

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081921\  
 Data File : VD070184.D  
 Acq On : 20 Aug 2021 00:52  
 Operator : VA/SY  
 Sample : M3418-20  
 Misc : 8.23G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 20 05:50:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 14 02:33:51 2021  
 Response via : Initial Calibration

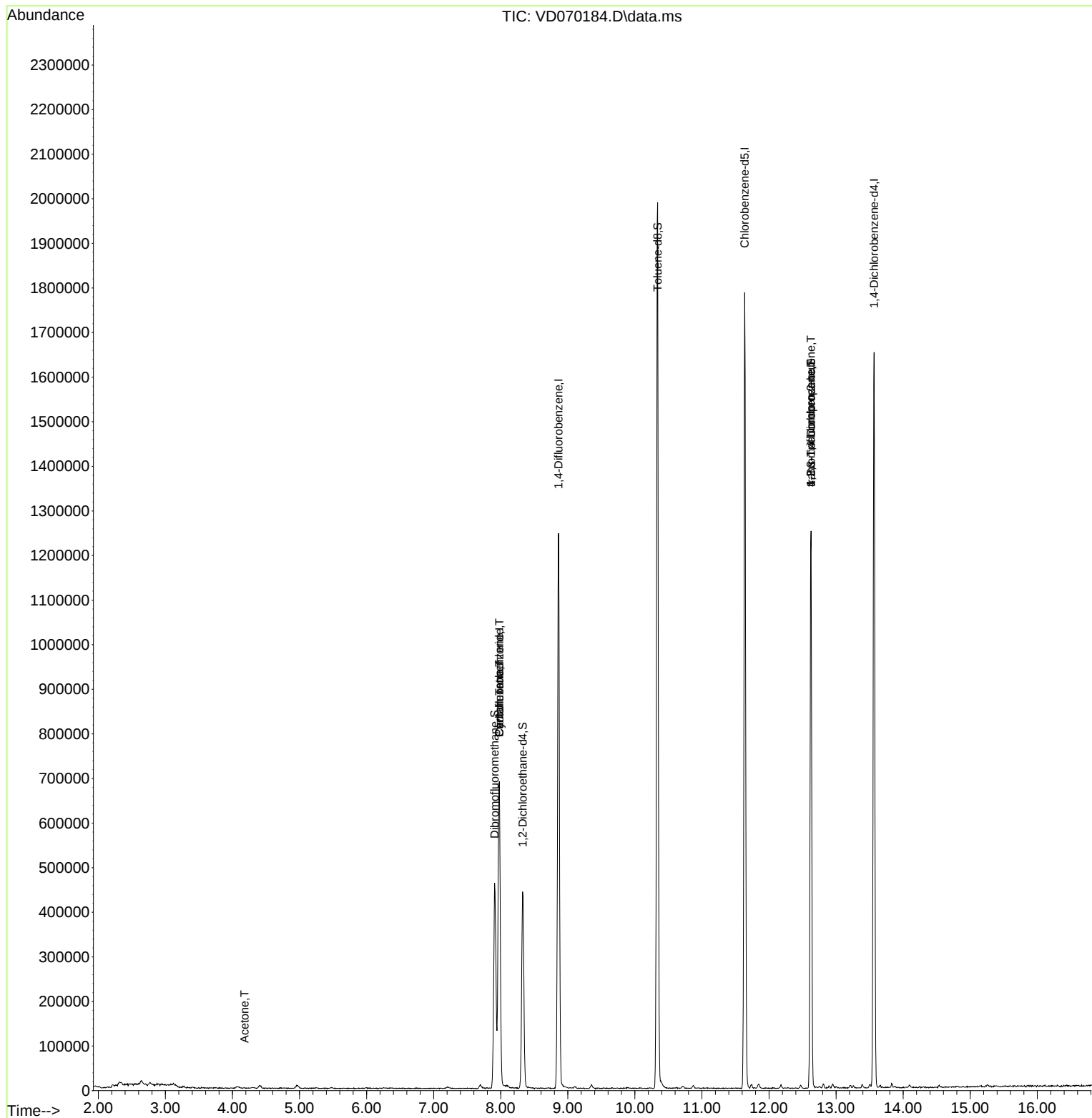
| Compound                      | R.T. QIon |       | Response | Conc      | Units     | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|-----------|----------|
| -----                         |           |       |          |           |           |          |
| Internal Standards            |           |       |          |           |           |          |
| 1) Pentafluorobenzene         | 7.979     | 168   | 498318   | 50.000    | ug/l      | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861     | 114   | 1042575  | 50.000    | ug/l      | 0.00     |
| 63) Chlorobenzene-d5          | 11.638    | 117   | 1031787  | 50.000    | ug/l      | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567    | 152   | 435786   | 50.000    | ug/l      | 0.00     |
| System Monitoring Compounds   |           |       |          |           |           |          |
| 33) 1,2-Dichloroethane-d4     | 8.326     | 65    | 347169   | 59.234    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | =         | 118.460% |
| 35) Dibromofluoromethane      | 7.908     | 113   | 334978   | 49.732    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | =         | 99.460%  |
| 50) Toluene-d8                | 10.338    | 98    | 1349112  | 51.496    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | =         | 103.000% |
| 62) 4-Bromofluorobenzene      | 12.626    | 95    | 441362   | 51.149    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | =         | 102.300% |
| Target Compounds              |           |       |          |           |           |          |
| 2) Dichlorodifluoromethane    | 1.985     | 85    | 2016     | Below Cal | Qvalue 92 |          |
| 3) Chloromethane              | 2.215     | 50    | 2538     | Below Cal | 92        |          |
| 5) Bromomethane               | 2.773     | 94    | 3587     | Below Cal | #         | 77       |
| 16) Acetone                   | 4.179     | 43    | 1688     | 1.563     | ug/l      | 92       |
| 20) Methylene Chloride        | 4.962     | 84    | 5569     | Below Cal | 87        |          |
| 31) Cyclohexane               | 7.979     | 56    | 13075    | 1.127     | ug/l      | # 1      |
| 38) Carbon Tetrachloride      | 7.979     | 117   | 54362    | 5.339     | ug/l      | # 15     |
| 76) 1,2,3-Trichloropropane    | 12.626    | 75    | 214541   | 48.545    | ug/l      | # 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.626    | 75    | 214541   | 126.004   | ug/l      | # 18     |
| -----                         |           |       |          |           |           |          |

