

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF112818\  
 Data File : BF111071.D  
 Acq On : 29 Nov 2018 3:59  
 Operator : JU/SJ  
 Sample : J6078-05  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 112618-JETT-F-U-M

Quant Time: Nov 29 06:00:43 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF112618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 27 15:32:10 2018  
 Response via : Initial Calibration

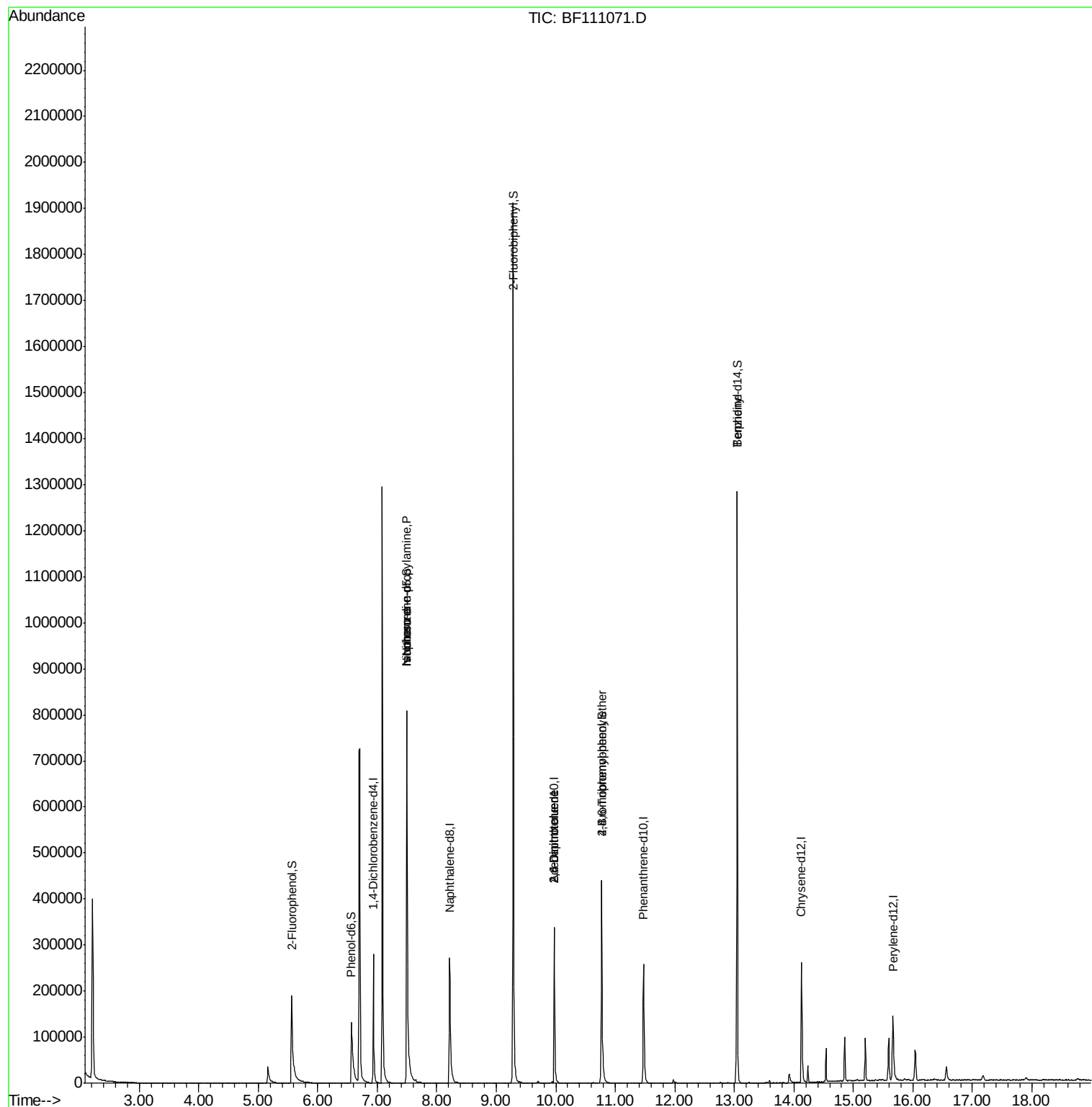
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.93  | 152  | 49188    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.22  | 136  | 203548   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.97  | 164  | 85033    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.47 | 188  | 135904   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.13 | 240  | 115065   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.66 | 264  | 95780    | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 122064   | 41.15  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.57  | 99   | 99518    | 25.75  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.50  | 82   | 341159   | 95.92  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.77 | 330  | 68392    | 80.99  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.29  | 172  | 620127   | 105.66 | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.05 | 244  | 453616   | 76.74  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.50  | 70   | 44901    | 17.833 | ng    | # 80     |
| 25) Isophorone                 | 7.50  | 82   | 341159   | 58.476 | ng    | # 67     |
| 51) 2,6-Dinitrotoluene         | 9.97  | 165  | 10549    | 7.598  | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 9.97  | 165  | 10549    | 5.856  | ng    | # 17     |
| 67) 4-Bromophenyl-phenylether  | 10.77 | 248  | 4265     | 2.882  | ng    | # 1      |
| 77) Benzidine                  | 13.05 | 184  | 5968     | 2.028  | ng    | 97       |

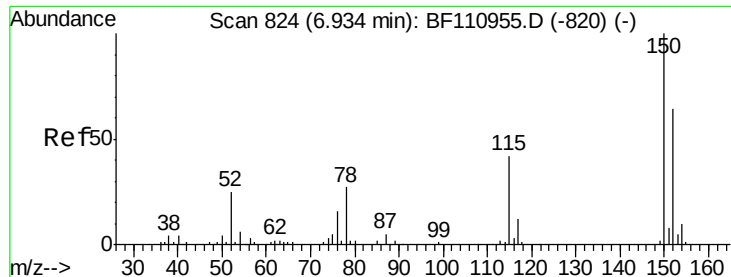
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF112818\  
Data File : BF111071.D  
Acq On : 29 Nov 2018 3:59  
Operator : JU/SJ  
Sample : J6078-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
112618-JETT-F-U-M

Quant Time: Nov 29 06:00:43 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF112618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 27 15:32:10 2018  
Response via : Initial Calibration



