

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG110719\  
 Data File : BG043540.D  
 Acq On : 7 Nov 2019 15:38  
 Operator : JU  
 Sample : PB124565BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124565BL

Quant Time: Nov 08 04:15:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 04 15:22:15 2019  
 Response via : Initial Calibration

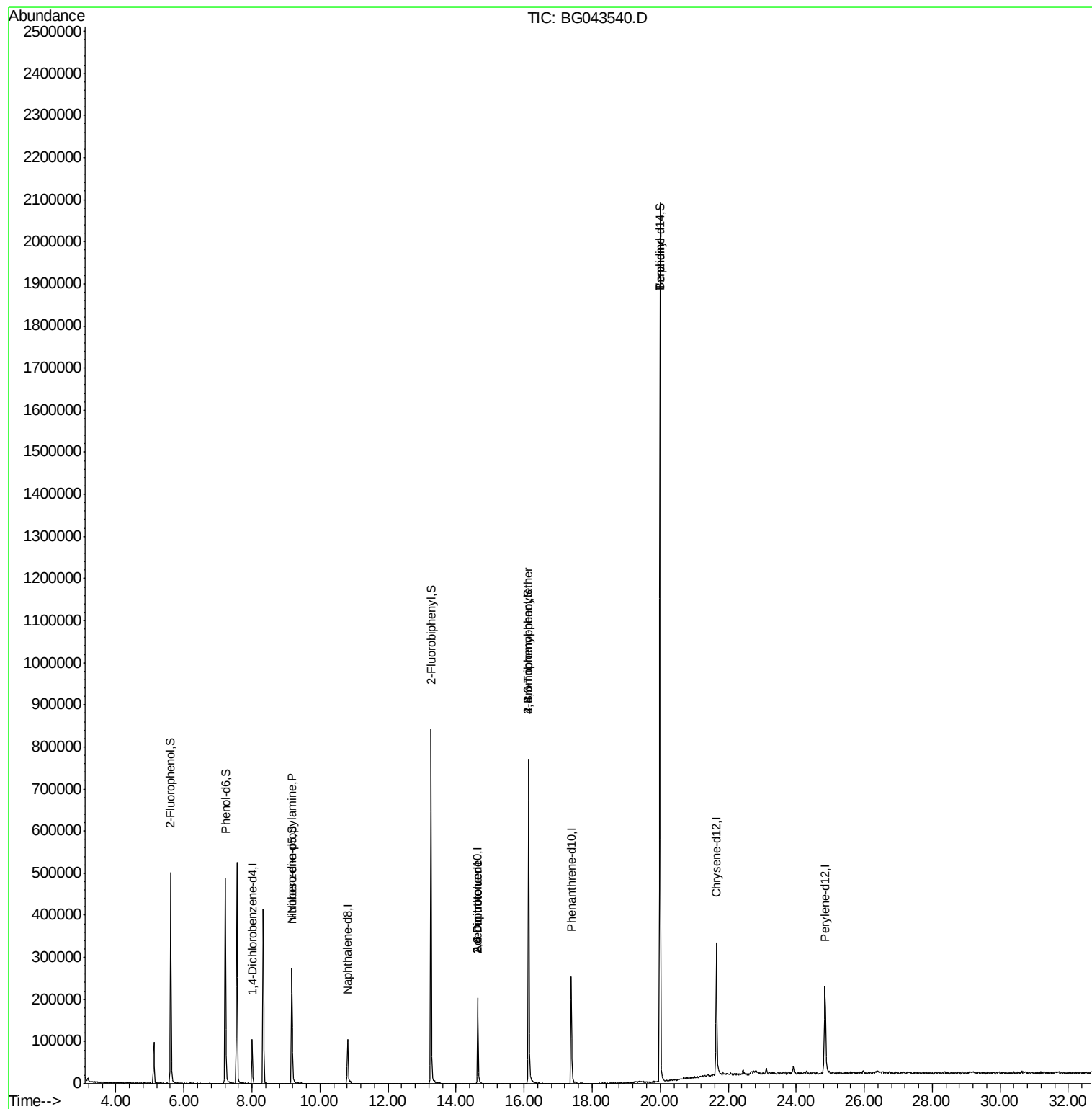
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.01  | 152  | 32708    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.81 | 136  | 109515   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.64 | 164  | 81527    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.38 | 188  | 204791   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.65 | 240  | 227092   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.84 | 264  | 257566   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 236615   | 132.56 | ng    | 0.02     |
| 7) Phenol-d6                   | 7.22  | 99   | 317528   | 123.64 | ng    | 0.02     |
| 23) Nitrobenzene-d5            | 9.17  | 82   | 187118   | 88.09  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.13 | 330  | 196050   | 126.36 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.26 | 172  | 500794   | 84.88  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.00 | 244  | 1131588  | 93.48  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 25809    | 15.553 | ng    | # 79     |
| 51) 2,6-Dinitrotoluene         | 14.64 | 165  | 10513    | 7.663  | ng    | # 22     |
| 57) 2,4-Dinitrotoluene         | 14.64 | 165  | 10513    | 5.362  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 16.13 | 248  | 12579    | 4.564  | ng    | # 1      |
| 77) Benzidine                  | 20.00 | 184  | 16114    | 3.526  | ng    | # 86     |

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

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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB124565BL

Quant Time: Nov 08 04:15:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG102119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 04 15:22:15 2019  
Response via : Initial Calibration



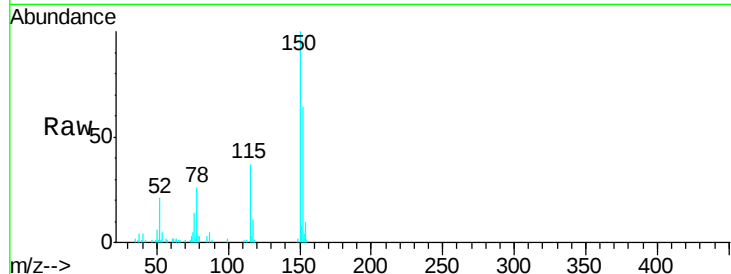


#1

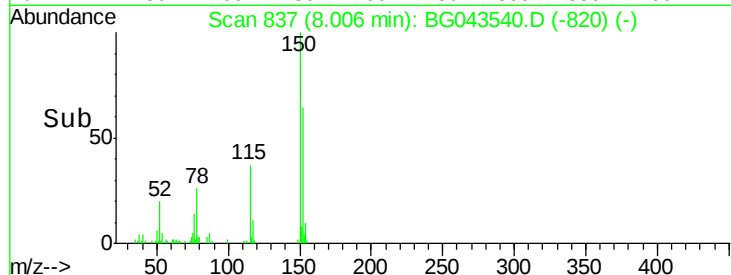
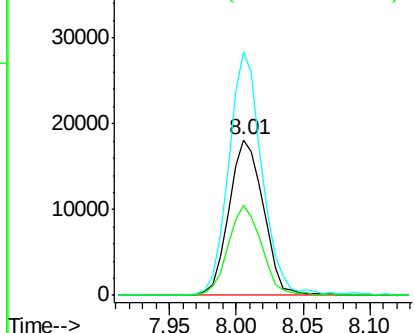
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 837  
Delta R.T. -0.00 min  
Lab File: BG043540.D  
Acq: 7 Nov 2019 15:38

