

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101818\  
 Data File : VW006203.D  
 Acq On : 19 Oct 2018 05:12  
 Operator : VA/AP  
 Sample : J5590-05  
 Misc : 7.45G/5ML/MSVOA W/SOIL  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 LS-SOIL-2

Quant Time: Oct 19 06:09:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 Response via : Initial Calibration

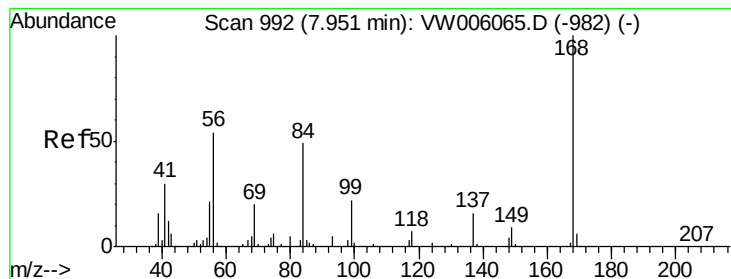
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 26407    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 37808    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 29557    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 10738    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65  | 11620    | 53.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.16% |      |
| 35) Dibromofluoromethane    | 7.89   | 113 | 10566    | 47.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.60%  |      |
| 50) Toluene-d8              | 10.33  | 98  | 37760    | 44.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.86%  |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 10668    | 33.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 66.84%  |      |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 4.13  | 43   | 3791     | 82.374  | ug/l   | 98     |
| 18) Methyl Acetate             | 4.68  | 43   | 301      | 2.732   | ug/l # | 49     |
| 20) Methylene Chloride         | 4.93  | 84   | 1495     | 4.988   | ug/l # | 67     |
| 25) 2-Butanone                 | 7.19  | 43   | 354      | 5.985   | ug/l # | 46     |
| 31) Cyclohexane                | 7.95  | 56   | 557      | 1.390   | ug/l # | 42     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 1627     | 4.669   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 2523     | 6.604   | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 213      | 1.606   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 5751     | 70.119  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 5751     | 167.613 | ug/l # | 10     |
| 95) Naphthalene                | 15.38 | 128  | 485      | 1.149   | ug/l # | 74     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

Instrument :

MSVOA\_W

ClientSampled :

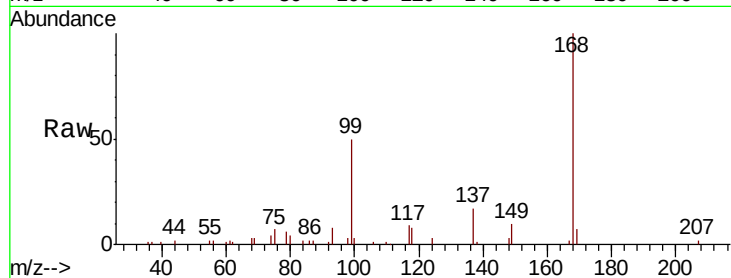
LS-SOIL-2

Tot Ion:168 Resp: 26407

Ion Ratio Lower Upper

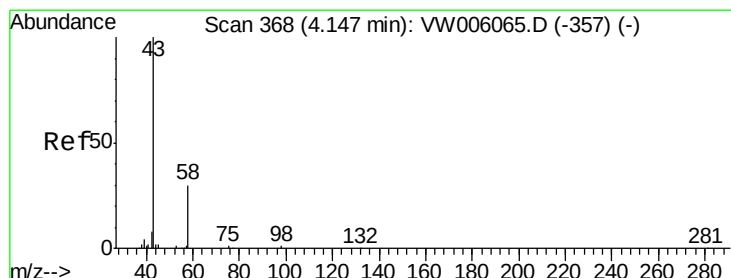
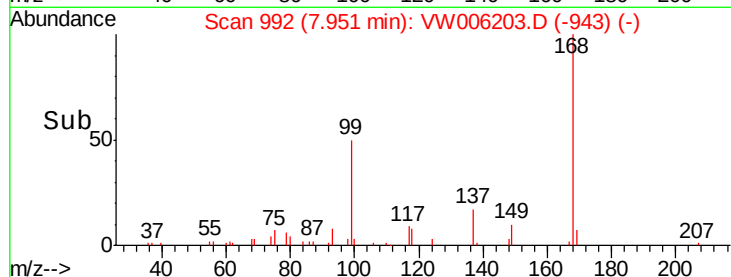
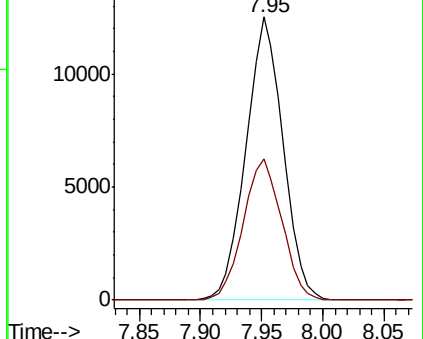
168 100

99 50.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 82.374 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.02 min

Lab File: VW006203.D

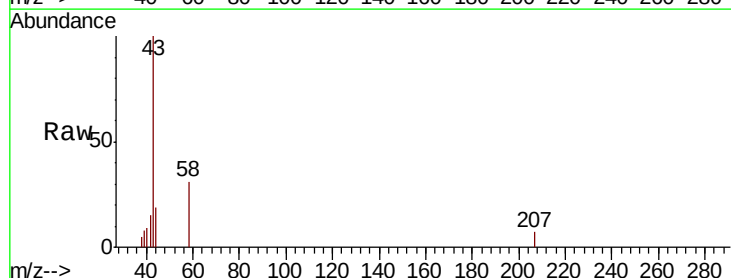
Acq: 19 Oct 2018 05:12

Tgt Ion: 43 Resp: 3791

Ion Ratio Lower Upper

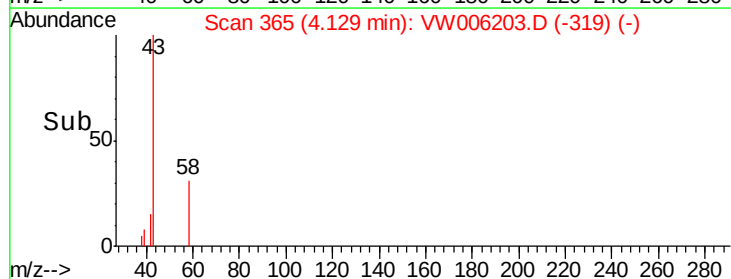
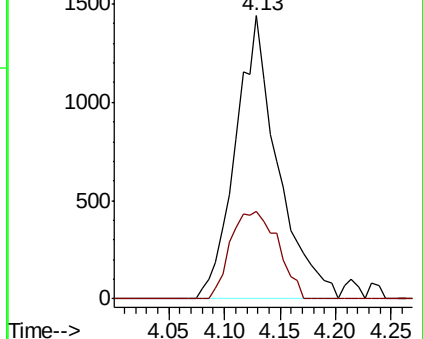
43 100

