

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050815\  
 Data File : BF079056.D  
 Acq On : 8 May 2015 23:59  
 Operator : TP/IZ  
 Sample : PB83273BS  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

Quant Time: May 09 01:10:51 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 08 22:44:53 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.32  | 152  | 67162    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.90  | 136  | 275529   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.07 | 164  | 133524   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.93 | 188  | 251586   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 16.22 | 240  | 243272   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 17.94 | 264  | 241662   | 20.00 | ng    | -0.14    |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.62  | 112 | 505771 | 129.63 | ng | 0.00  |
| 7) Phenol-d6                | 6.88  | 99  | 653800 | 126.77 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 8.01  | 82  | 370792 | 77.34  | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 12.06 | 330 | 190215 | 131.68 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 10.24 | 172 | 738279 | 77.03  | ng | -0.01 |
| 78) Terphenyl-d14           | 14.91 | 244 | 834809 | 82.16  | ng | -0.01 |

|                                |      |     |        |       |    |        |
|--------------------------------|------|-----|--------|-------|----|--------|
| Target Compounds               |      |     |        |       |    | Qvalue |
| 2) 1,4-Dioxane                 | 2.31 | 88  | 62424  | 36.80 | ng | # 32   |
| 3) Pyridine                    | 3.05 | 79  | 196723 | 39.62 | ng | 99     |
| 4) n-Nitrosodimethylamine      | 2.97 | 42  | 73010  | 34.32 | ng | 89     |
| 6) Aniline                     | 6.91 | 93  | 172080 | 23.64 | ng | 98     |
| 8) 2-Chlorophenol              | 7.05 | 128 | 196934 | 44.50 | ng | 100    |
| 9) Benzaldehyde                | 6.76 | 77  | 102261 | 29.43 | ng | 90     |
| 10) Phenol                     | 6.90 | 94  | 245831 | 41.09 | ng | 85     |
| 11) bis(2-Chloroethyl)ether    | 7.00 | 93  | 176901 | 40.33 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 7.24 | 146 | 205640 | 41.34 | ng | # 94   |
| 13) 1,4-Dichlorobenzene        | 7.35 | 146 | 202125 | 39.49 | ng | 96     |
| 14) 1,2-Dichlorobenzene        | 7.53 | 146 | 193778 | 40.66 | ng | 96     |
| 15) Benzyl Alcohol             | 7.50 | 79  | 159631 | 41.70 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.68 | 45  | 277392 | 41.34 | ng | 99     |
| 17) 2-Methylphenol             | 7.64 | 107 | 162119 | 45.52 | ng | 98     |
| 18) Hexachloroethane           | 7.94 | 117 | 71336  | 40.46 | ng | 89     |
| 19) n-Nitroso-di-n-propylamine | 7.83 | 70  | 136261 | 39.12 | ng | 95     |
| 20) 3+4-Methylphenols          | 7.84 | 107 | 211502 | 44.57 | ng | # 49   |
| 22) Acetophenone               | 7.83 | 105 | 278877 | 44.80 | ng | 95     |
| 24) Nitrobenzene               | 8.03 | 77  | 201927 | 42.49 | ng | 98     |
| 25) Isophorone                 | 8.33 | 82  | 356558 | 40.12 | ng | 99     |
| 26) 2-Nitrophenol              | 8.43 | 139 | 90244  | 45.88 | ng | 92     |
| 27) 2,4-Dimethylphenol         | 8.49 | 122 | 180126 | 45.77 | ng | 96     |
| 28) bis(2-Chloroethoxy)methane | 8.62 | 93  | 224859 | 41.04 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.73 | 162 | 159786 | 45.66 | ng | 93     |
| 30) 1,2,4-Trichlorobenzene     | 8.83 | 180 | 160038 | 41.63 | ng | 99     |
| 31) Naphthalene                | 8.92 | 128 | 564204 | 42.97 | ng | 99     |
| 32) Benzoic acid               | 8.59 | 122 | 94210  | 39.50 | ng | 96     |
| 33) 4-Chloroaniline            | 8.99 | 127 | 127191 | 22.90 | ng | 99     |
| 34) Hexachlorobutadiene        | 9.07 | 225 | 84731  | 38.27 | ng | 97     |
| 35) Caprolactam                | 9.43 | 113 | 50391  | 44.53 | ng | # 87   |
| 36) 4-Chloro-3-methylphenol    | 9.60 | 107 | 169993 | 46.24 | ng | 98     |
| 37) 2-Methylnaphthalene        | 9.78 | 142 | 386112 | 42.44 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.99 | 216 | 156318 | 41.57 | ng | # 100  |
| 40) Hexachlorocyclopentadiene  | 9.98 | 237 | 153242 | 81.04 | ng | 98     |

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 ALS Vial : 21 Sample Multiplier: 1

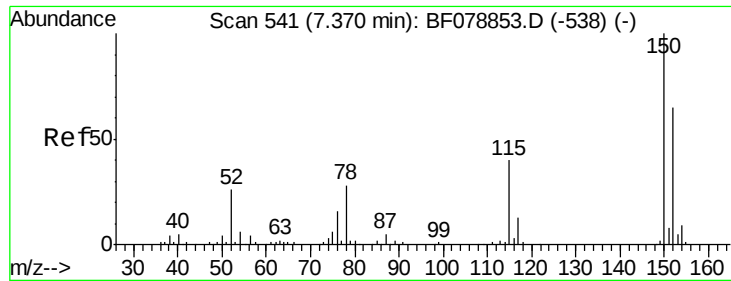
Instrument :  
 BNA\_F  
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Quant Time: May 09 01:10:51 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 10.14 | 196  | 112156   | 43.38 | ng    | 97       |
| 43) 2,4,5-Trichlorophenol      | 10.18 | 196  | 116513   | 44.58 | ng #  | 89       |
| 45) 1,1'-Biphenyl              | 10.36 | 154  | 457509   | 43.10 | ng    | 98       |
| 46) 2-Chloronaphthalene        | 10.39 | 162  | 351736   | 42.48 | ng    | 97       |
| 47) 2-Nitroaniline             | 10.51 | 65   | 104769   | 43.67 | ng    | 97       |
| 48) Acenaphthylene             | 10.90 | 152  | 591656   | 43.52 | ng    | 99       |
| 49) Dimethylphthalate          | 10.75 | 163  | 423059   | 43.17 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 10.82 | 165  | 84268    | 43.57 | ng    | 95       |
| 51) Acenaphthene               | 11.12 | 154  | 332581   | 41.02 | ng    | 99       |
| 52) 3-Nitroaniline             | 11.03 | 138  | 74748    | 30.94 | ng #  | 97       |
| 53) 2,4-Dinitrophenol          | 11.16 | 184  | 58350    | 74.57 | ng #  | 79       |
| 54) Dibenzofuran               | 11.32 | 168  | 500419   | 42.73 | ng    | 96       |
| 55) 4-Nitrophenol              | 11.24 | 139  | 179043   | 93.64 | ng    | 95       |
| 56) 2,4-Dinitrotoluene         | 11.32 | 165  | 119595   | 46.78 | ng #  | 73       |
| 57) Fluorene                   | 11.76 | 166  | 417319   | 43.42 | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 11.48 | 232  | 92002    | 43.07 | ng #  | 100      |
| 59) Diethylphthalate           | 11.63 | 149  | 407471   | 41.97 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 11.76 | 204  | 178300   | 41.82 | ng    | 90       |
| 61) 4-Nitroaniline             | 11.78 | 138  | 100615   | 41.63 | ng    | 94       |
| 62) Azobenzene                 | 11.95 | 77   | 412785   | 43.15 | ng    | 93       |
| 64) 4,6-Dinitro-2-methylphenol | 11.83 | 198  | 41936    | 42.10 | ng #  | 59       |
| 65) n-Nitrosodiphenylamine     | 11.91 | 169  | 352936   | 42.12 | ng    | 98       |
| 66) 4-Bromophenyl-phenylether  | 12.37 | 248  | 113607   | 43.32 | ng #  | 84       |
| 67) Hexachlorobenzene          | 12.43 | 284  | 129347   | 43.16 | ng #  | 84       |
| 68) Atrazine                   | 12.58 | 200  | 113427   | 46.55 | ng    | 98       |
| 69) Pentachlorophenol          | 12.69 | 266  | 117945   | 68.35 | ng    | 99       |
| 70) Phenanthrene               | 12.95 | 178  | 597051   | 42.42 | ng    | 100      |
| 71) Anthracene                 | 13.02 | 178  | 620991   | 44.97 | ng    | 98       |
| 72) Carbazole                  | 13.22 | 167  | 596205   | 45.30 | ng    | 99       |
| 73) Di-n-butylphthalate        | 13.67 | 149  | 700196   | 44.36 | ng #  | 97       |
| 74) Fluoranthene               | 14.43 | 202  | 639844   | 43.63 | ng    | 91       |
| 76) Benzidine                  | 14.61 | 184  | 300849   | 45.89 | ng    | 98       |
| 77) Pyrene                     | 14.71 | 202  | 641167   | 45.74 | ng    | 99       |
| 79) Butylbenzylphthalate       | 15.53 | 149  | 295353   | 48.20 | ng    | 95       |
| 80) Benzo(a)anthracene         | 16.21 | 228  | 611438   | 45.90 | ng    | 100      |
| 81) 3,3'-Dichlorobenzidine     | 16.17 | 252  | 136854   | 28.84 | ng #  | 96       |
| 82) Chrysene                   | 16.25 | 228  | 541866   | 42.29 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 16.25 | 149  | 432163   | 46.56 | ng    | 100      |
| 84) Di-n-octyl phthalate       | 17.04 | 149  | 745317   | 45.59 | ng #  | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 19.43 | 276  | 691471   | 42.36 | ng #  | 100      |
| 87) Benzo(b)fluoranthene       | 17.50 | 252  | 586114   | 44.31 | ng #  | 97       |
| 88) Benzo(k)fluoranthene       | 17.50 | 252  | 586114   | 45.77 | ng #  | 96       |
| 89) Benzo(a)pyrene             | 17.87 | 252  | 558779   | 45.88 | ng #  | 96       |
| 90) Dibenzo(a,h)anthracene     | 19.45 | 278  | 554778   | 42.86 | ng    | 97       |
| 91) Benzo(g,h,i)perylene       | 19.86 | 276  | 558776   | 43.07 | ng    | 96       |

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



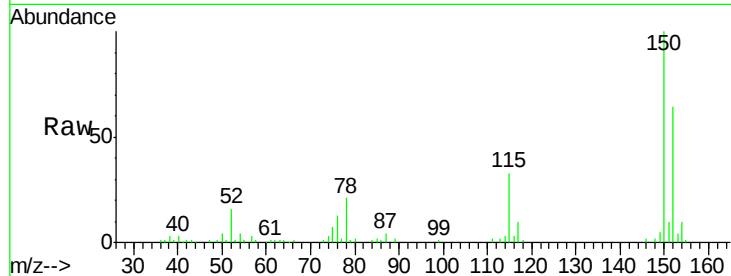


#1

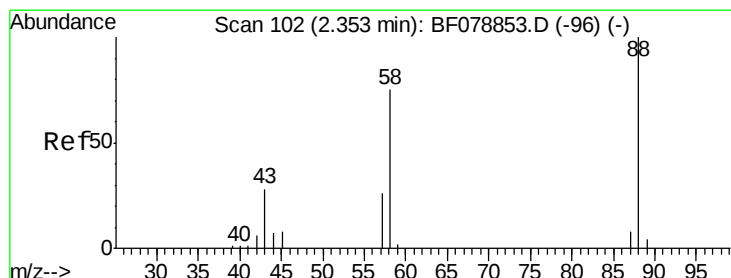
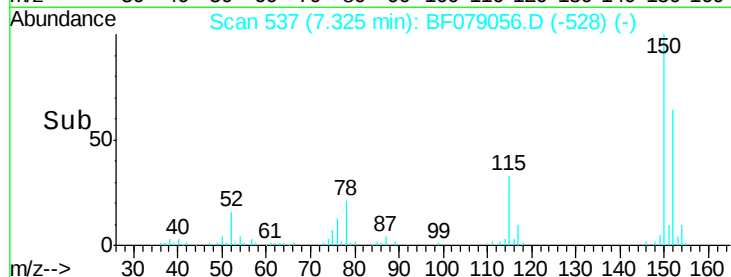
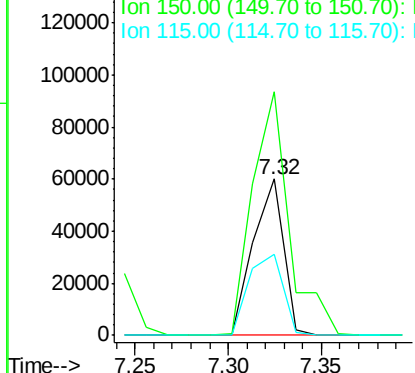
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.32 min Scan# 537  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Instrument :  
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Tgt Ion:152 Resp: 67162  
Ion Ratio Lower Upper  
152 100  
150 156.0 122.0 183.0  
115 52.0 46.3 69.5



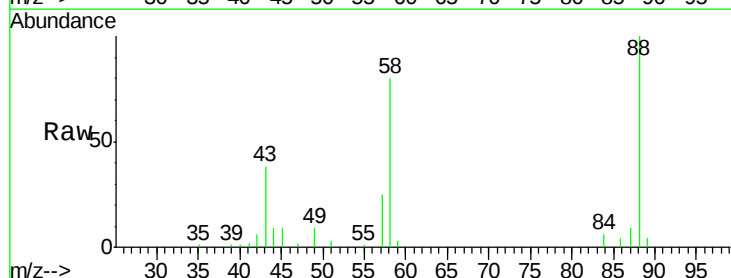
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



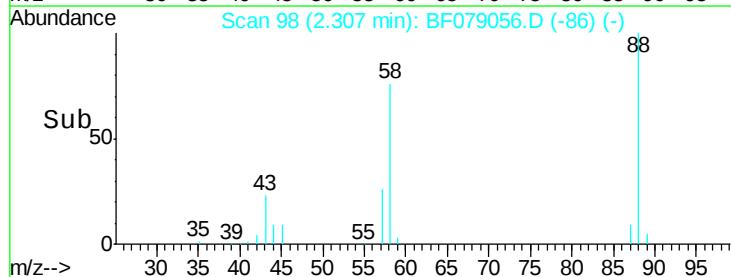
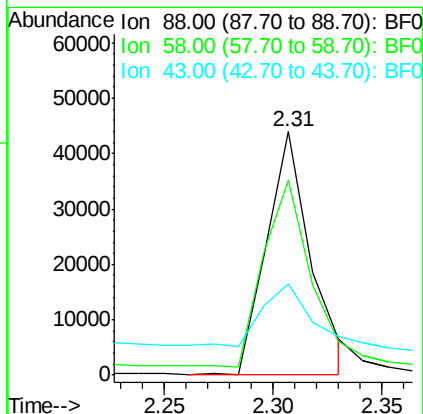
#2

1,4-Dioxane  
Concen: 36.80 ng  
RT: 2.31 min Scan# 98  
Delta R.T. 0.03 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion: 88 Resp: 62424  
Ion Ratio Lower Upper  
88 100  
58 80.5 0.0 0.0#  
43 26.6 3.3 4.9#



Abundance Ion 88.00 (87.70 to 88.70): BF0  
Ion 58.00 (57.70 to 58.70): BF0  
Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 39.62 ng

RT: 3.05 min Scan# 163

Delta R.T. 0.02 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

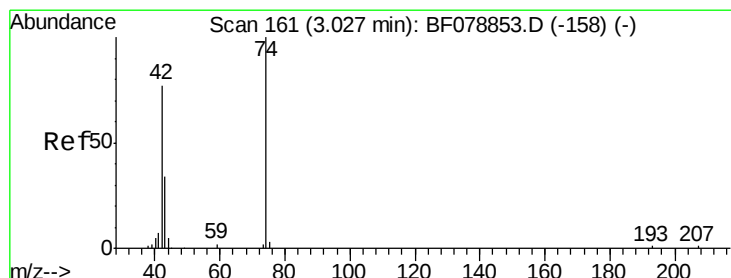
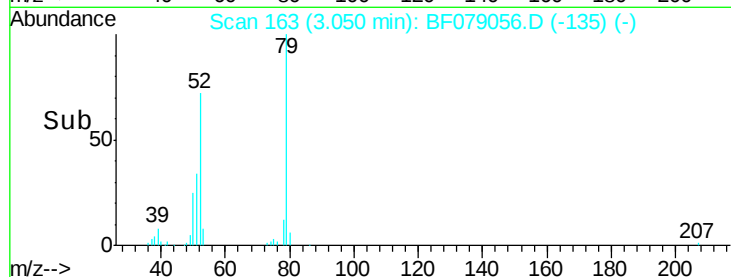
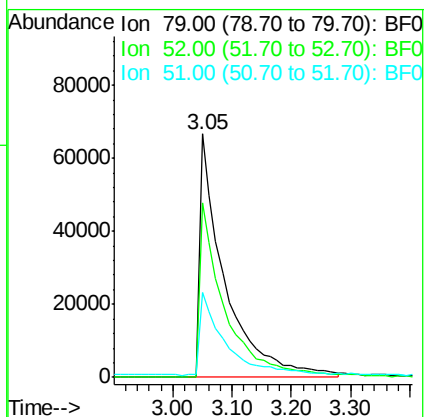
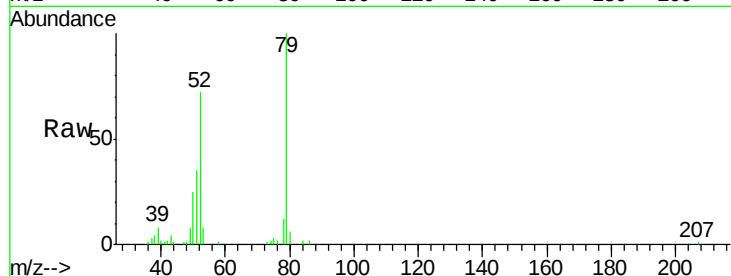
Tgt Ion: 79 Resp: 196723

Ion Ratio Lower Upper

79 100

52 71.8 57.2 85.8

51 35.0 28.9 43.3



#4

n-Nitrosodimethylamine

Concen: 34.32 ng

RT: 2.97 min Scan# 156

Delta R.T. 0.02 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

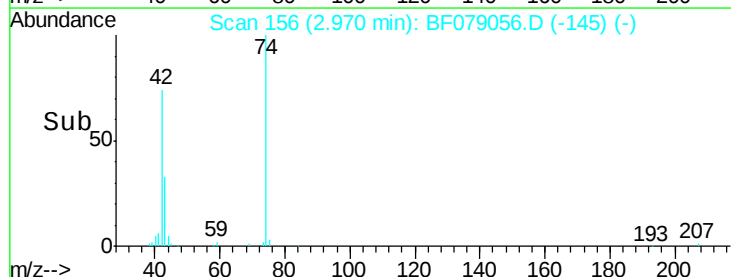
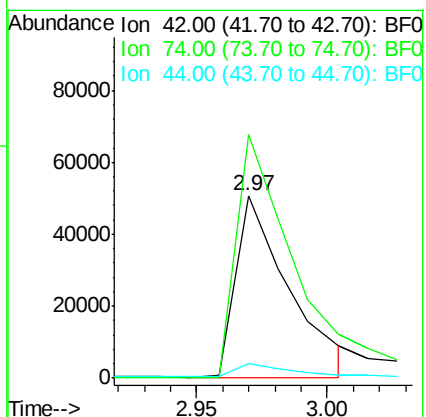
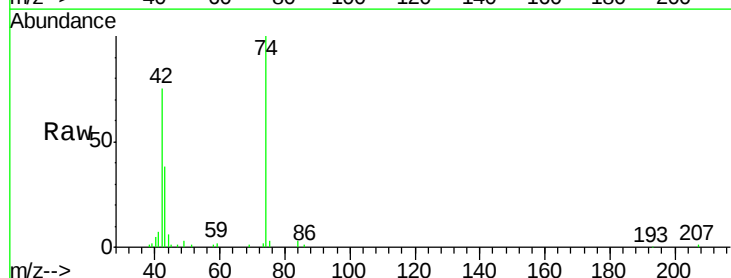
Tgt Ion: 42 Resp: 73010

Ion Ratio Lower Upper

42 100

74 133.6 96.5 144.7

44 8.0 6.1 9.1





#5

2-Fluorophenol

Concen: 129.63 ng

RT: 5.62 min Scan# 388

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

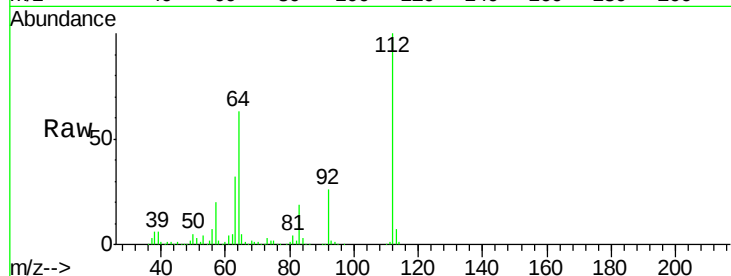
Tgt Ion: 112 Resp: 505771

Ion Ratio Lower Upper

112 100

64 63.4 53.5 80.3

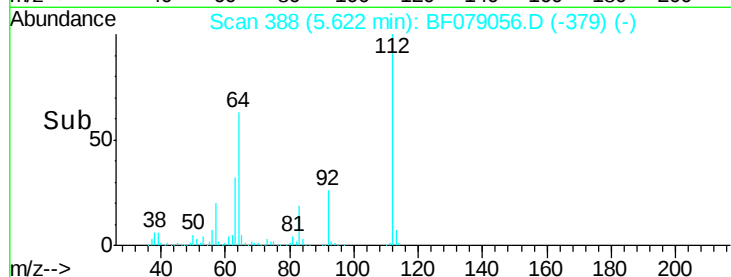
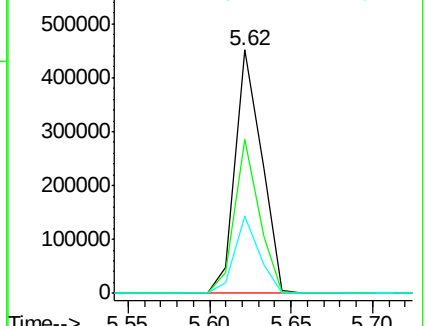
63 31.9 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 23.64 ng

RT: 6.91 min Scan# 501

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

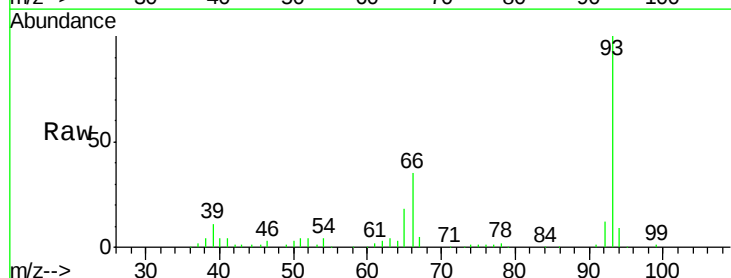
Tgt Ion: 93 Resp: 172080

Ion Ratio Lower Upper

93 100

66 35.3 29.7 44.5

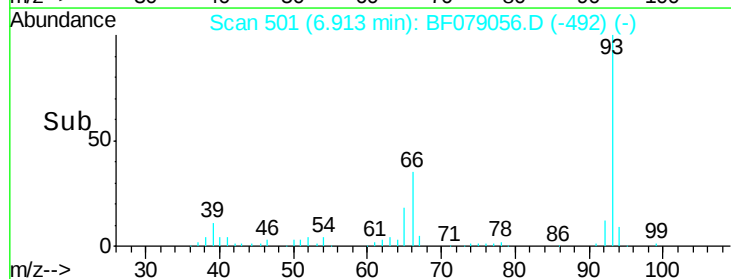
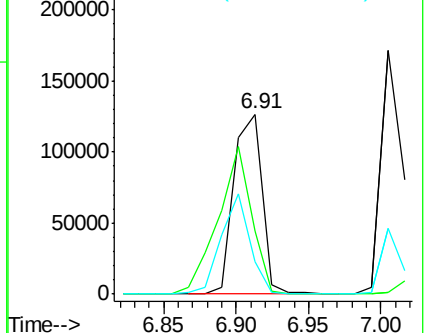
65 17.9 14.6 22.0



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 126.77 ng

RT: 6.88 min Scan# 498

Delta R.T. -0.01 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

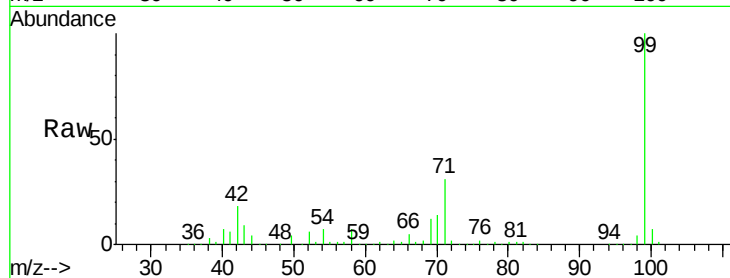
Tgt Ion: 99 Resp: 653800

Ion Ratio Lower Upper

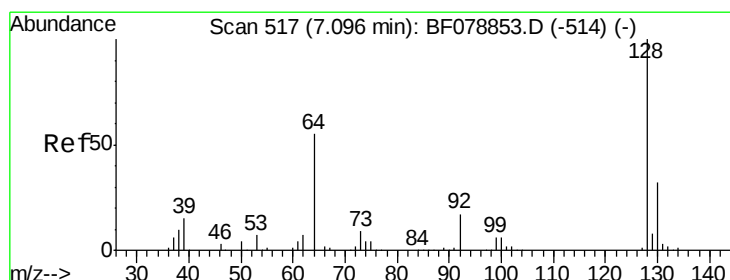
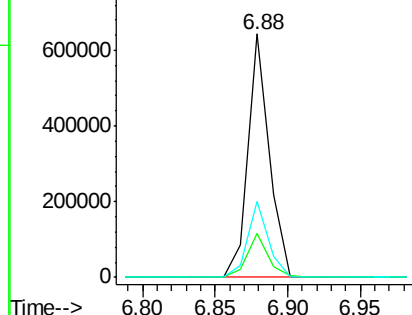
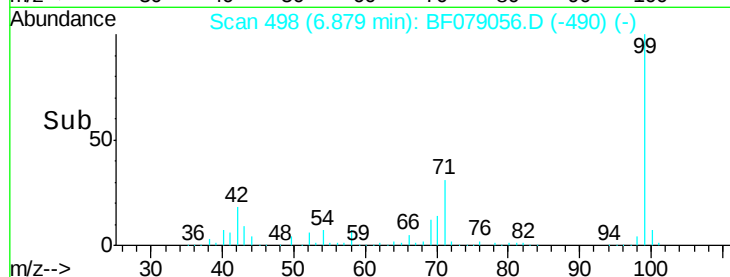
99 100

42 18.1 12.8 19.2

71 31.2 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 44.50 ng

RT: 7.05 min Scan# 513

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

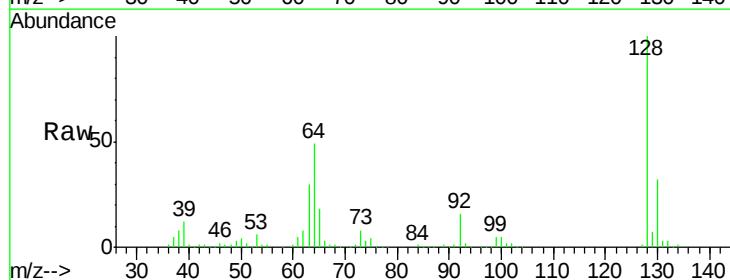
Tgt Ion: 128 Resp: 196934

Ion Ratio Lower Upper

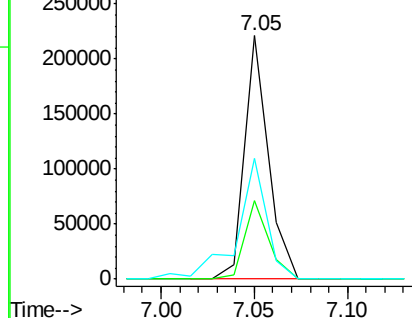
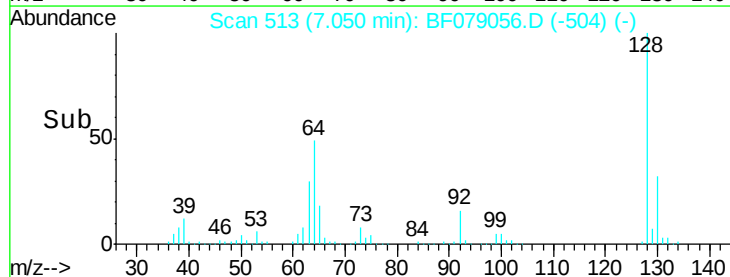
128 100

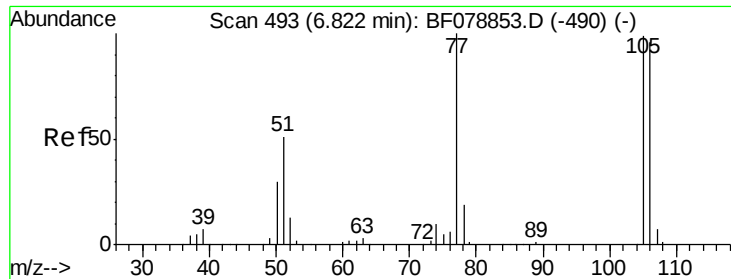
130 32.0 12.1 52.1

64 49.5 29.6 69.6



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): BF0





#9

Benzaldehyde

Concen: 29.43 ng

RT: 6.76 min Scan# 488

Delta R.T. -0.01 min

Lab File: BF079056.D

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BNA\_F

ClientSampleId :

