

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD070821\  
 Data File : VD069623.D  
 Acq On : 08 Jul 2021 12:11  
 Operator : VA/SY  
 Sample : VD0708SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 09 01:00:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

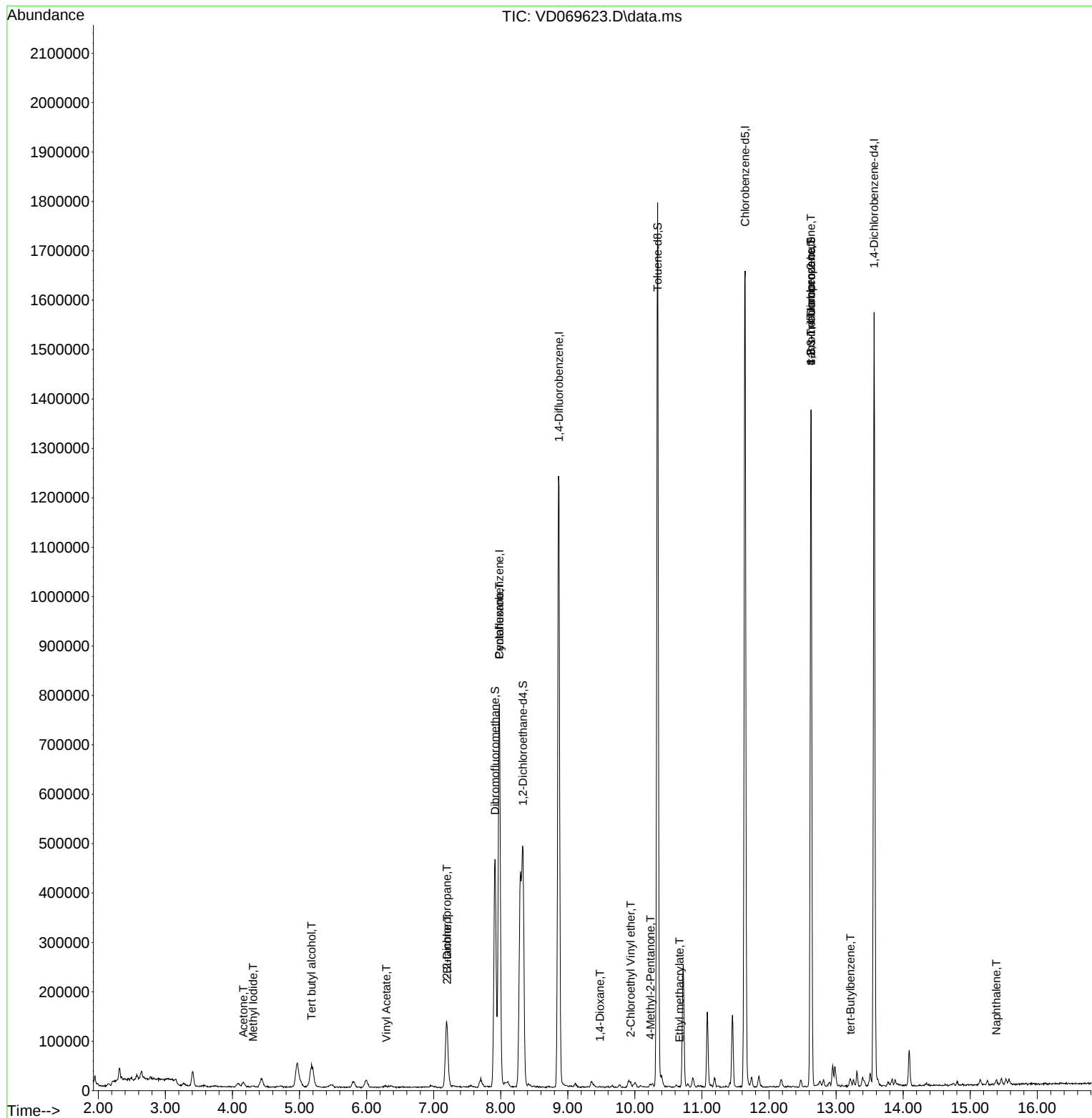
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 539979              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 1048152             | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.644         | 117  | 965054              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 389266              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 359358              | 53.390    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 106.780% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 341464              | 48.193    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 96.380%  |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 1190584             | 44.798    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 89.600%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 382269              | 43.752    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 87.500%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.785          | 94   | 4518                | Below Cal | #      | 57       |
| 10) Methyl Iodide             | 4.309          | 142  | 2281                | 4.312     | ug/l # | 92       |
| 11) Tert butyl alcohol        | 5.179          | 59   | 44687               | 101.084   | ug/l # | 87       |
| 16) Acetone                   | 4.162          | 43   | 16350               | 14.432    | ug/l   | 97       |
| 18) Methyl Acetate            | 4.715          | 43   | 242                 | Below Cal | #      | 49       |
| 20) Methylene Chloride        | 4.962          | 84   | 35910               | Below Cal |        | 90       |
| 23) Vinyl Acetate             | 6.297          | 43   | 3326                | 19.331    | ug/l # | 70       |
| 25) 2-Butanone                | 7.203          | 43   | 7894                | 5.483     | ug/l # | 64       |
| 26) 2,2-Dichloropropane       | 7.197          | 77   | 12369               | 1.268     | ug/l # | 59       |
| 31) Cyclohexane               | 7.979          | 56   | 16212               | 1.789     | ug/l # | 6        |
| 49) 1,4-Dioxane               | 9.479          | 88   | 193                 | 4.914     | ug/l # | 35       |
| 51) 4-Methyl-2-Pentanone      | 10.232         | 43   | 4197                | 1.151     | ug/l # | 78       |
| 56) Ethyl methacrylate        | 10.667         | 69   | 737                 | 2.687     | ug/l # | 70       |
| 58) 2-Chloroethyl Vinyl ether | 9.938          | 63   | 3517                | 11.573    | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 197158              | 51.597    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 197158              | 128.830   | ug/l # | 13       |
| 83) tert-Butylbenzene         | 13.214         | 119  | 5452                | 2.251     | ug/l   | 87       |
| 95) Naphthalene               | 15.391         | 128  | 7840                | 3.958     | ug/l # | 94       |
| -----                         |                |      |                     |           |        |          |

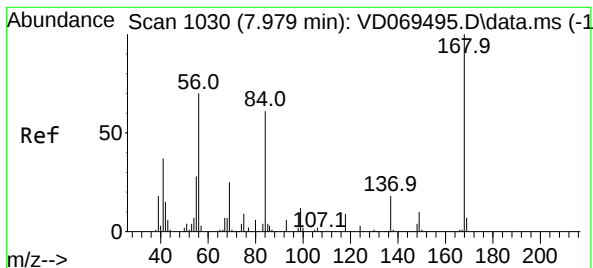
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD070821\  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jul 09 01:00:52 2021  
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Quant Title : SW846 8260  
QLast Update : Tue Jun 22 04:33:24 2021  
Response via : Initial Calibration

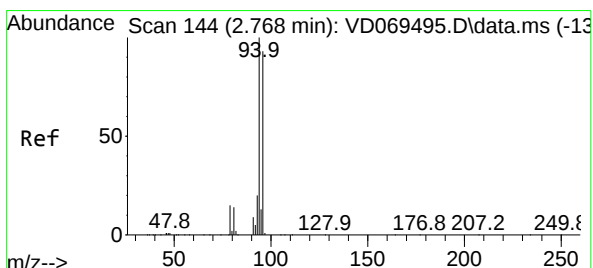
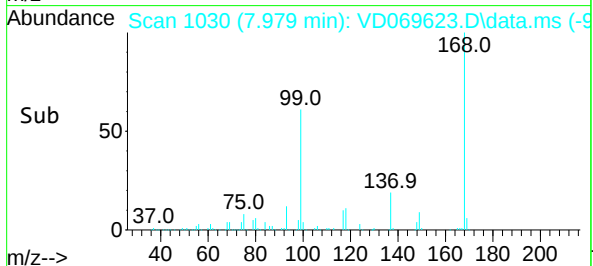
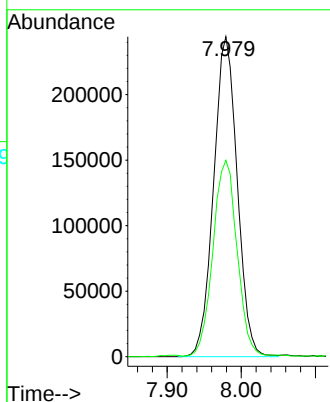
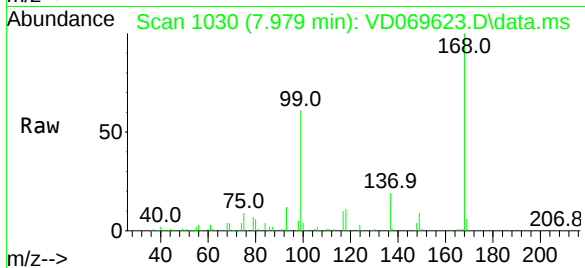