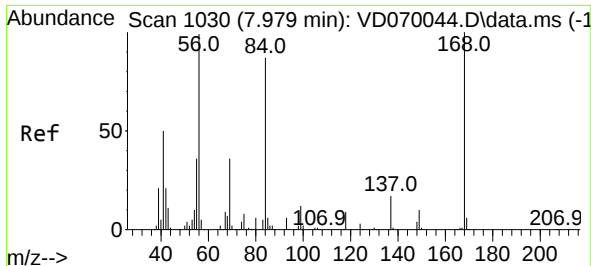
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M3418-20  
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ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Aug 20 05:50:08 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 14 02:33:51 2021  
Response via : Initial Calibration

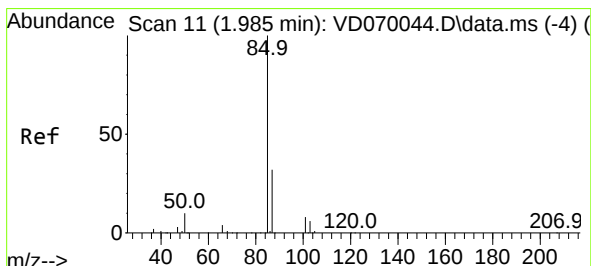
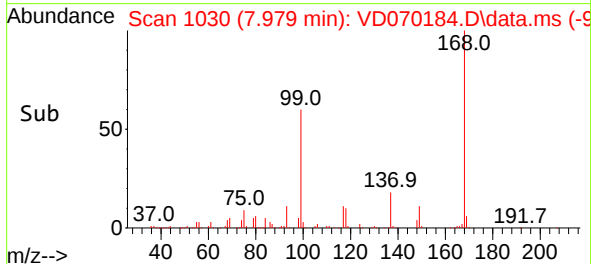
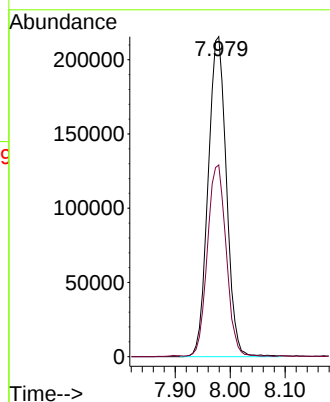
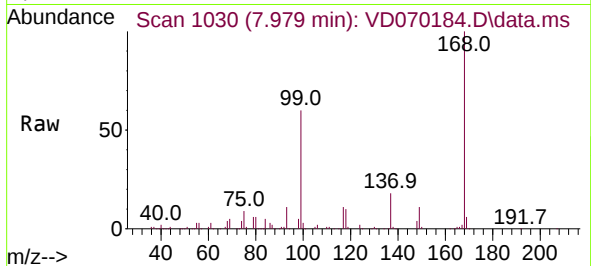




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

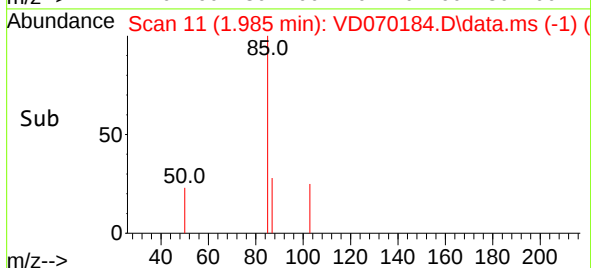
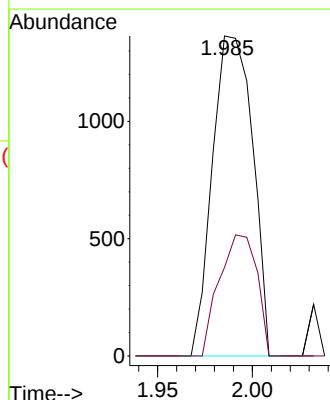
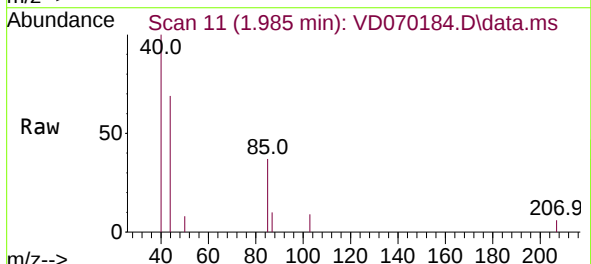
Instrument :  
MSVOA\_D  
ClientSampled :

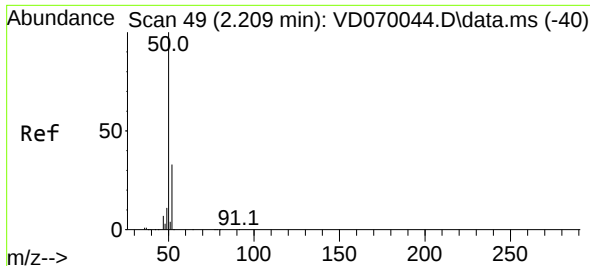
Tgt Ion:168 Resp: 498318  
Ion Ratio Lower Upper  
168 100  
99 59.6 50.3 75.5



