

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042519\  
 Data File : BF113983.D  
 Acq On : 25 Apr 2019 17:50  
 Operator : JU/SJ  
 Sample : K2544-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 25 23:17:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 23 03:32:35 2019  
 Response via : Initial Calibration

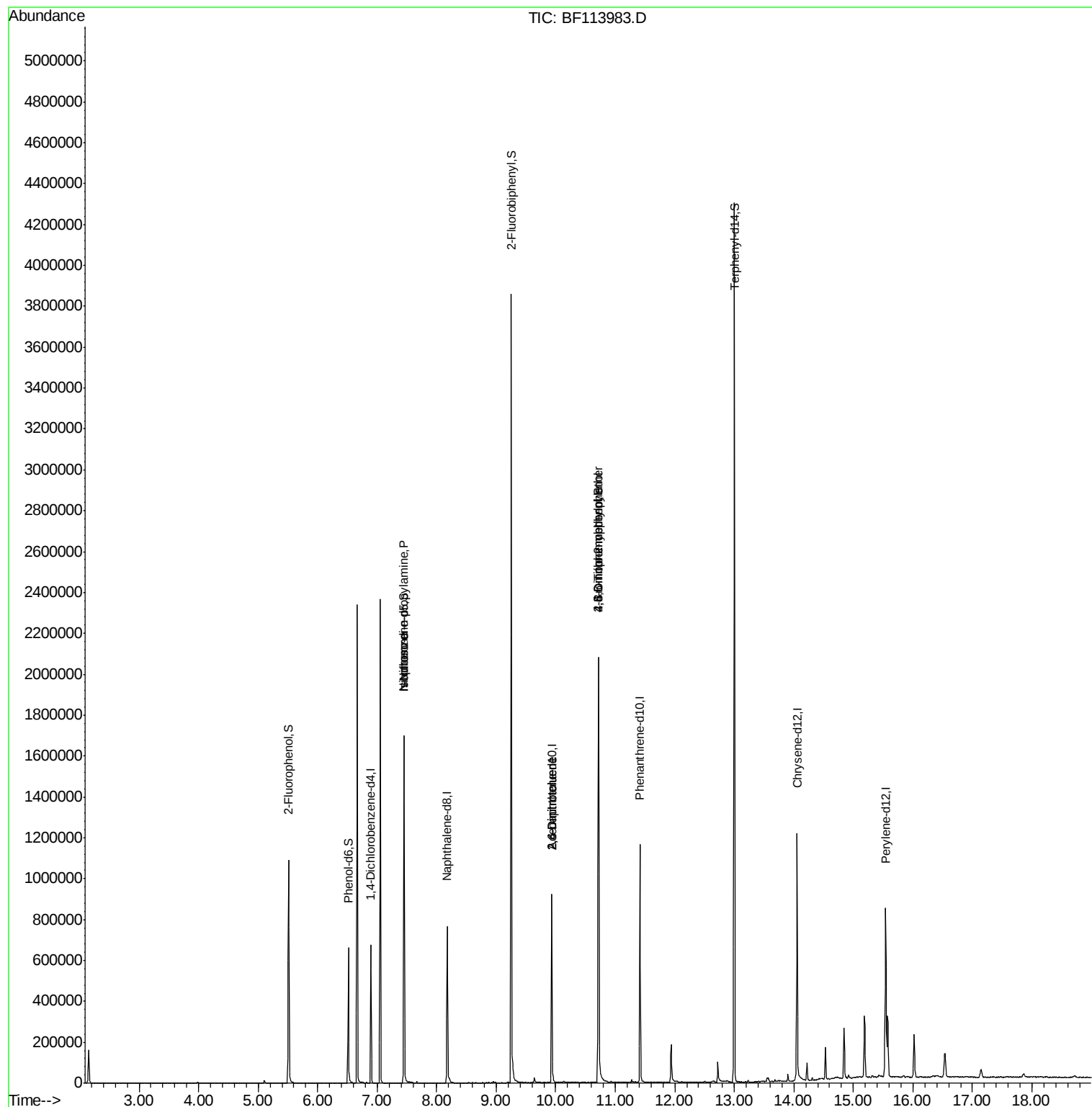
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 100661   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.17  | 136  | 379081   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.93  | 164  | 203628   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.42 | 188  | 426794   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 14.05 | 240  | 410540   | 20.00     | ng    | -0.02    |
| 87) Perylene-d12               | 15.54 | 264  | 430370   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 324462   | 55.13     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.52  | 99   | 260676   | 35.30     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 598376   | 97.46     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.72 | 330  | 342855   | 138.21    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.25  | 172  | 1222429  | 93.89     | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.00 | 244  | 1706475  | 85.22     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.66  | 77   | 13538    | Below Cal |       | 87       |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 80845    | 16.907 ng | #     | 76       |
| 25) Isophorone                 | 7.45  | 82   | 598370   | 47.631 ng | #     | 65       |
| 51) 2,6-Dinitrotoluene         | 9.93  | 165  | 26619    | 8.425 ng  | #     | 33       |
| 57) 2,4-Dinitrotoluene         | 9.93  | 165  | 26619    | 6.675 ng  | #     | 30       |
| 65) 4,6-Dinitro-2-methylphenol | 10.72 | 198  | 497      | 7.524 ng  | #     | 1        |
| 67) 4-Bromophenyl-phenylether  | 10.72 | 248  | 20615    | 3.998 ng  | #     | 1        |

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

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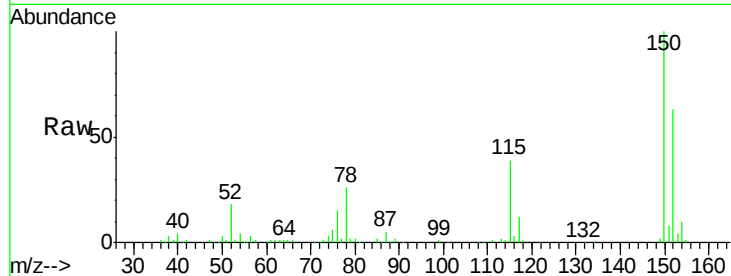