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

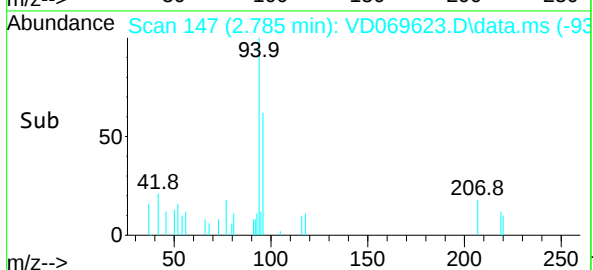
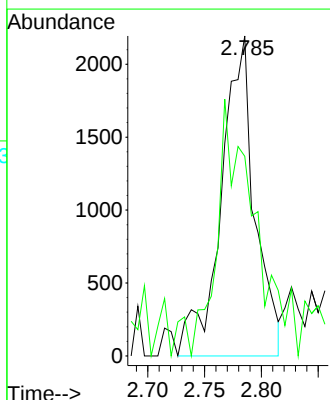
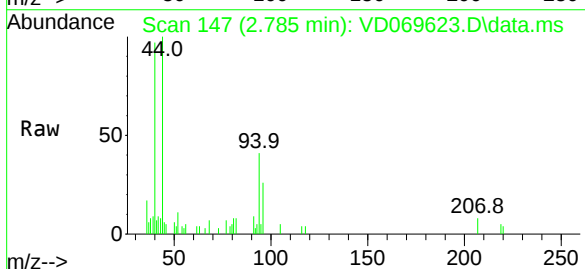
Instrument :  
MSVOA\_D  
ClientSampled :

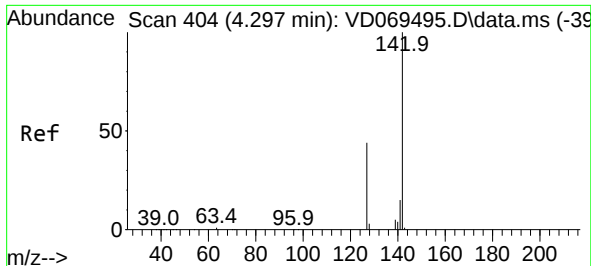
Tgt Ion:168 Resp: 539979  
Ion Ratio Lower Upper  
168 100  
99 61.0 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.785 min Scan# 147  
Delta R.T. 0.017 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

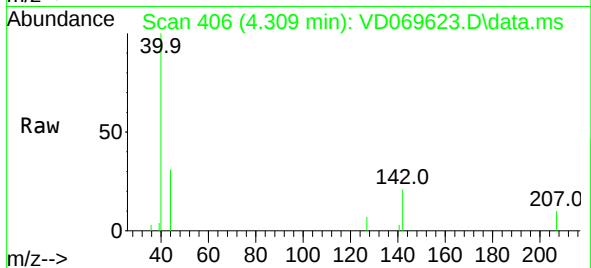
Tgt Ion: 94 Resp: 4518  
Ion Ratio Lower Upper  
94 100  
96 51.7 74.6 111.8#



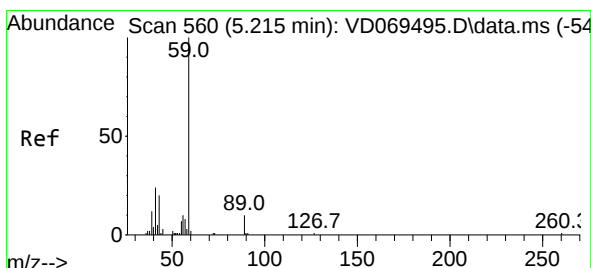
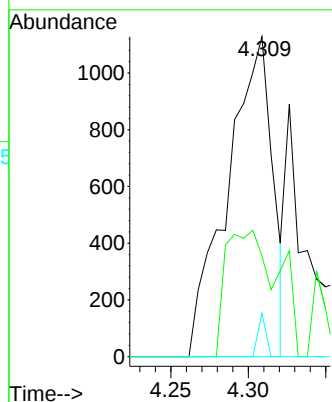
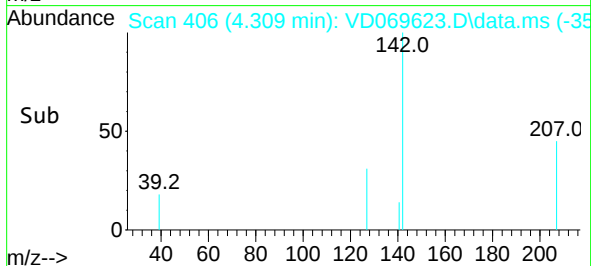


#10  
Methyl Iodide  
Concen: 4.312 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.012 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

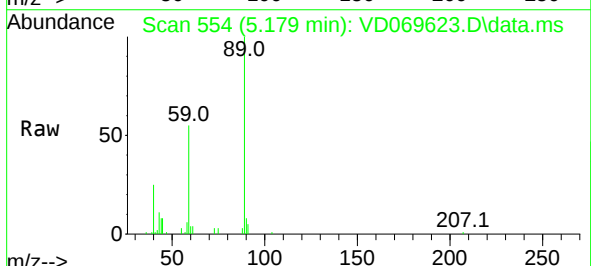
Instrument :  
MSVOA\_D  
ClientSampleId :



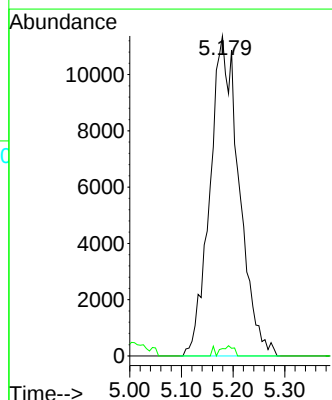
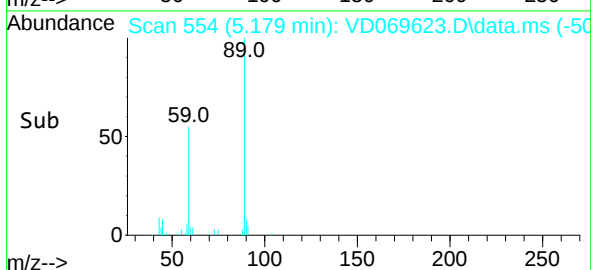
Tgt Ion:142 Resp: 2281  
Ion Ratio Lower Upper  
142 100  
127 45.7 36.5 54.7  
141 2.4 12.0 18.0#

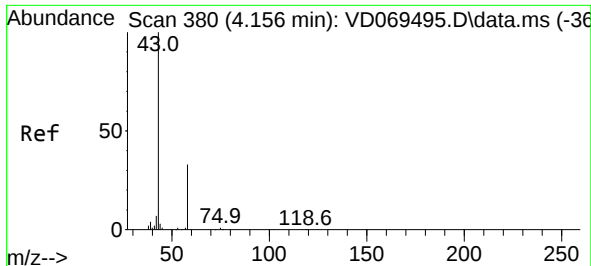


#11  
Tert butyl alcohol  
Concen: 101.084 ug/l  
RT: 5.179 min Scan# 554  
Delta R.T. -0.036 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11



