

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032921\  
 Data File : VX021599.D  
 Acq On : 30 Mar 2021 00:40  
 Operator : JC/MD  
 Sample : M1843-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW179D1-20210324

Quant Time: Mar 30 05:22:13 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

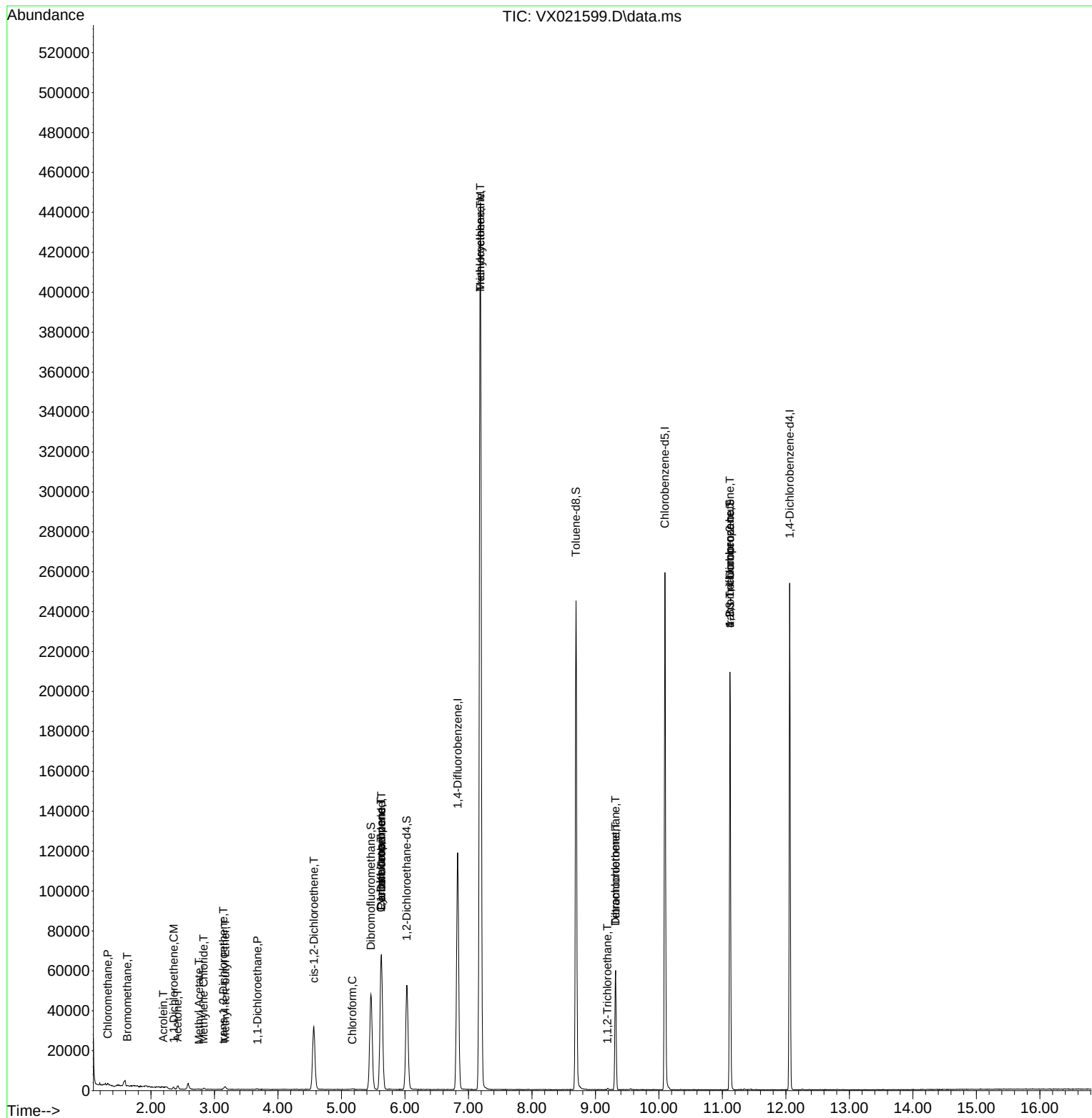
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 59440              | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.829          | 114  | 109979             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094         | 117  | 108995             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.059         | 152  | 46149              | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.029          | 65   | 52138              | 52.72  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 105.44% |        |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 39311              | 50.32  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.64% |        |        |          |
| 50) Toluene-d8                | 8.694          | 98   | 135572             | 48.70  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 97.40%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.118         | 95   | 53803              | 49.71  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 99.42%  |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        | Qvalue |          |
| 3) Chloromethane              | 1.317          | 50   | 1463               | 1.99   | ug/l   | 97       |
| 5) Bromomethane               | 1.628          | 94   | 128                | 0.48   | ug/l # | 79       |
| 12) 1,1-Dichloroethene        | 2.358          | 96   | 333                | 0.56   | ug/l # | 73       |
| 13) Acrolein                  | 2.193          | 56   | 37                 | 4.74   | ug/l   | 90       |
| 16) Acetone                   | 2.417          | 43   | 1635               | 4.37   | ug/l   | 98       |
| 18) Methyl Acetate            | 2.758          | 43   | 240                | 0.22   | ug/l # | 47       |
| 19) Methyl tert-butyl Ether   | 3.170          | 73   | 1230               | 0.55   | ug/l # | 90       |
| 20) Methylene Chloride        | 2.829          | 84   | 261                | 0.36   | ug/l # | 76       |
| 21) trans-1,2-Dichloroethene  | 3.140          | 96   | 140                | 0.21   | ug/l # | 53       |
| 24) 1,1-Dichloroethane        | 3.676          | 63   | 480                | 0.38   | ug/l # | 81       |
| 27) cis-1,2-Dichloroethene    | 4.564          | 96   | 18709              | 24.49  | ug/l   | 97       |
| 30) Chloroform                | 5.170          | 83   | 278                | 0.21   | ug/l   | 90       |
| 31) Cyclohexane               | 5.623          | 56   | 1644               | 1.51   | ug/l # | 24       |
| 36) 1,1-Dichloropropene       | 5.623          | 75   | 5362               | 4.98   | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 6502               | 5.61   | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.188          | 83   | 2218               | 1.86   | ug/l # | 1        |
| 44) Trichloroethene           | 7.188          | 130  | 153544             | 190.14 | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.188          | 97   | 252                | 0.32   | ug/l # | 53       |
| 60) Dibromochloromethane      | 9.318          | 129  | 10304              | 11.53  | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.318          | 164  | 10360              | 14.19  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.118         | 75   | 29700              | 27.64  | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.118         | 75   | 29700              | 84.20  | ug/l # | 12       |
| -----                         |                |      |                    |        |        |          |

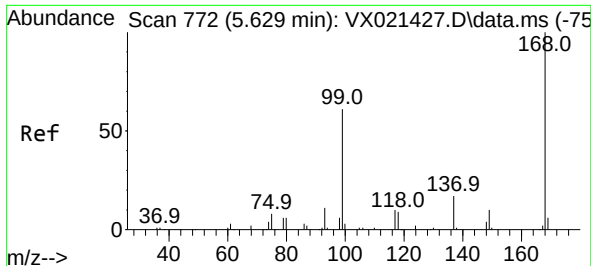
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

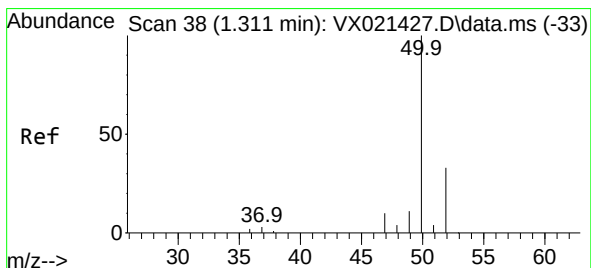
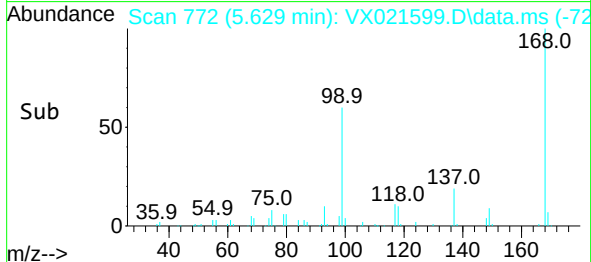
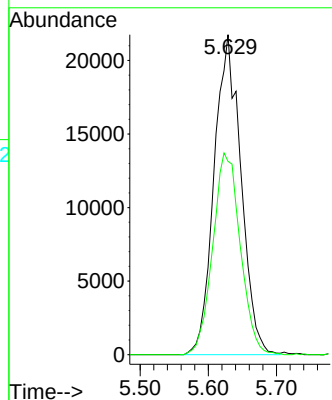
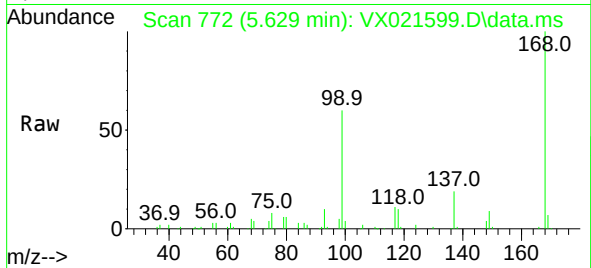




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.000 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

