

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020720\  
 Data File : VD065115.D  
 Acq On : 07 Feb 2020 17:45  
 Operator : VA/SY  
 Sample : L1431-10  
 Misc : 9.70G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 08 00:08:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 Response via : Initial Calibration

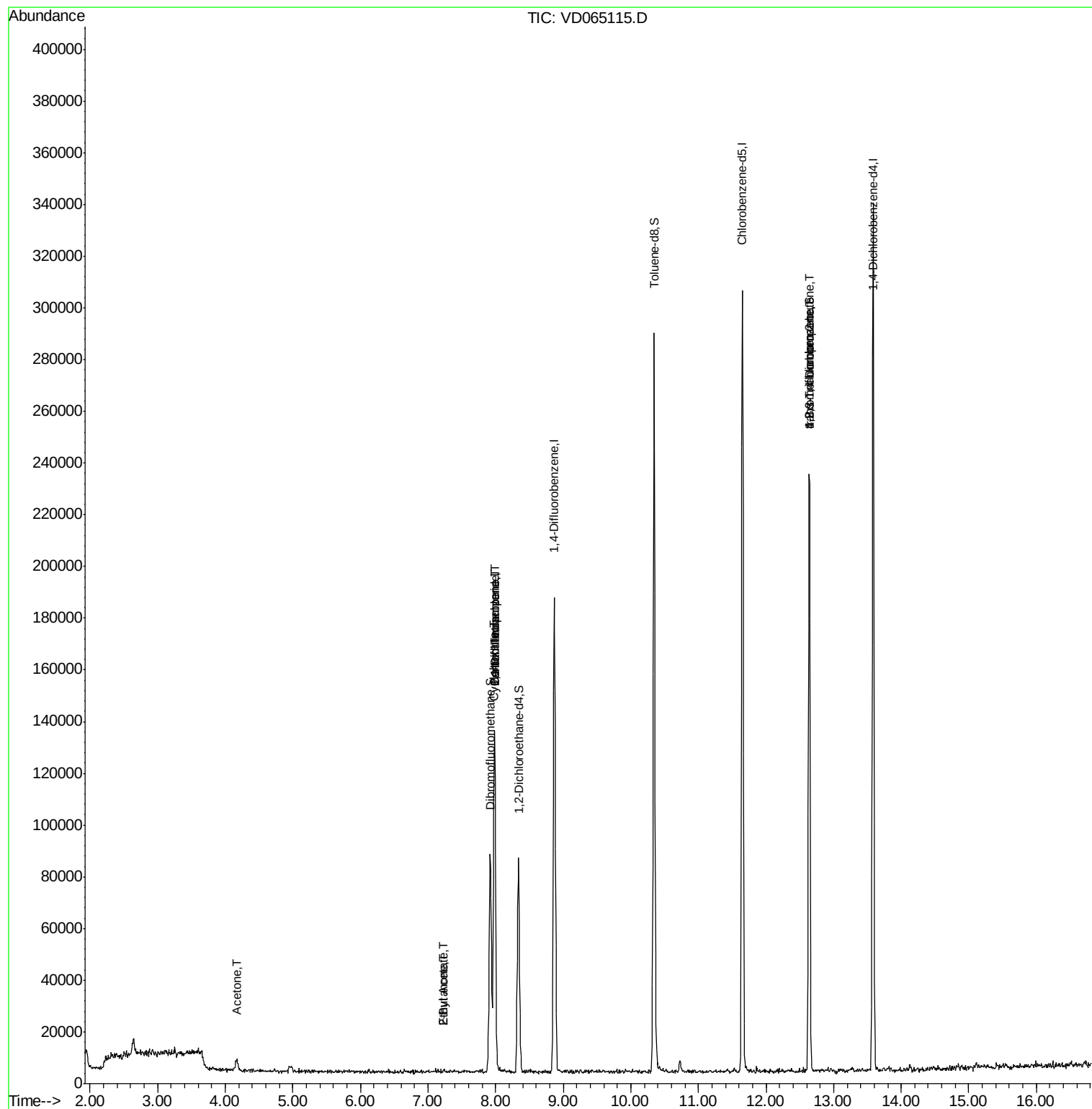
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98   | 168  | 99170    | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87   | 114  | 149897   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65  | 117  | 174652   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58  | 152  | 88838    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34   | 65   | 65780    | 78.04     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 156.08% |          |
| 35) Dibromofluoromethane       | 7.92   | 113  | 57805    | 69.12     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 138.24% |          |
| 50) Toluene-d8                 | 10.34  | 98   | 189548   | 56.94     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 113.88% |          |
| 62) 4-Bromofluorobenzene       | 12.64  | 95   | 73670    | 69.84     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 139.68% |          |
| Target Compounds               |        |      |          |           |         |          |
| 16) Acetone                    | 4.17   | 43   | 7364     | 34.945    | ug/l    | 97       |
| 20) Methylene Chloride         | 4.97   | 84   | 1783     | Below Cal |         | 96       |
| 25) 2-Butanone                 | 7.23   | 43   | 624      | 2.482     | ug/l #  | 50       |
| 31) Cyclohexane                | 7.97   | 56   | 1883     | 1.123     | ug/l #  | 21       |
| 36) 1,1-Dichloropropene        | 7.98   | 75   | 7454     | 5.348     | ug/l #  | 48       |
| 37) Ethyl Acetate              | 7.23   | 43   | 624      | 1.096     | ug/l #  | 69       |
| 38) Carbon Tetrachloride       | 7.98   | 117  | 9751     | 6.850     | ug/l #  | 17       |
| 76) 1,2,3-Trichloropropane     | 12.64  | 75   | 38081    | 56.618    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64  | 75   | 38081    | 113.231   | ug/l #  | 10       |

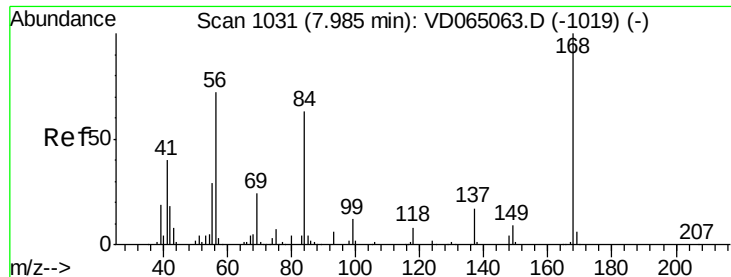
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD020720\  
Data File : VD065115.D  
Acq On : 07 Feb 2020 17:45  
Operator : VA/SY  
Sample : L1431-10  
Misc : 9.70G/5.00ml/MSVOA D/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Feb 08 00:08:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 05 15:53:00 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: VD065115.D

