

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
 Data File : BF118186.D  
 Acq On : 13 Dec 2019 15:15  
 Operator : JU  
 Sample : K6235-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 13 22:46:00 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 06 17:34:43 2019  
 Response via : Initial Calibration

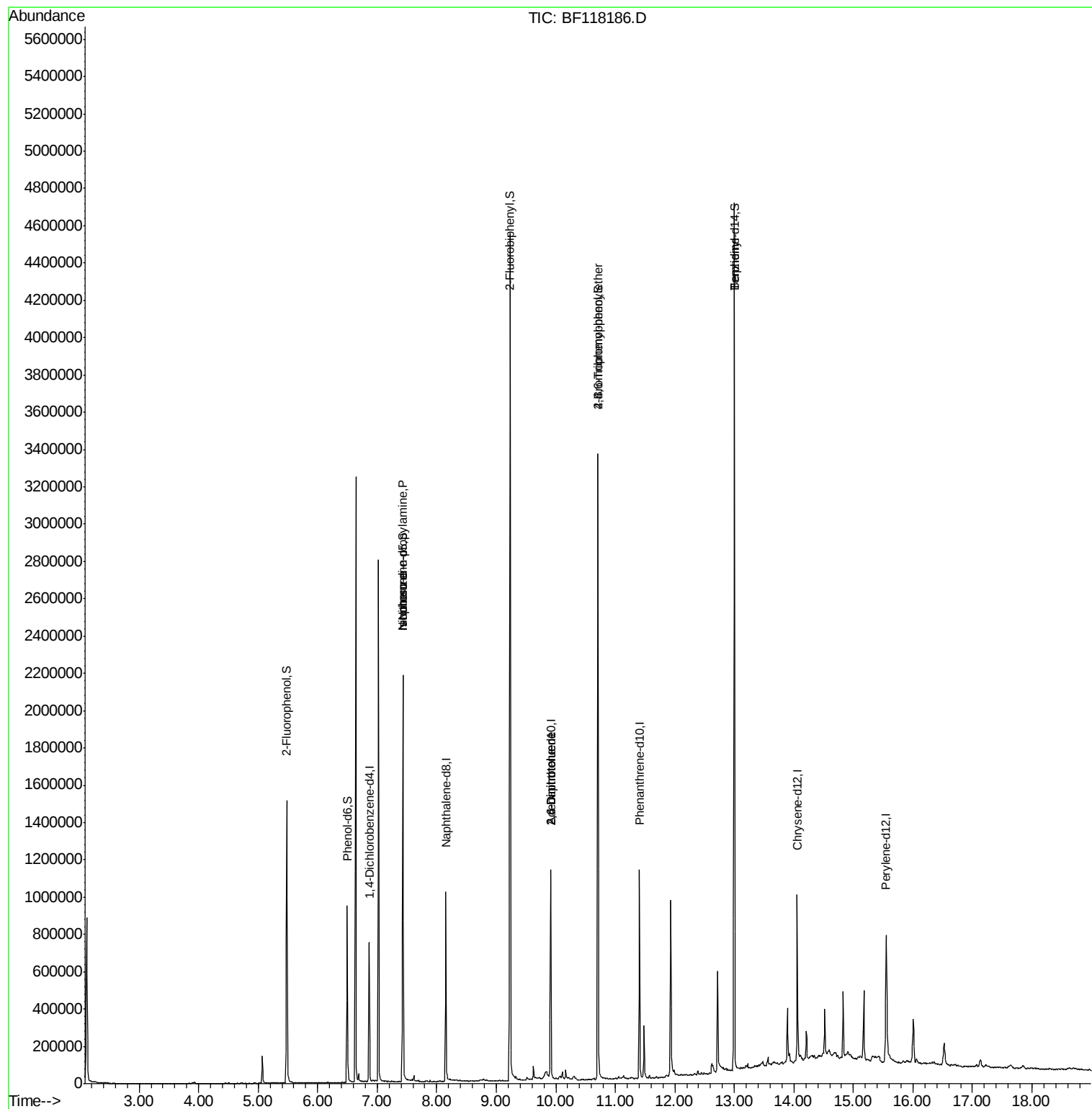
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-----------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 120728   | 20.00     | ng    | 0.00        |
| 21) Naphthalene-d8             | 8.15  | 136  | 466019   | 20.00     | ng    | 0.00        |
| 39) Acenaphthene-d10           | 9.92  | 164  | 243889   | 20.00     | ng    | 0.00        |
| 64) Phenanthrene-d10           | 11.40 | 188  | 450115   | 20.00     | ng    | 0.00        |
| 76) Chrysene-d12               | 14.06 | 240  | 294937   | 20.00     | ng    | -0.01       |
| 87) Perylene-d12               | 15.55 | 264  | 269610   | 20.00     | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |           |       |             |
| 5) 2-Fluorophenol              | 5.48  | 112  | 418572   | 60.72     | ng    | 0.00        |
| 7) Phenol-d6                   | 6.49  | 99   | 311037   | 37.31     | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 716542   | 86.50     | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 10.71 | 330  | 417855   | 141.03    | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 1438294  | 89.74     | ng    | 0.00        |
| 79) Terphenyl-d14              | 13.00 | 244  | 1756899  | 102.44    | ng    | 0.00        |
| Target Compounds               |       |      |          |           |       |             |
| 9) Benzaldehyde                | 6.64  | 77   | 19294    | Below Cal |       | Qvalue # 76 |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 99592    | 19.658    | ng    | # 77        |
| 25) Isophorone                 | 7.43  | 82   | 712754   | 50.757    | ng    | # 62        |
| 51) 2,6-Dinitrotoluene         | 9.92  | 165  | 31262    | 7.981     | ng    | # 27        |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 31262    | 5.979     | ng    | # 26        |
| 67) 4-Bromophenyl-phenylether  | 10.71 | 248  | 26372    | 5.133     | ng    | # 1         |
| 77) Benizidine                 | 13.00 | 184  | 24846    | 3.200     | ng    | # 94        |

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

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BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 06 17:34:43 2019  
Response via : Initial Calibration