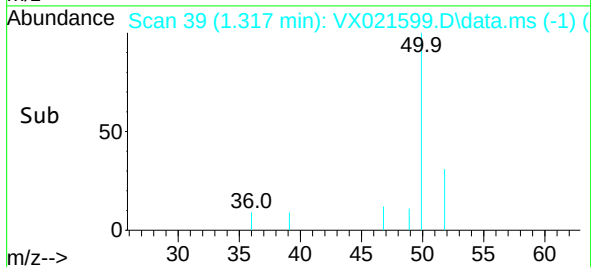
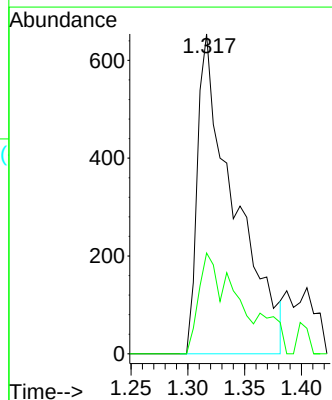
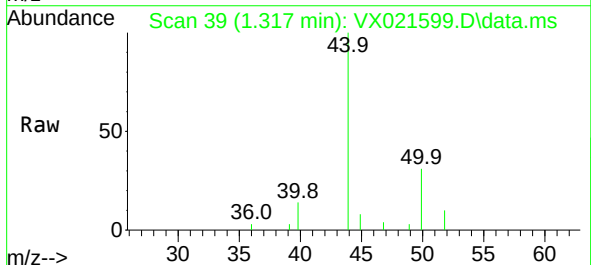
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324

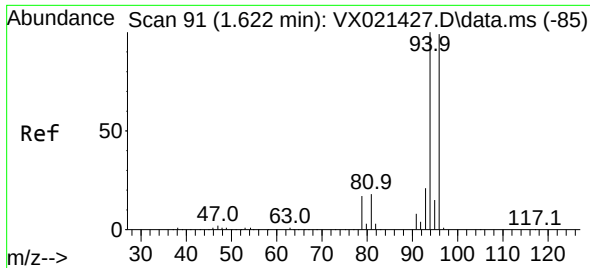
Tgt Ion:168 Resp: 59440  
Ion Ratio Lower Upper  
168 100  
99 60.4 45.8 68.6



#3  
Chloromethane  
Concen: 1.99 ug/l  
RT: 1.317 min Scan# 39  
Delta R.T. 0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

Tgt Ion: 50 Resp: 1463  
Ion Ratio Lower Upper  
50 100  
52 31.5 26.4 39.6

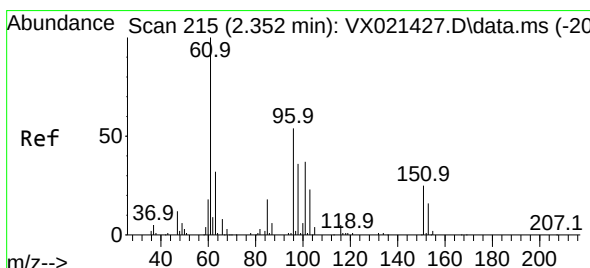
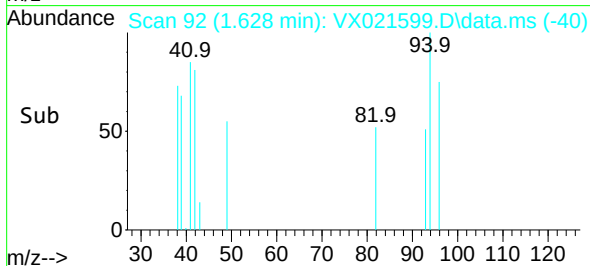
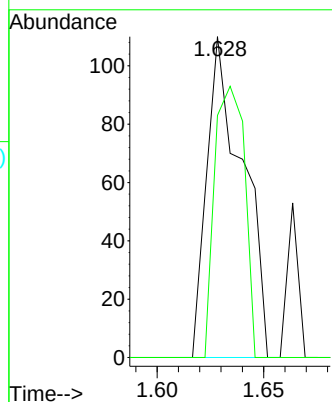
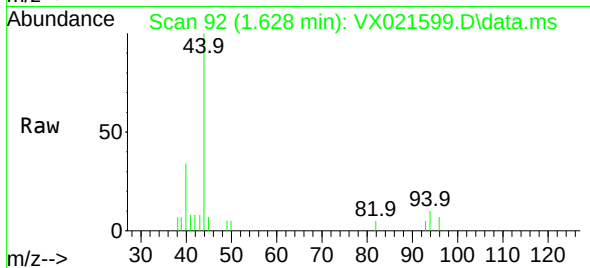




#5  
Bromomethane  
Concen: 0.48 ug/l  
RT: 1.628 min Scan# 92  
Delta R.T. 0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

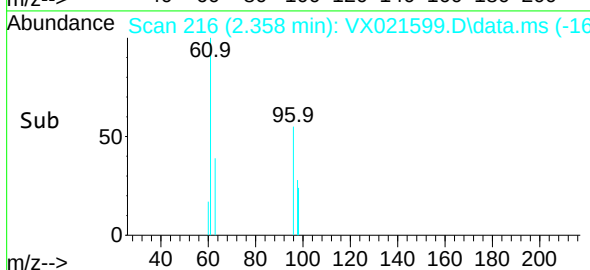
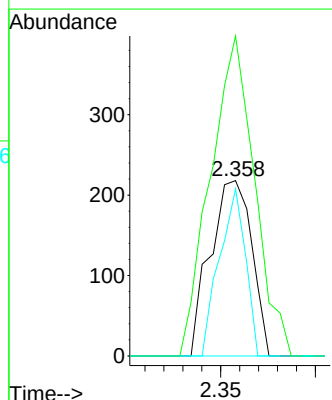
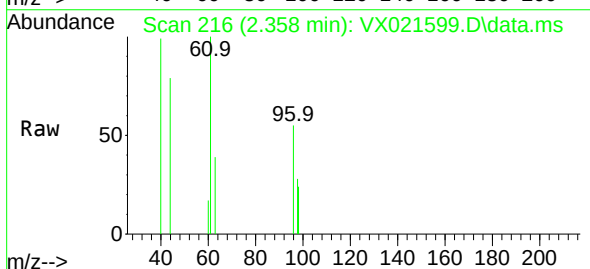
Instrument :  
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ClientSampleId :  
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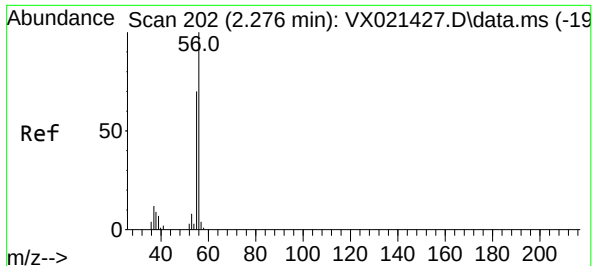
Tgt Ion: 94 Resp: 128  
Ion Ratio Lower Upper  
94 100  
96 75.5 76.4 114.6#



#12  
1,1-Dichloroethene  
Concen: 0.56 ug/l  
RT: 2.358 min Scan# 216  
Delta R.T. 0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

Tgt Ion: 96 Resp: 333  
Ion Ratio Lower Upper  
96 100  
61 182.6 124.6 187.0  
98 95.4 50.6 76.0#

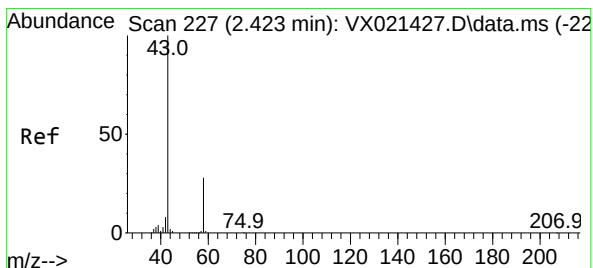
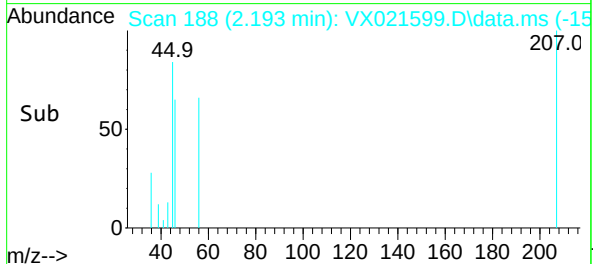
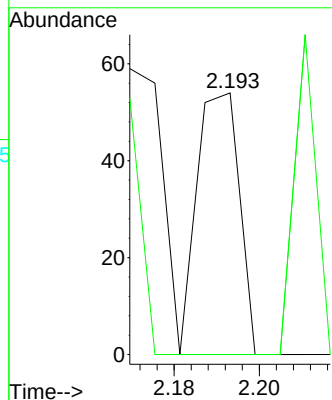
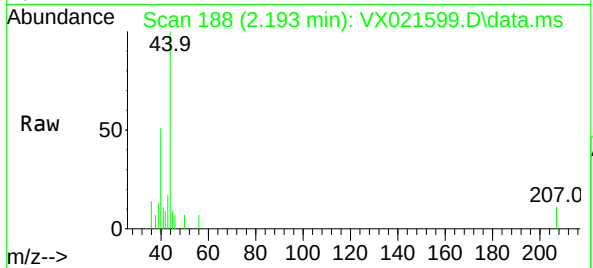




#13  
Acrolein  
Concen: 4.74 ug/l  
RT: 2.193 min Scan# 188  
Delta R.T. -0.083 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

