

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111819\  
 Data File : VD064276.D  
 Acq On : 18 Nov 2019 20:48  
 Operator : VA/SY  
 Sample : K5792-03  
 Misc : 5.06G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 19 04:40:28 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  | 923380   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 1339328  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 1042172  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 382492   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 369054   | 48.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20%  |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 399886   | 52.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.02% |          |
| 50) Toluene-d8              | 10.34 | 98   | 1516103  | 52.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.56% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 408420   | 40.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.32%  |          |

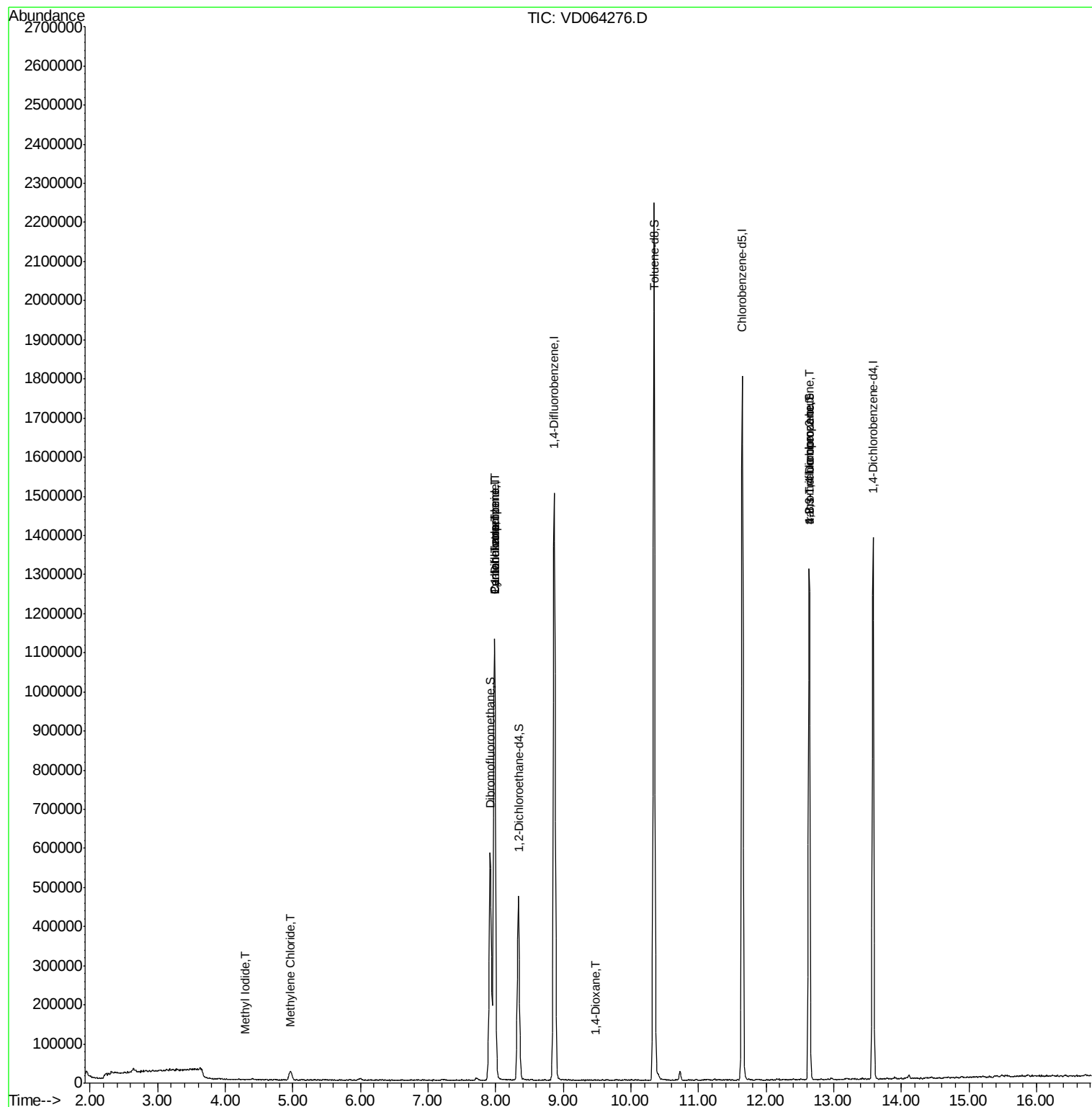
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.30  | 142  | 80       | 2.040   | ug/l # | 41     |
| 20) Methylene Chloride         | 4.97  | 84   | 17660    | 1.943   | ug/l # | 84     |
| 31) Cyclohexane                | 7.98  | 56   | 18173    | 1.219   | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 61305    | 4.960   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 84413    | 6.382   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.48  | 88   | 162      | 3.064   | ug/l # | 24     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 211074   | 68.512  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 211074   | 136.091 | ug/l # | 10     |

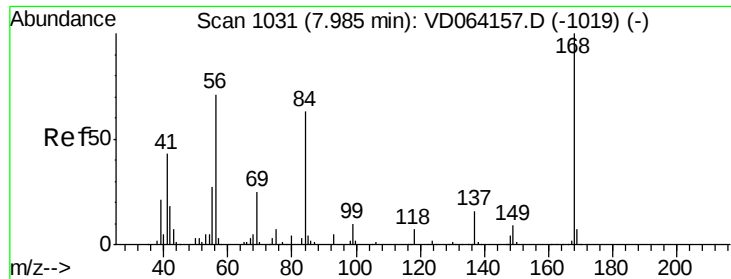
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K5792-03  
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MSVOA\_D  
ClientSampleId :

Quant Time: Nov 19 04:40:28 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: VD064276.D

