

Data Path : Z:\HPCHEM1\BNA N\DATA\BN032118\  
 Data File : BN000514.D  
 Acq On : 21 Mar 2018 11:52  
 Operator : JU/SJ  
 Sample : J1905-15  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Mar 22 01:34:23 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN031918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 22 01:34:06 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.43  | 152  | 217495   | 20.00 | ng/ul | 0.02     |
| 18) Naphthalene-d8        | 11.29 | 136  | 572521   | 20.00 | ng/ul | 0.04     |
| 35) Acenaphthene-d10      | 15.06 | 164  | 346335   | 20.00 | ng/ul | 0.02     |
| 61) Phenanthrene-d10      | 17.83 | 188  | 3059     | 20.00 | ng/ul | 0.07     |
| 75) Chrysene-d12          | 21.98 | 240  | 901      | 20.00 | ng/ul | 0.10     |
| 83) Perylene-d12          | 24.38 | 264  | 631510   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |          |       |      |
|--------------------------------|-------|-----|---------|----------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.59  | 96  | 37596   | 6.17     | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.57  | 99  | 13596   | 0.67     | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.73  | 67  | 441554  | 37.73    | ng/ul | 0.01 |
| 9) 2-Chlorophenol-d4           | 7.98  | 132 | 422467  | 27.54    | ng/ul | 0.05 |
| 13) 4-Methylphenol-d8          | 9.15  | 113 | 5092    | 0.32     | ng/ul | 0.03 |
| 19) Nitrobenzene-d5            | 9.63  | 128 | 239043  | 51.41    | ng/ul | 0.03 |
| 22) 2-Nitrophenol-d4           | 10.36 | 143 | 207581  | 43.09    | ng/ul | 0.04 |
| 26) 2,4-Dichlorophenol-d3      | 10.96 | 165 | 443990  | 51.42    | ng/ul | 0.09 |
| 29) 4-Chloroaniline-d4         | 11.38 | 131 | 410639  | 46.33    | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.45 | 166 | 902302  | 32.98    | ng/ul | 0.03 |
| 46) Acenaphthylene-d8          | 14.76 | 160 | 1292020 | 35.79    | ng/ul | 0.03 |
| 51) 4-Nitrophenol-d4           | 15.26 | 143 | 93887   | 18.48    | ng/ul | 0.04 |
| 57) Fluorene-d10               | 16.06 | 176 | 856216  | 36.72    | ng/ul | 0.04 |
| 62) 4,6-Dinitro-2-methylphenol | 16.21 | 200 | 341960  | 19519.10 | ng/ul | 0.08 |
| 70) Anthracene-d10             | 17.90 | 188 | 616474  | 4192.68  | ng/ul | 0.04 |
| 76) Pyrene-d10                 | 20.24 | 212 | 5076    | 102.05   | ng/ul | 0.12 |
| 87) Benzo(a)pyrene-d12         | 24.22 | 264 | 1033336 | 34.67    | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |         |         | Ovalue |    |
|--------------------------------|-------|-----|---------|---------|--------|----|
| 4) Benzaldehyde                | 7.55  | 77  | 317321  | 38.357  | ng/ul# | 1  |
| 8) Bis(2-Chloroethyl)ether     | 7.80  | 93  | 34295   | 2.088   | ng/ul# | 1  |
| 11) 2-Methylphenol             | 8.92  | 108 | 20329   | 1.339   | ng/ul# | 1  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.98  | 45  | 95329   | 5.385   | ng/ul# | 1  |
| 14) Acetophenone               | 9.40  | 105 | 566332  | 24.105  | ng/ul  | 90 |
| 15) N-Nitroso-di-n-propylamine | 9.20  | 70  | 279507  | 22.746  | ng/ul# | 49 |
| 16) 4-Methylphenol             | 9.30  | 108 | 32314   | 1.988   | ng/ul  | 87 |
| 17) Hexachloroethane           | 9.56  | 117 | 564110  | 86.310  | ng/ul# | 1  |
| 20) Nitrobenzene               | 9.64  | 77  | 85340   | 7.435   | ng/ul# | 36 |
| 21) Isophorone                 | 10.21 | 82  | 6133585 | 280.315 | ng/ul# | 88 |
| 23) 2-Nitrophenol              | 10.37 | 139 | 28217   | 5.447   | ng/ul# | 1  |
| 24) 2,4-Dimethylphenol         | 10.48 | 107 | 213156  | 19.100  | ng/ul# | 61 |
| 25) Bis(2-Chloroethoxy)methane | 10.71 | 93  | 310819  | 22.491  | ng/ul# | 42 |
| 27) 2,4-Dichlorophenol         | 10.91 | 162 | 14624   | 1.745   | ng/ul# | 1  |
| 28) Naphthalene                | 11.34 | 128 | 2019817 | 67.181  | ng/ul  | 96 |
| 30) 4-Chloroaniline            | 11.47 | 127 | 42072   | 4.677   | ng/ul# | 4  |
| 32) Caprolactam                | 12.15 | 113 | 75724   | 24.717  | ng/ul# | 1  |
| 33) 4-Chloro-3-methylphenol    | 12.55 | 107 | 60028   | 6.093   | ng/ul# | 36 |
| 34) 2-Methylnaphthalene        | 12.92 | 142 | 3386222 | 168.697 | ng/ul  | 99 |
| 38) 2,4,6-Trichlorophenol      | 13.55 | 196 | 204999  | 29.046  | ng/ul  | 97 |
| 39) 2,4,5-Trichlorophenol      | 13.55 | 196 | 242866  | 33.002  | ng/ul  | 96 |
| 40) 1,1'-Biophenyl             | 13.90 | 154 | 422214  | 14.321  | ng/ul# | 77 |
| 41) 2-Chloronaphthalene        | 13.98 | 162 | 37185   | 1.636   | ng/ul# | 1  |

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 Quant Title : SVOA CALIBRATION  
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 Response via : Initial Calibration

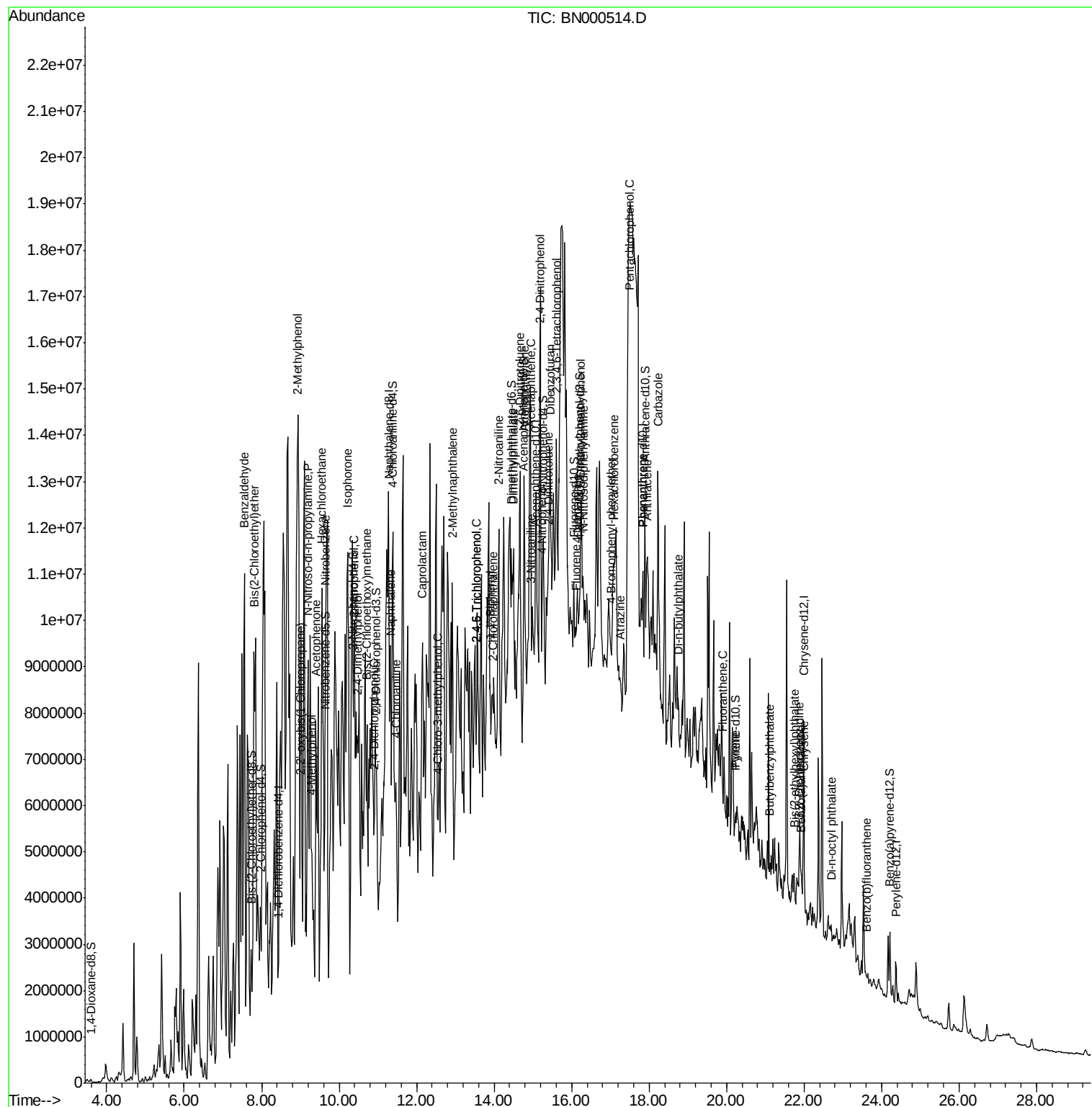
| Internal Standards             | R.T.  | QIon | Response | Conc       | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------------|--------|----------|
| -----                          |       |      |          |            |        |          |
| 42) 2-Nitroaniline             | 14.12 | 65   | 72658    | 10.552     | ng/ul# | 1        |
| 44) Dimethylphthalate          | 14.50 | 163  | 51368    | 1.898      | ng/ul# | 13       |
| 45) 2,6-Dinitrotoluene         | 14.66 | 165  | 43227    | 7.926      | ng/ul# | 52       |
| 47) Acenaphthylene             | 14.78 | 152  | 86637    | 2.450      | ng/ul# | 1        |
| 48) 3-Nitroaniline             | 14.96 | 138  | 19728    | 3.747      | ng/ul# | 44       |
| 49) Acenaphthene               | 14.95 | 153  | 26492    | 1.099      | ng/ul  | 92       |
| 50) 2,4-Dinitrophenol          | 15.17 | 184  | 49918    | 19.400     | ng/ul# | 1        |
| 52) 4-Nitrophenol              | 15.23 | 109  | 283140   | 72.115     | ng/ul# | 17       |
| 53) Dibenzofuran               | 15.46 | 168  | 153783   | 4.696      | ng/ul# | 1        |
| 54) 2,4-Dinitrotoluene         | 15.40 | 165  | 19407    | 2.510      | ng/ul# | 74       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.61 | 232  | 1015698  | 180.741    | ng/ul# | 86       |
| 58) Fluorene                   | 16.11 | 166  | 358602   | 13.780     | ng/ul# | 78       |
| 60) 4-Nitroaniline             | 16.14 | 138  | 100636   | 17.012     | ng/ul# | 84       |
| 63) 4,6-Dinitro-2-methylphenol | 16.22 | 198  | 953049   | 51529.180  | ng/ul# | 40       |
| 64) N-Nitrosodiphenylamine     | 16.30 | 169  | 258884   | 2568.940   | ng/ul# | 56       |
| 65) 4-Bromophenyl-phenylether  | 17.02 | 248  | 510      | 16.357     | ng/ul# | 1        |
| 66) Hexachlorobenzene          | 17.10 | 284  | 9498     | 288.492    | ng/ul# | 1        |
| 67) Atrazine                   | 17.27 | 200  | 1461     | 48.069     | ng/ul# | 1        |
| 68) Pentachlorophenol          | 17.50 | 266  | 9750301  | 560973.274 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.84 | 178  | 38507    | 218.506    | ng/ul# | 1        |
| 71) Anthracene                 | 17.93 | 178  | 1640900  | 9080.804   | ng/ul# | 93       |
| 72) Carbazole                  | 18.23 | 167  | 306338   | 1976.922   | ng/ul# | 65       |
| 73) Di-n-butylphthalate        | 18.77 | 149  | 6452     | 30.618     | ng/ul# | 1        |
| 74) Fluoranthene               | 19.90 | 202  | 8338     | 47.614     | ng/ul# | 1        |
| 77) Pyrene                     | 20.22 | 202  | 28156    | 427.848    | ng/ul# | 1        |
| 78) Butylbenzylphthalate       | 21.11 | 149  | 4997     | 152.868    | ng/ul# | 1        |
| 79) 3,3'-Dichlorobenzidine     | 21.87 | 252  | 1478     | 83.965     | ng/ul# | 25       |
| 80) Benzo(a)anthracene         | 21.93 | 228  | 86489    | 1440.700   | ng/ul# | 73       |
| 81) Bis(2-ethylhexyl)phthalate | 21.75 | 149  | 217731   | 4587.988   | ng/ul  | 95       |
| 82) Chrysene                   | 22.01 | 228  | 1242     | 22.069     | ng/ul# | 1        |
| 84) Di-n-octyl phthalate       | 22.71 | 149  | 128054   | 2.409      | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 23.62 | 252  | 46870    | 1.175      | ng/ul# | 20       |
| -----                          |       |      |          |            |        |          |

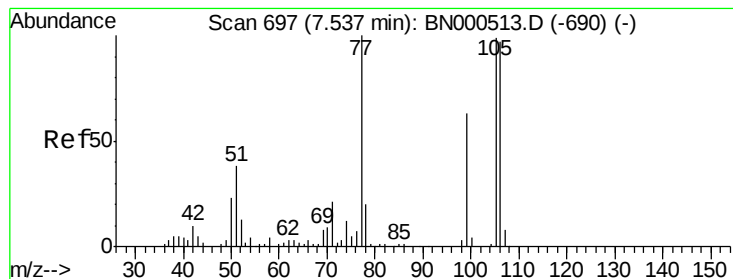
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 38.357 ng/ul

RT: 7.55 min Scan# 699

Delta R.T. 0.01 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampled :

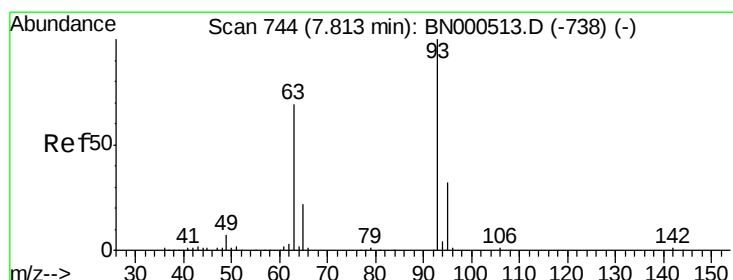
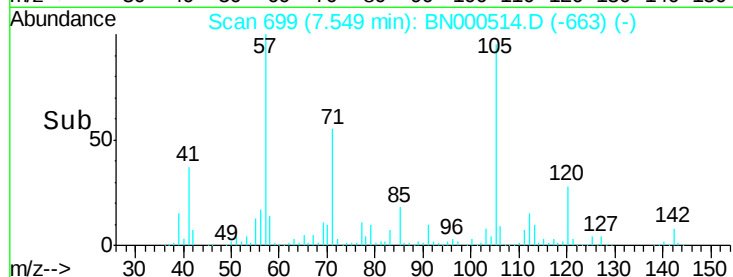
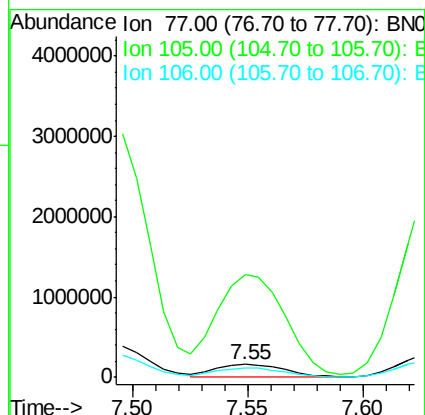
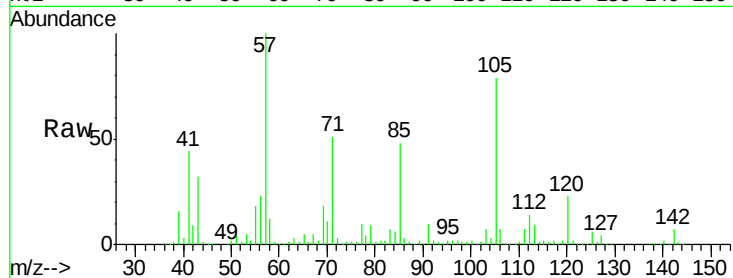
Tot Ion: 77 Resp: 317321

Ion Ratio Lower Upper

77 100

105 799.4 71.0 106.6#

106 72.8 69.5 104.3



#8

Bis(2-Chloroethyl)ether

Concen: 2.088 ng/ul

RT: 7.80 min Scan# 742

Delta R.T. -0.01 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

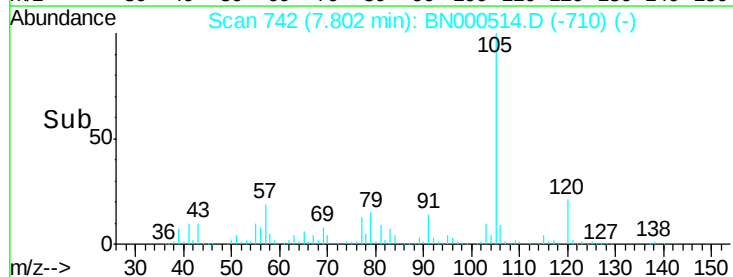
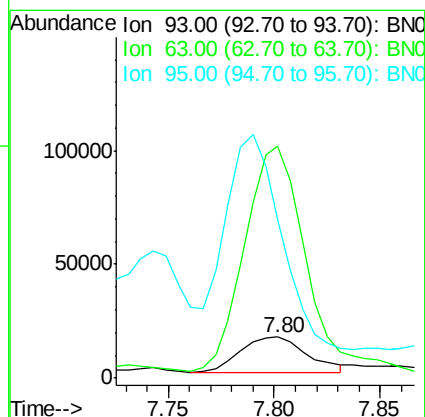
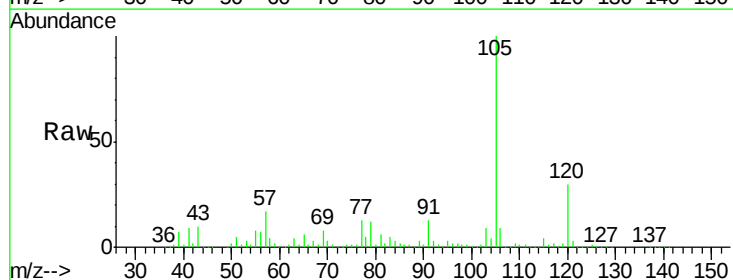
Tgt Ion: 93 Resp: 34295

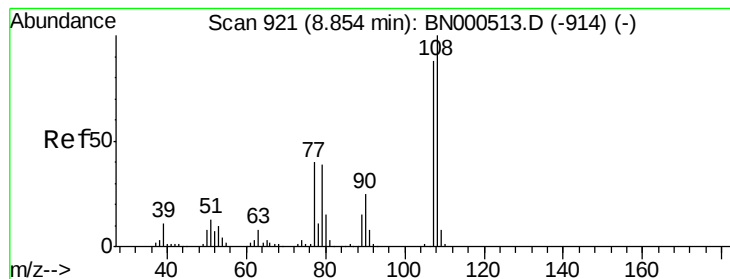
Ion Ratio Lower Upper

93 100

63 563.4 59.4 89.2#

95 386.7 26.4 39.6#





#11

2-Methylphenol

Concen: 1.339 ng/ul

RT: 8.92 min Scan# 932

Delta R.T. 0.07 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

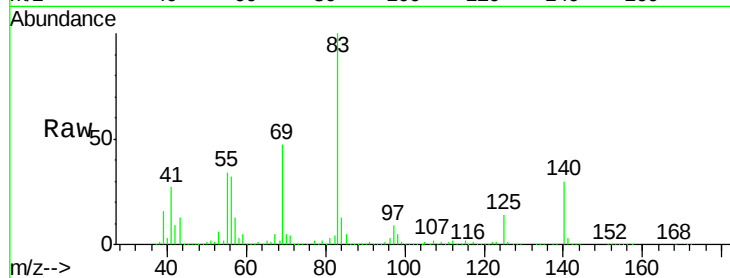
ClientSampled :