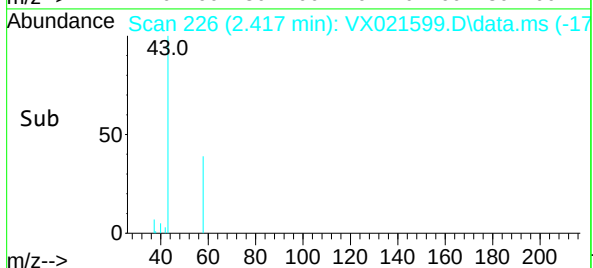
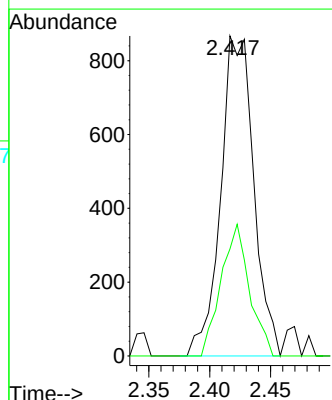
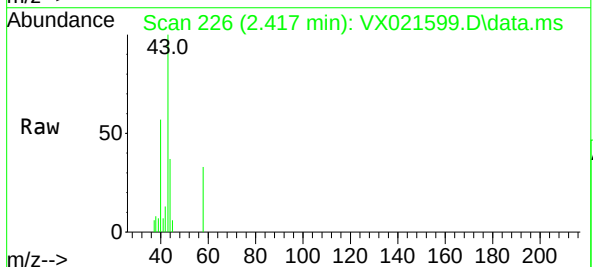
Instrument :  
MSVOA\_X  
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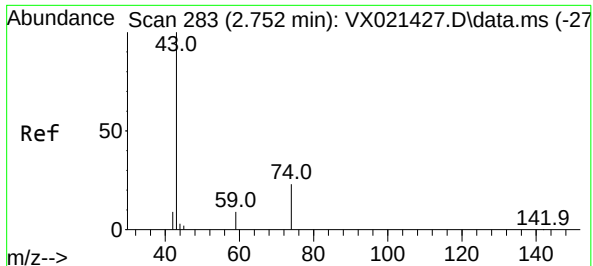
Tgt Ion: 56 Resp: 37  
Ion Ratio Lower Upper  
56 100  
55 62.2 56.4 84.6



#16  
Acetone  
Concen: 4.37 ug/l  
RT: 2.417 min Scan# 226  
Delta R.T. -0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

Tgt Ion: 43 Resp: 1635  
Ion Ratio Lower Upper  
43 100  
58 33.4 27.8 41.8





#18

Methyl Acetate

Concen: 0.22 ug/l

RT: 2.758 min Scan# 284

Delta R.T. 0.006 min

Lab File: VX021599.D

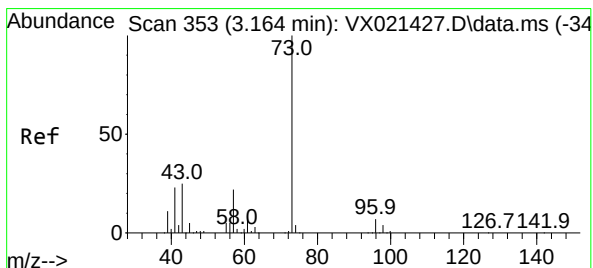
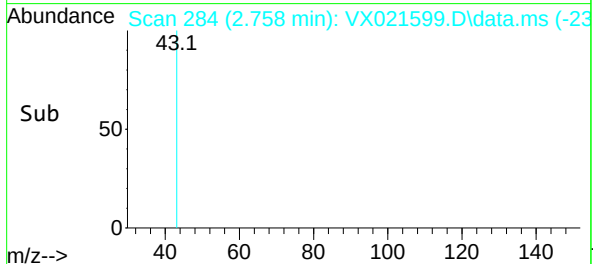
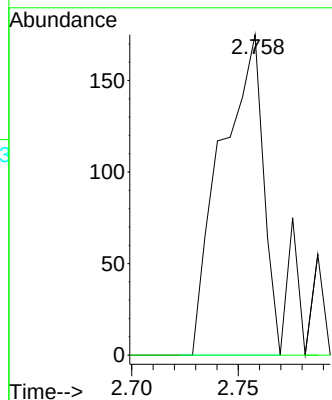
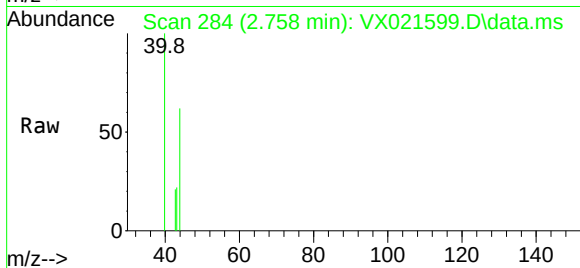
Acq: 30 Mar 2021 00:40

Tgt Ion: 43 Resp: 240

Ion Ratio Lower Upper

43 100

74 0.0 21.9 32.9#



#19

Methyl tert-butyl Ether

Concen: 0.55 ug/l

RT: 3.170 min Scan# 354

Delta R.T. 0.006 min

Lab File: VX021599.D

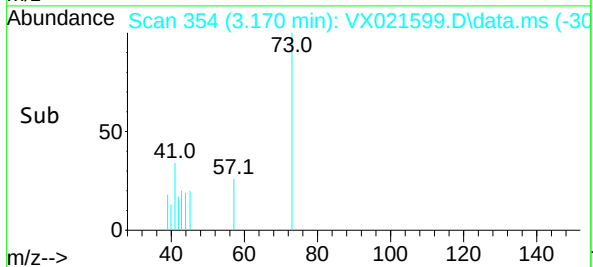
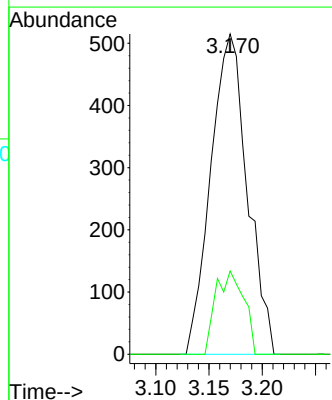
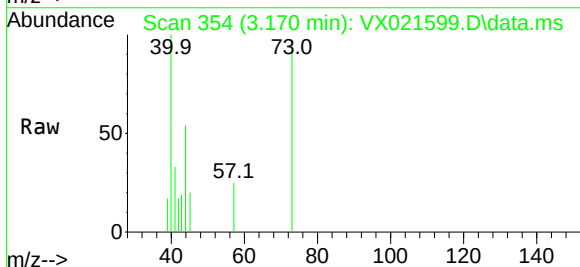
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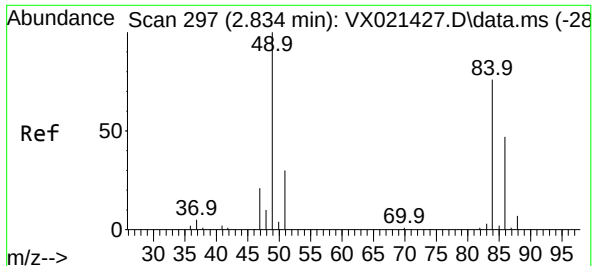
Tgt Ion: 73 Resp: 1230

Ion Ratio Lower Upper

73 100

57 26.0 17.1 25.7#





#20

Methylene Chloride

Concen: 0.36 ug/l

RT: 2.829 min Scan# 296

Delta R.T. -0.006 min

Lab File: VX021599.D

Acq: 30 Mar 2021 00:40

Tgt Ion: 84 Resp: 261

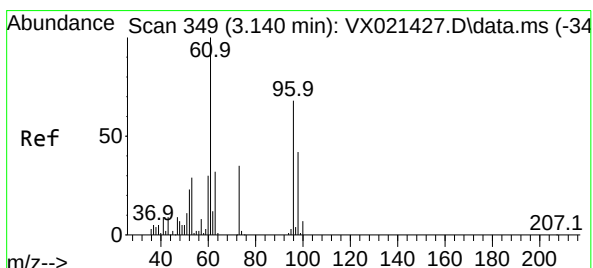
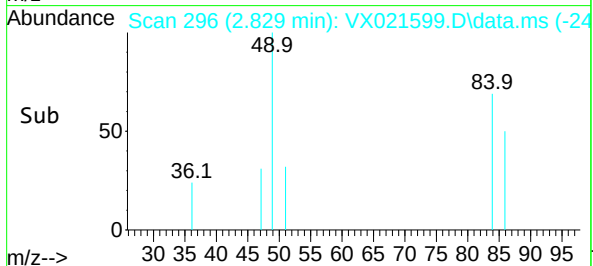
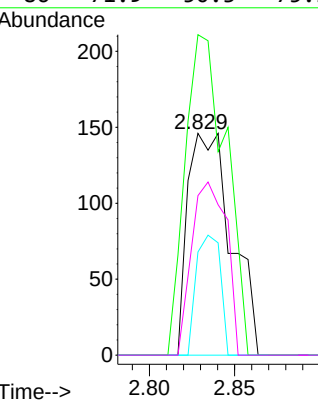
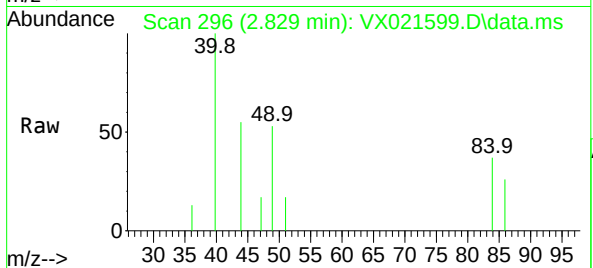
Ion Ratio Lower Upper