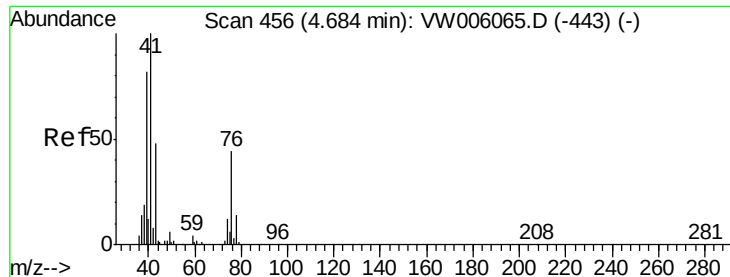
58 30.9 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

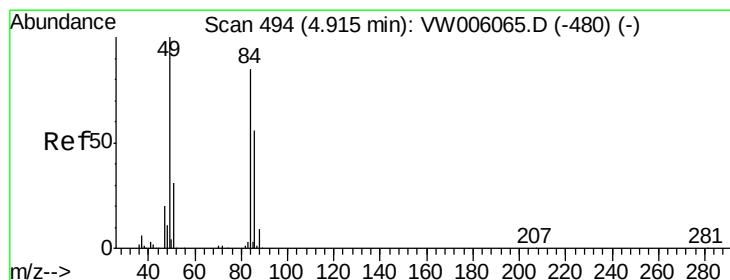
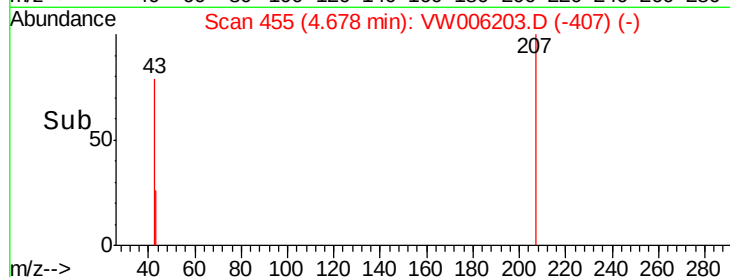
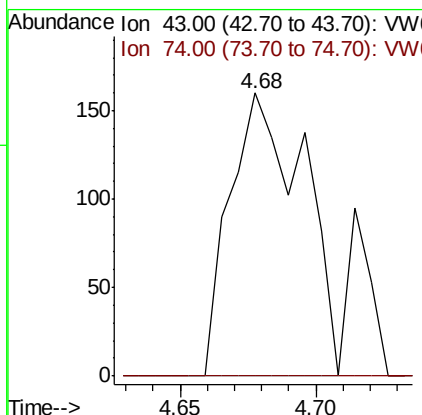
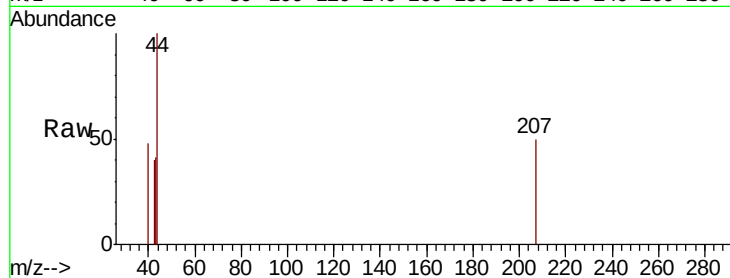




#18  
Methvl Acetate  
Concen: 2.732 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. -0.01 min  
Lab File: VW006203.D  
Acq: 19 Oct 2018 05:12

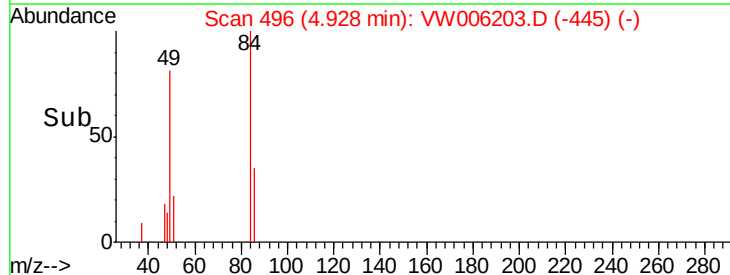
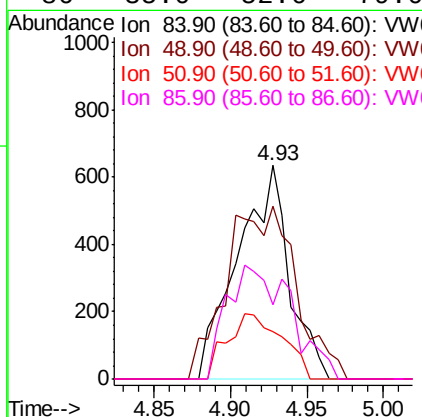
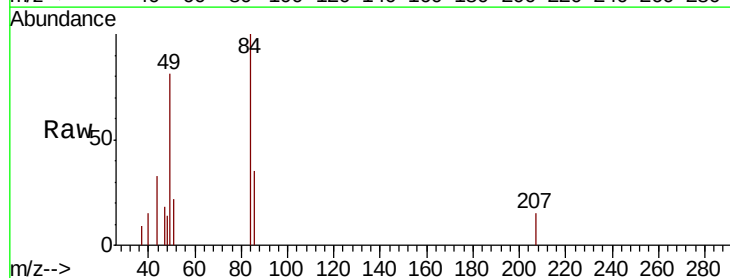
Instrument :  
MSVOA\_W  
ClientSampled :  
LS-SOIL-2

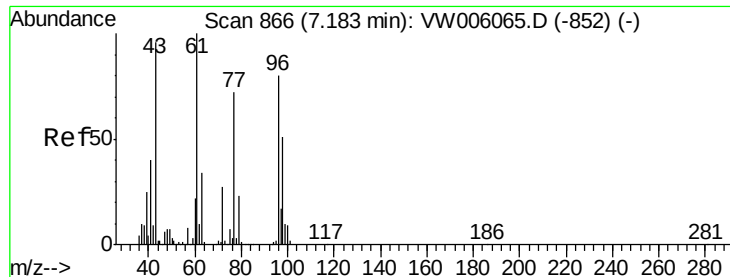
Tot Ion: 43 Resp: 301  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.5 30.7#



#20  
Methylene Chloride  
Concen: 4.988 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW006203.D  
Acq: 19 Oct 2018 05:12

Tgt Ion: 84 Resp: 1495  
Ion Ratio Lower Upper  
84 100  
49 80.8 93.6 140.4#  
51 22.0 29.0 43.4#  
86 35.0 52.6 79.0#





