

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
 Data File : VD062423.D  
 Acq On : 16 May 2019 17:53  
 Operator : FY/SY  
 Sample : K2851-01  
 Misc : 4.85g/5mL/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-COMP

Quant Time: May 17 02:30:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 49174    | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 57995    | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 12728    | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 3139     | 50.00 | ug/l  | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 34239    | 74.92 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 149.84% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 41201    | 85.62 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 171.24% |          |
| 50) Toluene-d8              | 10.41 | 98   | 17682    | 15.24 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 30.48%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 2847     | 6.11  | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 12.22%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.11  | 94   | 202      | 2.581   | ug/l # | 12     |
| 16) Acetone                    | 3.23  | 43   | 9141     | 95.384  | ug/l # | 86     |
| 17) Carbon Disulfide           | 3.38  | 76   | 16178    | 14.999  | ug/l   | 98     |
| 18) Methyl Acetate             | 3.63  | 43   | 532      | 2.817   | ug/l # | 53     |
| 20) Methylene Chloride         | 3.81  | 84   | 3261     | 8.150   | ug/l # | 83     |
| 24) 1,1-Dichloroethane         | 4.99  | 63   | 1598     | 2.283   | ug/l # | 85     |
| 30) Chloroform                 | 6.67  | 83   | 866      | 1.027   | ug/l # | 18     |
| 31) Cyclohexane                | 6.97  | 56   | 2371     | 4.945   | ug/l # | 70     |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 3483     | 7.325   | ug/l # | 40     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 4243     | 6.447   | ug/l # | 12     |
| 39) Methylcyclohexane          | 8.87  | 83   | 2878     | 6.317   | ug/l # | 71     |
| 40) Benzene                    | 7.47  | 78   | 8712     | 8.114   | ug/l # | 79     |
| 43) Isopropyl Acetate          | 9.02  | 43   | 1936     | 6.769   | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.02  | 41   | 1204     | 6.835   | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 10.35 | 43   | 190      | 1.034   | ug/l # | 37     |
| 52) Toluene                    | 10.51 | 92   | 3095     | 4.430   | ug/l   | 84     |
| 55) 1,1,2-Trichloroethane      | 11.10 | 97   | 713      | 2.884   | ug/l # | 16     |
| 59) 2-Hexanone                 | 11.49 | 43   | 1370     | 10.111  | ug/l # | 27     |
| 69) o-Xylene                   | 13.06 | 106  | 178      | 1.326   | ug/l   | 53     |
| 73) Isopropylbenzene           | 13.40 | 105  | 450      | 2.392   | ug/l # | 51     |
| 74) N-amyl acetate             | 13.22 | 43   | 1246     | 25.257  | ug/l # | 50     |
| 76) 1,2,3-Trichloropropane     | 13.55 | 75   | 1077     | 28.870  | ug/l # | 42     |
| 78) n-propylbenzene            | 13.78 | 91   | 2415     | 10.759  | ug/l   | 97     |
| 79) 2-Chlorotoluene            | 13.78 | 91   | 2415     | 18.787  | ug/l # | 38     |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 371      | 2.341   | ug/l # | 29     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 1077     | 102.267 | ug/l # | 16     |
| 82) 4-Chlorotoluene            | 13.98 | 91   | 292      | 1.930   | ug/l # | 37     |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 861      | 5.415   | ug/l   | 78     |
| 85) sec-Butylbenzene           | 14.37 | 105  | 1303     | 6.673   | ug/l # | 60     |
| 86) p-Isopropyltoluene         | 14.48 | 119  | 194      | 1.112   | ug/l # | 52     |
| 89) n-Butylbenzene             | 14.80 | 91   | 2851     | 18.207  | ug/l   | 96     |
| 90) Hexachloroethane           | 15.06 | 117  | 538      | 11.340  | ug/l # | 20     |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 216      | 2.726   | ug/l # | 25     |
| 93) 1,2,4-Trichlorobenzene     | 15.95 | 180  | 344      | 5.964   | ug/l # | 84     |

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Acq On : 16 May 2019 17:53  
Operator : FY/SY  
Sample : K2851-01  
Misc : 4.85g/5mL/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

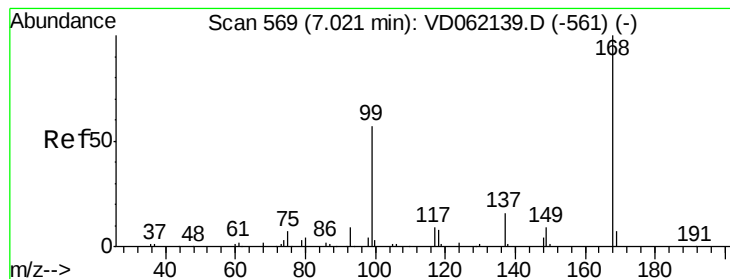
Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-COMP

Quant Time: May 17 02:30:25 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 95) Naphthalene            | 16.13 | 128  | 2413     | 29.965 | ug/l # | 70       |
| 96) 1,2,3-Trichlorobenzene | 16.28 | 180  | 273      | 7.528  | ug/l # | 13       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

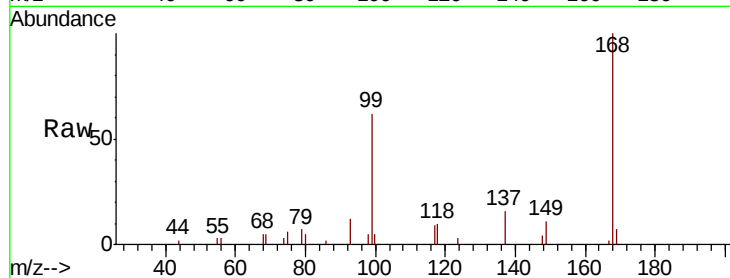
SOIL-COMP

Tot Ion:168 Resp: 49174

Ion Ratio Lower Upper

168 100

99 61.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

20000

15000

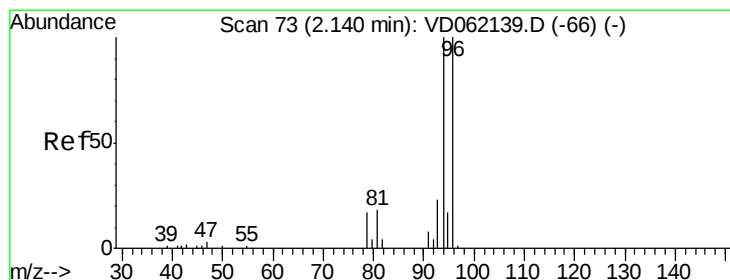
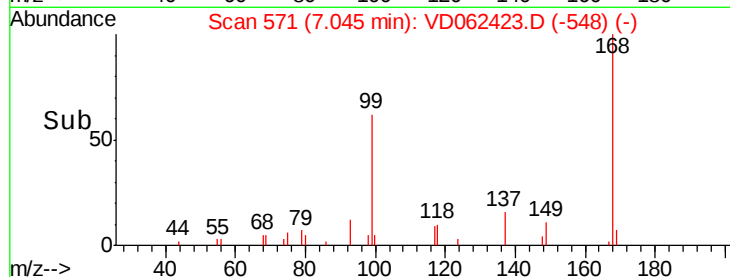
10000

5000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 2.581 ug/l

RT: 2.11 min Scan# 70

Delta R.T. -0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

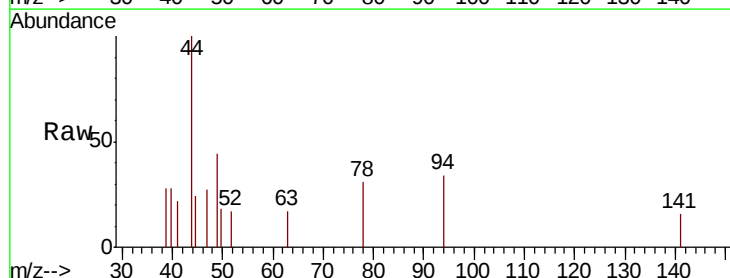
Tgt Ion: 94 Resp: 202

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): V

Ion 96.00 (95.70 to 96.70): V

Ion 93.00 (92.70 to 93.70): V

800

600

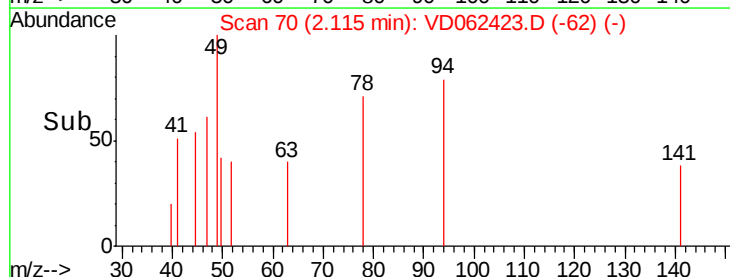
400

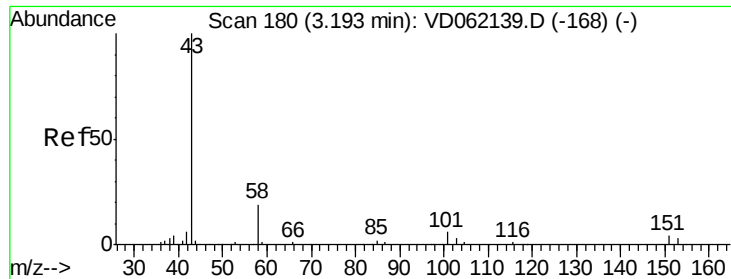
200

0

Time-->

2.10 2.11 2.12 2.13





#16

Acetone

Concen: 95.384 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

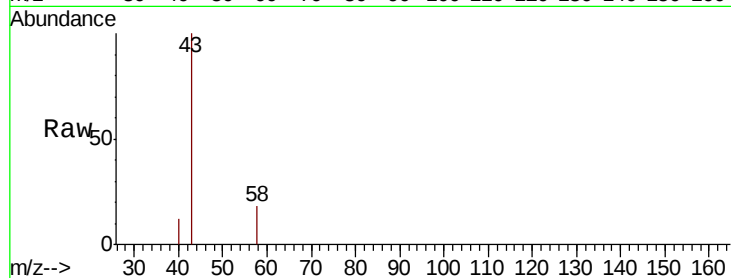
SOIL-COMP

Tot Ion: 43 Resp: 9141

Ion Ratio Lower Upper

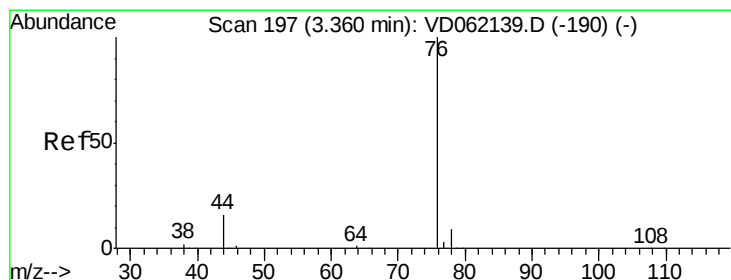
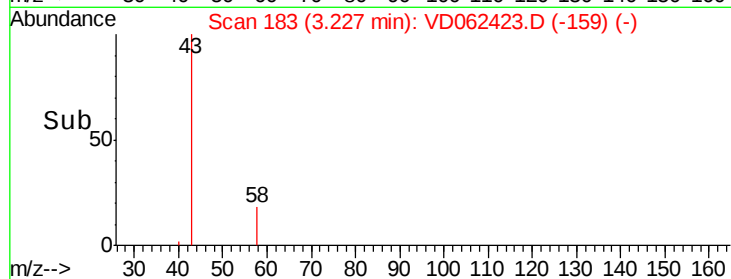
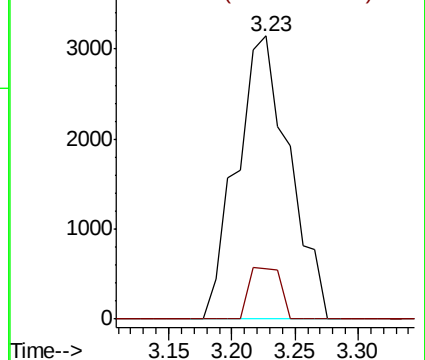
43 100

58 17.7 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 14.999 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.02 min

Lab File: VD062423.D

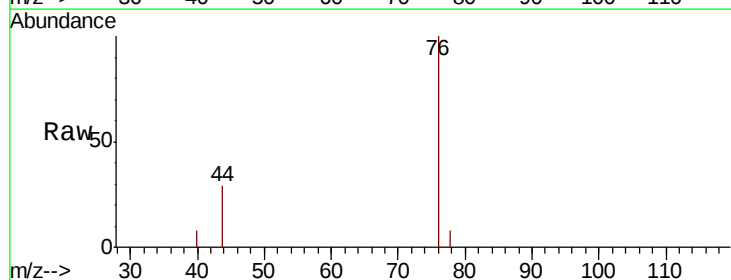
Acq: 16 May 2019 17:53

Tgt Ion: 76 Resp: 16178

Ion Ratio Lower Upper

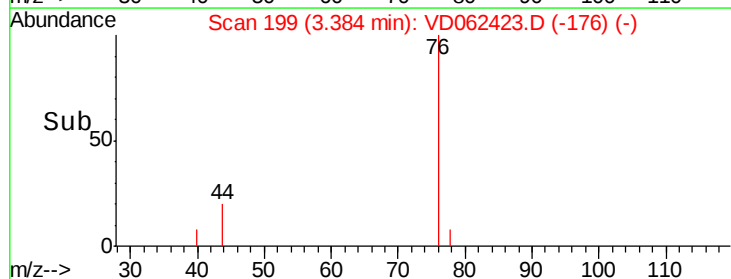
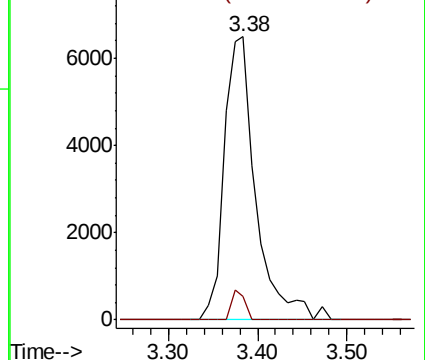
76 100

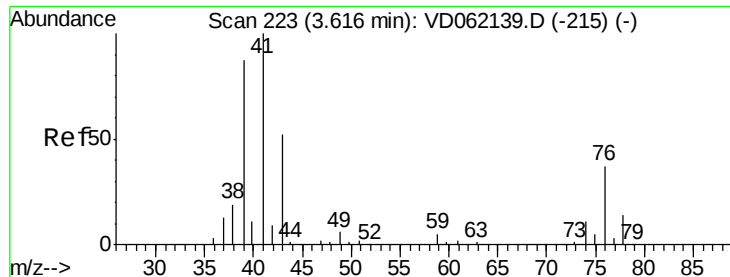
78 8.3 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC





