

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF022818\  
 Data File : BF103295.D  
 Acq On : 28 Feb 2018 16:17  
 Operator : SJ/JU  
 Sample : PB106912BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

Quant Time: Mar 01 00:02:02 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 27 17:05:20 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 127130   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 544086   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 255314   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 451039   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 276776   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.56 | 264  | 218444   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.51  | 112 | 1095908 | 130.38 | ng | 0.02 |
| 7) Phenol-d6             | 6.52  | 99  | 1357510 | 131.98 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.44  | 82  | 807727  | 84.78  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.72 | 330 | 262954  | 121.68 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 1195567 | 79.40  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.99 | 244 | 1113767 | 96.73  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |        |    | Qvalue |
|--------------------------------|------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.72 | 88  | 218443  | 49.204 | ng | 92     |
| 3) Pyridine                    | 3.51 | 79  | 594843  | 50.188 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 3.45 | 42  | 303293  | 63.450 | ng | 89     |
| 6) Aniline                     | 6.54 | 93  | 437863  | 29.497 | ng | # 90   |
| 8) 2-Chlorophenol              | 6.66 | 128 | 420962  | 48.209 | ng | 93     |
| 9) Benzaldehyde                | 6.43 | 77  | 200574  | 29.807 | ng | 98     |
| 10) Phenol                     | 6.53 | 94  | 540397  | 45.258 | ng | 87     |
| 11) bis(2-Chloroethyl)ether    | 6.61 | 93  | 440931  | 48.654 | ng | 91     |
| 12) 1,3-Dichlorobenzene        | 6.82 | 146 | 443568  | 44.451 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 6.89 | 146 | 446181  | 44.598 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 7.05 | 146 | 410046  | 44.449 | ng | 98     |
| 15) Benzyl Alcohol             | 7.02 | 79  | 384986  | 49.671 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.15 | 45  | 708078  | 45.500 | ng | 93     |
| 17) 2-Methylphenol             | 7.13 | 107 | 364352  | 45.914 | ng | # 94   |
| 18) Hexachloroethane           | 7.38 | 117 | 170796  | 46.895 | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 7.29 | 70  | 301880  | 47.158 | ng | 94     |
| 20) 3+4-Methylphenols          | 7.29 | 107 | 428034  | 44.249 | ng | # 60   |
| 22) Acetophenone               | 7.28 | 105 | 563239  | 44.350 | ng | # 85   |
| 24) Nitrobenzene               | 7.46 | 77  | 496745  | 47.356 | ng | 94     |
| 25) Isophorone                 | 7.70 | 82  | 919294  | 48.992 | ng | 97     |
| 26) 2-Nitrophenol              | 7.77 | 139 | 240570  | 48.717 | ng | 93     |
| 27) 2,4-Dimethylphenol         | 7.81 | 122 | 403091  | 53.404 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.90 | 93  | 551318  | 49.974 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 8.02 | 162 | 355799  | 49.235 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 8.10 | 180 | 336680  | 43.750 | ng | 99     |
| 31) Naphthalene                | 8.18 | 128 | 1203546 | 45.183 | ng | 100    |
| 32) Benzoic acid               | 7.96 | 122 | 292426  | 51.613 | ng | 94     |
| 33) 4-Chloroaniline            | 8.23 | 127 | 297345  | 25.868 | ng | 96     |
| 34) Hexachlorobutadiene        | 8.29 | 225 | 170062  | 42.438 | ng | 99     |
| 35) Caprolactam                | 8.62 | 113 | 90507   | 35.636 | ng | # 83   |
| 36) 4-Chloro-3-methylphenol    | 8.72 | 107 | 407218  | 49.960 | ng | 100    |
| 37) 2-Methylnaphthalene        | 8.87 | 142 | 799179  | 46.423 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.04 | 216 | 290466  | 41.615 | ng | # 96   |
| 40) Hexachlorocyclopentadiene  | 9.02 | 237 | 205247  | 83.045 | ng | 98     |

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 Sample : PB106912BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

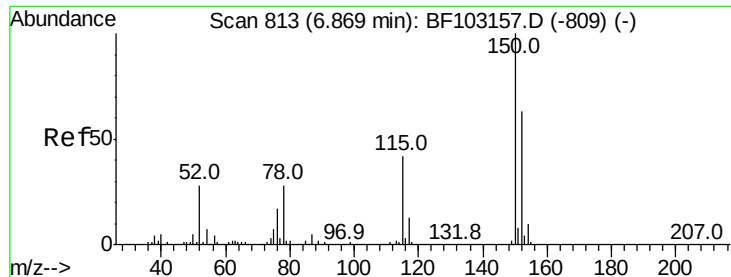
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

Quant Time: Mar 01 00:02:02 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 27 17:05:20 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.15  | 196  | 219939   | 46.830 | ng    | 99       |
| 43) 2,4,5-Trichlorophenol      | 9.20  | 196  | 238289   | 44.114 | ng    | 96       |
| 45) 1,1'-Biphenyl              | 9.33  | 154  | 905168   | 42.309 | ng    | 99       |
| 46) 2-Chloronaphthalene        | 9.36  | 162  | 722060   | 42.661 | ng    | 100      |
| 47) 2-Nitroaniline             | 9.46  | 65   | 305400   | 48.712 | ng    | 84       |
| 48) Acenaphthylene             | 9.78  | 152  | 1110047  | 42.626 | ng    | 100      |
| 49) Dimethylphthalate          | 9.63  | 163  | 899851   | 43.934 | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.70  | 165  | 193277   | 44.967 | ng    | # 83     |
| 51) Acenaphthene               | 9.95  | 154  | 642736   | 42.326 | ng    | 99       |
| 52) 3-Nitroaniline             | 9.87  | 138  | 168156   | 30.836 | ng    | 94       |
| 53) 2,4-Dinitrophenol          | 9.99  | 184  | 155694   | 97.844 | ng    | # 17     |
| 54) Dibenzofuran               | 10.12 | 168  | 949251   | 45.538 | ng    | 94       |
| 55) 4-Nitrophenol              | 10.05 | 139  | 273305   | 80.866 | ng    | # 84     |
| 56) 2,4-Dinitrotoluene         | 10.12 | 165  | 250013   | 45.992 | ng    | # 89     |
| 57) Fluorene                   | 10.47 | 166  | 740757   | 41.715 | ng    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.25 | 232  | 175206   | 48.284 | ng    | # 95     |
| 59) Diethylphthalate           | 10.33 | 149  | 933870   | 47.673 | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.45 | 204  | 333356   | 44.268 | ng    | 96       |
| 61) 4-Nitroaniline             | 10.50 | 138  | 225873   | 41.469 | ng    | 98       |
| 62) Azobenzene                 | 10.62 | 77   | 946501   | 47.469 | ng    | 94       |
| 64) 4,6-Dinitro-2-methylphenol | 10.53 | 198  | 113035   | 41.890 | ng    | 90       |
| 65) n-Nitrosodiphenylamine     | 10.57 | 169  | 674206   | 42.931 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.95 | 248  | 199519   | 42.465 | ng    | 98       |
| 67) Hexachlorobenzene          | 11.02 | 284  | 208678   | 40.919 | ng    | 98       |
| 68) Atrazine                   | 11.10 | 200  | 218431   | 46.275 | ng    | 99       |
| 69) Pentachlorophenol          | 11.22 | 266  | 192117   | 77.912 | ng    | 98       |
| 70) Phenanthrene               | 11.43 | 178  | 1078072  | 43.432 | ng    | 99       |
| 71) Anthracene                 | 11.49 | 178  | 1100981  | 43.255 | ng    | 99       |
| 72) Carbazole                  | 11.65 | 167  | 1046868  | 41.301 | ng    | 99       |
| 73) Di-n-butylphthalate        | 11.96 | 149  | 1412194  | 44.525 | ng    | 99       |
| 74) Fluoranthene               | 12.63 | 202  | 1070263  | 42.908 | ng    | 98       |
| 76) Benzidine                  | 12.75 | 184  | 147161   | 14.222 | ng    | 98       |
| 77) Pyrene                     | 12.86 | 202  | 1048646  | 48.595 | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.46 | 149  | 559759   | 49.097 | ng    | 96       |
| 80) Benzo(a)anthracene         | 14.04 | 228  | 818428   | 45.574 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.00 | 252  | 202619   | 31.615 | ng    | 97       |
| 82) Chrysene                   | 14.09 | 228  | 770748   | 44.202 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 14.02 | 149  | 733622   | 47.683 | ng    | 99       |
| 84) Di-n-octyl phthalate       | 14.64 | 149  | 1161464  | 46.724 | ng    | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 17.09 | 276  | 644724   | 46.704 | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 15.12 | 252  | 683058   | 47.558 | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 15.15 | 252  | 611727   | 45.231 | ng    | 98       |
| 89) Benzo(a)pyrene             | 15.50 | 252  | 605104   | 47.179 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene     | 17.10 | 278  | 534537   | 53.936 | ng    | 100      |
| 91) Benzo(g,h,i)perylene       | 17.55 | 276  | 562222   | 58.045 | ng    | 97       |

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



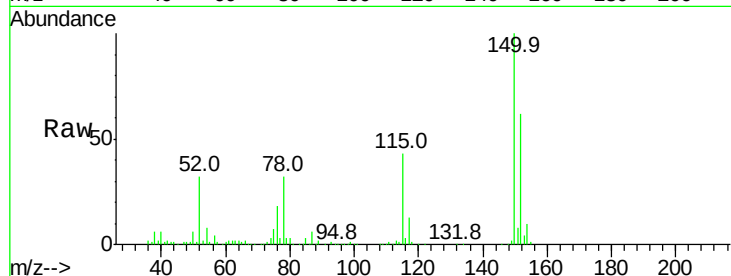


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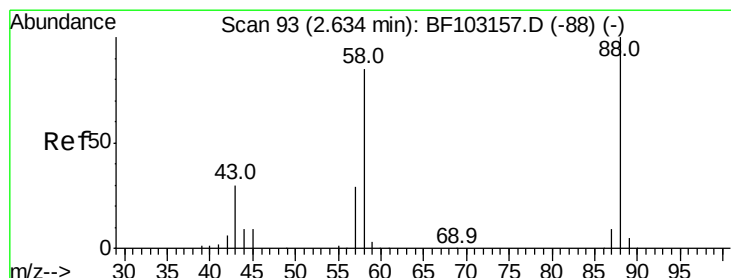
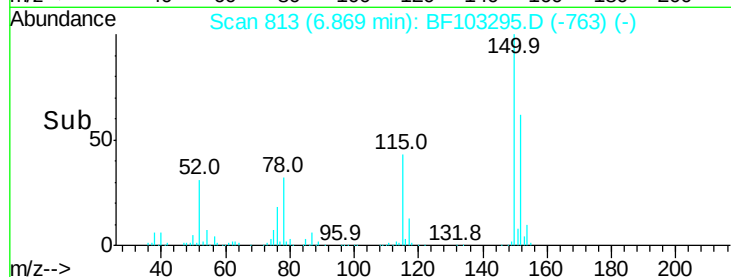
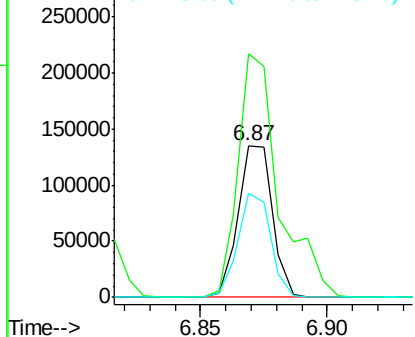
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.6 | 124.6 | 186.8 |
| 115     | 69.0  | 50.1  | 75.1  |



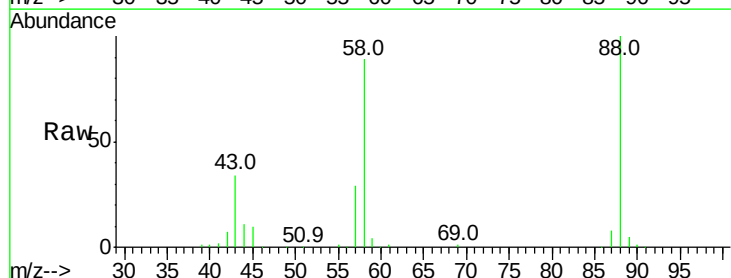
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



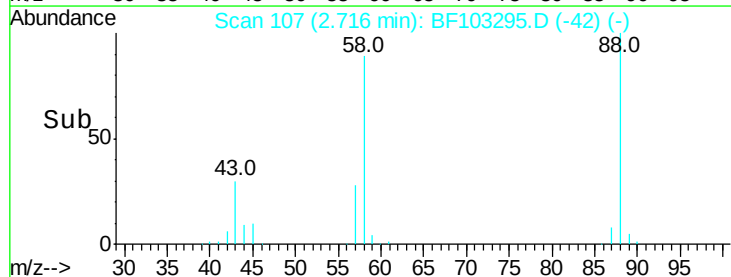
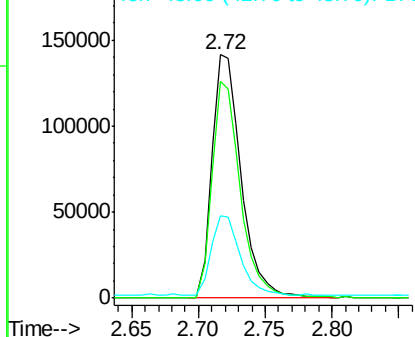
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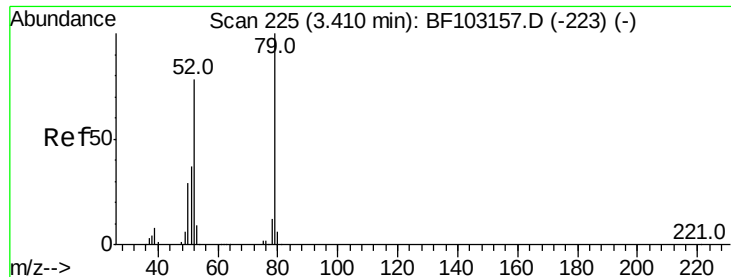
1,4-Dioxane  
Concen: 49.204 ng  
RT: 2.72 min Scan# 107  
Delta R.T. 0.08 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 87.0  | 62.6  | 93.8  |
| 43      | 32.6  | 24.6  | 37.0  |



Abundance Ion 88.00 (87.70 to 88.70): BF1  
Ion 58.00 (57.70 to 58.70): BF1  
Ion 43.00 (42.70 to 43.70): BF1

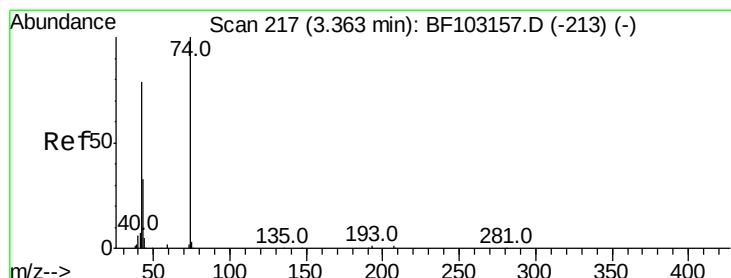
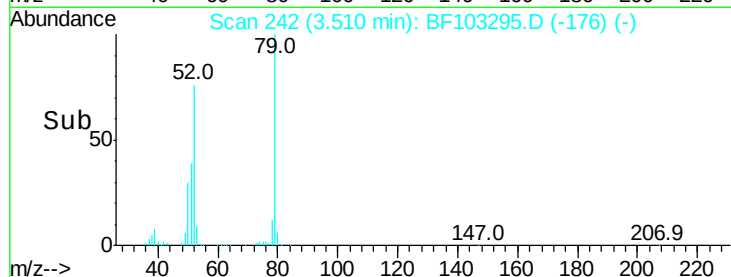
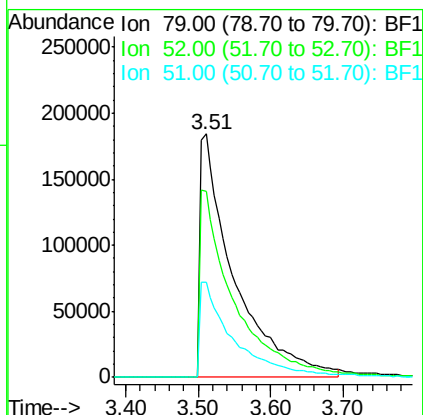
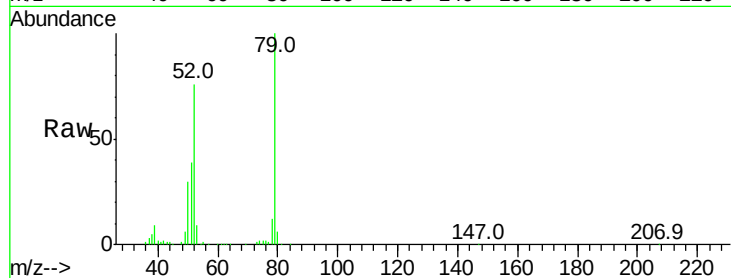




#3  
 Pvridine  
 Concen: 50.188 ng  
 RT: 3.51 min Scan# 242  
 Delta R.T. 0.09 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

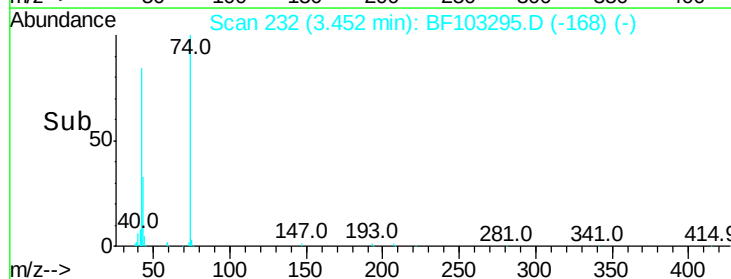
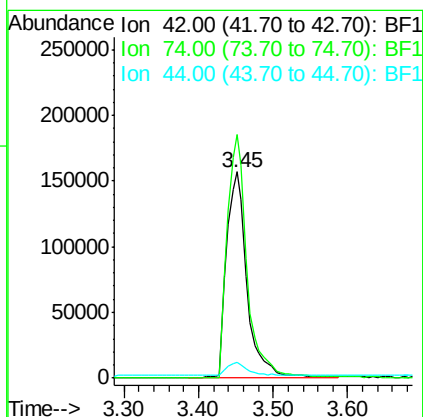
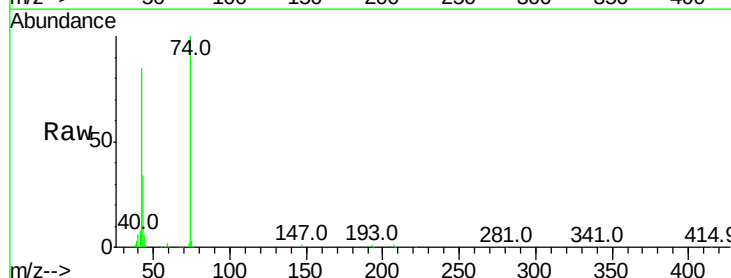
Instrument :  
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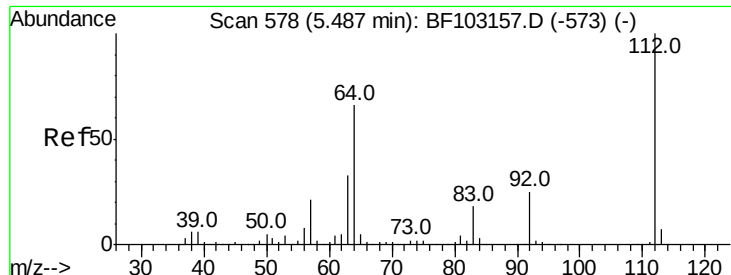
Tot Ion: 79 Resp: 594843  
 Ion Ratio Lower Upper  
 79 100  
 52 76.3 59.8 89.6  
 51 39.3 29.8 44.8



#4  
 n-Nitrosodimethylamine  
 Concen: 63.450 ng  
 RT: 3.45 min Scan# 232  
 Delta R.T. 0.08 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Tgt Ion: 42 Resp: 303293  
 Ion Ratio Lower Upper  
 42 100  
 74 118.1 104.9 157.3  
 44 7.4 6.9 10.3

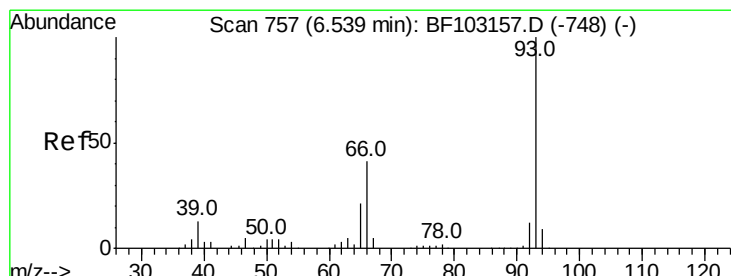
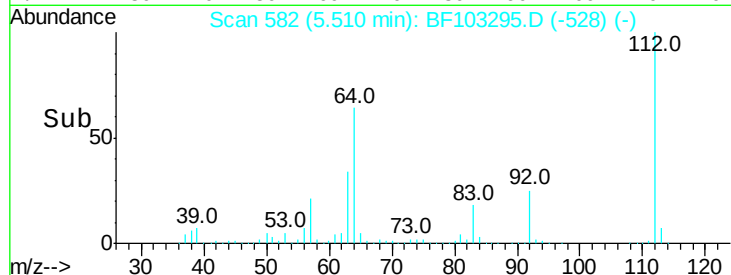
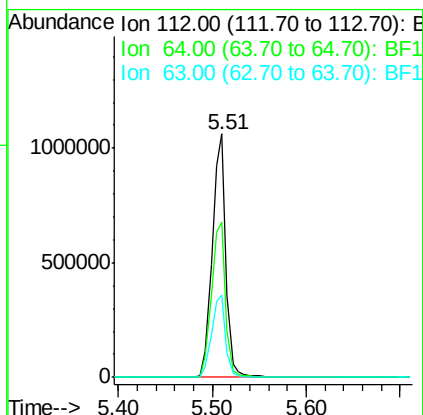
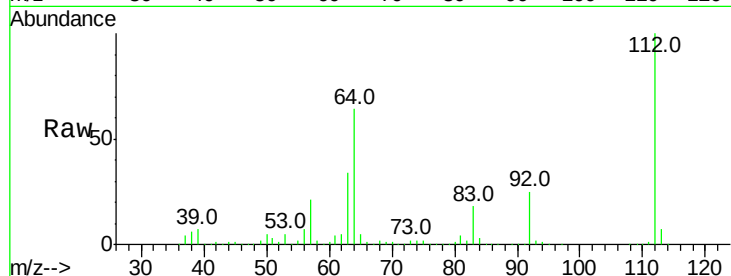




#5  
 2-Fluorophenol  
 Concen: 130.377 ng  
 RT: 5.51 min Scan# 582  
 Delta R.T. 0.02 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

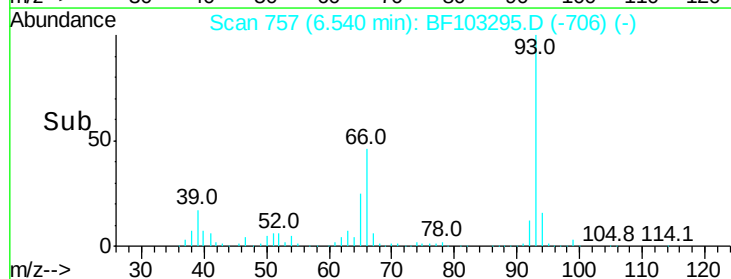
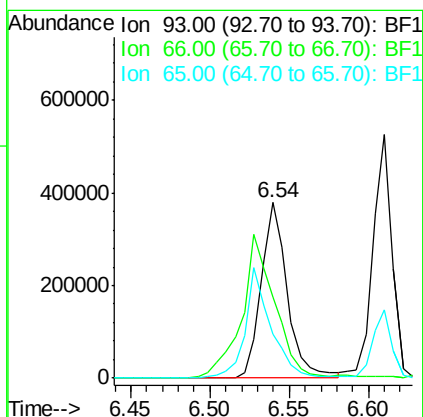
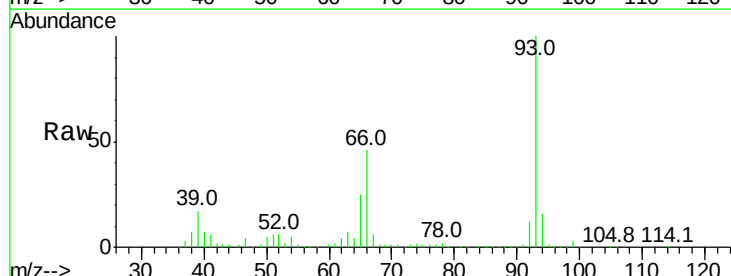
Instrument :  
 BNA\_F  
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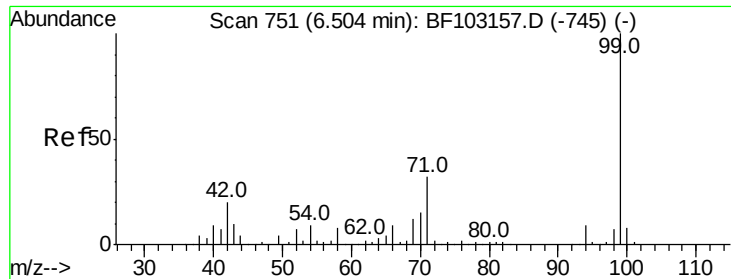
Tot Ion:112 Resp: 1095908  
 Ion Ratio Lower Upper  
 112 100  
 64 63.8 47.9 71.9  
 63 33.6 23.7 35.5



#6  
 Aniline  
 Concen: 29.497 ng  
 RT: 6.54 min Scan# 757  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Tgt Ion: 93 Resp: 437863  
 Ion Ratio Lower Upper  
 93 100  
 66 46.1 32.2 48.2  
 65 25.2 16.4 24.6#





#7

Phenol-d6

Concen: 131.981 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

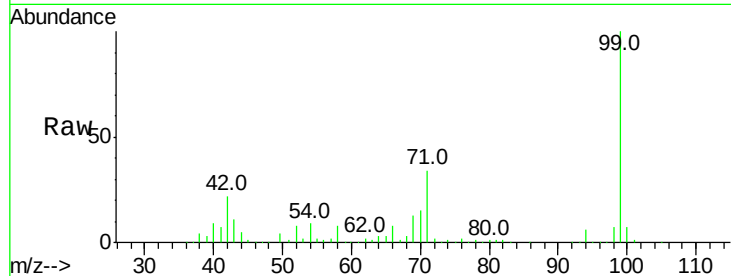
Tot Ion: 99 Resp: 1357510

Ion Ratio Lower Upper

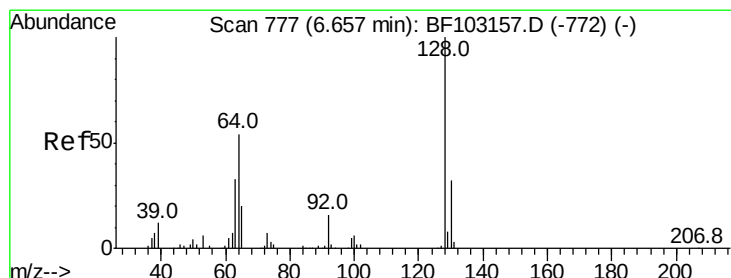
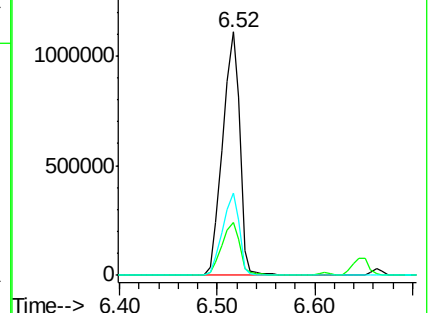
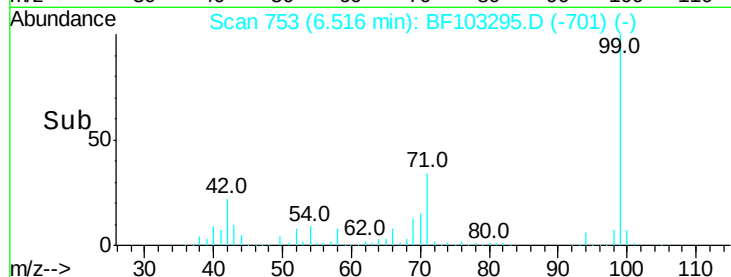
99 100

42 21.6 14.5 21.7

71 34.1 25.4 38.0



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



#8

2-Chlorophenol

Concen: 48.209 ng

RT: 6.66 min Scan# 778

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

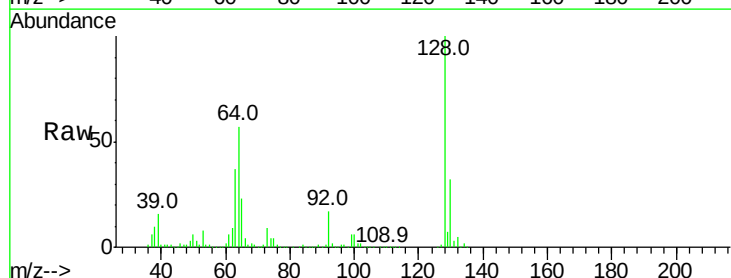
Tgt Ion:128 Resp: 420962

Ion Ratio Lower Upper

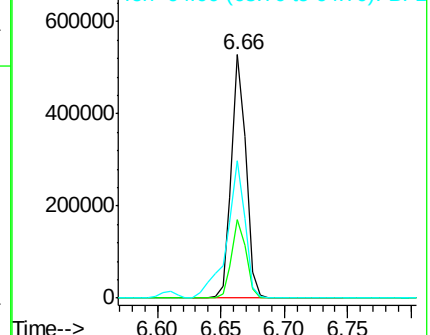
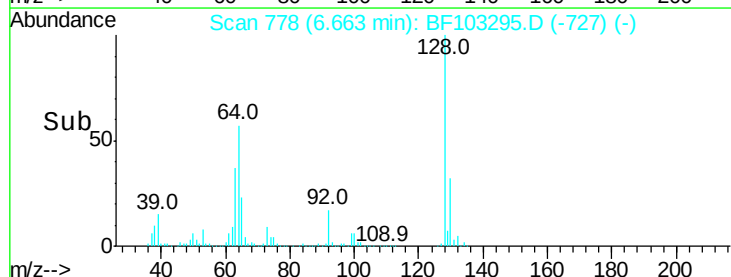
128 100

130 32.1 13.0 53.0

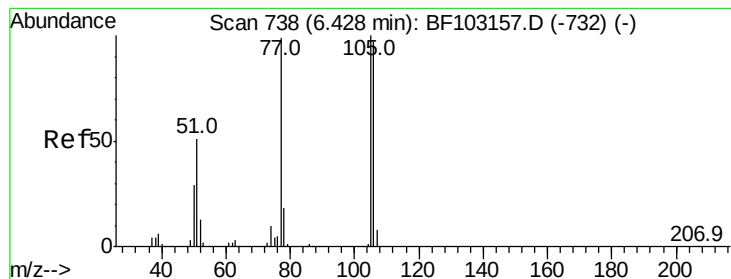
64 56.6 29.4 69.4



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF1







#9

Benzaldehyde

Concen: 29.807 ng

RT: 6.43 min Scan# 738

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

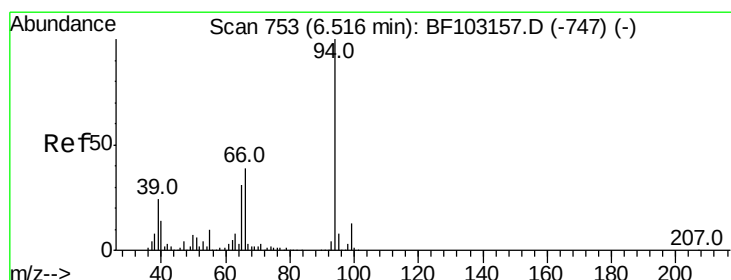
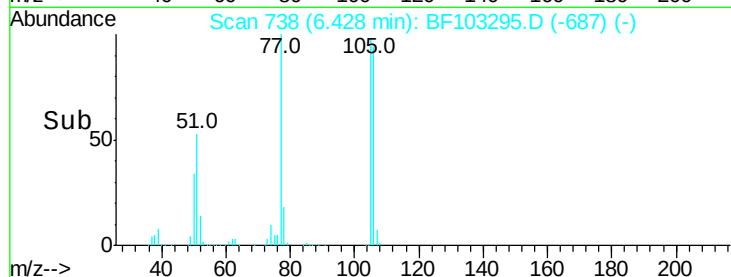
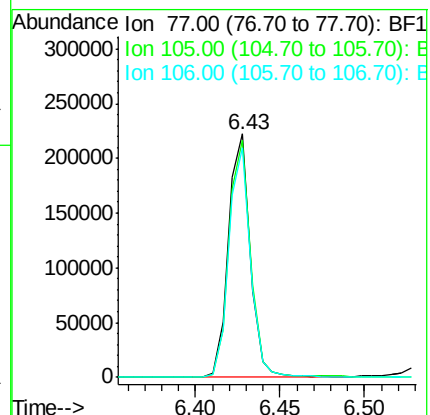
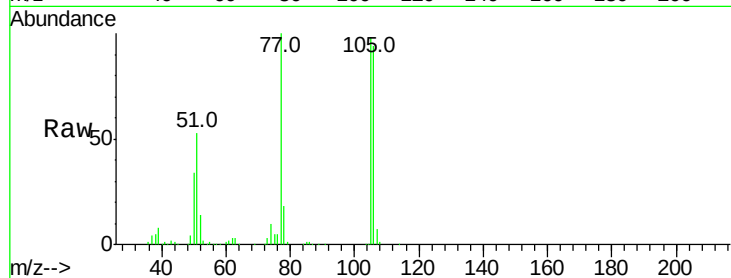
Tot Ion: 77 Resp: 200574