Instrument :  
BNA\_G  
ClientSampleId :  
PB124565BL

Tgt Ion:152 Resp: 32708  
Ion Ratio Lower Upper  
152 100  
150 156.2 129.4 194.0  
115 57.8 48.8 73.2



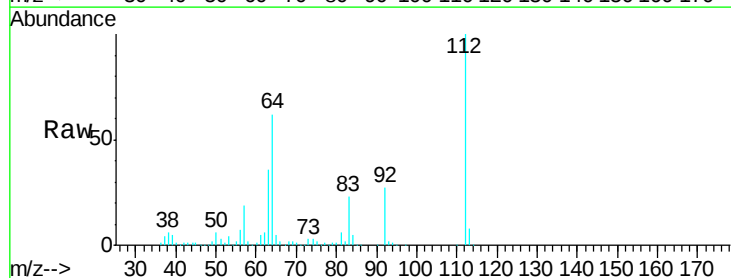
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



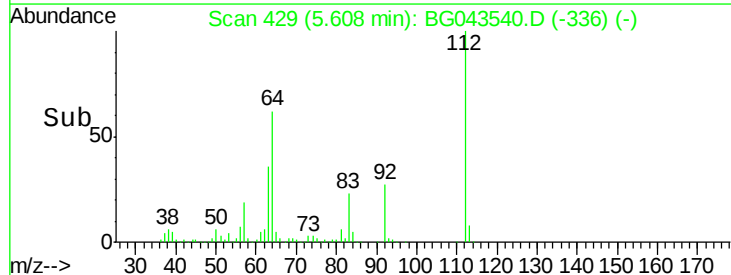
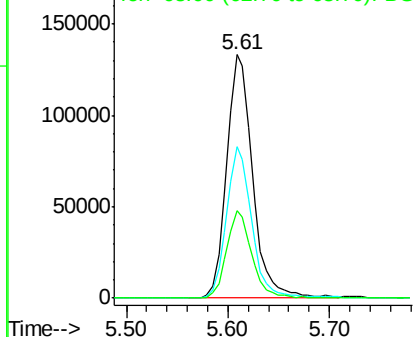
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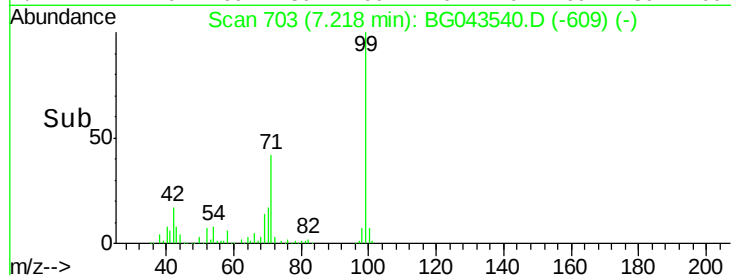
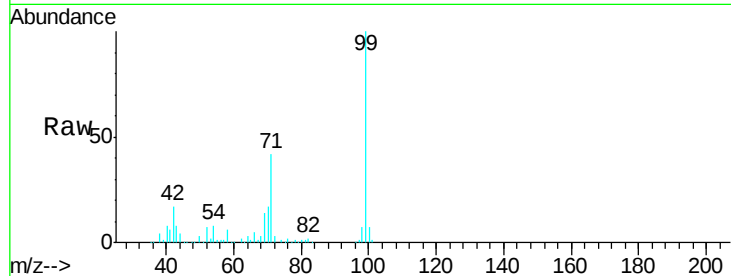
2-Fluorophenol  
Concen: 132.562 ng  
RT: 5.61 min Scan# 429  
Delta R.T. 0.02 min  
Lab File: BG043540.D  
Acq: 7 Nov 2019 15:38

Tgt Ion:112 Resp: 236615  
Ion Ratio Lower Upper  
112 100  
64 62.3 50.0 75.0  
63 36.0 26.6 40.0



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





#7

Phenol-d6

Concen: 123.643 ng

RT: 7.22 min Scan# 703

Delta R.T. 0.02 min

Lab File: BG043540.D

Acq: 7 Nov 2019 15:38

Instrument :

BNA\_G

ClientSampleId :

PB124565BL

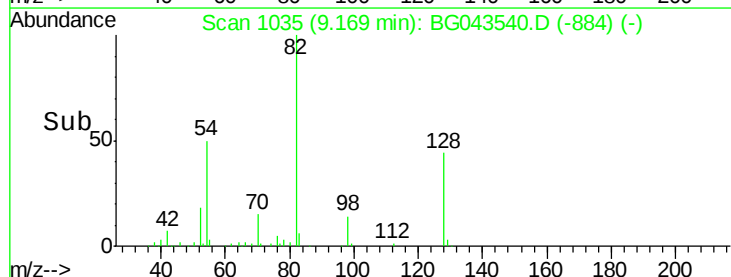
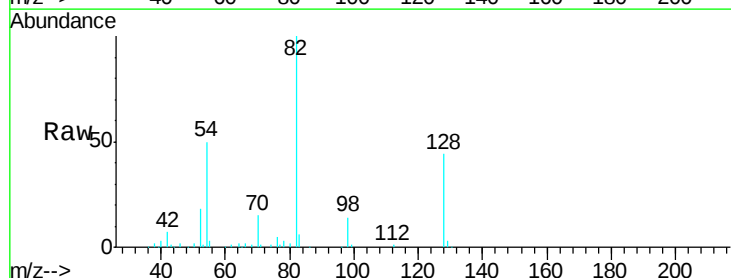
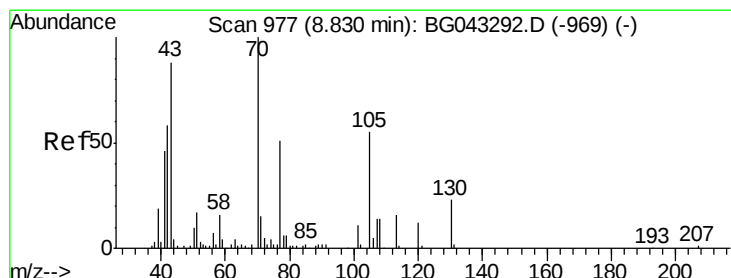
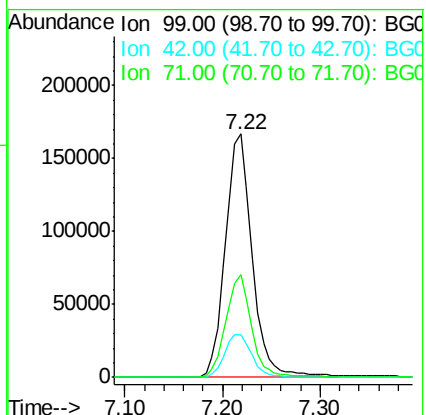
Tgt Ion: 99 Resp: 317528

