

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031121\  
 Data File : VX021157.D  
 Acq On : 11 Mar 2021 15:41  
 Operator : JC/MD  
 Sample : M1603-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 12 02:21:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 24 13:50:55 2021  
 Response via : Initial Calibration

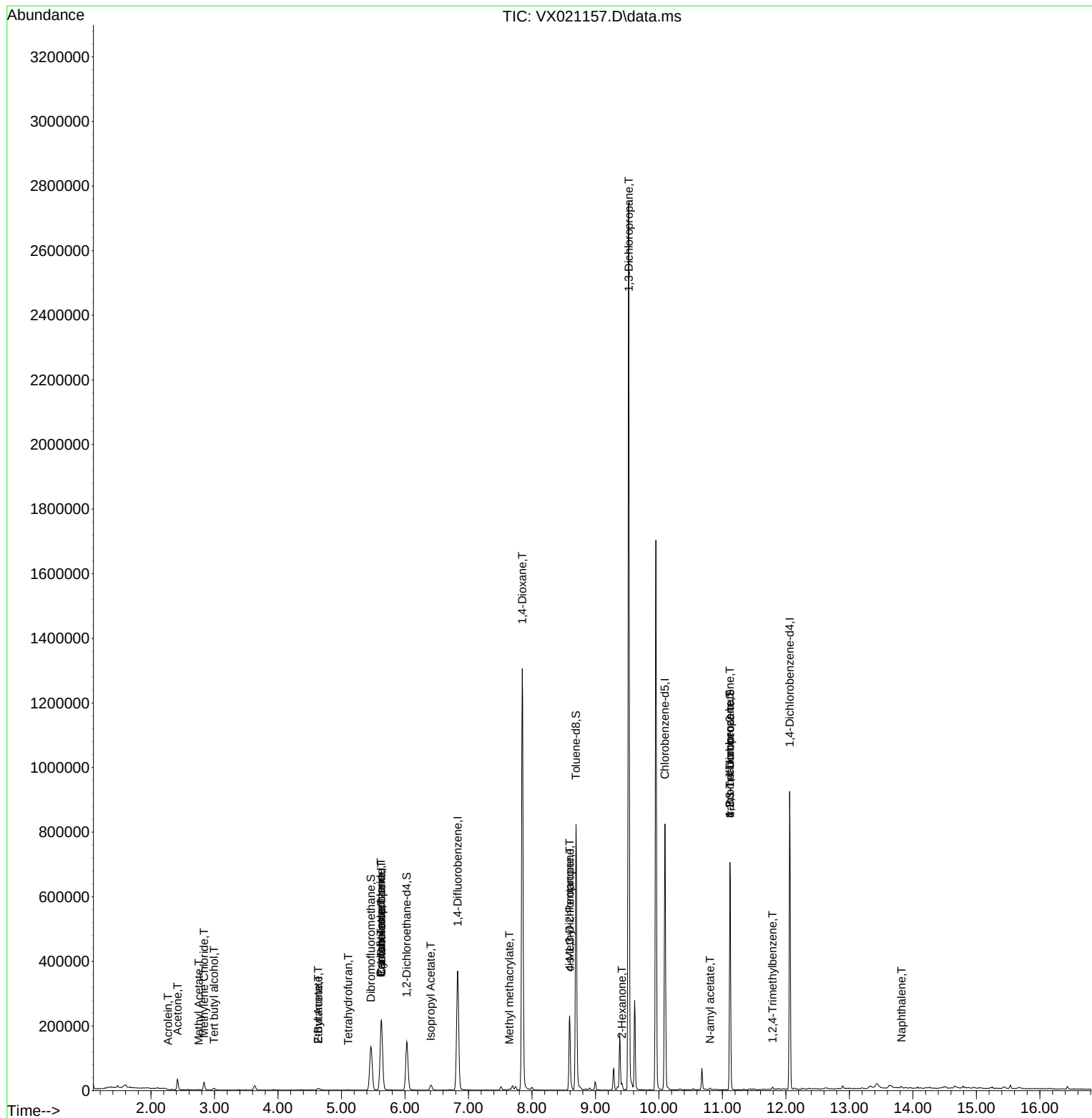
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.623  | 168   | 213417   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.829  | 114   | 387842   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094 | 117   | 386999   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.059 | 152   | 194588   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.029  | 65    | 138954   | 48.20     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 96.40%   |
| 35) Dibromofluoromethane      | 5.464  | 113   | 120543   | 51.15     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 102.30%  |
| 50) Toluene-d8                | 8.694  | 98    | 492846   | 53.64     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 107.28%  |
| 62) 4-Bromofluorobenzene      | 11.118 | 95    | 198740   | 58.50     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 117.00%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.628  | 94    | 485      | Below Cal | #      | 66       |
| 11) Tert butyl alcohol        | 2.993  | 59    | 3614     | 5.63      | ug/l # | 78       |
| 13) Acrolein                  | 2.270  | 56    | 184      | 0.46      | ug/l # | 14       |
| 16) Acetone                   | 2.417  | 43    | 33624    | 28.31     | ug/l   | 97       |
| 18) Methyl Acetate            | 2.752  | 43    | 1424     | 0.51      | ug/l   | 94       |
| 20) Methylene Chloride        | 2.834  | 84    | 11380    | 3.99      | ug/l   | 98       |
| 25) 2-Butanone                | 4.635  | 43    | 5867     | 3.25      | ug/l   | 92       |
| 29) Tetrahydrofuran           | 5.105  | 42    | 762      | 0.66      | ug/l # | 86       |
| 31) Cyclohexane               | 5.629  | 56    | 4111     | 0.98      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.629  | 75    | 15960    | 4.33      | ug/l # | 48       |
| 37) Ethyl Acetate             | 4.635  | 43    | 5867     | 1.67      | ug/l # | 64       |
| 38) Carbon Tetrachloride      | 5.623  | 117   | 20479    | 5.73      | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.406  | 43    | 20924    | 3.51      | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.647  | 41    | 5223     | 1.75      | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.847  | 88    | 141      | 2.02      | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.594  | 43    | 76439    | 22.01     | ug/l # | 47       |
| 54) cis-1,3-Dichloropropene   | 8.594  | 75    | 40970    | 8.59      | ug/l # | 57       |
| 57) 1,3-Dichloropropane       | 9.524  | 76    | 24259    | 5.20      | ug/l # | 43       |
| 59) 2-Hexanone                | 9.418  | 43    | 10171    | 3.90      | ug/l # | 19       |
| 74) N-amyl acetate            | 10.806 | 43    | 2214     | 0.36      | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.118 | 75    | 92359    | 22.06     | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.118 | 75    | 92359    | 48.85     | ug/l # | 12       |
| 84) 1,2,4-Trimethylbenzene    | 11.789 | 105   | 2913     | 0.22      | ug/l   | 93       |
| 95) Naphthalene               | 13.818 | 128   | 3733     | 0.26      | ug/l # | 77       |
| -----                         |        |       |          |           |        |          |

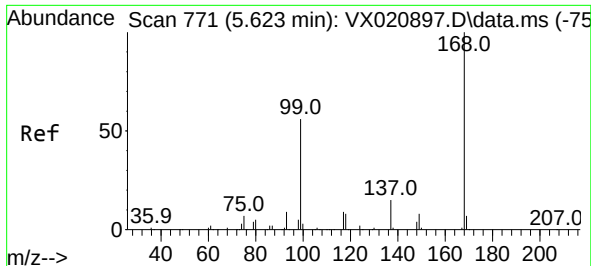
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 24 13:50:55 2021  
Response via : Initial Calibration

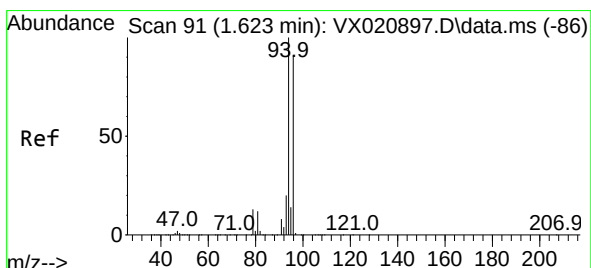
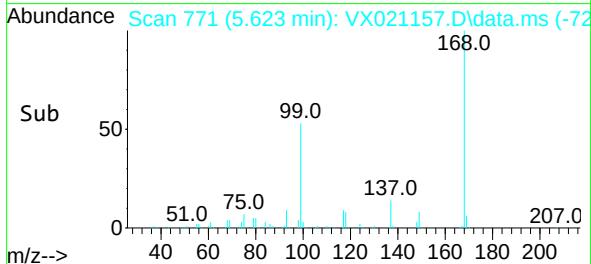
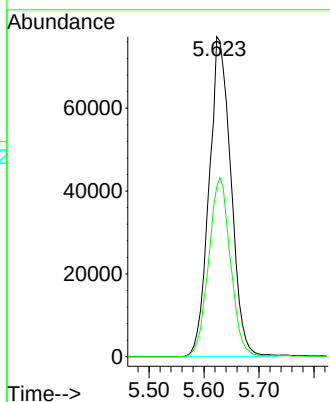
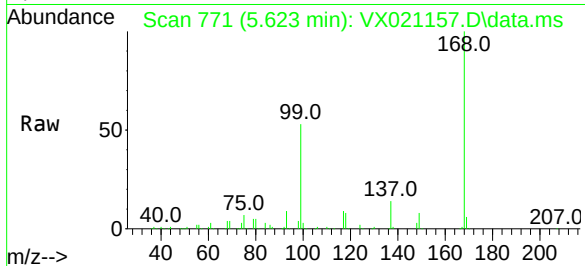




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. 0.000 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

