

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040921\  
 Data File : VD068817.D  
 Acq On : 09 Apr 2021 17:43  
 Operator : VA/SY  
 Sample : M1979-03RE  
 Misc : 4.75G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S-3RE

Quant Time: Apr 10 00:44:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 2021  
 Response via : Initial Calibration

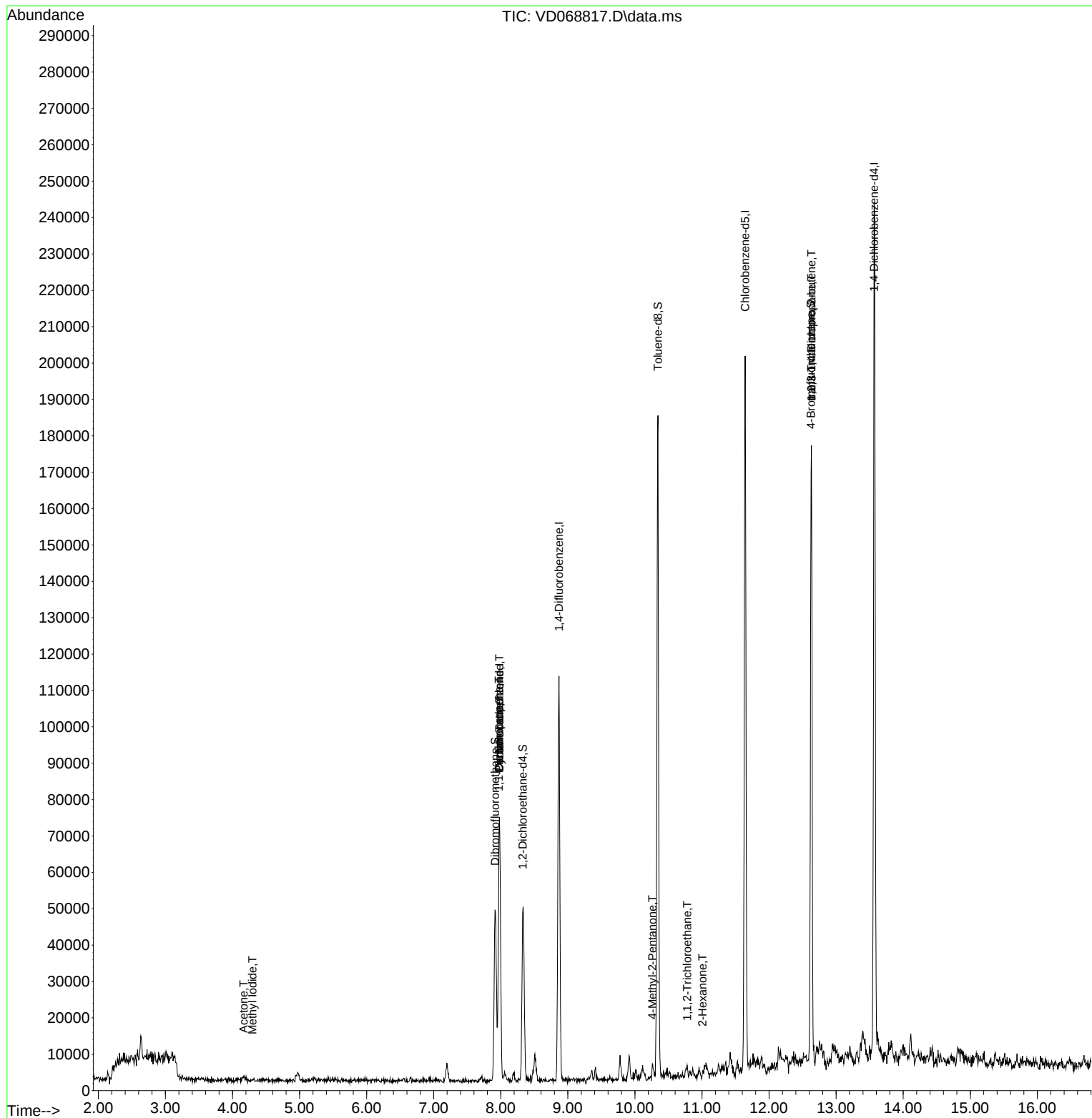
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 57777               | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 98305               | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.643         | 117  | 118929              | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 68378               | 50.00     | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 38809               | 63.56     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 127.12%  |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 35260               | 55.14     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 110.28%  |           |        |          |
| 50) Toluene-d8                | 10.343         | 98   | 125241              | 51.92     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 103.84%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 60124               | 75.05     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 150.10%# |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 10) Methyl Iodide             | 4.297          | 142  | 60                  | 2.33      | ug/l # | 41       |
| 11) Tert butyl alcohol        | 5.220          | 59   | 380                 | Below Cal | #      | 73       |
| 16) Acetone                   | 4.167          | 43   | 1610                | 19.04     | ug/l # | 79       |
| 20) Methylene Chloride        | 4.967          | 84   | 1751                | Below Cal | #      | 67       |
| 31) Cyclohexane               | 7.979          | 56   | 1363                | 1.34      | ug/l # | 73       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 4501                | 4.52      | ug/l # | 44       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 5534                | 5.62      | ug/l # | 12       |
| 51) 4-Methyl-2-Pentanone      | 10.261         | 43   | 943                 | 3.14      | ug/l # | 44       |
| 55) 1,1,2-Trichloroethane     | 10.779         | 97   | 788                 | 1.44      | ug/l # | 49       |
| 59) 2-Hexanone                | 11.008         | 43   | 279                 | 1.39      | ug/l # | 19       |
| 76) 1,2,3-Trichloropropane    | 12.631         | 75   | 28174               | 45.10     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.631         | 75   | 28174               | 104.67    | ug/l # | 17       |
| -----                         |                |      |                     |           |        |          |

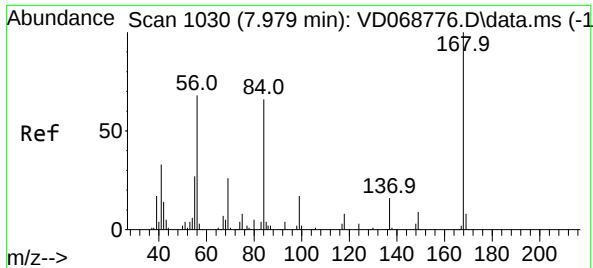
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040921\  
Data File : VD068817.D  
Acq On : 09 Apr 2021 17:43  
Operator : VA/SY  
Sample : M1979-03RE  
Misc : 4.75G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
S-3RE

