

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012020\  
 Data File : VD064897.D  
 Acq On : 20 Jan 2020 18:28  
 Operator : VA/SY  
 Sample : L1189-01RE  
 Misc : 5.85G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 21 04:11:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

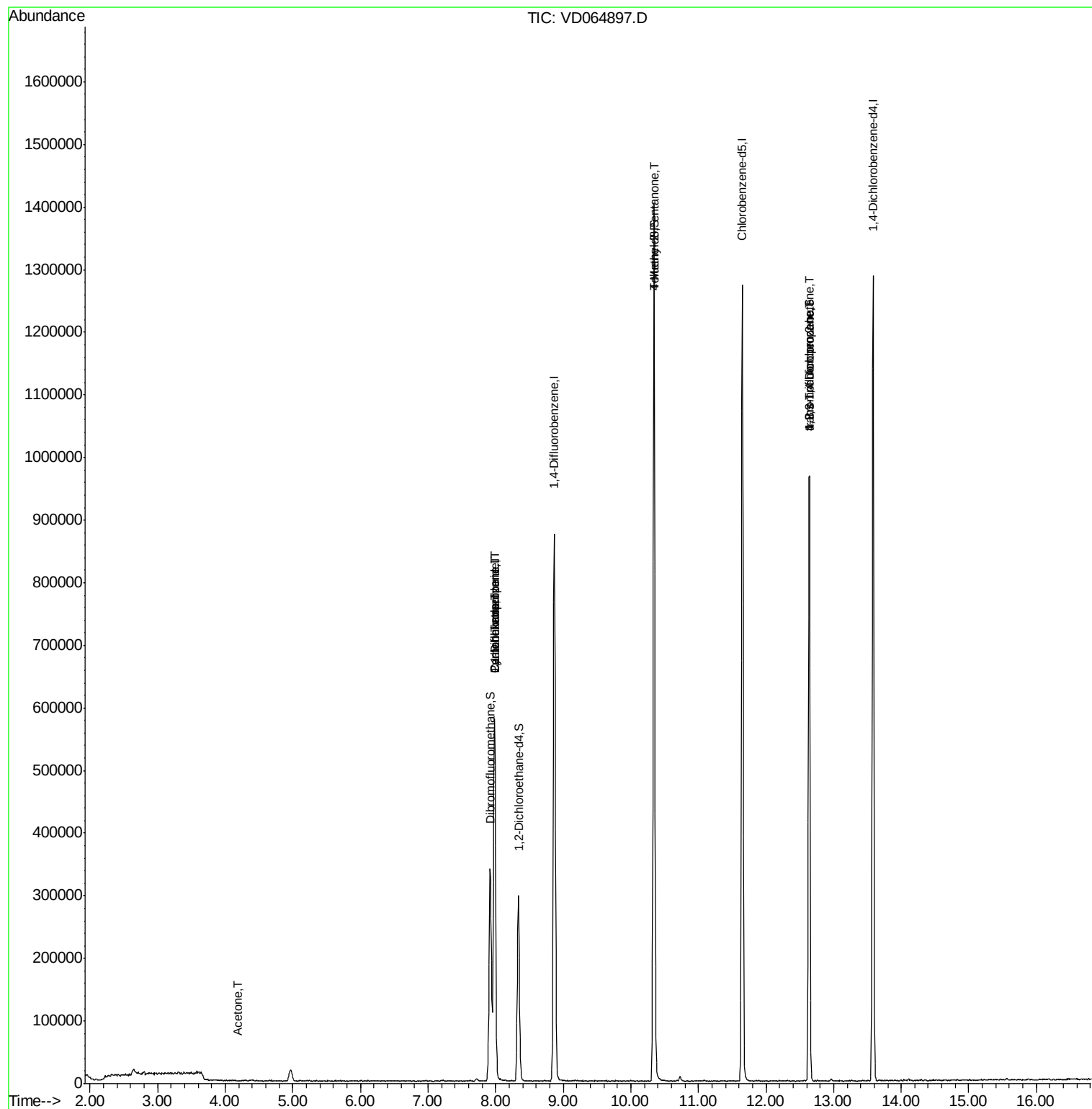
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 440368   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 743913   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 700816   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 336625   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 236309   | 60.86     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 121.72% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 238938   | 52.35     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.70% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 923039   | 52.81     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.62% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 292580   | 52.93     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.86% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 16) Acetone                    | 4.18  | 43   | 1136     | 5.414     | ug/l #  | 42       |
| 20) Methylene Chloride         | 4.97  | 84   | 13803    | Below Cal |         | 94       |
| 31) Cyclohexane                | 7.98  | 56   | 9879     | 1.364     | ug/l #  | 26       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 33893    | 4.734     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 43153    | 5.652     | ug/l #  | 15       |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 4391     | 1.587     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 156844   | 59.004    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 156844   | 123.405   | ug/l #  | 10       |

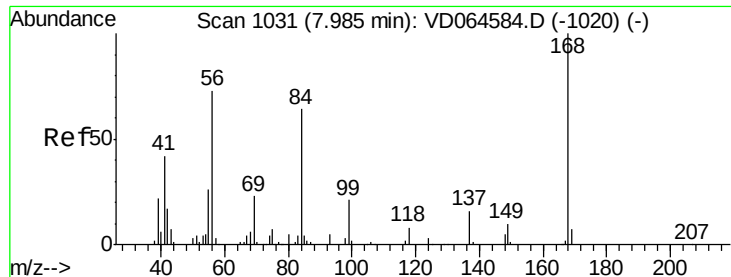
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD012020\  
Data File : VD064897.D  
Acq On : 20 Jan 2020 18:28  
Operator : VA/SY  
Sample : L1189-01RE  
Misc : 5.85G/5.00ml/MSVOA D/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jan 21 04:11:19 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 2019  
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: VD064897.D

Acq: 20 Jan 2020 18:28

Instrument :

