

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF120617\  
 Data File : BF101195.D  
 Acq On : 7 Dec 2017 4:32  
 Operator : SJ/JU  
 Sample : I6656-08  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-1-E(0-1)

Quant Time: Dec 07 05:46:57 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 04 13:07:49 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 48947    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 173839   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.89  | 164  | 67676    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.37 | 188  | 113592   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.02 | 240  | 109332   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.50 | 264  | 85111    | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.47  | 112  | 315656   | 106.57 | ng    | 0.00     |
| 7) Phenol-d6                | 6.49  | 99   | 370706   | 103.08 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 217585   | 74.66  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.68 | 330  | 73137    | 89.96  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 440860   | 89.13  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.96 | 244  | 356976   | 71.42  | ng    | 0.00     |

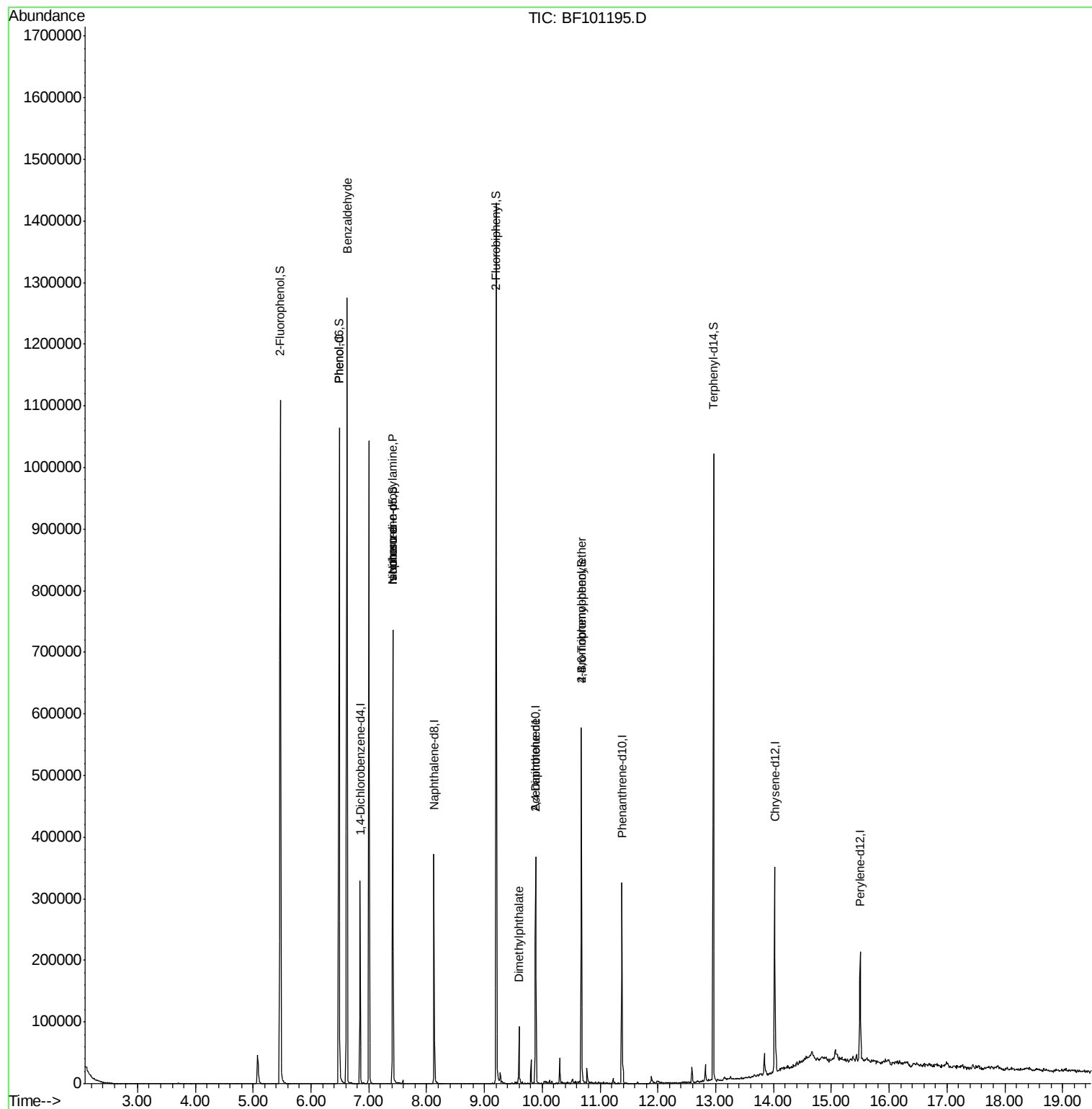
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.62  | 77   | 6667     | 3.029  | ng    | 89     |
| 10) Phenol                     | 6.49  | 94   | 10030    | 2.508  | ng    | # 63   |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 28900    | 11.933 | ng    | # 81   |
| 25) Isophorone                 | 7.42  | 82   | 217582   | 43.711 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.60  | 163  | 37569    | 6.883  | ng    | # 99   |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 8952     | 5.811  | ng    | # 21   |
| 66) 4-Bromophenyl-phenylether  | 10.67 | 248  | 4409     | 3.468  | ng    | # 1    |

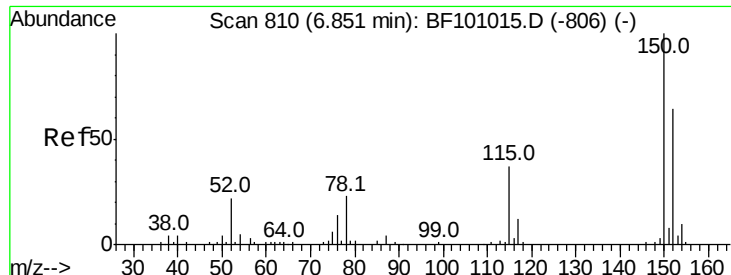
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.85 min Scan# 809

Delta R.T. 0.00 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Instrument :

BNA\_F

ClientSampleId :

BART-1-E(0-1)

