

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122118\  
 Data File : VD060691.D  
 Acq On : 21 Dec 2018 18:39  
 Operator : VA/AP  
 Sample : J6518-01  
 Misc : 4.05g/5ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 337-SOIL

Quant Time: Dec 21 22:28:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122018S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 21 17:37:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.44  | 168  | 245218   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 7.47  | 114  | 402686   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 11.31 | 117  | 354232   | 50.00 | ug/l  | 0.03     |
| 72) 1,4-Dichlorobenzene-d4 | 13.40 | 152  | 172838   | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.81  | 65   | 212962   | 125.67 | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 251.34% |          |
| 35) Dibromofluoromethane    | 6.36  | 113  | 205469   | 69.71  | ug/l    | 0.03     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 139.42% |          |
| 50) Toluene-d8              | 9.49  | 98   | 456338   | 51.89  | ug/l    | 0.03     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.78% |          |
| 62) 4-Bromofluorobenzene    | 12.45 | 95   | 178028   | 57.80  | ug/l    | 0.03     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 115.60% |          |

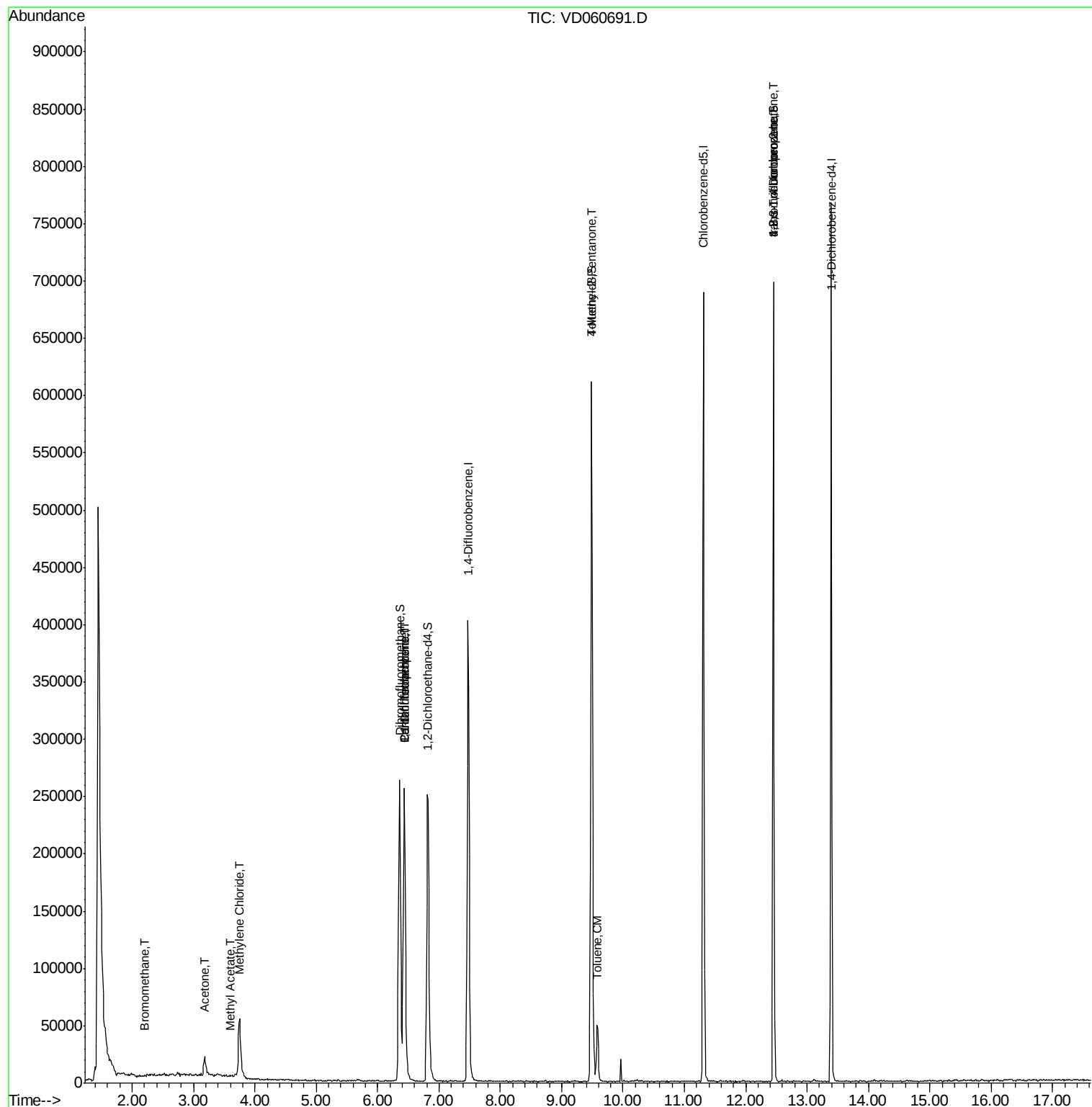
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.20  | 94   | 1886     | 3.678   | ug/l # | 2      |
| 16) Acetone                    | 3.18  | 43   | 30706    | 103.756 | ug/l   | 98     |
| 18) Methyl Acetate             | 3.59  | 43   | 2311     | 3.151   | ug/l # | 63     |
| 20) Methylene Chloride         | 3.75  | 84   | 34840    | 11.336  | ug/l   | 92     |
| 36) 1,1-Dichloropropene        | 6.44  | 75   | 16743    | 4.038   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 6.44  | 117  | 18513    | 5.061   | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 9.48  | 43   | 2728     | 2.001   | ug/l # | 1      |
| 52) Toluene                    | 9.58  | 92   | 25840    | 3.848   | ug/l   | 91     |
| 76) 1,2,3-Trichloropropane     | 12.45 | 75   | 74648    | 37.936  | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 12.45 | 75   | 74875    | 137.706 | ug/l # | 13     |

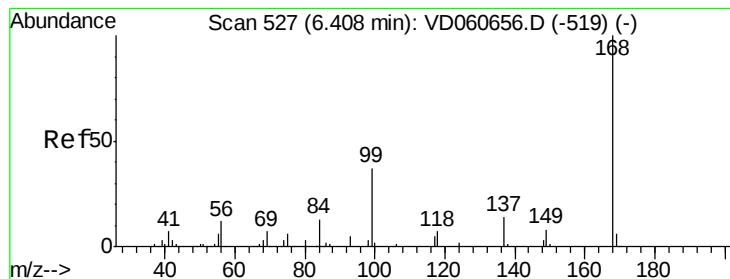
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Dec 21 17:37:47 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.44 min Scan# 530

Delta R.T. 0.03 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

Instrument :

MSVOA\_D

ClientSampleId :