#18

Methyl Acetate

Concen: 2.817 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

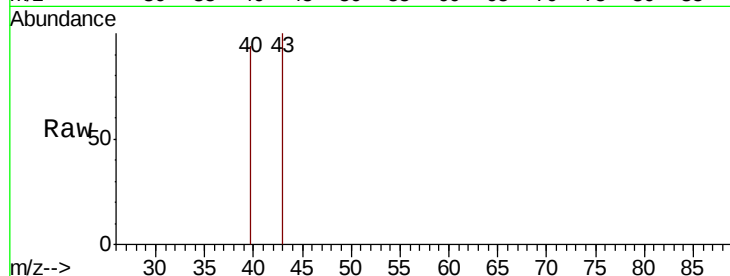
SOIL-COMP

Tot Ion: 43 Resp: 532

Ion Ratio Lower Upper

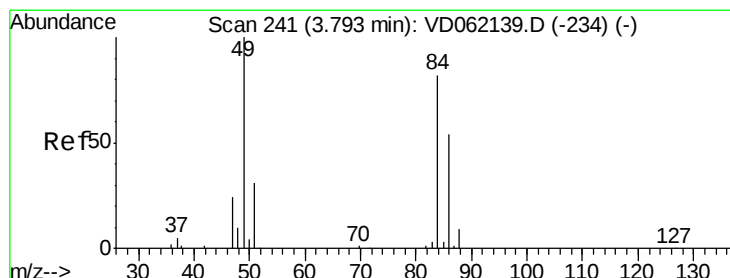
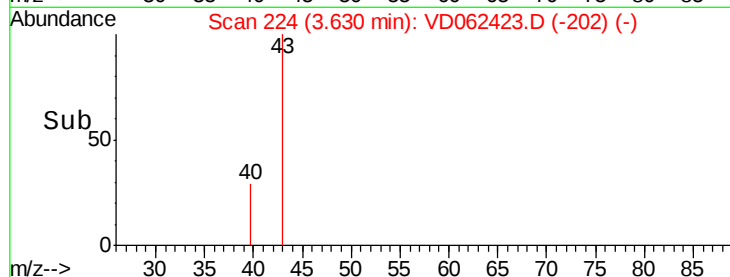
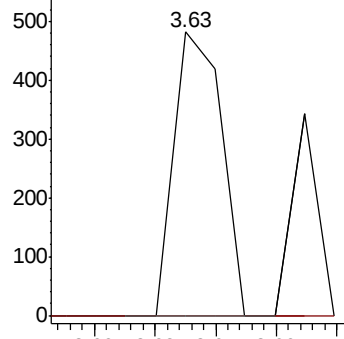
43 100

74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methylene Chloride

Concen: 8.150 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Tgt Ion: 84 Resp: 3261

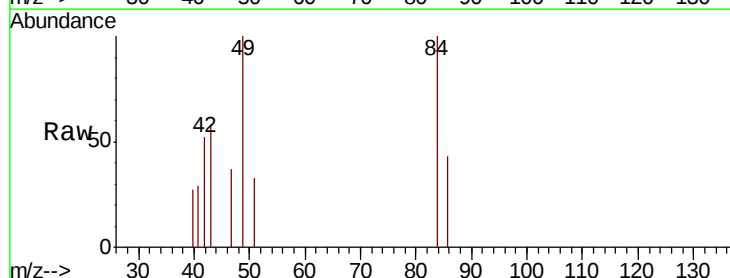
Ion Ratio Lower Upper

84 100

49 99.9 94.0 141.0

51 32.7 29.0 43.4

86 42.5 49.8 74.6#

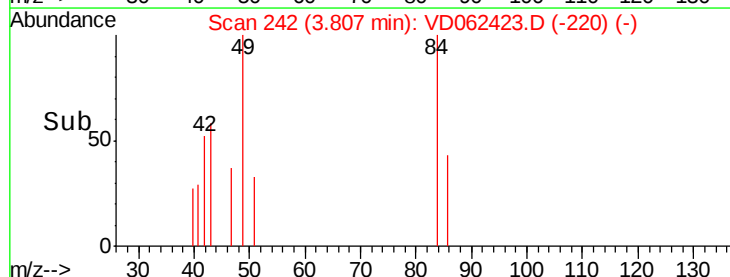
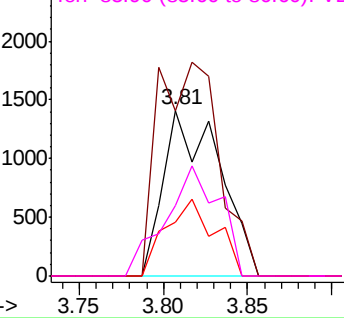


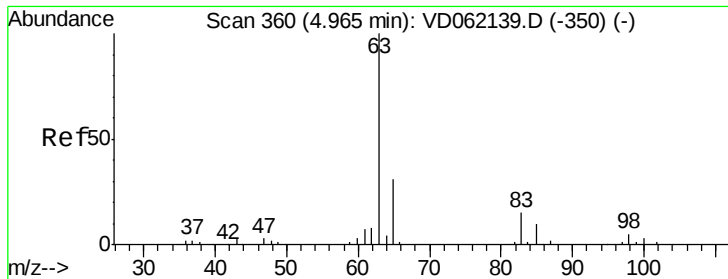
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#24

1,1-Dichloroethane

Concen: 2.283 ug/l

RT: 4.99 min Scan# 362

Delta R.T. 0.02 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

SOIL-COMP

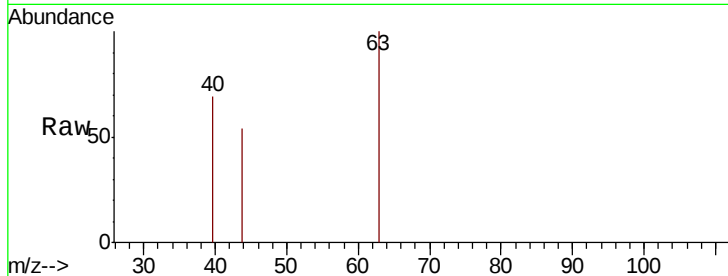
Tot Ion: 63 Resp: 1598

Ion Ratio Lower Upper

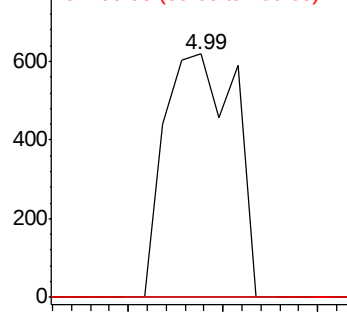
63 100

98 0.0 2.8 8.4#

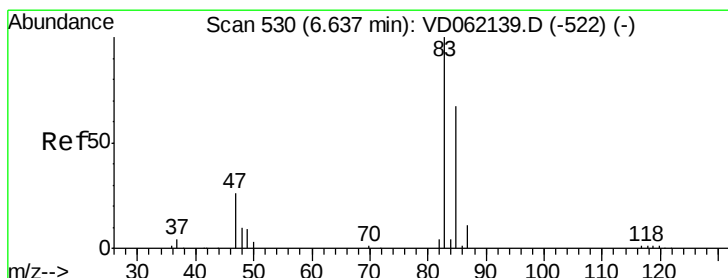
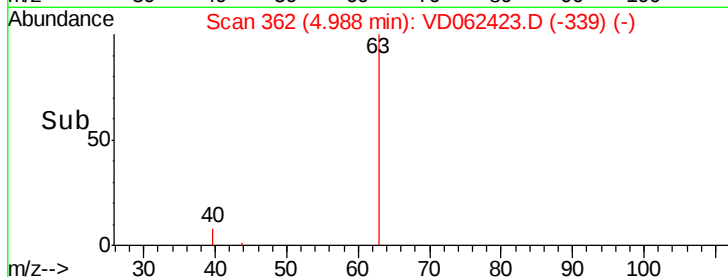
100 0.0 1.8 5.5#



Abundance Ion 62.95 (62.65 to 63.65): VDC  
Ion 97.95 (97.65 to 98.65): VDC  
Ion 99.95 (99.65 to 100.65): VDC



Time-->



#30

Chloroform

Concen: 1.027 ug/l

RT: 6.67 min Scan# 533

Delta R.T. 0.03 min

Lab File: VD062423.D

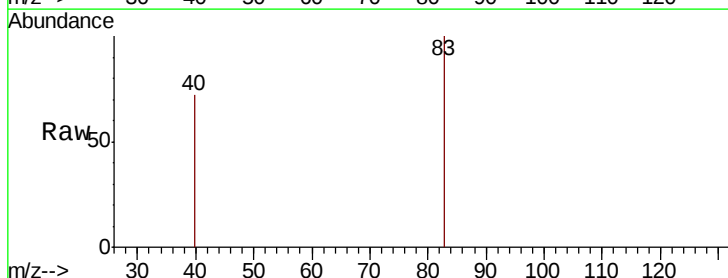
Acq: 16 May 2019 17:53

Tgt Ion: 83 Resp: 866

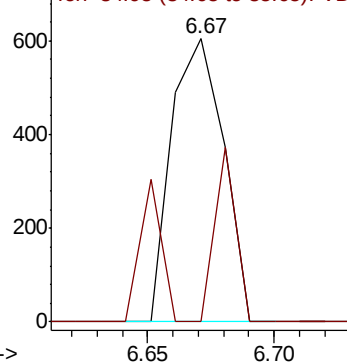
Ion Ratio Lower Upper

83 100

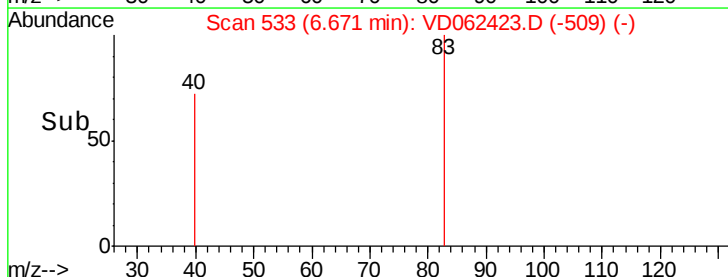
85 0.0 51.7 77.5#

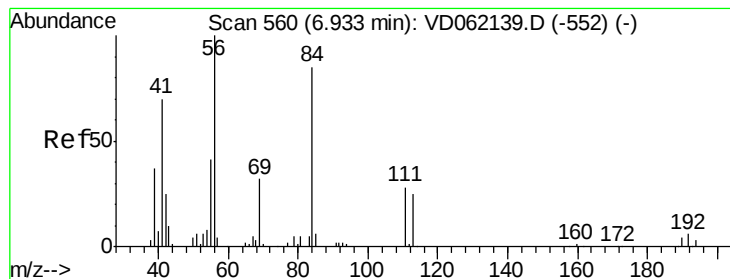


Abundance Ion 82.95 (82.65 to 83.65): VDC  
Ion 84.95 (84.65 to 85.65): VDC



Time-->





#31

Cvclohexane

Concen: 4.945 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

SOIL-COMP

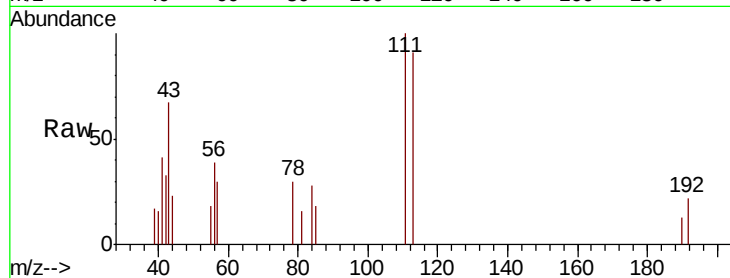
Tot Ion: 56 Resp: 2371

Ion Ratio Lower Upper

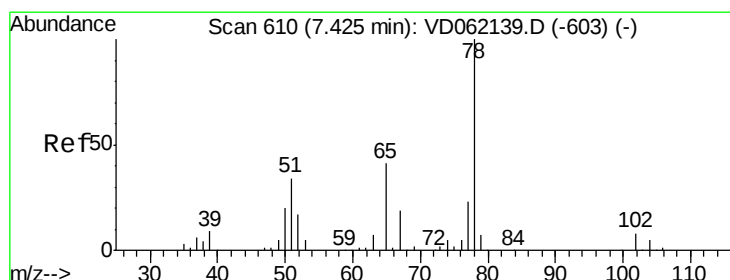
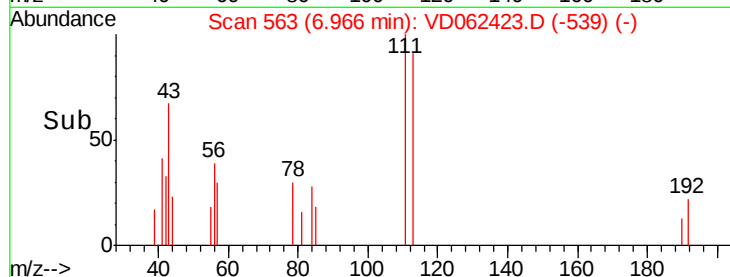
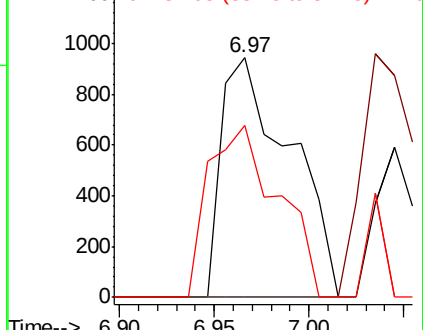
56 100

69 0.0 25.8 38.6#

84 71.6 72.2 108.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 74.924 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062423.D

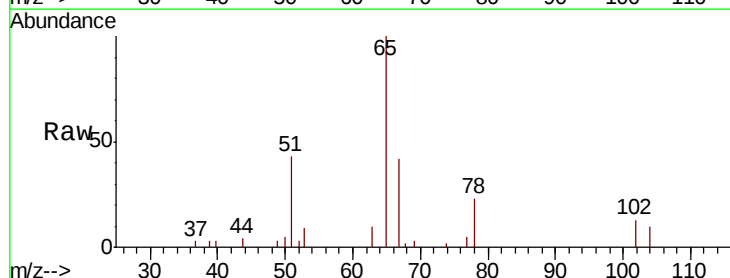
Acq: 16 May 2019 17:53

Tgt Ion: 65 Resp: 34239

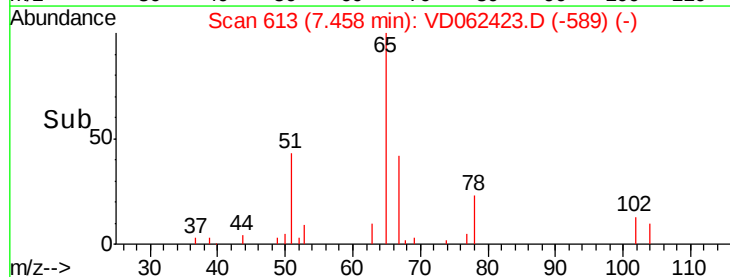
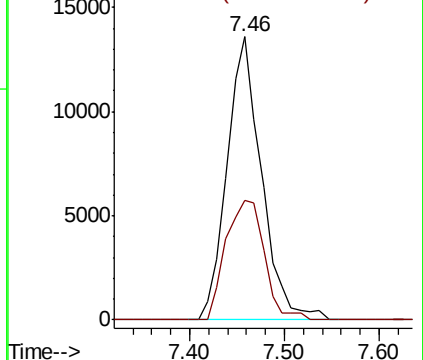
Ion Ratio Lower Upper