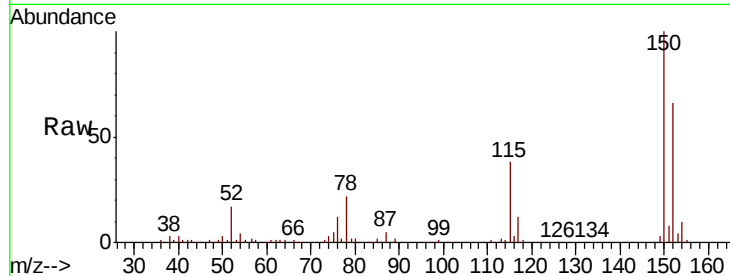


#1

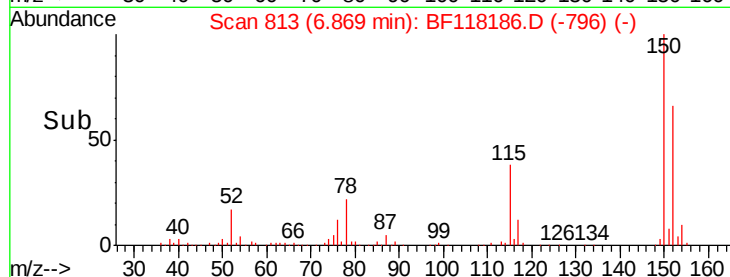
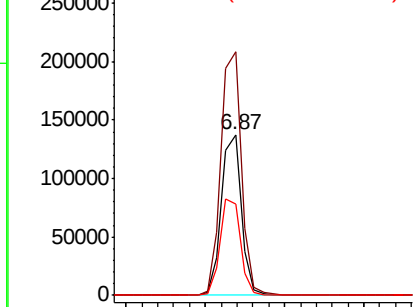
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BF118186.D  
Acq: 13 Dec 2019 15:15

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 120728  
Ion Ratio Lower Upper  
152 100  
150 151.6 128.3 192.5  
115 57.1 51.1 76.7



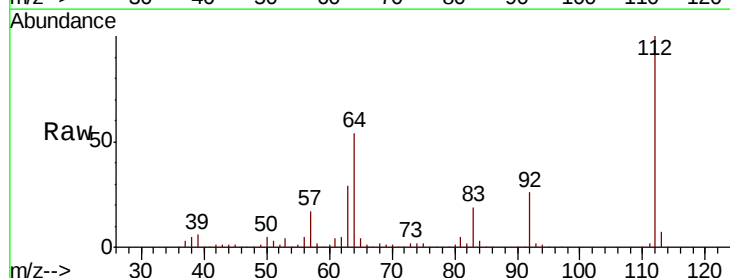
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



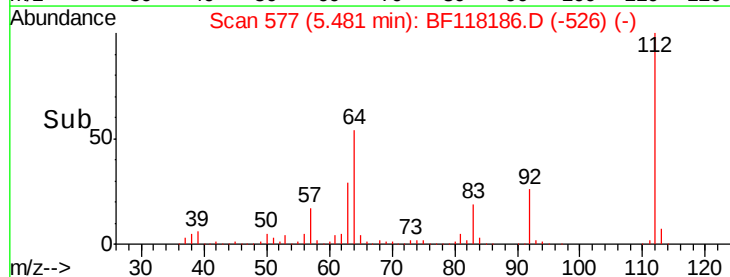
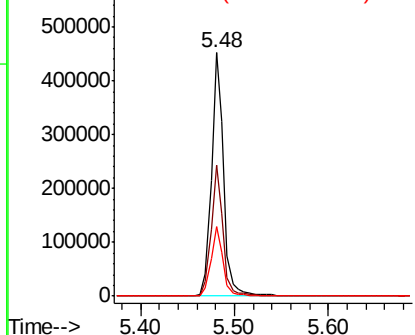
#5

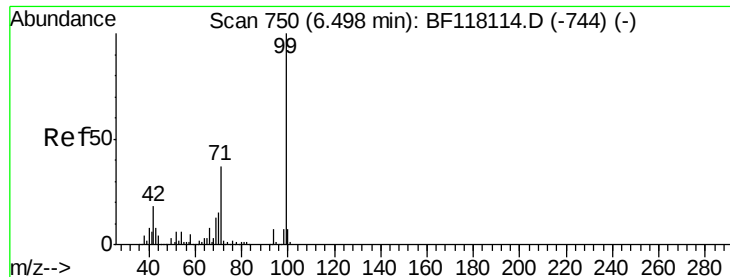
2-Fluorophenol  
Concen: 60.724 ng  
RT: 5.48 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: BF118186.D  
Acq: 13 Dec 2019 15:15

Tgt Ion:112 Resp: 418572  
Ion Ratio Lower Upper  
112 100  
64 53.9 41.3 61.9  
63 28.7 22.4 33.6



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: 37.307 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Instrument :

BNA\_F

ClientSampleId :

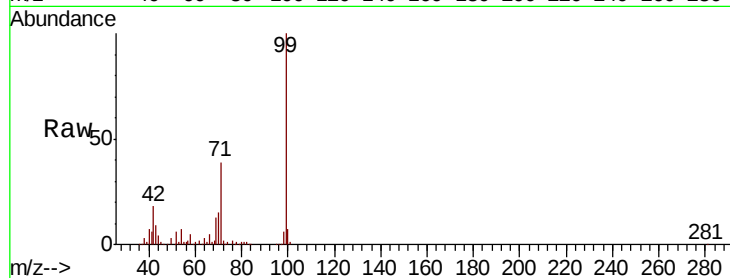
Tot Ion: 99 Resp: 311037

Ion Ratio Lower Upper

99 100

42 18.2 14.1 21.1

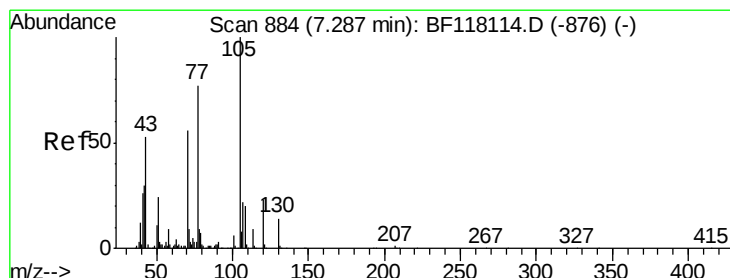
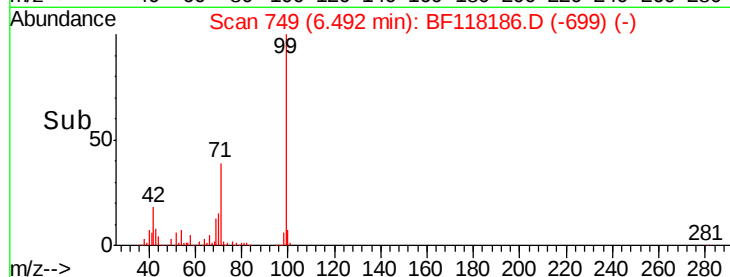
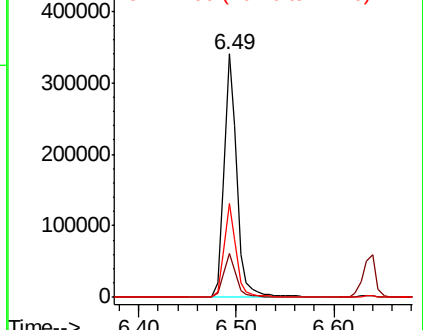
71 38.8 29.7 44.5