Quant Time: Apr 10 00:44:52 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 08 03:50:31 2021  
Response via : Initial Calibration

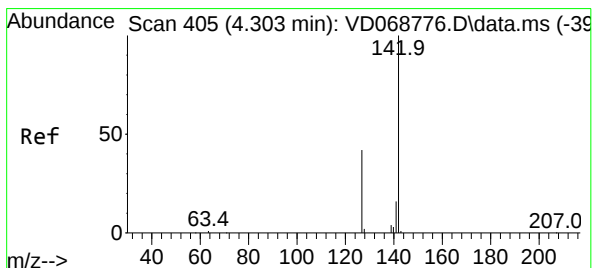
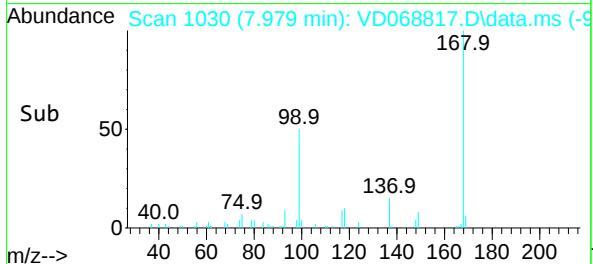
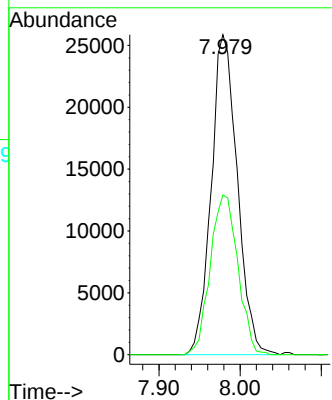
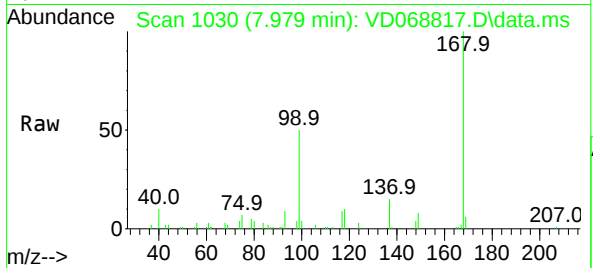




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

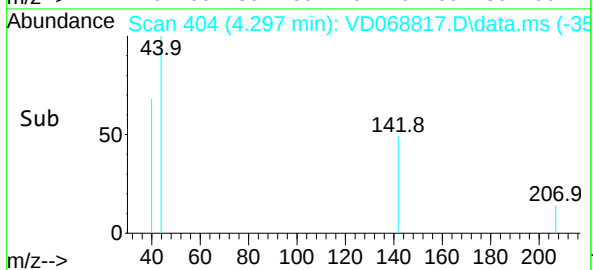
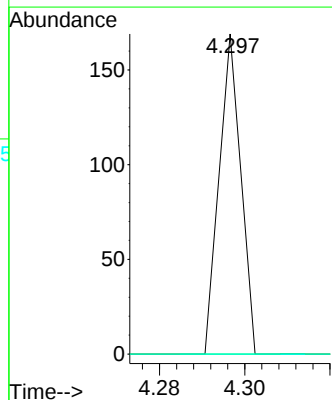
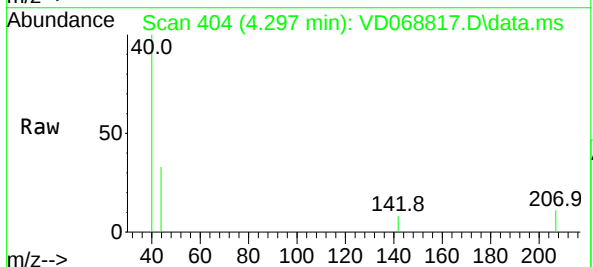
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-3RE

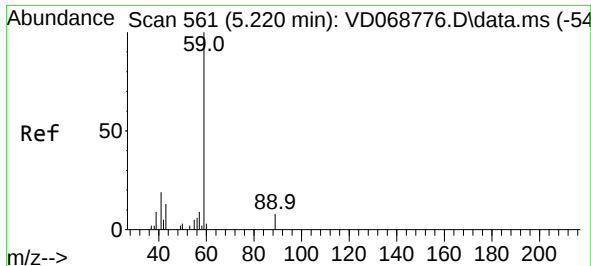
Tgt Ion:168 Resp: 57777  
Ion Ratio Lower Upper  
168 100  
99 49.9 46.2 69.2



#10  
Methyl Iodide  
Concen: 2.33 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.006 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion:142 Resp: 60  
Ion Ratio Lower Upper  
142 100  
127 0.0 34.7 52.1#  
141 0.0 11.0 16.4#

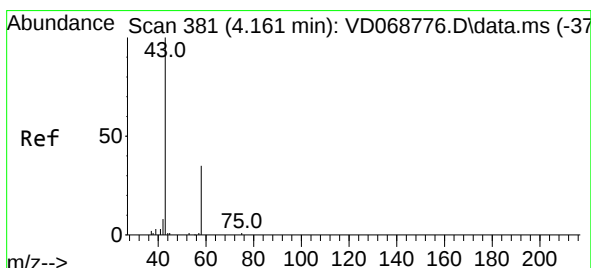
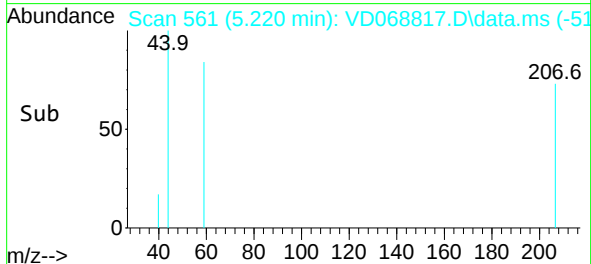
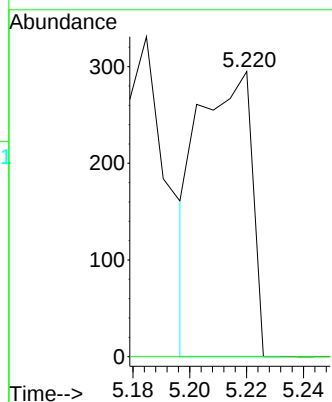
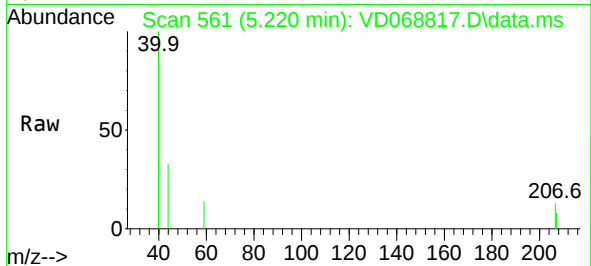