84 100

49 144.5 88.6 132.8#

51 46.6 27.0 40.6#

86 71.9 50.3 75.5



#21

trans-1,2-Dichloroethene

Concen: 0.21 ug/l

RT: 3.140 min Scan# 349

Delta R.T. 0.000 min

Lab File: VX021599.D

Acq: 30 Mar 2021 00:40

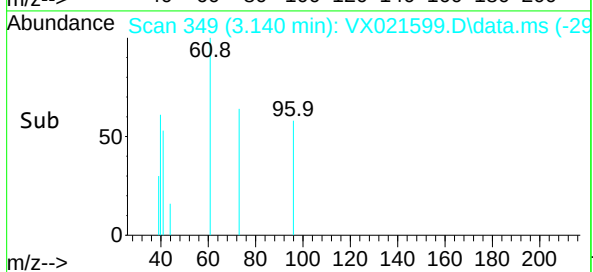
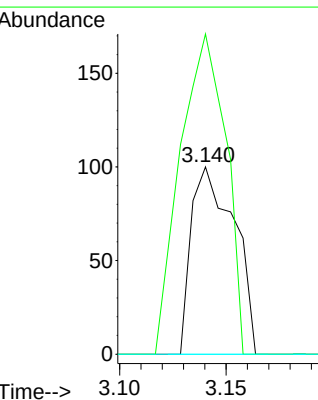
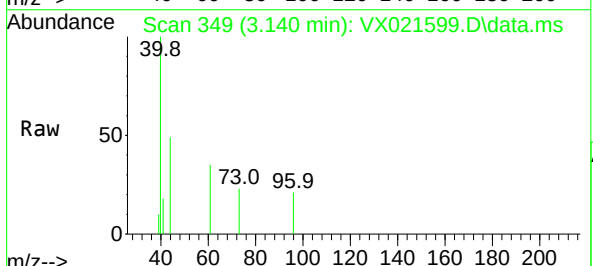
Tgt Ion: 96 Resp: 140

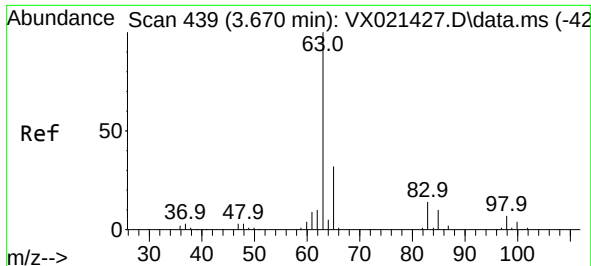
Ion Ratio Lower Upper

96 100

61 171.0 107.7 161.5#

98 0.0 50.4 75.6#

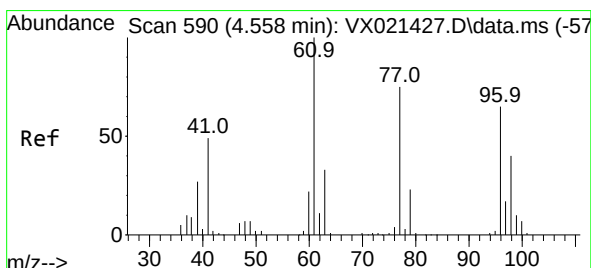
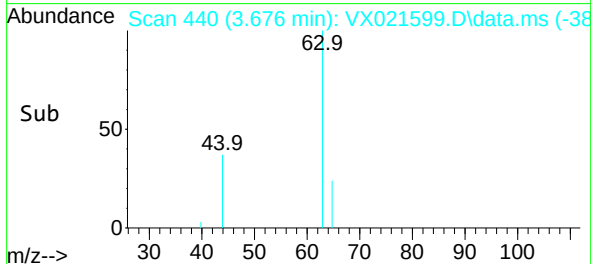
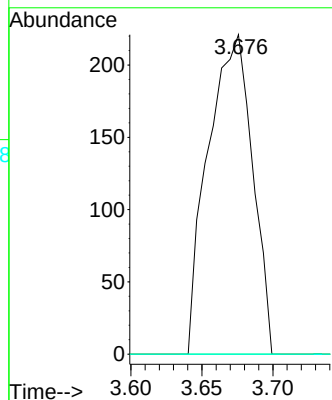
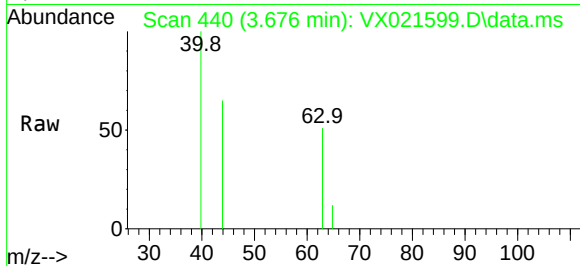




#24  
1,1-Dichloroethane  
Concen: 0.38 ug/l  
RT: 3.676 min Scan# 440  
Delta R.T. 0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

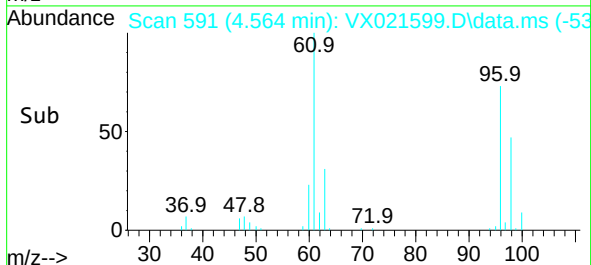
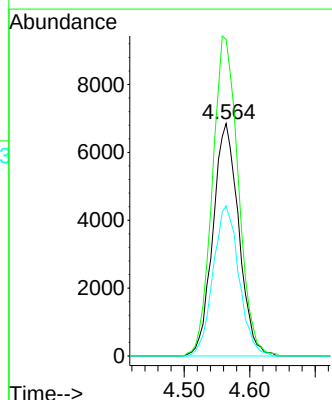
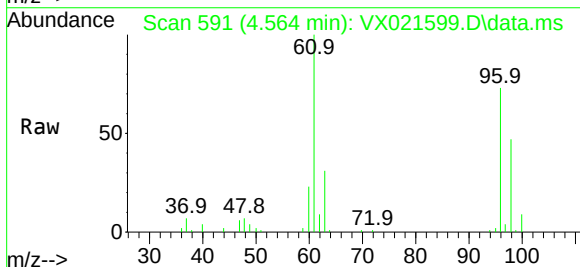
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324

Tgt Ion: 63 Resp: 480  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.8 11.2#  
100 0.0 2.5 7.5#

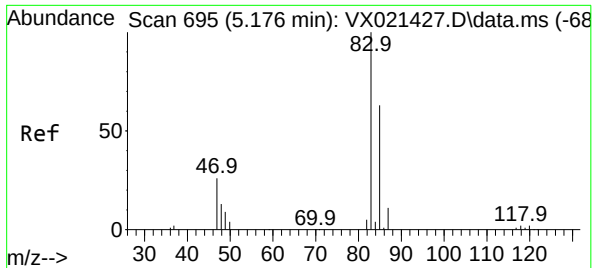


#27  
cis-1,2-Dichloroethene  
Concen: 24.49 ug/l  
RT: 4.564 min Scan# 591  
Delta R.T. 0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

Tgt Ion: 96 Resp: 18709  
Ion Ratio Lower Upper  
96 100  
61 138.1 0.0 285.6  
98 64.7 0.0 129.6



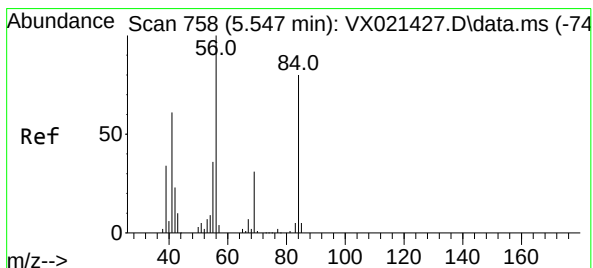
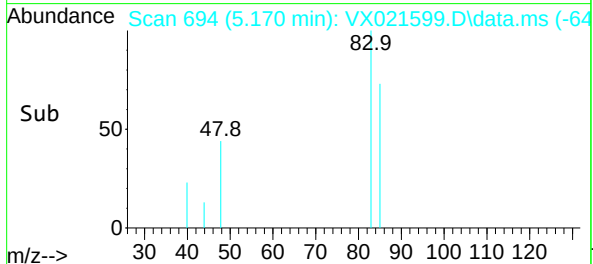
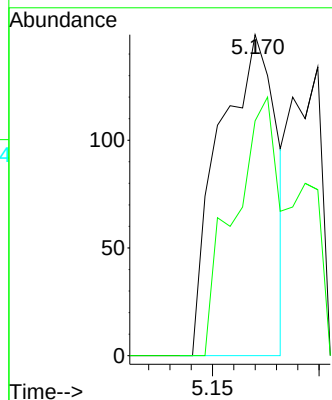
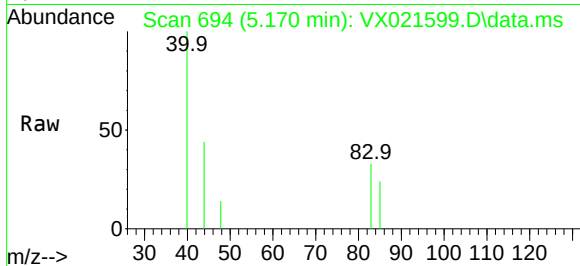




#30  
Chloroform  
Concen: 0.21 ug/l  
RT: 5.170 min Scan# 694  
Delta R.T. -0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