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



#19

n-Nitroso-di-n-propylamine

Concen: 19.658 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.15 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Tgt Ion: 70 Resp: 99592

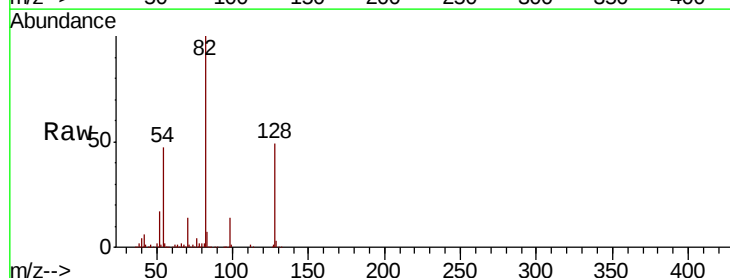
Ion Ratio Lower Upper

70 100

42 45.1 43.2 64.8

101 0.0 8.1 12.1#

130 2.2 19.8 29.8#

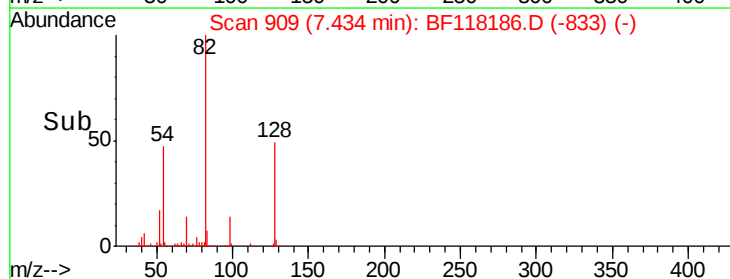
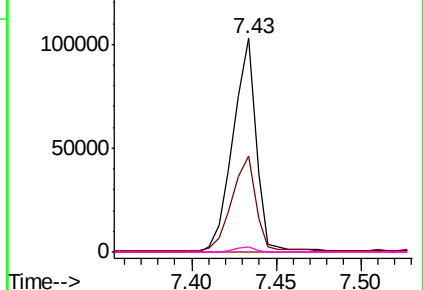


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 466019

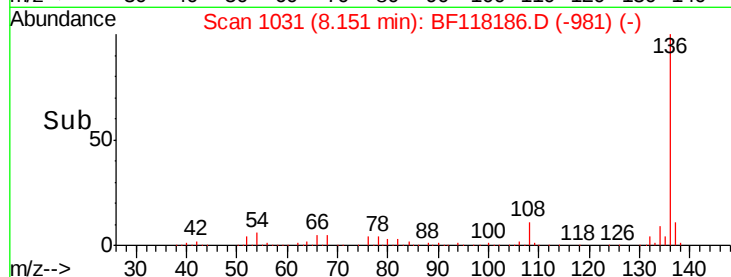
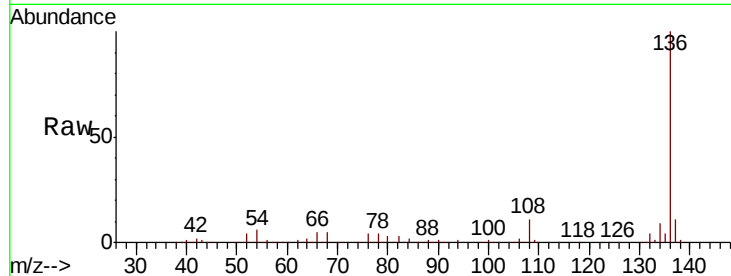
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.6

54 6.3 5.0 7.6

68 4.6 3.8 5.8

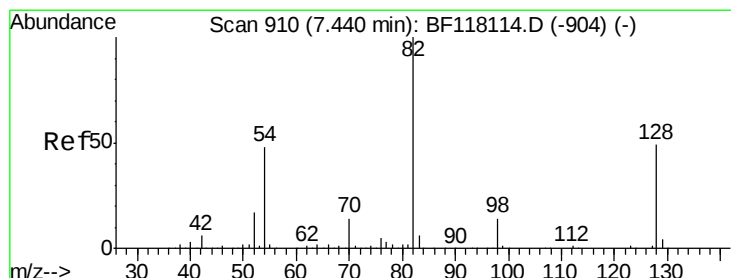
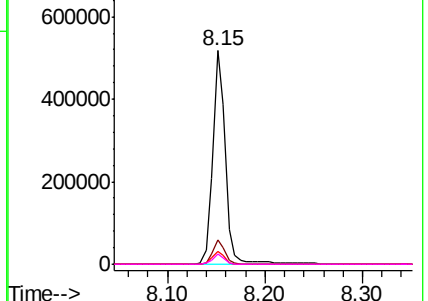


Abundance Ion 136.00 (135.70 to 136.70): E

800000 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: 86.501 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

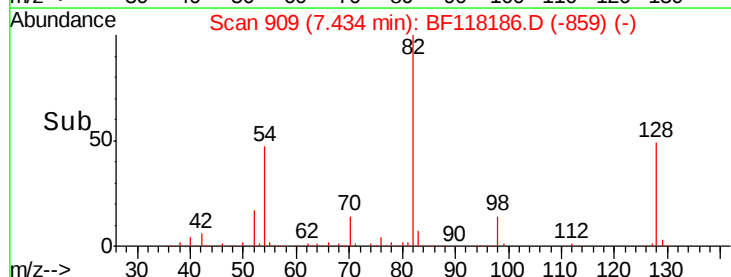
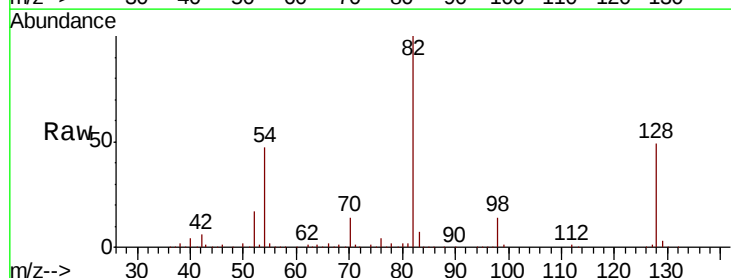
Tgt Ion: 82 Resp: 716542

