

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112618\  
 Data File : BF110968.D  
 Acq On : 26 Nov 2018 17:20  
 Operator : JU/SJ  
 Sample : J6030-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 26 18:00:31 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF112618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 26 15:26:09 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.93  | 152  | 62765    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.22  | 136  | 265749   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.98  | 164  | 131337   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.47 | 188  | 216151   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.13 | 240  | 131664   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.67 | 264  | 132115   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

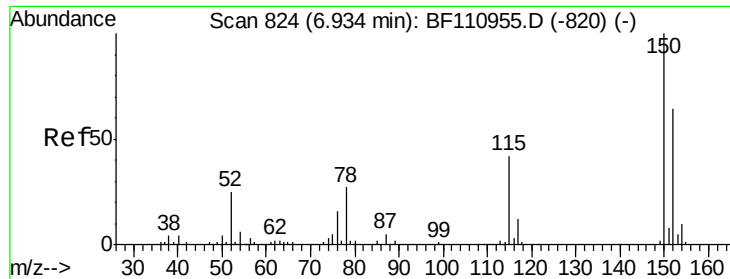
|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 5.56  | 112 | 304729 | 80.51  | ng | 0.01 |
| 7) Phenol-d6             | 6.59  | 99  | 263900 | 53.50  | ng | 0.02 |
| 23) Nitrobenzene-d5      | 7.51  | 82  | 354594 | 76.36  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.78 | 330 | 141219 | 108.27 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.29  | 172 | 658745 | 72.67  | ng | 0.00 |
| 79) Terphenyl-d14        | 13.06 | 244 | 533662 | 78.90  | ng | 0.00 |

## Target Compounds

|                                |       |     |         |           |    | Qvalue |
|--------------------------------|-------|-----|---------|-----------|----|--------|
| 4) n-Nitrosodimethylamine      | 3.53  | 42  | 4094    | 2.253     | ng | # 1    |
| 6) Aniline                     | 6.62  | 93  | 40315   | 6.612     | ng | # 80   |
| 9) Benzaldehyde                | 6.49  | 77  | 3293    | Below Cal |    | # 1    |
| 10) Phenol                     | 6.60  | 94  | 48990   | 8.820     | ng | # 83   |
| 11) bis(2-Chloroethyl)ether    | 6.62  | 93  | 40315   | 9.634     | ng | # 36   |
| 15) Benzyl Alcohol             | 7.10  | 79  | 47081   | 12.421    | ng | # 56   |
| 17) 2-Methylphenol             | 7.20  | 107 | 20399   | 5.720     | ng | # 80   |
| 20) 3+4-Methylphenols          | 7.36  | 107 | 97383   | 20.541    | ng | # 64   |
| 22) Acetophenone               | 7.35  | 105 | 231779  | 37.209    | ng | # 93   |
| 24) Nitrobenzene               | 7.62  | 77  | 49727   | 10.298    | ng | # 44   |
| 25) Isophorone                 | 7.51  | 82  | 350547  | 46.022    | ng | # 67   |
| 27) 2,4-Dimethylphenol         | 7.88  | 122 | 32266   | 9.107     | ng | # 99   |
| 28) bis(2-Chloroethoxy)methane | 7.98  | 93  | 21702   | 4.253     | ng | # 60   |
| 31) Naphthalene                | 8.26  | 128 | 3001696 | 240.963   | ng | # 98   |
| 32) Benzoic acid               | 8.02  | 122 | 118053  | 44.818    | ng | # 61   |
| 33) 4-Chloroaniline            | 8.26  | 127 | 417965  | 78.830    | ng | # 37   |
| 37) 2-Methylnaphthalene        | 8.93  | 142 | 101876  | 12.382    | ng | # 99   |
| 38) 1-Methylnaphthalene        | 9.03  | 142 | 97865   | 12.228    | ng | # 95   |
| 46) 1,1'-Biophenyl             | 9.40  | 154 | 36393   | 3.006     | ng | # 100  |
| 51) 2,6-Dinitrotoluene         | 9.66  | 165 | 5877    | 2.741     | ng | # 76   |
| 54) 2,4-Dinitrophenol          | 10.09 | 184 | 720     | 4.624     | ng | # 1    |
| 55) Dibenzofuran               | 10.19 | 168 | 82801   | 7.092     | ng | # 97   |
| 56) 4-Nitrophenol              | 10.06 | 139 | 1472    | 5.241     | ng | # 90   |
| 58) Fluorene                   | 10.53 | 166 | 67326   | 7.412     | ng | # 99   |
| 67) 4-Bromophenyl-phenylether  | 10.78 | 248 | 9380    | 3.985     | ng | # 1    |
| 71) Phenanthrene               | 11.50 | 178 | 213090  | 18.614    | ng | # 99   |
| 72) Anthracene                 | 11.50 | 178 | 213090  | 18.278    | ng | # 100  |

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



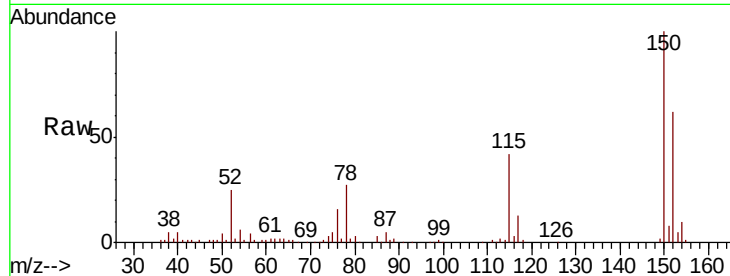


#1

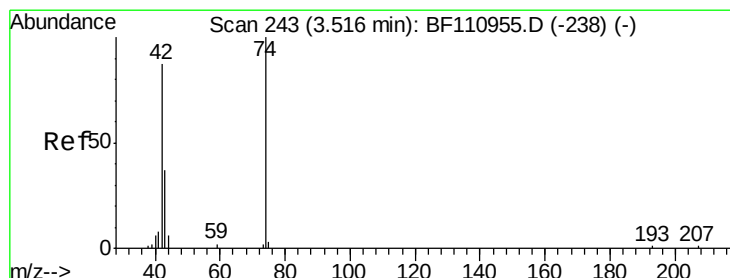
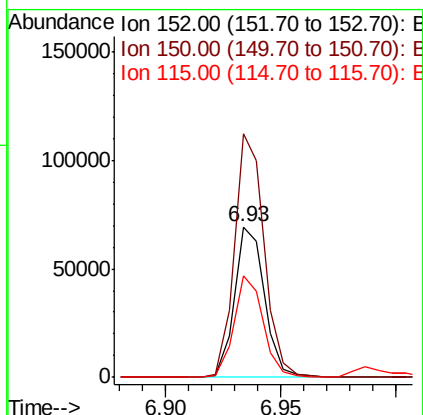
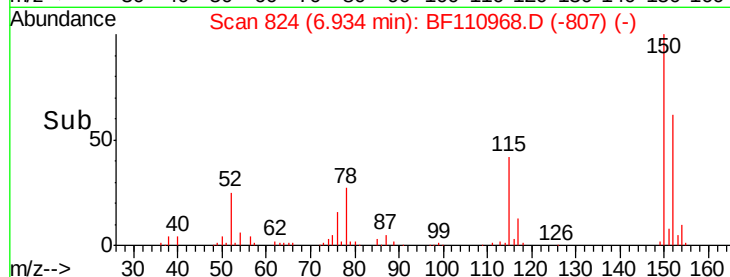
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.93 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 62765  
Ion Ratio Lower Upper  
152 100  
150 161.6 122.7 184.1  
115 67.7 49.1 73.7



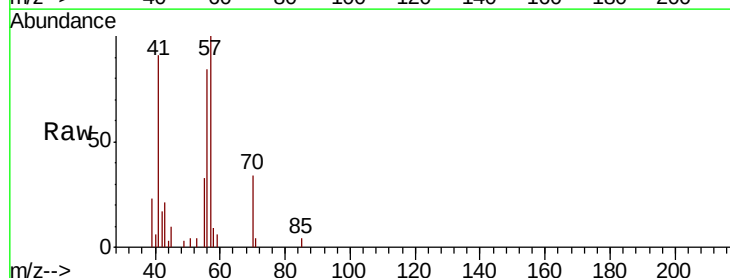
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



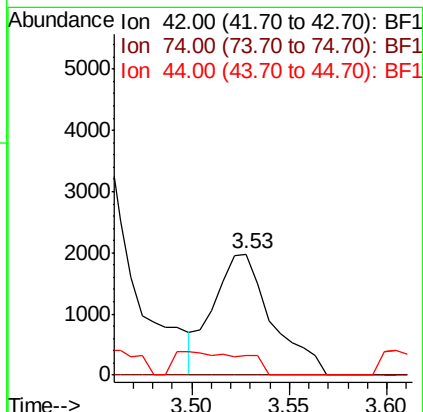
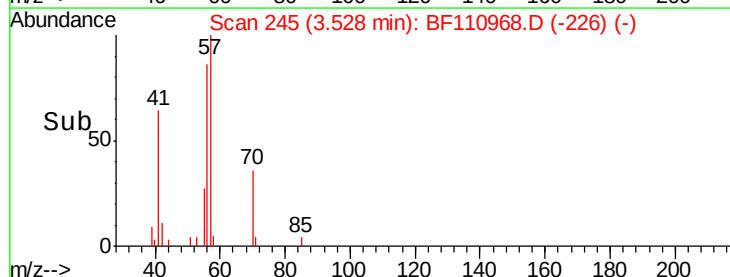
#4

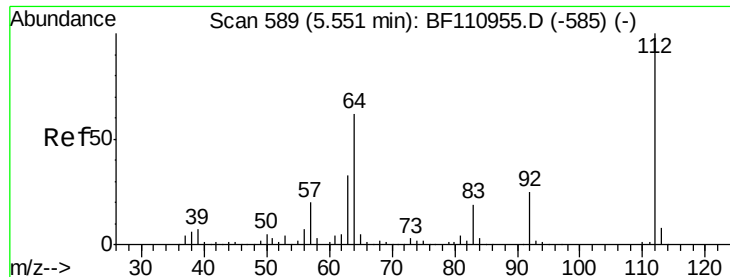
n-Nitrosodimethylamine  
Concen: 2.253 ng  
RT: 3.53 min Scan# 245  
Delta R.T. 0.01 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion: 42 Resp: 4094  
Ion Ratio Lower Upper  
42 100  
74 0.0 105.5 158.3#  
44 15.8 4.9 7.3#



Abundance Ion 42.00 (41.70 to 42.70): BF1  
Ion 74.00 (73.70 to 74.70): BF1  
Ion 44.00 (43.70 to 44.70): BF1

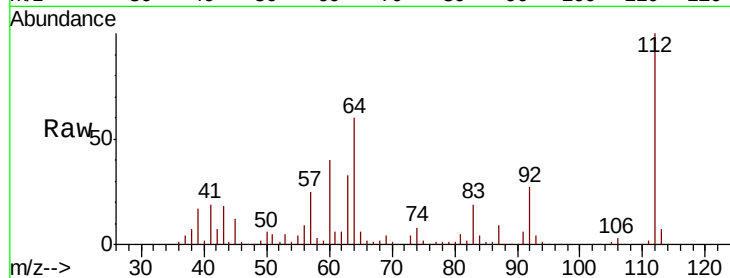




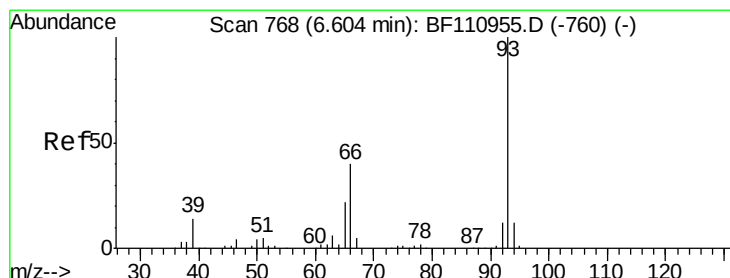
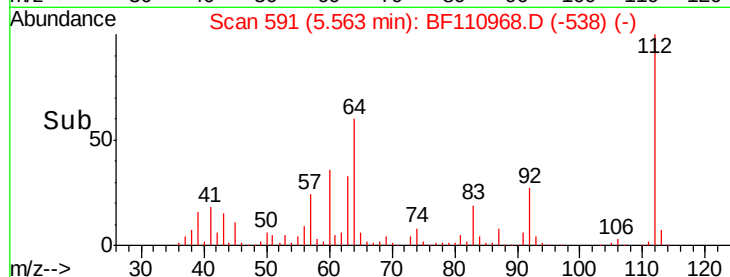
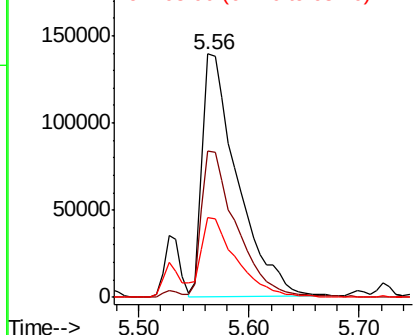
#5  
2-Fluorophenol  
Concen: 80.513 ng  
RT: 5.56 min Scan# 591  
Delta R.T. 0.01 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 112 Resp: 304729  
Ion Ratio Lower Upper  
112 100  
64 59.9 44.1 66.1  
63 32.9 23.7 35.5

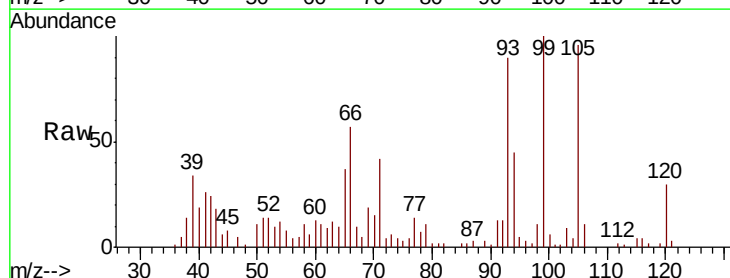


Abundance Ion 112.00 (111.70 to 112.70): BF1  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1

