

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100417\  
 Data File : BF099075.D  
 Acq On : 4 Oct 2017 19:06  
 Operator : SJ/JU  
 Sample : I5526-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 05 01:09:38 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 135025   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 8.13  | 136  | 47184    | 20.00 | ng    | -0.08    |
| 38) Acenaphthene-d10      | 9.91  | 164  | 237993   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.40 | 188  | 298117   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 14.03 | 240  | 233922   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 15.50 | 264  | 225681   | 20.00 | ng    | -0.07    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.50  | 112 | 393597  | 46.40  | ng | -0.04 |
| 7) Phenol-d6                | 6.52  | 99  | 356636  | 34.08  | ng | -0.03 |
| 23) Nitrobenzene-d5         | 7.44  | 82  | 631706  | 858.58 | ng | -0.05 |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330 | 198071  | 101.71 | ng | -0.05 |
| 44) 2-Fluorobiphenyl        | 9.23  | 172 | 1096775 | 76.93  | ng | -0.05 |
| 78) Terphenyl-d14           | 12.98 | 244 | 680848  | 66.19  | ng | -0.05 |

|                                |       |     |          |         |    |        |
|--------------------------------|-------|-----|----------|---------|----|--------|
| Target Compounds               |       |     |          |         |    | Qvalue |
| 2) 1,4-Dioxane                 | 2.65  | 88  | 36712    | 9.06    | ng | 98     |
| 3) Pyridine                    | 3.43  | 79  | 172080   | 15.70   | ng | 97     |
| 6) Aniline                     | 6.54  | 93  | 482846   | 34.19   | ng | 96     |
| 10) Phenol                     | 6.53  | 94  | 307676   | 26.29   | ng | # 70   |
| 11) bis(2-Chloroethyl)ether    | 6.54  | 93  | 482846   | 53.08   | ng | # 25   |
| 15) Benzyl Alcohol             | 6.99  | 79  | 21354    | 2.78    | ng | # 58   |
| 17) 2-Methylphenol             | 7.12  | 107 | 408286   | 51.95   | ng | 97     |
| 18) Hexachloroethane           | 7.40  | 117 | 49853    | 13.55   | ng | # 1    |
| 20) 3+4-Methylphenols          | 7.29  | 107 | 1307645  | 131.52  | ng | 93     |
| 22) Acetophenone               | 7.30  | 105 | 222516   | 194.65  | ng | # 79   |
| 24) Nitrobenzene               | 7.43  | 77  | 30332    | 36.34   | ng | # 15   |
| 25) Isophorone                 | 7.44  | 82  | 631706   | 415.27  | ng | # 64   |
| 27) 2,4-Dimethylphenol         | 7.84  | 122 | 2053170  | 2708.84 | ng | 96     |
| 28) bis(2-Chloroethoxy)methane | 7.84  | 93  | 95458    | 100.70  | ng | # 1    |
| 31) Naphthalene                | 8.19  | 128 | 13172943 | 5944.32 | ng | 97     |
| 32) Benzoic acid               | 7.84  | 122 | 2053170  | 3297.73 | ng | # 14   |
| 33) 4-Chloroaniline            | 8.20  | 127 | 1924331  | 2079.41 | ng | # 34   |
| 35) Caprolactam                | 8.53  | 113 | 1794     | 8.59    | ng | # 1    |
| 36) 4-Chloro-3-methylphenol    | 8.66  | 107 | 16981    | 23.22   | ng | # 28   |
| 37) 2-Methylnaphthalene        | 8.87  | 142 | 1233564  | 856.27  | ng | 99     |
| 45) 1,1'-Biphenyl              | 9.33  | 154 | 764044   | 37.35   | ng | 99     |
| 47) 2-Nitroaniline             | 9.45  | 65  | 13652    | 2.90    | ng | # 45   |
| 48) Acenaphthylene             | 9.77  | 152 | 130053   | 5.53    | ng | # 84   |
| 49) Dimethylphthalate          | 9.63  | 163 | 89961    | 5.01    | ng | 97     |
| 51) Acenaphthene               | 9.95  | 154 | 1128122  | 75.75   | ng | 100    |
| 53) 2,4-Dinitrophenol          | 9.96  | 184 | 315      | 5.97    | ng | # 1    |
| 54) Dibenzofuran               | 10.12 | 168 | 1425579  | 71.90   | ng | 99     |
| 55) 4-Nitrophenol              | 10.05 | 139 | 29492    | 7.65    | ng | # 44   |
| 57) Fluorene                   | 10.46 | 166 | 925932   | 58.10   | ng | 98     |
| 62) Azobenzene                 | 10.59 | 77  | 67067    | 4.16    | ng | # 40   |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248 | 13133    | 4.50    | ng | # 1    |
| 70) Phenanthrene               | 11.43 | 178 | 1295563  | 81.19   | ng | 99     |
| 71) Anthracene                 | 11.47 | 178 | 209480   | 12.83   | ng | 99     |
| 72) Carbazole                  | 11.64 | 167 | 894662   | 55.95   | ng | 99     |

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Acq On : 4 Oct 2017 19:06  
Operator : SJ/JU  
Sample : I5526-03  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

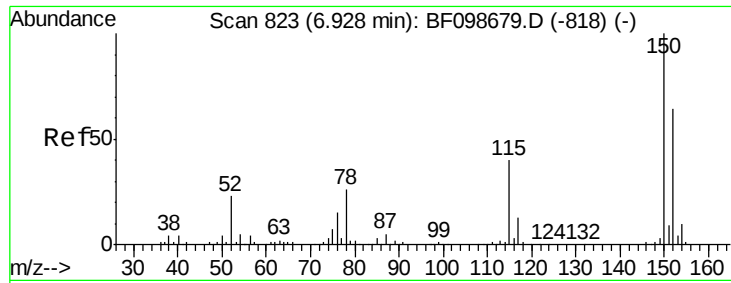
Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Oct 05 01:09:38 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 23 13:50:58 2017  
Response via : Initial Calibration

| Internal Standards | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|-------|------|----------|------|-------|----------|
| 74) Fluoranthene   | 12.63 | 202  | 128377   | 7.94 | nq    | 98       |
| 77) Pyrene         | 12.85 | 202  | 83359    | 4.67 | nq    | 98       |

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

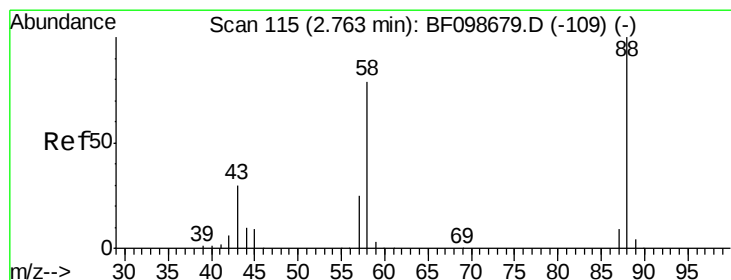
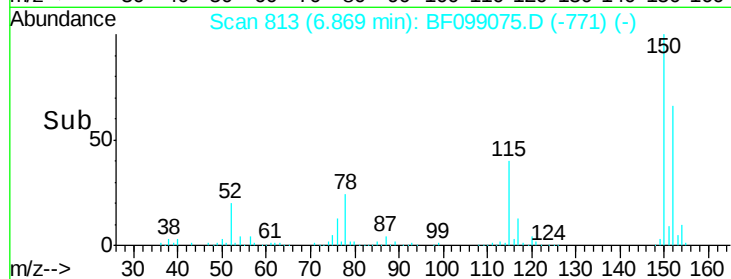
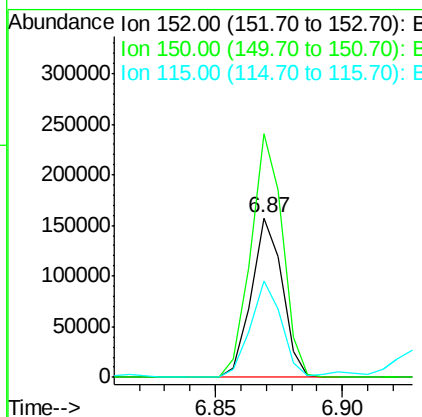
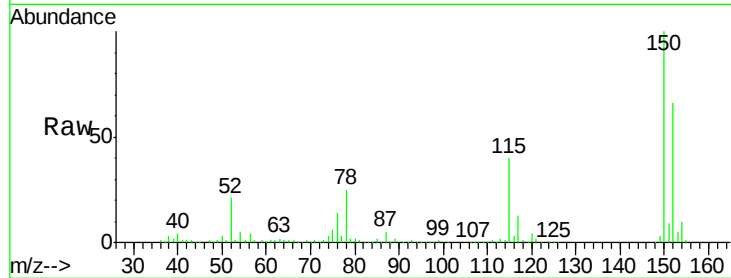




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.87 min Scan# 813  
 Delta R.T. -0.05 min  
 Lab File: BF099075.D  
 Acq: 4 Oct 2017 19:06

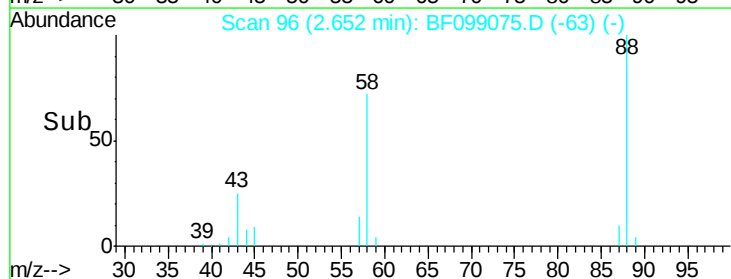
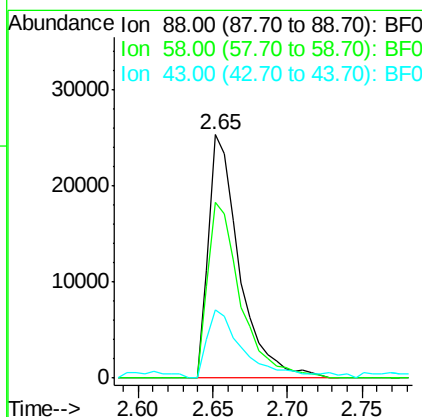
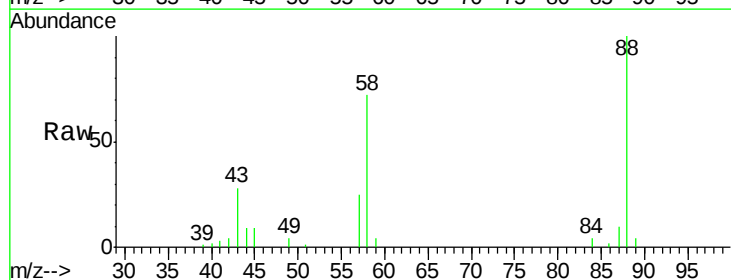
Instrument :  
 BNA\_F  
 ClientSampleId :

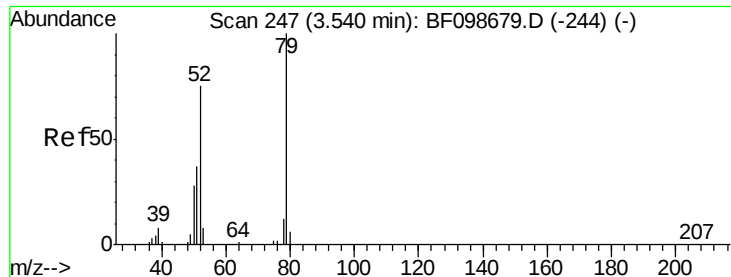
Tot Ion:152 Resp: 135025  
 Ion Ratio Lower Upper  
 152 100  
 150 152.4 124.6 186.8  
 115 60.3 50.1 75.1



#2  
 1,4-Dioxane  
 Concen: 9.06 ng  
 RT: 2.65 min Scan# 96  
 Delta R.T. -0.11 min  
 Lab File: BF099075.D  
 Acq: 4 Oct 2017 19:06

Tgt Ion: 88 Resp: 36712  
 Ion Ratio Lower Upper  
 88 100  
 58 76.2 62.6 93.8  
 43 31.8 24.6 37.0





#3

Pvridine

Concen: 15.70 ng

RT: 3.43 min Scan# 229

Delta R.T. -0.09 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

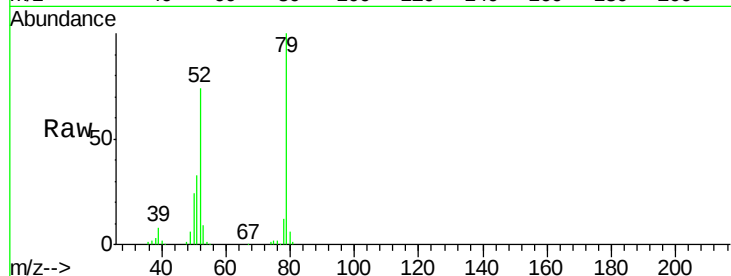
Tot Ion: 79 Resp: 172080

Ion Ratio Lower Upper

79 100

52 73.5 59.8 89.6

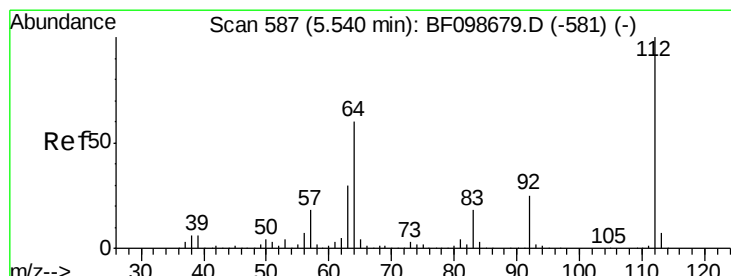
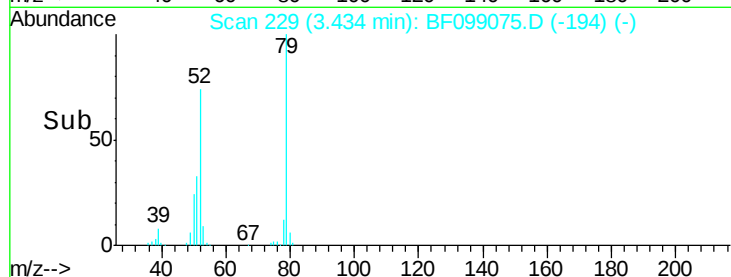
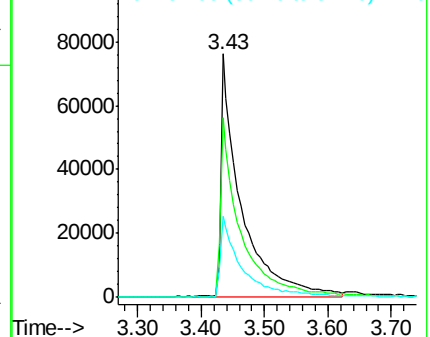
51 33.4 29.8 44.8



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#5

2-Fluorophenol

Concen: 46.40 ng

RT: 5.50 min Scan# 581

Delta R.T. -0.04 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

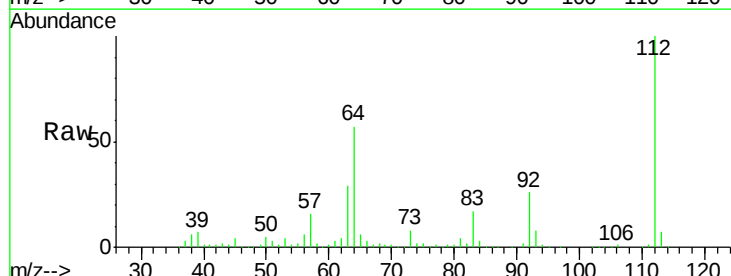
Tgt Ion: 112 Resp: 393597

Ion Ratio Lower Upper

112 100

64 57.2 47.9 71.9

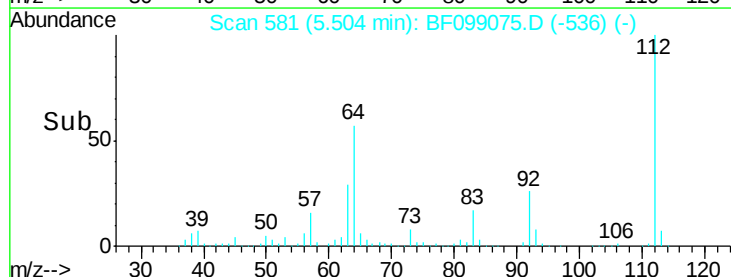
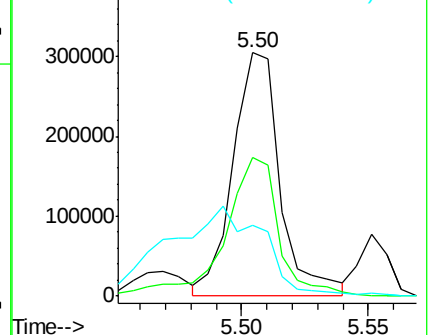
63 29.0 23.7 35.5