Tgt Ion: 59 Resp: 44687  
Ion Ratio Lower Upper  
59 100  
57 1.3 4.6 7.0#

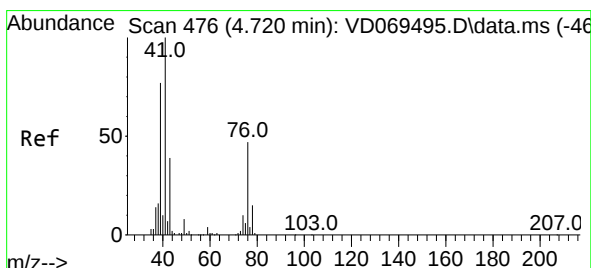
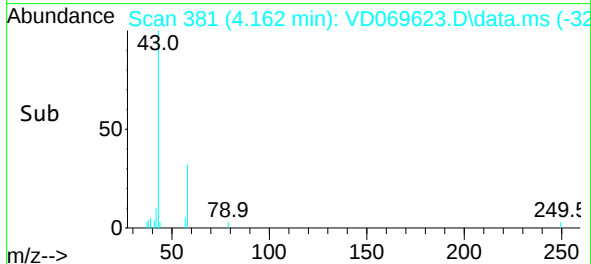
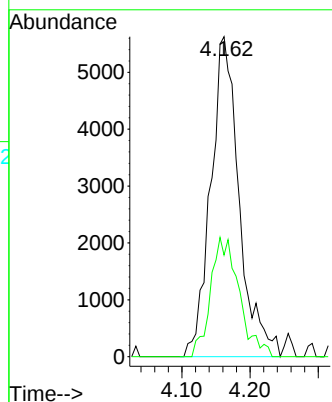
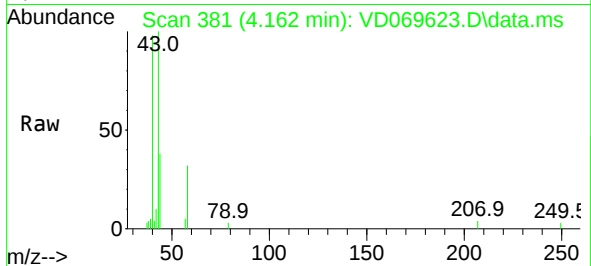




#16  
Acetone  
Concen: 14.432 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

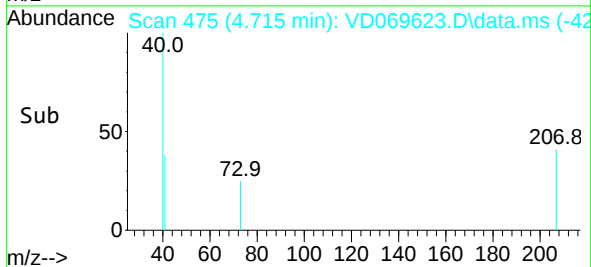
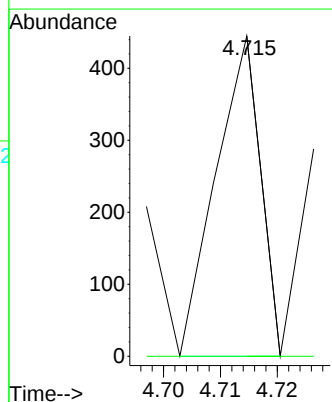
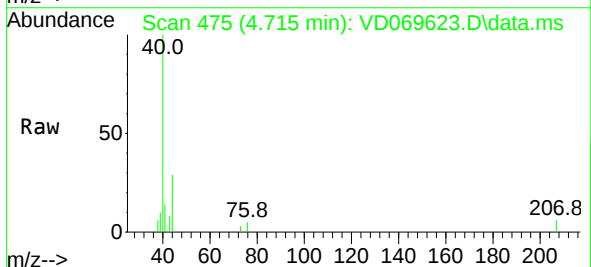
Instrument :  
MSVOA\_D  
ClientSampleId :

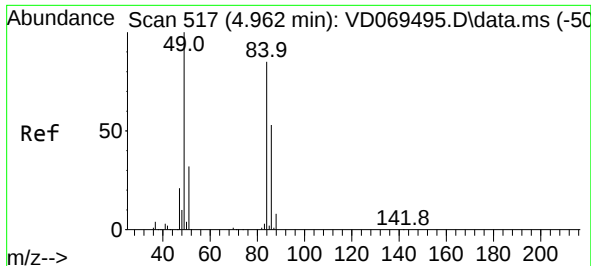
Tgt Ion: 43 Resp: 16350  
Ion Ratio Lower Upper  
43 100  
58 31.7 26.8 40.2



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.715 min Scan# 475  
Delta R.T. -0.005 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Tgt Ion: 43 Resp: 242  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#

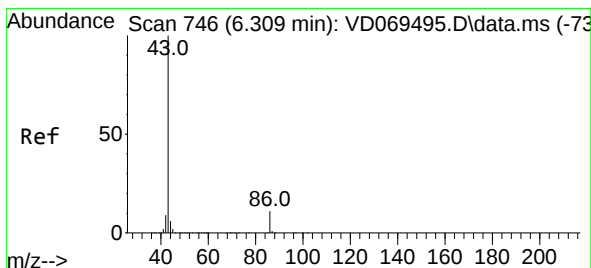
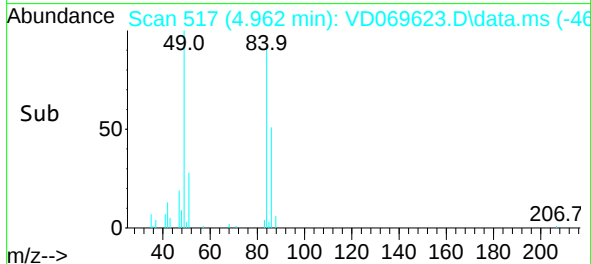
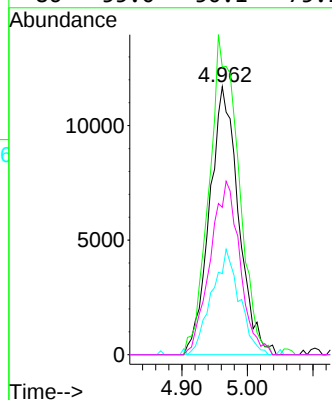
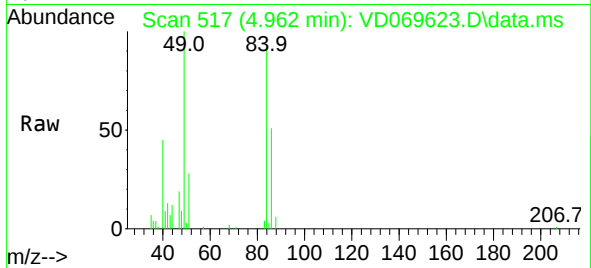




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

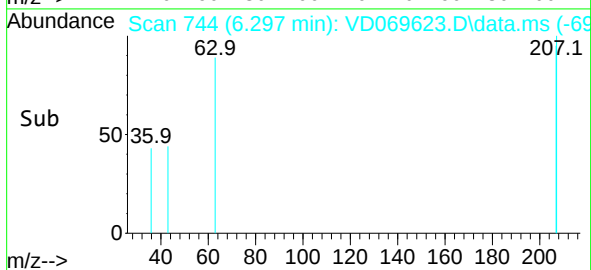
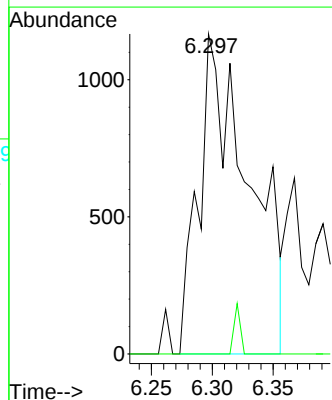
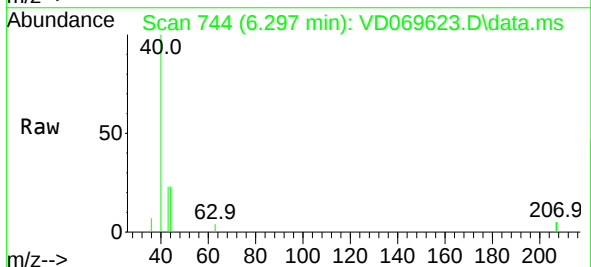
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MSVOA\_D  
ClientSampled :

