

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012115\  
 Data File : BF077002.D  
 Acq On : 21 Jan 2015 18:41  
 Operator : TP/IZ  
 Sample : G1100-14DL 5X  
 Misc : W/BASE  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 8036DL

Quant Time: Jan 22 10:28:39 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 22 00:29:07 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 28616    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.76 | 136  | 121106   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.88 | 164  | 63435    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 17.69 | 188  | 105896   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.19 | 240  | 103016   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 22.85 | 264  | 97371    | 20.00 | ng    | -0.06    |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 4.90  | 112 | 54913  | 31.55 | ng | 0.00  |
| 7) Phenol-d6                | 7.26  | 99  | 73440  | 33.45 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 9.14  | 82  | 45779  | 20.94 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 16.59 | 330 | 16190  | 31.44 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 13.42 | 172 | 94131  | 22.58 | ng | 0.00  |
| 78) Terphenyl-d14           | 19.92 | 244 | 100732 | 22.51 | ng | -0.01 |

|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 4) n-Nitrosodimethylamine      | 1.64  | 42  | 20872   | 21.85  | ng | 97   |
| 11) bis(2-Chloroethyl)ether    | 7.38  | 93  | 18523   | 10.15  | ng | # 63 |
| 12) 1,3-Dichlorobenzene        | 7.69  | 146 | 16768   | 7.35   | ng | 98   |
| 13) 1,4-Dichlorobenzene        | 7.89  | 146 | 75189   | 31.06  | ng | 97   |
| 14) 1,2-Dichlorobenzene        | 8.21  | 146 | 66110   | 29.64  | ng | 97   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.64  | 45  | 28880m  | 11.78  | ng |      |
| 24) Nitrobenzene               | 9.19  | 77  | 27945m  | 12.55  | ng |      |
| 28) bis(2-Chloroethoxy)methane | 10.42 | 93  | 63706   | 28.15  | ng | 96   |
| 30) 1,2,4-Trichlorobenzene     | 10.68 | 180 | 18155   | 10.18  | ng | 92   |
| 34) Hexachlorobutadiene        | 11.18 | 225 | 26283   | 24.85  | ng | # 88 |
| 37) 2-Methylnaphthalene        | 12.47 | 142 | 55925   | 13.13  | ng | 97   |
| 46) 2-Chloronaphthalene        | 13.59 | 162 | 36152   | 9.34   | ng | 98   |
| 48) Acenaphthylene             | 14.54 | 152 | 78998   | 12.10  | ng | 100  |
| 49) Dimethylphthalate          | 14.48 | 163 | 80084   | 17.80  | ng | 99   |
| 50) 2,6-Dinitrotoluene         | 14.59 | 165 | 14349   | 15.96  | ng | 90   |
| 51) Acenaphthene               | 14.96 | 154 | 67734   | 18.29  | ng | 95   |
| 54) Dibenzofuran               | 15.39 | 168 | 141179  | 26.17  | ng | 99   |
| 57) Fluorene                   | 16.12 | 166 | 24808   | 5.43   | ng | 95   |
| 60) 4-Chlorophenyl-phenylether | 16.22 | 204 | 12367   | 6.61   | ng | 85   |
| 65) n-Nitrosodiphenylamine     | 16.46 | 169 | 25705   | 6.81   | ng | 99   |
| 66) 4-Bromophenyl-phenylether  | 17.07 | 248 | 19603   | 18.27  | ng | 94   |
| 67) Hexachlorobenzene          | 17.08 | 284 | 15291   | 13.52  | ng | # 84 |
| 71) Anthracene                 | 17.81 | 178 | 127864  | 19.86  | ng | 98   |
| 73) Di-n-butylphthalate        | 18.68 | 149 | 114945  | 15.90  | ng | 99   |
| 74) Fluoranthene               | 19.37 | 202 | 48607   | 7.18   | ng | 98   |
| 77) Pyrene                     | 19.65 | 202 | 135405  | 19.18  | ng | 100  |
| 79) Butylbenzylphthalate       | 20.59 | 149 | 91251   | 28.54  | ng | 91   |
| 80) Benzo(a)anthracene         | 21.18 | 228 | 154539  | 23.91  | ng | 98   |
| 81) 3,3'-Dichlorobenzidine     | 21.19 | 252 | 10913   | 5.31   | ng | # 91 |
| 83) Bis(2-ethylhexyl)phthalate | 21.33 | 149 | 151275  | 34.19  | ng | 99   |
| 84) Di-n-octyl phthalate       | 22.09 | 149 | 152178  | 19.82  | ng | 98   |
| 87) Benzo(b)fluoranthene       | 22.43 | 252 | 195234  | 29.77  | ng | 98   |
| 88) Benzo(k)fluoranthene       | 22.46 | 252 | 128181m | 22.37  | ng |      |
| 89) Benzo(a)pyrene             | 22.78 | 252 | 171386  | 29.63  | ng | # 95 |

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Misc : W/BASE  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

Quant Time: Jan 22 10:28:39 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 22 00:29:07 2015  
Response via : Initial Calibration

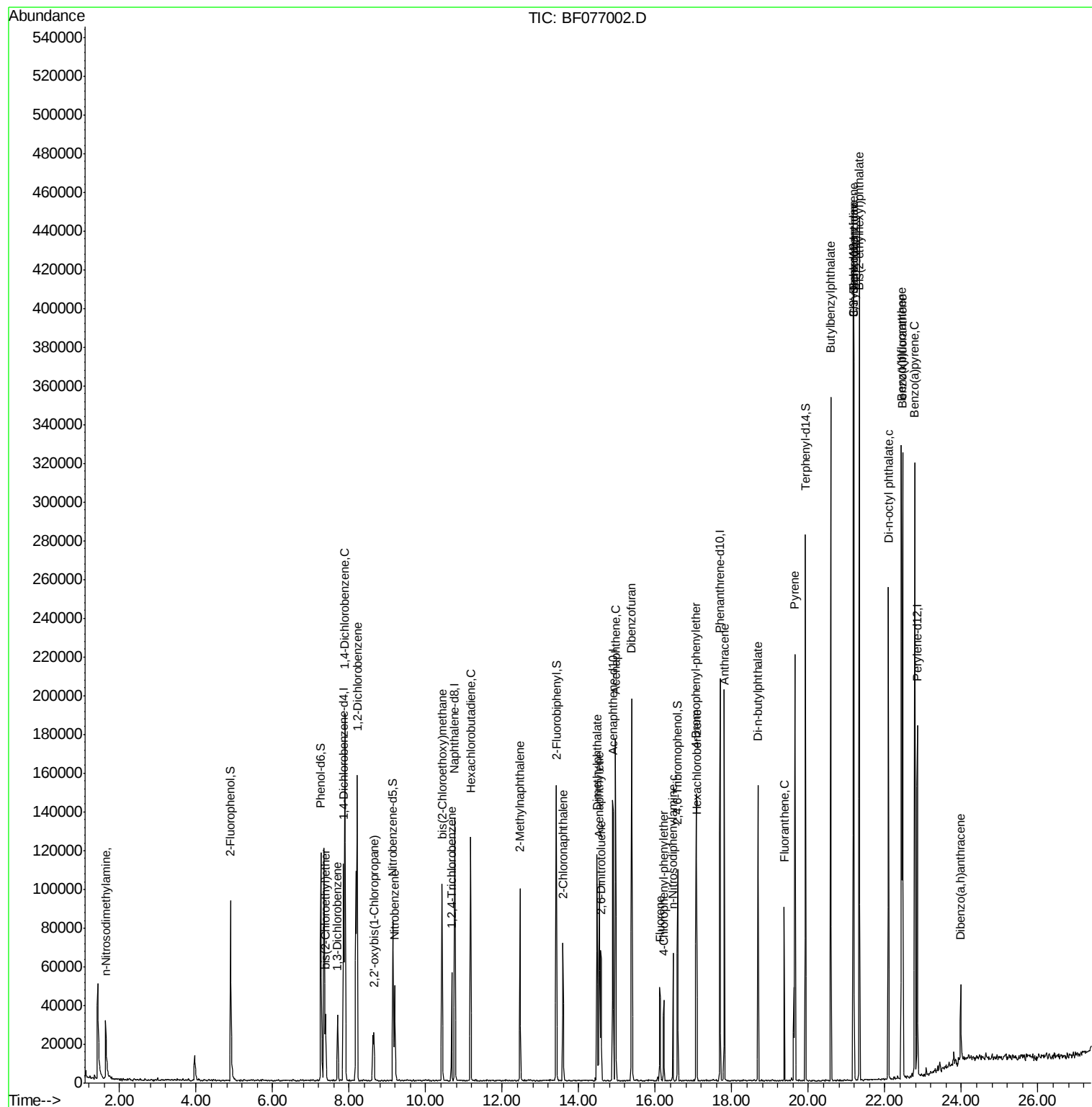
| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 90) Dibenzo(a,h)anthracene | 23.98 | 278  | 23128    | 4.36 | ng    | 96       |

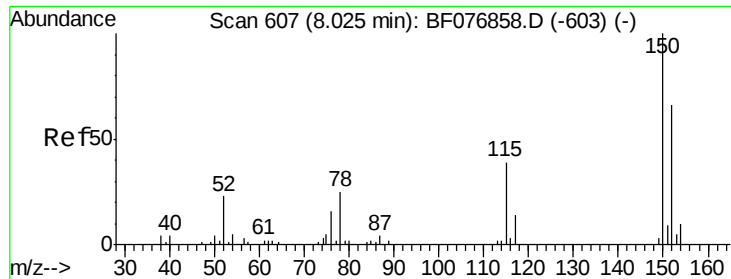
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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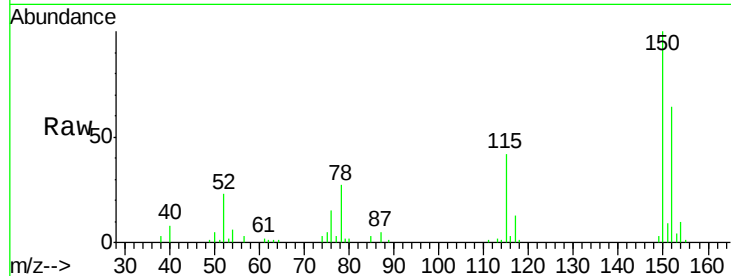


#1

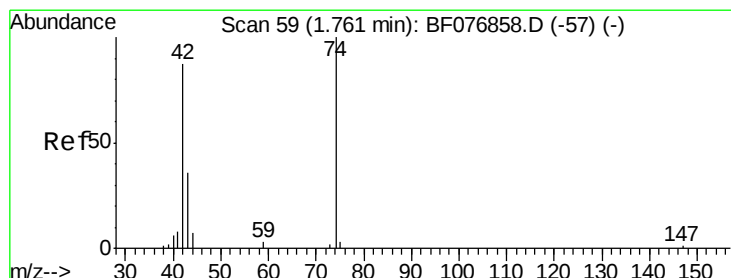
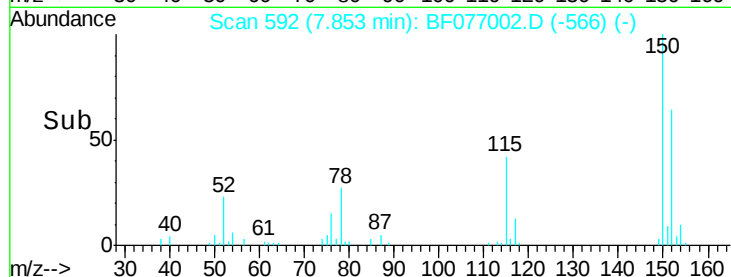
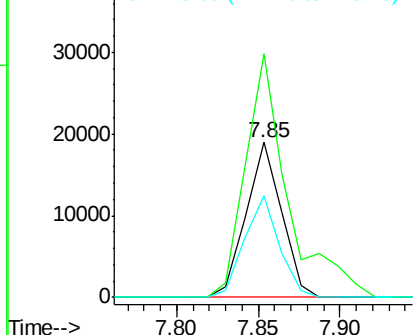
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.85 min Scan# 592  
Delta R.T. -0.00 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

Tot Ion:152 Resp: 28616  
Ion Ratio Lower Upper  
152 100  
150 157.0 121.7 182.5  
115 65.6 47.0 70.6



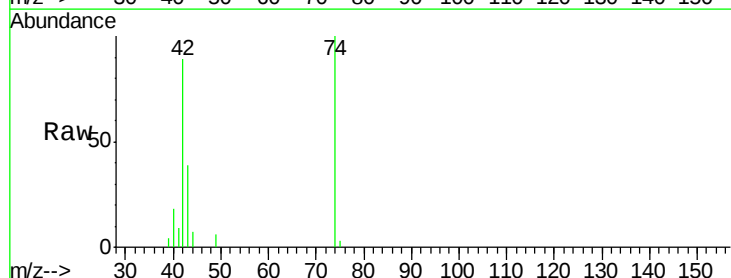
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



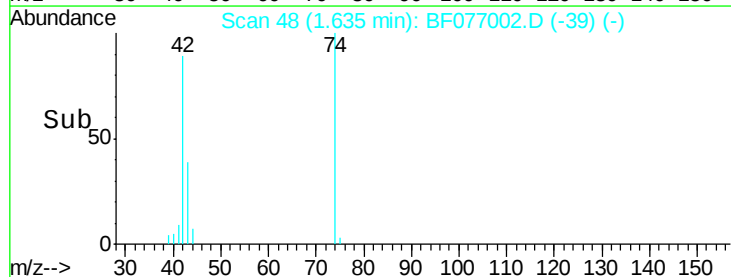
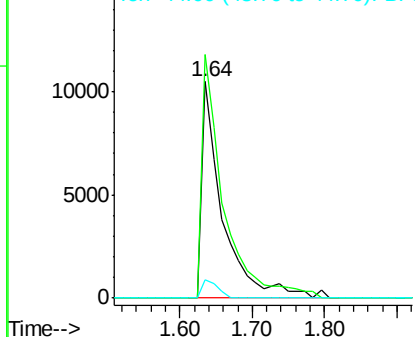
#4

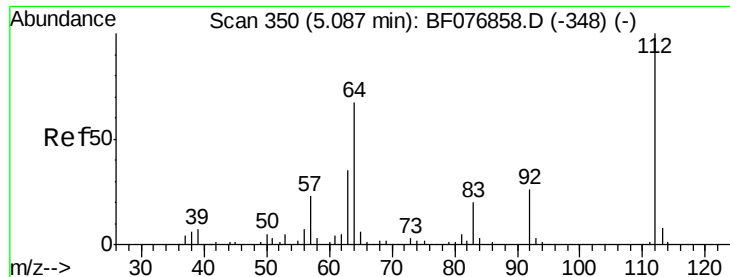
n-Nitrosodimethylamine  
Concen: 21.85 ng  
RT: 1.64 min Scan# 48  
Delta R.T. -0.00 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion: 42 Resp: 20872  
Ion Ratio Lower Upper  
42 100  
74 112.6 92.4 138.6  
44 8.2 6.2 9.2



Abundance Ion 42.00 (41.70 to 42.70): BF0  
Ion 74.00 (73.70 to 74.70): BF0  
Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 31.55 ng

RT: 4.90 min Scan# 334

Delta R.T. -0.00 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

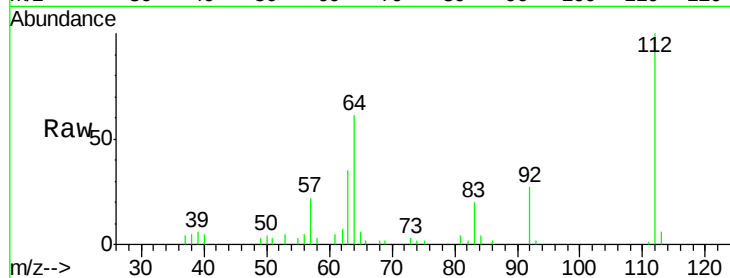
Tot Ion: 112 Resp: 54913

Ion Ratio Lower Upper

112 100

64 60.7 54.2 81.4

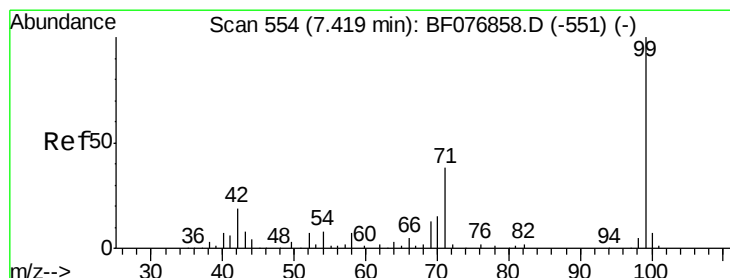
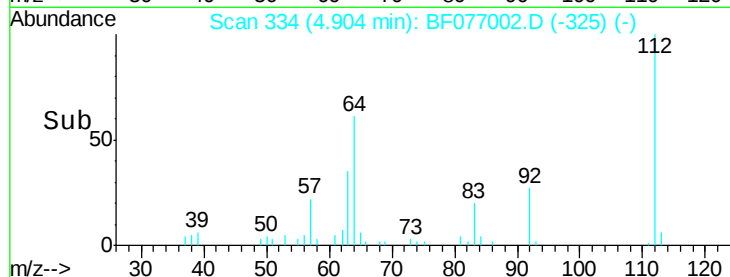
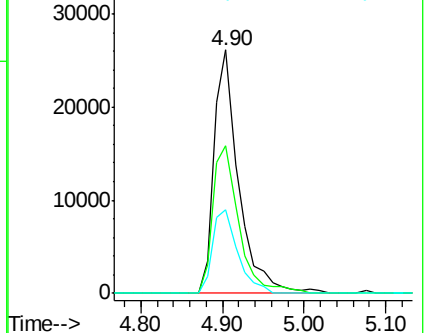
63 34.6 28.4 42.6



