

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032421\  
 Data File : VX021438.D  
 Acq On : 24 Mar 2021 16:10  
 Operator : JC/MD  
 Sample : M1735-10 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 25 02:54:03 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

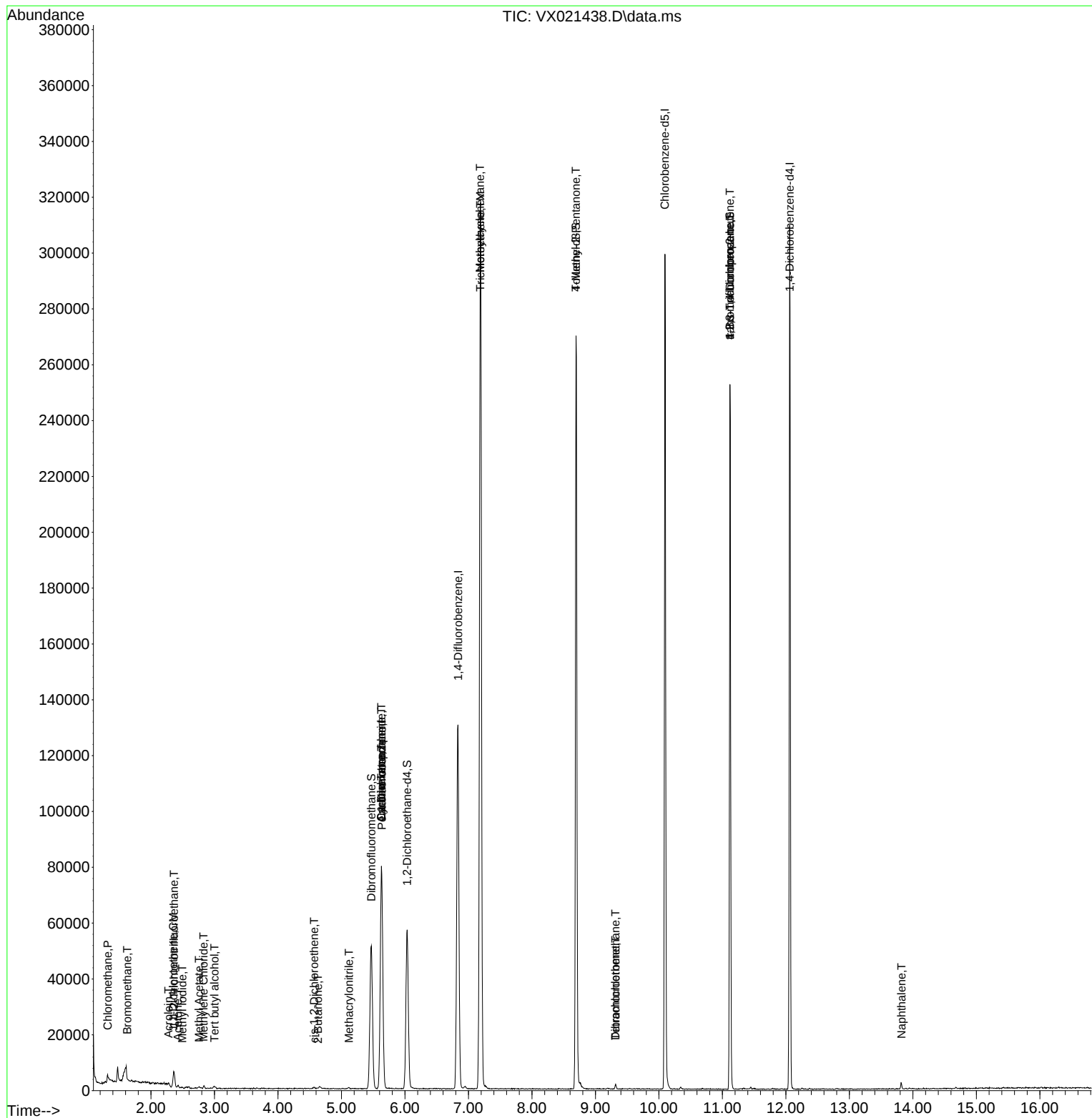
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.635  | 168   | 67494    | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.835  | 114   | 122950   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094 | 117   | 125079   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.059 | 152   | 56188    | 50.00    | ug/l   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.035  | 65    | 56789    | 50.57    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 101.14%  |
| 35) Dibromofluoromethane      | 5.470  | 113   | 42707    | 48.90    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 97.80%   |
| 50) Toluene-d8                | 8.694  | 98    | 155296   | 49.90    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 99.80%   |
| 62) 4-Bromofluorobenzene      | 11.118 | 95    | 65470    | 54.11    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 108.22%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 1.317  | 50    | 2500     | 2.97     | ug/l   | 93       |
| 5) Bromomethane               | 1.629  | 94    | 232      | 0.76     | ug/l # | 62       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.364  | 101   | 1649     | 2.37     | ug/l   | 97       |
| 10) Methyl Iodide             | 2.493  | 142   | 168      | 6.91     | ug/l # | 61       |
| 11) Tert butyl alcohol        | 2.999  | 59    | 533      | 2.87     | ug/l # | 73       |
| 12) 1,1-Dichloroethene        | 2.352  | 96    | 632      | 0.93     | ug/l   | 82       |
| 13) Acrolein                  | 2.276  | 56    | 90       | 5.24     | ug/l # | 14       |
| 16) Acetone                   | 2.423  | 43    | 1027     | 2.42     | ug/l   | 100      |
| 18) Methyl Acetate            | 2.758  | 43    | 860      | 0.70     | ug/l # | 80       |
| 20) Methylene Chloride        | 2.829  | 84    | 252      | 0.30     | ug/l # | 80       |
| 25) 2-Butanone                | 4.629  | 43    | 161      | 0.25     | ug/l # | 45       |
| 27) cis-1,2-Dichloroethene    | 4.570  | 96    | 183      | 0.21     | ug/l   | 22       |
| 31) Cyclohexane               | 5.629  | 56    | 2057     | 1.67     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 5.629  | 75    | 6399     | 5.31     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.629  | 117   | 7503     | 5.80     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.182  | 83    | 1563     | 1.17     | ug/l # | 1        |
| 41) Methacrylonitrile         | 5.117  | 41    | 265      | 0.33     | ug/l # | 36       |
| 44) Trichloroethene           | 7.188  | 130   | 111768   | 123.81   | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 8.694  | 43    | 1024     | 0.74     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.318  | 129   | 270      | 0.27     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.318  | 164   | 232      | 0.28     | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.118 | 75    | 36074    | 27.58    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.118 | 75    | 36074    | 84.00    | ug/l # | 12       |
| 95) Naphthalene               | 13.818 | 128   | 1409     | 0.38     | ug/l   | 98       |
| -----                         |        |       |          |          |        |          |

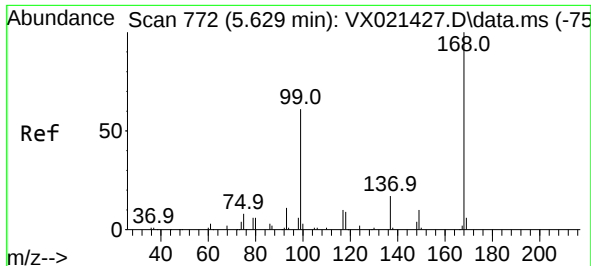
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: Mar 25 02:54:03 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

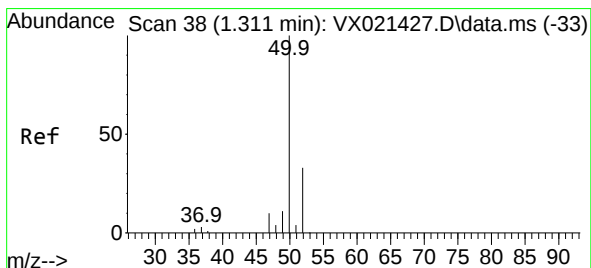
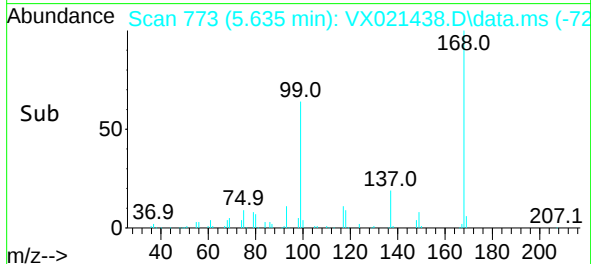
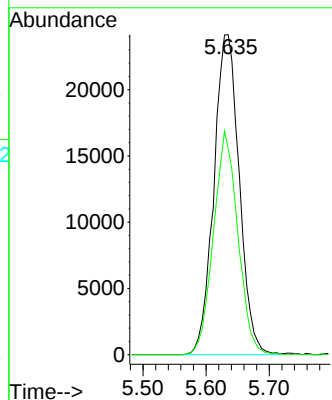
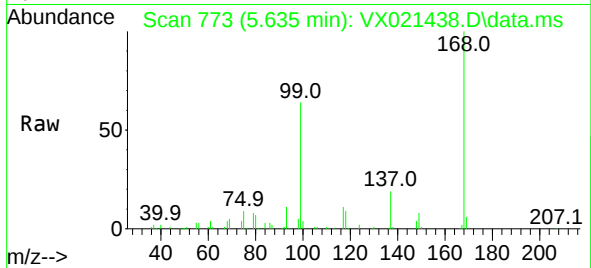




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.635 min Scan# 773  
Delta R.T. 0.006 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