Ion Ratio Lower Upper

77 100

105 97.7 81.1 121.1

106 94.4 74.5 114.5



#10

Phenol

Concen: 45.258 ng

RT: 6.53 min Scan# 755

Delta R.T. 0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

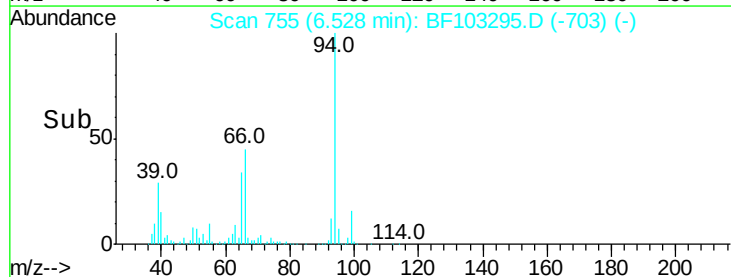
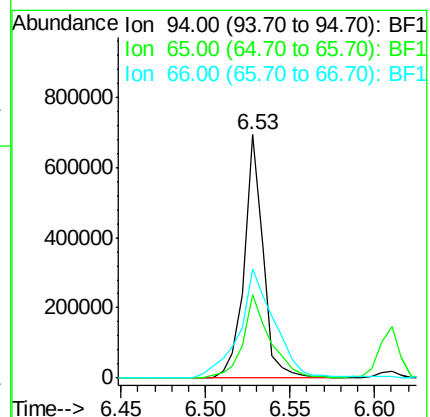
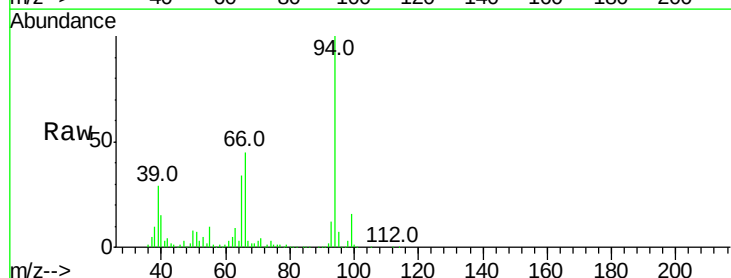
Tgt Ion: 94 Resp: 540397

Ion Ratio Lower Upper

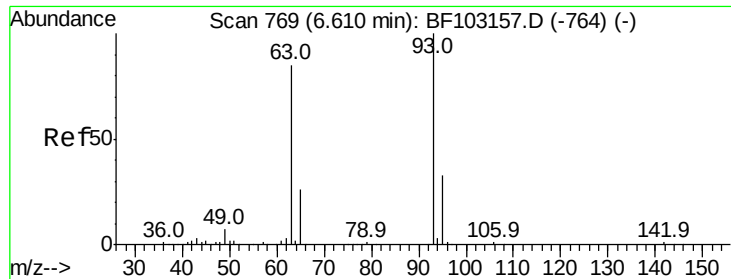
94 100

65 34.2 7.9 47.9

66 44.6 16.2 56.2







#11

bis(2-Chloroethyl)ether

Concen: 48.654 ng

RT: 6.61 min Scan# 769

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

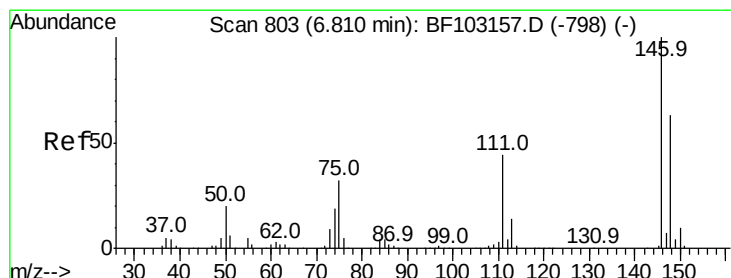
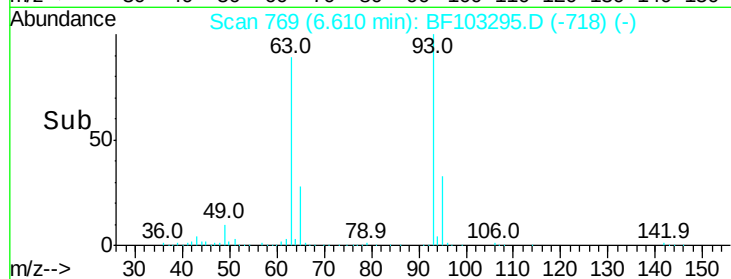
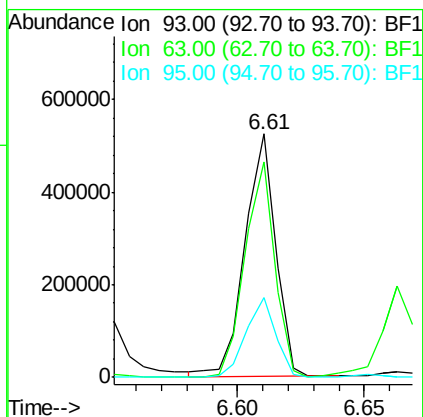
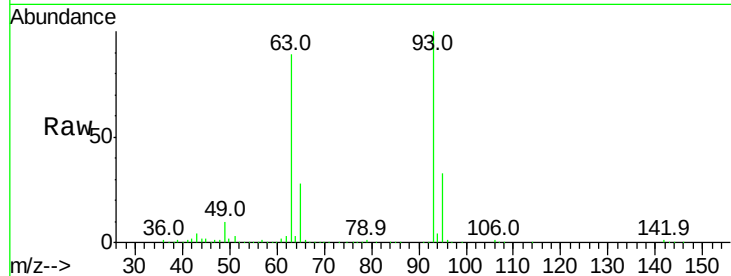
Tot Ion: 93 Resp: 440931

Ion Ratio Lower Upper

93 100

63 88.6 58.6 98.6

95 32.7 11.8 51.8



#12

1,3-Dichlorobenzene

Concen: 44.451 ng

RT: 6.82 min Scan# 804

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

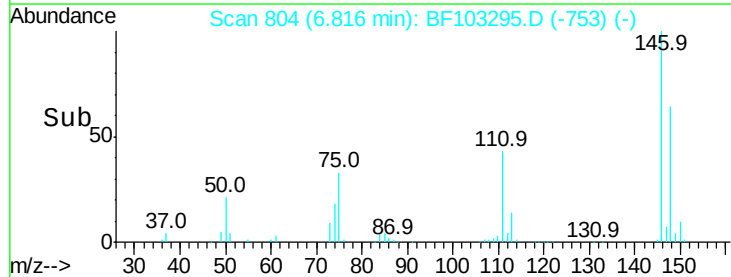
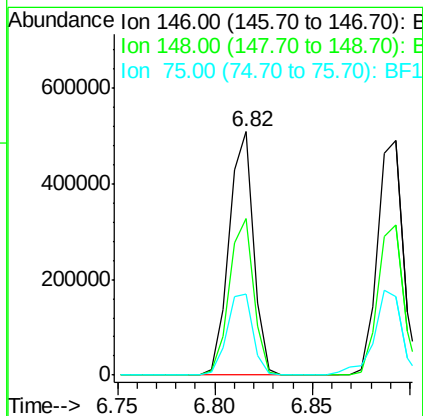
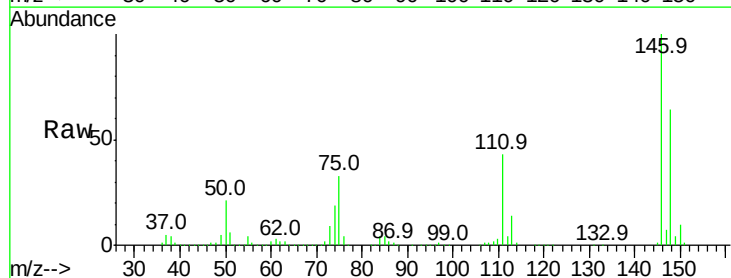
Tgt Ion: 146 Resp: 443568

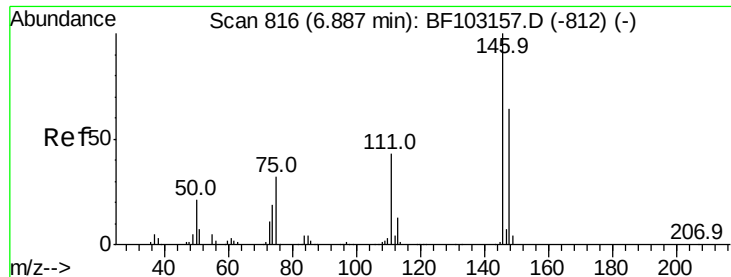
Ion Ratio Lower Upper

146 100

148 64.3 51.8 77.8

75 33.3 24.2 36.4

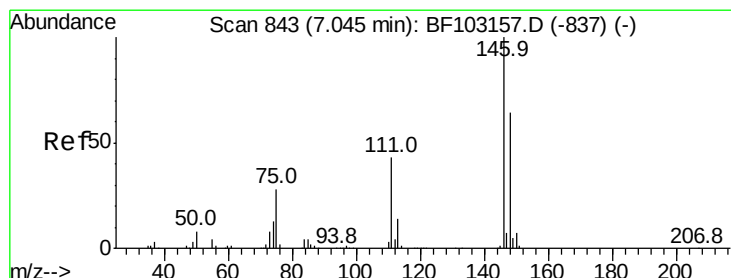
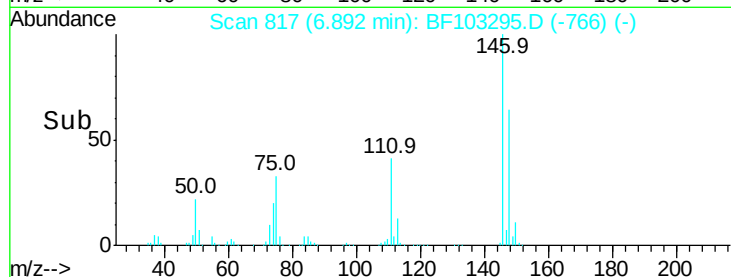
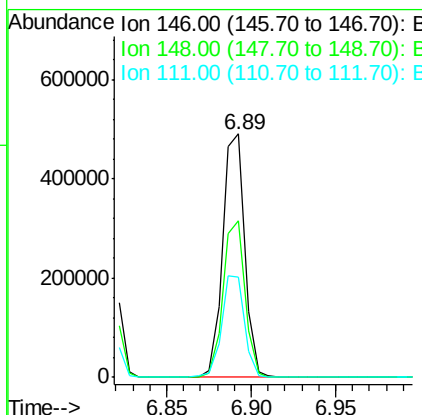
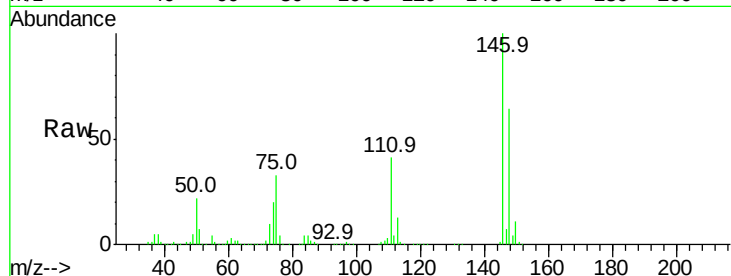




#13  
1,4-Dichlorobenzene  
Concen: 44.598 ng  
RT: 6.89 min Scan# 817  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

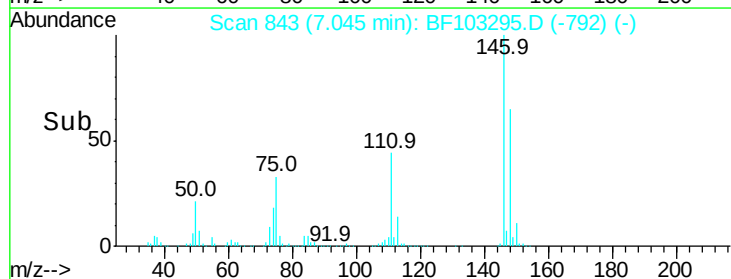
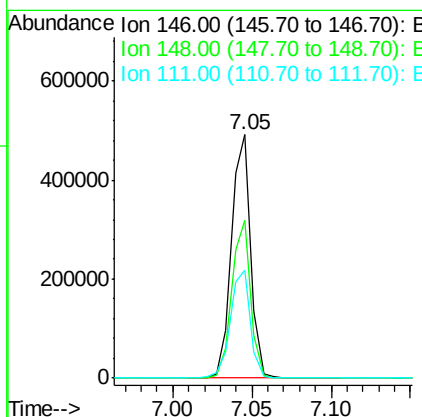
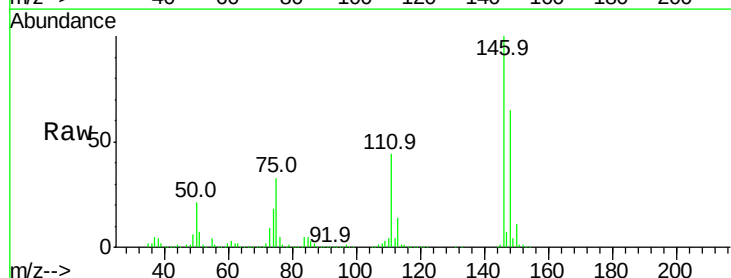
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

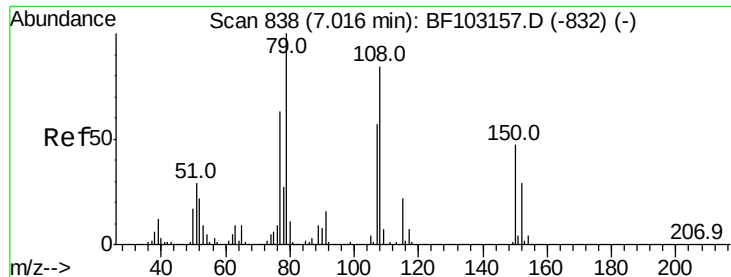
Tot Ion:146 Resp: 446181  
Ion Ratio Lower Upper  
146 100  
148 64.2 50.8 76.2  
111 41.0 34.2 51.2



#14  
1,2-Dichlorobenzene  
Concen: 44.449 ng  
RT: 7.05 min Scan# 843  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:146 Resp: 410046  
Ion Ratio Lower Upper  
146 100  
148 65.0 50.6 75.8  
111 44.3 36.0 54.0





#15

Benzyl Alcohol

Concen: 49.671 ng

RT: 7.02 min Scan# 838

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

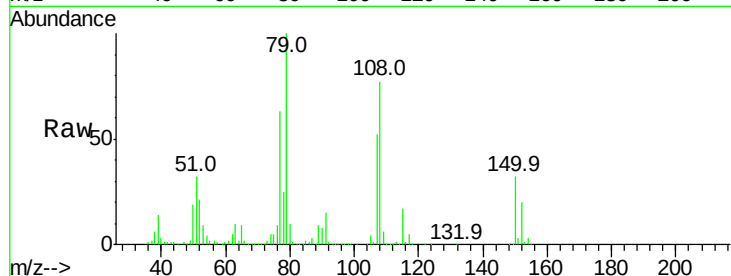
Tot Ion: 79 Resp: 384986

Ion Ratio Lower Upper

79 100

108 77.3 65.1 97.7

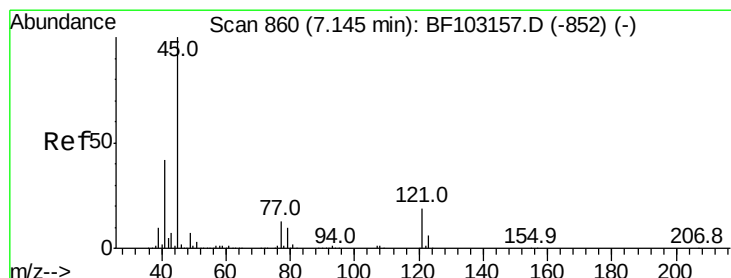
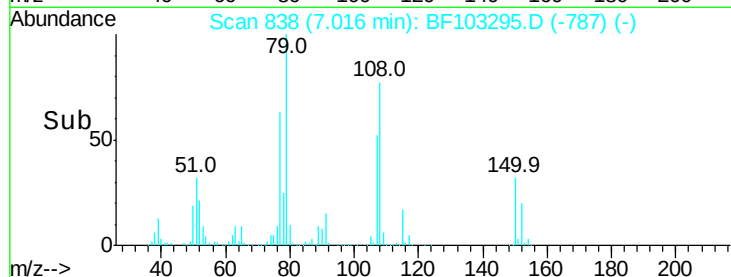
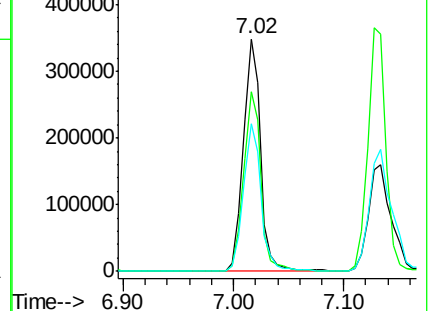
77 63.4 50.6 75.8



Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): BF1

Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-chloropropane)

Concen: 45.500 ng

RT: 7.15 min Scan# 860

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

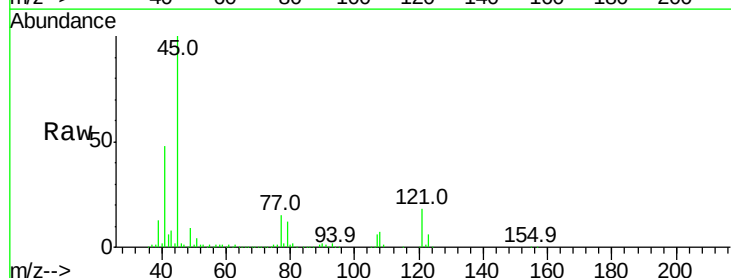
Tgt Ion: 45 Resp: 708078

Ion Ratio Lower Upper

45 100

77 15.4 0.0 32.9

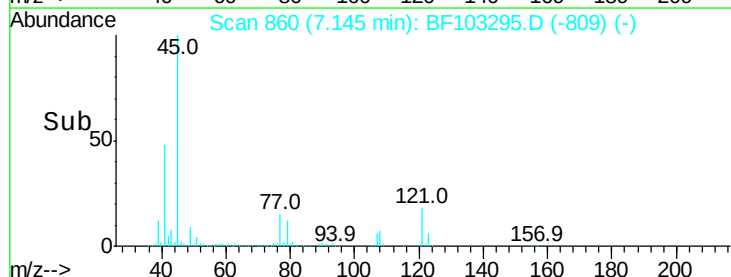
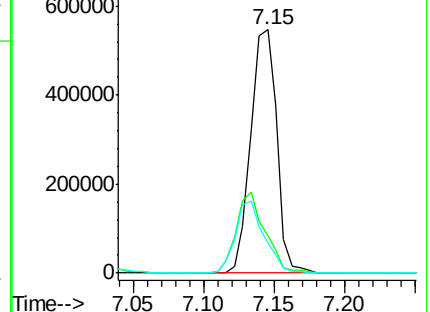
79 12.3 0.0 29.6

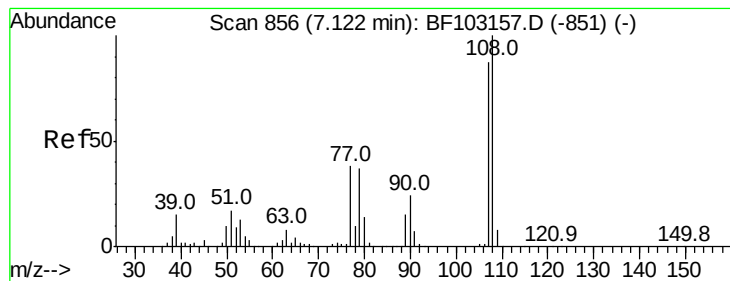


Abundance Ion 45.00 (44.70 to 45.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1





#17

2-Methylphenol

Concen: 45.914 ng

RT: 7.13 min Scan# 857

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

Tot Ion:107 Resp: 364352

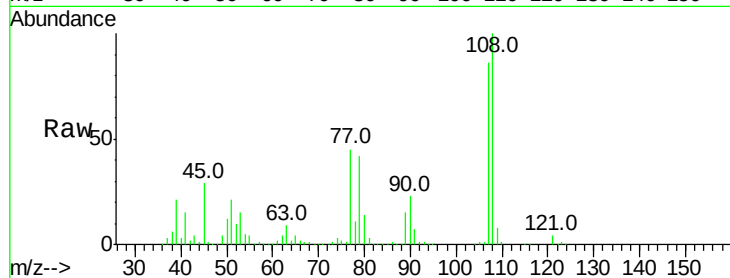
Ion Ratio Lower Upper

107 100

108 116.3 91.7 137.5

77 51.8 33.8 50.8#

79 48.6 33.8 50.8

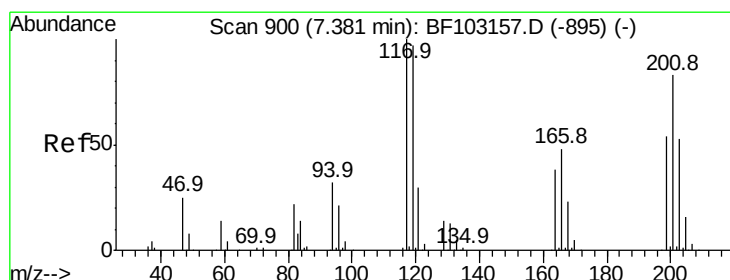
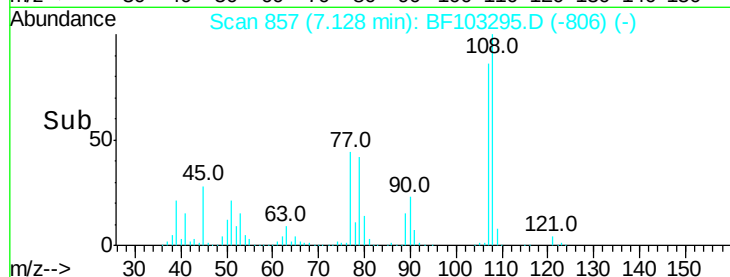
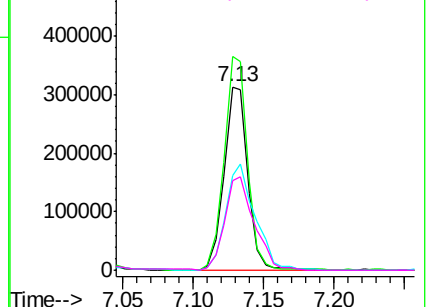


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#18

Hexachloroethane

Concen: 46.895 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

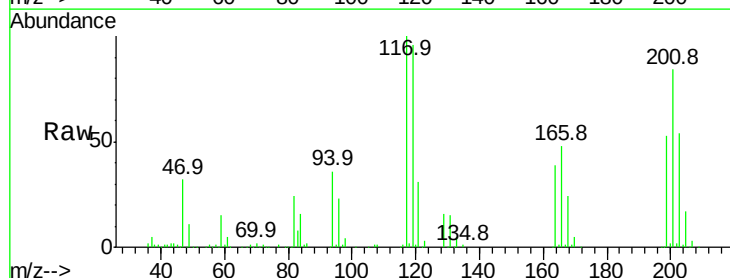
Tgt Ion:117 Resp: 170796

Ion Ratio Lower Upper

117 100

119 96.3 75.8 113.8

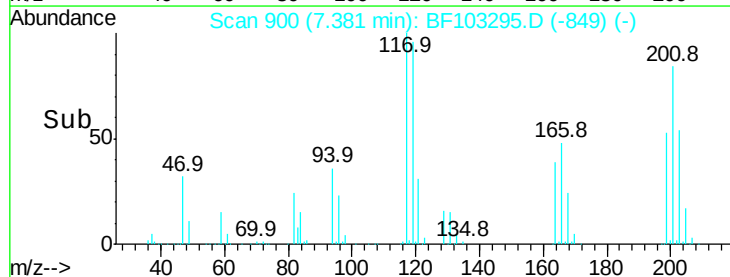
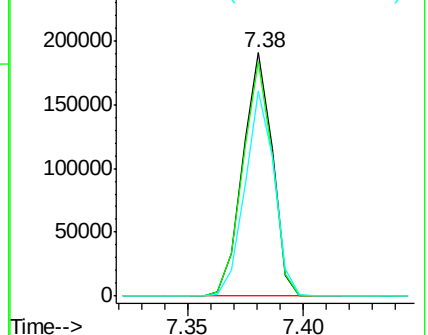
201 84.4 75.7 113.5

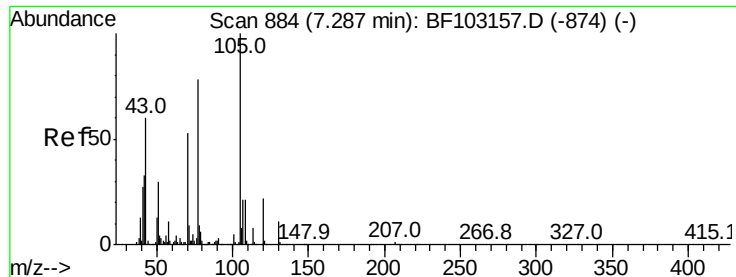


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

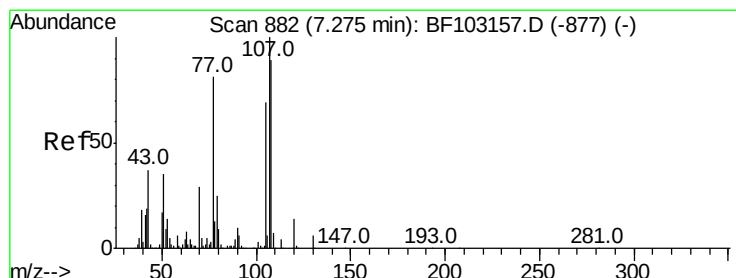
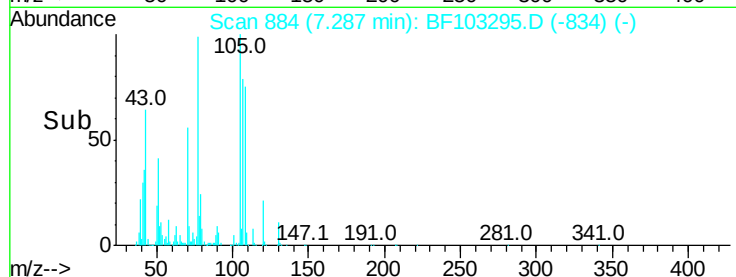
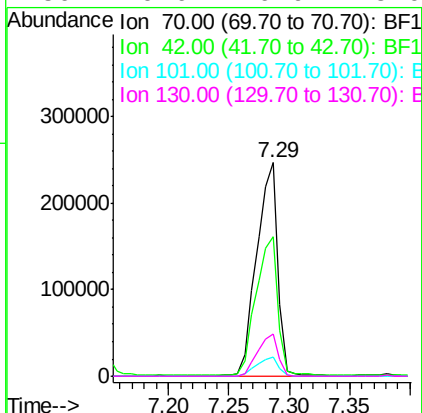
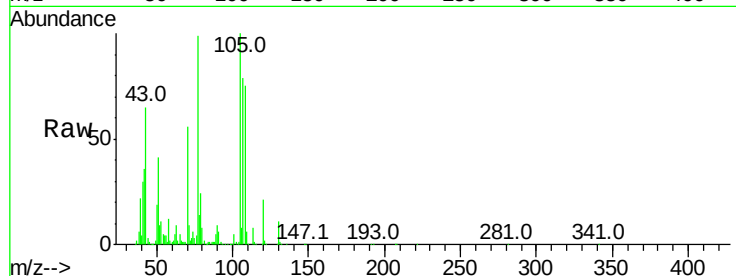




#19  
n-Nitroso-di-n-propylamine  
Concen: 47.158 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

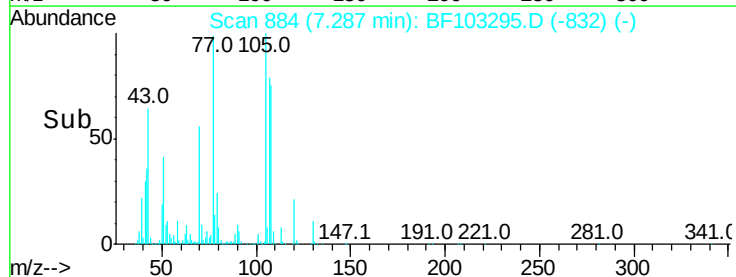
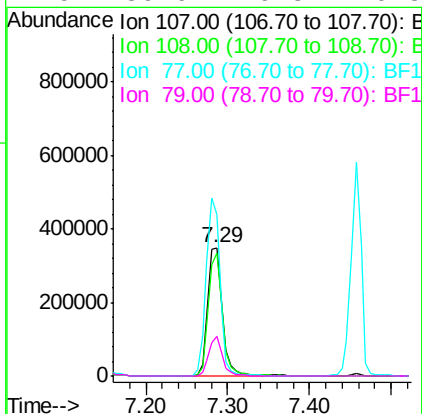
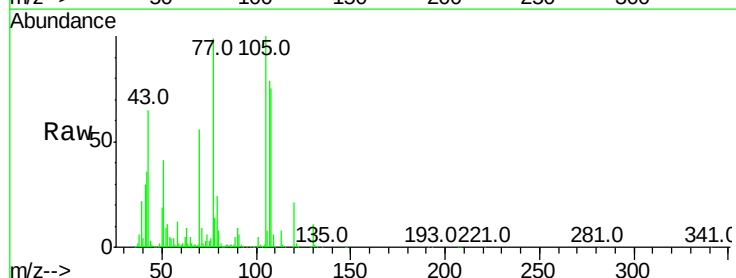
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

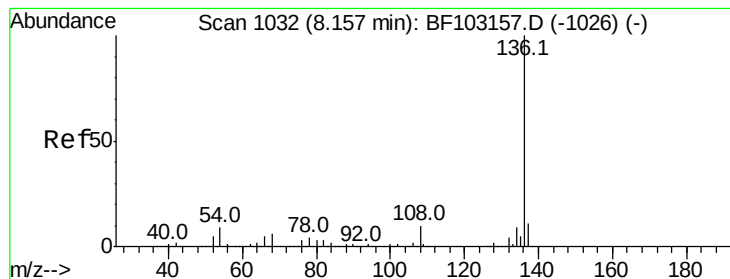
Tot Ion: 70 Resp: 301880  
Ion Ratio Lower Upper  
70 100  
42 65.1 47.5 71.3  
101 9.3 7.4 11.2  
130 19.6 16.6 25.0