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.985 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

Tgt Ion: 85 Resp: 2016  
Ion Ratio Lower Upper  
85 100  
87 27.7 16.2 48.6

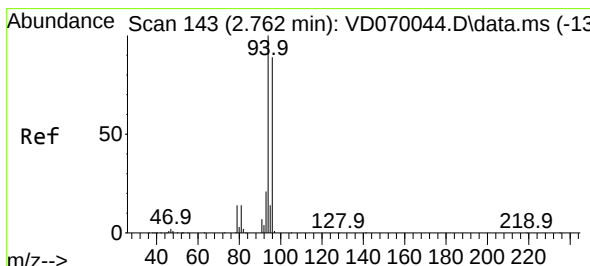
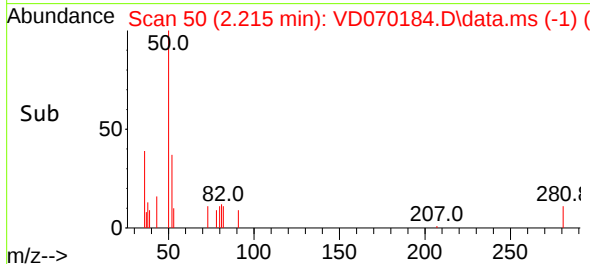
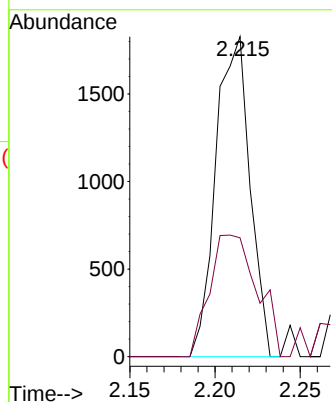
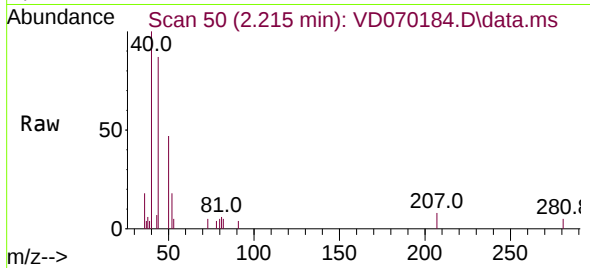




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.215 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

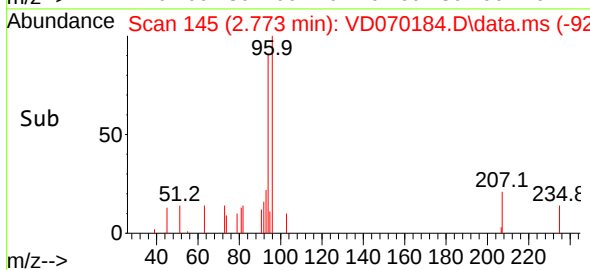
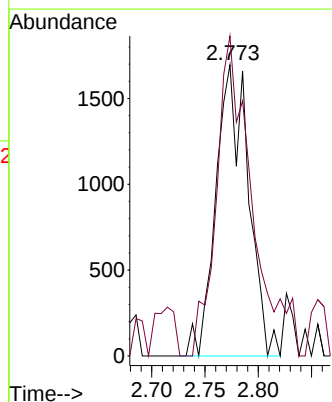
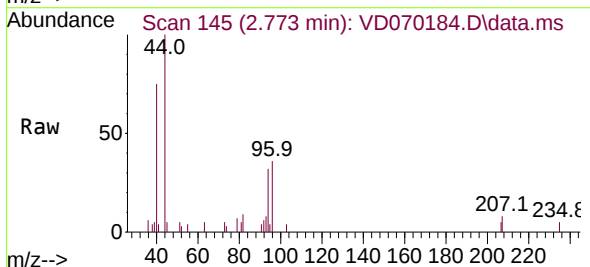
Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 50 Resp: 2538  
Ion Ratio Lower Upper  
50 100  
52 37.2 26.3 39.5



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.773 min Scan# 145  
Delta R.T. 0.011 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

Tgt Ion: 94 Resp: 3587  
Ion Ratio Lower Upper  
94 100  
96 109.9 70.9 106.3#

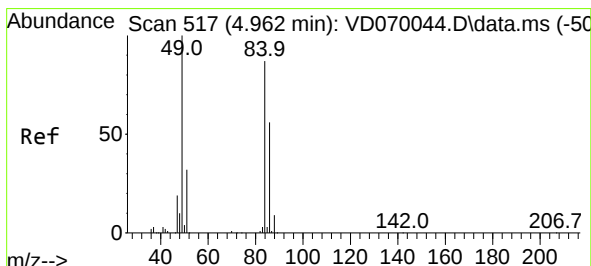
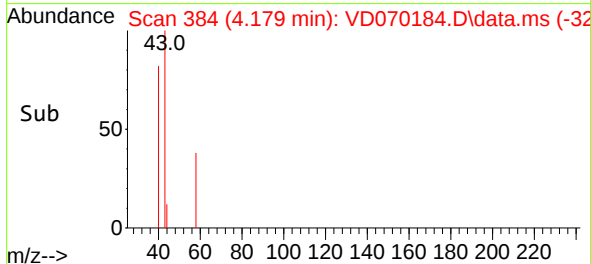
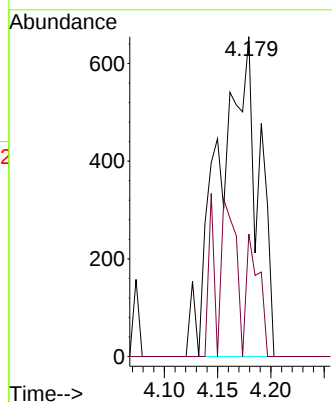
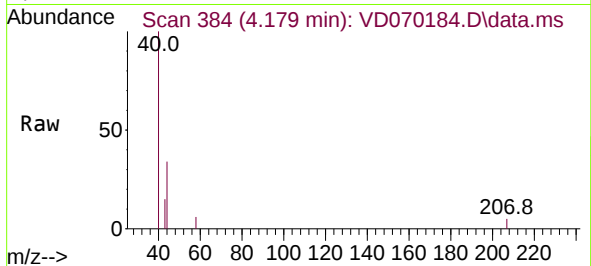