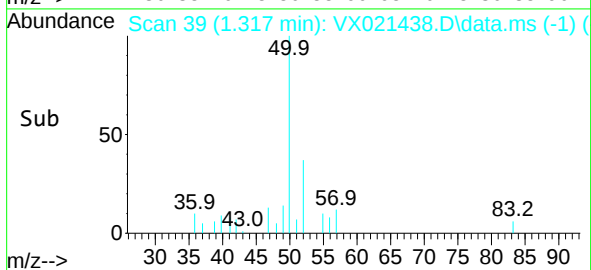
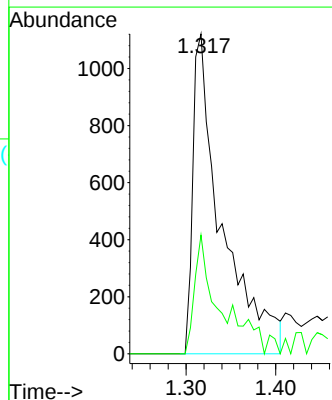
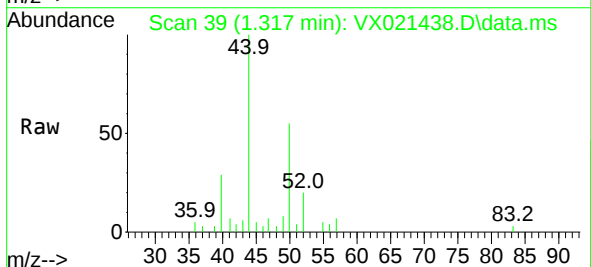
Instrument :  
MSVOA\_X  
ClientSampled :

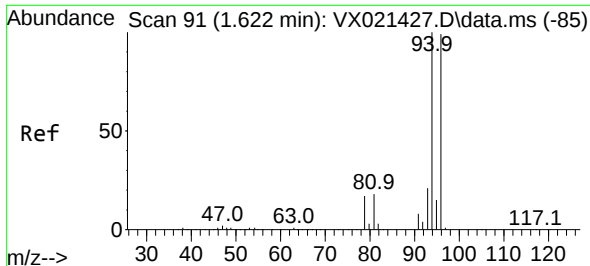
Tgt Ion:168 Resp: 67494  
Ion Ratio Lower Upper  
168 100  
99 64.5 45.8 68.6



#3  
Chloromethane  
Concen: 2.97 ug/l  
RT: 1.317 min Scan# 39  
Delta R.T. 0.006 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Tgt Ion: 50 Resp: 2500  
Ion Ratio Lower Upper  
50 100  
52 37.1 26.4 39.6

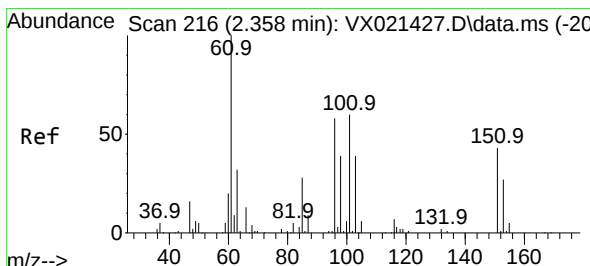
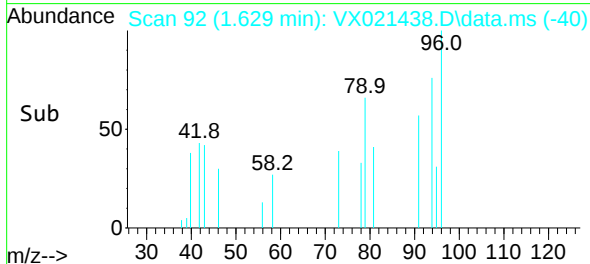
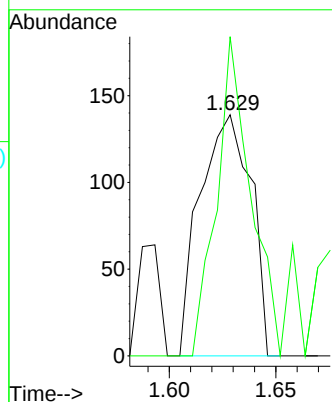
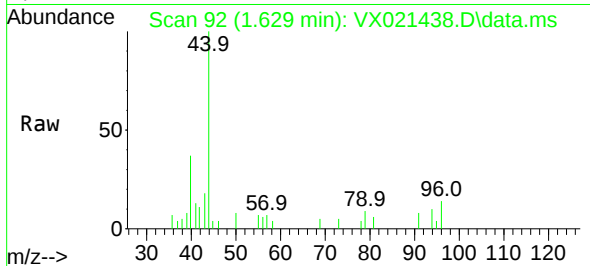




#5  
Bromomethane  
Concen: 0.76 ug/l  
RT: 1.629 min Scan# 92  
Delta R.T. 0.006 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

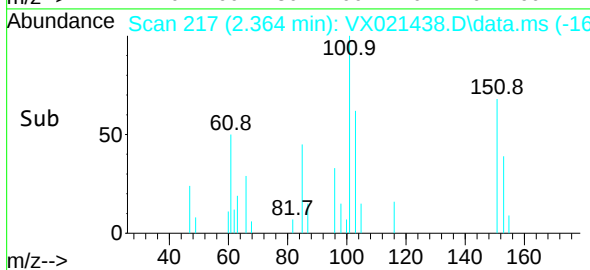
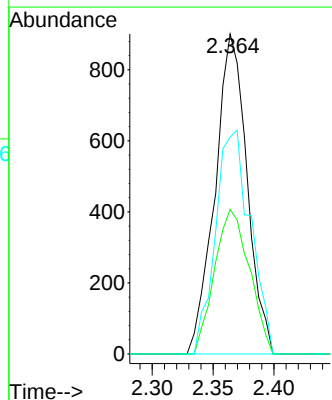
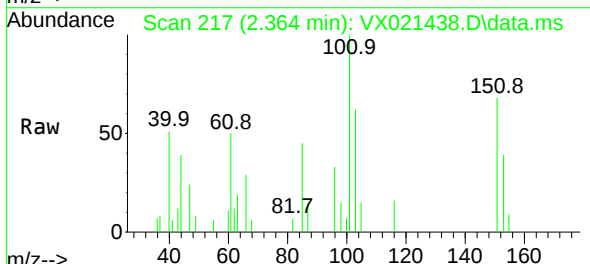
Instrument :  
MSVOA\_X  
ClientSampled :

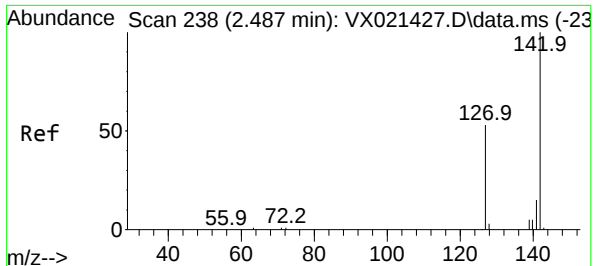
Tgt Ion: 94 Resp: 232  
Ion Ratio Lower Upper  
94 100  
96 132.4 76.4 114.6#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.37 ug/l  
RT: 2.364 min Scan# 217  
Delta R.T. 0.006 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Tgt Ion: 101 Resp: 1649  
Ion Ratio Lower Upper  
101 100  
85 49.2 34.9 52.3  
151 76.4 61.4 92.2





#10

Methyl Iodide

Concen: 6.91 ug/l

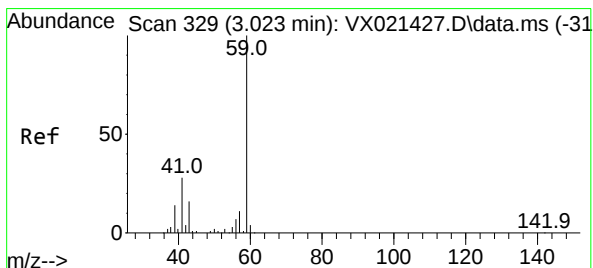
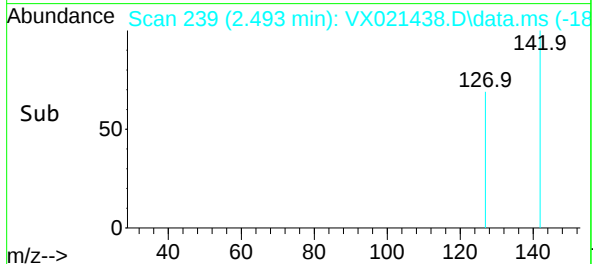
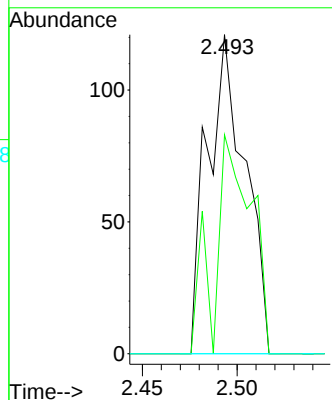
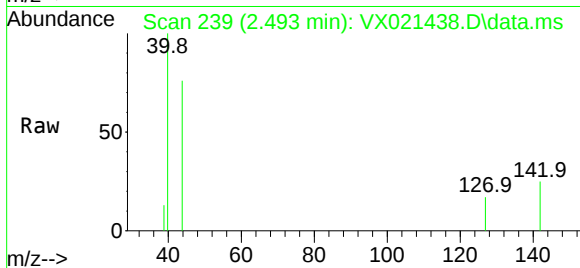
RT: 2.493 min Scan# 239

Delta R.T. 0.006 min

Lab File: VX021438.D

Acq: 24 Mar 2021 16:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 168   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 67.3  | 33.3  | 49.9# |
| 141      | 0.0   | 11.4  | 17.0# |



#11

Tert butyl alcohol

Concen: 2.87 ug/l

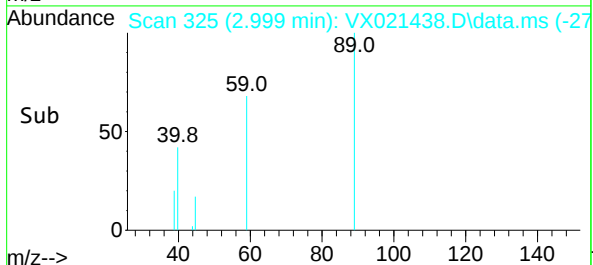
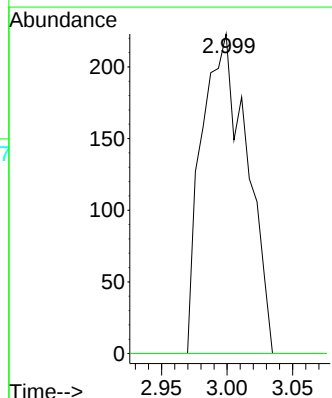
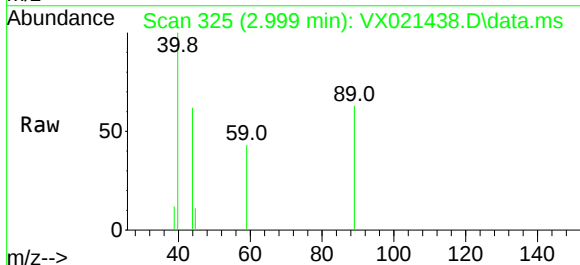
RT: 2.999 min Scan# 325