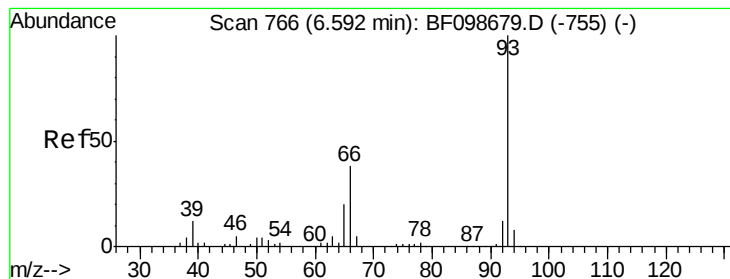


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#6

Aniline

Concen: 34.19 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

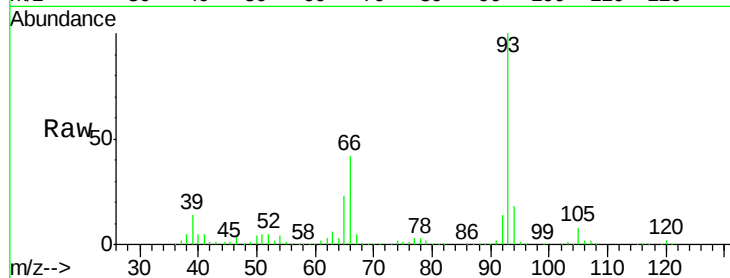
Tot Ion: 93 Resp: 482846

Ion Ratio Lower Upper

93 100

66 42.0 32.2 48.2

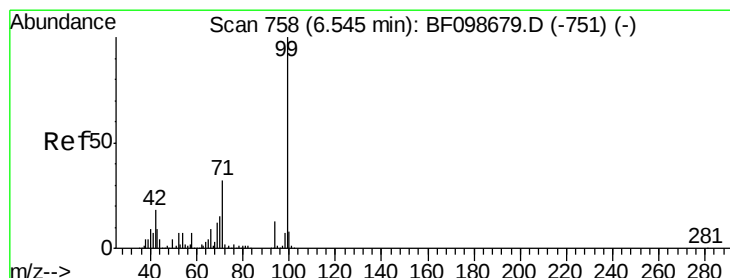
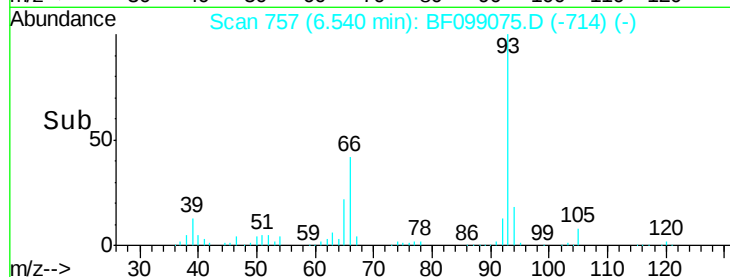
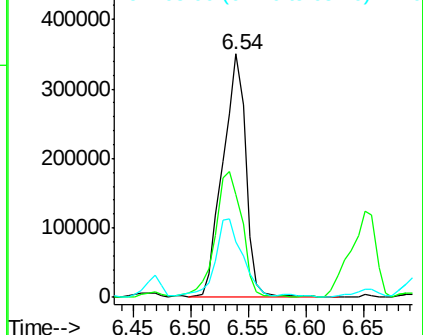
65 22.7 16.4 24.6



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 34.08 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.03 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

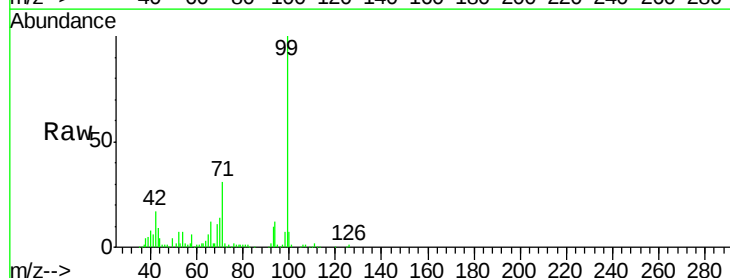
Tgt Ion: 99 Resp: 356636

Ion Ratio Lower Upper

99 100

42 16.7 14.5 21.7

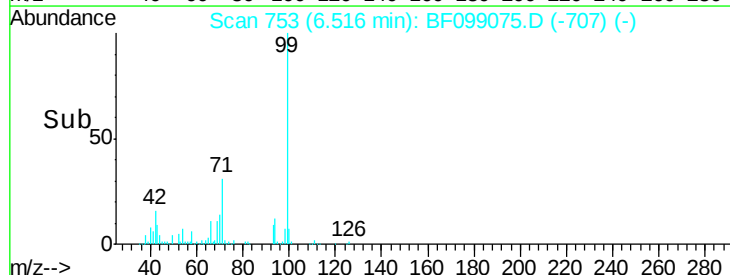
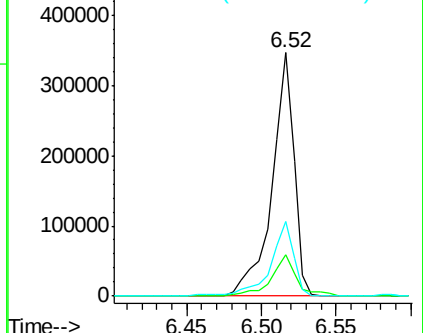
71 30.9 25.4 38.0

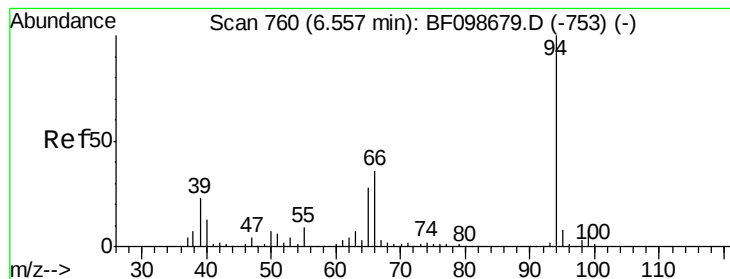


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#10

Phenol

Concen: 26.29 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.03 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

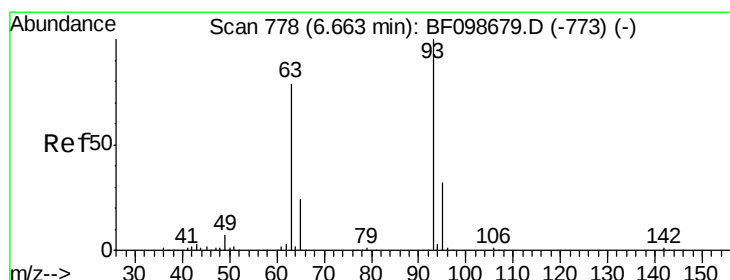
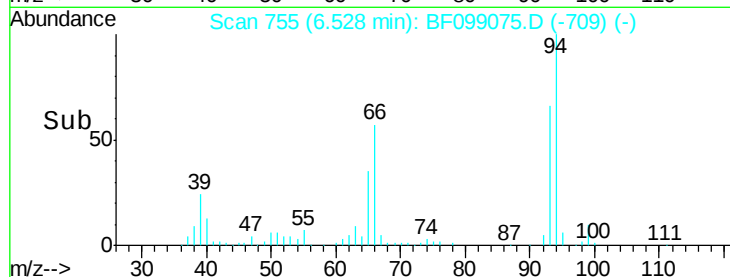
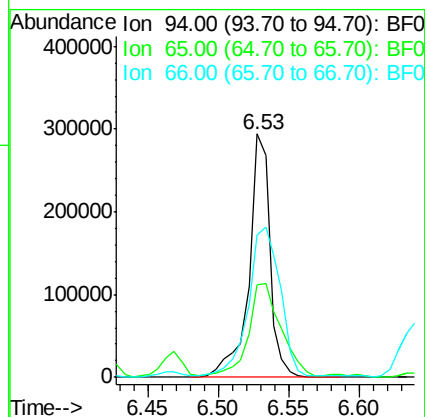
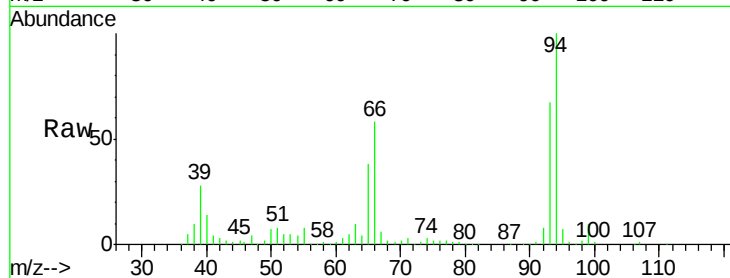
Tot Ion: 94 Resp: 307676

Ion Ratio Lower Upper

94 100

65 37.9 7.9 47.9

66 58.4 16.2 56.2#



#11

bis(2-Chloroethyl)ether

Concen: 53.08 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.12 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

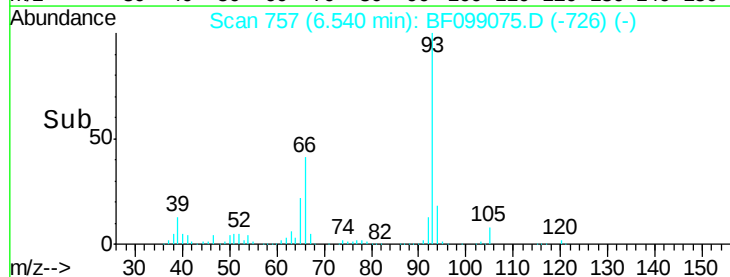
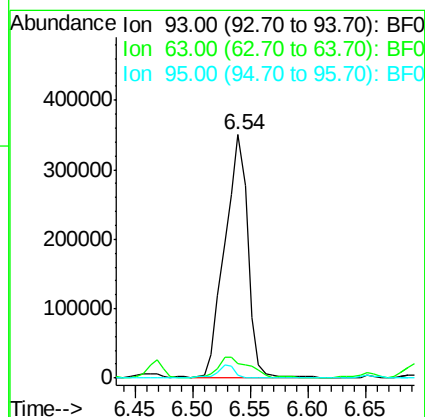
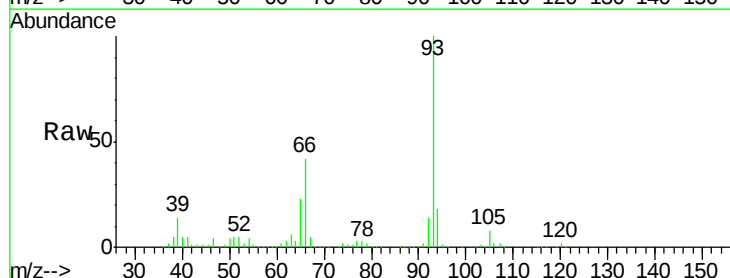
Tgt Ion: 93 Resp: 482846

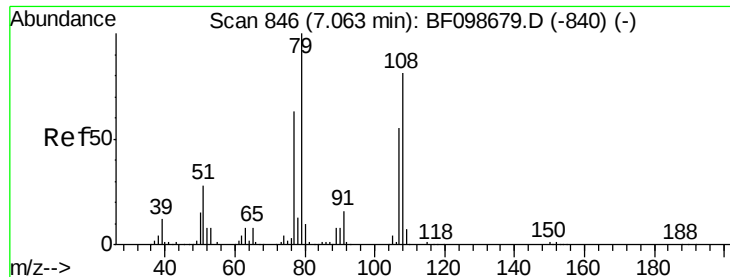
Ion Ratio Lower Upper

93 100

63 6.0 58.6 98.6#

95 1.1 11.8 51.8#





#15

Benzyl Alcohol

Concen: 2.78 ng

RT: 6.99 min Scan# 833

Delta R.T. -0.08 min

Lab File: BF099075.D

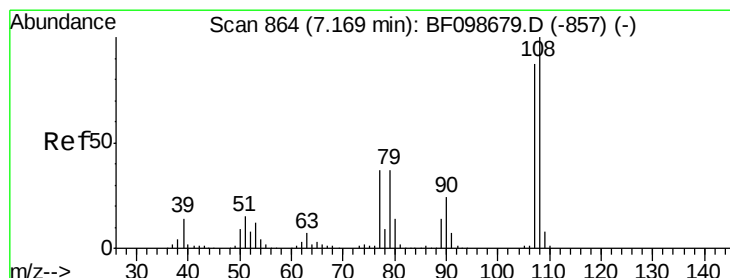
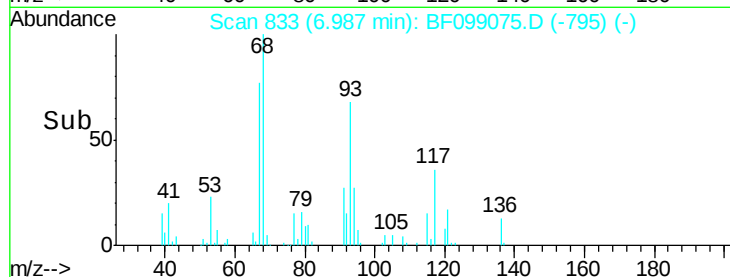
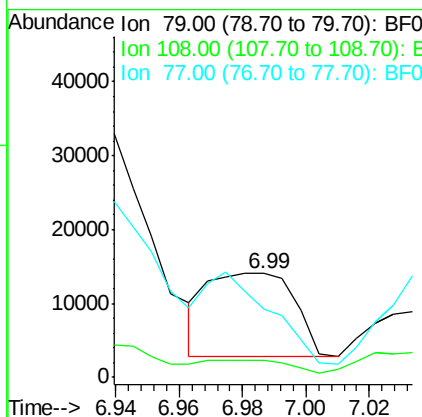
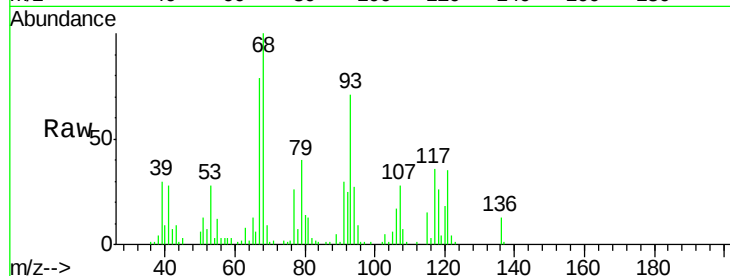
Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 79    | Resp: | 21354 |
| Ion      | Ratio | Lower | Upper |
| 79       | 100   |       |       |
| 108      | 16.4  | 65.1  | 97.7# |
| 77       | 65.4  | 50.6  | 75.8  |



#17

2-Methylphenol

Concen: 51.95 ng

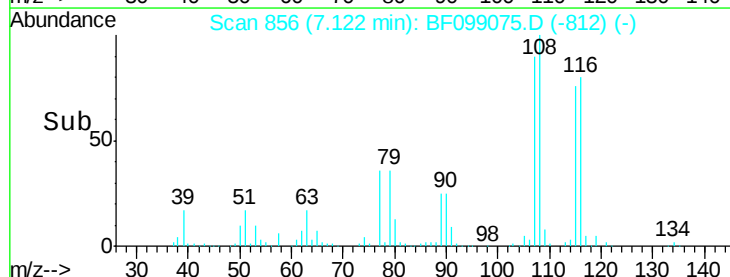
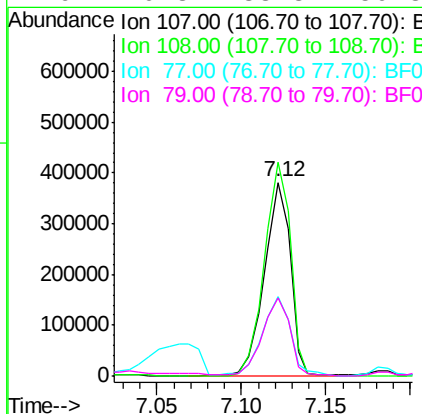
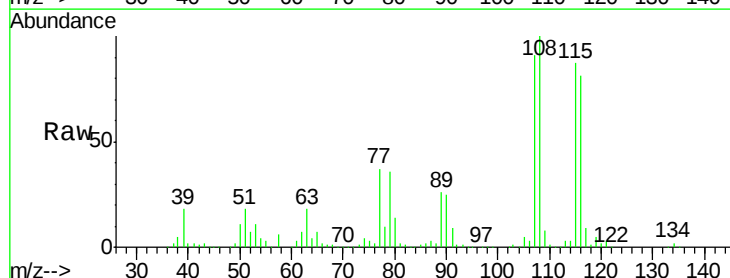
RT: 7.12 min Scan# 856

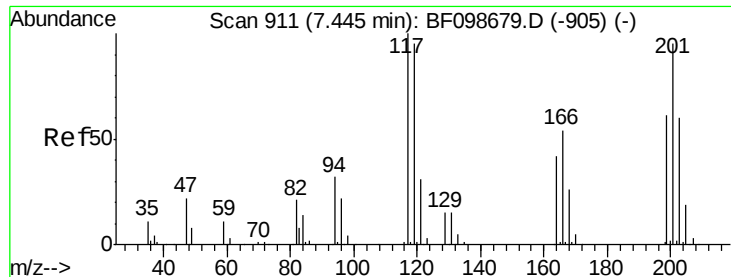
Delta R.T. -0.04 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 408286 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 110.4 | 91.7  | 137.5  |
| 77       | 41.2  | 33.8  | 50.8   |
| 79       | 40.3  | 33.8  | 50.8   |