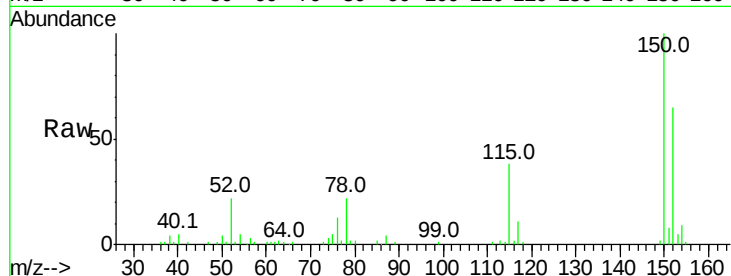
Tot Ion:152 Resp: 48947

Ion Ratio Lower Upper

152 100

150 153.8 124.6 186.8

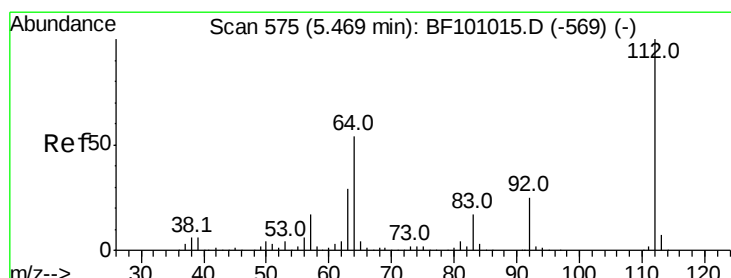
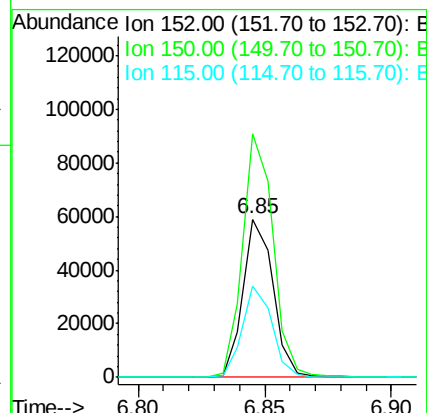
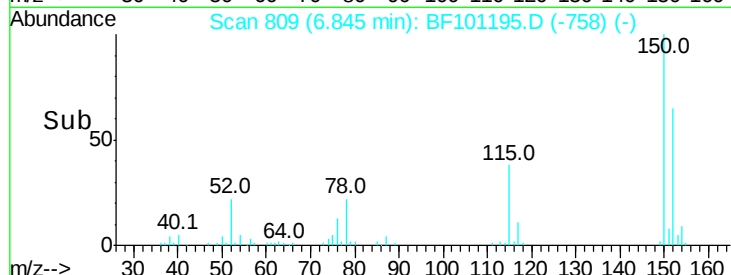
115 57.8 50.1 75.1



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: 106.565 ng

RT: 5.47 min Scan# 575

Delta R.T. 0.01 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

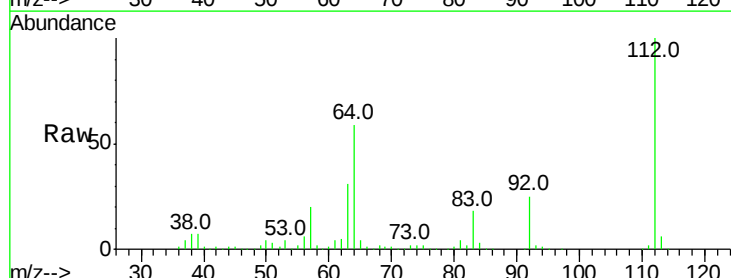
Tgt Ion:112 Resp: 315656

Ion Ratio Lower Upper

112 100

64 59.5 47.9 71.9

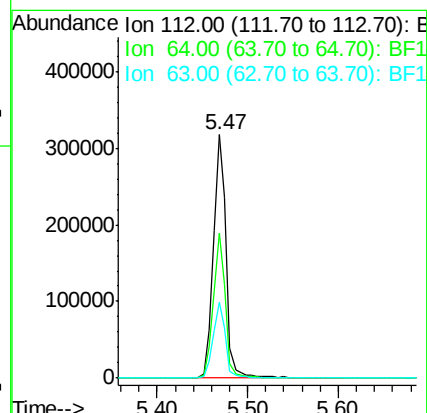
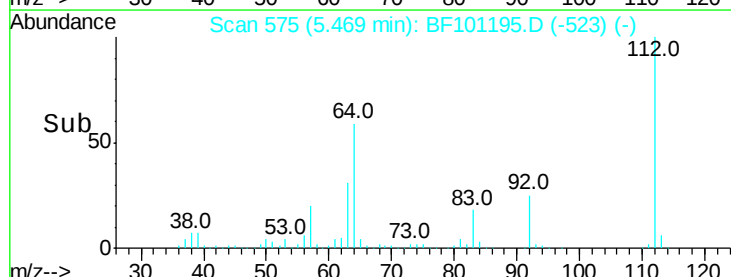
63 31.0 23.7 35.5

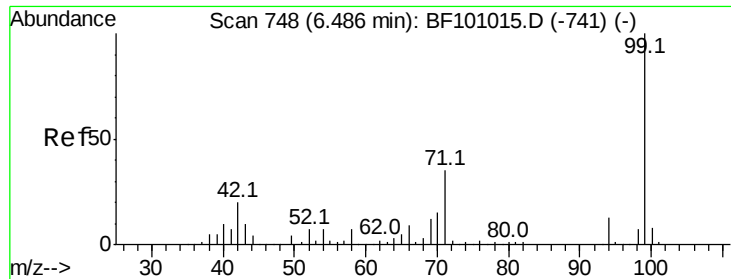


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 103.081 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.01 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Instrument :

BNA\_F

ClientSampleId :

BART-1-E(0-1)

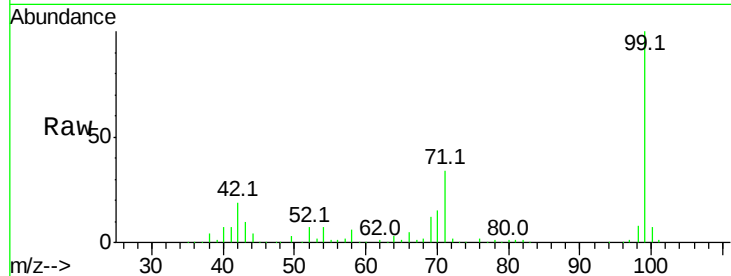
Tot Ion: 99 Resp: 370706

Ion Ratio Lower Upper

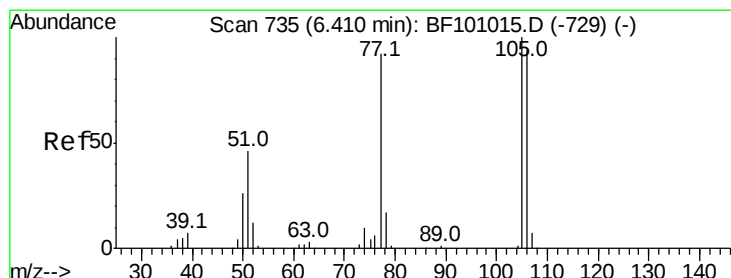
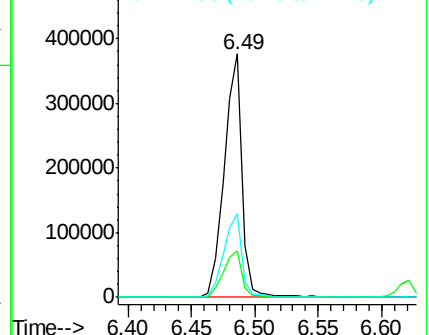
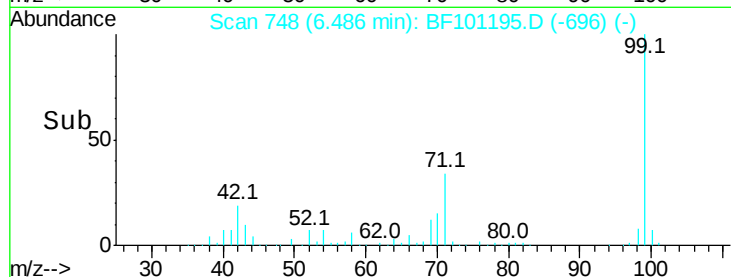
99 100