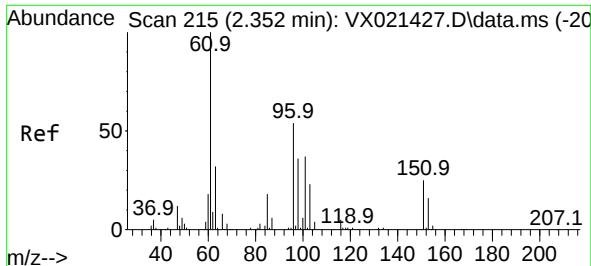
Delta R.T. -0.024 min

Lab File: VX021438.D

Acq: 24 Mar 2021 16:10

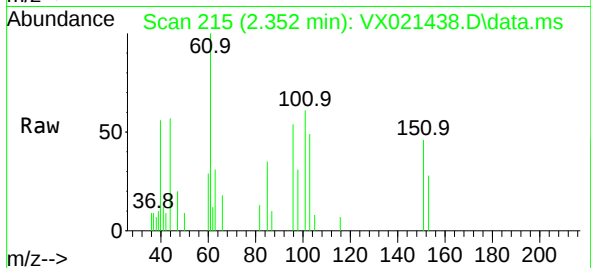
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 533   |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 0.0   | 7.8   | 11.8# |



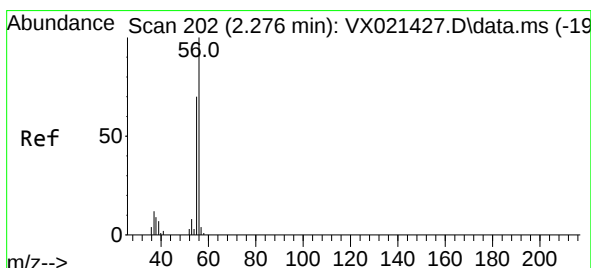
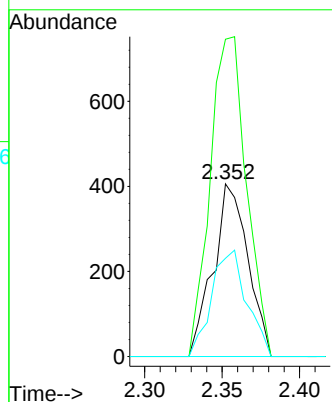
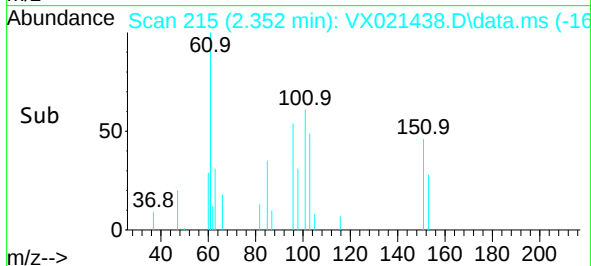


#12  
1,1-Dichloroethene  
Concen: 0.93 ug/l  
RT: 2.352 min Scan# 215  
Delta R.T. 0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

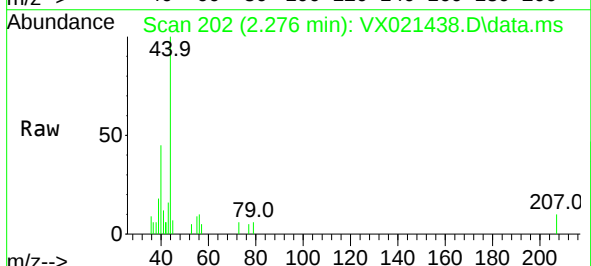
Instrument :  
MSVOA\_X  
ClientSampled :



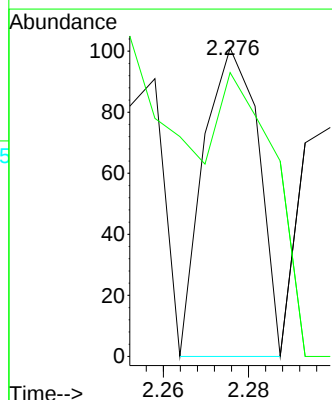
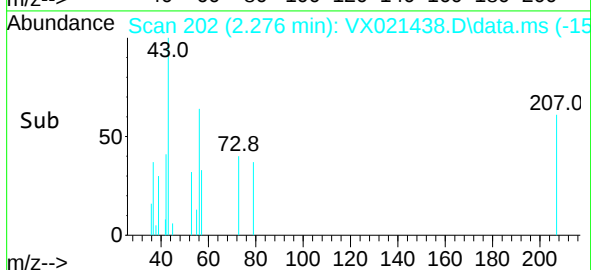
Tgt Ion: 96 Resp: 632  
Ion Ratio Lower Upper  
96 100  
61 183.7 124.6 187.0  
98 56.9 50.6 76.0

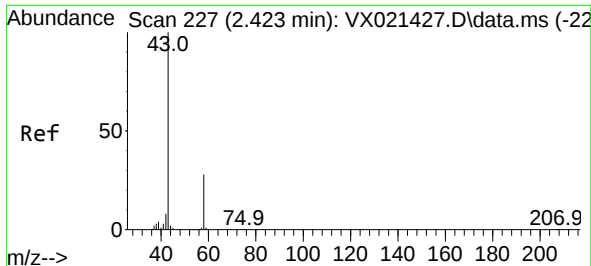


#13  
Acrolein  
Concen: 5.24 ug/l  
RT: 2.276 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10



Tgt Ion: 56 Resp: 90  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#

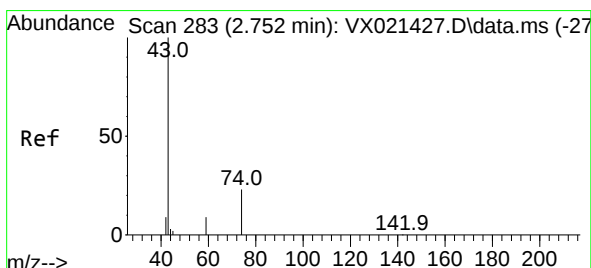
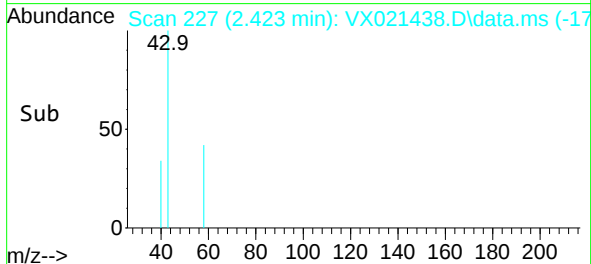
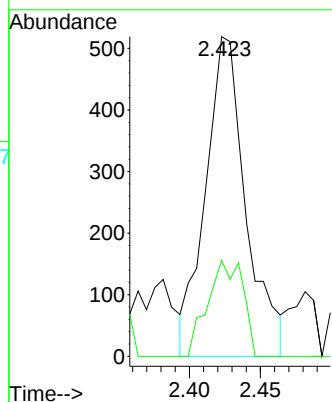
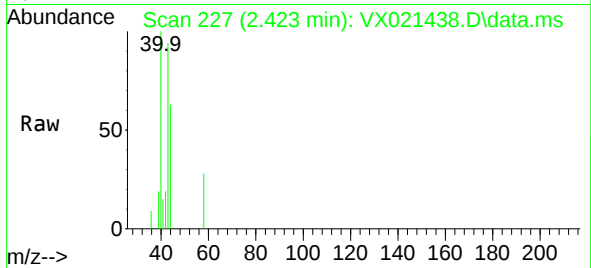




#16  
Acetone  
Concen: 2.42 ug/l  
RT: 2.423 min Scan# 227  
Delta R.T. -0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

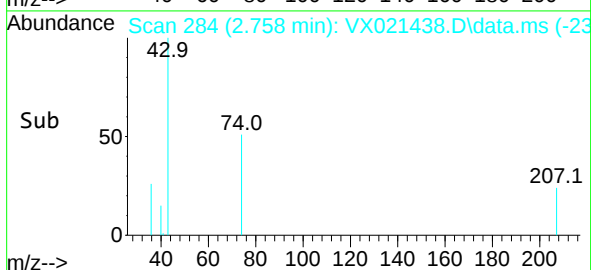
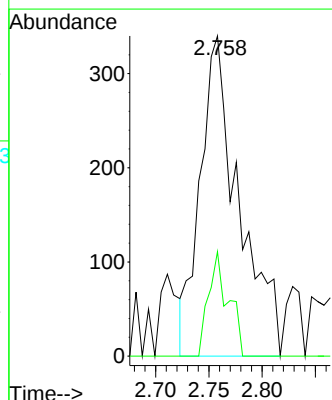
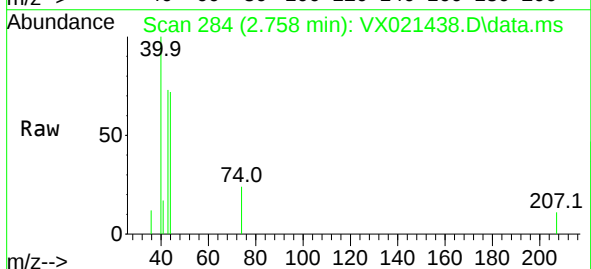
Instrument :  
MSVOA\_X  
ClientSampled :