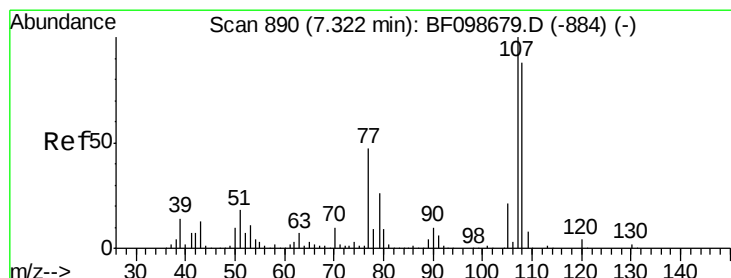
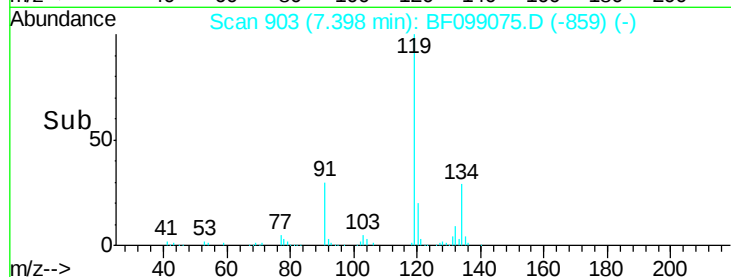
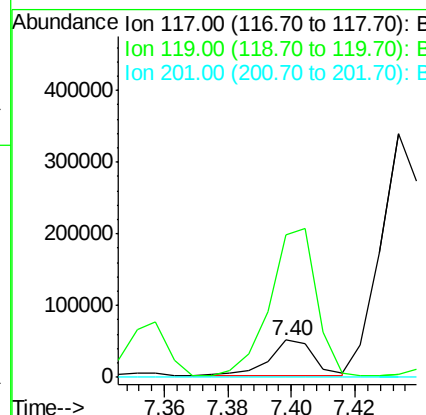
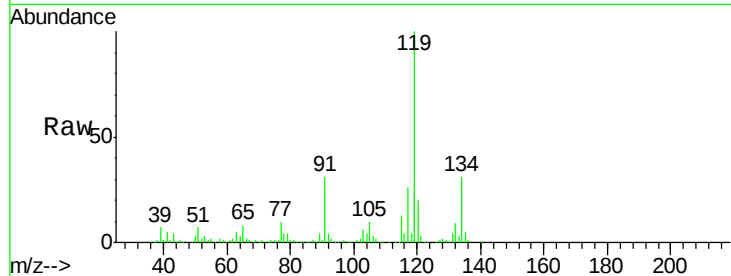




#18  
Hexachloroethane  
Concen: 13.55 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.04 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

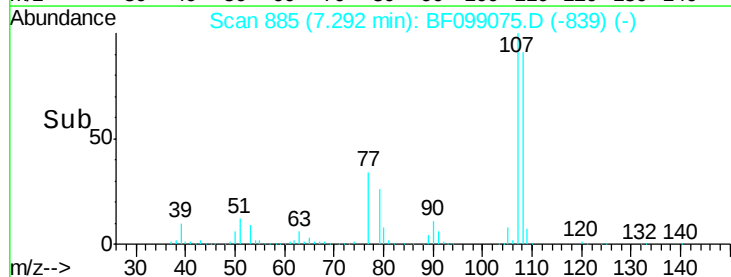
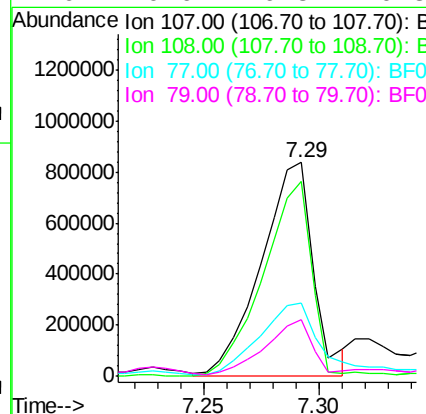
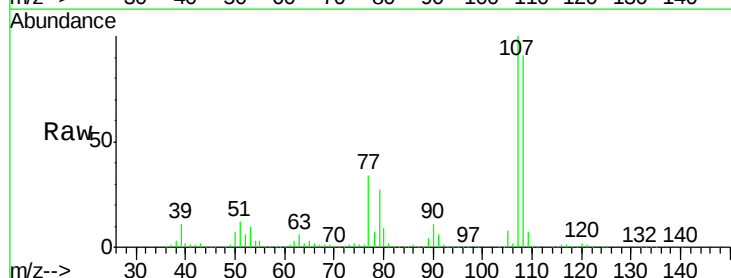
Instrument :  
BNA\_F  
ClientSampleId :

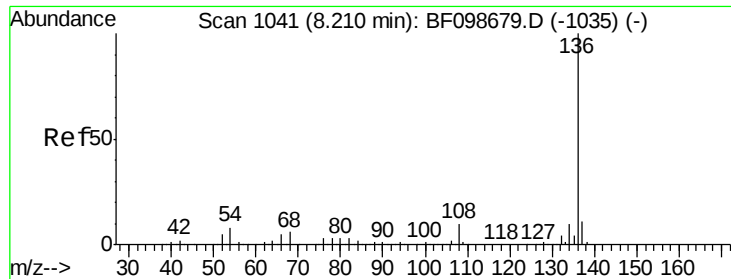
Tot Ion:117 Resp: 49853  
Ion Ratio Lower Upper  
117 100  
119 379.9 75.8 113.8#  
201 0.0 75.7 113.5#



#20  
3+4-Methylphenols  
Concen: 131.52 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.03 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Tgt Ion:107 Resp: 1307645  
Ion Ratio Lower Upper  
107 100  
108 90.8 68.2 108.2  
77 34.4 26.7 66.7  
79 26.6 6.3 46.3





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.08 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 47184

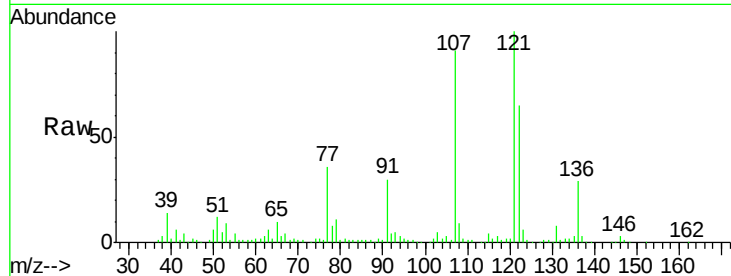
Ion Ratio Lower Upper

136 100

137 9.9 8.9 13.3

54 3.7 6.6 9.8#

68 3.1 5.0 7.4#

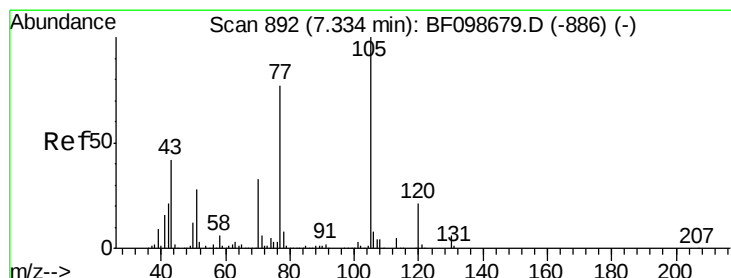
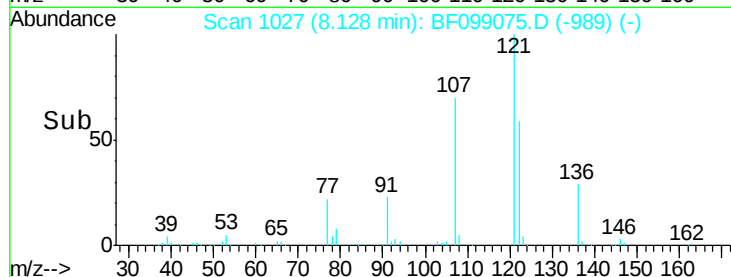
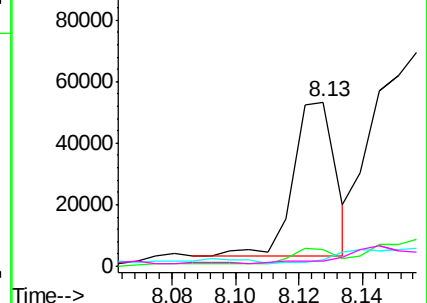


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 194.65 ng

RT: 7.30 min Scan# 887

Delta R.T. -0.03 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Tgt Ion:105 Resp: 222516

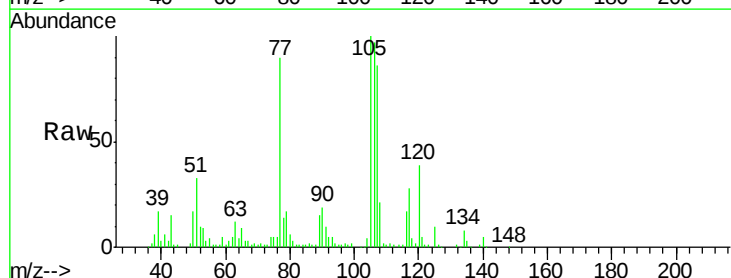
Ion Ratio Lower Upper

105 100

71 2.4 4.4 6.6#

51 33.2 22.3 33.5

120 38.7 16.9 25.3#

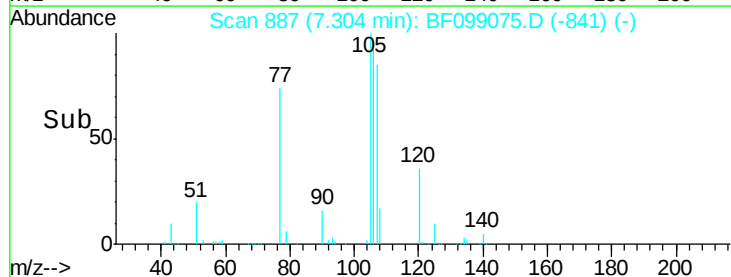
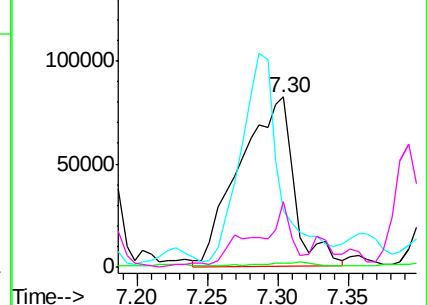


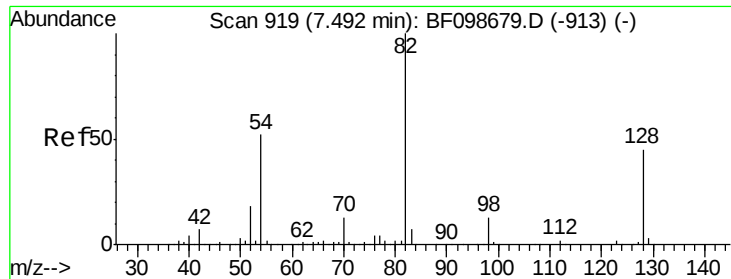
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

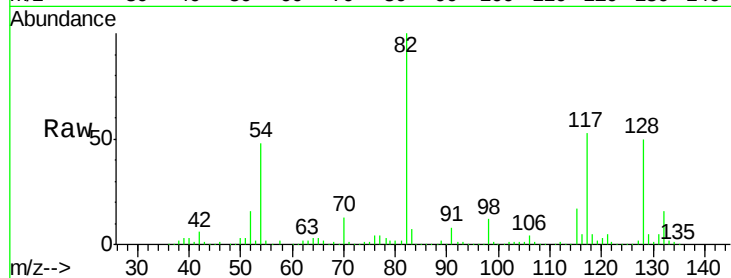




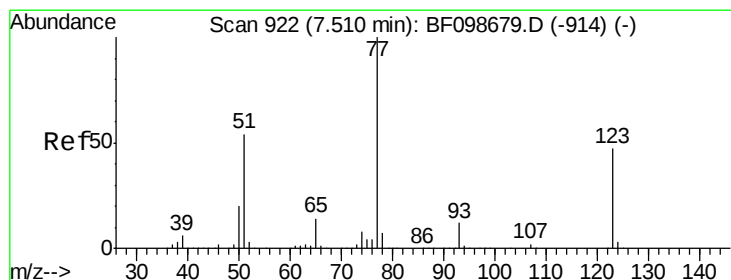
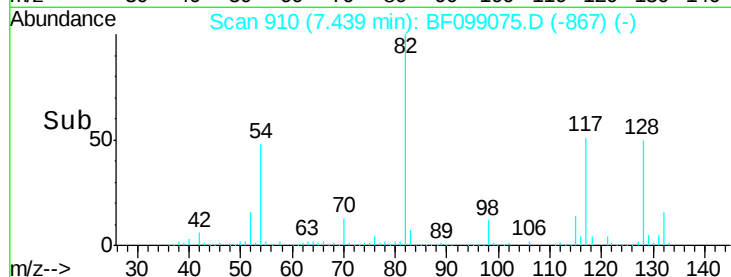
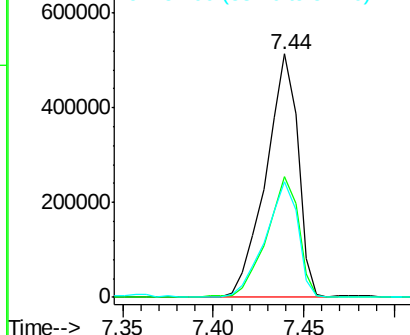
#23  
Nitrobenzene-d5  
Concen: 858.58 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.05 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 631706  
Ion Ratio Lower Upper  
82 100  
128 49.7 36.1 54.1  
54 47.6 41.4 62.2

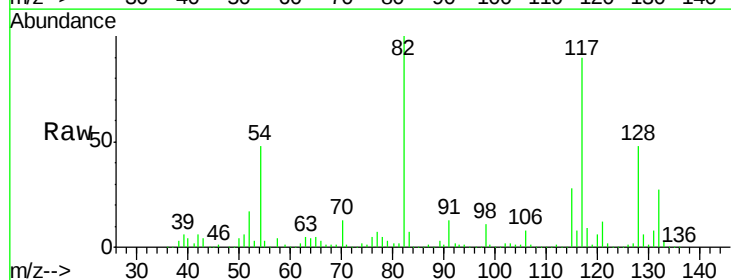


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0

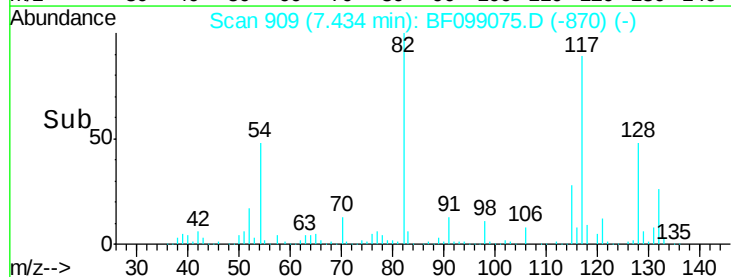
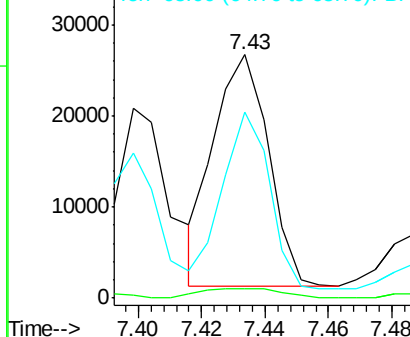


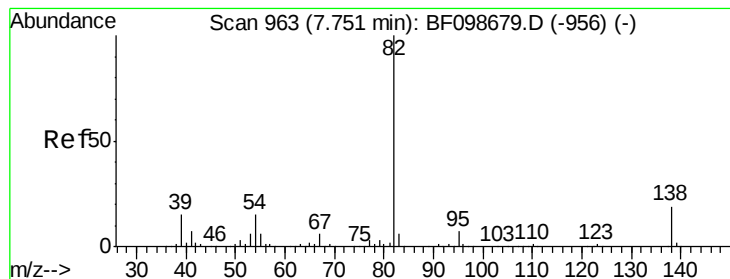
#24  
Nitrobenzene  
Concen: 36.34 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.07 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Tgt Ion: 77 Resp: 30332  
Ion Ratio Lower Upper  
77 100  
123 3.8 37.9 56.9#  
65 76.6 11.0 16.4#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 123.00 (122.70 to 123.70): B  
Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 415.27 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.31 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