#20  
3+4-Methylphenols  
Concen: 44.249 ng  
RT: 7.29 min Scan# 884  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:107 Resp: 428034  
Ion Ratio Lower Upper  
107 100  
108 95.3 68.2 108.2  
77 125.2 26.7 66.7#  
79 30.6 6.3 46.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

Tot Ion:136 Resp: 544086

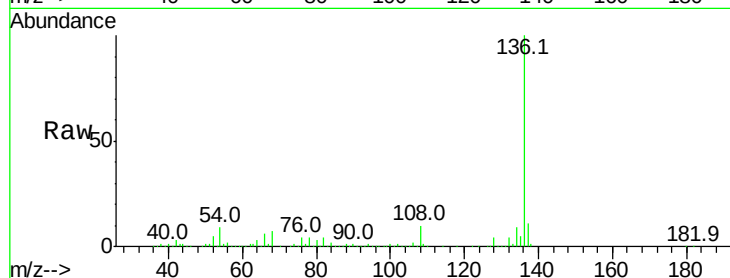
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.2 6.6 9.8

68 6.6 5.0 7.4

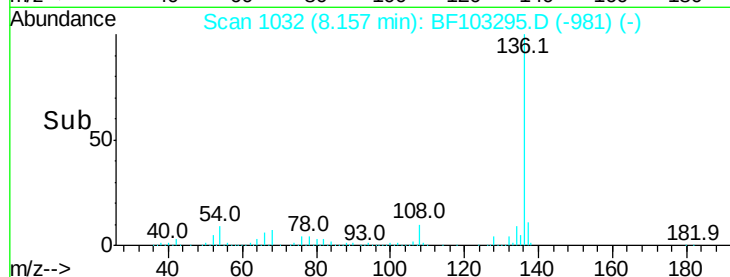


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

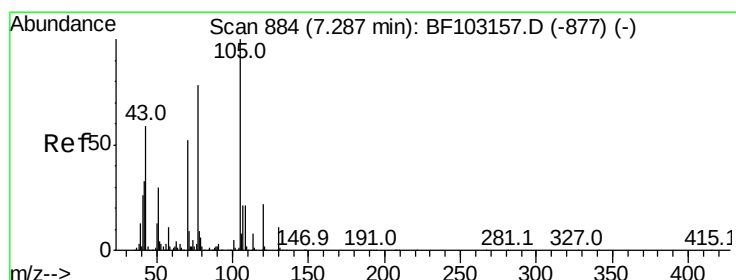
Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



Time-->

8.10 8.15 8.20



#22

Acetophenone

Concen: 44.350 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Tgt Ion:105 Resp: 563239

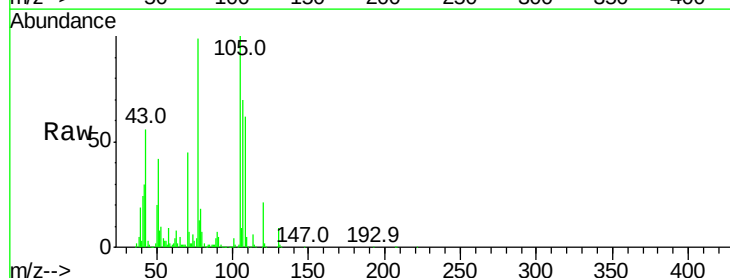
Ion Ratio Lower Upper

105 100

71 7.1 4.4 6.6#

51 42.1 22.3 33.5#

120 20.7 16.9 25.3

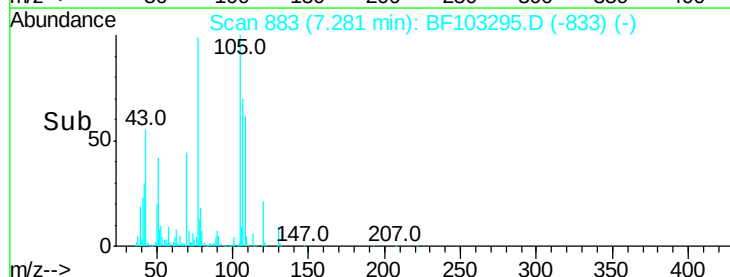


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

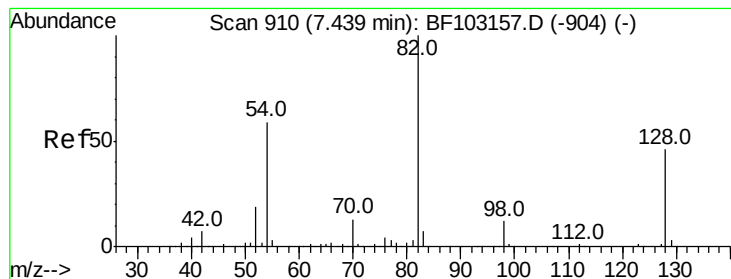
Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



Time-->

7.20 7.25 7.30 7.35



#23

Nitrobenzene-d5

Concen: 84.781 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

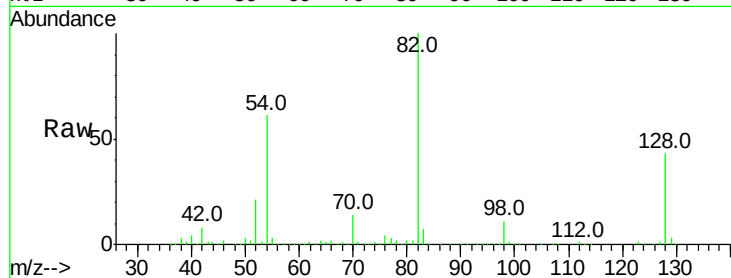
Tot Ion: 82 Resp: 807727

Ion Ratio Lower Upper

82 100

128 42.9 36.1 54.1

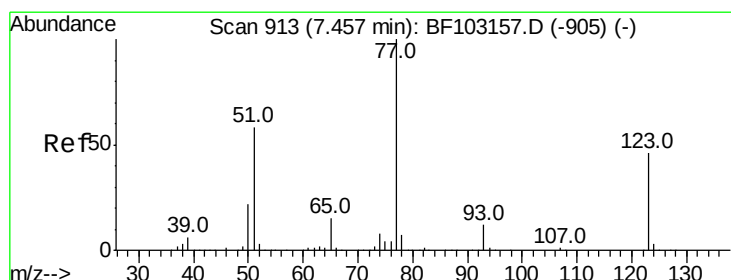
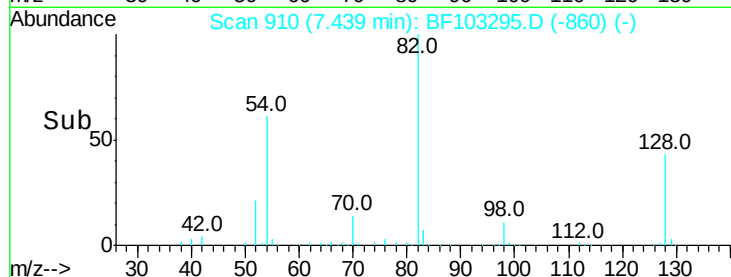
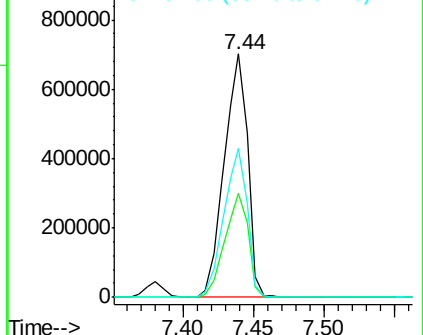
54 61.0 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#24

Nitrobenzene

Concen: 47.356 ng

RT: 7.46 min Scan# 913

Delta R.T. -0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

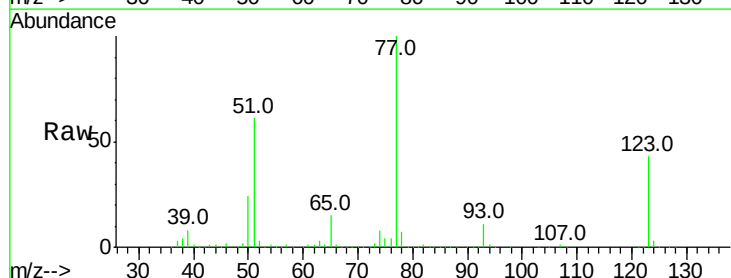
Tgt Ion: 77 Resp: 496745

Ion Ratio Lower Upper

77 100

123 43.2 37.9 56.9

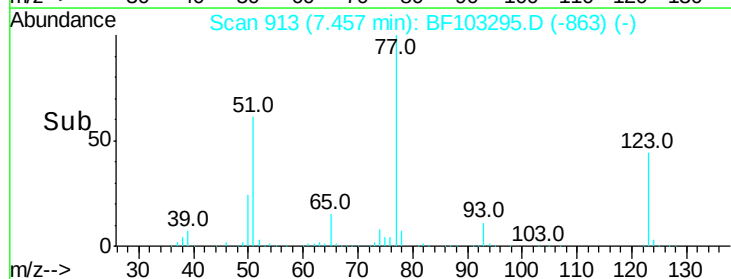
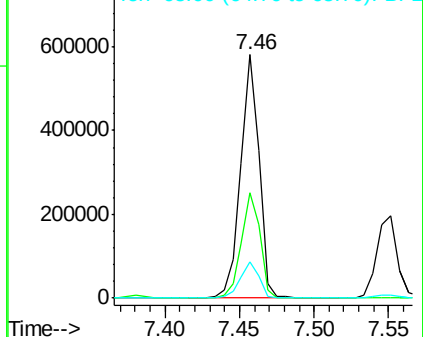
65 15.0 11.0 16.4



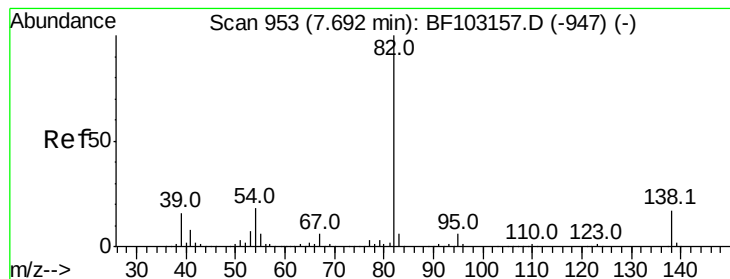
Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 123.00 (122.70 to 123.70): BF1

Ion 65.00 (64.70 to 65.70): BF1







#25

Isophorone

Concen: 48.992 ng

RT: 7.70 min Scan# 954

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

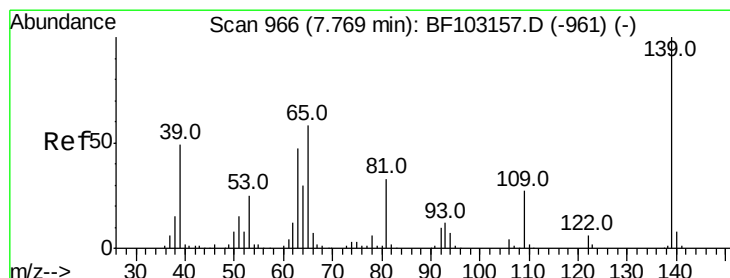
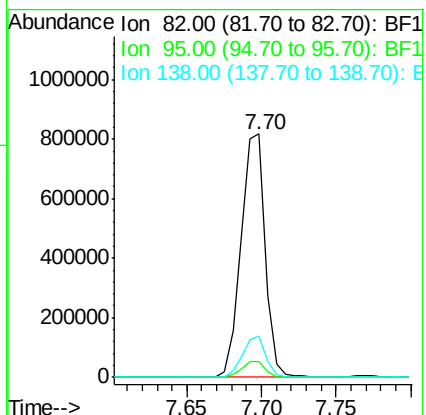
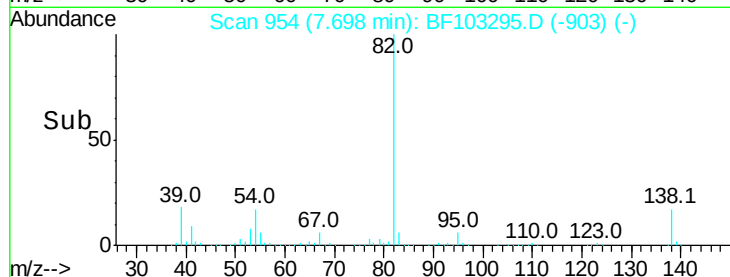
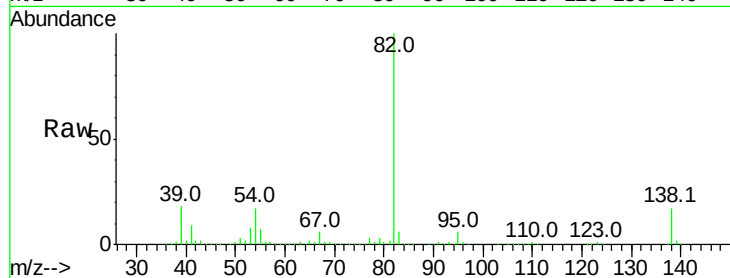
Tot Ion: 82 Resp: 919294

Ion Ratio Lower Upper

82 100

95 6.5 5.2 7.8

138 16.9 14.9 22.3



#26

2-Nitrophenol

Concen: 48.717 ng

RT: 7.77 min Scan# 967

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

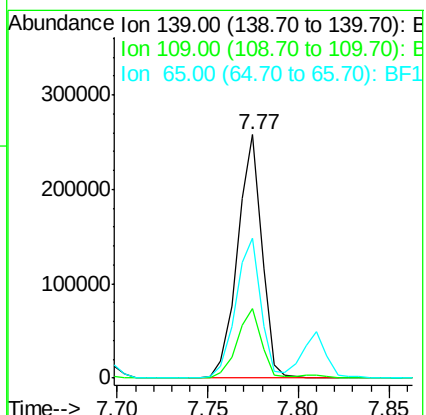
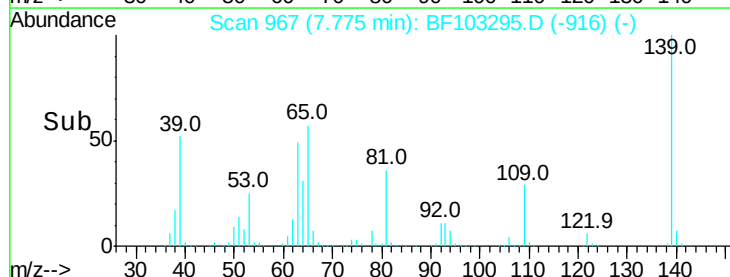
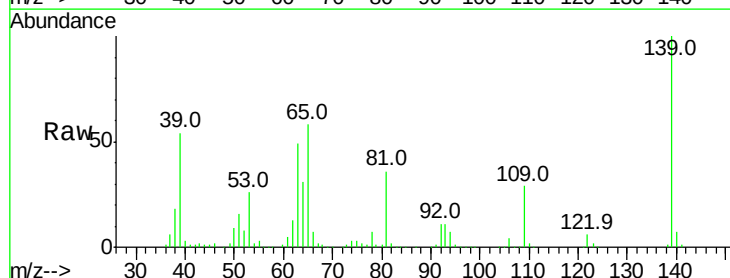
Tgt Ion: 139 Resp: 240570

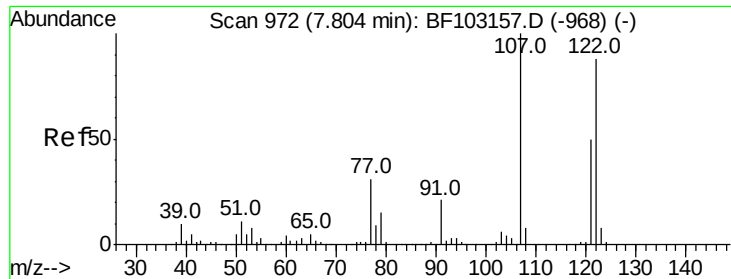
Ion Ratio Lower Upper

139 100

109 28.5 22.7 34.1

65 57.7 40.5 60.7

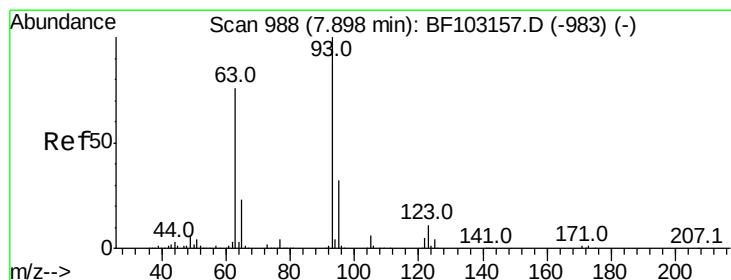
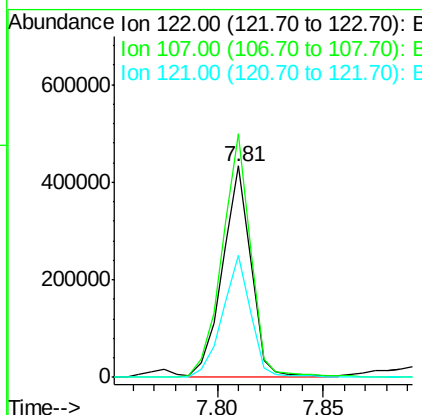
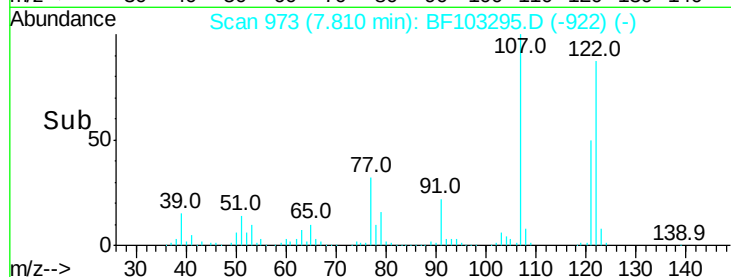
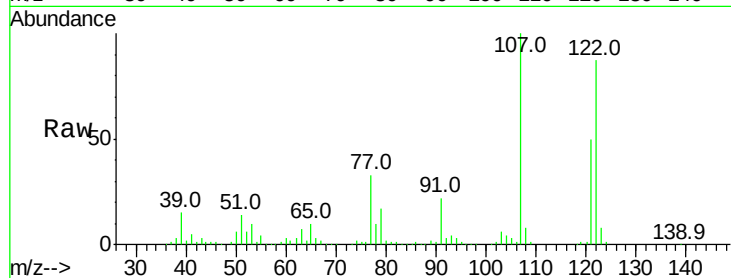




#27  
 2,4-Dimethylphenol  
 Concen: 53.404 ng  
 RT: 7.81 min Scan# 973  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

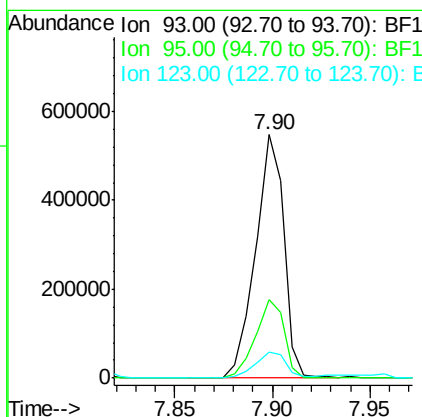
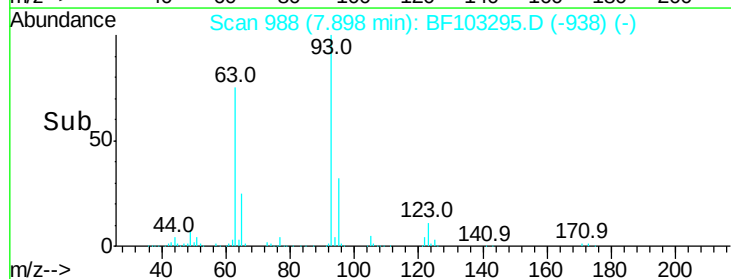
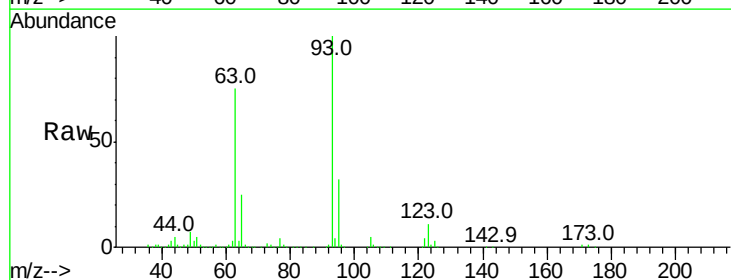
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

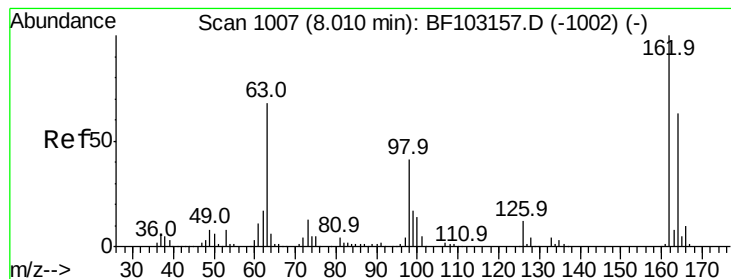
Tot Ion:122 Resp: 403091  
 Ion Ratio Lower Upper  
 122 100  
 107 115.1 91.2 136.8  
 121 57.8 47.2 70.8



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 49.974 ng  
 RT: 7.90 min Scan# 988  
 Delta R.T. -0.01 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Tgt Ion: 93 Resp: 551318  
 Ion Ratio Lower Upper  
 93 100  
 95 32.1 26.3 39.5  
 123 10.8 9.8 14.6





#29

2,4-Dichlorophenol

Concen: 49.235 ng

RT: 8.02 min Scan# 1008

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

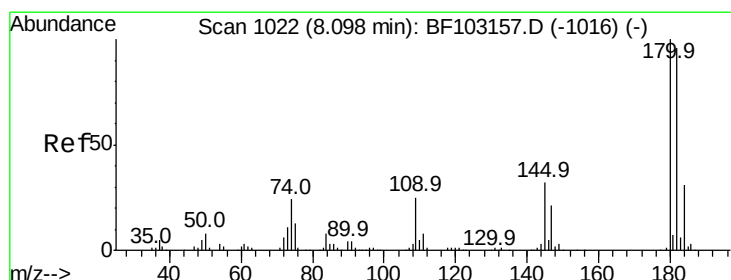
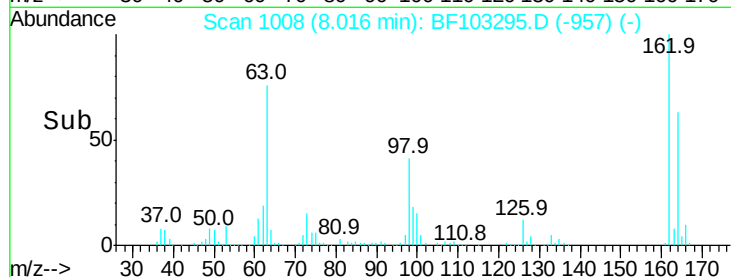
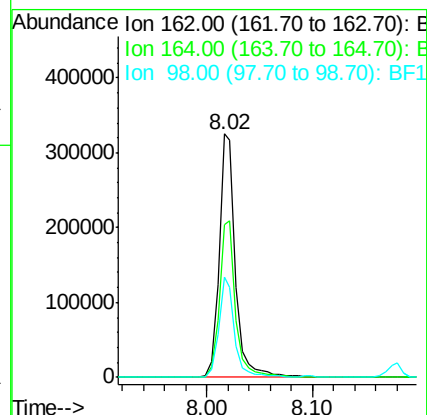
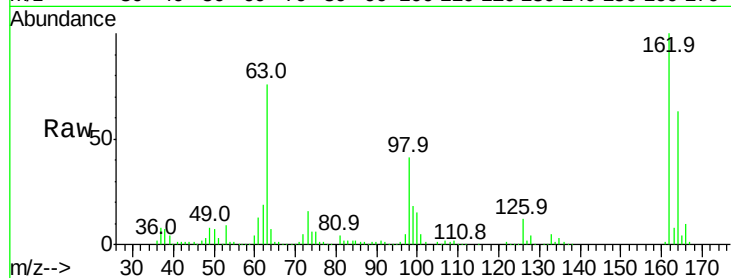
Tot Ion:162 Resp: 355799

Ion Ratio Lower Upper

162 100

164 62.9 42.7 82.7

98 40.9 18.1 58.1



#30

1,2,4-Trichlorobenzene

Concen: 43.750 ng

RT: 8.10 min Scan# 1022

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

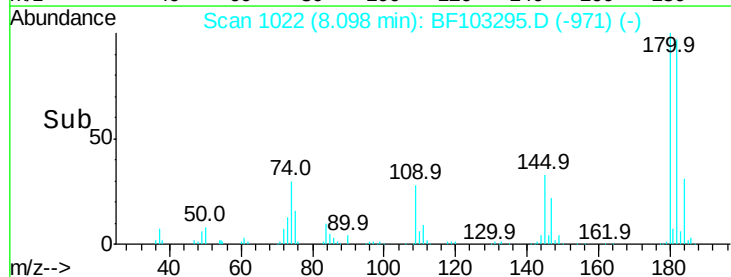
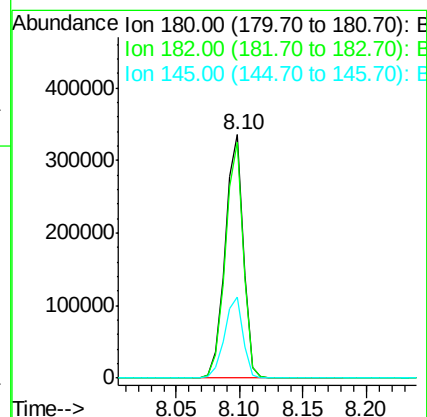
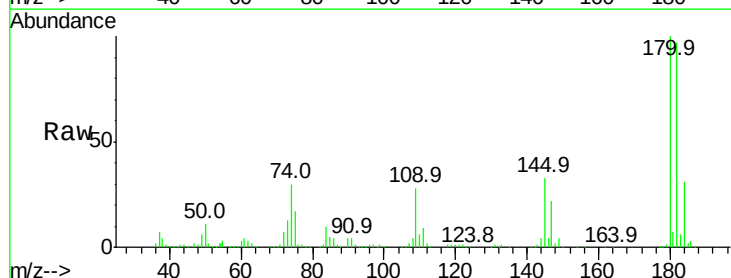
Tgt Ion:180 Resp: 336680

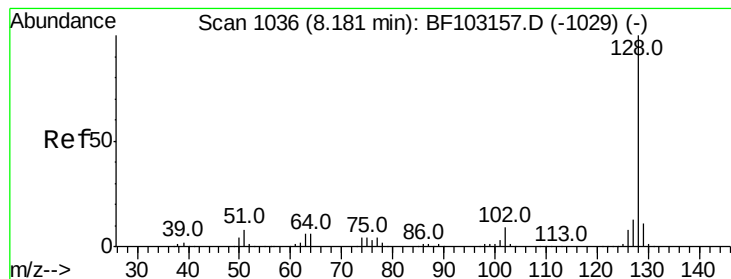
Ion Ratio Lower Upper

180 100

182 96.9 76.8 115.2

145 33.1 26.5 39.7





#31

Naphthalene

Concen: 45.183 ng

RT: 8.18 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

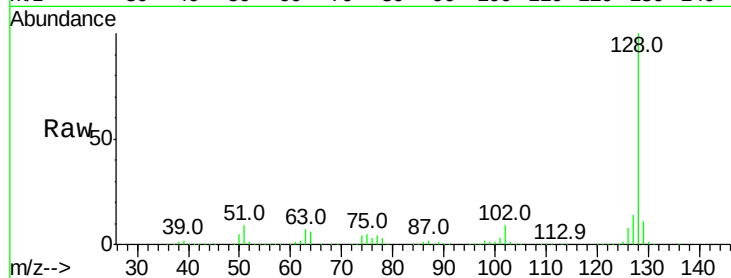
Tot Ion:128 Resp: 1203546

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

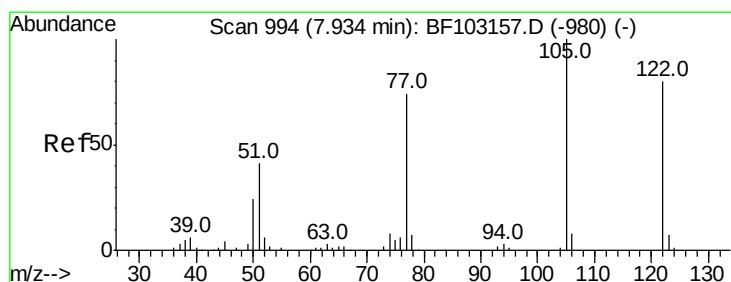
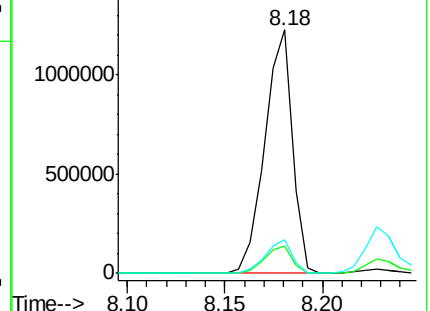
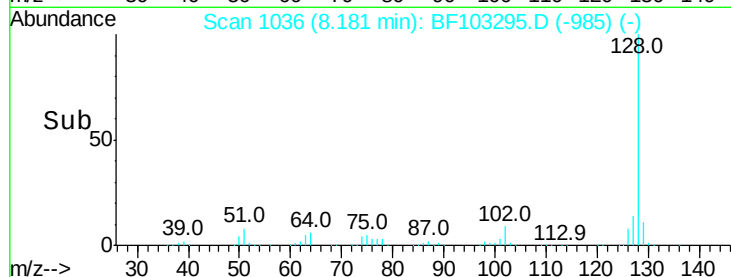
127 13.6 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 51.613 ng

RT: 7.96 min Scan# 998

Delta R.T. 0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

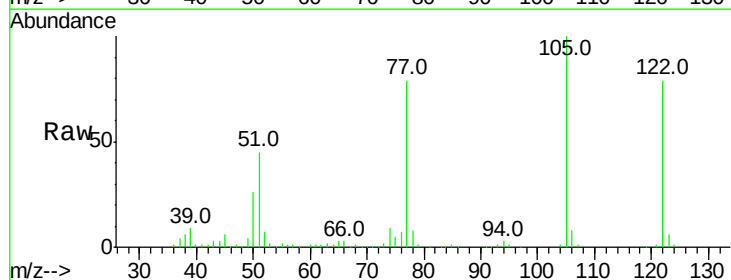
Tgt Ion:122 Resp: 292426

Ion Ratio Lower Upper

122 100

105 125.9 101.1 141.1

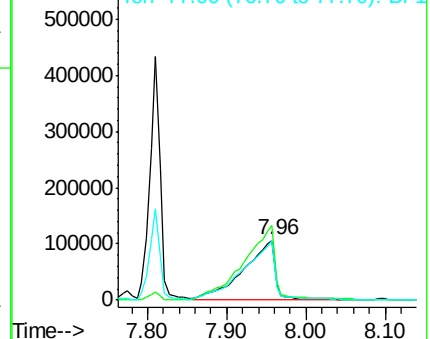
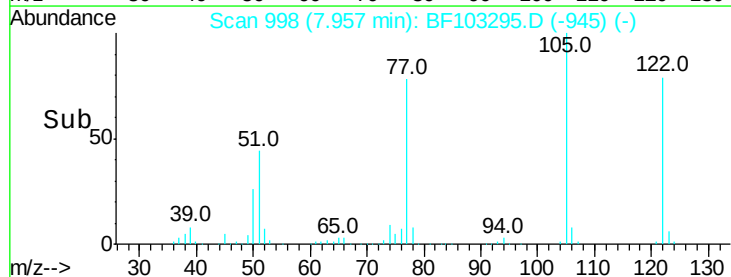
77 99.6 70.7 110.7

