

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122217\  
 Data File : BF101697.D  
 Acq On : 23 Dec 2017 12:11  
 Operator : SJ/JU  
 Sample : I6844-03  
 Misc :  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

Quant Time: Dec 24 22:36:13 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 22 16:07:58 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.79  | 152  | 154349   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 459739   | 20.00 | ng    | 0.01     |
| 38) Acenaphthene-d10      | 9.82  | 164  | 265961   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.32 | 188  | 451100   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.96 | 240  | 310775   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.43 | 264  | 289093   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.43  | 112 | 1289367 | 124.43 | ng | 0.02 |
| 7) Phenol-d6                | 6.45  | 99  | 1047809 | 81.25  | ng | 0.02 |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 1066632 | 129.15 | ng | 0.01 |
| 41) 2,4,6-Tribromophenol    | 10.62 | 330 | 337925  | 131.86 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.15  | 172 | 1597495 | 93.18  | ng | 0.00 |
| 78) Terphenyl-d14           | 12.90 | 244 | 1355638 | 105.16 | ng | 0.00 |

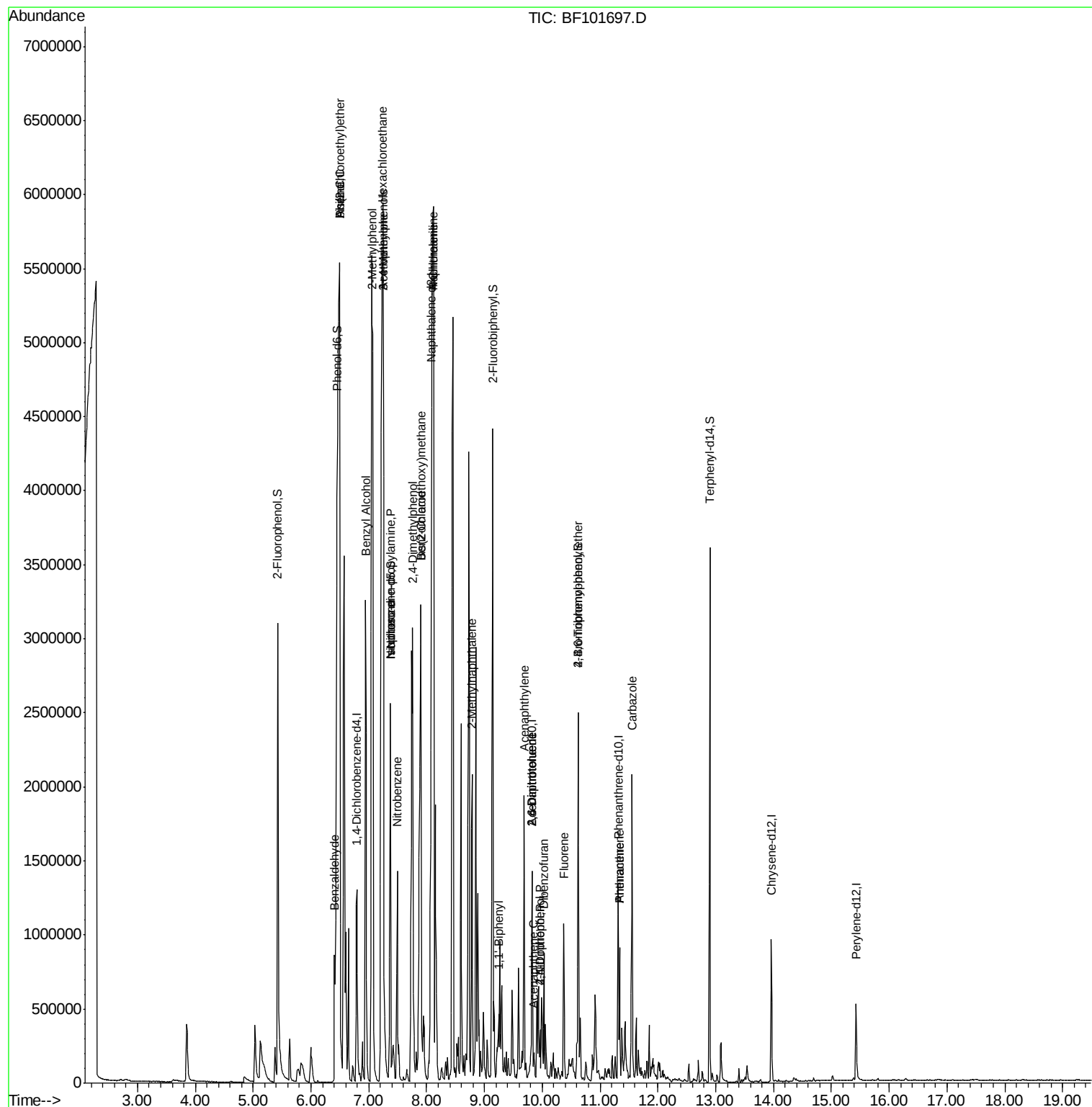
|                                |       |     |         |         |    |      |
|--------------------------------|-------|-----|---------|---------|----|------|
| Target Compounds               |       |     |         | Qvalue  |    |      |
| 6) Aniline                     | 6.50  | 93  | 154027  | 8.595   | ng | # 1  |
| 9) Benzaldehyde                | 6.40  | 77  | 63778   | 6.697   | ng | # 1  |
| 10) Phenol                     | 6.50  | 94  | 6185753 | 420.851 | ng | 94   |
| 11) bis(2-Chloroethyl)ether    | 6.50  | 93  | 154027  | 13.360  | ng | # 1  |
| 15) Benzyl Alcohol             | 6.95  | 79  | 40976   | 4.616   | ng | # 50 |
| 17) 2-Methylphenol             | 7.07  | 107 | 1451113 | 144.727 | ng | 97   |
| 18) Hexachloroethane           | 7.23  | 117 | 74283   | 17.007  | ng | # 3  |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70  | 141128  | 16.664  | ng | # 81 |
| 20) 3+4-Methylphenols          | 7.25  | 107 | 4205983 | 395.861 | ng | 87   |
| 22) Acetophenone               | 7.25  | 105 | 52062   | 4.963   | ng | # 1  |
| 24) Nitrobenzene               | 7.49  | 77  | 218399  | 23.893  | ng | # 48 |
| 25) Isophorone                 | 7.37  | 82  | 1066790 | 64.389  | ng | # 64 |
| 27) 2,4-Dimethylphenol         | 7.76  | 122 | 1196699 | 179.379 | ng | 94   |
| 28) bis(2-Chloroethoxy)methane | 7.90  | 93  | 53363   | 5.070   | ng | # 1  |
| 31) Naphthalene                | 8.10  | 128 | 6955227 | 300.507 | ng | 98   |
| 32) Benzoic acid               | 7.90  | 122 | 1257204 | 241.255 | ng | # 14 |
| 33) 4-Chloroaniline            | 8.11  | 127 | 991444  | 98.557  | ng | # 35 |
| 37) 2-Methylnaphthalene        | 8.79  | 142 | 579143  | 38.406  | ng | 99   |
| 45) 1,1'-Biphenyl              | 9.25  | 154 | 123106  | 5.219   | ng | 98   |
| 48) Acenaphthylene             | 9.69  | 152 | 732083  | 25.682  | ng | 99   |
| 50) 2,6-Dinitrotoluene         | 9.82  | 165 | 36816   | 8.467   | ng | # 27 |
| 51) Acenaphthene               | 9.86  | 154 | 41605   | 2.429   | ng | 85   |
| 53) 2,4-Dinitrophenol          | 9.97  | 184 | 223     | 10.449  | ng | # 1  |
| 54) Dibenzofuran               | 10.03 | 168 | 294905  | 13.550  | ng | 99   |
| 55) 4-Nitrophenol              | 9.96  | 139 | 5336    | 2.257   | ng | # 37 |
| 56) 2,4-Dinitrotoluene         | 9.82  | 165 | 36816   | 7.515   | ng | # 25 |
| 57) Fluorene                   | 10.37 | 166 | 263946  | 14.336  | ng | # 97 |
| 66) 4-Bromophenyl-phenylether  | 10.62 | 248 | 20171   | 3.980   | ng | # 1  |
| 70) Phenanthrene               | 11.34 | 178 | 316368  | 12.611  | ng | 100  |
| 71) Anthracene                 | 11.34 | 178 | 316368  | 12.346  | ng | 99   |
| 72) Carbazole                  | 11.55 | 167 | 786628  | 32.788  | ng | 99   |

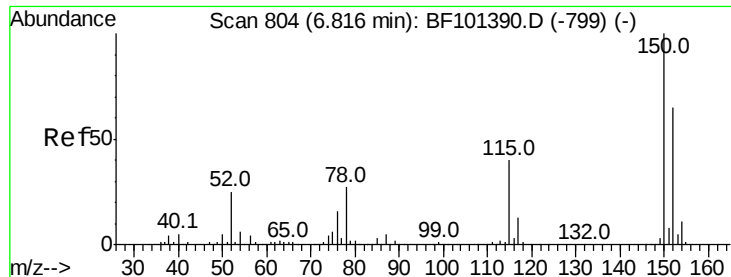
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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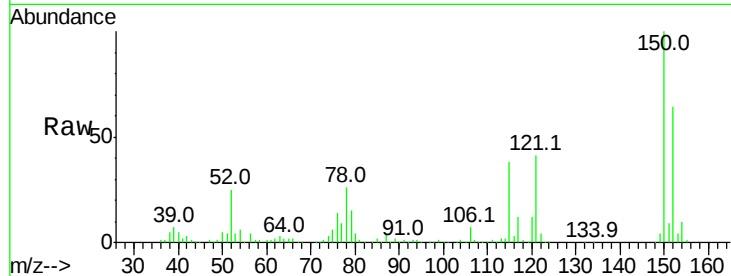


#1

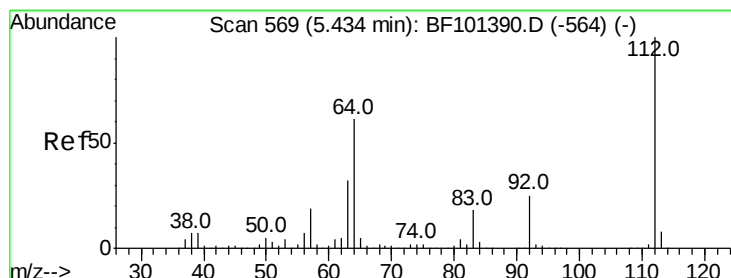
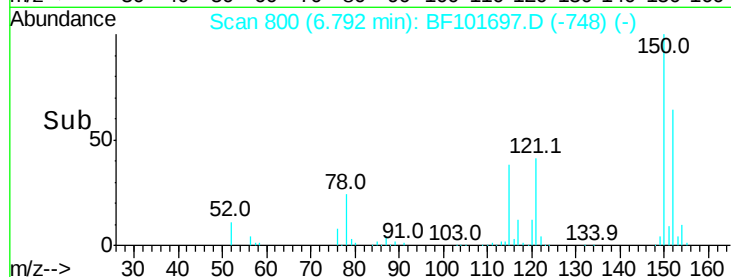
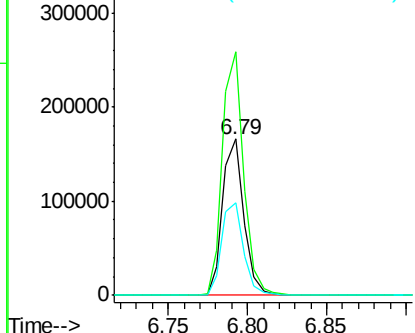
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 800  
Delta R.T. 0.01 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
WC-9974103-01

Tot Ion:152 Resp: 154349  
Ion Ratio Lower Upper  
152 100  
150 155.6 124.6 186.8  
115 59.5 50.1 75.1



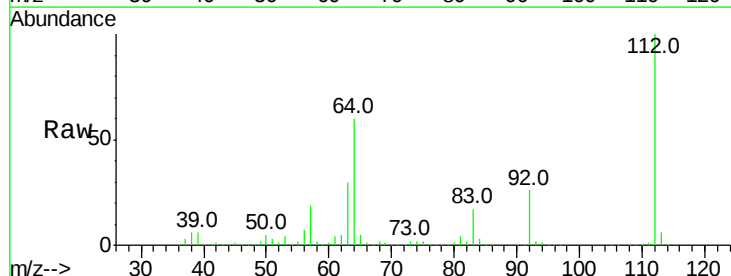
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



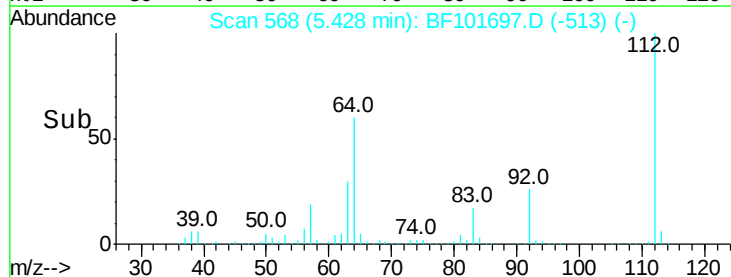
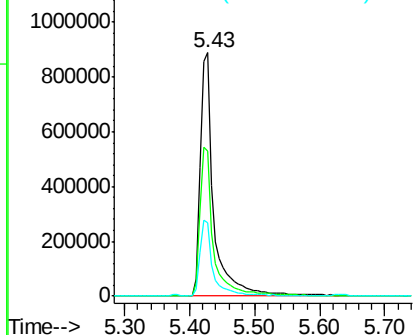
#5

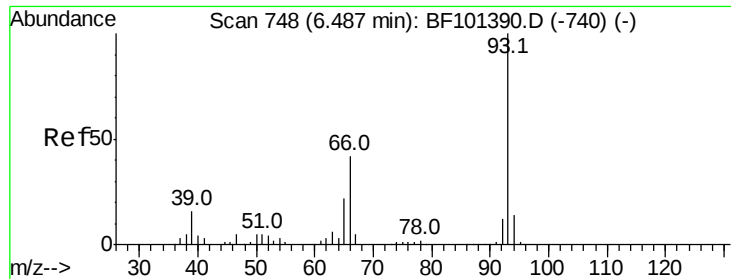
2-Fluorophenol  
Concen: 124.433 ng  
RT: 5.43 min Scan# 568  
Delta R.T. 0.02 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Tgt Ion:112 Resp: 1289367  
Ion Ratio Lower Upper  
112 100  
64 59.6 47.9 71.9  
63 30.3 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





#6

Aniline

Concen: 8.595 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.05 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Instrument :

BNA\_F

ClientSampleId :

WC-9974103-01

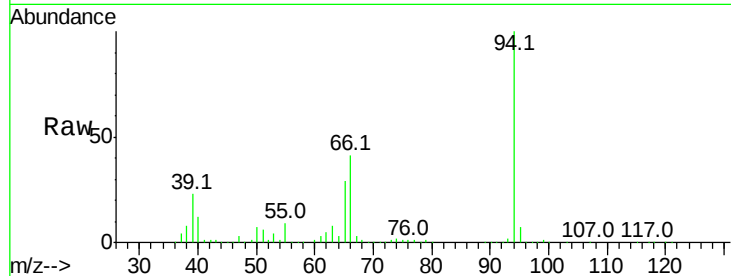
Tot Ion: 93 Resp: 154027

Ion Ratio Lower Upper

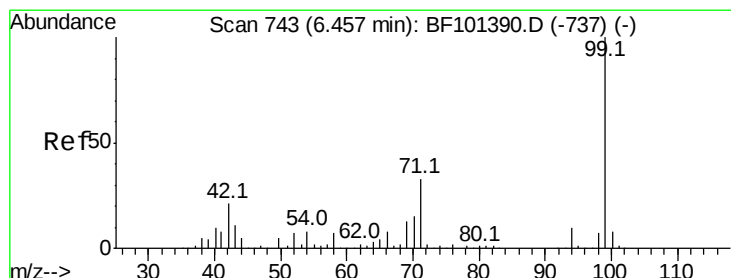
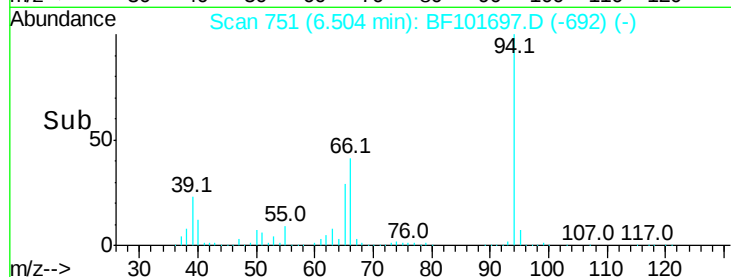
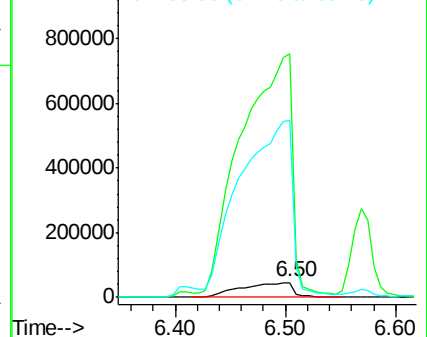
93 100