Ion Ratio Lower Upper

82 100

128 49.3 39.1 58.7

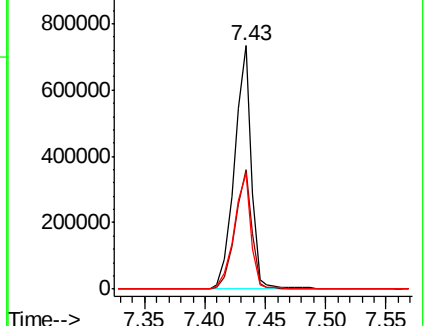
54 47.3 38.2 57.2

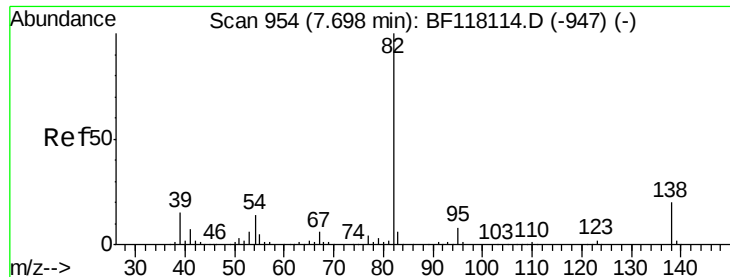


Abundance Ion 82.00 (81.70 to 82.70): BF1

1000000 Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 50.757 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.26 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Instrument :

BNA\_F

ClientSampled :

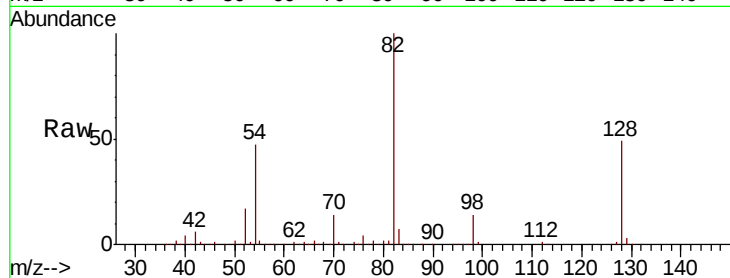
Tot Ion: 82 Resp: 712754

Ion Ratio Lower Upper

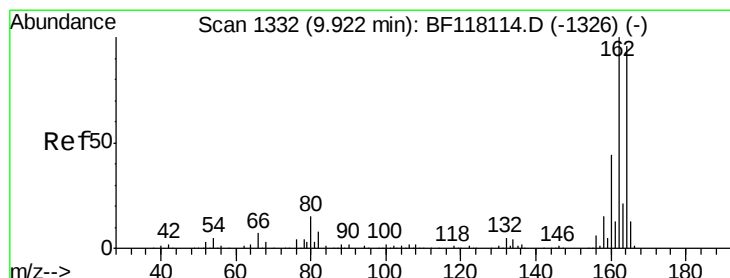
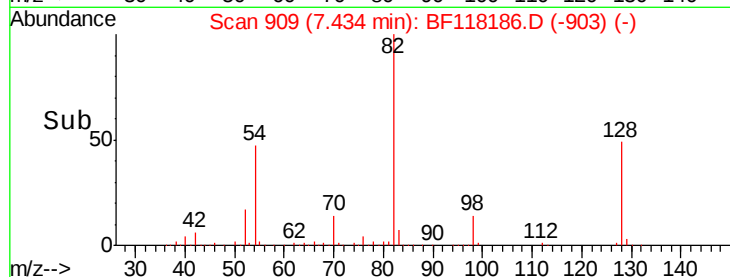
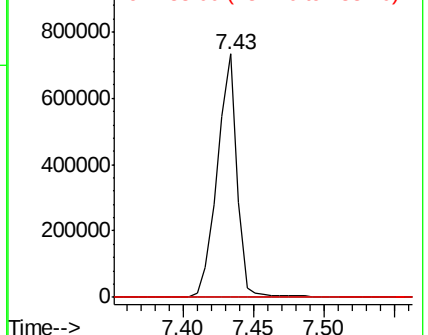
82 100

95 0.1 6.3 9.5#

138 0.0 16.3 24.5#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

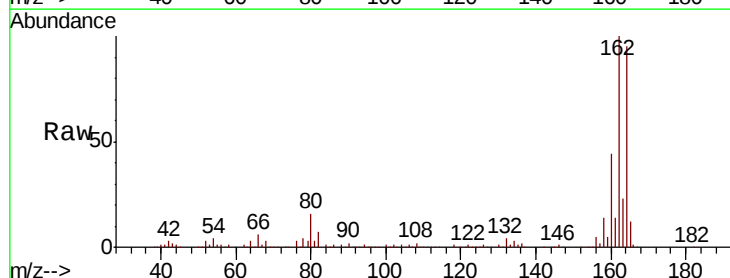
Tgt Ion: 164 Resp: 243889

Ion Ratio Lower Upper

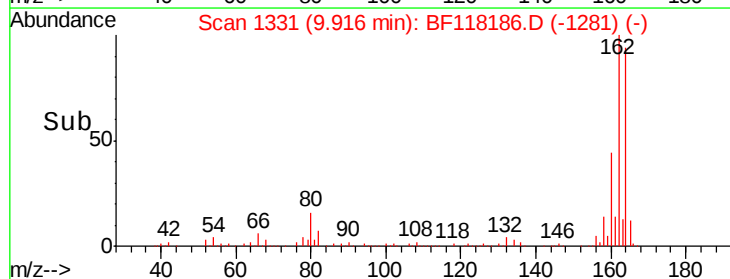
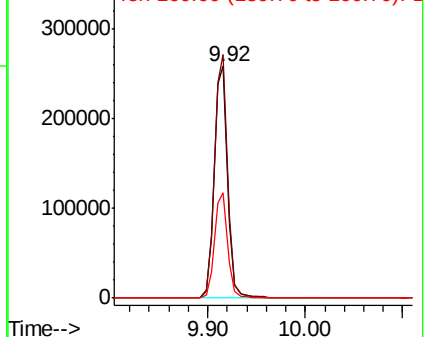
164 100

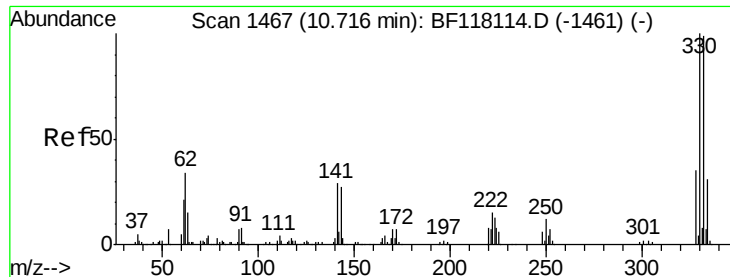
162 105.2 83.4 125.0

160 45.8 36.6 54.8



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: 141.034 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Instrument :