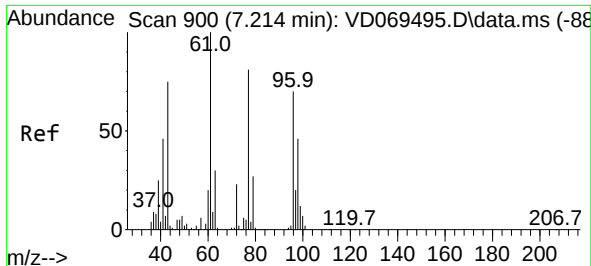
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 35910 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 107.3 | 94.0  | 141.0 |
| 51       | 30.3  | 29.7  | 44.5  |
| 86       | 55.0  | 50.1  | 75.1  |



#23  
Vinyl Acetate  
Concen: 19.331 ug/l  
RT: 6.297 min Scan# 744  
Delta R.T. -0.012 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3326  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 9.1   | 13.7# |

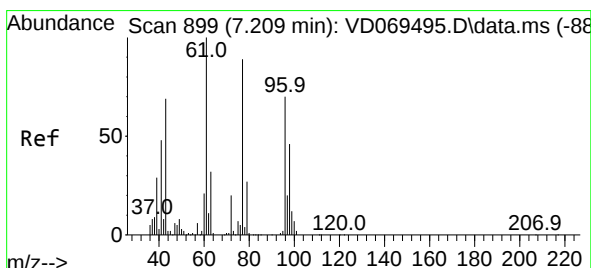
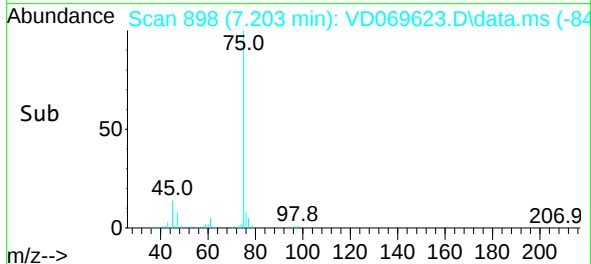
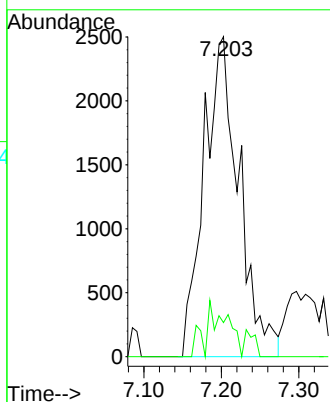
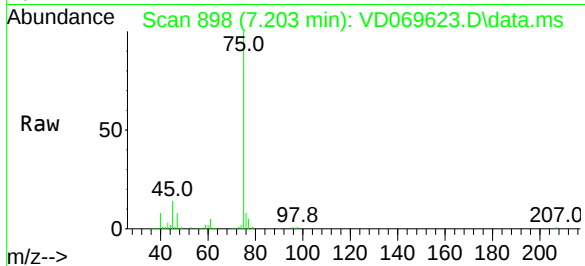




#25  
2-Butanone  
Concen: 5.483 ug/l  
RT: 7.203 min Scan# 898  
Delta R.T. -0.012 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

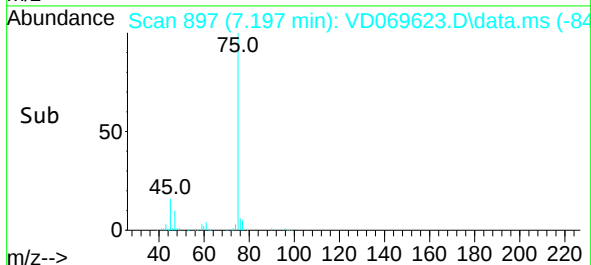
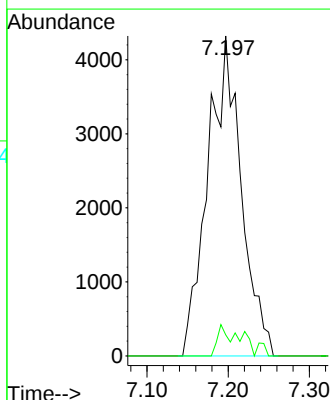
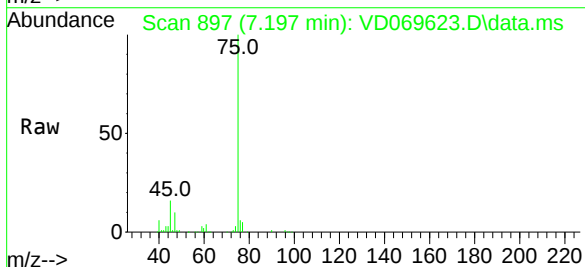
Instrument :  
MSVOA\_D  
ClientSampled :

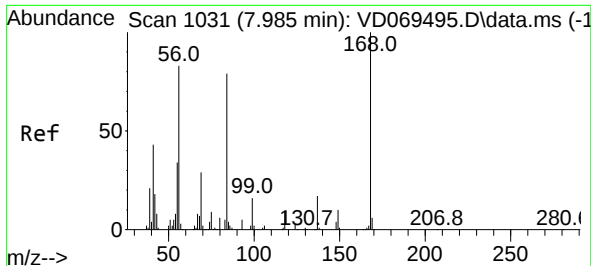
Tgt Ion: 43 Resp: 7894  
Ion Ratio Lower Upper  
43 100  
72 10.7 24.3 36.5#



#26  
2,2-Dichloropropane  
Concen: 1.268 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.012 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Tgt Ion: 77 Resp: 12369  
Ion Ratio Lower Upper  
77 100  
97 3.1 11.5 34.5#

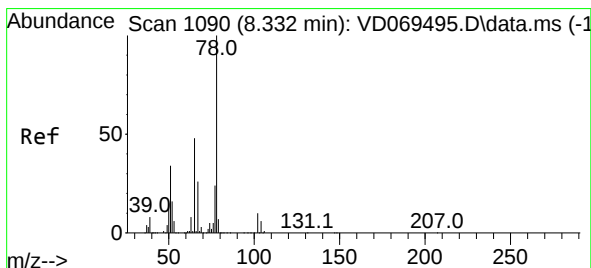
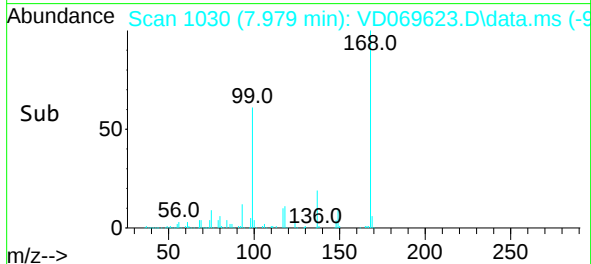
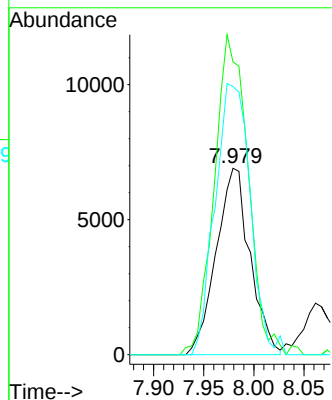
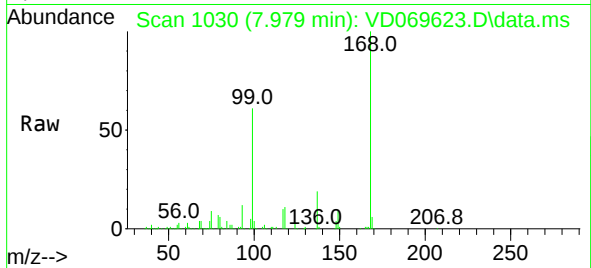




#31  
Cyclohexane  
Concen: 1.789 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