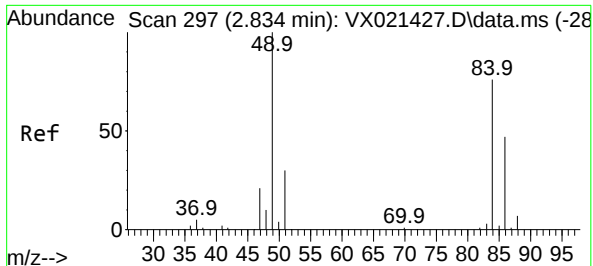
Tgt Ion: 43 Resp: 1027  
Ion Ratio Lower Upper  
43 100  
58 34.5 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.70 ug/l  
RT: 2.758 min Scan# 284  
Delta R.T. 0.006 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Tgt Ion: 43 Resp: 860  
Ion Ratio Lower Upper  
43 100  
74 16.7 21.9 32.9#





#20

Methylene Chloride

Concen: 0.30 ug/l

RT: 2.829 min Scan# 296

Delta R.T. -0.005 min

Lab File: VX021438.D

Acq: 24 Mar 2021 16:10

Tgt Ion: 84 Resp: 252

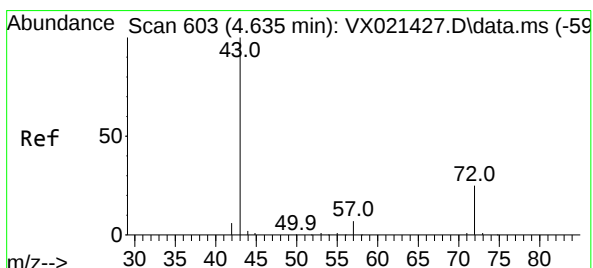
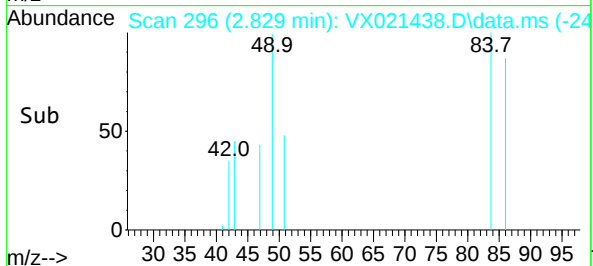
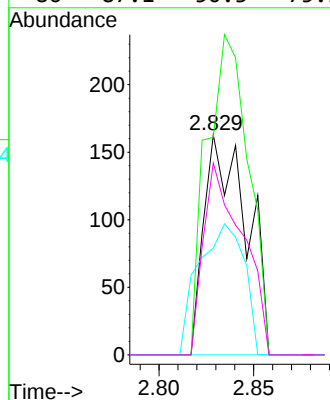
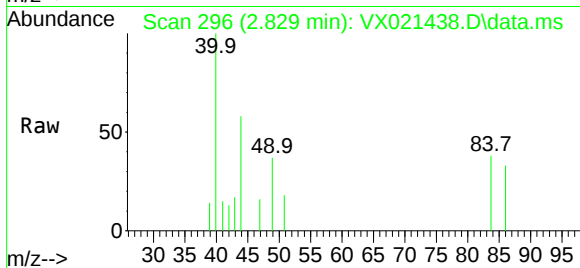
Ion Ratio Lower Upper

84 100

49 98.8 88.6 132.8

51 48.5 27.0 40.6#

86 87.1 50.3 75.5#



#25

2-Butanone

Concen: 0.25 ug/l

RT: 4.629 min Scan# 602

Delta R.T. -0.006 min

Lab File: VX021438.D

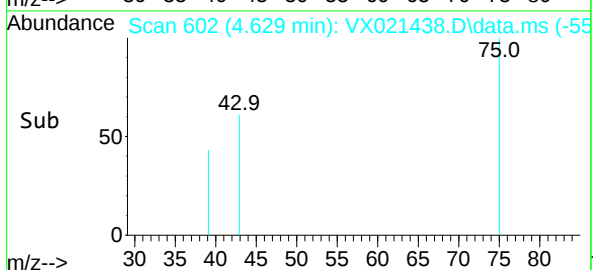
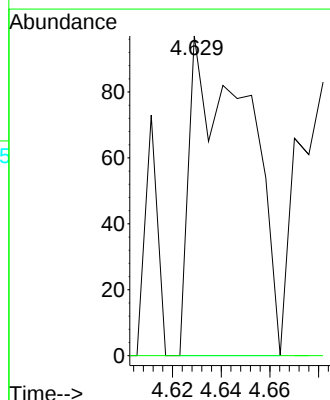
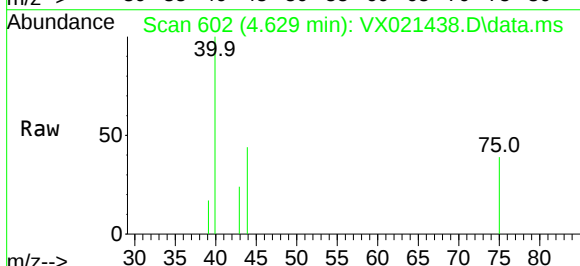
Acq: 24 Mar 2021 16:10

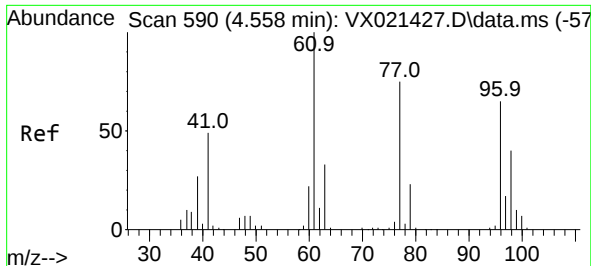
Tgt Ion: 43 Resp: 161

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#





#27

cis-1,2-Dichloroethene

Concen: 0.21 ug/l

RT: 4.570 min Scan# 592

Delta R.T. 0.012 min

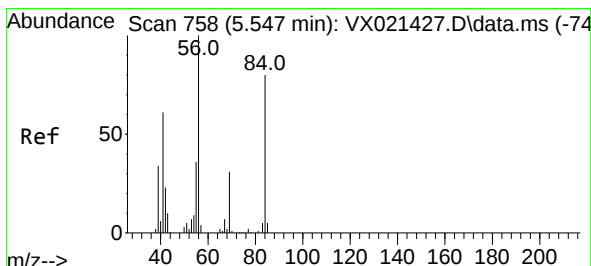
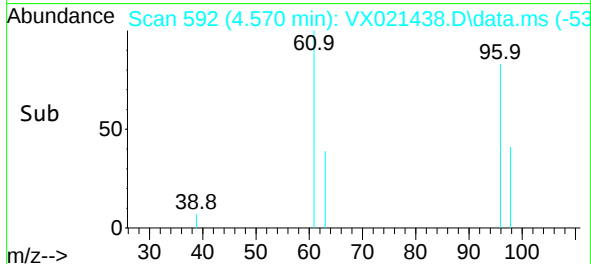
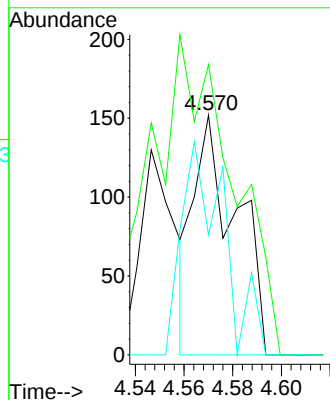
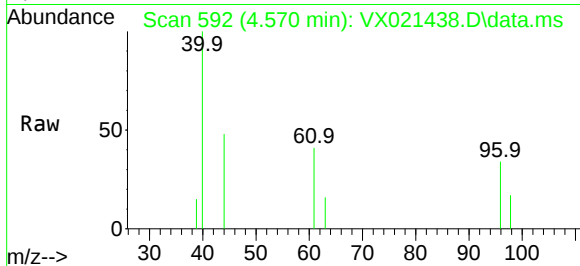
Lab File: VX021438.D

Acq: 24 Mar 2021 16:10

Tgt Ion: 96 Resp: 183

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 266.1 | 0.0   | 285.6 |
| 98  | 89.1  | 0.0   | 129.6 |

Instrument :  
MSVOA\_X  
ClientSampled :



#31

Cyclohexane

Concen: 1.67 ug/l

RT: 5.629 min Scan# 772

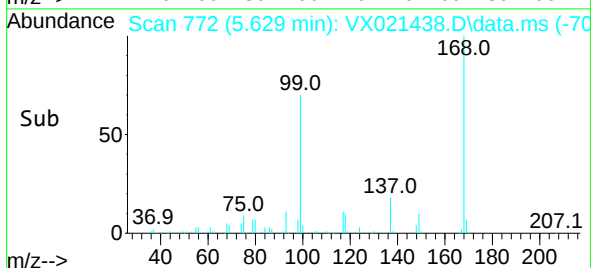
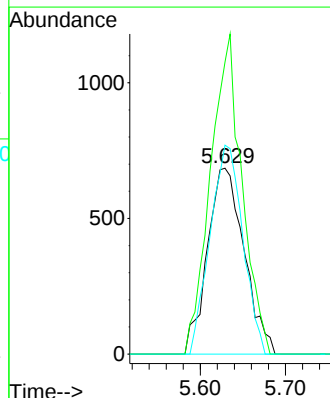
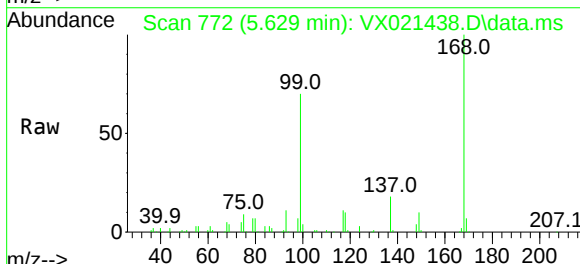
Delta R.T. 0.082 min

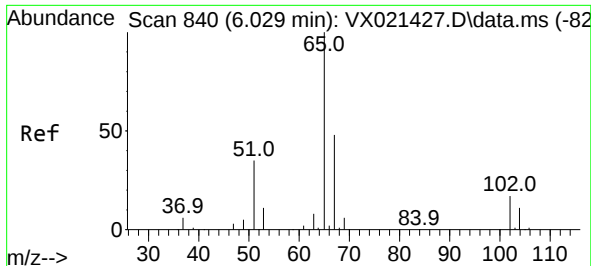
Lab File: VX021438.D

Acq: 24 Mar 2021 16:10

Tgt Ion: 56 Resp: 2057

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 157.1 | 25.3  | 37.9#  |
| 84  | 112.4 | 71.4  | 107.0# |