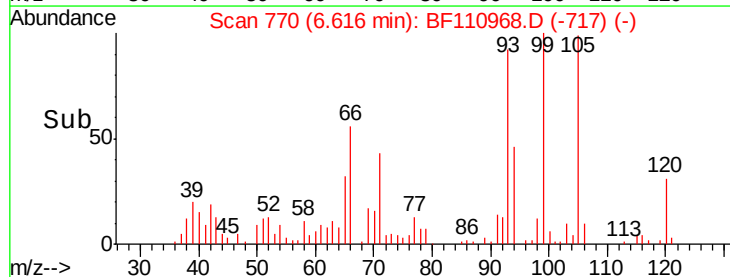
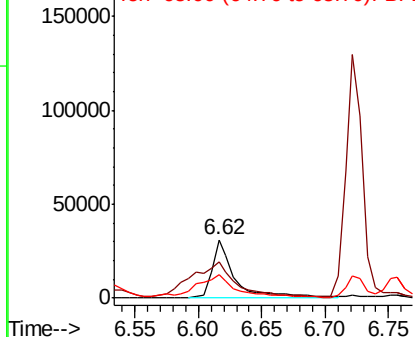


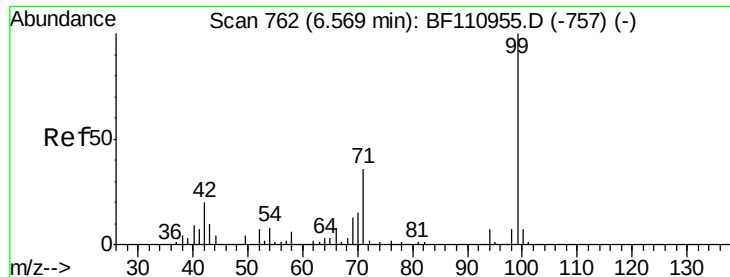
#6  
Aniline  
Concen: 6.612 ng  
RT: 6.62 min Scan# 770  
Delta R.T. 0.01 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion: 93 Resp: 40315  
Ion Ratio Lower Upper  
93 100  
66 63.2 67.4 101.0#  
65 41.2 41.0 61.4



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 53.504 ng

RT: 6.59 min Scan# 765

Delta R.T. 0.02 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

Instrument :

BNA\_F

ClientSampleId :

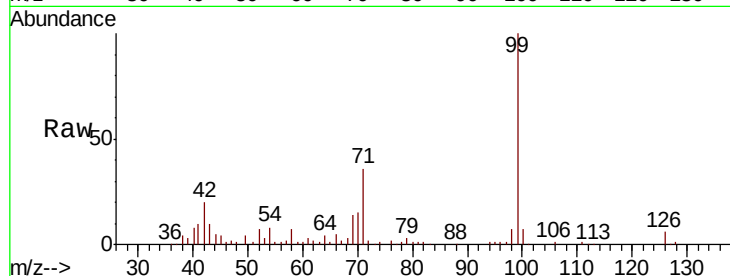
Tot Ion: 99 Resp: 263900

Ion Ratio Lower Upper

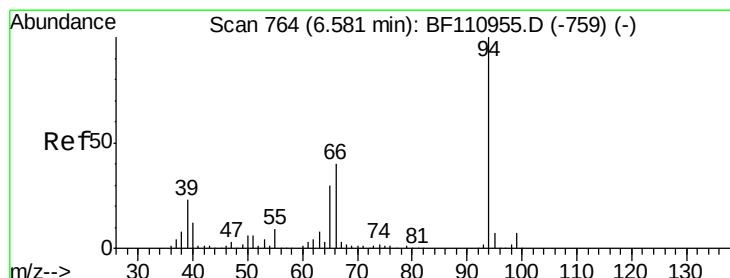
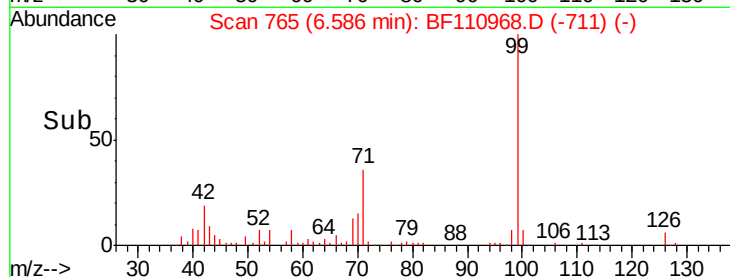
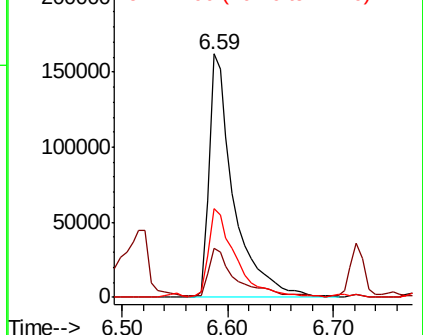
99 100

42 20.3 15.8 23.6

71 36.4 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



#10

Phenol

Concen: 8.820 ng

RT: 6.60 min Scan# 768

Delta R.T. 0.02 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

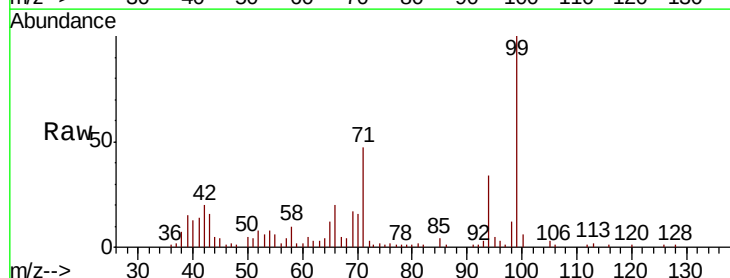
Tgt Ion: 94 Resp: 48990

Ion Ratio Lower Upper

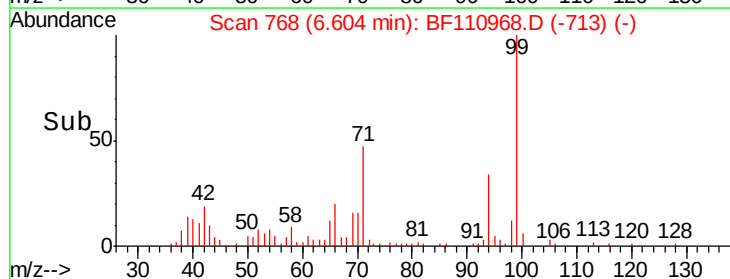
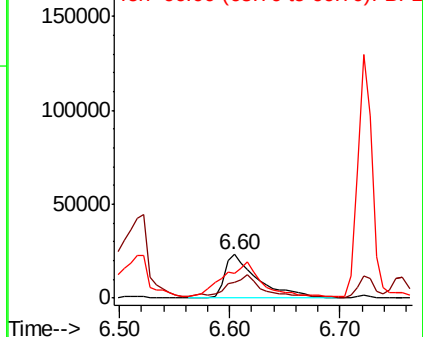
94 100

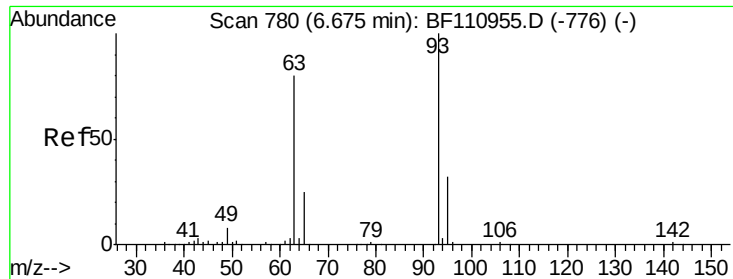
65 36.5 25.3 65.3

66 57.8 54.5 94.5



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

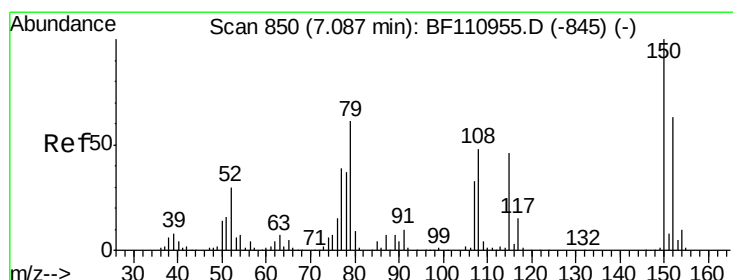
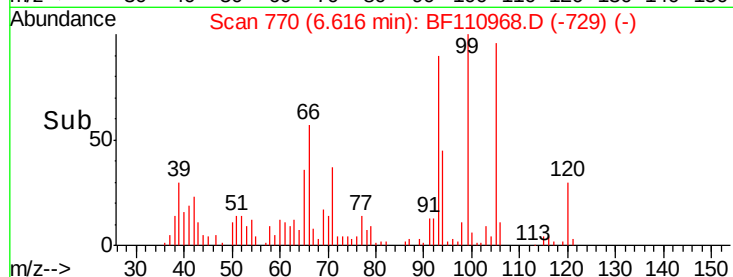
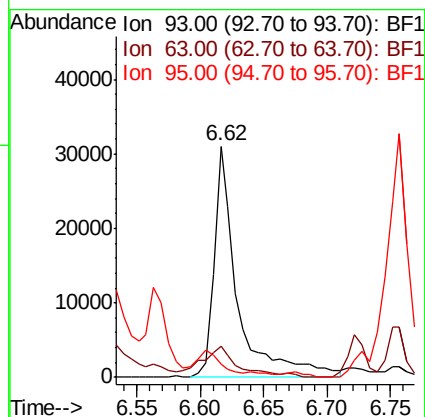
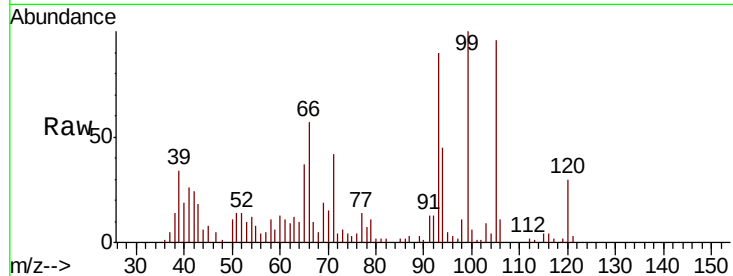




#11  
bis(2-Chloroethyl)ether  
Concen: 9.634 ng  
RT: 6.62 min Scan# 770  
Delta R.T. -0.06 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

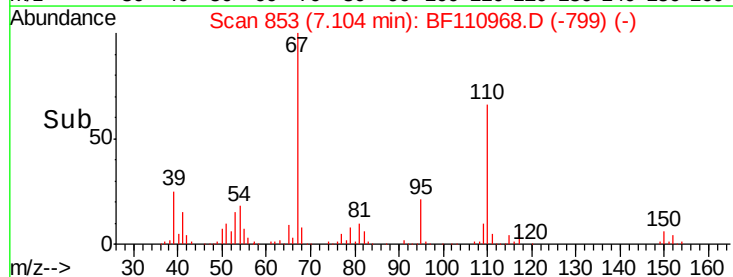
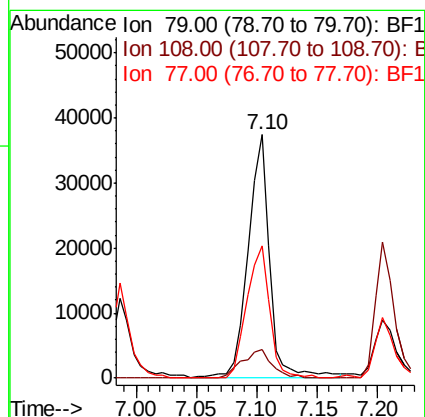
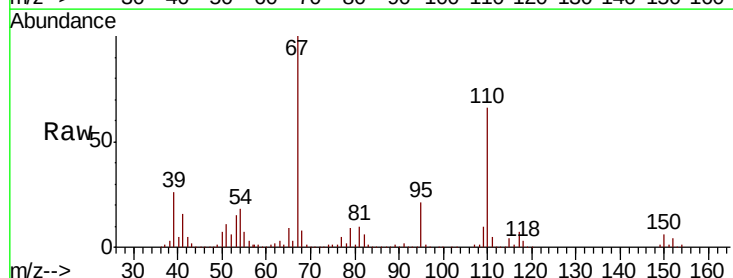
Instrument :  
BNA\_F  
ClientSampled :

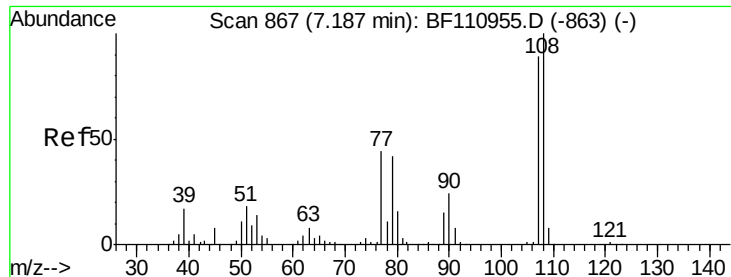
Tot Ion: 93 Resp: 40315  
Ion Ratio Lower Upper  
93 100  
63 13.6 53.4 93.4#  
95 5.8 12.1 52.1#



#15  
Benzyl Alcohol  
Concen: 12.421 ng  
RT: 7.10 min Scan# 853  
Delta R.T. 0.02 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion: 79 Resp: 47081  
Ion Ratio Lower Upper  
79 100  
108 11.6 56.3 84.5#  
77 54.3 52.9 79.3

