

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032421\  
 Data File : VX021463.D  
 Acq On : 25 Mar 2021 02:59  
 Operator : JC/MD  
 Sample : M1770-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-101D

Quant Time: Mar 25 06:55:12 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

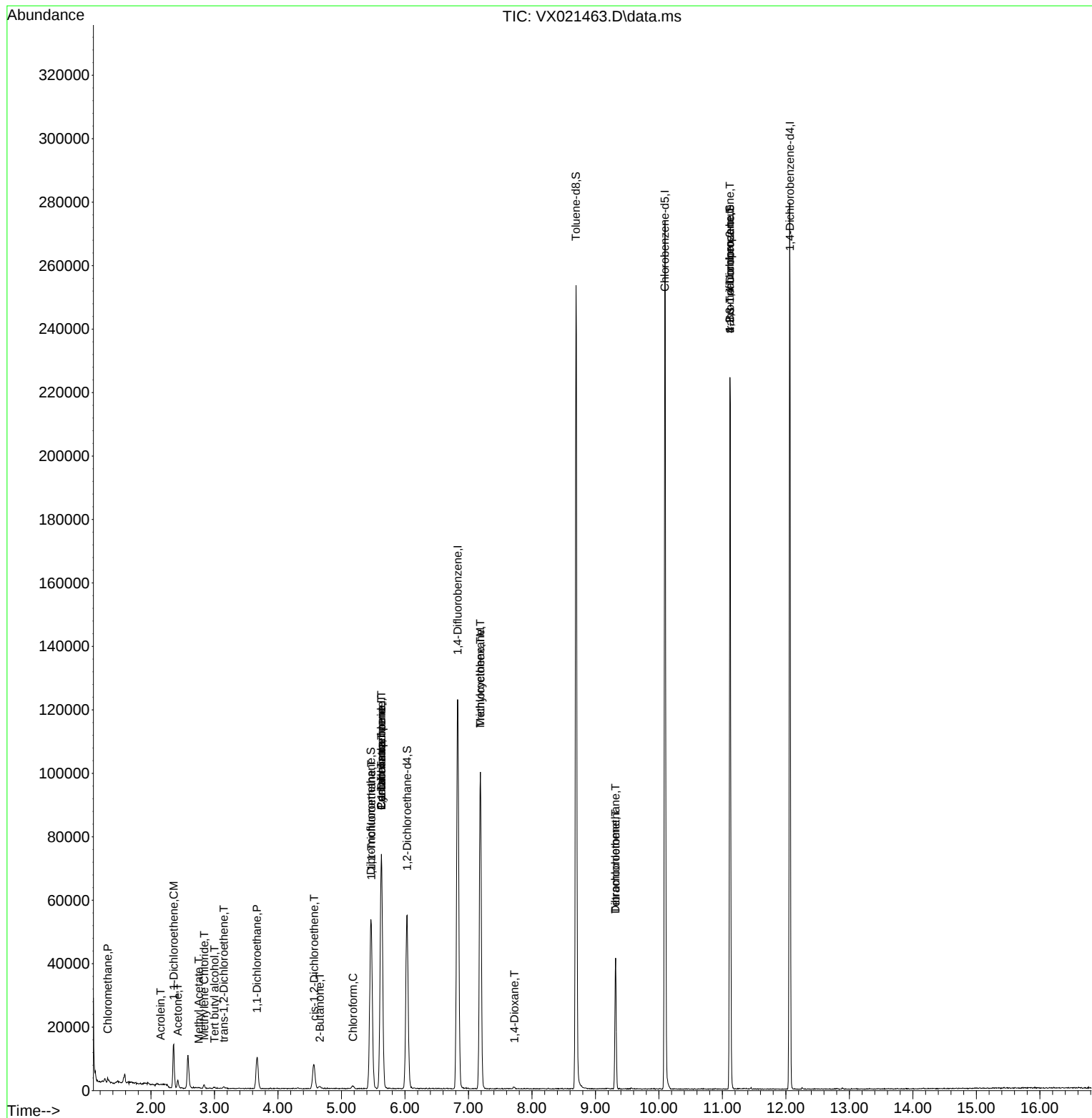
| Compound                      | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                         |                |      |                    |       |        |          |
| Internal Standards            |                |      |                    |       |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 62580              | 50.00 | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.829          | 114  | 114996             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094         | 117  | 116247             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.065         | 152  | 50564              | 50.00 | ug/l   | 0.00     |
|                               |                |      |                    |       |        |          |
| System Monitoring Compounds   |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.035          | 65   | 54083              | 51.94 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 103.88% |       |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 41134              | 50.36 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.72% |       |        |          |
| 50) Toluene-d8                | 8.694          | 98   | 145753             | 50.07 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 100.14% |       |        |          |
| 62) 4-Bromofluorobenzene      | 11.118         | 95   | 58453              | 51.65 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 103.30% |       |        |          |
|                               |                |      |                    |       |        |          |
| Target Compounds              |                |      |                    |       |        | Qvalue   |
| 3) Chloromethane              | 1.317          | 50   | 1885               | 2.42  | ug/l   | 97       |
| 11) Tert butyl alcohol        | 2.999          | 59   | 327                | 1.90  | ug/l # | 73       |
| 12) 1,1-Dichloroethene        | 2.358          | 96   | 4267               | 6.77  | ug/l   | 86       |
| 13) Acrolein                  | 2.152          | 56   | 18                 | 4.50  | ug/l # | 30       |
| 16) Acetone                   | 2.423          | 43   | 2491               | 6.33  | ug/l # | 85       |
| 18) Methyl Acetate            | 2.752          | 43   | 285                | 0.25  | ug/l # | 47       |
| 20) Methylene Chloride        | 2.840          | 84   | 398                | 0.52  | ug/l # | 96       |
| 21) trans-1,2-Dichloroethene  | 3.146          | 96   | 204                | 0.29  | ug/l # | 79       |
| 24) 1,1-Dichloroethane        | 3.670          | 63   | 11172              | 8.33  | ug/l   | 98       |
| 25) 2-Butanone                | 4.658          | 43   | 173                | 0.29  | ug/l # | 45       |
| 27) cis-1,2-Dichloroethene    | 4.570          | 96   | 4453               | 5.54  | ug/l   | 98       |
| 30) Chloroform                | 5.182          | 83   | 980                | 0.69  | ug/l   | 90       |
| 31) Cyclohexane               | 5.629          | 56   | 1749               | 1.53  | ug/l # | 42       |
| 32) 1,1,1-Trichloroethane     | 5.470          | 97   | 3678               | 2.93  | ug/l # | 93       |
| 36) 1,1-Dichloropropene       | 5.629          | 75   | 5718               | 5.07  | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 6889               | 5.69  | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.188          | 83   | 479                | 0.38  | ug/l # | 1        |
| 44) Trichloroethene           | 7.188          | 130  | 34921              | 41.36 | ug/l   | 92       |
| 49) 1,4-Dioxane               | 7.723          | 88   | 404                | 20.00 | ug/l # | 81       |
| 60) Dibromochloromethane      | 9.318          | 129  | 7172               | 7.68  | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.318          | 164  | 7046               | 9.05  | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane    | 11.118         | 75   | 33048              | 28.07 | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.118         | 75   | 33048              | 85.52 | ug/l # | 12       |
| -----                         |                |      |                    |       |        |          |

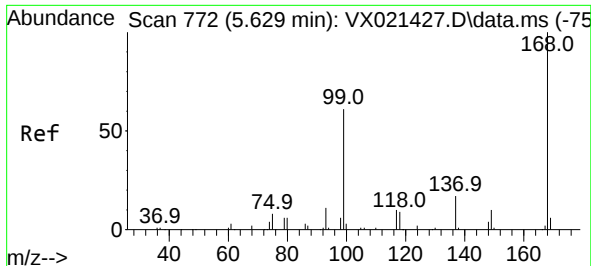
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 45 Sample Multiplier: 1

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ClientSampled :  
MW-101D

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Quant Title : SW846 8260  
QLast Update : Wed Mar 24 12:25:26 2021  
Response via : Initial Calibration

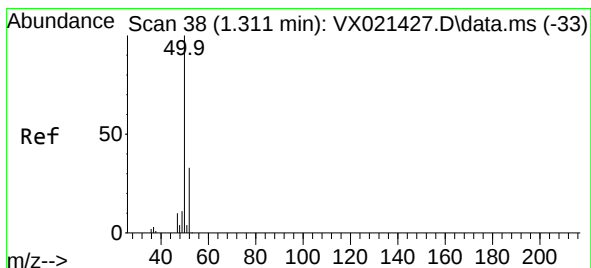
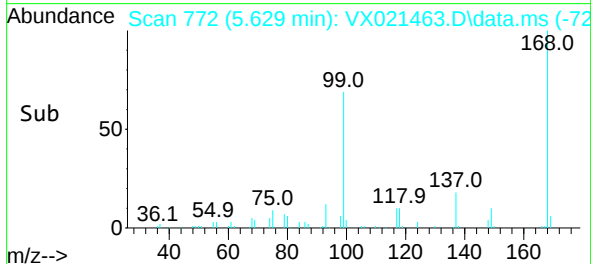
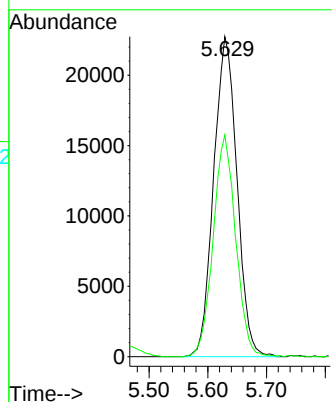
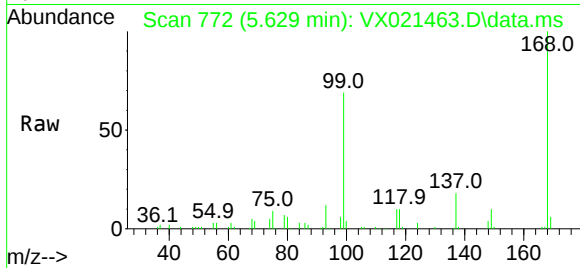