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.220 min Scan# 561  
Delta R.T. 0.000 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

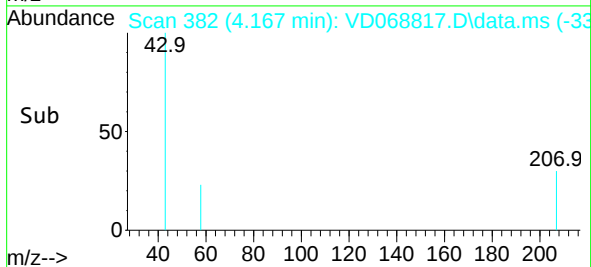
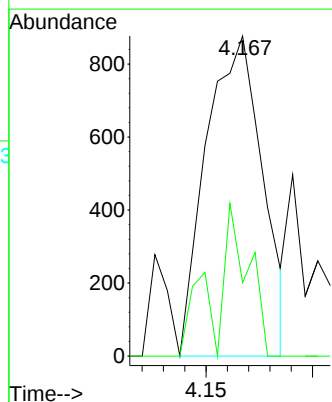
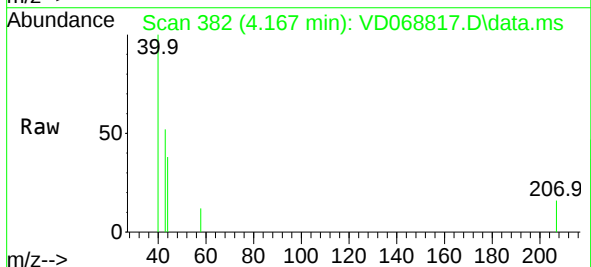
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-3RE

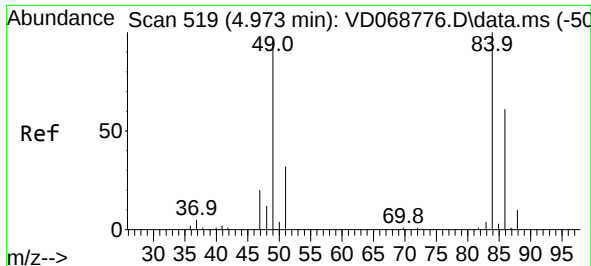
Tgt Ion: 59 Resp: 380  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#16  
Acetone  
Concen: 19.04 ug/l  
RT: 4.167 min Scan# 382  
Delta R.T. 0.006 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion: 43 Resp: 1610  
Ion Ratio Lower Upper  
43 100  
58 22.9 28.0 42.0#



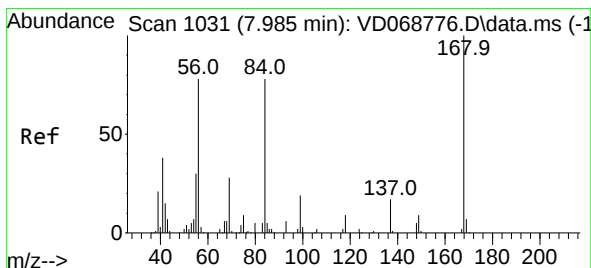
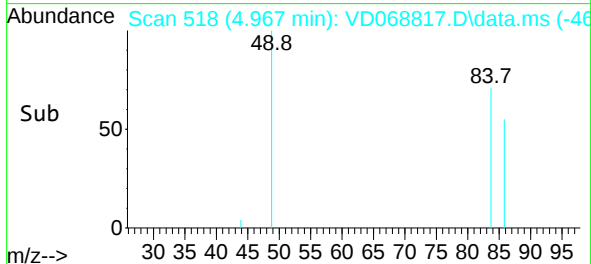
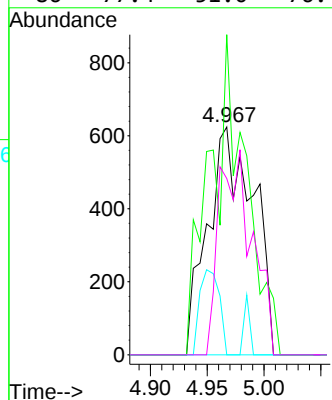
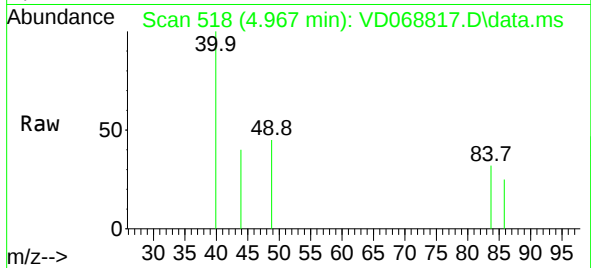


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.967 min Scan# 518  
Delta R.T. -0.006 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Instrument :  
MSVOA\_D  
ClientSampleId :  
S-3RE

Tgt Ion: 84 Resp: 1751

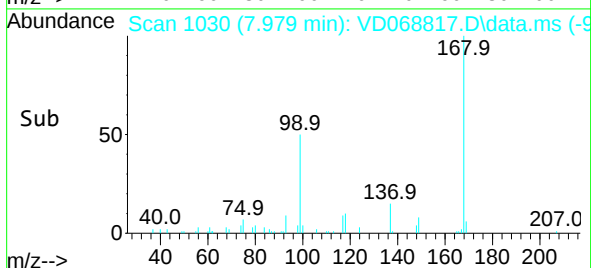
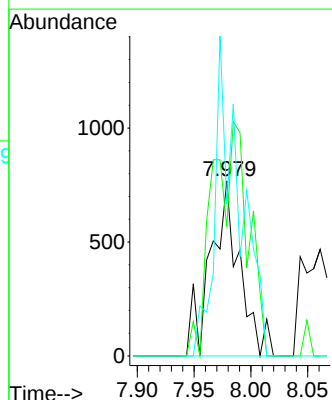
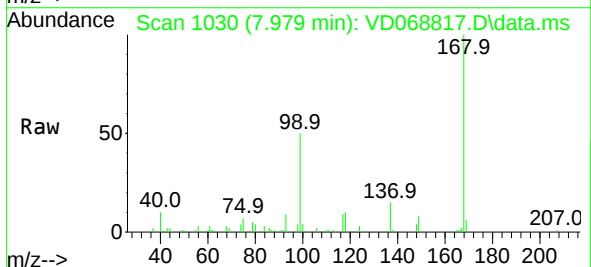
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 140.5 | 83.4  | 125.0# |
| 51  | 0.0   | 23.4  | 35.2#  |
| 86  | 77.4  | 51.0  | 76.4#  |

