

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG092316\  
 Data File : BG024097.D  
 Acq On : 23 Sep 2016 21:20  
 Operator : UM/SJ  
 Sample : H4818-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

Quant Time: Sep 24 00:25:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG092316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 23 15:35:28 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 35604    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.87 | 136  | 149918   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.72 | 164  | 134237   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.48 | 188  | 352009   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.79 | 240  | 390316   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 25.13 | 264  | 381234   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.59  | 112 | 310209  | 150.95 | ng | 0.00 |
| 7) Phenol-d6             | 7.21  | 99  | 470626  | 136.10 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.22  | 82  | 342078  | 89.93  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.22 | 330 | 259084  | 134.27 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.33 | 172 | 713129  | 89.30  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.09 | 244 | 1489361 | 78.13  | ng | 0.00 |

## Target Compounds

|                                |       |     |       |      |    | Qvalue |
|--------------------------------|-------|-----|-------|------|----|--------|
| 2) 1,4-Dioxane                 | 3.44  | 88  | 3863  | 4.91 | ng | # 76   |
| 4) n-Nitrosodimethylamine      | 3.78  | 42  | 4893  | 3.47 | ng | # 46   |
| 6) Aniline                     | 7.37  | 93  | 12540 | 2.58 | ng | 97     |
| 8) 2-Chlorophenol              | 7.61  | 128 | 11175 | 4.54 | ng | 87     |
| 9) Benzaldehyde                | 7.19  | 77  | 13272 | 7.05 | ng | 97     |
| 10) Phenol                     | 7.24  | 94  | 15984 | 4.40 | ng | 88     |
| 11) bis(2-Chloroethyl)ether    | 7.46  | 93  | 10321 | 3.60 | ng | 90     |
| 12) 1,3-Dichlorobenzene        | 7.94  | 146 | 10715 | 3.91 | ng | # 81   |
| 13) 1,4-Dichlorobenzene        | 8.08  | 146 | 12277 | 4.38 | ng | # 77   |
| 14) 1,2-Dichlorobenzene        | 8.40  | 146 | 11335 | 4.16 | ng | 86     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.57  | 45  | 14971 | 3.78 | ng | 90     |
| 17) 2-Methylphenol             | 8.52  | 107 | 8748  | 3.62 | ng | 97     |
| 18) Hexachloroethane           | 9.12  | 117 | 4615  | 3.91 | ng | # 74   |
| 19) n-Nitroso-di-n-propylamine | 8.85  | 70  | 11110 | 3.27 | ng | # 80   |
| 20) 3+4-Methylphenols          | 8.87  | 107 | 11351 | 3.23 | ng | # 55   |
| 22) Acetophenone               | 8.88  | 105 | 19182 | 4.44 | ng | 93     |
| 24) Nitrobenzene               | 9.26  | 77  | 15731 | 3.86 | ng | # 86   |
| 25) Isophorone                 | 9.79  | 82  | 28998 | 3.74 | ng | 97     |
| 26) 2-Nitrophenol              | 10.00 | 139 | 6066  | 4.19 | ng | # 78   |
| 27) 2,4-Dimethylphenol         | 10.06 | 122 | 9590  | 3.97 | ng | # 81   |
| 28) bis(2-Chloroethoxy)methane | 10.28 | 93  | 14961 | 3.97 | ng | # 95   |
| 29) 2,4-Dichlorophenol         | 10.57 | 162 | 9430  | 3.75 | ng | 89     |
| 30) 1,2,4-Trichlorobenzene     | 10.73 | 180 | 12595 | 4.68 | ng | 98     |
| 31) Naphthalene                | 10.93 | 128 | 33274 | 4.38 | ng | # 94   |
| 32) Benzoic acid               | 10.31 | 122 | 1045  | 2.76 | ng | # 33   |
| 33) 4-Chloroaniline            | 11.07 | 127 | 11490 | 3.39 | ng | # 89   |
| 34) Hexachlorobutadiene        | 11.19 | 225 | 8766  | 4.13 | ng | 90     |
| 35) Caprolactam                | 11.85 | 113 | 3302  | 3.23 | ng | # 78   |
| 36) 4-Chloro-3-methylphenol    | 12.21 | 107 | 13819 | 3.90 | ng | 93     |
| 37) 2-Methylnaphthalene        | 12.54 | 142 | 24315 | 4.18 | ng | 95     |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.91 | 216 | 15527 | 3.96 | ng | 94     |
| 40) Hexachlorocyclopentadiene  | 12.87 | 237 | 818   | 4.16 | ng | 85     |
| 42) 2,4,6-Trichlorophenol      | 13.28 | 196 | 10036 | 3.96 | ng | 88     |
| 43) 2,4,5-Trichlorophenol      | 13.28 | 196 | 10036 | 3.85 | ng | # 84   |

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG092316\  
 Data File : BG024097.D  
 Acq On : 23 Sep 2016 21:20  
 Operator : UM/SJ  
 Sample : H4818-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

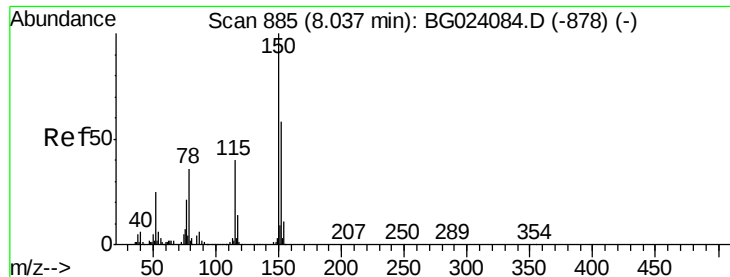
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

Quant Time: Sep 24 00:25:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG092316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 23 15:35:28 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 45) 1,1'-Biphenyl              | 13.55 | 154  | 37007    | 4.03 | ng    | 89       |
| 46) 2-Chloronaphthalene        | 13.59 | 162  | 28130    | 4.10 | ng    | 95       |
| 47) 2-Nitroaniline             | 13.83 | 65   | 10493    | 3.29 | ng    | 91       |
| 48) Acenaphthylene             | 14.44 | 152  | 47973    | 4.12 | ng    | 94       |
| 49) Dimethylphthalate          | 14.17 | 163  | 44580    | 4.33 | ng    | # 95     |
| 50) 2,6-Dinitrotoluene         | 14.31 | 165  | 8934     | 4.13 | ng    | 94       |
| 51) Acenaphthene               | 14.78 | 154  | 30299    | 4.29 | ng    | 93       |
| 52) 3-Nitroaniline             | 14.66 | 138  | 6193     | 2.87 | ng    | 81       |
| 53) 2,4-Dinitrophenol          | 14.93 | 184  | 110      | 2.55 | ng    | # 10     |
| 54) Dibenzofuran               | 15.12 | 168  | 53666    | 4.88 | ng    | 97       |
| 55) 4-Nitrophenol              | 15.07 | 139  | 1030     | 5.91 | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 15.11 | 165  | 13076    | 3.97 | ng    | # 67     |
| 57) Fluorene                   | 15.77 | 166  | 43075    | 4.50 | ng    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.37 | 232  | 11608    | 4.61 | ng    | # 97     |
| 59) Diethylphthalate           | 15.53 | 149  | 50348    | 4.54 | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.76 | 204  | 21525    | 4.20 | ng    | 88       |
| 61) 4-Nitroaniline             | 15.84 | 138  | 4755     | 2.12 | ng    | 91       |
| 62) Azobenzene                 | 16.06 | 77   | 51319    | 4.55 | ng    | 92       |
| 64) 4,6-Dinitro-2-methylphenol | 15.90 | 198  | 5430     | 2.22 | ng    | # 81     |
| 65) n-Nitrosodiphenylamine     | 15.98 | 169  | 39424    | 4.09 | ng    | 93       |
| 66) 4-Bromophenyl-phenylether  | 16.65 | 248  | 16480    | 4.04 | ng    | # 80     |
| 67) Hexachlorobenzene          | 16.78 | 284  | 17614    | 3.83 | ng    | # 93     |
| 68) Atrazine                   | 16.93 | 200  | 17455    | 4.11 | ng    | 82       |
| 69) Pentachlorophenol          | 17.17 | 266  | 4034     | 5.18 | ng    | # 78     |
| 70) Phenanthrene               | 17.52 | 178  | 78224    | 4.36 | ng    | 98       |
| 71) Anthracene                 | 17.62 | 178  | 80143    | 4.35 | ng    | 96       |
| 72) Carbazole                  | 17.91 | 167  | 71558    | 4.17 | ng    | 100      |
| 73) Di-n-butylphthalate        | 18.43 | 149  | 89203    | 3.97 | ng    | 97       |
| 74) Fluoranthene               | 19.55 | 202  | 101469   | 4.33 | ng    | 94       |
| 76) Benzidine                  | 19.74 | 184  | 39904    | 3.61 | ng    | # 88     |
| 77) Pyrene                     | 19.91 | 202  | 106728   | 3.92 | ng    | # 92     |
| 79) Butylbenzylphthalate       | 20.77 | 149  | 39128    | 3.90 | ng    | 98       |
| 80) Benzo(a)anthracene         | 21.77 | 228  | 101048   | 4.55 | ng    | # 93     |
| 81) 3,3'-Dichlorobenzidine     | 21.70 | 252  | 18298    | 2.30 | ng    | # 88     |
| 82) Chrysene                   | 21.84 | 228  | 92351    | 4.42 | ng    | 95       |
| 83) Bis(2-ethylhexyl)phthalate | 21.64 | 149  | 55844    | 4.66 | ng    | # 90     |
| 84) Di-n-octyl phthalate       | 22.88 | 149  | 96786    | 4.68 | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 24.14 | 252  | 90951    | 4.10 | ng    | 93       |
| 88) Benzo(k)fluoranthene       | 24.14 | 252  | 90951    | 4.13 | ng    | # 92     |
| 89) Benzo(a)pyrene             | 24.97 | 252  | 93357    | 4.35 | ng    | 94       |
| 90) Dibenzo(a,h)anthracene     | 29.02 | 278  | 87679    | 4.10 | ng    | # 88     |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.04 min Scan# 886

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

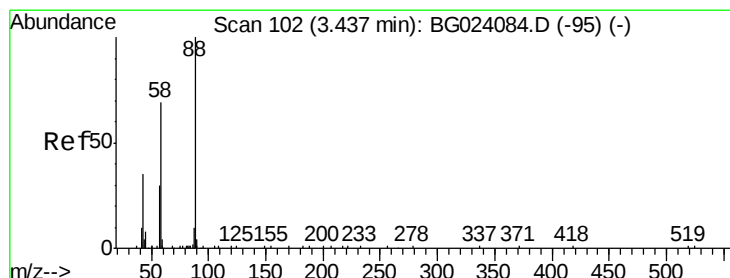
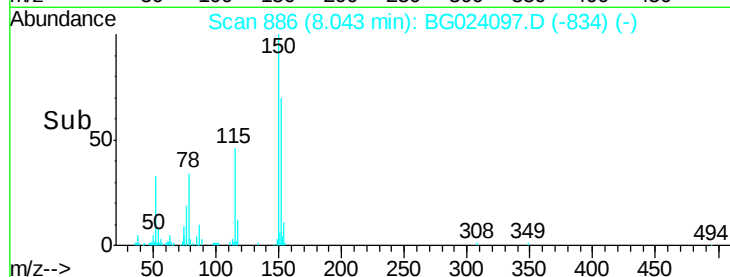
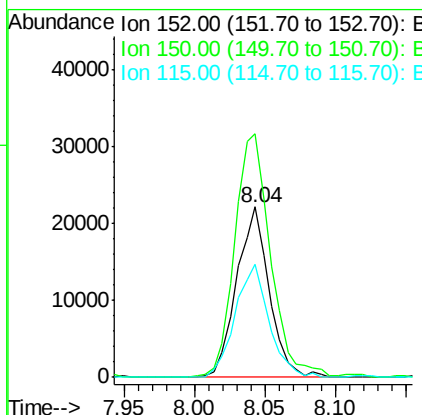
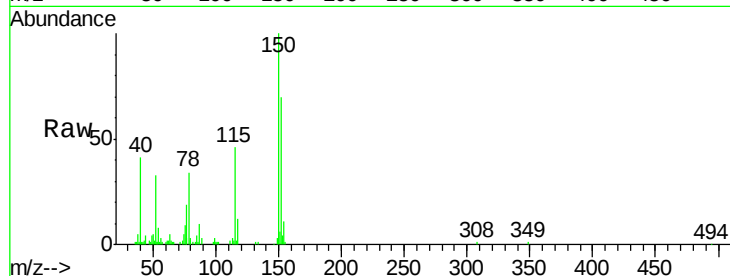
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:152 Resp: 35604  
 Ion Ratio Lower Upper  
 152 100  
 150 143.1 144.7 217.1#  
 115 66.1 64.0 96.0



#2

1,4-Dioxane

Concen: 4.91 ng

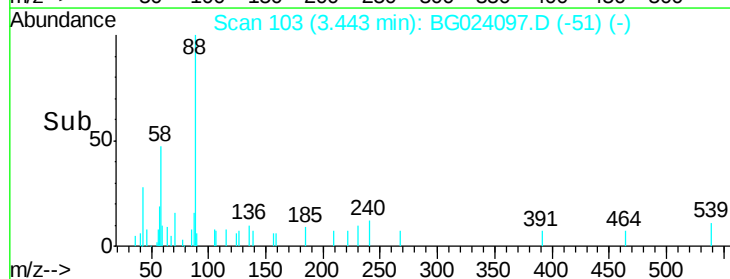
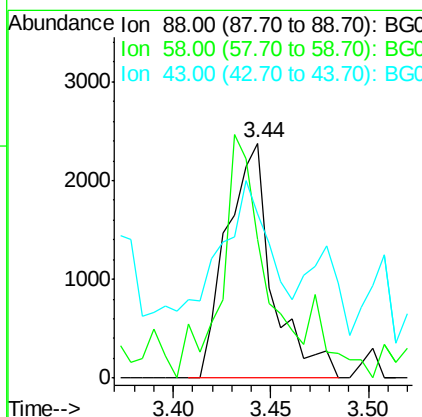
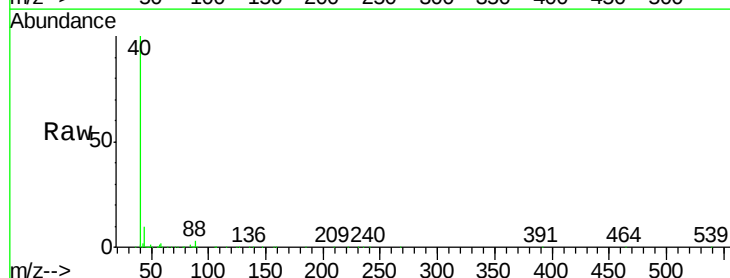
RT: 3.44 min Scan# 103

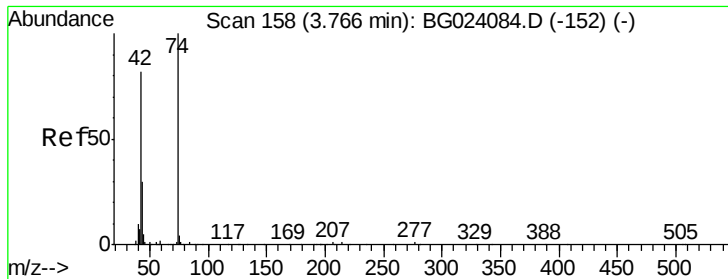
Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion: 88 Resp: 3863  
 Ion Ratio Lower Upper  
 88 100  
 58 95.8 60.4 90.6#  
 43 53.4 31.1 46.7#





#4

n-Nitrosodimethylamine

Concen: 3.47 ng

RT: 3.78 min Scan# 160

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

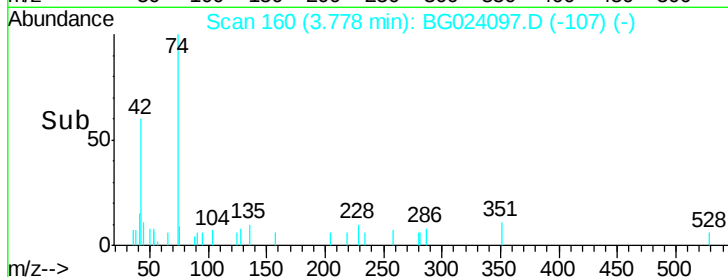
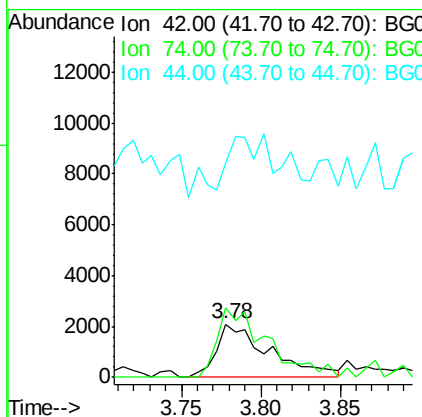
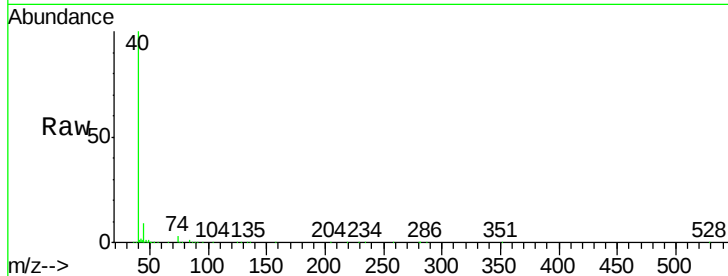
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 4893  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 130.3 | 100.6 | 150.8 |
| 44       | 400.0 | 4.5   | 6.7#  |



#5

2-Fluorophenol

Concen: 150.95 ng

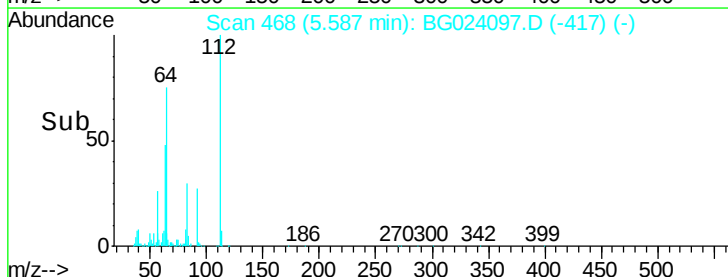
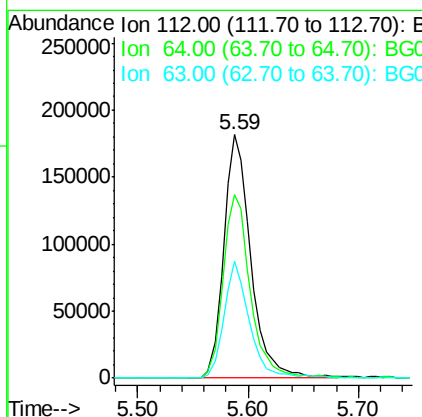
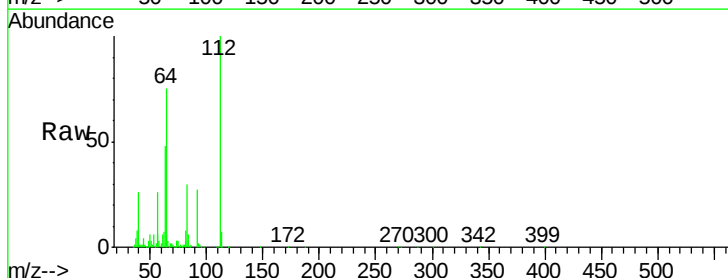
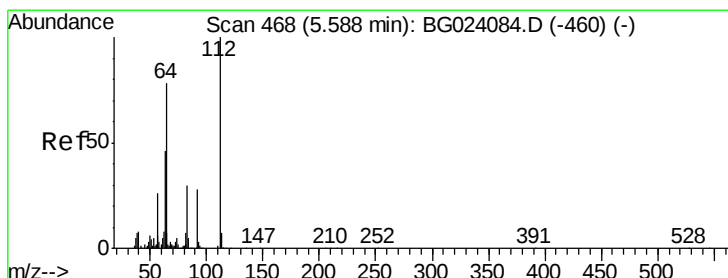
RT: 5.59 min Scan# 468

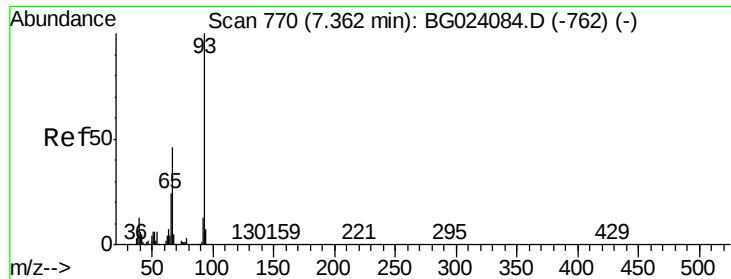
Delta R.T. 0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 310209 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 75.4  | 59.0  | 88.4   |
| 63       | 48.1  | 37.8  | 56.8   |





#6

Aniline

Concen: 2.58 ng

RT: 7.37 min Scan# 771

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

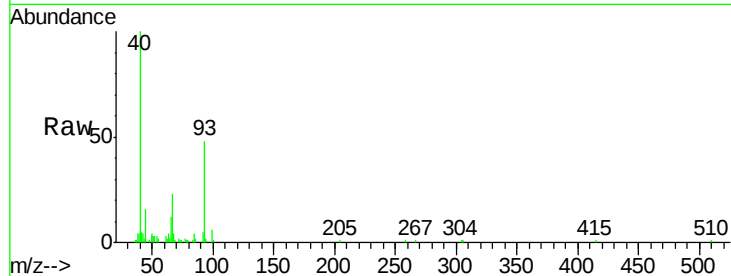
Tgt Ion: 93 Resp: 12540

Ion Ratio Lower Upper

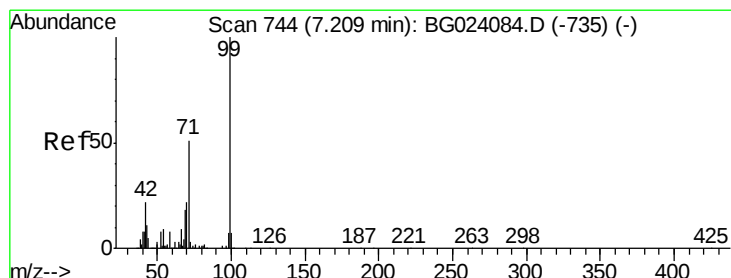
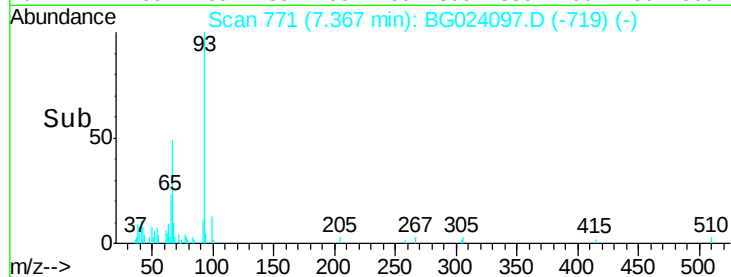
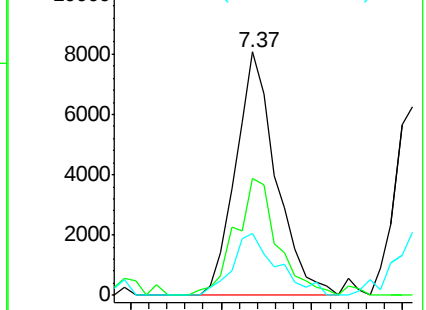
93 100

66 48.0 37.5 56.3

65 25.4 17.9 26.9



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: 136.10 ng

RT: 7.21 min Scan# 744

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

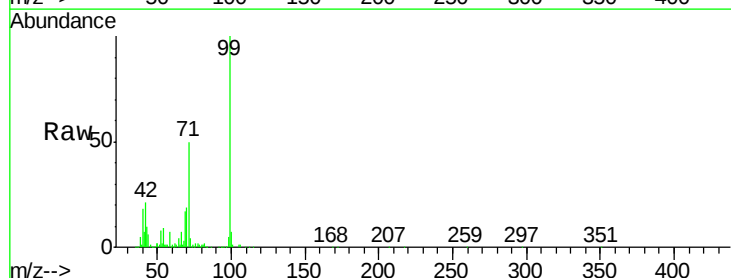
Tgt Ion: 99 Resp: 470626

Ion Ratio Lower Upper

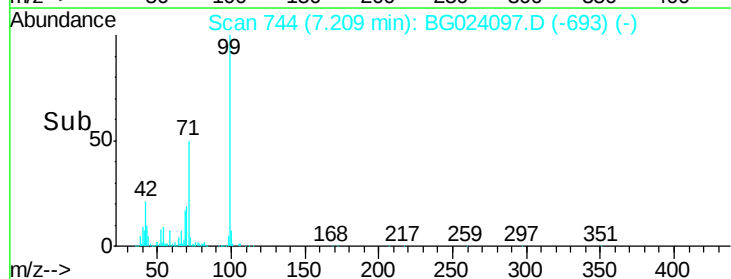
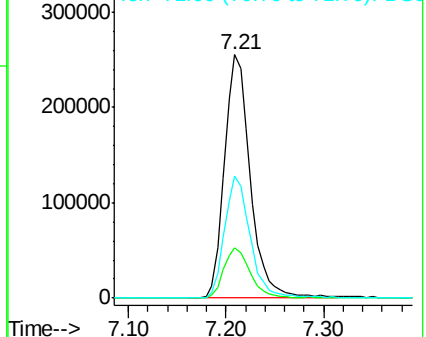
99 100

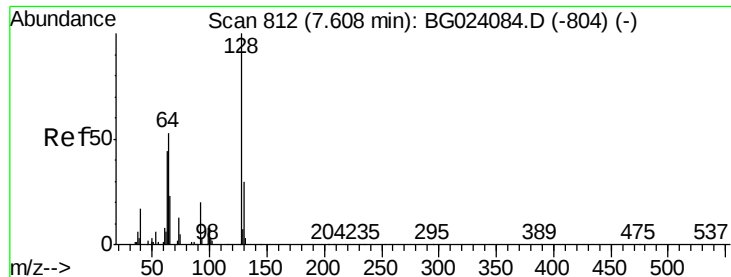
42 20.9 17.8 26.6

71 50.1 41.5 62.3



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: 4.54 ng

RT: 7.61 min Scan# 812

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

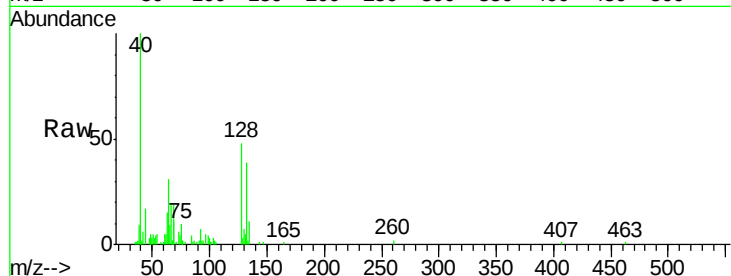
Tgt Ion:128 Resp: 11175

Ion Ratio Lower Upper

128 100

130 15.1 12.9 52.9

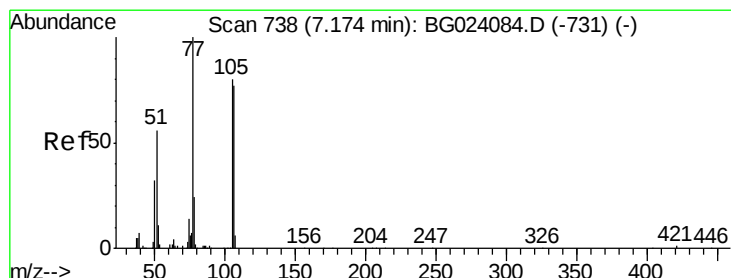
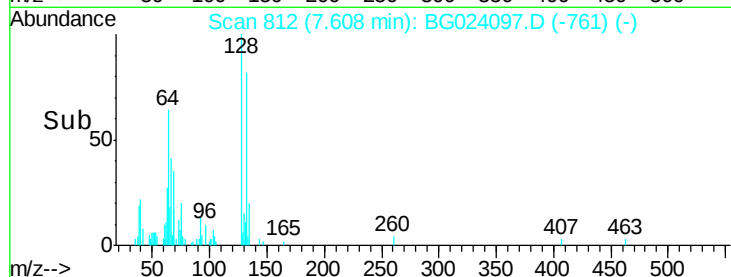
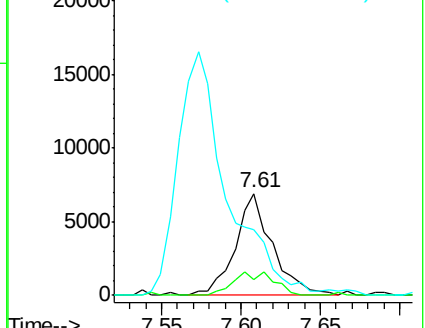
64 64.3 42.0 82.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BGC



#9

Benzaldehyde

Concen: 7.05 ng

RT: 7.19 min Scan# 741

Delta R.T. 0.02 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

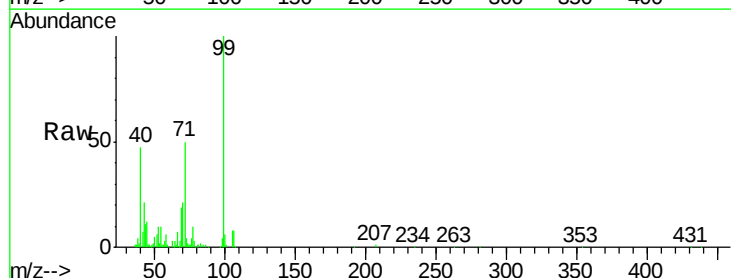
Tgt Ion: 77 Resp: 13272

Ion Ratio Lower Upper

77 100

105 84.4 58.7 98.7

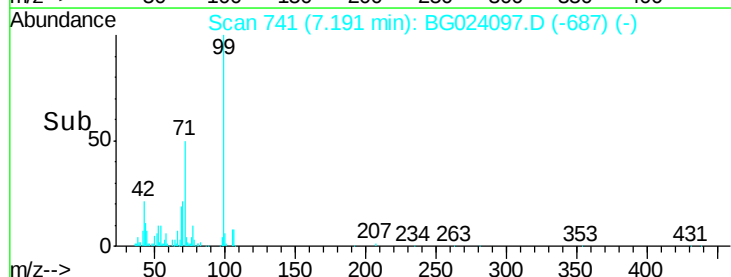
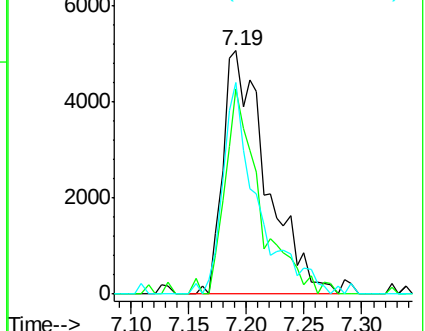
106 86.8 67.5 107.5