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

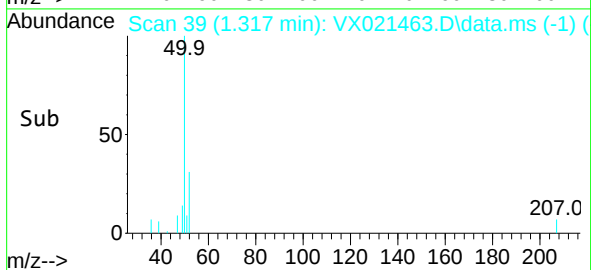
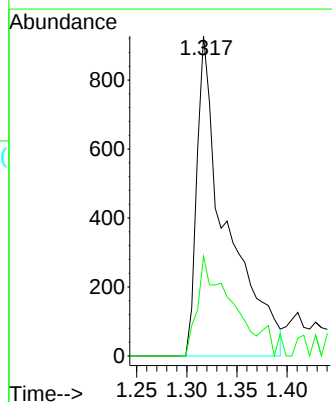
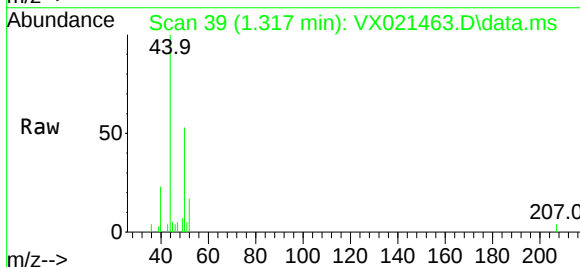
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-101D

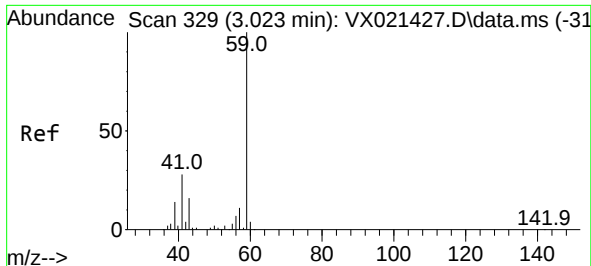
Tgt Ion:168 Resp: 62580  
Ion Ratio Lower Upper  
168 100  
99 69.3 45.8 68.6#



#3  
Chloromethane  
Concen: 2.42 ug/l  
RT: 1.317 min Scan# 39  
Delta R.T. 0.006 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 50 Resp: 1885  
Ion Ratio Lower Upper  
50 100  
52 31.1 26.4 39.6

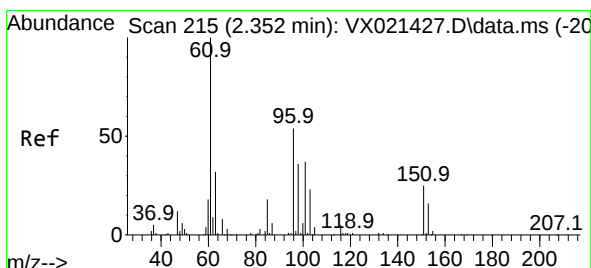
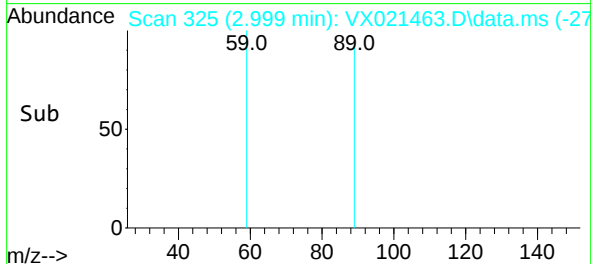
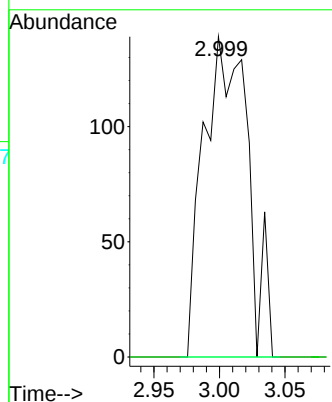
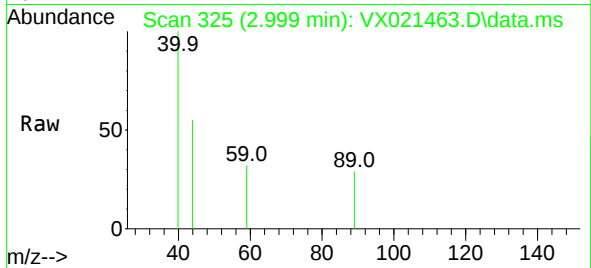




#11  
Tert butyl alcohol  
Concen: 1.90 ug/l  
RT: 2.999 min Scan# 325  
Delta R.T. -0.024 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

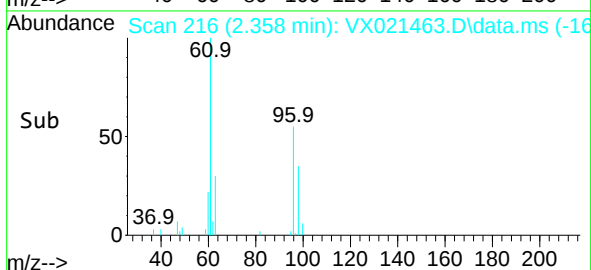
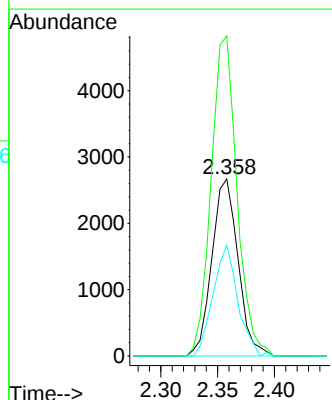
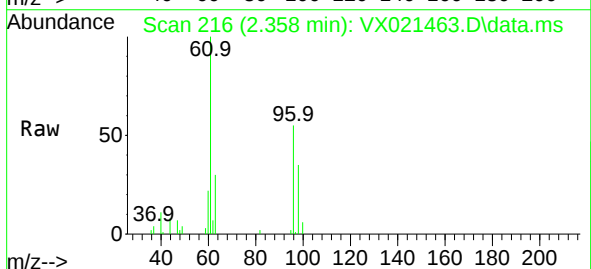
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-101D

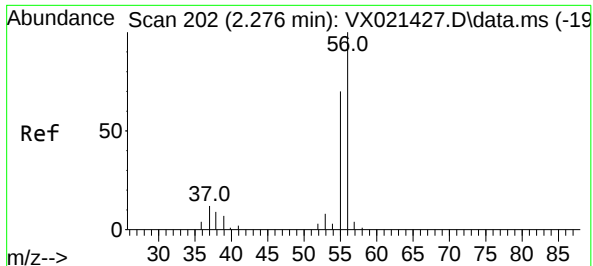
Tgt Ion: 59 Resp: 327  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#12  
1,1-Dichloroethene  
Concen: 6.77 ug/l  
RT: 2.358 min Scan# 216  
Delta R.T. 0.006 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 96 Resp: 4267  
Ion Ratio Lower Upper  
96 100  
61 180.9 124.6 187.0  
98 62.7 50.6 76.0

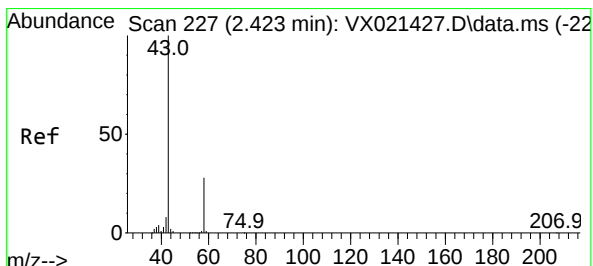
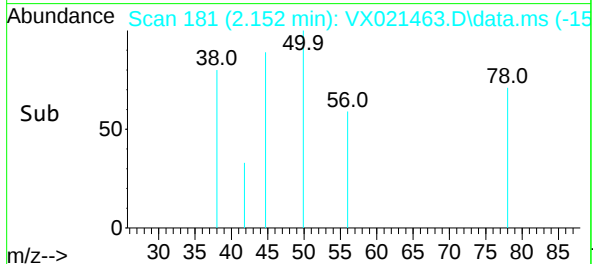
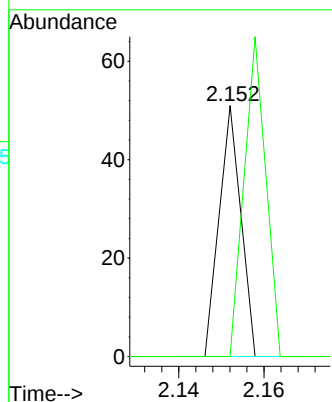
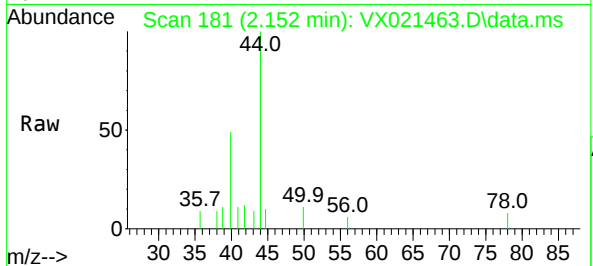




#13  
Acrolein  
Concen: 4.50 ug/l  
RT: 2.152 min Scan# 181  
Delta R.T. -0.124 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

