 min Scan# 1860

Delta R.T. -0.03 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

Instrument :

BNA\_G

ClientSampled :

EP-4

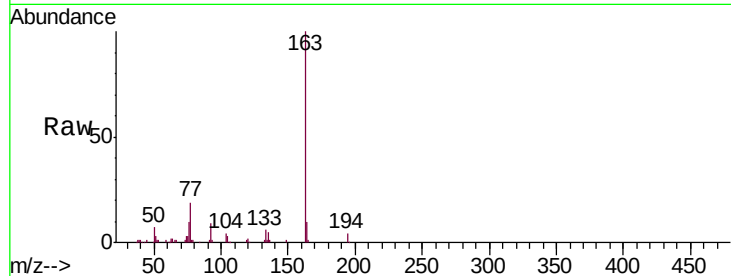
Tgt Ion:163 Resp: 139683

Ion Ratio Lower Upper

163 100

194 4.0 3.7 5.5

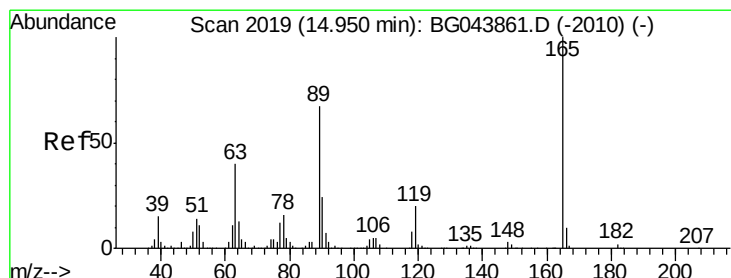
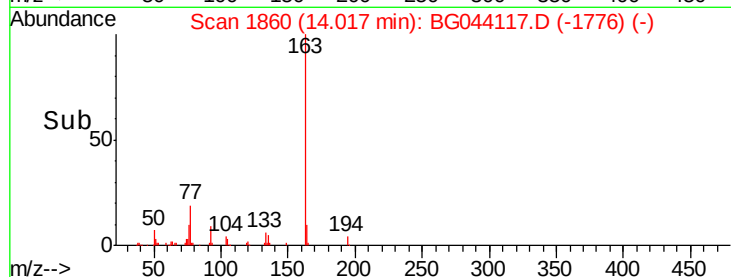
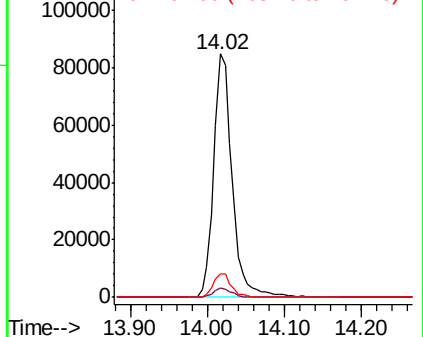
164 9.7 9.3 13.9



