

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081321\  
 Data File : VD070048.D  
 Acq On : 13 Aug 2021 14:26  
 Operator : VA/SY  
 Sample : VD0813SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0813SBL01

Quant Time: Aug 14 02:37:46 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

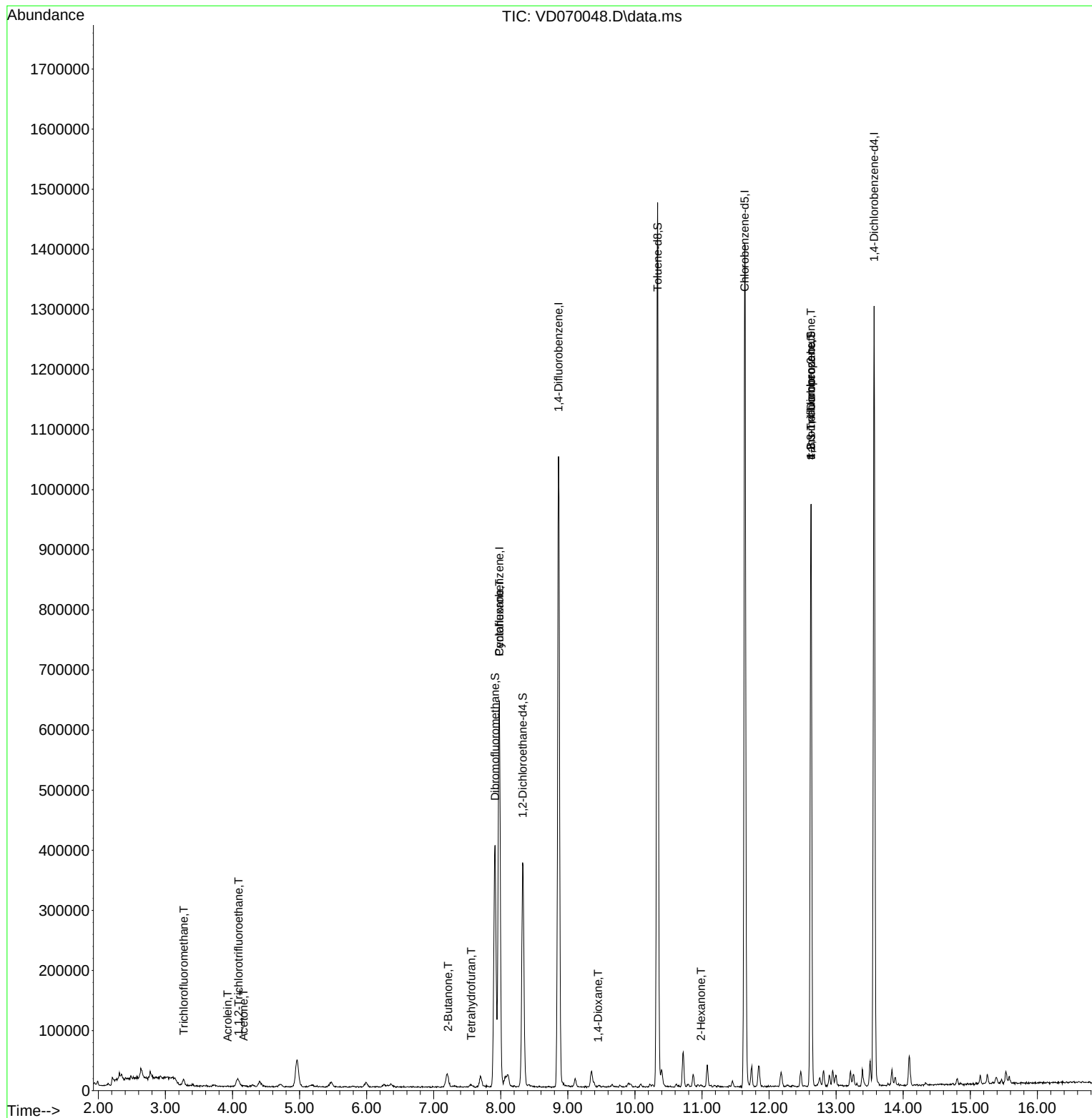
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 450061   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 902013   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 833683   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 343835   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 287291   | 54.273    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 108.540% |          |
| 35) Dibromofluoromethane      | 7.914  | 113   | 291801   | 50.072    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 100.140% |          |
| 50) Toluene-d8                | 10.338 | 98    | 1002387  | 44.224    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 88.440%  |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 327103   | 43.815    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 87.620%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.985  | 85    | 5636     | Below Cal |            | 93       |
| 3) Chloromethane              | 2.209  | 50    | 7978     | Below Cal |            | 96       |
| 5) Bromomethane               | 2.779  | 94    | 8042     | Below Cal |            | 94       |
| 7) Trichlorofluoromethane     | 3.273  | 101   | 10129    | 1.107     | ug/l       | 92       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.091  | 101   | 5993     | 1.030     | ug/l #     | 58       |
| 13) Acrolein                  | 3.926  | 56    | 591      | 1.754     | ug/l #     | 50       |
| 16) Acetone                   | 4.167  | 43    | 3826     | 3.924     | ug/l #     | 62       |
| 20) Methylene Chloride        | 4.961  | 84    | 36921    | Below Cal |            | 98       |
| 25) 2-Butanone                | 7.214  | 43    | 2053     | 1.541     | ug/l       | 93       |
| 29) Tetrahydrofuran           | 7.561  | 42    | 1674     | 1.919     | ug/l #     | 52       |
| 31) Cyclohexane               | 7.979  | 56    | 18936    | 1.807     | ug/l #     | 13       |
| 49) 1,4-Dioxane               | 9.449  | 88    | 105      | 2.717     | ug/l #     | 23       |
| 59) 2-Hexanone                | 10.985 | 43    | 2418     | 1.055     | ug/l       | 74       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 159674   | 45.792    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 159674   | 118.859   | ug/l #     | 18       |
| -----                         |        |       |          |           |            |          |

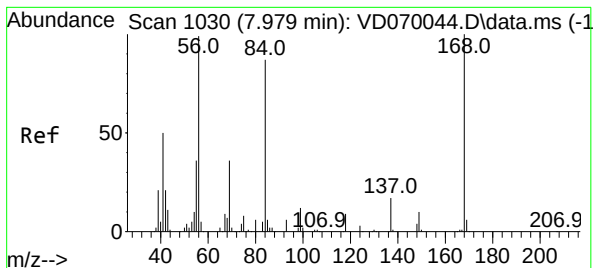
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081321\  
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Sample : VD0813SBL01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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VD0813SBL01

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QLast Update : Sat Aug 14 02:33:51 2021  
Response via : Initial Calibration