Acq: 18 Nov 2019 20:48

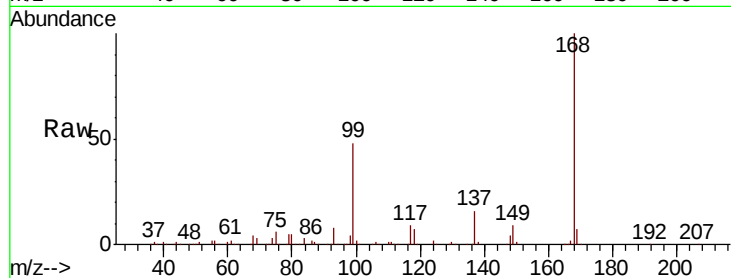
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:168 Resp: 923380

Ion Ratio Lower Upper

168 100

99 48.3 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

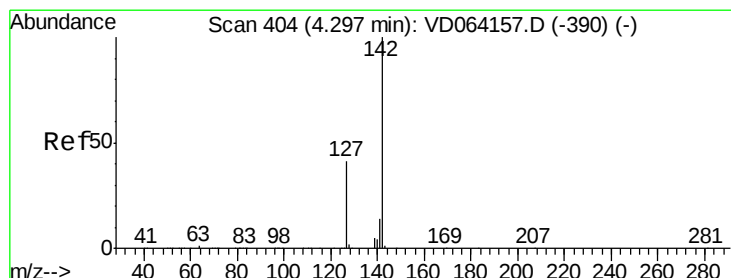
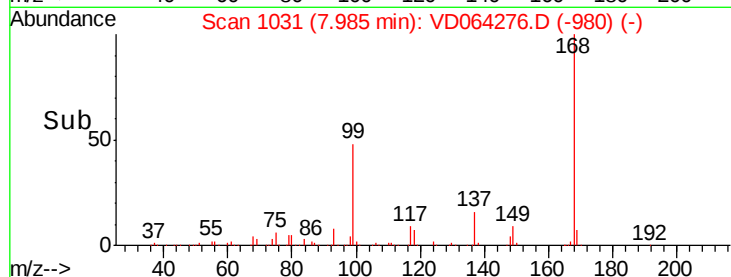
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 2.040 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064276.D

Acq: 18 Nov 2019 20:48

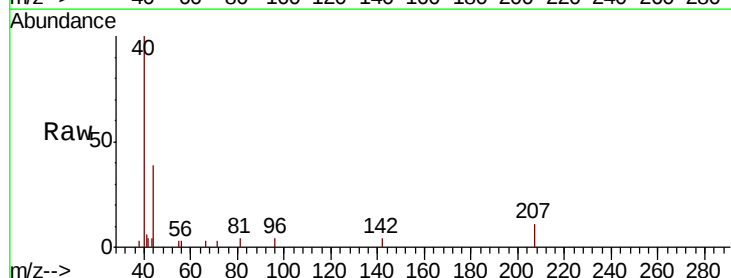
Tgt Ion:142 Resp: 80

Ion Ratio Lower Upper

142 100

127 0.0 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

300

250

200

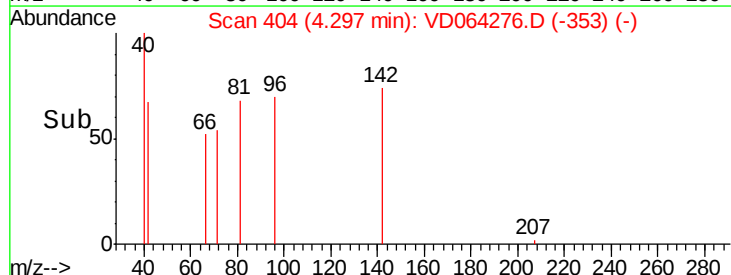
150

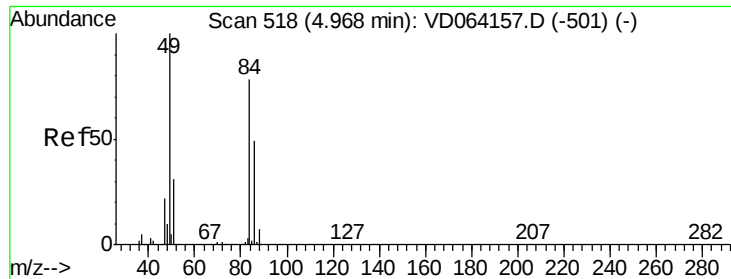
100

50

0

Time-->

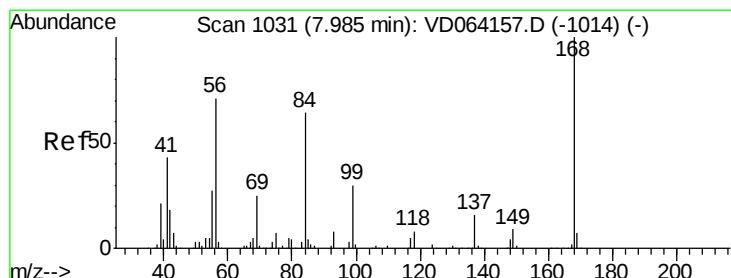
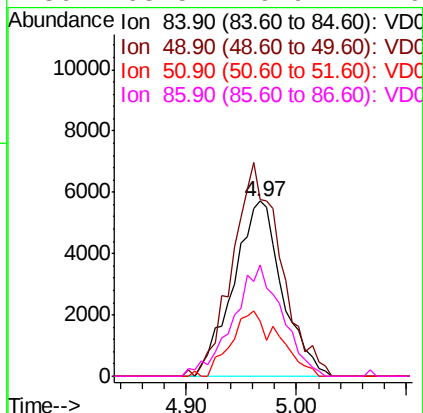
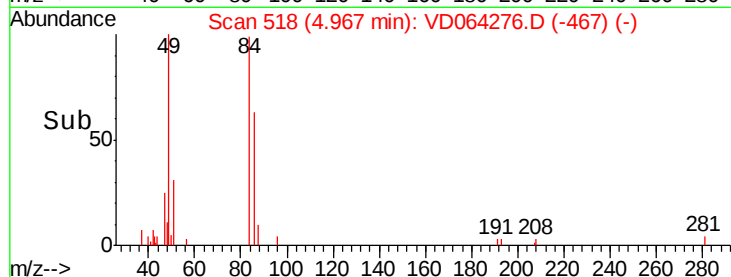
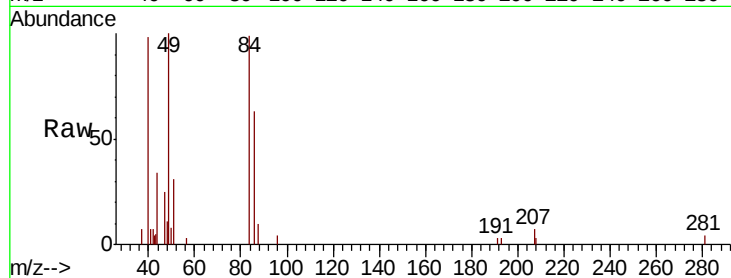