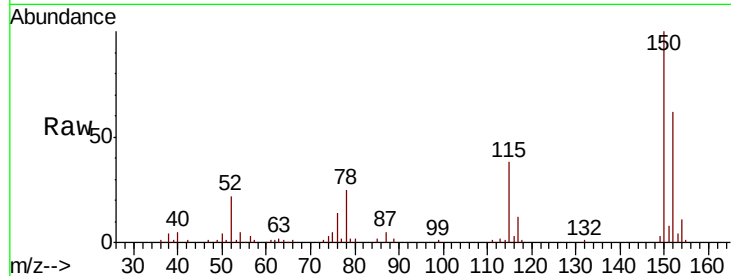


#1

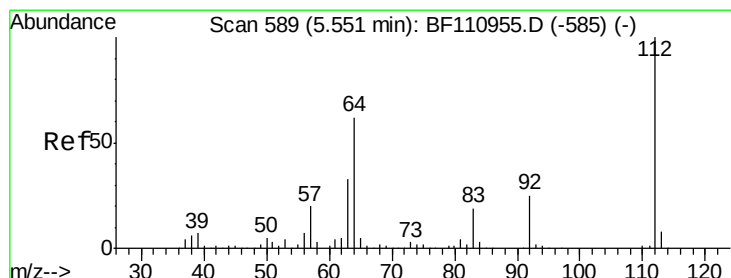
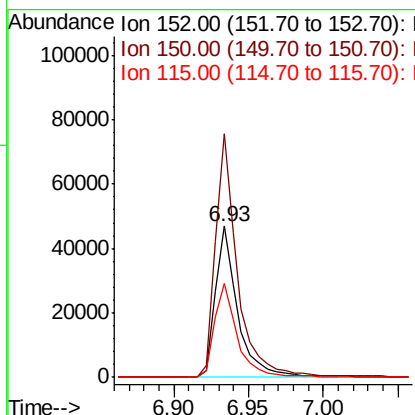
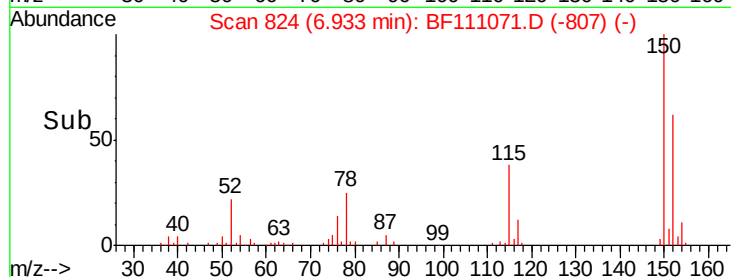
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.93 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

Instrument :  
BNA\_F  
ClientSampleId :  
112618-JETT-F-U-M

Tgt Ion:152 Resp: 49188  
Ion Ratio Lower Upper  
152 100  
150 161.2 122.7 184.1  
115 61.9 49.1 73.7



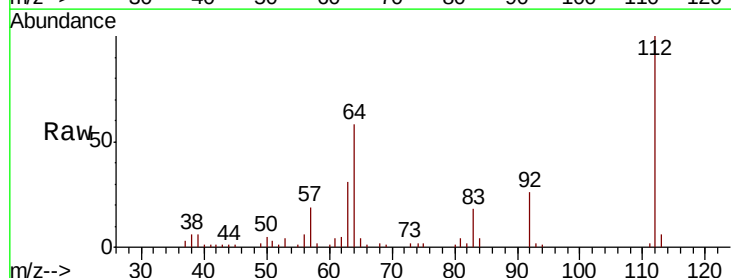
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



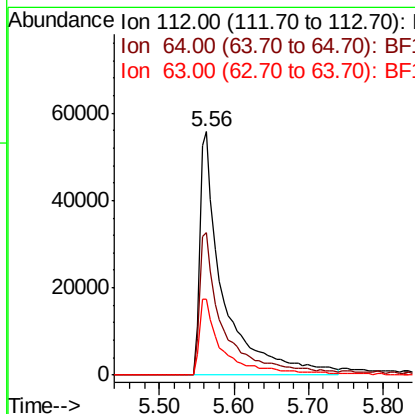
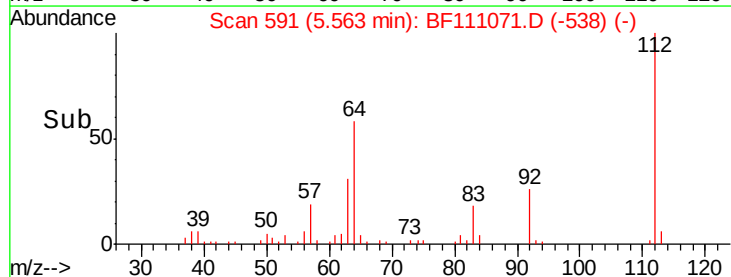
#5

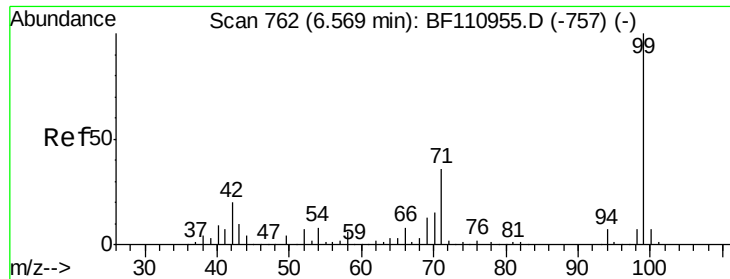
2-Fluorophenol  
Concen: 41.152 ng  
RT: 5.56 min Scan# 591  
Delta R.T. 0.01 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

Tgt Ion:112 Resp: 122064  
Ion Ratio Lower Upper  
112 100  
64 58.4 44.1 66.1  
63 31.3 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: 25.746 ng

RT: 6.57 min Scan# 762

Delta R.T. -0.00 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

Instrument :

BNA\_F

ClientSampleId :