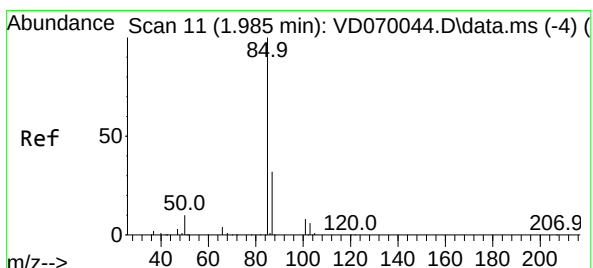
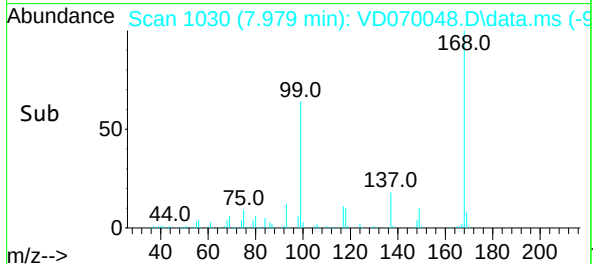
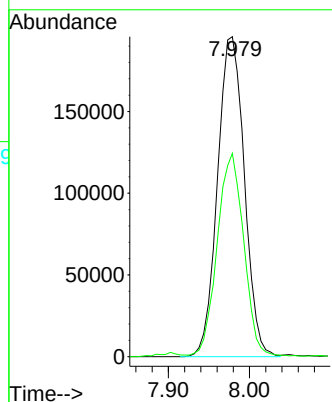
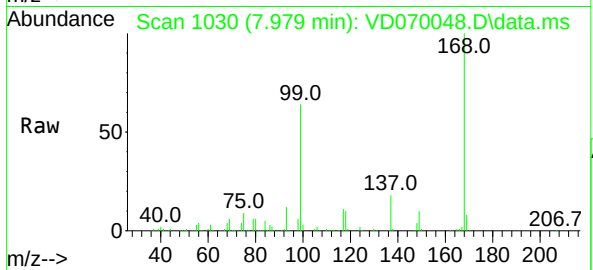


#1

Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.979 min Scan# 1030  
 Delta R.T. -0.000 min  
 Lab File: VD070048.D  
 Acq: 13 Aug 2021 14:26

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0813SBL01

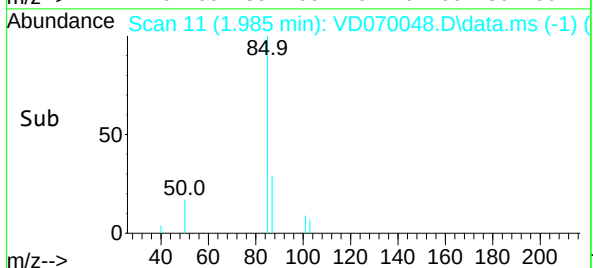
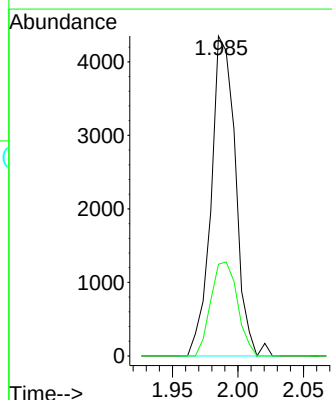
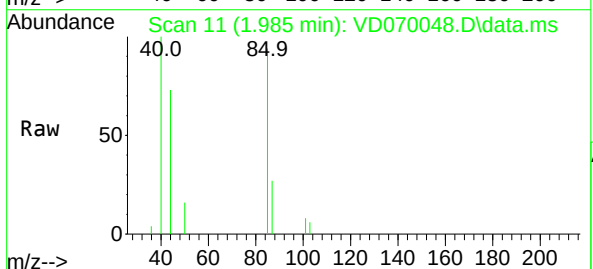
Tgt Ion:168 Resp: 450061  
 Ion Ratio Lower Upper  
 168 100  
 99 63.1 50.3 75.5

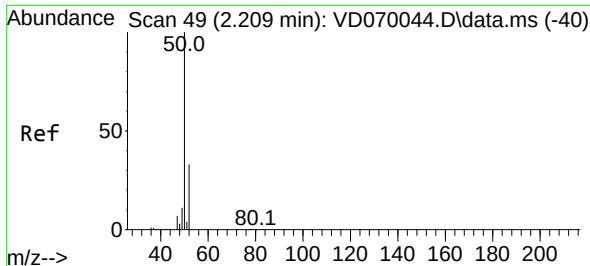


#2

Dichlorodifluoromethane  
 Concen: Below Cal  
 RT: 1.985 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VD070048.D  
 Acq: 13 Aug 2021 14:26

Tgt Ion: 85 Resp: 5636  
 Ion Ratio Lower Upper  
 85 100  
 87 28.6 16.2 48.6

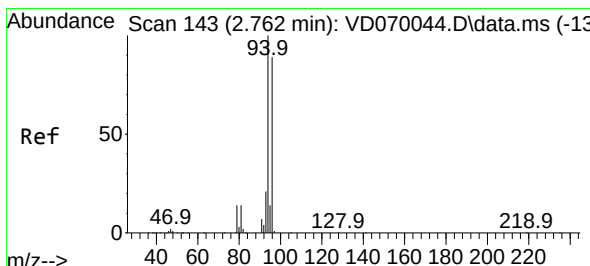
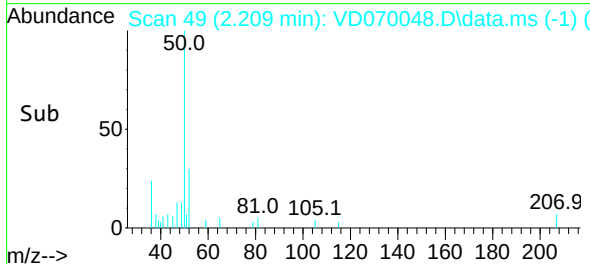
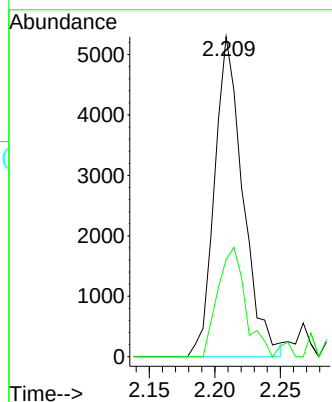
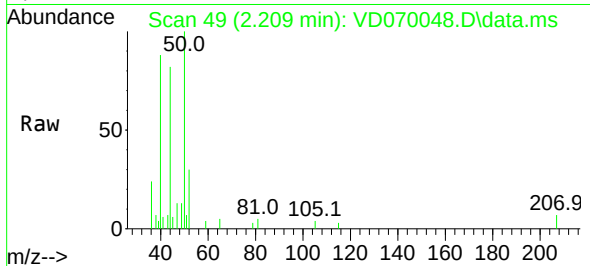




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

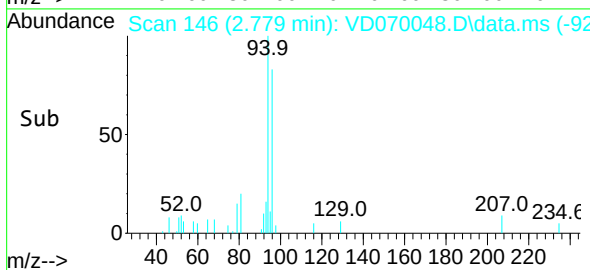
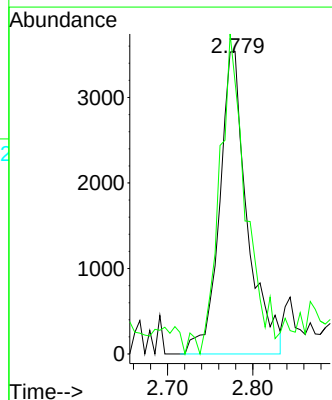
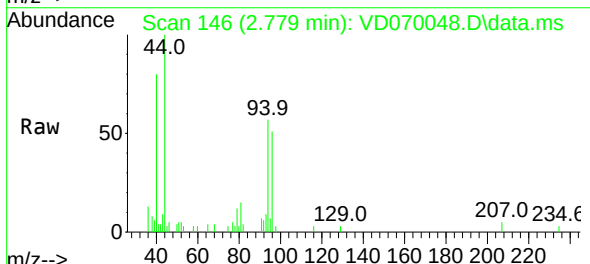
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0813SBL01