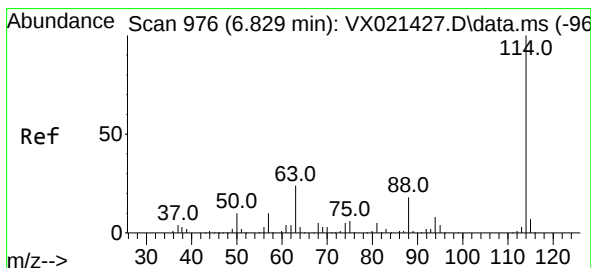
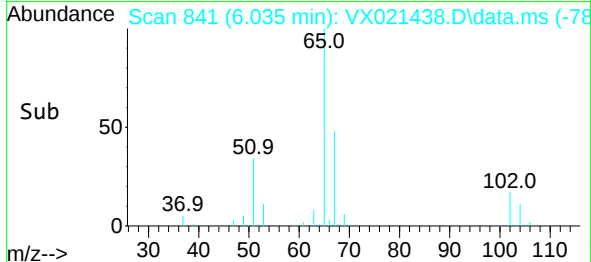
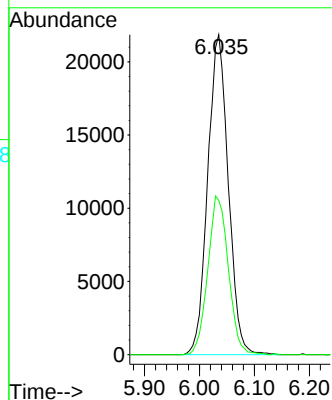
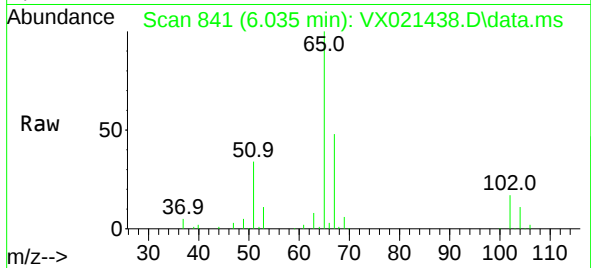




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.57 ug/l  
 RT: 6.035 min Scan# 841  
 Delta R.T. 0.006 min  
 Lab File: VX021438.D  
 Acq: 24 Mar 2021 16:10

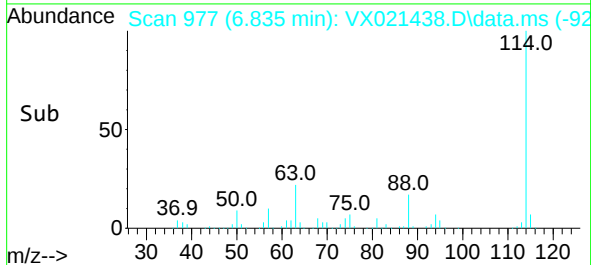
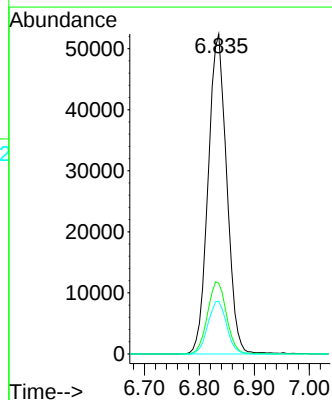
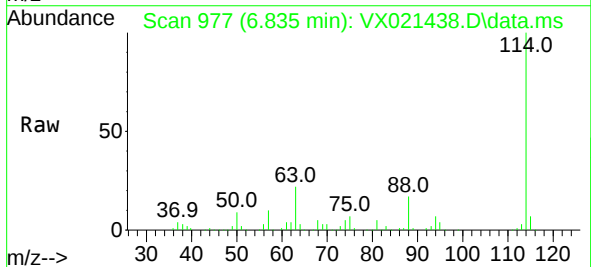
Instrument :  
 MSVOA\_X  
 ClientSampled :

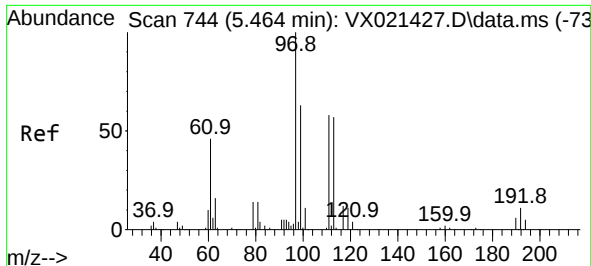
Tgt Ion: 65 Resp: 56789  
 Ion Ratio Lower Upper  
 65 100  
 67 49.6 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.835 min Scan# 977  
 Delta R.T. 0.006 min  
 Lab File: VX021438.D  
 Acq: 24 Mar 2021 16:10

Tgt Ion: 114 Resp: 122950  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 40.8  
 88 16.5 0.0 32.8

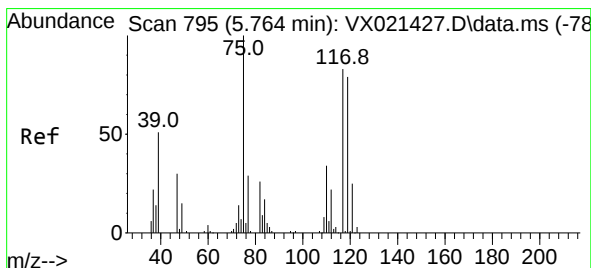
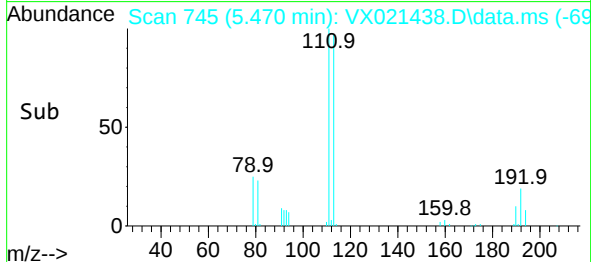
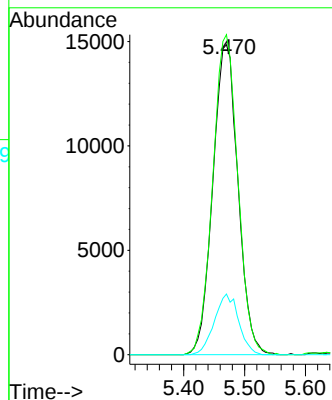
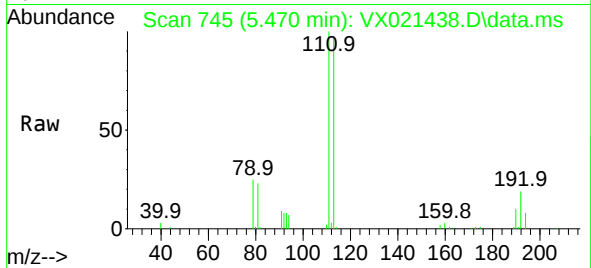




#35  
Dibromofluoromethane  
Concen: 48.90 ug/l  
RT: 5.470 min Scan# 745  
Delta R.T. 0.006 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

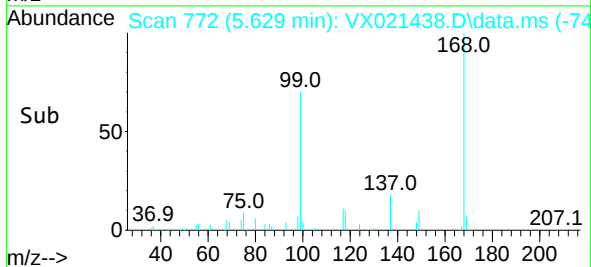
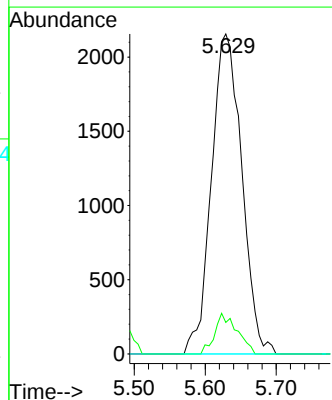
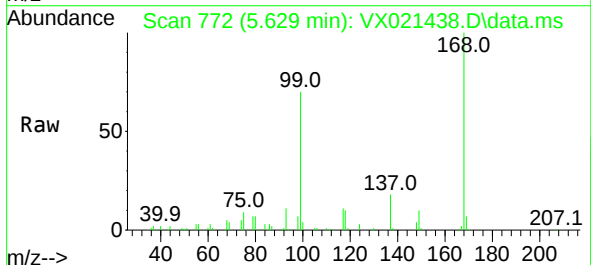
Instrument :  
MSVOA\_X  
ClientSampleId :

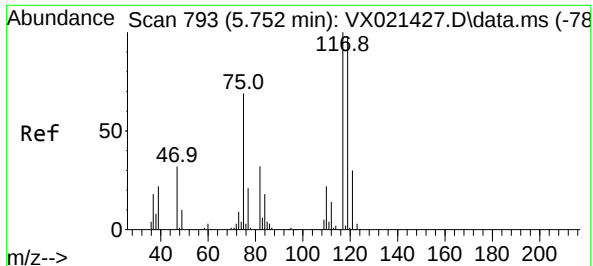
Tgt Ion:113 Resp: 42707  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.9 122.9  
192 18.8 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 5.31 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.135 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

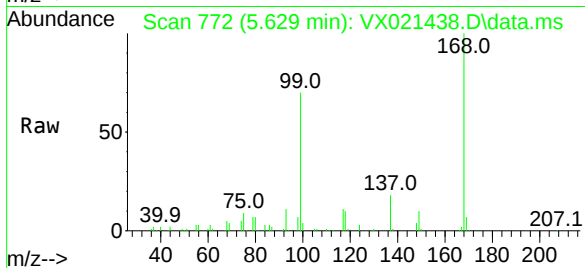
Tgt Ion: 75 Resp: 6399  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.1 54.4#  
77 0.0 25.3 37.9#