#25

2-Butanone

Concen: 5.985 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.01 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

Instrument :

MSVOA\_W

ClientSampleId :

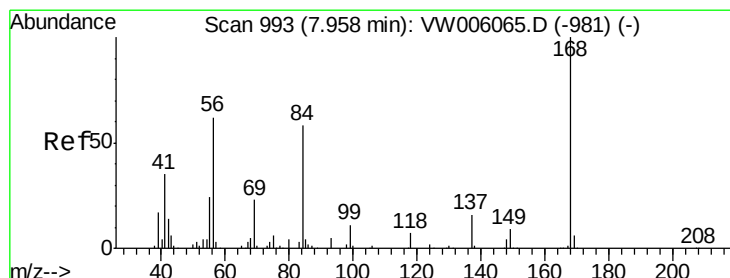
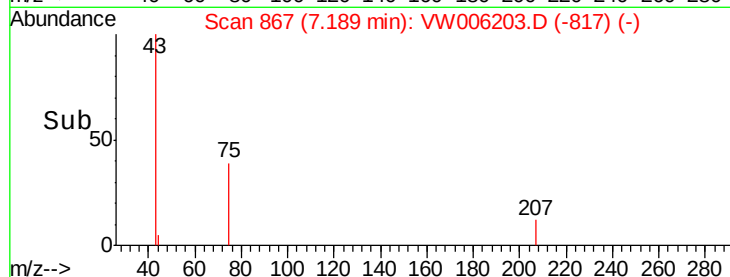
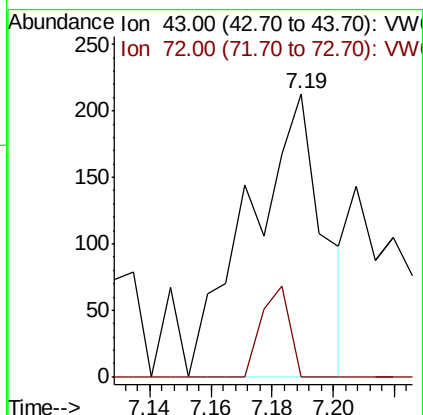
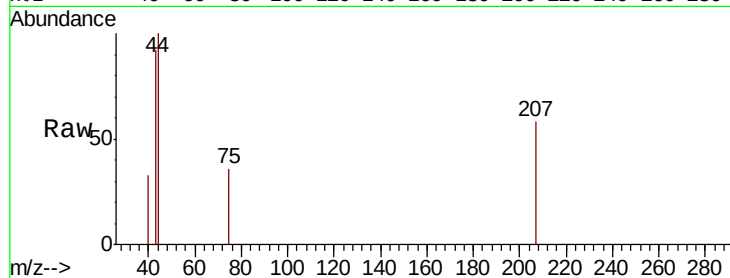
LS-SOIL-2

Tot Ion: 43 Resp: 354

Ion Ratio Lower Upper

43 100

72 0.0 22.8 34.2#



#31

Cyclohexane

Concen: 1.390 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

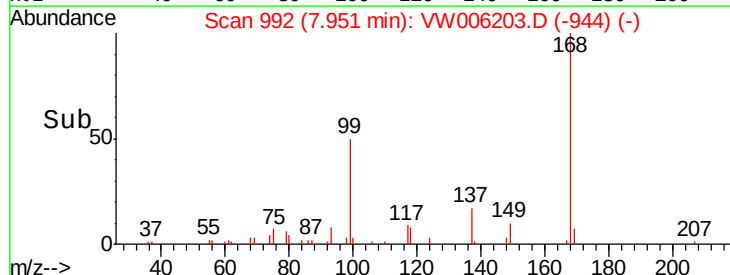
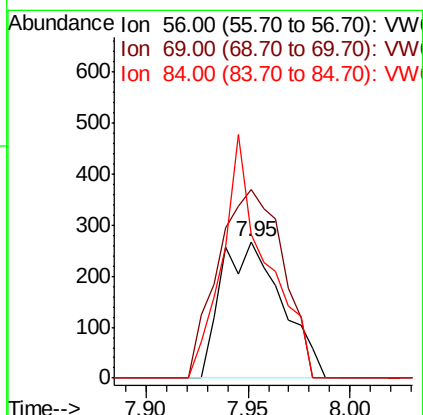
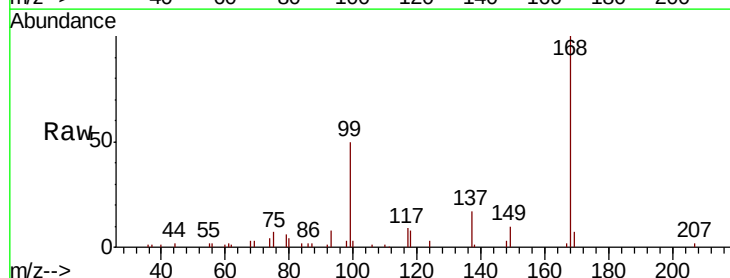
Tgt Ion: 56 Resp: 557