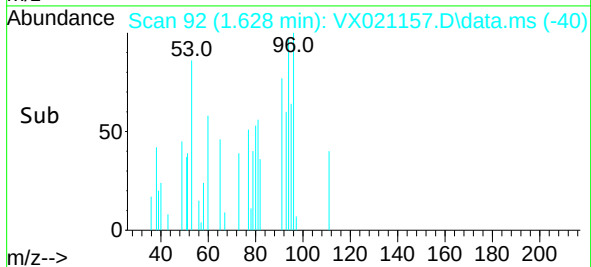
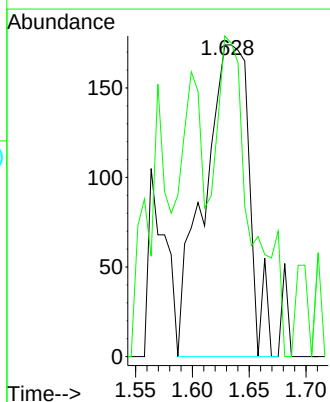
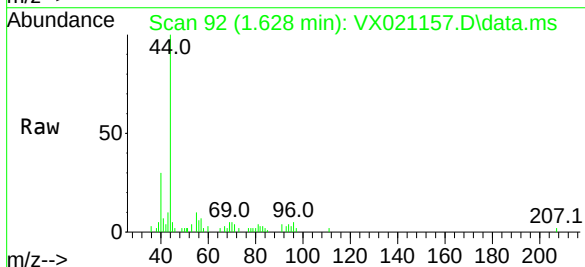
Instrument :  
MSVOA\_X  
ClientSampleId :

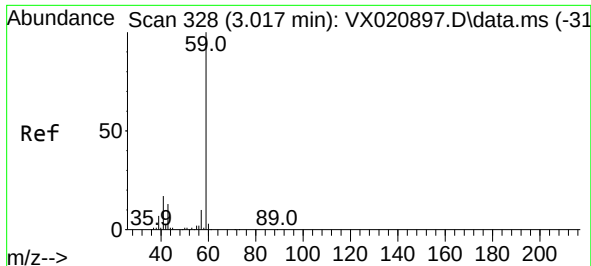
Tgt Ion:168 Resp: 213417  
Ion Ratio Lower Upper  
168 100  
99 53.1 45.8 68.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.628 min Scan# 92  
Delta R.T. 0.005 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 94 Resp: 485  
Ion Ratio Lower Upper  
94 100  
96 62.6 76.4 114.6#

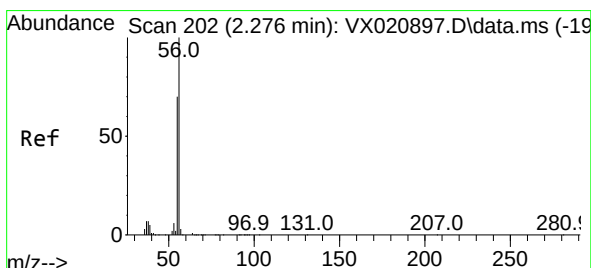
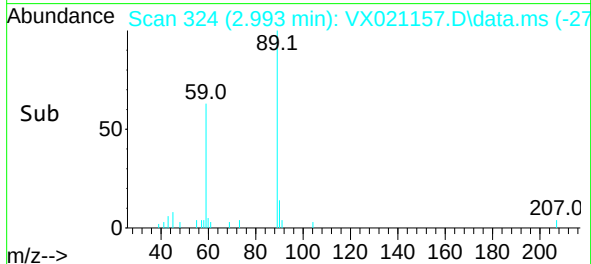
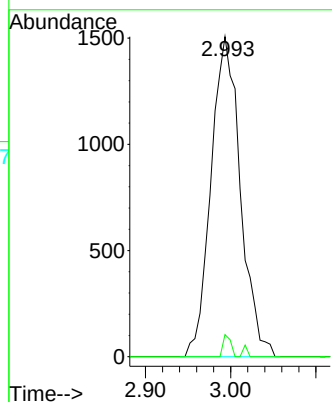
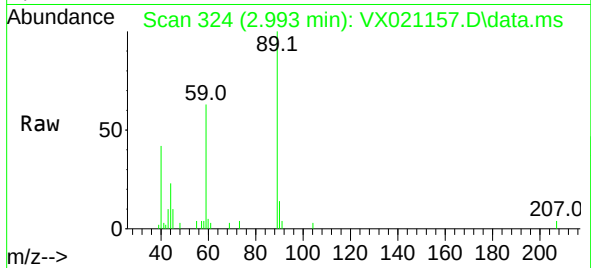




#11  
Tert butyl alcohol  
Concen: 5.63 ug/l  
RT: 2.993 min Scan# 324  
Delta R.T. -0.024 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

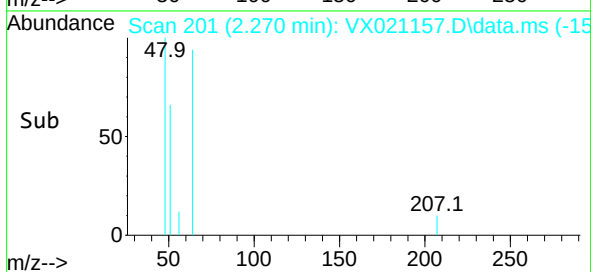
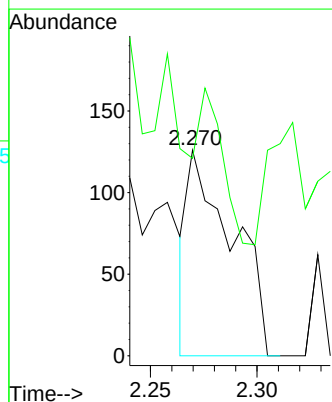
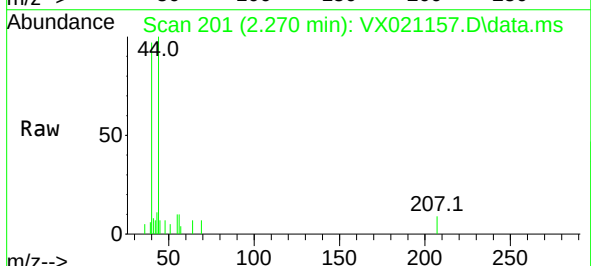
Instrument :  
MSVOA\_X  
ClientSampled :

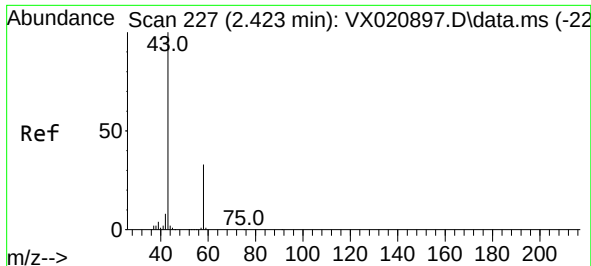
Tgt Ion: 59 Resp: 3614  
Ion Ratio Lower Upper  
59 100  
57 1.8 7.8 11.8#



#13  
Acrolein  
Concen: 0.46 ug/l  
RT: 2.270 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 56 Resp: 184  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#

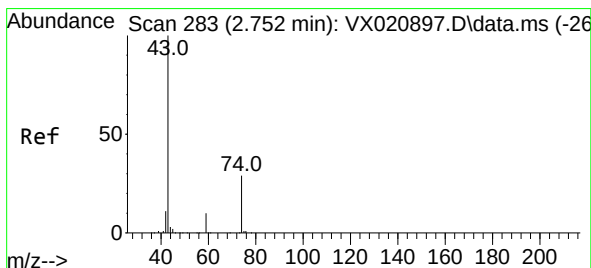
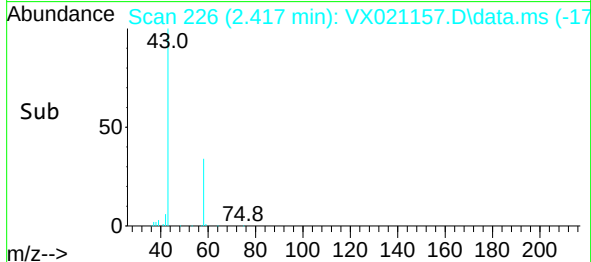
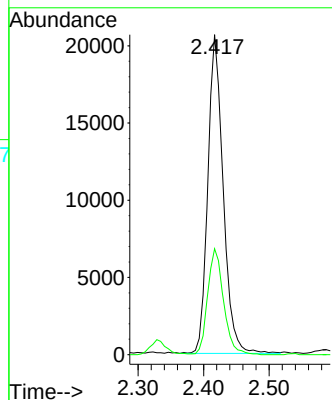
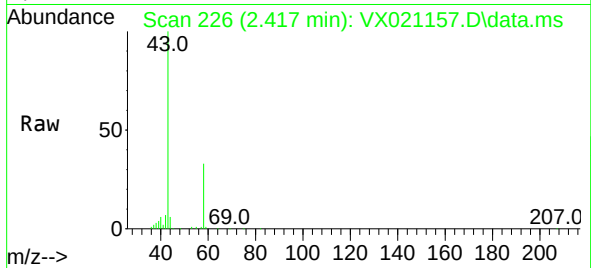




#16  
Acetone  
Concen: 28.31 ug/l  
RT: 2.417 min Scan# 226  
Delta R.T. -0.006 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

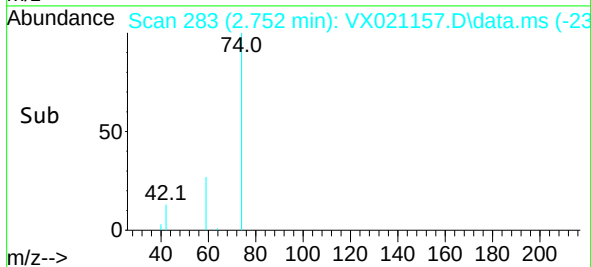
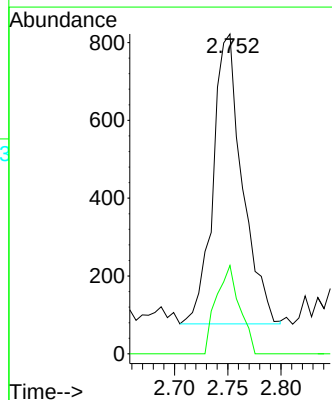
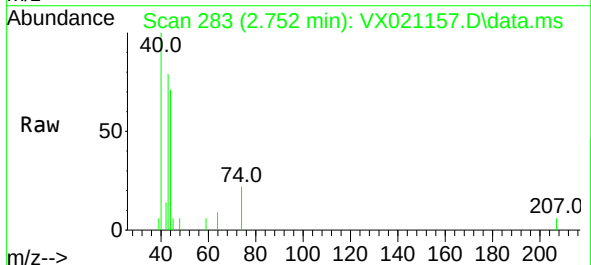
Instrument :  
MSVOA\_X  
ClientSampleId :

