

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071416\  
 Data File : BF088992.D  
 Acq On : 14 Jul 2016 18:16  
 Operator : UM/SJ  
 Sample : PB92031BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Quant Time: Jul 15 01:17:09 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.68  | 152  | 60545    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.98  | 136  | 256652   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.72  | 164  | 123600   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.20 | 188  | 225579   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.82 | 240  | 142174   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.18 | 264  | 99272    | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.28  | 112  | 268001   | 66.34 | ng    | -0.01    |
| 7) Phenol-d6                | 6.34  | 99   | 370686   | 71.01 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 330544   | 67.49 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.51 | 330  | 72442    | 63.12 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.05  | 172  | 596264   | 76.20 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.78 | 244  | 510335   | 79.95 | ng    | -0.02    |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 2.23 | 88   | 70719    | 35.31 | ng    | # 25   |
| 3) Pyridine                    | 2.88 | 79   | 125875   | 21.66 | ng    | 92     |
| 4) n-Nitrosodimethylamine      | 2.83 | 42   | 64696    | 29.14 | ng    | 97     |
| 6) Aniline                     | 6.34 | 93   | 164565   | 21.63 | ng    | # 49   |
| 8) 2-Chlorophenol              | 6.47 | 128  | 150549   | 34.67 | ng    | 95     |
| 9) Benzaldehyde                | 6.23 | 77   | 46007    | 13.01 | ng    | 94     |
| 10) Phenol                     | 6.35 | 94   | 222167   | 37.29 | ng    | 82     |
| 11) bis(2-Chloroethyl)ether    | 6.42 | 93   | 140833   | 31.70 | ng    | 94     |
| 12) 1,3-Dichlorobenzene        | 6.63 | 146  | 157583   | 32.98 | ng    | 96     |
| 13) 1,4-Dichlorobenzene        | 6.71 | 146  | 154716   | 32.62 | ng    | 97     |
| 14) 1,2-Dichlorobenzene        | 6.71 | 146  | 154716   | 34.85 | ng    | 98     |
| 15) Benzyl Alcohol             | 6.83 | 79   | 143718   | 37.41 | ng    | 90     |
| 16) 2,2'-oxybis(1-Chloropropan | 6.98 | 45   | 179870   | 27.96 | ng    | 85     |
| 17) 2-Methylphenol             | 6.96 | 107  | 127661   | 36.04 | ng    | 93     |
| 18) Hexachloroethane           | 7.20 | 117  | 62034    | 33.82 | ng    | 90     |
| 19) n-Nitroso-di-n-propylamine | 7.11 | 70   | 114915   | 32.77 | ng    | 97     |
| 20) 3+4-Methylphenols          | 7.12 | 107  | 180340   | 42.42 | ng    | # 76   |
| 22) Acetophenone               | 7.11 | 105  | 232923   | 37.39 | ng    | # 91   |
| 24) Nitrobenzene               | 7.28 | 77   | 172887   | 35.01 | ng    | 100    |
| 25) Isophorone                 | 7.52 | 82   | 322003   | 35.49 | ng    | 97     |
| 26) 2-Nitrophenol              | 7.59 | 139  | 77114    | 38.08 | ng    | # 91   |
| 27) 2,4-Dimethylphenol         | 7.64 | 122  | 159738   | 37.88 | ng    | 89     |
| 28) bis(2-Chloroethoxy)methane | 7.74 | 93   | 216927   | 36.74 | ng    | # 96   |
| 29) 2,4-Dichlorophenol         | 7.84 | 162  | 142596   | 41.84 | ng    | 99     |
| 30) 1,2,4-Trichlorobenzene     | 7.92 | 180  | 140307   | 37.51 | ng    | 99     |
| 31) Naphthalene                | 8.00 | 128  | 461273   | 36.46 | ng    | 99     |
| 33) 4-Chloroaniline            | 8.04 | 127  | 112790   | 20.04 | ng    | 97     |
| 34) Hexachlorobutadiene        | 8.11 | 225  | 65701    | 32.80 | ng    | 98     |
| 35) Caprolactam                | 8.47 | 113  | 16072    | 13.88 | ng    | 90     |
| 36) 4-Chloro-3-methylphenol    | 8.54 | 107  | 164407   | 40.79 | ng    | 87     |
| 37) 2-Methylnaphthalene        | 8.68 | 142  | 317622   | 38.99 | ng    | # 94   |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.86 | 216  | 140004   | 34.06 | ng    | # 1    |
| 40) Hexachlorocyclopentadiene  | 8.84 | 237  | 128529   | 63.70 | ng    | 100    |
| 42) 2,4,6-Trichlorophenol      | 8.97 | 196  | 98422    | 36.31 | ng    | 99     |

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 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

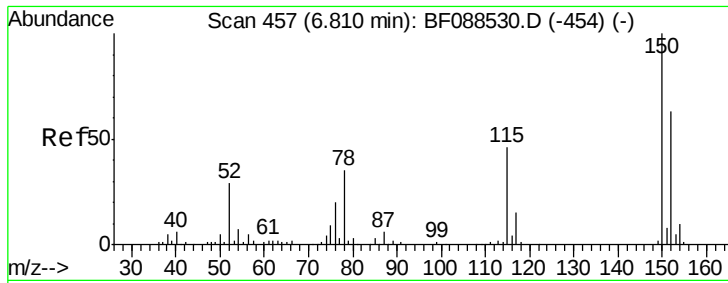
Instrument :  
 BNA\_F  
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Quant Time: Jul 15 01:17:09 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 43) 2,4,5-Trichlorophenol      | 9.02  | 196  | 101710   | 43.61 | ng    | 99       |
| 45) 1,1'-Biphenyl              | 9.15  | 154  | 399444   | 39.03 | ng    | 95       |
| 46) 2-Chloronaphthalene        | 9.16  | 162  | 289512   | 36.03 | ng    | 95       |
| 47) 2-Nitroaniline             | 9.27  | 65   | 98968    | 34.71 | ng    | 98       |
| 48) Acenaphthylene             | 9.59  | 152  | 491112   | 38.41 | ng    | 99       |
| 49) Dimethylphthalate          | 9.46  | 163  | 383597   | 43.56 | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.52  | 165  | 84414    | 43.25 | ng    | 99       |
| 51) Acenaphthene               | 9.76  | 154  | 297508   | 37.96 | ng    | 97       |
| 52) 3-Nitroaniline             | 9.68  | 138  | 66574    | 26.83 | ng    | 95       |
| 53) 2,4-Dinitrophenol          | 9.78  | 184  | 11920    | 13.83 | ng    | # 68     |
| 54) Dibenzofuran               | 9.93  | 168  | 421634   | 41.11 | ng    | 96       |
| 55) 4-Nitrophenol              | 9.86  | 139  | 131846   | 69.93 | ng    | 90       |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 116775   | 45.76 | ng    | # 63     |
| 57) Fluorene                   | 10.26 | 166  | 301214   | 38.11 | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.04 | 232  | 67926    | 37.65 | ng    | # 44     |
| 59) Diethylphthalate           | 10.15 | 149  | 363117   | 41.09 | ng    | 97       |
| 60) 4-Chlorophenyl-phenylether | 10.26 | 204  | 156485   | 42.61 | ng    | 95       |
| 61) 4-Nitroaniline             | 10.30 | 138  | 86316    | 36.15 | ng    | 94       |
| 62) Azobenzene                 | 10.42 | 77   | 435624   | 43.22 | ng    | 97       |
| 64) 4,6-Dinitro-2-methylphenol | 10.32 | 198  | 20632    | 17.10 | ng    | 94       |
| 65) n-Nitrosodiphenylamine     | 10.39 | 169  | 299056   | 39.17 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.75 | 248  | 86903    | 38.23 | ng    | # 90     |
| 67) Hexachlorobenzene          | 10.81 | 284  | 87110    | 34.62 | ng    | 96       |
| 68) Atrazine                   | 10.91 | 200  | 84340    | 35.45 | ng    | 92       |
| 69) Pentachlorophenol          | 11.00 | 266  | 54496    | 36.59 | ng    | 97       |
| 70) Phenanthrene               | 11.22 | 178  | 524788   | 42.56 | ng    | 98       |
| 71) Anthracene                 | 11.27 | 178  | 450269   | 36.72 | ng    | 99       |
| 72) Carbazole                  | 11.43 | 167  | 444568   | 38.52 | ng    | 99       |
| 73) Di-n-butylphthalate        | 11.77 | 149  | 602072   | 44.85 | ng    | 99       |
| 74) Fluoranthene               | 12.40 | 202  | 491371   | 39.31 | ng    | 98       |
| 76) Benzidine                  | 12.52 | 184  | 192324   | 26.76 | ng    | 97       |
| 77) Pyrene                     | 12.63 | 202  | 495034   | 41.07 | ng    | 98       |
| 79) Butylbenzylphthalate       | 13.26 | 149  | 224432   | 41.74 | ng    | 95       |
| 80) Benzo(a)anthracene         | 13.81 | 228  | 345437   | 37.73 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.77 | 252  | 51673    | 15.01 | ng    | # 96     |
| 82) Chrysene                   | 13.84 | 228  | 272598   | 30.10 | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 13.82 | 149  | 272973   | 44.47 | ng    | 99       |
| 84) Di-n-octyl phthalate       | 14.42 | 149  | 385314   | 36.95 | ng    | # 100    |
| 85) Indeno(1,2,3-cd)pyrene     | 16.46 | 276  | 268623   | 38.55 | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 14.83 | 252  | 489649   | 78.63 | ng    | 99       |
| 88) Benzo(k)fluoranthene       | 14.83 | 252  | 489649   | 90.32 | ng    | # 94     |
| 89) Benzo(a)pyrene             | 15.12 | 252  | 229952   | 43.61 | ng    | 100      |
| 90) Dibenzo(a,h)anthracene     | 16.47 | 278  | 223782   | 50.83 | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 16.83 | 276  | 228227   | 50.09 | ng    | 98       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 446

Delta R.T. -0.02 min

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BNA\_F

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PB92031BS

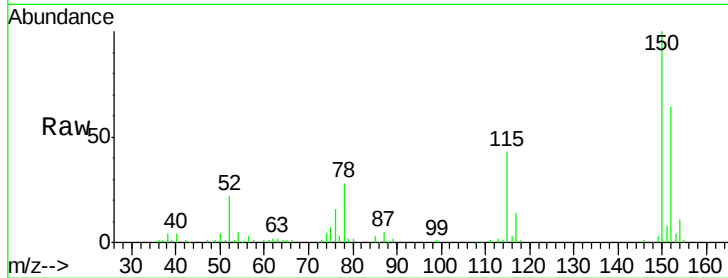
Tgt Ion:152 Resp: 60545

Ion Ratio Lower Upper

152 100

150 156.5 123.8 185.6

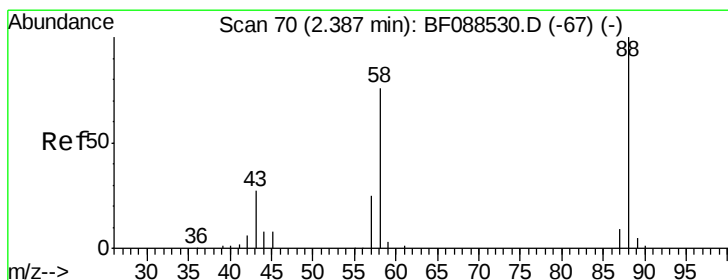
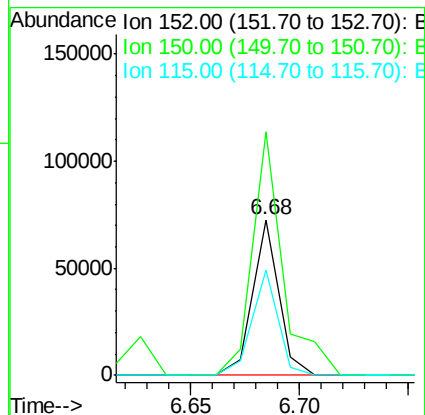
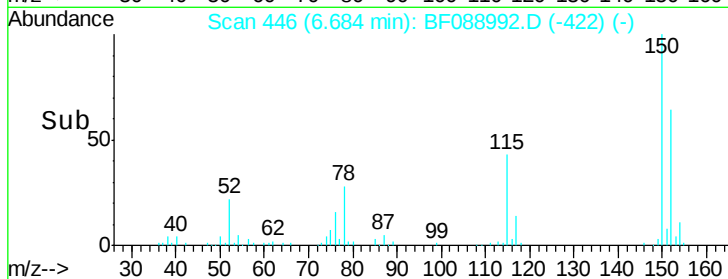
115 67.7 39.6 59.4#



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: 35.31 ng

RT: 2.23 min Scan# 56

Delta R.T. 0.01 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

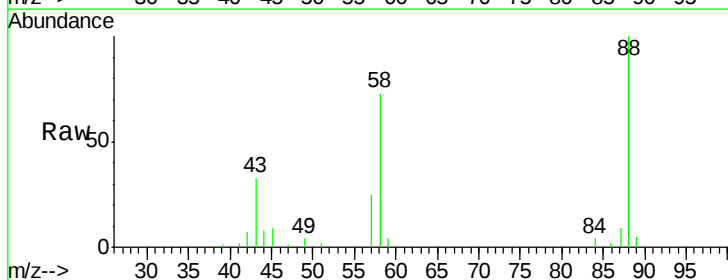
Tgt Ion: 88 Resp: 70719

Ion Ratio Lower Upper

88 100

58 71.6 0.0 0.0#

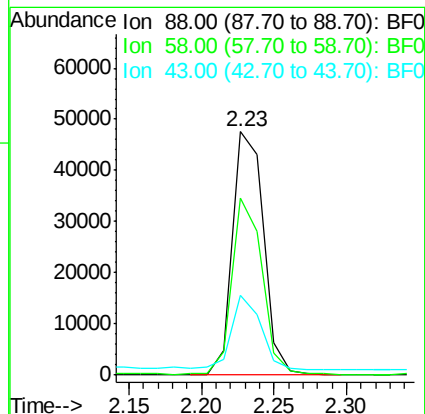
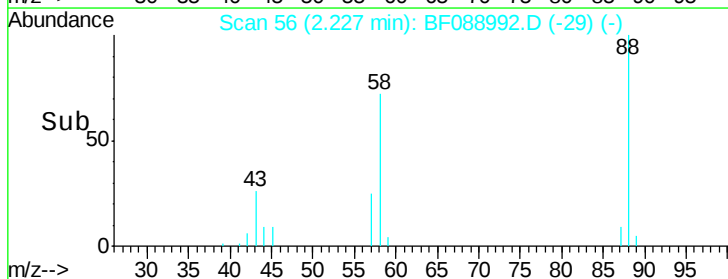
43 29.0 3.4 5.2#



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: 21.66 ng

RT: 2.88 min Scan# 113

Delta R.T. -0.00 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

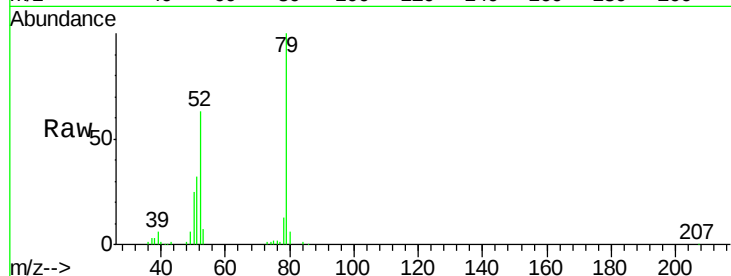
Tgt Ion: 79 Resp: 125875

Ion Ratio Lower Upper

79 100

52 62.5 56.3 84.5

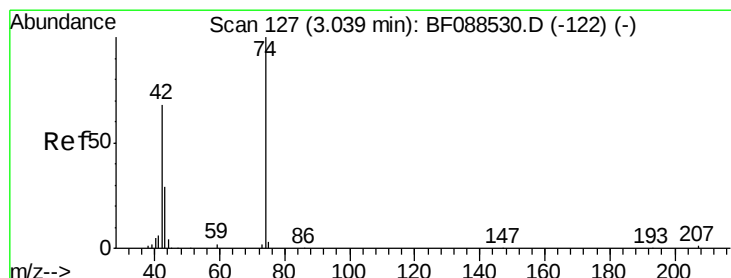
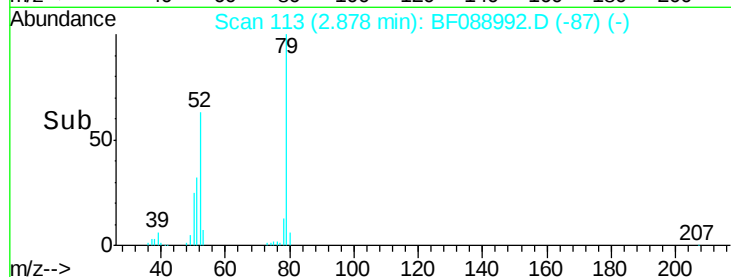
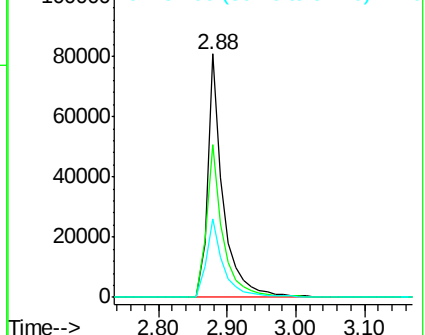
51 32.3 27.4 41.2



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 29.14 ng

RT: 2.83 min Scan# 109

Delta R.T. -0.00 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

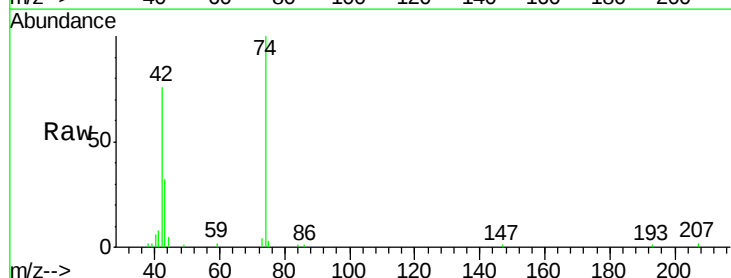
Tgt Ion: 42 Resp: 64696

Ion Ratio Lower Upper

42 100

74 132.4 108.6 163.0

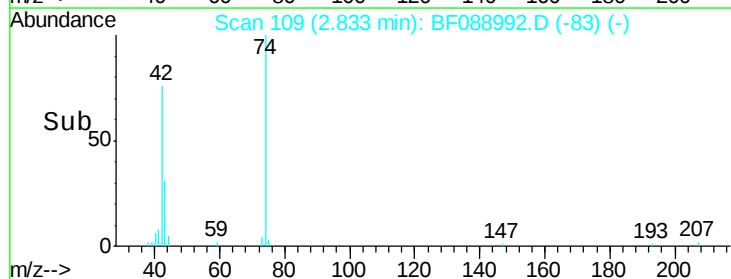
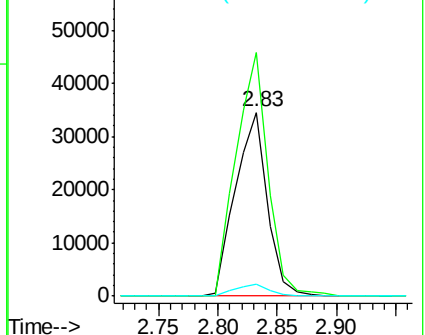
44 6.4 5.5 8.3

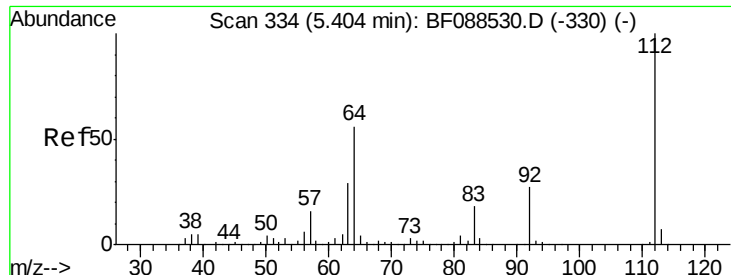


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 66.34 ng

RT: 5.28 min Scan# 323

Delta R.T. -0.01 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

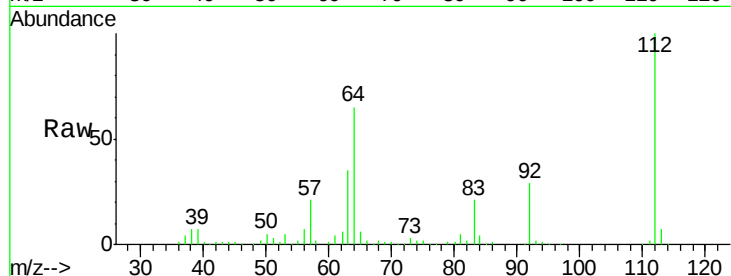
Tgt Ion: 112 Resp: 268001

Ion Ratio Lower Upper

112 100

64 65.1 42.2 63.2#

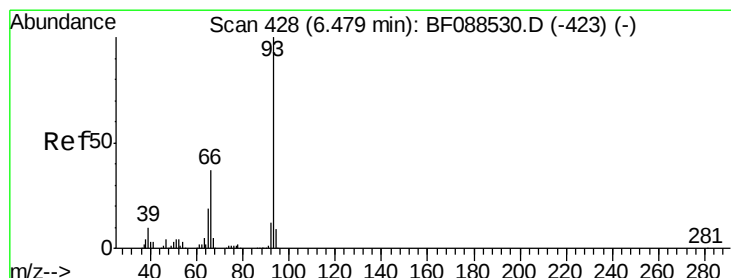
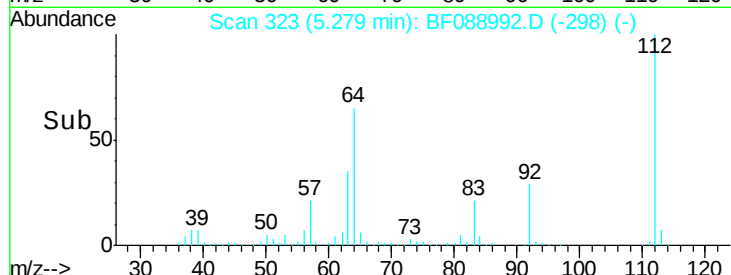
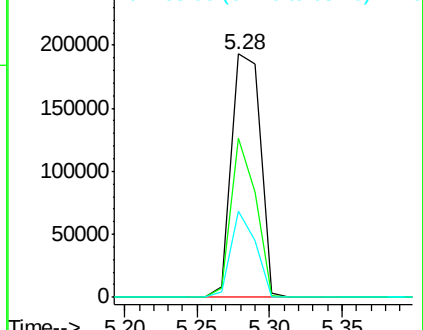
63 35.2 21.8 32.8#



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: 21.63 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

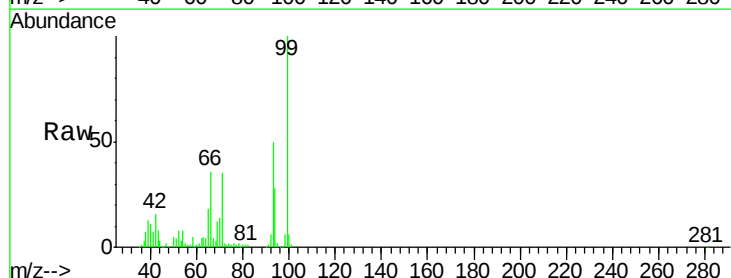
Tgt Ion: 93 Resp: 164565

Ion Ratio Lower Upper

93 100

66 70.8 29.8 44.8#

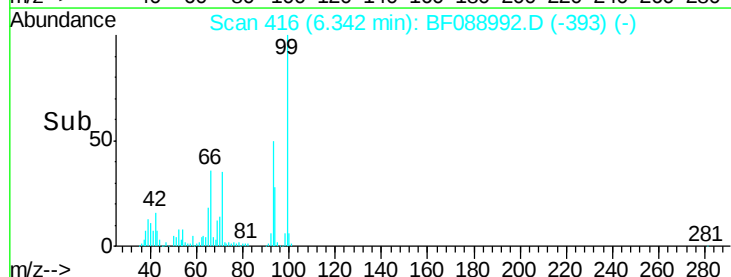
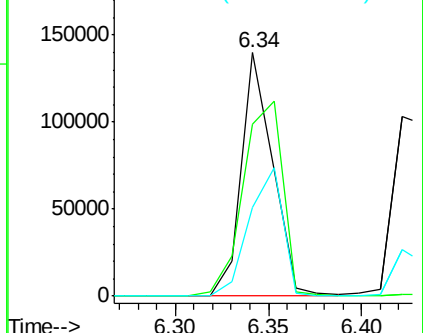
65 36.6 14.9 22.3#



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: 71.01 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

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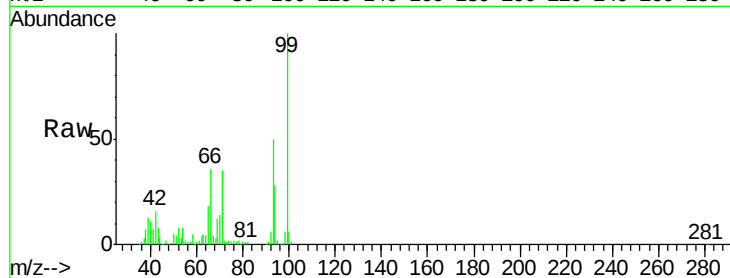
Tgt Ion: 99 Resp: 370686

Ion Ratio Lower Upper

99 100

42 15.7 12.2 18.2

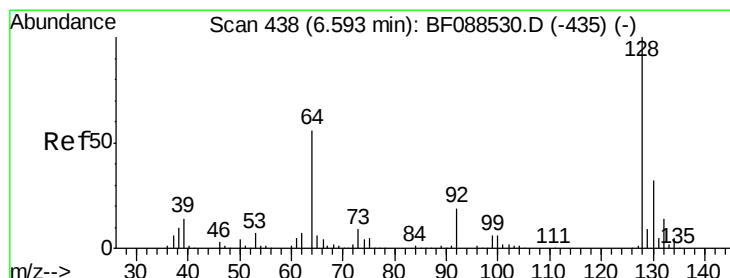
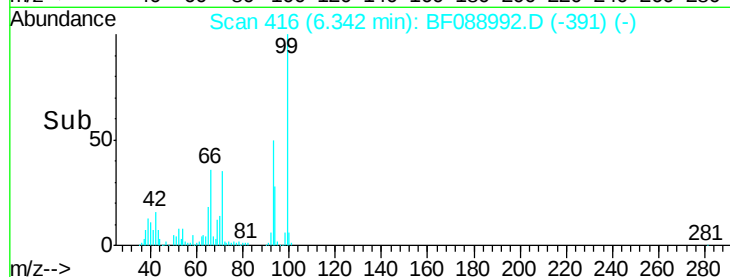
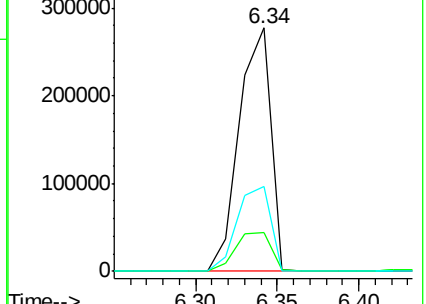
71 35.0 23.4 35.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 34.67 ng

RT: 6.47 min Scan# 427

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

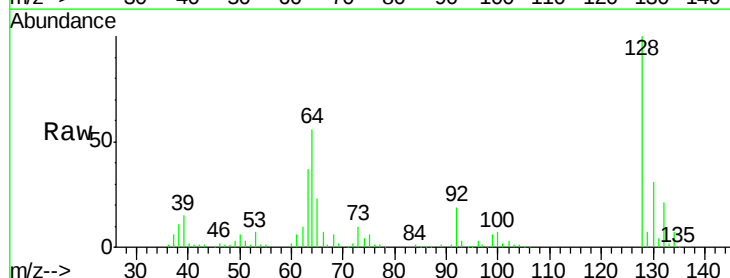
Tgt Ion: 128 Resp: 150549

Ion Ratio Lower Upper

128 100

130 31.4 12.0 52.0

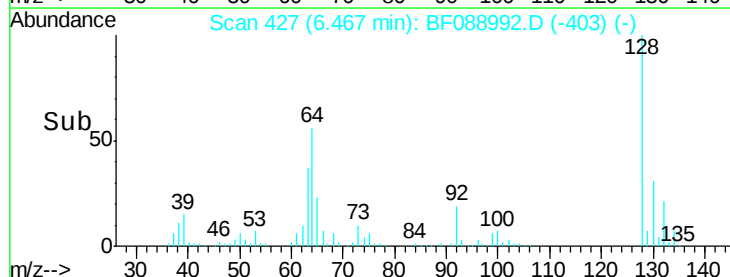
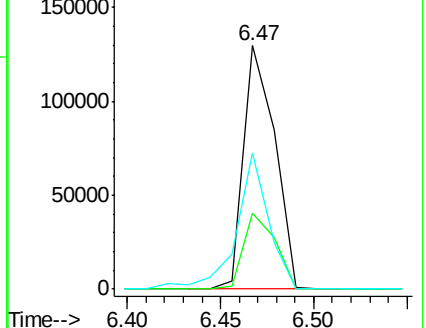
64 55.9 30.8 70.8



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: 13.01 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.02 min

Lab File: BF088992.D

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BNA\_F

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PB92031BS

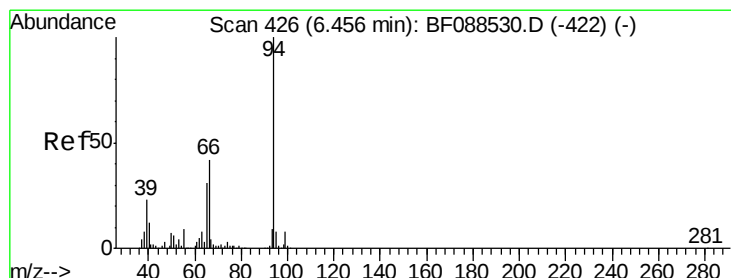
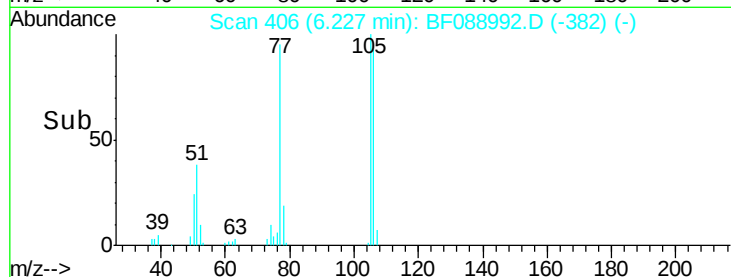
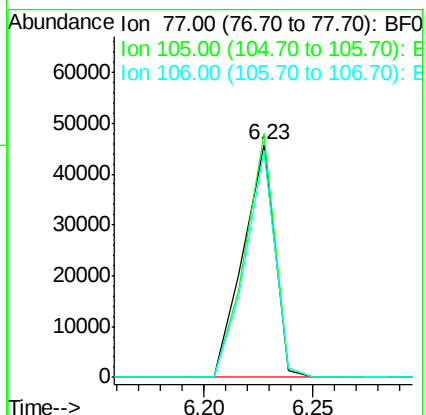
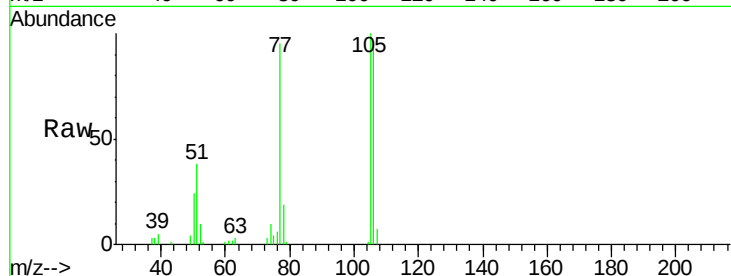
Tgt Ion: 77 Resp: 46007