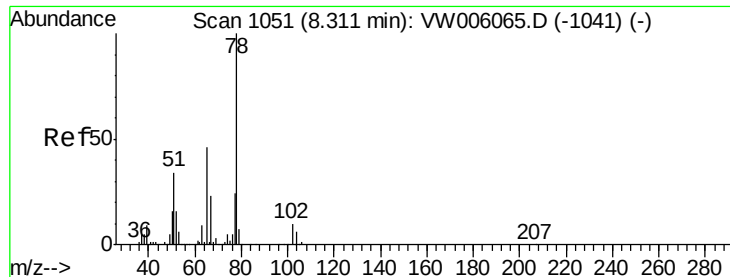
Ion Ratio Lower Upper

56 100

69 138.2 29.4 44.0#

84 105.6 74.0 111.0

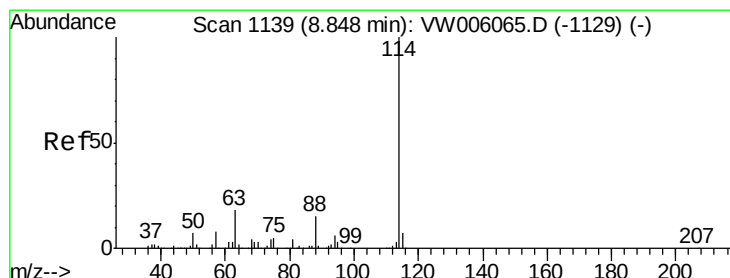
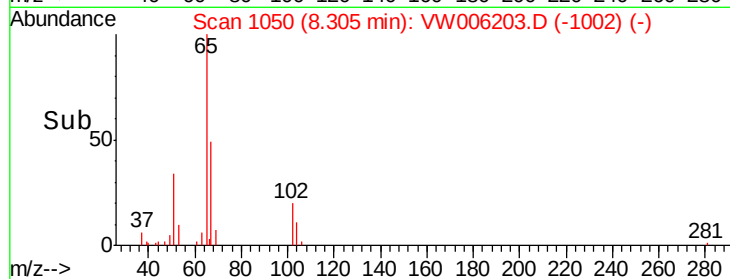
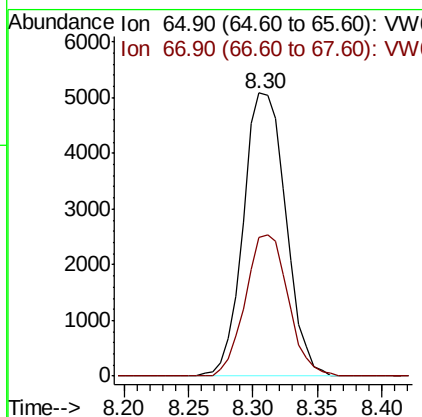
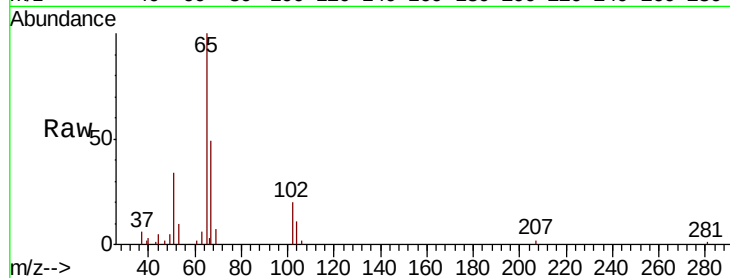




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.077 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.01 min  
 Lab File: VW006203.D  
 Acq: 19 Oct 2018 05:12

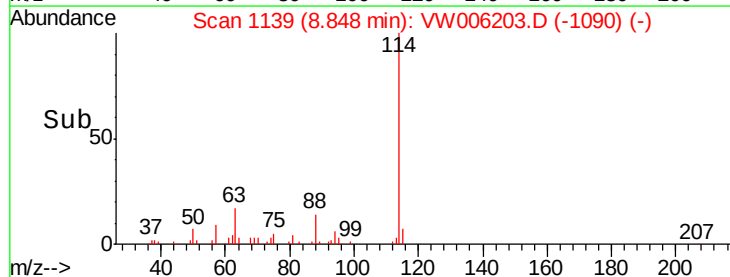
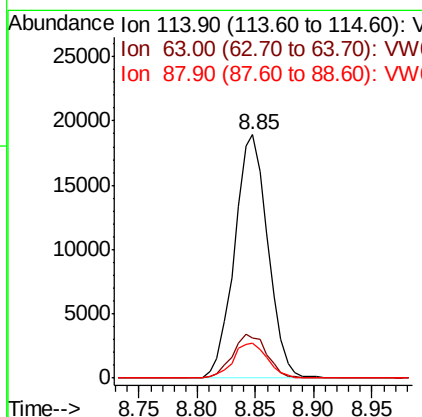
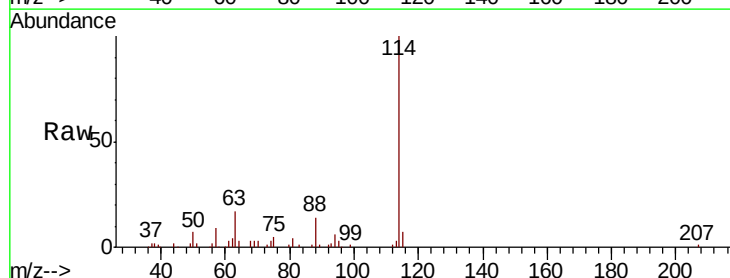
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 LS-SOIL-2

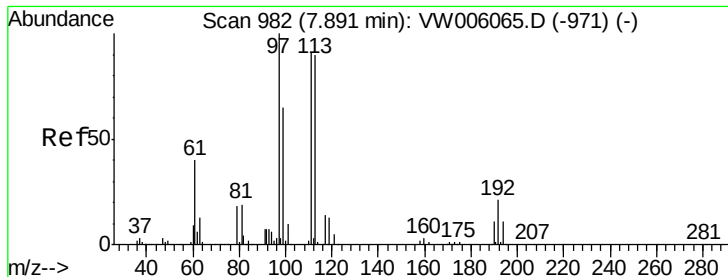
Tot Ion: 65 Resp: 11620  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 0.0 101.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW006203.D  
 Acq: 19 Oct 2018 05:12

Tgt Ion: 114 Resp: 37808  
 Ion Ratio Lower Upper  
 114 100  
 63 16.6 0.0 36.8  
 88 14.4 0.0 29.0





#35

Dibromofluoromethane

Concen: 47.295 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

Instrument :

MSVOA\_W

ClientSampleId :

LS-SOIL-2

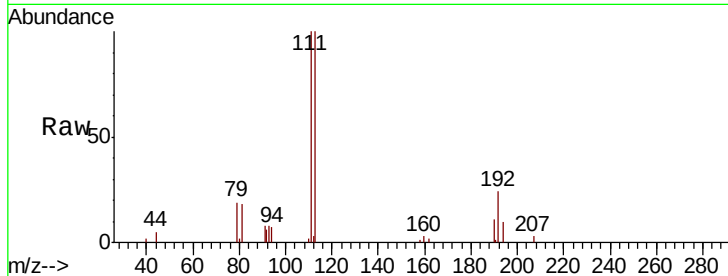
Tot Ion:113 Resp: 10566

Ion Ratio Lower Upper

113 100

111 104.1 81.4 122.0

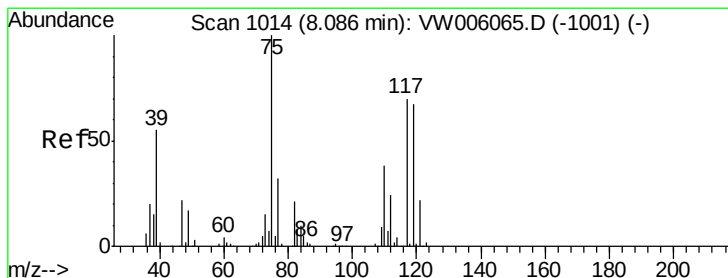
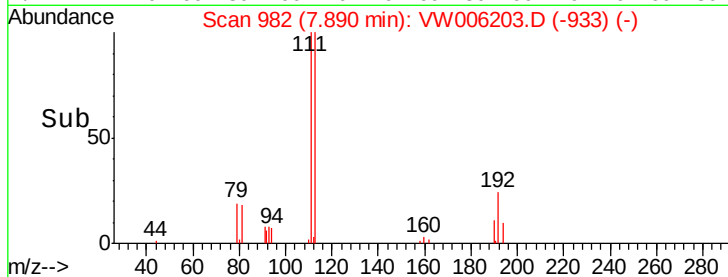
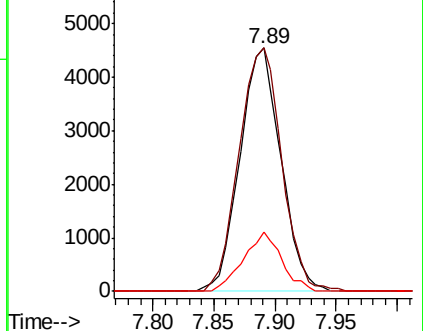
192 22.7 18.7 28.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.669 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