Ion Ratio Lower Upper

99 100

42 17.4 14.6 21.8

71 42.2 32.5 48.7



#19

n-Nitroso-di-n-propylamine

Concen: 15.553 ng

RT: 9.17 min Scan# 1035

Delta R.T. 0.36 min

Lab File: BG043540.D

Acq: 7 Nov 2019 15:38

Tgt Ion: 70 Resp: 25809

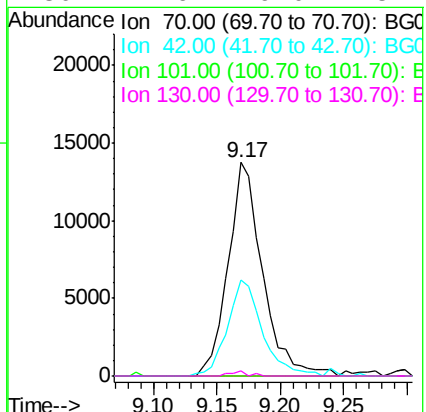
Ion Ratio Lower Upper

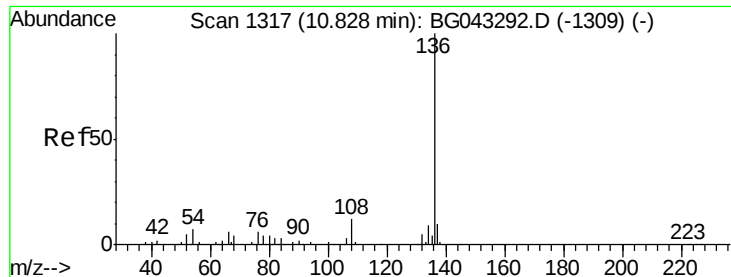
70 100

42 45.1 41.4 62.2

101 0.0 7.9 11.9#

130 2.6 19.0 28.4#

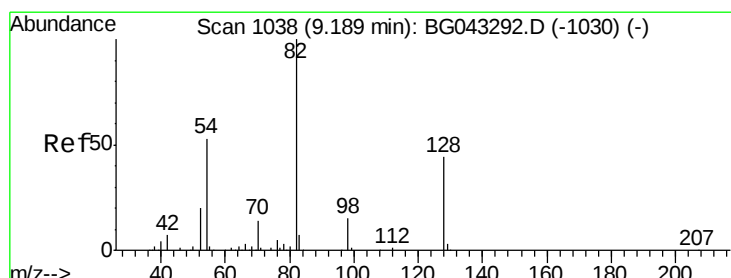
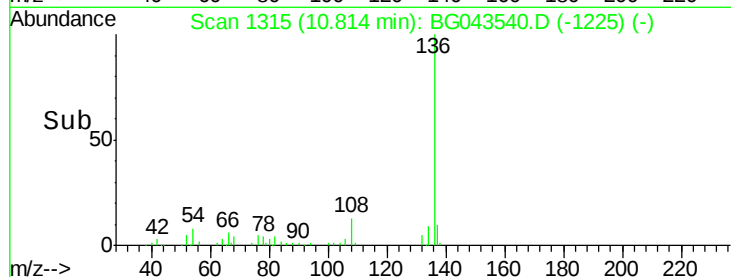
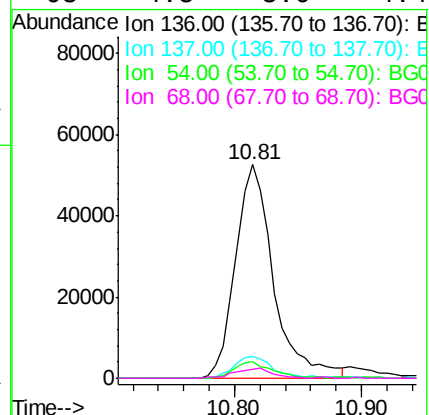
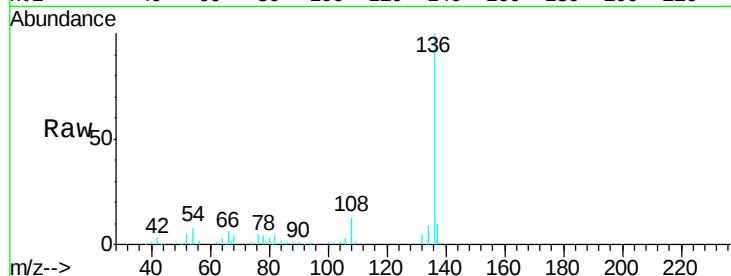




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.81 min Scan# 1315  
Delta R.T. -0.00 min  
Lab File: BG043540.D  
Acq: 7 Nov 2019 15:38

