

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031320\  
 Data File : VD065505.D  
 Acq On : 13 Mar 2020 15:50  
 Operator : VA/SY  
 Sample : L1933-04  
 Misc : 9.89G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Mar 16 01:44:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

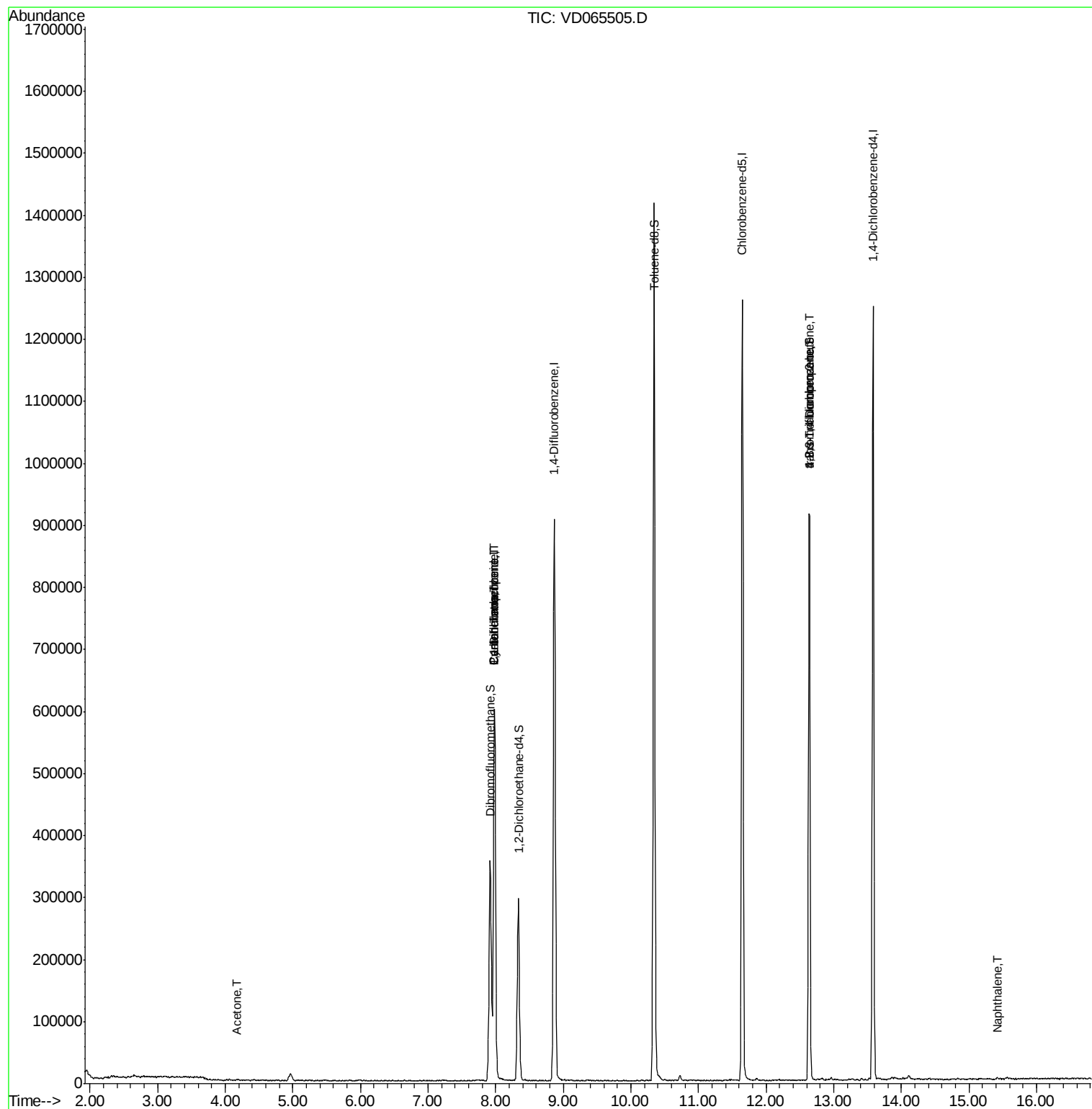
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 477833   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 794807   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 752758   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 339301   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 225037   | 54.90     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.80% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 251266   | 51.12     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.24% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 968741   | 51.37     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.74% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 296226   | 50.89     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 101.78% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 5) Bromomethane                | 2.79  | 94   | 653      | Below Cal | #       | 78       |
| 16) Acetone                    | 4.17  | 43   | 2436     | 2.939     | ug/l    | 89       |
| 20) Methylene Chloride         | 4.96  | 84   | 9600     | Below Cal |         | 93       |
| 31) Cyclohexane                | 7.98  | 56   | 8841     | 1.086     | ug/l #  | 15       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 32554    | 4.273     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 44202    | 5.595     | ug/l #  | 19       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 142062   | 53.060    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 142062   | 111.973   | ug/l #  | 14       |
| 95) Naphthalene                | 15.41 | 128  | 1332     | 4.518     | ug/l #  | 64       |

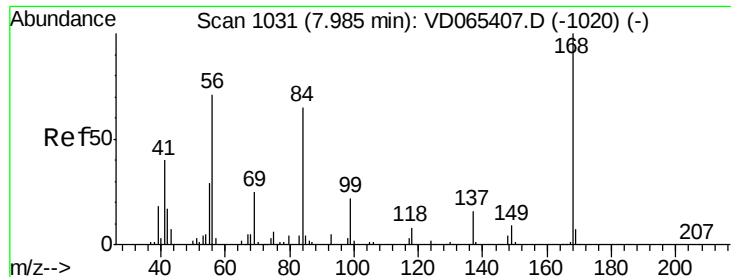
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031320\  
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Operator : VA/SY  
Sample : L1933-04  
Misc : 9.89G/5.00ml/MSVOA D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Mar 16 01:44:40 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 01:22:07 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

Instrument :

MSVOA\_D

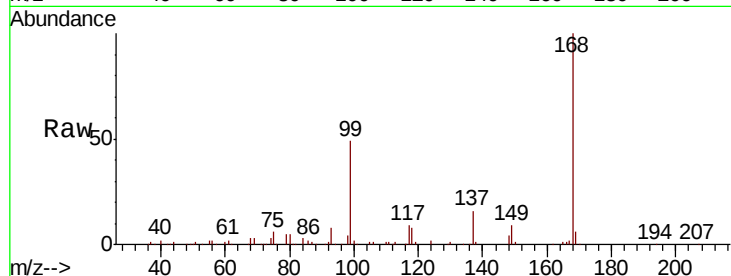
ClientSampled :

