

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG021116\  
 Data File : BG020862.D  
 Acq On : 11 Feb 2016 18:49  
 Operator : SJ/UM  
 Sample : G4825-03  
 Misc : LOD 1PPM  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

Quant Time: Feb 11 22:43:37 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG021116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 11 15:26:53 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.27  | 152  | 21289    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.09 | 136  | 106156   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.88 | 164  | 67729    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.61 | 188  | 144980   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 135397   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 25.28 | 264  | 125074   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 5.80  | 112 | 177808 | 140.65 | ng | 0.00 |
| 7) Phenol-d6             | 7.41  | 99  | 250396 | 135.52 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.44  | 82  | 138145 | 85.56  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.36 | 330 | 96118  | 144.31 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.51 | 172 | 396611 | 82.26  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.20 | 244 | 539613 | 92.97  | ng | 0.00 |

## Target Compounds

|                                |       |     |      |      |    | Qvalue |
|--------------------------------|-------|-----|------|------|----|--------|
| 2) 1,4-Dioxane                 | 3.64  | 88  | 301  | 0.65 | ng | # 27   |
| 3) Pyridine                    | 4.07  | 79  | 547  | 0.40 | ng | # 81   |
| 4) n-Nitrosodimethylamine      | 3.96  | 42  | 61   | 0.17 | ng | # 84   |
| 6) Aniline                     | 7.58  | 93  | 743  | 0.32 | ng | # 83   |
| 8) 2-Chlorophenol              | 7.83  | 128 | 1387 | 0.88 | ng | 97     |
| 9) Benzaldehyde                | 7.40  | 77  | 1282 | 1.39 | ng | # 71   |
| 10) Phenol                     | 7.43  | 94  | 1592 | 0.81 | ng | # 56   |
| 11) bis(2-Chloroethyl)ether    | 7.68  | 93  | 1161 | 0.74 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 8.16  | 146 | 1142 | 0.68 | ng | 87     |
| 13) 1,4-Dichlorobenzene        | 8.31  | 146 | 1371 | 0.81 | ng | # 93   |
| 14) 1,2-Dichlorobenzene        | 8.63  | 146 | 1387 | 0.84 | ng | 91     |
| 15) Benzyl Alcohol             | 8.50  | 79  | 933  | 0.80 | ng | # 85   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.79  | 45  | 1282 | 0.79 | ng | 61     |
| 17) 2-Methylphenol             | 8.70  | 107 | 1104 | 0.78 | ng | 93     |
| 18) Hexachloroethane           | 9.36  | 117 | 321  | 0.55 | ng | # 81   |
| 19) n-Nitroso-di-n-propylamine | 9.07  | 70  | 862  | 0.72 | ng | # 78   |
| 20) 3+4-Methylphenols          | 9.03  | 107 | 1675 | 0.85 | ng | 95     |
| 22) Acetophenone               | 9.09  | 105 | 1843 | 0.72 | ng | # 92   |
| 24) Nitrobenzene               | 9.48  | 77  | 1350 | 0.80 | ng | # 94   |
| 25) Isophorone                 | 10.00 | 82  | 2707 | 0.80 | ng | # 91   |
| 26) 2-Nitrophenol              | 10.20 | 139 | 539  | 0.61 | ng | # 43   |
| 27) 2,4-Dimethylphenol         | 10.24 | 122 | 970  | 0.57 | ng | 91     |
| 28) bis(2-Chloroethoxy)methane | 10.48 | 93  | 1678 | 0.80 | ng | # 89   |
| 29) 2,4-Dichlorophenol         | 10.72 | 162 | 1206 | 0.79 | ng | 82     |
| 30) 1,2,4-Trichlorobenzene     | 10.95 | 180 | 1148 | 0.75 | ng | 99     |
| 31) Naphthalene                | 11.15 | 128 | 4743 | 0.86 | ng | 96     |
| 32) Benzoic acid               | 10.24 | 122 | 970  | 0.71 | ng | # 18   |
| 33) 4-Chloroaniline            | 11.24 | 127 | 1170 | 0.50 | ng | # 82   |
| 34) Hexachlorobutadiene        | 11.43 | 225 | 519  | 0.66 | ng | # 85   |
| 35) Caprolactam                | 12.00 | 113 | 56   | 0.10 | ng | # 43   |
| 36) 4-Chloro-3-methylphenol    | 12.34 | 107 | 1315 | 0.75 | ng | 95     |
| 37) 2-Methylnaphthalene        | 12.73 | 142 | 3381 | 0.88 | ng | 96     |
| 39) 1,2,4,5-Tetrachlorobenzene | 13.09 | 216 | 1415 | 0.71 | ng | # 87   |
| 40) Hexachlorocyclopentadiene  | 13.07 | 237 | 73   | 0.08 | ng | # 28   |

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 Misc : LOD 1PPM  
 ALS Vial : 12 Sample Multiplier: 1

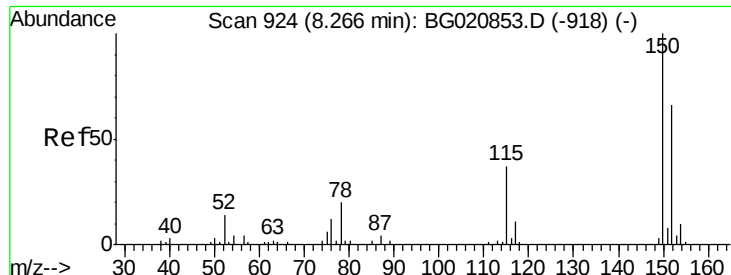
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

Quant Time: Feb 11 22:43:37 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG021116.M  
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| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.32 | 196  | 900      | 0.67 | ng    | 94       |
| 43) 2,4,5-Trichlorophenol      | 13.39 | 196  | 1068     | 0.76 | ng    | 95       |
| 45) 1,1'-Biphenyl              | 13.72 | 154  | 4655     | 0.78 | ng    | 98       |
| 46) 2-Chloronaphthalene        | 13.77 | 162  | 3254     | 0.76 | ng    | # 93     |
| 47) 2-Nitroaniline             | 13.96 | 65   | 774      | 0.76 | ng    | 92       |
| 48) Acenaphthylene             | 14.61 | 152  | 6031     | 0.81 | ng    | # 95     |
| 49) Dimethylphthalate          | 14.32 | 163  | 4518     | 0.85 | ng    | # 95     |
| 50) 2,6-Dinitrotoluene         | 14.44 | 165  | 665      | 0.59 | ng    | # 83     |
| 51) Acenaphthene               | 14.94 | 154  | 3424     | 0.76 | ng    | 99       |
| 52) 3-Nitroaniline             | 14.77 | 138  | 843      | 0.64 | ng    | # 79     |
| 54) Dibenzofuran               | 15.28 | 168  | 5647     | 0.95 | ng    | 99       |
| 55) 4-Nitrophenol              | 15.06 | 139  | 445      | 0.45 | ng    | 86       |
| 56) 2,4-Dinitrotoluene         | 15.22 | 165  | 859      | 0.59 | ng    | # 82     |
| 57) Fluorene                   | 15.92 | 166  | 4734     | 0.86 | ng    | 89       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.49 | 232  | 820      | 0.77 | ng    | # 86     |
| 59) Diethylphthalate           | 15.67 | 149  | 4631     | 0.85 | ng    | 95       |
| 60) 4-Chlorophenyl-phenylether | 15.91 | 204  | 1882     | 0.77 | ng    | # 84     |
| 61) 4-Nitroaniline             | 15.92 | 138  | 798      | 0.60 | ng    | # 81     |
| 62) Azobenzene                 | 16.20 | 77   | 4031     | 0.94 | ng    | 97       |
| 65) n-Nitrosodiphenylamine     | 16.12 | 169  | 3693     | 0.79 | ng    | 91       |
| 66) 4-Bromophenyl-phenylether  | 16.80 | 248  | 1124     | 0.73 | ng    | 84       |
| 67) Hexachlorobenzene          | 16.92 | 284  | 1327     | 0.81 | ng    | 90       |
| 68) Atrazine                   | 17.05 | 200  | 1148     | 0.81 | ng    | 92       |
| 69) Pentachlorophenol          | 17.26 | 266  | 220      | 0.24 | ng    | # 20     |
| 70) Phenanthrene               | 17.66 | 178  | 7010     | 0.85 | ng    | 94       |
| 71) Anthracene                 | 17.75 | 178  | 6966     | 0.83 | ng    | 97       |
| 72) Carbazole                  | 18.01 | 167  | 5918     | 0.79 | ng    | 95       |
| 73) Di-n-butylphthalate        | 18.55 | 149  | 7181     | 0.74 | ng    | 98       |
| 74) Fluoranthene               | 19.65 | 202  | 7369     | 0.83 | ng    | 99       |
| 76) Benzidine                  | 19.82 | 184  | 284      | 0.06 | ng    | # 64     |
| 77) Pyrene                     | 20.01 | 202  | 7421     | 0.83 | ng    | 93       |
| 79) Butylbenzylphthalate       | 20.87 | 149  | 3163     | 0.74 | ng    | # 96     |
| 80) Benzo(a)anthracene         | 21.88 | 228  | 7307     | 0.90 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.79 | 252  | 1431     | 0.48 | ng    | # 91     |
| 82) Chrysene                   | 21.94 | 228  | 6107     | 0.80 | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.76 | 149  | 4881     | 0.77 | ng    | # 95     |
| 84) Di-n-octyl phthalate       | 23.03 | 149  | 8107     | 0.78 | ng    | # 95     |
| 85) Indeno(1,2,3-cd)pyrene     | 29.15 | 276  | 6005     | 0.69 | ng    | # 67     |
| 87) Benzo(b)fluoranthene       | 24.20 | 252  | 6219     | 0.81 | ng    | # 90     |
| 88) Benzo(k)fluoranthene       | 24.26 | 252  | 6297     | 0.84 | ng    | # 93     |
| 89) Benzo(a)pyrene             | 25.11 | 252  | 6180     | 0.85 | ng    | 95       |
| 90) Dibenzo(a,h)anthracene     | 29.22 | 278  | 5248     | 0.74 | ng    | # 91     |
| 91) Benzo(g,h,i)perylene       | 30.34 | 276  | 2466     | 0.35 | ng    | # 92     |

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



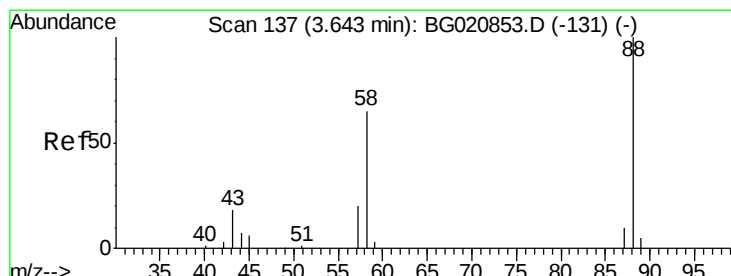
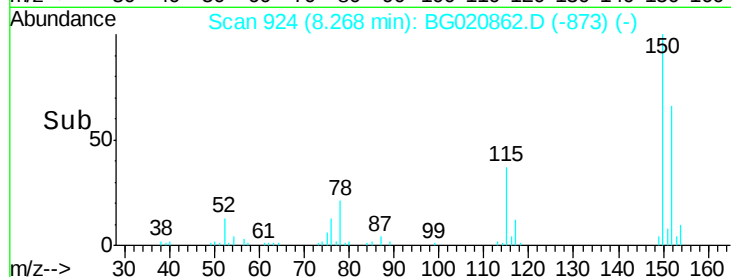
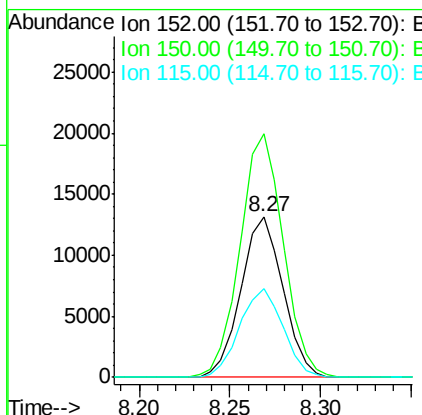
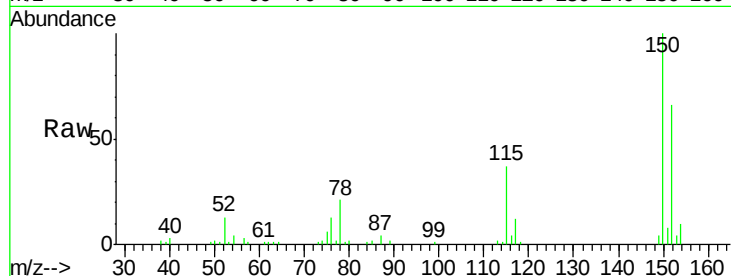


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.27 min Scan# 924  
Delta R.T. 0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Instrument :  
BNA\_G  
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LOD-SOIL2016-01

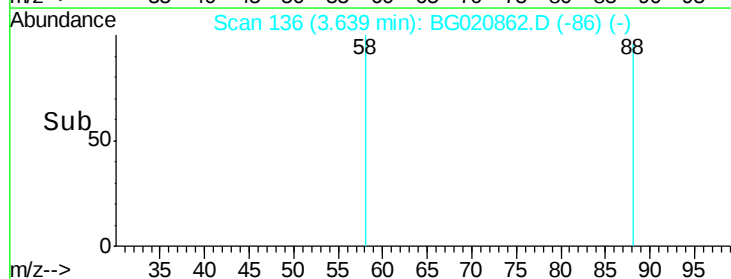
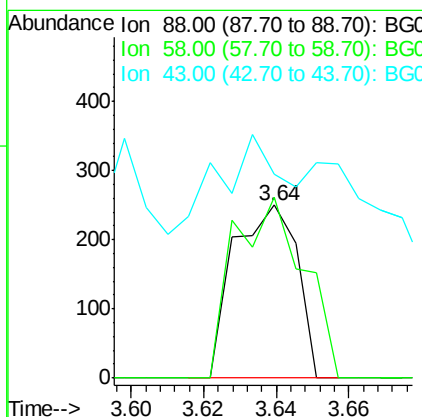
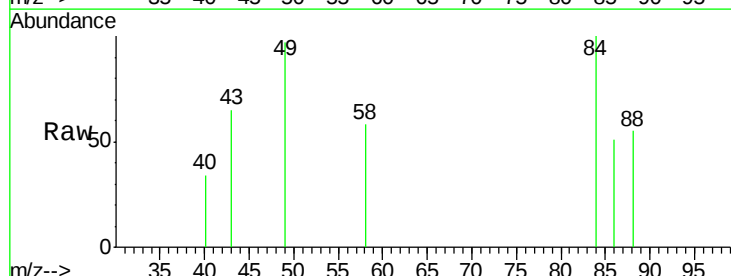
Tgt Ion:152 Resp: 21289  
Ion Ratio Lower Upper  
152 100  
150 151.3 122.0 183.0  
115 55.4 45.2 67.8

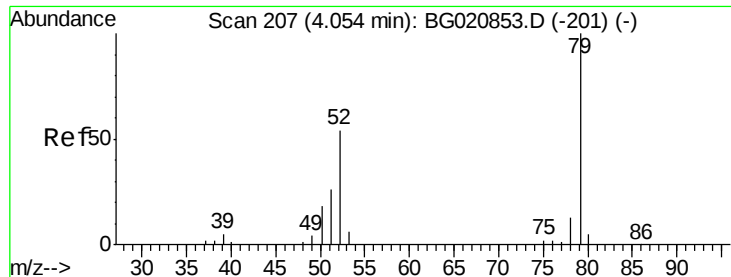


#2

1,4-Dioxane  
Concen: 0.65 ng  
RT: 3.64 min Scan# 136  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion: 88 Resp: 301  
Ion Ratio Lower Upper  
88 100  
58 115.9 50.3 75.5#  
43 57.8 14.5 21.7#





#3

Pyridine

Concen: 0.40 ng

RT: 4.07 min Scan# 209

Delta R.T. 0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

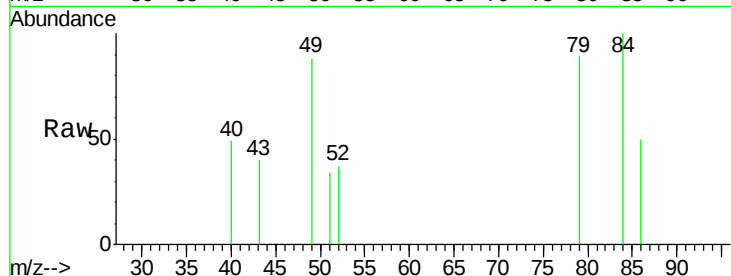
Tgt Ion: 79 Resp: 547

Ion Ratio Lower Upper

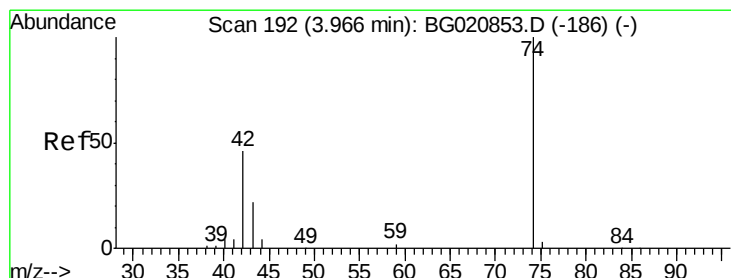
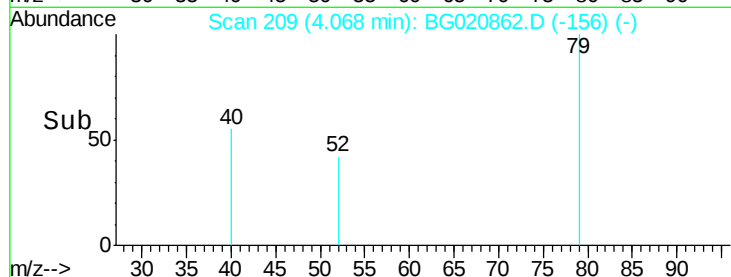
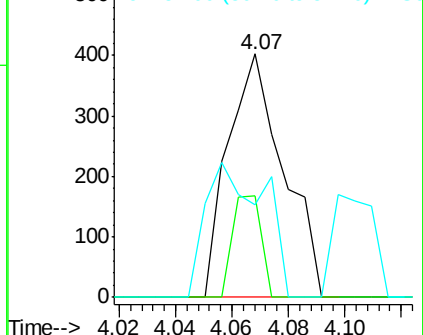
79 100

52 41.7 43.1 64.7#

51 38.2 20.7 31.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 52.00 (51.70 to 52.70): BGC  
Ion 51.00 (50.70 to 51.70): BGC



#4

n-Nitrosodimethylamine

Concen: 0.17 ng

RT: 3.96 min Scan# 191

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

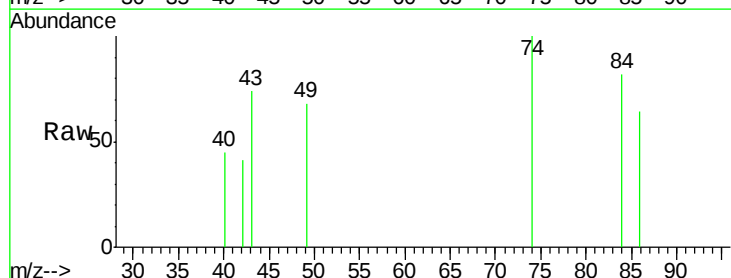
Tgt Ion: 42 Resp: 61

Ion Ratio Lower Upper

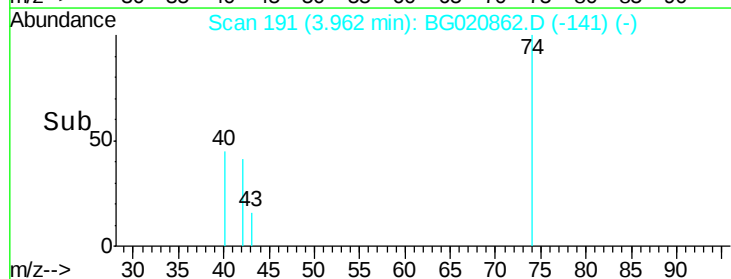
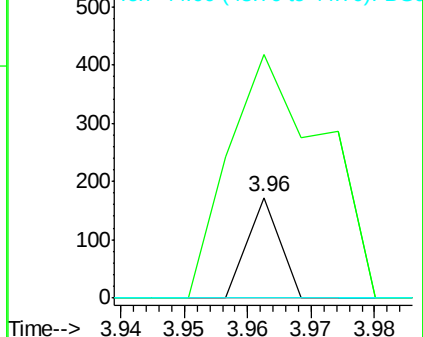
42 100

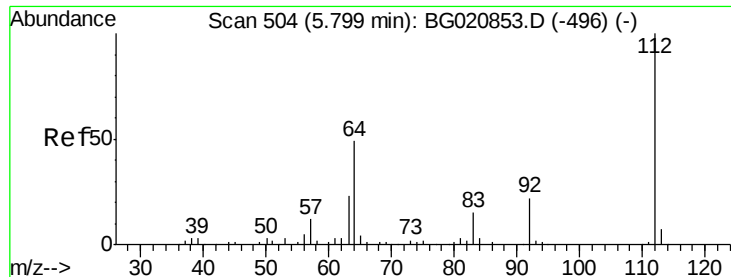
74 243.0 173.8 260.6

44 0.0 6.3 9.5#



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





#5

2-Fluorophenol

Concen: 140.65 ng

RT: 5.80 min Scan# 504

Delta R.T. 0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

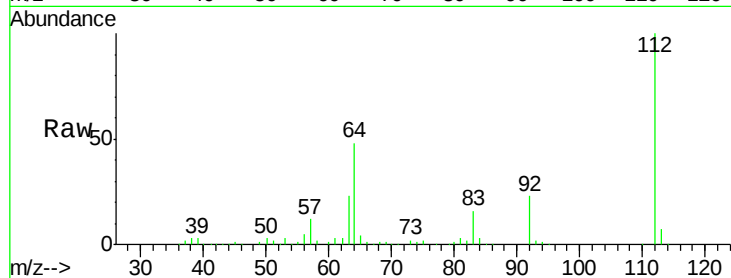
Tgt Ion: 112 Resp: 177808

Ion Ratio Lower Upper

112 100

64 47.6 39.3 58.9

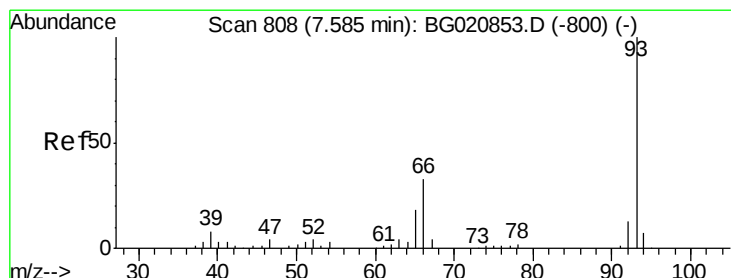
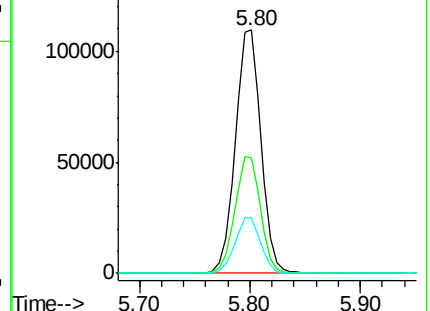
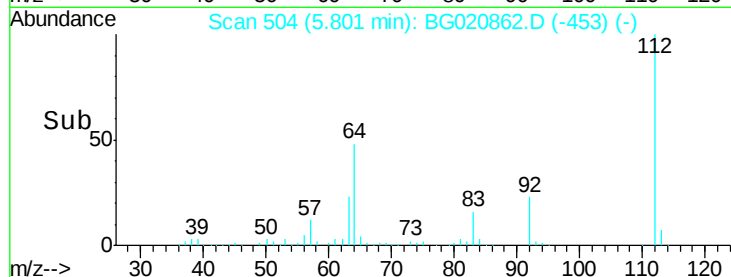
63 22.9 18.2 27.4



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 0.32 ng

RT: 7.58 min Scan# 807

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

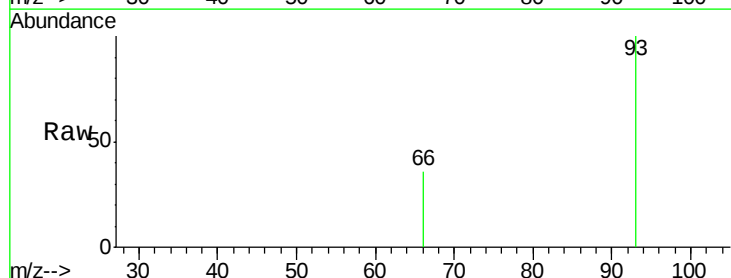
Tgt Ion: 93 Resp: 743

Ion Ratio Lower Upper

93 100

66 36.4 26.6 40.0

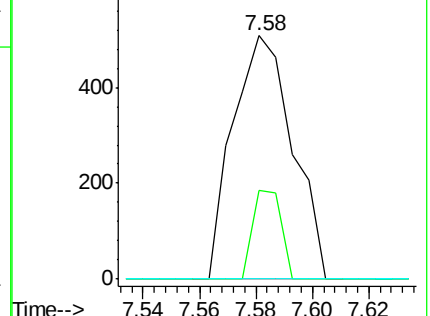
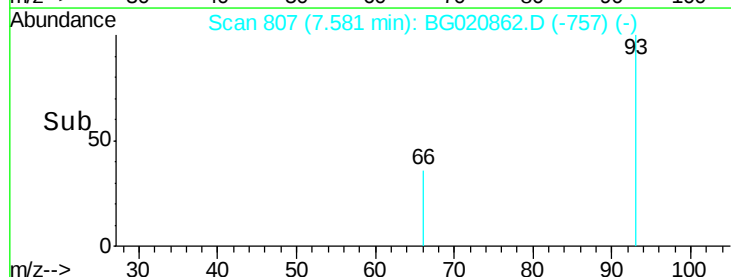
65 0.0 14.0 21.0#

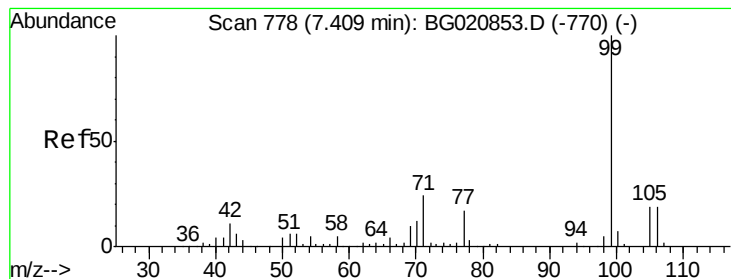


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 135.52 ng

RT: 7.41 min Scan# 778

Delta R.T. 0.00 min

Lab File: BG020862.D

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Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

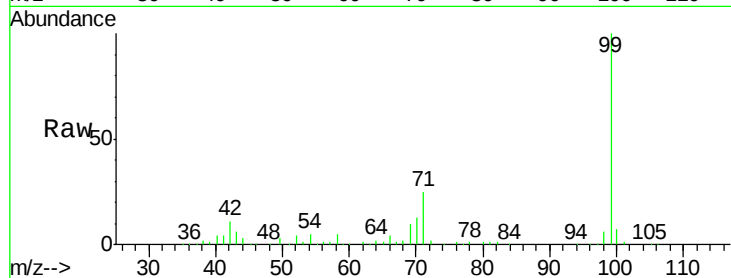
Tgt Ion: 99 Resp: 250396

Ion Ratio Lower Upper

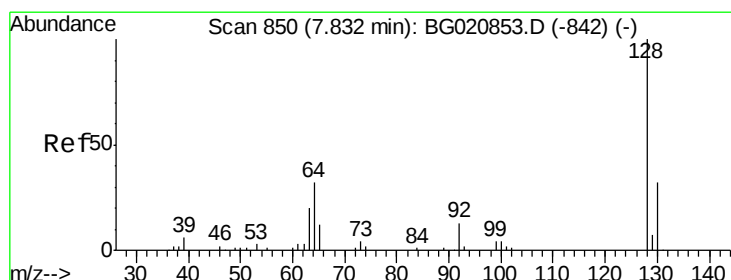
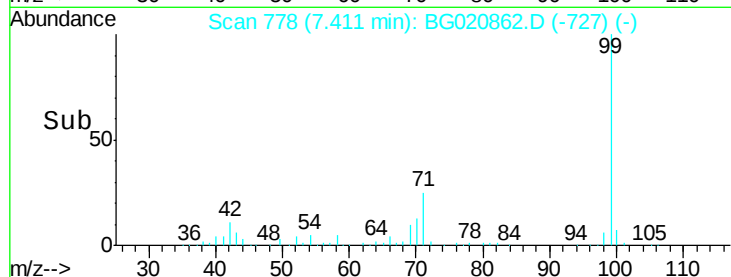
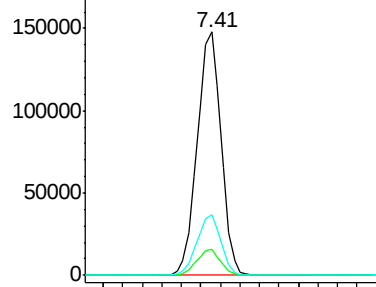
99 100

42 10.5 8.4 12.6

71 24.6 19.4 29.0



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



#8

2-Chlorophenol

Concen: 0.88 ng

RT: 7.83 min Scan# 849

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

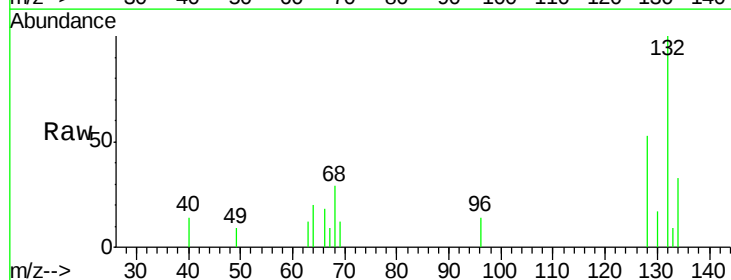
Tgt Ion: 128 Resp: 1387

Ion Ratio Lower Upper

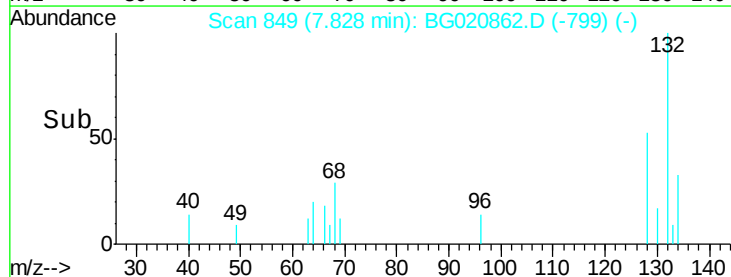
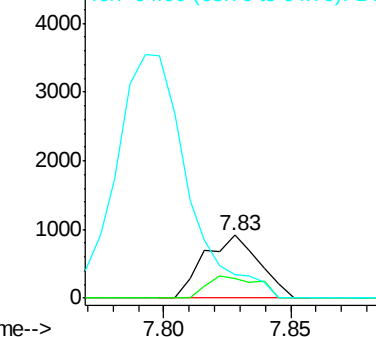
128 100

