

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111519\  
 Data File : VD064241.D  
 Acq On : 15 Nov 2019 23:11  
 Operator : VA/SY  
 Sample : VD1115SBL02  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 18 00:42:17 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

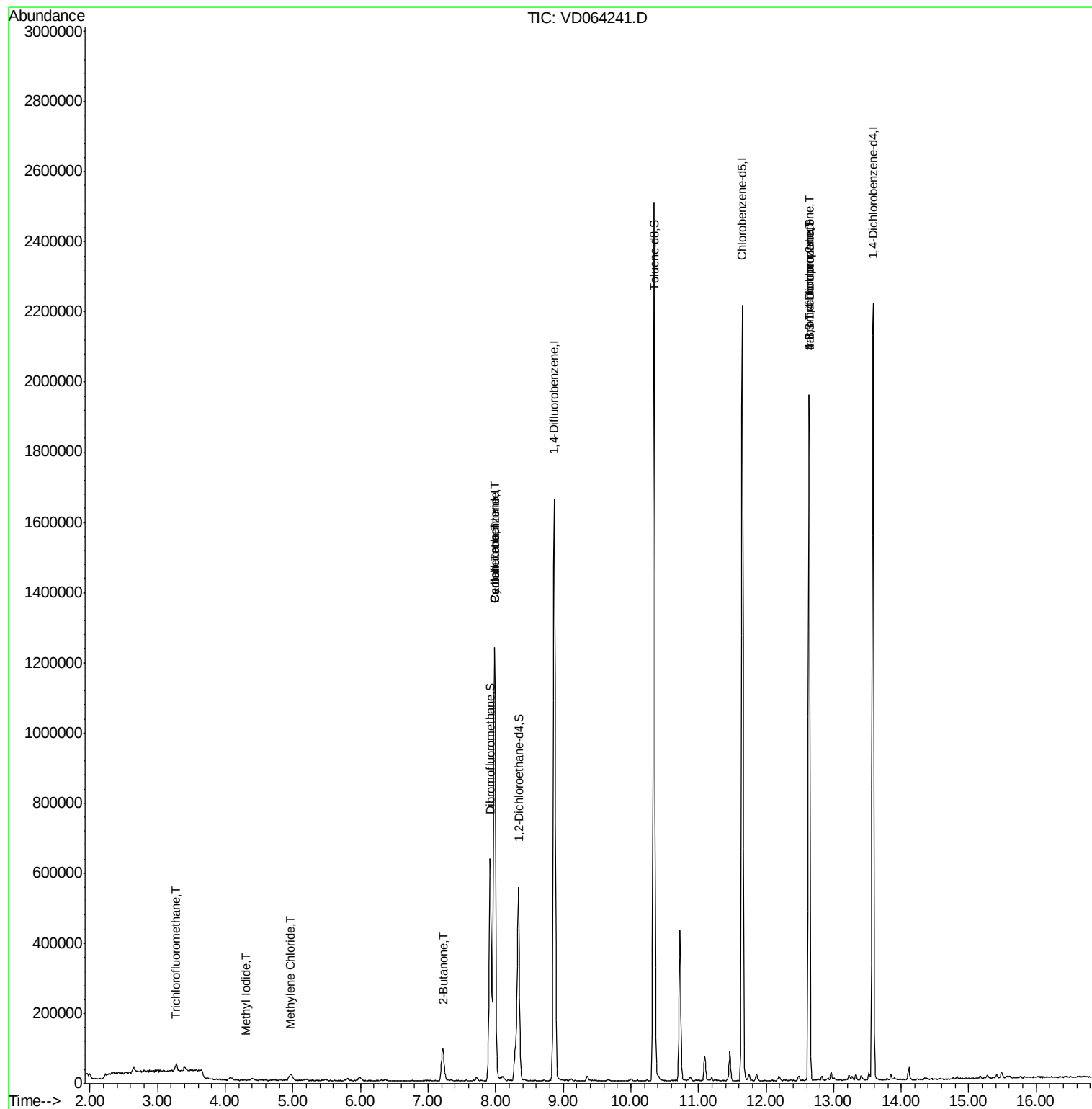
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.99  | 168  | 1009964  | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 1458916  | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 1267466  | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 614720   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 426027   | 51.29   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 102.58% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 437421   | 52.23   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 104.46% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 1692344  | 53.57   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 107.14% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 538820   | 49.25   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 98.50%  |          |
| Target Compounds               |       |      |          |         |         |          |
| 7) Trichlorofluoromethane      | 3.27  | 101  | 18104    | 1.162   | ug/l    | 88       |
| 10) Methyl Iodide              | 4.30  | 142  | 1865     | 2.207   | ug/l #  | 94       |
| 20) Methylene Chloride         | 4.97  | 84   | 13398    | 1.348   | ug/l    | 98       |
| 25) 2-Butanone                 | 7.23  | 43   | 5732     | 2.255   | ug/l #  | 82       |
| 31) Cyclohexane                | 7.99  | 56   | 22531    | 1.382   | ug/l #  | 9        |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 91573    | 6.356   | ug/l #  | 15       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 285692   | 57.699  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 285692   | 114.614 | ug/l #  | 10       |

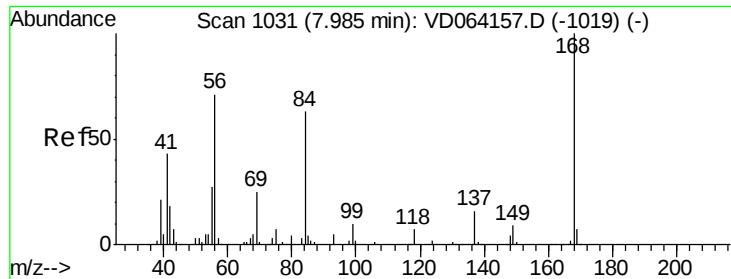
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111519\  
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Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Nov 18 00:42:17 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: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064241.D