Tot Ion:168 Resp: 477833

Ion Ratio Lower Upper

168 100

99 49.1 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

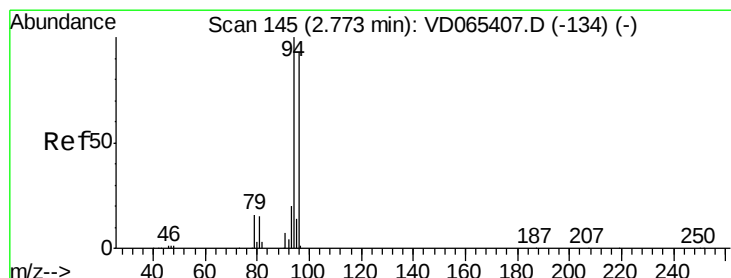
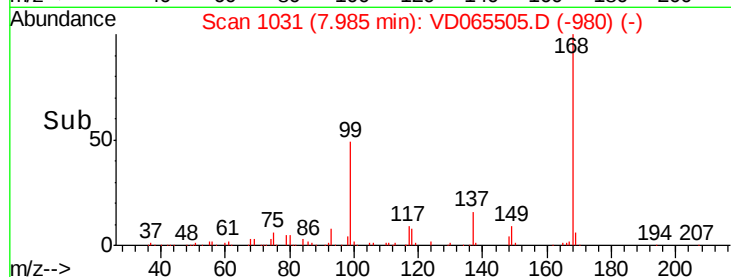
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065505.D

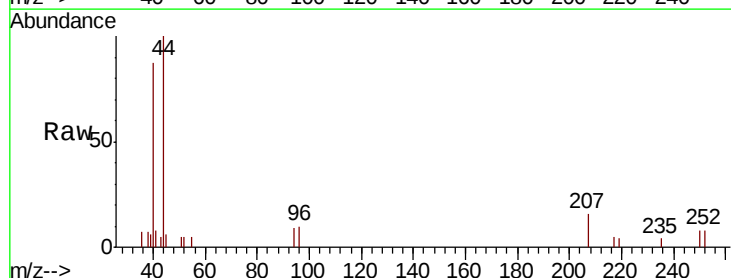
Acq: 13 Mar 2020 15:50

Tgt Ion: 94 Resp: 653

Ion Ratio Lower Upper

94 100

96 114.2 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

600

500

400

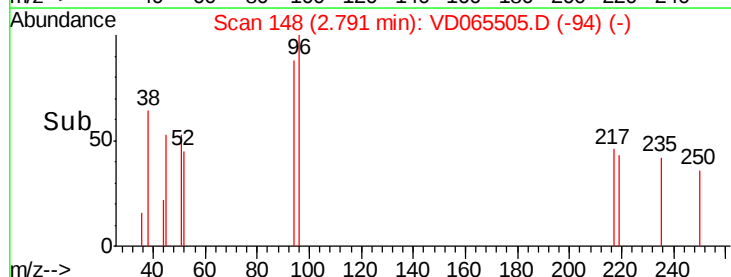
300

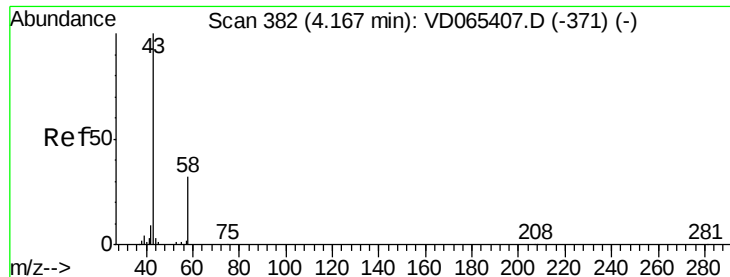
200

100

0

Time-->





#16

Acetone

Concen: 2.939 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

Instrument :

MSVOA\_D

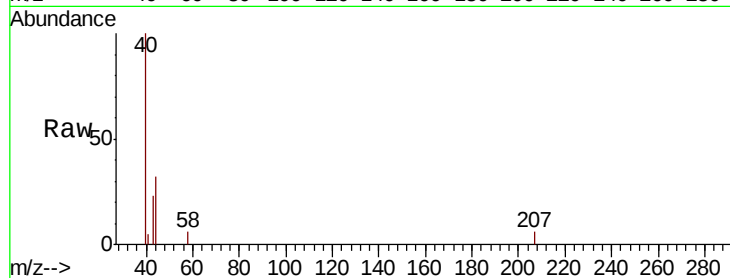
ClientSampled :

Tot Ion: 43 Resp: 2436

Ion Ratio Lower Upper

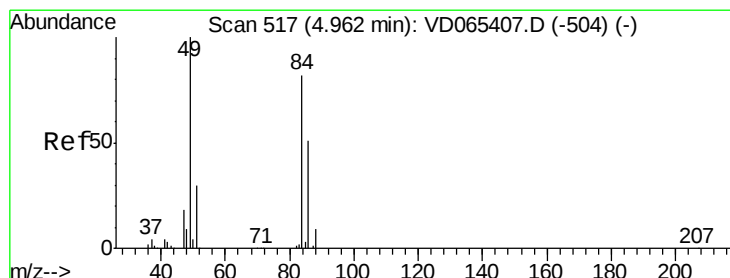
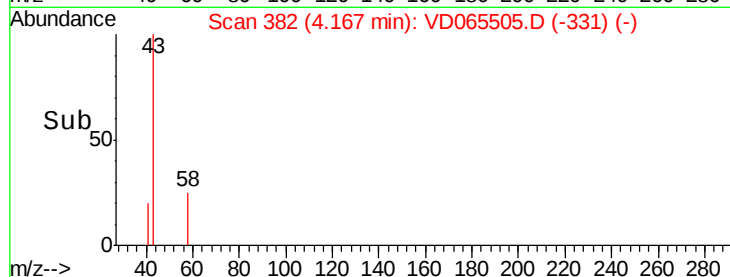
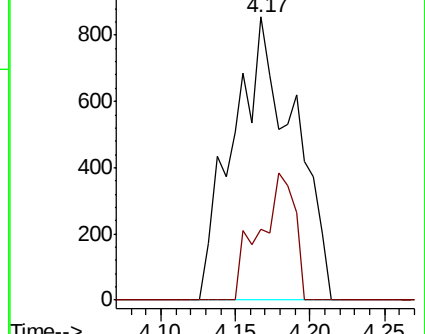
43 100