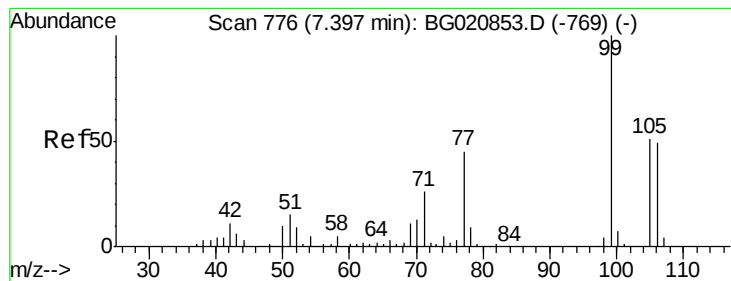
130 31.5 12.3 52.3

64 38.2 15.9 55.9



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





#9

Benzaldehyde

Concen: 1.39 ng

RT: 7.40 min Scan# 776

Delta R.T. 0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

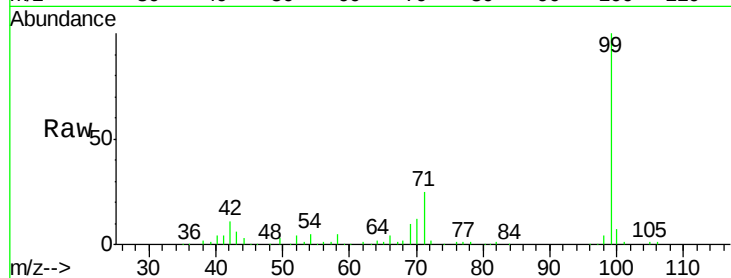
Tgt Ion: 77 Resp: 1282

Ion Ratio Lower Upper

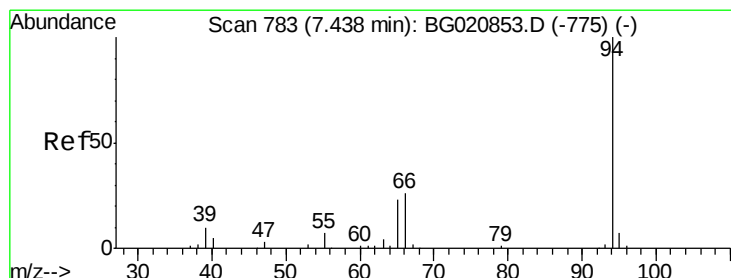
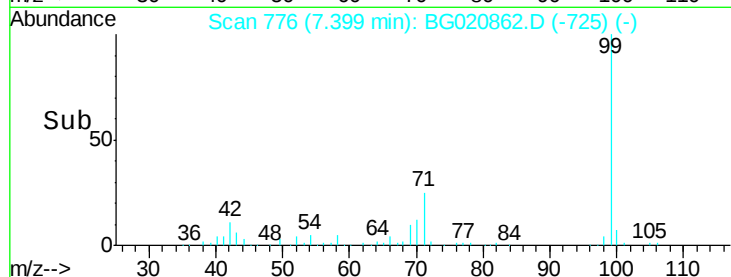
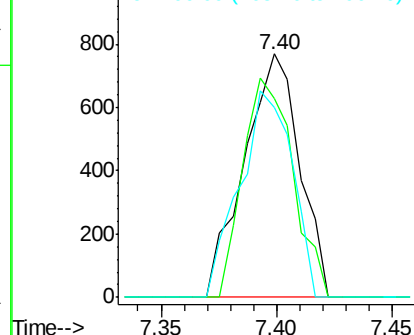
77 100

105 81.5 93.4 133.4#

106 78.2 88.7 128.7#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC



#10

Phenol

Concen: 0.81 ng

RT: 7.43 min Scan# 782

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

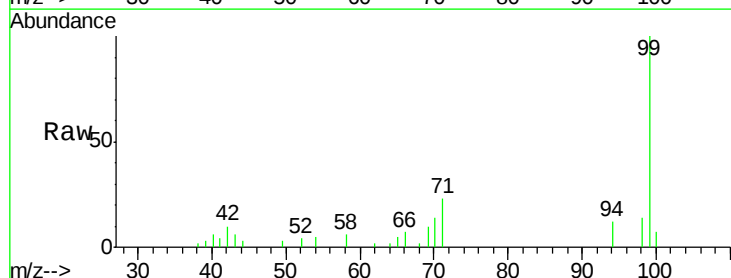
Tgt Ion: 94 Resp: 1592

Ion Ratio Lower Upper

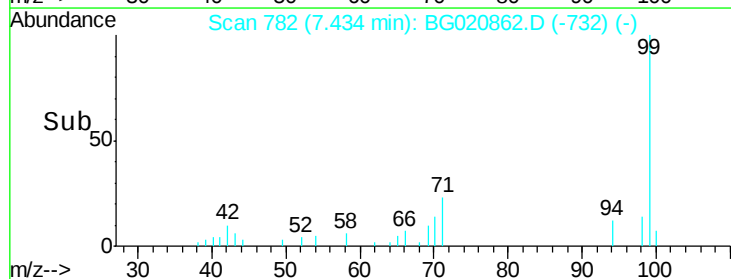
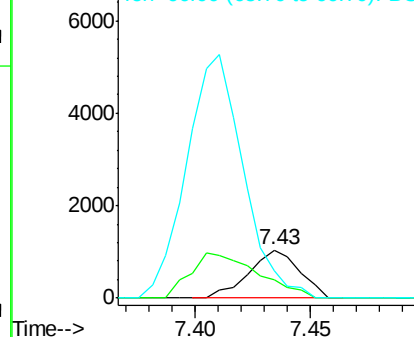
94 100

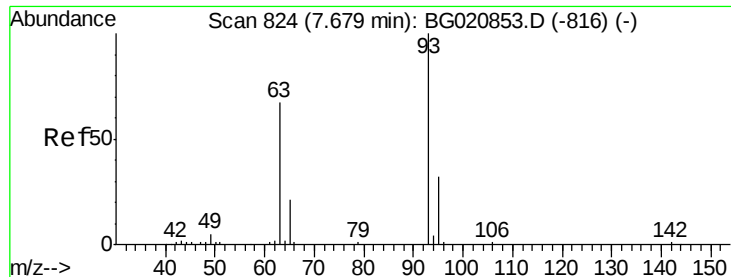
65 38.3 2.8 42.8

66 55.5 7.2 47.2#



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

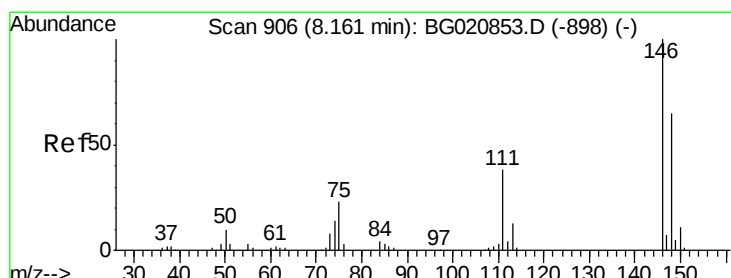
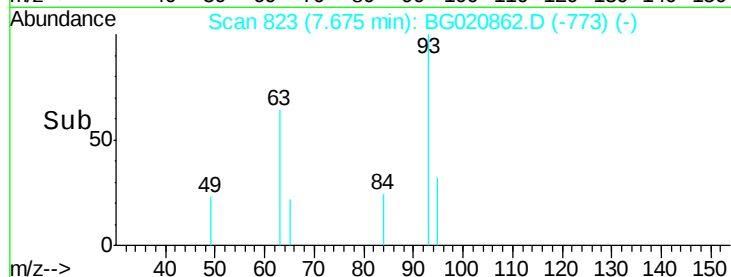
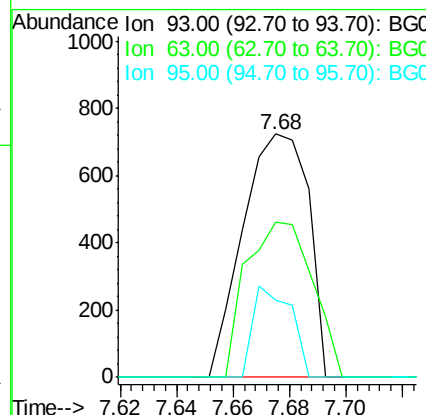
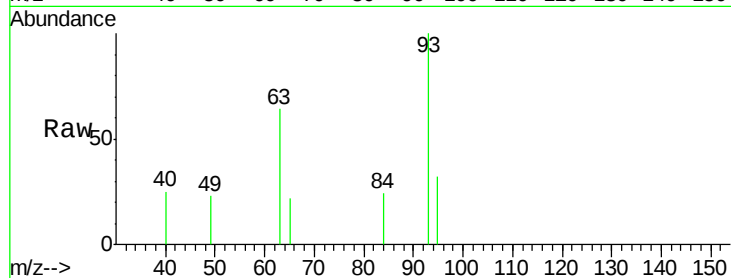




#11  
bis(2-Chloroethyl)ether  
Concen: 0.74 ng  
RT: 7.68 min Scan# 823  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

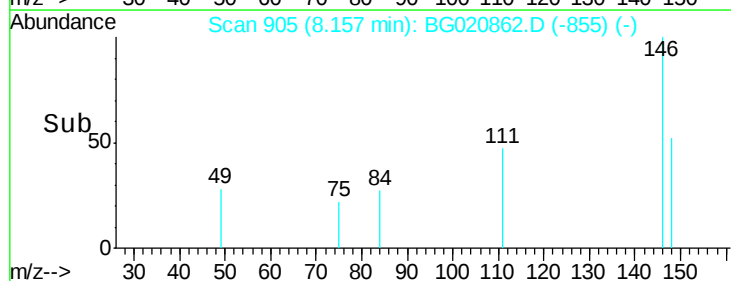
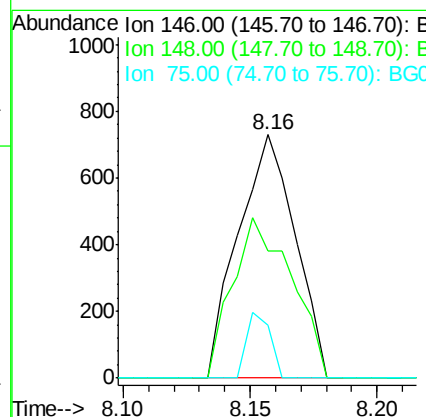
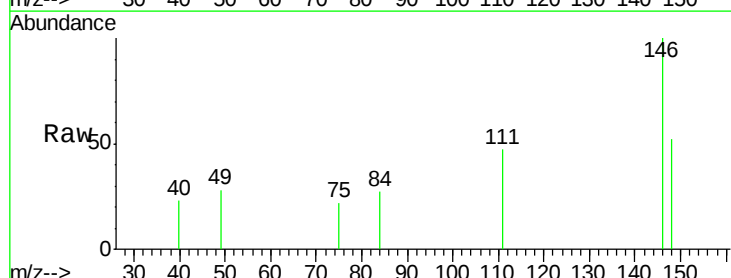
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

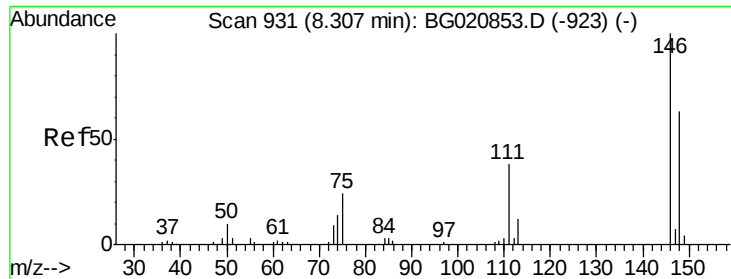
Tgt Ion: 93 Resp: 1161  
Ion Ratio Lower Upper  
93 100  
63 63.9 46.4 86.4  
95 31.9 12.1 52.1



#12  
1,3-Dichlorobenzene  
Concen: 0.68 ng  
RT: 8.16 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion: 146 Resp: 1142  
Ion Ratio Lower Upper  
146 100  
148 52.2 51.8 77.8  
75 21.9 18.7 28.1

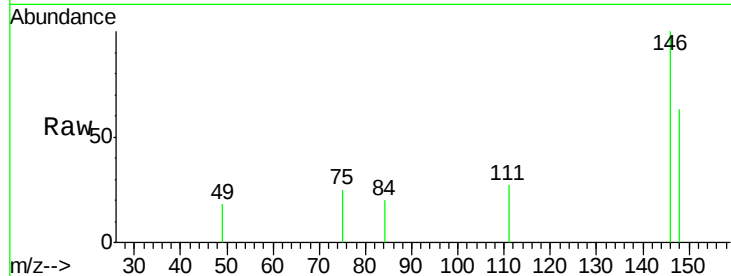




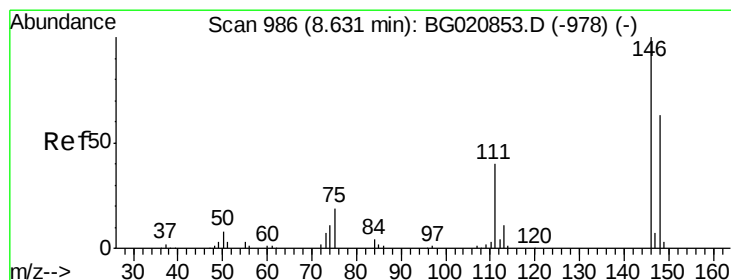
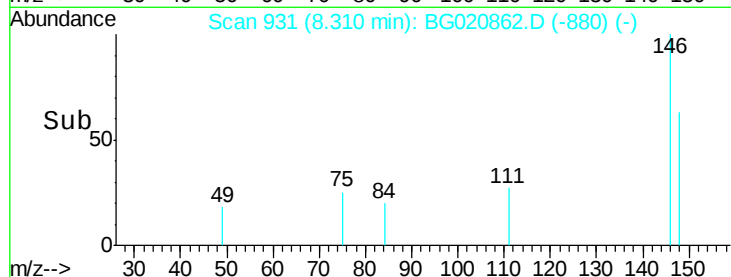
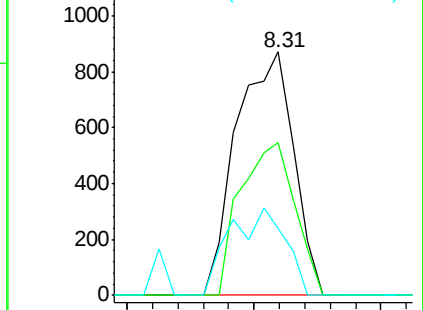
#13  
 1,4-Dichlorobenzene  
 Concen: 0.81 ng  
 RT: 8.31 min Scan# 931  
 Delta R.T. 0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

Tgt Ion:146 Resp: 1371  
 Ion Ratio Lower Upper  
 146 100  
 148 62.8 50.8 76.2  
 111 27.3 30.1 45.1#

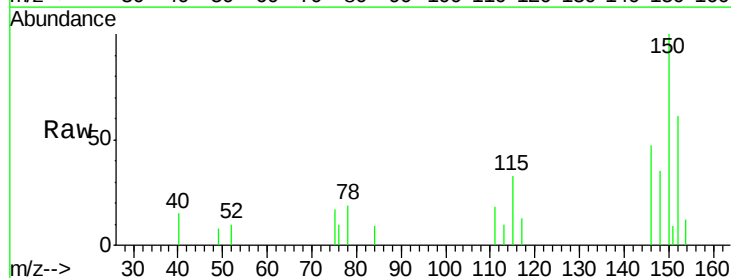


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

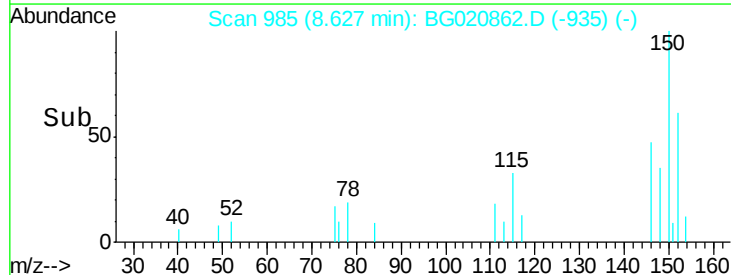
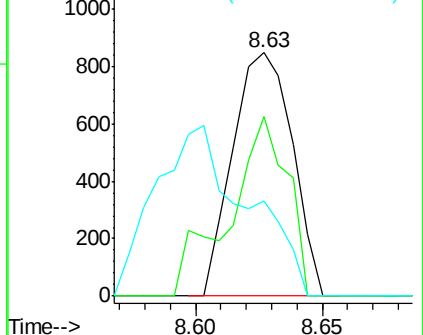


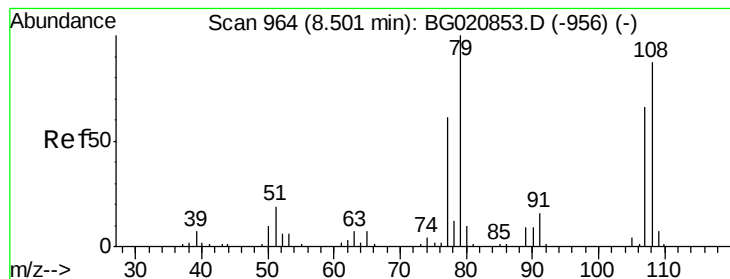
#14  
 1,2-Dichlorobenzene  
 Concen: 0.84 ng  
 RT: 8.63 min Scan# 985  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion:146 Resp: 1387  
 Ion Ratio Lower Upper  
 146 100  
 148 73.6 50.6 76.0  
 111 39.1 32.6 48.8



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





#15

Benzyl Alcohol

Concen: 0.80 ng

RT: 8.50 min Scan# 964

Delta R.T. 0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

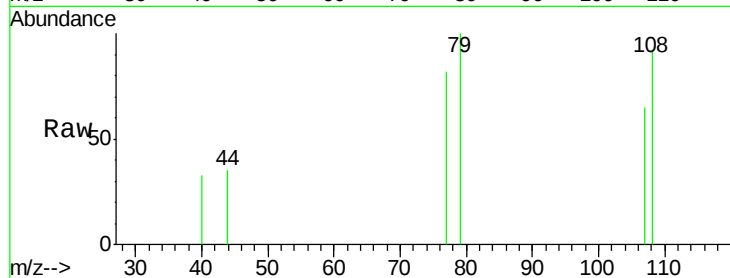
Tgt Ion: 79 Resp: 933

Ion Ratio Lower Upper

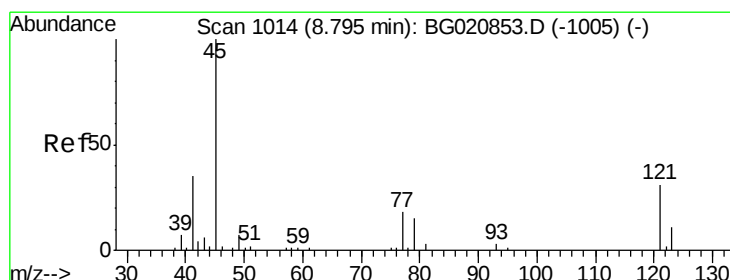
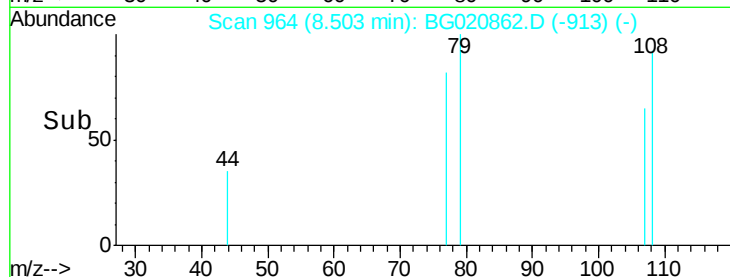
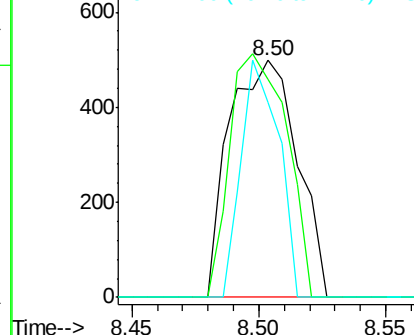
79 100

108 92.0 69.4 104.2

77 82.1 48.6 73.0#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC



#16

2,2'-oxybis(1-Chloropropane)

Concen: 0.79 ng

RT: 8.79 min Scan# 1013

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

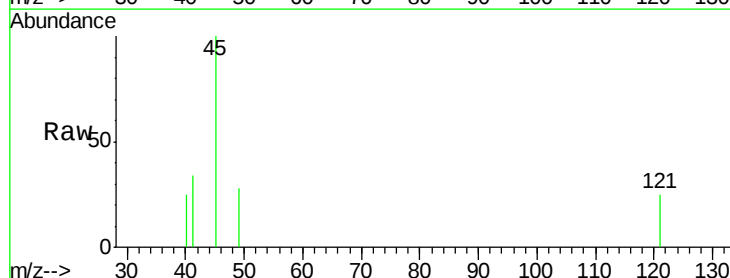
Tgt Ion: 45 Resp: 1282

Ion Ratio Lower Upper

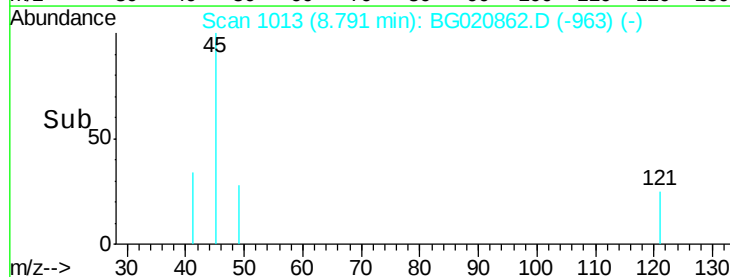
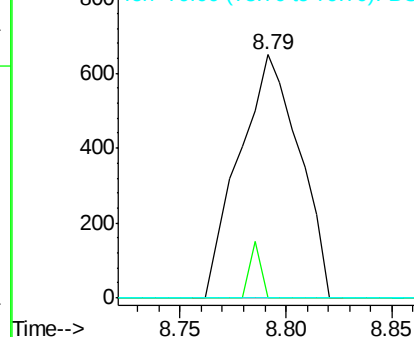
45 100

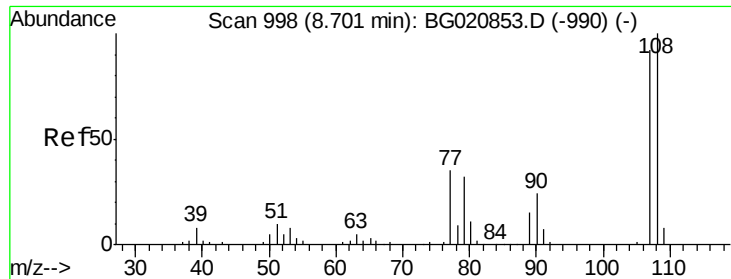
77 0.0 0.0 38.5

79 0.0 0.0 34.9



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

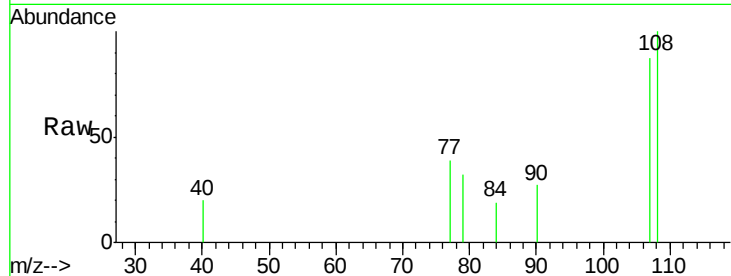




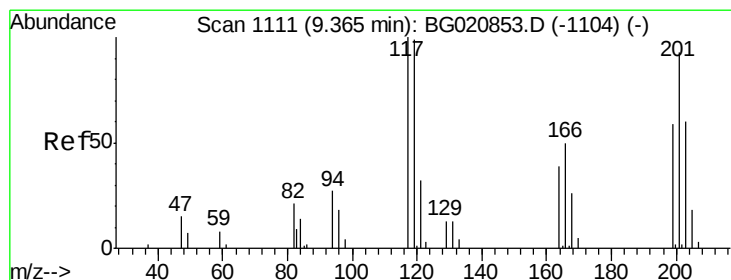
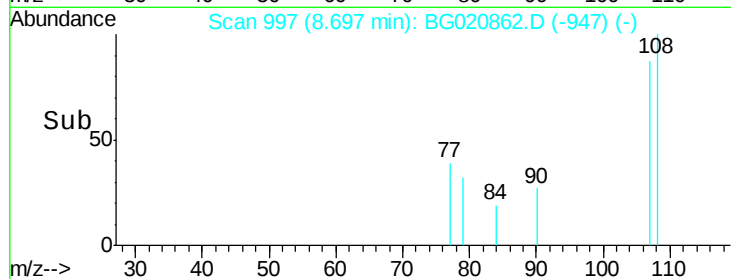
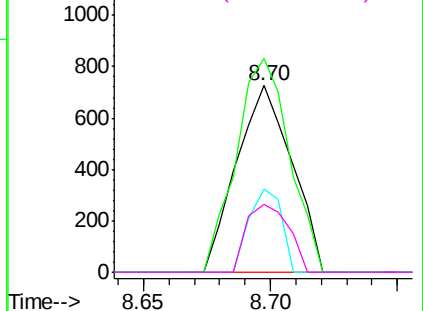
#17  
2-Methylphenol  
Concen: 0.78 ng  
RT: 8.70 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

Tgt Ion:107 Resp: 1104  
Ion Ratio Lower Upper  
107 100  
108 114.6 87.0 130.4  
77 44.8 30.1 45.1  
79 36.4 27.4 41.2

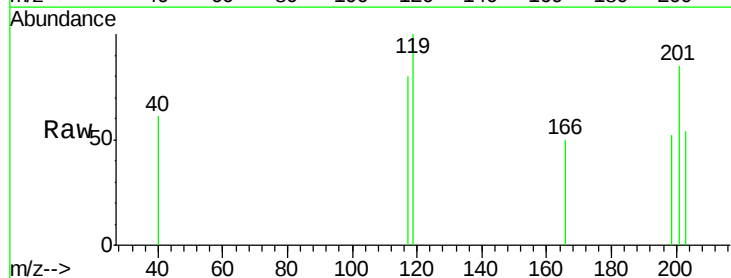


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BG  
Ion 79.00 (78.70 to 79.70): BG

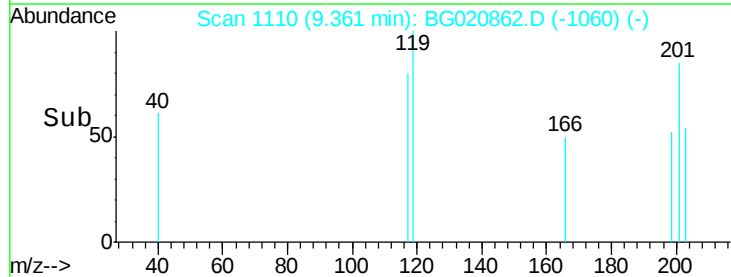
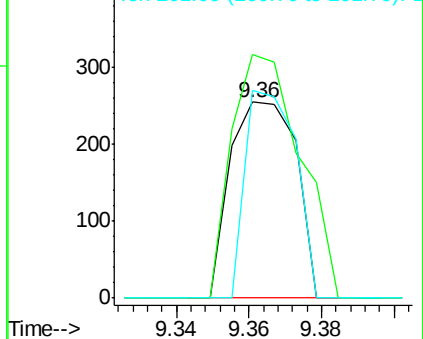


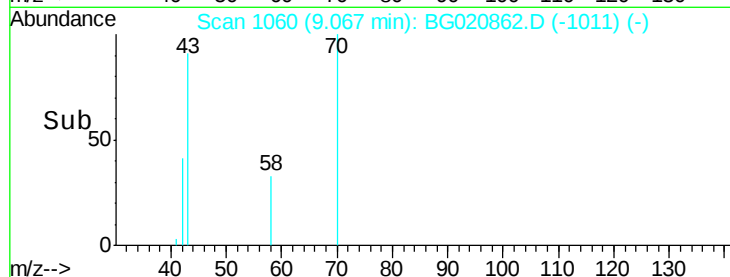
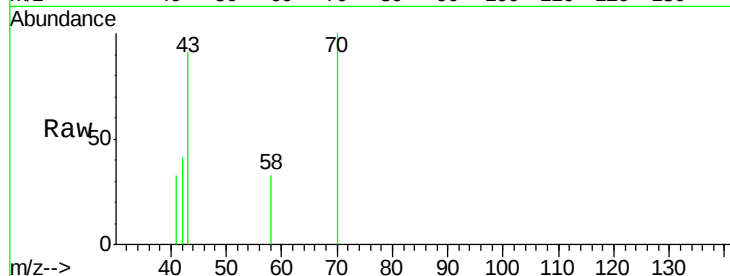
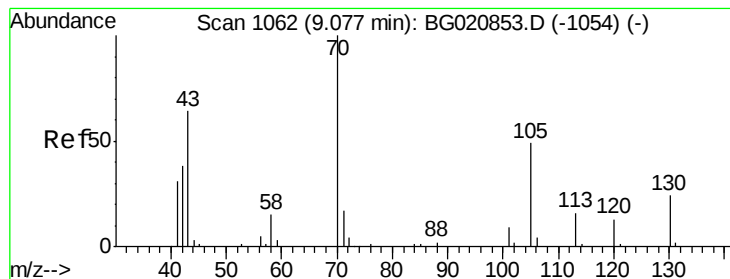
#18  
Hexachloroethane  
Concen: 0.55 ng  
RT: 9.36 min Scan# 1110  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion:117 Resp: 321  
Ion Ratio Lower Upper  
117 100  
119 124.3 79.6 119.4#  
201 105.9 74.5 111.7



Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 0.72 ng

RT: 9.07 min Scan# 1060

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

Tgt Ion: 70 Resp: 862

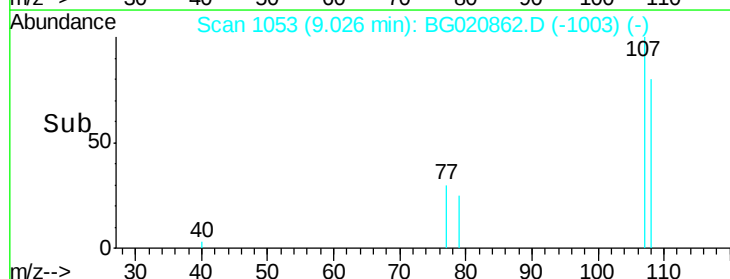
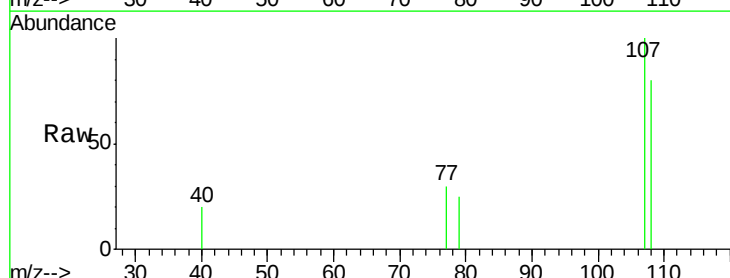
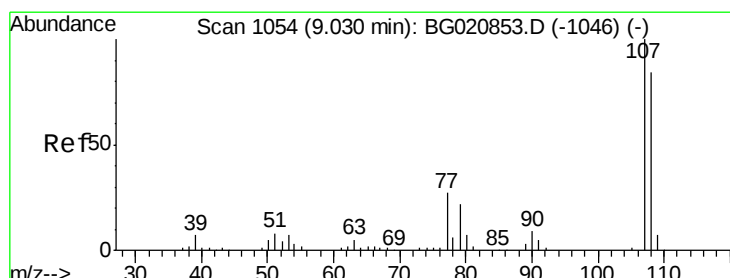
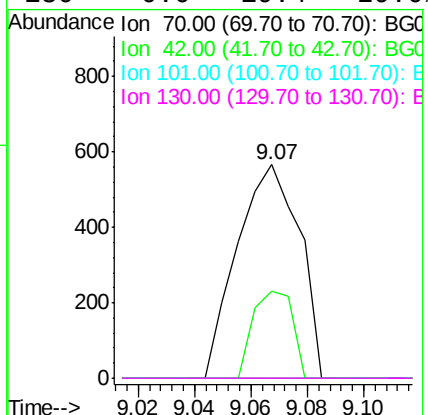
Ion Ratio Lower Upper

