

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX033121\  
 Data File : VX021688.D  
 Acq On : 31 Mar 2021 16:16  
 Operator : JC/MD  
 Sample : M1842-13  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 01 03:26:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 24 12:25:26 2021  
 Response via : Initial Calibration

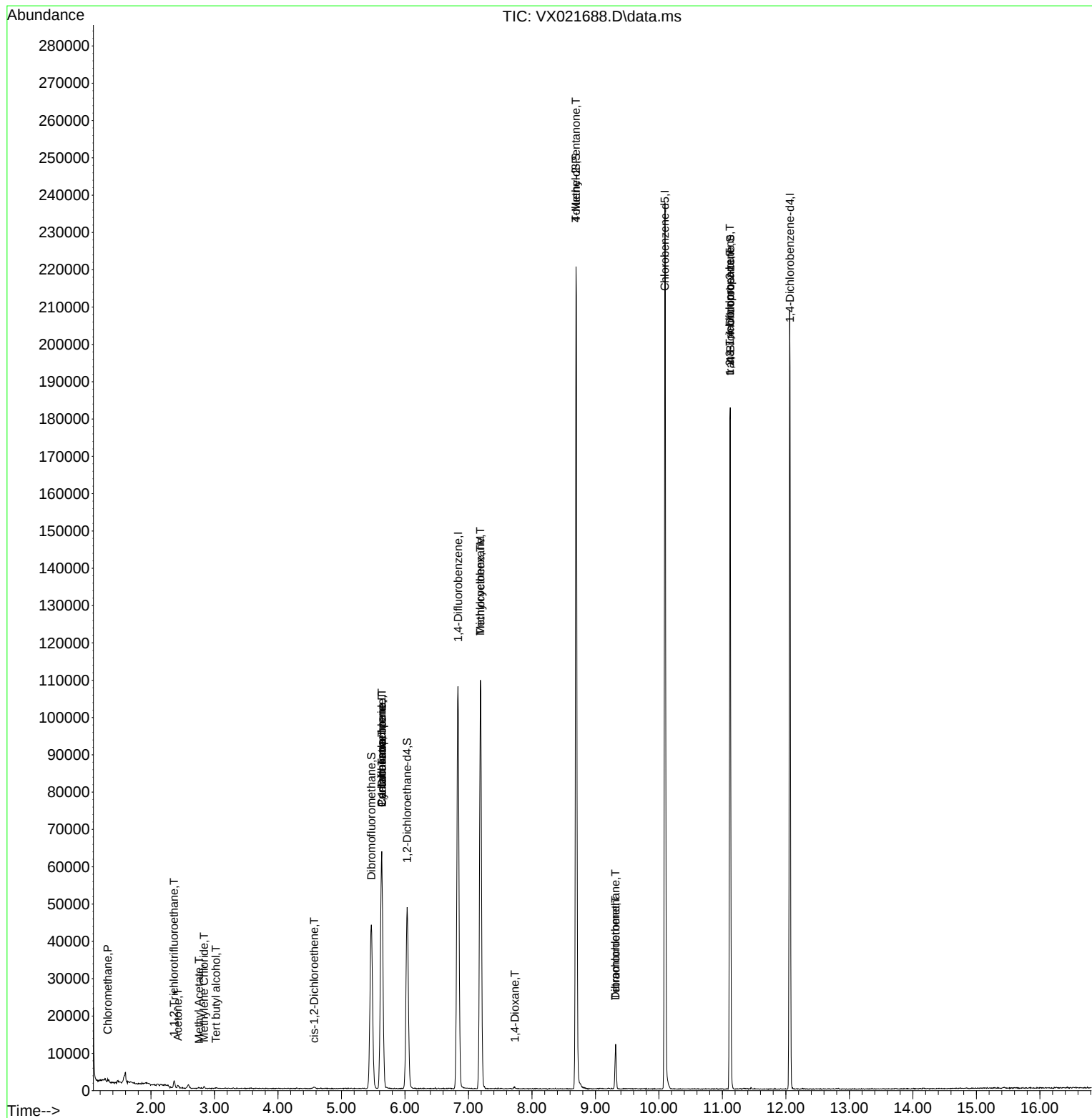
| Compound                      | R.T.   | QIon  | Response | Conc     | Units     | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-----------|----------|
| -----                         |        |       |          |          |           |          |
| Internal Standards            |        |       |          |          |           |          |
| 1) Pentafluorobenzene         | 5.635  | 168   | 53569    | 50.00    | ug/l      | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.835  | 114   | 101066   | 50.00    | ug/l      | 0.00     |
| 63) Chlorobenzene-d5          | 10.094 | 117   | 100500   | 50.00    | ug/l      | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.065 | 152   | 40236    | 50.00    | ug/l      | 0.00     |
| System Monitoring Compounds   |        |       |          |          |           |          |
| 33) 1,2-Dichloroethane-d4     | 6.035  | 65    | 48099    | 53.96    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 107.92% |          |
| 35) Dibromofluoromethane      | 5.470  | 113   | 37001    | 51.54    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 103.08% |          |
| 50) Toluene-d8                | 8.694  | 98    | 126449   | 49.43    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 98.86%  |          |
| 62) 4-Bromofluorobenzene      | 11.124 | 95    | 48511    | 48.77    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 97.54%  |          |
| Target Compounds              |        |       |          |          |           |          |
|                               |        |       |          |          |           | Qvalue   |
| 3) Chloromethane              | 1.316  | 50    | 1299     | 1.96     | ug/l      | 93       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.364  | 101   | 720      | 1.31     | ug/l      | 97       |
| 11) Tert butyl alcohol        | 3.023  | 59    | 120      | 0.81     | ug/l #    | 73       |
| 16) Acetone                   | 2.422  | 43    | 839      | 2.49     | ug/l      | 96       |
| 18) Methyl Acetate            | 2.758  | 43    | 275      | 0.28     | ug/l #    | 47       |
| 20) Methylene Chloride        | 2.834  | 84    | 195      | 0.30     | ug/l #    | 83       |
| 27) cis-1,2-Dichloroethene    | 4.570  | 96    | 229      | 0.33     | ug/l      | 79       |
| 31) Cyclohexane               | 5.635  | 56    | 1530     | 1.56     | ug/l #    | 12       |
| 36) 1,1-Dichloropropene       | 5.635  | 75    | 4968     | 5.02     | ug/l #    | 48       |
| 38) Carbon Tetrachloride      | 5.635  | 117   | 5558     | 5.22     | ug/l #    | 17       |
| 39) Methylcyclohexane         | 7.188  | 83    | 566      | 0.52     | ug/l #    | 1        |
| 44) Trichloroethene           | 7.188  | 130   | 37866    | 51.03    | ug/l      | 90       |
| 49) 1,4-Dioxane               | 7.729  | 88    | 299      | 16.84    | ug/l #    | 65       |
| 51) 4-Methyl-2-Pentanone      | 8.694  | 43    | 723      | 0.63     | ug/l #    | 1        |
| 60) Dibromochloromethane      | 9.317  | 129   | 2033     | 2.48     | ug/l #    | 11       |
| 64) Tetrachloroethene         | 9.317  | 164   | 2073     | 3.08     | ug/l      | 95       |
| 76) 1,2,3-Trichloropropane    | 11.118 | 75    | 26992    | 28.82    | ug/l #    | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.118 | 75    | 26992    | 87.77    | ug/l #    | 12       |
| -----                         |        |       |          |          |           |          |

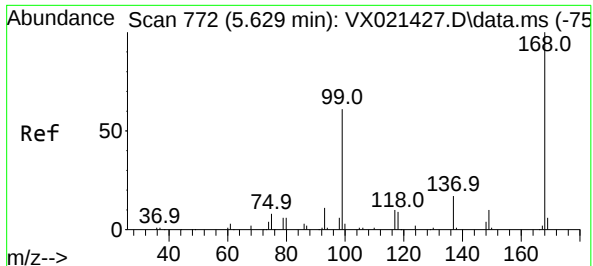
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Apr 01 03:26:49 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 24 12:25:26 2021  
Response via : Initial Calibration

