

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060721\  
 Data File : VX022546.D  
 Acq On : 07 Jun 2021 20:01  
 Operator : JC/MD  
 Sample : PB136857ZHE#18  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

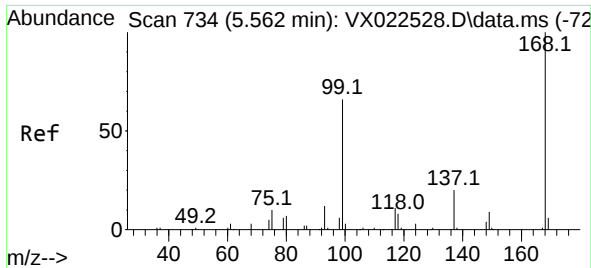
Quant Time: Jun 08 04:23:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X060721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 07 14:27:50 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| -----                         |                |      |            |         |       |          |
| Internal Standards            |                |      |            |         |       |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 63491      | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 134100     | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 123145     | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 48332      | 50.000  | ug/l  | 0.00     |
|                               |                |      |            |         |       |          |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.970          | 65   | 54120      | 47.949  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 95.900% |       |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 38895      | 46.358  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.720% |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 166085     | 49.611  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 99.220% |       |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 59115      | 47.507  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 95.020% |       |          |
|                               |                |      |            |         |       |          |
| Target Compounds              |                |      |            |         |       | Qvalue   |
| 5) Bromomethane               | 1.611          | 94   | 223        | 0.486   | ug/l  | # 62     |
| 10) Methyl Iodide             | 2.471          | 142  | 192        | 0.209   | ug/l  | # 43     |
| 11) Tert butyl alcohol        | 2.959          | 59   | 1951       | 7.706   | ug/l  | # 73     |
| 16) Acetone                   | 2.386          | 43   | 9083       | 17.909  | ug/l  | 90       |
| 17) Carbon Disulfide          | 2.507          | 76   | 296        | 3.521   | ug/l  | # 75     |
| 18) Methyl Acetate            | 2.721          | 43   | 705        | 0.504   | ug/l  | # 47     |
| 20) Methylene Chloride        | 2.794          | 84   | 4677       | 4.417   | ug/l  | 93       |
| 25) 2-Butanone                | 4.574          | 43   | 1845       | 2.201   | ug/l  | 93       |
| 29) Tetrahydrofuran           | 5.037          | 42   | 548        | 1.114   | ug/l  | # 55     |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 6427       | 4.954   | ug/l  | # 47     |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 7551       | 8.090   | ug/l  | # 17     |
| 41) Methacrylonitrile         | 5.031          | 41   | 305        | 0.333   | ug/l  | # 33     |
| 43) Isopropyl Acetate         | 6.348          | 43   | 11937      | 4.422   | ug/l  | # 92     |
| 48) Methyl methacrylate       | 7.604          | 41   | 3563       | 2.837   | ug/l  | # 10     |
| 49) 1,4-Dioxane               | 7.805          | 88   | 20         | 0.787   | ug/l  | # 1      |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 43701      | 25.989  | ug/l  | # 45     |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 19802      | 13.198  | ug/l  | # 63     |
| 56) Ethyl methacrylate        | 9.006          | 69   | 57         | 2.731   | ug/l  | # 29     |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 11432      | 6.455   | ug/l  | # 42     |
| 59) 2-Hexanone                | 9.378          | 43   | 5086       | 3.959   | ug/l  | # 19     |
| 60) Dibromochloromethane      | 9.275          | 129  | 47         | 3.617   | ug/l  | # 11     |
| 74) N-amyl acetate            | 10.646         | 43   | 7951       | 3.762   | ug/l  | # 47     |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 31663      | 25.288  | ug/l  | # 39     |
| 80) 1,3,5-Trimethylbenzene    | 11.457         | 105  | 2342       | 0.696   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 31663      | 62.512  | ug/l  | # 12     |
| -----                         |                |      |            |         |       |          |

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

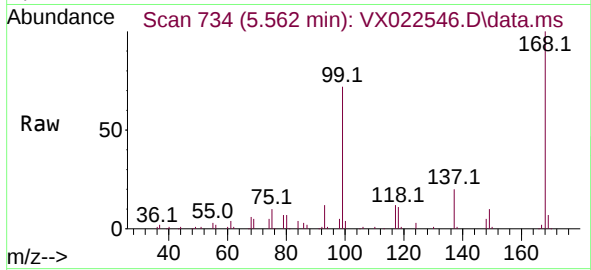
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**

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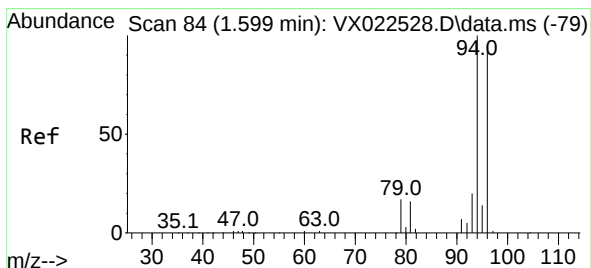
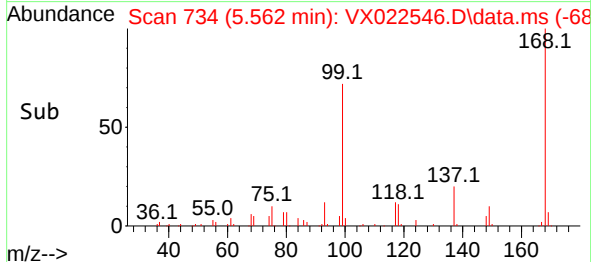
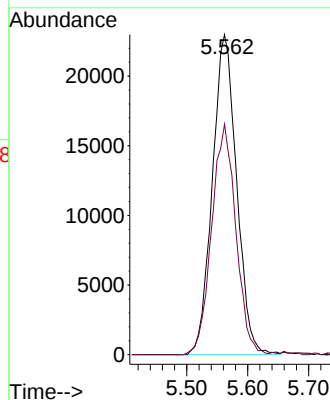


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Instrument :  
MSVOA\_X  
ClientSampled :

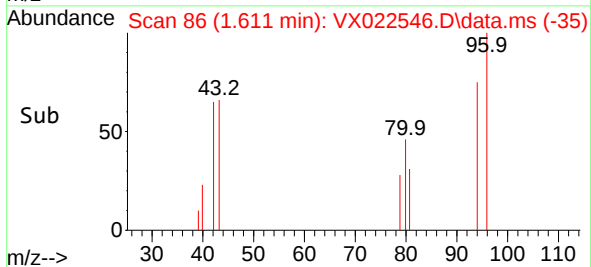
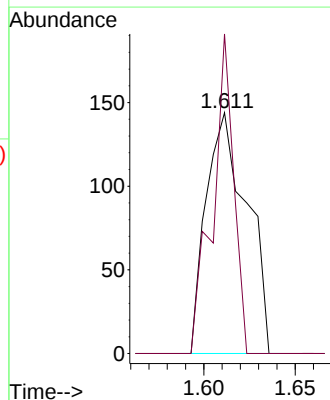
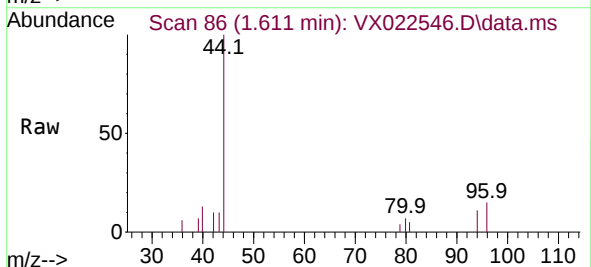


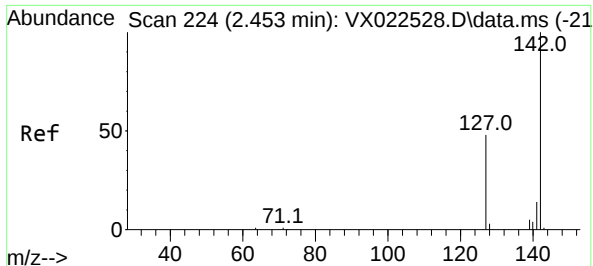
Tgt Ion:168 Resp: 63491  
Ion Ratio Lower Upper  
168 100  
99 72.0 45.8 68.6#



#5  
Bromomethane  
Concen: 0.486 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

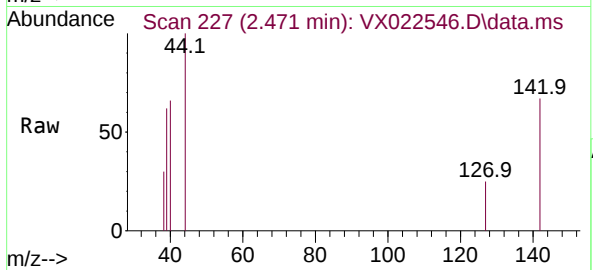
Tgt Ion: 94 Resp: 223  
Ion Ratio Lower Upper  
94 100  
96 132.6 76.4 114.6#



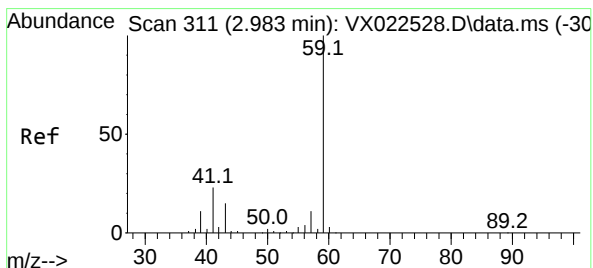
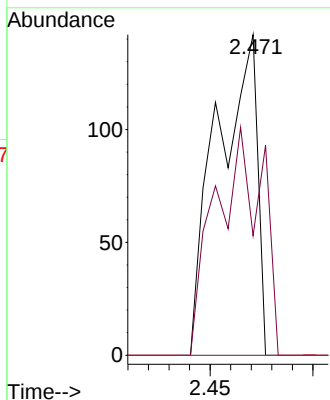
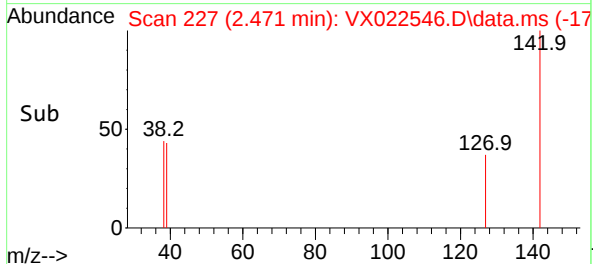