MSVOA\_D

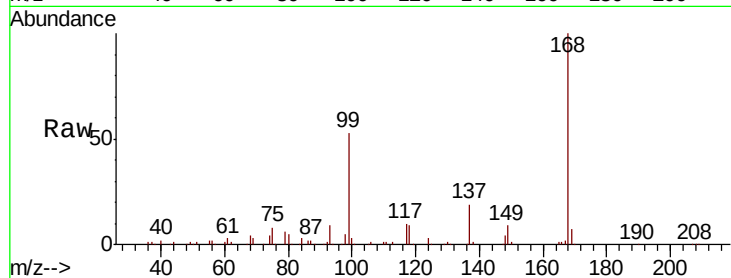
ClientSampleId :

Tot Ion:168 Resp: 440368

Ion Ratio Lower Upper

168 100

99 52.9 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

100000

50000

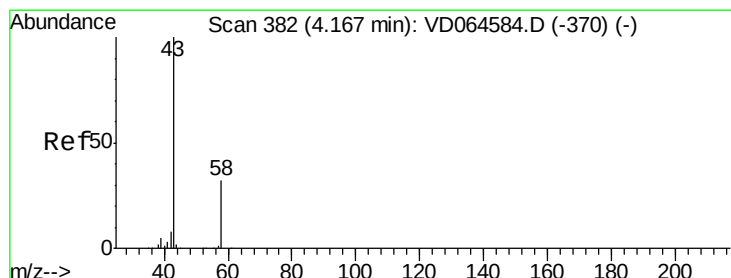
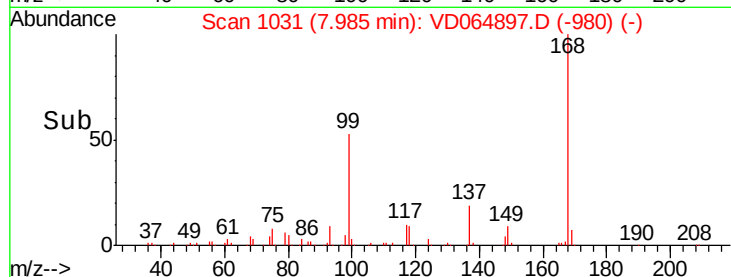
0

Time-->

7.90

8.00

8.10



#16

Acetone

Concen: 5.414 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.01 min

Lab File: VD064897.D

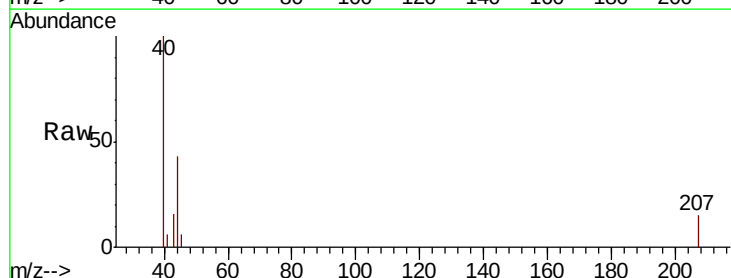
Acq: 20 Jan 2020 18:28

Tgt Ion: 43 Resp: 1136

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.18

500

400

300

200

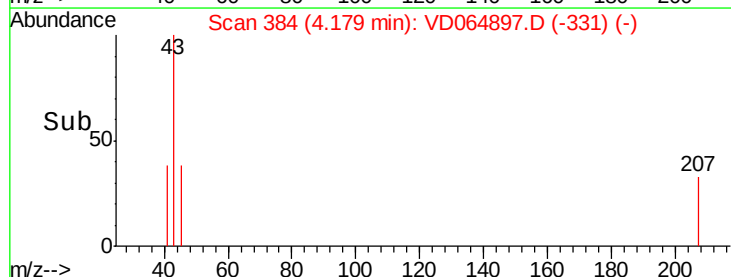
100

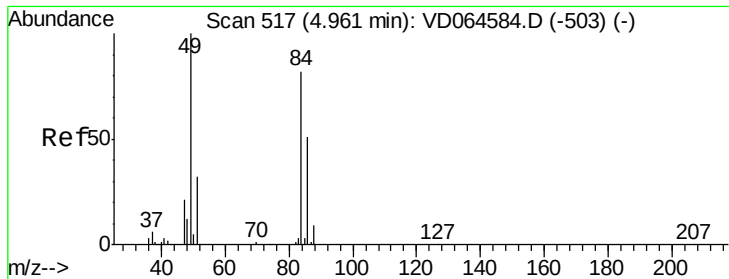
0

Time-->

4.15

4.20



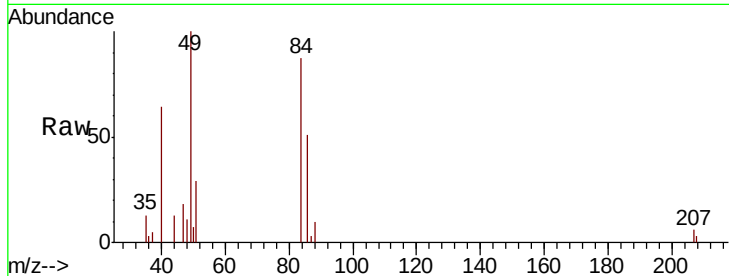


#20

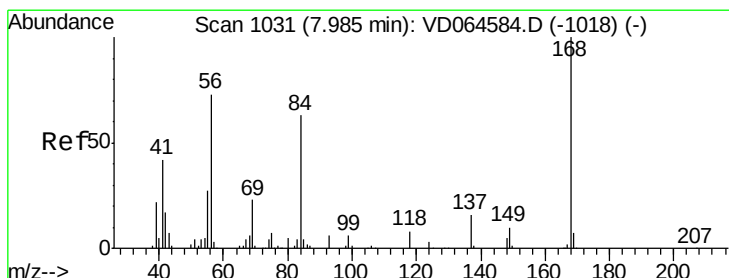
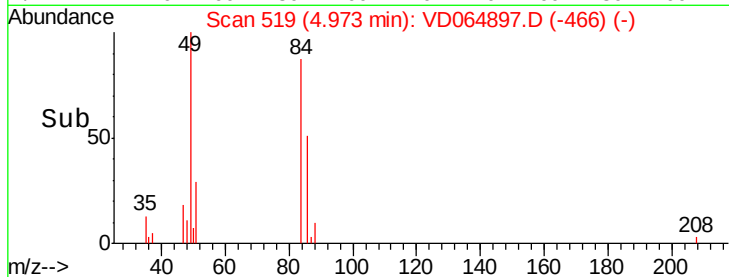
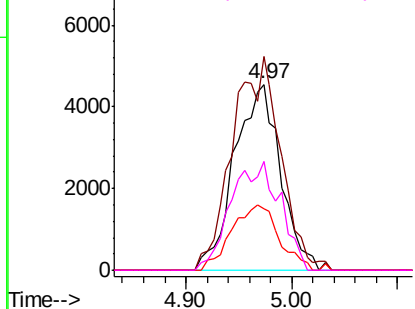
Methylene Chloride  
 Concen: Below Cal  
 RT: 4.97 min Scan# 519  
 Delta R.T. 0.01 min  
 Lab File: VD064897.D  
 Acq: 20 Jan 2020 18:28