58 25.1 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

Tgt Ion: 84 Resp: 9600

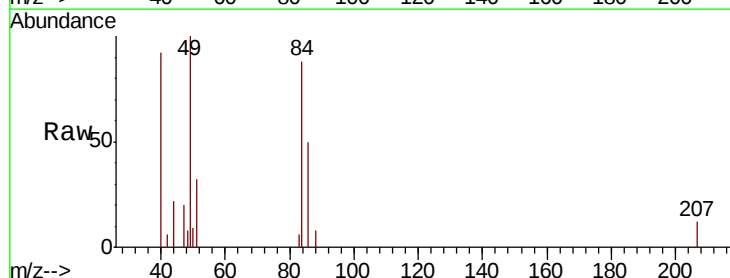
Ion Ratio Lower Upper

84 100

49 113.1 97.7 146.5

51 36.3 28.8 43.2

86 56.3 49.5 74.3

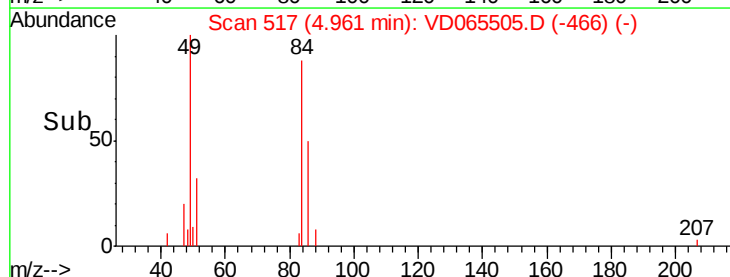
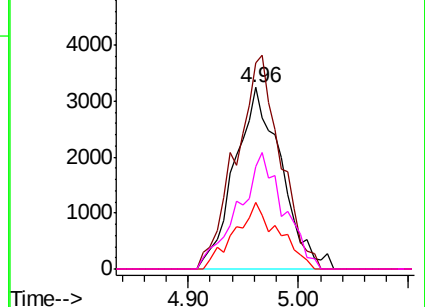


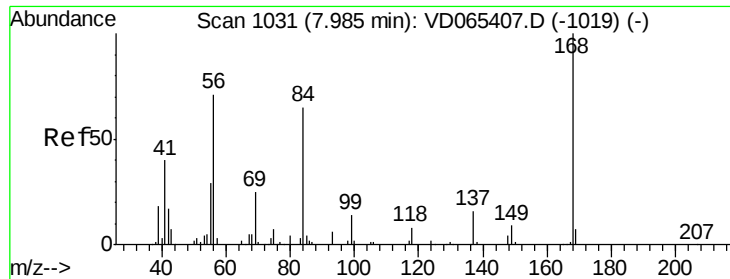
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

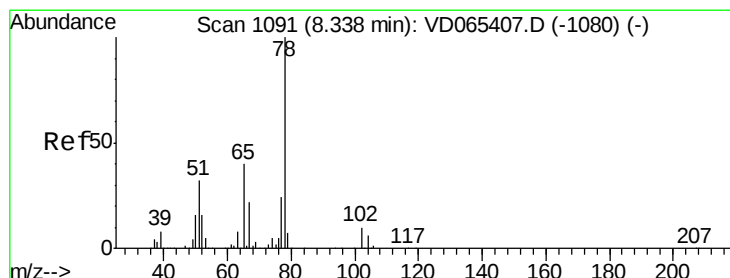
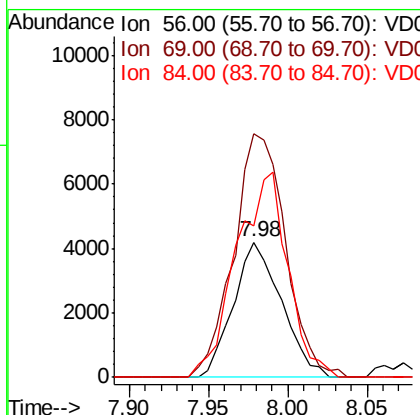
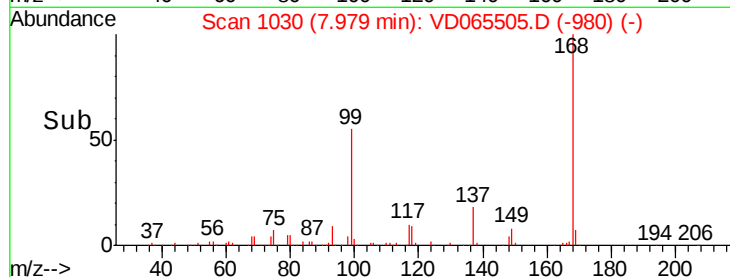
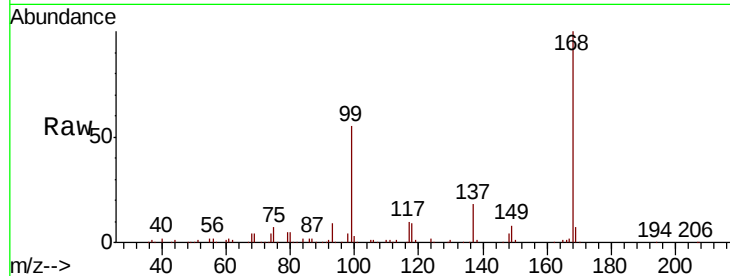




#31  
Cyclohexane  
Concen: 1.086 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD065505.D  
Acq: 13 Mar 2020 15:50