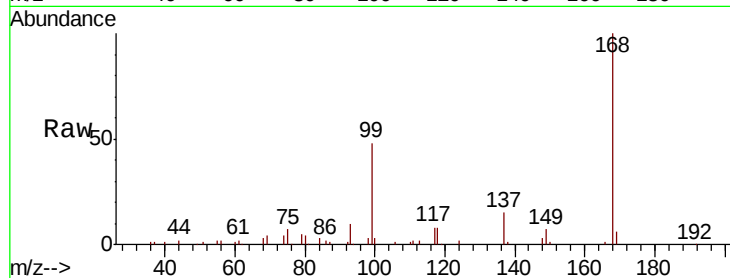
337-SOIL

Tot Ion:168 Resp: 245218

Ion Ratio Lower Upper

168 100

99 48.3 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.44

100000

80000

60000

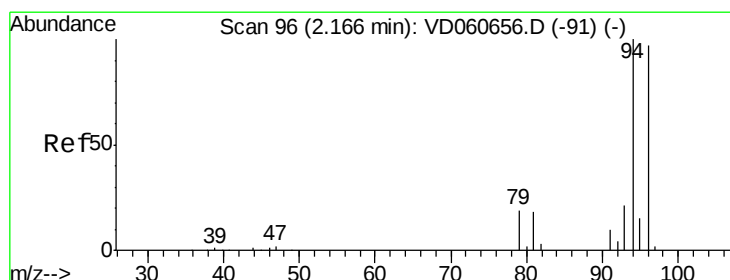
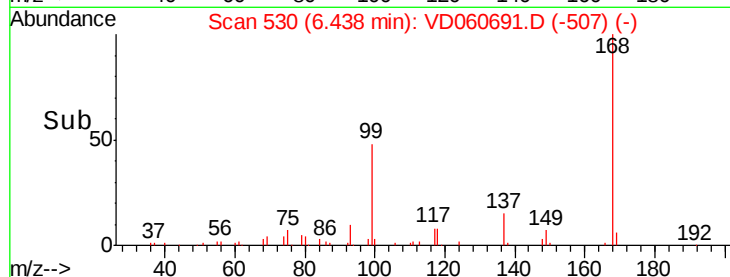
40000

20000

0

Time-->

6.30 6.40 6.50 6.60



#5

Bromomethane

Concen: 3.678 ug/l

RT: 2.20 min Scan# 99

Delta R.T. 0.03 min

Lab File: VD060691.D

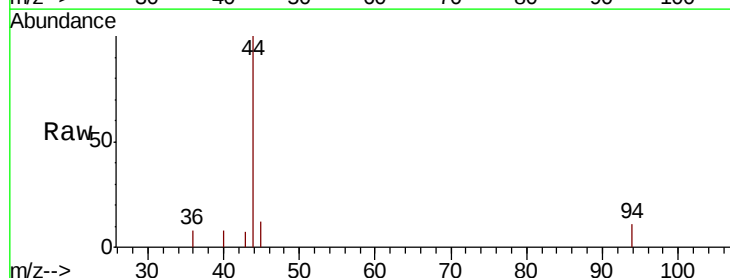
Acq: 21 Dec 2018 18:39

Tgt Ion: 94 Resp: 1886

Ion Ratio Lower Upper

94 100

96 0.0 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.20

500

400

300

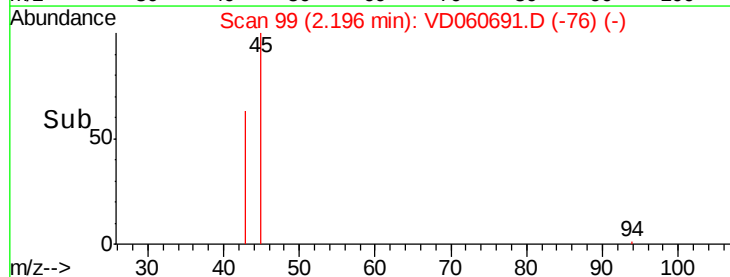
200

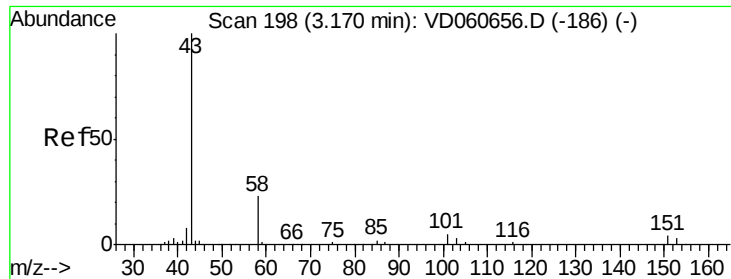
100

0

Time-->

2.15 2.20 2.25





#16

Acetone

Concen: 103.756 ug/l

RT: 3.18 min Scan# 199

Delta R.T. 0.01 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

Instrument :

MSVOA\_D

ClientSampleId :

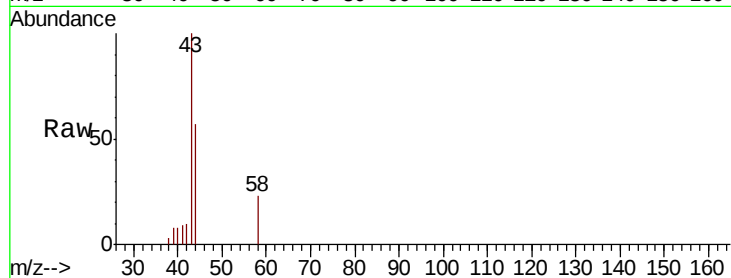
337-SOIL

Tot Ion: 43 Resp: 30706

Ion Ratio Lower Upper

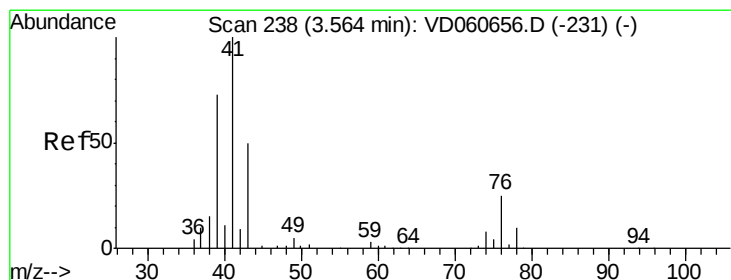
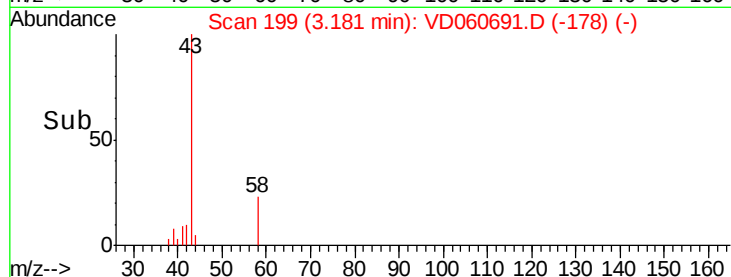
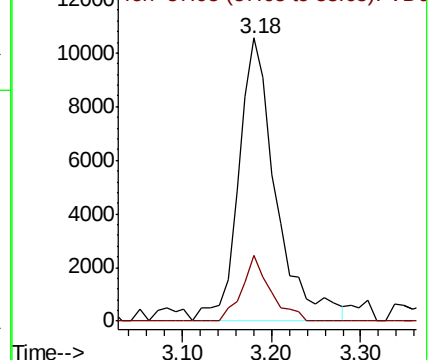
43 100