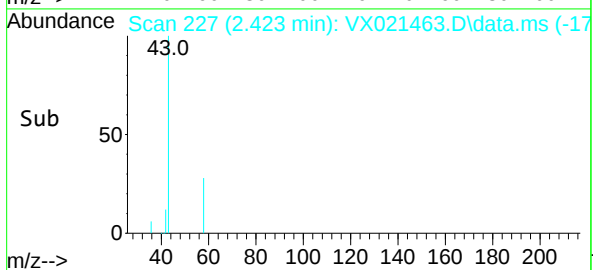
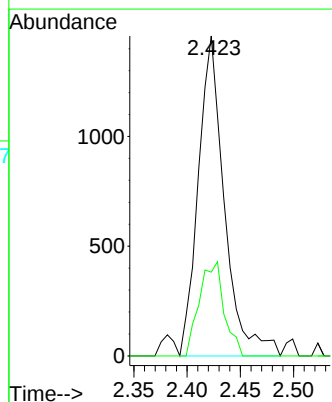
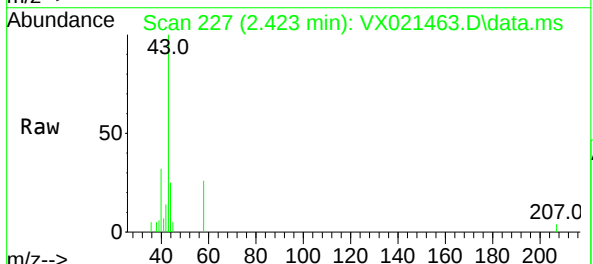
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-101D

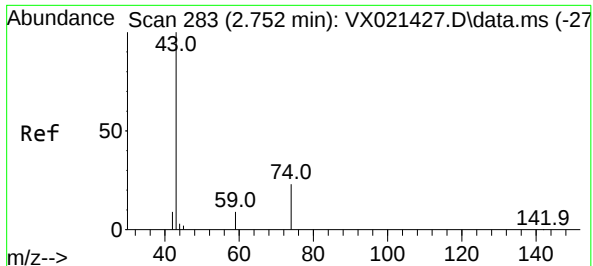
Tgt Ion: 56 Resp: 18  
Ion Ratio Lower Upper  
56 100  
55 127.8 56.4 84.6#



#16  
Acetone  
Concen: 6.33 ug/l  
RT: 2.423 min Scan# 227  
Delta R.T. -0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 43 Resp: 2491  
Ion Ratio Lower Upper  
43 100  
58 26.2 27.8 41.8#





#18

Methyl Acetate

Concen: 0.25 ug/l

RT: 2.752 min Scan# 283

Delta R.T. 0.000 min

Lab File: VX021463.D

Acq: 25 Mar 2021 02:59

Instrument :

MSVOA\_X

ClientSampleId :

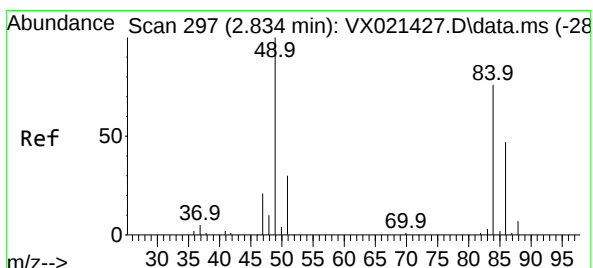
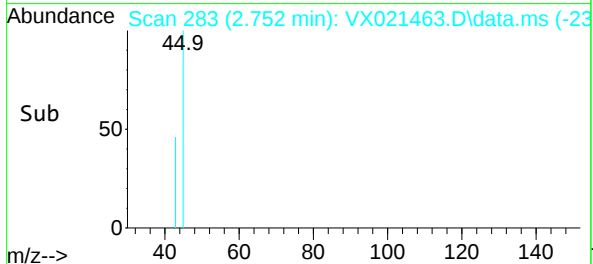
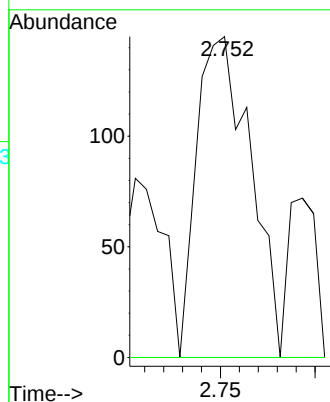
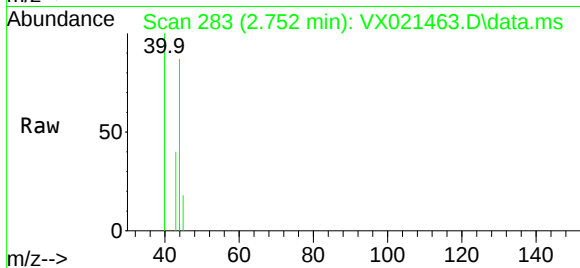
MW-101D

Tgt Ion: 43 Resp: 285

Ion Ratio Lower Upper

43 100

74 0.0 21.9 32.9#



#20

Methylene Chloride

Concen: 0.52 ug/l

RT: 2.840 min Scan# 298

Delta R.T. 0.006 min

Lab File: VX021463.D

Acq: 25 Mar 2021 02:59

Tgt Ion: 84 Resp: 398

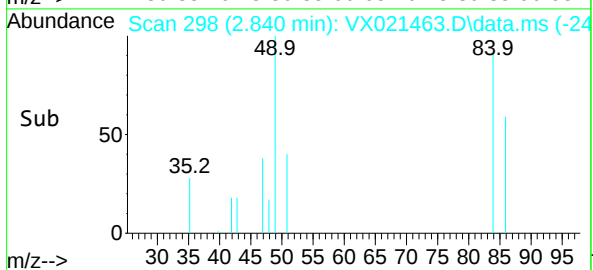
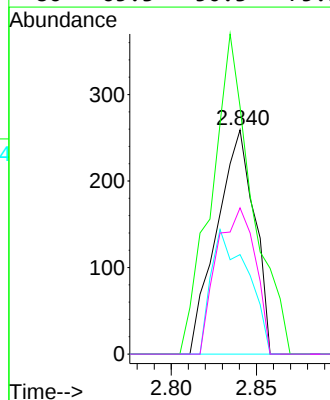
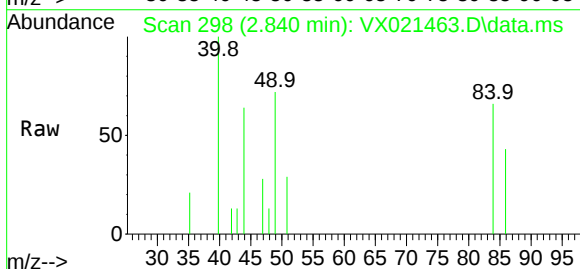
Ion Ratio Lower Upper

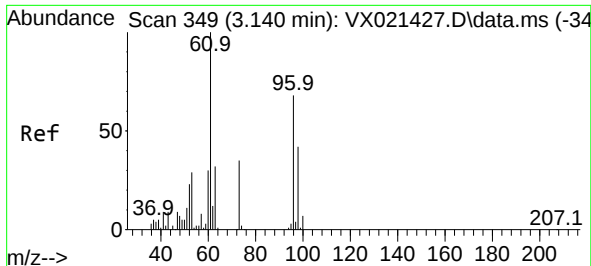
84 100

49 110.4 88.6 132.8

51 44.4 27.0 40.6#

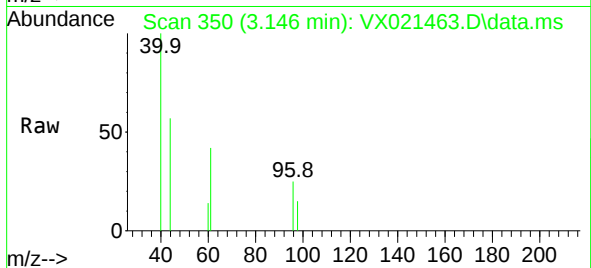
86 65.3 50.3 75.5



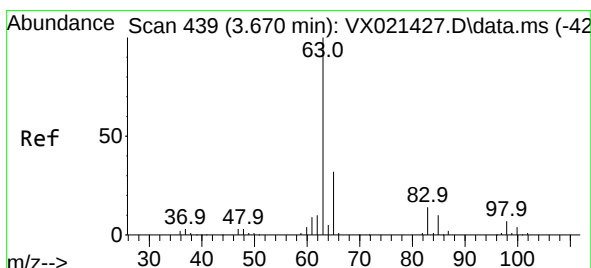
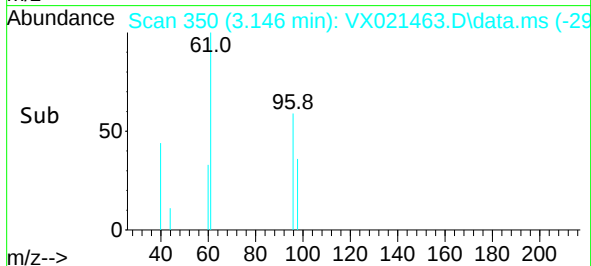
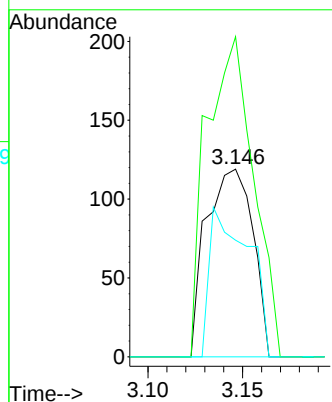


#21  
trans-1,2-Dichloroethene  
Concen: 0.29 ug/l  
RT: 3.146 min Scan# 350  
Delta R.T. 0.006 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-101D