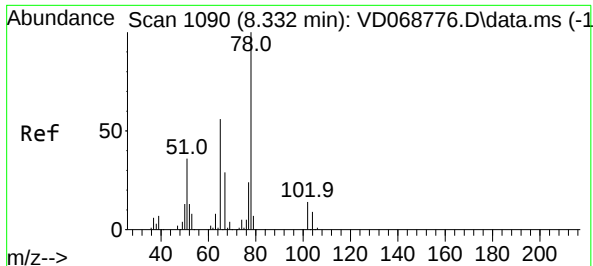


#31  
Cyclohexane  
Concen: 1.34 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion: 56 Resp: 1363

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 73.8  | 30.0  | 45.0# |
| 84  | 87.0  | 82.0  | 123.0 |

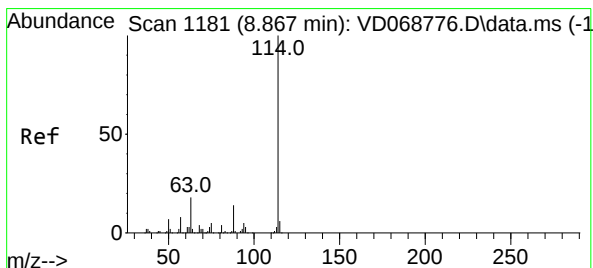
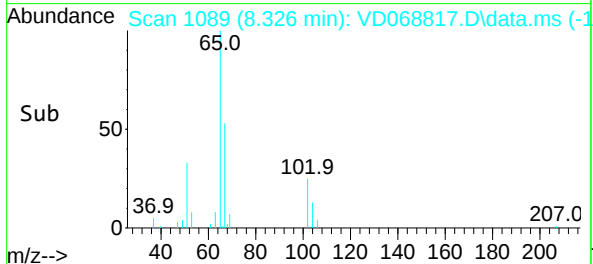
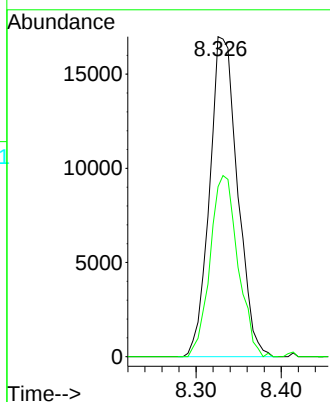
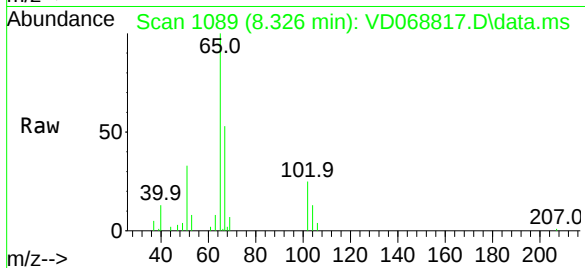




#33  
1,2-Dichloroethane-d4  
Concen: 63.56 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

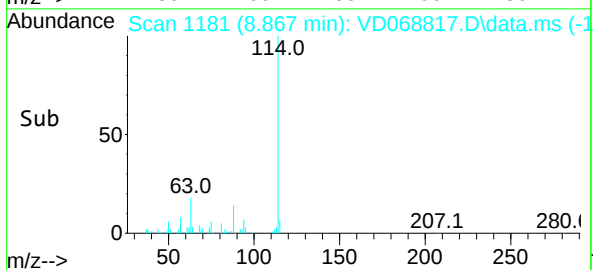
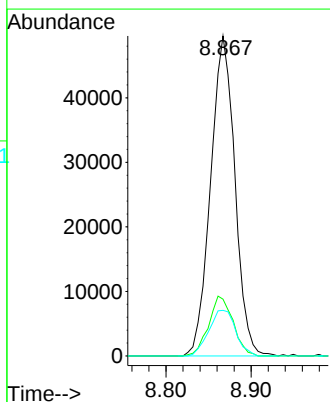
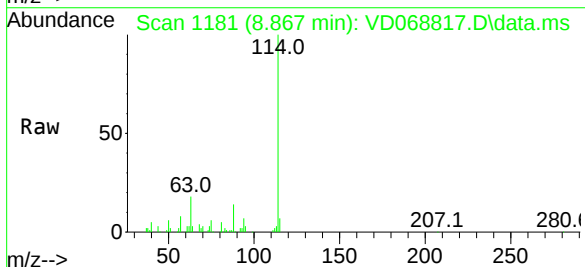
Instrument :  
MSVOA\_D  
ClientSampleId :  
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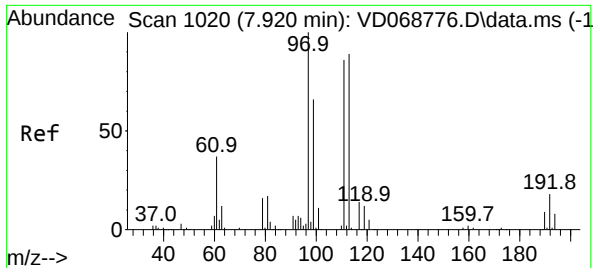
Tgt Ion: 65 Resp: 38809  
Ion Ratio Lower Upper  
65 100  
67 56.4 0.0 106.0



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. -0.000 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion: 114 Resp: 98305  
Ion Ratio Lower Upper  
114 100  
63 17.7 0.0 38.2  
88 14.2 0.0 29.4