66 1676.9 32.2 48.2#

65 1215.3 16.4 24.6#



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: 81.252 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.02 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

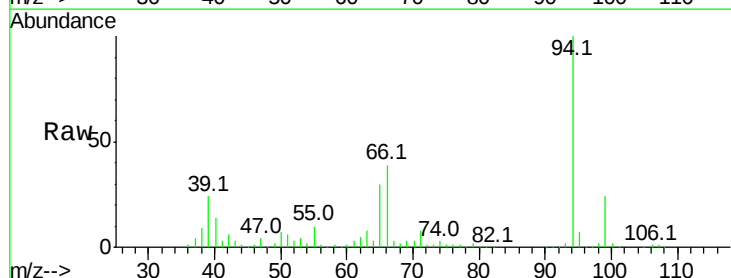
Tgt Ion: 99 Resp: 1047809

Ion Ratio Lower Upper

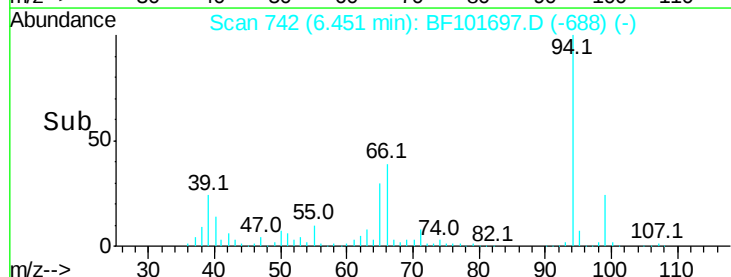
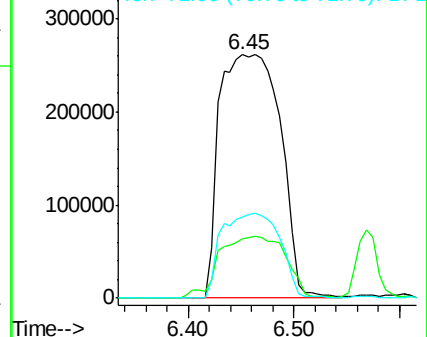
99 100

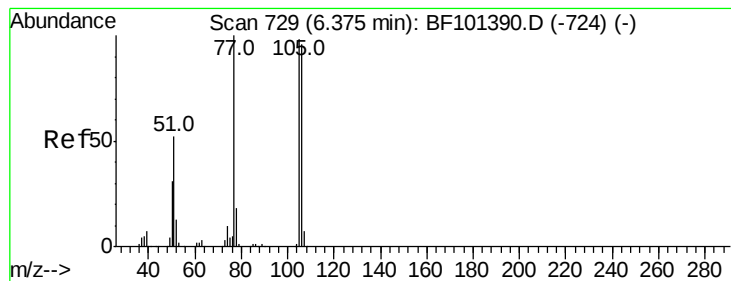
42 24.4 14.5 21.7#

71 33.5 25.4 38.0



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





#9

Benzaldehyde

Concen: 6.697 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.06 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Instrument :

BNA\_F

ClientSampleId :

WC-9974103-01

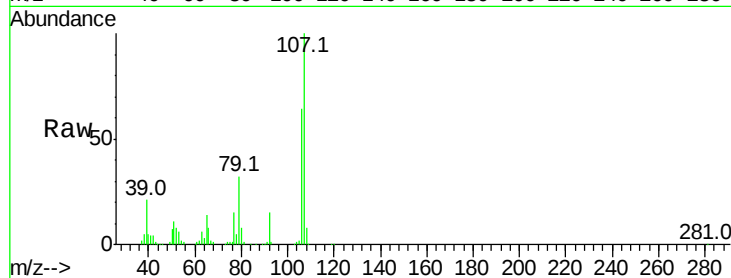
Tot Ion: 77 Resp: 63778

Ion Ratio Lower Upper

77 100

105 14.5 81.1 121.1#

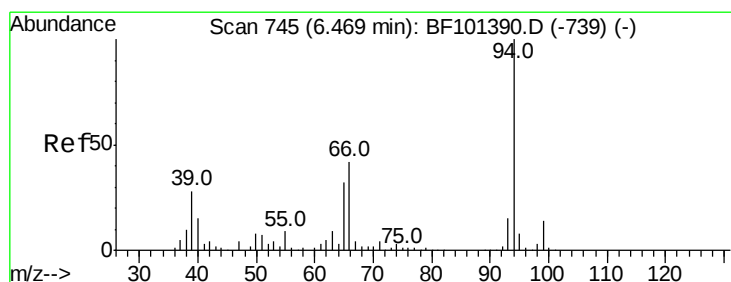
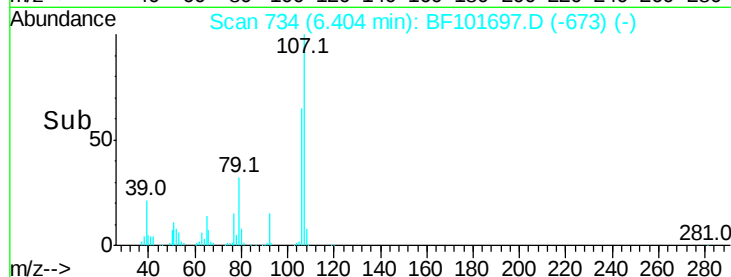
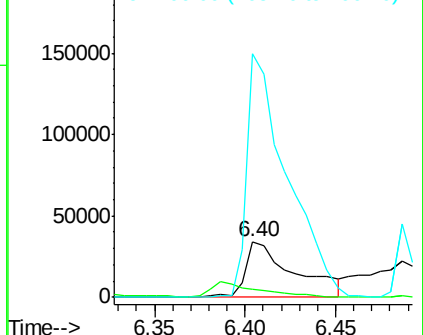
106 434.2 74.5 114.5#



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 420.851 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.06 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

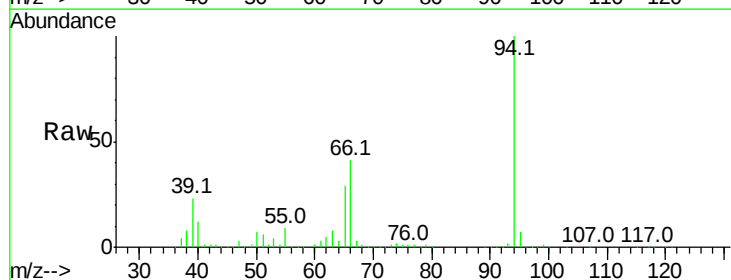
Tgt Ion: 94 Resp: 6185753

Ion Ratio Lower Upper

94 100

65 29.5 7.9 47.9

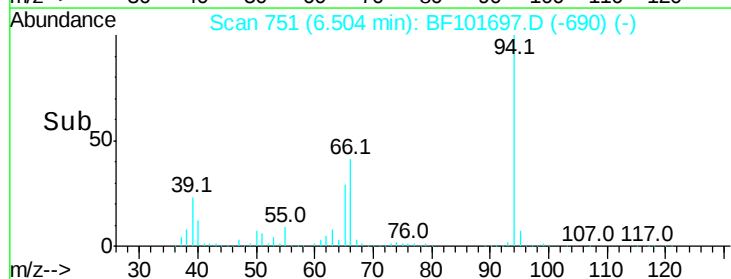
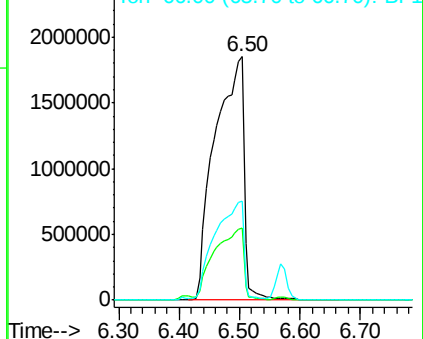
66 40.7 16.2 56.2

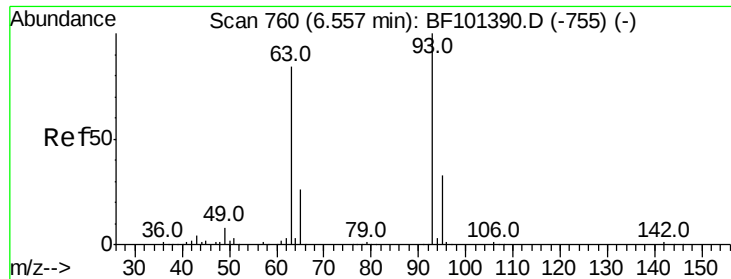


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

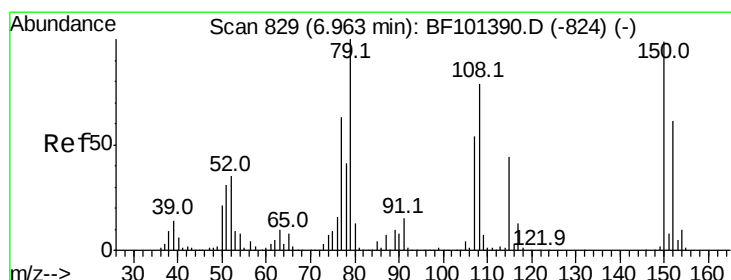
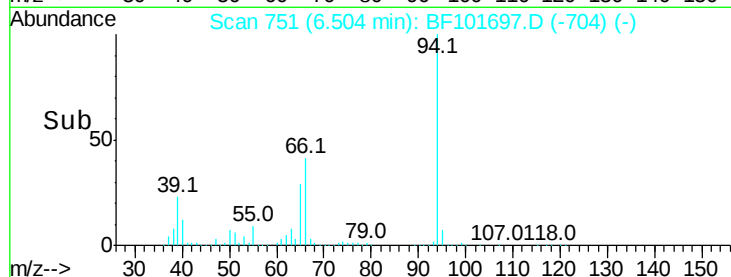
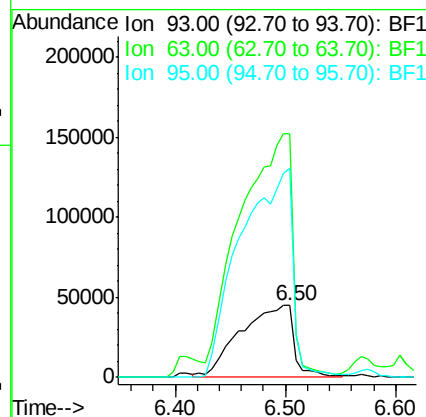
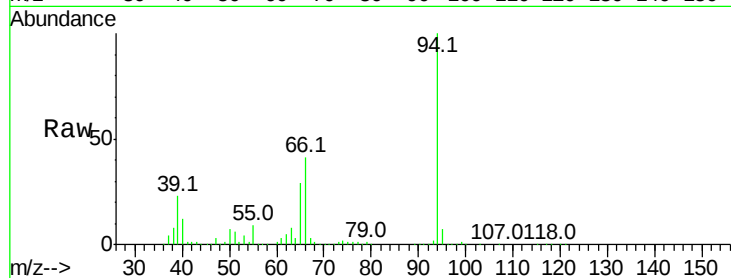




#11  
 bis(2-Chloroethyl)ether  
 Concen: 13.360 ng  
 RT: 6.50 min Scan# 751  
 Delta R.T. -0.02 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

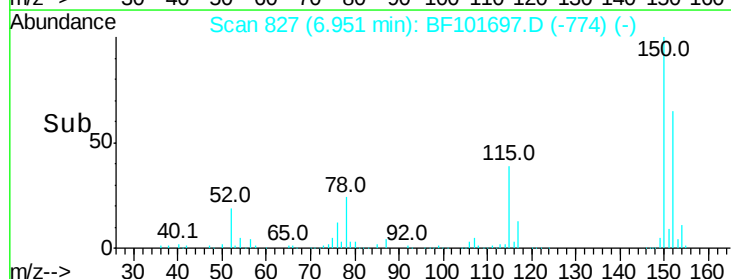
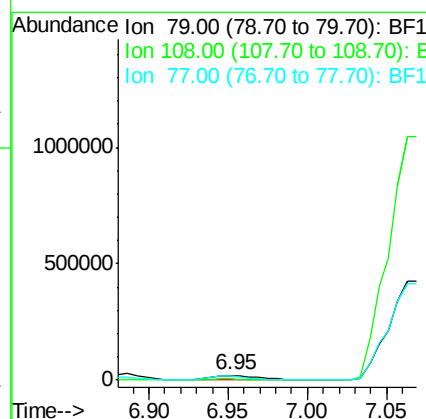
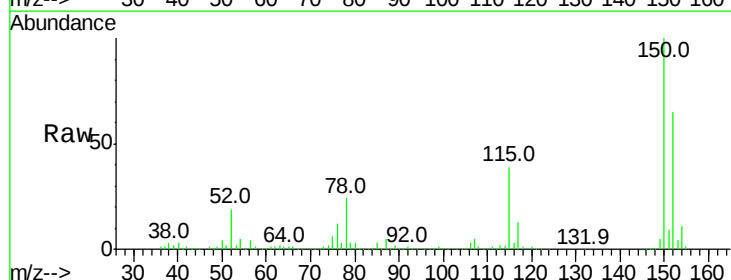
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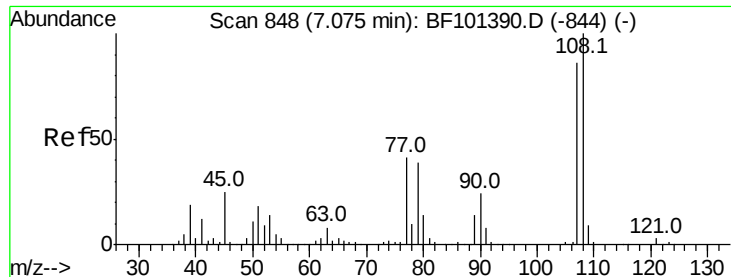
Tot Ion: 93 Resp: 154027  
 Ion Ratio Lower Upper  
 93 100  
 63 338.5 58.6 98.6#  
 95 290.7 11.8 51.8#



#15  
 Benzyl Alcohol  
 Concen: 4.616 ng  
 RT: 6.95 min Scan# 827  
 Delta R.T. 0.01 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Tgt Ion: 79 Resp: 40976  
 Ion Ratio Lower Upper  
 79 100  
 108 25.7 65.1 97.7#  
 77 89.3 50.6 75.8#