42 19.2 14.5 21.7

71 34.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: 3.029 ng

RT: 6.62 min Scan# 771

Delta R.T. 0.22 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

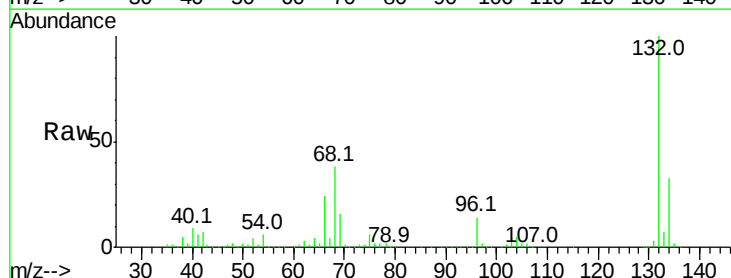
Tgt Ion: 77 Resp: 6667

Ion Ratio Lower Upper

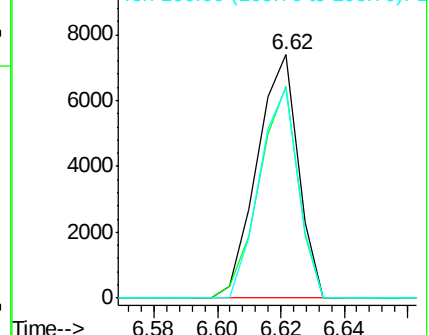
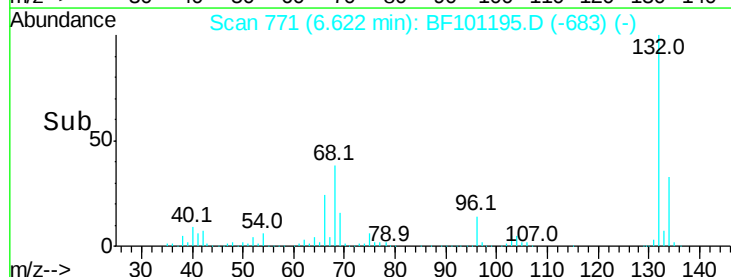
77 100

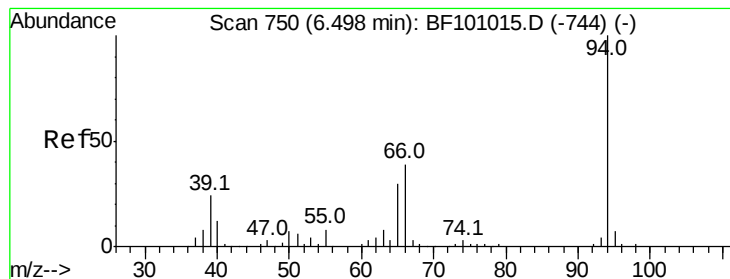
105 87.0 81.1 121.1

106 86.4 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 2.508 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Instrument :

BNA\_F

ClientSampleId :

BART-1-E(0-1)

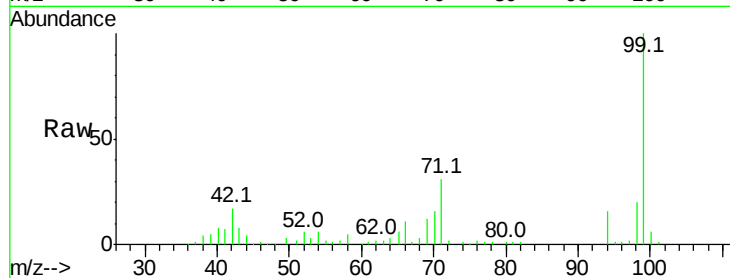
Tot Ion: 94 Resp: 10030

Ion Ratio Lower Upper

94 100

65 35.8 7.9 47.9

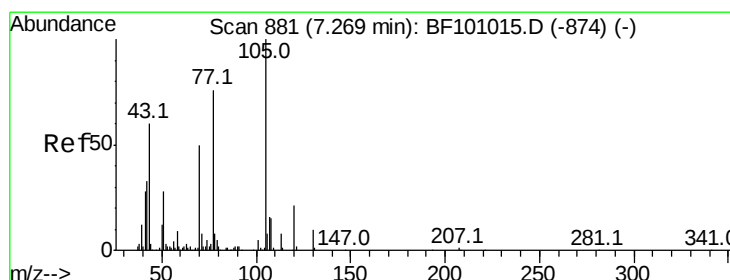
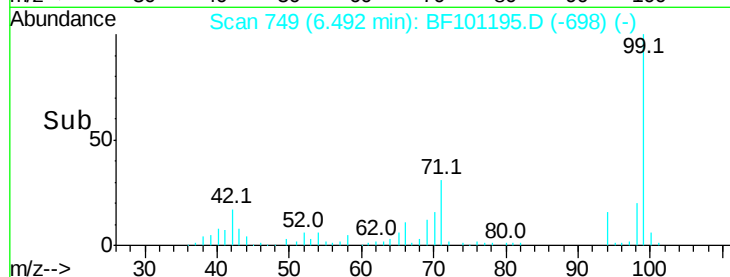
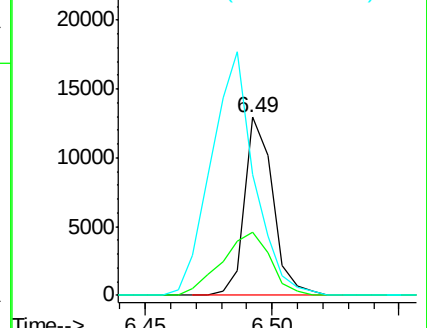
66 68.1 16.2 56.2#



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.933 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.15 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Tgt Ion: 70 Resp: 28900

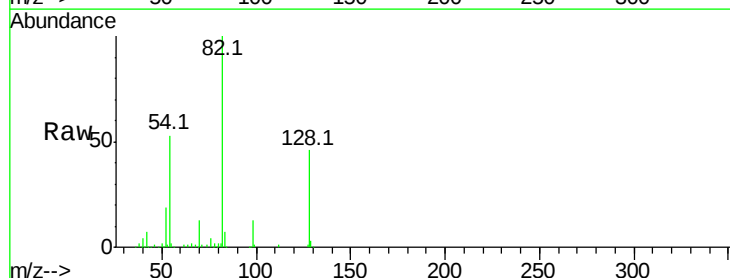
Ion Ratio Lower Upper

70 100

42 51.8 47.5 71.3

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#

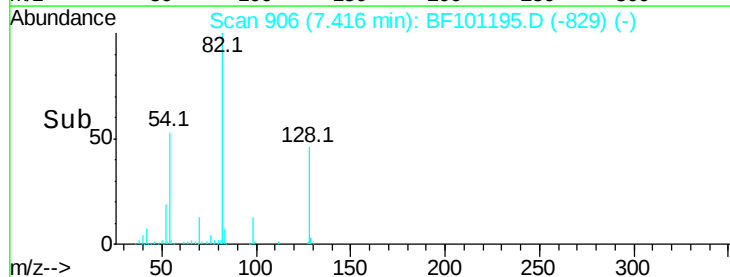
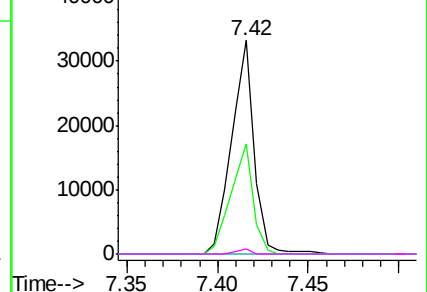