Instrument :  
 MSVOA\_D  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 13803 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.0 | 97.2  | 145.8 |
| 51       | 33.0  | 31.4  | 47.0  |
| 86       | 58.6  | 49.3  | 73.9  |



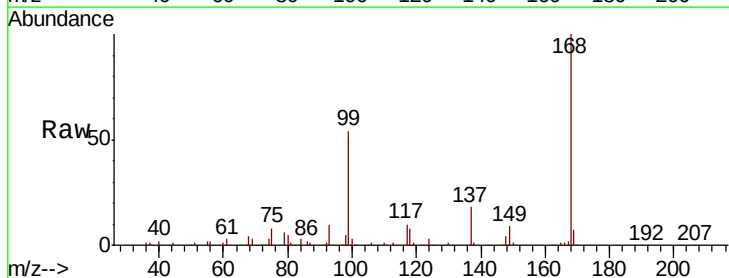
Abundance Ion 83.90 (83.60 to 84.60): VDC  
 Ion 48.90 (48.60 to 49.60): VDC  
 Ion 50.90 (50.60 to 51.60): VDC  
 Ion 85.90 (85.60 to 86.60): VDC



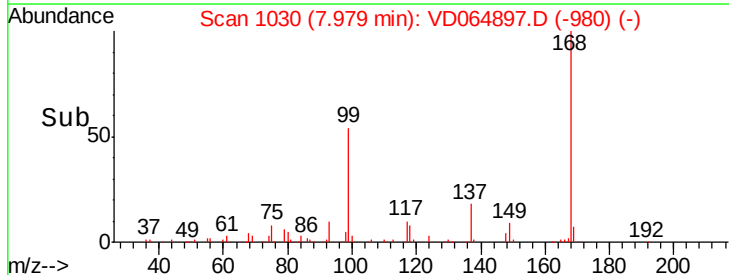
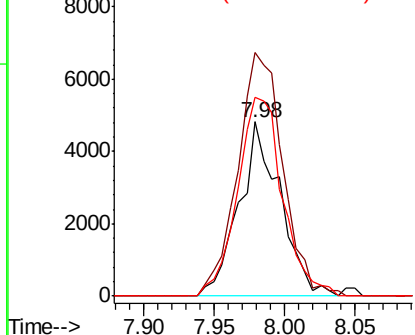
#31

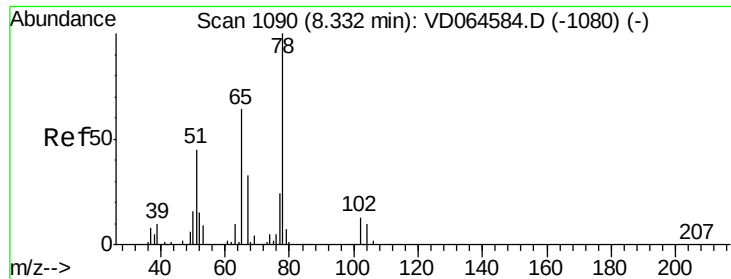
Cyclohexane  
 Concen: 1.364 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.01 min  
 Lab File: VD064897.D  
 Acq: 20 Jan 2020 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 9879   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 139.6 | 24.7  | 37.1#  |
| 84       | 114.1 | 69.4  | 104.2# |



Abundance Ion 56.00 (55.70 to 56.70): VDC  
 Ion 69.00 (68.70 to 69.70): VDC  
 Ion 84.00 (83.70 to 84.70): VDC

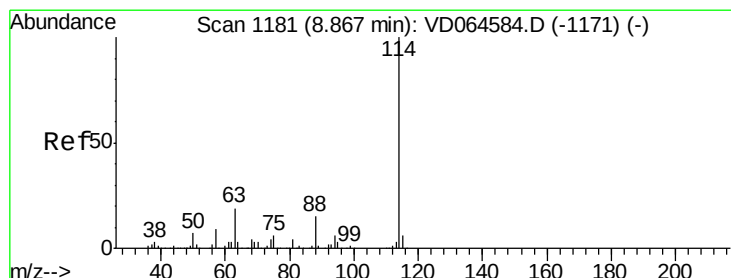
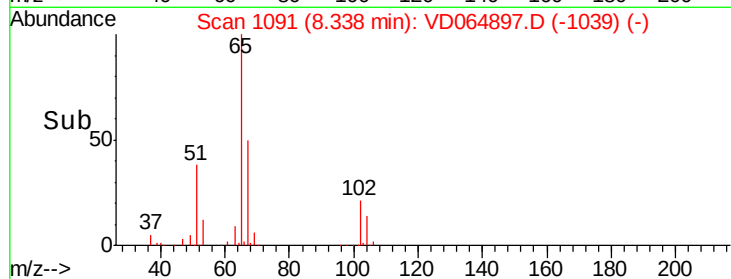
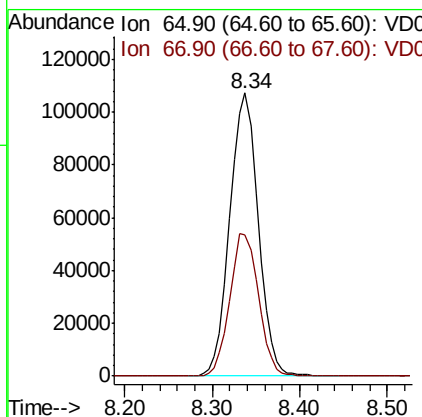
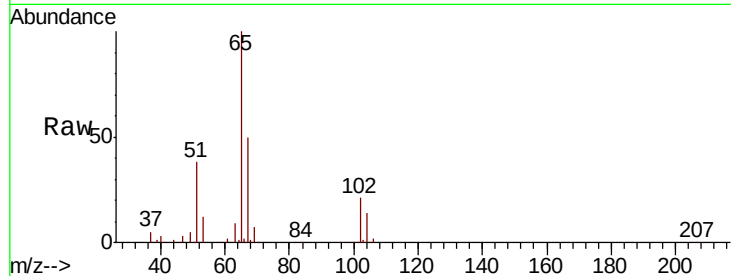