#1

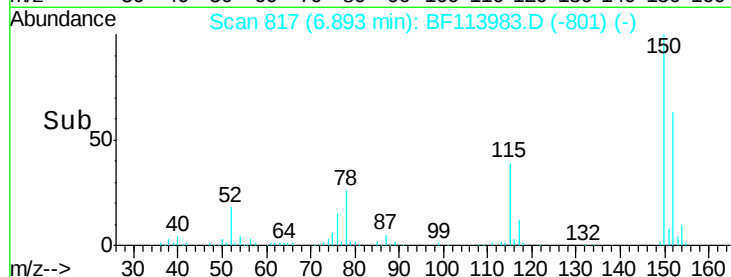
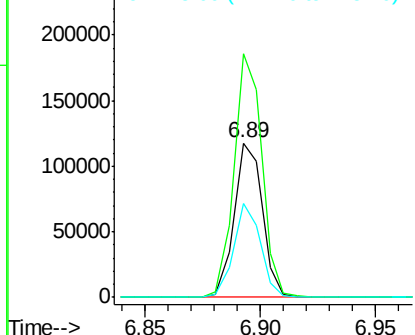
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BF113983.D  
Acq: 25 Apr 2019 17:50

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 100661  
Ion Ratio Lower Upper  
152 100  
150 157.5 125.9 188.9  
115 60.7 45.9 68.9



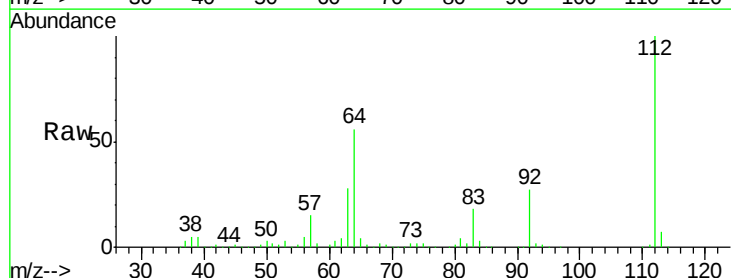
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



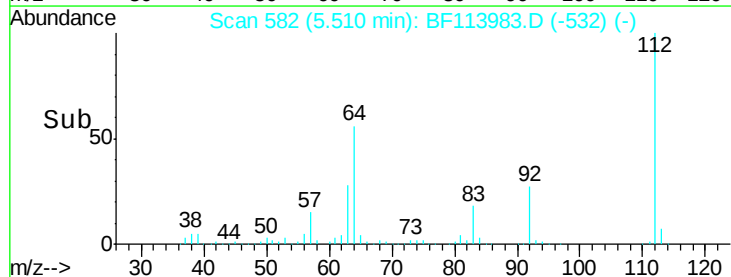
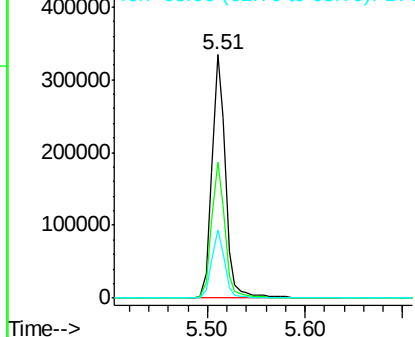
#5

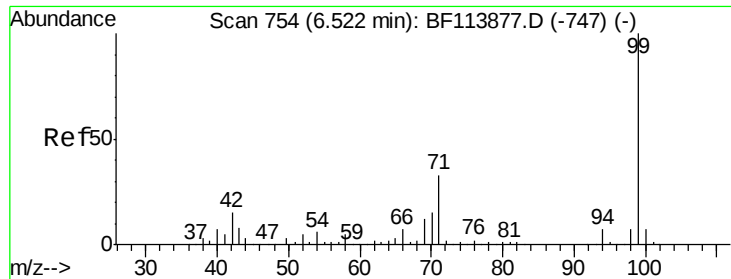
2-Fluorophenol  
Concen: 55.130 ng  
RT: 5.51 min Scan# 582  
Delta R.T. -0.01 min  
Lab File: BF113983.D  
Acq: 25 Apr 2019 17:50

Tgt Ion:112 Resp: 324462  
Ion Ratio Lower Upper  
112 100  
64 56.1 46.6 69.8  
63 27.8 23.1 34.7



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: 35.303 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

Instrument :

BNA\_F

ClientSampleId :

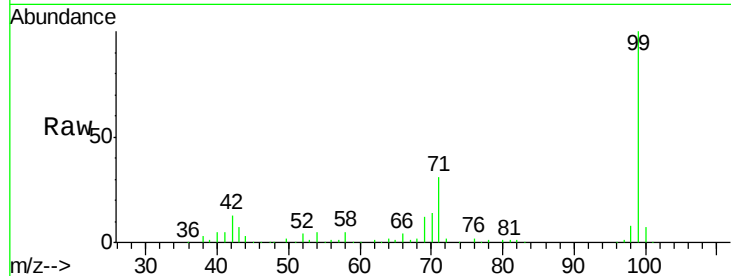
Tot Ion: 99 Resp: 260676

Ion Ratio Lower Upper

99 100

42 13.1 12.5 18.7

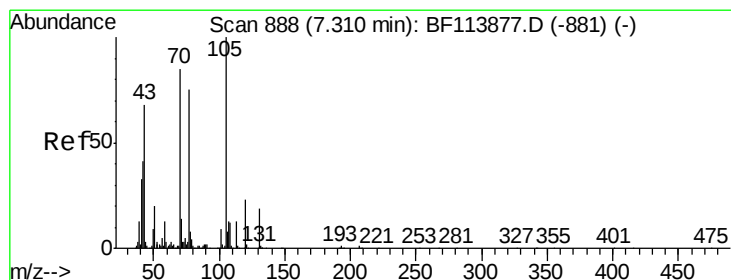
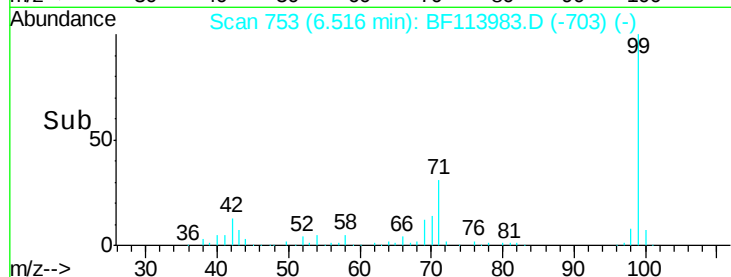
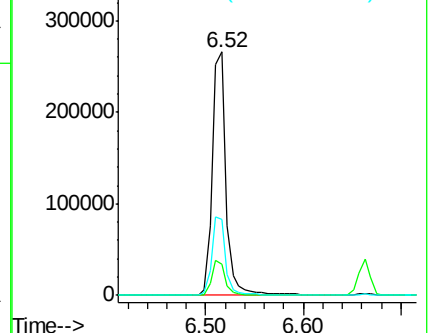
71 31.0 26.9 40.3