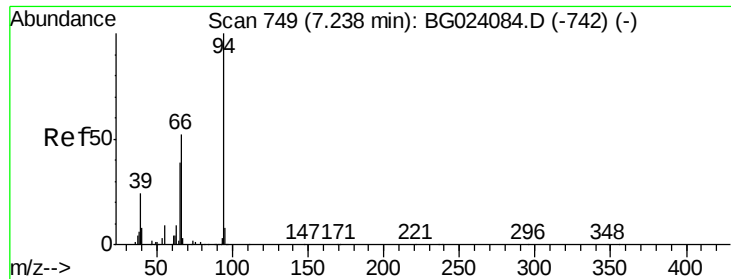


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 4.40 ng

RT: 7.24 min Scan# 749

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

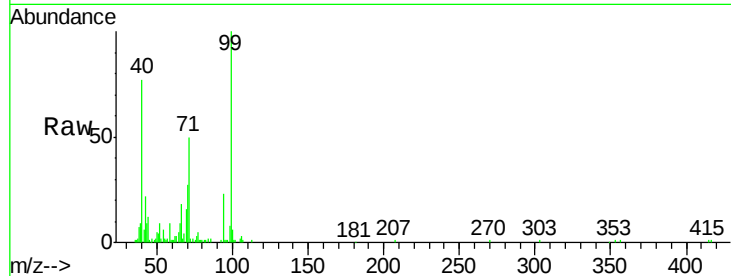
Tgt Ion: 94 Resp: 15984

Ion Ratio Lower Upper

94 100

65 38.1 18.1 58.1

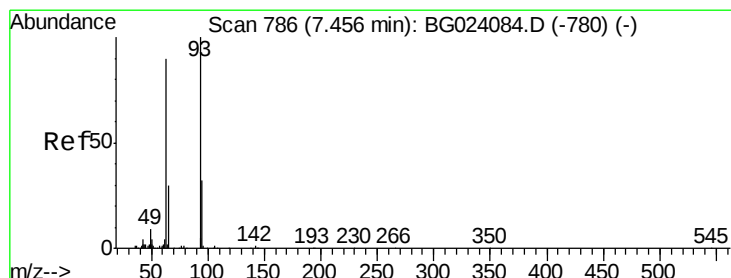
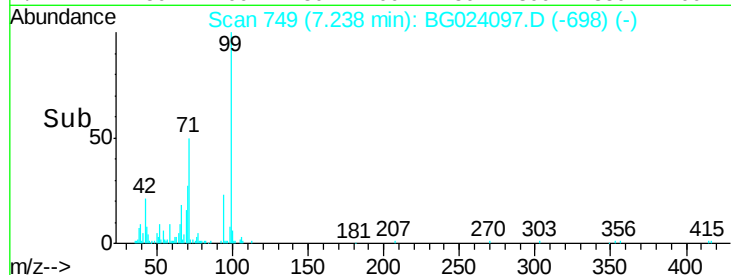
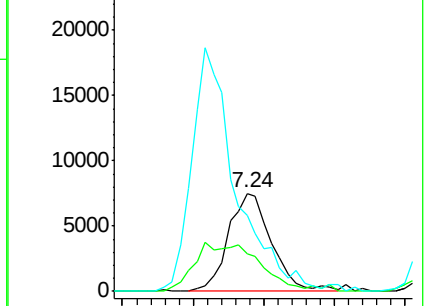
66 77.4 42.1 82.1



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: 3.60 ng

RT: 7.46 min Scan# 786

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

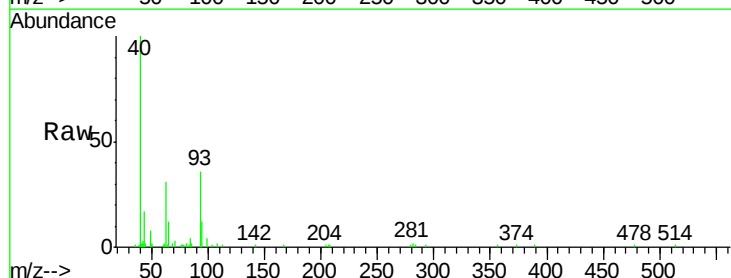
Tgt Ion: 93 Resp: 10321

Ion Ratio Lower Upper

93 100

63 86.2 55.0 95.0

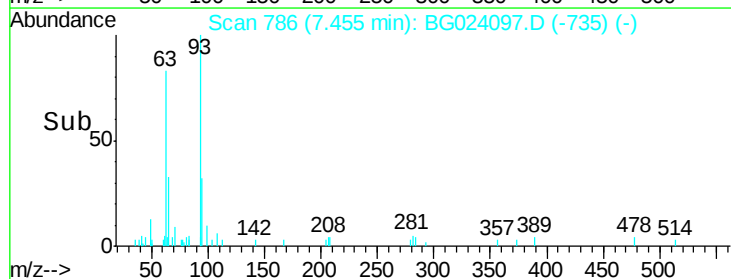
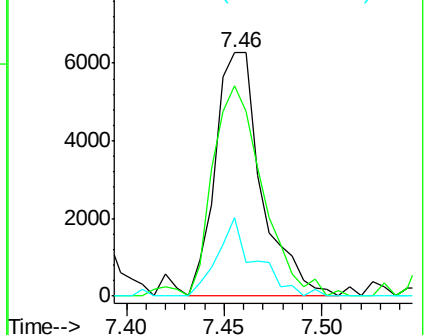
95 32.4 11.0 51.0

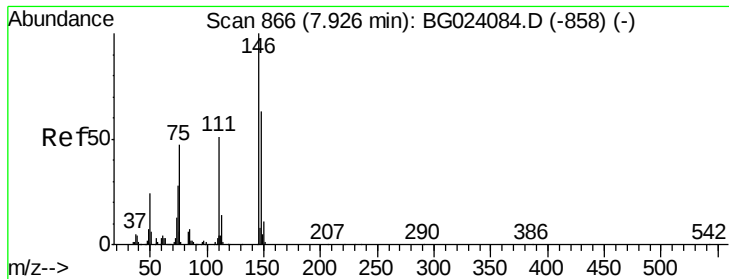


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Ion 95.00 (94.70 to 95.70): BGC





#12

1,3-Dichlorobenzene

Concen: 3.91 ng

RT: 7.94 min Scan# 868

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

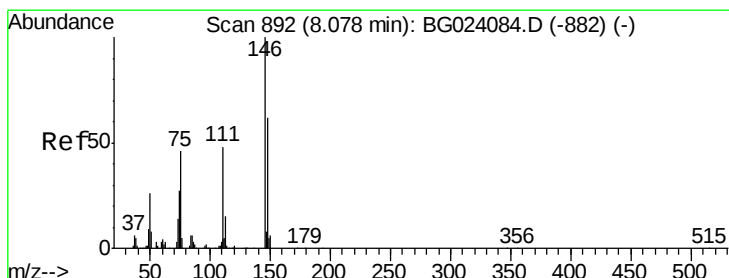
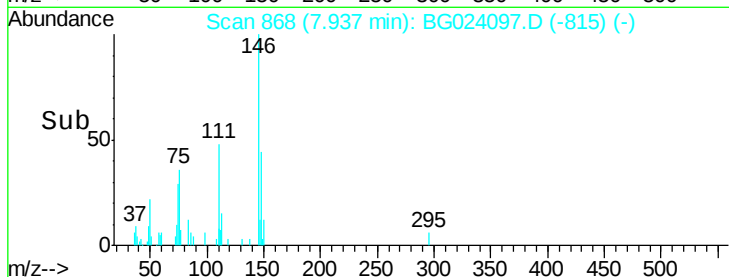
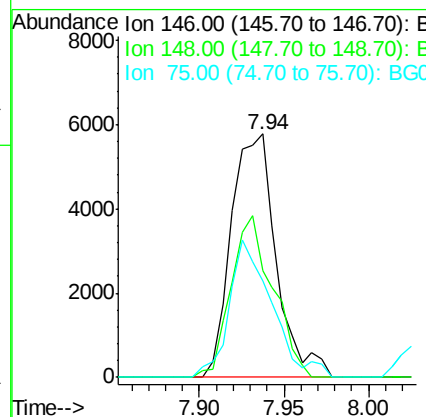
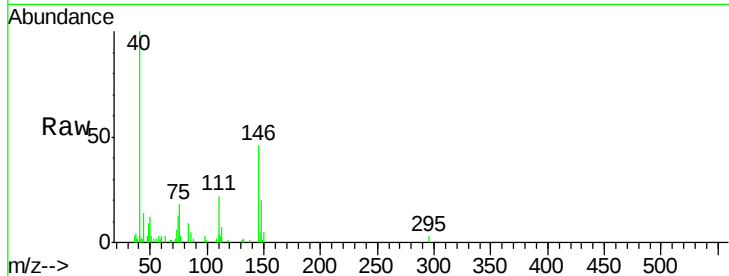
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 10715 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 148       | 43.9  | 50.3  | 75.5# |
| 75        | 39.3  | 37.0  | 55.6  |



#13

1,4-Dichlorobenzene

Concen: 4.38 ng

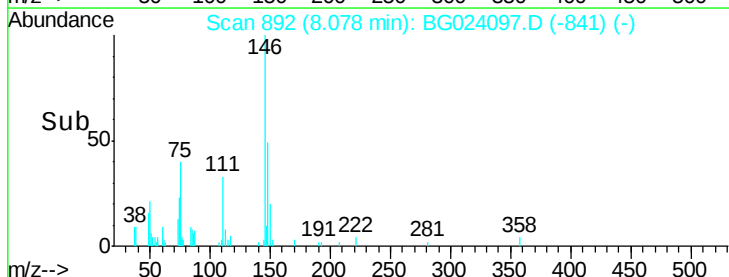
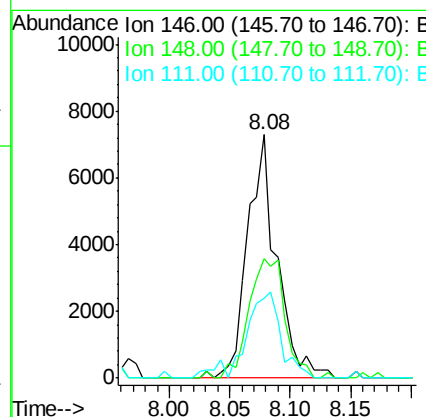
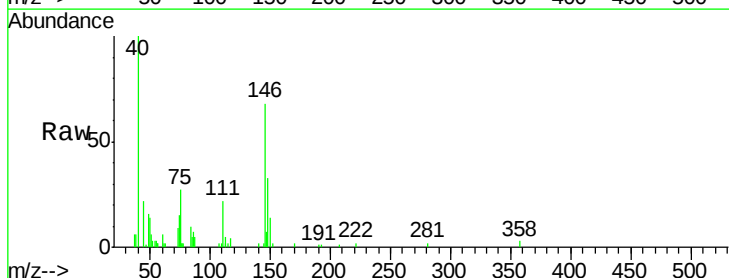
RT: 8.08 min Scan# 892

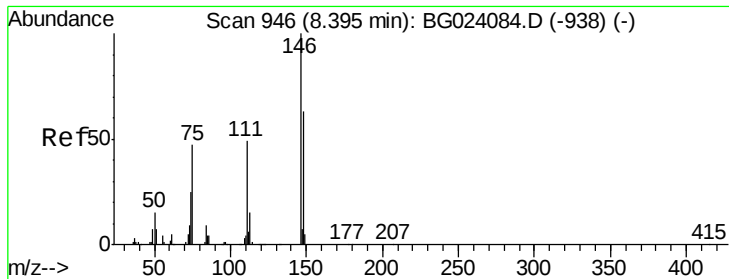
Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 12277 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 148       | 49.0  | 54.5  | 81.7# |
| 111       | 32.6  | 37.8  | 56.8# |

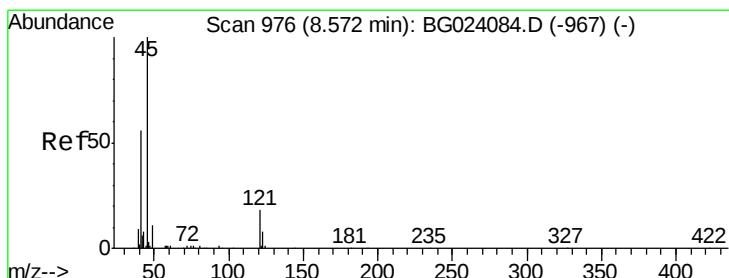
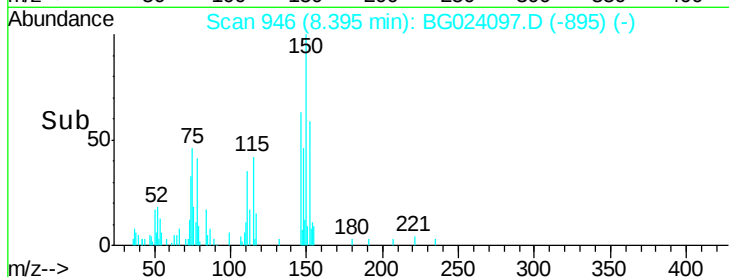
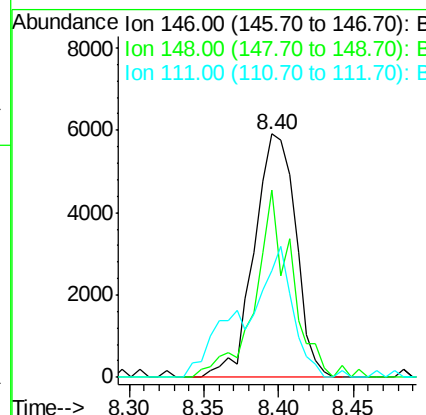
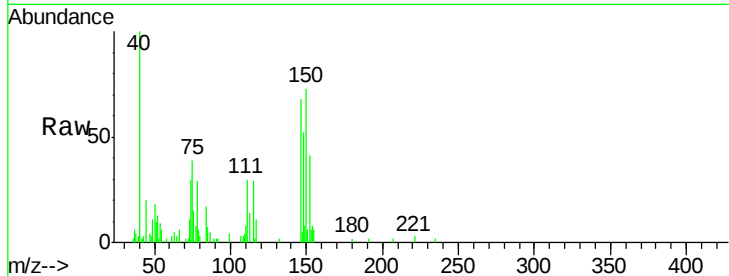




#14  
 1,2-Dichlorobenzene  
 Concen: 4.16 ng  
 RT: 8.40 min Scan# 946  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

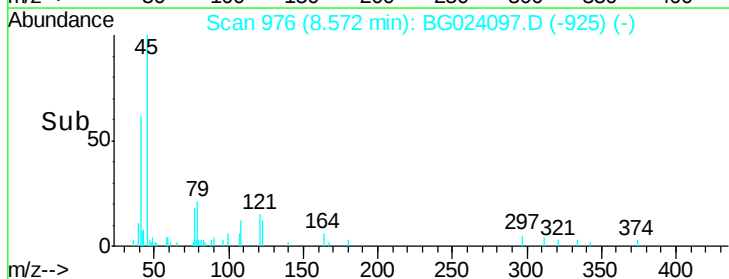
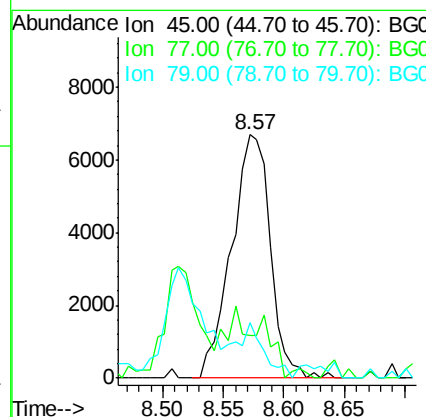
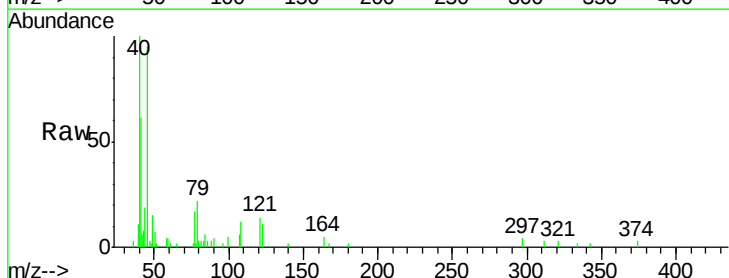
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

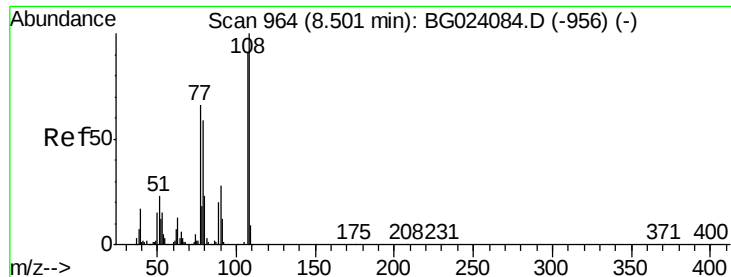
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 76.9  | 52.9  | 79.3  |
| 111     | 44.0  | 43.5  | 65.3  |



#16  
 2,2'-oxybis(1-Chloropropane)  
 Concen: 3.78 ng  
 RT: 8.57 min Scan# 976  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 17.8  | 0.6   | 40.6  |
| 79      | 22.9  | 0.0   | 36.2  |

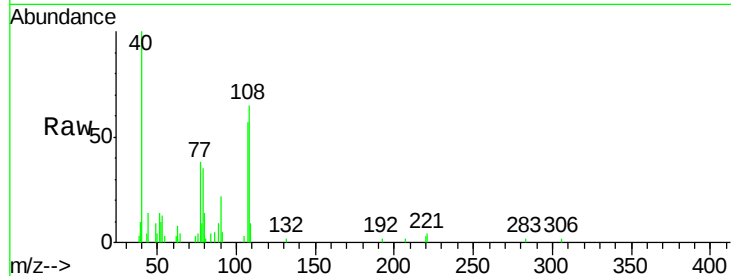




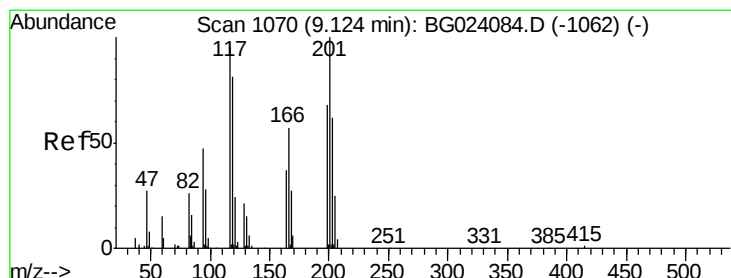
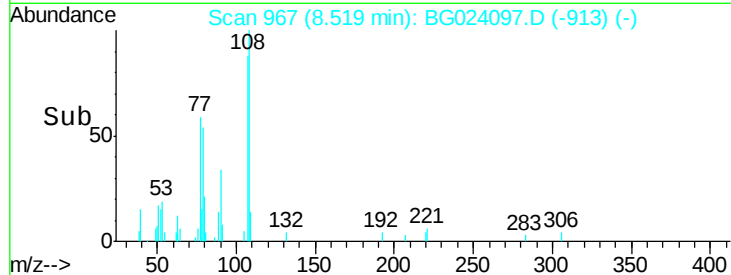
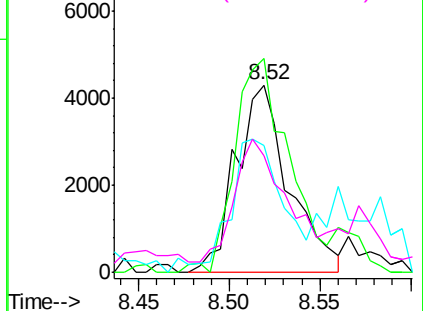
#17  
2-Methylphenol  
Concen: 3.62 ng  
RT: 8.52 min Scan# 967  
Delta R.T. 0.02 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

Tgt Ion:107 Resp: 8748  
Ion Ratio Lower Upper  
107 100  
108 114.0 92.0 138.0  
77 67.3 55.8 83.6  
79 62.0 55.0 82.6

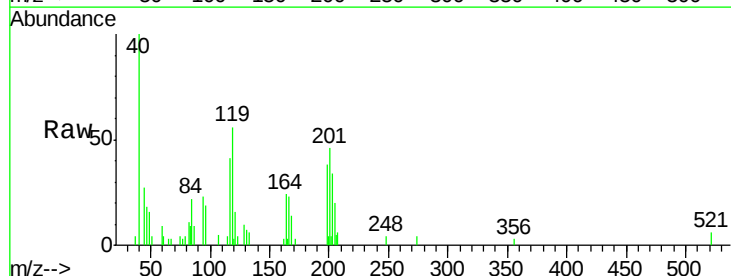


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BG  
Ion 79.00 (78.70 to 79.70): BG

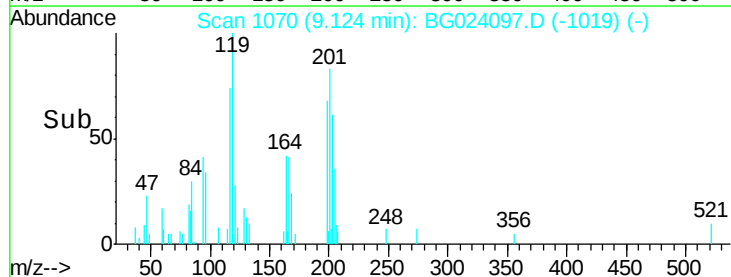
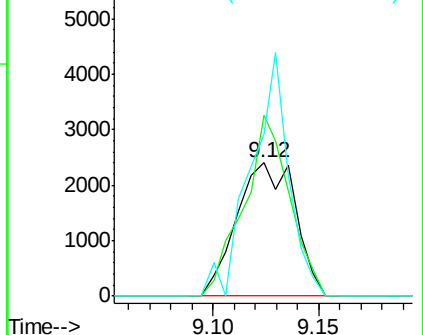


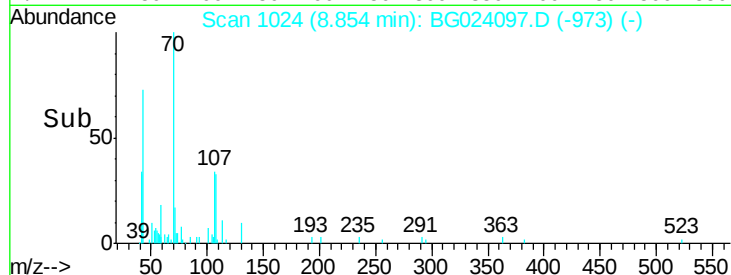
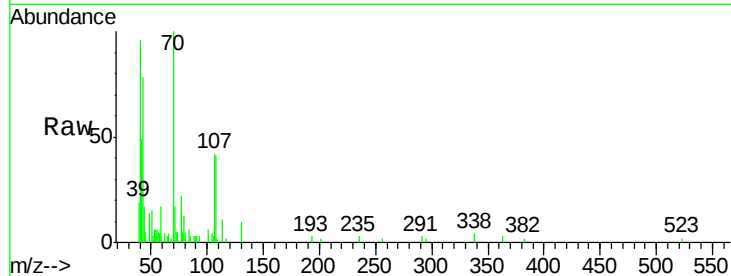
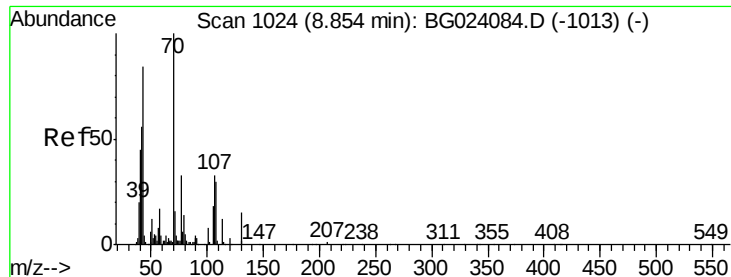
#18  
Hexachloroethane  
Concen: 3.91 ng  
RT: 9.12 min Scan# 1070  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion:117 Resp: 4615  
Ion Ratio Lower Upper  
117 100  
119 135.4 73.7 110.5#  
201 121.4 88.7 133.1



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

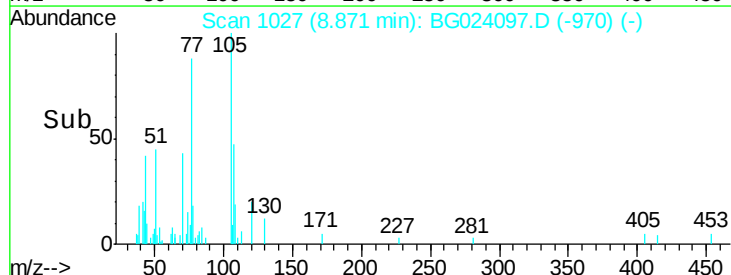
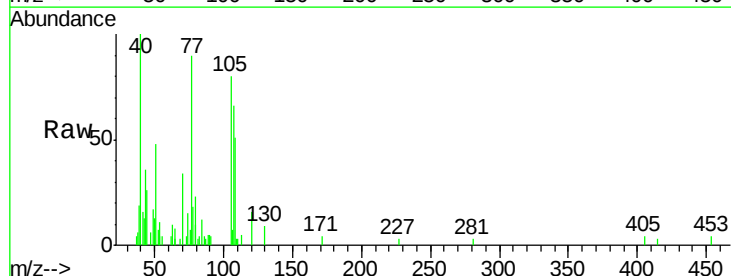
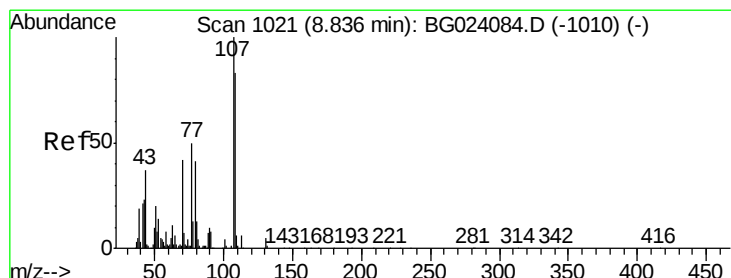
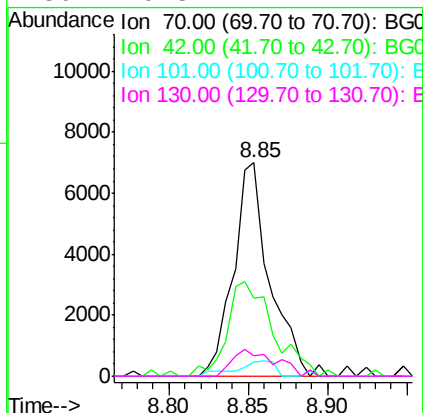




#19  
n-Nitroso-di-n-propylamine  
Concen: 3.27 ng  
RT: 8.85 min Scan# 1024  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

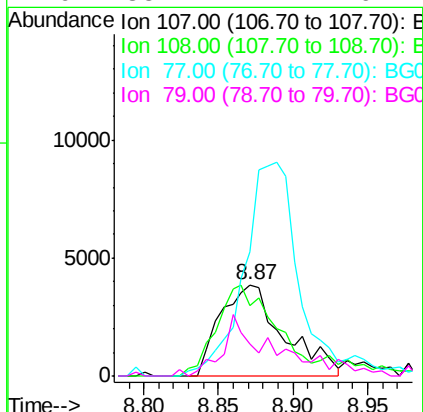
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

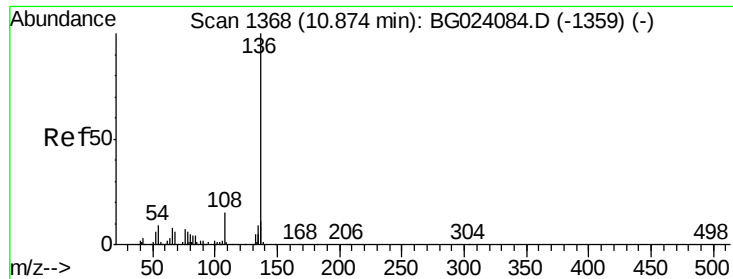
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 70    | Resp: | 11110 |
| Ion Ratio | Lower | Upper |       |
| 70        | 100   |       |       |
| 42        | 36.7  | 42.1  | 63.1# |
| 101       | 6.5   | 7.2   | 10.8# |
| 130       | 9.8   | 14.2  | 21.2# |



#20  
3+4-Methylphenols  
Concen: 3.23 ng  
RT: 8.87 min Scan# 1027  
Delta R.T. 0.04 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 107   | Resp: | 11351 |
| Ion Ratio | Lower | Upper |       |
| 107       | 100   |       |       |
| 108       | 76.9  | 72.5  | 112.5 |
| 77        | 136.3 | 30.1  | 70.1# |
| 79        | 35.1  | 24.2  | 64.2  |

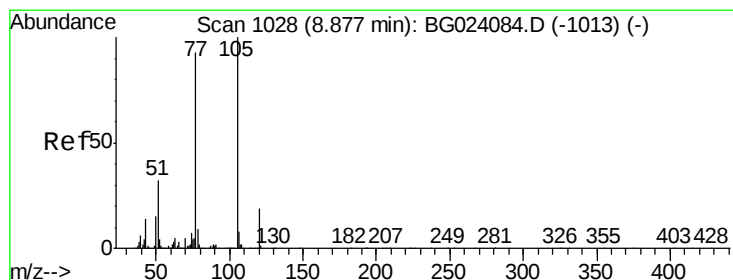
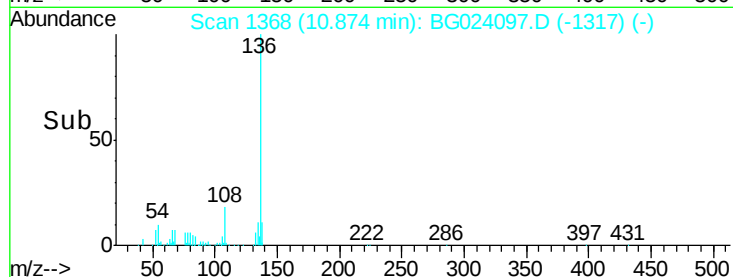
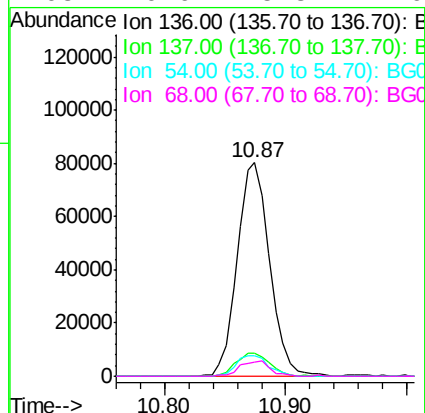
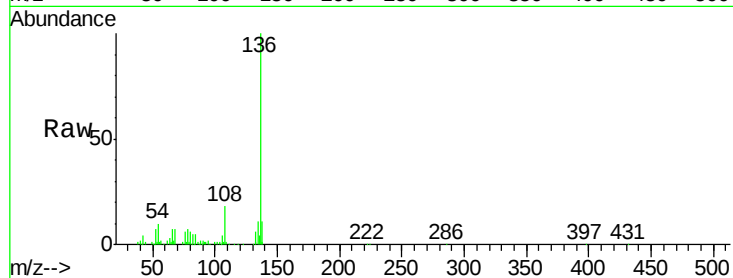




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.87 min Scan# 1368  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