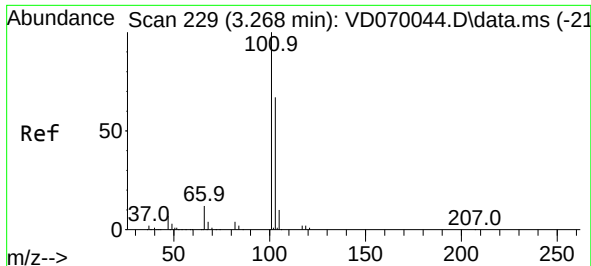
Tgt Ion: 50 Resp: 7978  
Ion Ratio Lower Upper  
50 100  
52 30.4 26.3 39.5



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

Tgt Ion: 94 Resp: 8042  
Ion Ratio Lower Upper  
94 100  
96 82.8 70.9 106.3

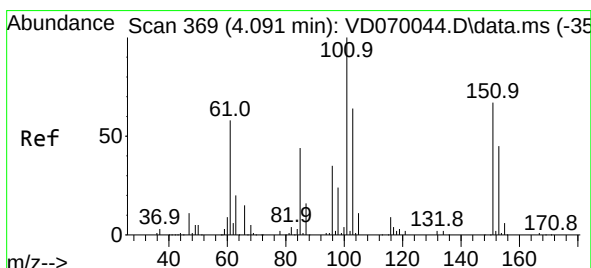
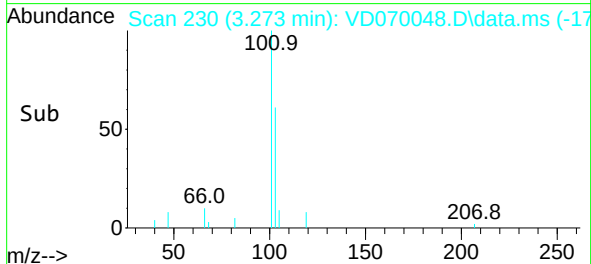
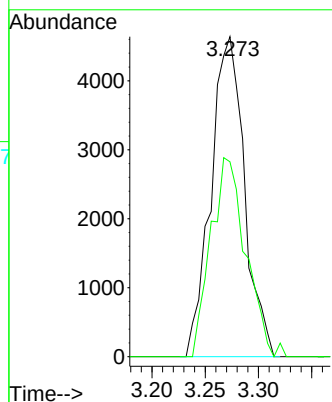
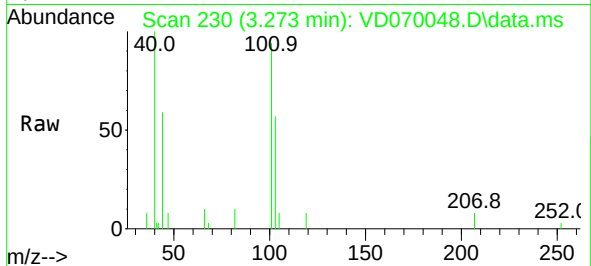




#7  
 Trichlorofluoromethane  
 Concen: 1.107 ug/l  
 RT: 3.273 min Scan# 230  
 Delta R.T. 0.006 min  
 Lab File: VD070048.D  
 Acq: 13 Aug 2021 14:26

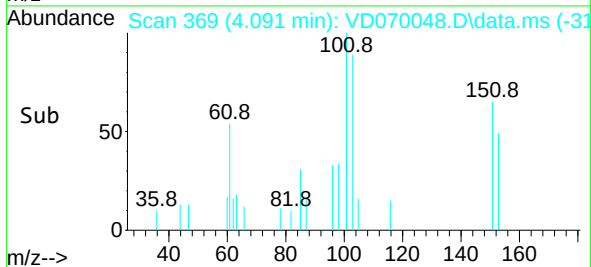
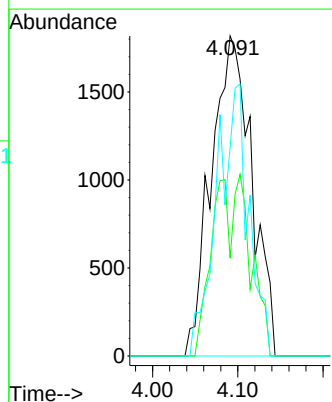
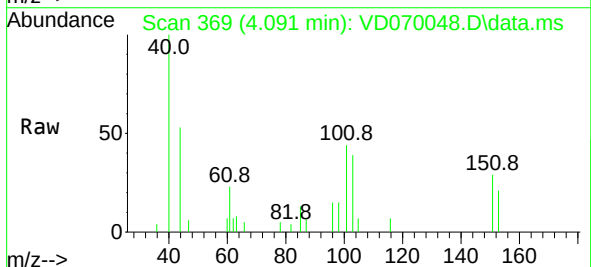
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0813SBL01

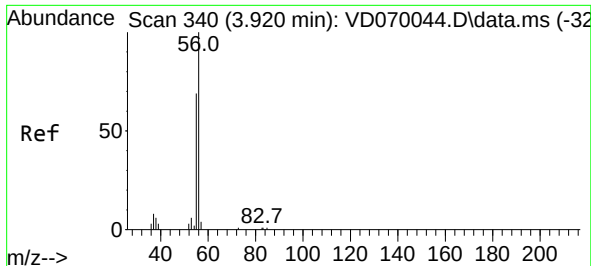
Tgt Ion:101 Resp: 10129  
 Ion Ratio Lower Upper  
 101 100  
 103 60.9 53.9 80.9



#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 1.030 ug/l  
 RT: 4.091 min Scan# 369  
 Delta R.T. -0.000 min  
 Lab File: VD070048.D  
 Acq: 13 Aug 2021 14:26

Tgt Ion:101 Resp: 5993  
 Ion Ratio Lower Upper  
 101 100  
 85 26.6 34.6 52.0#  
 151 25.9 55.0 82.6#