70 100

42 41.0 30.9 46.3

101 0.0 7.3 10.9#

130 0.0 19.4 29.0#



#20

3+4-Methylphenols

Concen: 0.85 ng

RT: 9.03 min Scan# 1053

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Tgt Ion: 107 Resp: 1675

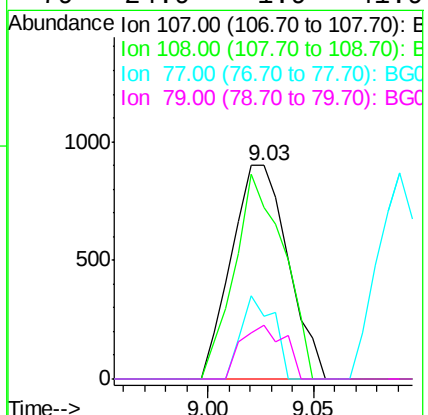
Ion Ratio Lower Upper

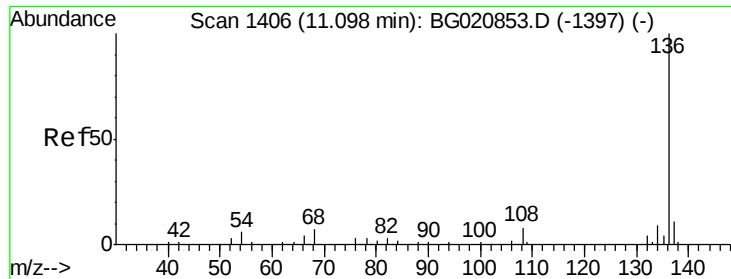
107 100

108 80.1 64.4 104.4

77 29.7 7.1 47.1

79 24.9 1.9 41.9

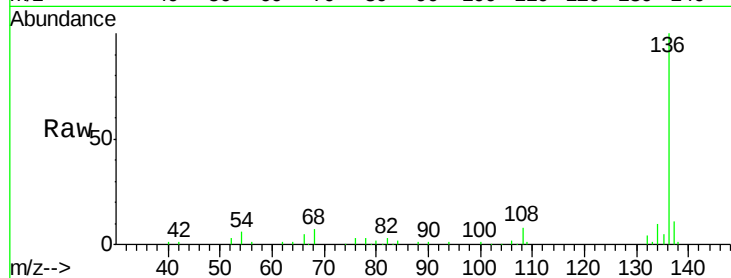




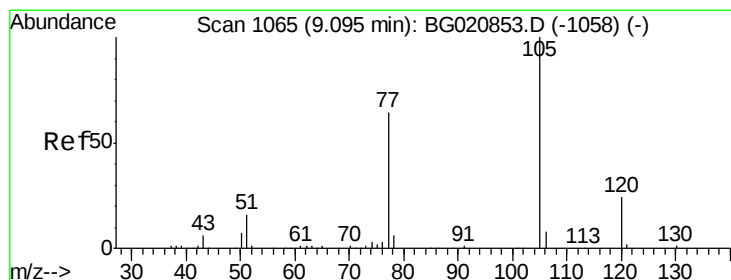
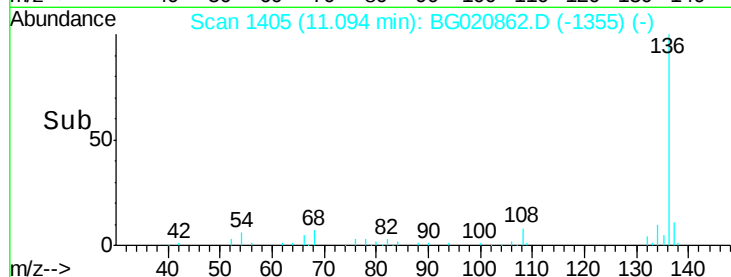
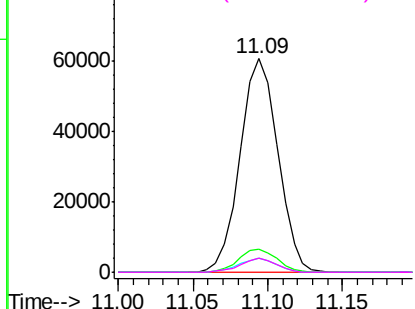
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.09 min Scan# 1405  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 106156 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.8   | 13.2   |
| 54       | 6.3   | 5.0   | 7.4    |
| 68       | 6.6   | 5.2   | 7.8    |

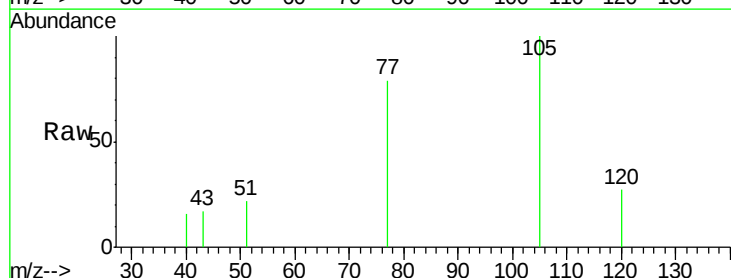


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

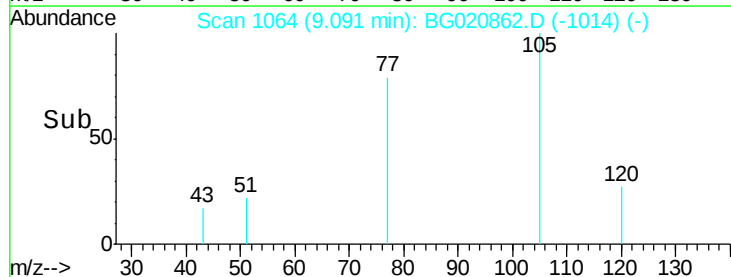
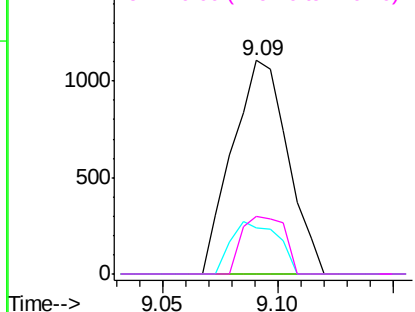


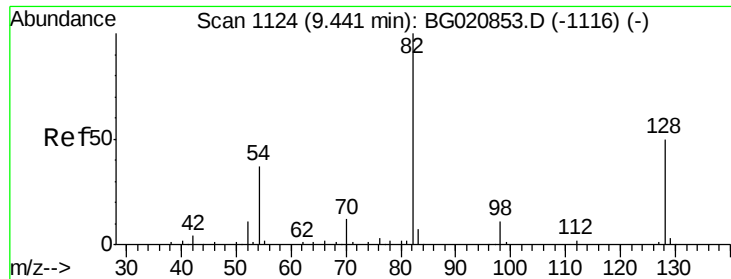
#22  
Acetophenone  
Concen: 0.72 ng  
RT: 9.09 min Scan# 1064  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 1843  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 1.4   | 2.0#  |
| 51       | 21.7  | 13.7  | 20.5# |
| 120      | 26.8  | 19.0  | 28.6  |



Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BGC  
Ion 51.00 (50.70 to 51.70): BGC  
Ion 120.00 (119.70 to 120.70): E

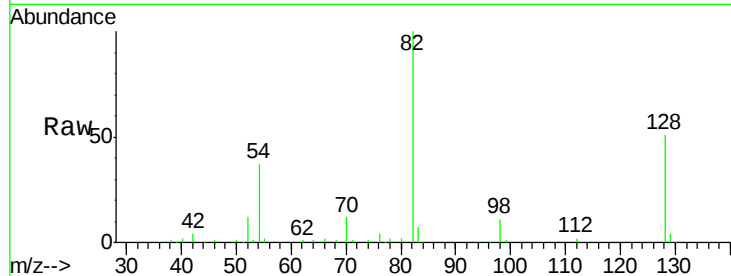




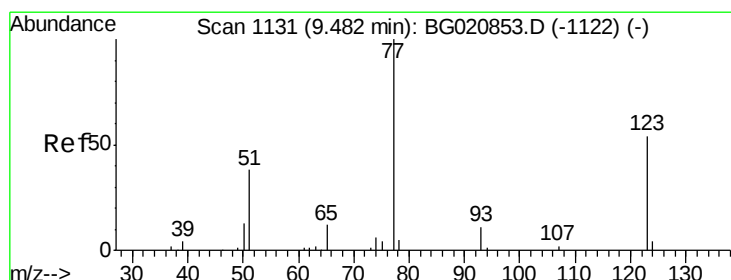
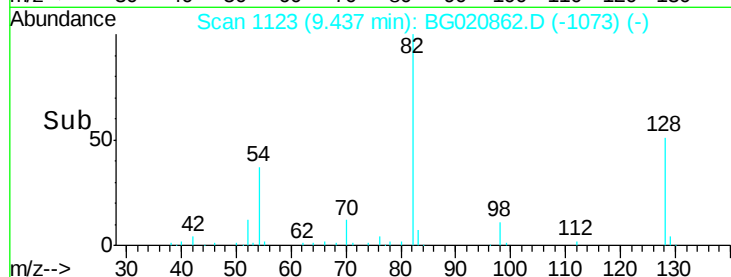
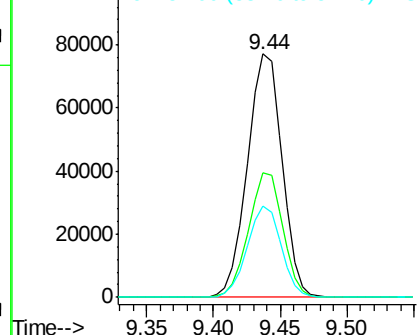
#23  
Nitrobenzene-d5  
Concen: 85.56 ng  
RT: 9.44 min Scan# 1123  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

Tgt Ion: 82 Resp: 138145  
Ion Ratio Lower Upper  
82 100  
128 51.3 40.1 60.1  
54 37.3 29.5 44.3

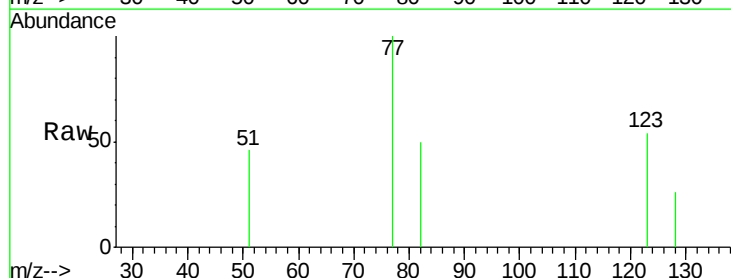


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

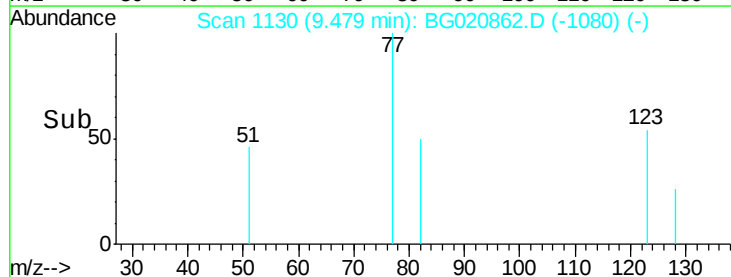
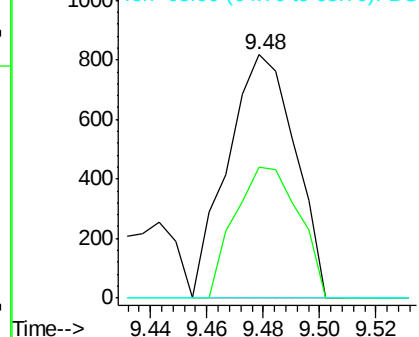


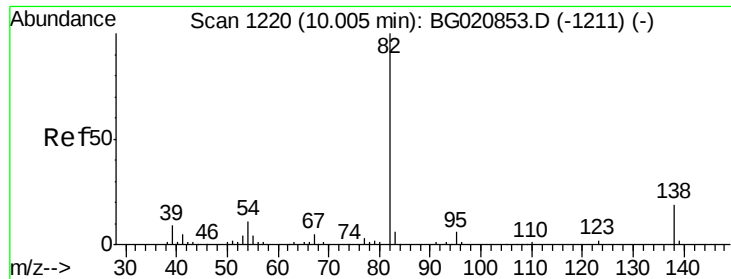
#24  
Nitrobenzene  
Concen: 0.80 ng  
RT: 9.48 min Scan# 1130  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion: 77 Resp: 1350  
Ion Ratio Lower Upper  
77 100  
123 53.5 43.2 64.8  
65 0.0 9.2 13.8#



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





#25

Isophorone

Concen: 0.80 ng

RT: 10.00 min Scan# 1219

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

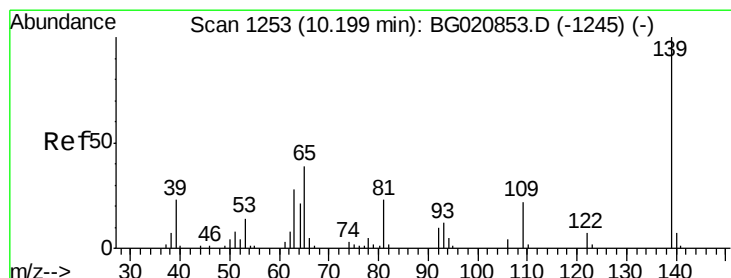
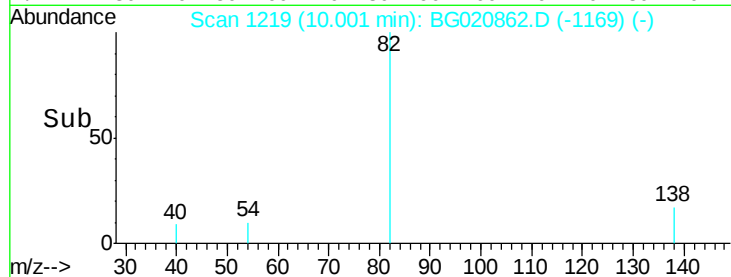
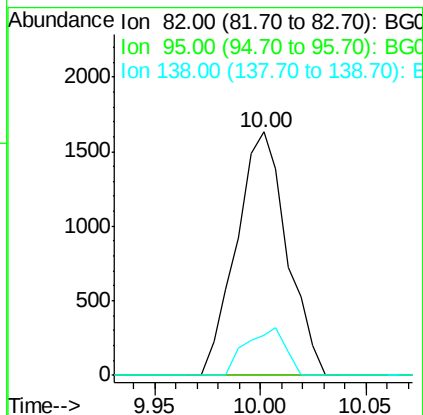
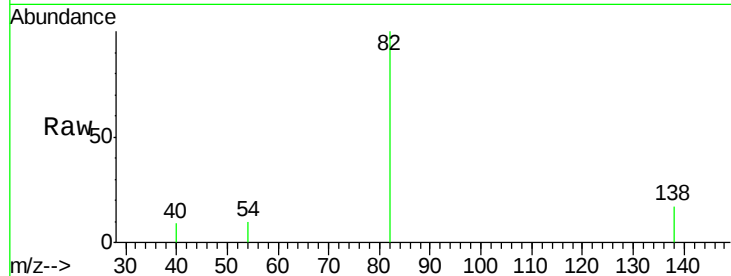
Tgt Ion: 82 Resp: 2707

Ion Ratio Lower Upper

82 100

95 0.0 4.8 7.2#

138 16.5 15.4 23.0



#26

2-Nitrophenol

Concen: 0.61 ng

RT: 10.20 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

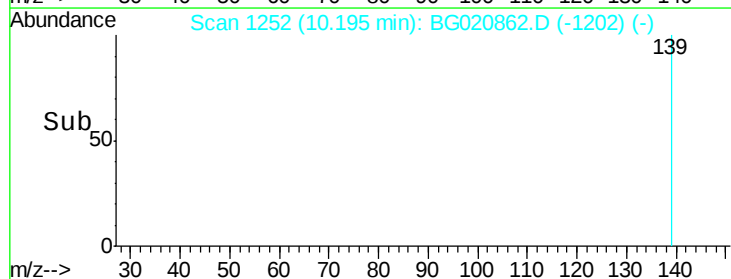
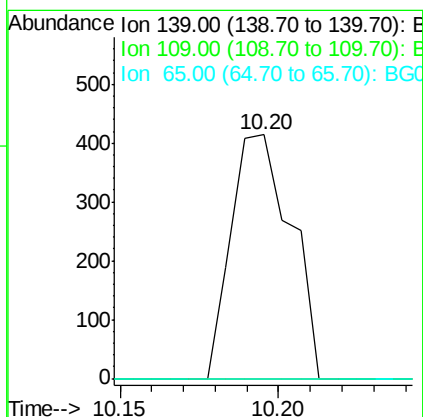
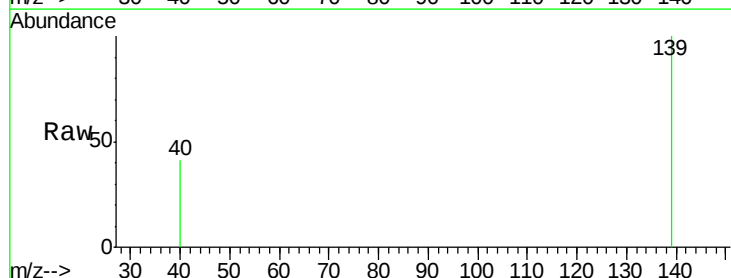
Tgt Ion: 139 Resp: 539

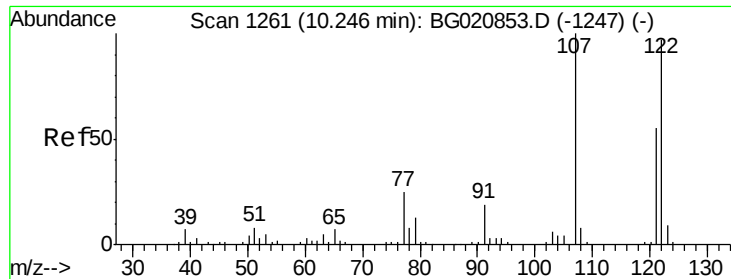
Ion Ratio Lower Upper

139 100

109 0.0 17.6 26.4#

65 0.0 31.0 46.6#

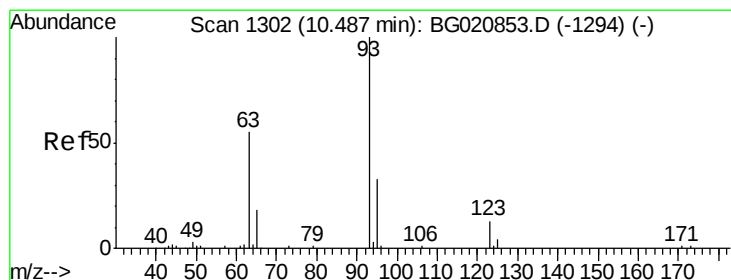
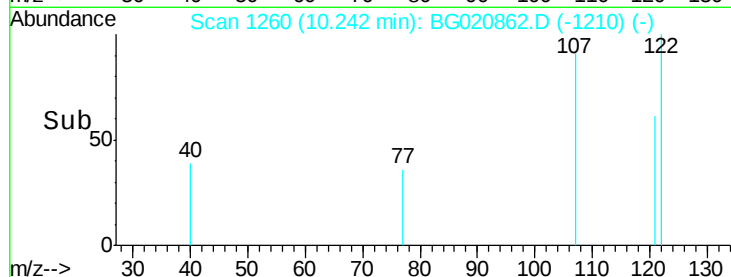
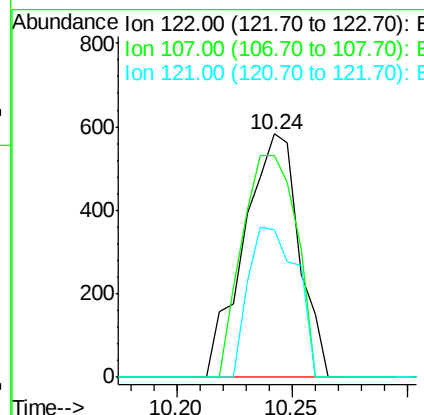
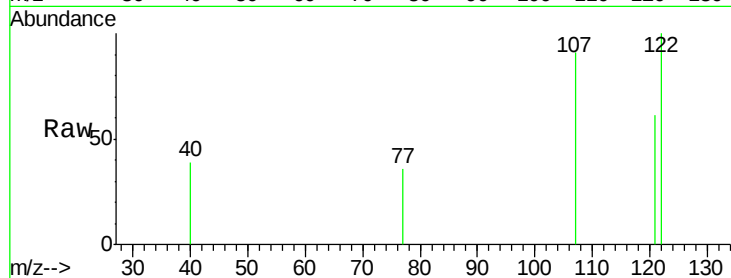




#27  
 2,4-Dimethylphenol  
 Concen: 0.57 ng  
 RT: 10.24 min Scan# 1260  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

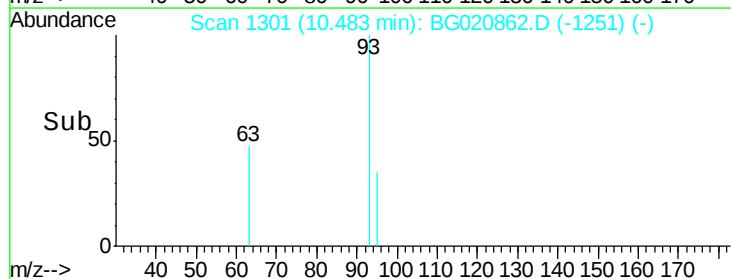
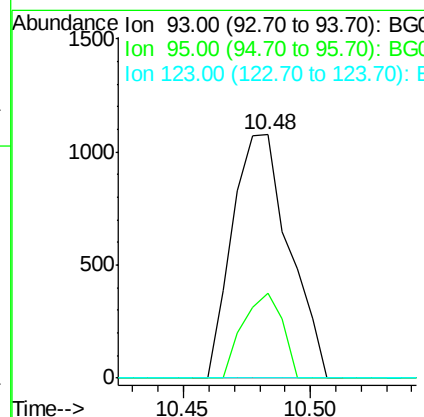
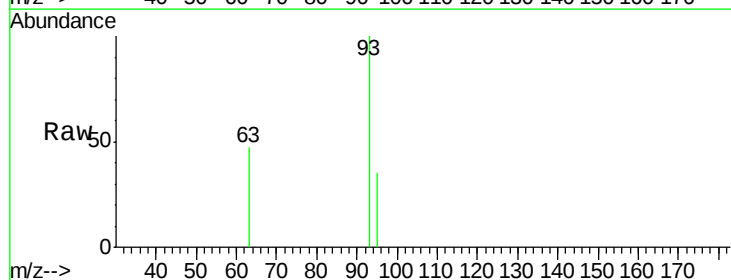
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

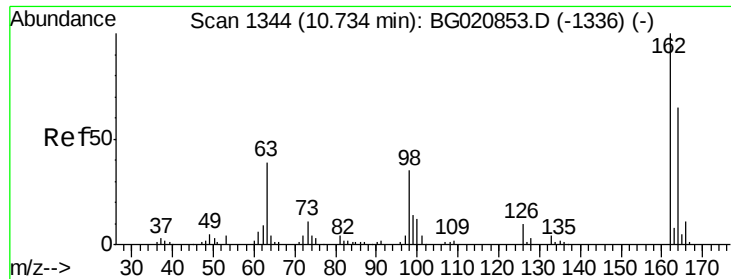
Tgt Ion: 122 Resp: 970  
 Ion Ratio Lower Upper  
 122 100  
 107 91.3 82.6 124.0  
 121 60.5 45.6 68.4



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 0.80 ng  
 RT: 10.48 min Scan# 1301  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion: 93 Resp: 1678  
 Ion Ratio Lower Upper  
 93 100  
 95 34.6 26.2 39.2  
 123 0.0 10.0 15.0#

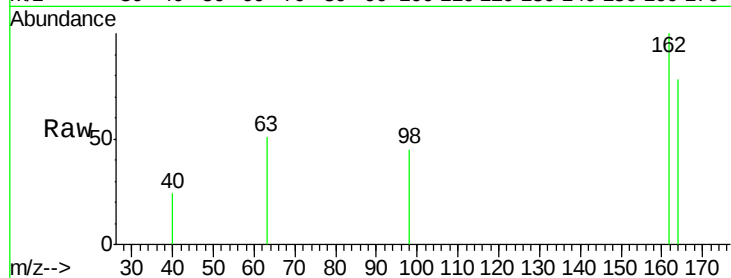




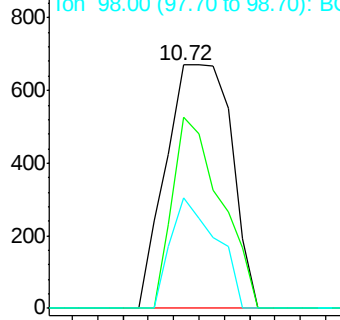
#29  
2,4-Dichlorophenol  
Concen: 0.79 ng  
RT: 10.72 min Scan# 1342  
Delta R.T. -0.01 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

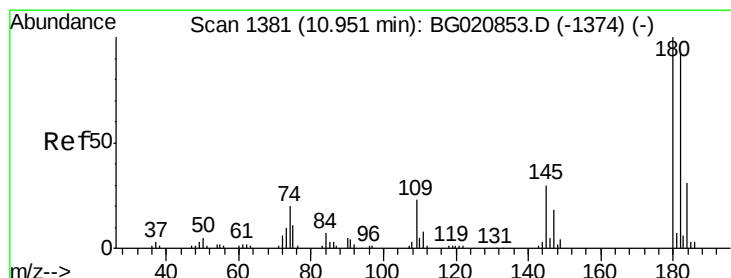
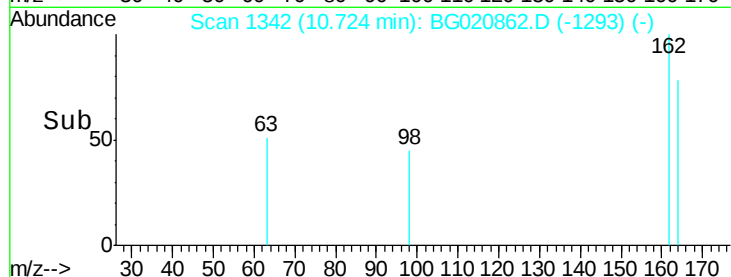
Tgt Ion:162 Resp: 1206  
Ion Ratio Lower Upper  
162 100  
164 78.4 44.5 84.5  
98 45.2 14.9 54.9



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

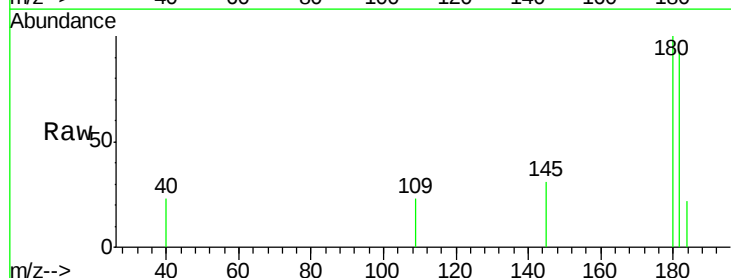


Time-->

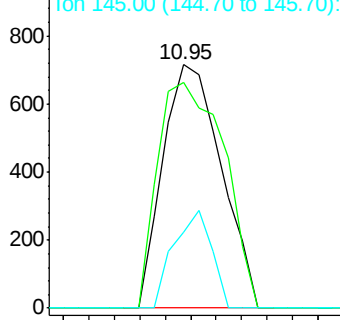


#30  
1,2,4-Trichlorobenzene  
Concen: 0.75 ng  
RT: 10.95 min Scan# 1380  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

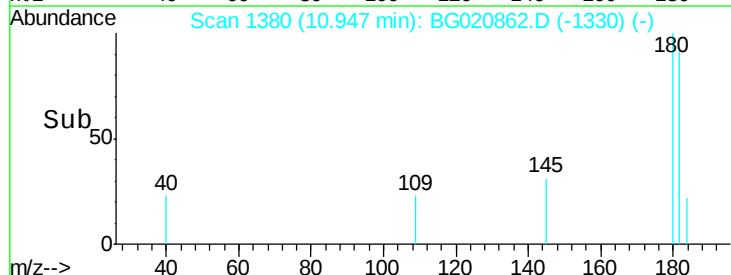
Tgt Ion:180 Resp: 1148  
Ion Ratio Lower Upper  
180 100  
182 92.7 74.1 111.1  
145 31.1 24.1 36.1

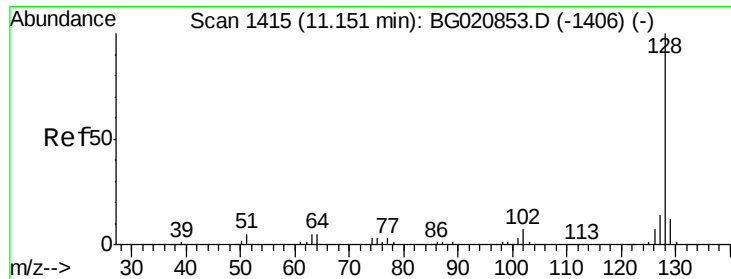


Abundance Ion 180.00 (179.70 to 180.70): E  
Ion 182.00 (181.70 to 182.70): E  
Ion 145.00 (144.70 to 145.70): E



Time-->

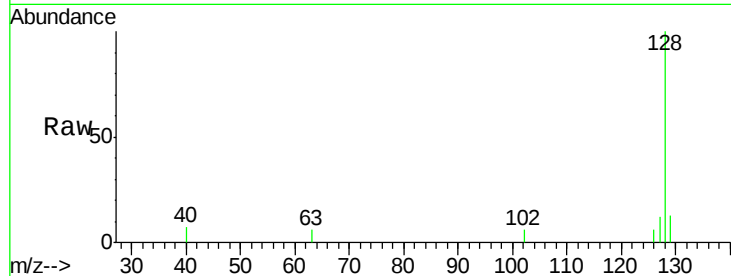




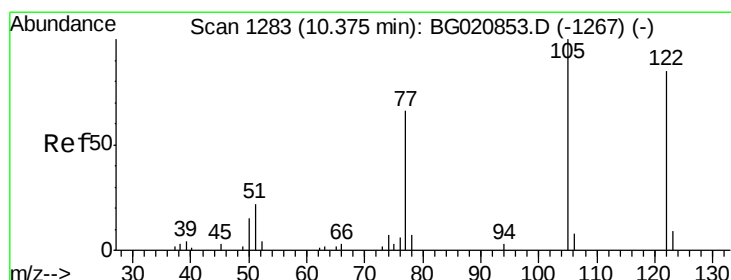
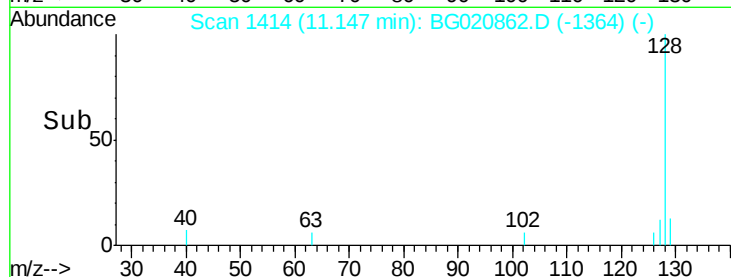
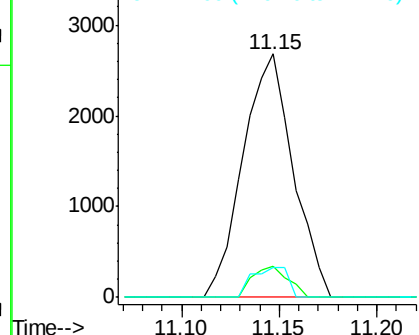
#31  
Naphthalene  
Concen: 0.86 ng  
RT: 11.15 min Scan# 1414  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