Acq: 07 Feb 2020 17:45

Instrument :

MSVOA\_D

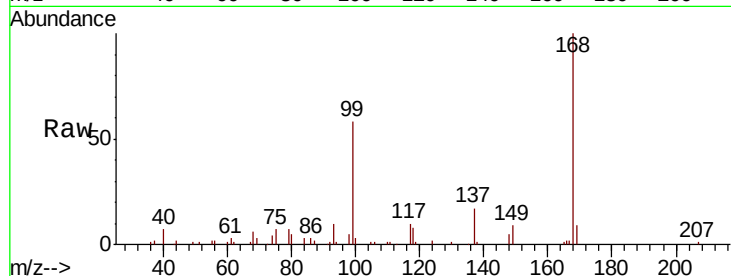
ClientSampled :

Tot Ion:168 Resp: 99170

Ion Ratio Lower Upper

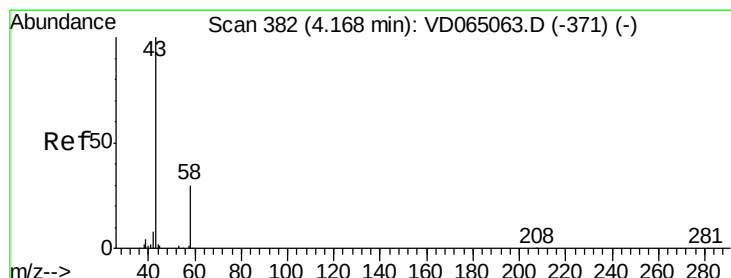
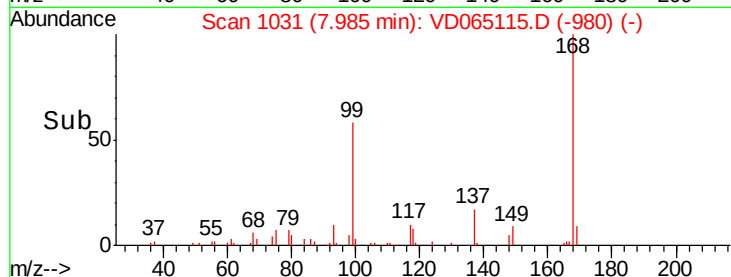
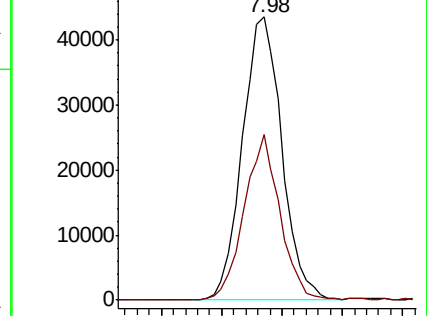
168 100

99 58.3 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 34.945 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD065115.D

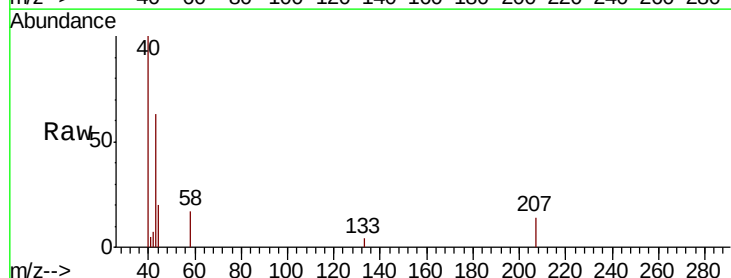
Acq: 07 Feb 2020 17:45

Tgt Ion: 43 Resp: 7364

Ion Ratio Lower Upper

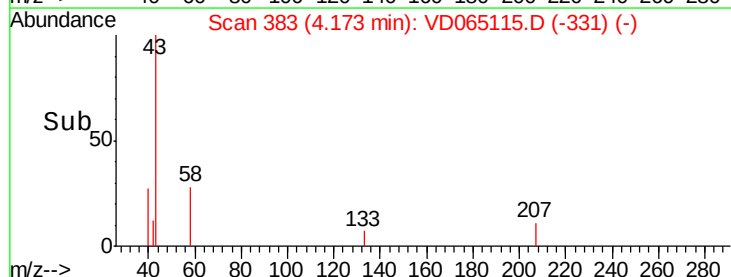
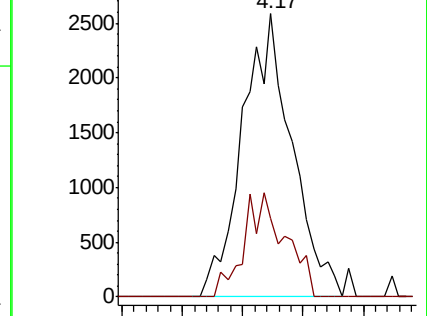
43 100

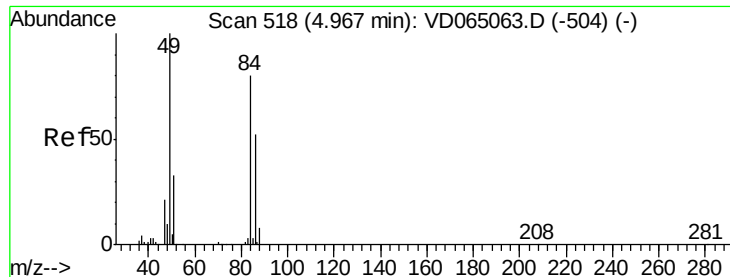
58 27.9 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