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: 16.907 ng

RT: 7.45 min Scan# 912

Delta R.T. 0.14 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

Tgt Ion: 70 Resp: 80845

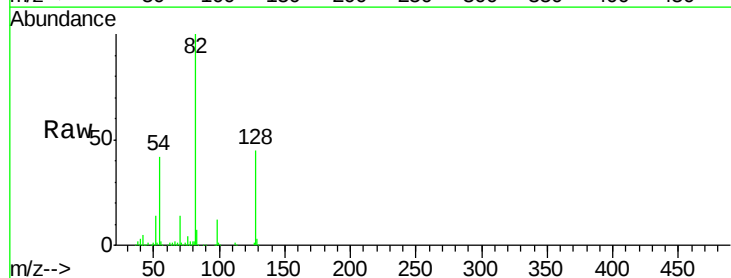
Ion Ratio Lower Upper

70 100

42 37.2 37.3 55.9#

101 0.0 7.8 11.8#

130 2.2 18.2 27.2#

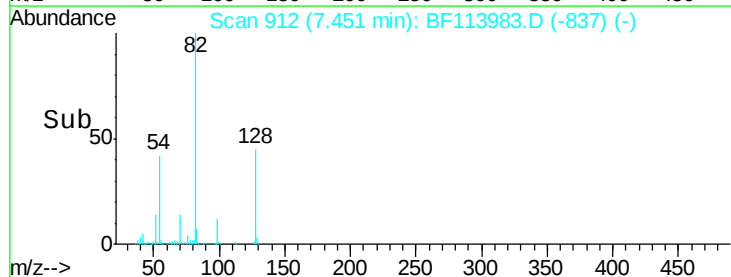
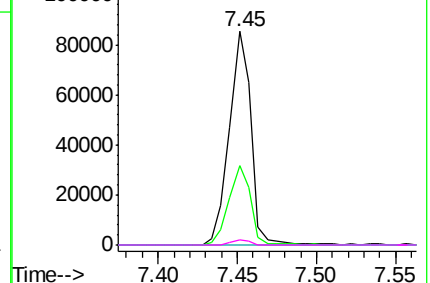


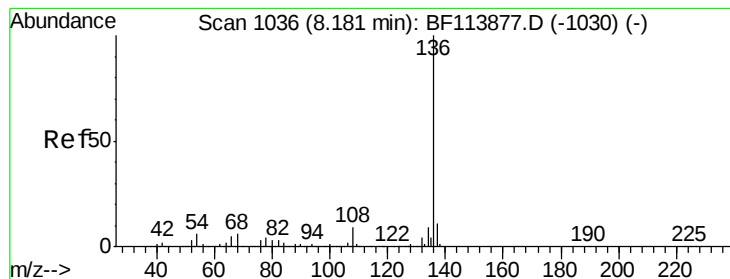
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 379081

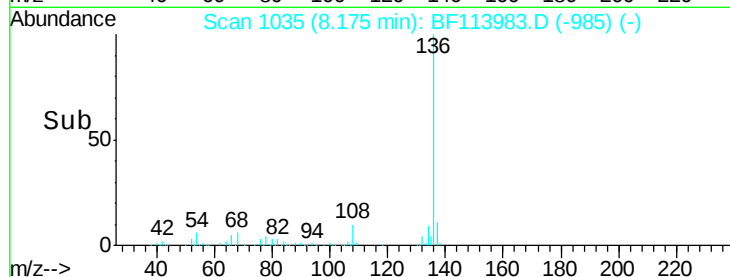
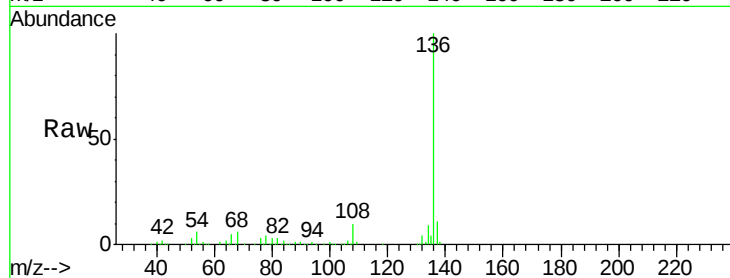
Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

54 6.1 5.0 7.6

68 6.2 4.9 7.3

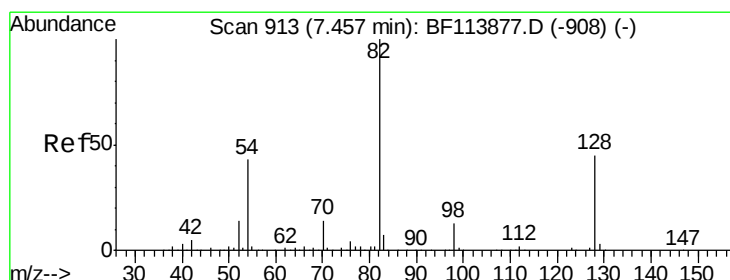
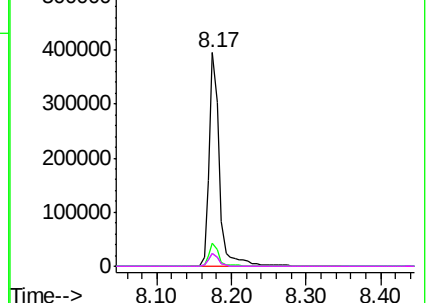


Abundance Ion 136.00 (135.70 to 136.70): E

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: 97.462 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

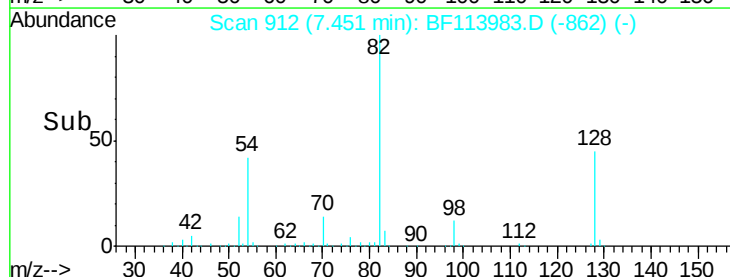
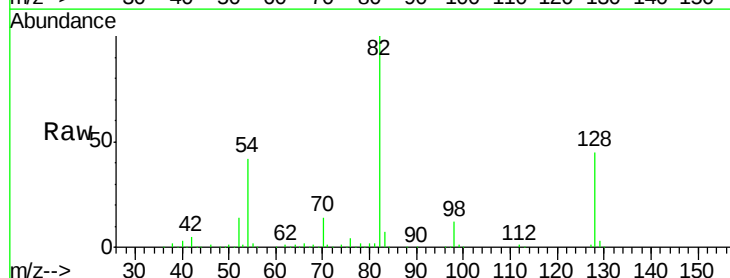
Tgt Ion: 82 Resp: 598376