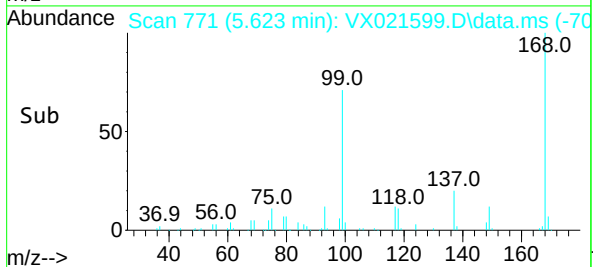
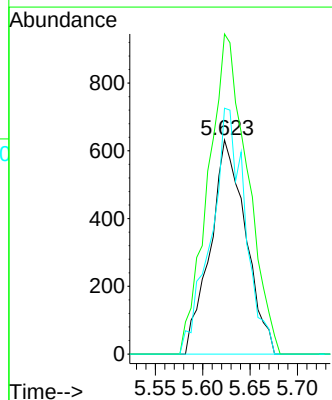
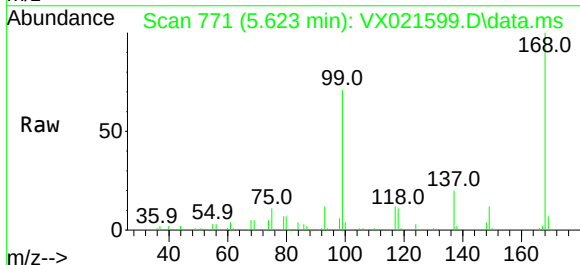
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324

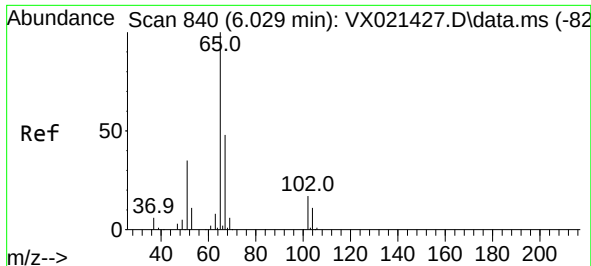
Tgt Ion: 83 Resp: 278  
Ion Ratio Lower Upper  
83 100  
85 73.2 52.0 78.0



#31  
Cyclohexane  
Concen: 1.51 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. 0.076 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

Tgt Ion: 56 Resp: 1644  
Ion Ratio Lower Upper  
56 100  
69 149.5 25.3 37.9#  
84 114.9 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 52.72 ug/l

RT: 6.029 min Scan# 840

Delta R.T. -0.000 min

Lab File: VX021599.D

Acq: 30 Mar 2021 00:40

Tgt Ion: 65 Resp: 52138

Ion Ratio Lower Upper

65 100

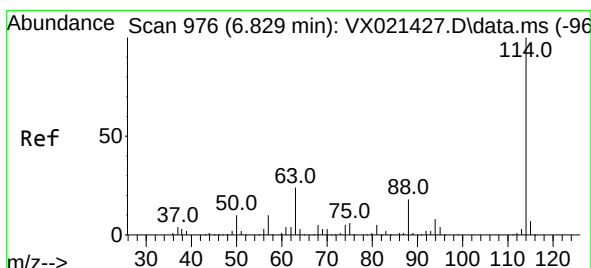
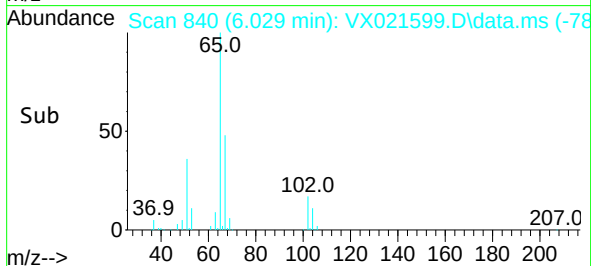
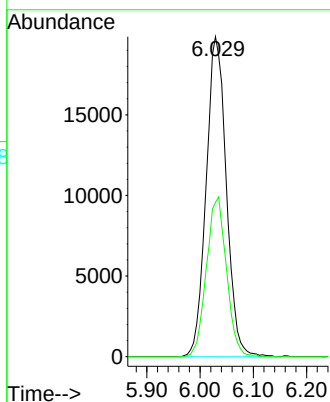
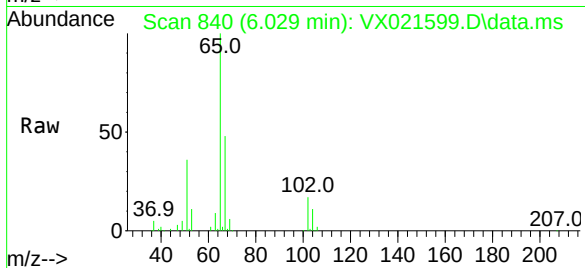
67 49.7 0.0 105.4

Instrument :

MSVOA\_X

ClientSampleId :

MW179D1-20210324



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.829 min Scan# 976

Delta R.T. 0.000 min

Lab File: VX021599.D

Acq: 30 Mar 2021 00:40

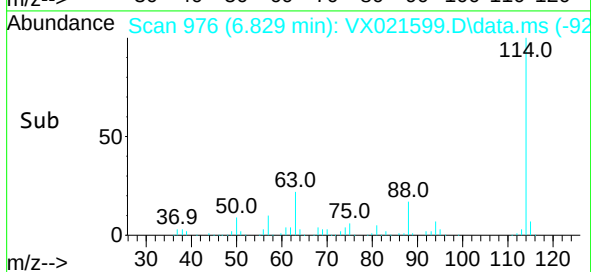
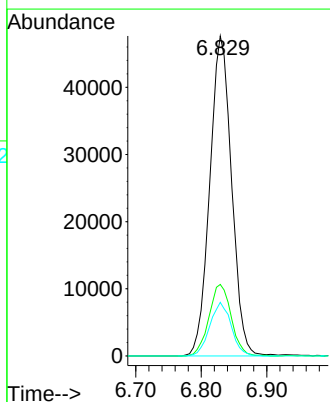
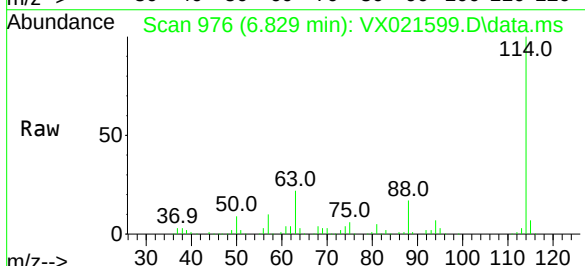
Tgt Ion: 114 Resp: 109979

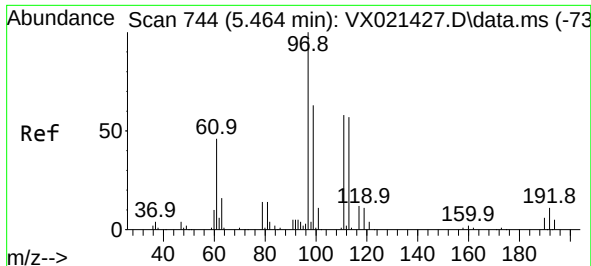
Ion Ratio Lower Upper

114 100

63 22.4 0.0 40.8

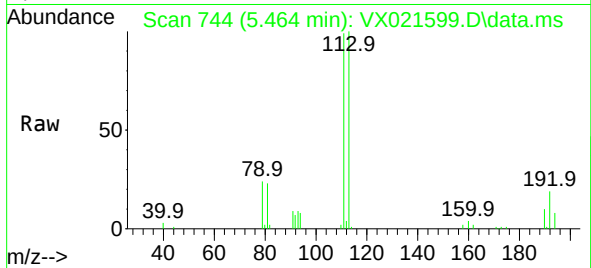
88 16.8 0.0 32.8



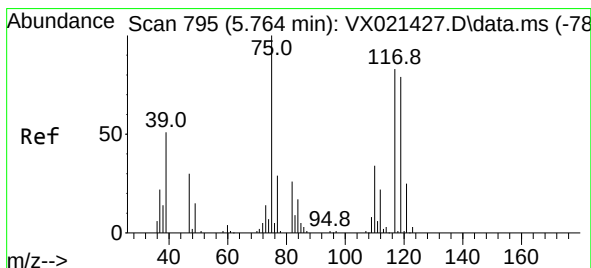
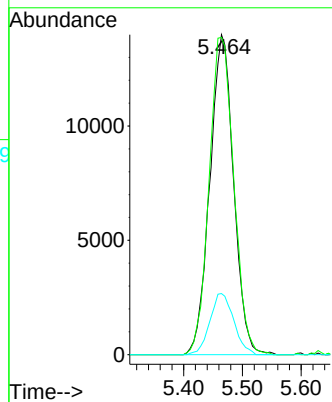
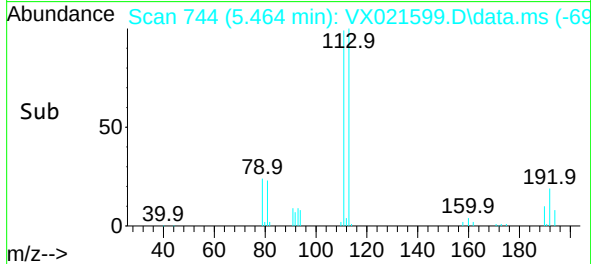


#35  
Dibromofluoromethane  
Concen: 50.32 ug/l  
RT: 5.464 min Scan# 744  
Delta R.T. 0.000 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