#20  
Methvlene Chloride  
Concen: 1.943 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. -0.00 min  
Lab File: VD064276.D  
Acq: 18 Nov 2019 20:48

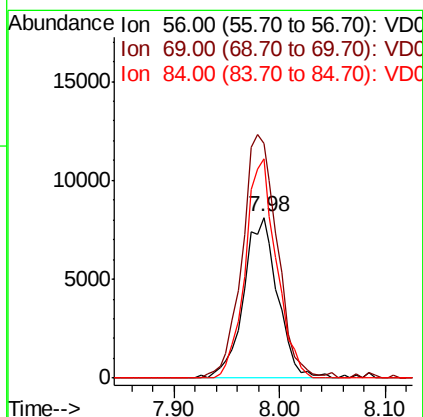
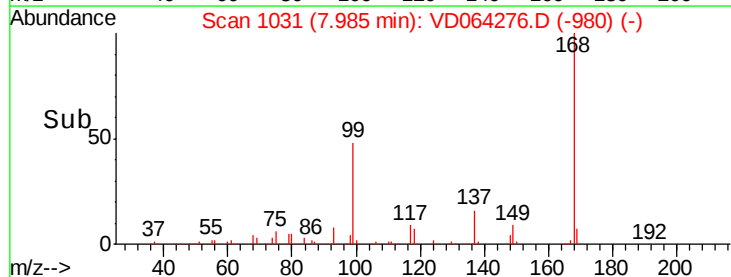
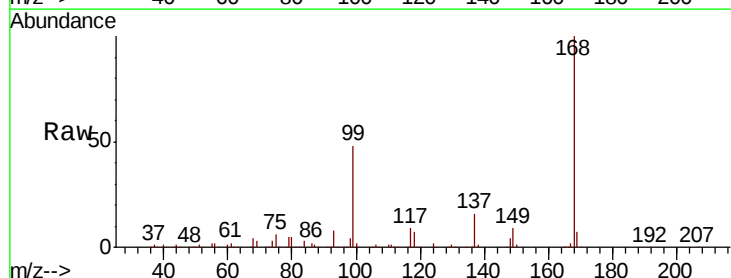
Instrument :  
MSVOA\_D  
ClientSampleId :

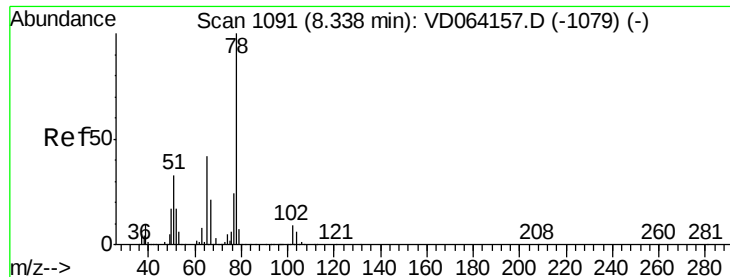
Tot Ion: 84 Resp: 17660  
Ion Ratio Lower Upper  
84 100  
49 101.2 102.1 153.1#  
51 31.5 32.2 48.2#  
86 63.5 49.9 74.9



#31  
Cyclohexane  
Concen: 1.219 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VD064276.D  
Acq: 18 Nov 2019 20:48

Tgt Ion: 56 Resp: 18173  
Ion Ratio Lower Upper  
56 100  
69 146.1 28.2 42.4#  
84 136.1 71.8 107.6#

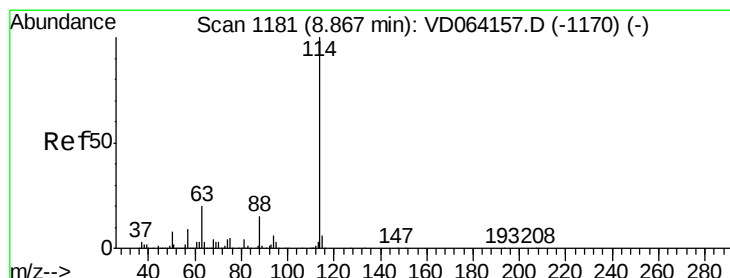
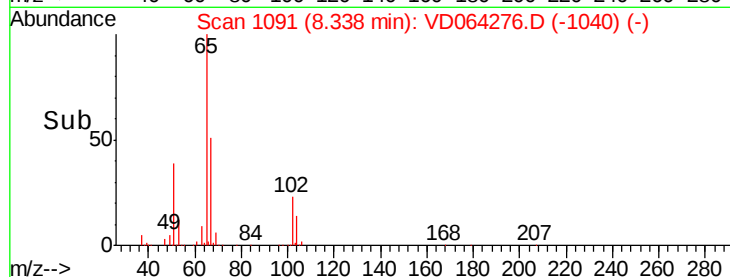
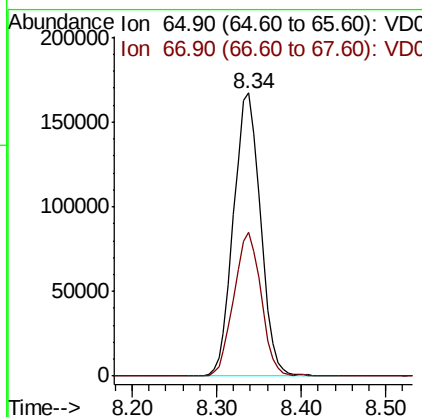
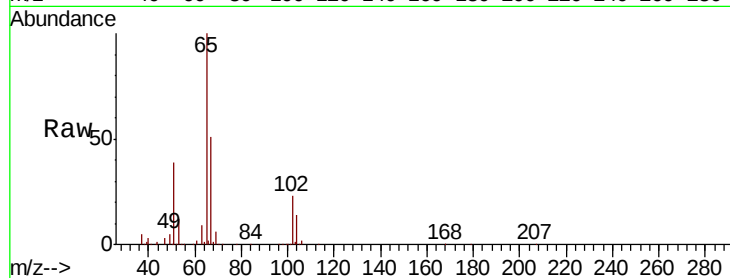