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



#57

2,4-Dinitrotoluene

Concen: 5.900 ng

RT: 14.57 min Scan# 1954

Delta R.T. -0.38 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

Tgt Ion:165 Resp: 32669

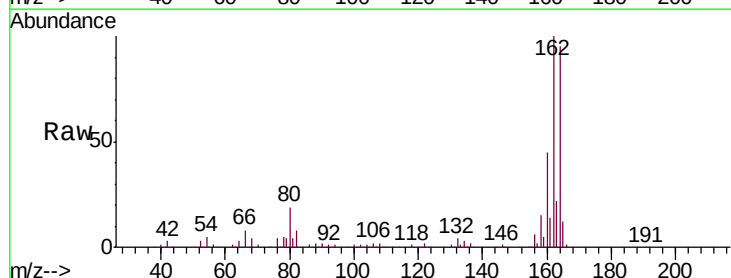
Ion Ratio Lower Upper

165 100

63 1.9 31.9 47.9#

89 1.5 53.8 80.6#

182 0.0 2.0 3.0#

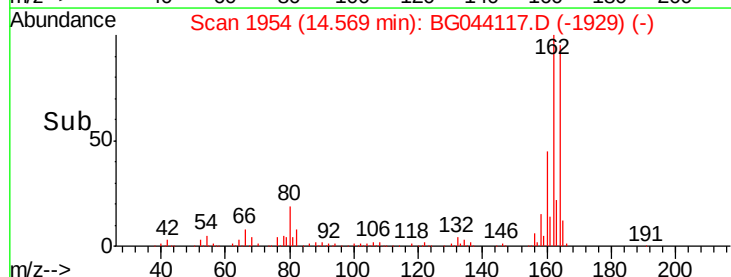
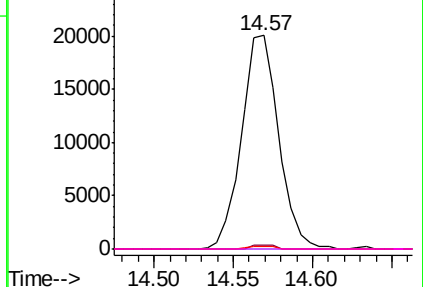


Abundance Ion 165.00 (164.70 to 165.70): E

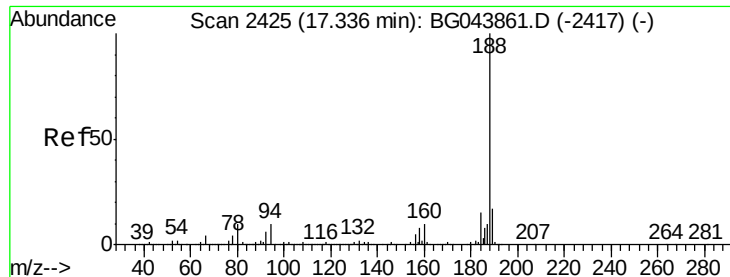
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.31 min Scan# 2421

Delta R.T. -0.02 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

Instrument :

BNA\_G

ClientSampleId :

EP-4

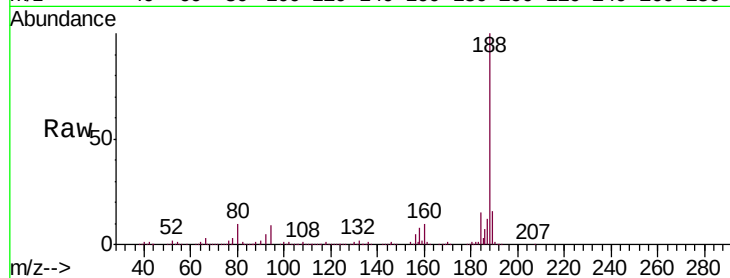
Tgt Ion:188 Resp: 514674

Ion Ratio Lower Upper

188 100

94 9.0 7.9 11.9

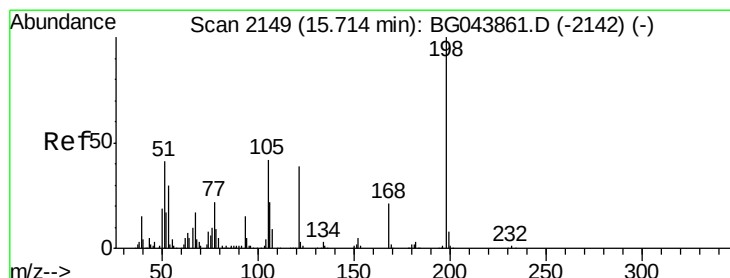
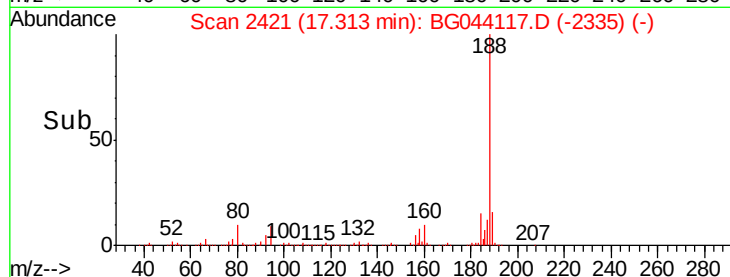
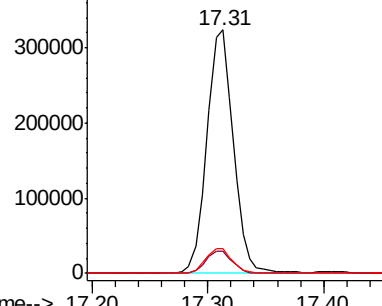
80 10.0 8.2 12.4