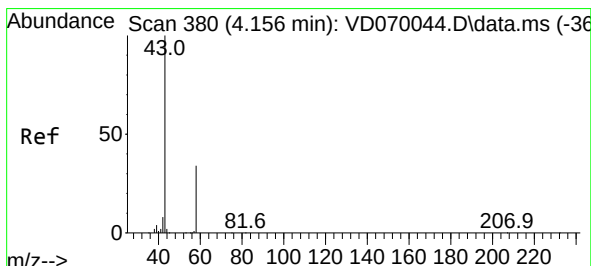
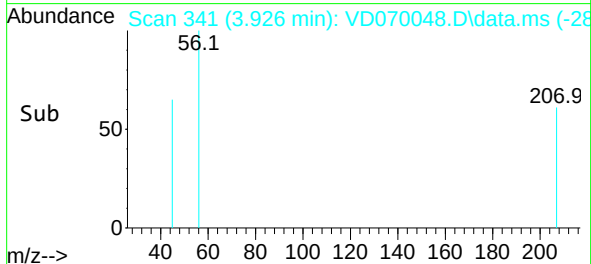
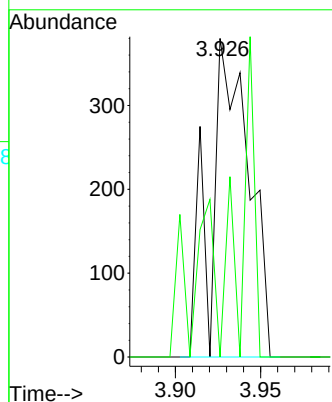
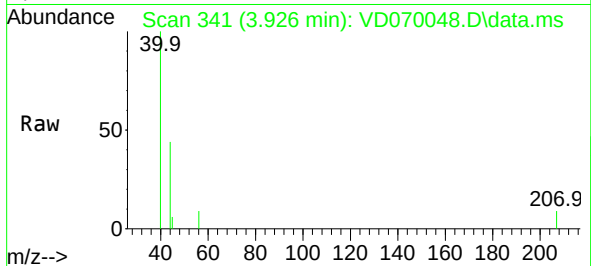




#13  
Acrolein  
Concen: 1.754 ug/l  
RT: 3.926 min Scan# 341  
Delta R.T. 0.006 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

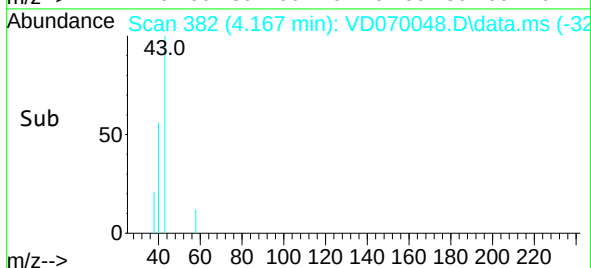
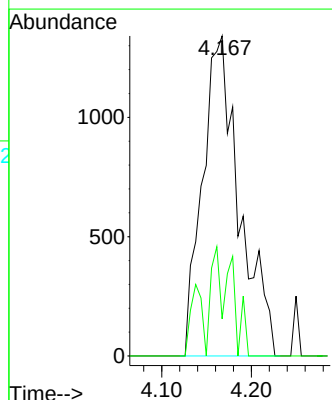
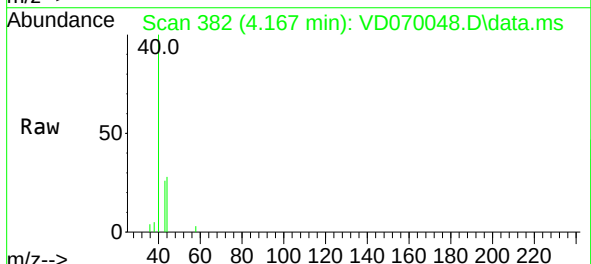
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0813SBL01

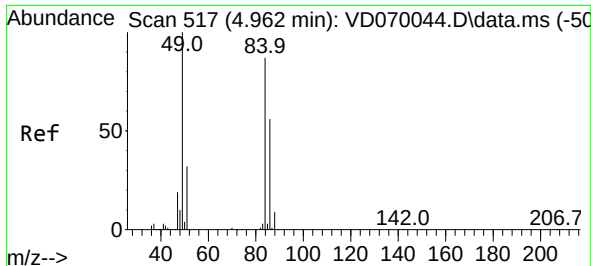
Tgt Ion: 56 Resp: 591  
Ion Ratio Lower Upper  
56 100  
55 30.5 57.4 86.0#



#16  
Acetone  
Concen: 3.924 ug/l  
RT: 4.167 min Scan# 382  
Delta R.T. 0.012 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

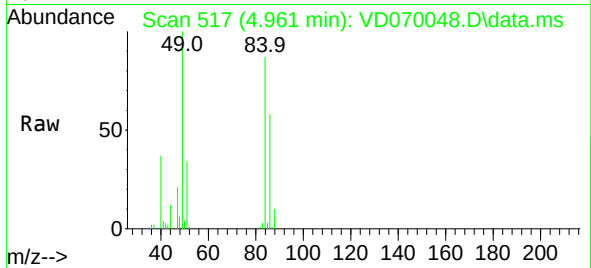
Tgt Ion: 43 Resp: 3826  
Ion Ratio Lower Upper  
43 100  
58 11.6 26.8 40.2#



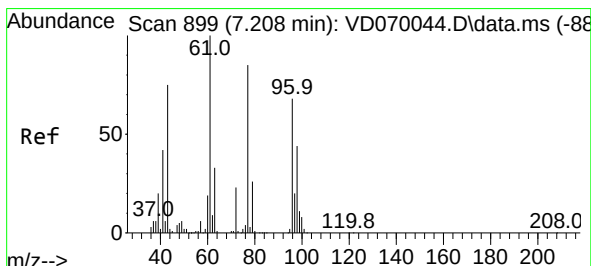
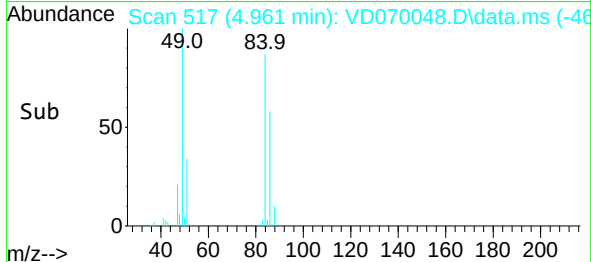
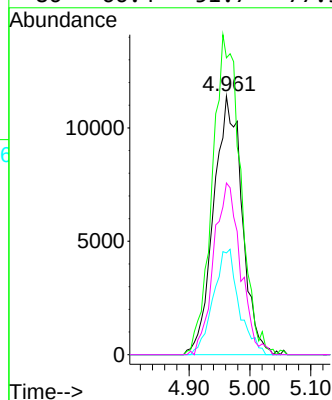


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.961 min Scan# 517  
Delta R.T. -0.001 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0813SBL01

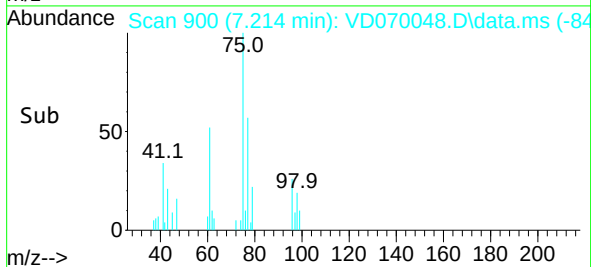
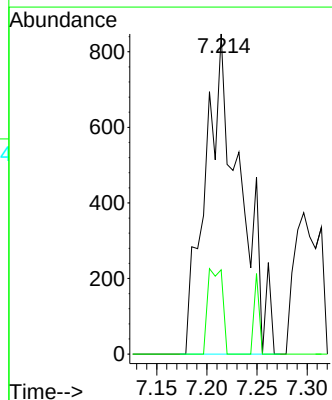
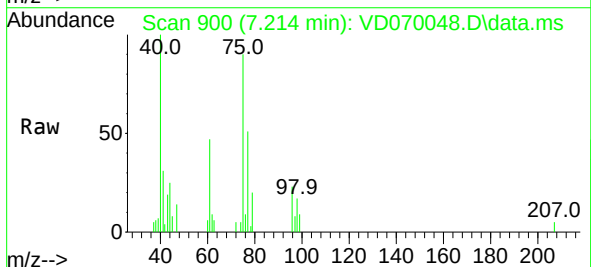