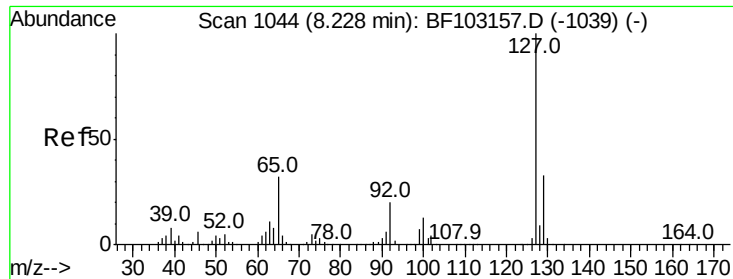


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

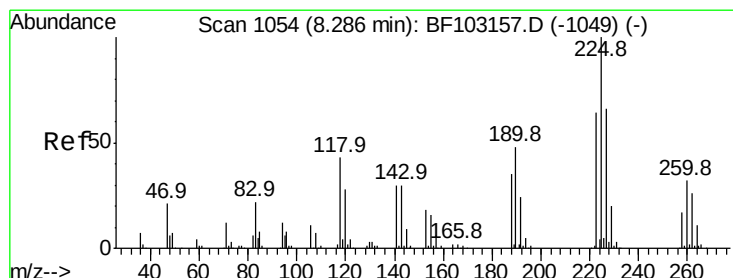
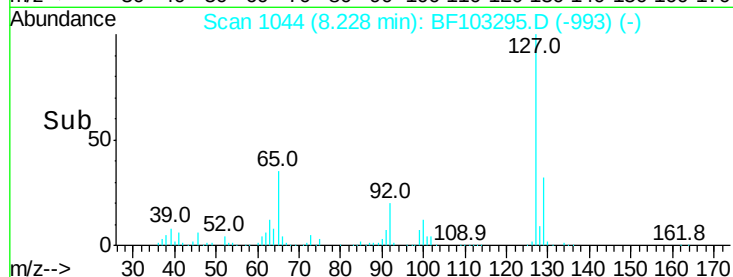
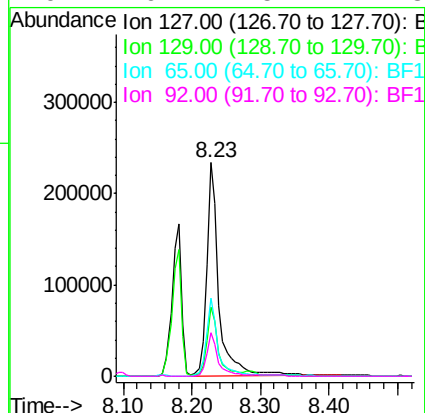
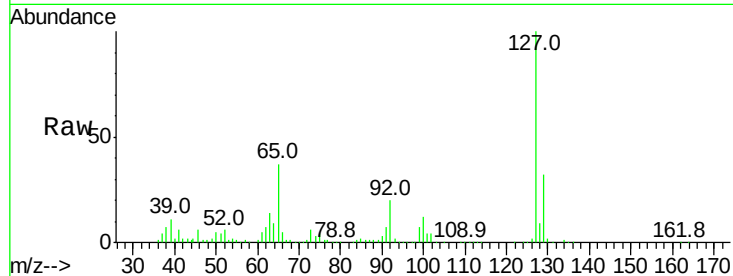




#33  
4-Chloroaniline  
Concen: 25.868 ng  
RT: 8.23 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

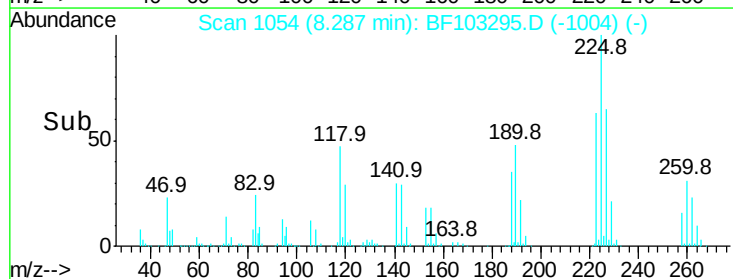
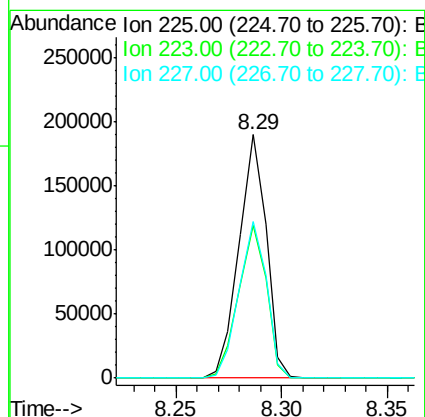
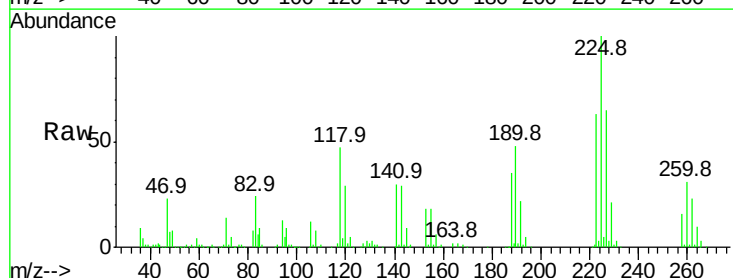
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

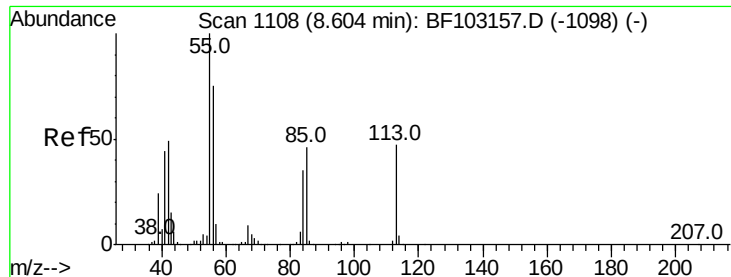
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 127   | Resp: | 297345 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 32.4  | 25.9  | 38.9   |
| 65       | 36.8  | 25.0  | 37.4   |
| 92       | 20.1  | 15.2  | 22.8   |



#34  
Hexachlorobutadiene  
Concen: 42.438 ng  
RT: 8.29 min Scan# 1054  
Delta R.T. -0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 170062 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 62.6  | 50.6  | 76.0   |
| 227      | 64.5  | 51.9  | 77.9   |

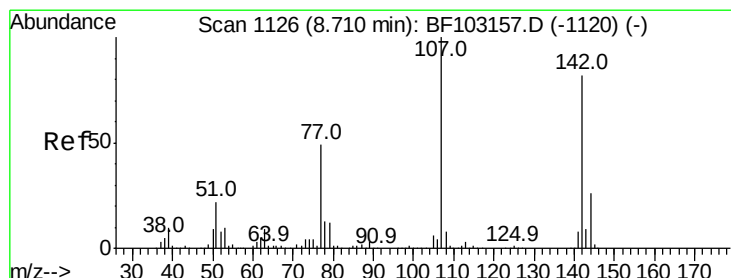
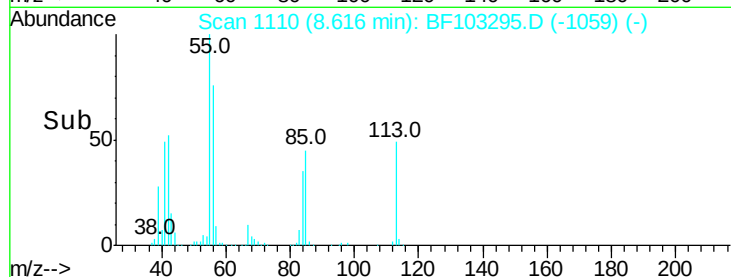
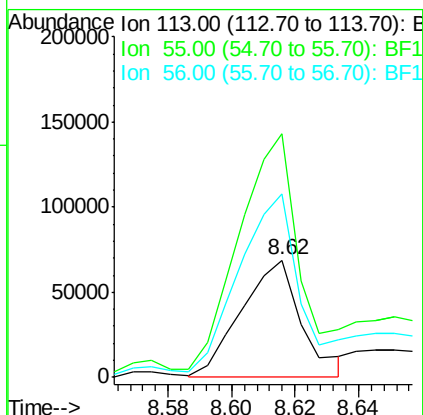
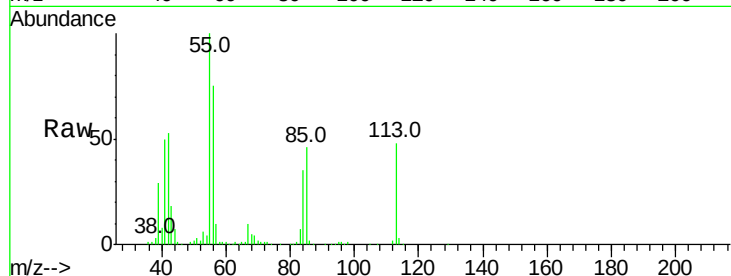




#35  
Caprolactam  
Concen: 35.636 ng  
RT: 8.62 min Scan# 1110  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

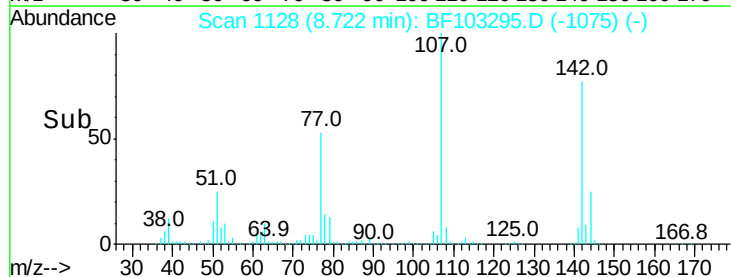
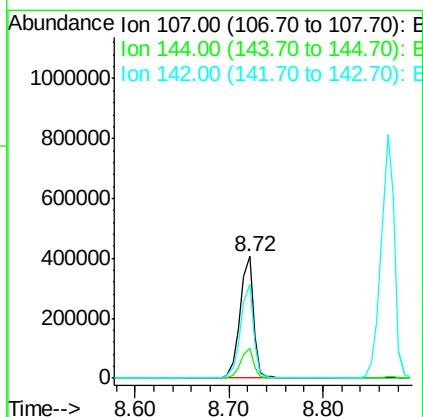
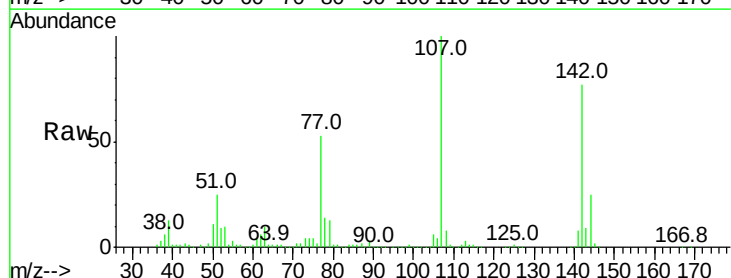
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

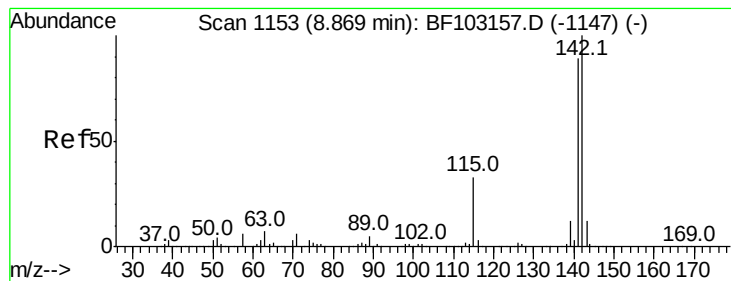
Tot Ion:113 Resp: 90507  
Ion Ratio Lower Upper  
113 100  
55 207.8 163.3 203.3#  
56 156.6 115.7 155.7#



#36  
4-Chloro-3-methylphenol  
Concen: 49.960 ng  
RT: 8.72 min Scan# 1128  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:107 Resp: 407218  
Ion Ratio Lower Upper  
107 100  
144 25.0 20.5 30.7  
142 77.4 62.0 93.0





#37

2-Methylnaphthalene

Concen: 46.423 ng

RT: 8.87 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

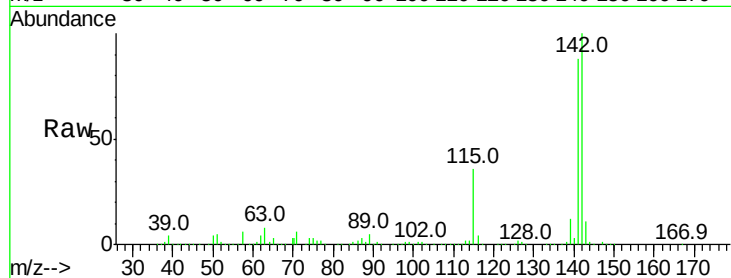
Tot Ion:142 Resp: 799179

Ion Ratio Lower Upper

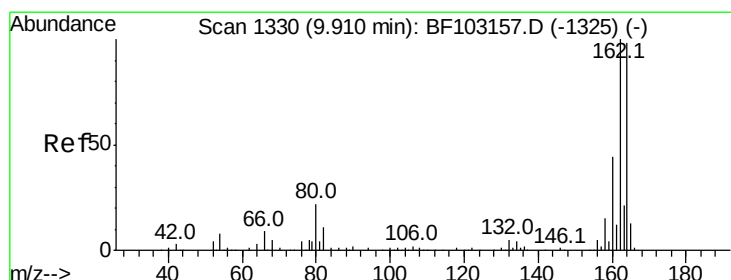
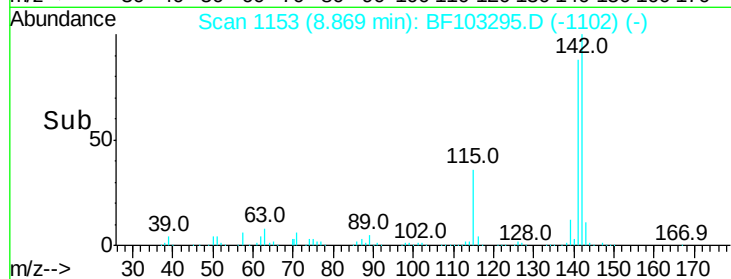
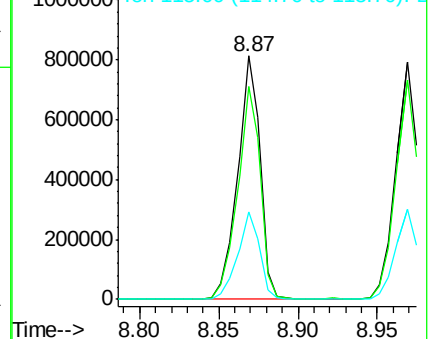
142 100

141 87.5 70.8 106.2

115 35.7 26.1 39.1



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

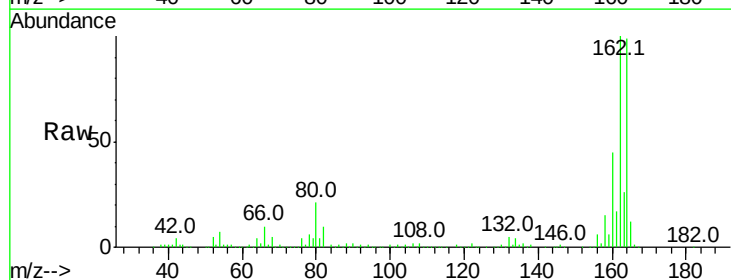
Tgt Ion:164 Resp: 255314

Ion Ratio Lower Upper

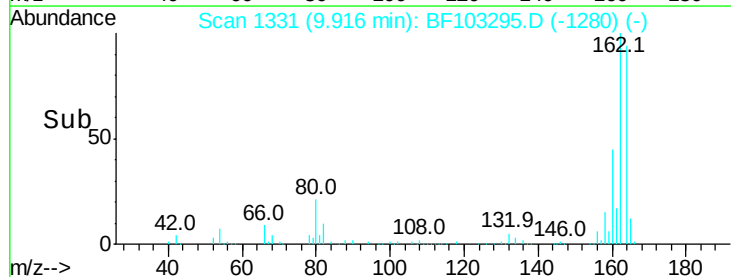
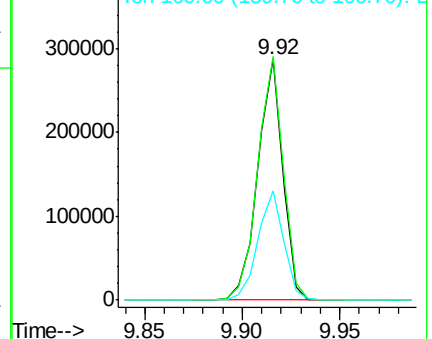
164 100

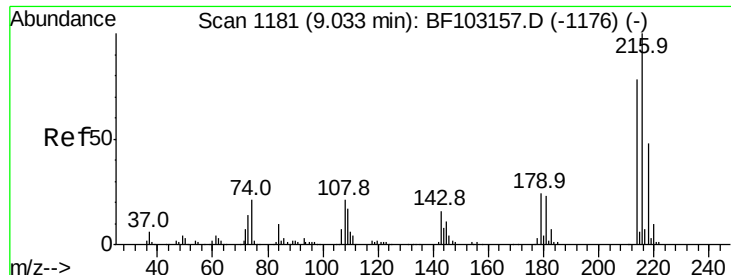
162 101.2 86.1 129.1

160 45.5 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

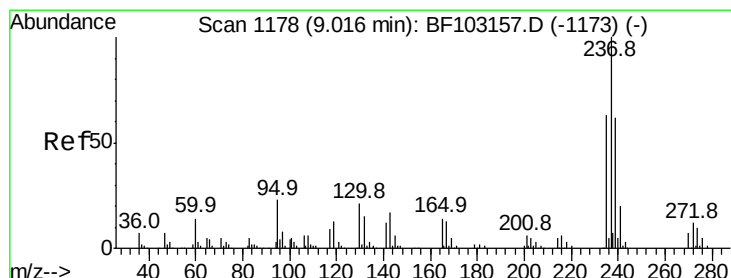
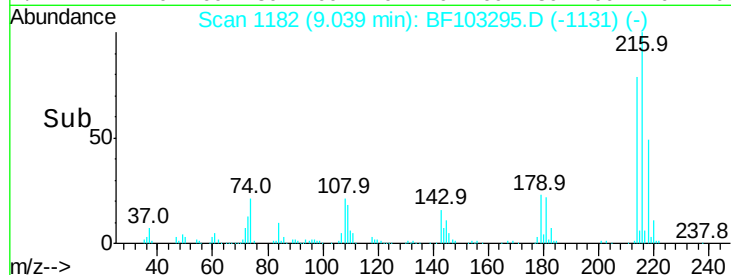
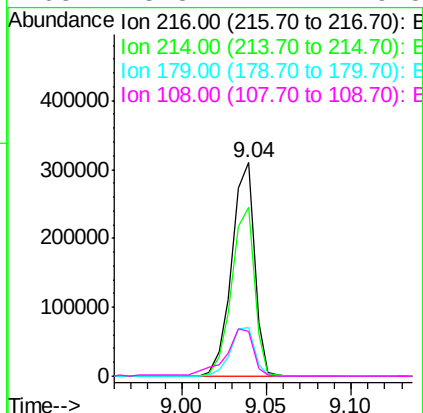
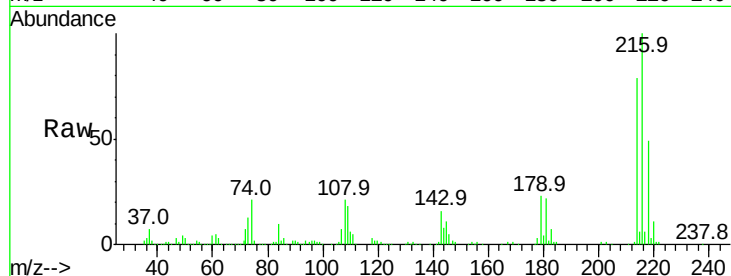




#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 41.615 ng  
 RT: 9.04 min Scan# 1182  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

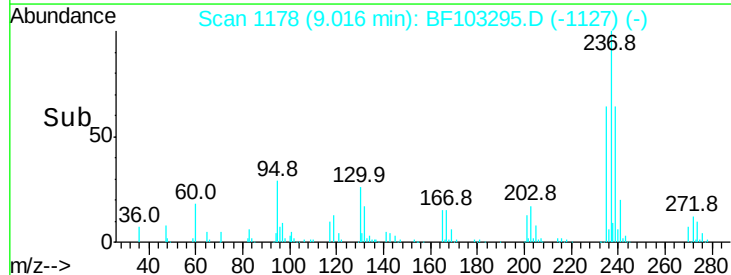
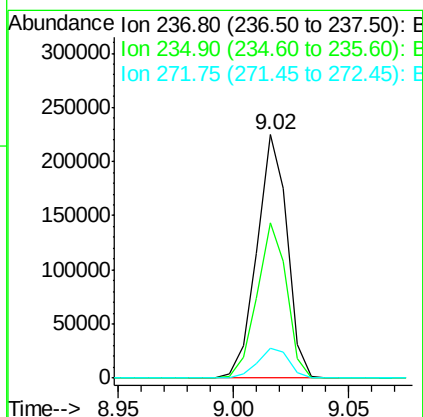
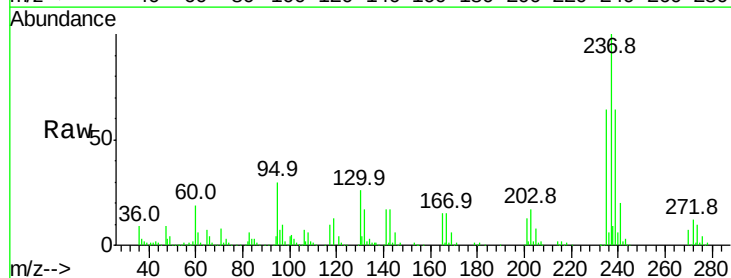
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 216   | Resp: | 290466 |
| Ion      | Ratio | Lower | Upper  |
| 216      | 100   |       |        |
| 214      | 79.6  | 63.0  | 94.4   |
| 179      | 23.6  | 18.1  | 27.1   |
| 108      | 28.3  | 17.2  | 25.8#  |

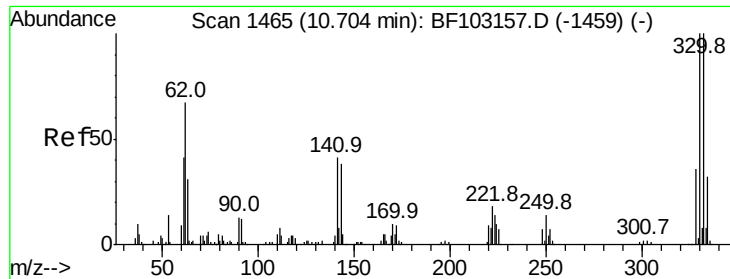


#40  
 Hexachlorocyclopentadiene  
 Concen: 83.045 ng  
 RT: 9.02 min Scan# 1178  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 237   | Resp: | 205247 |
| Ion      | Ratio | Lower | Upper  |
| 237      | 100   |       |        |
| 235      | 63.6  | 44.8  | 84.8   |
| 272      | 12.4  | 0.0   | 33.3   |



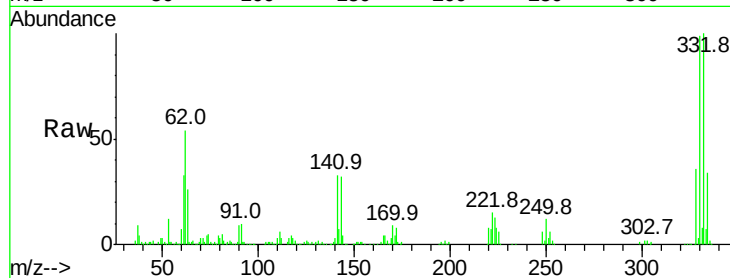




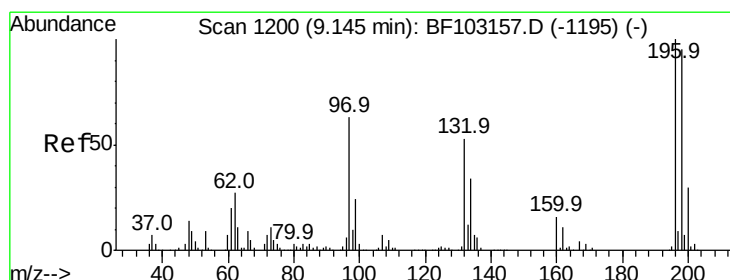
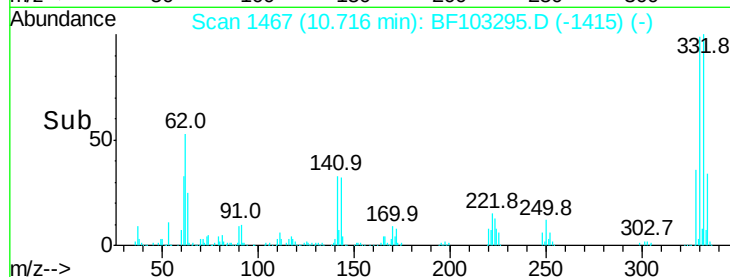
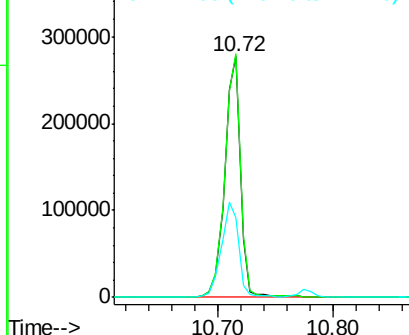
#41  
 2,4,6-Tribromophenol  
 Concen: 121.676 ng  
 RT: 10.72 min Scan# 1467  
 Delta R.T. 0.01 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

Tot Ion:330 Resp: 262954  
 Ion Ratio Lower Upper  
 330 100  
 332 101.9 77.0 115.6  
 141 43.4 29.9 44.9

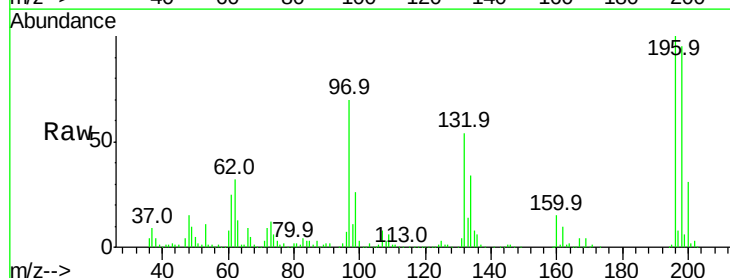


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

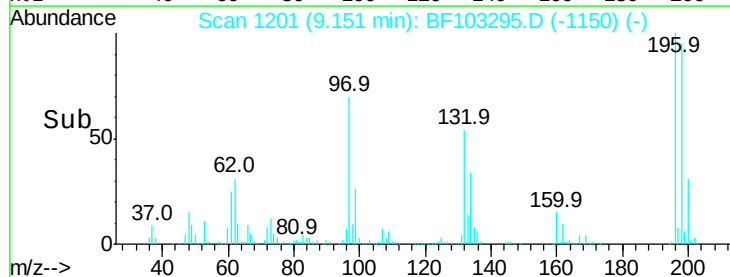
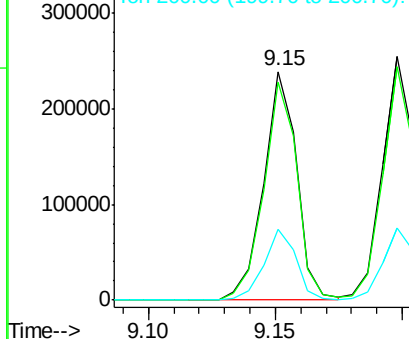


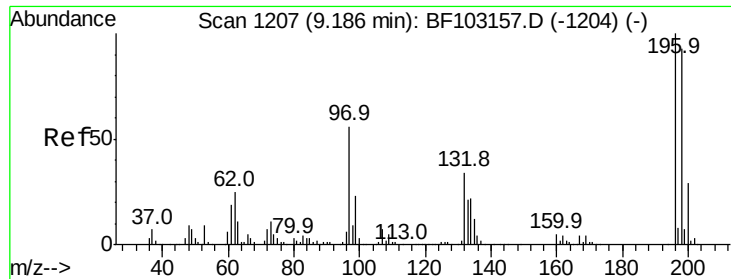
#42  
 2,4,6-Trichlorophenol  
 Concen: 46.830 ng  
 RT: 9.15 min Scan# 1201  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Tgt Ion:196 Resp: 219939  
 Ion Ratio Lower Upper  
 196 100  
 198 95.4 75.7 113.5  
 200 30.9 24.5 36.7



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

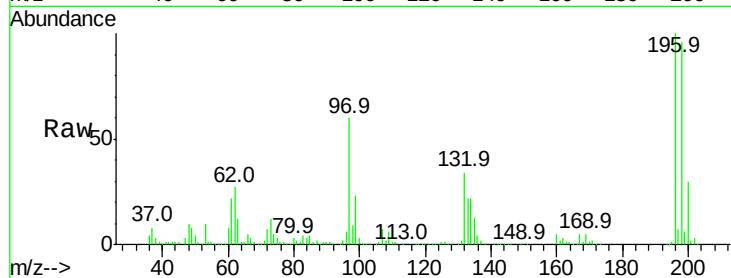




#43  
 2,4,5-Trichlorophenol  
 Concen: 44.114 ng  
 RT: 9.20 min Scan# 1209  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 238289 |       |       |
| 198     | 96.0  |        | 74.6  | 112.0 |
| 97      | 59.6  |        | 42.9  | 64.3  |
| 132     | 33.8  |        | 26.3  | 39.5  |



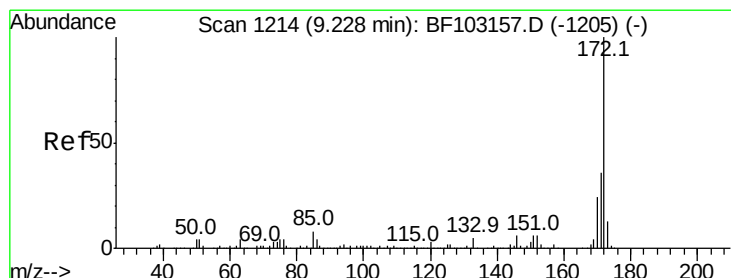
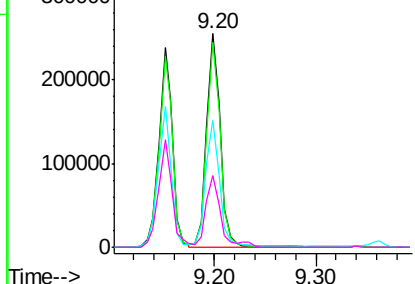
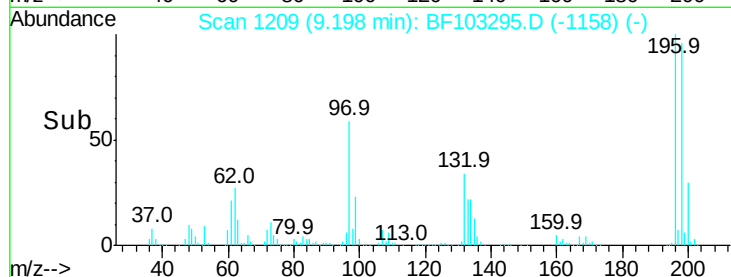
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

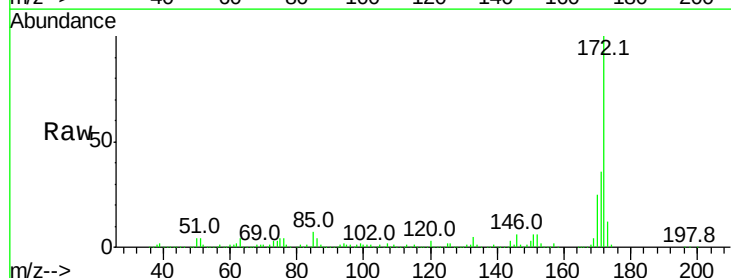
Ion 97.00 (96.70 to 97.70): BF1

Ion 132.00 (131.70 to 132.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 79.401 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1195567 |       |       |
| 171     | 35.8  |         | 29.7  | 44.5  |
| 170     | 24.8  |         | 19.6  | 29.4  |