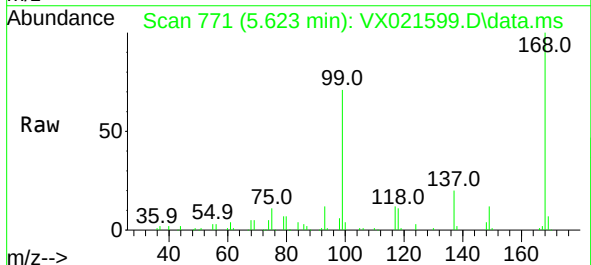
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324



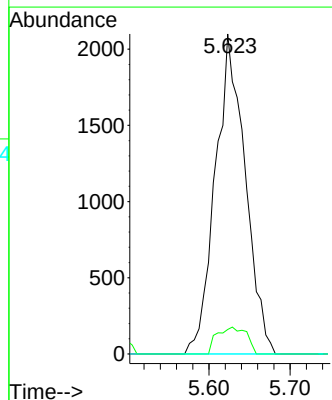
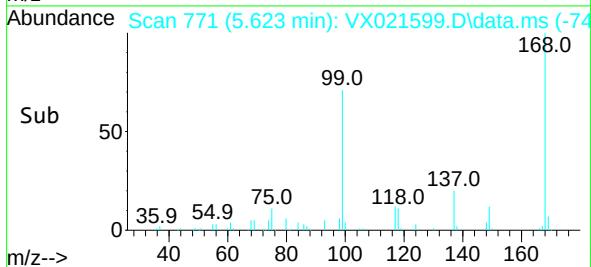
Tgt Ion:113 Resp: 39311  
Ion Ratio Lower Upper  
113 100  
111 102.9 81.9 122.9  
192 19.2 16.7 25.1

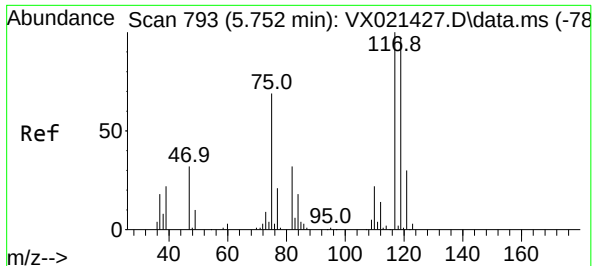


#36  
1,1-Dichloropropene  
Concen: 4.98 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. -0.141 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40



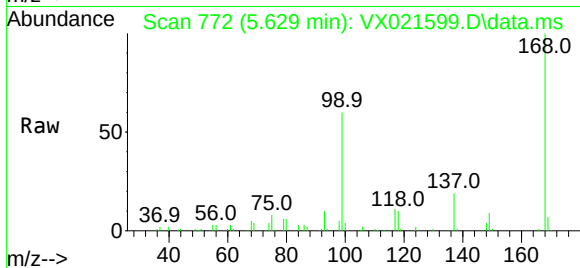
Tgt Ion: 75 Resp: 5362  
Ion Ratio Lower Upper  
75 100  
110 8.3 18.1 54.4#  
77 0.0 25.3 37.9#



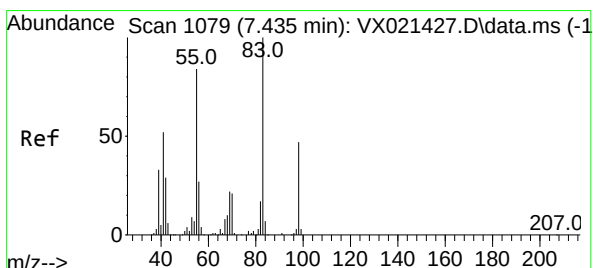
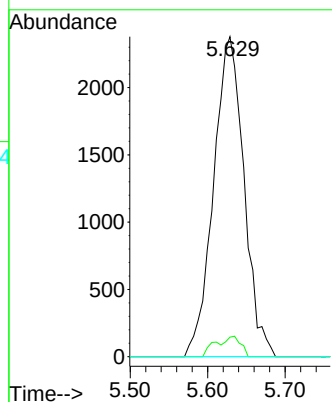
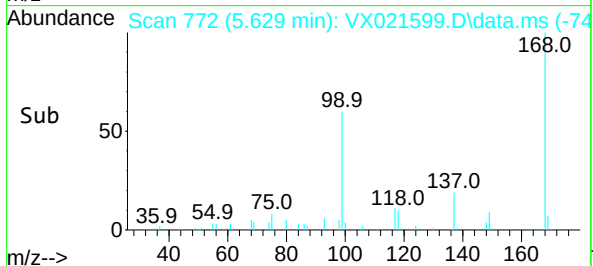


#38  
Carbon Tetrachloride  
Concen: 5.61 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.123 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

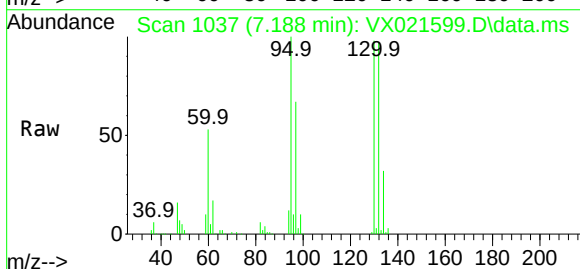
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324



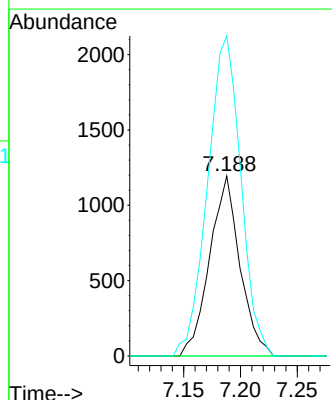
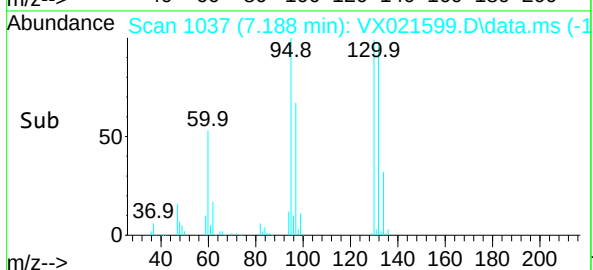
Tgt Ion:117 Resp: 6502  
Ion Ratio Lower Upper  
117 100  
119 6.1 76.2 114.2#  
121 0.0 24.8 37.2#

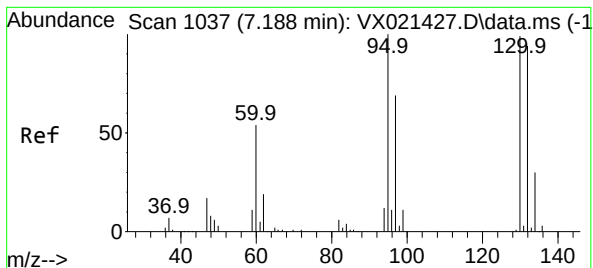


#39  
Methylcyclohexane  
Concen: 1.86 ug/l  
RT: 7.188 min Scan# 1037  
Delta R.T. -0.247 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40



Tgt Ion: 83 Resp: 2218  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 177.7 38.1 57.1#





#44

Trichloroethene

Concen: 190.14 ug/l

RT: 7.188 min Scan# 1037

Delta R.T. -0.000 min

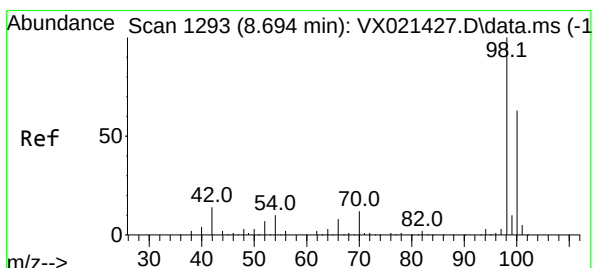
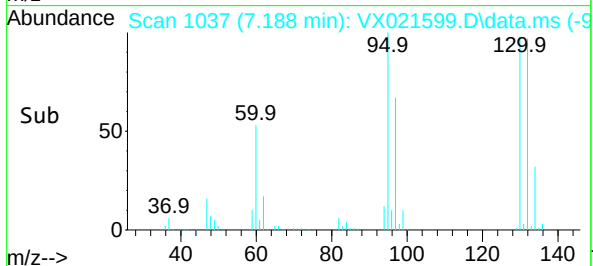
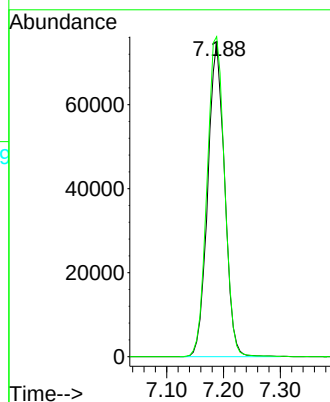
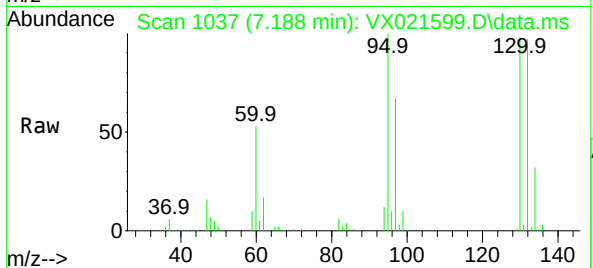
Lab File: VX021599.D