58 23.4 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 3.151 ug/l

RT: 3.59 min Scan# 241

Delta R.T. 0.03 min

Lab File: VD060691.D

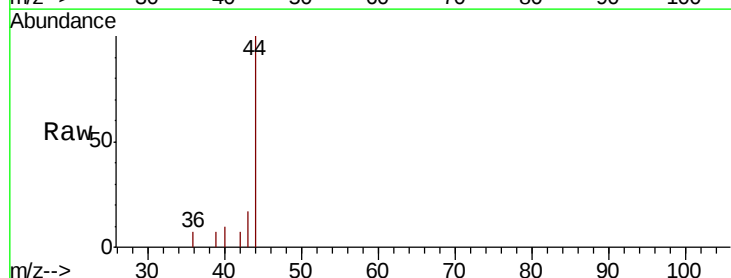
Acq: 21 Dec 2018 18:39

Tgt Ion: 43 Resp: 2311

Ion Ratio Lower Upper

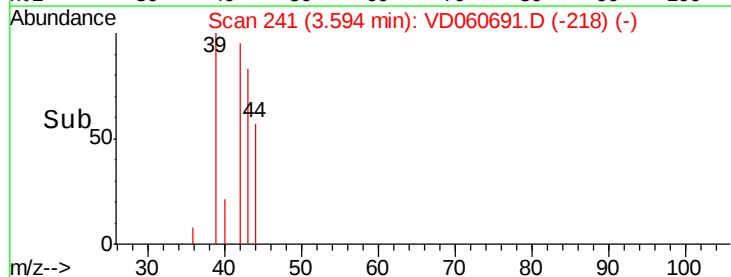
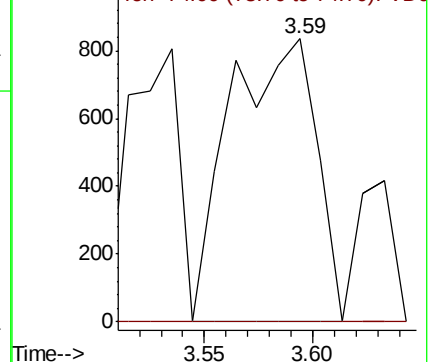
43 100

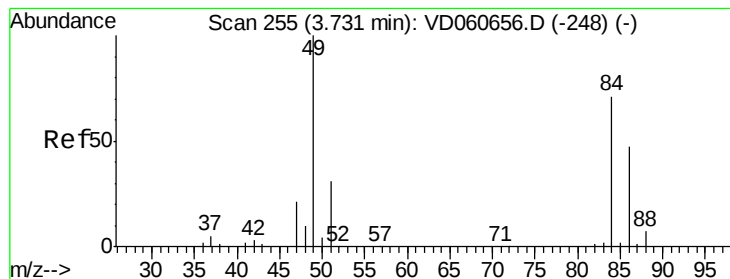
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 11.336 ug/l

RT: 3.75 min Scan# 257

Delta R.T. 0.02 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

Instrument :

MSVOA\_D

ClientSampled :

337-SOIL

Tot Ion: 84 Resp: 34840

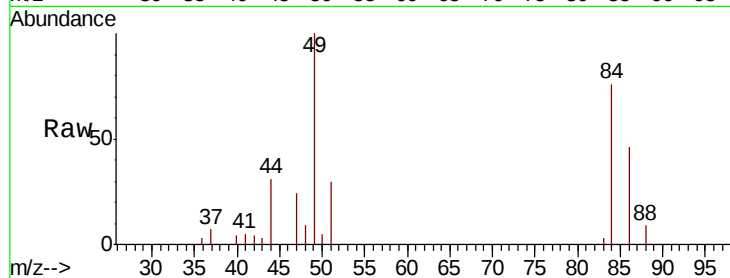
Ion Ratio Lower Upper

84 100

49 131.1 113.6 170.4

51 38.9 34.7 52.1

86 59.7 52.8 79.2



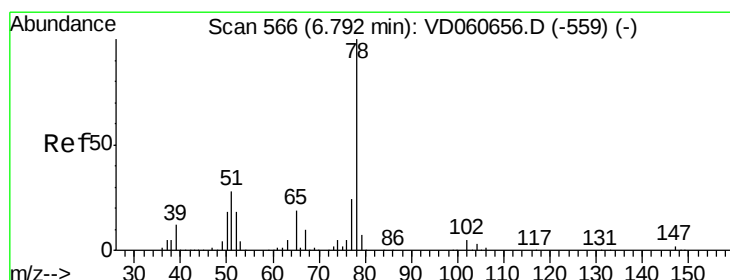
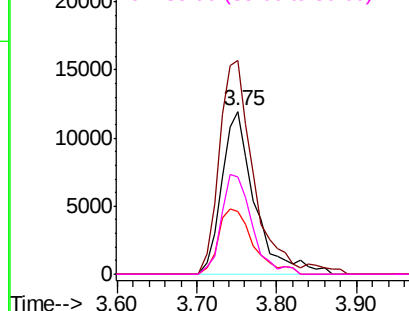
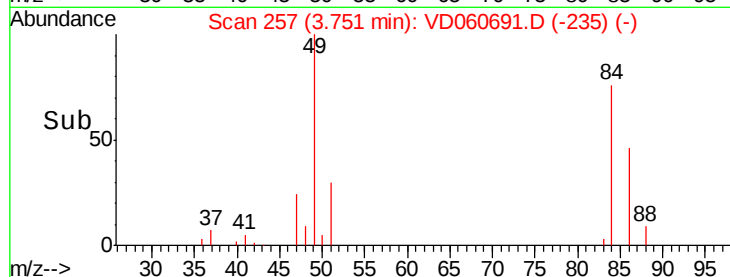
Abundance

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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.81 min Scan# 568