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#65

4,6-Dinitro-2-methylphenol

Concen: 4.866 ng

RT: 16.06 min Scan# 2207

Delta R.T. 0.34 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

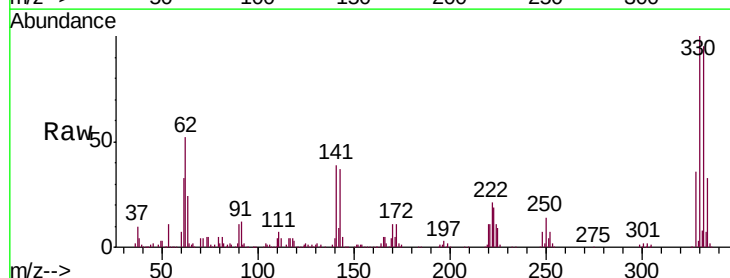
Tgt Ion:198 Resp: 1390

Ion Ratio Lower Upper

198 100

51 139.3 22.5 62.5#

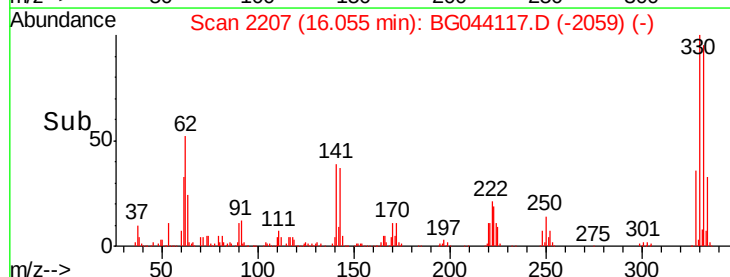
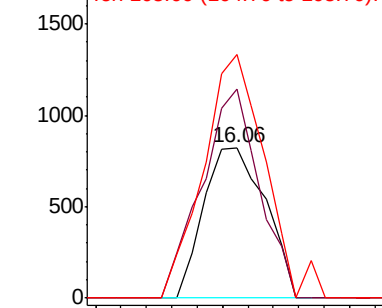
105 162.0 22.3 62.3#