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



#7

Phenol-d6

Concen: 33.45 ng

RT: 7.26 min Scan# 540

Delta R.T. -0.02 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

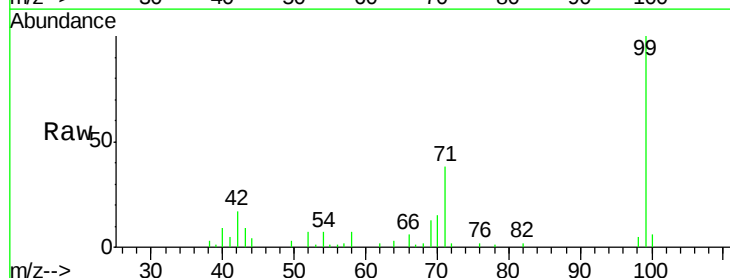
Tgt Ion: 99 Resp: 73440

Ion Ratio Lower Upper

99 100

42 17.5 15.0 22.4

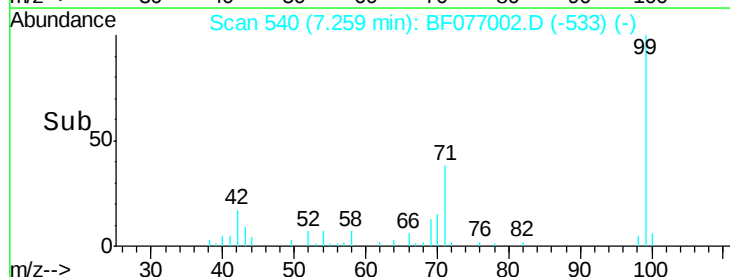
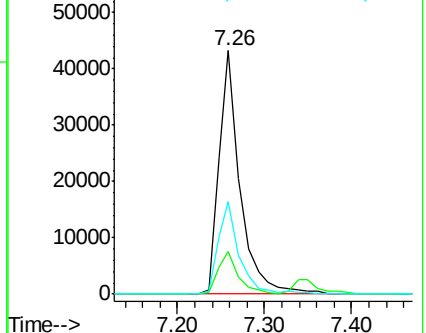
71 38.1 30.5 45.7

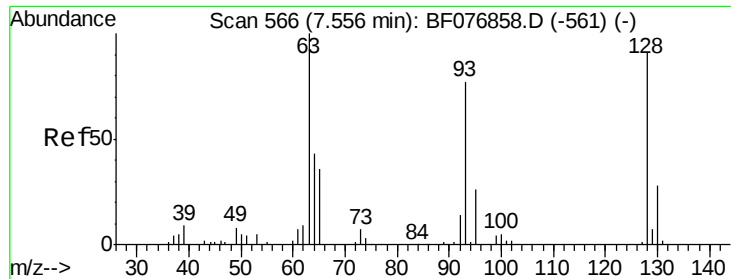


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

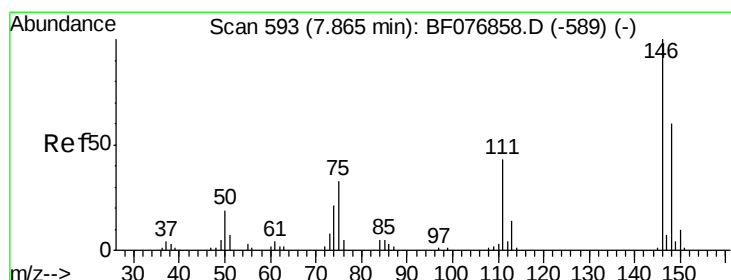
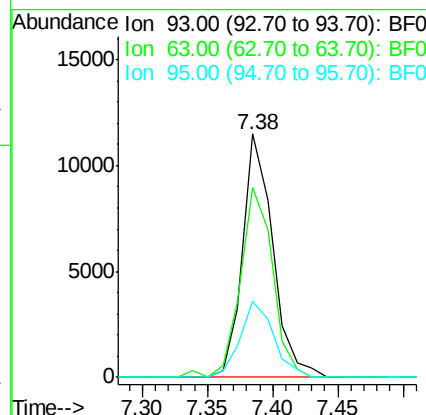
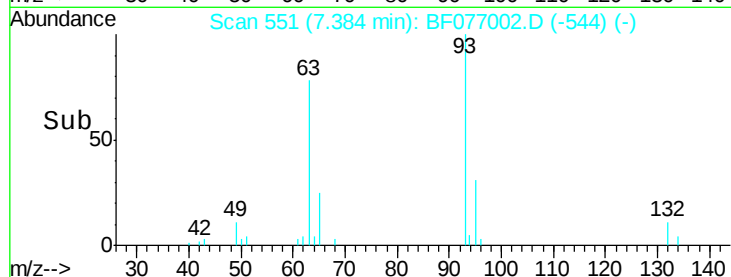
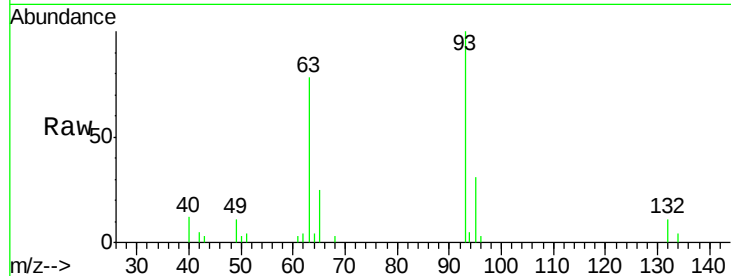




#11  
bis(2-Chloroethyl)ether  
Concen: 10.15 ng  
RT: 7.38 min Scan# 551  
Delta R.T. -0.02 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

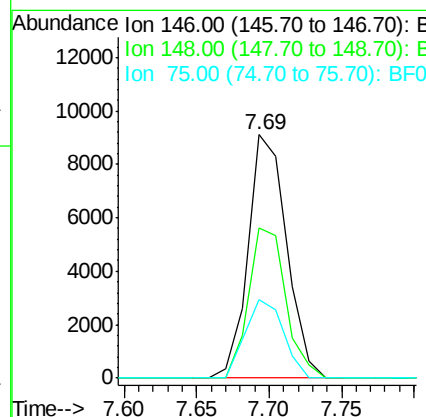
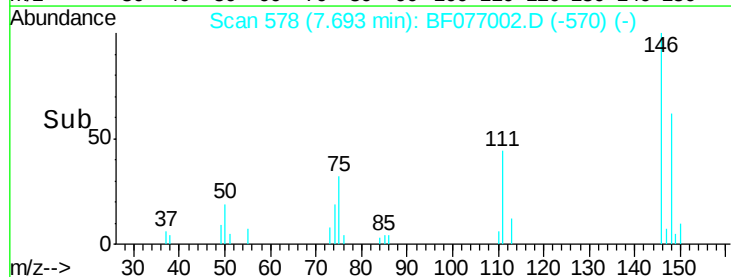
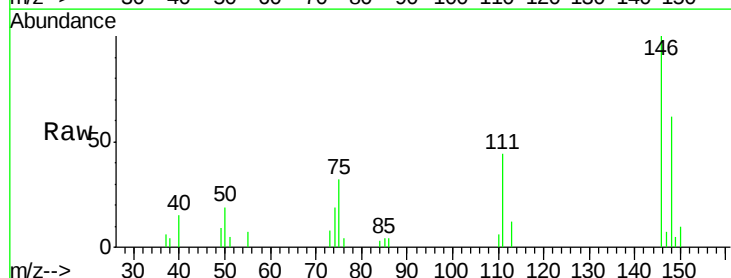
Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

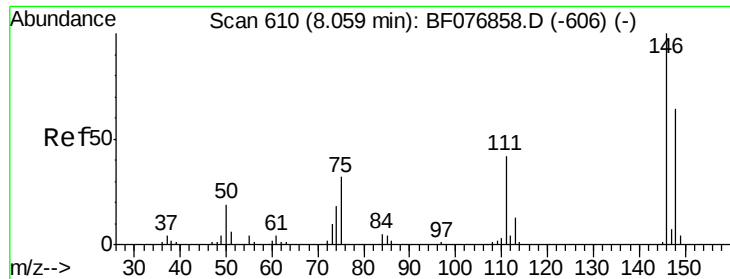
Tot Ion: 93 Resp: 18523  
Ion Ratio Lower Upper  
93 100  
63 78.2 111.3 151.3#  
95 31.2 13.8 53.8



#12  
1,3-Dichlorobenzene  
Concen: 7.35 ng  
RT: 7.69 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion: 146 Resp: 16768  
Ion Ratio Lower Upper  
146 100  
148 61.6 48.1 72.1  
75 32.0 26.8 40.2

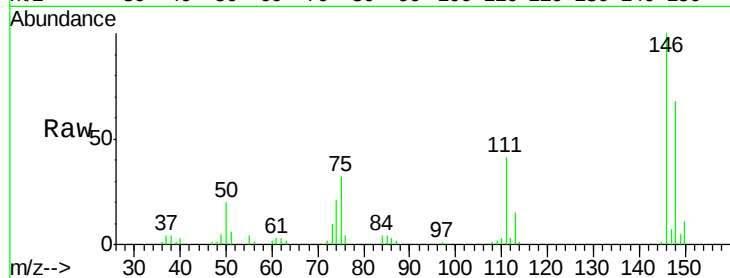




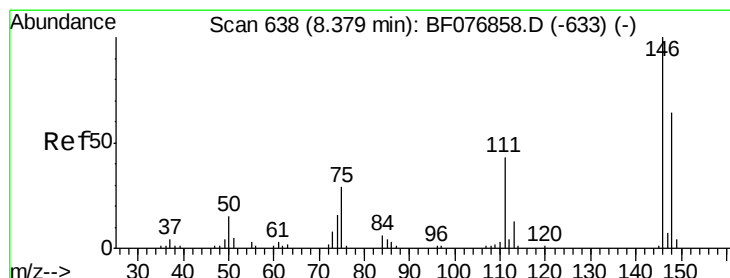
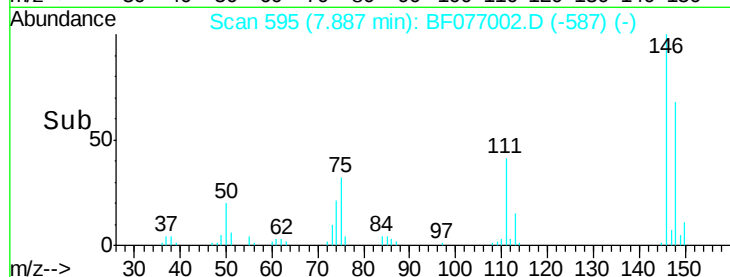
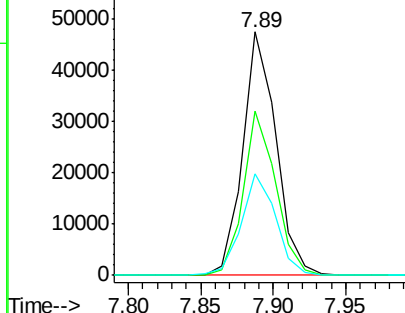
#13  
 1,4-Dichlorobenzene  
 Concen: 31.06 ng  
 RT: 7.89 min Scan# 595  
 Delta R.T. -0.01 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 8036DL

Tot Ion:146 Resp: 75189  
 Ion Ratio Lower Upper  
 146 100  
 148 67.6 51.5 77.3  
 111 41.5 33.9 50.9

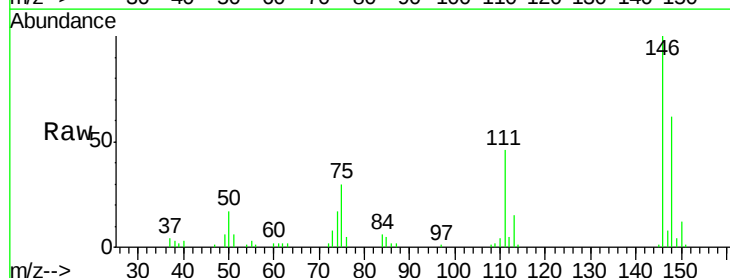


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

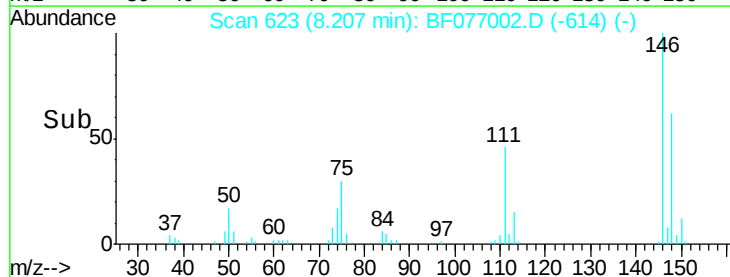
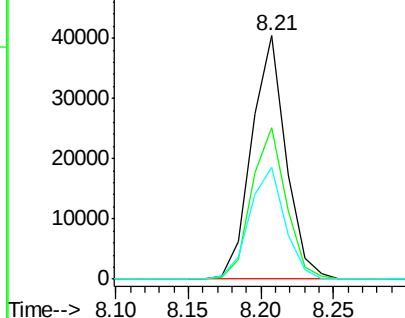


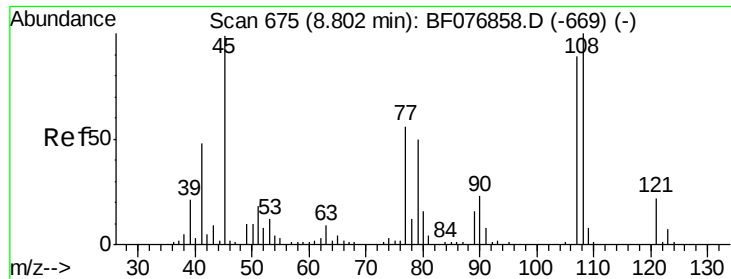
#14  
 1,2-Dichlorobenzene  
 Concen: 29.64 ng  
 RT: 8.21 min Scan# 623  
 Delta R.T. -0.00 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

Tgt Ion:146 Resp: 66110  
 Ion Ratio Lower Upper  
 146 100  
 148 62.2 51.3 76.9  
 111 45.7 34.5 51.7



Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

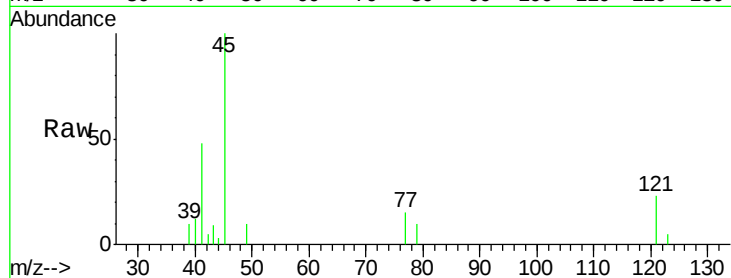




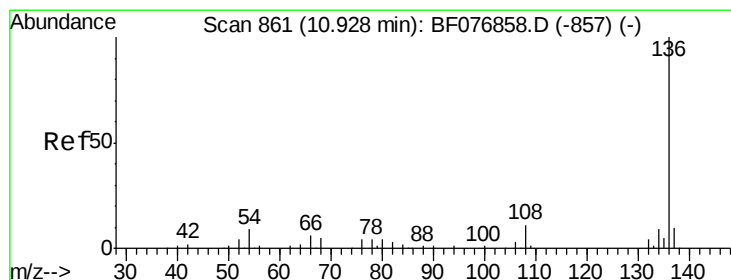
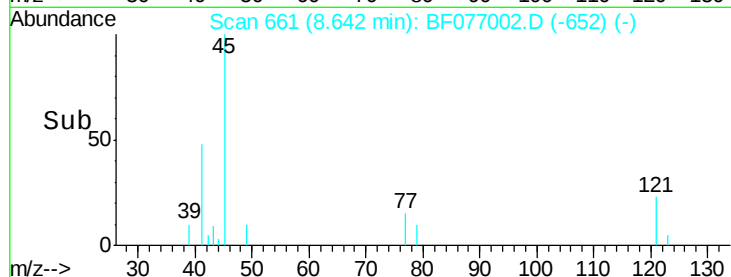
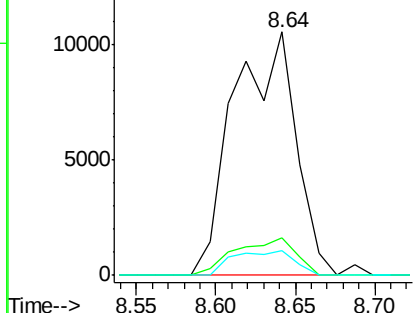
#16  
2,2'-oxvbis(1-Chloropropane)  
Concen: 11.78 ng/ml  
RT: 8.64 min Scan# 661  
Delta R.T. -0.00 min  
Lab File: BF077002.D  
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Instrument :  
BNA\_F  
ClientSampled :  
8036DL

Tot Ion: 45 Resp: 28880  
Ion Ratio Lower Upper  
45 100  
77 15.2 36.1 76.1#  
79 10.4 30.5 70.5#