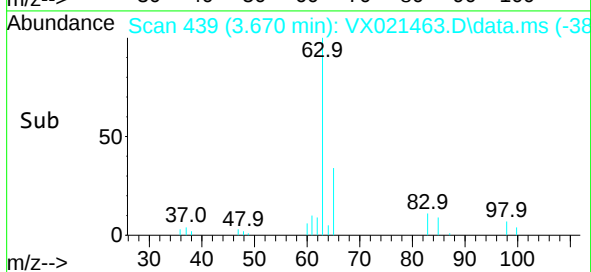
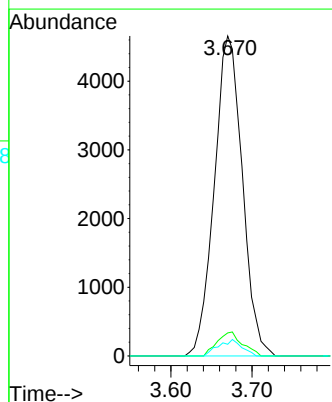
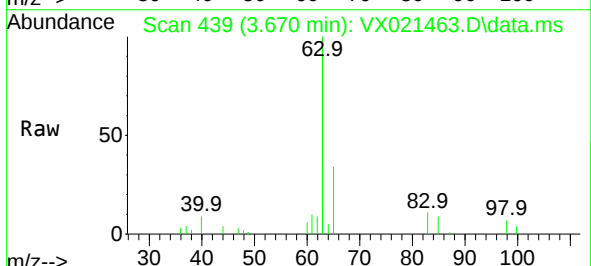


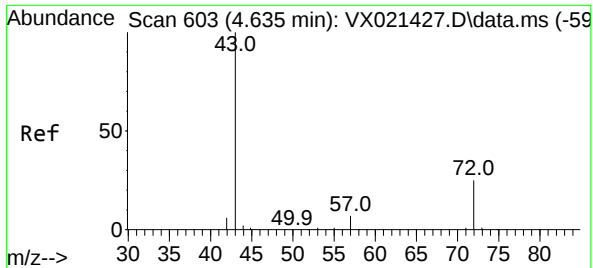
Tgt Ion: 96 Resp: 204  
Ion Ratio Lower Upper  
96 100  
61 170.6 107.7 161.5#  
98 62.2 50.4 75.6



#24  
1,1-Dichloroethane  
Concen: 8.33 ug/l  
RT: 3.670 min Scan# 439  
Delta R.T. -0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 63 Resp: 11172  
Ion Ratio Lower Upper  
63 100  
98 7.2 3.8 11.2  
100 3.6 2.5 7.5

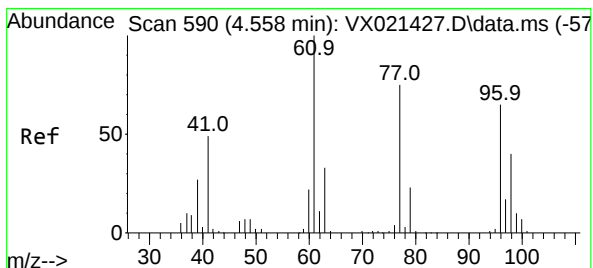
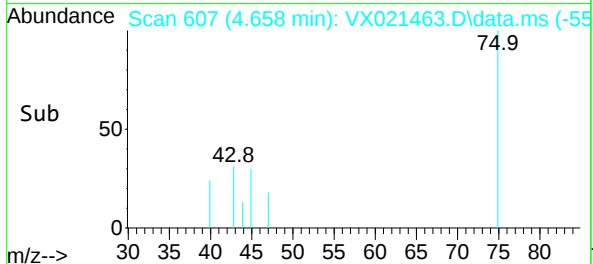
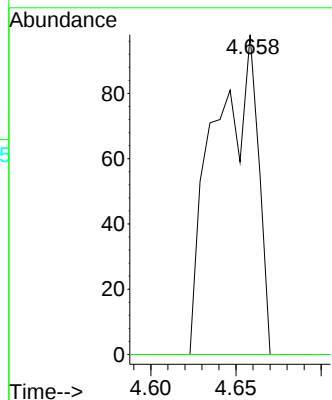
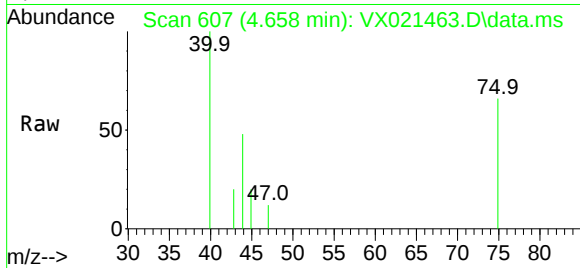




#25  
2-Butanone  
Concen: 0.29 ug/l  
RT: 4.658 min Scan# 607  
Delta R.T. 0.023 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

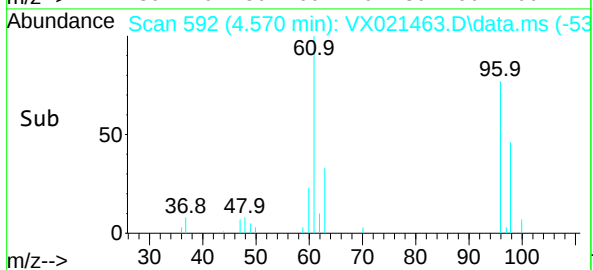
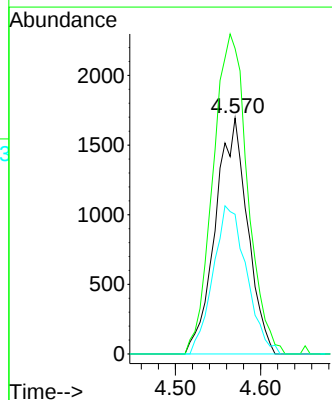
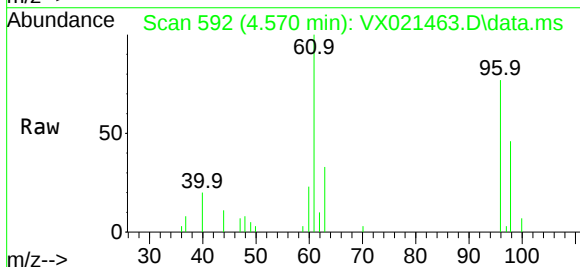
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-101D

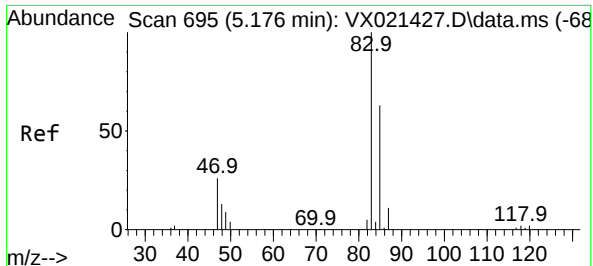
Tgt Ion: 43 Resp: 173  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#



#27  
cis-1,2-Dichloroethene  
Concen: 5.54 ug/l  
RT: 4.570 min Scan# 592  
Delta R.T. 0.012 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 96 Resp: 4453  
Ion Ratio Lower Upper  
96 100  
61 145.7 0.0 285.6  
98 64.9 0.0 129.6





#30

Chloroform

Concen: 0.69 ug/l

RT: 5.182 min Scan# 696

Delta R.T. 0.006 min

Lab File: VX021463.D

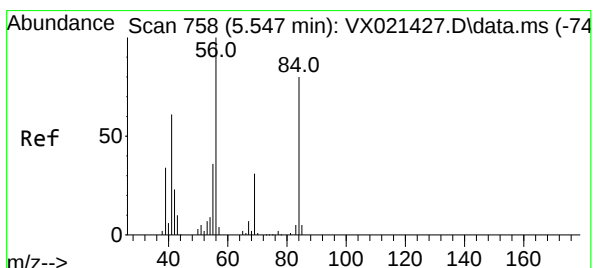
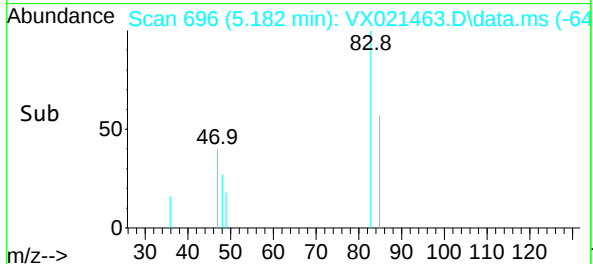
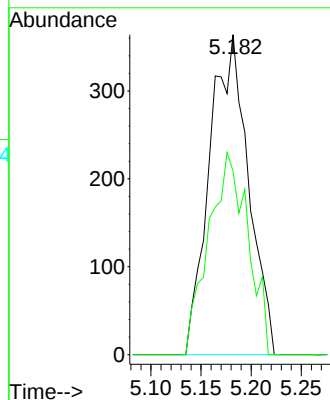
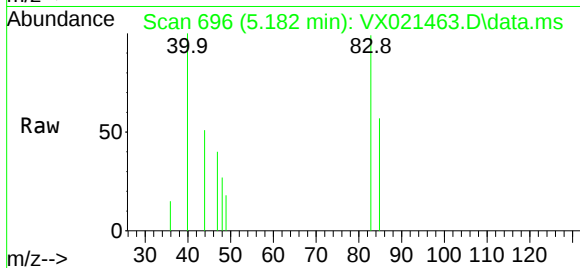
Acq: 25 Mar 2021 02:59

Tgt Ion: 83 Resp: 980

Ion Ratio Lower Upper

83 100

85 57.4 52.0 78.0



#31

Cyclohexane

Concen: 1.53 ug/l

RT: 5.629 min Scan# 772

Delta R.T. 0.082 min

Lab File: VX021463.D

Acq: 25 Mar 2021 02:59

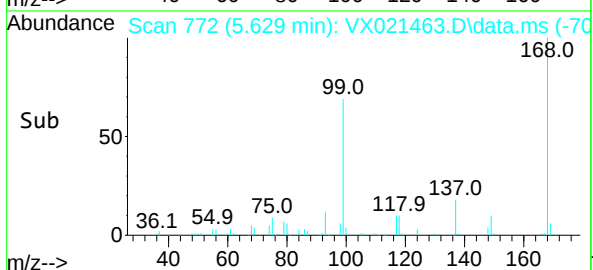
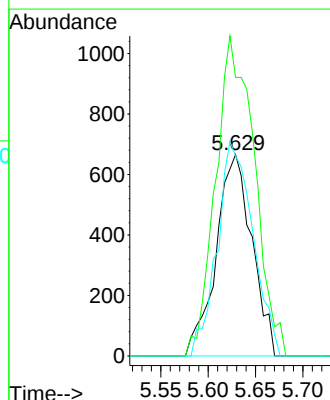
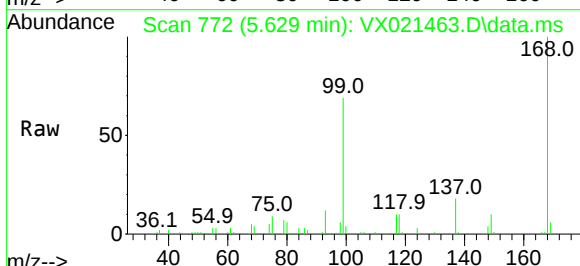
Tgt Ion: 56 Resp: 1749