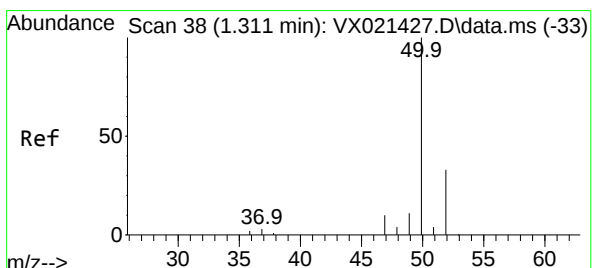
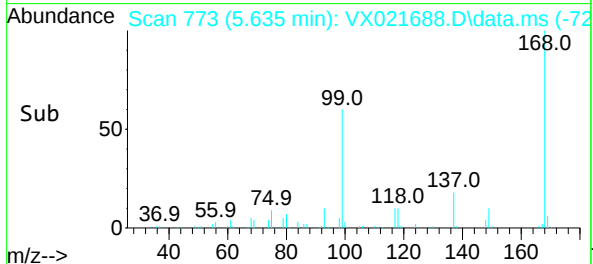
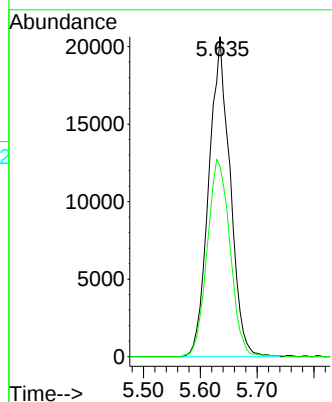
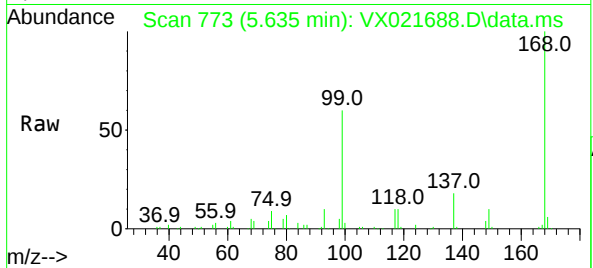




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.635 min Scan# 773  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

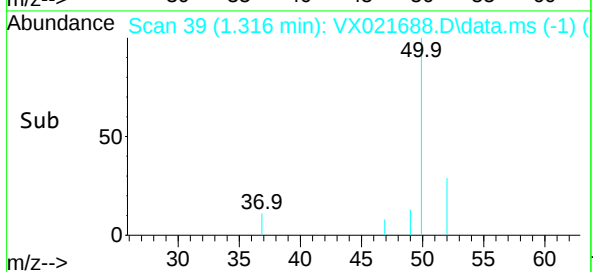
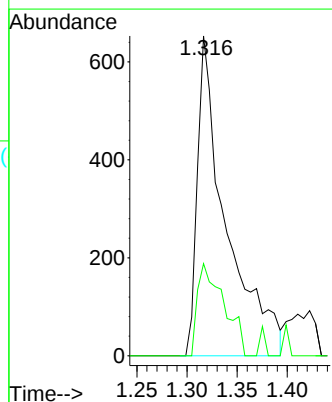
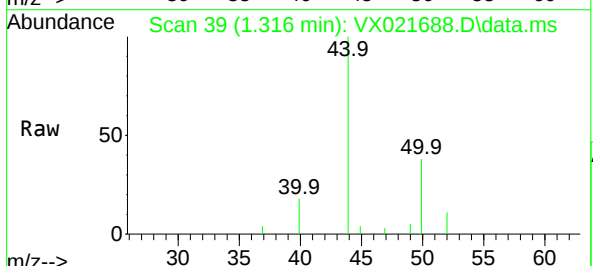
Instrument :  
MSVOA\_X  
ClientSampled :

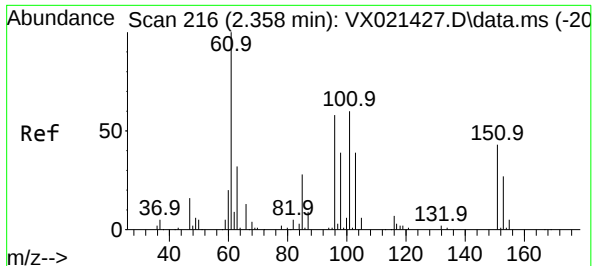
Tgt Ion:168 Resp: 53569  
Ion Ratio Lower Upper  
168 100  
99 59.5 45.8 68.6



#3  
Chloromethane  
Concen: 1.96 ug/l  
RT: 1.316 min Scan# 39  
Delta R.T. 0.005 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Tgt Ion: 50 Resp: 1299  
Ion Ratio Lower Upper  
50 100  
52 28.8 26.4 39.6

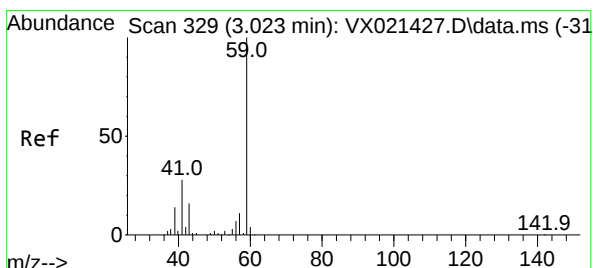
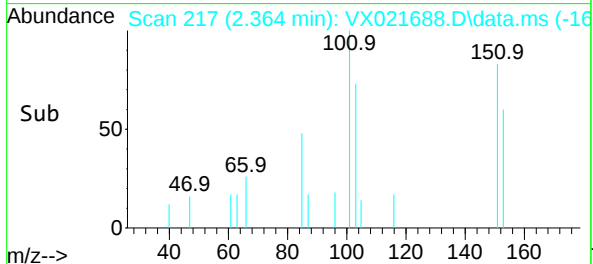
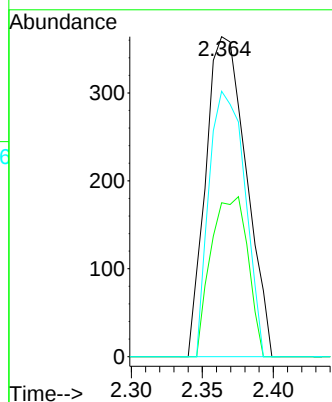
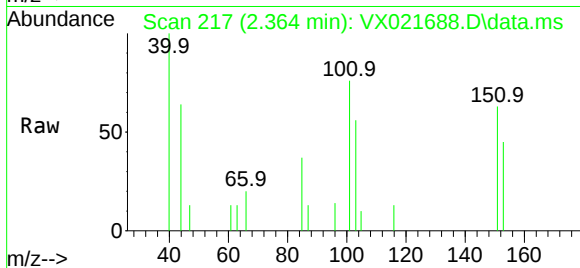




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.31 ug/l  
RT: 2.364 min Scan# 217  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

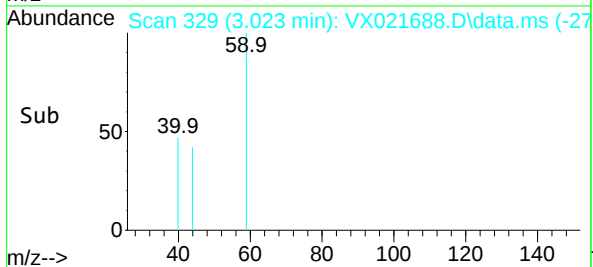
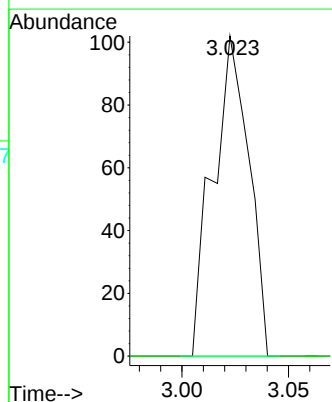
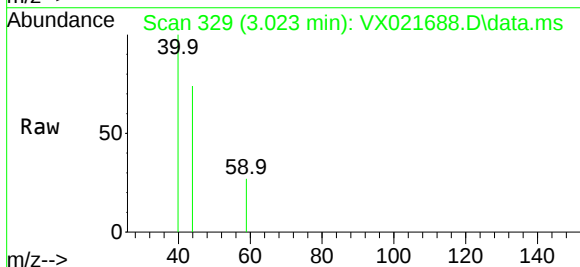
Instrument :  
MSVOA\_X  
ClientSampled :

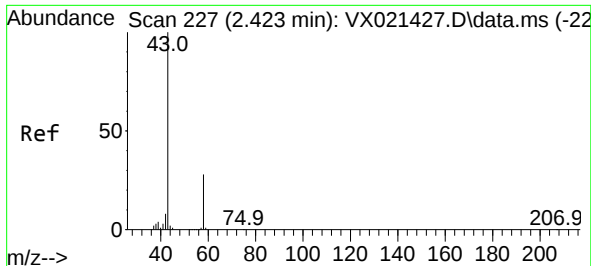
Tgt Ion:101 Resp: 720  
Ion Ratio Lower Upper  
101 100  
85 45.4 34.9 52.3  
151 73.6 61.4 92.2