#10  
Methyl Iodide  
Concen: 0.209 ug/l  
RT: 2.471 min Scan# 227  
Delta R.T. 0.018 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

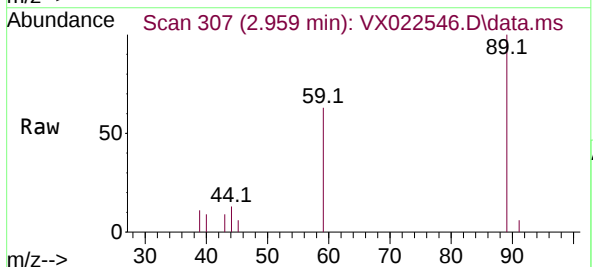
Instrument :  
MSVOA\_X  
ClientSampled :



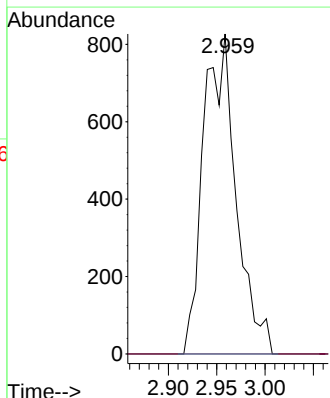
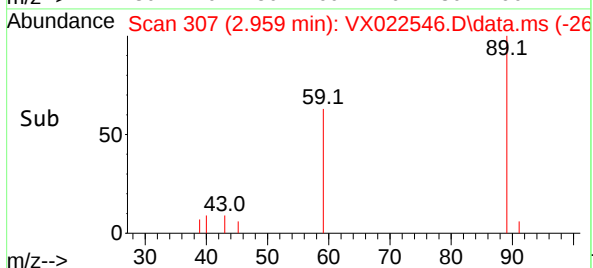
Tgt Ion:142 Resp: 192  
Ion Ratio Lower Upper  
142 100  
127 82.3 33.3 49.9#  
141 0.0 11.4 17.0#

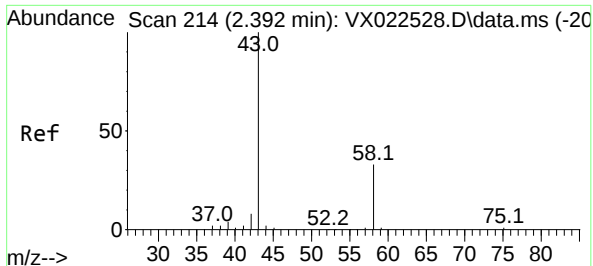


#11  
Tert butyl alcohol  
Concen: 7.706 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.024 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01



Tgt Ion: 59 Resp: 1951  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

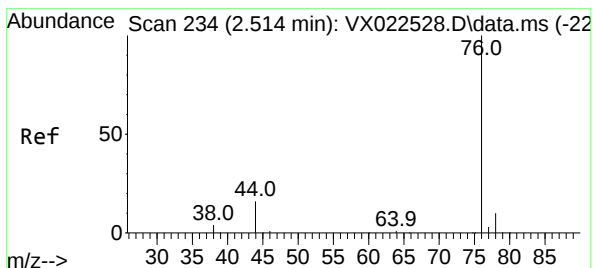
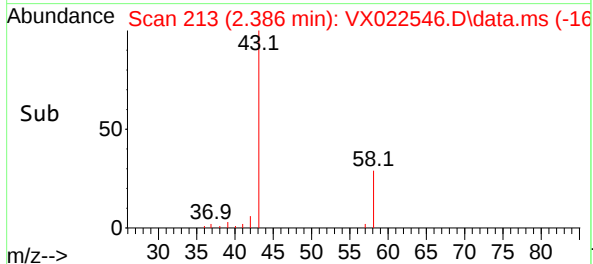
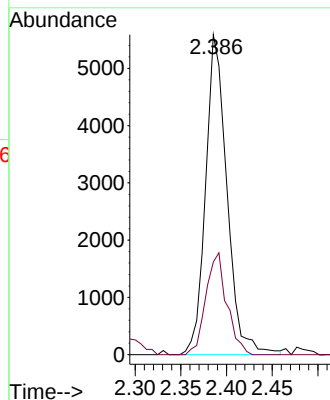
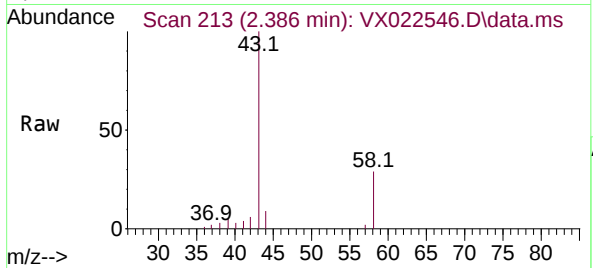




#16  
Acetone  
Concen: 17.909 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

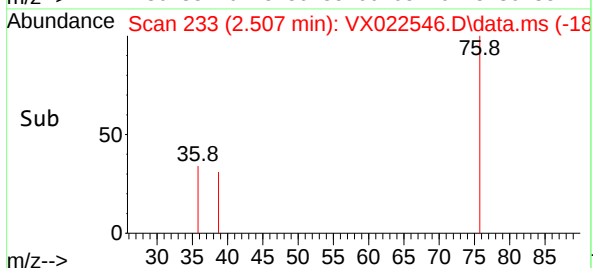
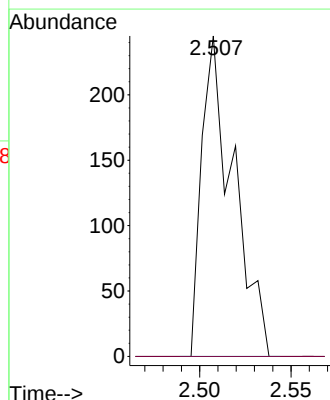
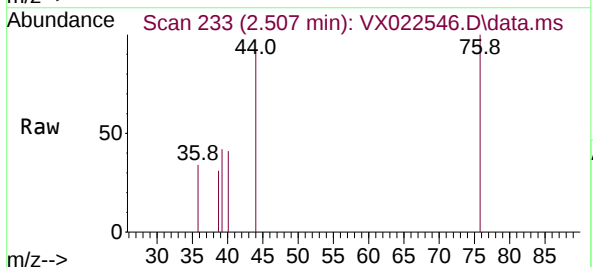
Instrument :  
MSVOA\_X  
ClientSampled :

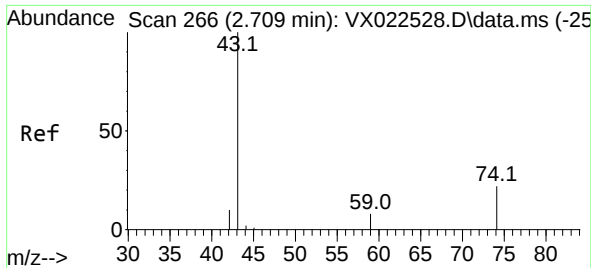
Tgt Ion: 43 Resp: 9083  
Ion Ratio Lower Upper  
43 100  
58 28.9 27.8 41.8



#17  
Carbon Disulfide  
Concen: 3.521 ug/l  
RT: 2.507 min Scan# 233  
Delta R.T. -0.007 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 76 Resp: 296  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

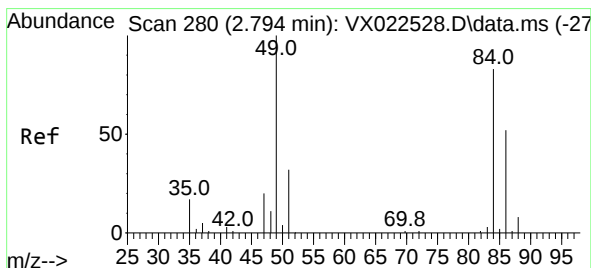
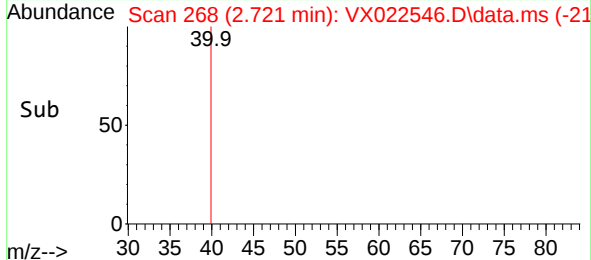
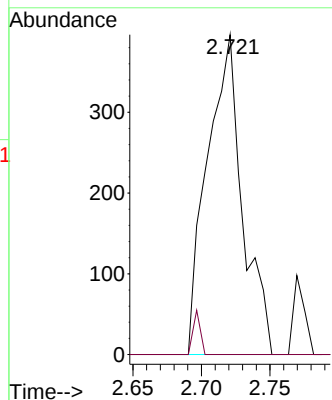
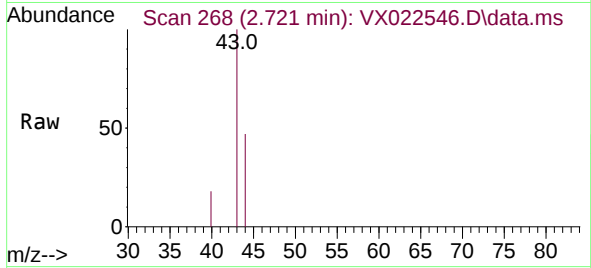




#18  
Methyl Acetate  
Concen: 0.504 ug/l  
RT: 2.721 min Scan# 268  
Delta R.T. 0.012 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