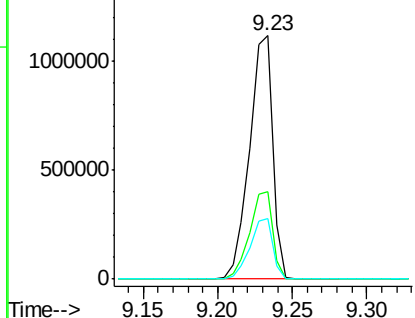
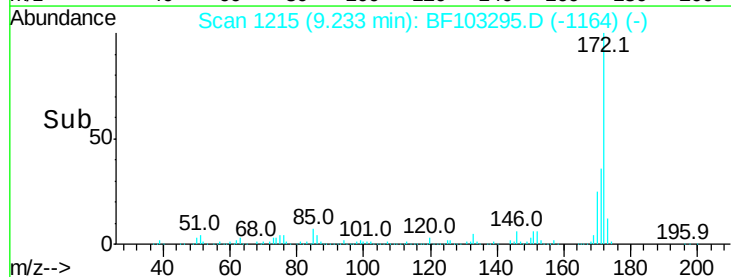


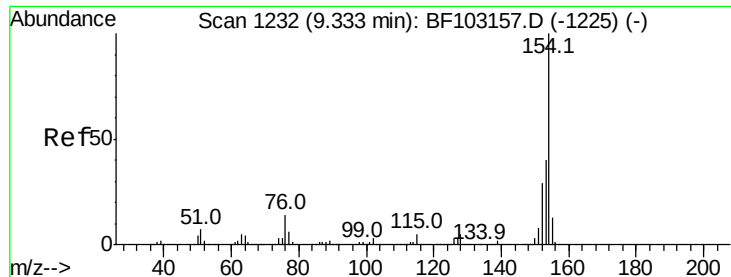
Abundance

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

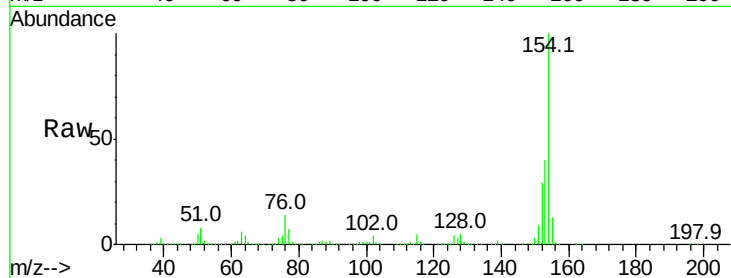




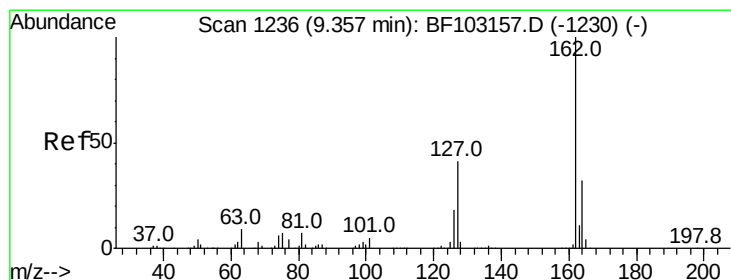
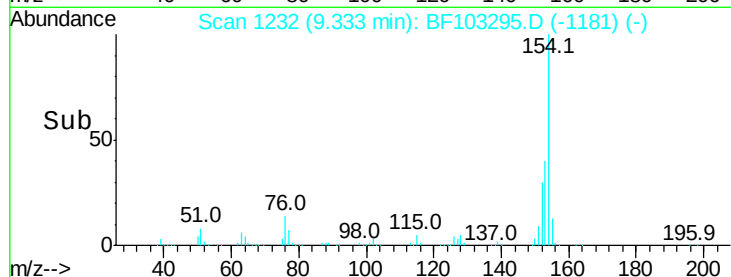
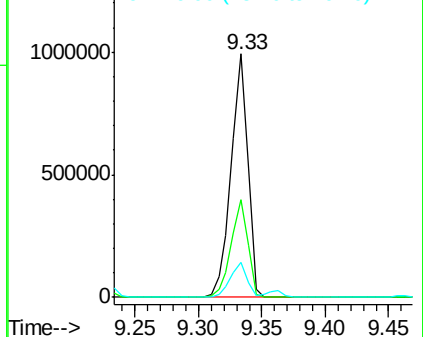
#45  
 1,1'-Biphenyl  
 Concen: 42.309 ng  
 RT: 9.33 min Scan# 1232  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.4  | 21.3  | 61.3  |
| 76      | 14.5  | 0.0   | 34.0  |

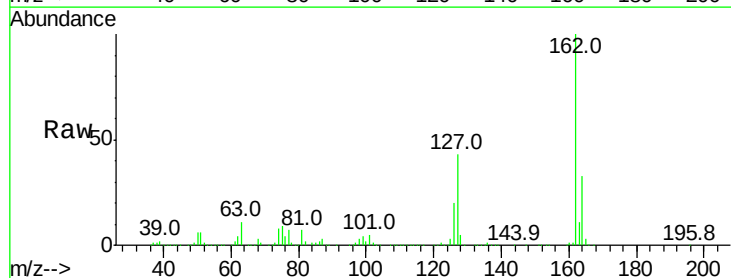


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF1

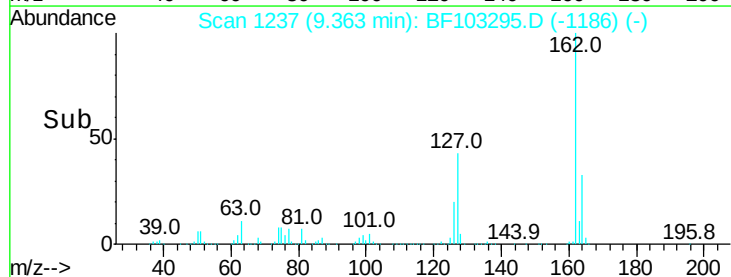
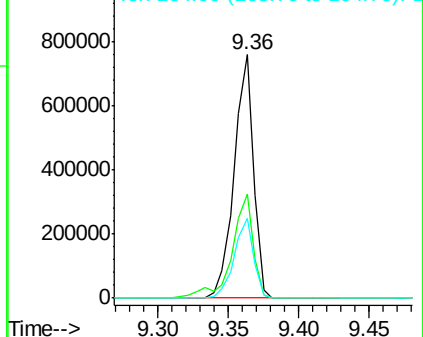


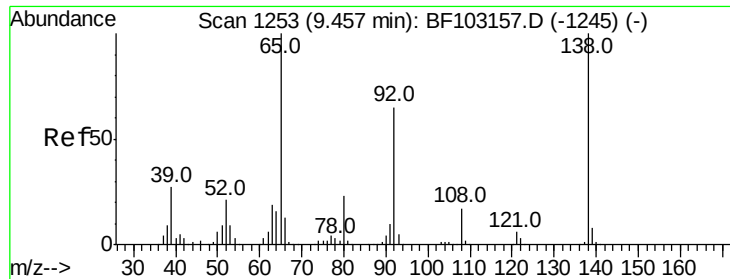
#46  
 2-Chloronaphthalene  
 Concen: 42.661 ng  
 RT: 9.36 min Scan# 1237  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 42.6  | 33.9  | 50.9  |
| 164     | 32.9  | 26.5  | 39.7  |



Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 127.00 (126.70 to 127.70): E  
 Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 48.712 ng

RT: 9.46 min Scan# 1254

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

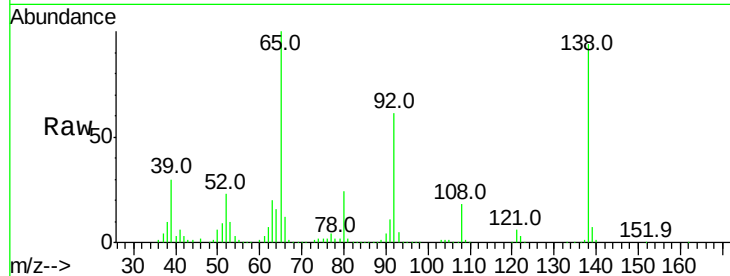
Tot Ion: 65 Resp: 305400

Ion Ratio Lower Upper

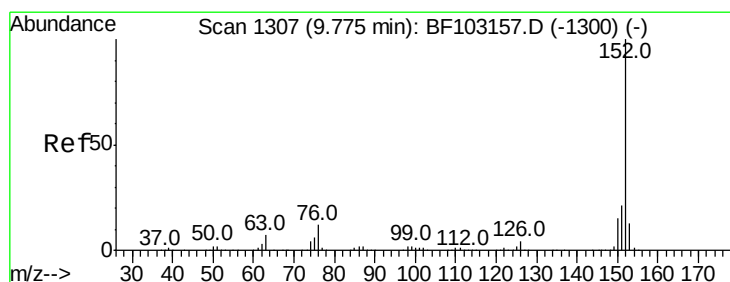
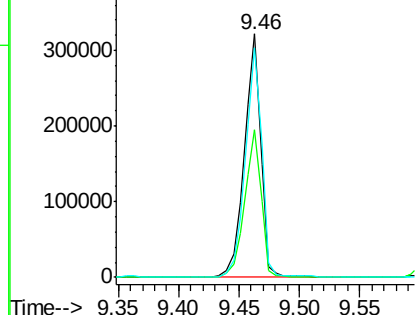
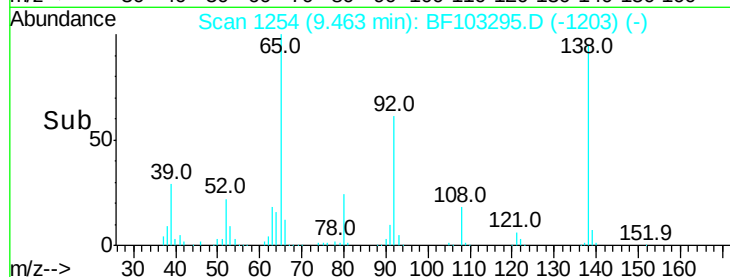
65 100

92 60.6 55.8 83.6

138 94.2 91.2 136.8



Abundance Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#48

Acenaphthylene

Concen: 42.626 ng

RT: 9.78 min Scan# 1308

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

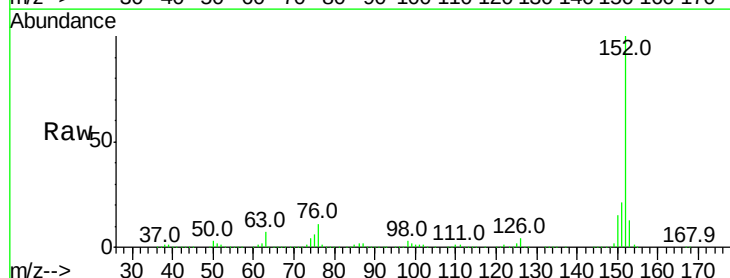
Tgt Ion: 152 Resp: 1110047

Ion Ratio Lower Upper

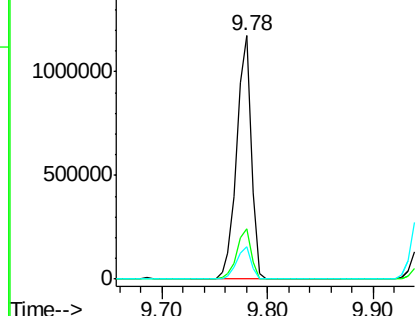
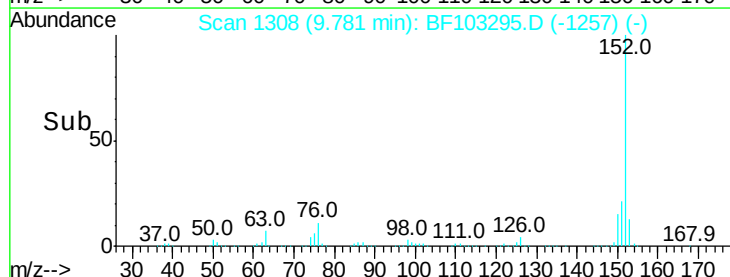
152 100

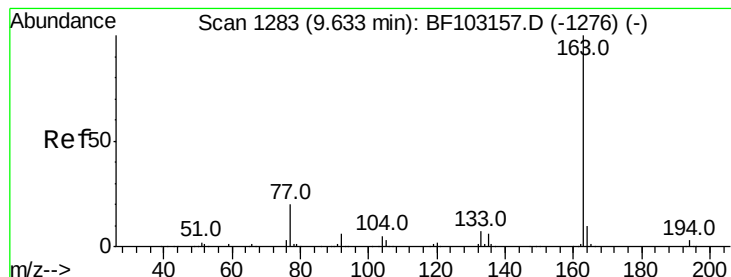
151 20.6 16.3 24.5

153 13.2 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: 43.934 ng

RT: 9.63 min Scan# 1283

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

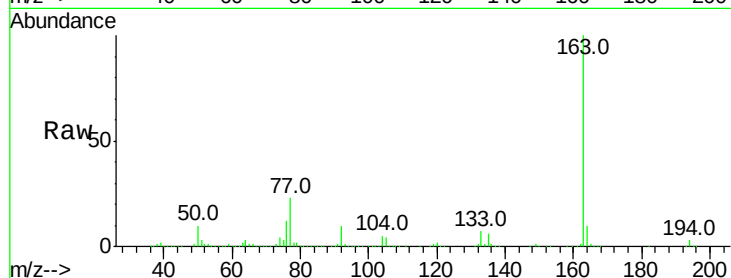
Tot Ion:163 Resp: 899851

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

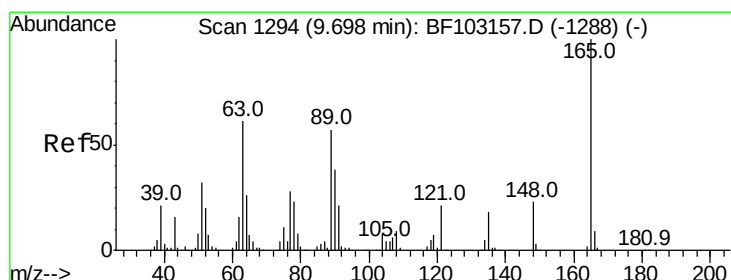
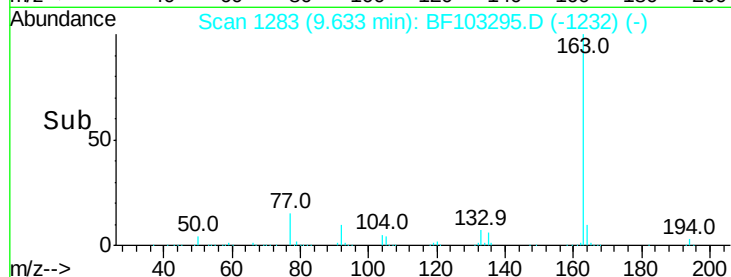
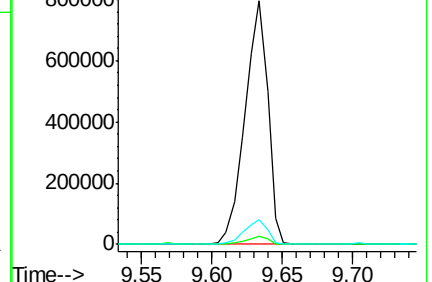
164 10.3 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 44.967 ng

RT: 9.70 min Scan# 1295

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

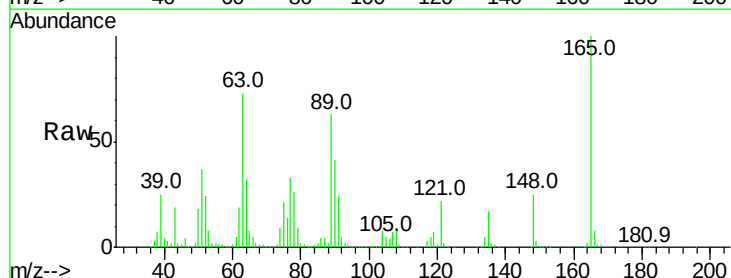
Tgt Ion:165 Resp: 193277

Ion Ratio Lower Upper

165 100

63 72.7 44.7 67.1#

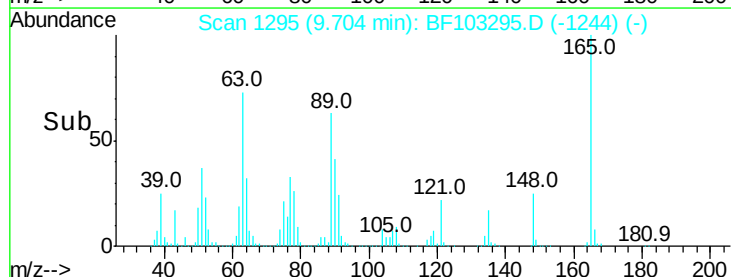
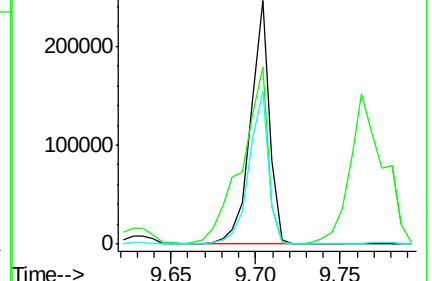
89 62.8 44.0 66.0

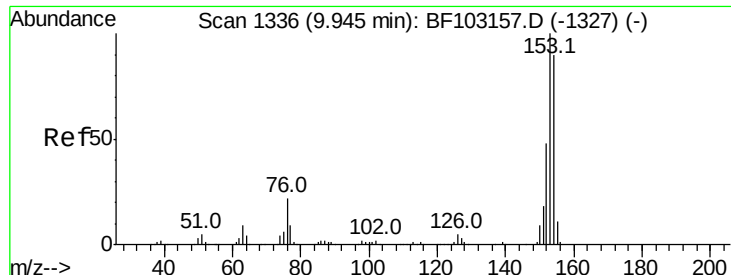


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 42.326 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

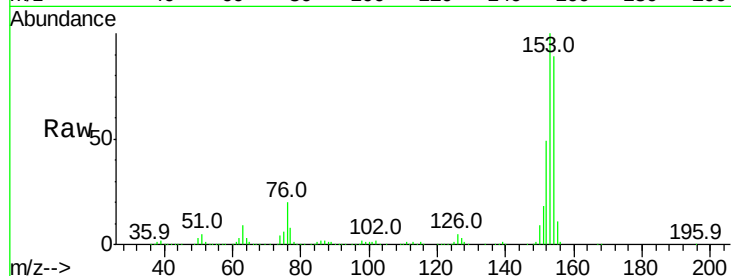
Tot Ion:154 Resp: 642736

Ion Ratio Lower Upper

154 100

153 112.4 91.2 136.8

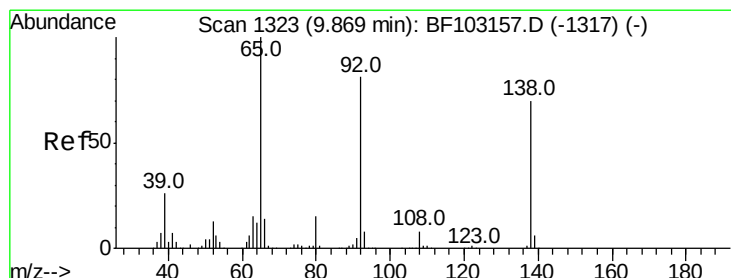
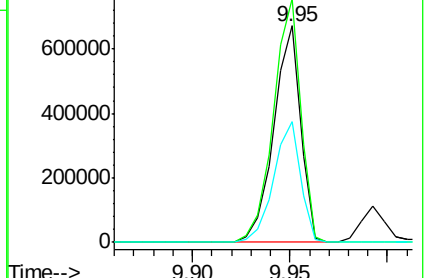
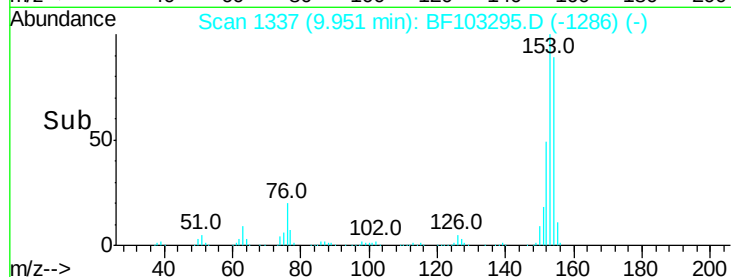
152 55.6 43.8 65.8



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



#52

3-Nitroaniline

Concen: 30.836 ng

RT: 9.87 min Scan# 1324

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

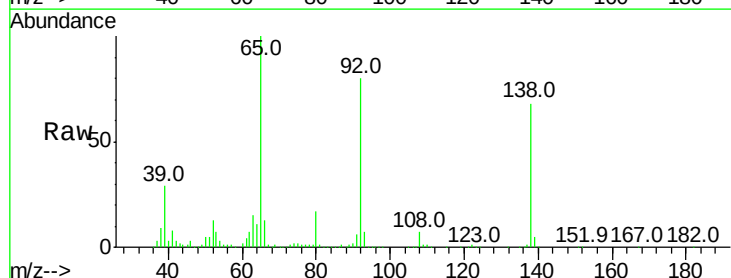
Tgt Ion:138 Resp: 168156

Ion Ratio Lower Upper

138 100

108 10.6 9.4 14.0

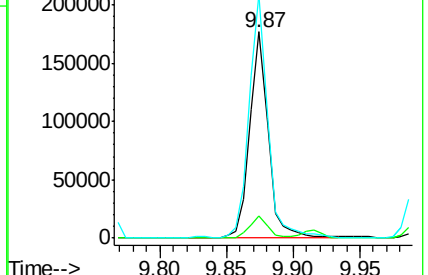
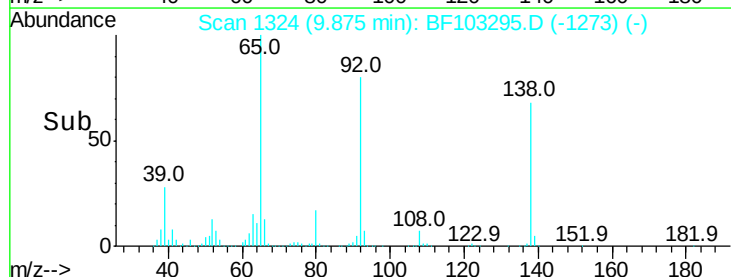
92 118.0 89.4 134.2

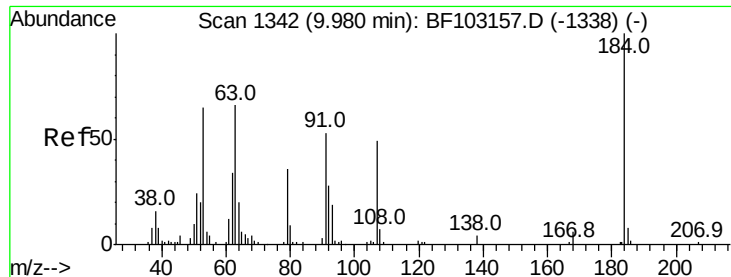


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1

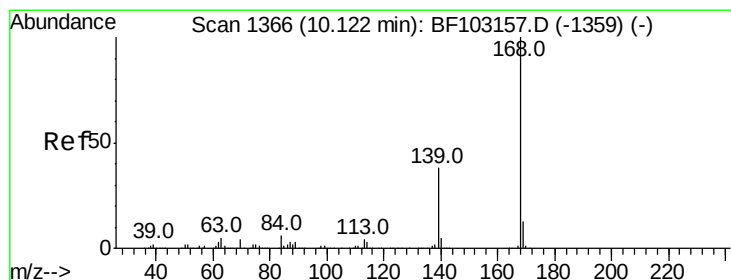
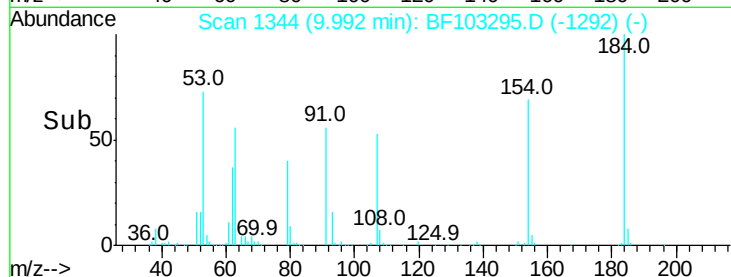
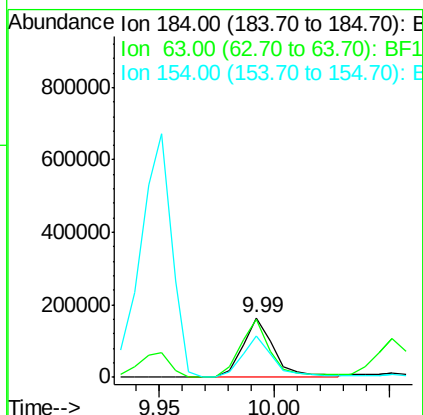
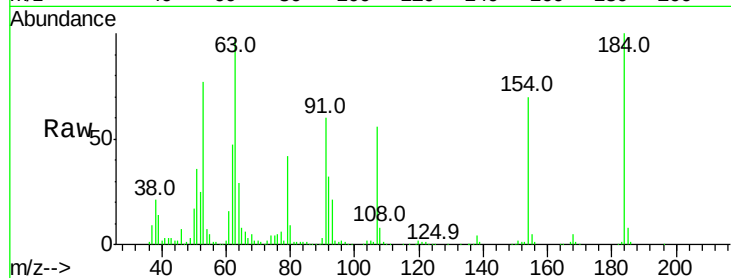




#53  
2,4-Dinitrophenol  
Concen: 97.844 ng  
RT: 9.99 min Scan# 1344  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

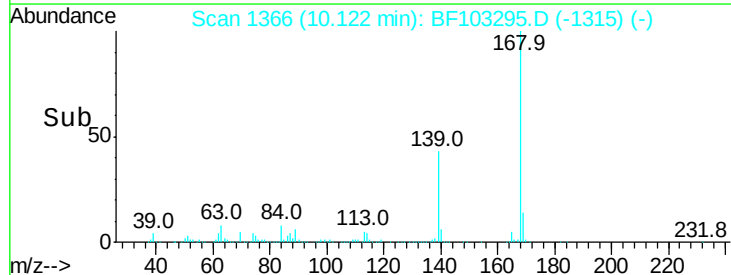
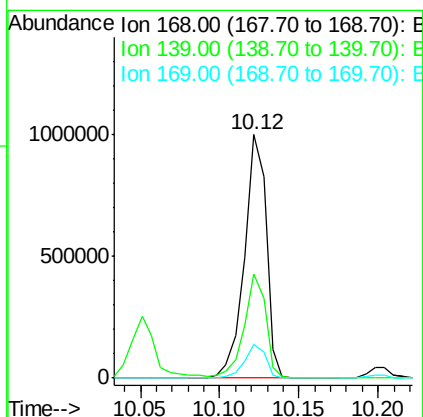
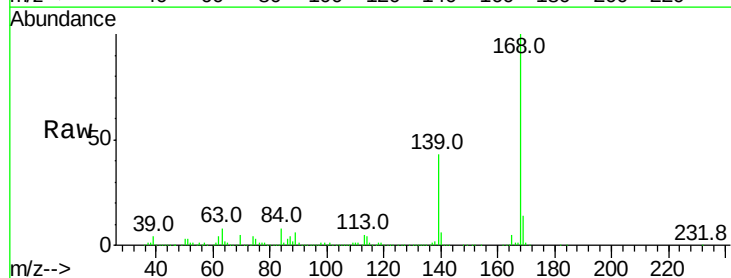
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

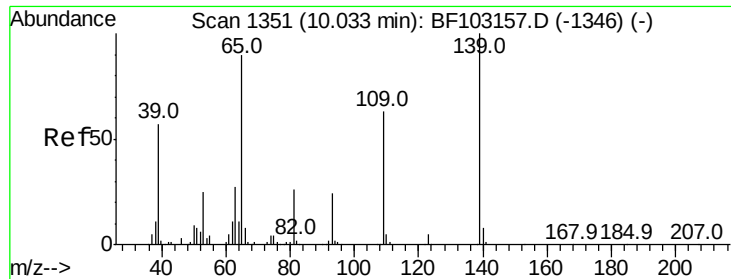
Tot Ion:184 Resp: 155694  
Ion Ratio Lower Upper  
184 100  
63 96.7 54.2 81.2#  
154 69.7 184.0 276.0#



#54  
Dibenzofuran  
Concen: 45.538 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:168 Resp: 949251  
Ion Ratio Lower Upper  
168 100  
139 42.8 30.1 45.1  
169 13.7 10.9 16.3

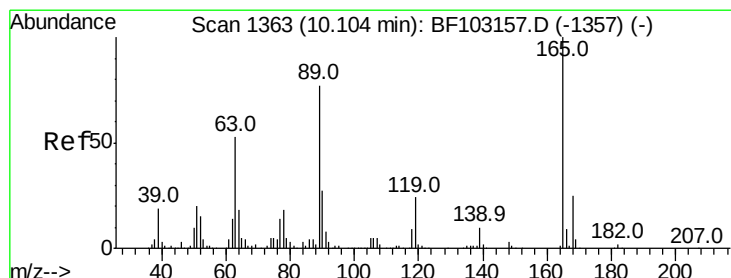
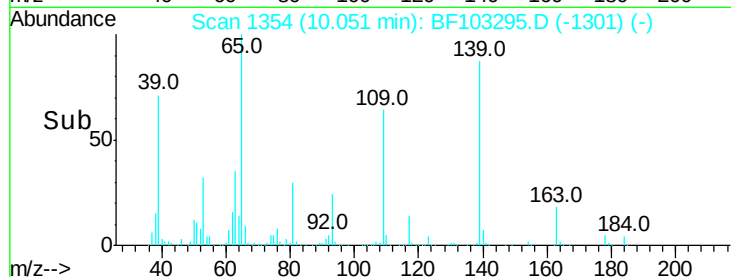
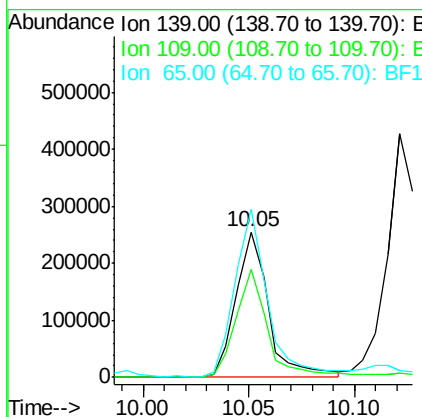
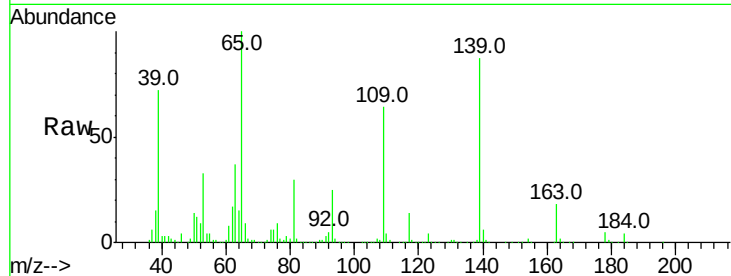




#55  
4-Nitrophenol  
Concen: 80.866 ng  
RT: 10.05 min Scan# 1354  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

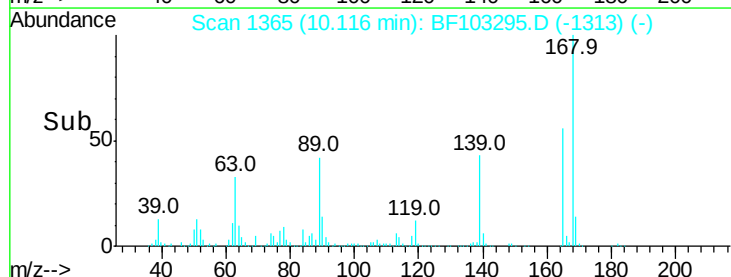
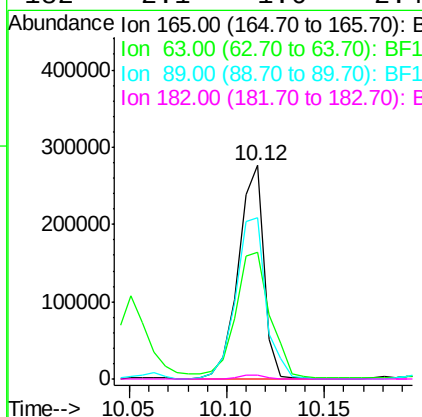
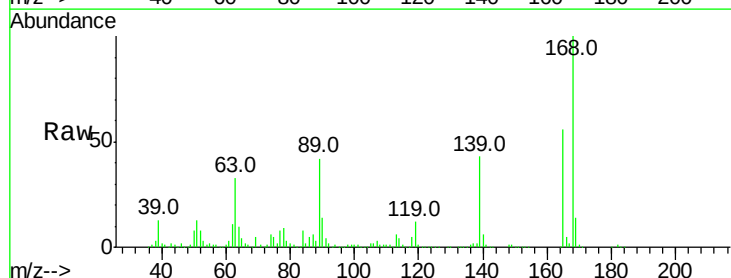
Instrument :  
BNA\_F  
ClientSampled :  
PB106912BS