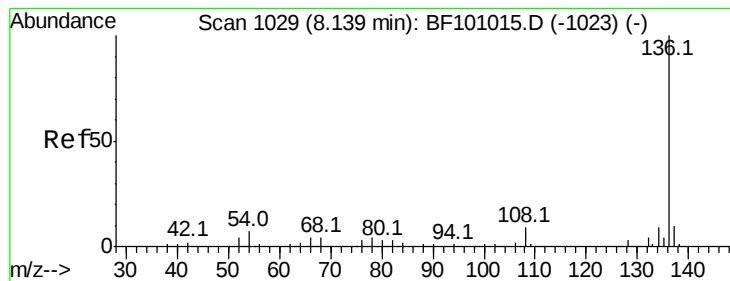
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Instrument :

BNA\_F

ClientSampleId :

BART-1-E(0-1)

Tot Ion:136 Resp: 173839

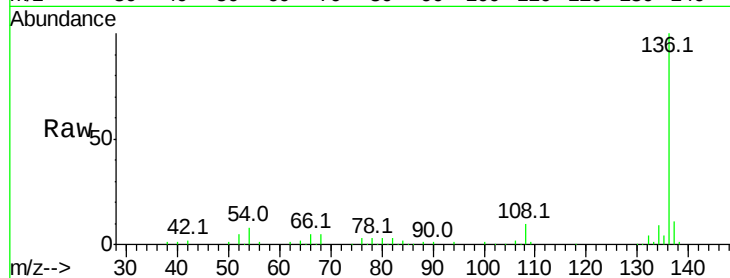
Ion Ratio Lower Upper

136 100

137 10.6 8.9 13.3

54 7.7 6.6 9.8

68 5.1 5.0 7.4

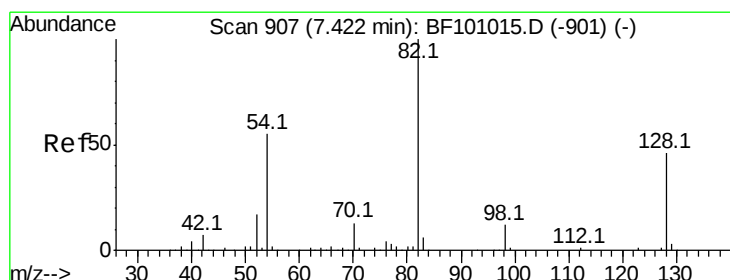
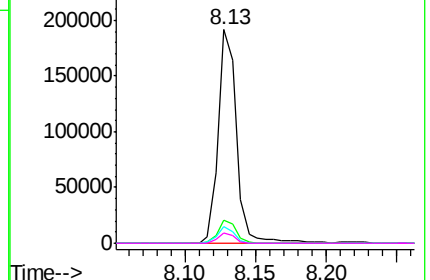
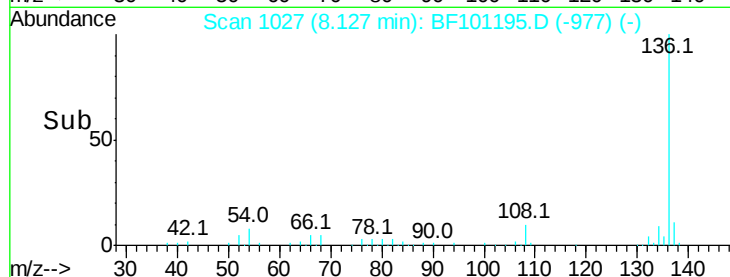


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 74.665 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.00 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

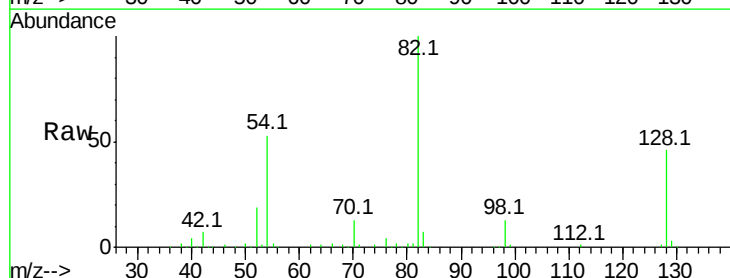
Tgt Ion: 82 Resp: 217585

Ion Ratio Lower Upper

82 100

128 46.3 36.1 54.1

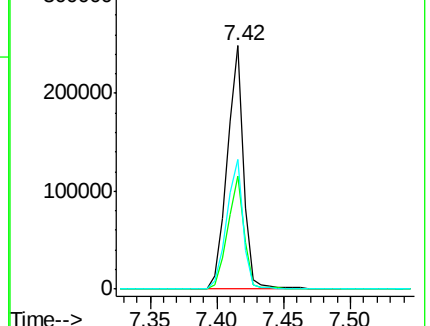
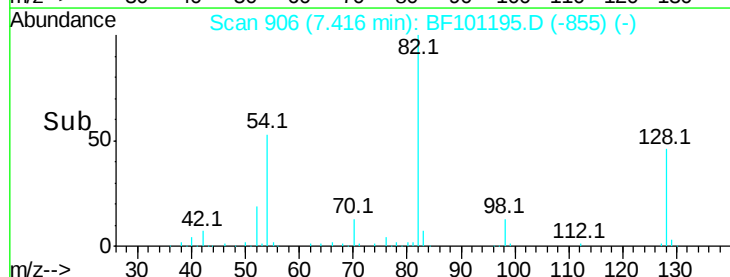
54 53.5 41.4 62.2