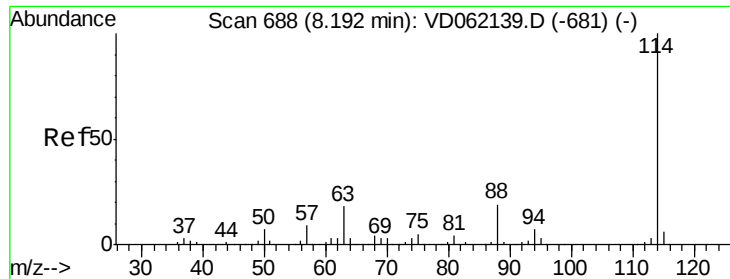
65 100

67 42.2 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

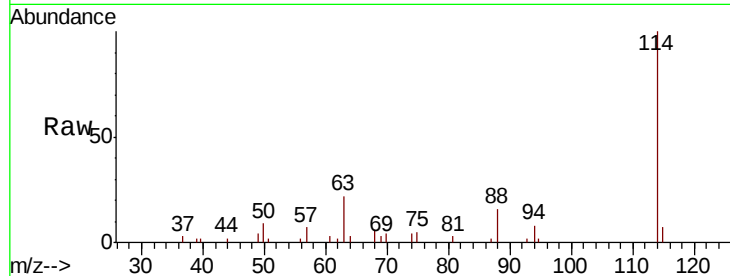




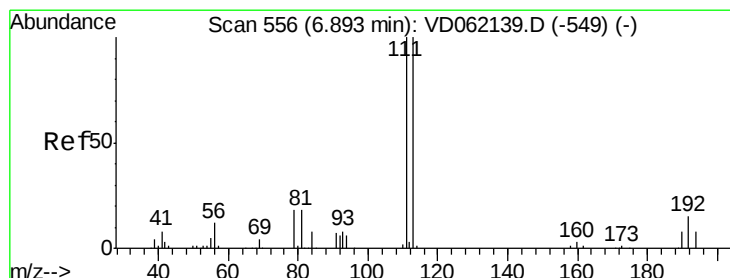
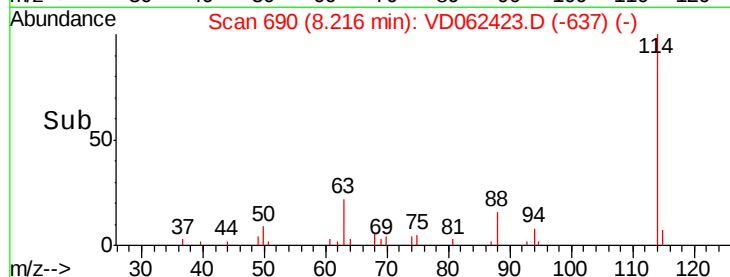
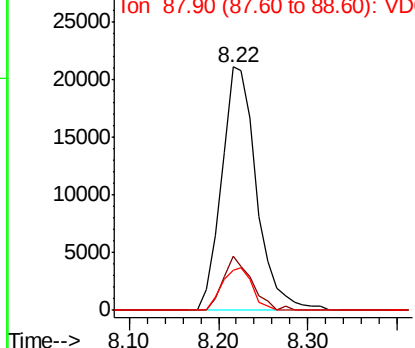
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.22 min Scan# 690  
Delta R.T. 0.02 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-COMP

Tot Ion:114 Resp: 57995  
Ion Ratio Lower Upper  
114 100  
63 22.2 0.0 32.4  
88 16.2 0.0 33.6

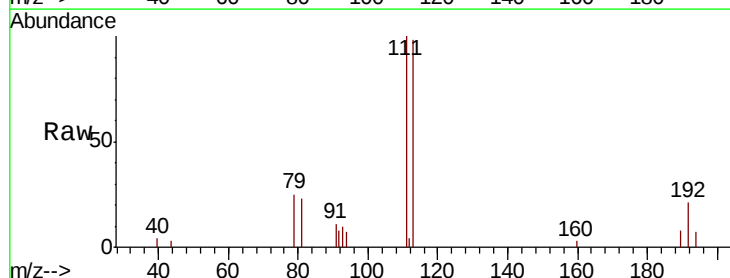


Abundance Ion 114.00 (113.70 to 114.70): V  
Ion 62.95 (62.65 to 63.65): V  
Ion 87.90 (87.60 to 88.60): V

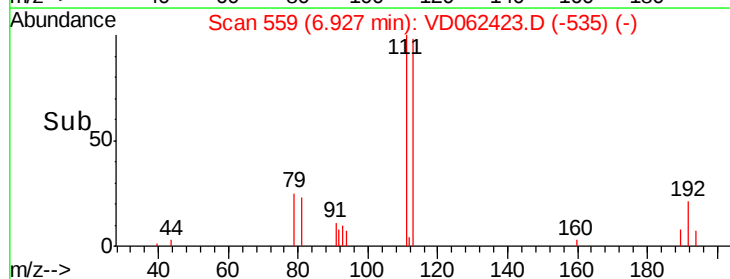
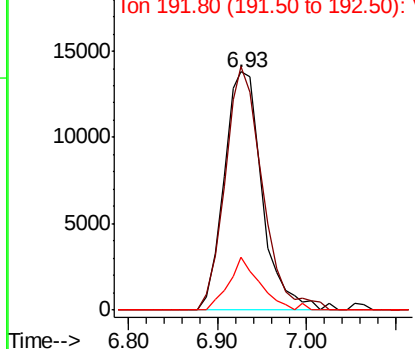


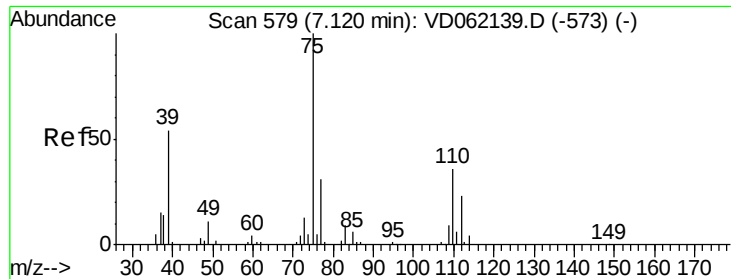
#35  
Dibromofluoromethane  
Concen: 85.623 ug/l  
RT: 6.93 min Scan# 559  
Delta R.T. 0.03 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

Tgt Ion:113 Resp: 41201  
Ion Ratio Lower Upper  
113 100  
111 102.3 78.5 117.7  
192 22.0 13.0 19.4#



Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V

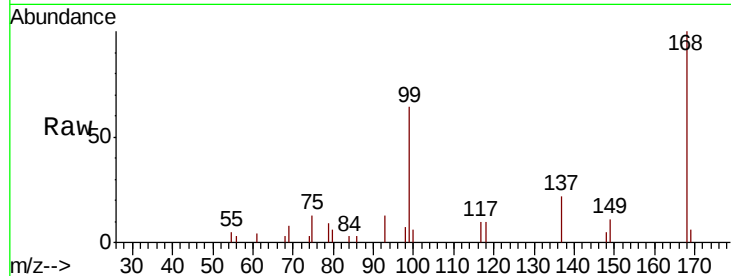




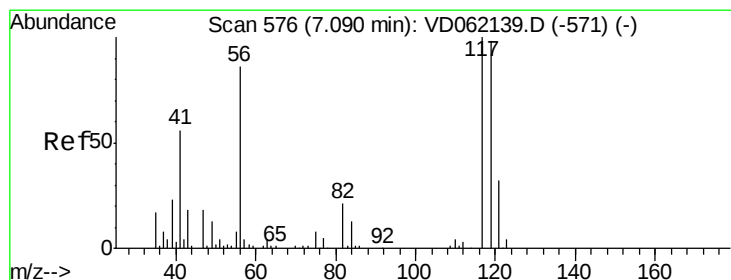
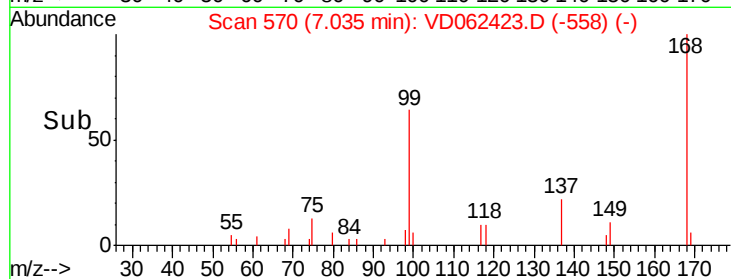
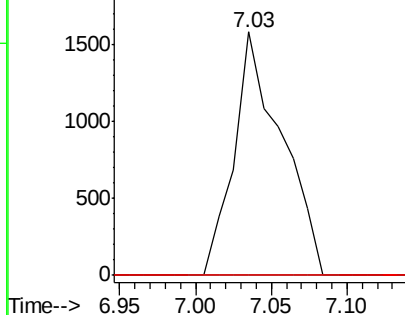
#36  
 1,1-Dichloropropene  
 Concen: 7.325 ug/l  
 RT: 7.03 min Scan# 570  
 Delta R.T. -0.08 min  
 Lab File: VD062423.D  
 Acq: 16 May 2019 17:53

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-COMP

Tot Ion: 75 Resp: 3483  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 19.1 57.1#  
 77 0.0 25.6 38.4#

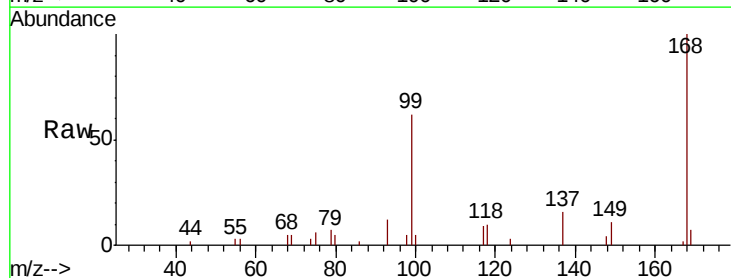


Abundance Ion 75.00 (74.70 to 75.70): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.95 (76.65 to 77.65): V

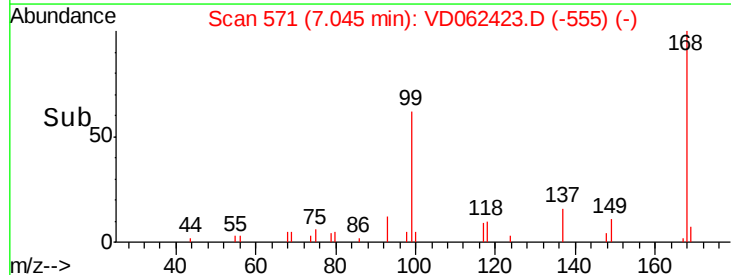
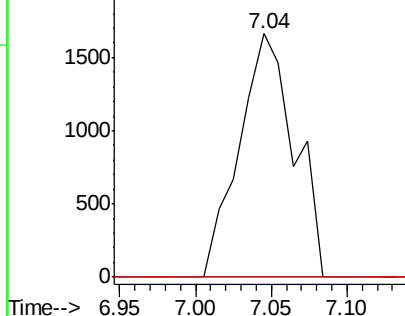


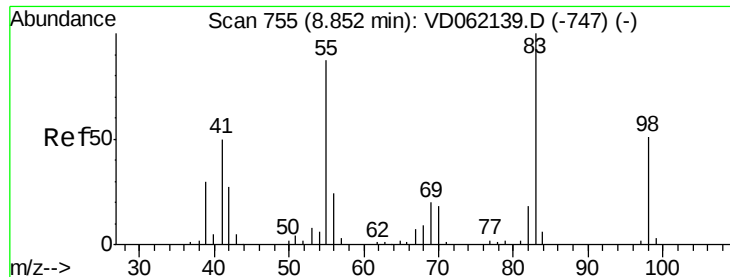
#38  
 Carbon Tetrachloride  
 Concen: 6.447 ug/l  
 RT: 7.04 min Scan# 571  
 Delta R.T. -0.05 min  
 Lab File: VD062423.D  
 Acq: 16 May 2019 17:53

Tgt Ion: 117 Resp: 4243  
 Ion Ratio Lower Upper  
 117 100  
 119 0.0 75.8 113.8#  
 121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V  
 Ion 118.85 (118.55 to 119.55): V  
 Ion 120.85 (120.55 to 121.55): V

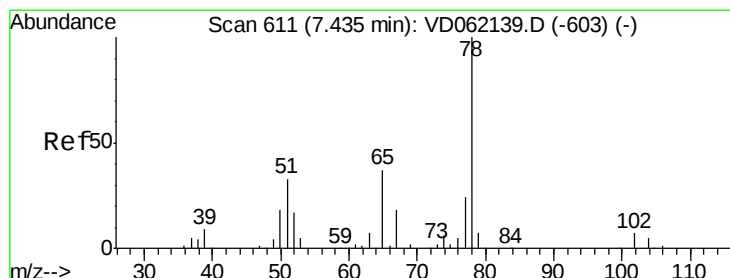
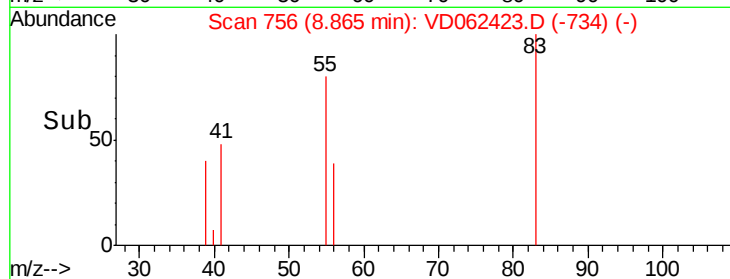
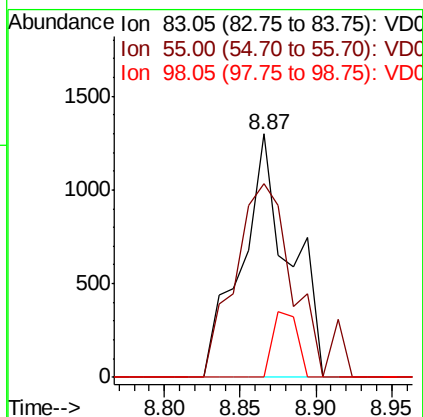
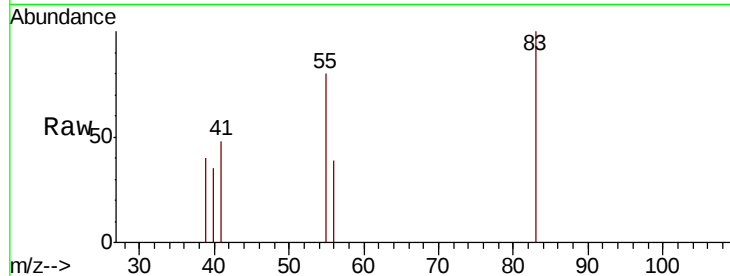