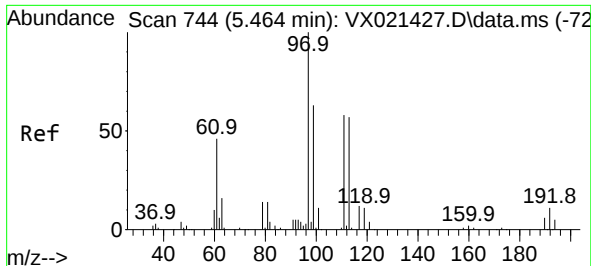
Ion Ratio Lower Upper

56 100

69 138.3 25.3 37.9#

84 99.2 71.4 107.0

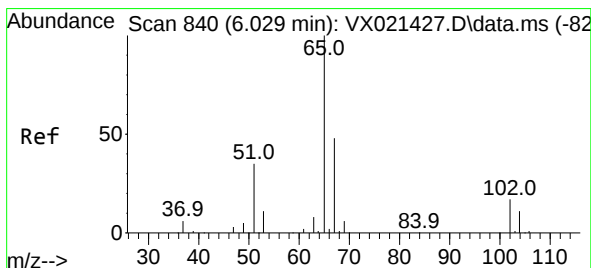
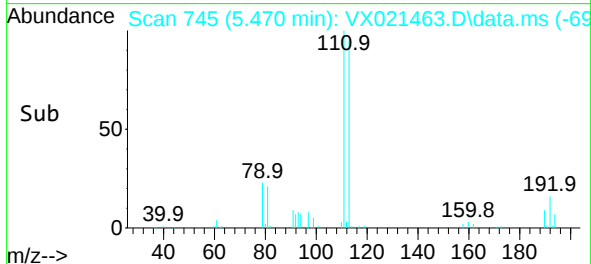
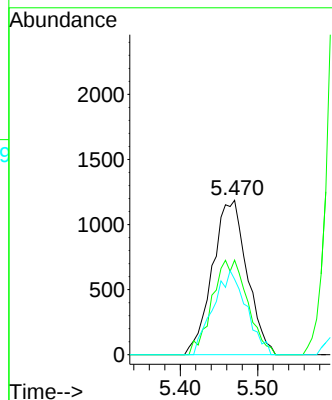
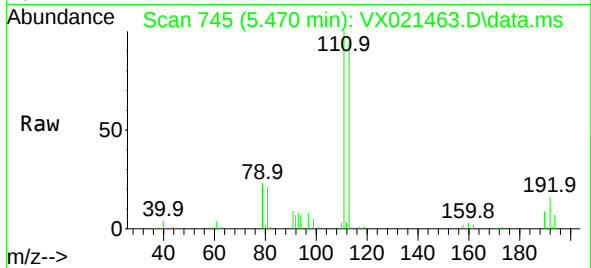




#32  
1,1,1-Trichloroethane  
Concen: 2.93 ug/l  
RT: 5.470 min Scan# 745  
Delta R.T. 0.006 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

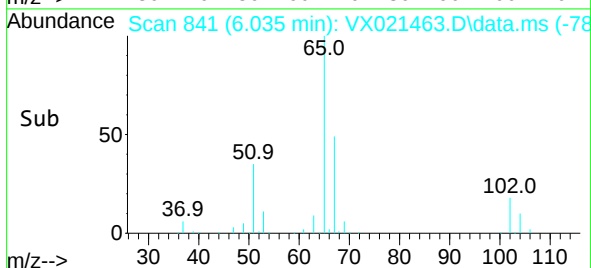
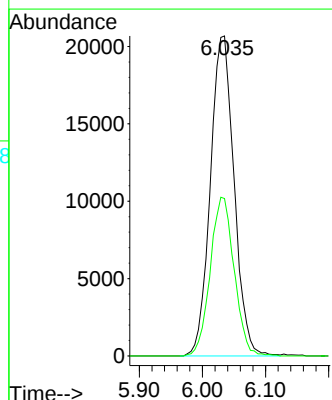
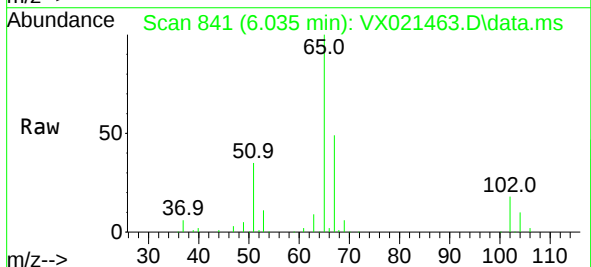
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-101D

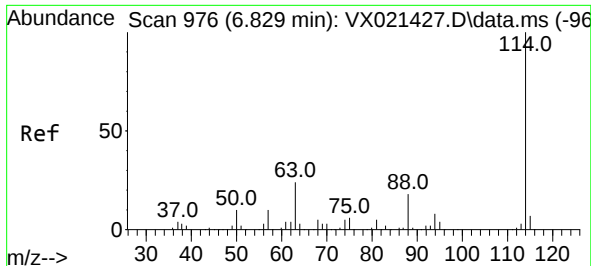
Tgt Ion: 97 Resp: 3678  
Ion Ratio Lower Upper  
97 100  
99 62.6 51.5 77.3  
61 52.4 34.2 51.4#



#33  
1,2-Dichloroethane-d4  
Concen: 51.94 ug/l  
RT: 6.035 min Scan# 841  
Delta R.T. 0.006 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 65 Resp: 54083  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 105.4

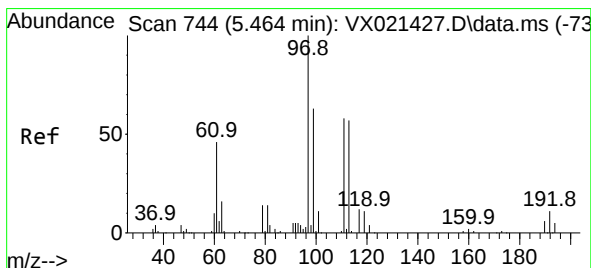
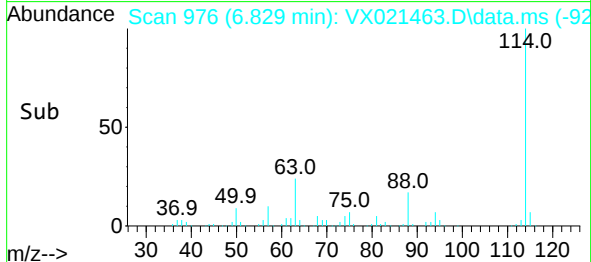
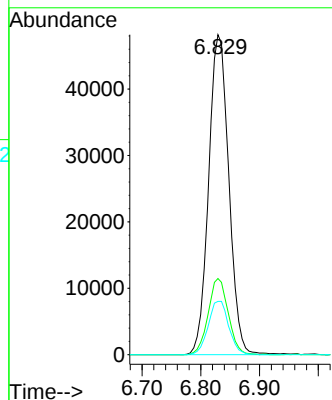
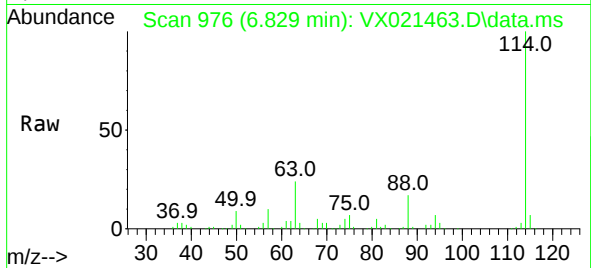




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.829 min Scan# 976  
Delta R.T. 0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

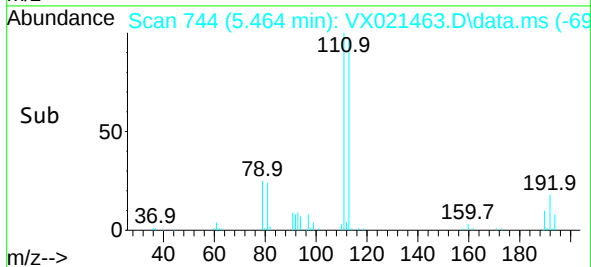
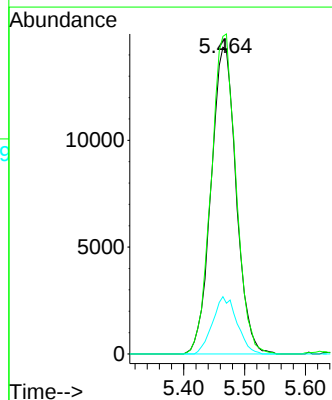
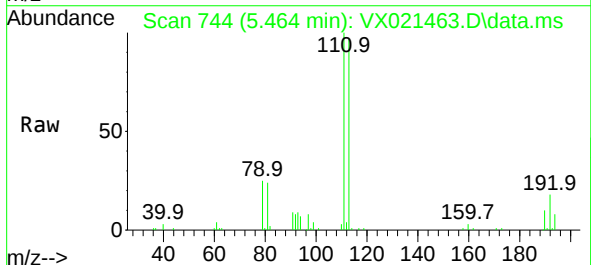
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-101D