Ion Ratio Lower Upper

77 100

105 104.9 90.6 130.6

106 97.5 85.3 125.3



#10

Phenol

Concen: 37.29 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.01 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

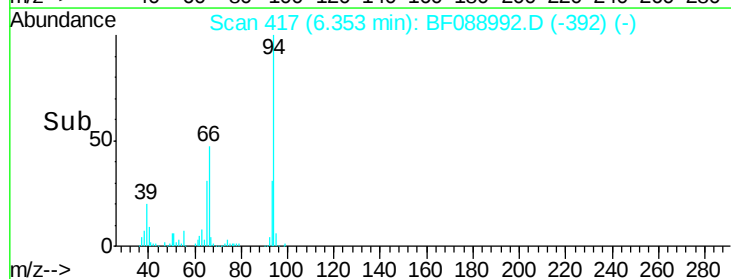
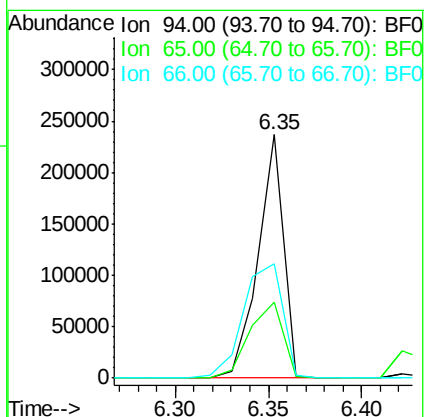
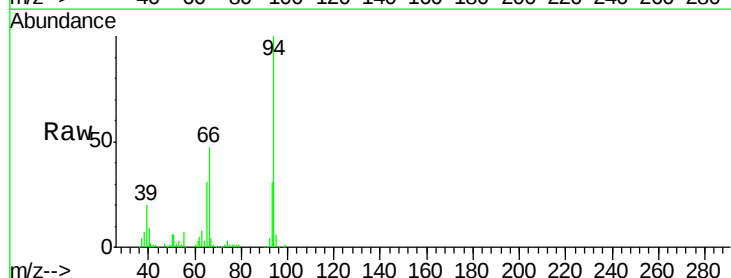
Tgt Ion: 94 Resp: 222167

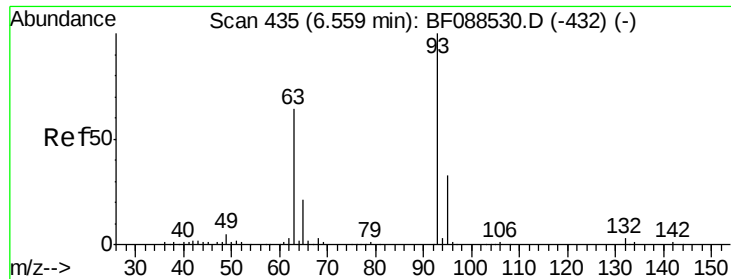
Ion Ratio Lower Upper

94 100

65 31.2 5.9 45.9

66 47.2 14.0 54.0

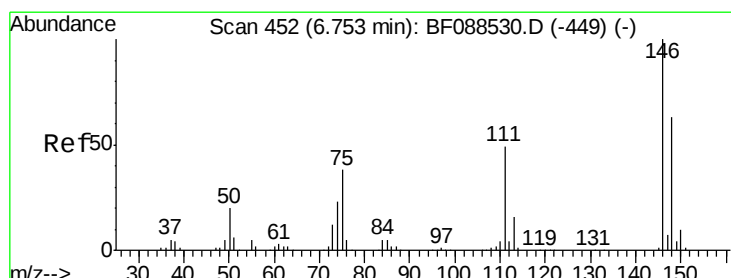
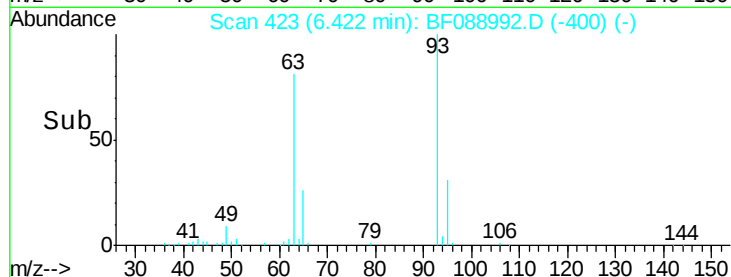
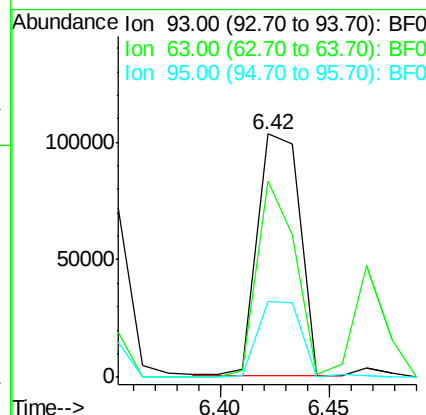
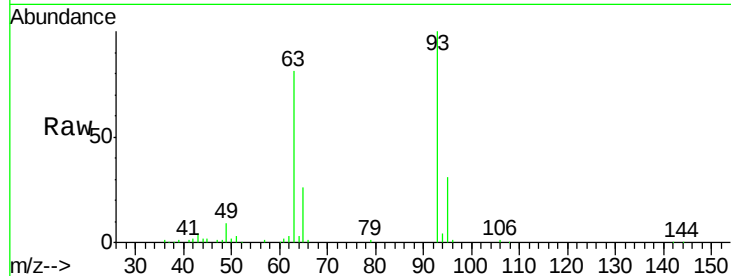




#11  
 bis(2-Chloroethyl)ether  
 Concen: 31.70 ng  
 RT: 6.42 min Scan# 423  
 Delta R.T. -0.03 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

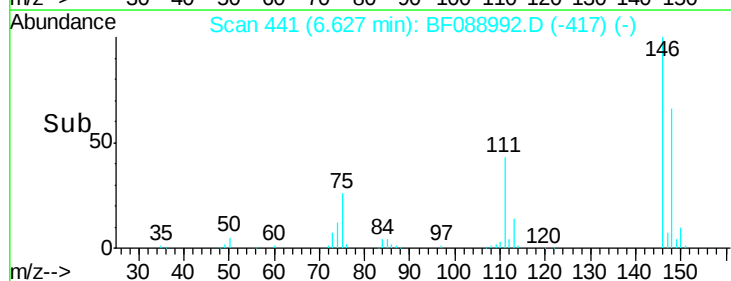
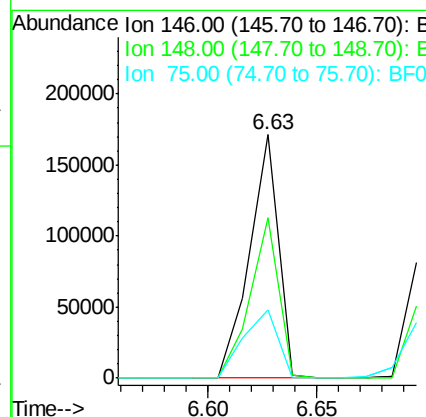
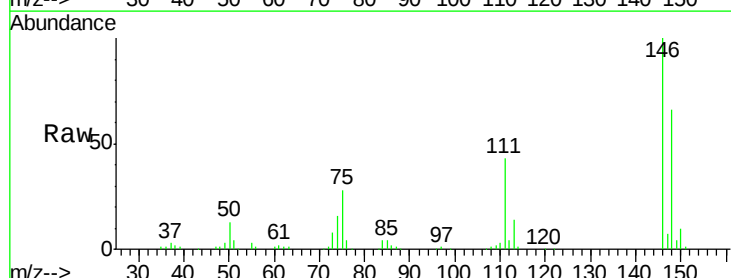
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion: 93 Resp: 140833  
 Ion Ratio Lower Upper  
 93 100  
 63 80.7 67.6 107.6  
 95 31.4 12.5 52.5



#12  
 1,3-Dichlorobenzene  
 Concen: 32.98 ng  
 RT: 6.63 min Scan# 441  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion: 146 Resp: 157583  
 Ion Ratio Lower Upper  
 146 100  
 148 65.9 50.9 76.3  
 75 27.8 25.6 38.4

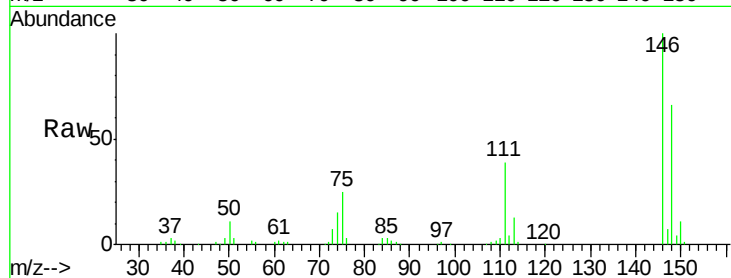




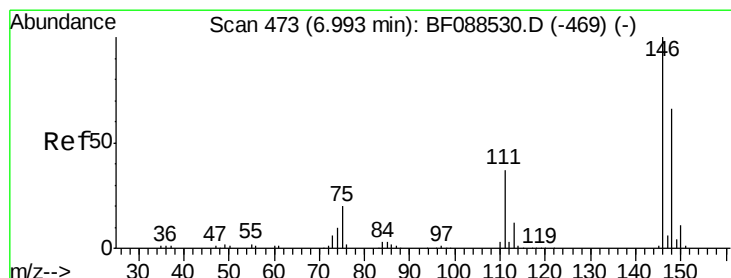
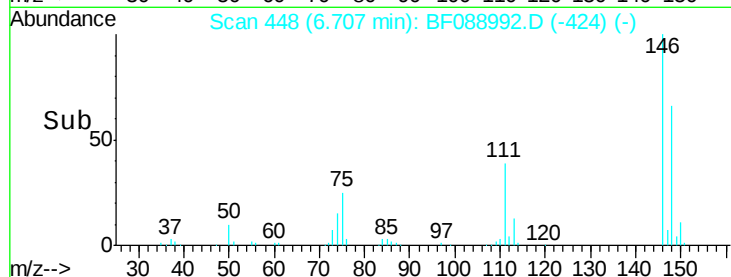
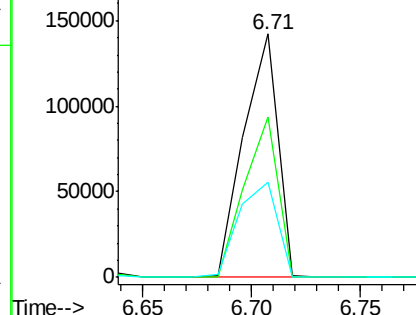
#13  
 1,4-Dichlorobenzene  
 Concen: 32.62 ng  
 RT: 6.71 min Scan# 448  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion:146 Resp: 154716  
 Ion Ratio Lower Upper  
 146 100  
 148 65.7 52.0 78.0  
 111 39.1 33.8 50.8

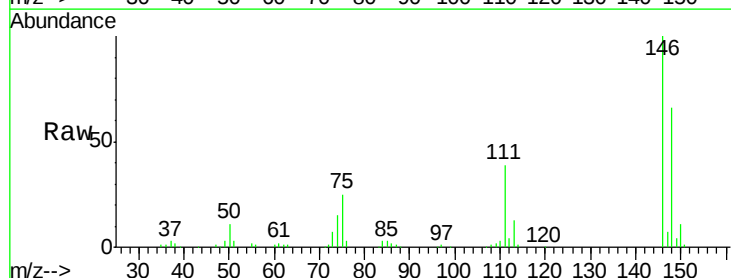


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

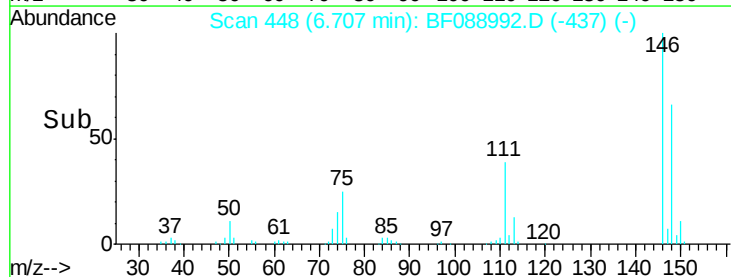
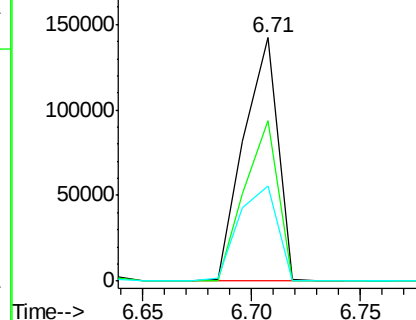


#14  
 1,2-Dichlorobenzene  
 Concen: 34.85 ng  
 RT: 6.71 min Scan# 448  
 Delta R.T. -0.17 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion:146 Resp: 154716  
 Ion Ratio Lower Upper  
 146 100  
 148 65.7 52.3 78.5  
 111 39.1 28.7 43.1



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: 37.41 ng

RT: 6.83 min Scan# 459

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

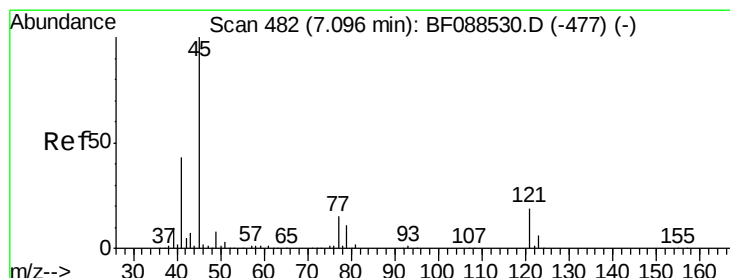
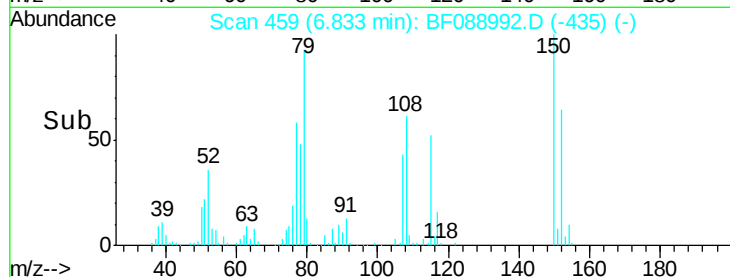
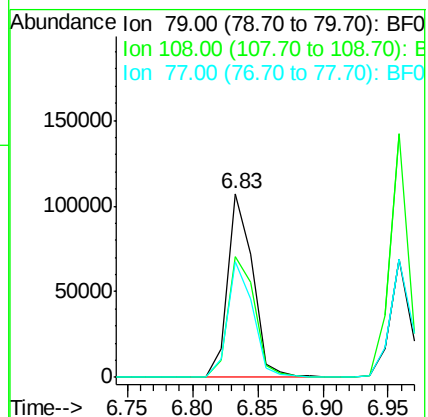
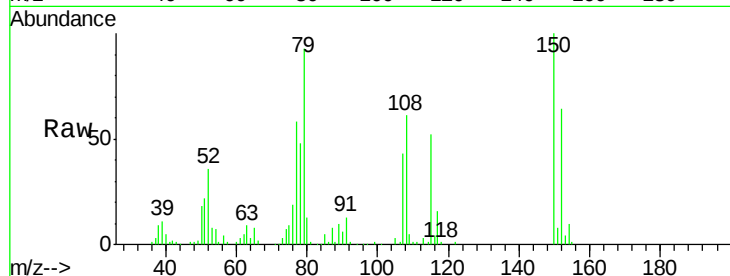
Tgt Ion: 79 Resp: 143718

Ion Ratio Lower Upper

79 100

108 66.1 65.0 97.6

77 62.8 50.3 75.5



#16

2,2'-oxybis(1-Chloropropane)

Concen: 27.96 ng

RT: 6.98 min Scan# 472

Delta R.T. -0.01 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

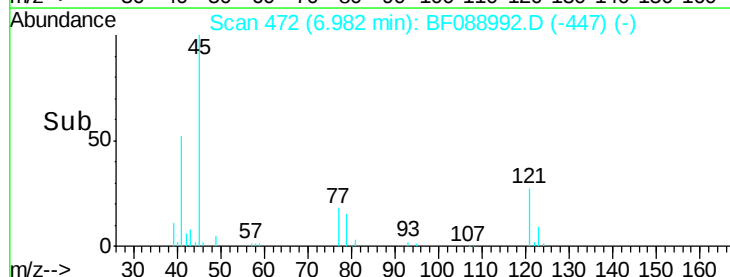
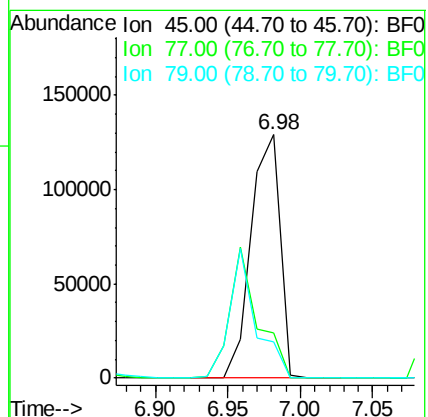
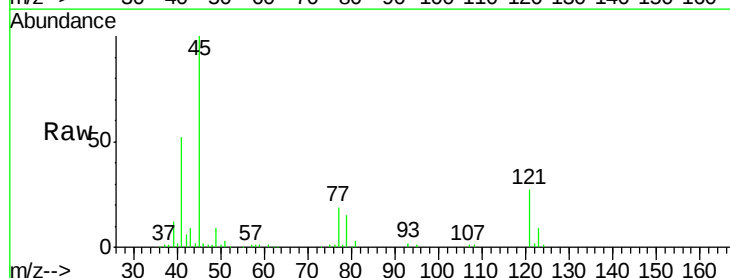
Tgt Ion: 45 Resp: 179870

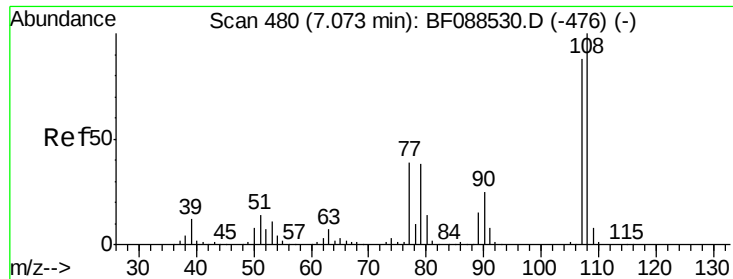
Ion Ratio Lower Upper

45 100

77 18.7 0.0 32.5

79 14.8 0.0 29.5

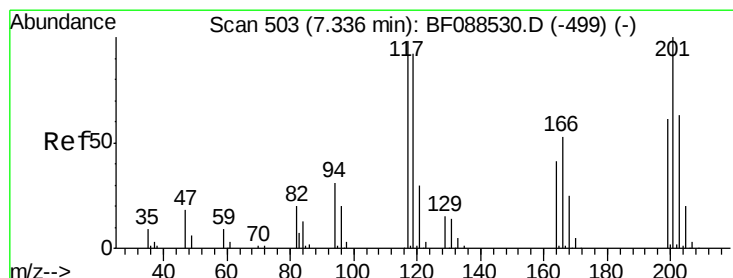
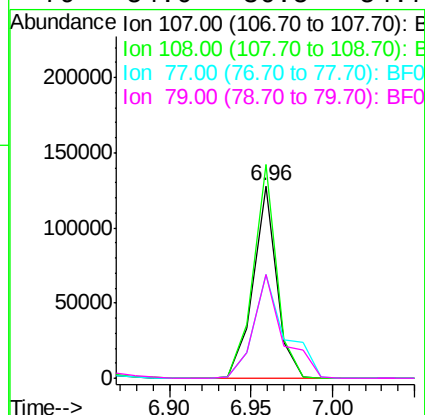
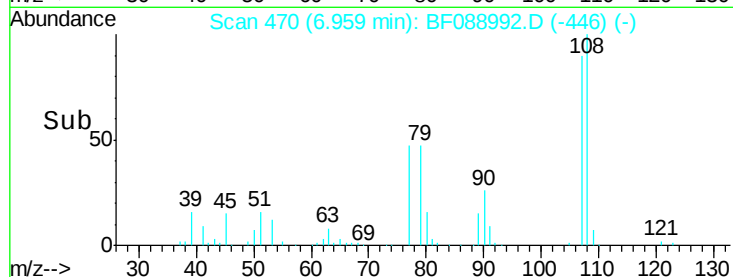
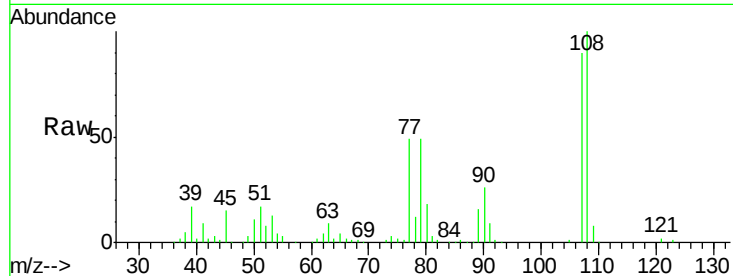




#17  
2-Methylphenol  
Concen: 36.04 ng  
RT: 6.96 min Scan# 470  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

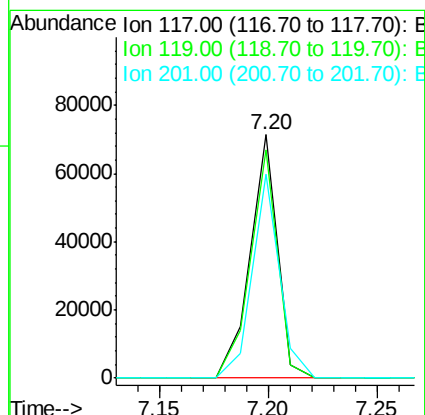
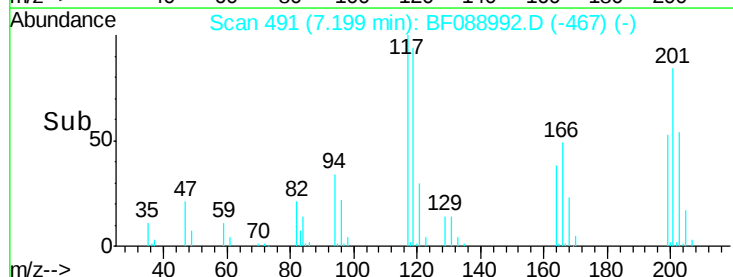
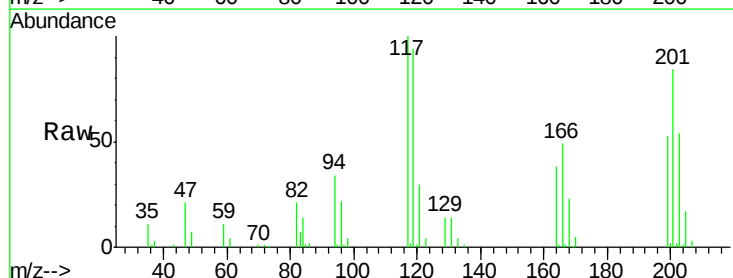
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

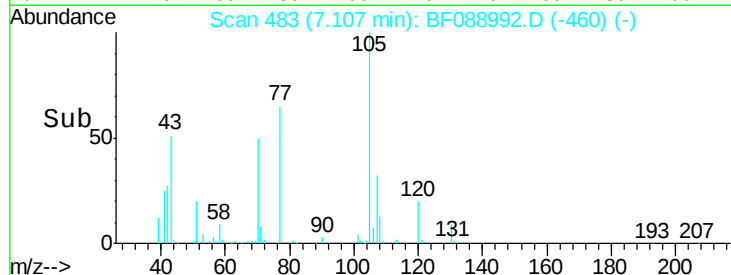
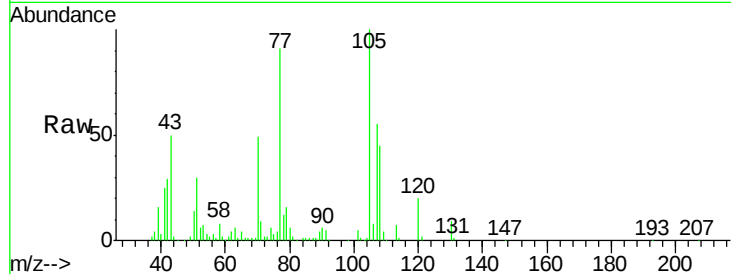
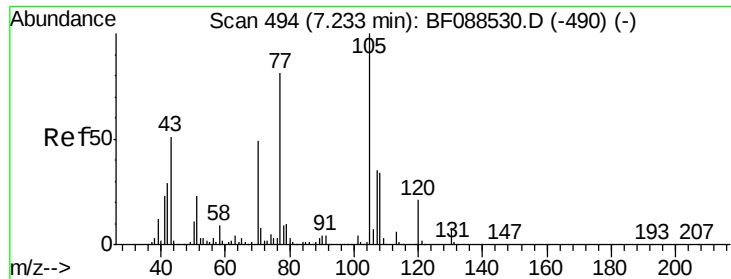
Tgt Ion:107 Resp: 127661  
Ion Ratio Lower Upper  
107 100  
108 111.2 90.9 136.3  
77 54.2 36.6 55.0  
79 54.0 36.5 54.7



#18  
Hexachloroethane  
Concen: 33.82 ng  
RT: 7.20 min Scan# 491  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion:117 Resp: 62034  
Ion Ratio Lower Upper  
117 100  
119 93.8 77.4 116.2  
201 83.7 80.4 120.6

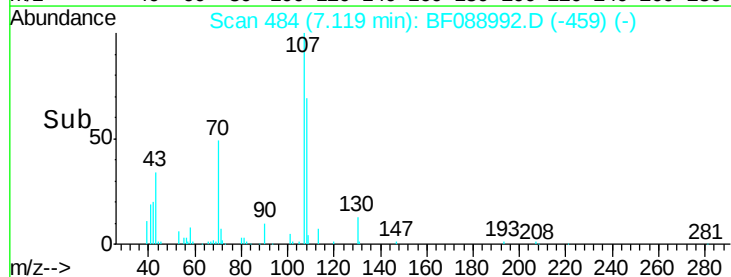
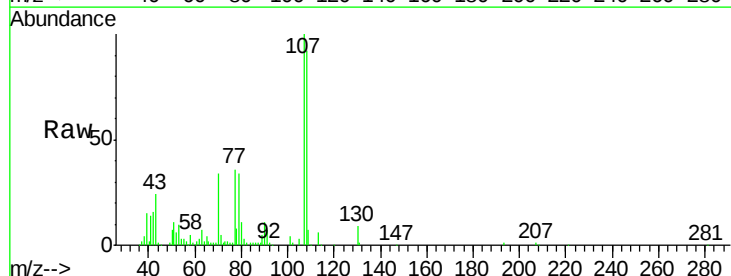
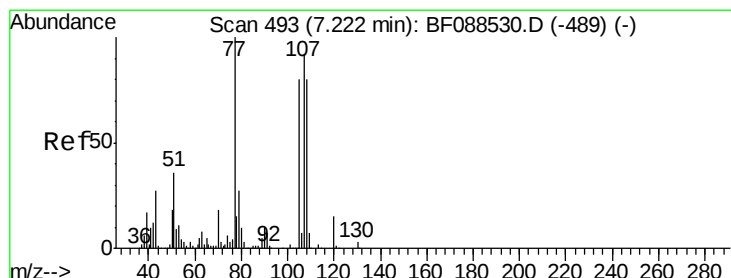
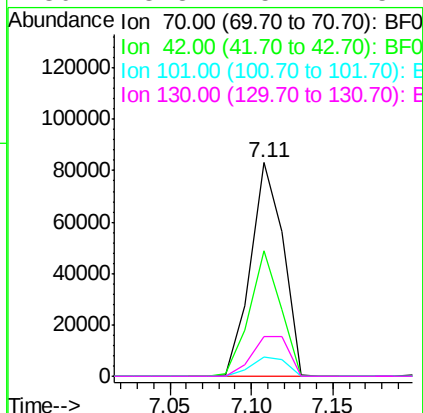




#19  
n-Nitroso-di-n-propylamine  
Concen: 32.77 ng  
RT: 7.11 min Scan# 483  
Delta R.T. -0.03 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

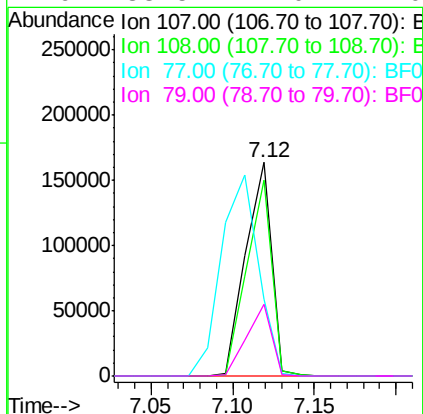
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

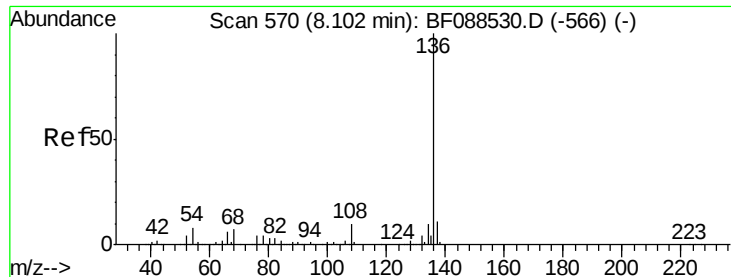
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 114915 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 58.8  | 49.6  | 74.4   |
| 101      | 9.2   | 7.1   | 10.7   |
| 130      | 18.8  | 15.4  | 23.2   |