112618-JETT-F-U-M

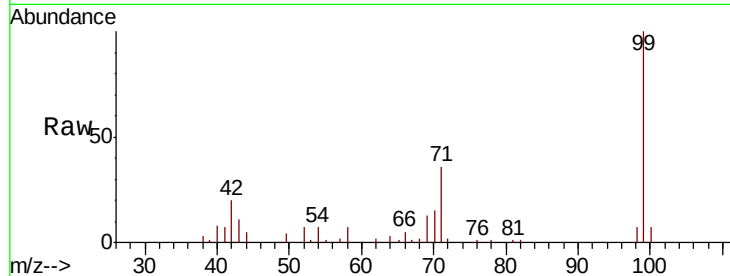
Tgt Ion: 99 Resp: 99518

Ion Ratio Lower Upper

99 100

42 20.0 15.8 23.6

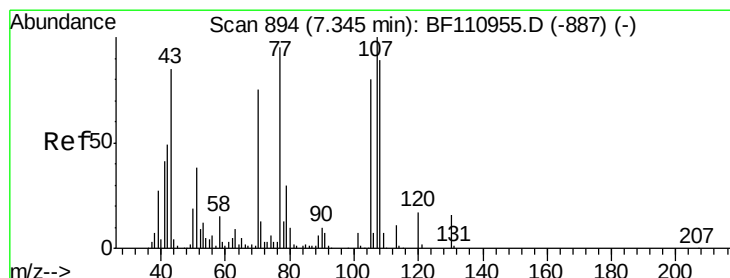
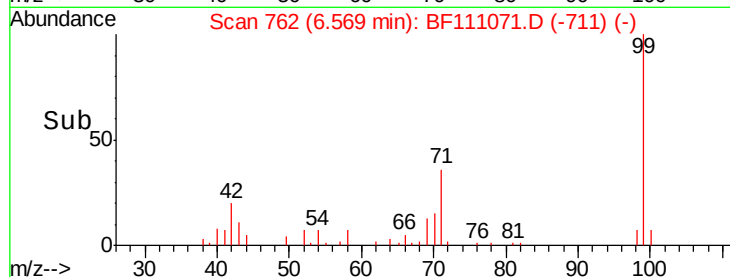
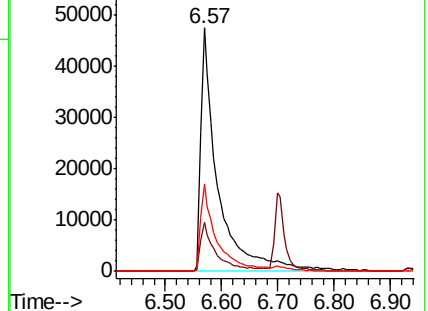
71 36.0 28.0 42.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 17.833 ng

RT: 7.50 min Scan# 920

Delta R.T. 0.15 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

Tgt Ion: 70 Resp: 44901

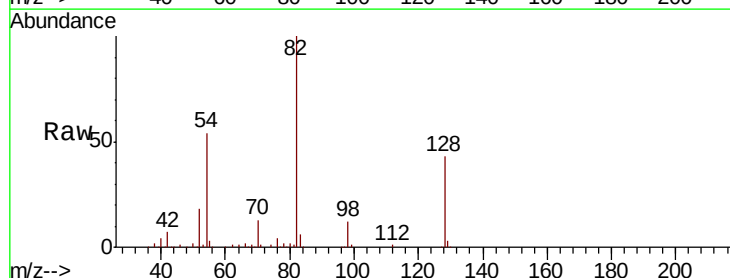
Ion Ratio Lower Upper

70 100

42 50.0 47.4 71.2

101 0.0 7.3 10.9#

130 2.3 16.2 24.2#

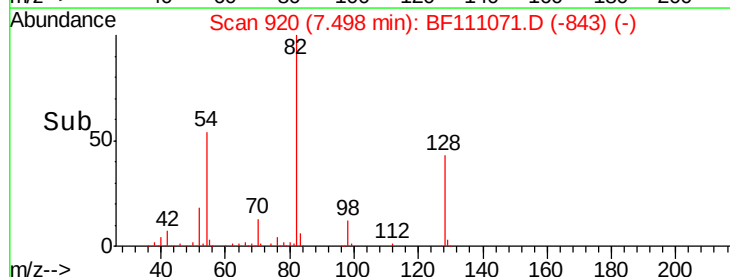
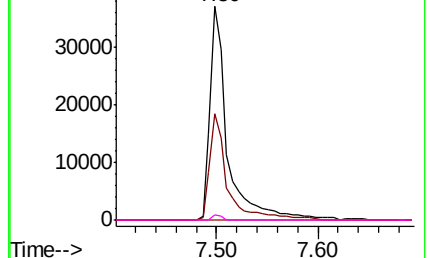


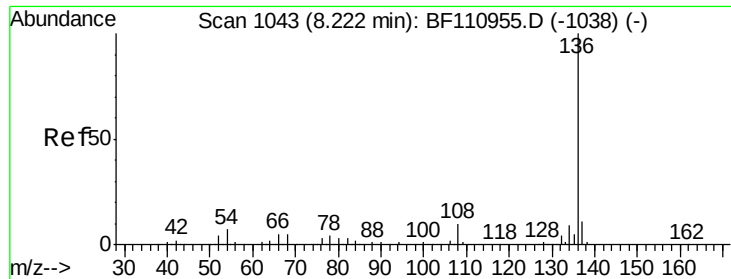
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.22 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

Instrument :

BNA\_F

ClientSampleId :

112618-JETT-F-U-M

Tgt Ion: 136 Resp: 203548

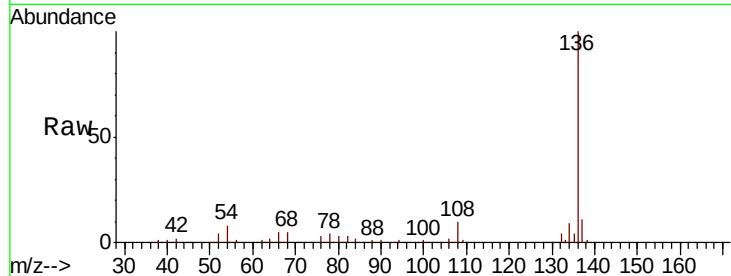
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 8.3 5.4 8.2#

68 4.8 4.2 6.2

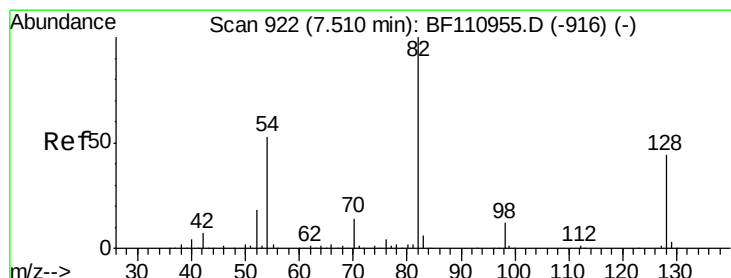
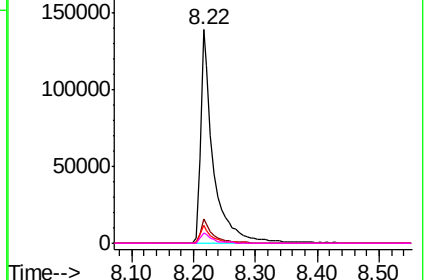
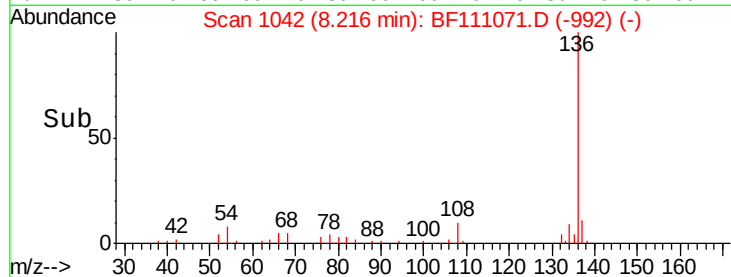