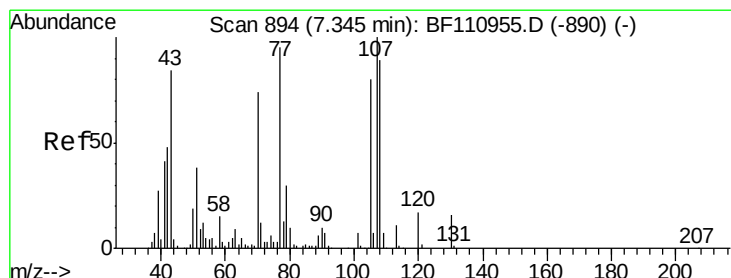
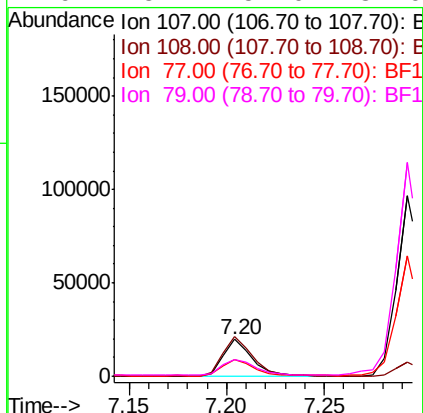
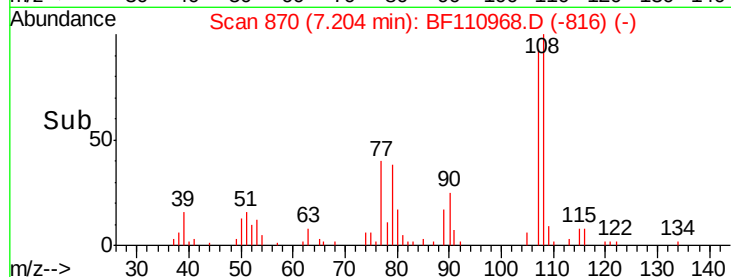
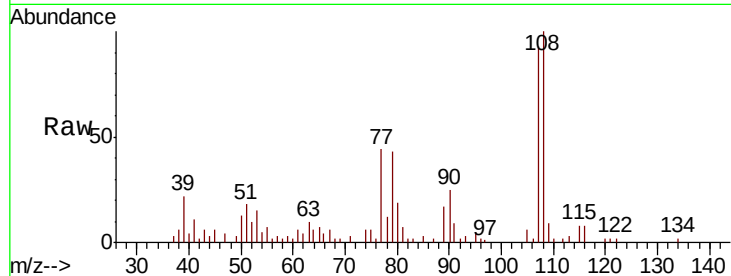




#17  
2-Methylphenol  
Concen: 5.720 ng  
RT: 7.20 min Scan# 870  
Delta R.T. 0.02 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

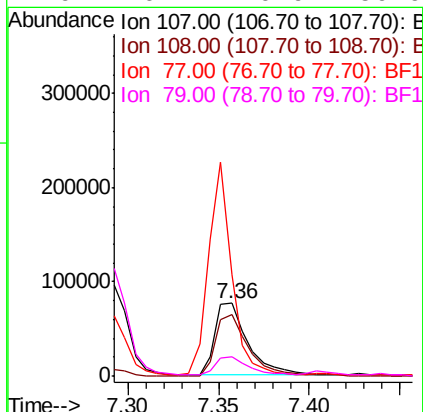
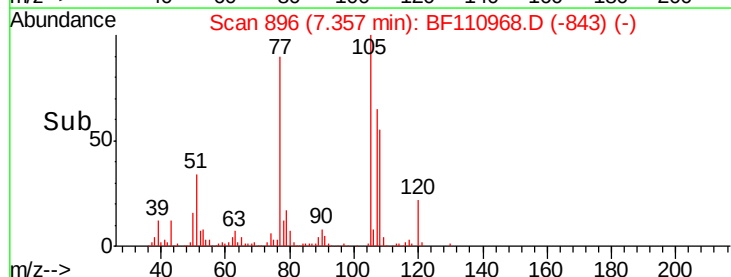
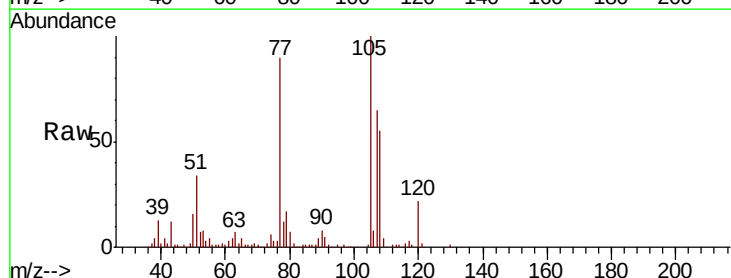
Instrument :  
BNA\_F  
ClientSampleId :

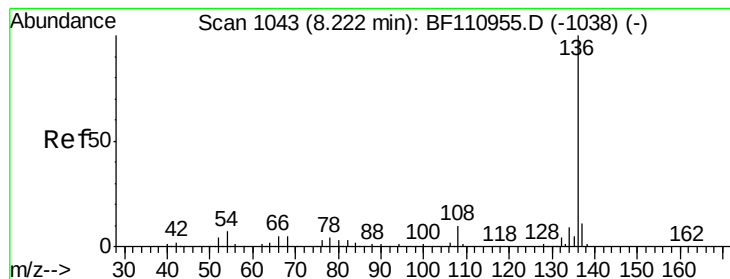
Tot Ion:107 Resp: 20399  
Ion Ratio Lower Upper  
107 100  
108 107.0 92.6 138.8  
77 47.2 59.4 89.2#  
79 45.7 54.0 81.0#



#20  
3+4-Methylphenols  
Concen: 20.541 ng  
RT: 7.36 min Scan# 896  
Delta R.T. 0.01 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion:107 Resp: 97383  
Ion Ratio Lower Upper  
107 100  
108 84.4 71.4 111.4  
77 138.5 47.3 87.3#  
79 26.1 10.9 50.9





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.22 min Scan# 1043

Delta R.T. -0.00 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 265749

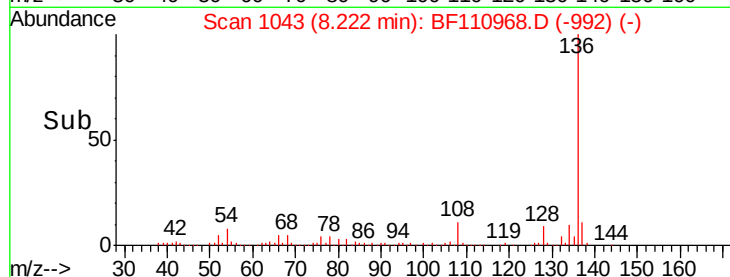
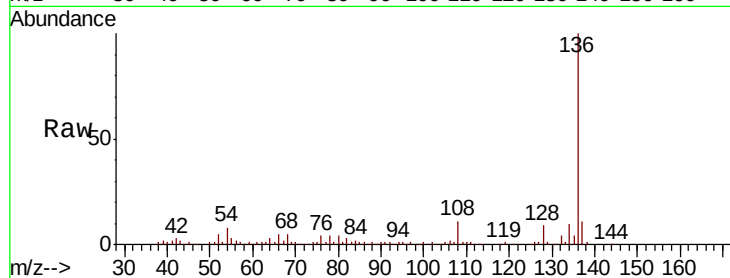
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 8.1 5.4 8.2

68 5.1 4.2 6.2

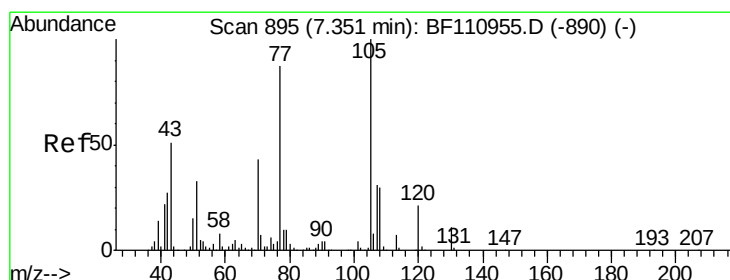
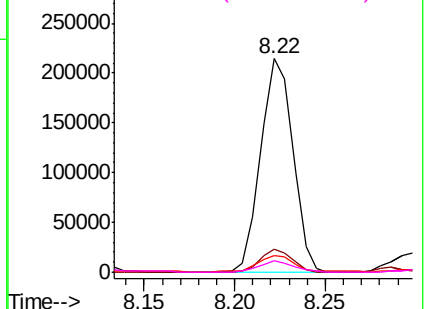


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 37.209 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.00 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

Tgt Ion:105 Resp: 231779

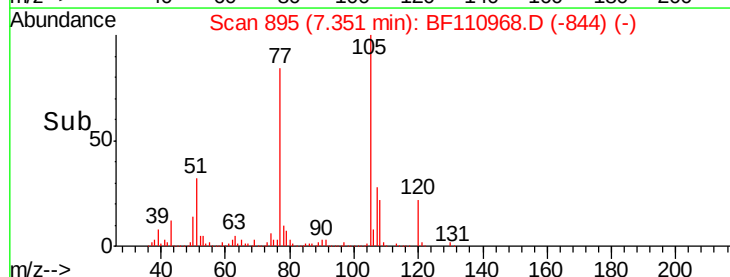
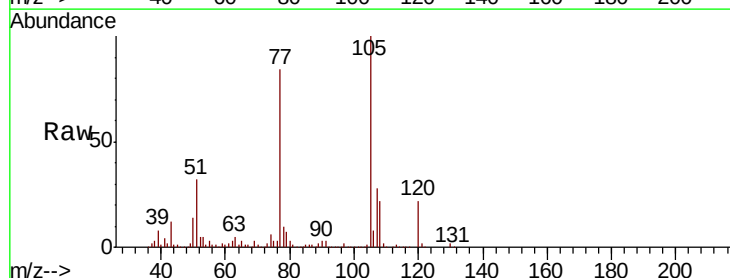
Ion Ratio Lower Upper

105 100

71 0.4 5.2 7.8#

51 31.8 21.8 32.8

120 21.7 17.0 25.4

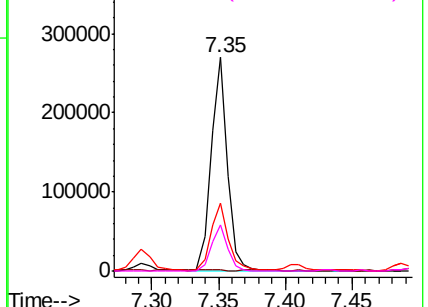


Abundance Ion 105.00 (104.70 to 105.70): E

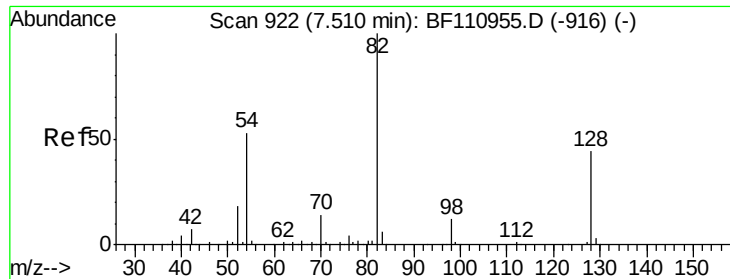
Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



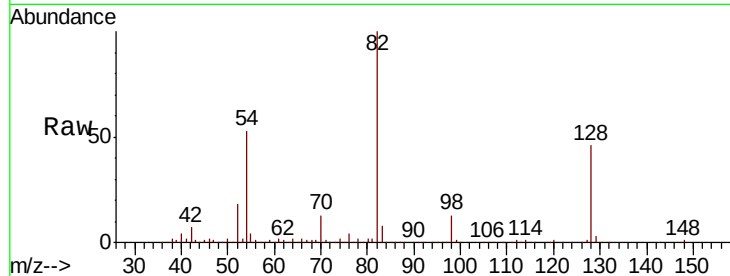




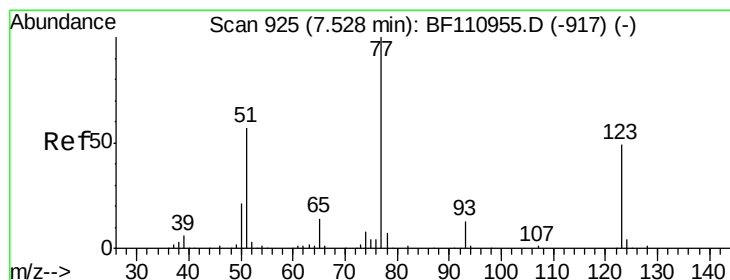
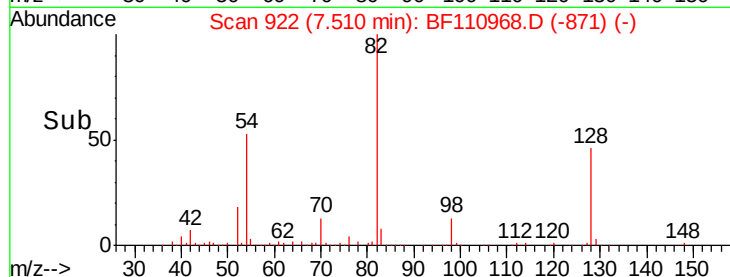
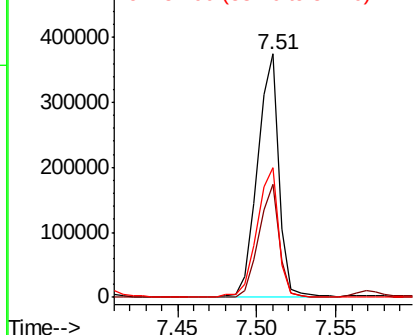
#23  
Nitrobenzene-d5  
Concen: 76.364 ng  
RT: 7.51 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82   | Resp  | 354594 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 46.4 | 34.2  | 51.2   |
| 54        | 53.3 | 38.6  | 58.0   |