Tot Ion:108 Resp: 20329

Ion Ratio Lower Upper

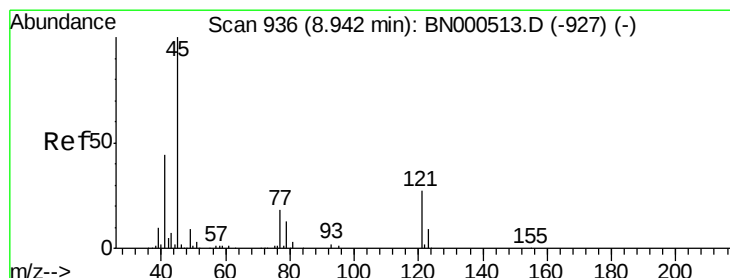
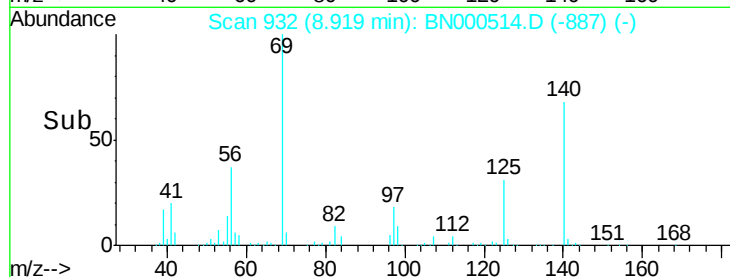
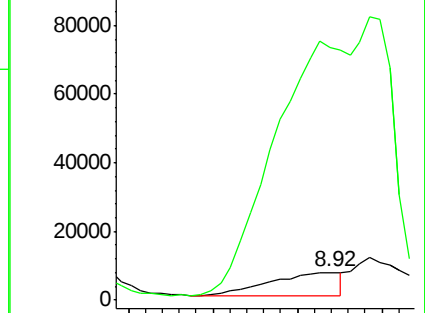
108 100

107 915.6 74.1 111.1#



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#12

2,2'-oxybis(1-Chloropropane)

Concen: 5.385 ng/ul

RT: 8.98 min Scan# 943

Delta R.T. 0.04 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

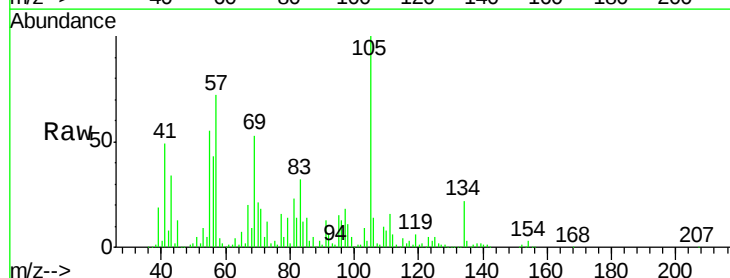
Tgt Ion: 45 Resp: 95329

Ion Ratio Lower Upper

45 100

77 119.5 12.5 18.7#

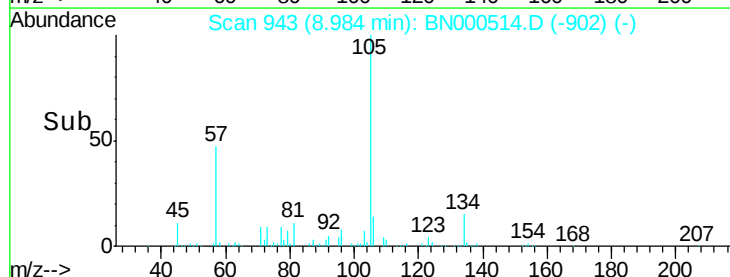
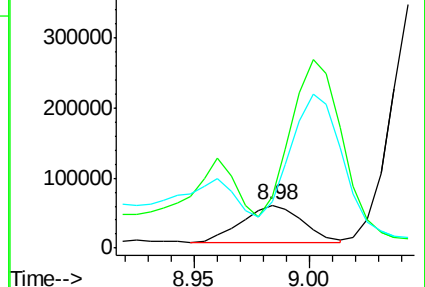
79 107.9 9.4 14.2#

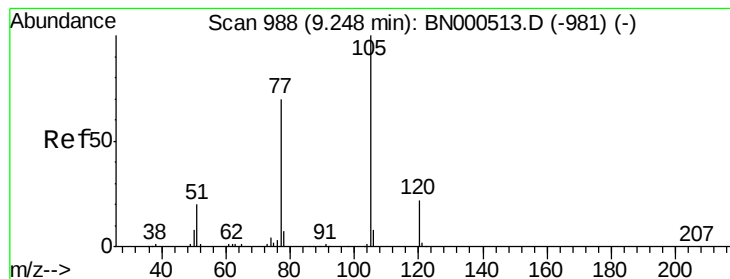


Abundance Ion 45.00 (44.70 to 45.70): BNC

Ion 77.00 (76.70 to 77.70): BNC

Ion 79.00 (78.70 to 79.70): BNC





#14

Acetophenone

Concen: 24.105 ng/ul

RT: 9.40 min Scan# 1014

Delta R.T. 0.15 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

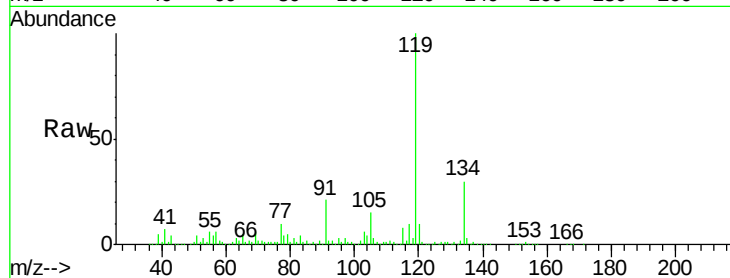
Tot Ion:105 Resp: 566332

Ion Ratio Lower Upper

105 100

77 68.9 63.2 94.8

51 26.9 19.8 29.8

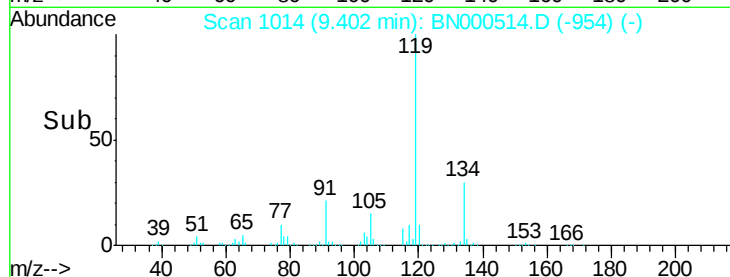


Abundance Ion 105.00 (104.70 to 105.70): E

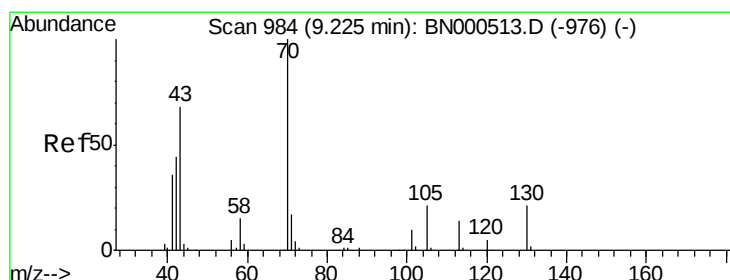
Ion 77.00 (76.70 to 77.70): BNC

Ion 51.00 (50.70 to 51.70): BNC

Time-->



Time-->



#15

N-Nitroso-di-n-propylamine

Concen: 22.746 ng/ul

RT: 9.20 min Scan# 979

Delta R.T. -0.03 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Tgt Ion: 70 Resp: 279507

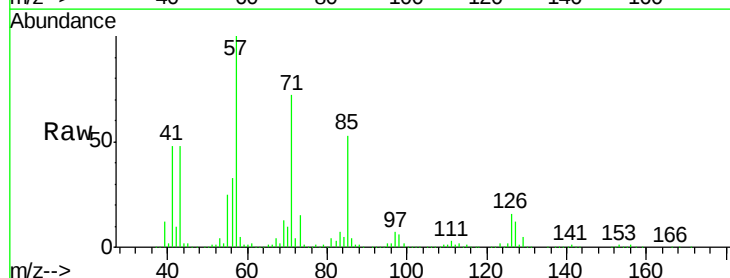
Ion Ratio Lower Upper

70 100

42 94.8 40.2 60.4#

101 4.9 7.7 11.5#

130 4.0 17.8 26.6#



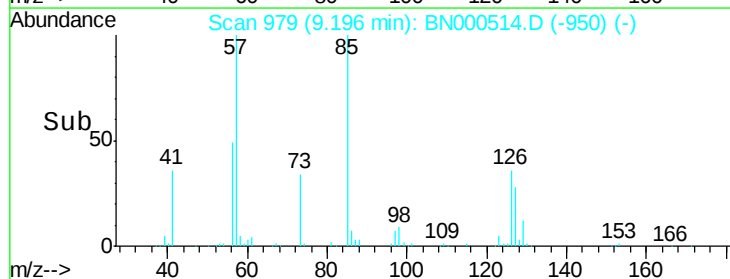
Abundance Ion 70.00 (69.70 to 70.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

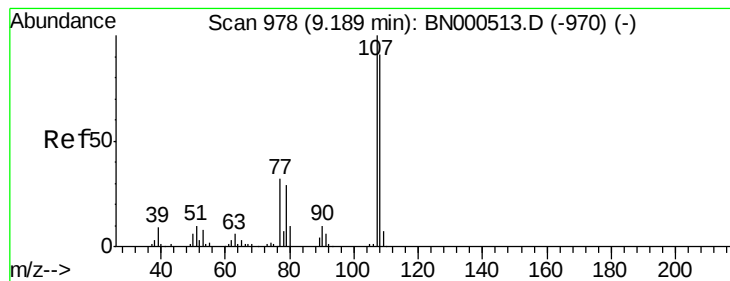
Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

Time-->



Time-->



#16

4-Methylphenol

Concen: 1.988 ng/ul

RT: 9.30 min Scan# 996

Delta R.T. 0.11 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

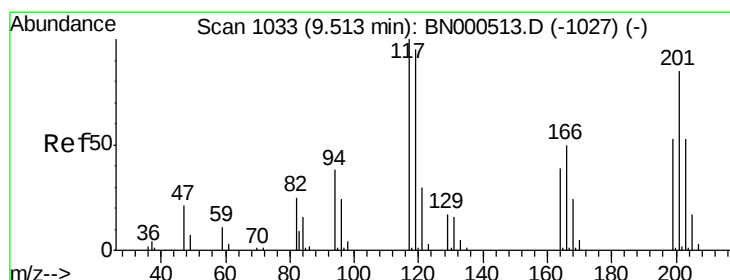
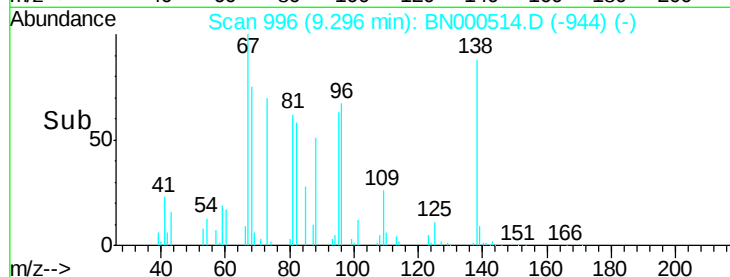
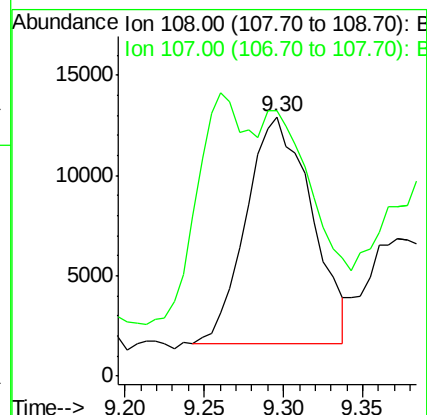
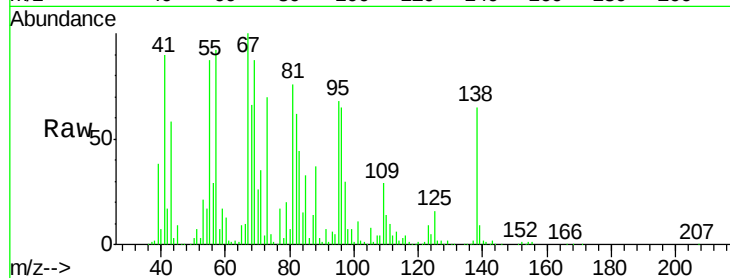
ClientSampled :

Tot Ion:108 Resp: 32314

Ion Ratio Lower Upper

108 100

107 102.6 93.6 140.4



#17

Hexachloroethane

Concen: 86.310 ng/ul

RT: 9.56 min Scan# 1041

Delta R.T. 0.05 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

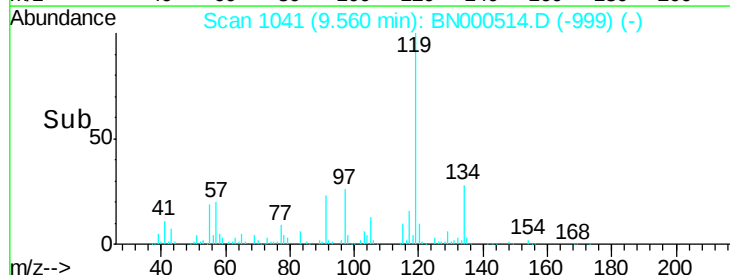
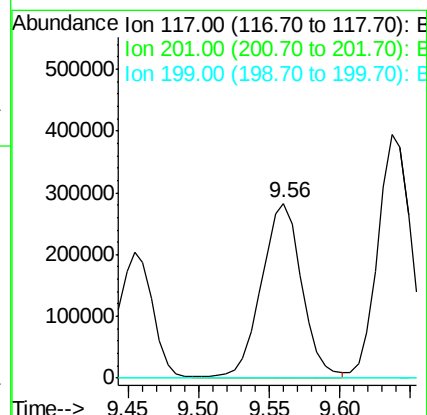
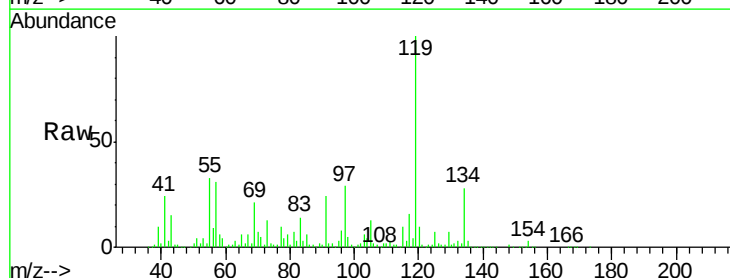
Tgt Ion:117 Resp: 564110

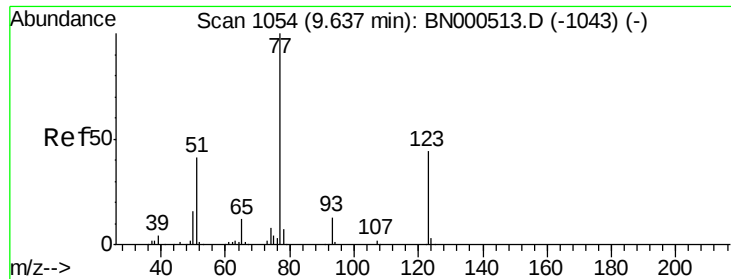
Ion Ratio Lower Upper

117 100

201 0.0 96.1 144.1#

199 0.0 59.7 89.5#

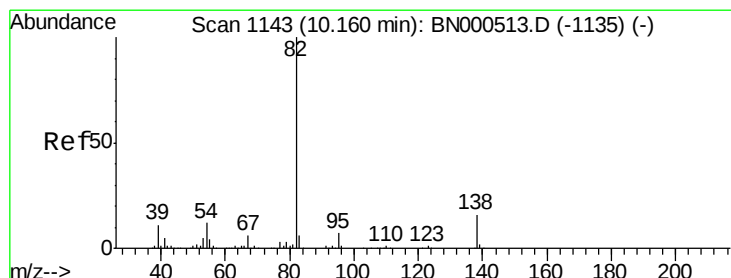
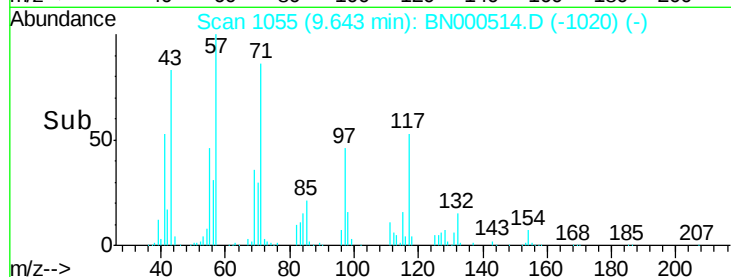
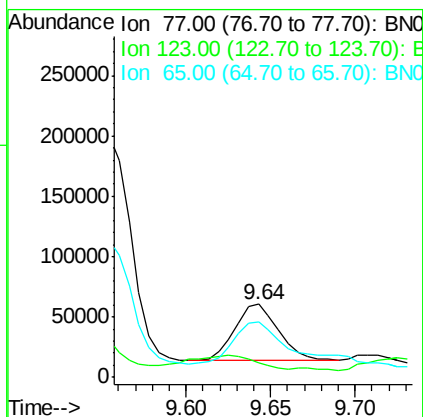
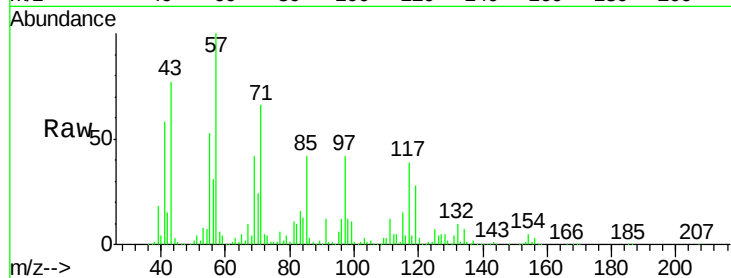




#20  
Nitrobenzene  
Concen: 7.435 ng/ul  
RT: 9.64 min Scan# 1055  
Delta R.T. 0.01 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

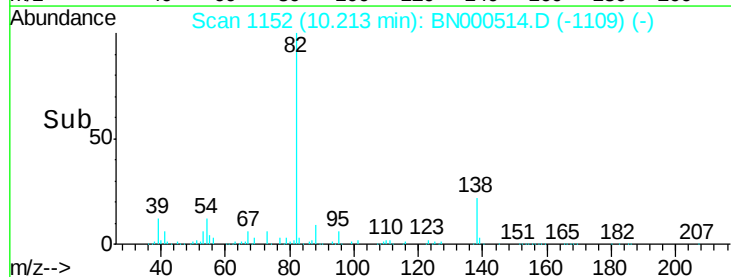
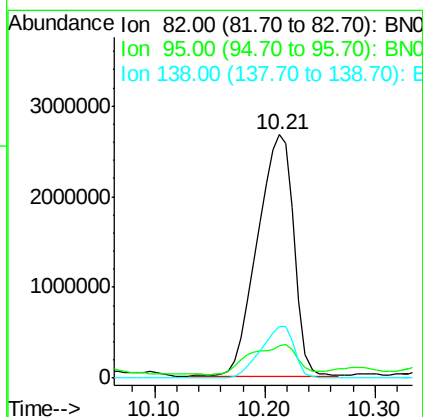
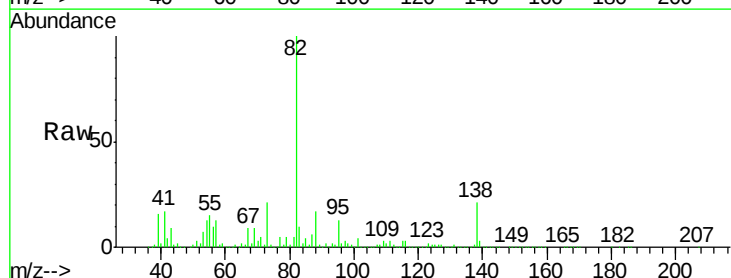
Instrument :  
BNA\_N  
ClientSampleId :

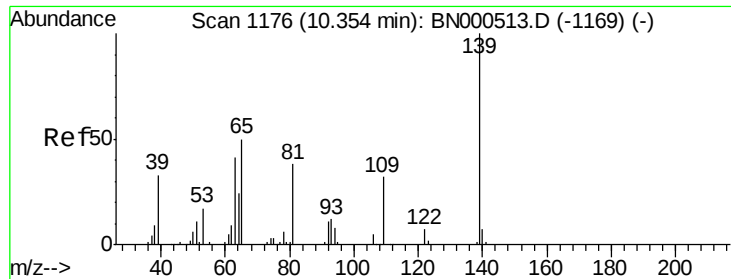
Tot Ion: 77 Resp: 85340  
Ion Ratio Lower Upper  
77 100  
123 19.5 31.8 47.8#  
65 75.3 10.6 16.0#



#21  
Isophorone  
Concen: 280.315 ng/ul  
RT: 10.21 min Scan# 1152  
Delta R.T. 0.05 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

Tgt Ion: 82 Resp: 6133585  
Ion Ratio Lower Upper  
82 100  
95 13.1 6.1 9.1#  
138 21.2 13.5 20.3#