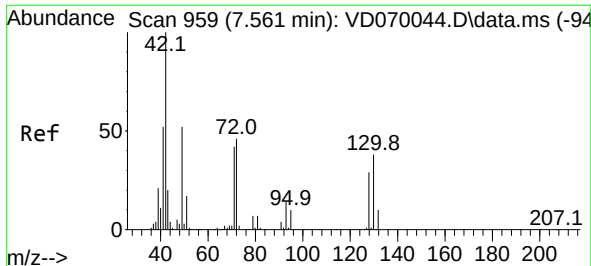
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 36921 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 114.8 | 92.5  | 138.7 |
| 51       | 39.3  | 29.7  | 44.5  |
| 86       | 66.4  | 51.7  | 77.5  |



#25  
2-Butanone  
Concen: 1.541 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.006 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2053  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 26.3  | 24.2  | 36.4  |





#29

Tetrahydrofuran

Concen: 1.919 ug/l

RT: 7.561 min Scan# 959

Delta R.T. -0.000 min

Lab File: VD070048.D

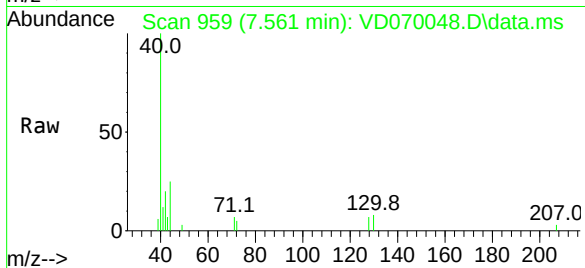
Acq: 13 Aug 2021 14:26

Instrument :

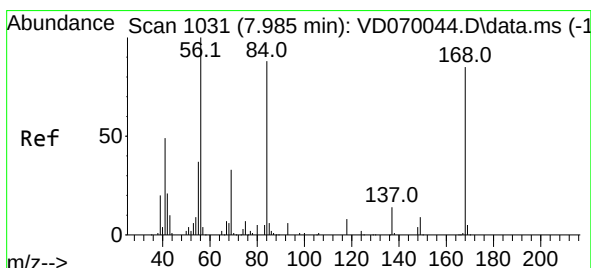
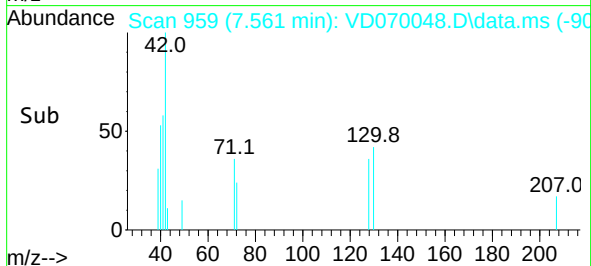
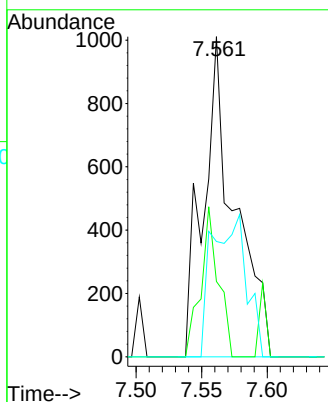
MSVOA\_D

ClientSampleId :

VD0813SBL01



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 1674  |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 26.5  | 37.5  | 56.3# |
| 71        | 0.0   | 33.6  | 50.4# |



#31

Cyclohexane

Concen: 1.807 ug/l

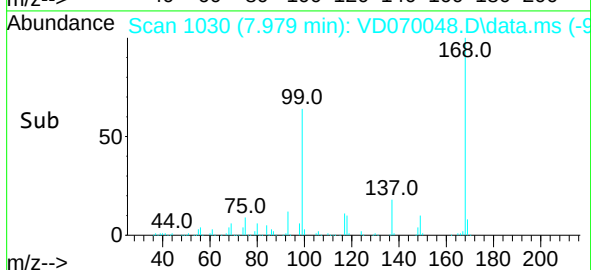
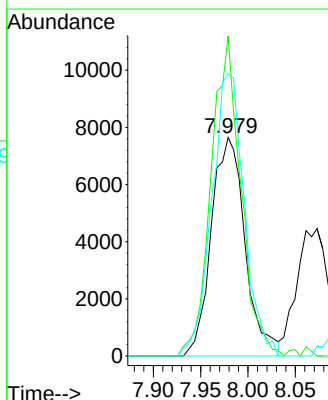
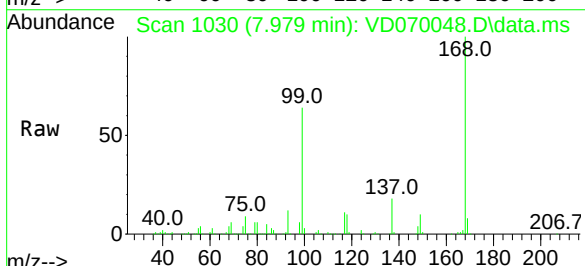
RT: 7.979 min Scan# 1030

Delta R.T. -0.006 min

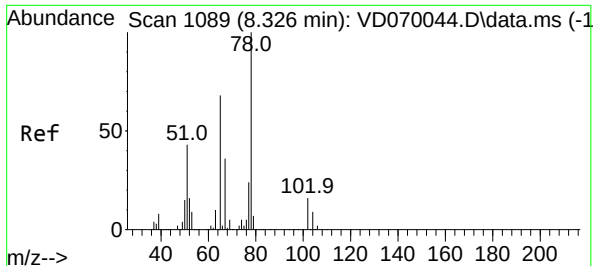
Lab File: VD070048.D

Acq: 13 Aug 2021 14:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 56    | Resp: | 18936  |
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 146.5 | 26.7  | 40.1#  |
| 84        | 129.2 | 70.4  | 105.6# |





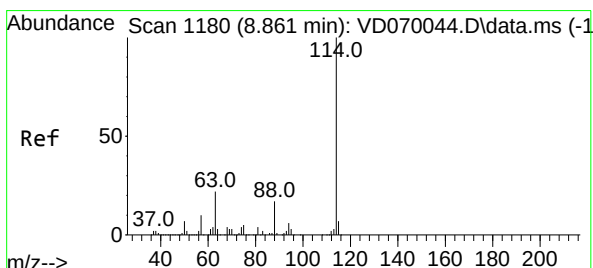
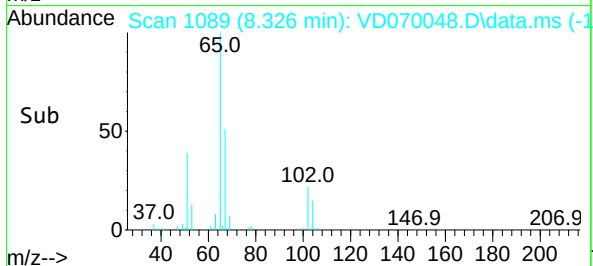
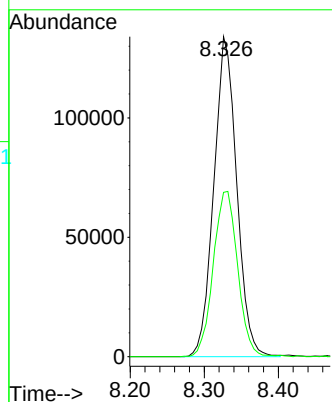
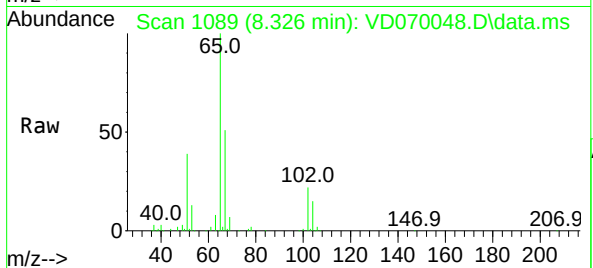


