

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112119\  
 Data File : VD064331.D  
 Acq On : 21 Nov 2019 18:23  
 Operator : VA/SY  
 Sample : K5973-07  
 Misc : 7.37G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 22 00:43:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 2019  
 Response via : Initial Calibration

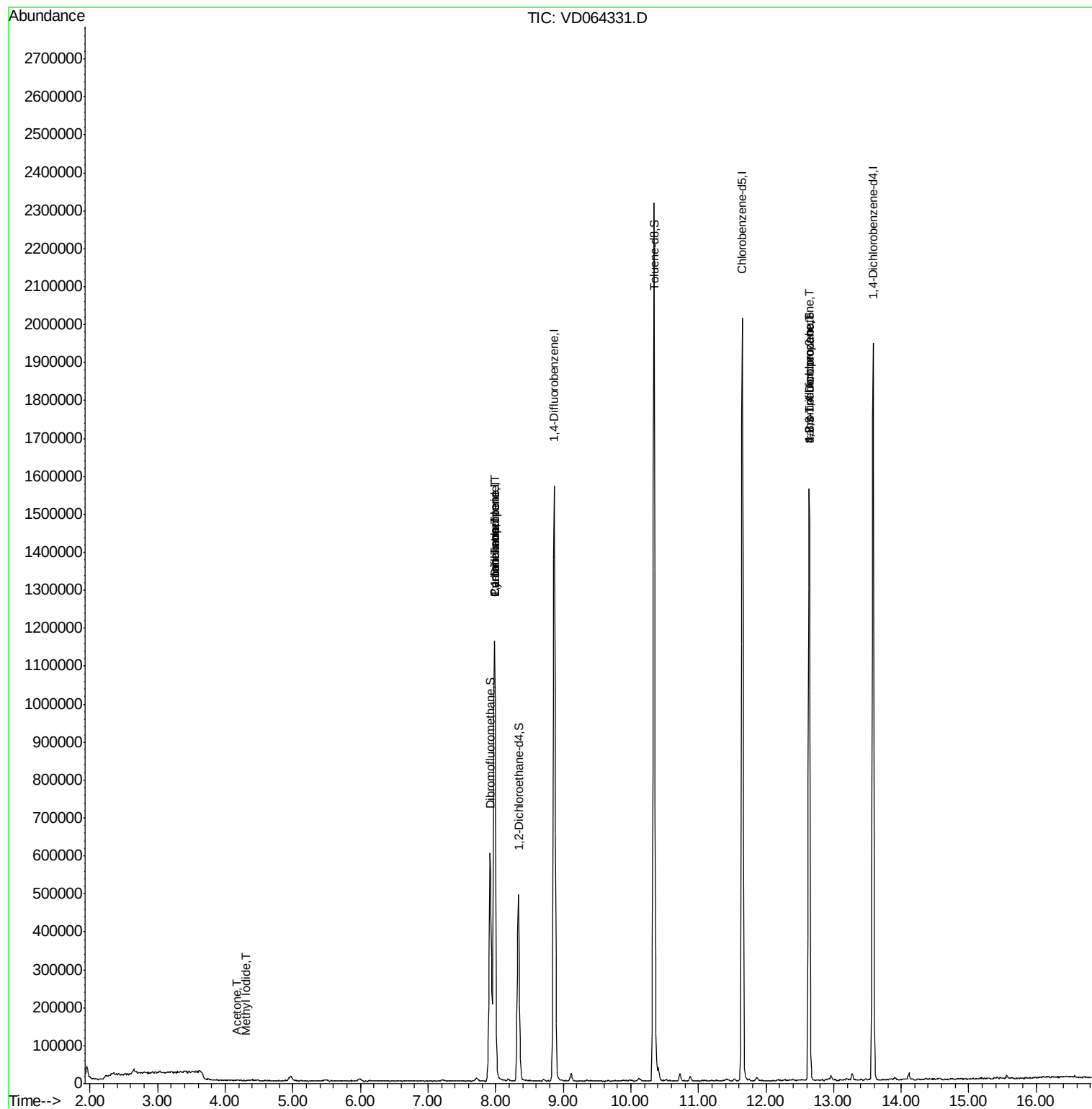
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 964090   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 1373039  | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 1177044  | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 535135   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 386590   | 48.76   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 97.52%  |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 413569   | 52.47   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 104.94% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 1581008  | 53.17   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 106.34% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 489414   | 47.53   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 95.06%  |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 10) Methyl Iodide              | 4.30  | 142  | 208      | 2.052   | ug/l #  | 77       |
| 16) Acetone                    | 4.17  | 43   | 3482     | 1.854   | ug/l    | 96       |
| 31) Cyclohexane                | 7.98  | 56   | 19013    | 1.222   | ug/l #  | 22       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 63546    | 5.015   | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 82672    | 6.097   | ug/l #  | 14       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 252146   | 58.498  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 252146   | 116.200 | ug/l #  | 10       |

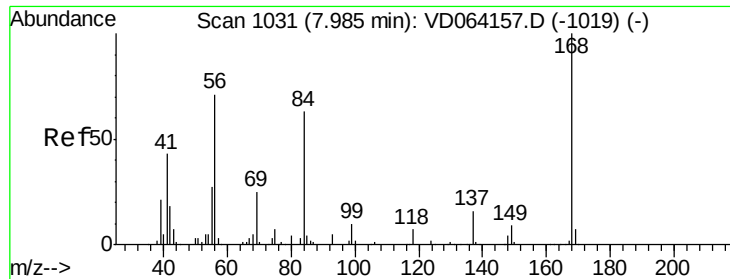
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD112119\  
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MSVOA\_D  
ClientSampleId :