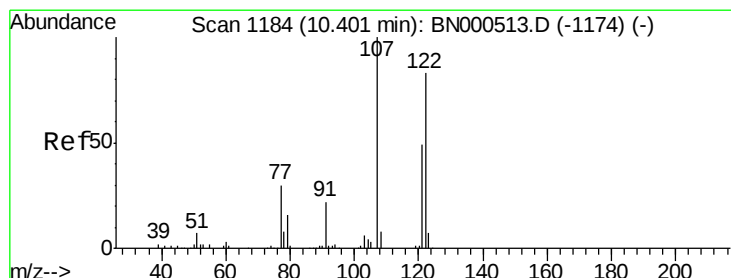
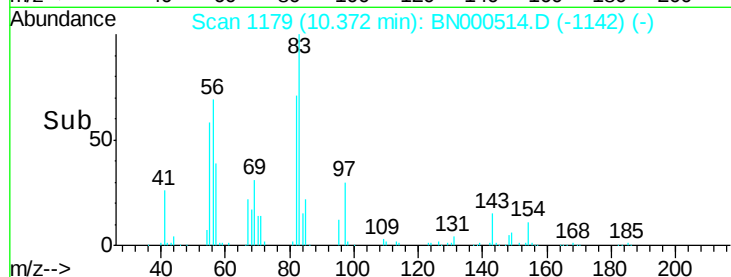
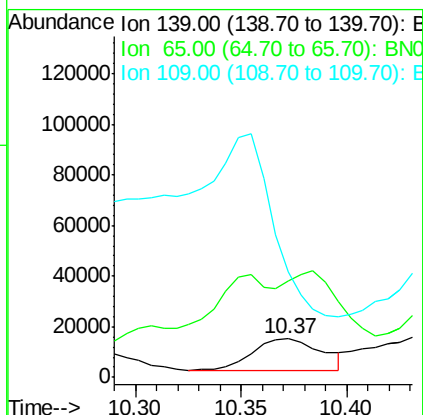
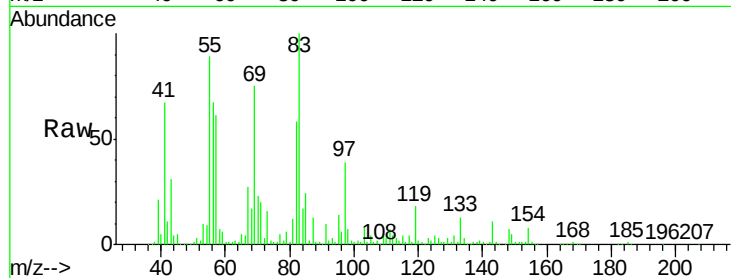




#23  
 2-Nitrophenol  
 Concen: 5.447 ng/ul  
 RT: 10.37 min Scan# 1179  
 Delta R.T. 0.02 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

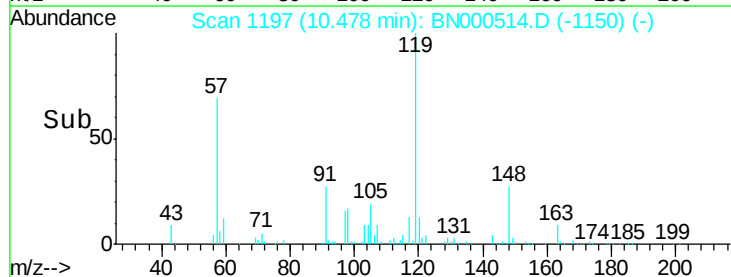
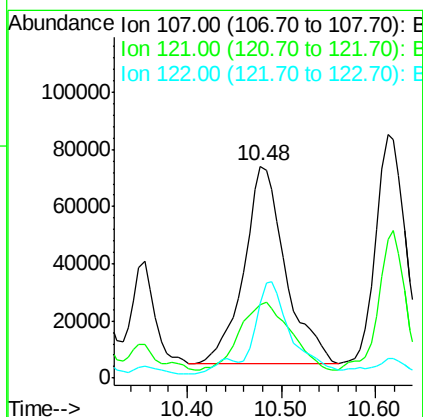
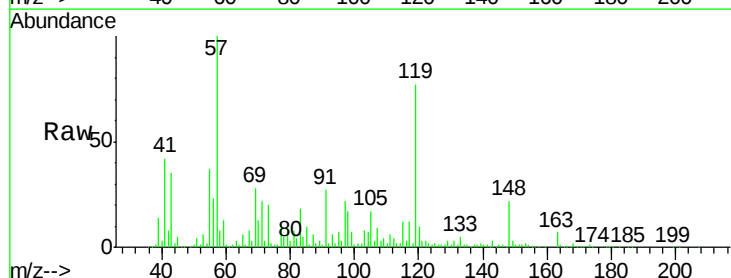
Instrument :  
 BNA\_N  
 ClientSampleId :

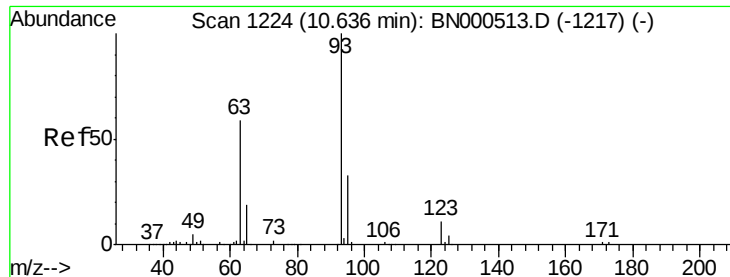
Tot Ion:139 Resp: 28217  
 Ion Ratio Lower Upper  
 139 100  
 65 250.2 45.3 67.9#  
 109 271.4 27.7 41.5#



#24  
 2,4-Dimethylphenol  
 Concen: 19.100 ng/ul  
 RT: 10.48 min Scan# 1197  
 Delta R.T. 0.08 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

Tgt Ion:107 Resp: 213156  
 Ion Ratio Lower Upper  
 107 100  
 121 34.5 38.1 57.1#  
 122 35.5 63.8 95.8#

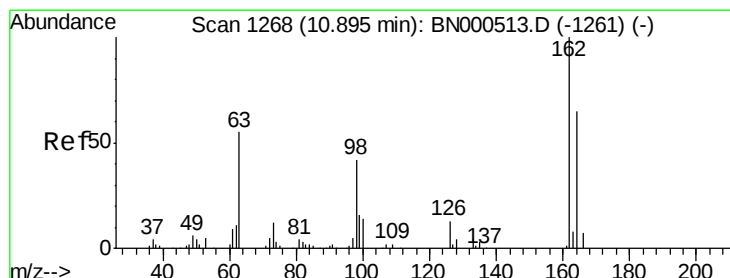
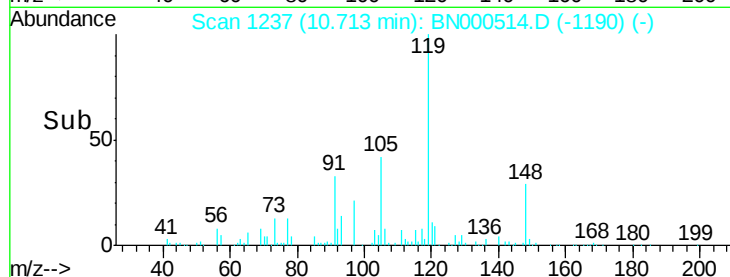
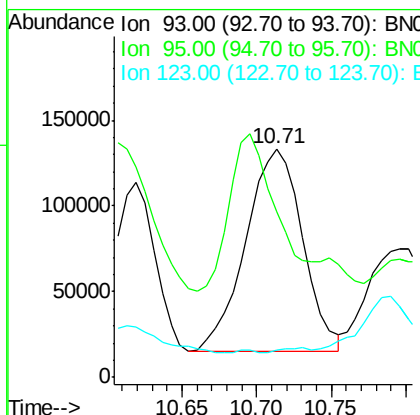
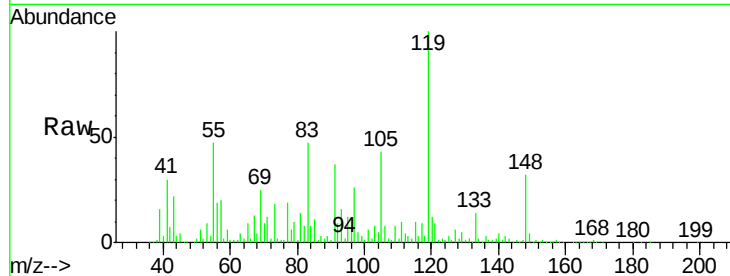




#25  
 Bis(2-Chloroethoxy)methane  
 Concen: 22.491 ng/ul  
 RT: 10.71 min Scan# 1237  
 Delta R.T. 0.08 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

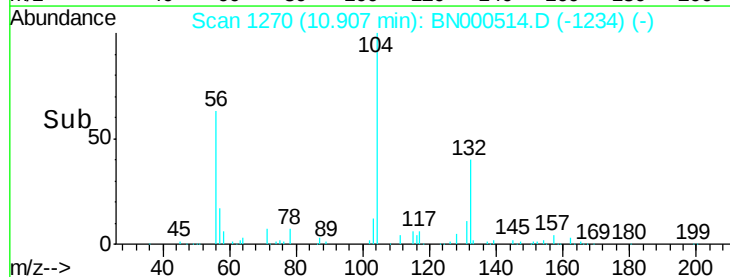
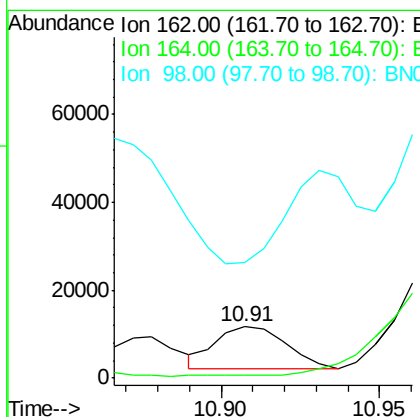
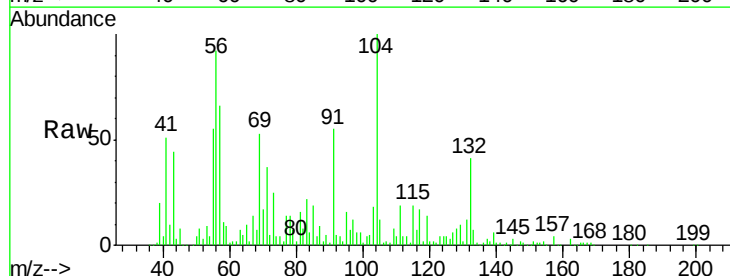
Instrument :  
 BNA\_N  
 ClientSampleId :

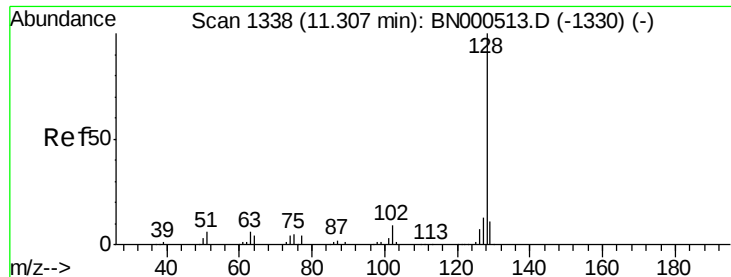
Tot Ion: 93 Resp: 310819  
 Ion Ratio Lower Upper  
 93 100  
 95 72.3 24.7 37.1#  
 123 11.8 8.2 12.2



#27  
 2,4-Dichlorophenol  
 Concen: 1.745 ng/ul  
 RT: 10.91 min Scan# 1270  
 Delta R.T. 0.01 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

Tgt Ion:162 Resp: 14624  
 Ion Ratio Lower Upper  
 162 100  
 164 6.1 52.0 78.0#  
 98 225.7 26.6 39.8#

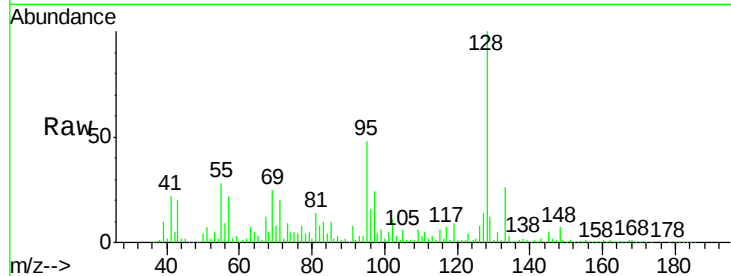




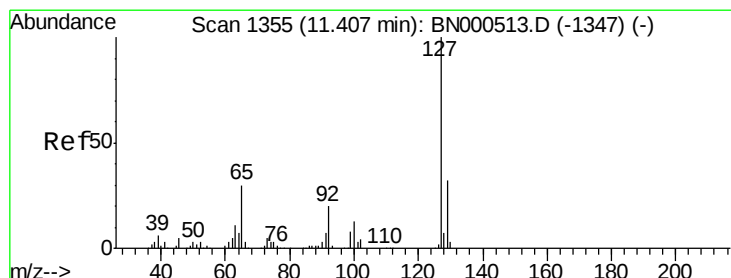
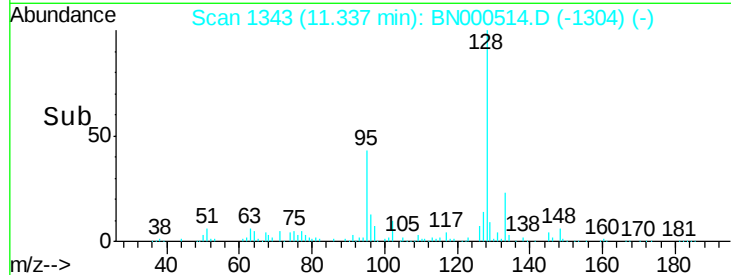
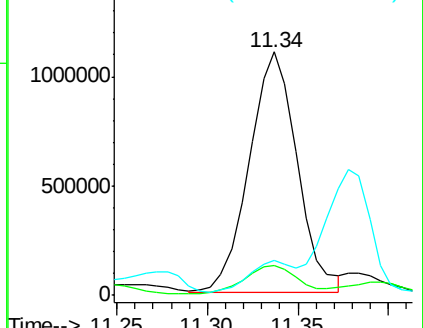
#28  
Naphthalene  
Concen: 67.181 ng/ul  
RT: 11.34 min Scan# 1343  
Delta R.T. 0.03 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

Instrument :  
BNA\_N  
ClientSampled :

Tot Ion:128 Resp: 2019817  
Ion Ratio Lower Upper  
128 100  
129 12.5 8.3 12.5  
127 14.4 10.8 16.2

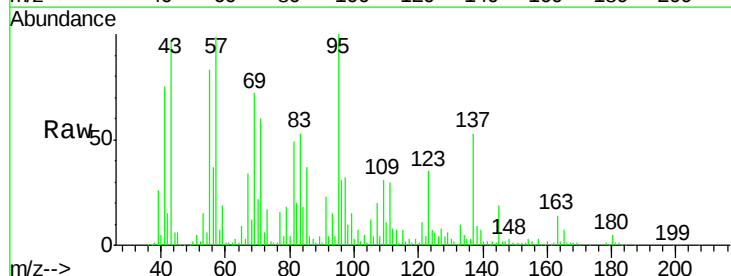


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

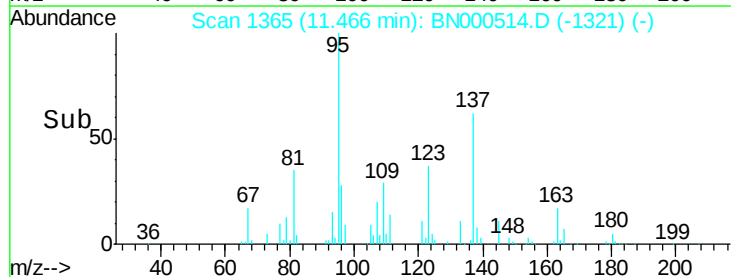
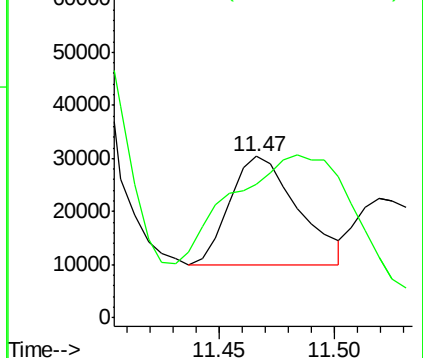


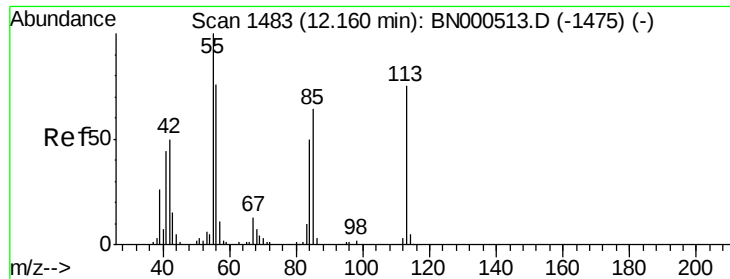
#30  
4-Chloroaniline  
Concen: 4.677 ng/ul  
RT: 11.47 min Scan# 1365  
Delta R.T. 0.06 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

Tgt Ion:127 Resp: 42072  
Ion Ratio Lower Upper  
127 100  
129 83.2 24.6 37.0#



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





#32

Caprolactam

Concen: 24.717 ng/ul

RT: 12.15 min Scan# 1481

Delta R.T. -0.01 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampled :

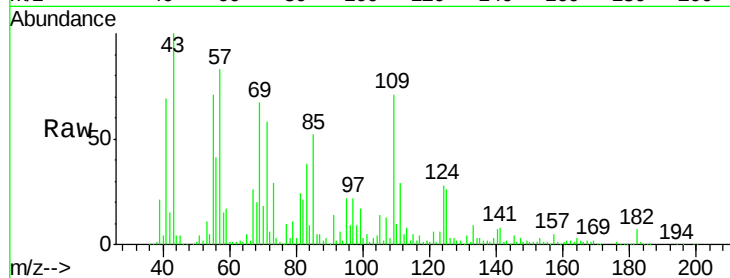
Tot Ion:113 Resp: 75724

Ion Ratio Lower Upper

113 100

55 937.2 131.7 197.5#

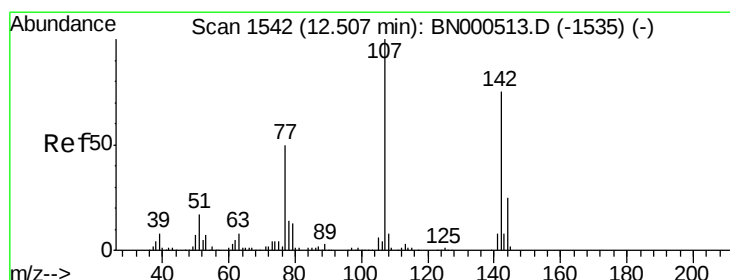
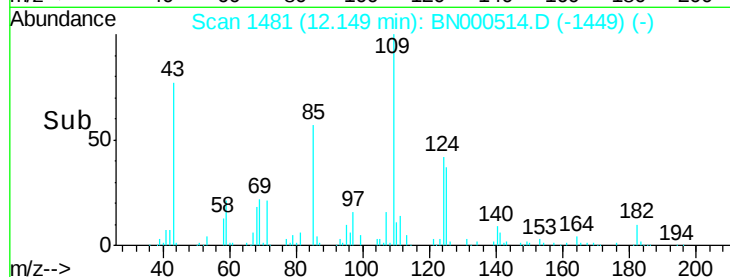
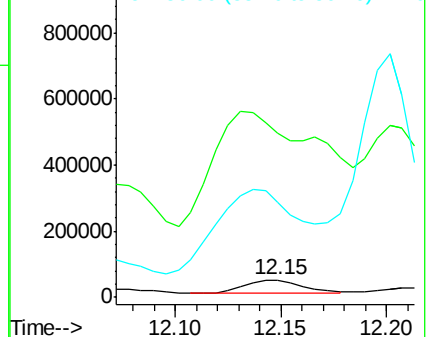
56 546.0 92.7 139.1#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNO

Ion 56.00 (55.70 to 56.70): BNO



#33

4-Chloro-3-methylphenol

Concen: 6.093 ng/ul

RT: 12.55 min Scan# 1549

Delta R.T. 0.04 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

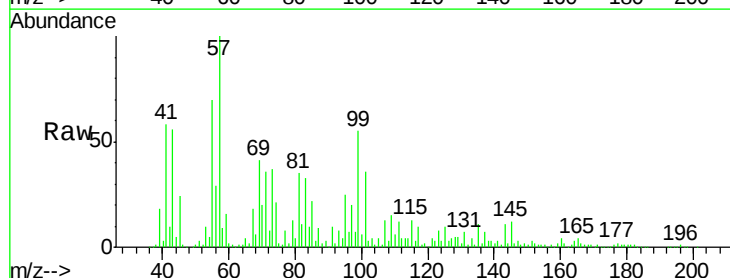
Tgt Ion:107 Resp: 60028

Ion Ratio Lower Upper

107 100

144 12.5 21.1 31.7#

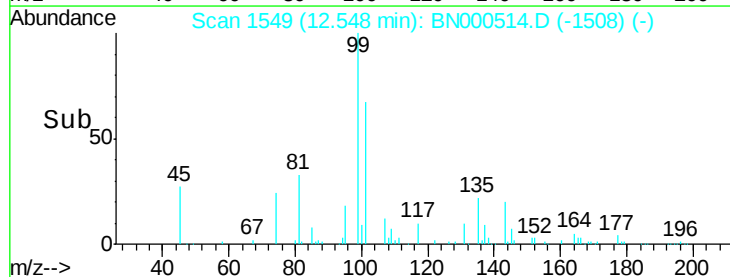
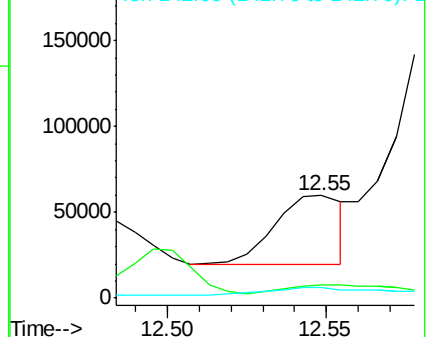
142 10.0 60.1 90.1#

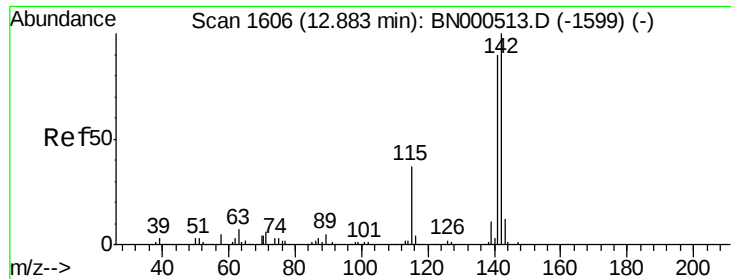


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

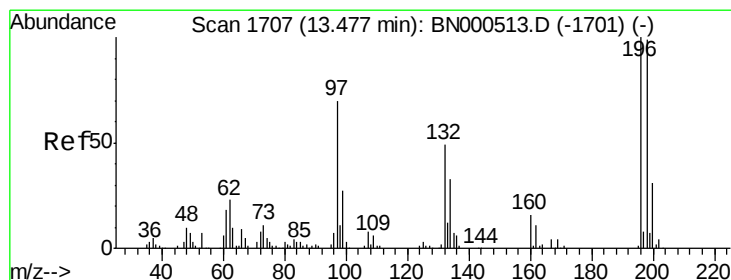
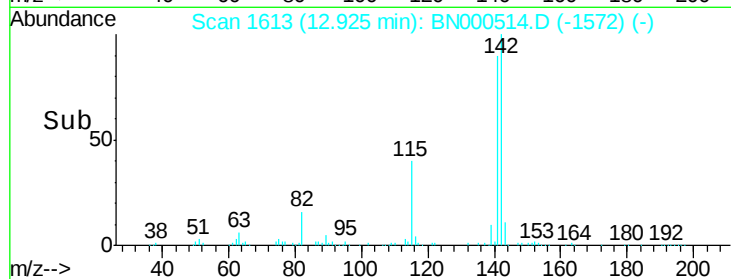
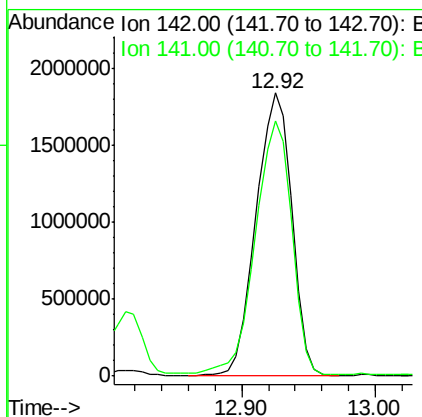
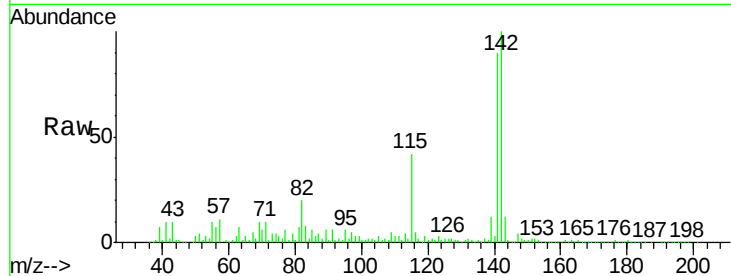




#34  
 2-Methylnaphthalene  
 Concen: 168.697 ng/ul  
 RT: 12.92 min Scan# 1613  
 Delta R.T. 0.04 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

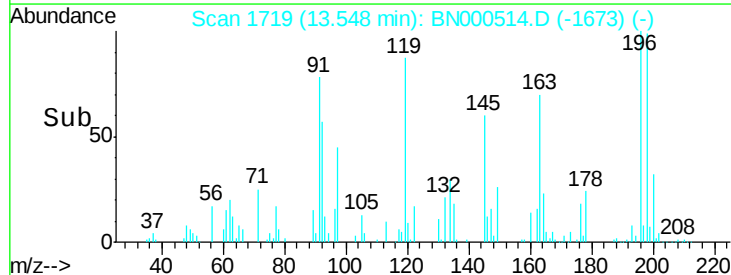
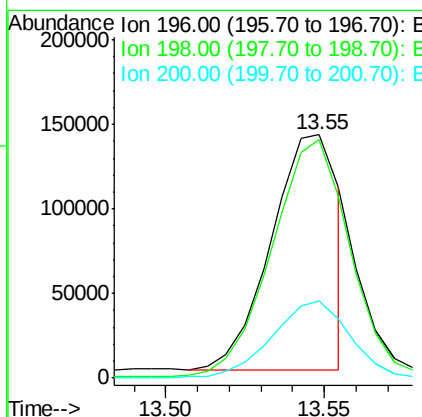
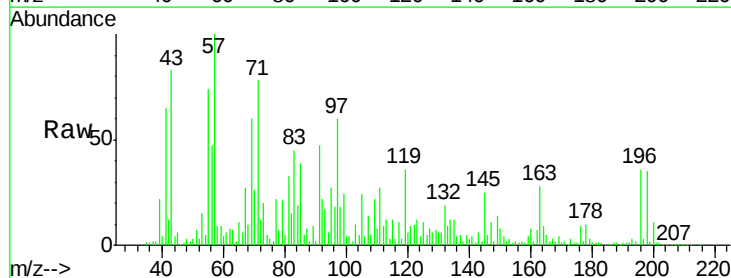
Instrument :  
 BNA\_N  
 ClientSampleId :

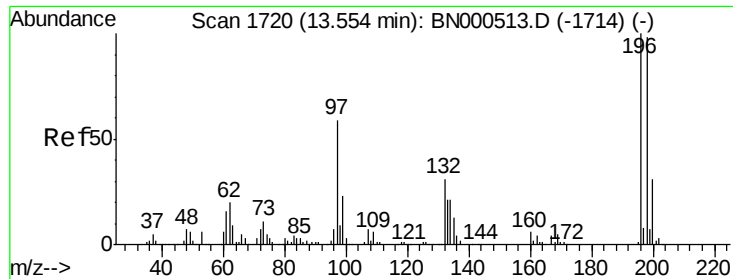
Tot Ion:142 Resp: 3386222  
 Ion Ratio Lower Upper  
 142 100  
 141 90.1 71.4 107.2



#38  
 2,4,6-Trichlorophenol  
 Concen: 29.046 ng/ul  
 RT: 13.55 min Scan# 1719  
 Delta R.T. 0.07 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

Tgt Ion:196 Resp: 204999  
 Ion Ratio Lower Upper  
 196 100  
 198 97.9 75.9 113.9  
 200 31.7 25.8 38.6

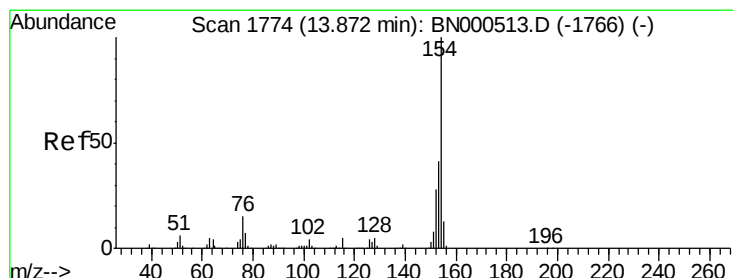
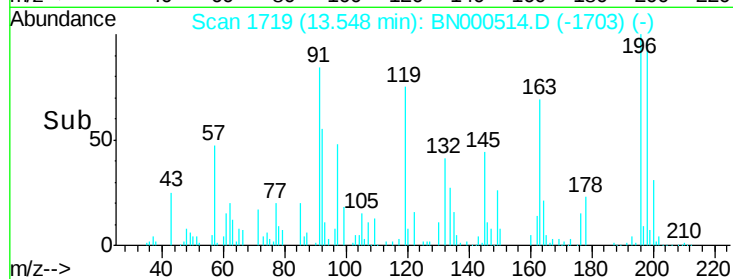
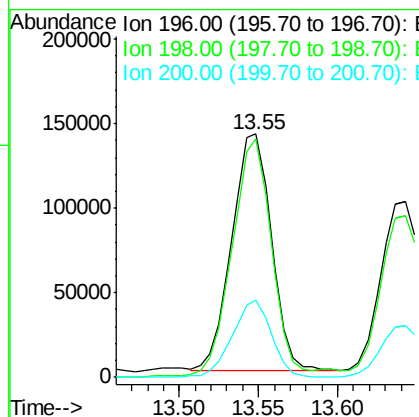
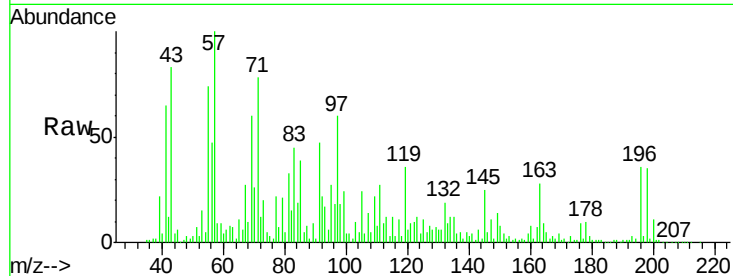




#39  
 2,4,5-Trichlorophenol  
 Concen: 33.002 ng/ul  
 RT: 13.55 min Scan# 1719  
 Delta R.T. -0.01 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

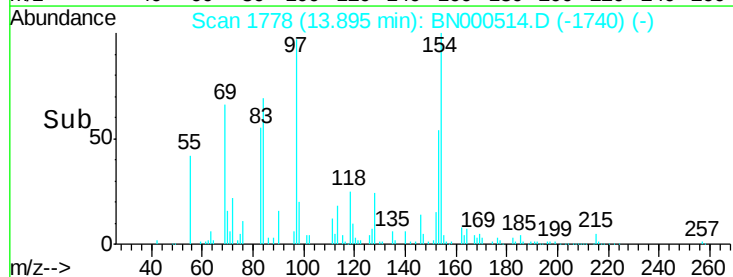
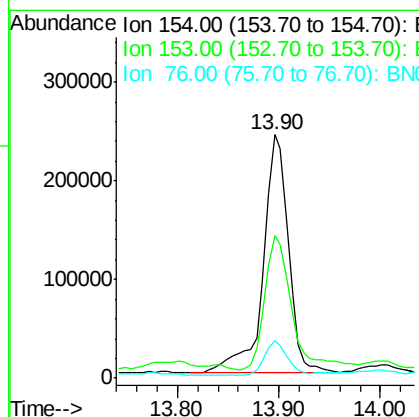
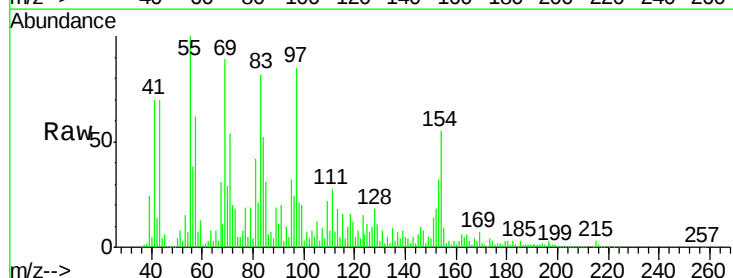
Instrument :  
 BNA\_N  
 ClientSampled :

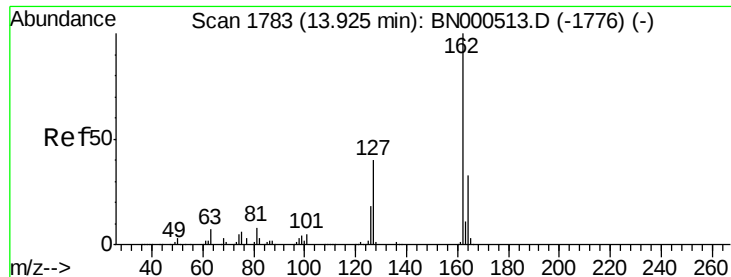
| Tot Ion   | 196   | Resp  | 242866 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 97.9  | 74.7  | 112.1  |
| 200       | 31.7  | 25.4  | 38.0   |



#40  
 1,1'-Biphenyl  
 Concen: 14.321 ng/ul  
 RT: 13.90 min Scan# 1778  
 Delta R.T. 0.02 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

| Tgt Ion   | 154   | Resp  | 422214 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 58.7  | 34.0  | 51.0#  |
| 76        | 15.5  | 8.4   | 12.6#  |

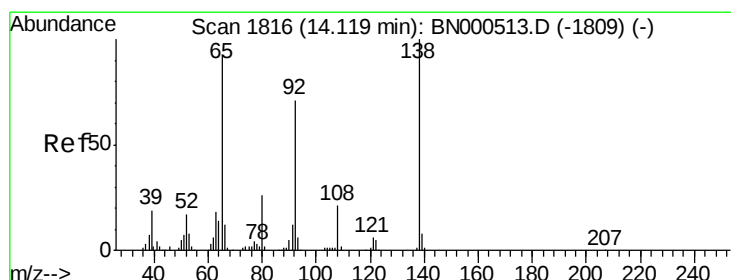
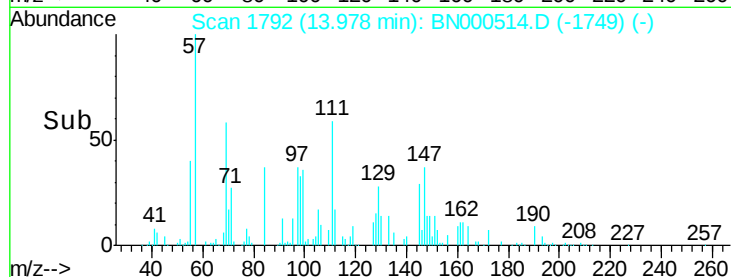
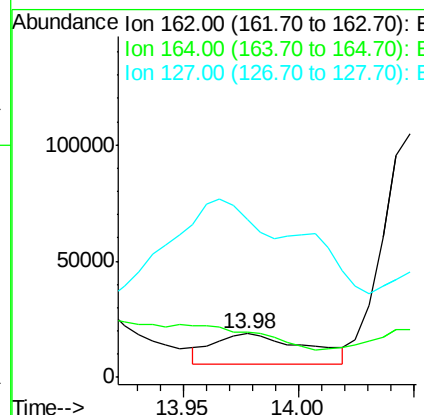
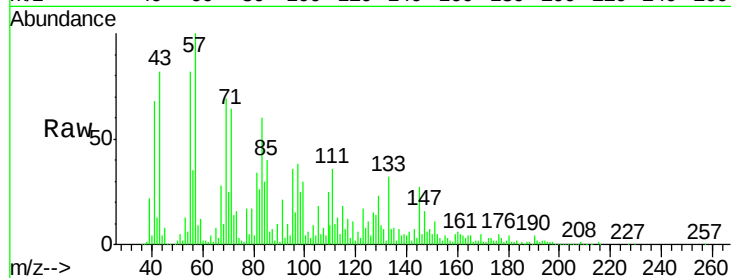




#41  
2-Chloronaphthalene  
Concen: 1.636 ng/ul  
RT: 13.98 min Scan# 1792  
Delta R.T. 0.05 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

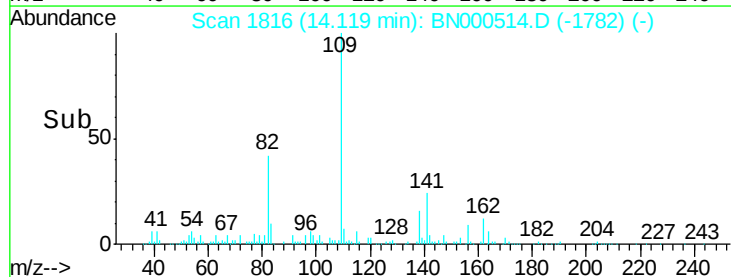
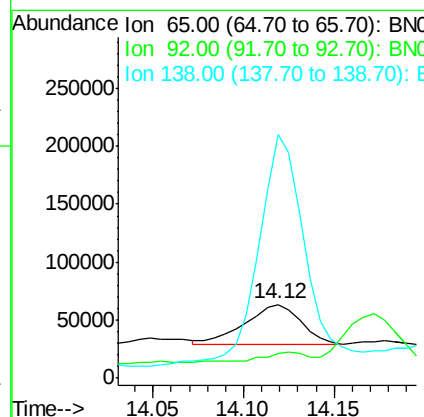
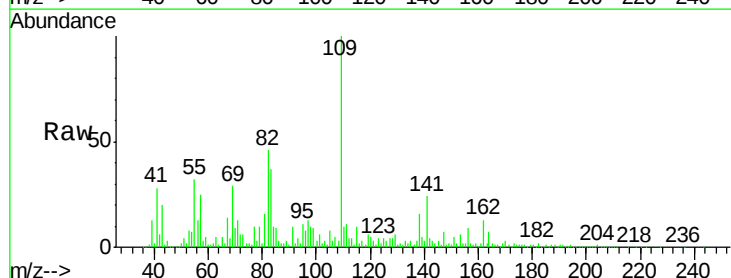
Instrument :  
BNA\_N  
ClientSampleId :

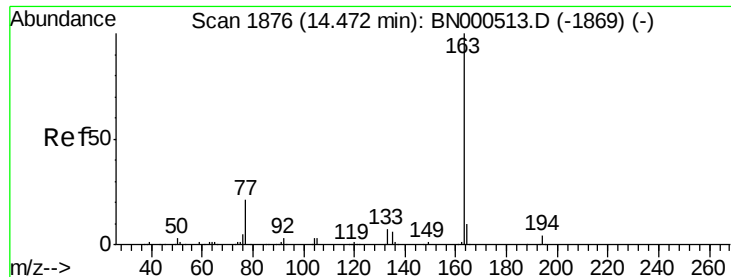
Tot Ion:162 Resp: 37185  
Ion Ratio Lower Upper  
162 100  
164 104.2 26.2 39.4#  
127 364.3 29.5 44.3#



#42  
2-Nitroaniline  
Concen: 10.552 ng/ul  
RT: 14.12 min Scan# 1816  
Delta R.T. 0.00 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

Tgt Ion: 65 Resp: 72658  
Ion Ratio Lower Upper  
65 100  
92 33.4 57.0 85.4#  
138 329.3 87.2 130.8#





#44

Dimethylphthalate

Concen: 1.898 ng/ul

RT: 14.50 min Scan# 1881

Delta R.T. 0.03 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

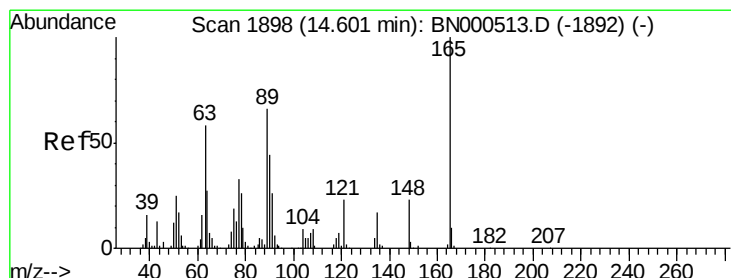
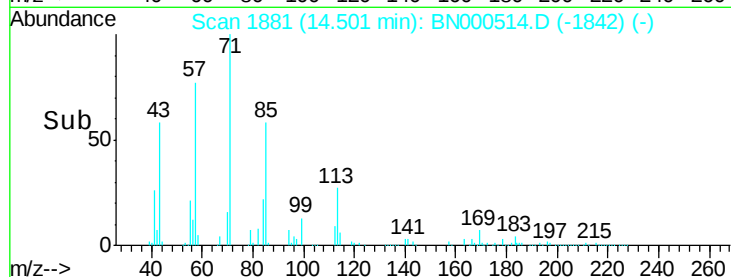
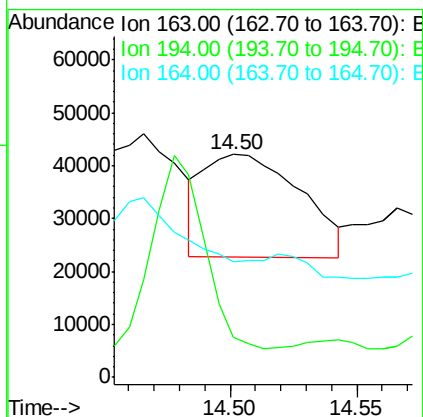
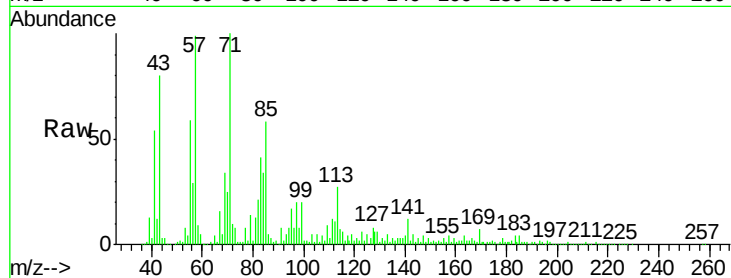
Tot Ion:163 Resp: 51368