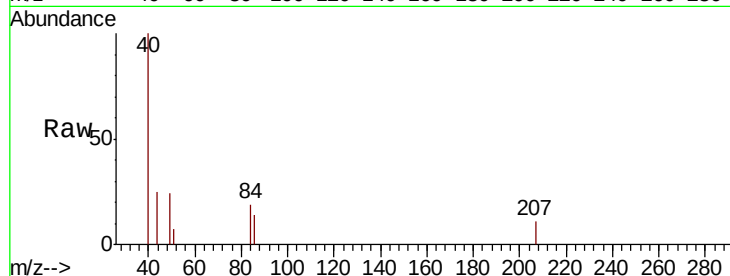




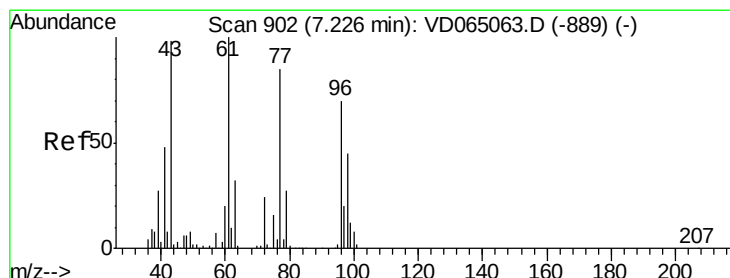
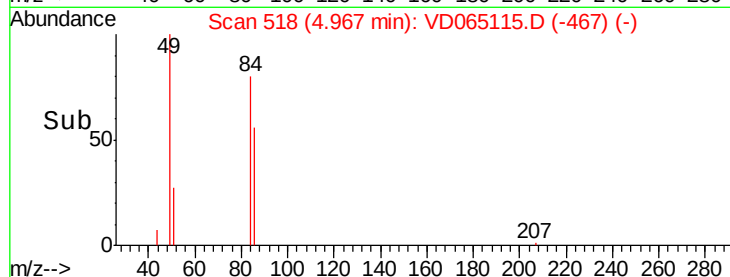
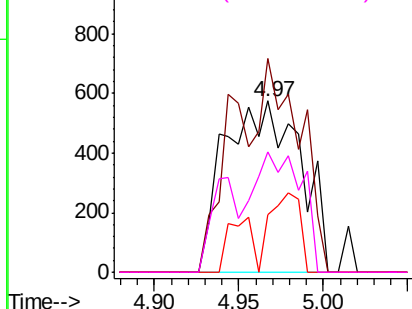
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 84 Resp: 1783  
Ion Ratio Lower Upper  
84 100  
49 124.7 100.4 150.6  
51 33.8 32.7 49.1  
86 70.4 52.4 78.6

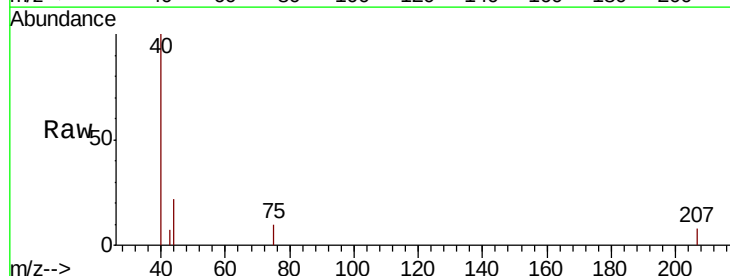


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

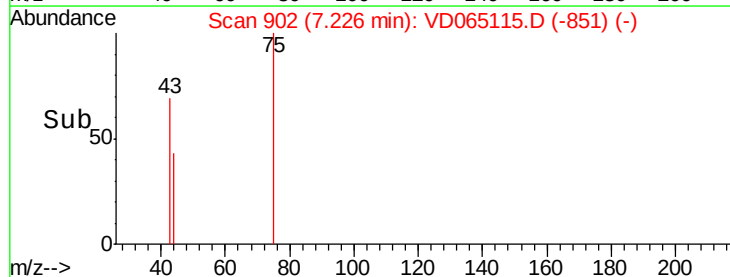
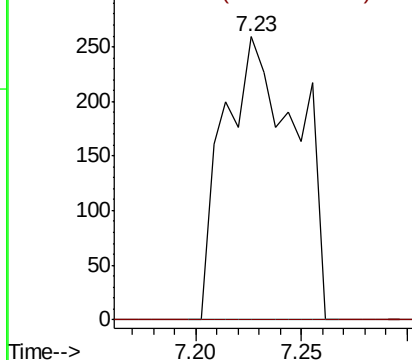


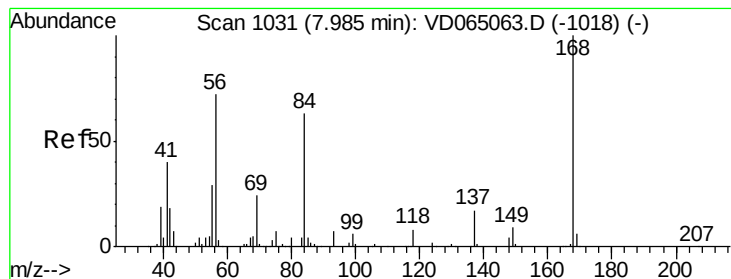
#25  
2-Butanone  
Concen: 2.482 ug/l  
RT: 7.23 min Scan# 902  
Delta R.T. -0.00 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

Tgt Ion: 43 Resp: 624  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.123 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD065115.D

Acq: 07 Feb 2020 17:45

Instrument :

MSVOA\_D

ClientSampleId :