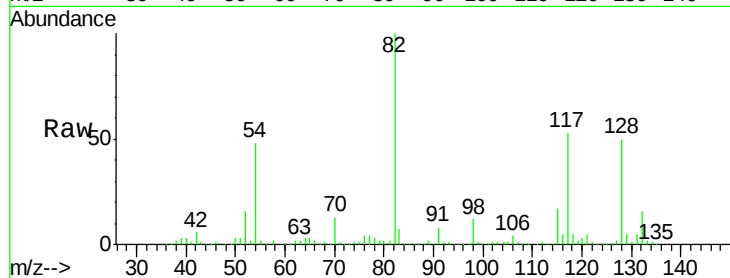
Tot Ion: 82 Resp: 631706

Ion Ratio Lower Upper

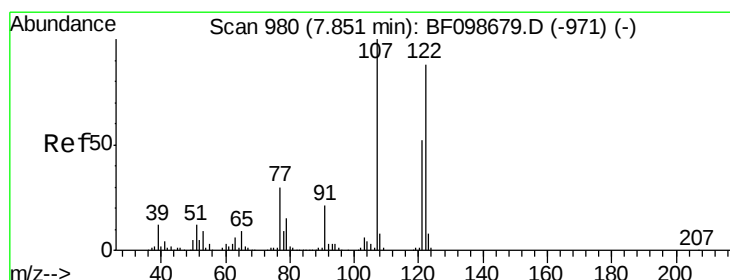
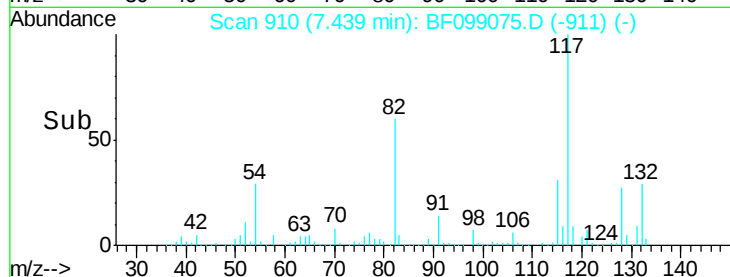
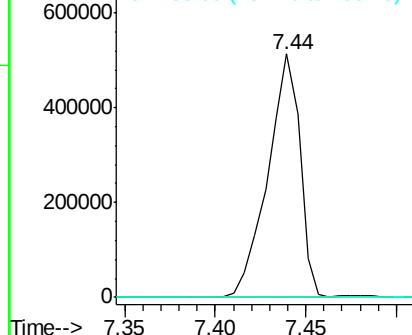
82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#27

2,4-Dimethylphenol

Concen: 2708.84 ng

RT: 7.84 min Scan# 978

Delta R.T. -0.01 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

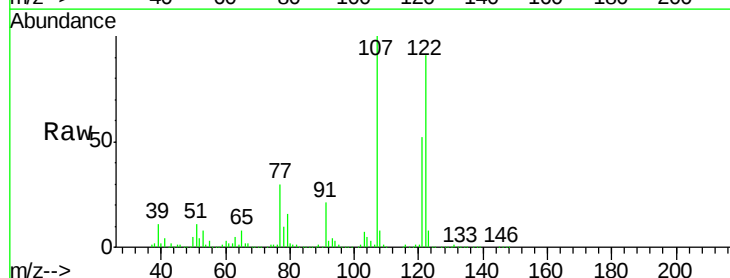
Tgt Ion:122 Resp: 2053170

Ion Ratio Lower Upper

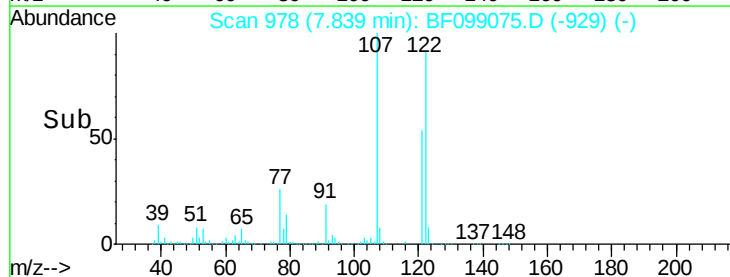
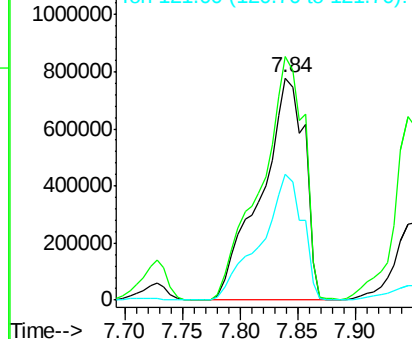
122 100

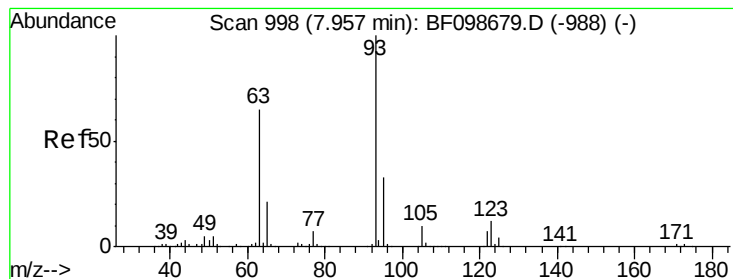
107 109.4 91.2 136.8

121 56.8 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: 100.70 ng

RT: 7.84 min Scan# 978

Delta R.T. -0.11 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

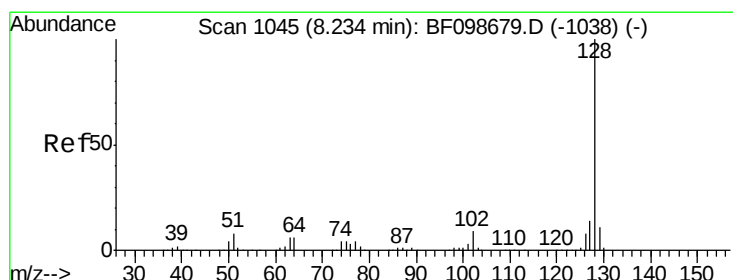
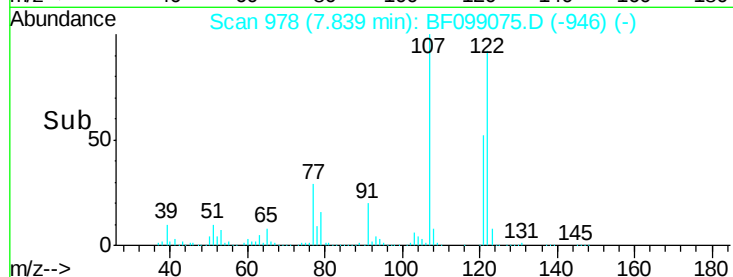
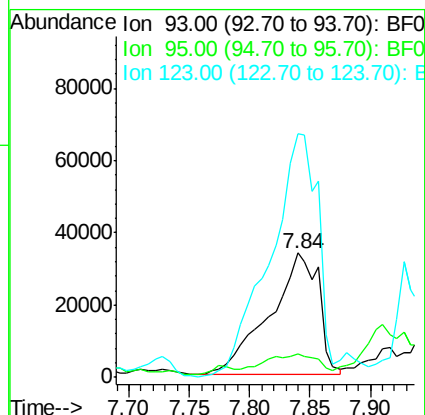
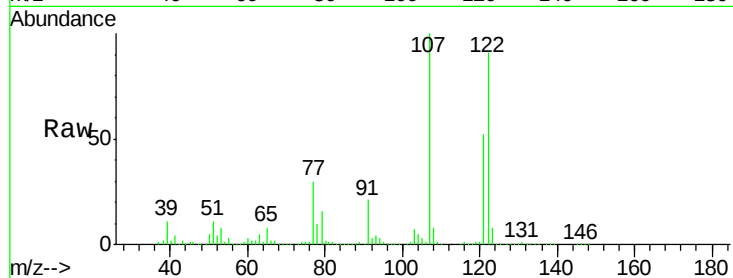
Tot Ion: 93 Resp: 95458

Ion Ratio Lower Upper

93 100

95 19.2 26.3 39.5#

123 195.7 9.8 14.6#



#31

Naphthalene

Concen: 5944.32 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.04 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

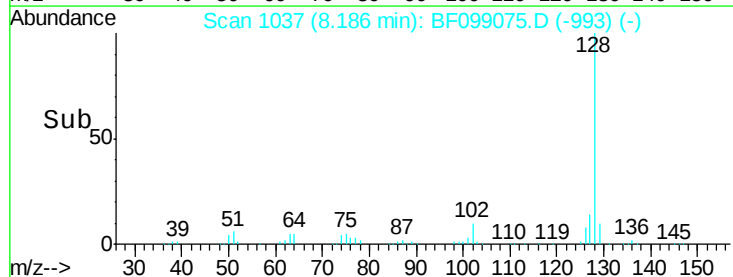
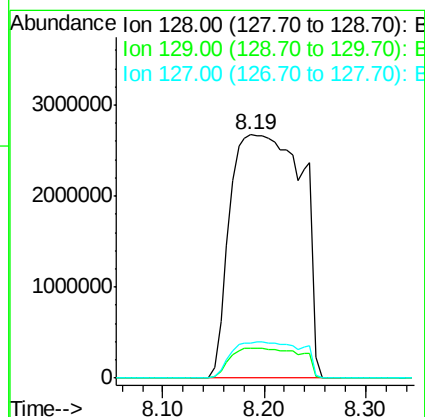
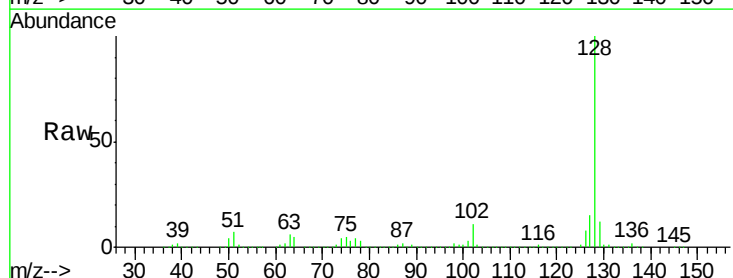
Tgt Ion:128 Resp:13172943

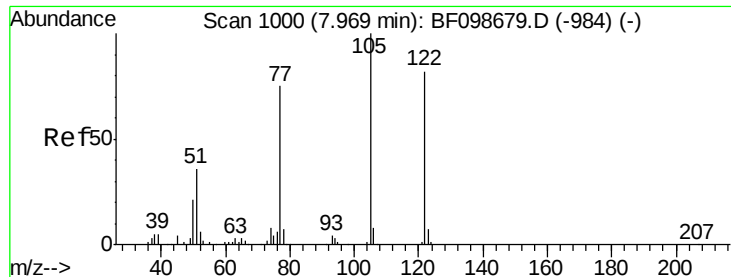
Ion Ratio Lower Upper

128 100

129 12.1 8.8 13.2

127 14.5 10.9 16.3

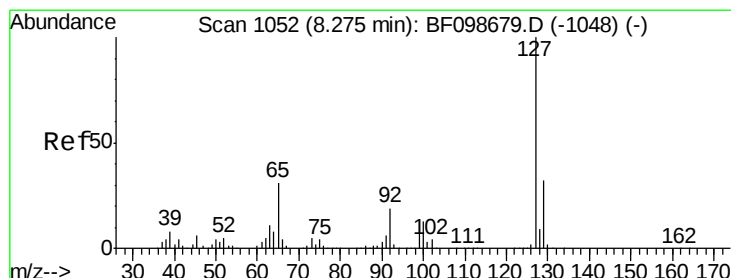
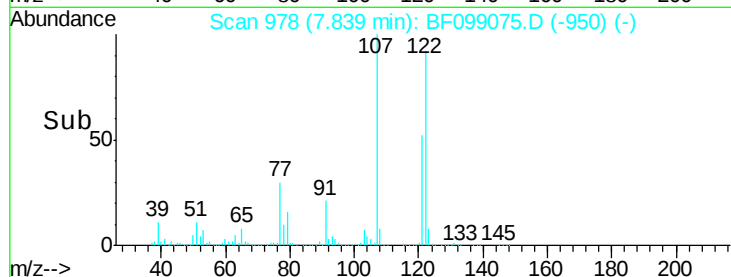
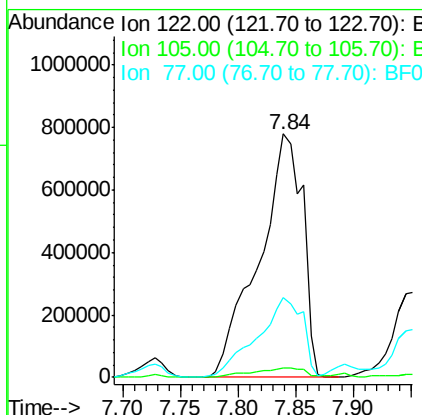
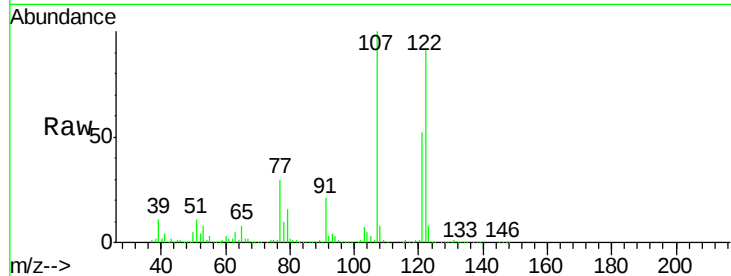




#32  
Benzoic acid  
Concen: 3297.73 ng  
RT: 7.84 min Scan# 978  
Delta R.T. -0.14 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

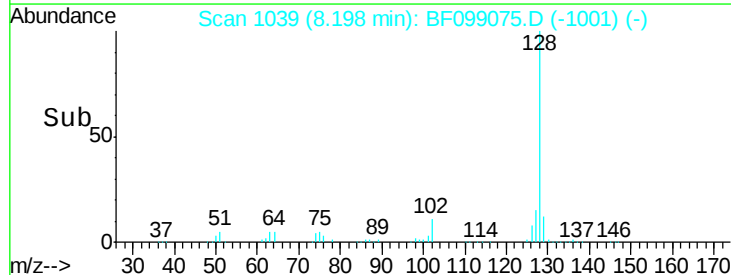
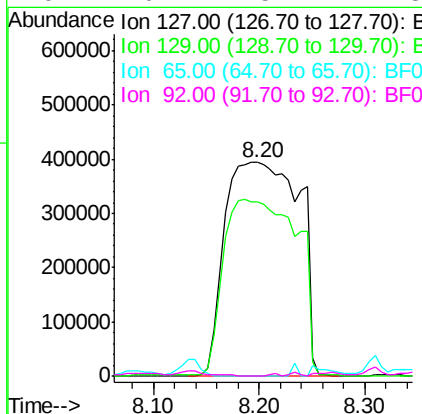
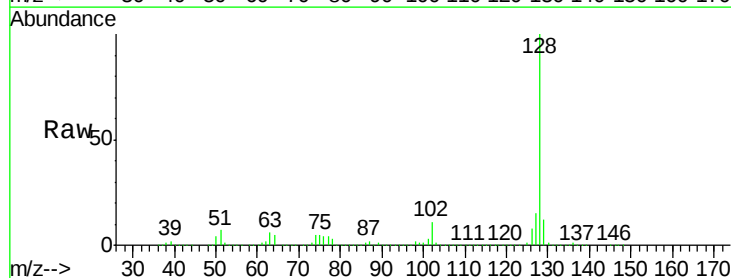
Instrument :  
BNA\_F  
ClientSampleId :

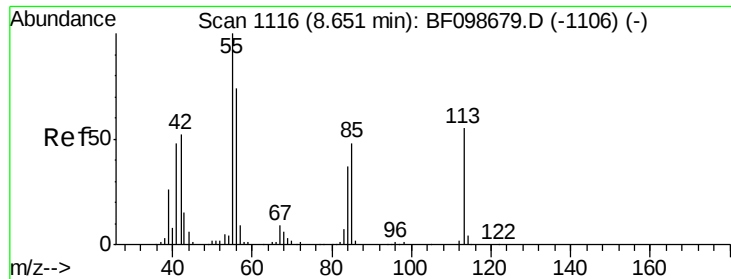
Tot Ion:122 Resp: 2053170  
Ion Ratio Lower Upper  
122 100  
105 3.7 101.1 141.1#  
77 32.5 70.7 110.7#



#33  
4-Chloroaniline  
Concen: 2079.41 ng  
RT: 8.20 min Scan# 1039  
Delta R.T. -0.08 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Tgt Ion:127 Resp: 1924331  
Ion Ratio Lower Upper  
127 100  
129 81.8 25.9 38.9#  
65 0.0 25.0 37.4#  
92 0.2 15.2 22.8#