Quant Time: Nov 22 00:43:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 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: VD064331.D

Acq: 21 Nov 2019 18:23

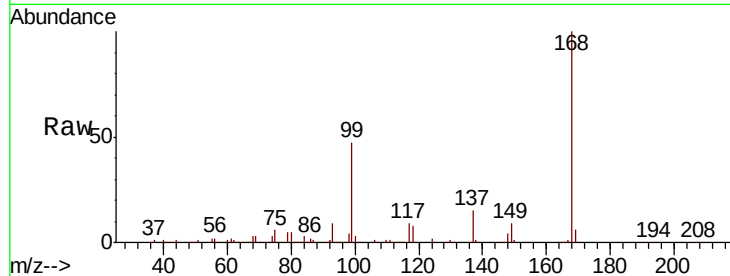
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 964090

Ion Ratio Lower Upper

168 100

99 46.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

400000

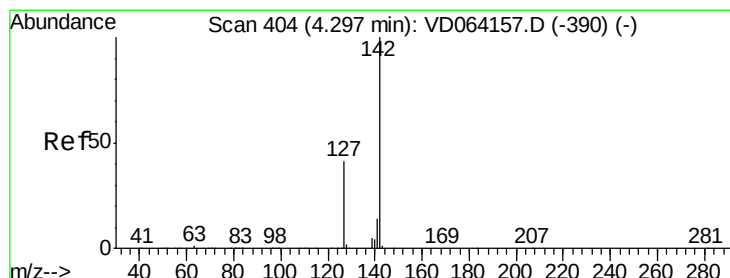
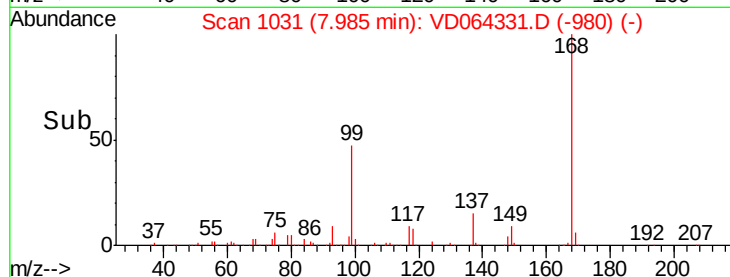
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 2.052 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD064331.D

Acq: 21 Nov 2019 18:23

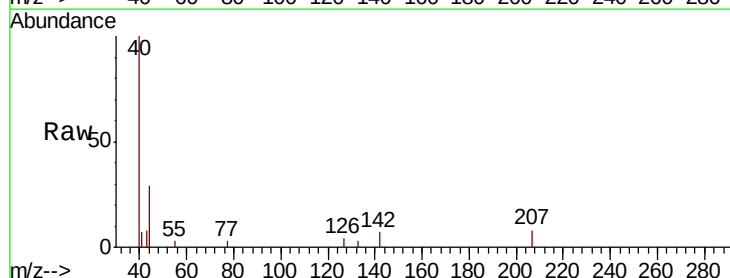
Tgt Ion:142 Resp: 208

Ion Ratio Lower Upper

142 100

127 30.8 34.4 51.6#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.30

500

400

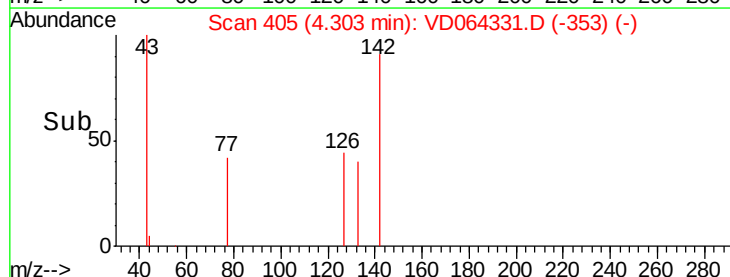
300

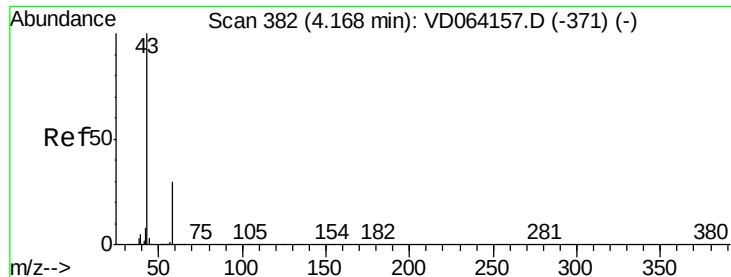
200

100

0

Time-->





#16

Acetone

Concen: 1.854 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD064331.D

Acq: 21 Nov 2019 18:23

Instrument :

MSVOA\_D

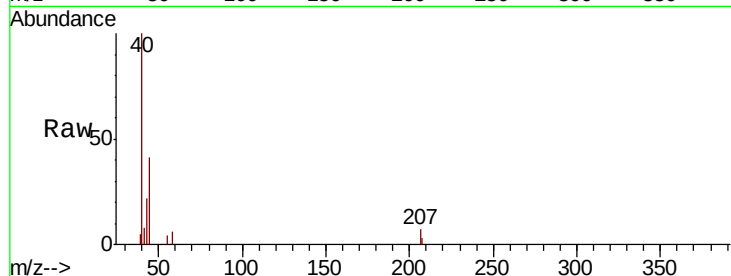
ClientSampled :