Delta R.T. 0.02 min

Lab File: VD060691.D

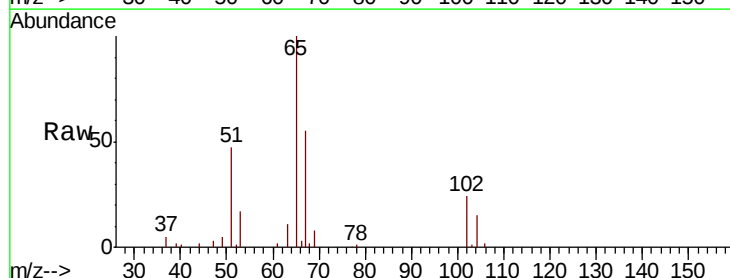
Acq: 21 Dec 2018 18:39

Tgt Ion: 65 Resp: 212962

Ion Ratio Lower Upper

65 100

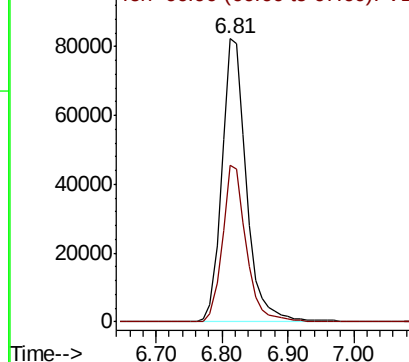
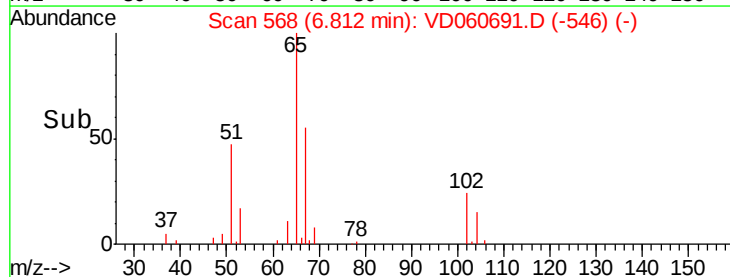
67 55.3 0.0 105.4

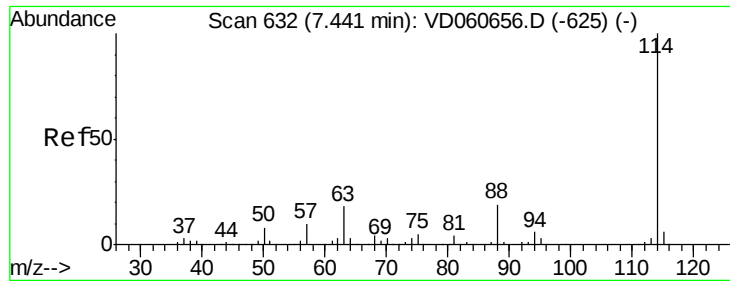


Abundance

Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

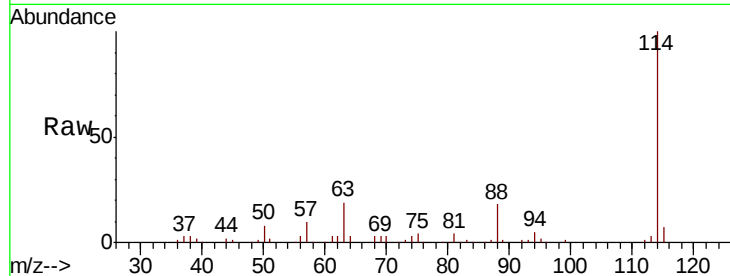




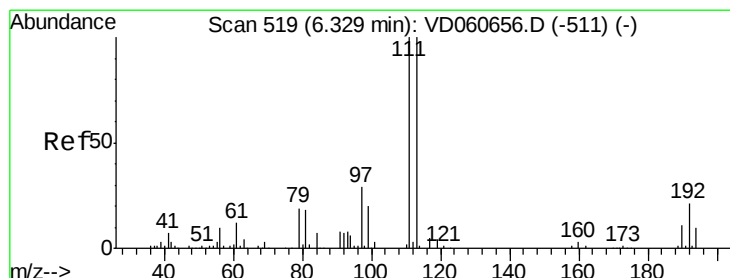
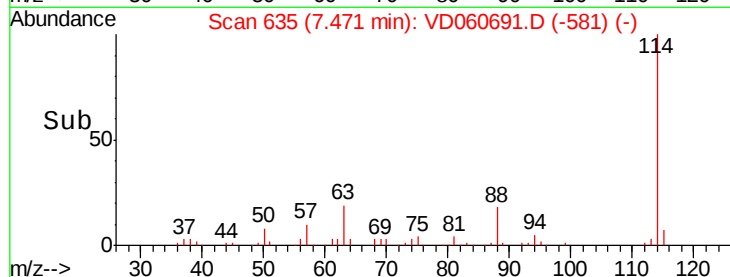
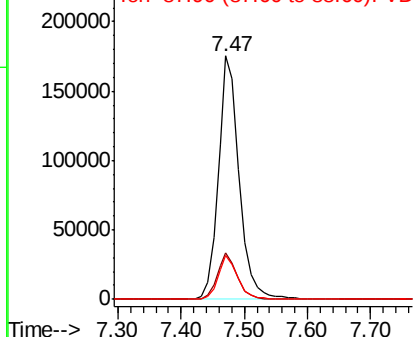
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.47 min Scan# 635  
 Delta R.T. 0.03 min  
 Lab File: VD060691.D  
 Acq: 21 Dec 2018 18:39

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 337-SOIL

Tot Ion:114 Resp: 402686  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 36.2  
 88 17.9 0.0 37.0

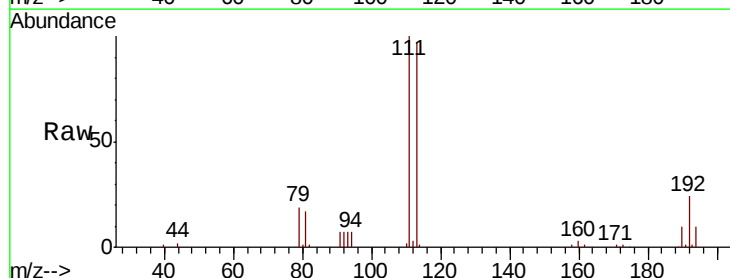


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

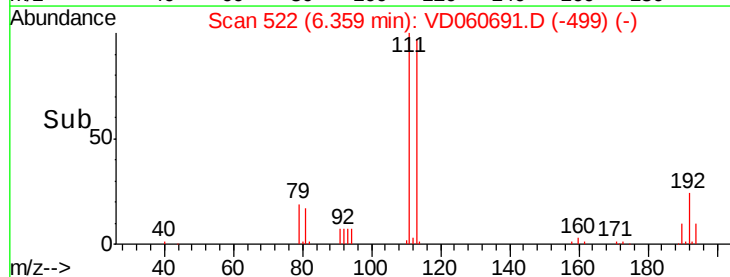
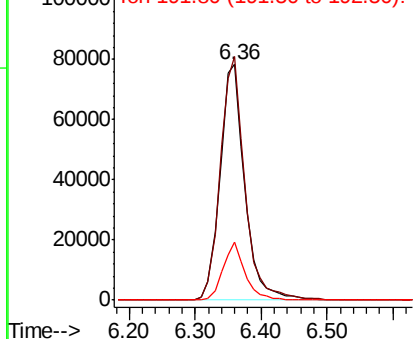