#20  
3+4-Methylphenols  
Concen: 42.42 ng  
RT: 7.12 min Scan# 484  
Delta R.T. -0.01 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 180340 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 91.8  | 67.8  | 107.8  |
| 77       | 36.0  | 59.3  | 99.3#  |
| 79       | 33.5  | 7.0   | 47.0   |

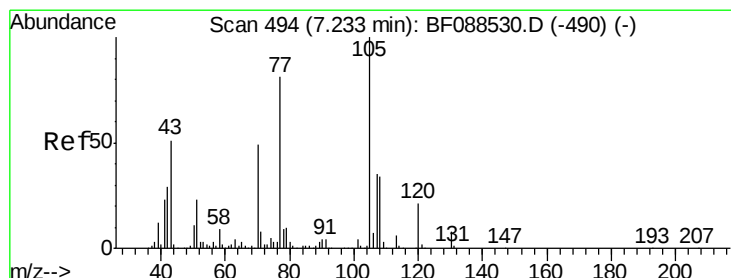
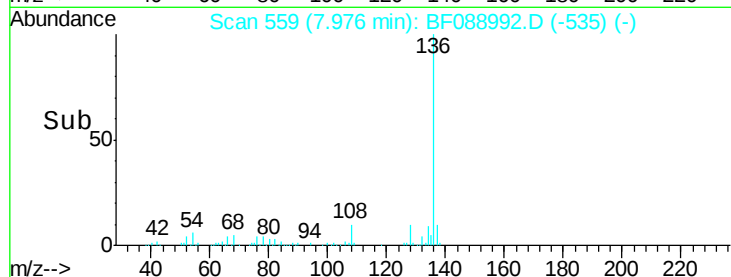
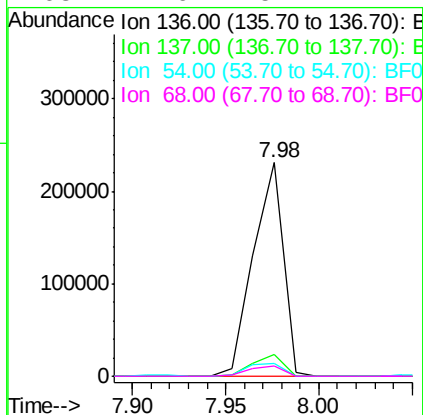
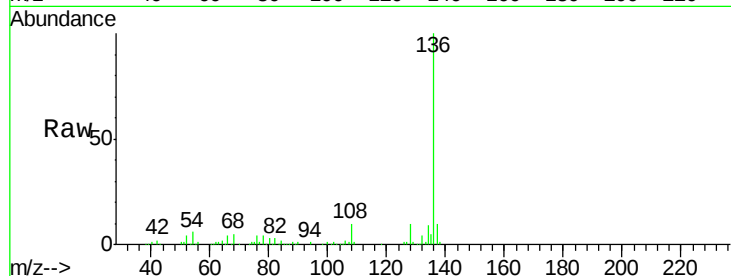




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.98 min Scan# 559  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

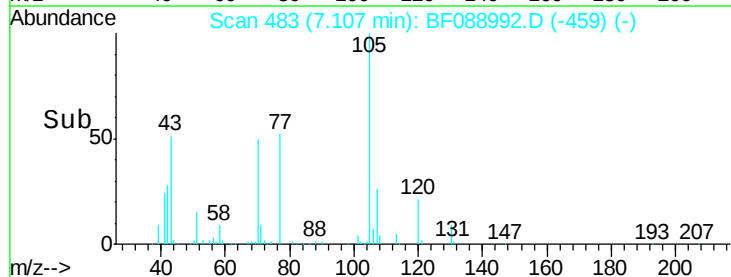
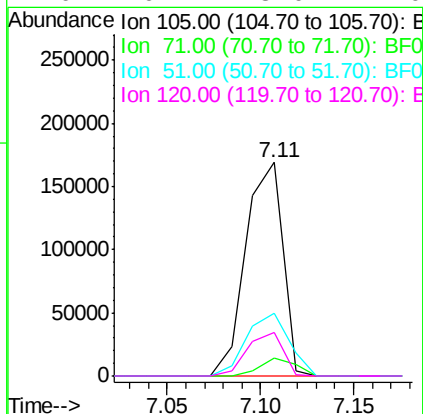
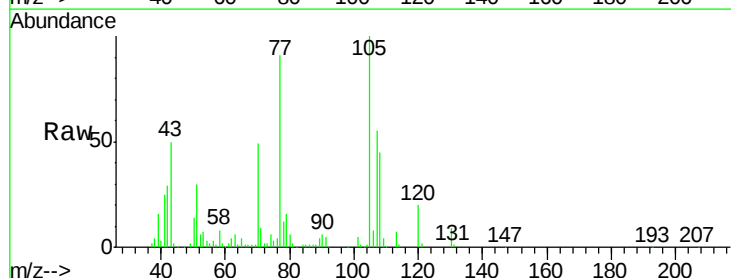
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 256652 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 9.1   | 13.7   |
| 54       | 5.8   | 6.6   | 10.0#  |
| 68       | 4.6   | 5.1   | 7.7#   |



#22  
Acetophenone  
Concen: 37.39 ng  
RT: 7.11 min Scan# 483  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 232923 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 8.6   | 5.3   | 7.9#   |
| 51       | 29.6  | 18.2  | 27.4#  |
| 120      | 20.4  | 18.0  | 27.0   |

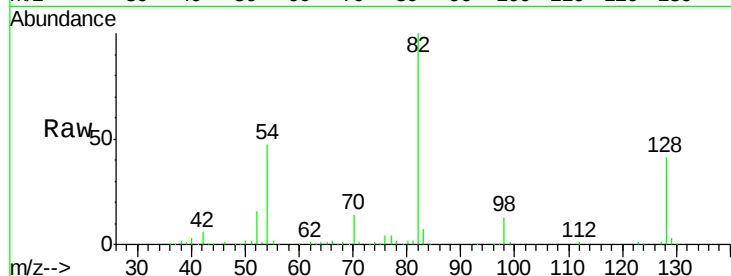




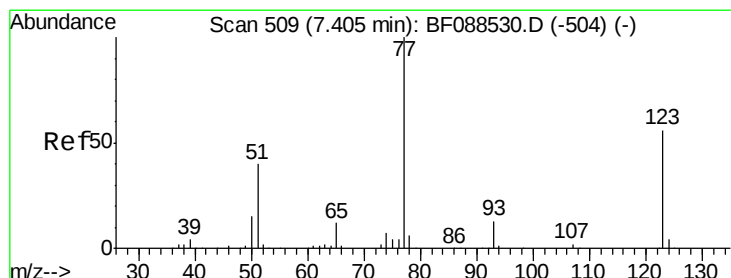
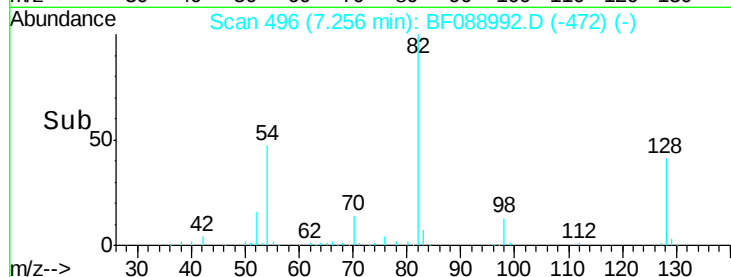
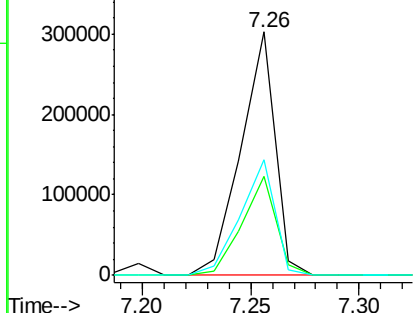
#23  
 Nitrobenzene-d5  
 Concen: 67.49 ng  
 RT: 7.26 min Scan# 496  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion: 82 Resp: 330544  
 Ion Ratio Lower Upper  
 82 100  
 128 40.7 35.9 53.9  
 54 47.4 40.9 61.3

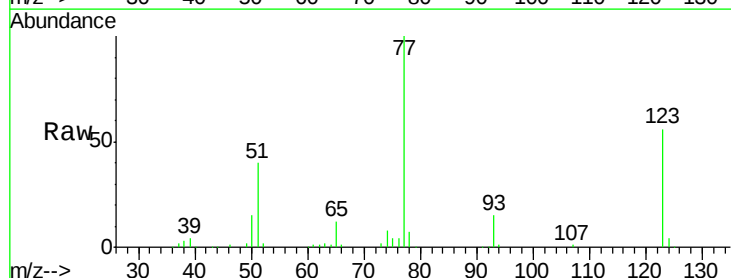


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

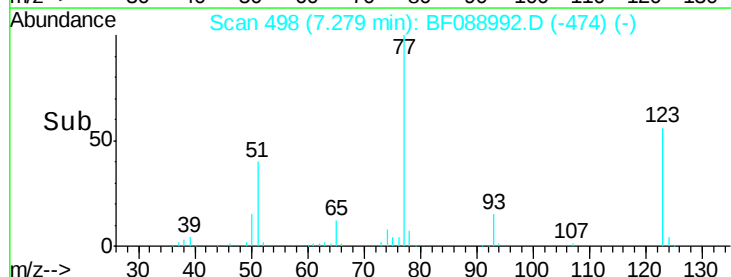
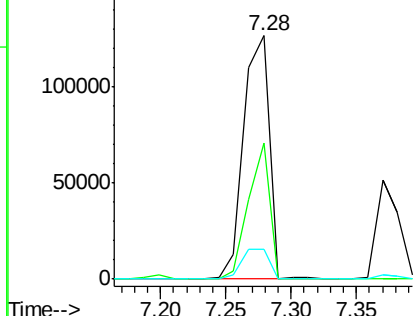


#24  
 Nitrobenzene  
 Concen: 35.01 ng  
 RT: 7.28 min Scan# 498  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion: 77 Resp: 172887  
 Ion Ratio Lower Upper  
 77 100  
 123 55.9 45.0 67.4  
 65 12.3 10.2 15.2



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





#25

Isophorone

Concen: 35.49 ng

RT: 7.52 min Scan# 519

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

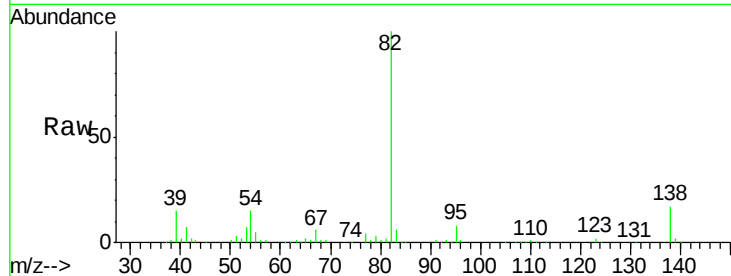
Tgt Ion: 82 Resp: 322003

Ion Ratio Lower Upper

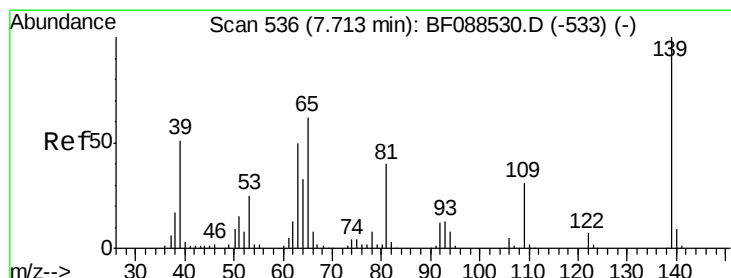
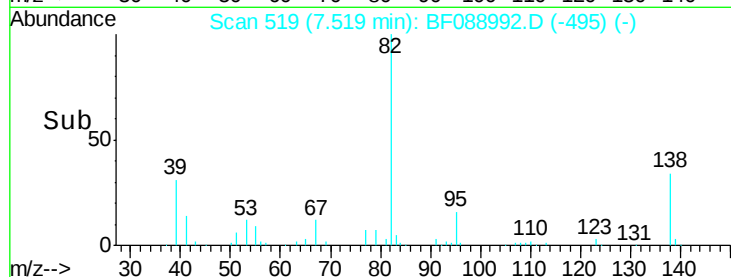
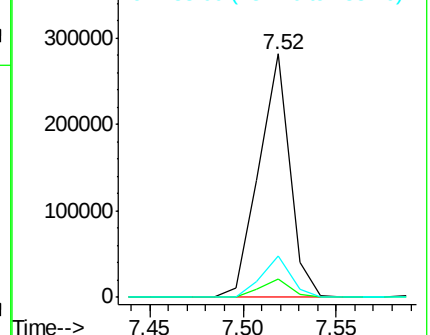
82 100

95 7.8 5.4 8.2

138 17.0 14.6 21.8



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



#26

2-Nitrophenol

Concen: 38.08 ng

RT: 7.59 min Scan# 525

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

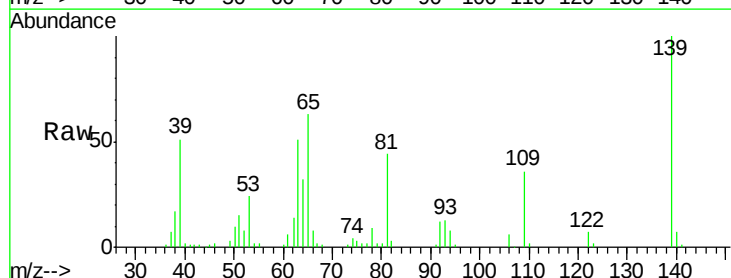
Tgt Ion: 139 Resp: 77114

Ion Ratio Lower Upper

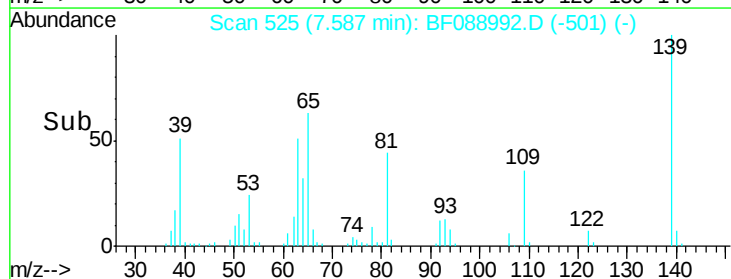
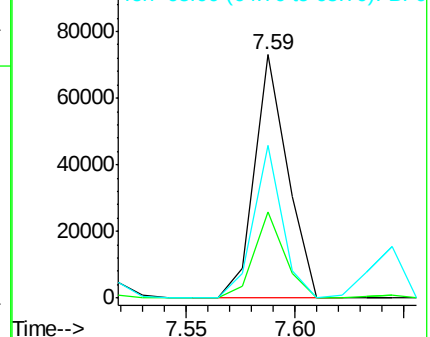
139 100

109 35.5 23.0 34.4#

65 62.9 45.8 68.8



Abundance Ion 139.00 (138.70 to 139.70): BF0  
Ion 109.00 (108.70 to 109.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0





#27

2,4-Dimethylphenol

Concen: 37.88 ng

RT: 7.64 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

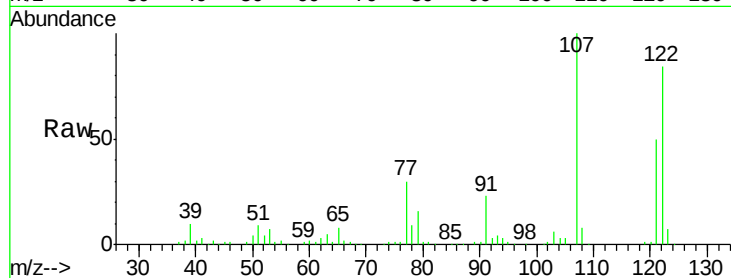
Tgt Ion: 122 Resp: 159738

Ion Ratio Lower Upper

122 100

107 118.9 82.4 123.6

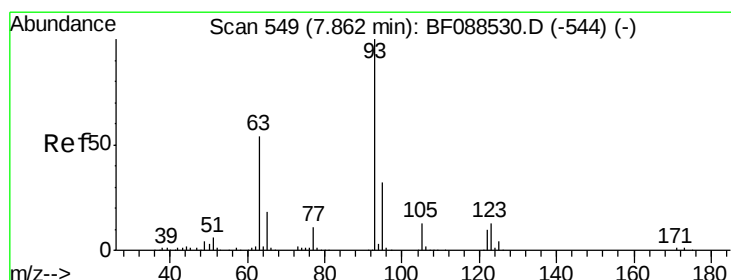
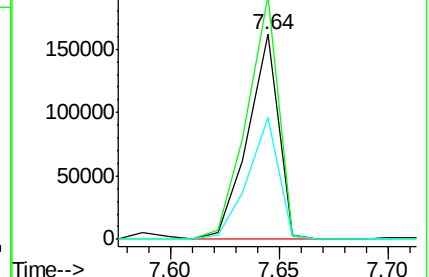
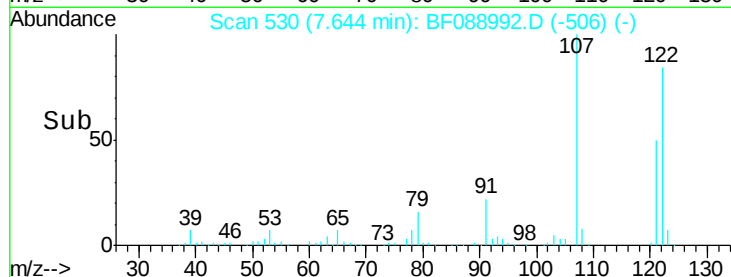
121 59.8 46.3 69.5



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: 36.74 ng

RT: 7.74 min Scan# 538

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

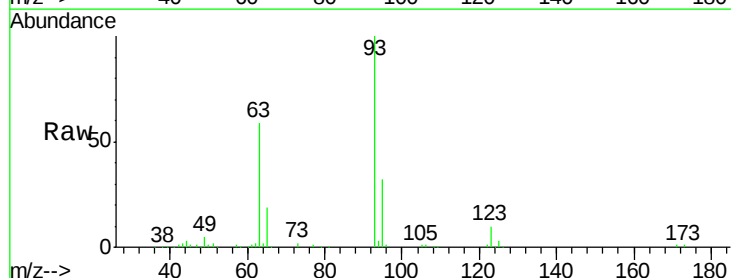
Tgt Ion: 93 Resp: 216927

Ion Ratio Lower Upper

93 100

95 32.3 26.5 39.7

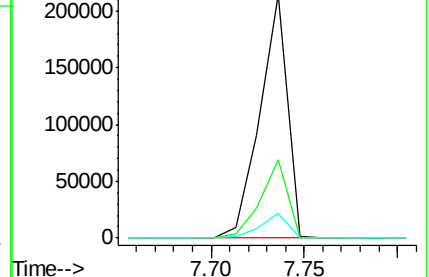
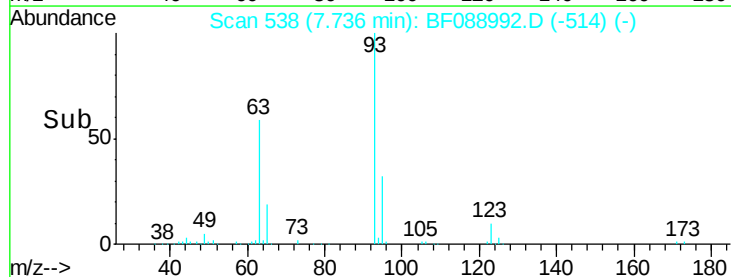
123 10.4 11.6 17.4#



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

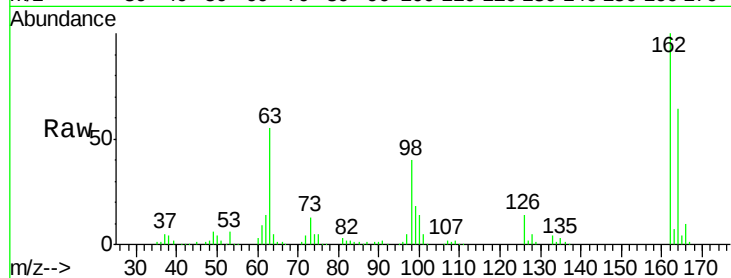




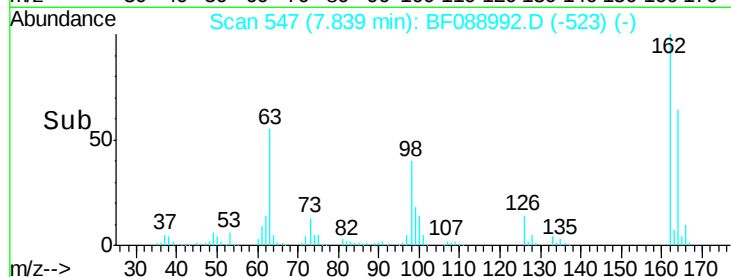
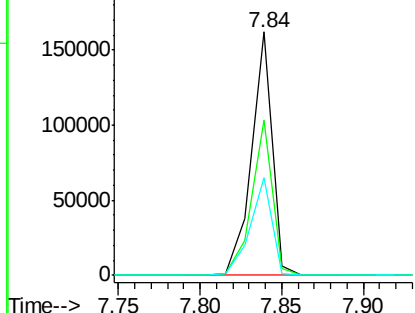
#29  
 2,4-Dichlorophenol  
 Concen: 41.84 ng  
 RT: 7.84 min Scan# 547  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion:162 Resp: 142596  
 Ion Ratio Lower Upper  
 162 100  
 164 63.7 43.8 83.8  
 98 40.1 21.3 61.3

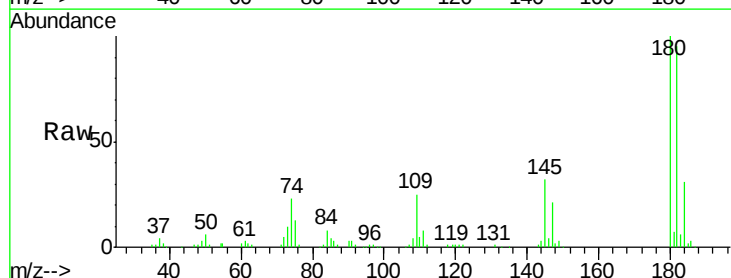


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 164.00 (163.70 to 164.70): E  
 Ion 98.00 (97.70 to 98.70): B

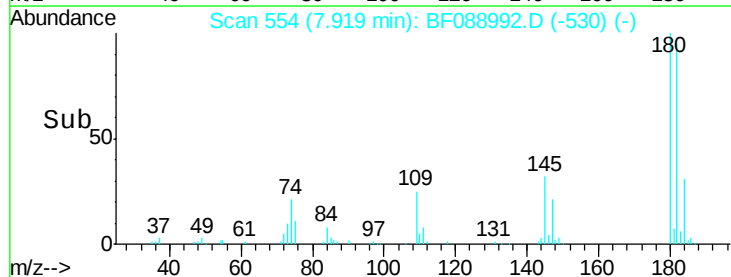
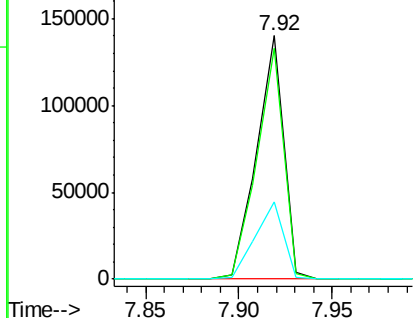


#30  
 1,2,4-Trichlorobenzene  
 Concen: 37.51 ng  
 RT: 7.92 min Scan# 554  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion:180 Resp: 140307  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 76.0 114.0  
 145 31.5 26.5 39.7



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

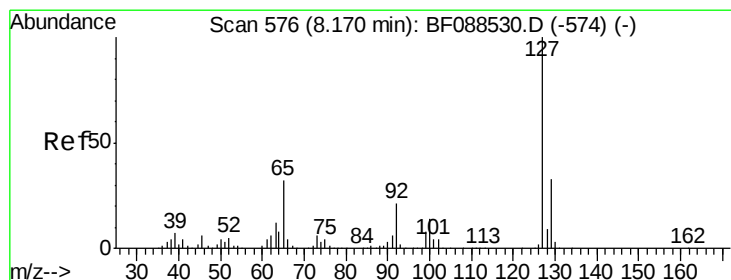
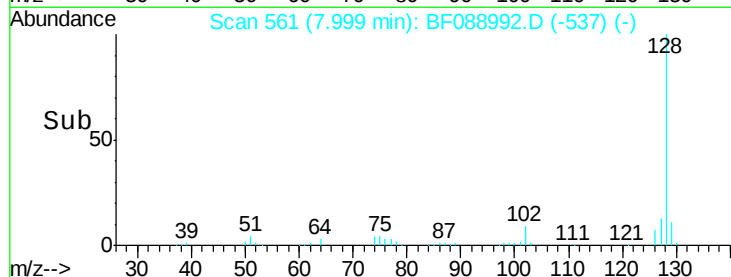
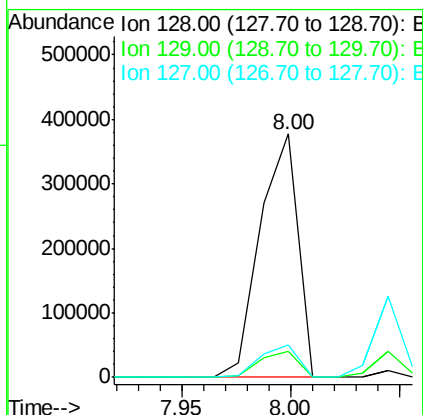
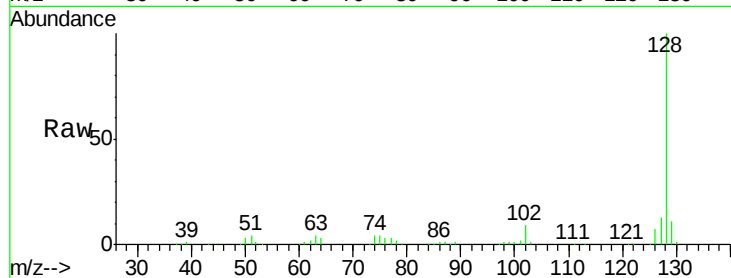




#31  
Naphthalene  
Concen: 36.46 ng  
RT: 8.00 min Scan# 561  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

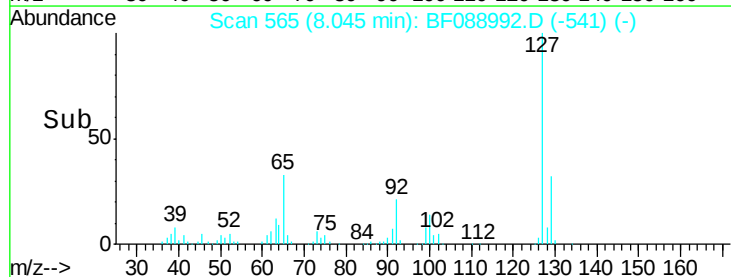
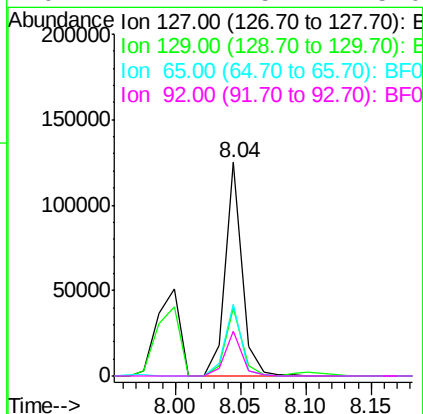
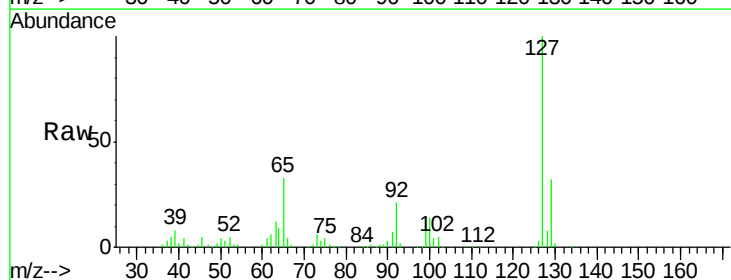
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

Tgt Ion:128 Resp: 461273  
Ion Ratio Lower Upper  
128 100  
129 10.7 9.4 14.2  
127 13.5 10.9 16.3



#33  
4-Chloroaniline  
Concen: 20.04 ng  
RT: 8.04 min Scan# 565  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion:127 Resp: 112790  
Ion Ratio Lower Upper  
127 100  
129 32.0 26.3 39.5  
65 33.5 24.7 37.1  
92 21.2 15.4 23.0

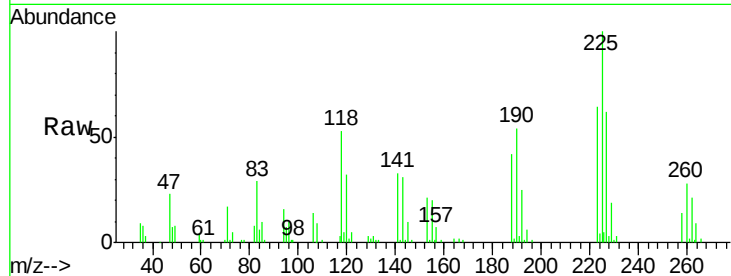




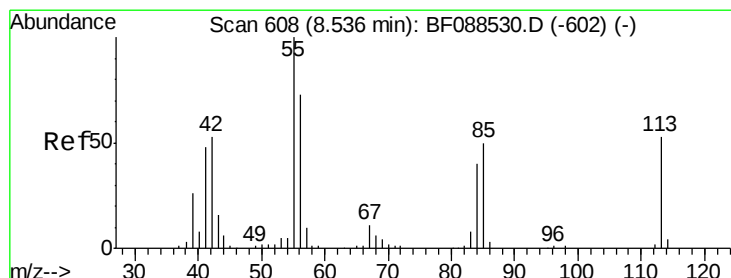
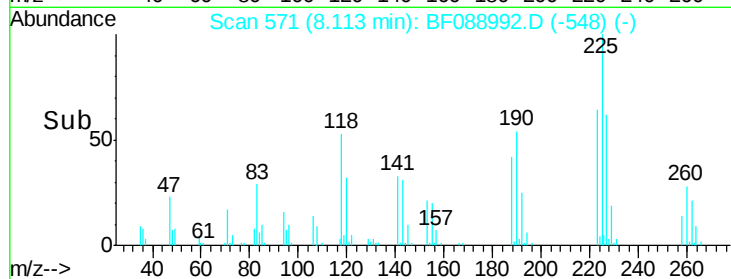
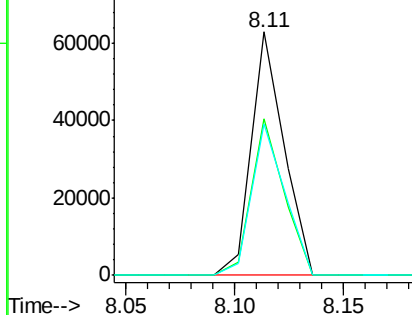
#34  
Hexachlorobutadiene  
Concen: 32.80 ng  
RT: 8.11 min Scan# 571  
Delta R.T. -0.03 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