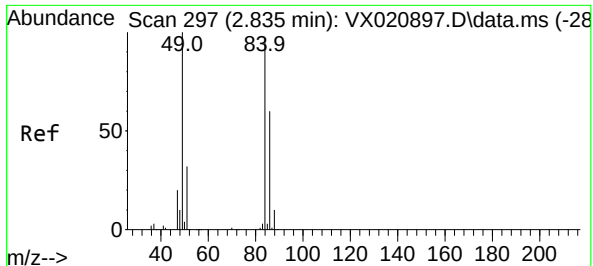
Tgt Ion: 43 Resp: 33624  
Ion Ratio Lower Upper  
43 100  
58 33.2 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.51 ug/l  
RT: 2.752 min Scan# 283  
Delta R.T. -0.000 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 43 Resp: 1424  
Ion Ratio Lower Upper  
43 100  
74 24.4 21.9 32.9





#20

Methylene Chloride

Concen: 3.99 ug/l

RT: 2.834 min Scan# 297

Delta R.T. -0.000 min

Lab File: VX021157.D

Acq: 11 Mar 2021 15:41

Tgt Ion: 84 Resp: 11380

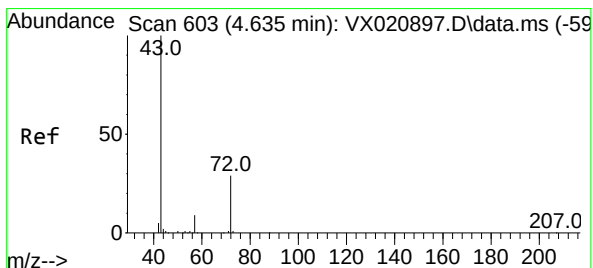
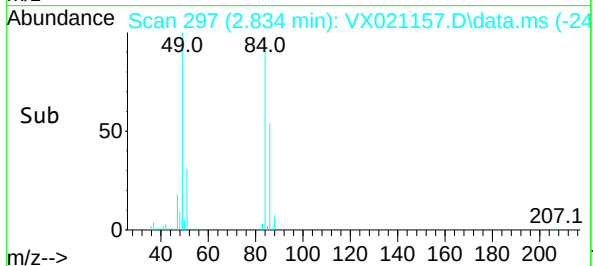
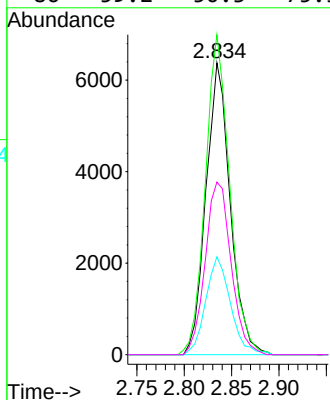
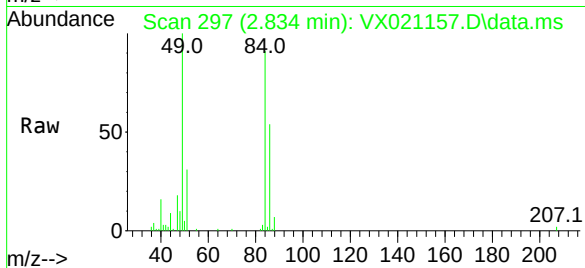
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 109.6 | 88.6  | 132.8 |
| 51  | 33.5  | 27.0  | 40.6  |
| 86  | 59.2  | 50.3  | 75.5  |

84 100

49 109.6 88.6 132.8

51 33.5 27.0 40.6

86 59.2 50.3 75.5



#25

2-Butanone

Concen: 3.25 ug/l

RT: 4.635 min Scan# 603

Delta R.T. -0.000 min

Lab File: VX021157.D

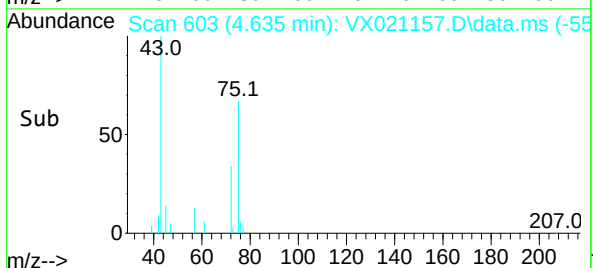
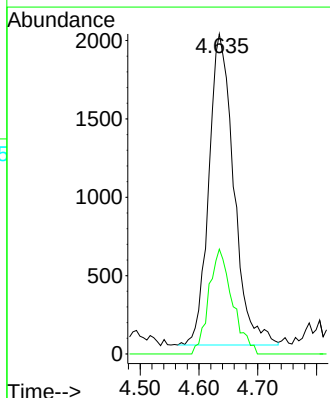
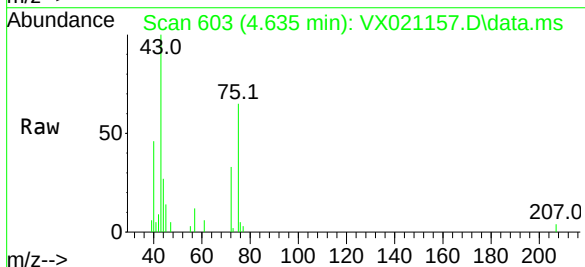
Acq: 11 Mar 2021 15:41

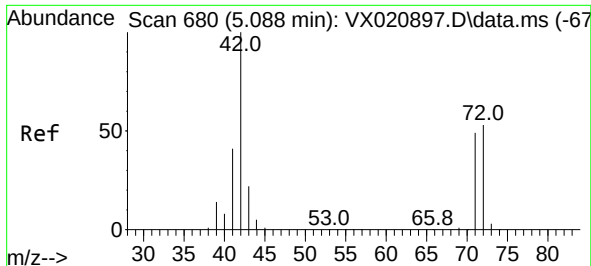
Tgt Ion: 43 Resp: 5867

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 33.7  | 23.7  | 35.5  |

43 100

72 33.7 23.7 35.5





#29

Tetrahydrofuran

Concen: 0.66 ug/l

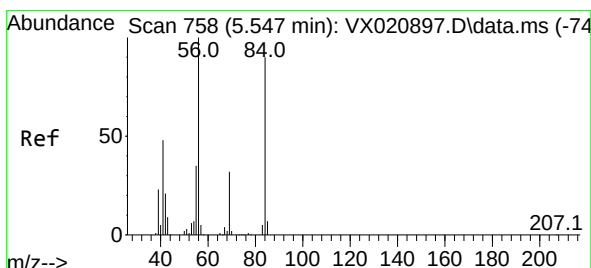
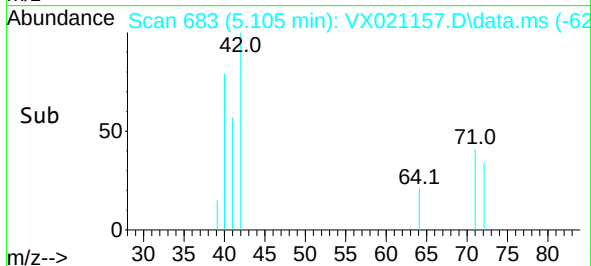
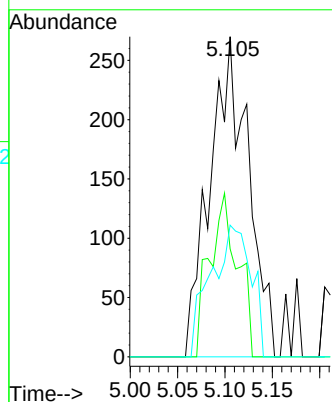
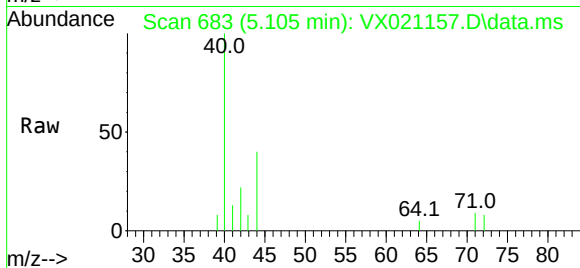
RT: 5.105 min Scan# 683

Delta R.T. 0.018 min

Lab File: VX021157.D

Acq: 11 Mar 2021 15:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 762   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 37.7  | 41.7  | 62.5# |
| 71       | 43.2  | 38.4  | 57.6  |



#31

Cyclohexane

Concen: 0.98 ug/l

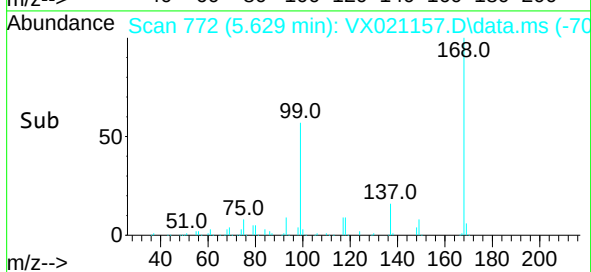
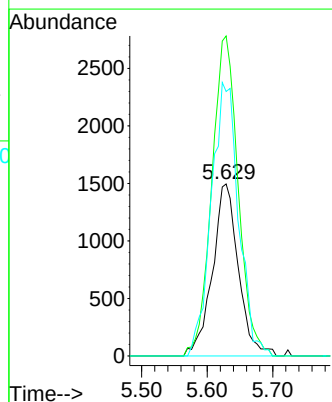
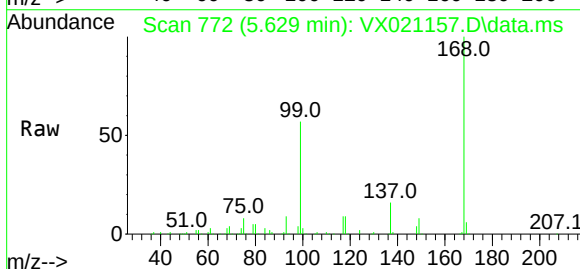
RT: 5.629 min Scan# 772