Ion Ratio Lower Upper

82 100

128 45.4 36.8 55.2

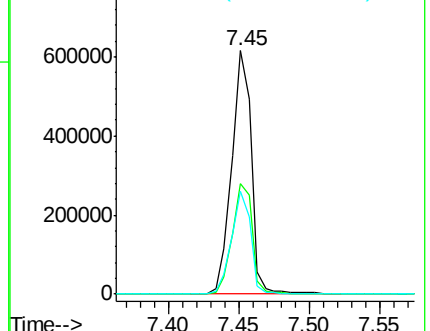
54 42.3 33.8 50.6



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: 47.631 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.26 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

Instrument :

BNA\_F

ClientSampleId :

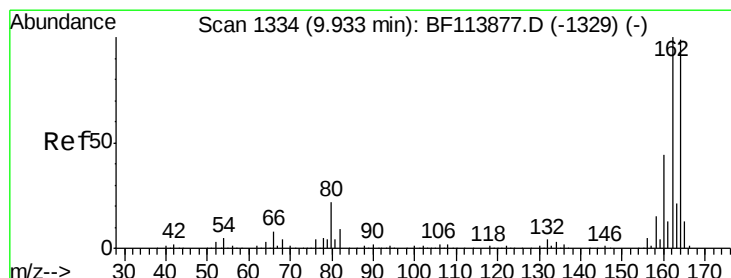
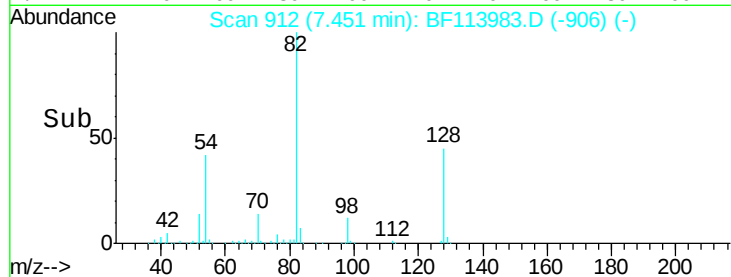
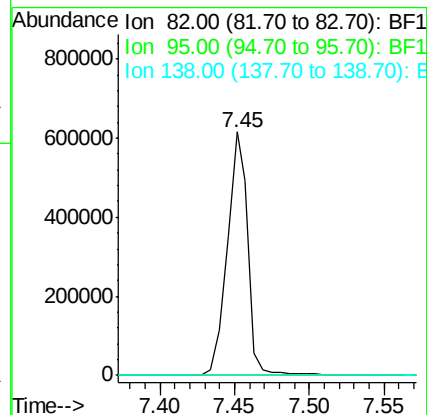
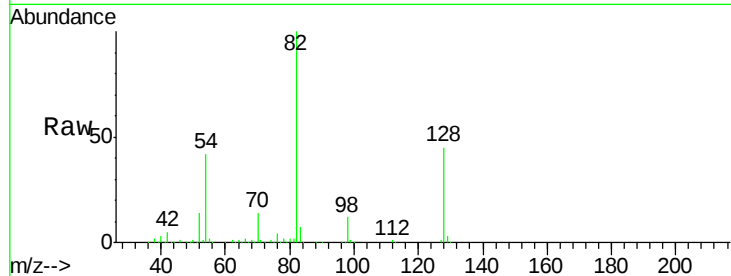
Tot Ion: 82 Resp: 598370

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

138 0.0 14.6 22.0#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

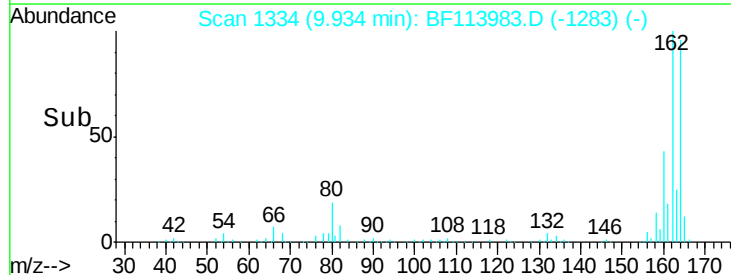
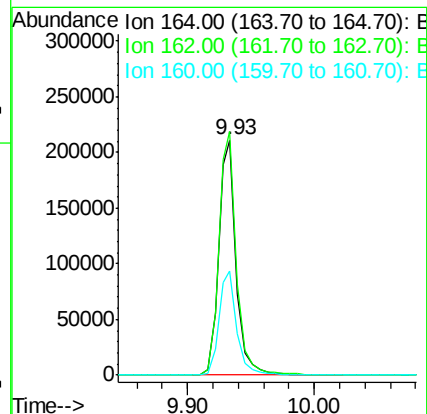
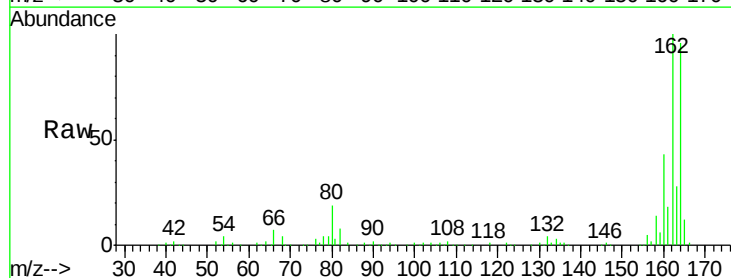
Tgt Ion:164 Resp: 203628