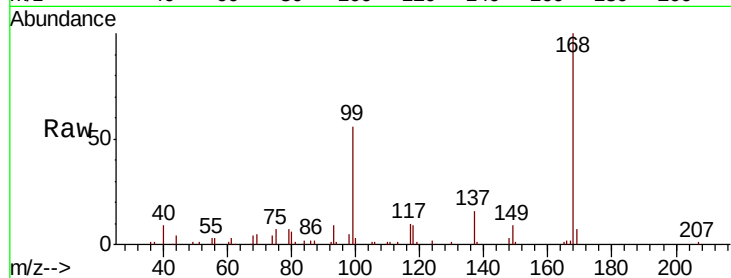
Tot Ion: 56 Resp: 1883

Ion Ratio Lower Upper

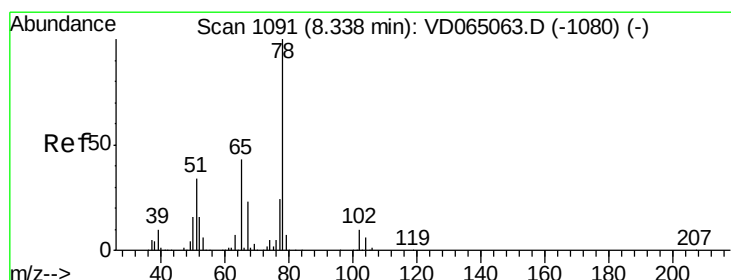
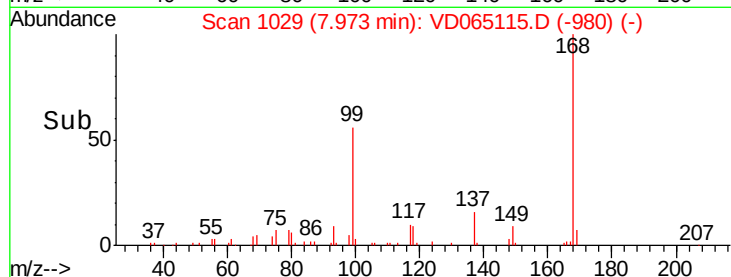
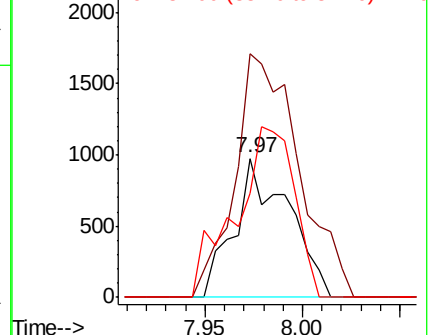
56 100

69 175.2 26.6 40.0#

84 75.3 70.6 106.0



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: 78.044 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065115.D

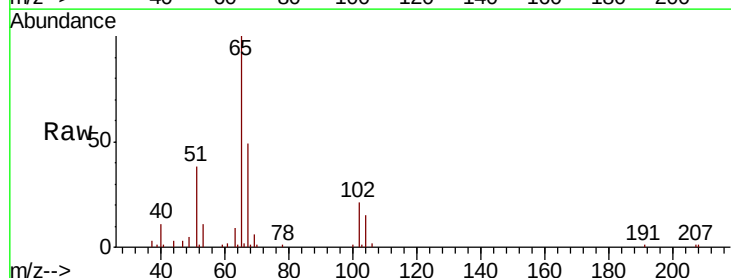
Acq: 07 Feb 2020 17:45

Tgt Ion: 65 Resp: 65780

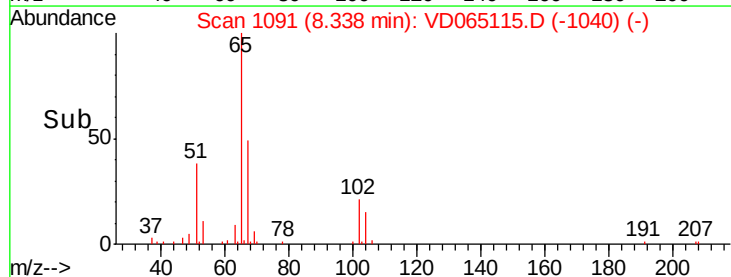
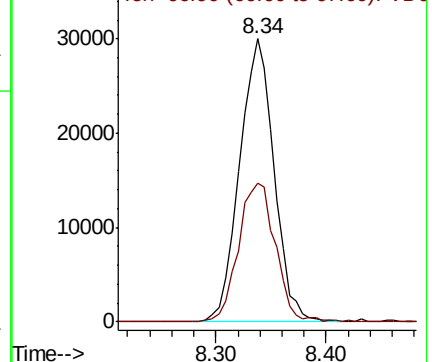
Ion Ratio Lower Upper

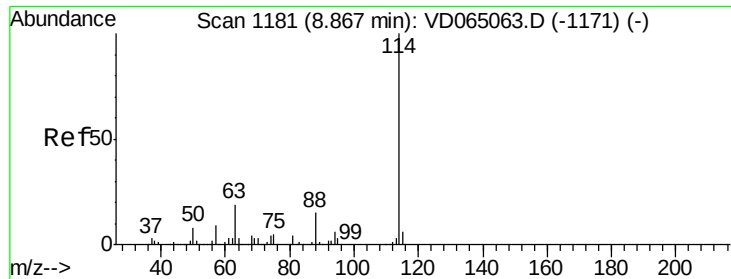
65 100

67 52.5 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

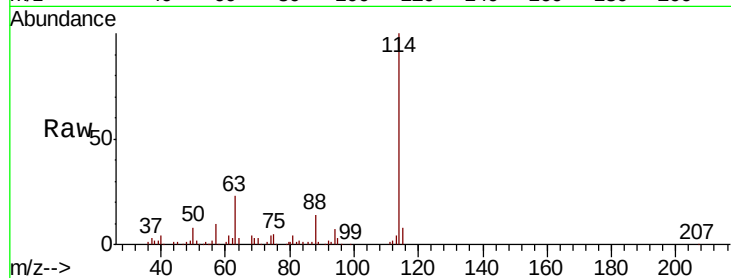




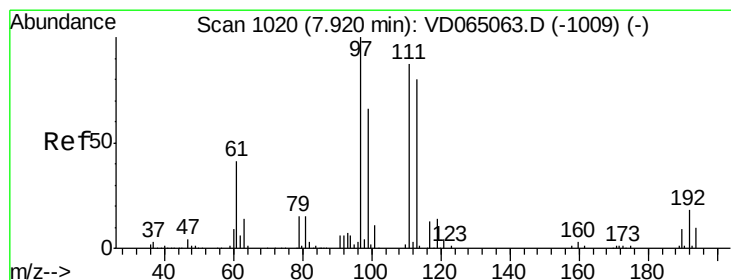
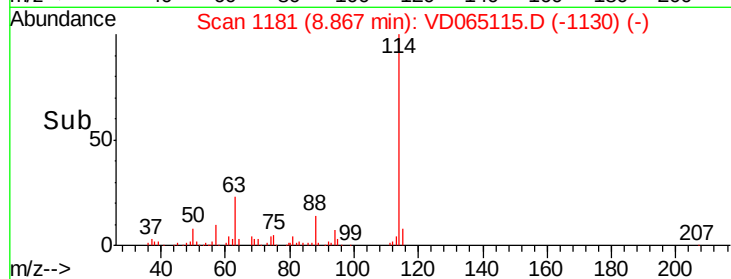
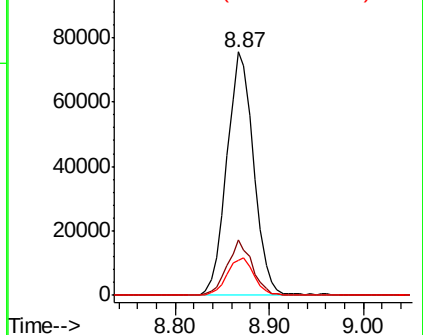
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065115.D  
 Acq: 07 Feb 2020 17:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.7  | 0.0   | 38.8  |
| 88      | 14.4  | 0.0   | 29.6  |