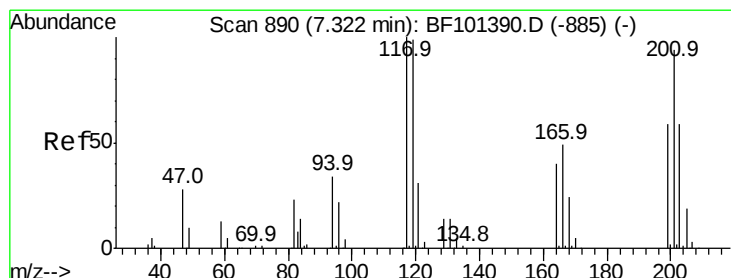
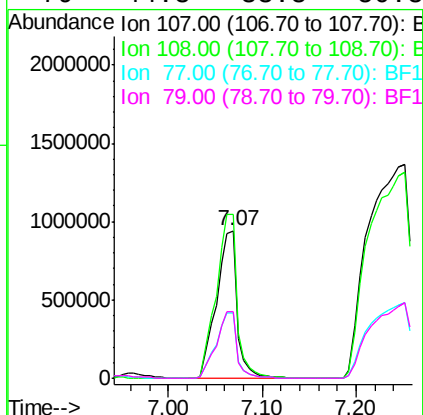
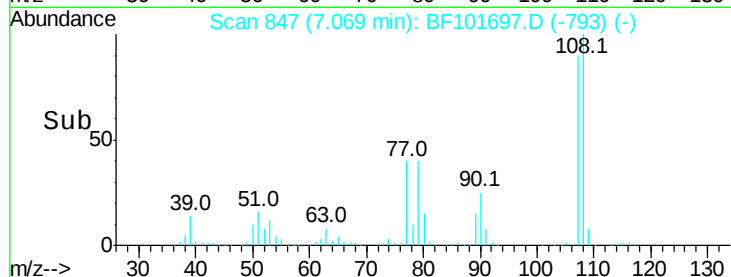
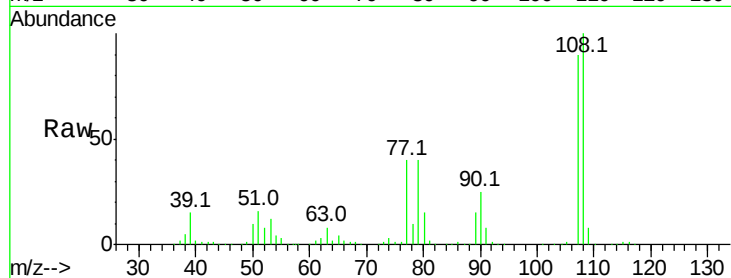




#17  
2-Methylphenol  
Concen: 144.727 ng  
RT: 7.07 min Scan# 847  
Delta R.T. 0.02 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

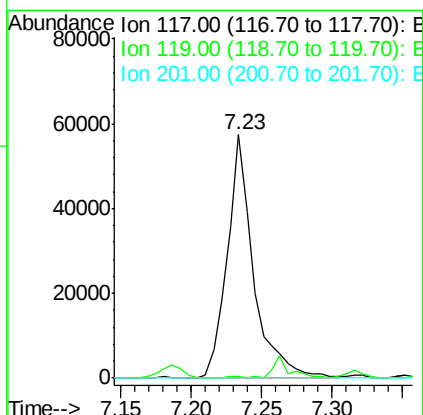
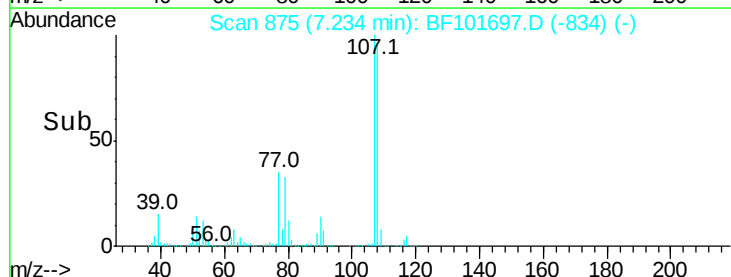
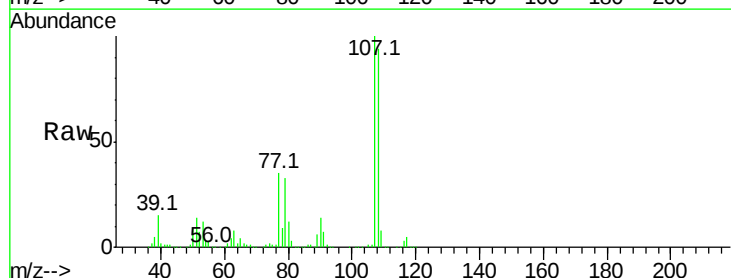
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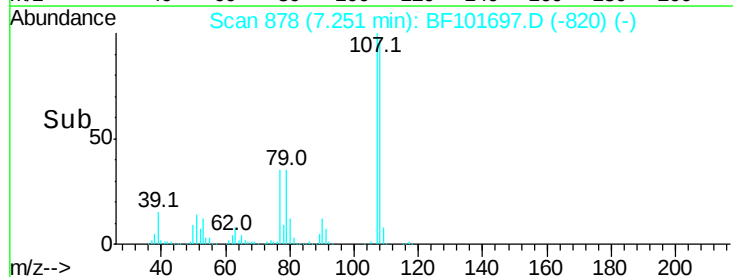
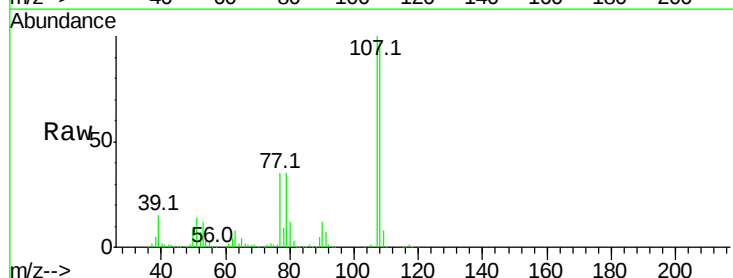
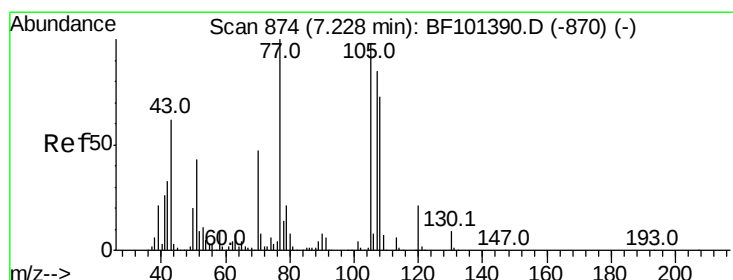
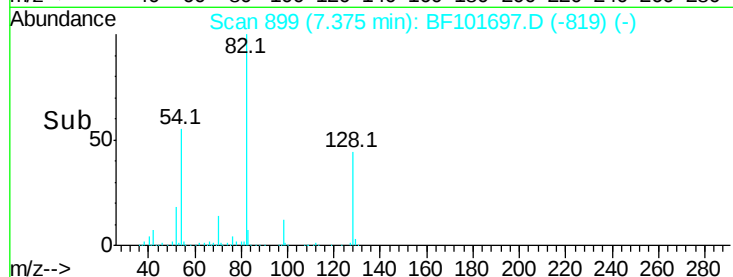
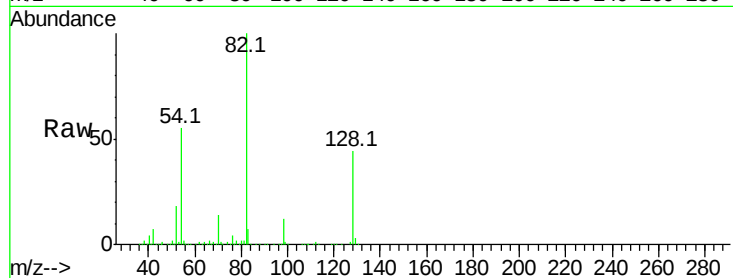
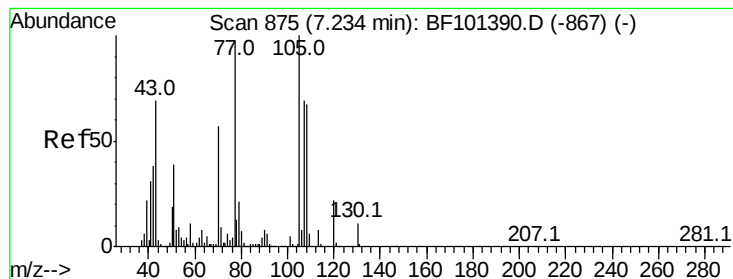
Tot Ion:107 Resp: 1451113  
Ion Ratio Lower Upper  
107 100  
108 110.9 91.7 137.5  
77 43.9 33.8 50.8  
79 44.8 33.8 50.8



#18  
Hexachloroethane  
Concen: 17.007 ng  
RT: 7.23 min Scan# 875  
Delta R.T. -0.06 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Tgt Ion:117 Resp: 74283  
Ion Ratio Lower Upper  
117 100  
119 0.6 75.8 113.8#  
201 0.0 75.7 113.5#





#19

n-Nitroso-di-n-propylamine

Concen: 16.664 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.17 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Instrument :

BNA\_F

ClientSampleId :

WC-9974103-01

Tot Ion: 70 Resp: 141128

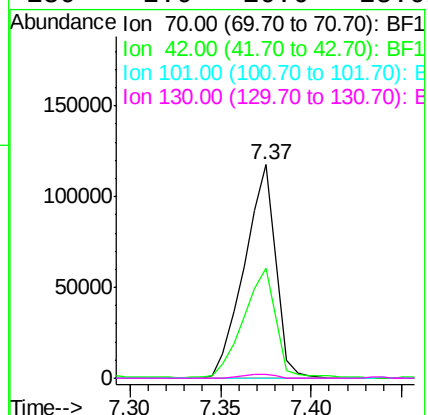
Ion Ratio Lower Upper

70 100

42 51.8 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#



#20

3+4-Methylphenols

Concen: 395.861 ng

RT: 7.25 min Scan# 878

Delta R.T. 0.04 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Tgt Ion:107 Resp: 4205983

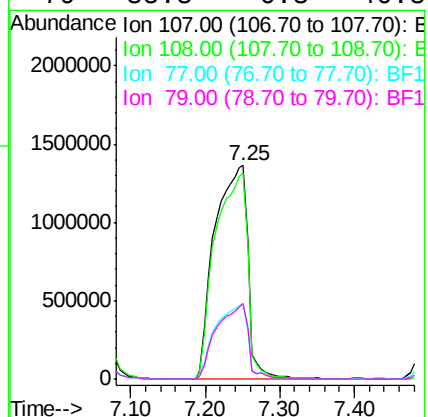
Ion Ratio Lower Upper

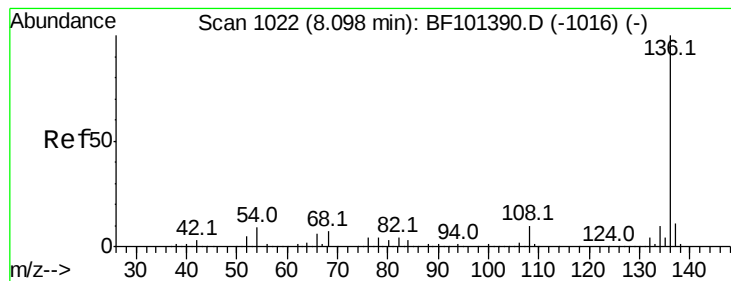
107 100

108 96.5 68.2 108.2

77 35.2 26.7 66.7

79 35.3 6.3 46.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. 0.01 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Instrument :

BNA\_F

ClientSampleId :

WC-9974103-01

Tot Ion:136 Resp: 459739

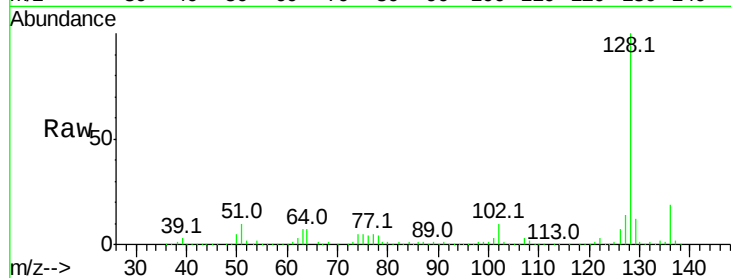
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 9.1 6.6 9.8

68 6.7 5.0 7.4

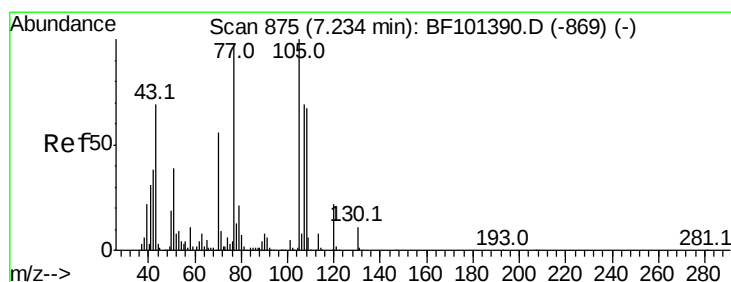
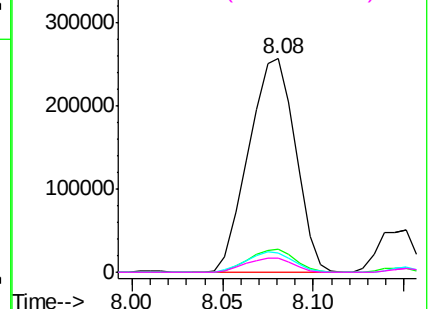
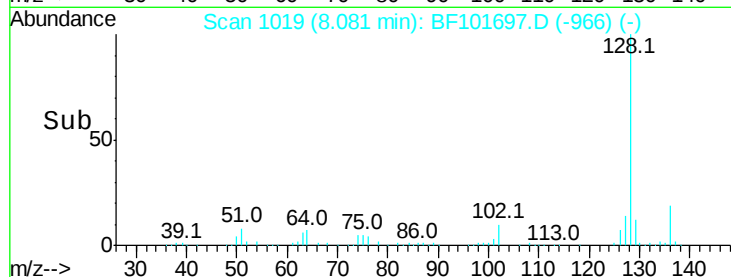


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#22

Acetophenone

Concen: 4.963 ng

RT: 7.25 min Scan# 878

Delta R.T. 0.05 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Tgt Ion:105 Resp: 52062

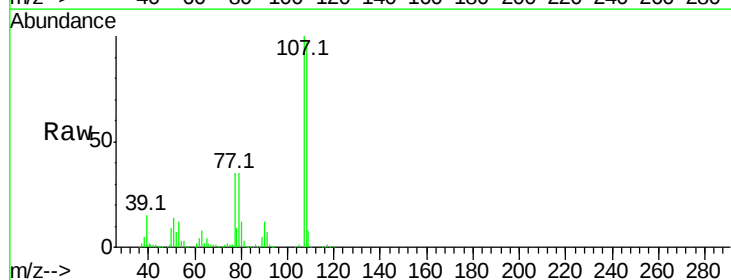
Ion Ratio Lower Upper

105 100

71 0.0 4.4 6.6#

51 1222.6 22.3 33.5#

120 4.2 16.9 25.3#

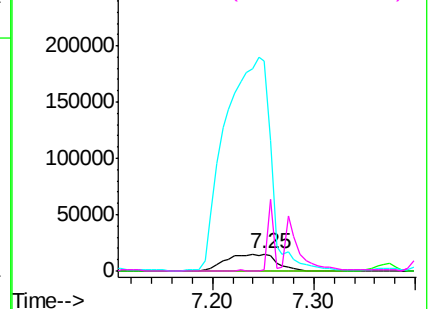
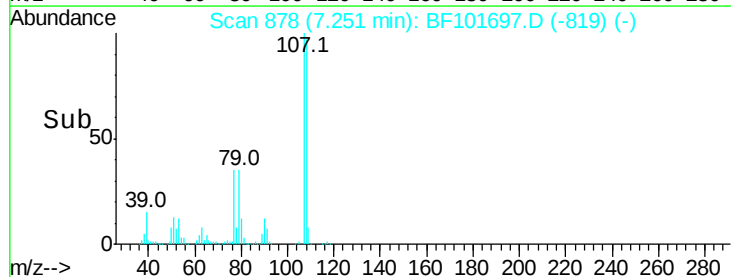