Ion Ratio Lower Upper

163 100

194 18.2 4.0 6.0#

164 51.7 8.4 12.6#



#45

2,6-Dinitrotoluene

Concen: 7.926 ng/ul

RT: 14.66 min Scan# 1908

Delta R.T. 0.06 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

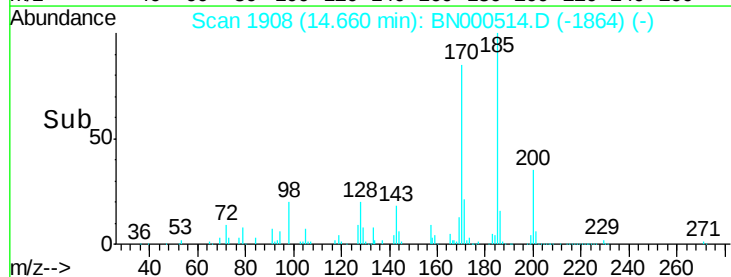
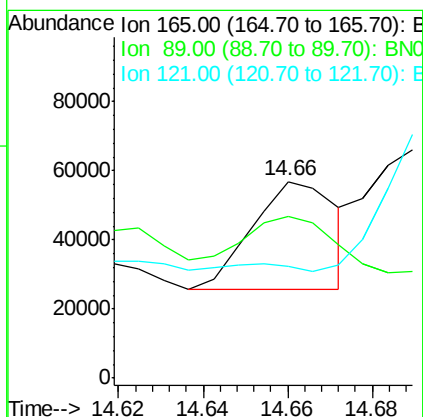
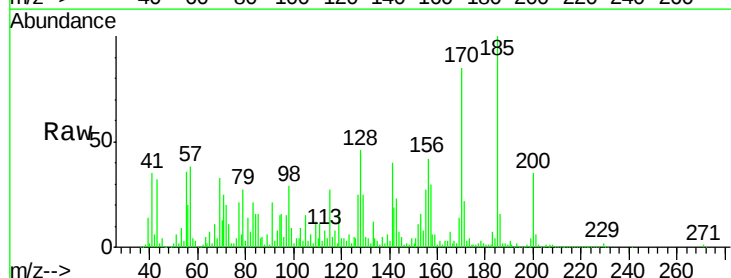
Tgt Ion:165 Resp: 43227

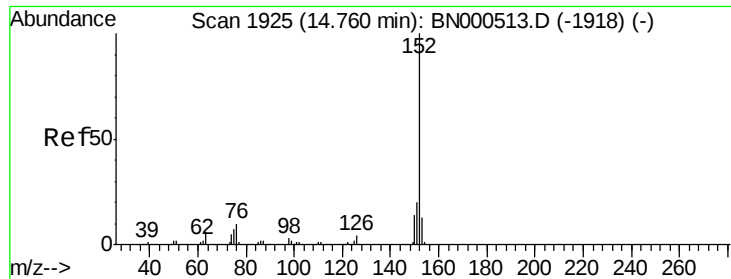
Ion Ratio Lower Upper

165 100

89 82.0 43.8 65.8#

121 56.8 17.8 26.6#





#47

Acenaphthylene

Concen: 2.450 ng/ul

RT: 14.78 min Scan# 1929

Delta R.T. 0.02 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

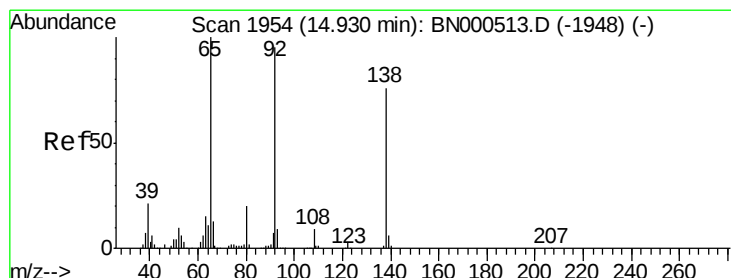
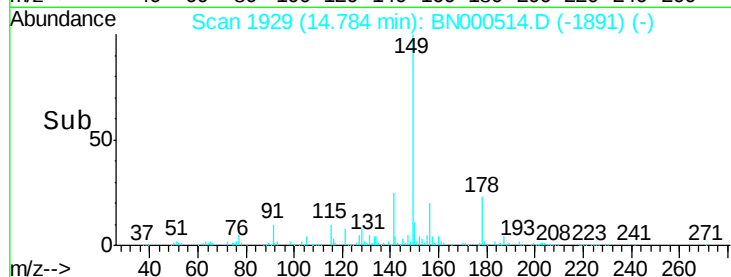
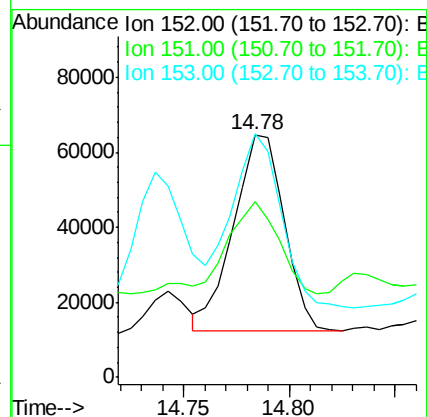
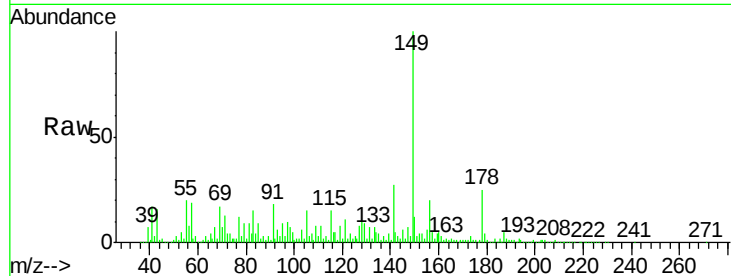
Tot Ion:152 Resp: 86637

Ion Ratio Lower Upper

152 100

151 72.7 16.1 24.1#

153 100.4 10.8 16.2#



#48

3-Nitroaniline

Concen: 3.747 ng/ul

RT: 14.96 min Scan# 1959

Delta R.T. 0.03 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

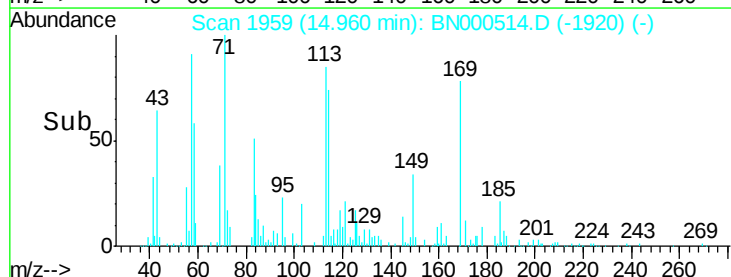
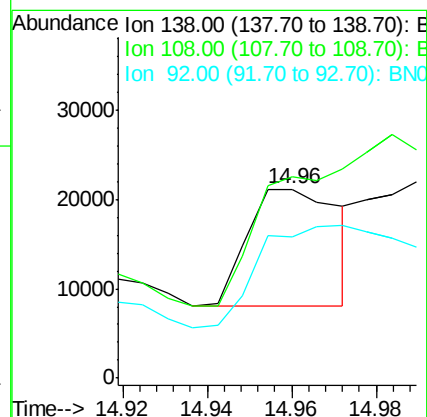
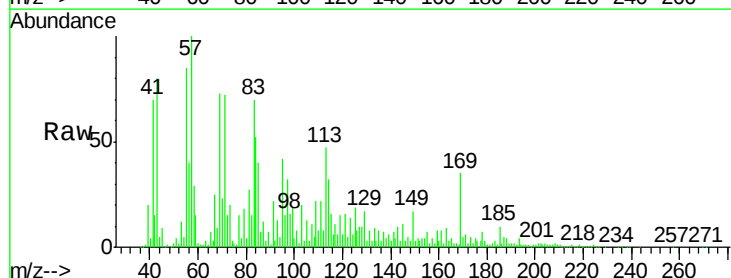
Tgt Ion:138 Resp: 19728

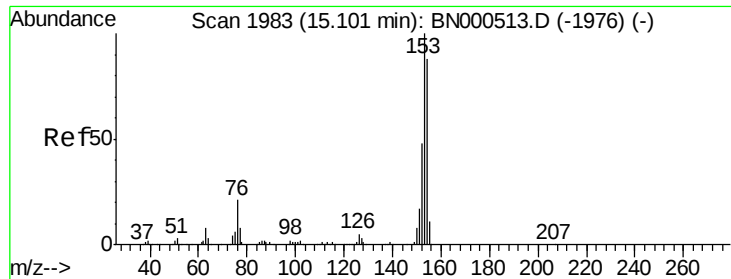
Ion Ratio Lower Upper

138 100

108 106.8 7.6 11.4#

92 74.7 94.2 141.2#





#49

Acenaphthene

Concen: 1.099 ng/ul

RT: 14.95 min Scan# 1958

Delta R.T. -0.15 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampled :

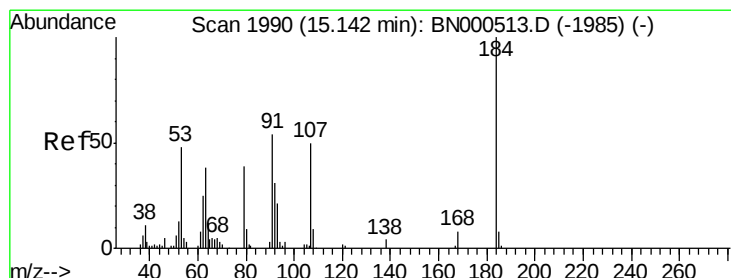
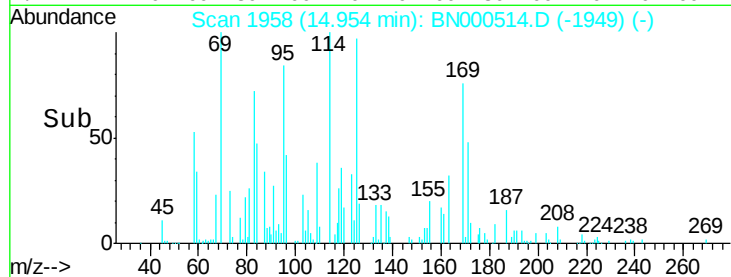
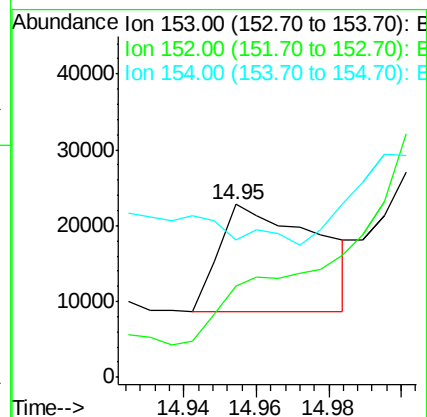
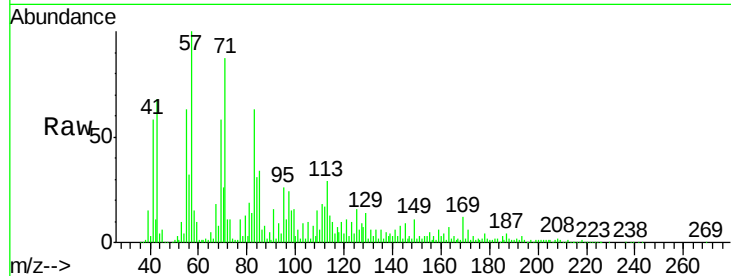
Tot Ion:153 Resp: 26492

Ion Ratio Lower Upper

153 100

152 52.5 37.9 56.9

154 79.3 69.8 104.6



#50

2,4-Dinitrophenol

Concen: 19.400 ng/ul

RT: 15.17 min Scan# 1995

Delta R.T. 0.03 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

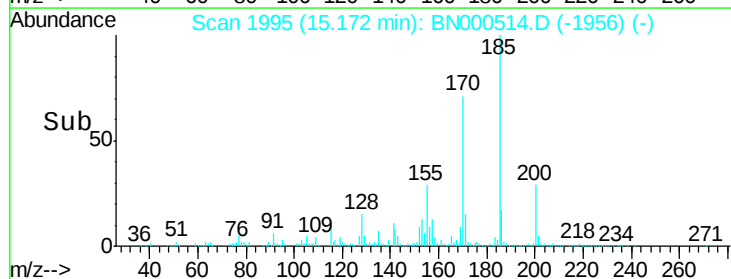
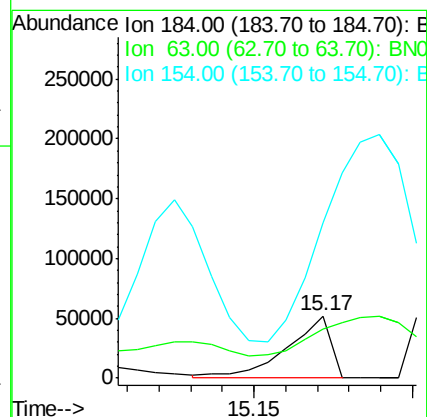
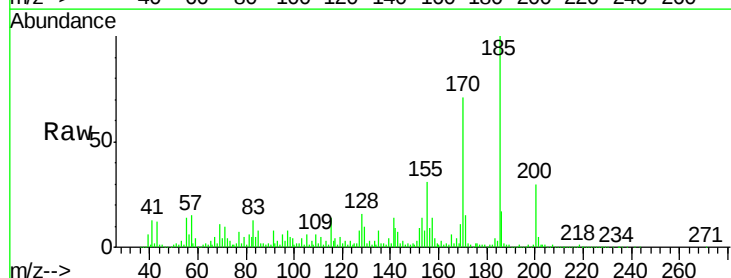
Tgt Ion:184 Resp: 49918

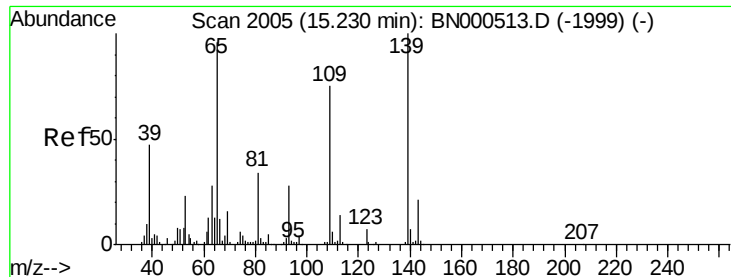
Ion Ratio Lower Upper

184 100

63 78.5 39.7 59.5#

154 248.9 45.0 67.6#





#52

4-Nitrophenol

Concen: 72.115 ng/ul

RT: 15.23 min Scan# 2005

Delta R.T. 0.00 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

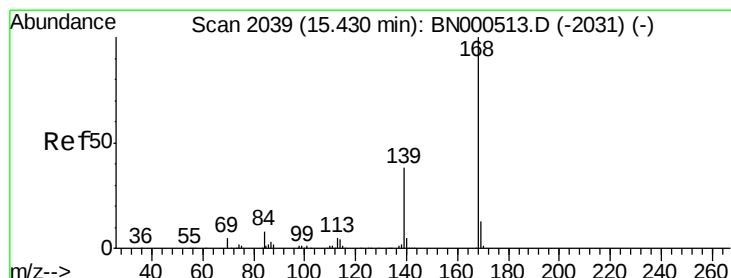
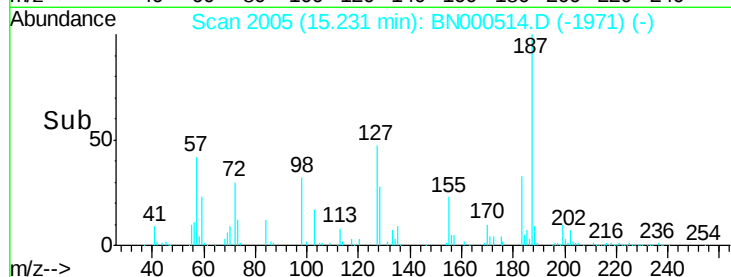
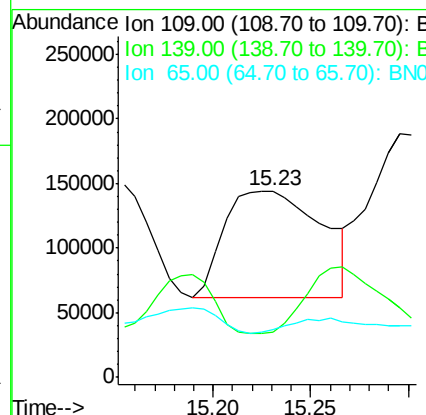
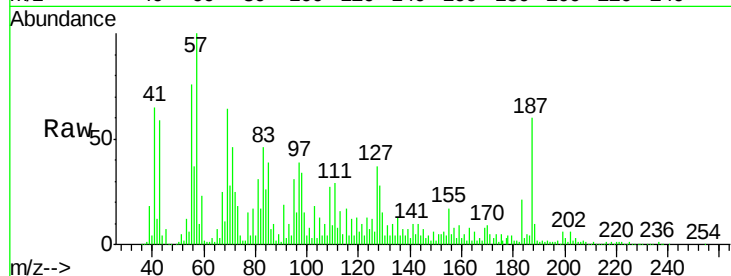
Tot Ion:109 Resp: 283140

Ion Ratio Lower Upper

109 100

139 24.7 91.2 136.8#

65 26.0 92.6 139.0#



#53

Dibenzofuran

Concen: 4.696 ng/ul

RT: 15.46 min Scan# 2044

Delta R.T. 0.03 min

Lab File: BN000514.D

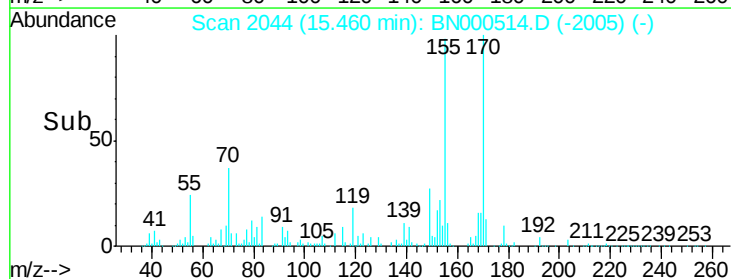
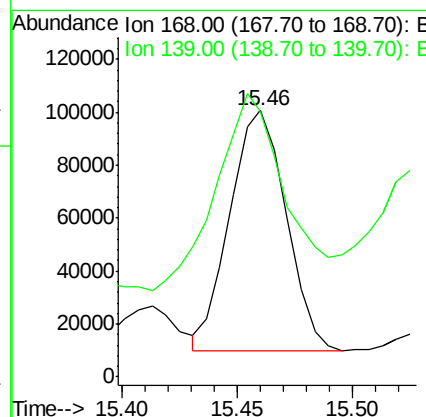
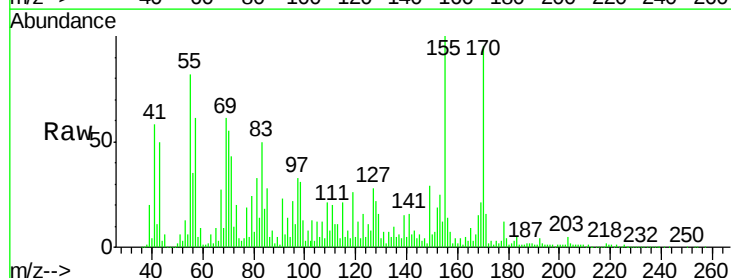
Acq: 21 Mar 2018 11:52