Acq: 15 Nov 2019 23:11

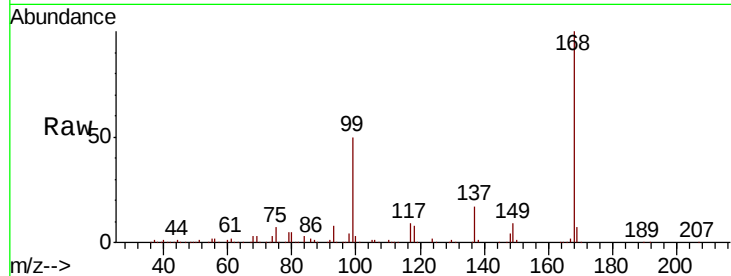
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 1009964

Ion Ratio Lower Upper

168 100

99 49.6 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.99

400000

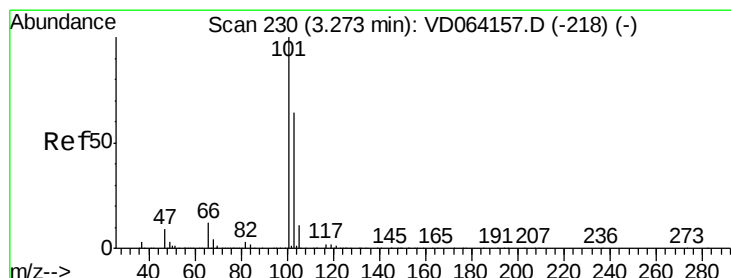
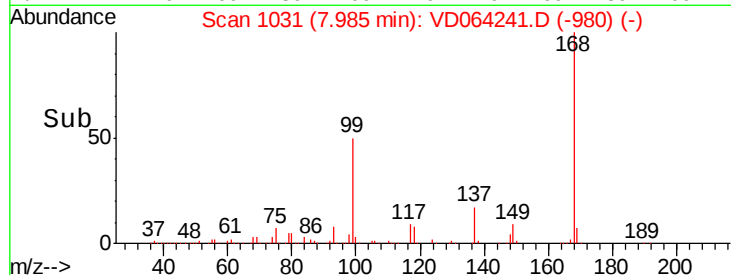
300000

200000

100000

0

Time-->



#7

Trichlorofluoromethane

Concen: 1.162 ug/l

RT: 3.27 min Scan# 230

Delta R.T. 0.00 min

Lab File: VD064241.D

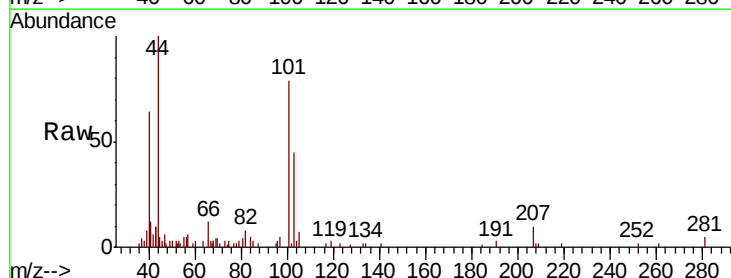
Acq: 15 Nov 2019 23:11

Tgt Ion:101 Resp: 18104

Ion Ratio Lower Upper

101 100

103 54.3 50.8 76.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.27

10000

8000

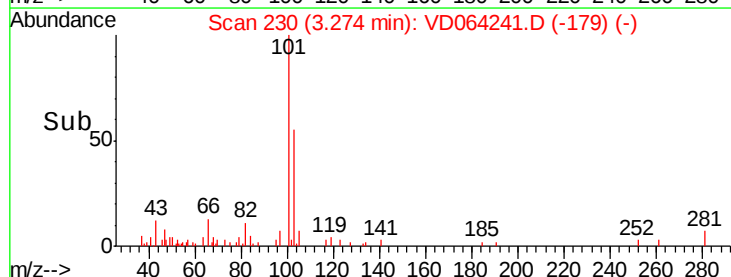
6000

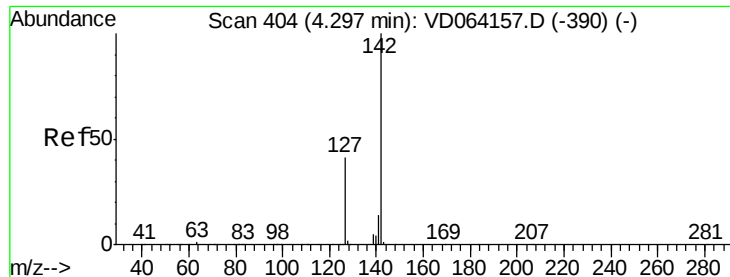
4000

2000

0

Time-->

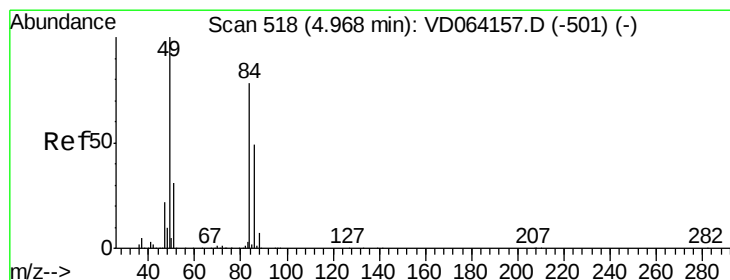
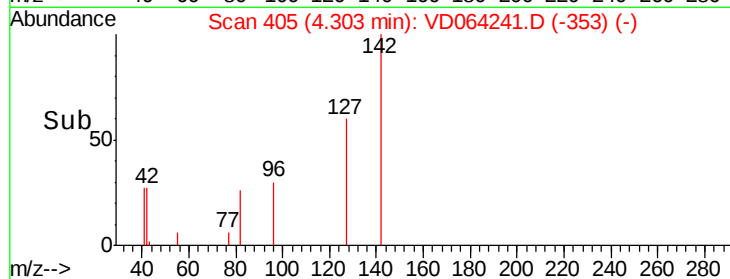
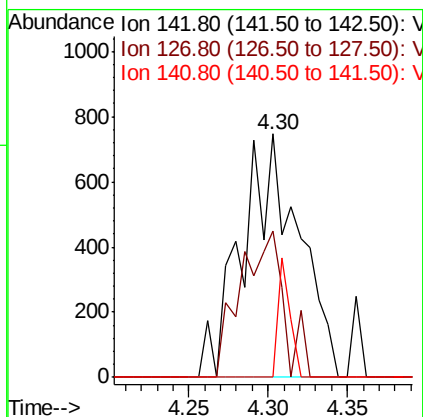
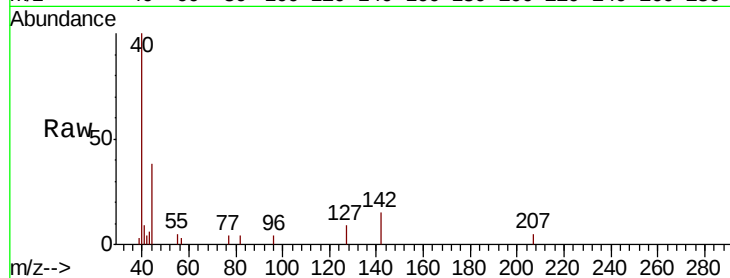




