

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012721\  
 Data File : VX020773.D  
 Acq On : 27 Jan 2021 16:27  
 Operator : JC/SP  
 Sample : M1189-20 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

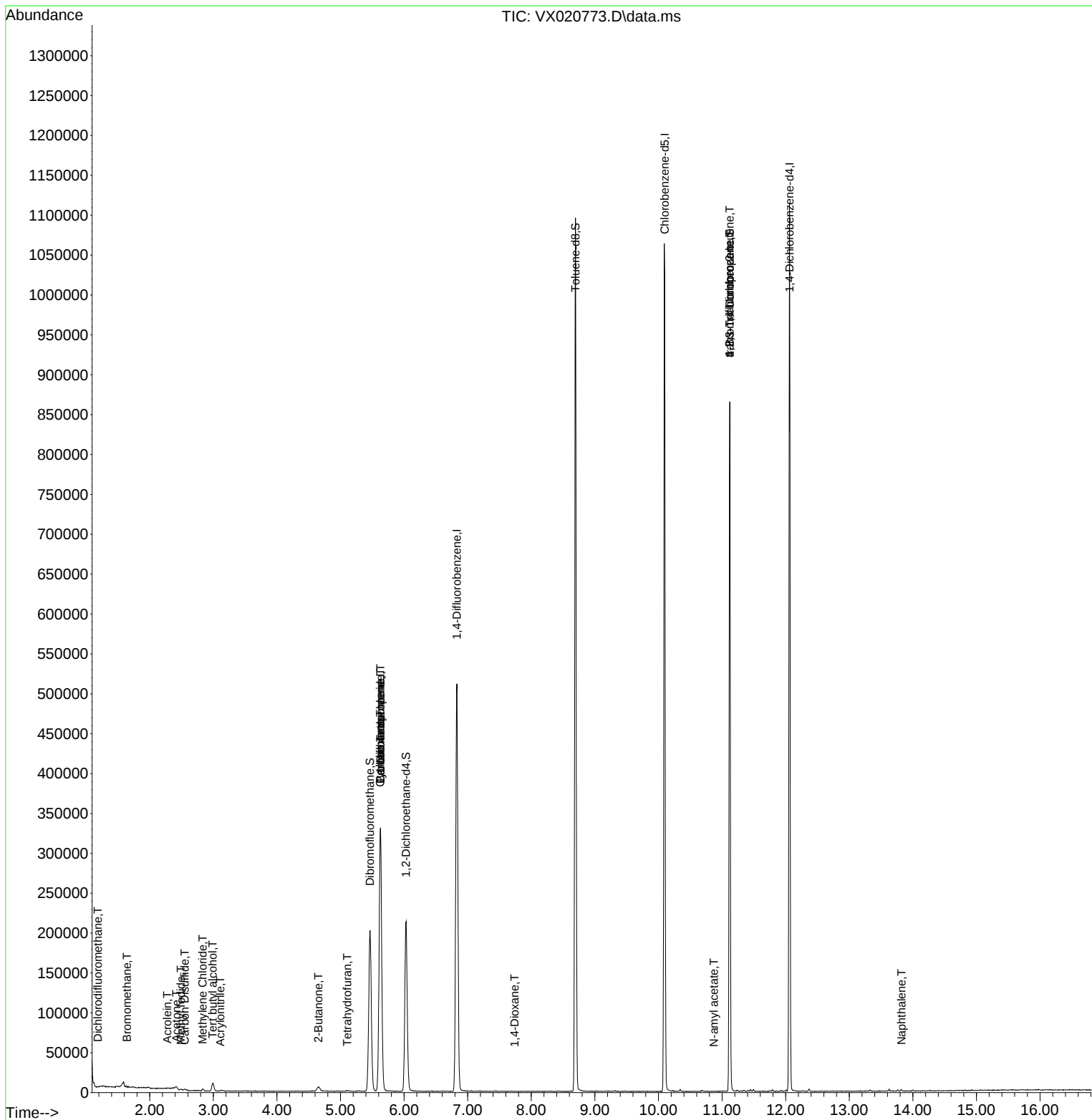
Instrument :  
 MSVOA\_X  
 ClientSampleId :

