

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012521\  
 Data File : VD068167.D  
 Acq On : 25 Jan 2021 14:08  
 Operator : VA/SY  
 Sample : M1216-01  
 Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 26 00:08:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 570713   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.867  | 114  | 988329   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.650 | 117  | 865322   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152  | 380822   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.332  | 65    | 299234   | 54.81    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 109.62% |
| 35) Dibromofluoromethane    | 7.920  | 113   | 285636   | 52.28    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 104.56% |
| 50) Toluene-d8              | 10.344 | 98    | 1214113  | 55.55    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 111.10% |
| 62) 4-Bromofluorobenzene    | 12.632 | 95    | 392477   | 49.87    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 99.74%  |

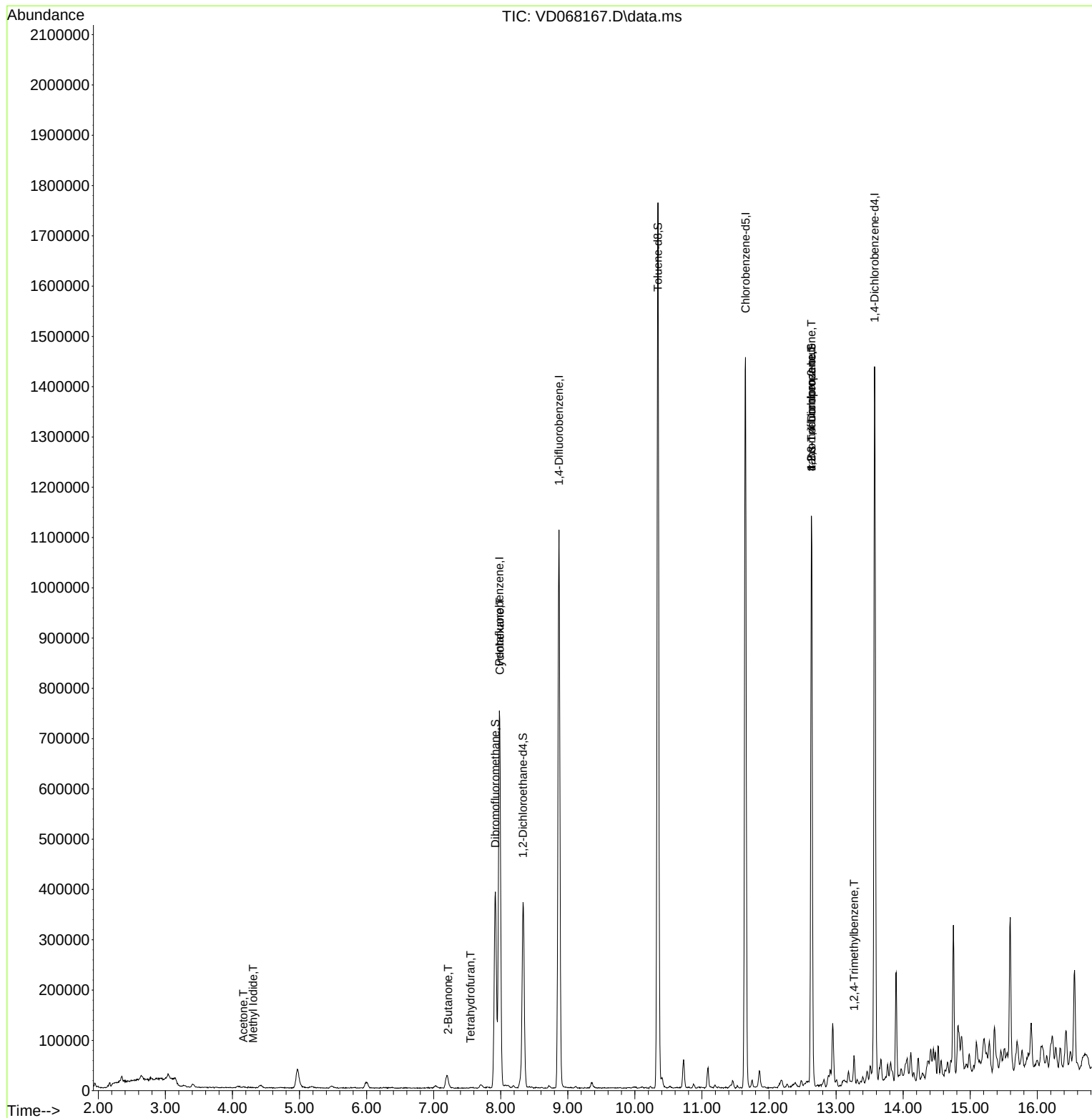
| Target Compounds              |        |     |        |             | Qvalue |
|-------------------------------|--------|-----|--------|-------------|--------|
| 10) Methyl Iodide             | 4.309  | 142 | 928    | 3.28 ug/l   | # 51   |
| 11) Tert butyl alcohol        | 5.209  | 59  | 3086   | Below Cal   | # 80   |
| 16) Acetone                   | 4.162  | 43  | 4086   | 4.19 ug/l   | # 88   |
| 25) 2-Butanone                | 7.214  | 43  | 2396   | 1.63 ug/l   | # 43   |
| 29) Tetrahydrofuran           | 7.550  | 42  | 1005   | 1.06 ug/l   | # 26   |
| 31) Cyclohexane               | 7.985  | 56  | 16102  | 1.36 ug/l   | # 17   |
| 76) 1,2,3-Trichloropropane    | 12.632 | 75  | 198773 | 53.98 ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-b... | 12.632 | 75  | 198773 | 109.24 ug/l | # 13   |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105 | 32703  | 1.25 ug/l   | 99     |