#10  
Methvl Iodide  
Concen: 2.207 ug/l  
RT: 4.30 min Scan# 405  
Delta R.T. 0.01 min  
Lab File: VD064241.D  
Acq: 15 Nov 2019 23:11

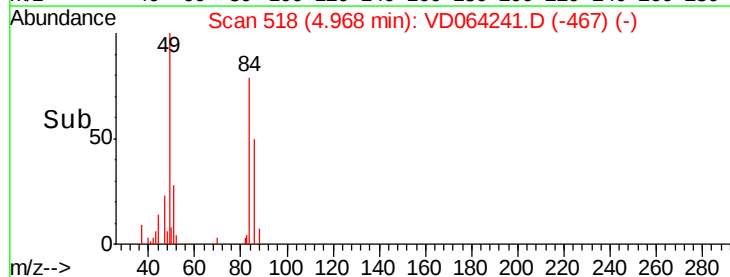
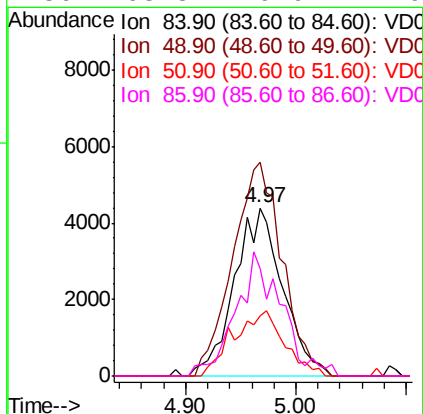
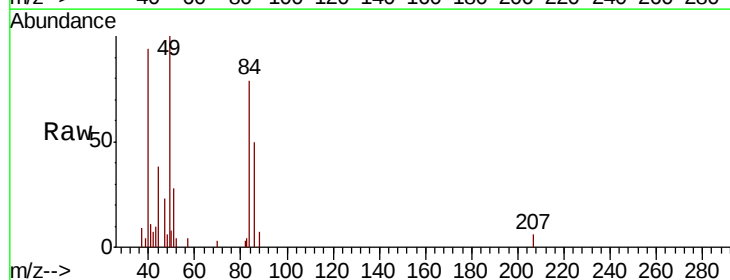
Instrument :  
MSVOA\_D  
ClientSampled :

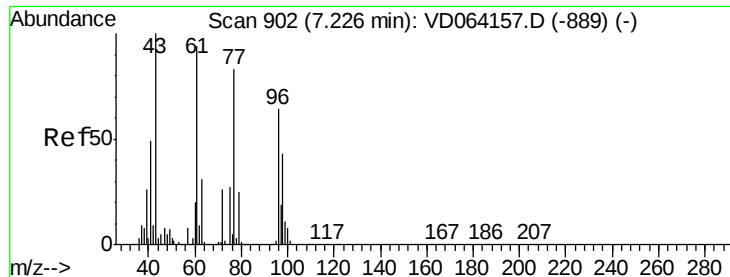
Tot Ion:142 Resp: 1865  
Ion Ratio Lower Upper  
142 100  
127 46.0 34.4 51.6  
141 10.3 11.2 16.8#



#20  
Methylene Chloride  
Concen: 1.348 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD064241.D  
Acq: 15 Nov 2019 23:11

Tgt Ion: 84 Resp: 13398  
Ion Ratio Lower Upper  
84 100  
49 127.2 102.1 153.1  
51 35.7 32.2 48.2  
86 63.8 49.9 74.9





#25

2-Butanone

Concen: 2.255 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.00 min

Lab File: VD064241.D

Acq: 15 Nov 2019 23:11

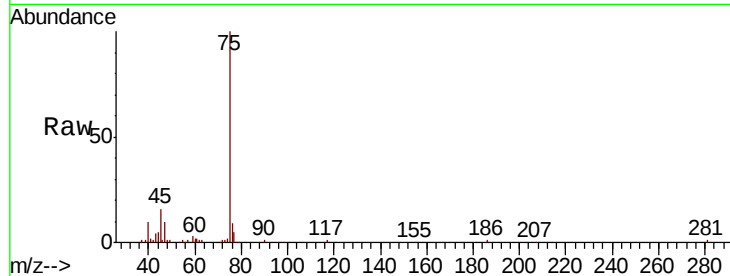
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 5732