Tot Ion: 43 Resp: 3482

Ion Ratio Lower Upper

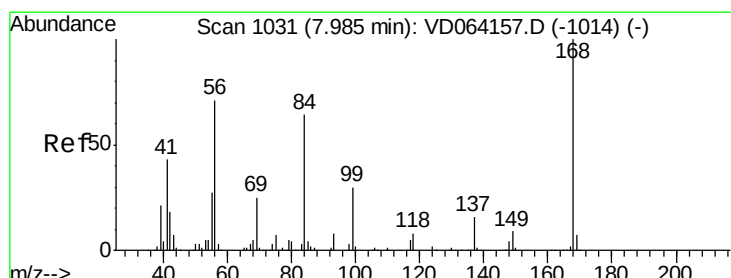
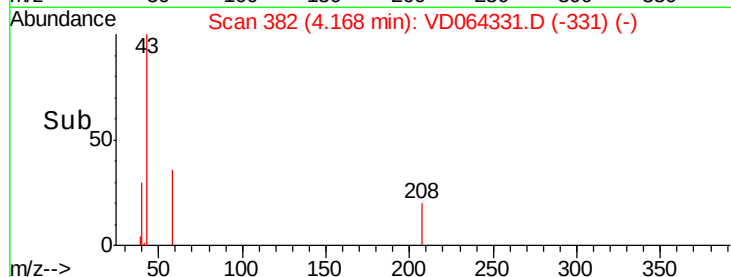
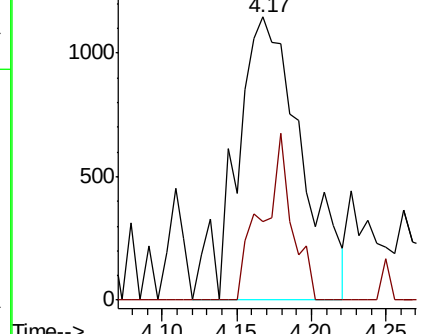
43 100

58 27.9 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#31

Cyclohexane

Concen: 1.222 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064331.D

Acq: 21 Nov 2019 18:23

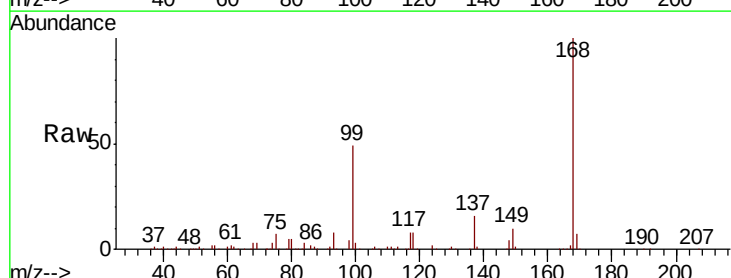
Tgt Ion: 56 Resp: 19013

Ion Ratio Lower Upper

56 100

69 143.7 28.2 42.4#

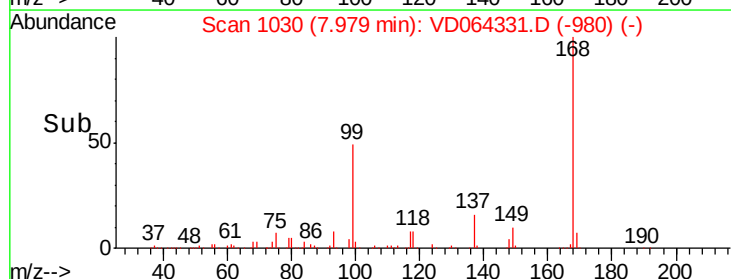
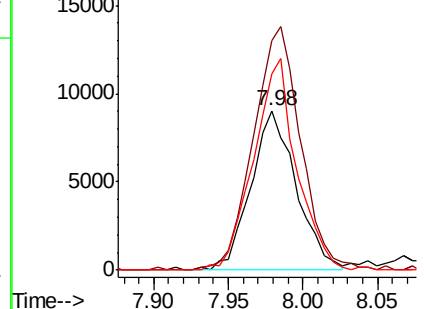
84 123.2 71.8 107.6#