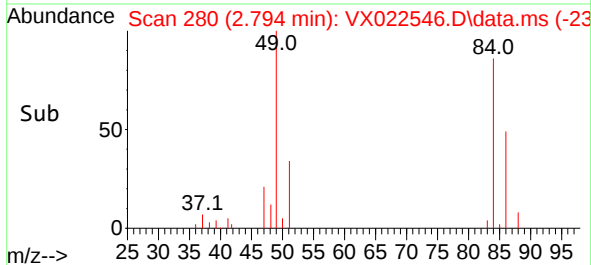
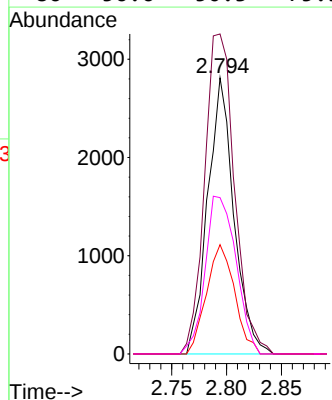
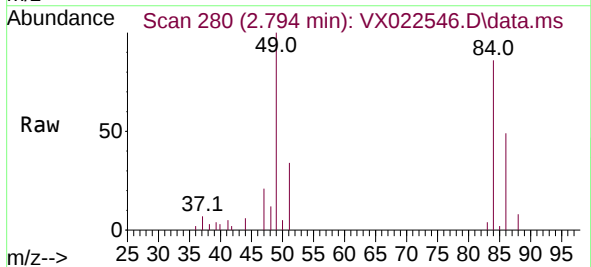
Instrument :  
MSVOA\_X  
ClientSampled :

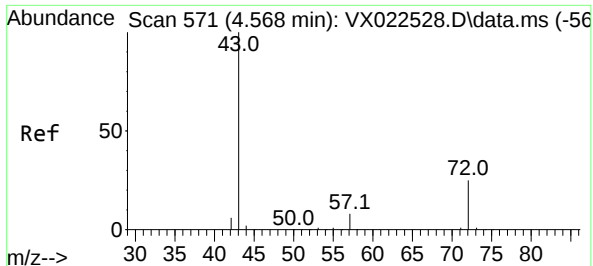
Tgt Ion: 43 Resp: 705  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.9 32.9#



#20  
Methylene Chloride  
Concen: 4.417 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 84 Resp: 4677  
Ion Ratio Lower Upper  
84 100  
49 115.9 88.6 132.8  
51 39.6 27.0 40.6  
86 56.6 50.3 75.5





#25

2-Butanone

Concen: 2.201 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.006 min

Lab File: VX022546.D

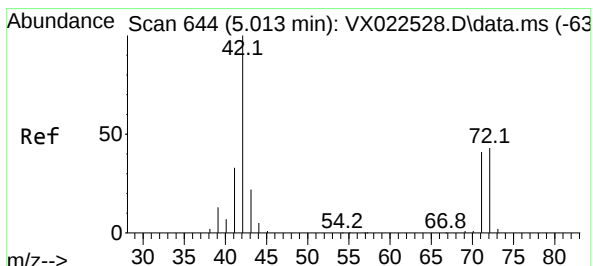
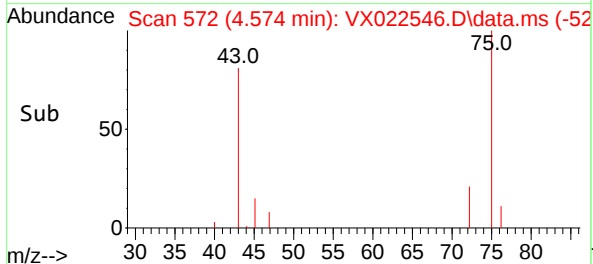
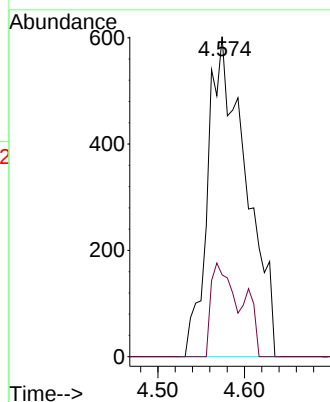
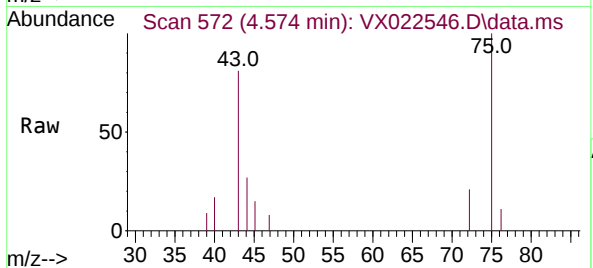
Acq: 07 Jun 2021 20:01

Tgt Ion: 43 Resp: 1845

Ion Ratio Lower Upper

43 100

72 25.6 23.7 35.5



#29

Tetrahydrofuran

Concen: 1.114 ug/l

RT: 5.037 min Scan# 648

Delta R.T. 0.024 min

Lab File: VX022546.D

Acq: 07 Jun 2021 20:01

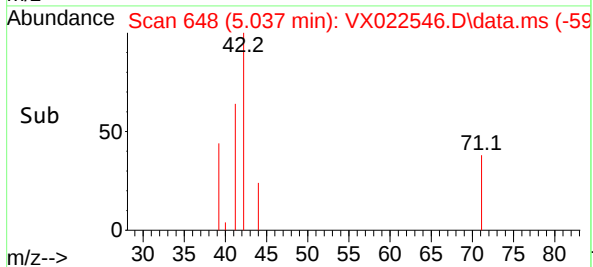
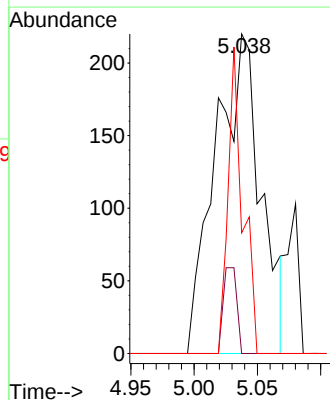
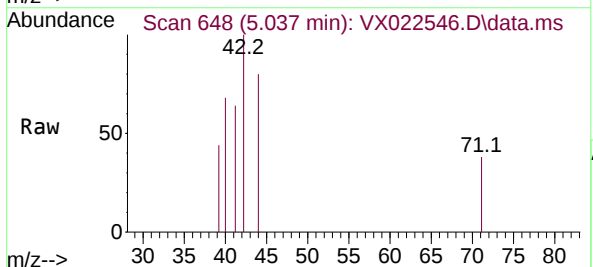
Tgt Ion: 42 Resp: 548

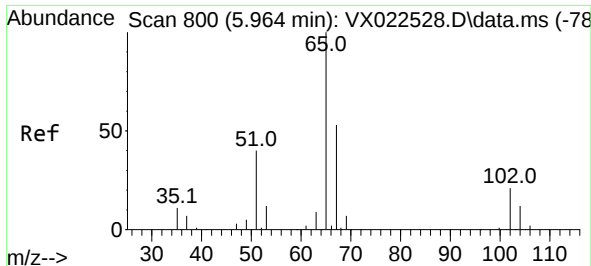
Ion Ratio Lower Upper

42 100

72 7.8 41.7 62.5#

71 31.2 38.4 57.6#



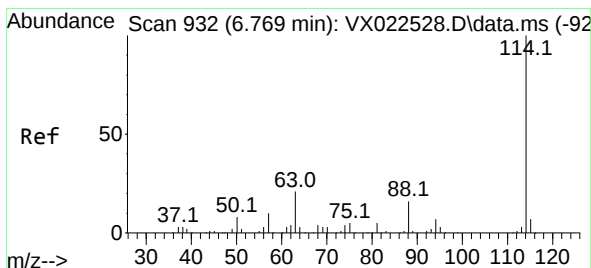
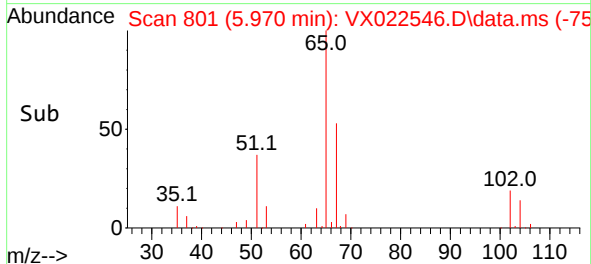
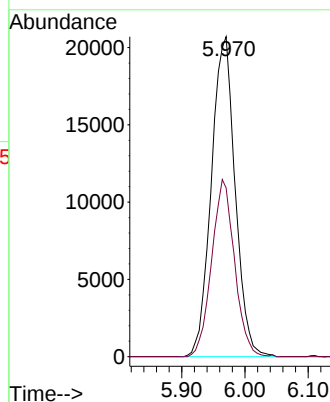
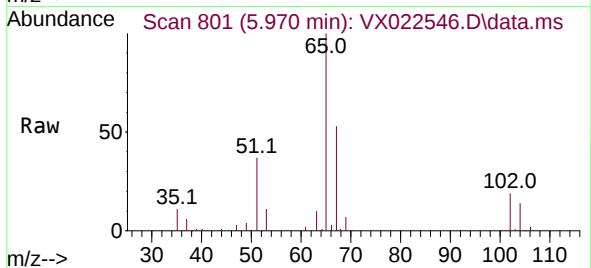


#33

1,2-Dichloroethane-d4  
Concen: 47.949 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Instrument :  
MSVOA\_X  
ClientSampled :