BNA\_F

ClientSampleId :

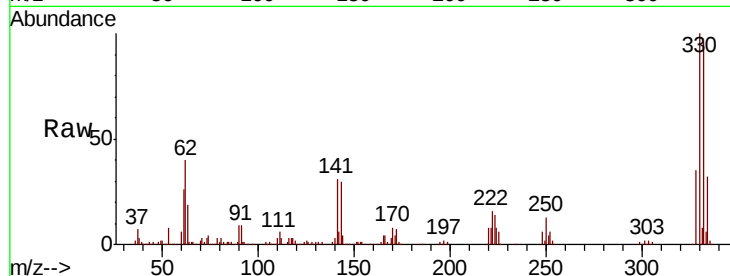
Tot Ion:330 Resp: 417855

Ion Ratio Lower Upper

330 100

332 96.6 78.1 117.1

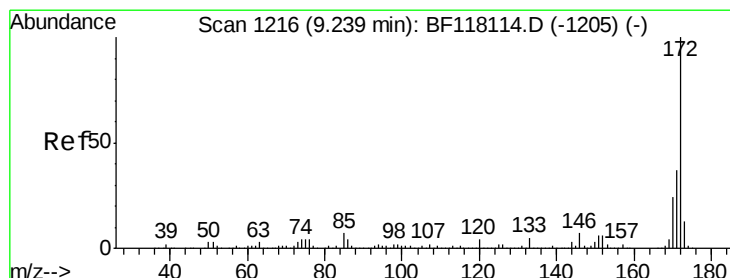
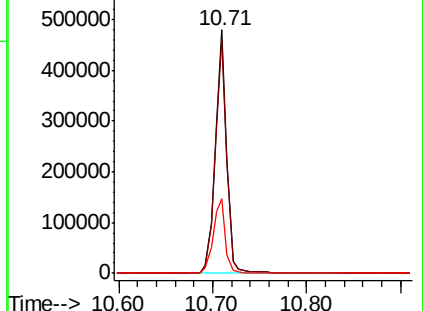
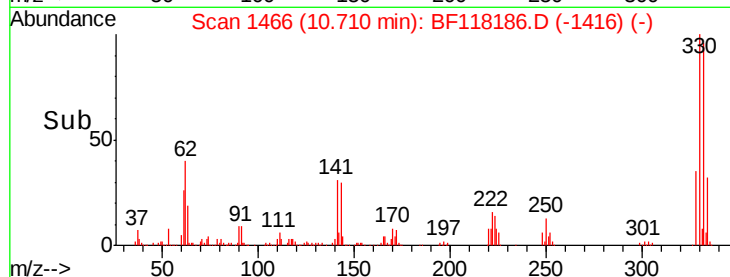
141 32.8 26.9 40.3



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: 89.736 ng

RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

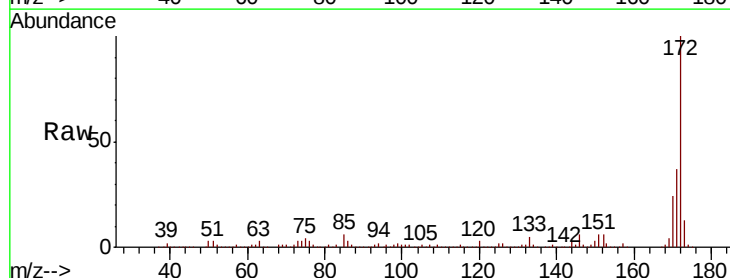
Tgt Ion:172 Resp: 1438294

Ion Ratio Lower Upper

172 100

171 36.5 29.2 43.8

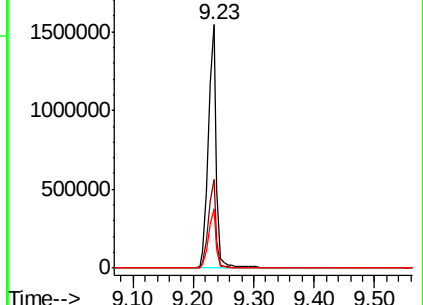
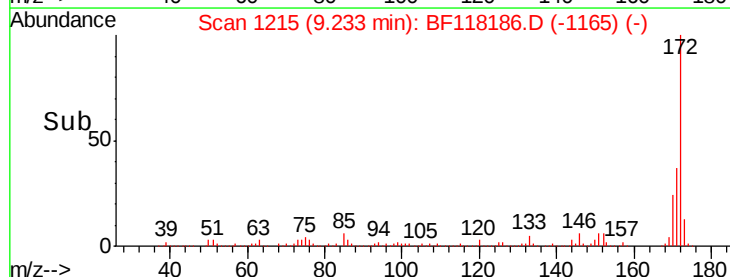
170 24.5 19.4 29.2

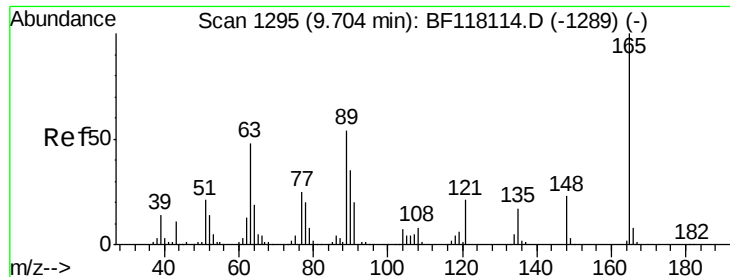


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 7.981 ng

RT: 9.92 min Scan# 1331

Delta R.T. 0.21 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Instrument :

BNA\_F

ClientSampleId :