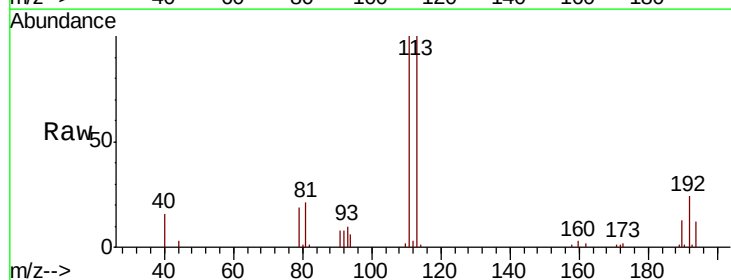


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

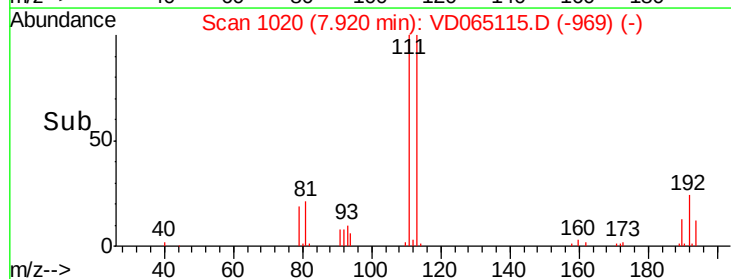
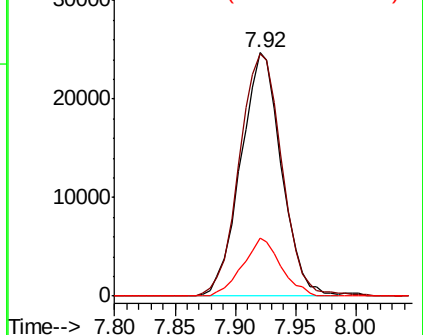


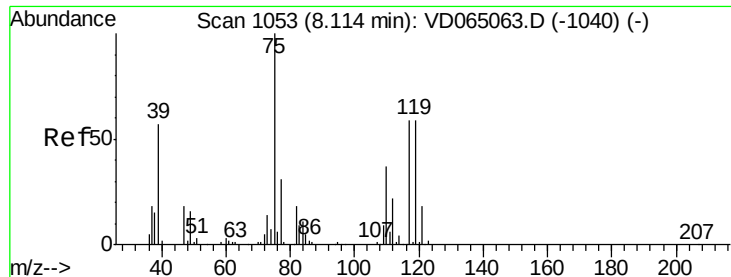
#35  
 Dibromofluoromethane  
 Concen: 69.117 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065115.D  
 Acq: 07 Feb 2020 17:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.6 | 83.1  | 124.7 |
| 192     | 22.3  | 18.1  | 27.1  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.348 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD065115.D

Acq: 07 Feb 2020 17:45

Instrument :

MSVOA\_D

ClientSampled :

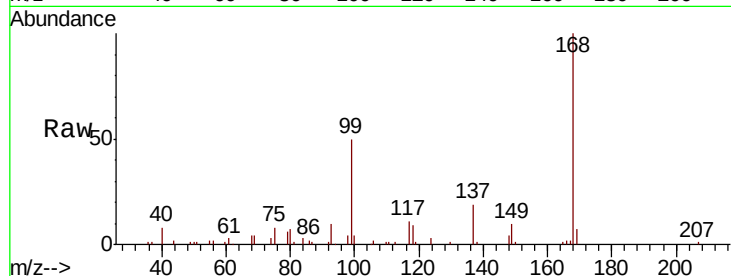
Tot Ion: 75 Resp: 7454

Ion Ratio Lower Upper

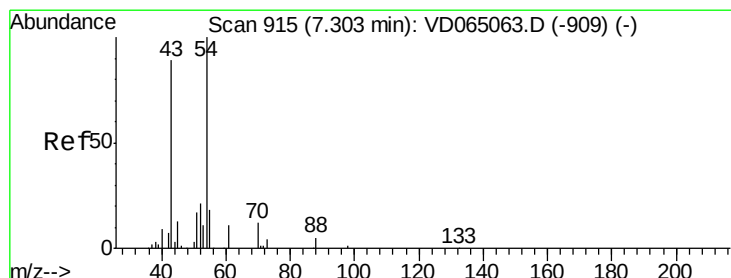
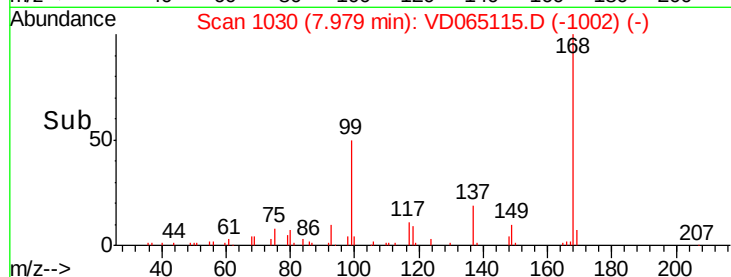
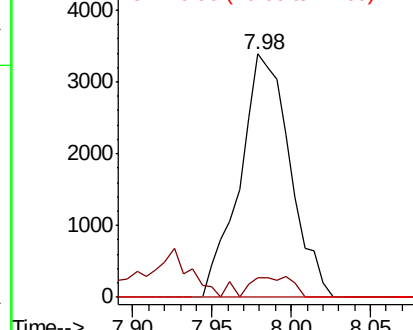
75 100

110 7.8 18.1 54.3#

77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC  
Ion 109.90 (109.60 to 110.60): VDC  
Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 1.096 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.08 min