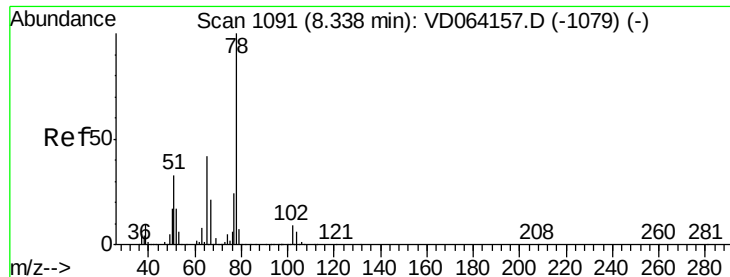


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

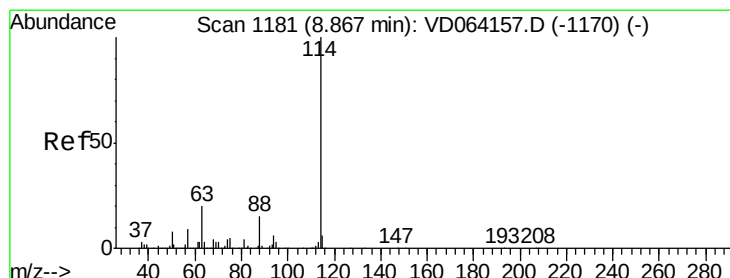
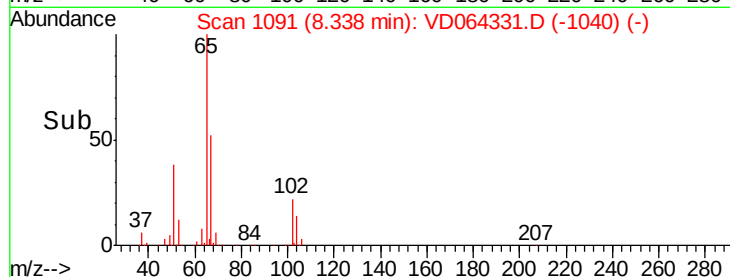
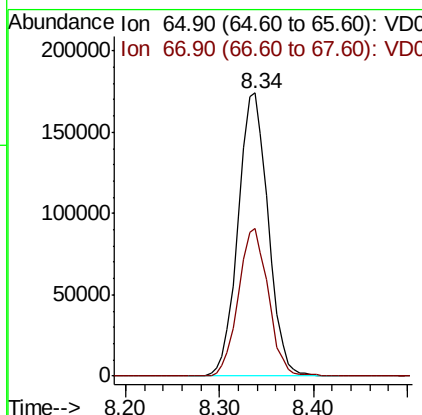
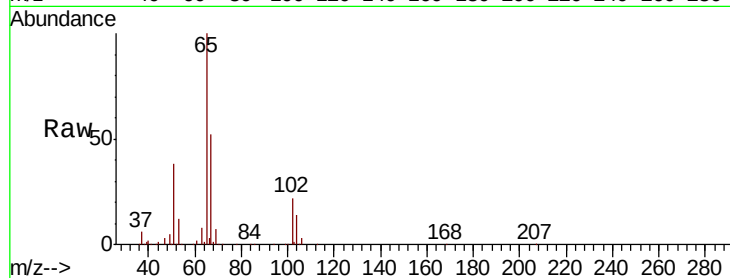




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.756 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VD064331.D  
 Acq: 21 Nov 2019 18:23

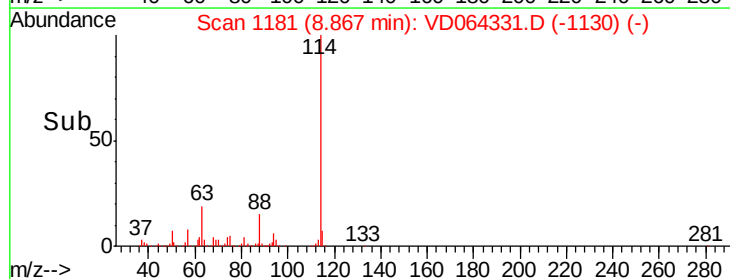
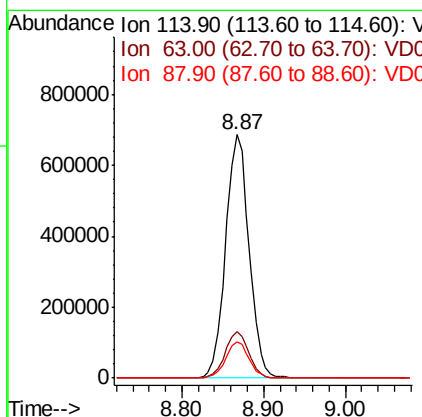
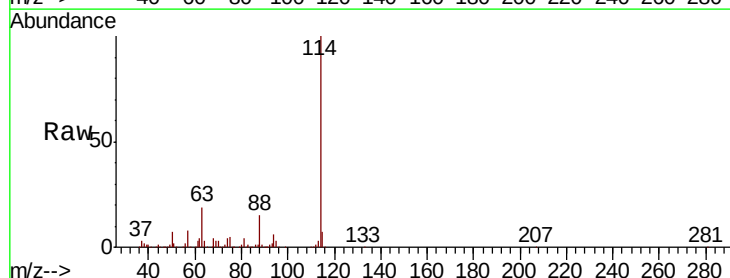
Instrument :  
 MSVOA\_D  
 ClientSampleId :

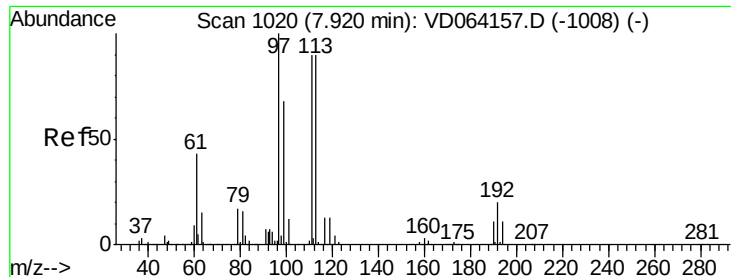
Tot Ion: 65 Resp: 386590  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064331.D  
 Acq: 21 Nov 2019 18:23

Tgt Ion: 114 Resp: 1373039  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 40.0  
 88 14.9 0.0 30.2