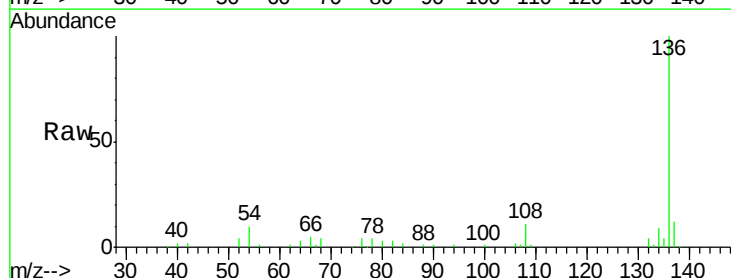


Abundance Ion 45.00 (44.70 to 45.70): BF0  
Ion 77.00 (76.70 to 77.70): BF0  
Ion 79.00 (78.70 to 79.70): BF0

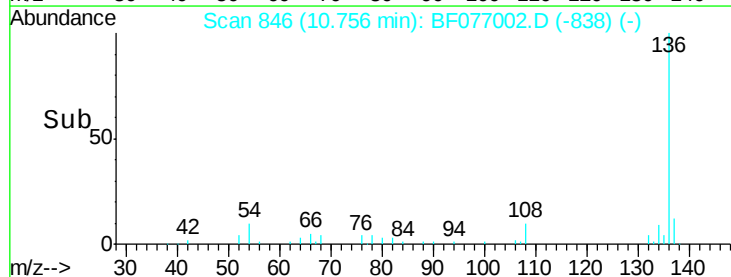
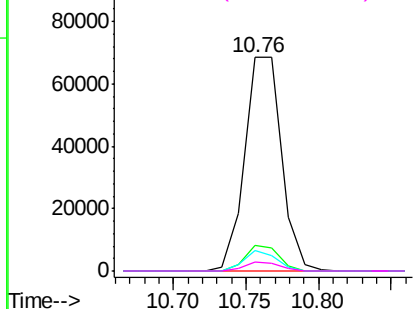


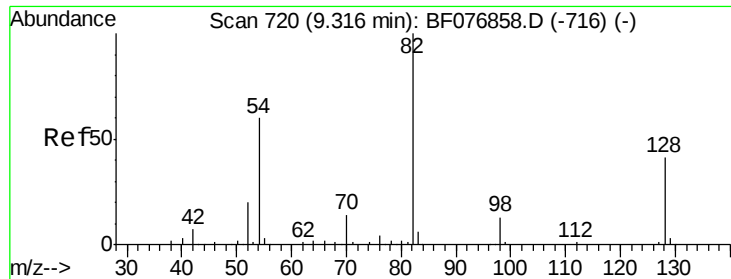
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.76 min Scan# 846  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion: 136 Resp: 121106  
Ion Ratio Lower Upper  
136 100  
137 11.8 8.1 12.1  
54 9.7 7.0 10.4  
68 4.4 3.7 5.5



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

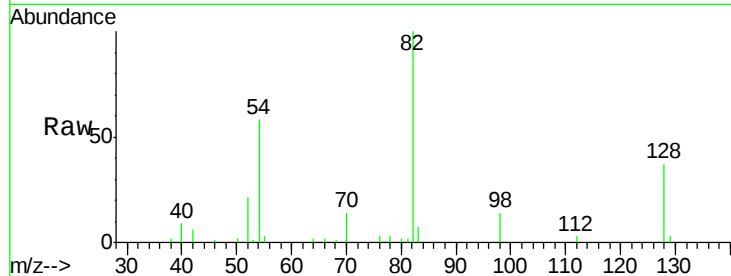




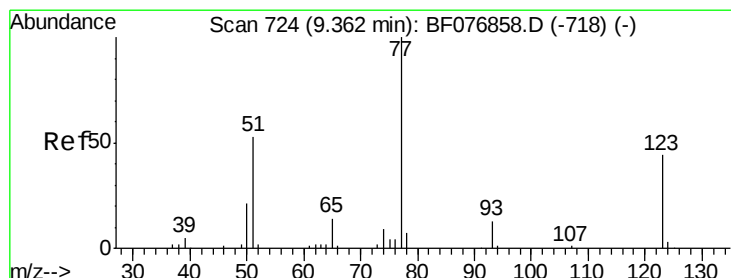
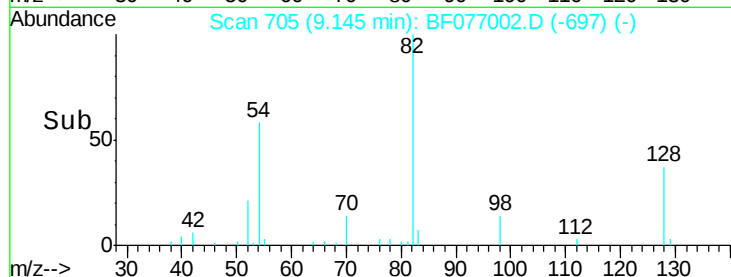
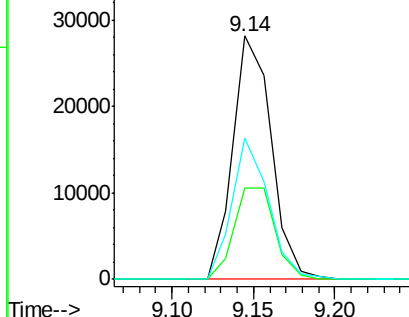
#23  
Nitrobenzene-d5  
Concen: 20.94 ng  
RT: 9.14 min Scan# 705  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Instrument :  
BNA\_F  
ClientSampleID :  
8036DL

Tot Ion: 82 Resp: 45779  
Ion Ratio Lower Upper  
82 100  
128 37.3 33.1 49.7  
54 58.0 48.3 72.5

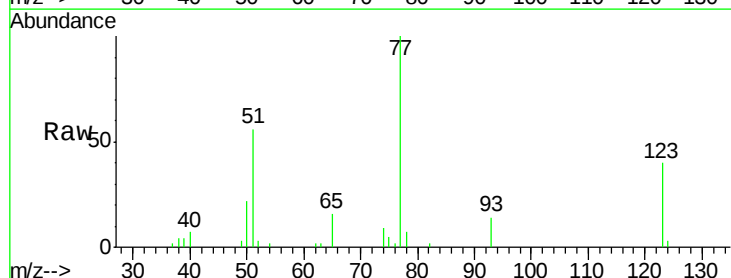


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0

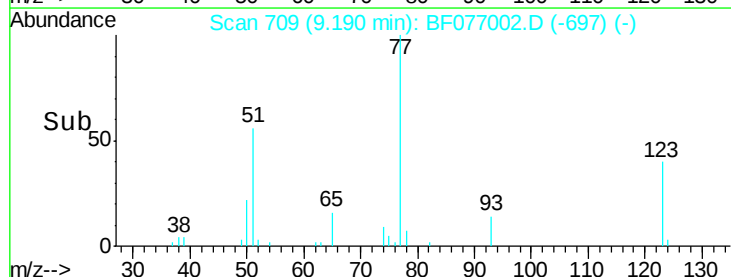
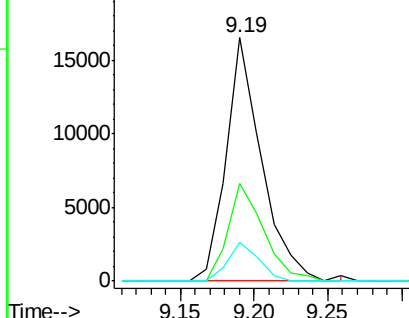


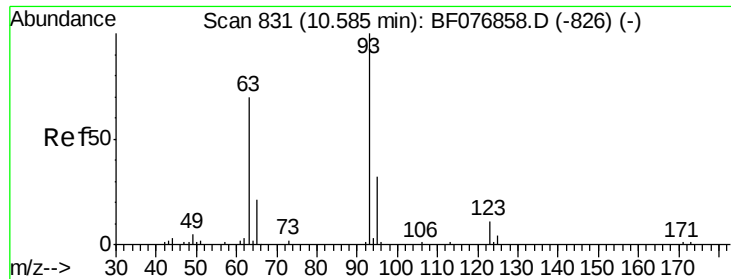
#24  
Nitrobenzene  
Concen: 12.55 ng m  
RT: 9.19 min Scan# 709  
Delta R.T. 0.03 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion: 77 Resp: 27945  
Ion Ratio Lower Upper  
77 100  
123 40.3 35.2 52.8  
65 15.9 11.4 17.2



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

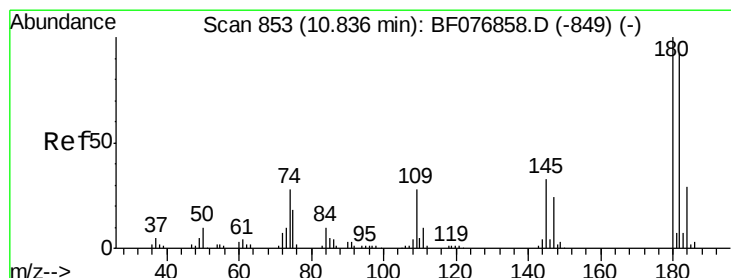
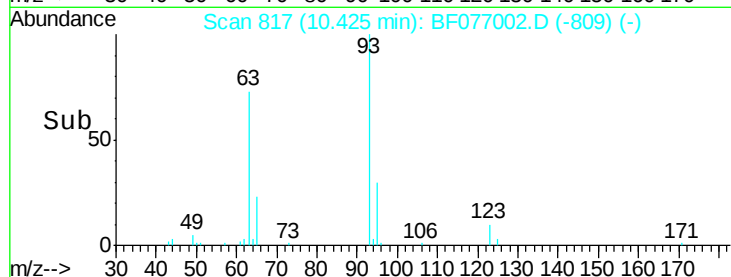
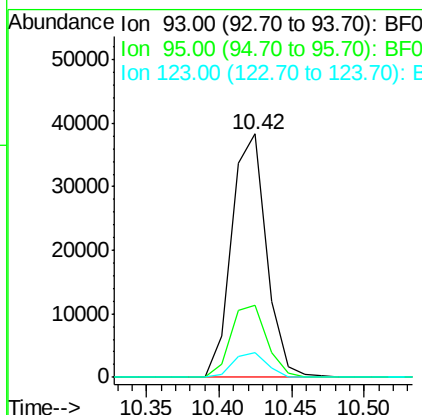
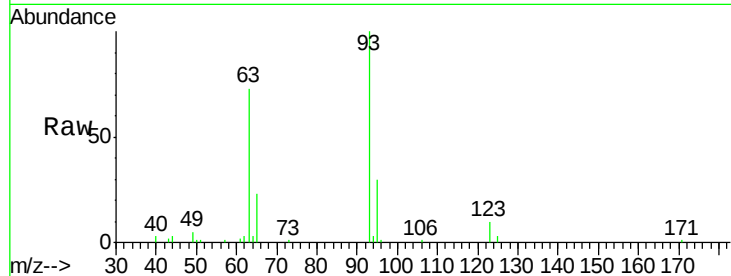




#28  
bis(2-Chloroethoxy)methane  
Concen: 28.15 ng  
RT: 10.42 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

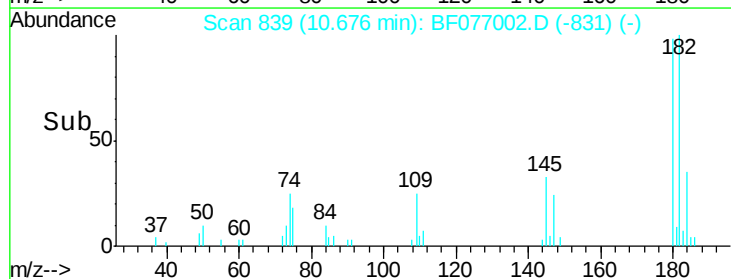
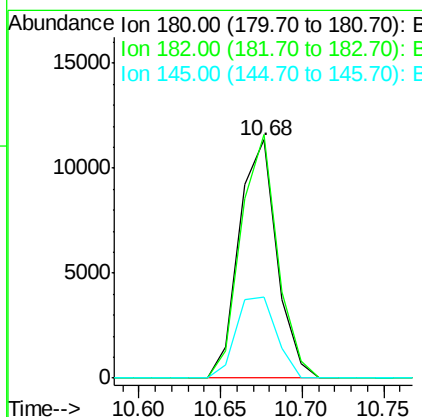
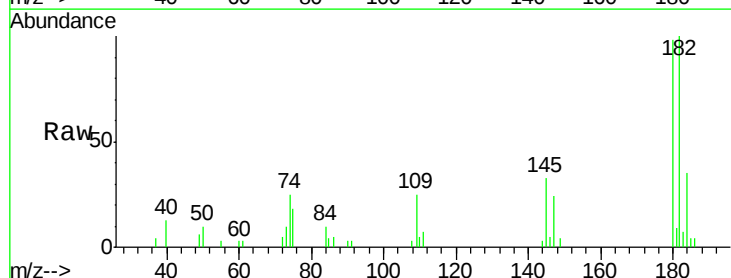
Instrument :  
BNA\_F  
ClientSampleID :  
8036DL

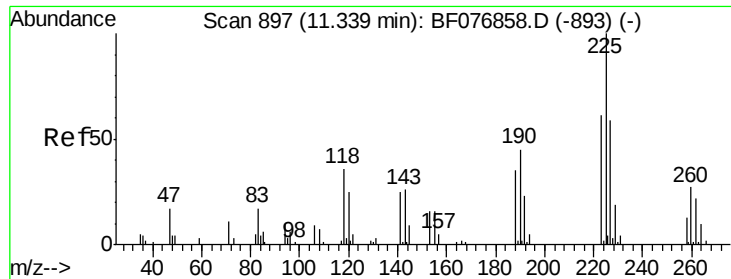
Tot Ion: 93 Resp: 63706  
Ion Ratio Lower Upper  
93 100  
95 29.6 25.6 38.4  
123 10.0 8.9 13.3



#30  
1,2,4-Trichlorobenzene  
Concen: 10.18 ng  
RT: 10.68 min Scan# 839  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion: 180 Resp: 18155  
Ion Ratio Lower Upper  
180 100  
182 102.3 73.6 110.4  
145 34.0 26.6 39.8





#34

Hexachlorobutadiene

Concen: 24.85 ng

RT: 11.18 min Scan# 883

Delta R.T. -0.00 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

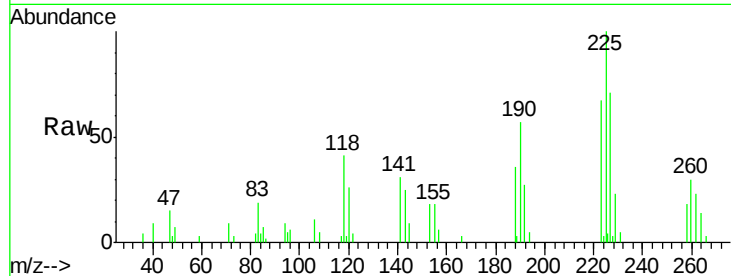
Tot Ion:225 Resp: 26283

Ion Ratio Lower Upper

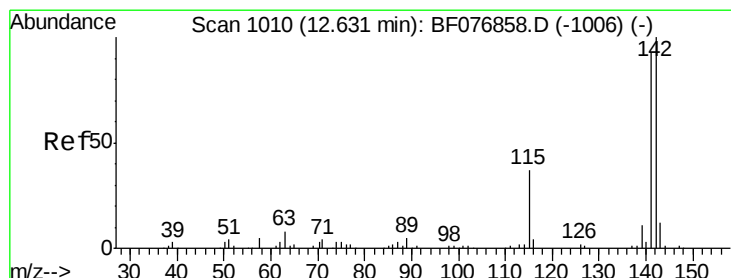
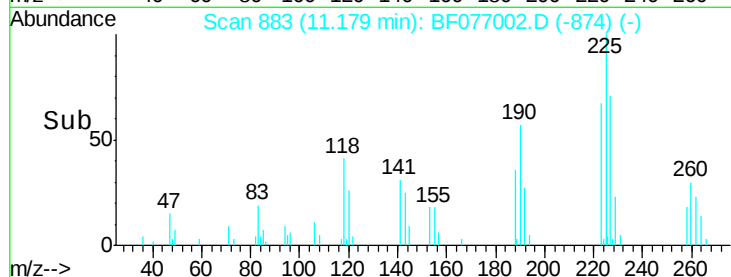
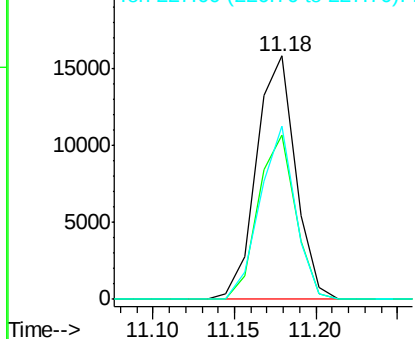
225 100