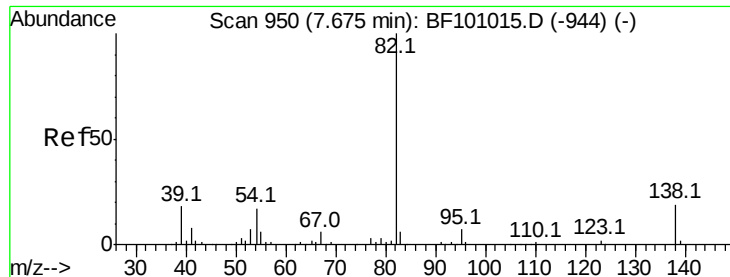


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

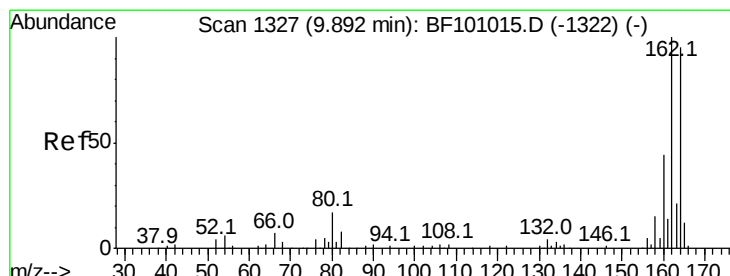
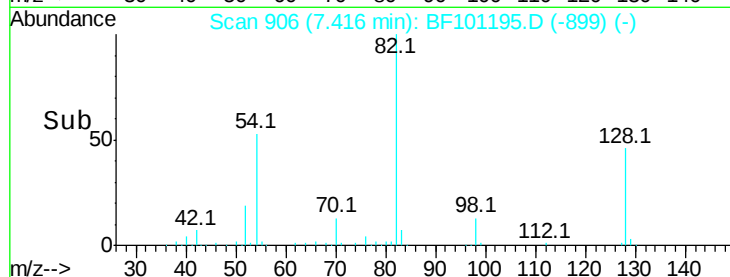
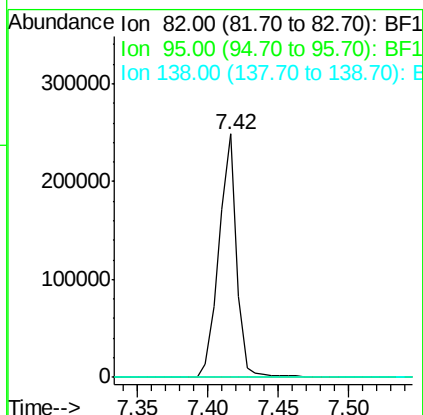
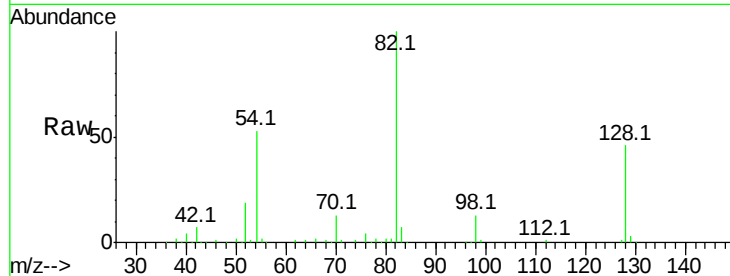




#25  
Isophorone  
Concen: 43.711 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.26 min  
Lab File: BF101195.D  
Acq: 7 Dec 2017 4:32

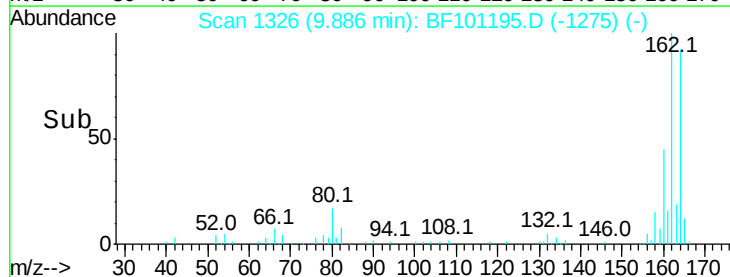
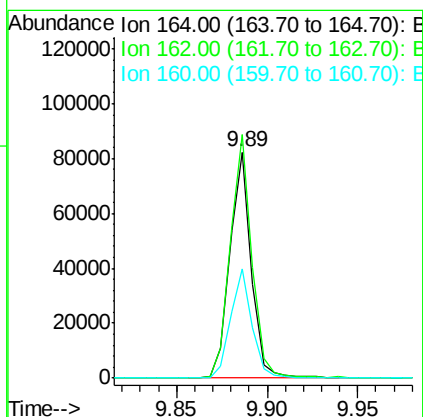
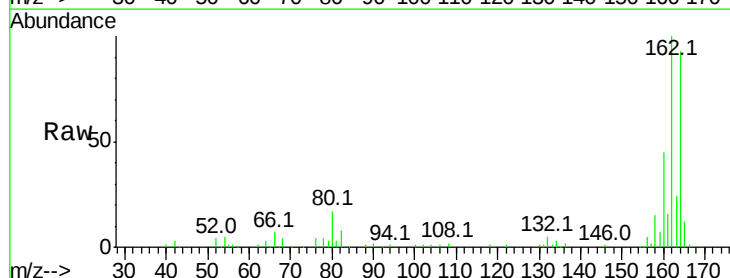
Instrument :  
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BART-1-E(0-1)

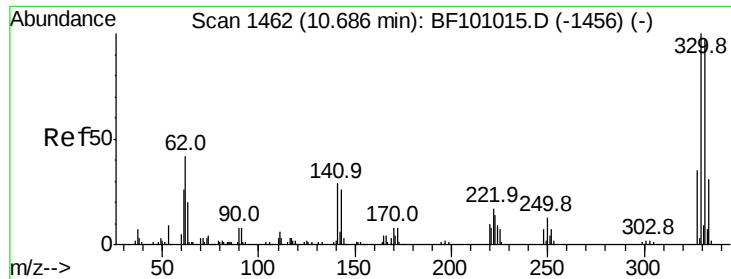
Tot Ion: 82 Resp: 217582  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.89 min Scan# 1326  
Delta R.T. 0.00 min  
Lab File: BF101195.D  
Acq: 7 Dec 2017 4:32

Tgt Ion:164 Resp: 67676  
Ion Ratio Lower Upper  
164 100  
162 107.8 86.1 129.1  
160 48.2 38.3 57.5

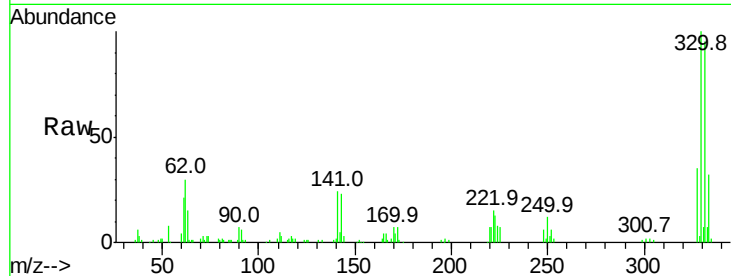




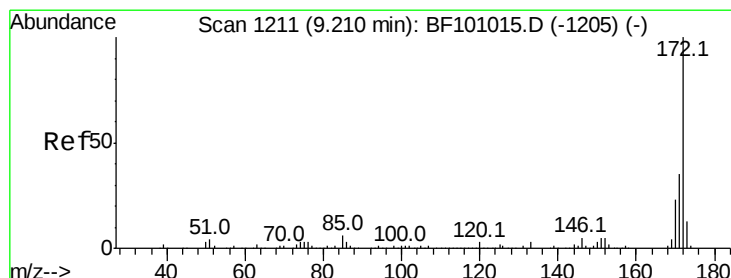
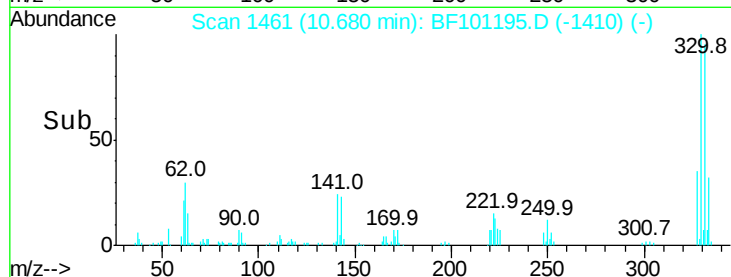
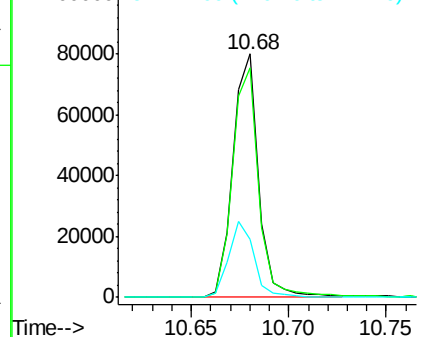
#41  
 2,4,6-Tribromophenol  
 Concen: 89.961 ng  
 RT: 10.68 min Scan# 1461  
 Delta R.T. 0.00 min  
 Lab File: BF101195.D  
 Acq: 7 Dec 2017 4:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-1-E(0-1)