Abundance Ion 136.00 (135.70 to 136.70): E

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: 95.922 ng

RT: 7.50 min Scan# 920

Delta R.T. -0.01 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

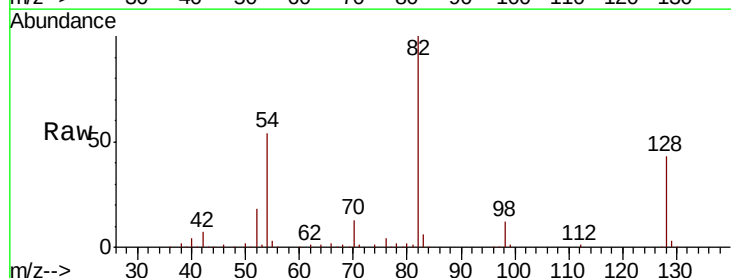
Tgt Ion: 82 Resp: 341159

Ion Ratio Lower Upper

82 100

128 43.0 34.2 51.2

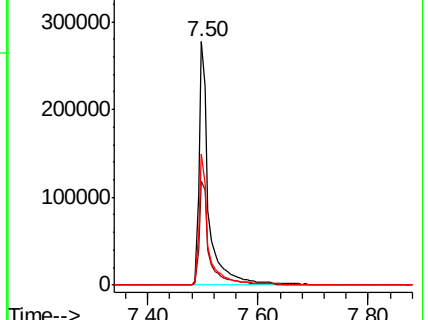
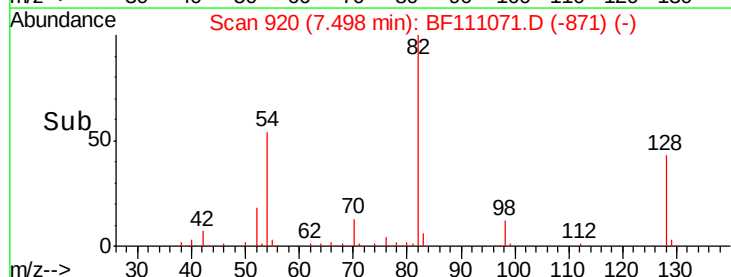
54 54.0 38.6 58.0

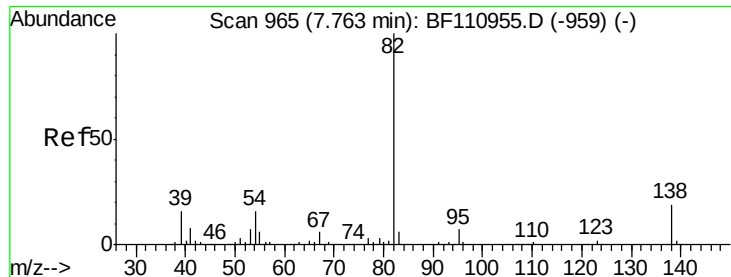


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

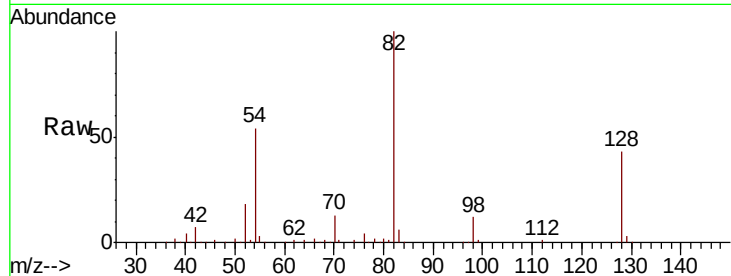




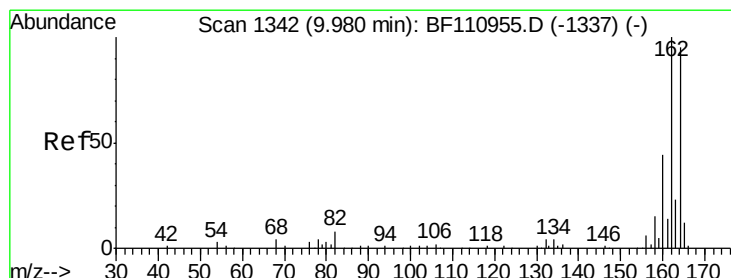
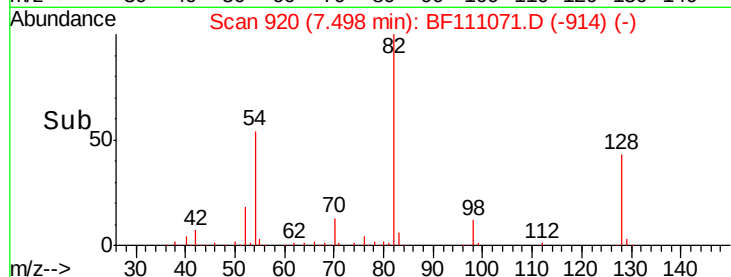
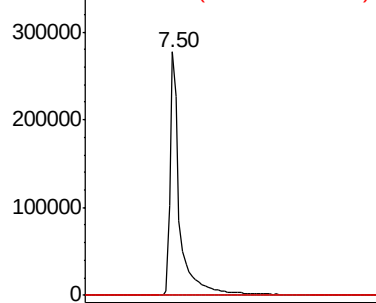
#25  
Isophorone  
Concen: 58.476 ng  
RT: 7.50 min Scan# 920  
Delta R.T. -0.26 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

Instrument :  
BNA\_F  
ClientSampleId :  
112618-JETT-F-U-M

Tgt Ion: 82 Resp: 341159  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.2 19.8#

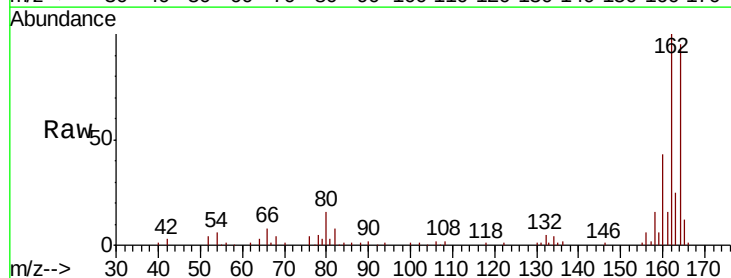


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

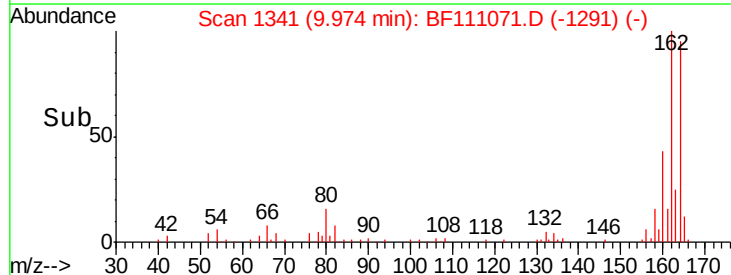
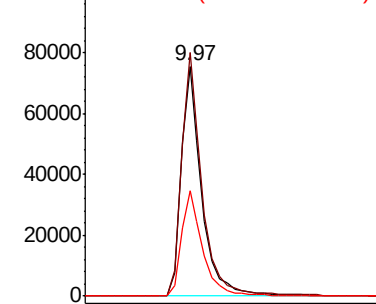