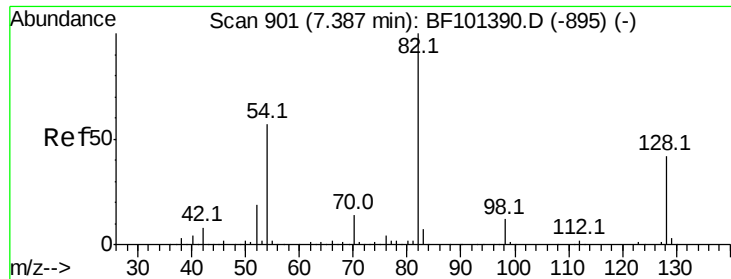
Abundance Ion 105.00 (104.70 to 105.70): E

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

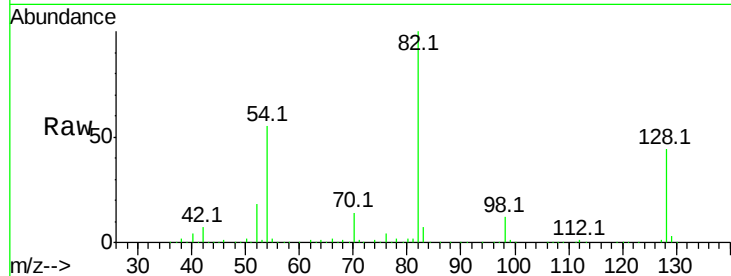




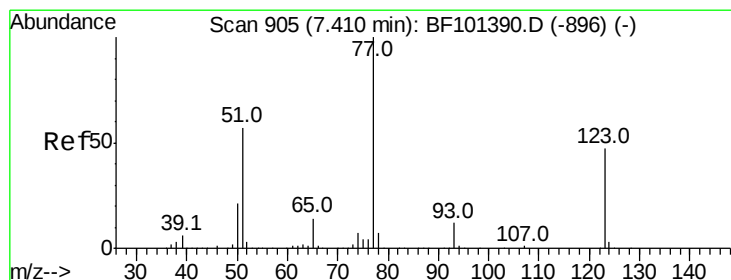
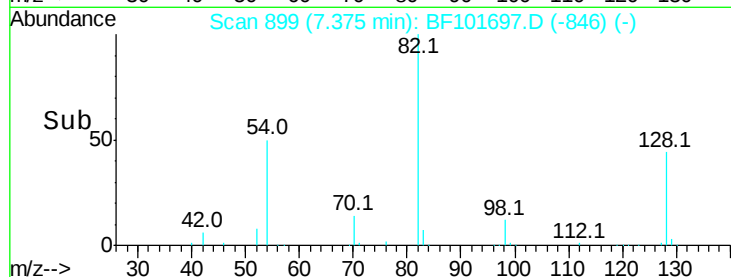
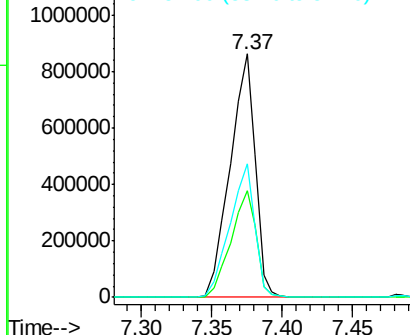
#23  
 Nitrobenzene-d5  
 Concen: 129.149 ng  
 RT: 7.37 min Scan# 899  
 Delta R.T. 0.01 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

Tot Ion: 82 Resp: 1066632  
 Ion Ratio Lower Upper  
 82 100  
 128 43.9 36.1 54.1  
 54 54.7 41.4 62.2

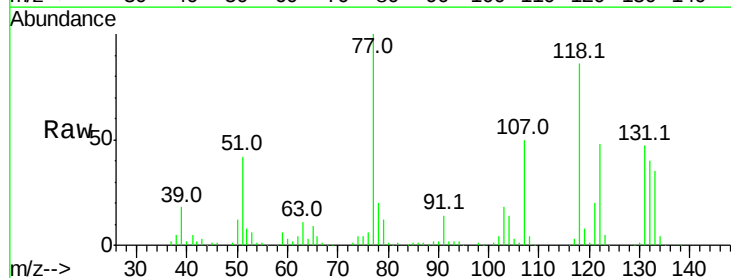


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

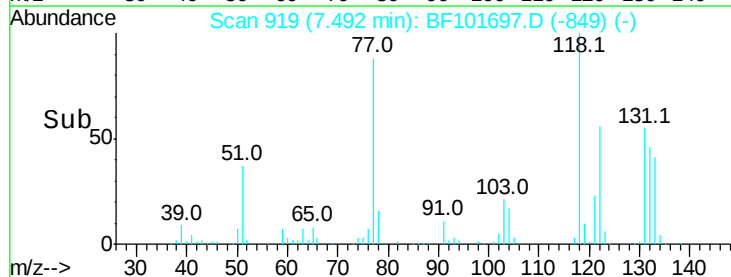
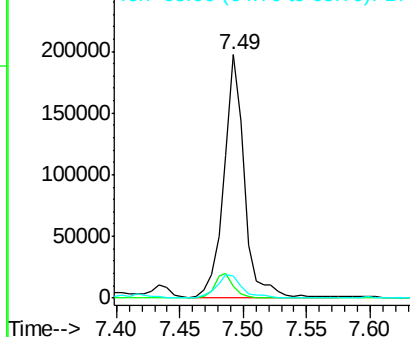


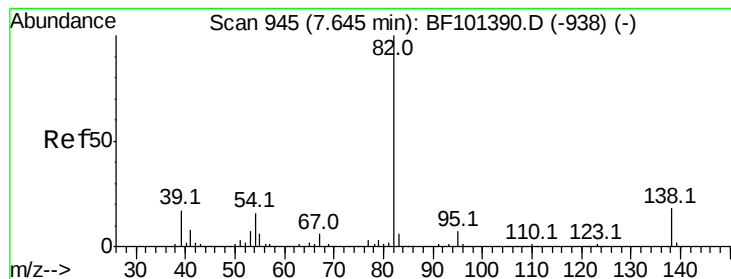
#24  
 Nitrobenzene  
 Concen: 23.893 ng  
 RT: 7.49 min Scan# 919  
 Delta R.T. 0.11 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Tgt Ion: 77 Resp: 218399  
 Ion Ratio Lower Upper  
 77 100  
 123 5.0 37.9 56.9#  
 65 9.0 11.0 16.4#



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: 64.389 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.24 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Instrument :

BNA\_F

ClientSampleId :

WC-9974103-01

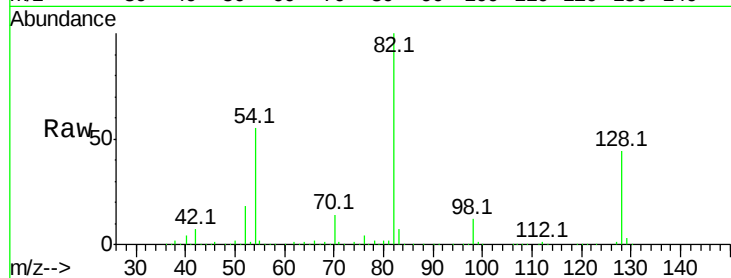
Tot Ion: 82 Resp: 1066790

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

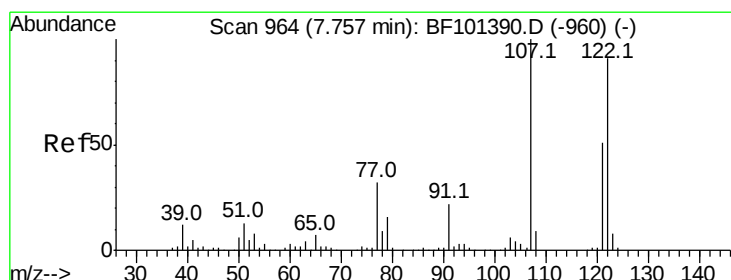
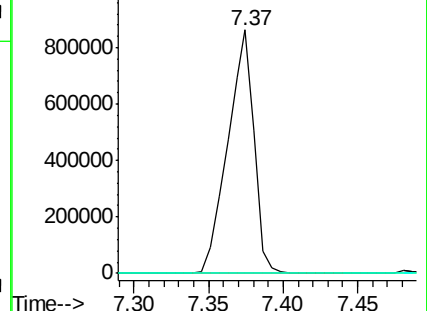
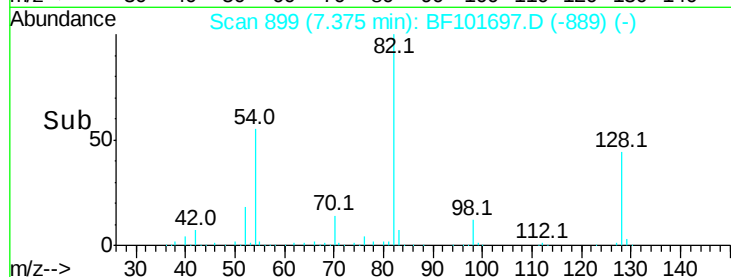
138 0.0 14.9 22.3#



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



#27

2,4-Dimethylphenol

Concen: 179.379 ng

RT: 7.76 min Scan# 964

Delta R.T. 0.02 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

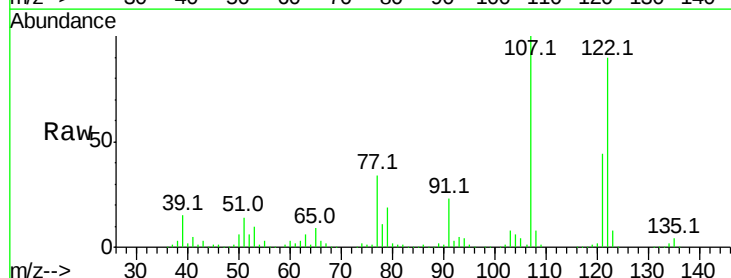
Tgt Ion:122 Resp: 1196699

Ion Ratio Lower Upper

122 100

107 111.2 91.2 136.8

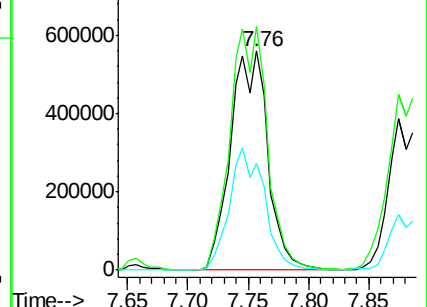
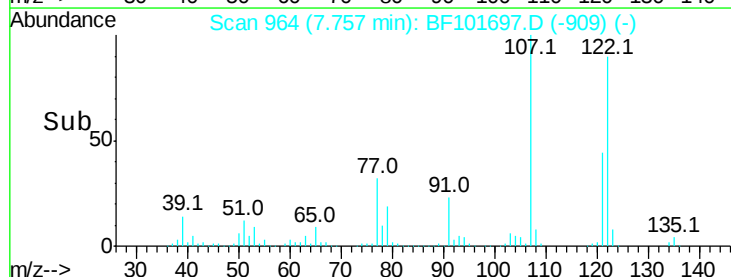
121 48.8 47.2 70.8

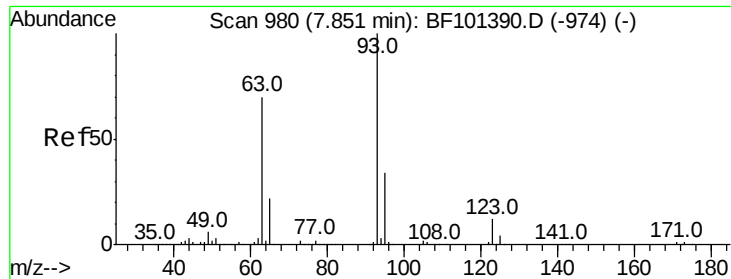


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

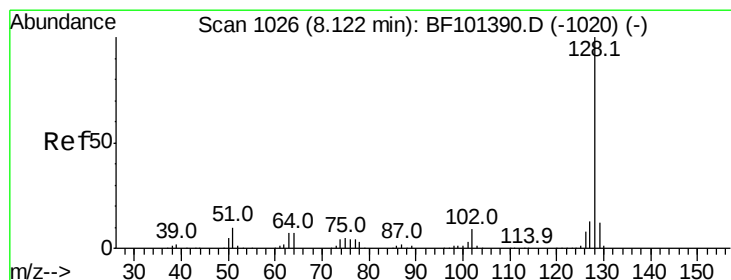
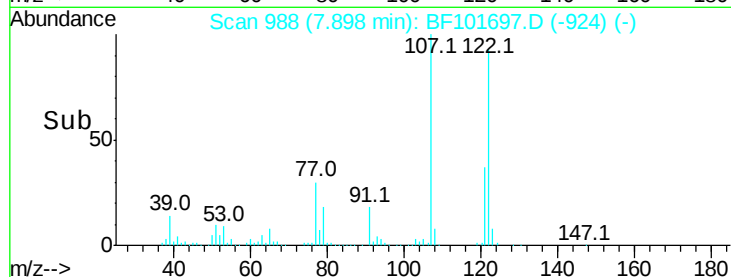
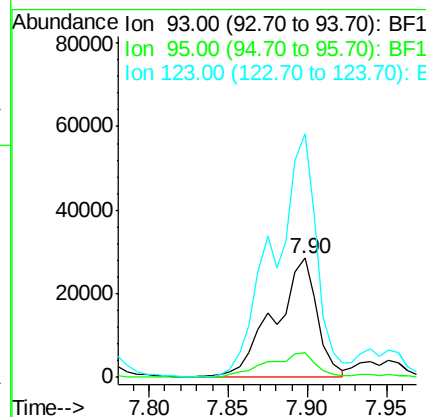
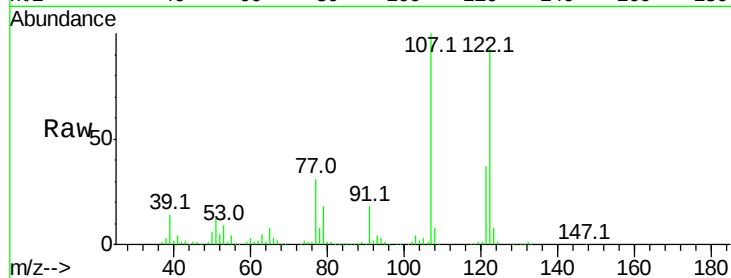




#28  
bis(2-Chloroethoxy)methane  
Concen: 5.070 ng  
RT: 7.90 min Scan# 988  
Delta R.T. 0.08 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

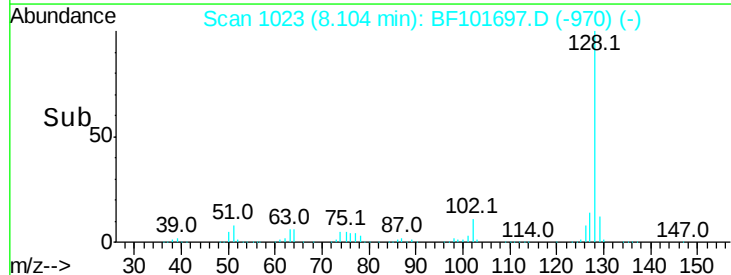
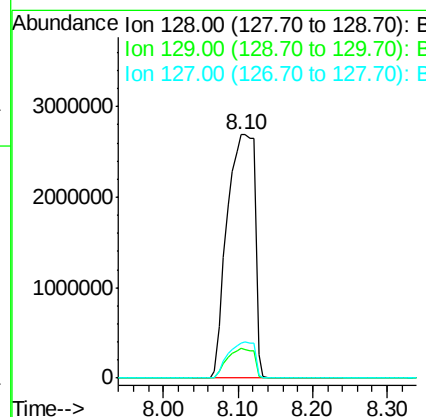
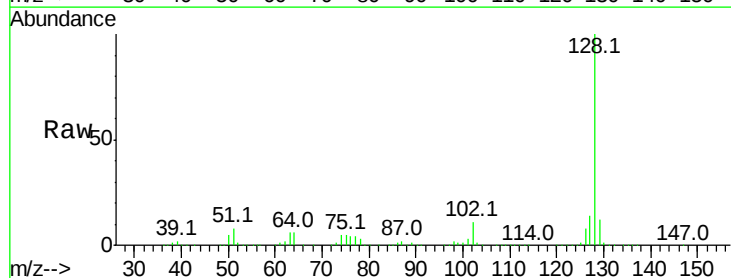
Instrument :  
BNA\_F  
ClientSampleId :  
WC-9974103-01