Delta R.T. 0.082 min

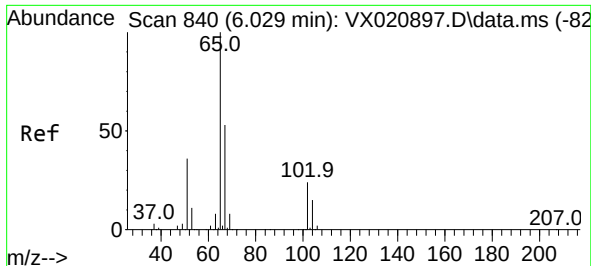
Lab File: VX021157.D

Acq: 11 Mar 2021 15:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4111   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 186.0 | 25.3  | 37.9#  |
| 84       | 153.7 | 71.4  | 107.0# |



Instrument :  
MSVOA\_X  
ClientSampleId :



#33

1,2-Dichloroethane-d4

Concen: 48.20 ug/l

RT: 6.029 min Scan# 840

Delta R.T. -0.000 min

Lab File: VX021157.D

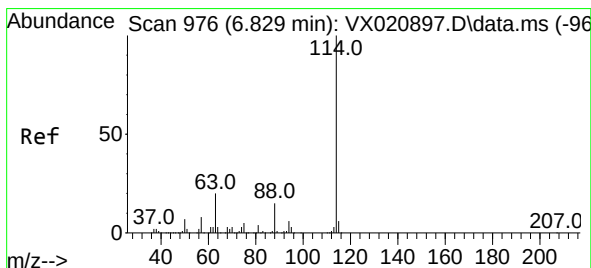
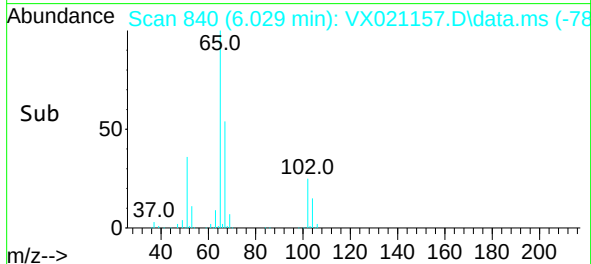
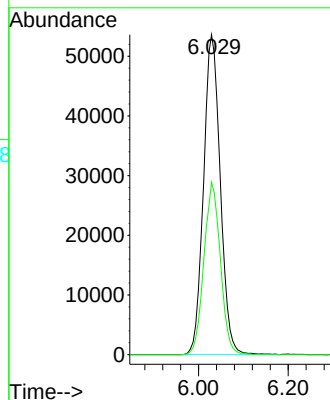
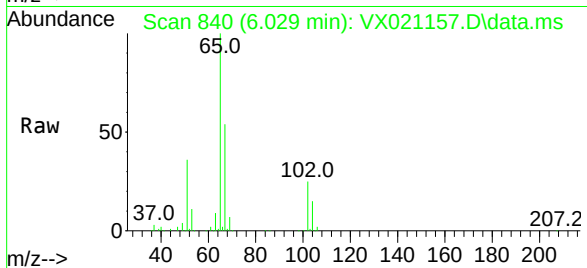
Acq: 11 Mar 2021 15:41

Tgt Ion: 65 Resp: 138954

Ion Ratio Lower Upper

65 100

67 53.0 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: VX021157.D

Acq: 11 Mar 2021 15:41

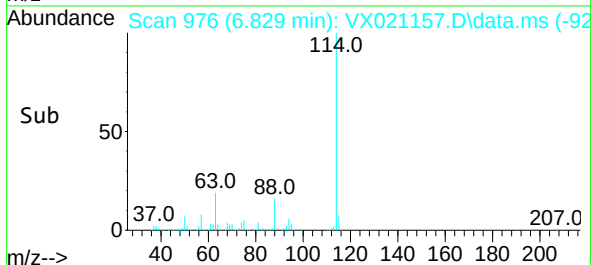
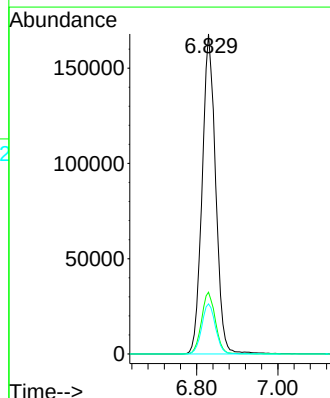
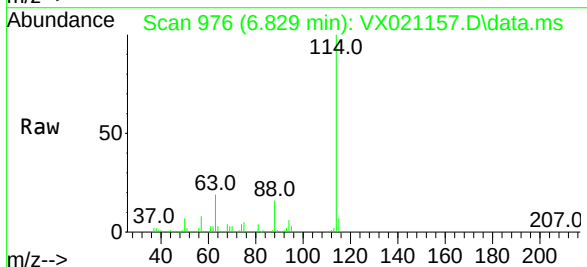
Tgt Ion: 114 Resp: 387842

Ion Ratio Lower Upper

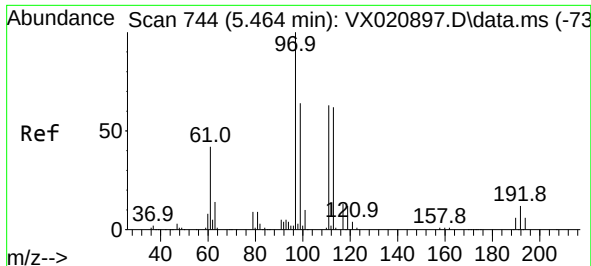
114 100

63 19.3 0.0 40.8

88 15.7 0.0 32.8



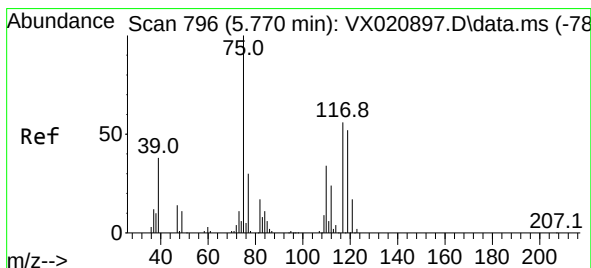
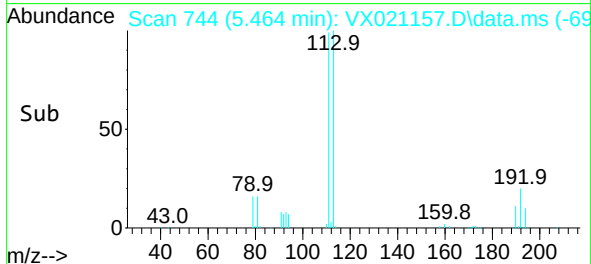
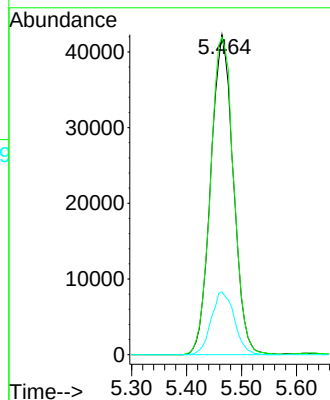
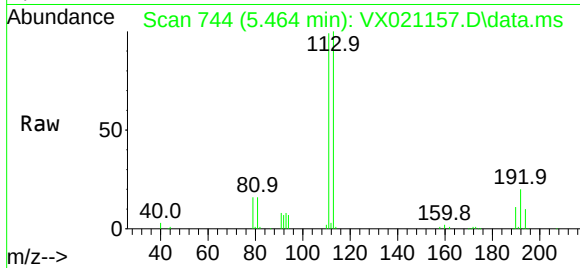




#35  
Dibromofluoromethane  
Concen: 51.15 ug/l  
RT: 5.464 min Scan# 744  
Delta R.T. -0.000 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

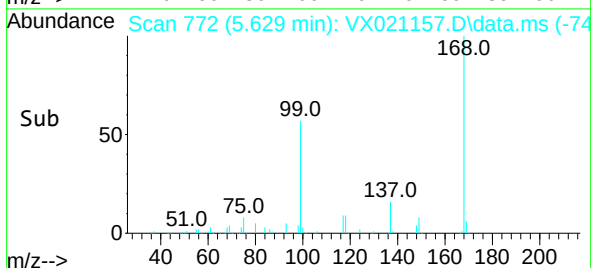
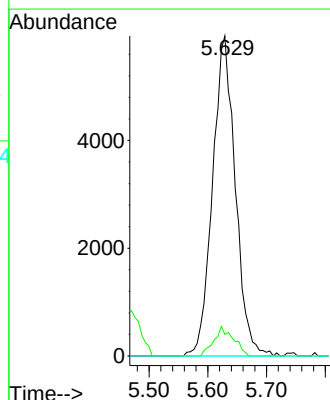
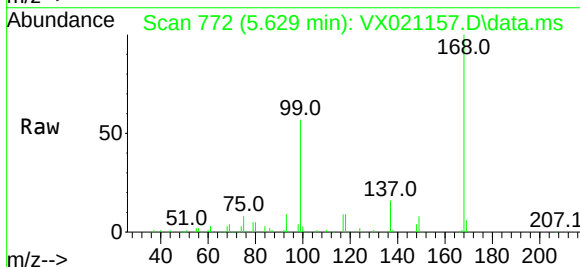
Instrument :  
MSVOA\_X  
ClientSampleId :

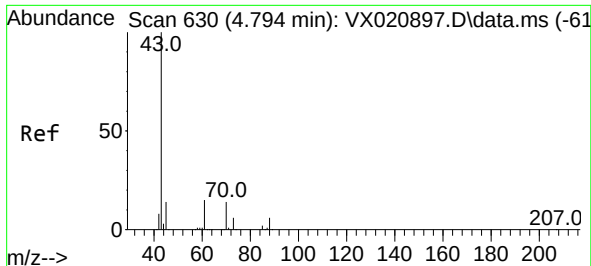
Tgt Ion:113 Resp: 120543  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.9 122.9  
192 20.2 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 4.33 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.141 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 75 Resp: 15960  
Ion Ratio Lower Upper  
75 100  
110 7.9 18.1 54.4#  
77 0.0 25.3 37.9#