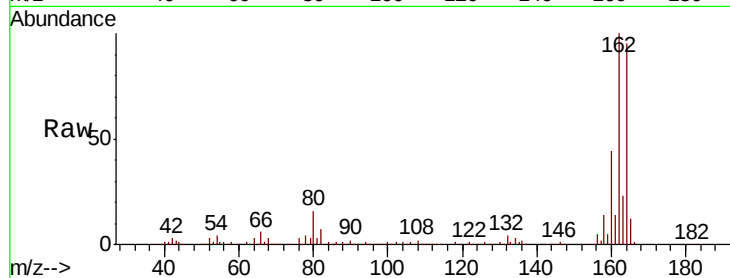
Tot Ion:165 Resp: 31262

Ion Ratio Lower Upper

165 100

63 1.4 41.4 62.0#

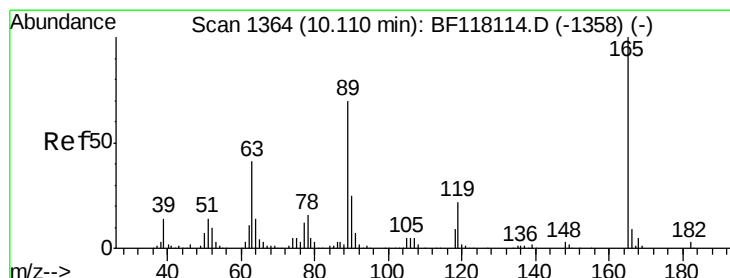
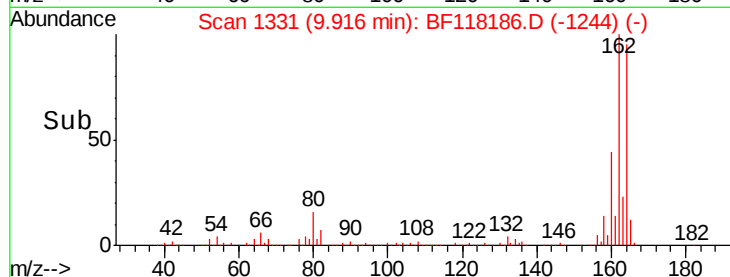
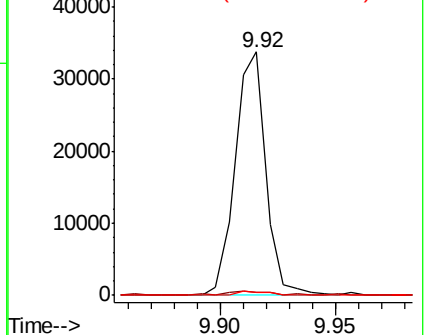
89 1.4 42.9 64.3#



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



#57

2,4-Dinitrotoluene

Concen: 5.979 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.19 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Tgt Ion:165 Resp: 31262

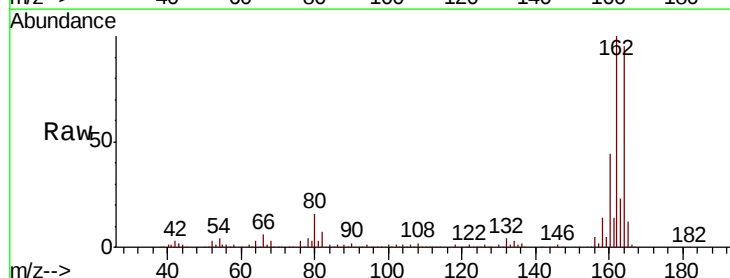
Ion Ratio Lower Upper

165 100

63 1.4 32.6 49.0#

89 1.4 56.1 84.1#

182 1.3 2.1 3.1#

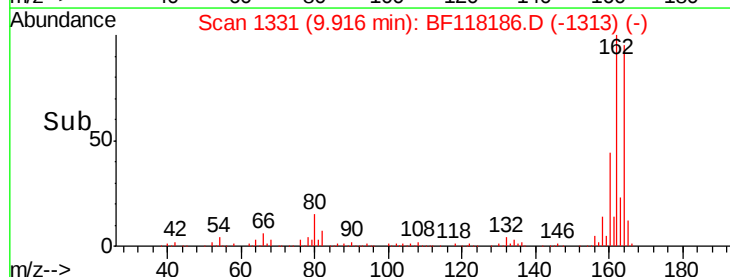
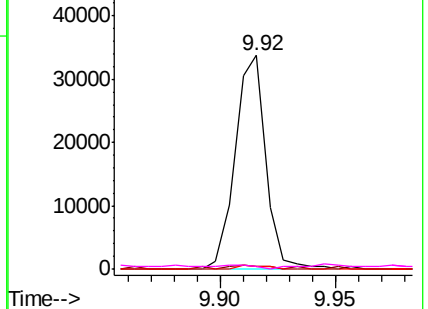


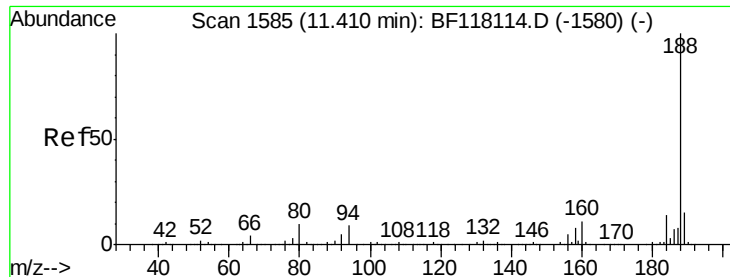
Abundance Ion 165.00 (164.70 to 165.70): E

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

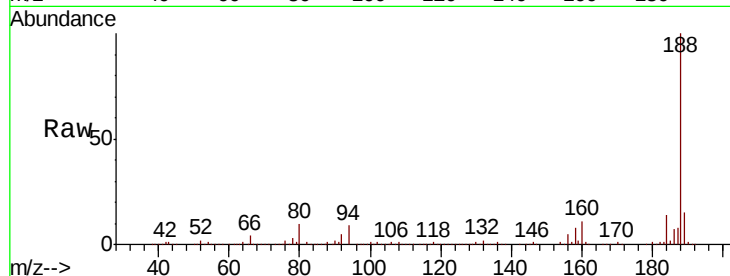




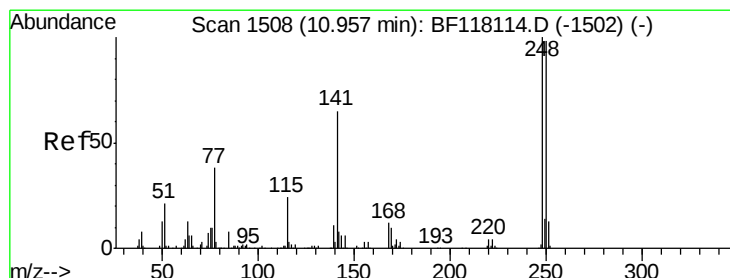
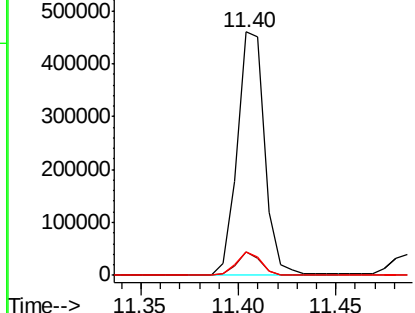
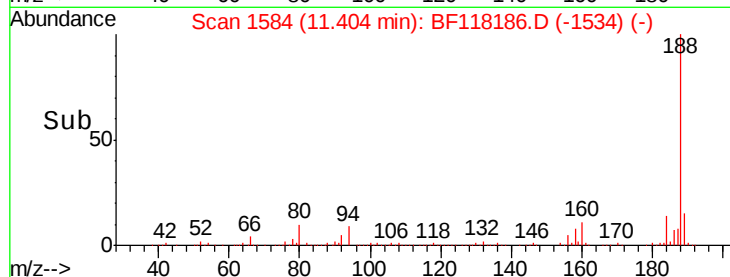
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF118186.D  
 Acq: 13 Dec 2019 15:15