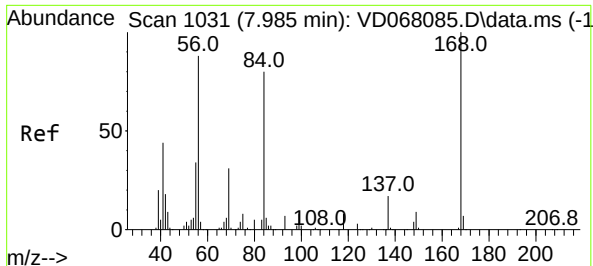
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :

Quant Time: Jan 26 00:08:23 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 19 13:19:08 2021  
Response via : Initial Calibration

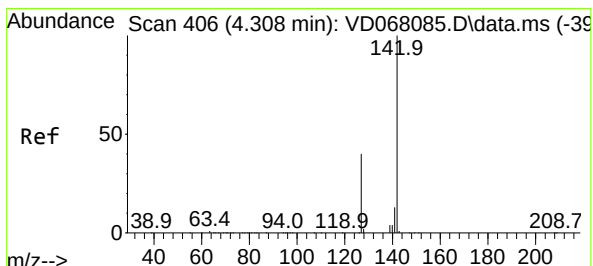
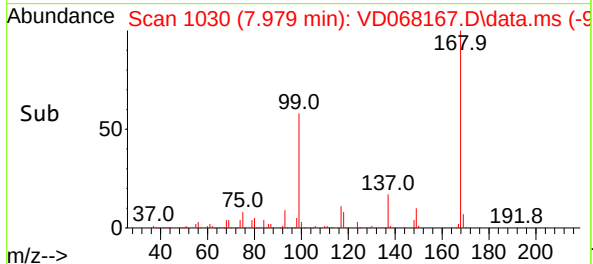
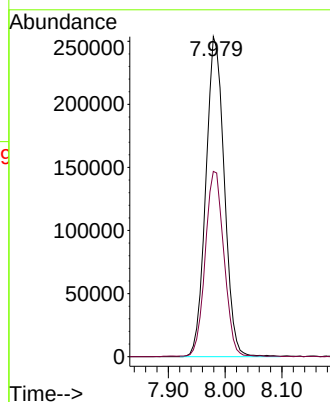
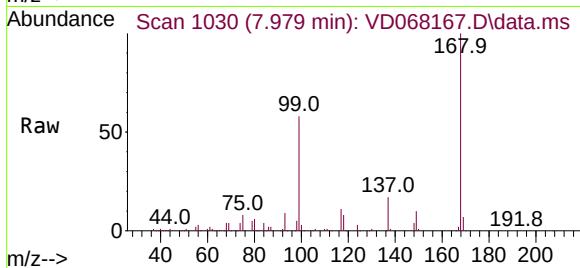




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

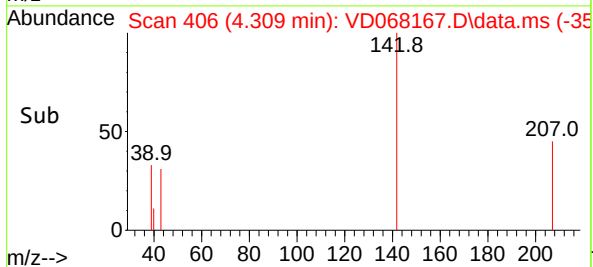
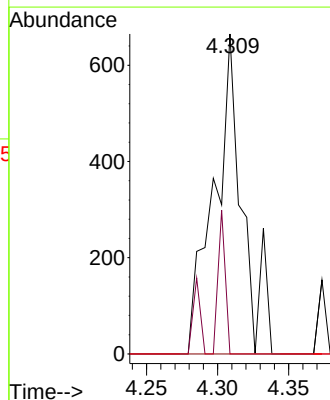
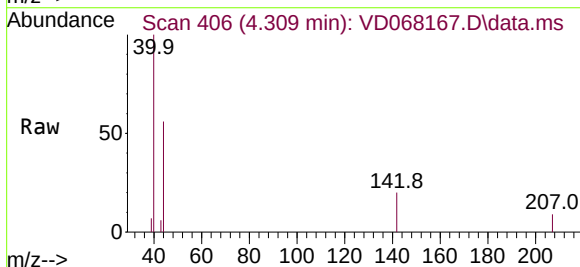
Instrument :  
MSVOA\_D  
ClientSampled :

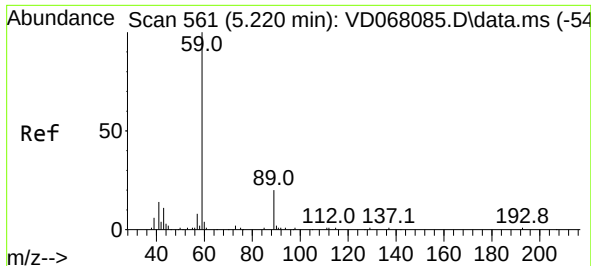
Tgt Ion:168 Resp: 570713  
Ion Ratio Lower Upper  
168 100  
99 57.8 43.5 65.3



#10  
Methyl Iodide  
Concen: 3.28 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.001 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion:142 Resp: 928  
Ion Ratio Lower Upper  
142 100  
127 11.4 37.9 56.9#  
141 0.0 11.5 17.3#