Tgt Ion:128 Resp: 4743  
Ion Ratio Lower Upper  
128 100  
129 12.6 9.3 13.9  
127 12.4 11.4 17.2

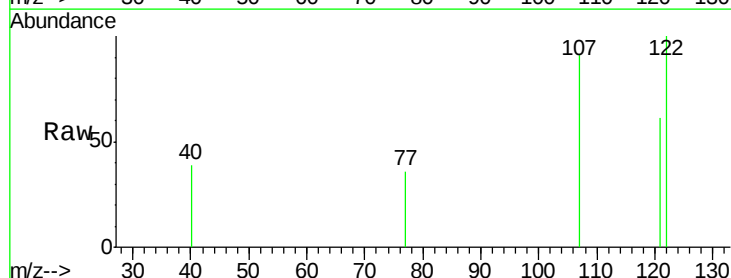


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

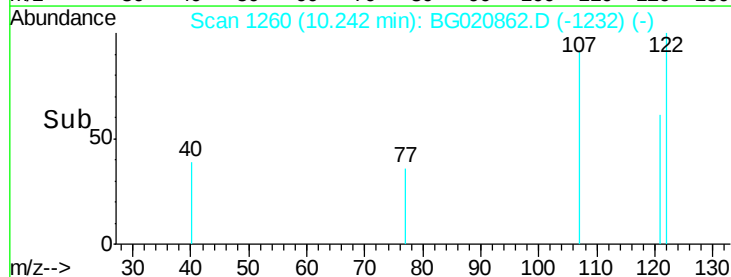
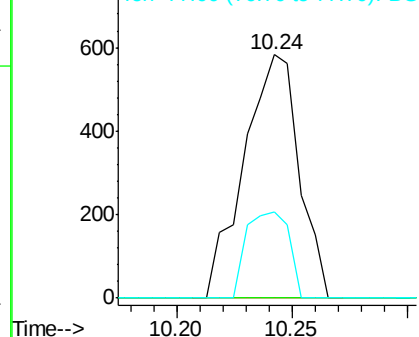


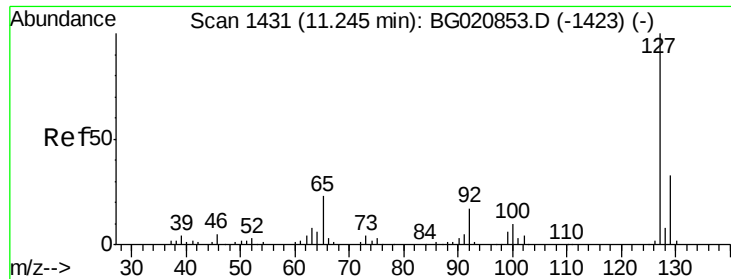
#32  
Benzoic acid  
Concen: 0.71 ng  
RT: 10.24 min Scan# 1260  
Delta R.T. -0.13 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion:122 Resp: 970  
Ion Ratio Lower Upper  
122 100  
105 0.0 94.0 134.0#  
77 35.7 56.8 96.8#



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BG

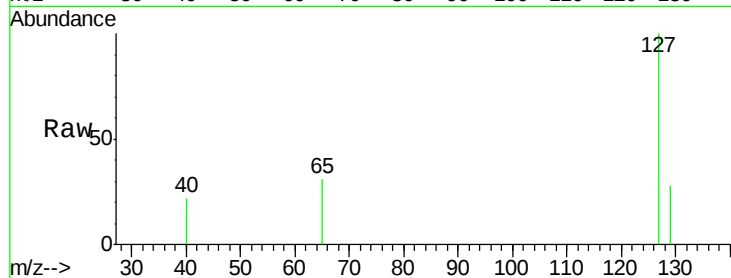




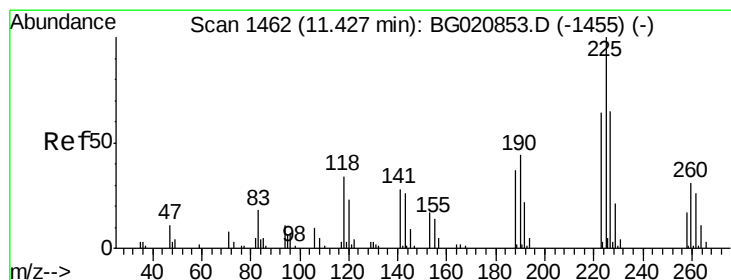
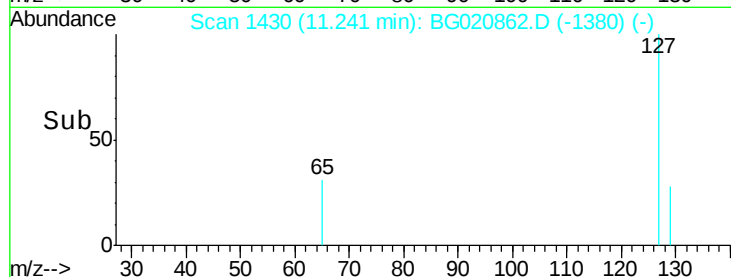
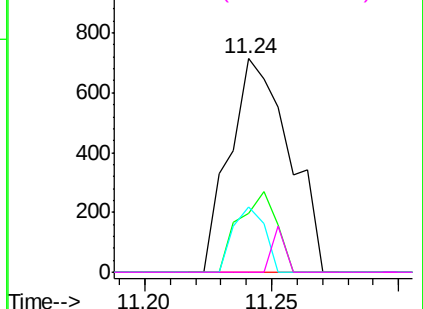
#33  
4-Chloroaniline  
Concen: 0.50 ng  
RT: 11.24 min Scan# 1430  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

Tgt Ion:127 Resp: 1170  
Ion Ratio Lower Upper  
127 100  
129 27.6 26.2 39.4  
65 30.7 18.6 27.8#  
92 0.0 13.3 19.9#

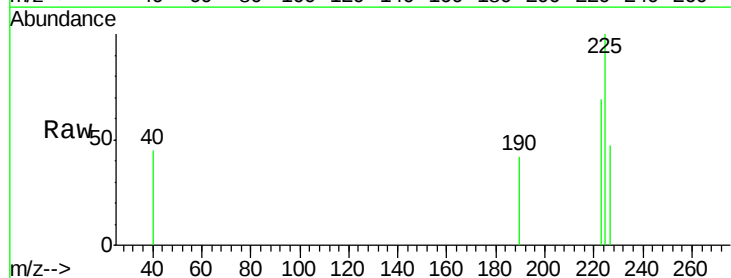


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BG  
Ion 92.00 (91.70 to 92.70): BG

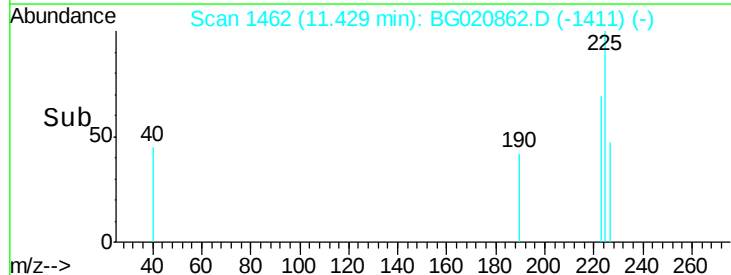
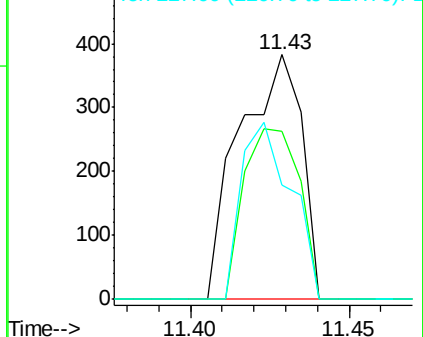


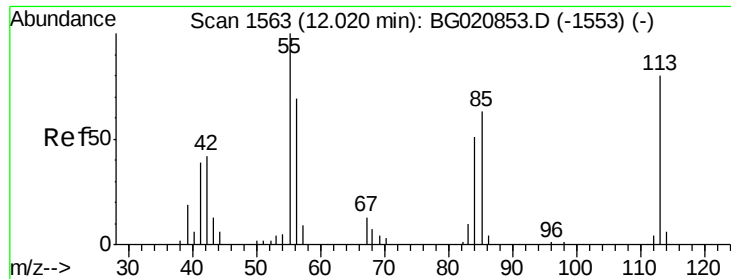
#34  
Hexachlorobutadiene  
Concen: 0.66 ng  
RT: 11.43 min Scan# 1462  
Delta R.T. 0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion:225 Resp: 519  
Ion Ratio Lower Upper  
225 100  
223 68.7 51.0 76.6  
227 46.7 51.7 77.5#



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: 0.10 ng

RT: 12.00 min Scan# 1559

Delta R.T. -0.02 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

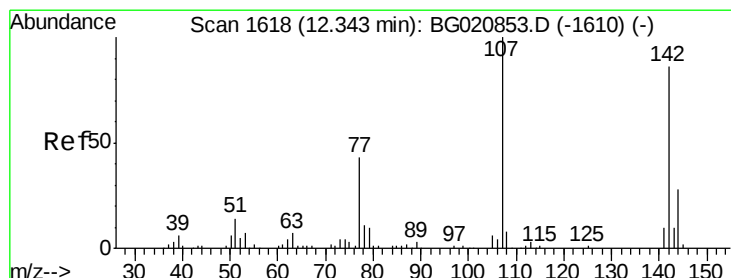
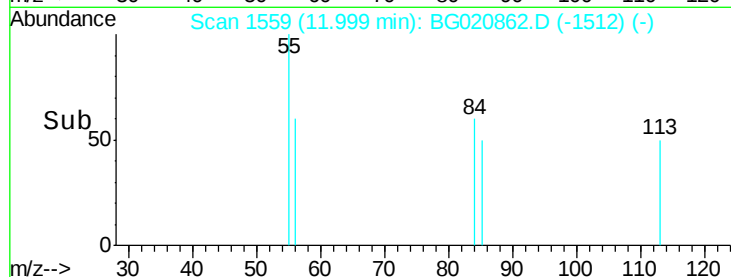
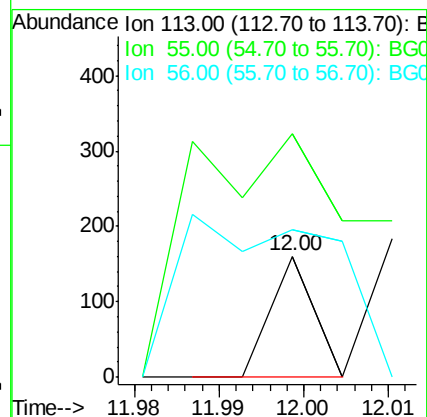
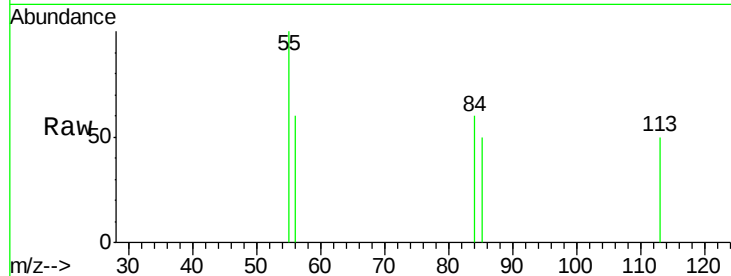
Tgt Ion:113 Resp: 56

Ion Ratio Lower Upper

113 100

55 201.9 104.4 144.4#

56 121.9 65.4 105.4#



#36

4-Chloro-3-methylphenol

Concen: 0.75 ng

RT: 12.34 min Scan# 1617

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

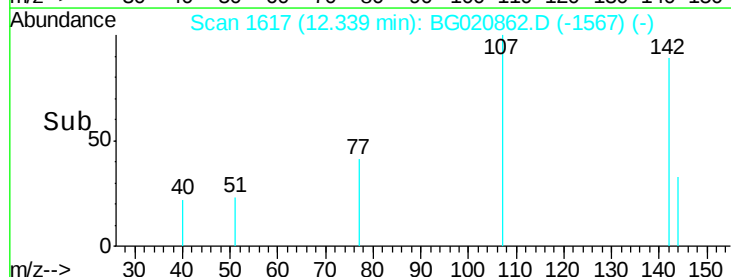
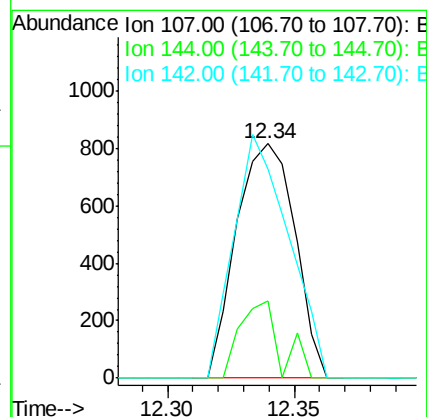
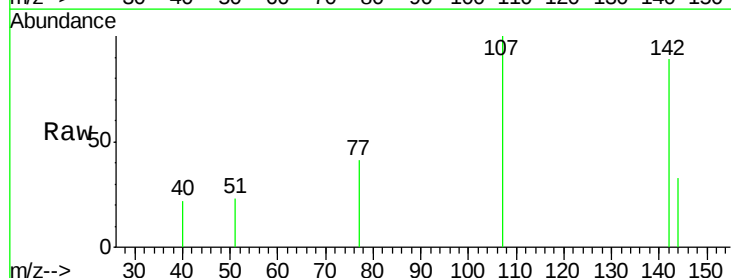
Tgt Ion:107 Resp: 1315

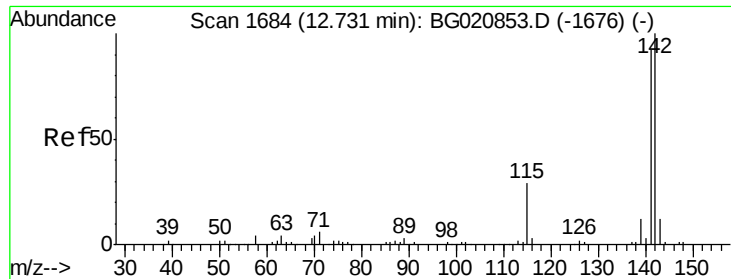
Ion Ratio Lower Upper

107 100

144 33.1 22.4 33.6

142 89.1 68.6 103.0

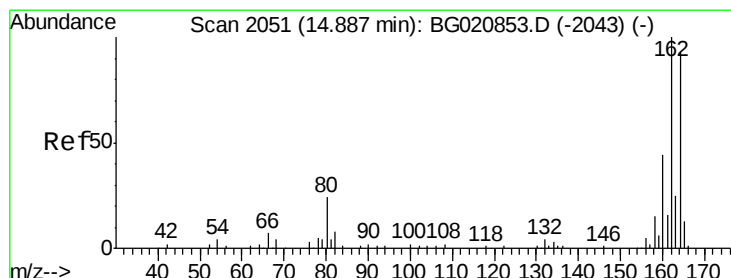
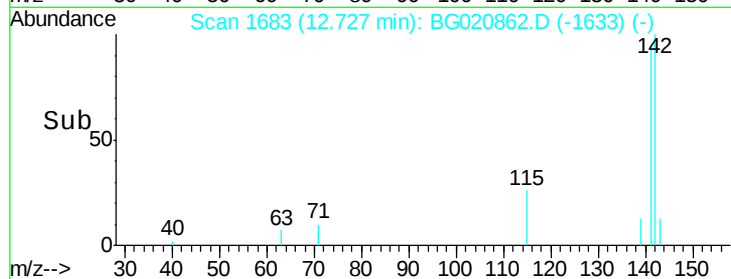
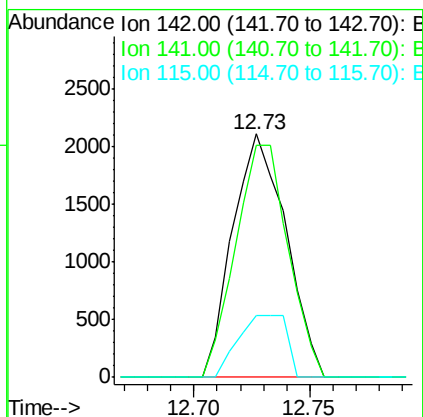
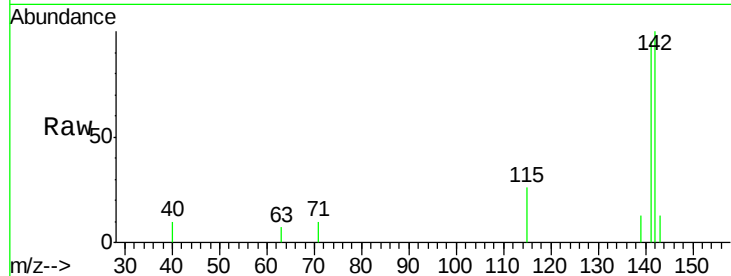




#37  
2-Methylnaphthalene  
Concen: 0.88 ng  
RT: 12.73 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

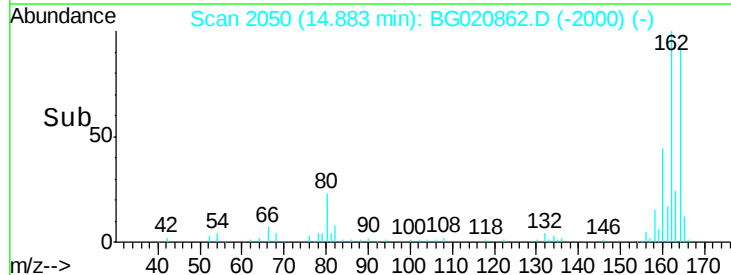
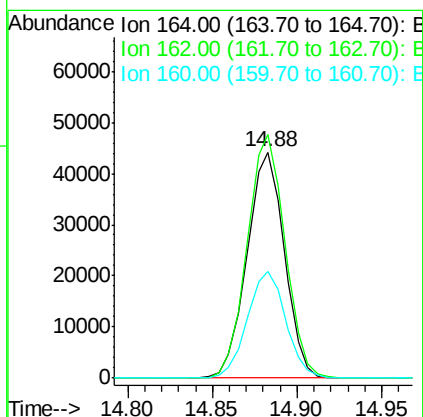
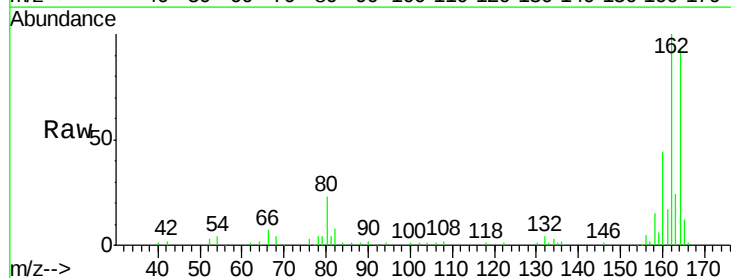
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

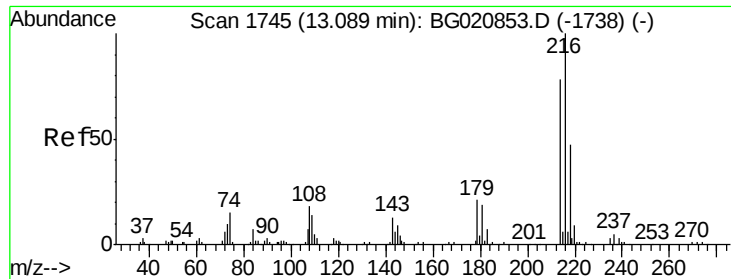
Tgt Ion:142 Resp: 3381  
Ion Ratio Lower Upper  
142 100  
141 95.1 73.4 110.2  
115 25.6 23.0 34.6



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.88 min Scan# 2050  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion:164 Resp: 67729  
Ion Ratio Lower Upper  
164 100  
162 107.6 85.7 128.5  
160 47.1 37.4 56.0





#39

1,2,4,5-Tetrachlorobenzene

Concen: 0.71 ng

RT: 13.09 min Scan# 1744

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

Tgt Ion:216 Resp: 1415

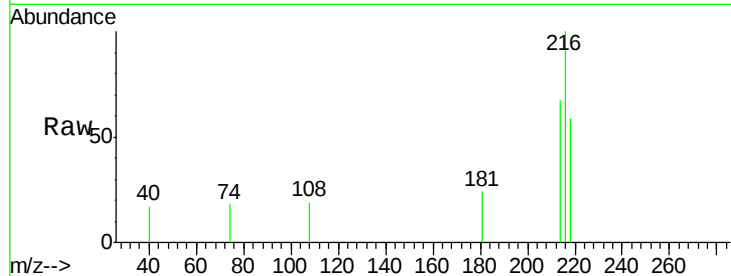
Ion Ratio Lower Upper

216 100

214 74.7 61.9 92.9

179 6.1 16.5 24.7#

108 4.3 15.1 22.7#

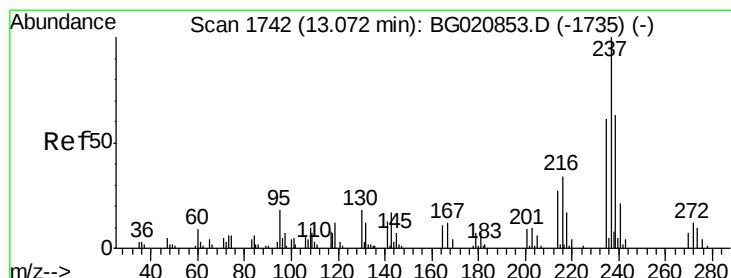
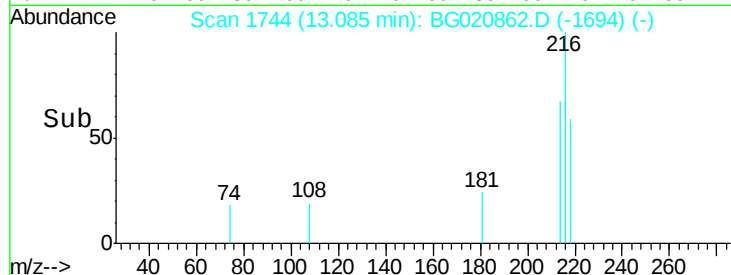
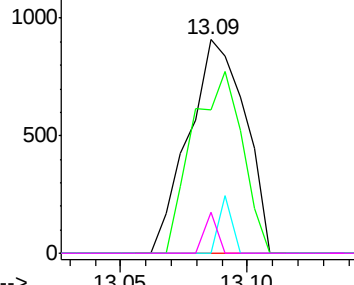


Abundance Ion 216.00 (215.70 to 216.70): E

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: 0.08 ng

RT: 13.07 min Scan# 1741

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

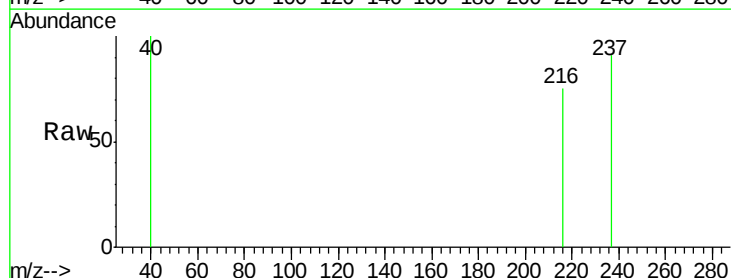
Tgt Ion:237 Resp: 73

Ion Ratio Lower Upper

237 100

235 0.0 40.8 80.8#

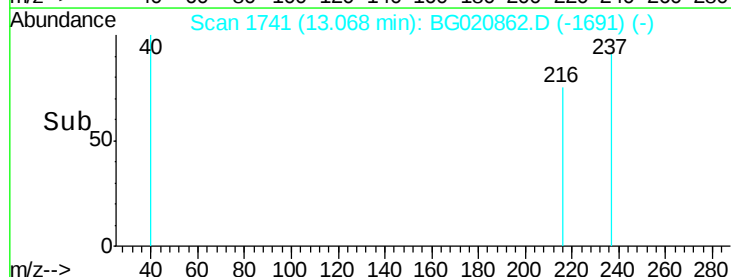
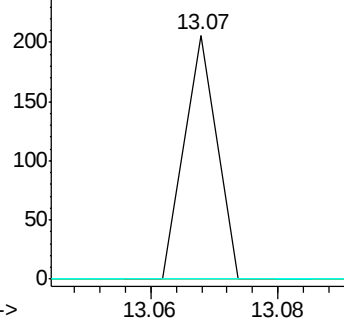
272 0.0 0.0 32.3

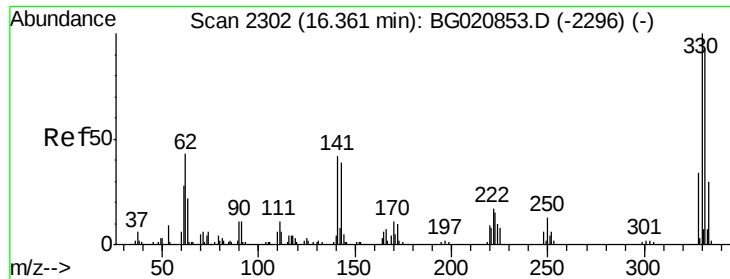


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

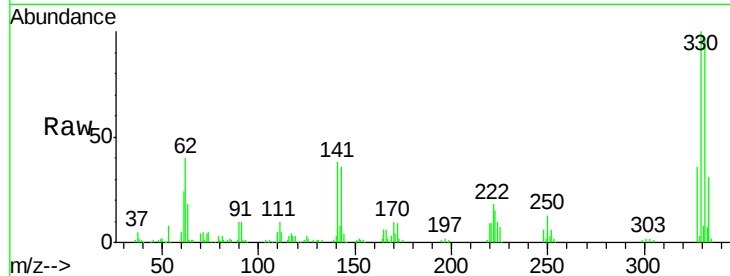




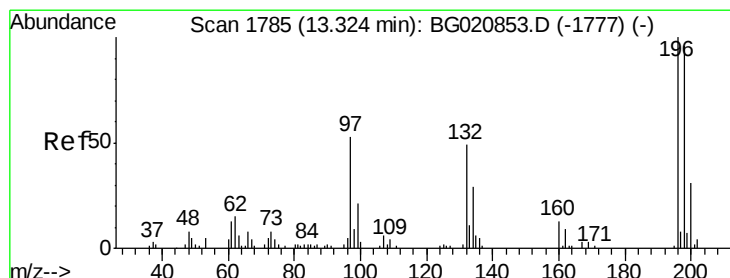
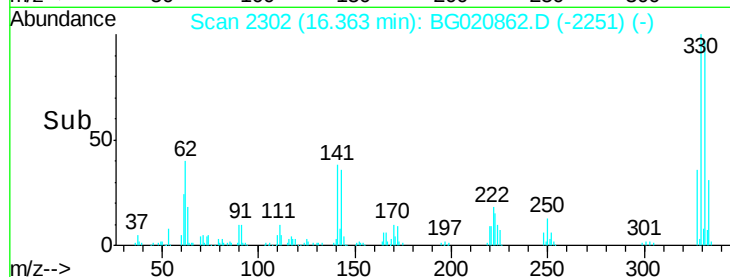
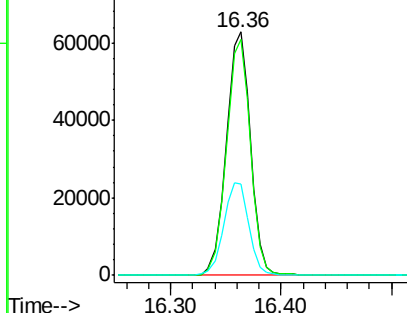
#41  
 2,4,6-Tribromophenol  
 Concen: 144.31 ng  
 RT: 16.36 min Scan# 2302  
 Delta R.T. 0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

Tgt Ion:330 Resp: 96118  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 76.1 114.1  
 141 39.3 32.0 48.0

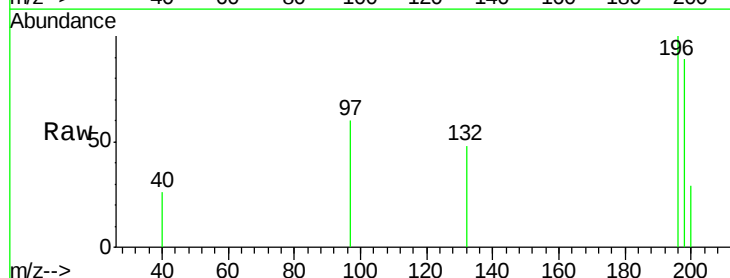


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

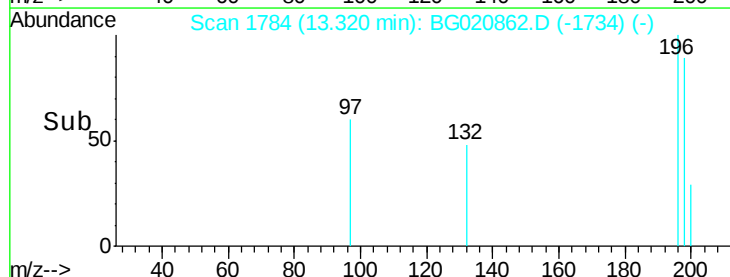
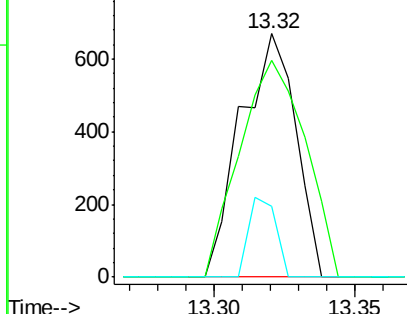


#42  
 2,4,6-Trichlorophenol  
 Concen: 0.67 ng  
 RT: 13.32 min Scan# 1784  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion:196 Resp: 900  
 Ion Ratio Lower Upper  
 196 100  
 198 89.1 77.1 115.7  
 200 29.3 24.7 37.1