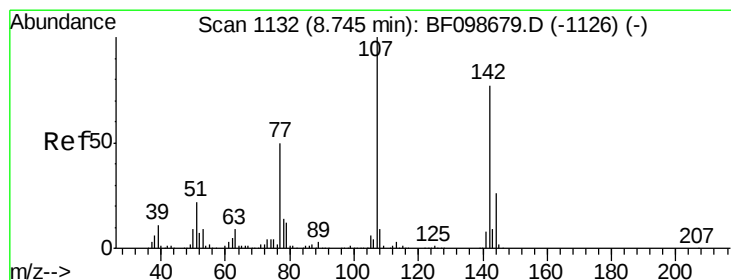
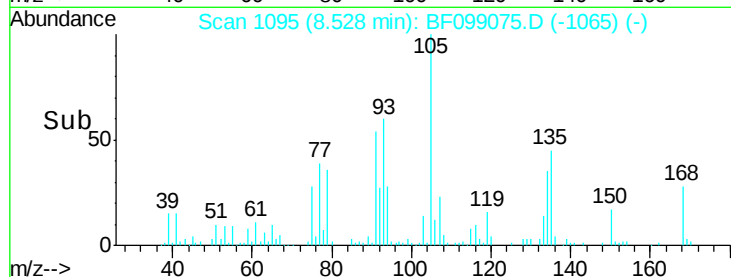
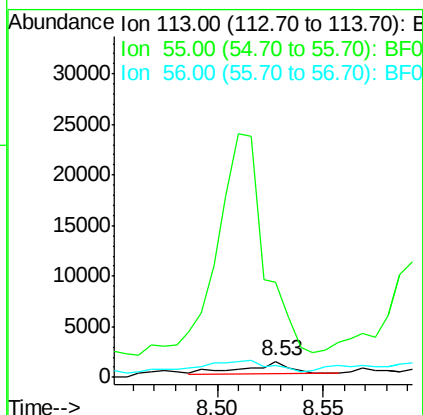
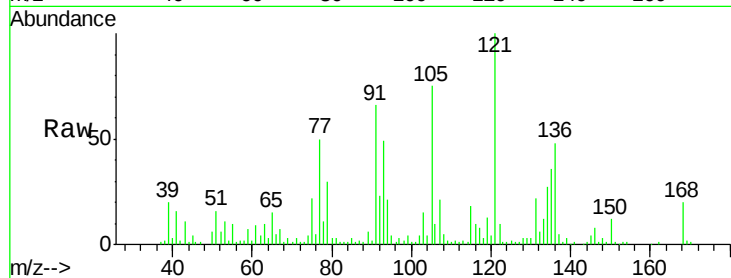




#35  
 Caprolactam  
 Concen: 8.59 ng  
 RT: 8.53 min Scan# 1095  
 Delta R.T. -0.12 min  
 Lab File: BF099075.D  
 Acq: 4 Oct 2017 19:06

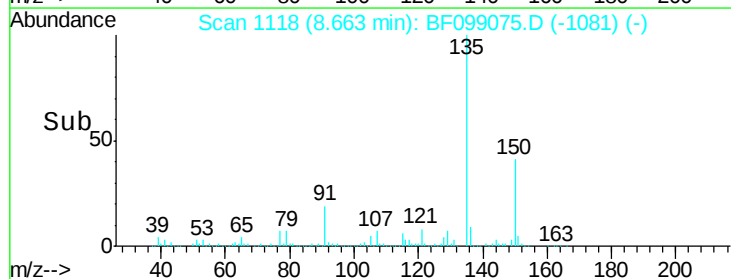
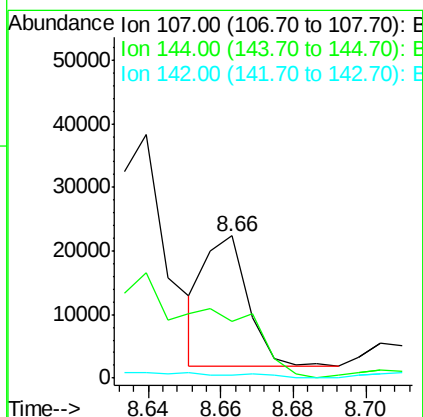
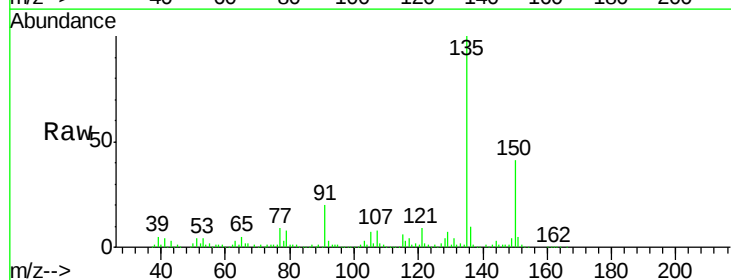
Instrument :  
 BNA\_F  
 ClientSampleId :

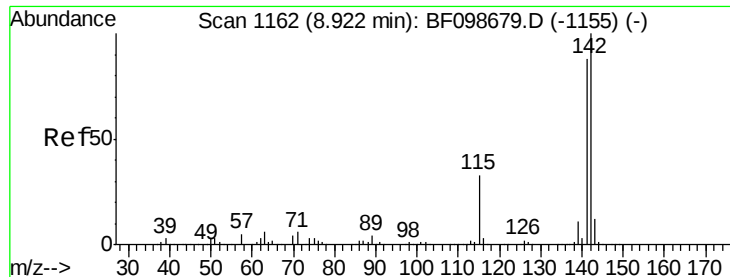
Tot Ion:113 Resp: 1794  
 Ion Ratio Lower Upper  
 113 100  
 55 586.8 163.3 203.3#  
 56 71.4 115.7 155.7#



#36  
 4-Chloro-3-methylphenol  
 Concen: 23.22 ng  
 RT: 8.66 min Scan# 1118  
 Delta R.T. -0.08 min  
 Lab File: BF099075.D  
 Acq: 4 Oct 2017 19:06

Tgt Ion:107 Resp: 16981  
 Ion Ratio Lower Upper  
 107 100  
 144 39.7 20.5 30.7#  
 142 2.0 62.0 93.0#

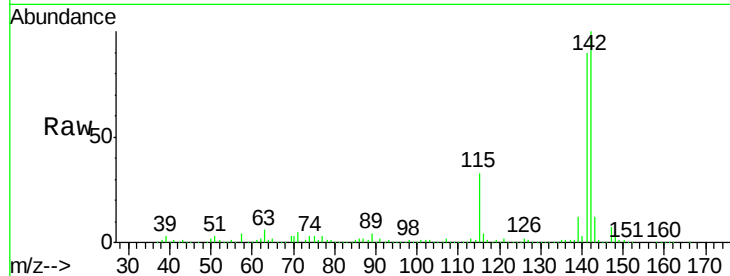




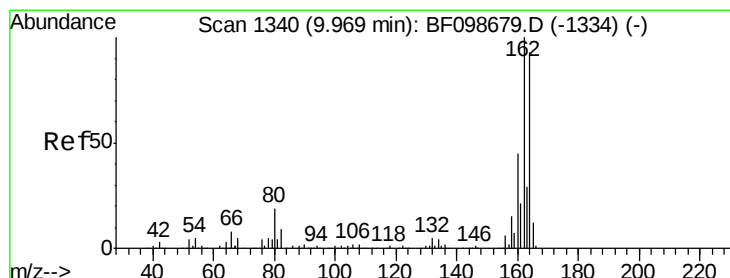
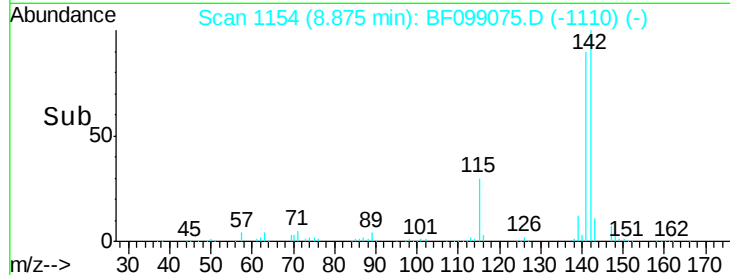
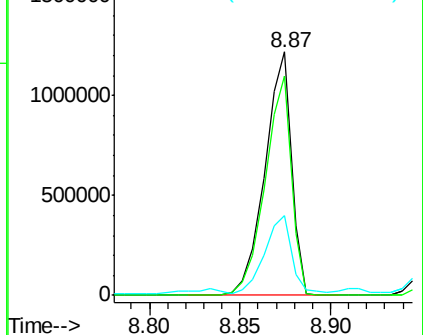
#37  
2-Methylnaphthalene  
Concen: 856.27 ng  
RT: 8.87 min Scan# 1154  
Delta R.T. -0.04 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 1233564  
Ion Ratio Lower Upper  
142 100  
141 90.1 70.8 106.2  
115 33.0 26.1 39.1

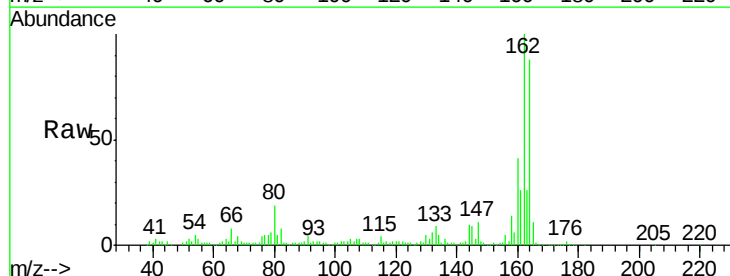


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

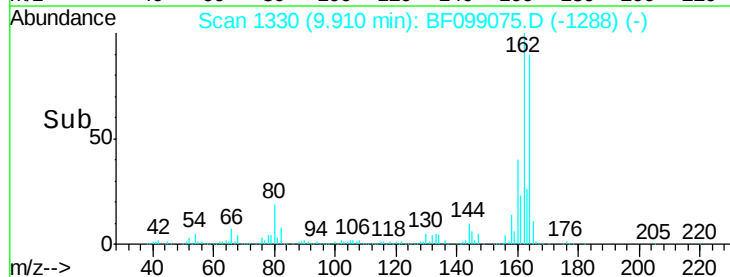
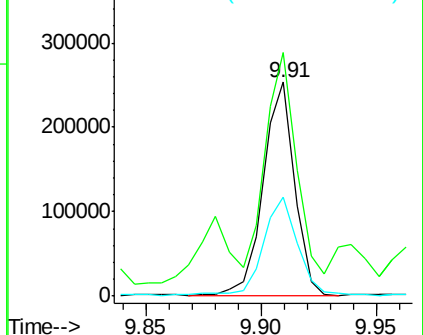


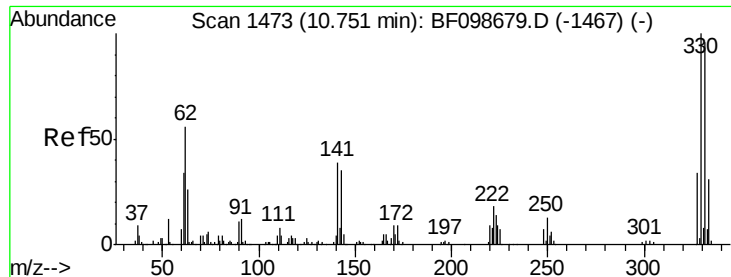
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.05 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Tgt Ion:164 Resp: 237993  
Ion Ratio Lower Upper  
164 100  
162 113.8 86.1 129.1  
160 46.1 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: 101.71 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampled :

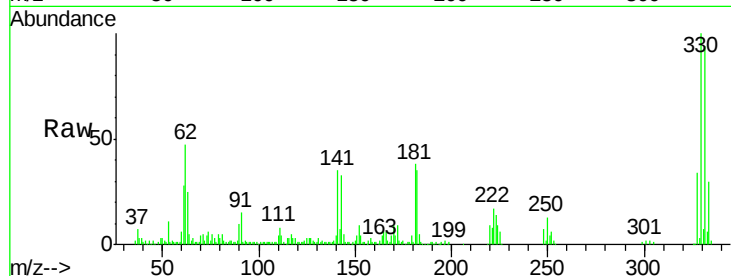
Tot Ion:330 Resp: 198071

Ion Ratio Lower Upper

330 100

332 95.4 77.0 115.6

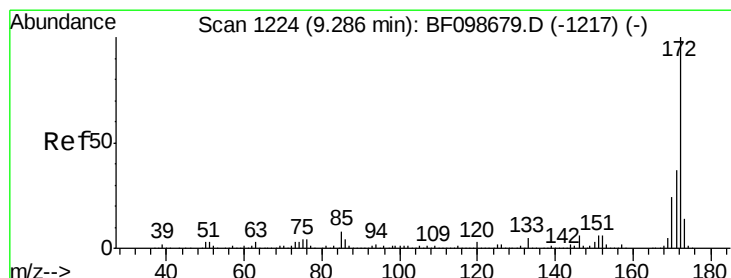
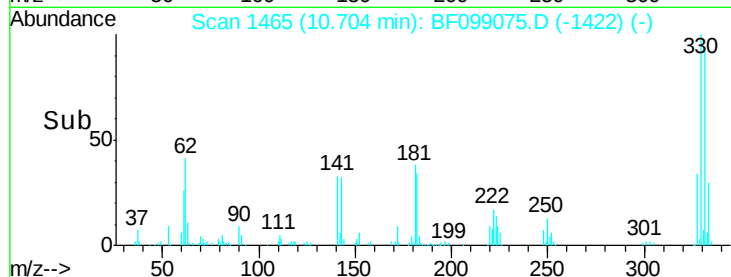
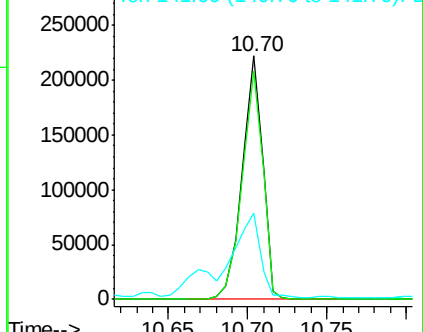
141 43.1 29.9 44.9



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



#44

2-Fluorobiphenyl

Concen: 76.93 ng

RT: 9.23 min Scan# 1214

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

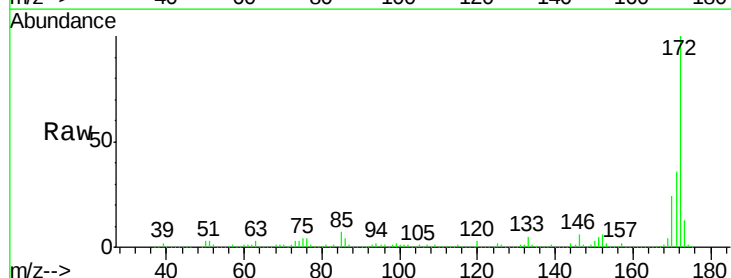
Tgt Ion:172 Resp: 1096775

Ion Ratio Lower Upper

172 100

171 36.2 29.7 44.5

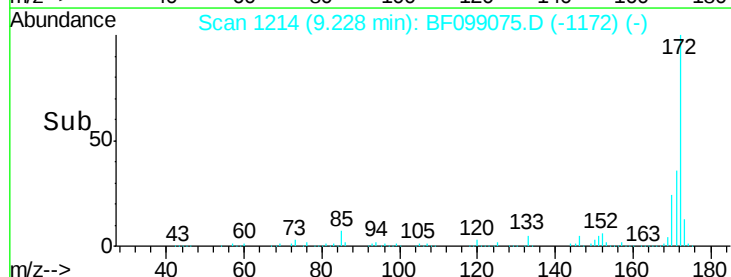
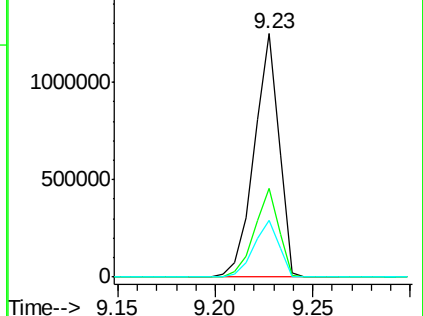
170 23.6 19.6 29.4

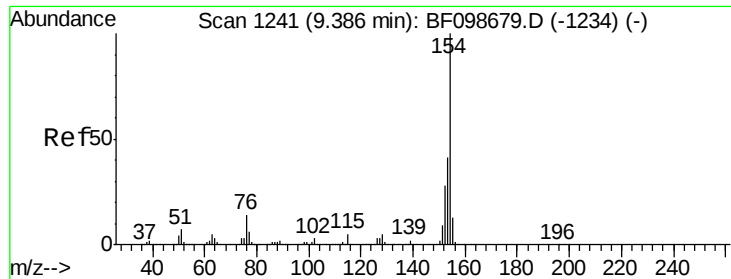


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 37.35 ng

RT: 9.33 min Scan# 1231

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

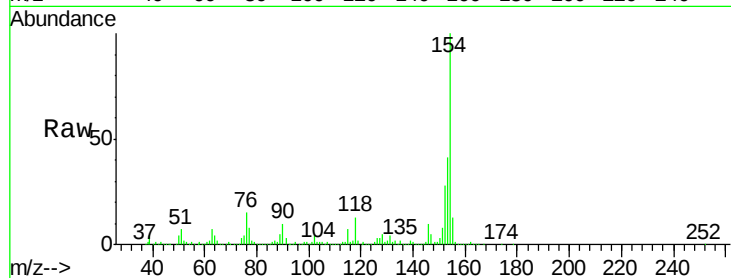
Tot Ion:154 Resp: 764044

Ion Ratio Lower Upper

154 100

153 41.0 21.3 61.3

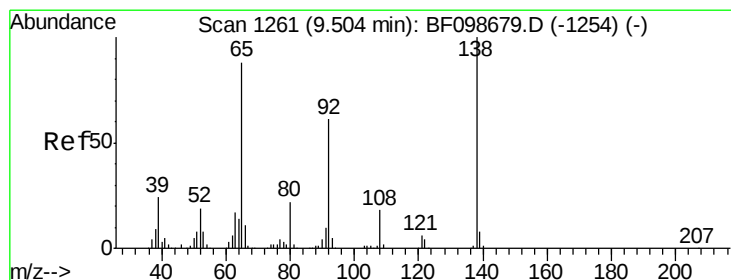
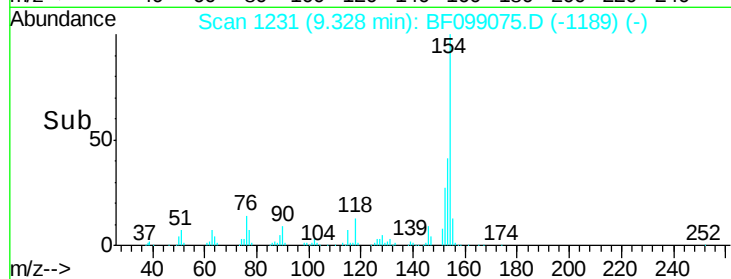
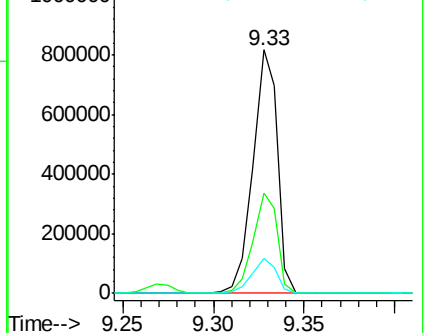
76 14.5 0.0 34.0