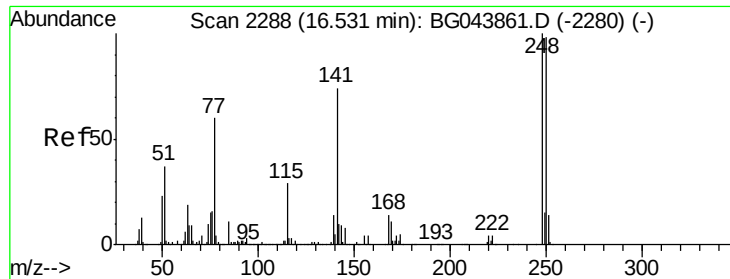


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

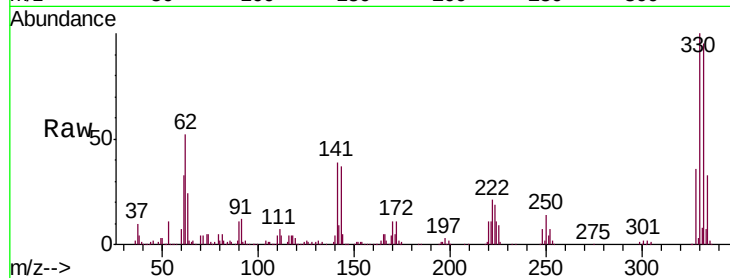




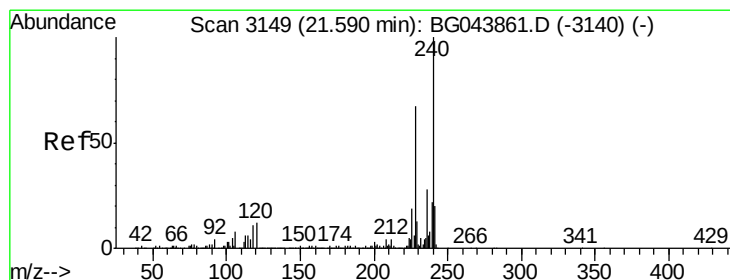
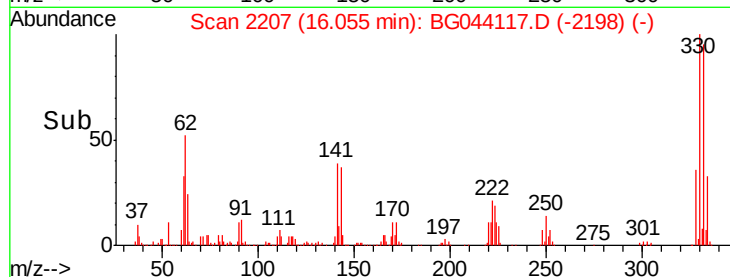
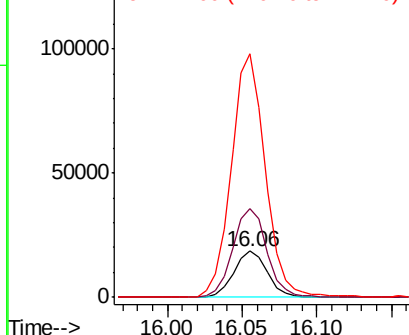
#67  
 4-Bromophenyl-phenylether  
 Concen: 5.009 ng  
 RT: 16.06 min Scan# 2207  
 Delta R.T. -0.48 min  
 Lab File: BG044117.D  
 Acq: 21 Jan 2020 3:31

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EP-4

Tgt Ion:248 Resp: 28993  
 Ion Ratio Lower Upper  
 248 100  
 250 191.8 78.2 117.2#  
 141 524.3 59.3 88.9#

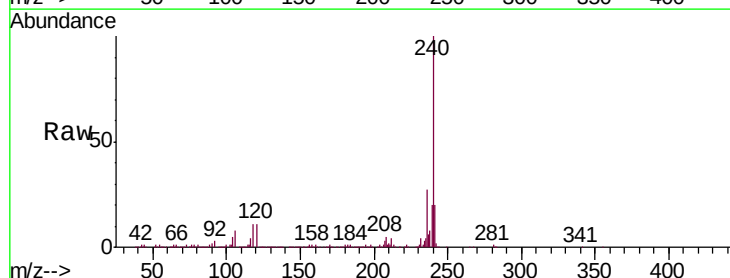


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

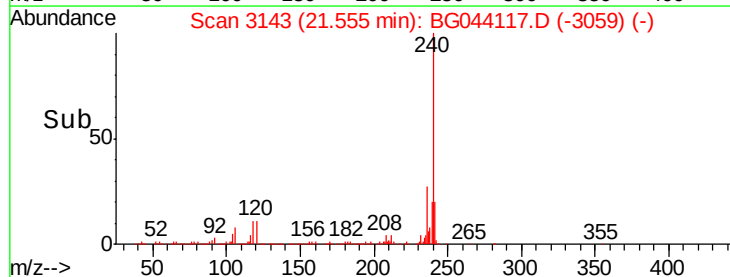
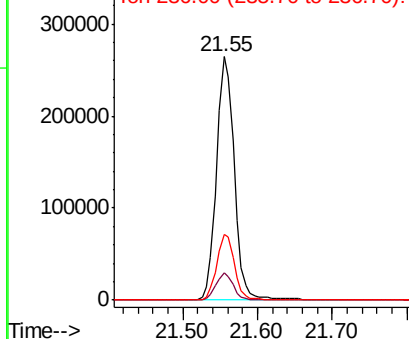