PB83273BS

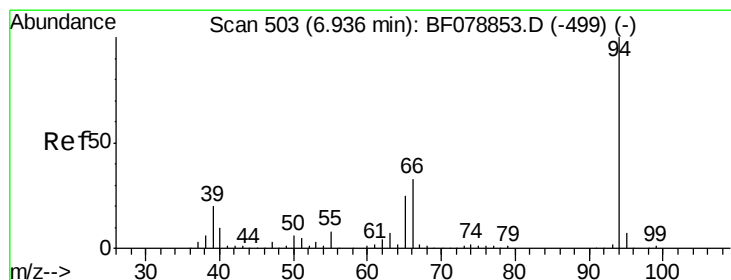
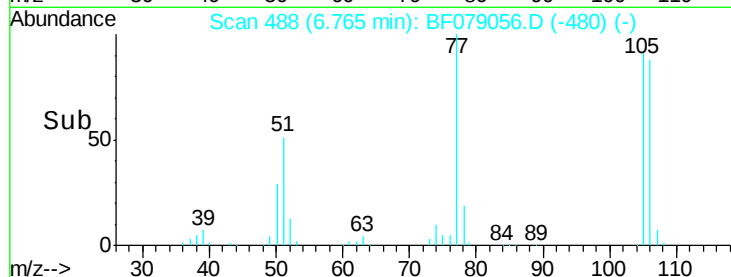
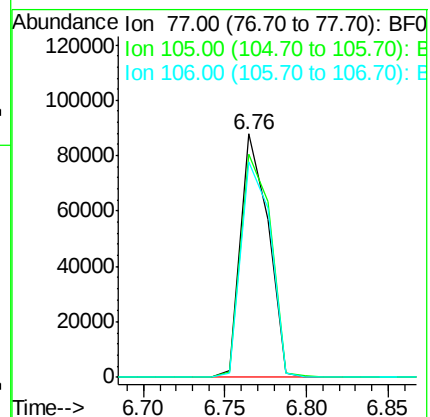
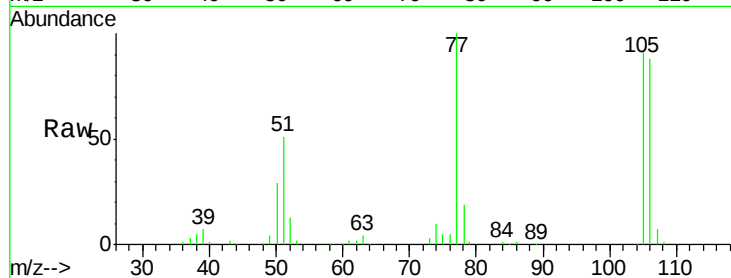
Tgt Ion: 77 Resp: 102261

Ion Ratio Lower Upper

77 100

105 91.5 81.7 121.7

106 88.3 79.0 119.0



#10

Phenol

Concen: 41.09 ng

RT: 6.90 min Scan# 500

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

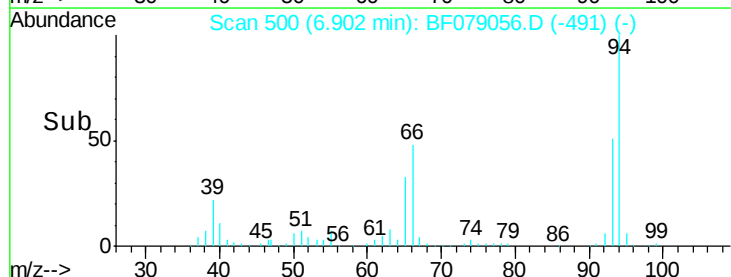
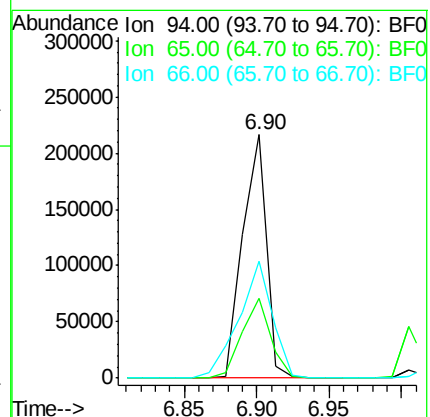
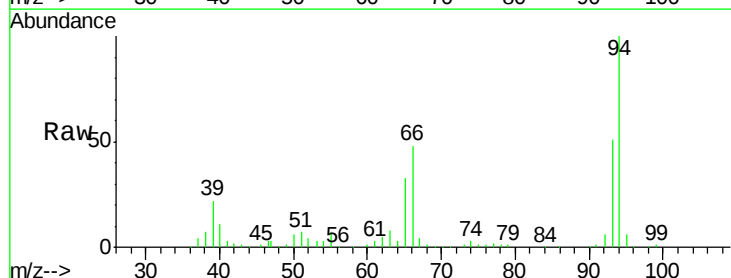
Tgt Ion: 94 Resp: 245831

Ion Ratio Lower Upper

94 100

65 32.6 8.5 48.5

66 47.8 16.0 56.0

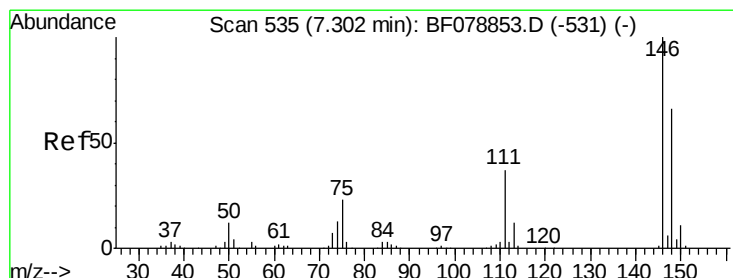
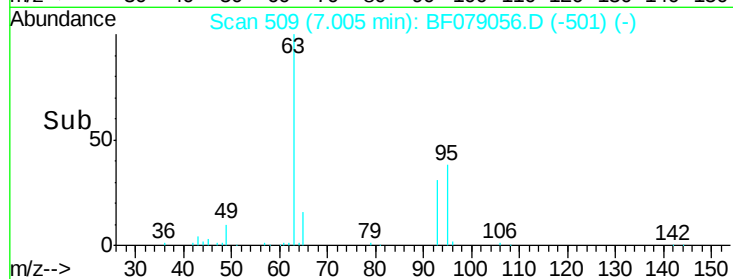
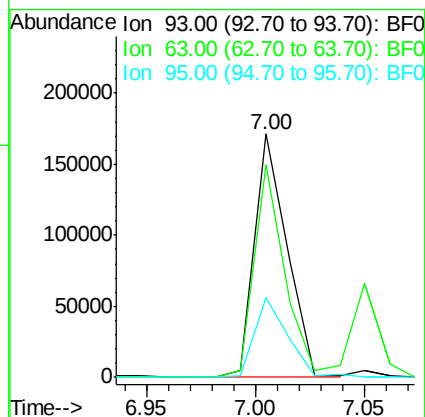
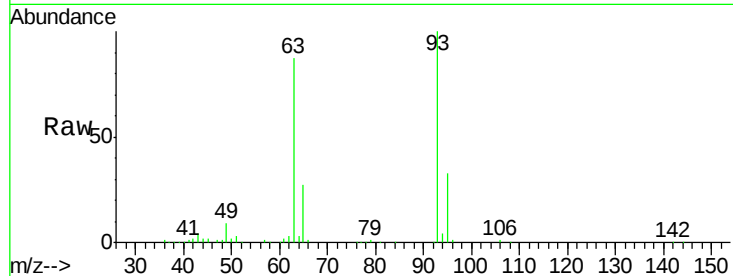




#11  
bis(2-Chloroethyl)ether  
Concen: 40.33 ng  
RT: 7.00 min Scan# 509  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

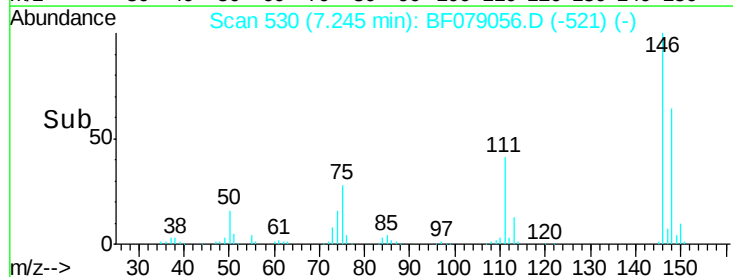
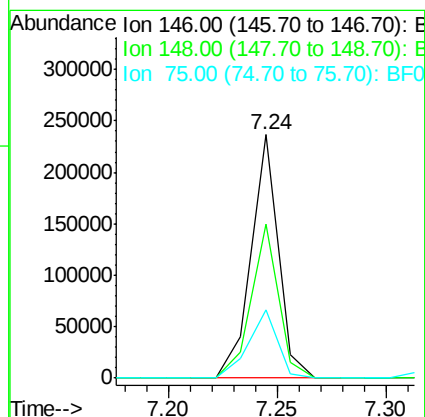
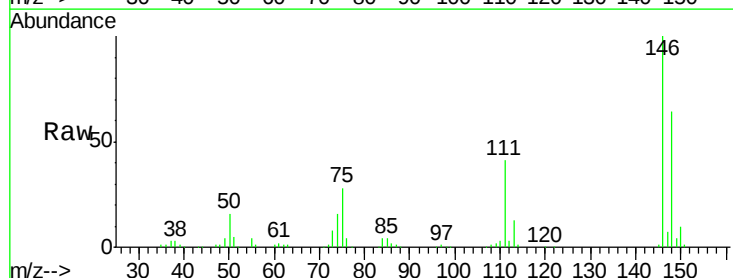
Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

Tgt Ion: 93 Resp: 176901  
Ion Ratio Lower Upper  
93 100  
63 87.2 64.8 104.8  
95 32.7 12.4 52.4



#12  
1,3-Dichlorobenzene  
Concen: 41.34 ng  
RT: 7.24 min Scan# 530  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion: 146 Resp: 205640  
Ion Ratio Lower Upper  
146 100  
148 63.5 50.2 75.2  
75 28.1 29.2 43.8#

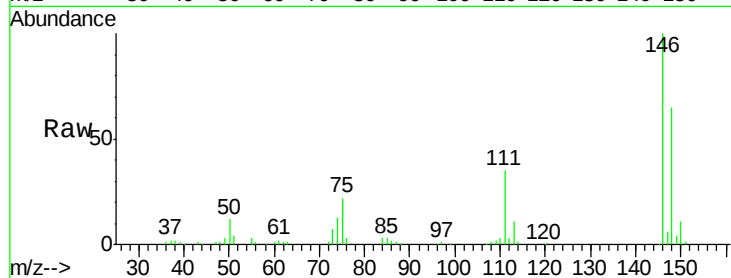




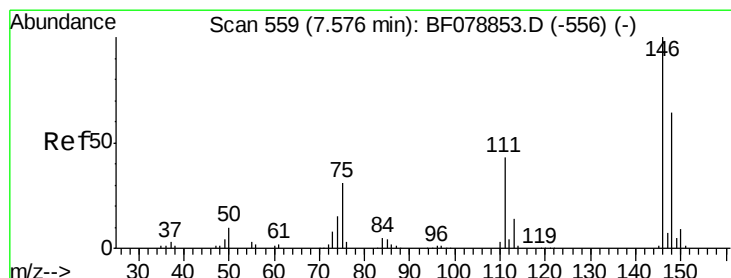
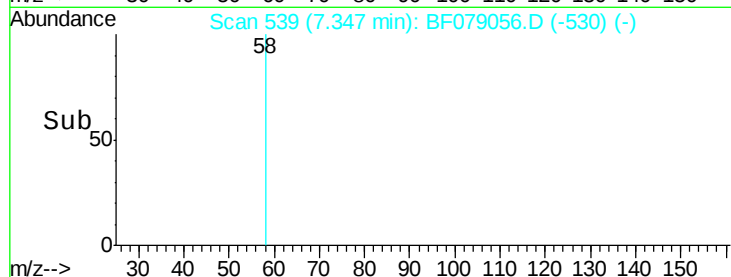
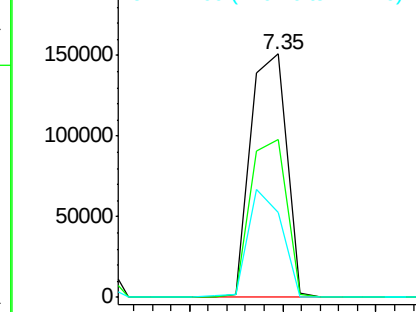
#13  
 1,4-Dichlorobenzene  
 Concen: 39.49 ng  
 RT: 7.35 min Scan# 539  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

Tgt Ion:146 Resp: 202125  
 Ion Ratio Lower Upper  
 146 100  
 148 65.0 52.8 79.2  
 111 34.9 31.7 47.5

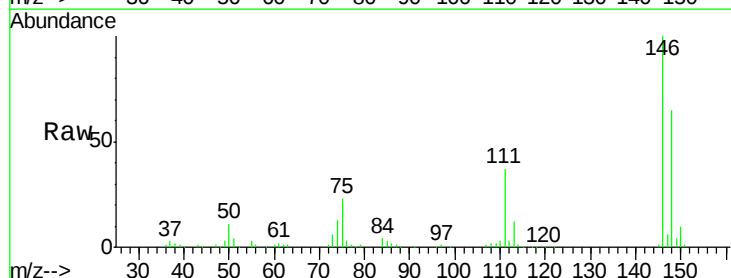


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

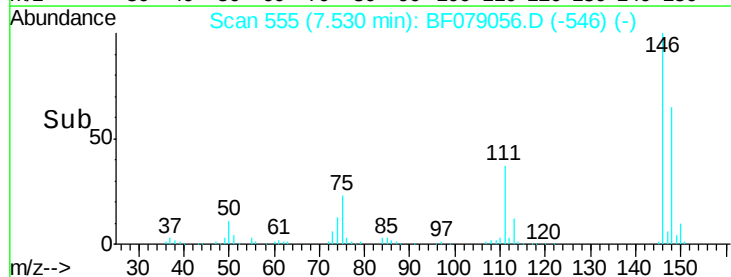
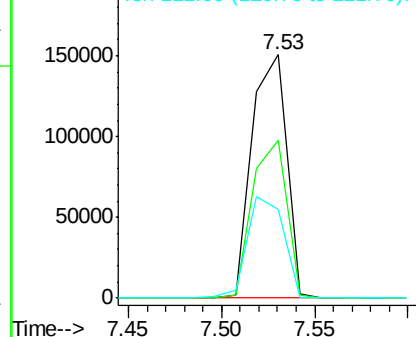


#14  
 1,2-Dichlorobenzene  
 Concen: 40.66 ng  
 RT: 7.53 min Scan# 555  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:146 Resp: 193778  
 Ion Ratio Lower Upper  
 146 100  
 148 64.6 51.2 76.8  
 111 36.7 33.3 49.9



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





#15

Benzyl Alcohol

Concen: 41.70 ng

RT: 7.50 min Scan# 552

Delta R.T. -0.01 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

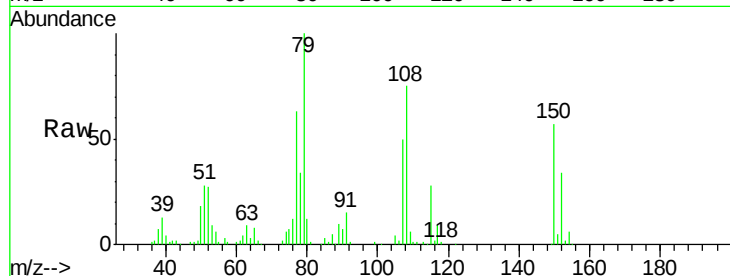
Tgt Ion: 79 Resp: 159631

Ion Ratio Lower Upper

79 100

108 75.1 62.5 93.7

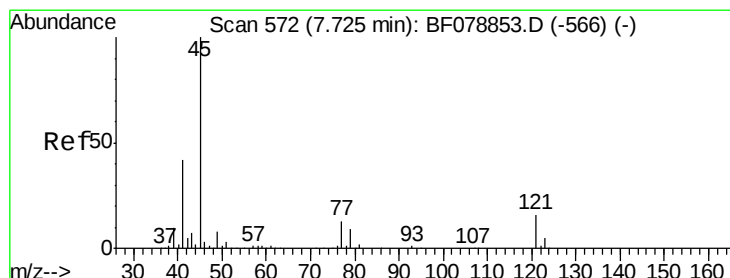
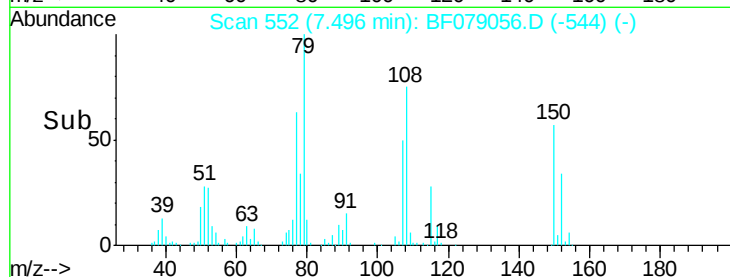
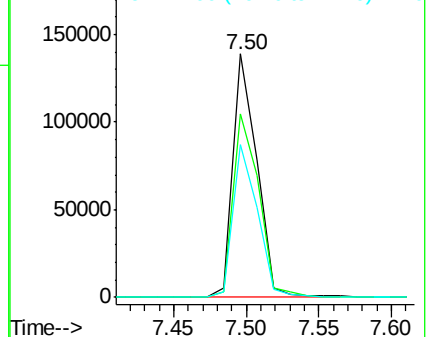
77 62.9 52.2 78.4



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 41.34 ng

RT: 7.68 min Scan# 568

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

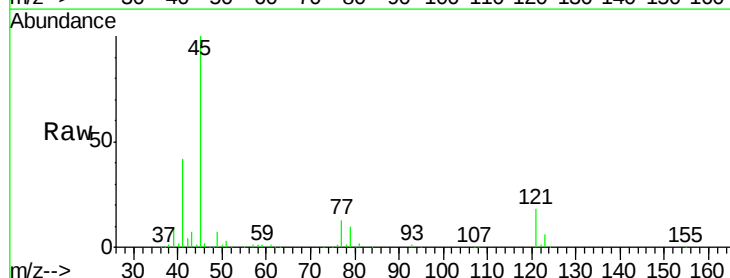
Tgt Ion: 45 Resp: 277392

Ion Ratio Lower Upper

45 100

77 12.6 0.0 32.3

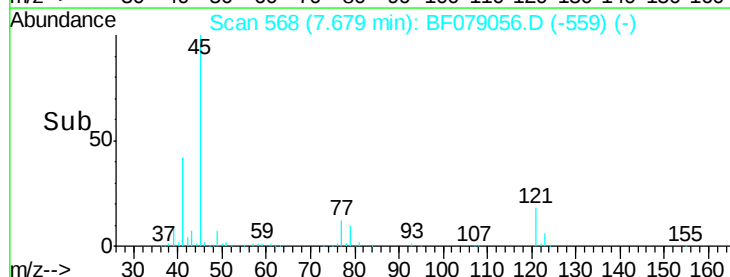
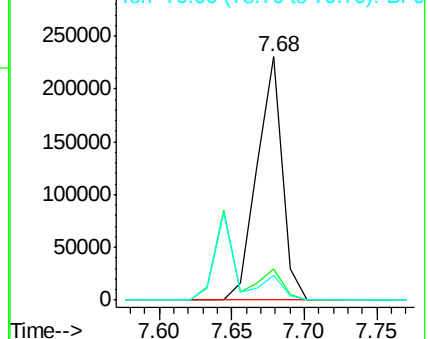
79 10.2 0.0 30.1

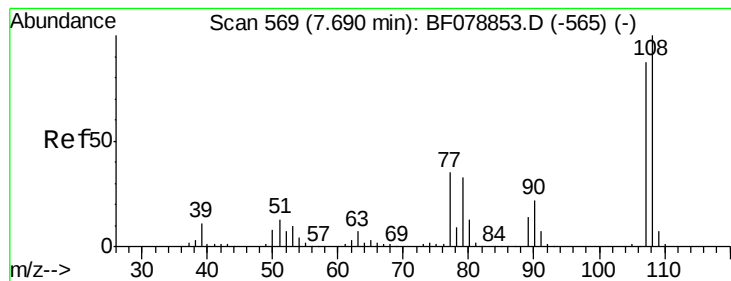


Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

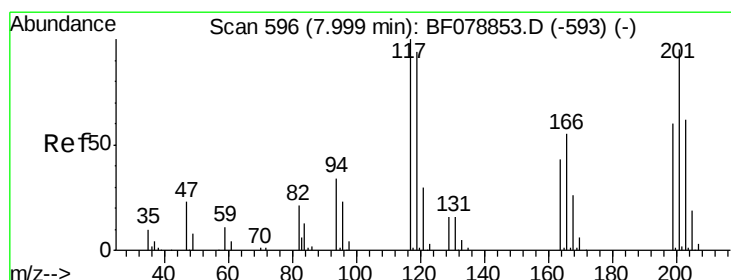
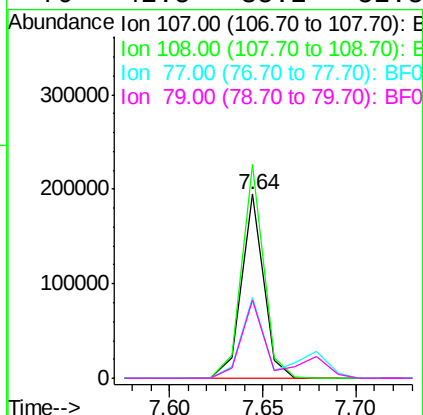
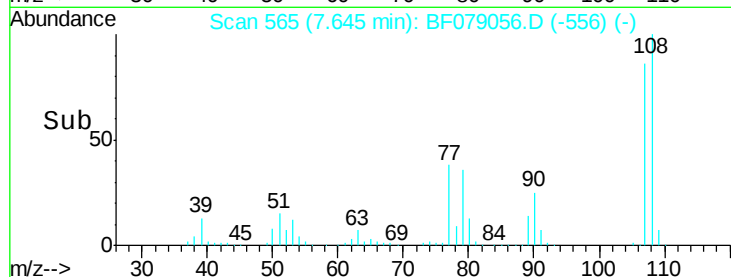
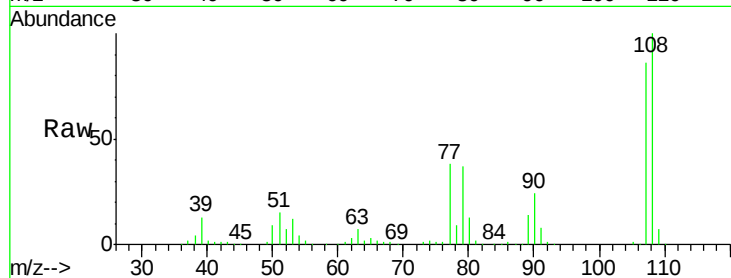




#17  
2-Methylphenol  
Concen: 45.52 ng  
RT: 7.64 min Scan# 565  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

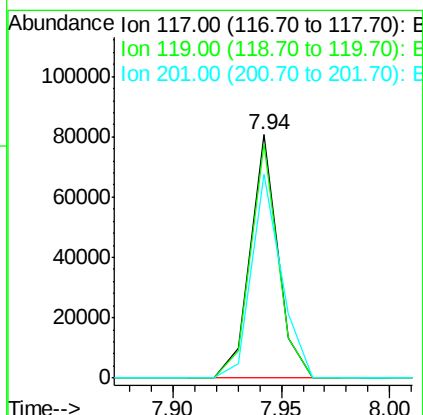
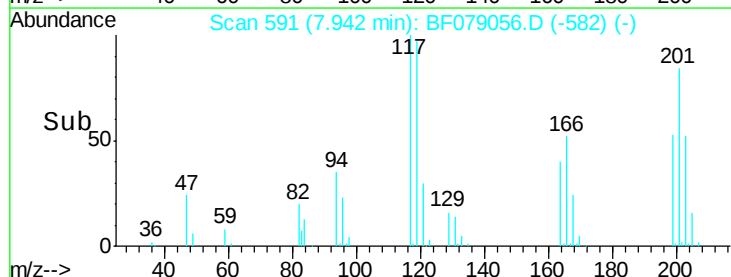
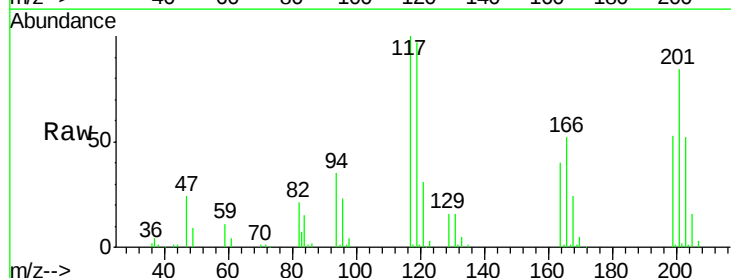
Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

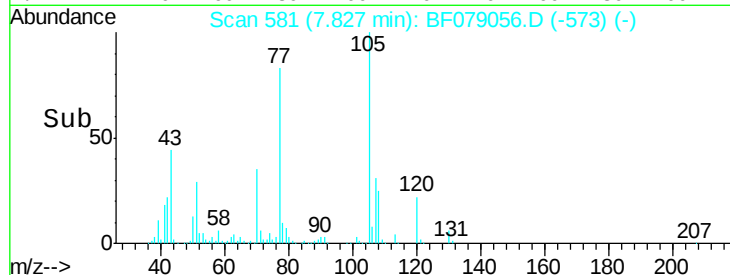
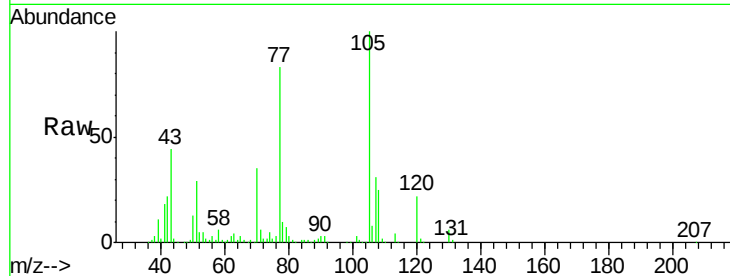
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 162119 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 116.0 | 94.9  | 142.3  |
| 77       | 43.8  | 36.2  | 54.4   |
| 79       | 42.5  | 35.2  | 52.8   |



#18  
Hexachloroethane  
Concen: 40.46 ng  
RT: 7.94 min Scan# 591  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 71336 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 96.6  | 75.4  | 113.0 |
| 201      | 83.9  | 83.2  | 124.8 |

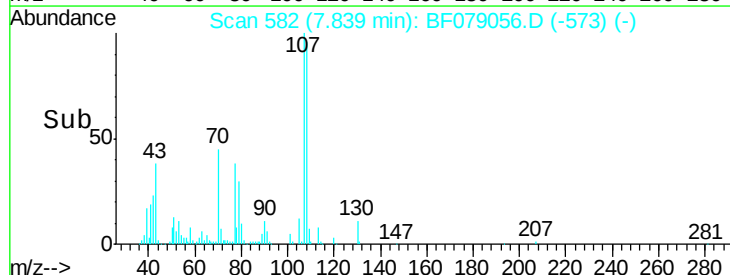
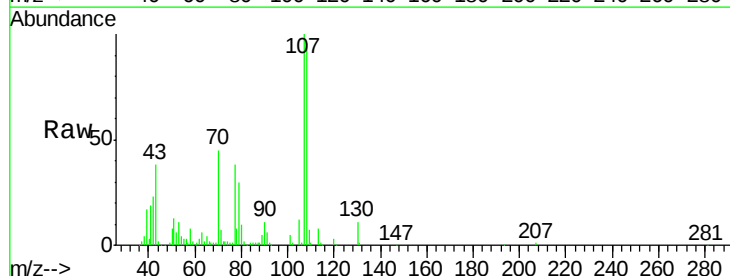
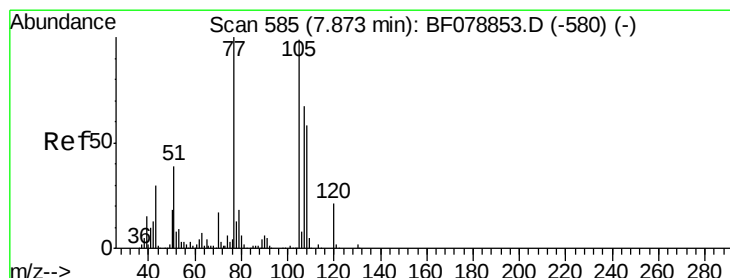
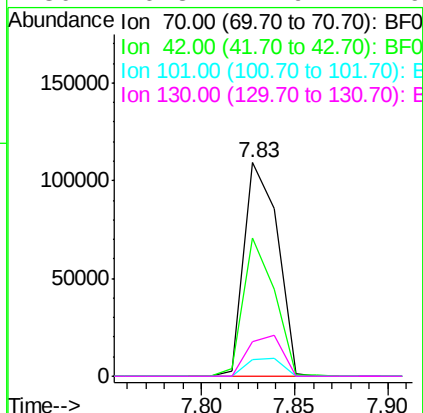




#19  
n-Nitroso-di-n-propylamine  
Concen: 39.12 ng  
RT: 7.83 min Scan# 581  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

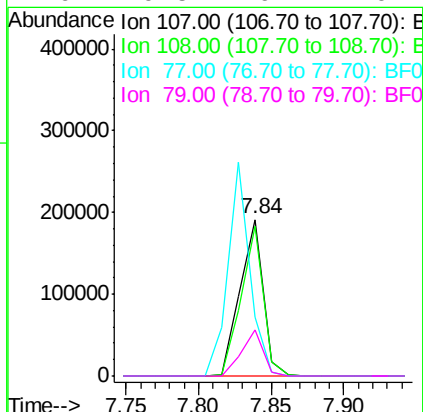
Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

Tgt Ion: 70 Resp: 136261  
Ion Ratio Lower Upper  
70 100  
42 64.6 55.4 83.0  
101 8.1 6.6 10.0  
130 16.3 11.9 17.9



#20  
3+4-Methylphenols  
Concen: 44.57 ng  
RT: 7.84 min Scan# 582  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion: 107 Resp: 211502  
Ion Ratio Lower Upper  
107 100  
108 96.0 76.9 116.9  
77 37.8 136.8 176.8#  
79 29.5 9.7 49.7