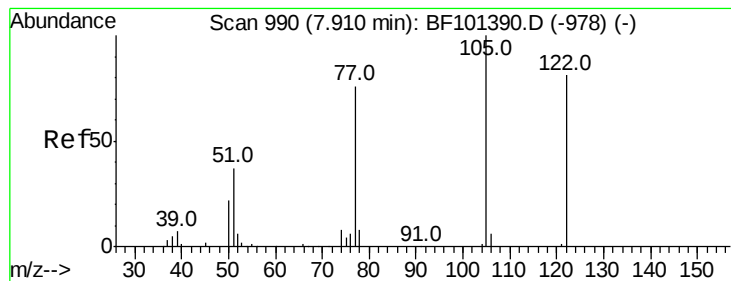
Tot Ion: 93 Resp: 53363  
Ion Ratio Lower Upper  
93 100  
95 20.3 26.3 39.5#  
123 204.6 9.8 14.6#



#31  
Naphthalene  
Concen: 300.507 ng  
RT: 8.10 min Scan# 1023  
Delta R.T. 0.01 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Tgt Ion: 128 Resp: 6955227  
Ion Ratio Lower Upper  
128 100  
129 12.0 8.8 13.2  
127 14.4 10.9 16.3





#32

Benzoic acid

Concen: 241.255 ng

RT: 7.90 min Scan# 988

Delta R.T. 0.01 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Instrument :

BNA\_F

ClientSampleId :

WC-9974103-01

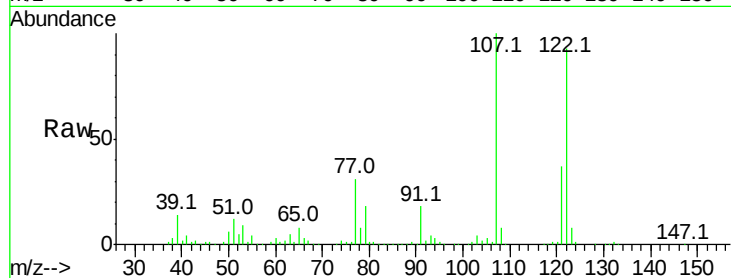
Tot Ion:122 Resp: 1257204

Ion Ratio Lower Upper

122 100

105 3.5 101.1 141.1#

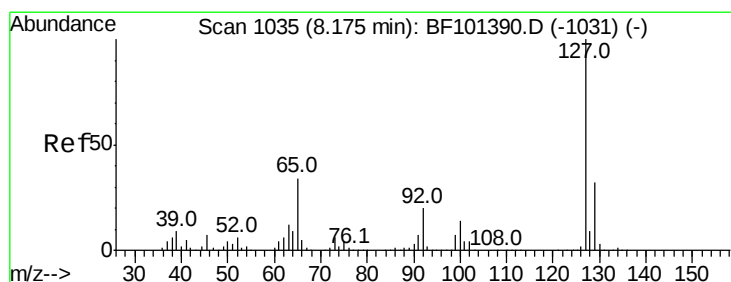
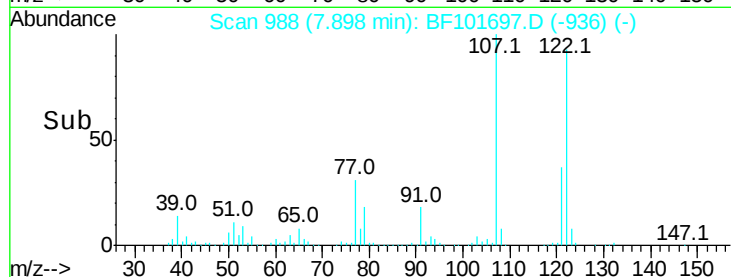
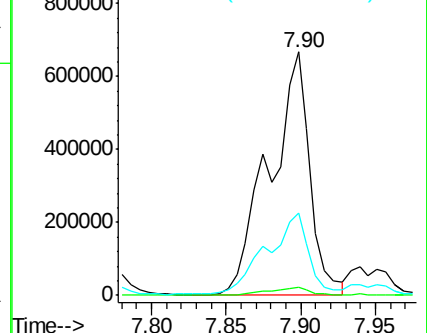
77 33.6 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#33

4-Chloroaniline

Concen: 98.557 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.04 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Tgt Ion:127 Resp: 991444

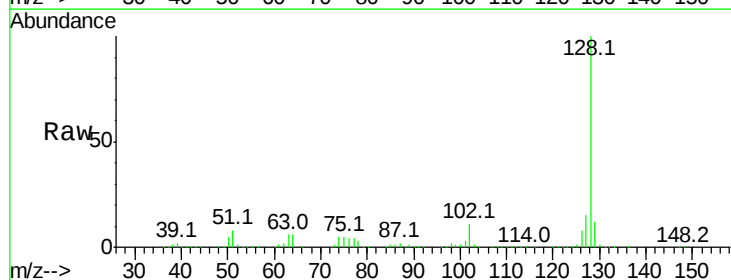
Ion Ratio Lower Upper

127 100

129 81.8 25.9 38.9#

65 0.0 25.0 37.4#

92 0.3 15.2 22.8#

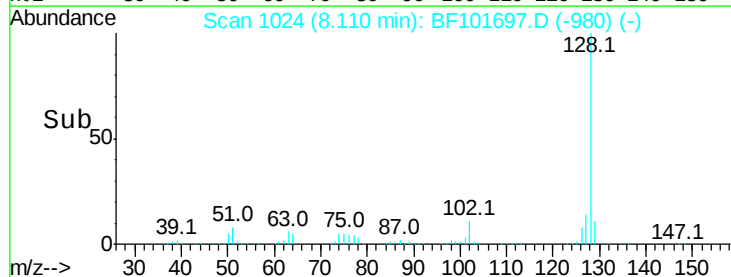
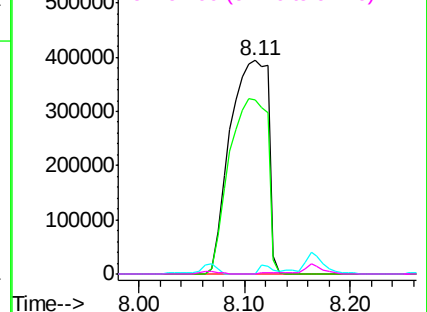


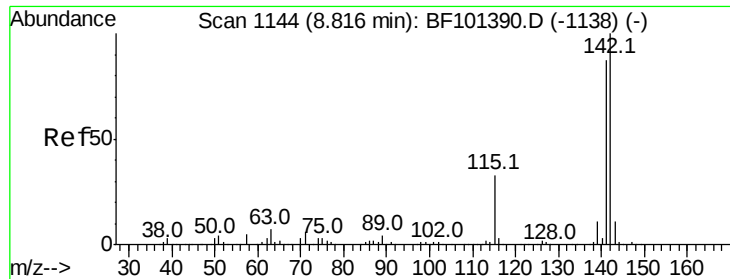
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

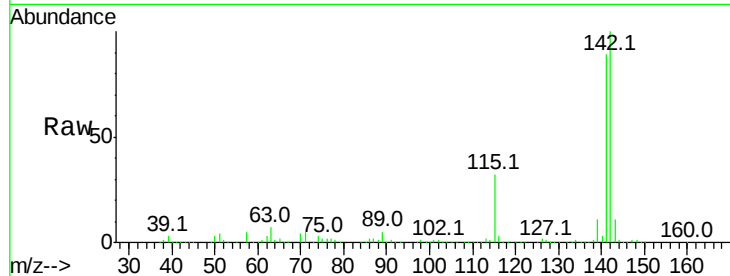




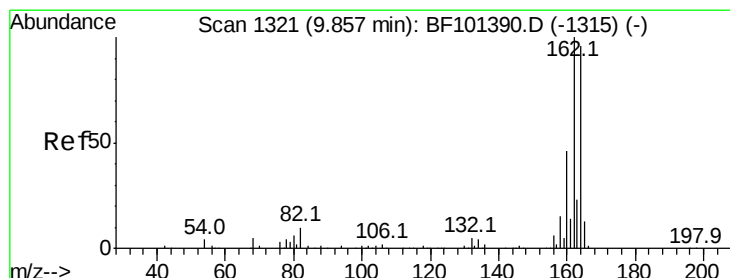
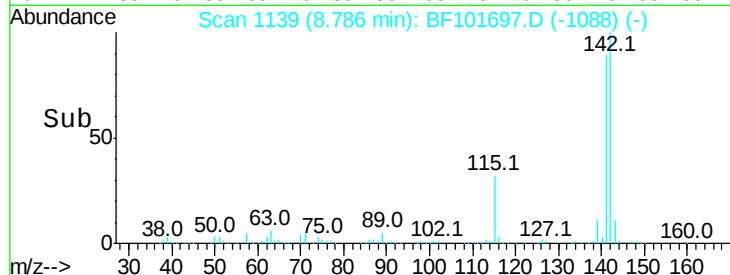
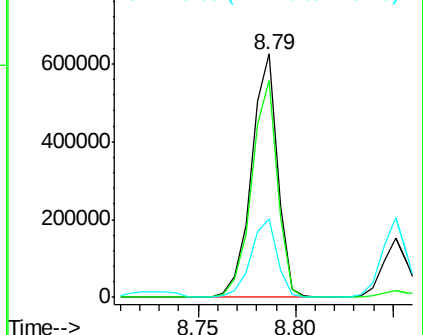
#37  
2-Methylnaphthalene  
Concen: 38.406 ng  
RT: 8.79 min Scan# 1139  
Delta R.T. 0.00 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
WC-9974103-01

Tot Ion:142 Resp: 579143  
Ion Ratio Lower Upper  
142 100  
141 89.3 70.8 106.2  
115 32.5 26.1 39.1

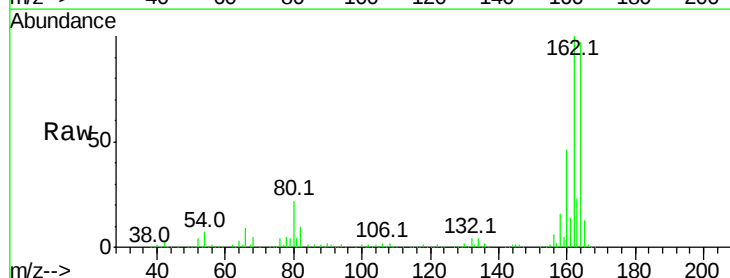


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

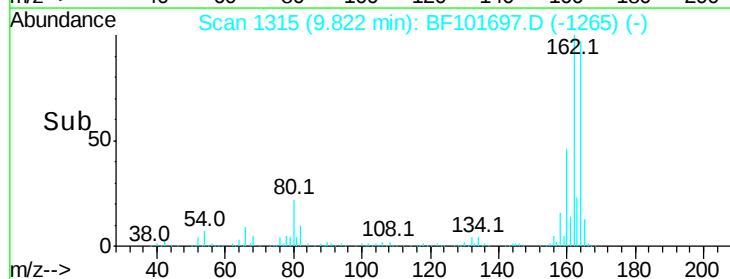
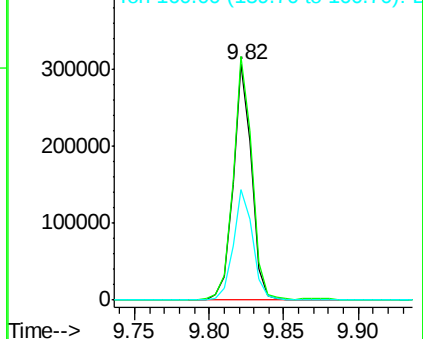


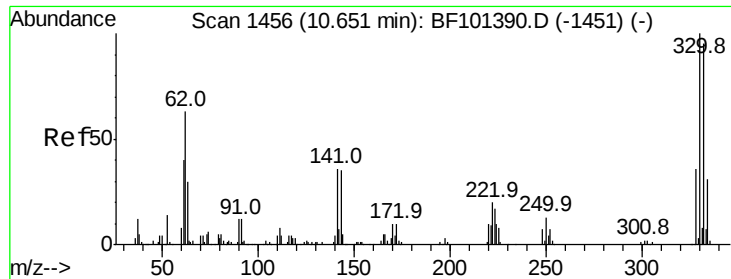
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.01 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Tgt Ion:164 Resp: 265961  
Ion Ratio Lower Upper  
164 100  
162 103.3 86.1 129.1  
160 47.2 38.3 57.5



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

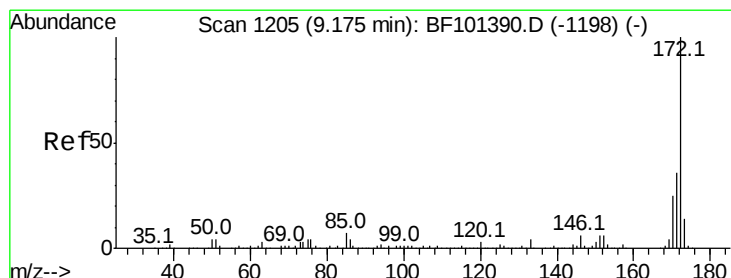
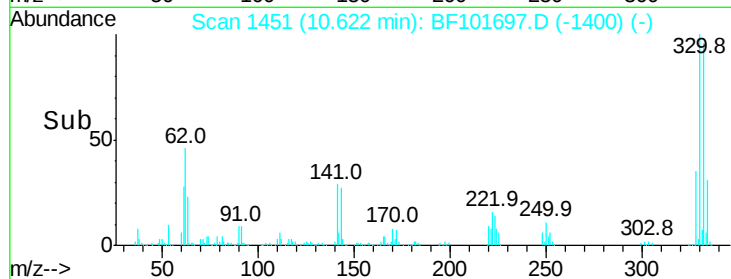
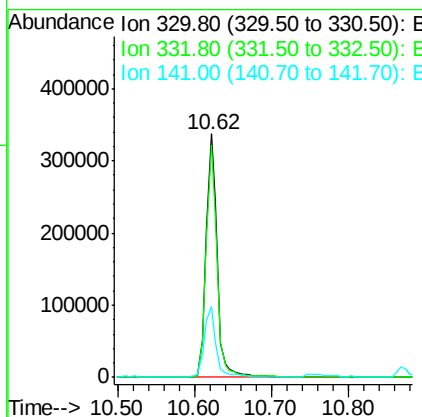
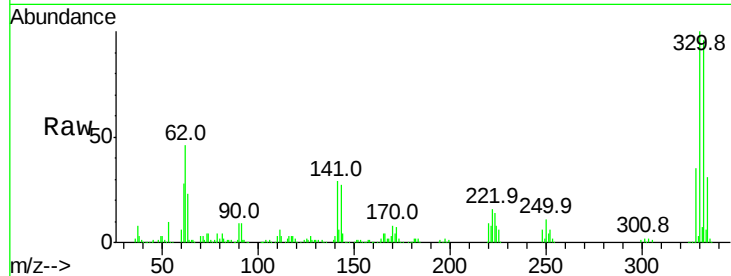




#41  
 2,4,6-Tribromophenol  
 Concen: 131.861 ng  
 RT: 10.62 min Scan# 1451  
 Delta R.T. 0.00 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