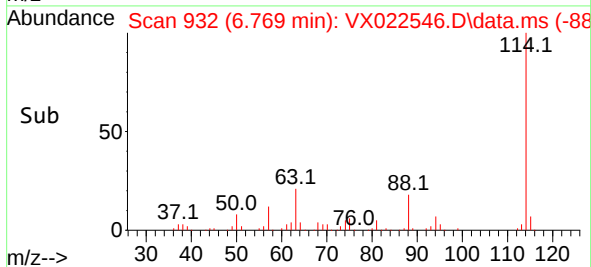
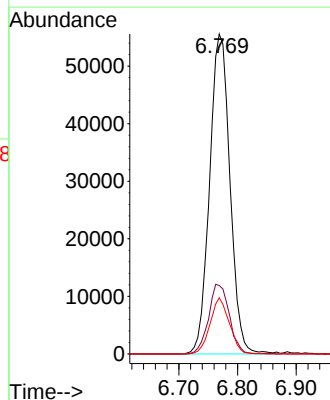
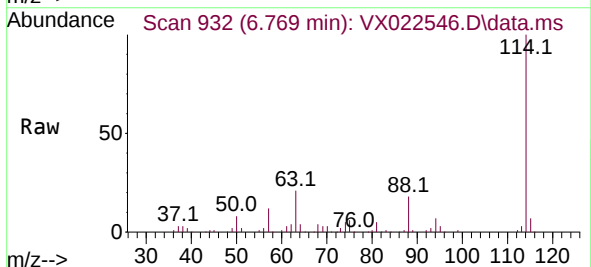
Tgt Ion: 65 Resp: 54120  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 105.4

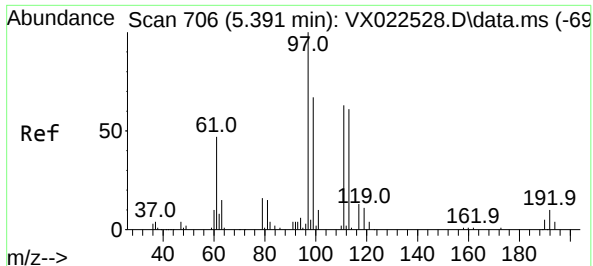


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. -0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 114 Resp: 134100  
Ion Ratio Lower Upper  
114 100  
63 21.4 0.0 40.8  
88 17.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 46.358 ug/l

RT: 5.397 min Scan# 707

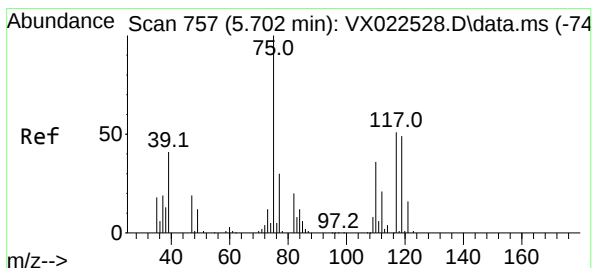
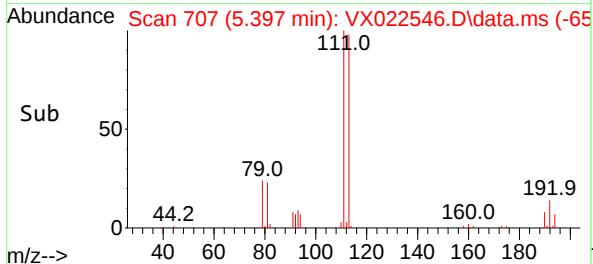
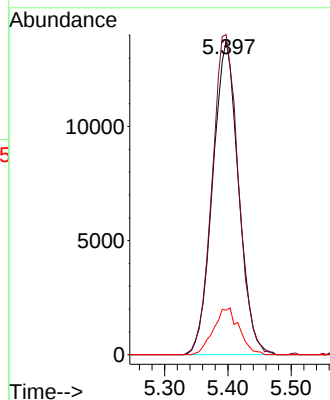
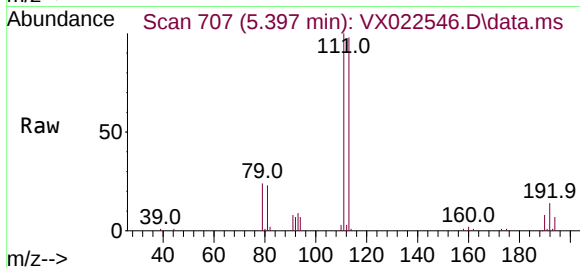
Delta R.T. 0.006 min

Lab File: VX022546.D

Acq: 07 Jun 2021 20:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 38895 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.7 | 81.9  | 122.9 |
| 192      | 14.9  | 16.7  | 25.1# |

Instrument :  
MSVOA\_X  
ClientSampled :



#36

1,1-Dichloropropene

Concen: 4.954 ug/l

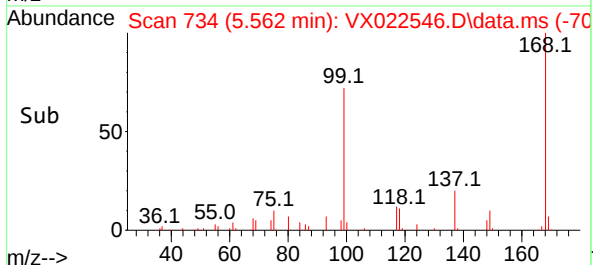
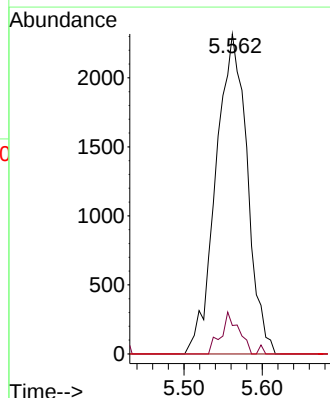
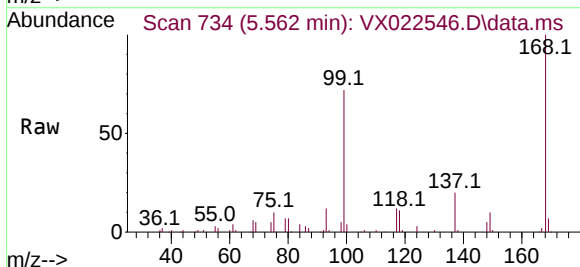
RT: 5.562 min Scan# 734

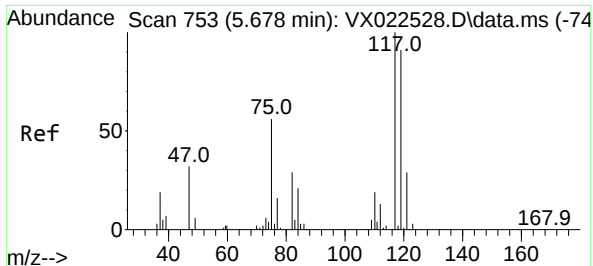
Delta R.T. -0.140 min

Lab File: VX022546.D

Acq: 07 Jun 2021 20:01

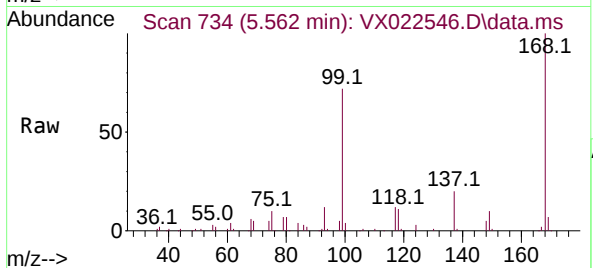
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 6427  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.4   | 18.1  | 54.4# |
| 77       | 0.0   | 25.3  | 37.9# |



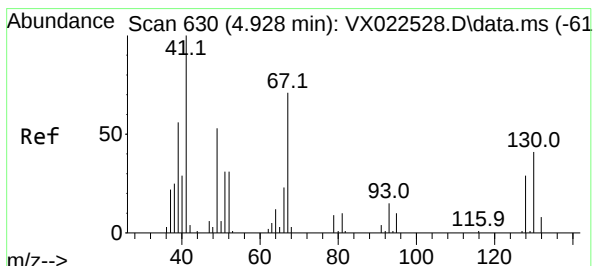
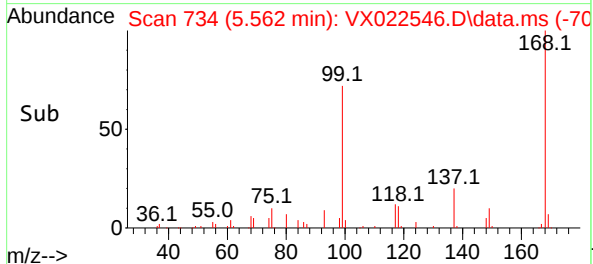
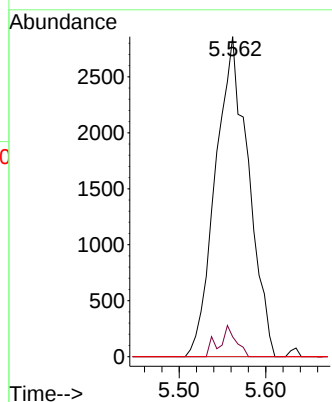


#38  
Carbon Tetrachloride  
Concen: 8.090 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.116 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Instrument :  
MSVOA\_X  
ClientSampleId :

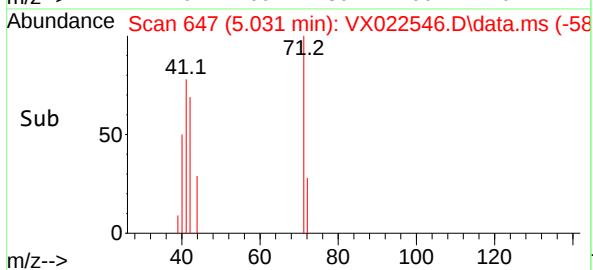
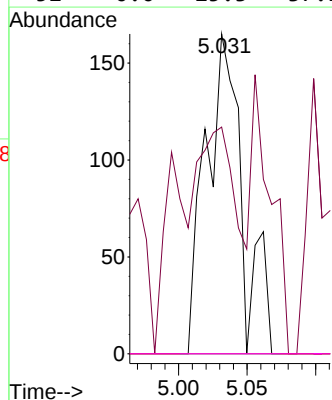
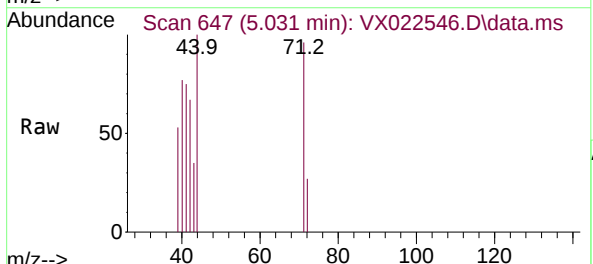