#37

Ethyl Acetate

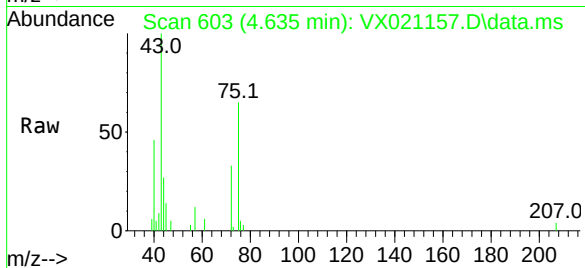
Concen: 1.67 ug/l

RT: 4.635 min Scan# 603

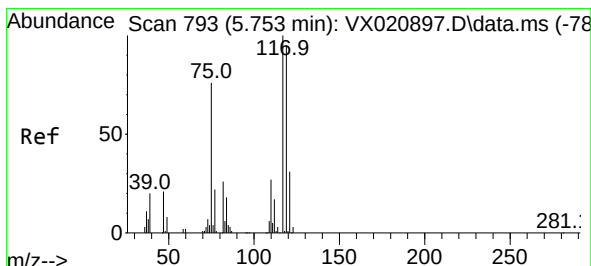
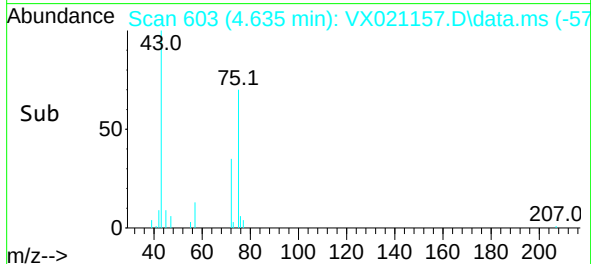
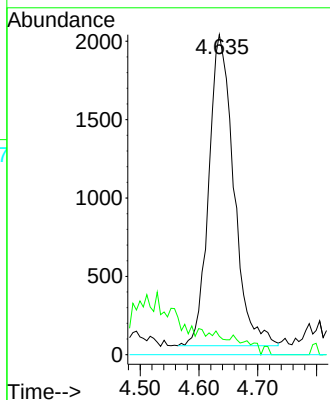
Delta R.T. -0.159 min

Lab File: VX021157.D

Acq: 11 Mar 2021 15:41



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5867  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 12.8  | 19.2# |
| 70       | 0.0   | 10.5  | 15.7# |



#38

Carbon Tetrachloride

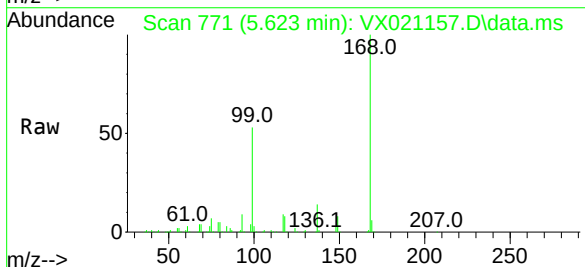
Concen: 5.73 ug/l

RT: 5.623 min Scan# 771

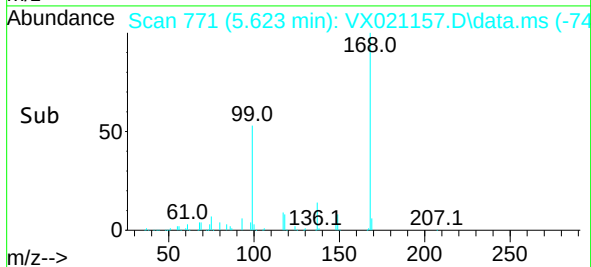
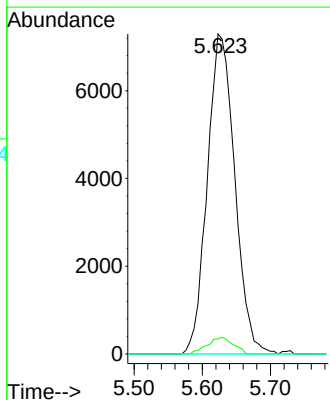
Delta R.T. -0.130 min

Lab File: VX021157.D

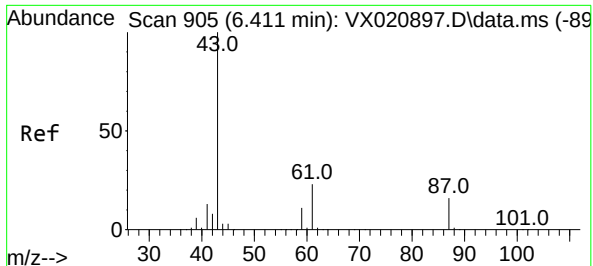
Acq: 11 Mar 2021 15:41



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 20479  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.7   | 76.2  | 114.2# |
| 121      | 0.0   | 24.8  | 37.2#  |



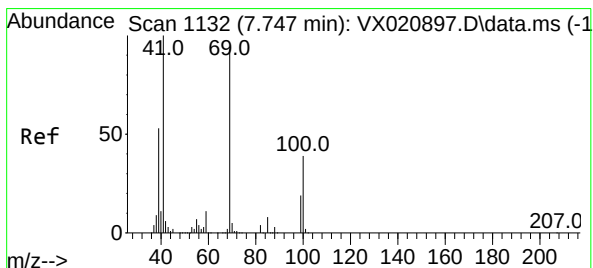
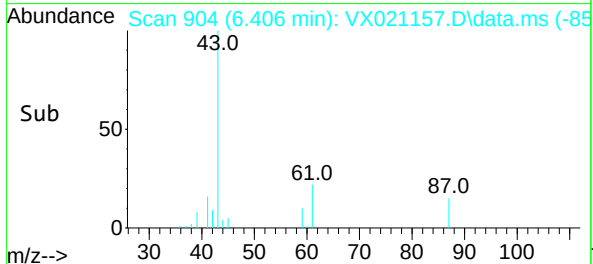
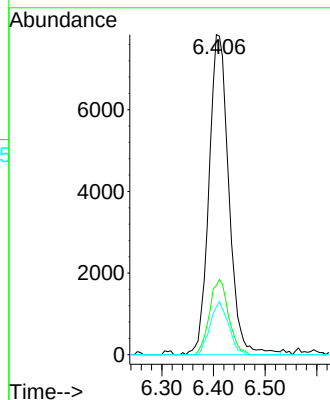
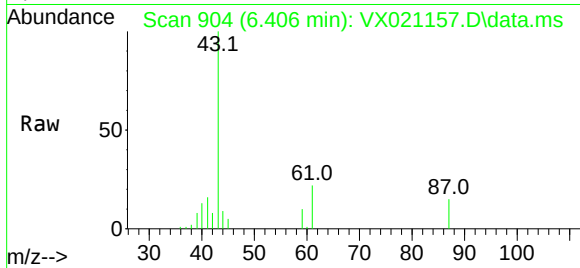
Instrument :  
MSVOA\_X  
ClientSampleId :



#43  
Isopropyl Acetate  
Concen: 3.51 ug/l  
RT: 6.406 min Scan# 904  
Delta R.T. -0.006 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

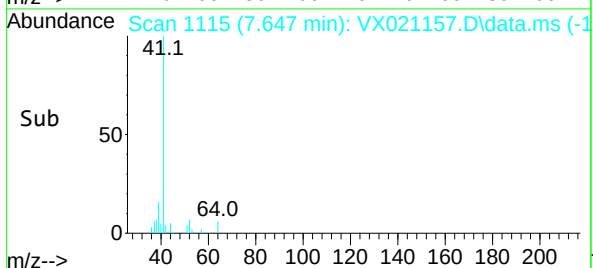
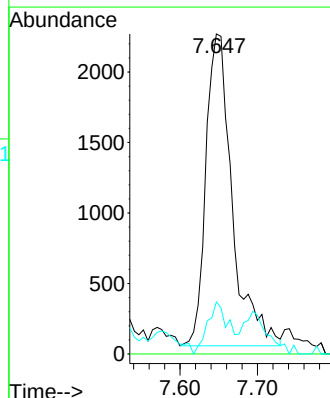
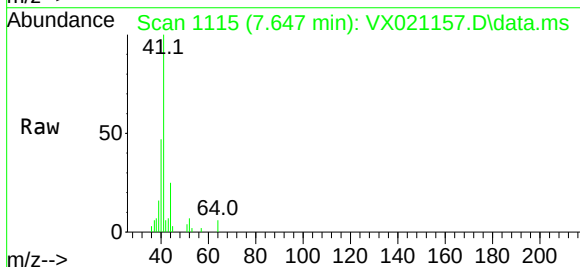
Instrument :  
MSVOA\_X  
ClientSampleId :

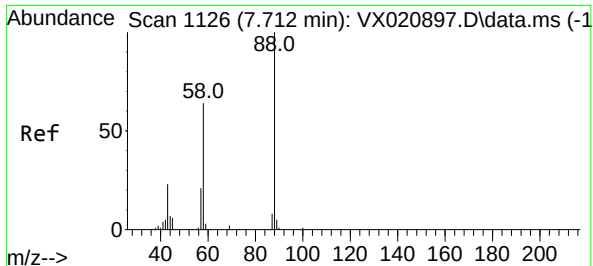
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 20924 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 22.6  | 18.2  | 27.4  |
| 87       | 15.2  | 12.5  | 18.7  |



#48  
Methyl methacrylate  
Concen: 1.75 ug/l  
RT: 7.647 min Scan# 1115  
Delta R.T. -0.100 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 5223   |
| 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: 2.02 ug/l