Tgt Ion:225 Resp: 65701  
Ion Ratio Lower Upper  
225 100  
223 64.1 50.9 76.3  
227 62.2 51.9 77.9

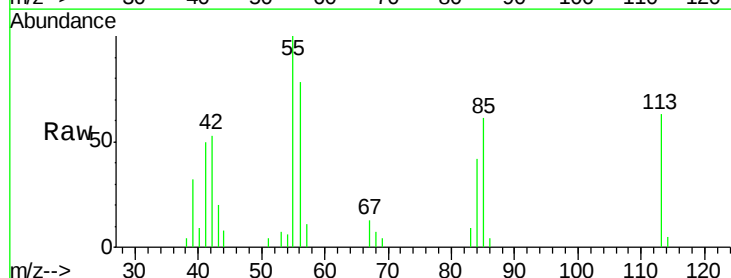


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

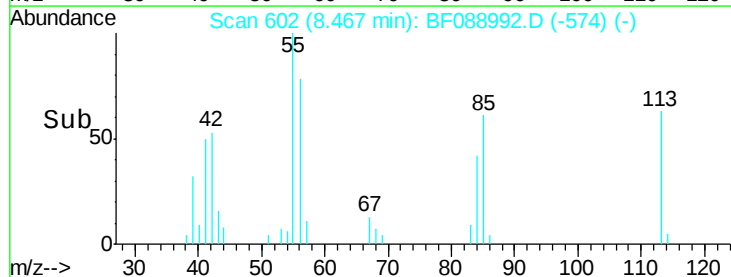
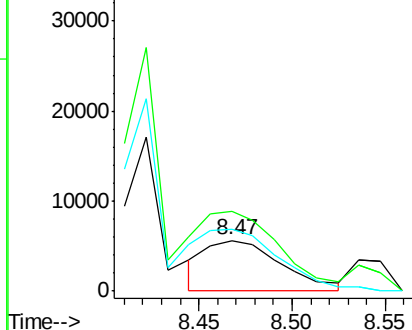


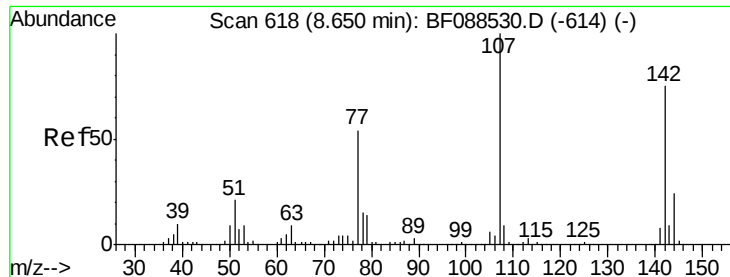
#35  
Caprolactam  
Concen: 13.88 ng  
RT: 8.47 min Scan# 602  
Delta R.T. 0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion:113 Resp: 16072  
Ion Ratio Lower Upper  
113 100  
55 159.0 158.6 198.6  
56 123.9 110.6 150.6



Abundance Ion 113.00 (112.70 to 113.70): E  
Ion 55.00 (54.70 to 55.70): BF0  
Ion 56.00 (55.70 to 56.70): BF0

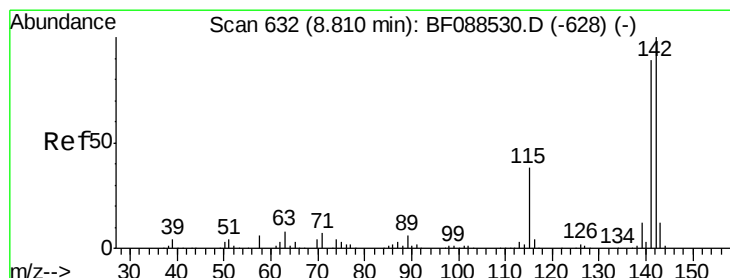
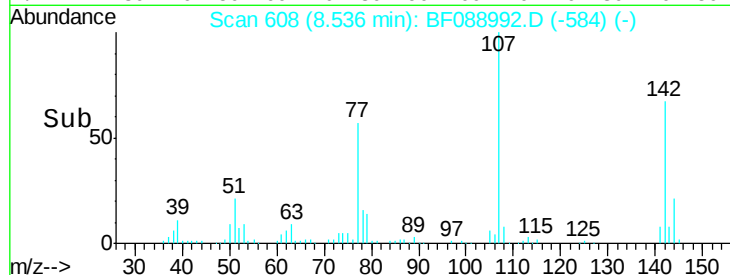
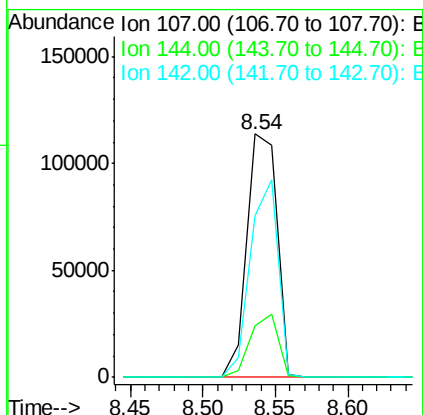
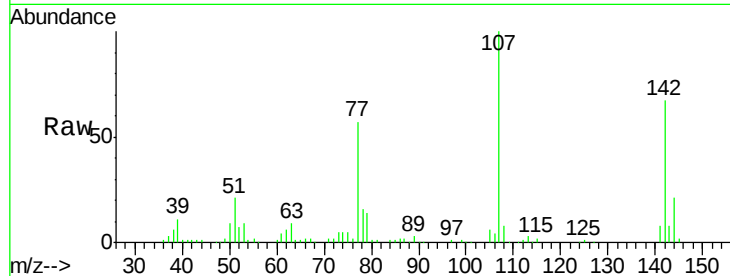




#36  
 4-Chloro-3-methylphenol  
 Concen: 40.79 ng  
 RT: 8.54 min Scan# 608  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

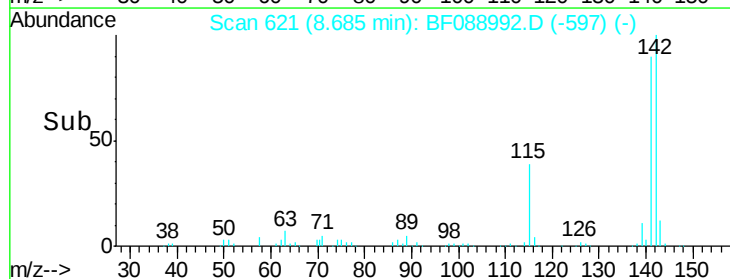
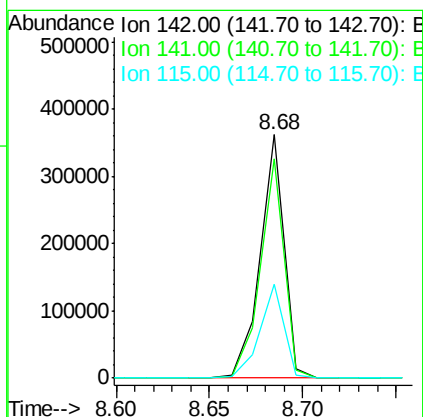
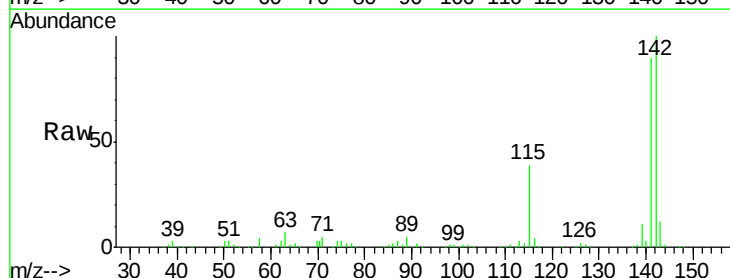
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

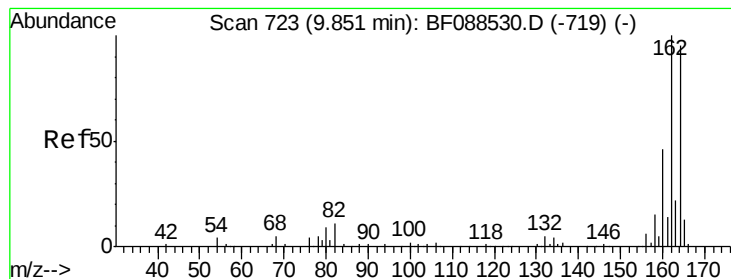
Tgt Ion:107 Resp: 164407  
 Ion Ratio Lower Upper  
 107 100  
 144 21.4 20.8 31.2  
 142 66.5 63.4 95.2



#37  
 2-Methylnaphthalene  
 Concen: 38.99 ng  
 RT: 8.68 min Scan# 621  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion:142 Resp: 317622  
 Ion Ratio Lower Upper  
 142 100  
 141 90.1 71.0 106.6  
 115 38.7 22.6 33.8#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 712

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

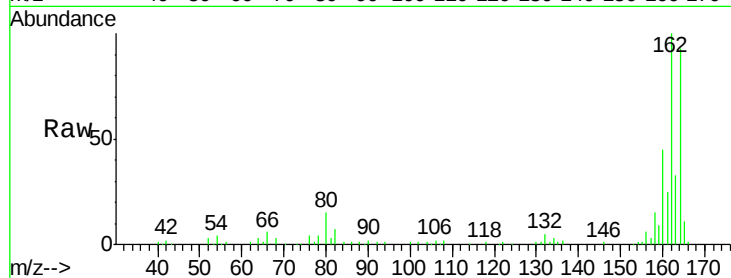
Tgt Ion:164 Resp: 123600

Ion Ratio Lower Upper

164 100

162 107.9 85.4 128.2

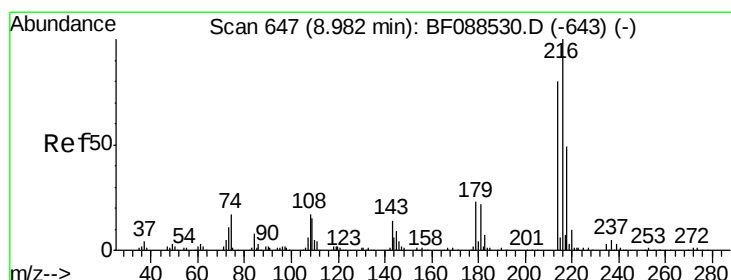
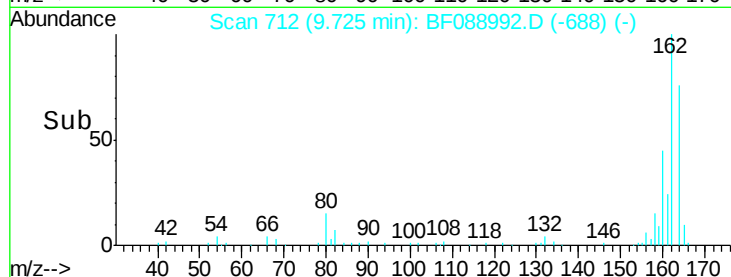
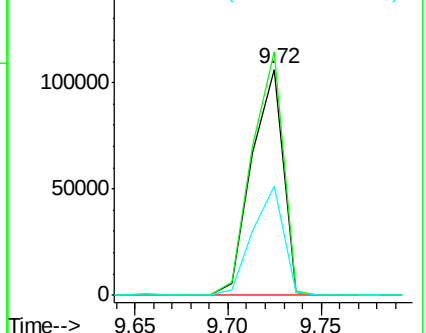
160 48.1 39.5 59.3



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: 34.06 ng

RT: 8.86 min Scan# 636

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Tgt Ion:216 Resp: 140004

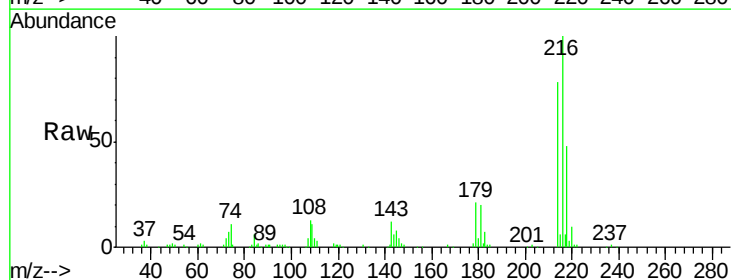
Ion Ratio Lower Upper

216 100

214 79.1 2.9 4.3#

179 22.6 0.0 0.0#

108 21.5 0.5 0.7#

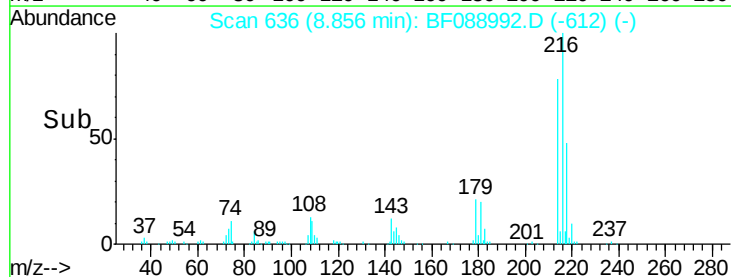
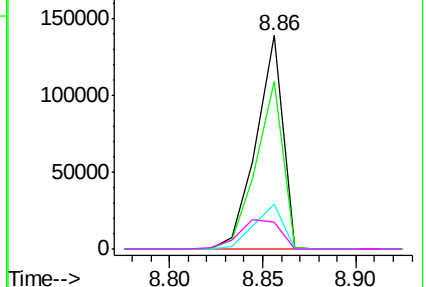


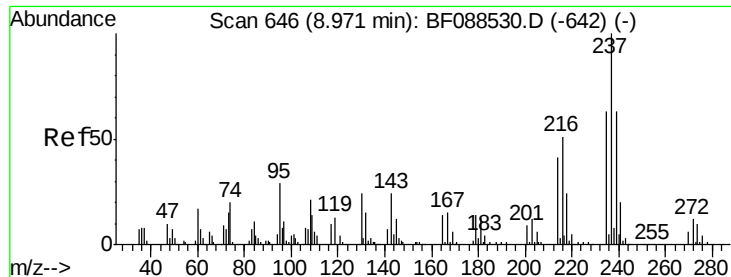
Abundance Ion 216.00 (215.70 to 216.70): E

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: 63.70 ng

RT: 8.84 min Scan# 635

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

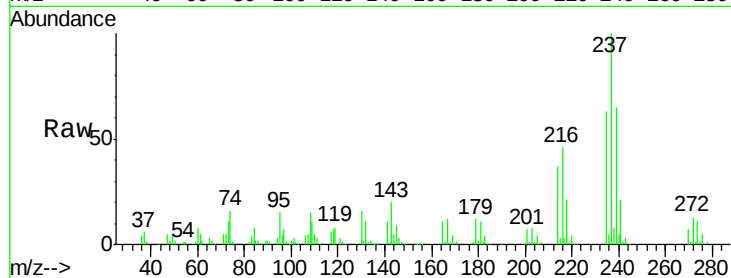
Tgt Ion:237 Resp: 128529

Ion Ratio Lower Upper

237 100

235 63.5 43.4 83.4

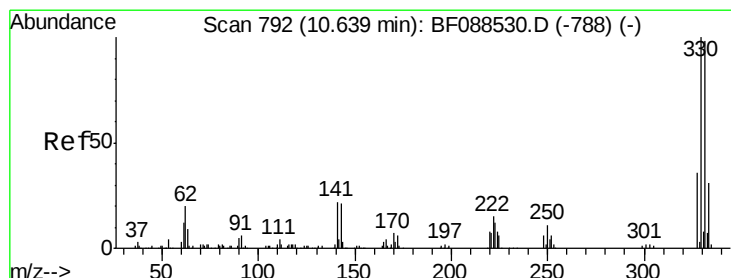
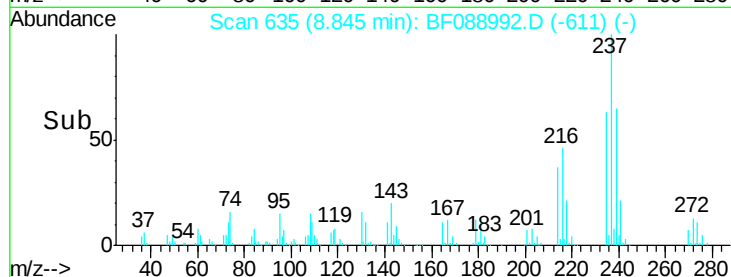
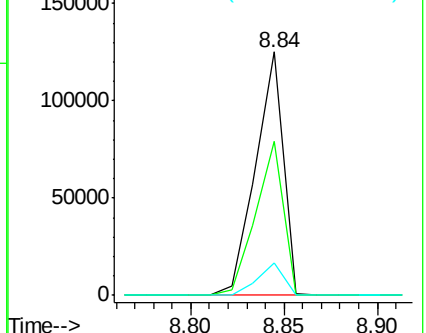
272 13.1 0.0 32.3



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: 63.12 ng

RT: 10.51 min Scan# 781

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

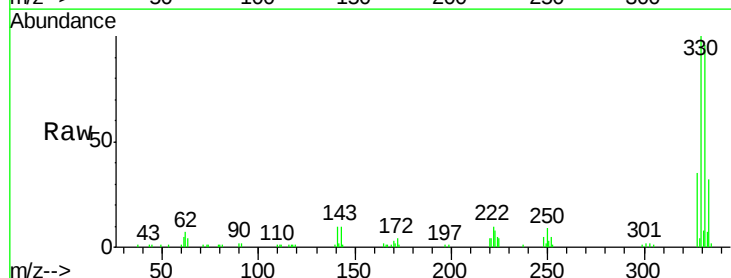
Tgt Ion:330 Resp: 72442

Ion Ratio Lower Upper

330 100

332 97.1 0.0 0.0#

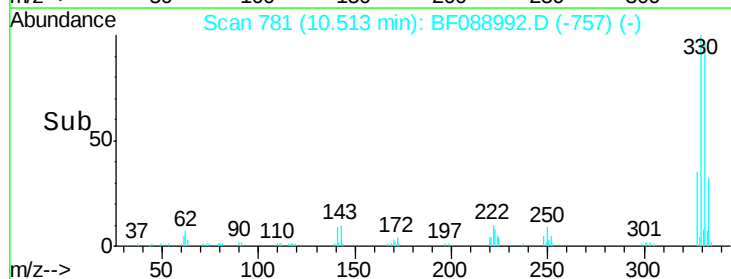
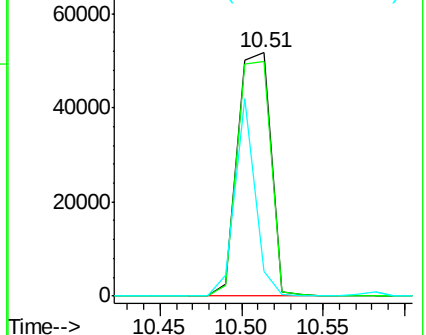
141 49.1 0.0 0.0#

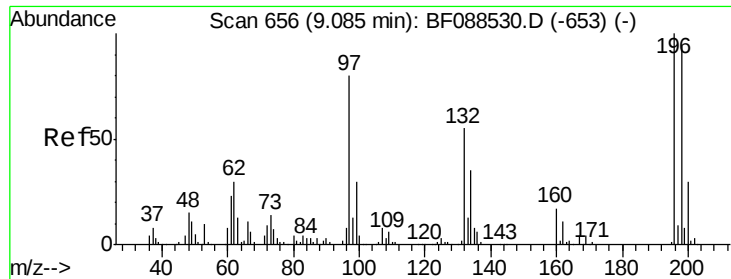


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

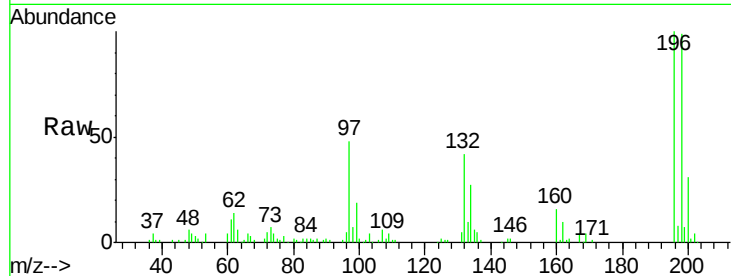




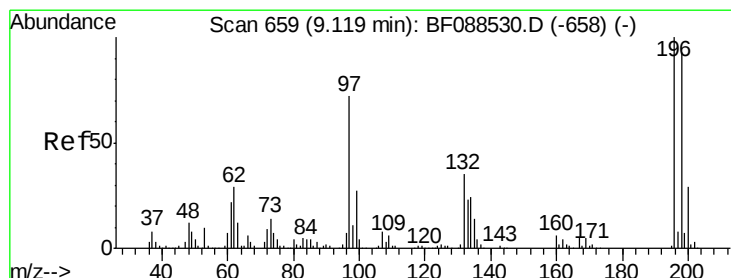
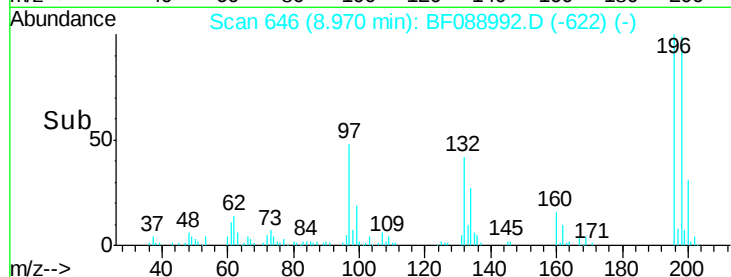
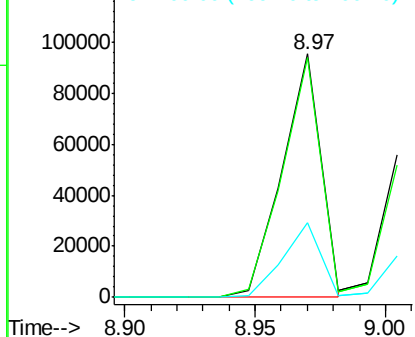
#42  
 2,4,6-Trichlorophenol  
 Concen: 36.31 ng  
 RT: 8.97 min Scan# 646  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion:196 Resp: 98422  
 Ion Ratio Lower Upper  
 196 100  
 198 98.5 78.0 117.0  
 200 30.5 25.4 38.2



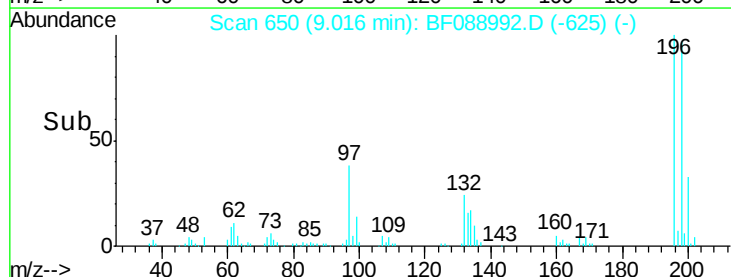
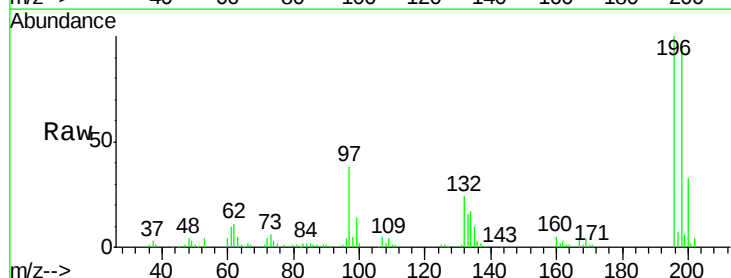
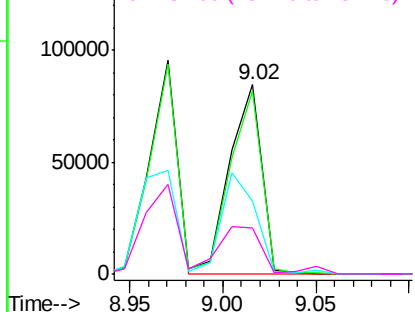
Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

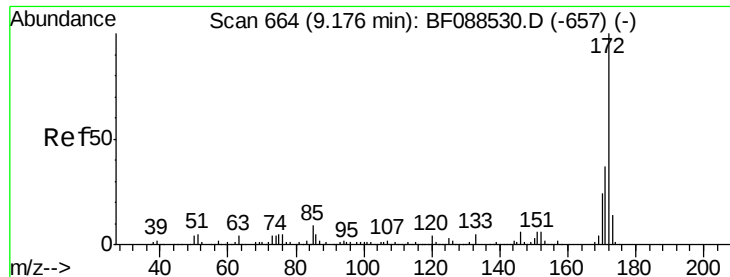


#43  
 2,4,5-Trichlorophenol  
 Concen: 43.61 ng  
 RT: 9.02 min Scan# 650  
 Delta R.T. -0.01 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion:196 Resp: 101710  
 Ion Ratio Lower Upper  
 196 100  
 198 96.5 77.5 116.3  
 97 38.4 32.0 48.0  
 132 24.3 20.9 31.3

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: 76.20 ng

RT: 9.05 min Scan# 653

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

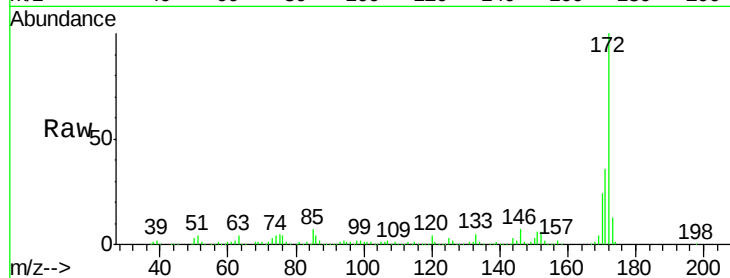
Tgt Ion:172 Resp: 596264

Ion Ratio Lower Upper

172 100

171 36.5 28.6 43.0

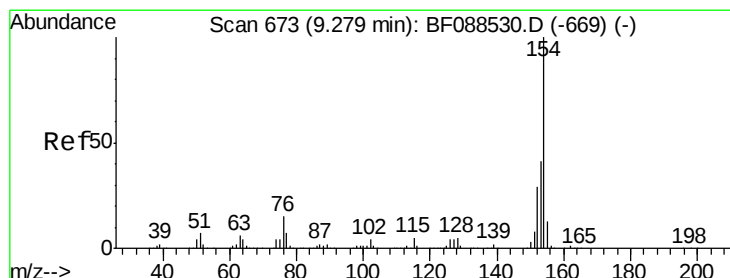
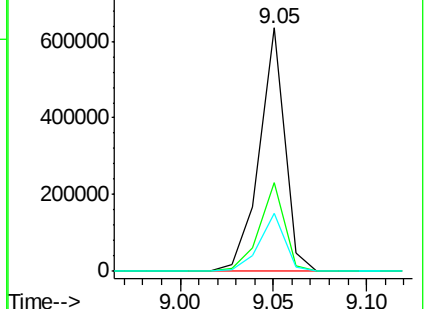
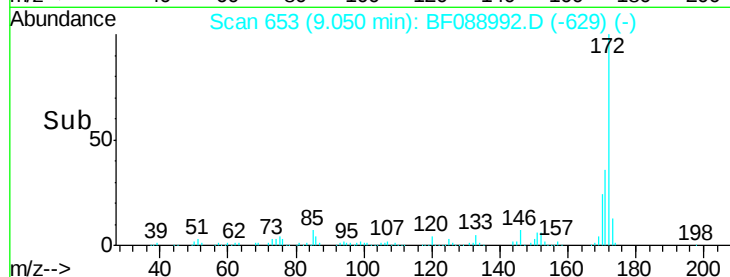
170 24.0 19.2 28.8



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: 39.03 ng

RT: 9.15 min Scan# 662

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

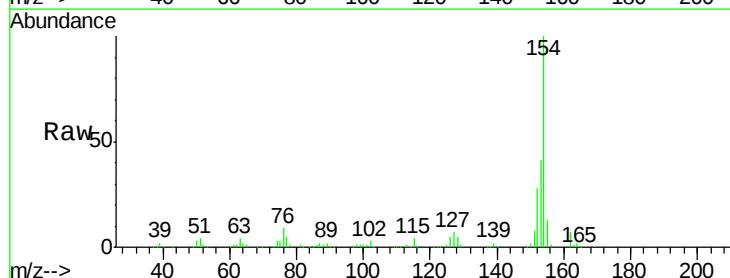
Tgt Ion:154 Resp: 399444

Ion Ratio Lower Upper

154 100

153 41.2 20.6 60.6

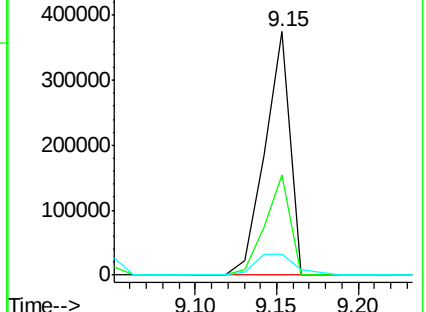
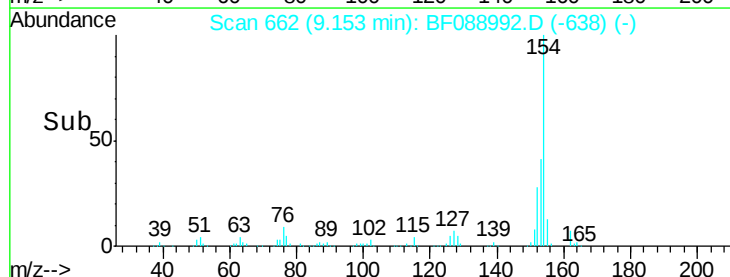
76 8.8 0.0 35.1