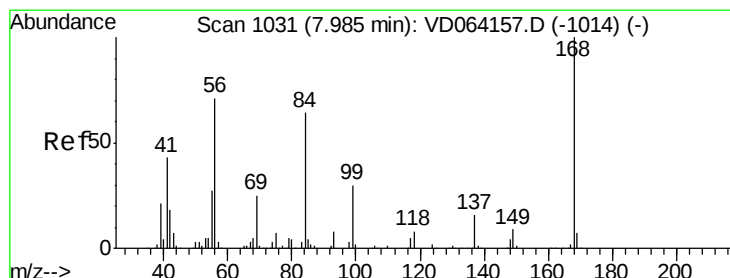
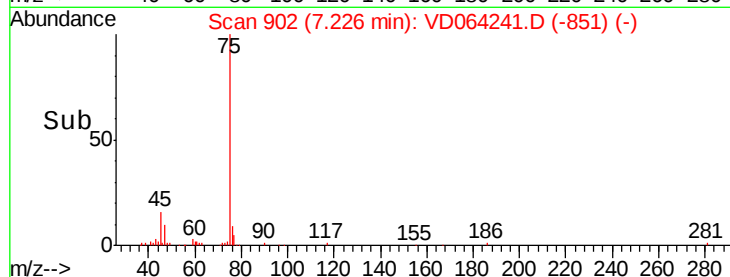
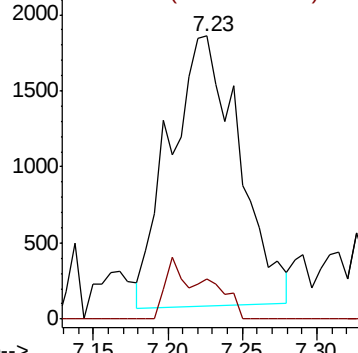
Ion Ratio Lower Upper

43 100

72 16.5 20.6 30.8#



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



#31

Cyclohexane

Concen: 1.382 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064241.D

Acq: 15 Nov 2019 23:11

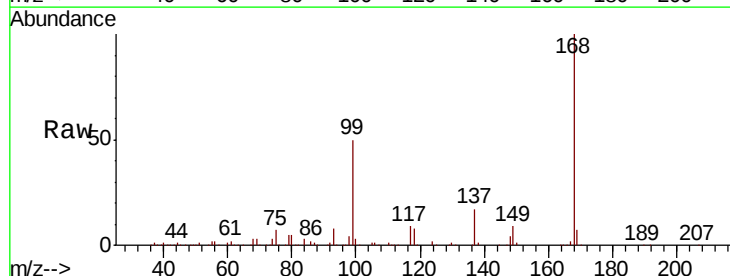
Tgt Ion: 56 Resp: 22531

Ion Ratio Lower Upper

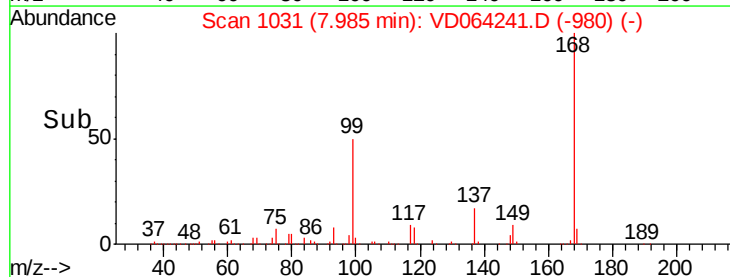
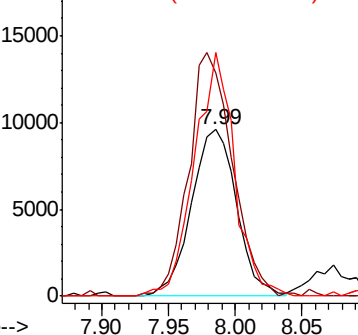
56 100

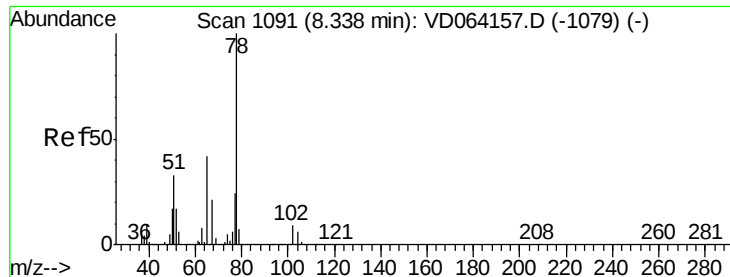
69 134.5 28.2 42.4#

84 146.3 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

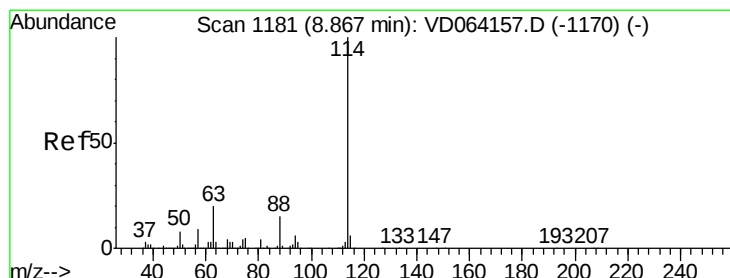
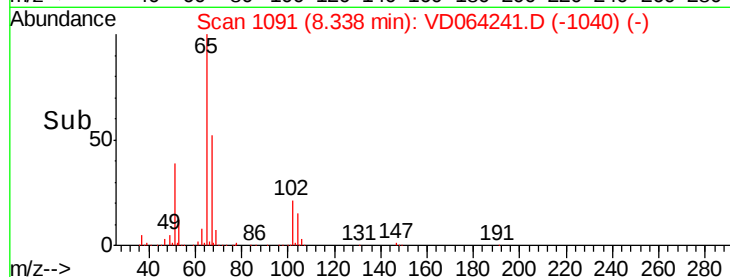
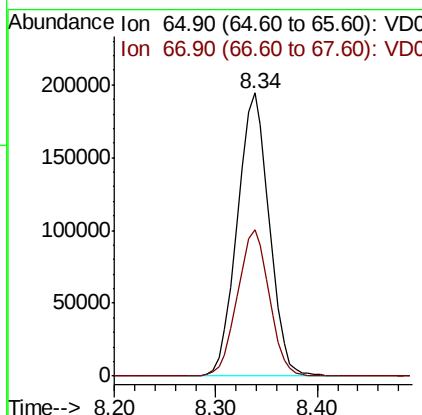
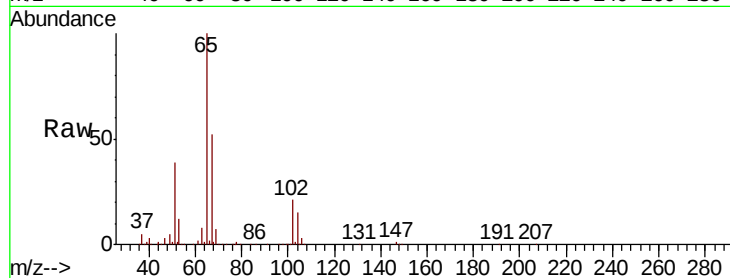