#11  
Tert butyl alcohol  
Concen: 0.81 ug/l  
RT: 3.023 min Scan# 329  
Delta R.T. -0.000 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Tgt Ion: 59 Resp: 120  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

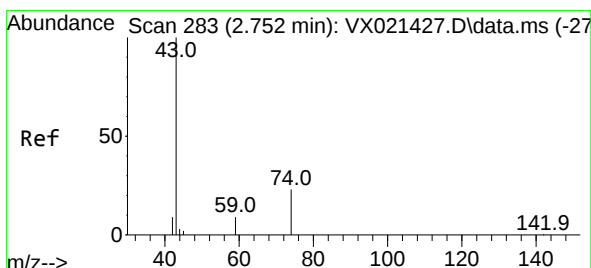
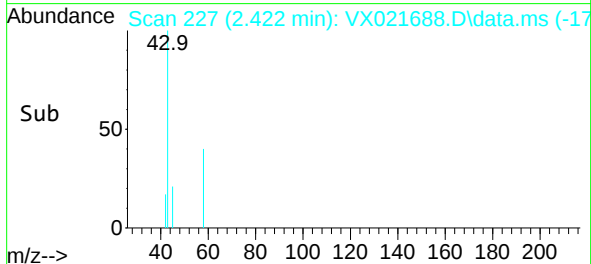
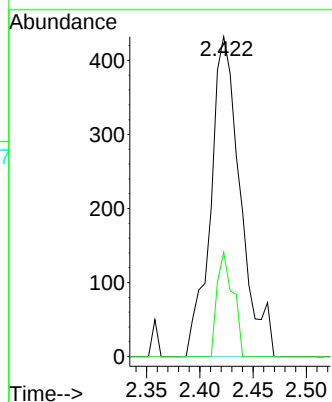
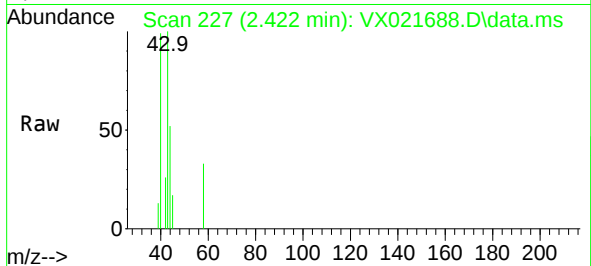




#16  
Acetone  
Concen: 2.49 ug/l  
RT: 2.422 min Scan# 227  
Delta R.T. -0.001 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

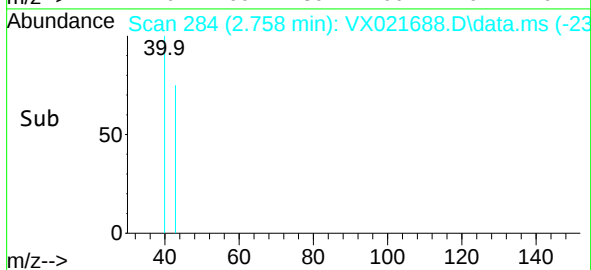
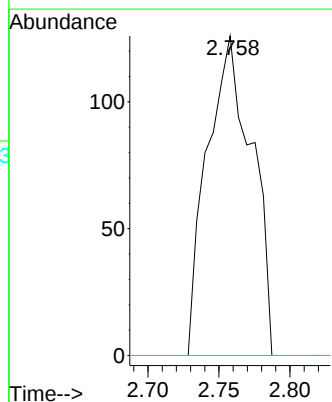
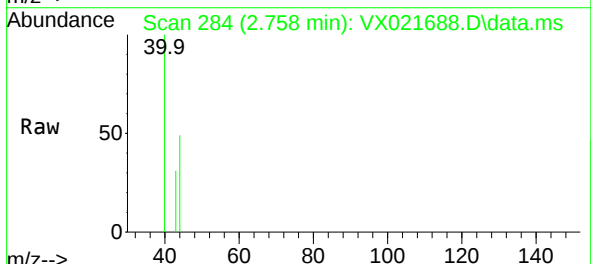
Instrument :  
MSVOA\_X  
ClientSampled :

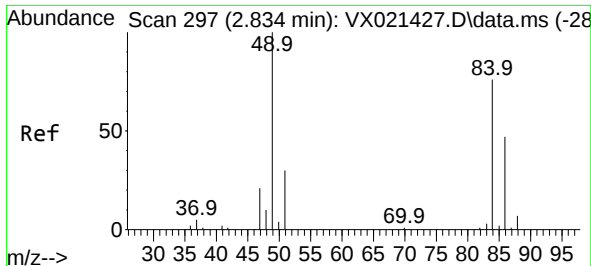
Tgt Ion: 43 Resp: 839  
Ion Ratio Lower Upper  
43 100  
58 32.6 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.28 ug/l  
RT: 2.758 min Scan# 284  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Tgt Ion: 43 Resp: 275  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.9 32.9#





#20

Methylene Chloride

Concen: 0.30 ug/l

RT: 2.834 min Scan# 297

Delta R.T. 0.000 min

Lab File: VX021688.D

Acq: 31 Mar 2021 16:16

Tgt Ion: 84 Resp: 195

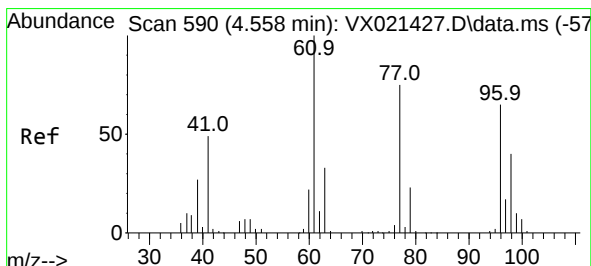
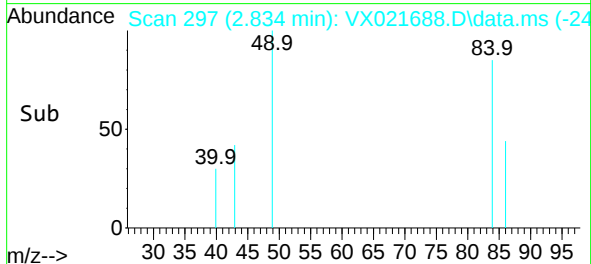
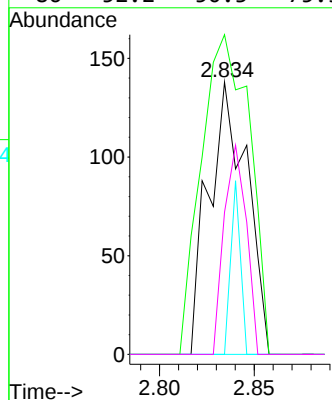
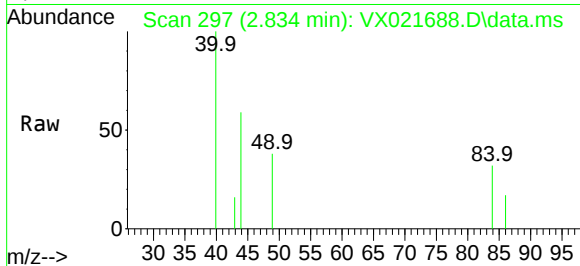
Ion Ratio Lower Upper