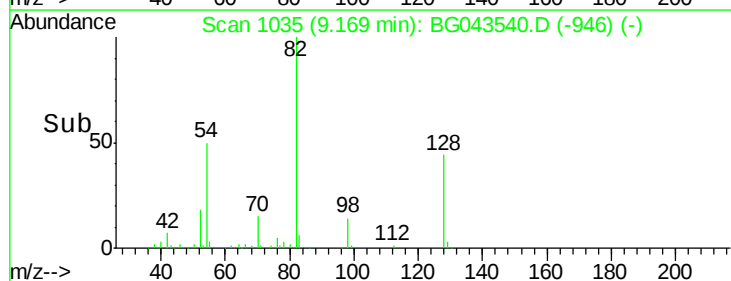
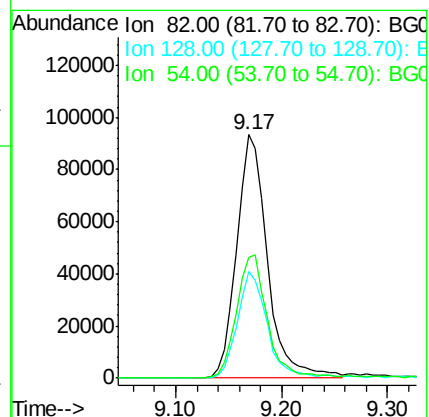
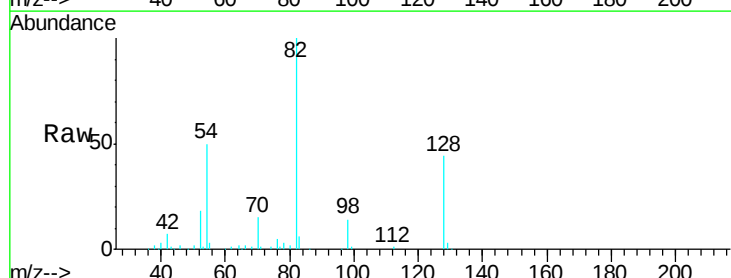
Instrument :  
BNA\_G  
ClientSampleId :  
PB124565BL

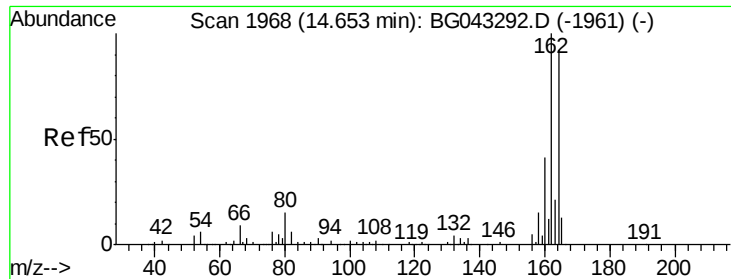
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 109515 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.3  | 8.7   | 13.1   |
| 54       | 7.8   | 5.4   | 8.2    |
| 68       | 4.5   | 3.0   | 4.4#   |



#23  
Nitrobenzene-d5  
Concen: 88.086 ng  
RT: 9.17 min Scan# 1035  
Delta R.T. -0.01 min  
Lab File: BG043540.D  
Acq: 7 Nov 2019 15:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 187118 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.7  | 35.0  | 52.6   |
| 54       | 49.6  | 40.2  | 60.2   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.64 min Scan# 1966

Delta R.T. -0.00 min

Lab File: BG043540.D

Acq: 7 Nov 2019 15:38

Instrument :

BNA\_G

ClientSampleId :

PB124565BL

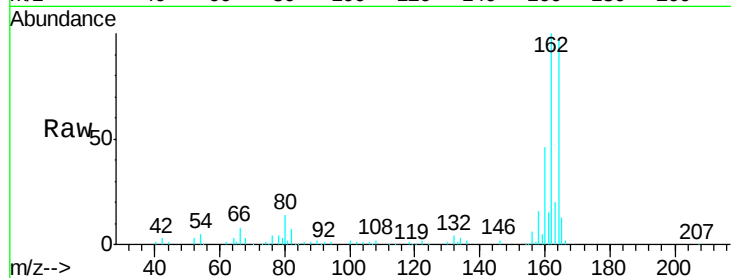
Tgt Ion:164 Resp: 81527

Ion Ratio Lower Upper

164 100

162 103.5 83.5 125.3

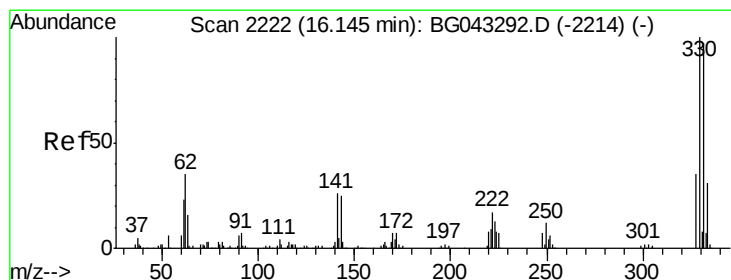
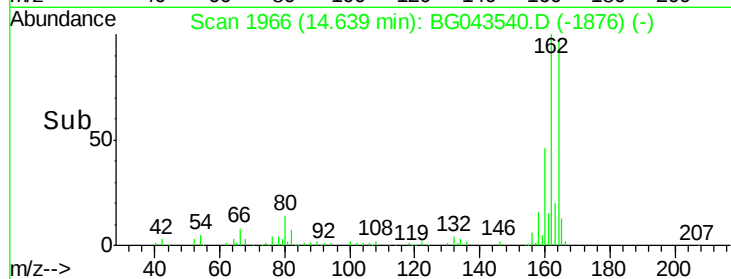
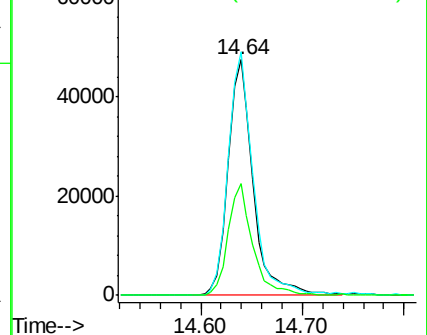
160 47.3 36.5 54.7