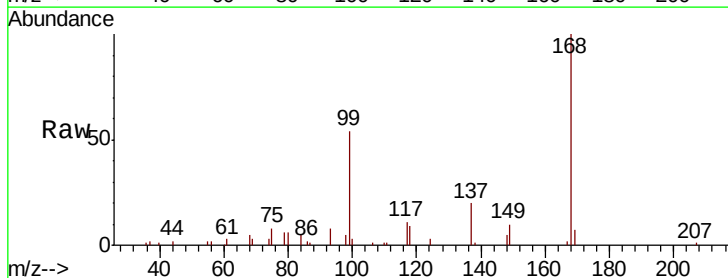
Tgt Ion: 75 Resp: 1627

Ion Ratio Lower Upper

75 100

110 11.0 19.1 57.1#

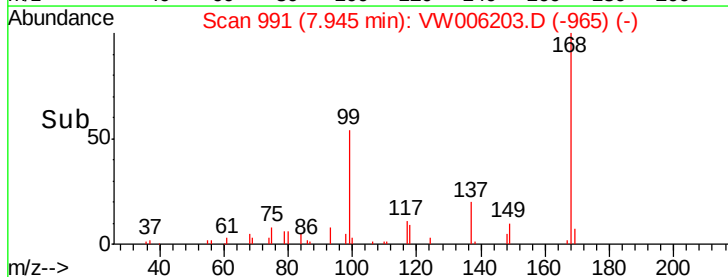
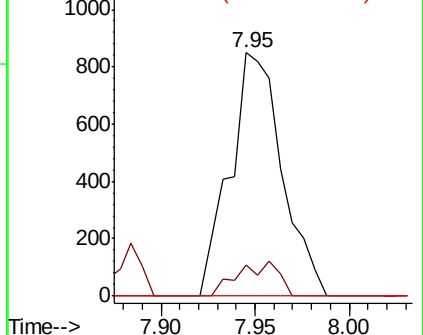
77 0.0 25.0 37.4#

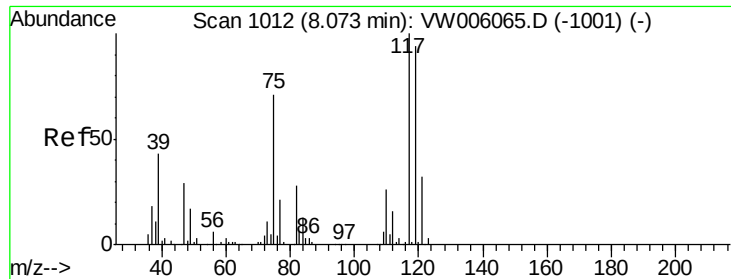


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.604 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

Instrument :

MSVOA\_W

ClientSampled :

LS-SOIL-2

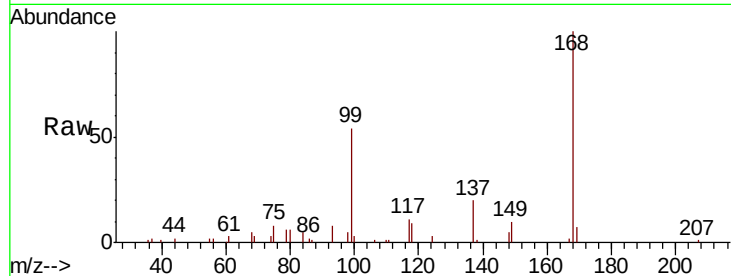
Tot Ion:117 Resp: 2523

Ion Ratio Lower Upper

117 100

119 0.0 75.2 112.8#

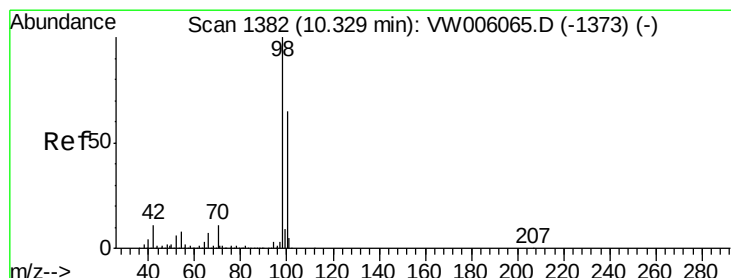
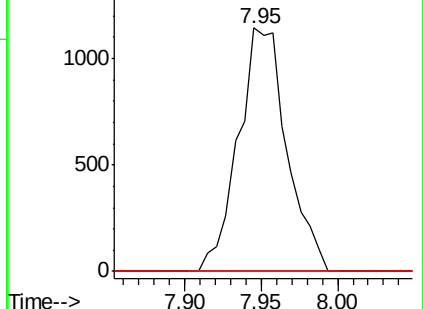
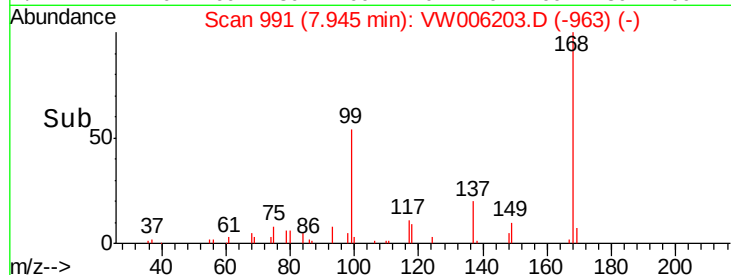
121 0.0 25.3 37.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 44.426 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW006203.D