#16  
Acetone  
Concen: 1.563 ug/l  
RT: 4.179 min Scan# 384  
Delta R.T. 0.024 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

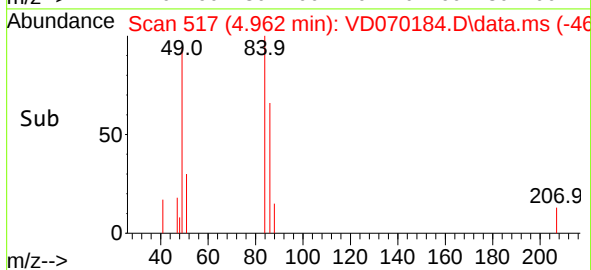
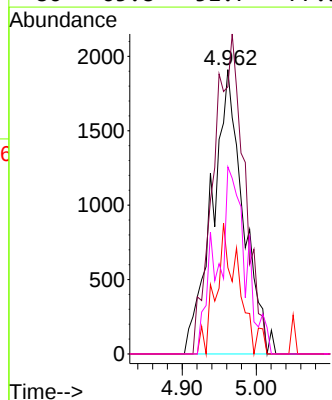
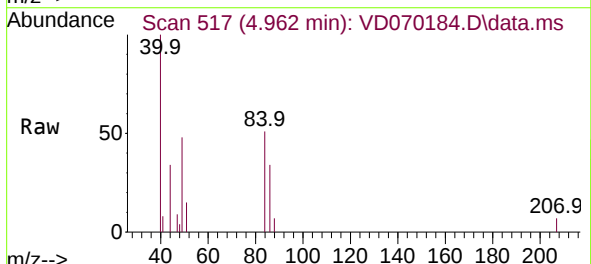
Instrument :  
MSVOA\_D  
ClientSampleId :

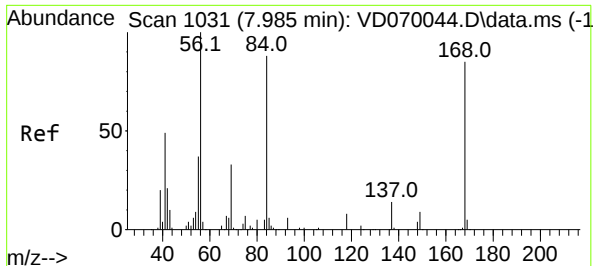
Tgt Ion: 43 Resp: 1688  
Ion Ratio Lower Upper  
43 100  
58 38.3 26.8 40.2



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

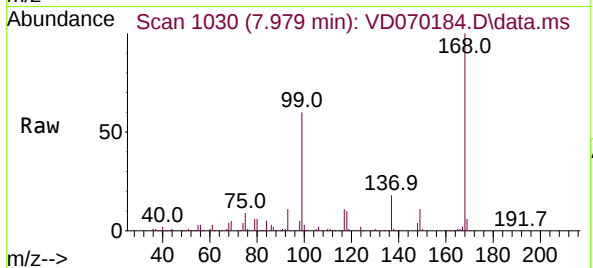
Tgt Ion: 84 Resp: 5569  
Ion Ratio Lower Upper  
84 100  
49 94.0 92.5 138.7  
51 30.4 29.7 44.5  
86 65.8 51.7 77.5



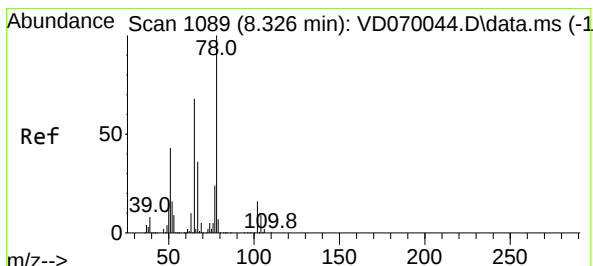
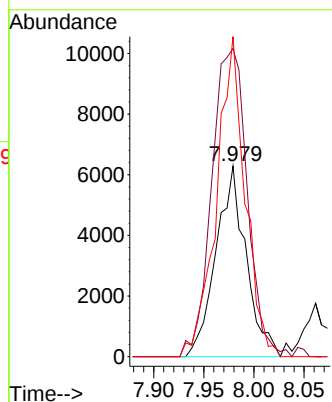
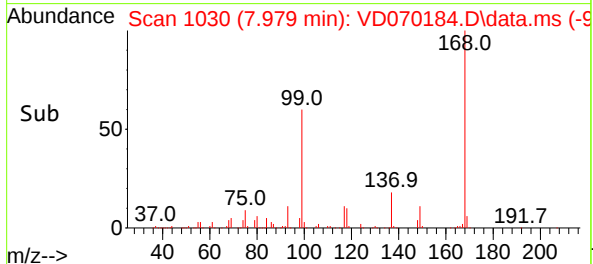