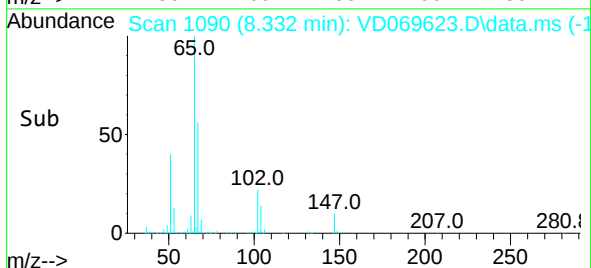
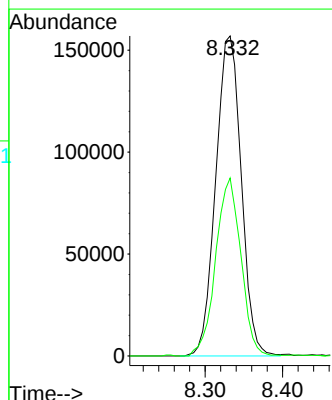
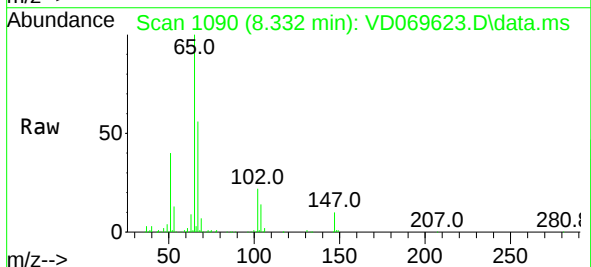
Instrument :  
MSVOA\_D  
ClientSampled :

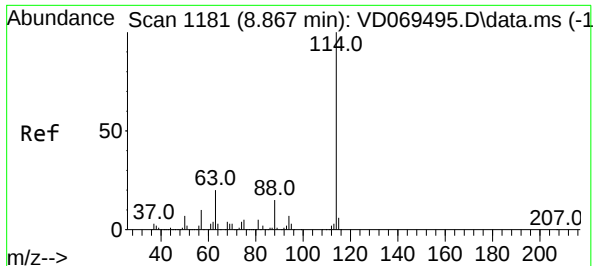
Tgt Ion: 56 Resp: 16212  
Ion Ratio Lower Upper  
56 100  
69 156.9 28.0 42.0#  
84 143.8 75.7 113.5#



#33  
1,2-Dichloroethane-d4  
Concen: 53.390 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

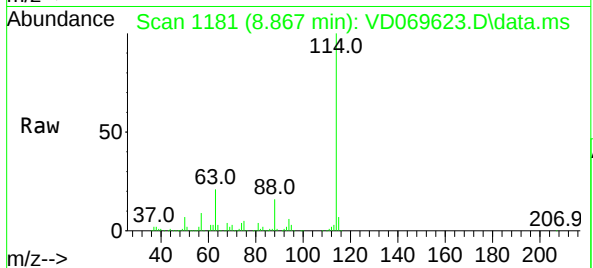
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Ion Ratio Lower Upper  
65 100  
67 54.9 0.0 105.6



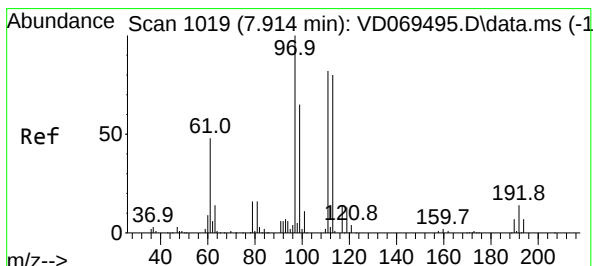
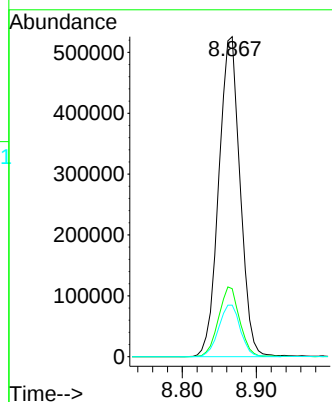
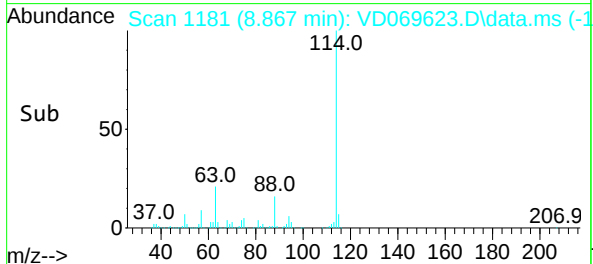


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

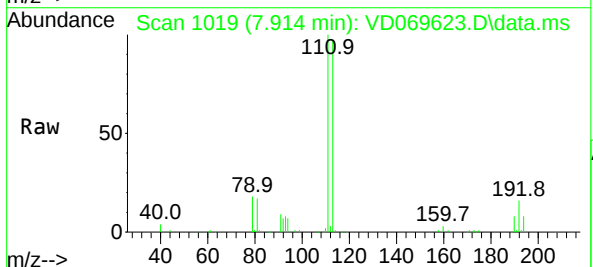
Instrument :  
MSVOA\_D  
ClientSampled :



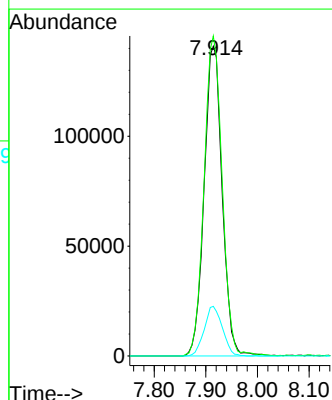
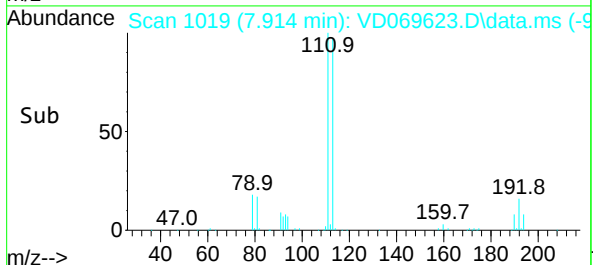
Tgt Ion:114 Resp: 1048152  
Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 39.6  
88 16.1 0.0 29.8

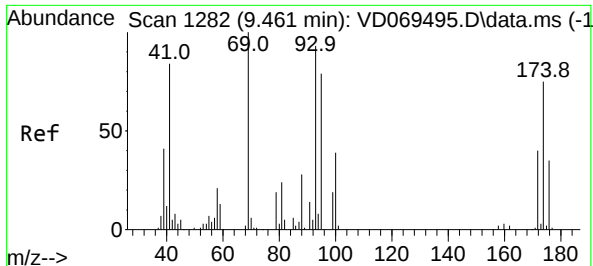


#35  
Dibromofluoromethane  
Concen: 48.193 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11



Tgt Ion:113 Resp: 341464  
Ion Ratio Lower Upper  
113 100  
111 103.8 81.8 122.8  
192 16.1 13.8 20.6

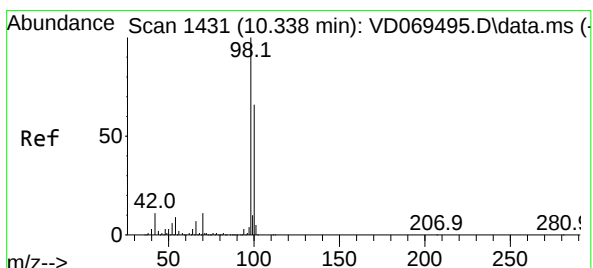
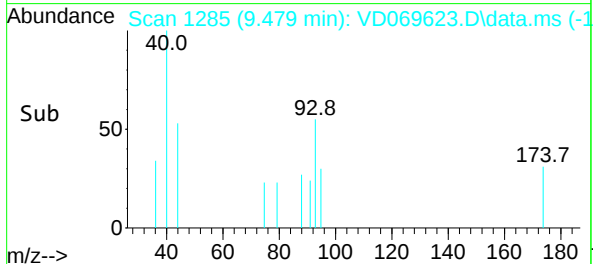
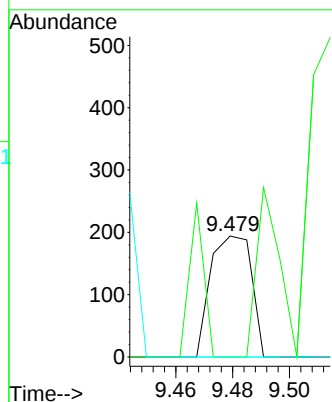
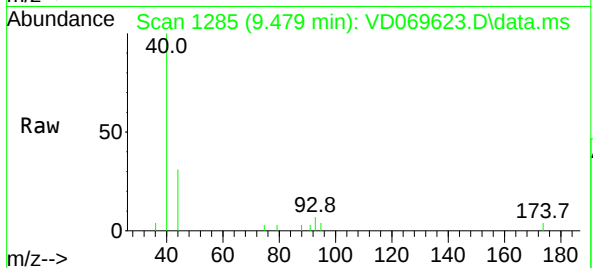