Lab File: VD065115.D

Acq: 07 Feb 2020 17:45

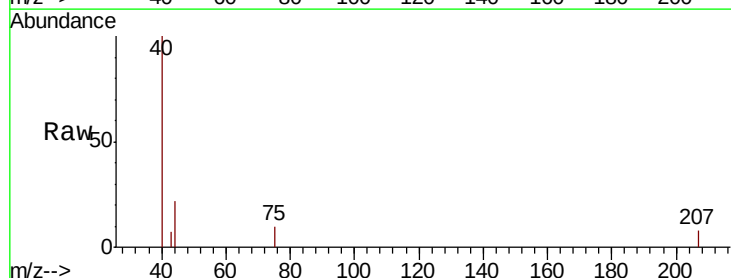
Tgt Ion: 43 Resp: 624

Ion Ratio Lower Upper

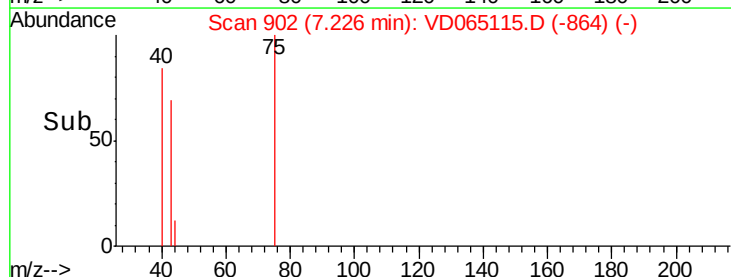
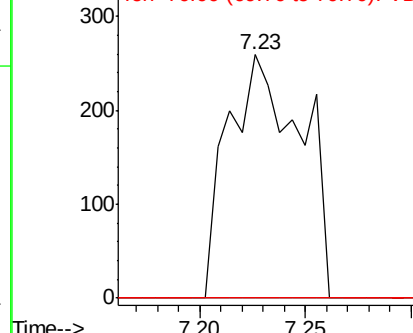
43 100

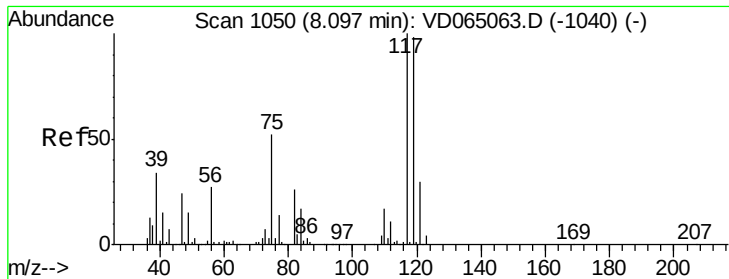
61 0.0 11.0 16.4#

70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 70.00 (69.70 to 70.70): VDC

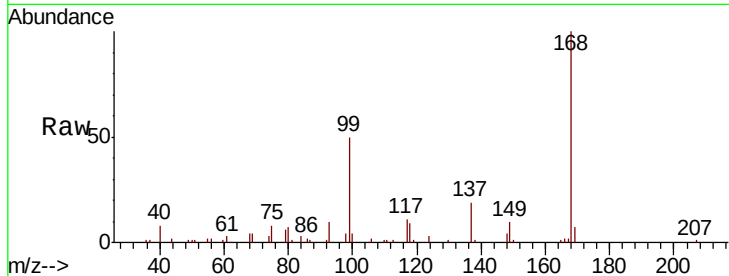




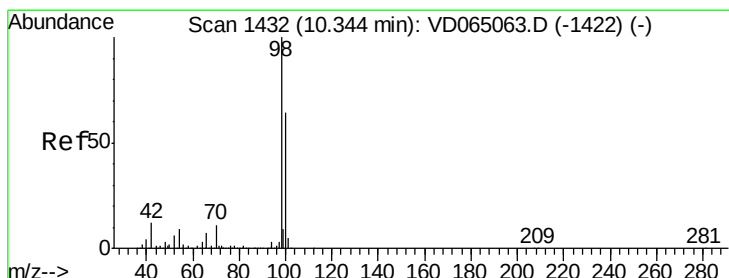
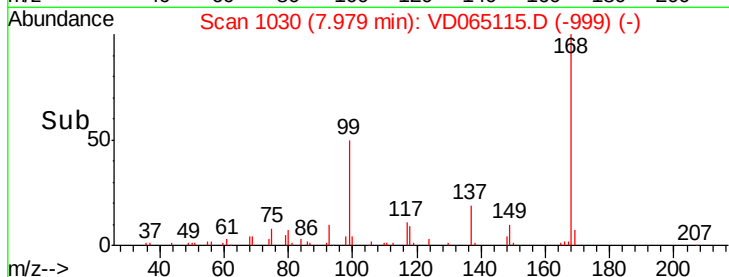
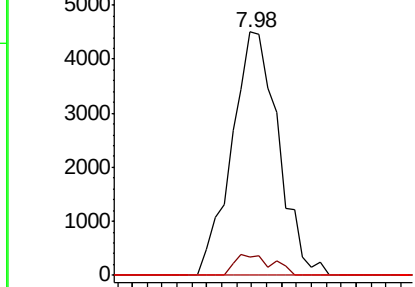
#38  
Carbon Tetrachloride  
Concen: 6.850 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 9751  
Ion Ratio Lower Upper  
117 100  
119 7.7 78.5 117.7#  
121 0.0 23.8 35.6#

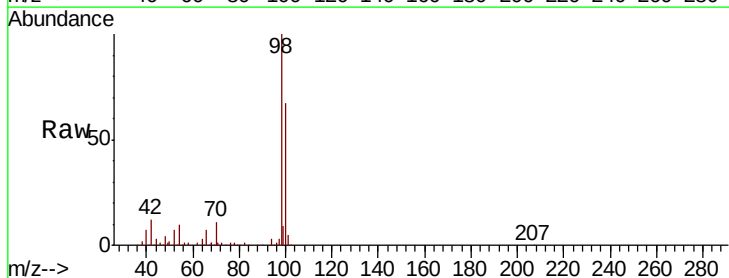


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

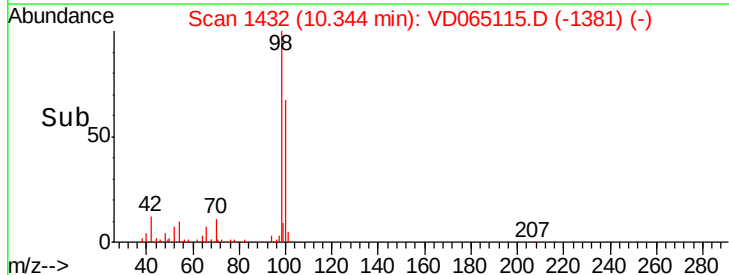
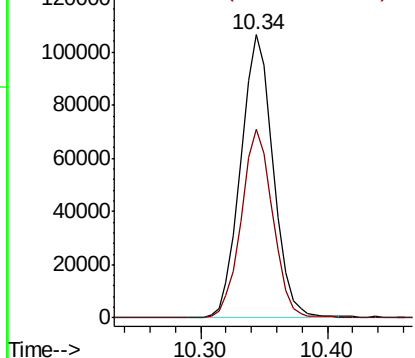