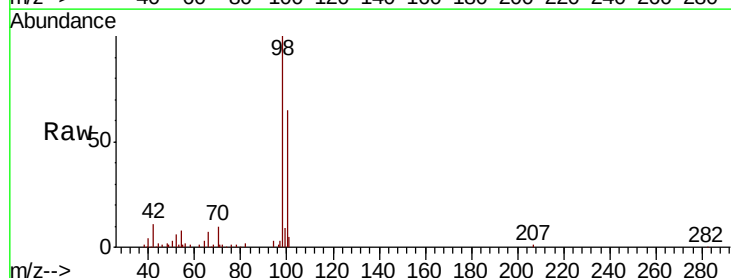
Acq: 19 Oct 2018 05:12

Tgt Ion: 98 Resp: 37760

Ion Ratio Lower Upper

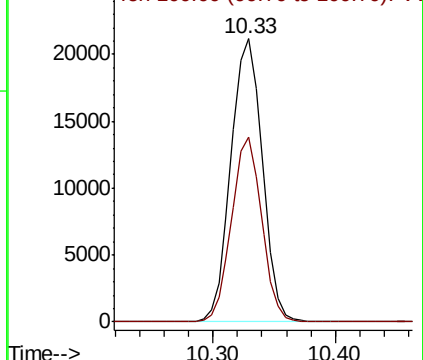
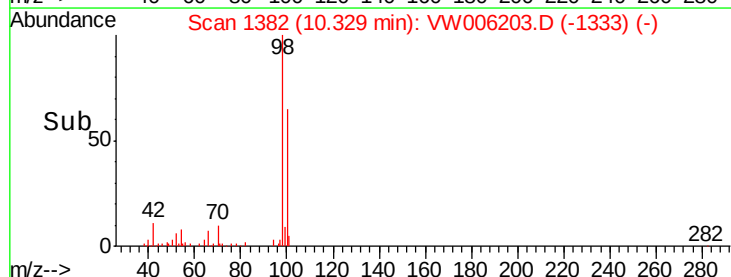
98 100

100 62.4 51.6 77.4

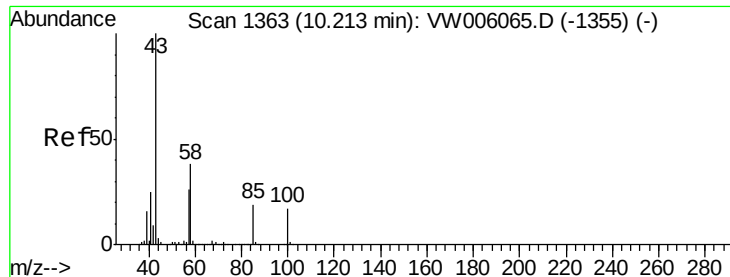


Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW







#51

4-Methyl-2-Pentanone

Concen: 1.606 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.11 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

Instrument :

MSVOA\_W

ClientSampleId :

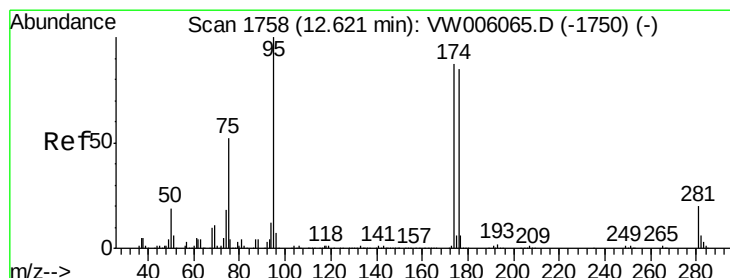
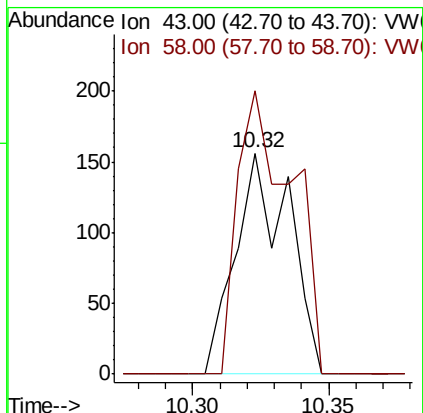
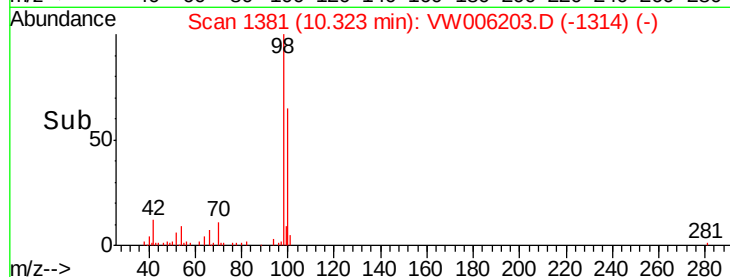
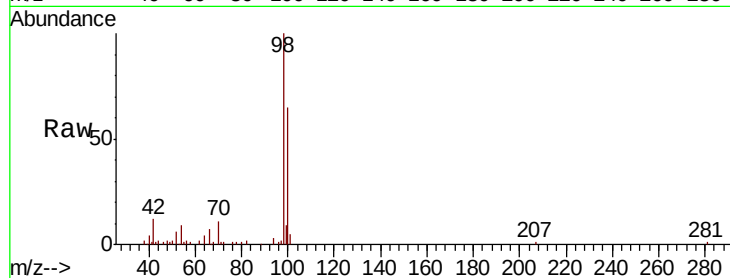
LS-SOIL-2

Tot Ion: 43 Resp: 213

Ion Ratio Lower Upper

43 100

58 130.0 31.5 47.3#



#62

4-Bromofluorobenzene

Concen: 33.418 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

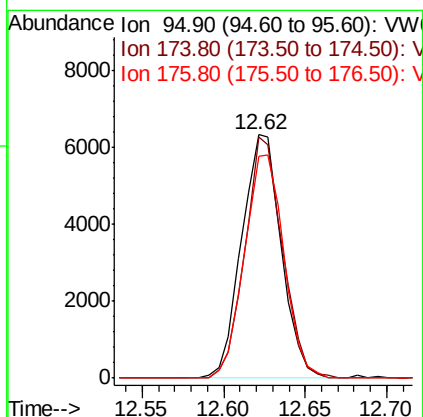
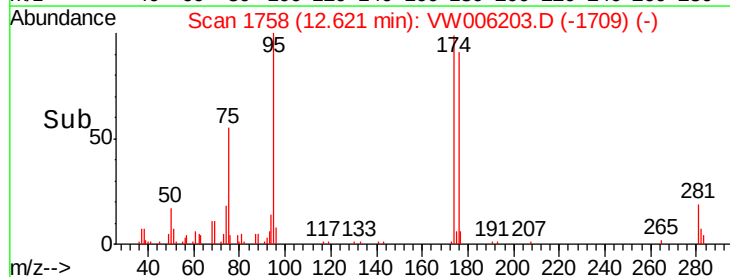
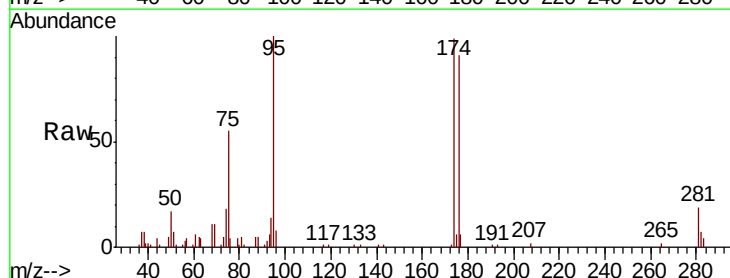
Tgt Ion: 95 Resp: 10668