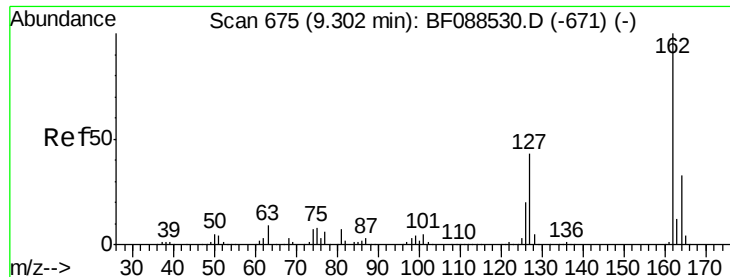


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0

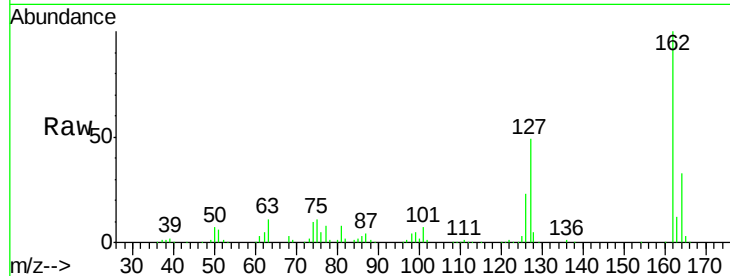




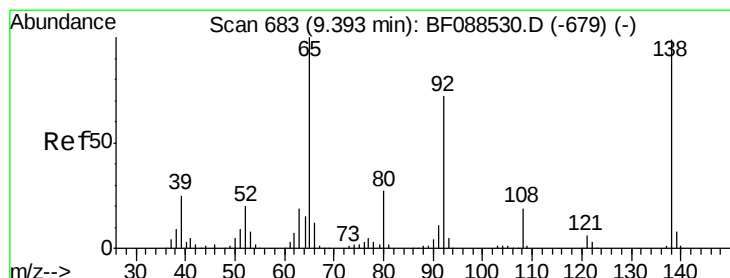
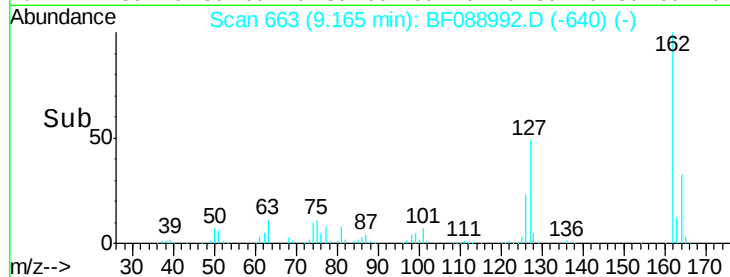
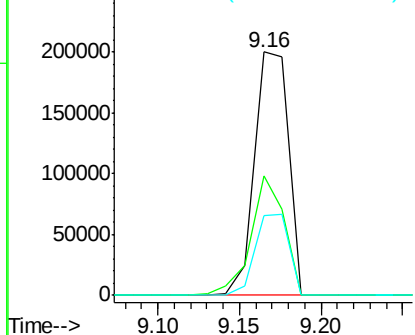
#46  
 2-Chloronaphthalene  
 Concen: 36.03 ng  
 RT: 9.16 min Scan# 663  
 Delta R.T. -0.03 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion: 162 Resp: 289512  
 Ion Ratio Lower Upper  
 162 100  
 127 49.0 35.2 52.8  
 164 32.6 26.6 39.8

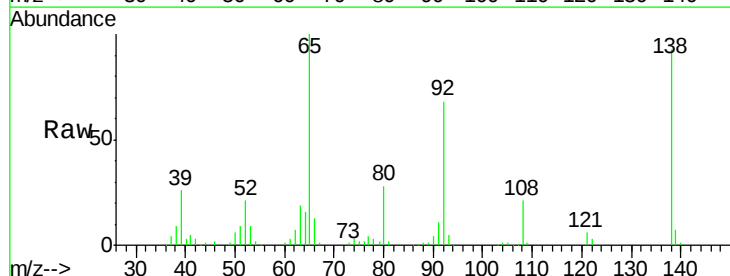


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 127.00 (126.70 to 127.70): E  
 Ion 164.00 (163.70 to 164.70): E

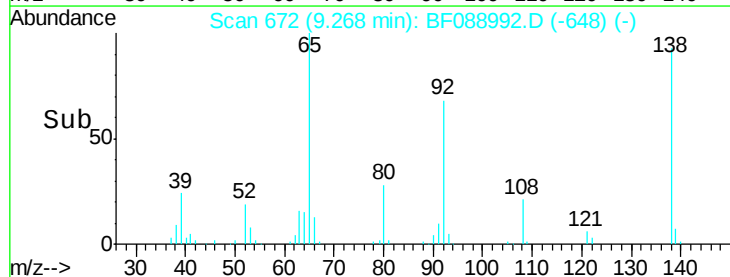
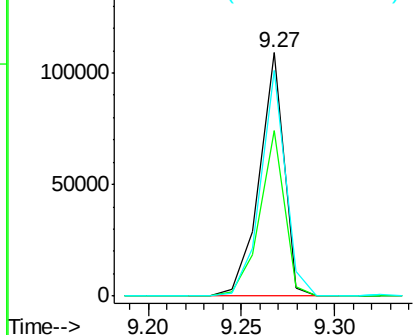


#47  
 2-Nitroaniline  
 Concen: 34.71 ng  
 RT: 9.27 min Scan# 672  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion: 65 Resp: 98968  
 Ion Ratio Lower Upper  
 65 100  
 92 68.1 54.6 82.0  
 138 92.7 77.0 115.4



Abundance Ion 65.00 (64.70 to 65.70): BF0  
 Ion 92.00 (91.70 to 92.70): BF0  
 Ion 138.00 (137.70 to 138.70): E





#48

Acenaphthylene

Concen: 38.41 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

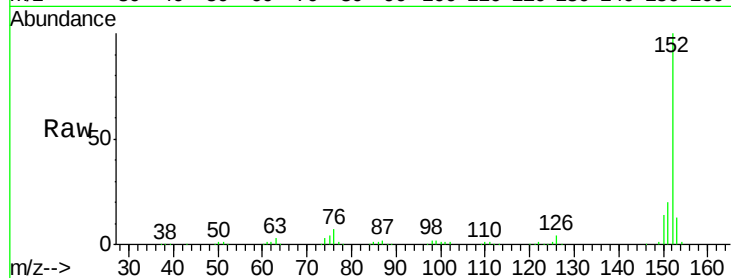
Tgt Ion:152 Resp: 491112

Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4

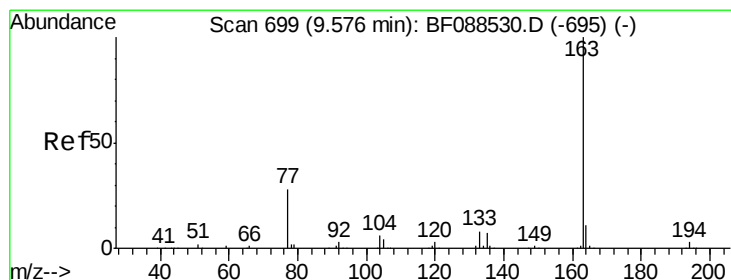
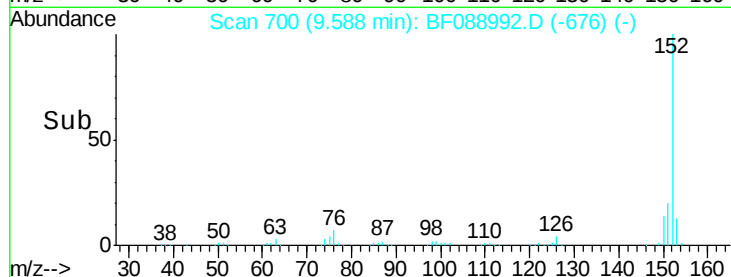
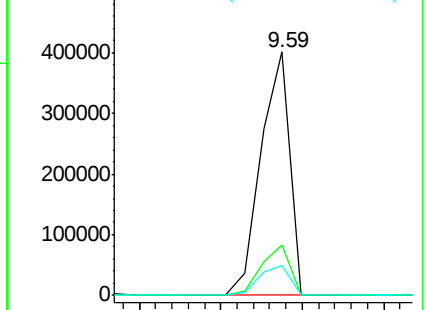
153 12.5 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 43.56 ng

RT: 9.46 min Scan# 689

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

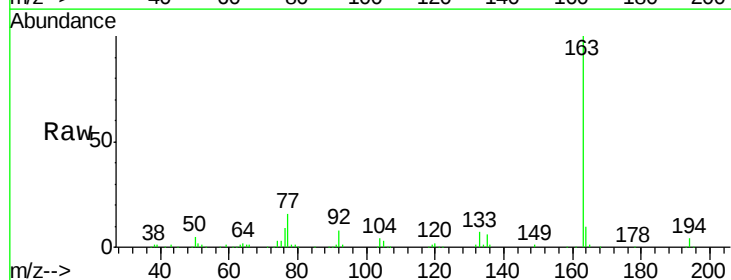
Tgt Ion:163 Resp: 383597

Ion Ratio Lower Upper

163 100

194 3.7 2.8 4.2

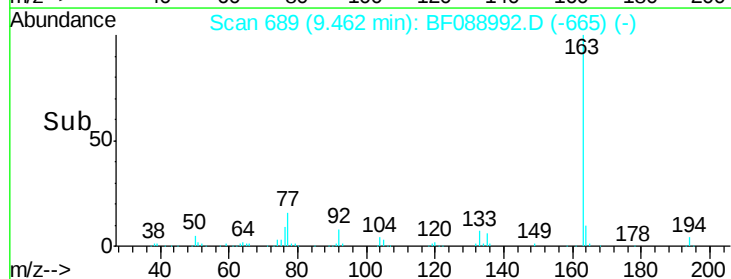
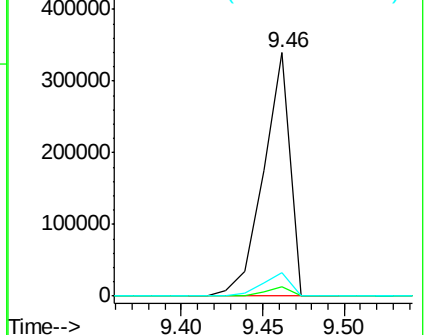
164 9.6 8.3 12.5

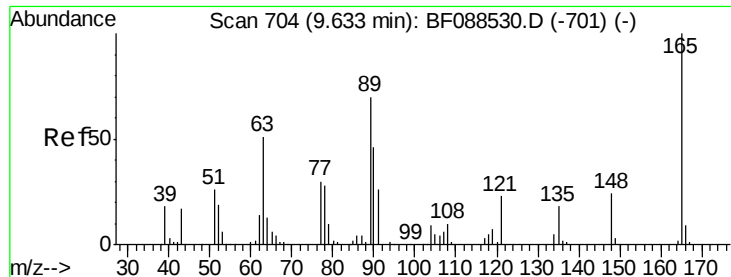


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

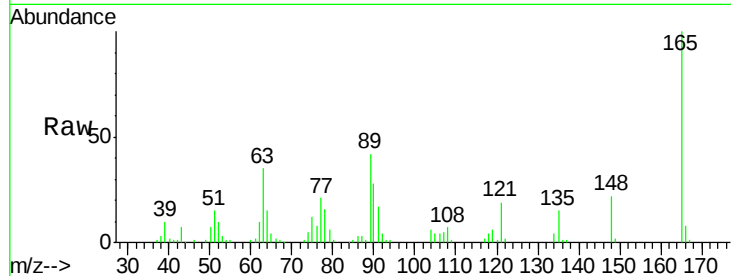




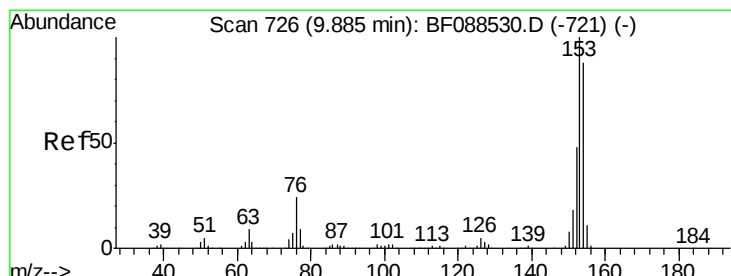
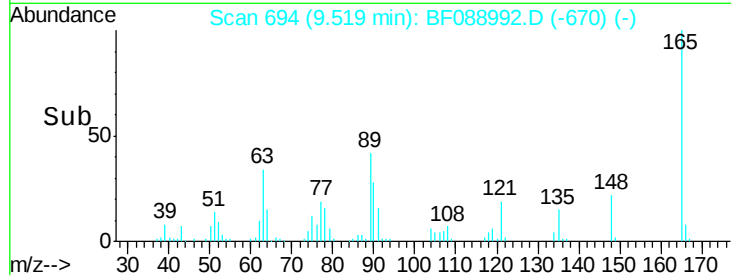
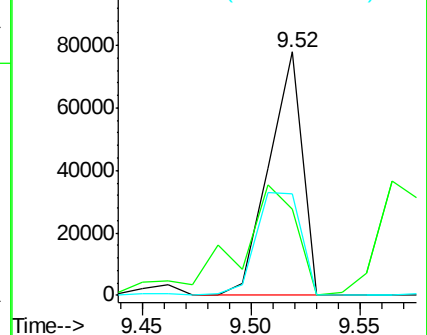
#50  
2,6-Dinitrotoluene  
Concen: 43.25 ng  
RT: 9.52 min Scan# 694  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

Tgt Ion:165 Resp: 84414  
Ion Ratio Lower Upper  
165 100  
63 35.3 28.1 42.1  
89 41.7 32.2 48.2

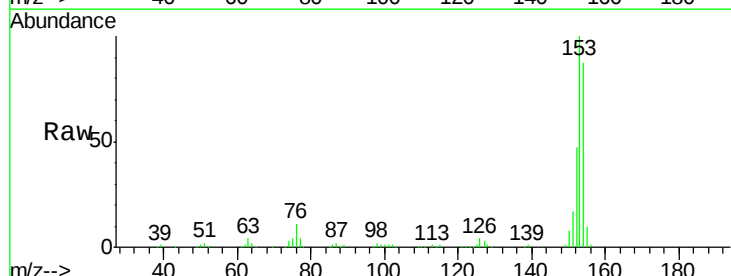


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

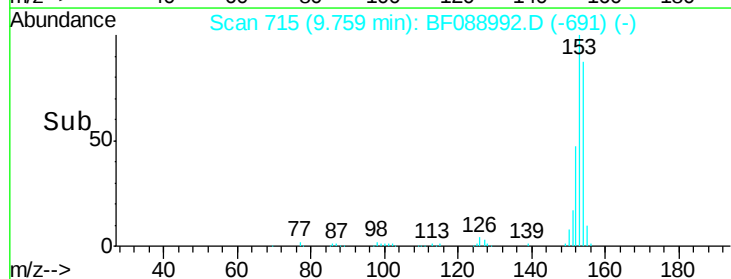
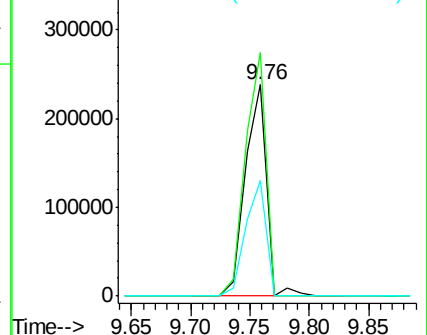


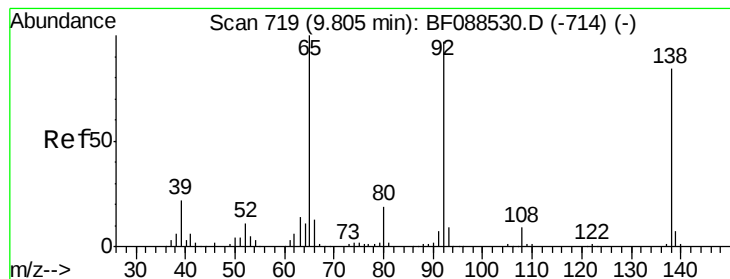
#51  
Acenaphthene  
Concen: 37.96 ng  
RT: 9.76 min Scan# 715  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion:154 Resp: 297508  
Ion Ratio Lower Upper  
154 100  
153 115.3 89.5 134.3  
152 54.5 42.7 64.1



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: 26.83 ng

RT: 9.68 min Scan# 708

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

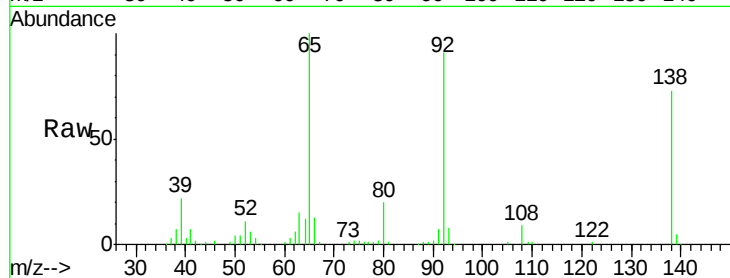
Tgt Ion:138 Resp: 66574

Ion Ratio Lower Upper

138 100

108 12.0 8.5 12.7

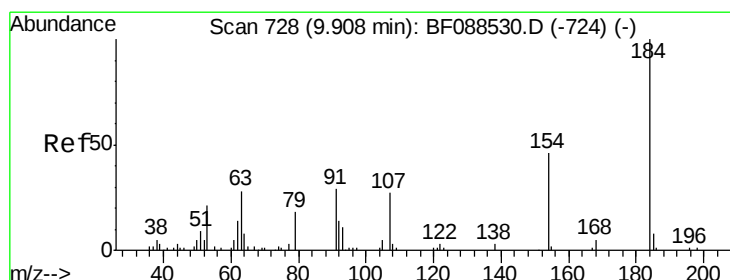
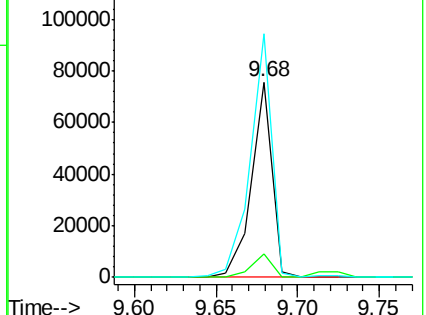
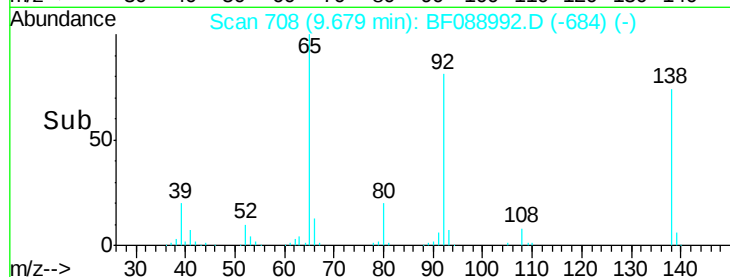
92 124.7 95.7 143.5



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: 13.83 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

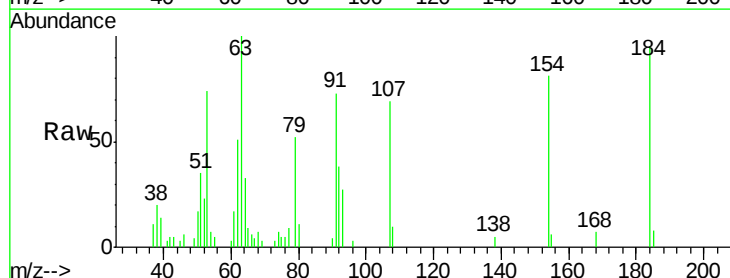
Tgt Ion:184 Resp: 11920

Ion Ratio Lower Upper

184 100

63 105.6 57.6 86.4#

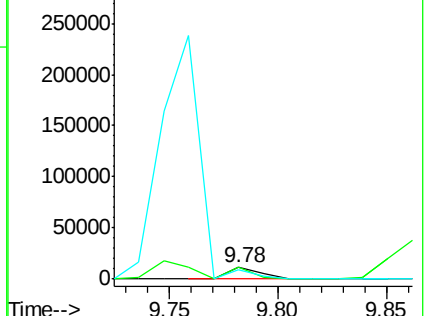
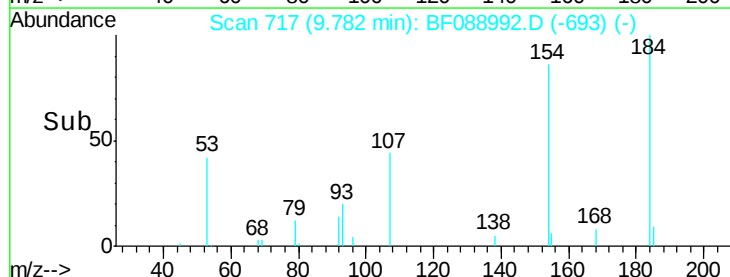
154 85.9 53.5 80.3#

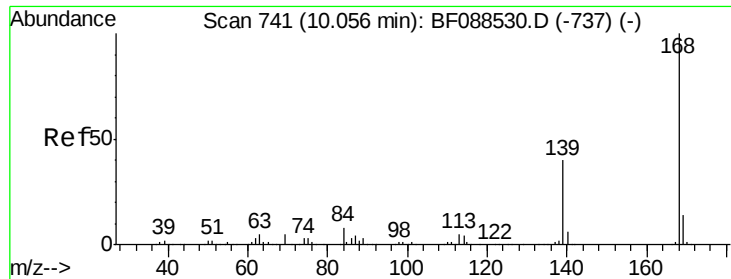


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

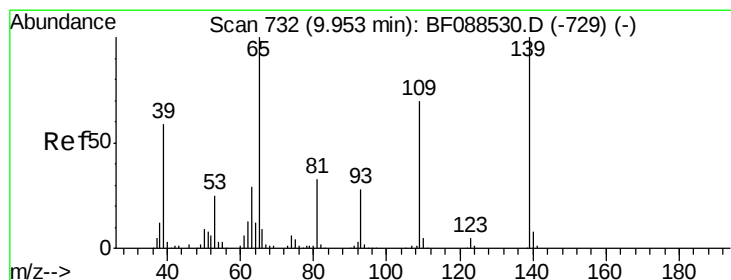
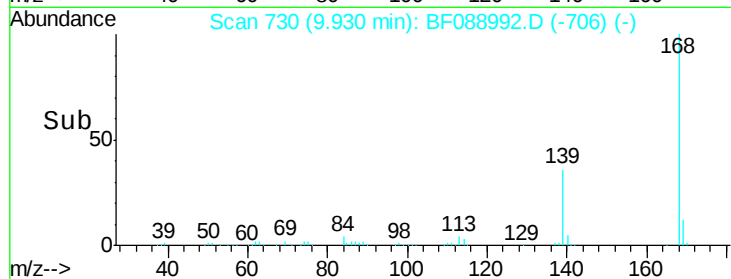
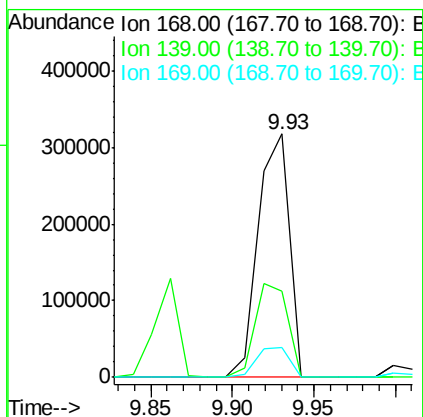
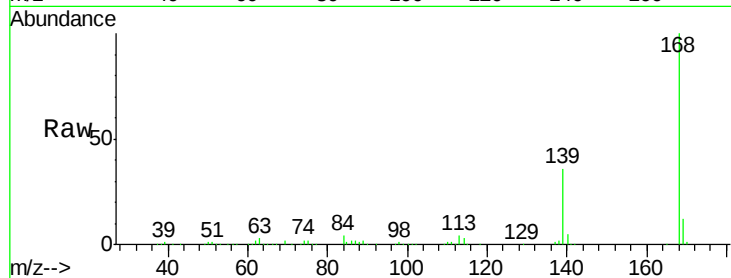




#54  
Dibenzenofuran  
Concen: 41.11 ng  
RT: 9.93 min Scan# 730  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

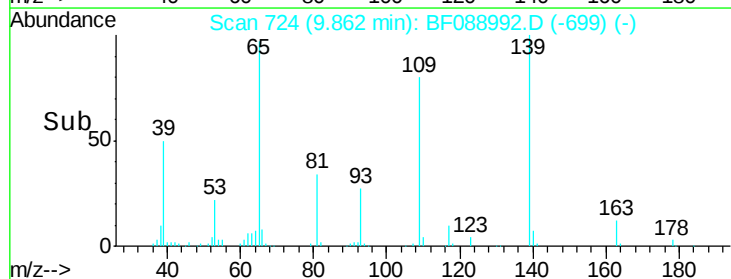
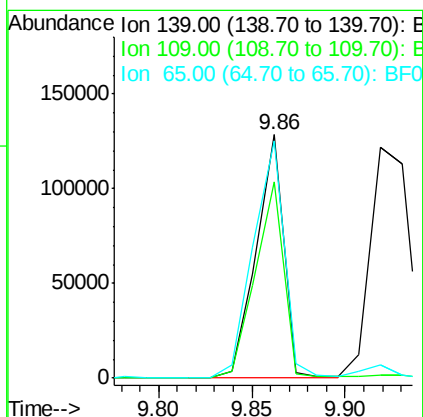
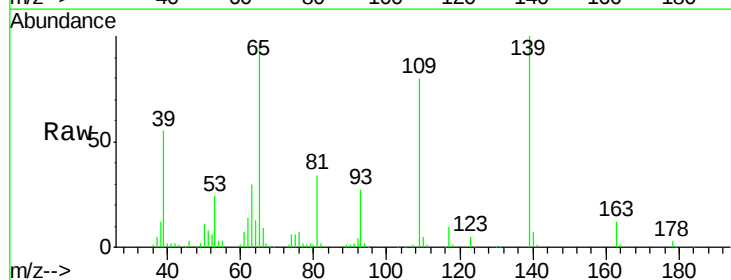
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

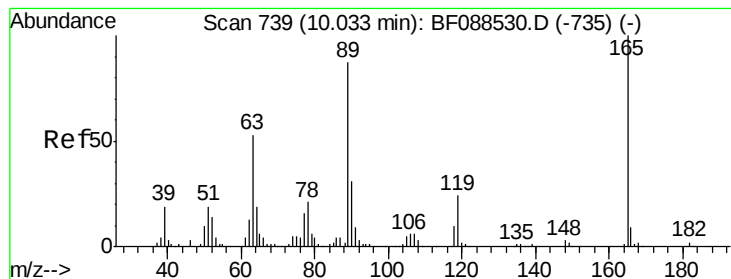
Tgt Ion:168 Resp: 421634  
Ion Ratio Lower Upper  
168 100  
139 35.6 26.4 39.6  
169 12.5 10.4 15.6



#55  
4-Nitrophenol  
Concen: 69.93 ng  
RT: 9.86 min Scan# 724  
Delta R.T. -0.01 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion:139 Resp: 131846  
Ion Ratio Lower Upper  
139 100  
109 80.4 48.9 88.9  
65 97.3 84.9 124.9





#56

2,4-Dinitrotoluene

Concen: 45.76 ng

RT: 9.92 min Scan# 729

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

Tgt Ion:165 Resp: 116775

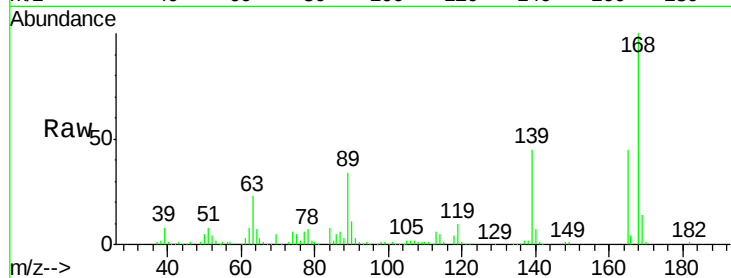
Ion Ratio Lower Upper

165 100

63 52.1 22.0 33.0#

89 75.1 41.1 61.7#

182 2.5 2.0 3.0

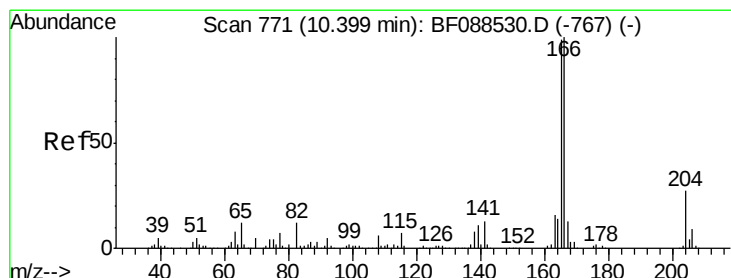
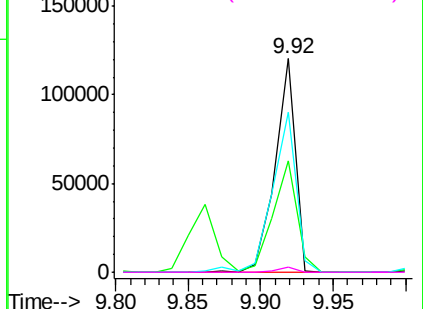
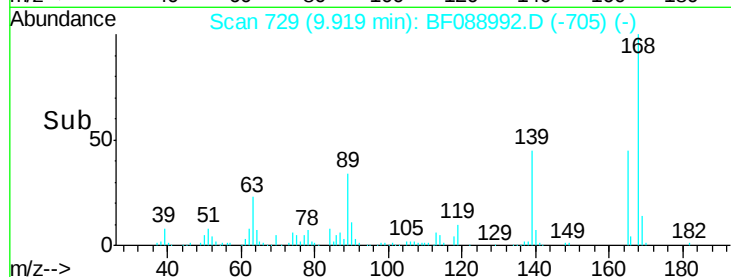


Abundance Ion 165.00 (164.70 to 165.70): E

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: 38.11 ng

RT: 10.26 min Scan# 759

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

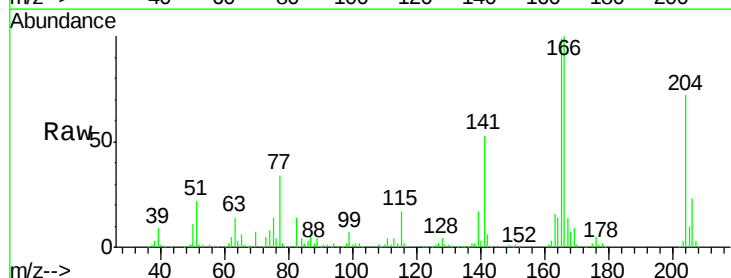
Tgt Ion:166 Resp: 301214

Ion Ratio Lower Upper

166 100

165 98.7 77.8 116.8

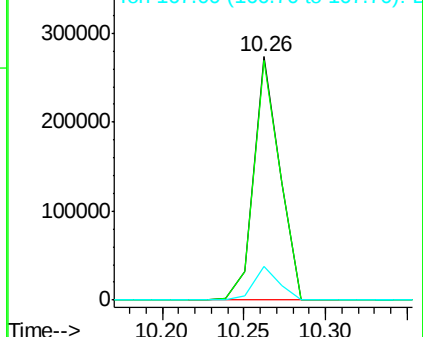
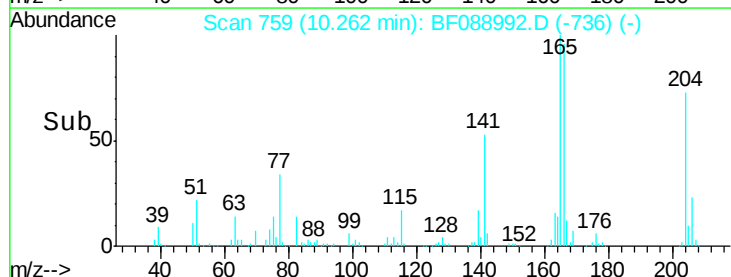
167 13.7 11.2 16.8