Tot Ion:330 Resp: 73137  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 77.0 115.6  
 141 30.8 29.9 44.9

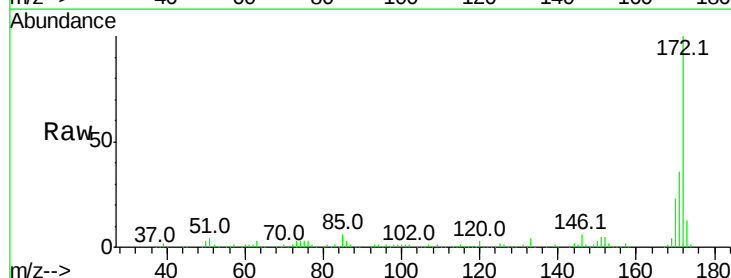


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

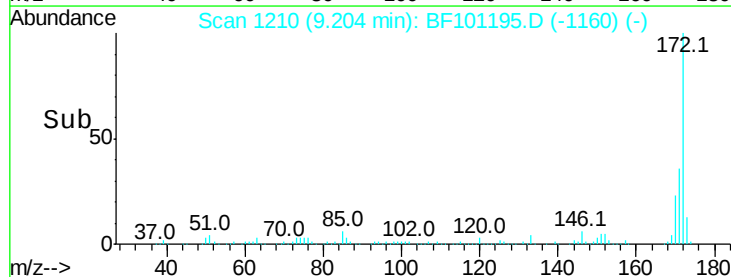
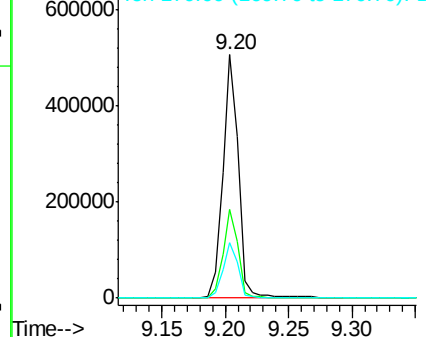


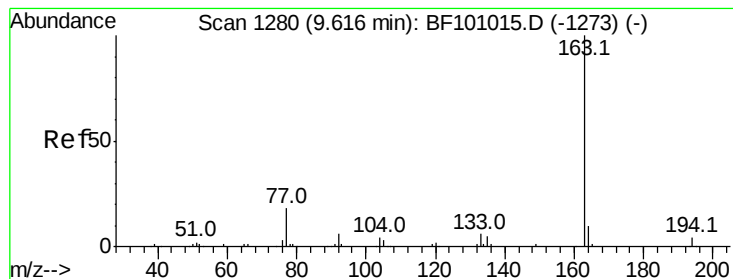
#44  
 2-Fluorobiphenyl  
 Concen: 89.128 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF101195.D  
 Acq: 7 Dec 2017 4:32

Tgt Ion:172 Resp: 440860  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.7 44.5  
 170 22.7 19.6 29.4



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





#49

Dimethylphthalate

Concen: 6.883 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Instrument :

BNA\_F

ClientSampleId :

BART-1-E(0-1)

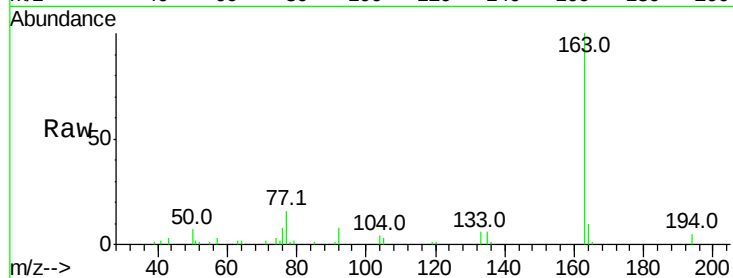
Tot Ion:163 Resp: 37569

Ion Ratio Lower Upper

163 100

194 4.8 2.7 4.1#

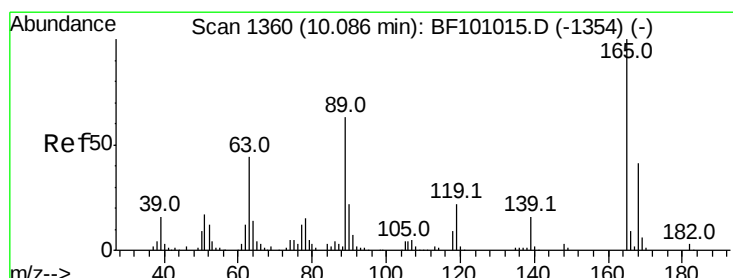
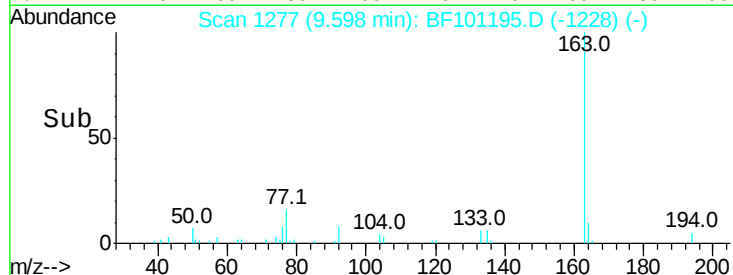
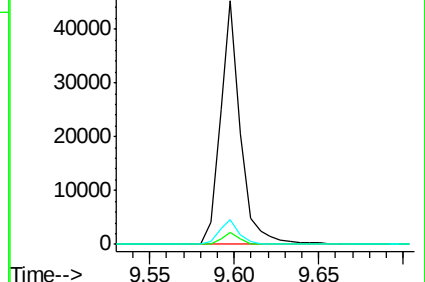
164 10.0 8.2 12.2



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



#56

2,4-Dinitrotoluene

Concen: 5.811 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.19 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Tgt Ion:165 Resp: 8952