84 100

49 117.4 88.6 132.8

51 0.0 27.0 40.6#

86 52.2 50.3 75.5



#27

cis-1,2-Dichloroethene

Concen: 0.33 ug/l

RT: 4.570 min Scan# 592

Delta R.T. 0.012 min

Lab File: VX021688.D

Acq: 31 Mar 2021 16:16

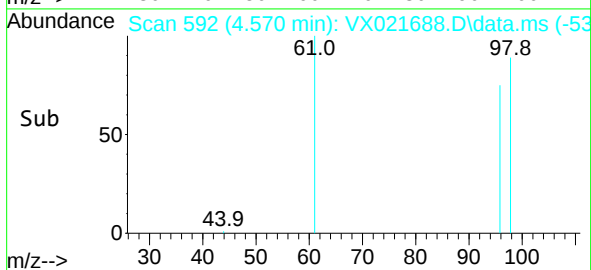
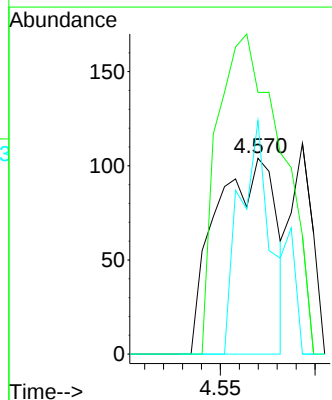
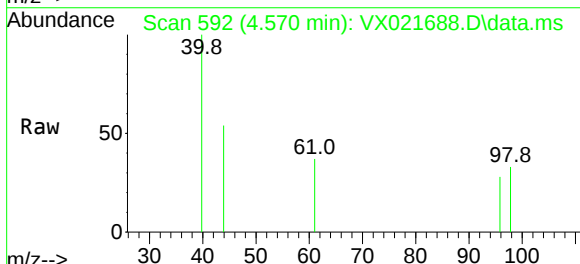
Tgt Ion: 96 Resp: 229

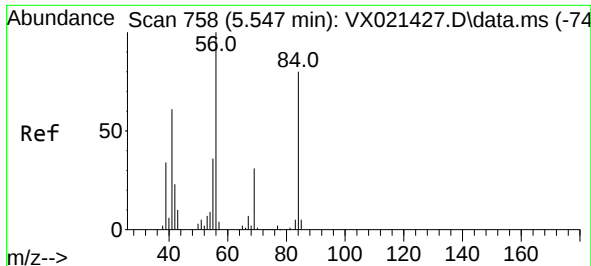
Ion Ratio Lower Upper

96 100

61 175.1 0.0 285.6

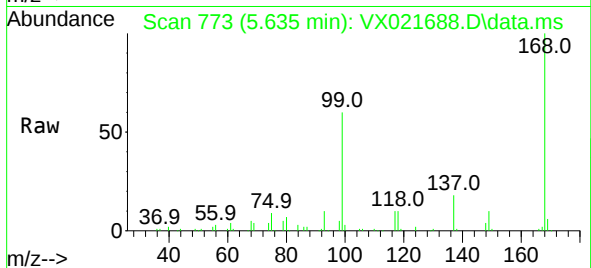
98 71.2 0.0 129.6



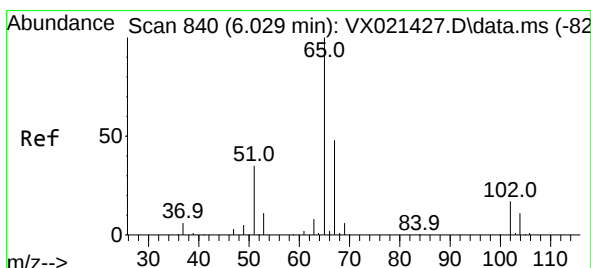
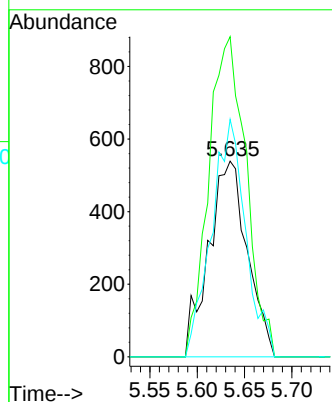
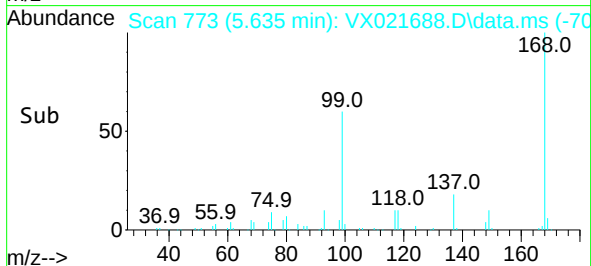


#31  
Cyclohexane  
Concen: 1.56 ug/l  
RT: 5.635 min Scan# 773  
Delta R.T. 0.088 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

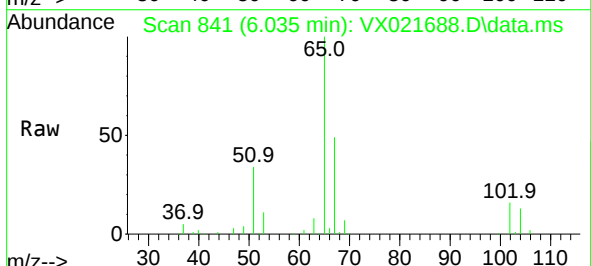
Instrument :  
MSVOA\_X  
ClientSampled :



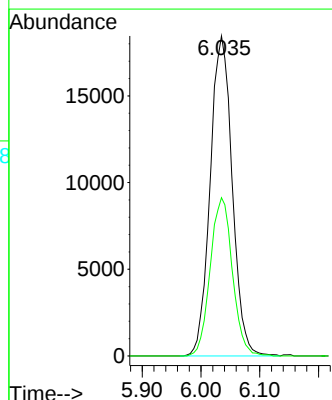
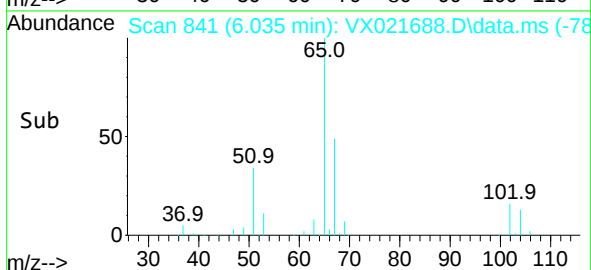
Tgt Ion: 56 Resp: 1530  
Ion Ratio Lower Upper  
56 100  
69 163.6 25.3 37.9#  
84 121.3 71.4 107.0#

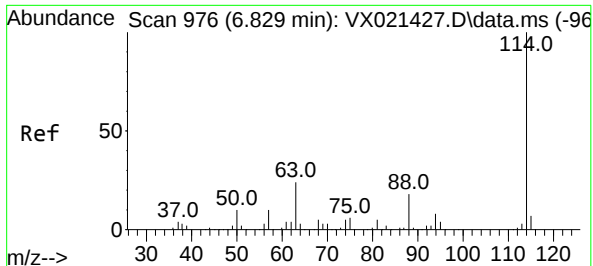


#33  
1,2-Dichloroethane-d4  
Concen: 53.96 ug/l  
RT: 6.035 min Scan# 841  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16



Tgt Ion: 65 Resp: 48099  
Ion Ratio Lower Upper  
65 100  
67 49.8 0.0 105.4

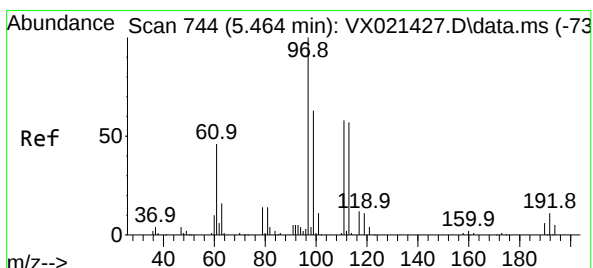
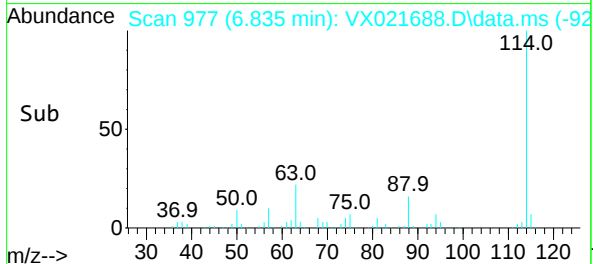
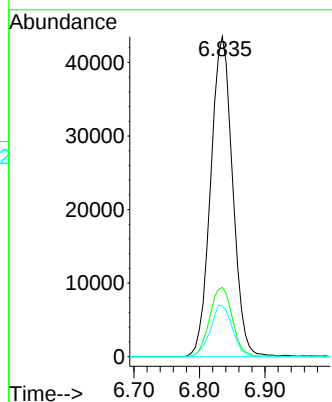
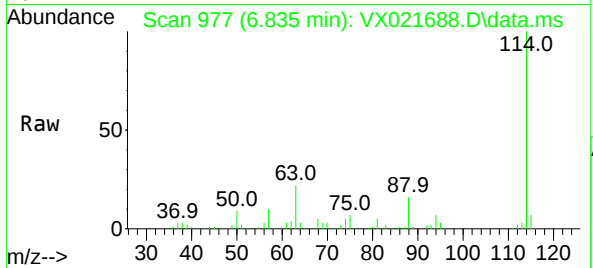