223 67.2 49.1 73.7

227 71.3 47.5 71.3#



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E



#37

2-Methylnaphthalene

Concen: 13.13 ng

RT: 12.47 min Scan# 996

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

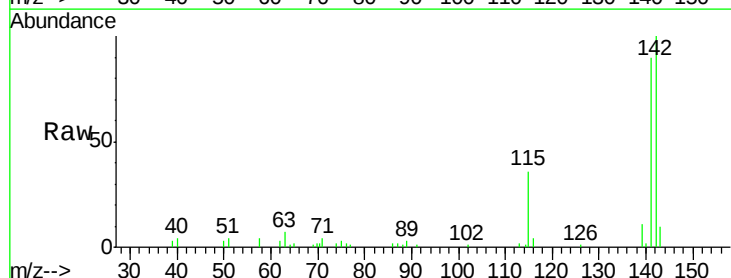
Tgt Ion:142 Resp: 55925

Ion Ratio Lower Upper

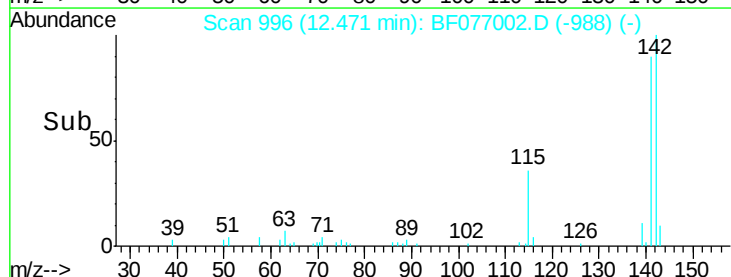
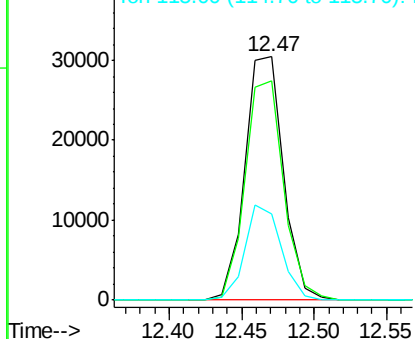
142 100

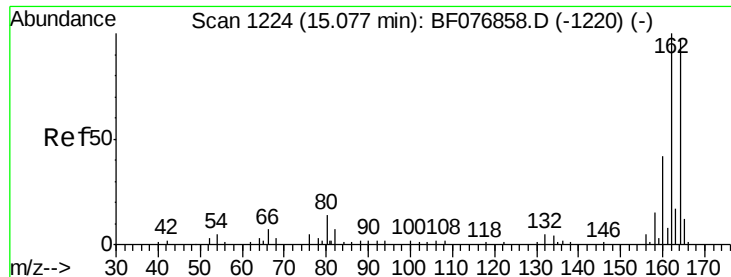
141 89.9 74.5 111.7

115 35.6 29.7 44.5



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: 14.88 min Scan# 1207

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleID :

8036DL

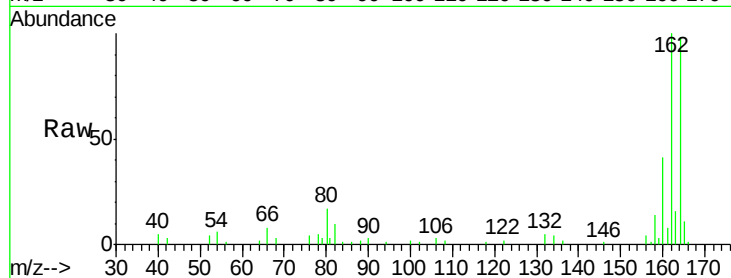
Tot Ion:164 Resp: 63435

Ion Ratio Lower Upper

164 100

162 102.0 82.4 123.6

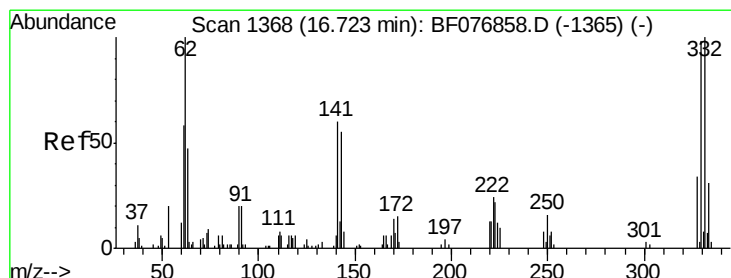
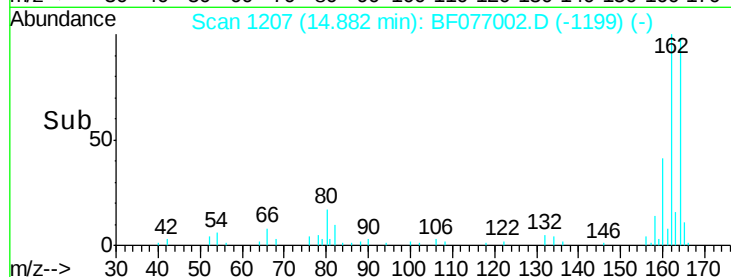
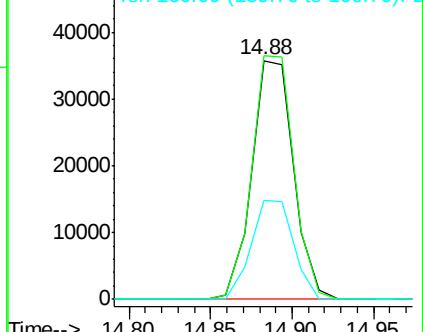
160 41.7 34.8 52.2



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: 31.44 ng

RT: 16.59 min Scan# 1356

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

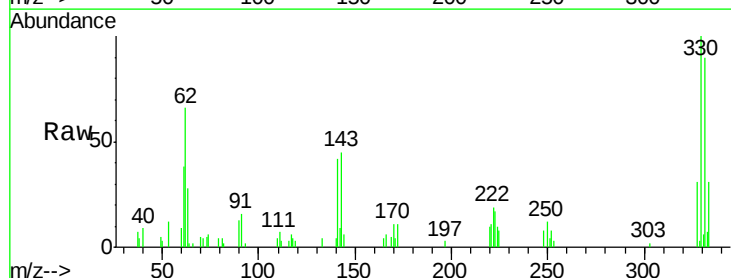
Tgt Ion:330 Resp: 16190

Ion Ratio Lower Upper

330 100

332 95.4 77.8 116.6

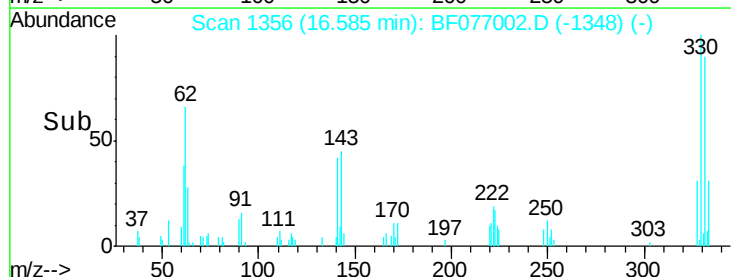
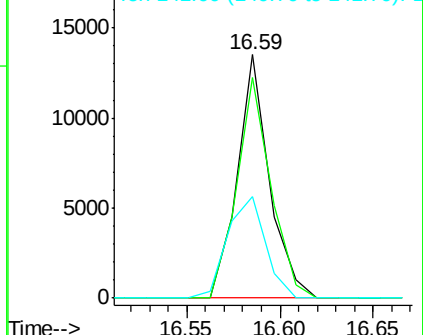
141 49.2 38.5 57.7

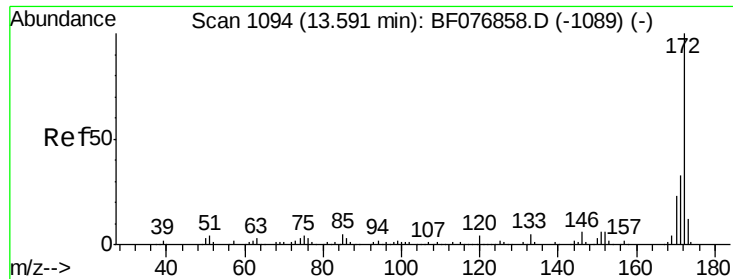


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

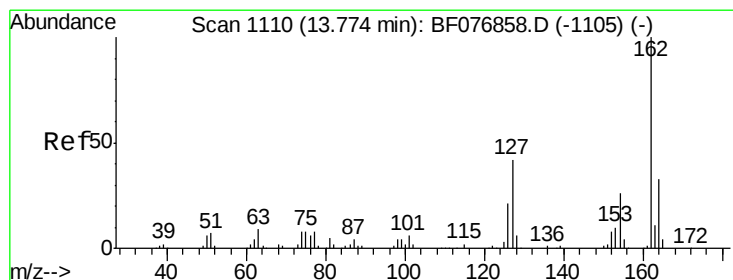
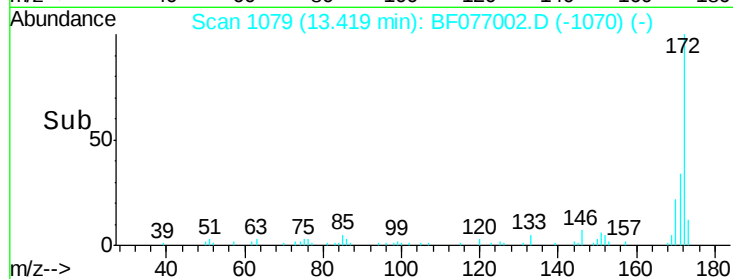
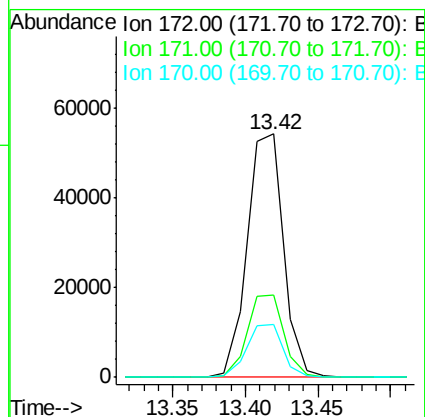
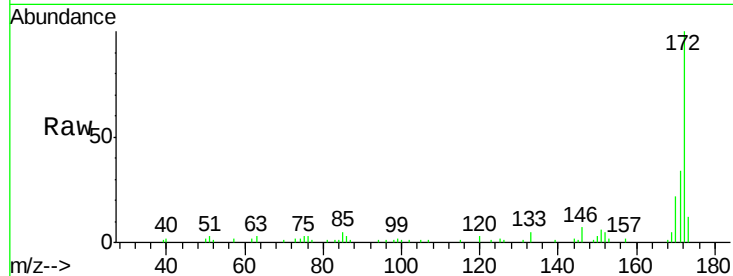




#44  
 2-Fluorobiphenyl  
 Concen: 22.58 ng  
 RT: 13.42 min Scan# 1079  
 Delta R.T. -0.00 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

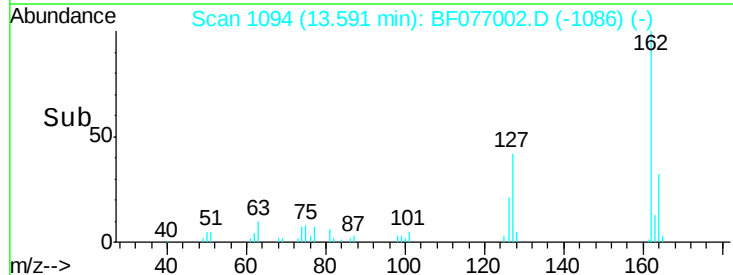
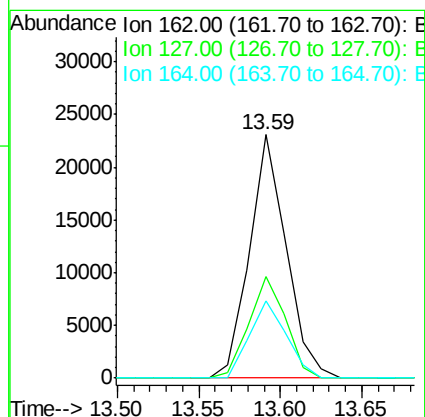
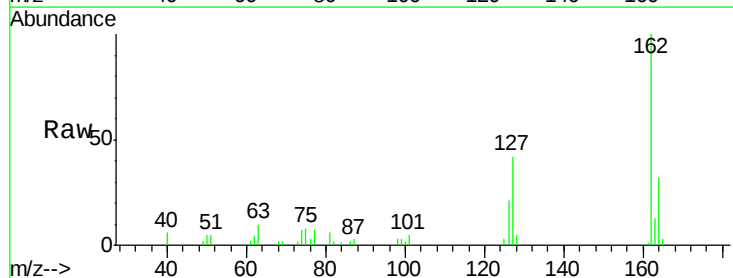
Instrument :  
 BNA\_F  
 ClientSampleId :  
 8036DL

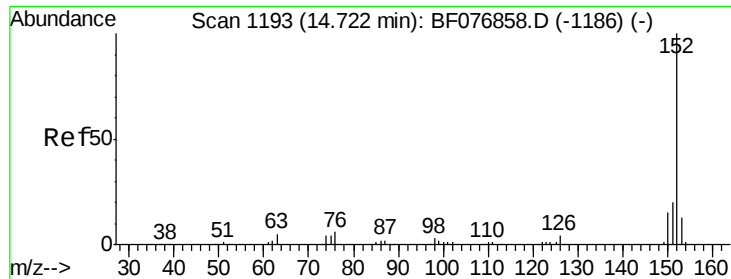
Tot Ion:172 Resp: 94131  
 Ion Ratio Lower Upper  
 172 100  
 171 33.9 26.6 40.0  
 170 21.8 18.0 27.0



#46  
 2-Chloronaphthalene  
 Concen: 9.34 ng  
 RT: 13.59 min Scan# 1094  
 Delta R.T. -0.01 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

Tgt Ion:162 Resp: 36152  
 Ion Ratio Lower Upper  
 162 100  
 127 41.8 33.8 50.6  
 164 31.8 26.8 40.2





#48

Acenaphthylene

Concen: 12.10 ng

RT: 14.54 min Scan# 1177

Delta R.T. -0.02 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

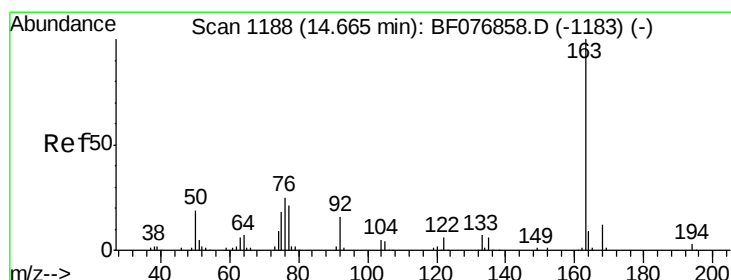
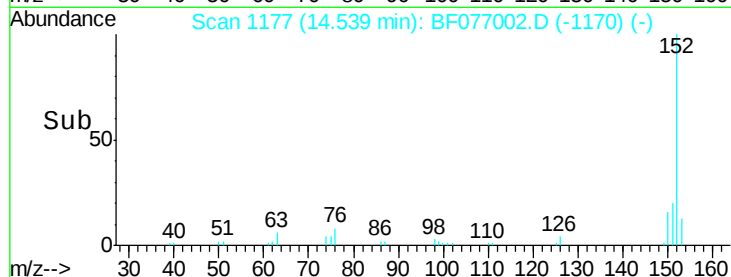
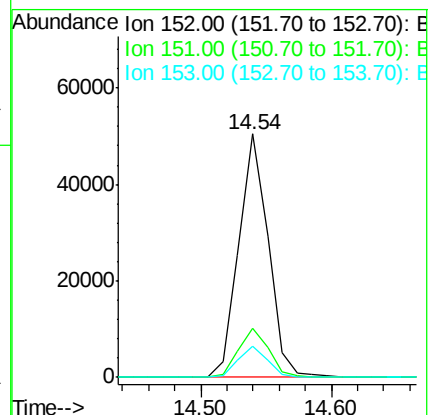
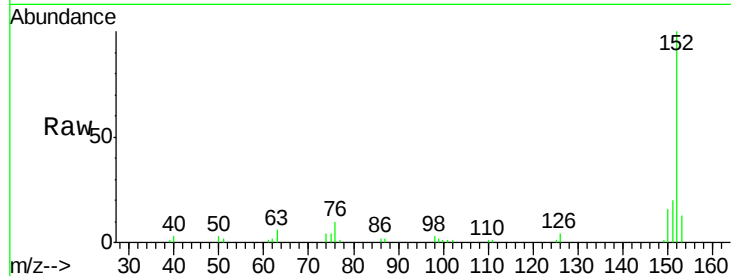
Tot Ion:152 Resp: 78998