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:188 Resp: 450115  
 Ion Ratio Lower Upper  
 188 100  
 94 9.4 7.1 10.7  
 80 9.6 7.9 11.9

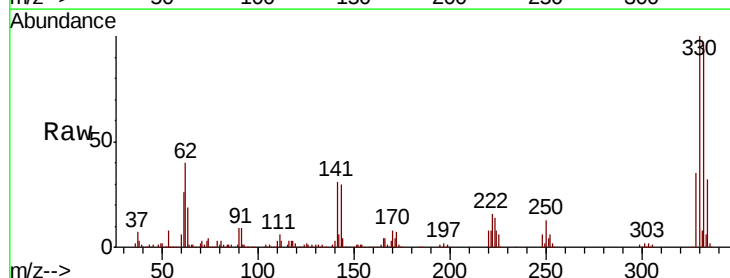


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

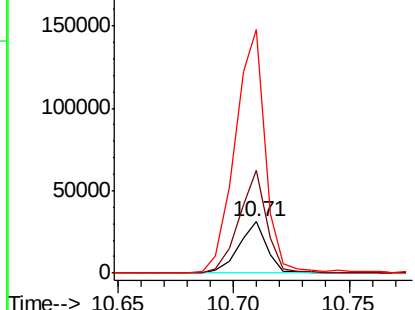
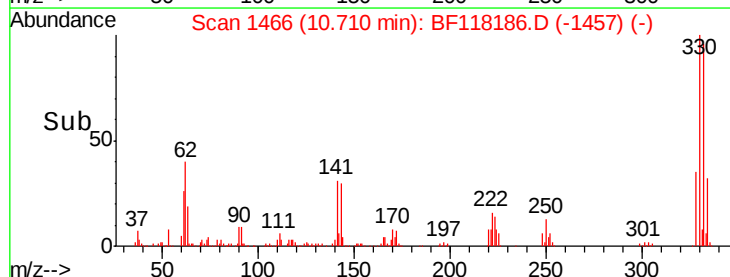


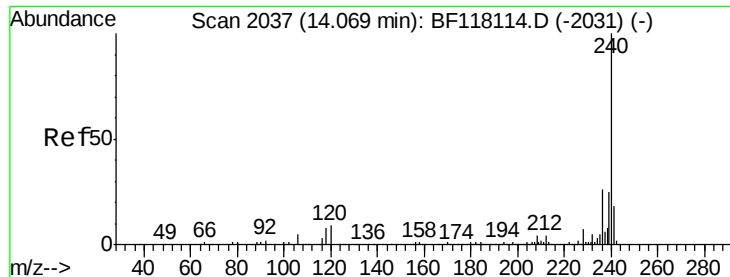
#67  
 4-Bromophenyl-phenylether  
 Concen: 5.133 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.25 min  
 Lab File: BF118186.D  
 Acq: 13 Dec 2019 15:15

Tgt Ion:248 Resp: 26372  
 Ion Ratio Lower Upper  
 248 100  
 250 201.3 78.3 117.5#  
 141 477.1 52.2 78.4#



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

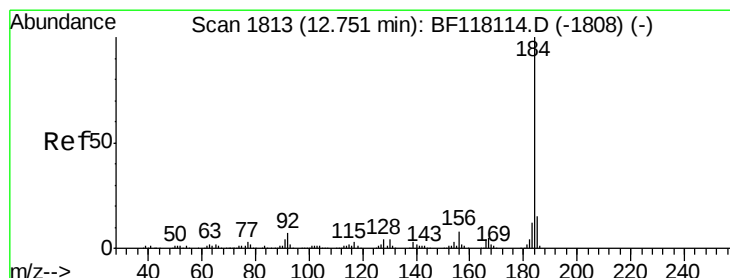
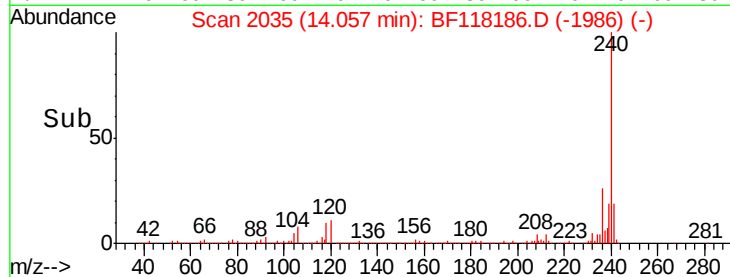
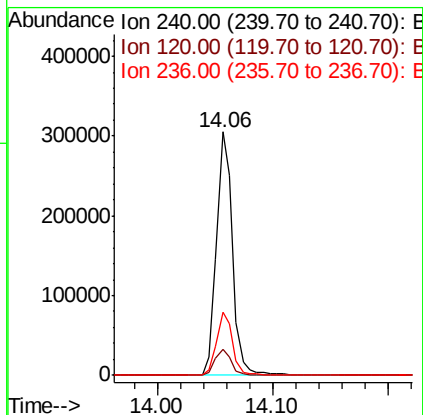
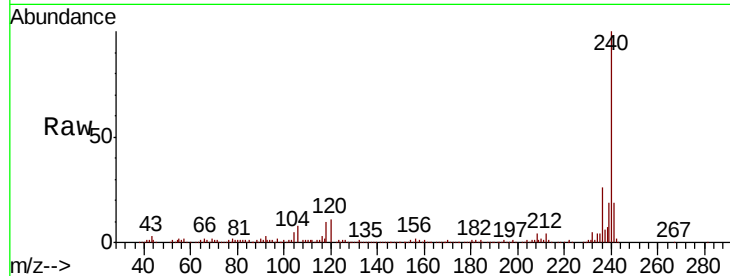




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.06 min Scan# 2035  
 Delta R.T. -0.01 min  
 Lab File: BF118186.D  
 Acq: 13 Dec 2019 15:15