#33

1,2-Dichloroethane-d4  
Concen: 54.273 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0813SBL01

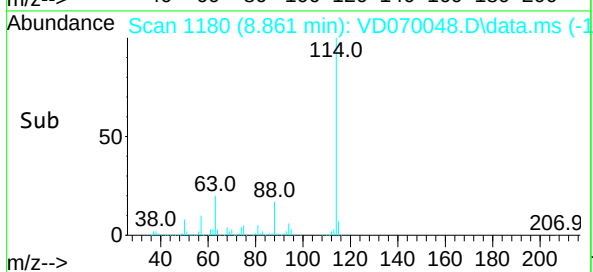
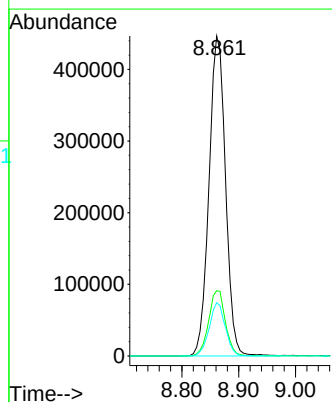
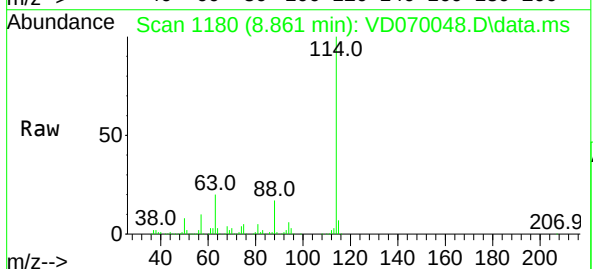
Tgt Ion: 65 Resp: 287291  
Ion Ratio Lower Upper  
65 100  
67 55.1 0.0 107.8

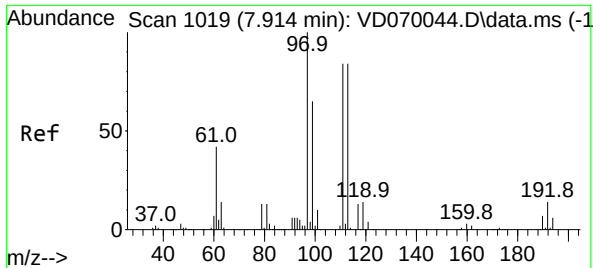


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.000 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

Tgt Ion: 114 Resp: 902013  
Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 43.6  
88 16.6 0.0 33.4

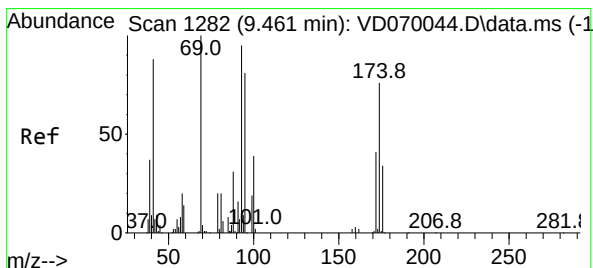
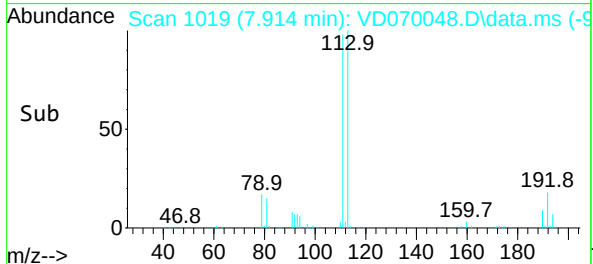
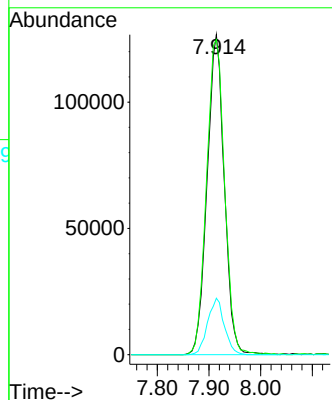
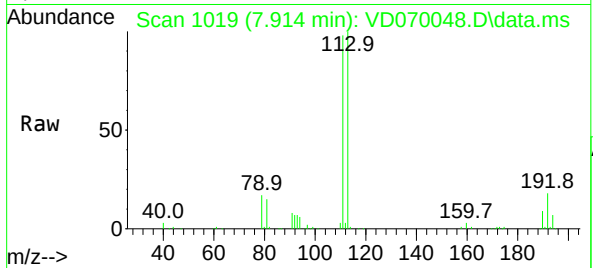




#35  
Dibromofluoromethane  
Concen: 50.072 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

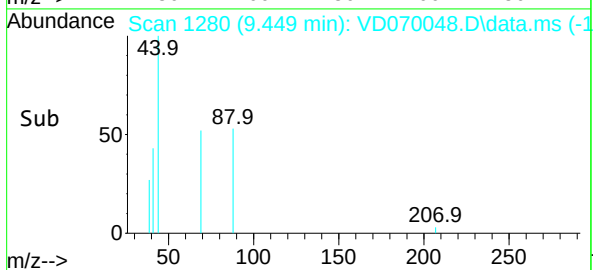
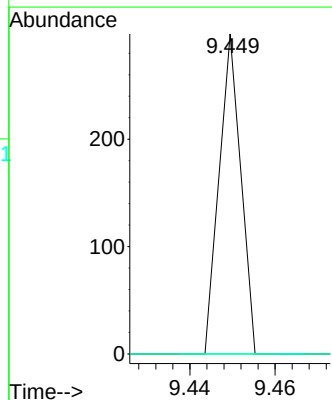
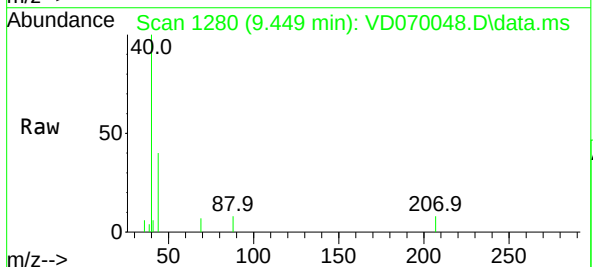
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0813SBL01

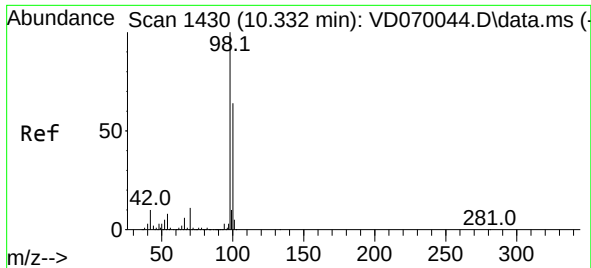
Tgt Ion:113 Resp: 291801  
Ion Ratio Lower Upper  
113 100  
111 103.8 81.8 122.6  
192 17.2 13.2 19.8