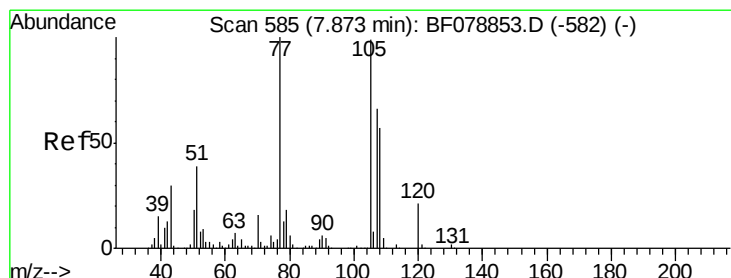
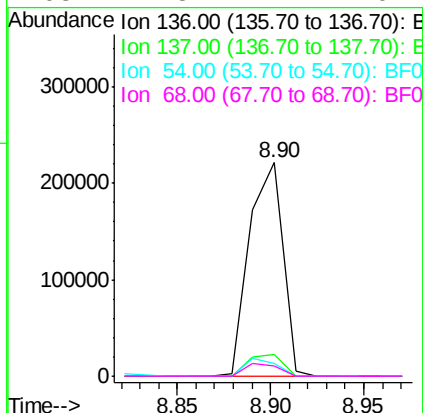
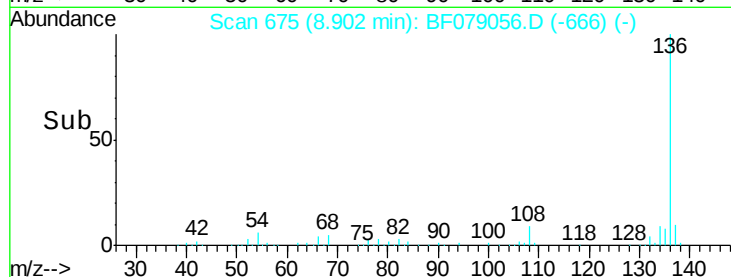
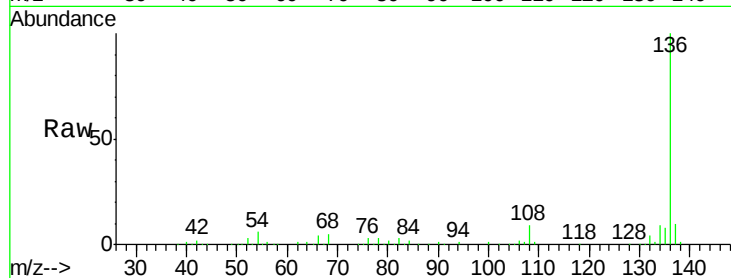




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.90 min Scan# 675  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

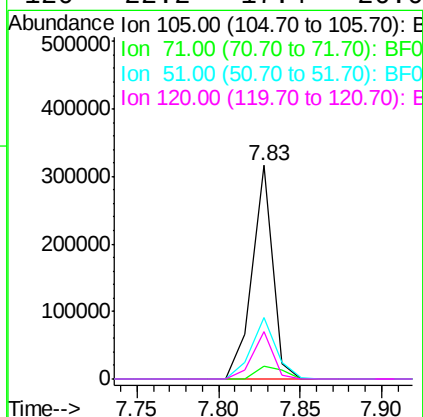
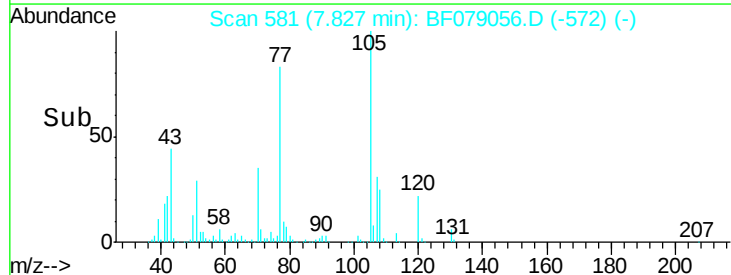
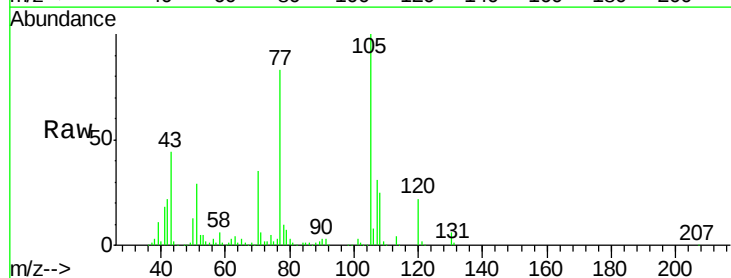
Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 275529 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 8.7   | 13.1   |
| 54       | 6.0   | 5.8   | 8.8    |
| 68       | 4.8   | 4.2   | 6.4    |



#22  
Acetophenone  
Concen: 44.80 ng  
RT: 7.83 min Scan# 581  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 278877 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 6.0   | 4.6   | 6.8    |
| 51       | 28.7  | 26.7  | 40.1   |
| 120      | 22.2  | 17.4  | 26.0   |

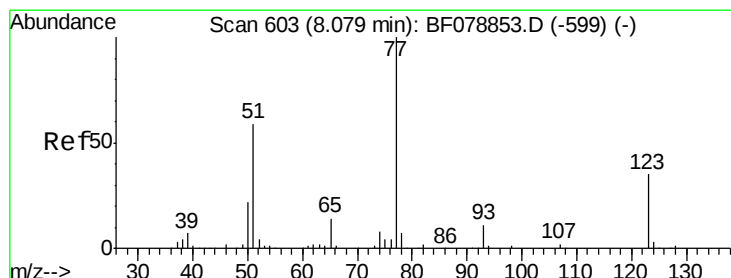
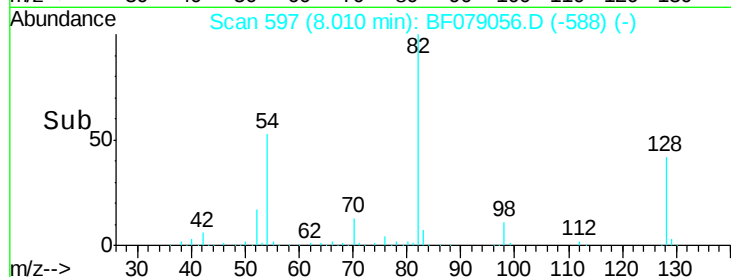
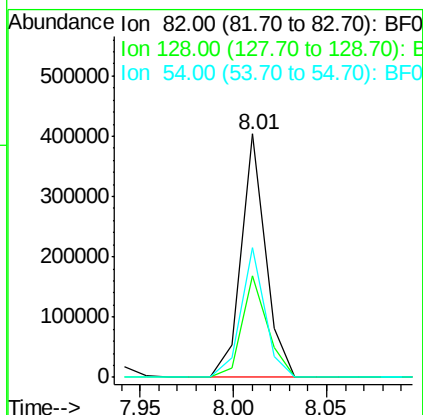
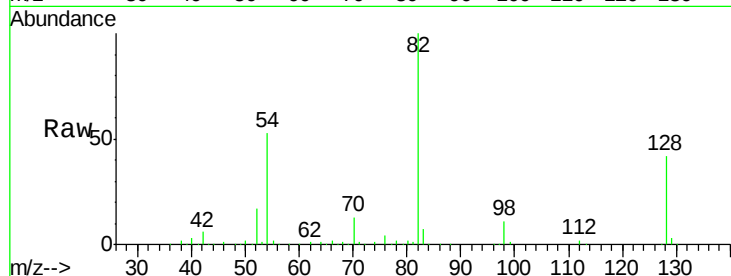




#23  
Nitrobenzene-d5  
Concen: 77.34 ng  
RT: 8.01 min Scan# 597  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

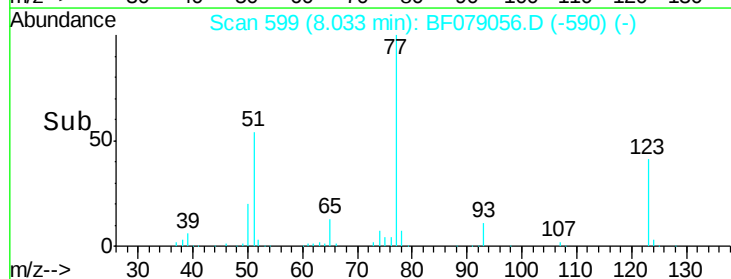
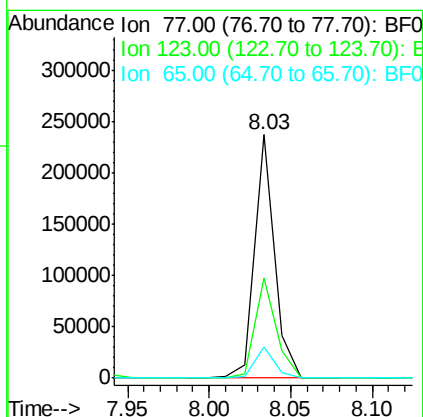
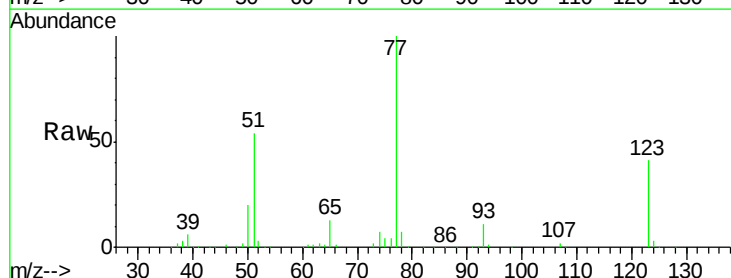
Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

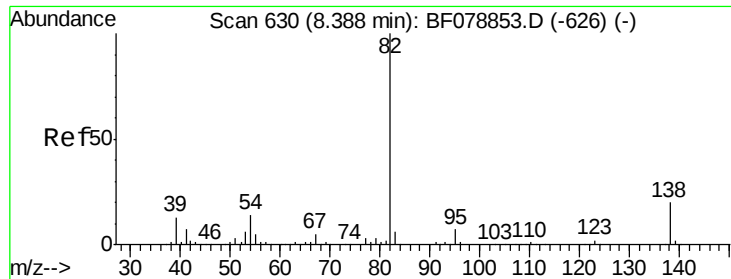
Tgt Ion: 82 Resp: 370792  
Ion Ratio Lower Upper  
82 100  
128 41.9 30.0 45.0  
54 53.3 46.4 69.6



#24  
Nitrobenzene  
Concen: 42.49 ng  
RT: 8.03 min Scan# 599  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion: 77 Resp: 201927  
Ion Ratio Lower Upper  
77 100  
123 41.4 31.8 47.8  
65 12.8 10.6 15.8





#25

Isophorone

Concen: 40.12 ng

RT: 8.33 min Scan# 625

Delta R.T. -0.01 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

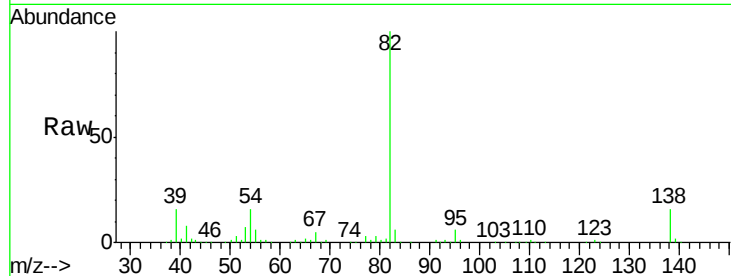
Tgt Ion: 82 Resp: 356558

Ion Ratio Lower Upper

82 100

95 6.5 5.3 7.9

138 15.6 12.0 18.0

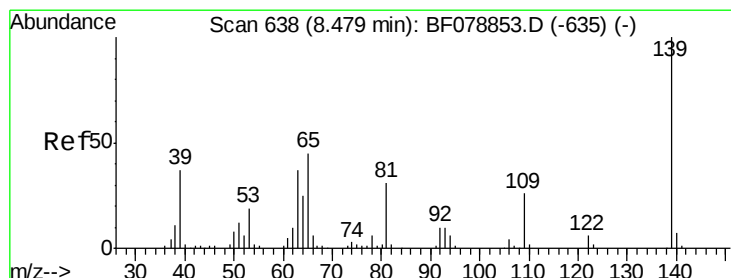
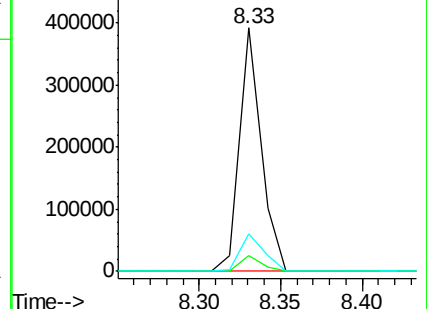
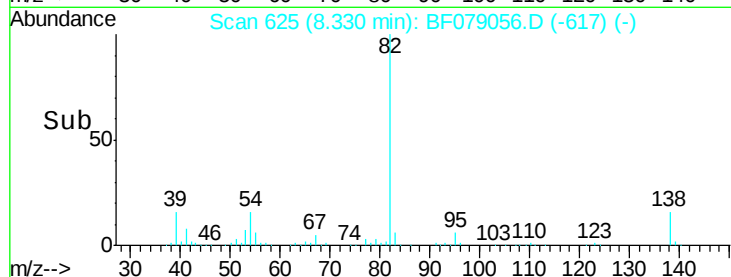


Abundance Ion 82.00 (81.70 to 82.70): BF078853.D (-626) (-)

Ion 95.00 (94.70 to 95.70): BF078853.D (-626) (-)

Ion 138.00 (137.70 to 138.70): BF078853.D (-626) (-)

Time-->



#26

2-Nitrophenol

Concen: 45.88 ng

RT: 8.43 min Scan# 634

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

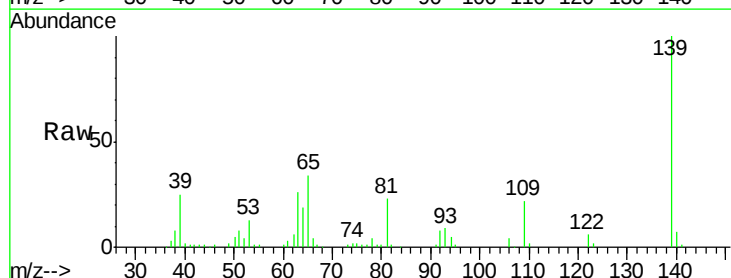
Tgt Ion: 139 Resp: 90244

Ion Ratio Lower Upper

139 100

109 21.6 21.0 31.4

65 33.7 30.5 45.7

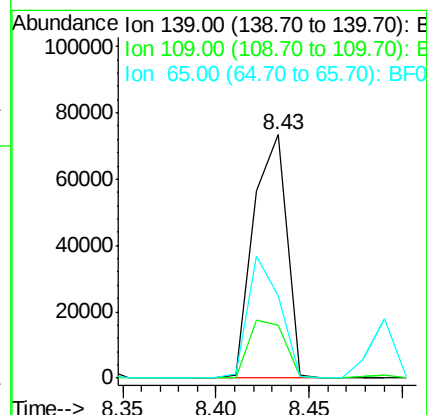
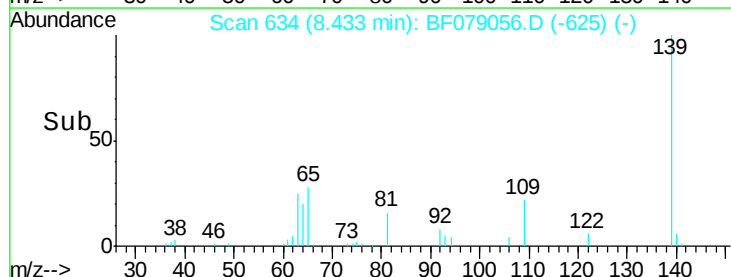


Abundance Ion 139.00 (138.70 to 139.70): BF078853.D (-635) (-)

Ion 109.00 (108.70 to 109.70): BF078853.D (-635) (-)

Ion 65.00 (64.70 to 65.70): BF078853.D (-635) (-)

Time-->

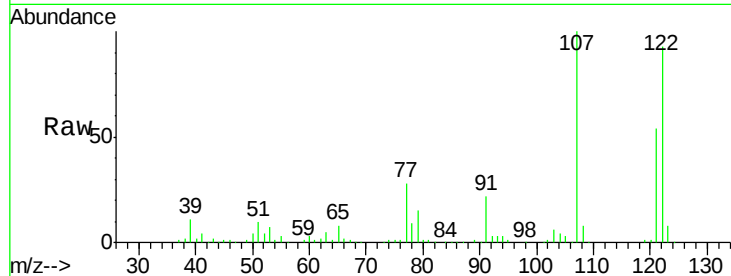




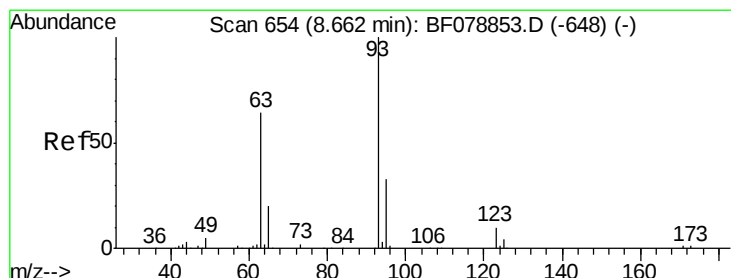
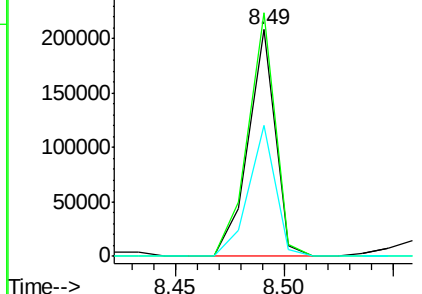
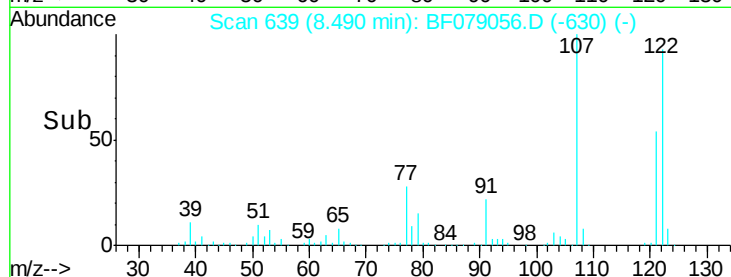
#27  
 2,4-Dimethylphenol  
 Concen: 45.77 ng  
 RT: 8.49 min Scan# 639  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

Tgt Ion:122 Resp: 180126  
 Ion Ratio Lower Upper  
 122 100  
 107 107.5 90.6 135.8  
 121 57.8 45.4 68.2

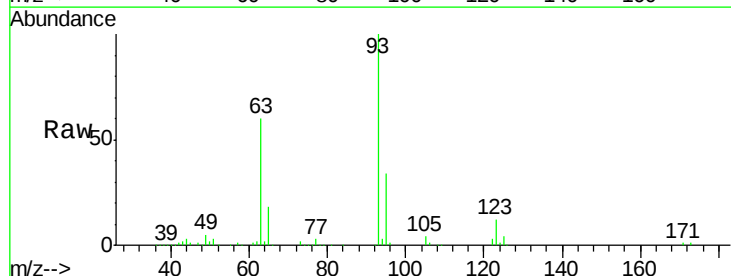


Abundance Ion 122.00 (121.70 to 122.70): E  
 Ion 107.00 (106.70 to 107.70): E  
 Ion 121.00 (120.70 to 121.70): E

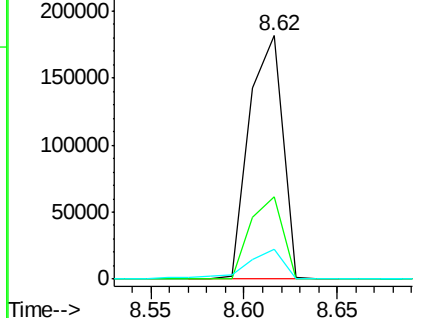
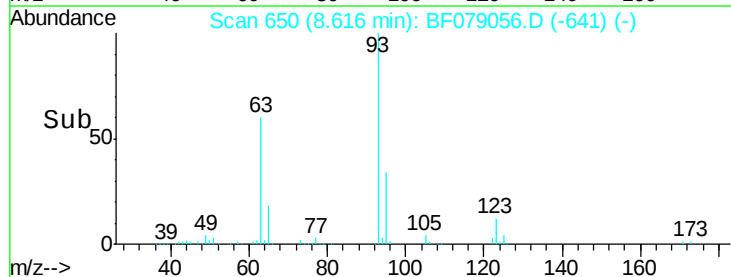


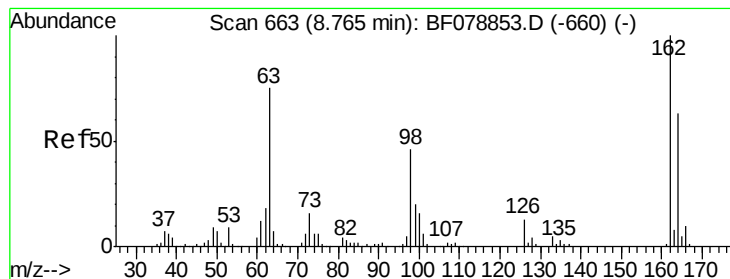
#28  
 bis(2-Chloroethoxy)methane  
 Concen: 41.04 ng  
 RT: 8.62 min Scan# 650  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion: 93 Resp: 224859  
 Ion Ratio Lower Upper  
 93 100  
 95 33.7 26.7 40.1  
 123 12.2 9.1 13.7



Abundance Ion 93.00 (92.70 to 93.70): BF0  
 Ion 95.00 (94.70 to 95.70): BF0  
 Ion 123.00 (122.70 to 123.70): E





#29

2,4-Dichlorophenol

Concen: 45.66 ng

RT: 8.73 min Scan# 660

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

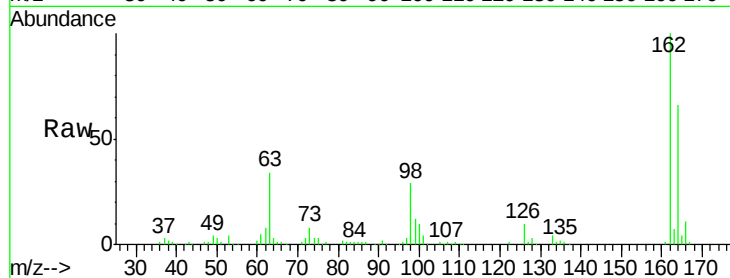
Tgt Ion:162 Resp: 159786

Ion Ratio Lower Upper

162 100

164 66.3 43.6 83.6

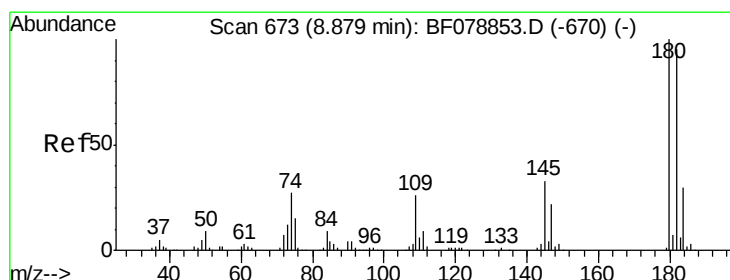
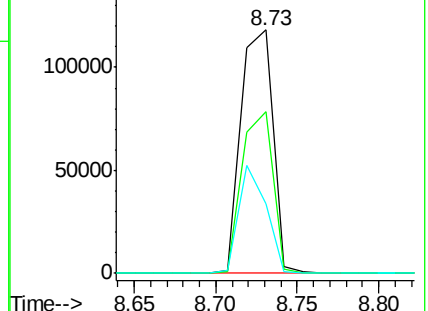
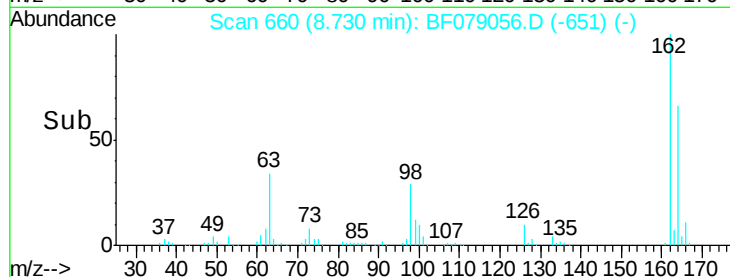
98 28.6 16.5 56.5



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF0



#30

1,2,4-Trichlorobenzene

Concen: 41.63 ng

RT: 8.83 min Scan# 669

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

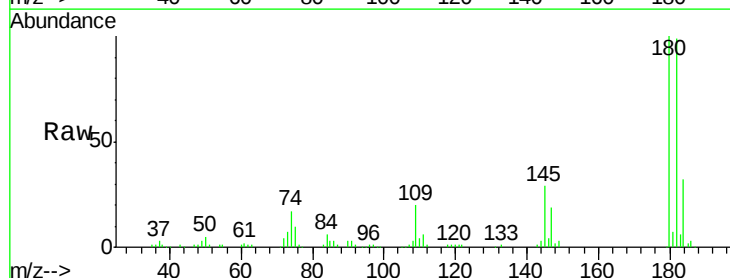
Tgt Ion:180 Resp: 160038

Ion Ratio Lower Upper

180 100

182 99.1 78.9 118.3

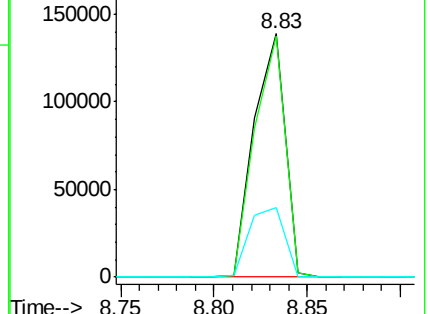
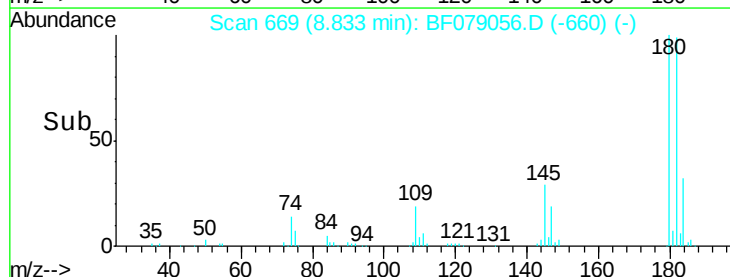
145 28.7 24.2 36.4

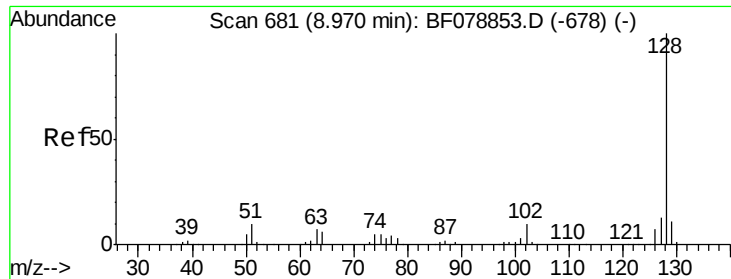


Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E

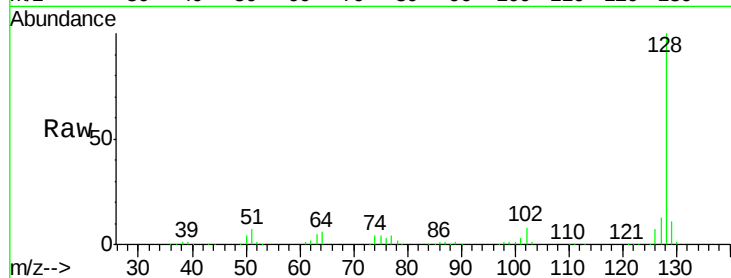




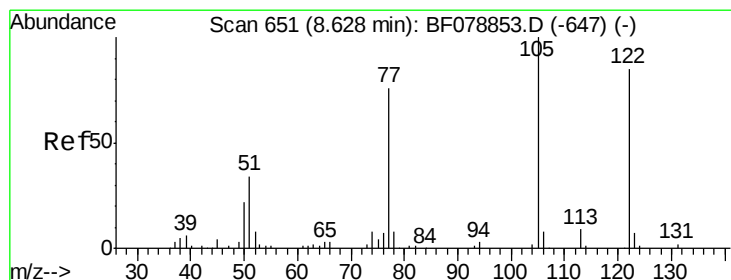
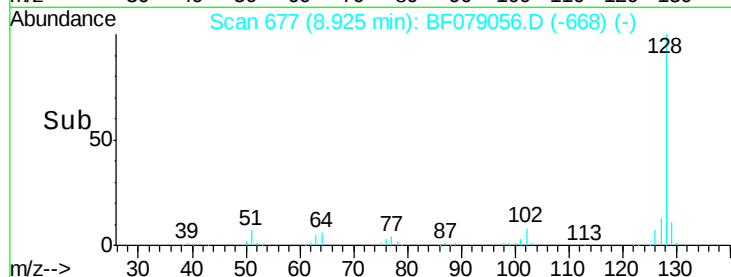
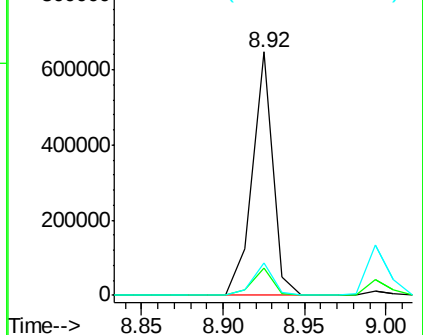
#31  
Naphthalene  
Concen: 42.97 ng  
RT: 8.92 min Scan# 677  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

Tgt Ion:128 Resp: 564204  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.3 13.9  
127 13.2 10.7 16.1

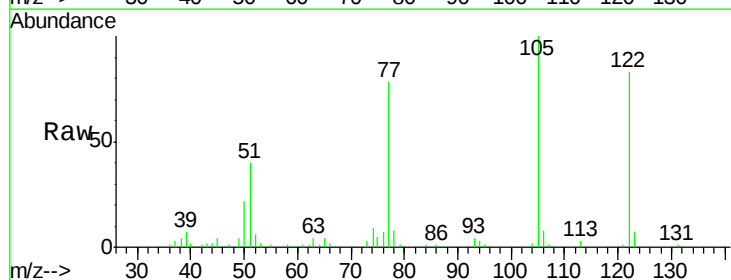


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

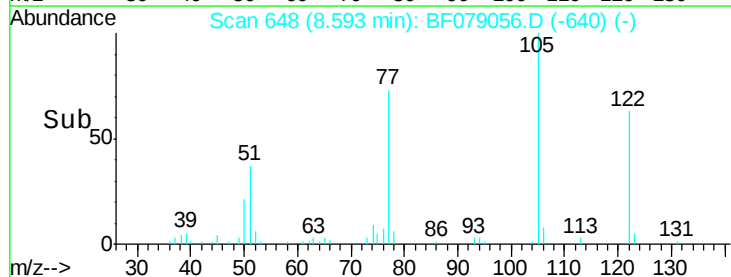
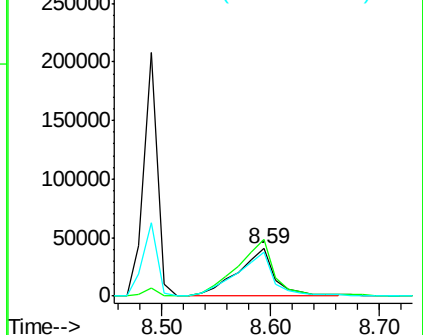