Ion Ratio Lower Upper

152 100

151 20.0 15.9 23.9

153 12.6 10.2 15.4



#49

Dimethylphthalate

Concen: 17.80 ng

RT: 14.48 min Scan# 1172

Delta R.T. -0.03 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

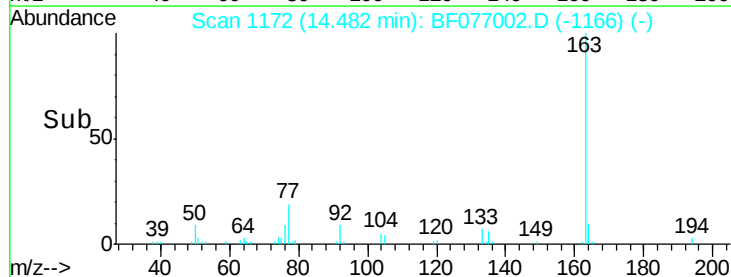
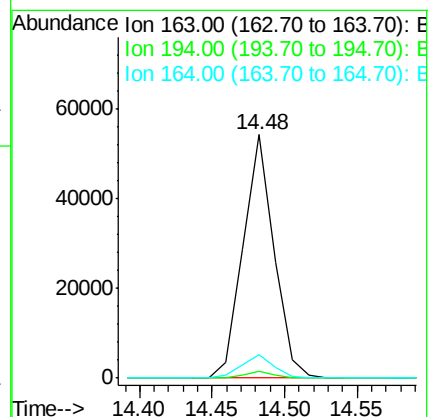
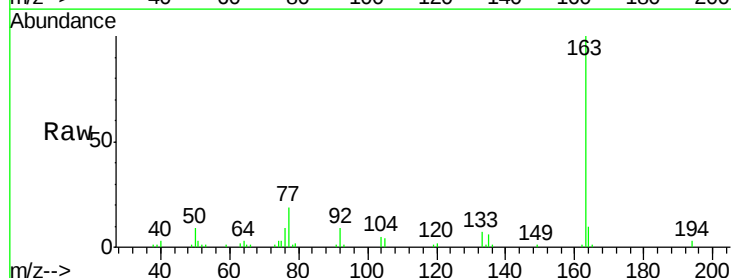
Tgt Ion:163 Resp: 80084

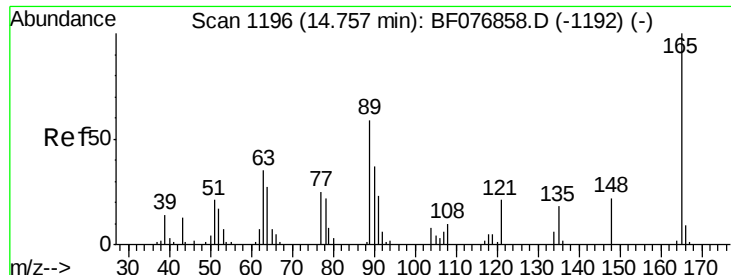
Ion Ratio Lower Upper

163 100

194 3.0 2.6 4.0

164 9.8 7.5 11.3

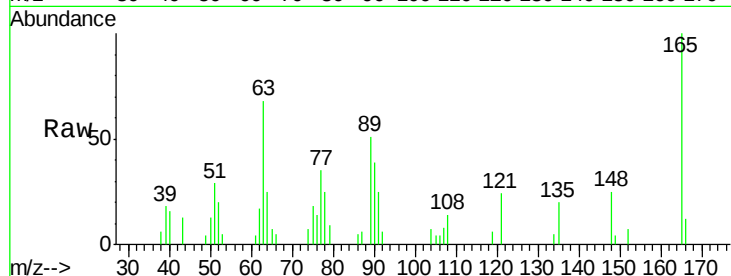




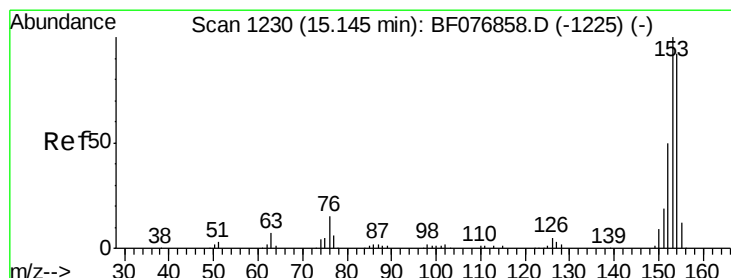
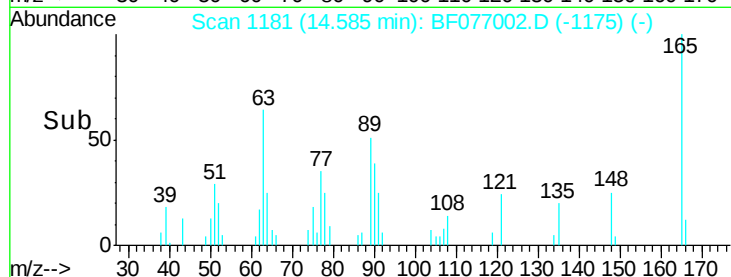
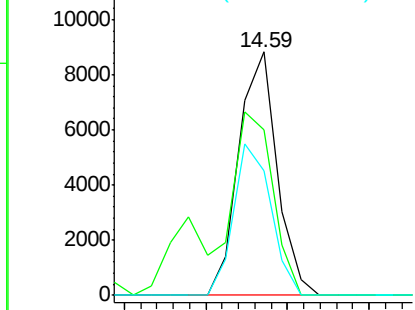
#50  
2,6-Dinitrotoluene  
Concen: 15.96 ng  
RT: 14.59 min Scan# 1181  
Delta R.T. -0.03 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Instrument :  
BNA\_F  
ClientSampled :  
8036DL

Tot Ion:165 Resp: 14349  
Ion Ratio Lower Upper  
165 100  
63 67.9 48.1 72.1  
89 51.3 47.2 70.8

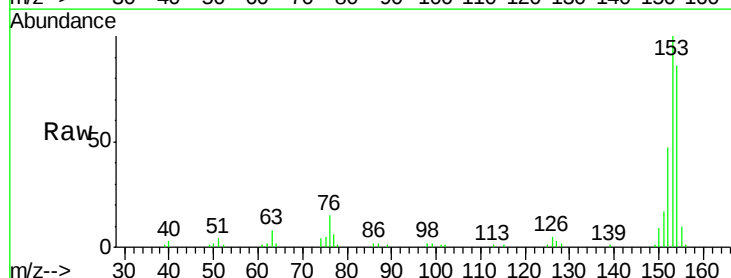


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

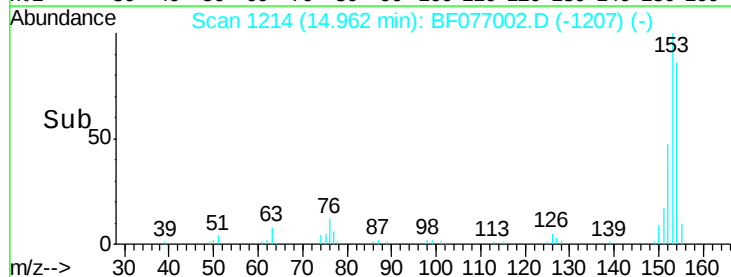
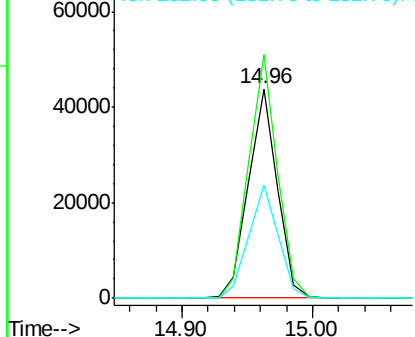


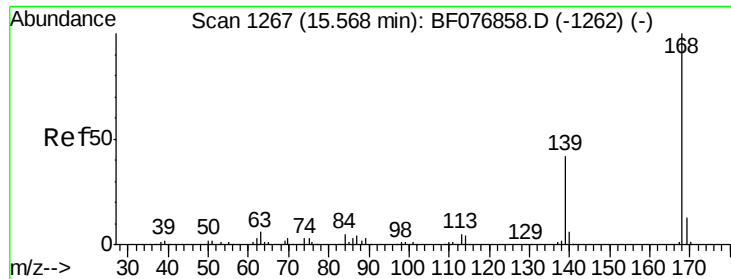
#51  
Acenaphthene  
Concen: 18.29 ng  
RT: 14.96 min Scan# 1214  
Delta R.T. -0.02 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion:154 Resp: 67734  
Ion Ratio Lower Upper  
154 100  
153 116.4 87.0 130.6  
152 54.1 43.5 65.3



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

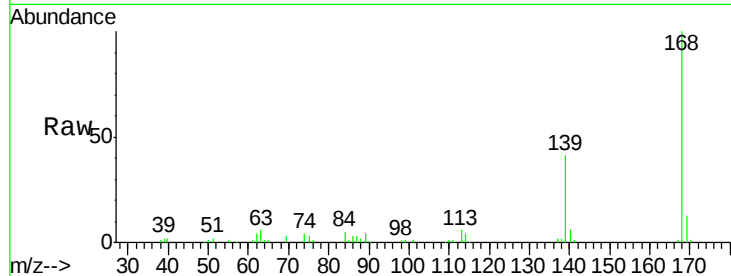




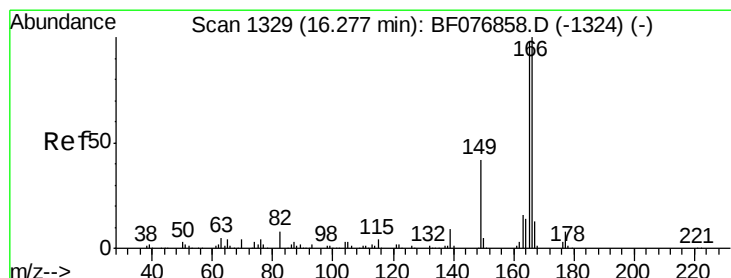
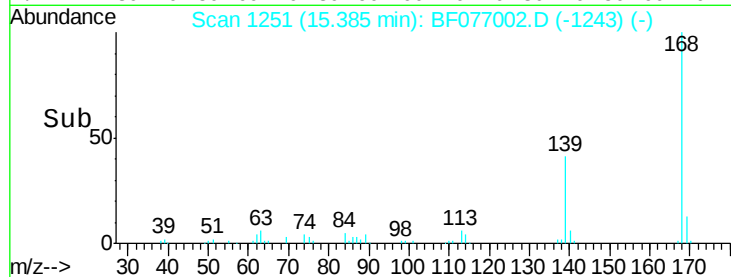
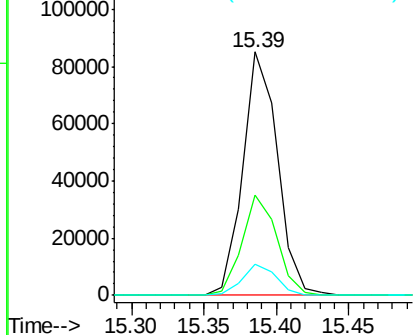
#54  
Dibenzenofuran  
Concen: 26.17 ng  
RT: 15.39 min Scan# 1251  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

Tot Ion:168 Resp: 141179  
Ion Ratio Lower Upper  
168 100  
139 41.4 33.4 50.2  
169 12.5 10.6 15.8

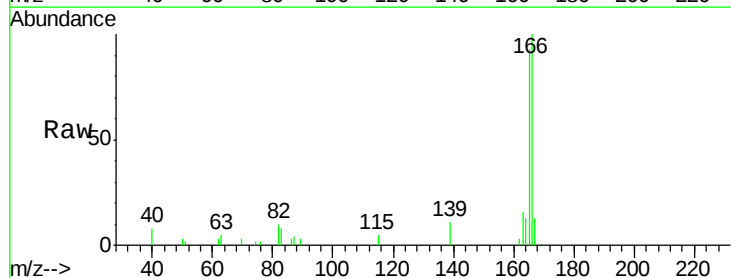


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

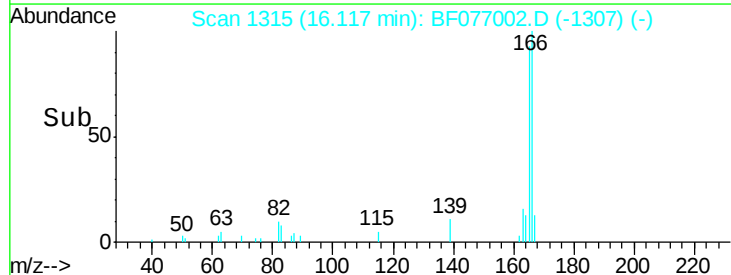
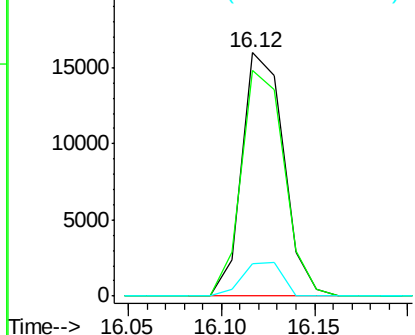


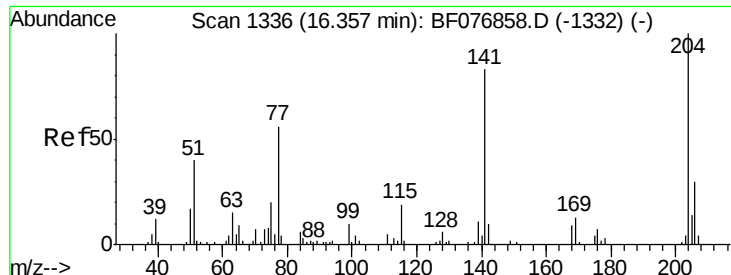
#57  
Fluorene  
Concen: 5.43 ng  
RT: 16.12 min Scan# 1315  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion:166 Resp: 24808  
Ion Ratio Lower Upper  
166 100  
165 92.6 78.5 117.7  
167 13.4 10.4 15.6



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

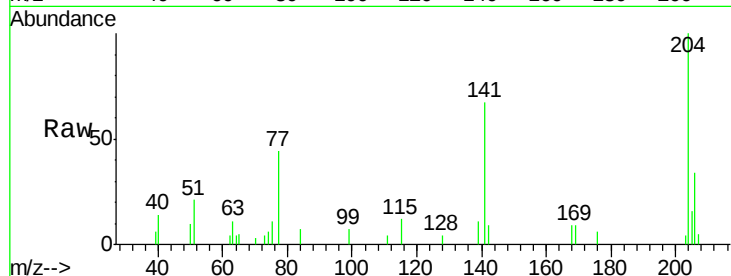




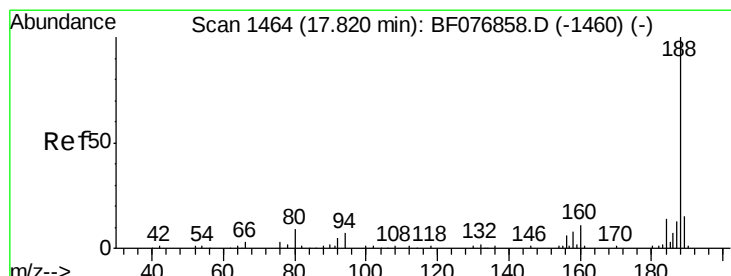
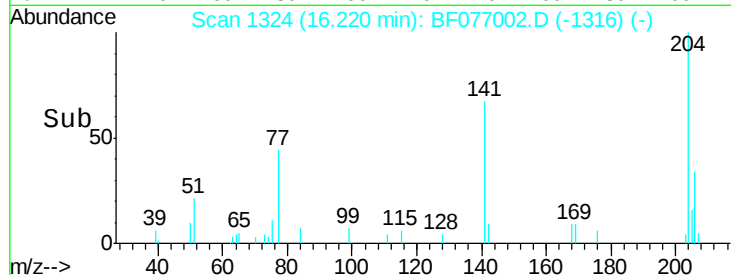
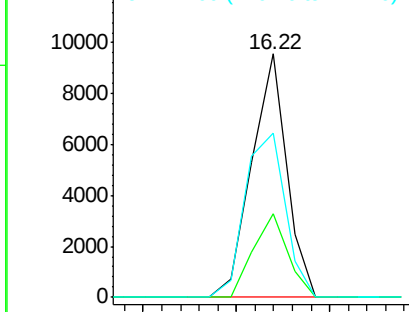
#60  
 4-Chlorophenyl-phenylether  
 Concen: 6.61 ng  
 RT: 16.22 min Scan# 1324  
 Delta R.T. -0.01 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

Instrument :  
 BNA\_F  
 ClientSampleID :  
 8036DL

Tot Ion:204 Resp: 12367  
 Ion Ratio Lower Upper  
 204 100  
 206 34.3 24.2 36.2  
 141 67.3 66.7 100.1

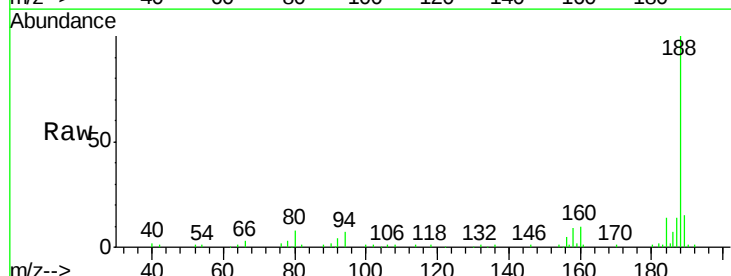


Abundance Ion 204.00 (203.70 to 204.70): E  
 Ion 206.00 (205.70 to 206.70): E  
 Ion 141.00 (140.70 to 141.70): E

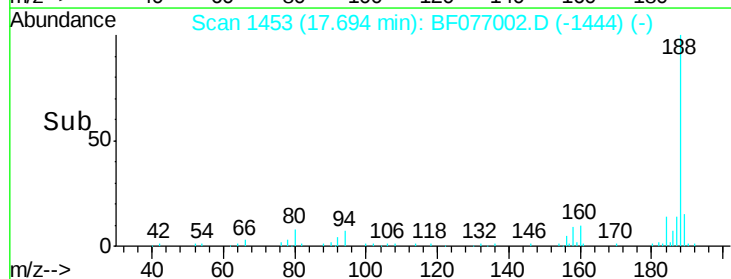
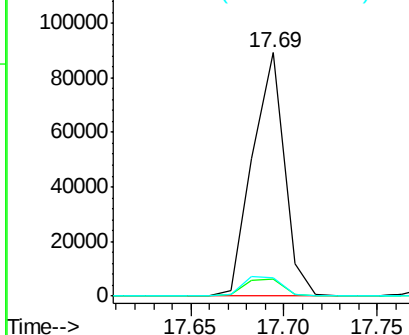