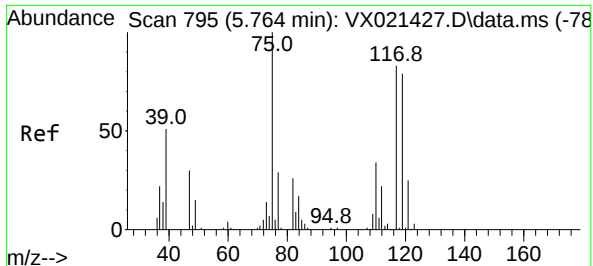
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 114996 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 23.8  | 0.0   | 40.8   |
| 88        | 16.6  | 0.0   | 32.8   |



#35  
Dibromofluoromethane  
Concen: 50.36 ug/l  
RT: 5.464 min Scan# 744  
Delta R.T. 0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 41134 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 103.0 | 81.9  | 122.9 |
| 192       | 18.2  | 16.7  | 25.1  |





#36

1,1-Dichloropropene

Concen: 5.07 ug/l

RT: 5.629 min Scan# 772

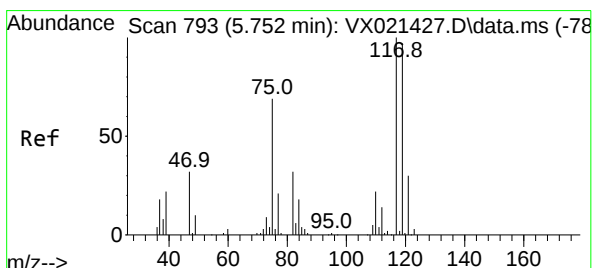
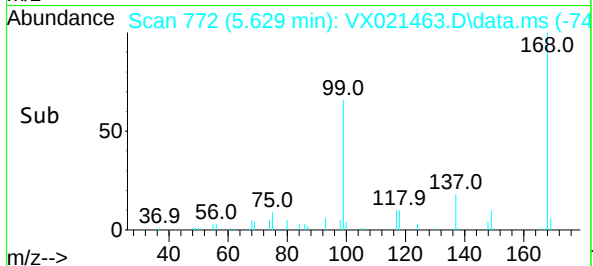
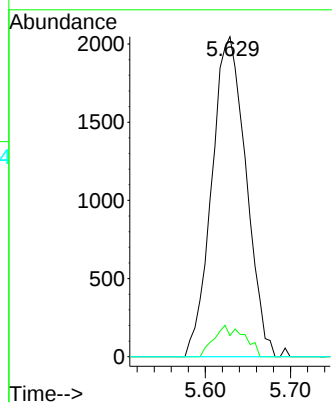
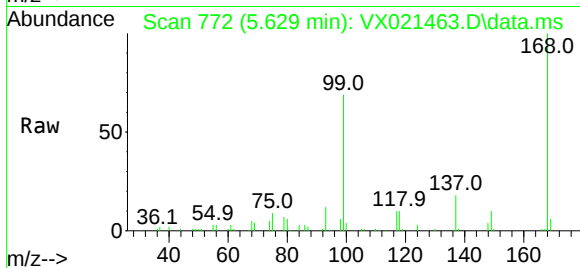
Delta R.T. -0.135 min

Lab File: VX021463.D

Acq: 25 Mar 2021 02:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 5718  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.6   | 18.1  | 54.4# |
| 77       | 0.0   | 25.3  | 37.9# |

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-101D



#38

Carbon Tetrachloride

Concen: 5.69 ug/l

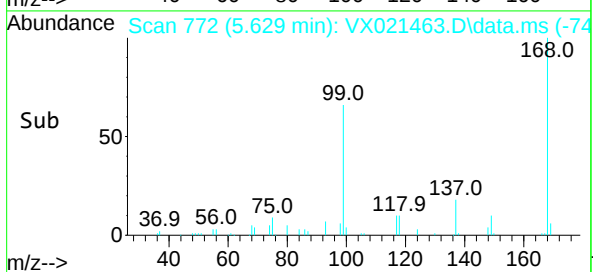
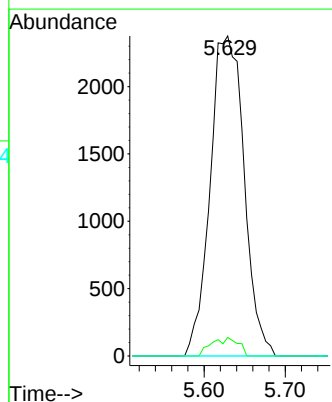
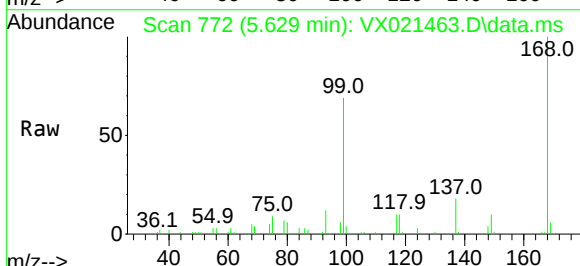
RT: 5.629 min Scan# 772

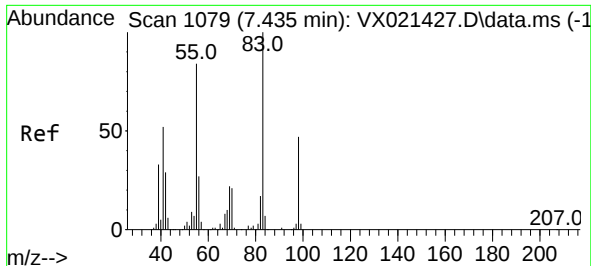
Delta R.T. -0.123 min

Lab File: VX021463.D

Acq: 25 Mar 2021 02:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 6889   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.8   | 76.2  | 114.2# |
| 121      | 0.0   | 24.8  | 37.2#  |





#39

Methylcyclohexane

Concen: 0.38 ug/l

RT: 7.188 min Scan# 1037

Delta R.T. -0.247 min

Lab File: VX021463.D

Acq: 25 Mar 2021 02:59

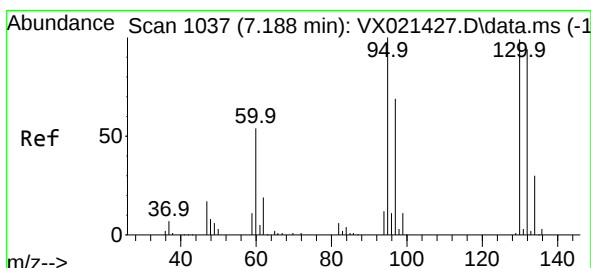
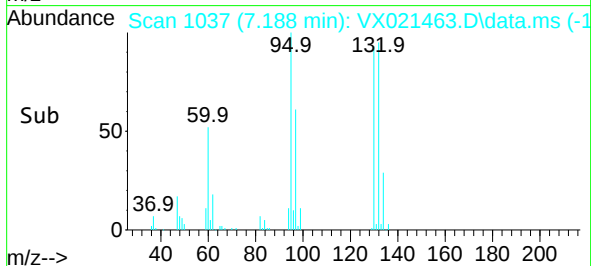
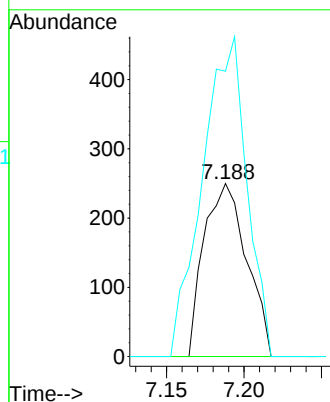
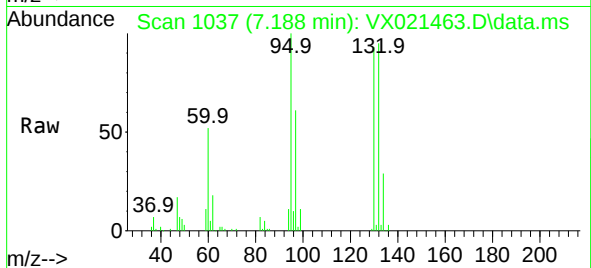
Instrument :

MSVOA\_X

ClientSampleId :

MW-101D

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 479   |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 55 0.0      | 58.9 88.3#  |
| 98 164.8    | 38.1 57.1#  |



#44

Trichloroethene

Concen: 41.36 ug/l

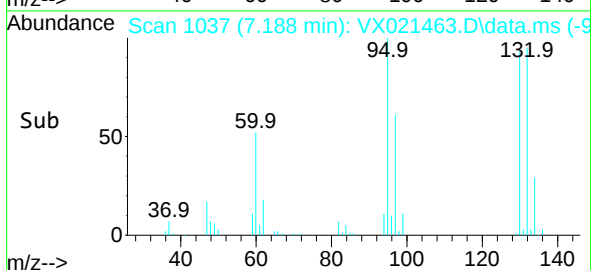
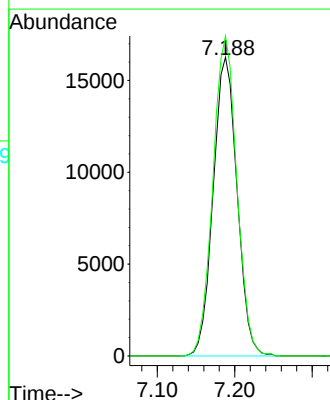
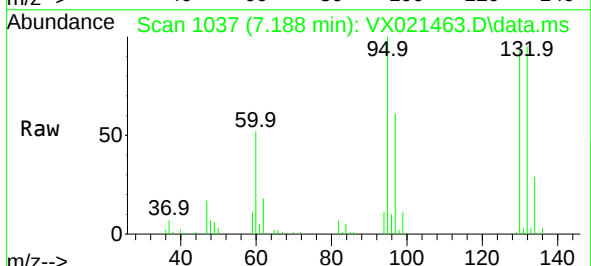
RT: 7.188 min Scan# 1037