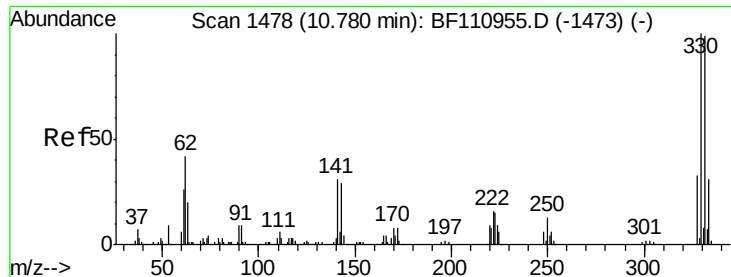
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.97 min Scan# 1341  
Delta R.T. -0.01 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

Tgt Ion: 164 Resp: 85033  
Ion Ratio Lower Upper  
164 100  
162 105.8 83.0 124.6  
160 45.6 37.0 55.6



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: 80.986 ng

RT: 10.77 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

Instrument :

BNA\_F

ClientSampleId :

112618-JETT-F-U-M

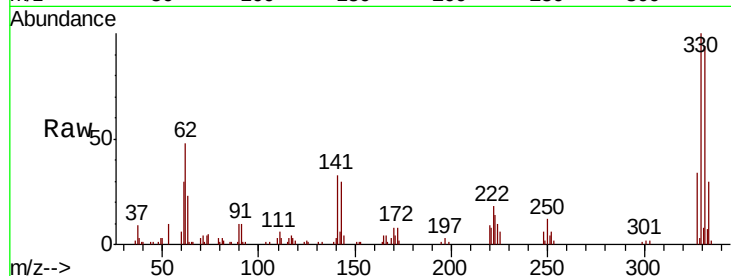
Tgt Ion:330 Resp: 68392

Ion Ratio Lower Upper

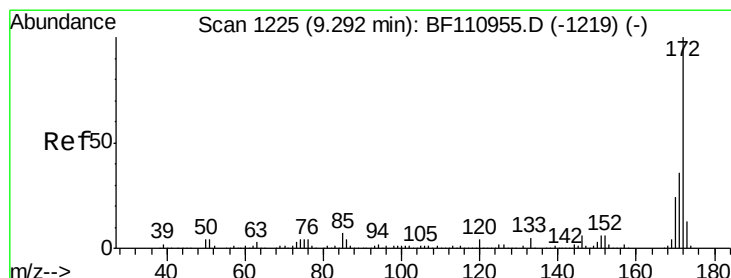
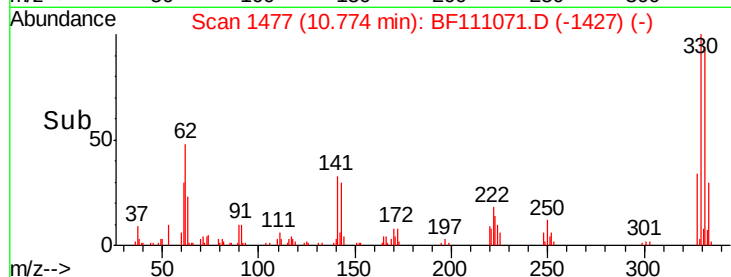
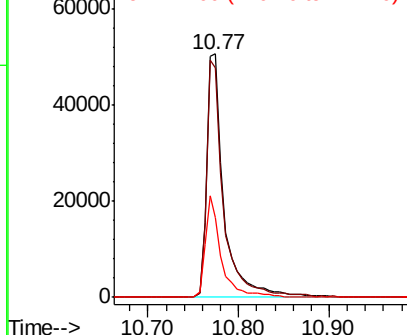
330 100

332 95.2 77.1 115.7

141 37.9 27.0 40.4



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: 105.656 ng

RT: 9.29 min Scan# 1224

Delta R.T. -0.01 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

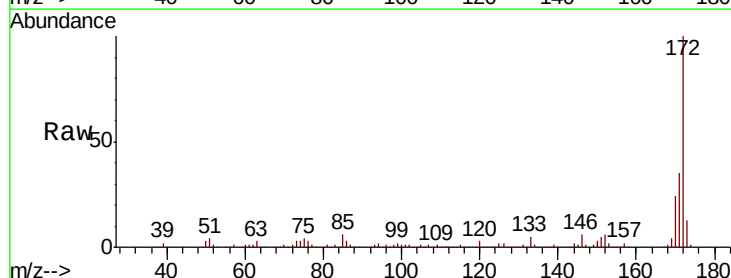
Tgt Ion:172 Resp: 620127

Ion Ratio Lower Upper

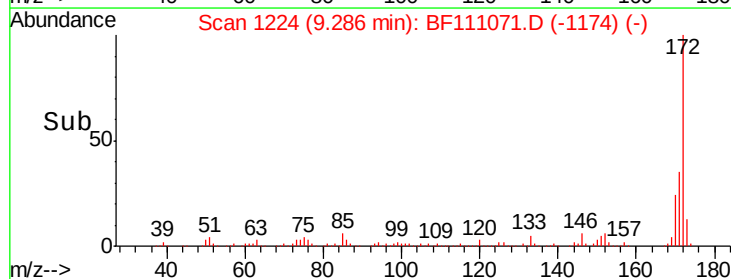
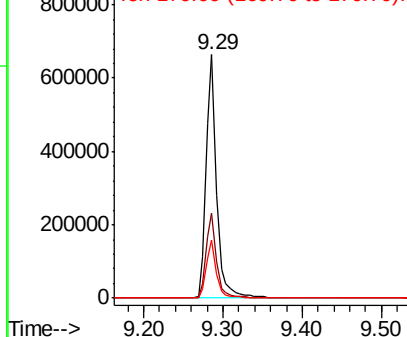
172 100

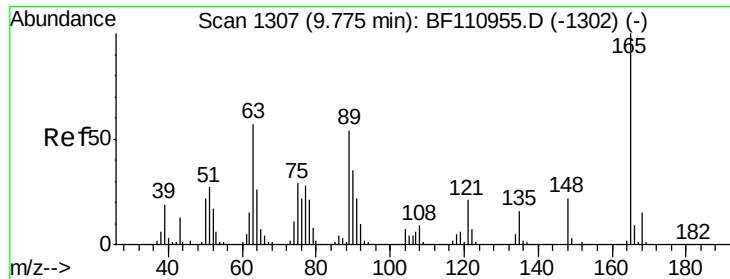
171 35.0 28.6 43.0

170 23.7 19.7 29.5



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: 7.598 ng

RT: 9.97 min Scan# 1341

Delta R.T. 0.20 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

Instrument :

BNA\_F

ClientSampleId :