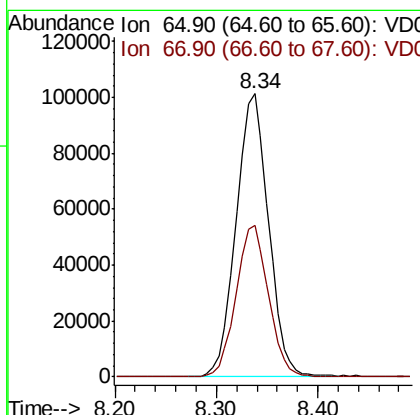
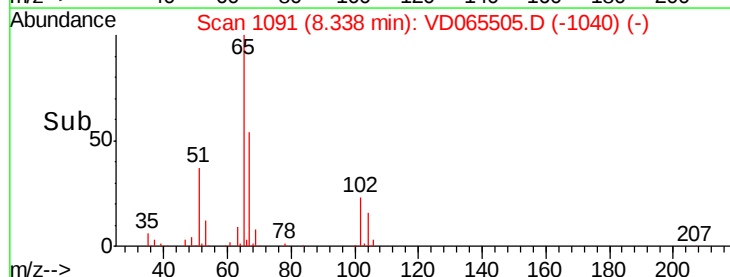
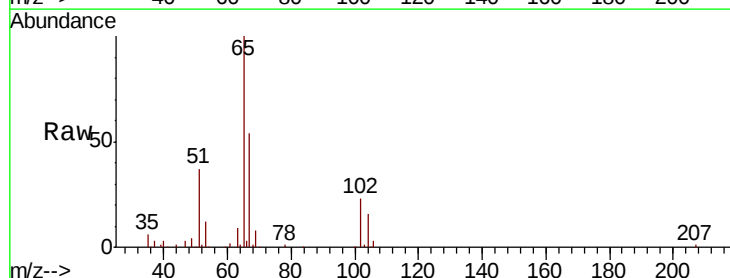
Instrument :  
MSVOA\_D  
ClientSampled :

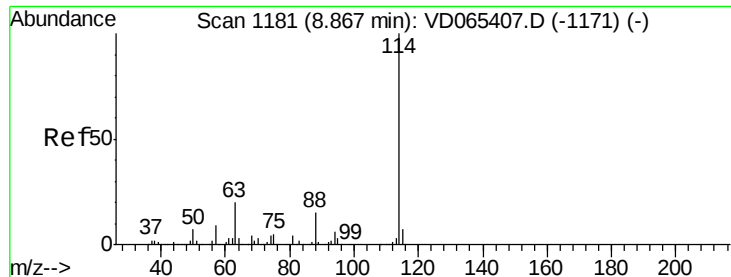
Tot Ion: 56 Resp: 8841  
Ion Ratio Lower Upper  
56 100  
69 180.1 28.3 42.5#  
84 112.1 73.1 109.7#



#33  
1,2-Dichloroethane-d4  
Concen: 54.902 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. -0.00 min  
Lab File: VD065505.D  
Acq: 13 Mar 2020 15:50

Tgt Ion: 65 Resp: 225037  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 108.0

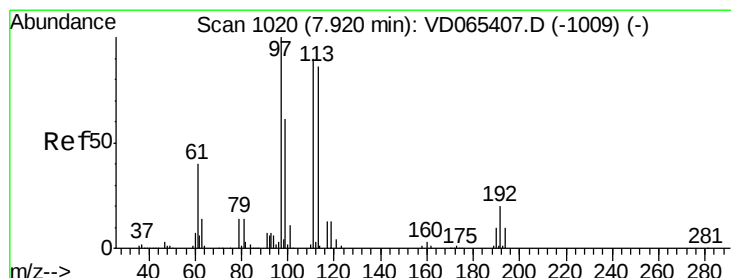
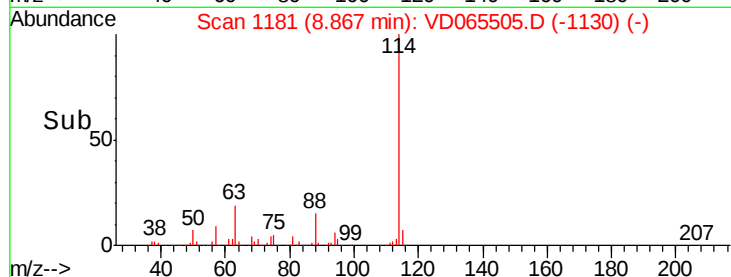
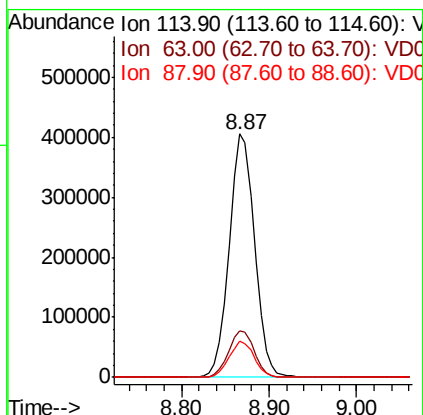
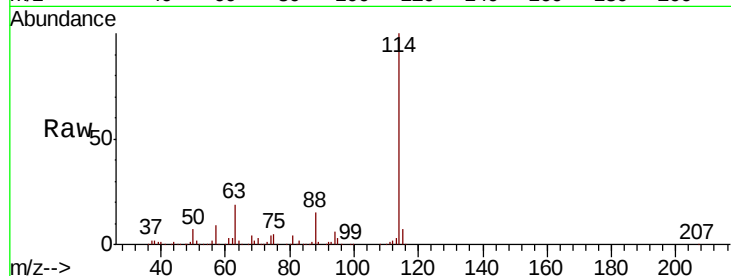




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065505.D  
 Acq: 13 Mar 2020 15:50

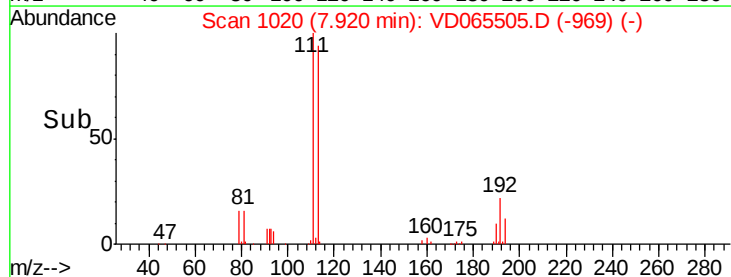
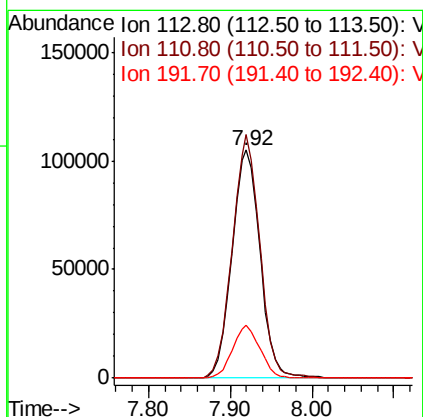
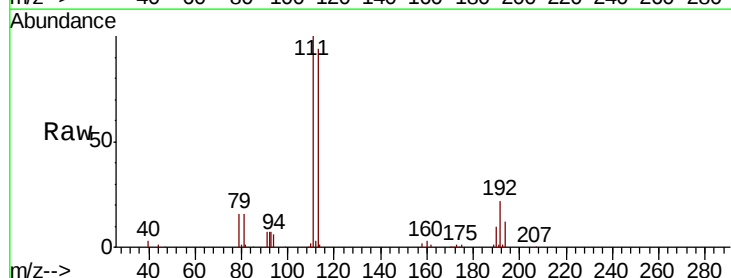
Instrument :  
 MSVOA\_D  
 ClientSampleId :