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.289 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.00 min  
 Lab File: VD064241.D  
 Acq: 15 Nov 2019 23:11

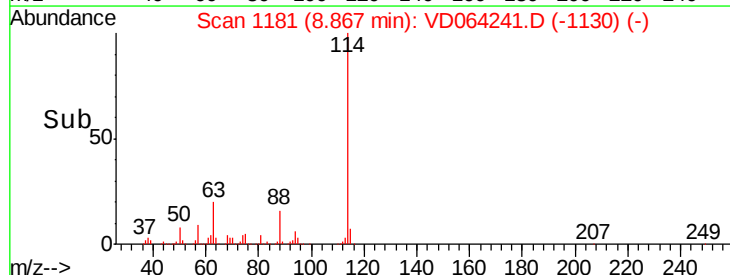
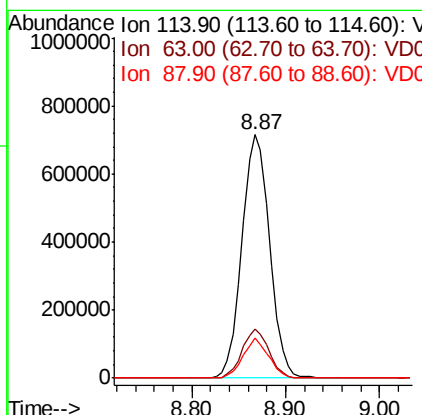
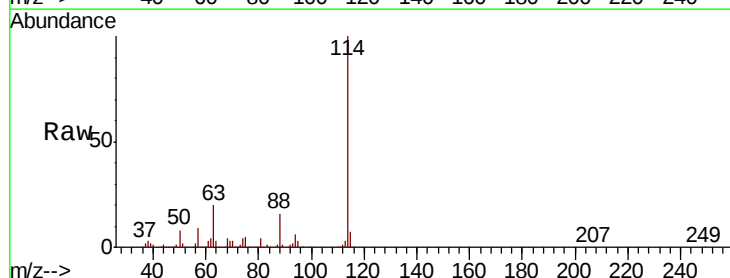
Instrument :  
 MSVOA\_D  
 ClientSampled :

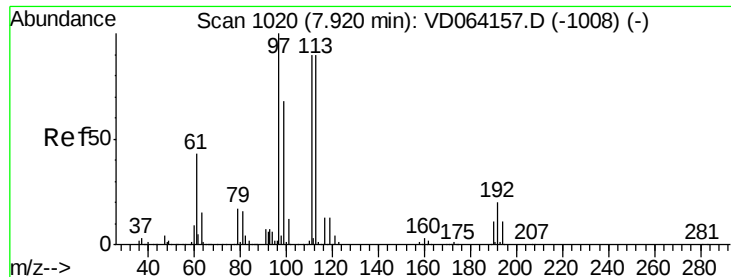
Tot Ion: 65 Resp: 426027  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064241.D  
 Acq: 15 Nov 2019 23:11

Tgt Ion: 114 Resp: 1458916  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 40.0  
 88 16.3 0.0 30.2

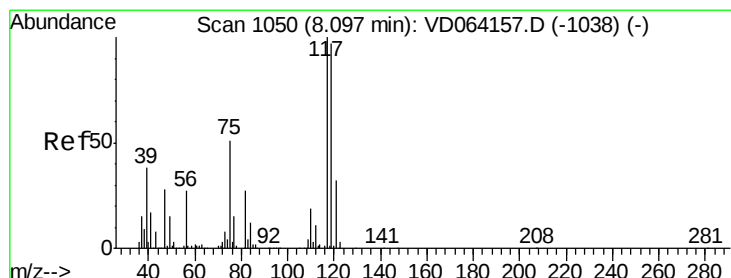
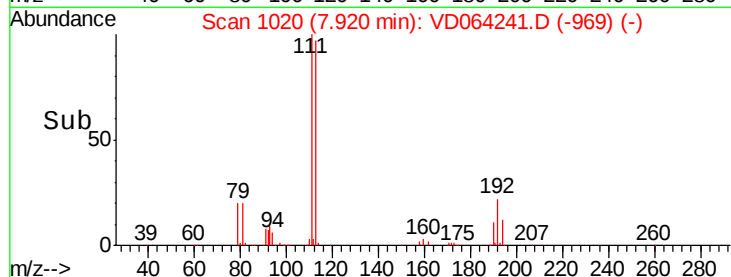
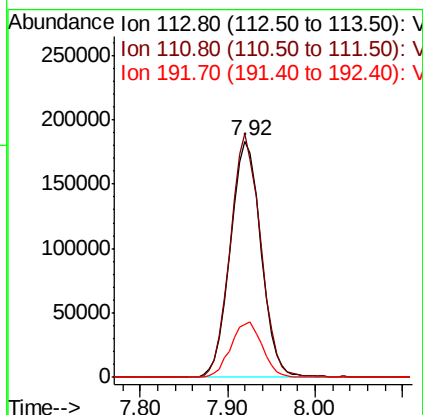
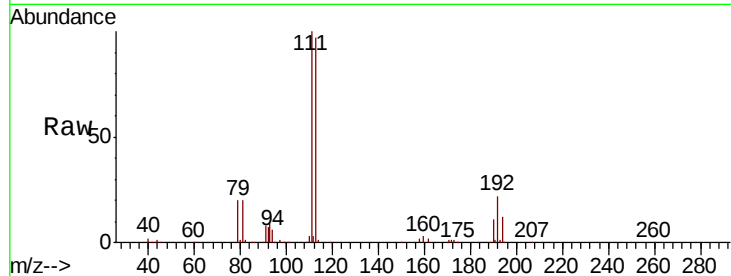