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.835 min Scan# 977  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

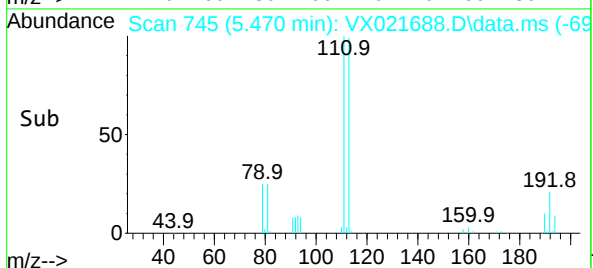
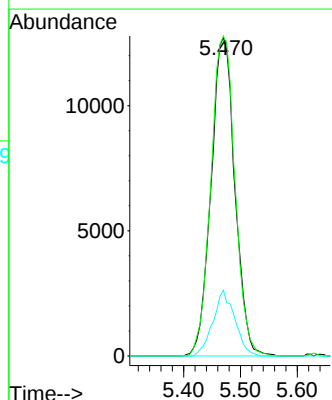
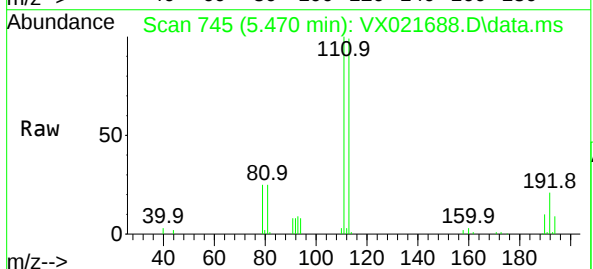
Instrument :  
MSVOA\_X  
ClientSampled :

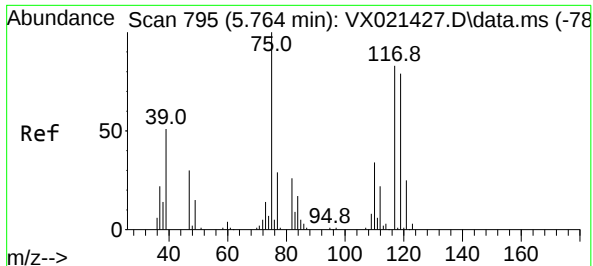
Tgt Ion:114 Resp: 101066  
Ion Ratio Lower Upper  
114 100  
63 21.7 0.0 40.8  
88 15.8 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 51.54 ug/l  
RT: 5.470 min Scan# 745  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Tgt Ion:113 Resp: 37001  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.9 122.9  
192 19.0 16.7 25.1





#36

1,1-Dichloropropene

Concen: 5.02 ug/l

RT: 5.635 min Scan# 773

Delta R.T. -0.129 min

Lab File: VX021688.D

Acq: 31 Mar 2021 16:16

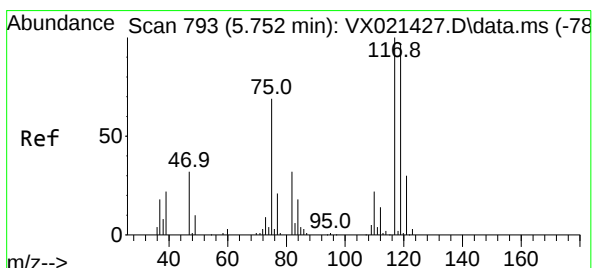
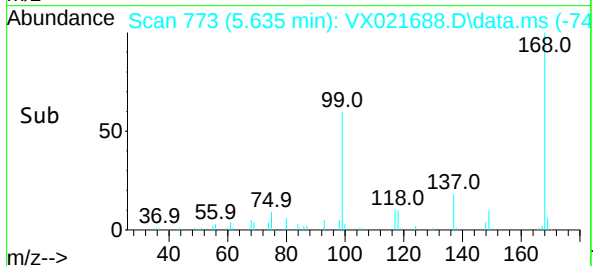
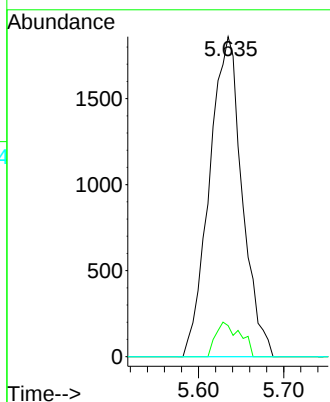
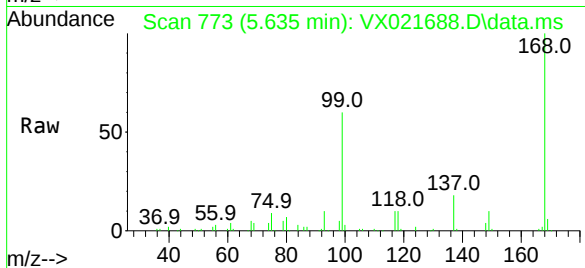
Tgt Ion: 75 Resp: 4968

Ion Ratio Lower Upper

75 100

110 8.0 18.1 54.4#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 5.635 min Scan# 773

Delta R.T. -0.117 min

Lab File: VX021688.D

Acq: 31 Mar 2021 16:16

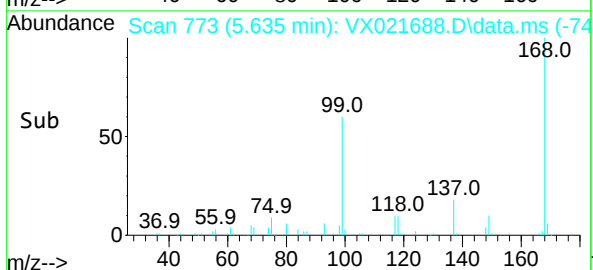
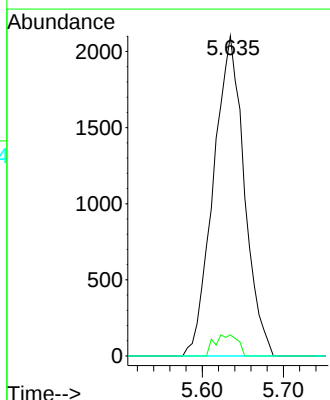
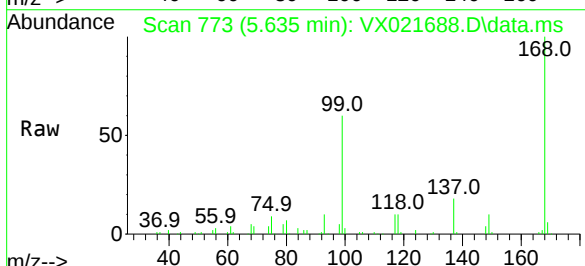
Tgt Ion: 117 Resp: 5558

