

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100617\  
 Data File : BF099179.D  
 Acq On : 7 Oct 2017 6:35  
 Operator : SJ/JU  
 Sample : I5542-03  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

Quant Time: Oct 08 03:01:26 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 05 17:20:48 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 143016   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 574111   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 253233   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.39 | 188  | 384457   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.02 | 240  | 222751   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.50 | 264  | 248705   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.49  | 112  | 541563   | 60.28  | ng    | 0.00     |
| 7) Phenol-d6                | 6.49  | 99   | 410031   | 37.00  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 750913   | 83.88  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 234346   | 113.09 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 1357974  | 89.52  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.97 | 244  | 824839   | 84.21  | ng    | 0.00     |

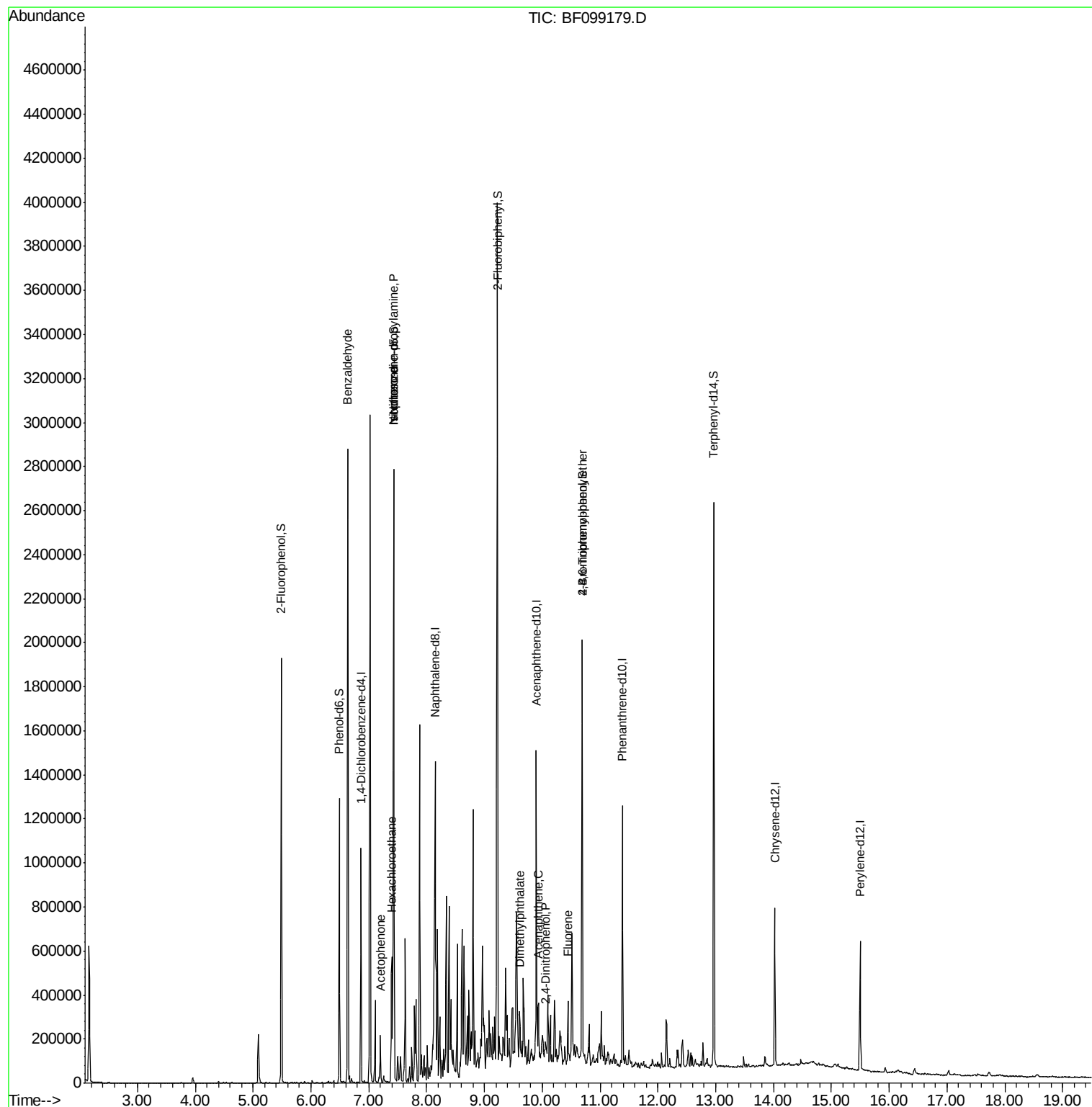
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.63  | 77   | 18159    | 2.825  | ng    | 84     |
| 18) Hexachloroethane           | 7.39  | 117  | 51231    | 13.148 | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 96507    | 13.639 | ng    | # 74   |
| 22) Acetophenone               | 7.20  | 105  | 39655    | 2.851  | ng    | # 70   |
| 25) Isophorone                 | 7.43  | 82   | 748078   | 40.417 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.61  | 163  | 67568    | 3.535  | ng    | 100    |
| 51) Acenaphthene               | 9.93  | 154  | 51175    | 3.230  | ng    | 99     |
| 53) 2,4-Dinitrophenol          | 10.05 | 184  | 648      | 6.105  | ng    | # 1    |
| 57) Fluorene                   | 10.44 | 166  | 68113    | 4.017  | ng    | 98     |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 15579    | 4.140  | ng    | # 1    |

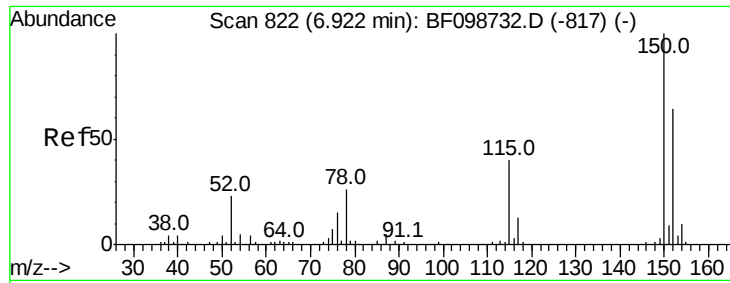
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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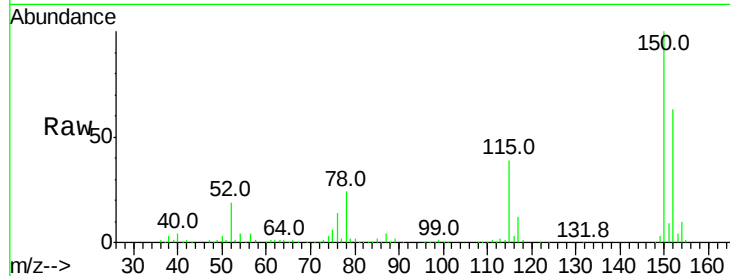


#1

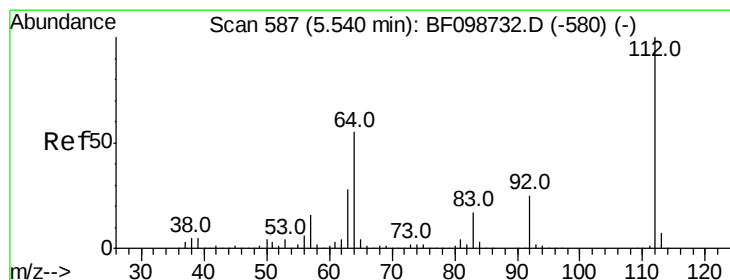
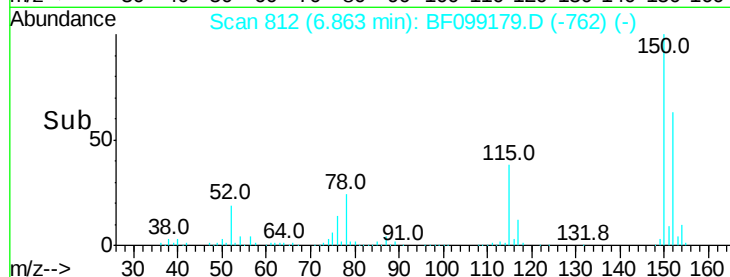
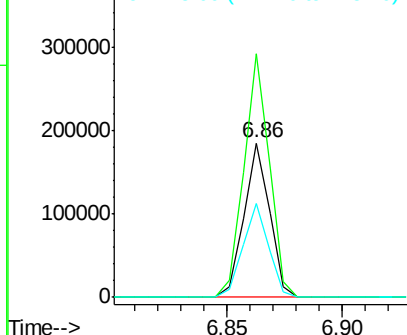
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF099179.D  
Acq: 7 Oct 2017 6:35

Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C4-GW

Tot Ion:152 Resp: 143016  
Ion Ratio Lower Upper  
152 100  
150 157.7 124.6 186.8  
115 61.0 50.1 75.1



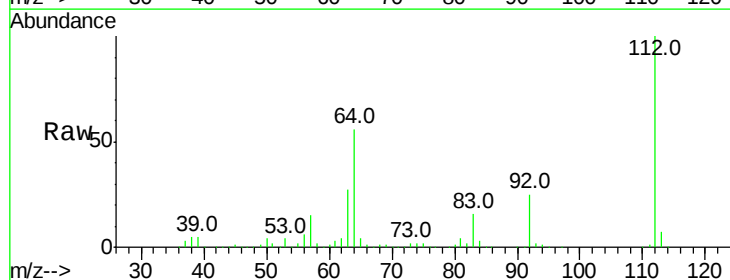
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



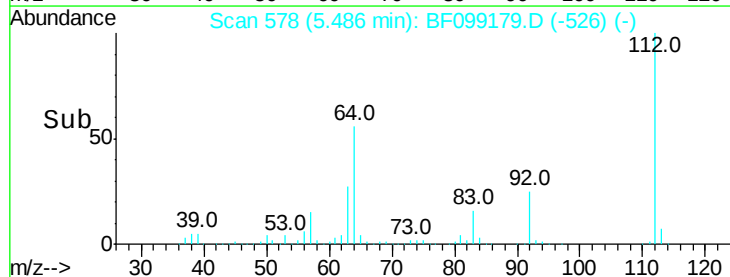
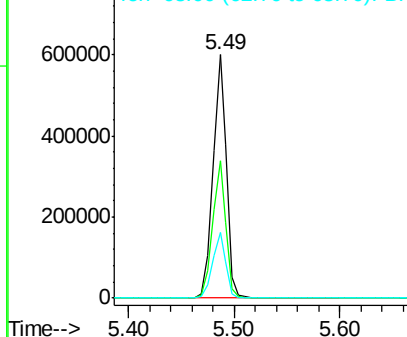
#5

2-Fluorophenol  
Concen: 60.281 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: BF099179.D  
Acq: 7 Oct 2017 6:35

Tgt Ion:112 Resp: 541563  
Ion Ratio Lower Upper  
112 100  
64 56.3 47.9 71.9  
63 27.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 36.997 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

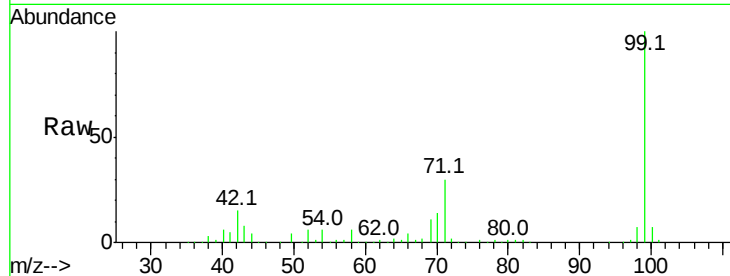
Tot Ion: 99 Resp: 410031

Ion Ratio Lower Upper

99 100

42 15.5 14.5 21.7

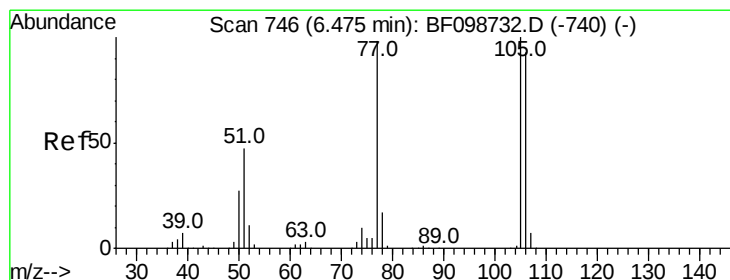
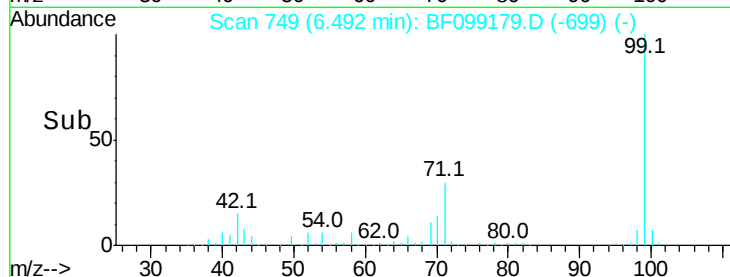
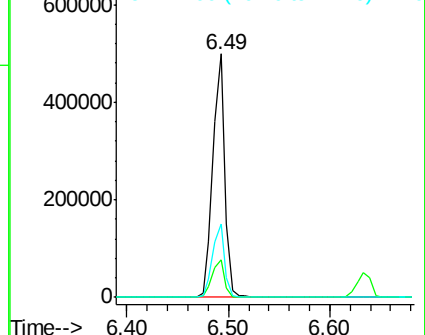
71 30.2 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 2.825 ng

RT: 6.63 min Scan# 773

Delta R.T. 0.21 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

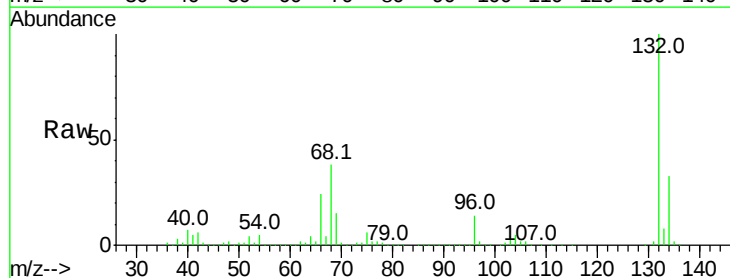
Tgt Ion: 77 Resp: 18159

Ion Ratio Lower Upper

77 100

105 83.9 81.1 121.1

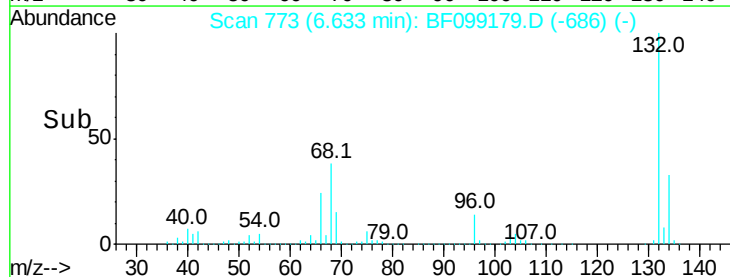
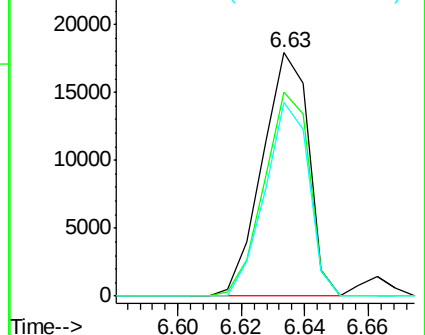
106 79.6 74.5 114.5