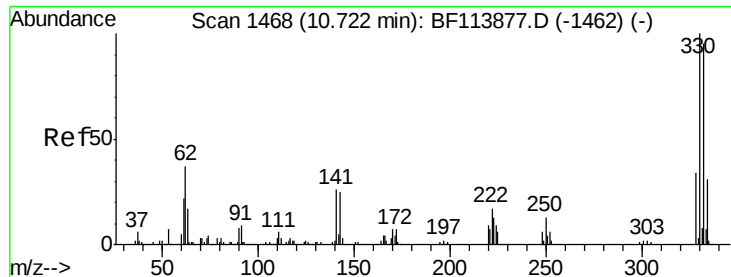
Ion Ratio Lower Upper

164 100

162 103.7 81.1 121.7

160 44.1 35.8 53.6

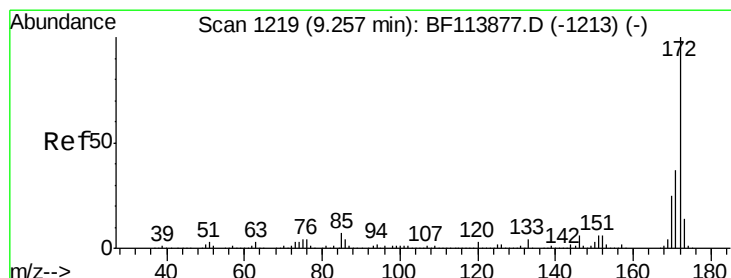
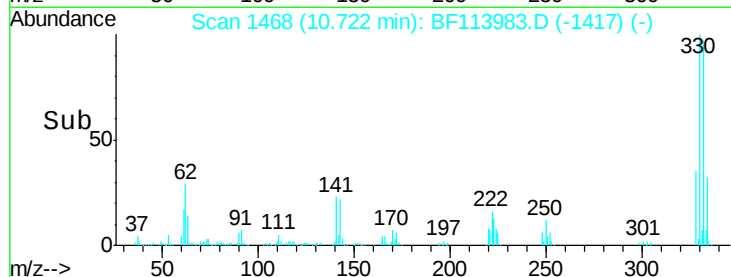
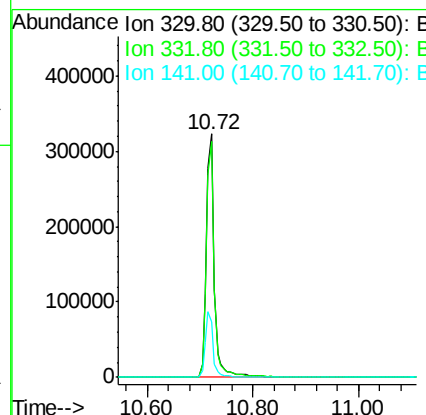
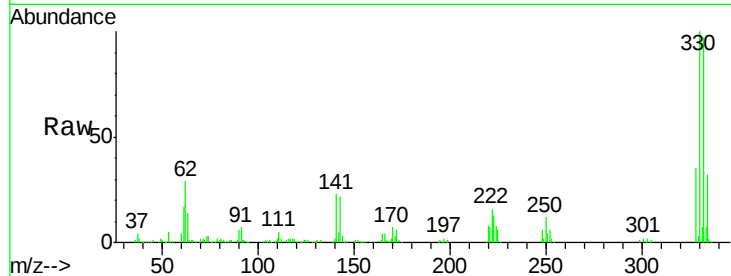




#42  
 2,4,6-Tribromophenol  
 Concen: 138.214 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. 0.00 min  
 Lab File: BF113983.D  
 Acq: 25 Apr 2019 17:50

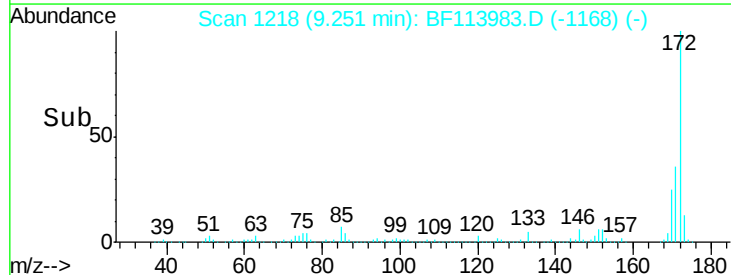
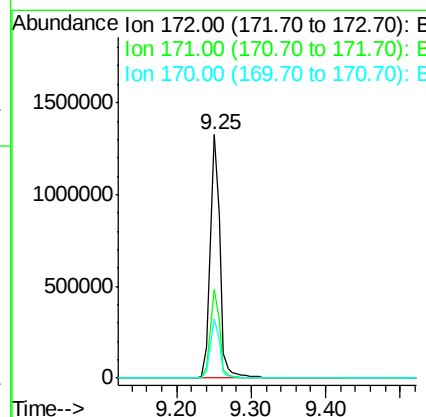
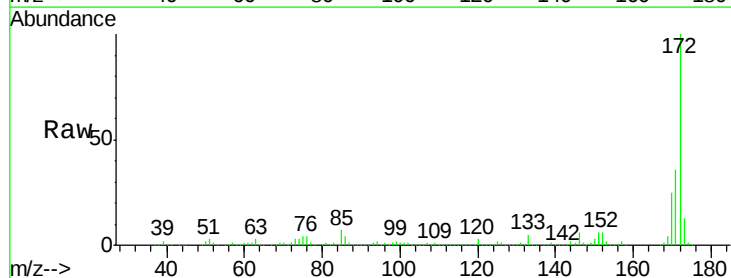
Instrument :  
 BNA\_F  
 ClientSampled :

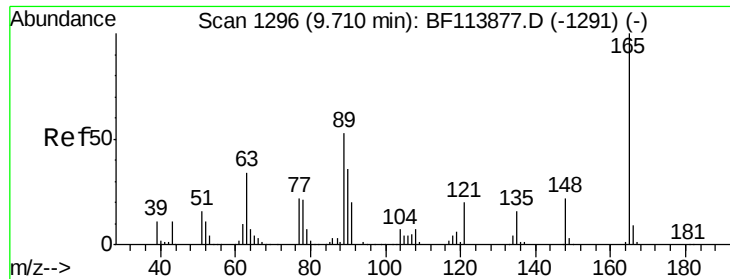
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 77.5  | 116.3 |
| 141     | 27.2  | 22.2  | 33.2  |



#45  
 2-Fluorobiphenyl  
 Concen: 93.892 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.00 min  
 Lab File: BF113983.D  
 Acq: 25 Apr 2019 17:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.4  | 44.0  |
| 170     | 24.5  | 19.9  | 29.9  |





#51

2,6-Dinitrotoluene

Concen: 8.425 ng

RT: 9.93 min Scan# 1334

Delta R.T. 0.22 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

Instrument :

BNA\_F

ClientSampleId :