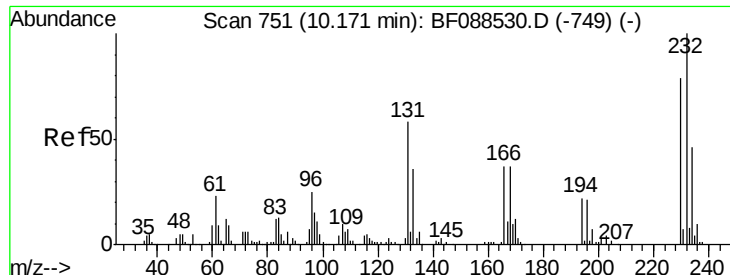


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

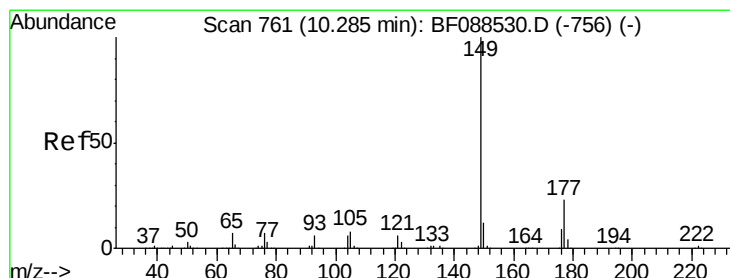
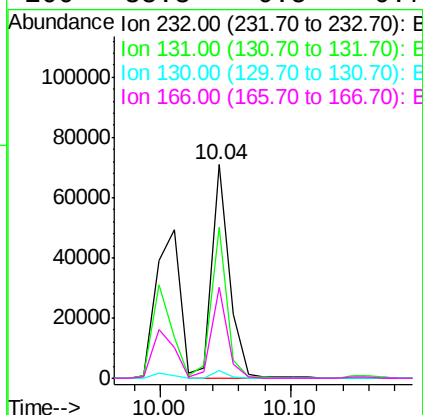
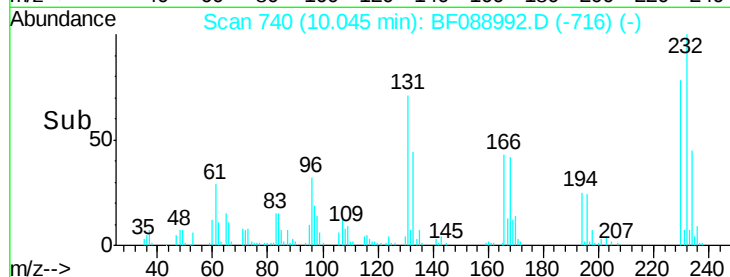
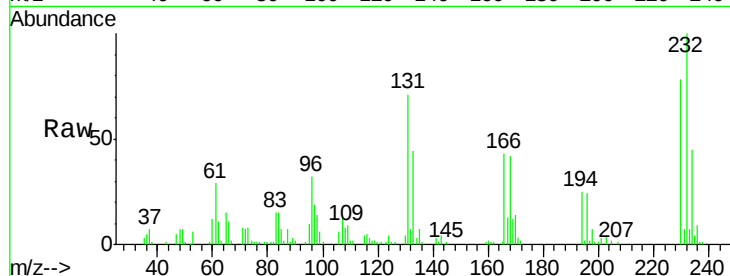




#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 37.65 ng  
 RT: 10.04 min Scan# 740  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

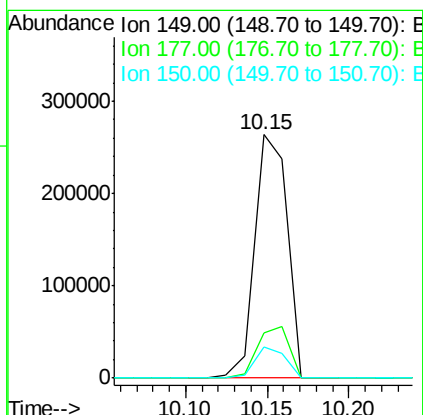
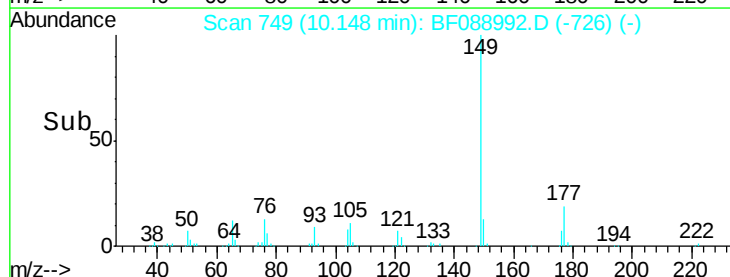
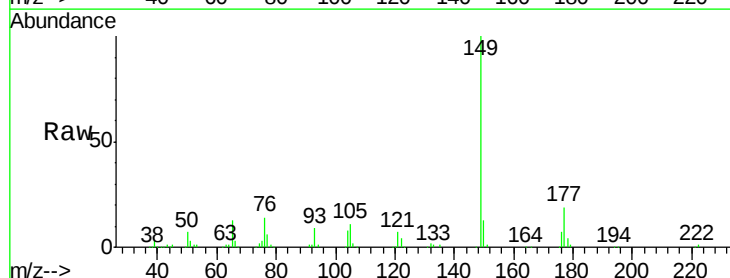
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion:232 Resp: 67926  
 Ion Ratio Lower Upper  
 232 100  
 131 61.6 0.9 1.3#  
 130 3.1 1.5 2.3#  
 166 38.3 0.5 0.7#



#59  
 Diethylphthalate  
 Concen: 41.09 ng  
 RT: 10.15 min Scan# 749  
 Delta R.T. -0.03 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion:149 Resp: 363117  
 Ion Ratio Lower Upper  
 149 100  
 177 18.6 16.9 25.3  
 150 12.7 10.1 15.1

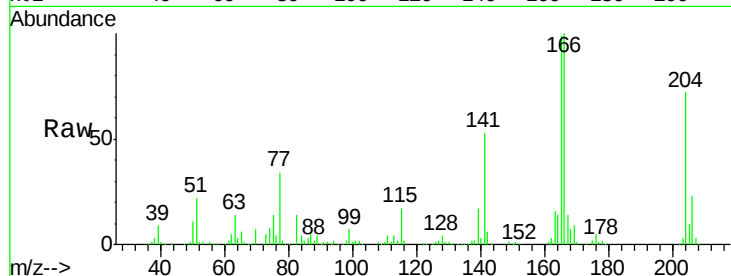




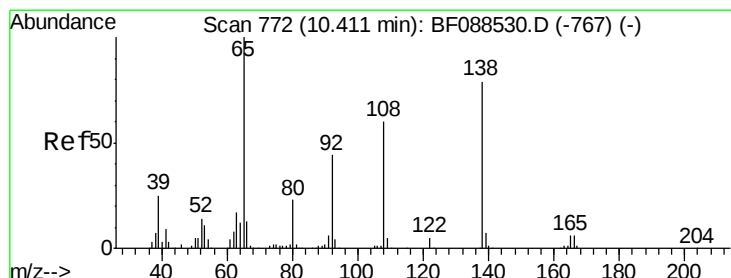
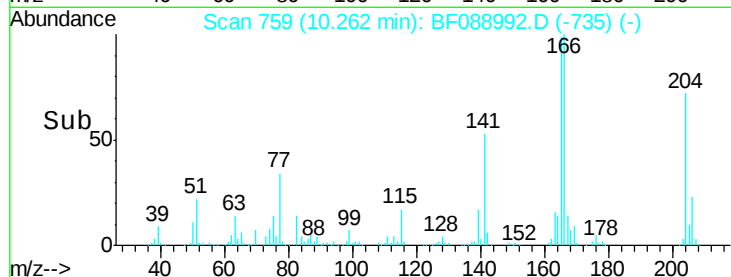
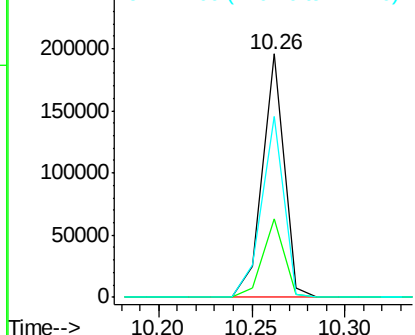
#60  
 4-Chlorophenyl-phenylether  
 Concen: 42.61 ng  
 RT: 10.26 min Scan# 759  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

Tgt Ion:204 Resp: 156485  
 Ion Ratio Lower Upper  
 204 100  
 206 32.1 26.3 39.5  
 141 74.0 55.0 82.6

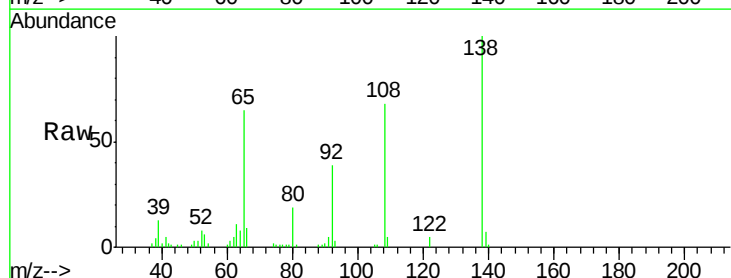


Abundance Ion 204.00 (203.70 to 204.70): E  
 Ion 206.00 (205.70 to 206.70): E  
 Ion 141.00 (140.70 to 141.70): E

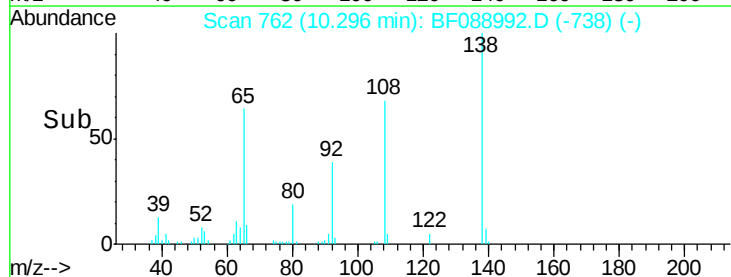
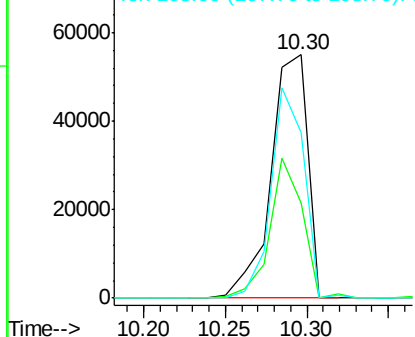


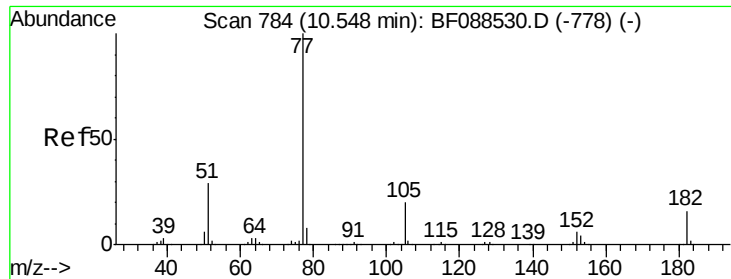
#61  
 4-Nitroaniline  
 Concen: 36.15 ng  
 RT: 10.30 min Scan# 762  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion:138 Resp: 86316  
 Ion Ratio Lower Upper  
 138 100  
 92 38.9 27.3 67.3  
 108 68.0 46.7 86.7



Abundance Ion 138.00 (137.70 to 138.70): E  
 Ion 92.00 (91.70 to 92.70): BF0  
 Ion 108.00 (107.70 to 108.70): E

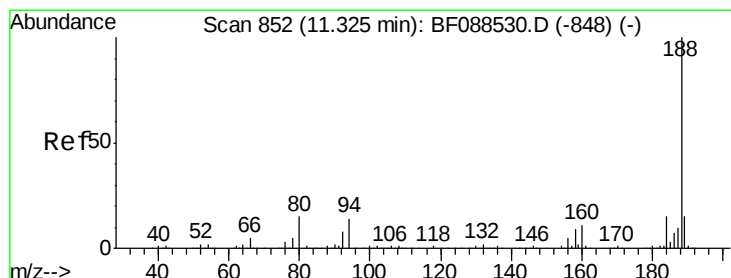
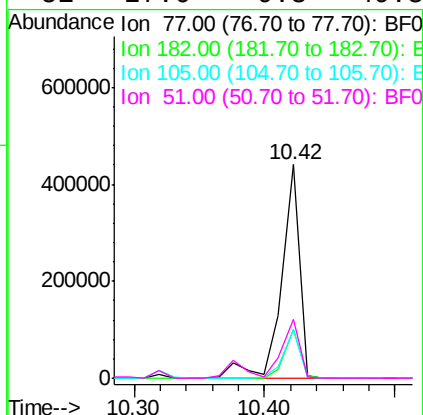
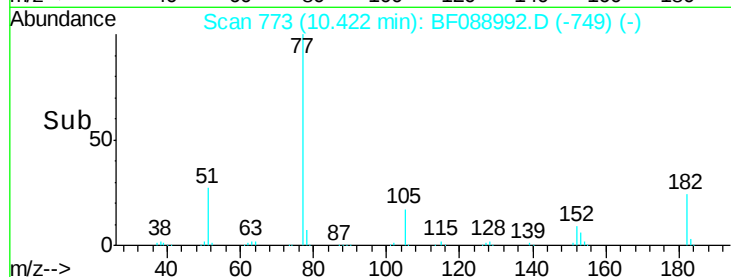
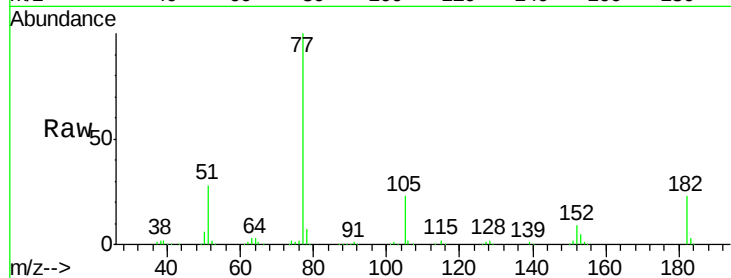




#62  
Azobenzene  
Concen: 43.22 ng  
RT: 10.42 min Scan# 773  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

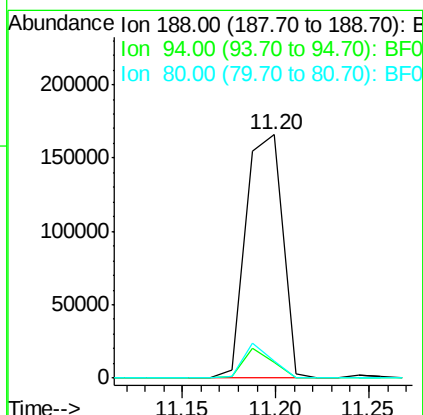
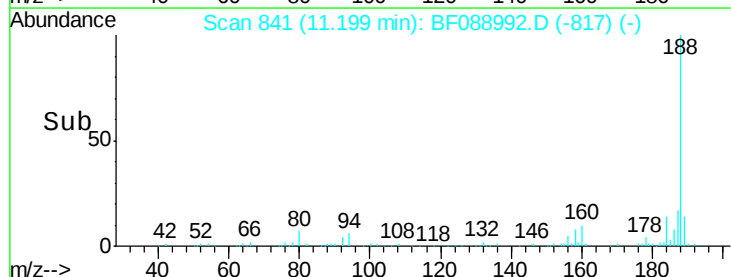
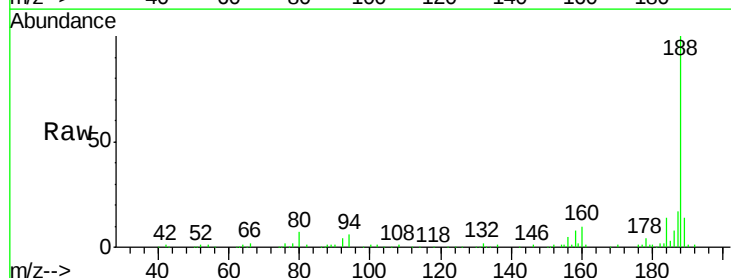
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

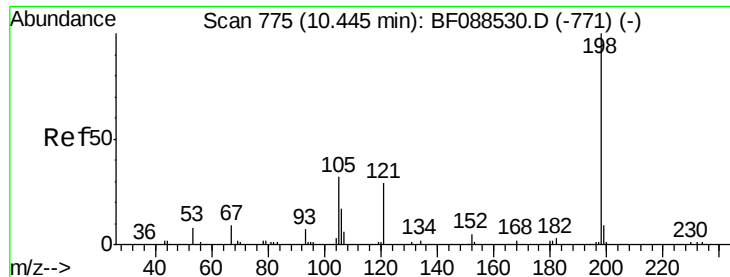
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 435624 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 182      | 22.8  | 4.4   | 44.4   |
| 105      | 22.7  | 3.8   | 43.8   |
| 51       | 27.6  | 9.3   | 49.3   |



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.20 min Scan# 841  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 225579 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 6.4   | 9.0   | 13.6#  |
| 80       | 6.8   | 10.0  | 15.0#  |





#64

4,6-Dinitro-2-methylphenol

Concen: 17.10 ng

RT: 10.32 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

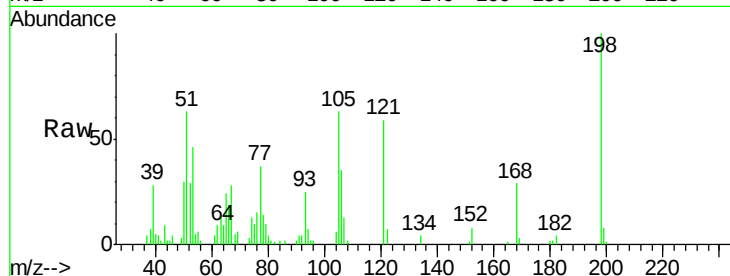
Tgt Ion:198 Resp: 20632

Ion Ratio Lower Upper

198 100

51 62.9 39.6 79.6

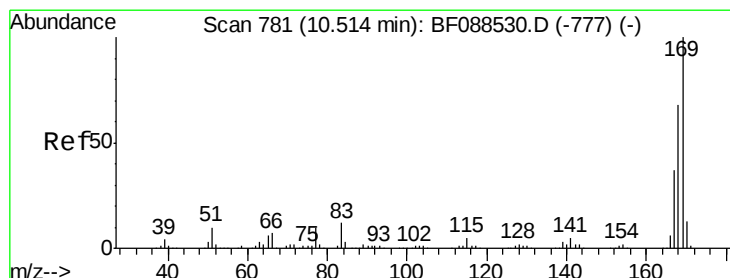
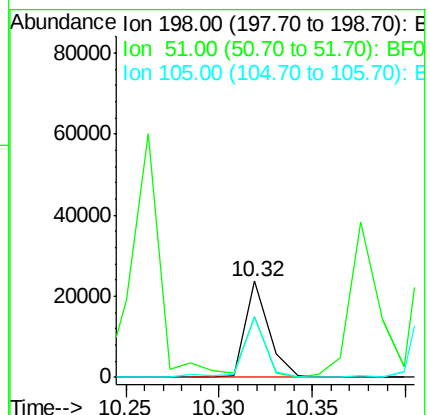
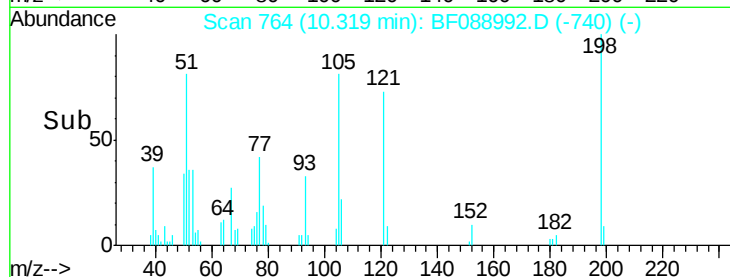
105 62.7 36.6 76.6



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: 39.17 ng

RT: 10.39 min Scan# 770

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

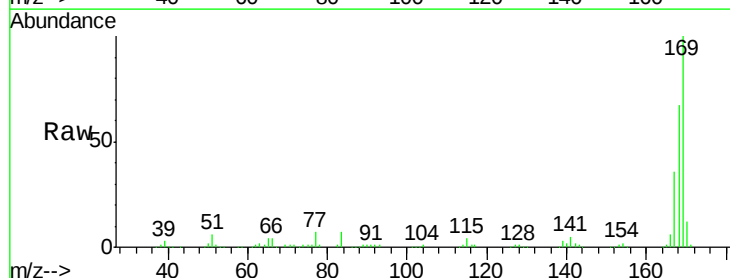
Tgt Ion:169 Resp: 299056

Ion Ratio Lower Upper

169 100

168 67.2 53.4 80.0

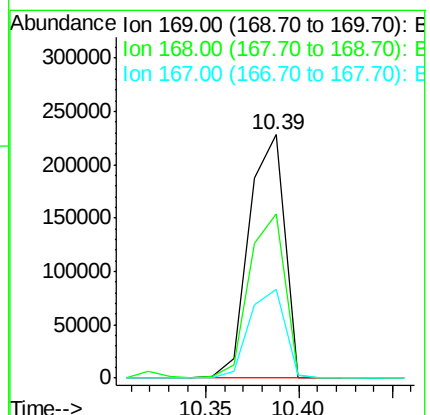
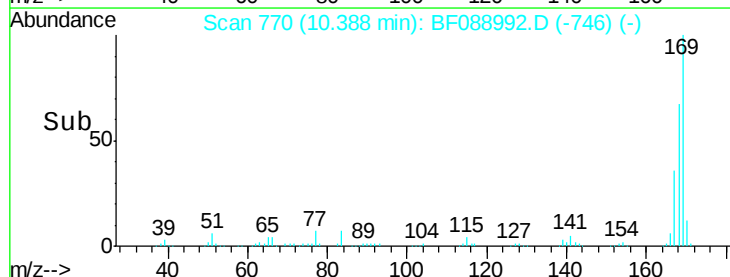
167 36.2 29.4 44.0

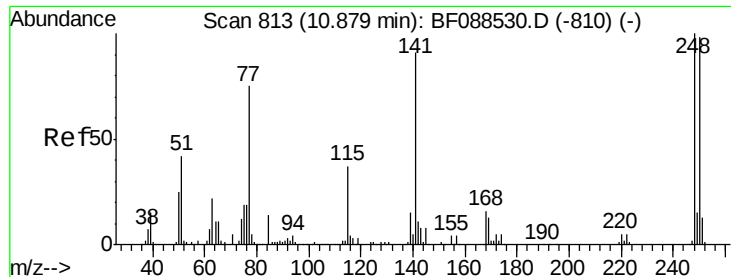


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

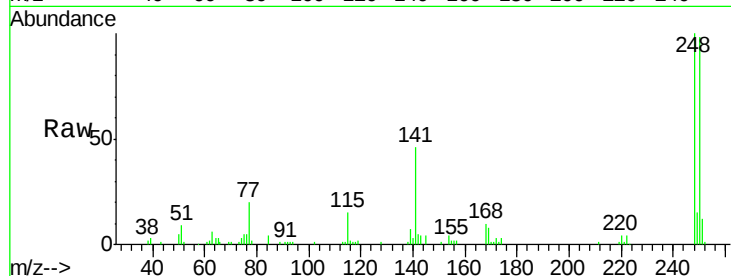




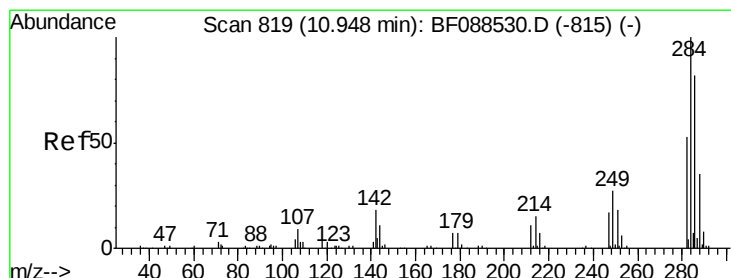
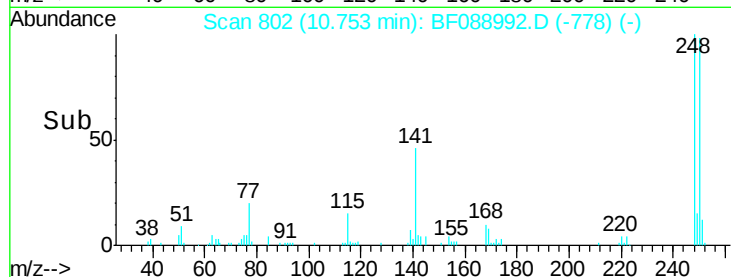
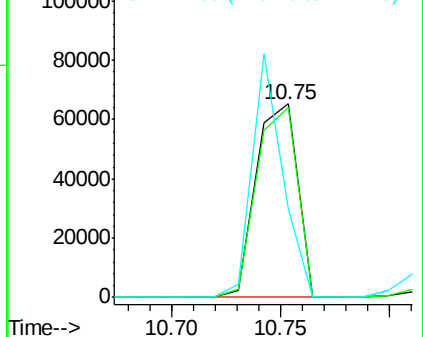
#66  
4-Bromophenyl-phenylether  
Concen: 38.23 ng  
RT: 10.75 min Scan# 802  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Instrument :  
BNA\_F  
ClientSampled :  
PB92031BS

Tgt Ion:248 Resp: 86903  
Ion Ratio Lower Upper  
248 100  
250 98.1 77.1 115.7  
141 45.9 50.6 76.0#

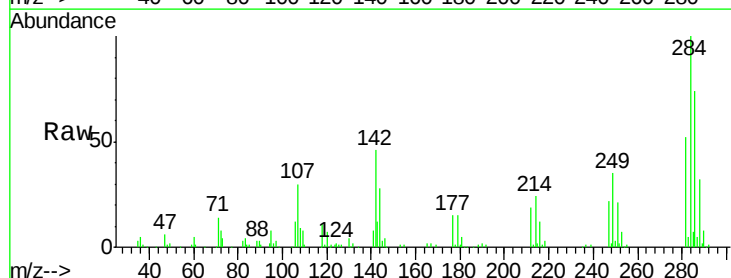


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

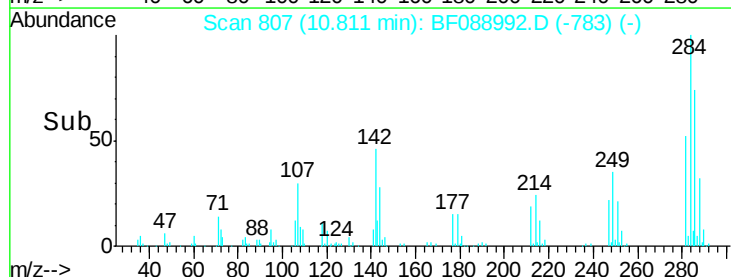
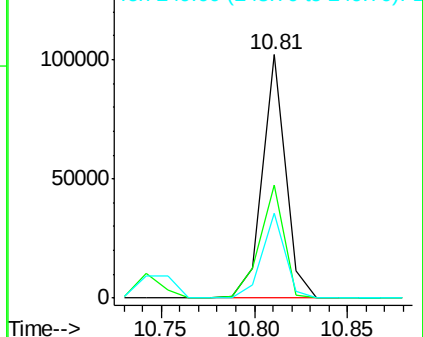


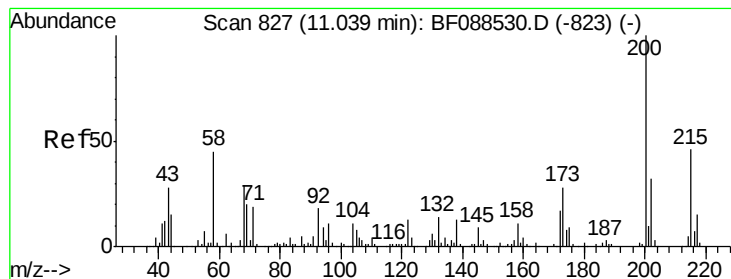
#67  
Hexachlorobenzene  
Concen: 34.62 ng  
RT: 10.81 min Scan# 807  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion:284 Resp: 87110  
Ion Ratio Lower Upper  
284 100  
142 46.4 35.8 53.8  
249 35.0 25.8 38.6



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: 35.45 ng

RT: 10.91 min Scan# 816

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

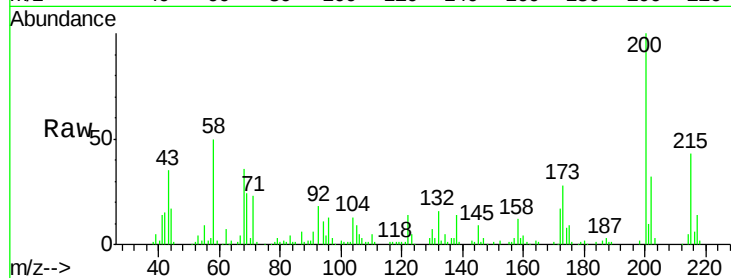
Tgt Ion:200 Resp: 84340

Ion Ratio Lower Upper

200 100

173 27.7 4.0 44.0

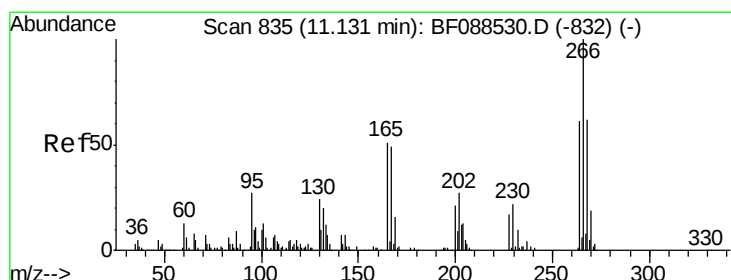
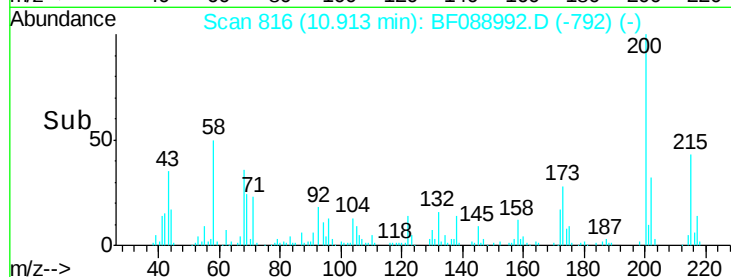
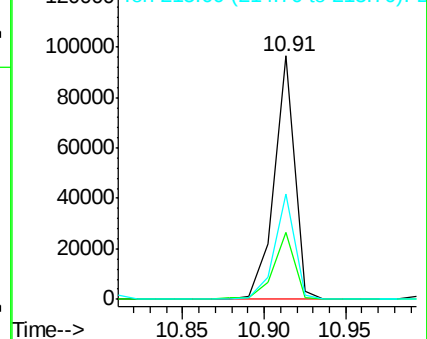
215 43.3 29.3 69.3