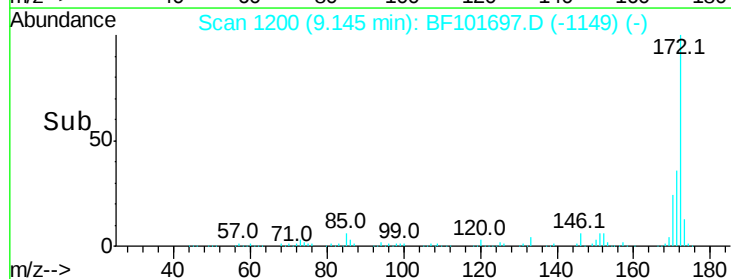
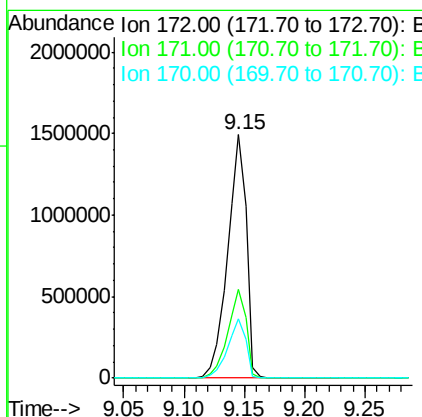
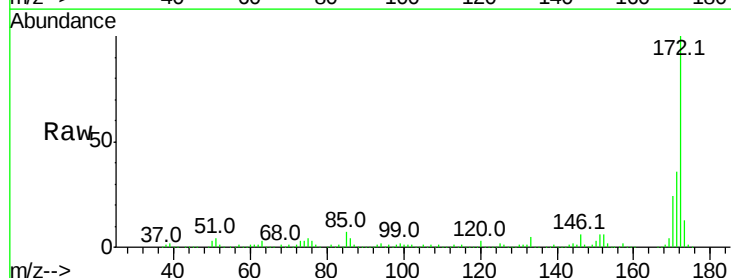
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

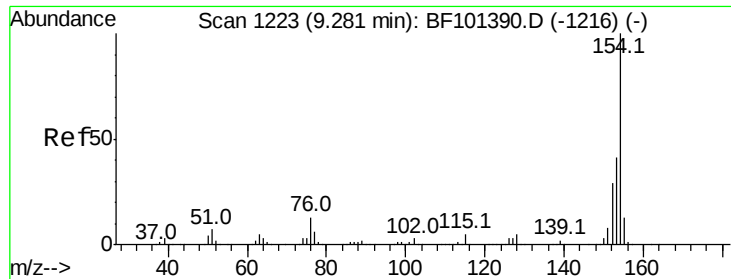
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.9  | 77.0  | 115.6 |
| 141     | 31.5  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 93.175 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. 0.00 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 24.5  | 19.6  | 29.4  |

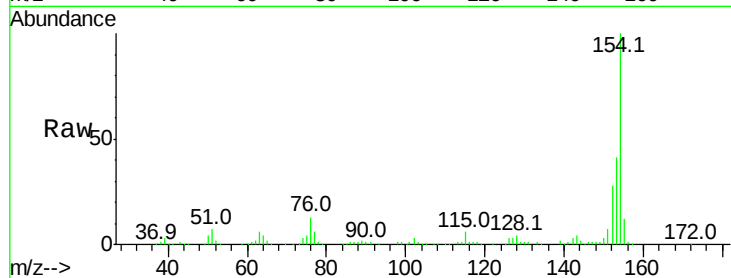




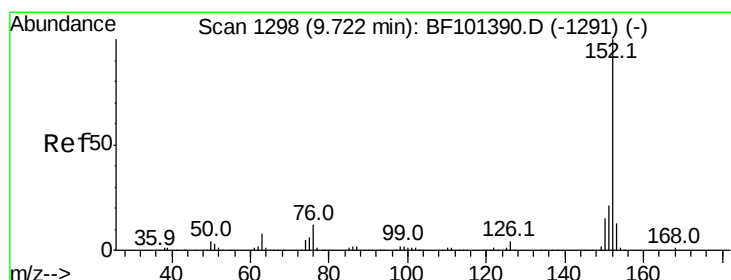
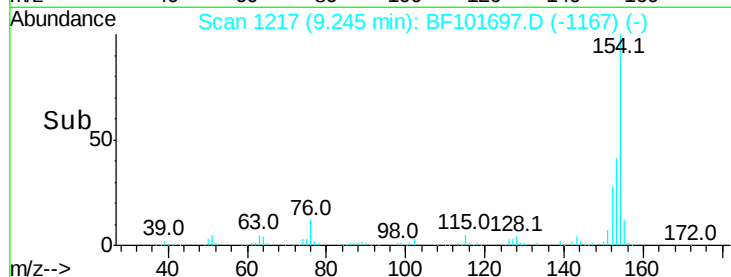
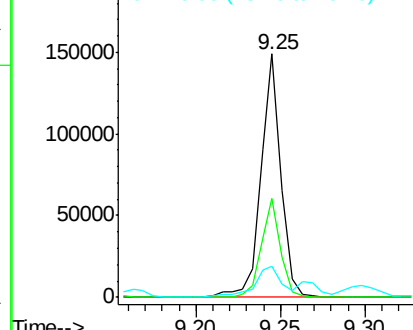
#45  
1,1'-Biphenyl  
Concen: 5.219 ng  
RT: 9.25 min Scan# 1217  
Delta R.T. -0.01 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
WC-9974103-01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 154   | Resp: | 123106 |
| Ion      | Ratio | Lower | Upper  |
| 154      | 100   |       |        |
| 153      | 40.5  | 21.3  | 61.3   |
| 76       | 12.9  | 0.0   | 34.0   |

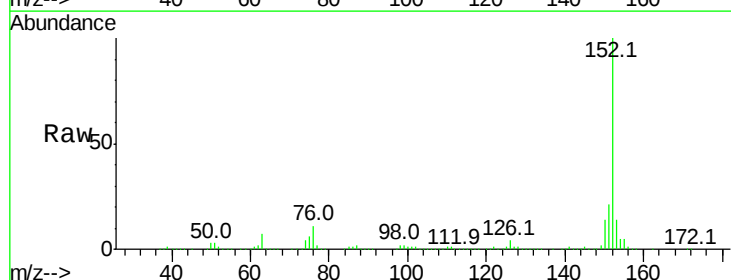


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1

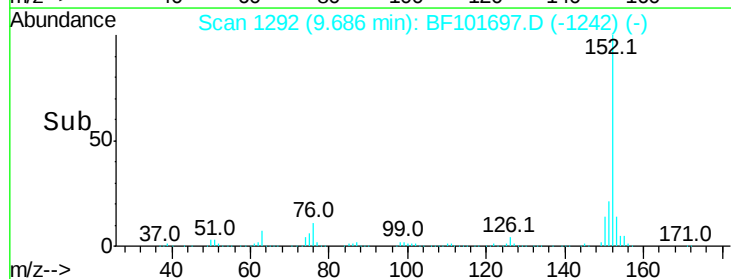
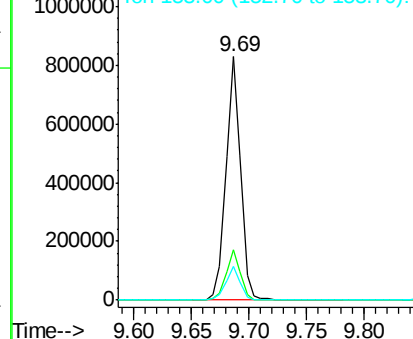


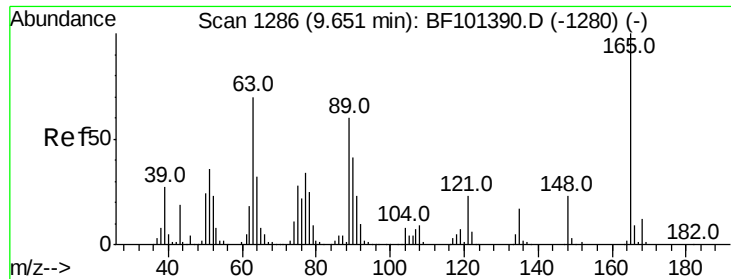
#48  
Acenaphthylene  
Concen: 25.682 ng  
RT: 9.69 min Scan# 1292  
Delta R.T. -0.01 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 732083 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 151      | 20.8  | 16.3  | 24.5   |
| 153      | 13.6  | 10.7  | 16.1   |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

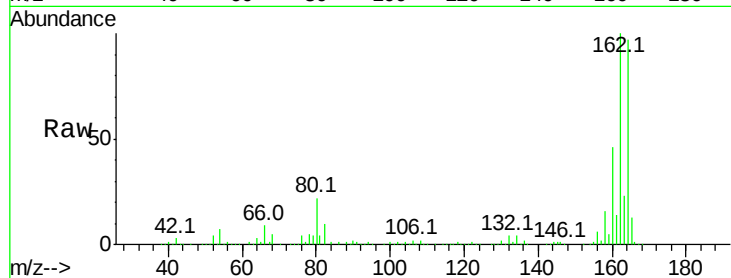




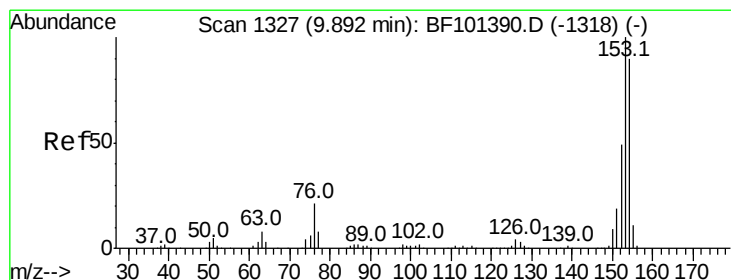
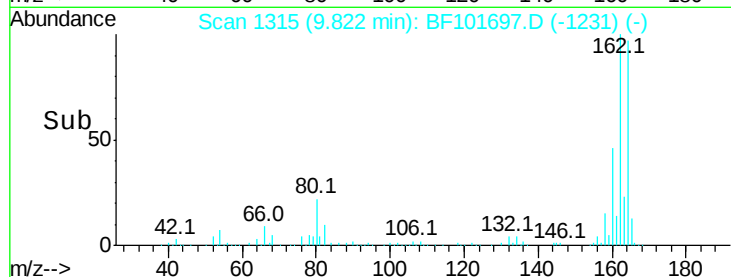
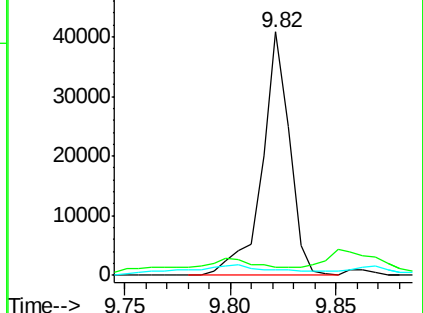
#50  
 2,6-Dinitrotoluene  
 Concen: 8.467 ng  
 RT: 9.82 min Scan# 1315  
 Delta R.T. 0.19 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

Tot Ion:165 Resp: 36816  
 Ion Ratio Lower Upper  
 165 100  
 63 3.1 44.7 67.1#  
 89 2.1 44.0 66.0#

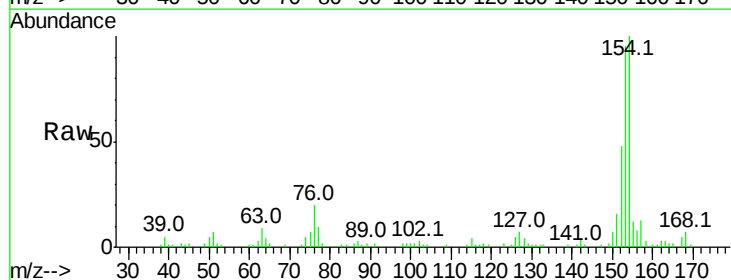


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

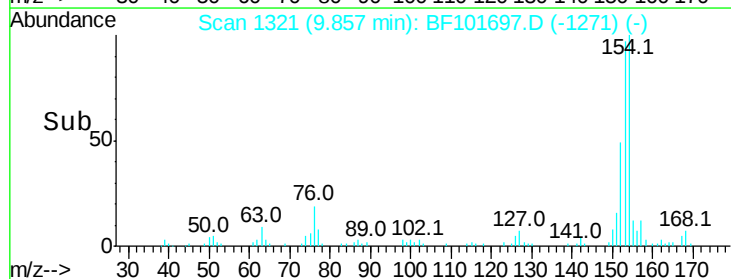
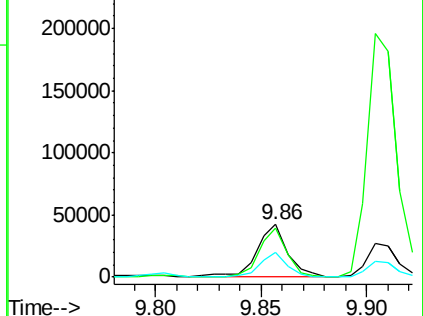


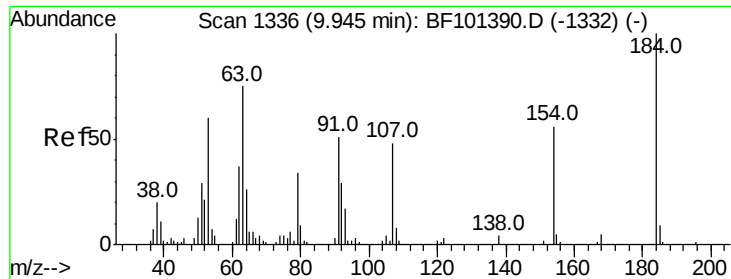
#51  
 Acenaphthene  
 Concen: 2.429 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. -0.01 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Tgt Ion:154 Resp: 41605  
 Ion Ratio Lower Upper  
 154 100  
 153 94.7 91.2 136.8  
 152 48.2 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E

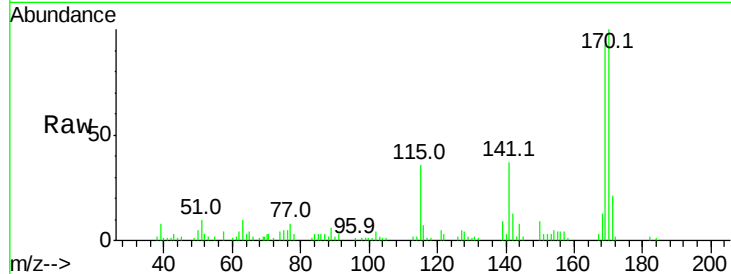




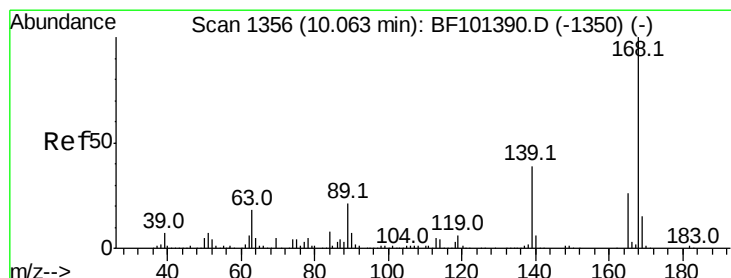
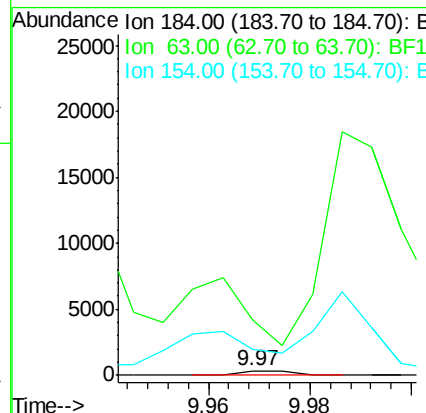
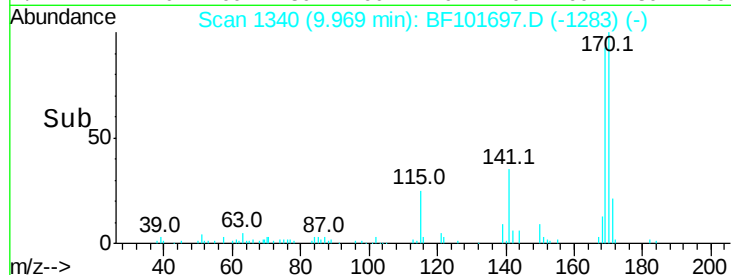
#53  
 2,4-Dinitrophenol  
 Concen: 10.449 ng  
 RT: 9.97 min Scan# 1340  
 Delta R.T. 0.04 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