#49  
1,4-Dioxane  
Concen: 2.717 ug/l  
RT: 9.449 min Scan# 1280  
Delta R.T. -0.012 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

Tgt Ion: 88 Resp: 105  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.8 38.6#  
58 0.0 57.4 86.2#

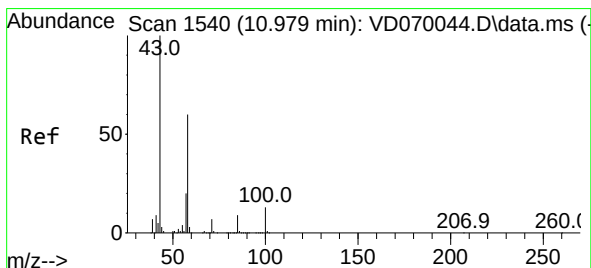
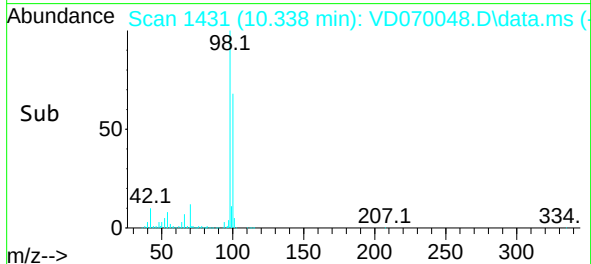
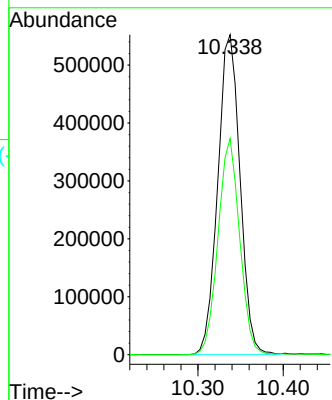
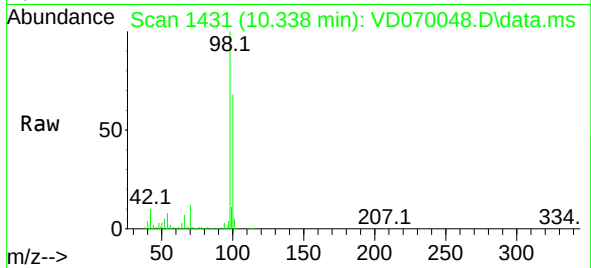




#50  
Toluene-d8  
Concen: 44.224 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

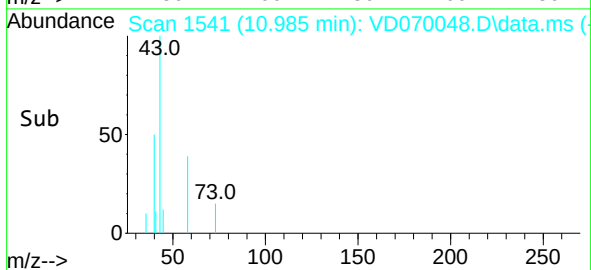
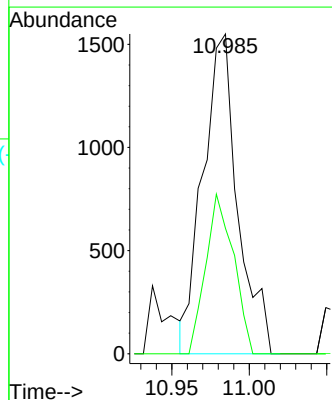
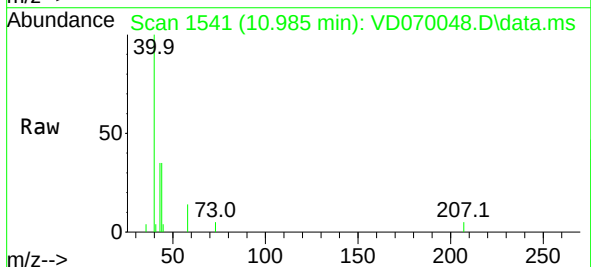
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0813SBL01

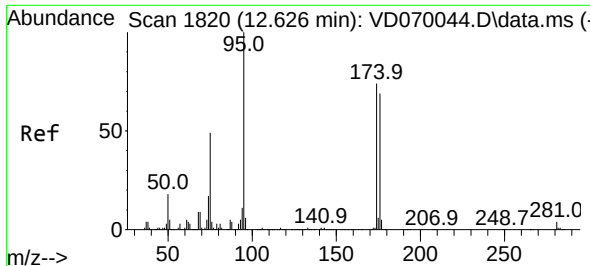
Tgt Ion: 98 Resp: 1002387  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.6 78.8



#59  
2-Hexanone  
Concen: 1.055 ug/l  
RT: 10.985 min Scan# 1541  
Delta R.T. 0.006 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

Tgt Ion: 43 Resp: 2418  
Ion Ratio Lower Upper  
43 100  
58 39.9 29.5 88.5

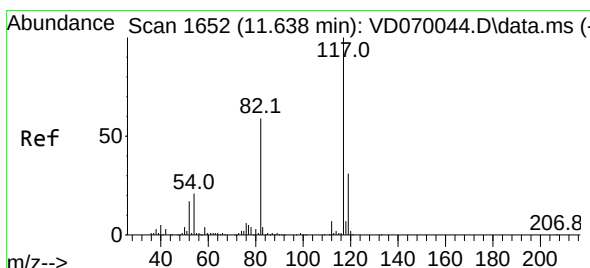
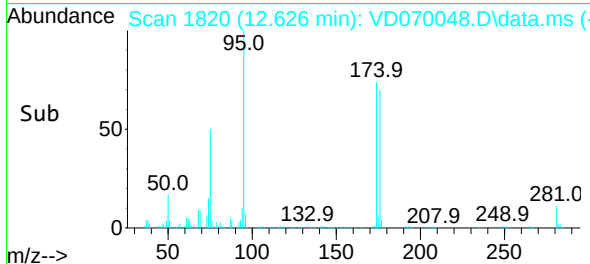
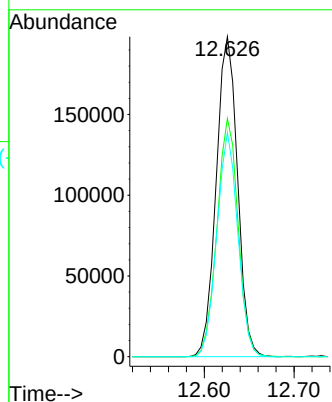
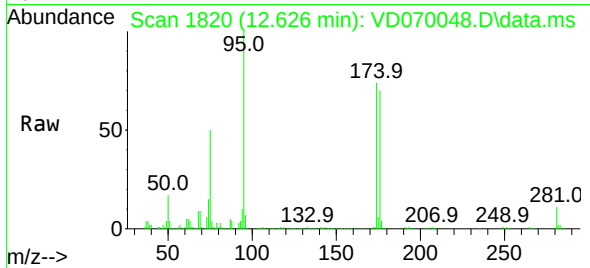




#62  
4-Bromofluorobenzene  
Concen: 43.815 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