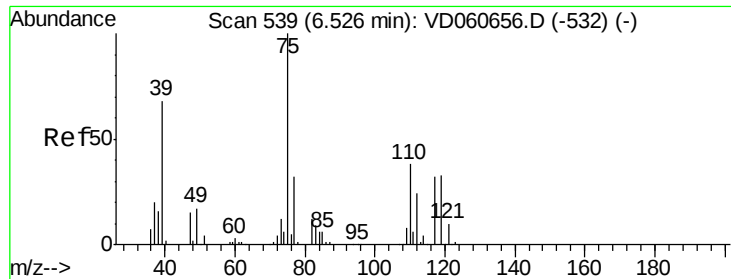
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.36 min Scan# 522  
 Delta R.T. 0.03 min  
 Lab File: VD060691.D  
 Acq: 21 Dec 2018 18:39

Tgt Ion:113 Resp: 205469  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 80.0 120.0  
 192 24.6 16.6 25.0



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: 4.038 ug/l

RT: 6.44 min Scan# 530

Delta R.T. -0.09 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

Instrument :

MSVOA\_D

ClientSampleId :

337-SOIL

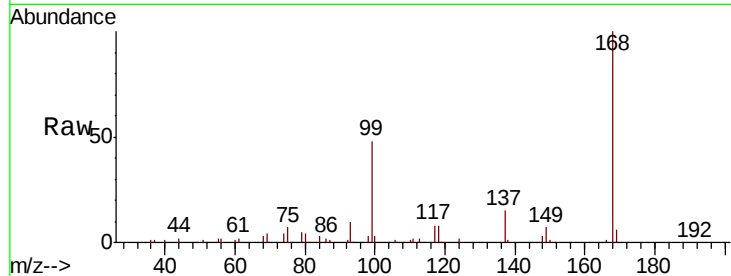
Tot Ion: 75 Resp: 16743

Ion Ratio Lower Upper

75 100

110 8.3 18.9 56.7#

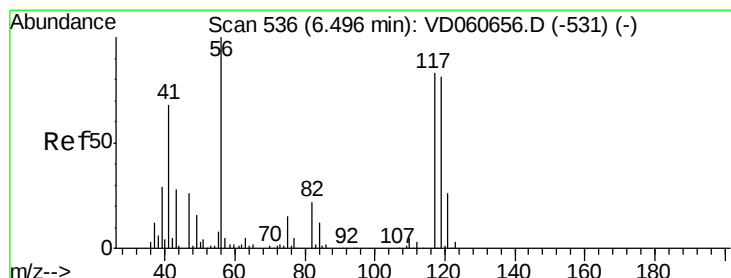
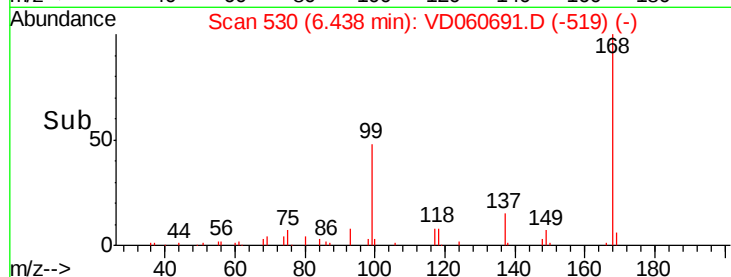
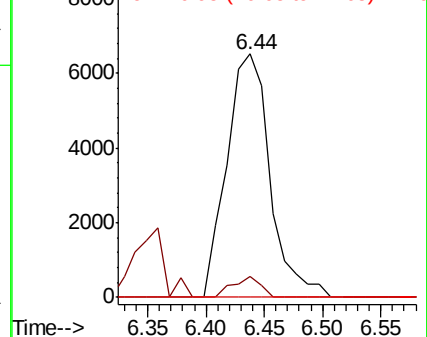
77 0.0 25.4 38.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#38

Carbon Tetrachloride

Concen: 5.061 ug/l

RT: 6.44 min Scan# 530

Delta R.T. -0.06 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

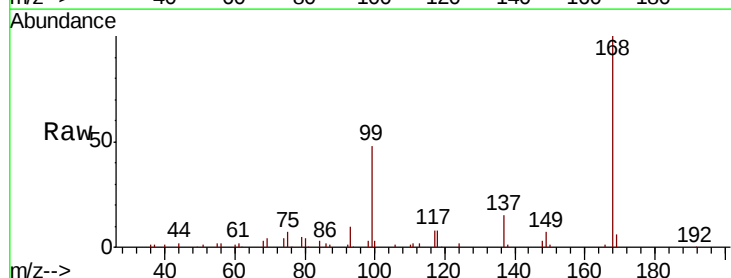
Tgt Ion: 117 Resp: 18513

Ion Ratio Lower Upper

117 100

119 5.6 77.0 115.4#

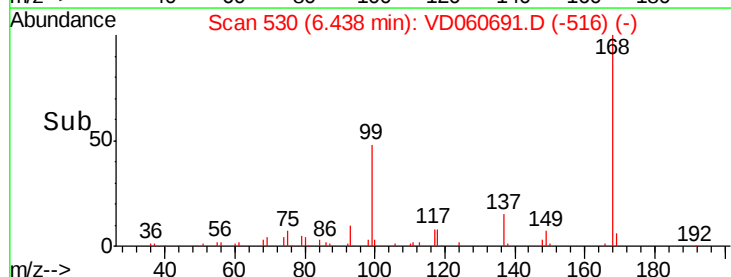
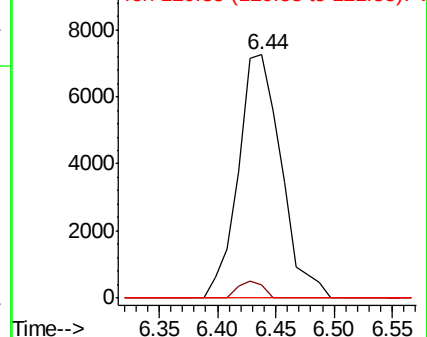
121 0.0 24.7 37.1#

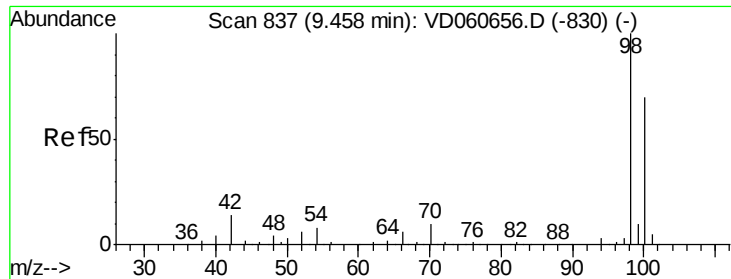


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.49 min Scan# 840

Delta R.T. 0.03 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

Instrument :