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: 126.365 ng

RT: 16.13 min Scan# 2220

Delta R.T. -0.00 min

Lab File: BG043540.D

Acq: 7 Nov 2019 15:38

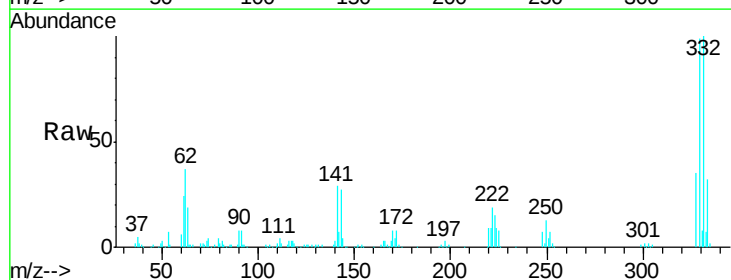
Tgt Ion:330 Resp: 196050

Ion Ratio Lower Upper

330 100

332 99.2 77.4 116.0

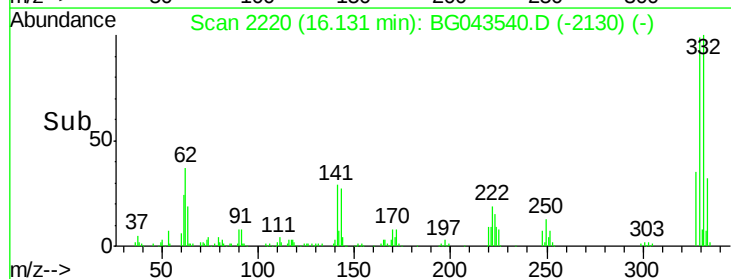
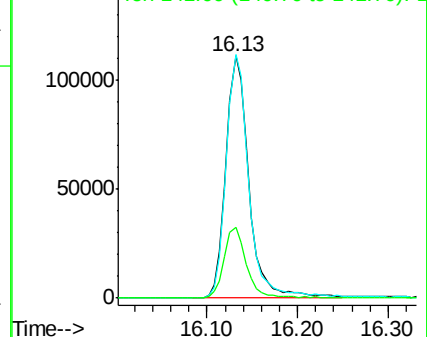
141 28.1 22.8 34.2

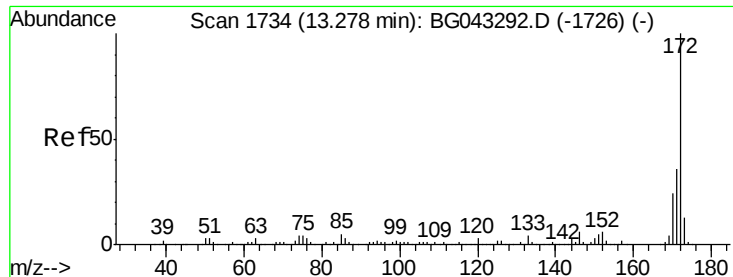


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

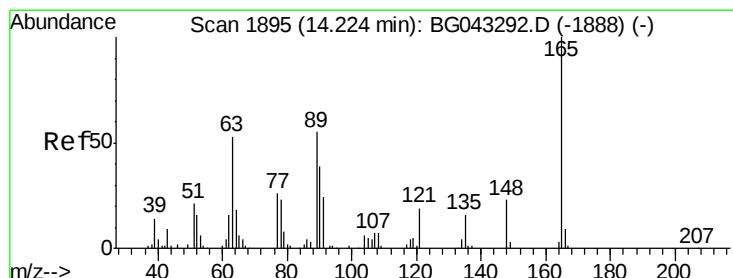
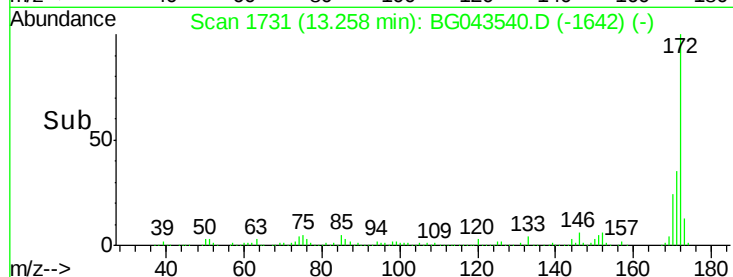
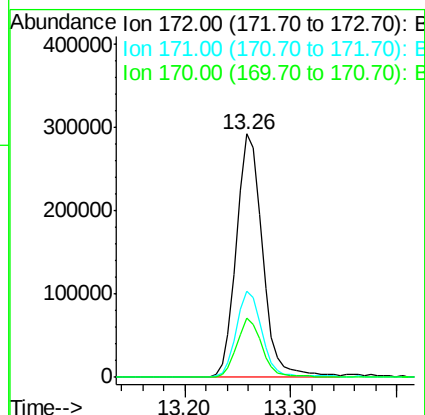
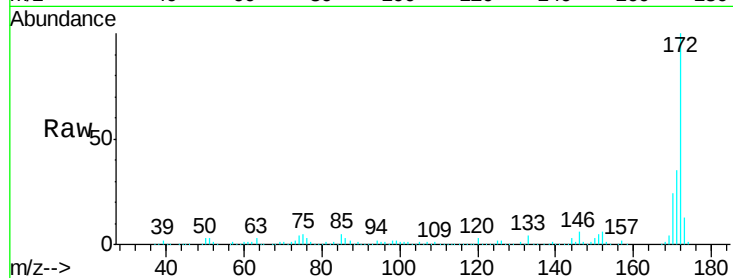




#45  
 2-Fluorobiphenyl  
 Concen: 84.880 ng  
 RT: 13.26 min Scan# 1731  
 Delta R.T. -0.01 min  
 Lab File: BG043540.D  
 Acq: 7 Nov 2019 15:38

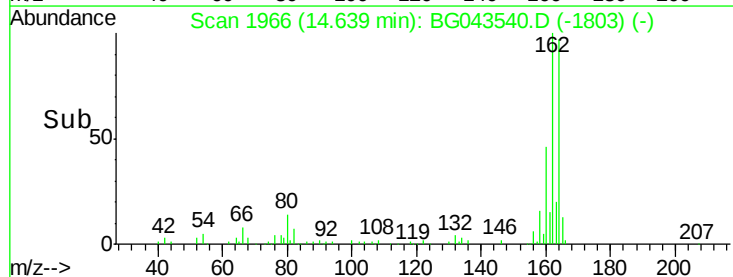
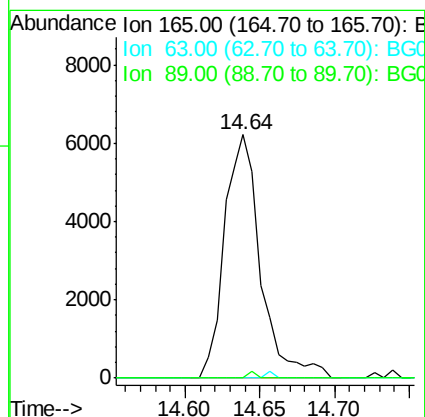
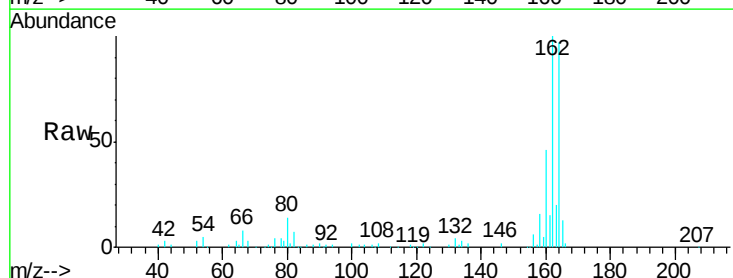
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124565BL