#39  
Methvlcvclohexane  
Concen: 6.317 ug/l  
RT: 8.87 min Scan# 756  
Delta R.T. 0.01 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

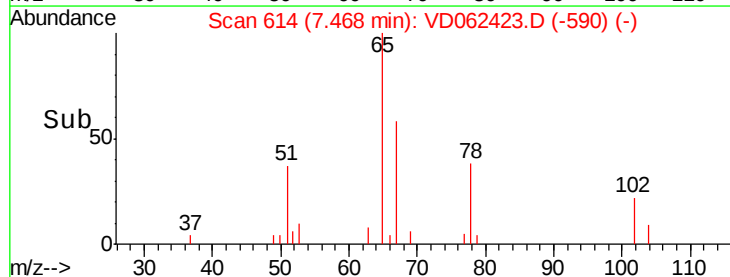
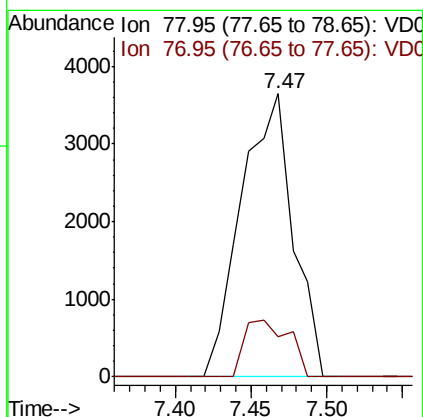
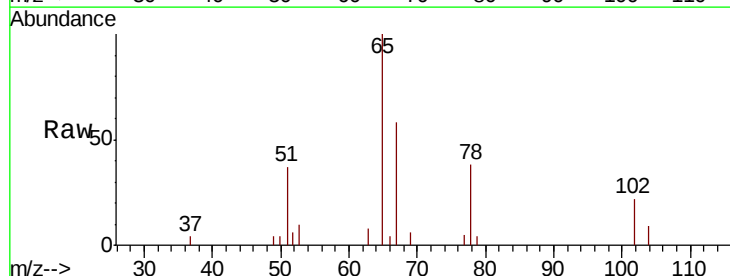
Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-COMP

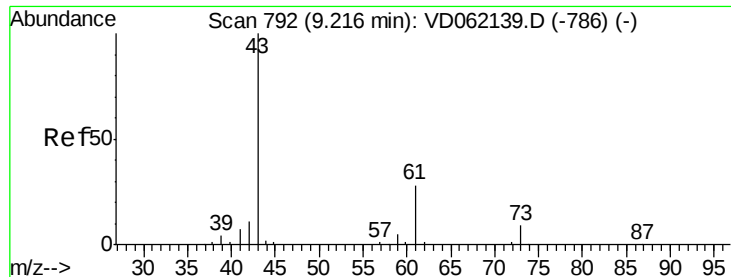
Tot Ion: 83 Resp: 2878  
Ion Ratio Lower Upper  
83 100  
55 79.7 68.2 102.4  
98 0.0 38.2 57.4#



#40  
Benzene  
Concen: 8.114 ug/l  
RT: 7.47 min Scan# 614  
Delta R.T. 0.03 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

Tgt Ion: 78 Resp: 8712  
Ion Ratio Lower Upper  
78 100  
77 14.2 19.7 29.5#





#43

Isopropyl Acetate

Concen: 6.769 ug/l

RT: 9.02 min Scan# 772

Delta R.T. -0.19 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

SOIL-COMP

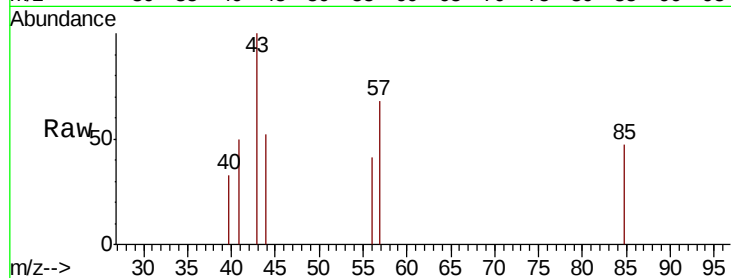
Tot Ion: 43 Resp: 1936

Ion Ratio Lower Upper

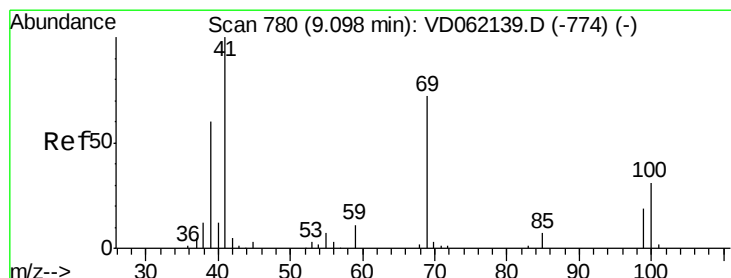
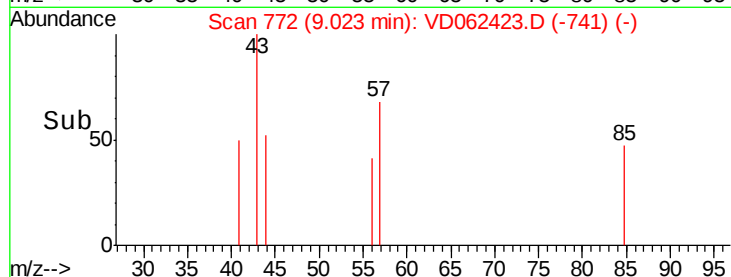
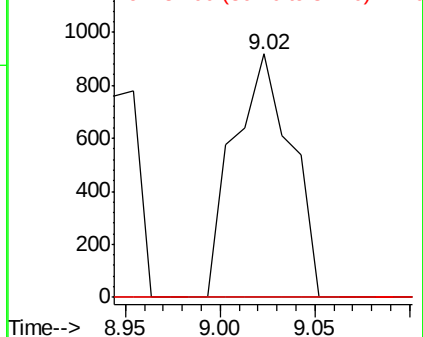
43 100

61 0.0 25.1 37.7#

87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 87.00 (86.70 to 87.70): VDC



#48

Methyl methacrylate

Concen: 6.835 ug/l

RT: 9.02 min Scan# 772

Delta R.T. -0.07 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

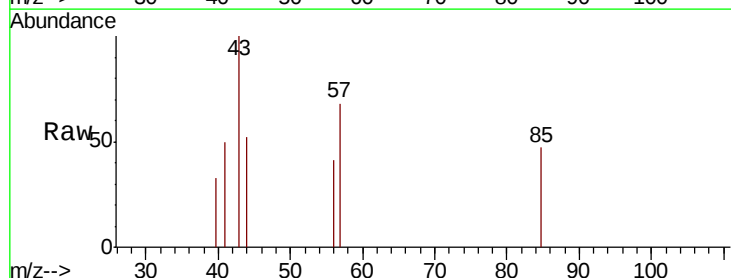
Tgt Ion: 41 Resp: 1204

Ion Ratio Lower Upper

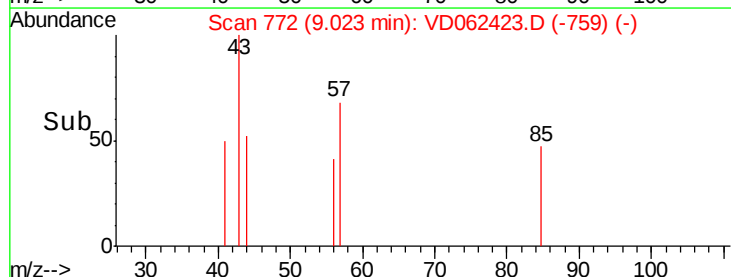
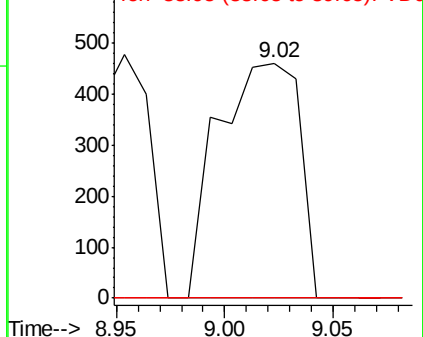
41 100

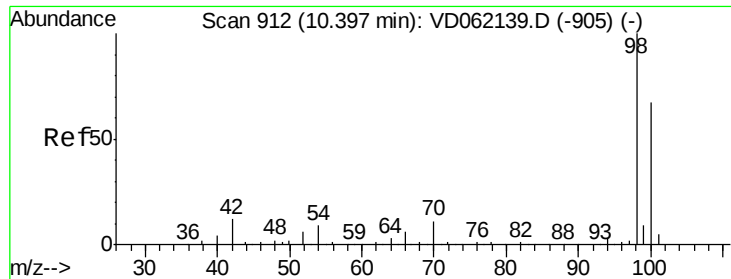
69 0.0 64.2 96.2#

39 0.0 46.8 70.2#



Abundance Ion 40.95 (40.65 to 41.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 38.95 (38.65 to 39.65): VDC





#50

Toluene-d8

Concen: 15.241 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

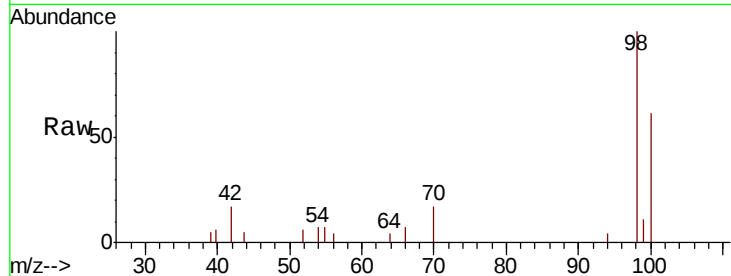
SOIL-COMP

Tot Ion: 98 Resp: 17682

Ion Ratio Lower Upper

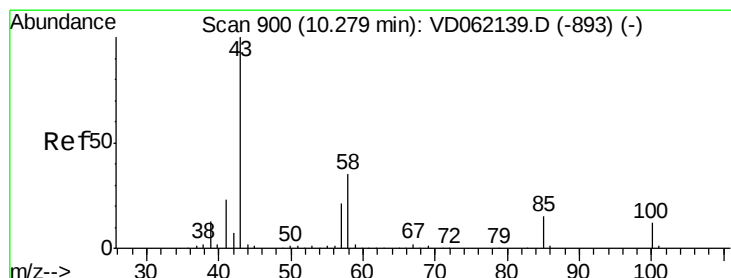
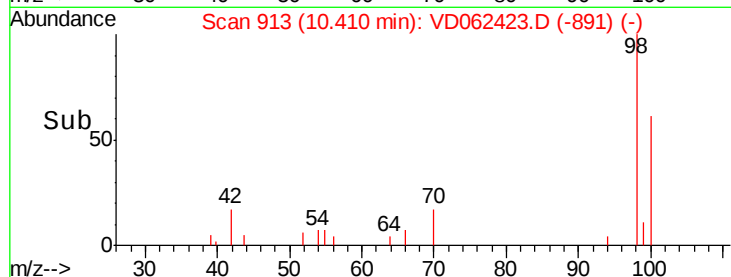
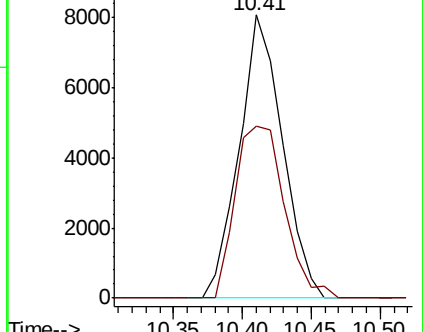
98 100

100 61.0 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.034 ug/l

RT: 10.35 min Scan# 907

Delta R.T. 0.07 min

Lab File: VD062423.D

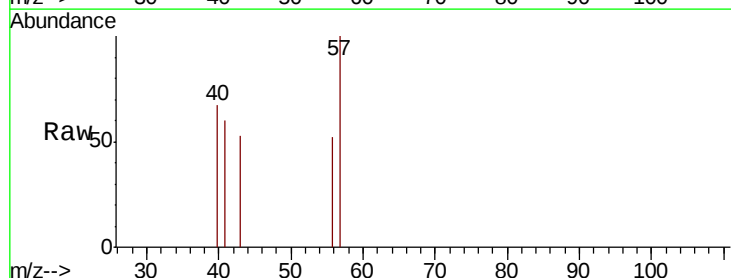
Acq: 16 May 2019 17:53

Tgt Ion: 43 Resp: 190

Ion Ratio Lower Upper

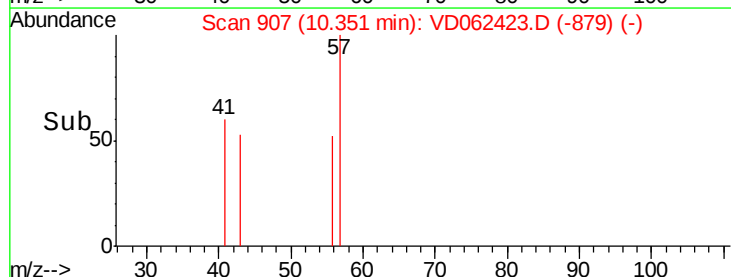
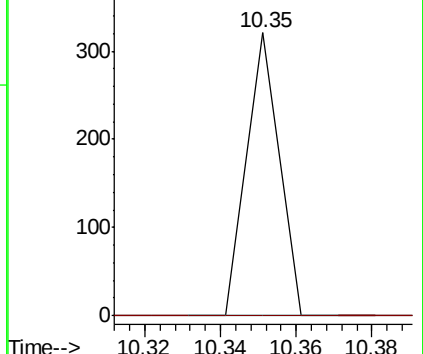
43 100

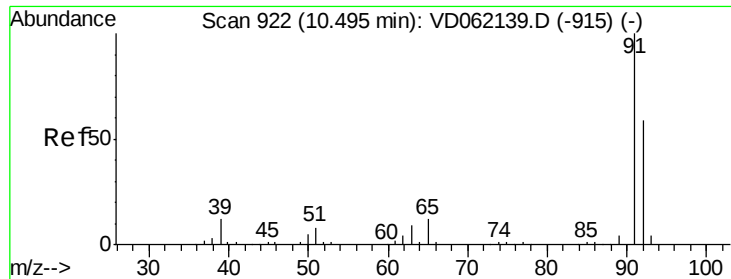
58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD062139.D (-893) (-)

Ion 57.95 (57.65 to 58.65): VD062139.D (-893) (-)