#35

Dibromofluoromethane

Concen: 55.14 ug/l

RT: 7.914 min Scan# 1019

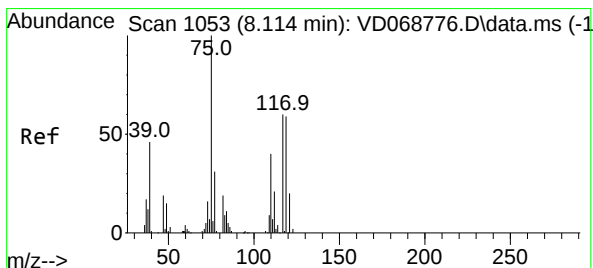
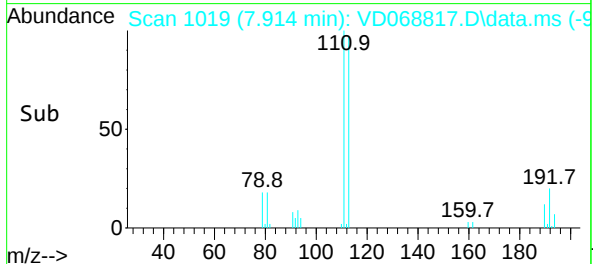
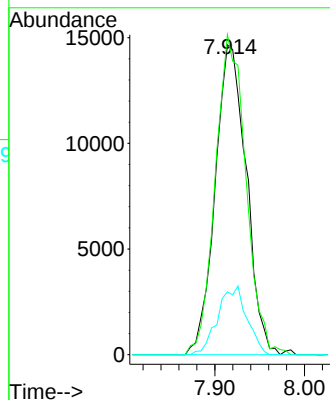
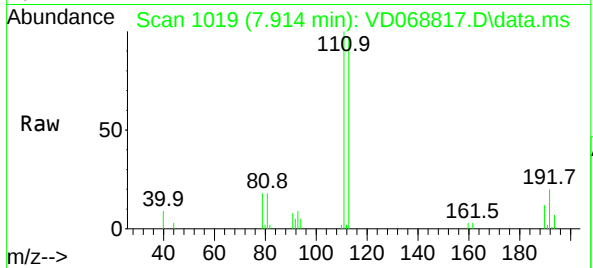
Delta R.T. -0.006 min

Lab File: VD068817.D

Acq: 09 Apr 2021 17:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 35260 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.5 | 82.5  | 123.7 |
| 192      | 20.7  | 15.1  | 22.7  |

Instrument :  
MSVOA\_D  
ClientSampleId :  
S-3RE



#36

1,1-Dichloropropene

Concen: 4.52 ug/l

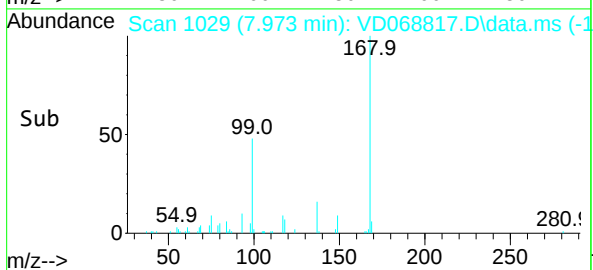
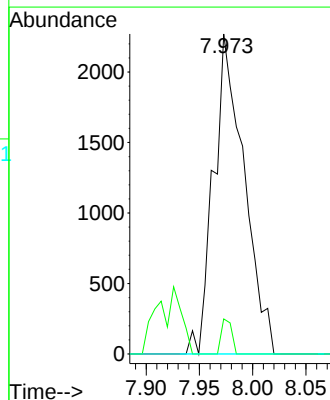
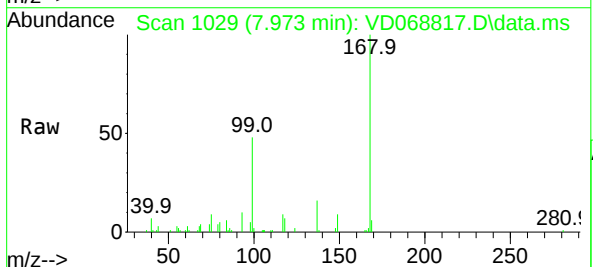
RT: 7.973 min Scan# 1029

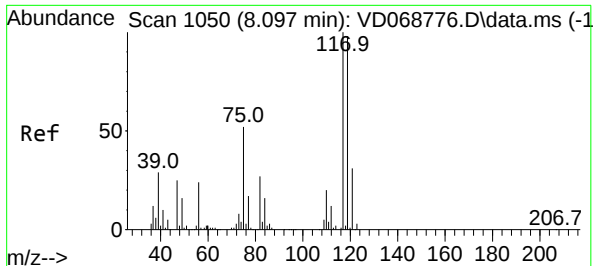
Delta R.T. -0.141 min

Lab File: VD068817.D

Acq: 09 Apr 2021 17:43

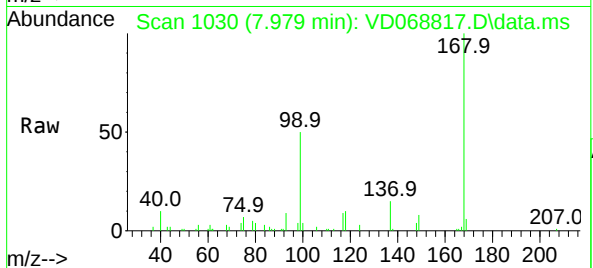
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 4501  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 3.7   | 18.1  | 54.4# |
| 77       | 0.0   | 24.7  | 37.1# |



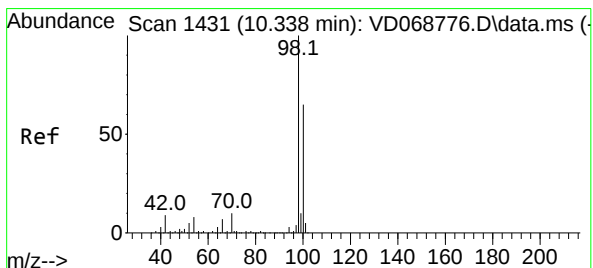
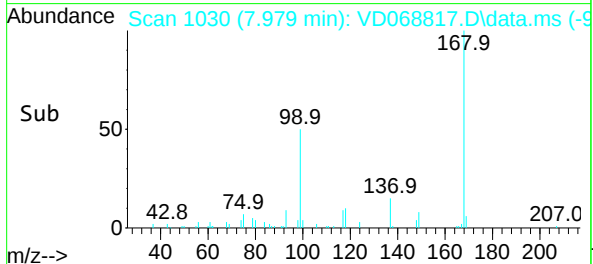
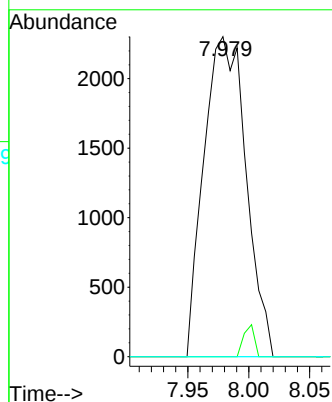


#38  
Carbon Tetrachloride  
Concen: 5.62 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Instrument :  
MSVOA\_D  
ClientSampled :  
S-3RE