#50  
Toluene-d8  
Concen: 56.941 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

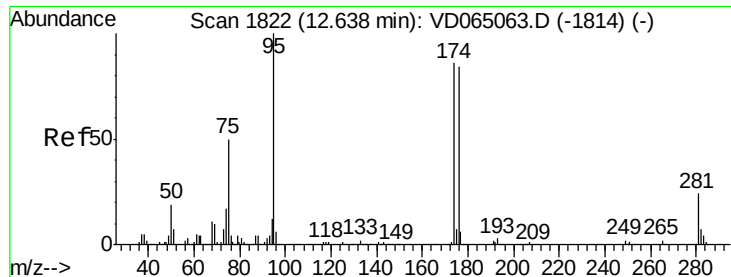
Tgt Ion: 98 Resp: 189548  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VD



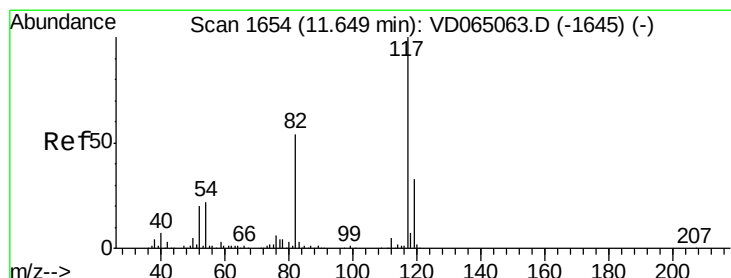
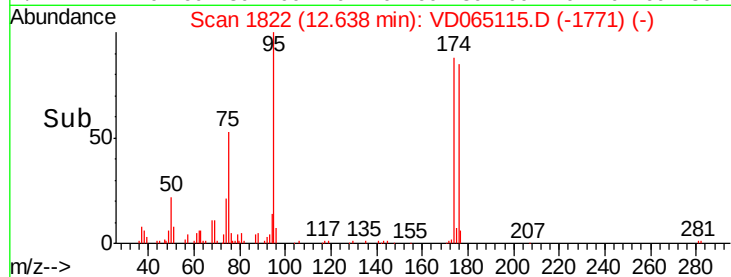
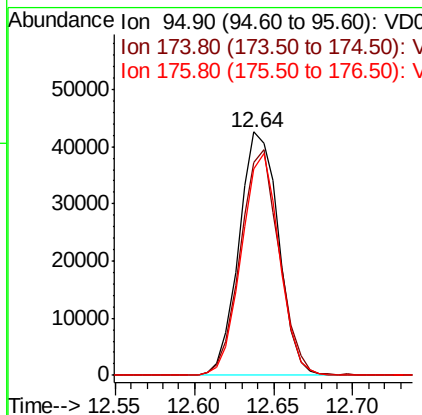
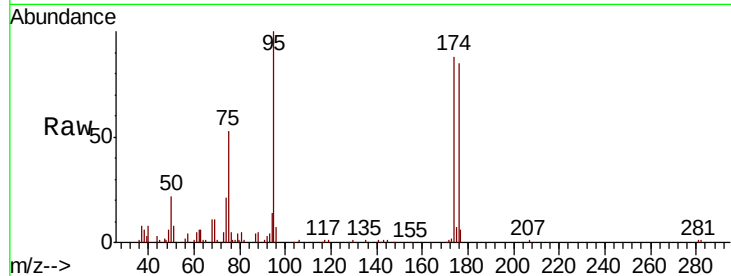




#62  
4-Bromofluorobenzene  
Concen: 69.843 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

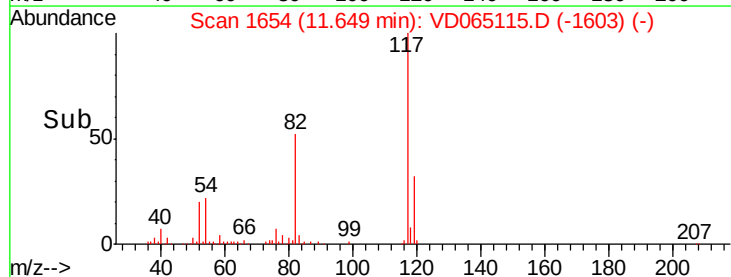
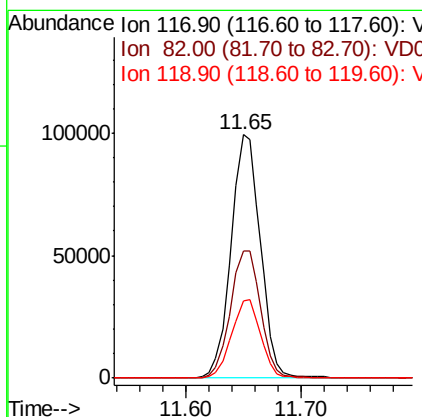
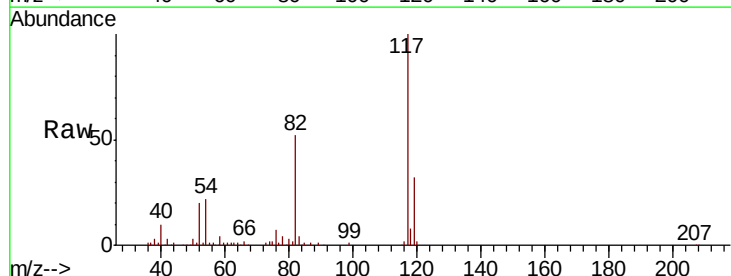
Instrument :  
MSVOA\_D  
ClientSampled :