Tot Ion:139 Resp: 273305  
Ion Ratio Lower Upper  
139 100  
109 73.9 48.4 88.4  
65 115.1 72.6 112.6#

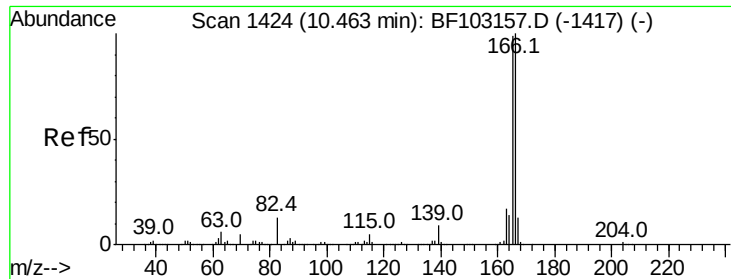


#56  
2,4-Dinitrotoluene  
Concen: 45.992 ng  
RT: 10.12 min Scan# 1365  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:165 Resp: 250013  
Ion Ratio Lower Upper  
165 100  
63 59.3 36.4 54.6#  
89 75.7 57.8 86.6  
182 2.1 1.6 2.4



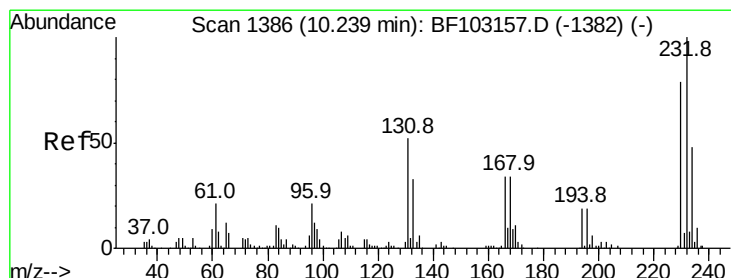
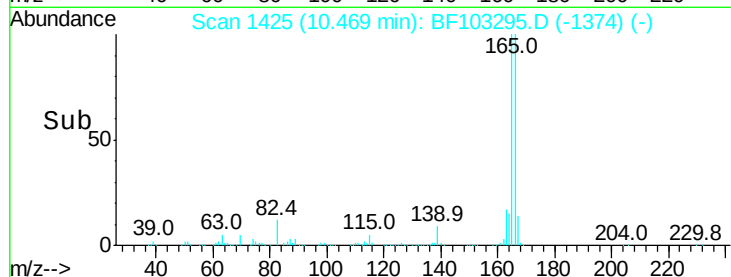
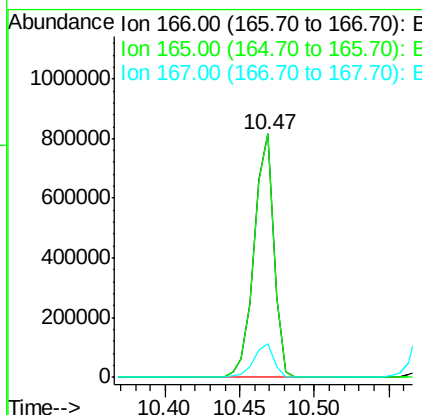
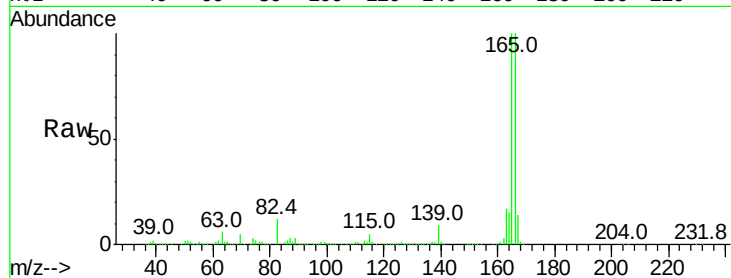




#57  
 Fluorene  
 Concen: 41.715 ng  
 RT: 10.47 min Scan# 1425  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

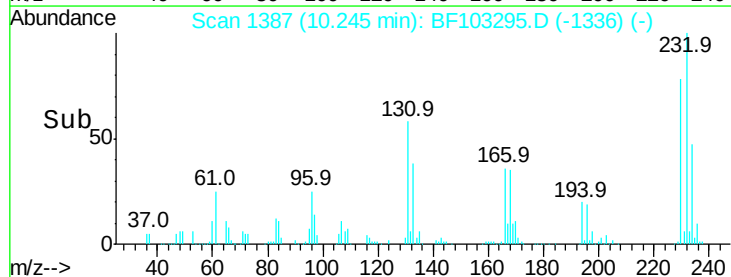
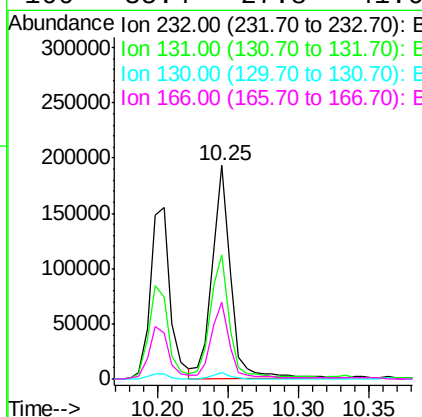
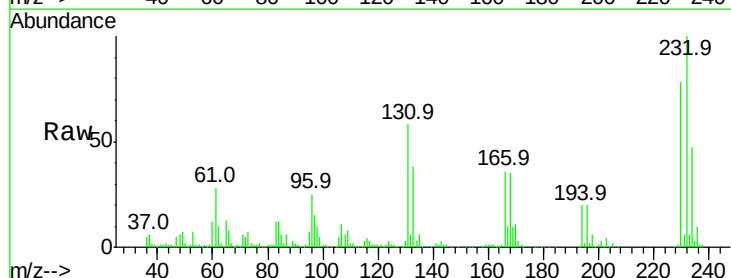
Instrument :  
 BNA\_F  
 ClientSampled :  
 PB106912BS

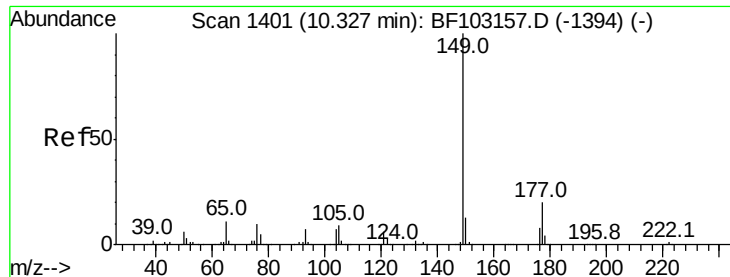
Tot Ion:166 Resp: 740757  
 Ion Ratio Lower Upper  
 166 100  
 165 99.9 79.8 119.8  
 167 13.6 10.6 16.0



#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 48.284 ng  
 RT: 10.25 min Scan# 1387  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Tgt Ion:232 Resp: 175206  
 Ion Ratio Lower Upper  
 232 100  
 131 59.7 43.8 65.8  
 130 3.3 2.1 3.1#  
 166 35.4 27.8 41.6

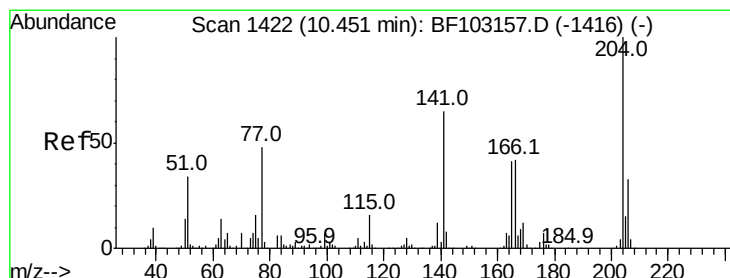
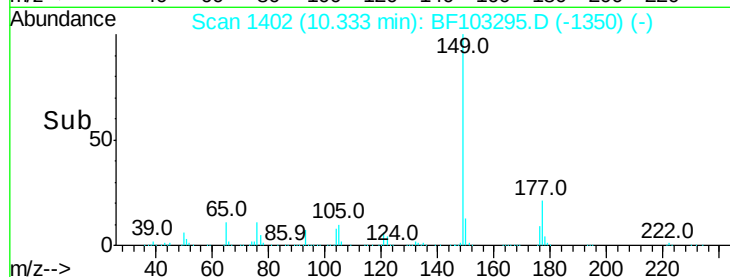
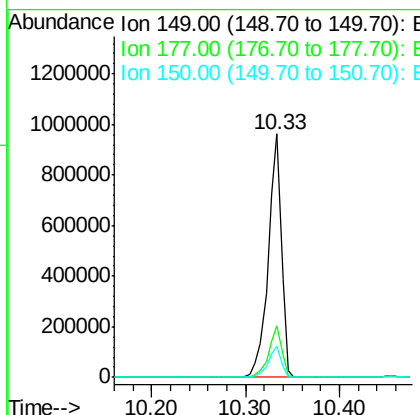
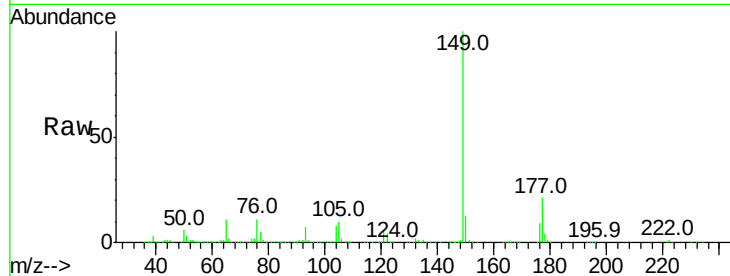




#59  
Diethylphthalate  
Concen: 47.673 ng  
RT: 10.33 min Scan# 1402  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

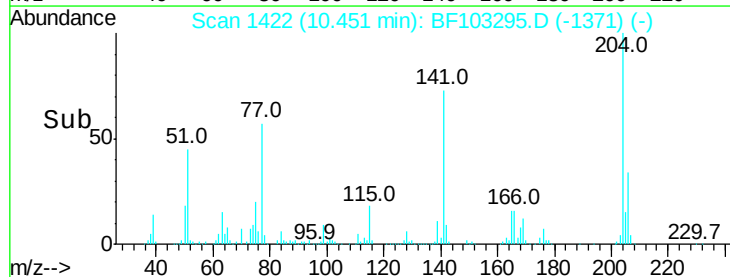
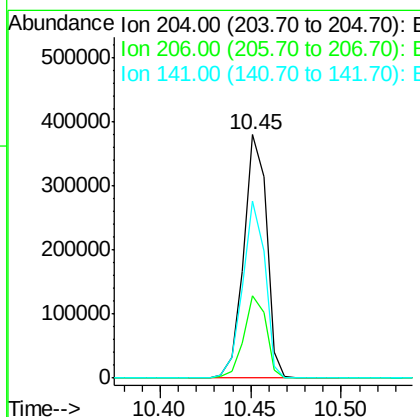
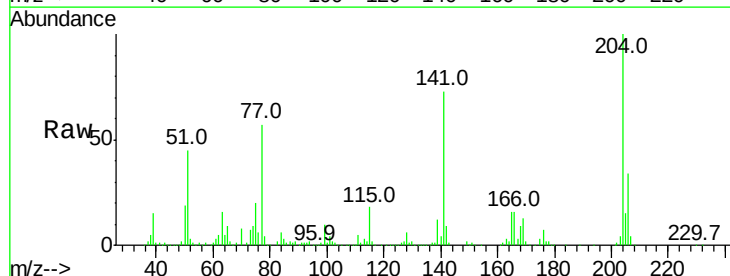
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

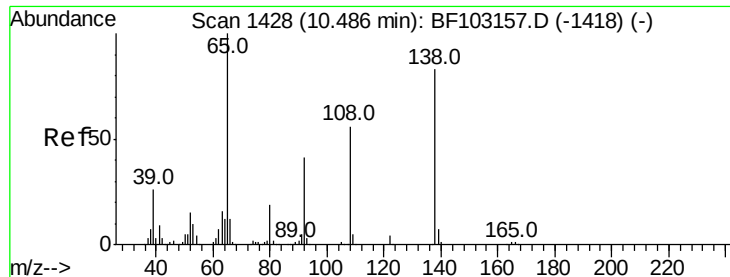
Tot Ion:149 Resp: 933870  
Ion Ratio Lower Upper  
149 100  
177 21.1 16.1 24.1  
150 12.6 10.1 15.1



#60  
4-Chlorophenyl-phenylether  
Concen: 44.268 ng  
RT: 10.45 min Scan# 1422  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:204 Resp: 333356  
Ion Ratio Lower Upper  
204 100  
206 33.6 26.5 39.7  
141 72.5 54.6 81.8

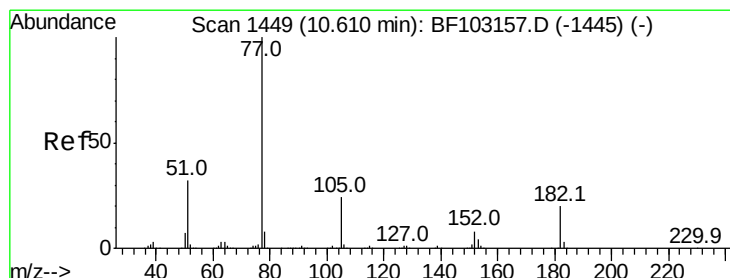
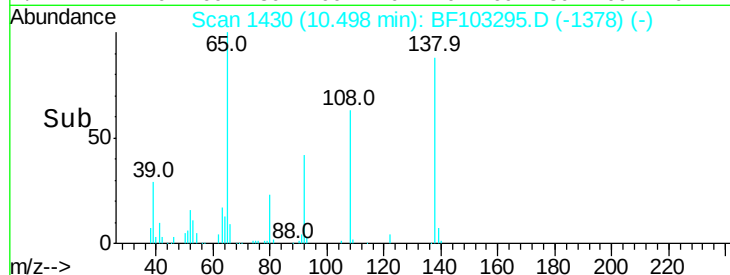
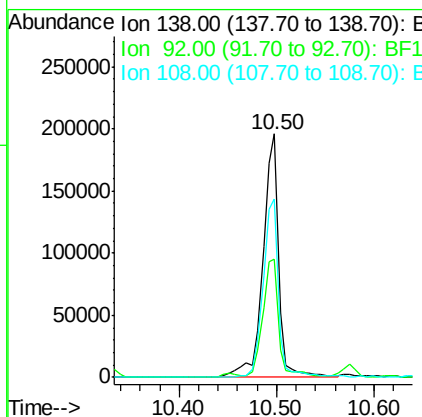
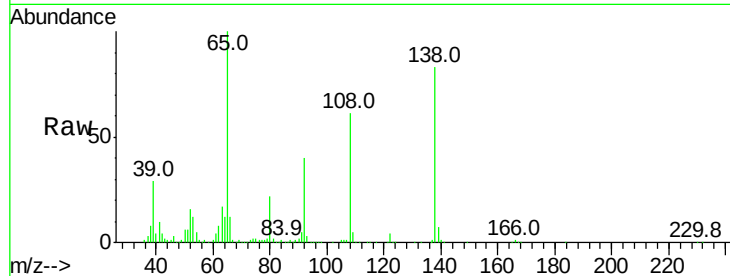




#61  
4-Nitroaniline  
Concen: 41.469 ng  
RT: 10.50 min Scan# 1430  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

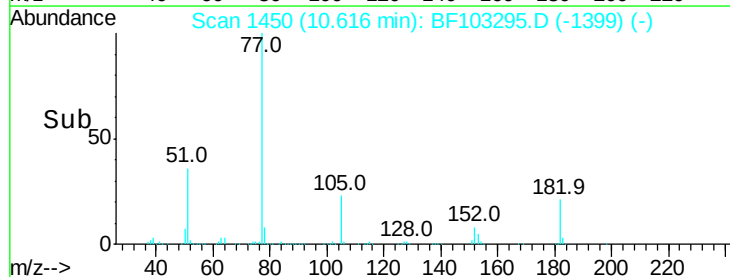
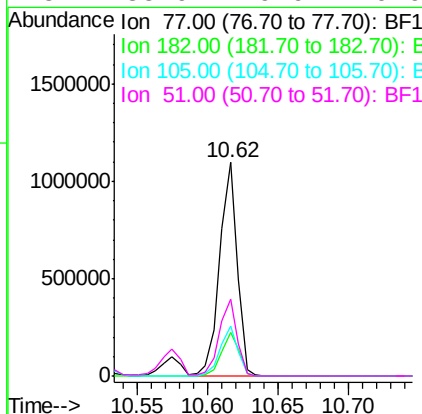
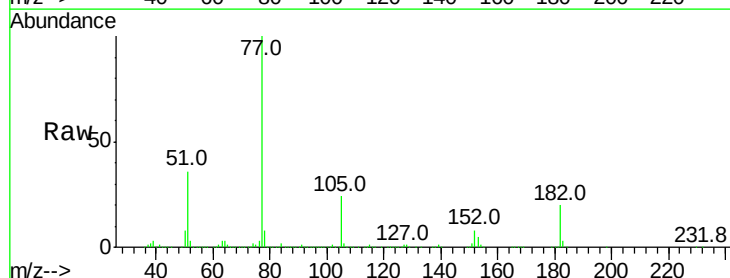
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

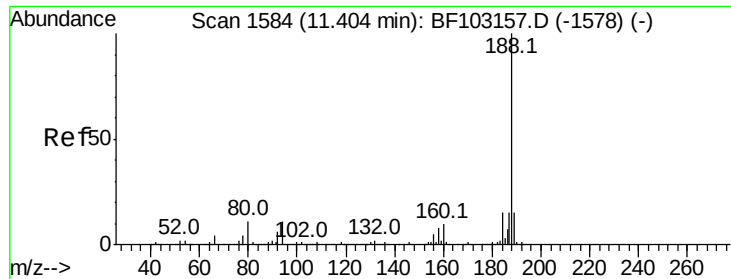
Tot Ion:138 Resp: 225873  
Ion Ratio Lower Upper  
138 100  
92 48.4 30.2 70.2  
108 73.5 52.5 92.5



#62  
Azobenzene  
Concen: 47.469 ng  
RT: 10.62 min Scan# 1450  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion: 77 Resp: 946501  
Ion Ratio Lower Upper  
77 100  
182 20.5 1.7 41.7  
105 23.7 3.0 43.0  
51 35.9 9.9 49.9

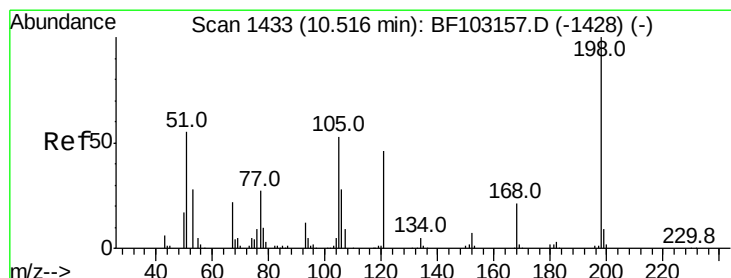
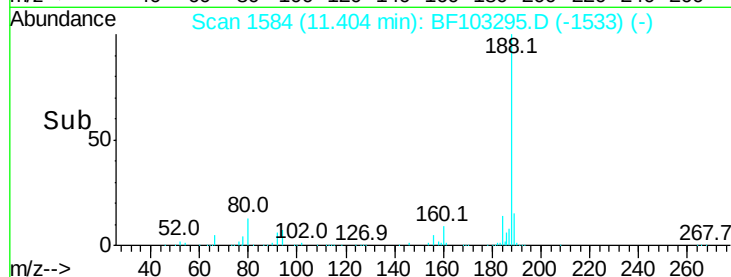
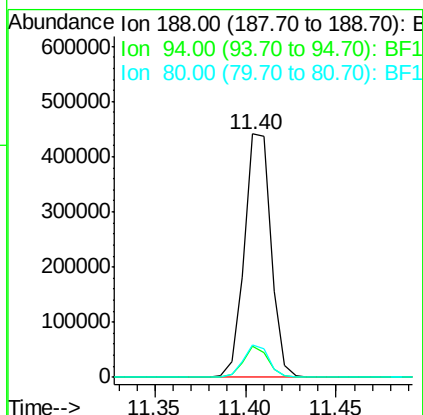
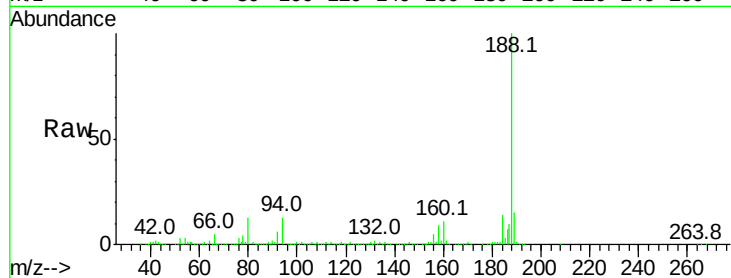




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

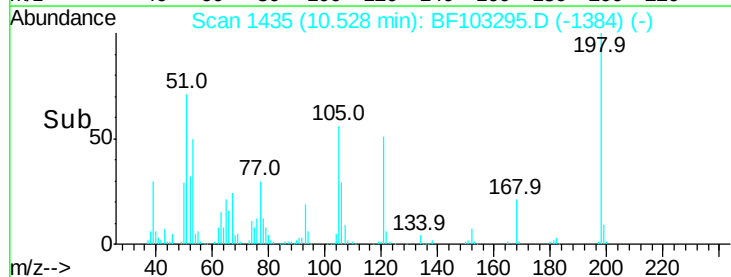
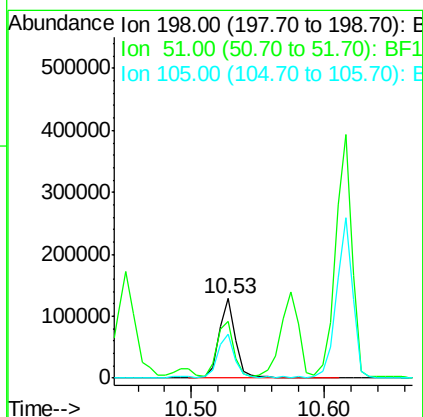
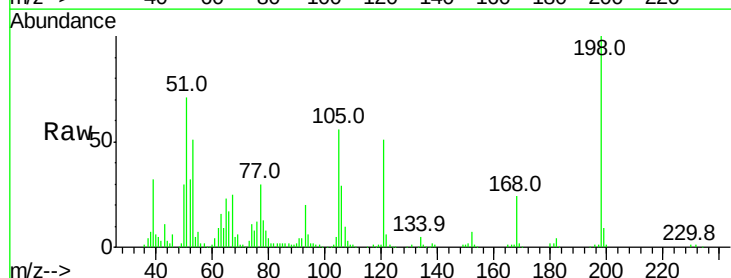
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

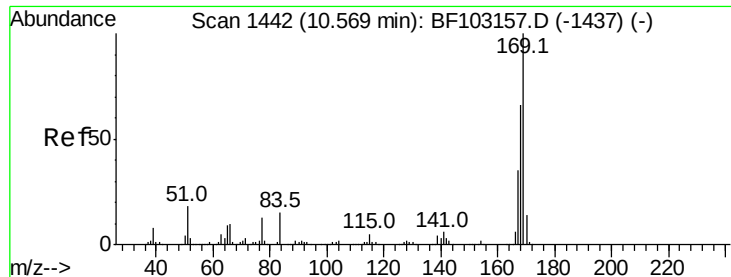
Tot Ion:188 Resp: 451039  
Ion Ratio Lower Upper  
188 100  
94 12.7 8.5 12.7#  
80 13.4 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 41.890 ng  
RT: 10.53 min Scan# 1435  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:198 Resp: 113035  
Ion Ratio Lower Upper  
198 100  
51 71.5 37.7 77.7  
105 55.8 36.3 76.3

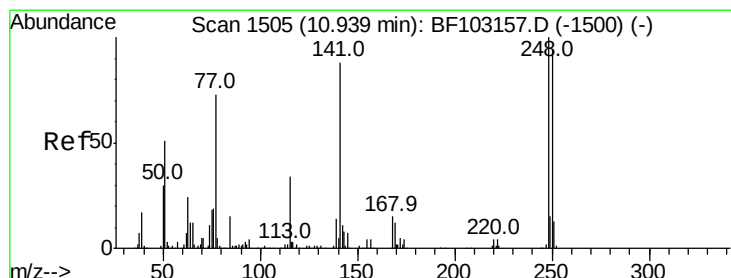
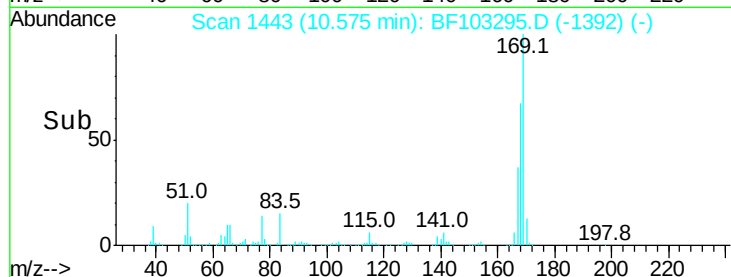
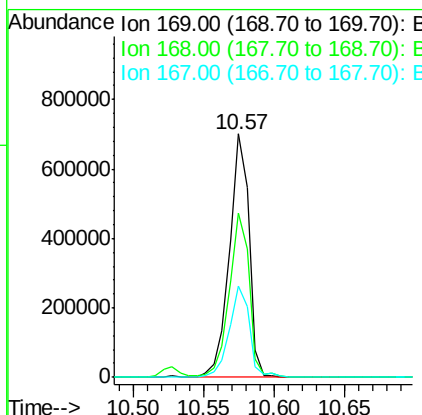
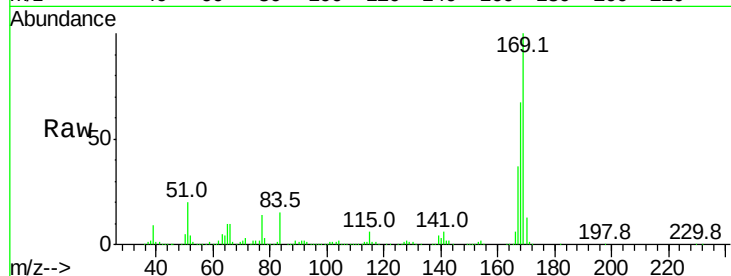




#65  
 n-Nitrosodiphenylamine  
 Concen: 42.931 ng  
 RT: 10.57 min Scan# 1443  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

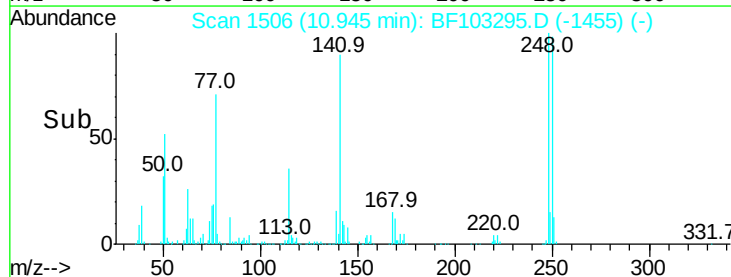
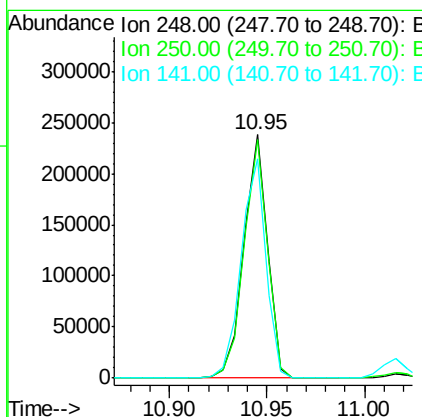
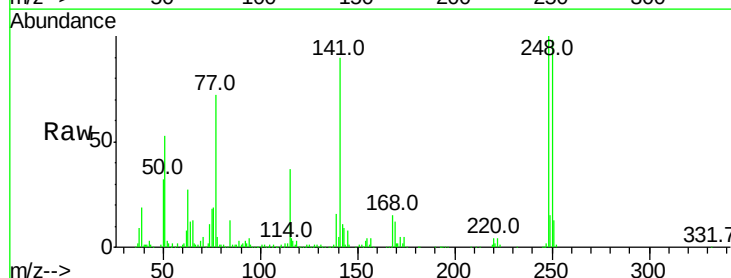
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

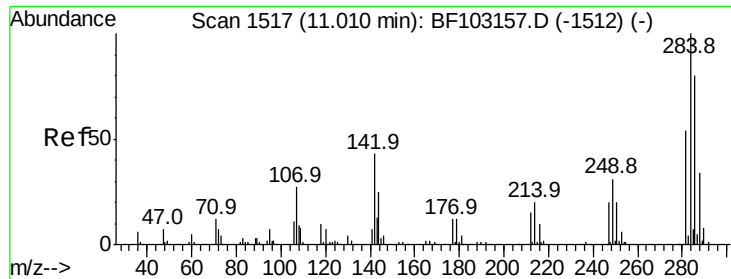
Tot Ion:169 Resp: 674206  
 Ion Ratio Lower Upper  
 169 100  
 168 67.5 54.4 81.6  
 167 37.4 29.8 44.6



#66  
 4-Bromophenyl-phenylether  
 Concen: 42.465 ng  
 RT: 10.95 min Scan# 1506  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Tgt Ion:248 Resp: 199519  
 Ion Ratio Lower Upper  
 248 100  
 250 97.8 76.9 115.3  
 141 90.0 74.4 111.6





#67

Hexachlorobenzene

Concen: 40.919 ng

RT: 11.02 min Scan# 1518

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

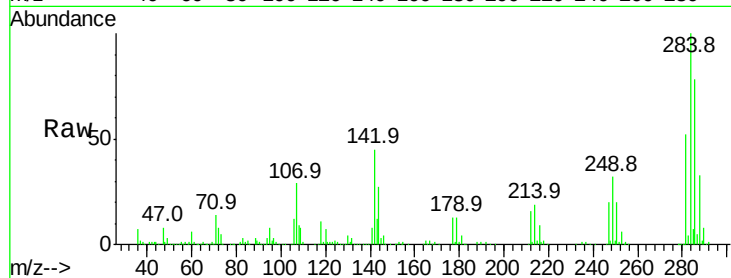
Tot Ion:284 Resp: 208678

Ion Ratio Lower Upper

284 100

142 45.3 34.6 52.0

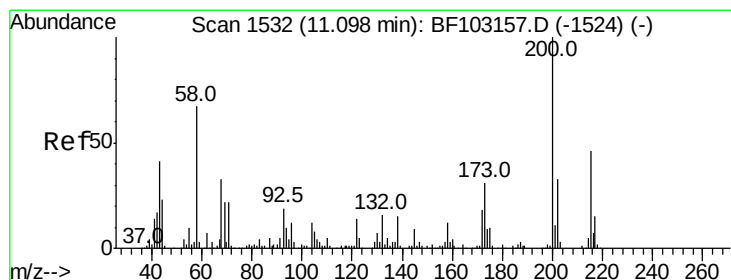
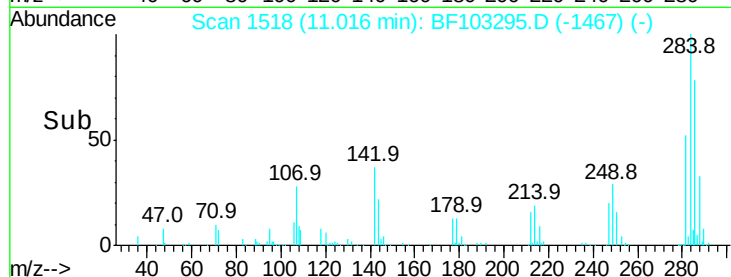
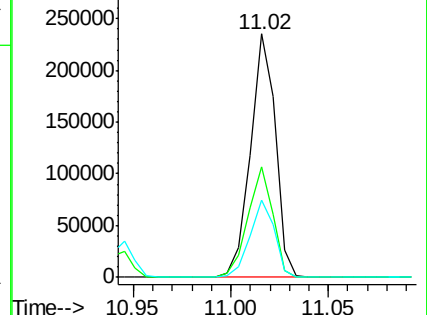
249 31.8 24.8 37.2