Tot Ion:184 Resp: 223  
 Ion Ratio Lower Upper  
 184 100  
 63 1326.3 54.2 81.2#  
 154 620.0 184.0 276.0#

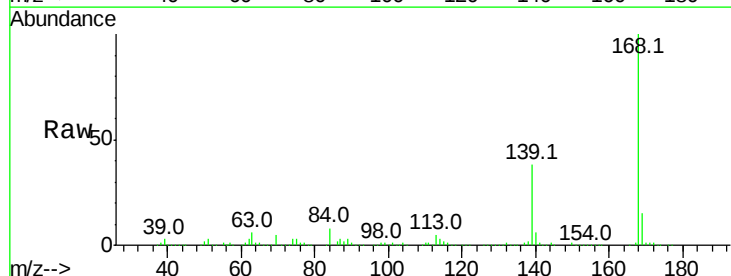


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 154.00 (153.70 to 154.70): E

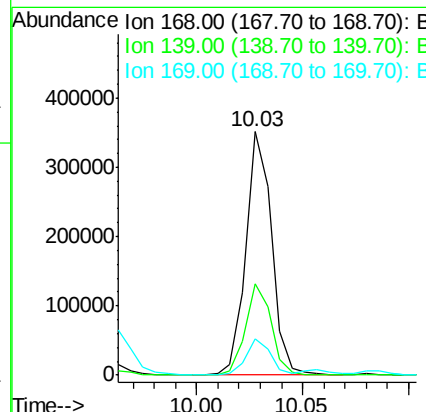
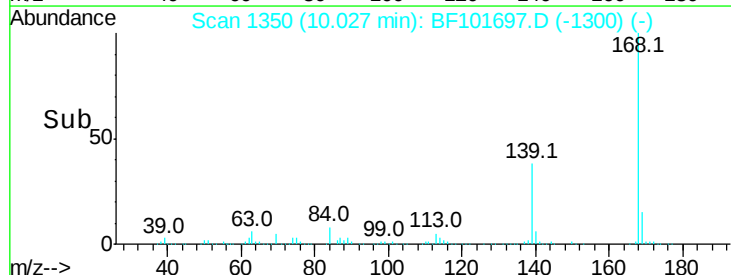


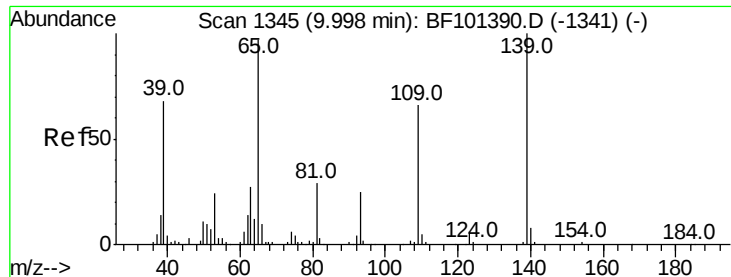
#54  
 Dibenzofuran  
 Concen: 13.550 ng  
 RT: 10.03 min Scan# 1350  
 Delta R.T. -0.01 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Tgt Ion:168 Resp: 294905  
 Ion Ratio Lower Upper  
 168 100  
 139 37.7 30.1 45.1  
 169 14.7 10.9 16.3



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

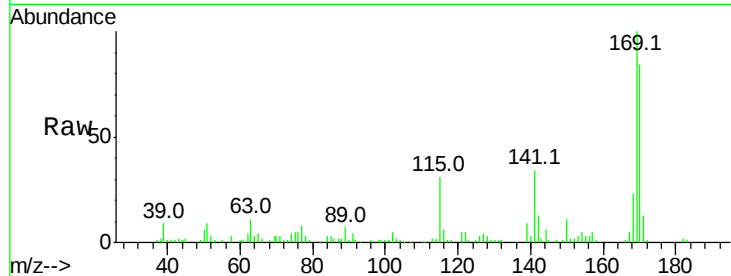




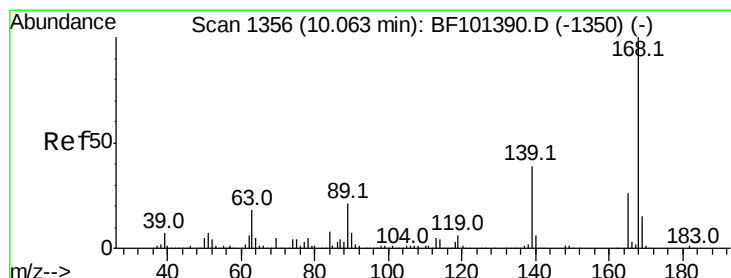
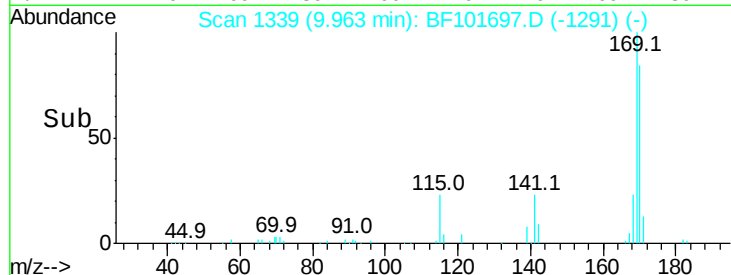
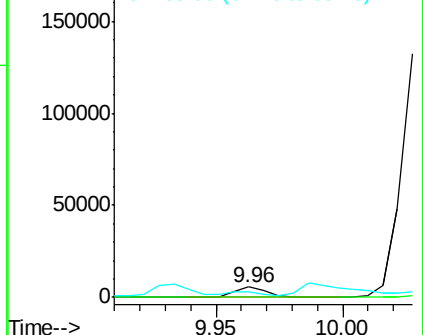
#55  
4-Nitrophenol  
Concen: 2.257 ng  
RT: 9.96 min Scan# 1339  
Delta R.T. -0.02 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
WC-9974103-01

Tot Ion:139 Resp: 5336  
Ion Ratio Lower Upper  
139 100  
109 0.0 48.4 88.4#  
65 47.7 72.6 112.6#

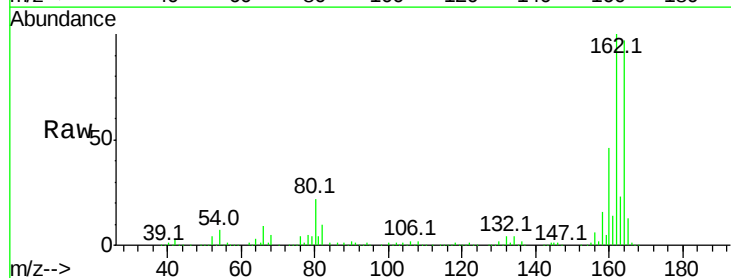


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

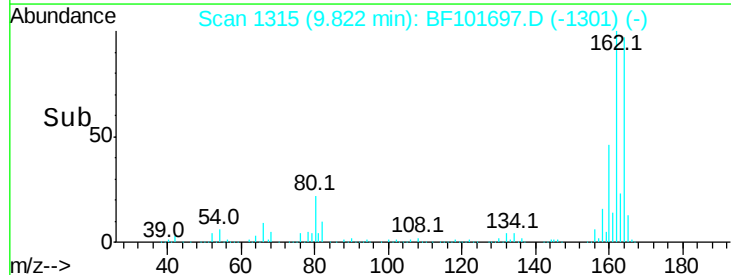
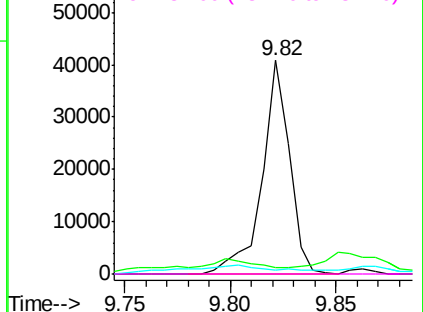


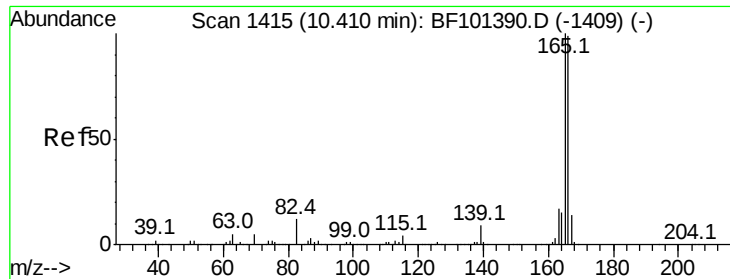
#56  
2,4-Dinitrotoluene  
Concen: 7.515 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.22 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Tgt Ion:165 Resp: 36816  
Ion Ratio Lower Upper  
165 100  
63 3.1 36.4 54.6#  
89 2.1 57.8 86.6#  
182 0.0 1.6 2.4#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

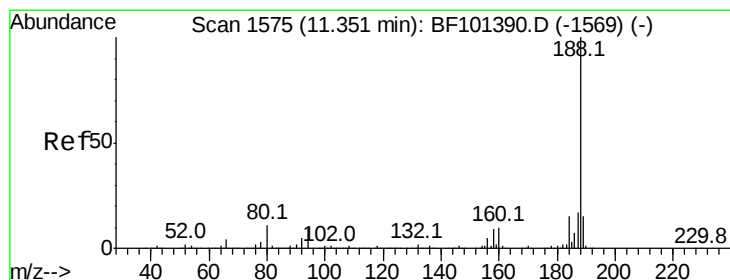
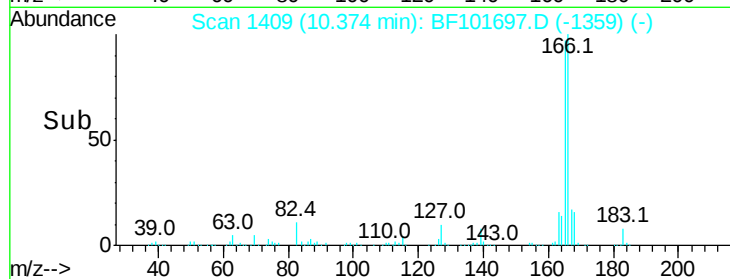
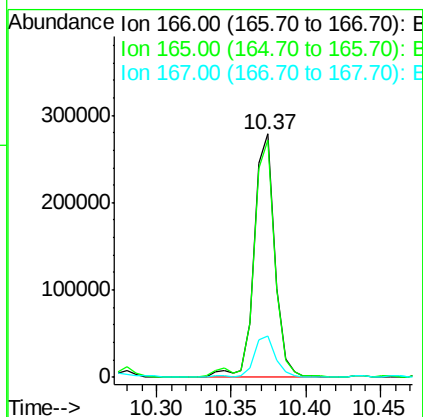
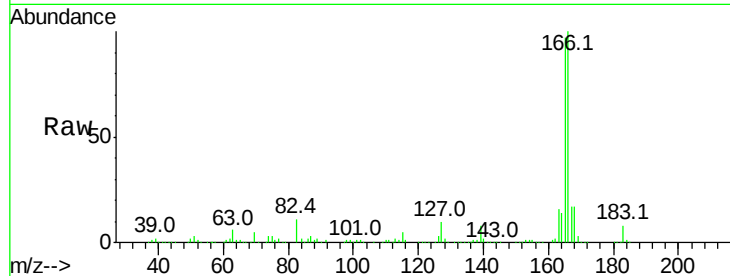




#57  
**Fluorene**  
 Concen: 14.336 ng  
 RT: 10.37 min Scan# 1409  
 Delta R.T. -0.01 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

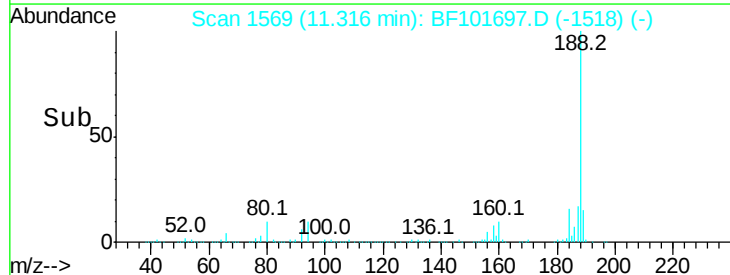
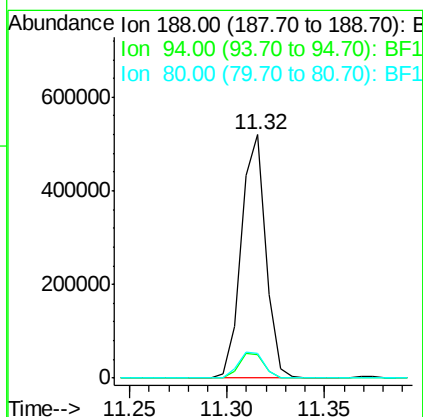
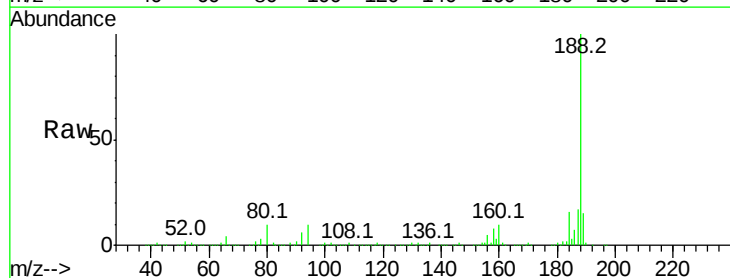
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

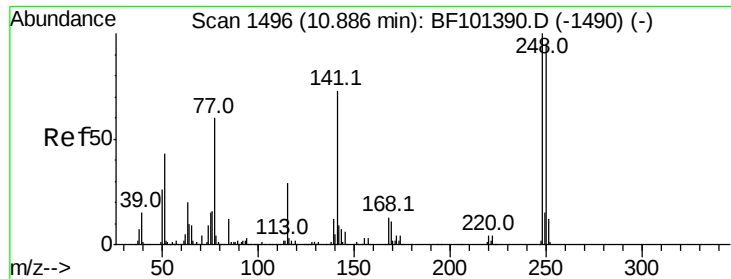
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.5  | 79.8  | 119.8 |
| 167     | 16.9  | 10.6  | 16.0# |



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1569  
 Delta R.T. 0.00 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 8.5   | 12.7  |
| 80      | 10.4  | 9.2   | 13.8  |

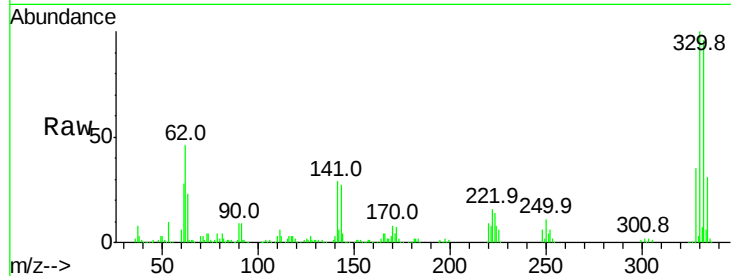




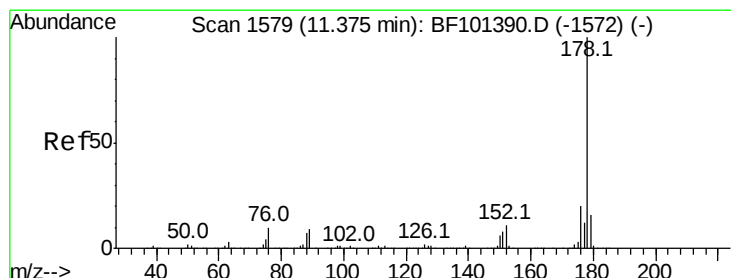
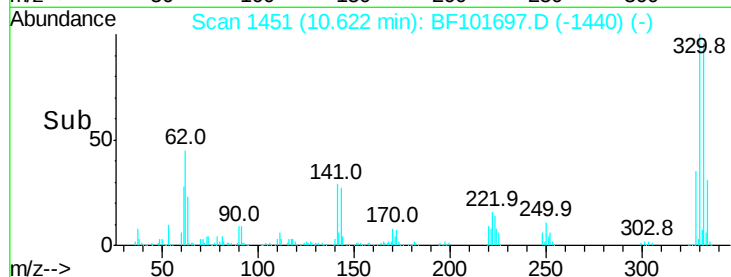
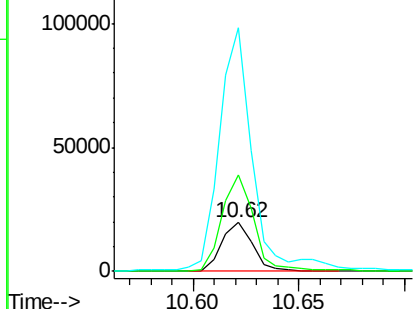
#66  
4-Bromophenyl-phenylether  
Concen: 3.980 ng  
RT: 10.62 min Scan# 1451  
Delta R.T. -0.24 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
WC-9974103-01