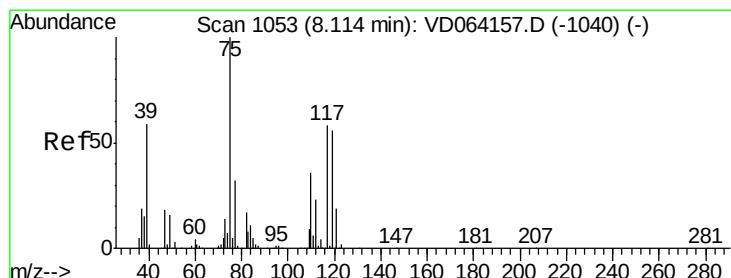
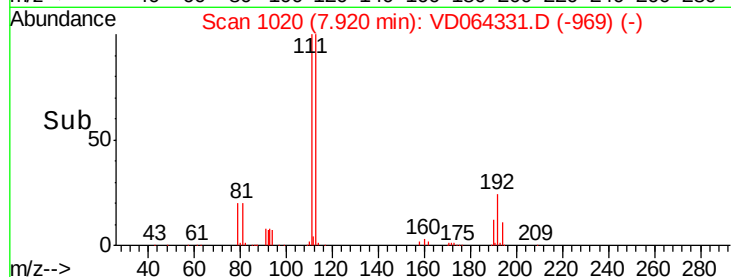
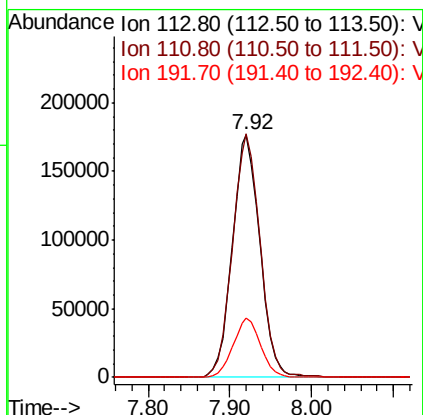
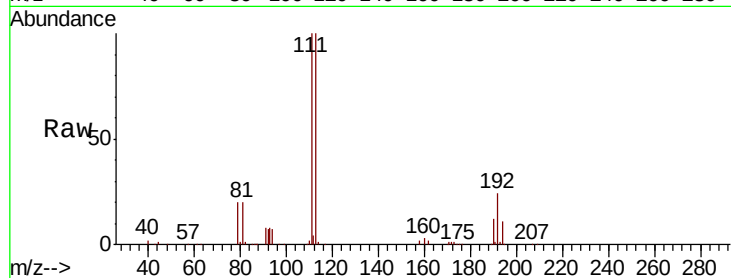




#35  
 Dibromofluoromethane  
 Concen: 52.474 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064331.D  
 Acq: 21 Nov 2019 18:23

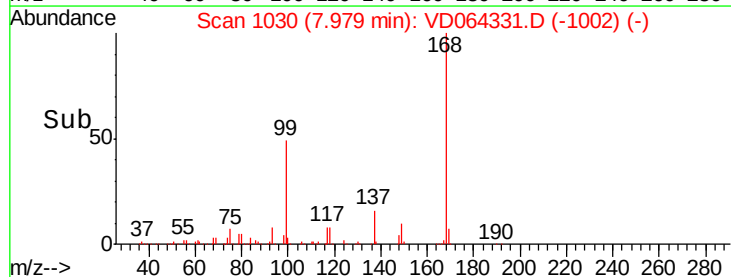
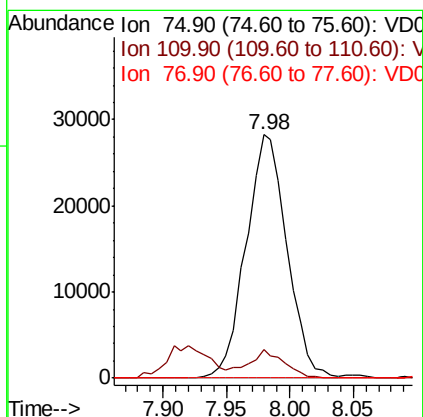
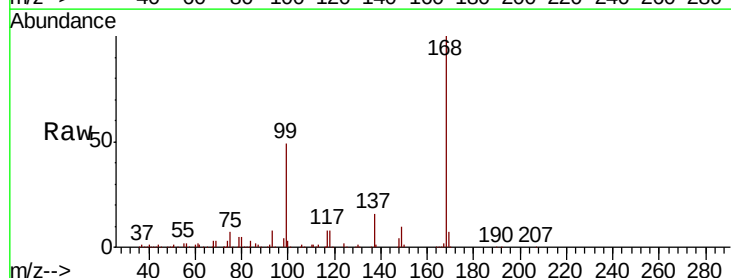
Instrument :  
 MSVOA\_D  
 ClientSampleId :

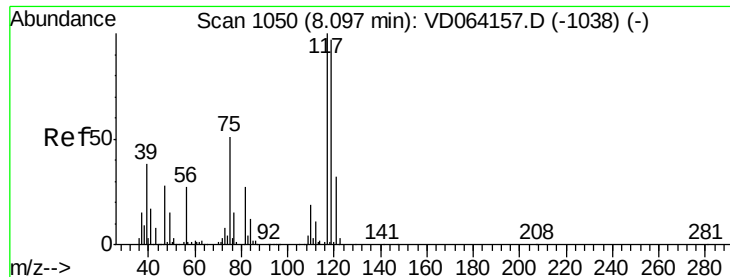
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.8 | 81.5  | 122.3 |
| 192     | 24.4  | 18.8  | 28.2  |



#36  
 1,1-Dichloropropene  
 Concen: 5.015 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD064331.D  
 Acq: 21 Nov 2019 18:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.2  | 18.3  | 54.9# |
| 77      | 0.0   | 25.0  | 37.6# |