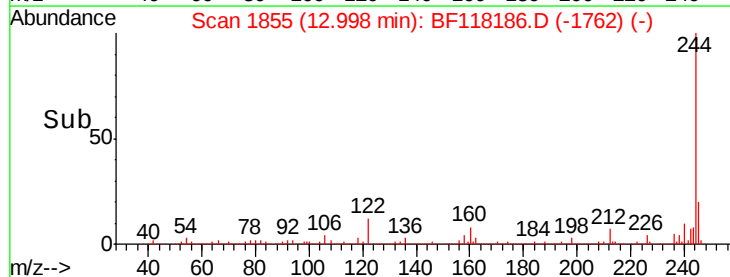
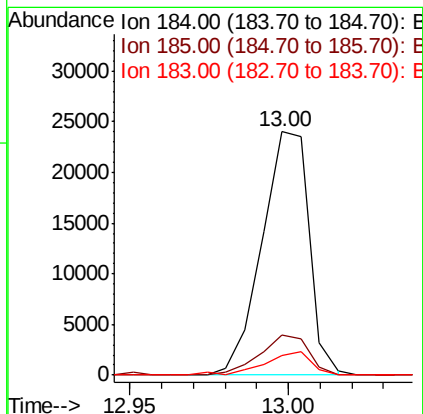
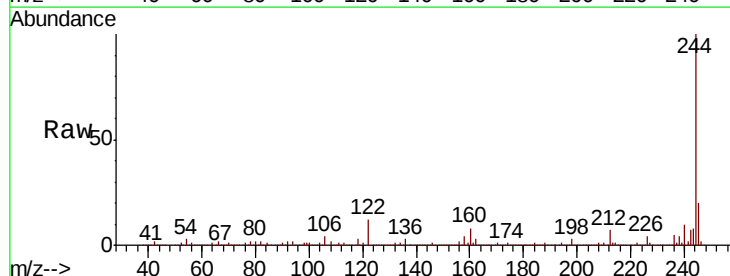
Instrument :  
 BNA\_F  
 ClientSampleId :

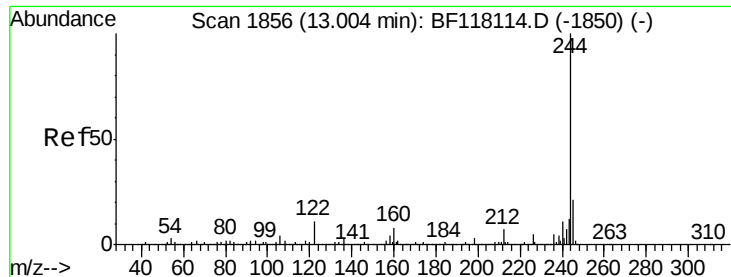
Tot Ion:240 Resp: 294937  
 Ion Ratio Lower Upper  
 240 100  
 120 10.8 7.1 10.7#  
 236 26.2 21.0 31.6



#77  
 Benzidine  
 Concen: 3.200 ng  
 RT: 13.00 min Scan# 1855  
 Delta R.T. 0.25 min  
 Lab File: BF118186.D  
 Acq: 13 Dec 2019 15:15

Tgt Ion:184 Resp: 24846  
 Ion Ratio Lower Upper  
 184 100  
 185 16.5 12.3 18.5  
 183 8.0 9.9 14.9#





#79

Terphenyl-d14

Concen: 102.436 ng

RT: 13.00 min Scan# 1856

Delta R.T. -0.00 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

Instrument :

BNA\_F

ClientSampleId :

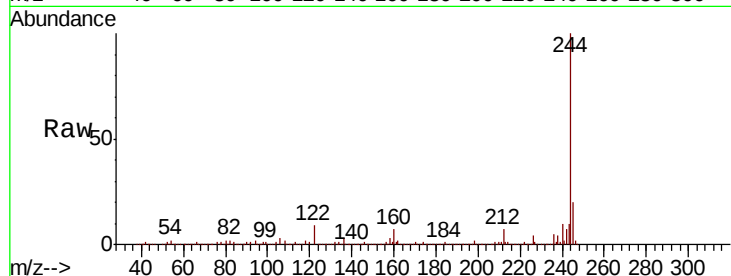
Tot Ion:244 Resp: 1756899

Ion Ratio Lower Upper

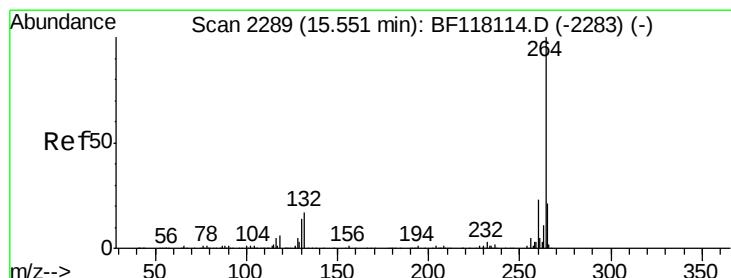
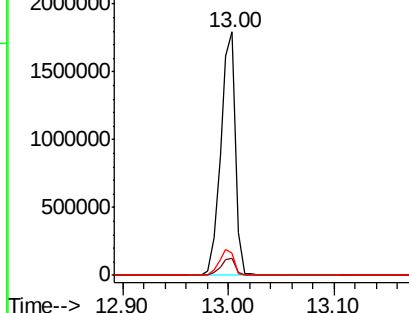
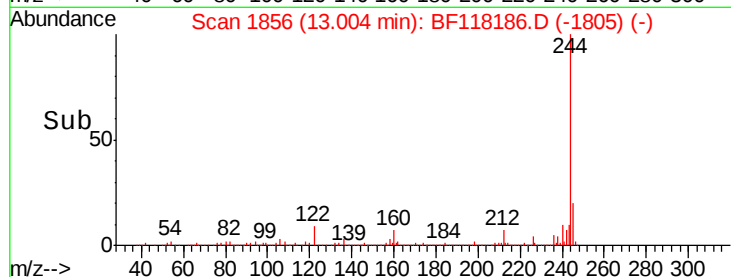
244 100

212 6.9 5.9 8.9

122 9.2 9.0 13.6



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: 15.55 min Scan# 2289

Delta R.T. -0.00 min

Lab File: BF118186.D

Acq: 13 Dec 2019 15:15

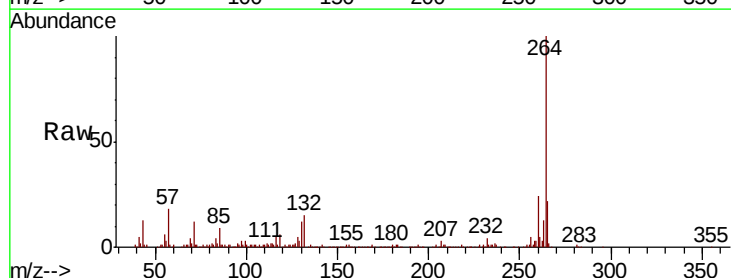
Tgt Ion:264 Resp: 269610

Ion Ratio Lower Upper

264 100

260 24.2 18.6 28.0

265 22.0 16.8 25.2



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