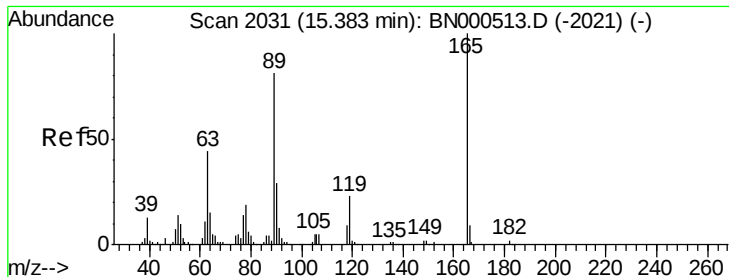
Tgt Ion:168 Resp: 153783

Ion Ratio Lower Upper

168 100

139 99.9 31.0 46.4#





#54

2,4-Dinitrotoluene

Concen: 2.510 ng/ul

RT: 15.40 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

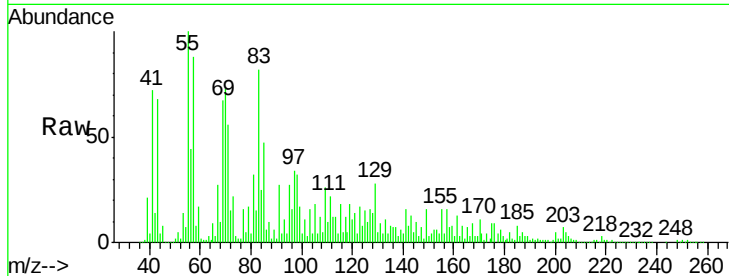
Tot Ion:165 Resp: 19407

Ion Ratio Lower Upper

165 100

63 45.6 31.4 47.0

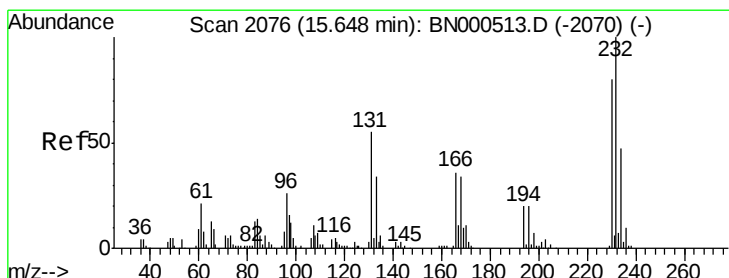
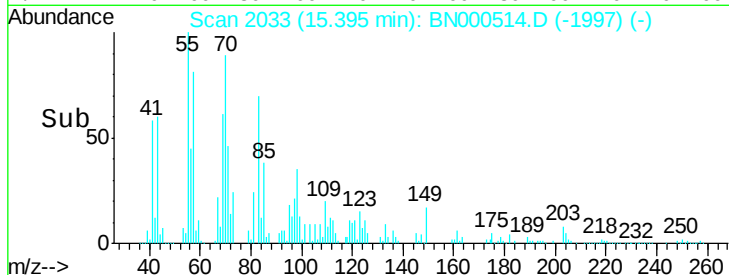
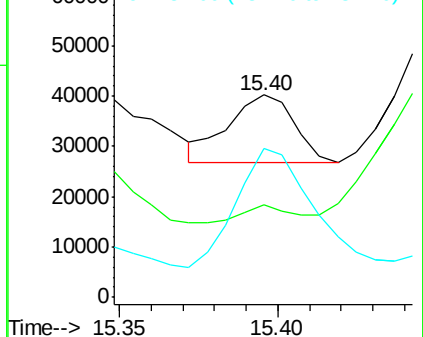
182 73.2 2.7 4.1#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BNO

Ion 182.00 (181.70 to 182.70): E



#55

2,3,4,6-Tetrachlorophenol

Concen: 180.741 ng/ul

RT: 15.61 min Scan# 2070

Delta R.T. -0.03 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Tgt Ion:232 Resp: 1015698

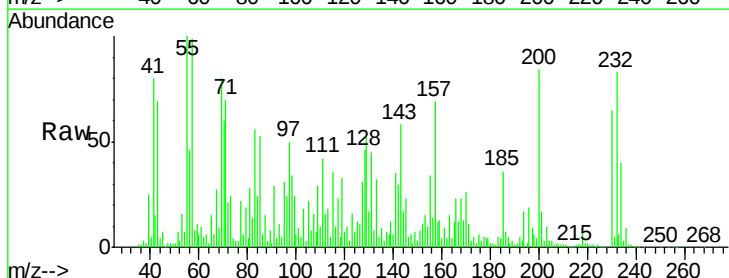
Ion Ratio Lower Upper

232 100

131 54.0 48.0 72.0

130 20.2 4.0 6.0#

166 27.8 32.0 48.0#

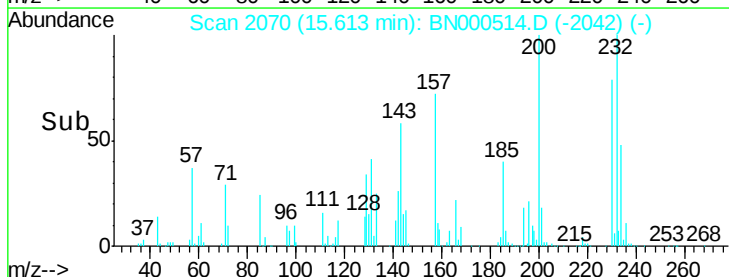
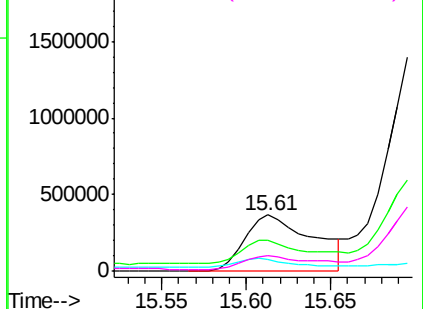


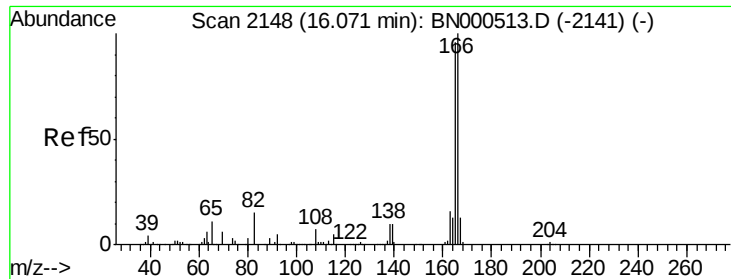
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E





#58

Fluorene

Concen: 13.780 ng/ul

RT: 16.11 min Scan# 2155

Delta R.T. 0.04 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

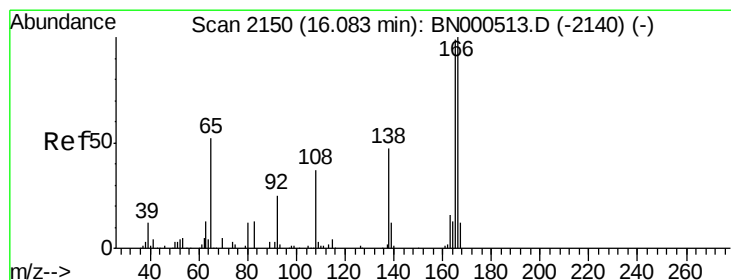
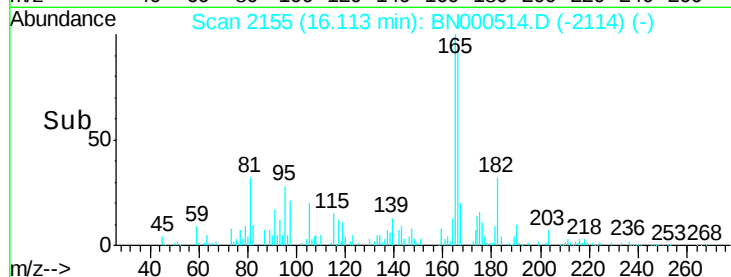
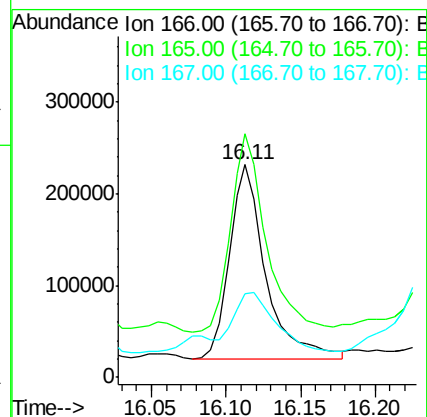
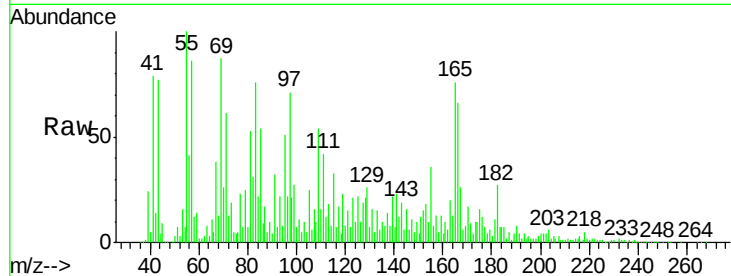
Tot Ion:166 Resp: 358602

Ion Ratio Lower Upper

166 100

165 114.5 78.4 117.6

167 39.1 11.1 16.7#



#60

4-Nitroaniline

Concen: 17.012 ng/ul

RT: 16.14 min Scan# 2159

Delta R.T. 0.05 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

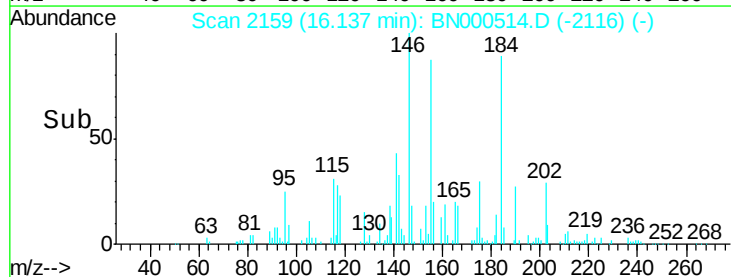
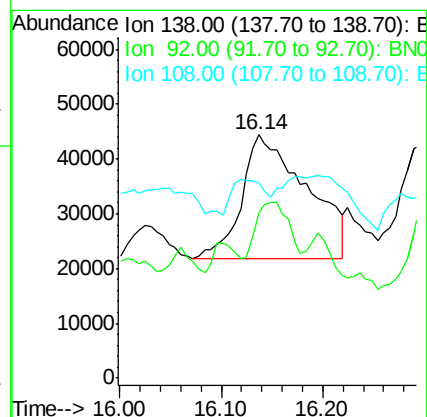
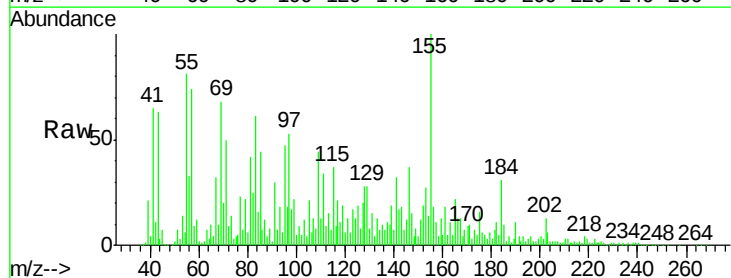
Tgt Ion:138 Resp: 100636

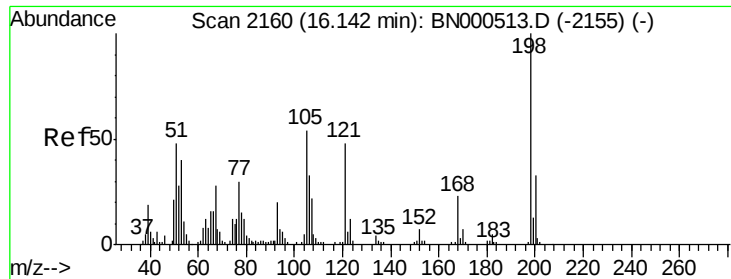
Ion Ratio Lower Upper

138 100

92 67.9 38.2 57.4#

108 80.0 70.0 105.0

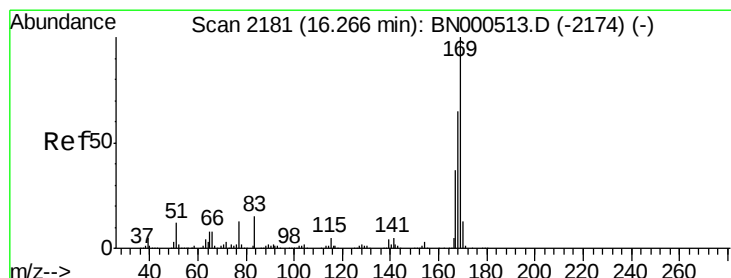
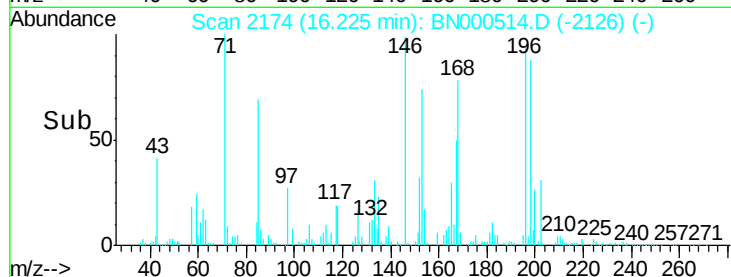
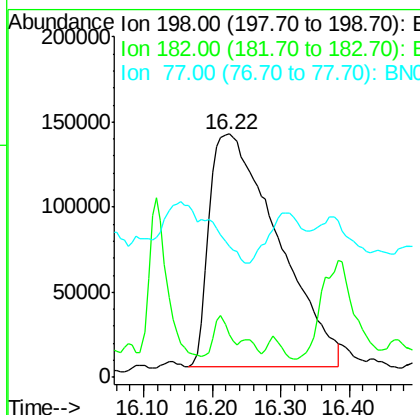
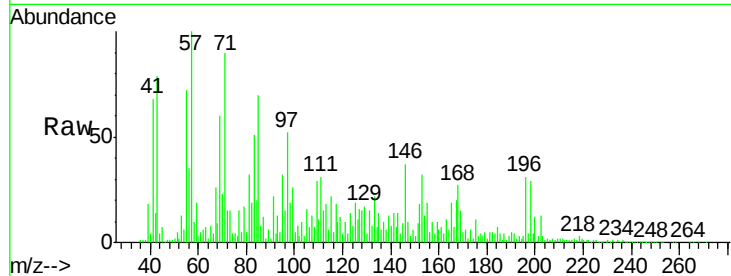




#63  
4,6-Dinitro-2-methylphenol  
Concen: 51529.180 ng/ul  
RT: 16.22 min Scan# 2174  
Delta R.T. 0.08 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

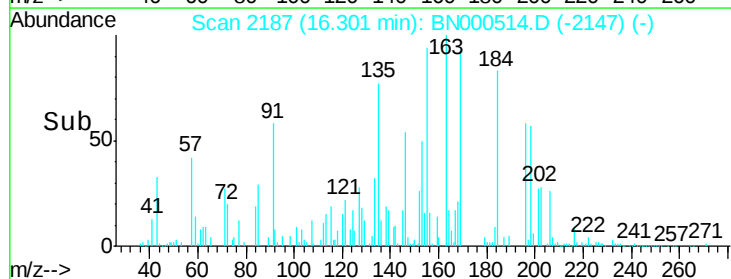
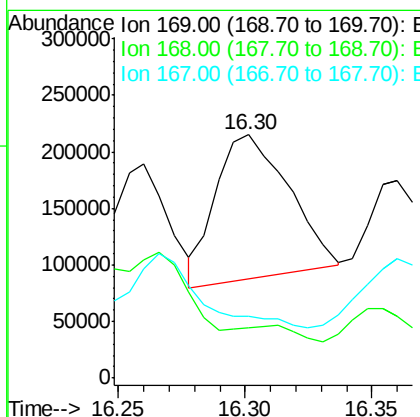
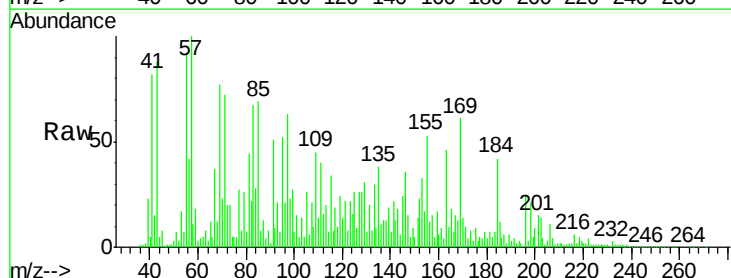
Instrument :  
BNA\_N  
ClientSampleId :

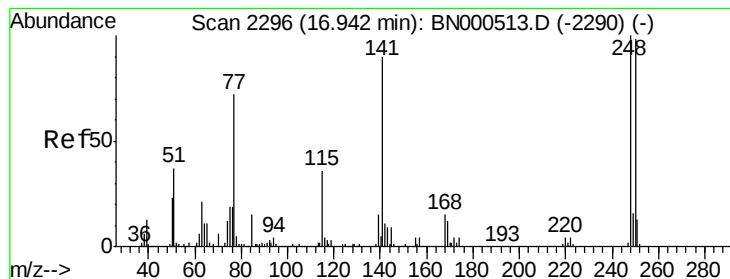
Tot Ion:198 Resp: 953049  
Ion Ratio Lower Upper  
198 100  
182 17.3 3.5 5.3#  
77 53.8 18.2 27.4#



#64  
N-Nitrosodiphenylamine  
Concen: 2568.940 ng/ul  
RT: 16.30 min Scan# 2187  
Delta R.T. 0.04 min  
Lab File: BN000514.D  
Acq: 21 Mar 2018 11:52

Tgt Ion:169 Resp: 258884  
Ion Ratio Lower Upper  
169 100  
168 20.6 53.8 80.8#  
167 25.4 29.5 44.3#





#65

4-Bromophenyl-phenylether

Concen: 16.357 ng/ul

RT: 17.02 min Scan# 2309

Delta R.T. 0.08 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

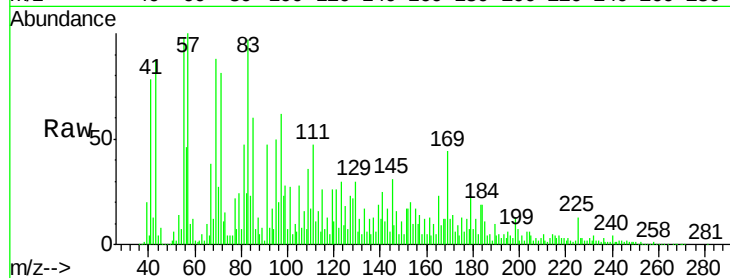
Tot Ion:248 Resp: 510

Ion Ratio Lower Upper

248 100

250 103.0 79.0 118.4

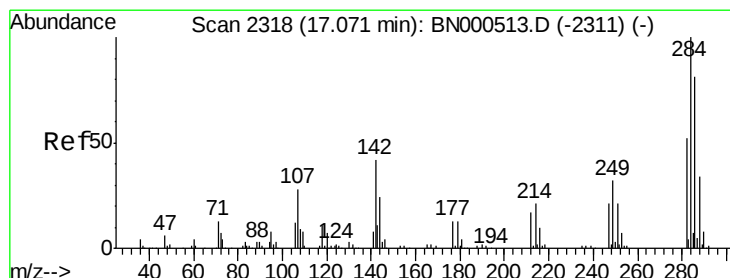
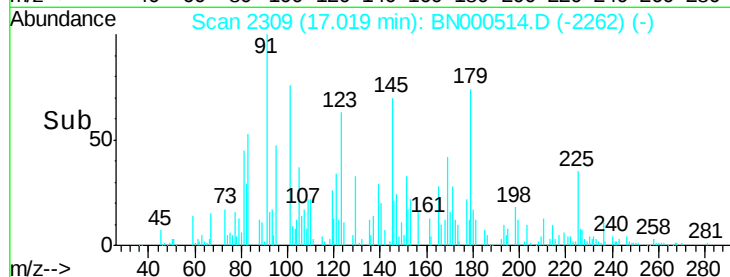
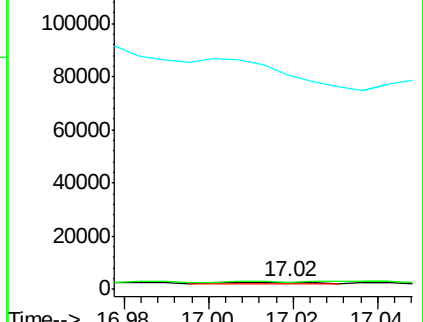
141 3056.4 51.9 77.9#