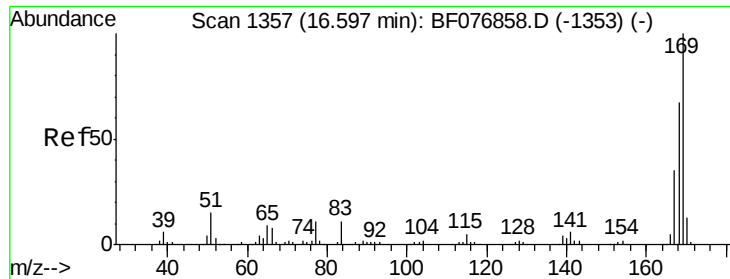
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.69 min Scan# 1453  
 Delta R.T. -0.00 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

Tgt Ion:188 Resp: 105896  
 Ion Ratio Lower Upper  
 188 100  
 94 6.8 6.0 9.0  
 80 7.7 6.9 10.3



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

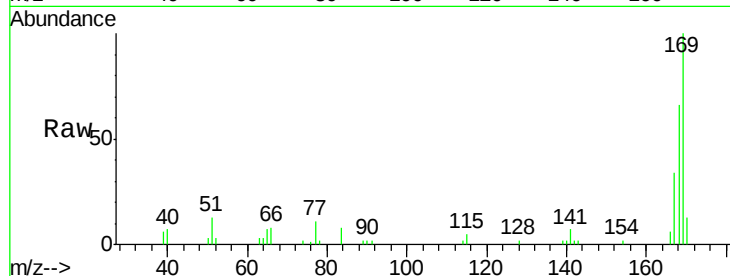




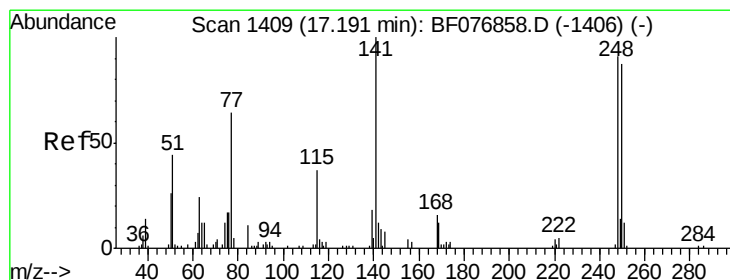
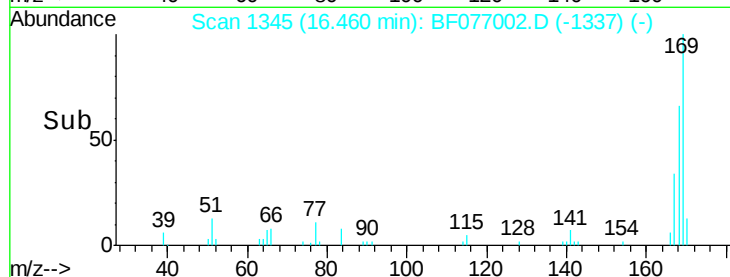
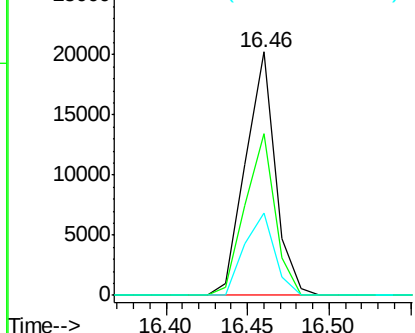
#65  
 n-Nitrosodiphenylamine  
 Concen: 6.81 ng  
 RT: 16.46 min Scan# 1345  
 Delta R.T. -0.01 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 8036DL

Tot Ion:169 Resp: 25705  
 Ion Ratio Lower Upper  
 169 100  
 168 66.5 53.8 80.6  
 167 34.0 27.8 41.6

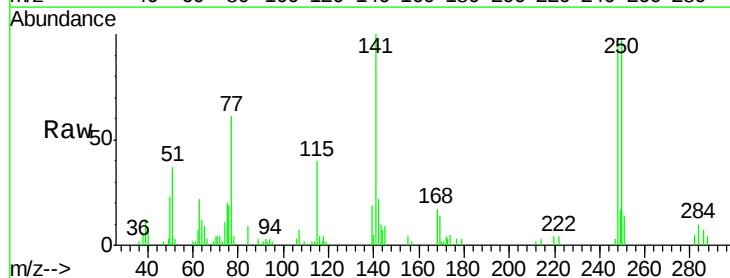


Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E

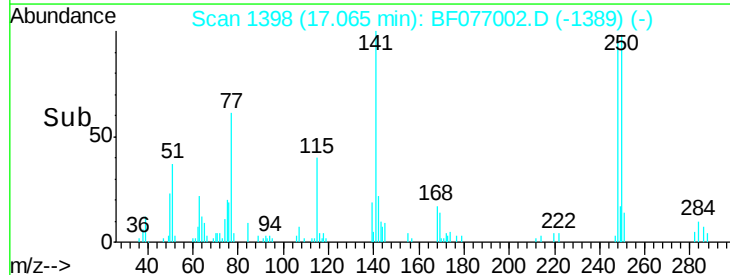
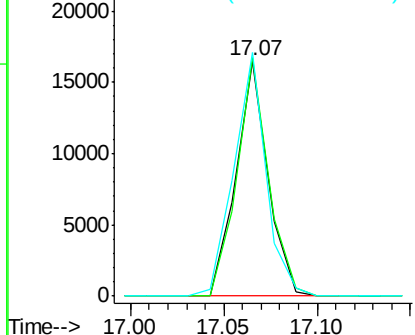


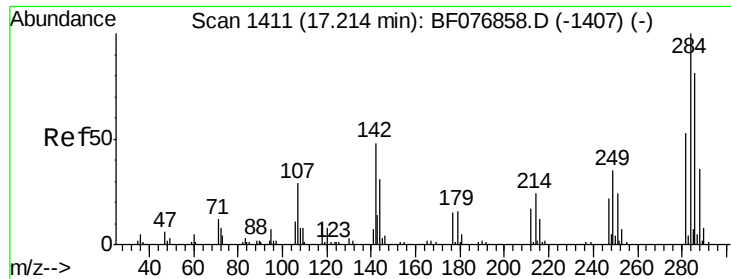
#66  
 4-Bromophenyl-phenylether  
 Concen: 18.27 ng  
 RT: 17.07 min Scan# 1398  
 Delta R.T. -0.00 min  
 Lab File: BF077002.D  
 Acq: 21 Jan 2015 18:41

Tgt Ion:248 Resp: 19603  
 Ion Ratio Lower Upper  
 248 100  
 250 101.7 77.1 115.7  
 141 103.7 88.2 132.4



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

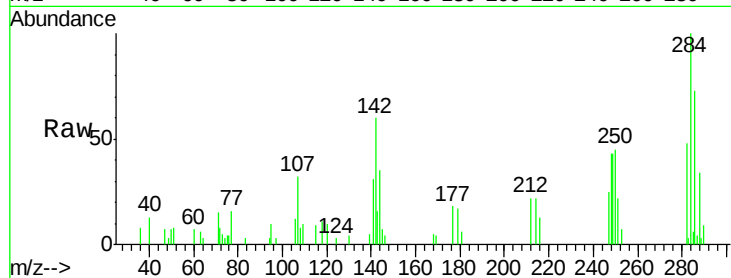




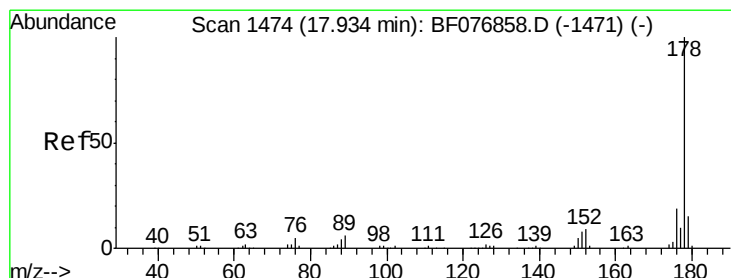
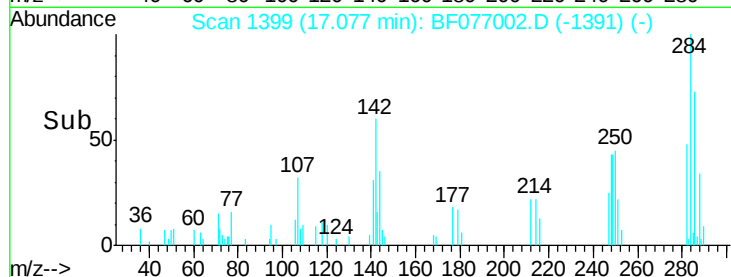
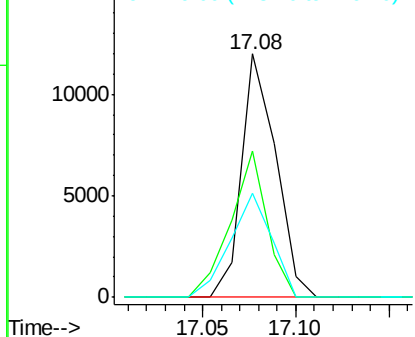
#67  
Hexachlorobenzene  
Concen: 13.52 ng  
RT: 17.08 min Scan# 1399  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

Tot Ion:284 Resp: 15291  
Ion Ratio Lower Upper  
284 100  
142 60.2 38.2 57.4#  
249 42.7 28.2 42.2#

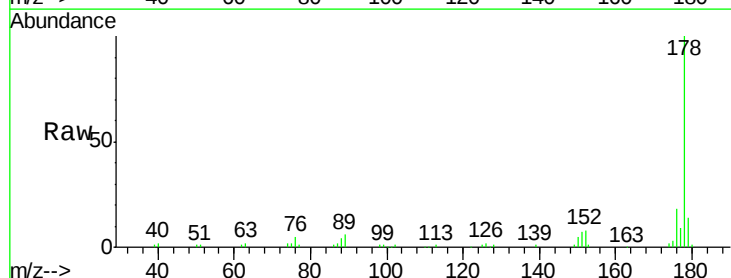


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

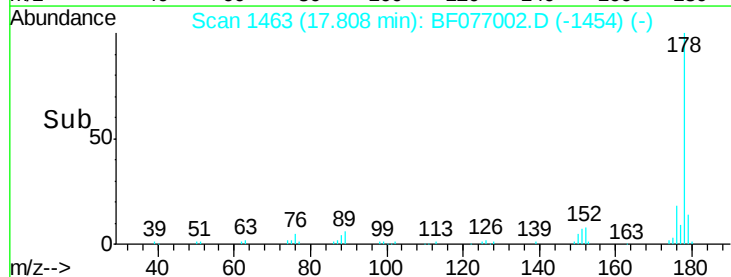
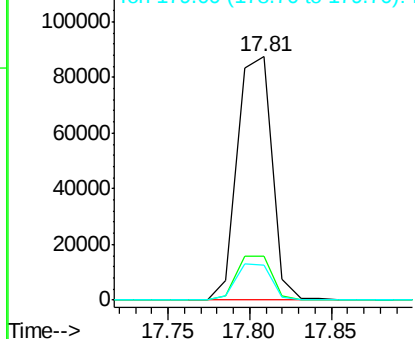


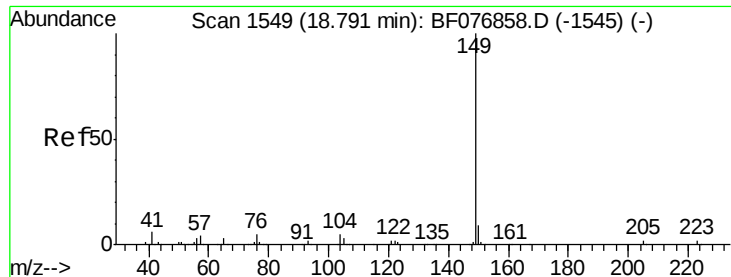
#71  
Anthracene  
Concen: 19.86 ng  
RT: 17.81 min Scan# 1463  
Delta R.T. -0.00 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion:178 Resp: 127864  
Ion Ratio Lower Upper  
178 100  
176 17.8 15.4 23.0  
179 14.4 11.9 17.9



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





#73

Di-n-butylphthalate

Concen: 15.90 ng

RT: 18.68 min Scan# 1539

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

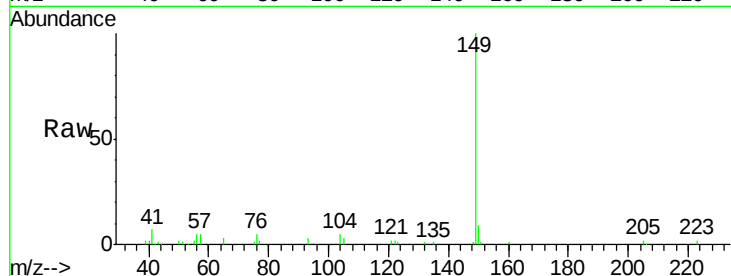
Tot Ion:149 Resp: 114945

Ion Ratio Lower Upper

149 100

150 8.9 6.9 10.3

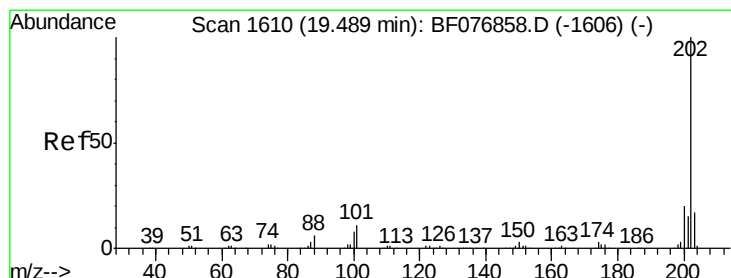
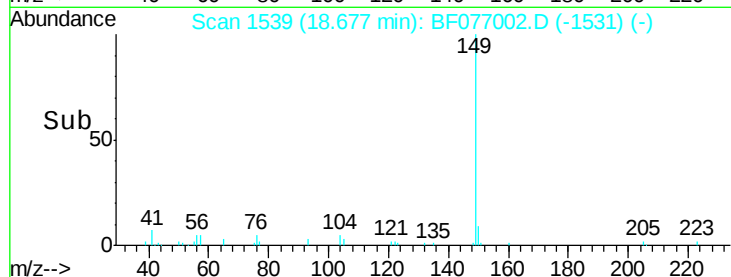
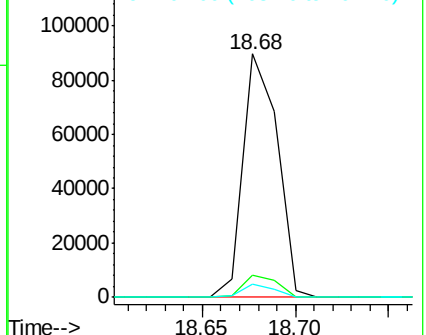
104 5.2 3.7 5.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 7.18 ng

RT: 19.37 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

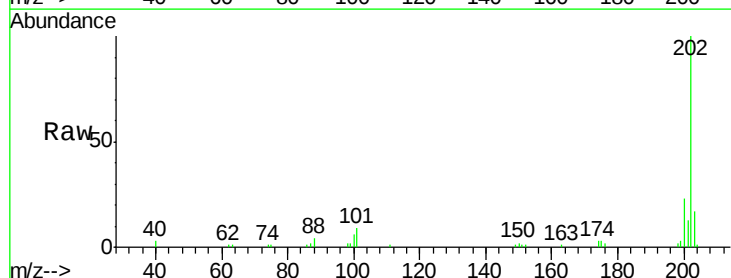
Tgt Ion:202 Resp: 48607

Ion Ratio Lower Upper

202 100

101 9.1 0.0 30.7

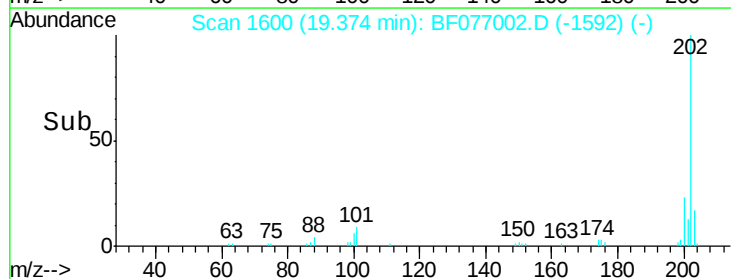
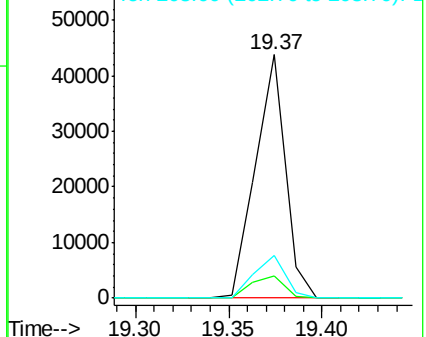
203 17.4 0.0 36.9