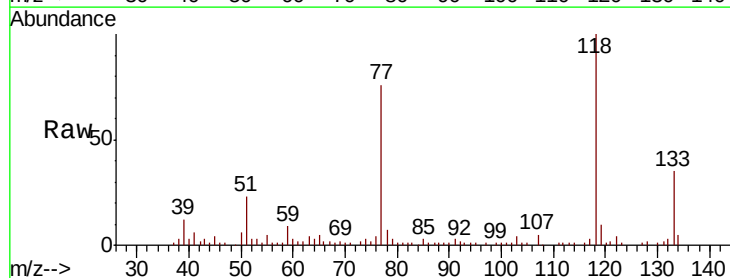


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

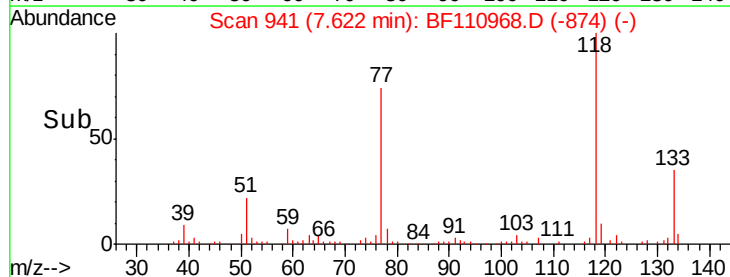
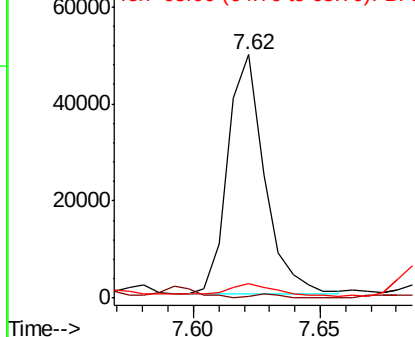


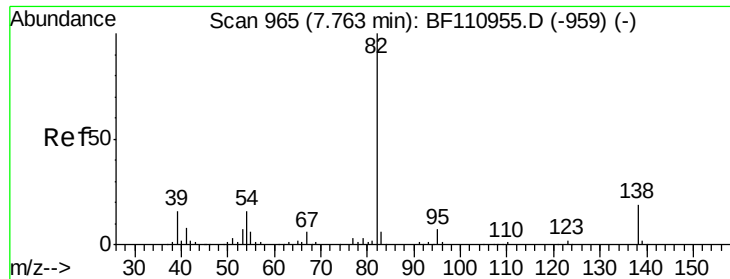
#24  
Nitrobenzene  
Concen: 10.298 ng  
RT: 7.62 min Scan# 941  
Delta R.T. 0.09 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

| Tgt Ion   | 77  | Resp  | 49727 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 123       | 1.0 | 35.7  | 53.5# |
| 65        | 6.0 | 10.7  | 16.1# |



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 123.00 (122.70 to 123.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 46.022 ng

RT: 7.51 min Scan# 922

Delta R.T. -0.25 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

Instrument :

BNA\_F

ClientSampled :

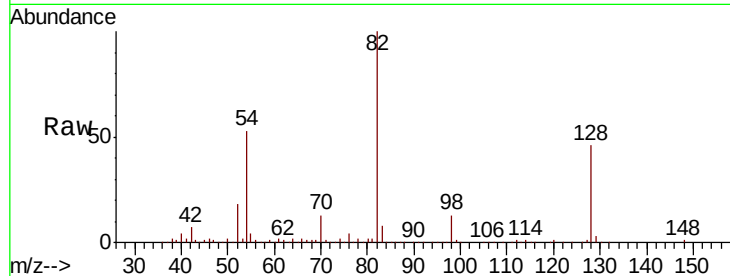
Tot Ion: 82 Resp: 350547

Ion Ratio Lower Upper

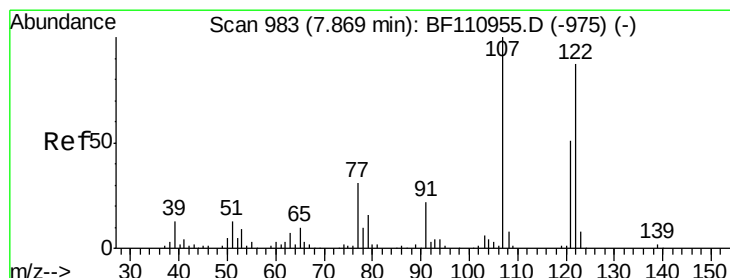
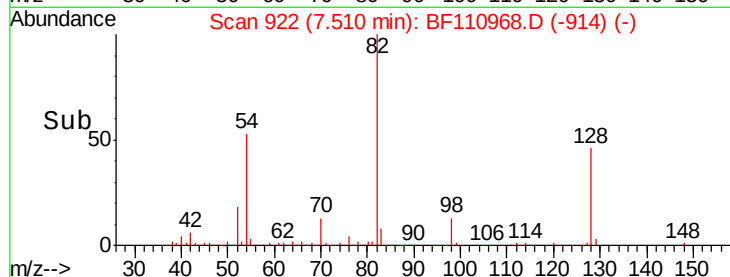
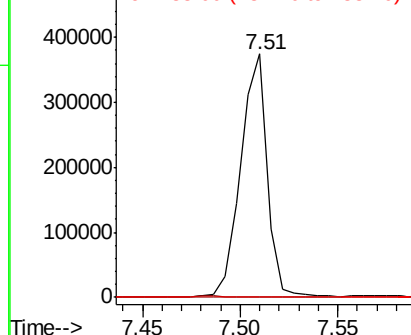
82 100

95 0.1 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): E



#27

2,4-Dimethylphenol

Concen: 9.107 ng

RT: 7.88 min Scan# 985

Delta R.T. 0.01 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

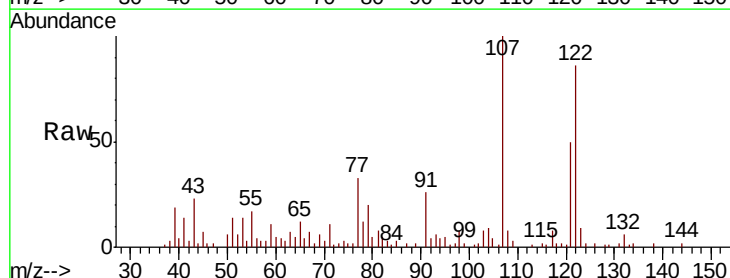
Tgt Ion: 122 Resp: 32266

Ion Ratio Lower Upper

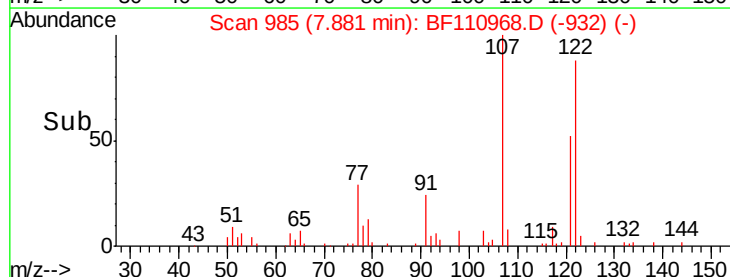
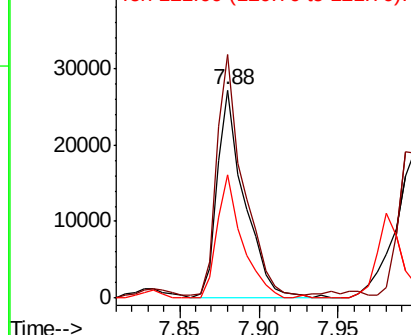
122 100

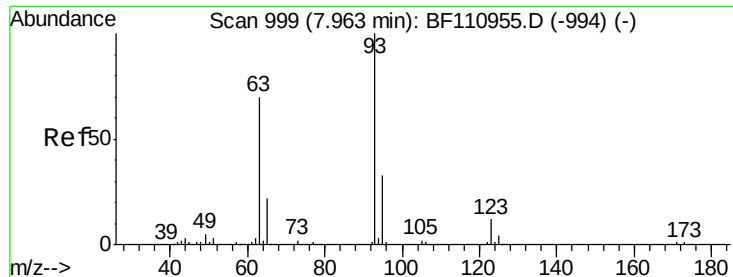
107 116.9 92.5 138.7

121 58.9 45.8 68.8



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E

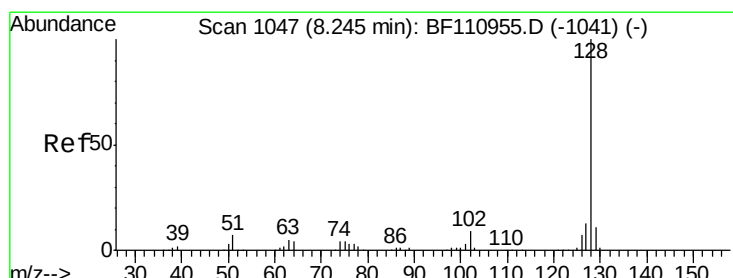
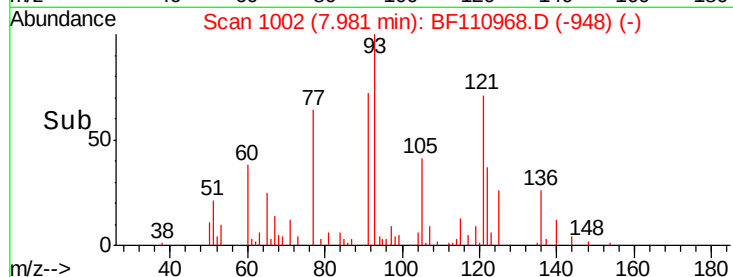
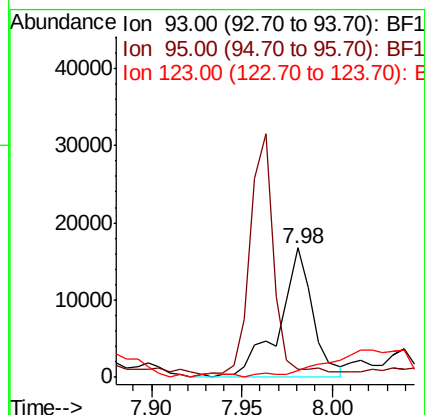
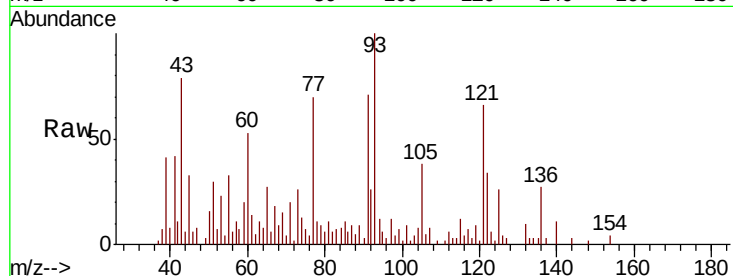




#28  
bis(2-Chloroethoxy)methane  
Concen: 4.253 ng  
RT: 7.98 min Scan# 1002  
Delta R.T. 0.02 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

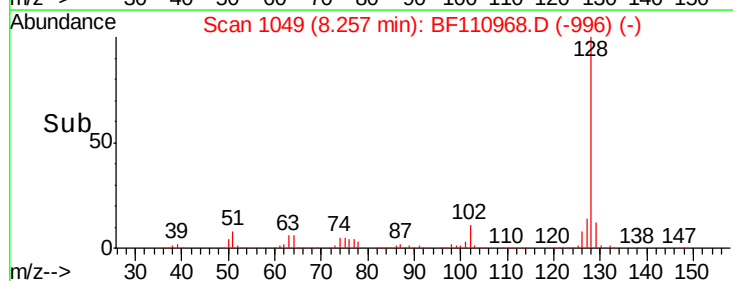
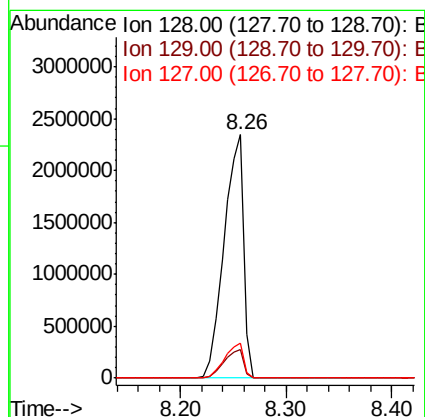
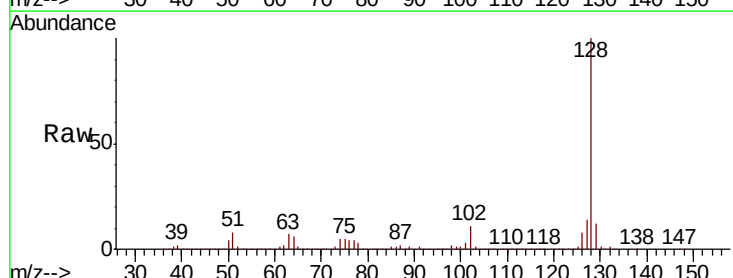
Instrument :  
BNA\_F  
ClientSampled :

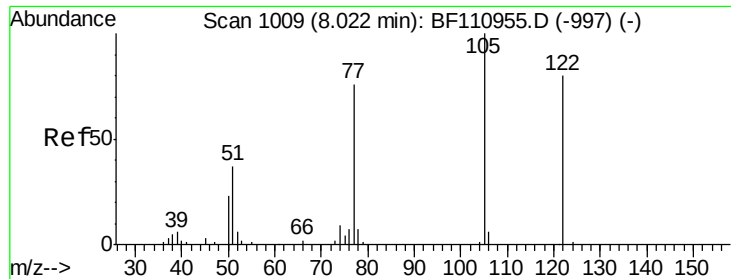
Tot Ion: 93 Resp: 21702  
Ion Ratio Lower Upper  
93 100  
95 5.8 26.4 39.6#  
123 5.5 9.0 13.6#