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: 36.59 ng

RT: 11.00 min Scan# 824

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

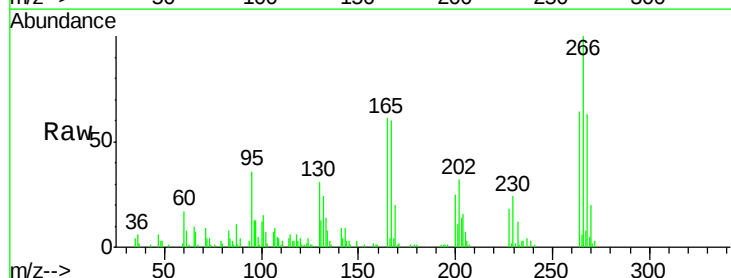
Tgt Ion:266 Resp: 54496

Ion Ratio Lower Upper

266 100

268 63.3 52.8 79.2

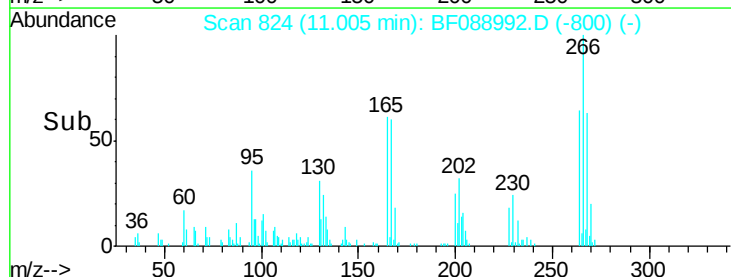
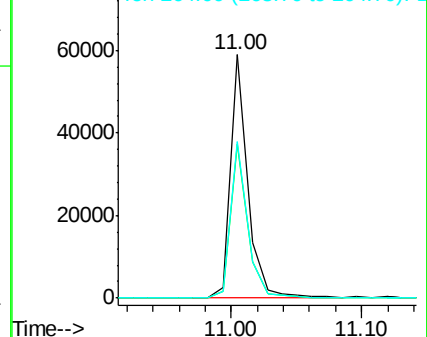
264 64.4 49.6 74.4

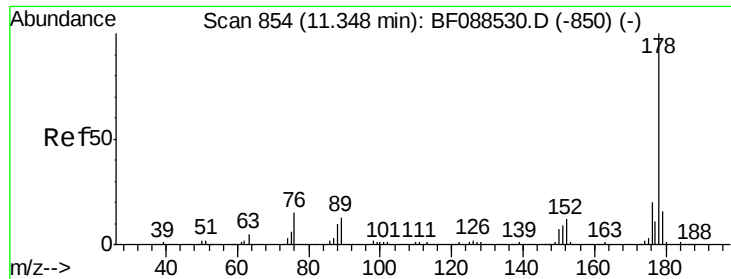


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

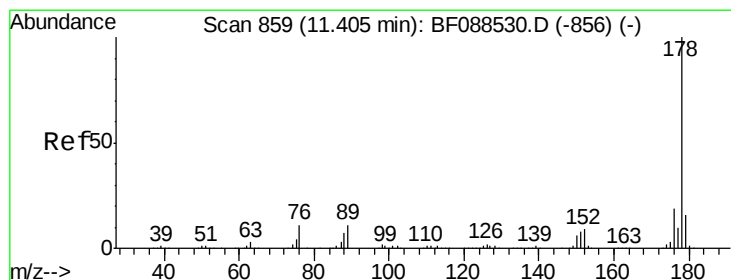
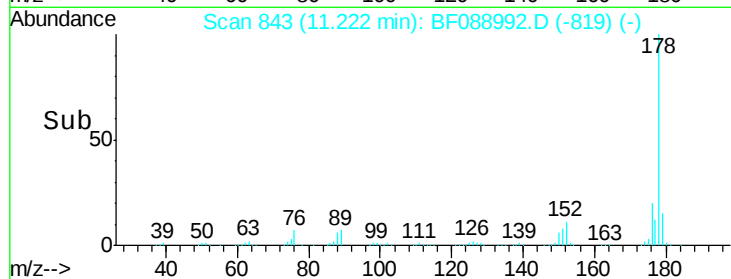
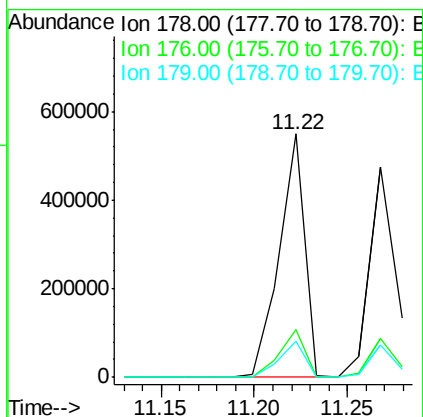
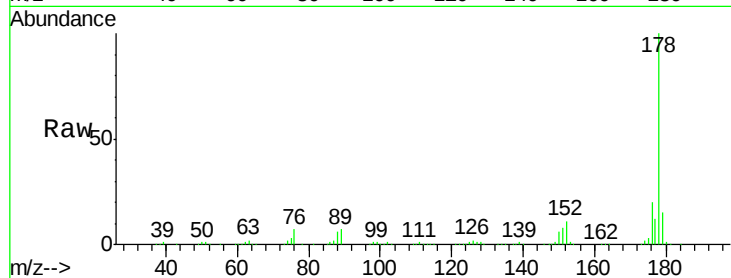




#70  
Phenanthrene  
Concen: 42.56 ng  
RT: 11.22 min Scan# 843  
Delta R.T. -0.02 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

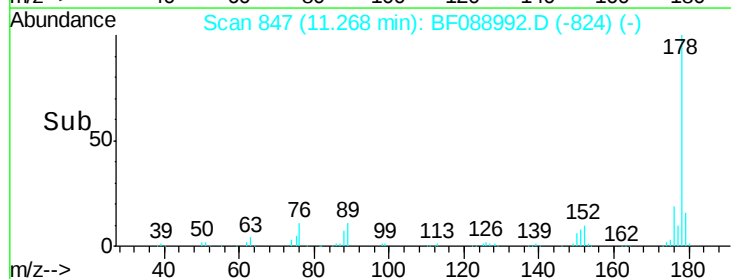
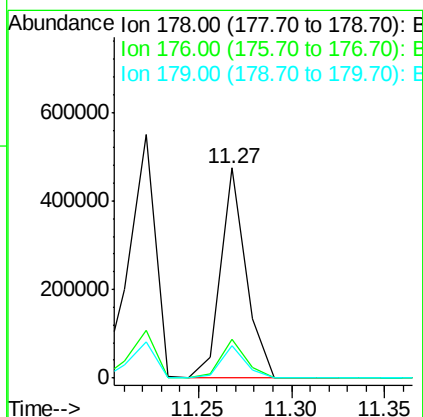
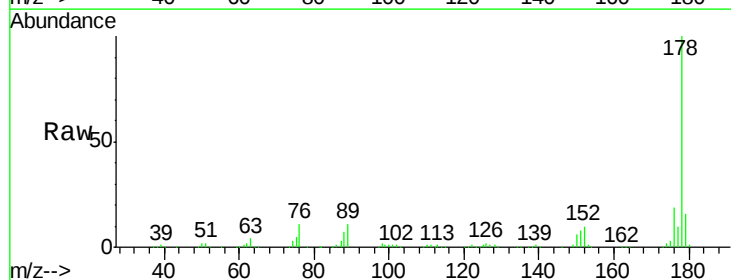
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

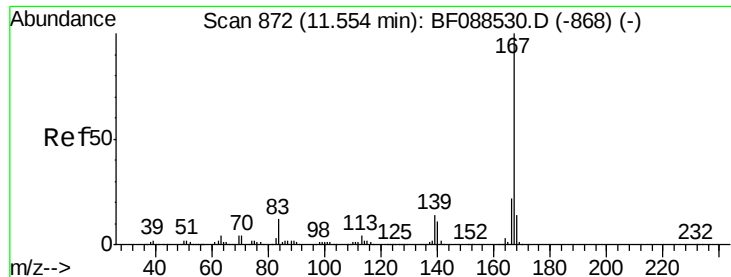
Tgt Ion:178 Resp: 524788  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.8 23.6  
179 15.0 13.0 19.4



#71  
Anthracene  
Concen: 36.72 ng  
RT: 11.27 min Scan# 847  
Delta R.T. -0.03 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion:178 Resp: 450269  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.6 23.4  
179 15.6 12.8 19.2

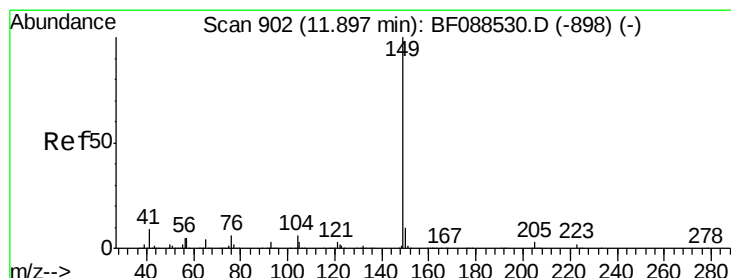
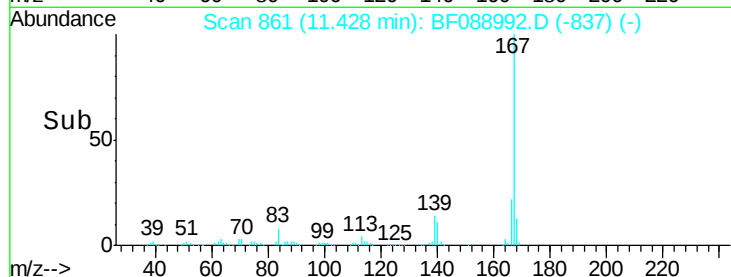
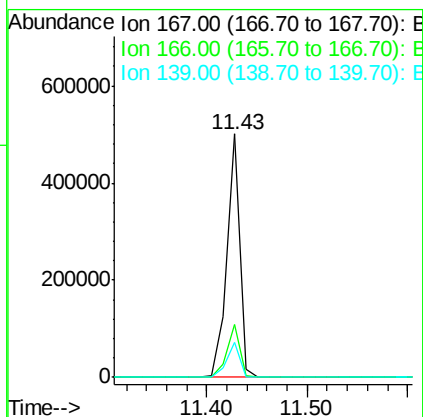
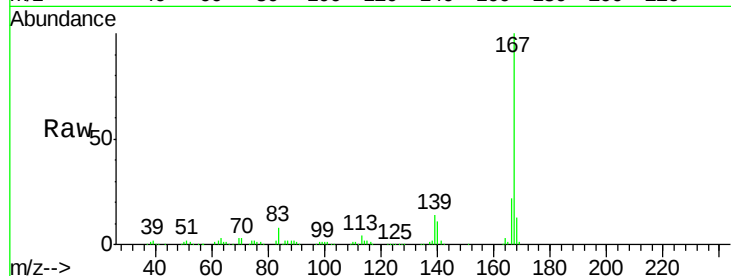




#72  
 Carbazole  
 Concen: 38.52 ng  
 RT: 11.43 min Scan# 861  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

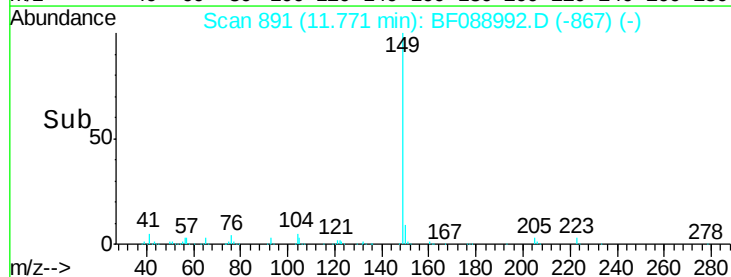
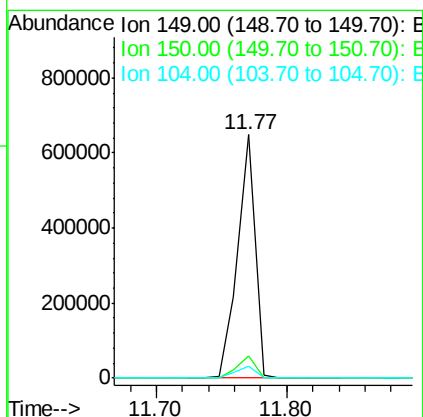
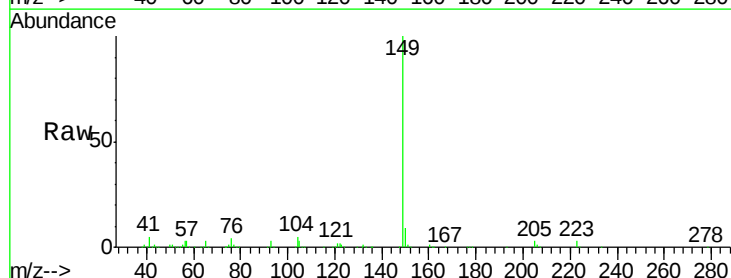
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB92031BS

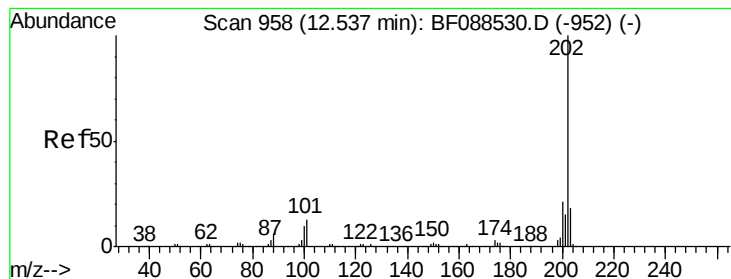
Tgt Ion:167 Resp: 444568  
 Ion Ratio Lower Upper  
 167 100  
 166 21.8 17.8 26.6  
 139 14.2 11.2 16.8



#73  
 Di-n-butylphthalate  
 Concen: 44.85 ng  
 RT: 11.77 min Scan# 891  
 Delta R.T. -0.02 min  
 Lab File: BF088992.D  
 Acq: 14 Jul 2016 18:16

Tgt Ion:149 Resp: 602072  
 Ion Ratio Lower Upper  
 149 100  
 150 9.1 7.8 11.6  
 104 4.9 4.0 6.0





#74

Fluoranthene

Concen: 39.31 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

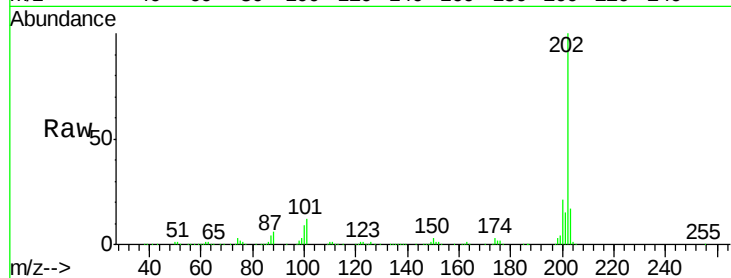
Tgt Ion: 202 Resp: 491371

Ion Ratio Lower Upper

202 100

101 11.7 0.0 33.1

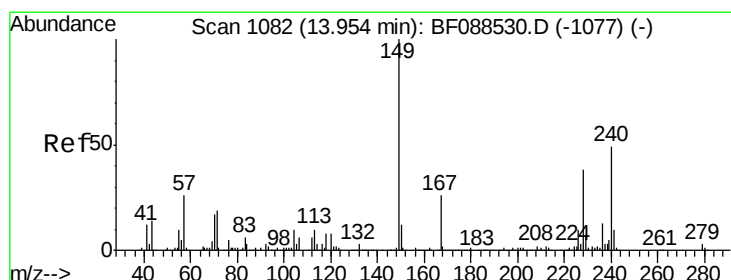
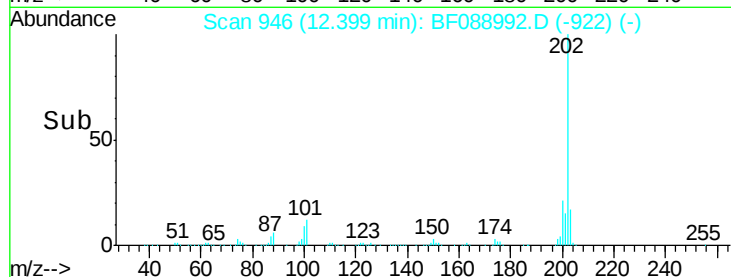
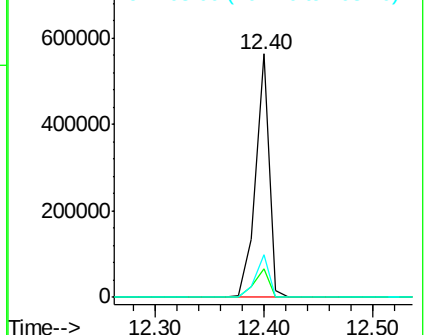
203 17.5 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

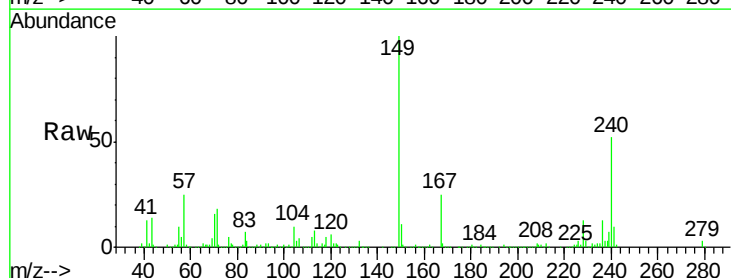
Tgt Ion: 240 Resp: 142174

Ion Ratio Lower Upper

240 100

120 11.3 6.8 10.2#

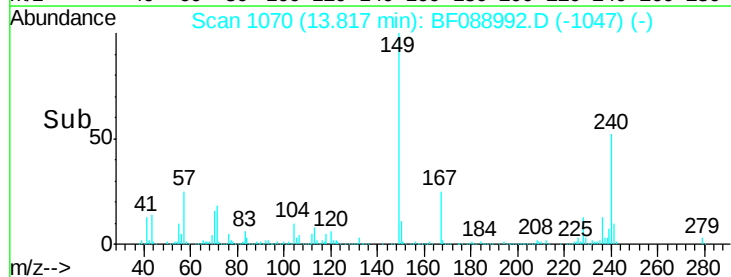
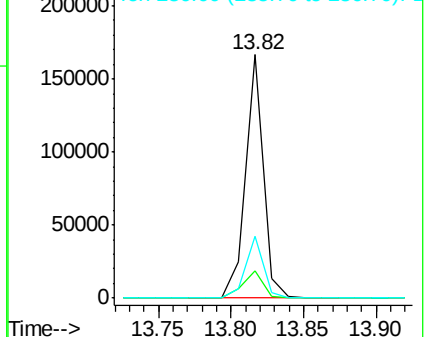
236 25.4 20.2 30.2

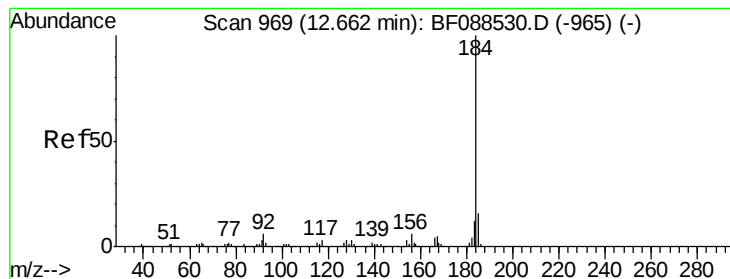


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 26.76 ng

RT: 12.52 min Scan# 957

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

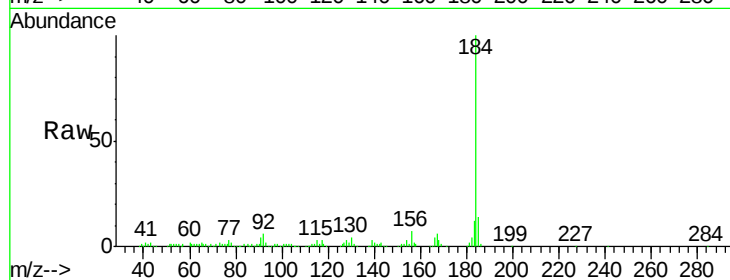
Tgt Ion:184 Resp: 192324

Ion Ratio Lower Upper

184 100

185 13.8 12.5 18.7

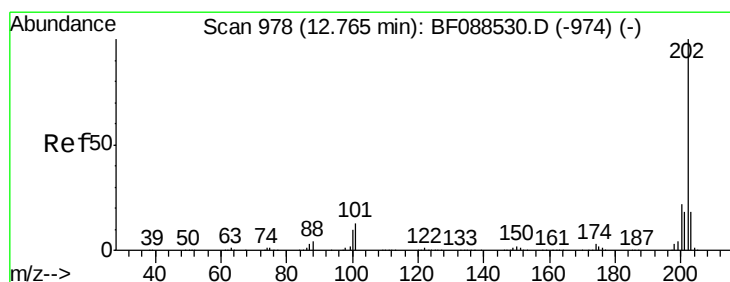
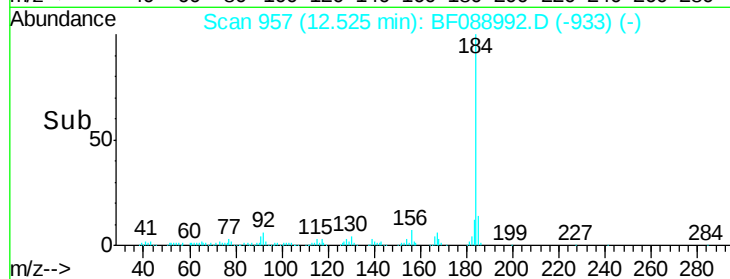
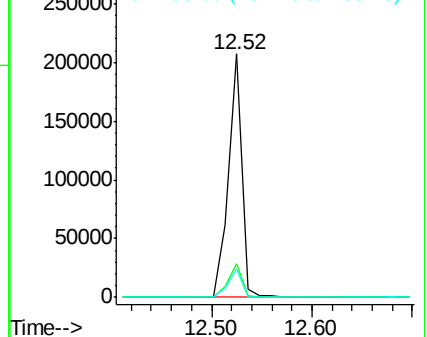
183 12.0 9.3 13.9



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 41.07 ng

RT: 12.63 min Scan# 966

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

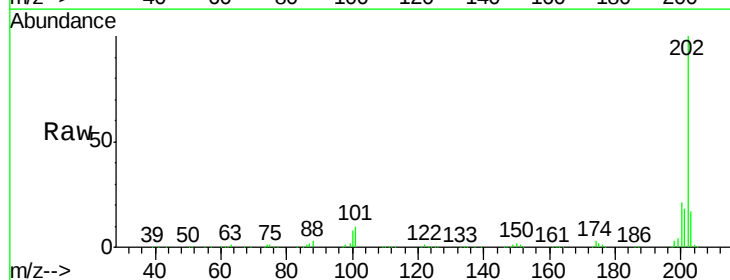
Tgt Ion:202 Resp: 495034

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

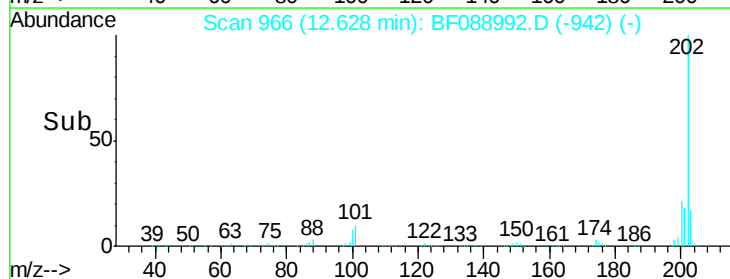
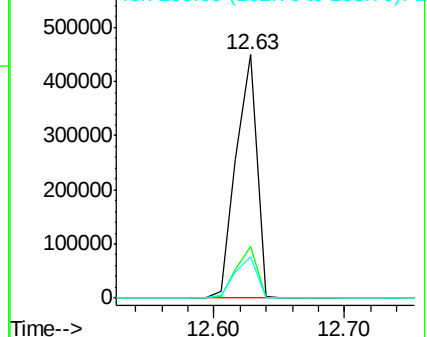
203 16.9 14.5 21.7

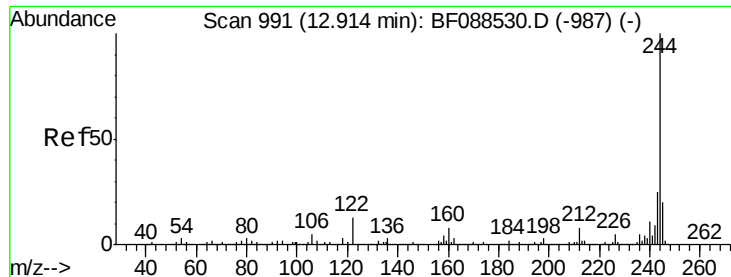


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 79.95 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

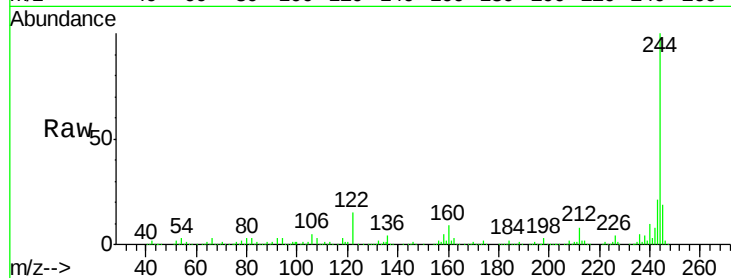
Tgt Ion:244 Resp: 510335

Ion Ratio Lower Upper

244 100

212 7.9 6.0 9.0

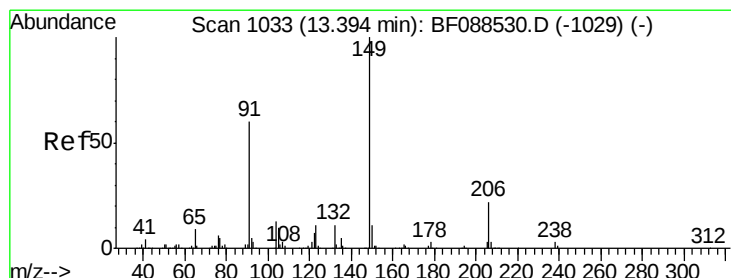
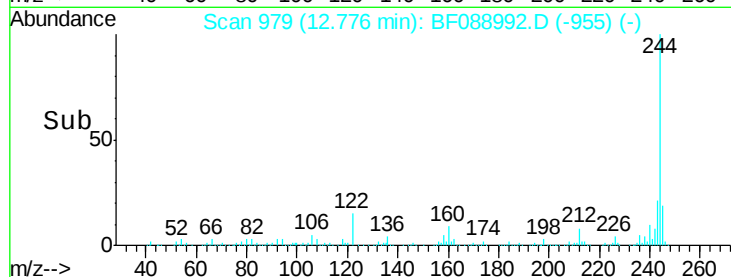
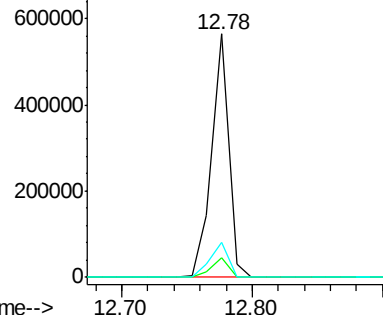
122 14.6 11.2 16.8



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: 41.74 ng

RT: 13.26 min Scan# 1021

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

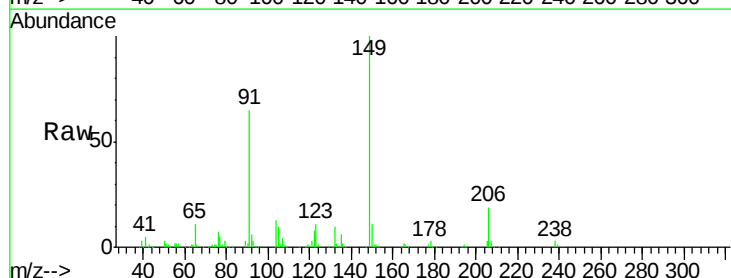
Tgt Ion:149 Resp: 224432

Ion Ratio Lower Upper

149 100

91 64.5 48.0 72.0

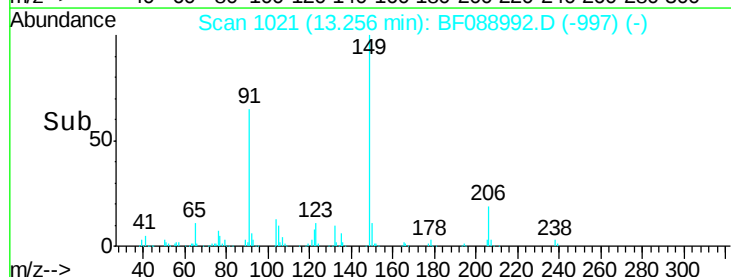
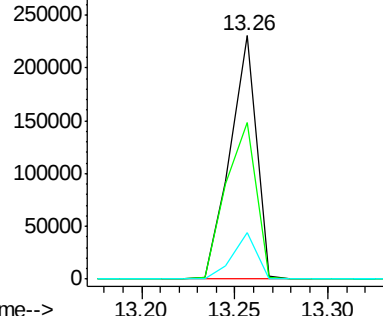
206 19.3 16.0 24.0