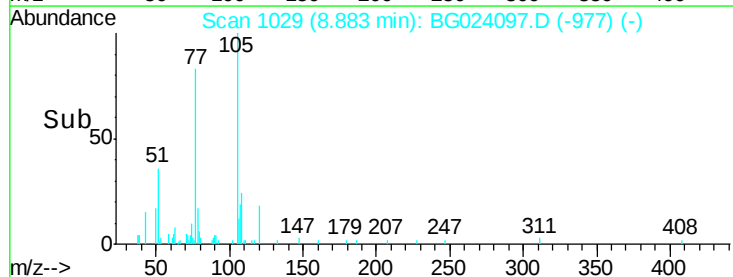
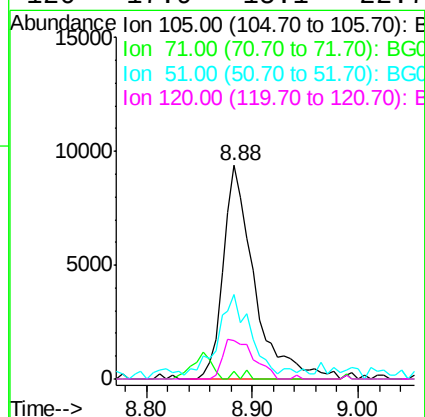
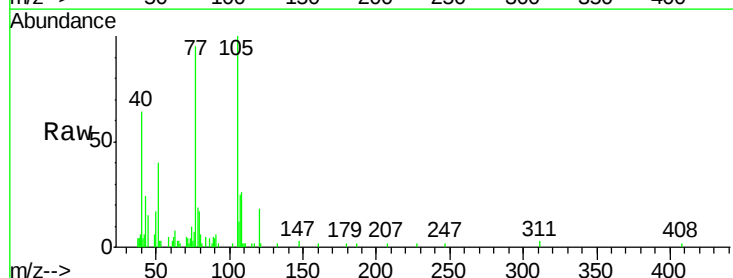
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

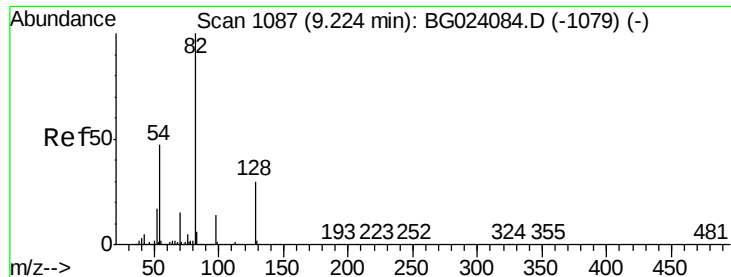
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 149918 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.6   | 14.4   |
| 54       | 9.7   | 7.3   | 10.9   |
| 68       | 6.6   | 5.3   | 7.9    |



#22  
Acetophenone  
Concen: 4.44 ng  
RT: 8.88 min Scan# 1029  
Delta R.T. 0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 19182 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 3.6   | 2.6   | 3.8   |
| 51       | 39.7  | 27.1  | 40.7  |
| 120      | 17.9  | 15.1  | 22.7  |





#23

Nitrobenzene-d5

Concen: 89.93 ng

RT: 9.22 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

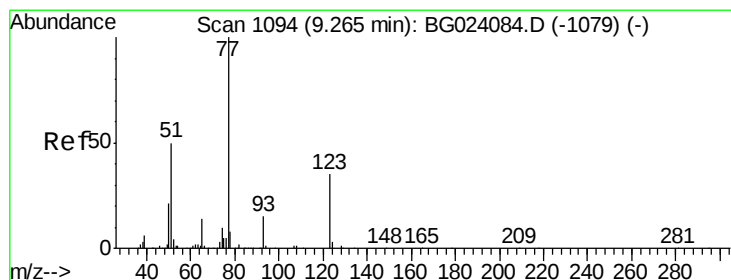
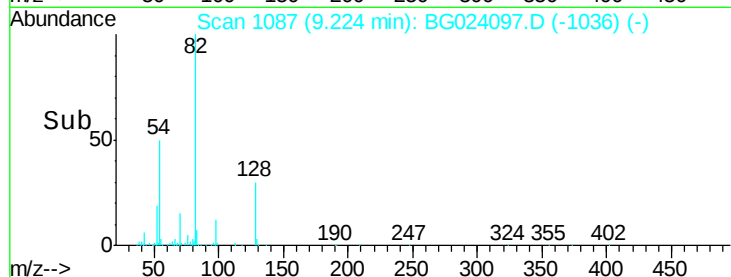
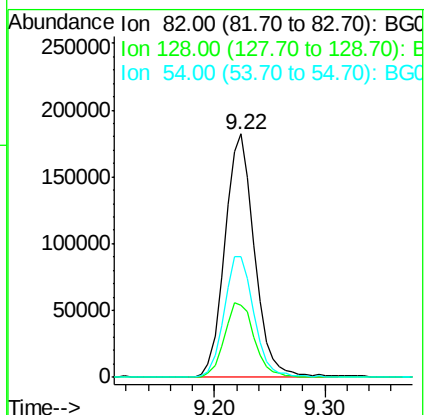
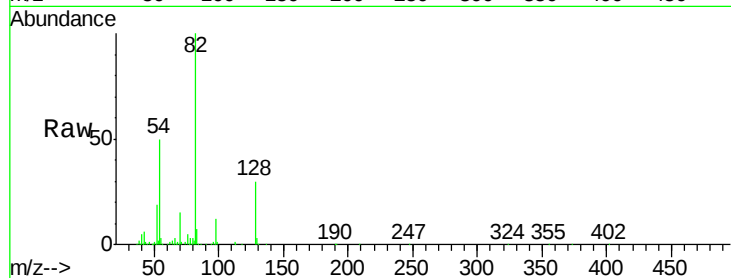
Tgt Ion: 82 Resp: 342078

Ion Ratio Lower Upper

82 100

128 29.5 24.4 36.6

54 49.7 41.4 62.0



#24

Nitrobenzene

Concen: 3.86 ng

RT: 9.26 min Scan# 1094

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

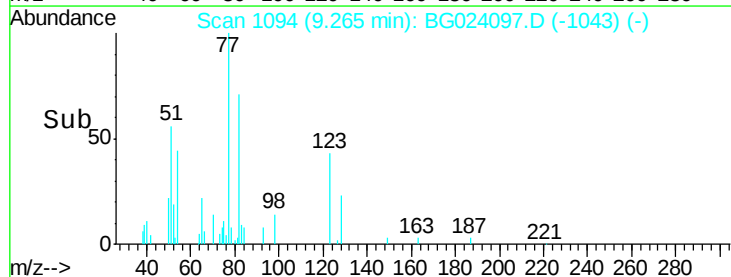
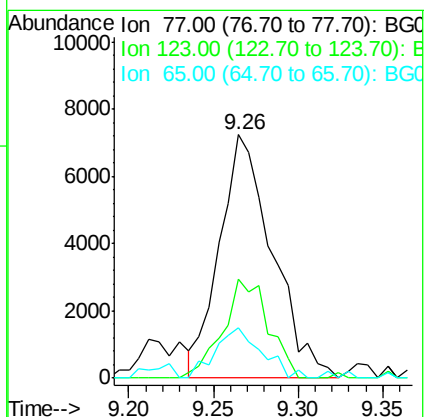
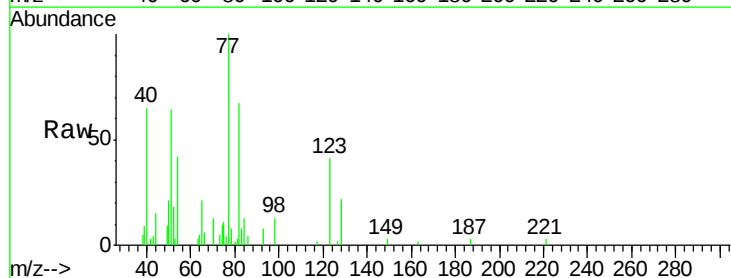
Tgt Ion: 77 Resp: 15731

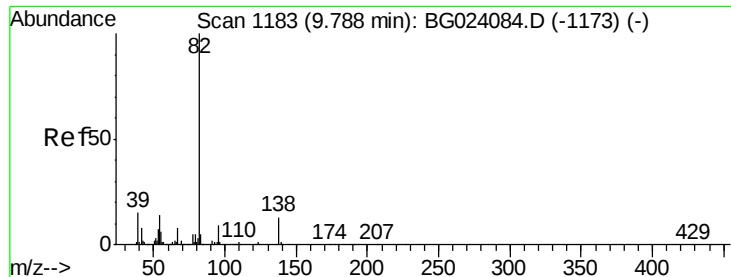
Ion Ratio Lower Upper

77 100

123 40.7 25.0 37.6#

65 20.5 13.4 20.0#





#25

Isophorone

Concen: 3.74 ng

RT: 9.79 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

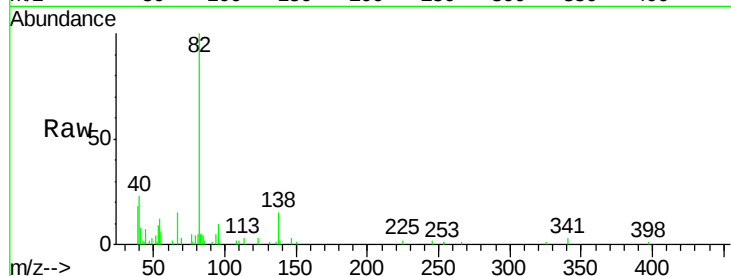
Tgt Ion: 82 Resp: 28998

Ion Ratio Lower Upper

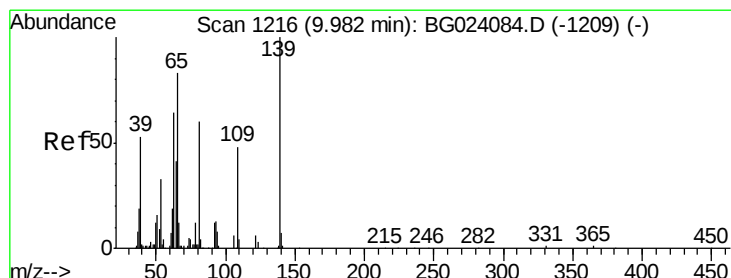
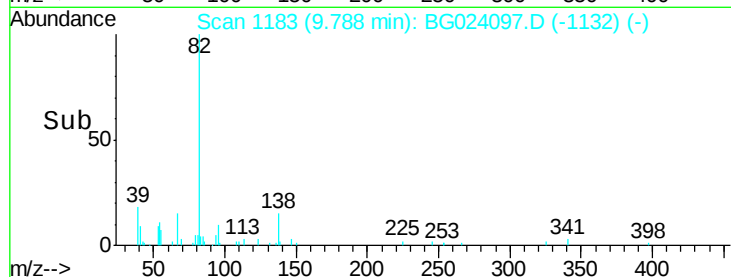
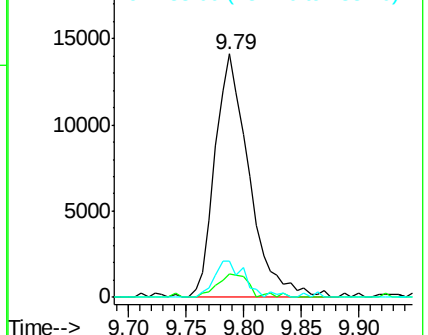
82 100

95 9.9 8.2 12.2

138 15.1 10.7 16.1



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



#26

2-Nitrophenol

Concen: 4.19 ng

RT: 10.00 min Scan# 1220

Delta R.T. 0.02 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

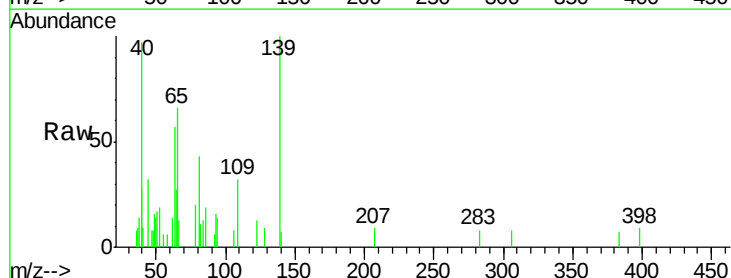
Tgt Ion: 139 Resp: 6066

Ion Ratio Lower Upper

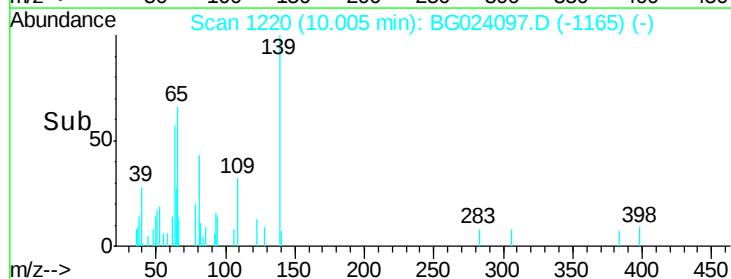
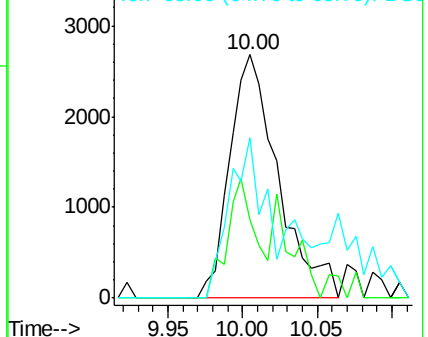
139 100

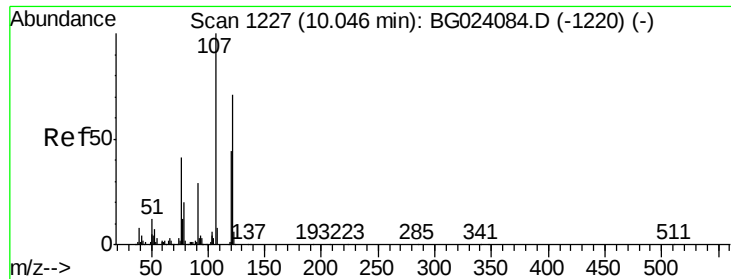
109 32.5 43.5 65.3#

65 65.8 64.3 96.5



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

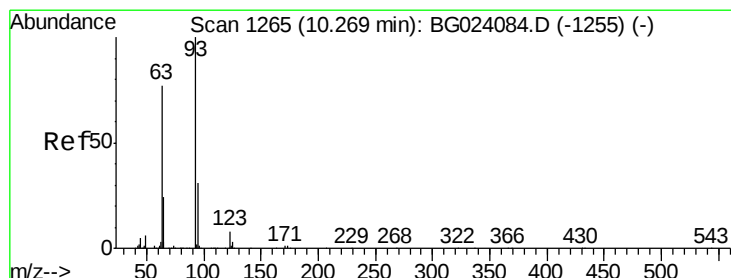
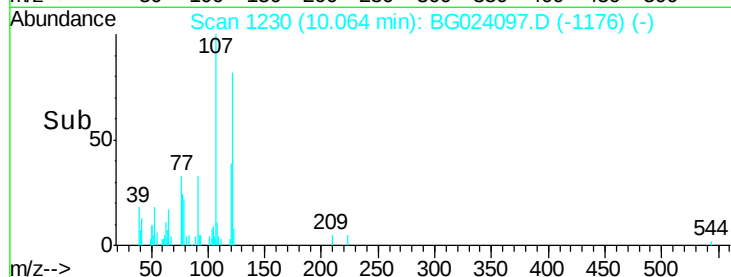
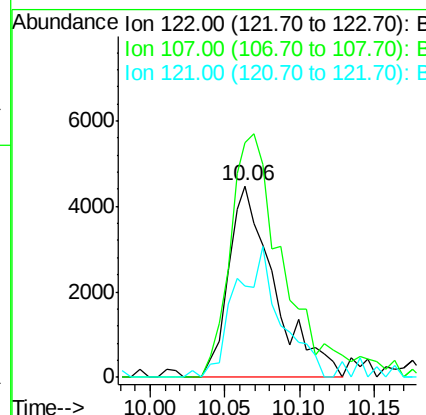
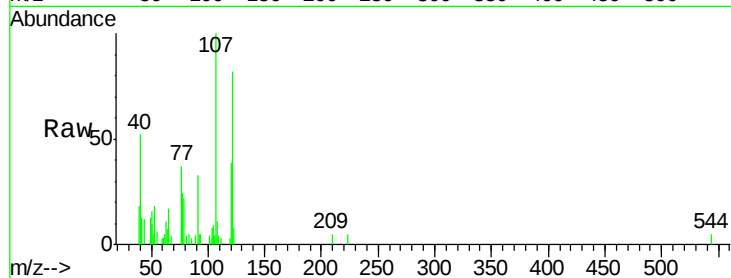




#27  
2,4-Dimethylphenol  
Concen: 3.97 ng  
RT: 10.06 min Scan# 1230  
Delta R.T. 0.02 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

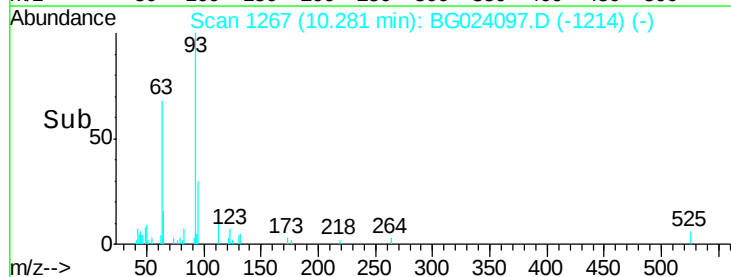
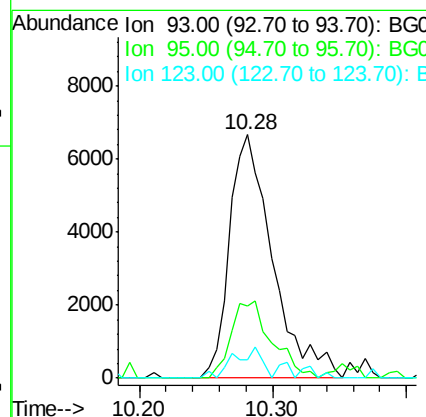
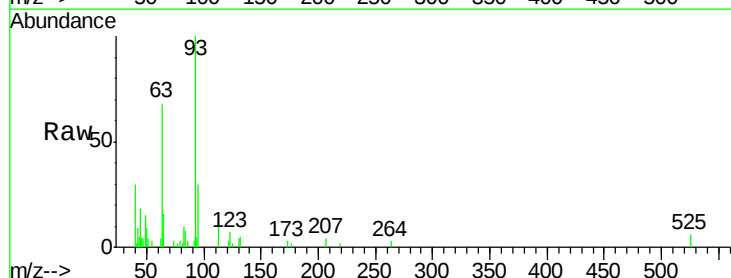
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

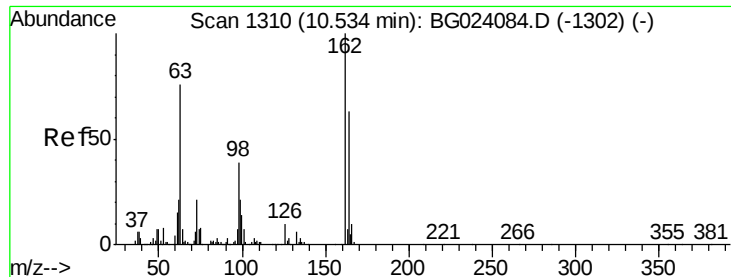
Tgt Ion:122 Resp: 9590  
Ion Ratio Lower Upper  
122 100  
107 122.6 117.0 175.4  
121 47.3 50.1 75.1#



#28  
bis(2-Chloroethoxy)methane  
Concen: 3.97 ng  
RT: 10.28 min Scan# 1267  
Delta R.T. 0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion: 93 Resp: 14961  
Ion Ratio Lower Upper  
93 100  
95 29.7 25.4 38.2  
123 7.3 8.2 12.2#

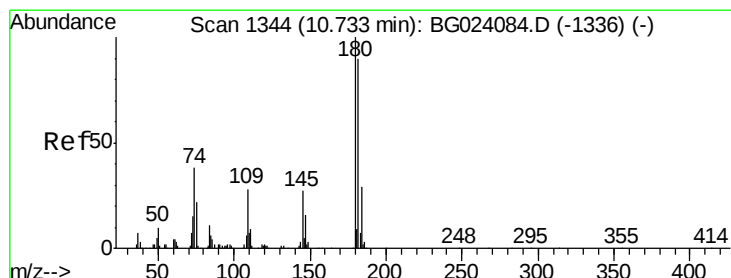
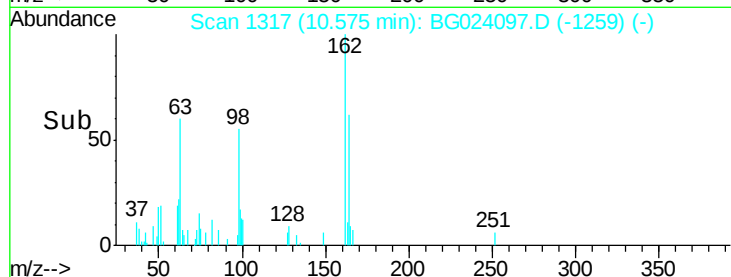
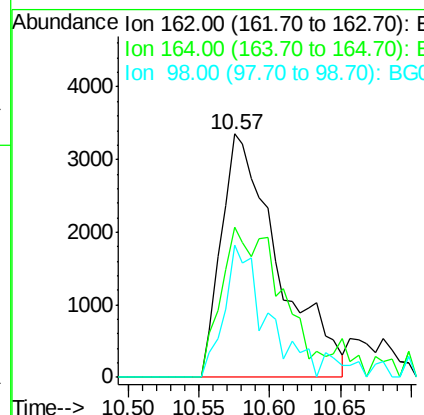
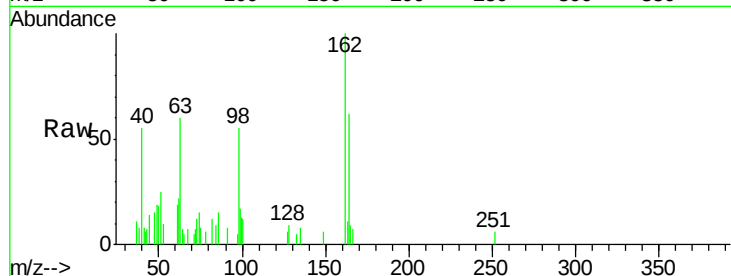




#29  
 2,4-Dichlorophenol  
 Concen: 3.75 ng  
 RT: 10.57 min Scan# 1317  
 Delta R.T. 0.04 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

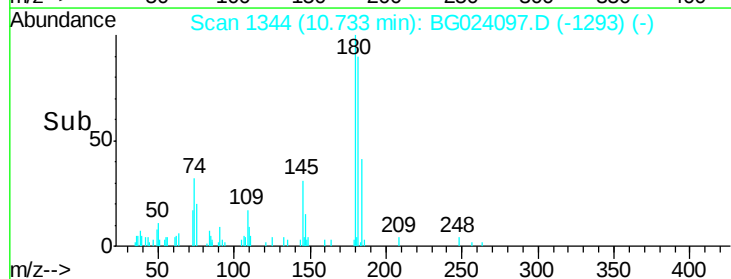
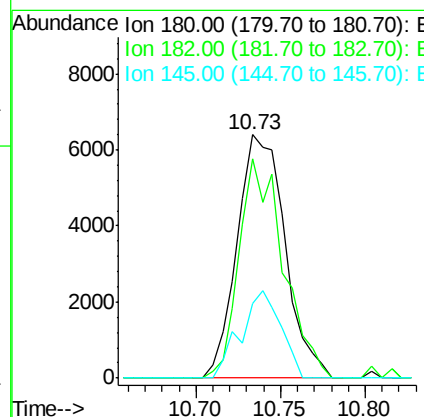
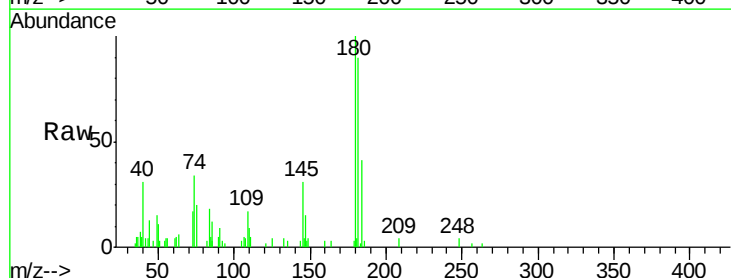
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

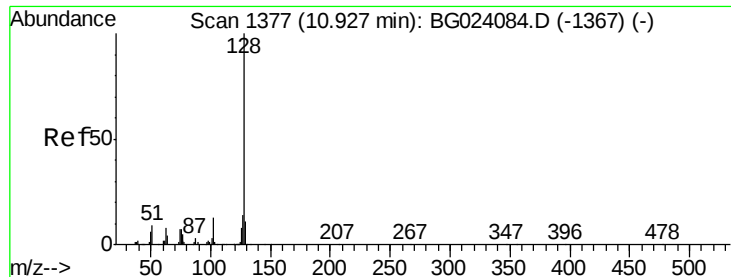
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 61.5  | 44.3  | 84.3  |
| 98      | 54.5  | 19.5  | 59.5  |



#30  
 1,2,4-Trichlorobenzene  
 Concen: 4.68 ng  
 RT: 10.73 min Scan# 1344  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 90.2  | 73.8  | 110.8 |
| 145     | 30.9  | 24.4  | 36.6  |

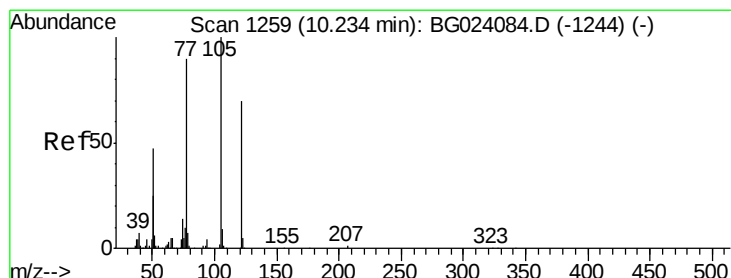
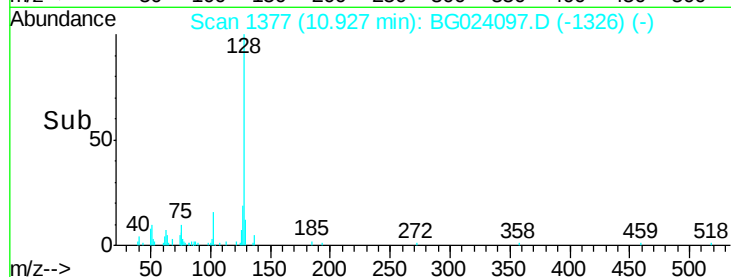
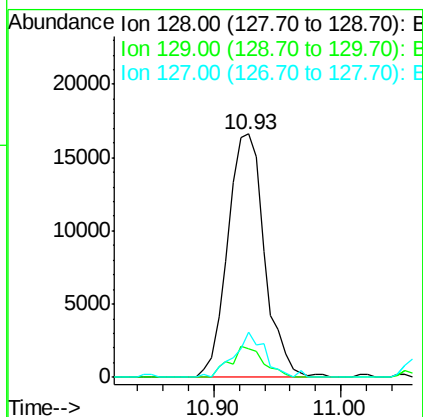
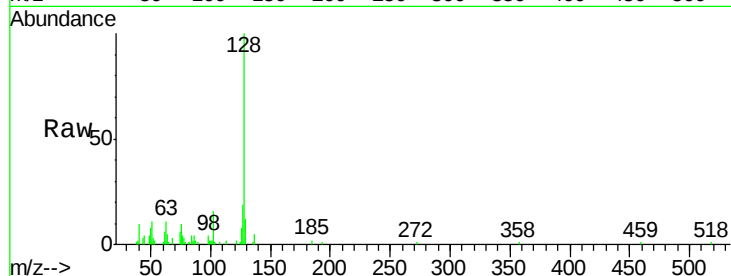




#31  
Naphthalene  
Concen: 4.38 ng  
RT: 10.93 min Scan# 1377  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

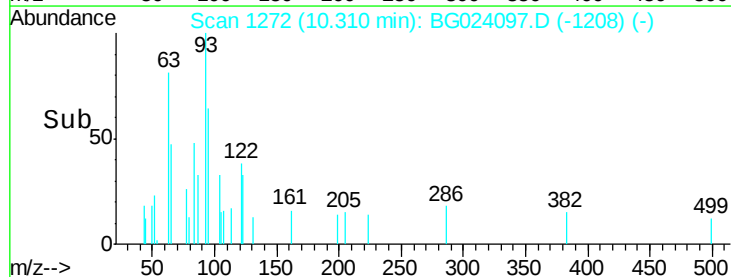
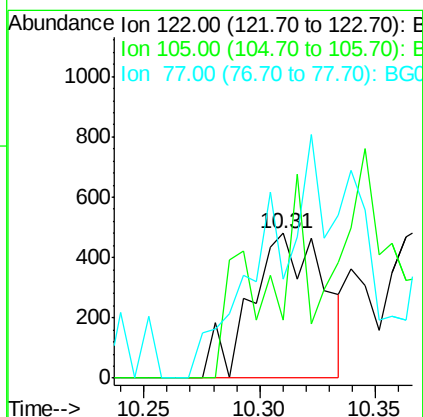
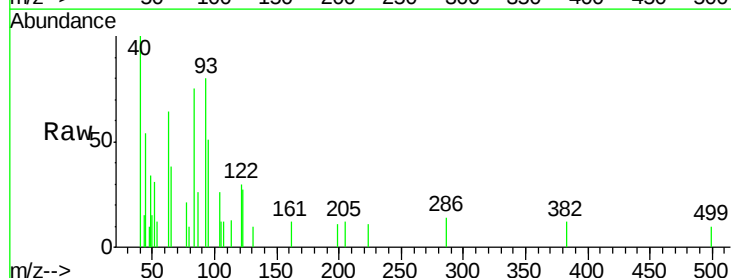
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

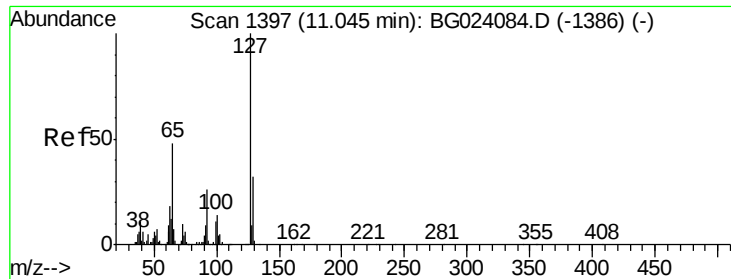
Tgt Ion:128 Resp: 33274  
Ion Ratio Lower Upper  
128 100  
129 11.8 9.4 14.0  
127 18.8 11.3 16.9#



#32  
Benzoic acid  
Concen: 2.76 ng  
RT: 10.31 min Scan# 1272  
Delta R.T. 0.08 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion:122 Resp: 1045  
Ion Ratio Lower Upper  
122 100  
105 40.4 117.2 157.2#  
77 68.3 109.2 149.2#