#33  
 1,2-Dichloroethane-d4  
 Concen: 60.856 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.01 min  
 Lab File: VD064897.D  
 Acq: 20 Jan 2020 18:28

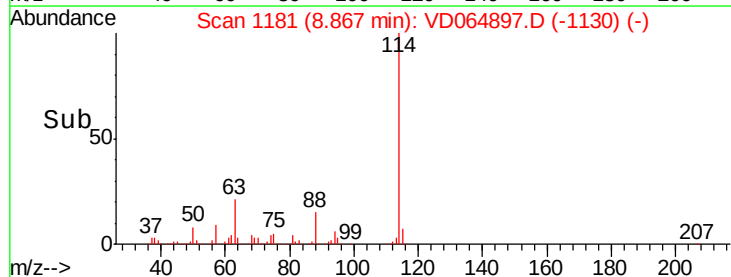
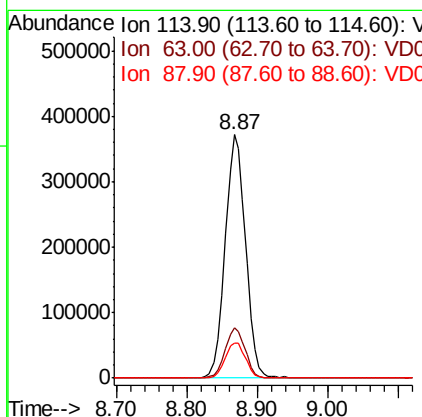
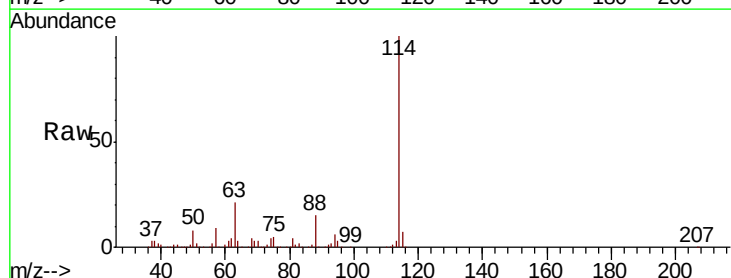
Instrument :  
 MSVOA\_D  
 ClientSampled :

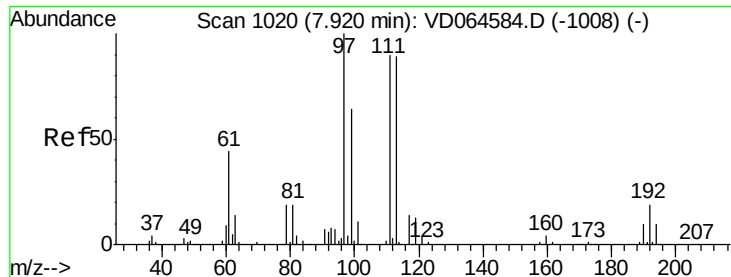
Tot Ion: 65 Resp: 236309  
 Ion Ratio Lower Upper  
 65 100  
 67 50.9 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064897.D  
 Acq: 20 Jan 2020 18:28

Tgt Ion: 114 Resp: 743913  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 38.0  
 88 14.6 0.0 29.2

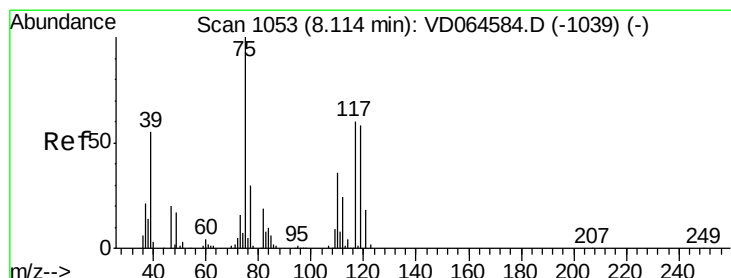
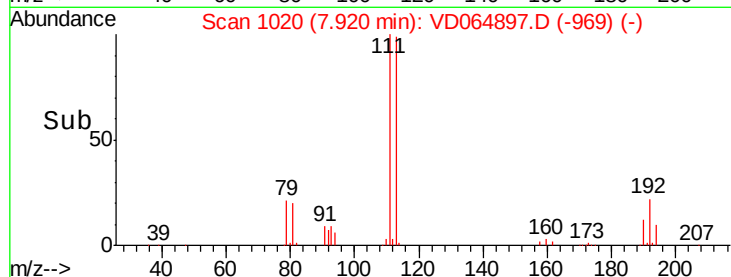
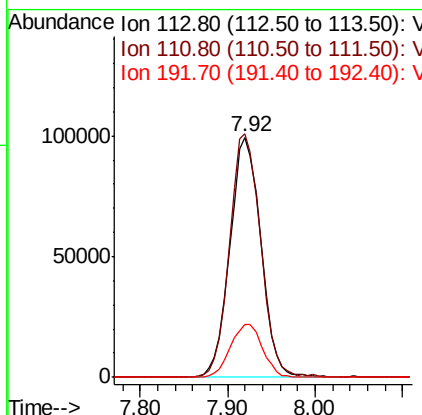
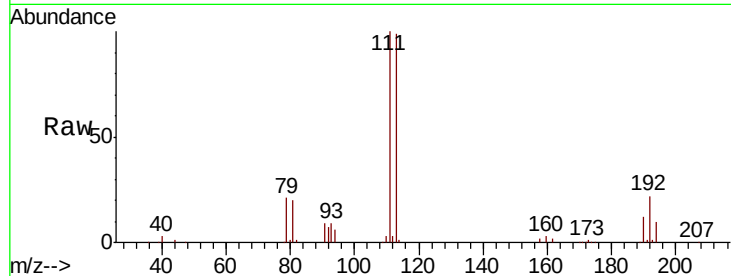