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

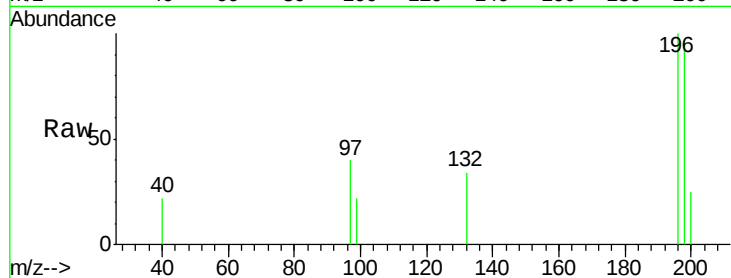




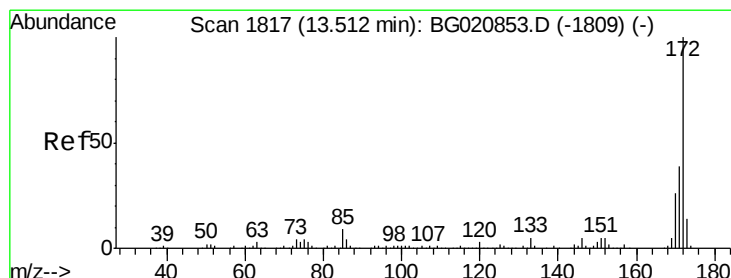
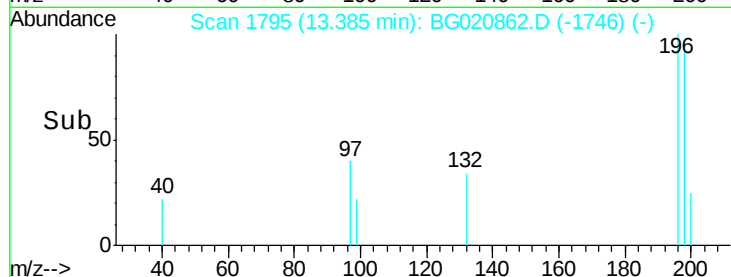
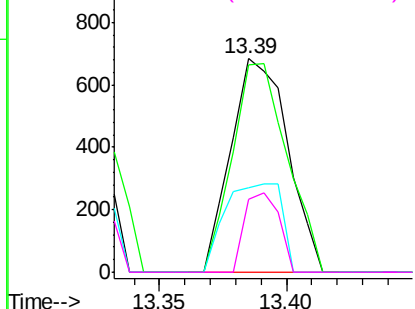
#43  
 2,4,5-Trichlorophenol  
 Concen: 0.76 ng  
 RT: 13.39 min Scan# 1795  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 196   | Resp: | 1068  |
| Ion      | Ratio | Lower | Upper |
| 196      | 100   |       |       |
| 198      | 96.9  | 76.4  | 114.6 |
| 97       | 39.8  | 37.4  | 56.0  |
| 132      | 33.9  | 24.7  | 37.1  |

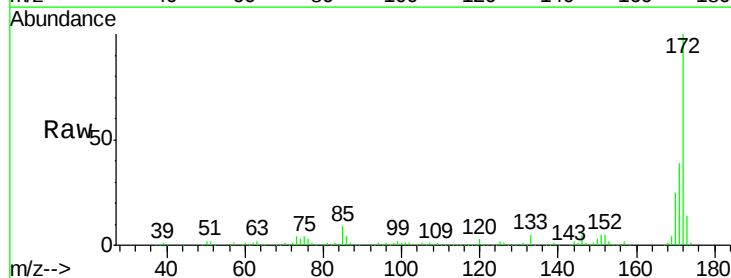


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BG  
 Ion 132.00 (131.70 to 132.70): E

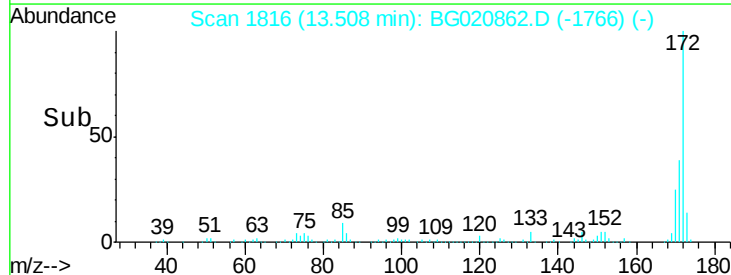
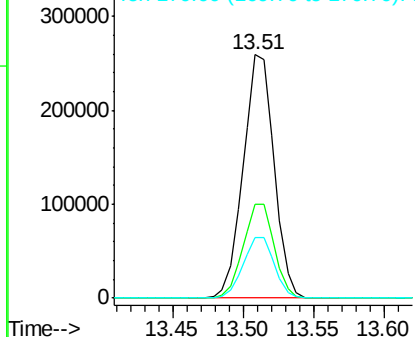


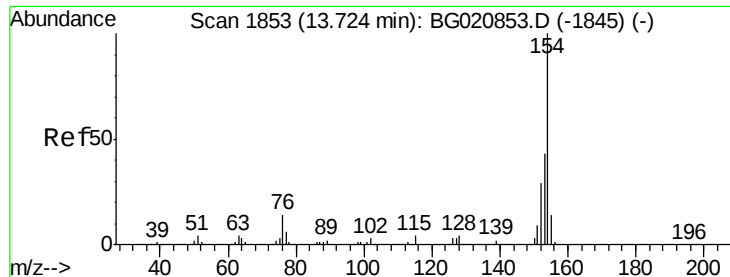
#44  
 2-Fluorobiphenyl  
 Concen: 82.26 ng  
 RT: 13.51 min Scan# 1816  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 396611 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 38.8  | 31.2  | 46.8   |
| 170      | 25.1  | 20.6  | 30.8   |



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

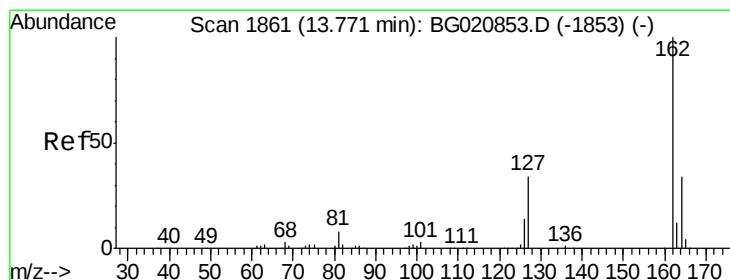
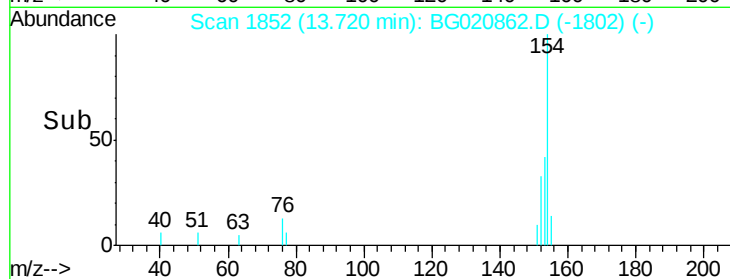
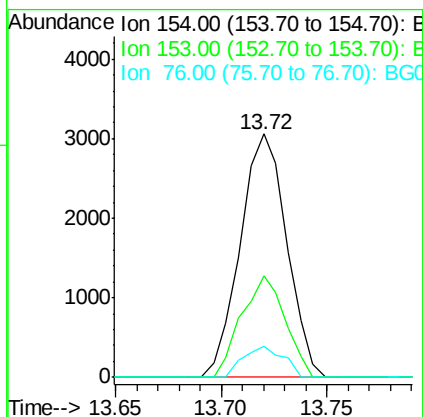
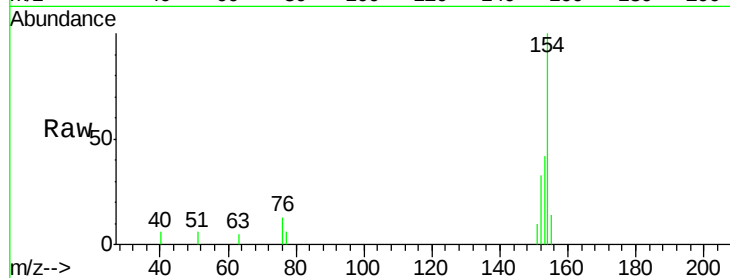




#45  
 1,1'-Biphenyl  
 Concen: 0.78 ng  
 RT: 13.72 min Scan# 1852  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

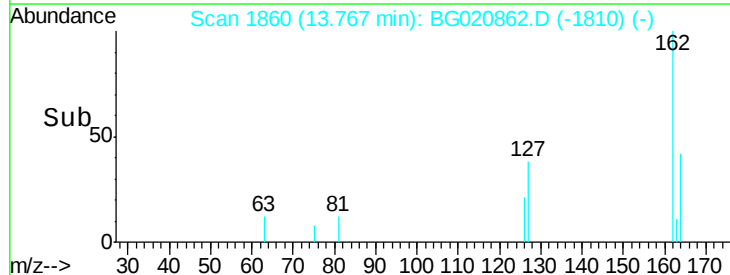
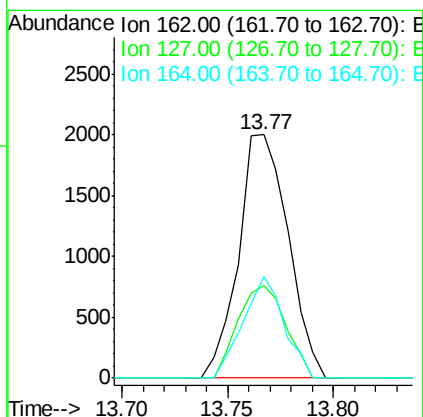
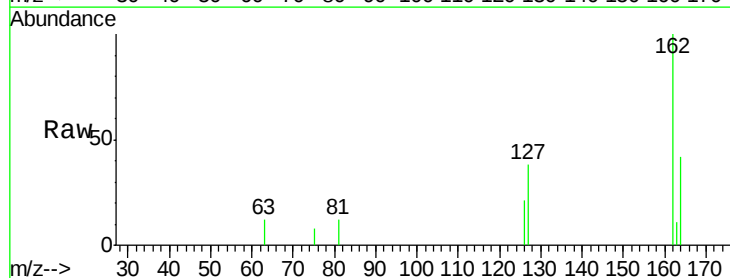
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 4655  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 41.6  | 22.5  | 62.5  |
| 76       | 12.6  | 0.0   | 33.8  |



#46  
 2-Chloronaphthalene  
 Concen: 0.76 ng  
 RT: 13.77 min Scan# 1860  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 162   | Resp: | 3254  |
| Ion      | Ratio | Lower | Upper |
| 162      | 100   |       |       |
| 127      | 38.0  | 30.6  | 45.8  |
| 164      | 41.6  | 26.8  | 40.2# |

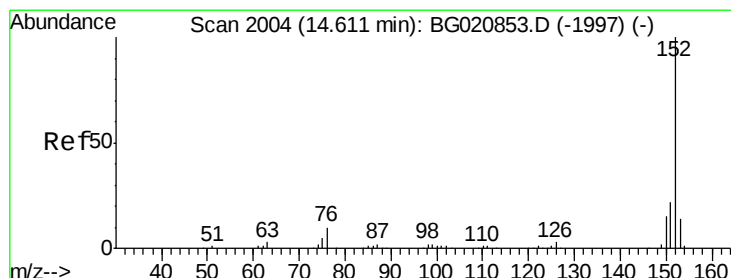
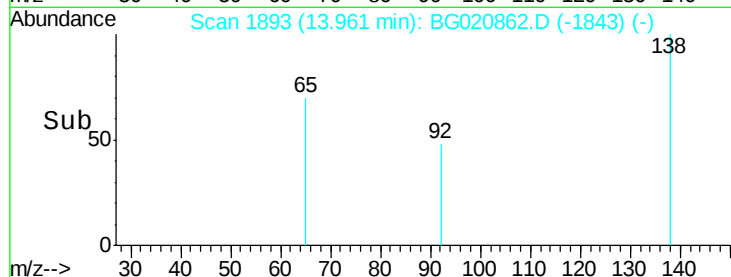
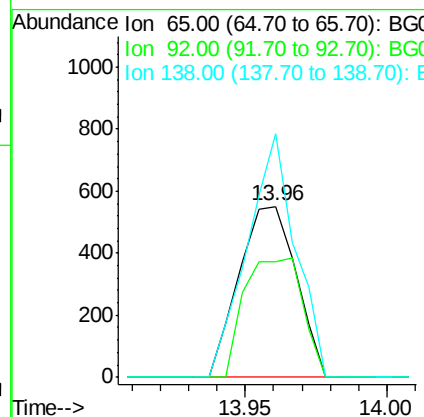
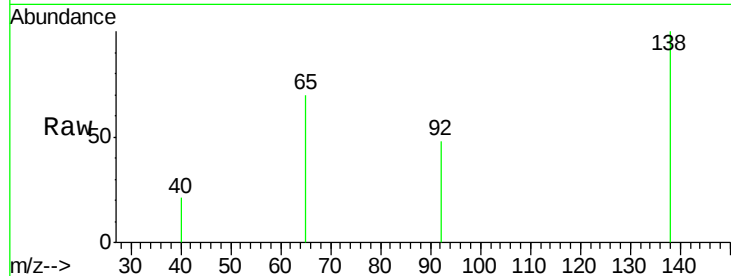




#47  
 2-Nitroaniline  
 Concen: 0.76 ng  
 RT: 13.96 min Scan# 1893  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

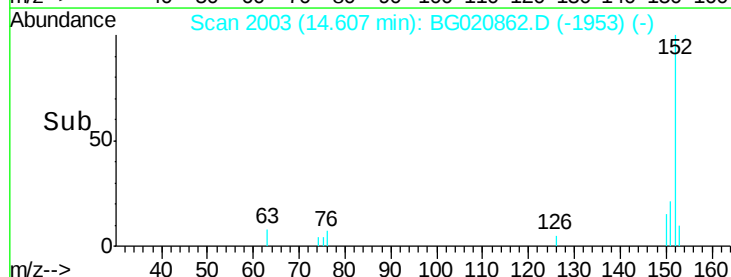
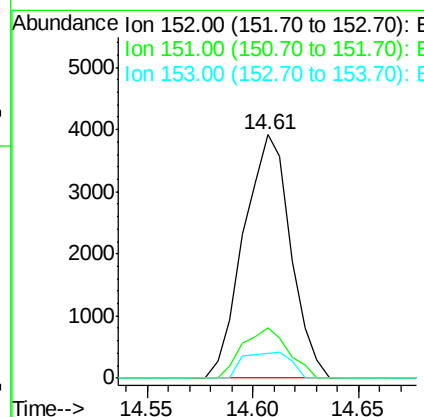
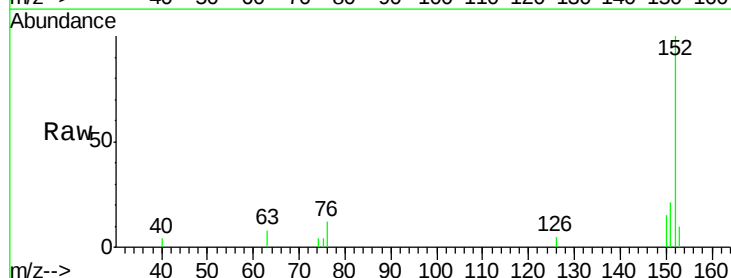
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

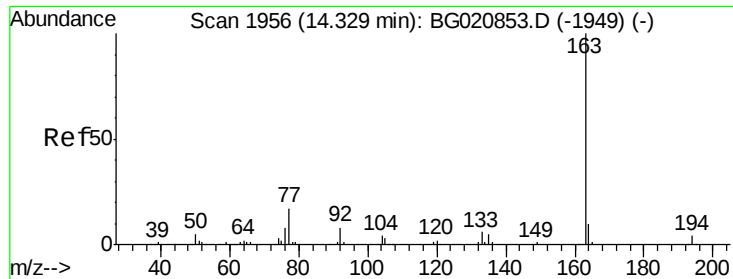
Tgt Ion: 65 Resp: 774  
 Ion Ratio Lower Upper  
 65 100  
 92 67.7 65.8 98.8  
 138 142.5 117.1 175.7



#48  
 Acenaphthylene  
 Concen: 0.81 ng  
 RT: 14.61 min Scan# 2003  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion: 152 Resp: 6031  
 Ion Ratio Lower Upper  
 152 100  
 151 20.7 17.5 26.3  
 153 10.3 10.9 16.3#





#49

Dimethylphthalate

Concen: 0.85 ng

RT: 14.32 min Scan# 1955

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

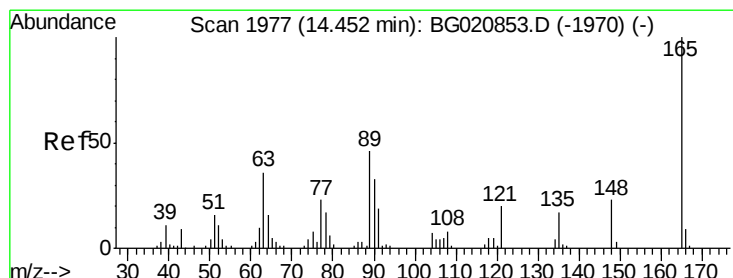
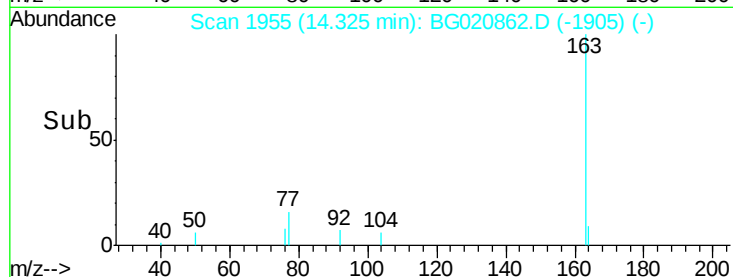
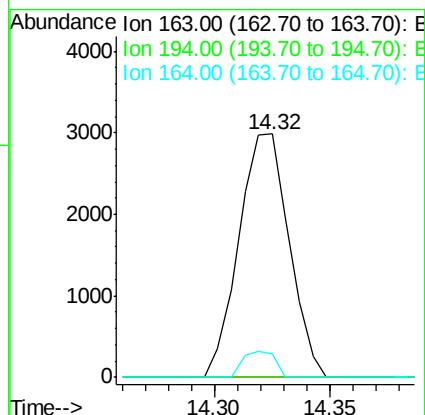
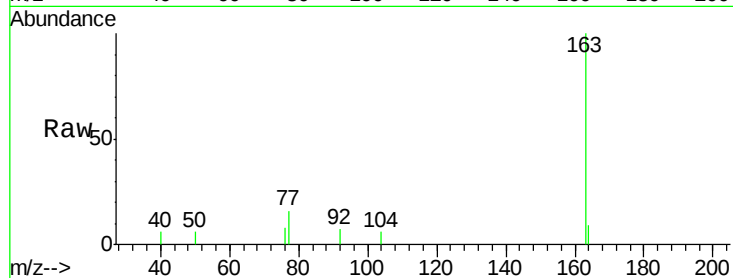
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 4518  |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 0.0   | 3.1   | 4.7#  |
| 164      | 9.4   | 8.3   | 12.5  |



#50

2,6-Dinitrotoluene

Concen: 0.59 ng

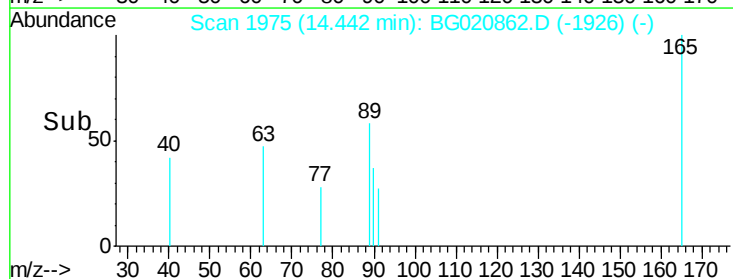
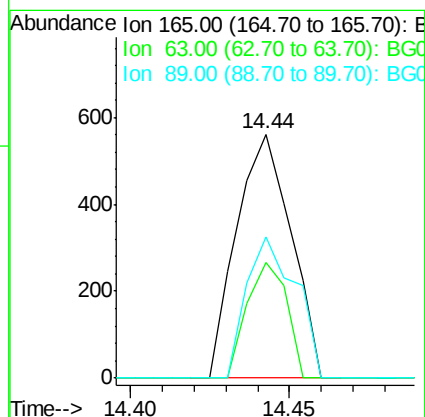
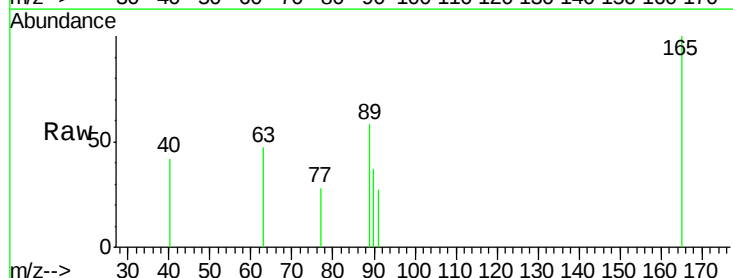
RT: 14.44 min Scan# 1975

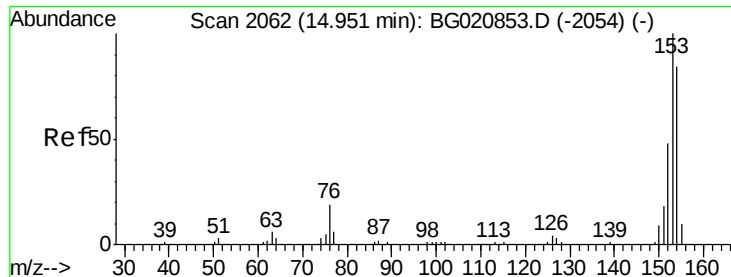
Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 665   |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 47.4  | 30.3  | 45.5# |
| 89       | 57.8  | 36.9  | 55.3# |





#51

Acenaphthene

Concen: 0.76 ng

RT: 14.94 min Scan# 2060

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

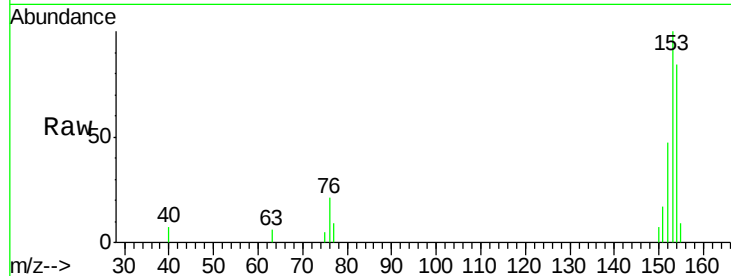
Tgt Ion:154 Resp: 3424

Ion Ratio Lower Upper

154 100

153 118.8 95.4 143.0

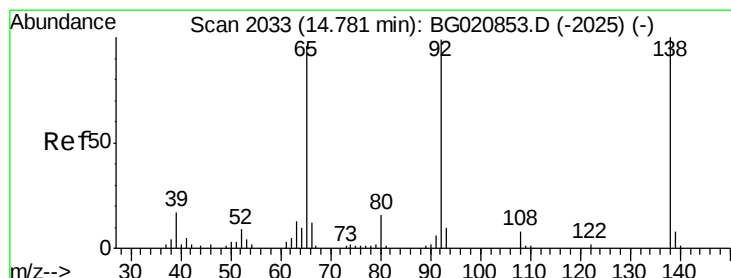
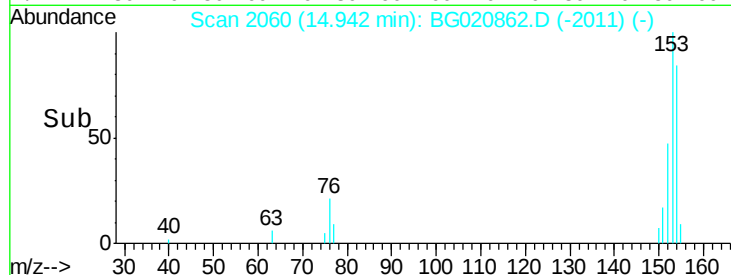
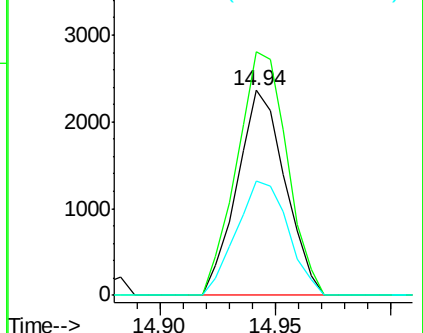
152 55.6 46.1 69.1



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: 0.64 ng

RT: 14.77 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

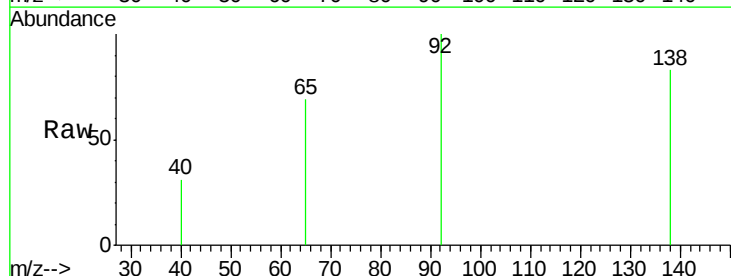
Tgt Ion:138 Resp: 843

Ion Ratio Lower Upper

138 100

108 0.0 6.2 9.2#

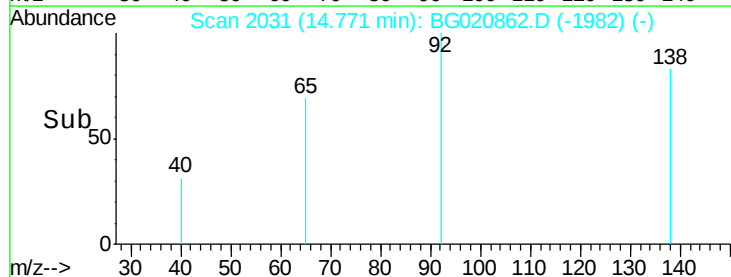
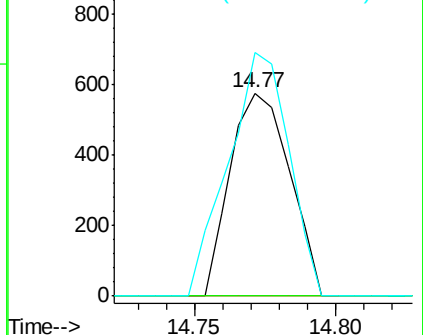
92 120.0 79.5 119.3#

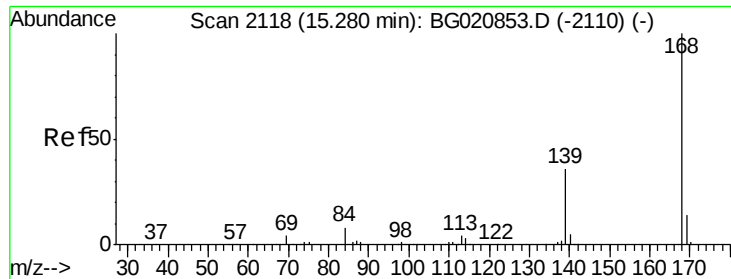


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC





#54

Dibenzenofuran

Concen: 0.95 ng

RT: 15.28 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

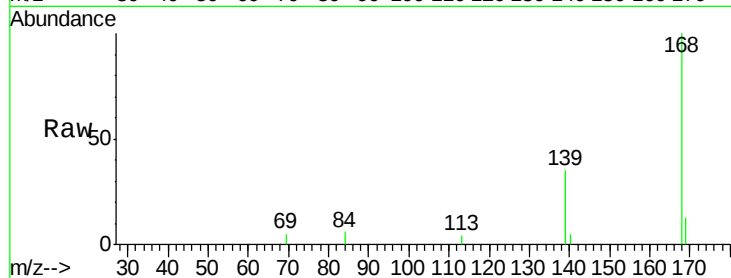
Tgt Ion:168 Resp: 5647

Ion Ratio Lower Upper

168 100

139 35.3 28.5 42.7

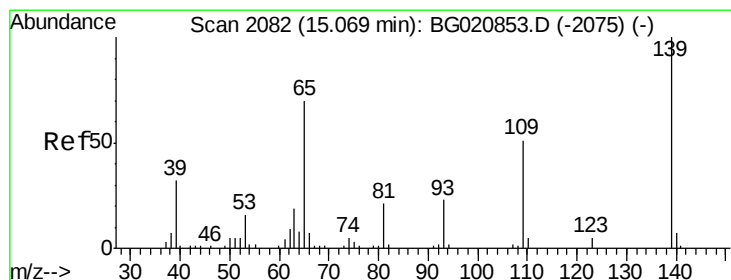
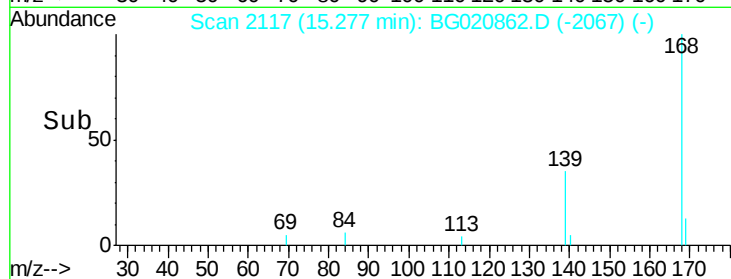
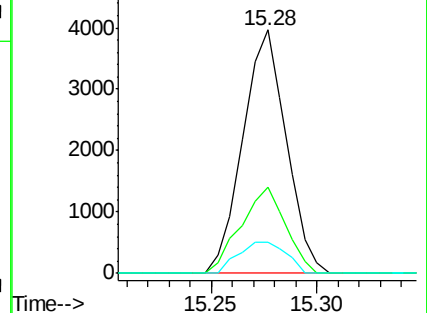
169 12.8 11.0 16.4



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 0.45 ng

RT: 15.06 min Scan# 2080

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

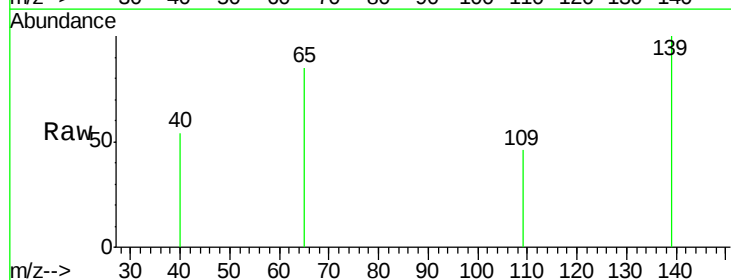
Tgt Ion:139 Resp: 445

Ion Ratio Lower Upper

139 100

109 45.9 31.0 71.0

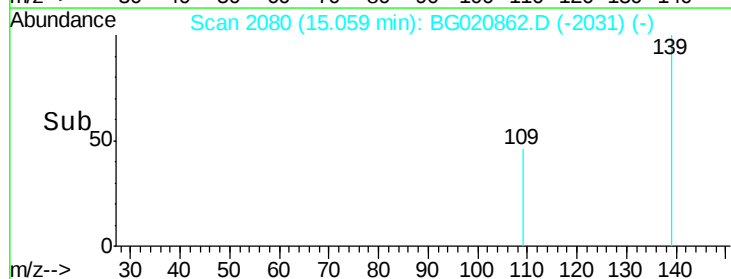
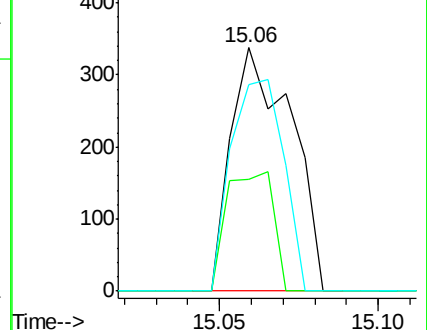
65 84.9 49.6 89.6