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



#66

Hexachlorobenzene

Concen: 288.492 ng/ul

RT: 17.10 min Scan# 2322

Delta R.T. 0.02 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

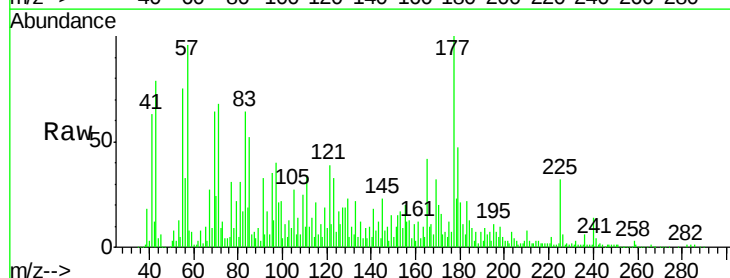
Tgt Ion:284 Resp: 9498

Ion Ratio Lower Upper

284 100

142 715.6 21.3 31.9#

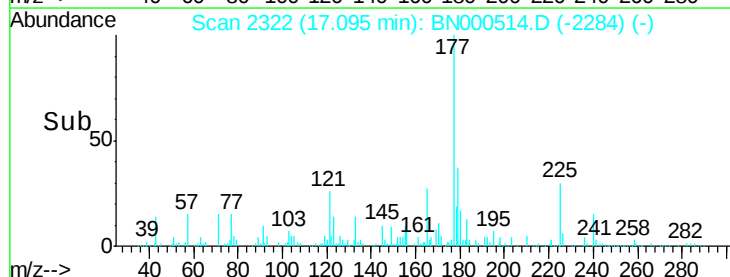
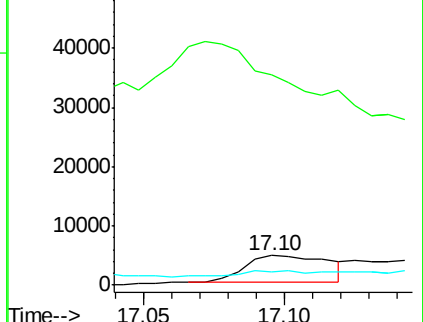
249 44.4 26.3 39.5#

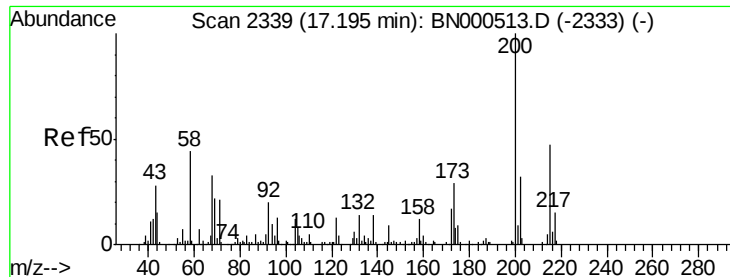


Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#67

Atrazine

Concen: 48.069 ng/ul

RT: 17.27 min Scan# 2352

Delta R.T. 0.08 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

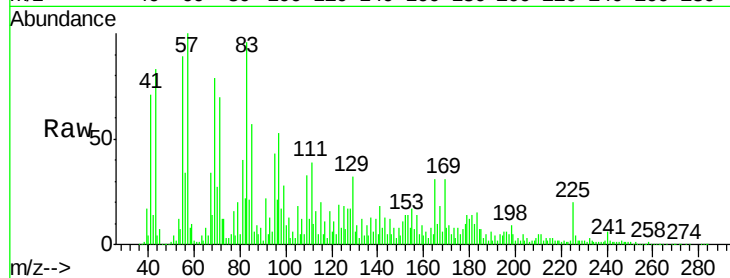
Tot Ion:200 Resp: 1461

Ion Ratio Lower Upper

200 100

173 323.0 20.6 31.0#

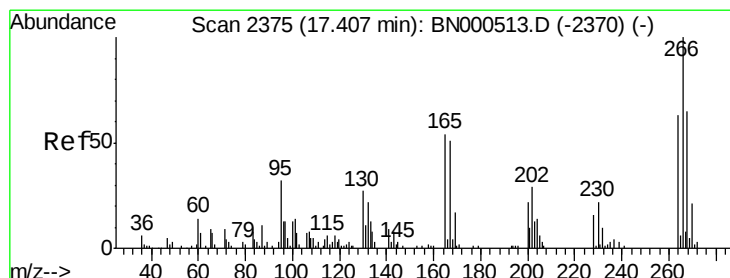
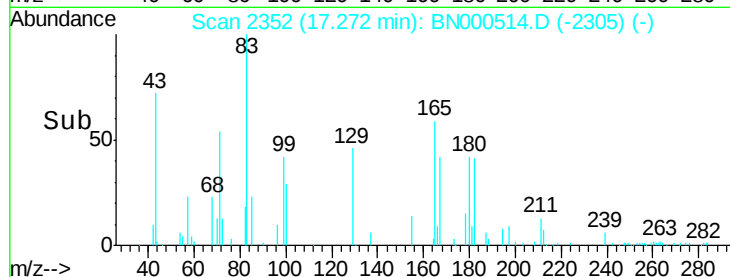
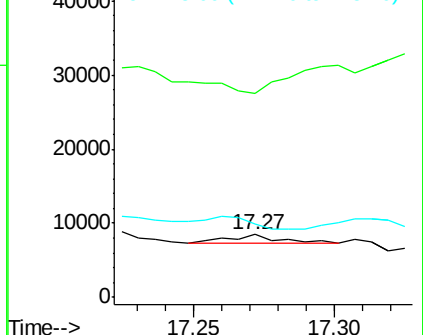
215 115.9 39.8 59.6#



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



#68

Pentachlorophenol

Concen: 560973.274 ng/ul

RT: 17.50 min Scan# 2390

Delta R.T. 0.09 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

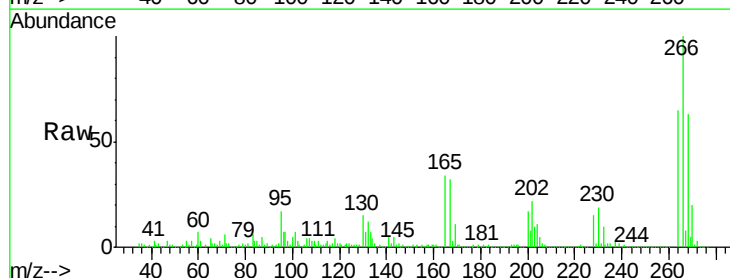
Tgt Ion:266 Resp: 9750301

Ion Ratio Lower Upper

266 100

264 65.0 48.2 72.4

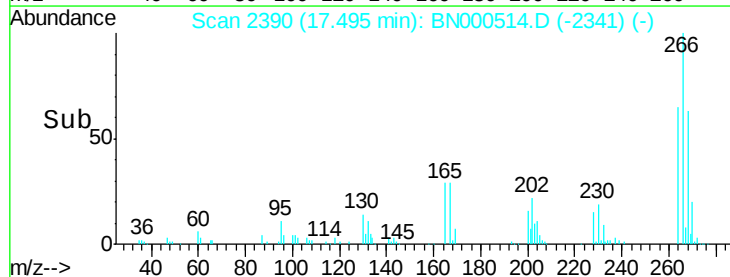
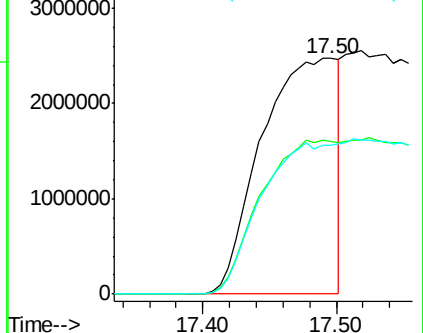
268 63.2 52.3 78.5

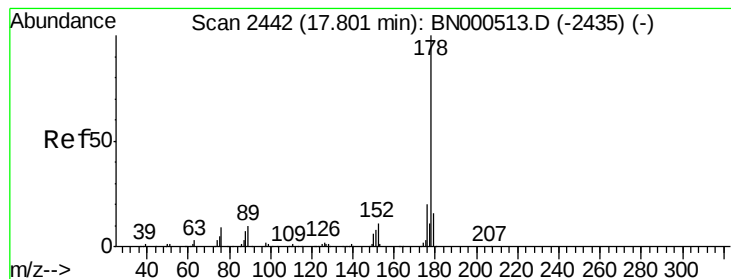


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#69

Phenanthrene

Concen: 218.506 ng/ul

RT: 17.84 min Scan# 2448

Delta R.T. 0.04 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

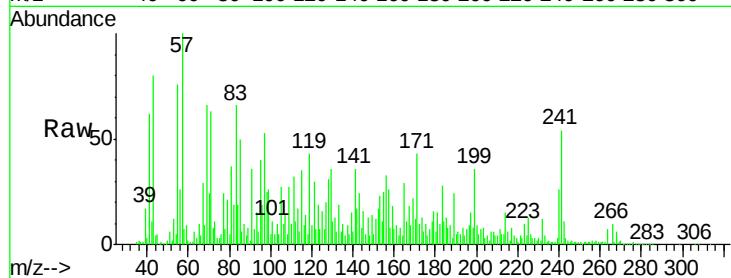
Tot Ion:178 Resp: 38507

Ion Ratio Lower Upper

178 100

179 145.6 12.3 18.5#

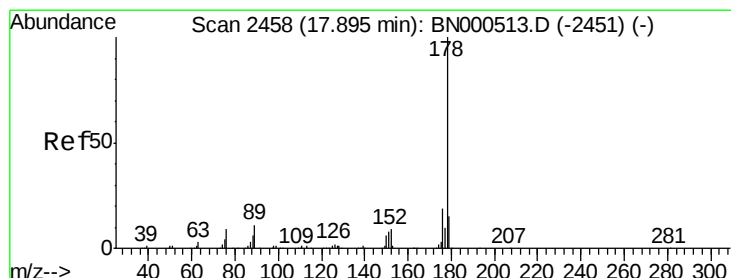
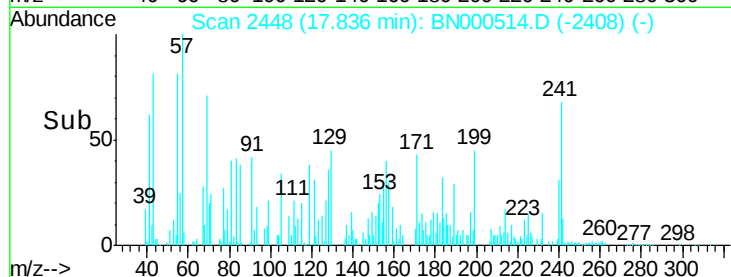
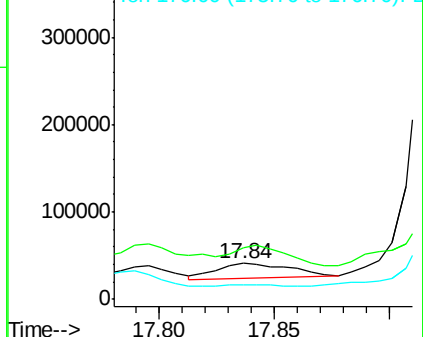
176 39.8 15.4 23.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 9080.804 ng/ul

RT: 17.93 min Scan# 2464

Delta R.T. 0.04 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

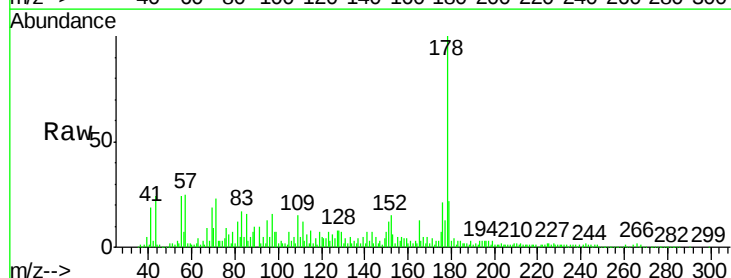
Tgt Ion:178 Resp: 1640900

Ion Ratio Lower Upper

178 100

179 21.9 13.4 20.2#

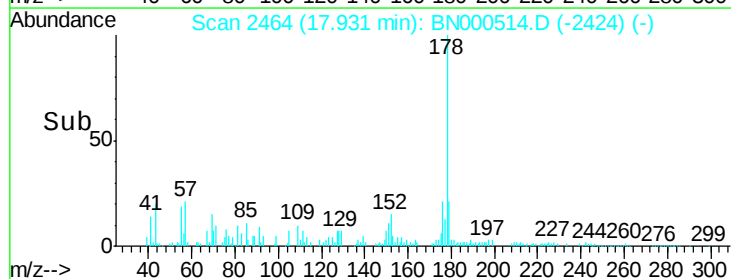
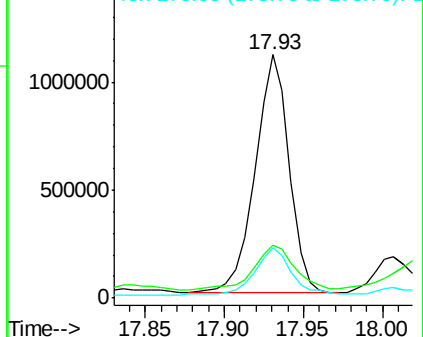
176 20.5 15.4 23.0

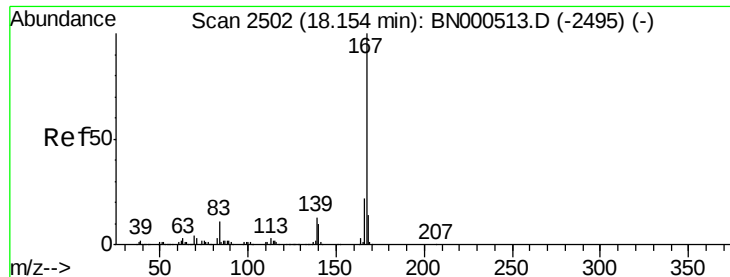


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

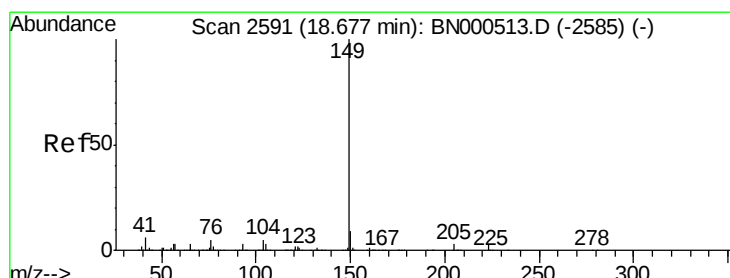
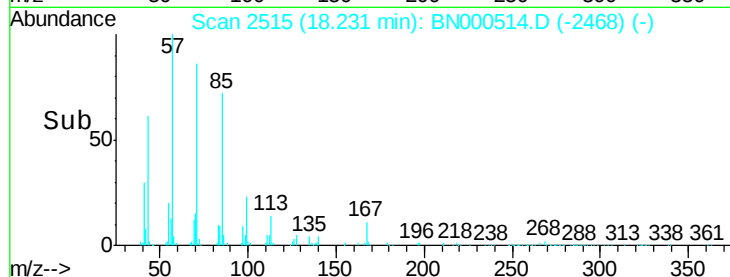
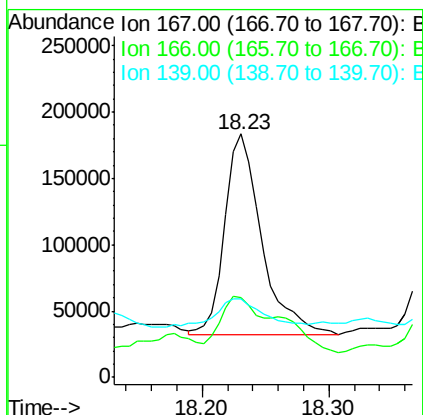
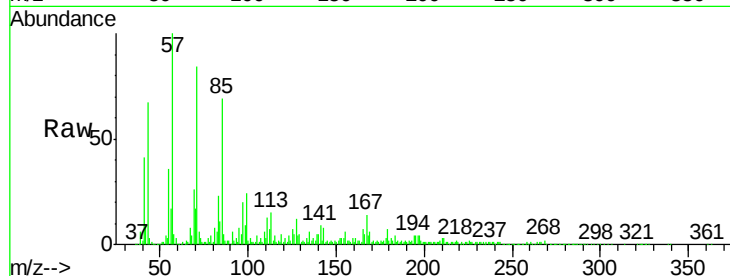




#72  
 Carbazole  
 Concen: 1976.922 ng/ul  
 RT: 18.23 min Scan# 2515  
 Delta R.T. 0.08 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

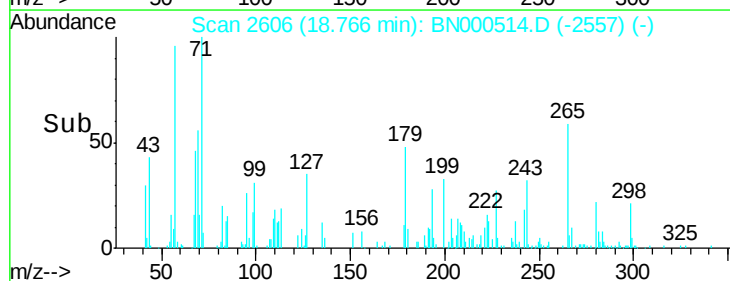
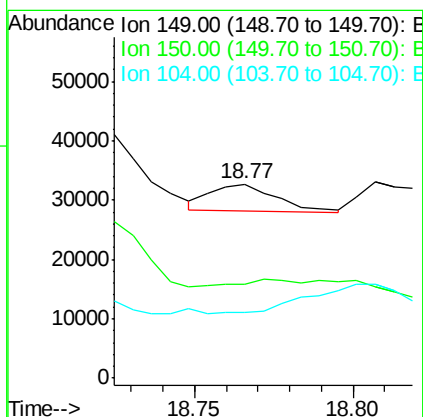
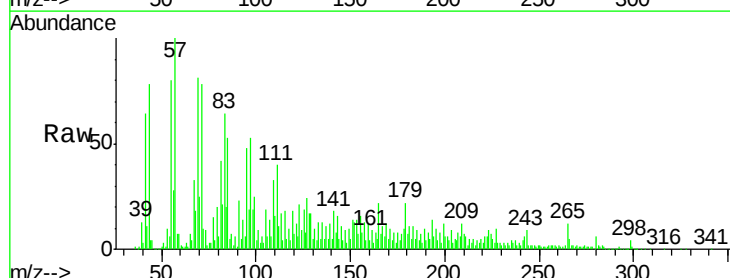
Instrument :  
 BNA\_N  
 ClientSampleId :

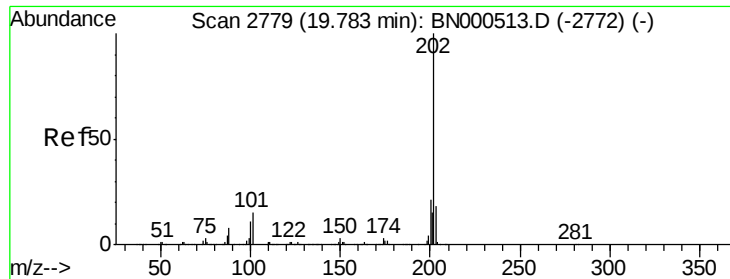
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 32.6  | 17.0  | 25.4# |
| 139     | 32.0  | 9.1   | 13.7# |



#73  
 Di-n-butylphthalate  
 Concen: 30.618 ng/ul  
 RT: 18.77 min Scan# 2606  
 Delta R.T. 0.09 min  
 Lab File: BN000514.D  
 Acq: 21 Mar 2018 11:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 48.2  | 7.5   | 11.3# |
| 104     | 33.9  | 4.1   | 6.1#  |





#74

Fluoranthene

Concen: 47.614 ng/ul

RT: 19.90 min Scan# 2798

Delta R.T. 0.11 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

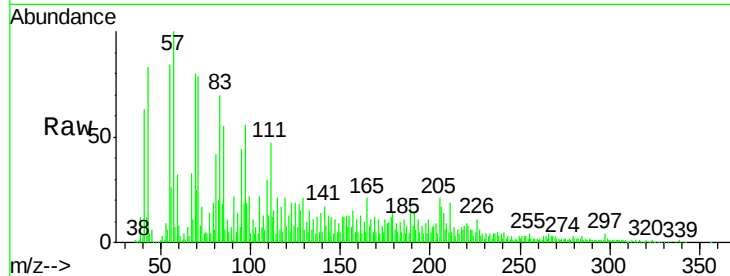
Tot Ion:202 Resp: 8338

Ion Ratio Lower Upper

202 100

101 141.9 6.1 9.1#

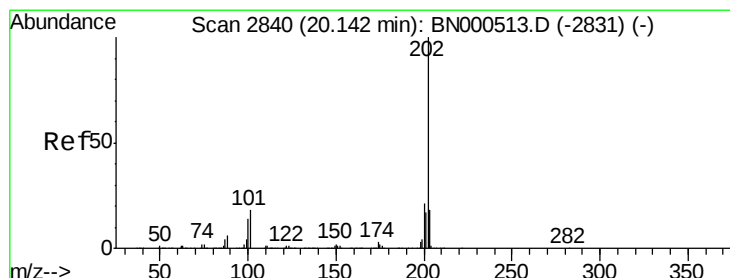
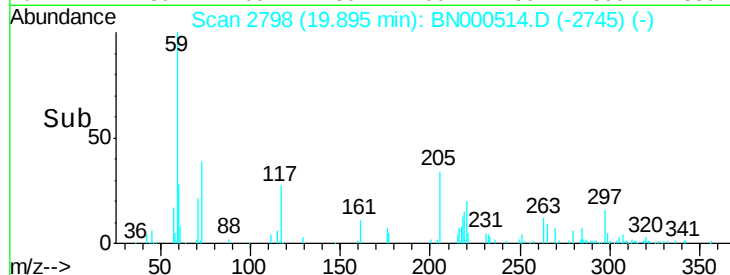
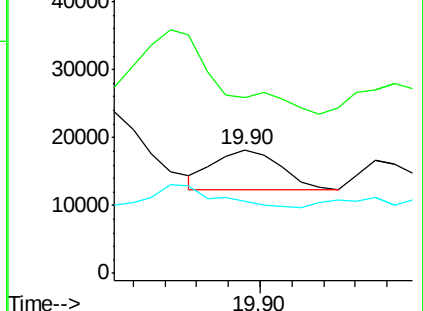
100 58.1 4.6 7.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 427.848 ng/ul