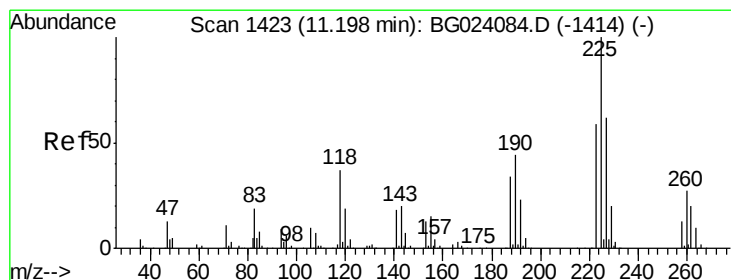
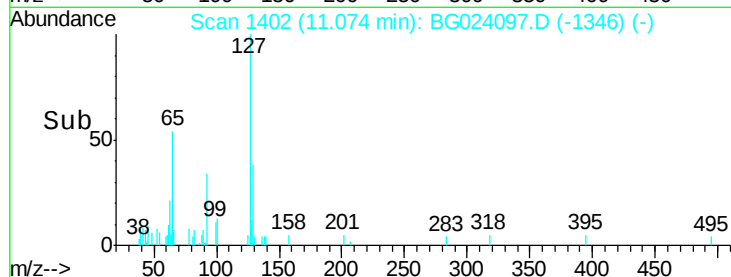
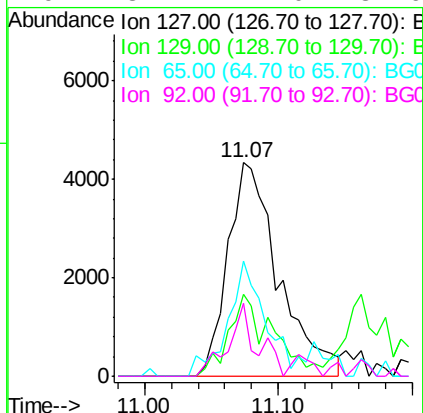
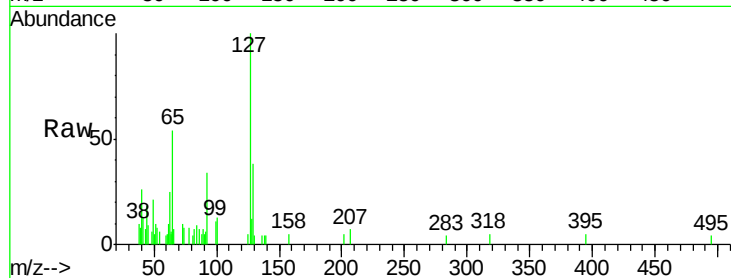




#33  
4-Chloroaniline  
Concen: 3.39 ng  
RT: 11.07 min Scan# 1402  
Delta R.T. 0.03 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

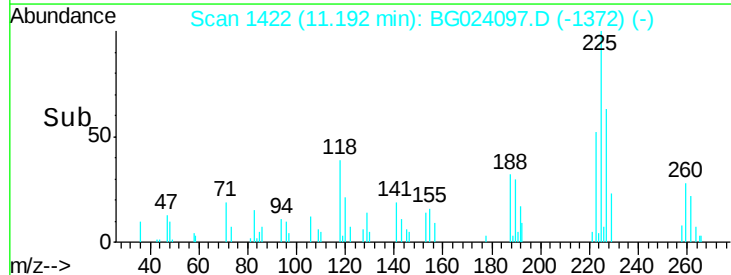
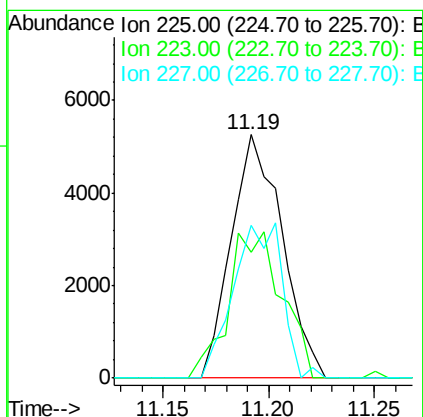
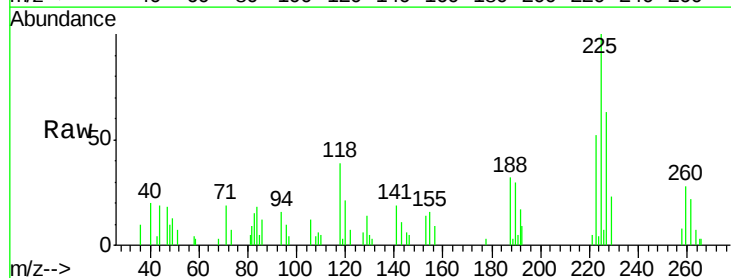
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

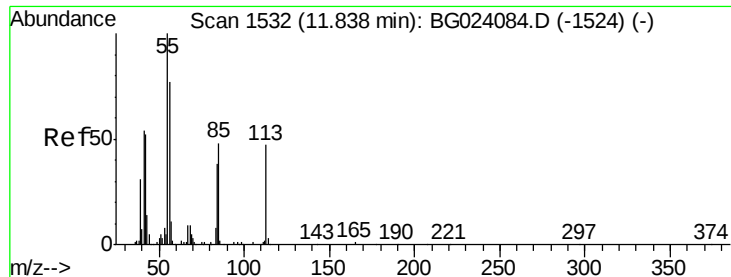
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 11490 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 38.2  | 27.9  | 41.9  |
| 65       | 53.9  | 36.8  | 55.2  |
| 92       | 34.4  | 21.0  | 31.6  |



#34  
Hexachlorobutadiene  
Concen: 4.13 ng  
RT: 11.19 min Scan# 1422  
Delta R.T. -0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 8766  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 51.6  | 49.6  | 74.4  |
| 227      | 62.8  | 54.5  | 81.7  |





#35

Caprolactam

Concen: 3.23 ng

RT: 11.85 min Scan# 1534

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

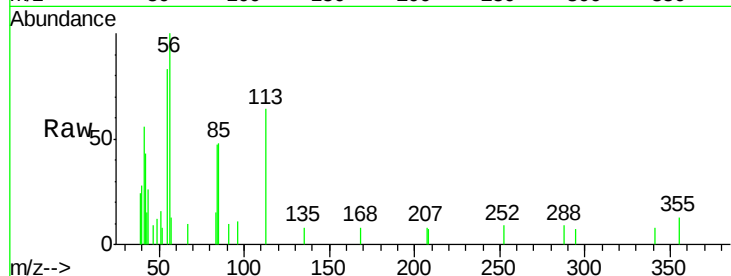
Tgt Ion:113 Resp: 3302

Ion Ratio Lower Upper

113 100

55 130.2 154.5 194.5#

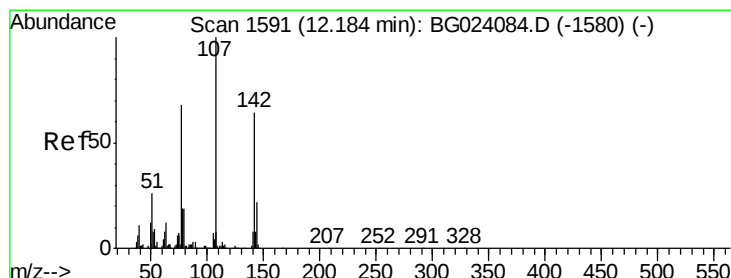
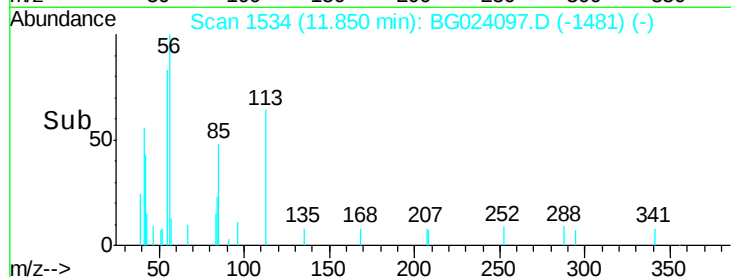
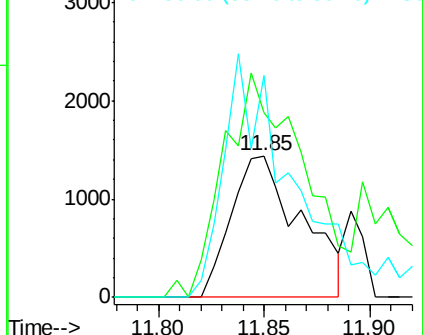
56 156.8 125.1 165.1



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC



#36

4-Chloro-3-methylphenol

Concen: 3.90 ng

RT: 12.21 min Scan# 1596

Delta R.T. 0.03 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

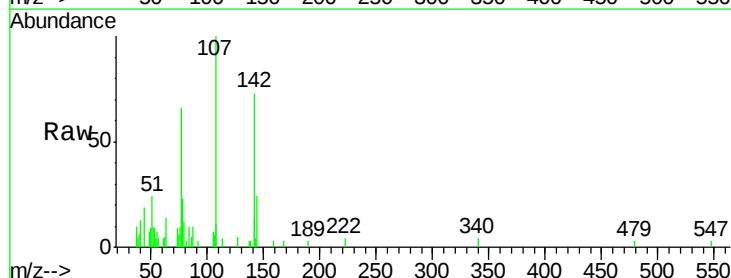
Tgt Ion:107 Resp: 13819

Ion Ratio Lower Upper

107 100

144 23.7 17.0 25.6

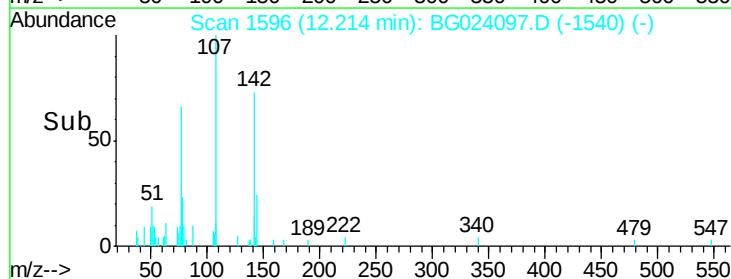
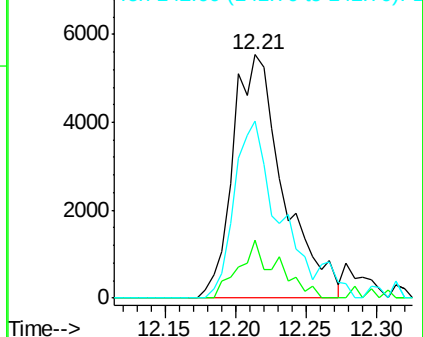
142 72.7 53.0 79.6

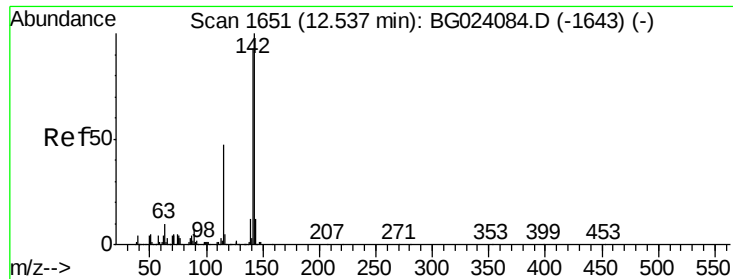


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

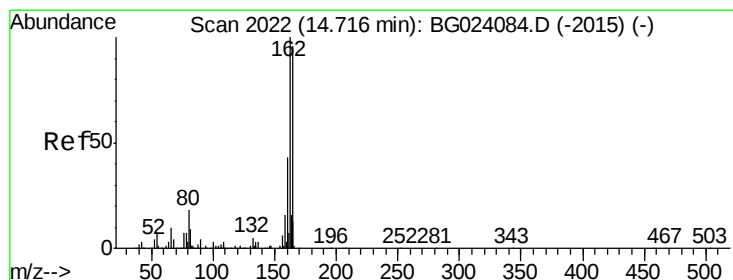
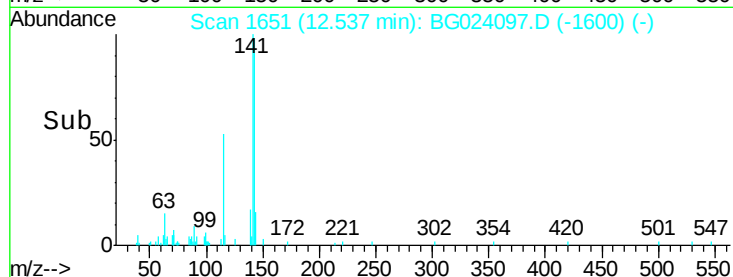
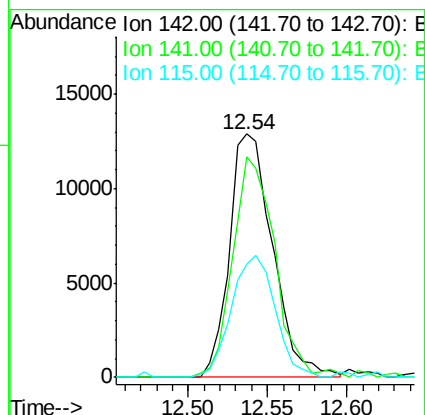
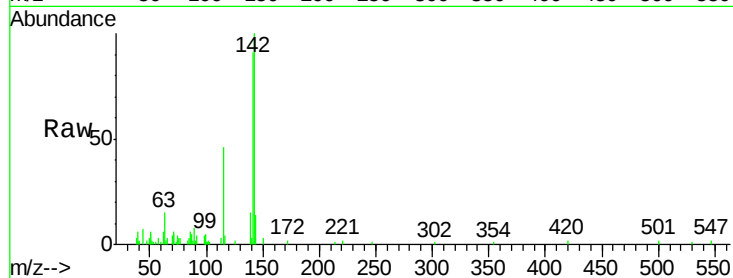




#37  
 2-Methylnaphthalene  
 Concen: 4.18 ng  
 RT: 12.54 min Scan# 1651  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

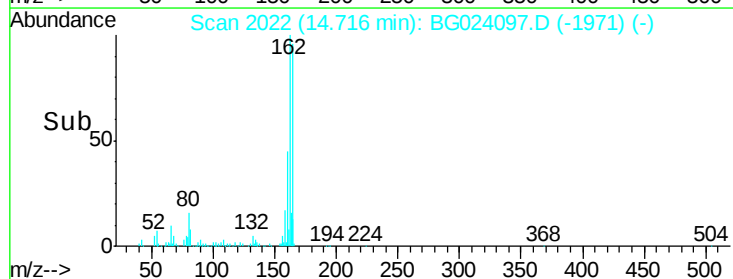
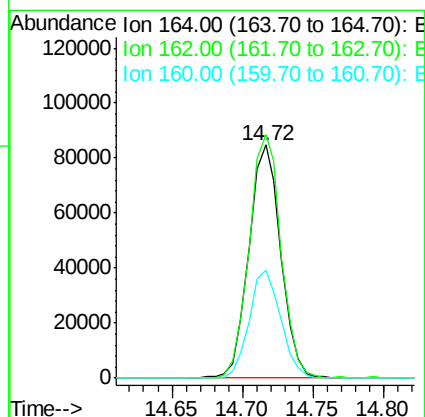
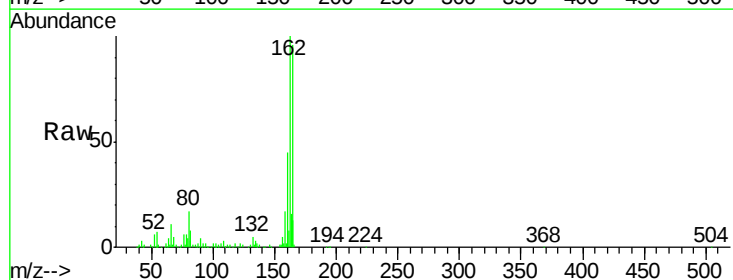
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

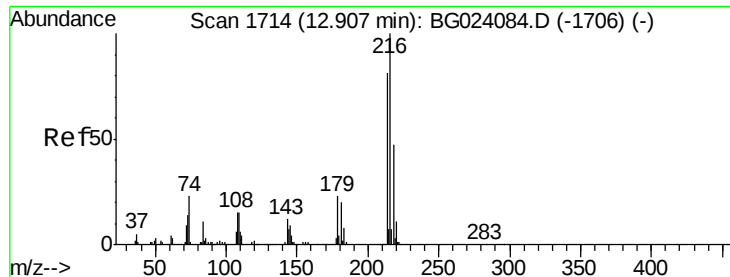
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.7  | 70.2  | 105.2 |
| 115     | 46.5  | 41.7  | 62.5  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.72 min Scan# 2022  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.4 | 87.7  | 131.5 |
| 160     | 46.5  | 37.2  | 55.8  |

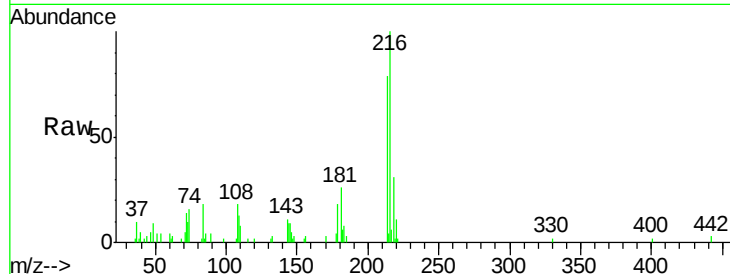




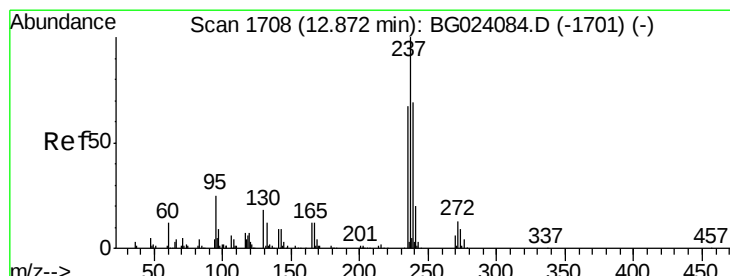
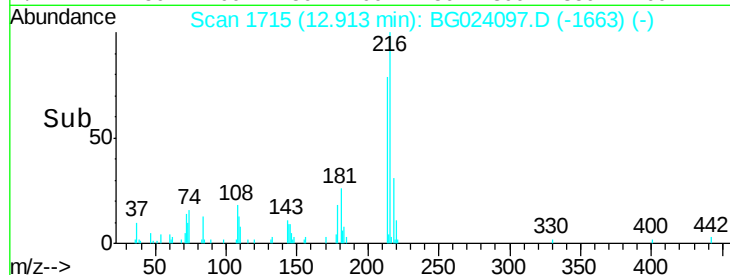
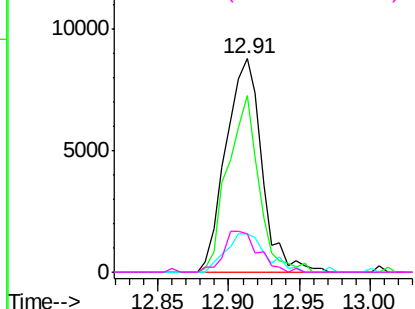
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 3.96 ng  
 RT: 12.91 min Scan# 1715  
 Delta R.T. 0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 216   | Resp: | 15527 |
| Ion      | Ratio | Lower | Upper |
| 216      | 100   |       |       |
| 214      | 72.1  | 62.9  | 94.3  |
| 179      | 20.4  | 17.2  | 25.8  |
| 108      | 18.6  | 16.3  | 24.5  |

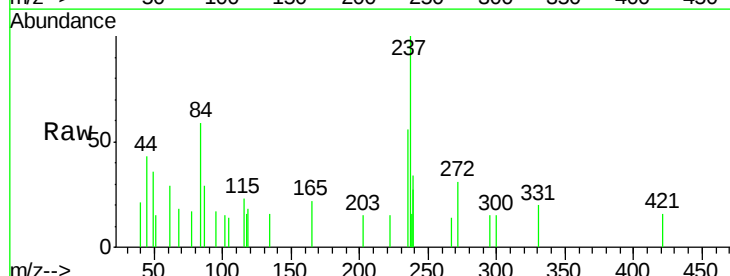


Abundance Ion 216.00 (215.70 to 216.70): E  
 Ion 214.00 (213.70 to 214.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 108.00 (107.70 to 108.70): E

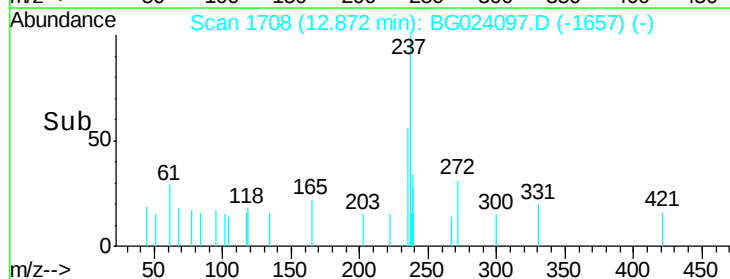
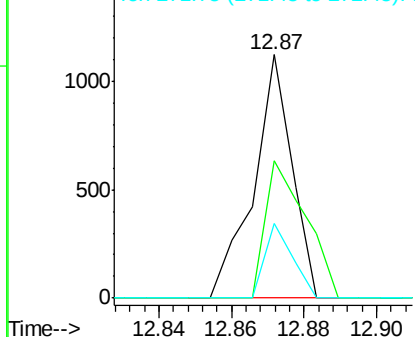


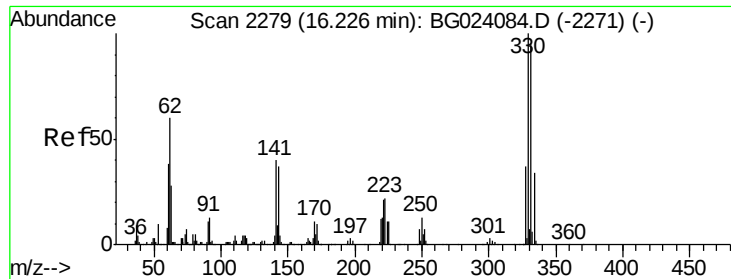
#40  
 Hexachlorocyclopentadiene  
 Concen: 4.16 ng  
 RT: 12.87 min Scan# 1708  
 Delta R.T. 0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 237   | Resp: | 818   |
| Ion      | Ratio | Lower | Upper |
| 237      | 100   |       |       |
| 235      | 56.4  | 43.1  | 83.1  |
| 272      | 30.8  | 0.0   | 30.9  |



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

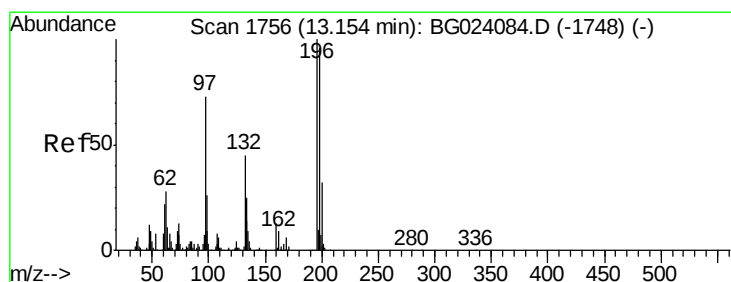
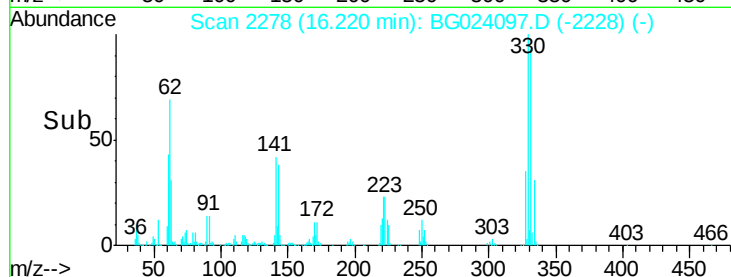
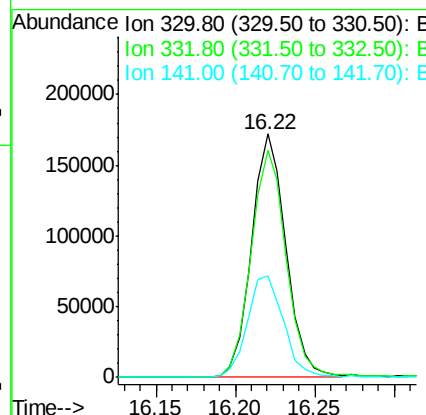
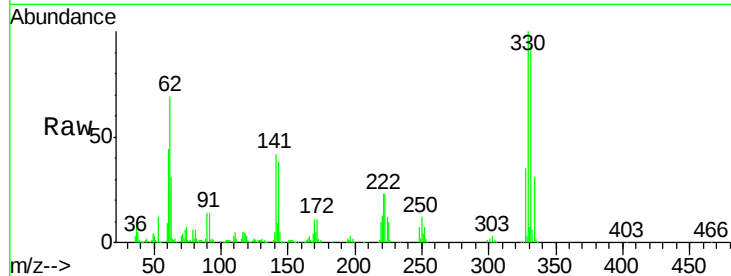




#41  
 2,4,6-Tribromophenol  
 Concen: 134.27 ng  
 RT: 16.22 min Scan# 2278  
 Delta R.T. -0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

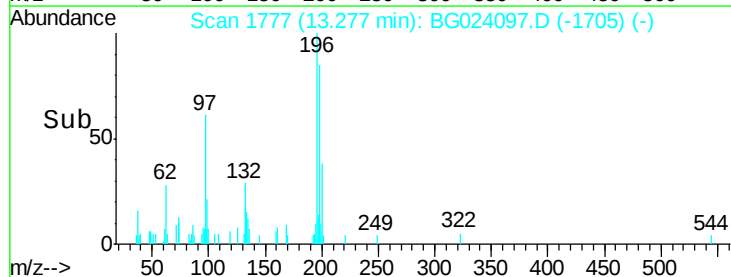
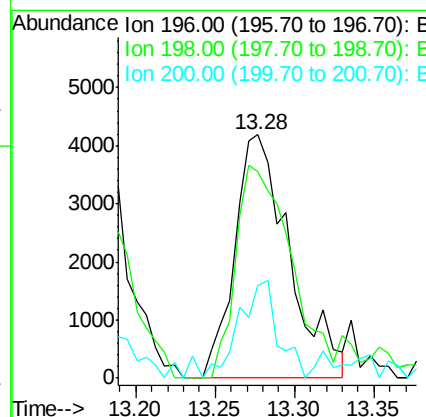
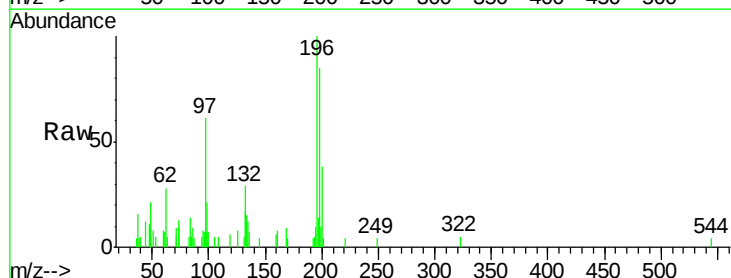
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

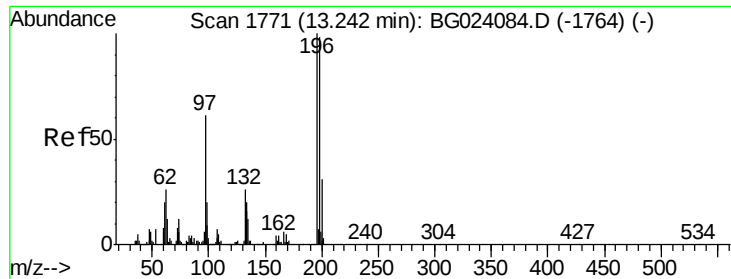
Tgt Ion:330 Resp: 259084  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 77.4 116.2  
 141 44.3 31.7 47.5



#42  
 2,4,6-Trichlorophenol  
 Concen: 3.96 ng  
 RT: 13.28 min Scan# 1777  
 Delta R.T. 0.12 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Tgt Ion:196 Resp: 10036  
 Ion Ratio Lower Upper  
 196 100  
 198 84.8 78.2 117.2  
 200 38.3 27.0 40.4

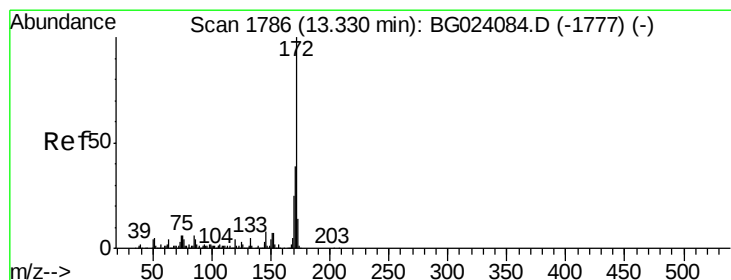
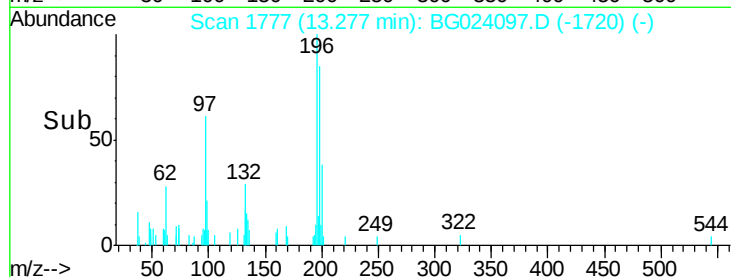
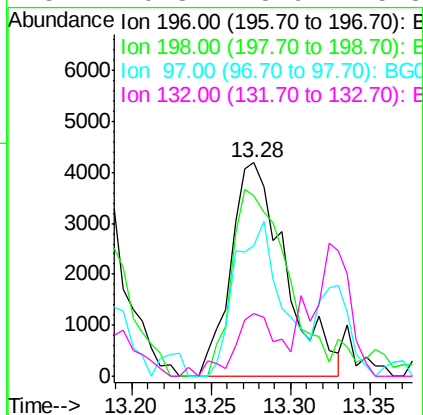
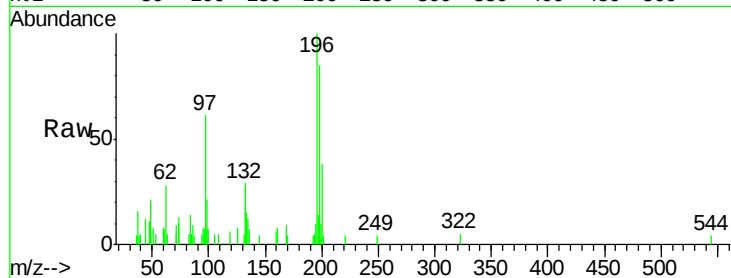




#43  
 2,4,5-Trichlorophenol  
 Concen: 3.85 ng  
 RT: 13.28 min Scan# 1777  
 Delta R.T. 0.04 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

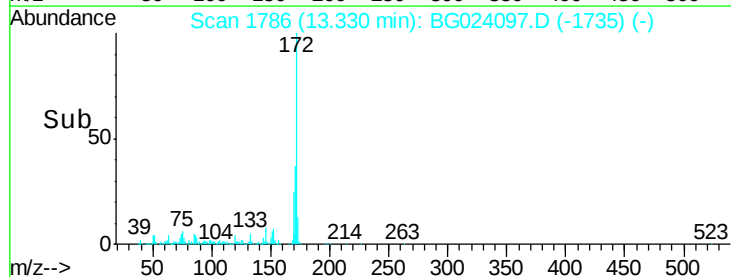
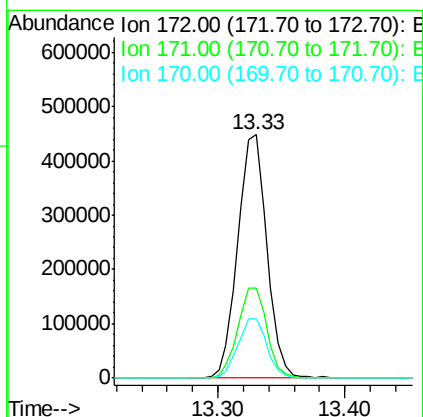
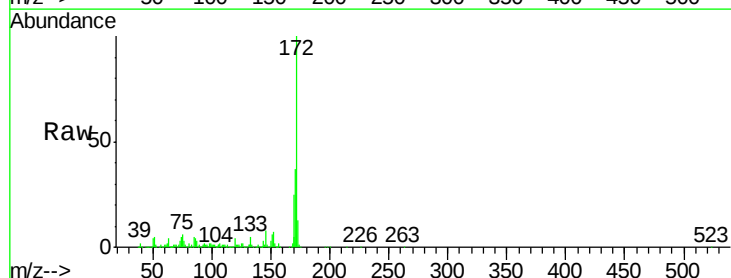
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