#32  
Benzoic acid  
Concen: 39.50 ng  
RT: 8.59 min Scan# 648  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion:122 Resp: 94210  
Ion Ratio Lower Upper  
122 100  
105 119.8 107.1 147.1  
77 93.5 73.9 113.9



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): BF0

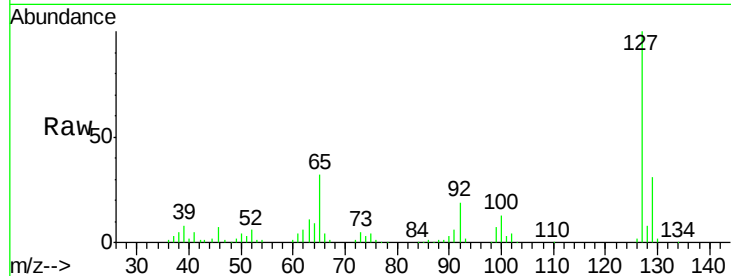




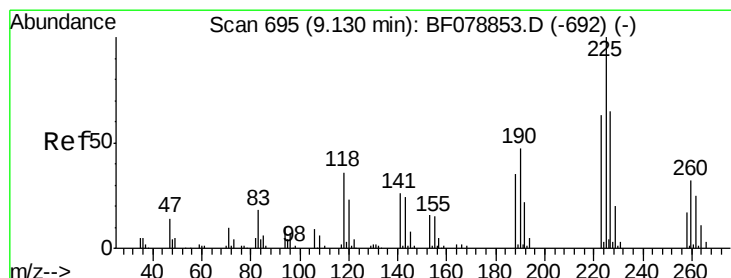
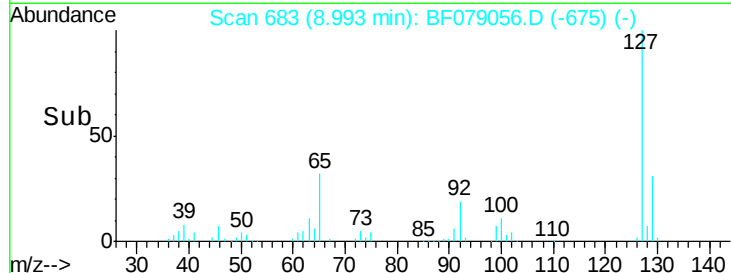
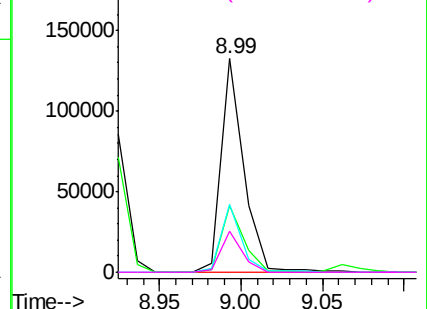
#33  
4-Chloroaniline  
Concen: 22.90 ng  
RT: 8.99 min Scan# 683  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 127191 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 31.4  | 25.8  | 38.8   |
| 65       | 32.0  | 25.8  | 38.6   |
| 92       | 19.2  | 15.5  | 23.3   |

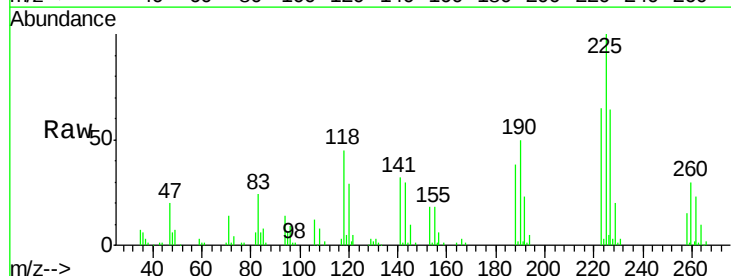


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0

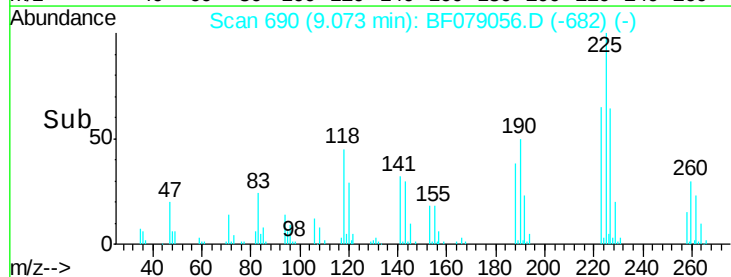
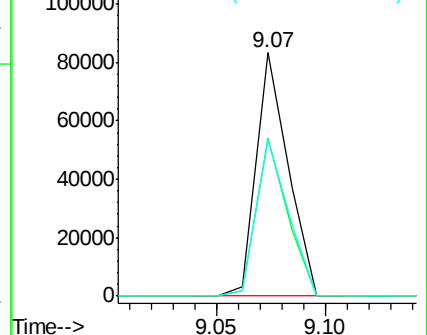


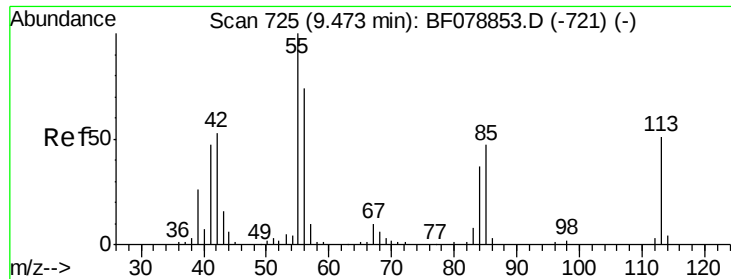
#34  
Hexachlorobutadiene  
Concen: 38.27 ng  
RT: 9.07 min Scan# 690  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 84731 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 65.0  | 48.2  | 72.4  |
| 227      | 64.3  | 51.4  | 77.0  |



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

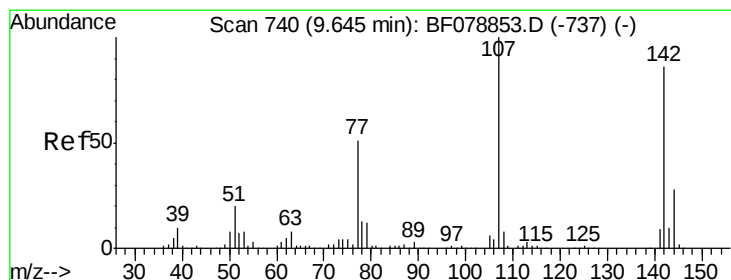
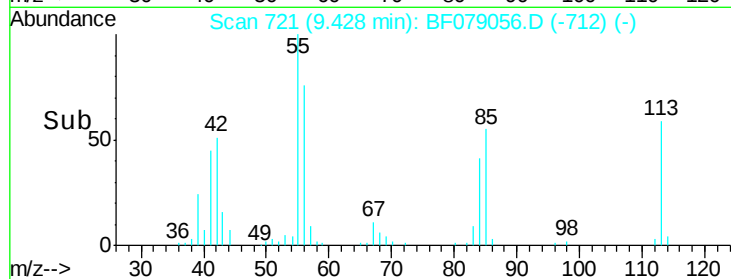
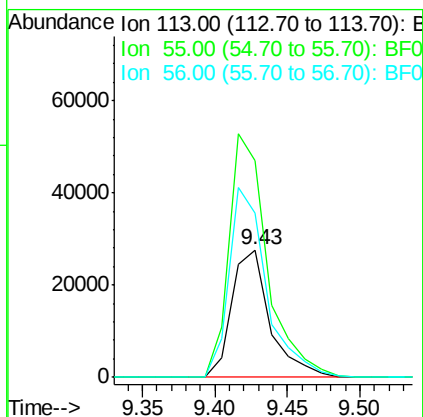
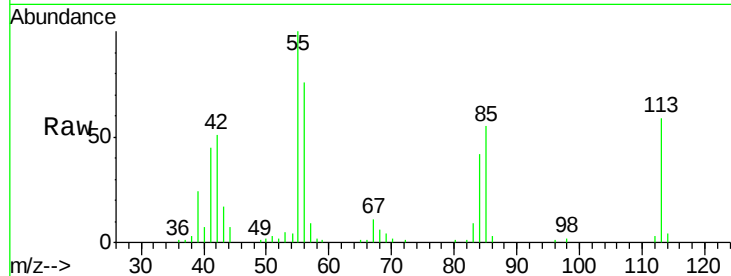




#35  
 Caprolactam  
 Concen: 44.53 ng  
 RT: 9.43 min Scan# 721  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

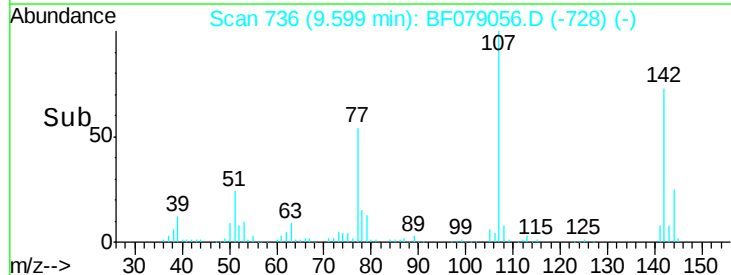
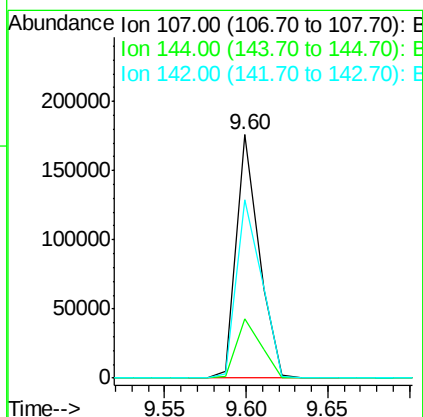
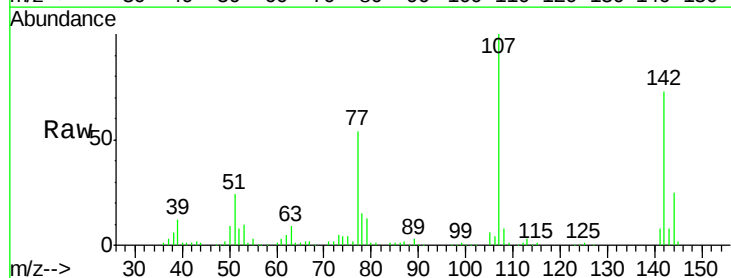
Instrument :  
 BNA\_F  
 ClientSampleID :  
 PB83273BS

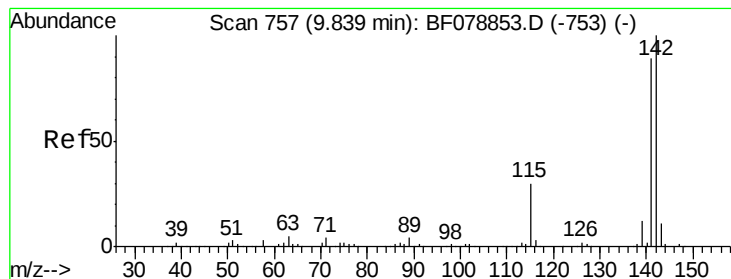
Tgt Ion:113 Resp: 50391  
 Ion Ratio Lower Upper  
 113 100  
 55 169.5 169.7 209.7#  
 56 128.8 122.5 162.5



#36  
 4-Chloro-3-methylphenol  
 Concen: 46.24 ng  
 RT: 9.60 min Scan# 736  
 Delta R.T. -0.01 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:107 Resp: 169993  
 Ion Ratio Lower Upper  
 107 100  
 144 24.6 19.8 29.6  
 142 73.4 60.6 91.0





#37

2-Methylnaphthalene

Concen: 42.44 ng

RT: 9.78 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

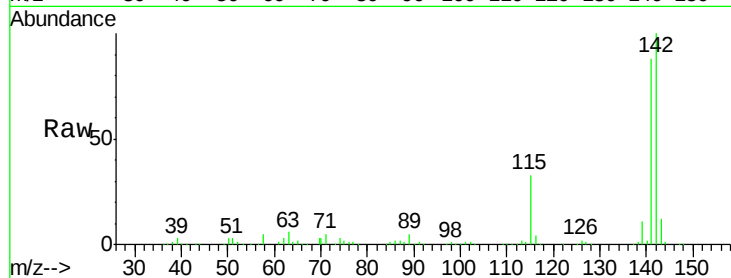
Tgt Ion:142 Resp: 386112

Ion Ratio Lower Upper

142 100

141 87.9 70.9 106.3

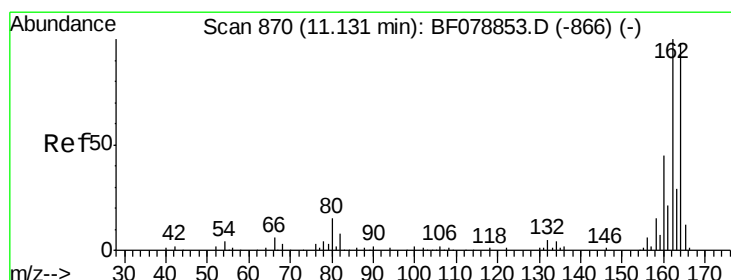
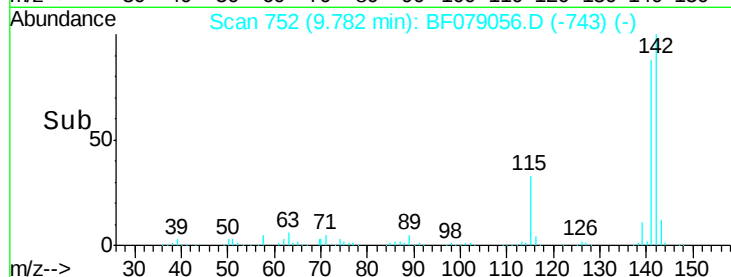
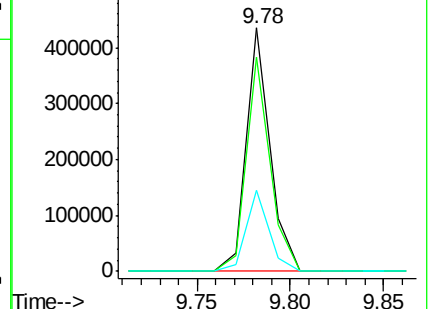
115 33.1 28.5 42.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 11.07 min Scan# 865

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

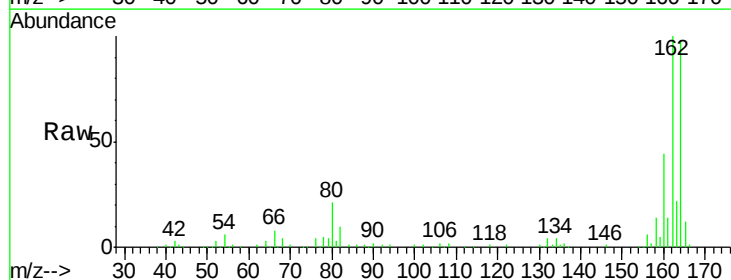
Tgt Ion:164 Resp: 133524

Ion Ratio Lower Upper

164 100

162 102.2 82.7 124.1

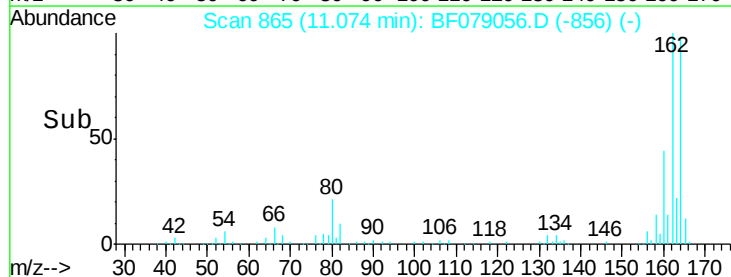
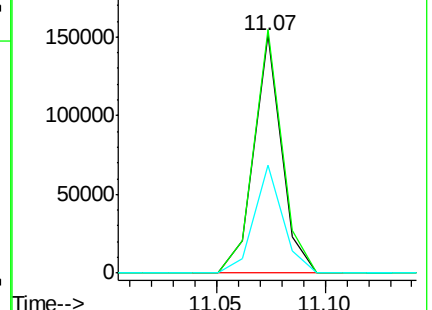
160 45.2 35.8 53.8

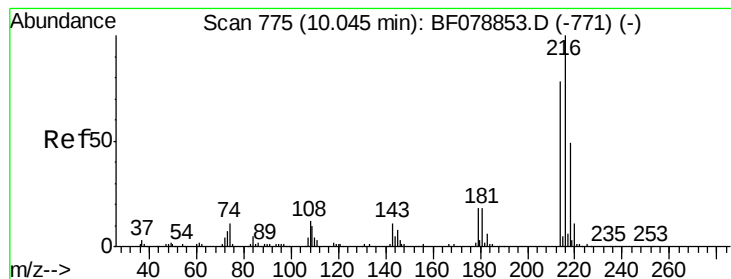


Abundance Ion 164.00 (163.70 to 164.70): E

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: 41.57 ng

RT: 9.99 min Scan# 770

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

Tgt Ion:216 Resp: 156318

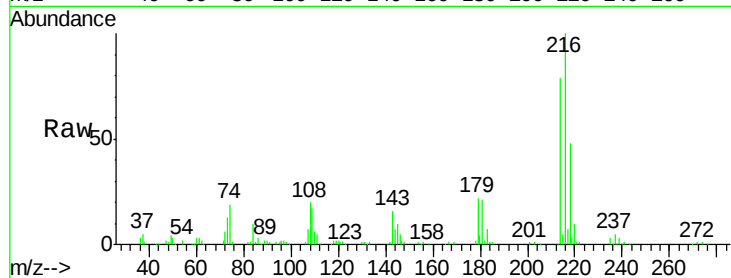
Ion Ratio Lower Upper

216 100

214 79.2 0.0 0.0#

179 21.8 0.0 0.0#

108 23.2 0.0 0.0#

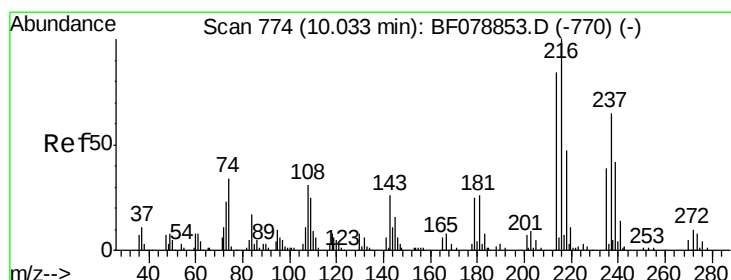
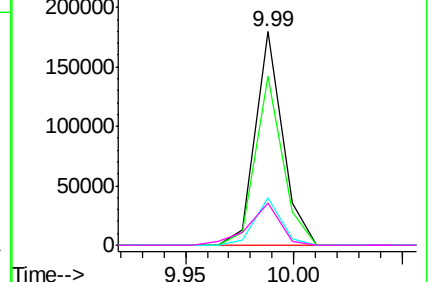
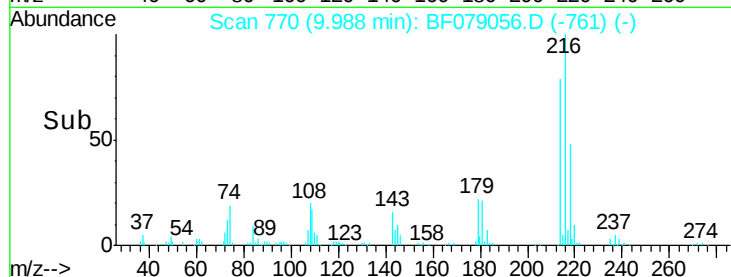


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 81.04 ng

RT: 9.98 min Scan# 769

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

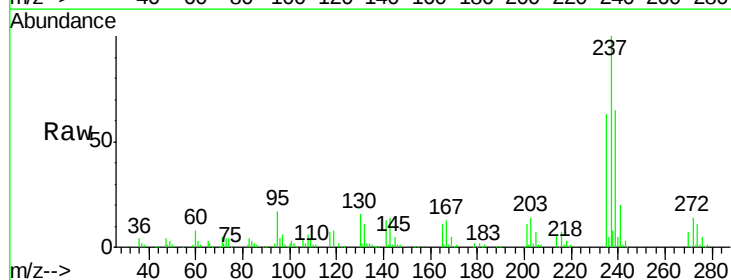
Tgt Ion:237 Resp: 153242

Ion Ratio Lower Upper

237 100

235 63.1 44.7 84.7

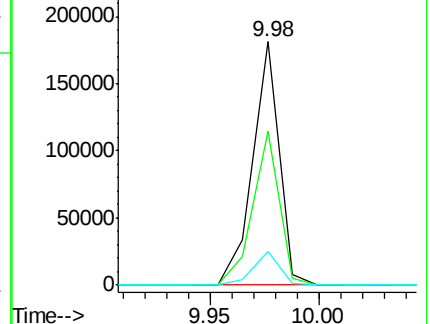
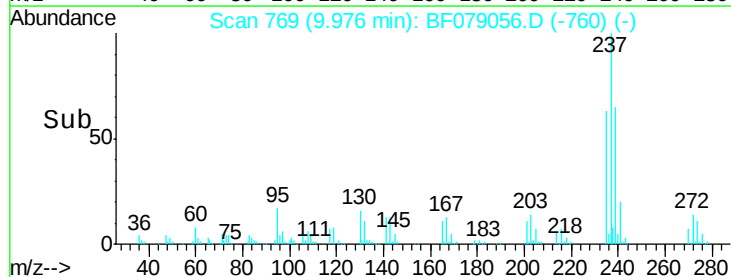
272 14.0 0.0 32.6



Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

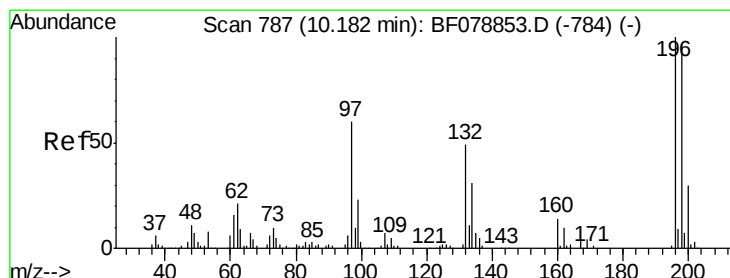
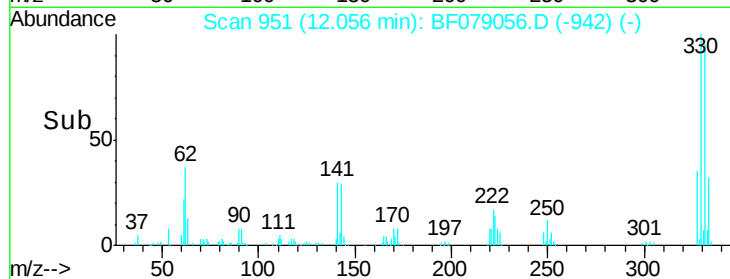
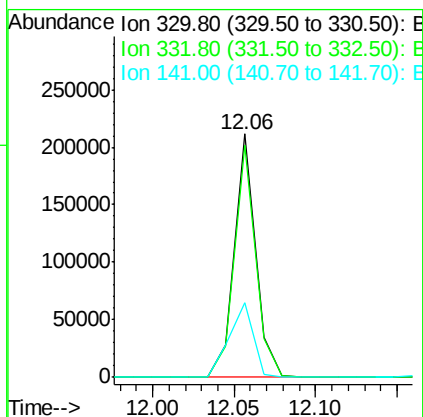
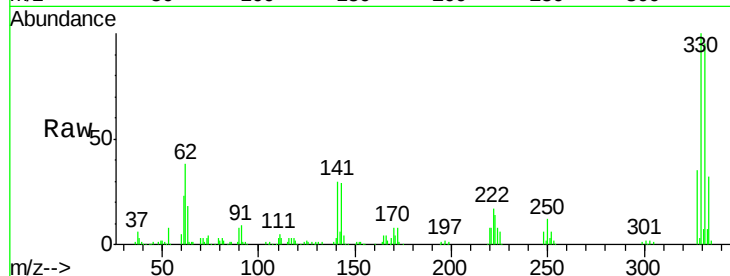




#41  
 2,4,6-Tribromophenol  
 Concen: 131.68 ng  
 RT: 12.06 min Scan# 951  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

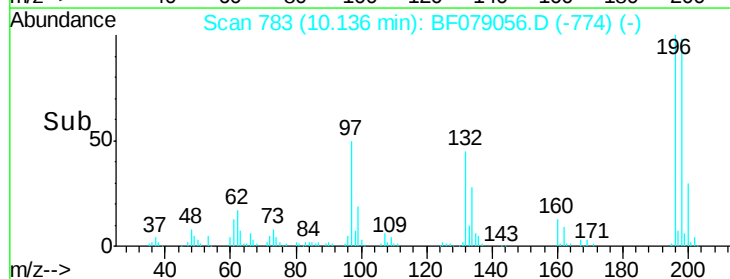
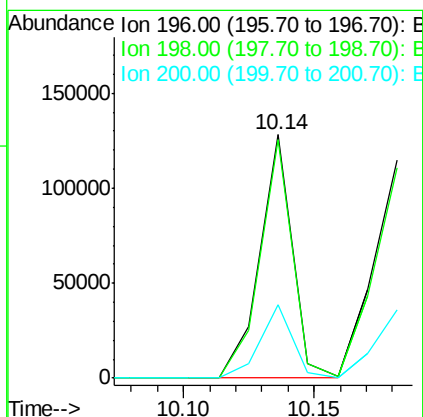
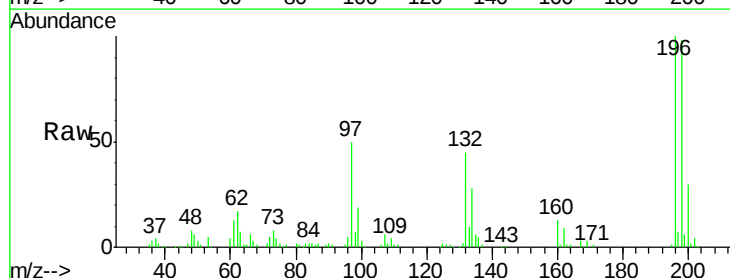
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

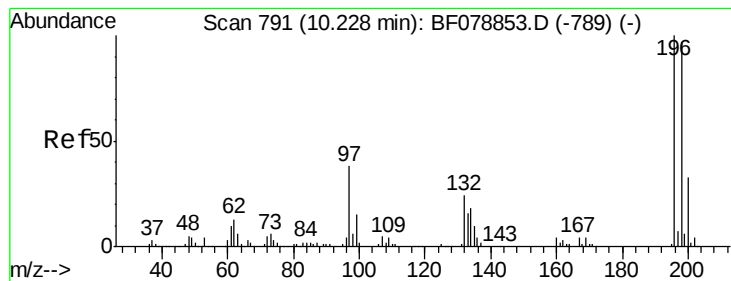
Tgt Ion:330 Resp: 190215  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 0.0 0.0#  
 141 34.8 0.0 0.0#



#42  
 2,4,6-Trichlorophenol  
 Concen: 43.38 ng  
 RT: 10.14 min Scan# 783  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:196 Resp: 112156  
 Ion Ratio Lower Upper  
 196 100  
 198 97.7 80.5 120.7  
 200 29.9 24.9 37.3





#43

2,4,5-Trichlorophenol

Concen: 44.58 ng

RT: 10.18 min Scan# 787

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

Tgt Ion:196 Resp: 116513

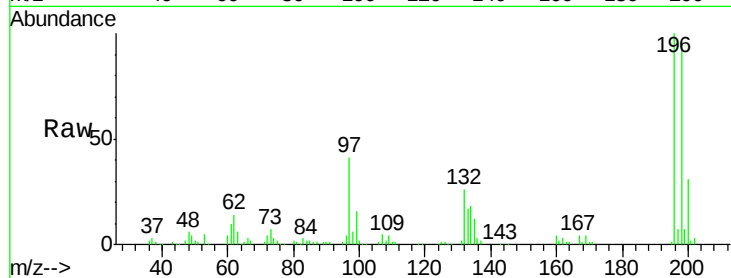
Ion Ratio Lower Upper

196 100

198 96.5 79.8 119.6

97 41.3 46.0 69.0#

132 26.2 26.6 40.0#

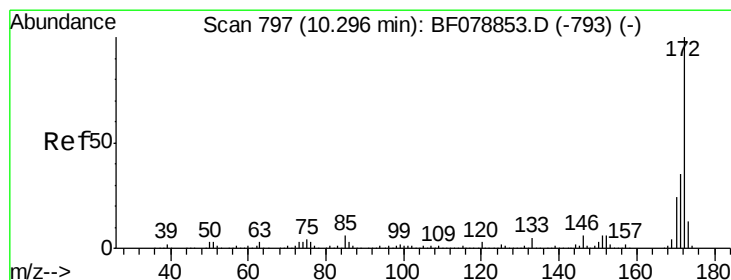
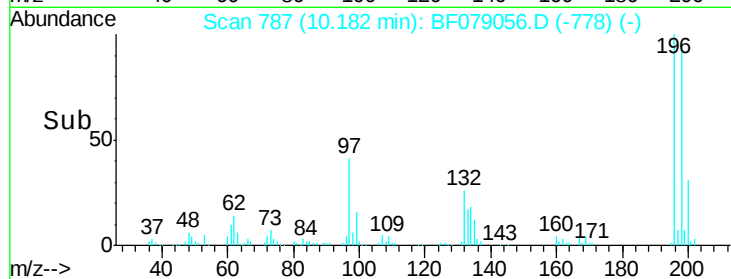
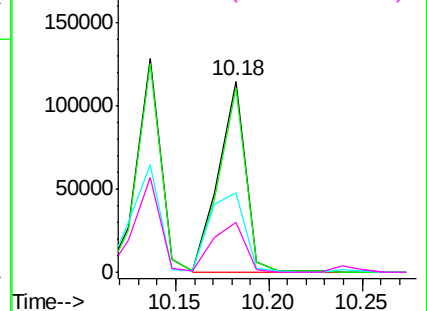


Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BF0

Ion 132.00 (131.70 to 132.70): E



#44

2-Fluorobiphenyl

Concen: 77.03 ng

RT: 10.24 min Scan# 792

Delta R.T. -0.01 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

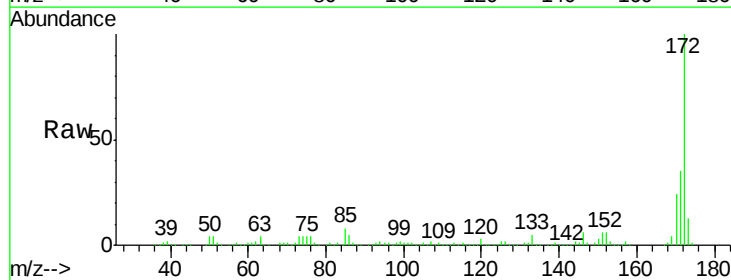
Tgt Ion:172 Resp: 738279

Ion Ratio Lower Upper

172 100

171 35.5 27.9 41.9

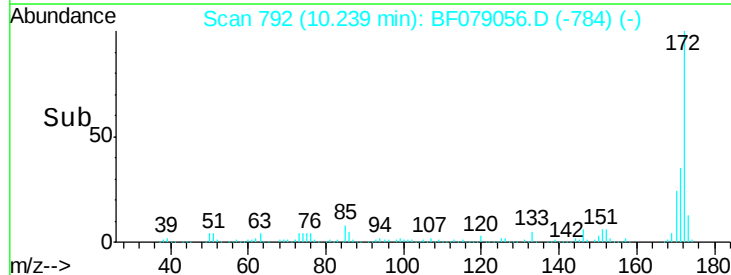
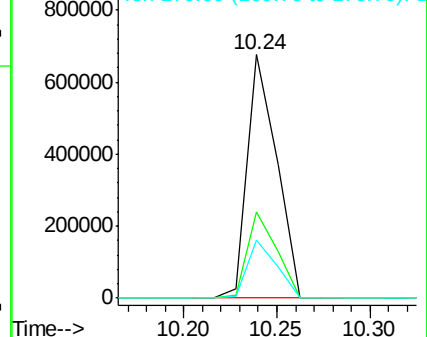
170 23.7 19.4 29.0



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

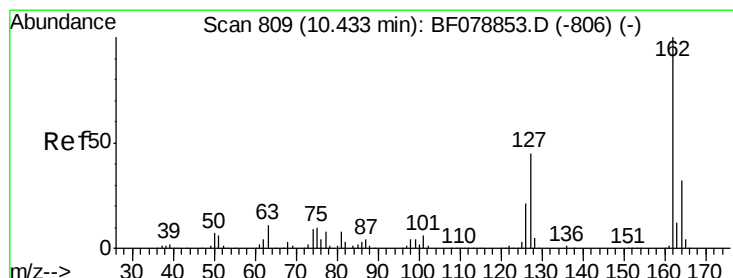
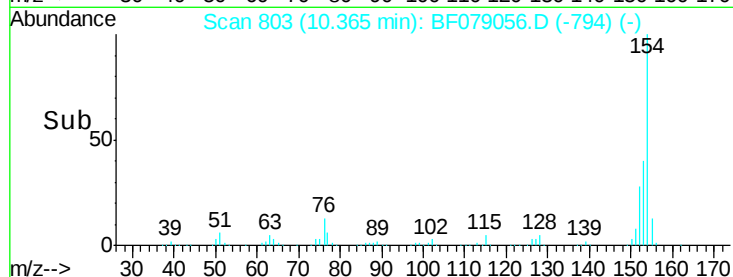
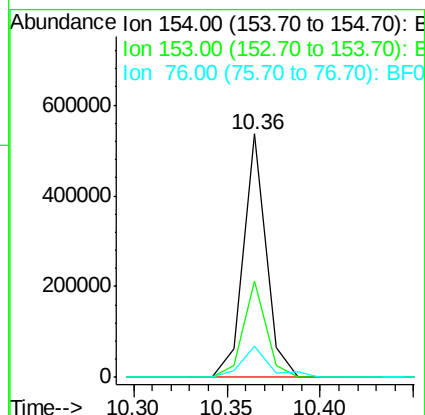
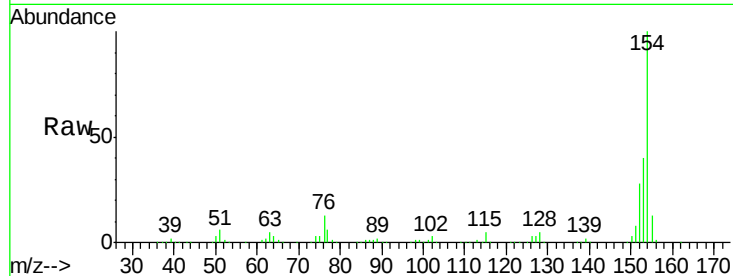




#45  
 1,1'-Biphenyl  
 Concen: 43.10 ng  
 RT: 10.36 min Scan# 803  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

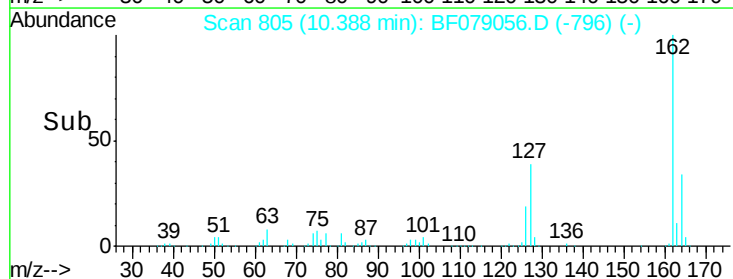
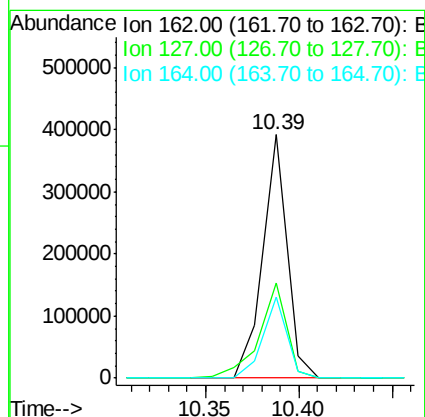
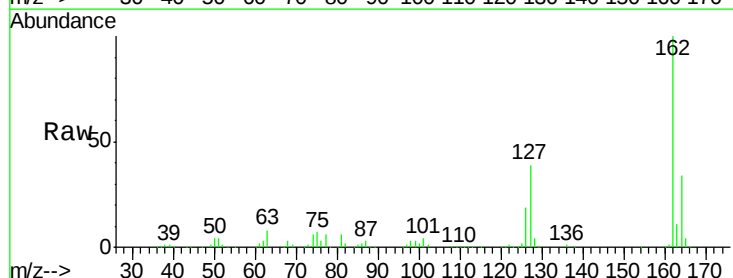
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

Tgt Ion:154 Resp: 457509  
 Ion Ratio Lower Upper  
 154 100  
 153 39.7 19.9 59.9  
 76 13.0 0.0 35.0



#46  
 2-Chloronaphthalene  
 Concen: 42.48 ng  
 RT: 10.39 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:162 Resp: 351736  
 Ion Ratio Lower Upper  
 162 100  
 127 39.2 33.9 50.9  
 164 33.5 26.3 39.5

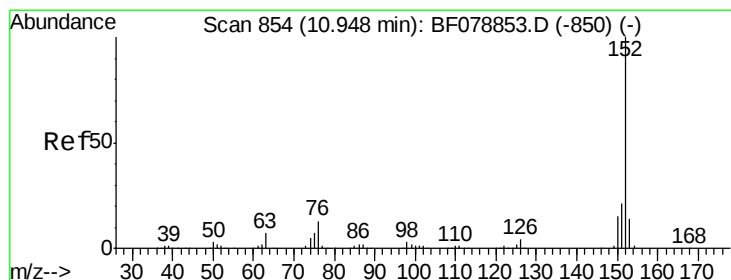
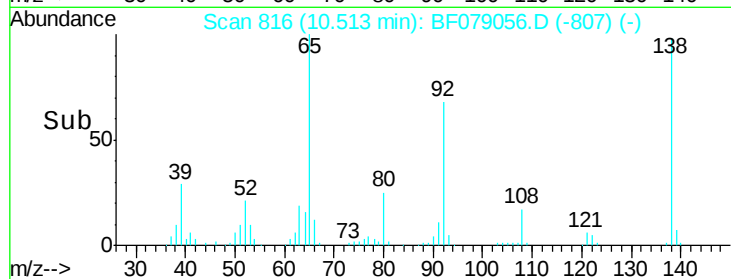
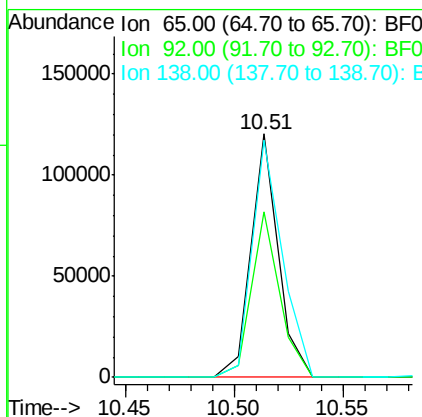
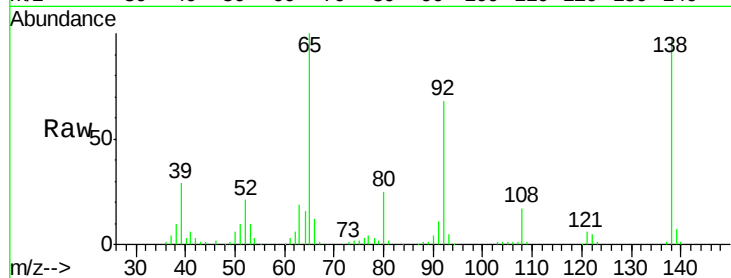




#47  
 2-Nitroaniline  
 Concen: 43.67 ng  
 RT: 10.51 min Scan# 816  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

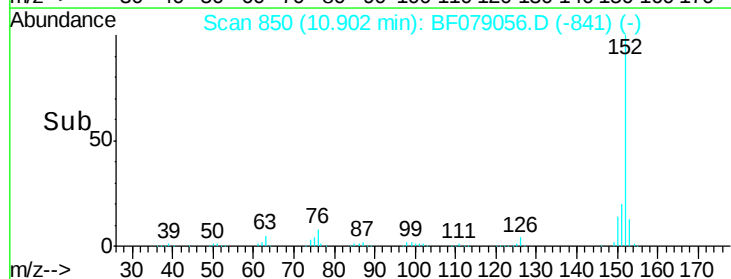
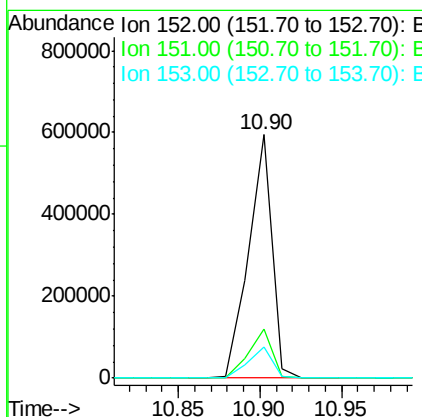
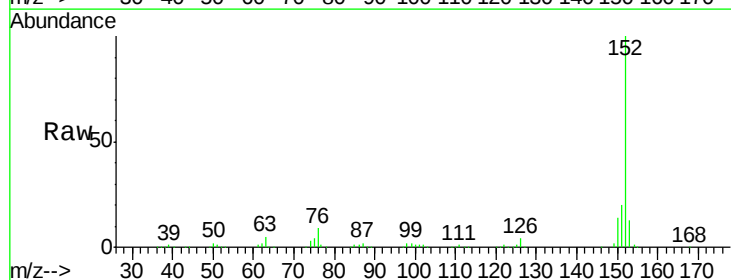
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

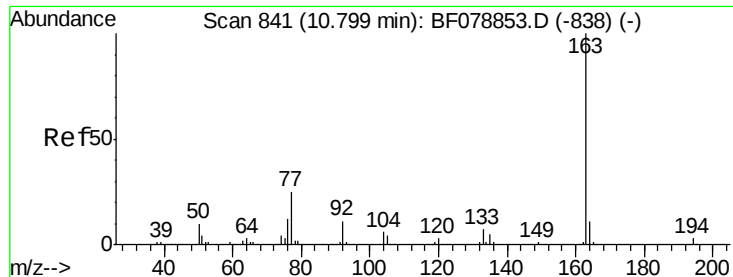
Tgt Ion: 65 Resp: 104769  
 Ion Ratio Lower Upper  
 65 100  
 92 68.2 54.0 81.0  
 138 97.5 75.0 112.6



#48  
 Acenaphthylene  
 Concen: 43.52 ng  
 RT: 10.90 min Scan# 850  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion: 152 Resp: 591656  
 Ion Ratio Lower Upper  
 152 100  
 151 19.9 16.2 24.4  
 153 13.0 10.9 16.3

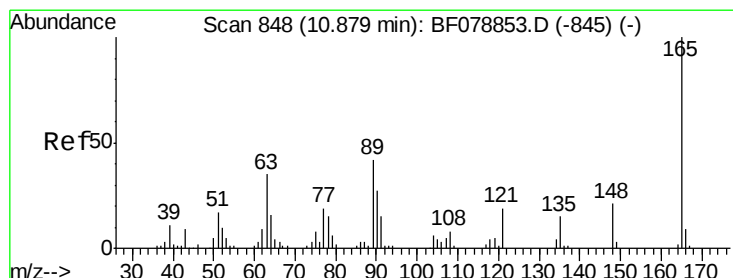
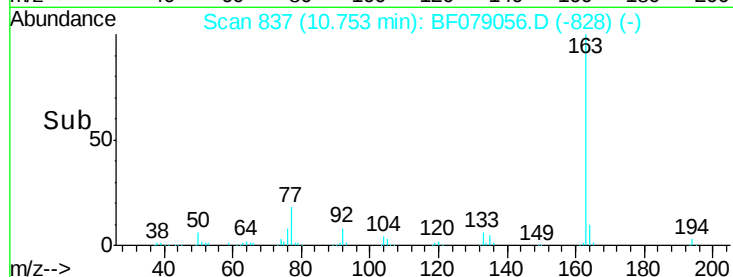
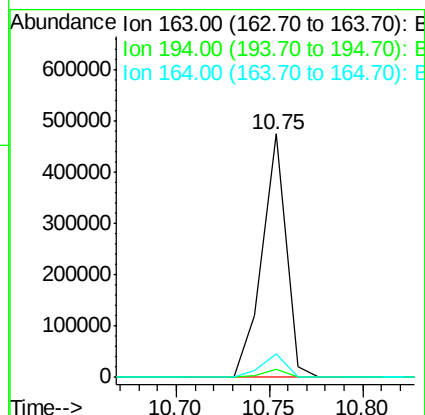
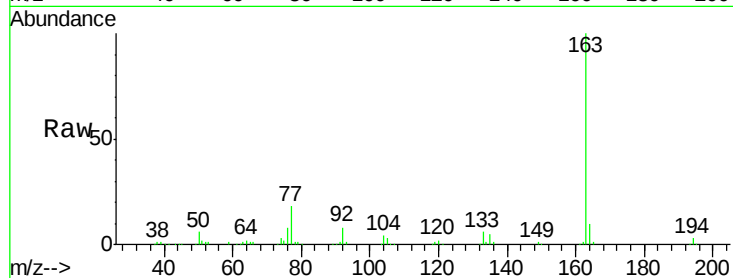




#49  
Dimethylphthalate  
Concen: 43.17 ng  
RT: 10.75 min Scan# 837  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

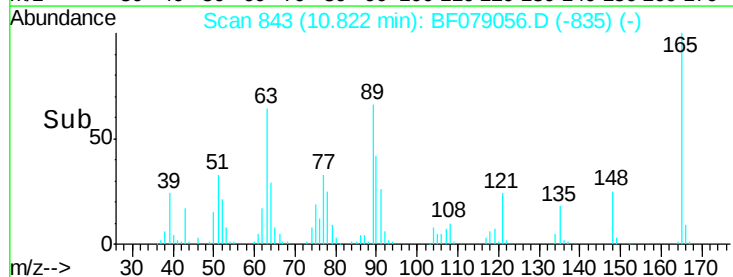
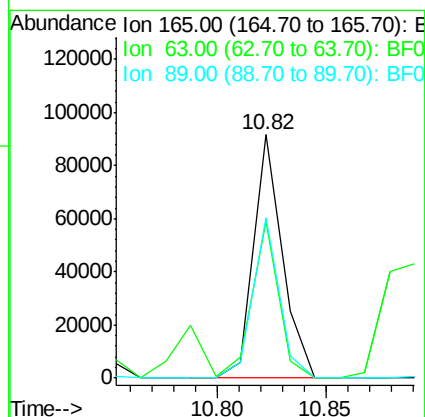
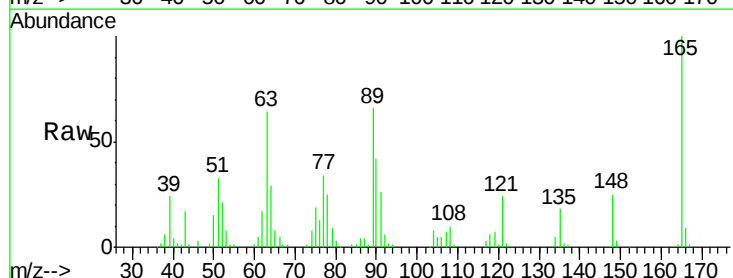
Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

Tgt Ion:163 Resp: 423059  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.6 4.0  
164 9.7 8.1 12.1



#50  
2,6-Dinitrotoluene  
Concen: 43.57 ng  
RT: 10.82 min Scan# 843  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion:165 Resp: 84268  
Ion Ratio Lower Upper  
165 100  
63 64.1 54.4 81.6  
89 66.1 55.7 83.5





#51

Acenaphthene

Concen: 41.02 ng

RT: 11.12 min Scan# 869

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

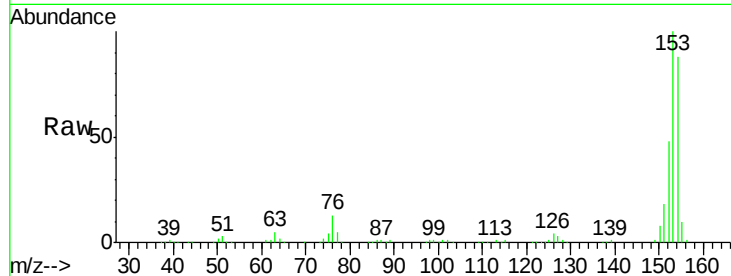
Tgt Ion:154 Resp: 332581

Ion Ratio Lower Upper

154 100

153 113.8 91.5 137.3

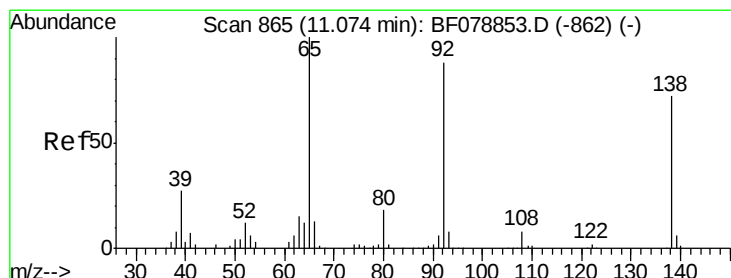
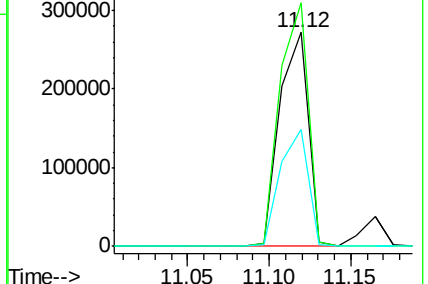
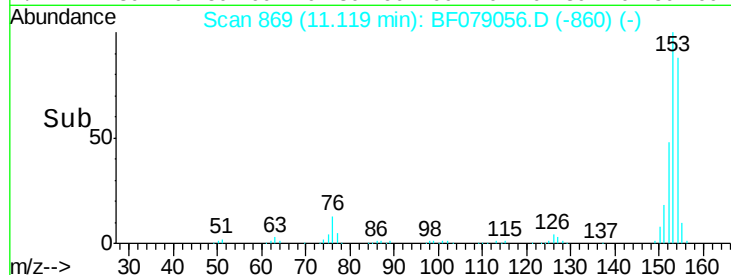
152 54.4 44.2 66.4



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: 30.94 ng

RT: 11.03 min Scan# 861

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

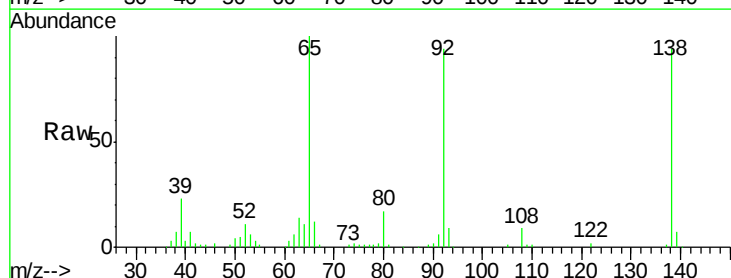
Tgt Ion:138 Resp: 74748

Ion Ratio Lower Upper

138 100

108 10.1 10.6 16.0#

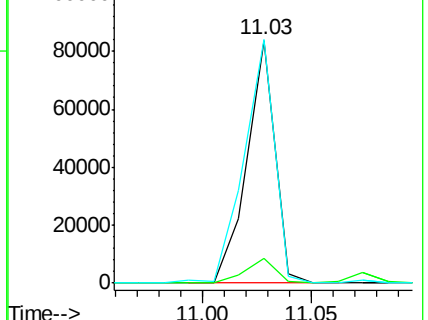
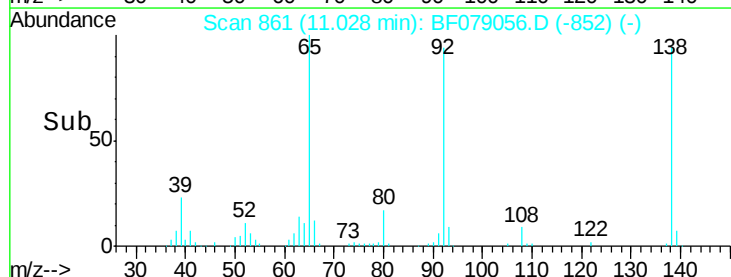
92 100.3 81.8 122.6

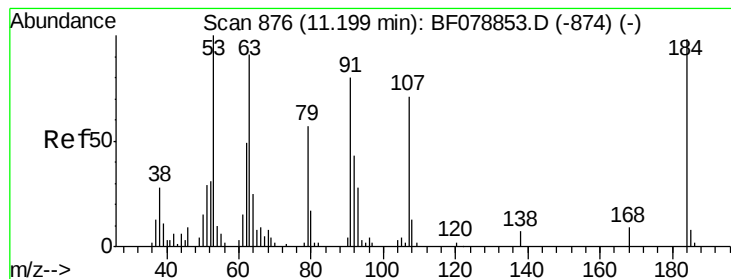


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





#53

2,4-Dinitrophenol

Concen: 74.57 ng

RT: 11.16 min Scan# 873

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

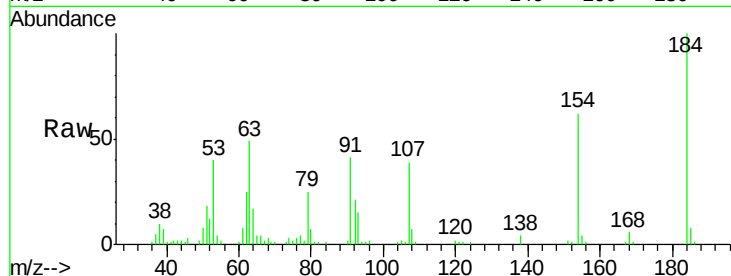
Tgt Ion:184 Resp: 58350

Ion Ratio Lower Upper

184 100

63 49.3 63.3 94.9#

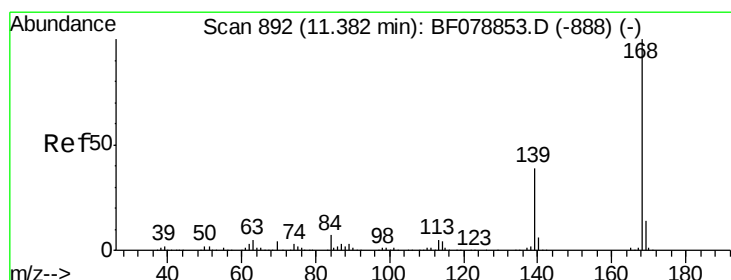
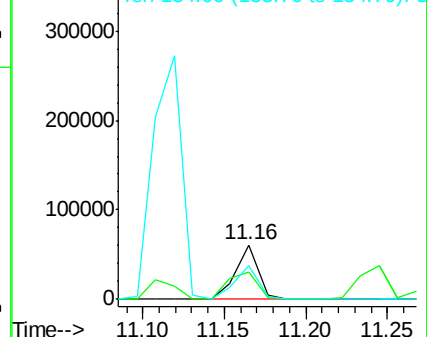
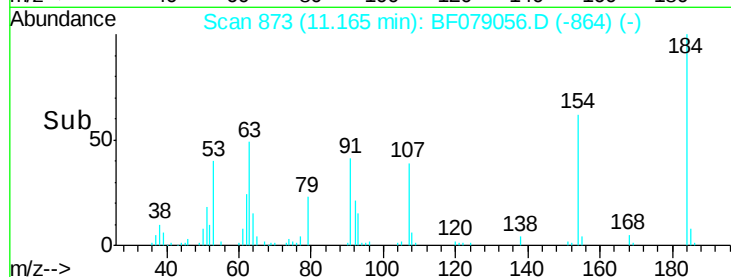
154 62.3 53.8 80.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 42.73 ng

RT: 11.32 min Scan# 887

Delta R.T. -0.01 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

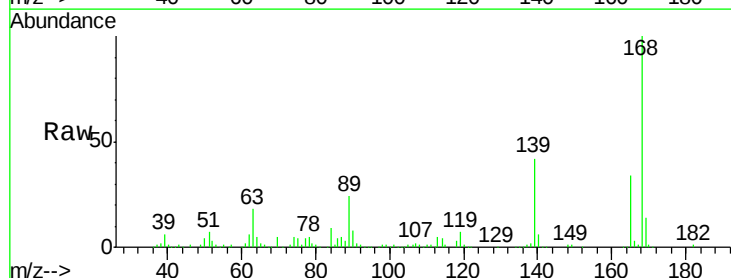
Tgt Ion:168 Resp: 500419

Ion Ratio Lower Upper

168 100

139 41.5 31.0 46.4

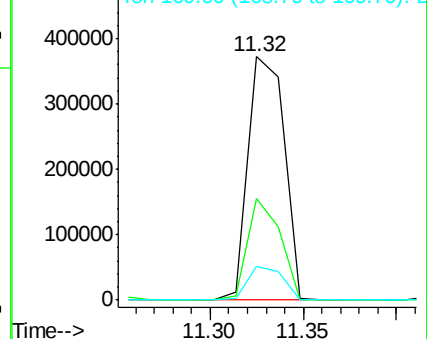
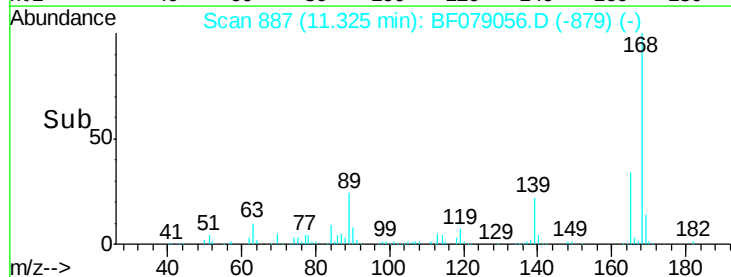
169 13.8 10.6 16.0

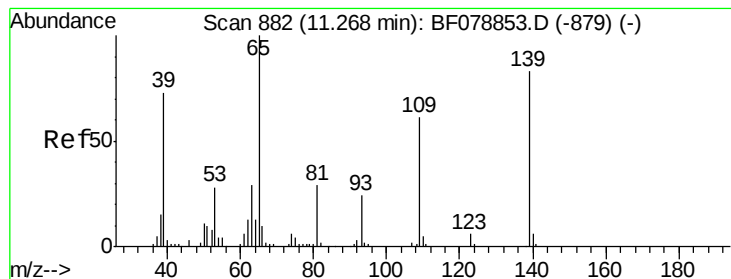


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 93.64 ng

RT: 11.24 min Scan# 880

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

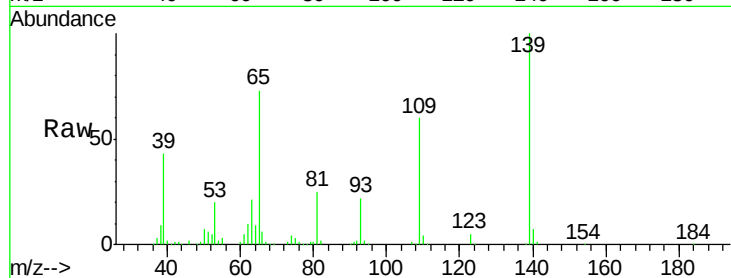
Tgt Ion:139 Resp: 179043

Ion Ratio Lower Upper

139 100

109 60.1 47.6 87.6

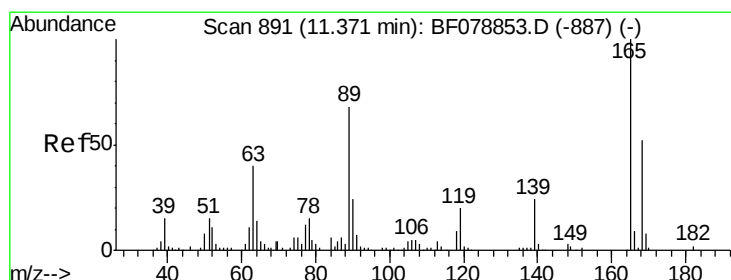
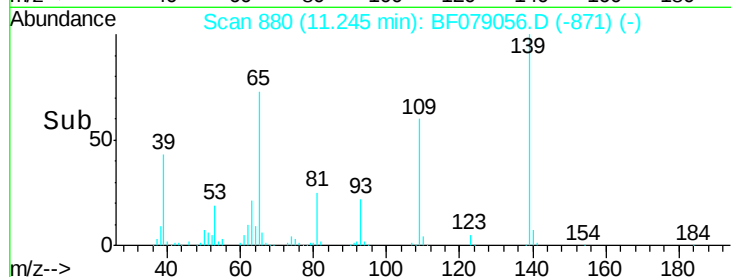
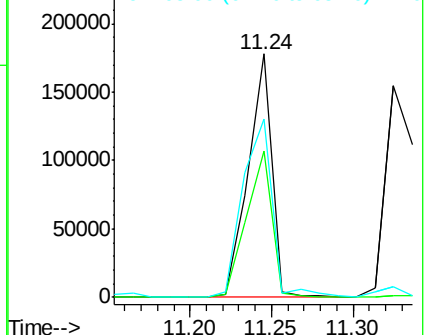
65 73.3 54.3 94.3