112618-JETT-F-U-M

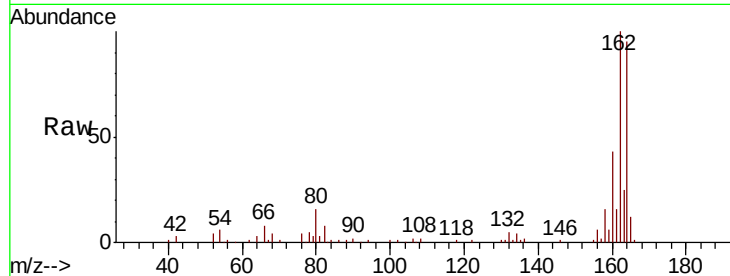
Tgt Ion:165 Resp: 10549

Ion Ratio Lower Upper

165 100

63 0.0 48.9 73.3#

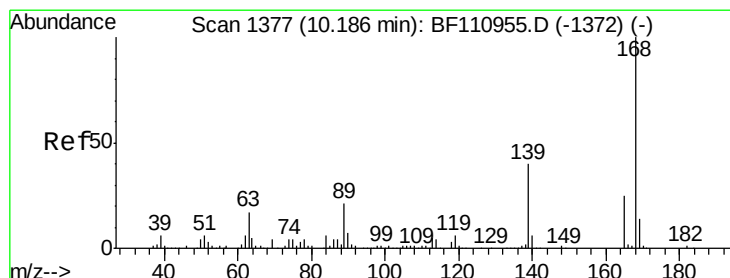
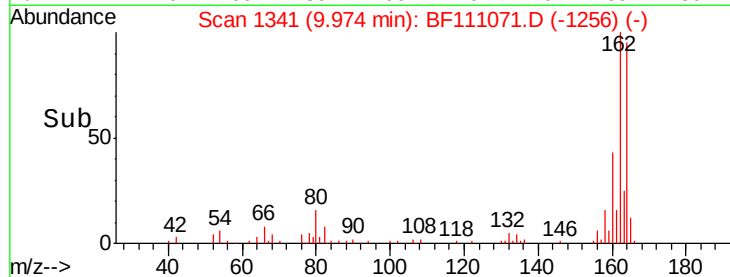
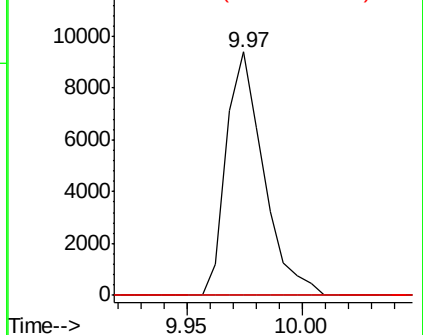
89 0.0 46.6 69.8#



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: 5.856 ng

RT: 9.97 min Scan# 1341

Delta R.T. -0.21 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

Tgt Ion:165 Resp: 10549

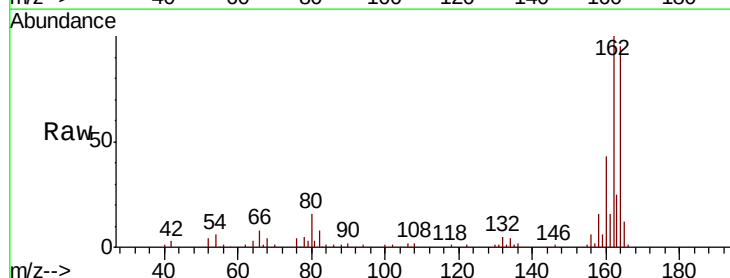
Ion Ratio Lower Upper

165 100

63 0.0 44.8 67.2#

89 0.0 62.2 93.4#

182 0.0 2.1 3.1#

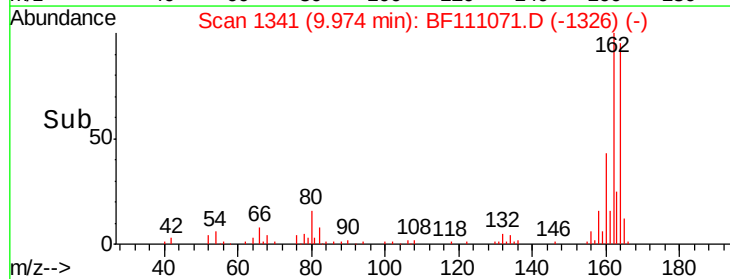
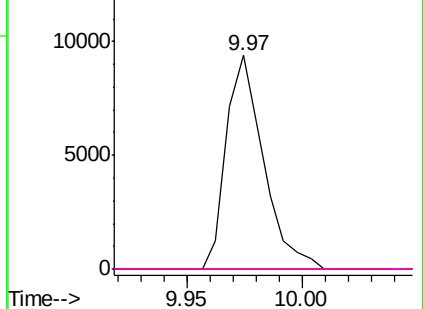


Abundance Ion 165.00 (164.70 to 165.70): E

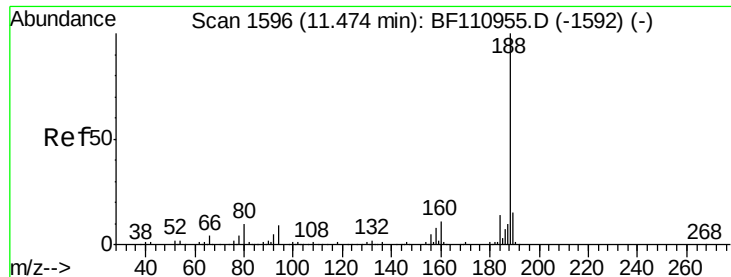
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



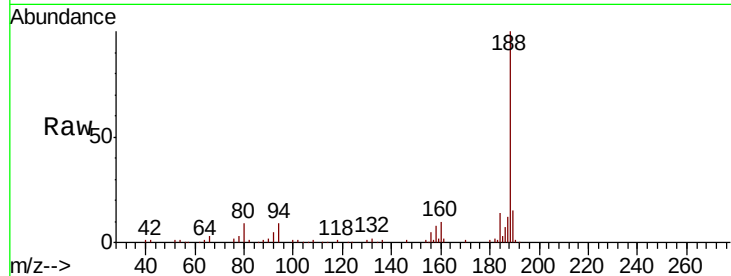




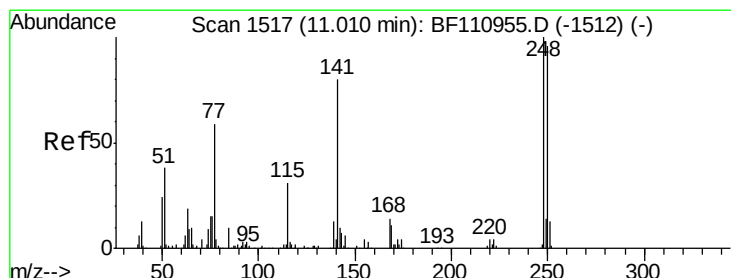
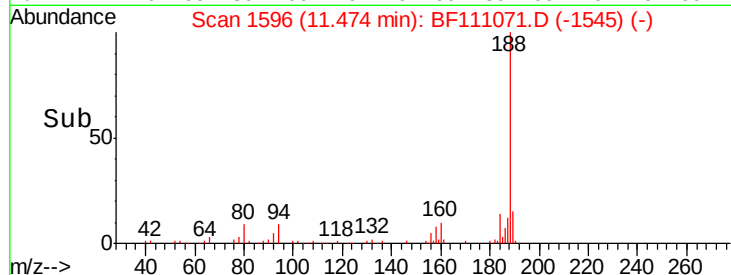
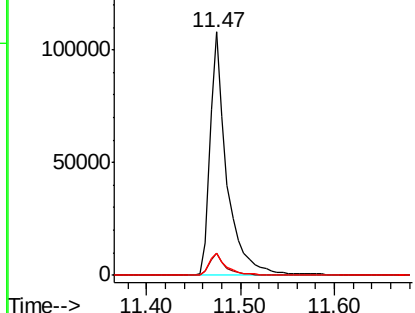
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.47 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