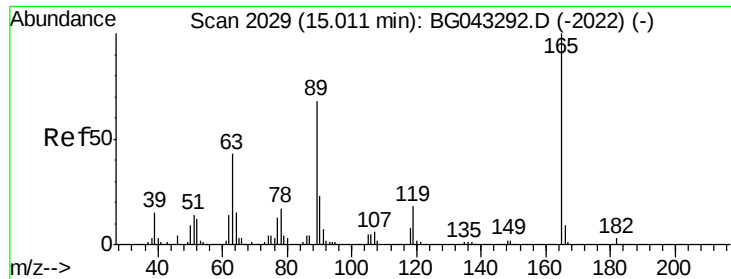
Tgt Ion:172 Resp: 500794  
 Ion Ratio Lower Upper  
 172 100  
 171 35.2 28.9 43.3  
 170 24.4 18.5 27.7



#51  
 2,6-Dinitrotoluene  
 Concen: 7.663 ng  
 RT: 14.64 min Scan# 1966  
 Delta R.T. 0.43 min  
 Lab File: BG043540.D  
 Acq: 7 Nov 2019 15:38

Tgt Ion:165 Resp: 10513  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 46.6 69.8#  
 89 0.0 45.1 67.7#

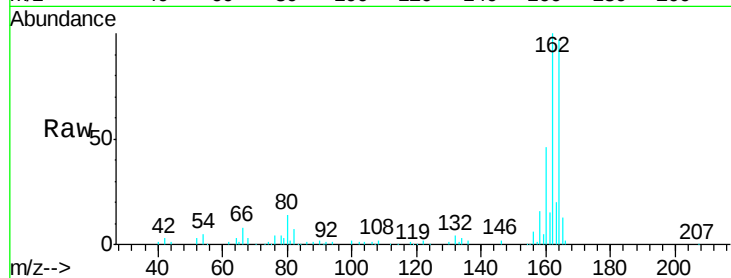




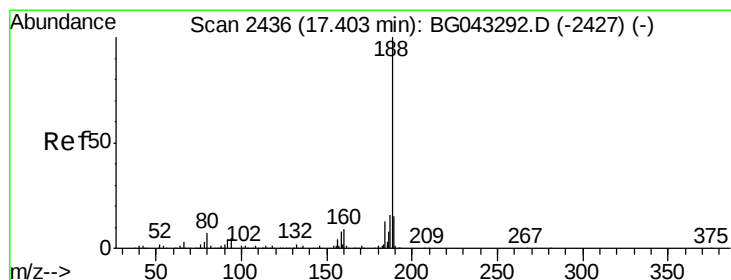
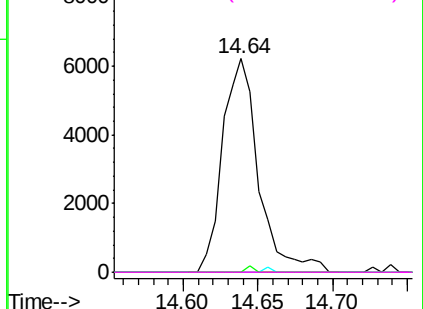
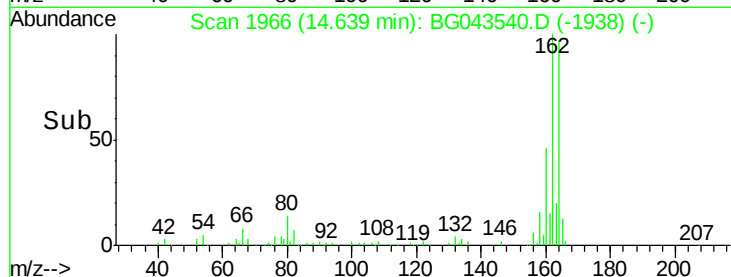
#57  
 2,4-Dinitrotoluene  
 Concen: 5.362 ng  
 RT: 14.64 min Scan# 1966  
 Delta R.T. -0.37 min  
 Lab File: BG043540.D  
 Acq: 7 Nov 2019 15:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124565BL

Tgt Ion:165 Resp: 10513  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 33.2 49.8#  
 89 0.0 52.2 78.4#  
 182 0.0 2.0 3.0#

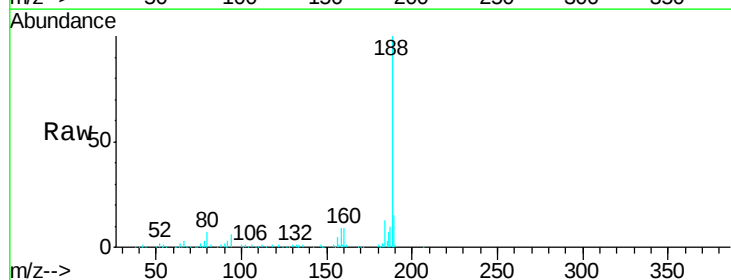


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

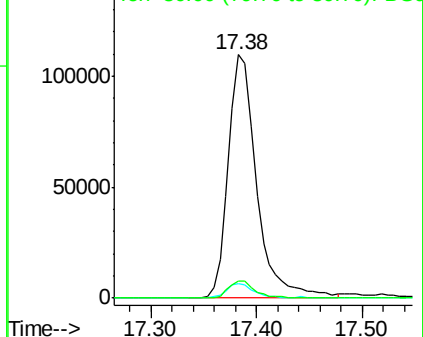
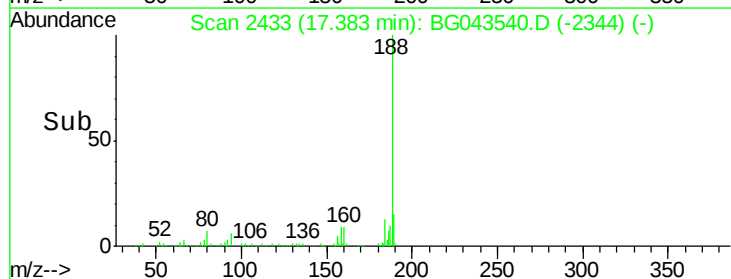