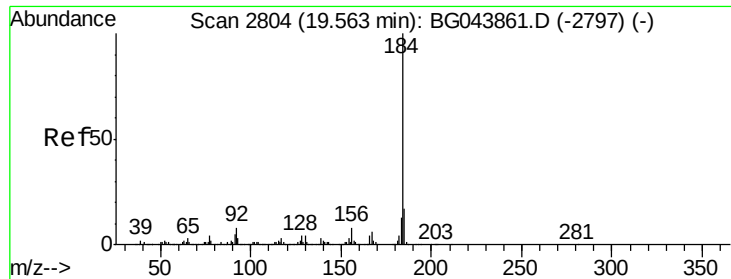
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.55 min Scan# 3143  
 Delta R.T. -0.03 min  
 Lab File: BG044117.D  
 Acq: 21 Jan 2020 3:31

Tgt Ion:240 Resp: 436979  
 Ion Ratio Lower Upper  
 240 100  
 120 11.0 9.6 14.4  
 236 26.8 22.2 33.2



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





#77

Benzidine

Concen: 3.204 ng

RT: 19.93 min Scan# 2866

Delta R.T. 0.36 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

Instrument :

BNA\_G

ClientSampleId :

EP-4

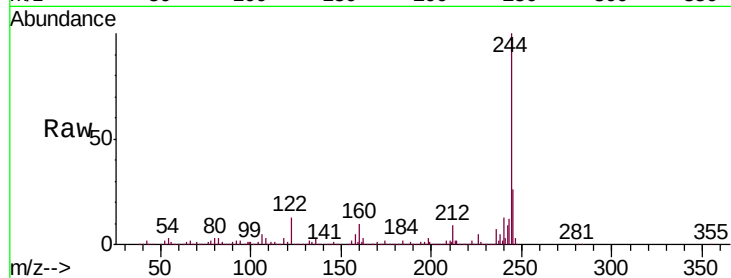
Tgt Ion:184 Resp: 35188

Ion Ratio Lower Upper

184 100

185 15.8 13.4 20.0

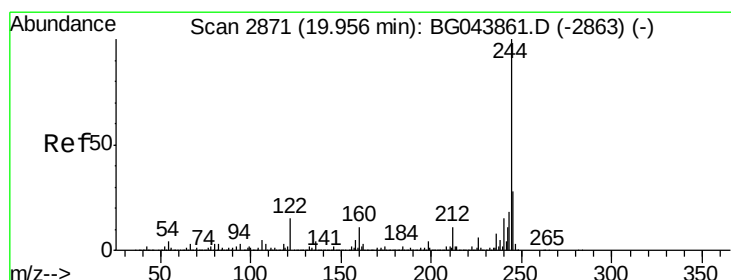
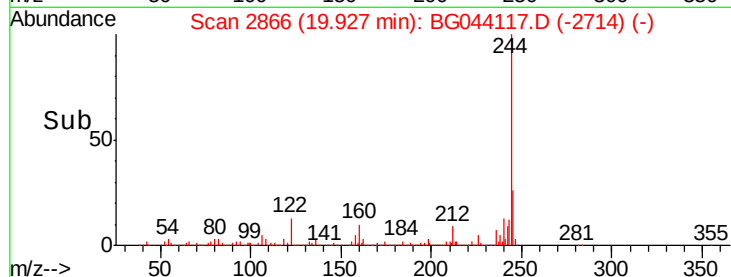
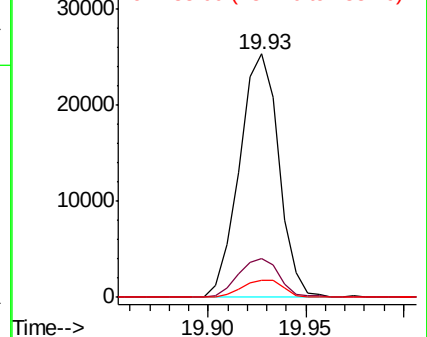
183 7.0 10.6 15.8#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 121.320 ng