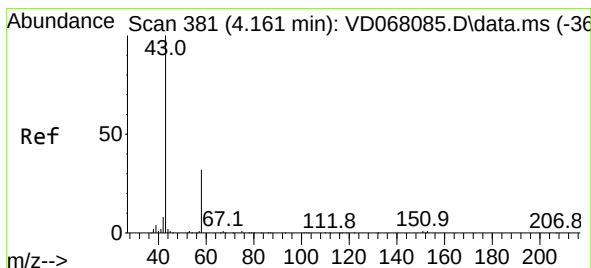
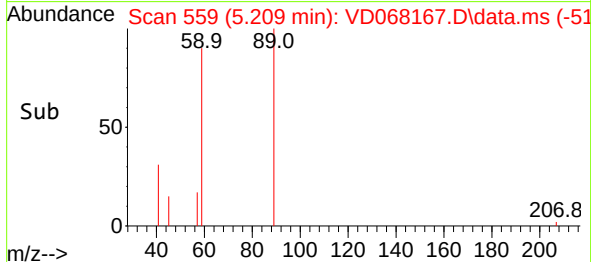
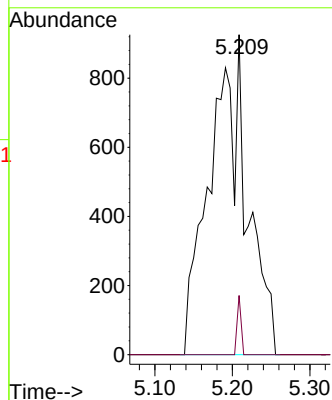
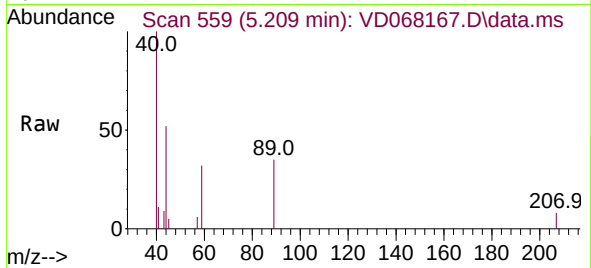




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.209 min Scan# 559  
Delta R.T. -0.011 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

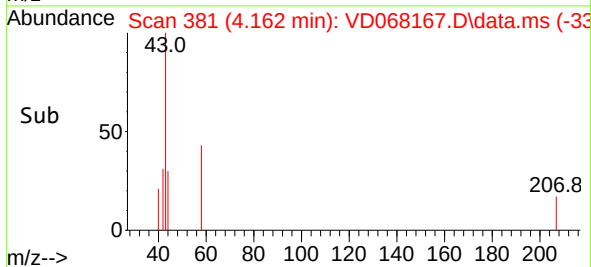
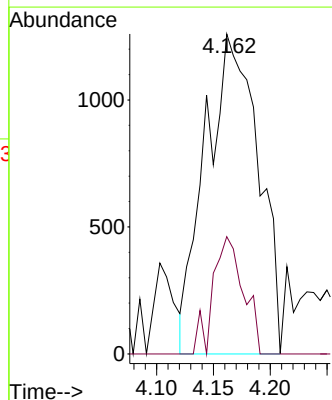
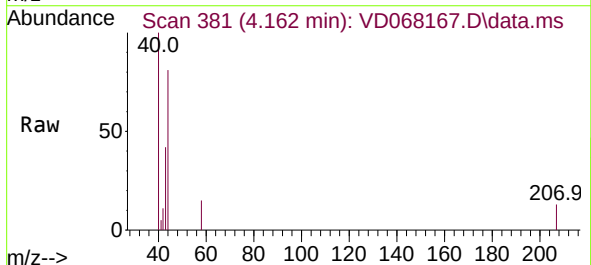
Instrument :  
MSVOA\_D  
ClientSampleId :

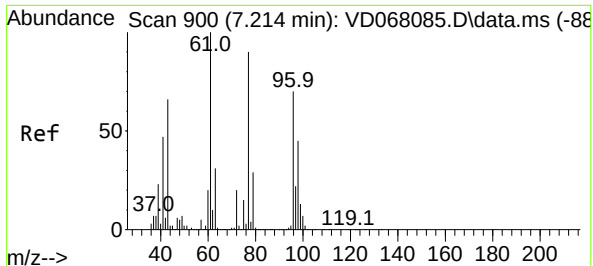
Tgt Ion: 59 Resp: 3086  
Ion Ratio Lower Upper  
59 100  
57 1.9 7.4 11.2#



#16  
Acetone  
Concen: 4.19 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.000 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion: 43 Resp: 4086  
Ion Ratio Lower Upper  
43 100  
58 36.7 24.2 36.4#