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): BF0



#47

2-Nitroaniline

Concen: 2.90 ng

RT: 9.45 min Scan# 1251

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

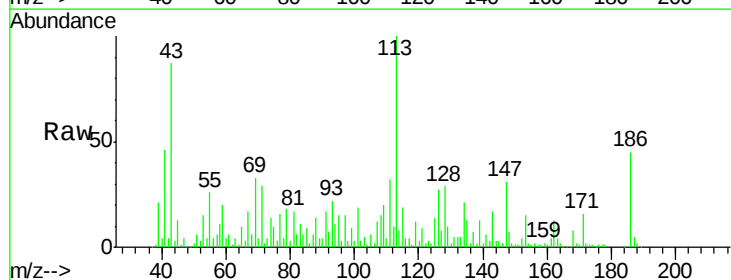
Tgt Ion: 65 Resp: 13652

Ion Ratio Lower Upper

65 100

92 73.2 55.8 83.6

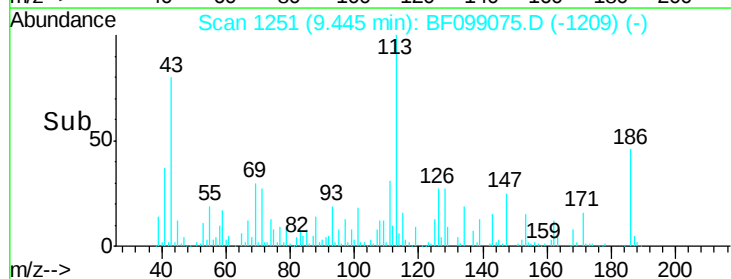
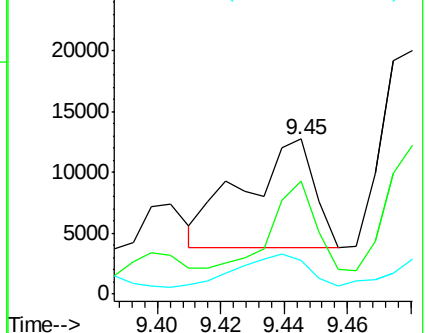
138 21.6 91.2 136.8#

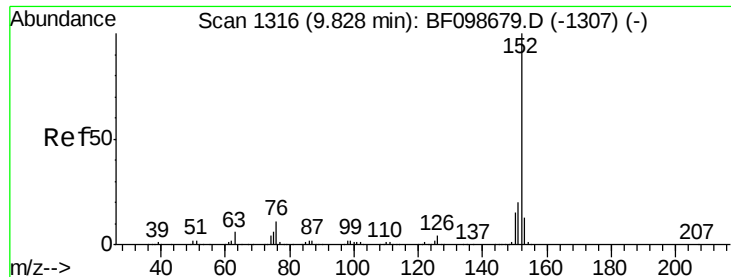


Abundance Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

Ion 138.00 (137.70 to 138.70): E





#48

Acenaphthylene

Concen: 5.53 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.06 min

Lab File: BF099075.D

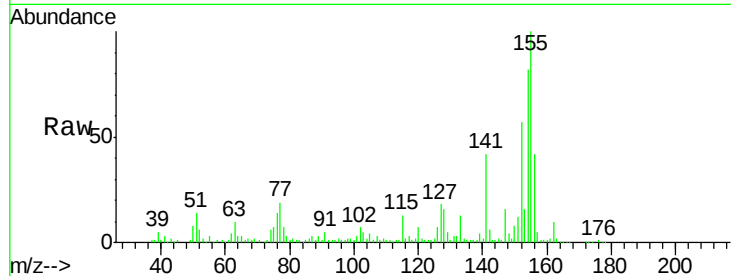
Acq: 4 Oct 2017 19:06

Instrument :

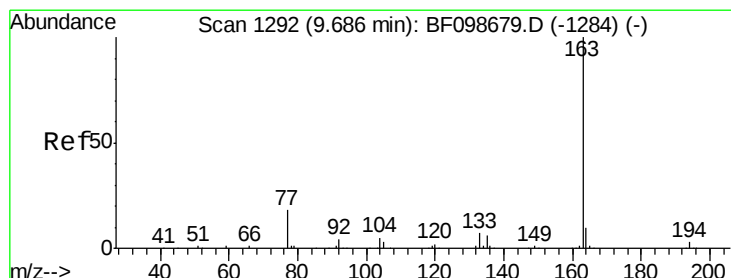
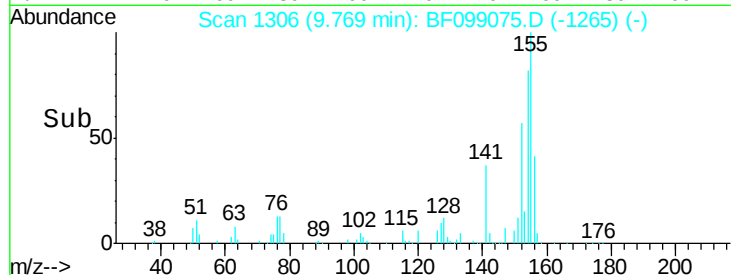
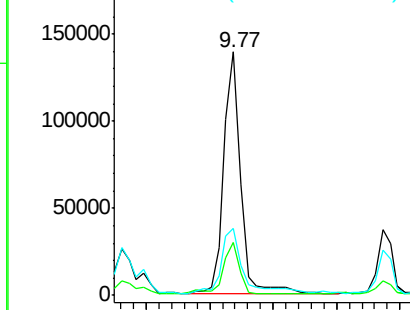
BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 152   | Resp: | 130053 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 151      | 21.7  | 16.3  | 24.5   |
| 153      | 27.5  | 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



#49

Dimethylphthalate

Concen: 5.01 ng

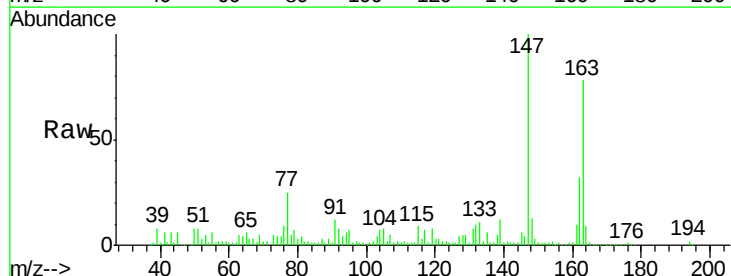
RT: 9.63 min Scan# 1282

Delta R.T. -0.05 min

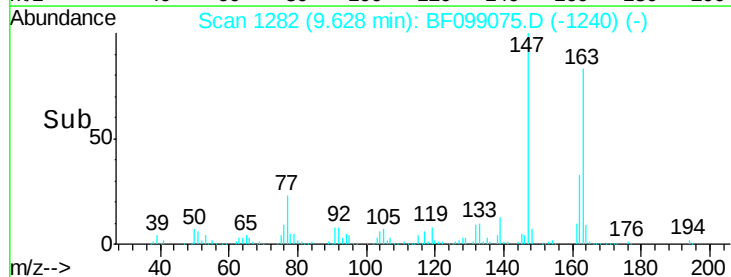
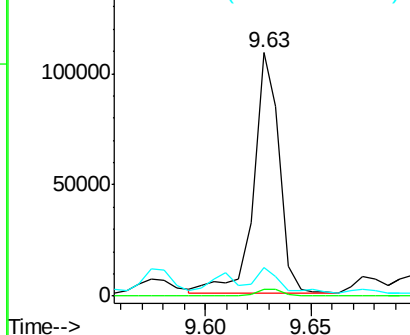
Lab File: BF099075.D

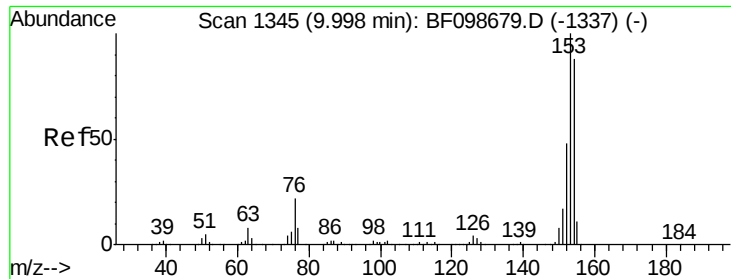
Acq: 4 Oct 2017 19:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 89961 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 2.9   | 2.7   | 4.1   |
| 164      | 11.7  | 8.2   | 12.2  |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 75.75 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

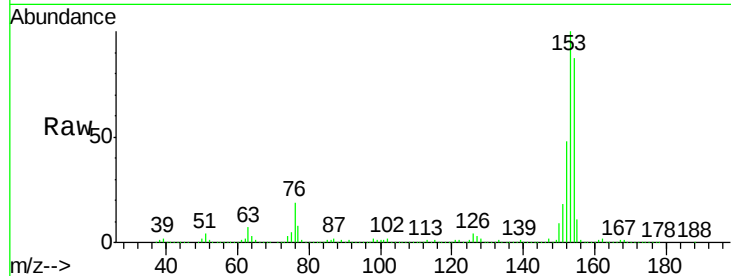
Tot Ion:154 Resp: 1128122

Ion Ratio Lower Upper

154 100

153 114.5 91.2 136.8

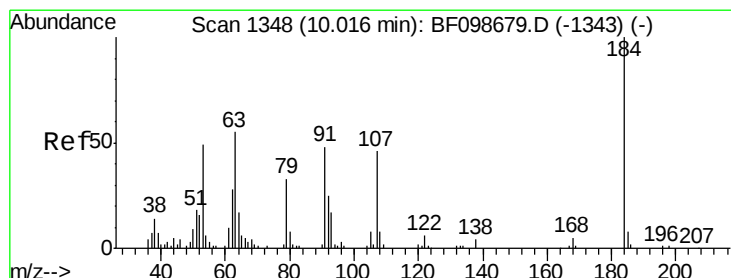
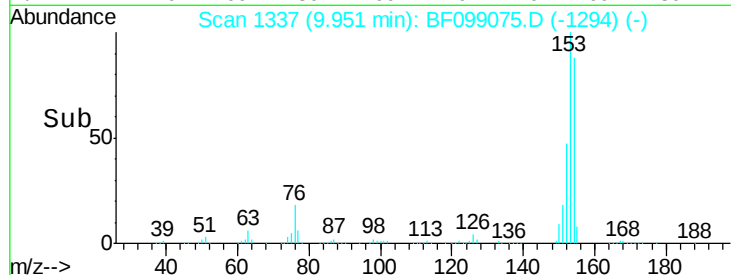
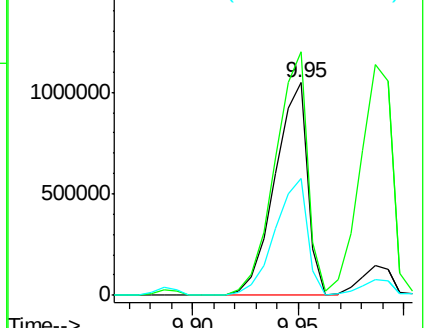
152 54.7 43.8 65.8



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: 5.97 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

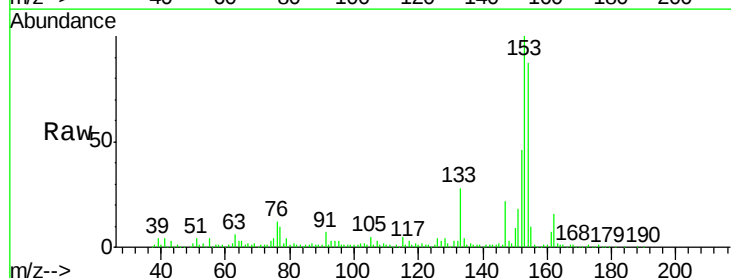
Tgt Ion:184 Resp: 315

Ion Ratio Lower Upper

184 100

63 2928.5 54.2 81.2#

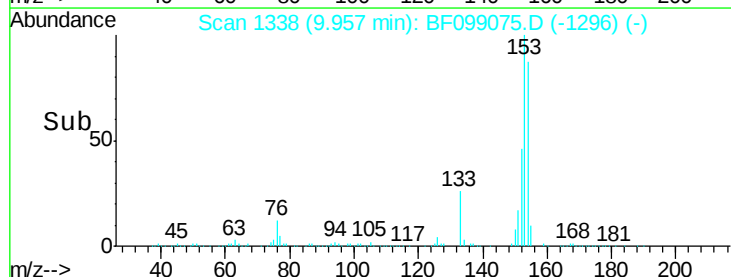
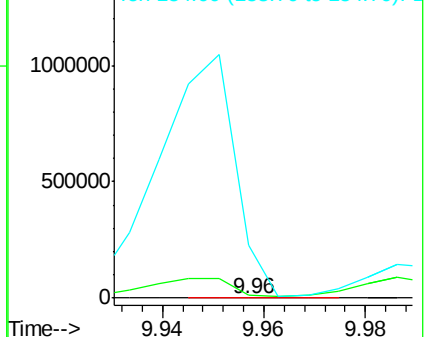
154 44850.7 53.5 80.3#

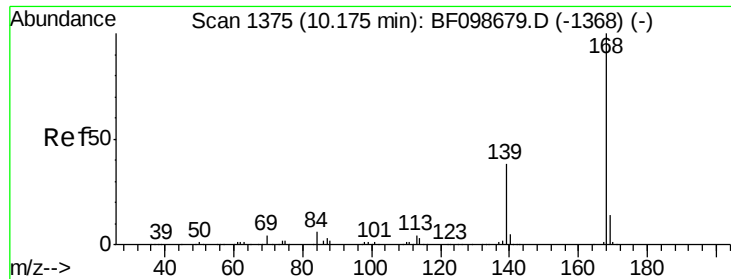


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

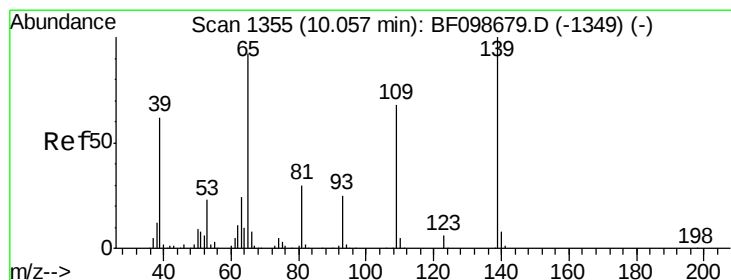
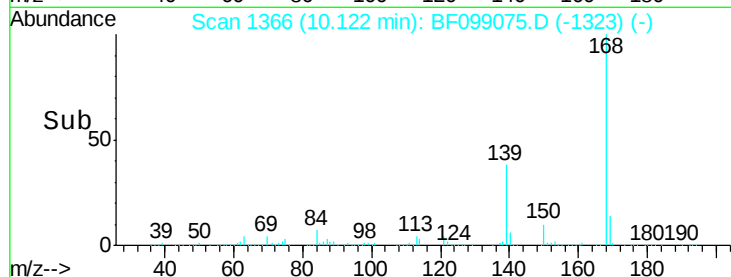
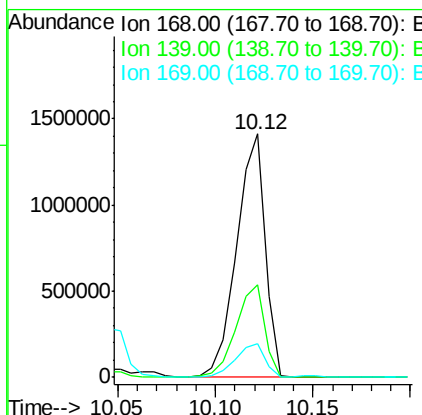
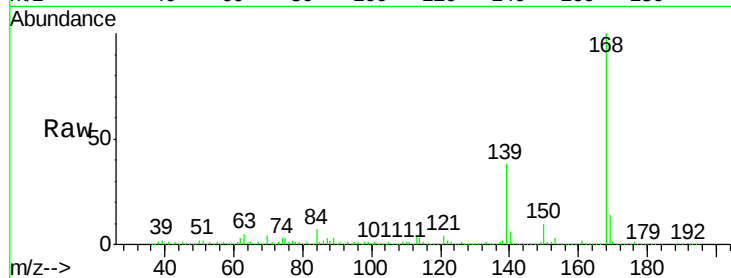