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.596 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VD064276.D  
 Acq: 18 Nov 2019 20:48

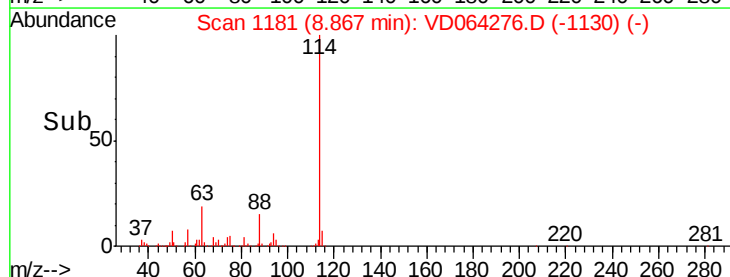
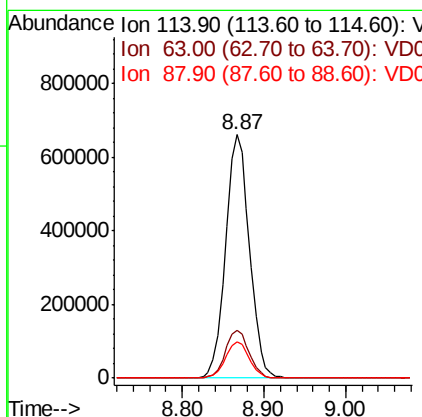
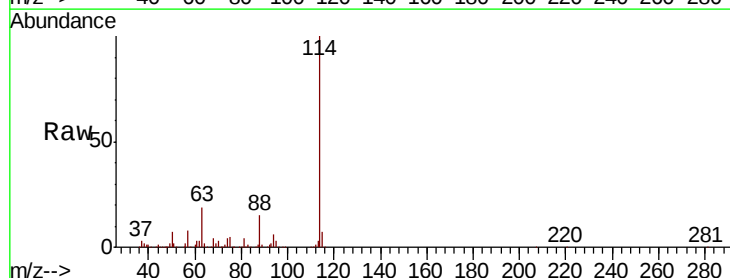
Instrument :  
 MSVOA\_D  
 ClientSampleId :

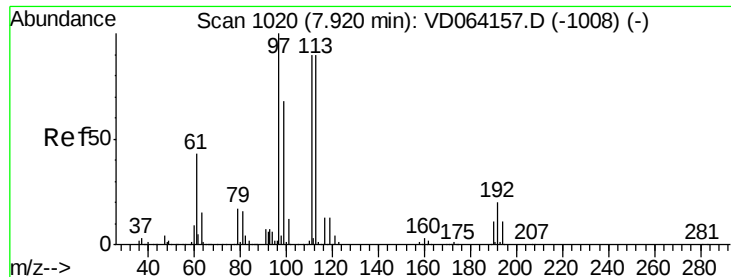
Tot Ion: 65 Resp: 369054  
 Ion Ratio Lower Upper  
 65 100  
 67 51.2 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064276.D  
 Acq: 18 Nov 2019 20:48

Tgt Ion: 114 Resp: 1339328  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 40.0  
 88 15.1 0.0 30.2

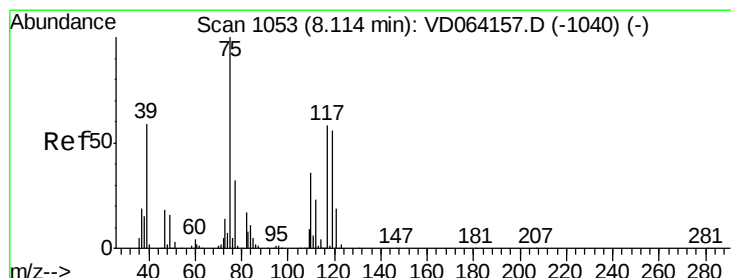
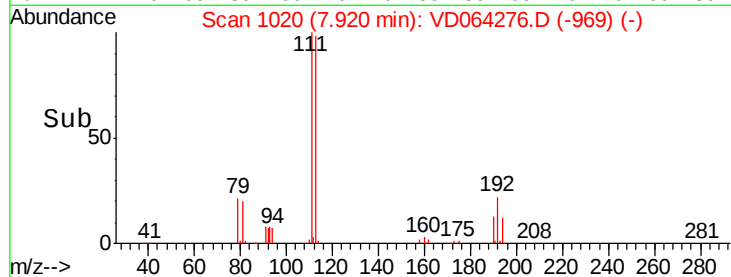
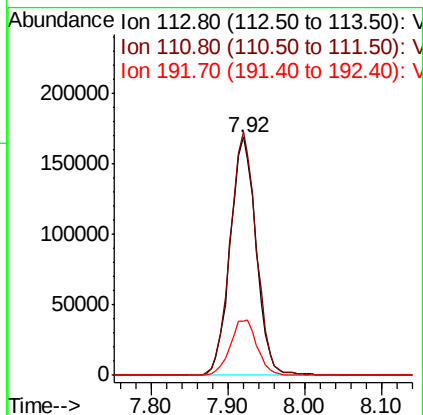
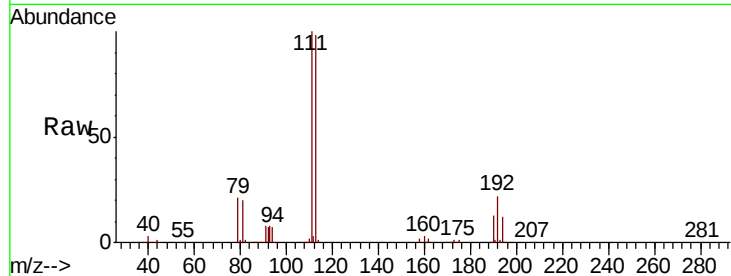