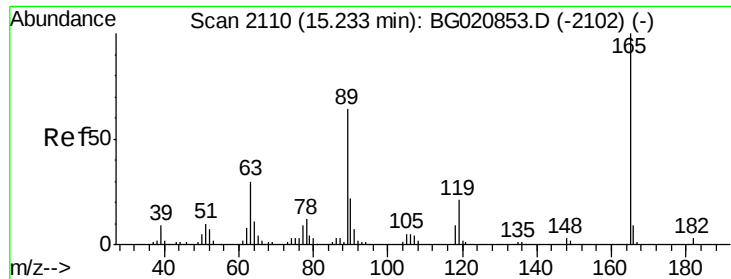


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BG





#56

2,4-Dinitrotoluene

Concen: 0.59 ng

RT: 15.22 min Scan# 2108

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

Tgt Ion:165 Resp: 859

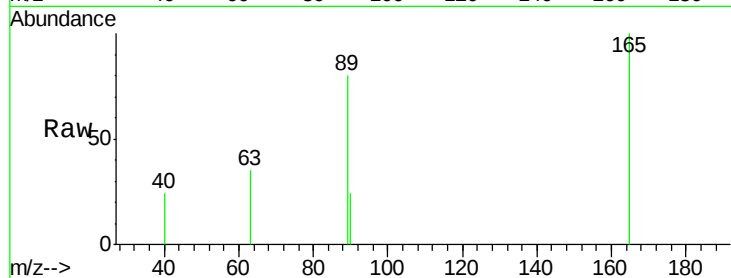
Ion Ratio Lower Upper

165 100

63 34.9 23.7 35.5

89 80.4 50.9 76.3#

182 0.0 2.2 3.2#

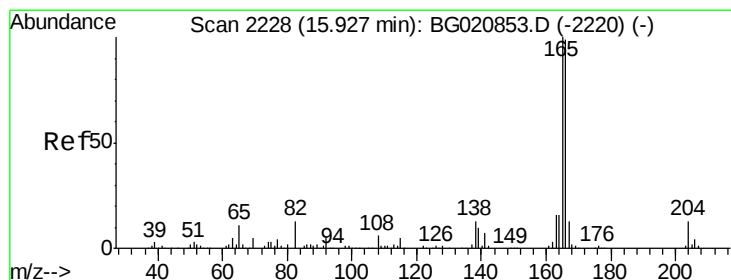
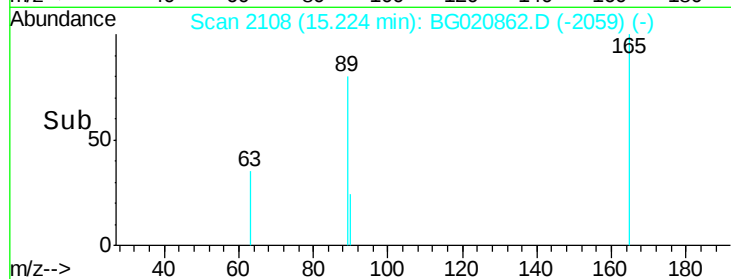
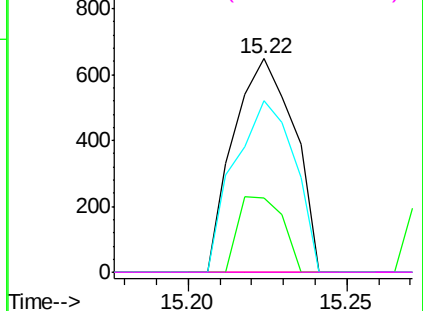


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 0.86 ng

RT: 15.92 min Scan# 2227

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

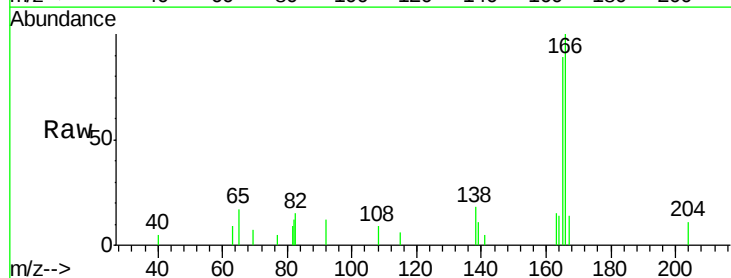
Tgt Ion:166 Resp: 4734

Ion Ratio Lower Upper

166 100

165 89.0 81.0 121.4

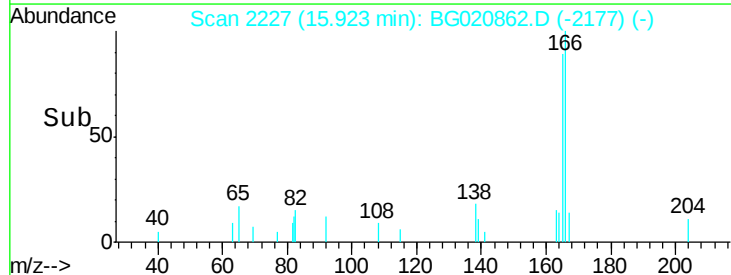
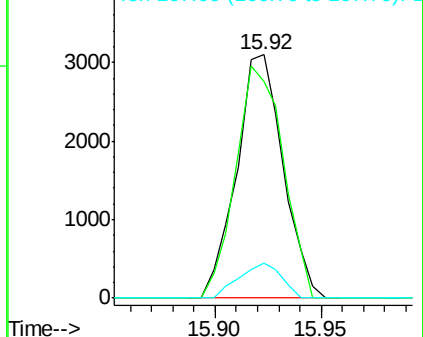
167 14.3 10.8 16.2

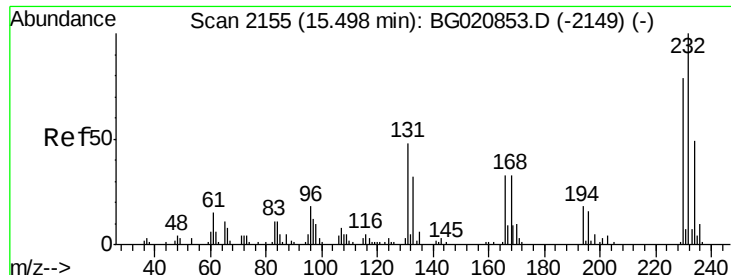


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

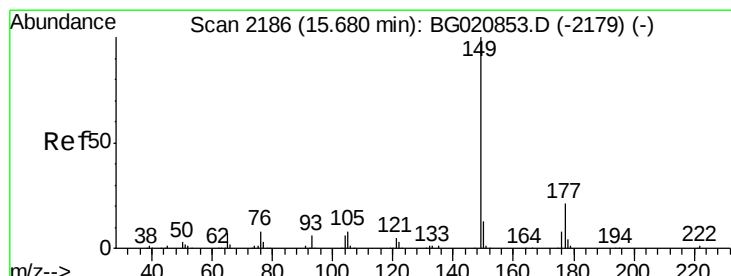
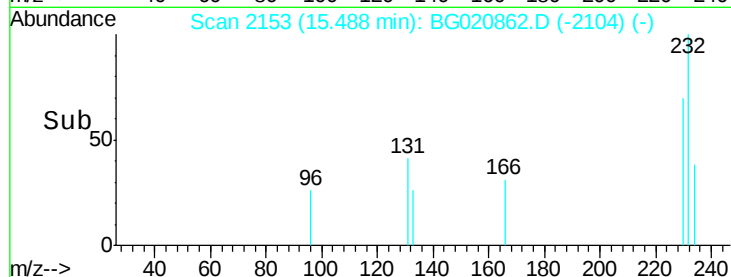
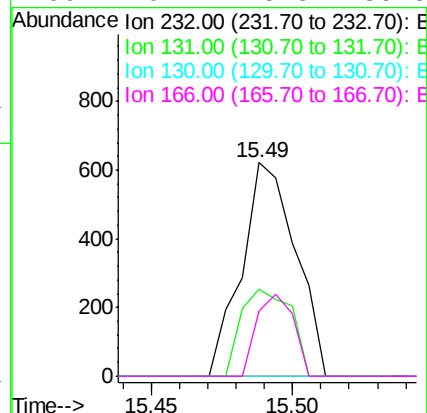
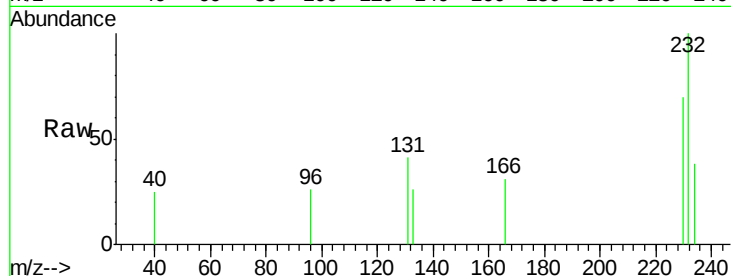




#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 0.77 ng  
 RT: 15.49 min Scan# 2153  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

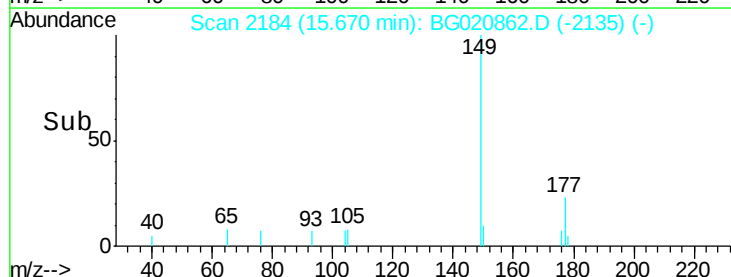
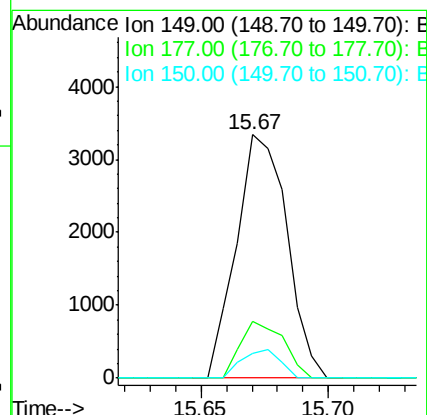
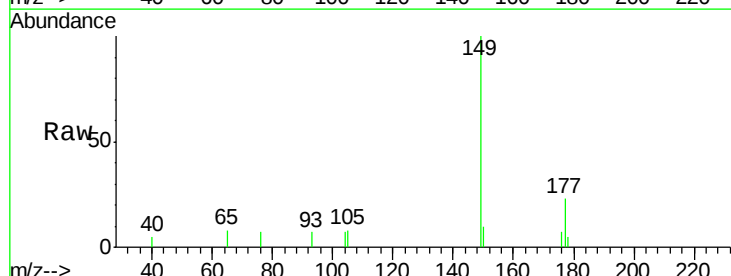
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

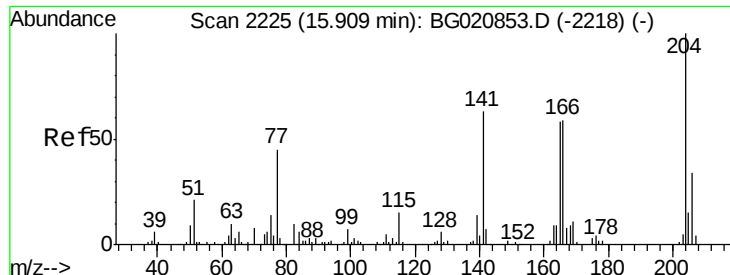
Tgt Ion: 232 Resp: 820  
 Ion Ratio Lower Upper  
 232 100  
 131 37.8 39.2 58.8#  
 130 0.0 2.0 3.0#  
 166 26.2 25.8 38.8



#59  
 Diethylphthalate  
 Concen: 0.85 ng  
 RT: 15.67 min Scan# 2184  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion: 149 Resp: 4631  
 Ion Ratio Lower Upper  
 149 100  
 177 23.0 16.9 25.3  
 150 10.1 10.1 15.1

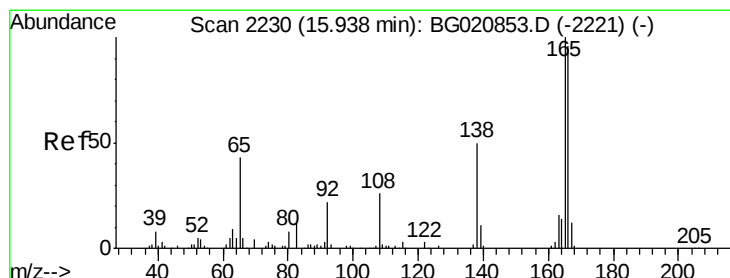
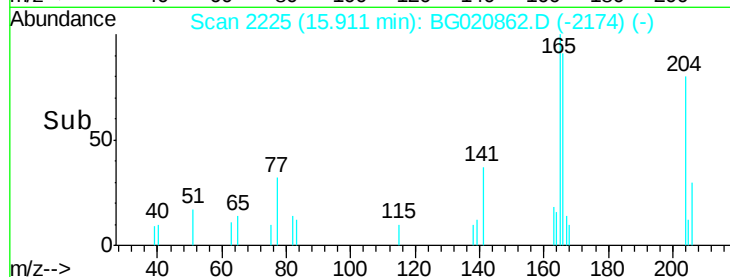
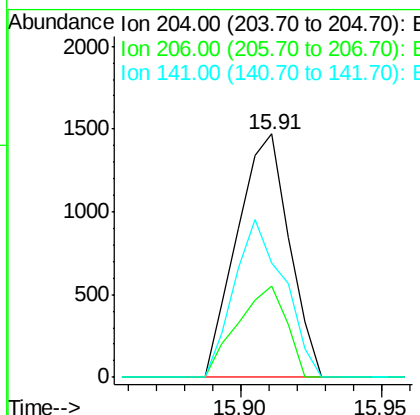
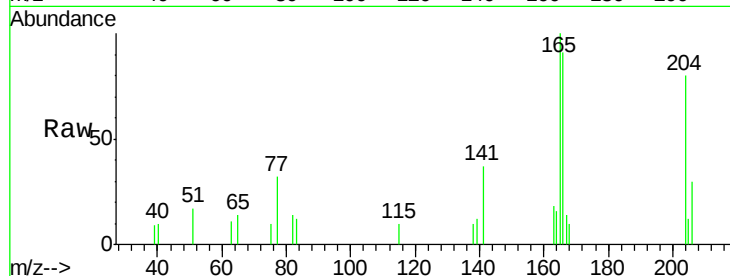




#60  
4-Chlorophenyl-phenylether  
Concen: 0.77 ng  
RT: 15.91 min Scan# 2225  
Delta R.T. 0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

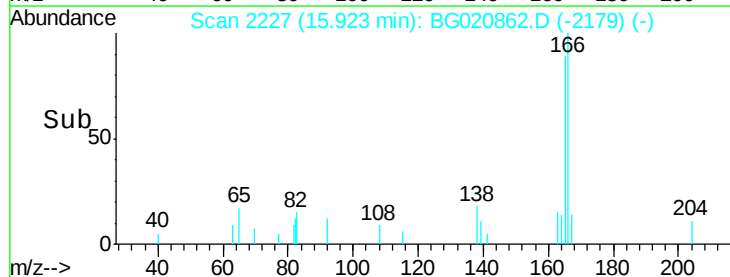
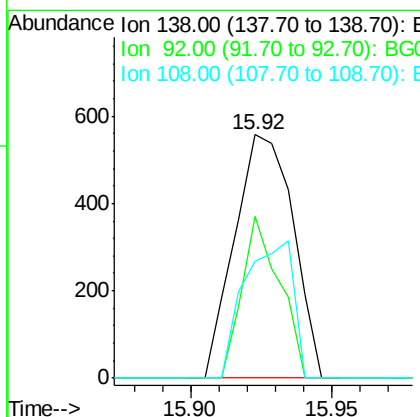
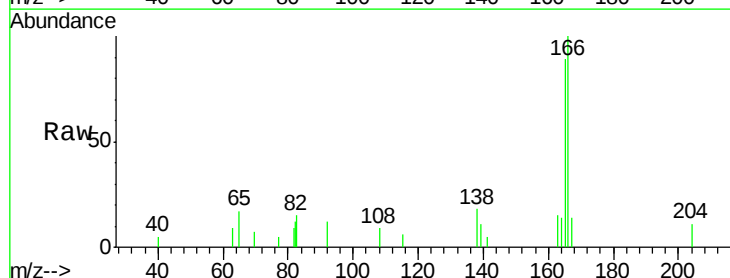
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

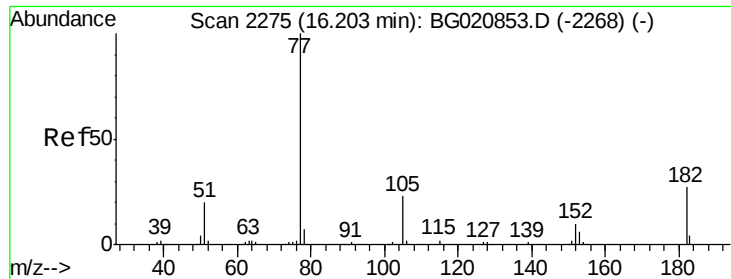
Tgt Ion: 204 Resp: 1882  
Ion Ratio Lower Upper  
204 100  
206 37.3 26.9 40.3  
141 46.8 50.3 75.5#



#61  
4-Nitroaniline  
Concen: 0.60 ng  
RT: 15.92 min Scan# 2227  
Delta R.T. -0.02 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion: 138 Resp: 798  
Ion Ratio Lower Upper  
138 100  
92 66.1 24.1 64.1#  
108 48.0 32.4 72.4





#62

Azobenzene

Concen: 0.94 ng

RT: 16.20 min Scan# 2274

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

Tgt Ion: 77 Resp: 4031

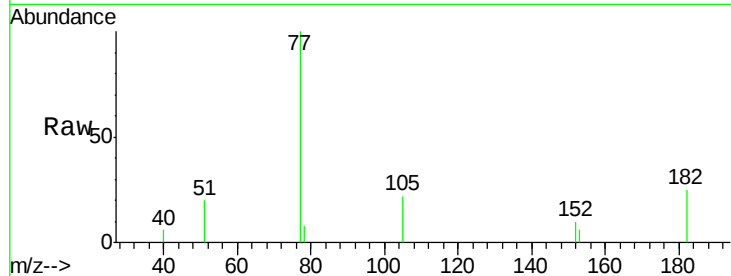
Ion Ratio Lower Upper

77 100

182 25.2 6.8 46.8

105 21.8 3.4 43.4

51 20.3 0.0 39.9

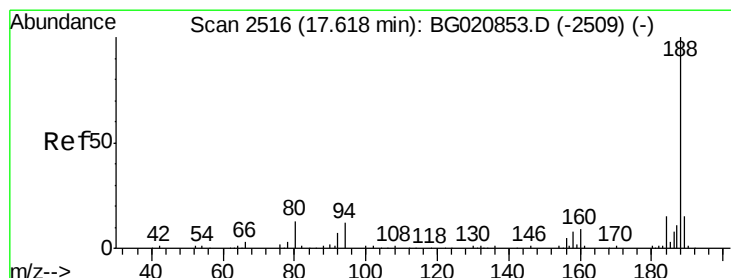
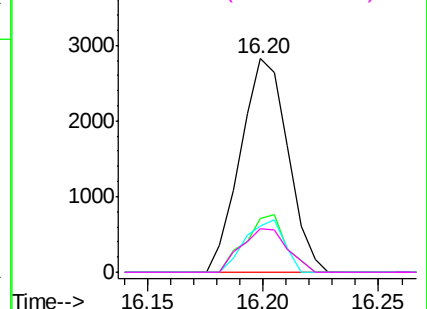
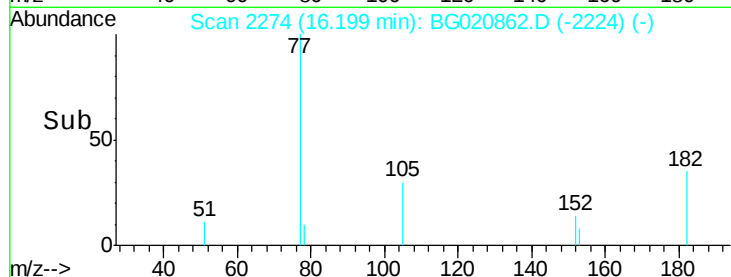


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 182.00 (181.70 to 182.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.61 min Scan# 2515

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

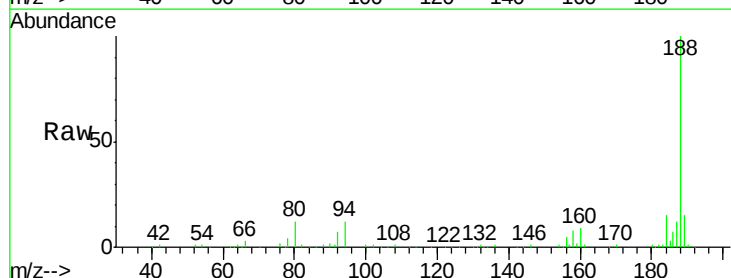
Tgt Ion: 188 Resp: 144980

Ion Ratio Lower Upper

188 100

94 11.8 9.4 14.0

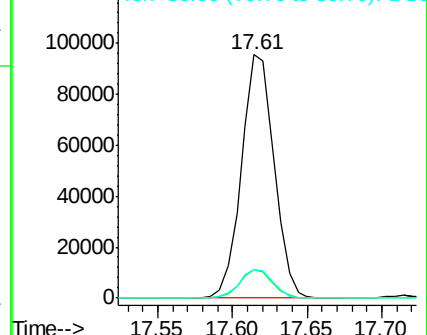
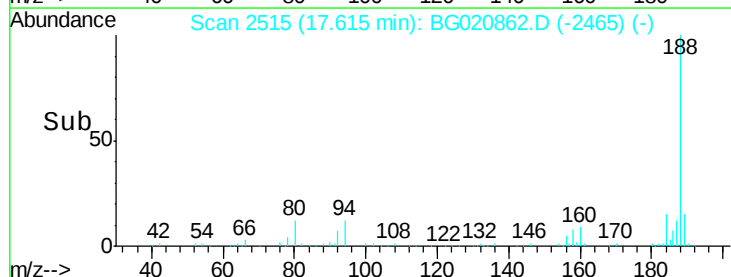
80 11.9 10.2 15.4

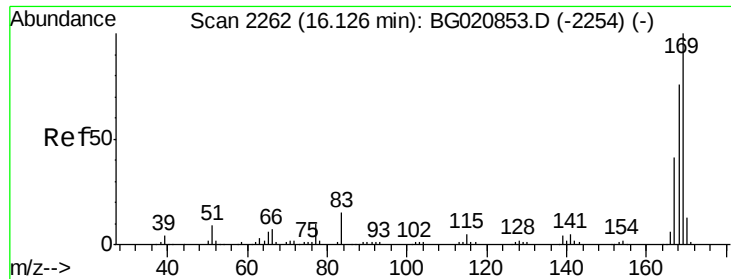


Abundance Ion 188.00 (187.70 to 188.70): BGC

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

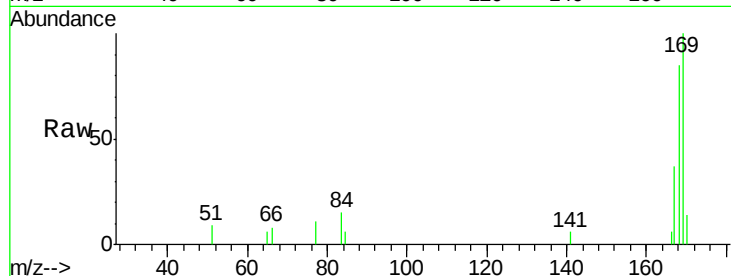




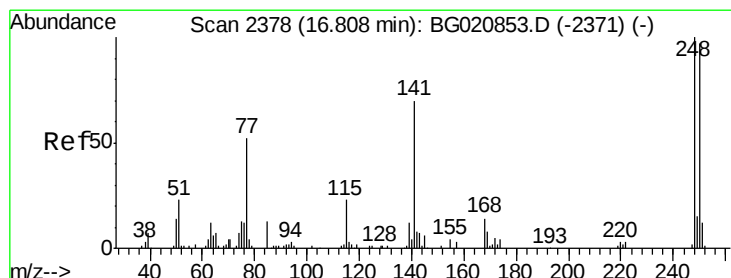
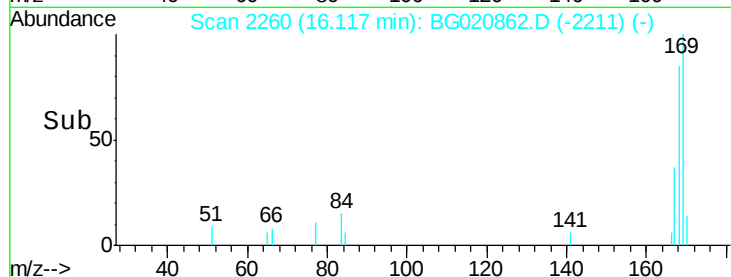
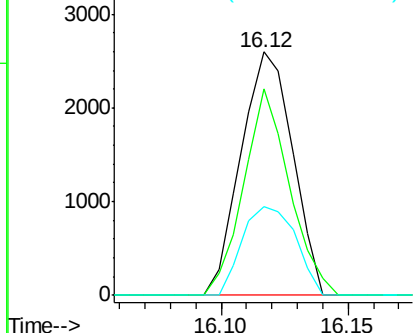
#65  
 n-Nitrosodiphenylamine  
 Concen: 0.79 ng  
 RT: 16.12 min Scan# 2260  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

Tgt Ion:169 Resp: 3693  
 Ion Ratio Lower Upper  
 169 100  
 168 84.6 60.7 91.1  
 167 36.6 32.8 49.2

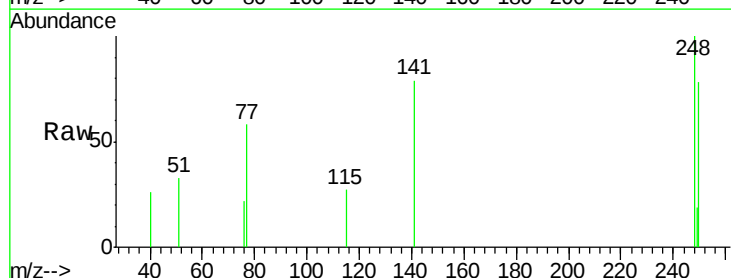


Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E

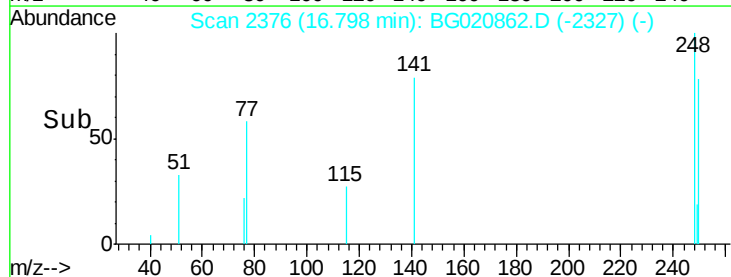
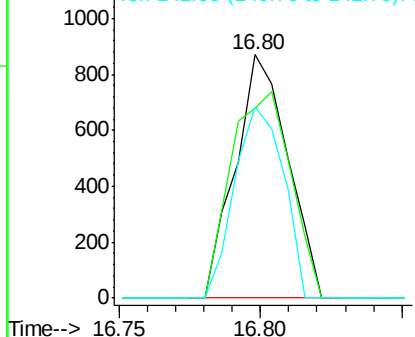


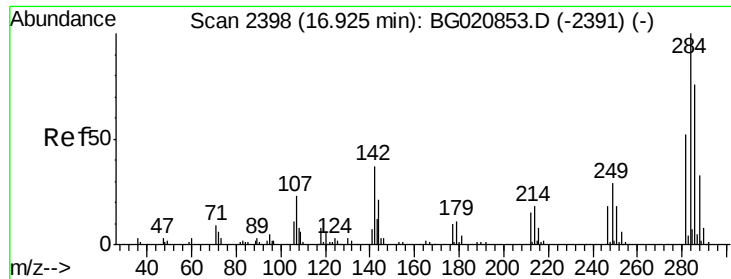
#66  
 4-Bromophenyl-phenylether  
 Concen: 0.73 ng  
 RT: 16.80 min Scan# 2376  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion:248 Resp: 1124  
 Ion Ratio Lower Upper  
 248 100  
 250 78.0 77.4 116.2  
 141 78.5 55.7 83.5



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: 0.81 ng

RT: 16.92 min Scan# 2396

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

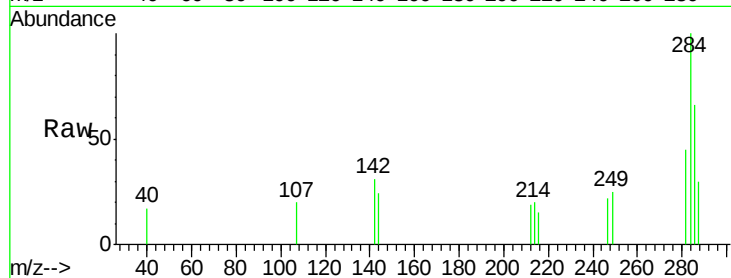
Tgt Ion:284 Resp: 1327

Ion Ratio Lower Upper

284 100

142 30.5 29.9 44.9

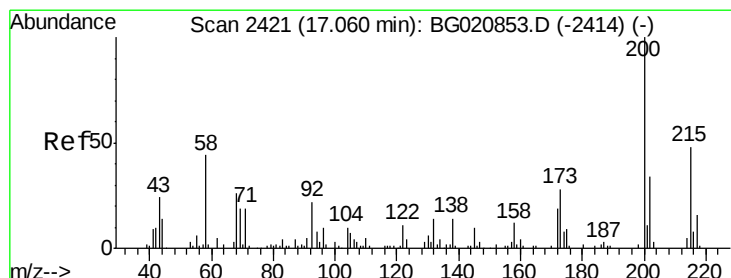
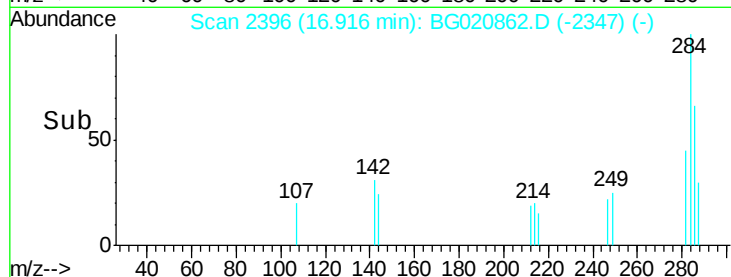
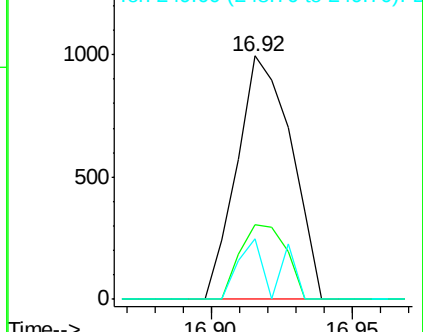
249 24.8 23.3 34.9



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: 0.81 ng

RT: 17.05 min Scan# 2419

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

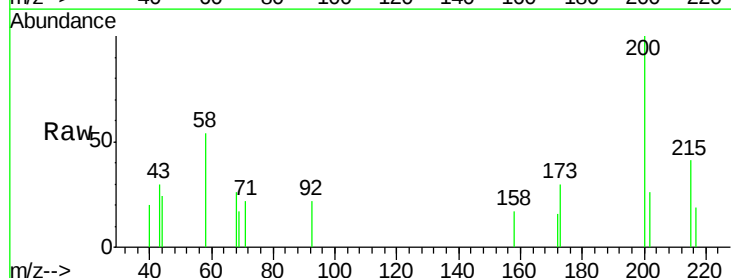
Tgt Ion:200 Resp: 1148

Ion Ratio Lower Upper

200 100

173 29.6 8.4 48.4

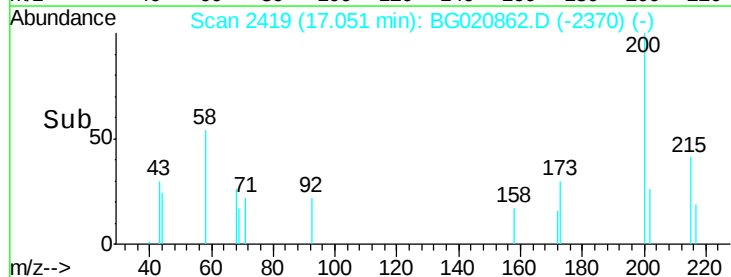
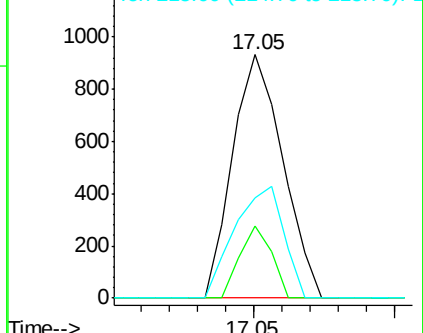
215 41.0 28.2 68.2