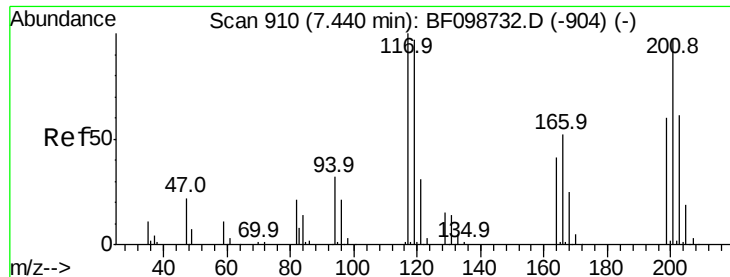


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#18

Hexachloroethane

Concen: 13.148 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.01 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

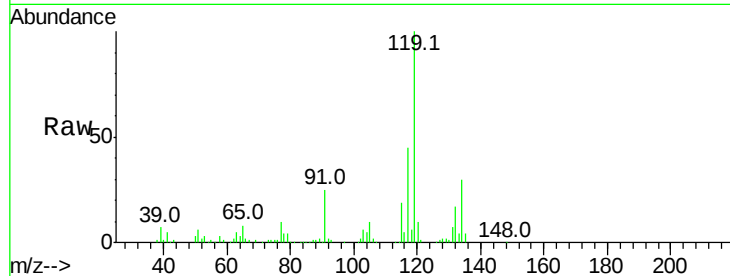
Tot Ion:117 Resp: 51231

Ion Ratio Lower Upper

117 100

119 221.6 75.8 113.8#

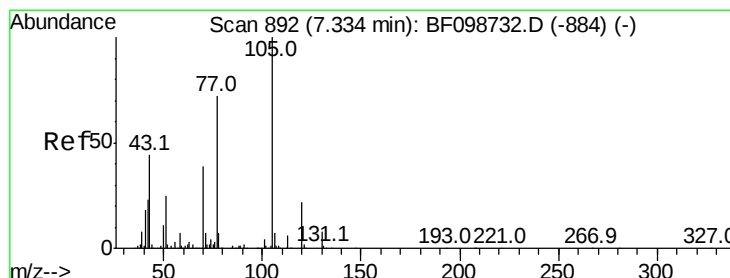
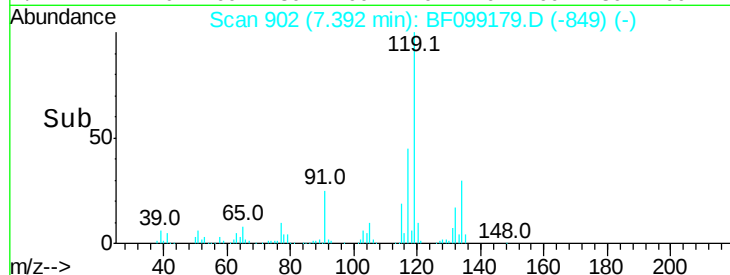
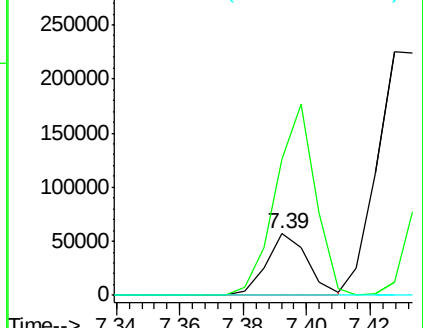
201 0.0 75.7 113.5#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E



#19

n-Nitroso-di-n-propylamine

Concen: 13.639 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.15 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

Tgt Ion: 70 Resp: 96507

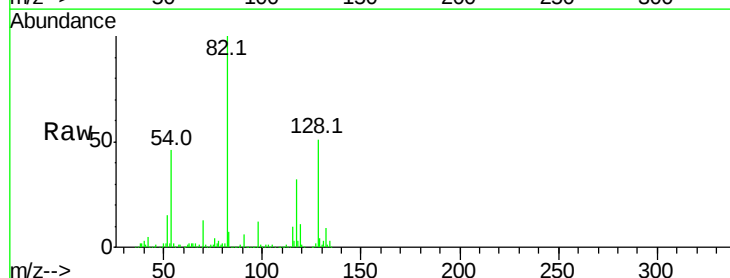
Ion Ratio Lower Upper

70 100

42 41.6 47.5 71.3#

101 1.2 7.4 11.2#

130 4.4 16.6 25.0#

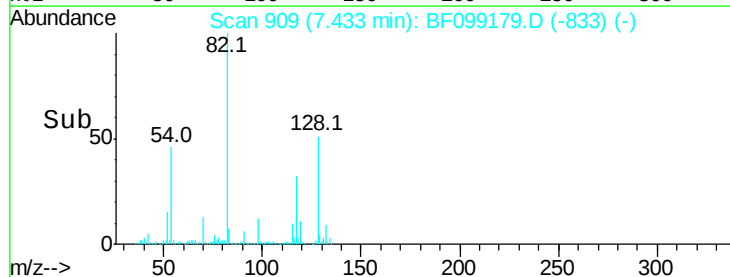
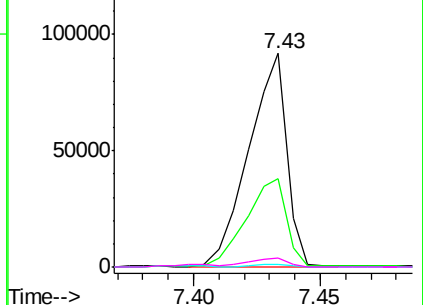


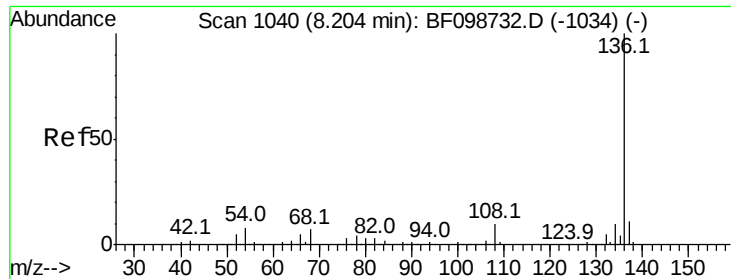
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

Tot Ion:136 Resp: 574111

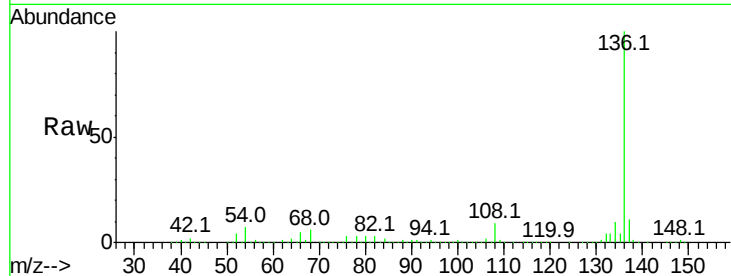
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 7.5 6.6 9.8

68 5.9 5.0 7.4

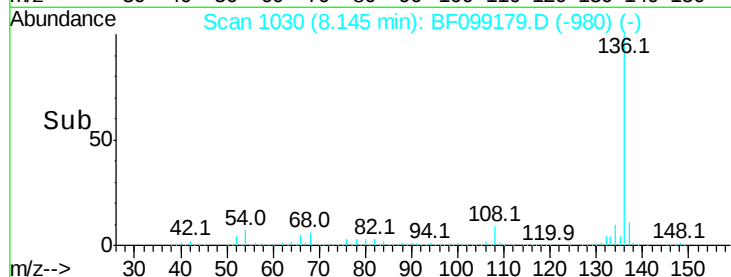


Abundance Ion 136.00 (135.70 to 136.70): E

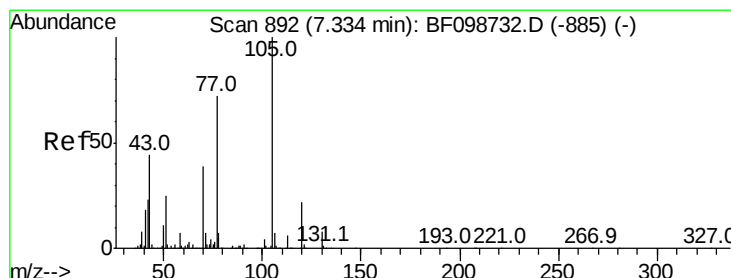
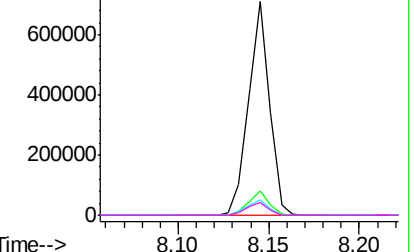
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#22