#35  
 Dibromofluoromethane  
 Concen: 52.233 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064241.D  
 Acq: 15 Nov 2019 23:11

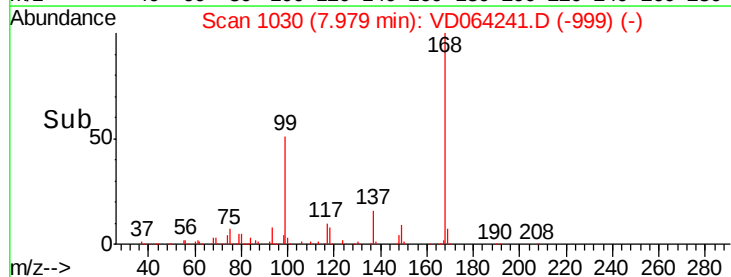
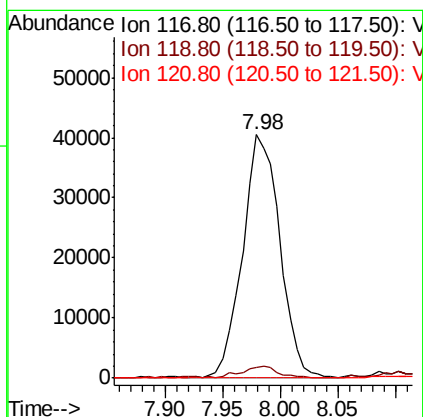
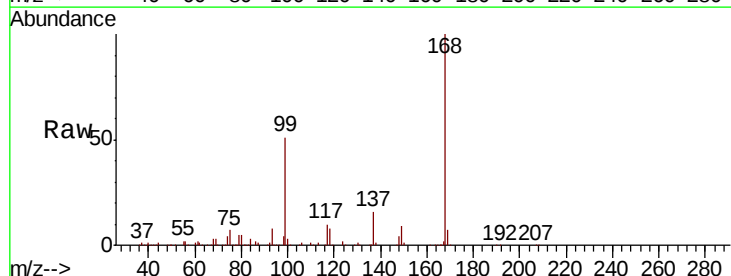
Instrument :  
 MSVOA\_D  
 ClientSampled :

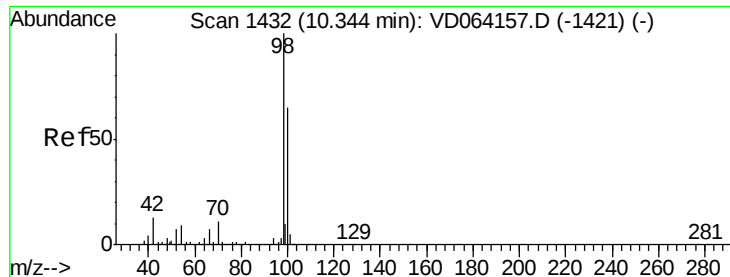
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.1 | 81.5  | 122.3 |
| 192     | 23.9  | 18.8  | 28.2  |



#38  
 Carbon Tetrachloride  
 Concen: 6.356 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.12 min  
 Lab File: VD064241.D  
 Acq: 15 Nov 2019 23:11

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.4   | 77.2  | 115.8# |
| 121     | 0.0   | 25.5  | 38.3#  |

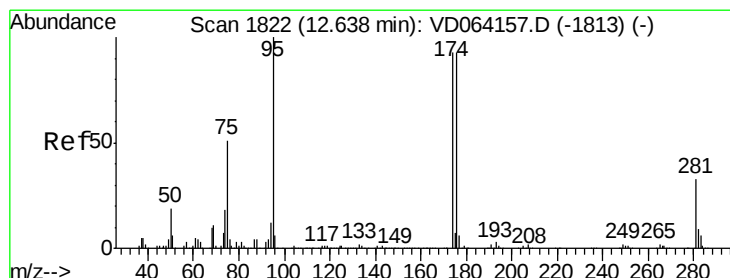
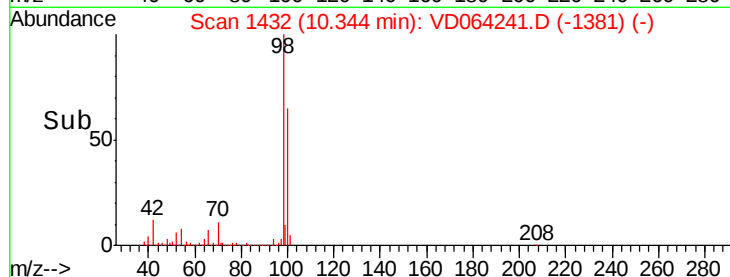
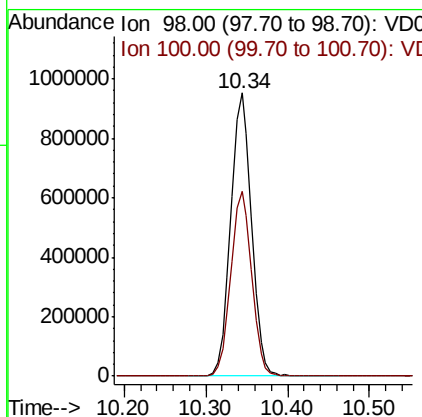
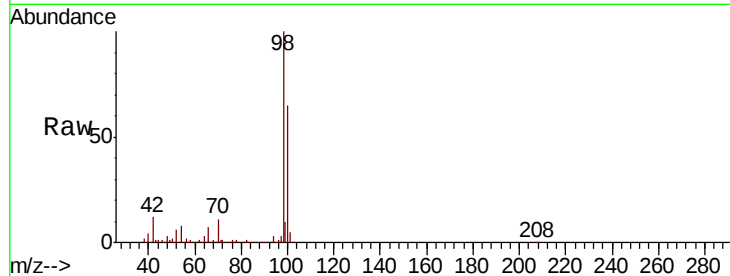