#31  
Naphthalene  
Concen: 240.963 ng  
RT: 8.26 min Scan# 1049  
Delta R.T. 0.01 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion: 128 Resp: 3001696  
Ion Ratio Lower Upper  
128 100  
129 11.8 8.8 13.2  
127 14.4 10.8 16.2

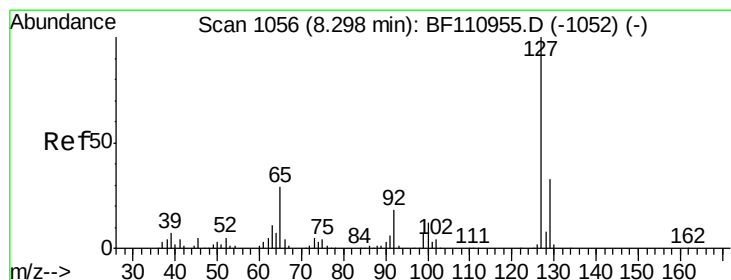
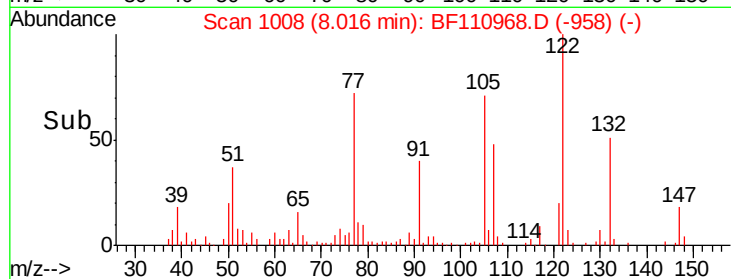
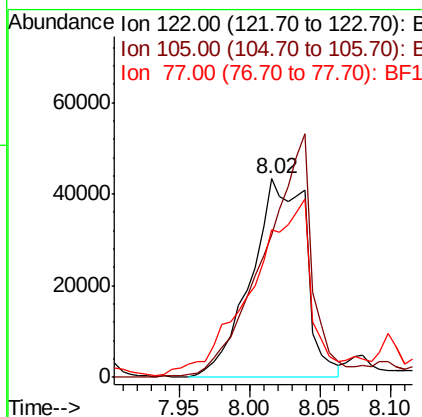
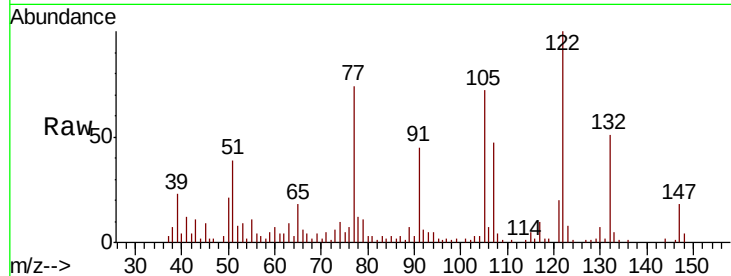




#32  
Benzoic acid  
Concen: 44.818 ng  
RT: 8.02 min Scan# 1008  
Delta R.T. -0.01 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

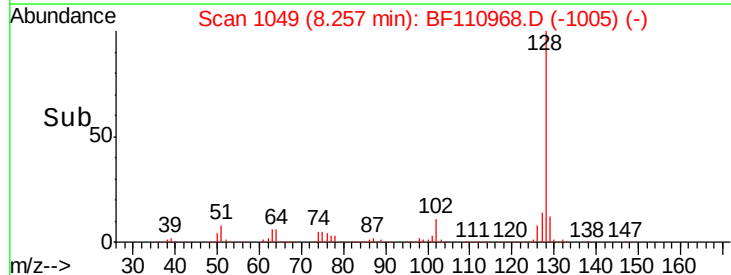
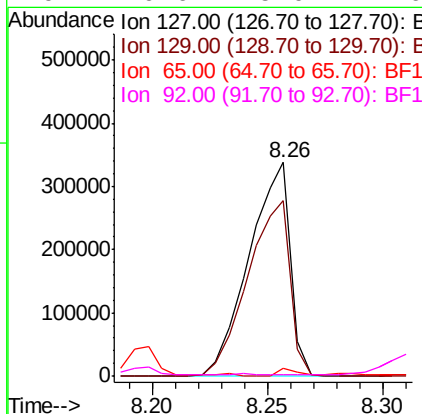
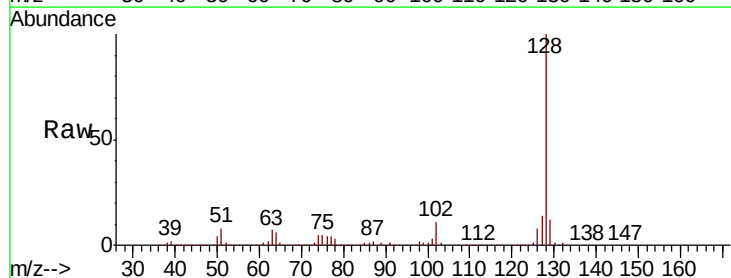
Instrument :  
BNA\_F  
ClientSampleId :

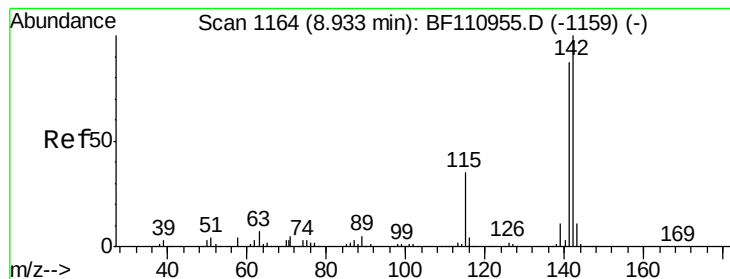
Tot Ion:122 Resp: 118053  
Ion Ratio Lower Upper  
122 100  
105 71.9 109.0 149.0#  
77 74.3 79.0 119.0#



#33  
4-Chloroaniline  
Concen: 78.830 ng  
RT: 8.26 min Scan# 1049  
Delta R.T. -0.04 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion:127 Resp: 417965  
Ion Ratio Lower Upper  
127 100  
129 82.0 26.0 39.0#  
65 3.6 25.1 37.7#  
92 0.6 15.0 22.6#





#37

2-Methylnaphthalene

Concen: 12.382 ng

RT: 8.93 min Scan# 1164

Delta R.T. -0.00 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

Instrument :

BNA\_F

ClientSampleId :

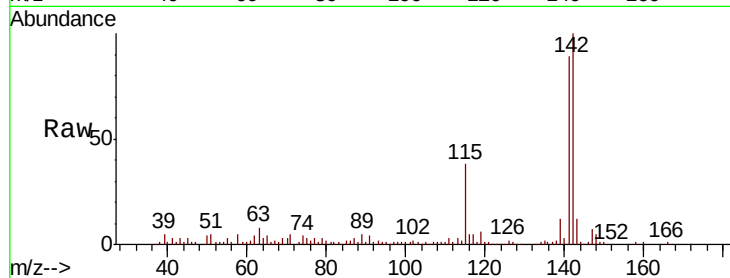
Tot Ion:142 Resp: 101876

Ion Ratio Lower Upper

142 100

141 88.6 71.4 107.2

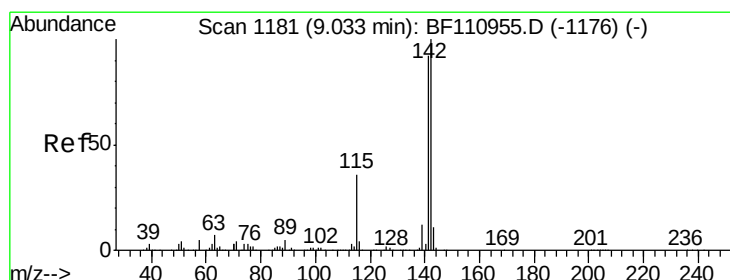
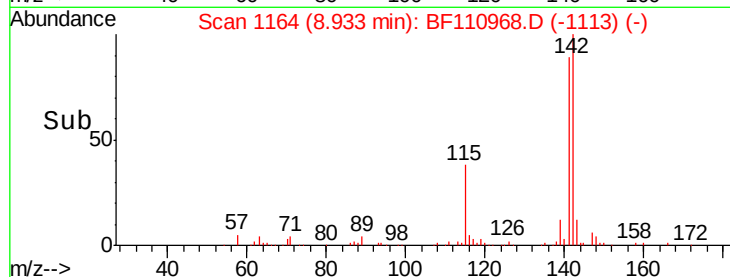
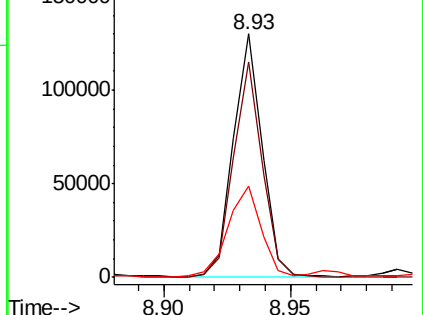
115 37.7 28.7 43.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 12.228 ng

RT: 9.03 min Scan# 1181

Delta R.T. -0.00 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

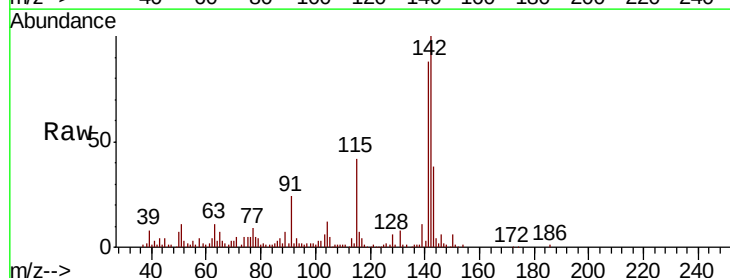
Tgt Ion:142 Resp: 97865

Ion Ratio Lower Upper

142 100

141 88.0 74.2 111.4

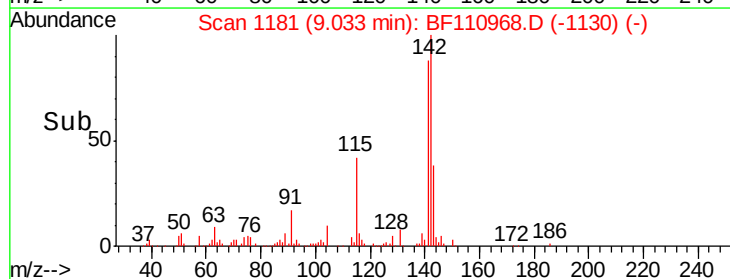
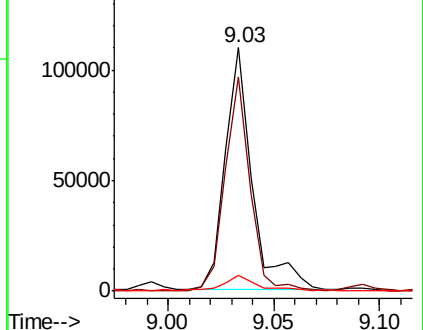
116 6.5 2.6 4.0#

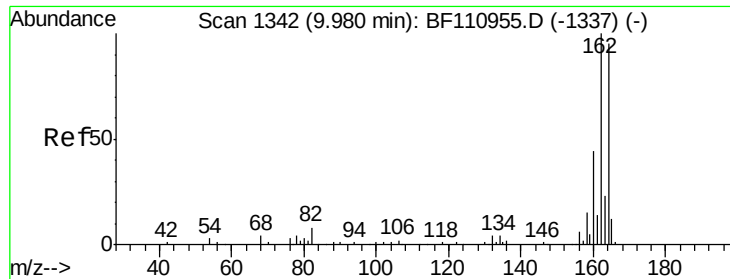


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

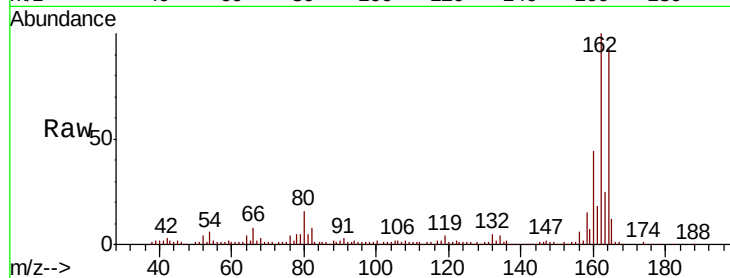




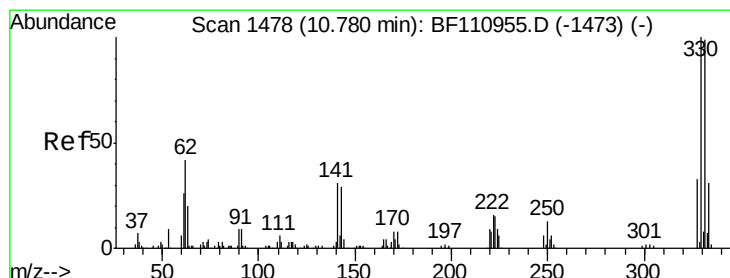
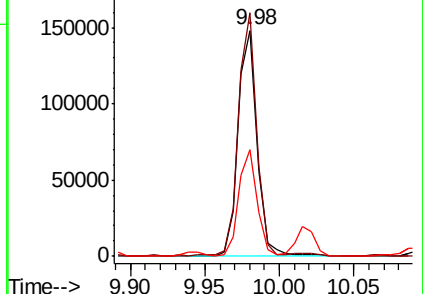
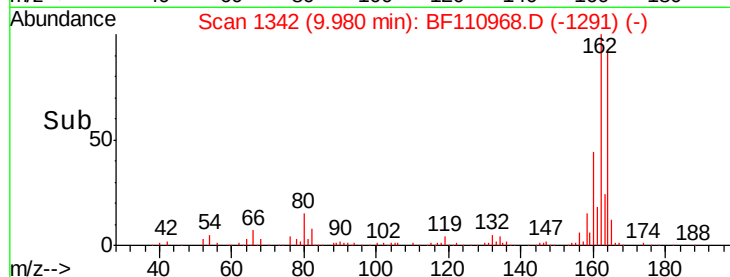
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.98 min Scan# 1342  
Delta R.T. -0.00 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.8 | 83.0  | 124.6 |
| 160     | 47.4  | 37.0  | 55.6  |