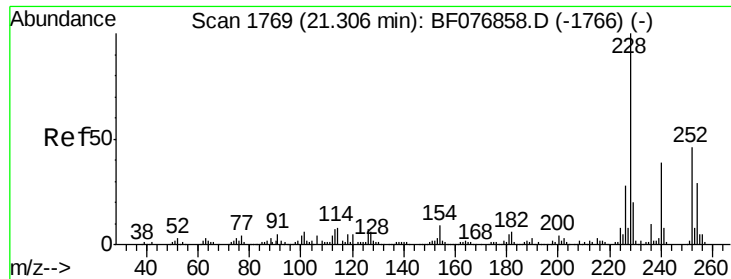


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.19 min Scan# 1759

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

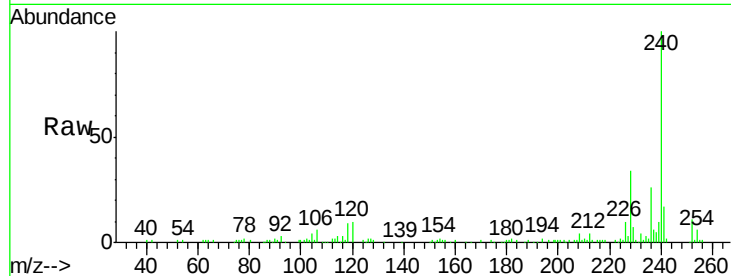
Tot Ion:240 Resp: 103016

Ion Ratio Lower Upper

240 100

120 9.9 10.4 15.6#

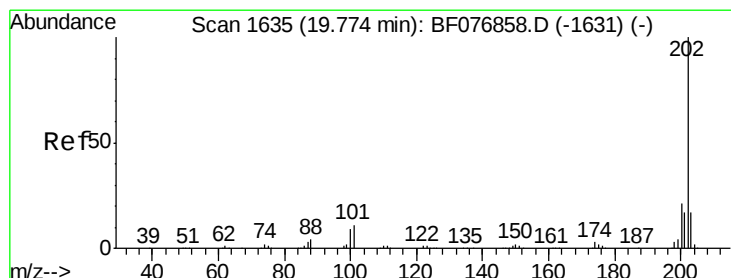
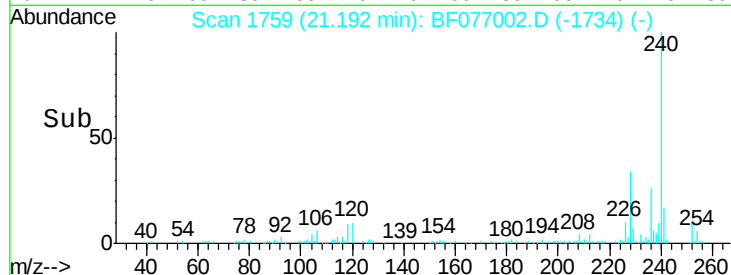
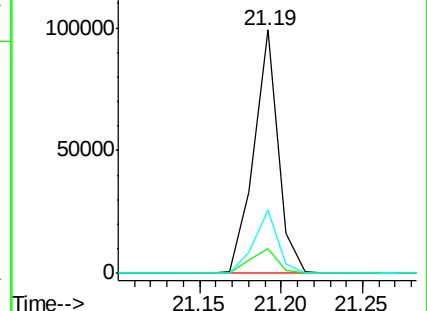
236 25.7 20.2 30.2



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: 19.18 ng

RT: 19.65 min Scan# 1624

Delta R.T. -0.02 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

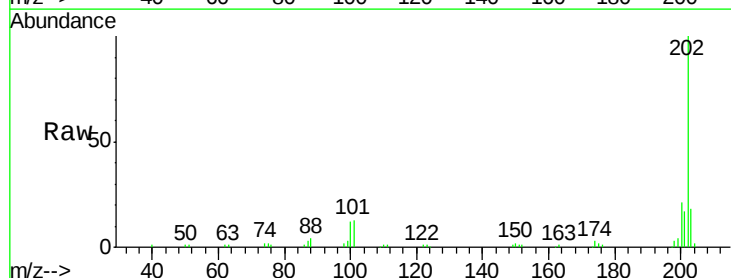
Tgt Ion:202 Resp: 135405

Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

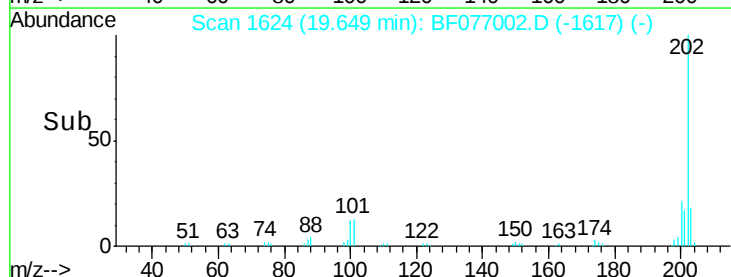
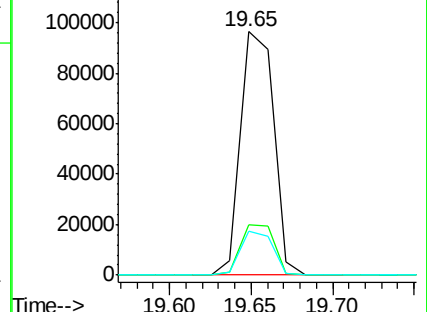
203 17.9 14.0 21.0

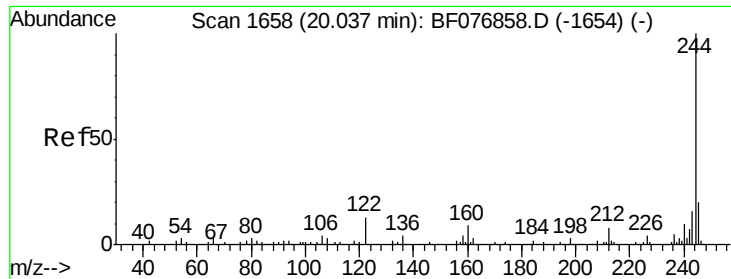


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 22.51 ng

RT: 19.92 min Scan# 1648

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

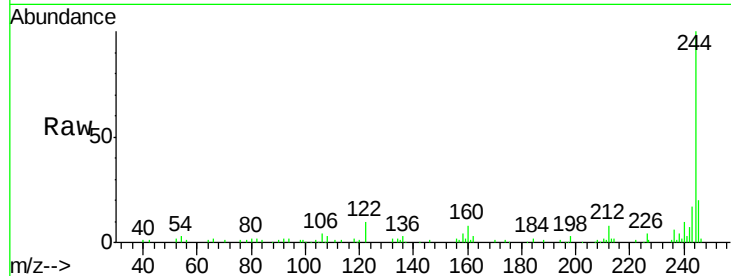
Tot Ion:244 Resp: 100732

Ion Ratio Lower Upper

244 100

212 7.8 6.3 9.5

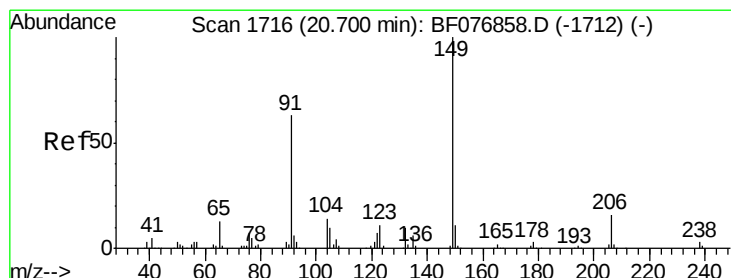
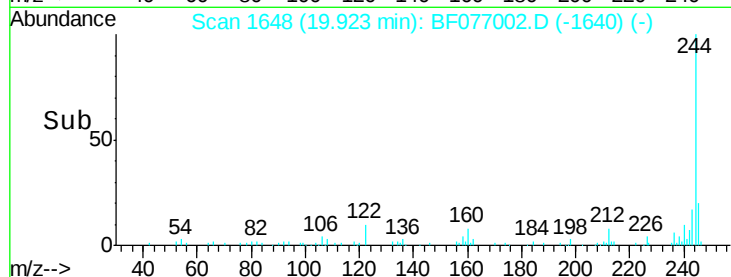
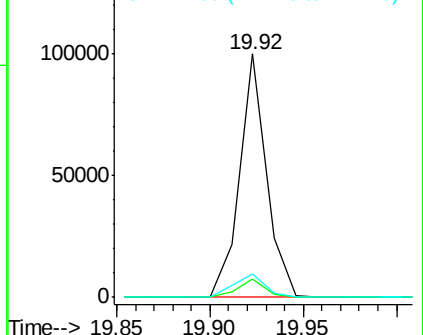
122 9.6 10.1 15.1#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#79

Butylbenzylphthalate

Concen: 28.54 ng

RT: 20.59 min Scan# 1706

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

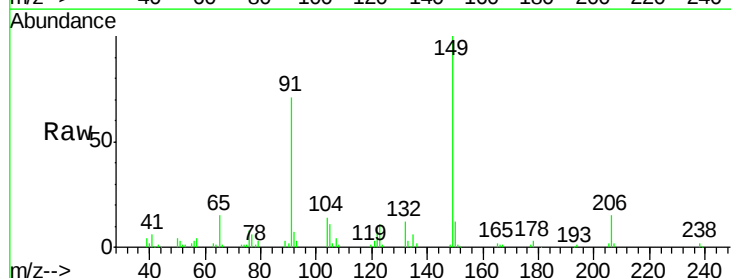
Tgt Ion:149 Resp: 91251

Ion Ratio Lower Upper

149 100

91 71.4 50.6 76.0

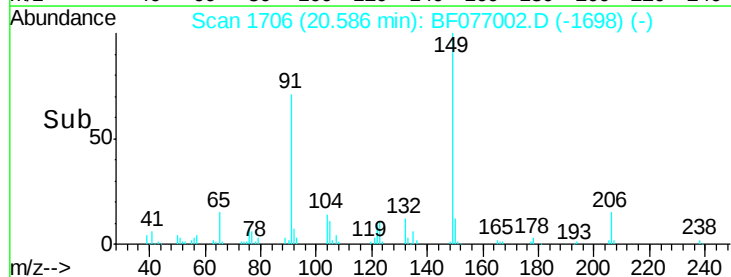
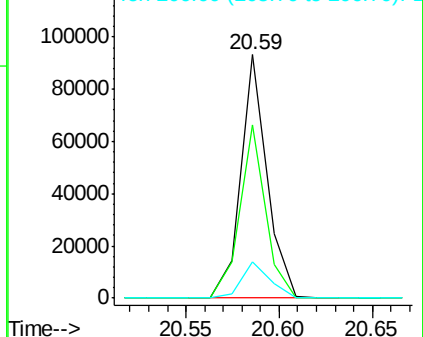
206 14.9 12.8 19.2

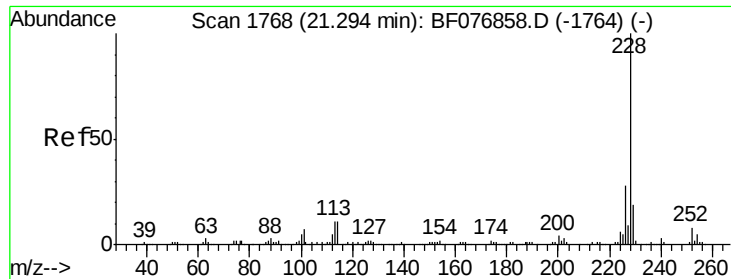


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E

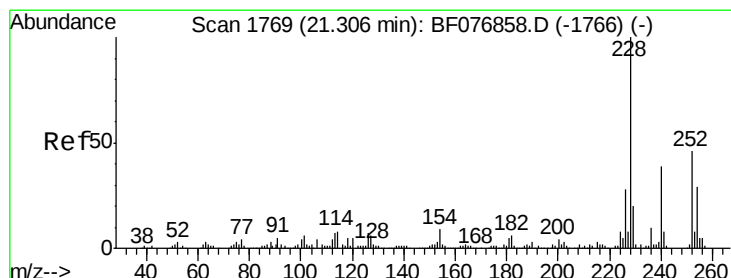
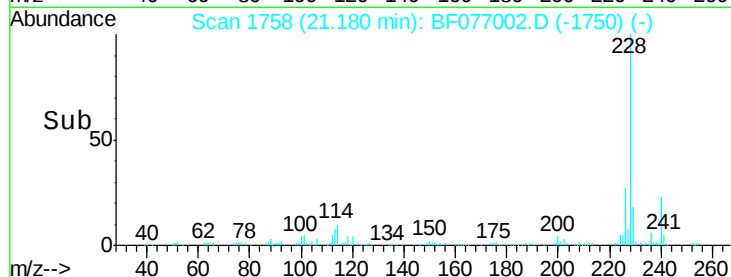
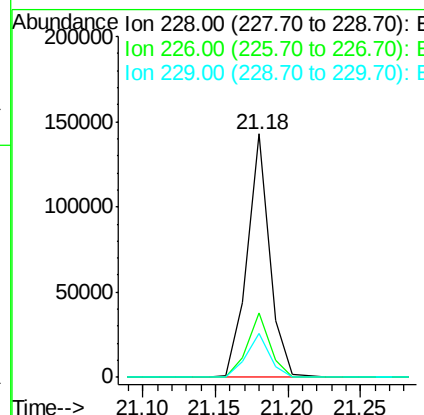
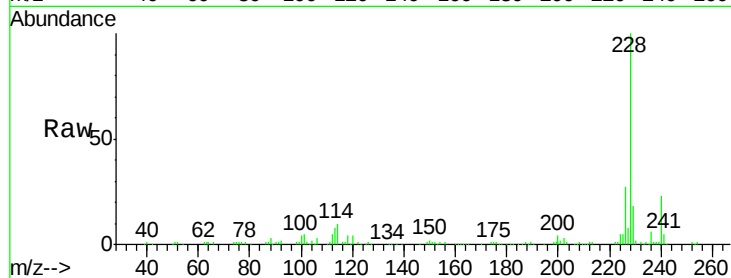




#80  
Benzo(a)anthracene  
Concen: 23.91 ng  
RT: 21.18 min Scan# 1758  
Delta R.T. -0.01 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

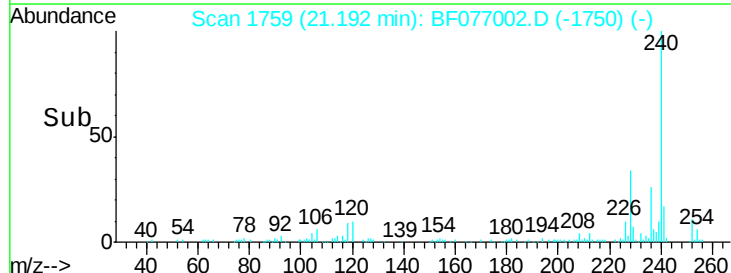
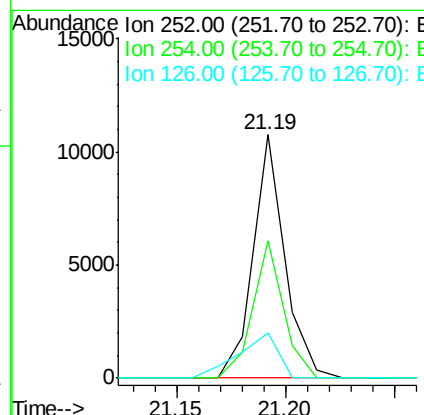
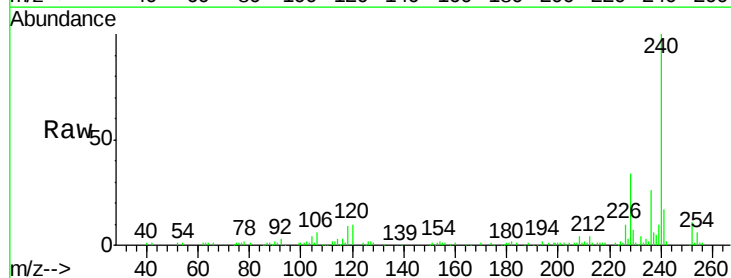
Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

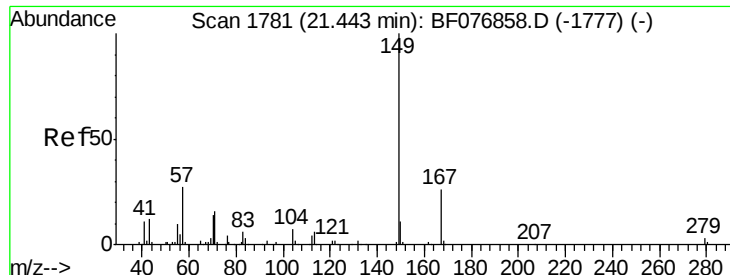
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.5  | 22.1  | 33.1  |
| 229     | 18.1  | 15.5  | 23.3  |



#81  
3,3'-Dichlorobenzidine  
Concen: 5.31 ng  
RT: 21.19 min Scan# 1759  
Delta R.T. -0.00 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 56.4  | 50.2  | 75.4  |
| 126     | 18.5  | 11.5  | 17.3  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 34.19 ng