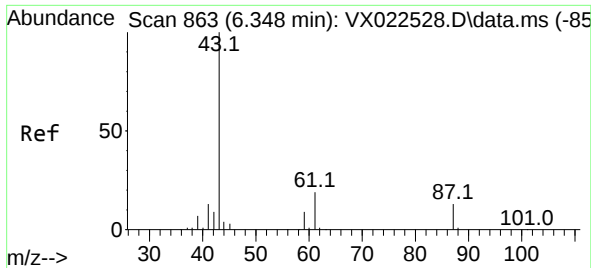
Tgt Ion:117 Resp: 7551  
Ion Ratio Lower Upper  
117 100  
119 6.2 76.2 114.2#  
121 0.0 24.8 37.2#



#41  
Methacrylonitrile  
Concen: 0.333 ug/l  
RT: 5.031 min Scan# 647  
Delta R.T. 0.103 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 41 Resp: 305  
Ion Ratio Lower Upper  
41 100  
39 78.0 42.5 63.7#  
67 0.0 65.0 97.6#  
52 0.0 25.3 37.9#

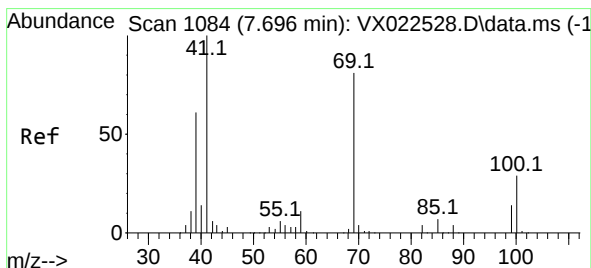
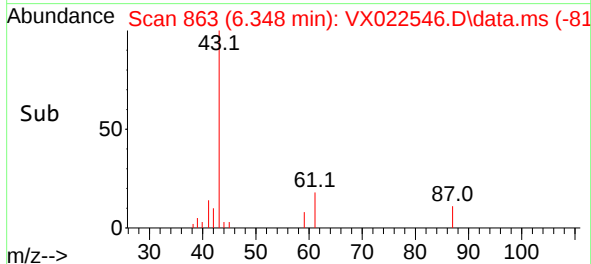
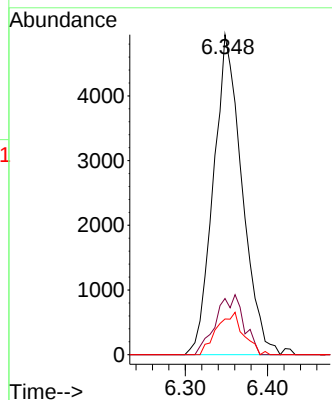
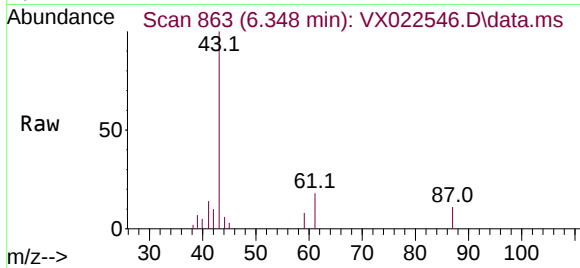




#43  
Isopropyl Acetate  
Concen: 4.422 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

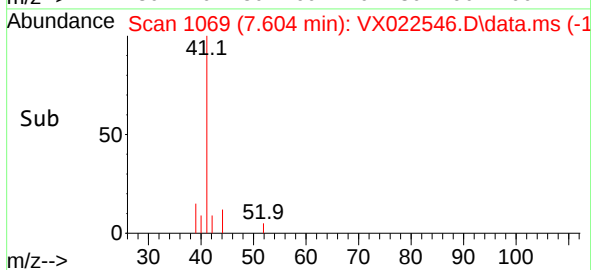
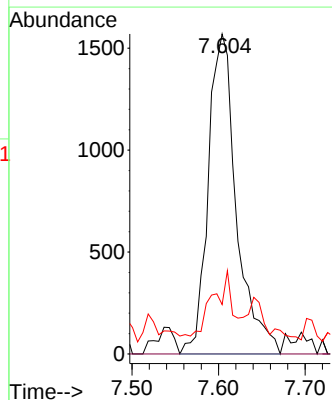
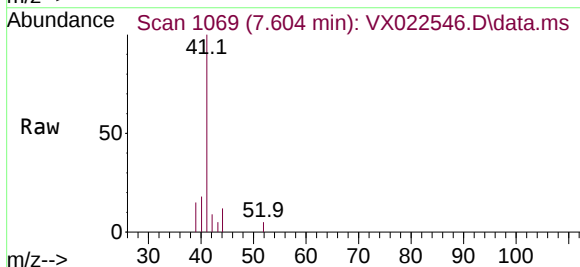
Instrument :  
MSVOA\_X  
ClientSampled :

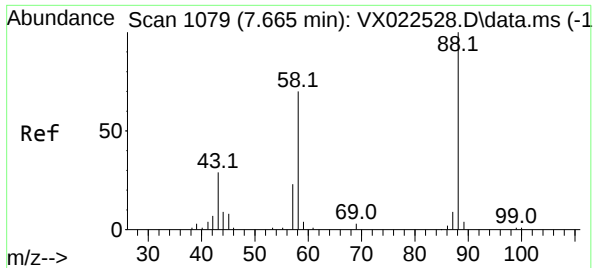
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11937 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 18.4  | 18.2  | 27.4  |
| 87       | 12.3  | 12.5  | 18.7# |



#48  
Methyl methacrylate  
Concen: 2.837 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.092 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 3563   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 76.0  | 114.0# |
| 39       | 0.0   | 44.6  | 67.0#  |

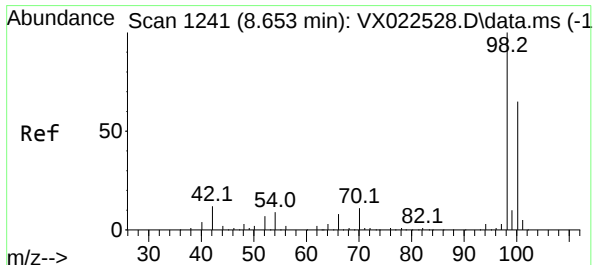
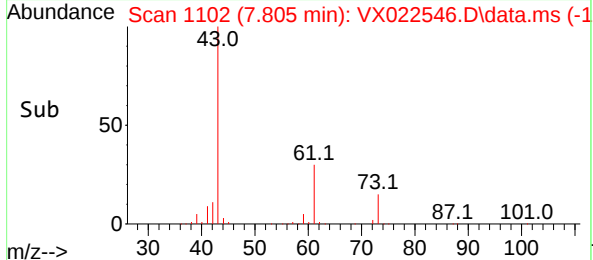
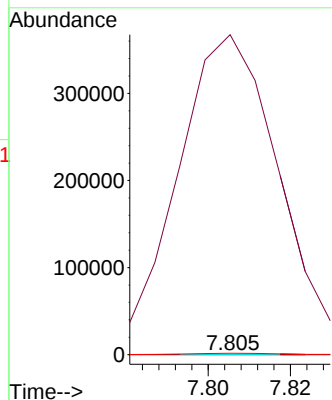
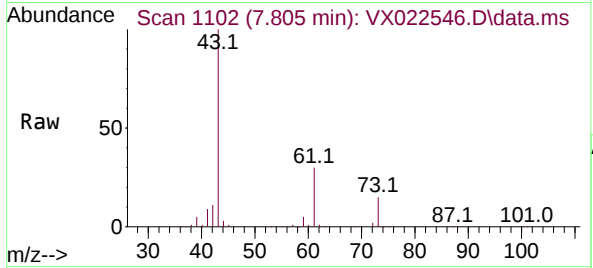




#49  
1,4-Dioxane  
Concen: 0.787 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.140 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

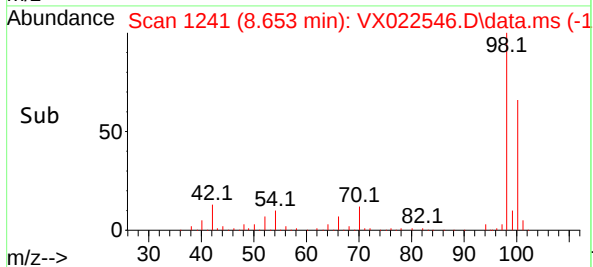
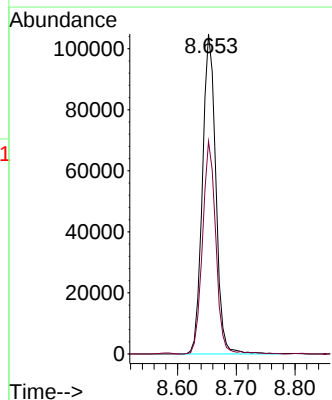
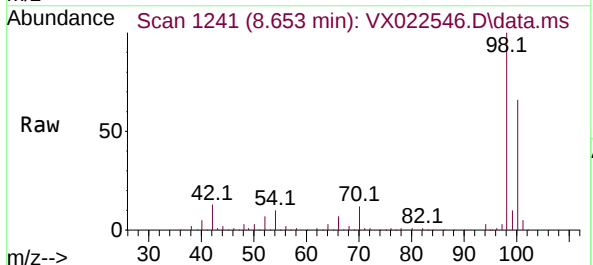
Instrument :  
MSVOA\_X  
ClientSampled :