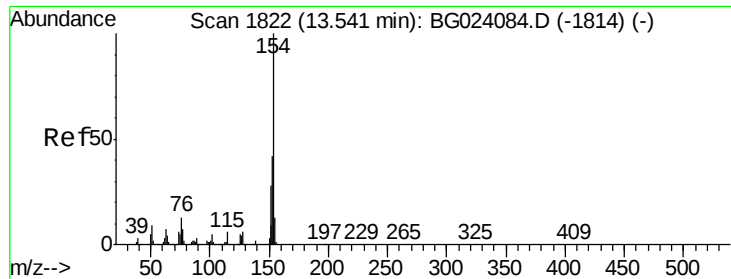
Tgt Ion:196 Resp: 10036  
 Ion Ratio Lower Upper  
 196 100  
 198 84.8 85.7 128.5#  
 97 61.4 45.5 68.3  
 132 29.3 18.9 28.3#



#44  
 2-Fluorobiphenyl  
 Concen: 89.30 ng  
 RT: 13.33 min Scan# 1786  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Tgt Ion:172 Resp: 713129  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 31.6 47.4  
 170 24.6 21.3 31.9

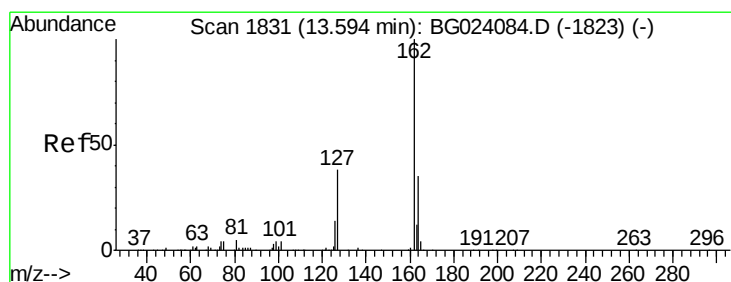
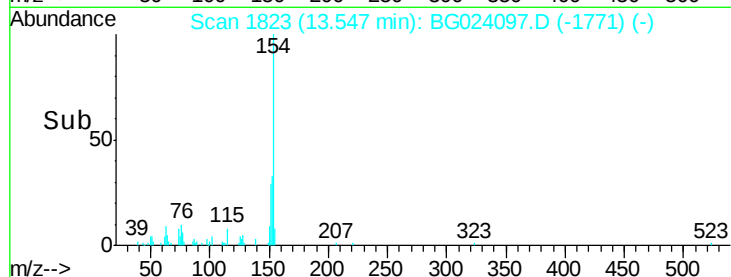
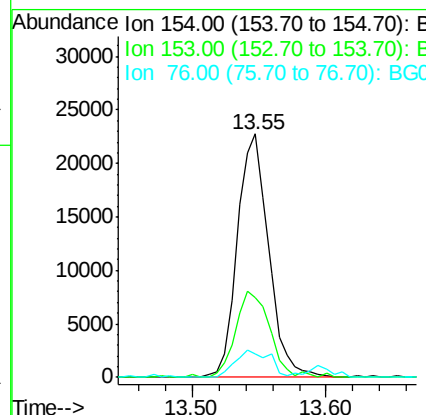
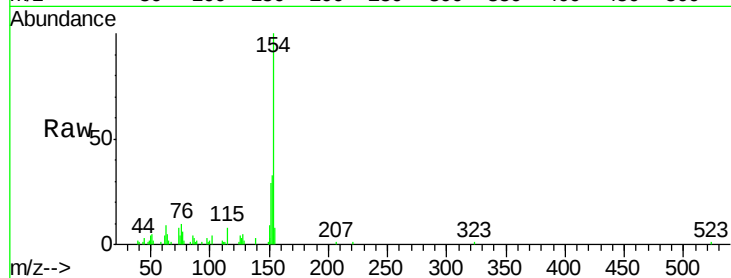




#45  
 1,1'-Biphenyl  
 Concen: 4.03 ng  
 RT: 13.55 min Scan# 1823  
 Delta R.T. 0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

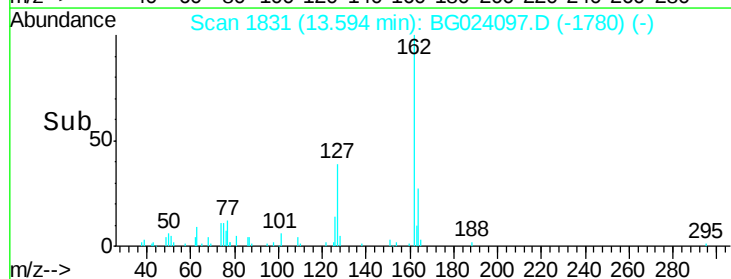
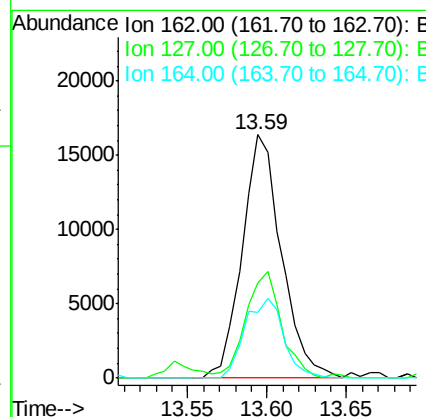
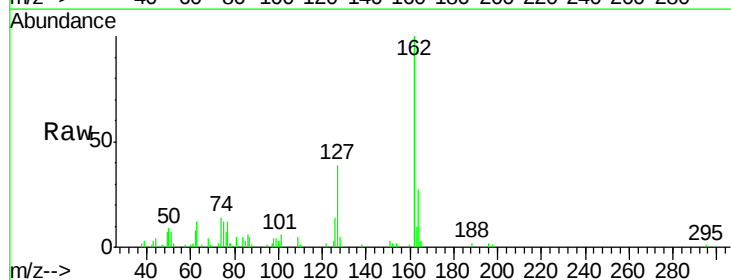
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

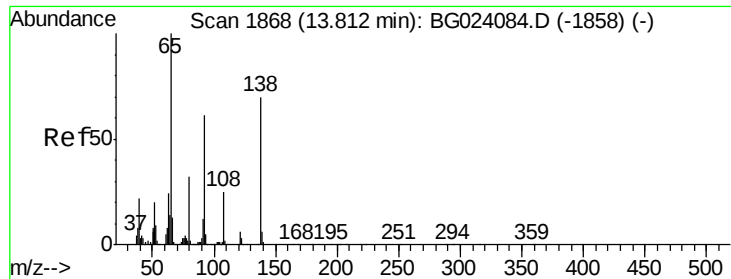
Tgt Ion:154 Resp: 37007  
 Ion Ratio Lower Upper  
 154 100  
 153 32.6 20.2 60.2  
 76 9.6 0.0 32.9



#46  
 2-Chloronaphthalene  
 Concen: 4.10 ng  
 RT: 13.59 min Scan# 1831  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Tgt Ion:162 Resp: 28130  
 Ion Ratio Lower Upper  
 162 100  
 127 39.0 32.4 48.6  
 164 26.9 25.2 37.8

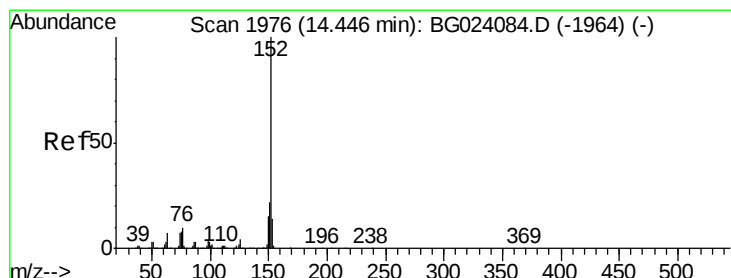
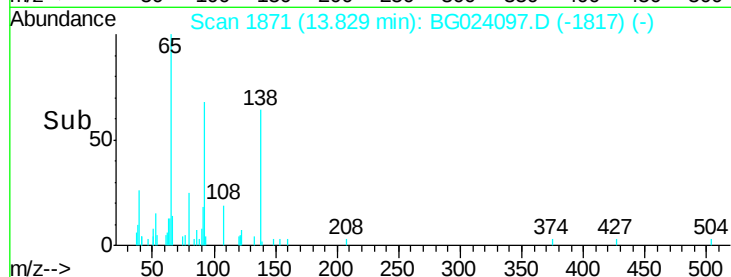
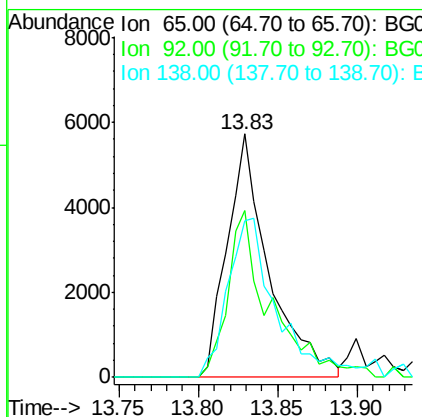
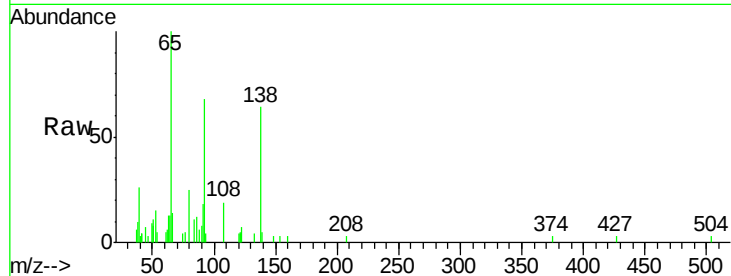




#47  
2-Nitroaniline  
Concen: 3.29 ng  
RT: 13.83 min Scan# 1871  
Delta R.T. 0.02 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

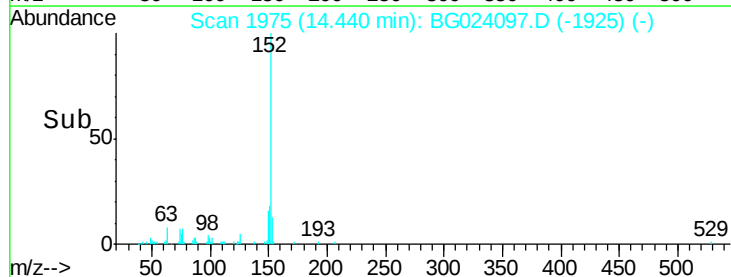
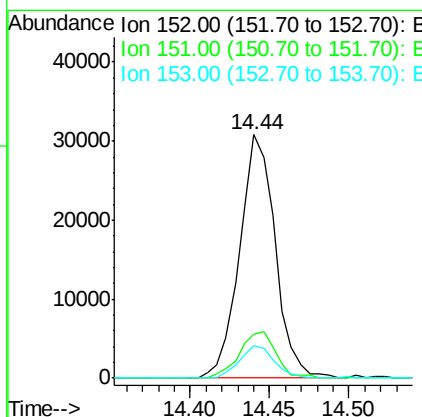
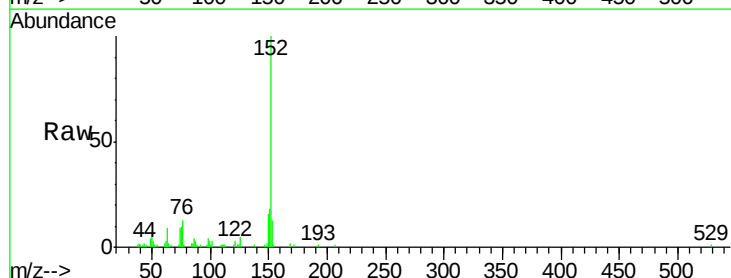
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

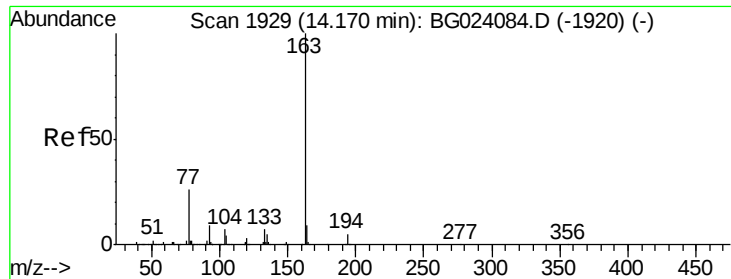
Tgt Ion: 65 Resp: 10493  
Ion Ratio Lower Upper  
65 100  
92 68.4 49.4 74.0  
138 64.5 58.0 87.0



#48  
Acenaphthylene  
Concen: 4.12 ng  
RT: 14.44 min Scan# 1975  
Delta R.T. -0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion: 152 Resp: 47973  
Ion Ratio Lower Upper  
152 100  
151 17.9 17.6 26.4  
153 13.2 11.4 17.2





#49

Dimethylphthalate

Concen: 4.33 ng

RT: 14.17 min Scan# 1929

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

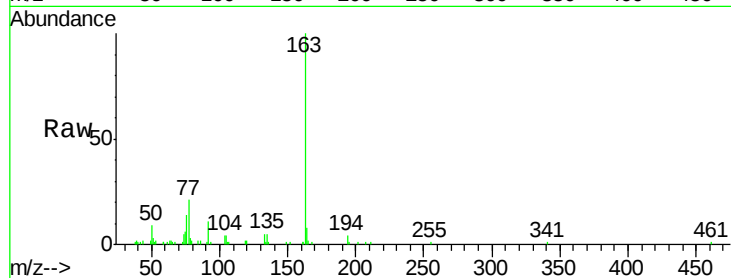
Tgt Ion:163 Resp: 44580

Ion Ratio Lower Upper

163 100

194 3.5 3.6 5.4#

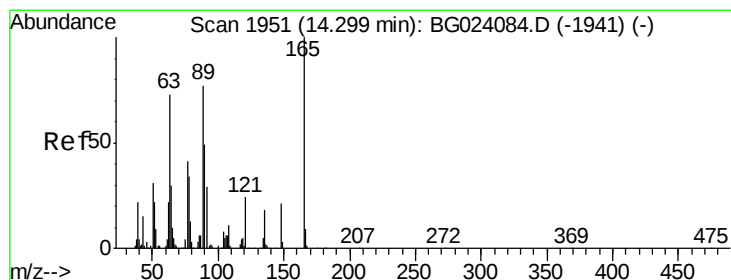
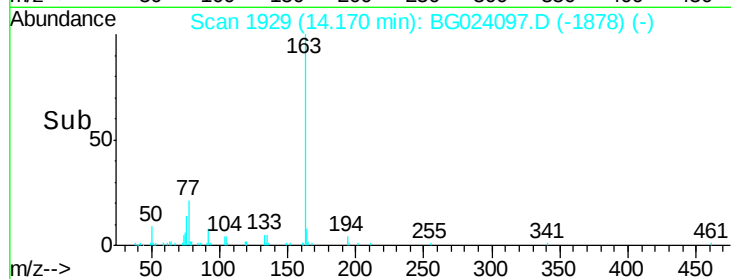
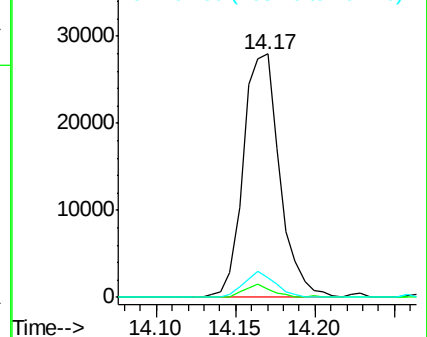
164 8.1 8.1 12.1#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 4.13 ng

RT: 14.31 min Scan# 1952

Delta R.T. 0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

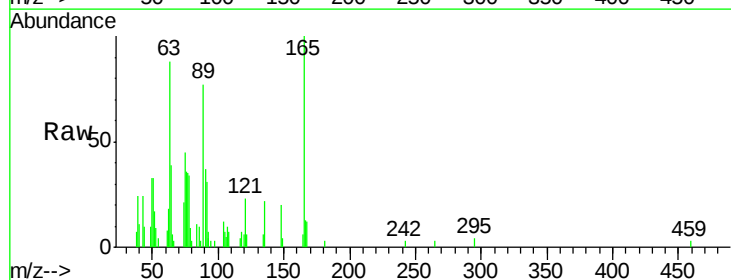
Tgt Ion:165 Resp: 8934

Ion Ratio Lower Upper

165 100

63 87.6 64.3 96.5

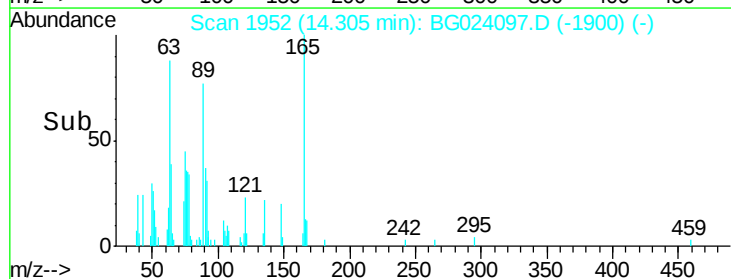
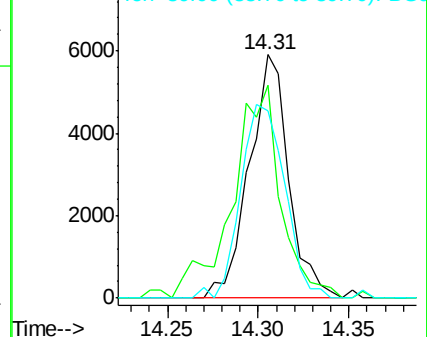
89 76.9 64.3 96.5

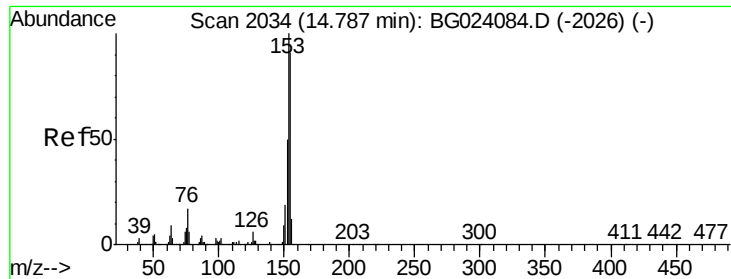


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG0

Ion 89.00 (88.70 to 89.70): BG0





#51

Acenaphthene

Concen: 4.29 ng

RT: 14.78 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

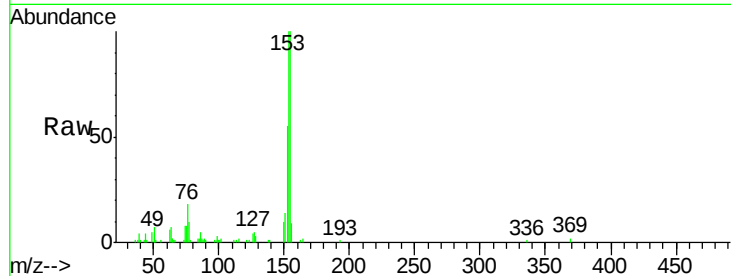
Tgt Ion:154 Resp: 30299

Ion Ratio Lower Upper

154 100

153 99.6 87.5 131.3

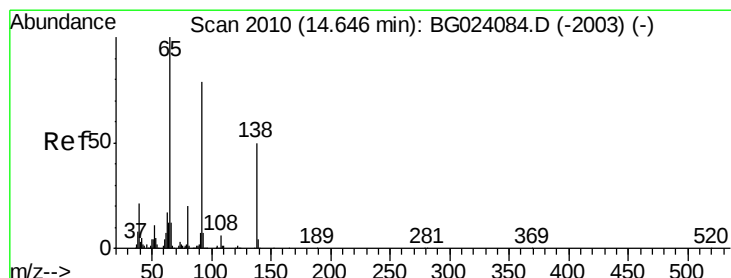
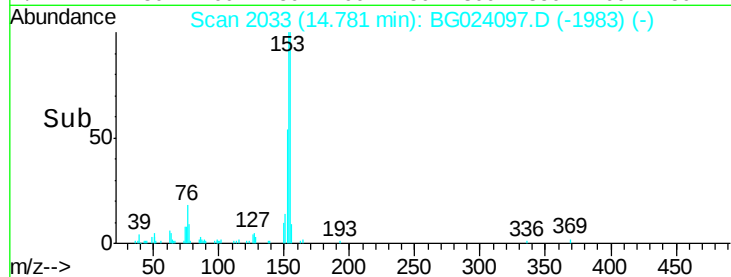
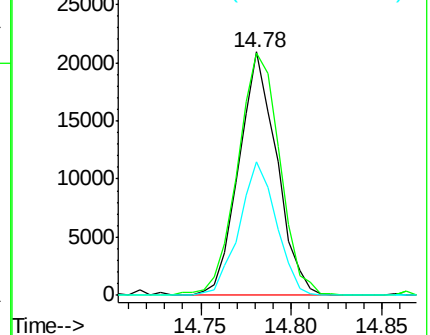
152 55.0 42.7 64.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 2.87 ng

RT: 14.66 min Scan# 2013

Delta R.T. 0.02 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

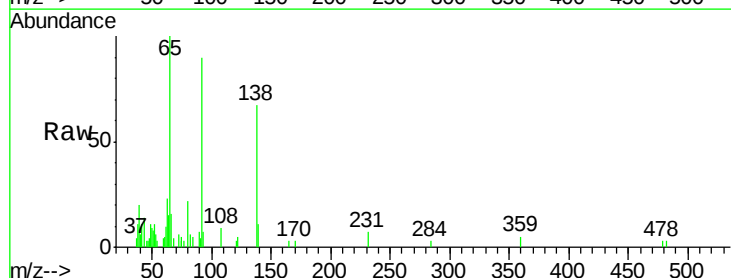
Tgt Ion:138 Resp: 6193

Ion Ratio Lower Upper

138 100

108 14.2 11.7 17.5

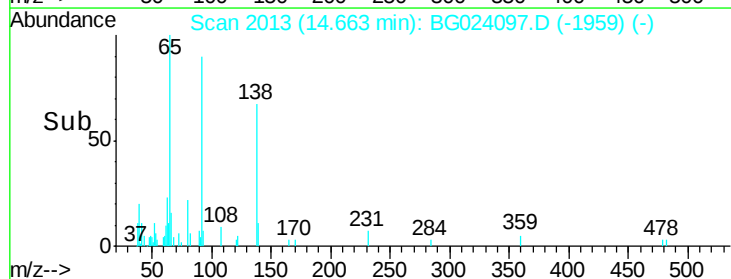
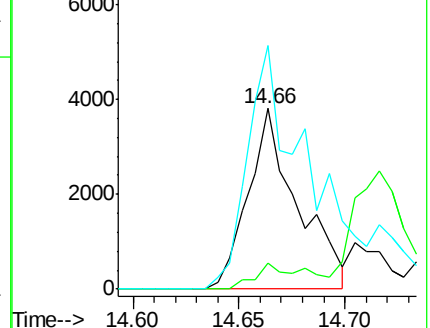
92 134.9 129.7 194.5

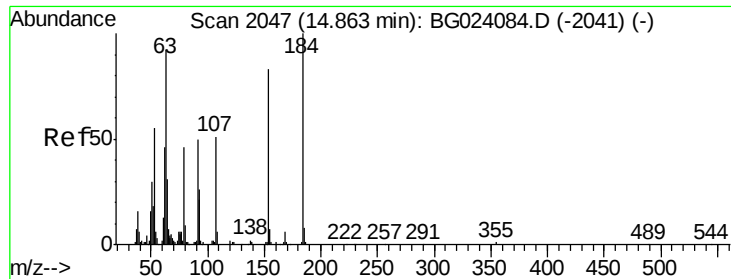


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC





#53

2,4-Dinitrophenol

Concen: 2.55 ng

RT: 14.93 min Scan# 2058

Delta R.T. 0.06 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

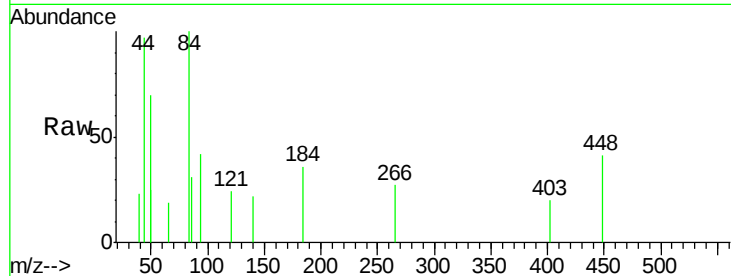
Tgt Ion:184 Resp: 110

Ion Ratio Lower Upper

184 100

63 0.0 59.6 89.4#

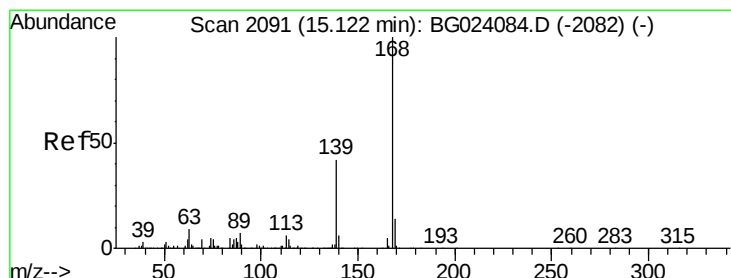
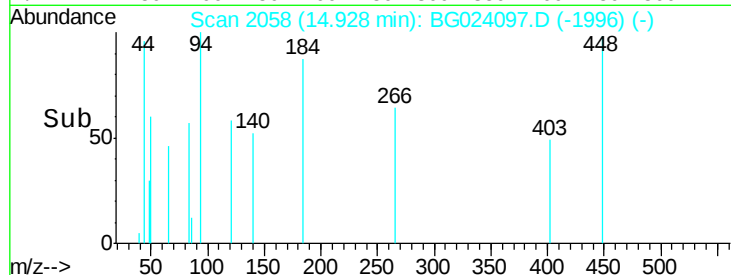
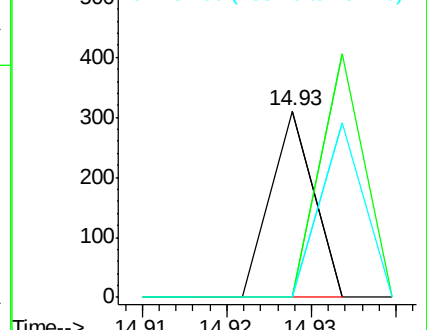
154 0.0 67.4 101.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BG024084.D (-2041) (-)

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 4.88 ng

RT: 15.12 min Scan# 2091

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

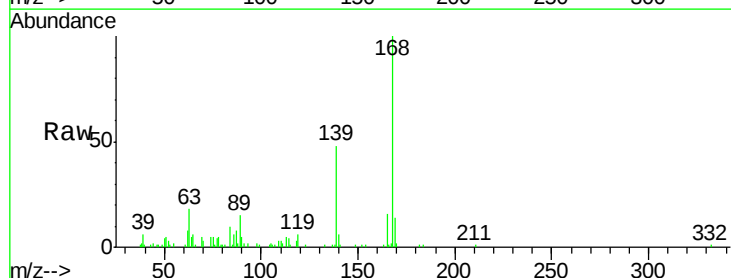
Tgt Ion:168 Resp: 53666

Ion Ratio Lower Upper

168 100

139 47.9 36.4 54.6

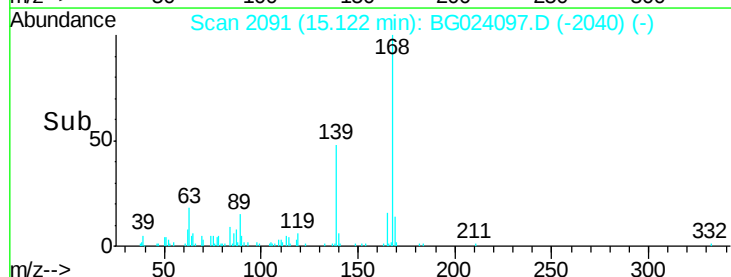
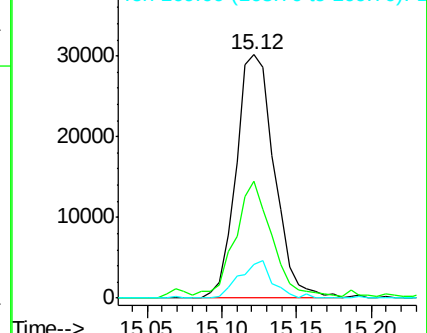
169 14.0 11.9 17.9

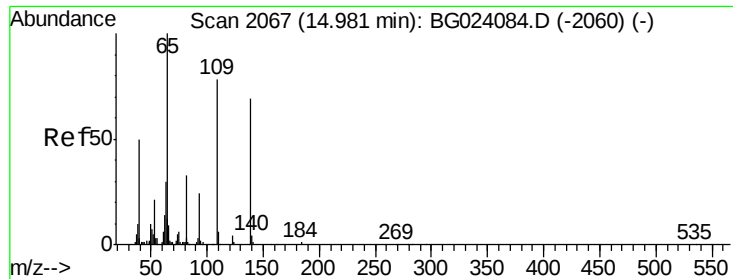


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

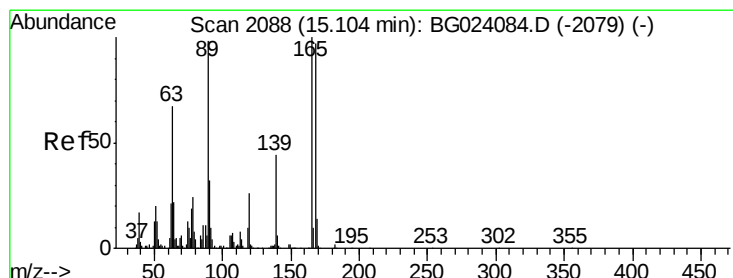
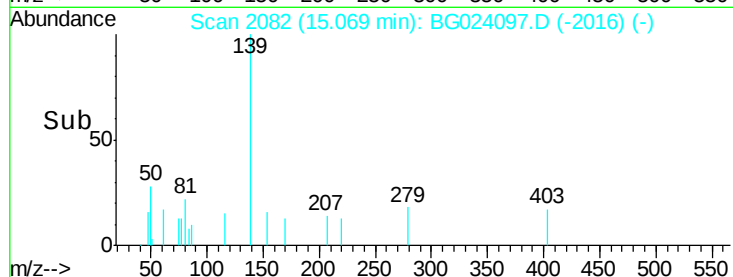
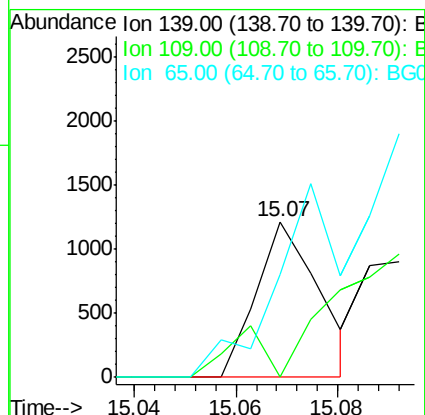
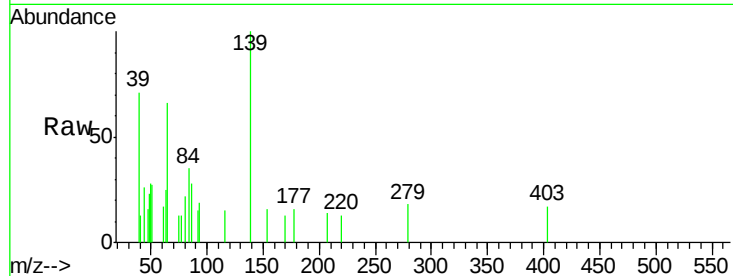