#31  
Cyclohexane  
Concen: 1.127 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

Instrument :  
MSVOA\_D  
ClientSampled :

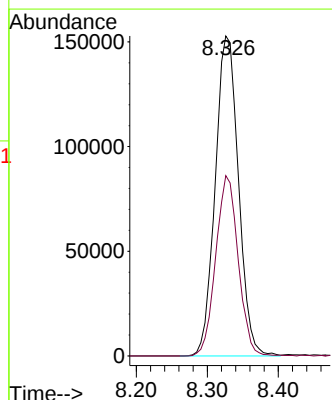
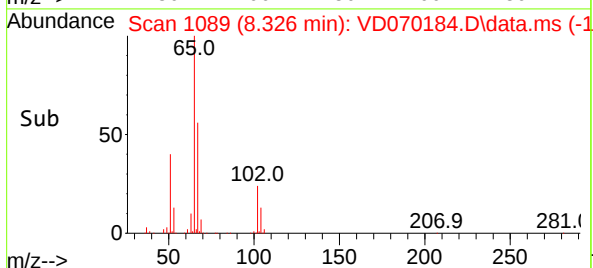
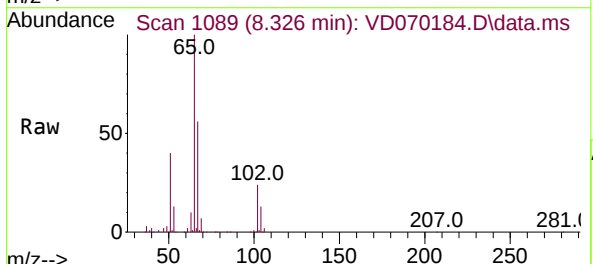


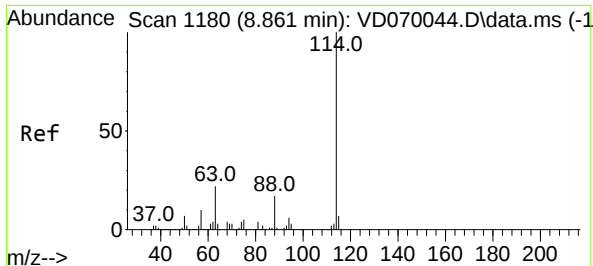
Tgt Ion: 56 Resp: 13075  
Ion Ratio Lower Upper  
56 100  
69 161.7 26.7 40.1#  
84 167.9 70.4 105.6#



#33  
1,2-Dichloroethane-d4  
Concen: 59.234 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

Tgt Ion: 65 Resp: 347169  
Ion Ratio Lower Upper  
65 100  
67 54.4 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD070184.D

Acq: 20 Aug 2021 00:52

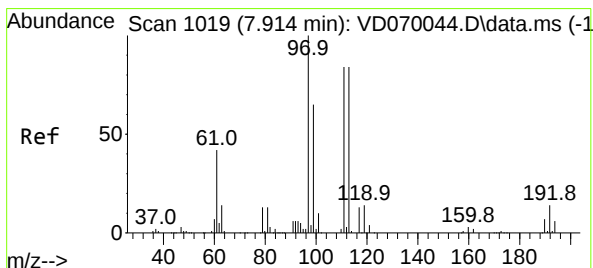
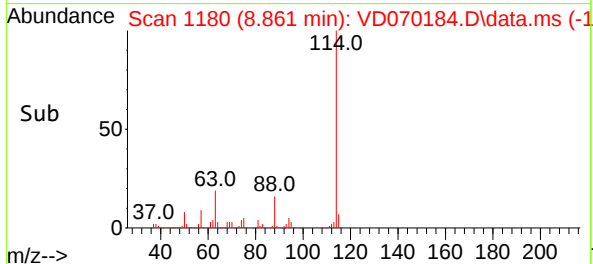
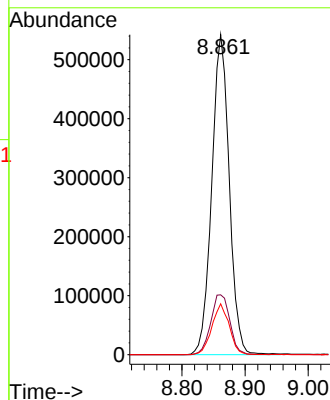
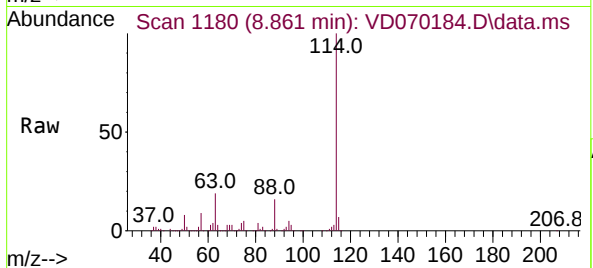
Tgt Ion:114 Resp: 1042575