#54  
Dibenzenofuran  
Concen: 71.90 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. -0.05 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

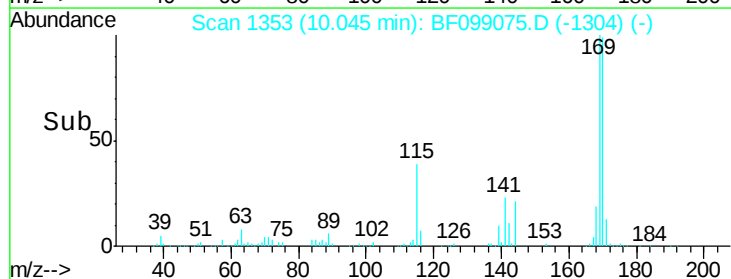
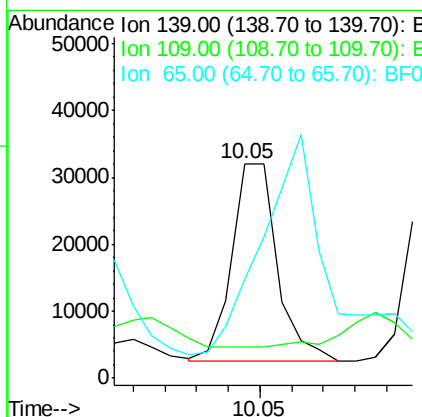
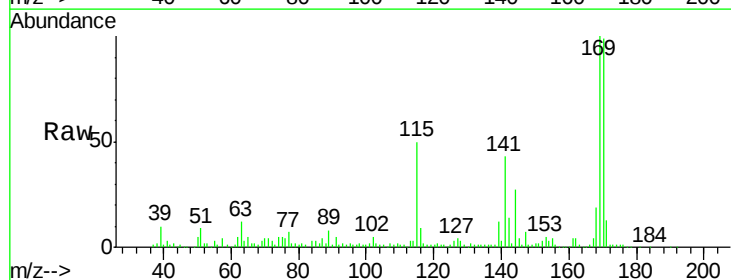
Instrument :  
BNA\_F  
ClientSampleId :

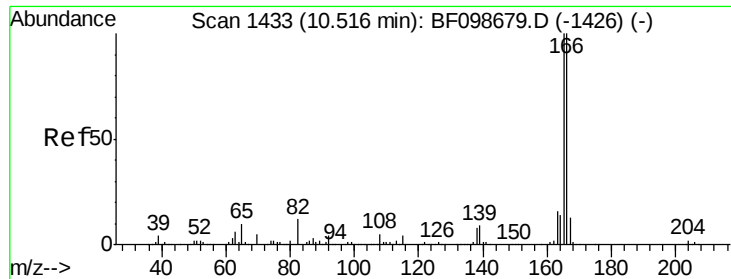
Tot Ion:168 Resp: 1425579  
Ion Ratio Lower Upper  
168 100  
139 38.2 30.1 45.1  
169 13.7 10.9 16.3



#55  
4-Nitrophenol  
Concen: 7.65 ng  
RT: 10.05 min Scan# 1353  
Delta R.T. -0.01 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Tgt Ion:139 Resp: 29492  
Ion Ratio Lower Upper  
139 100  
109 14.7 48.4 88.4#  
65 46.2 72.6 112.6#

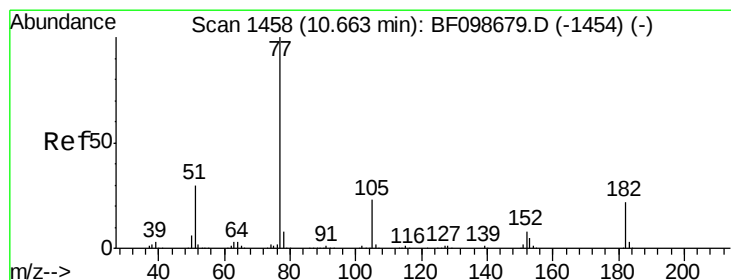
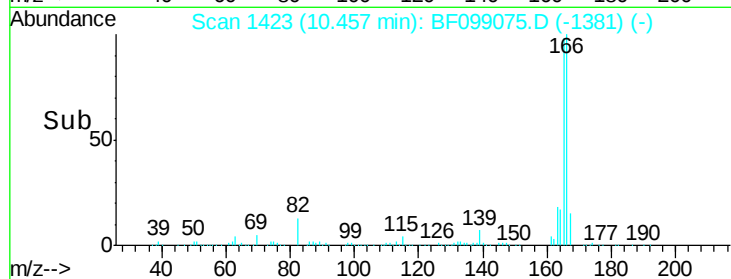
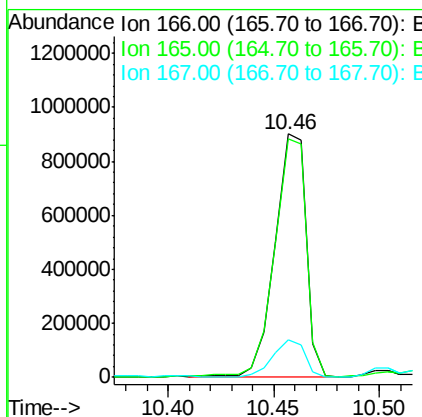
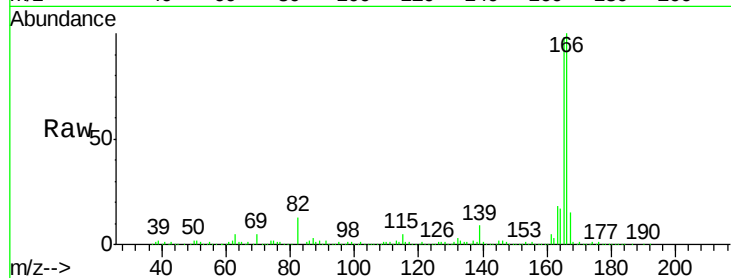




#57  
 Fluorene  
 Concen: 58.10 ng  
 RT: 10.46 min Scan# 1423  
 Delta R.T. -0.05 min  
 Lab File: BF099075.D  
 Acq: 4 Oct 2017 19:06

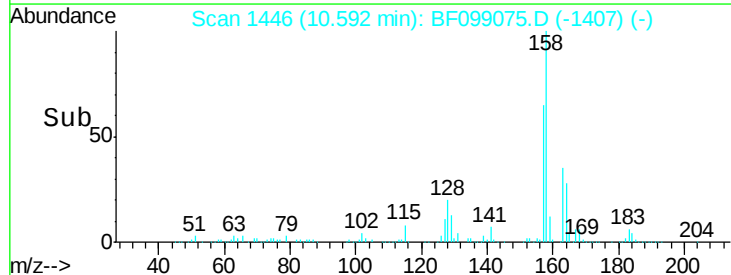
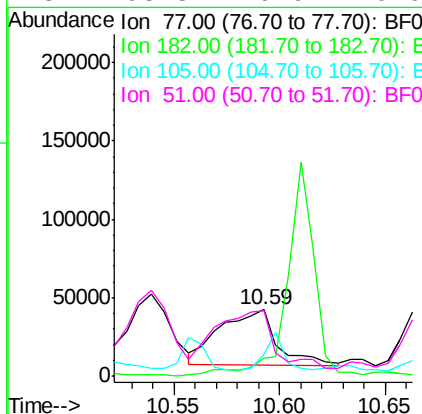
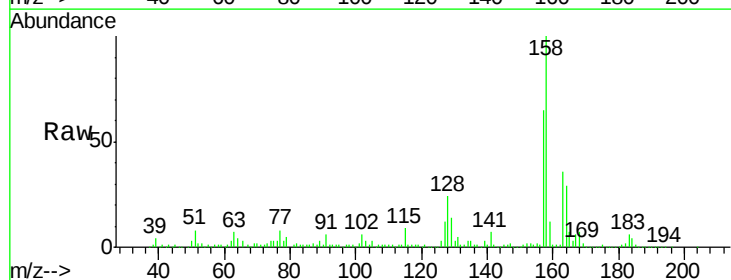
Instrument :  
 BNA\_F  
 ClientSampleId :

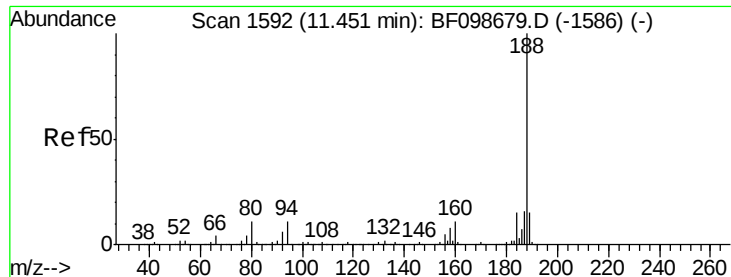
Tot Ion:166 Resp: 925932  
 Ion Ratio Lower Upper  
 166 100  
 165 98.2 79.8 119.8  
 167 15.3 10.6 16.0



#62  
 Azobenzene  
 Concen: 4.16 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.07 min  
 Lab File: BF099075.D  
 Acq: 4 Oct 2017 19:06

Tgt Ion: 77 Resp: 67067  
 Ion Ratio Lower Upper  
 77 100  
 182 26.9 1.7 41.7  
 105 32.0 3.0 43.0  
 51 98.8 9.9 49.9#

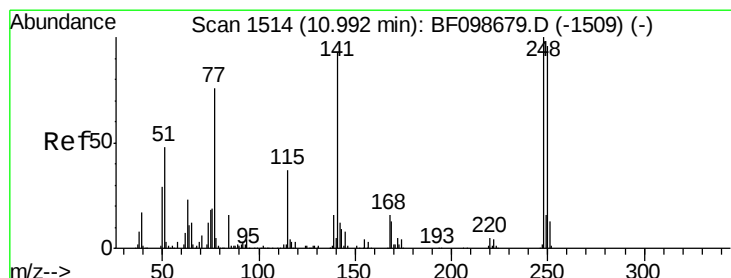
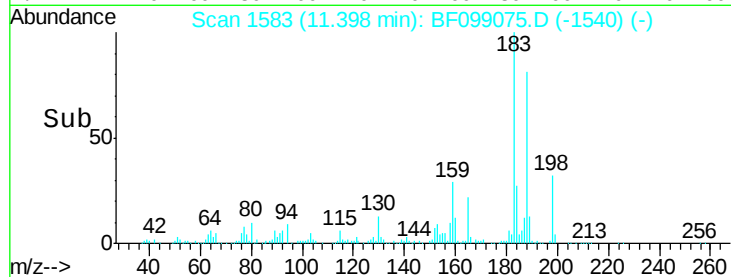
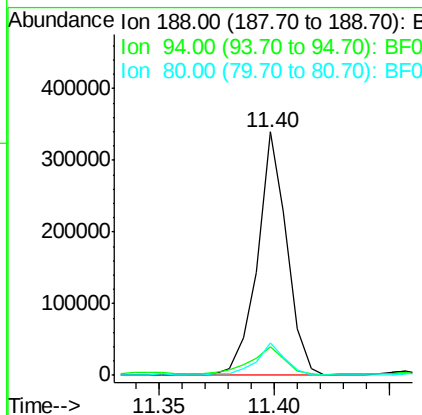
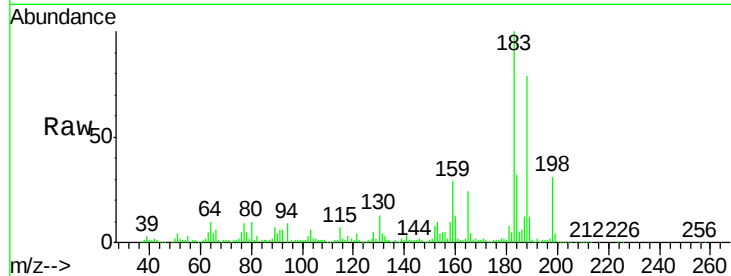




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.05 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

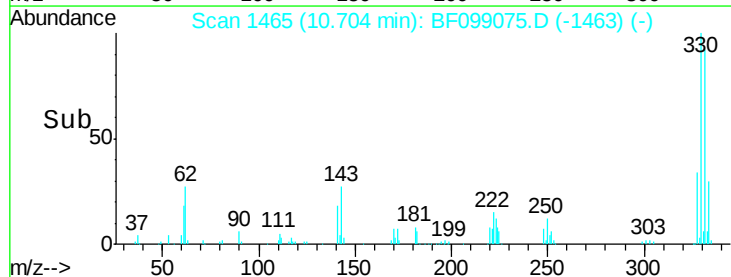
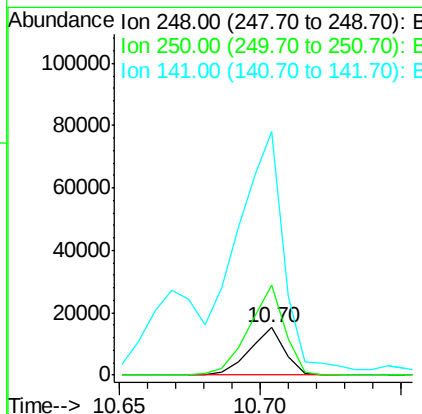
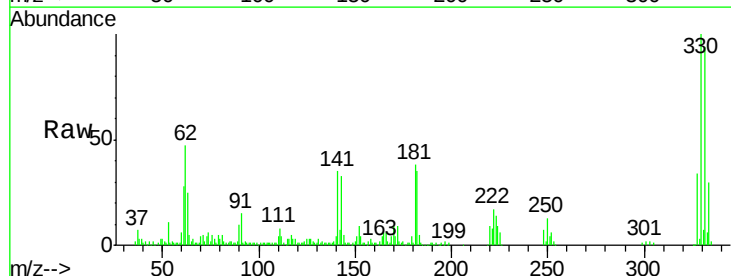
Instrument :  
BNA\_F  
ClientSampleId :

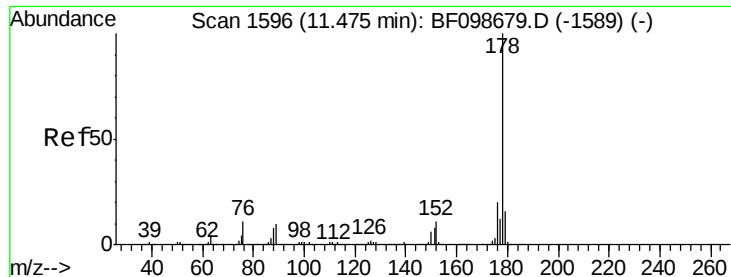
Tot Ion:188 Resp: 298117  
Ion Ratio Lower Upper  
188 100  
94 12.0 8.5 12.7  
80 13.1 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 4.50 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. -0.29 min  
Lab File: BF099075.D  
Acq: 4 Oct 2017 19:06

Tgt Ion:248 Resp: 13133  
Ion Ratio Lower Upper  
248 100  
250 188.0 76.9 115.3#  
141 510.6 74.4 111.6#





#70

Phenanthrene

Concen: 81.19 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

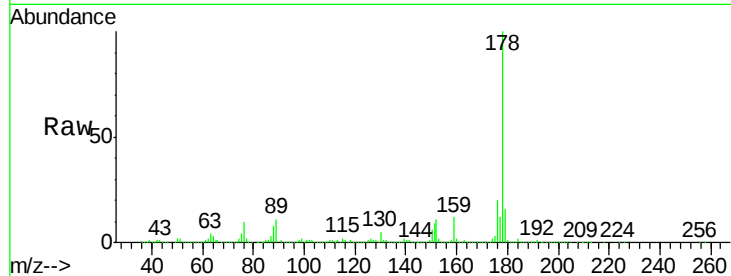
Tot Ion:178 Resp: 1295563

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

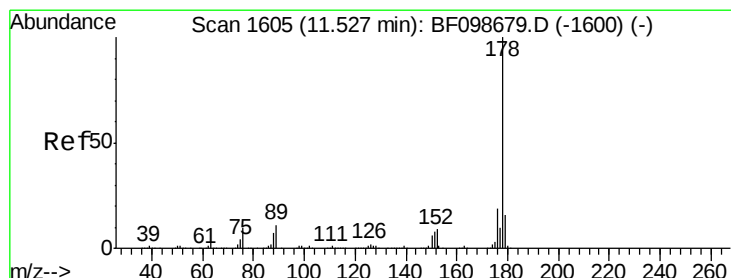
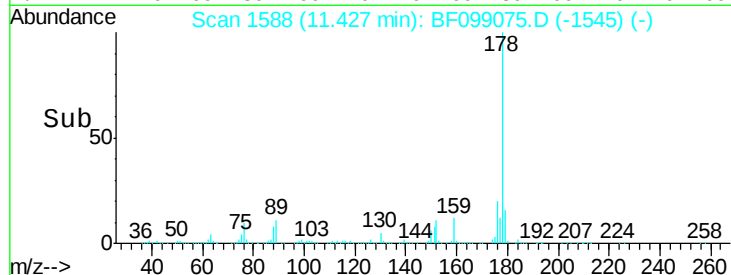
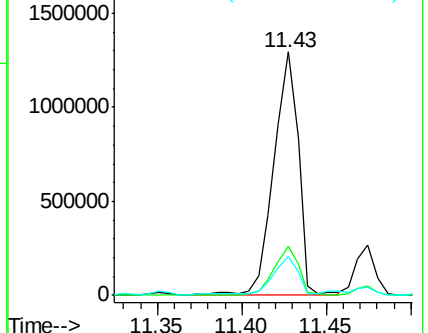
179 16.0 13.0 19.6