RT: 7.847 min Scan# 1149

Delta R.T. 0.135 min

Lab File: VX021157.D

Acq: 11 Mar 2021 15:41

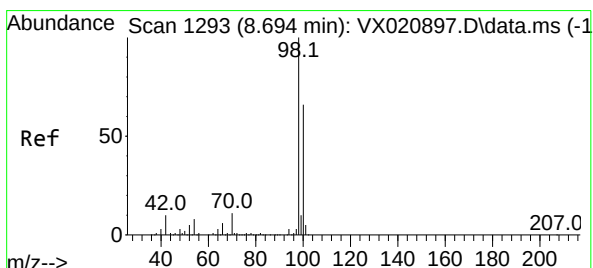
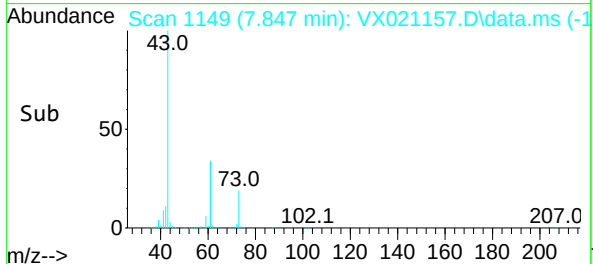
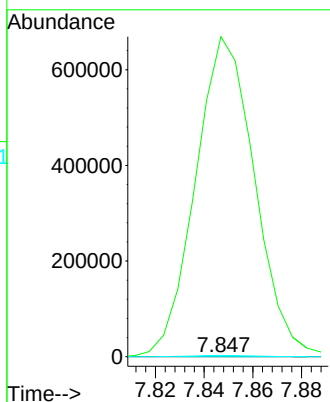
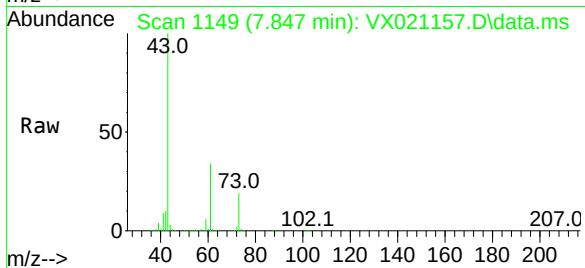
Tgt Ion: 88 Resp: 141

Ion Ratio Lower Upper

88 100

43 814415.6 23.2 34.8#

58 3501.4 55.0 82.4#



#50

Toluene-d8

Concen: 53.64 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. -0.000 min

Lab File: VX021157.D

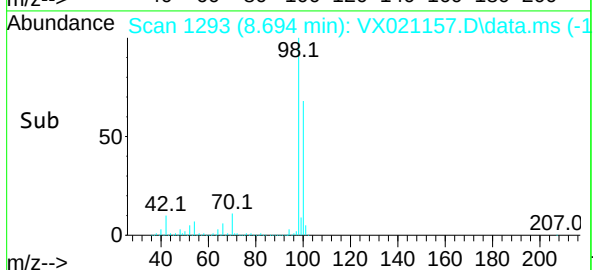
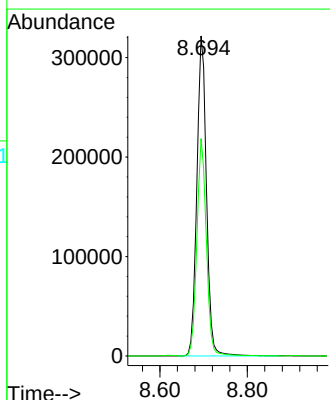
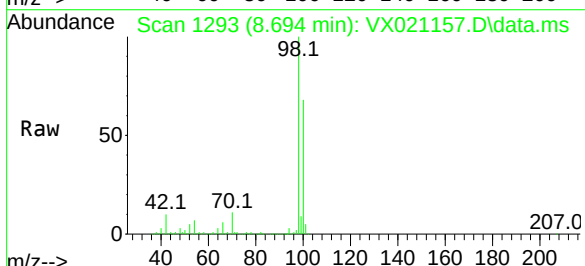
Acq: 11 Mar 2021 15:41

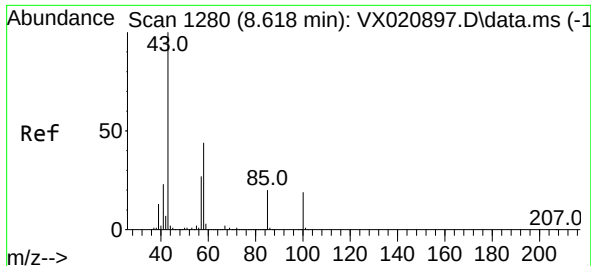
Tgt Ion: 98 Resp: 492846

Ion Ratio Lower Upper

98 100

100 67.1 51.9 77.9

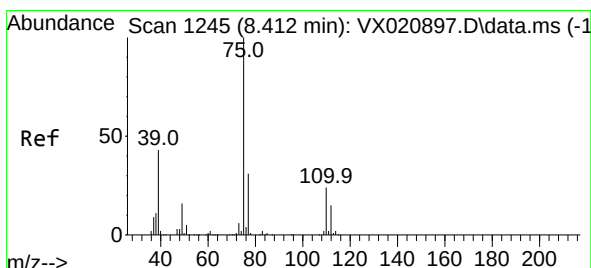
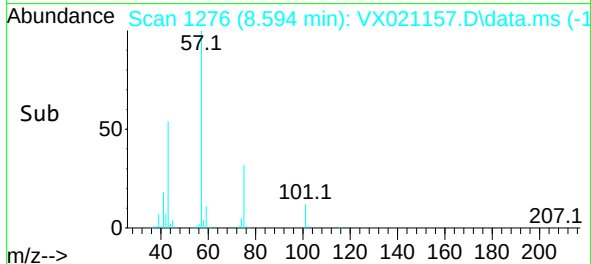
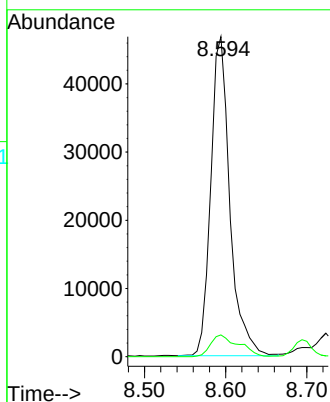
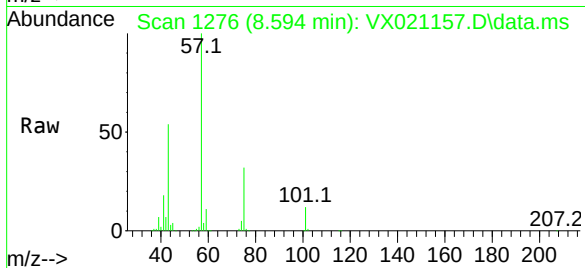




#51  
4-Methyl-2-Pentanone  
Concen: 22.01 ug/l  
RT: 8.594 min Scan# 1276  
Delta R.T. -0.024 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

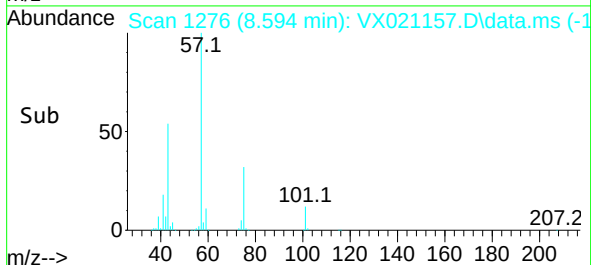
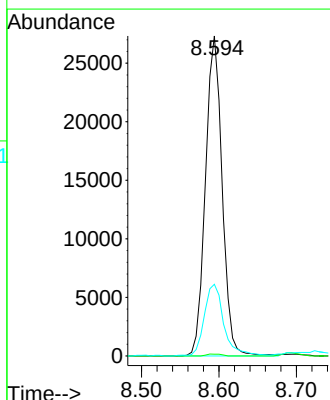
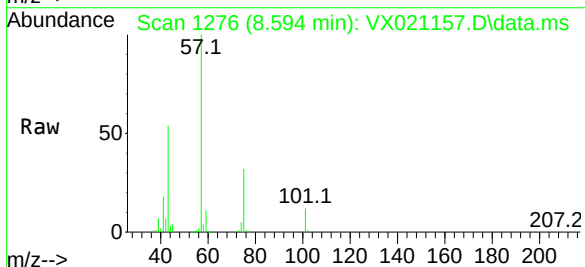
Instrument :  
MSVOA\_X  
ClientSampled :

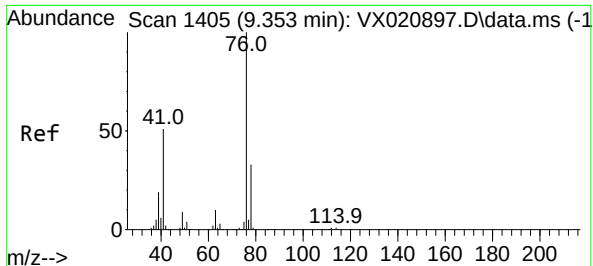
Tgt Ion: 43 Resp: 76439  
Ion Ratio Lower Upper  
43 100  
58 10.1 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 8.59 ug/l  
RT: 8.594 min Scan# 1276  
Delta R.T. 0.182 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 75 Resp: 40970  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.7 38.5#  
39 22.2 35.1 52.7#