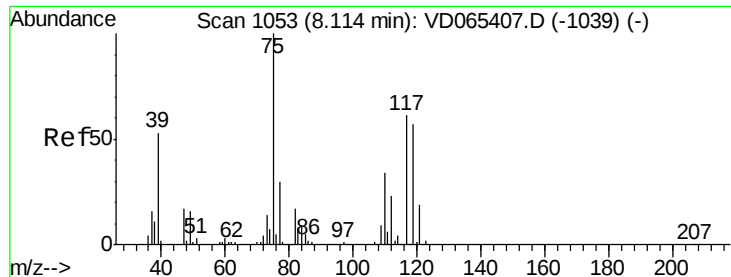
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.0  | 0.0   | 39.6  |
| 88      | 14.7  | 0.0   | 30.4  |



#35  
 Dibromofluoromethane  
 Concen: 51.121 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065505.D  
 Acq: 13 Mar 2020 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.1 | 82.1  | 123.1 |
| 192     | 22.5  | 17.2  | 25.8  |

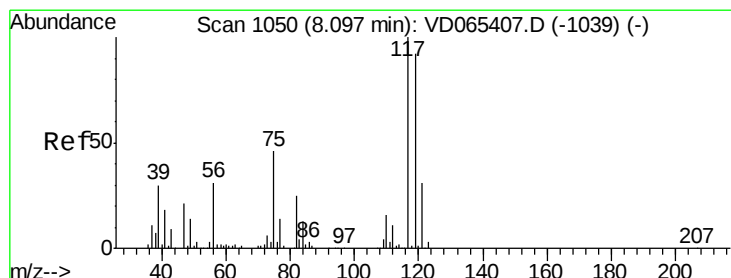
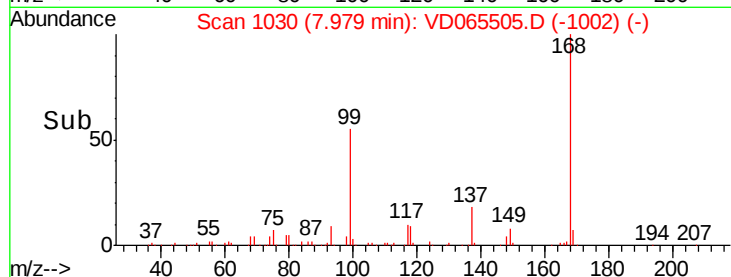
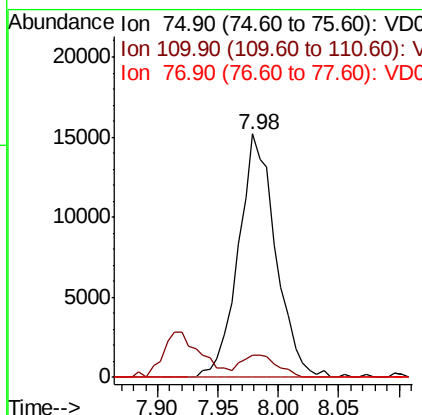
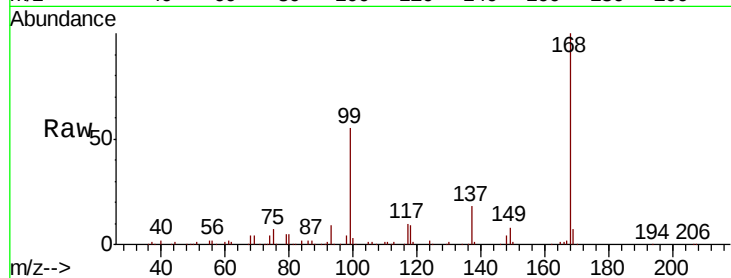




#36  
 1,1-Dichloropropene  
 Concen: 4.273 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD065505.D  
 Acq: 13 Mar 2020 15:50

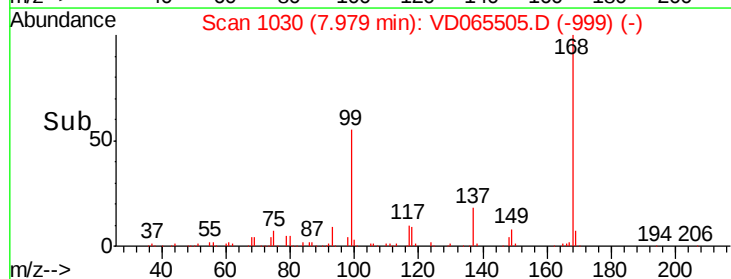
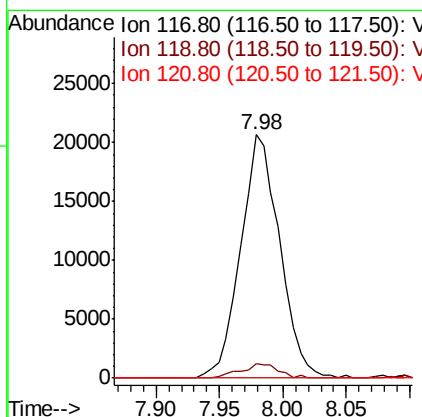
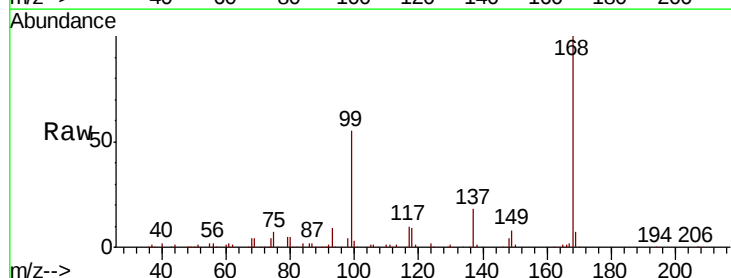
Instrument :  
 MSVOA\_D  
 ClientSampleId :