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: 12.83 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

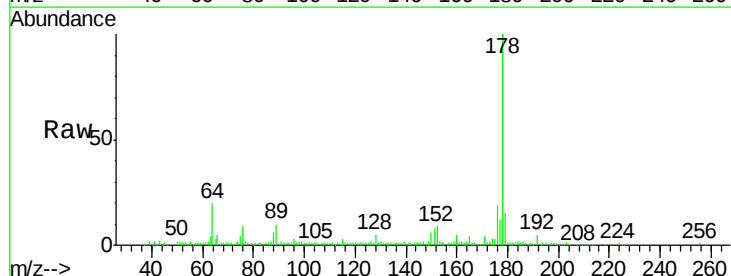
Tgt Ion:178 Resp: 209480

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.2

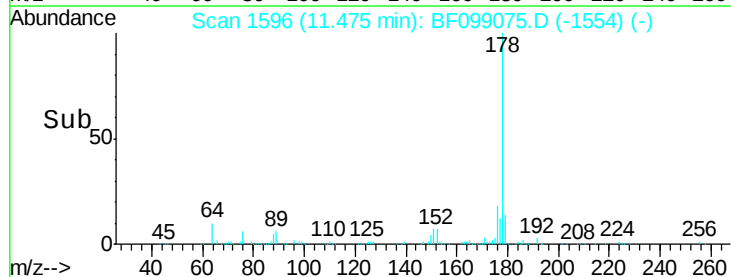
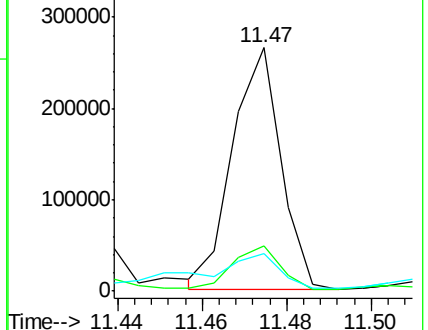
179 15.3 12.6 19.0

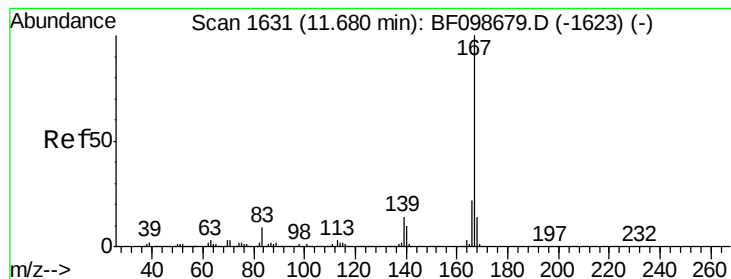


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 55.95 ng

RT: 11.64 min Scan# 1624

Delta R.T. -0.04 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

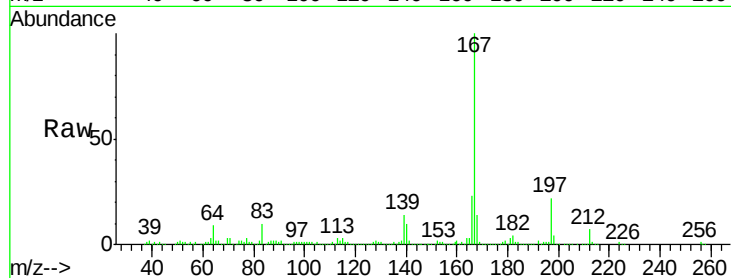
Tot Ion:167 Resp: 894662

Ion Ratio Lower Upper

167 100

166 22.8 17.6 26.4

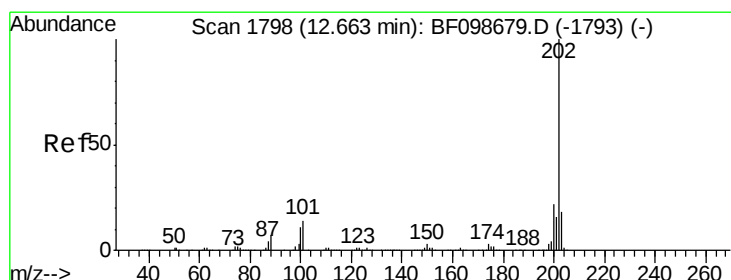
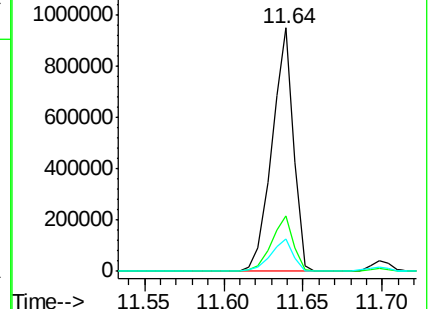
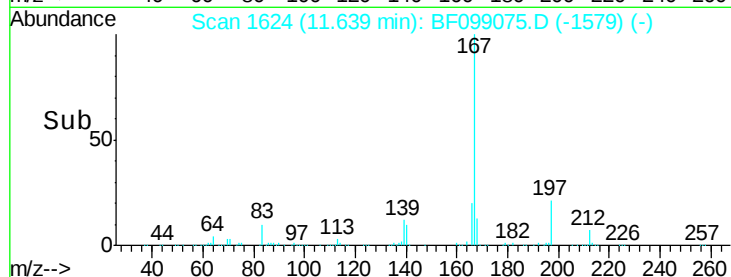
139 13.6 10.9 16.3



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



#74

Fluoranthene

Concen: 7.94 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.04 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

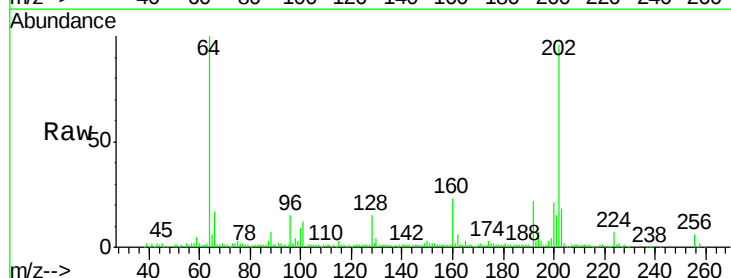
Tgt Ion:202 Resp: 128377

Ion Ratio Lower Upper

202 100

101 12.9 0.0 34.1

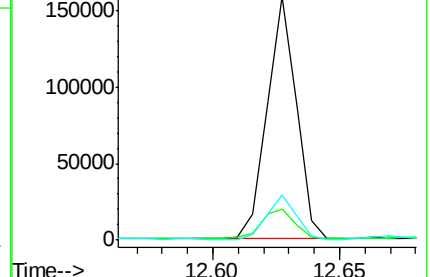
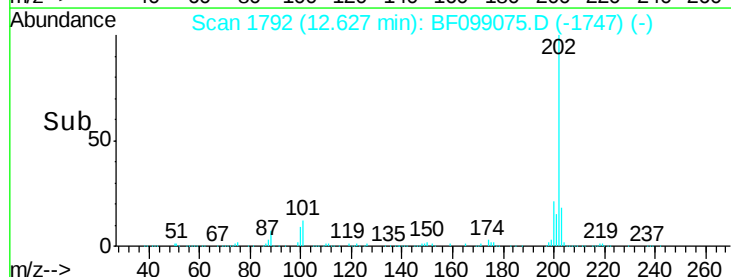
203 18.3 0.0 38.1

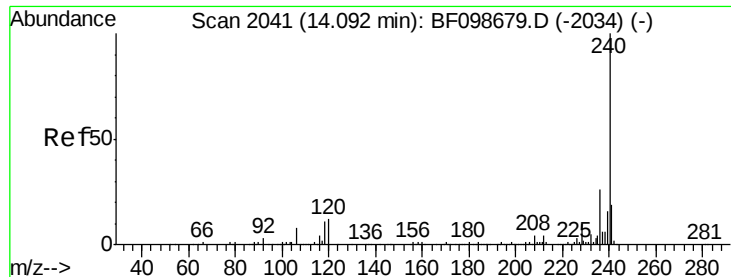


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

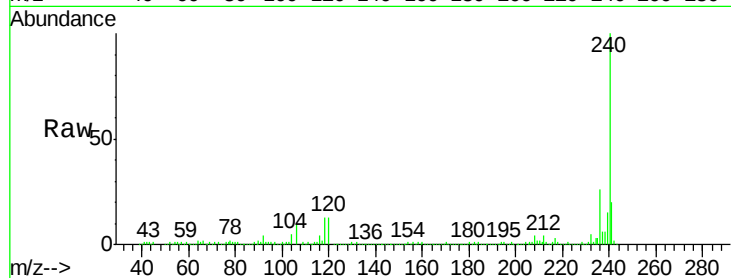
Tot Ion:240 Resp: 233922

Ion Ratio Lower Upper

240 100

120 13.4 9.5 14.3

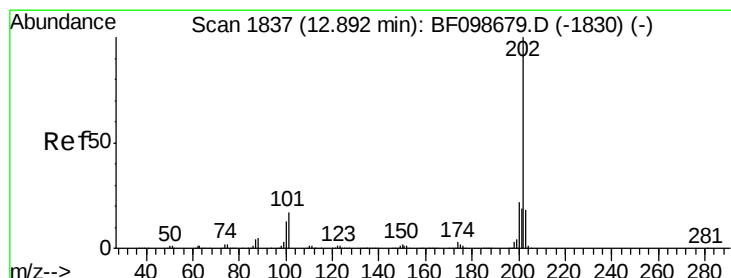
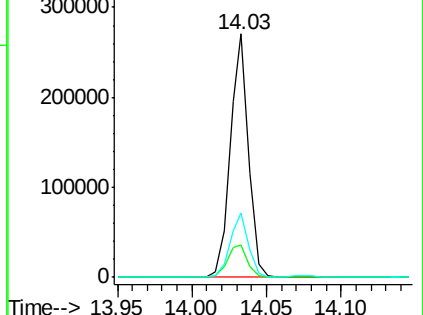
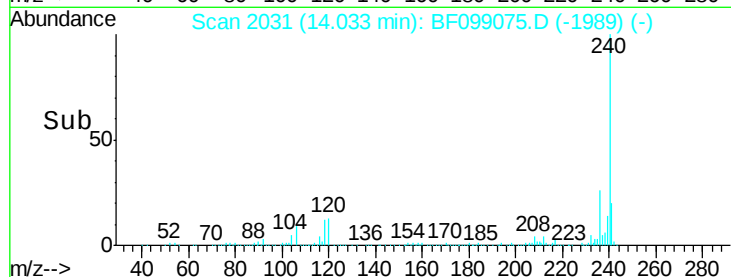
236 26.4 20.7 31.1



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



#77

Pyrene

Concen: 4.67 ng

RT: 12.85 min Scan# 1829

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

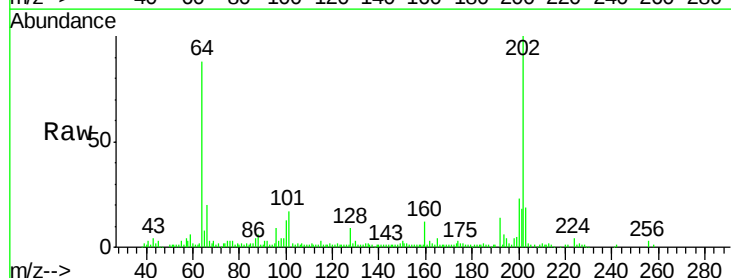
Tgt Ion:202 Resp: 83359

Ion Ratio Lower Upper

202 100

200 22.7 17.4 26.2

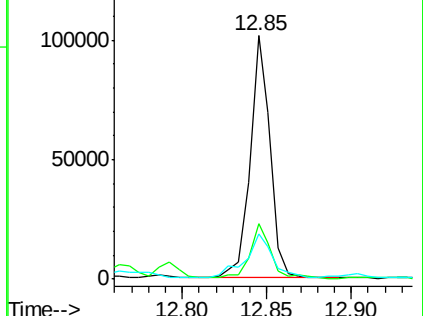
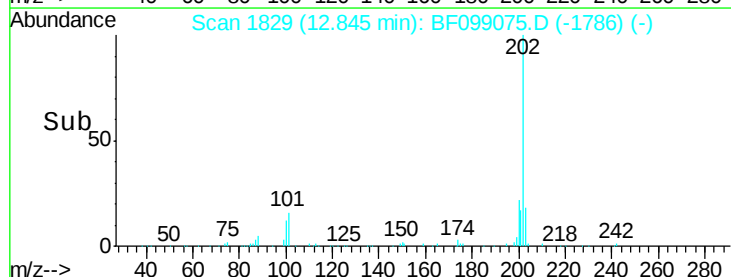
203 18.7 14.3 21.5

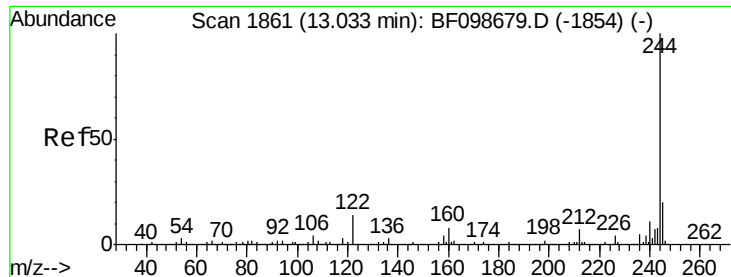


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 66.19 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.05 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

Instrument :

BNA\_F

ClientSampleId :

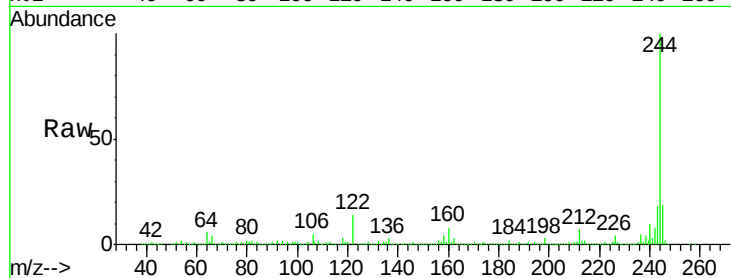
Tot Ion:244 Resp: 680848

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

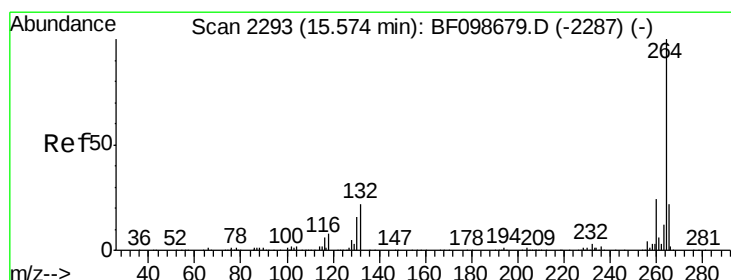
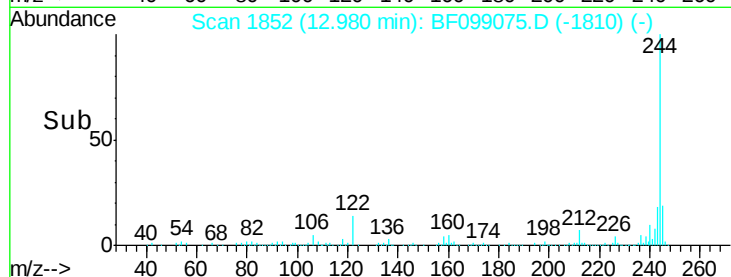
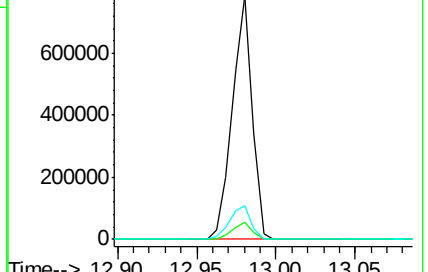
122 13.8 11.0 16.4



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

Perylene-d12

Concen: 20.00 ng

RT: 15.50 min Scan# 2281

Delta R.T. -0.07 min

Lab File: BF099075.D

Acq: 4 Oct 2017 19:06

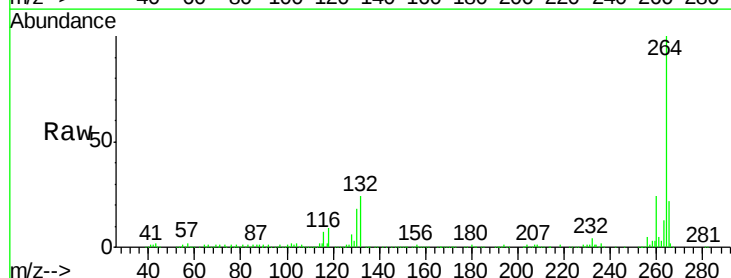
Tgt Ion:264 Resp: 225681

Ion Ratio Lower Upper

264 100

260 24.4 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