Acetophenone

Concen: 2.851 ng

RT: 7.20 min Scan# 869

Delta R.T. -0.08 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

Tgt Ion:105 Resp: 39655

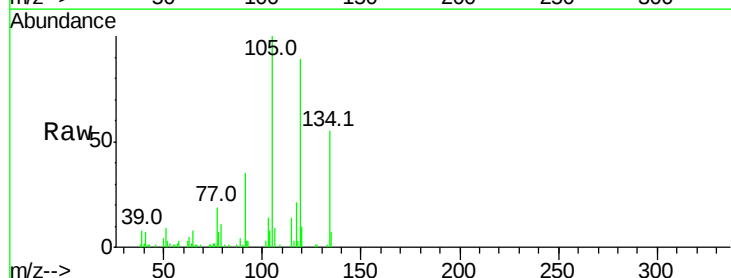
Ion Ratio Lower Upper

105 100

71 0.0 4.4 6.6#

51 8.8 22.3 33.5#

120 9.5 16.9 25.3#

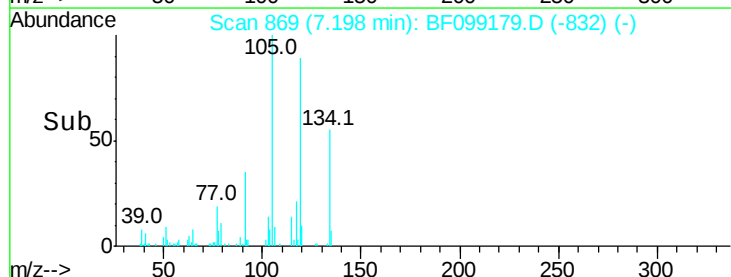


Abundance Ion 105.00 (104.70 to 105.70): E

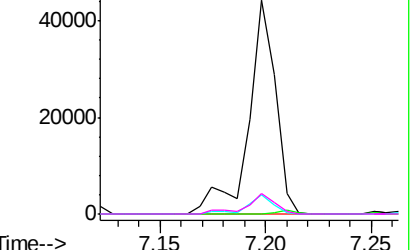
Ion 71.00 (70.70 to 71.70): BF0

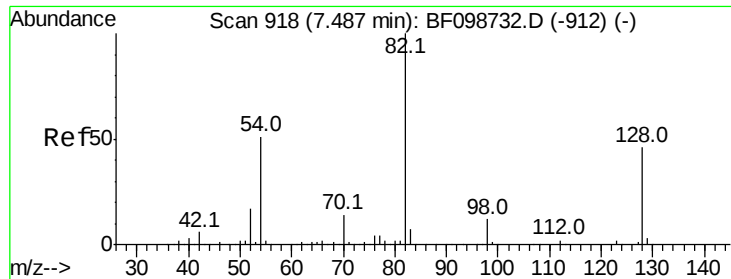
Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E



Time-->

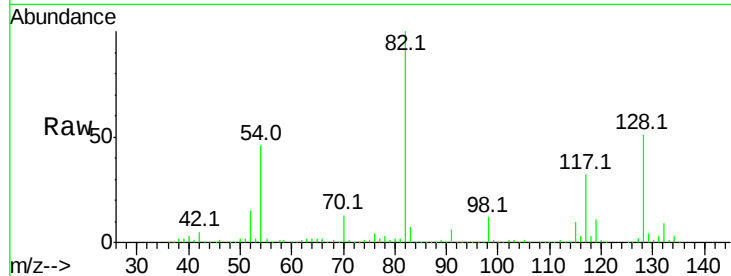




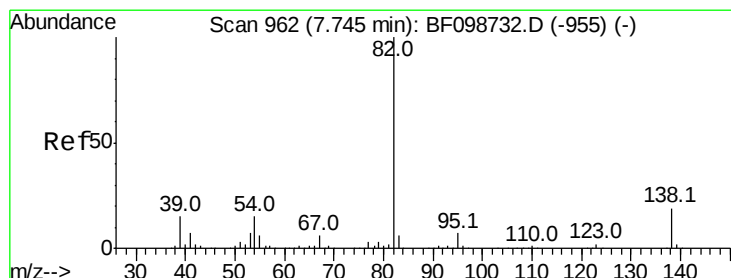
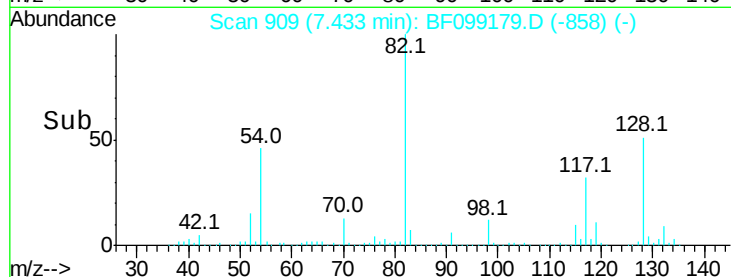
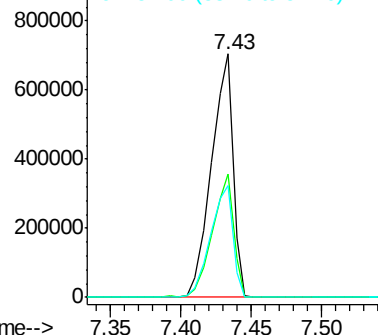
#23  
Nitrobenzene-d5  
Concen: 83.880 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.00 min  
Lab File: BF099179.D  
Acq: 7 Oct 2017 6:35

Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C4-GW

| Tot Ion   | 82    | Resp  | 750913 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 50.8  | 36.1  | 54.1   |
| 54        | 45.8  | 41.4  | 62.2   |

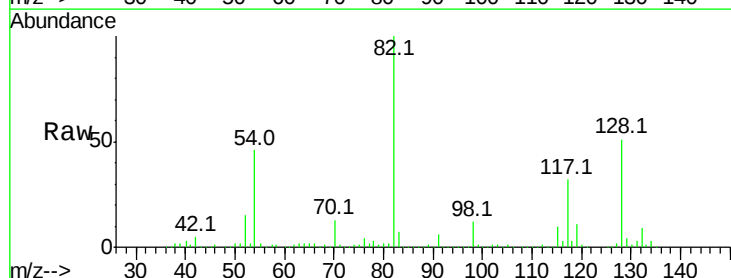


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0

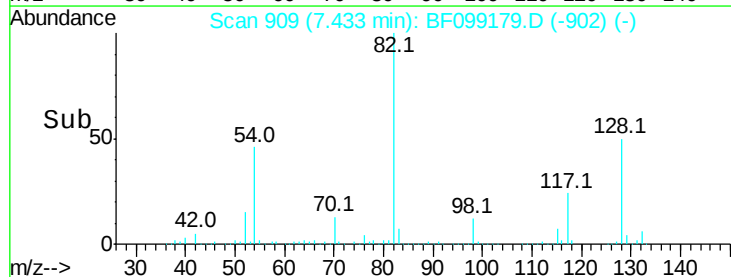
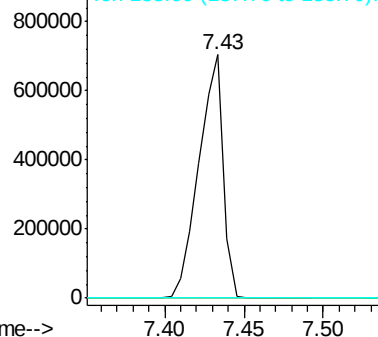