MSVOA\_D

ClientSampleId :

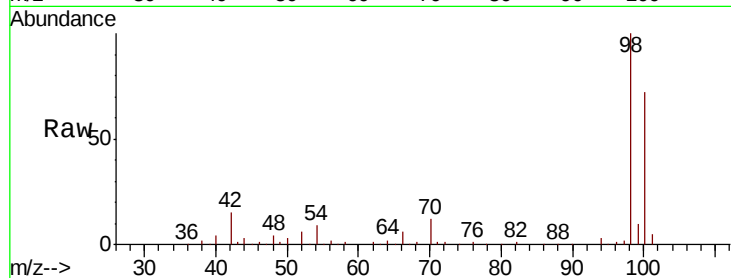
337-SOIL

Tot Ion: 98 Resp: 456338

Ion Ratio Lower Upper

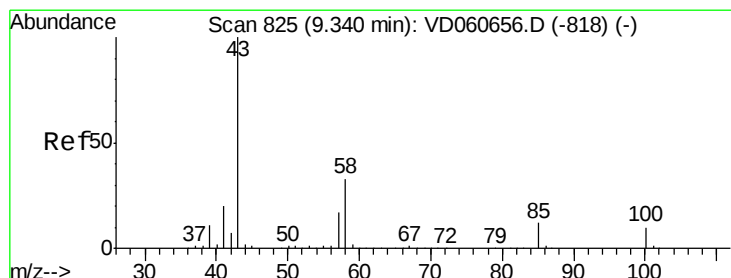
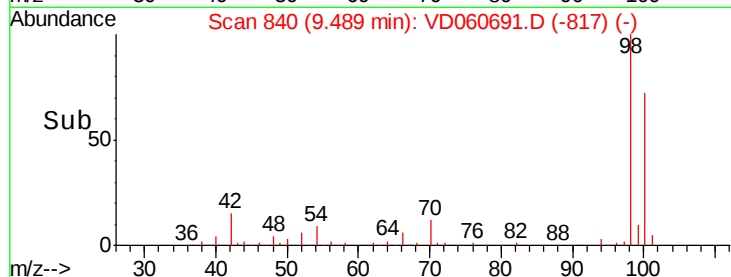
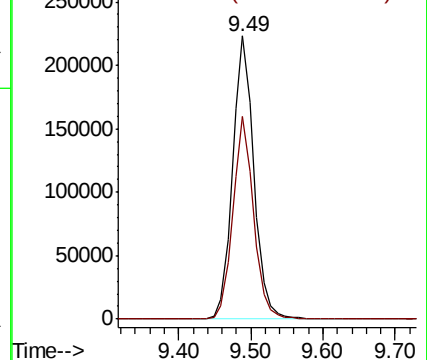
98 100

100 71.7 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 2.001 ug/l

RT: 9.48 min Scan# 839

Delta R.T. 0.14 min

Lab File: VD060691.D

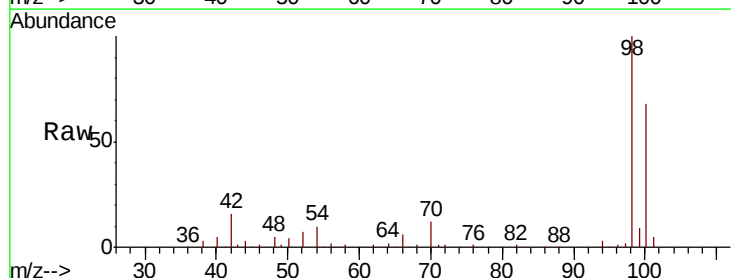
Acq: 21 Dec 2018 18:39

Tgt Ion: 43 Resp: 2728

Ion Ratio Lower Upper

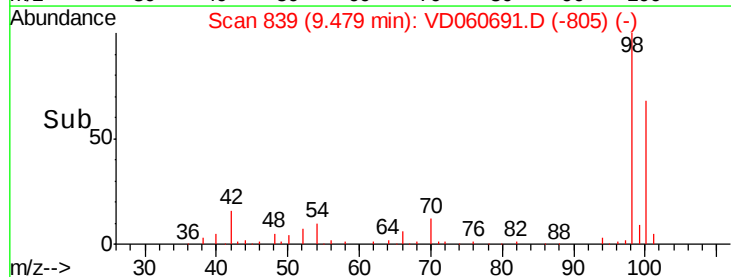
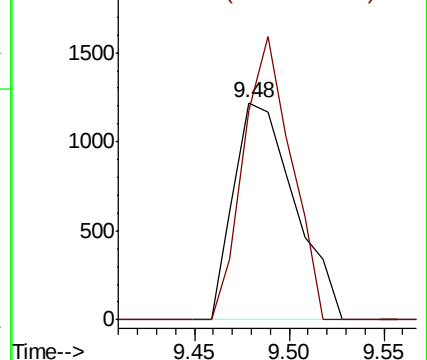
43 100

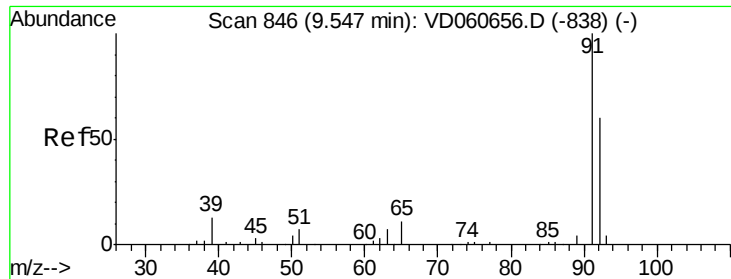
58 96.5 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 3.848 ug/l

RT: 9.58 min Scan# 849

Delta R.T. 0.03 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

Instrument :

MSVOA\_D

ClientSampleId :