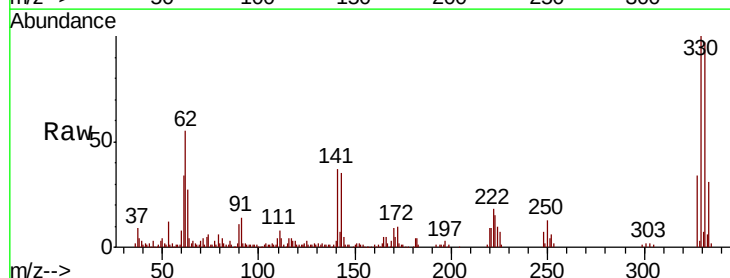


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

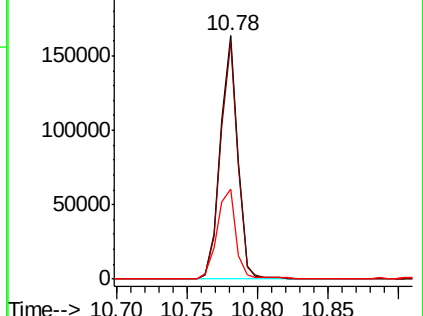
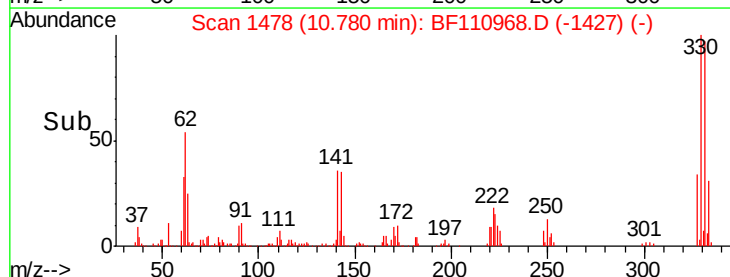


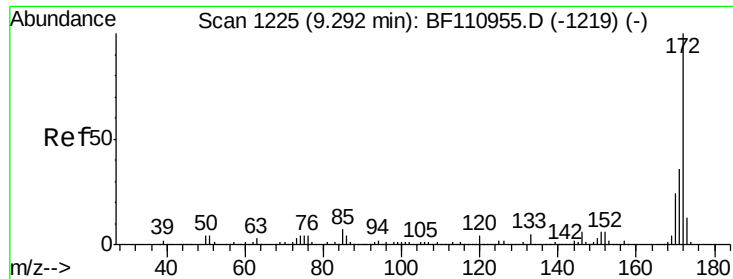
#42  
2,4,6-Tribromophenol  
Concen: 108.267 ng  
RT: 10.78 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 77.1  | 115.7 |
| 141     | 39.9  | 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

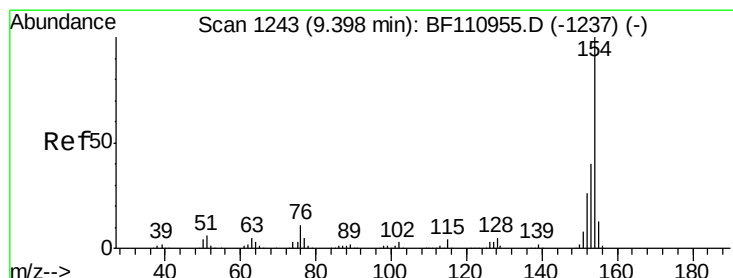
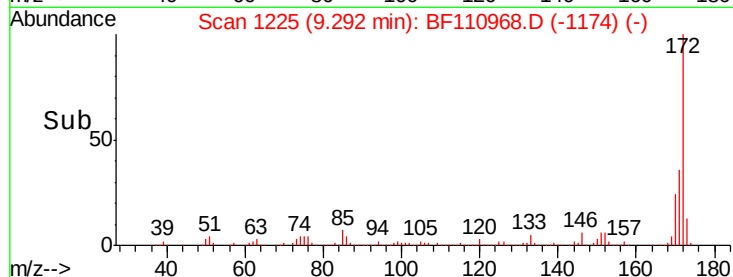
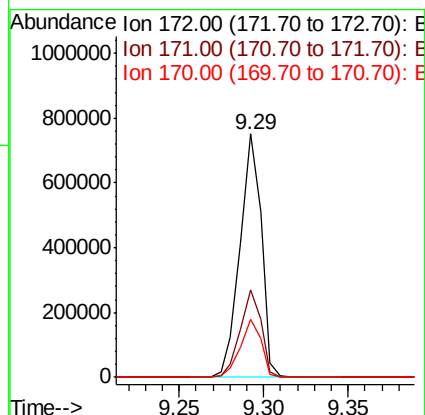
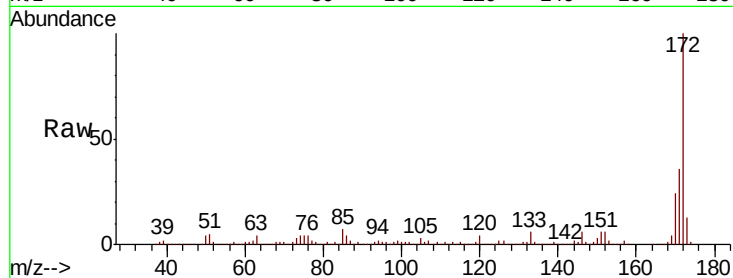




#45  
2-Fluorobiphenyl  
Concen: 72.666 ng  
RT: 9.29 min Scan# 1225  
Delta R.T. -0.00 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

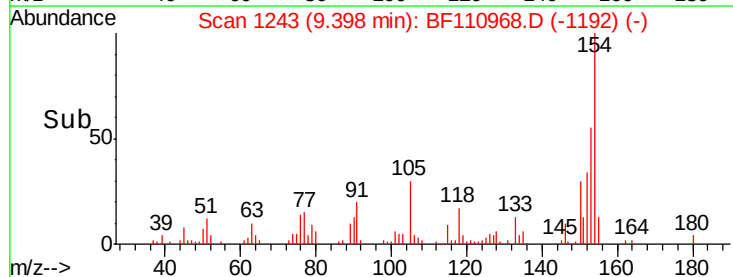
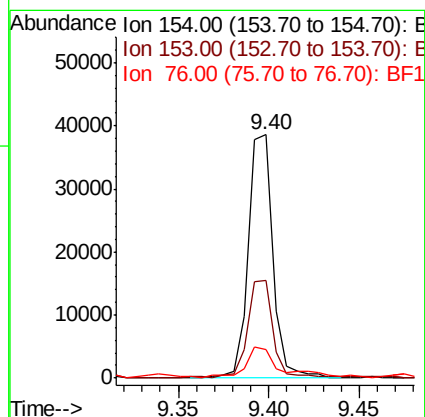
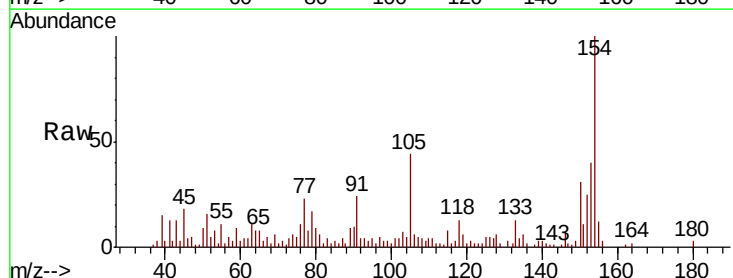
Instrument :  
BNA\_F  
ClientSampleId :

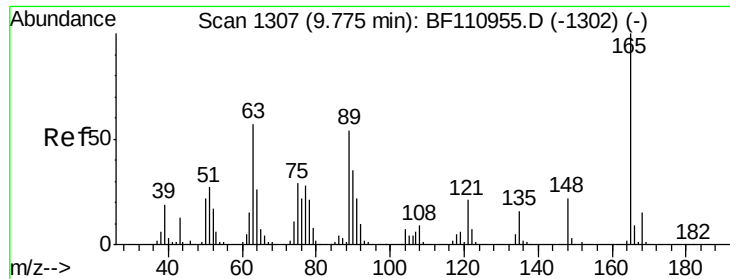
Tot Ion:172 Resp: 658745  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.6 43.0  
170 24.0 19.7 29.5



#46  
1,1'-Biphenyl  
Concen: 3.006 ng  
RT: 9.40 min Scan# 1243  
Delta R.T. -0.00 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion:154 Resp: 36393  
Ion Ratio Lower Upper  
154 100  
153 40.4 20.4 60.4  
76 11.5 0.0 31.9





#51

2,6-Dinitrotoluene

Concen: 2.741 ng

RT: 9.66 min Scan# 1287

Delta R.T. -0.12 min

Lab File: BF110968.D

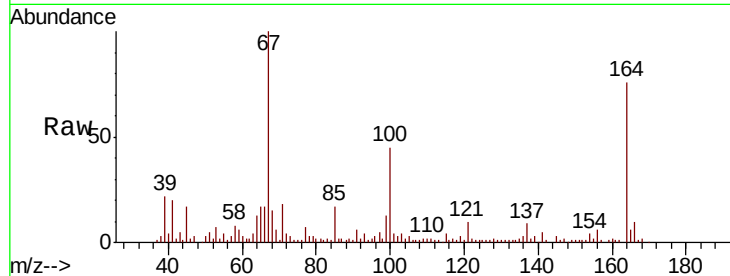
Acq: 26 Nov 2018 17:20

Instrument :

BNA\_F

ClientSampleId :

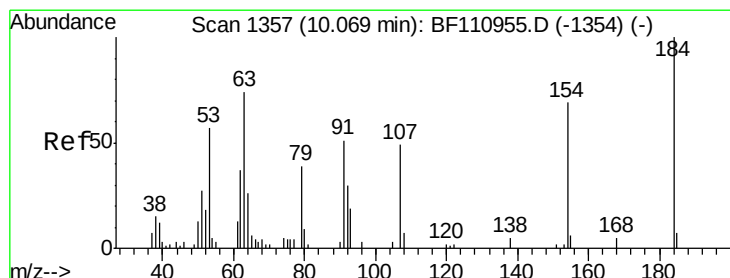
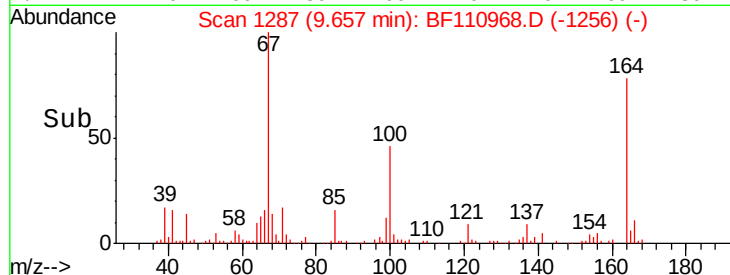
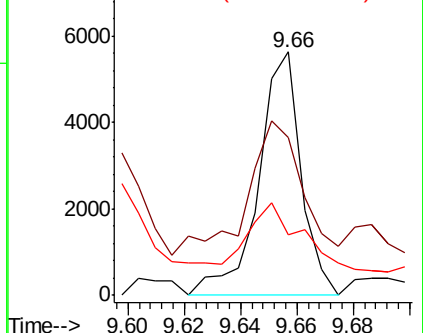
|             |       |       |
|-------------|-------|-------|
| Tot Ion:165 | Resp: | 5877  |
| Ion Ratio   | Lower | Upper |
| 165 100     |       |       |
| 63 64.8     | 48.9  | 73.3  |
| 89 25.1     | 46.6  | 69.8# |



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



#54

2,4-Dinitrophenol

Concen: 4.624 ng

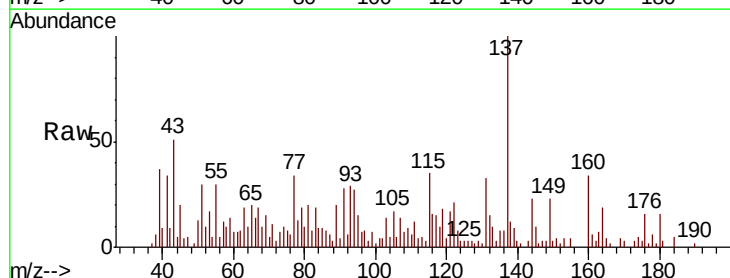
RT: 10.09 min Scan# 1361

Delta R.T. 0.02 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

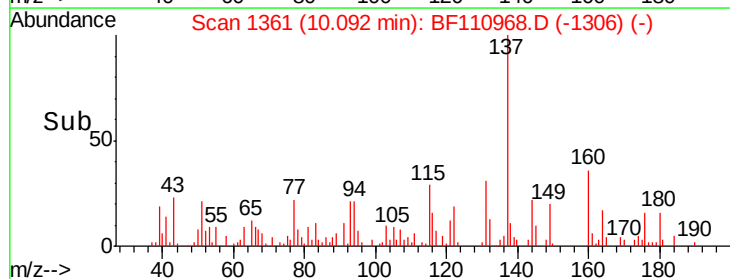
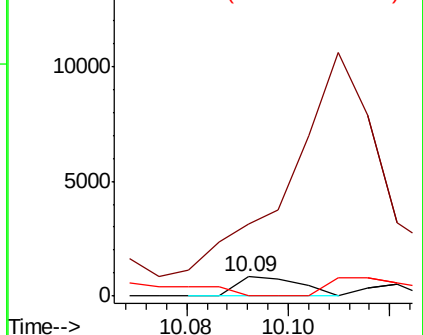
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:184 | Resp: | 720   |
| Ion Ratio   | Lower | Upper |
| 184 100     |       |       |
| 63 378.4    | 55.8  | 83.6# |
| 154 0.0     | 63.2  | 94.8# |