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



#68

Atrazine

Concen: 46.275 ng

RT: 11.10 min Scan# 1533

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

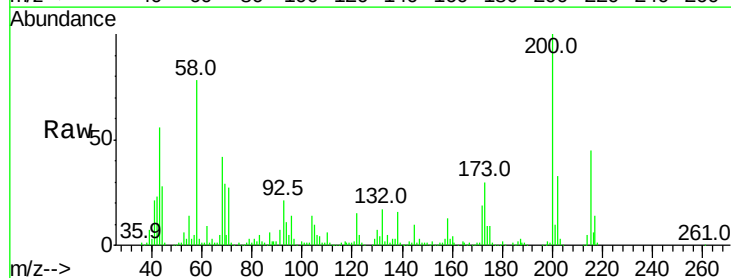
Tgt Ion:200 Resp: 218431

Ion Ratio Lower Upper

200 100

173 30.1 8.6 48.6

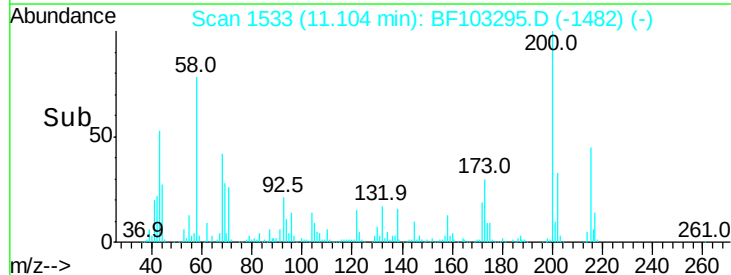
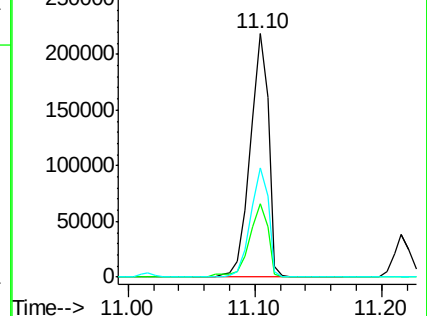
215 44.9 25.1 65.1

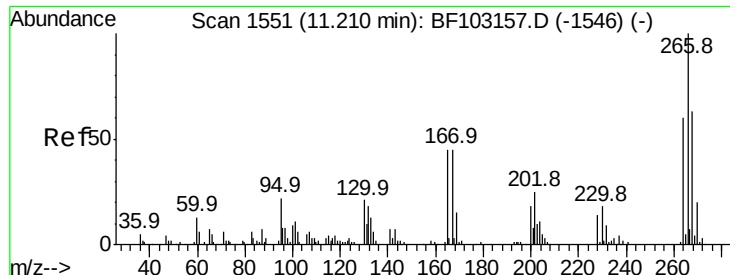


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#69

Pentachlorophenol

Concen: 77.912 ng

RT: 11.22 min Scan# 1552

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

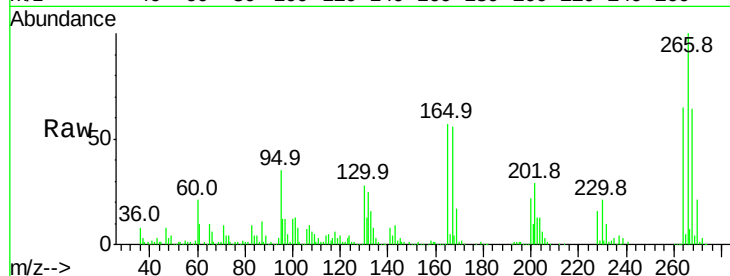
Tot Ion:266 Resp: 192117

Ion Ratio Lower Upper

266 100

268 64.4 51.1 76.7

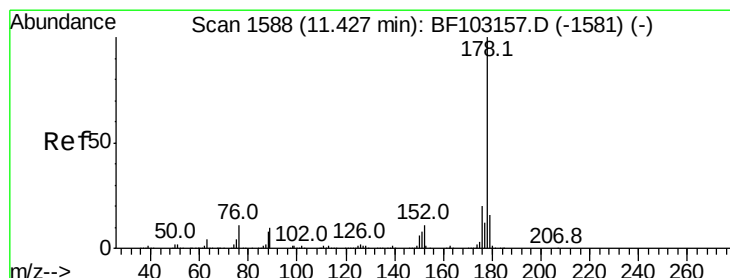
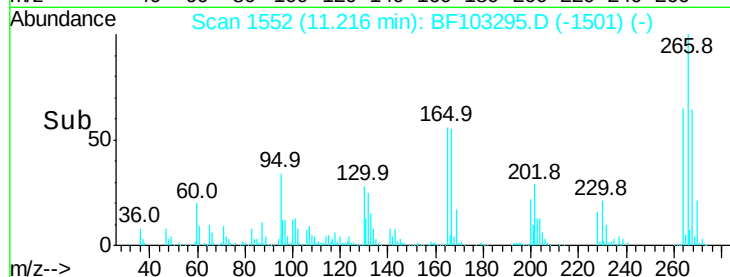
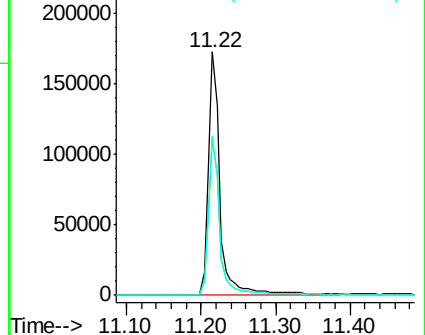
264 65.1 49.5 74.3



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#70

Phenanthrene

Concen: 43.432 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

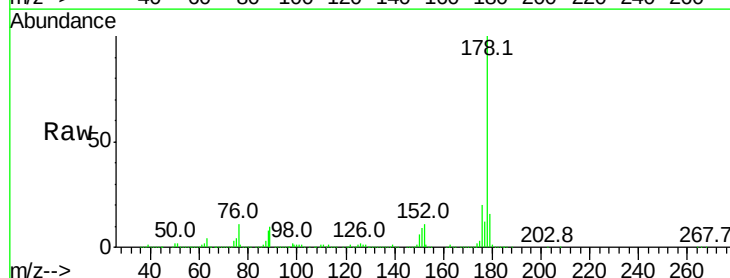
Tgt Ion:178 Resp: 1078072

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

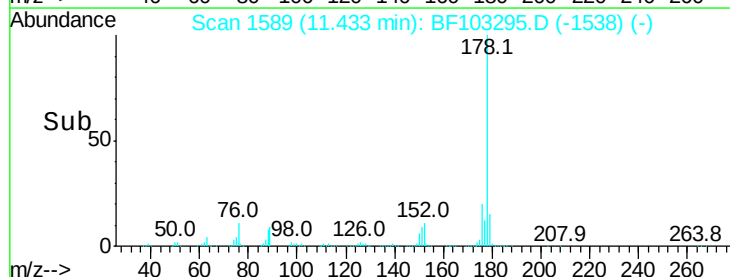
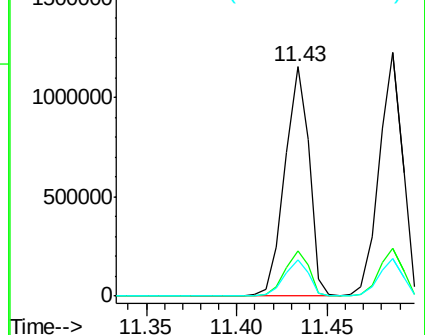
179 15.6 13.0 19.6

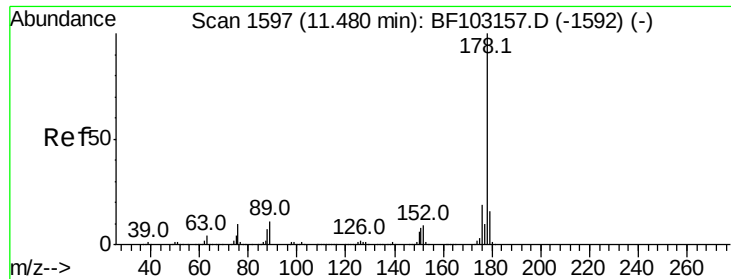


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

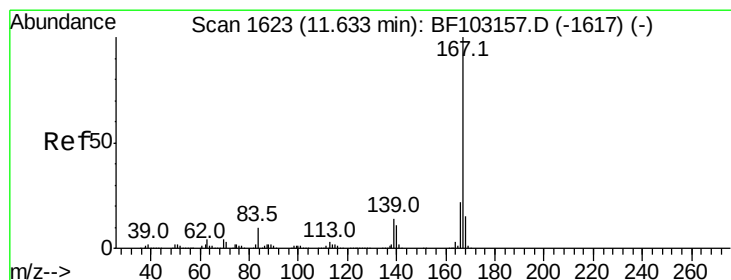
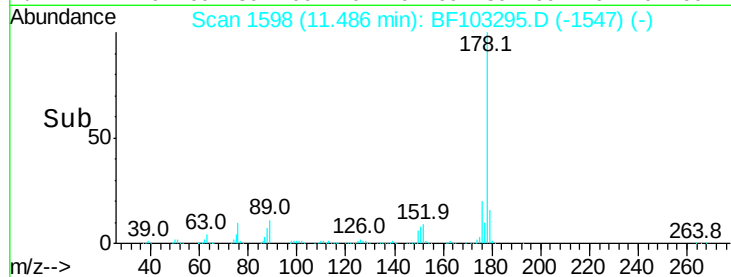
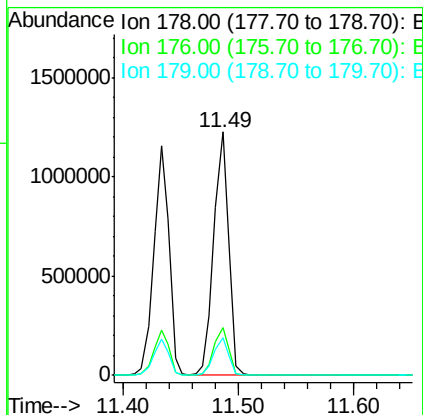
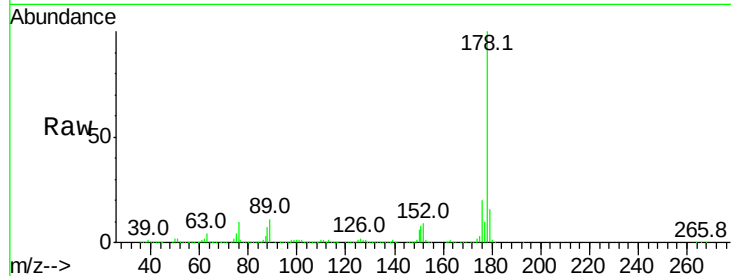




#71  
 Anthracene  
 Concen: 43.255 ng  
 RT: 11.49 min Scan# 1598  
 Delta R.T. 0.00 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

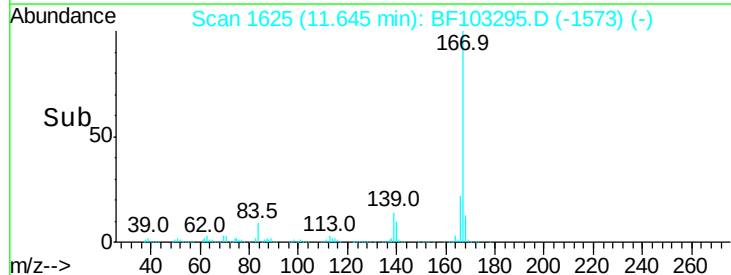
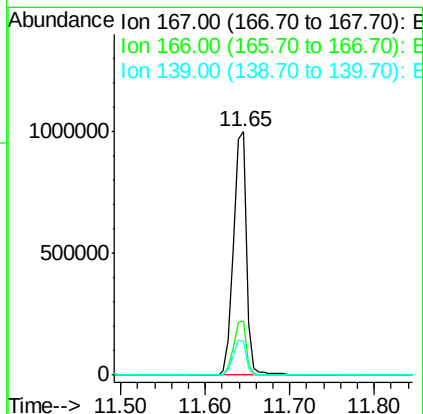
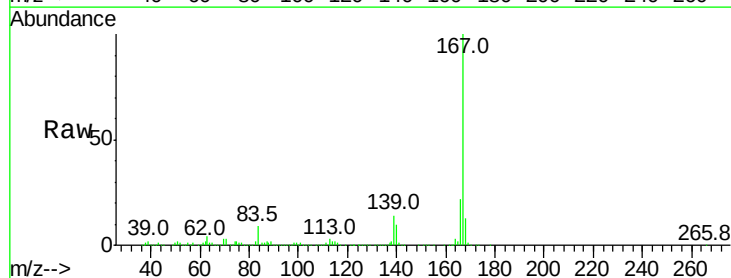
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB106912BS

Tot Ion:178 Resp: 1100981  
 Ion Ratio Lower Upper  
 178 100  
 176 19.6 15.4 23.2  
 179 15.7 12.6 19.0

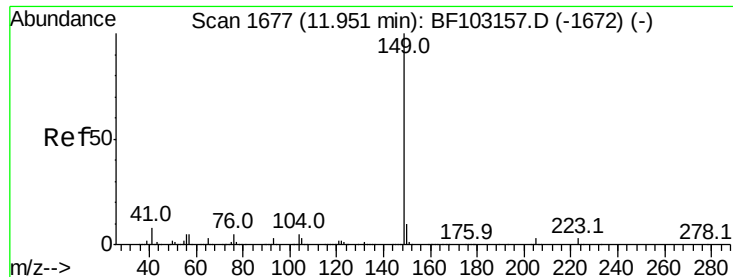


#72  
 Carbazole  
 Concen: 41.301 ng  
 RT: 11.65 min Scan# 1625  
 Delta R.T. 0.01 min  
 Lab File: BF103295.D  
 Acq: 28 Feb 2018 16:17

Tgt Ion:167 Resp: 1046868  
 Ion Ratio Lower Upper  
 167 100  
 166 22.2 17.6 26.4  
 139 14.1 10.9 16.3







#73

Di-n-butylphthalate

Concen: 44.525 ng

RT: 11.96 min Scan# 1678

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

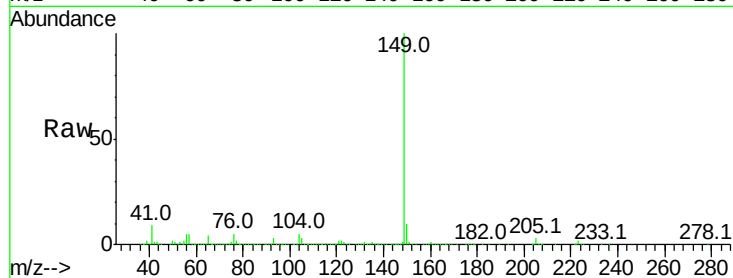
Tot Ion:149 Resp: 1412194

Ion Ratio Lower Upper

149 100

150 9.5 7.8 11.6

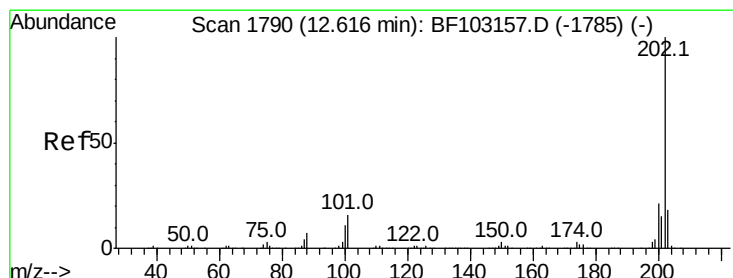
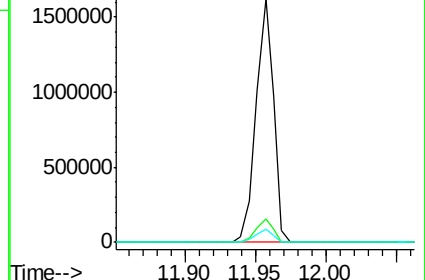
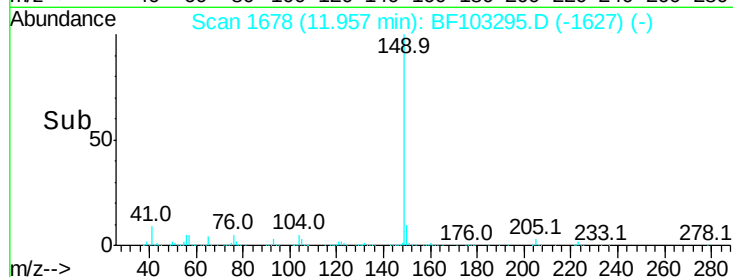
104 5.4 3.8 5.8



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: 42.908 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

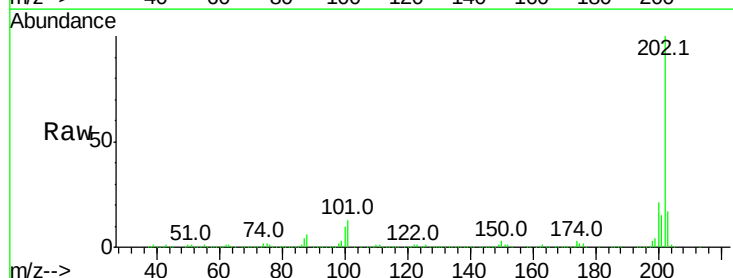
Tgt Ion:202 Resp: 1070263

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.1

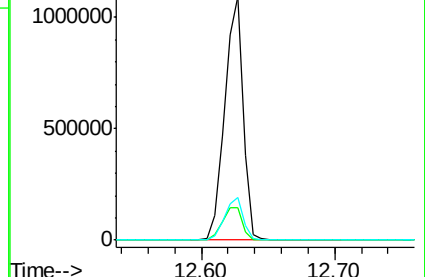
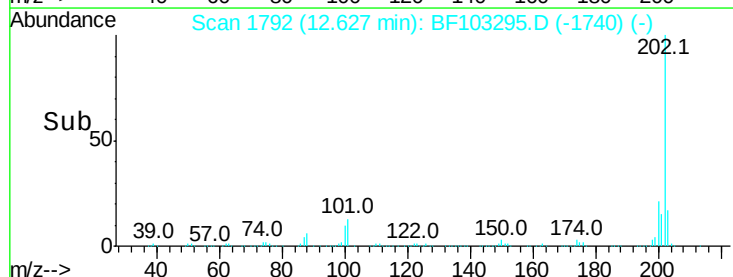
203 17.3 0.0 38.1

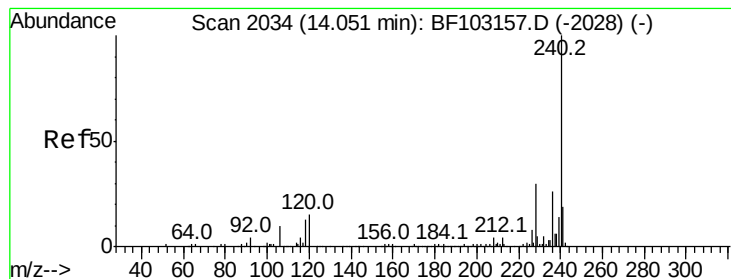


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

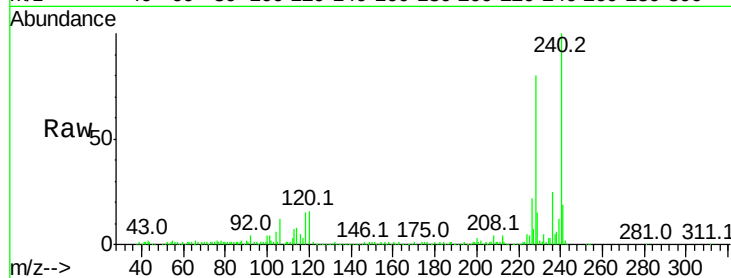
Tot Ion:240 Resp: 276776

Ion Ratio Lower Upper

240 100

120 16.5 9.5 14.3#

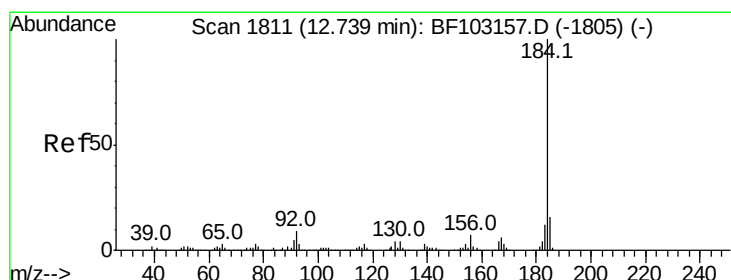
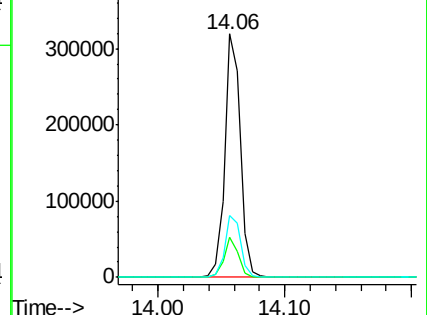
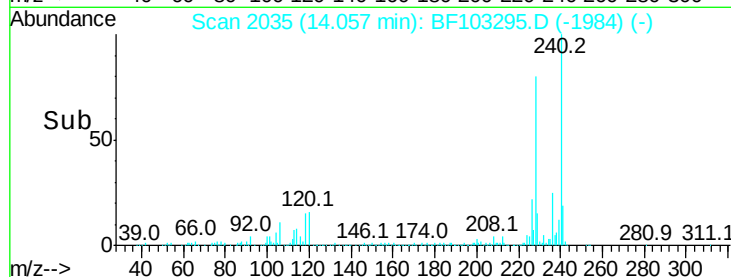
236 25.3 20.7 31.1



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



#76

Benzidine

Concen: 14.222 ng

RT: 12.75 min Scan# 1812

Delta R.T. 0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

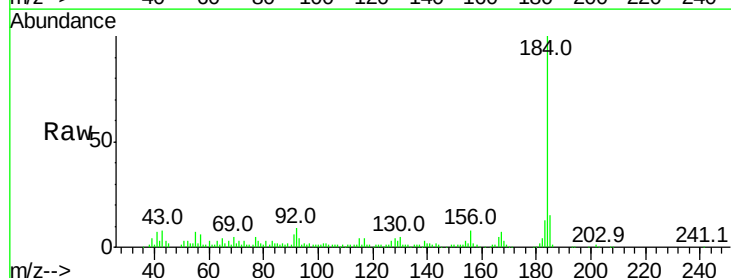
Tgt Ion:184 Resp: 147161

Ion Ratio Lower Upper

184 100

185 15.3 12.6 18.8

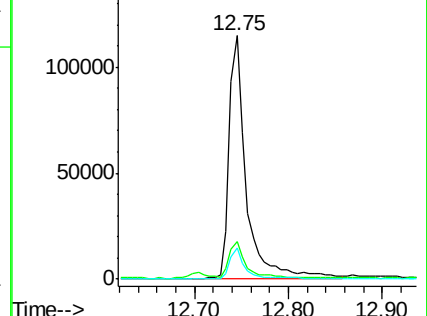
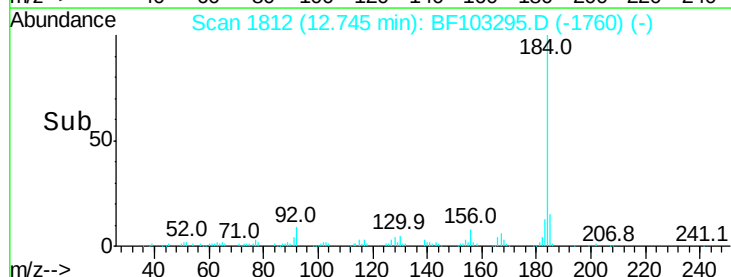
183 12.7 9.3 13.9

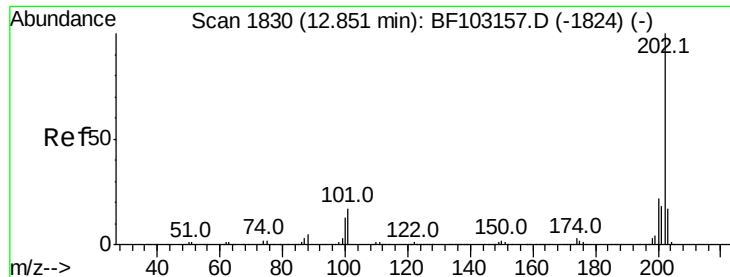


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: 48.595 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

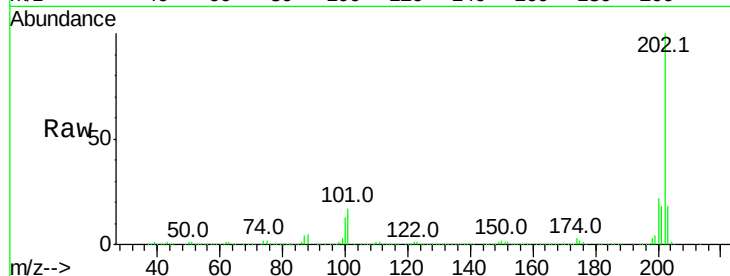
Tot Ion:202 Resp: 1048646

Ion Ratio Lower Upper

202 100

200 22.4 17.4 26.2

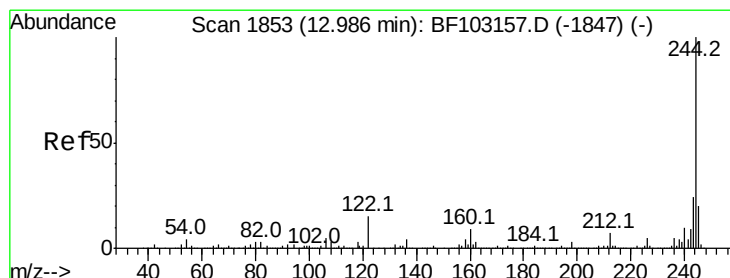
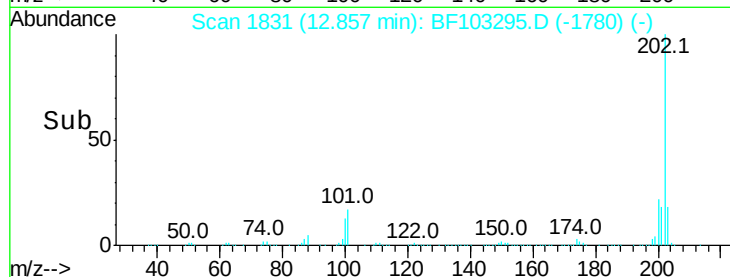
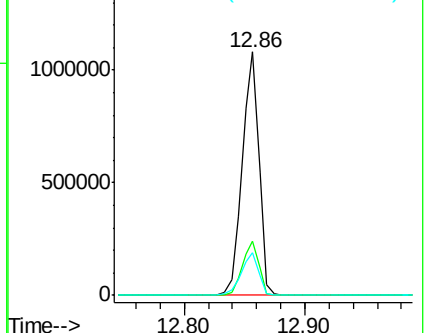
203 17.8 14.3 21.5



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: 96.733 ng

RT: 12.99 min Scan# 1854

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

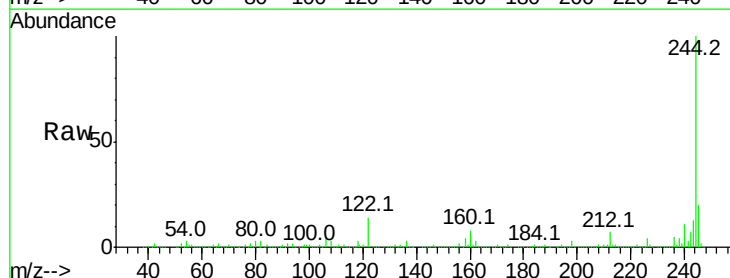
Tgt Ion:244 Resp: 1113767

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

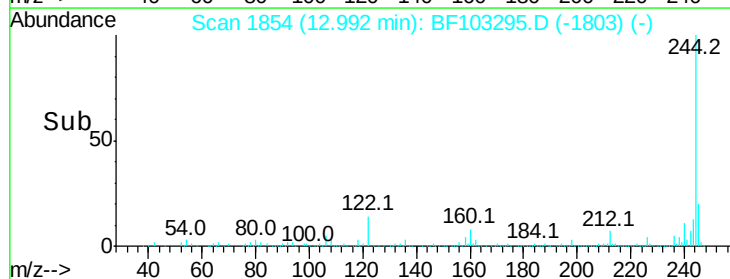
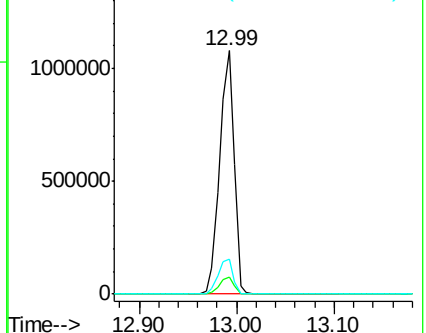
122 14.4 11.0 16.4

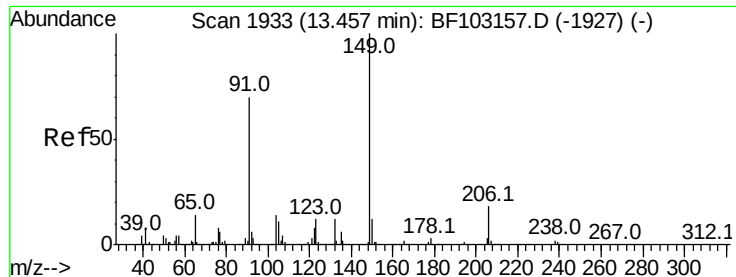


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

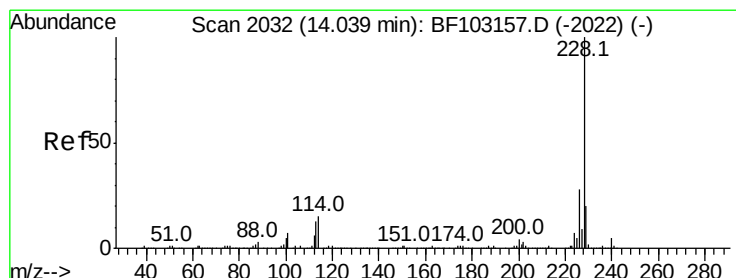
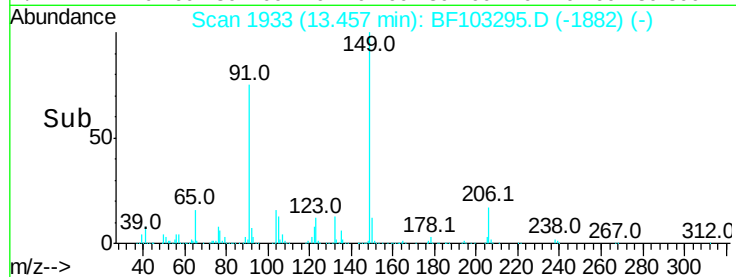
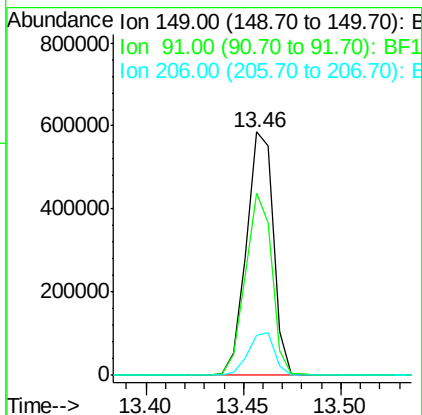
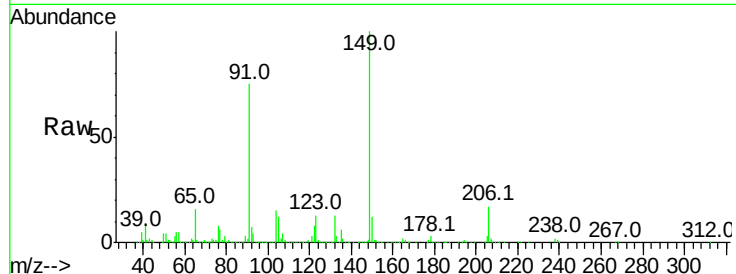