#52

Toluene

Concen: 4.430 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

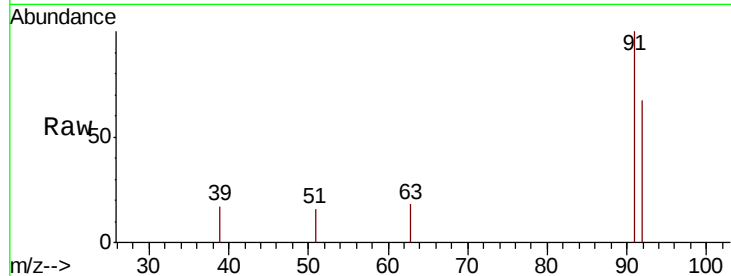
SOIL-COMP

Tot Ion: 92 Resp: 3095

Ion Ratio Lower Upper

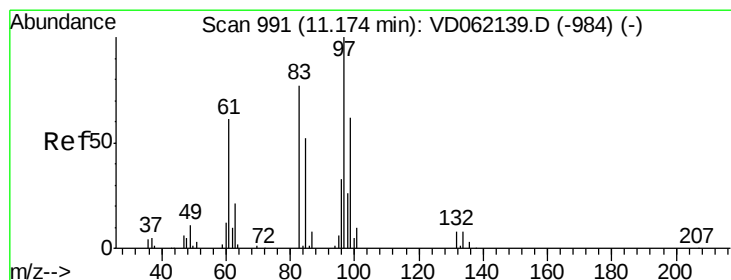
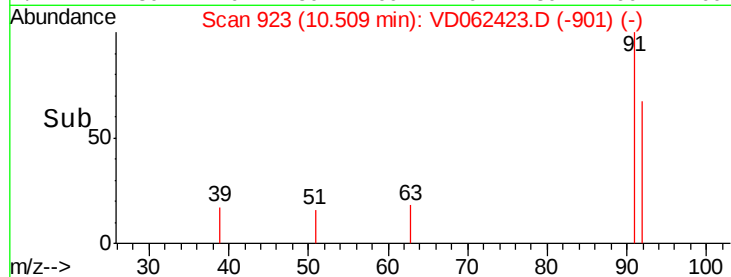
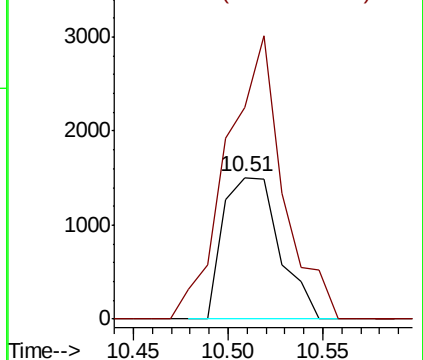
92 100

91 148.9 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 2.884 ug/l

RT: 11.10 min Scan# 983

Delta R.T. -0.07 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Tgt Ion: 97 Resp: 713

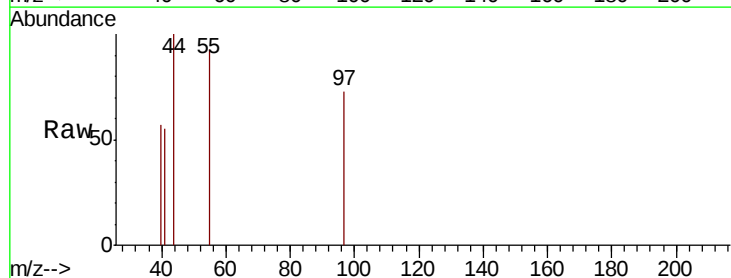
Ion Ratio Lower Upper

97 100

83 0.0 65.7 98.5#

85 0.0 45.6 68.4#

99 0.0 48.4 72.6#

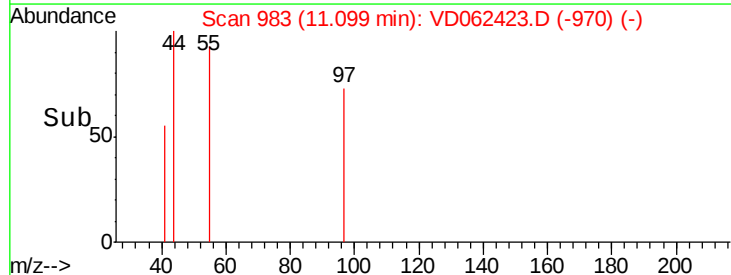
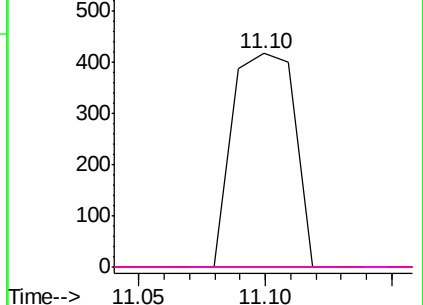


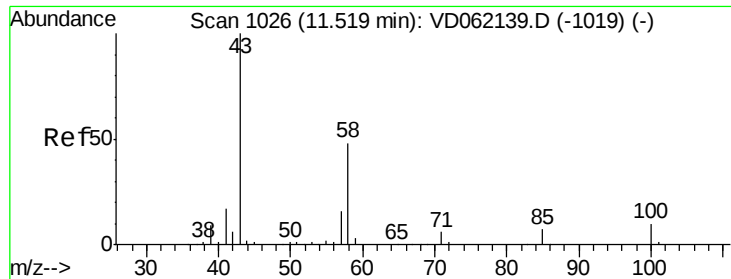
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC

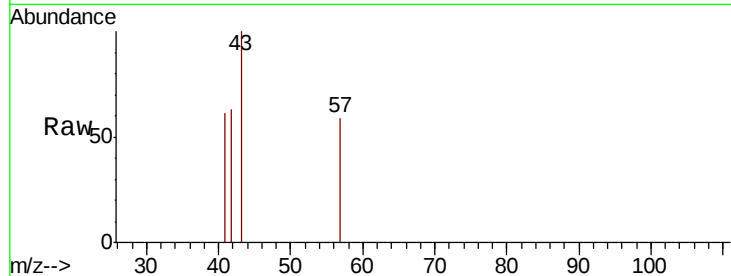




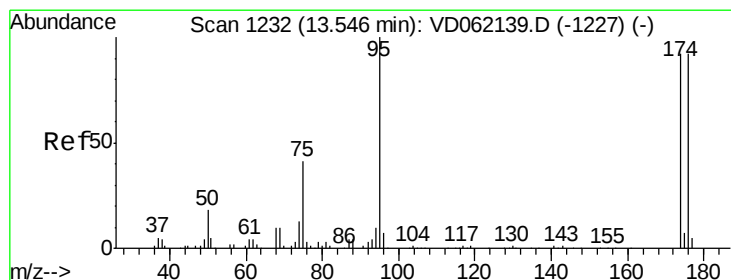
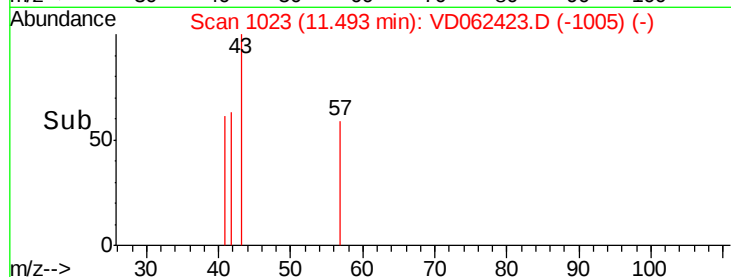
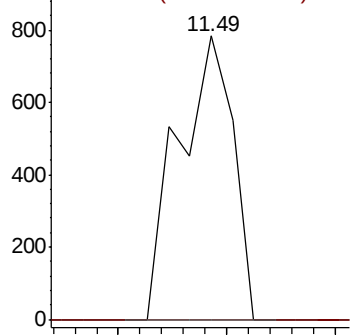
#59  
2-Hexanone  
Concen: 10.111 ug/l  
RT: 11.49 min Scan# 1023  
Delta R.T. -0.03 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-COMP

Tot Ion: 43 Resp: 1370  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.4 76.4#

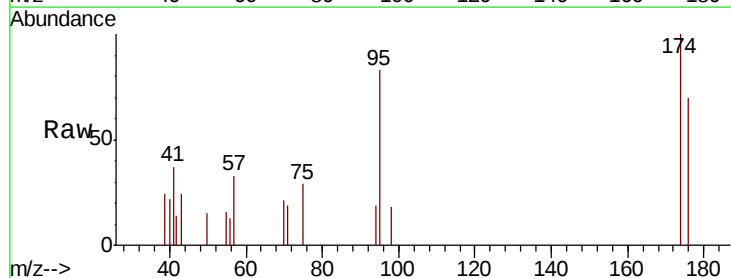


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC

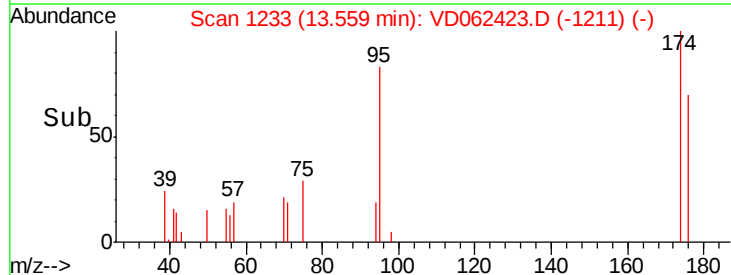
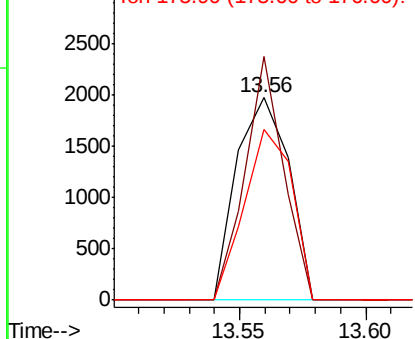


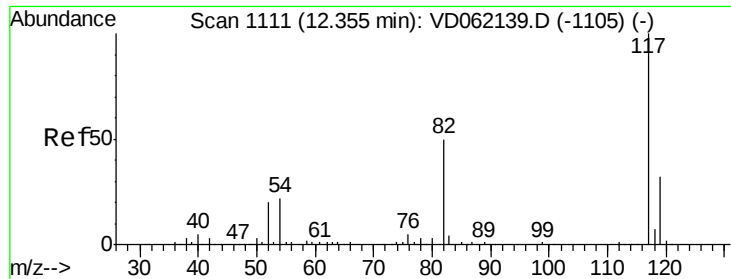
#62  
4-Bromofluorobenzene  
Concen: 6.111 ug/l  
RT: 13.56 min Scan# 1233  
Delta R.T. 0.01 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

Tgt Ion: 95 Resp: 2847  
Ion Ratio Lower Upper  
95 100  
174 120.5 0.0 181.8  
176 84.6 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

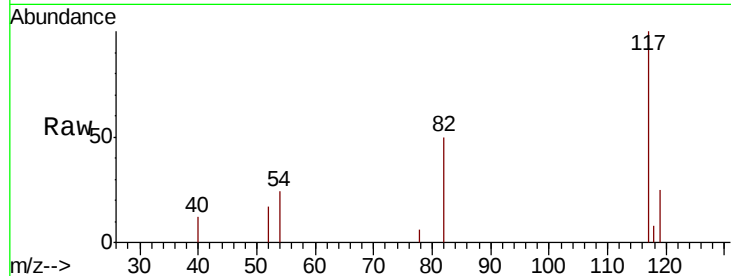




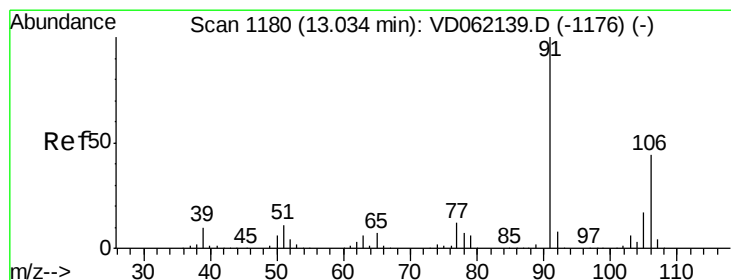
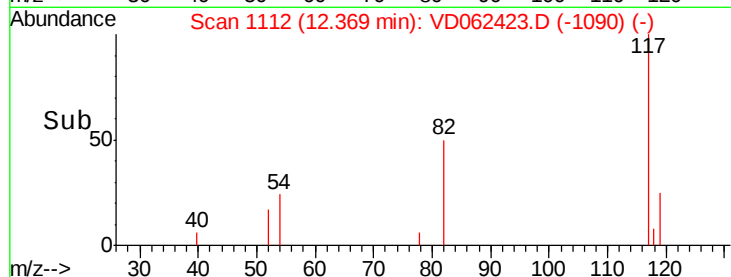
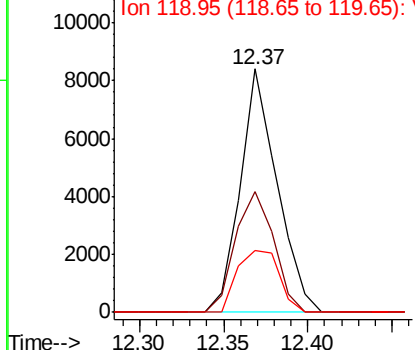
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SOIL-COMP

Tot Ion:117 Resp: 12728  
Ion Ratio Lower Upper  
117 100  
82 49.6 36.2 54.2  
119 25.2 26.2 39.4#

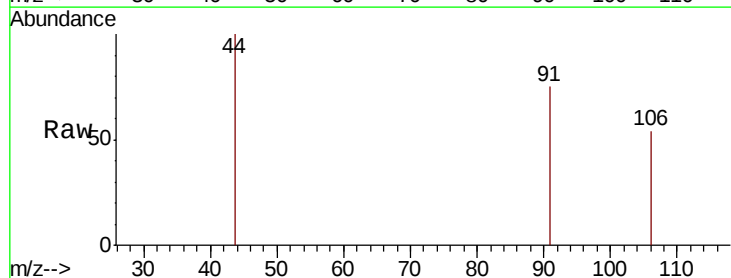


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

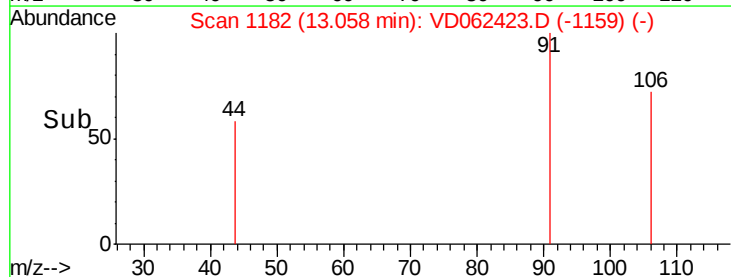
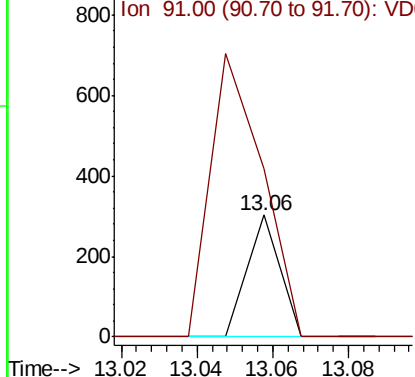