#49  
1,4-Dioxane  
Concen: 4.914 ug/l  
RT: 9.479 min Scan# 1285  
Delta R.T. 0.018 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

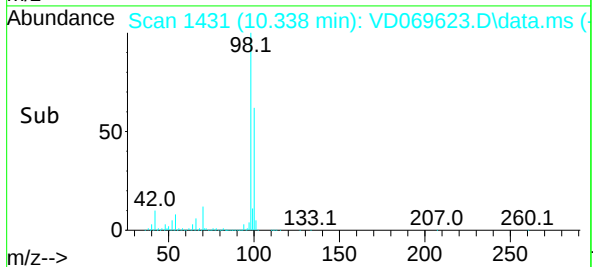
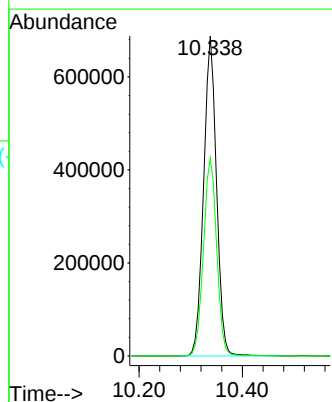
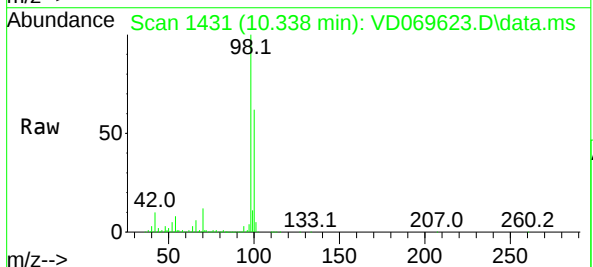
Instrument :  
MSVOA\_D  
ClientSampled :

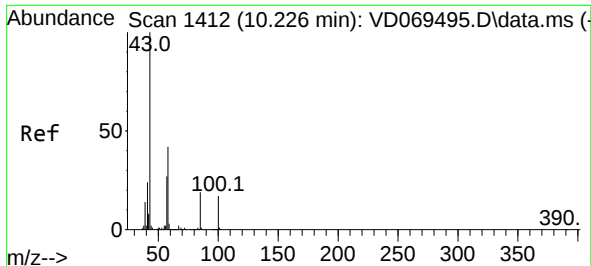
Tgt Ion: 88 Resp: 193  
Ion Ratio Lower Upper  
88 100  
43 45.1 26.5 39.7#  
58 0.0 56.0 84.0#



#50  
Toluene-d8  
Concen: 44.798 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Tgt Ion: 98 Resp: 1190584  
Ion Ratio Lower Upper  
98 100  
100 63.6 52.3 78.5

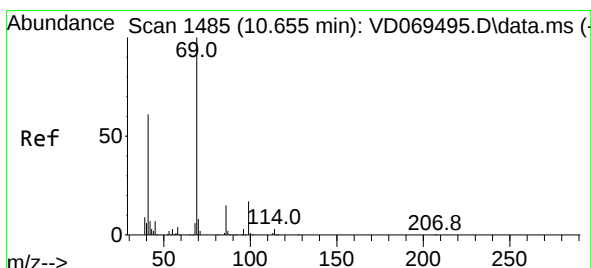
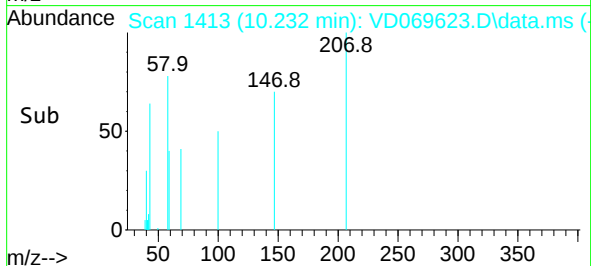
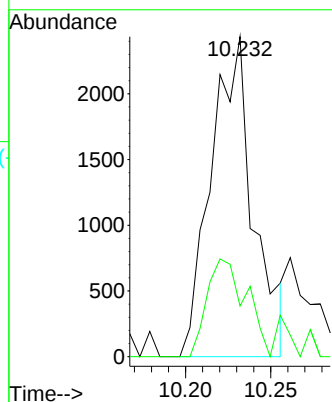
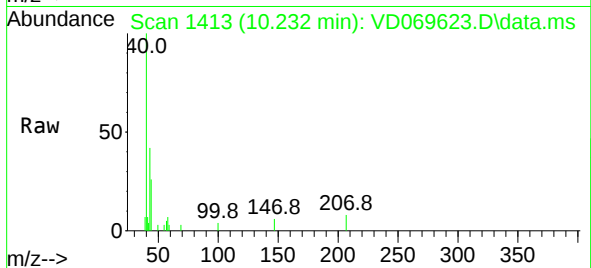




#51  
4-Methyl-2-Pentanone  
Concen: 1.151 ug/l  
RT: 10.232 min Scan# 1413  
Delta R.T. 0.006 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

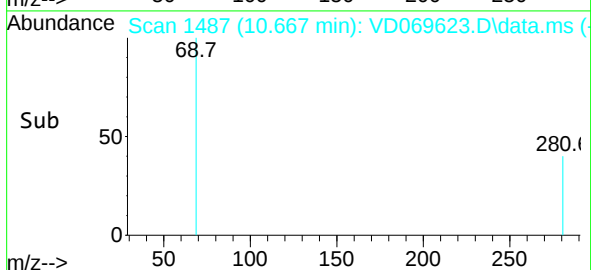
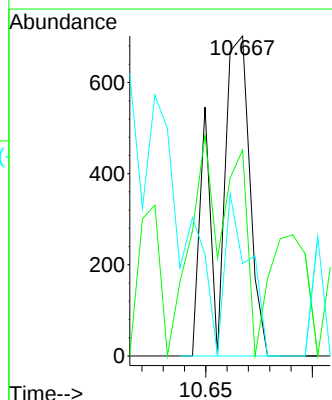
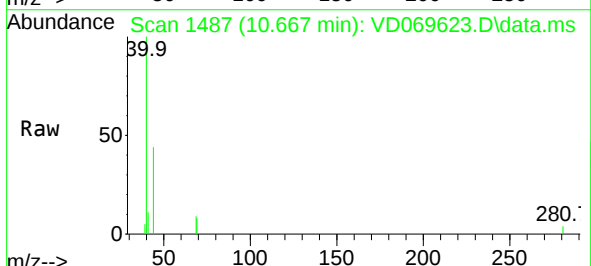
Instrument :  
MSVOA\_D  
ClientSampled :

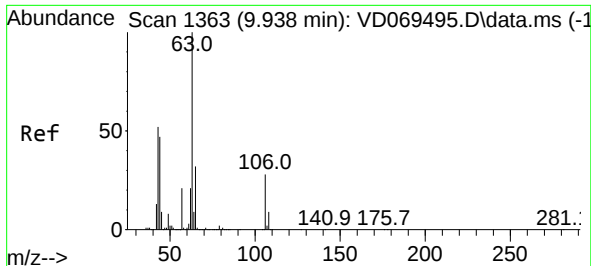
Tgt Ion: 43 Resp: 4197  
Ion Ratio Lower Upper  
43 100  
58 28.3 33.6 50.4#



#56  
Ethyl methacrylate  
Concen: 2.687 ug/l  
RT: 10.667 min Scan# 1487  
Delta R.T. 0.012 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Tgt Ion: 69 Resp: 737  
Ion Ratio Lower Upper  
69 100  
41 94.7 49.4 74.0#  
39 37.3 26.9 40.3