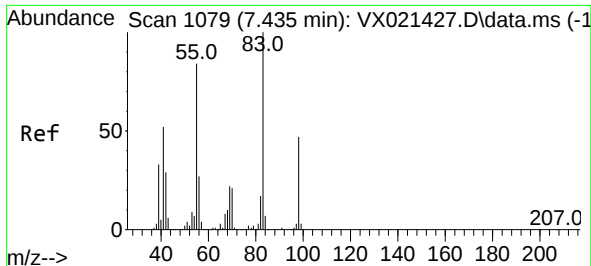
Ion Ratio Lower Upper

117 100

119 6.6 76.2 114.2#

121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: 0.52 ug/l

RT: 7.188 min Scan# 1037

Delta R.T. -0.247 min

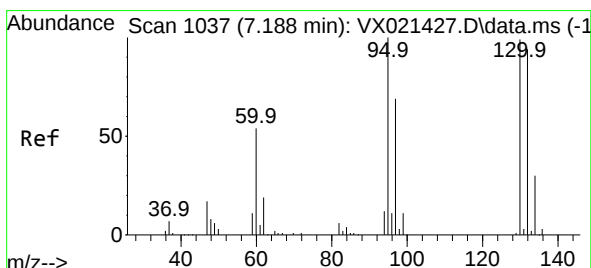
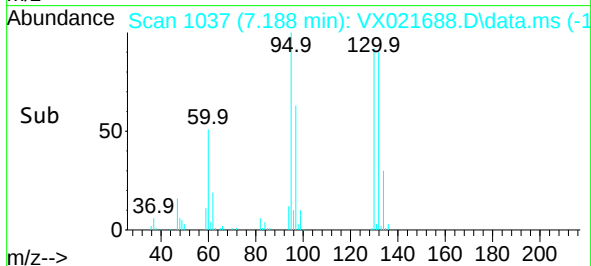
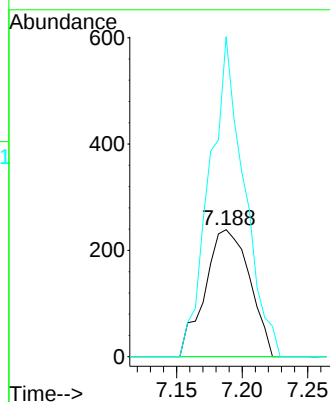
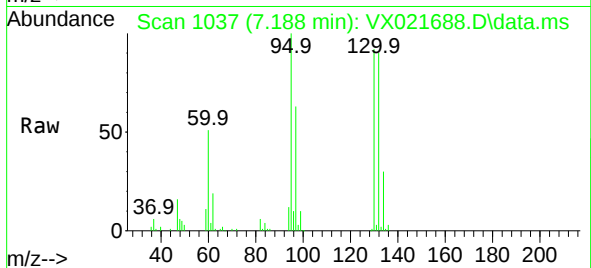
Lab File: VX021688.D

Acq: 31 Mar 2021 16:16

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 83 Resp: 566

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.0   | 58.9  | 88.3# |
| 98  | 251.9 | 38.1  | 57.1# |



#44

Trichloroethene

Concen: 51.03 ug/l

RT: 7.188 min Scan# 1037

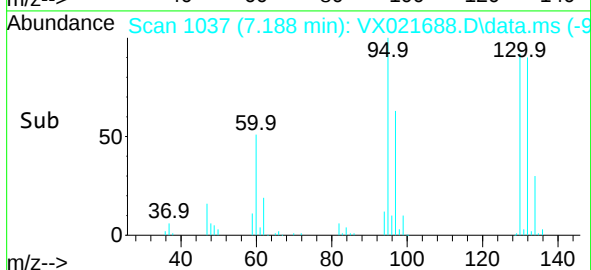
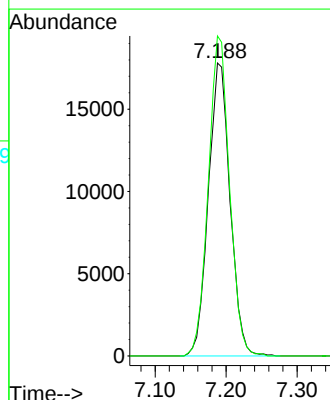
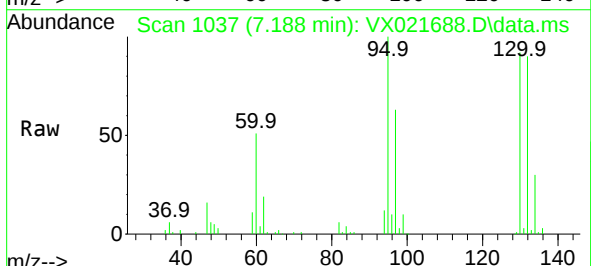
Delta R.T. -0.000 min

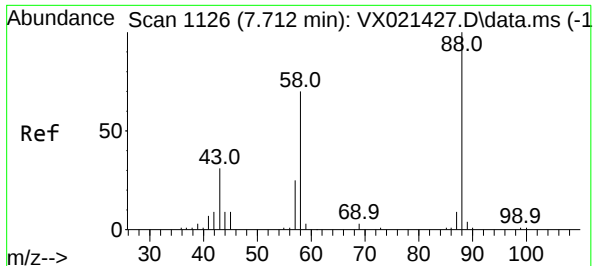
Lab File: VX021688.D

Acq: 31 Mar 2021 16:16

Tgt Ion: 130 Resp: 37866

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 130 | 100   |       |       |
| 95  | 109.3 | 0.0   | 198.0 |





#49

1,4-Dioxane

Concen: 16.84 ug/l

RT: 7.729 min Scan# 1129

Delta R.T. 0.017 min

Lab File: VX021688.D

Acq: 31 Mar 2021 16:16

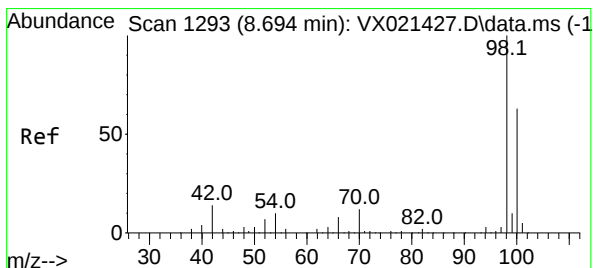
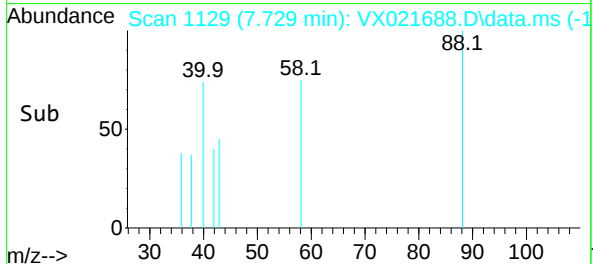
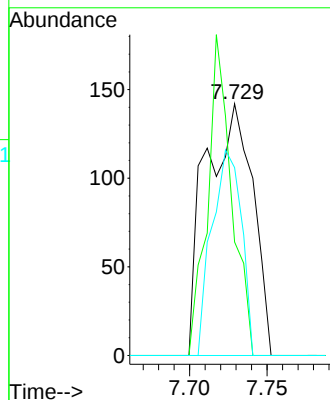
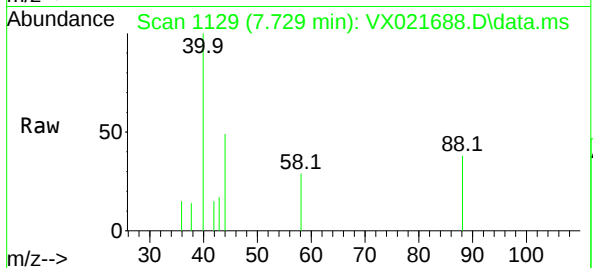
Tgt Ion: 88 Resp: 299

Ion Ratio Lower Upper

88 100

43 65.2 23.2 34.8#

58 51.5 55.0 82.4#



#50

Toluene-d8

Concen: 49.43 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. -0.000 min

Lab File: VX021688.D

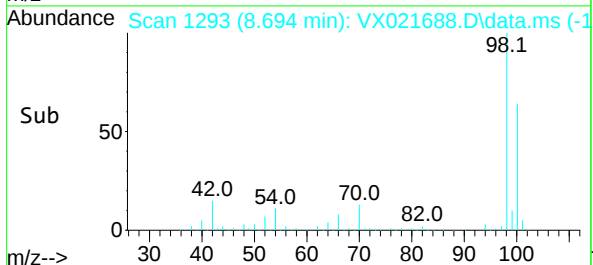
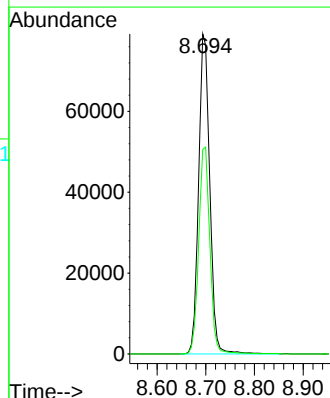
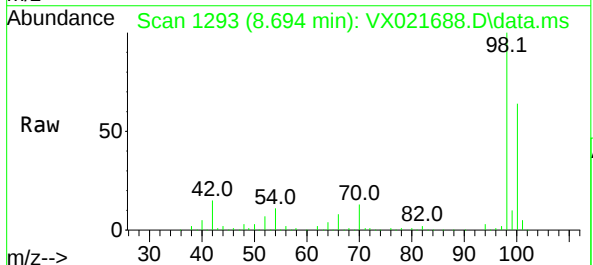
Acq: 31 Mar 2021 16:16