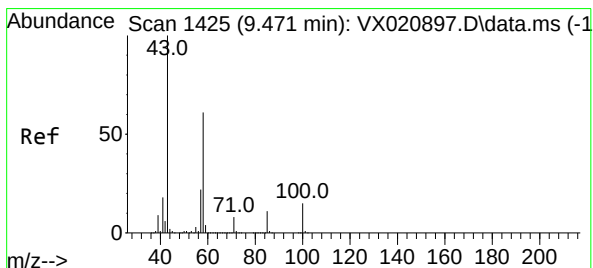
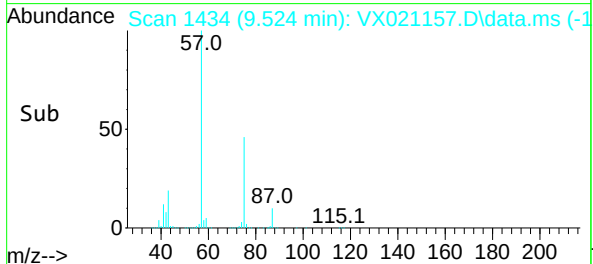
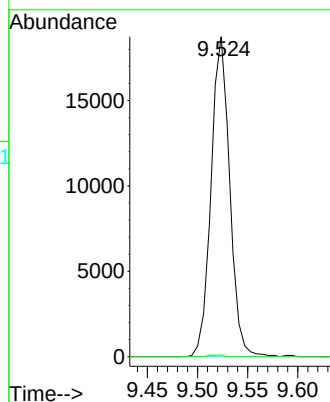
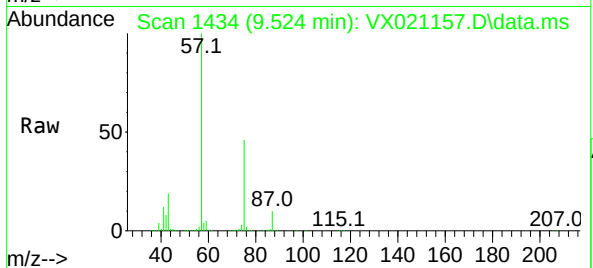




#57  
1,3-Dichloropropane  
Concen: 5.20 ug/l  
RT: 9.524 min Scan# 1434  
Delta R.T. 0.171 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

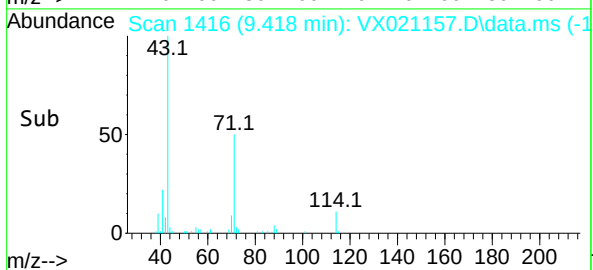
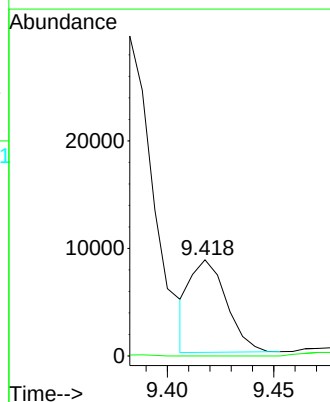
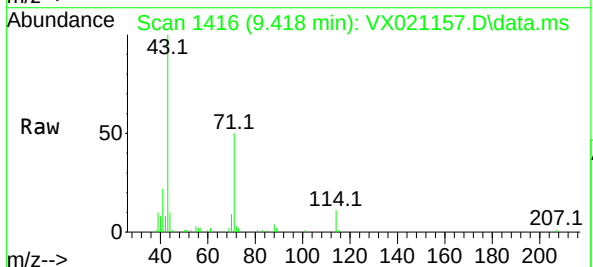
Instrument :  
MSVOA\_X  
ClientSampled :

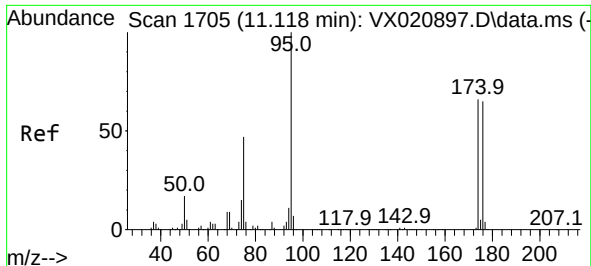
Tgt Ion: 76 Resp: 24259  
Ion Ratio Lower Upper  
76 100  
78 0.4 26.2 39.2#



#59  
2-Hexanone  
Concen: 3.90 ug/l  
RT: 9.418 min Scan# 1416  
Delta R.T. -0.053 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 43 Resp: 10171  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.9 92.8#

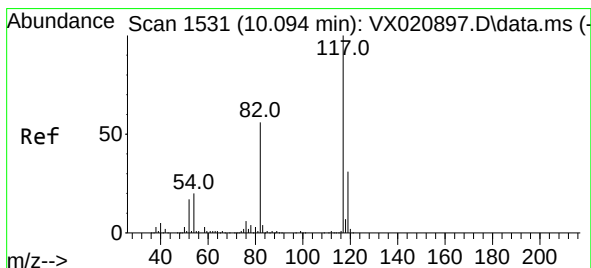
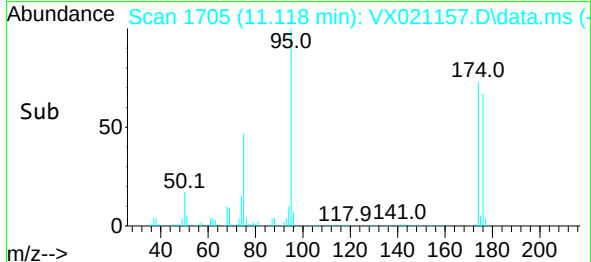
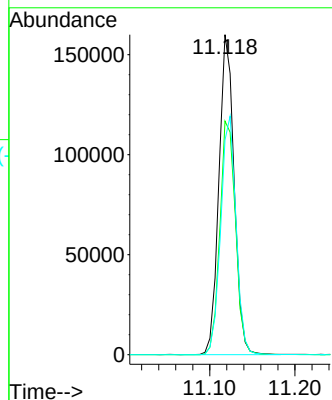
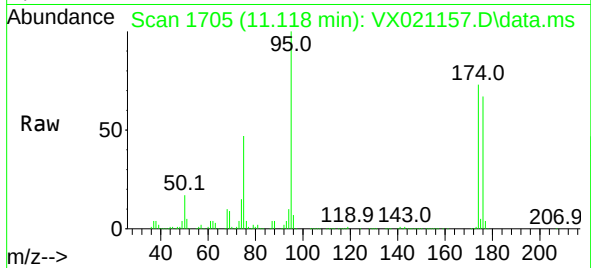




#62  
4-Bromofluorobenzene  
Concen: 58.50 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

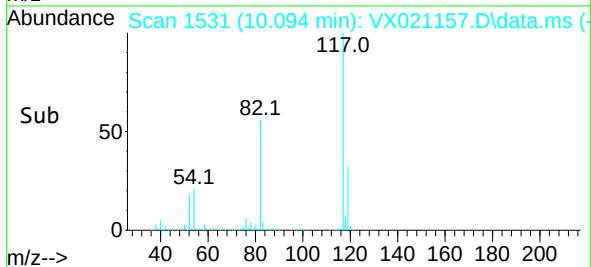
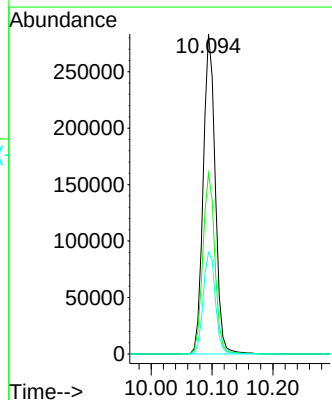
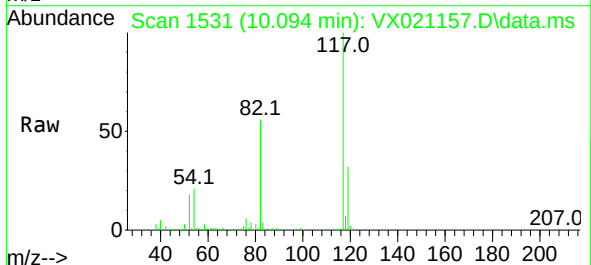
Instrument :  
MSVOA\_X  
ClientSampleId :

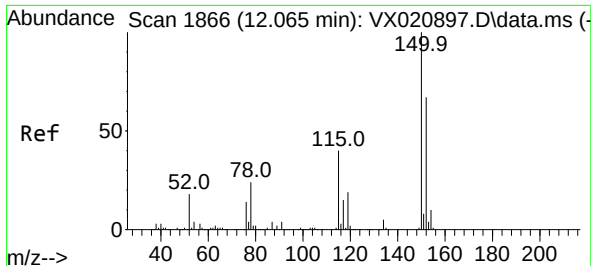
Tgt Ion: 95 Resp: 198740  
Ion Ratio Lower Upper  
95 100  
174 75.2 0.0 154.6  
176 75.0 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. -0.000 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 117 Resp: 386999  
Ion Ratio Lower Upper  
117 100  
82 56.5 47.4 71.2  
119 31.7 26.6 39.8

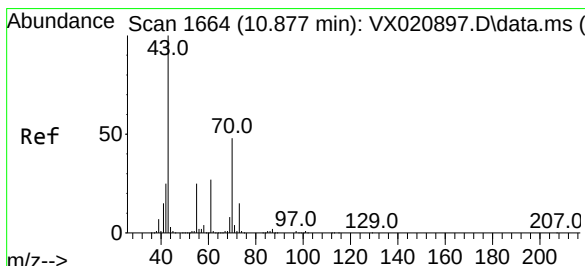
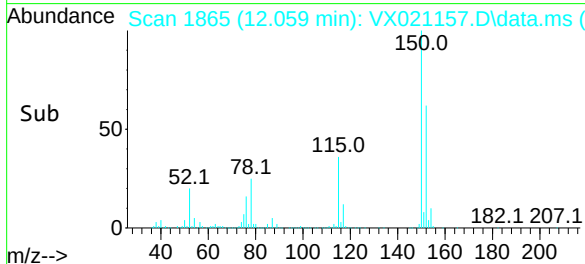
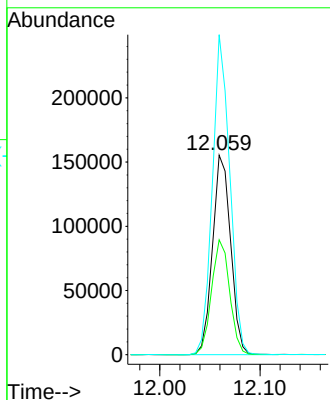
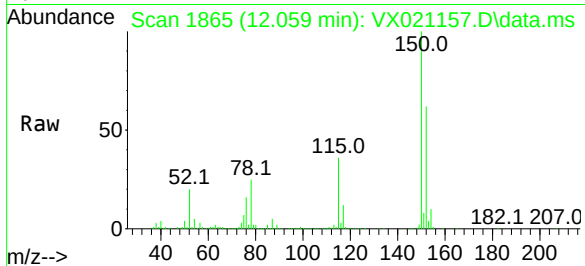