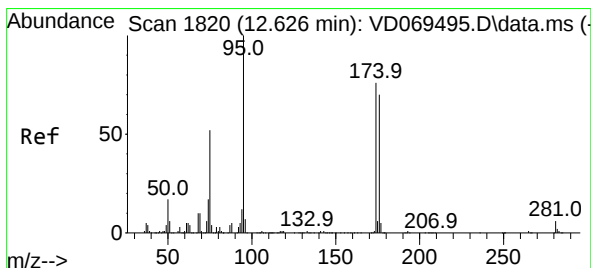
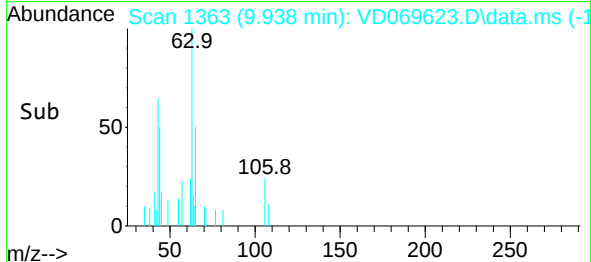
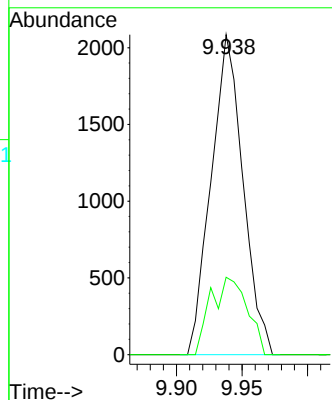
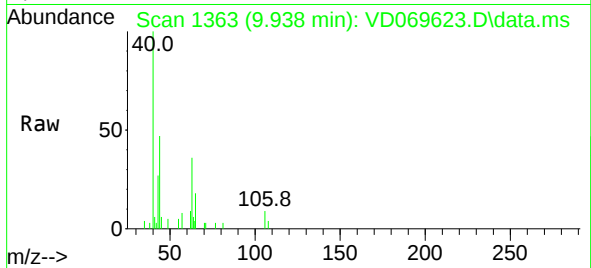




#58  
2-Chloroethyl Vinyl ether  
Concen: 11.573 ug/l  
RT: 9.938 min Scan# 1363  
Delta R.T. -0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

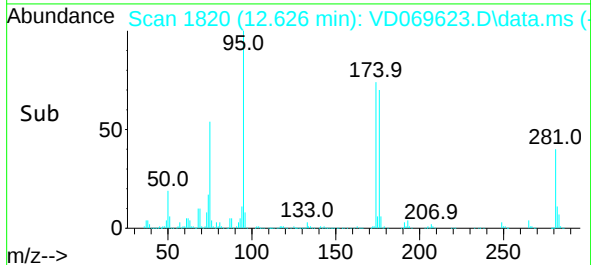
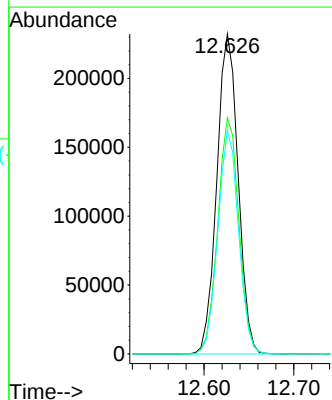
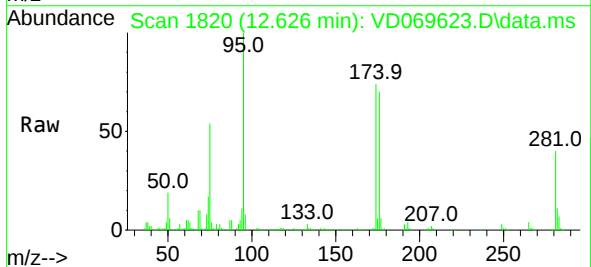
Instrument :  
MSVOA\_D  
ClientSampled :

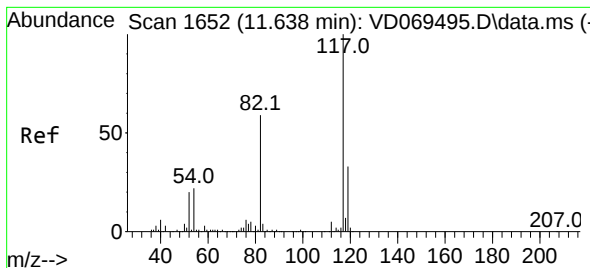
Tgt Ion: 63 Resp: 3517  
Ion Ratio Lower Upper  
63 100  
106 27.8 22.2 33.2



#62  
4-Bromofluorobenzene  
Concen: 43.752 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Tgt Ion: 95 Resp: 382269  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 148.0  
176 68.1 0.0 139.8

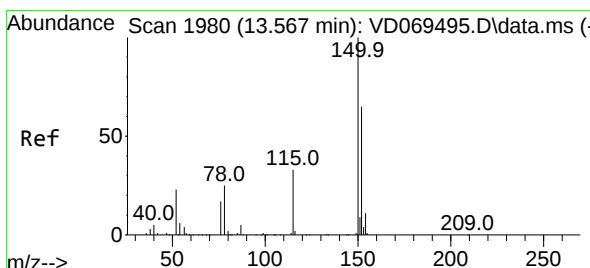
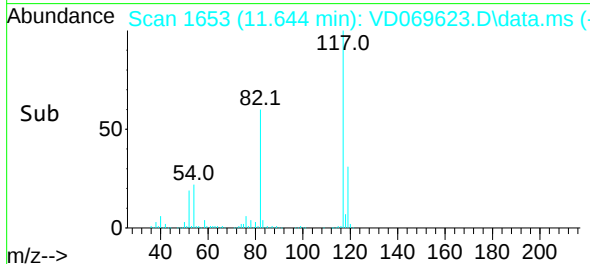
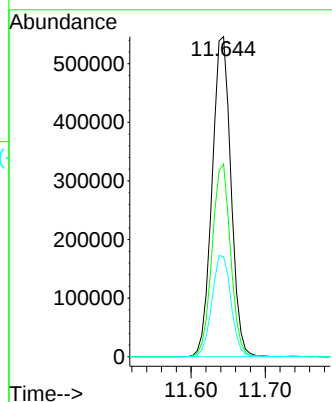
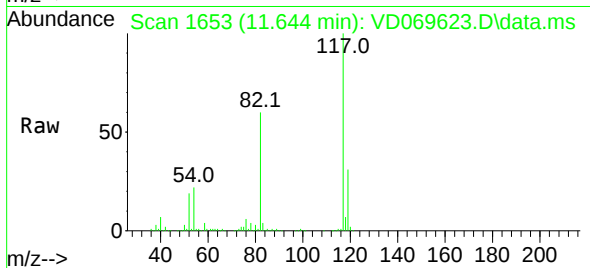




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. 0.006 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

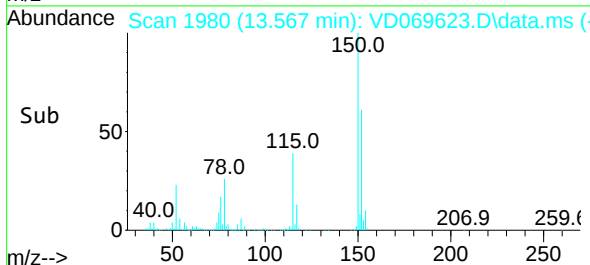
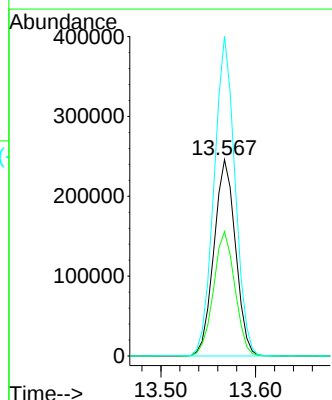
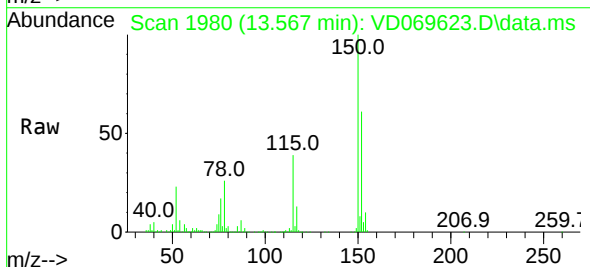
Instrument :  
MSVOA\_D  
ClientSampleId :