#55  
4-Nitrophenol  
Concen: 5.91 ng  
RT: 15.07 min Scan# 2082  
Delta R.T. 0.09 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

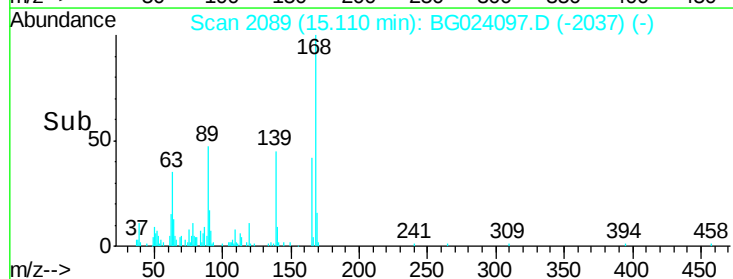
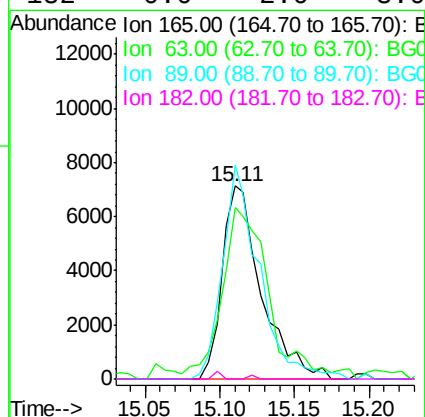
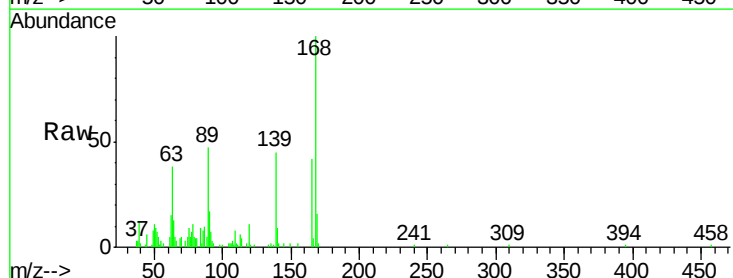
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

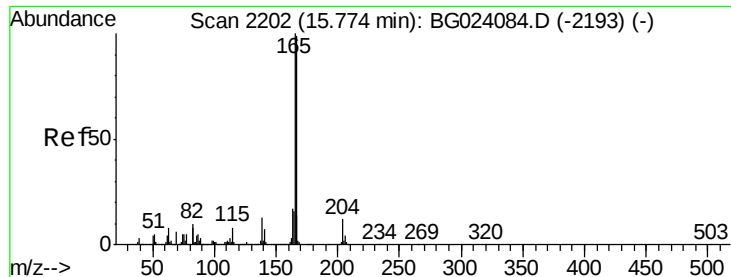
Tgt Ion:139 Resp: 1030  
Ion Ratio Lower Upper  
139 100  
109 0.0 103.0 143.0#  
65 65.9 112.7 152.7#



#56  
2,4-Dinitrotoluene  
Concen: 3.97 ng  
RT: 15.11 min Scan# 2089  
Delta R.T. 0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion:165 Resp: 13076  
Ion Ratio Lower Upper  
165 100  
63 89.1 45.8 68.6#  
89 110.7 68.6 102.8#  
182 0.0 2.0 3.0#

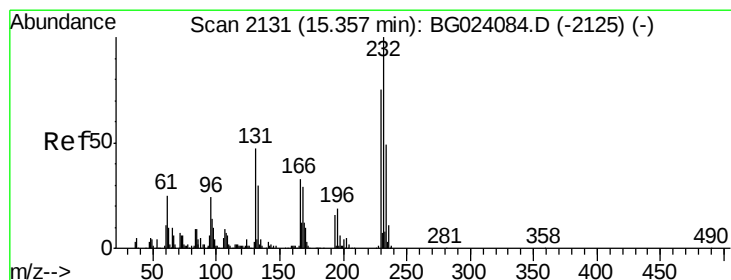
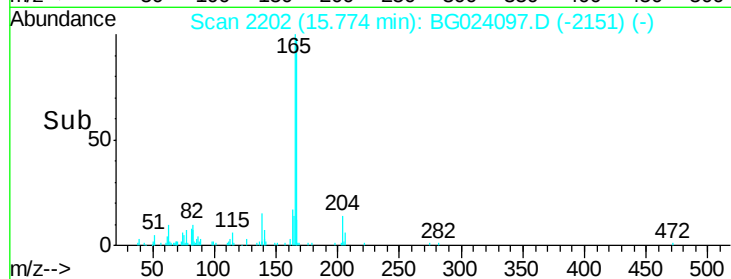
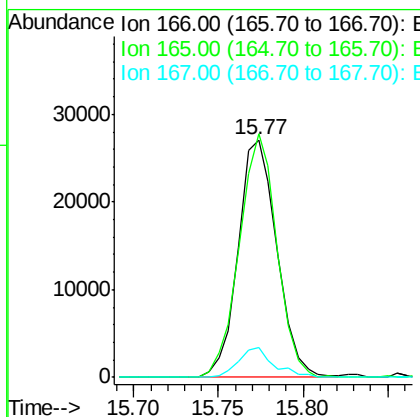
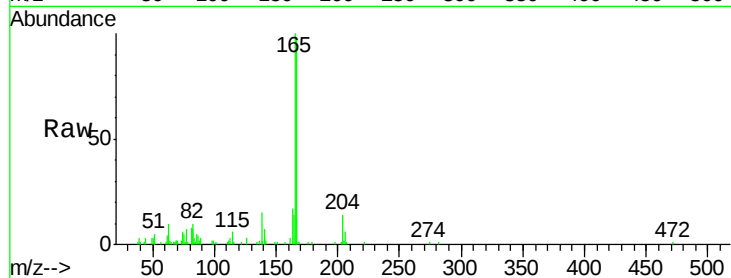




#57  
**Fluorene**  
 Concen: 4.50 ng  
 RT: 15.77 min Scan# 2202  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

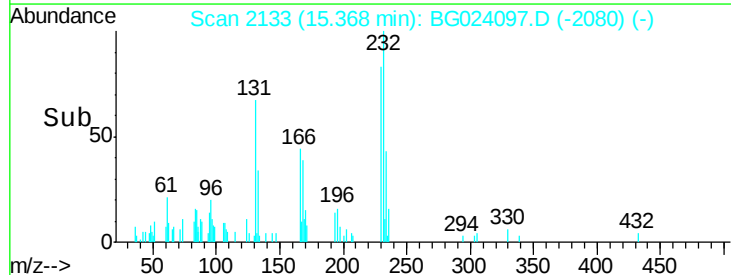
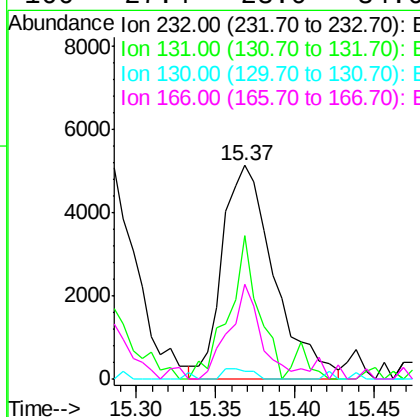
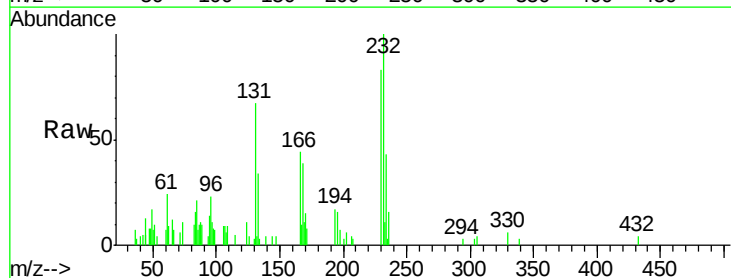
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

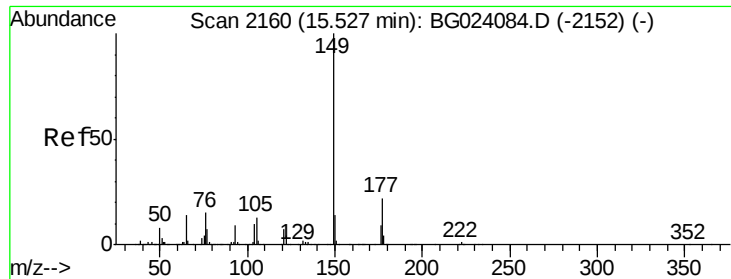
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 102.5 | 81.0  | 121.6 |
| 167     | 12.6  | 12.0  | 18.0  |



#58  
**2,3,4,6-Tetrachlorophenol**  
 Concen: 4.61 ng  
 RT: 15.37 min Scan# 2133  
 Delta R.T. 0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 38.7  | 32.7  | 49.1  |
| 130     | 2.5   | 2.6   | 3.8#  |
| 166     | 27.4  | 23.0  | 34.6  |

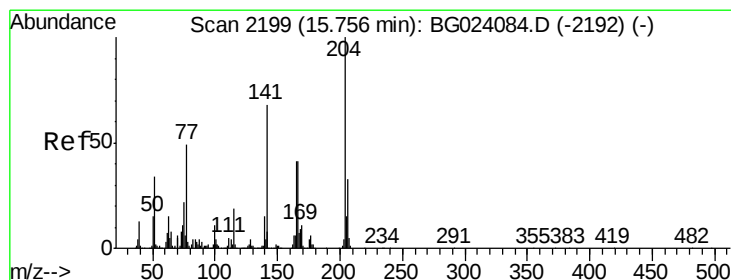
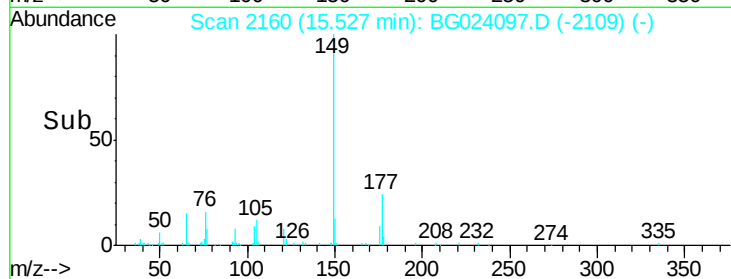
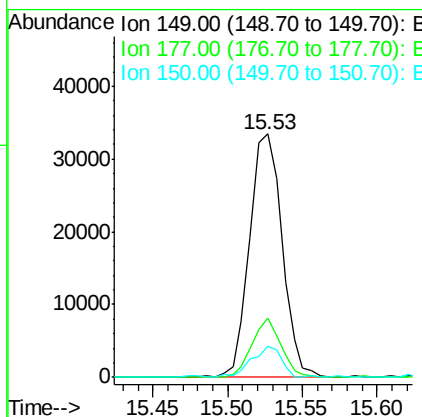
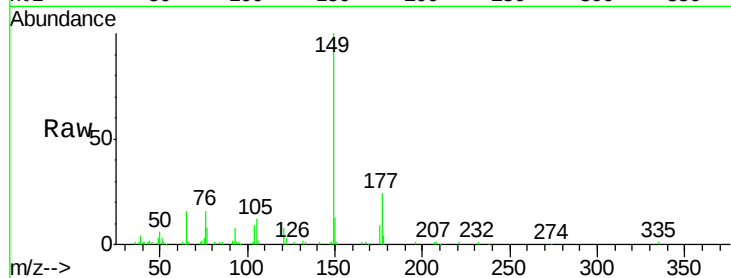




#59  
Diethylphthalate  
Concen: 4.54 ng  
RT: 15.53 min Scan# 2160  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

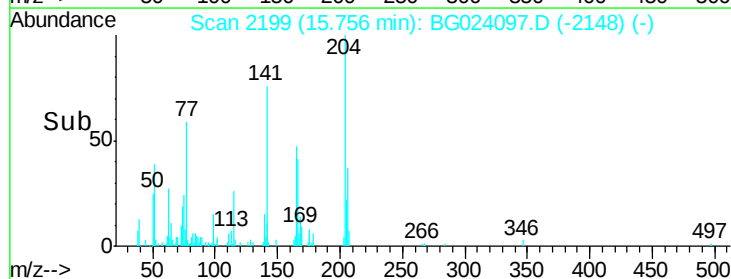
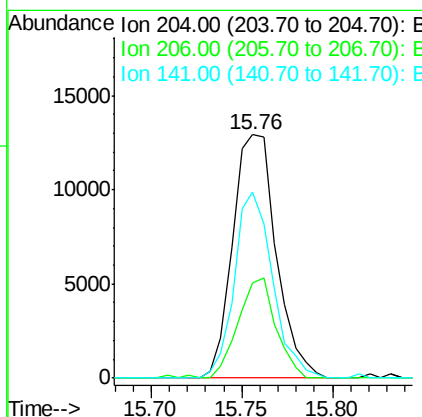
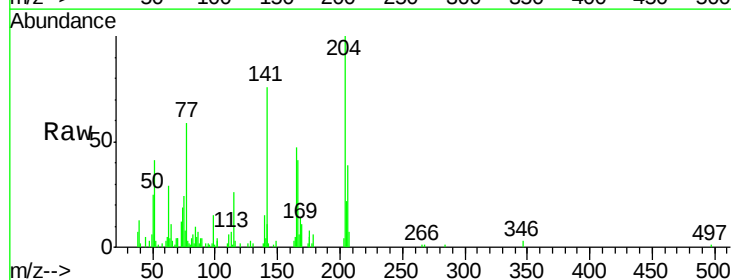
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

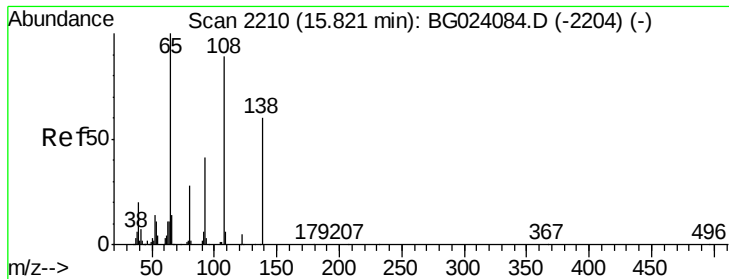
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 24.3  | 19.2  | 28.8  |
| 150     | 12.9  | 10.6  | 16.0  |



#60  
4-Chlorophenyl-phenylether  
Concen: 4.20 ng  
RT: 15.76 min Scan# 2199  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 39.3  | 28.5  | 42.7  |
| 141     | 76.3  | 51.4  | 77.0  |





#61

4-Nitroaniline

Concen: 2.12 ng

RT: 15.84 min Scan# 2213

Delta R.T. 0.02 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

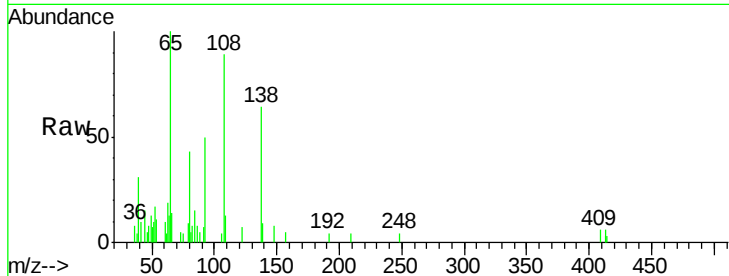
Tgt Ion:138 Resp: 4755

Ion Ratio Lower Upper

138 100

92 77.6 54.1 94.1

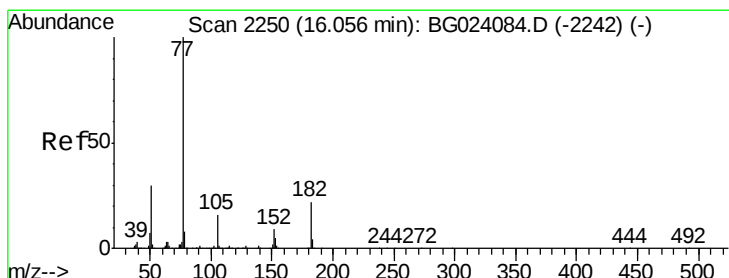
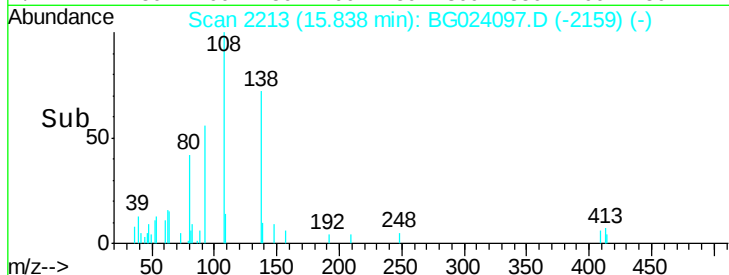
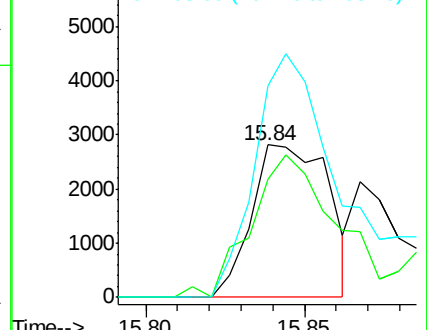
108 138.7 133.9 173.9



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BGC

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 4.55 ng

RT: 16.06 min Scan# 2250

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Tgt Ion: 77 Resp: 51319

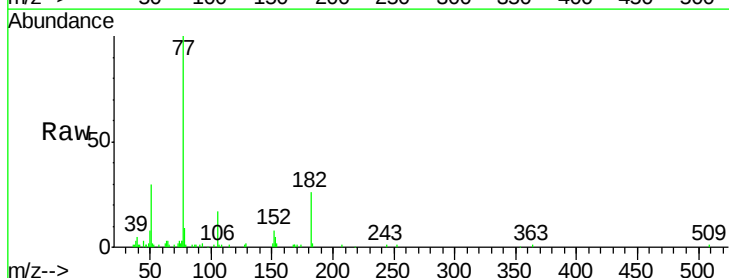
Ion Ratio Lower Upper

77 100

182 25.7 3.5 43.5

105 17.0 0.0 38.5

51 30.2 17.1 57.1

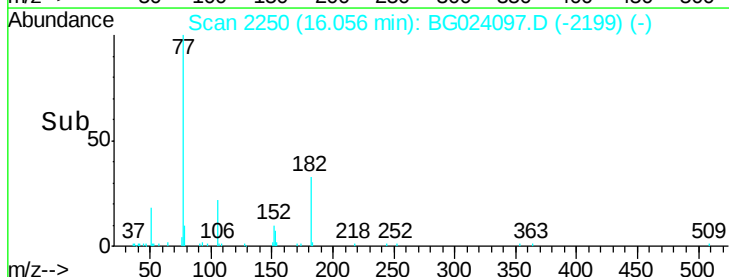
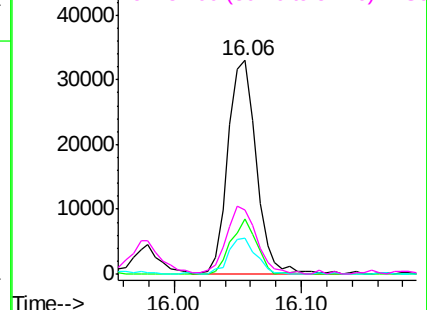


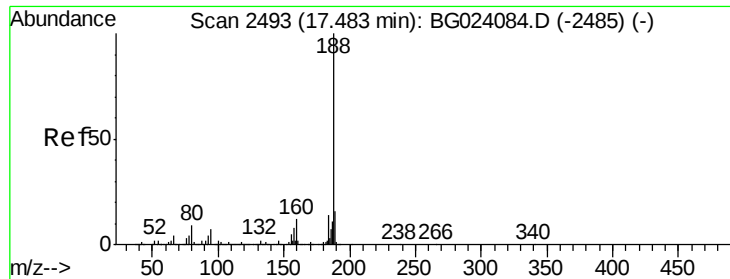
Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BGC

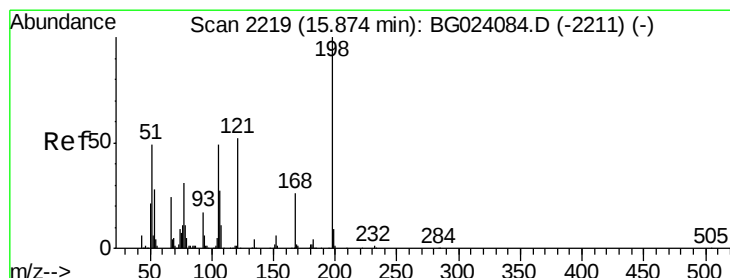
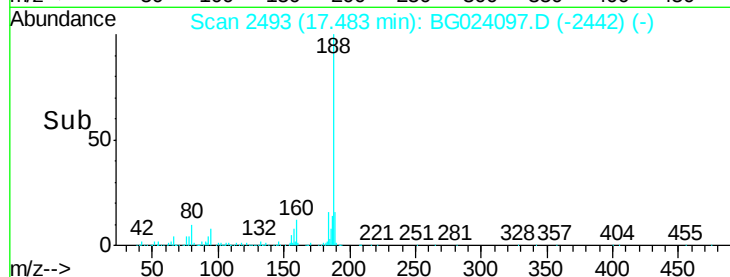
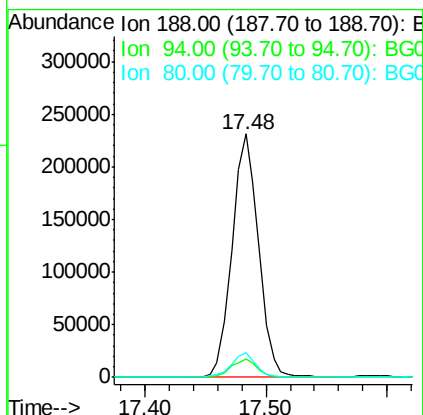
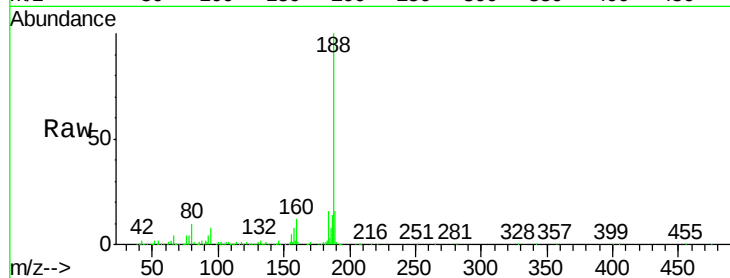




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.48 min Scan# 2493  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

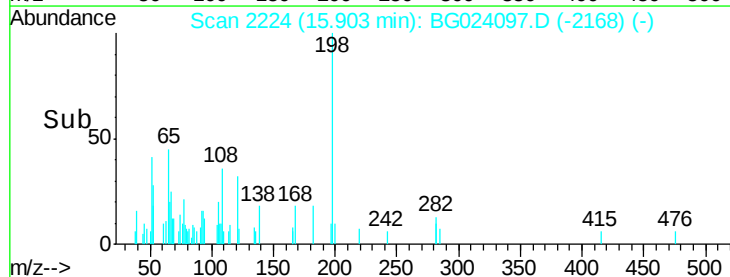
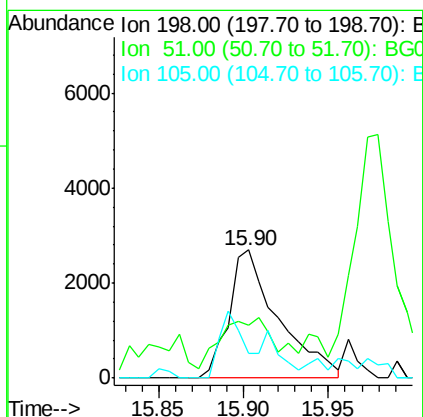
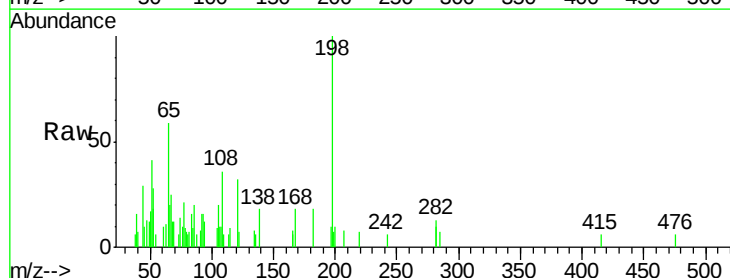
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

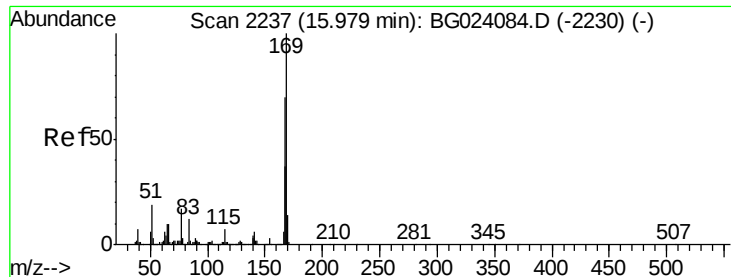
Tgt Ion:188 Resp: 352009  
Ion Ratio Lower Upper  
188 100  
94 7.6 5.2 7.8  
80 10.3 7.2 10.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.22 ng  
RT: 15.90 min Scan# 2224  
Delta R.T. 0.03 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion:198 Resp: 5430  
Ion Ratio Lower Upper  
198 100  
51 41.2 26.0 66.0  
105 19.8 20.1 60.1#





#65

n-Nitrosodiphenylamine

Concen: 4.09 ng

RT: 15.98 min Scan# 2237

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

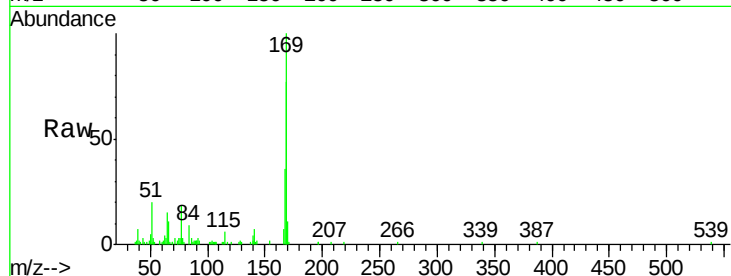
Tgt Ion:169 Resp: 39424

Ion Ratio Lower Upper

169 100

168 76.7 55.0 82.4

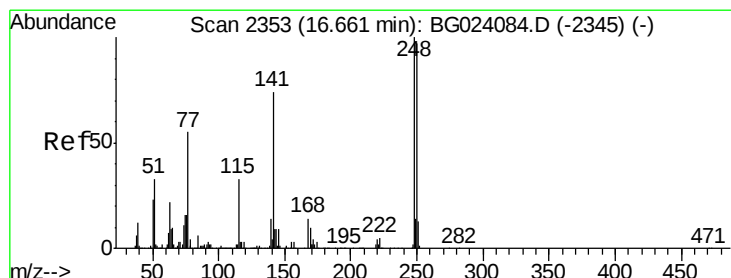
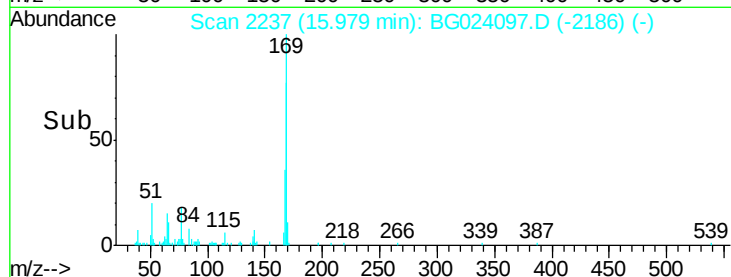
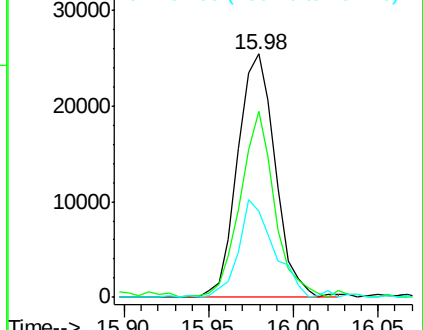
167 35.6 27.4 41.0



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#66

4-Bromophenyl-phenylether

Concen: 4.04 ng

RT: 16.65 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

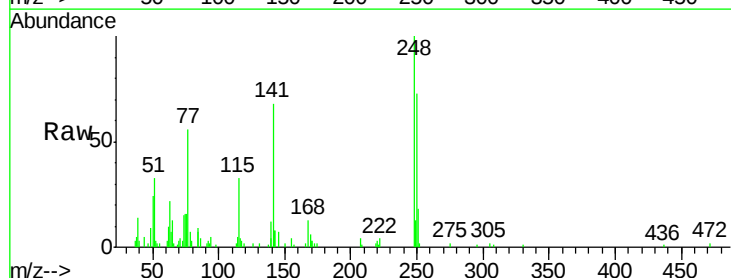
Tgt Ion:248 Resp: 16480

Ion Ratio Lower Upper

248 100

250 72.9 77.8 116.8#

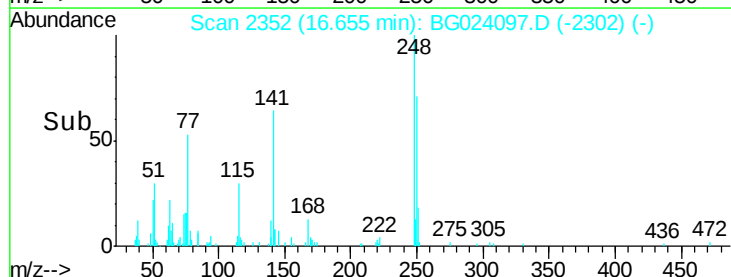
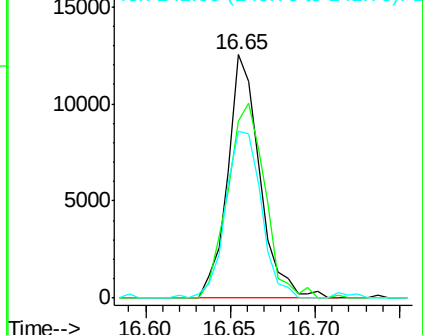
141 68.4 65.7 98.5