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.059 min Scan# 1865  
Delta R.T. -0.006 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

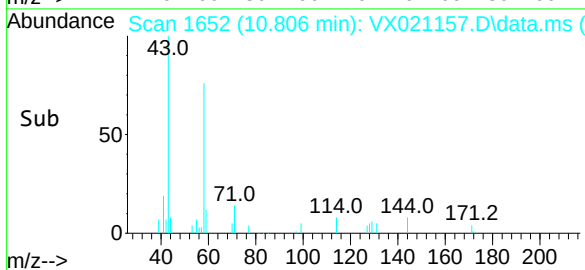
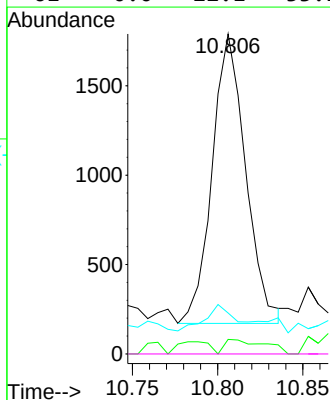
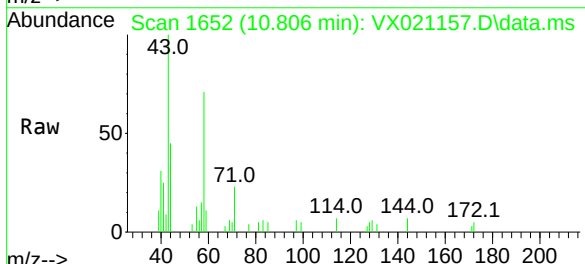
Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:152 Resp: 194588  
Ion Ratio Lower Upper  
152 100  
115 57.7 41.1 123.3  
150 154.2 0.0 349.0

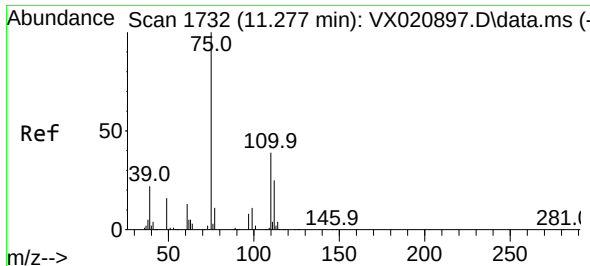


#74  
N-ethyl acetate  
Concen: 0.36 ug/l  
RT: 10.806 min Scan# 1652  
Delta R.T. -0.071 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 43 Resp: 2214  
Ion Ratio Lower Upper  
43 100  
70 6.0 39.0 58.6#  
55 7.9 21.5 32.3#  
61 0.0 22.1 33.1#



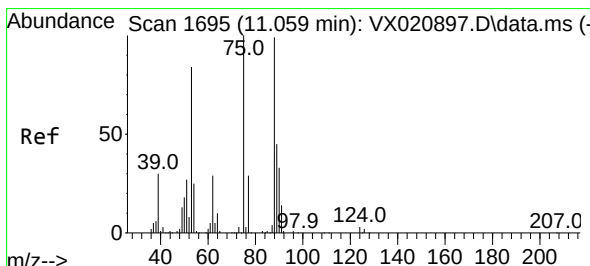
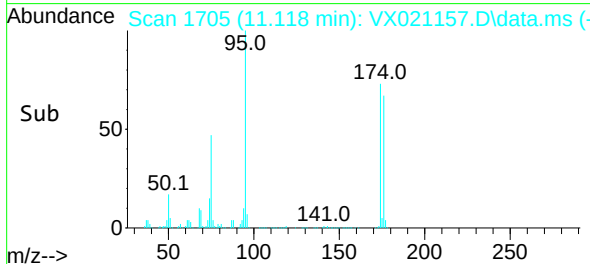
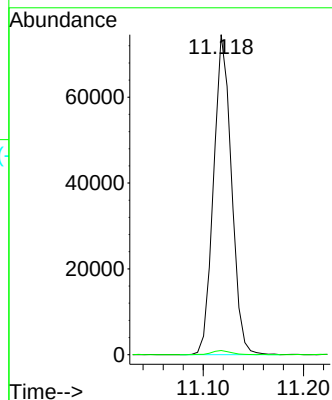
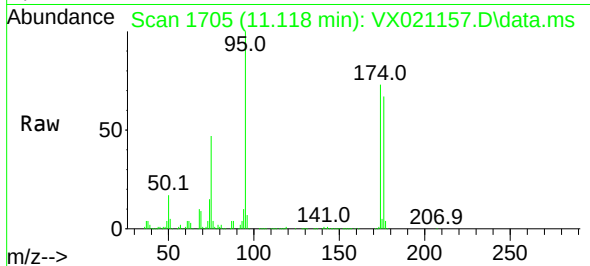




#76  
1,2,3-Trichloropropane  
Concen: 22.06 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.159 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

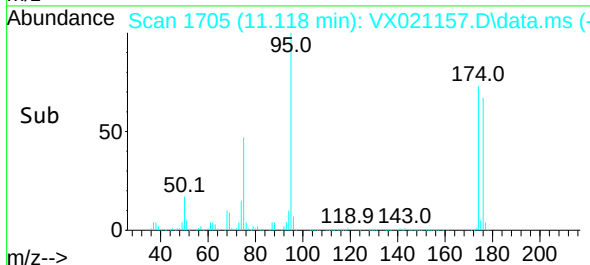
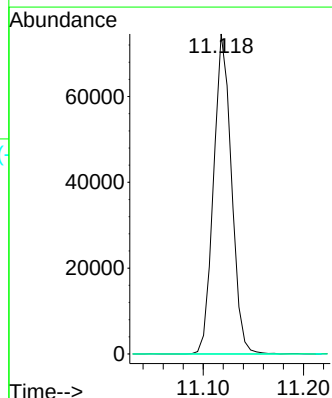
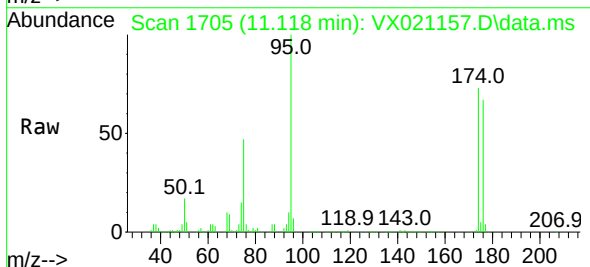
Instrument :  
MSVOA\_X  
ClientSampled :

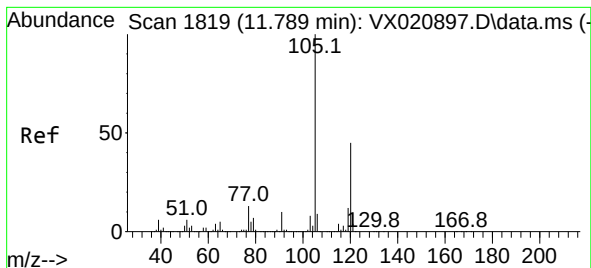
Tgt Ion: 75 Resp: 92359  
Ion Ratio Lower Upper  
75 100  
77 1.4 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 48.85 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion: 75 Resp: 92359  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

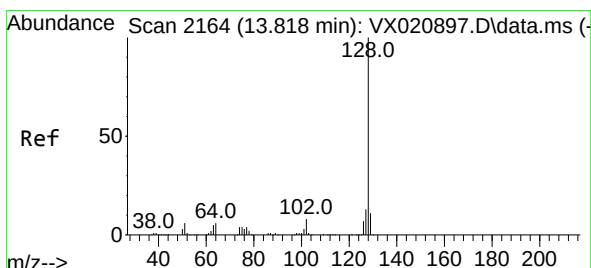
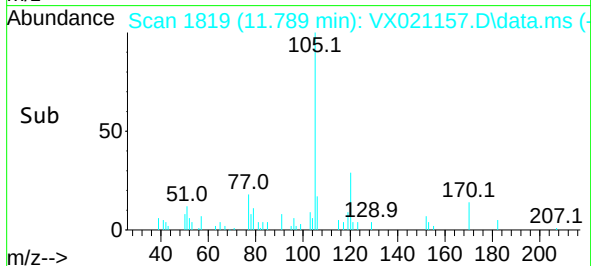
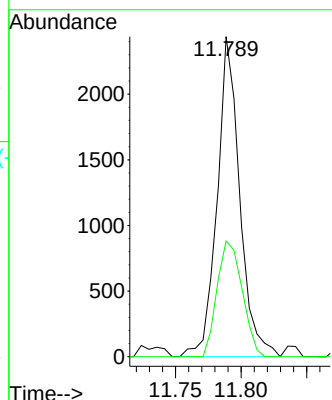
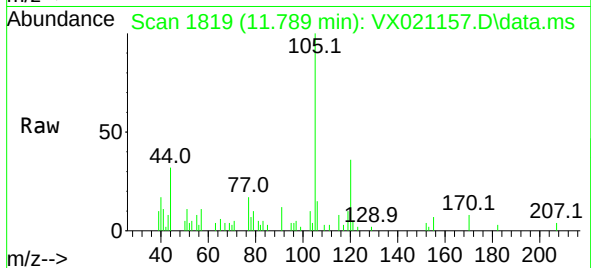




#84  
1,2,4-Trimethylbenzene  
Concen: 0.22 ug/l  
RT: 11.789 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:105 Resp: 2913  
Ion Ratio Lower Upper  
105 100  
120 40.1 22.4 67.3



#95  
Naphthalene  
Concen: 0.26 ug/l  
RT: 13.818 min Scan# 2164  
Delta R.T. -0.000 min  
Lab File: VX021157.D  
Acq: 11 Mar 2021 15:41

Tgt Ion:128 Resp: 3733  
Ion Ratio Lower Upper  
128 100  
127 17.5 10.3 15.5#  
129 24.7 8.8 13.2#