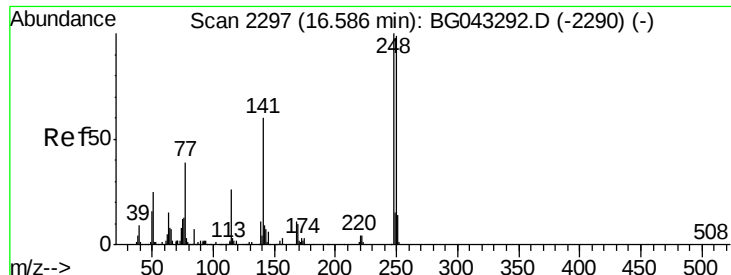
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.38 min Scan# 2433  
 Delta R.T. -0.01 min  
 Lab File: BG043540.D  
 Acq: 7 Nov 2019 15:38

Tgt Ion:188 Resp: 204791  
 Ion Ratio Lower Upper  
 188 100  
 94 5.7 4.2 6.4  
 80 6.8 4.5 6.7#



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

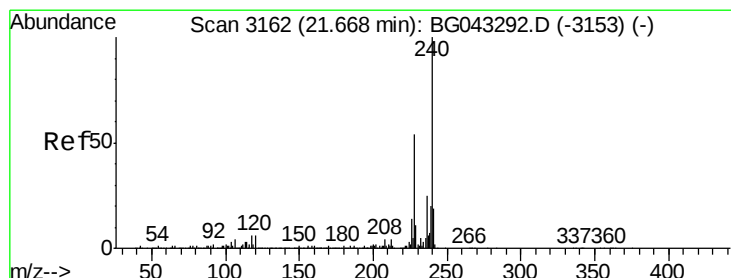
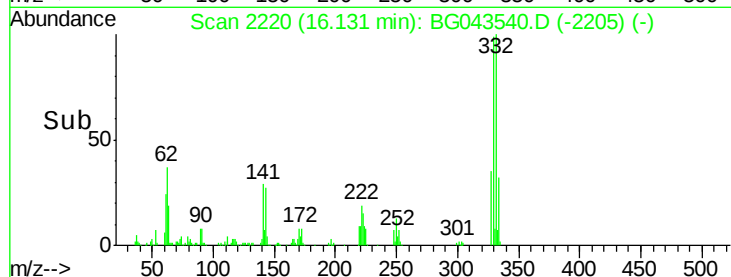
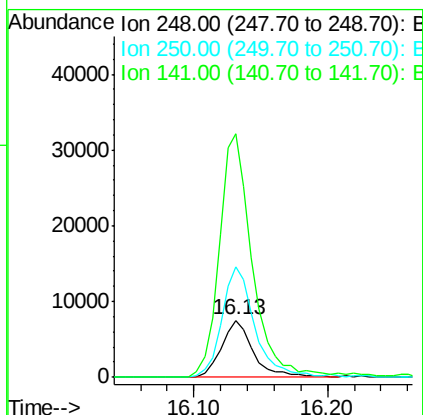
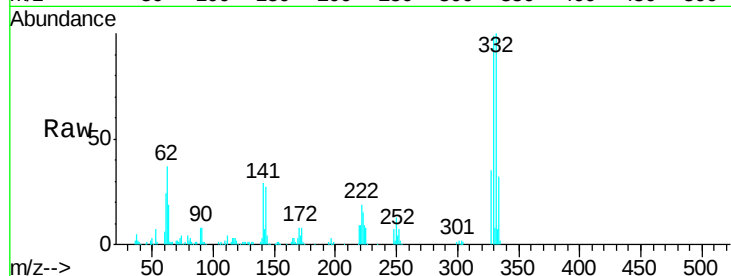




#67  
 4-Bromophenyl-phenylether  
 Concen: 4.564 ng  
 RT: 16.13 min Scan# 2220  
 Delta R.T. -0.44 min  
 Lab File: BG043540.D  
 Acq: 7 Nov 2019 15:38

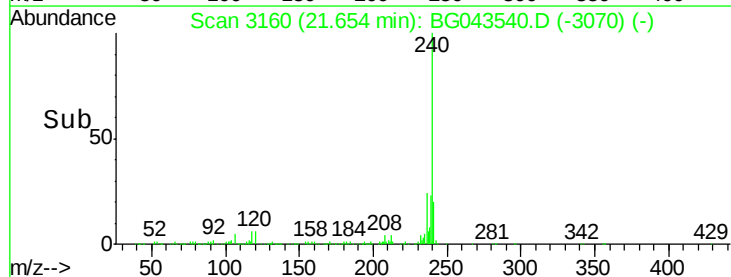
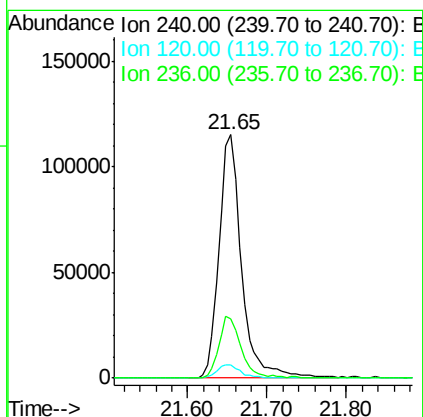
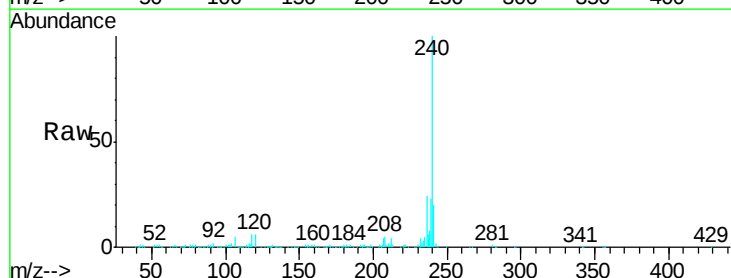
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124565BL

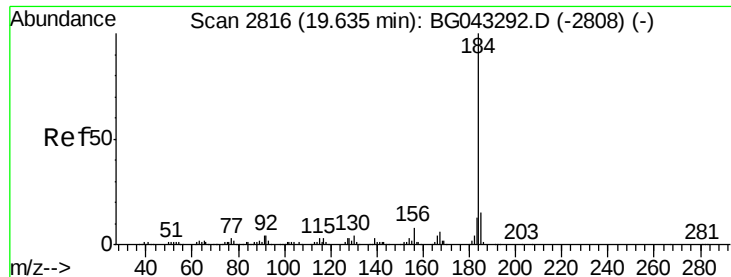
Tgt Ion:248 Resp: 12579  
 Ion Ratio Lower Upper  
 248 100  
 250 193.9 77.0 115.4#  
 141 426.1 47.5 71.3#