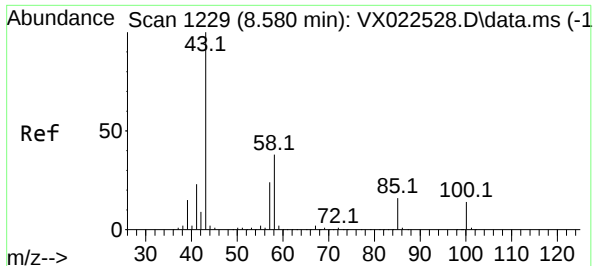
Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 3242755.0 23.2 34.8#  
58 13730.0 55.0 82.4#



#50  
Toluene-d8  
Concen: 49.611 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 98 Resp: 166085  
Ion Ratio Lower Upper  
98 100  
100 66.1 51.9 77.9

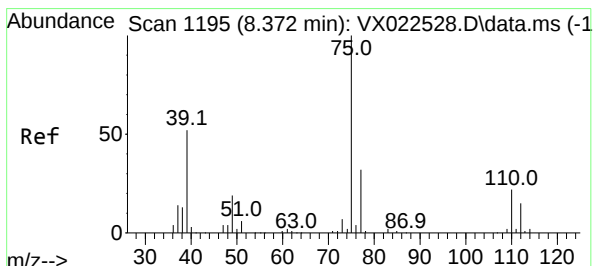
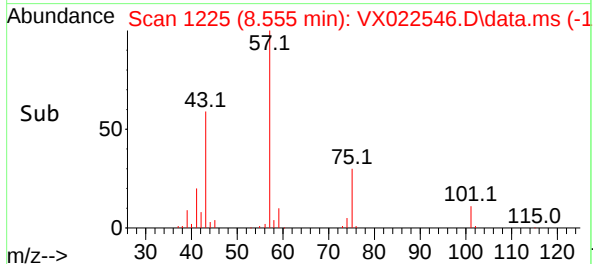
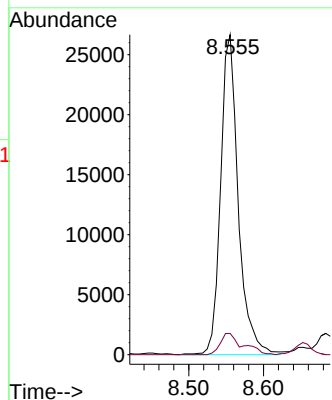
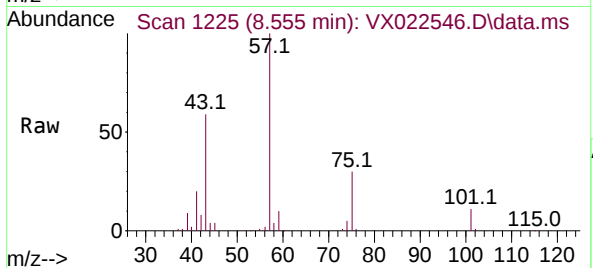




#51  
4-Methyl-2-Pentanone  
Concen: 25.989 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

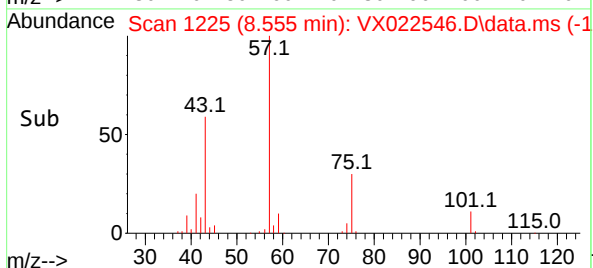
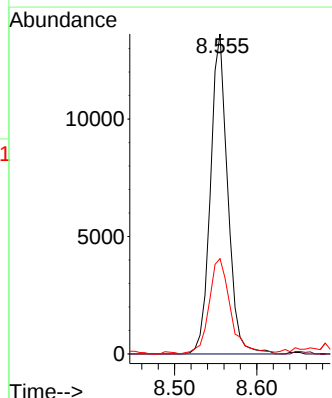
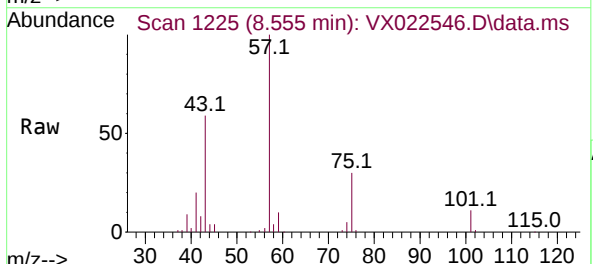
Instrument :  
MSVOA\_X  
ClientSampled :

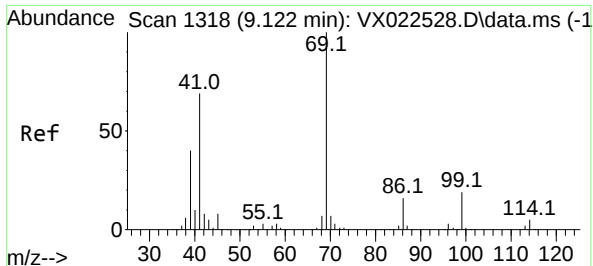
Tgt Ion: 43 Resp: 43701  
Ion Ratio Lower Upper  
43 100  
58 8.5 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 13.198 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

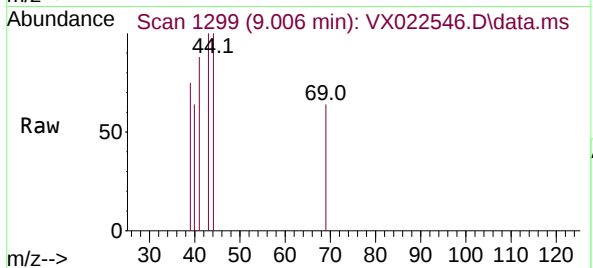
Tgt Ion: 75 Resp: 19802  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#  
39 29.8 35.1 52.7#



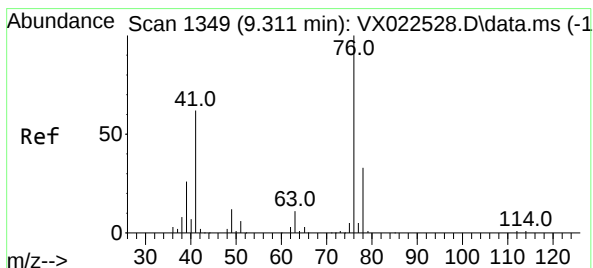
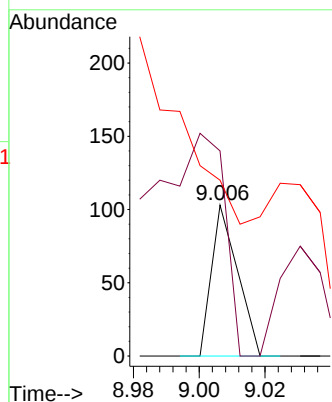
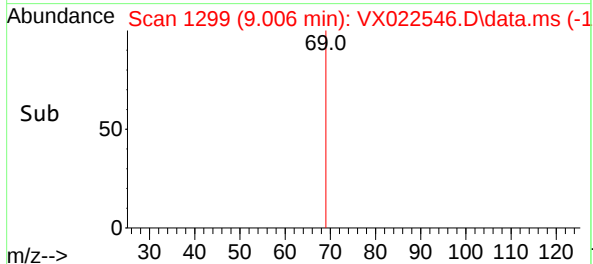


#56  
Ethyl methacrylate  
Concen: 2.731 ug/l  
RT: 9.006 min Scan# 1299  
Delta R.T. -0.116 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

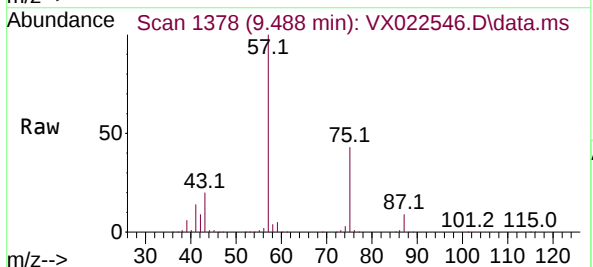
Instrument :  
MSVOA\_X  
ClientSampled :



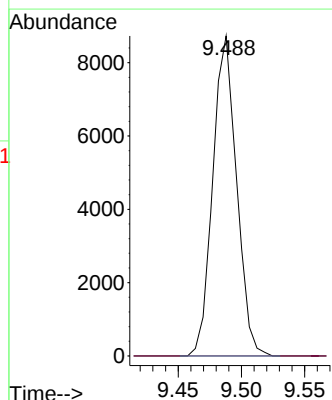
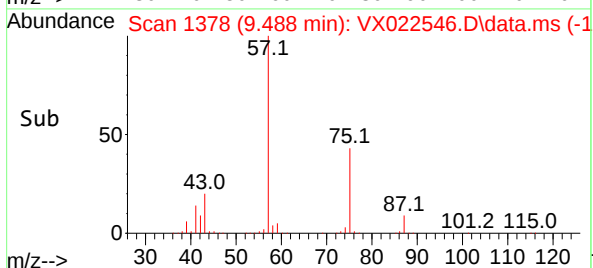
Tgt Ion: 69 Resp: 57  
Ion Ratio Lower Upper  
69 100  
41 0.0 46.8 70.2#  
39 0.0 24.7 37.1#

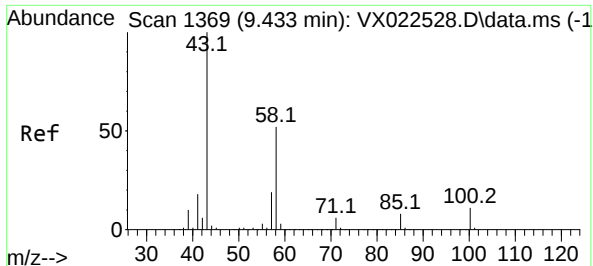


#57  
1,3-Dichloropropane  
Concen: 6.455 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01



Tgt Ion: 76 Resp: 11432  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.2#