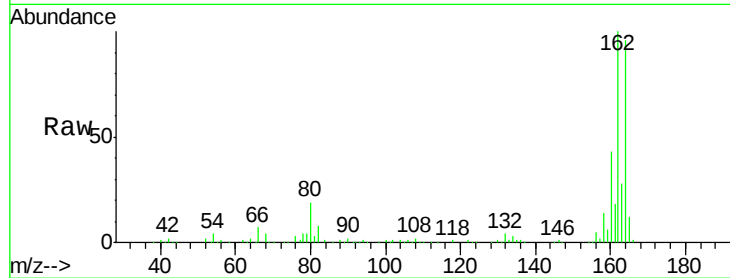
Tot Ion:165 Resp: 26619

Ion Ratio Lower Upper

165 100

63 1.4 33.8 50.8#

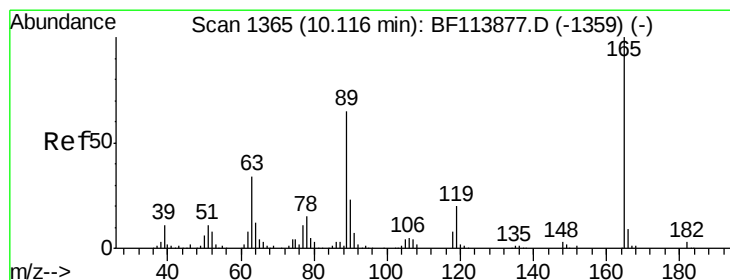
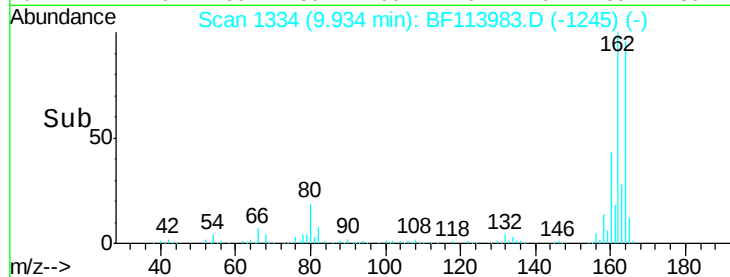
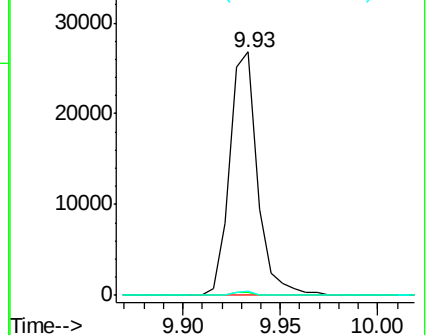
89 1.7 38.2 57.2#



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: 6.675 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.18 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

Tgt Ion:165 Resp: 26619

Ion Ratio Lower Upper

165 100

63 1.4 27.4 41.0#

89 1.7 51.8 77.6#

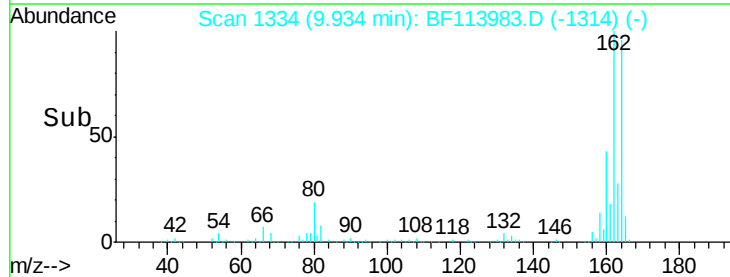
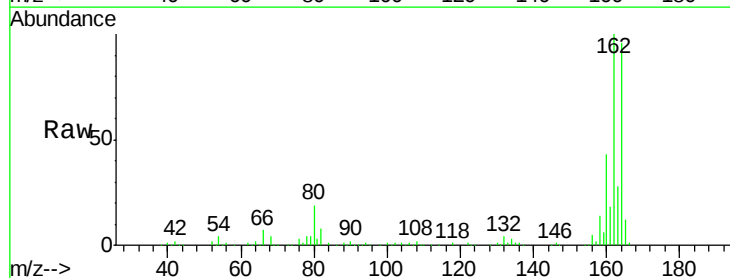
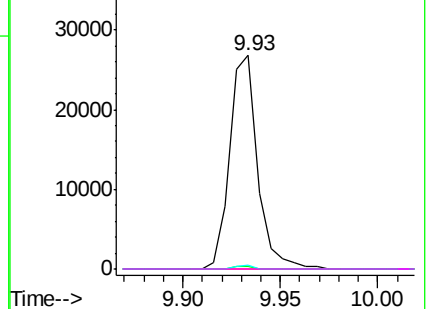
182 0.0 2.2 3.2#

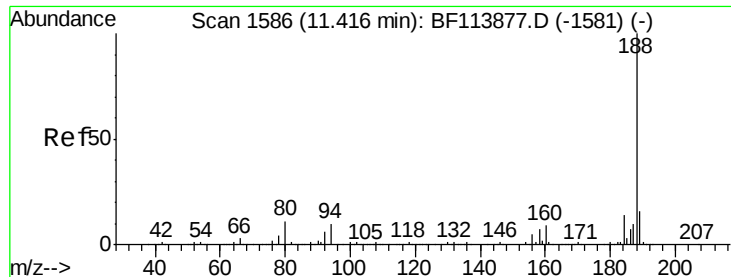
Abundance Ion 165.00 (164.70 to 165.70): E

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

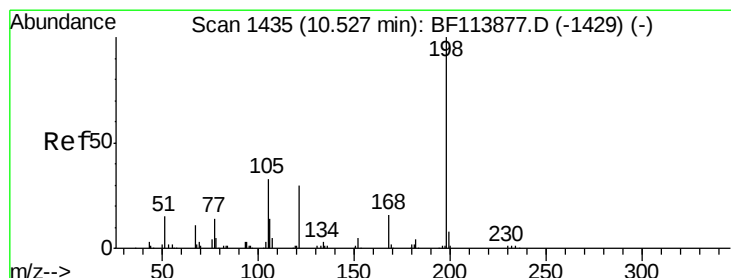
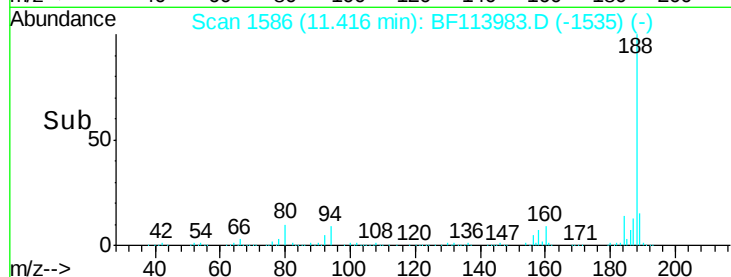
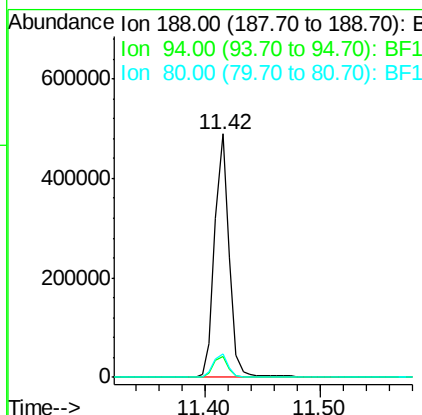
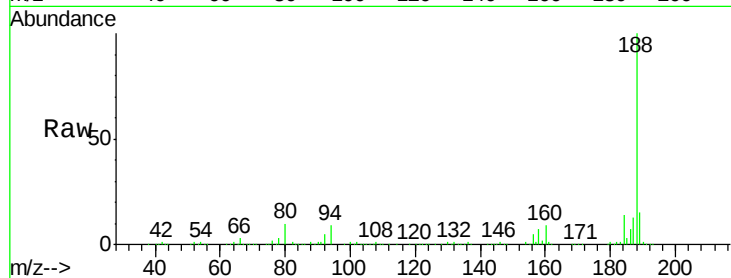