RT: 20.22 min Scan# 2854

Delta R.T. 0.08 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

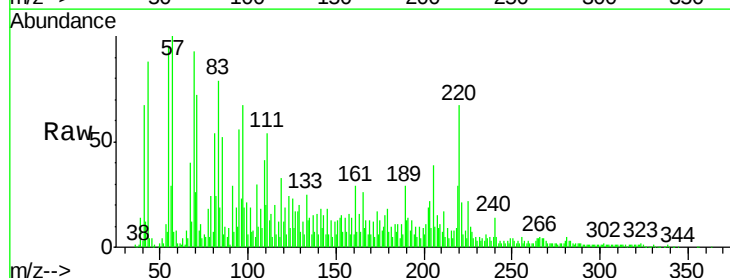
Tgt Ion:202 Resp: 28156

Ion Ratio Lower Upper

202 100

101 102.9 6.9 10.3#

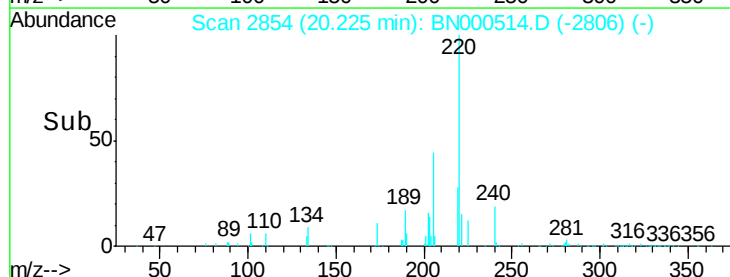
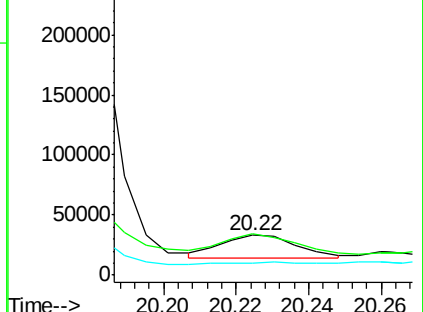
100 31.3 5.6 8.4#

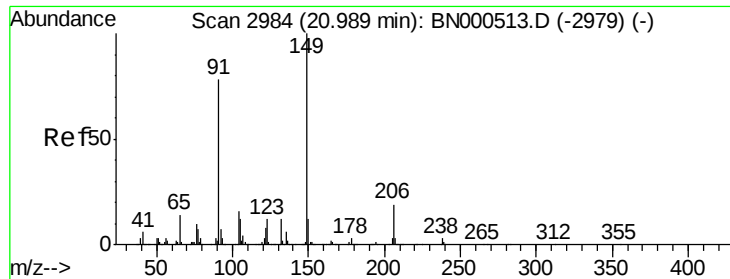


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#78

Butylbenzylphthalate

Concen: 152.868 ng/ul

RT: 21.11 min Scan# 3004

Delta R.T. 0.12 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

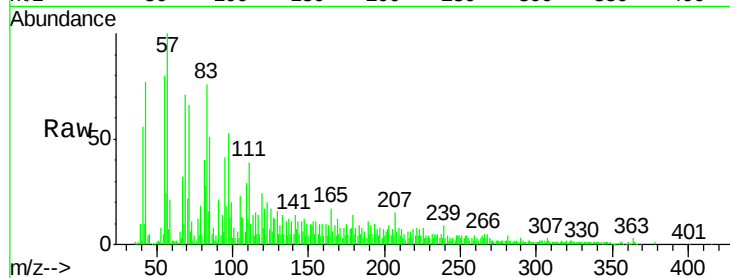
Tot Ion:149 Resp: 4997

Ion Ratio Lower Upper

149 100

91 216.0 53.4 80.0#

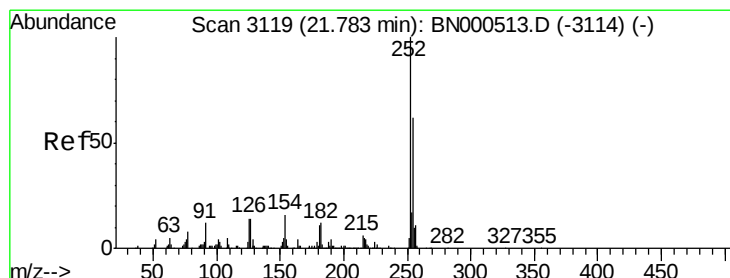
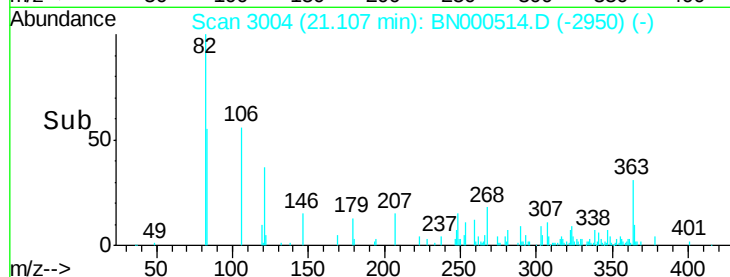
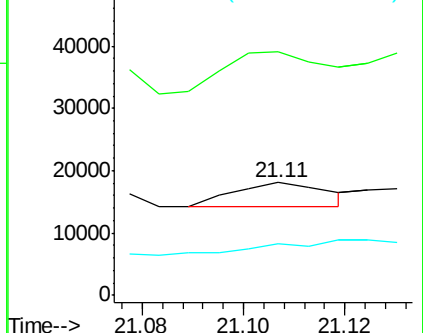
206 45.4 19.3 28.9#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BNA

Ion 206.00 (205.70 to 206.70): E



#79

3,3'-Dichlorobenzidine

Concen: 83.965 ng/ul

RT: 21.87 min Scan# 3133

Delta R.T. 0.08 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

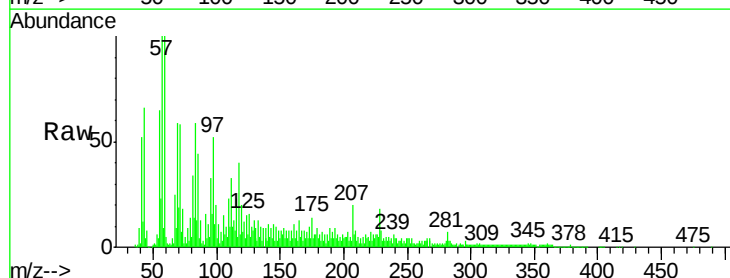
Tgt Ion:252 Resp: 1478

Ion Ratio Lower Upper

252 100

254 71.8 52.8 79.2

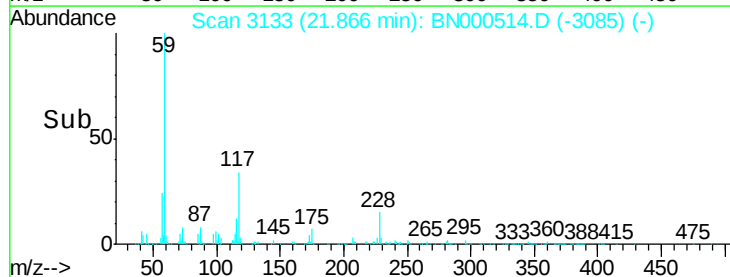
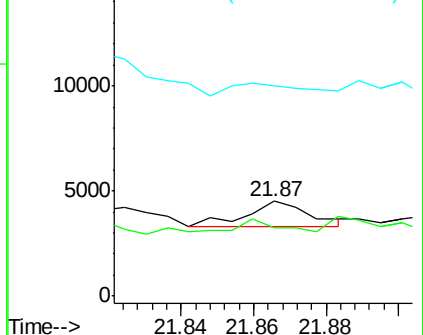
126 221.9 6.9 10.3#

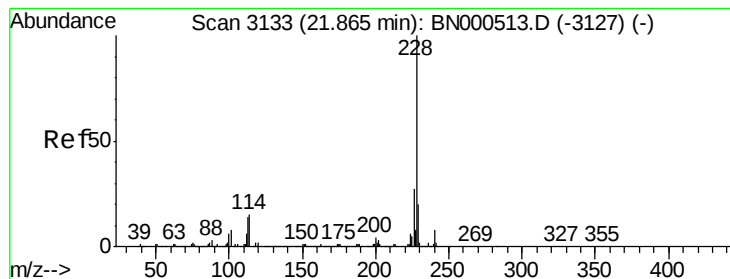


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#80

Benzo(a)anthracene

Concen: 1440.700 ng/ul

RT: 21.93 min Scan# 3144

Delta R.T. 0.07 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

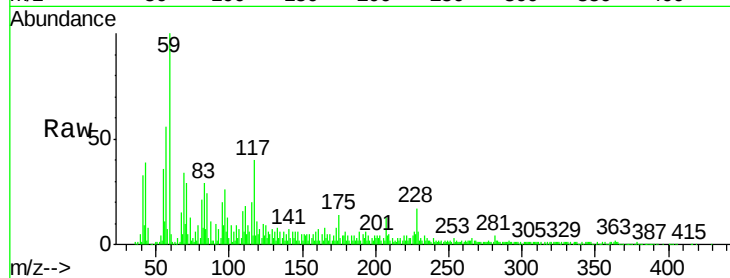
Tot Ion:228 Resp: 86489

Ion Ratio Lower Upper

228 100

229 37.9 16.0 24.0#

226 37.1 21.8 32.8#

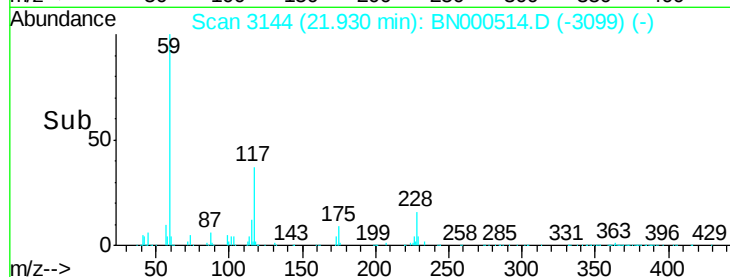


Abundance Ion 228.00 (227.70 to 228.70): E

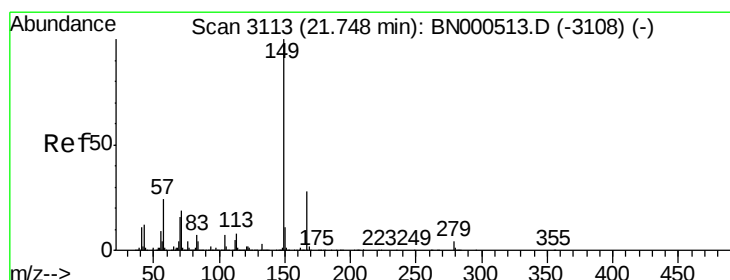
Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

Time-->



Time-->



#81

Bis(2-ethylhexyl)phthalate

Concen: 4587.988 ng/ul

RT: 21.75 min Scan# 3114

Delta R.T. 0.01 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

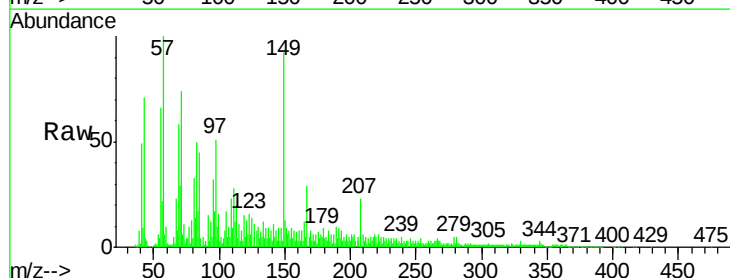
Tgt Ion:149 Resp: 217731

Ion Ratio Lower Upper

149 100

167 31.7 23.0 34.6

279 5.5 4.3 6.5

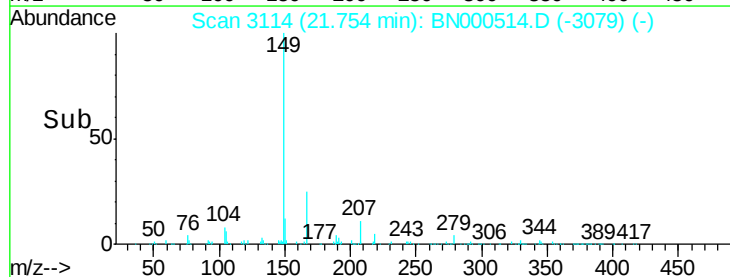


Abundance Ion 149.00 (148.70 to 149.70): E

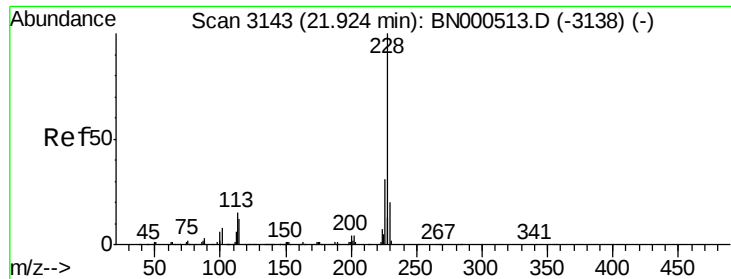
Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

Time-->



Time-->



#82

Chrysene

Concen: 22.069 ng/ul

RT: 22.01 min Scan# 3157

Delta R.T. 0.08 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

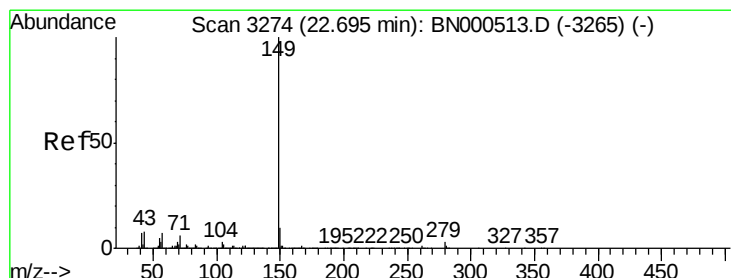
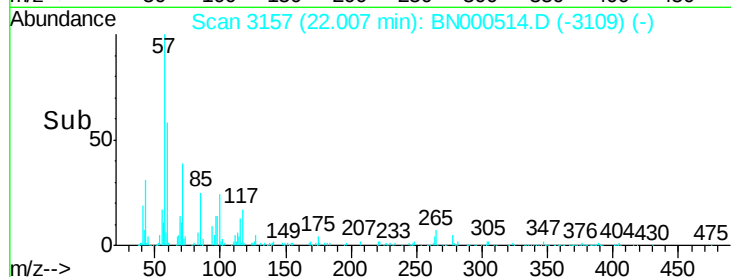
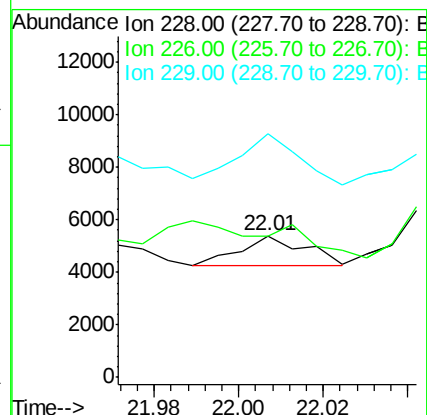
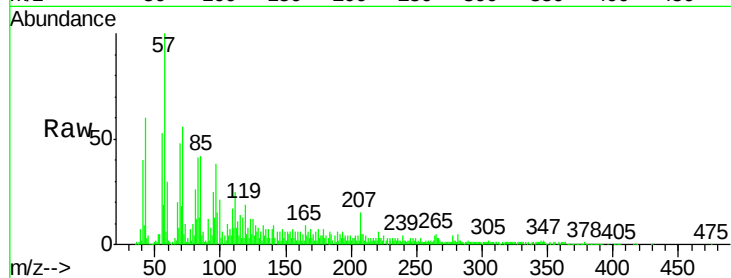
Tot Ion:228 Resp: 1242

Ion Ratio Lower Upper

228 100

226 99.6 24.1 36.1#

229 171.6 16.0 24.0#



#84

Di-n-octyl phthalate

Concen: 2.409 ng/ul

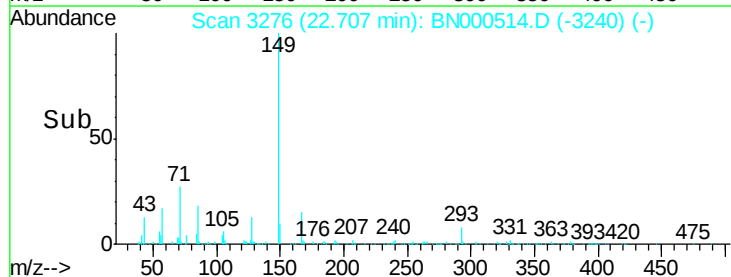
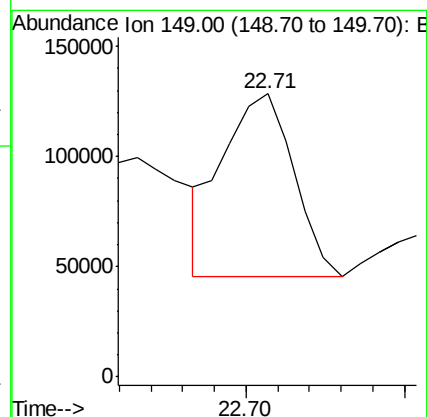
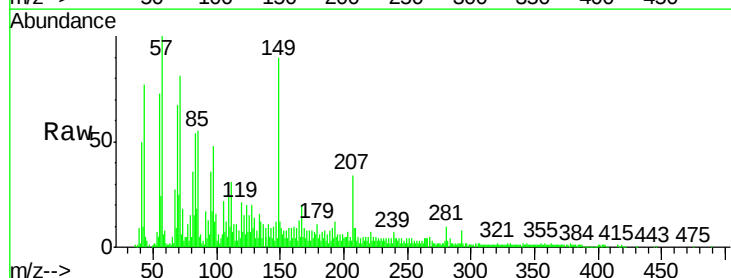
RT: 22.71 min Scan# 3276

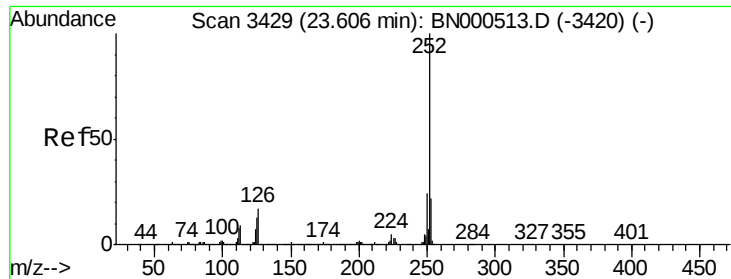
Delta R.T. 0.01 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Tgt Ion:149 Resp: 128054





#85

Benzo(b)fluoranthene

Concen: 1.175 ng/ul

RT: 23.62 min Scan# 3431

Delta R.T. 0.01 min

Lab File: BN000514.D

Acq: 21 Mar 2018 11:52

Instrument :

BNA\_N

ClientSampleId :

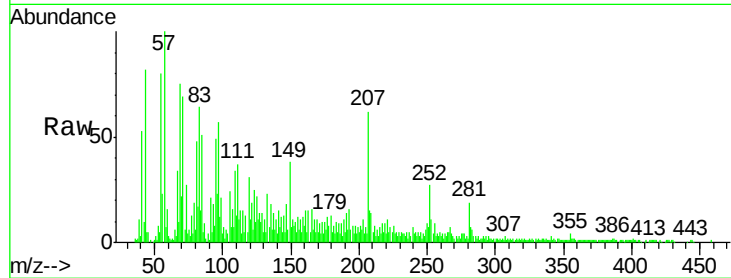
Tot Ion:252 Resp: 46870

Ion Ratio Lower Upper

252 100

253 40.5 17.4 26.0#

125 82.1 4.9 7.3#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