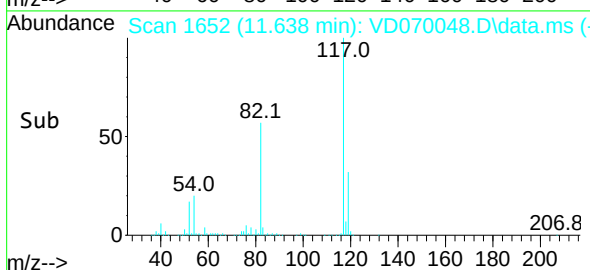
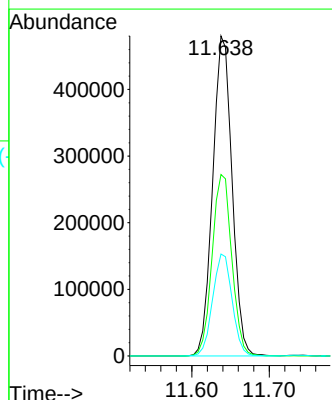
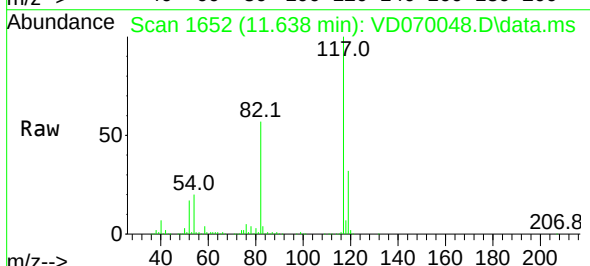
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0813SBL01

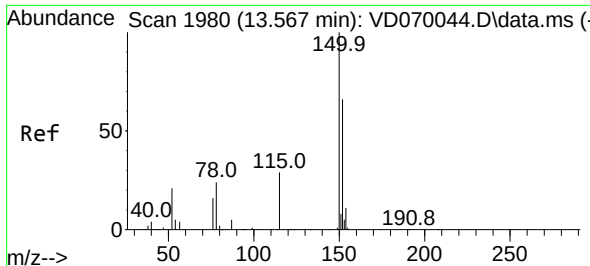
Tgt Ion: 95 Resp: 327103  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 141.6  
176 68.7 0.0 138.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD070048.D  
Acq: 13 Aug 2021 14:26

Tgt Ion: 117 Resp: 833683  
Ion Ratio Lower Upper  
117 100  
82 56.7 47.5 71.3  
119 31.8 25.1 37.7

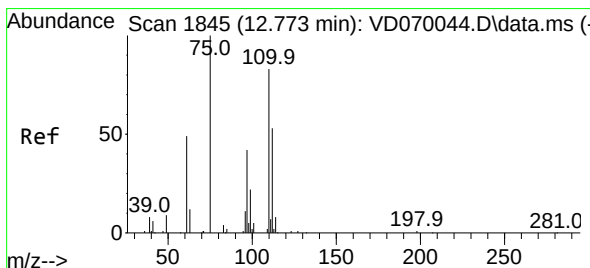
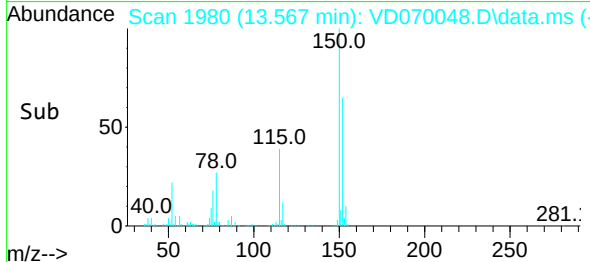
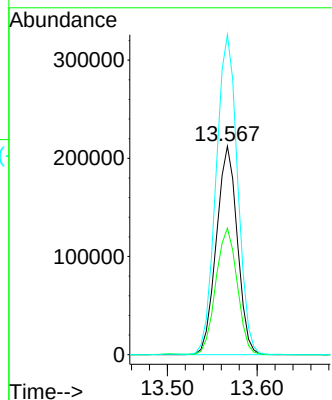
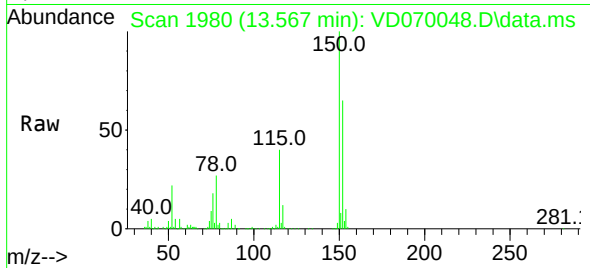




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.567 min Scan# 1980  
 Delta R.T. -0.000 min  
 Lab File: VD070048.D  
 Acq: 13 Aug 2021 14:26

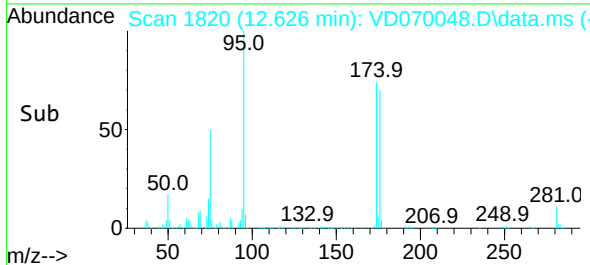
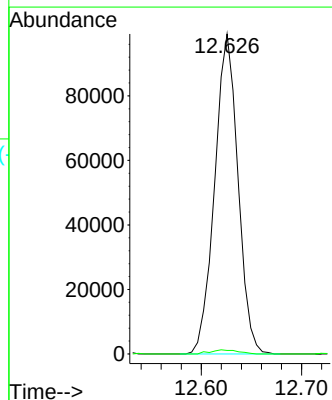
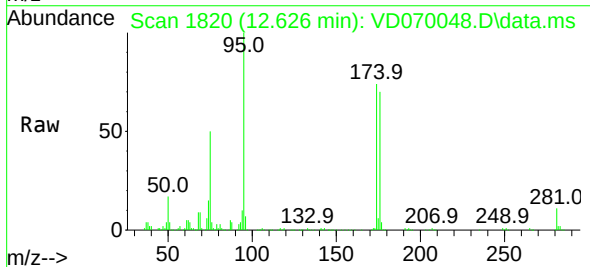
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0813SBL01

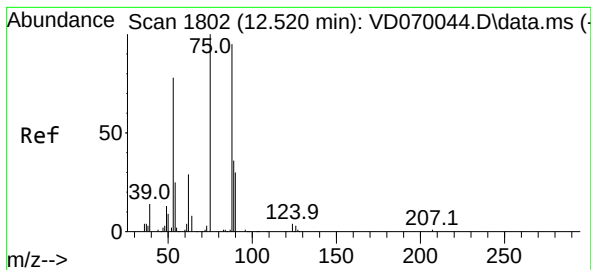
Tgt Ion:152 Resp: 343835  
 Ion Ratio Lower Upper  
 152 100  
 115 61.8 31.2 93.6  
 150 157.9 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 45.792 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. -0.147 min  
 Lab File: VD070048.D  
 Acq: 13 Aug 2021 14:26

Tgt Ion: 75 Resp: 159674  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 182.4 547.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 118.859 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD070048.D  
 Acq: 13 Aug 2021 14:26

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0813SBL01

Tgt Ion: 75 Resp: 159674  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 64.5 96.7#  
 89 0.1 33.7 50.5#