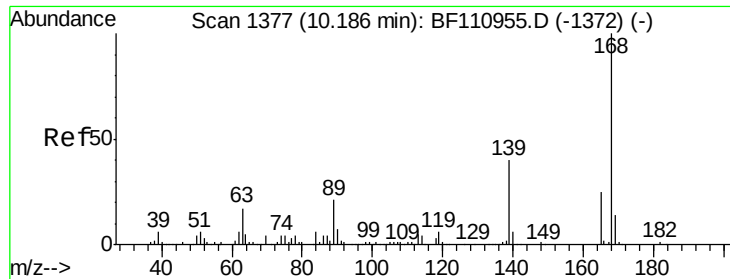
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



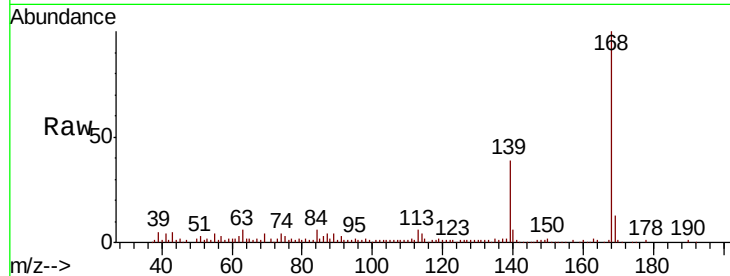




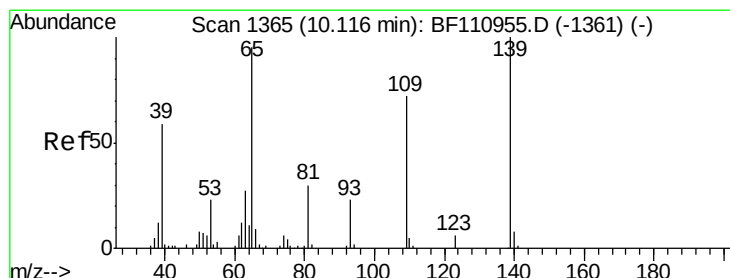
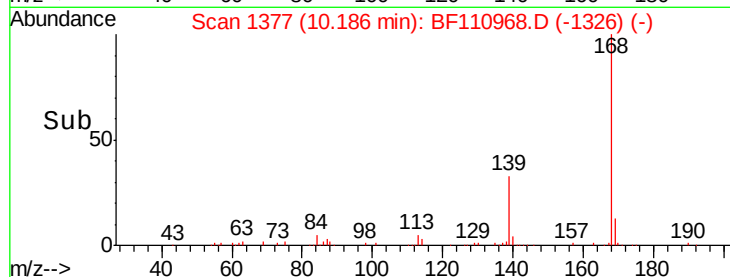
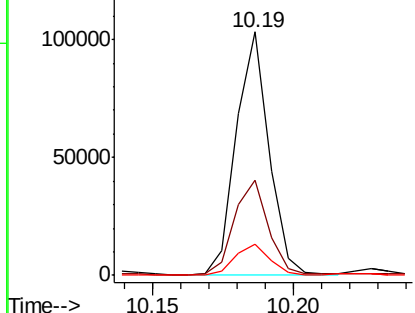
#55  
Dibenzofuran  
Concen: 7.092 ng  
RT: 10.19 min Scan# 1377  
Delta R.T. -0.00 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:168 Resp: 82801  
Ion Ratio Lower Upper  
168 100  
139 39.2 33.0 49.6  
169 12.9 11.3 16.9

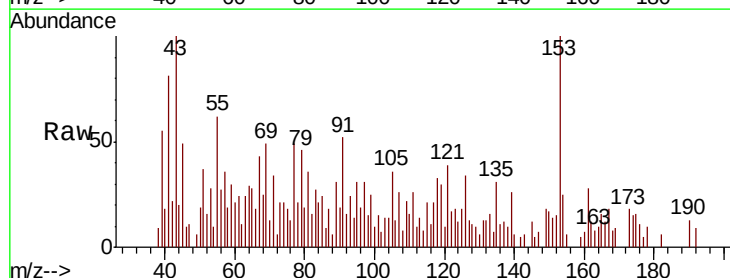


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

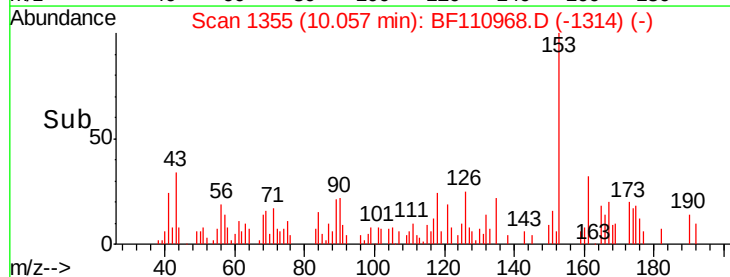
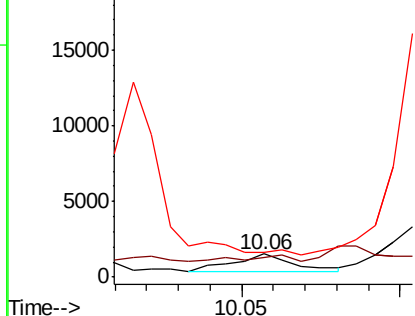


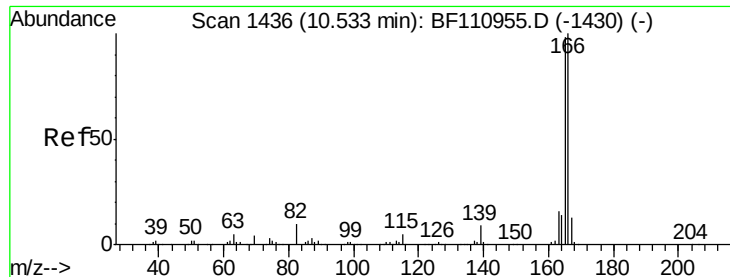
#56  
4-Nitrophenol  
Concen: 5.241 ng  
RT: 10.06 min Scan# 1355  
Delta R.T. -0.06 min  
Lab File: BF110968.D  
Acq: 26 Nov 2018 17:20

Tgt Ion:139 Resp: 1472  
Ion Ratio Lower Upper  
139 100  
109 84.5 55.8 95.8  
65 107.0 77.9 117.9



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

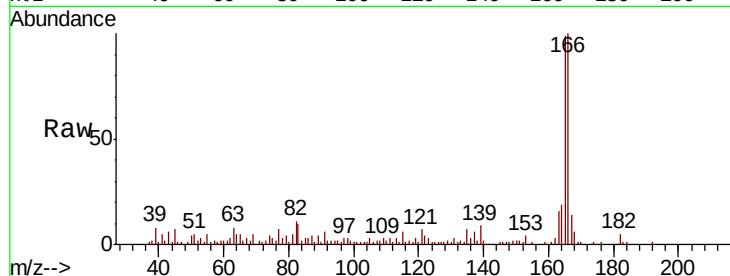




#58  
 Fluorene  
 Concen: 7.412 ng  
 RT: 10.53 min Scan# 1435  
 Delta R.T. -0.01 min  
 Lab File: BF110968.D  
 Acq: 26 Nov 2018 17:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.7  | 78.6  | 117.8 |
| 167     | 14.3  | 10.8  | 16.2  |

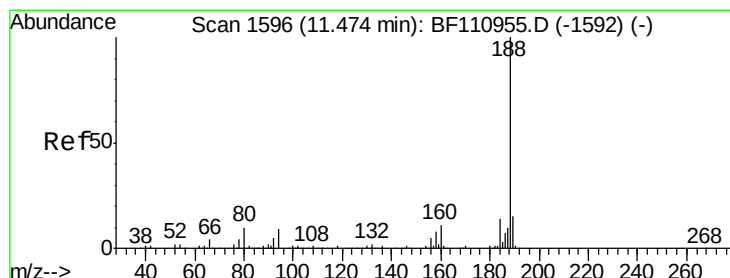
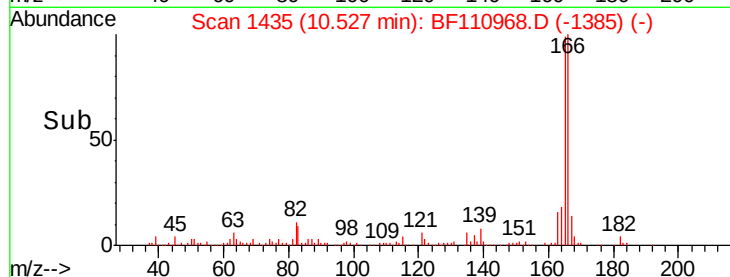
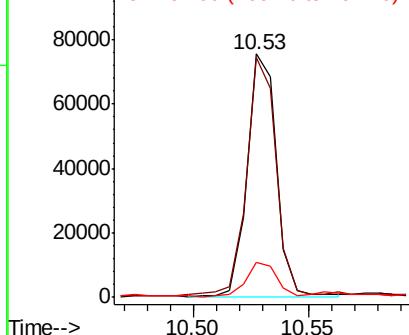


Abundance

Ion 166.00 (165.70 to 166.70): E

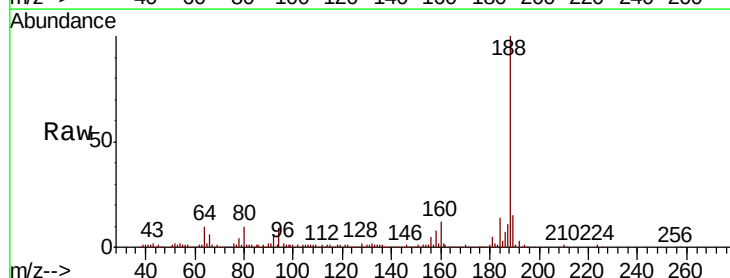
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.47 min Scan# 1596  
 Delta R.T. -0.00 min  
 Lab File: BF110968.D  
 Acq: 26 Nov 2018 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.2   | 7.2   | 10.8  |
| 80      | 10.2  | 7.9   | 11.9  |

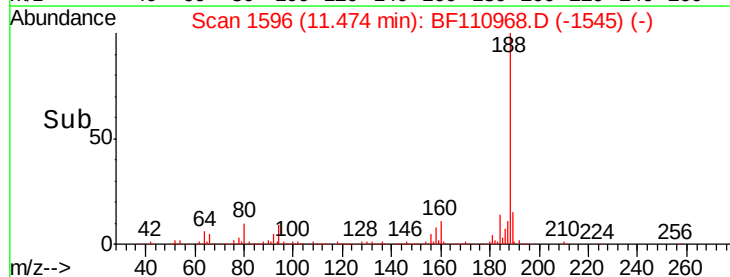
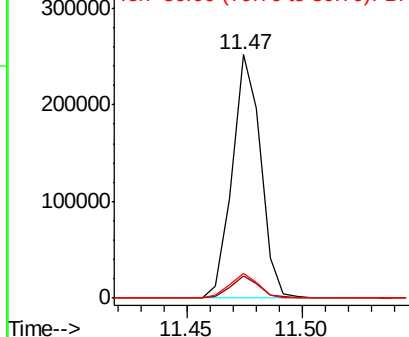


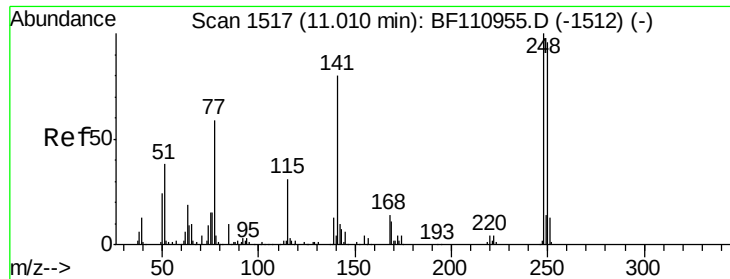
Abundance

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

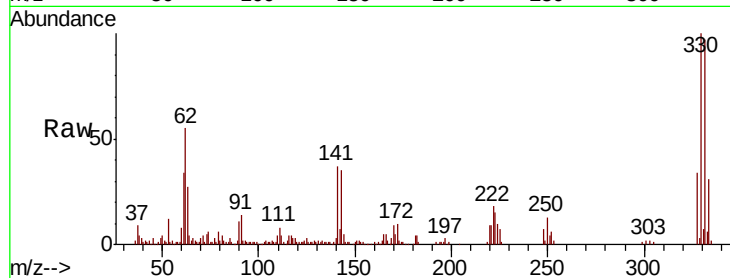




#67  
 4-Bromophenyl-phenylether  
 Concen: 3.985 ng  
 RT: 10.78 min Scan# 1478  
 Delta R.T. -0.23 min  
 Lab File: BF110968.D  
 Acq: 26 Nov 2018 17:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 197.5 | 79.4  | 119.2# |
| 141     | 554.5 | 55.9  | 83.9#  |