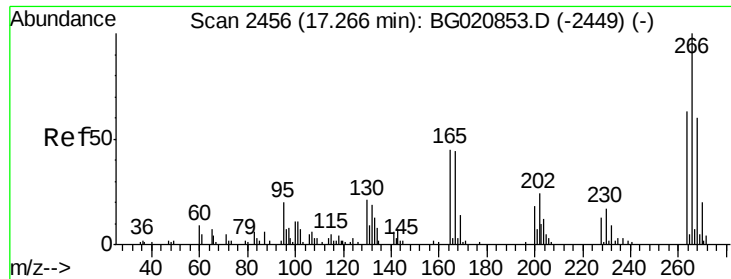


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#69

Pentachlorophenol

Concen: 0.24 ng

RT: 17.26 min Scan# 2455

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

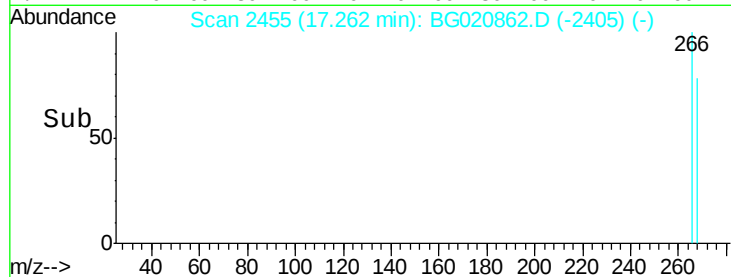
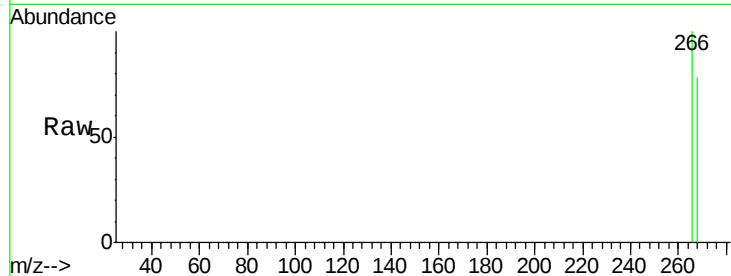
Tgt Ion:266 Resp: 220

Ion Ratio Lower Upper

266 100

268 0.0 47.8 71.6#

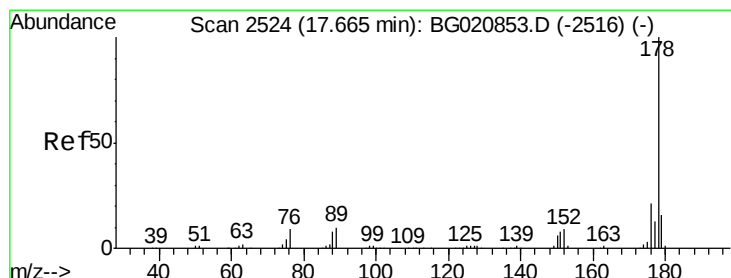
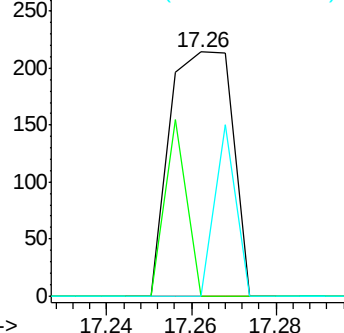
264 0.0 50.2 75.4#



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: 0.85 ng

RT: 17.66 min Scan# 2523

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

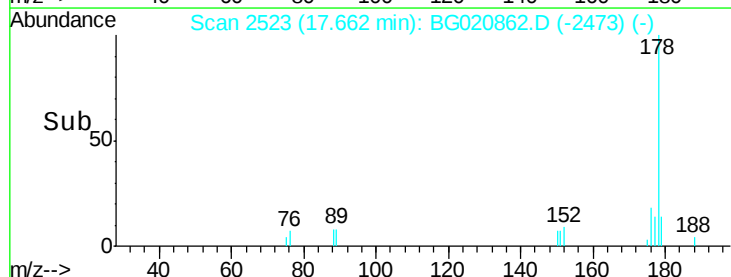
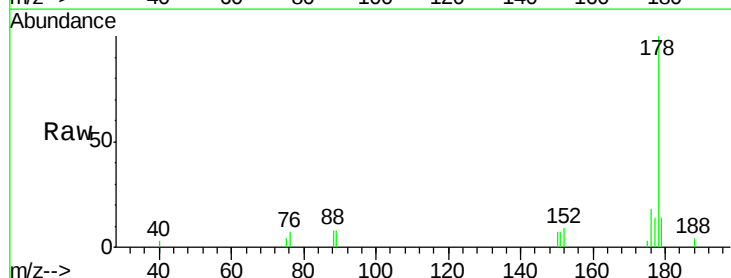
Tgt Ion:178 Resp: 7010

Ion Ratio Lower Upper

178 100

176 17.9 16.8 25.2

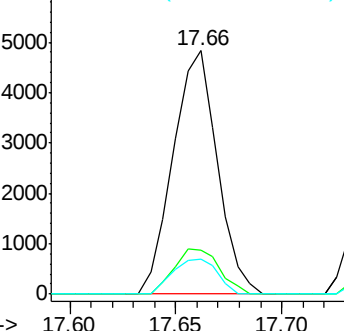
179 14.2 12.6 19.0

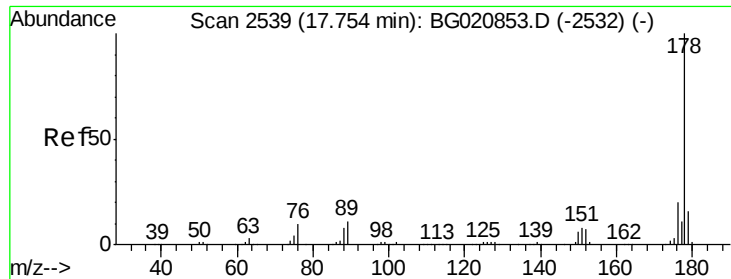


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

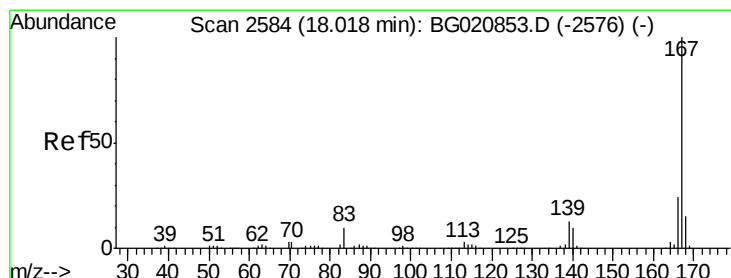
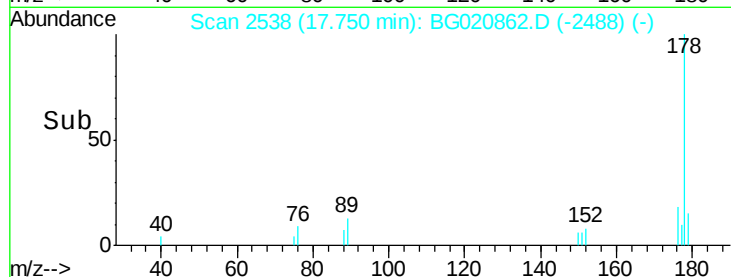
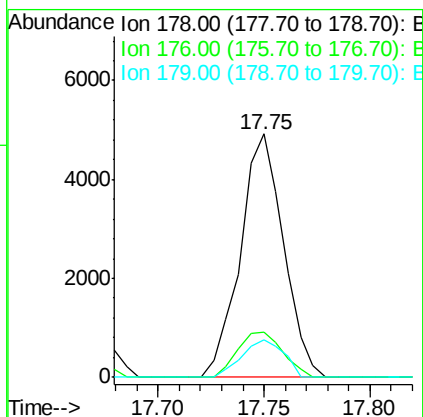
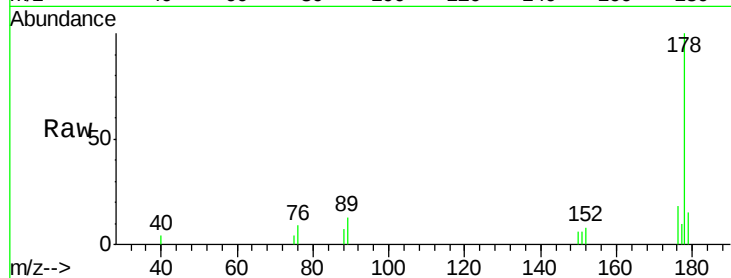




#71  
 Anthracene  
 Concen: 0.83 ng  
 RT: 17.75 min Scan# 2538  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

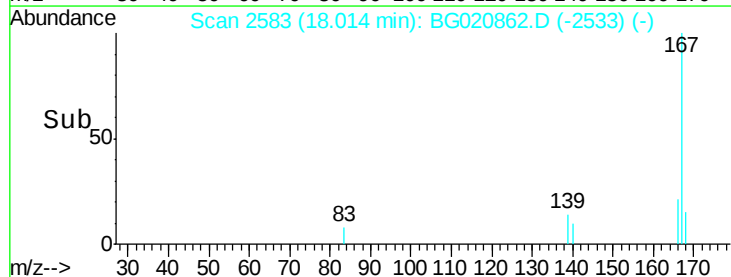
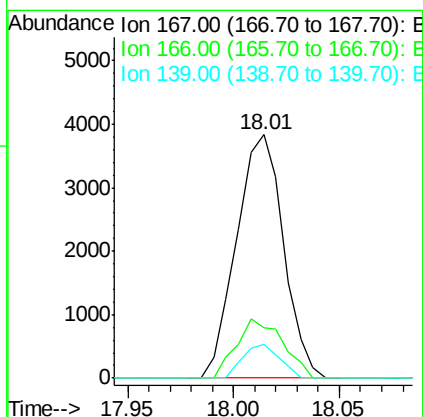
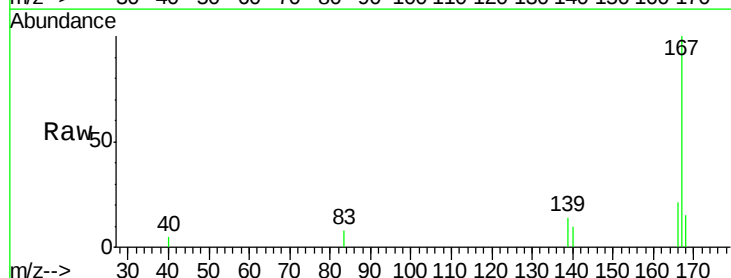
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

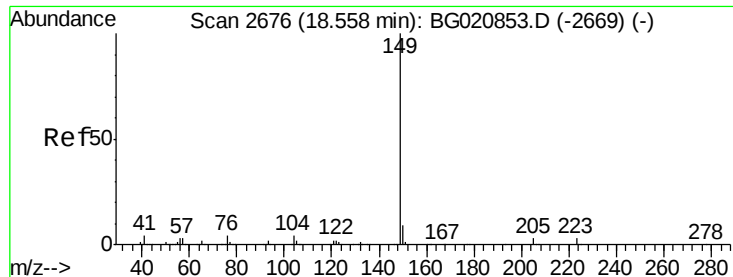
Tgt Ion:178 Resp: 6966  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 16.2 24.4  
 179 15.4 12.7 19.1



#72  
 Carbazole  
 Concen: 0.79 ng  
 RT: 18.01 min Scan# 2583  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion:167 Resp: 5918  
 Ion Ratio Lower Upper  
 167 100  
 166 20.7 19.3 28.9  
 139 13.7 10.2 15.4

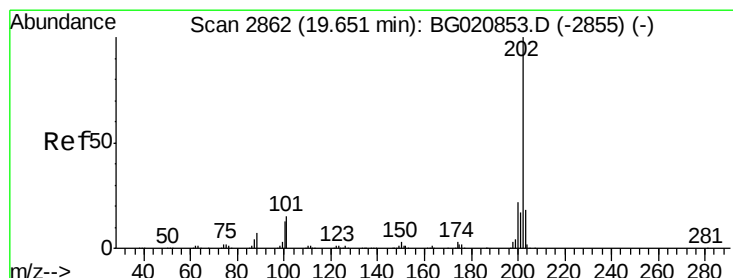
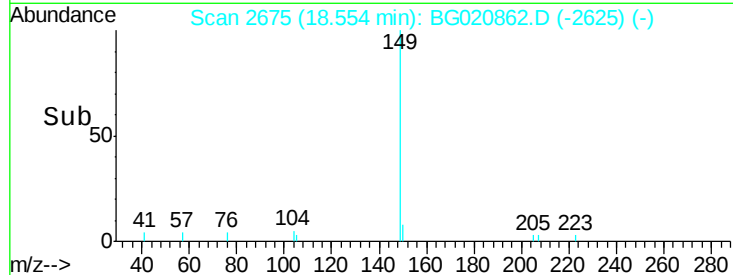
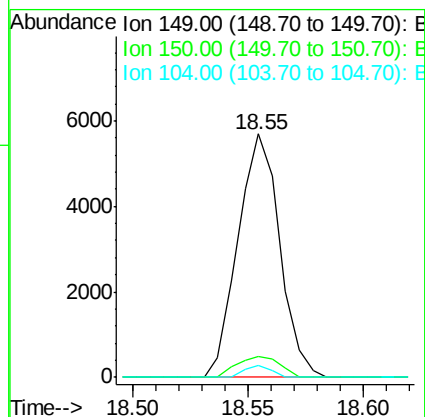
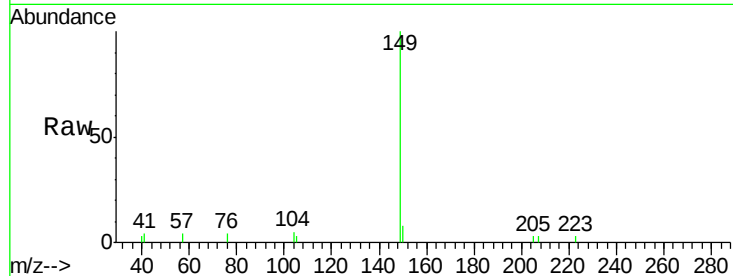




#73  
Di-n-butylphthalate  
Concen: 0.74 ng  
RT: 18.55 min Scan# 2675  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

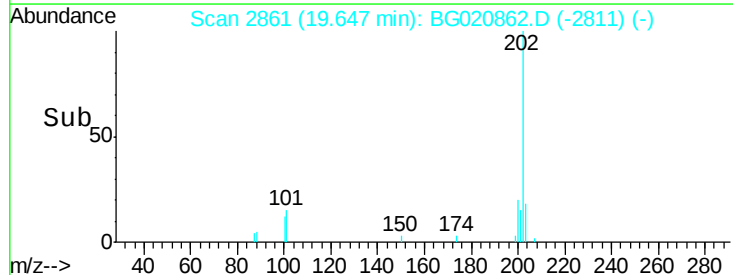
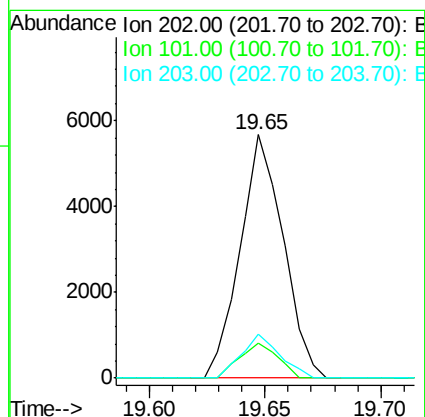
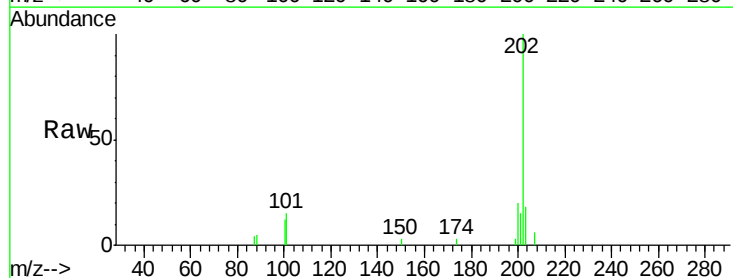
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

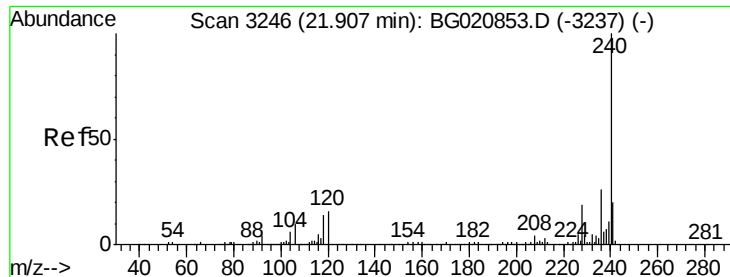
Tgt Ion:149 Resp: 7181  
Ion Ratio Lower Upper  
149 100  
150 8.5 7.6 11.4  
104 4.8 3.4 5.0



#74  
Fluoranthene  
Concen: 0.83 ng  
RT: 19.65 min Scan# 2861  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion:202 Resp: 7369  
Ion Ratio Lower Upper  
202 100  
101 14.6 0.0 35.3  
203 17.9 0.0 37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.90 min Scan# 3244

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

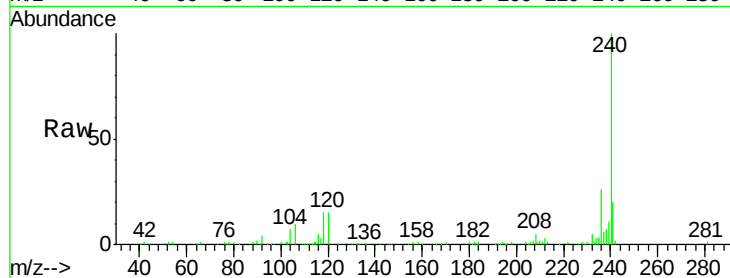
Tgt Ion:240 Resp: 135397

Ion Ratio Lower Upper

240 100

120 14.9 13.0 19.4

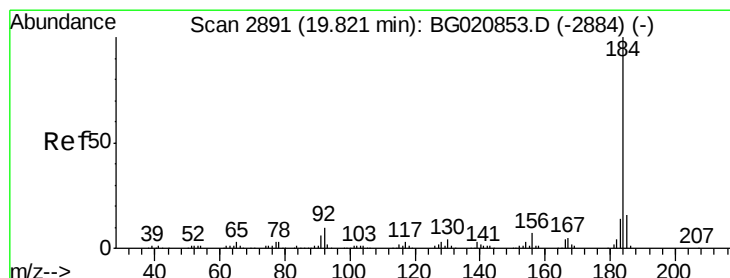
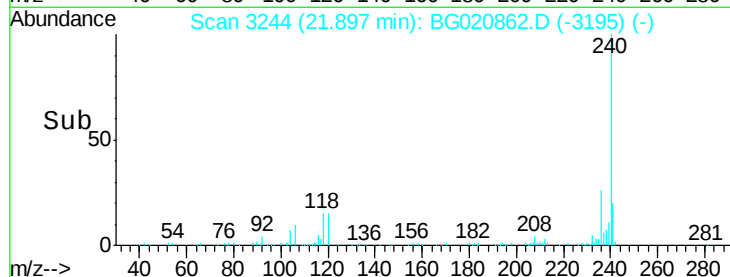
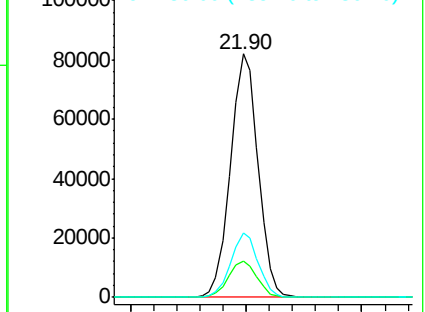
236 26.4 21.0 31.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 0.06 ng

RT: 19.82 min Scan# 2890

Delta R.T. -0.00 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

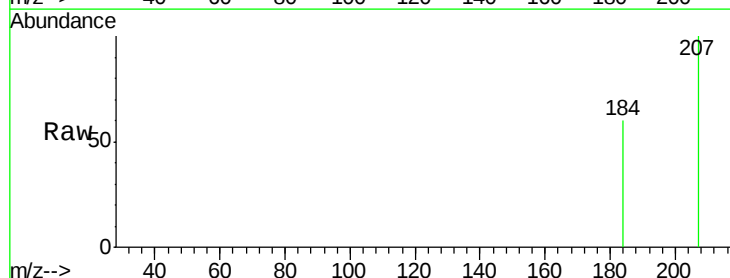
Tgt Ion:184 Resp: 284

Ion Ratio Lower Upper

184 100

185 0.0 12.6 19.0#

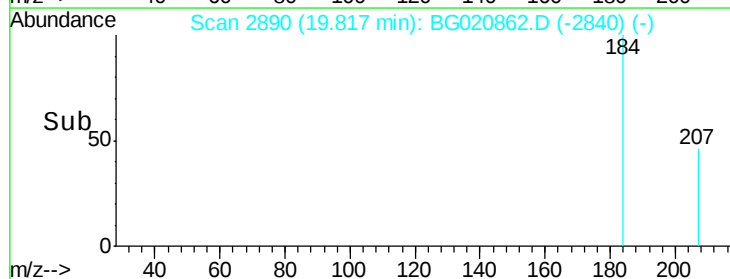
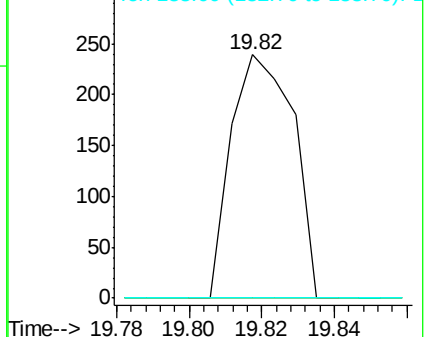
183 0.0 11.0 16.4#

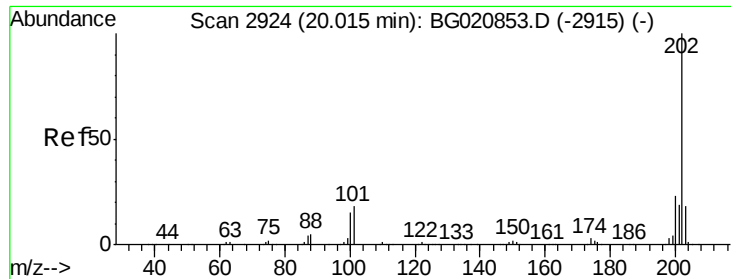


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

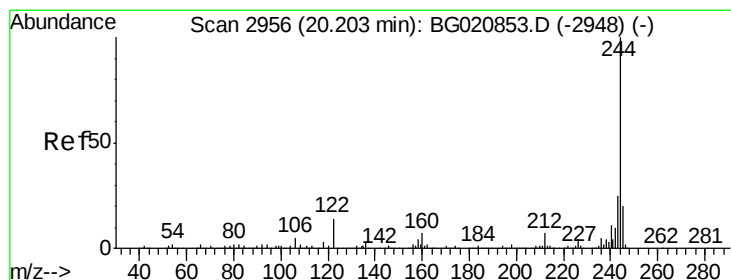
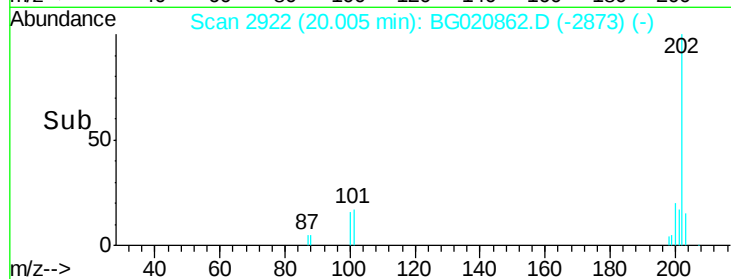
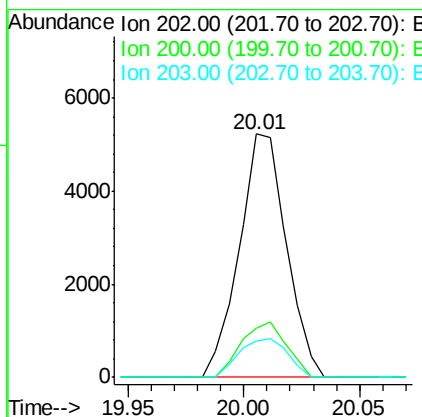
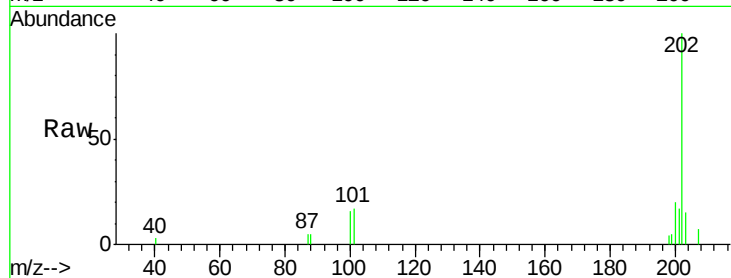




#77  
 Pyrene  
 Concen: 0.83 ng  
 RT: 20.01 min Scan# 2922  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

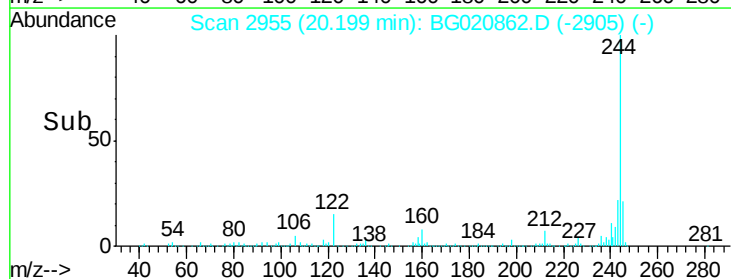
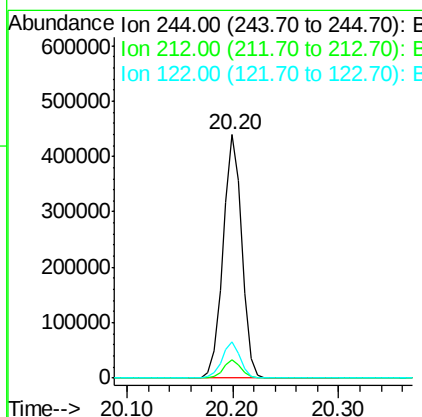
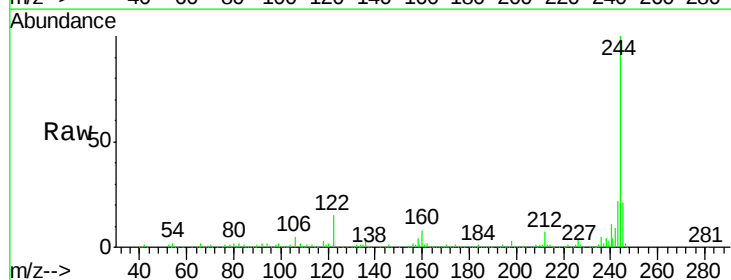
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

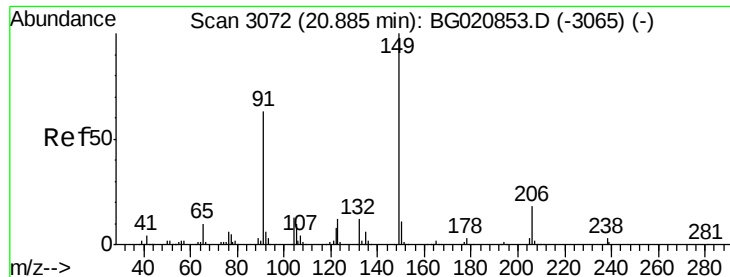
Tgt Ion: 202 Resp: 7421  
 Ion Ratio Lower Upper  
 202 100  
 200 19.9 18.5 27.7  
 203 14.8 14.3 21.5



#78  
 Terphenyl-d14  
 Concen: 92.97 ng  
 RT: 20.20 min Scan# 2955  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion: 244 Resp: 539613  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.5 8.3  
 122 15.1 11.4 17.2

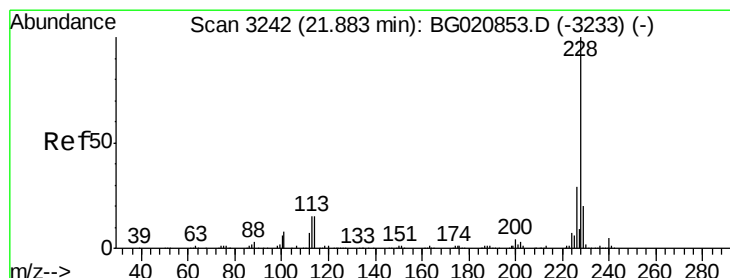
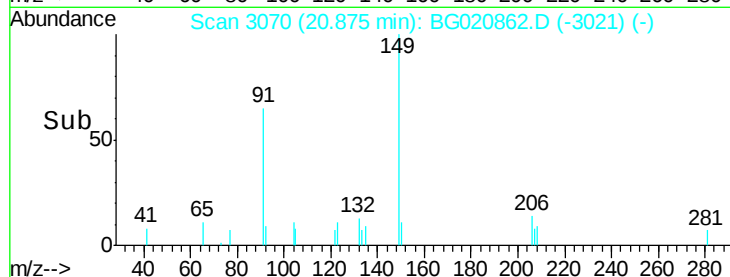
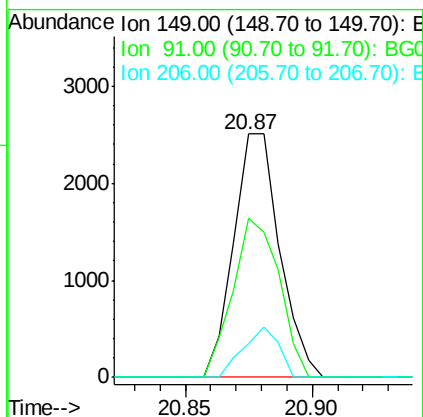
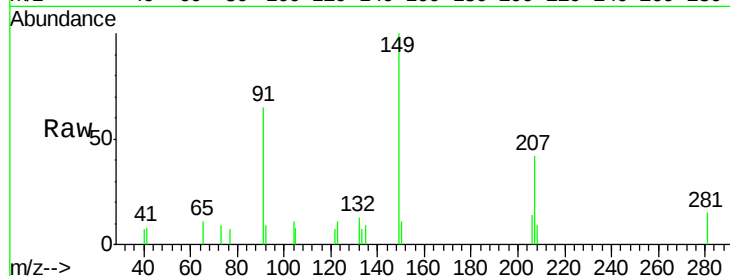




#79  
Butylbenzylphthalate  
Concen: 0.74 ng  
RT: 20.87 min Scan# 3070  
Delta R.T. -0.01 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