#50  
Toluene-d8  
Concen: 53.569 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD064241.D  
Acq: 15 Nov 2019 23:11

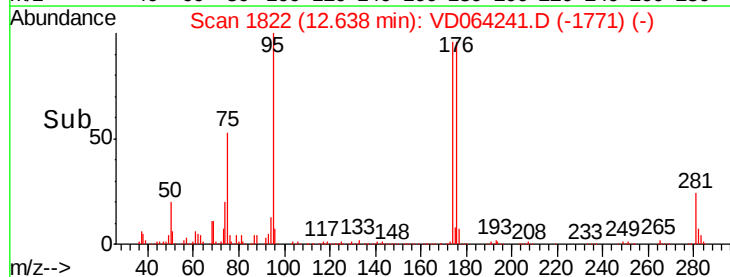
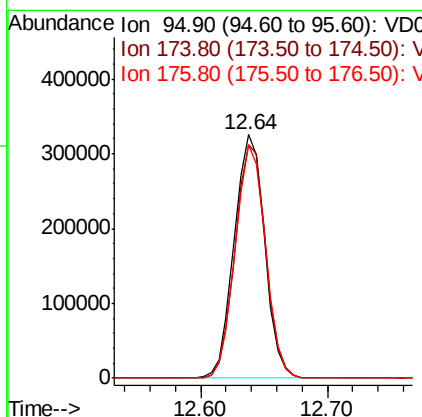
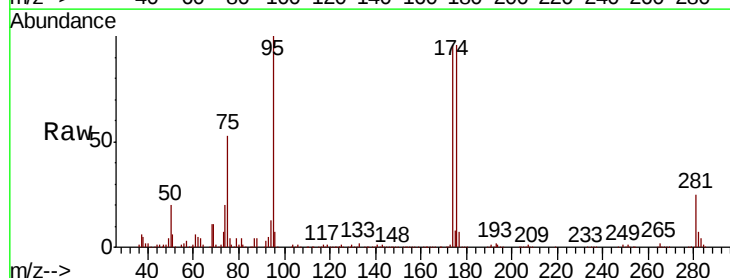
Instrument :  
MSVOA\_D  
ClientSampled :

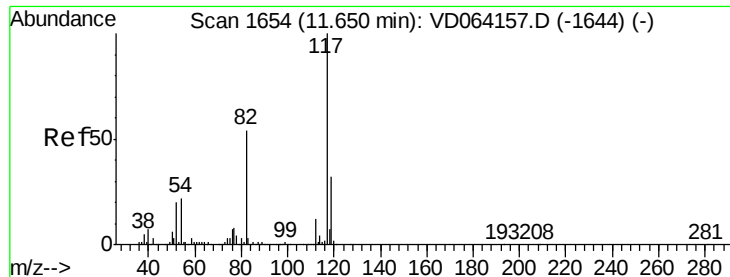
Tot Ion: 98 Resp: 1692344  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 49.250 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064241.D  
Acq: 15 Nov 2019 23:11

Tgt Ion: 95 Resp: 538820  
Ion Ratio Lower Upper  
95 100  
174 97.0 0.0 183.6  
176 95.4 0.0 180.2

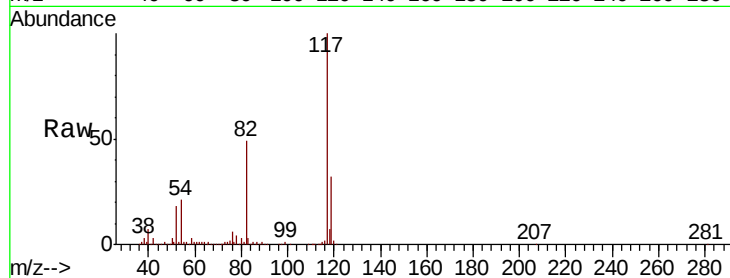




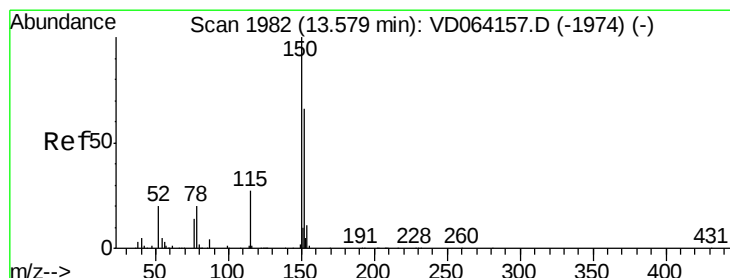
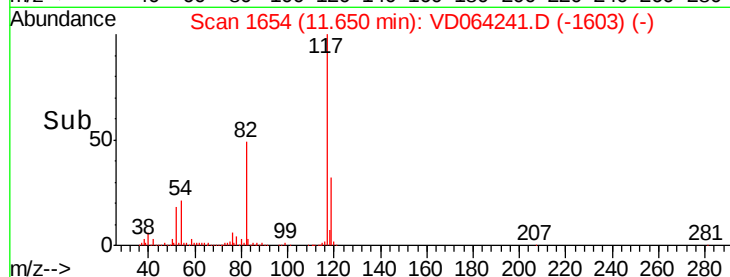
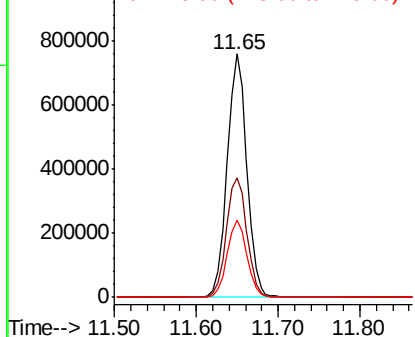
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064241.D  
Acq: 15 Nov 2019 23:11