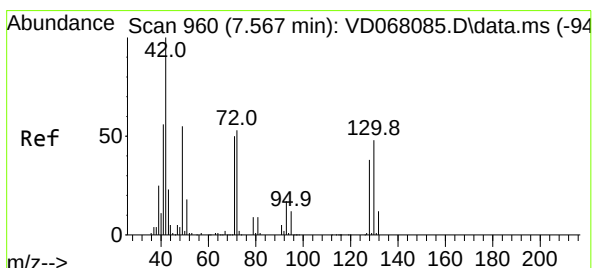
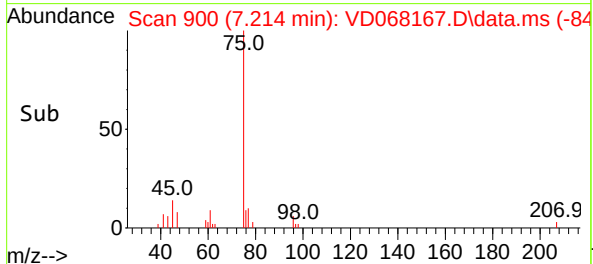
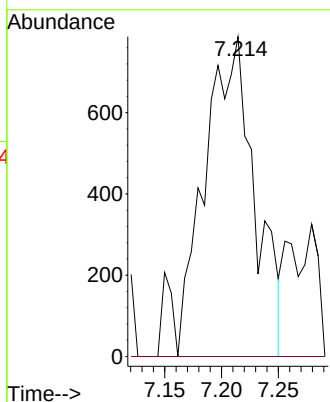
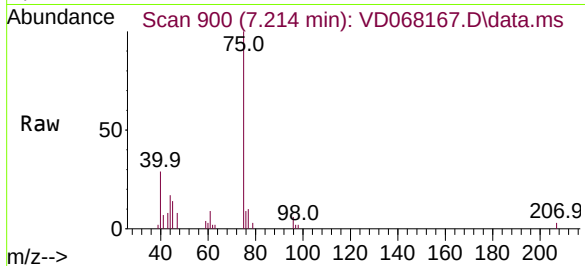




#25  
2-Butanone  
Concen: 1.63 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.000 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

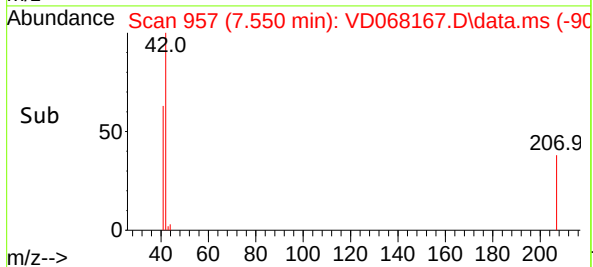
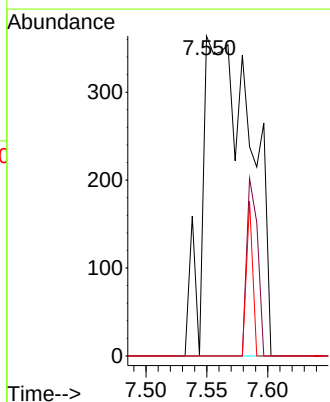
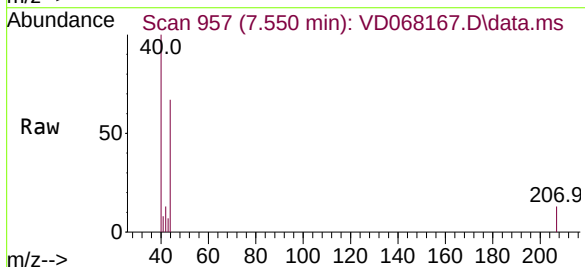
Instrument :  
MSVOA\_D  
ClientSampleId :

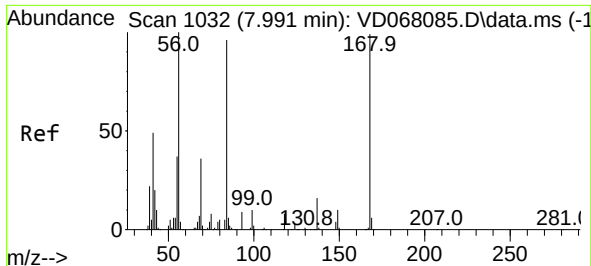
Tgt Ion: 43 Resp: 2396  
Ion Ratio Lower Upper  
43 100  
72 0.0 25.1 37.7#



#29  
Tetrahydrofuran  
Concen: 1.06 ug/l  
RT: 7.550 min Scan# 957  
Delta R.T. -0.017 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion: 42 Resp: 1005  
Ion Ratio Lower Upper  
42 100  
72 0.0 43.4 65.0#  
71 0.0 40.8 61.2#

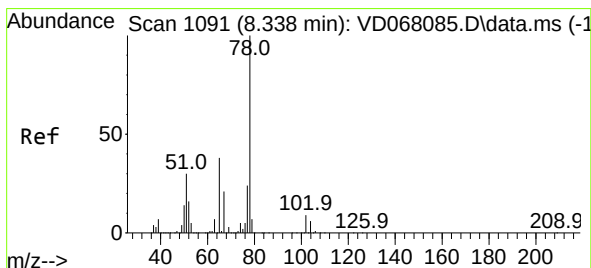
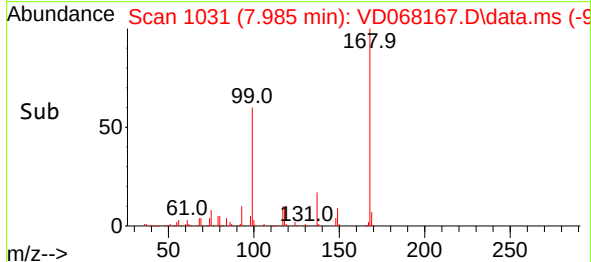
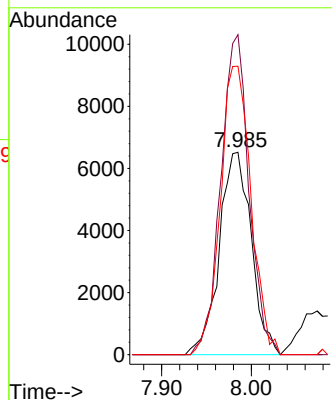
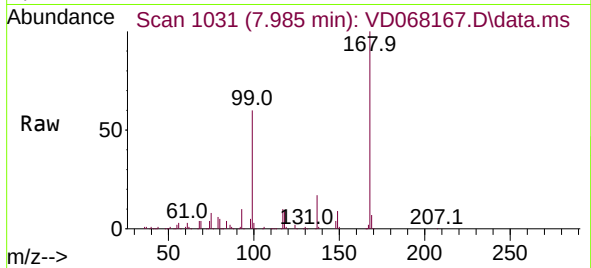