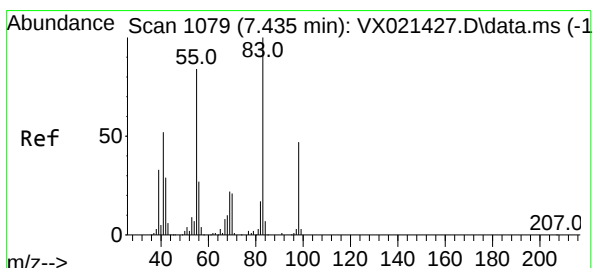
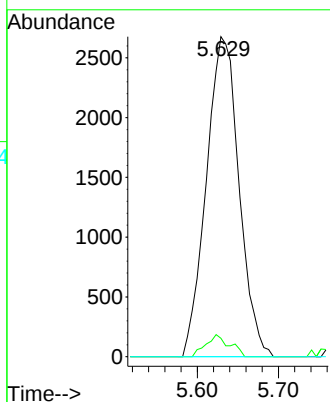
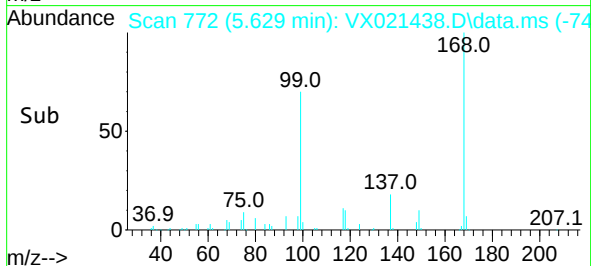


#38  
Carbon Tetrachloride  
Concen: 5.80 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.123 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

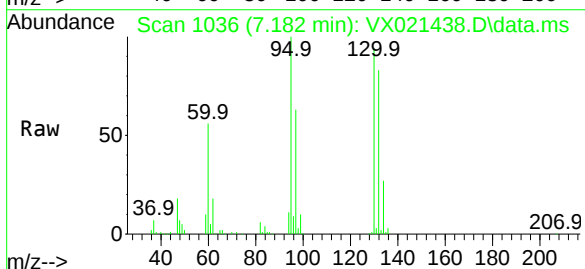
Instrument :  
MSVOA\_X  
ClientSampleId :



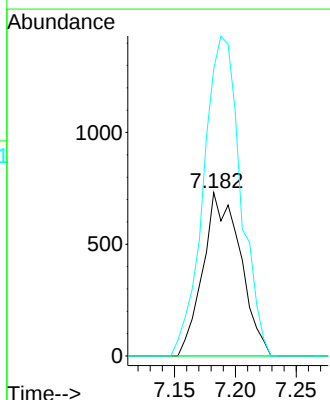
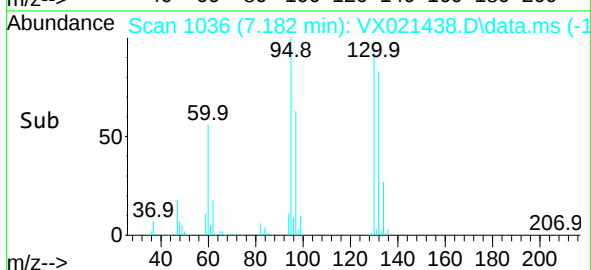
Tgt Ion:117 Resp: 7503  
Ion Ratio Lower Upper  
117 100  
119 5.8 76.2 114.2#  
121 0.0 24.8 37.2#

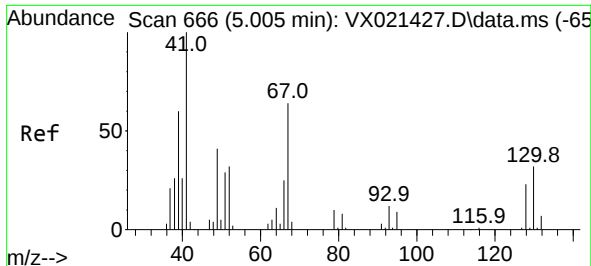


#39  
Methylcyclohexane  
Concen: 1.17 ug/l  
RT: 7.182 min Scan# 1036  
Delta R.T. -0.253 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10



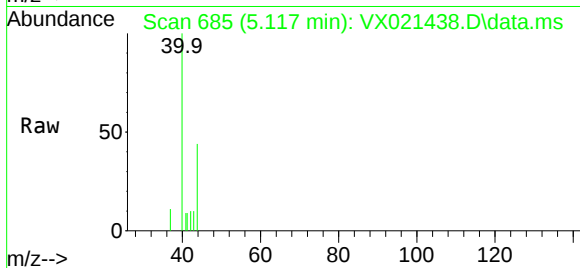
Tgt Ion: 83 Resp: 1563  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 175.6 38.1 57.1#



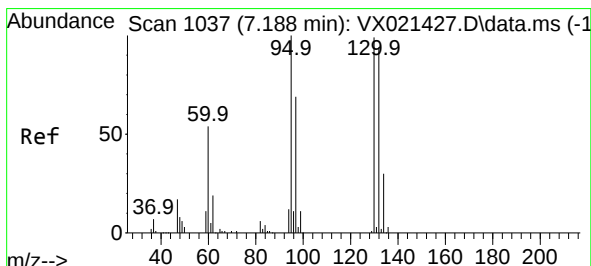
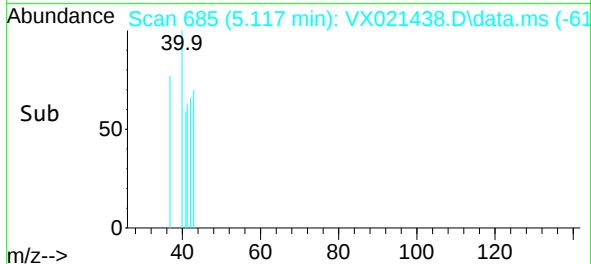
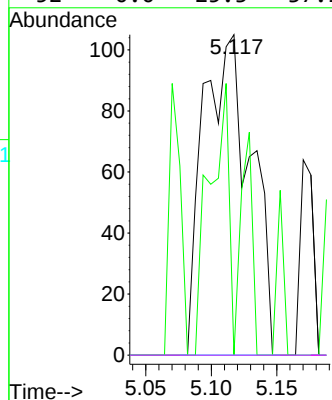


#41  
Methacrylonitrile  
Concen: 0.33 ug/l  
RT: 5.117 min Scan# 685  
Delta R.T. 0.112 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Instrument :  
MSVOA\_X  
ClientSampled :

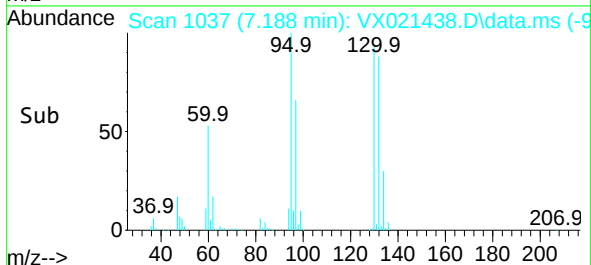
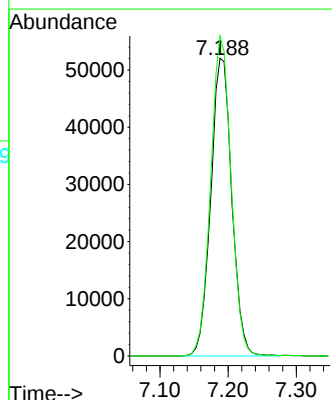
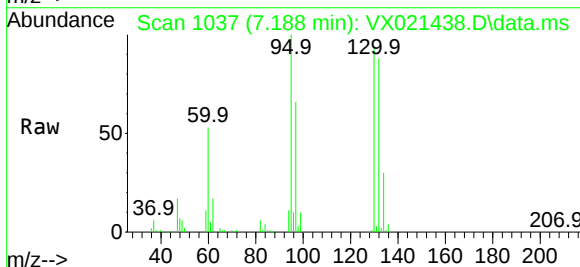


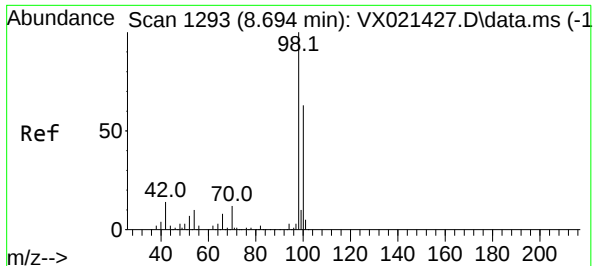
| Tgt Ion: | 41    | Resp: | 265   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 34.7  | 42.5  | 63.7# |
| 67       | 0.0   | 65.0  | 97.6# |
| 52       | 0.0   | 25.3  | 37.9# |



#44  
Trichloroethene  
Concen: 123.81 ug/l  
RT: 7.188 min Scan# 1037  
Delta R.T. 0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

| Tgt Ion: | 130   | Resp: | 111768 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 107.5 | 0.0   | 198.0  |