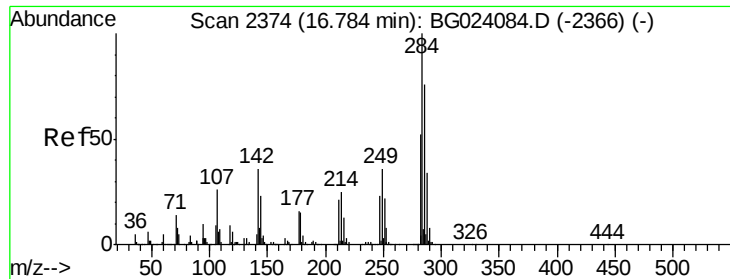


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

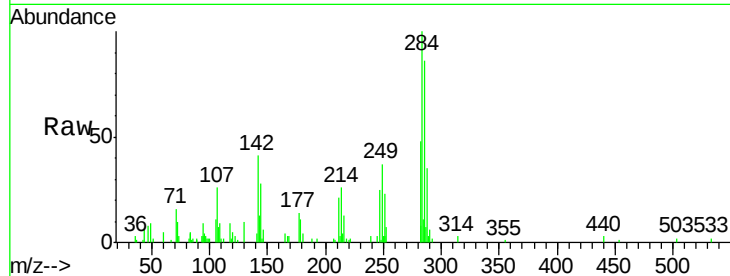




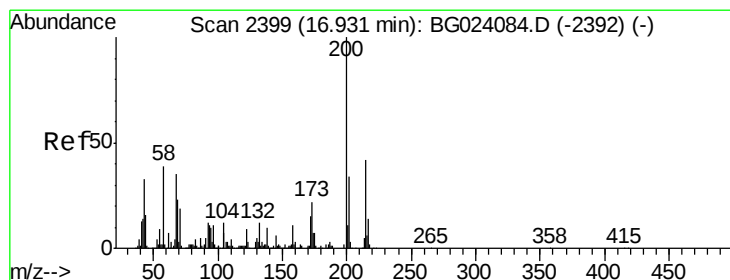
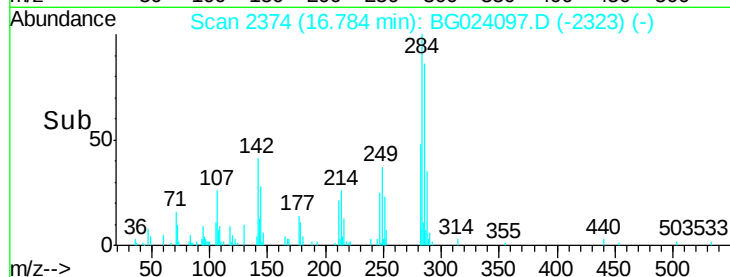
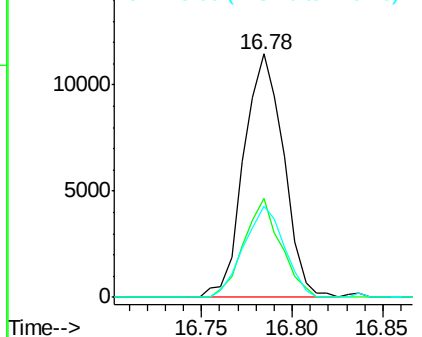
#67  
Hexachlorobenzene  
Concen: 3.83 ng  
RT: 16.78 min Scan# 2374  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

Tgt Ion:284 Resp: 17614  
Ion Ratio Lower Upper  
284 100  
142 40.8 26.8 40.2#  
249 37.4 28.9 43.3

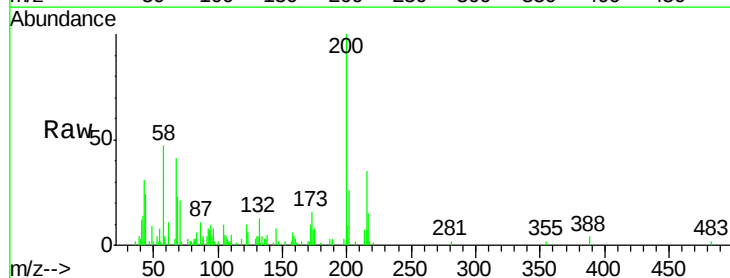


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

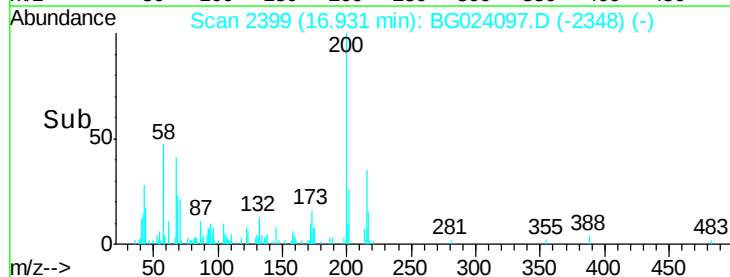
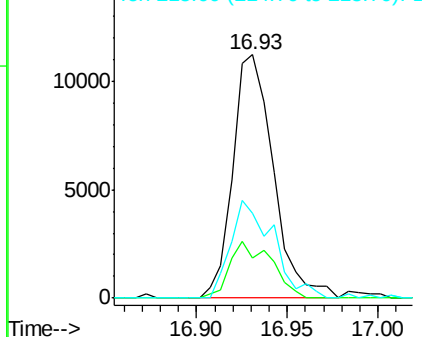


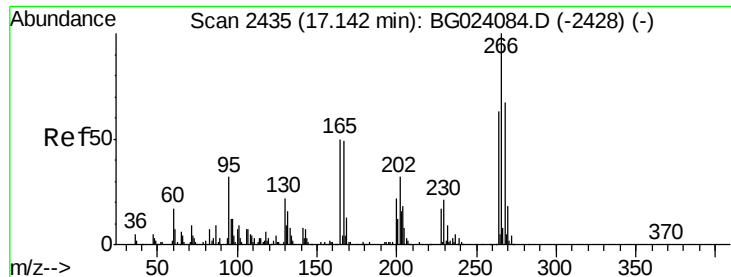
#68  
Atrazine  
Concen: 4.11 ng  
RT: 16.93 min Scan# 2399  
Delta R.T. -0.00 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion:200 Resp: 17455  
Ion Ratio Lower Upper  
200 100  
173 16.3 1.6 41.6  
215 34.7 28.7 68.7



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

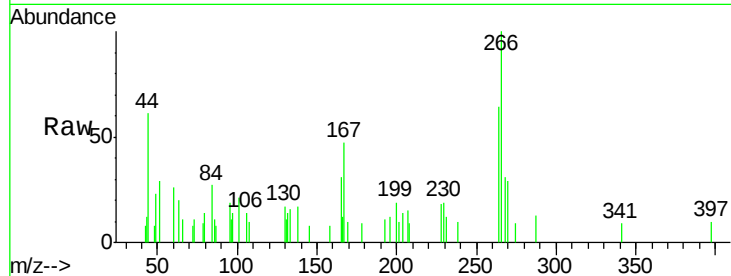




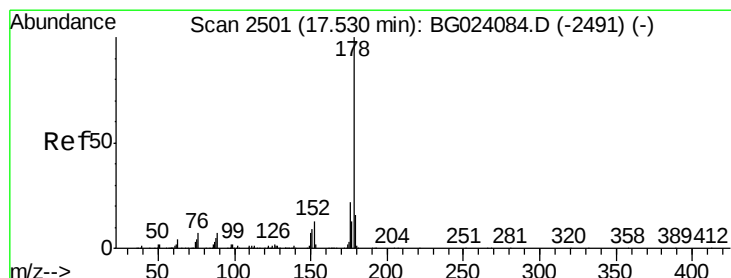
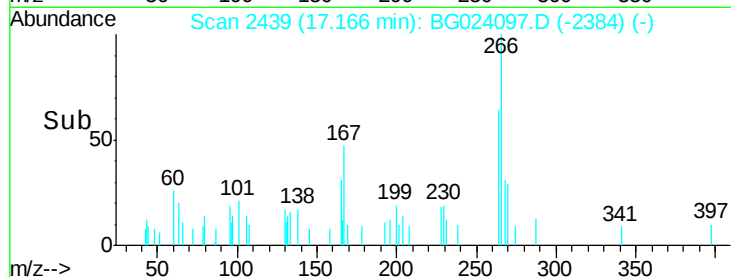
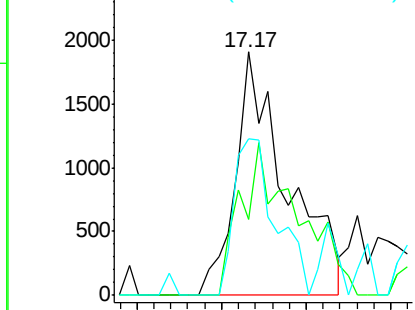
#69  
 Pentachlorophenol  
 Concen: 5.18 ng  
 RT: 17.17 min Scan# 2439  
 Delta R.T. 0.02 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

Tgt Ion:266 Resp: 4034  
 Ion Ratio Lower Upper  
 266 100  
 268 31.3 51.9 77.9#  
 264 64.3 50.6 75.8

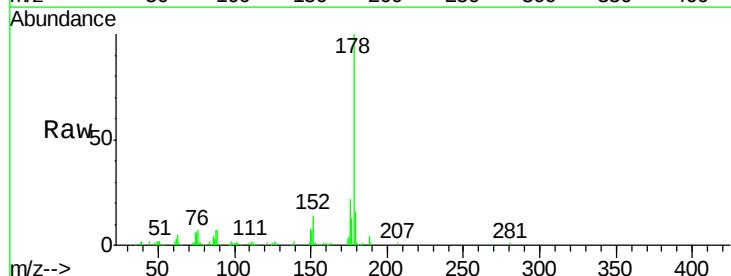


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

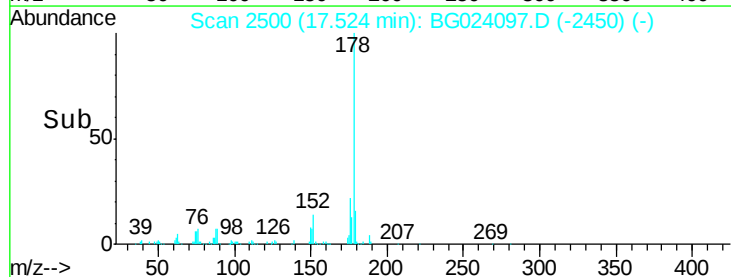
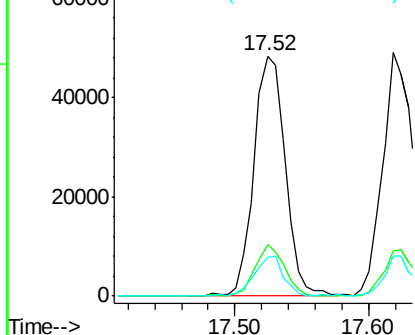


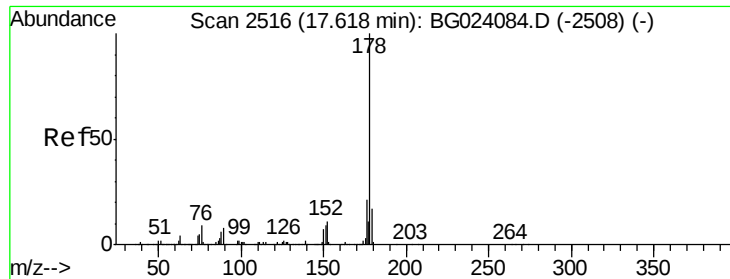
#70  
 Phenanthrene  
 Concen: 4.36 ng  
 RT: 17.52 min Scan# 2500  
 Delta R.T. -0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Tgt Ion:178 Resp: 78224  
 Ion Ratio Lower Upper  
 178 100  
 176 21.6 16.8 25.2  
 179 16.3 14.3 21.5



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

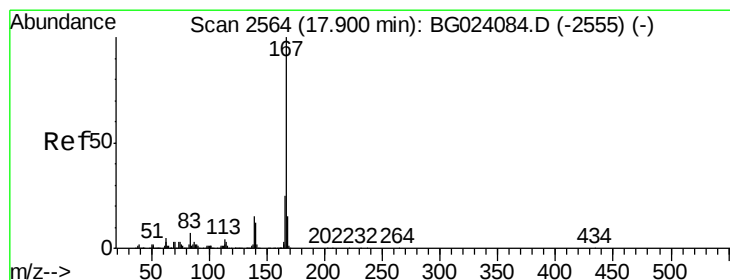
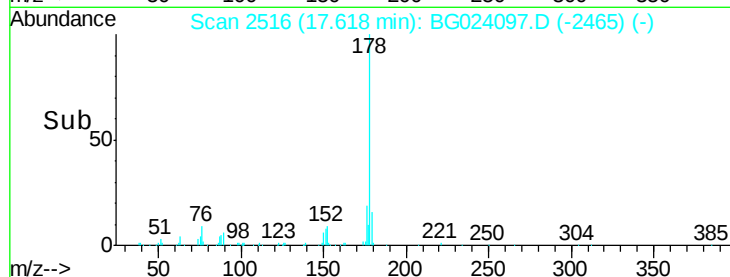
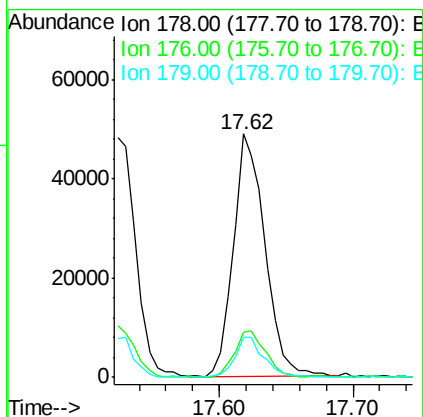
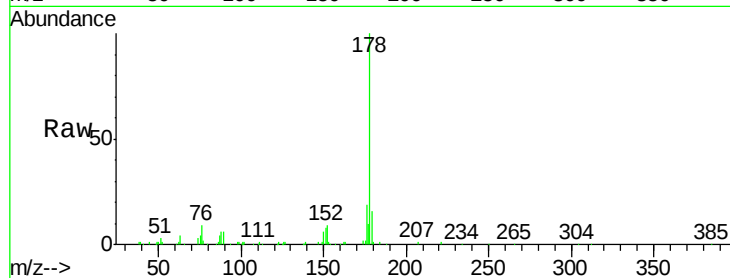




#71  
 Anthracene  
 Concen: 4.35 ng  
 RT: 17.62 min Scan# 2516  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

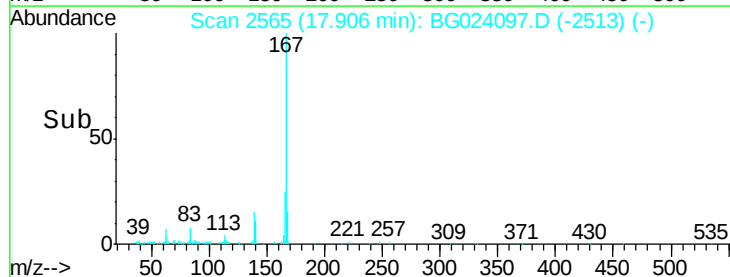
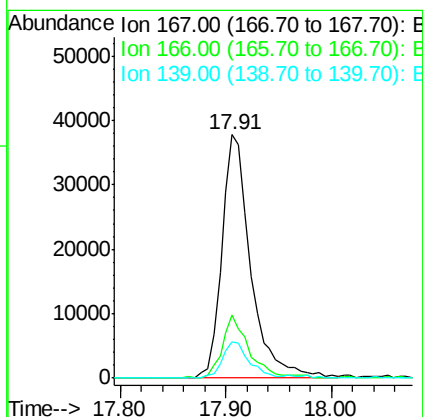
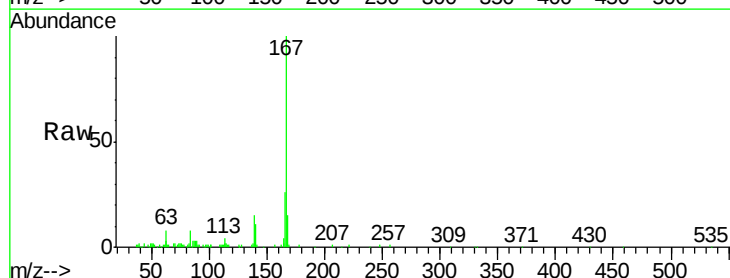
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

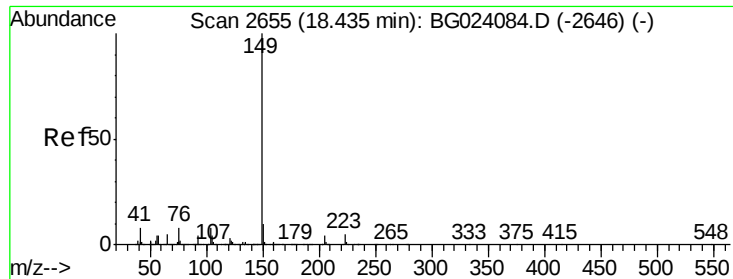
Tgt Ion:178 Resp: 80143  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 17.3 25.9  
 179 16.4 14.0 21.0



#72  
 Carbazole  
 Concen: 4.17 ng  
 RT: 17.91 min Scan# 2565  
 Delta R.T. 0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Tgt Ion:167 Resp: 71558  
 Ion Ratio Lower Upper  
 167 100  
 166 25.7 20.7 31.1  
 139 14.8 11.9 17.9





#73

Di-n-butylphthalate

Concen: 3.97 ng

RT: 18.43 min Scan# 2654

Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

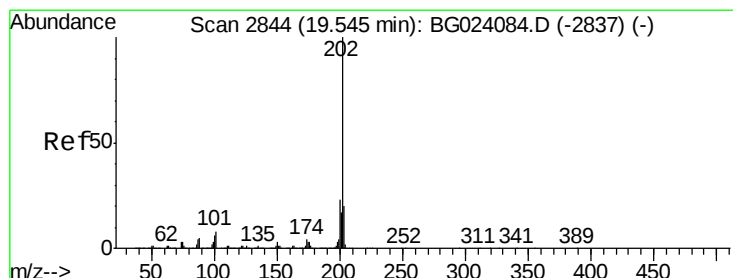
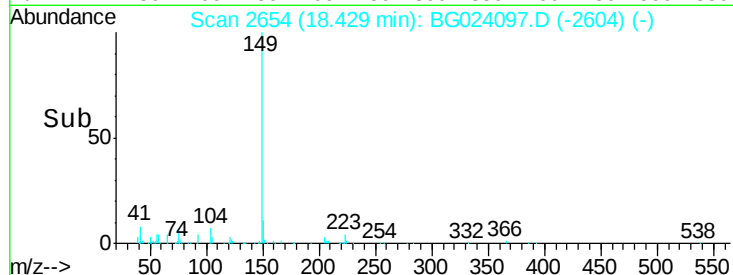
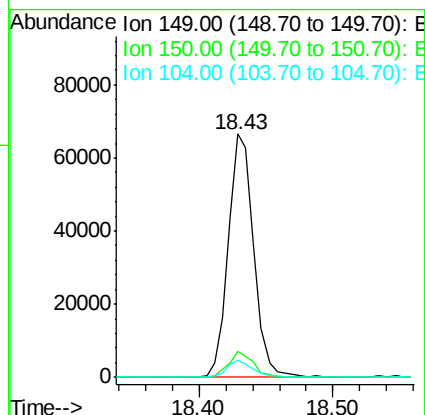
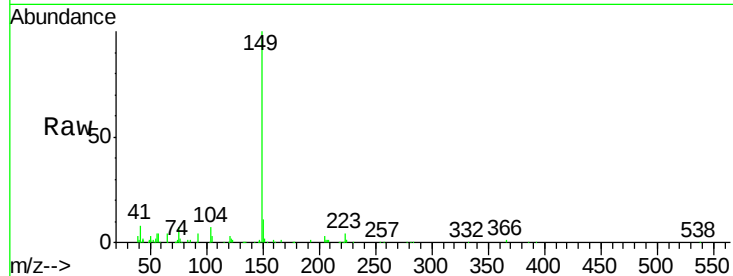
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 89203 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 150       | 10.9  | 9.1   | 13.7  |
| 104       | 7.0   | 6.9   | 10.3  |



#74

Fluoranthene

Concen: 4.33 ng

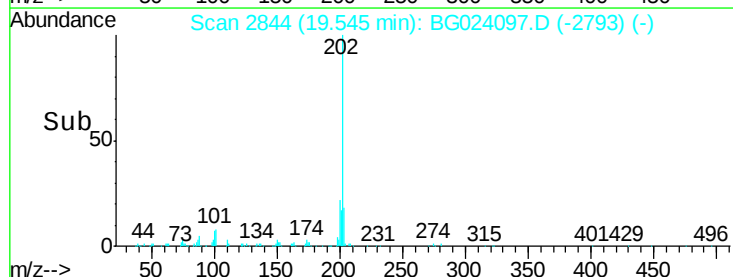
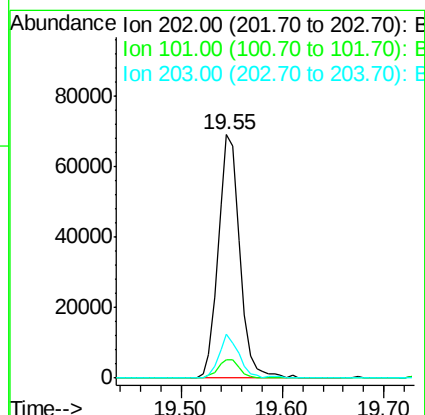
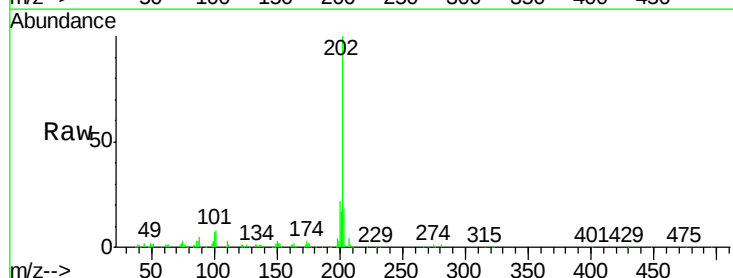
RT: 19.55 min Scan# 2844

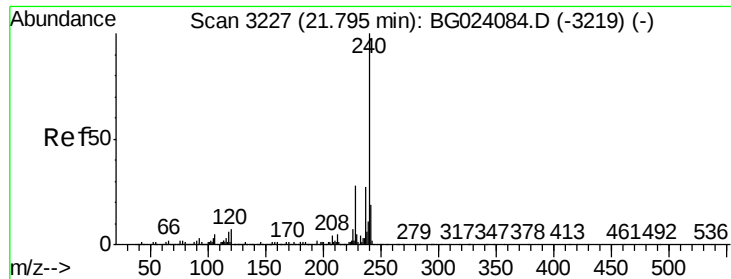
Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 101469 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.6   | 0.0   | 27.4   |
| 203       | 18.2  | 1.7   | 41.7   |

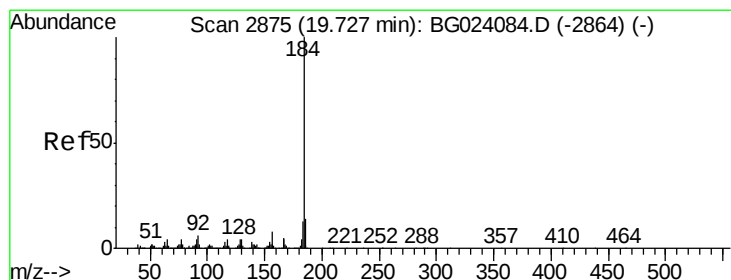
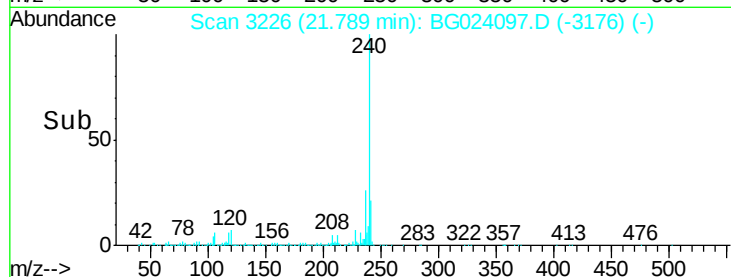
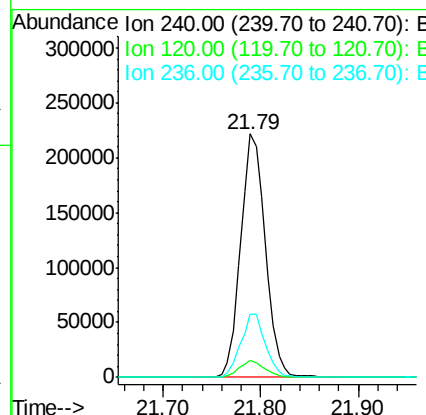
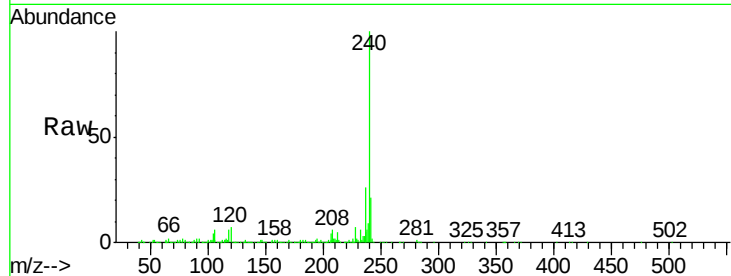




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.79 min Scan# 3226  
Delta R.T. -0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

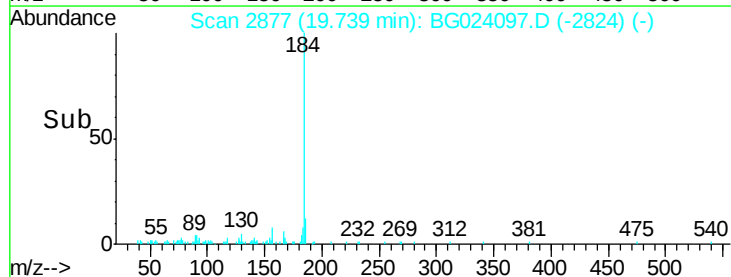
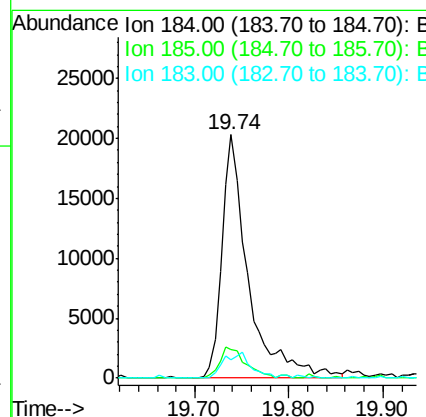
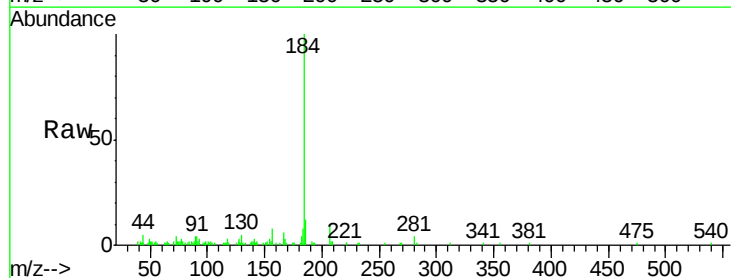
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

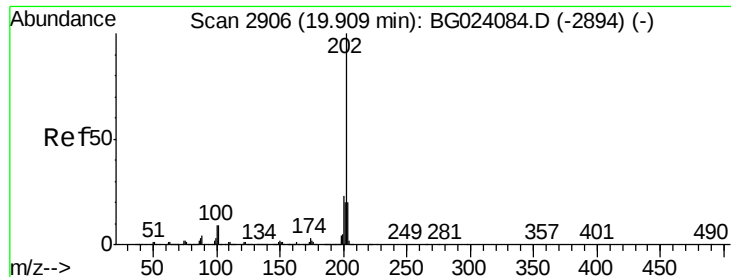
Tgt Ion:240 Resp: 390316  
Ion Ratio Lower Upper  
240 100  
120 7.2 4.1 6.1#  
236 26.0 21.1 31.7



#76  
Benzidine  
Concen: 3.61 ng  
RT: 19.74 min Scan# 2877  
Delta R.T. 0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion:184 Resp: 39904  
Ion Ratio Lower Upper  
184 100  
185 11.7 12.6 19.0#  
183 7.6 10.7 16.1#





#77

Pyrene

Concen: 3.92 ng

RT: 19.91 min Scan# 2906

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

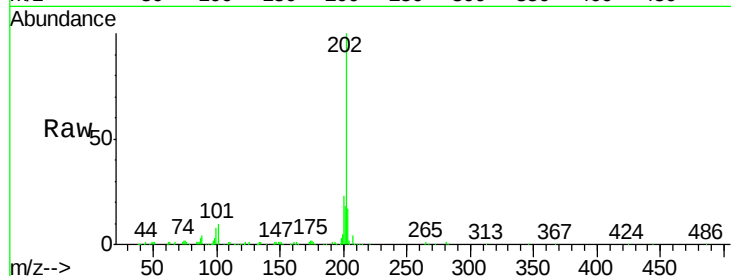
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

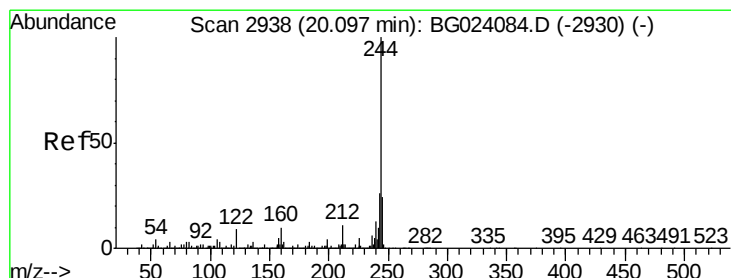
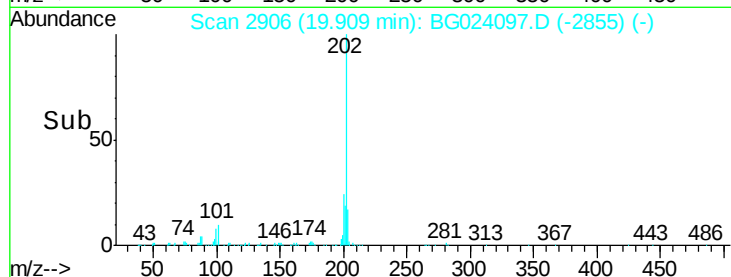
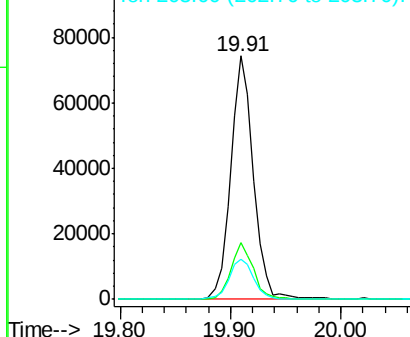
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 23.3  | 21.2  | 31.8  |
| 203     | 16.7  | 16.8  | 25.2  |