#31  
Cyclohexane  
Concen: 1.36 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.005 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

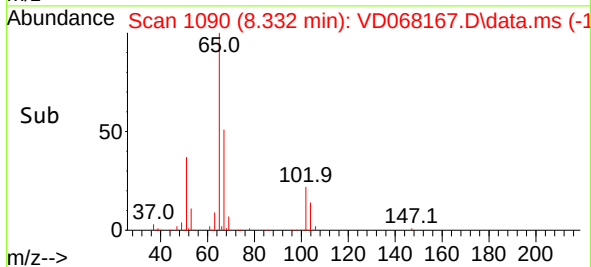
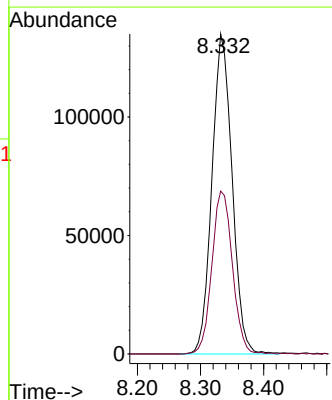
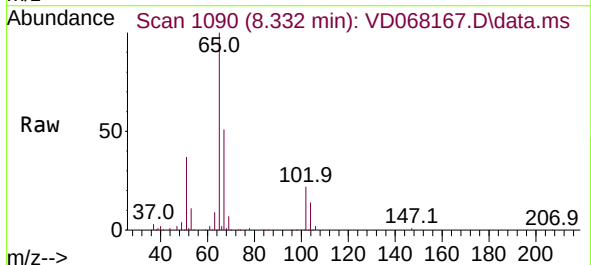
Instrument :  
MSVOA\_D  
ClientSampled :

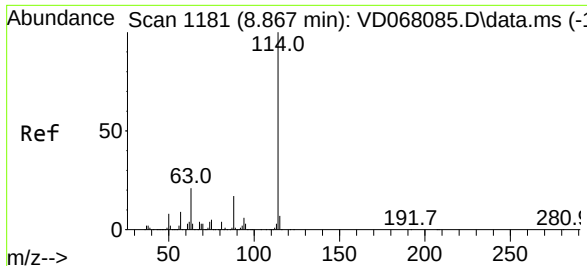
Tgt Ion: 56 Resp: 16102  
Ion Ratio Lower Upper  
56 100  
69 158.1 30.1 45.1#  
84 142.6 82.1 123.1#



#33  
1,2-Dichloroethane-d4  
Concen: 54.81 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. -0.006 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion: 65 Resp: 299234  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 105.0

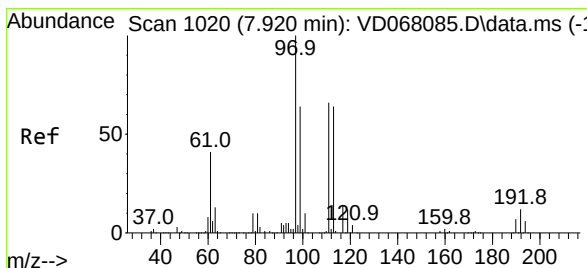
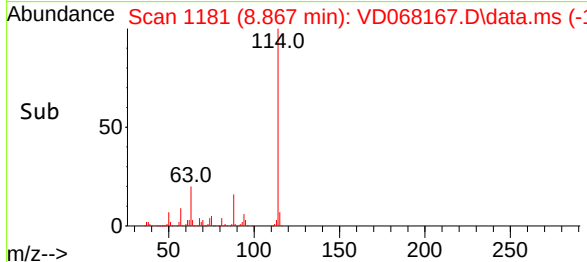
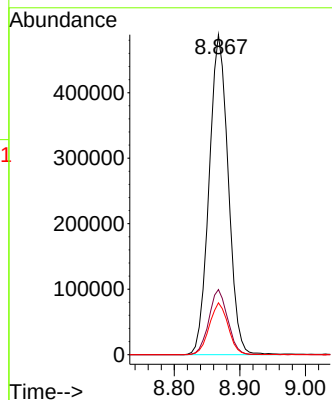
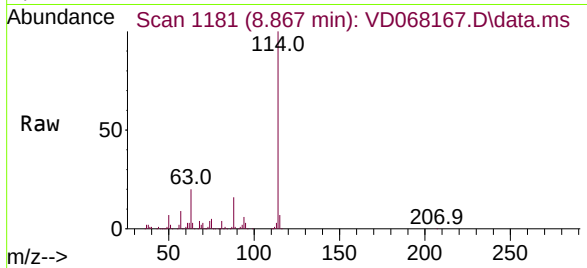