RT: 21.33 min Scan# 1771

Delta R.T. -0.01 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

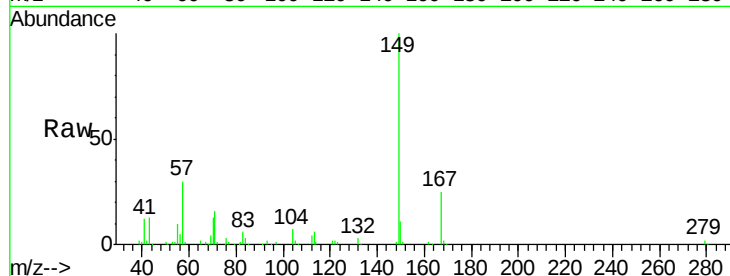
Tot Ion:149 Resp: 151275

Ion Ratio Lower Upper

149 100

167 25.1 20.6 30.8

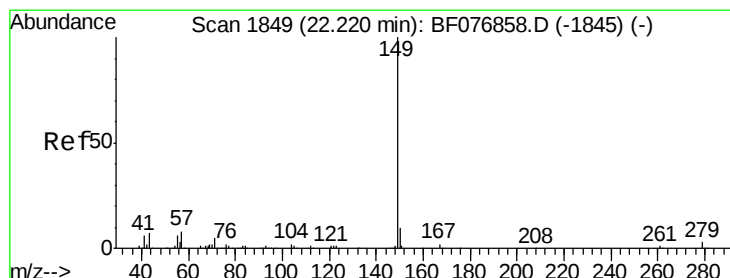
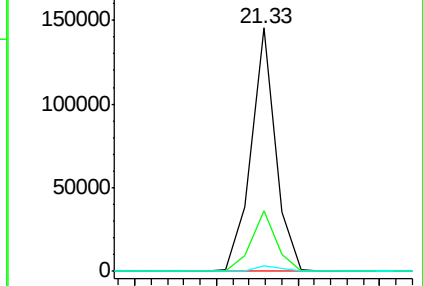
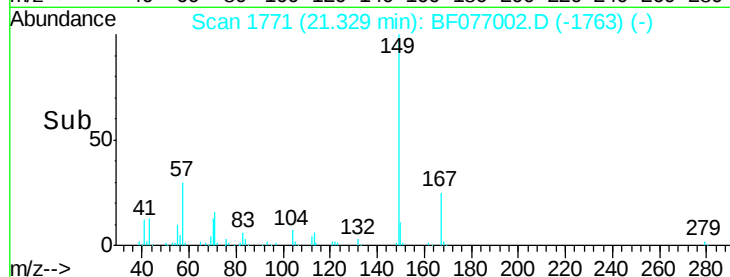
279 2.3 2.2 3.2



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 19.82 ng

RT: 22.09 min Scan# 1838

Delta R.T. -0.03 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

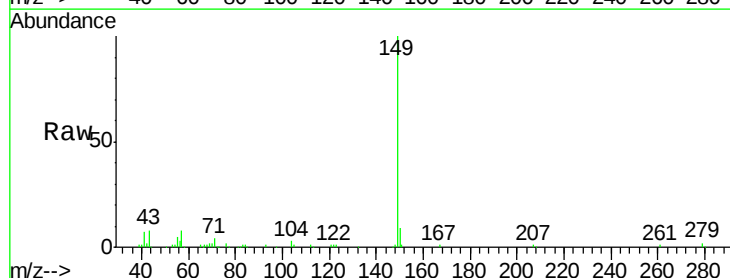
Tgt Ion:149 Resp: 152178

Ion Ratio Lower Upper

149 100

167 1.3 1.1 1.7

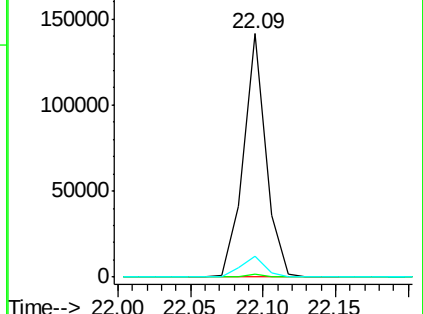
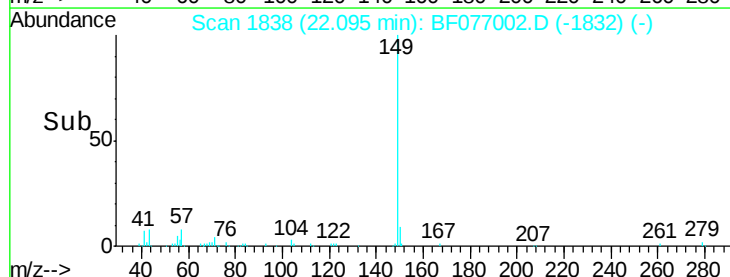
43 9.1 6.6 10.0

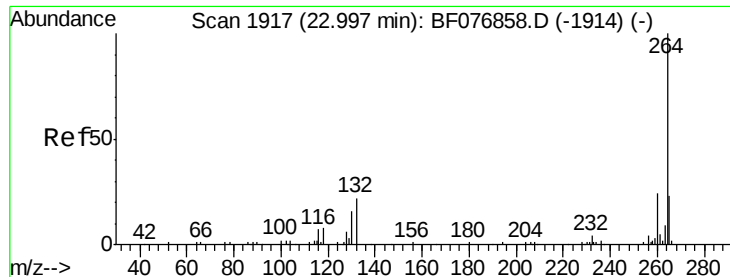


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0



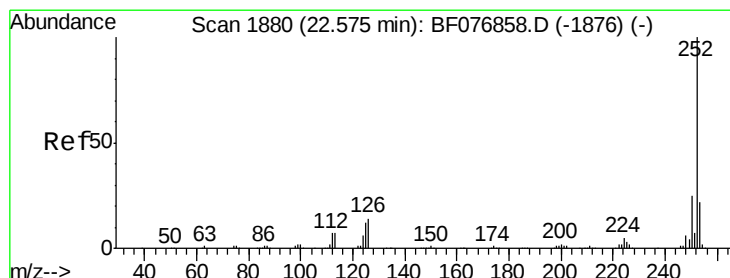
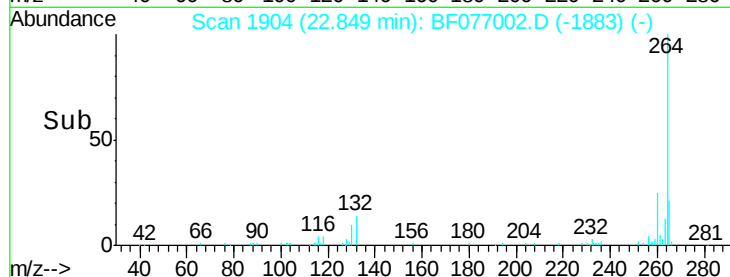
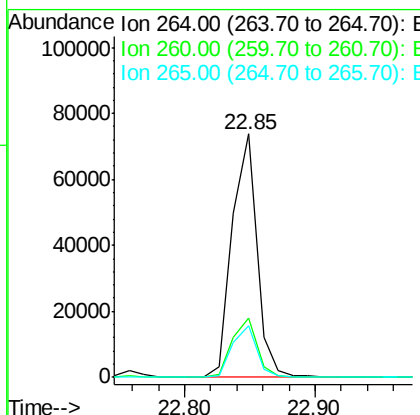
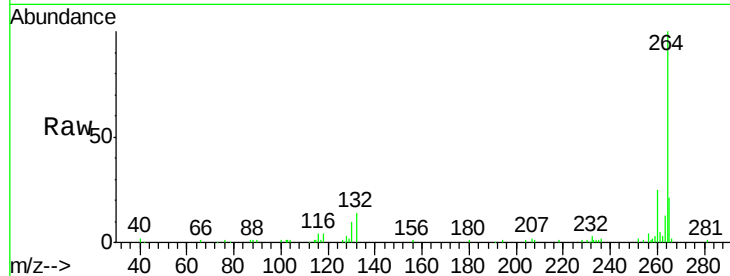


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 22.85 min Scan# 1904  
Delta R.T. -0.06 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

Tot Ion:264 Resp: 97371  

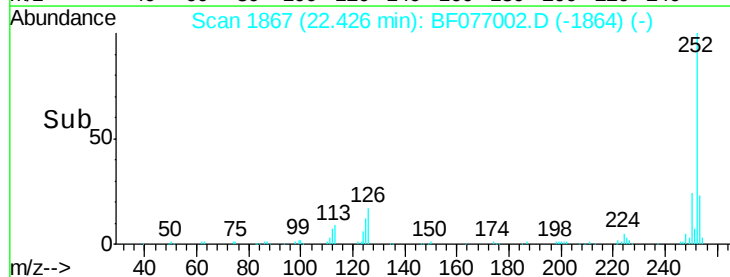
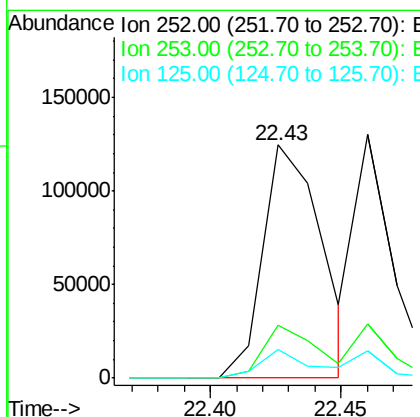
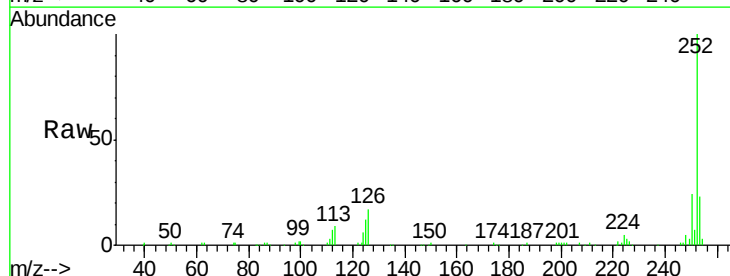
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.5  | 19.0  | 28.4  |
| 265 | 21.0  | 18.1  | 27.1  |

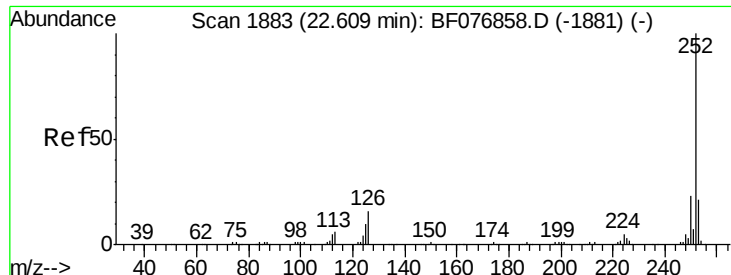


#87  
Benzo(b)fluoranthene  
Concen: 29.77 ng  
RT: 22.43 min Scan# 1867  
Delta R.T. -0.07 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion:252 Resp: 195234  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.7  | 17.5  | 26.3  |
| 125 | 12.3  | 9.4   | 14.0  |

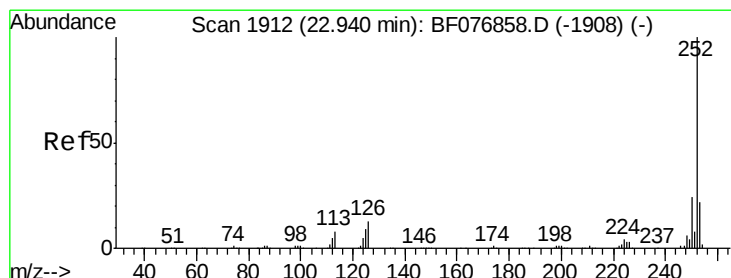
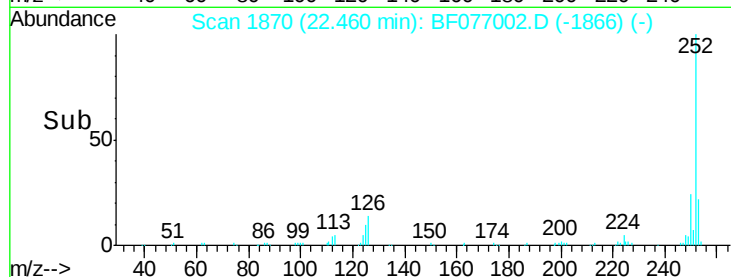
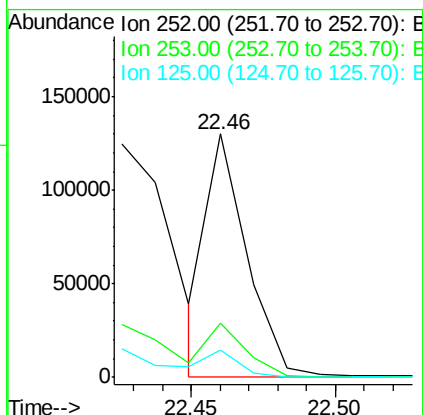
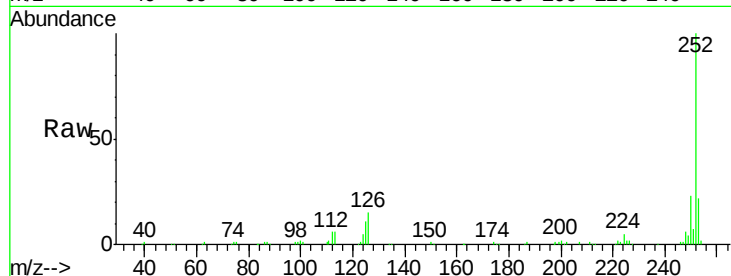




#88  
Benzo(k)fluoranthene  
Concen: 22.37 ng m  
RT: 22.46 min Scan# 1870  
Delta R.T. -0.06 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

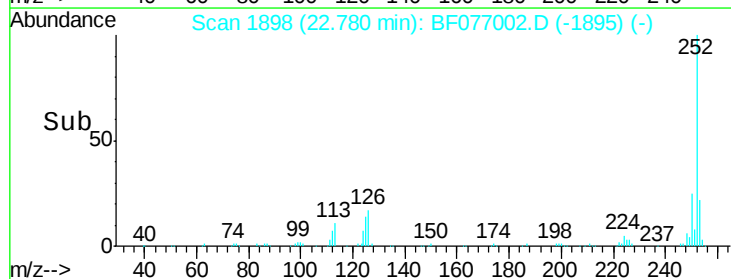
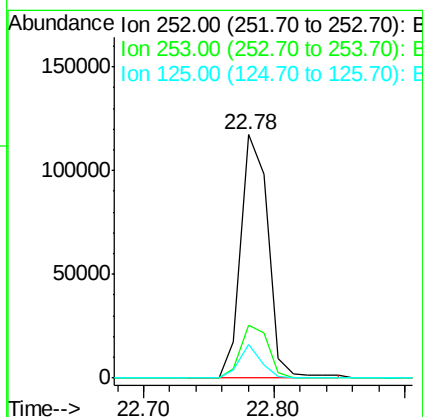
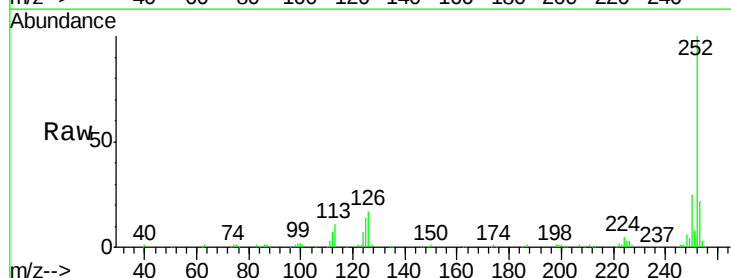
Instrument :  
BNA\_F  
ClientSampleId :  
8036DL

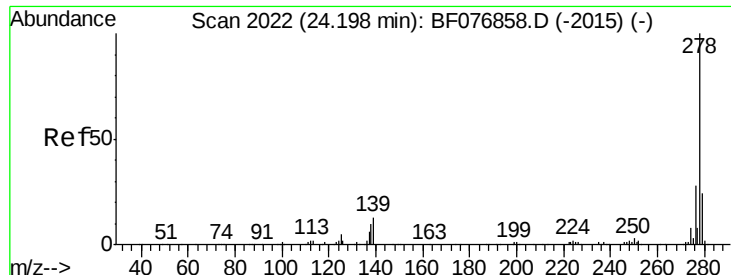
Tot Ion:252 Resp: 128181  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.2 25.8  
125 11.3 7.1 10.7#



#89  
Benzo(a)pyrene  
Concen: 29.63 ng  
RT: 22.78 min Scan# 1898  
Delta R.T. -0.07 min  
Lab File: BF077002.D  
Acq: 21 Jan 2015 18:41

Tgt Ion:252 Resp: 171386  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.9 26.9  
125 13.8 7.2 10.8#





#90

Dibenzo(a,h)anthracene

Concen: 4.36 ng

RT: 23.98 min Scan# 2003

Delta R.T. -0.11 min

Lab File: BF077002.D

Acq: 21 Jan 2015 18:41

Instrument :

BNA\_F

ClientSampleId :

8036DL

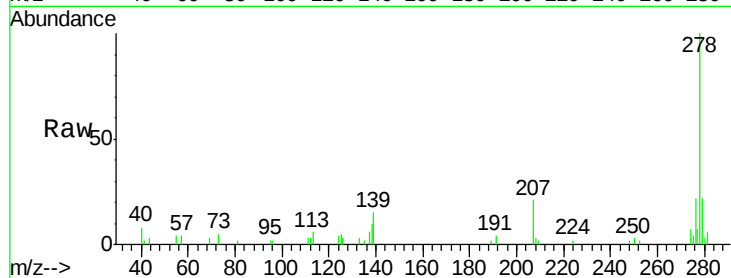
Tot Ion:278 Resp: 23128

Ion Ratio Lower Upper

278 100

139 15.5 10.5 15.7

279 22.3 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