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: BF113983.D  
Acq: 25 Apr 2019 17:50

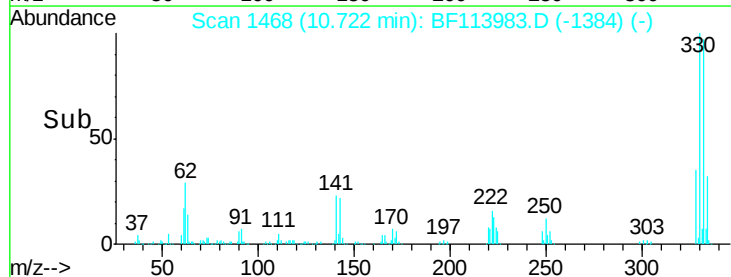
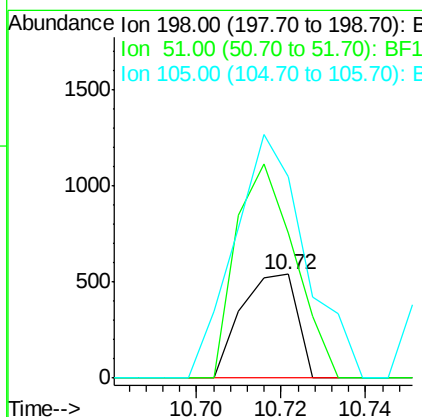
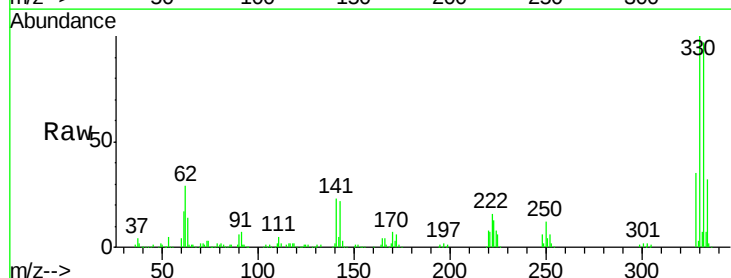
Instrument :  
BNA\_F  
ClientSampleId :

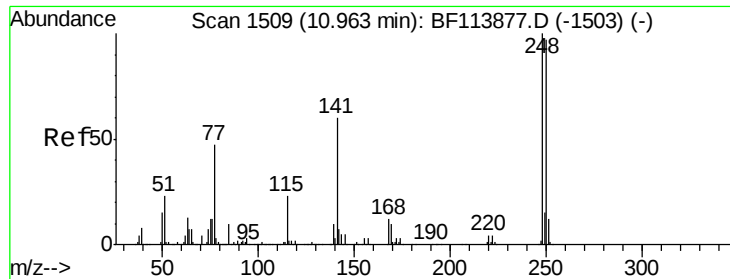
Tot Ion:188 Resp: 426794  
Ion Ratio Lower Upper  
188 100  
94 8.7 8.2 12.4  
80 9.7 9.0 13.6



#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.524 ng  
RT: 10.72 min Scan# 1468  
Delta R.T. 0.19 min  
Lab File: BF113983.D  
Acq: 25 Apr 2019 17:50

Tgt Ion:198 Resp: 497  
Ion Ratio Lower Upper  
198 100  
51 140.1 11.1 51.1#  
105 193.7 20.7 60.7#

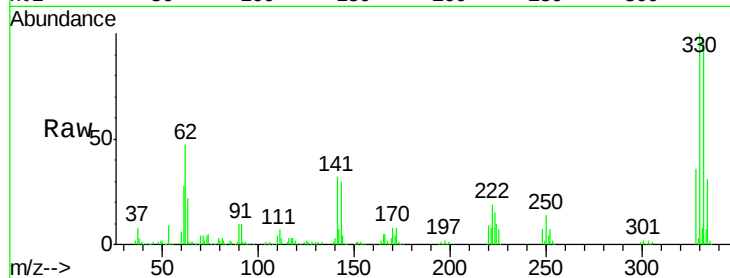




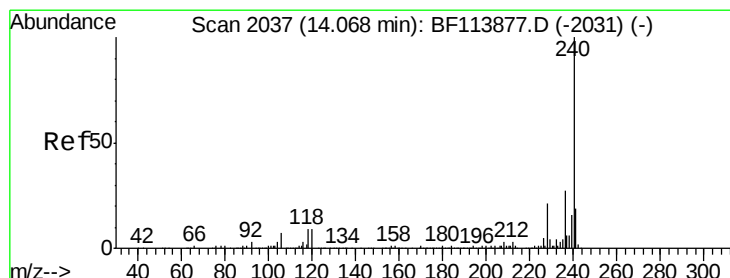
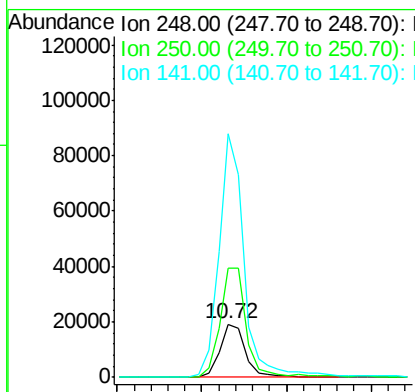
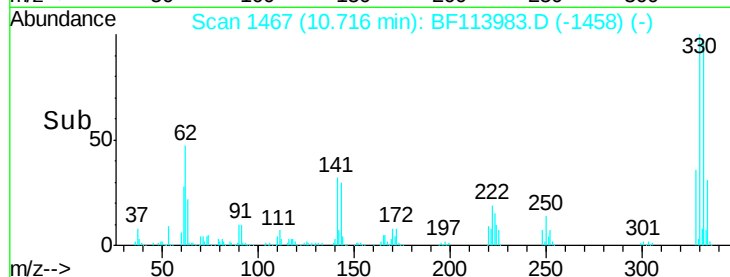
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.998 ng  
 RT: 10.72 min Scan# 1467  
 Delta R.T. -0.25 min  
 Lab File: BF113983.D  
 Acq: 25 Apr 2019 17:50

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 20615  
 Ion Ratio Lower Upper  
 248 100  
 250 206.1 75.8 113.6#  
 141 460.5 50.2 75.4#