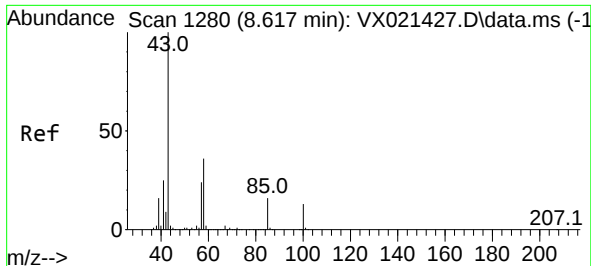
Tgt Ion: 98 Resp: 126449

Ion Ratio Lower Upper

98 100

100 64.8 51.9 77.9

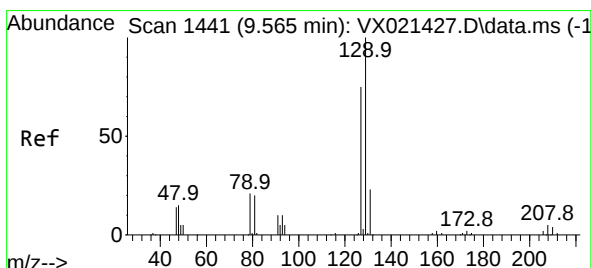
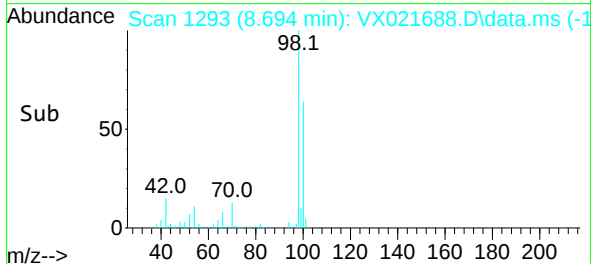
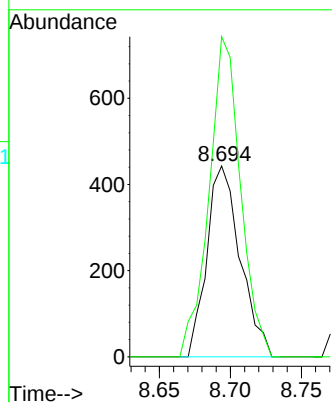
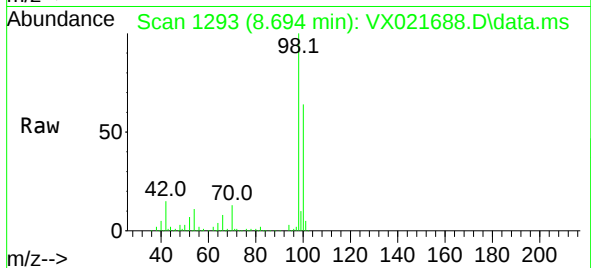




#51  
4-Methyl-2-Pentanone  
Concen: 0.63 ug/l  
RT: 8.694 min Scan# 1293  
Delta R.T. 0.077 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

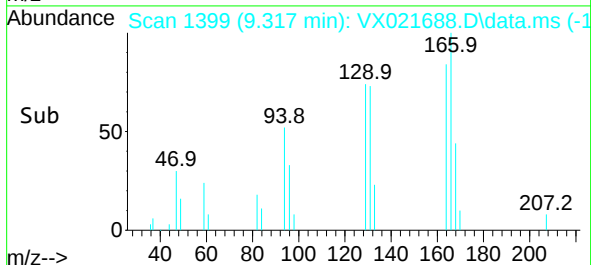
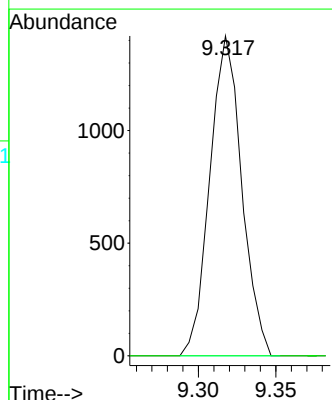
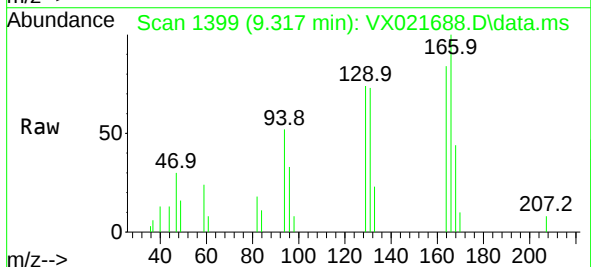
Instrument :  
MSVOA\_X  
ClientSampled :

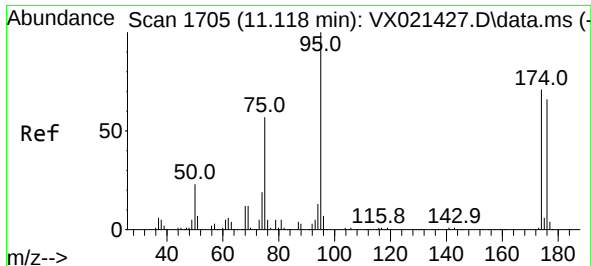
Tgt Ion: 43 Resp: 723  
Ion Ratio Lower Upper  
43 100  
58 158.8 35.4 53.0#



#60  
Dibromochloromethane  
Concen: 2.48 ug/l  
RT: 9.317 min Scan# 1399  
Delta R.T. -0.248 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Tgt Ion: 129 Resp: 2033  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

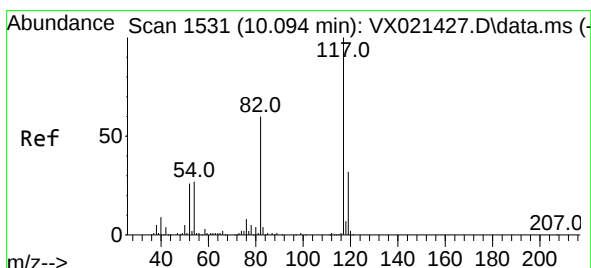
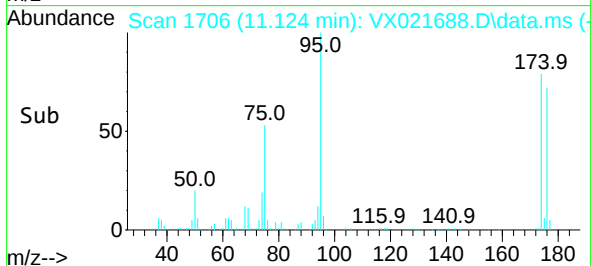
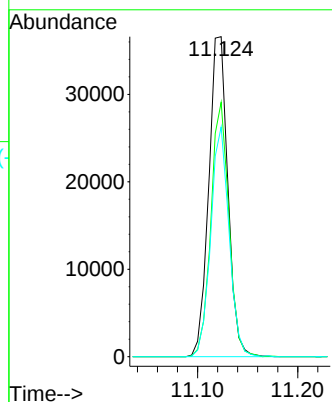
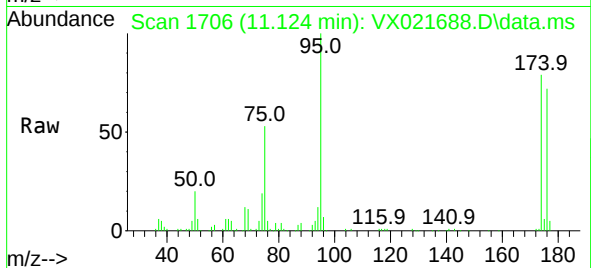




#62  
4-Bromofluorobenzene  
Concen: 48.77 ug/l  
RT: 11.124 min Scan# 1706  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

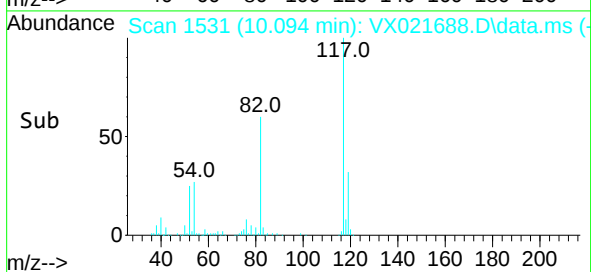
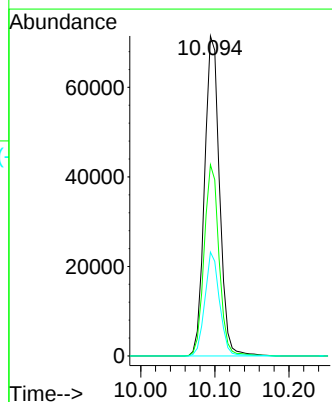
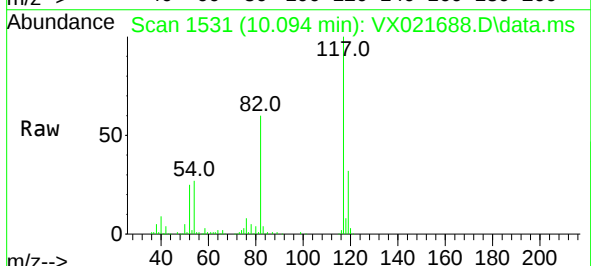
Instrument :  
MSVOA\_X  
ClientSampled :