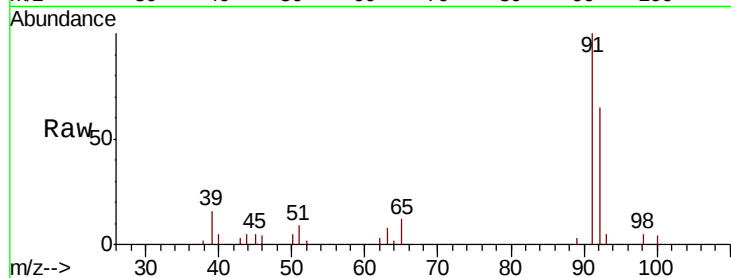
337-SOIL

Tot Ion: 92 Resp: 25840

Ion Ratio Lower Upper

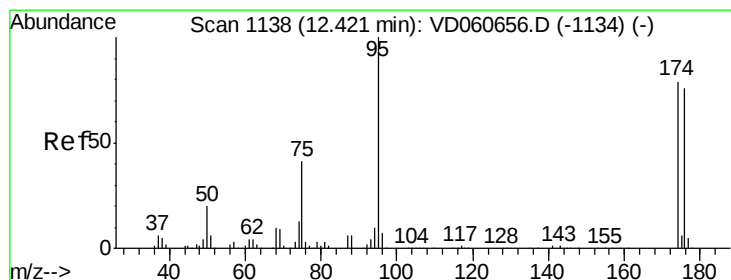
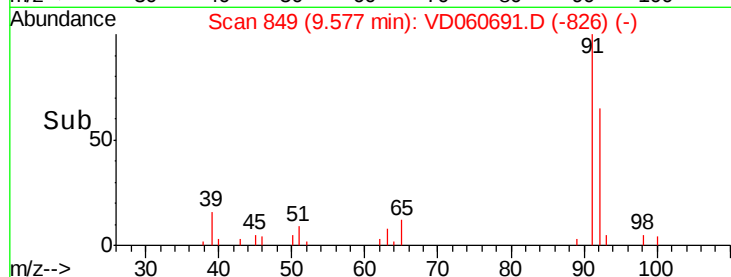
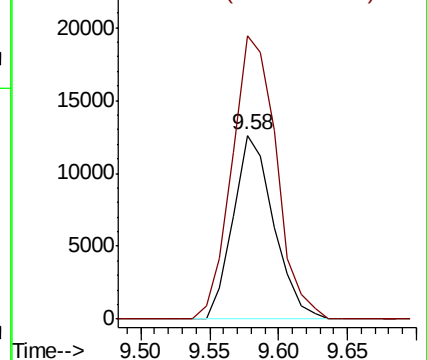
92 100

91 153.8 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.45 min Scan# 1141

Delta R.T. 0.03 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

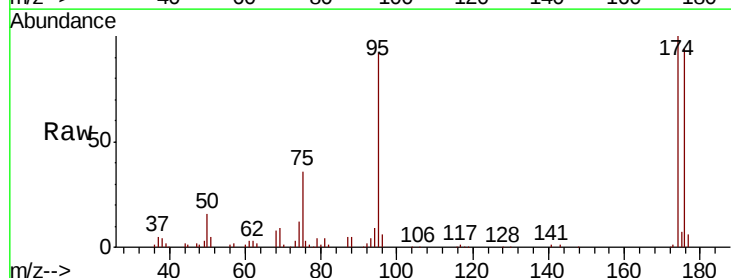
Tgt Ion: 95 Resp: 178028

Ion Ratio Lower Upper

95 100

174 109.2 0.0 158.2

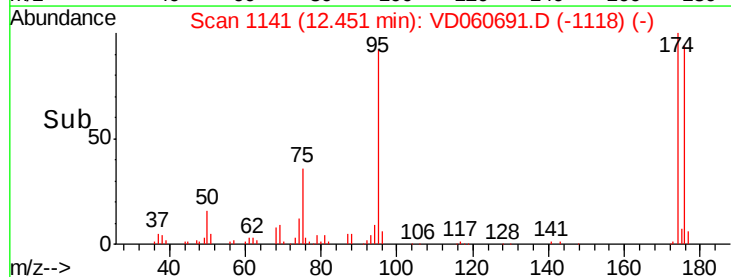
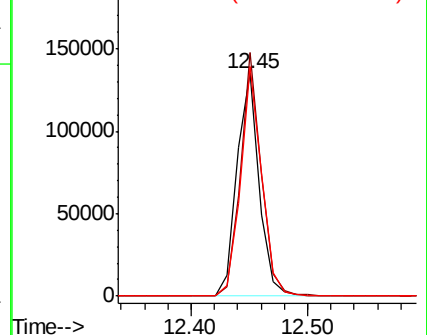
176 102.7 0.0 152.4

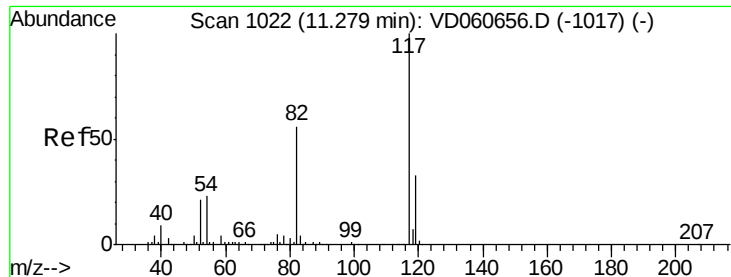


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

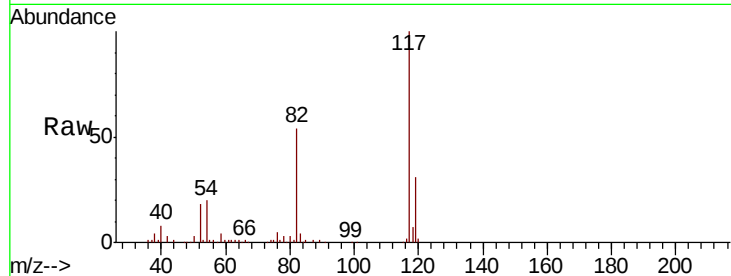




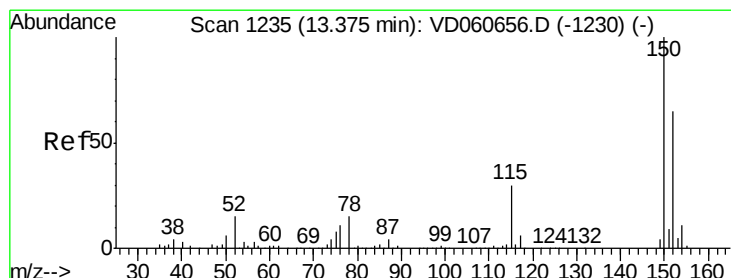
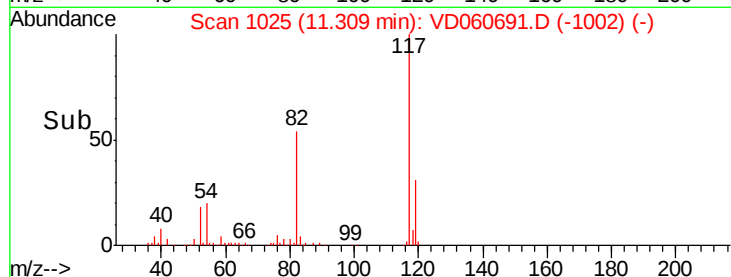
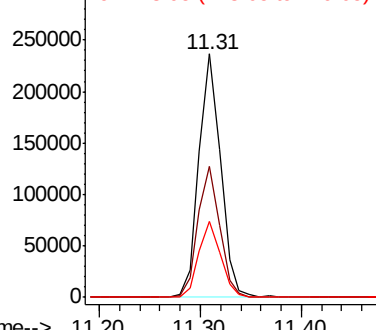
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.31 min Scan# 1025  
Delta R.T. 0.03 min  
Lab File: VD060691.D  
Acq: 21 Dec 2018 18:39