#35  
 Dibromofluoromethane  
 Concen: 52.352 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064897.D  
 Acq: 20 Jan 2020 18:28

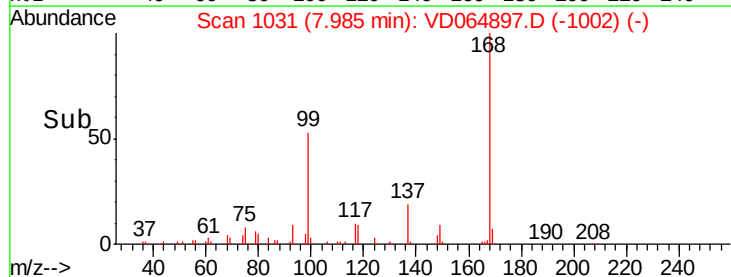
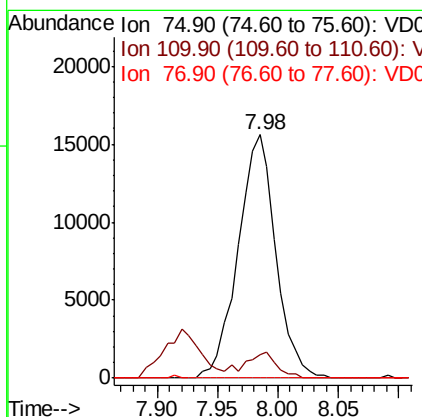
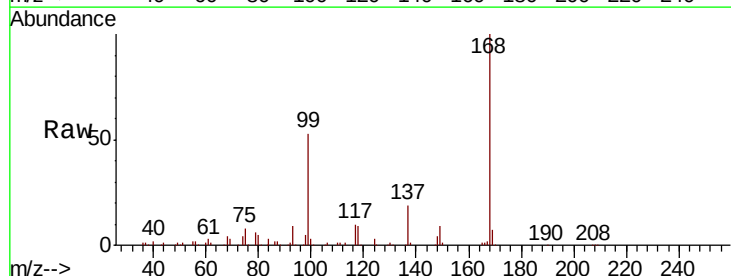
Instrument :  
 MSVOA\_D  
 ClientSampled :

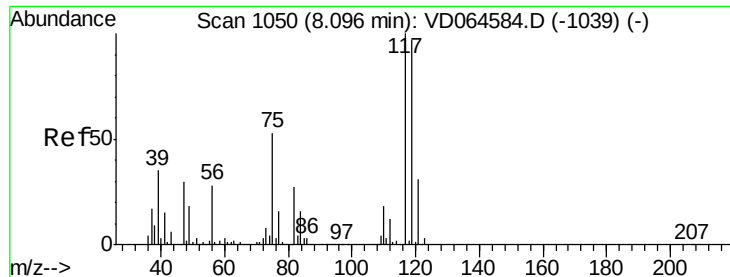
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.6 | 80.6  | 121.0 |
| 192     | 22.8  | 17.9  | 26.9  |



#36  
 1,1-Dichloropropene  
 Concen: 4.734 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064897.D  
 Acq: 20 Jan 2020 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.2   | 18.1  | 54.1# |
| 77      | 0.0   | 24.2  | 36.4# |

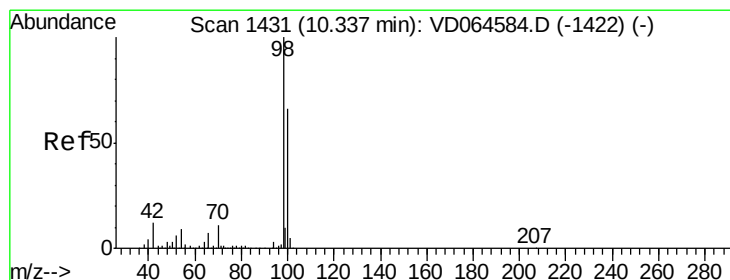
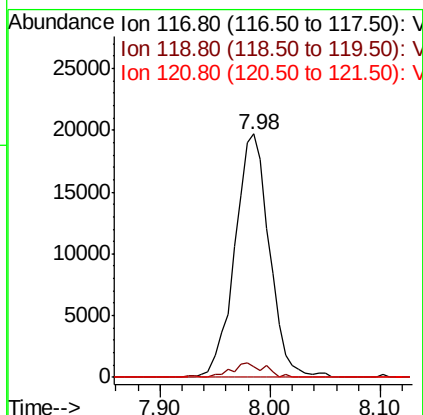
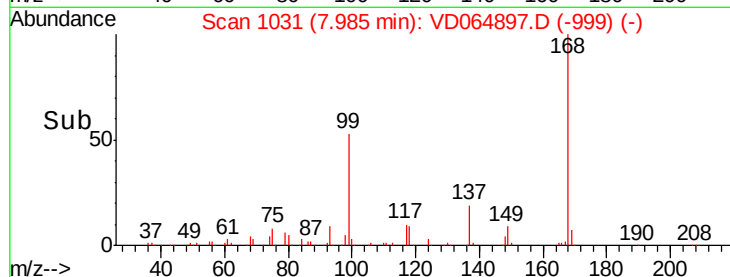
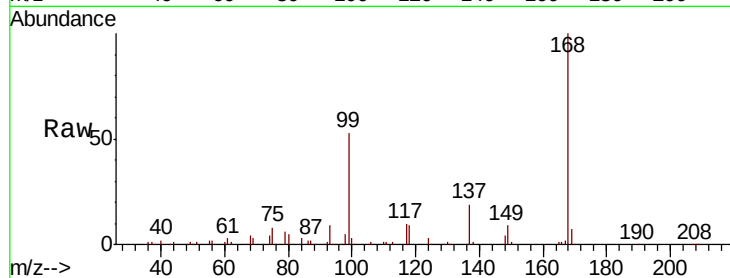