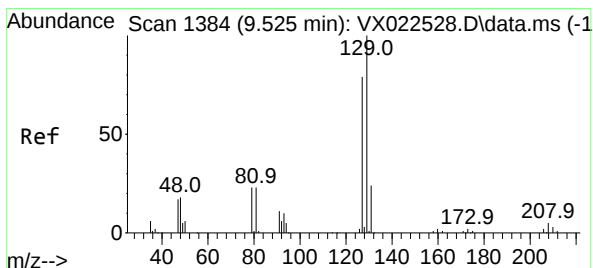
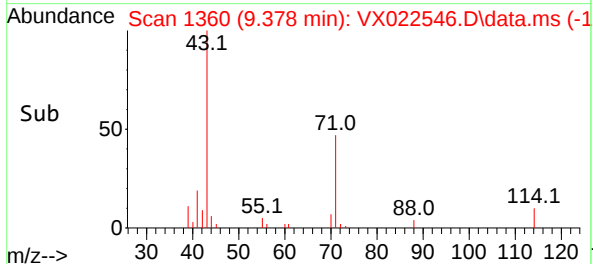
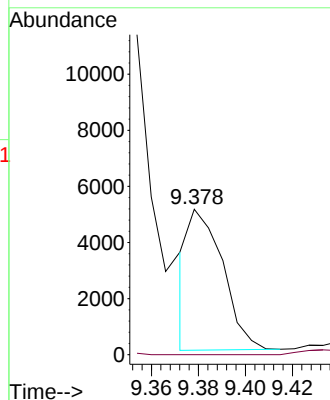
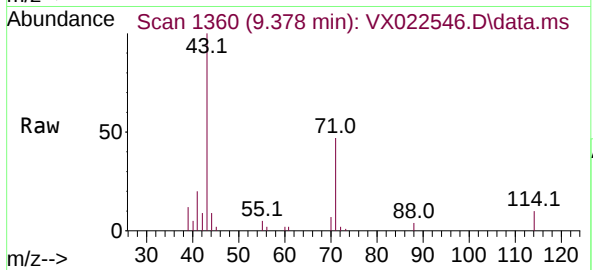




#59  
2-Hexanone  
Concen: 3.959 ug/l  
RT: 9.378 min Scan# 1360  
Delta R.T. -0.055 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

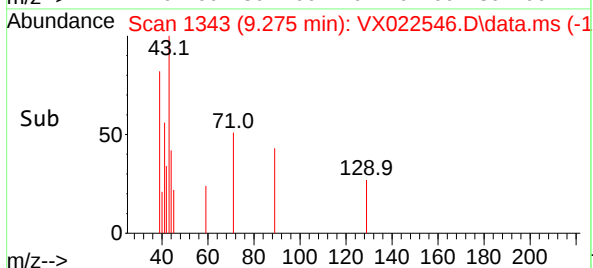
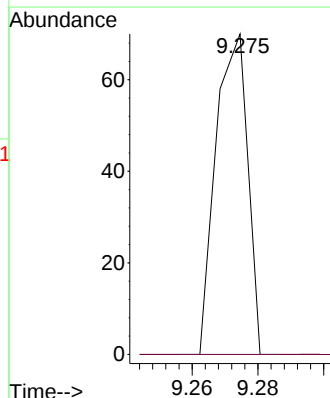
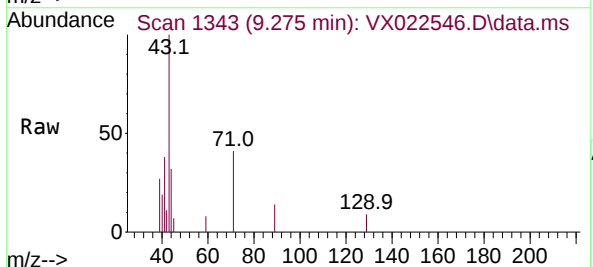
Instrument :  
MSVOA\_X  
ClientSampled :

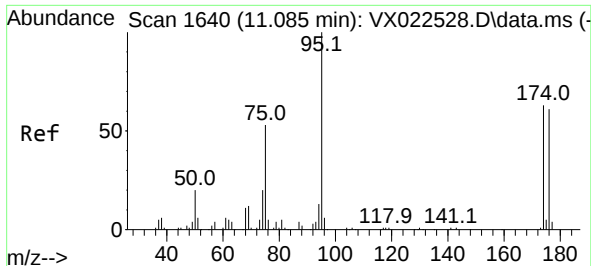
Tgt Ion: 43 Resp: 5086  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.9 92.8#



#60  
Dibromochloromethane  
Concen: 3.617 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion:129 Resp: 47  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

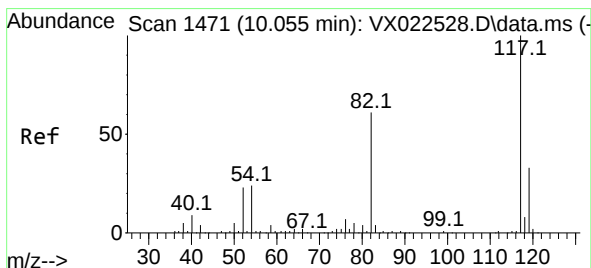
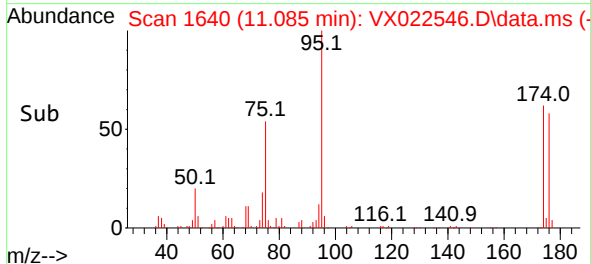
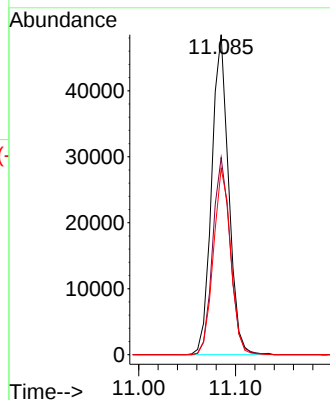
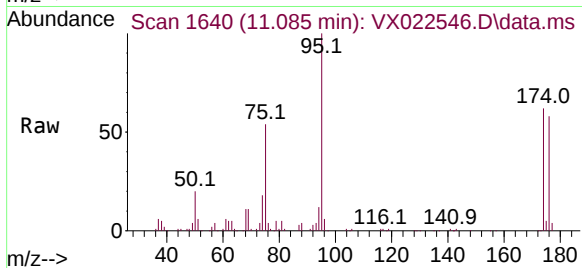




#62  
4-Bromofluorobenzene  
Concen: 47.507 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

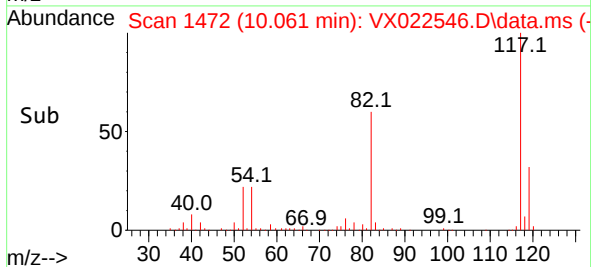
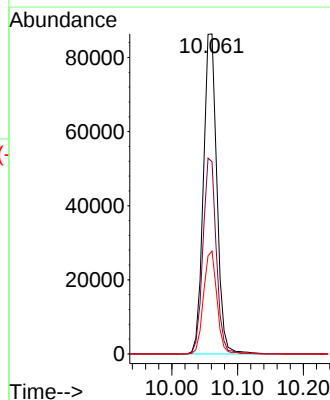
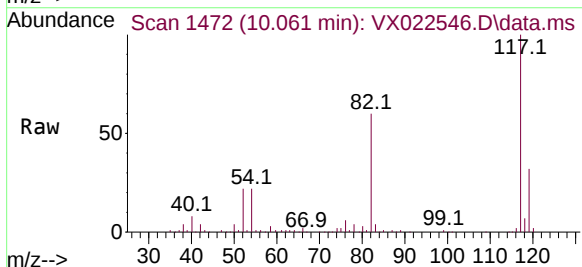
Instrument :  
MSVOA\_X  
ClientSampled :

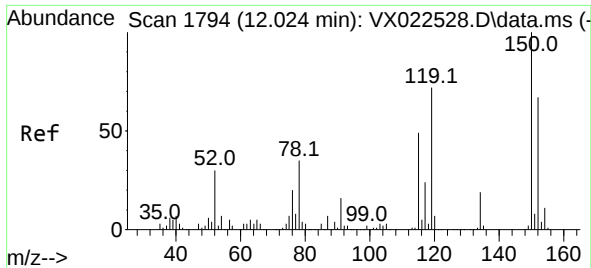
Tgt Ion: 95 Resp: 59115  
Ion Ratio Lower Upper  
95 100  
174 63.4 0.0 154.6  
176 59.5 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.006 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 117 Resp: 123145  
Ion Ratio Lower Upper  
117 100  
82 60.1 47.4 71.2  
119 32.1 26.6 39.8