#50

Toluene-d8

Concen: 49.90 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. 0.000 min

Lab File: VX021438.D

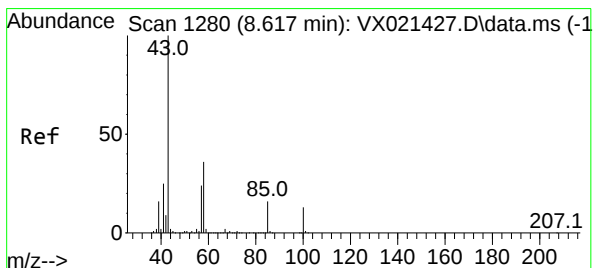
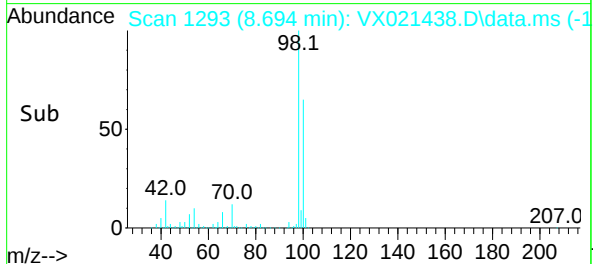
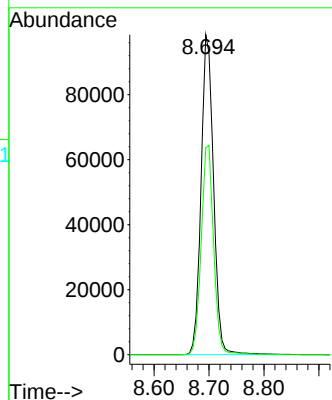
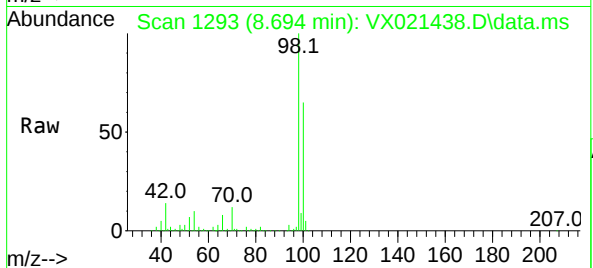
Acq: 24 Mar 2021 16:10

Tgt Ion: 98 Resp: 155296

Ion Ratio Lower Upper

98 100

100 65.2 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.74 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. 0.077 min

Lab File: VX021438.D

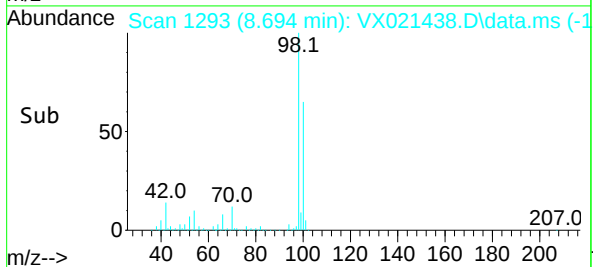
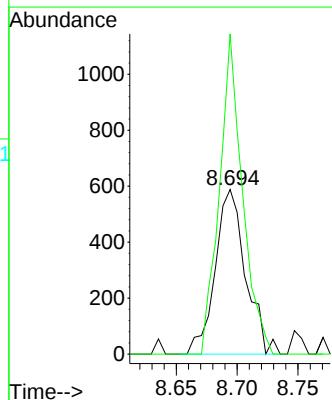
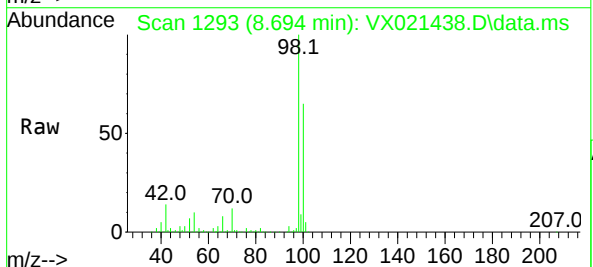
Acq: 24 Mar 2021 16:10

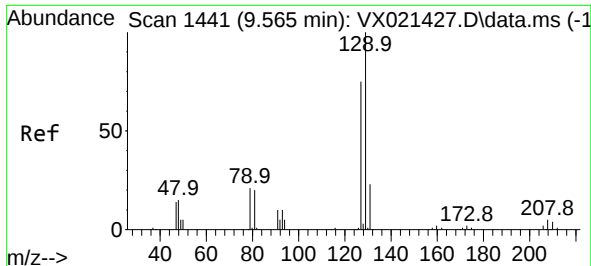
Tgt Ion: 43 Resp: 1024

Ion Ratio Lower Upper

43 100

58 147.9 35.4 53.0#

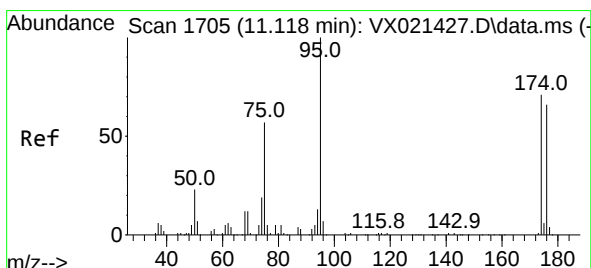
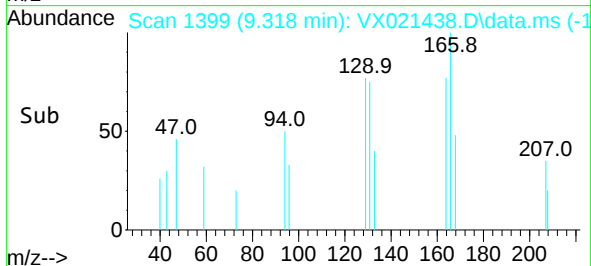
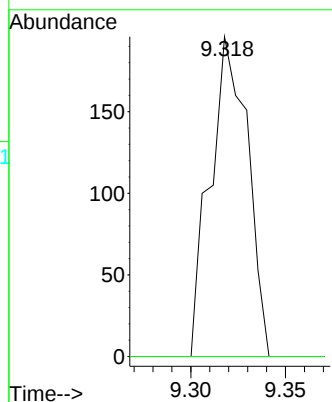
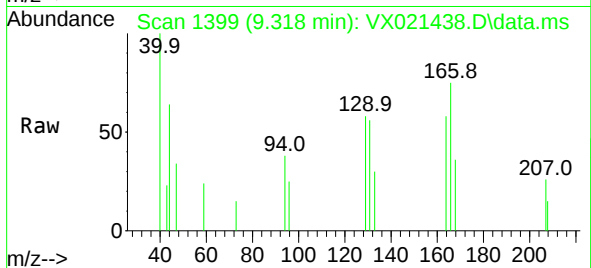




#60  
Dibromochloromethane  
Concen: 0.27 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.247 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

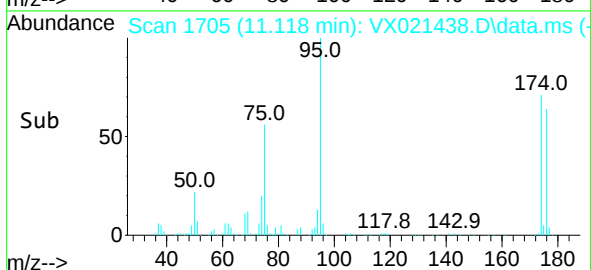
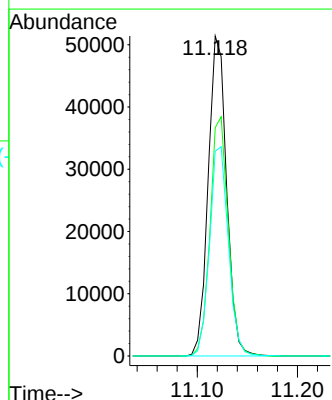
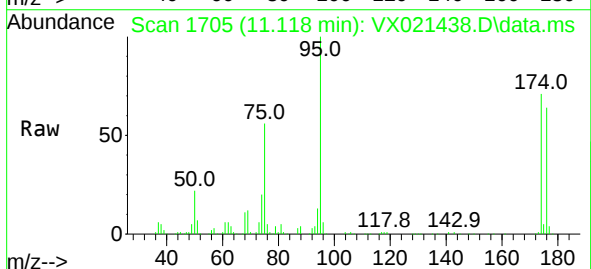
Instrument :  
MSVOA\_X  
ClientSampled :

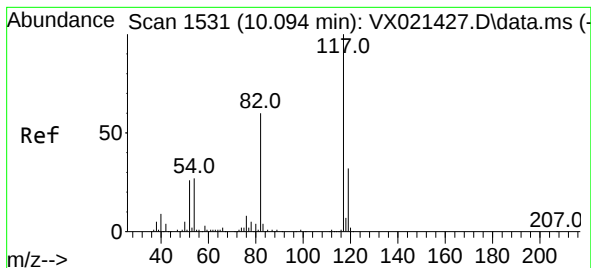
Tgt Ion:129 Resp: 270  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#



#62  
4-Bromofluorobenzene  
Concen: 54.11 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Tgt Ion: 95 Resp: 65470  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 154.6  
176 66.8 0.0 155.8

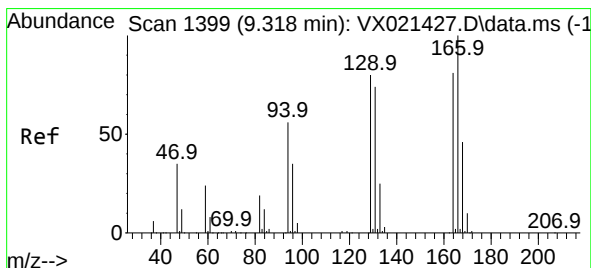
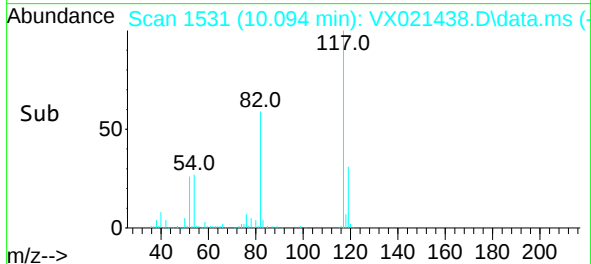
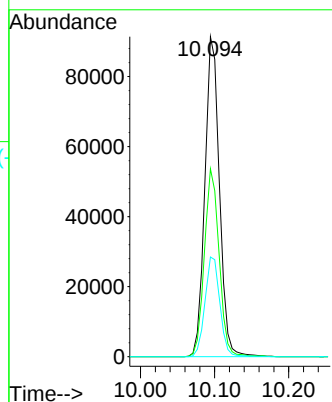
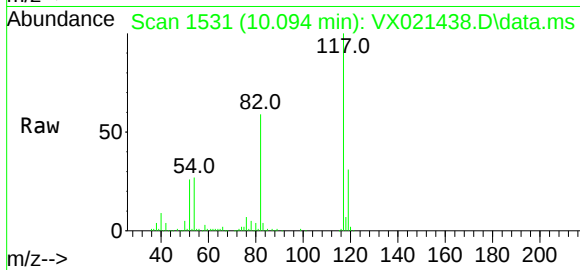