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 46.78 ng

RT: 11.32 min Scan# 887

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Tgt Ion:165 Resp: 119595

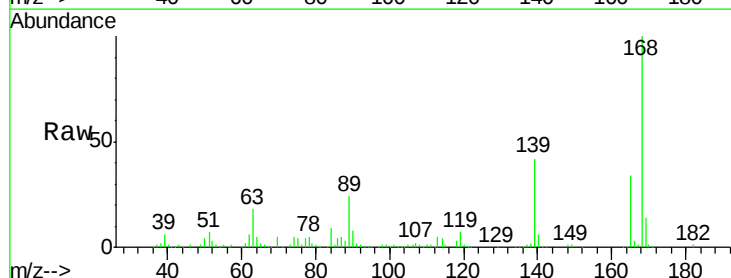
Ion Ratio Lower Upper

165 100

63 50.9 51.2 76.8#

89 69.0 82.7 124.1#

182 1.9 1.4 2.2

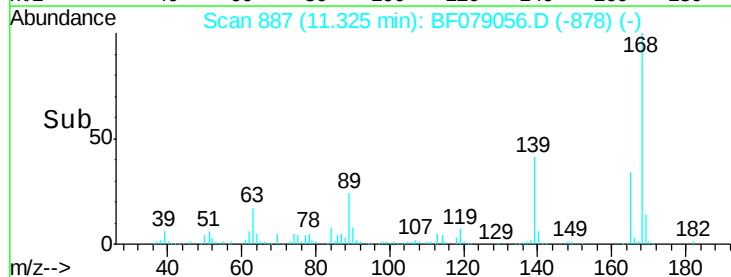
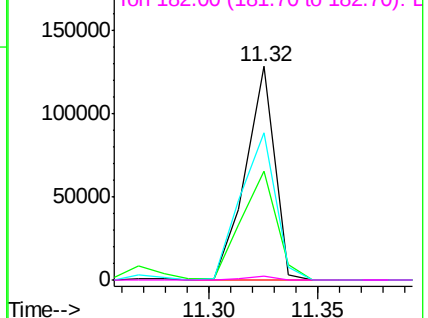


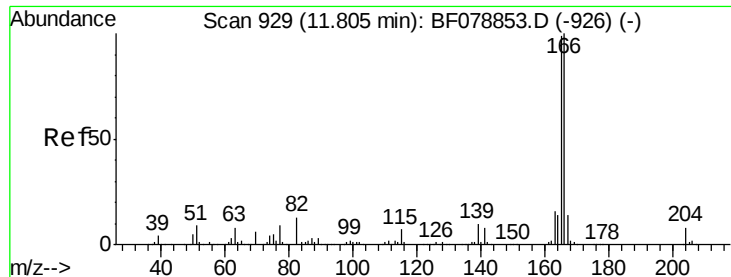
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

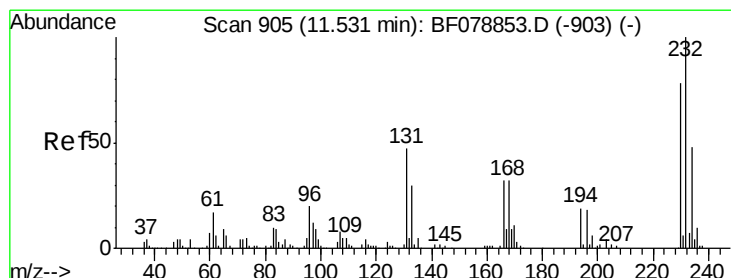
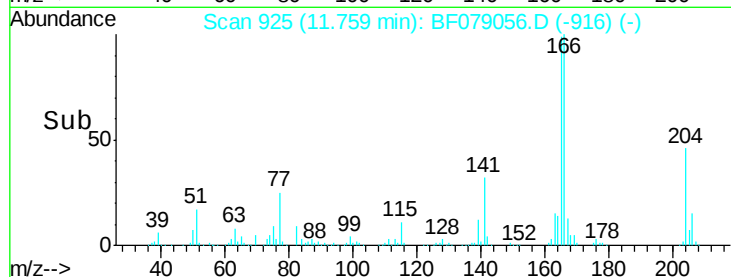
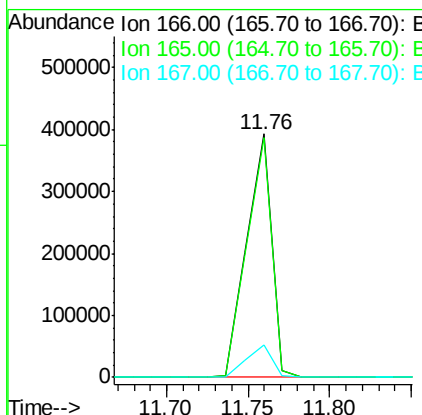
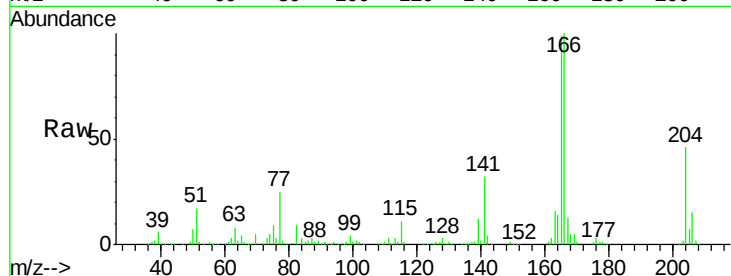




#57  
 Fluorene  
 Concen: 43.42 ng  
 RT: 11.76 min Scan# 925  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

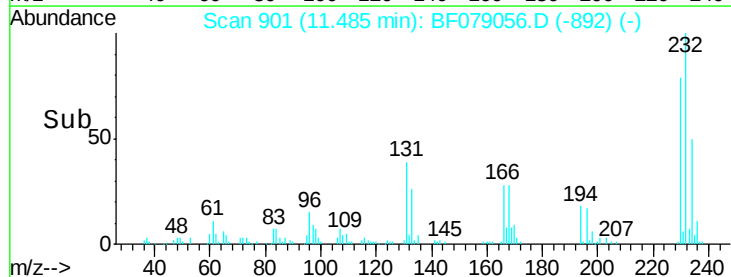
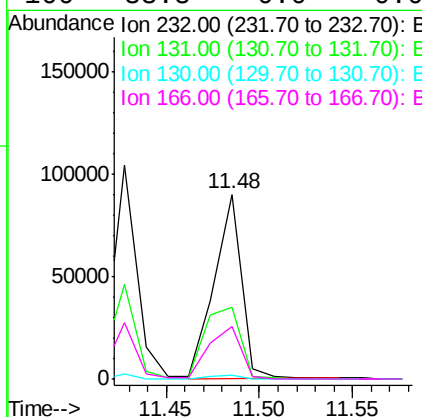
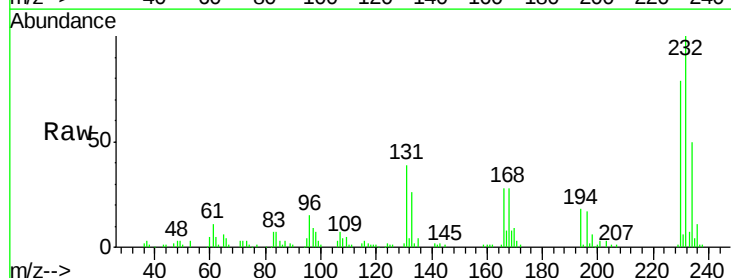
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

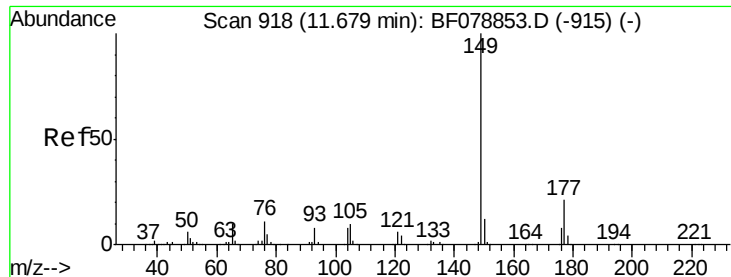
Tgt Ion:166 Resp: 417319  
 Ion Ratio Lower Upper  
 166 100  
 165 98.7 78.5 117.7  
 167 13.2 11.0 16.6



#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 43.07 ng  
 RT: 11.48 min Scan# 901  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:232 Resp: 92002  
 Ion Ratio Lower Upper  
 232 100  
 131 51.3 0.0 0.0#  
 130 2.5 0.0 0.0#  
 166 33.8 0.0 0.0#

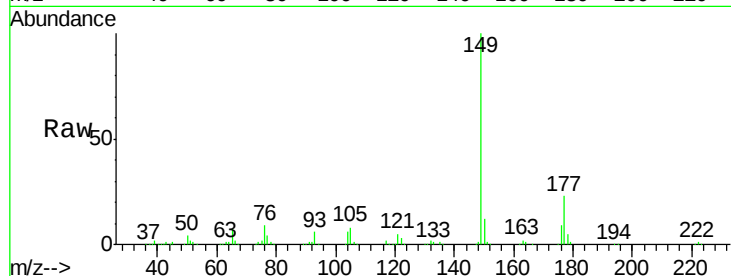




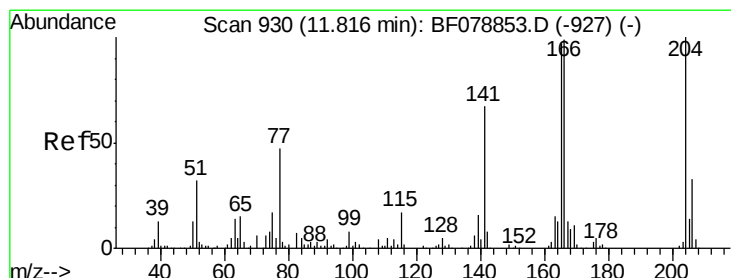
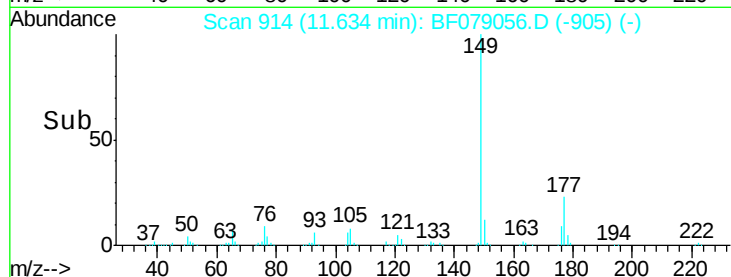
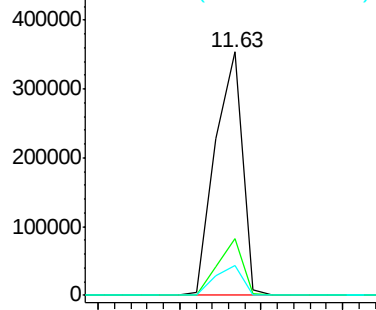
#59  
Diethylphthalate  
Concen: 41.97 ng  
RT: 11.63 min Scan# 914  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

Tgt Ion:149 Resp: 407471  
Ion Ratio Lower Upper  
149 100  
177 23.1 17.5 26.3  
150 12.2 9.6 14.4

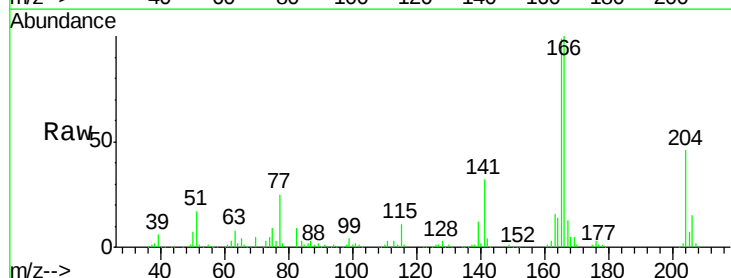


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

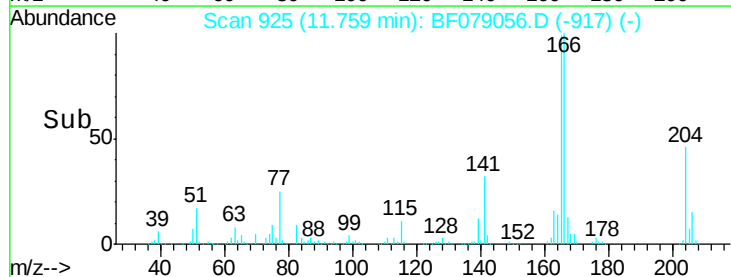
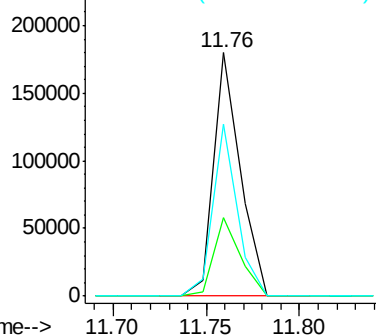


#60  
4-Chlorophenyl-phenylether  
Concen: 41.82 ng  
RT: 11.76 min Scan# 925  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion:204 Resp: 178300  
Ion Ratio Lower Upper  
204 100  
206 32.2 26.9 40.3  
141 70.7 48.3 72.5



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

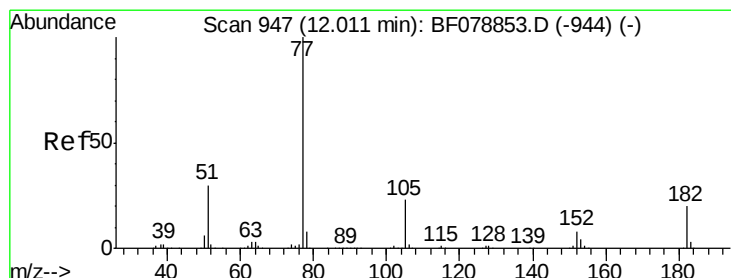
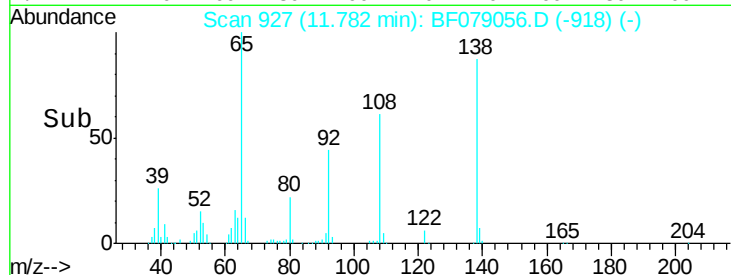
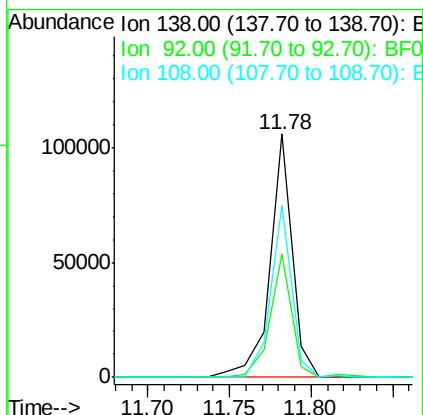
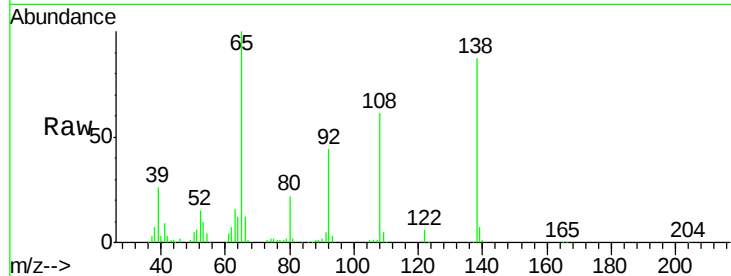




#61  
4-Nitroaniline  
Concen: 41.63 ng  
RT: 11.78 min Scan# 927  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

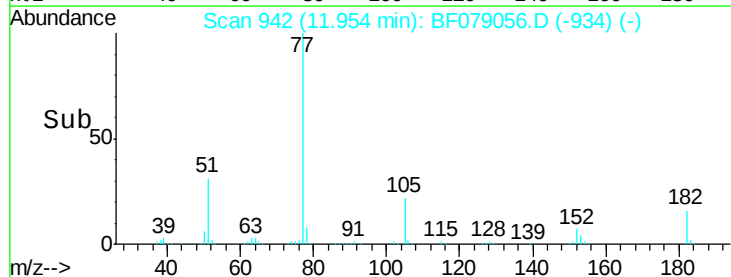
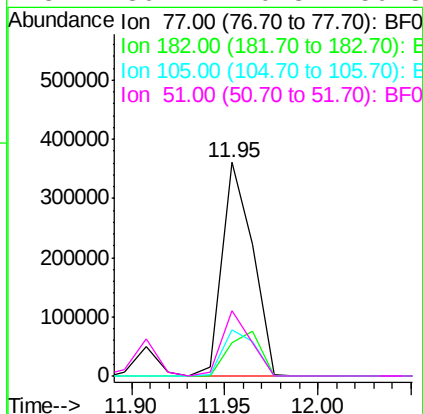
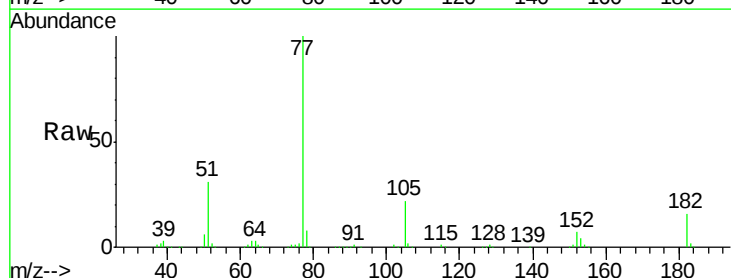
Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

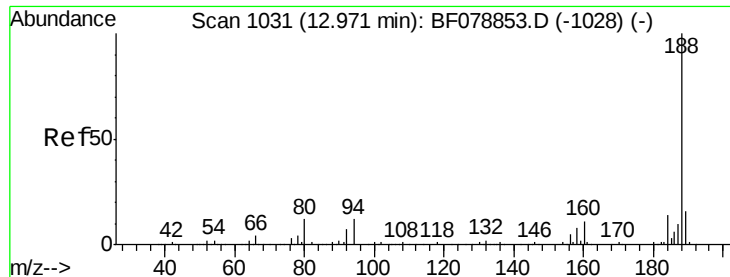
Tgt Ion:138 Resp: 100615  
Ion Ratio Lower Upper  
138 100  
92 50.9 28.0 68.0  
108 70.6 56.3 96.3



#62  
Azobenzene  
Concen: 43.15 ng  
RT: 11.95 min Scan# 942  
Delta R.T. -0.01 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion: 77 Resp: 412785  
Ion Ratio Lower Upper  
77 100  
182 15.7 3.8 43.8  
105 21.5 3.9 43.9  
51 30.7 10.8 50.8

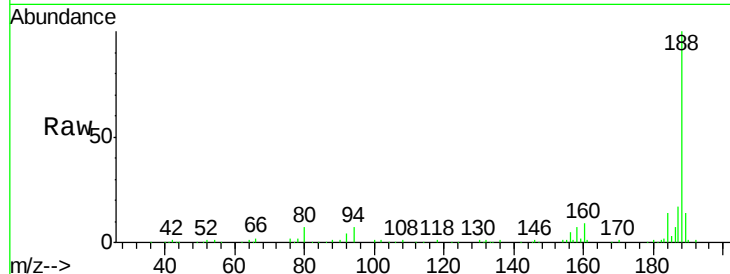




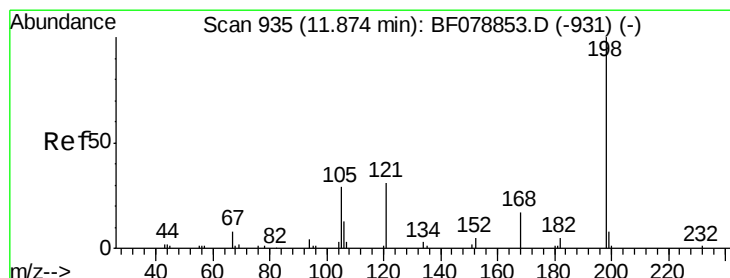
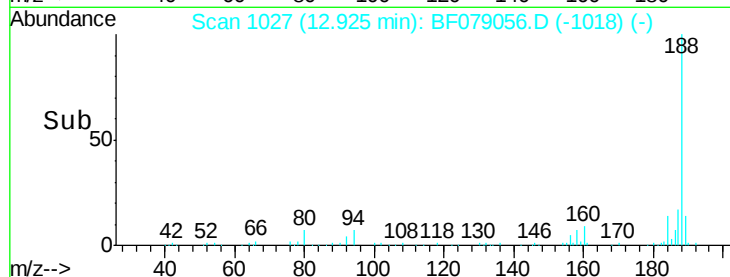
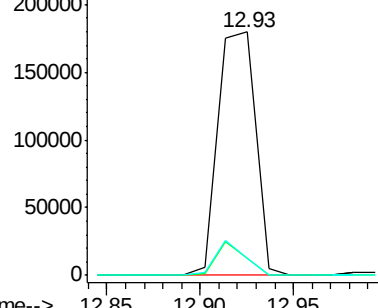
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.93 min Scan# 1027  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.2   | 8.2   | 12.2# |
| 80      | 6.9   | 8.9   | 13.3# |

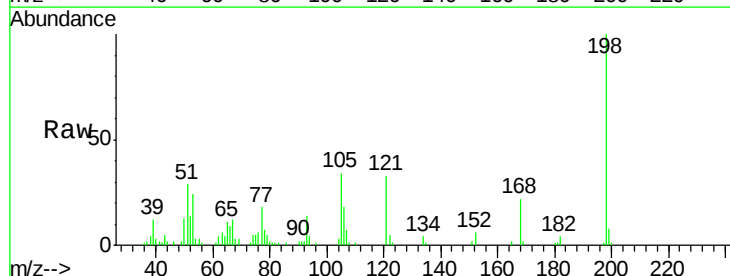


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

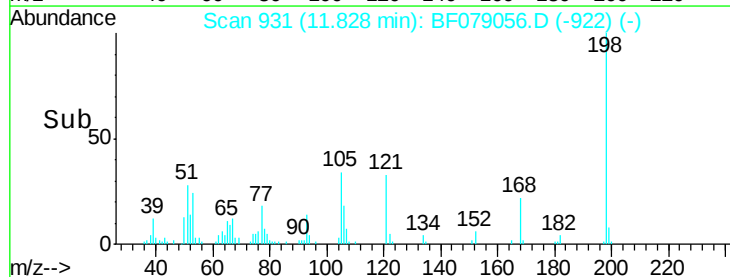
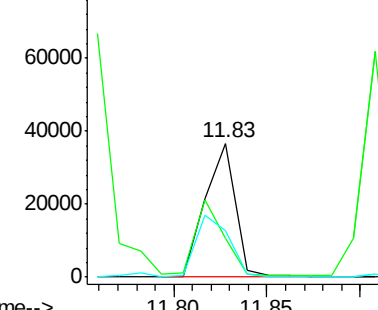


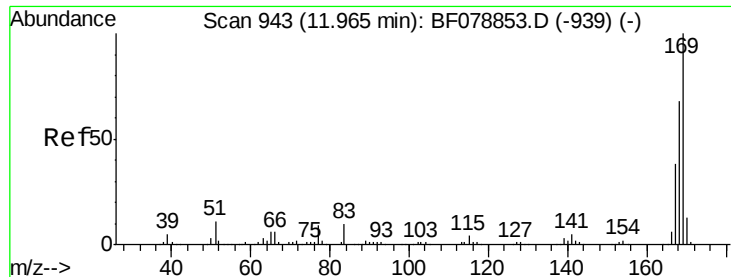
#64  
4,6-Dinitro-2-methylphenol  
Concen: 42.10 ng  
RT: 11.83 min Scan# 931  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 29.0  | 47.3  | 87.3# |
| 105     | 34.4  | 38.8  | 78.8# |



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E

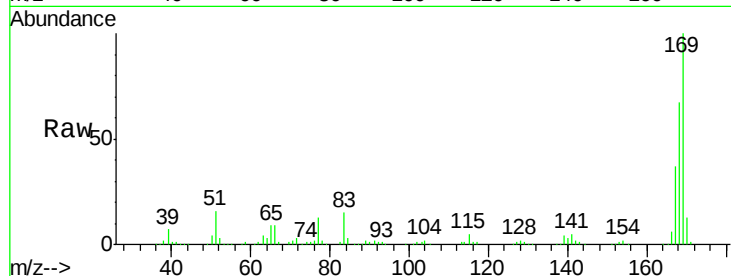




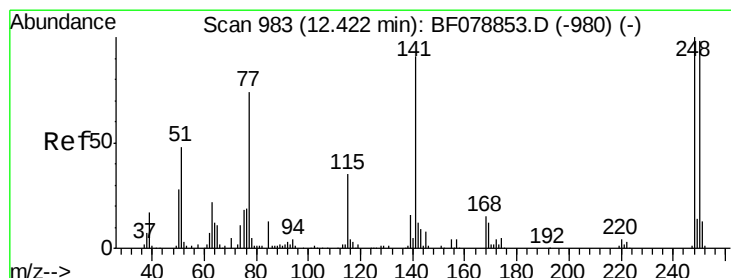
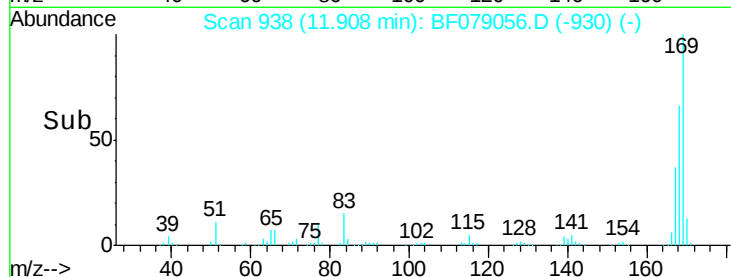
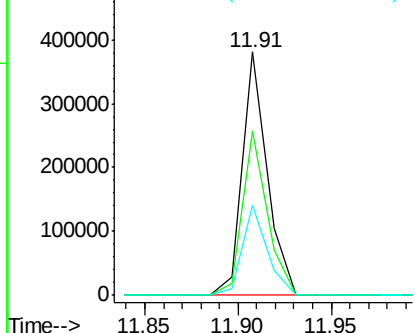
#65  
 n-Nitrosodiphenylamine  
 Concen: 42.12 ng  
 RT: 11.91 min Scan# 938  
 Delta R.T. -0.01 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

Tgt Ion:169 Resp: 352936  
 Ion Ratio Lower Upper  
 169 100  
 168 67.3 54.6 82.0  
 167 37.0 30.6 45.8

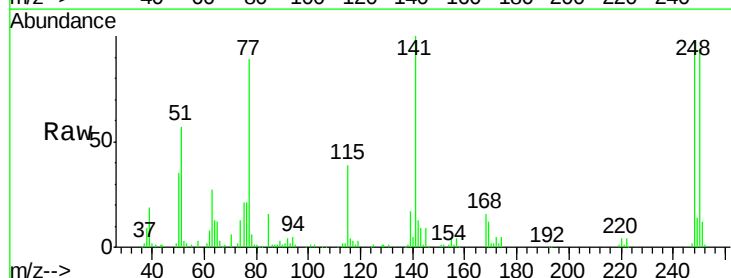


Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E

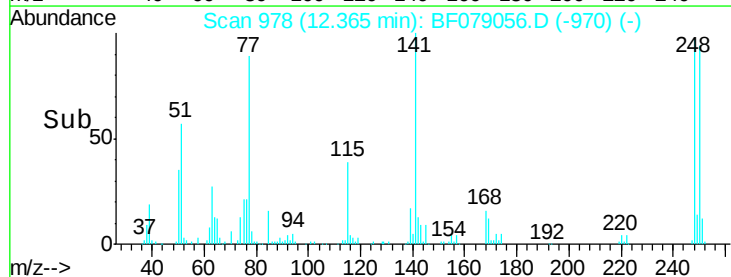
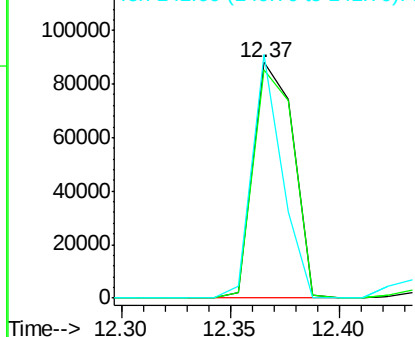


#66  
 4-Bromophenyl-phenylether  
 Concen: 43.32 ng  
 RT: 12.37 min Scan# 978  
 Delta R.T. -0.01 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:248 Resp: 113607  
 Ion Ratio Lower Upper  
 248 100  
 250 96.7 77.1 115.7  
 141 103.4 58.8 88.2#