Acq: 30 Mar 2021 00:40

Tgt Ion:130 Resp: 153544

Ion Ratio Lower Upper

|     |       |     |       |
|-----|-------|-----|-------|
| 130 | 100   |     |       |
| 95  | 101.5 | 0.0 | 198.0 |



#50

Toluene-d8

Concen: 48.70 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. -0.000 min

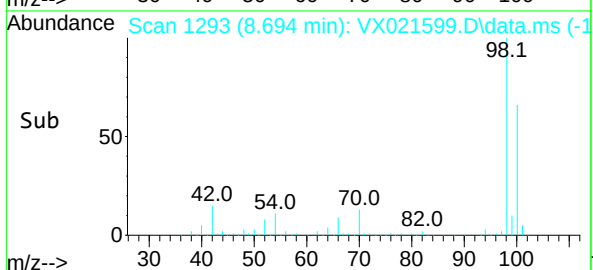
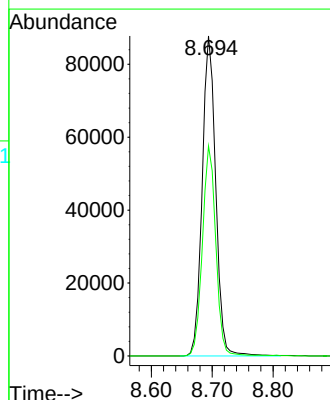
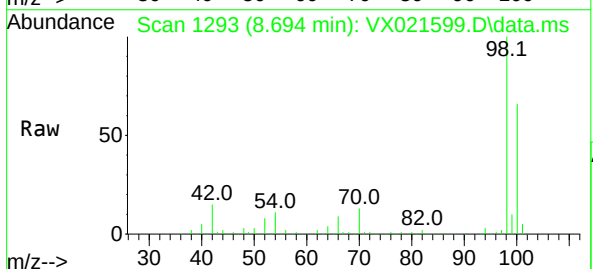
Lab File: VX021599.D

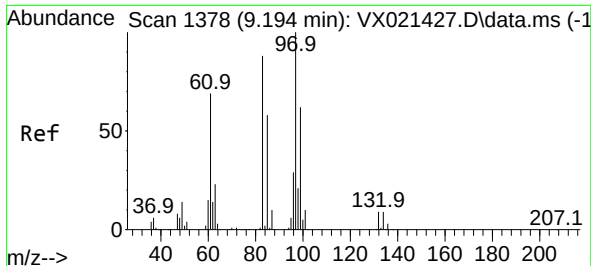
Acq: 30 Mar 2021 00:40

Tgt Ion: 98 Resp: 135572

Ion Ratio Lower Upper

|     |      |      |      |
|-----|------|------|------|
| 98  | 100  |      |      |
| 100 | 65.2 | 51.9 | 77.9 |

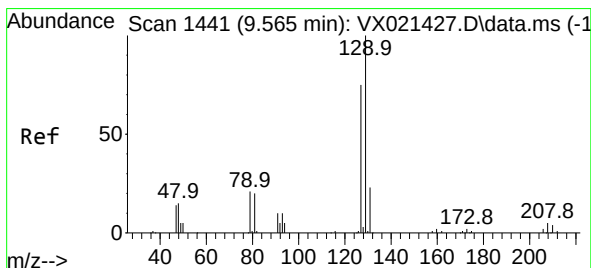
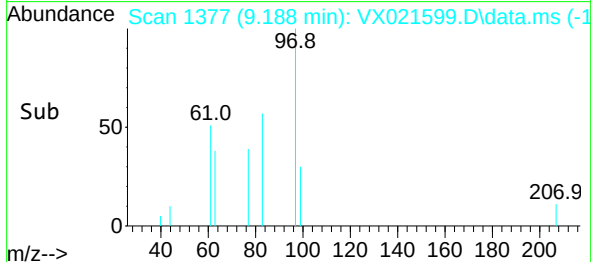
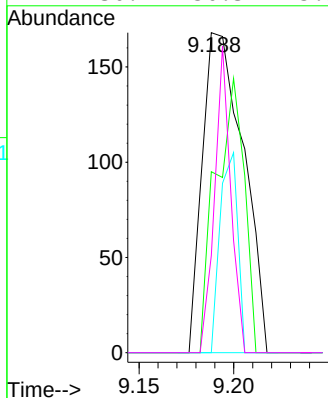
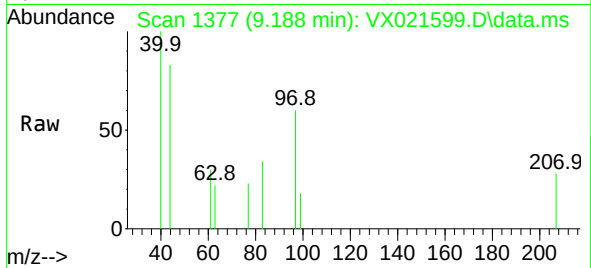




#55  
1,1,2-Trichloroethane  
Concen: 0.32 ug/l  
RT: 9.188 min Scan# 1377  
Delta R.T. -0.006 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

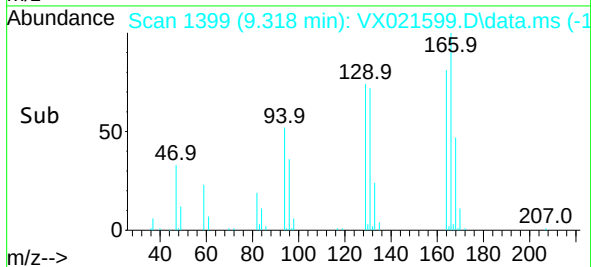
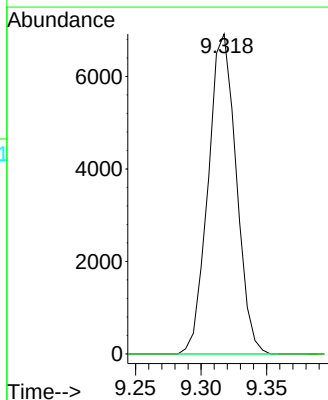
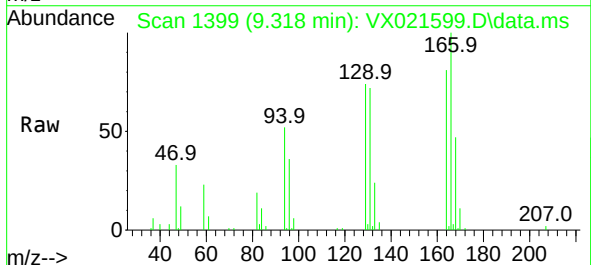
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324

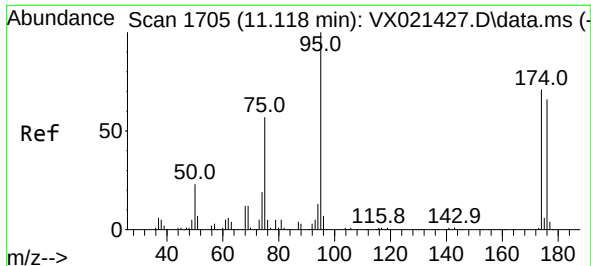
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 252   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 56.5     | 69.3 103.9# |
| 85 0.0      | 44.3 66.5#  |
| 99 30.4     | 50.3 75.5#  |



#60  
Dibromochloromethane  
Concen: 11.53 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.247 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

|              |             |
|--------------|-------------|
| Tgt Ion: 129 | Resp: 10304 |
| Ion Ratio    | Lower Upper |
| 129 100      |             |
| 127 0.0      | 38.4 115.2# |

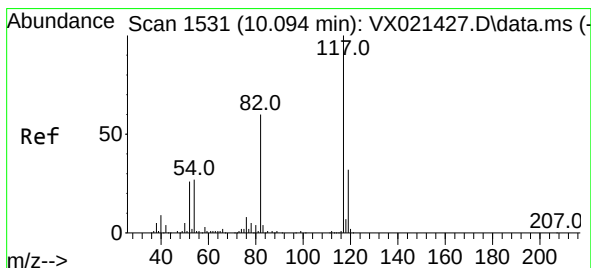
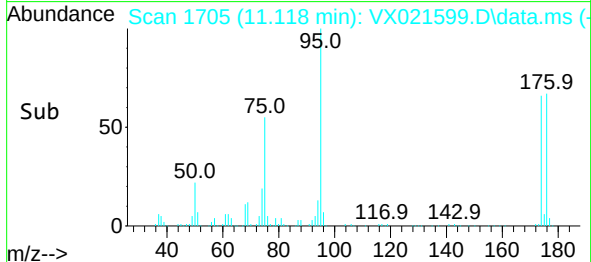
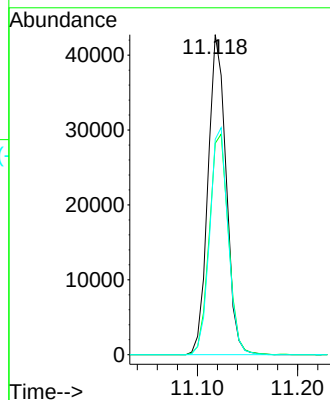
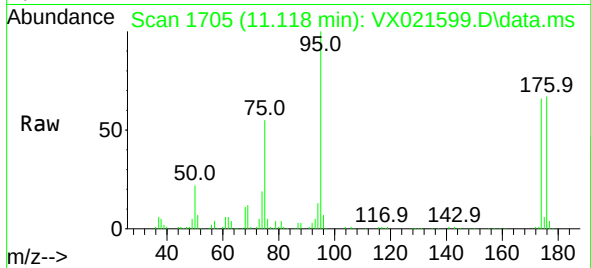