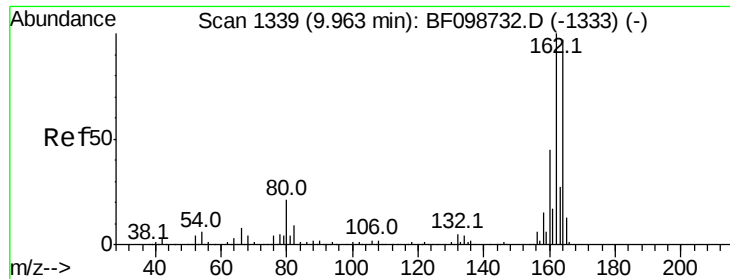
#25  
Isophorone  
Concen: 40.417 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.26 min  
Lab File: BF099179.D  
Acq: 7 Oct 2017 6:35

| Tgt Ion   | 82    | Resp  | 748078 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.1   | 5.2   | 7.8#   |
| 138       | 0.0   | 14.9  | 22.3#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0

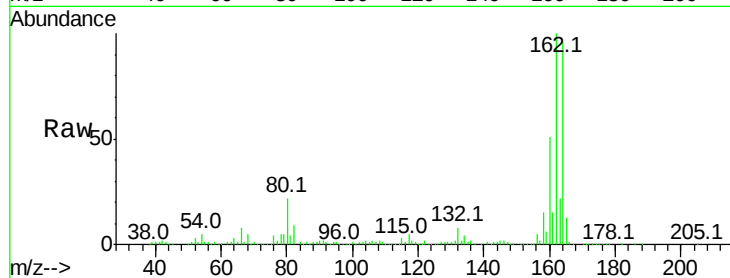




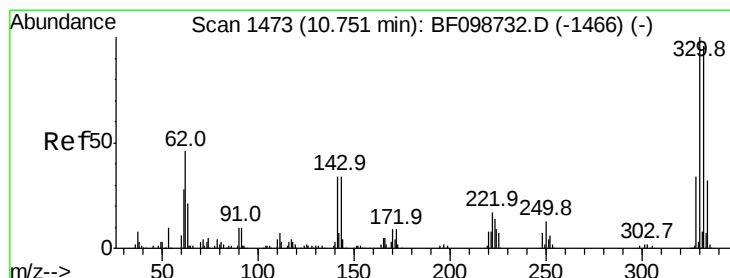
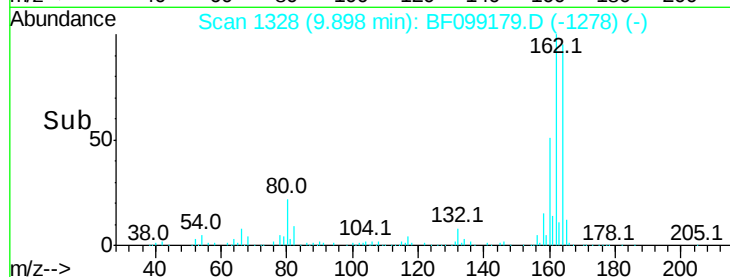
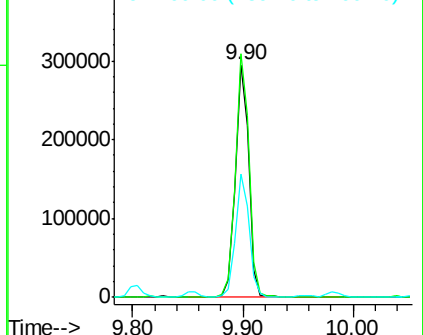
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.01 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

Tot Ion:164 Resp: 253233  
 Ion Ratio Lower Upper  
 164 100  
 162 104.6 86.1 129.1  
 160 52.9 38.3 57.5

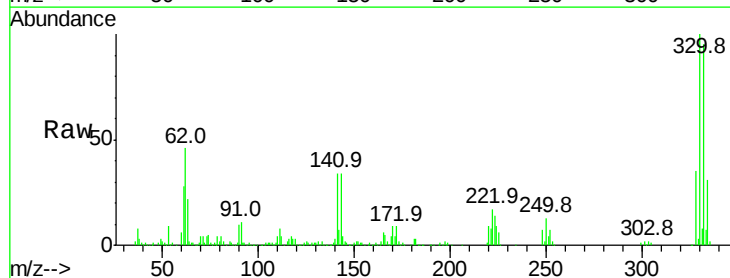


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

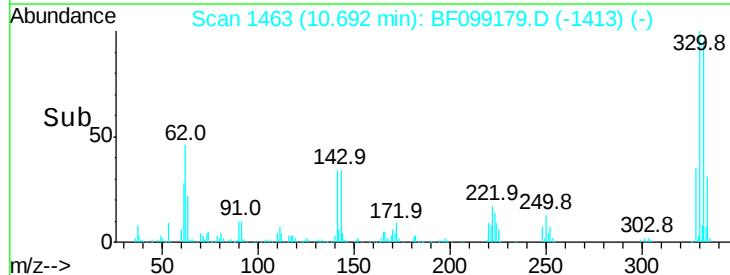
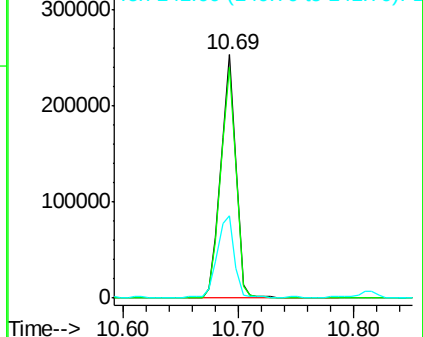


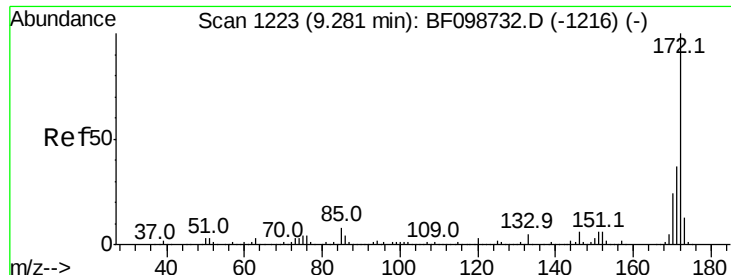
#41  
 2,4,6-Tribromophenol  
 Concen: 113.094 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

Tgt Ion:330 Resp: 234346  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 77.0 115.6  
 141 37.9 29.9 44.9



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



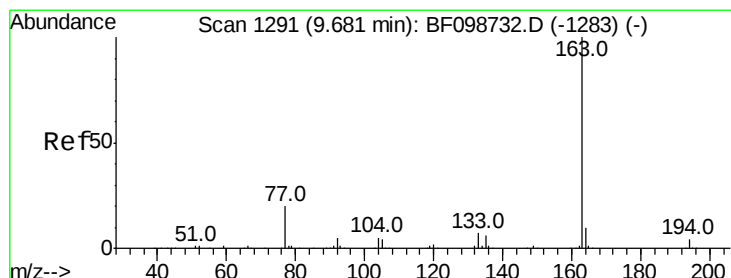
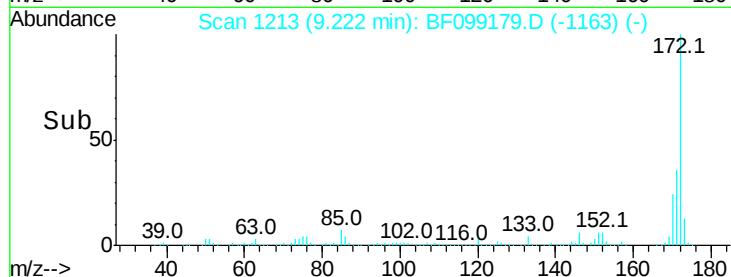
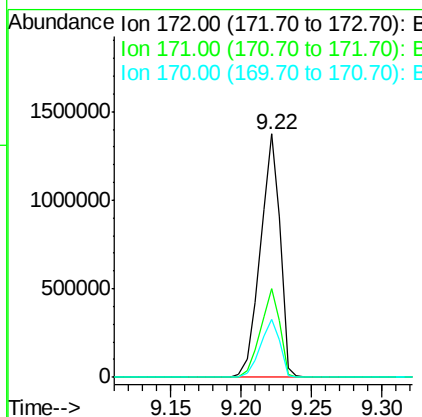
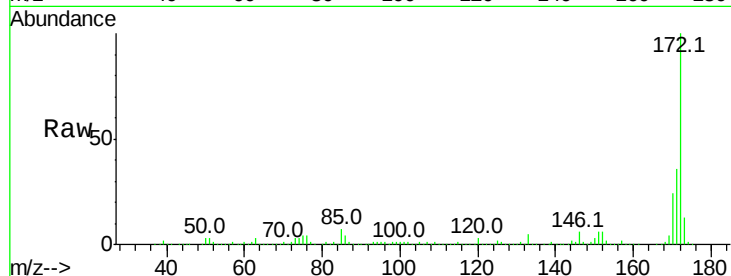