Ion Ratio Lower Upper

114 100

63 18.7 0.0 43.6

88 15.9 0.0 33.4



#35

Dibromofluoromethane

Concen: 49.732 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD070184.D

Acq: 20 Aug 2021 00:52

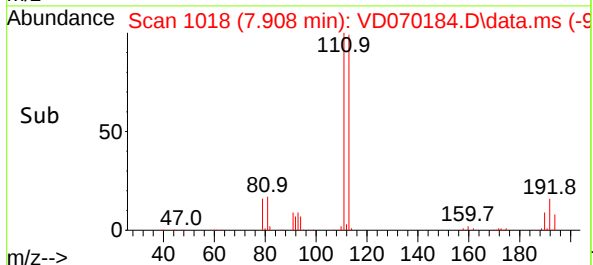
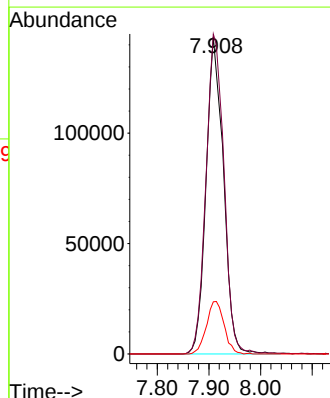
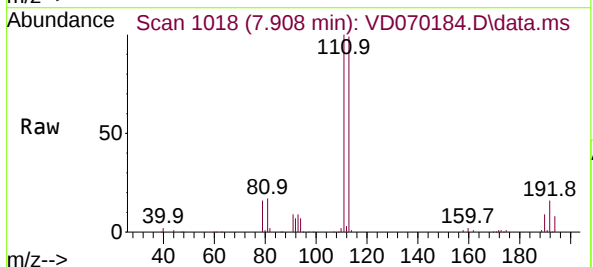
Tgt Ion:113 Resp: 334978

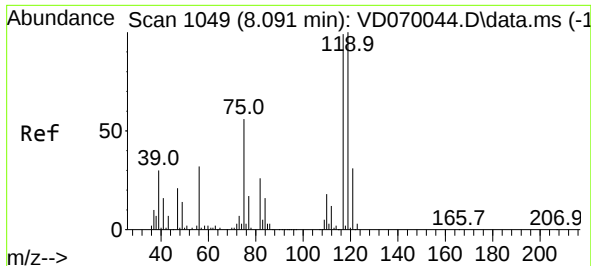
Ion Ratio Lower Upper

113 100

111 104.7 81.8 122.6

192 16.9 13.2 19.8

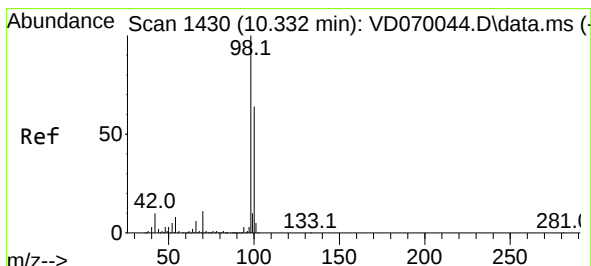
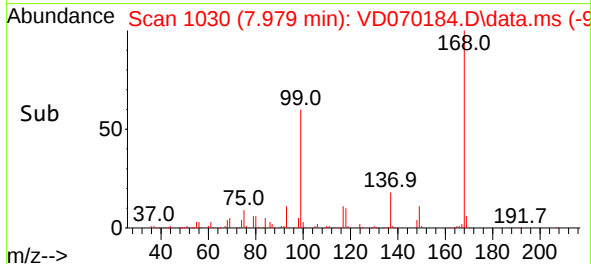
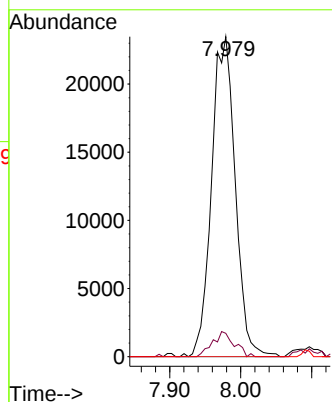
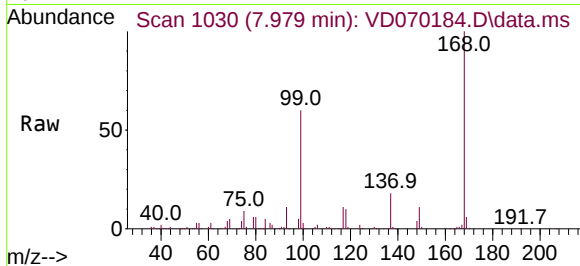




#38  
Carbon Tetrachloride  
Concen: 5.339 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.112 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

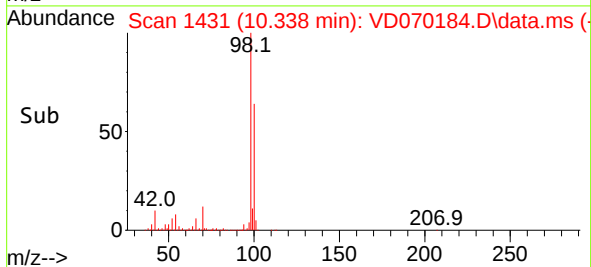
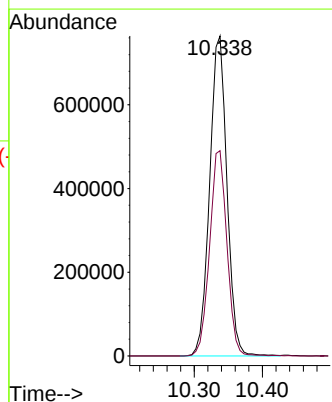
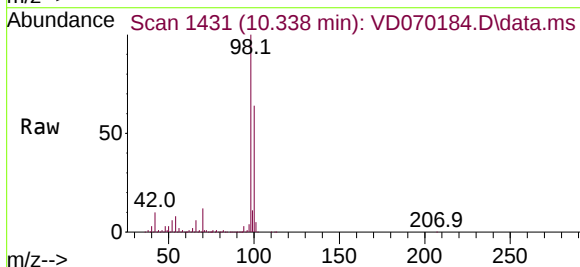
Instrument :  
MSVOA\_D  
ClientSampleId :