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

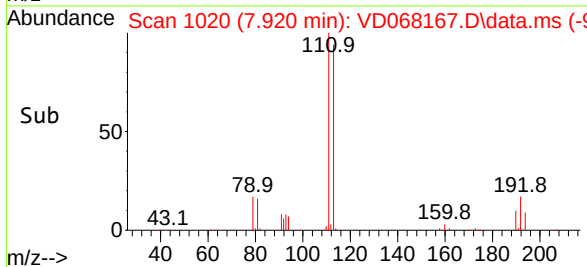
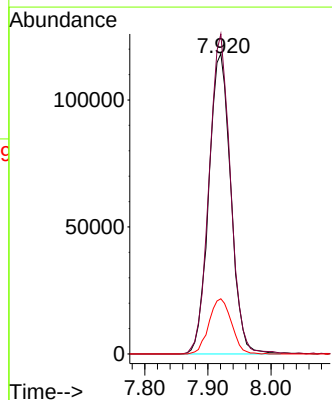
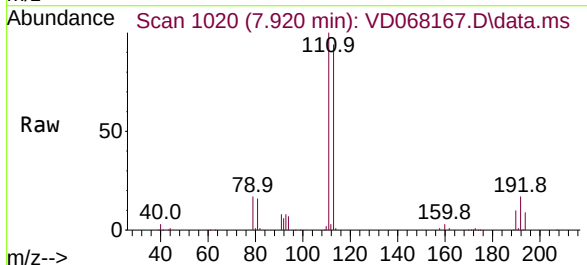
Instrument :  
MSVOA\_D  
ClientSampleId :

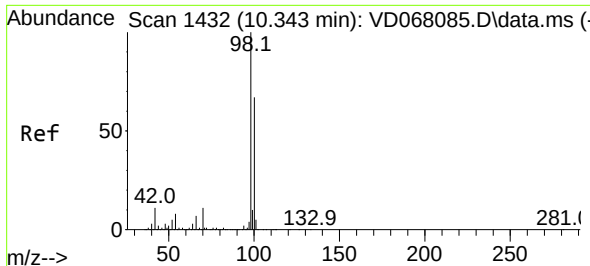
Tgt Ion:114 Resp: 988329  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 34.8  
88 16.2 0.0 31.6



#35  
Dibromofluoromethane  
Concen: 52.28 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. 0.000 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion:113 Resp: 285636  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.4 122.0  
192 18.8 16.1 24.1

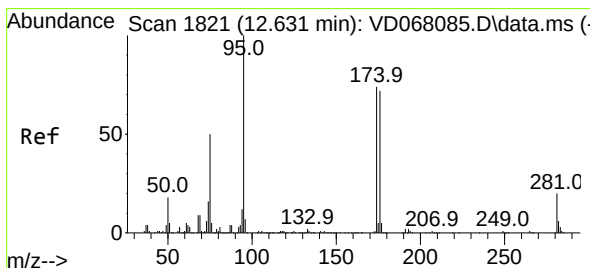
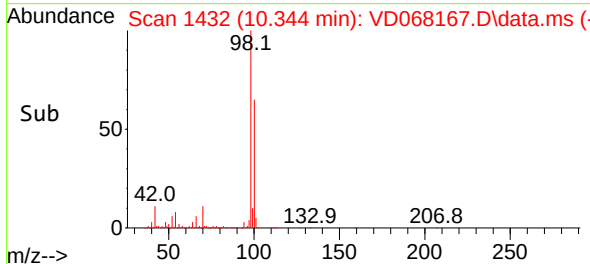
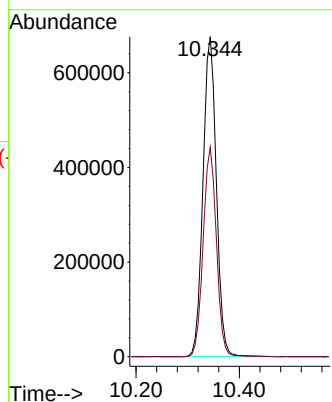
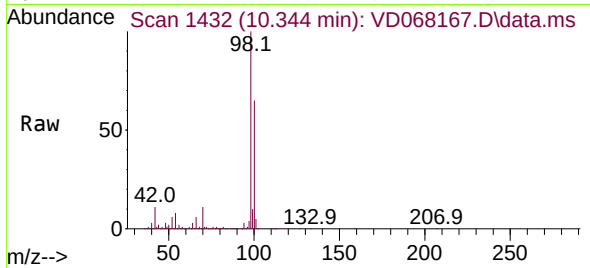




#50  
Toluene-d8  
Concen: 55.55 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

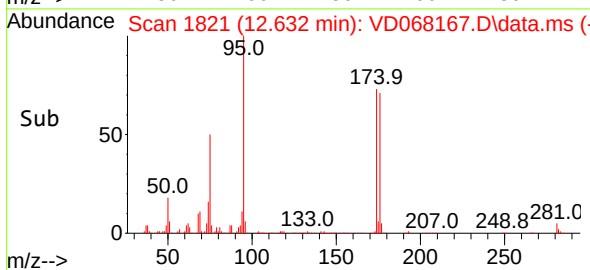
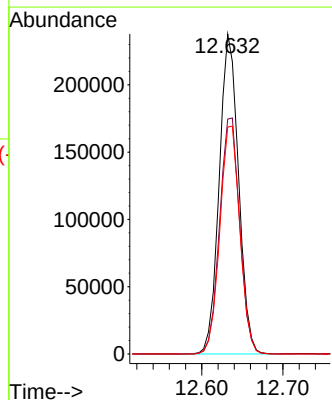
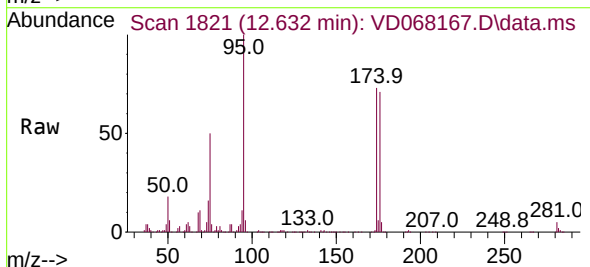
Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 98 Resp: 1214113  
Ion Ratio Lower Upper  
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100 65.0 53.0 79.4