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 78.13 ng

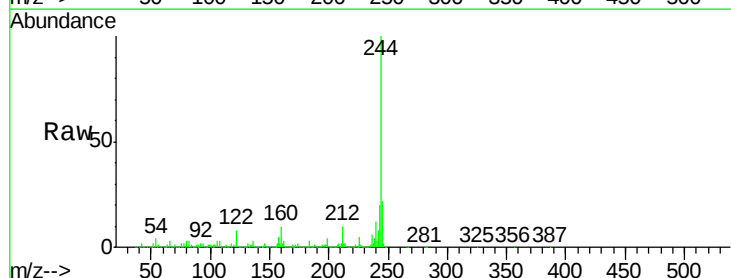
RT: 20.09 min Scan# 2937

Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

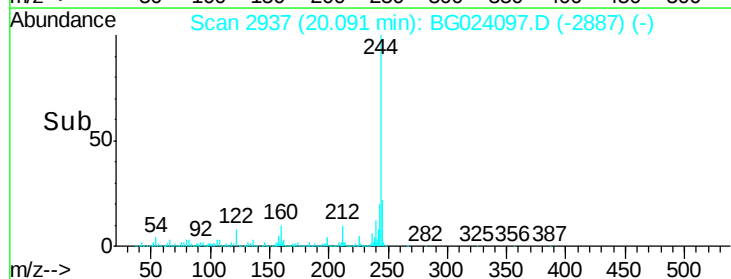
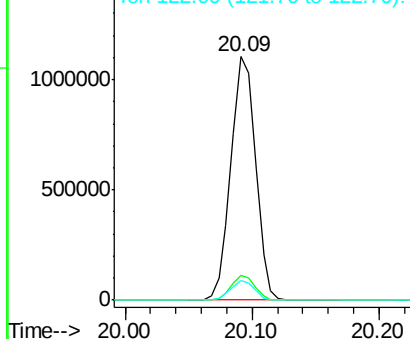
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.9   | 10.8  | 16.2  |
| 122     | 8.2   | 8.0   | 12.0  |

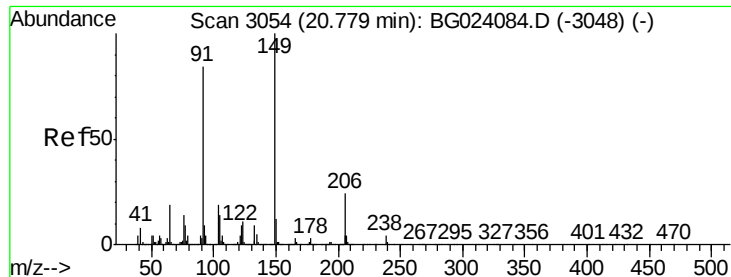


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

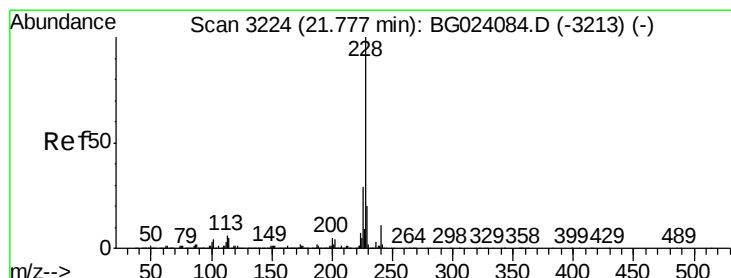
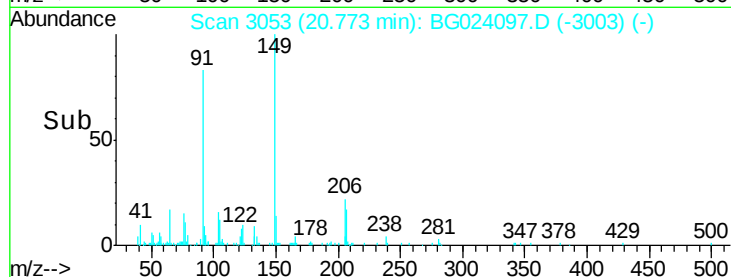
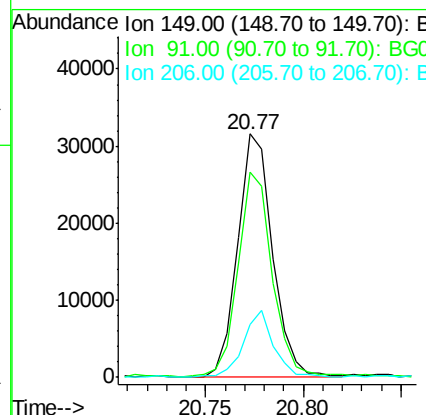
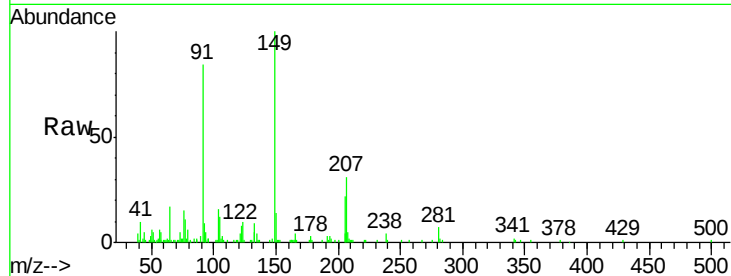




#79  
Butylbenzylphthalate  
Concen: 3.90 ng  
RT: 20.77 min Scan# 3053  
Delta R.T. -0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

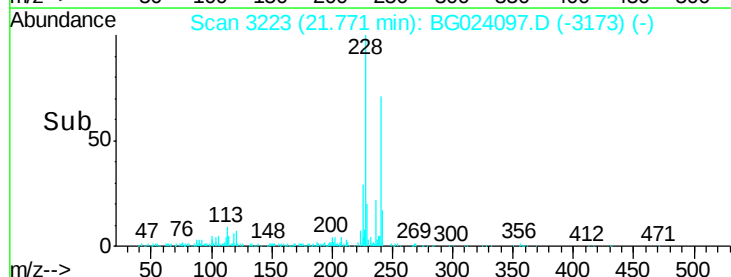
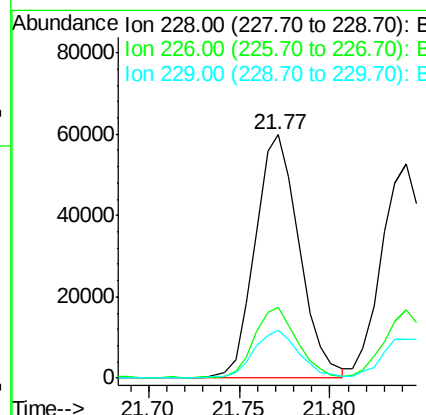
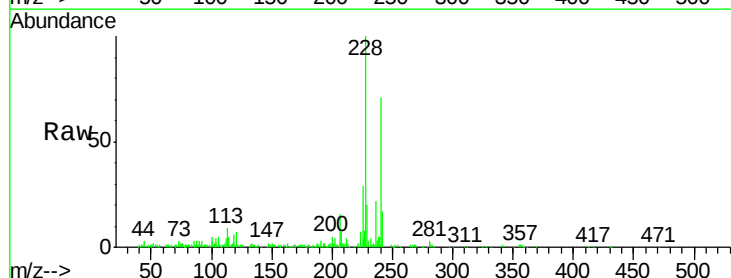
Instrument :  
BNA\_G  
ClientSampleId :  
LOD-SOIL2016-01-QT4

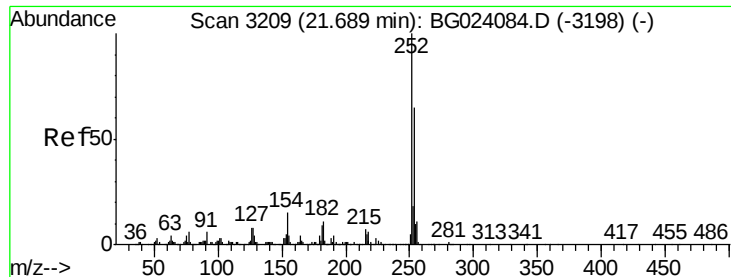
Tgt Ion:149 Resp: 39128  
Ion Ratio Lower Upper  
149 100  
91 84.1 68.1 102.1  
206 21.7 19.8 29.6



#80  
Benzo(a)anthracene  
Concen: 4.55 ng  
RT: 21.77 min Scan# 3223  
Delta R.T. -0.01 min  
Lab File: BG024097.D  
Acq: 23 Sep 2016 21:20

Tgt Ion:228 Resp: 101048  
Ion Ratio Lower Upper  
228 100  
226 29.2 25.3 37.9  
229 19.8 19.9 29.9#

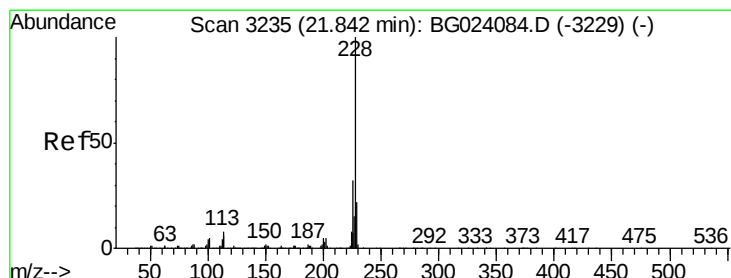
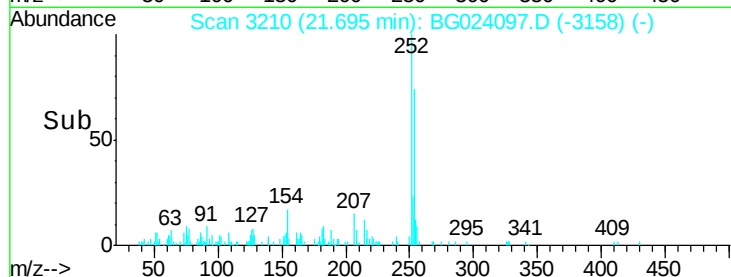
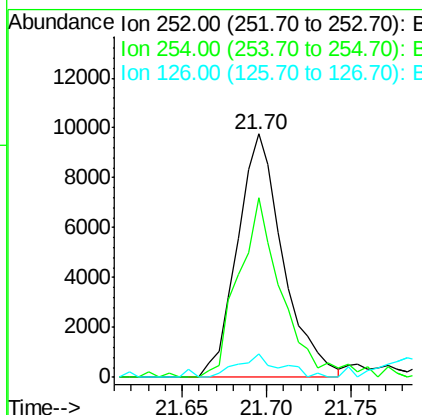
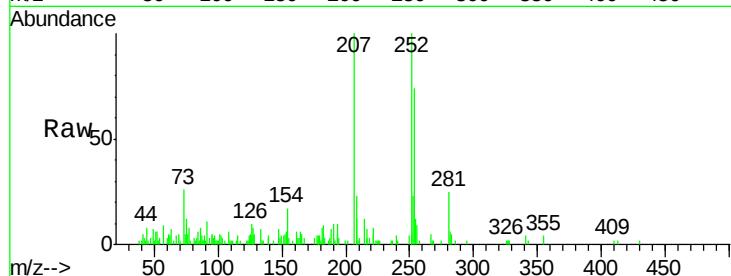




#81  
 3,3'-Dichlorobenzidine  
 Concen: 2.30 ng  
 RT: 21.70 min Scan# 3210  
 Delta R.T. 0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

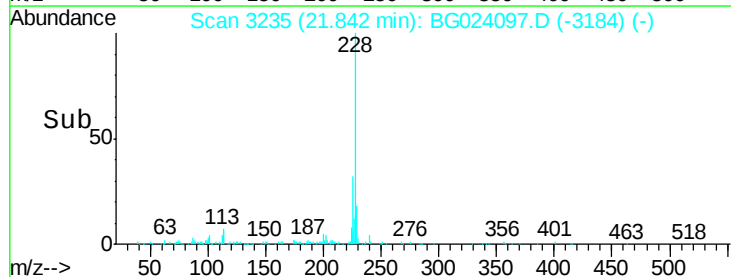
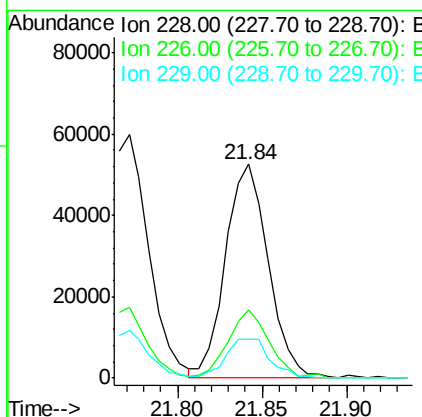
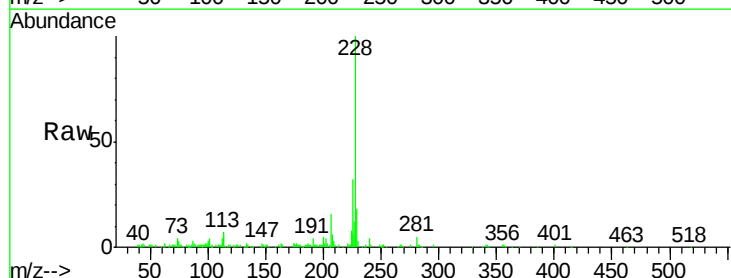
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

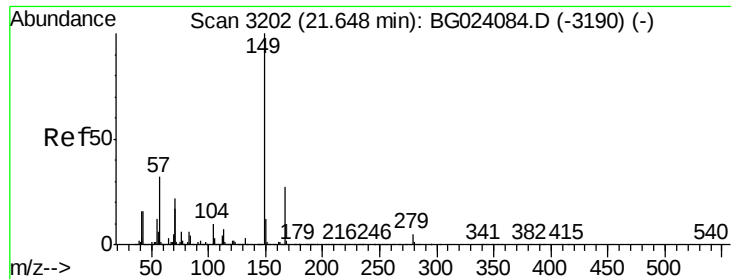
Tgt Ion: 252 Resp: 18298  
 Ion Ratio Lower Upper  
 252 100  
 254 73.8 51.2 76.8  
 126 9.6 5.3 7.9#



#82  
 Chrysene  
 Concen: 4.42 ng  
 RT: 21.84 min Scan# 3235  
 Delta R.T. -0.00 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Tgt Ion: 228 Resp: 92351  
 Ion Ratio Lower Upper  
 228 100  
 226 31.6 26.7 40.1  
 229 18.0 17.4 26.2

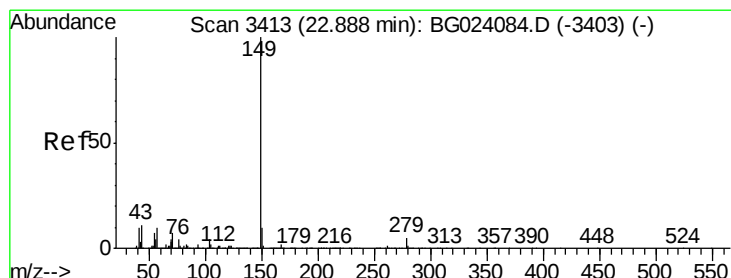
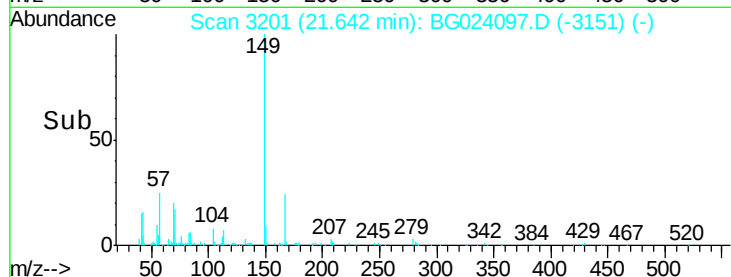
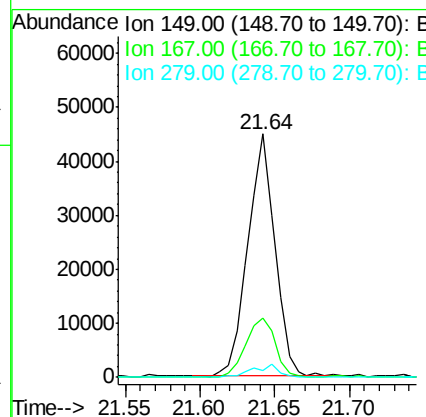
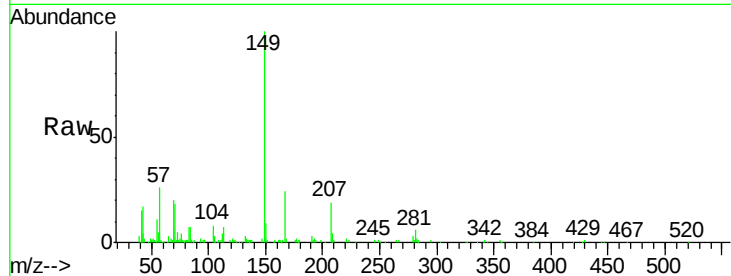




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.66 ng  
 RT: 21.64 min Scan# 3201  
 Delta R.T. -0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

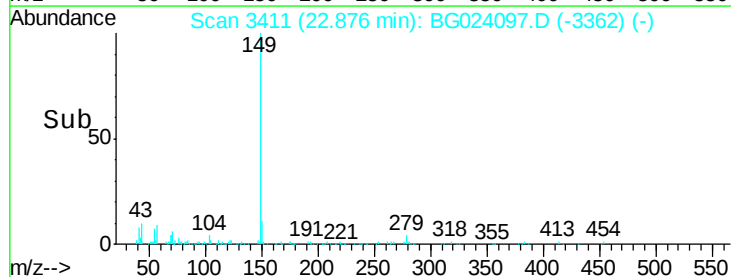
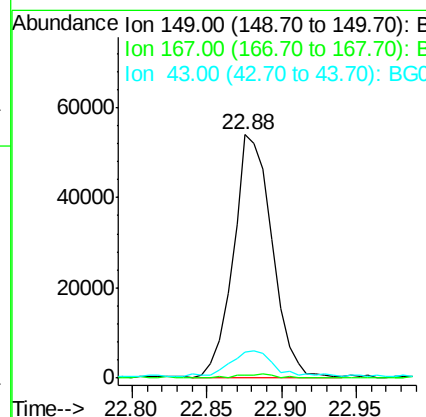
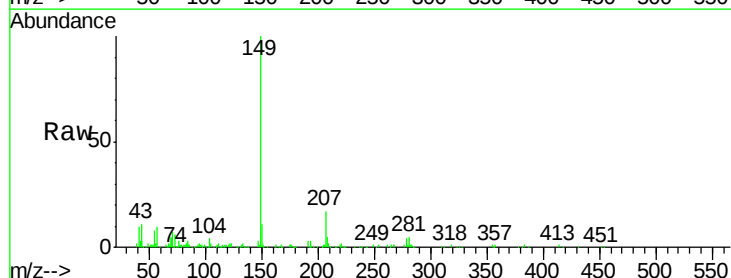
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2016-01-QT4

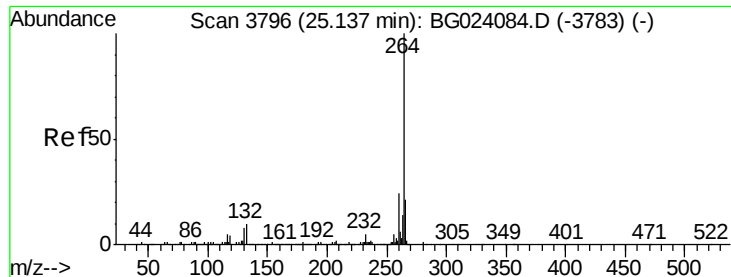
Tgt Ion:149 Resp: 55844  
 Ion Ratio Lower Upper  
 149 100  
 167 24.3 24.0 36.0  
 279 2.7 4.8 7.2#



#84  
 Di-n-octyl phthalate  
 Concen: 4.68 ng  
 RT: 22.88 min Scan# 3411  
 Delta R.T. -0.01 min  
 Lab File: BG024097.D  
 Acq: 23 Sep 2016 21:20

Tgt Ion:149 Resp: 96786  
 Ion Ratio Lower Upper  
 149 100  
 167 1.6 1.5 2.3  
 43 12.1 8.8 13.2





#86

Perylene-d12

Concen: 20.00 ng

RT: 25.13 min Scan# 3795

Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

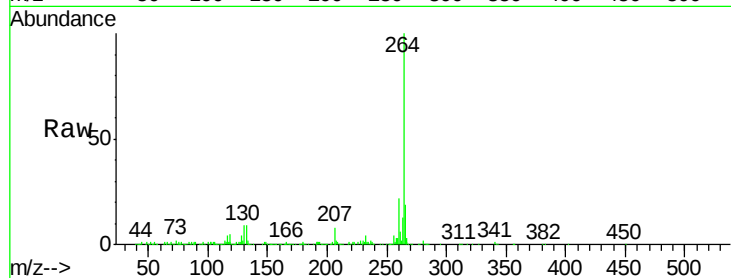
Tgt Ion:264 Resp: 381234

Ion Ratio Lower Upper

264 100

260 22.3 18.4 27.6

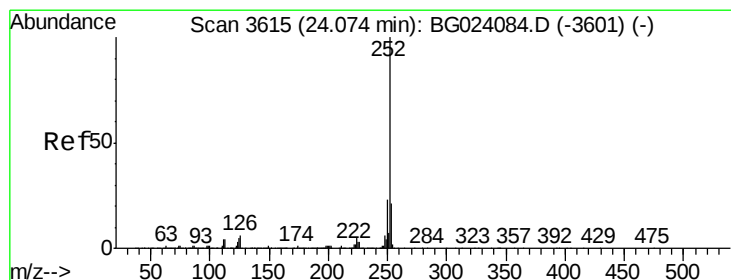
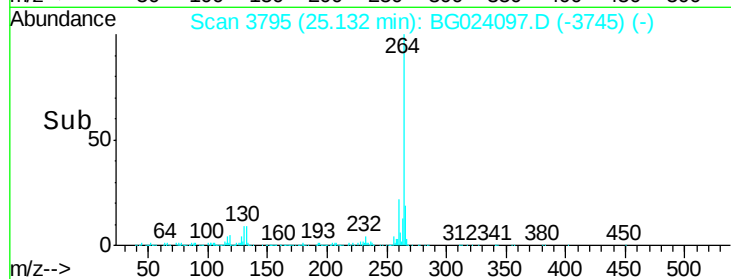
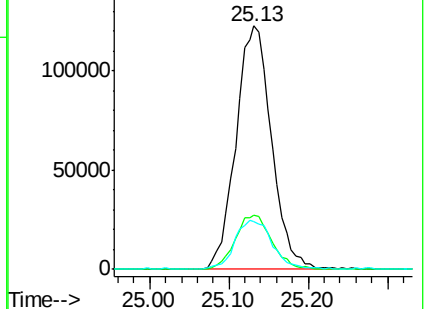
265 19.4 18.9 28.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 4.10 ng

RT: 24.14 min Scan# 3626

Delta R.T. 0.06 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

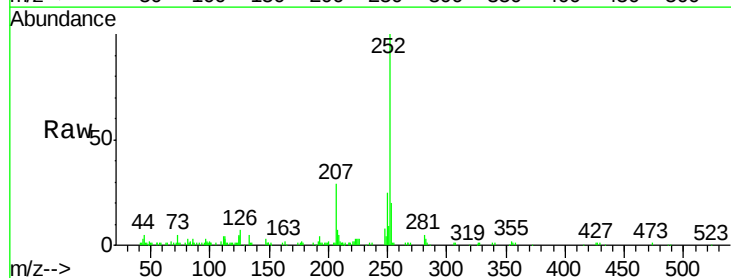
Tgt Ion:252 Resp: 90951

Ion Ratio Lower Upper

252 100

253 19.5 18.9 28.3

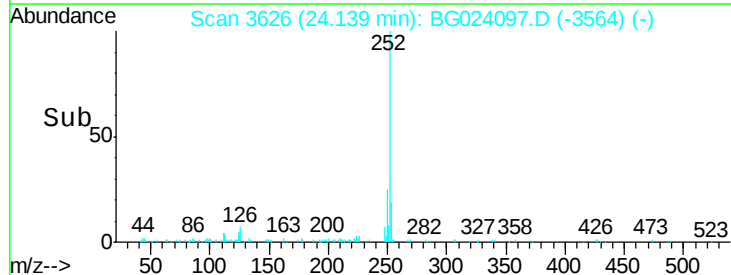
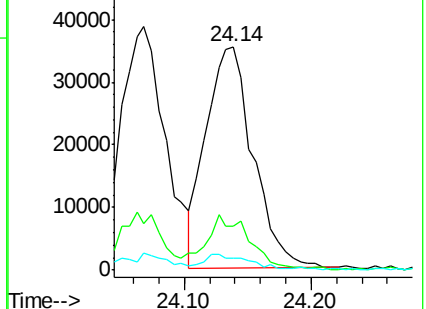
125 5.3 3.9 5.9

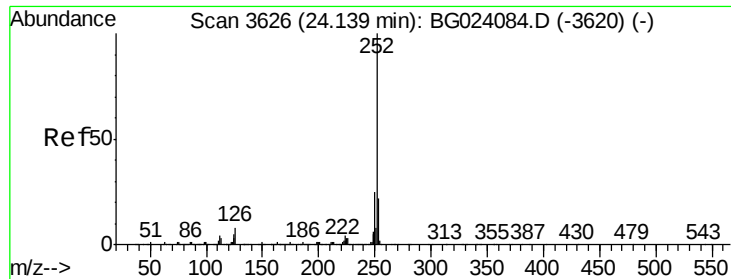


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 4.13 ng

RT: 24.14 min Scan# 3626

Delta R.T. -0.00 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

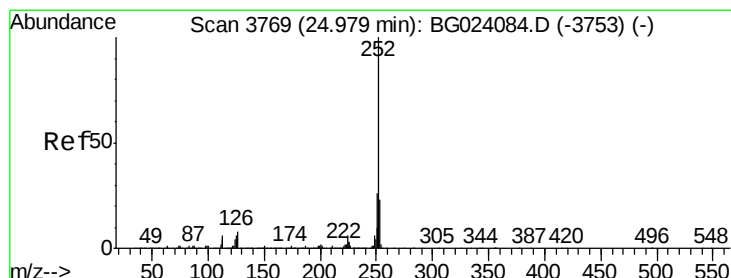
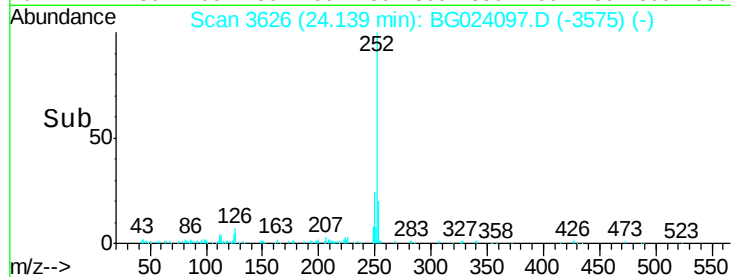
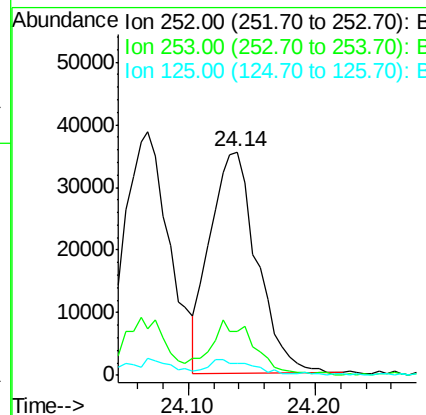
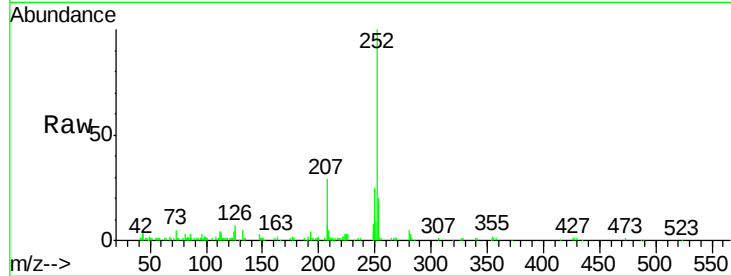
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 90951 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 19.5  | 18.8  | 28.2  |
| 125       | 5.3   | 3.2   | 4.8#  |



#89

Benzo(a)pyrene

Concen: 4.35 ng

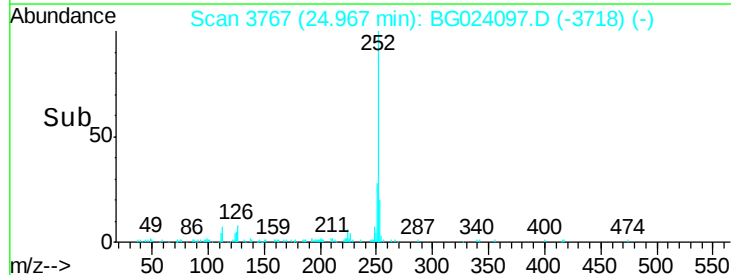
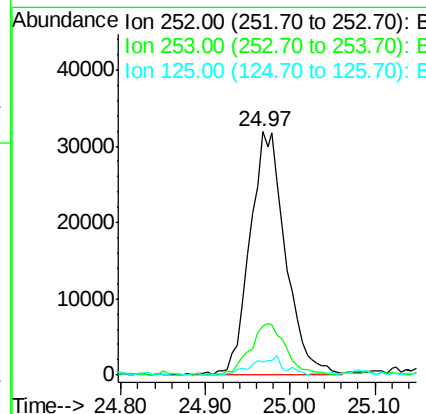
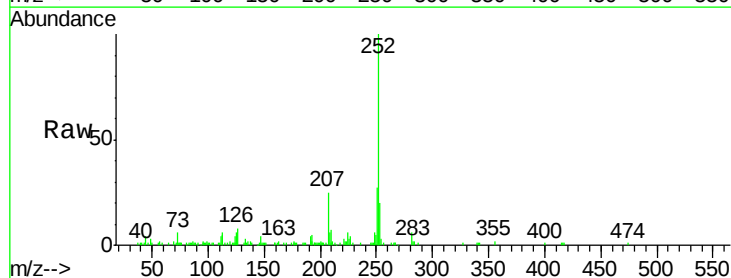
RT: 24.97 min Scan# 3767

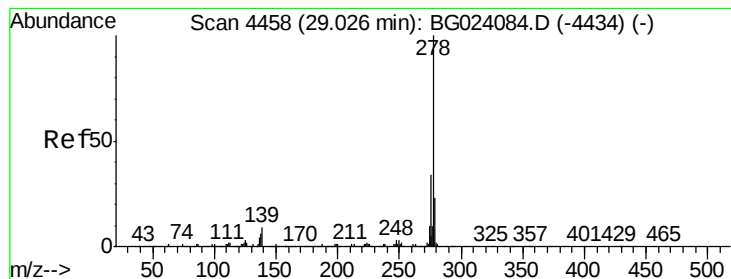
Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 93357 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 20.2  | 18.7  | 28.1  |
| 125       | 5.5   | 3.9   | 5.9   |





#90

Dibenzo(a,h)anthracene

Concen: 4.10 ng

RT: 29.02 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BG024097.D

Acq: 23 Sep 2016 21:20

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2016-01-QT4

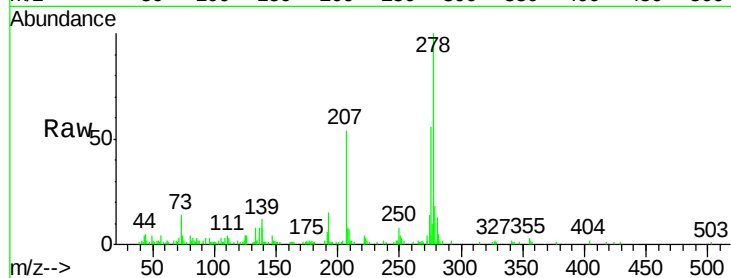
Tgt Ion:278 Resp: 87679

Ion Ratio Lower Upper

278 100

139 11.7 4.7 7.1#

279 17.8 18.3 27.5#



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