RT: 19.93 min Scan# 2866

Delta R.T. -0.03 min

Lab File: BG044117.D

Acq: 21 Jan 2020 3:31

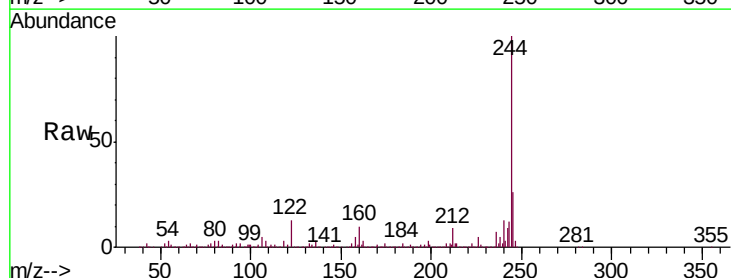
Tgt Ion:244 Resp: 1978240

Ion Ratio Lower Upper

244 100

212 9.5 8.6 13.0

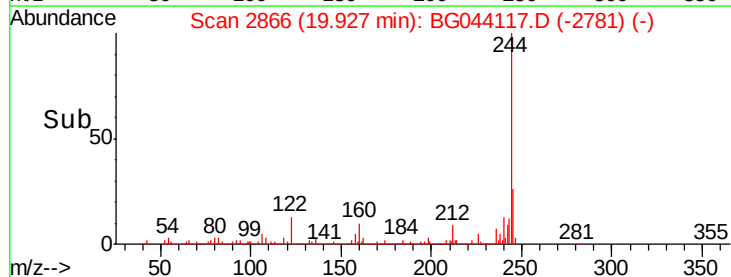
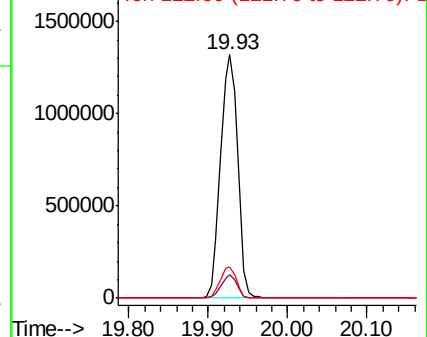
122 12.9 11.9 17.9

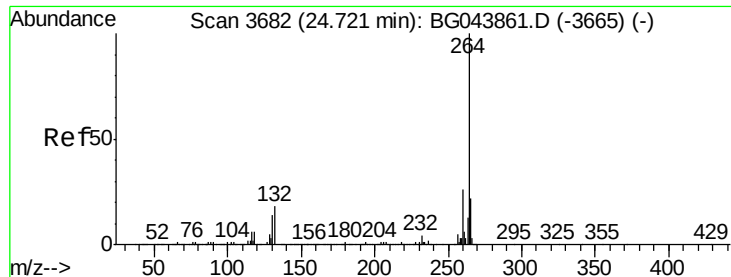


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.67 min Scan# 3673  
Delta R.T. -0.05 min  
Lab File: BG044117.D  
Acq: 21 Jan 2020 3:31

Instrument :  
BNA\_G  
ClientSampleId :  
EP-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 20.4  | 30.6  |
| 265     | 21.9  | 17.4  | 26.2  |