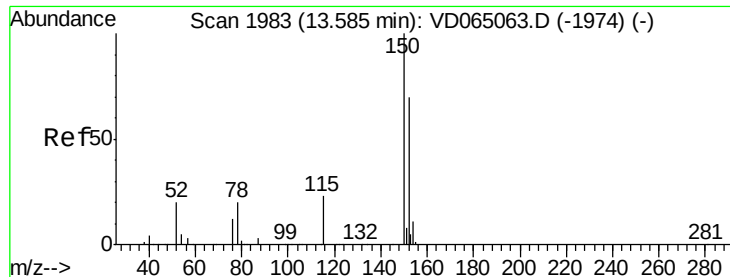
Tot Ion: 95 Resp: 73670  
Ion Ratio Lower Upper  
95 100  
174 91.0 0.0 180.0  
176 87.5 0.0 173.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

Tgt Ion: 117 Resp: 174652  
Ion Ratio Lower Upper  
117 100  
82 52.2 43.1 64.7  
119 32.0 26.0 39.0



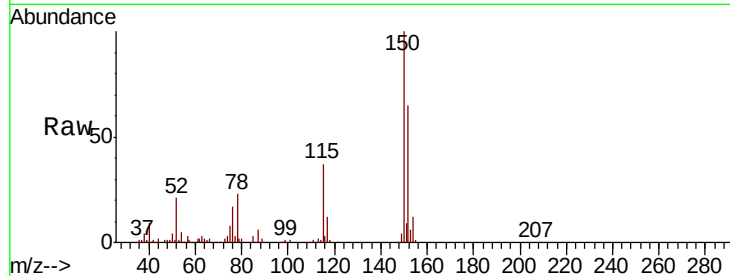


#72

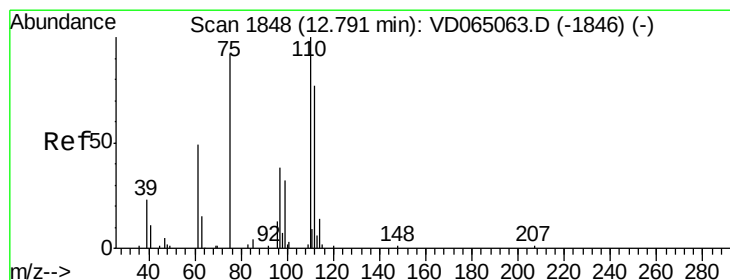
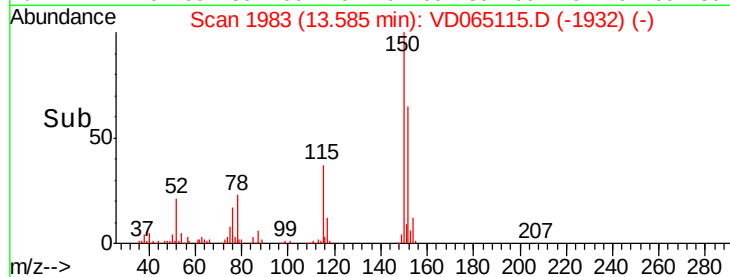
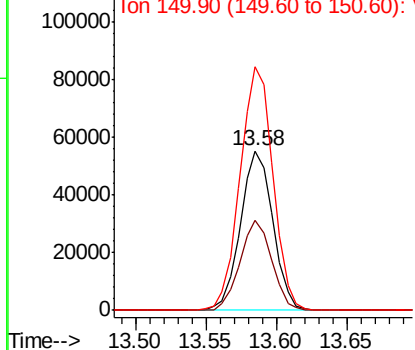
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:152 Resp: 88838  
Ion Ratio Lower Upper  
152 100  
115 55.3 27.5 82.4  
150 154.8 0.0 343.2



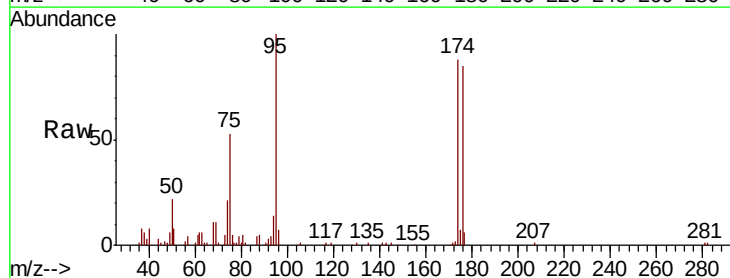
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



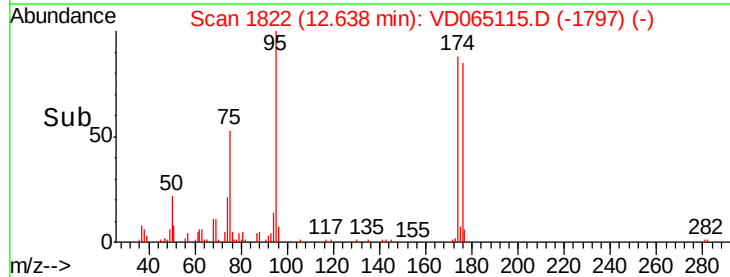
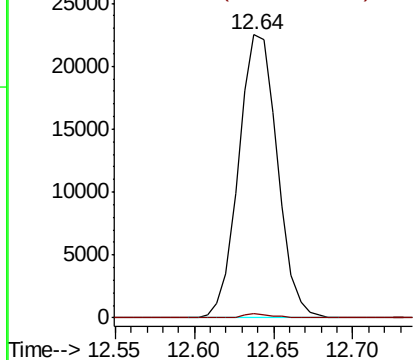
#76

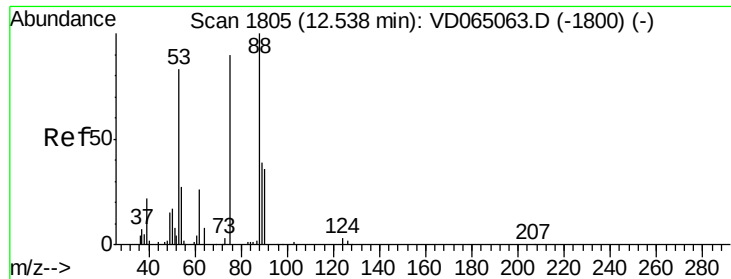
1,2,3-Trichloropropane  
Concen: 56.618 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD065115.D  
Acq: 07 Feb 2020 17:45

Tgt Ion: 75 Resp: 38081  
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: 113.231 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.10 min  
 Lab File: VD065115.D  
 Acq: 07 Feb 2020 17:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion: 75 Resp: 38081  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 78.5 117.7#  
 89 0.0 37.0 55.4#