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.65 min Scan# 3160  
 Delta R.T. -0.00 min  
 Lab File: BG043540.D  
 Acq: 7 Nov 2019 15:38

Tgt Ion:240 Resp: 227092  
 Ion Ratio Lower Upper  
 240 100  
 120 5.6 4.6 6.8  
 236 24.4 19.8 29.8





#77

Benzidine

Concen: 3.526 ng

RT: 20.00 min Scan# 2878

Delta R.T. 0.37 min

Lab File: BG043540.D

Acq: 7 Nov 2019 15:38

Instrument :

BNA\_G

ClientSampleId :

PB124565BL

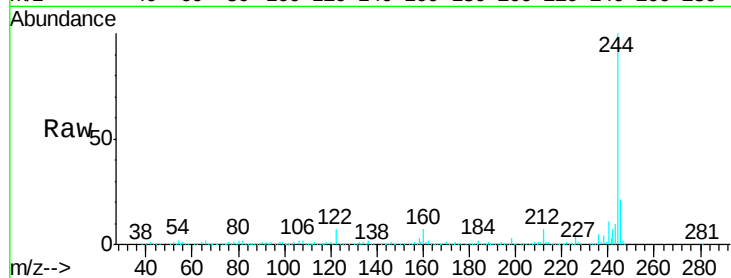
Tgt Ion:184 Resp: 16114

Ion Ratio Lower Upper

184 100

185 18.6 11.0 16.4#

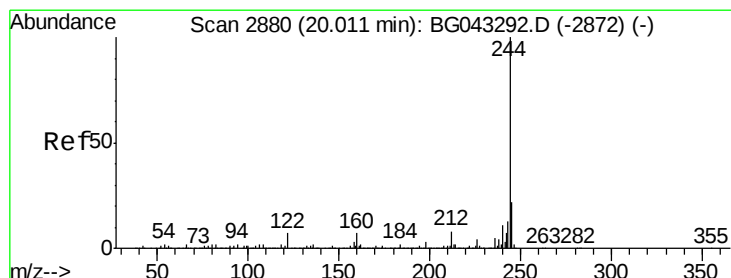
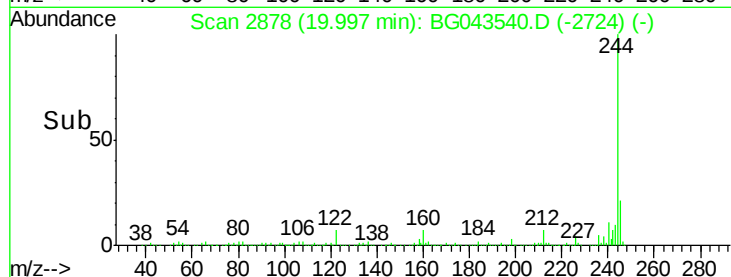
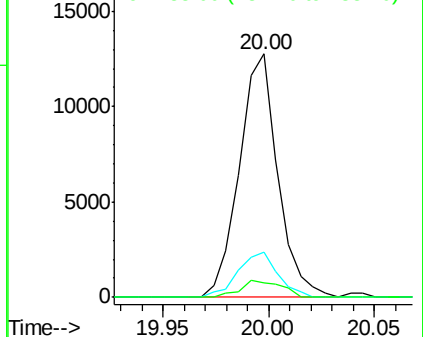
183 6.2 10.0 15.0#



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: 93.483 ng

RT: 20.00 min Scan# 2878

Delta R.T. -0.00 min

Lab File: BG043540.D

Acq: 7 Nov 2019 15:38

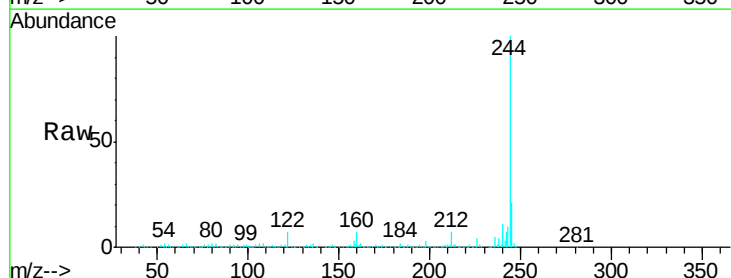
Tgt Ion:244 Resp: 1131588

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.6

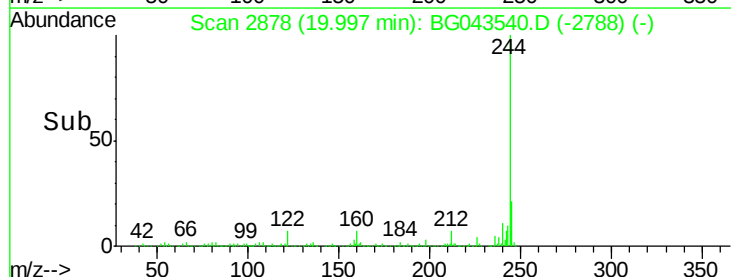
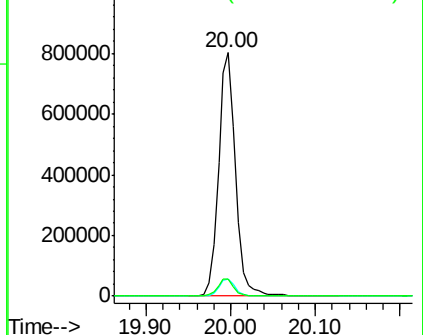
122 6.8 5.4 8.2

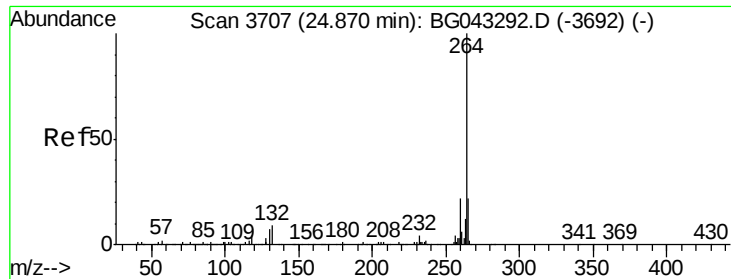


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.84 min Scan# 3703  
Delta R.T. -0.01 min  
Lab File: BG043540.D  
Acq: 7 Nov 2019 15:38

Instrument :  
BNA\_G  
ClientSampleId :  
PB124565BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 17.5  | 26.3  |
| 265     | 22.7  | 17.4  | 26.0  |