#35  
 Dibromofluoromethane  
 Concen: 52.015 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064276.D  
 Acq: 18 Nov 2019 20:48

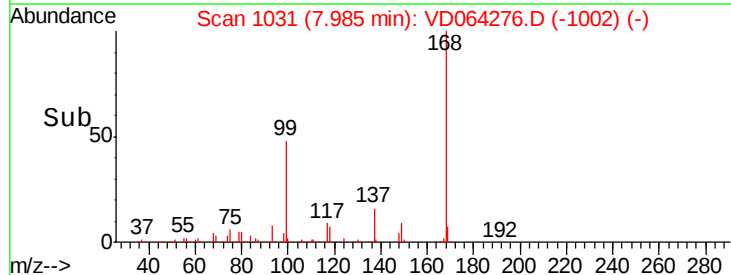
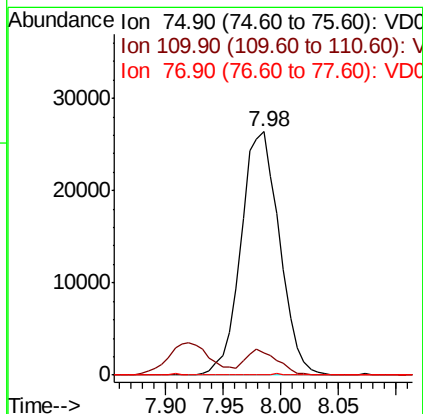
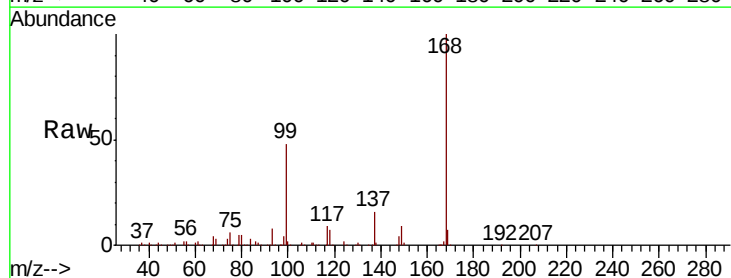
Instrument :  
 MSVOA\_D  
 ClientSampleId :

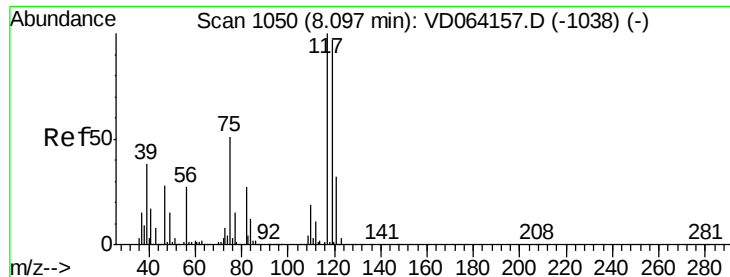
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 81.5  | 122.3 |
| 192     | 23.9  | 18.8  | 28.2  |



#36  
 1,1-Dichloropropene  
 Concen: 4.960 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064276.D  
 Acq: 18 Nov 2019 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 18.3  | 54.9# |
| 77      | 0.1   | 25.0  | 37.6# |





#38

Carbon Tetrachloride

Concen: 6.382 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064276.D

Acq: 18 Nov 2019 20:48

Instrument :

MSVOA\_D

ClientSampled :

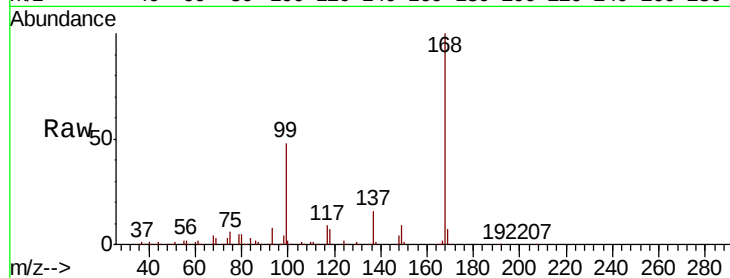
Tot Ion:117 Resp: 84413

Ion Ratio Lower Upper

117 100

119 5.0 77.2 115.8#

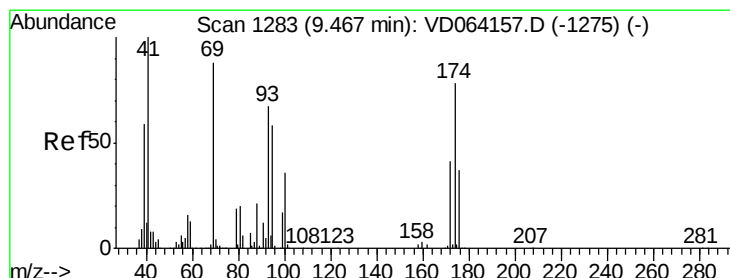
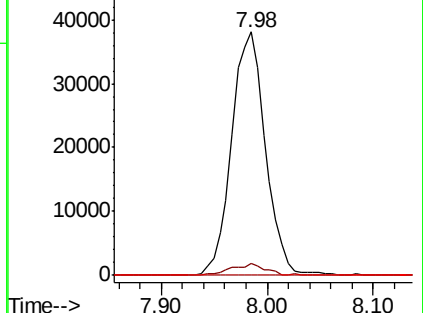
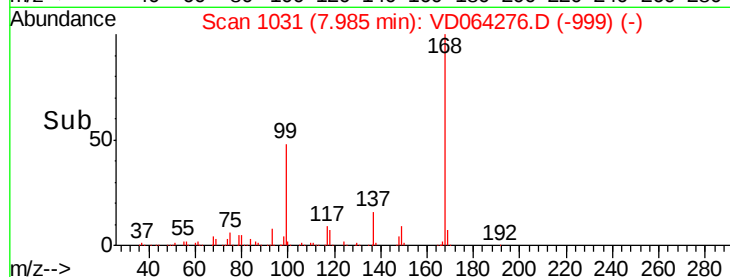
121 0.0 25.5 38.3#