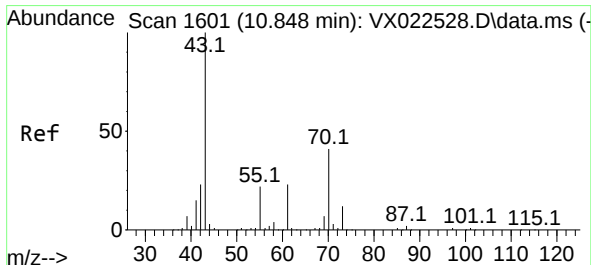
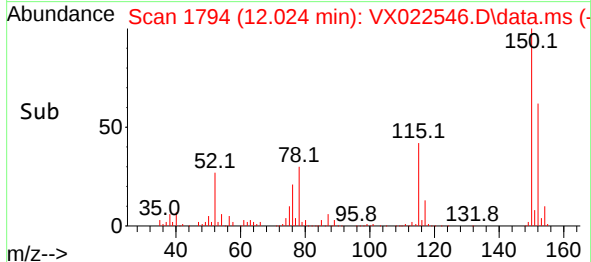
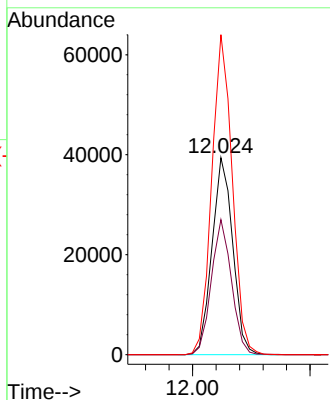
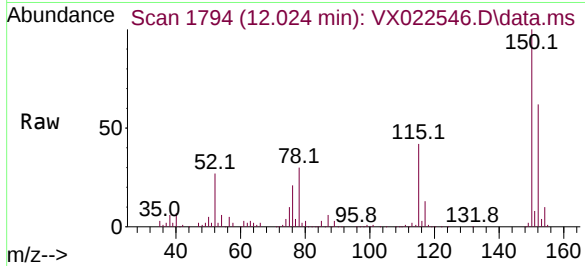




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

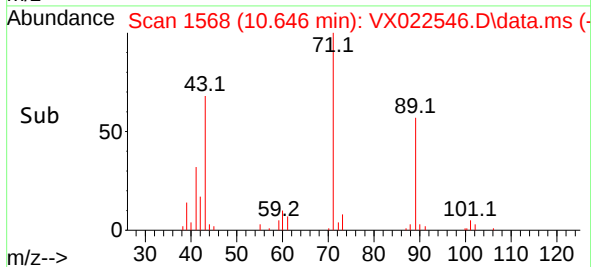
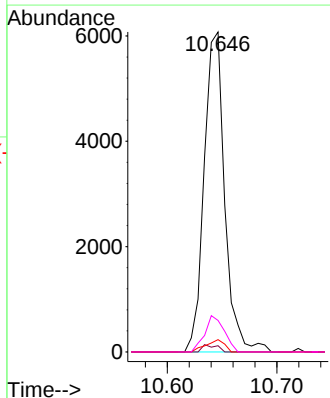
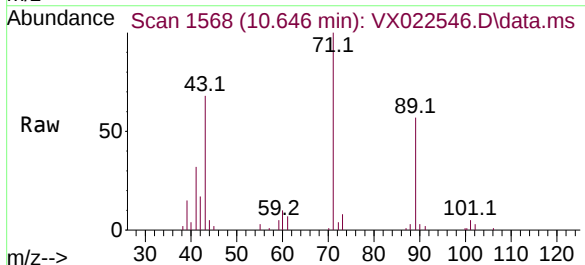
Instrument :  
MSVOA\_X  
ClientSampleId :

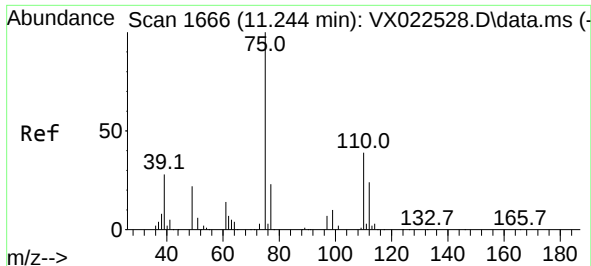
Tgt Ion:152 Resp: 48332  
Ion Ratio Lower Upper  
152 100  
115 66.6 41.1 123.3  
150 160.6 0.0 349.0



#74  
N-ethyl acetate  
Concen: 3.762 ug/l  
RT: 10.646 min Scan# 1568  
Delta R.T. -0.202 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 43 Resp: 7951  
Ion Ratio Lower Upper  
43 100  
70 1.6 39.0 58.6#  
55 3.4 21.5 32.3#  
61 10.7 22.1 33.1#

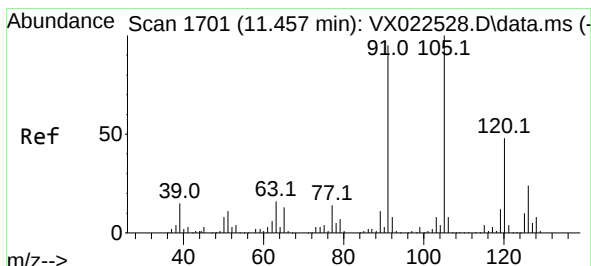
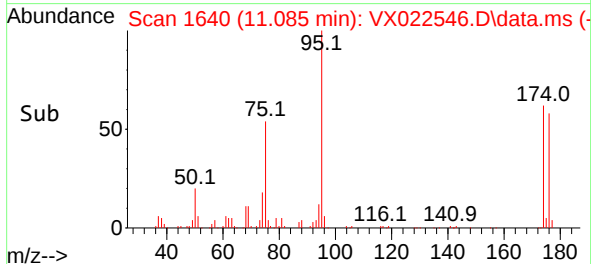
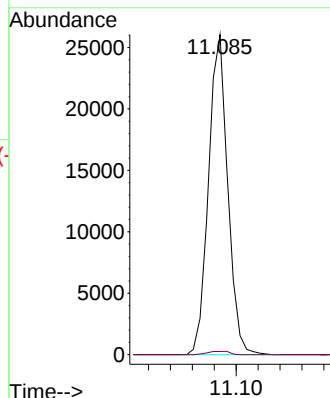
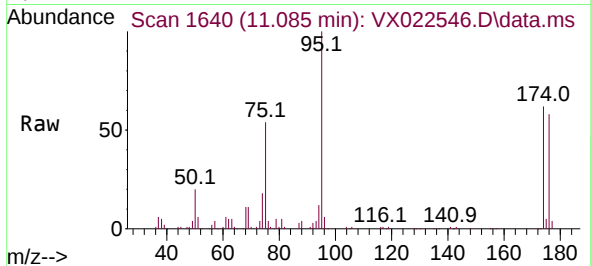




#76  
1,2,3-Trichloropropane  
Concen: 25.288 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

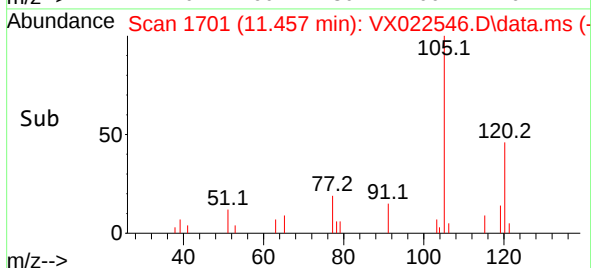
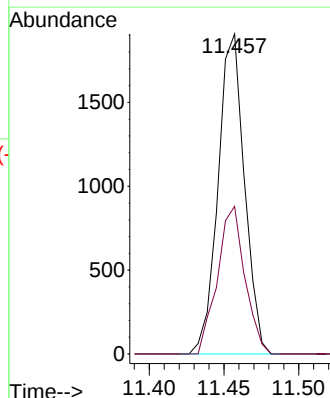
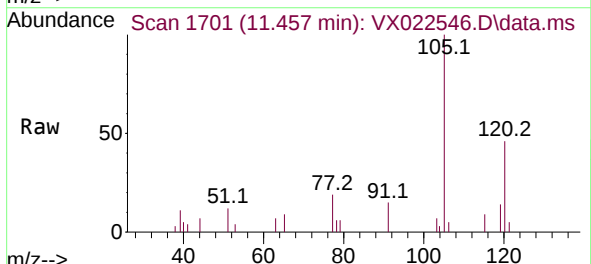
Instrument :  
MSVOA\_X  
ClientSampled :

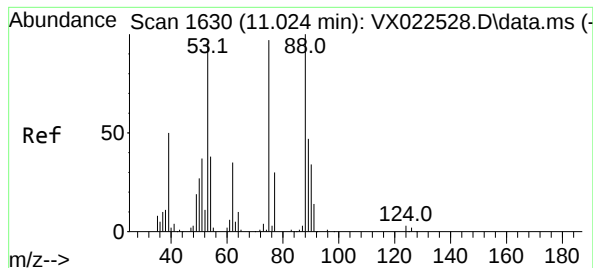
Tgt Ion: 75 Resp: 31663  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.696 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VX022546.D  
Acq: 07 Jun 2021 20:01

Tgt Ion: 105 Resp: 2342  
Ion Ratio Lower Upper  
105 100  
120 47.9 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

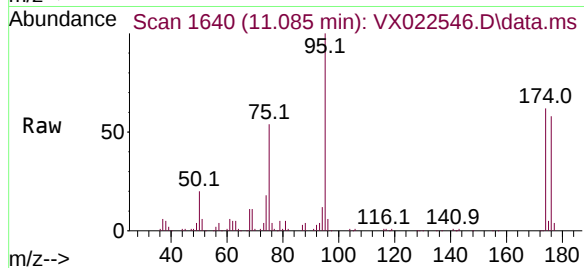
Concen: 62.512 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.061 min

Lab File: VX022546.D

Acq: 07 Jun 2021 20:01



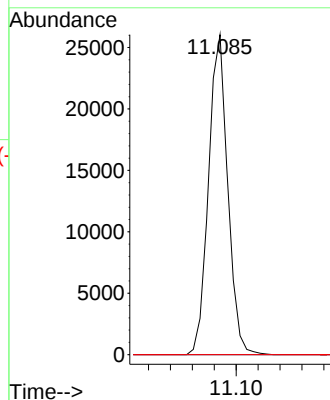
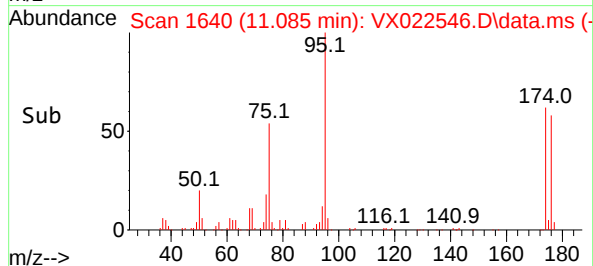
Tgt Ion: 75 Resp: 31663

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#



Instrument :  
MSVOA\_X  
ClientSampleId :