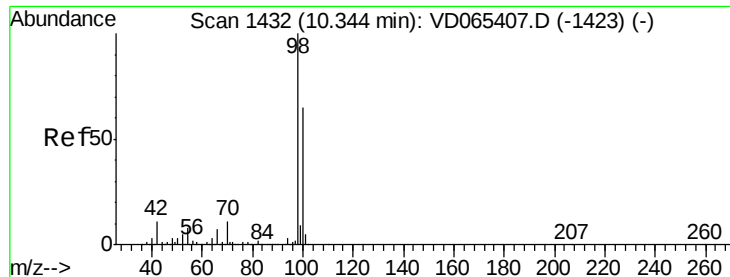
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 18.1  | 54.1# |
| 77      | 0.0   | 25.2  | 37.8# |



#38  
 Carbon Tetrachloride  
 Concen: 5.595 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.12 min  
 Lab File: VD065505.D  
 Acq: 13 Mar 2020 15:50

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.2   | 73.3  | 109.9# |
| 121     | 0.0   | 25.0  | 37.4#  |





#50

Toluene-d8

Concen: 51.375 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

Instrument :

MSVOA\_D

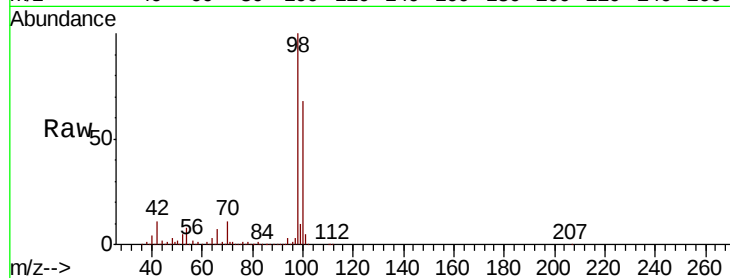
ClientSampleId :

Tot Ion: 98 Resp: 968741

Ion Ratio Lower Upper

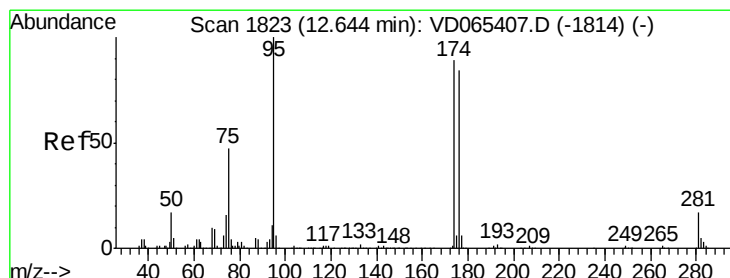
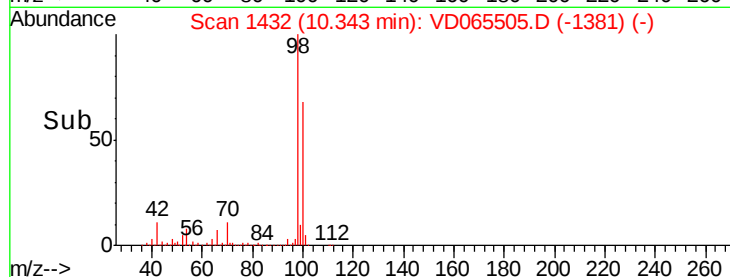
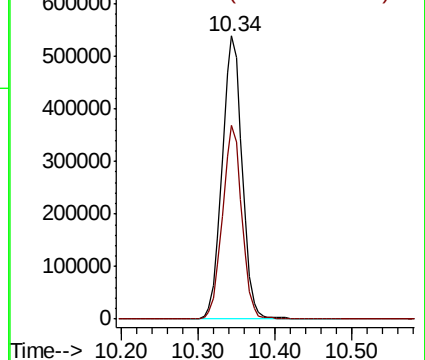
98 100

100 66.2 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 50.888 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

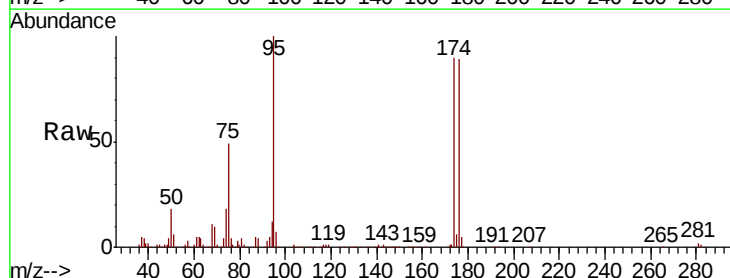
Tgt Ion: 95 Resp: 296226

Ion Ratio Lower Upper

95 100

174 92.8 0.0 176.8

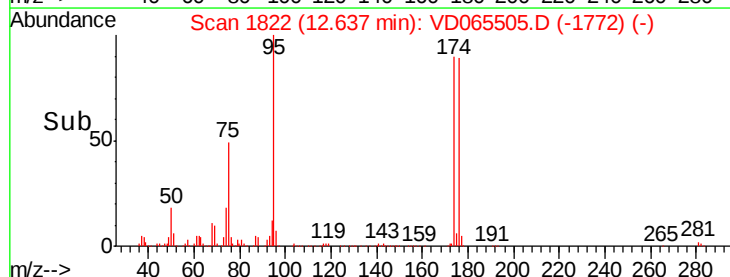
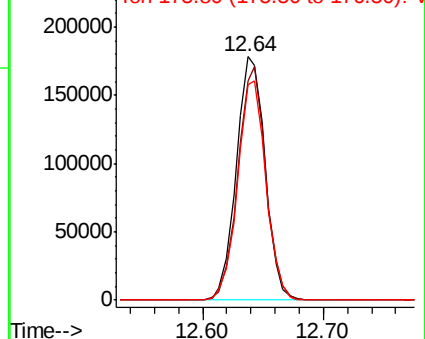
176 88.7 0.0 171.4

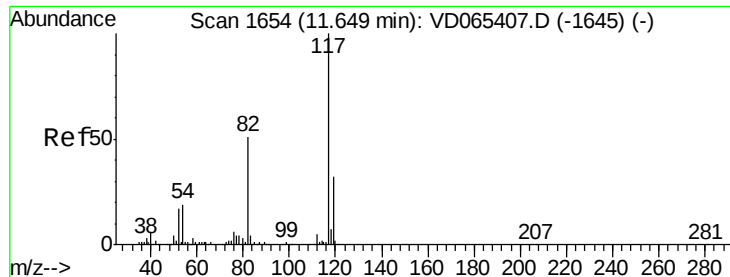


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

Instrument :