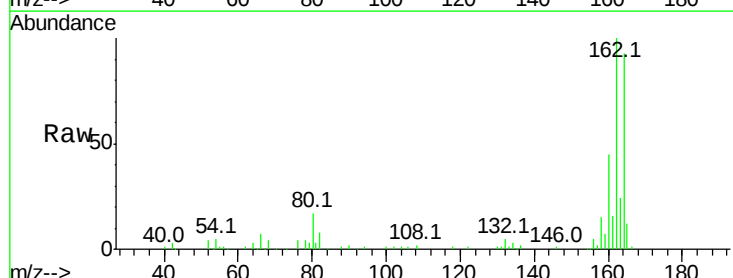
Ion Ratio Lower Upper

165 100

63 0.0 36.4 54.6#

89 0.0 57.8 86.6#

182 0.0 1.6 2.4#

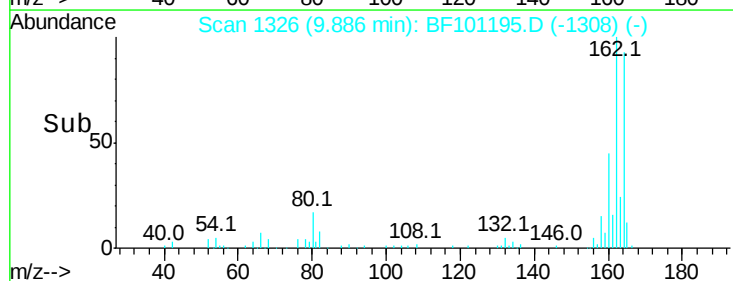
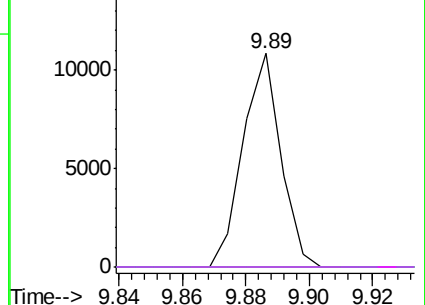


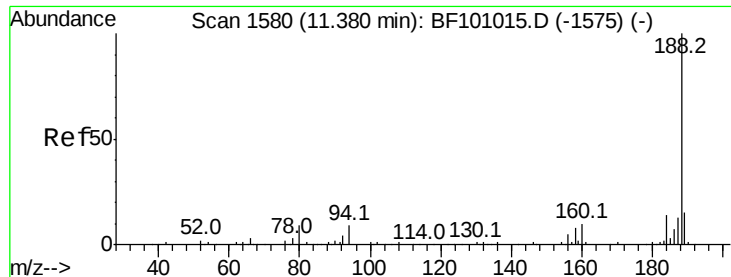
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

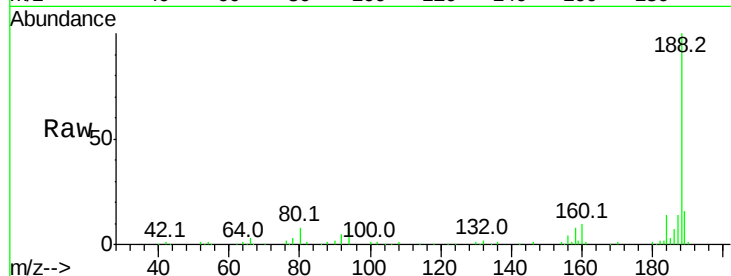




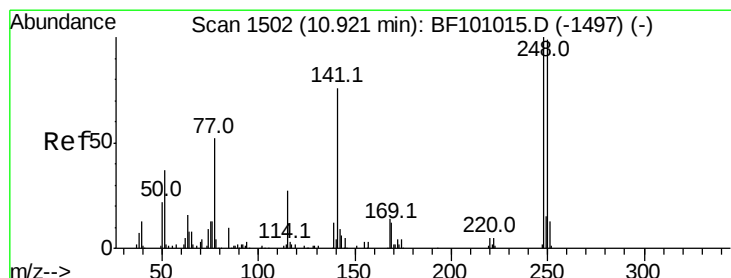
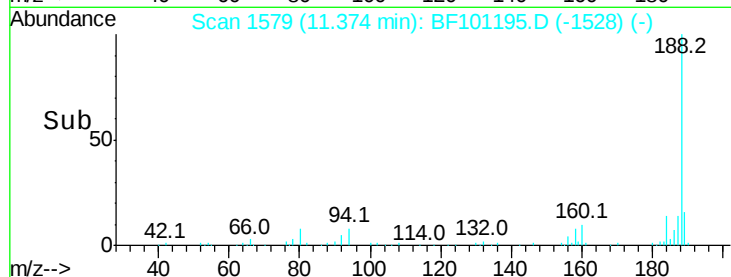
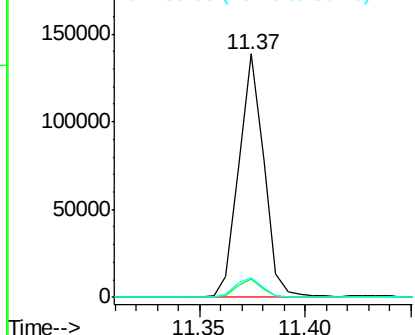
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.37 min Scan# 1579  
 Delta R.T. 0.00 min  
 Lab File: BF101195.D  
 Acq: 7 Dec 2017 4:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-1-E(0-1)

Tot Ion:188 Resp: 113592  
 Ion Ratio Lower Upper  
 188 100  
 94 7.7 8.5 12.7#  
 80 7.9 9.2 13.8#

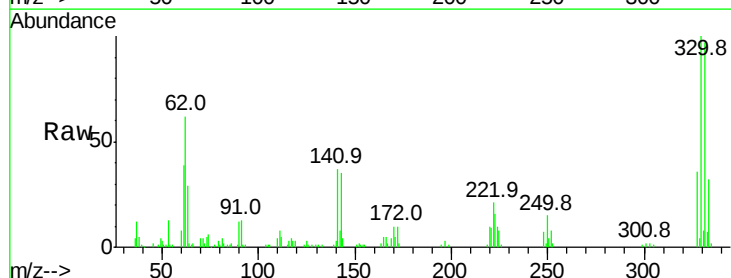


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

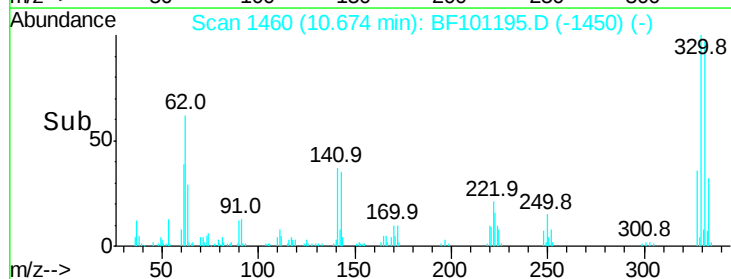
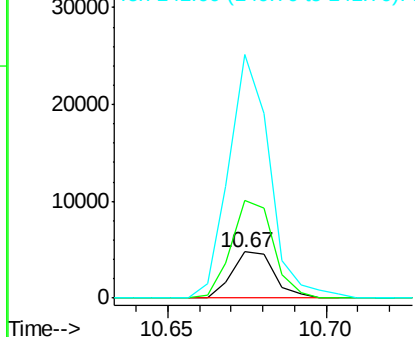