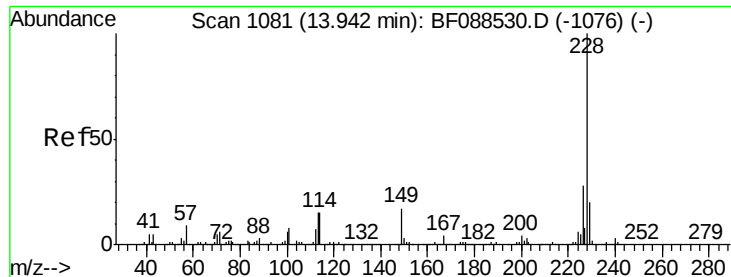


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 37.73 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

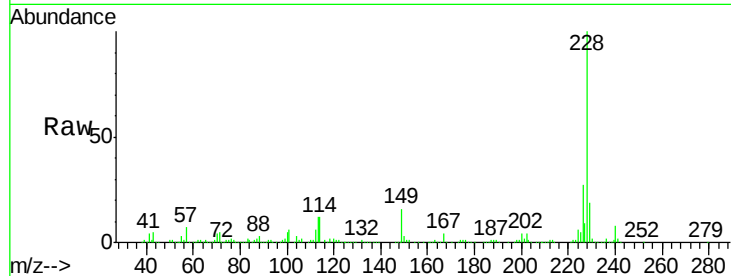
Tgt Ion:228 Resp: 345437

Ion Ratio Lower Upper

228 100

226 27.2 22.3 33.5

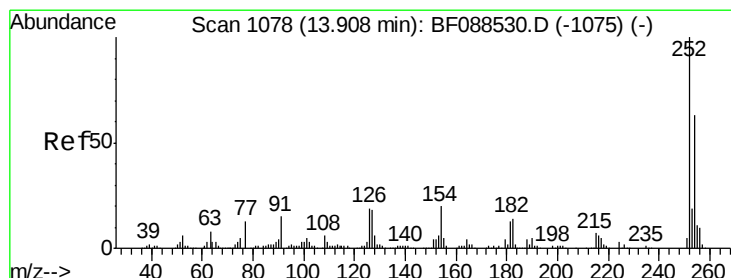
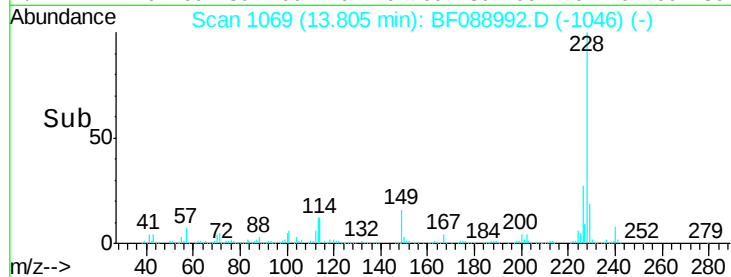
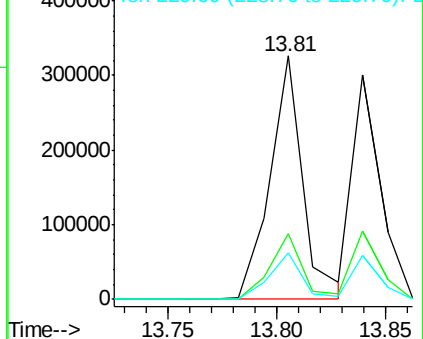
229 19.2 16.0 24.0



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



#81

3,3'-Dichlorobenzidine

Concen: 15.01 ng

RT: 13.77 min Scan# 1066

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

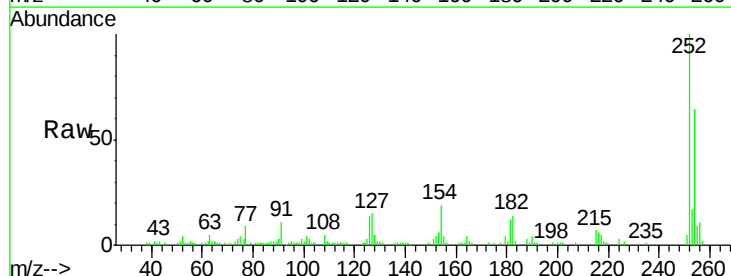
Tgt Ion:252 Resp: 51673

Ion Ratio Lower Upper

252 100

254 63.7 52.6 78.8

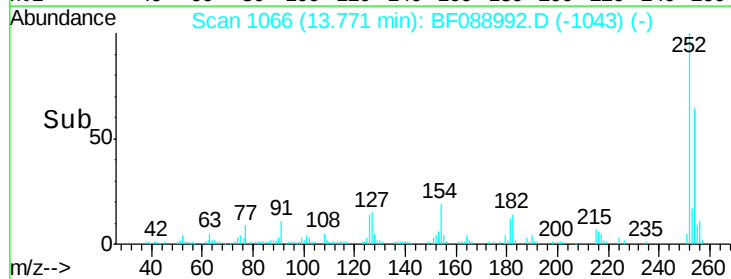
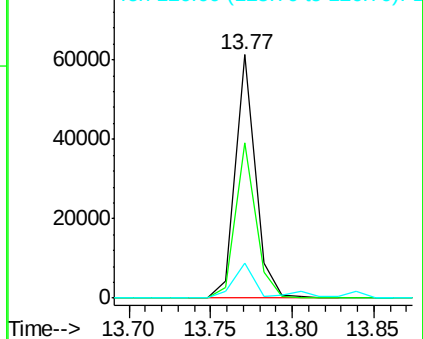
126 14.3 6.2 9.2#

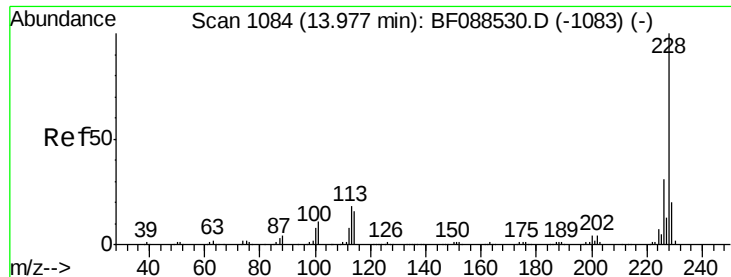


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 30.10 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

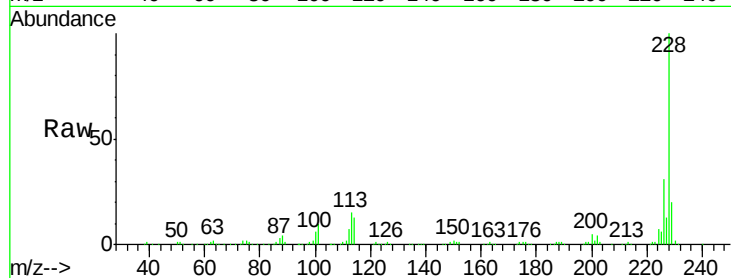
Tgt Ion: 228 Resp: 272598

Ion Ratio Lower Upper

228 100

226 30.6 25.4 38.2

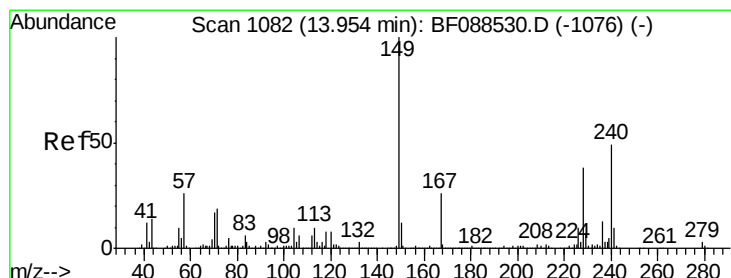
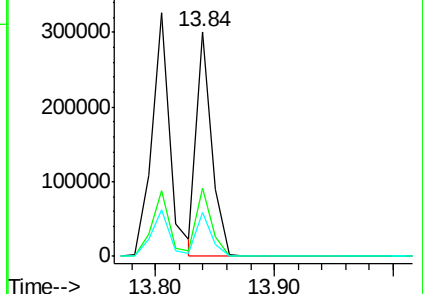
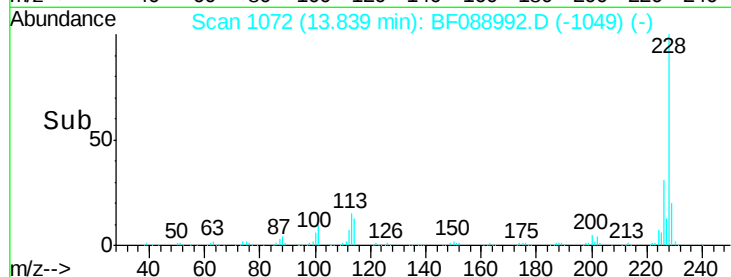
229 19.7 16.3 24.5



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: 44.47 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

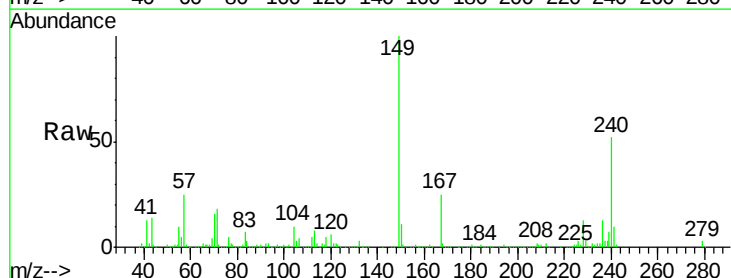
Tgt Ion: 149 Resp: 272973

Ion Ratio Lower Upper

149 100

167 24.9 20.5 30.7

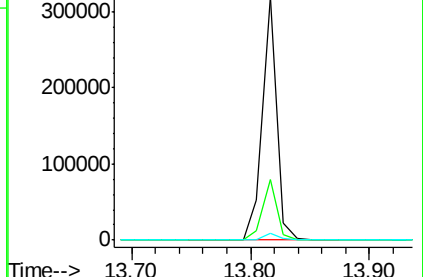
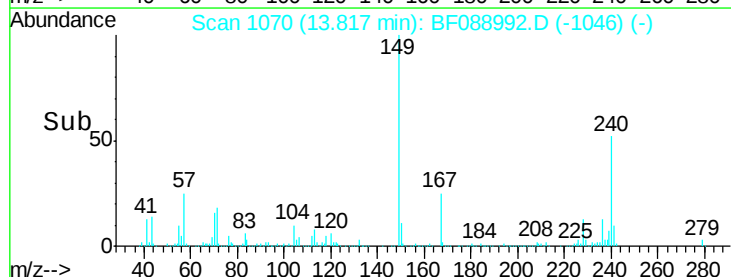
279 2.6 2.0 3.0

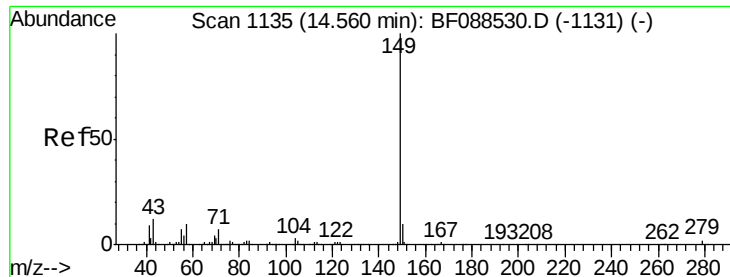


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 36.95 ng

RT: 14.42 min Scan# 1123

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

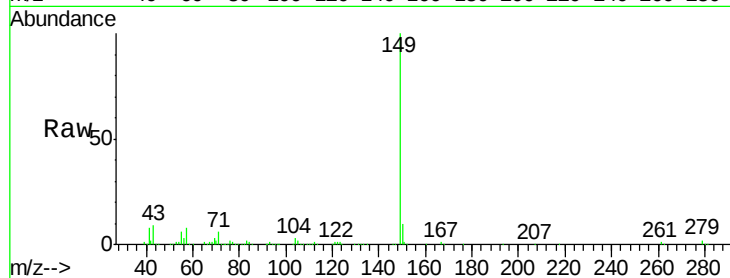
Tgt Ion:149 Resp: 385314

Ion Ratio Lower Upper

149 100

167 1.5 0.0 0.0#

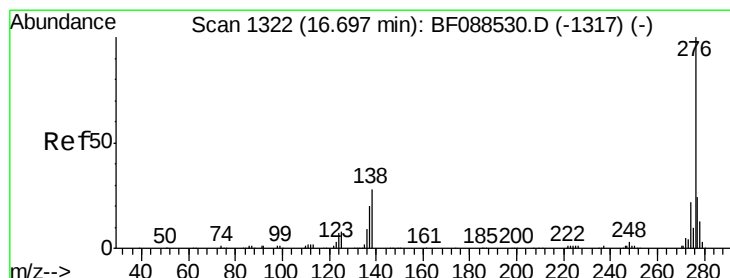
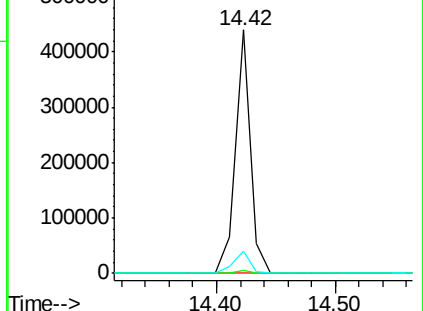
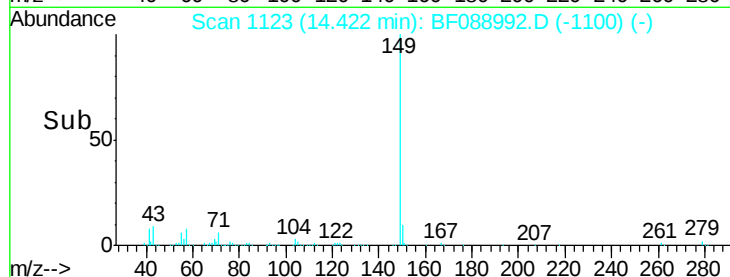
43 9.4 0.0 0.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0



#85

Indeno(1,2,3-cd)pyrene

Concen: 38.55 ng

RT: 16.46 min Scan# 1301

Delta R.T. -0.05 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

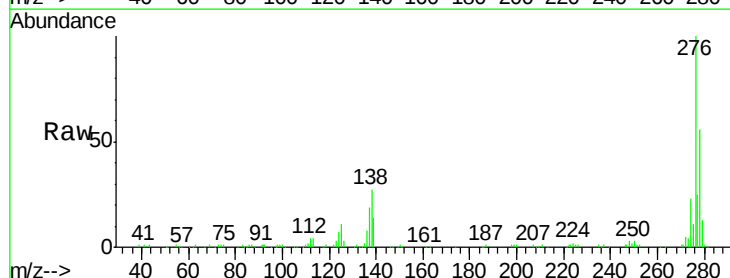
Tgt Ion:276 Resp: 268623

Ion Ratio Lower Upper

276 100

138 29.5 0.0 0.0#

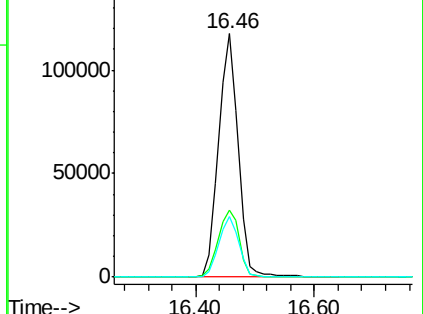
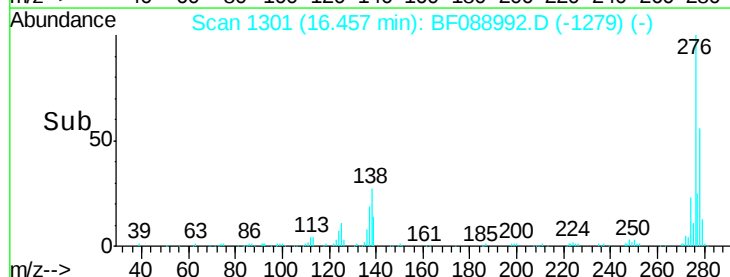
277 25.4 0.0 0.0#

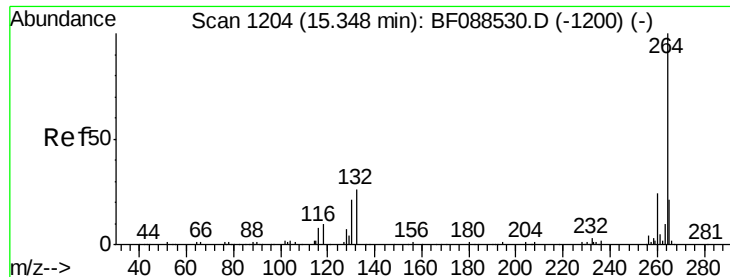


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

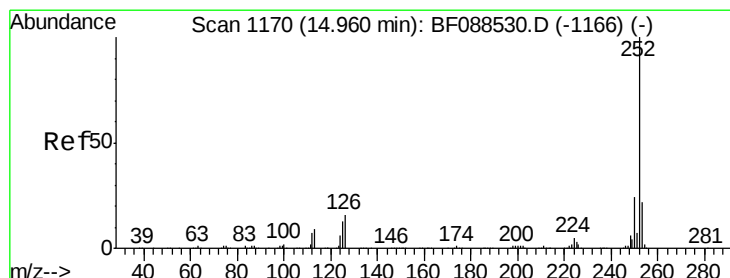
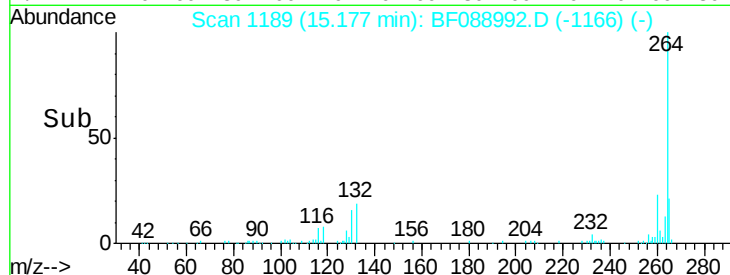
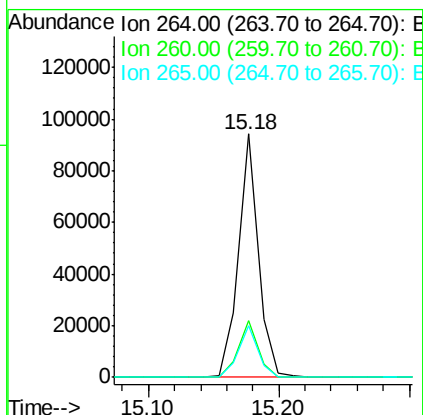
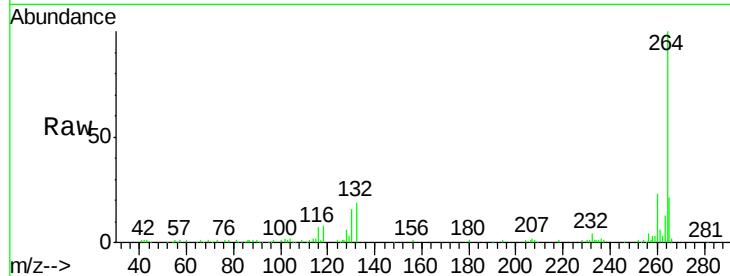




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.18 min Scan# 1189  
Delta R.T. -0.03 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

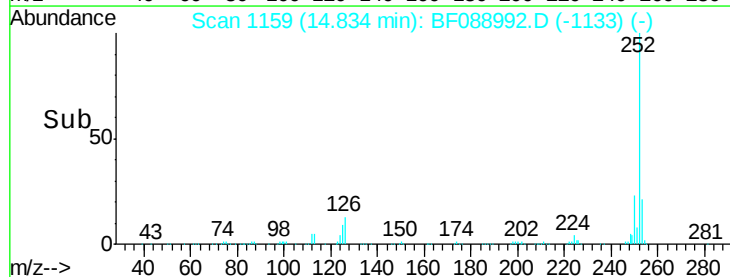
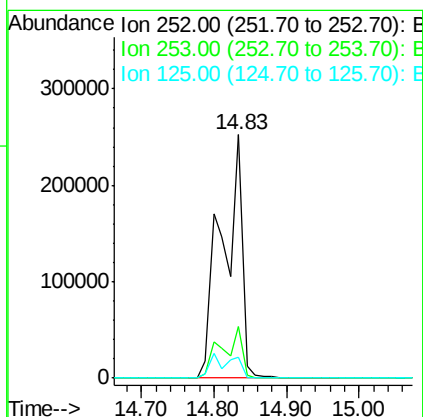
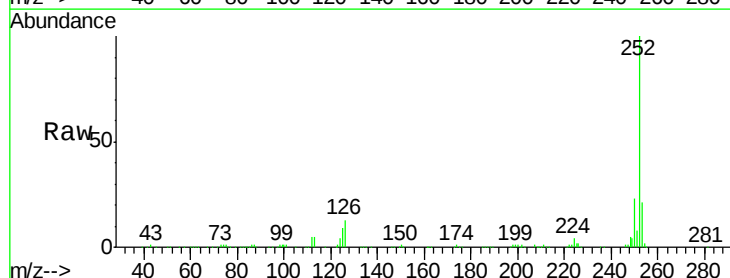
Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

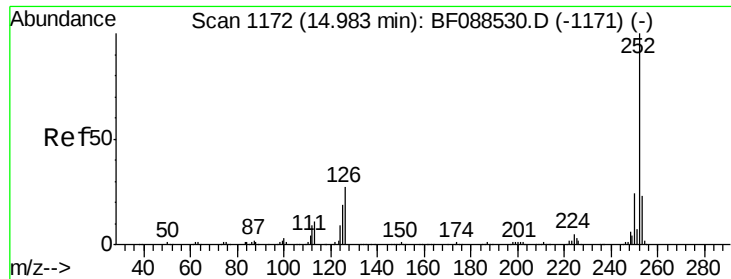
Tgt Ion: 264 Resp: 99272  
Ion Ratio Lower Upper  
264 100  
260 23.1 19.2 28.8  
265 21.2 16.9 25.3



#87  
Benzo(b)fluoranthene  
Concen: 78.63 ng  
RT: 14.83 min Scan# 1159  
Delta R.T. -0.00 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion: 252 Resp: 489649  
Ion Ratio Lower Upper  
252 100  
253 21.4 17.4 26.2  
125 8.7 7.1 10.7





#88

Benzo(k)fluoranthene

Concen: 90.32 ng

RT: 14.83 min Scan# 1159

Delta R.T. -0.03 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

Instrument :

BNA\_F

ClientSampleId :

PB92031BS

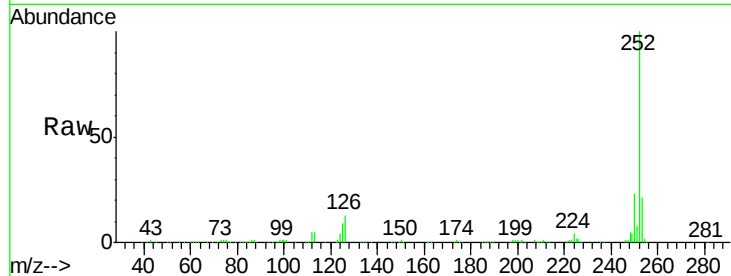
Tgt Ion:252 Resp: 489649

Ion Ratio Lower Upper

252 100

253 21.4 18.0 27.0

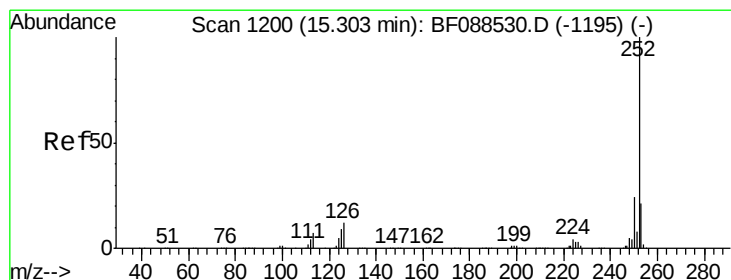
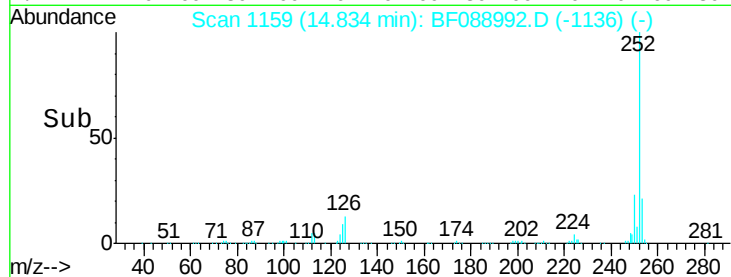
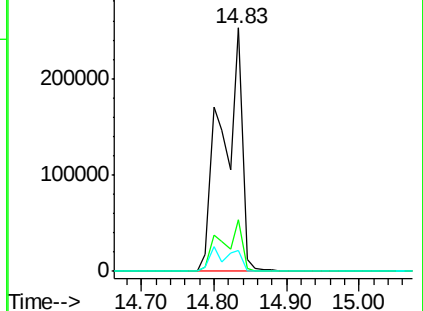
125 8.7 11.2 16.8#



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: 43.61 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.05 min

Lab File: BF088992.D

Acq: 14 Jul 2016 18:16

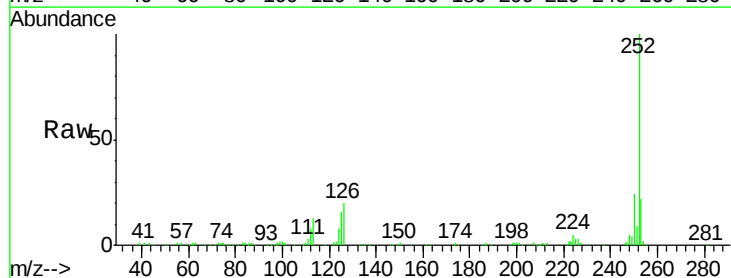
Tgt Ion:252 Resp: 229952

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

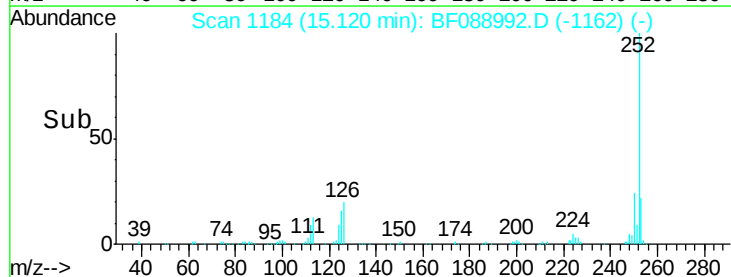
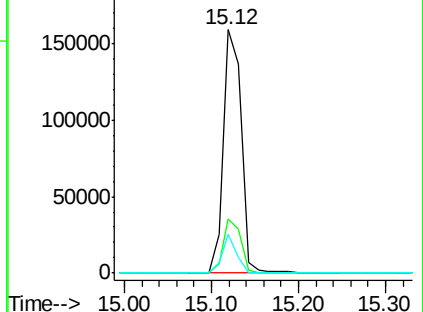
125 15.8 12.5 18.7

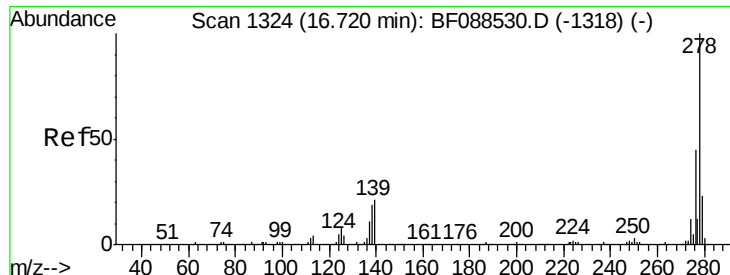


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



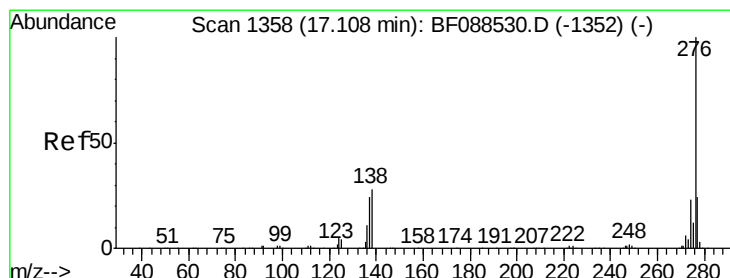
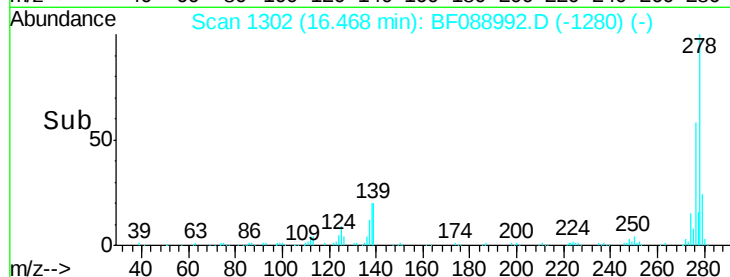
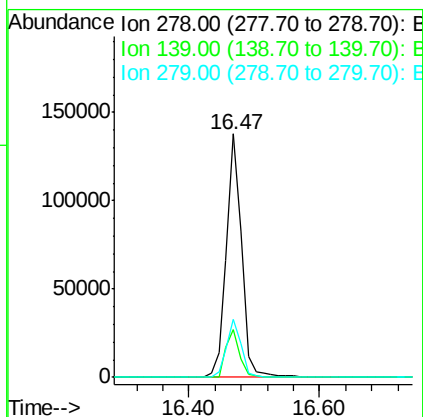
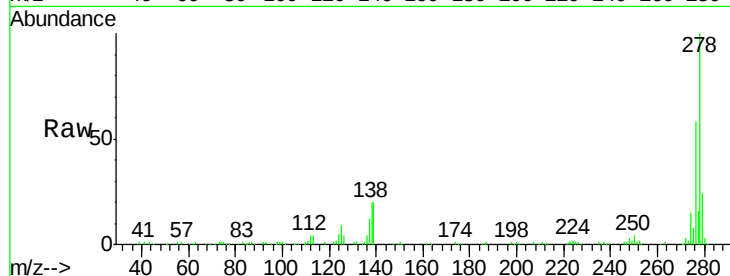


#90  
Dibenzo(a,h)anthracene  
Concen: 50.83 ng  
RT: 16.47 min Scan# 1302  
Delta R.T. -0.05 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB92031BS

Tgt Ion: 278 Resp: 223782  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 19.6  | 15.7  | 23.5  |
| 279 | 23.6  | 19.4  | 29.2  |



#91  
Benzo(g,h,i)perylene  
Concen: 50.09 ng  
RT: 16.83 min Scan# 1334  
Delta R.T. -0.06 min  
Lab File: BF088992.D  
Acq: 14 Jul 2016 18:16

Tgt Ion: 276 Resp: 228227  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 23.3  | 18.9  | 28.3  |
| 138 | 28.0  | 21.4  | 32.2  |