MSVOA\_D

ClientSampleId :

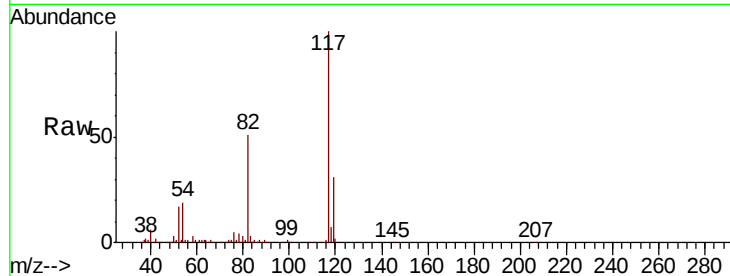
Tot Ion:117 Resp: 752758

Ion Ratio Lower Upper

117 100

82 51.0 40.6 60.8

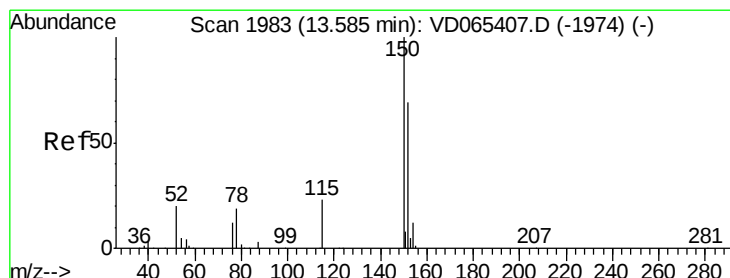
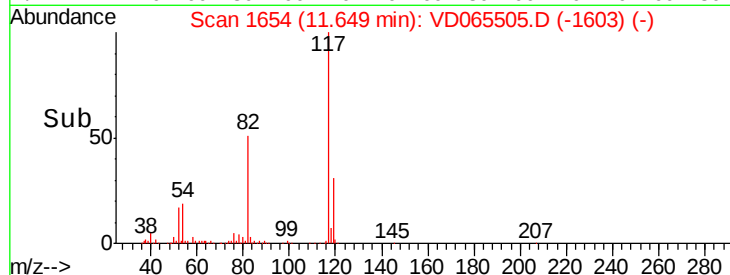
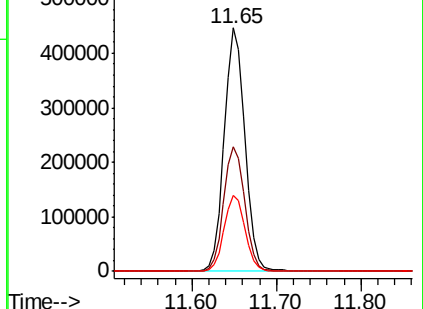
119 31.1 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

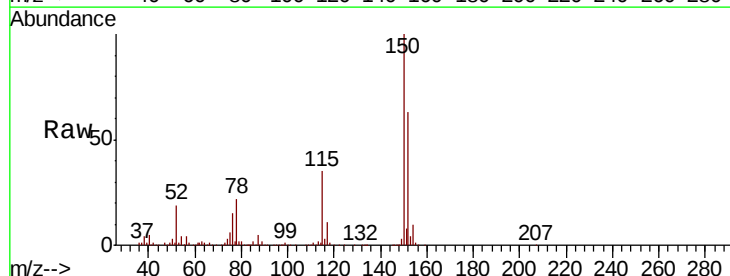
Tgt Ion:152 Resp: 339301

Ion Ratio Lower Upper

152 100

115 55.9 27.6 82.8

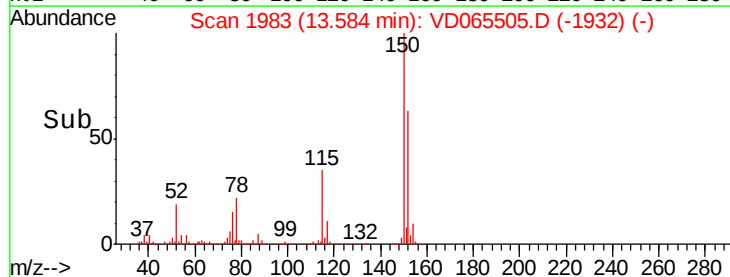
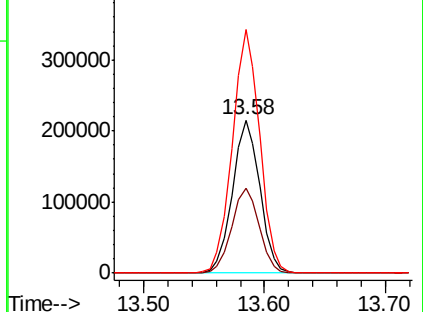
150 159.0 0.0 345.0

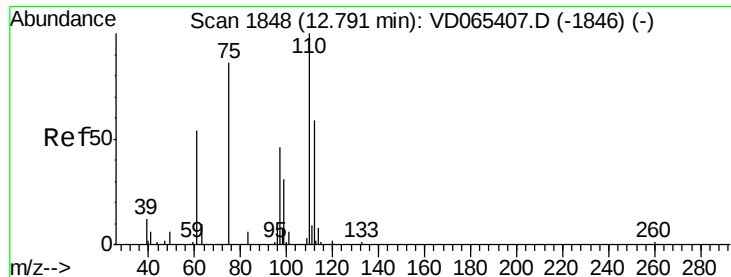


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 53.060 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

Instrument :