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



#49

1,4-Dioxane

Concen: 3.064 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD064276.D

Acq: 18 Nov 2019 20:48

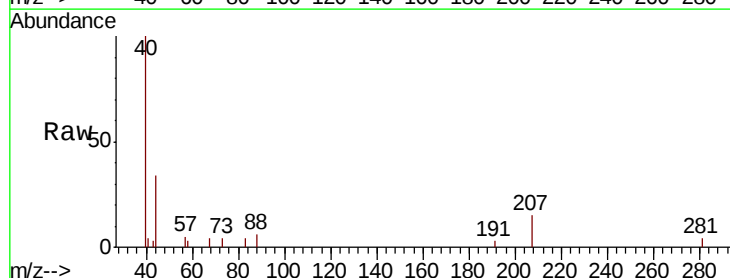
Tgt Ion: 88 Resp: 162

Ion Ratio Lower Upper

88 100

43 117.9 29.8 44.8#

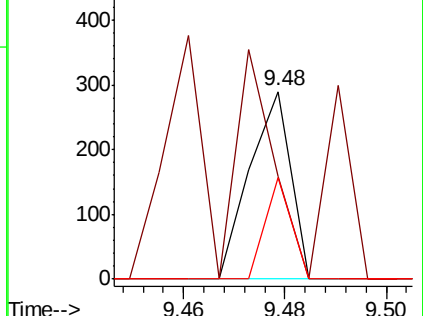
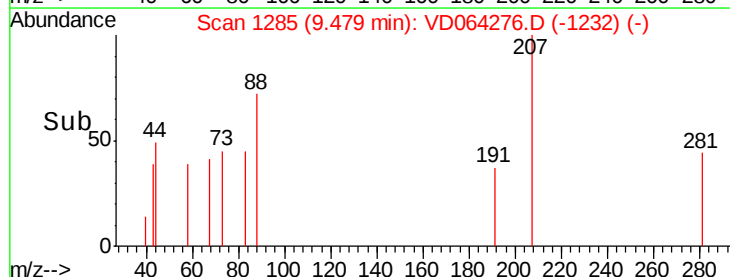
58 34.0 58.1 87.1#

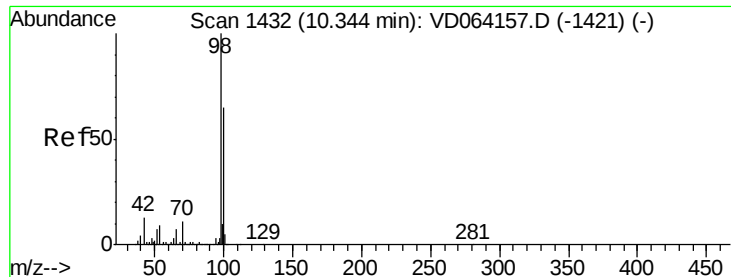


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

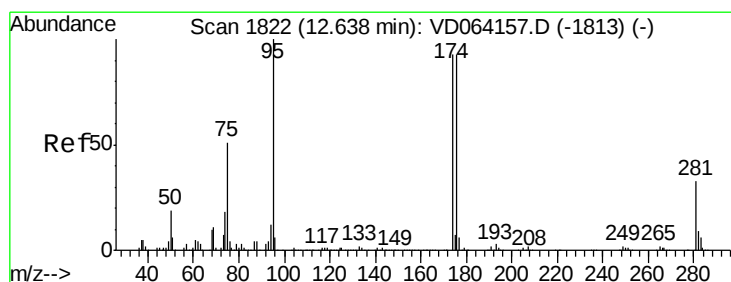
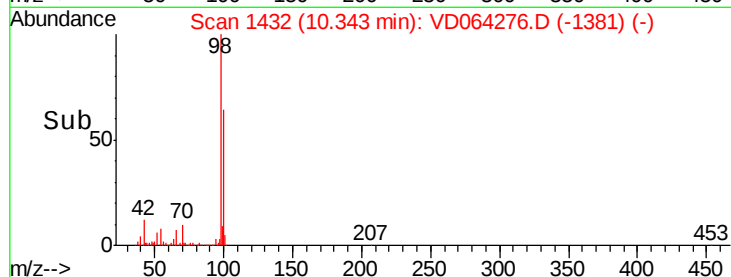
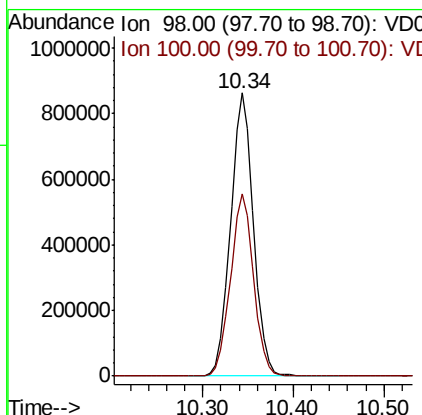
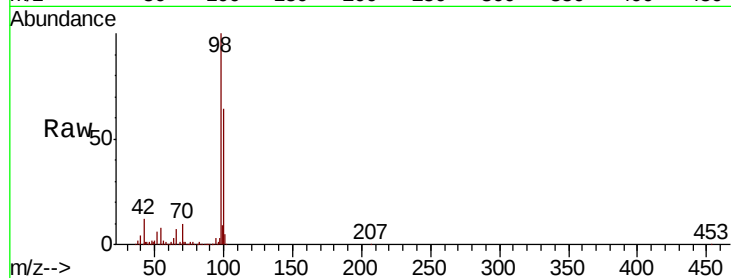