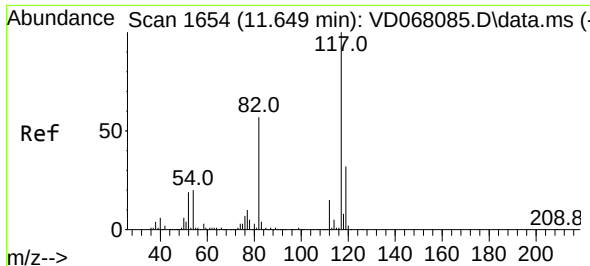


#62  
4-Bromofluorobenzene  
Concen: 49.87 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion: 95 Resp: 392477  
Ion Ratio Lower Upper  
95 100  
174 76.8 0.0 172.4  
176 73.8 0.0 168.4



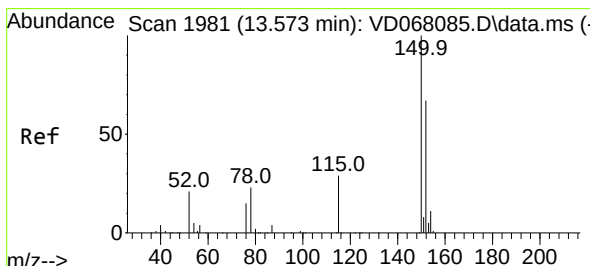
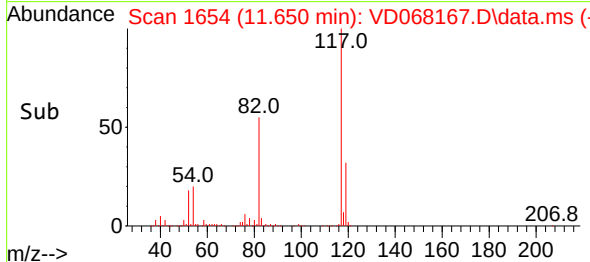
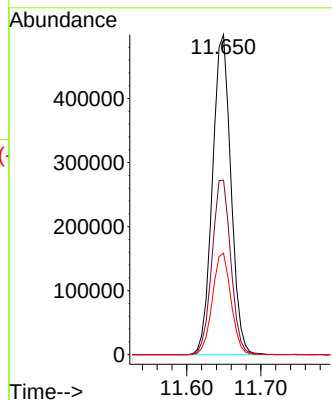
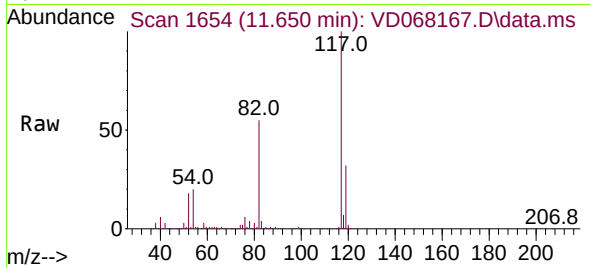




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.650 min Scan# 1654  
Delta R.T. 0.001 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

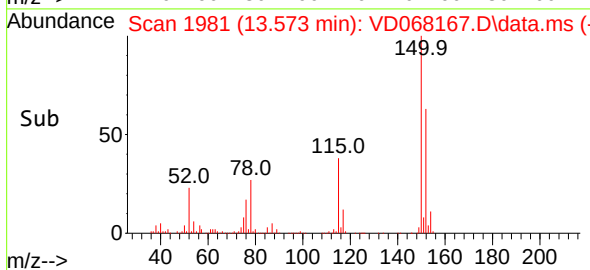
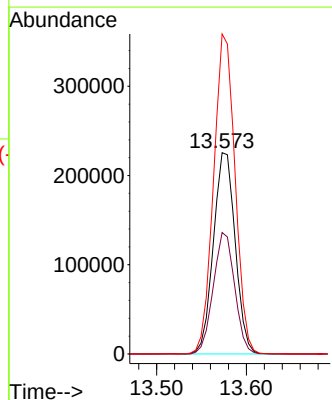
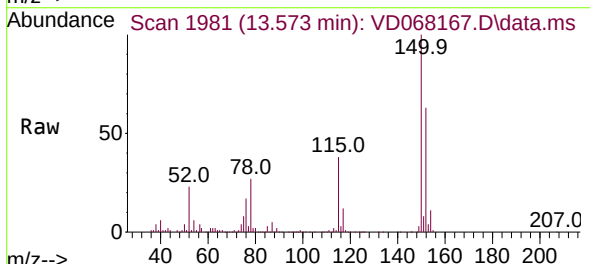
Instrument :  
MSVOA\_D  
ClientSampleId :