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

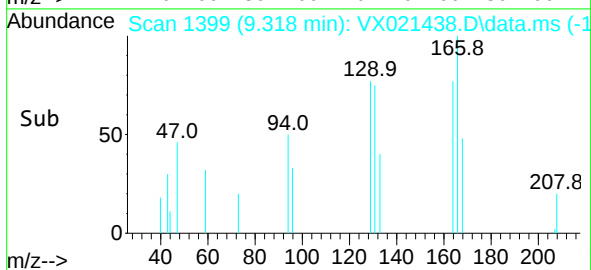
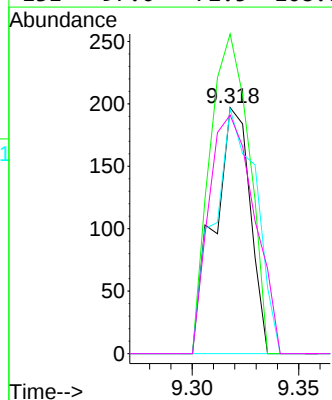
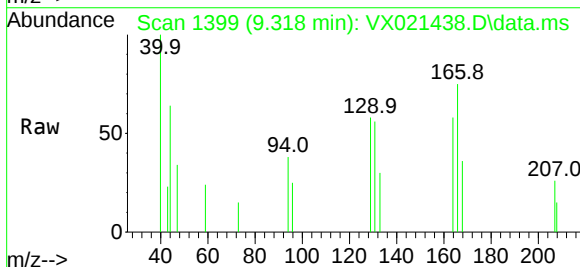
Instrument :  
MSVOA\_X  
ClientSampleId :

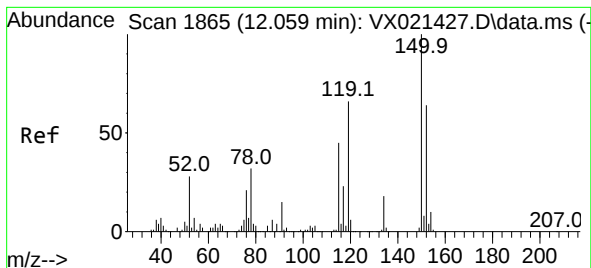
Tgt Ion:117 Resp: 125079  
Ion Ratio Lower Upper  
117 100  
82 58.7 47.4 71.2  
119 31.1 26.6 39.8



#64  
Tetrachloroethene  
Concen: 0.28 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Tgt Ion:164 Resp: 232  
Ion Ratio Lower Upper  
164 100  
166 129.9 103.4 155.2  
129 99.5 70.8 106.2  
131 97.0 72.5 108.7

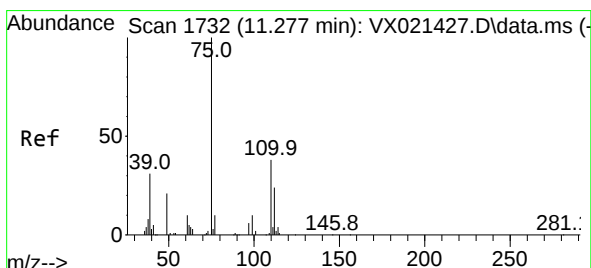
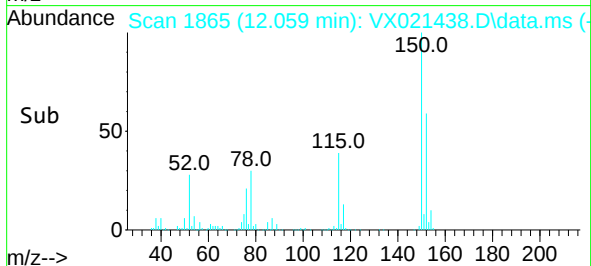
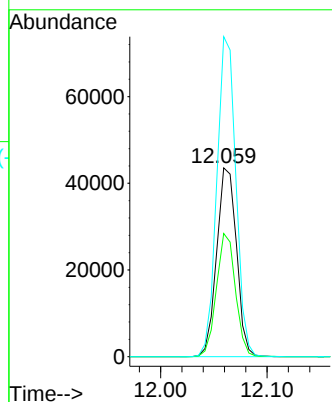
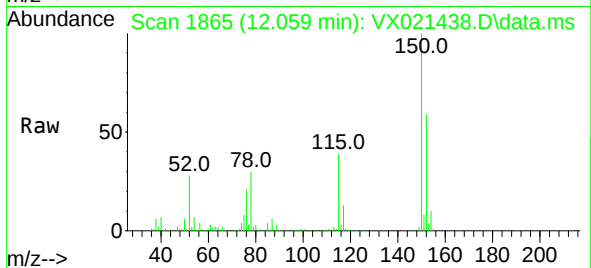




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.059 min Scan# 1865  
 Delta R.T. 0.000 min  
 Lab File: VX021438.D  
 Acq: 24 Mar 2021 16:10

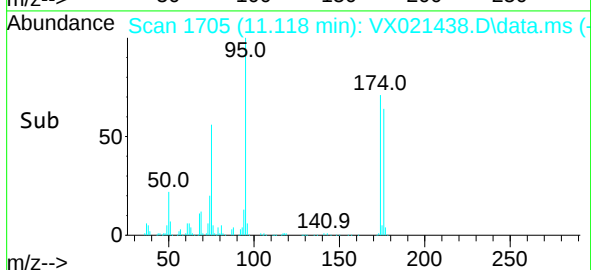
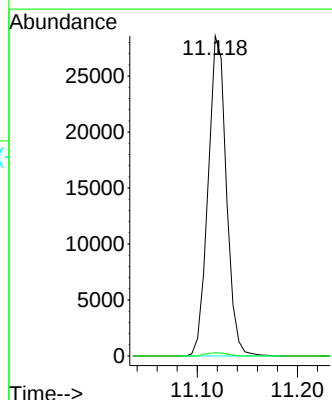
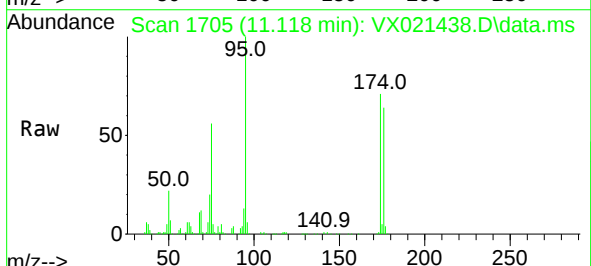
Instrument :  
 MSVOA\_X  
 ClientSampled :

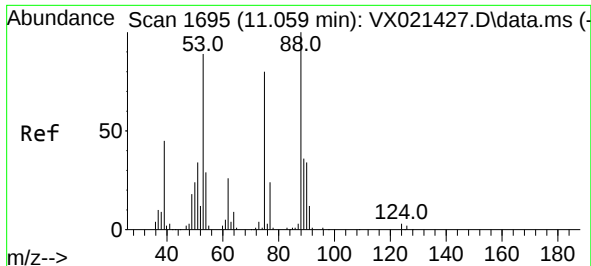
Tgt Ion:152 Resp: 56188  
 Ion Ratio Lower Upper  
 152 100  
 115 62.6 41.1 123.3  
 150 162.9 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 27.58 ug/l  
 RT: 11.118 min Scan# 1705  
 Delta R.T. -0.159 min  
 Lab File: VX021438.D  
 Acq: 24 Mar 2021 16:10

Tgt Ion: 75 Resp: 36074  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#

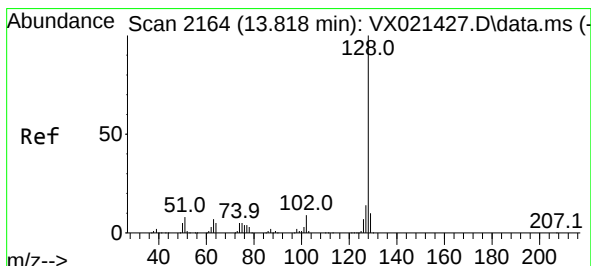
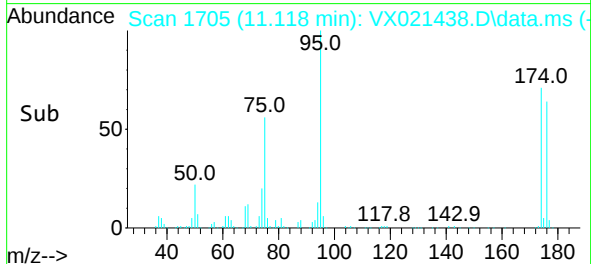
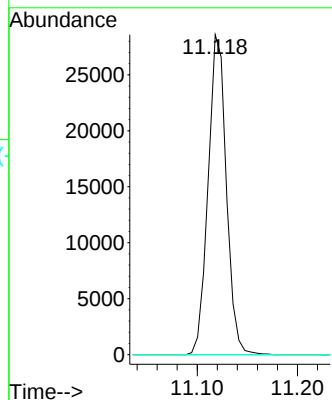
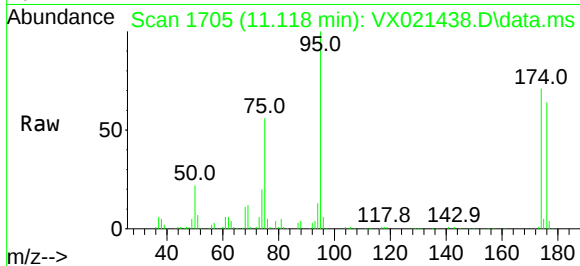




#81  
trans-1,4-Dichloro-2-butene  
Concen: 84.00 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 75 Resp: 36074  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#



#95  
Naphthalene  
Concen: 0.38 ug/l  
RT: 13.818 min Scan# 2164  
Delta R.T. 0.000 min  
Lab File: VX021438.D  
Acq: 24 Mar 2021 16:10

Tgt Ion:128 Resp: 1409  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.3 15.5  
129 10.5 8.8 13.2