#50  
Toluene-d8  
Concen: 52.275 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD064276.D  
Acq: 18 Nov 2019 20:48

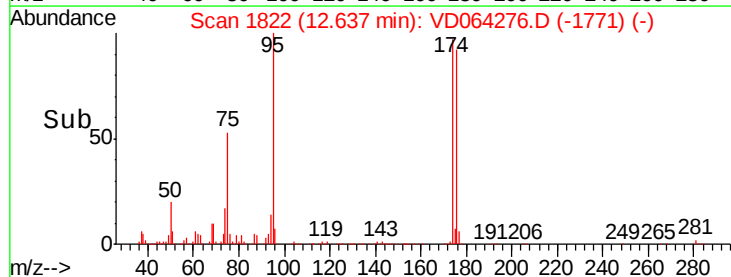
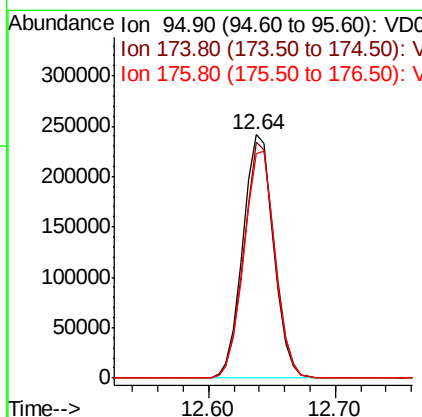
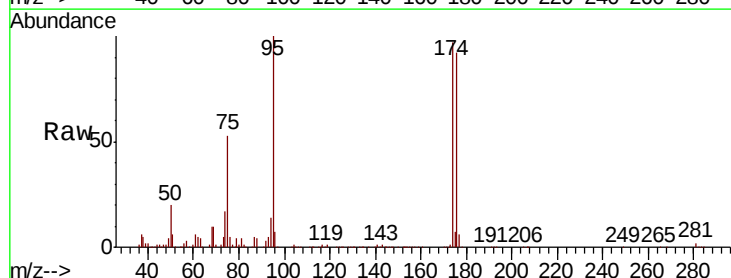
Instrument :  
MSVOA\_D  
ClientSampleId :

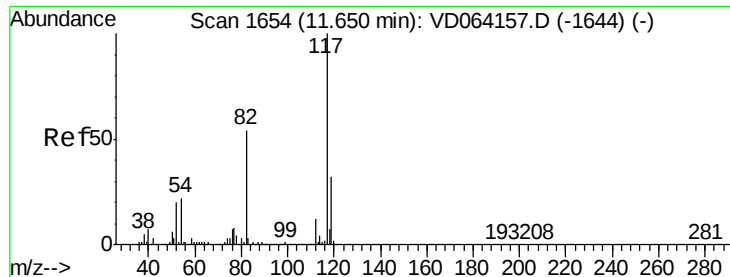
Tot Ion: 98 Resp: 1516103  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 40.664 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD064276.D  
Acq: 18 Nov 2019 20:48

Tgt Ion: 95 Resp: 408420  
Ion Ratio Lower Upper  
95 100  
174 96.6 0.0 183.6  
176 94.1 0.0 180.2

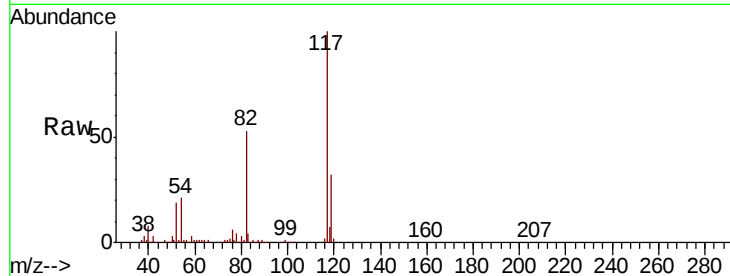




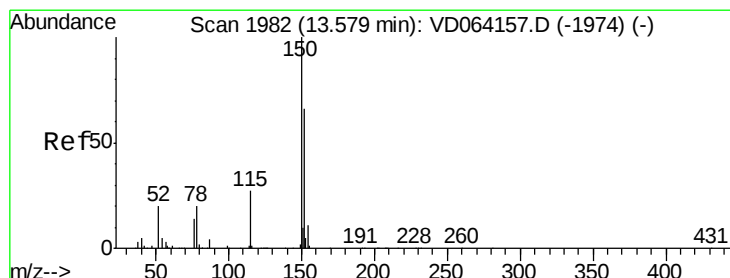
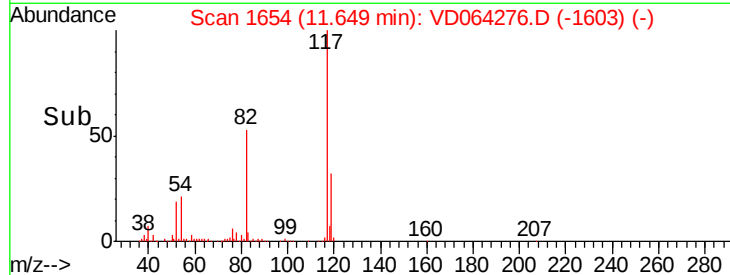
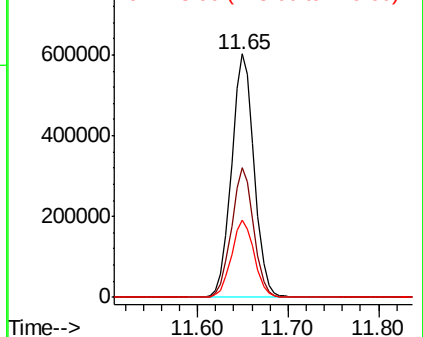
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD064276.D  
Acq: 18 Nov 2019 20:48