#79  
Butylbenzylphthalate  
Concen: 49.097 ng  
RT: 13.46 min Scan# 1933  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

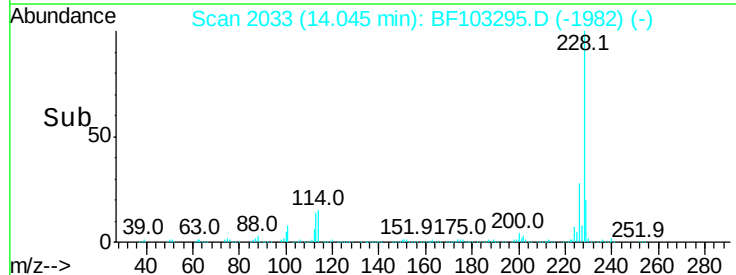
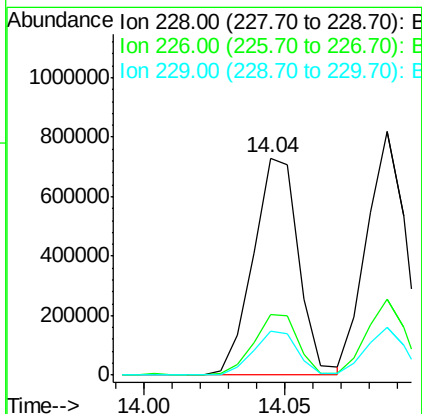
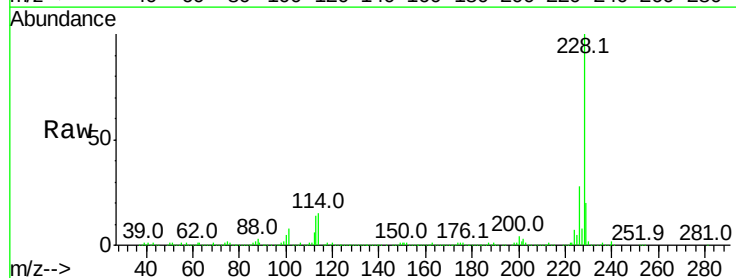
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

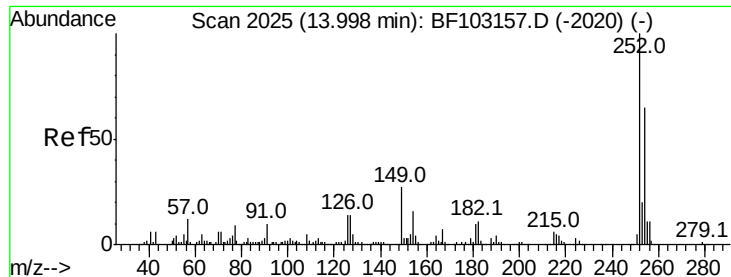
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 75.1  | 56.8  | 85.2  |
| 206     | 16.6  | 14.1  | 21.1  |



#80  
Benzo(a)anthracene  
Concen: 45.574 ng  
RT: 14.04 min Scan# 2033  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.9  | 22.6  | 33.8  |
| 229     | 20.3  | 15.8  | 23.6  |





#81

3,3'-Dichlorobenzidine

Concen: 31.615 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

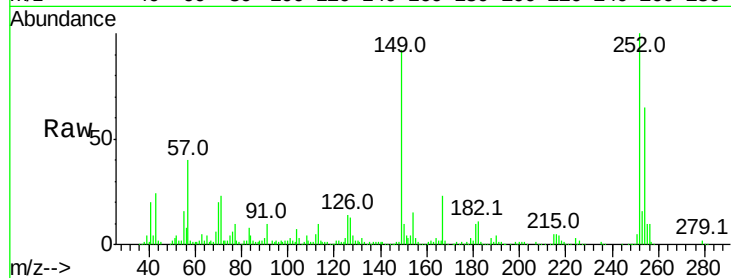
Tot Ion:252 Resp: 202619

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 254 | 65.5  | 50.4  | 75.6  |
| 126 | 13.8  | 11.3  | 16.9  |

252 100

254 65.5 50.4 75.6

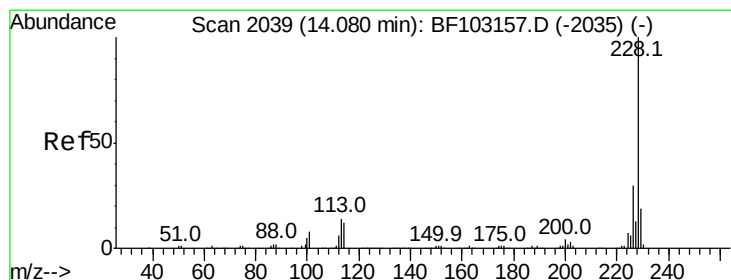
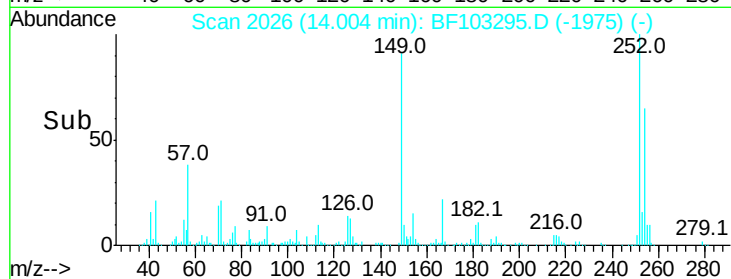
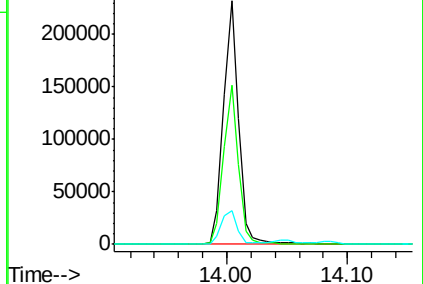
126 13.8 11.3 16.9



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#82

Chrysene

Concen: 44.202 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

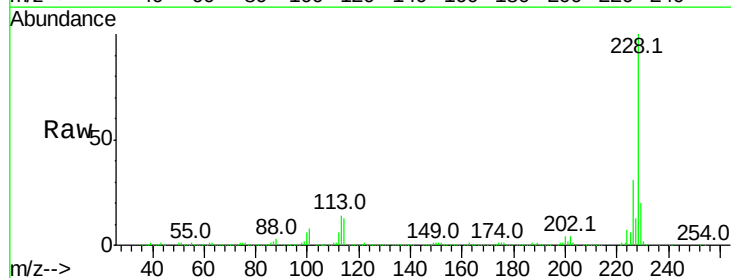
Tgt Ion:228 Resp: 770748

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 31.1  | 25.0  | 37.6  |
| 229 | 19.6  | 16.2  | 24.4  |

228 100

226 31.1 25.0 37.6

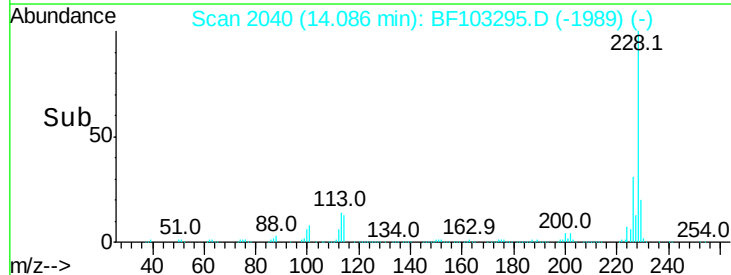
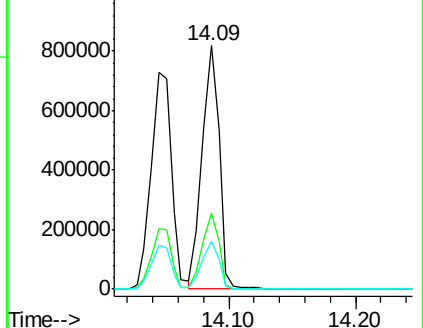
229 19.6 16.2 24.4

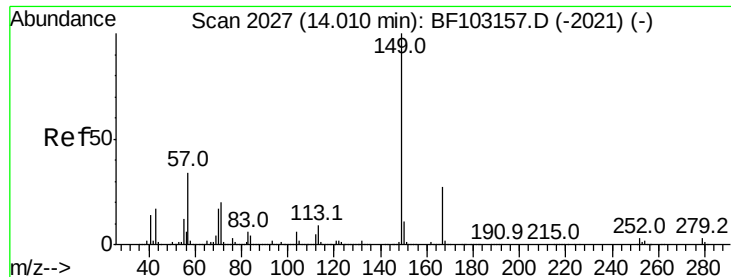


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 47.683 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

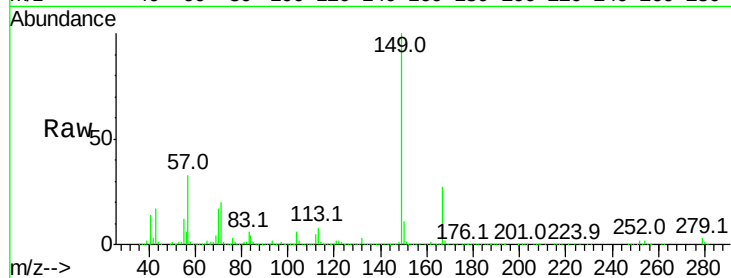
Tot Ion:149 Resp: 733622

Ion Ratio Lower Upper

149 100

167 27.0 21.3 31.9

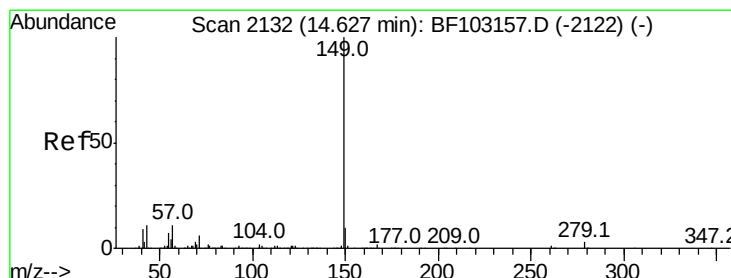
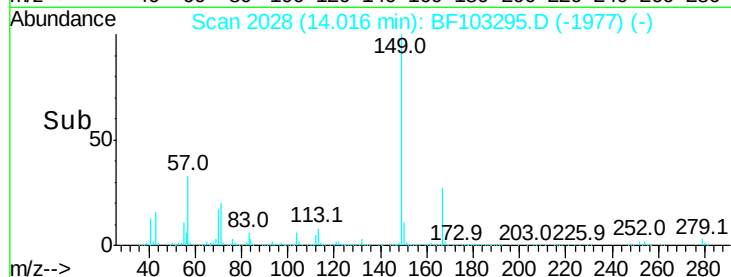
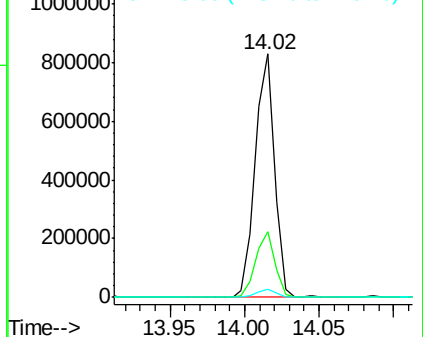
279 3.1 3.0 4.4



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: 46.724 ng

RT: 14.64 min Scan# 2134

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

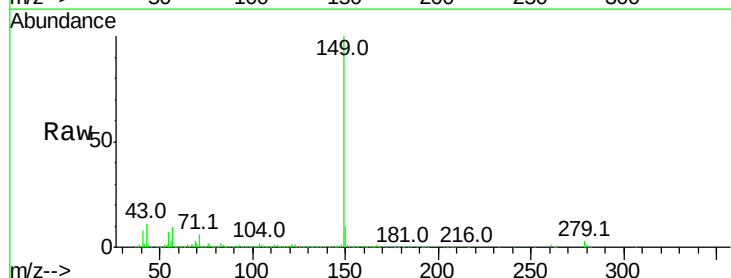
Tgt Ion:149 Resp: 1161464

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

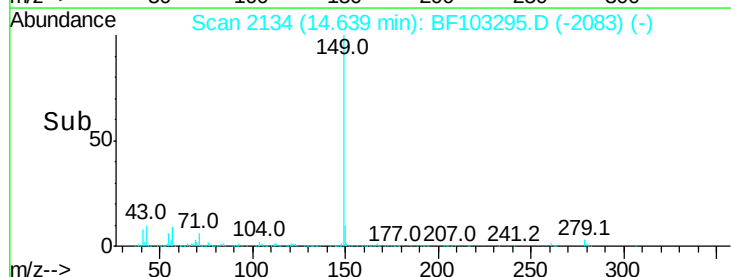
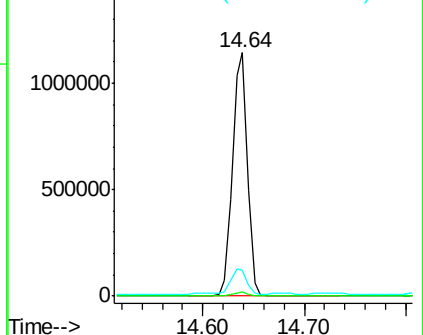
43 10.5 8.4 12.6

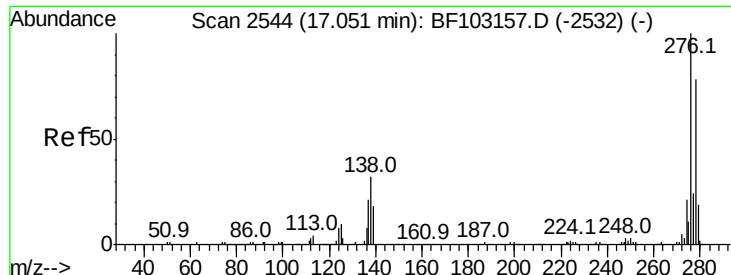


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1





#85

Indeno(1,2,3-cd)pyrene

Concen: 46.704 ng

RT: 17.09 min Scan# 2551

Delta R.T. 0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

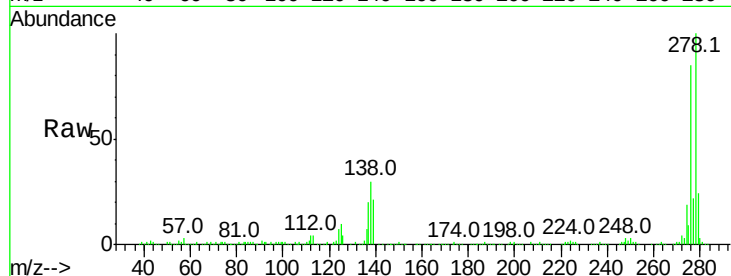
Tot Ion:276 Resp: 644724

Ion Ratio Lower Upper

276 100

138 32.6 25.0 37.6

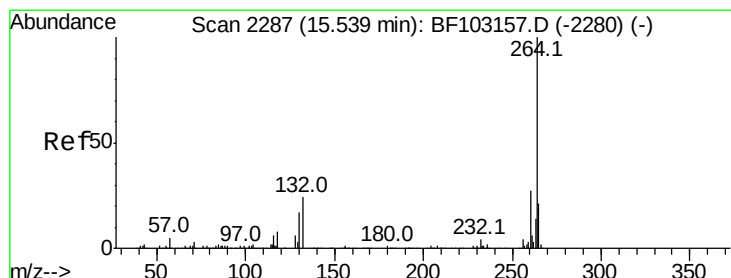
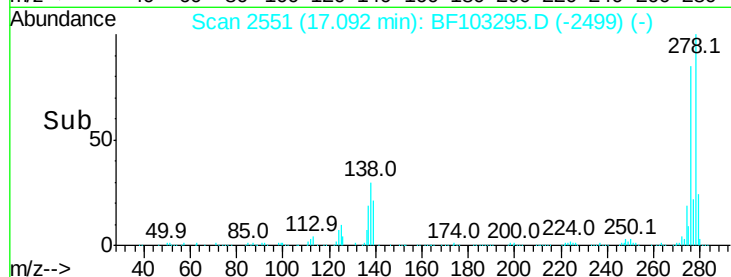
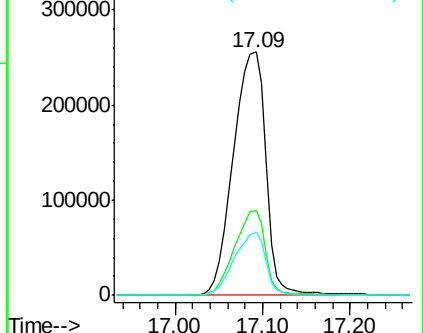
277 25.0 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.56 min Scan# 2290

Delta R.T. 0.00 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

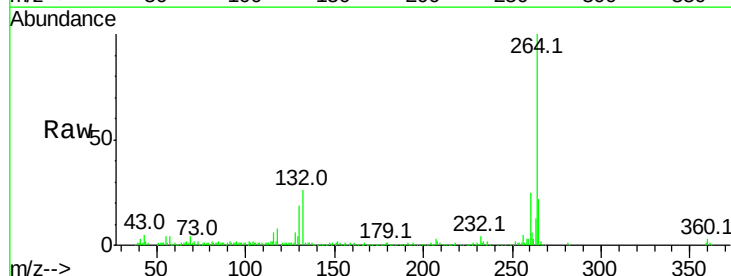
Tgt Ion:264 Resp: 218444

Ion Ratio Lower Upper

264 100

260 25.3 19.2 28.8

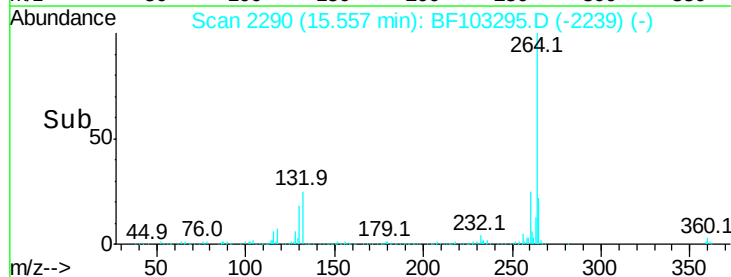
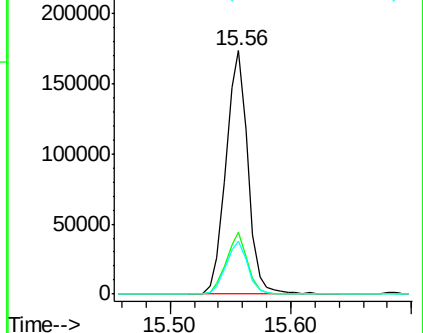
265 21.6 17.5 26.3

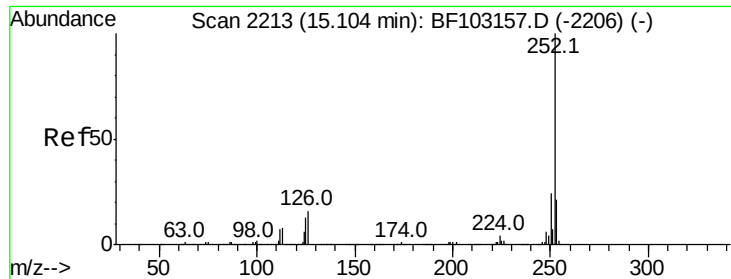


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

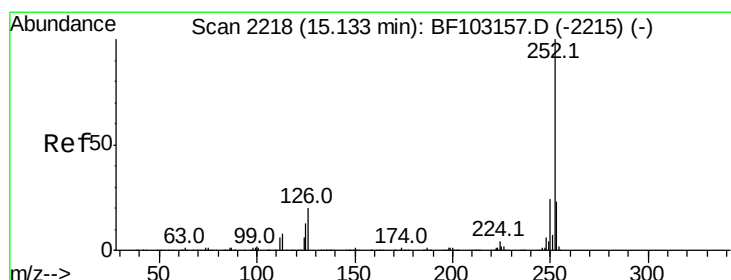
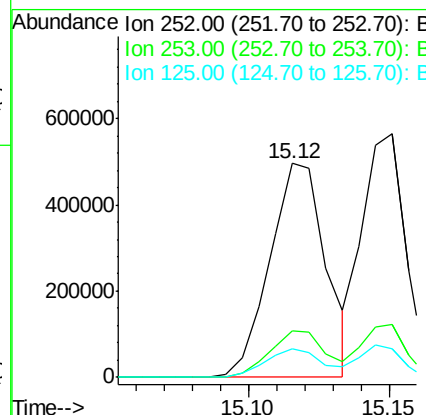
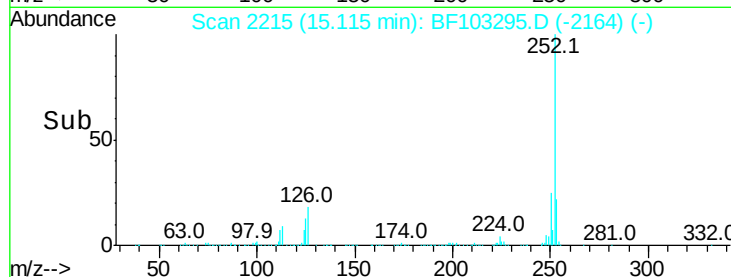
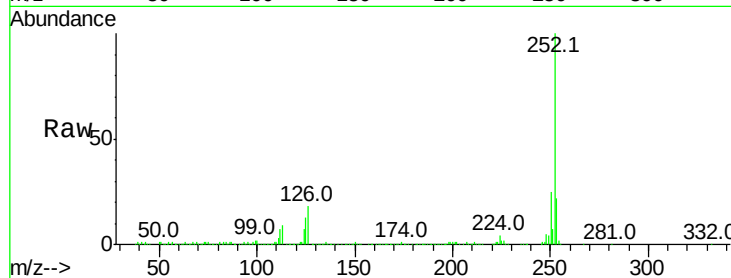




#87  
Benzo(b)fluoranthene  
Concen: 47.558 ng  
RT: 15.12 min Scan# 2215  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

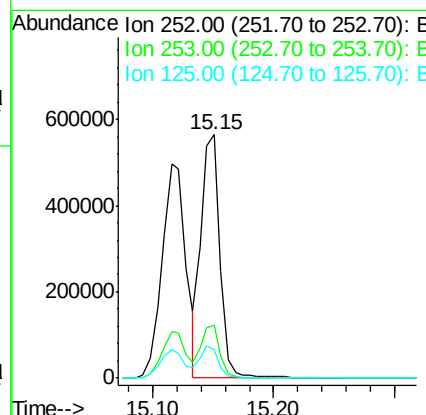
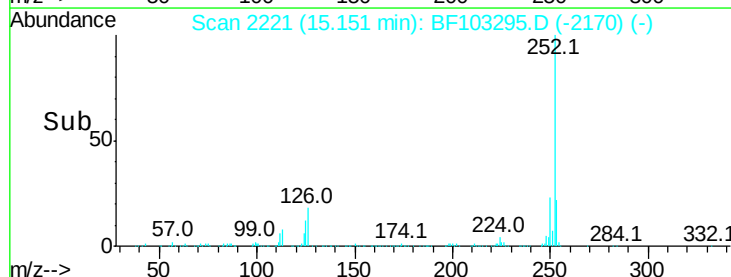
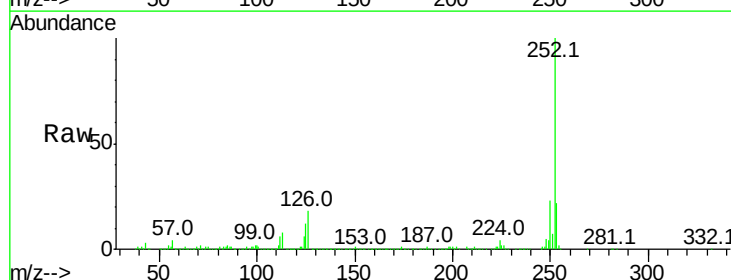
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

Tot Ion:252 Resp: 683058  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.0 25.6  
125 13.3 9.0 13.6

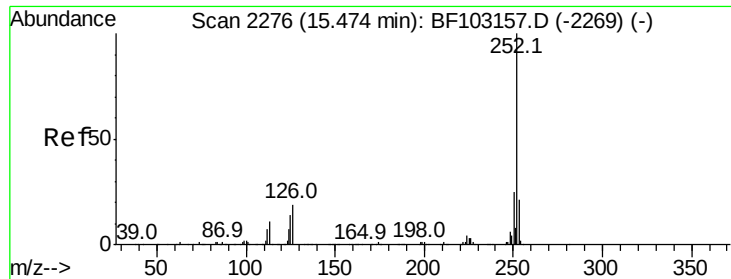


#88  
Benzo(k)fluoranthene  
Concen: 45.231 ng  
RT: 15.15 min Scan# 2221  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:252 Resp: 611727  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.9 26.9  
125 11.7 10.2 15.2



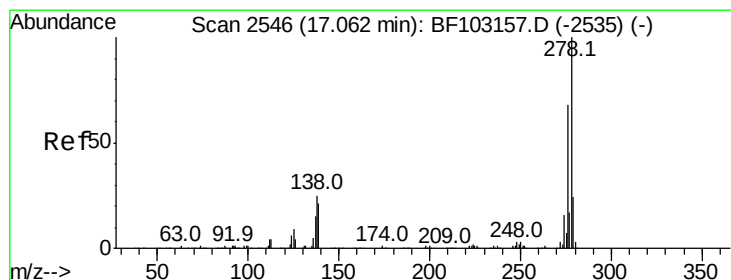
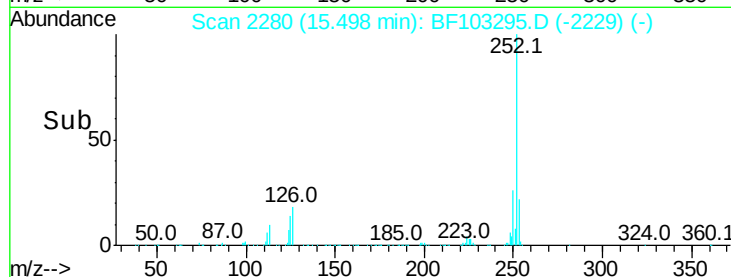
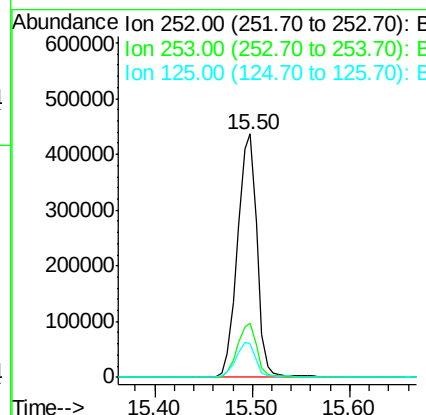
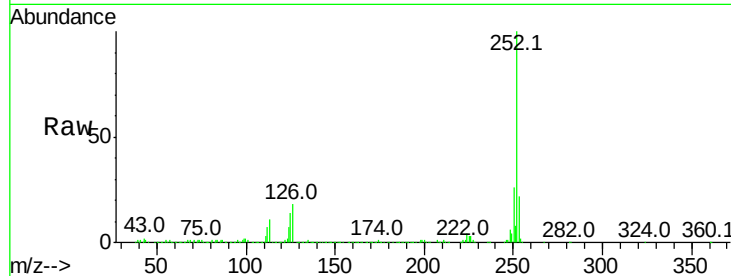




#89  
Benzo(a)pyrene  
Concen: 47.179 ng  
RT: 15.50 min Scan# 2280  
Delta R.T. 0.00 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

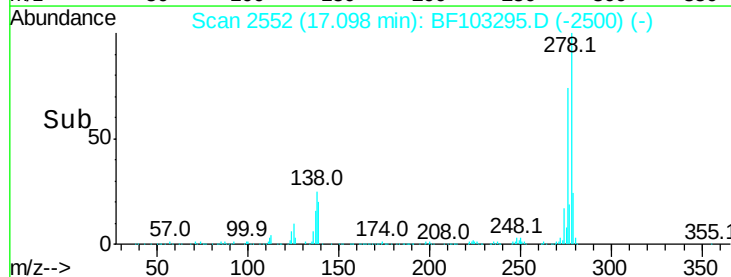
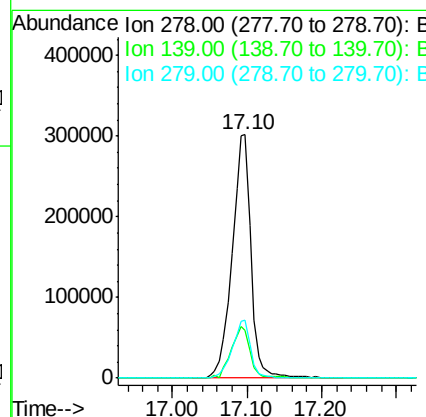
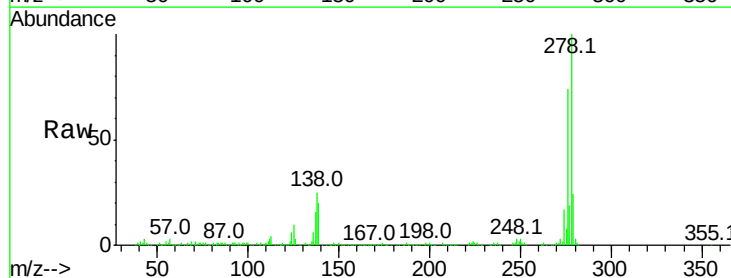
Instrument :  
BNA\_F  
ClientSampleId :  
PB106912BS

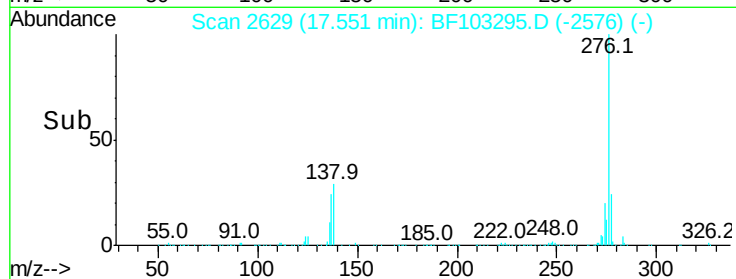
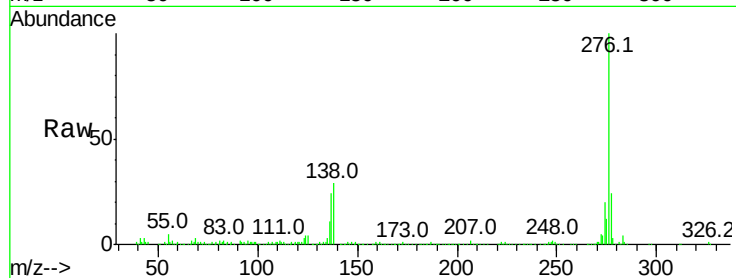
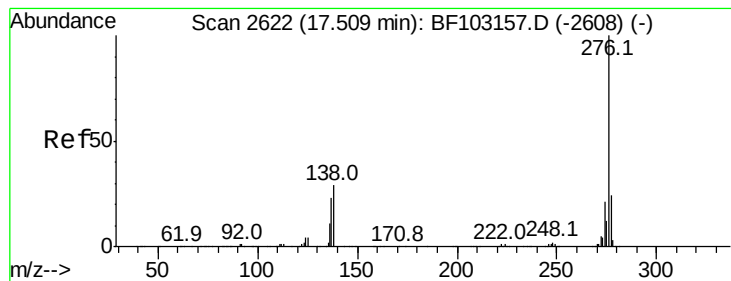
Tot Ion:252 Resp: 605104  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.1 25.7  
125 13.8 9.8 14.6



#90  
Dibenzo(a,h)anthracene  
Concen: 53.936 ng  
RT: 17.10 min Scan# 2552  
Delta R.T. 0.01 min  
Lab File: BF103295.D  
Acq: 28 Feb 2018 16:17

Tgt Ion:278 Resp: 534537  
Ion Ratio Lower Upper  
278 100  
139 19.8 15.9 23.9  
279 23.7 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 58.045 ng

RT: 17.55 min Scan# 2629

Delta R.T. 0.01 min

Lab File: BF103295.D

Acq: 28 Feb 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

PB106912BS

Tot Ion:276 Resp: 562222

Ion Ratio Lower Upper

276 100

277 23.9 17.9 26.9

138 28.8 21.8 32.8