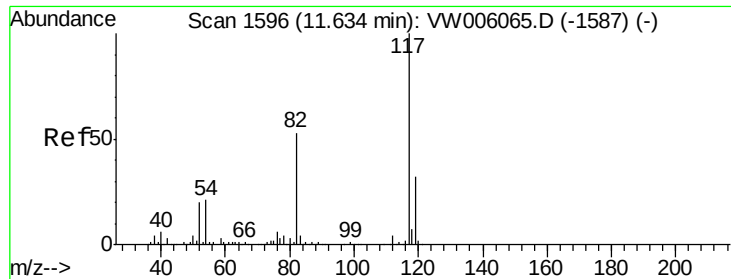
Ion Ratio Lower Upper

95 100

174 93.8 0.0 186.0

176 91.5 0.0 181.6

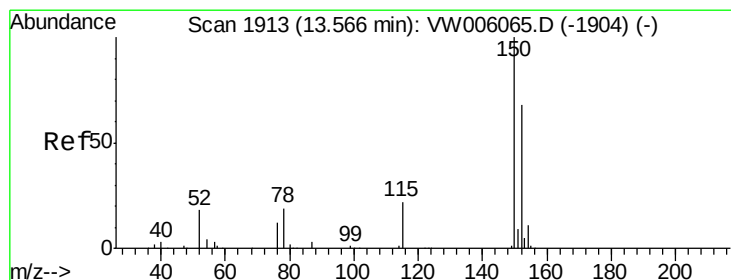
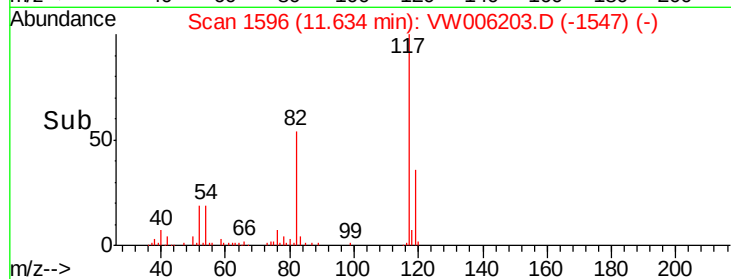
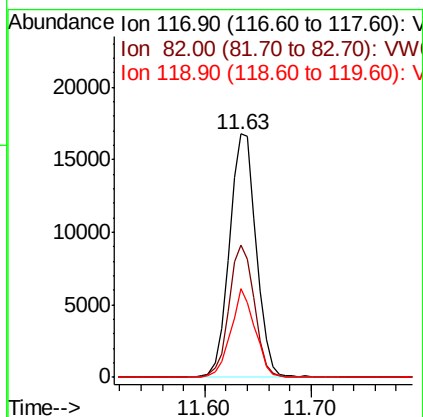
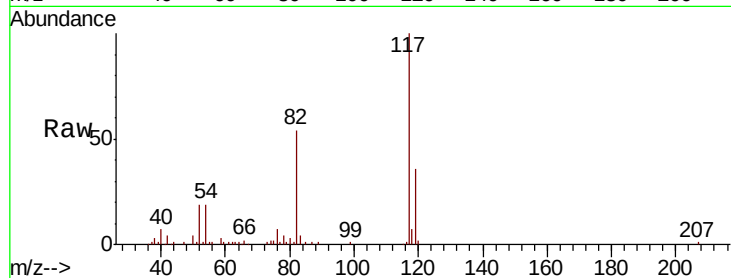




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006203.D  
Acq: 19 Oct 2018 05:12

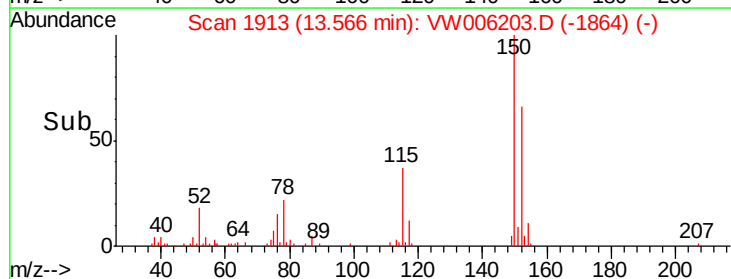
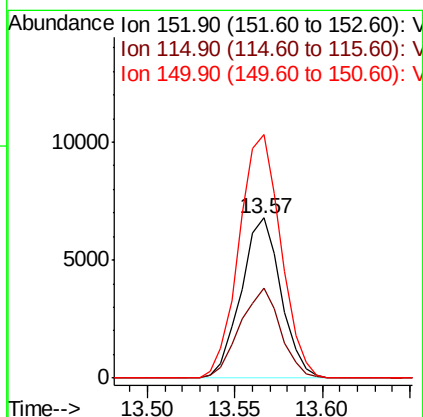
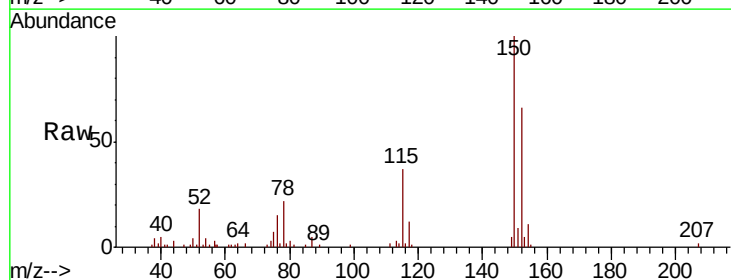
Instrument :  
MSVOA\_W  
ClientSampleId :  
LS-SOIL-2

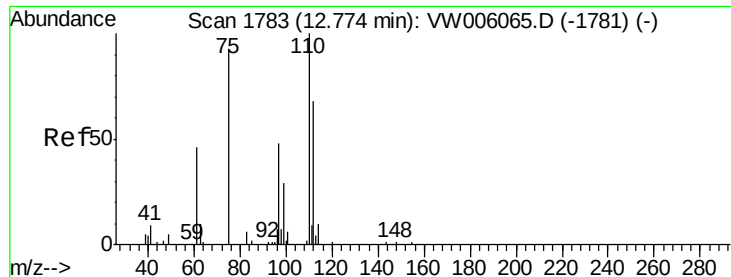
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.4  | 42.1  | 63.1  |
| 119     | 36.2  | 25.8  | 38.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW006203.D  
Acq: 19 Oct 2018 05:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.6  | 27.8  | 83.3  |
| 150     | 159.1 | 0.0   | 349.2 |