#38  
Carbon Tetrachloride  
Concen: 5.652 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD064897.D  
Acq: 20 Jan 2020 18:28

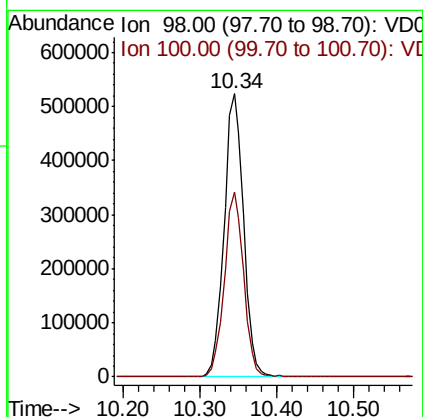
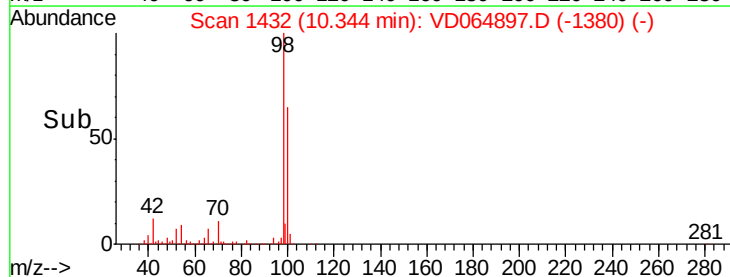
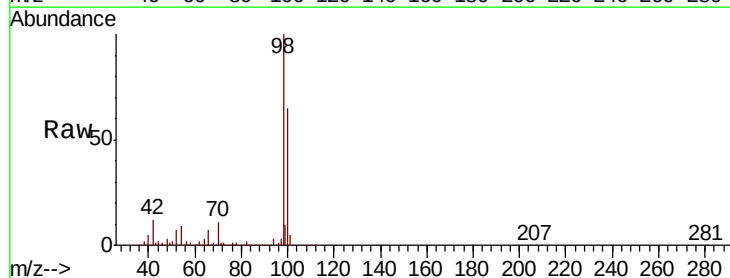
Instrument :  
MSVOA\_D  
ClientSampleId :

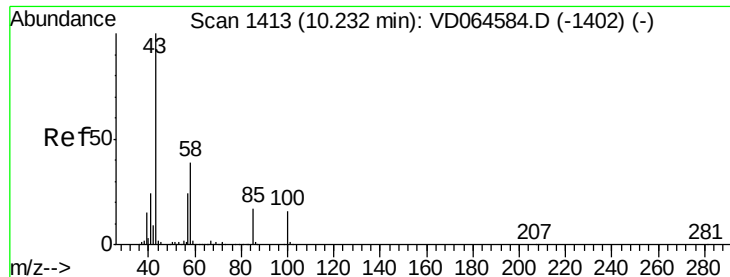
Tot Ion:117 Resp: 43153  
Ion Ratio Lower Upper  
117 100  
119 4.5 77.3 115.9#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 52.806 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VD064897.D  
Acq: 20 Jan 2020 18:28

Tgt Ion: 98 Resp: 923039  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.587 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.11 min

Lab File: VD064897.D

Acq: 20 Jan 2020 18:28

Instrument :

MSVOA\_D

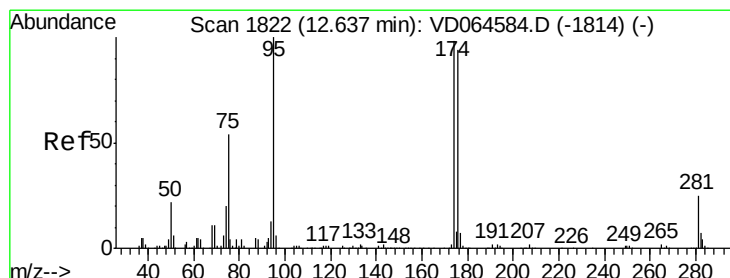
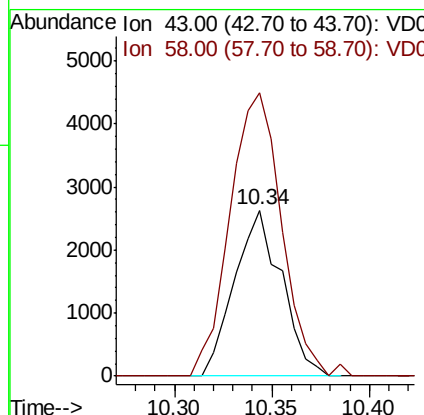
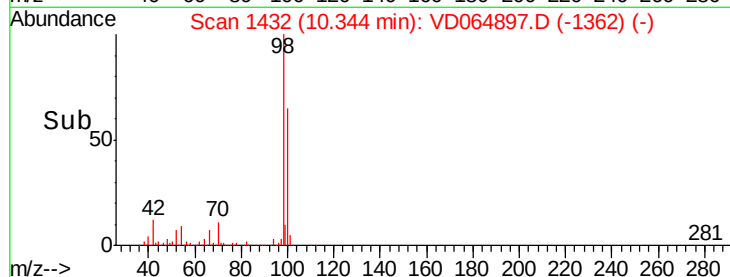
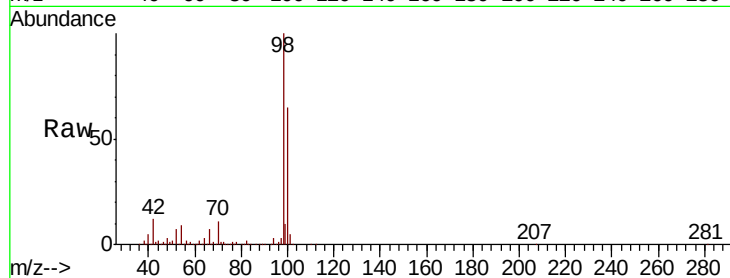
ClientSampled :