#62  
4-Bromofluorobenzene  
Concen: 49.71 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

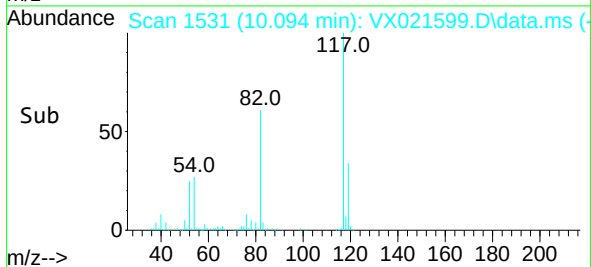
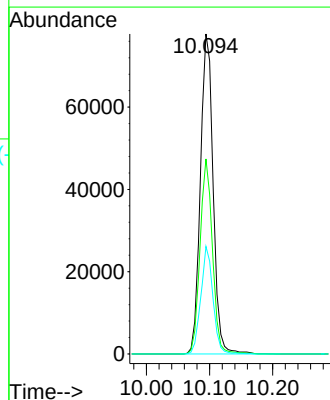
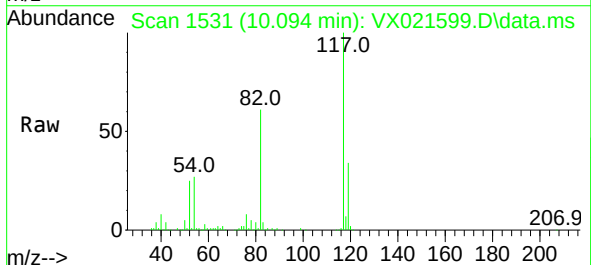
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324

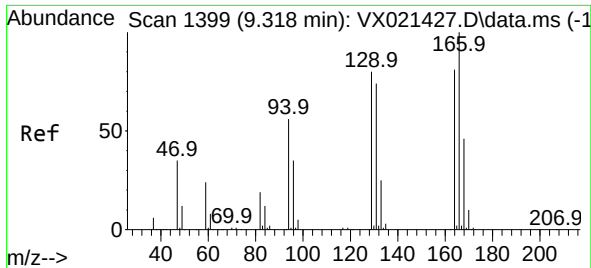
Tgt Ion: 95 Resp: 53803  
Ion Ratio Lower Upper  
95 100  
174 72.6 0.0 154.6  
176 71.8 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

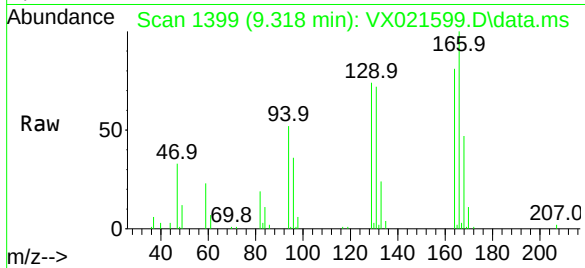
Tgt Ion: 117 Resp: 108995  
Ion Ratio Lower Upper  
117 100  
82 61.0 47.4 71.2  
119 33.6 26.6 39.8



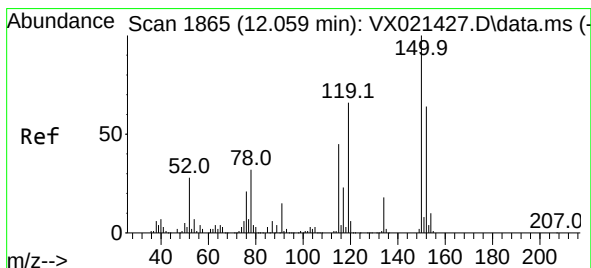
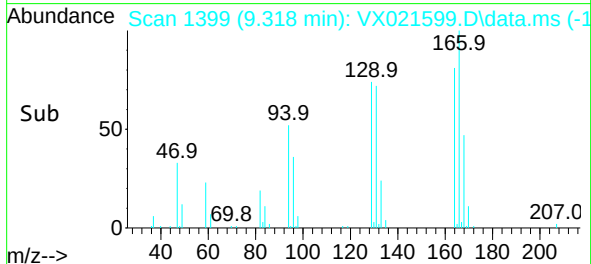
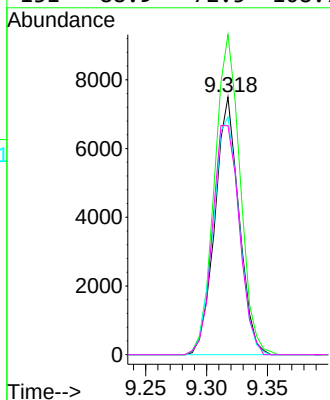


#64  
Tetrachloroethene  
Concen: 14.19 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.000 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

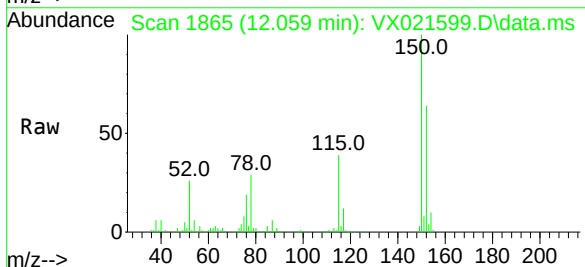
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324



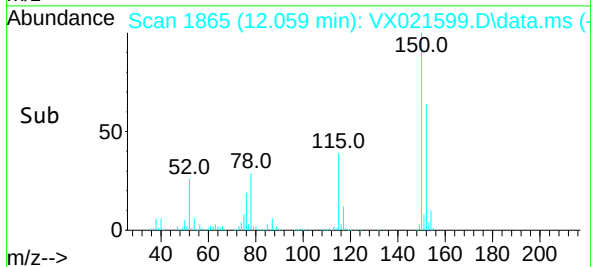
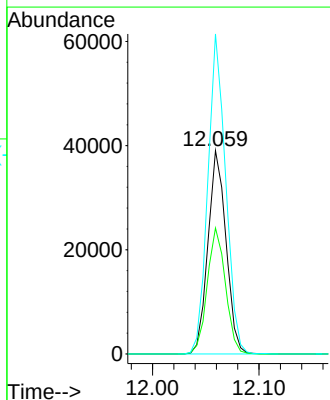
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 10360 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 124.2 | 103.4 | 155.2 |
| 129      | 92.3  | 70.8  | 106.2 |
| 131      | 88.9  | 72.5  | 108.7 |



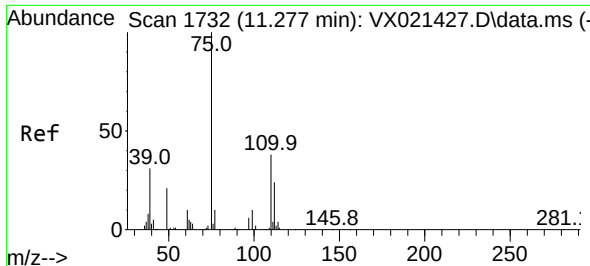
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.059 min Scan# 1865  
Delta R.T. 0.000 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 46149 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 62.4  | 41.1  | 123.3 |
| 150      | 155.0 | 0.0   | 349.0 |



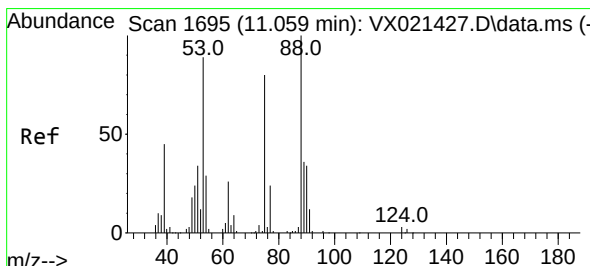
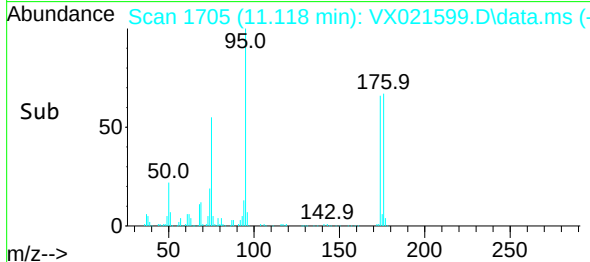
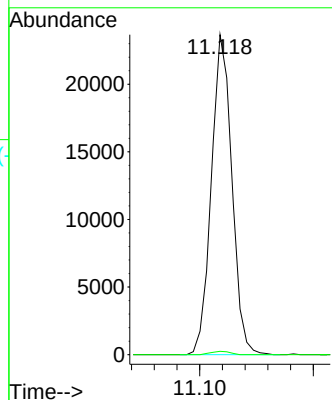
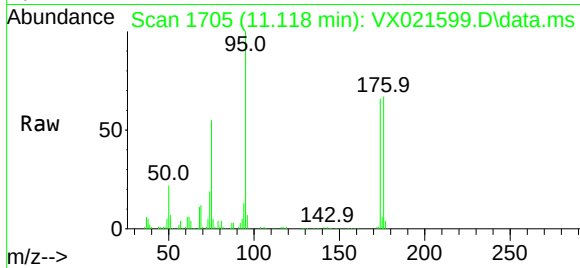




#76  
1,2,3-Trichloropropane  
Concen: 27.64 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.159 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324

Tgt Ion: 75 Resp: 29700  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 84.20 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021599.D  
Acq: 30 Mar 2021 00:40

Tgt Ion: 75 Resp: 29700  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