Instrument :  
BNA\_F  
ClientSampleId :  
112618-JETT-F-U-M

Tgt Ion:188 Resp: 135904  
Ion Ratio Lower Upper  
188 100  
94 9.0 7.2 10.8  
80 9.0 7.9 11.9

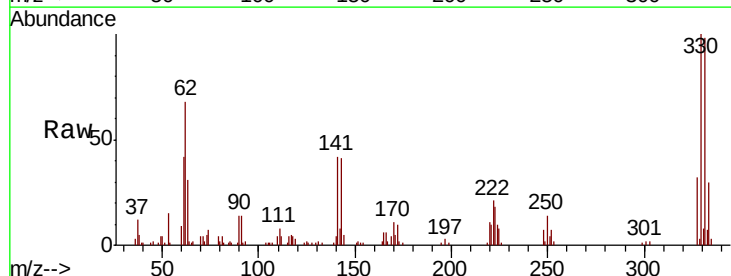


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

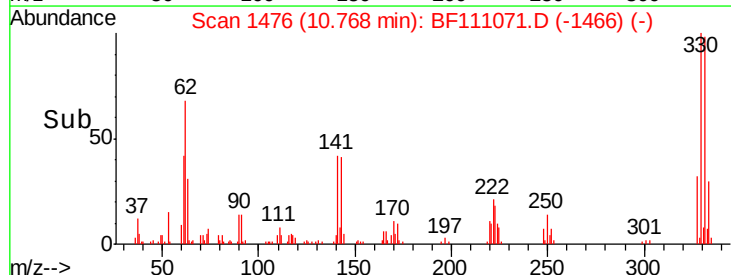
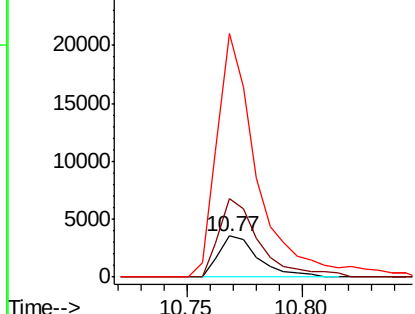


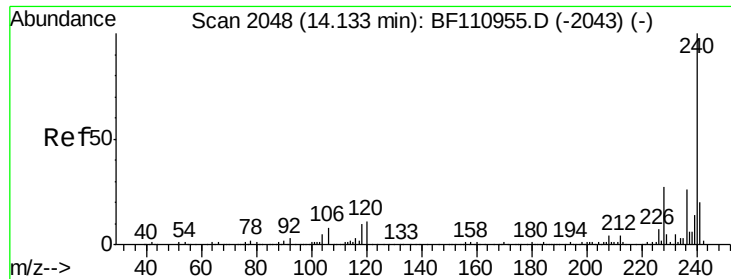
#67  
4-Bromophenyl-phenylether  
Concen: 2.882 ng  
RT: 10.77 min Scan# 1476  
Delta R.T. -0.24 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

Tgt Ion:248 Resp: 4265  
Ion Ratio Lower Upper  
248 100  
250 190.2 79.4 119.2#  
141 590.0 55.9 83.9#



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

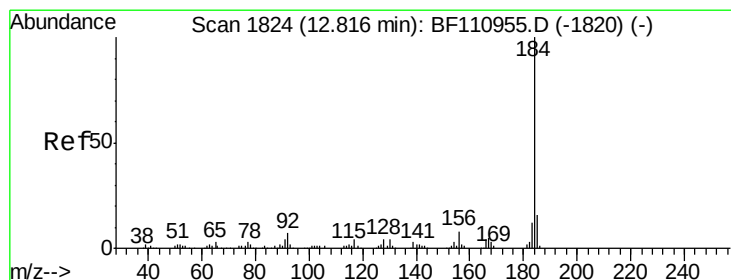
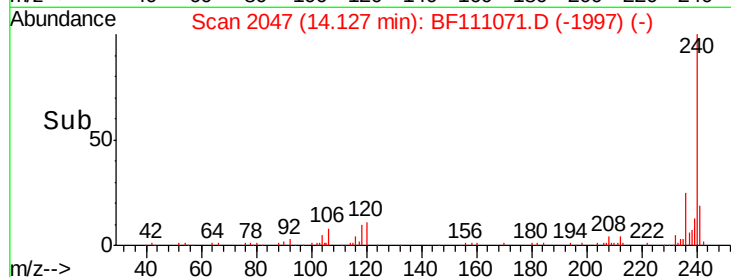
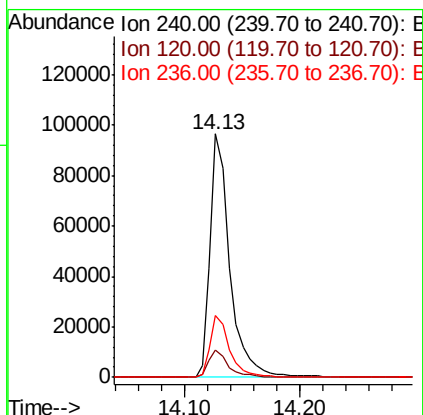
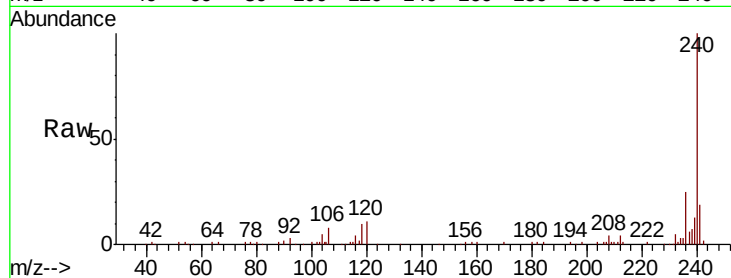




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.13 min Scan# 2047  
Delta R.T. -0.01 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