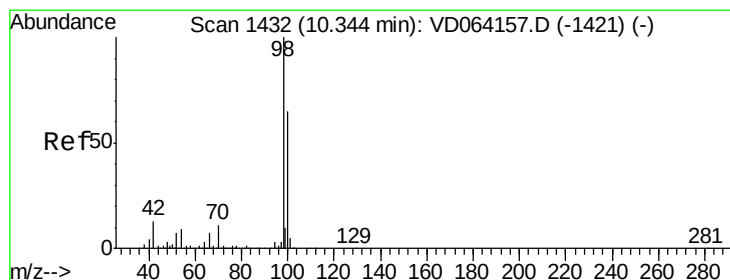
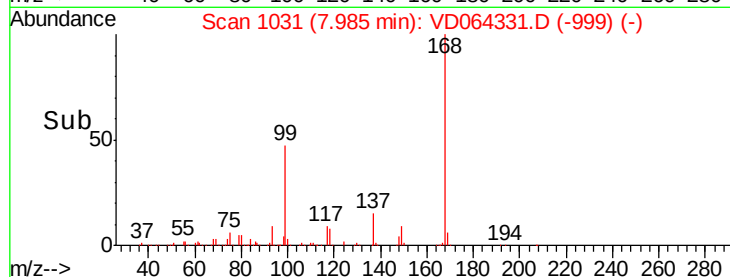
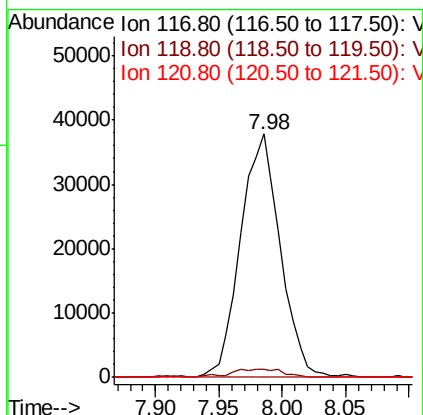
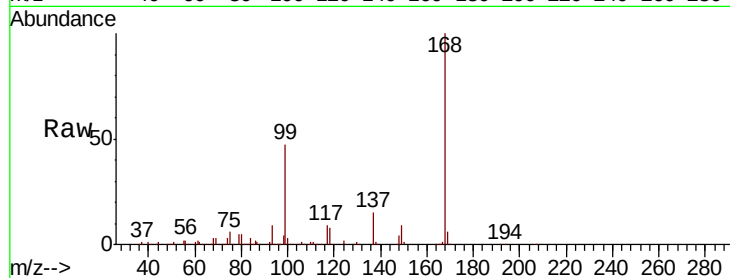




#38  
Carbon Tetrachloride  
Concen: 6.097 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD064331.D  
Acq: 21 Nov 2019 18:23

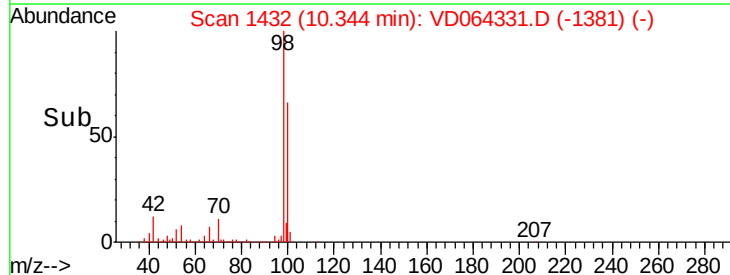
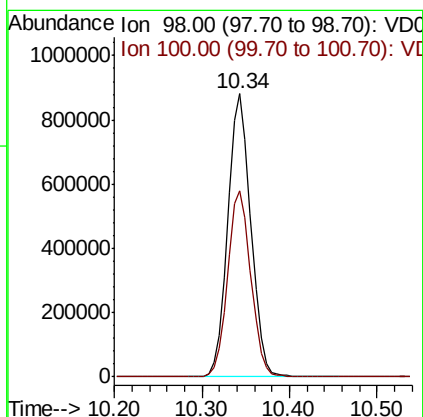
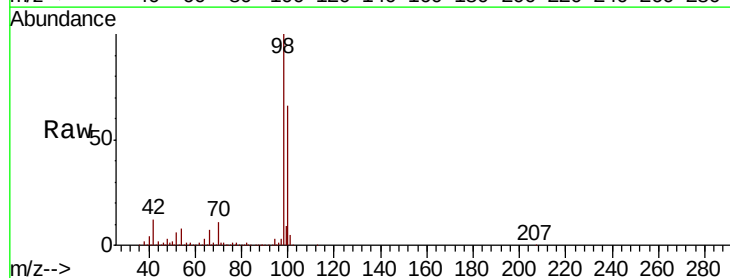
Instrument :  
MSVOA\_D  
ClientSampleId :

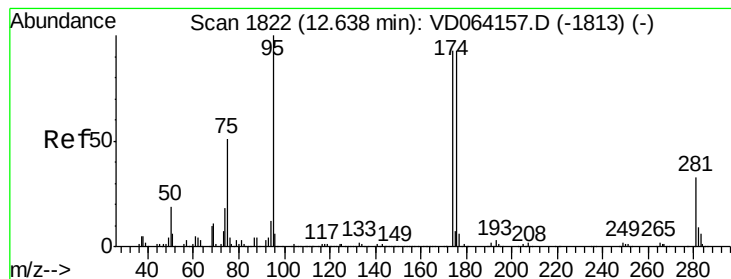
Tot Ion:117 Resp: 82672  
Ion Ratio Lower Upper  
117 100  
119 3.4 77.2 115.8#  
121 0.0 25.5 38.3#



#50  
Toluene-d8  
Concen: 53.175 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD064331.D  
Acq: 21 Nov 2019 18:23

Tgt Ion: 98 Resp: 1581008  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.6 78.8





#62

4-Bromofluorobenzene

Concen: 47.532 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064331.D

Acq: 21 Nov 2019 18:23

Instrument :