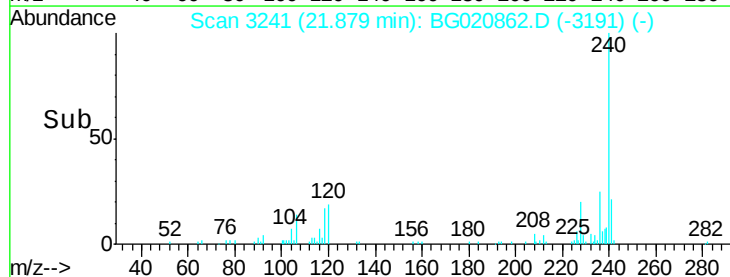
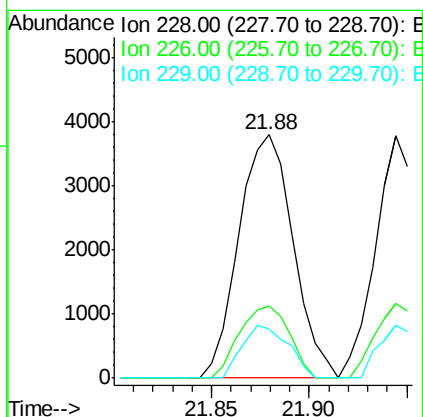
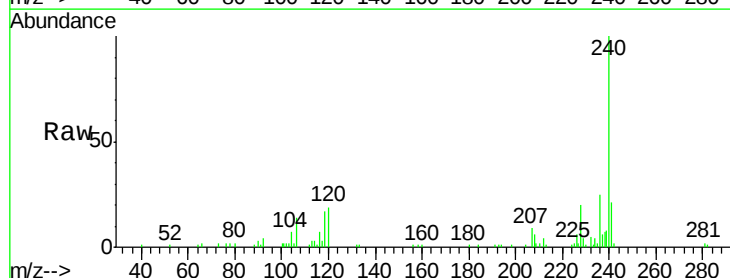
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01

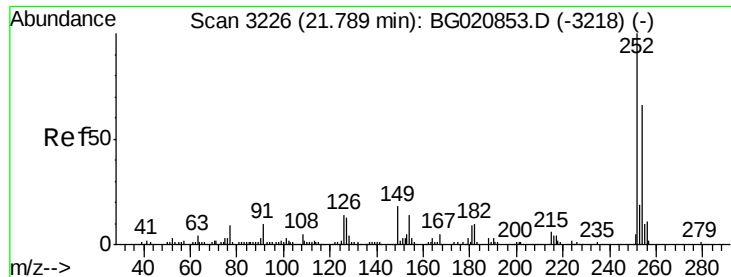
Tgt Ion:149 Resp: 3163  
Ion Ratio Lower Upper  
149 100  
91 65.4 50.6 76.0  
206 13.8 14.6 22.0#



#80  
Benzo(a)anthracene  
Concen: 0.90 ng  
RT: 21.88 min Scan# 3241  
Delta R.T. -0.00 min  
Lab File: BG020862.D  
Acq: 11 Feb 2016 18:49

Tgt Ion:228 Resp: 7307  
Ion Ratio Lower Upper  
228 100  
226 29.7 23.1 34.7  
229 20.3 16.2 24.2

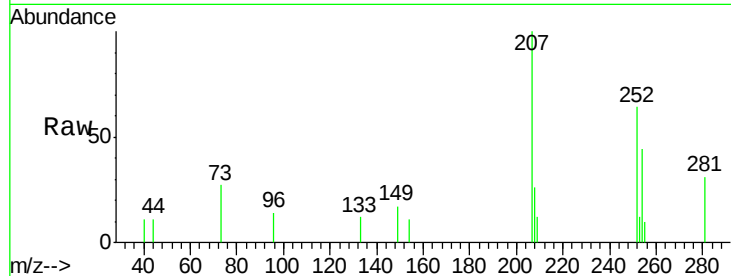




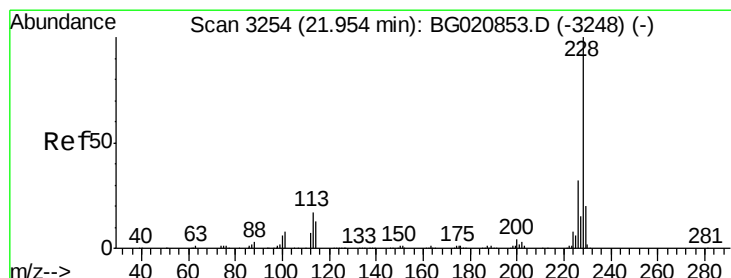
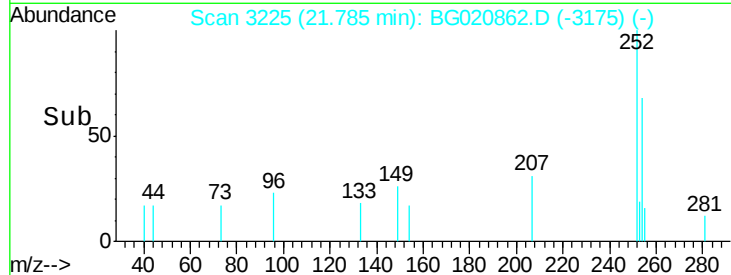
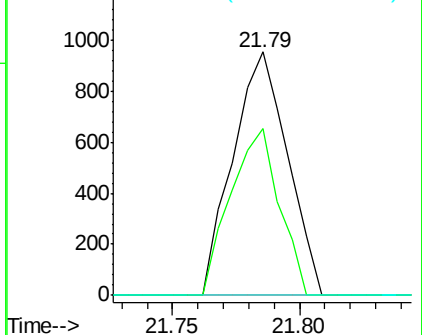
#81  
 3,3'-Dichlorobenzidine  
 Concen: 0.48 ng  
 RT: 21.79 min Scan# 3225  
 Delta R.T. -0.00 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

Tgt Ion:252 Resp: 1431  
 Ion Ratio Lower Upper  
 252 100  
 254 68.5 52.8 79.2  
 126 0.0 11.1 16.7#

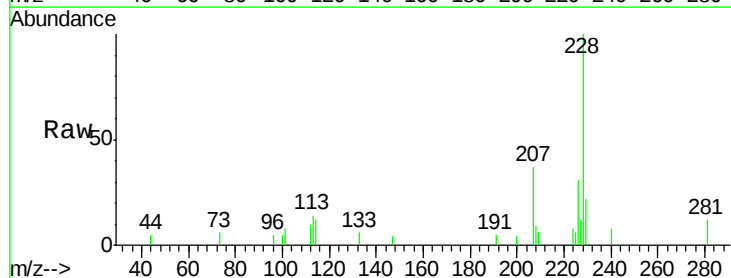


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

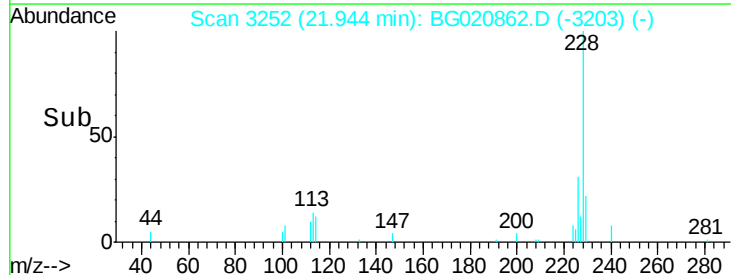
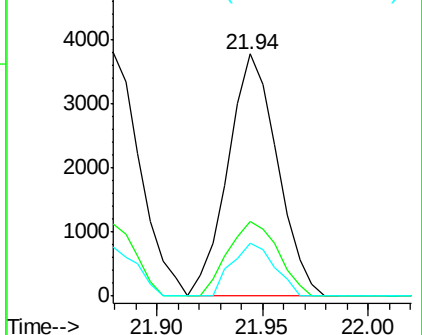


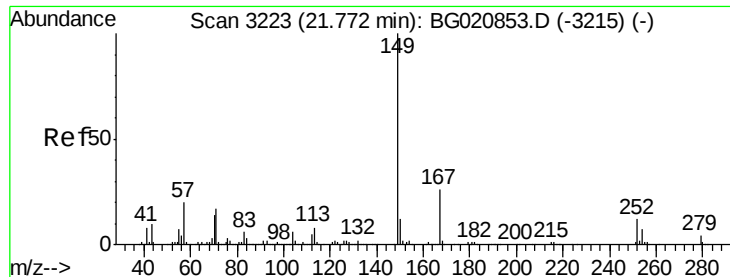
#82  
 Chrysene  
 Concen: 0.80 ng  
 RT: 21.94 min Scan# 3252  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion:228 Resp: 6107  
 Ion Ratio Lower Upper  
 228 100  
 226 30.7 25.3 37.9  
 229 22.0 16.2 24.2



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

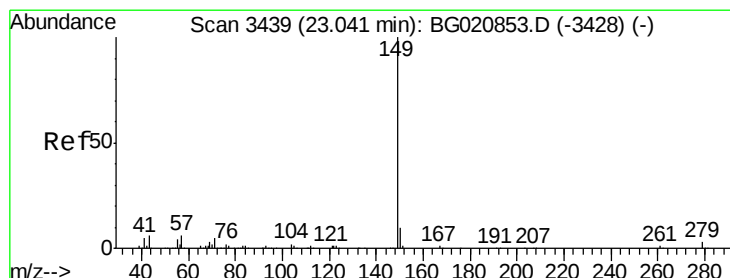
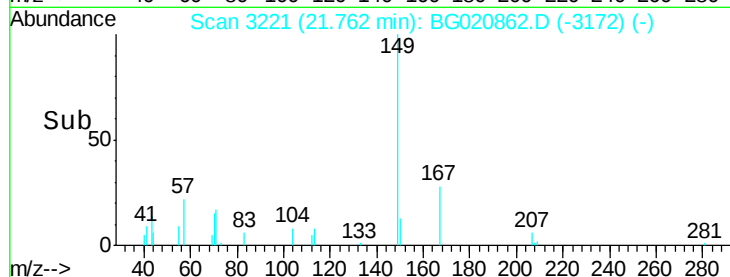
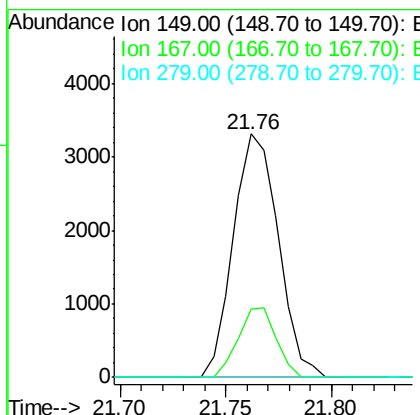
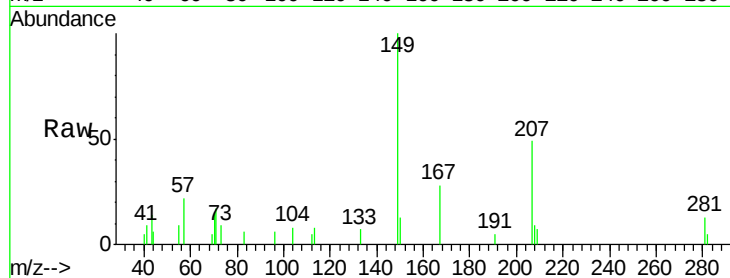




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.77 ng  
 RT: 21.76 min Scan# 3221  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

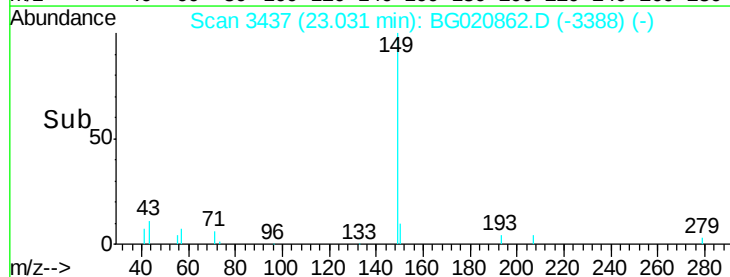
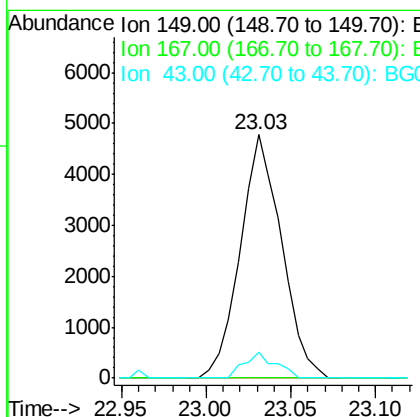
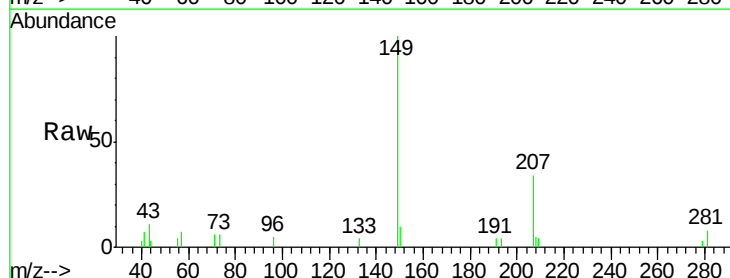
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

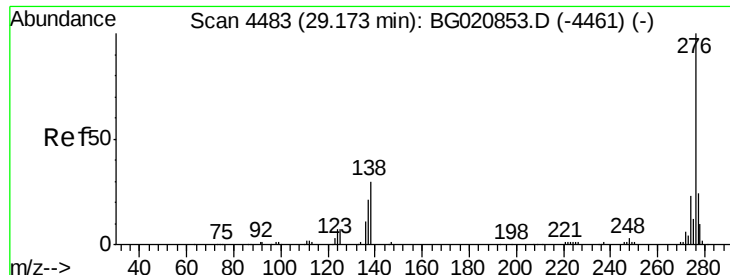
Tgt Ion:149 Resp: 4881  
 Ion Ratio Lower Upper  
 149 100  
 167 28.2 20.9 31.3  
 279 0.0 3.0 4.4#



#84  
 Di-n-octyl phthalate  
 Concen: 0.78 ng  
 RT: 23.03 min Scan# 3437  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion:149 Resp: 8107  
 Ion Ratio Lower Upper  
 149 100  
 167 0.0 1.2 1.8#  
 43 8.0 5.1 7.7#

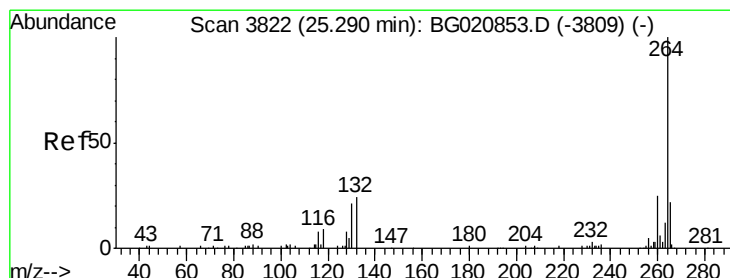
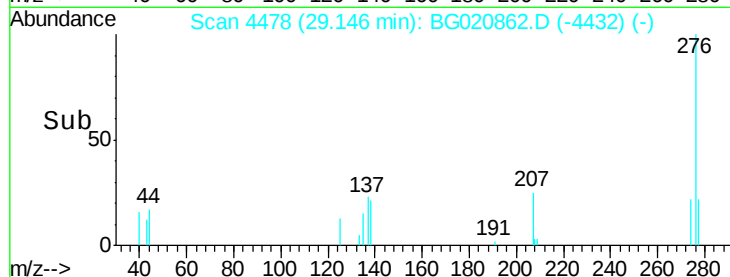
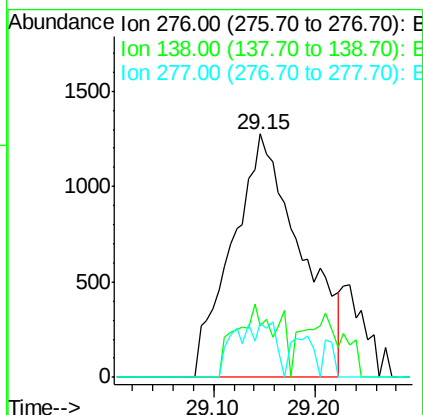
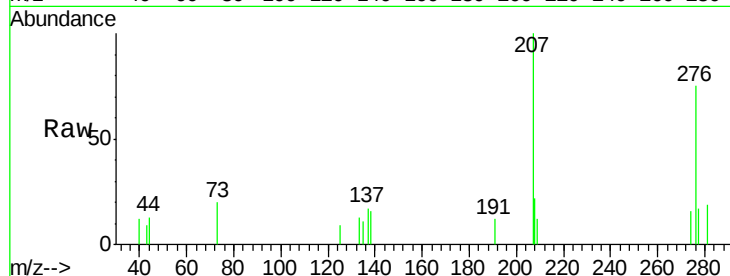




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.69 ng  
 RT: 29.15 min Scan# 4478  
 Delta R.T. -0.03 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

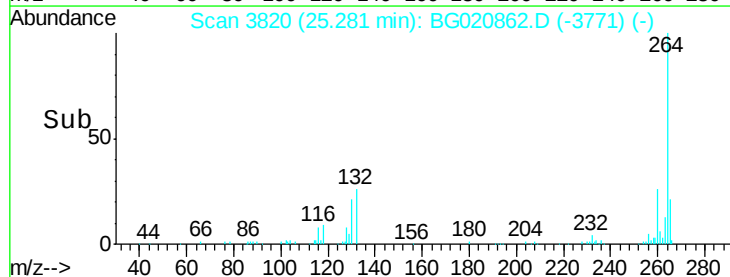
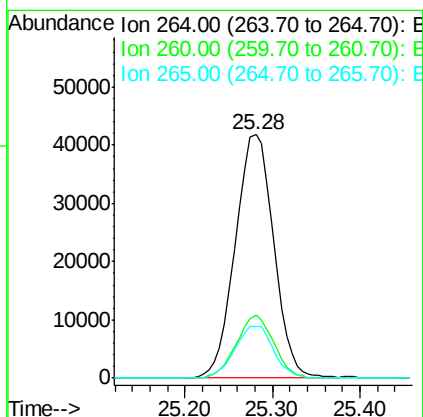
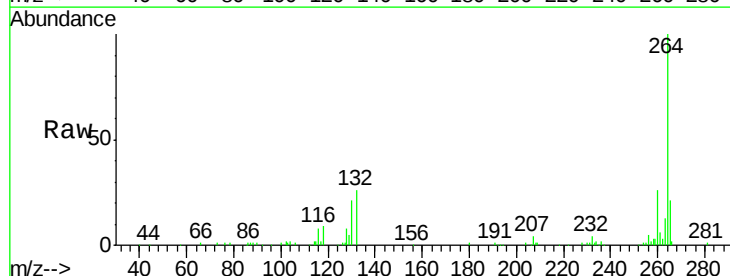
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01

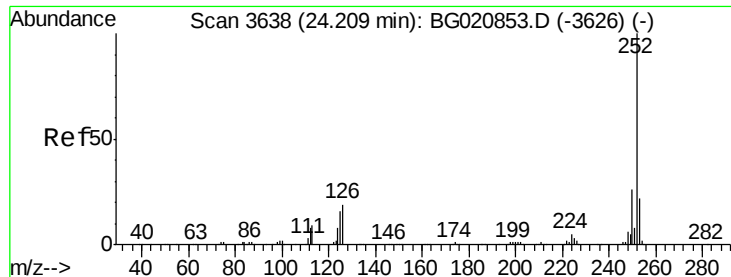
Tgt Ion: 276 Resp: 6005  
 Ion Ratio Lower Upper  
 276 100  
 138 17.6 20.1 30.1#  
 277 0.0 20.5 30.7#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 25.28 min Scan# 3820  
 Delta R.T. -0.01 min  
 Lab File: BG020862.D  
 Acq: 11 Feb 2016 18:49

Tgt Ion: 264 Resp: 125074  
 Ion Ratio Lower Upper  
 264 100  
 260 26.0 19.9 29.9  
 265 21.3 18.0 27.0





#87

Benzo(b)fluoranthene

Concen: 0.81 ng

RT: 24.20 min Scan# 3636

Delta R.T. -0.01 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

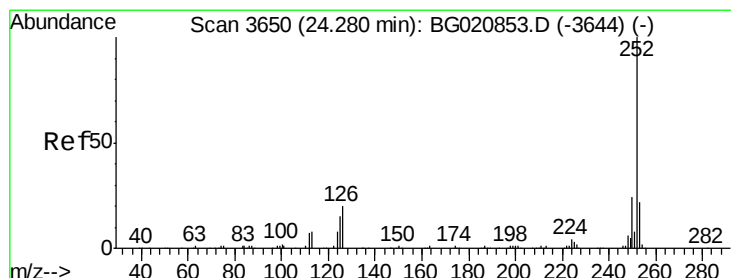
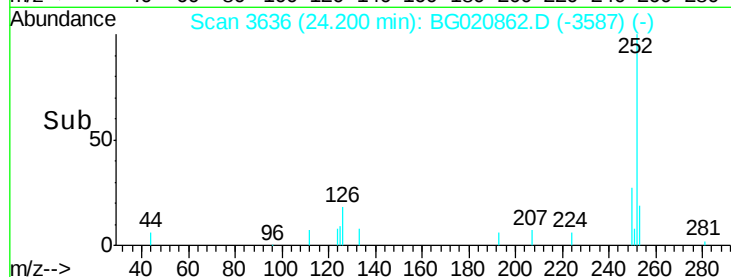
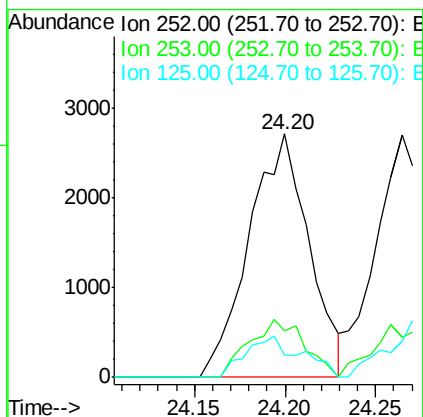
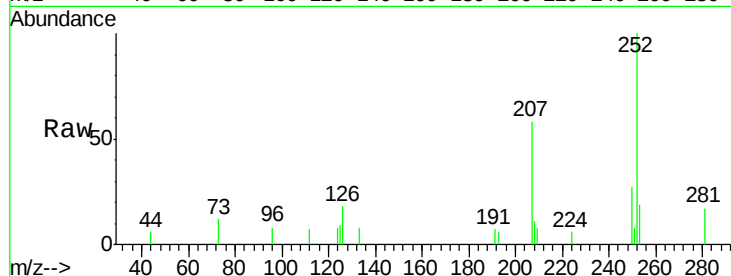
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 6219  |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 19.3 | 17.5  | 26.3  |
| 125       | 9.1  | 12.5  | 18.7# |



#88

Benzo(k)fluoranthene

Concen: 0.84 ng

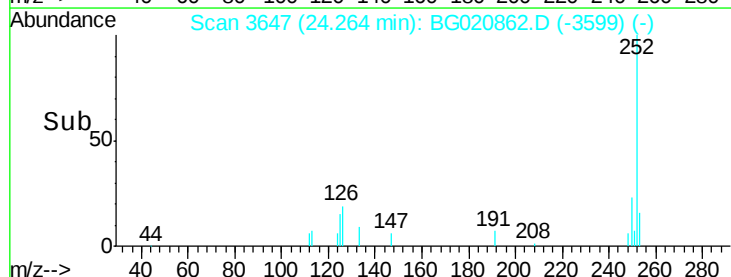
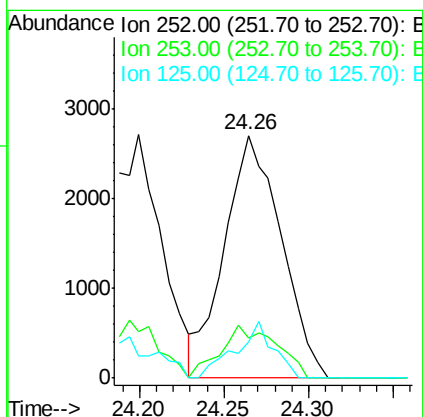
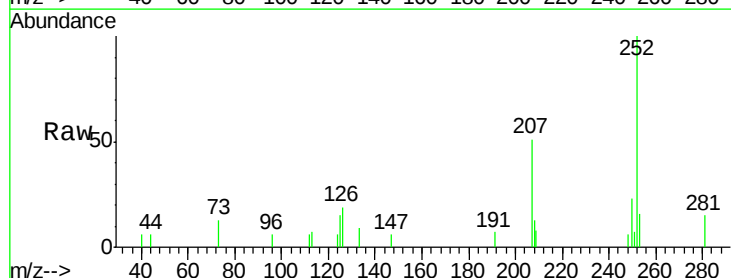
RT: 24.26 min Scan# 3647

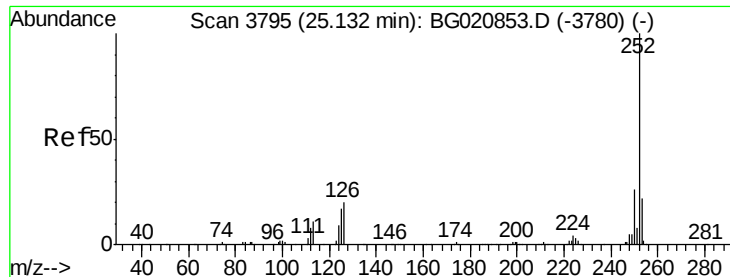
Delta R.T. -0.02 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 6297  |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 16.5 | 17.7  | 26.5# |
| 125       | 15.0 | 12.2  | 18.4  |





#89

Benzo(a)pyrene

Concen: 0.85 ng

RT: 25.11 min Scan# 3791

Delta R.T. -0.02 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01

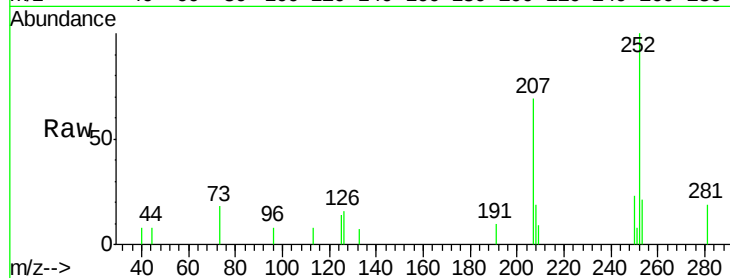
Tgt Ion:252 Resp: 6180

Ion Ratio Lower Upper

252 100

253 20.6 17.4 26.2

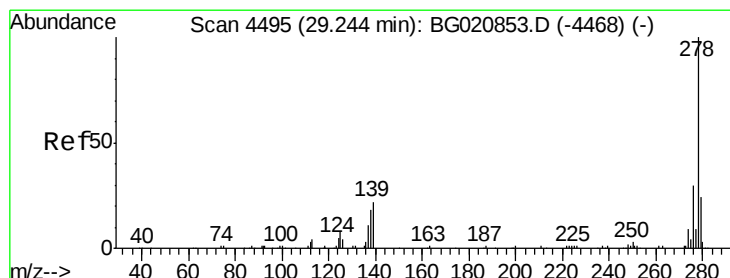
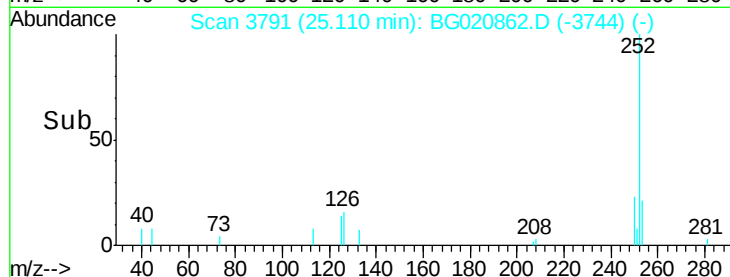
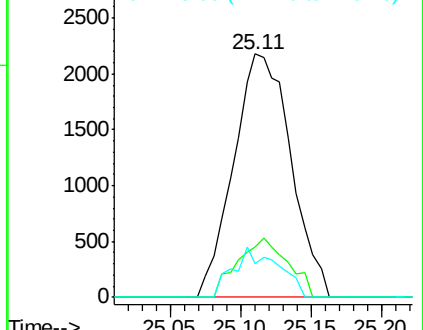
125 13.9 13.6 20.4



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: 0.74 ng

RT: 29.22 min Scan# 4491

Delta R.T. -0.02 min

Lab File: BG020862.D

Acq: 11 Feb 2016 18:49

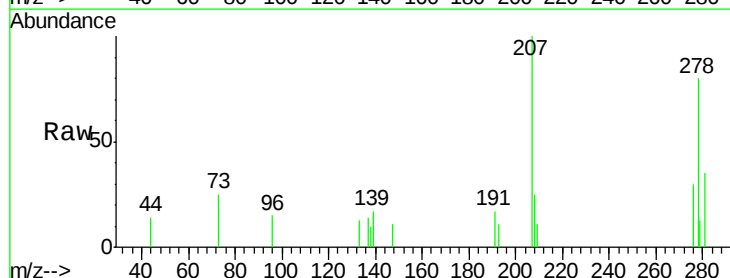
Tgt Ion:278 Resp: 5248

Ion Ratio Lower Upper

278 100

139 21.0 17.3 25.9

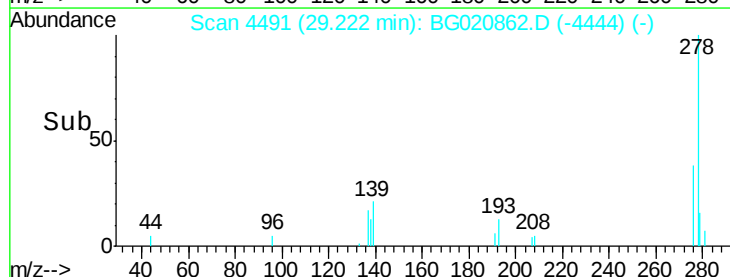
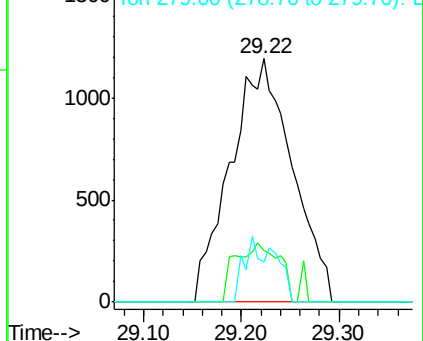
279 16.4 19.1 28.7#

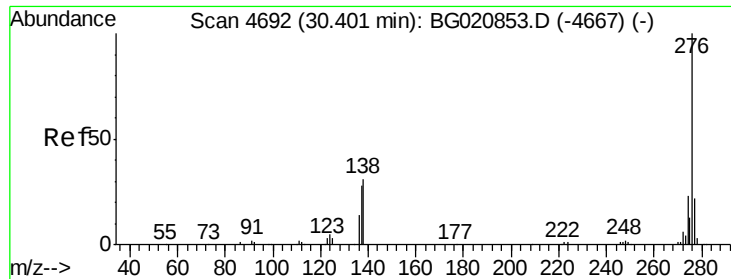


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 0.35 ng

RT: 30.34 min Scan# 4681

Delta R.T. -0.06 min

Lab File: BG020862.D

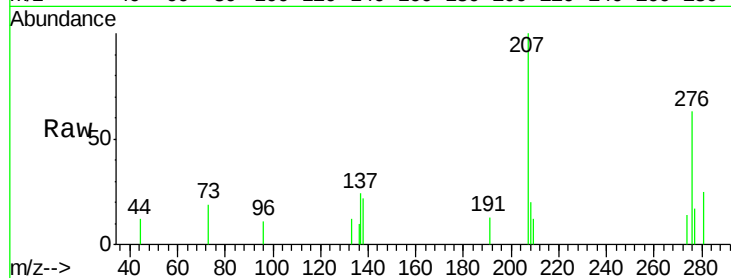
Acq: 11 Feb 2016 18:49

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01



Tgt Ion: 276 Resp: 2466

Ion Ratio Lower Upper

276 100

277 27.3 17.6 26.4#

138 34.4 25.2 37.8