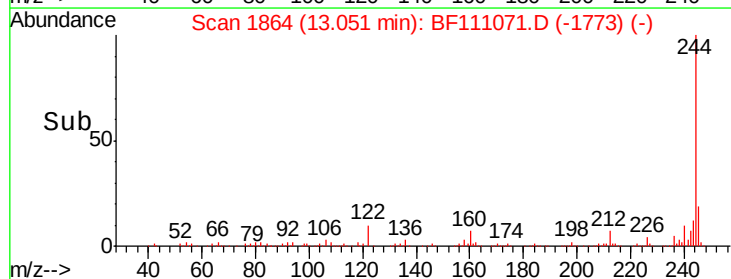
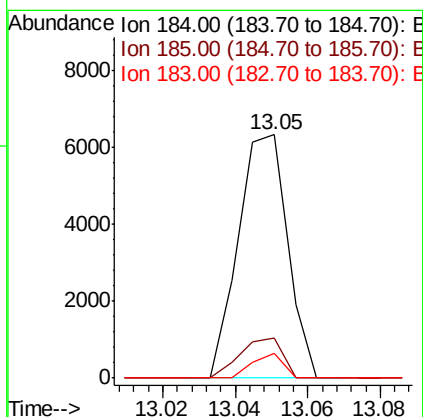
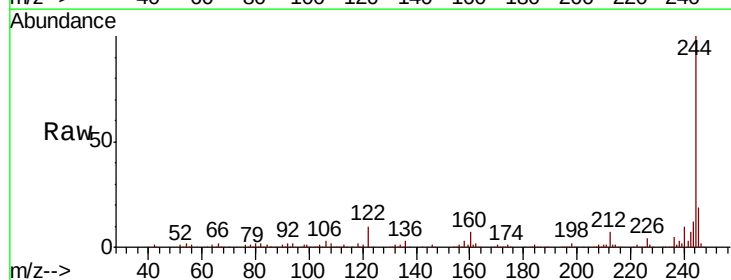
Instrument :  
BNA\_F  
ClientSampleId :  
112618-JETT-F-U-M

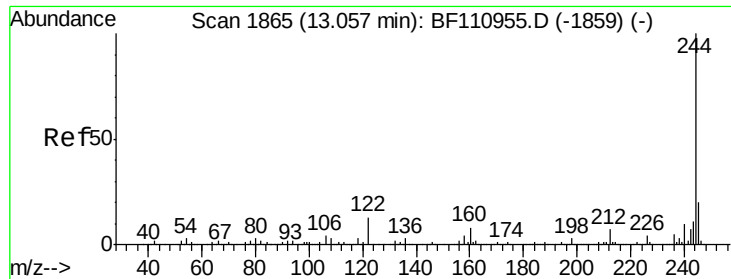
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.1  | 8.3   | 12.5  |
| 236     | 25.1  | 21.2  | 31.8  |



#77  
Benzidine  
Concen: 2.028 ng  
RT: 13.05 min Scan# 1864  
Delta R.T. 0.24 min  
Lab File: BF111071.D  
Acq: 29 Nov 2018 3:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 16.3  | 13.4  | 20.2  |
| 183     | 10.0  | 9.4   | 14.2  |





#79

Terphenyl-d14

Concen: 76.742 ng

RT: 13.05 min Scan# 1864

Delta R.T. -0.01 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

Instrument :

BNA\_F

ClientSampleId :

112618-JETT-F-U-M

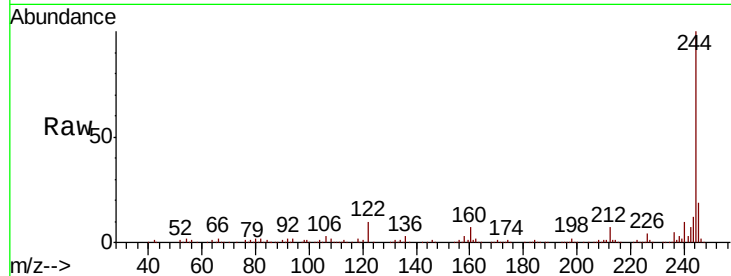
Tgt Ion:244 Resp: 453616

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

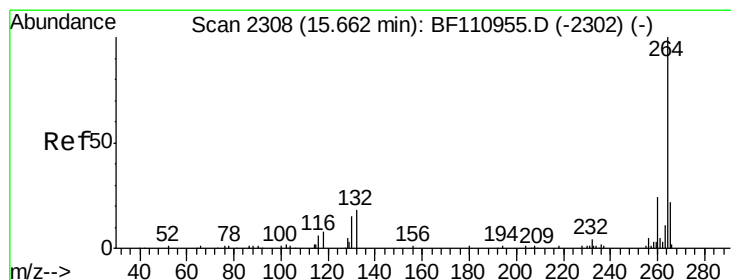
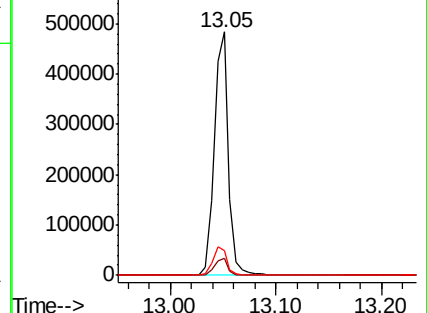
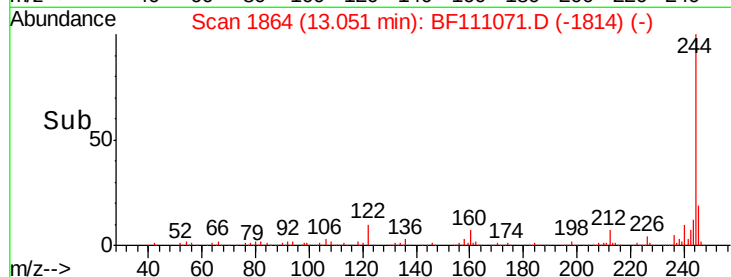
122 10.3 8.7 13.1



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: 15.66 min Scan# 2308

Delta R.T. -0.01 min

Lab File: BF111071.D

Acq: 29 Nov 2018 3:59

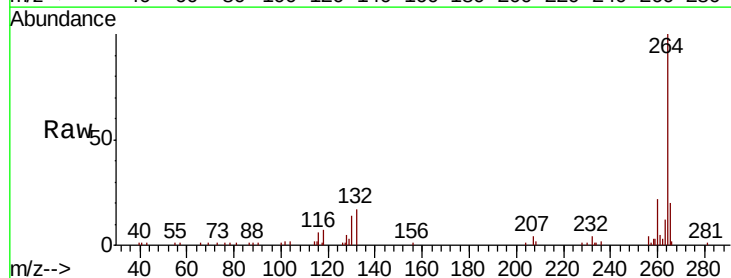
Tgt Ion:264 Resp: 95780

Ion Ratio Lower Upper

264 100

260 21.8 18.7 28.1

265 20.4 16.7 25.1



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