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 1267466  
Ion Ratio Lower Upper  
117 100  
82 49.3 42.8 64.2  
119 31.9 25.6 38.4

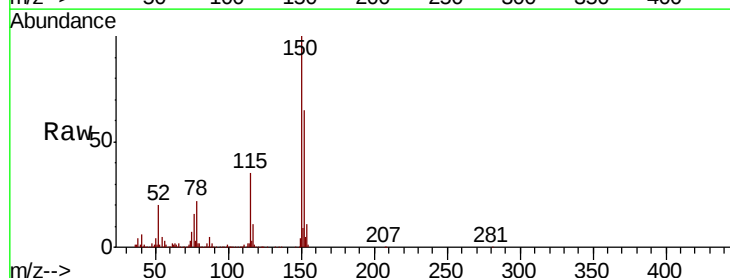


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

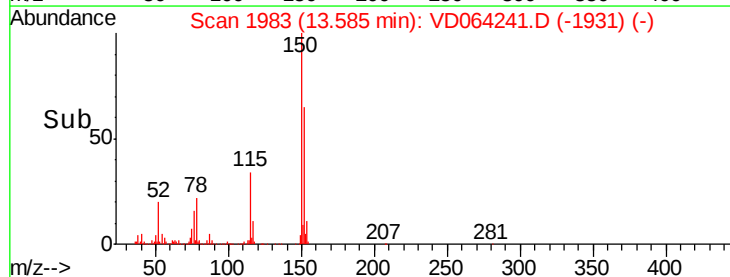
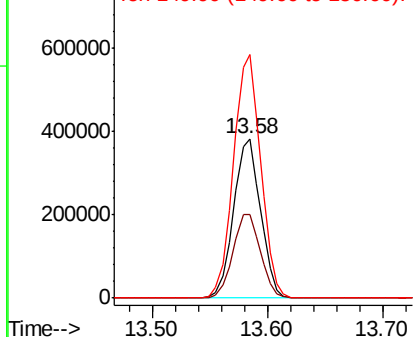


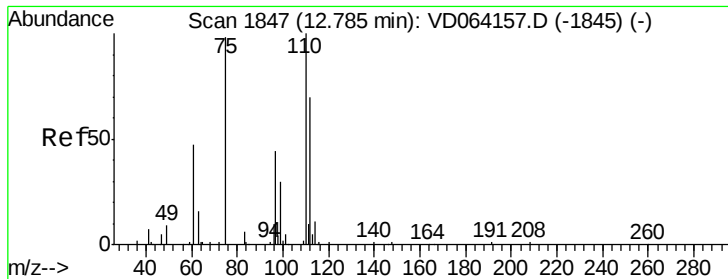
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD064241.D  
Acq: 15 Nov 2019 23:11

Tgt Ion:152 Resp: 614720  
Ion Ratio Lower Upper  
152 100  
115 54.1 27.4 82.2  
150 154.9 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: 57.699 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064241.D

Acq: 15 Nov 2019 23:11

Instrument :

MSVOA\_D

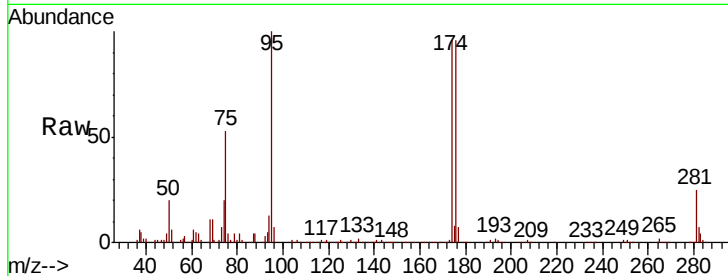
ClientSampleId :

Tot Ion: 75 Resp: 285692

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

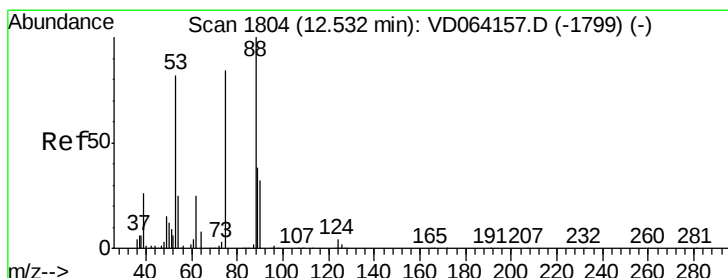
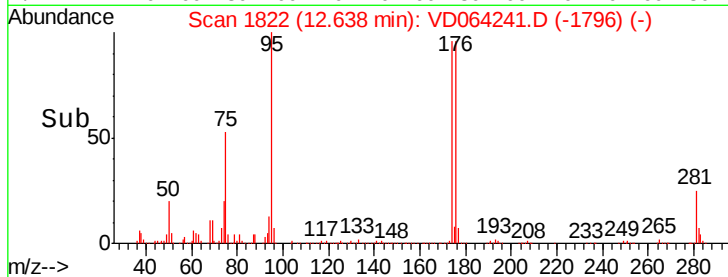
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 114.614 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064241.D

Acq: 15 Nov 2019 23:11

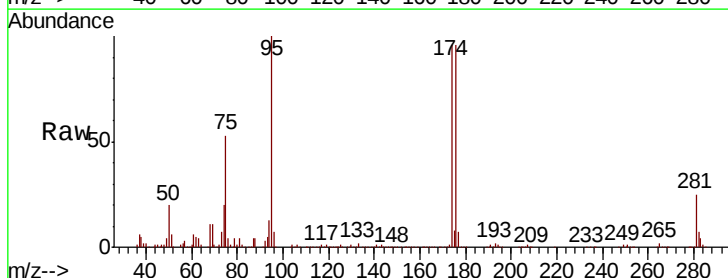
Tgt Ion: 75 Resp: 285692

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

89 0.1 36.6 55.0#



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

12.64

150000

100000

50000

0

Time-->