#44  
 2-Fluorobiphenyl  
 Concen: 89.523 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.01 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

Tot Ion:172 Resp: 1357974

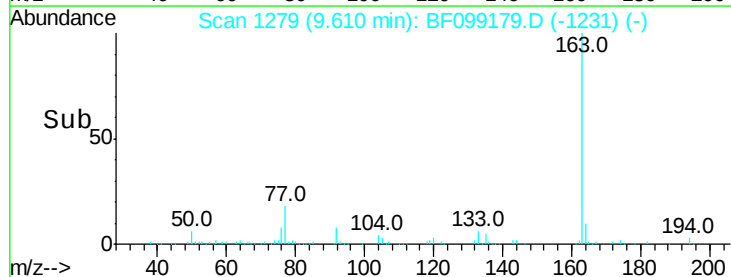
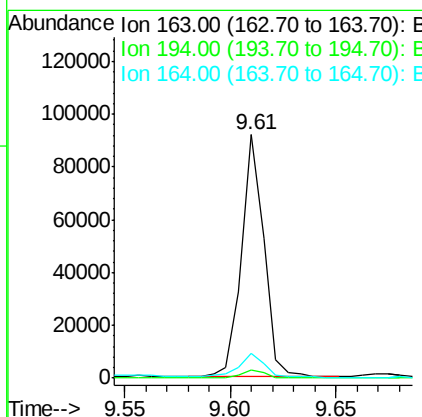
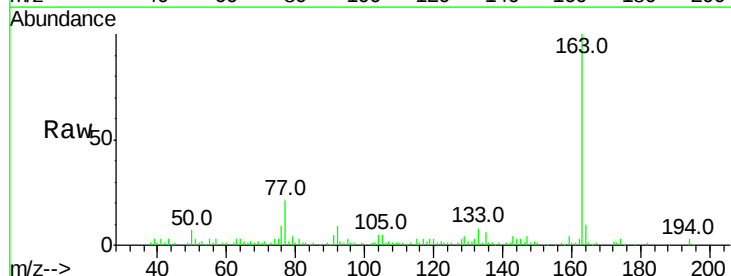
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.4  | 29.7  | 44.5  |
| 170 | 23.9  | 19.6  | 29.4  |

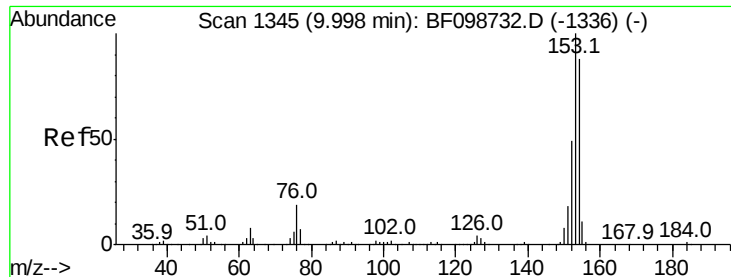


#49  
 Dimethylphthalate  
 Concen: 3.535 ng  
 RT: 9.61 min Scan# 1279  
 Delta R.T. -0.02 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

Tgt Ion:163 Resp: 67568

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 3.4   | 2.7   | 4.1   |
| 164 | 10.2  | 8.2   | 12.2  |





#51

Acenaphthene

Concen: 3.230 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

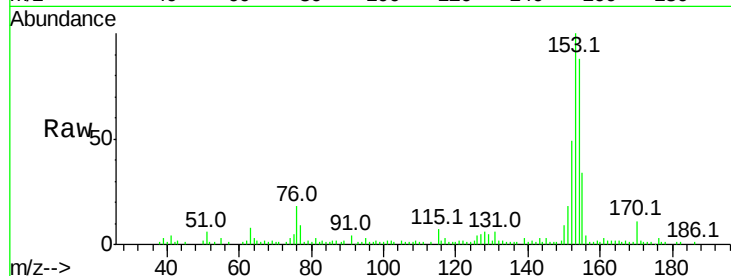
Tot Ion:154 Resp: 51175

Ion Ratio Lower Upper

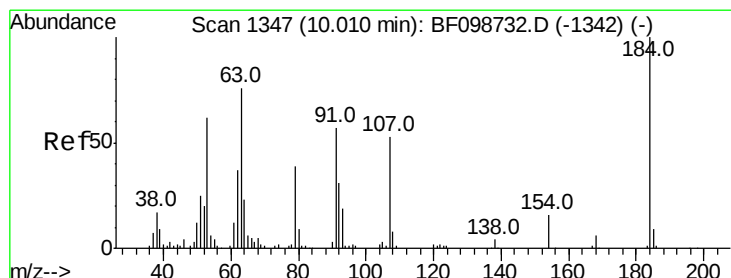
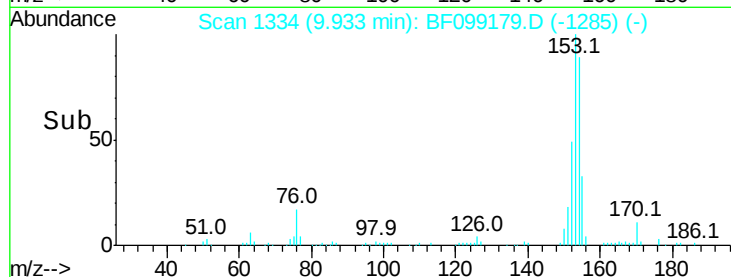
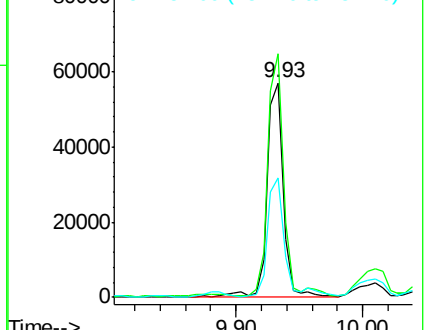
154 100

153 113.6 91.2 136.8

152 55.5 43.8 65.8



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



#53

2,4-Dinitrophenol

Concen: 6.105 ng

RT: 10.05 min Scan# 1353

Delta R.T. 0.08 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

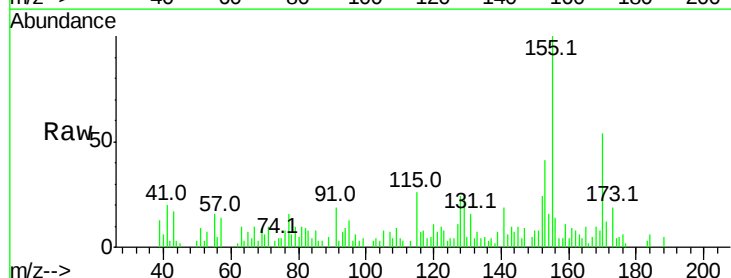
Tgt Ion:184 Resp: 648

Ion Ratio Lower Upper

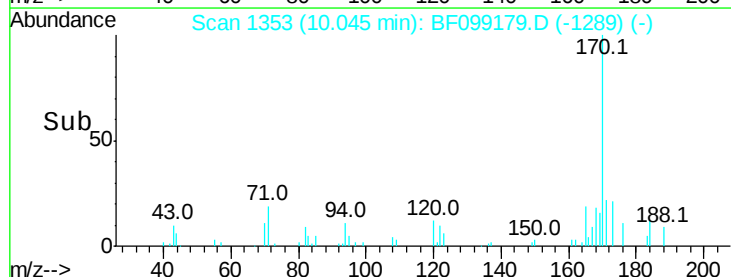
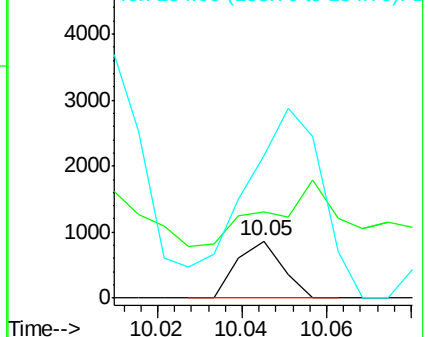
184 100