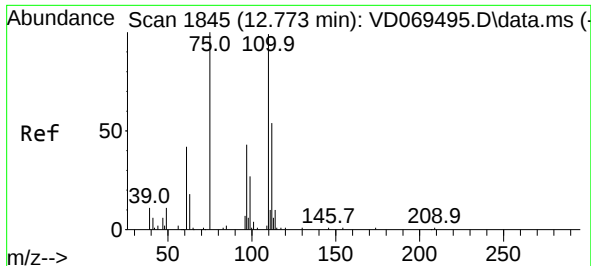
Tgt Ion:117 Resp: 965054  
Ion Ratio Lower Upper  
117 100  
82 60.3 46.8 70.2  
119 31.3 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Tgt Ion:152 Resp: 389266  
Ion Ratio Lower Upper  
152 100  
115 62.8 31.7 95.1  
150 158.2 0.0 350.8

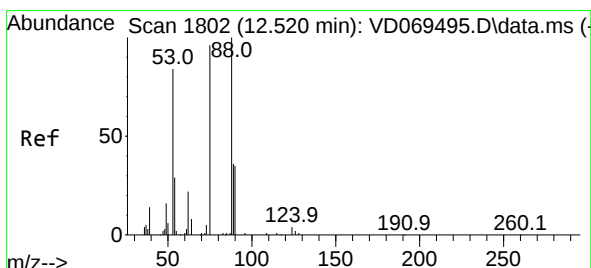
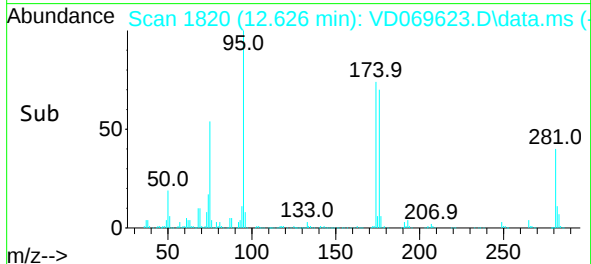
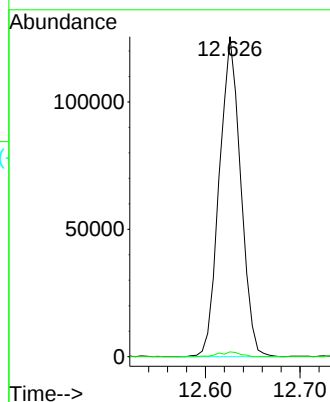
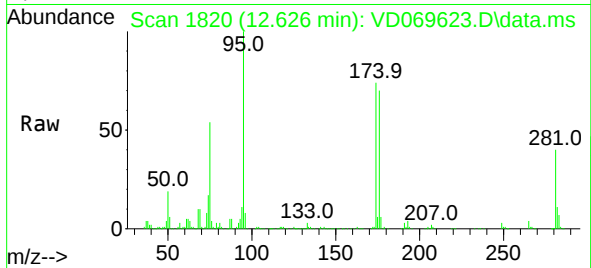




#76  
1,2,3-Trichloropropane  
Concen: 51.597 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

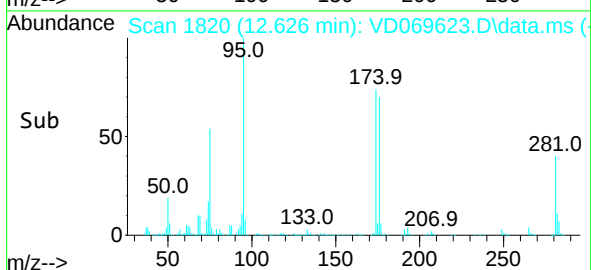
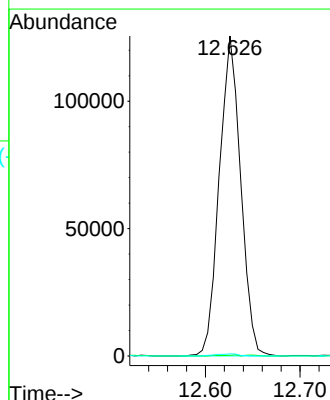
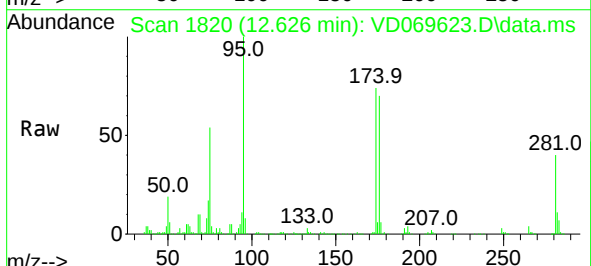
Instrument :  
MSVOA\_D  
ClientSampleId :

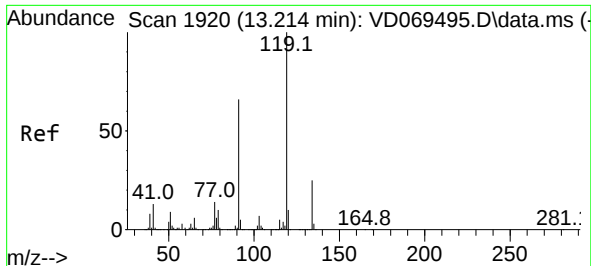
Tgt Ion: 75 Resp: 197158  
Ion Ratio Lower Upper  
75 100  
77 1.5 162.6 487.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 128.830 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Tgt Ion: 75 Resp: 197158  
Ion Ratio Lower Upper  
75 100  
53 0.2 74.6 112.0#  
89 0.7 35.3 52.9#

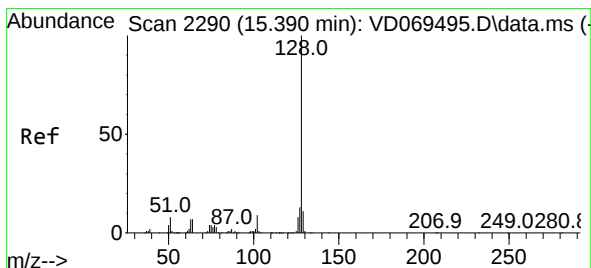
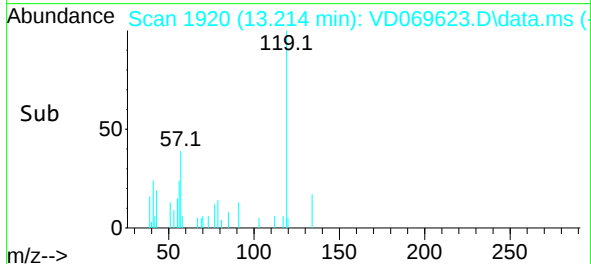
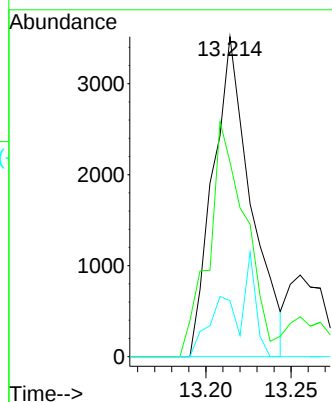
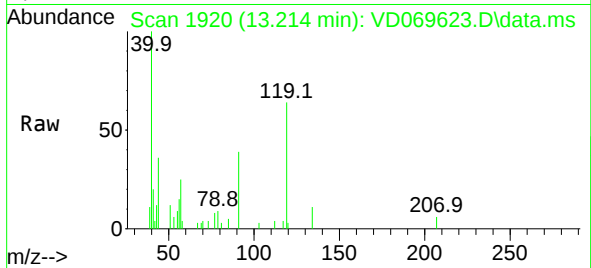




#83  
tert-Butylbenzene  
Concen: 2.251 ug/l  
RT: 13.214 min Scan# 1920  
Delta R.T. 0.000 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

Instrument :  
MSVOA\_D  
ClientSampleId :

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 119   | Resp: | 5452 |
| Ion Ratio | Lower | Upper |      |
| 119       | 100   |       |      |
| 91        | 72.3  | 32.5  | 97.4 |
| 134       | 13.7  | 12.9  | 38.7 |



#95  
Naphthalene  
Concen: 3.958 ug/l  
RT: 15.391 min Scan# 2290  
Delta R.T. 0.001 min  
Lab File: VD069623.D  
Acq: 08 Jul 2021 12:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 7840  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 16.3  | 10.6  | 16.0# |
| 129       | 8.9   | 8.7   | 13.1  |