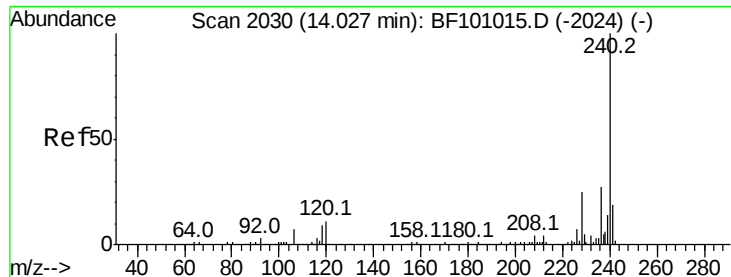
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.468 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.24 min  
 Lab File: BF101195.D  
 Acq: 7 Dec 2017 4:32

Tgt Ion:248 Resp: 4409  
 Ion Ratio Lower Upper  
 248 100  
 250 213.0 76.9 115.3#  
 141 530.6 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. 0.00 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

Instrument :

BNA\_F

ClientSampleId :

BART-1-E(0-1)

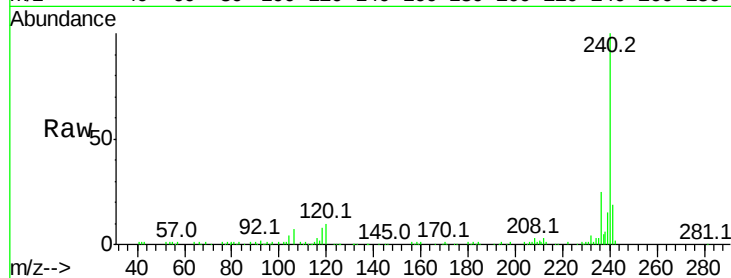
Tot Ion:240 Resp: 109332

Ion Ratio Lower Upper

240 100

120 9.8 9.5 14.3

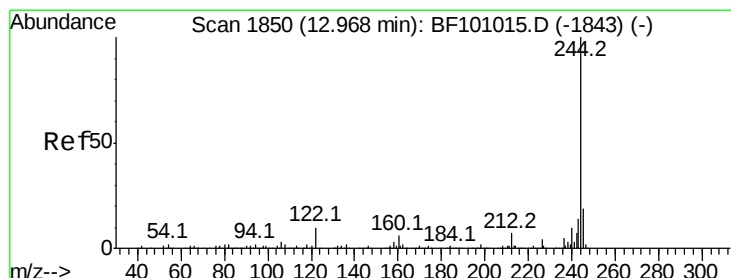
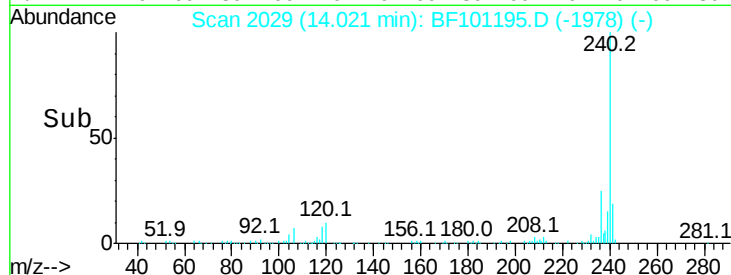
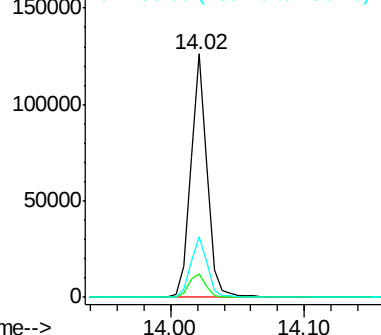
236 25.1 20.7 31.1



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: 71.416 ng

RT: 12.96 min Scan# 1849

Delta R.T. 0.00 min

Lab File: BF101195.D

Acq: 7 Dec 2017 4:32

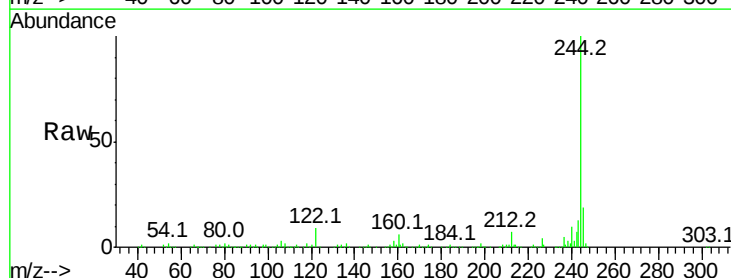
Tgt Ion:244 Resp: 356976

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

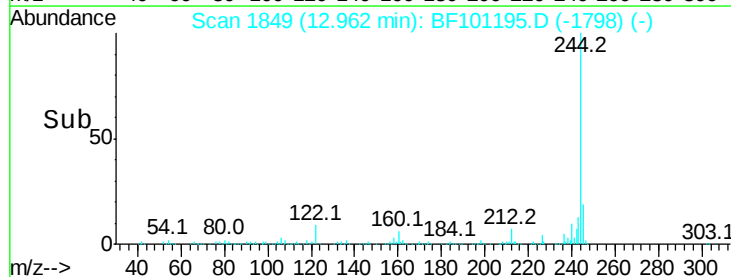
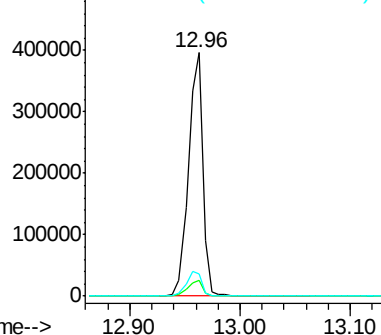
122 9.2 11.0 16.4#

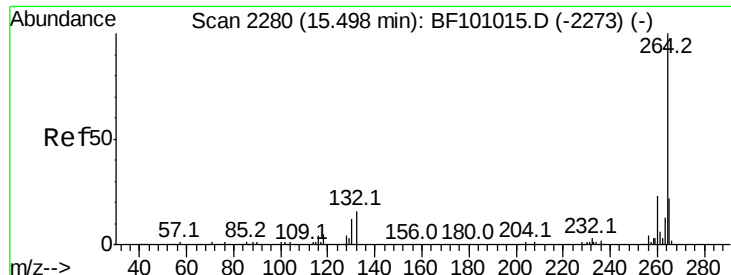


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

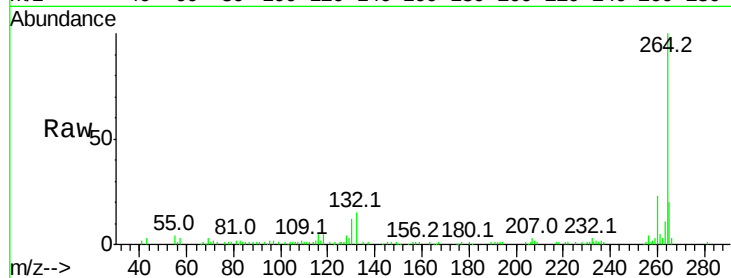




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. 0.01 min  
 Lab File: BF101195.D  
 Acq: 7 Dec 2017 4:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-1-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 19.2  | 28.8  |
| 265     | 19.9  | 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