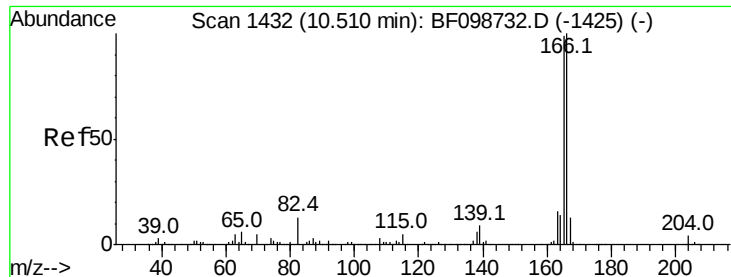
63 150.9 54.2 81.2#

154 251.0 53.5 80.3#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 154.00 (153.70 to 154.70): E

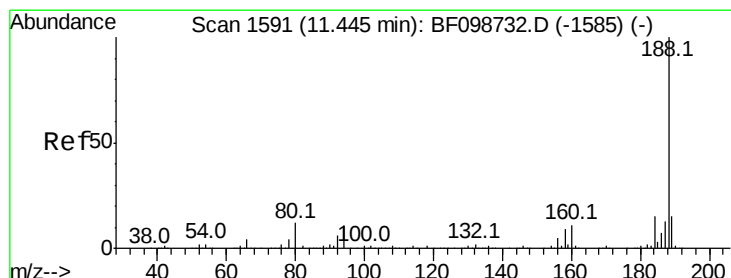
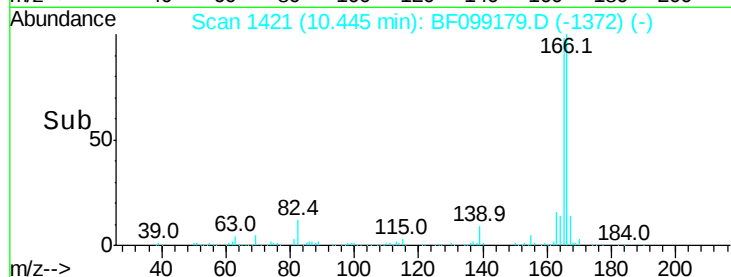
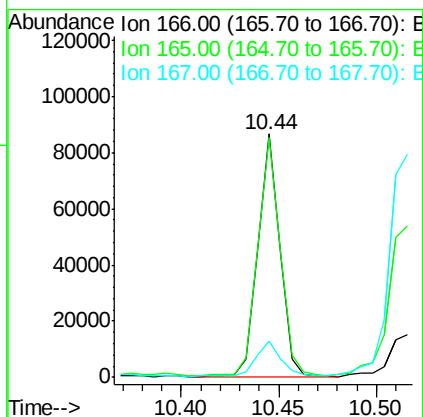
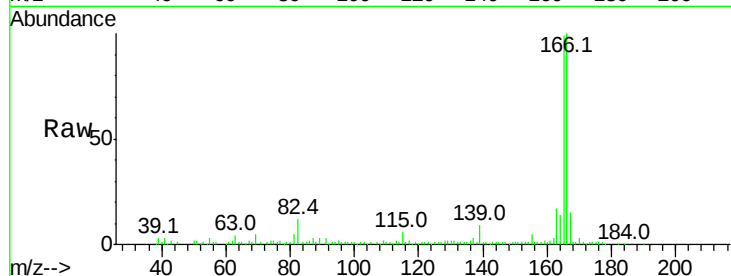




#57  
 Fluorene  
 Concen: 4.017 ng  
 RT: 10.44 min Scan# 1421  
 Delta R.T. -0.01 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

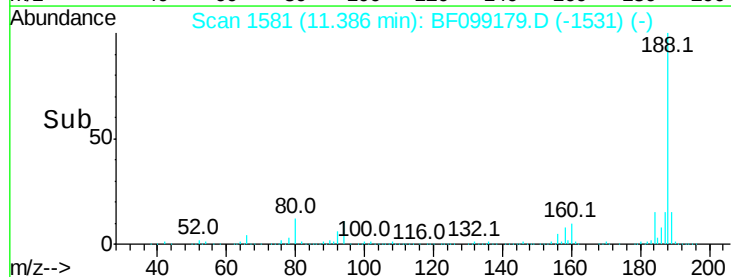
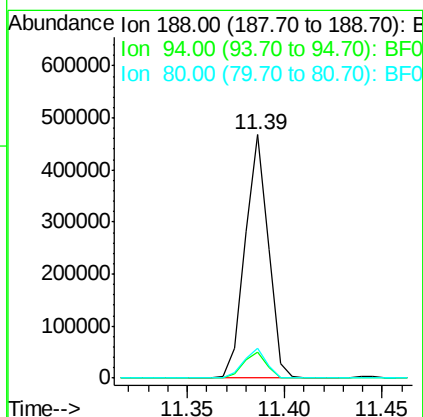
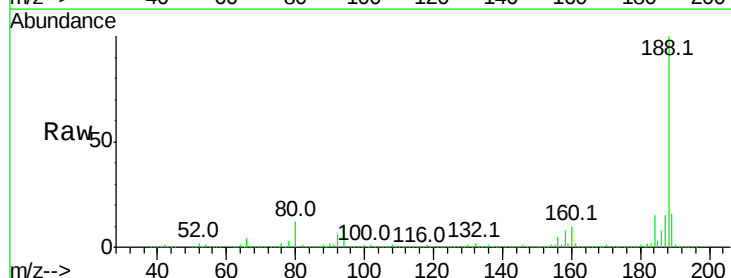
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

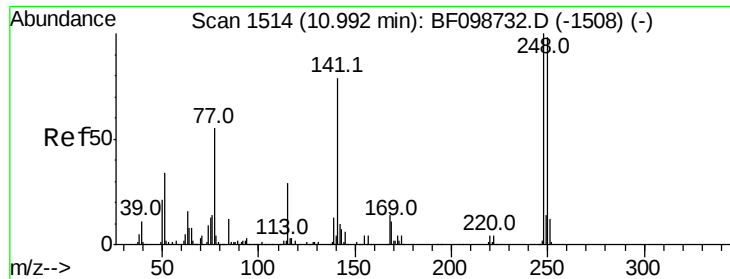
Tot Ion:166 Resp: 68113  
 Ion Ratio Lower Upper  
 166 100  
 165 98.6 79.8 119.8  
 167 14.8 10.6 16.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

Tgt Ion:188 Resp: 384457  
 Ion Ratio Lower Upper  
 188 100  
 94 10.7 8.5 12.7  
 80 12.1 9.2 13.8