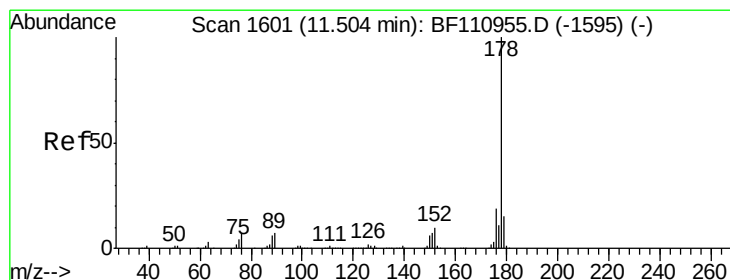
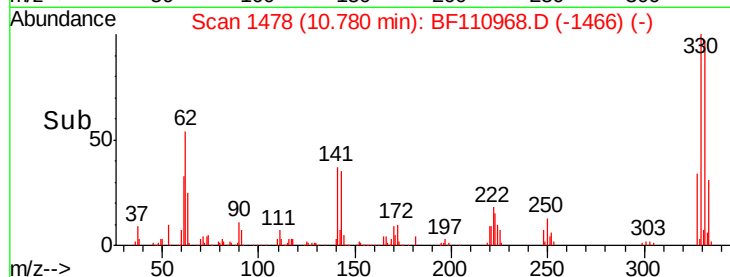
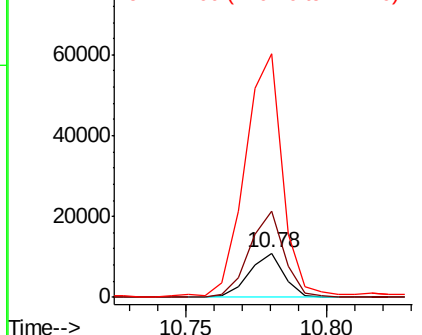


Abundance

Ion 248.00 (247.70 to 248.70): E

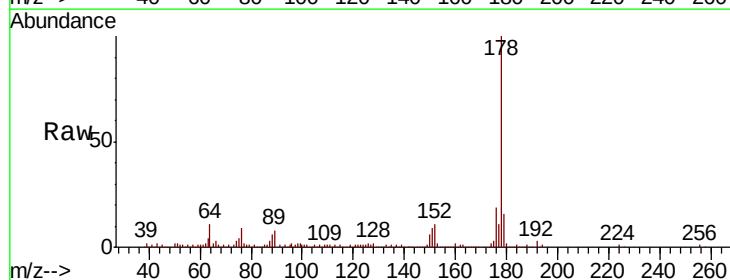
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#71  
 Phenanthrene  
 Concen: 18.614 ng  
 RT: 11.50 min Scan# 1600  
 Delta R.T. -0.01 min  
 Lab File: BF110968.D  
 Acq: 26 Nov 2018 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.5  | 23.3  |
| 179     | 15.8  | 12.5  | 18.7  |

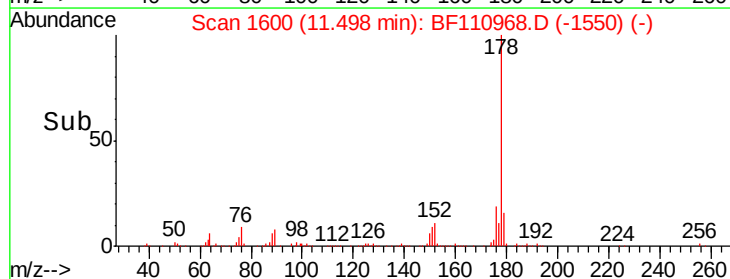
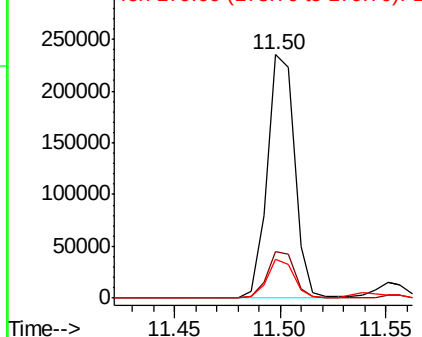


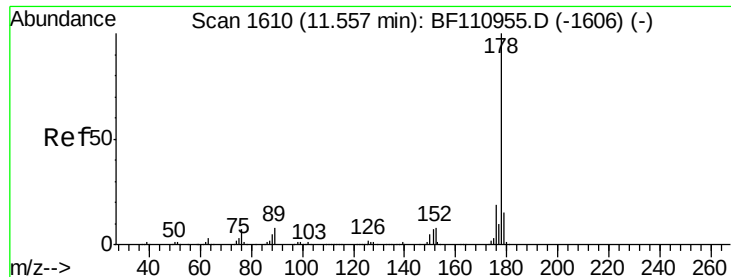
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 18.278 ng

RT: 11.50 min Scan# 1600

Delta R.T. -0.06 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

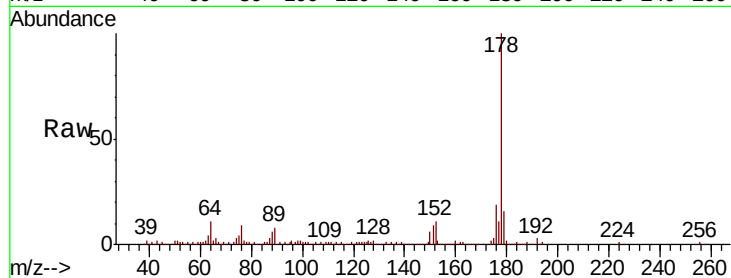
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 213090

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.1  | 15.4  | 23.2  |
| 179 | 15.8  | 12.6  | 18.8  |

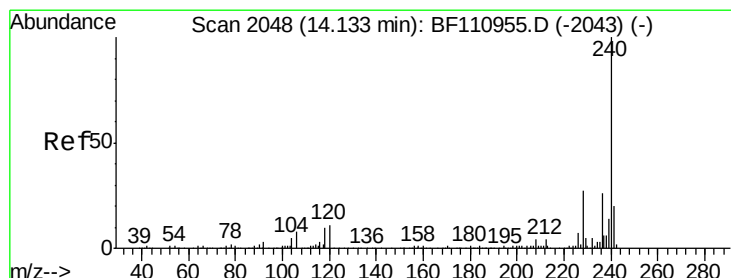
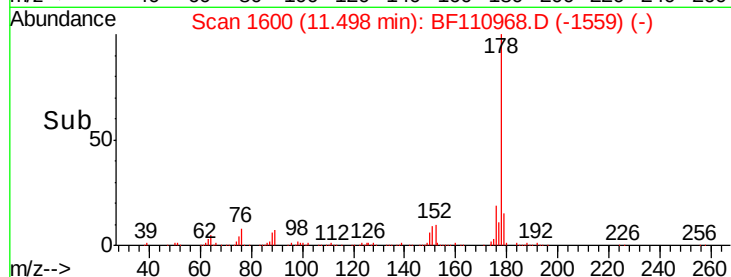
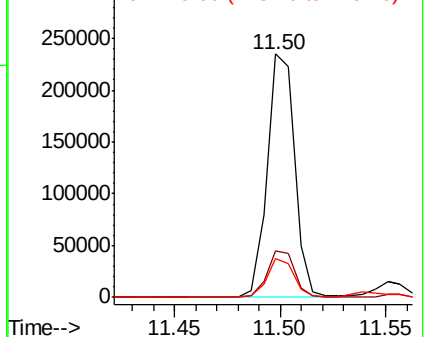


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.13 min Scan# 2048

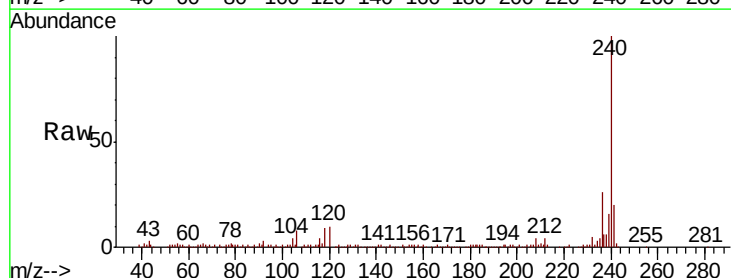
Delta R.T. -0.00 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

Tgt Ion:240 Resp: 131664

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 10.2  | 8.3   | 12.5  |
| 236 | 26.2  | 21.2  | 31.8  |

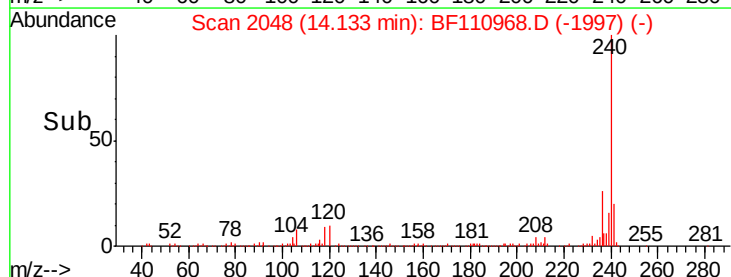
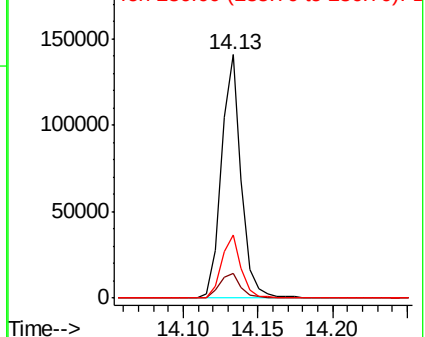


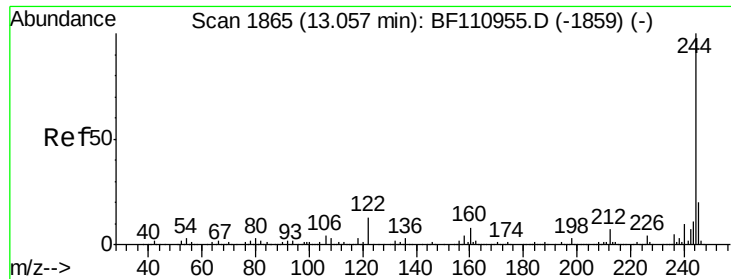
Abundance

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: 78.901 ng

RT: 13.06 min Scan# 1865

Delta R.T. -0.00 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

Instrument :

BNA\_F

ClientSampleId :

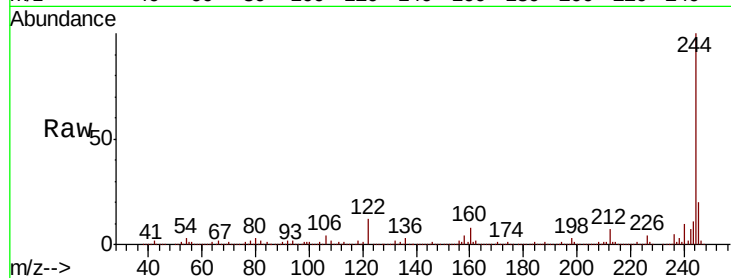
Tot Ion:244 Resp: 533662

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

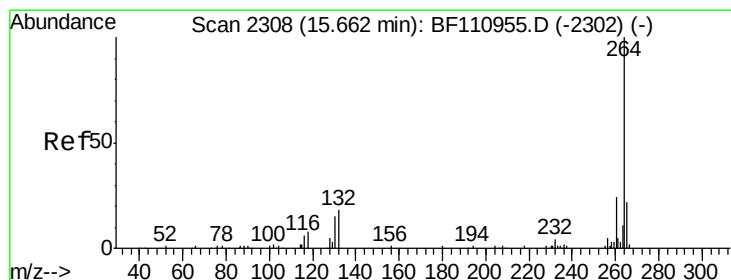
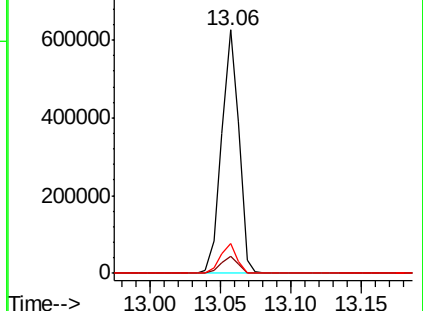
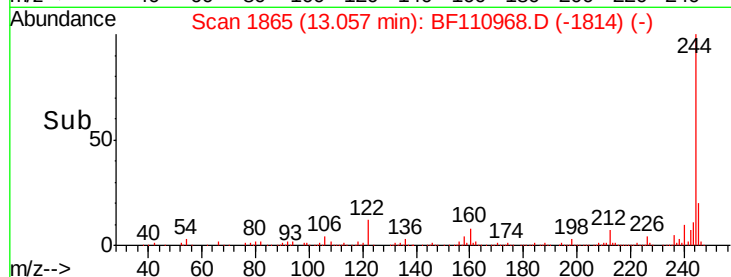
122 12.4 8.7 13.1



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: 15.67 min Scan# 2309

Delta R.T. 0.01 min

Lab File: BF110968.D

Acq: 26 Nov 2018 17:20

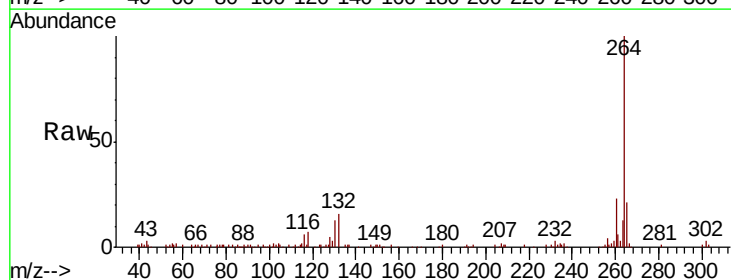
Tgt Ion:264 Resp: 132115

Ion Ratio Lower Upper

264 100

260 22.6 18.7 28.1

265 21.3 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