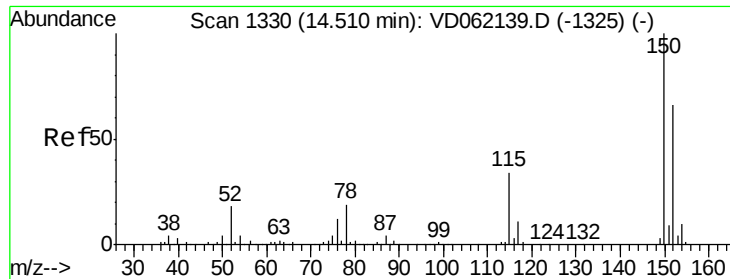
#69  
o-Xylene  
Concen: 1.326 ug/l  
RT: 13.06 min Scan# 1182  
Delta R.T. 0.02 min  
Lab File: VD062423.D  
Acq: 16 May 2019 17:53

Tgt Ion:106 Resp: 178  
Ion Ratio Lower Upper  
106 100  
91 138.4 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

SOIL-COMP

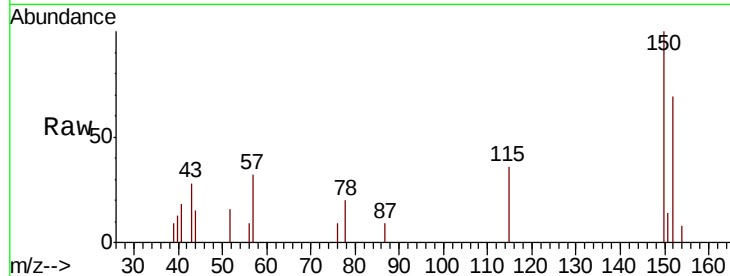
Tot Ion:152 Resp: 3139

Ion Ratio Lower Upper

152 100

115 52.4 30.9 92.7

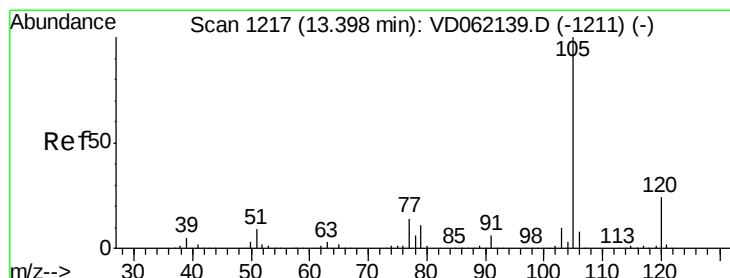
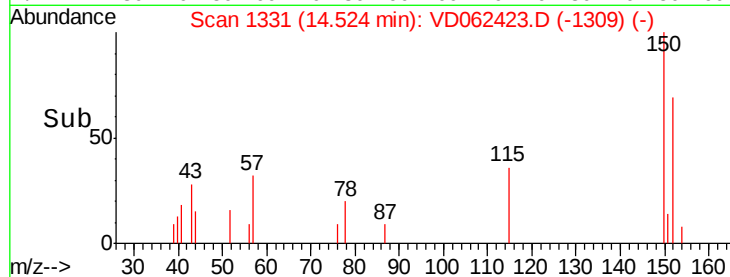
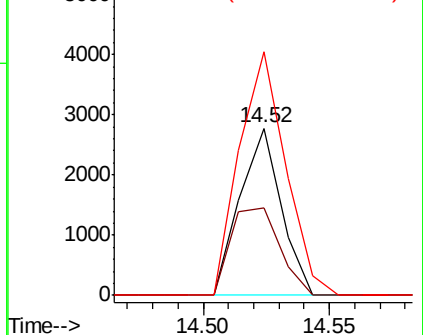
150 145.8 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 2.392 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062423.D

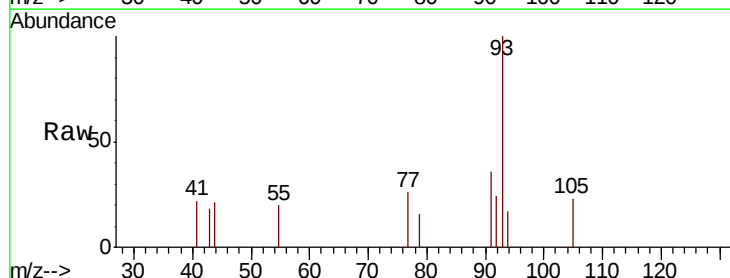
Acq: 16 May 2019 17:53

Tgt Ion:105 Resp: 450

Ion Ratio Lower Upper

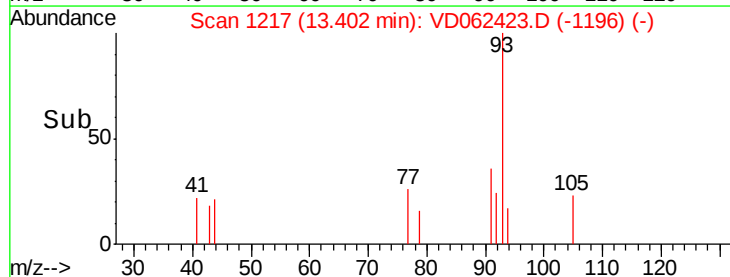
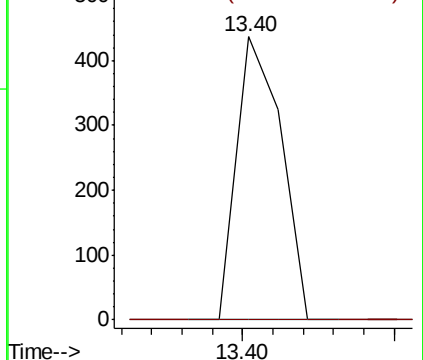
105 100

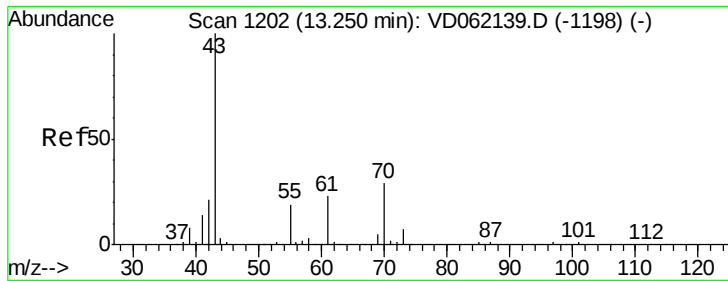
120 0.0 12.0 36.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 25.257 ug/l

RT: 13.22 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

SOIL-COMP

Tot Ion: 43 Resp: 1246

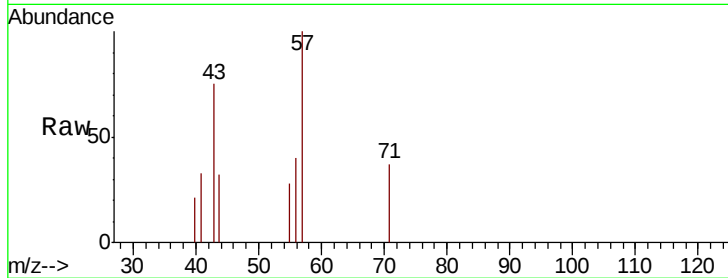
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 37.2 16.0 24.0#

61 0.0 21.6 32.4#

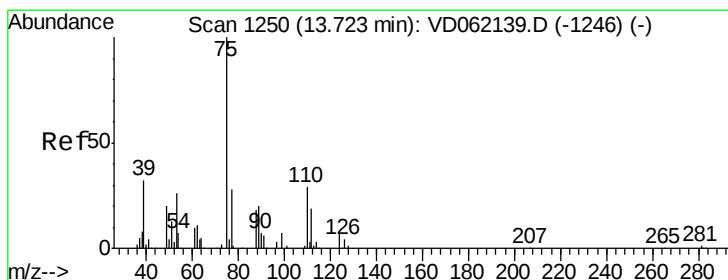
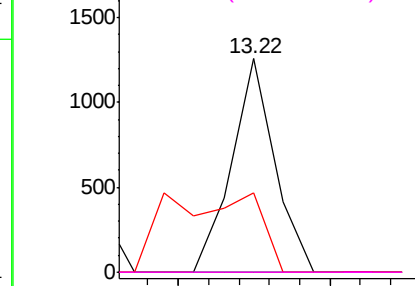
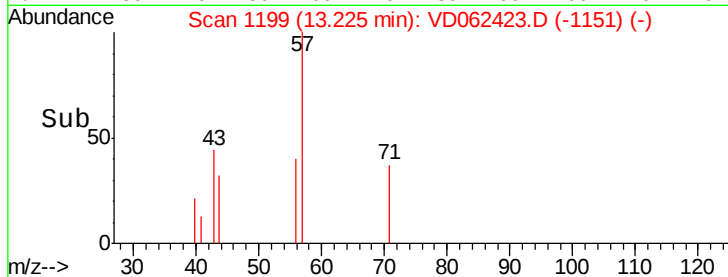


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 28.870 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062423.D

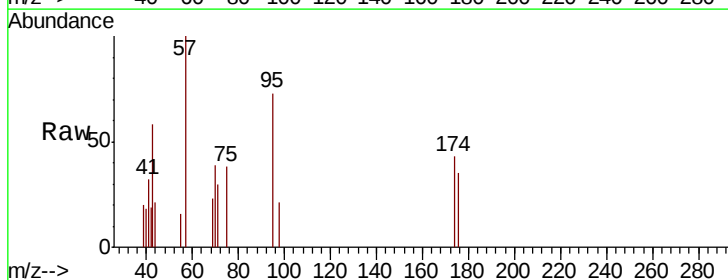
Acq: 16 May 2019 17:53

Tgt Ion: 75 Resp: 1077

Ion Ratio Lower Upper

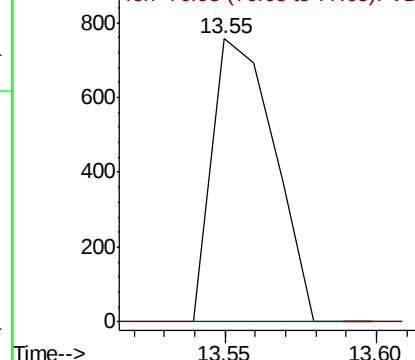
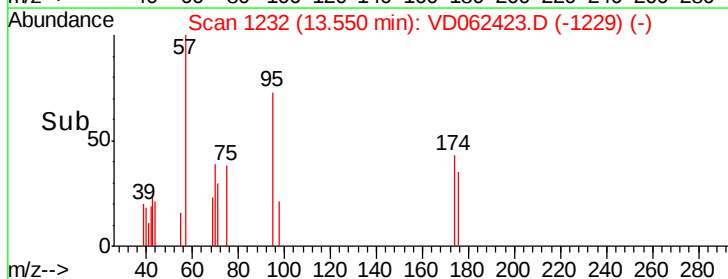
75 100

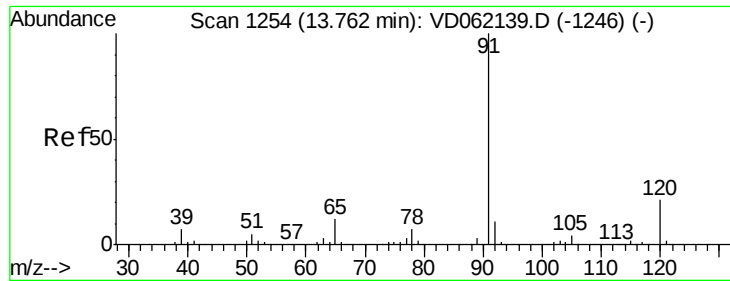
77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#78

n-propylbenzene

Concen: 10.759 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

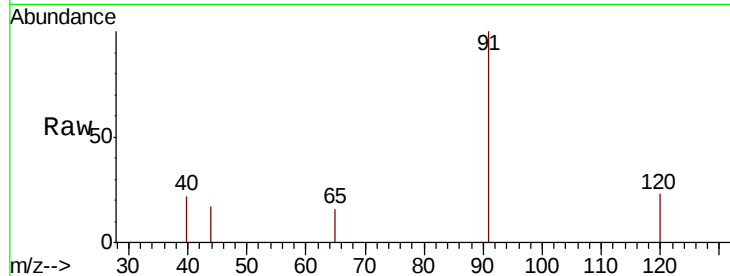
SOIL-COMP

Tot Ion: 91 Resp: 2415

Ion Ratio Lower Upper

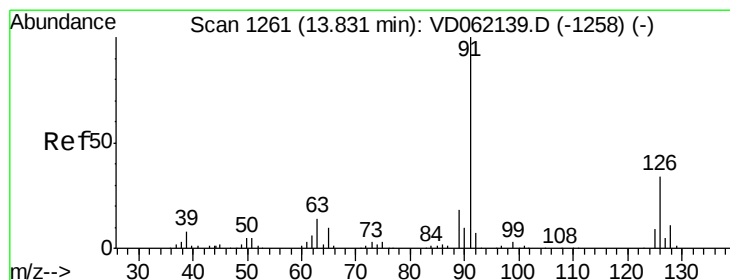
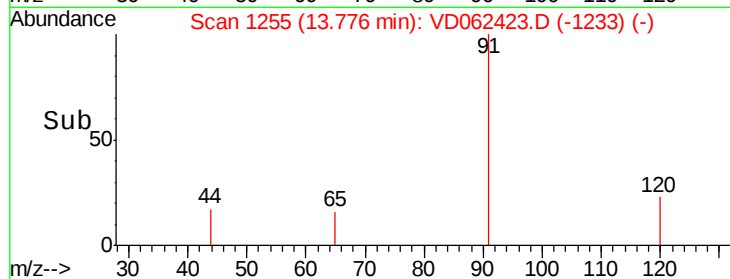
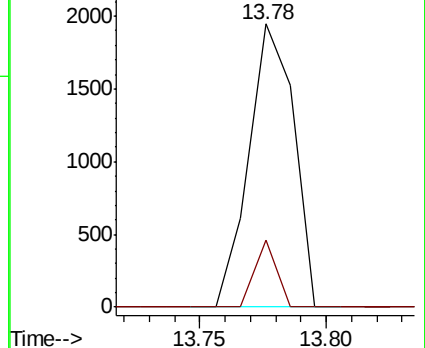
91 100

120 23.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 18.787 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.06 min