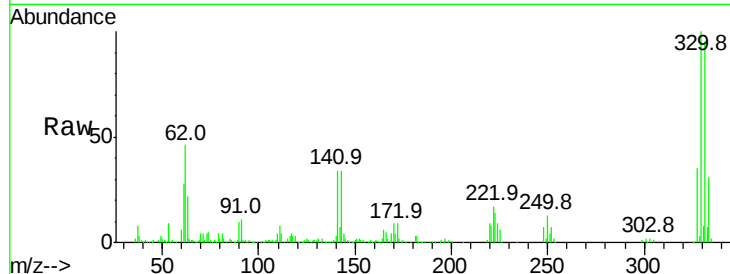




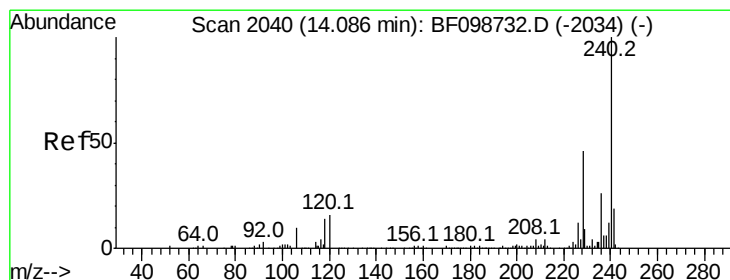
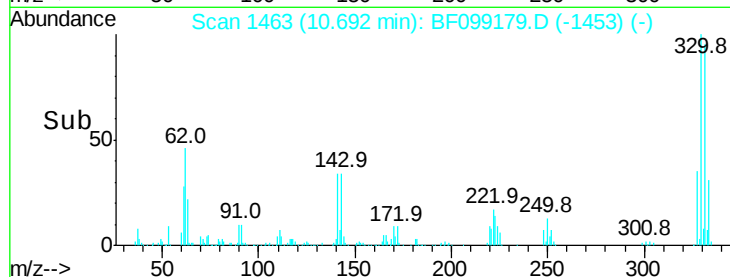
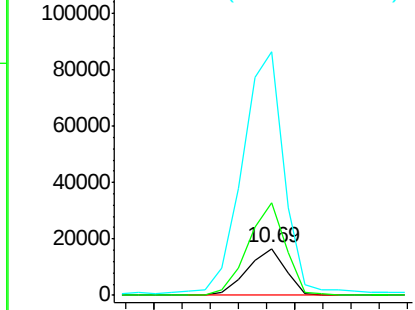
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.140 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.24 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

Tot Ion:248 Resp: 15579  
 Ion Ratio Lower Upper  
 248 100  
 250 196.9 76.9 115.3#  
 141 520.2 74.4 111.6#

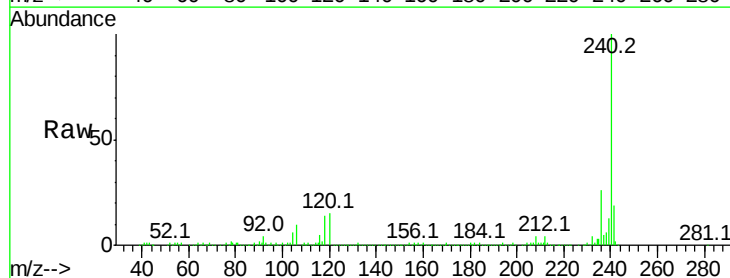


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

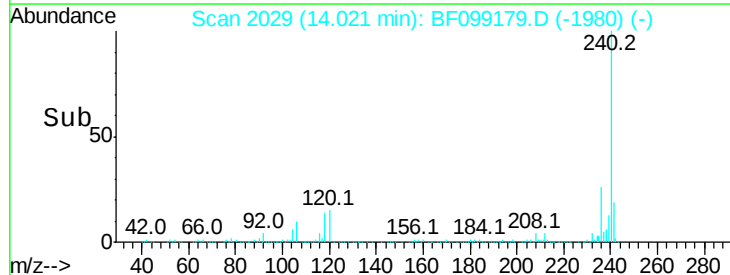
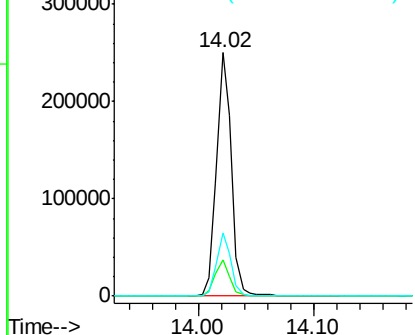


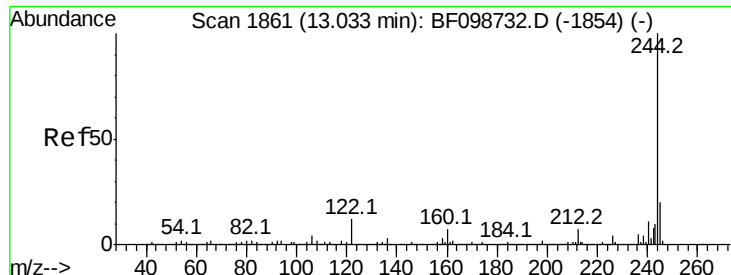
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF099179.D  
 Acq: 7 Oct 2017 6:35

Tgt Ion:240 Resp: 222751  
 Ion Ratio Lower Upper  
 240 100  
 120 14.8 9.5 14.3#  
 236 26.0 20.7 31.1



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

Terphenyl-d14

Concen: 84.213 ng

RT: 12.97 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

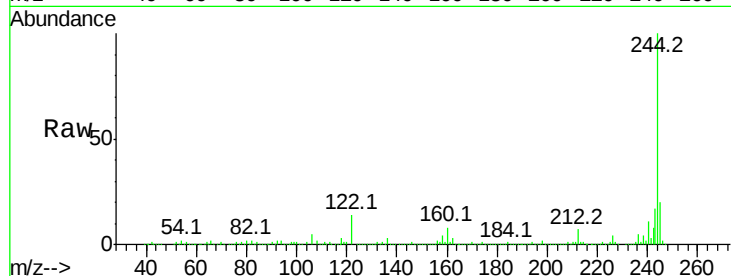
Tot Ion:244 Resp: 824839

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

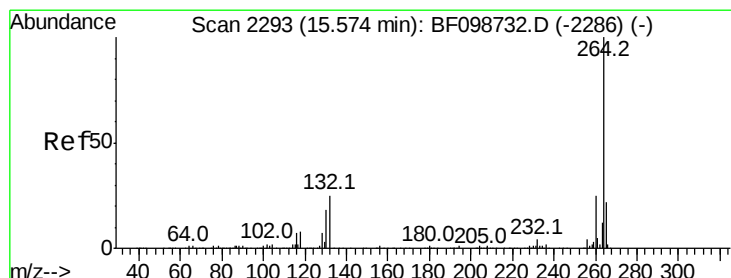
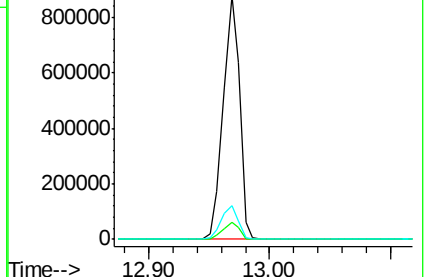
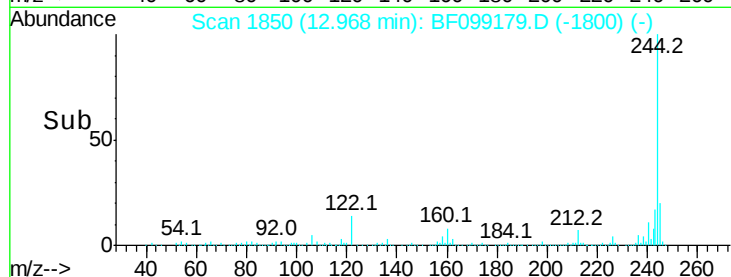
122 13.9 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF099179.D

Acq: 7 Oct 2017 6:35

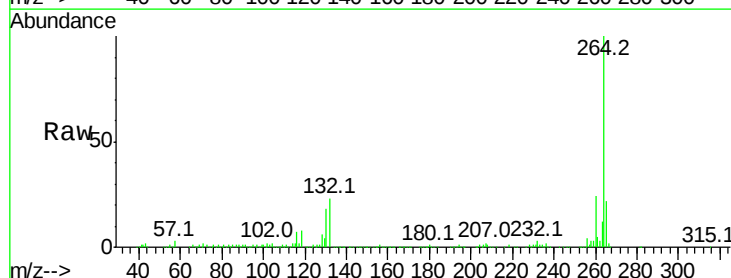
Tgt Ion:264 Resp: 248705

Ion Ratio Lower Upper

264 100

260 24.0 19.2 28.8

265 21.5 17.5 26.3



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