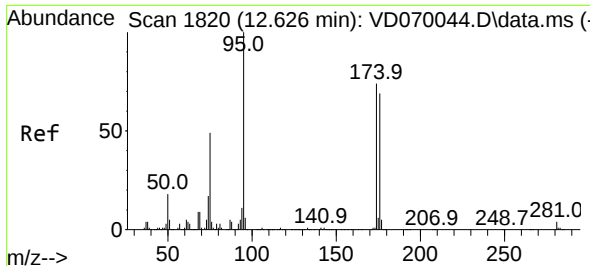
Tgt Ion:117 Resp: 54362  
Ion Ratio Lower Upper  
117 100  
119 7.3 81.0 121.6#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 51.496 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

Tgt Ion: 98 Resp: 1349112  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.6 78.8

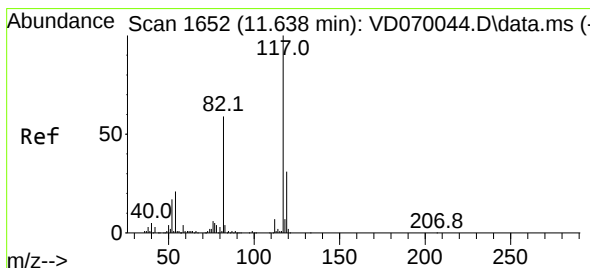
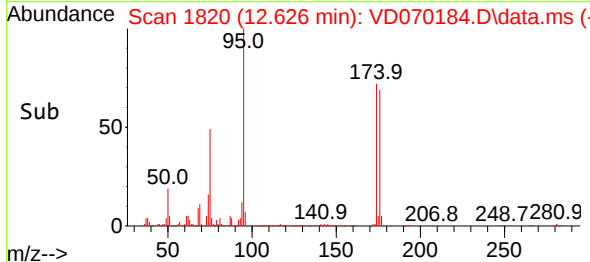
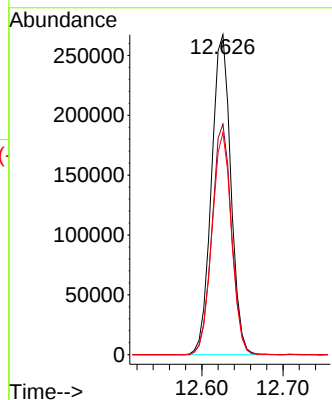
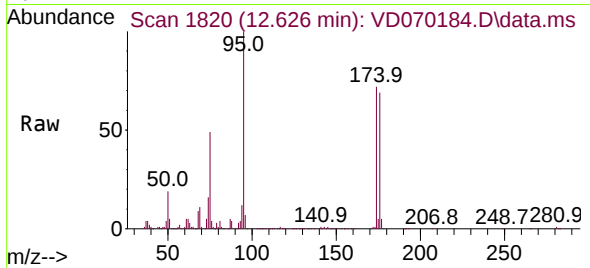




#62  
4-Bromofluorobenzene  
Concen: 51.149 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

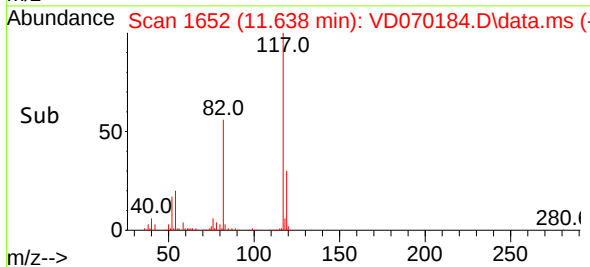
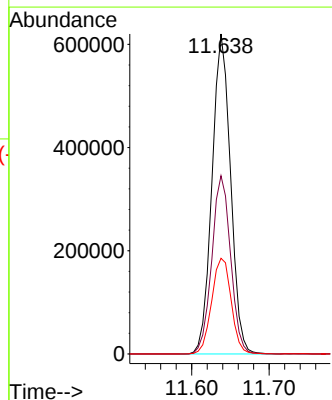
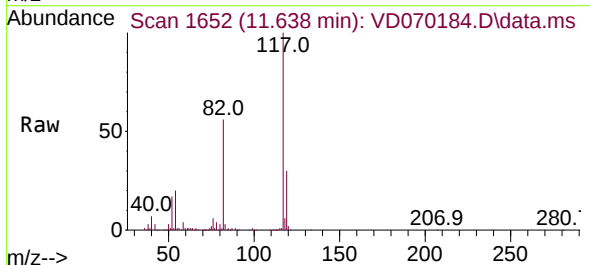
Instrument :  
MSVOA\_D  
ClientSampled :

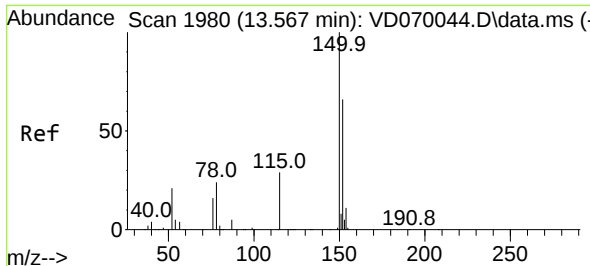
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Ion Ratio Lower Upper  
95 100  
174 73.3 0.0 141.6  
176 70.1 0.0 138.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070184.D  
Acq: 20 Aug 2021 00:52

Tgt Ion: 117 Resp: 1031787  
Ion Ratio Lower Upper  
117 100  
82 55.7 47.5 71.3  
119 29.9 25.1 37.7