MSVOA\_D

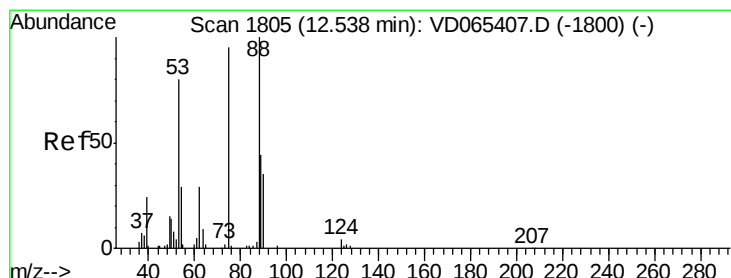
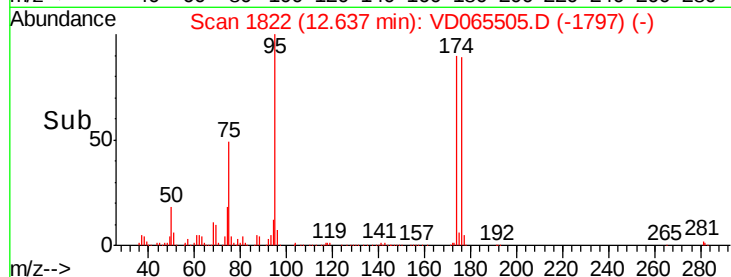
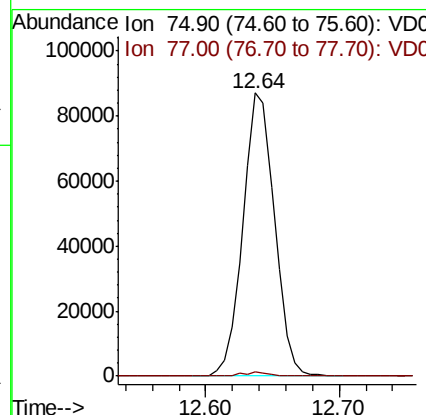
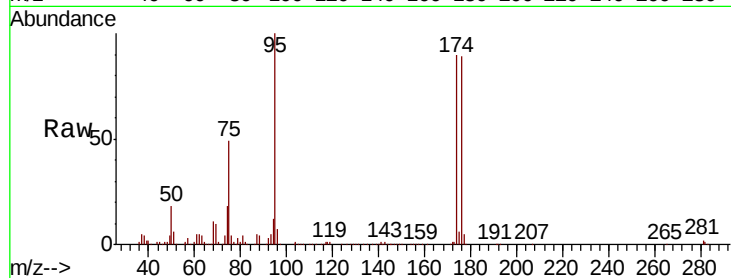
ClientSampleId :

Tot Ion: 75 Resp: 142062

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 111.973 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

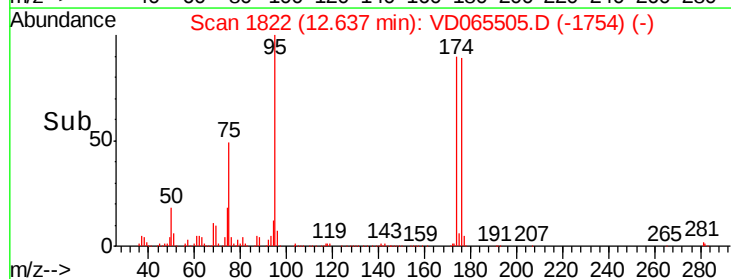
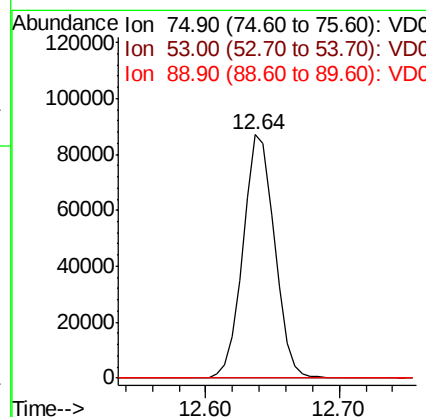
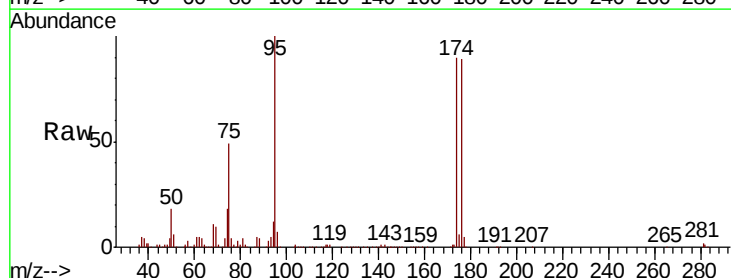
Tgt Ion: 75 Resp: 142062

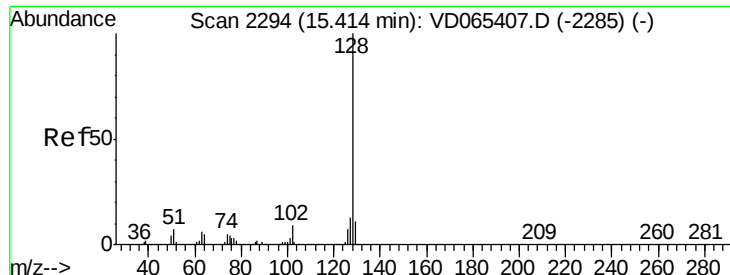
Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

89 0.0 37.0 55.6#





#95

Naphthalene

Concen: 4.518 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

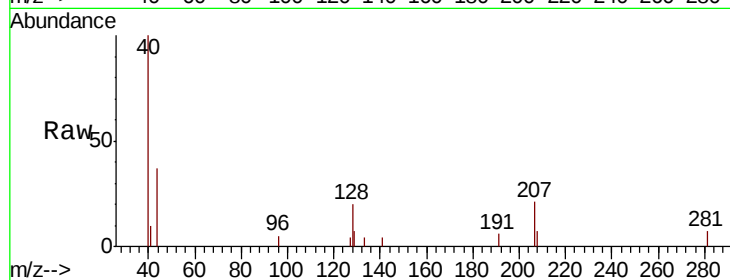
Lab File: VD065505.D

Acq: 13 Mar 2020 15:50

Instrument :

MSVOA\_D

ClientSampleId :



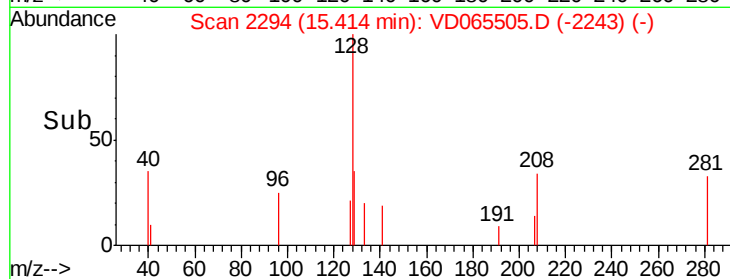
Tot Ion:128 Resp: 1332

Ion Ratio Lower Upper

128 100

127 4.3 10.6 16.0#

129 31.2 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