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

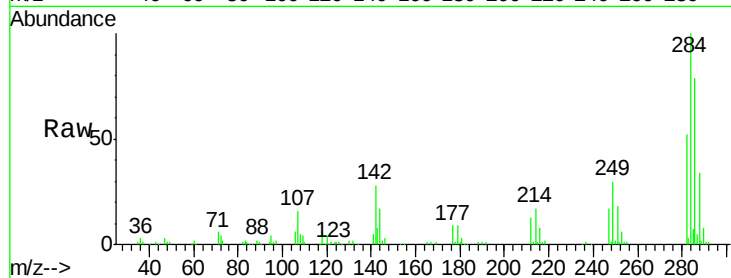




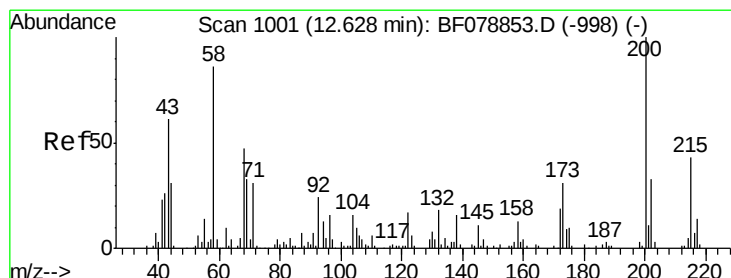
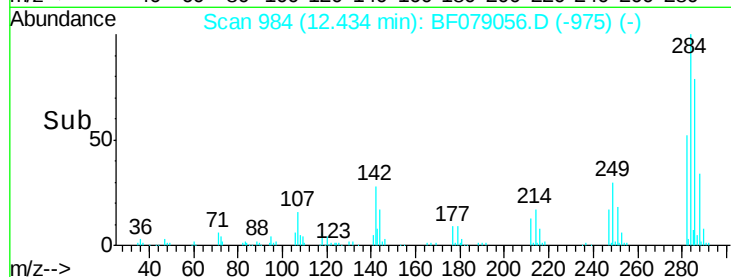
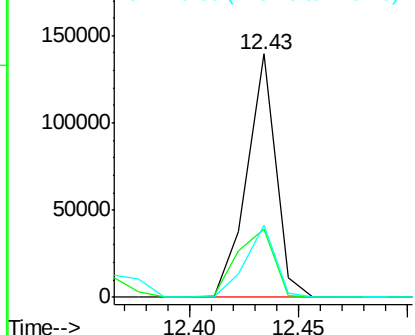
#67  
Hexachlorobenzene  
Concen: 43.16 ng  
RT: 12.43 min Scan# 984  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Instrument :  
BNA\_F  
ClientSampleId :  
PB83273BS

Tgt Ion:284 Resp: 129347  
Ion Ratio Lower Upper  
284 100  
142 27.9 35.2 52.8#  
249 29.7 25.4 38.2

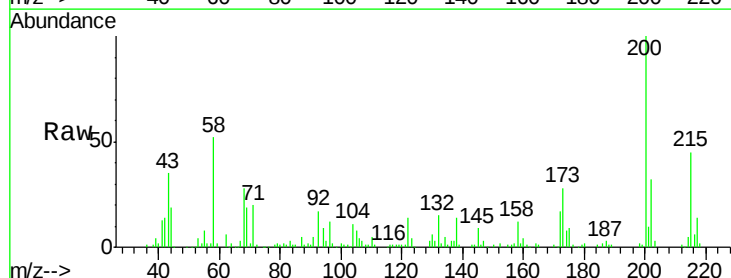


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

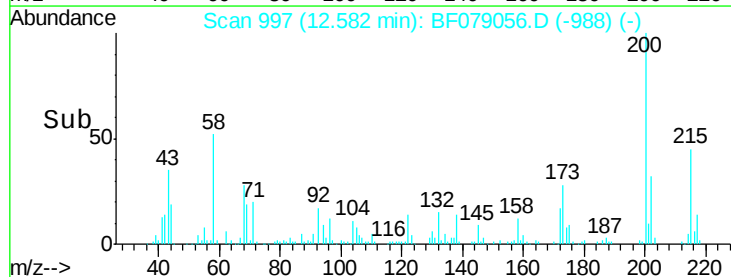
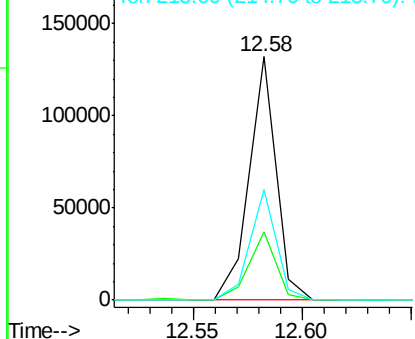


#68  
Atrazine  
Concen: 46.55 ng  
RT: 12.58 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: BF079056.D  
Acq: 8 May 2015 23:59

Tgt Ion:200 Resp: 113427  
Ion Ratio Lower Upper  
200 100  
173 28.0 8.1 48.1  
215 45.4 22.9 62.9



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

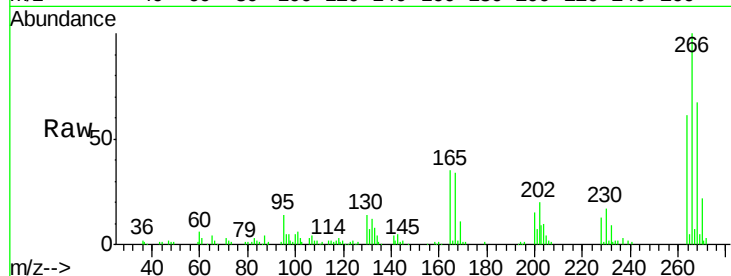




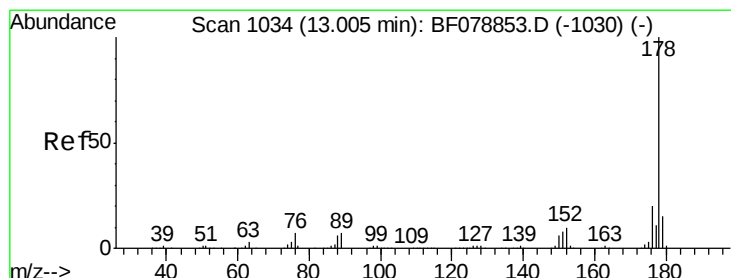
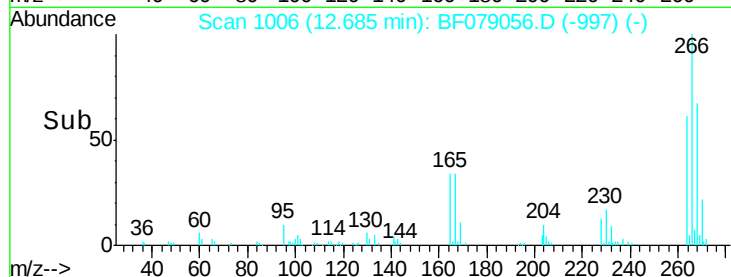
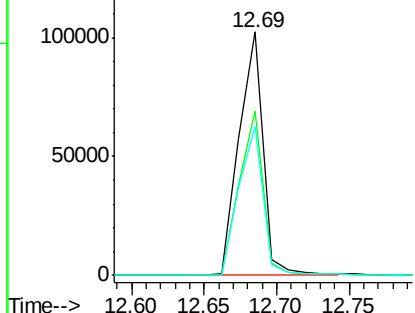
#69  
 Pentachlorophenol  
 Concen: 68.35 ng  
 RT: 12.69 min Scan# 1006  
 Delta R.T. -0.00 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

Tgt Ion: 266 Resp: 117945  
 Ion Ratio Lower Upper  
 266 100  
 268 67.4 55.0 82.6  
 264 61.0 48.2 72.2

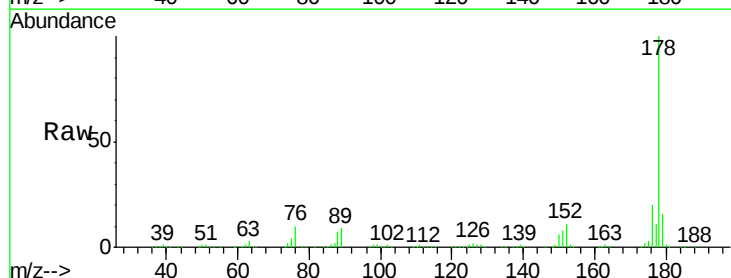


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

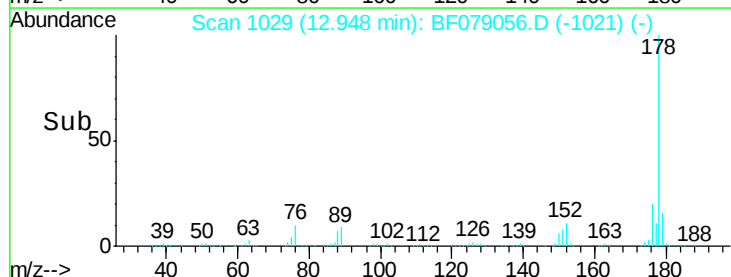
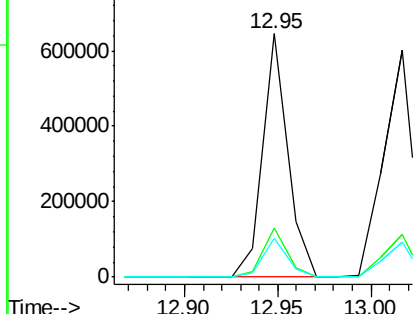


#70  
 Phenanthrene  
 Concen: 42.42 ng  
 RT: 12.95 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion: 178 Resp: 597051  
 Ion Ratio Lower Upper  
 178 100  
 176 20.0 15.8 23.8  
 179 15.7 12.5 18.7



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





#71

Anthracene

Concen: 44.97 ng

RT: 13.02 min Scan# 1035

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

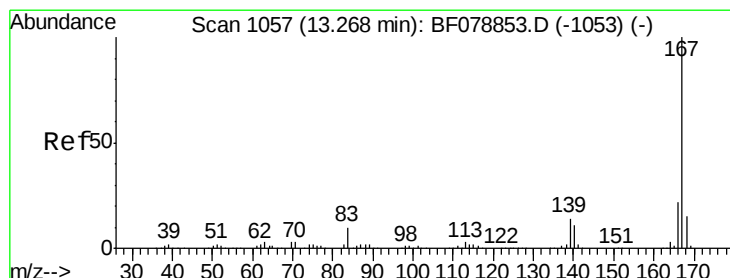
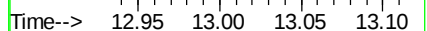
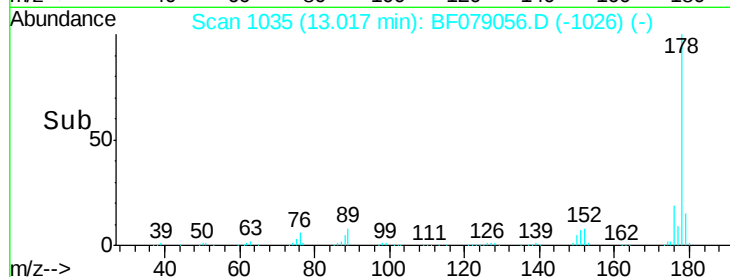
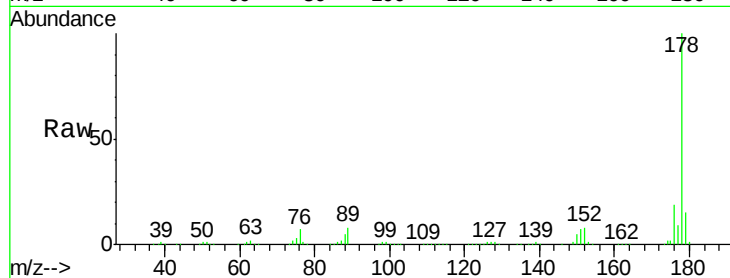
Tgt Ion:178 Resp: 620991

Ion Ratio Lower Upper

178 100

176 18.7 15.5 23.3

179 15.3 12.7 19.1



#72

Carbazole

Concen: 45.30 ng

RT: 13.22 min Scan# 1053

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

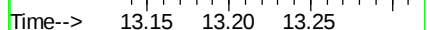
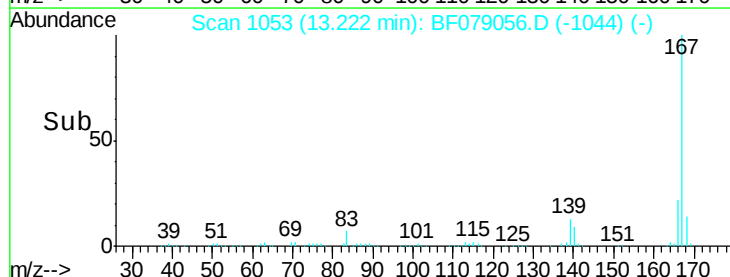
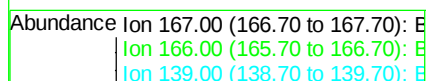
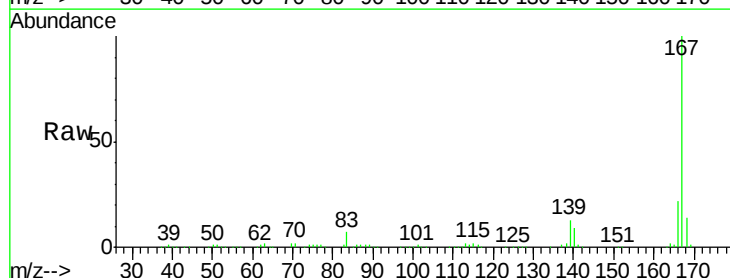
Tgt Ion:167 Resp: 596205

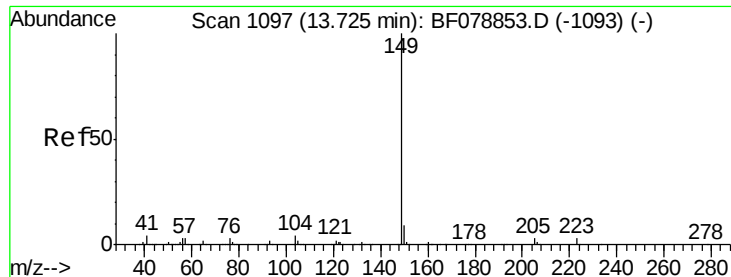
Ion Ratio Lower Upper

167 100

166 22.0 17.8 26.8

139 12.7 10.6 16.0





#73

Di-n-butylphthalate

Concen: 44.36 ng

RT: 13.67 min Scan# 1092

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

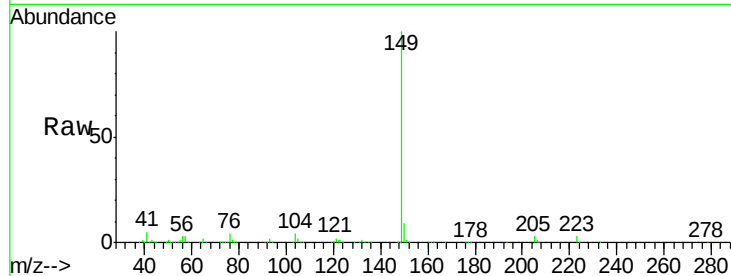
Tgt Ion:149 Resp: 700196

Ion Ratio Lower Upper

149 100

150 9.1 7.7 11.5

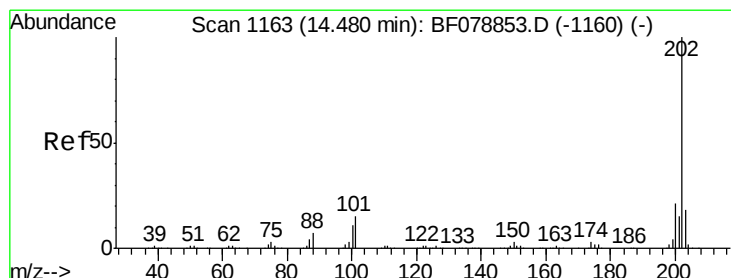
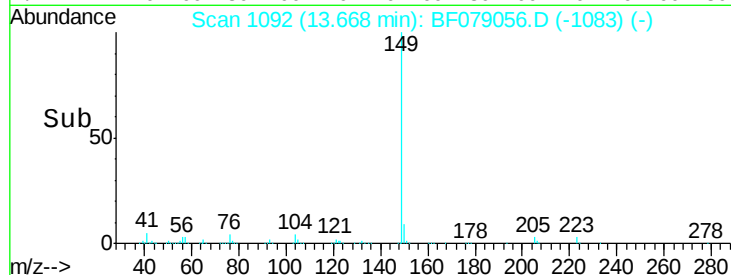
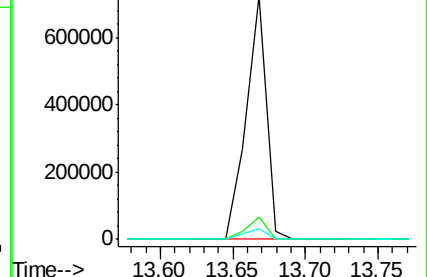
104 4.2 4.6 7.0#



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: 43.63 ng

RT: 14.43 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

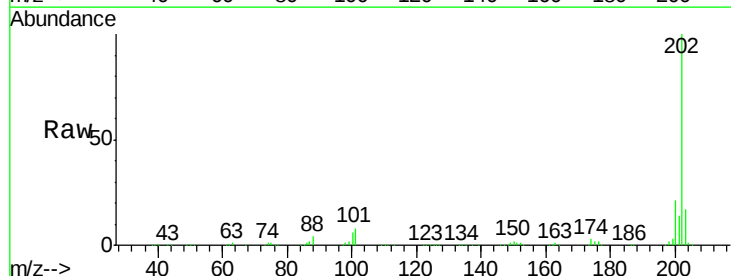
Tgt Ion:202 Resp: 639844

Ion Ratio Lower Upper

202 100

101 8.0 0.0 34.6

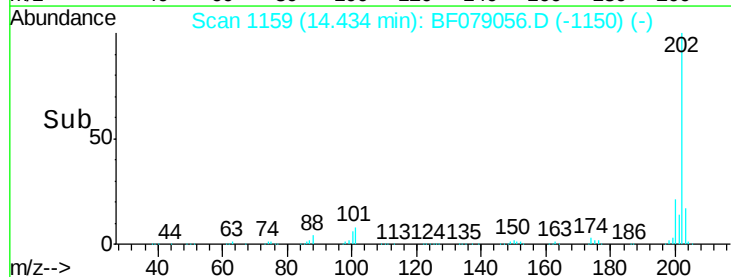
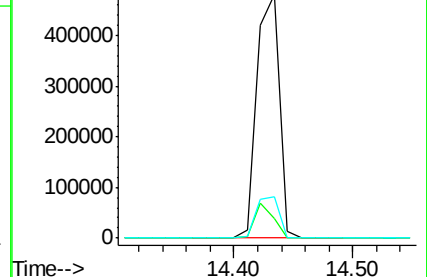
203 17.1 0.0 38.4

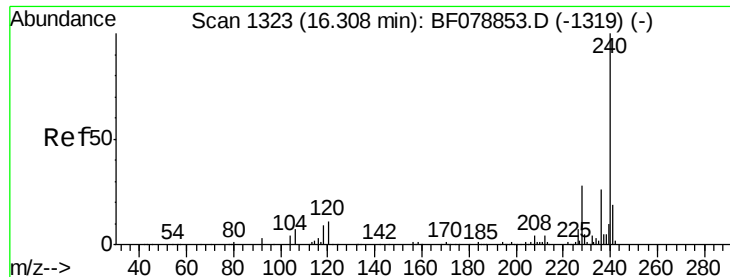


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.22 min Scan# 1315

Delta R.T. -0.03 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

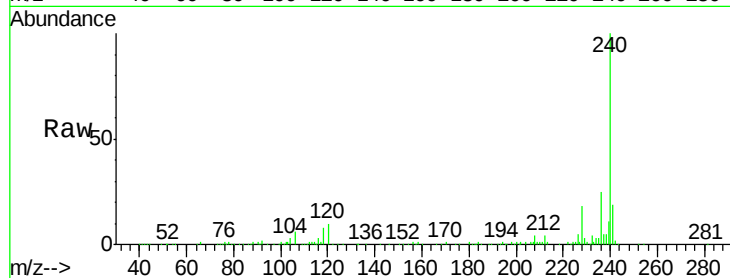
Tgt Ion:240 Resp: 243272

Ion Ratio Lower Upper

240 100

120 9.7 9.7 14.5#

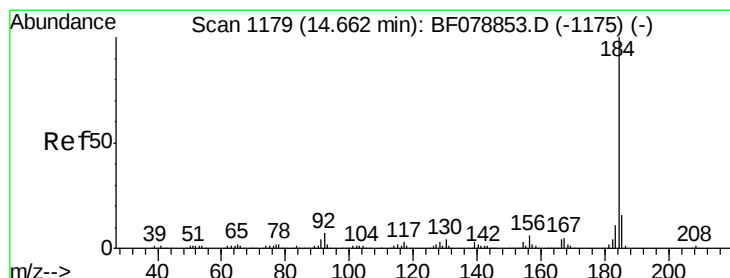
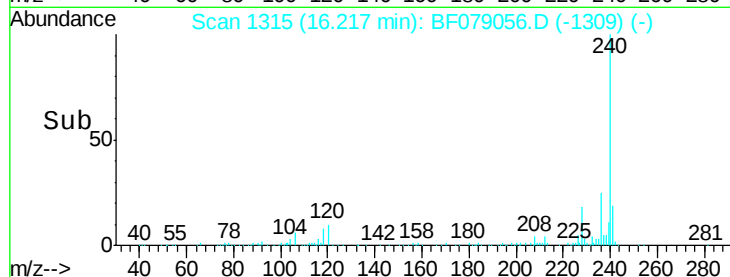
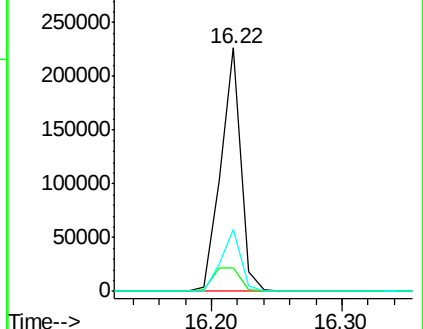
236 25.4 20.2 30.4



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: 45.89 ng

RT: 14.61 min Scan# 1174

Delta R.T. -0.01 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

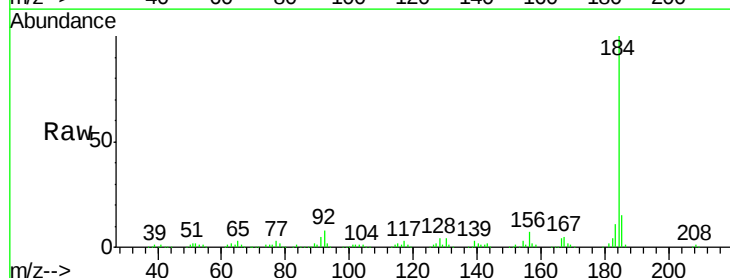
Tgt Ion:184 Resp: 300849

Ion Ratio Lower Upper

184 100

185 14.5 12.3 18.5

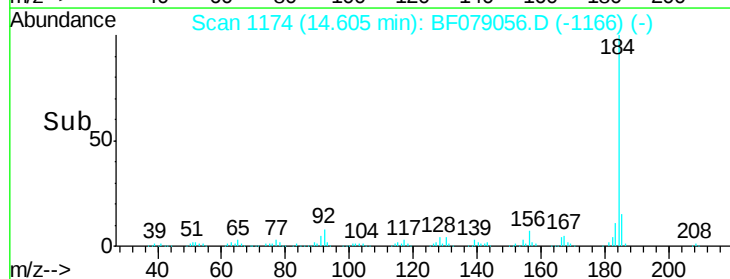
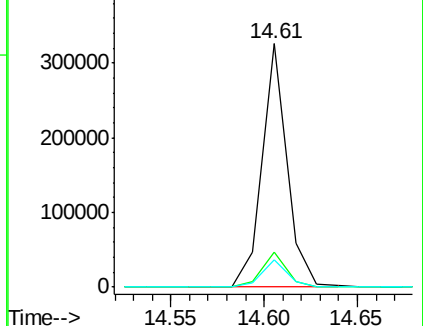
183 11.0 8.4 12.6



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

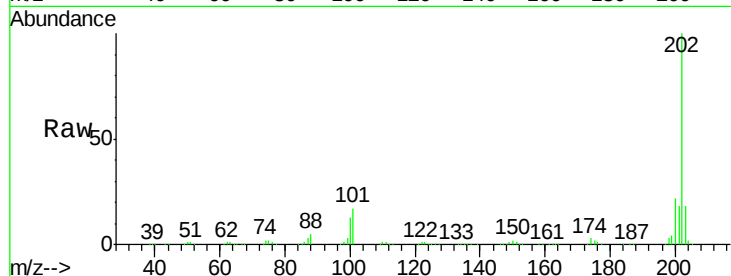




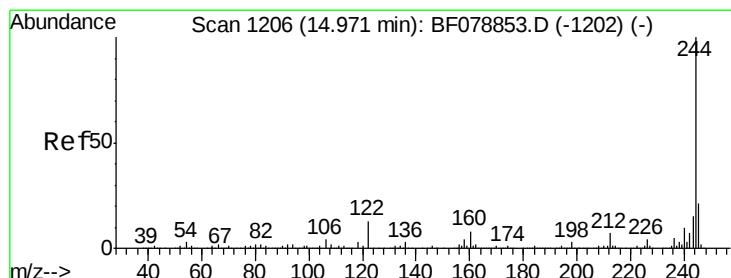
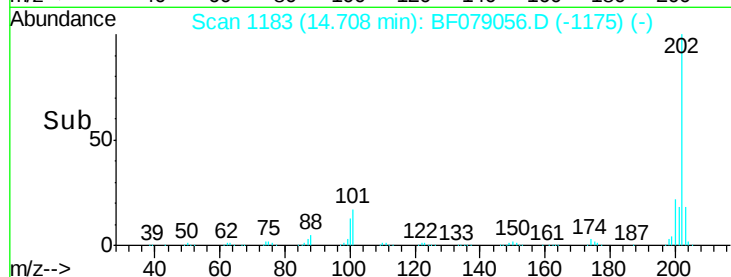
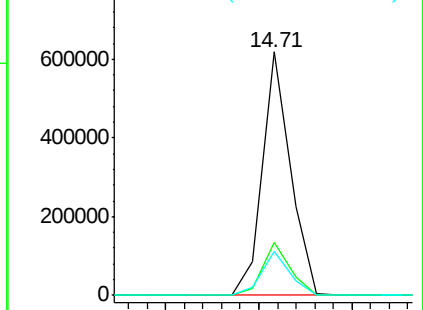
#77  
 Pyrene  
 Concen: 45.74 ng  
 RT: 14.71 min Scan# 1183  
 Delta R.T. -0.01 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.7  | 17.5  | 26.3  |
| 203     | 18.2  | 13.9  | 20.9  |

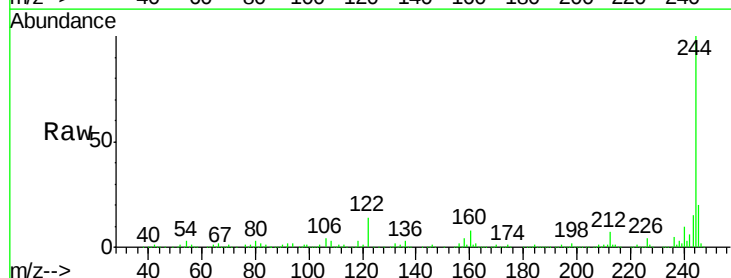


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

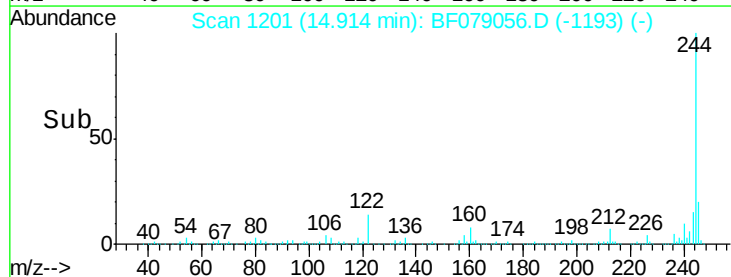
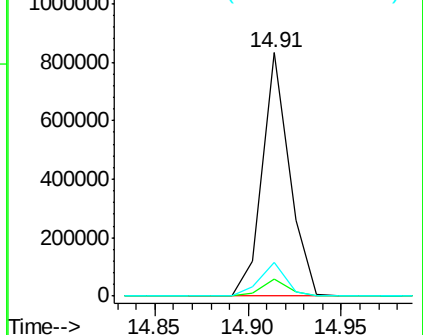


#78  
 Terphenyl-d14  
 Concen: 82.16 ng  
 RT: 14.91 min Scan# 1201  
 Delta R.T. -0.01 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 5.6   | 8.4   |
| 122     | 14.0  | 10.3  | 15.5  |



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: 48.20 ng

RT: 15.53 min Scan# 1255

Delta R.T. -0.01 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

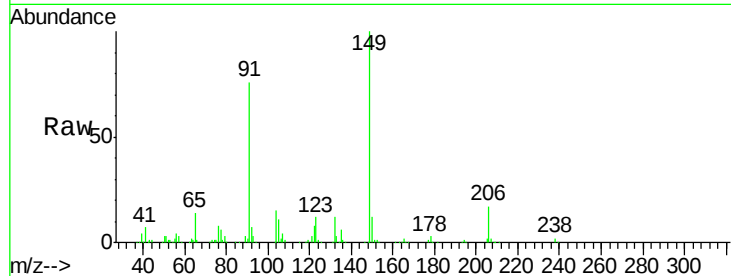
Tgt Ion:149 Resp: 295353

Ion Ratio Lower Upper

149 100

91 75.8 64.6 97.0

206 16.6 12.2 18.4



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E

15.53

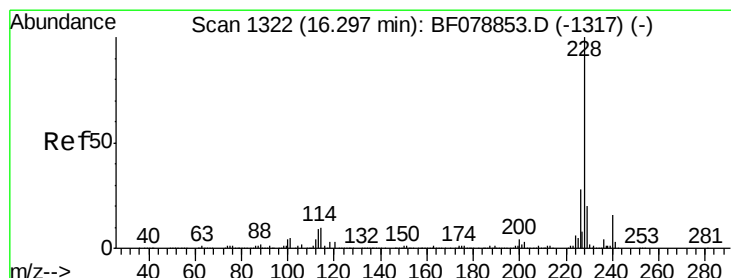
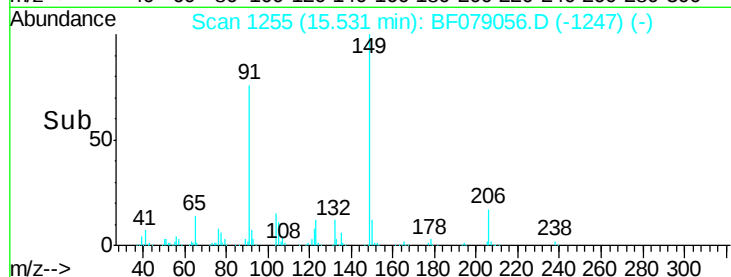
300000