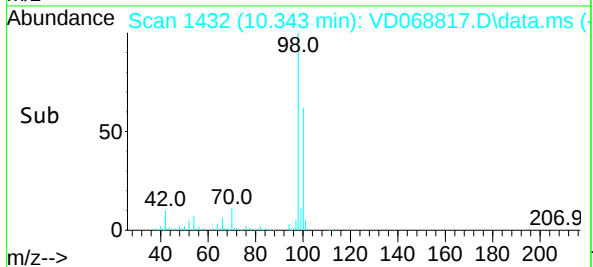
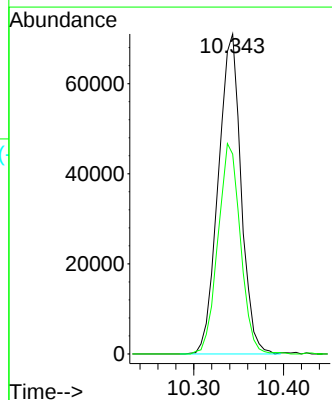
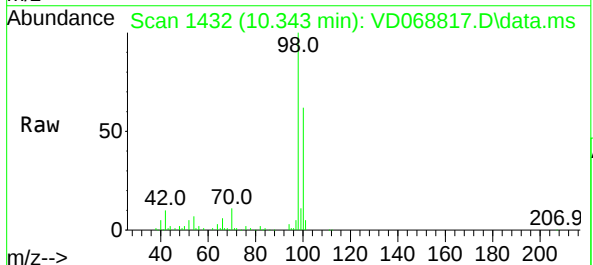


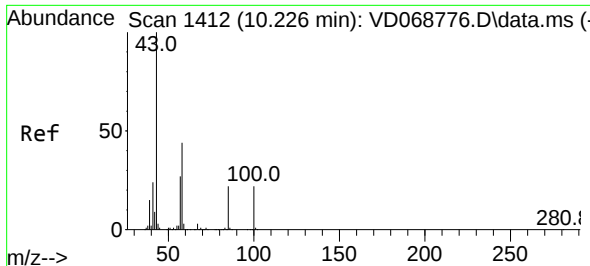
Tgt Ion:117 Resp: 5534  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.6 115.0#  
121 0.0 26.1 39.1#



#50  
Toluene-d8  
Concen: 51.92 ug/l  
RT: 10.343 min Scan# 1432  
Delta R.T. 0.005 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion: 98 Resp: 125241  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.8 77.6

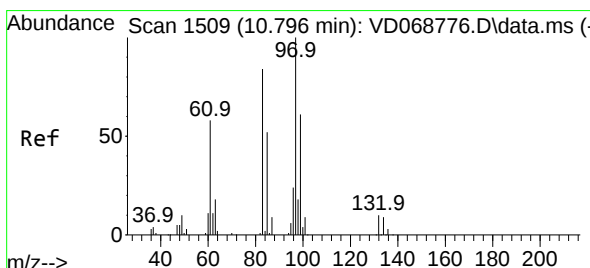
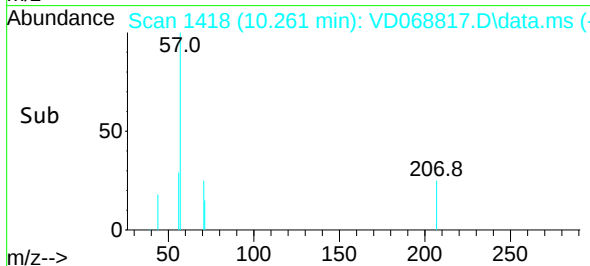
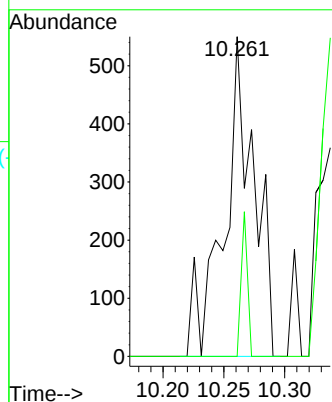
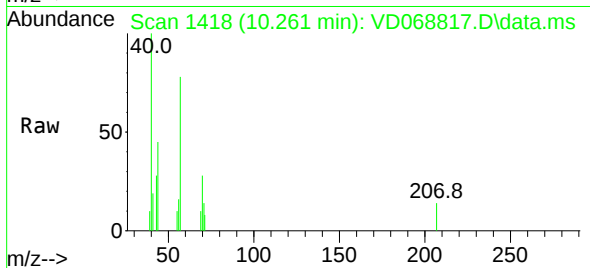




#51  
4-Methyl-2-Pentanone  
Concen: 3.14 ug/l  
RT: 10.261 min Scan# 1418  
Delta R.T. 0.035 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

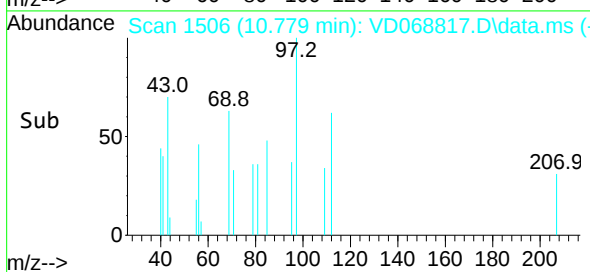
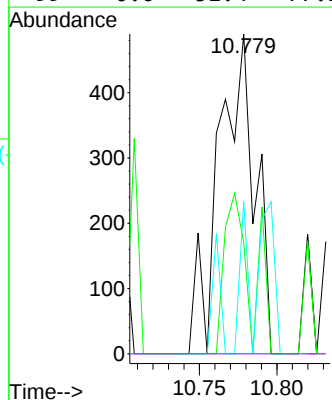
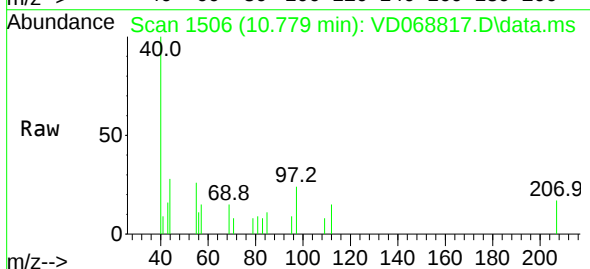
Instrument :  
MSVOA\_D  
ClientSampled :  
S-3RE