#76

1,2,3-Trichloropropane

Concen: 70.119 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

Instrument :

MSVOA\_W

ClientSampleId :

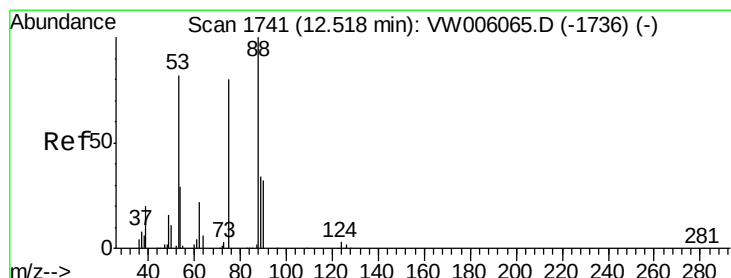
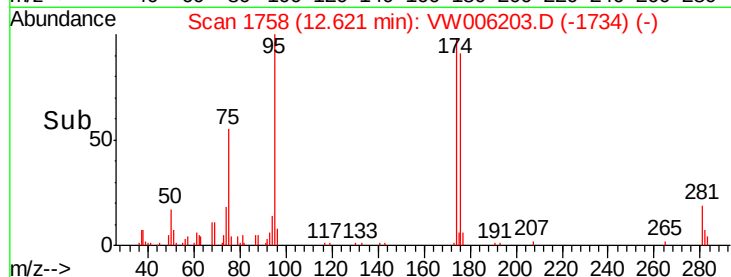
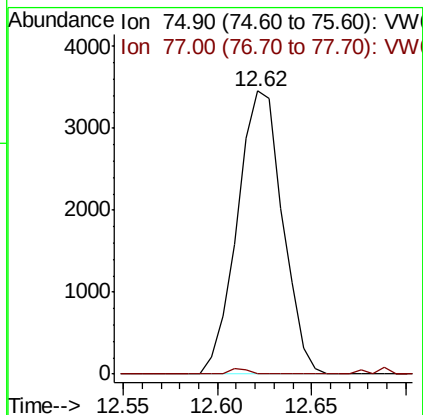
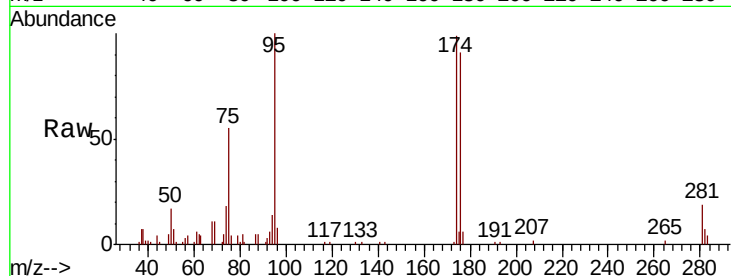
LS-SOIL-2

Tot Ion: 75 Resp: 5751

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 167.613 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

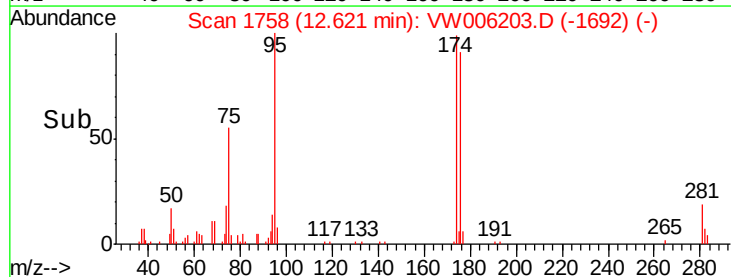
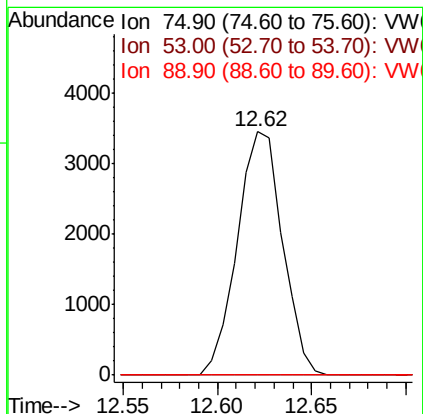
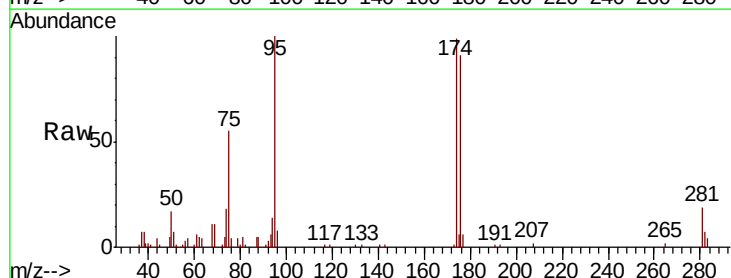
Tgt Ion: 75 Resp: 5751

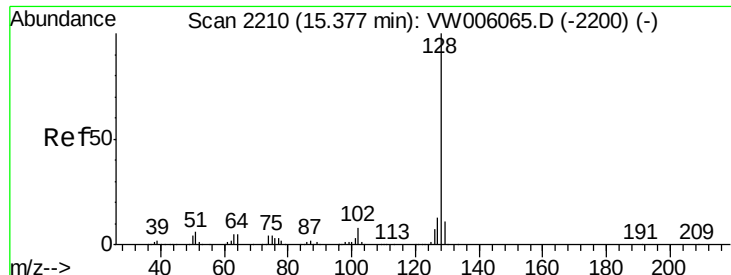
Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 37.5 56.3#





#95

Naphthalene

Concen: 1.149 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW006203.D

Acq: 19 Oct 2018 05:12

Instrument :

MSVOA\_W

ClientSampleId :

LS-SOIL-2

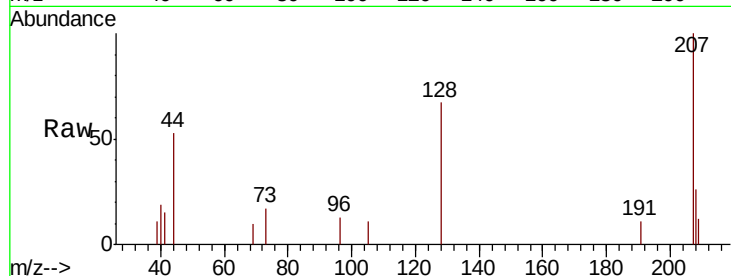
Tot Ion:128 Resp: 485

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 3.9 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