200000

100000

0

Time-->



#80

Benzo(a)anthracene

Concen: 45.90 ng

RT: 16.21 min Scan# 1314

Delta R.T. -0.02 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

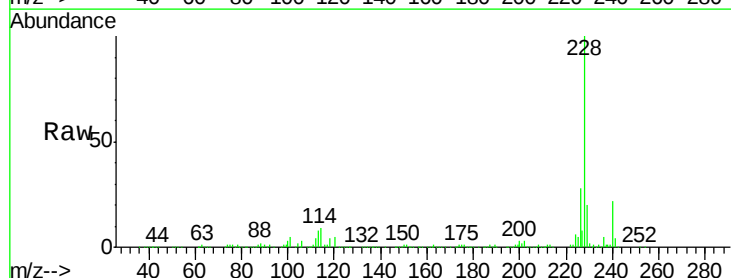
Tgt Ion:228 Resp: 611438

Ion Ratio Lower Upper

228 100

226 27.9 22.6 33.8

229 19.7 15.9 23.9



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

16.21

600000

500000

400000

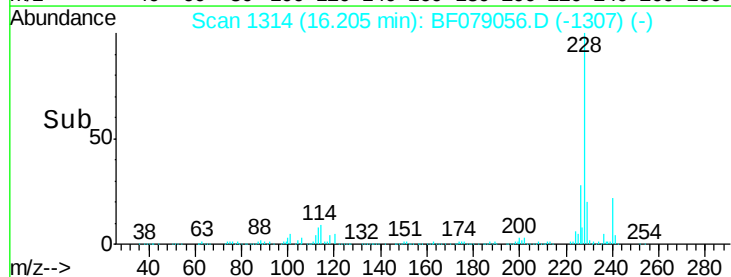
300000

200000

100000

0

Time-->

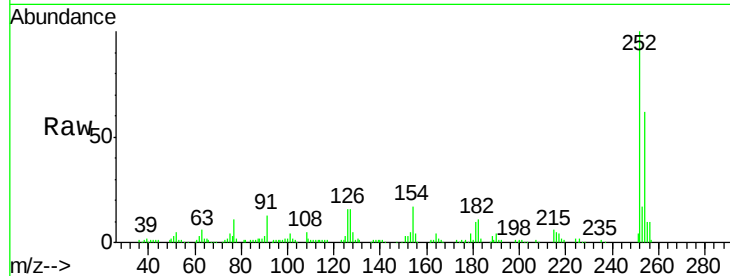




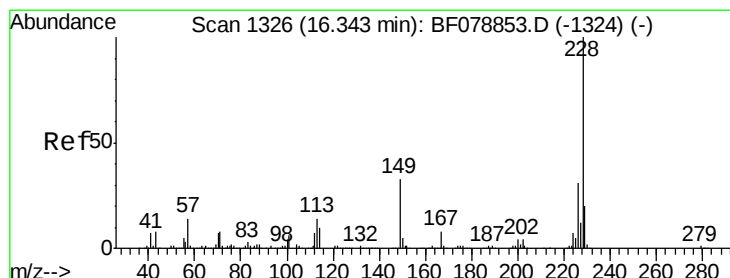
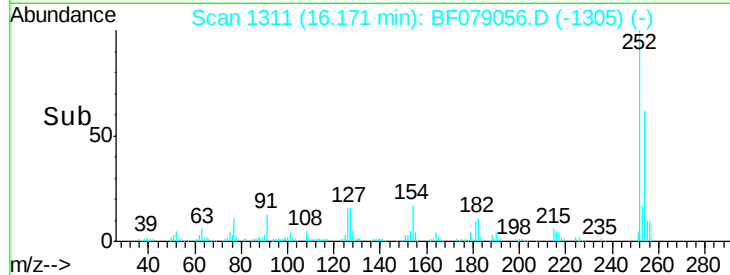
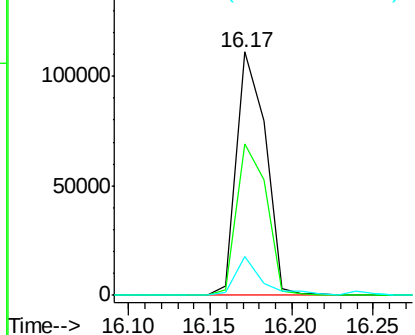
#81  
 3,3'-Dichlorobenzidine  
 Concen: 28.84 ng  
 RT: 16.17 min Scan# 1311  
 Delta R.T. -0.03 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Instrument :  
 BNA\_F  
 ClientSampled :  
 PB83273BS

Tgt Ion:252 Resp: 136854  
 Ion Ratio Lower Upper  
 252 100  
 254 62.4 51.3 76.9  
 126 15.8 6.6 10.0#

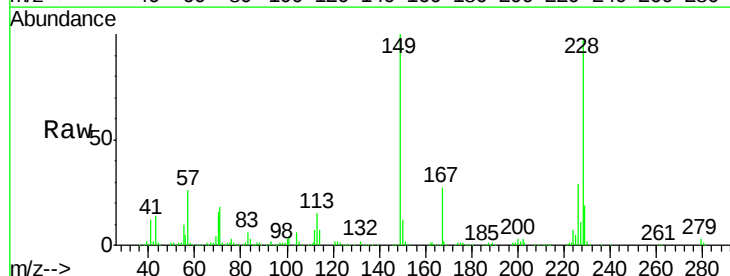


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

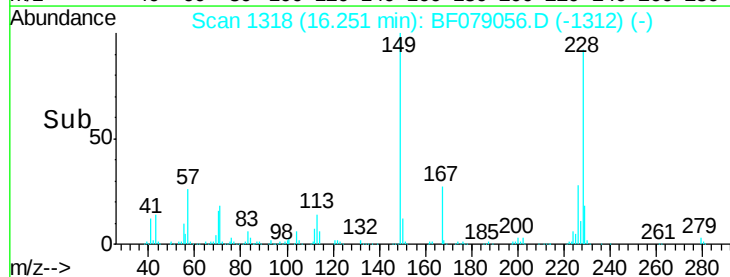
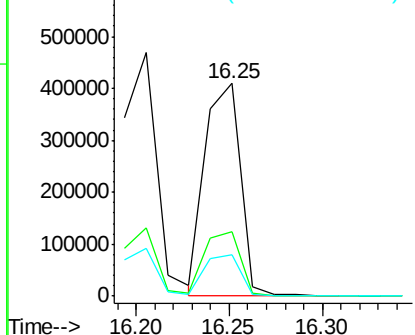


#82  
 Chrysene  
 Concen: 42.29 ng  
 RT: 16.25 min Scan# 1318  
 Delta R.T. -0.03 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:228 Resp: 541866  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 24.9 37.3  
 229 19.4 16.0 24.0



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

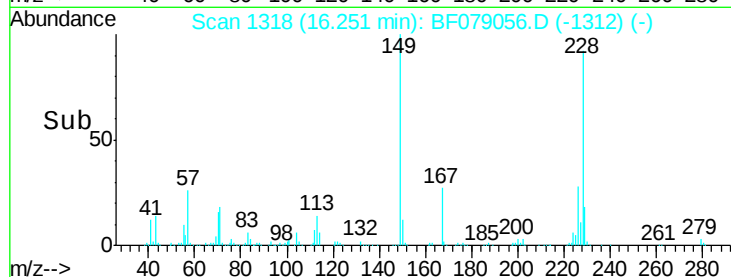
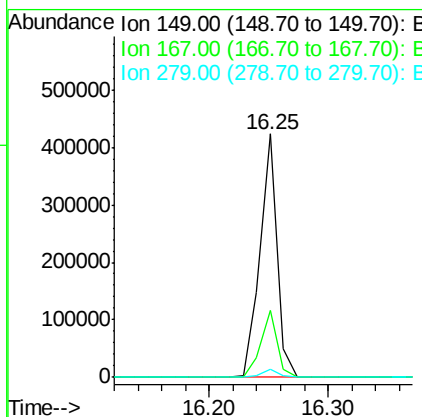
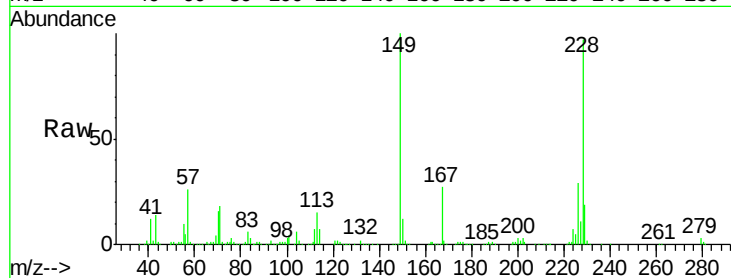




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 46.56 ng  
 RT: 16.25 min Scan# 1318  
 Delta R.T. -0.03 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

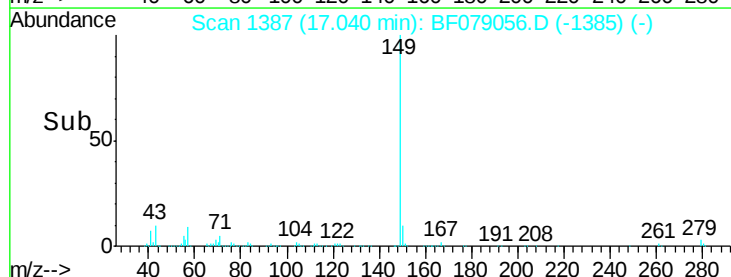
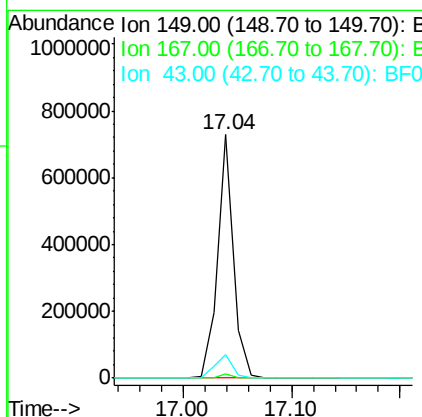
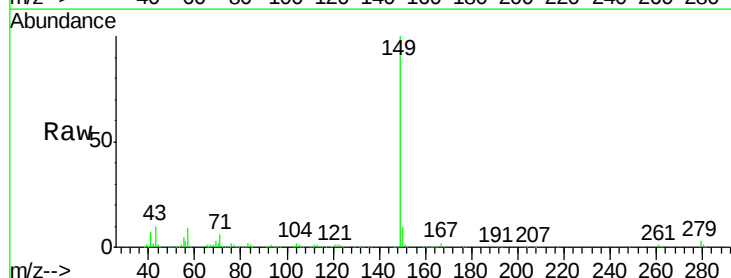
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

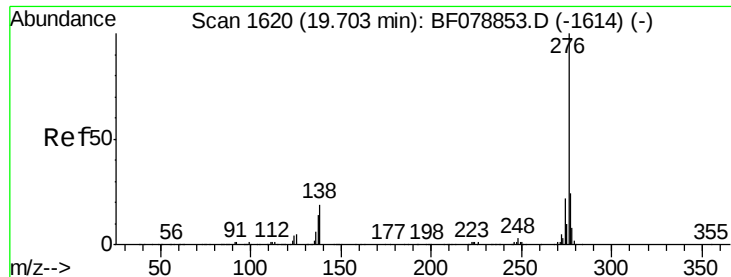
Tgt Ion:149 Resp: 432163  
 Ion Ratio Lower Upper  
 149 100  
 167 27.4 21.8 32.8  
 279 3.3 2.9 4.3



#84  
 Di-n-octyl phthalate  
 Concen: 45.59 ng  
 RT: 17.04 min Scan# 1387  
 Delta R.T. -0.08 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:149 Resp: 745317  
 Ion Ratio Lower Upper  
 149 100  
 167 1.5 0.0 0.0#  
 43 10.8 0.0 0.0#

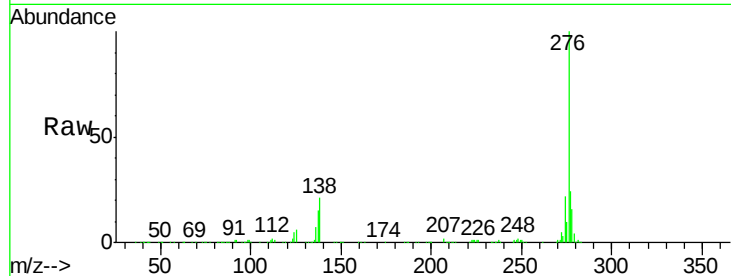




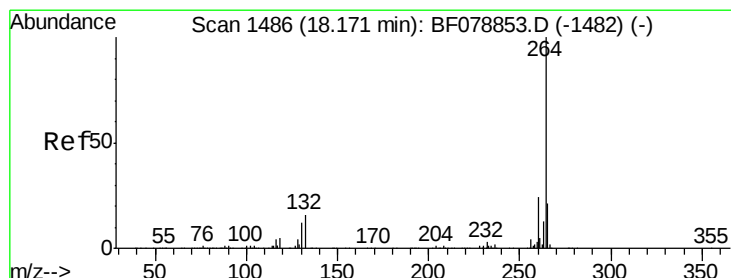
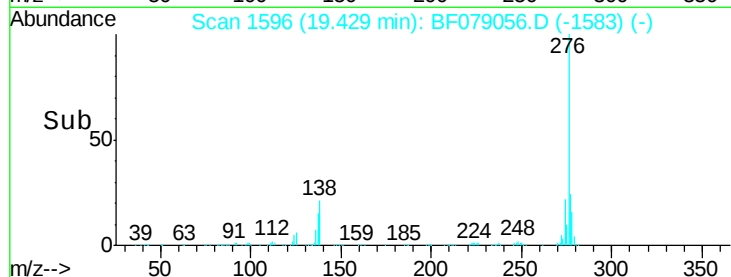
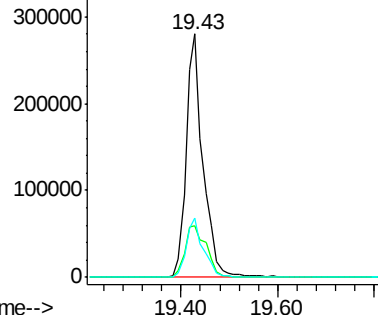
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 42.36 ng  
 RT: 19.43 min Scan# 1596  
 Delta R.T. -0.15 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83273BS

Tgt Ion:276 Resp: 691471  
 Ion Ratio Lower Upper  
 276 100  
 138 26.8 0.0 0.0#  
 277 24.8 0.0 0.0#

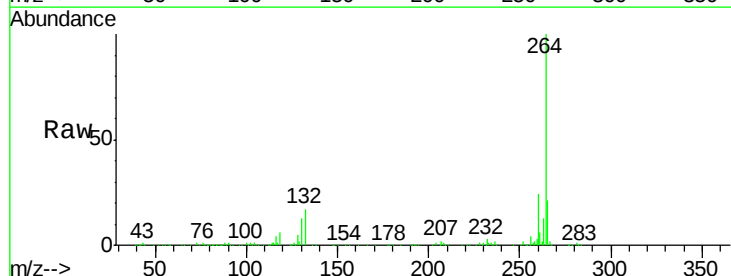


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

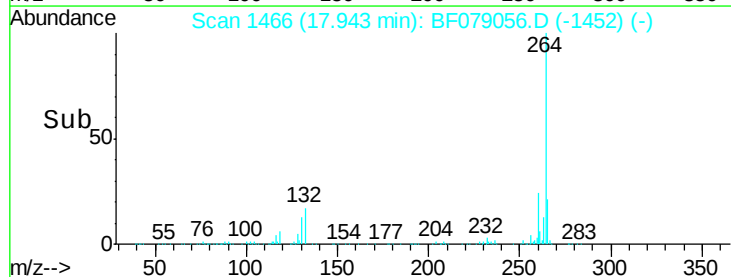
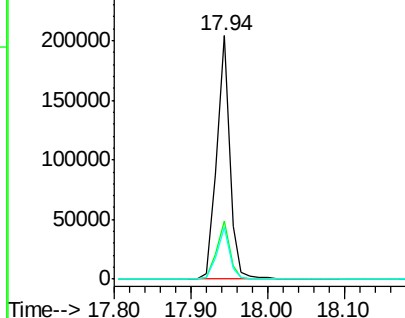


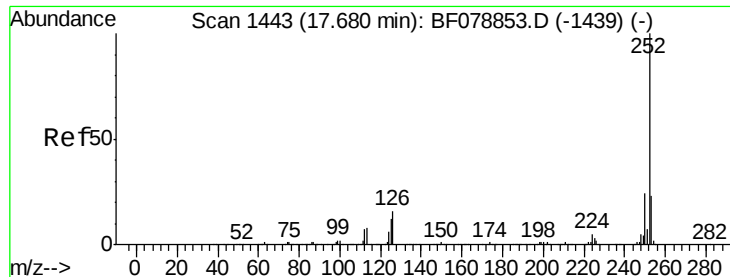
#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 17.94 min Scan# 1466  
 Delta R.T. -0.14 min  
 Lab File: BF079056.D  
 Acq: 8 May 2015 23:59

Tgt Ion:264 Resp: 241662  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.4 29.2  
 265 21.4 18.3 27.5



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: 44.31 ng

RT: 17.50 min Scan# 1427

Delta R.T. -0.10 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

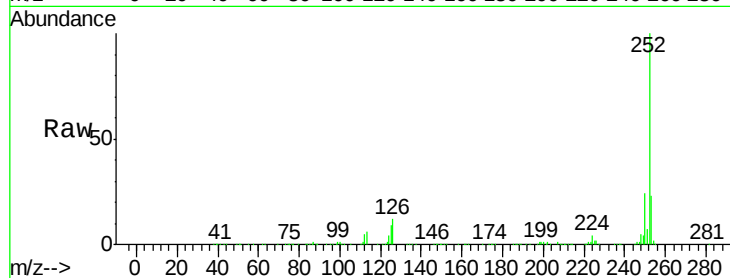
Tgt Ion:252 Resp: 586114

Ion Ratio Lower Upper

252 100

253 22.5 17.7 26.5

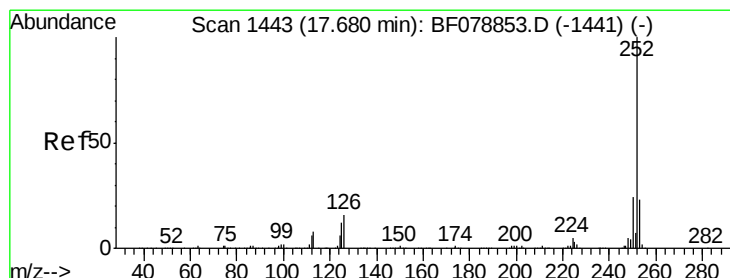
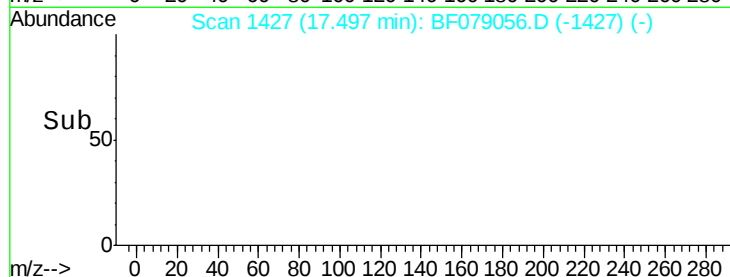
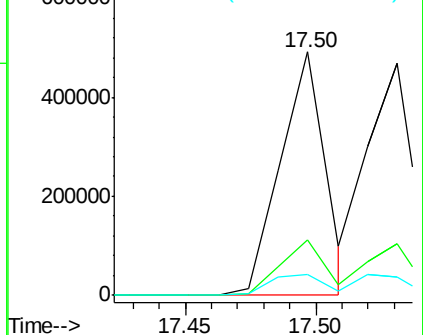
125 8.7 9.5 14.3#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 45.77 ng

RT: 17.50 min Scan# 1427

Delta R.T. -0.14 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

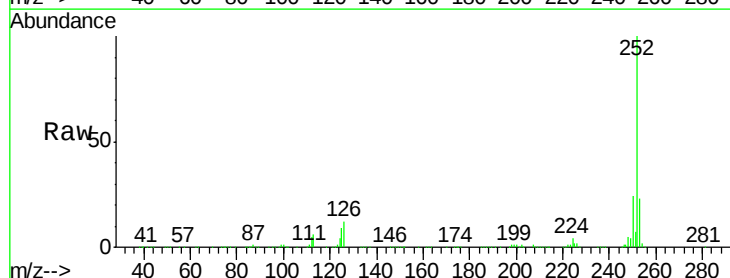
Tgt Ion:252 Resp: 586114

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

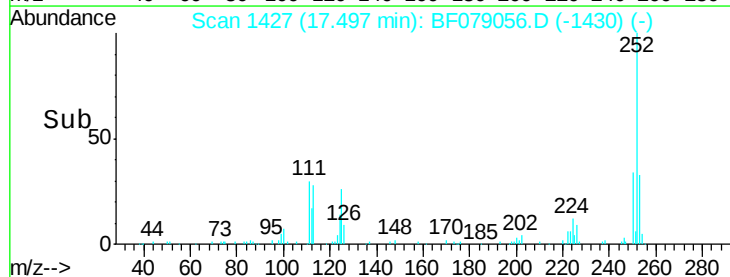
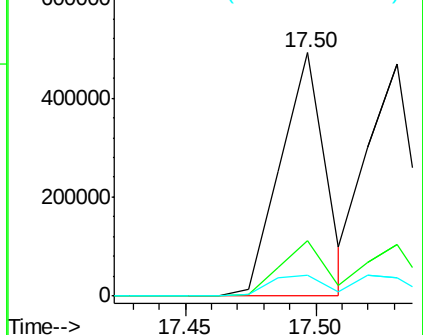
125 8.7 10.0 15.0#

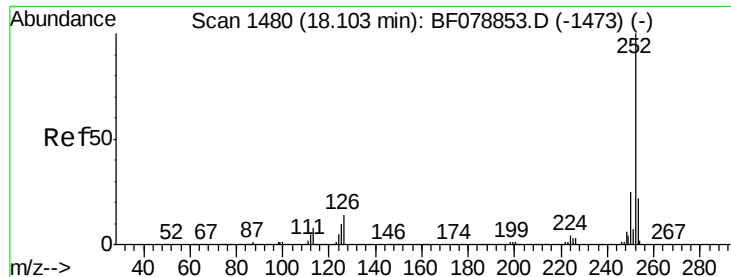


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 45.88 ng

RT: 17.87 min Scan# 1460

Delta R.T. -0.14 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

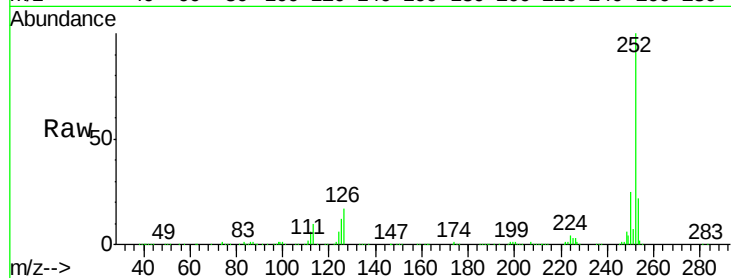
Tgt Ion:252 Resp: 558779

Ion Ratio Lower Upper

252 100

253 22.1 17.3 25.9

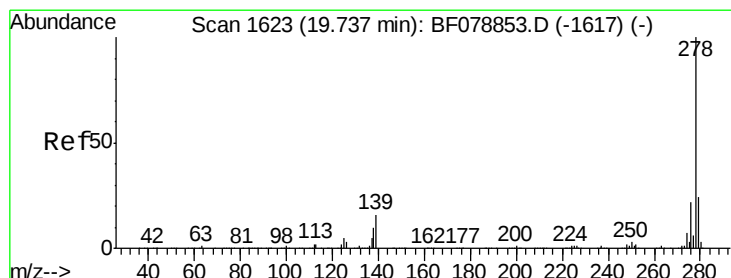
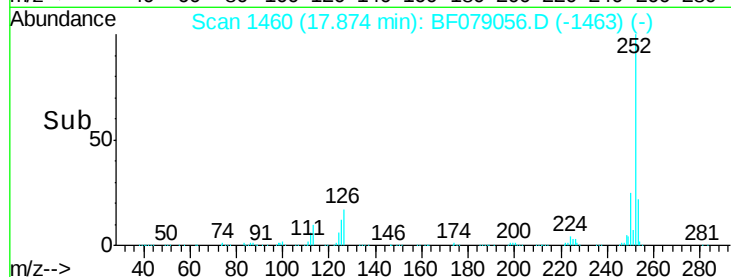
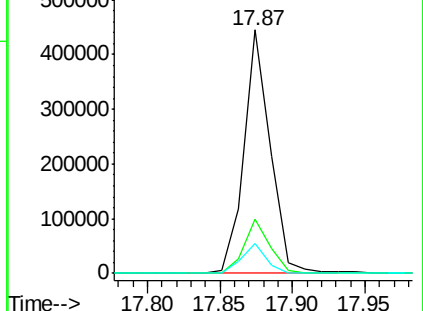
125 12.3 7.0 10.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 42.86 ng

RT: 19.45 min Scan# 1598

Delta R.T. -0.16 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

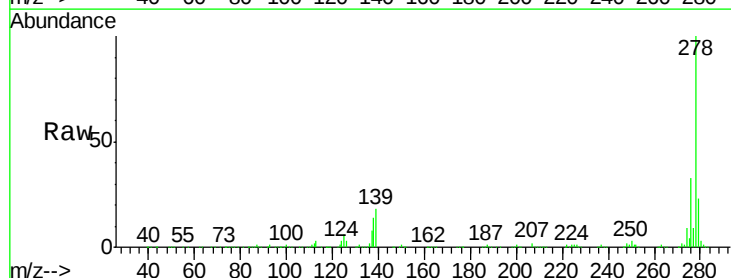
Tgt Ion:278 Resp: 554778

Ion Ratio Lower Upper

278 100

139 18.3 12.8 19.2

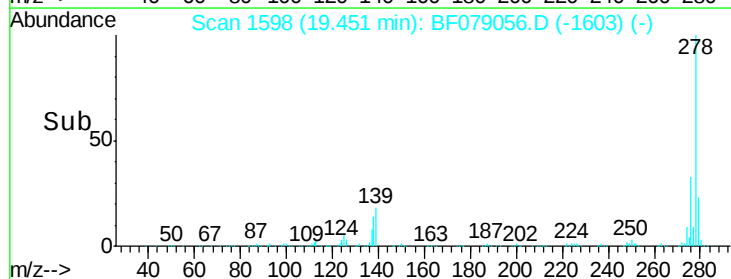
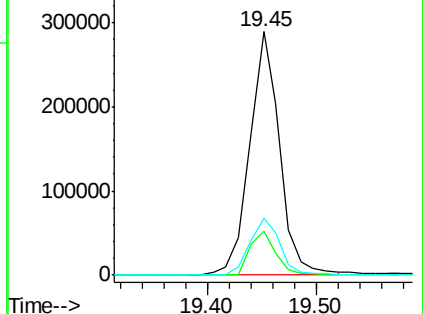
279 23.5 19.6 29.4

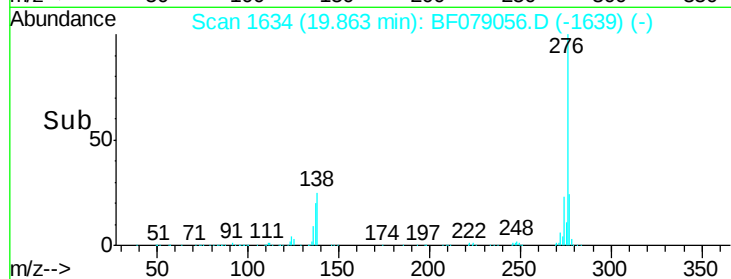
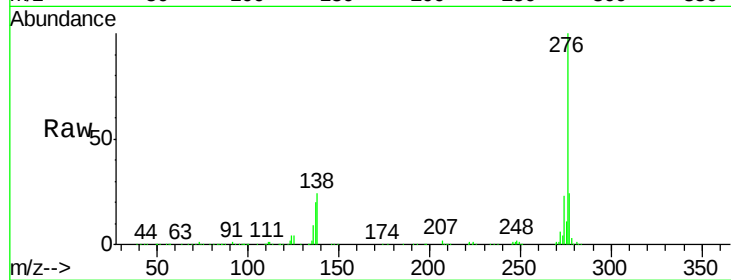
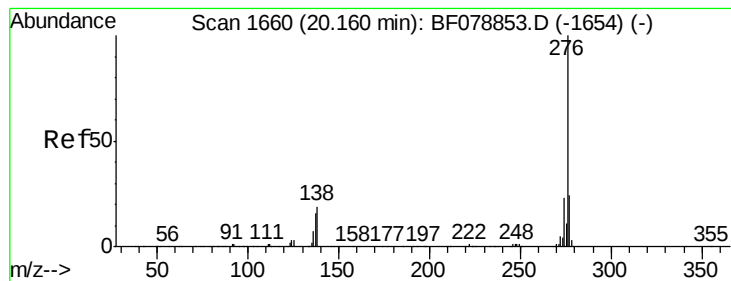


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 43.07 ng

RT: 19.86 min Scan# 1634

Delta R.T. -0.16 min

Lab File: BF079056.D

Acq: 8 May 2015 23:59

Instrument :

BNA\_F

ClientSampleId :

PB83273BS

Tgt Ion: 276 Resp: 558776

Ion Ratio Lower Upper

276 100

277 24.3 18.6 28.0

138 24.5 17.4 26.0