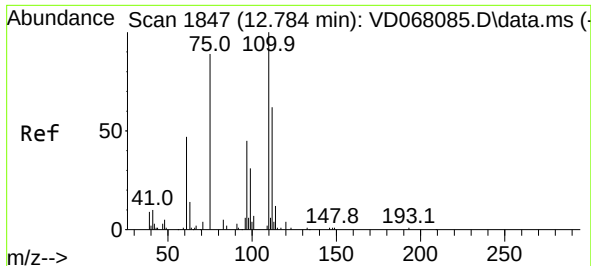
Tgt Ion:117 Resp: 865322  
Ion Ratio Lower Upper  
117 100  
82 54.6 41.4 62.0  
119 31.7 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.573 min Scan# 1981  
Delta R.T. 0.000 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion:152 Resp: 380822  
Ion Ratio Lower Upper  
152 100  
115 59.2 28.9 86.8  
150 156.6 0.0 344.4

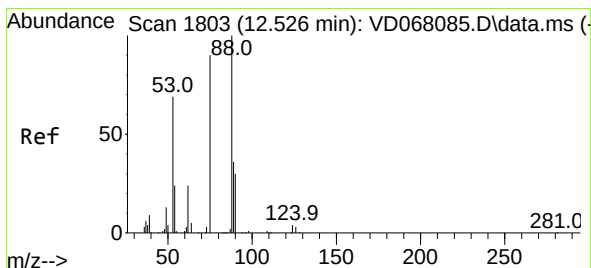
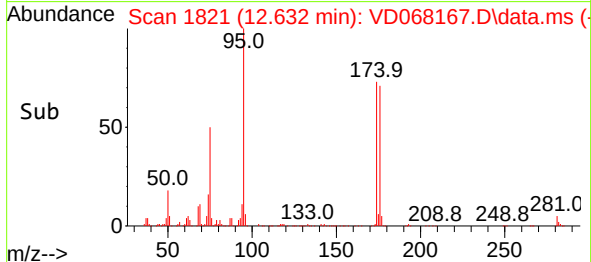
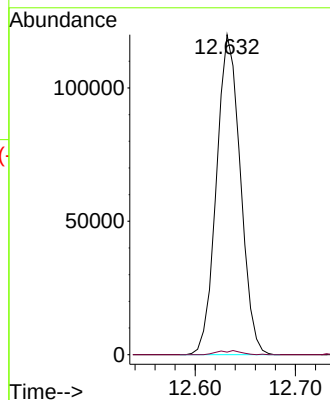
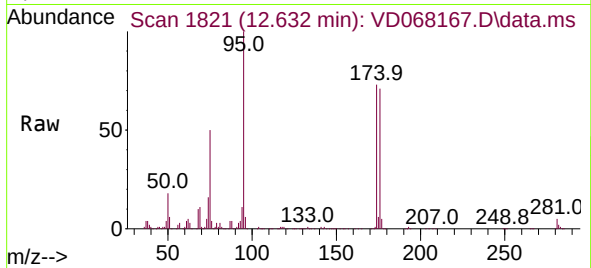




#76  
1,2,3-Trichloropropane  
Concen: 53.98 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.153 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

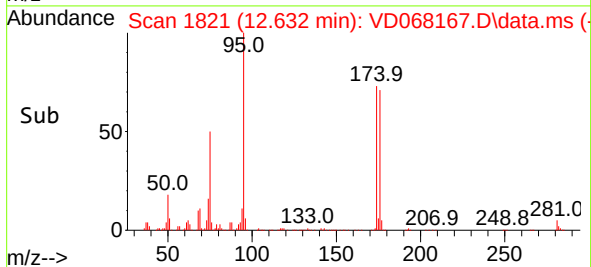
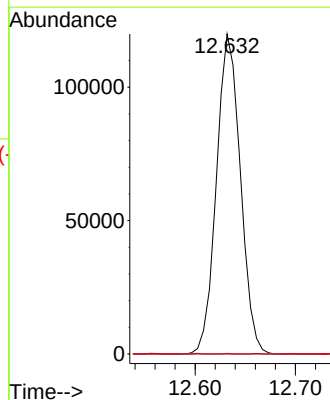
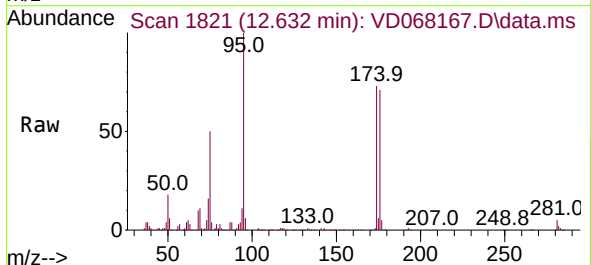
Instrument :  
MSVOA\_D  
ClientSampled :

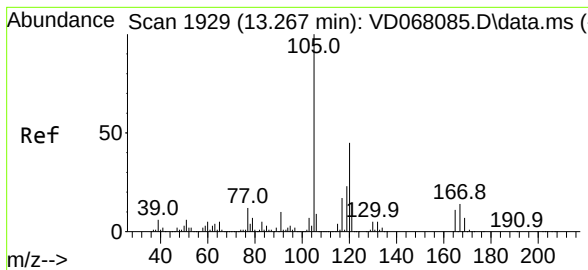
Tgt Ion: 75 Resp: 198773  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 109.24 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.106 min  
Lab File: VD068167.D  
Acq: 25 Jan 2021 14:08

Tgt Ion: 75 Resp: 198773  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.2 105.2#  
89 0.0 40.3 60.5#





#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.25 ug/l  
 RT: 13.267 min Scan# 1929  
 Delta R.T. 0.000 min  
 Lab File: VD068167.D  
 Acq: 25 Jan 2021 14:08

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tgt Ion:105 Resp: 32703  
 Ion Ratio Lower Upper  
 105 100  
 120 44.0 22.4 67.0