Instrument :  
MSVOA\_D  
ClientSampled :  
337-SOIL

Tot Ion:117 Resp: 354232  
Ion Ratio Lower Upper  
117 100  
82 53.8 44.5 66.7  
119 31.3 26.3 39.5

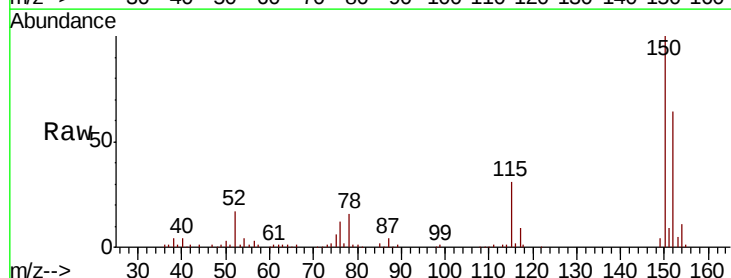


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

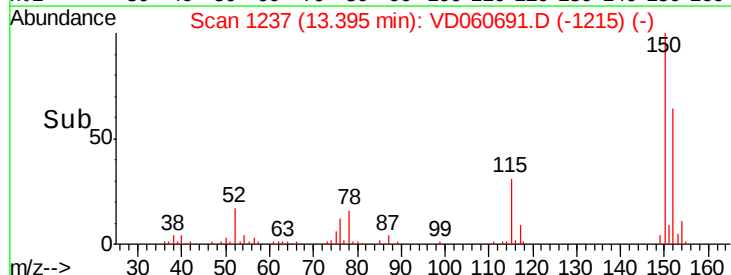
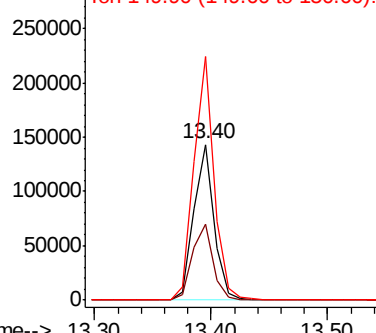


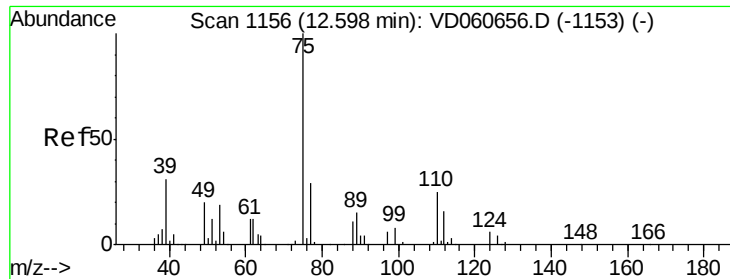
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.40 min Scan# 1237  
Delta R.T. 0.02 min  
Lab File: VD060691.D  
Acq: 21 Dec 2018 18:39

Tgt Ion:152 Resp: 172838  
Ion Ratio Lower Upper  
152 100  
115 48.6 24.1 72.3  
150 156.8 0.0 315.0



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





#76

1,2,3-Trichloropropane

Concen: 37.936 ug/l

RT: 12.45 min Scan# 1141

Delta R.T. -0.15 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

Instrument :

MSVOA\_D

ClientSampled :

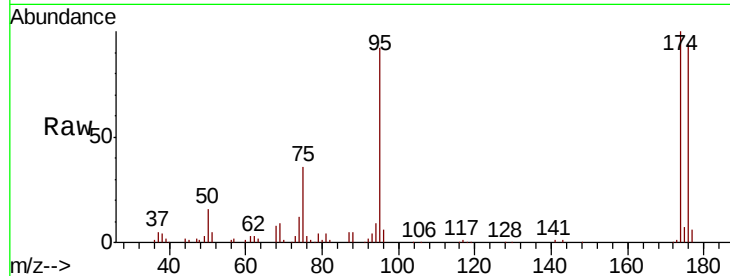
337-SOIL

Tot Ion: 75 Resp: 74648

Ion Ratio Lower Upper

75 100

77 1.6 16.7 50.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

12.45

60000

50000

40000

30000

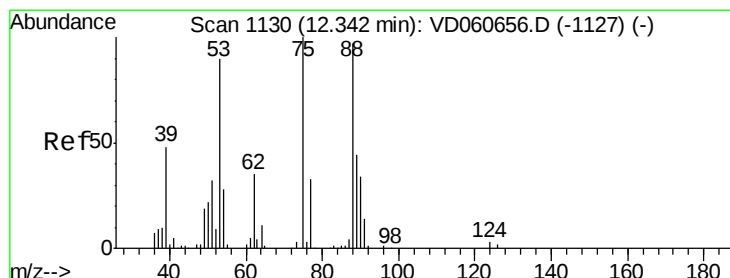
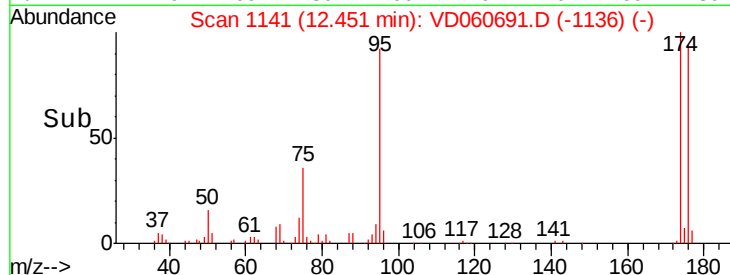
20000

10000

0

Time-->

12.40 12.45 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 137.706 ug/l

RT: 12.45 min Scan# 1141

Delta R.T. 0.11 min

Lab File: VD060691.D

Acq: 21 Dec 2018 18:39

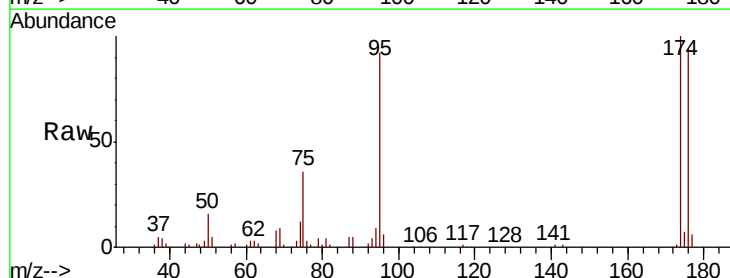
Tgt Ion: 75 Resp: 74875

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

89 0.0 35.1 52.7#



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

60000

40000

20000

0

Time-->

12.40 12.45 12.50