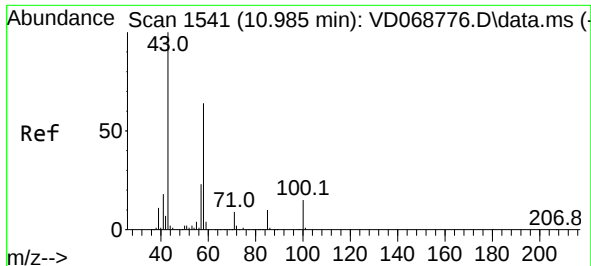
Tgt Ion: 43 Resp: 943  
Ion Ratio Lower Upper  
43 100  
58 9.3 37.3 55.9#



#55  
1,1,2-Trichloroethane  
Concen: 1.44 ug/l  
RT: 10.779 min Scan# 1506  
Delta R.T. -0.017 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion: 97 Resp: 788  
Ion Ratio Lower Upper  
97 100  
83 34.7 65.7 98.5#  
85 47.6 44.3 66.5  
99 0.0 51.4 77.2#

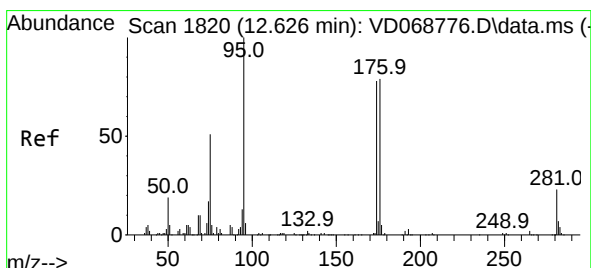
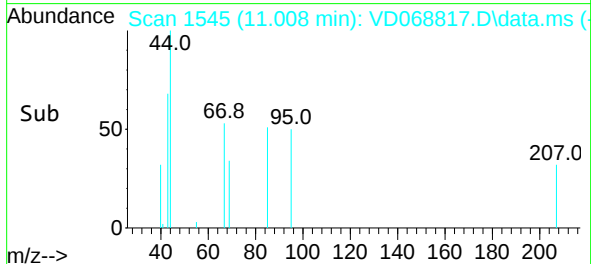
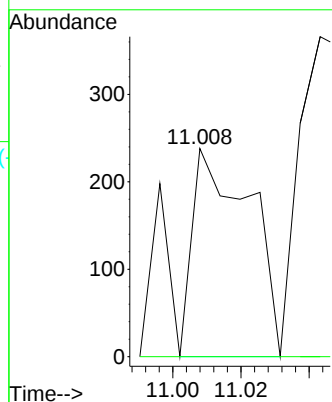
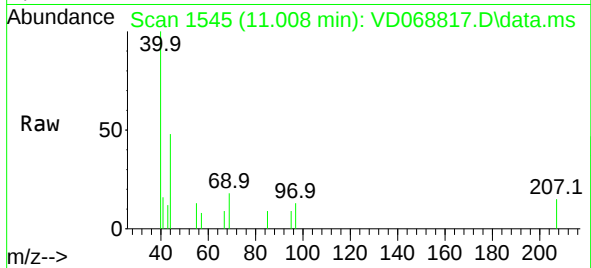




#59  
2-Hexanone  
Concen: 1.39 ug/l  
RT: 11.008 min Scan# 1545  
Delta R.T. 0.023 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

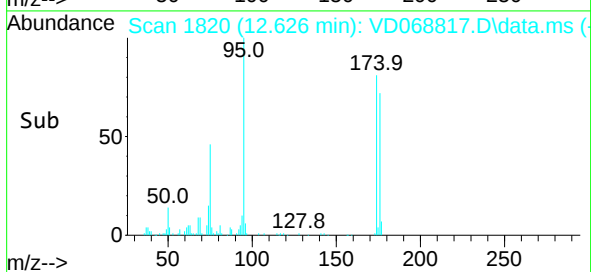
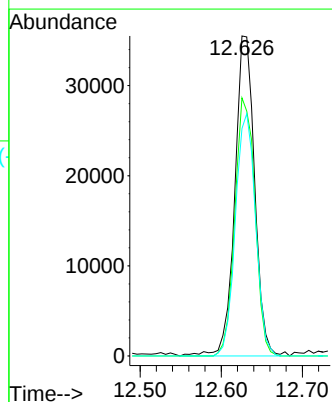
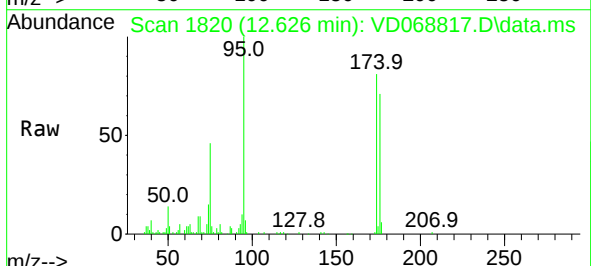
Instrument :  
MSVOA\_D  
ClientSampled :  
S-3RE

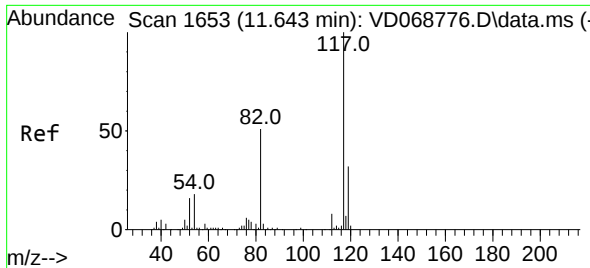
Tgt Ion: 43 Resp: 279  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.3 93.8#



#62  
4-Bromofluorobenzene  
Concen: 75.05 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion: 95 Resp: 60124  
Ion Ratio Lower Upper  
95 100  
174 81.4 0.0 168.0  
176 76.8 0.0 160.2