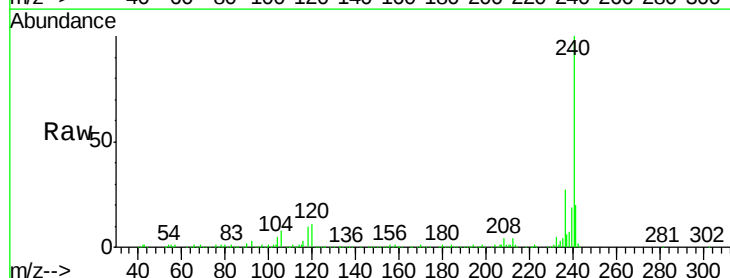


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

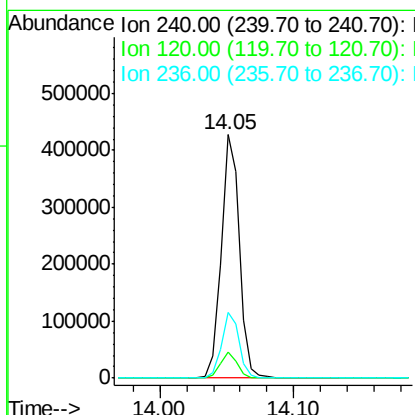
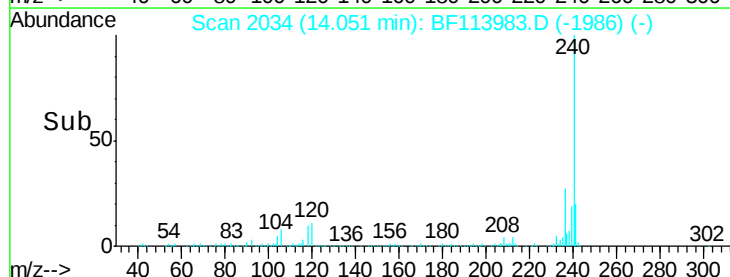


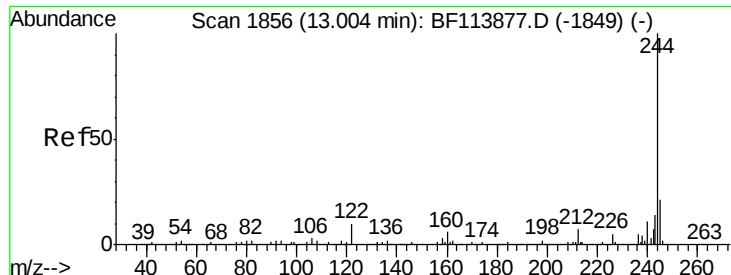
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.05 min Scan# 2034  
 Delta R.T. -0.02 min  
 Lab File: BF113983.D  
 Acq: 25 Apr 2019 17:50

Tgt Ion:240 Resp: 410540  
 Ion Ratio Lower Upper  
 240 100  
 120 10.7 9.3 13.9  
 236 27.0 21.2 31.8



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





#79

Terphenyl-d14

Concen: 85.217 ng

RT: 13.00 min Scan# 1856

Delta R.T. 0.00 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

Instrument :

BNA\_F

ClientSampleId :

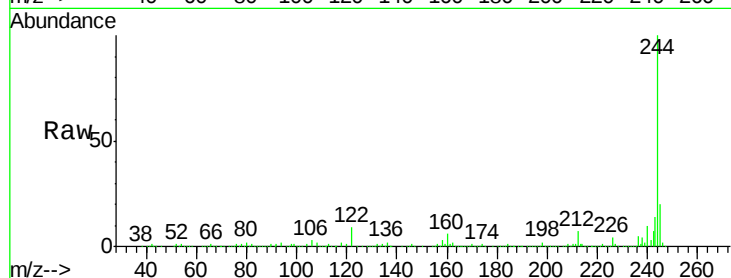
Tot Ion:244 Resp: 1706475

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

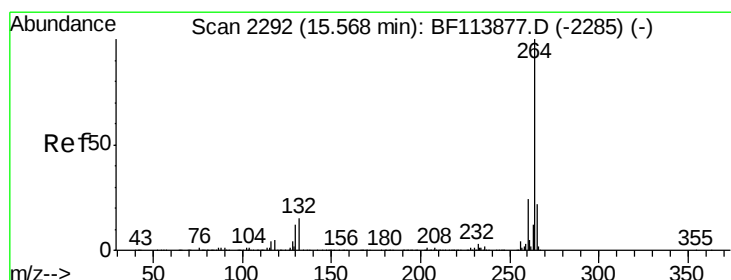
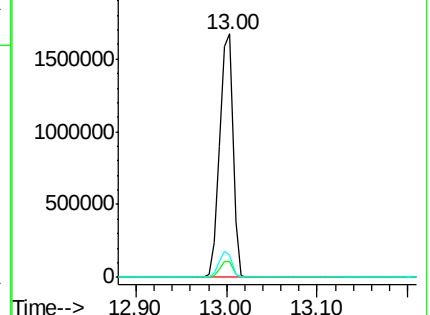
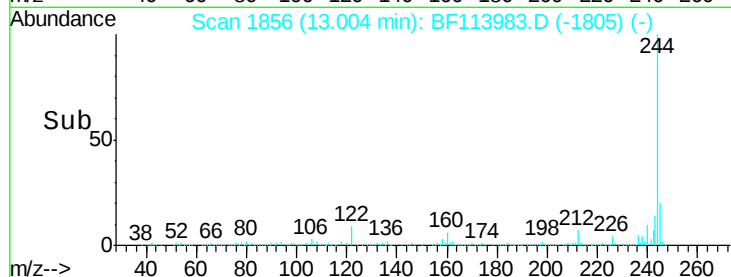
122 9.2 7.6 11.4



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2288

Delta R.T. -0.02 min

Lab File: BF113983.D

Acq: 25 Apr 2019 17:50

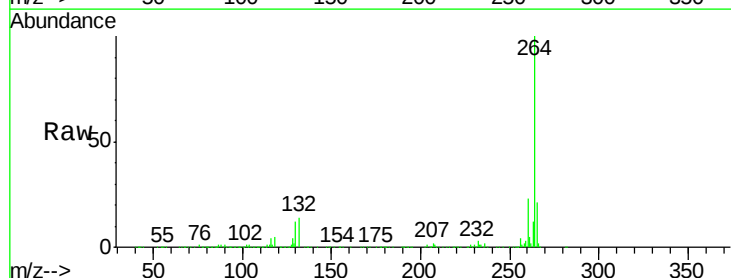
Tgt Ion:264 Resp: 430370

Ion Ratio Lower Upper

264 100

260 22.9 18.9 28.3

265 20.6 17.3 25.9



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