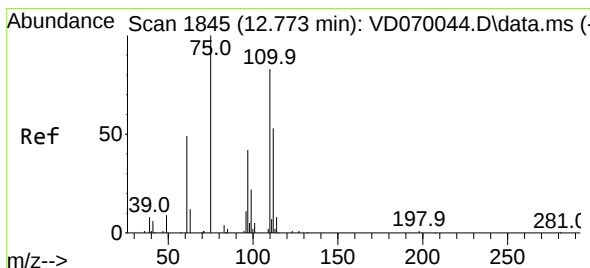
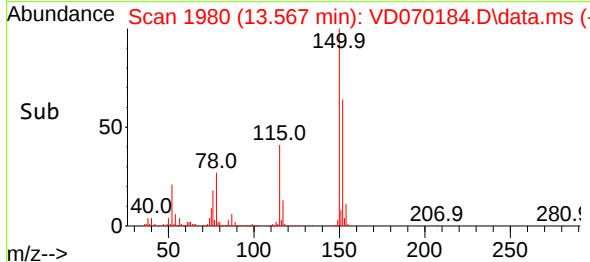
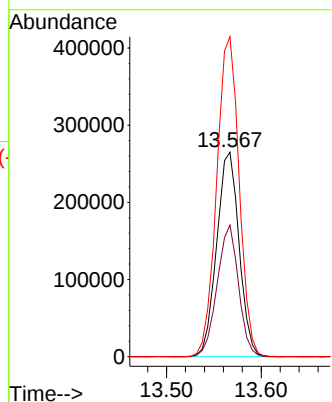
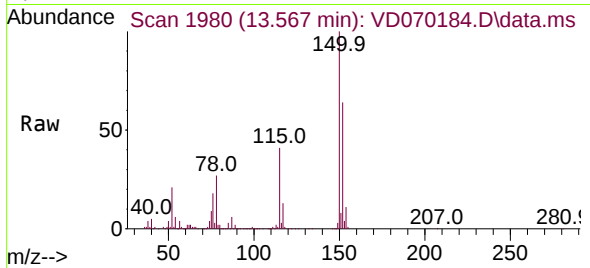




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.567 min Scan# 1980  
 Delta R.T. 0.000 min  
 Lab File: VD070184.D  
 Acq: 20 Aug 2021 00:52

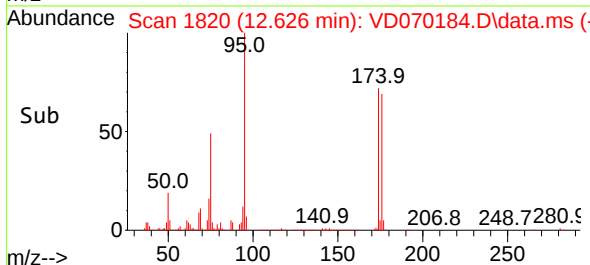
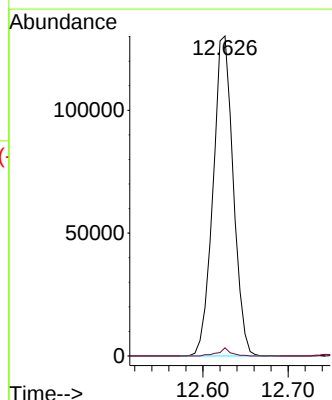
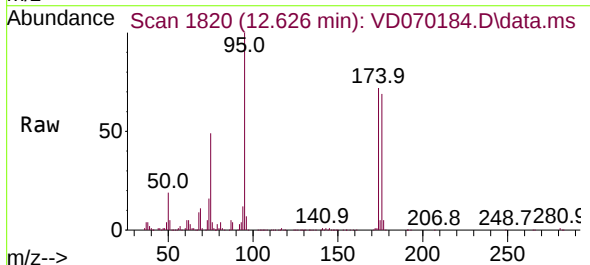
Instrument :  
 MSVOA\_D  
 ClientSampled :

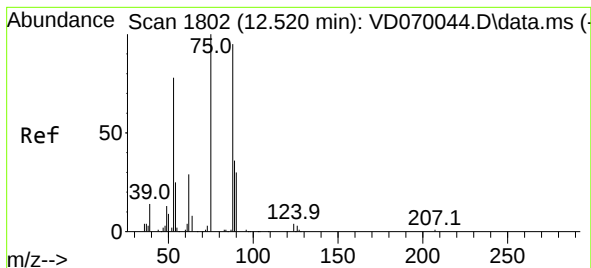
Tgt Ion:152 Resp: 435786  
 Ion Ratio Lower Upper  
 152 100  
 115 61.3 31.2 93.6  
 150 156.7 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 48.545 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. -0.147 min  
 Lab File: VD070184.D  
 Acq: 20 Aug 2021 00:52

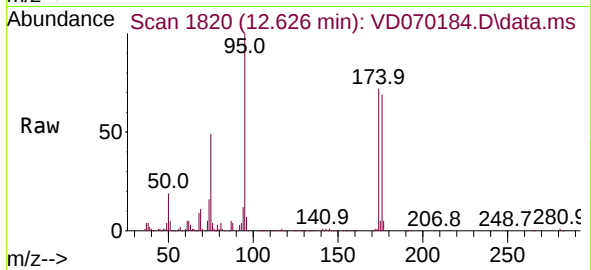
Tgt Ion: 75 Resp: 214541  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 182.4 547.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 126.004 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD070184.D  
 Acq: 20 Aug 2021 00:52

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 214541  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 53  | 0.3   | 64.5  | 96.7# |
| 89  | 0.1   | 33.7  | 50.5# |