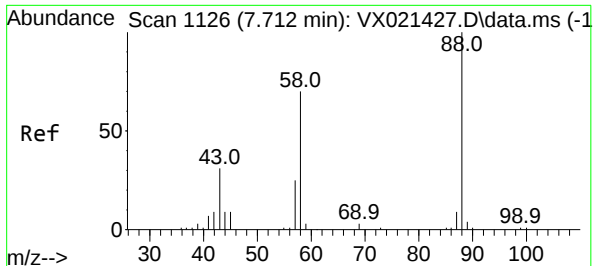
Delta R.T. -0.000 min

Lab File: VX021463.D

Acq: 25 Mar 2021 02:59

|              |             |
|--------------|-------------|
| Tgt Ion: 130 | Resp: 34921 |
| Ion Ratio    | Lower Upper |
| 130 100      |             |
| 95 107.1     | 0.0 198.0   |

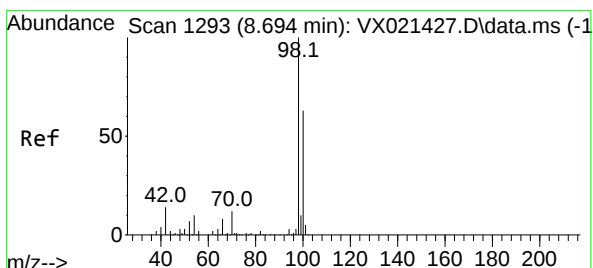
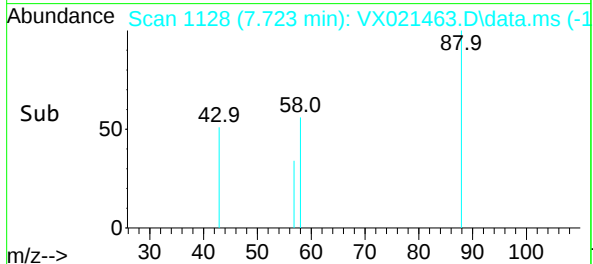
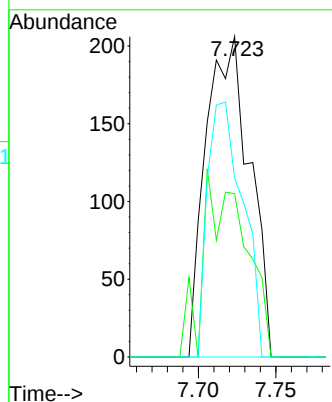
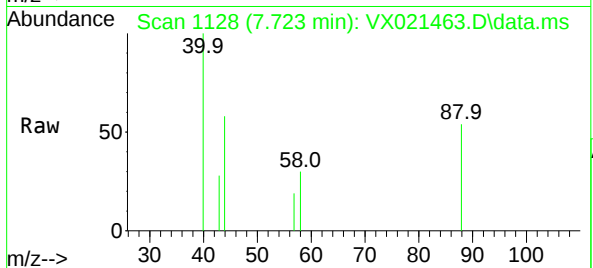




#49  
1,4-Dioxane  
Concen: 20.00 ug/l  
RT: 7.723 min Scan# 1128  
Delta R.T. 0.011 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

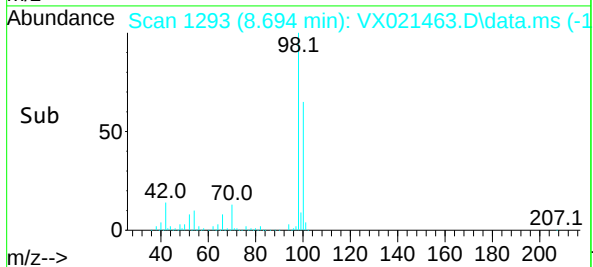
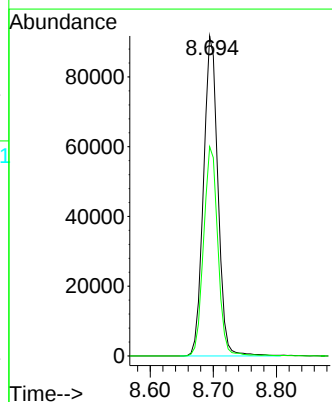
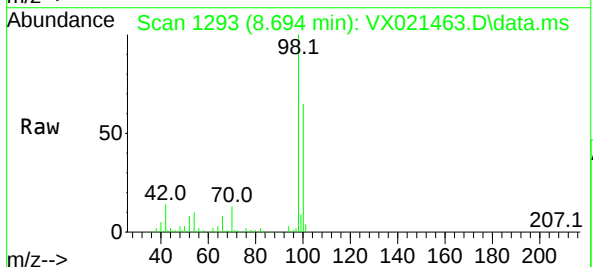
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-101D

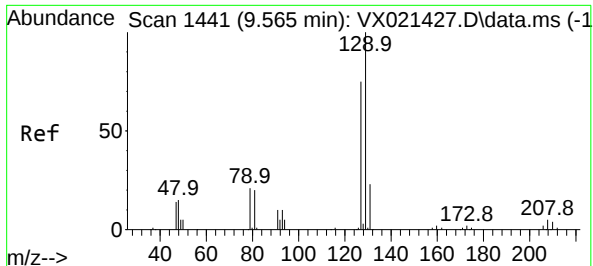
Tgt Ion: 88 Resp: 404  
Ion Ratio Lower Upper  
88 100  
43 56.2 23.2 34.8#  
58 64.1 55.0 82.4



#50  
Toluene-d8  
Concen: 50.07 ug/l  
RT: 8.694 min Scan# 1293  
Delta R.T. 0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 98 Resp: 145753  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.9 77.9

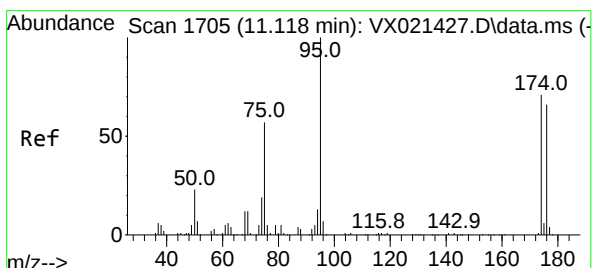
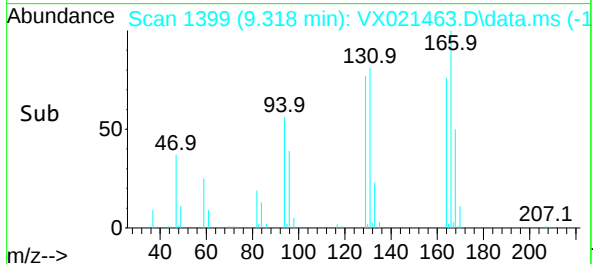
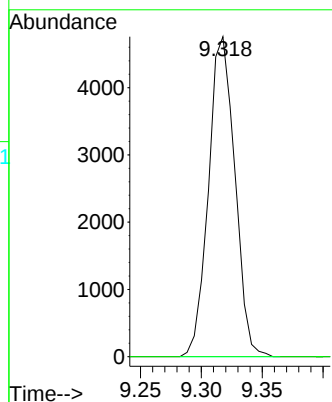
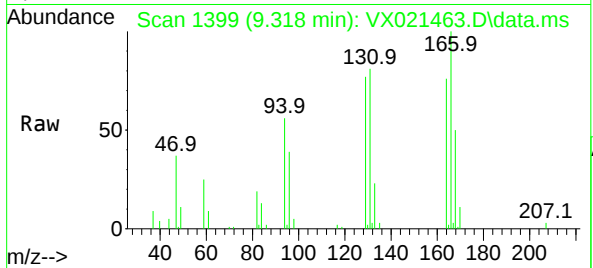




#60  
Dibromochloromethane  
Concen: 7.68 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.247 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

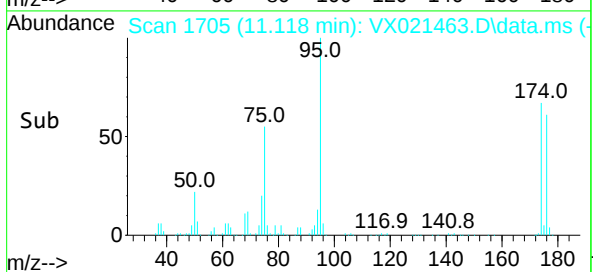
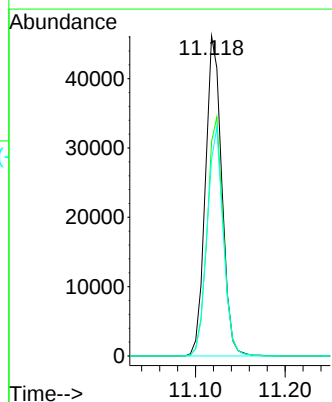
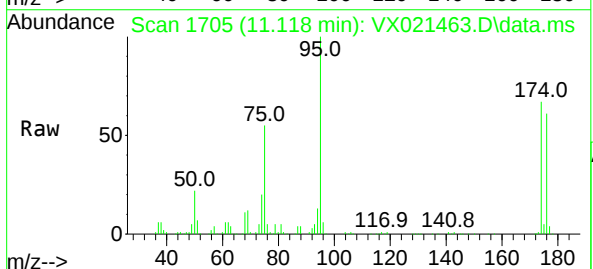
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-101D

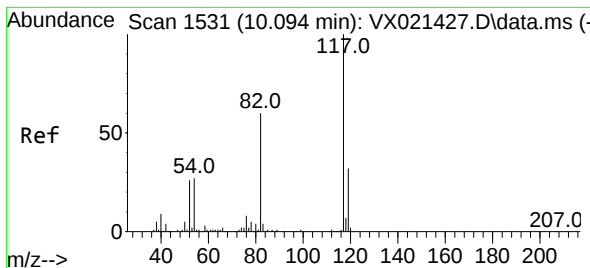
Tgt Ion:129 Resp: 7172  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#