Tot Ion: 43 Resp: 4391

Ion Ratio Lower Upper

43 100

58 187.8 30.2 45.2#



#62

4-Bromofluorobenzene

Concen: 52.934 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064897.D

Acq: 20 Jan 2020 18:28

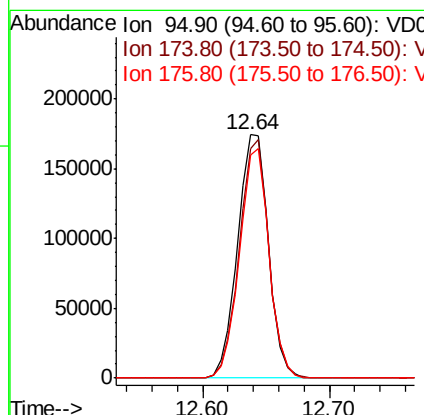
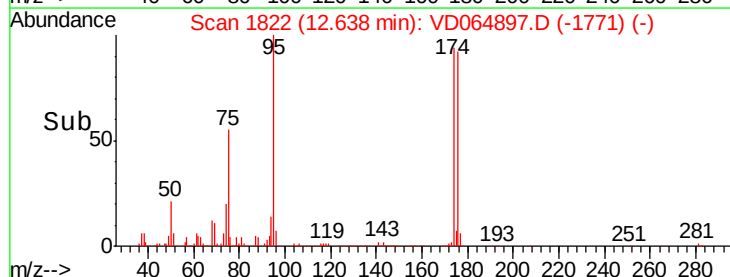
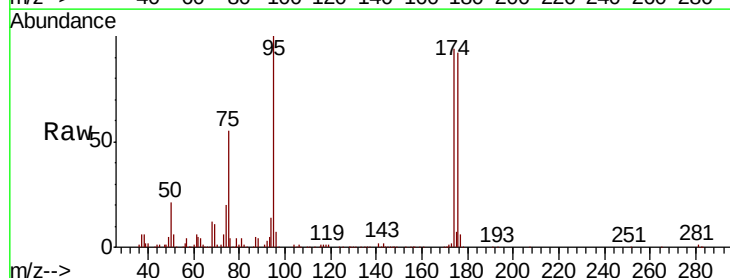
Tgt Ion: 95 Resp: 292580

Ion Ratio Lower Upper

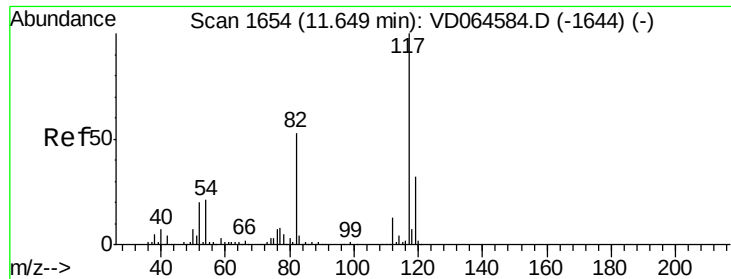
95 100

174 93.5 0.0 193.2

176 90.5 0.0 184.2



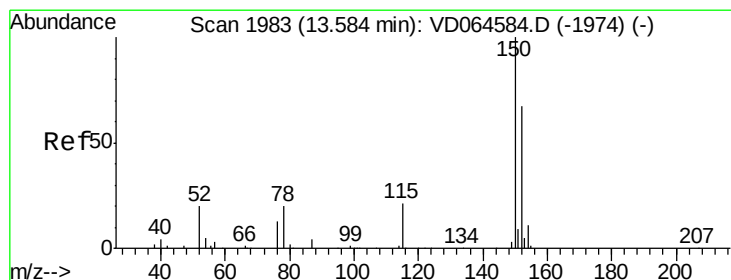
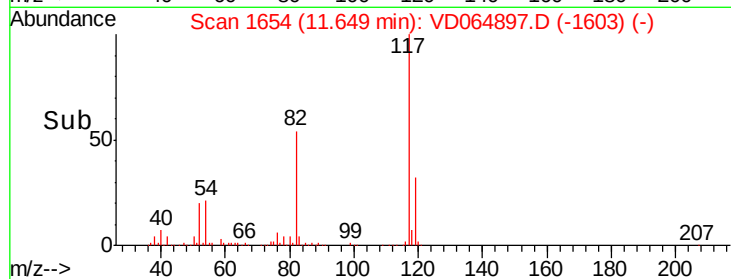
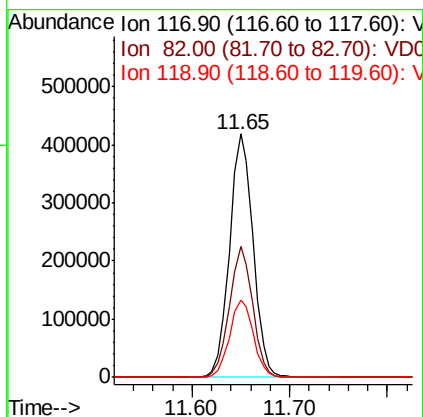
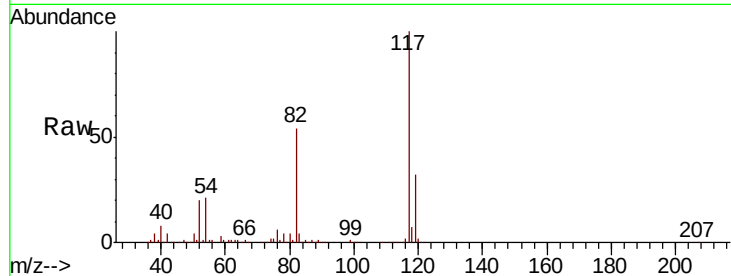




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064897.D  
Acq: 20 Jan 2020 18:28