Tot Ion:248 Resp: 20171  
Ion Ratio Lower Upper  
248 100  
250 196.9 76.9 115.3#  
141 499.0 74.4 111.6#

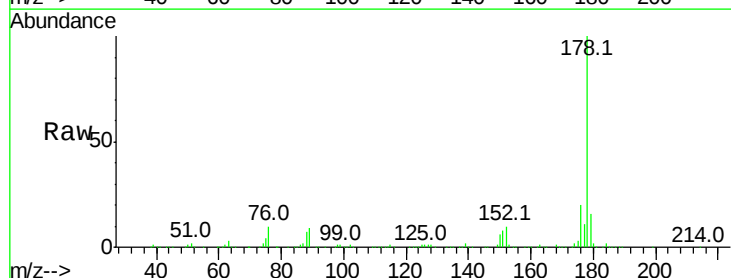


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

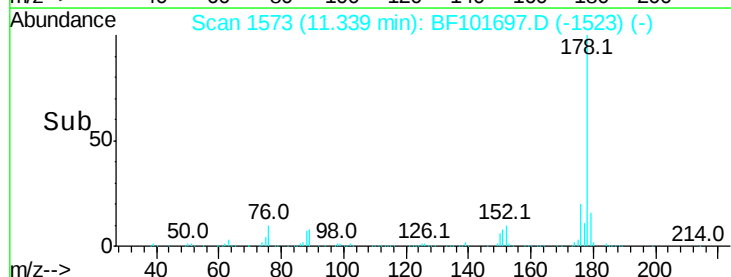
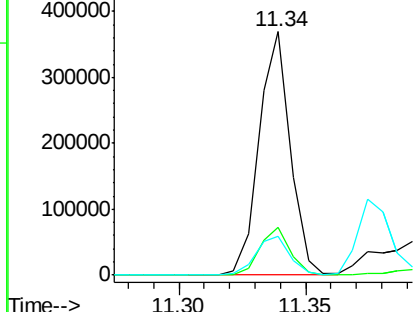


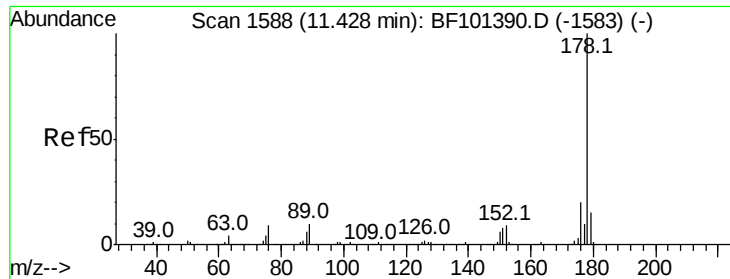
#70  
Phenanthrene  
Concen: 12.611 ng  
RT: 11.34 min Scan# 1573  
Delta R.T. -0.01 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Tgt Ion:178 Resp: 316368  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.8 23.8  
179 16.0 13.0 19.6



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

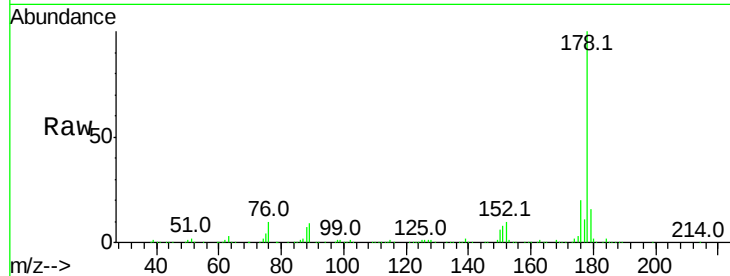




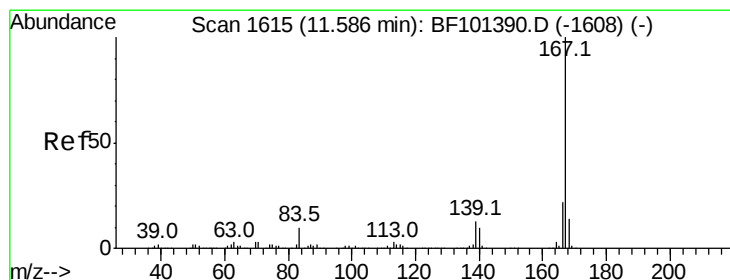
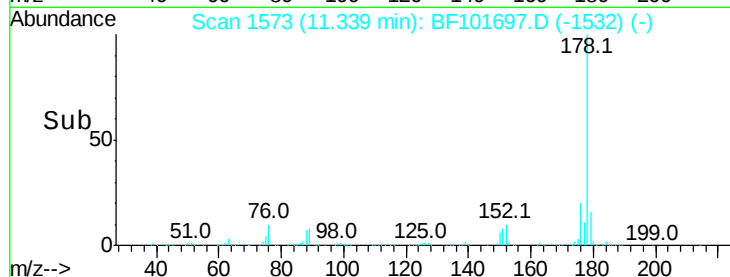
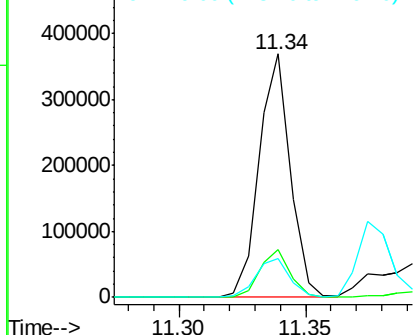
#71  
 Anthracene  
 Concen: 12.346 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. -0.06 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-9974103-01

Tot Ion:178 Resp: 316368  
 Ion Ratio Lower Upper  
 178 100  
 176 19.8 15.4 23.2  
 179 16.0 12.6 19.0

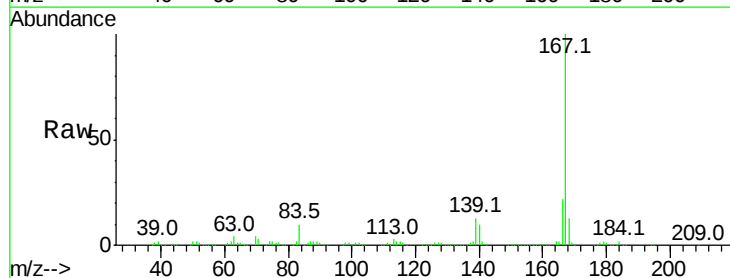


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

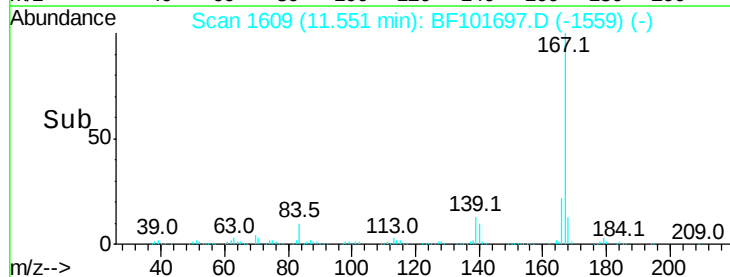
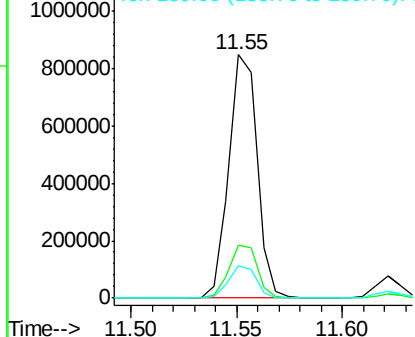


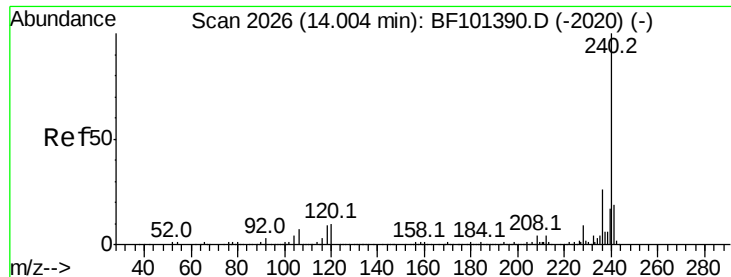
#72  
 Carbazole  
 Concen: 32.788 ng  
 RT: 11.55 min Scan# 1609  
 Delta R.T. -0.01 min  
 Lab File: BF101697.D  
 Acq: 23 Dec 2017 12:11

Tgt Ion:167 Resp: 786628  
 Ion Ratio Lower Upper  
 167 100  
 166 21.7 17.6 26.4  
 139 13.4 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

Instrument :

BNA\_F

ClientSampleId :

WC-9974103-01

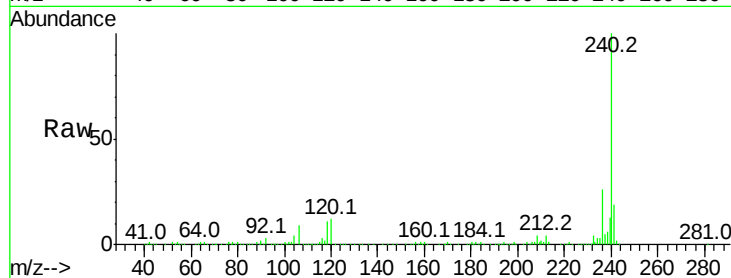
Tot Ion:240 Resp: 310775

Ion Ratio Lower Upper

240 100

120 12.2 9.5 14.3

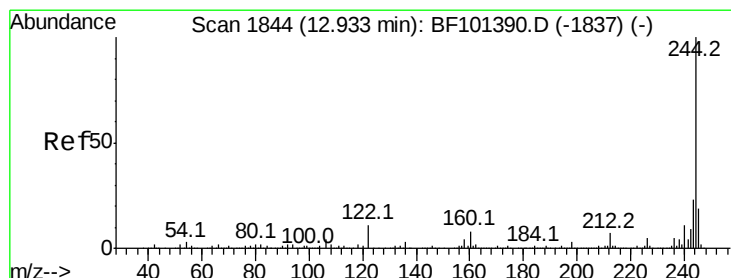
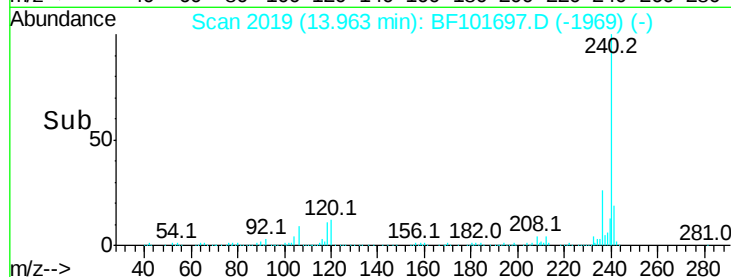
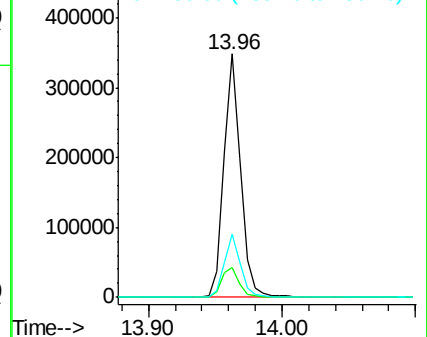
236 25.8 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 105.161 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.01 min

Lab File: BF101697.D

Acq: 23 Dec 2017 12:11

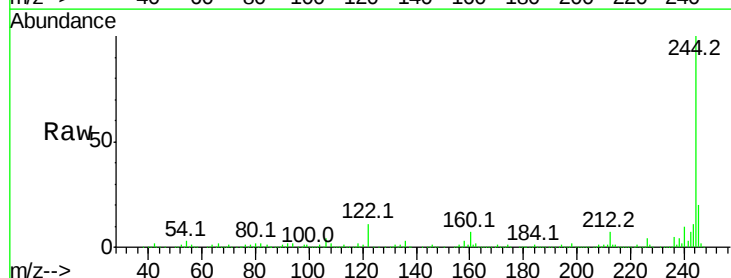
Tgt Ion:244 Resp: 1355638

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

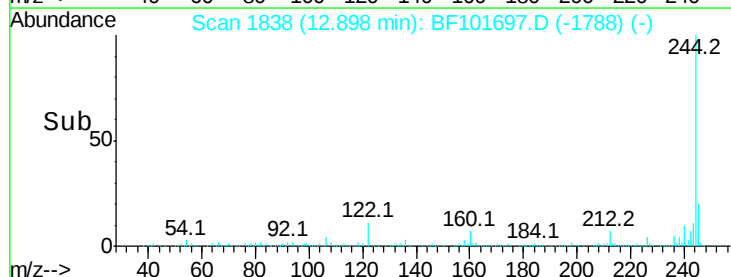
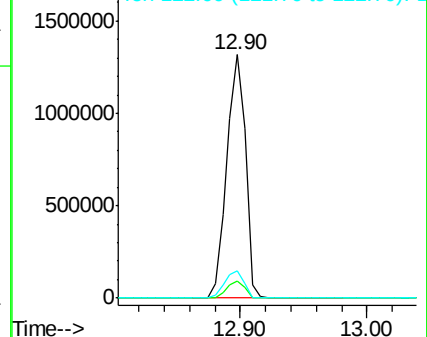
122 11.0 11.0 16.4

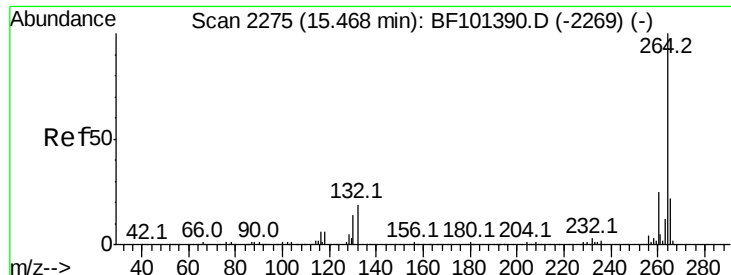


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

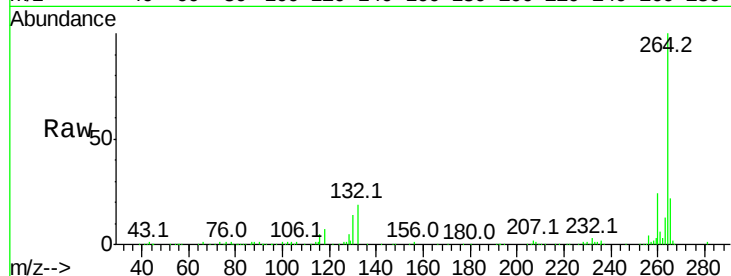




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2268  
Delta R.T. 0.00 min  
Lab File: BF101697.D  
Acq: 23 Dec 2017 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
WC-9974103-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