#62  
4-Bromofluorobenzene  
Concen: 51.65 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion: 95 Resp: 58453  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 154.6  
176 70.3 0.0 155.8

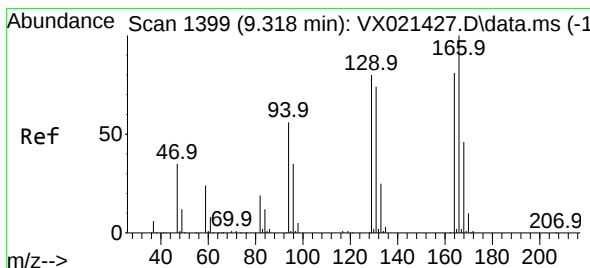
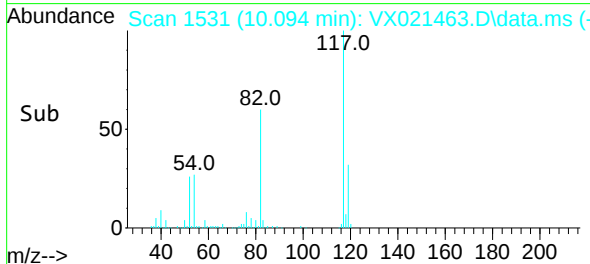
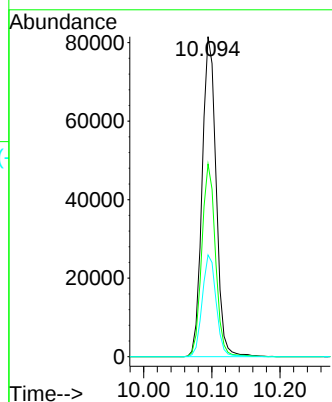
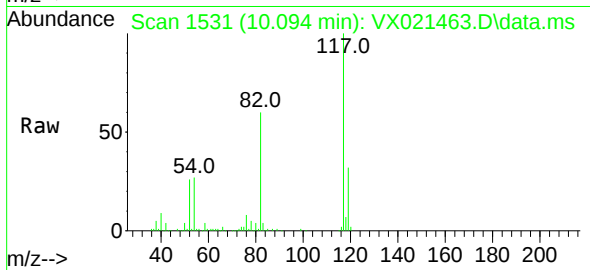




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

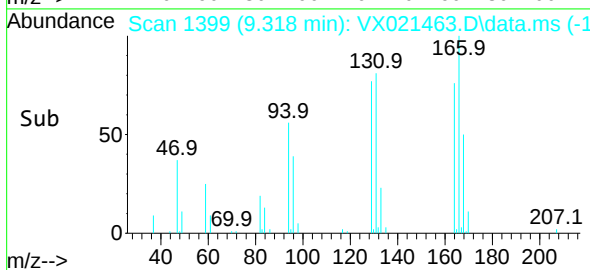
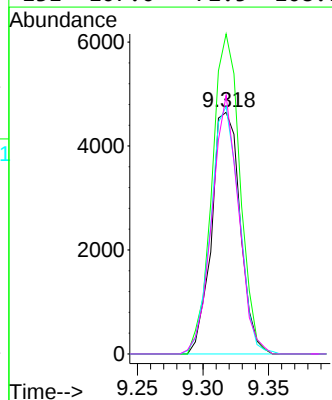
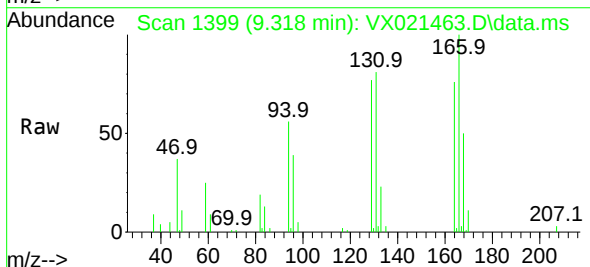
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-101D

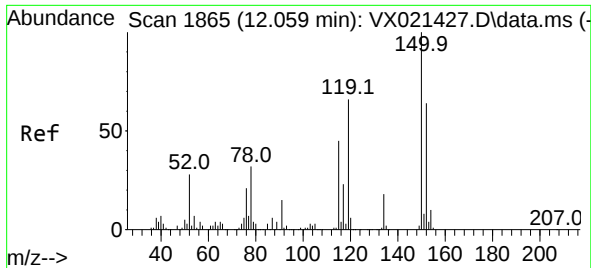
Tgt Ion:117 Resp: 116247  
Ion Ratio Lower Upper  
117 100  
82 60.2 47.4 71.2  
119 31.8 26.6 39.8



#64  
Tetrachloroethene  
Concen: 9.05 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.000 min  
Lab File: VX021463.D  
Acq: 25 Mar 2021 02:59

Tgt Ion:164 Resp: 7046  
Ion Ratio Lower Upper  
164 100  
166 132.4 103.4 155.2  
129 102.4 70.8 106.2  
131 107.0 72.5 108.7

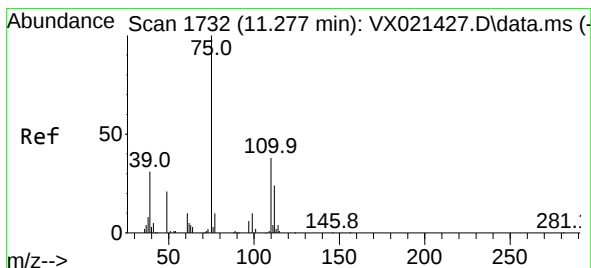
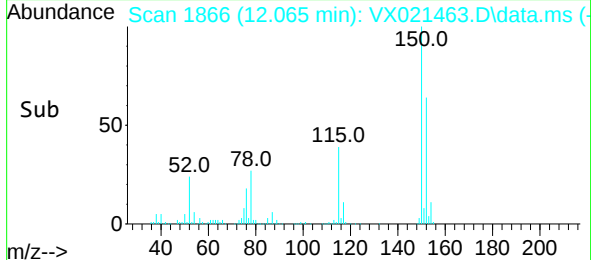
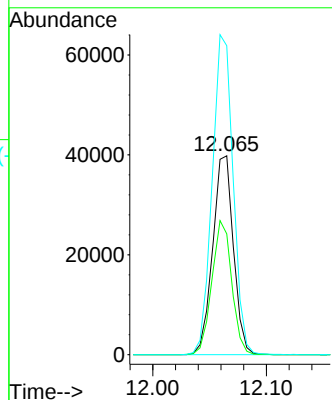
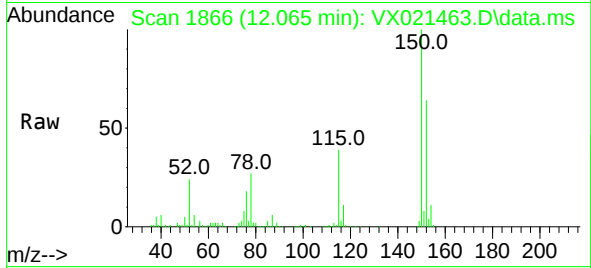




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.065 min Scan# 1866  
 Delta R.T. 0.006 min  
 Lab File: VX021463.D  
 Acq: 25 Mar 2021 02:59

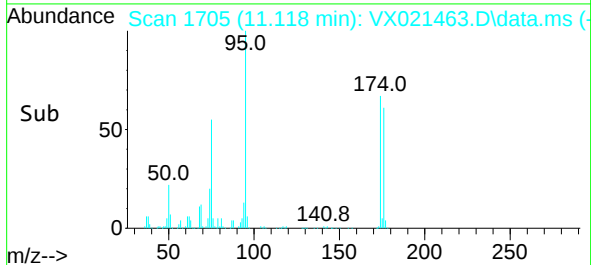
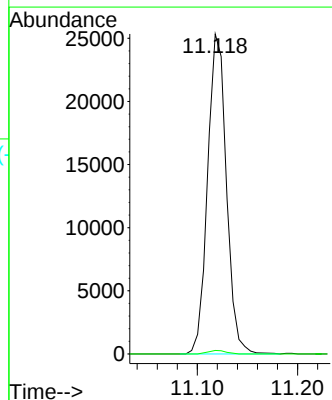
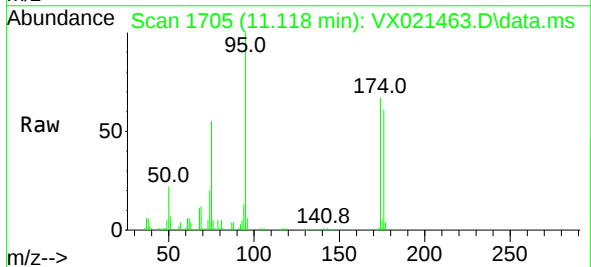
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-101D

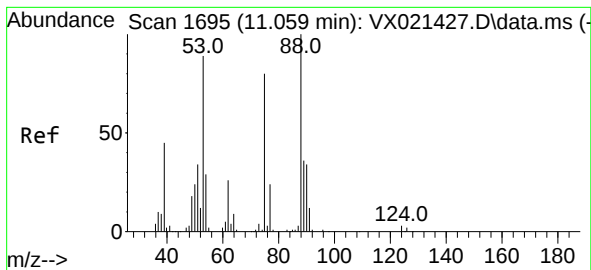
Tgt Ion:152 Resp: 50564  
 Ion Ratio Lower Upper  
 152 100  
 115 64.5 41.1 123.3  
 150 162.0 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 28.07 ug/l  
 RT: 11.118 min Scan# 1705  
 Delta R.T. -0.159 min  
 Lab File: VX021463.D  
 Acq: 25 Mar 2021 02:59

Tgt Ion: 75 Resp: 33048  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 85.52 ug/l  
 RT: 11.118 min Scan# 1705  
 Delta R.T. 0.059 min  
 Lab File: VX021463.D  
 Acq: 25 Mar 2021 02:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-101D

Tgt Ion: 75 Resp: 33048  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.5 111.7#  
 89 0.0 37.9 56.9#