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:117 Resp: 1042172  
Ion Ratio Lower Upper  
117 100  
82 53.0 42.8 64.2  
119 31.9 25.6 38.4

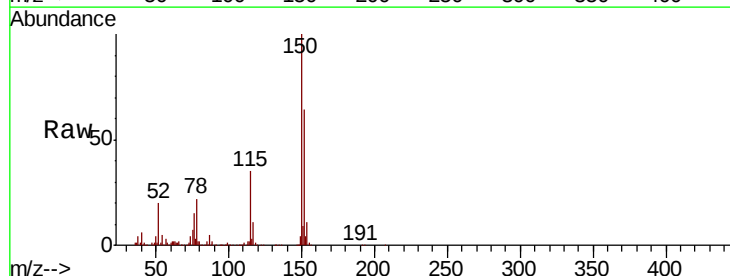


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

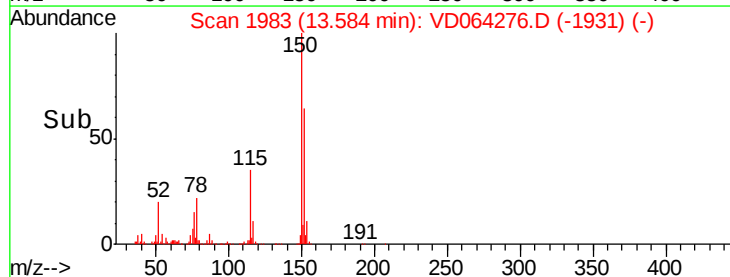
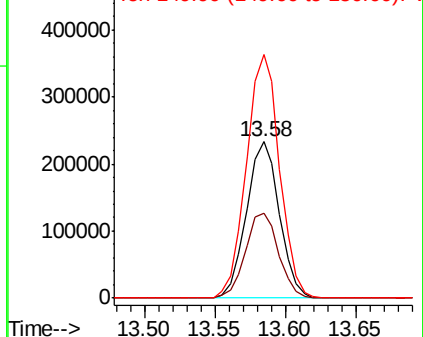


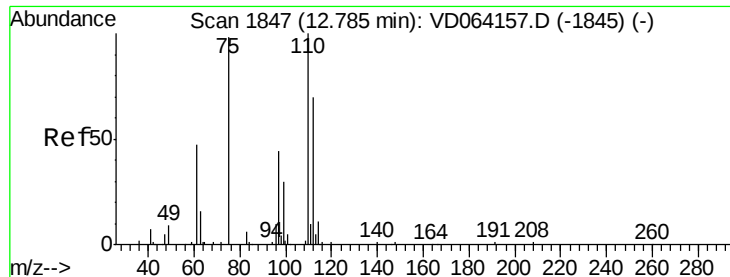
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD064276.D  
Acq: 18 Nov 2019 20:48

Tgt Ion:152 Resp: 382492  
Ion Ratio Lower Upper  
152 100  
115 54.7 27.4 82.2  
150 157.0 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: 68.512 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064276.D

Acq: 18 Nov 2019 20:48

Instrument :

MSVOA\_D

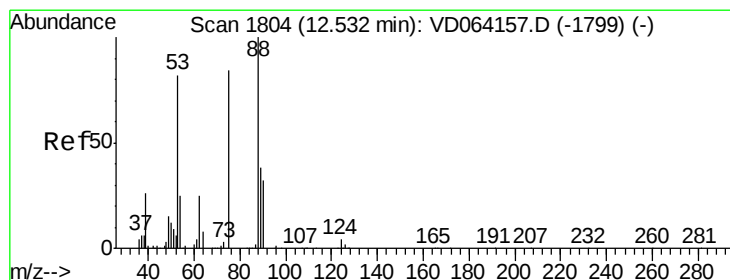
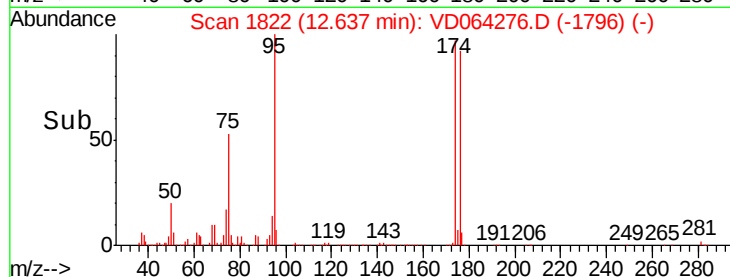
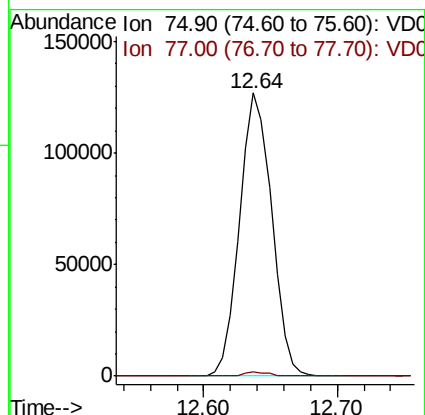
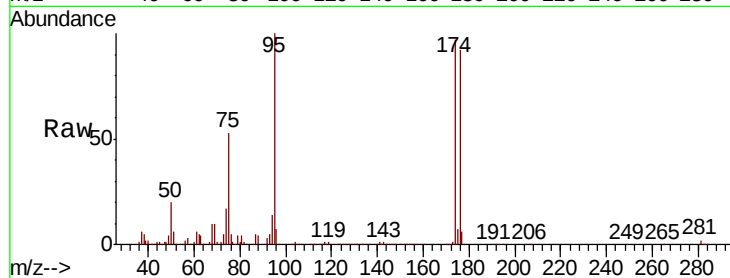
ClientSampleId :

Tot Ion: 75 Resp: 211074

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 136.091 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064276.D

Acq: 18 Nov 2019 20:48

Tgt Ion: 75 Resp: 211074

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

89 0.1 36.6 55.0#