MSVOA\_D

ClientSampled :

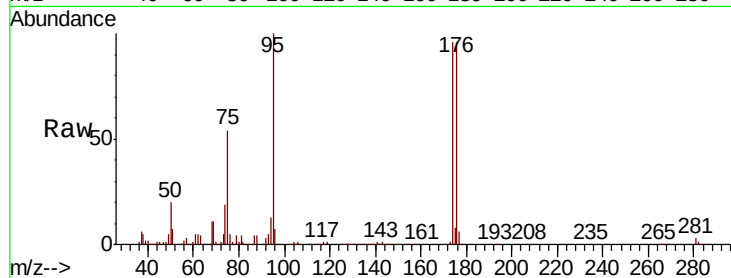
Tot Ion: 95 Resp: 489414

Ion Ratio Lower Upper

95 100

174 96.3 0.0 183.6

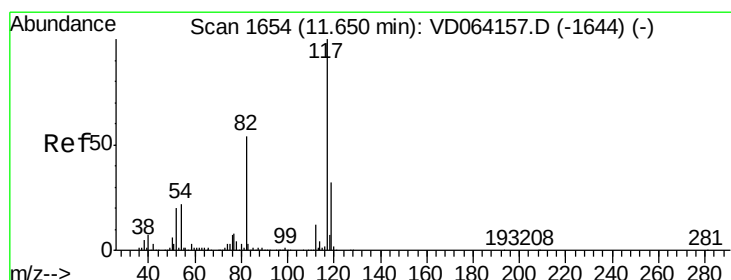
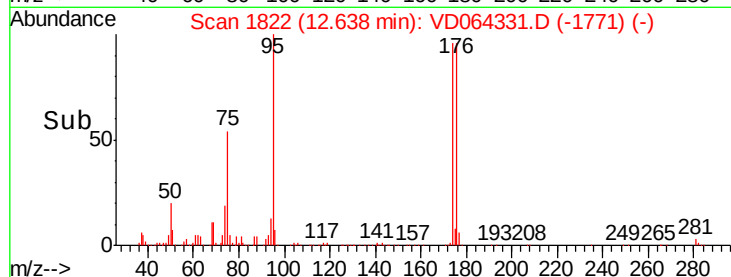
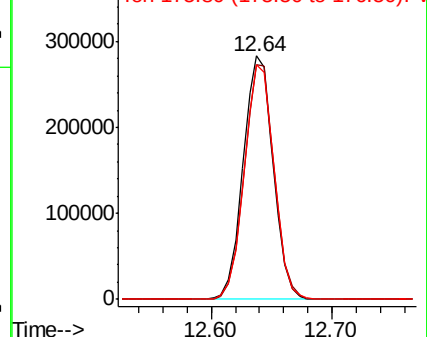
176 95.6 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064331.D

Acq: 21 Nov 2019 18:23

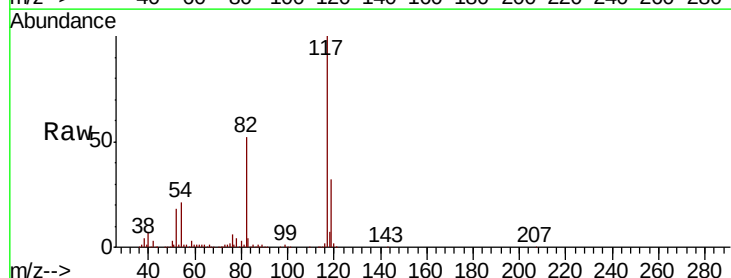
Tgt Ion: 117 Resp: 1177044

Ion Ratio Lower Upper

117 100

82 51.9 42.8 64.2

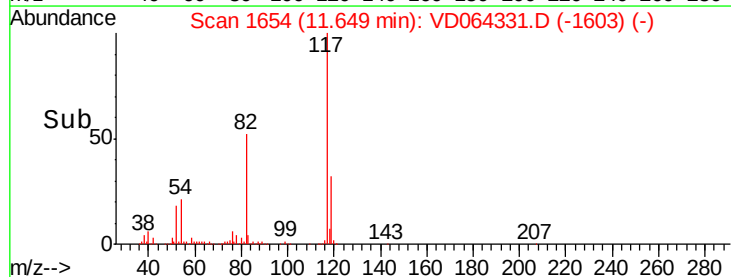
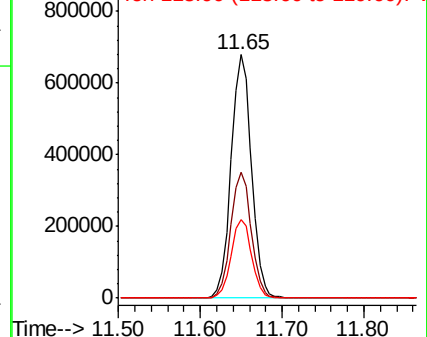
119 32.2 25.6 38.4



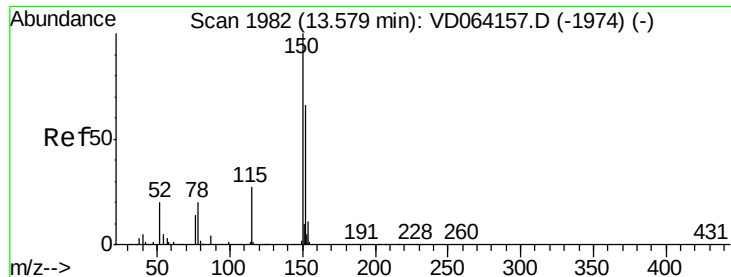
Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