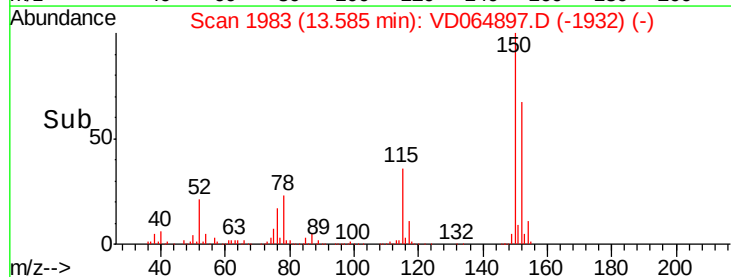
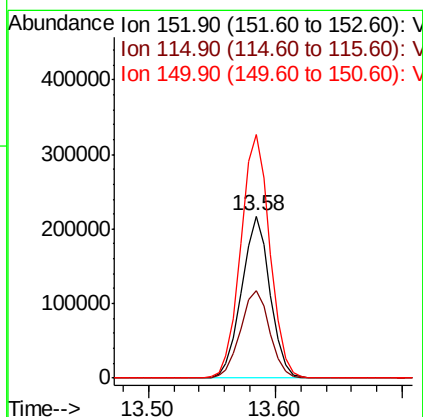
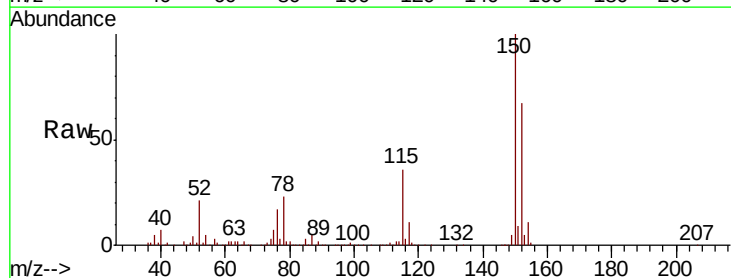
Instrument :  
MSVOA\_D  
ClientSampled :

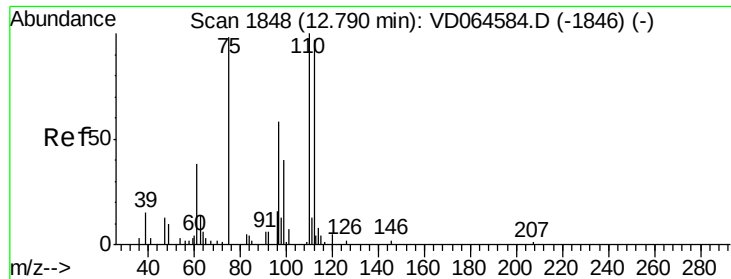
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.6  | 42.2  | 63.4  |
| 119     | 31.7  | 26.0  | 39.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD064897.D  
Acq: 20 Jan 2020 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.6  | 27.8  | 83.4  |
| 150     | 153.8 | 0.0   | 351.4 |





#76

1,2,3-Trichloropropane

Concen: 59.004 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064897.D

Acq: 20 Jan 2020 18:28

Instrument :

MSVOA\_D

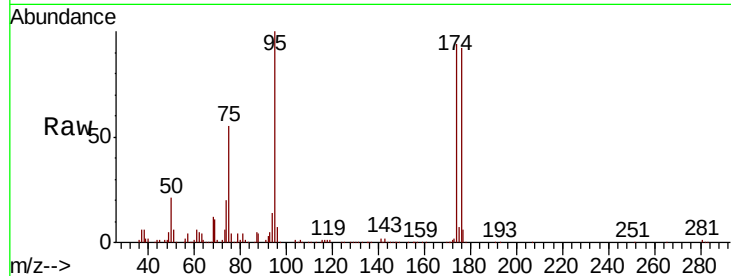
ClientSampled :

Tot Ion: 75 Resp: 156844

Ion Ratio Lower Upper

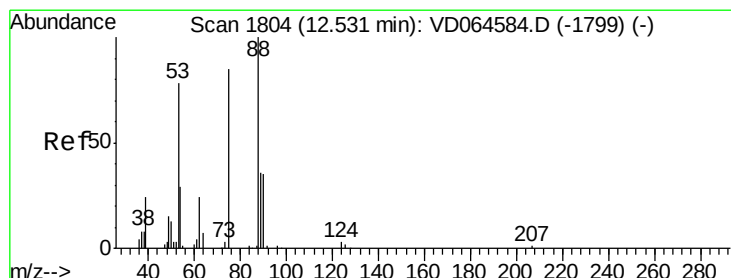
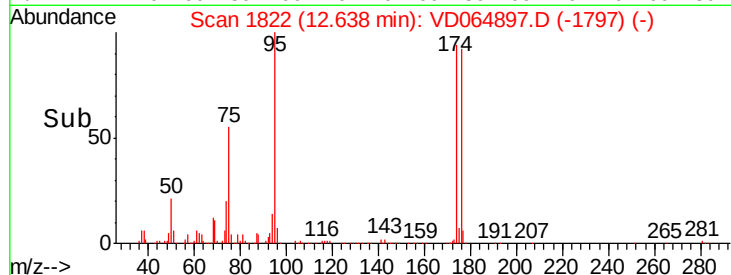
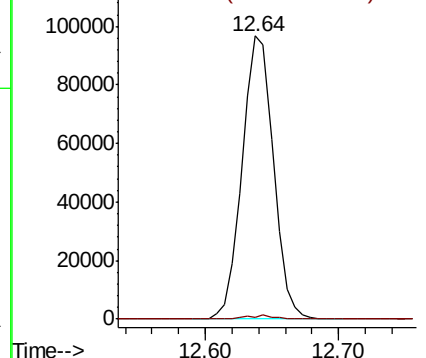
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 123.405 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064897.D

Acq: 20 Jan 2020 18:28

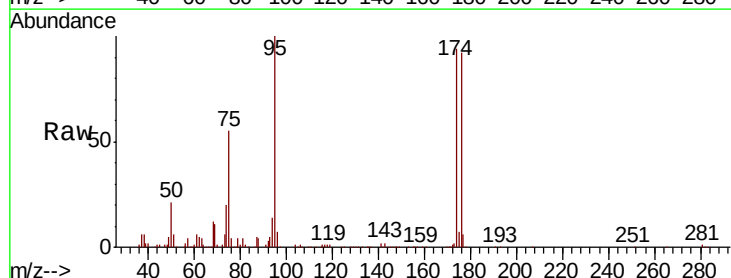
Tgt Ion: 75 Resp: 156844

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

89 0.1 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