Lab File: VD062423.D

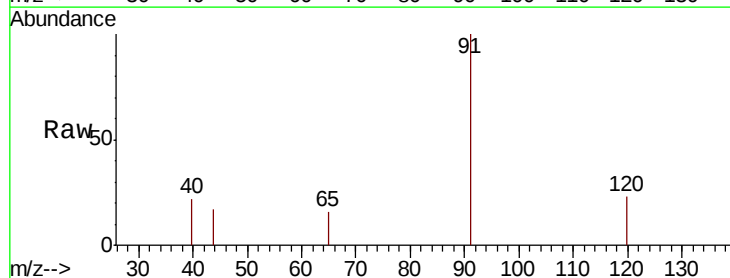
Acq: 16 May 2019 17:53

Tgt Ion: 91 Resp: 2415

Ion Ratio Lower Upper

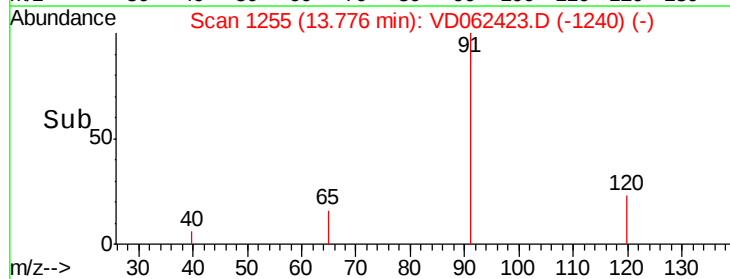
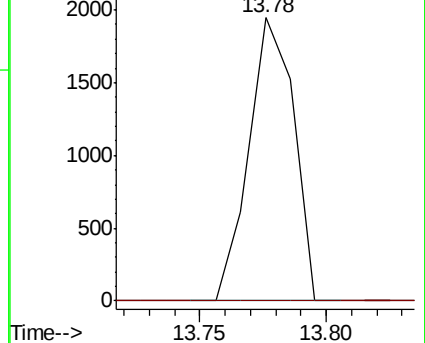
91 100

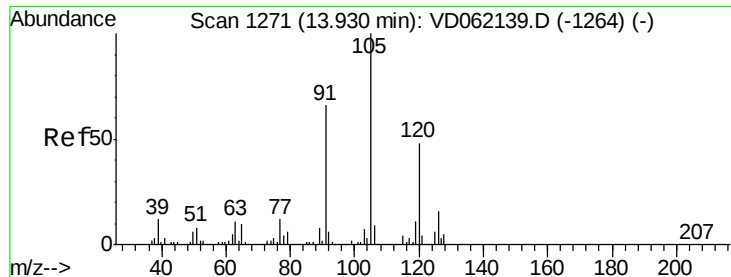
126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#80

1,3,5-Trimethylbenzene

Concen: 2.341 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

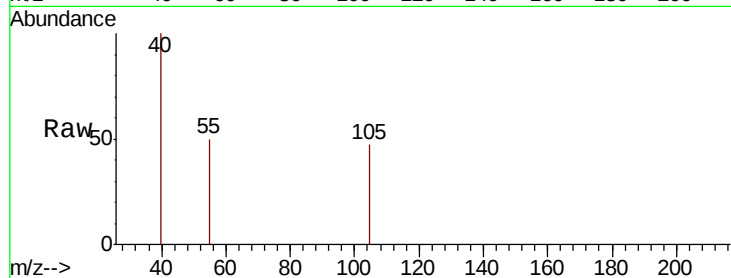
SOIL-COMP

Tot Ion: 105 Resp: 371

Ion Ratio Lower Upper

105 100

120 0.0 24.0 72.0#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.94

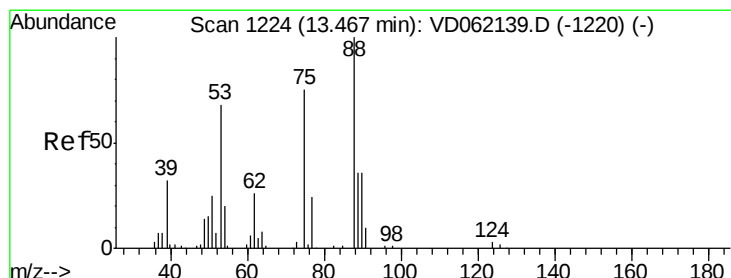
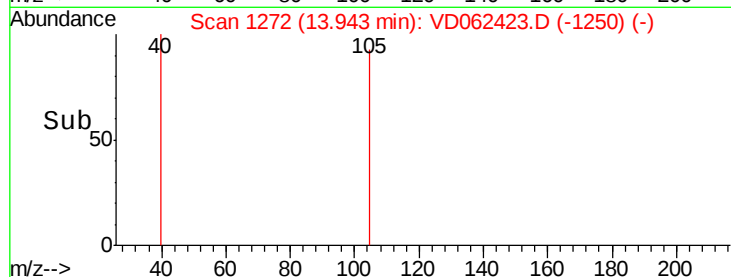
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 102.267 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

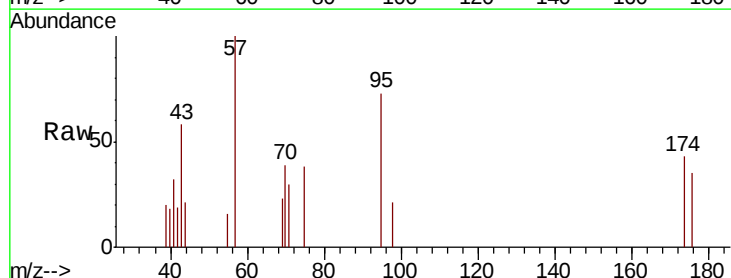
Tgt Ion: 75 Resp: 1077

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

1000

800

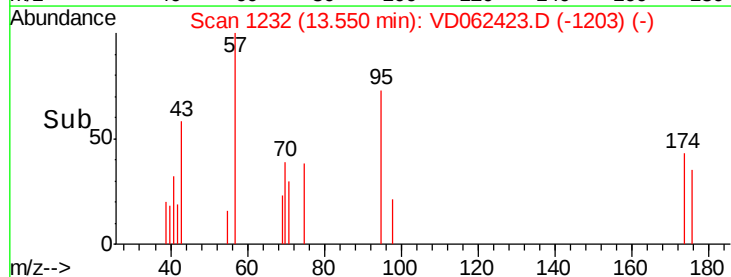
600

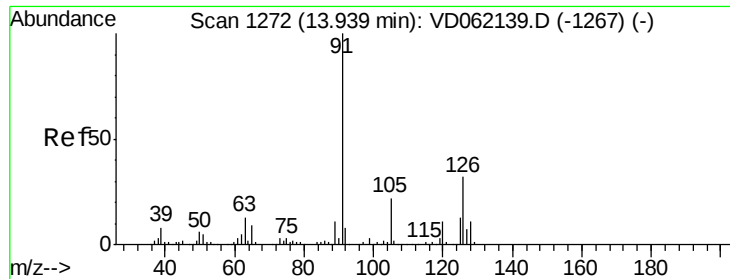
400

200

0

Time-->





#82

4-Chlorotoluene

Concen: 1.930 ug/l

RT: 13.98 min Scan# 1276

Delta R.T. 0.04 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

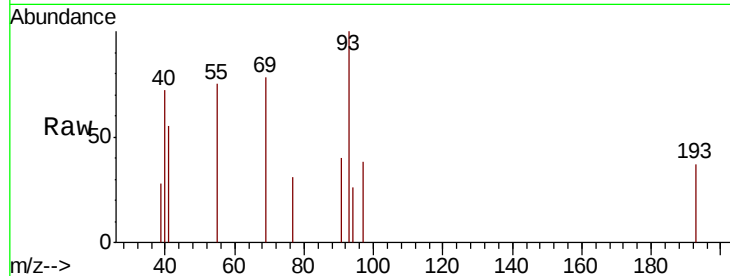
SOIL-COMP

Tot Ion: 91 Resp: 292

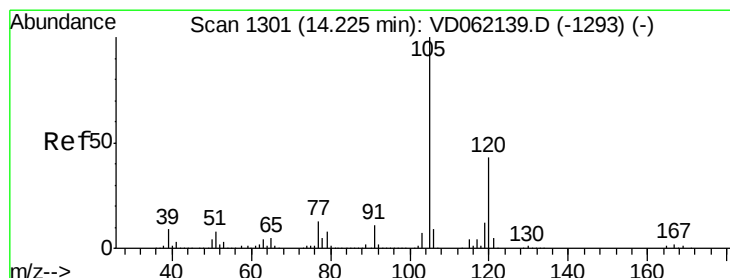
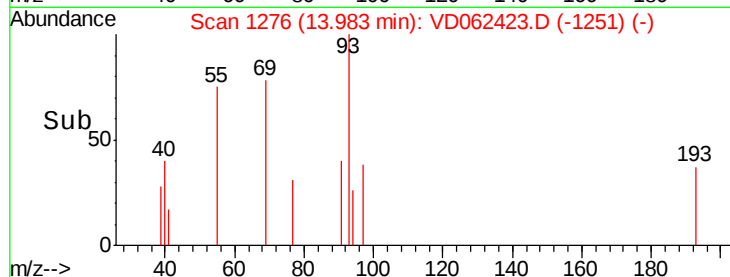
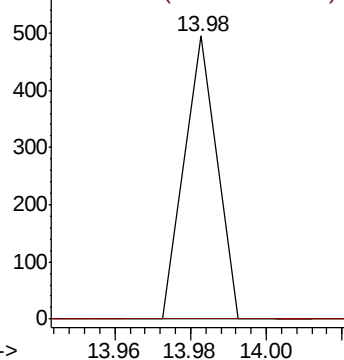
Ion Ratio Lower Upper

91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): V



#84

1,2,4-Trimethylbenzene

Concen: 5.415 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD062423.D

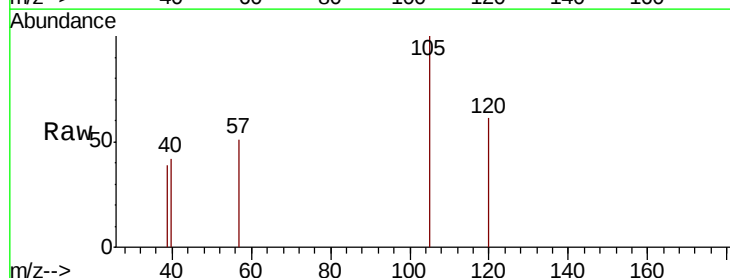
Acq: 16 May 2019 17:53

Tgt Ion: 105 Resp: 861

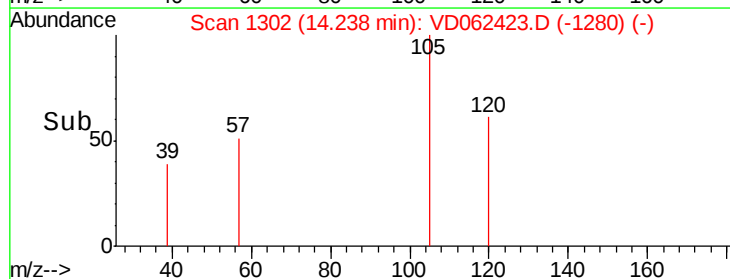
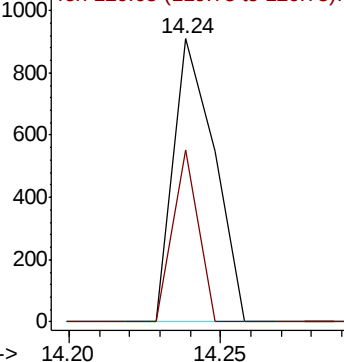
Ion Ratio Lower Upper

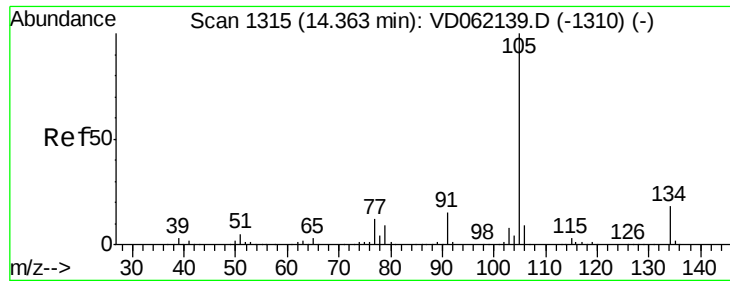
105 100

120 60.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V





#85

sec-Butylbenzene

Concen: 6.673 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleID :

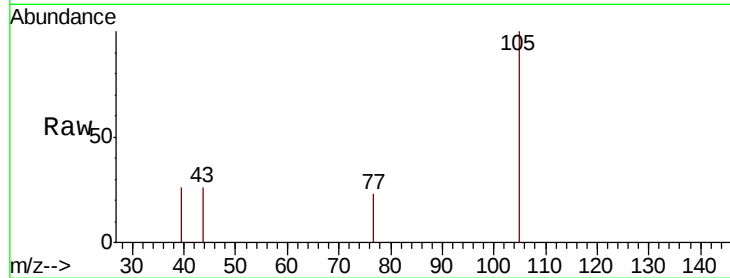
SOIL-COMP

Tot Ion:105 Resp: 1303

Ion Ratio Lower Upper

105 100

134 0.0 8.9 26.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

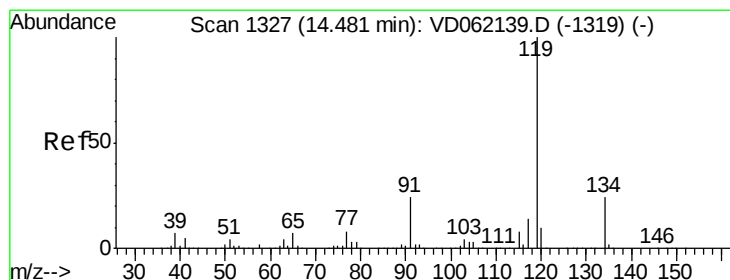
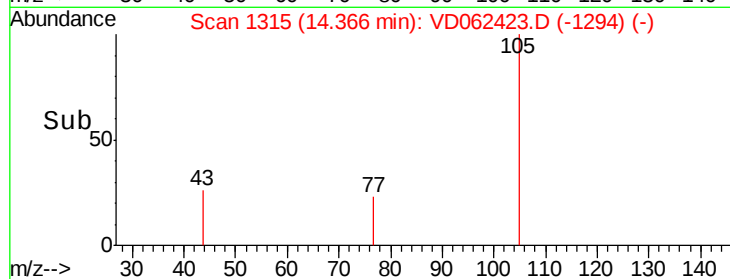
1500

1000

500

0

Time-->



#86

p-Isopropyltoluene

Concen: 1.112 ug/l

RT: 14.48 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

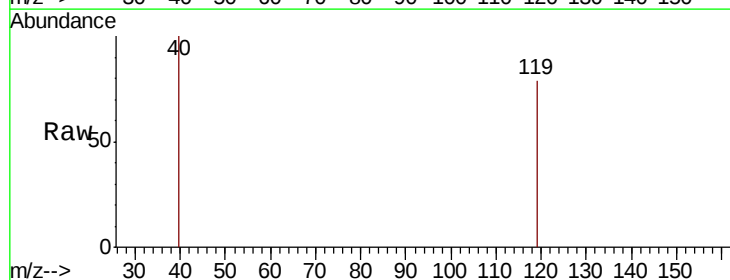
Tgt Ion:119 Resp: 194

Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

91 0.0 10.7 32.1#



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.48

400

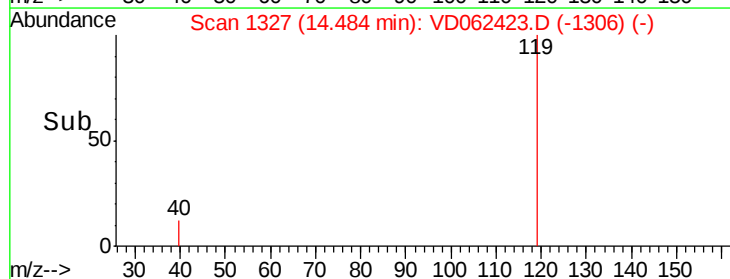
300

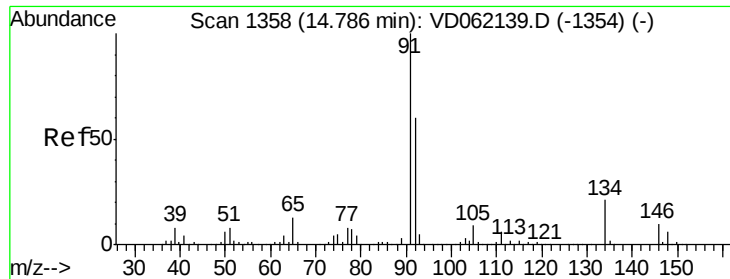
200

100

0

Time-->





#89

n-Butylbenzene

Concen: 18.207 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleID :