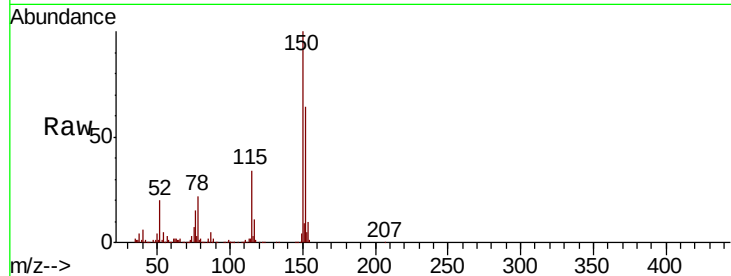


#72

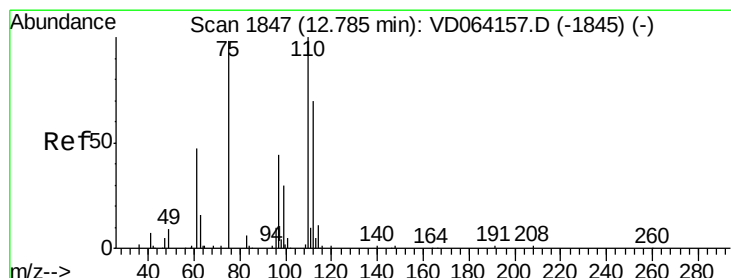
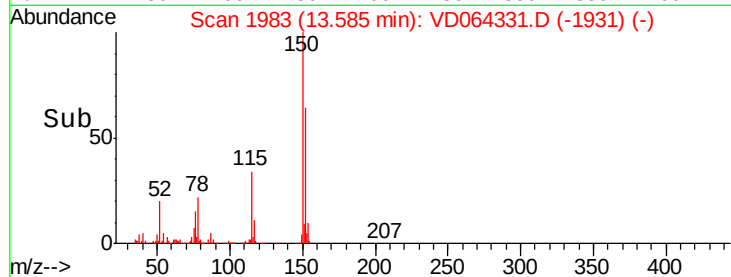
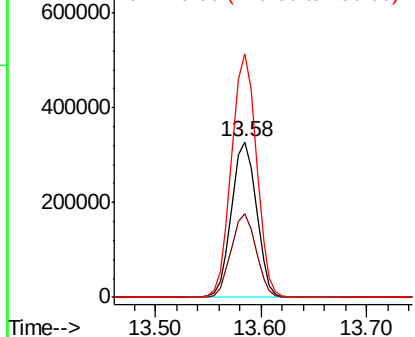
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD064331.D  
Acq: 21 Nov 2019 18:23

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.7  | 27.4  | 82.2  |
| 150     | 156.5 | 0.0   | 351.6 |



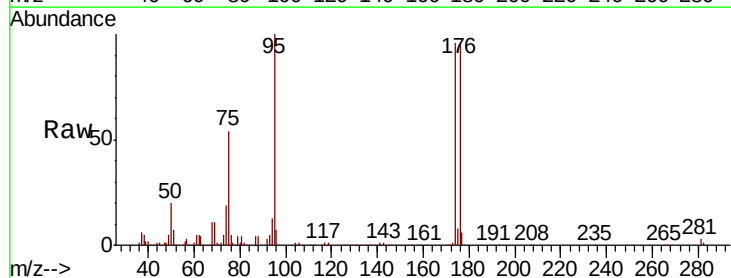
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



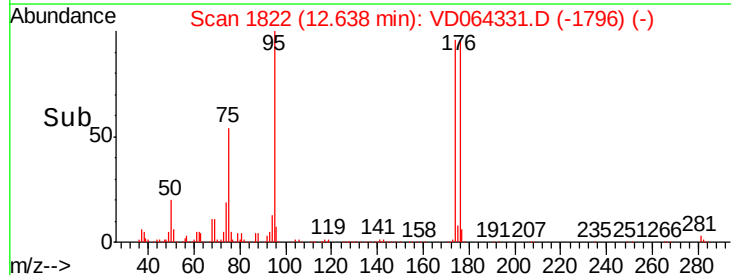
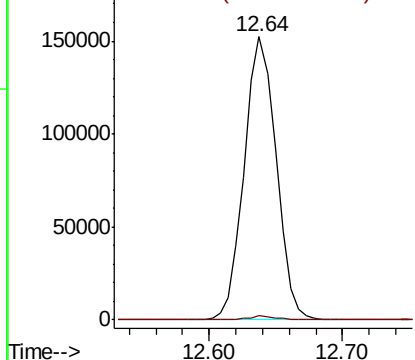
#76

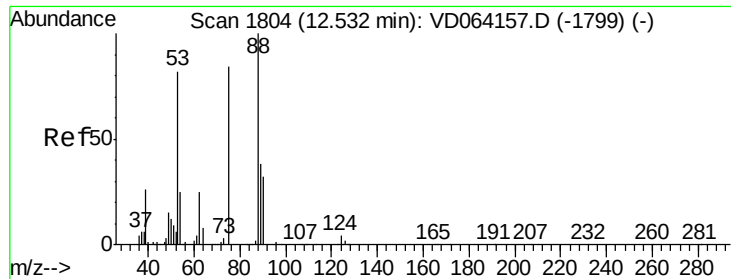
1,2,3-Trichloropropane  
Concen: 58.498 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD064331.D  
Acq: 21 Nov 2019 18:23

| Tgt 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: 116.200 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064331.D

Acq: 21 Nov 2019 18:23

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 75 Resp: 252146

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

89 0.0 36.6 55.0#