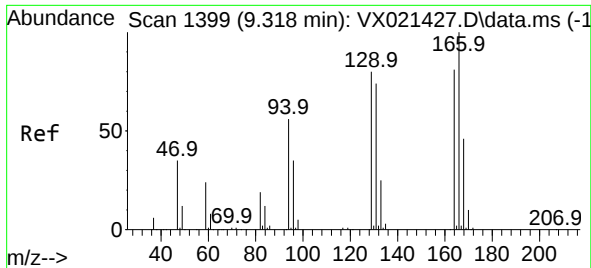
Tgt Ion: 95 Resp: 48511  
Ion Ratio Lower Upper  
95 100  
174 75.1 0.0 154.6  
176 68.8 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

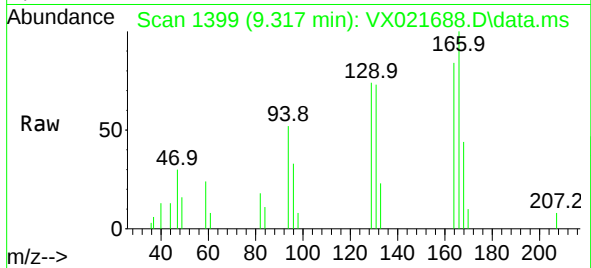
Tgt Ion: 117 Resp: 100500  
Ion Ratio Lower Upper  
117 100  
82 59.7 47.4 71.2  
119 32.5 26.6 39.8





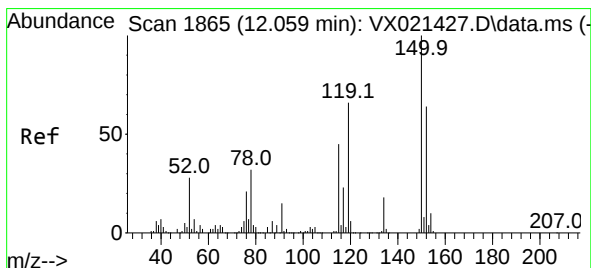
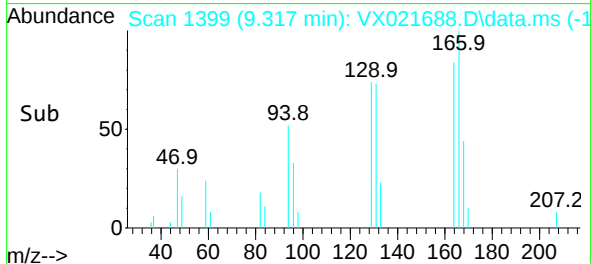
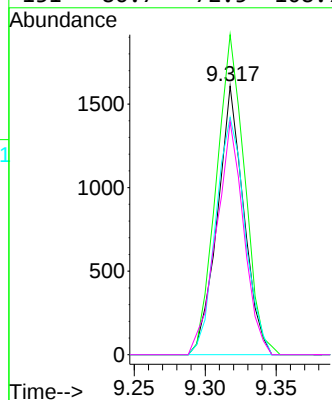
#64  
Tetrachloroethene  
Concen: 3.08 ug/l  
RT: 9.317 min Scan# 1399  
Delta R.T. -0.001 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion:164 Resp: 2073

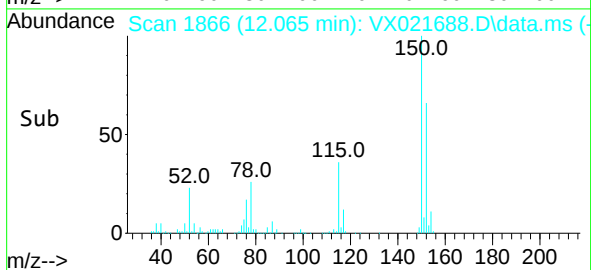
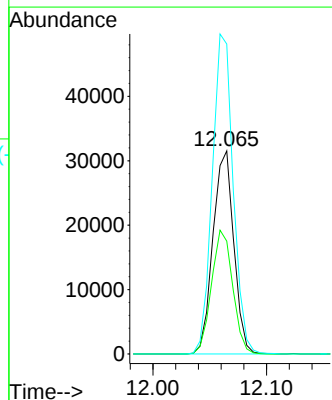
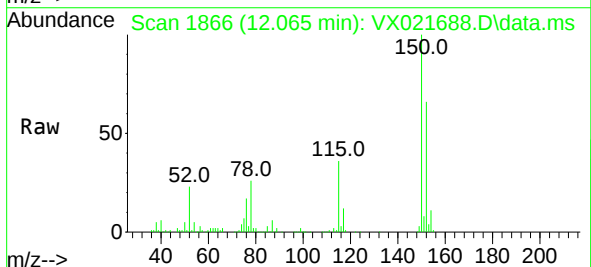
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 119.1 | 103.4 | 155.2 |
| 129 | 88.3  | 70.8  | 106.2 |
| 131 | 86.7  | 72.5  | 108.7 |

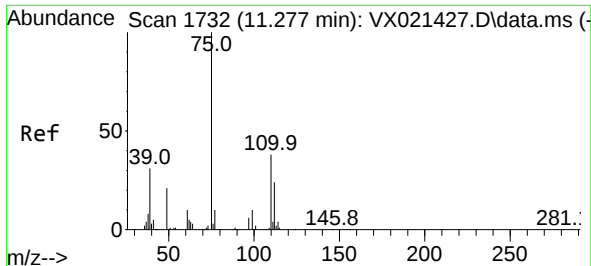


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.065 min Scan# 1866  
Delta R.T. 0.006 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Tgt Ion:152 Resp: 40236

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 61.9  | 41.1  | 123.3 |
| 150 | 157.6 | 0.0   | 349.0 |

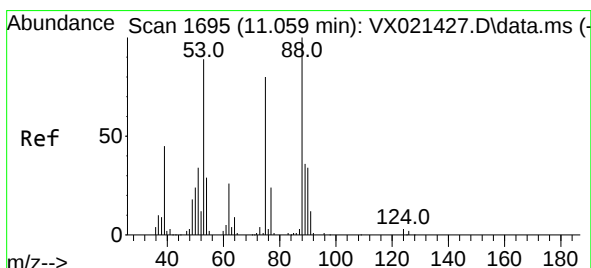
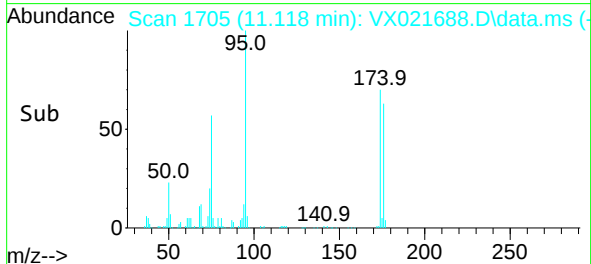
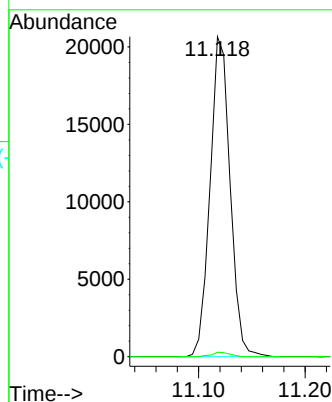
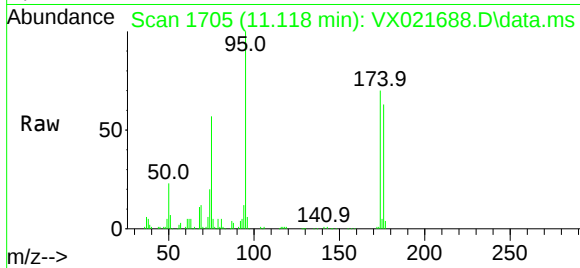




#76  
1,2,3-Trichloropropane  
Concen: 28.82 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.159 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 26992  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.77 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021688.D  
Acq: 31 Mar 2021 16:16

Tgt Ion: 75 Resp: 26992  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