SOIL-COMP

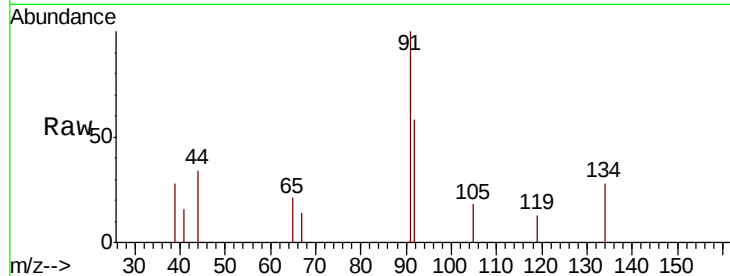
Tot Ion: 91 Resp: 2851

Ion Ratio Lower Upper

91 100

92 57.7 30.3 91.0

134 27.6 14.5 43.6

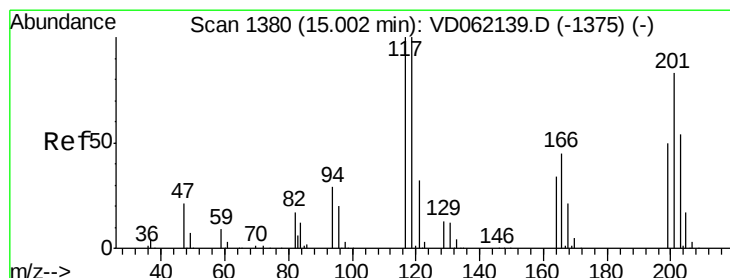
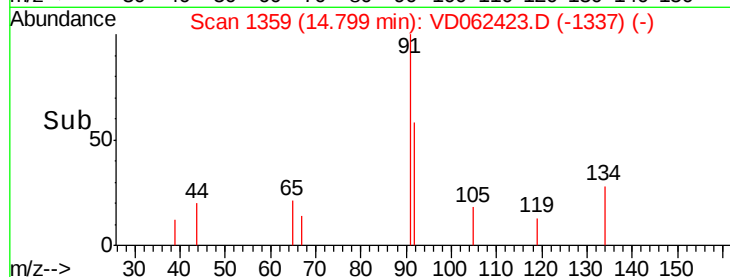


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

Time-->



#90

Hexachloroethane

Concen: 11.340 ug/l

RT: 15.06 min Scan# 1385

Delta R.T. 0.05 min

Lab File: VD062423.D

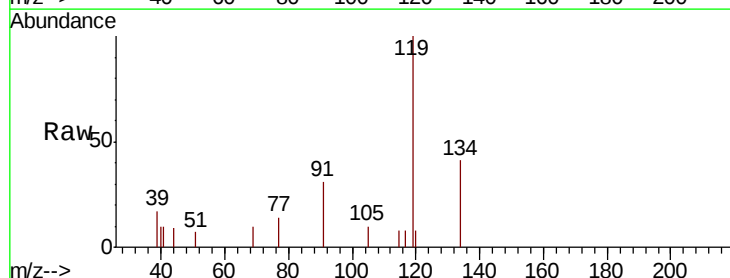
Acq: 16 May 2019 17:53

Tgt Ion: 117 Resp: 538

Ion Ratio Lower Upper

117 100

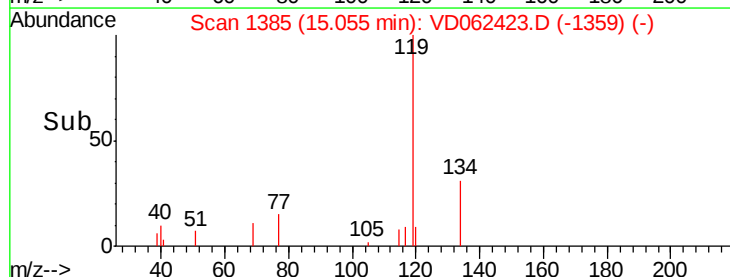
201 0.0 30.2 90.6#

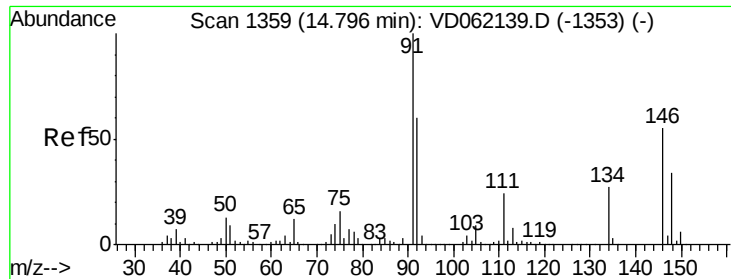


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

Time-->

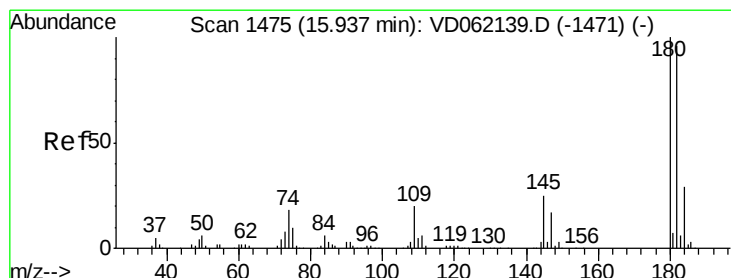
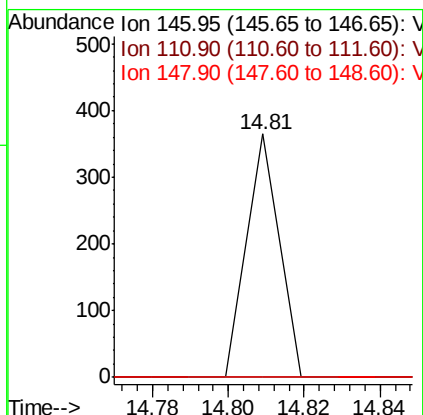
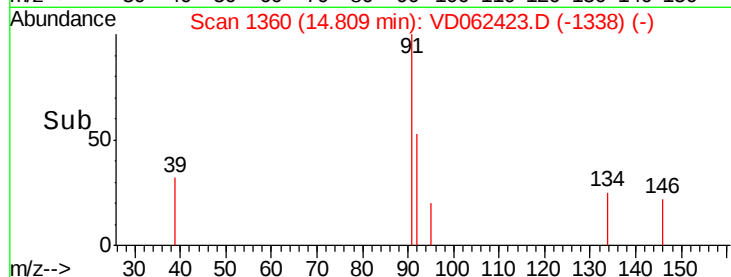
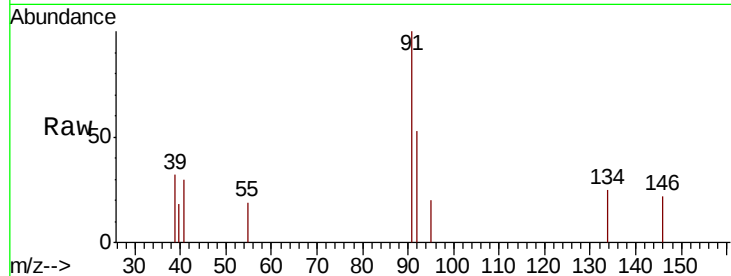




#91  
 1,2-Dichlorobenzene  
 Concen: 2.726 ug/l  
 RT: 14.81 min Scan# 1360  
 Delta R.T. 0.01 min  
 Lab File: VD062423.D  
 Acq: 16 May 2019 17:53

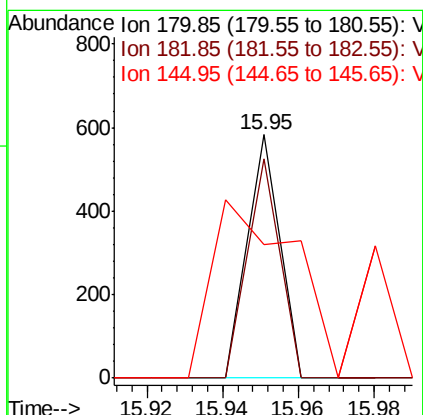
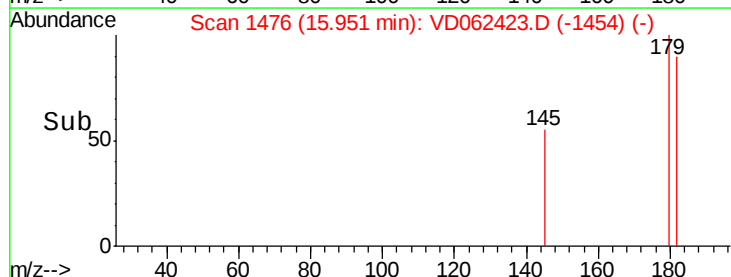
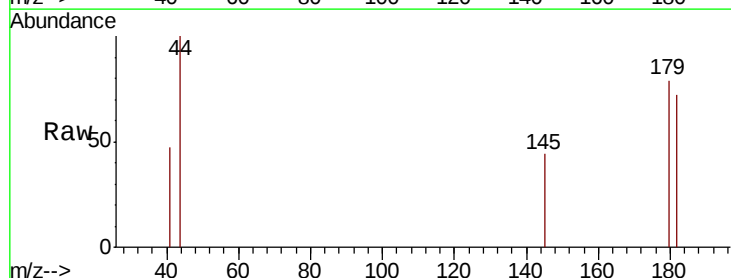
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-COMP

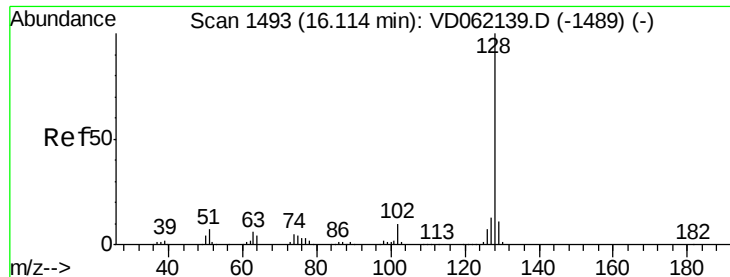
Tot Ion:146 Resp: 216  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 20.0 59.9#  
 148 0.0 32.3 96.8#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 5.964 ug/l  
 RT: 15.95 min Scan# 1476  
 Delta R.T. 0.01 min  
 Lab File: VD062423.D  
 Acq: 16 May 2019 17:53

Tgt Ion:180 Resp: 344  
 Ion Ratio Lower Upper  
 180 100  
 182 90.2 49.3 147.8  
 145 55.1 16.2 48.6#





#95

Naphthalene

Concen: 29.965 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA\_D

ClientSampleId :

SOIL-COMP

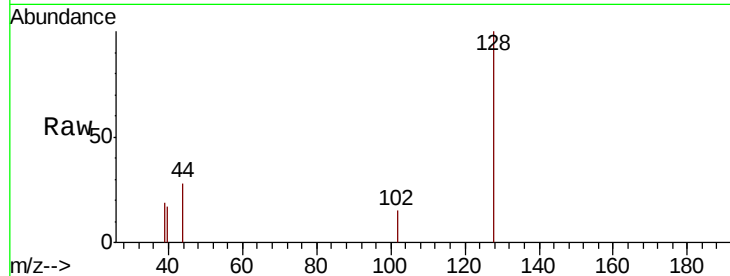
Tot Ion:128 Resp: 2413

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

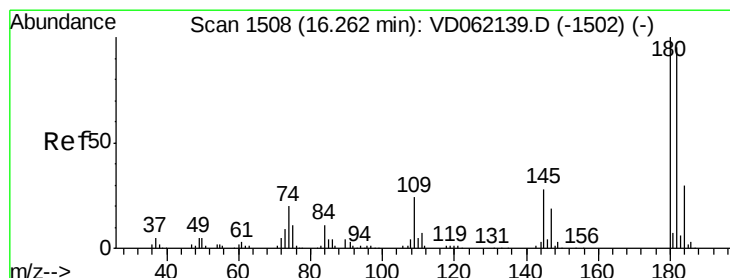
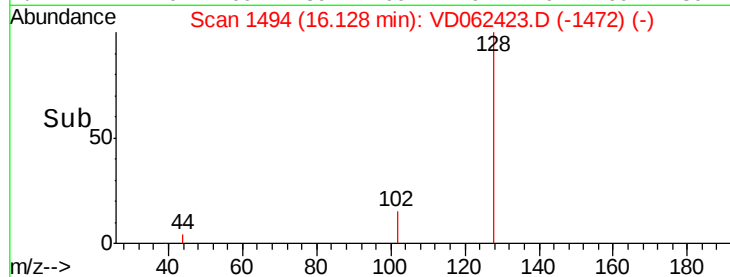
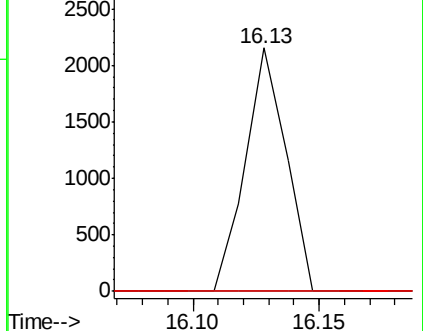
129 0.0 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 7.528 ug/l

RT: 16.28 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

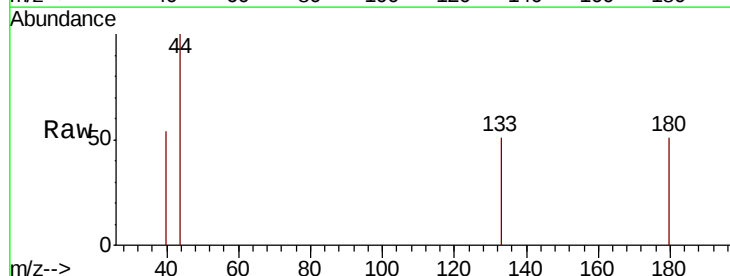
Tgt Ion:180 Resp: 273

Ion Ratio Lower Upper

180 100

182 0.0 47.0 141.0#

145 0.0 17.0 51.0#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