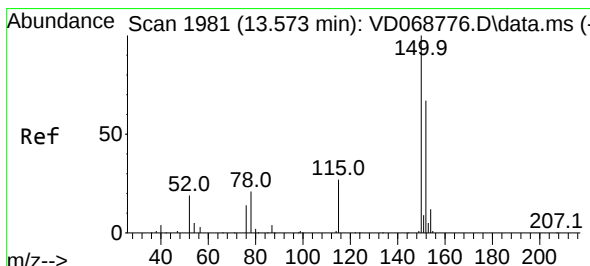
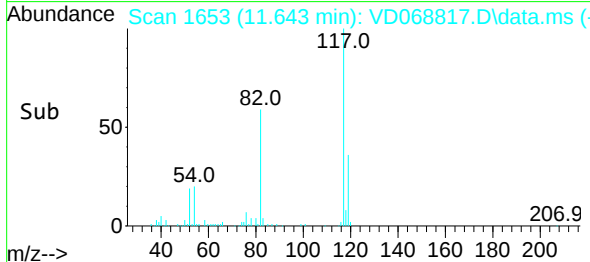
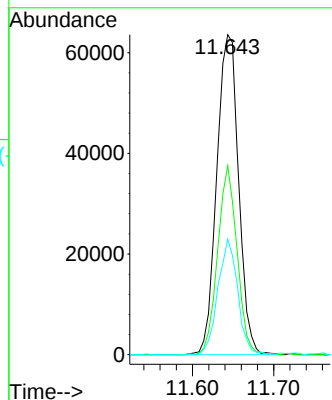
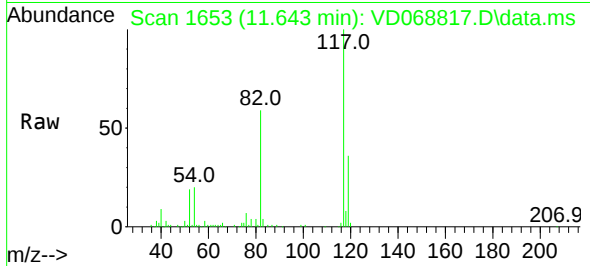




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.643 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

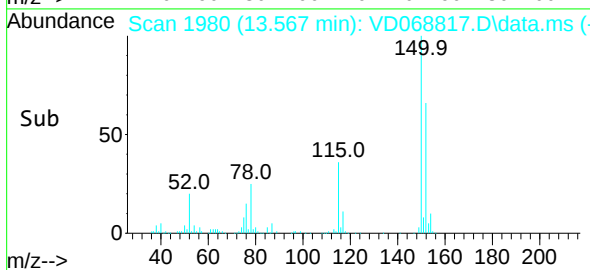
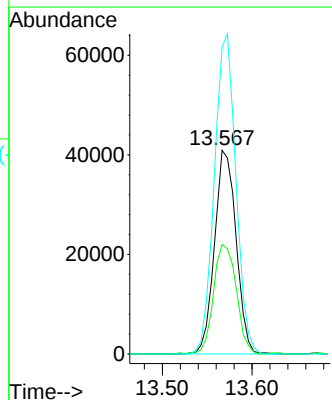
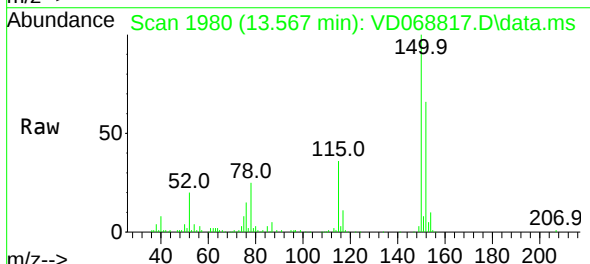
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-3RE

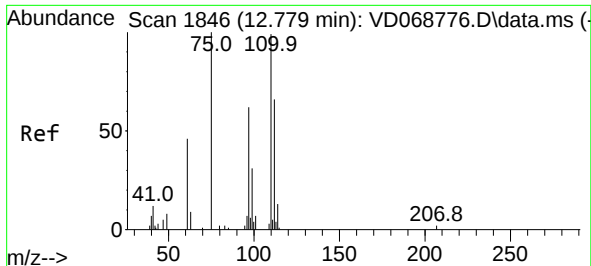
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 118929 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 59.1  | 43.5  | 65.3   |
| 119      | 36.1  | 26.7  | 40.1   |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.006 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 68378 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 56.7  | 29.3  | 87.8  |
| 150      | 156.4 | 0.0   | 347.6 |

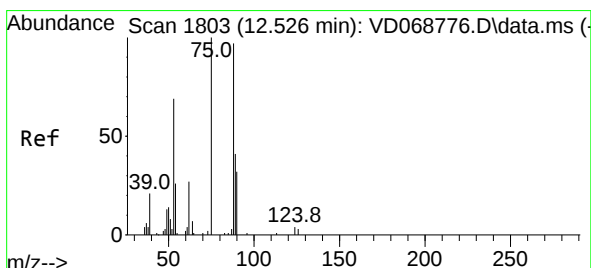
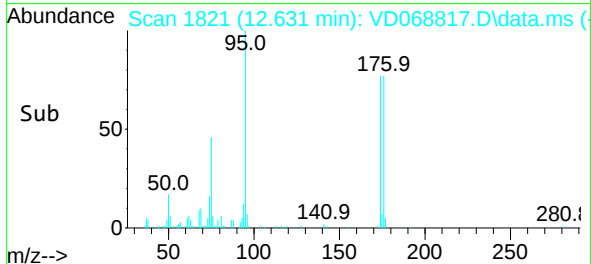
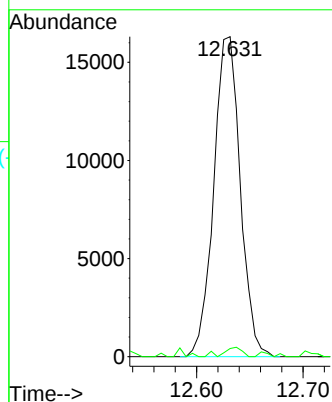
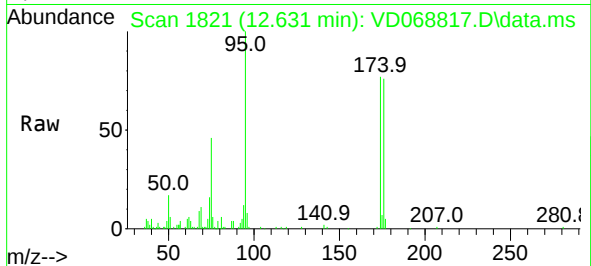




#76  
1,2,3-Trichloropropane  
Concen: 45.10 ug/l  
RT: 12.631 min Scan# 1821  
Delta R.T. -0.148 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Instrument :  
MSVOA\_D  
ClientSampleId :  
S-3RE

Tgt Ion: 75 Resp: 28174  
Ion Ratio Lower Upper  
75 100  
77 2.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 104.67 ug/l  
RT: 12.631 min Scan# 1821  
Delta R.T. 0.105 min  
Lab File: VD068817.D  
Acq: 09 Apr 2021 17:43

Tgt Ion: 75 Resp: 28174  
Ion Ratio Lower Upper  
75 100  
53 1.6 66.8 100.2#  
89 0.0 36.6 54.8#