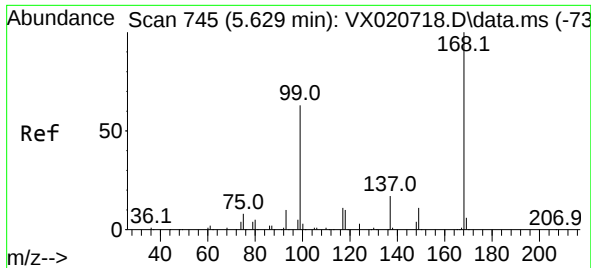
Quant Time: Jan 28 00:44:47 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012521W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 25 13:38:15 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 313820     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.830          | 114  | 525548     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.098         | 117  | 506656     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061         | 152  | 224827     | 50.00  | ug/l   | 0.00     |
|                               |                |      |            |        |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031          | 65   | 204750     | 47.83  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 95.66% |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 175211     | 48.67  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 97.34% |        |          |
| 50) Toluene-d8                | 8.695          | 98   | 644045     | 48.80  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 97.60% |        |          |
| 62) 4-Bromofluorobenzene      | 11.122         | 95   | 236270     | 46.10  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 92.20% |        |          |
|                               |                |      |            |        |        |          |
| Target Compounds              |                |      |            |        |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.185          | 85   | 149        | 1.23   | ug/l # | 42       |
| 5) Bromomethane               | 1.642          | 94   | 793        | 0.38   | ug/l   | 92       |
| 10) Methyl Iodide             | 2.489          | 142  | 1602       | 0.37   | ug/l # | 91       |
| 11) Tert butyl alcohol        | 2.989          | 59   | 5986       | 7.49   | ug/l # | 74       |
| 13) Acrolein                  | 2.276          | 56   | 128        | 0.21   | ug/l # | 1        |
| 15) Acrylonitrile             | 3.111          | 53   | 416        | 0.21   | ug/l # | 91       |
| 16) Acetone                   | 2.416          | 43   | 2287       | 1.41   | ug/l # | 79       |
| 17) Carbon Disulfide          | 2.550          | 76   | 2024       | 1.11   | ug/l # | 85       |
| 20) Methylene Chloride        | 2.831          | 84   | 1269       | 0.31   | ug/l   | 95       |
| 25) 2-Butanone                | 4.654          | 43   | 705        | 0.28   | ug/l # | 45       |
| 29) Tetrahydrofuran           | 5.105          | 42   | 380        | 0.23   | ug/l # | 73       |
| 31) Cyclohexane               | 5.623          | 56   | 6032       | 1.05   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.629          | 75   | 24037      | 4.56   | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 32248      | 5.81   | ug/l # | 17       |
| 49) 1,4-Dioxane               | 7.738          | 88   | 32         | 0.34   | ug/l # | 24       |
| 74) N-amyl acetate            | 10.872         | 43   | 40         | 2.02   | ug/l # | 38       |
| 76) 1,2,3-Trichloropropane    | 11.122         | 75   | 114056     | 21.87  | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.122         | 75   | 114056     | 61.29  | ug/l # | 12       |
| 95) Naphthalene               | 13.823         | 128  | 1669       | 2.96   | ug/l # | 92       |
| -----                         |                |      |            |        |        |          |

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

Quant Time: Jan 28 00:44:47 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012521W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 25 13:38:15 2021  
Response via : Initial Calibration

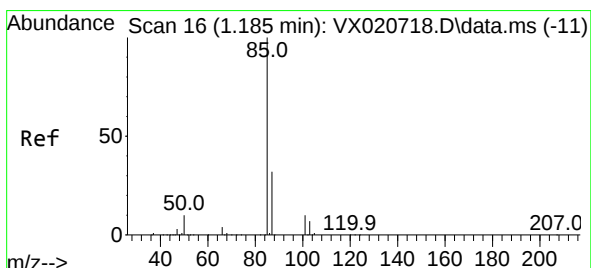
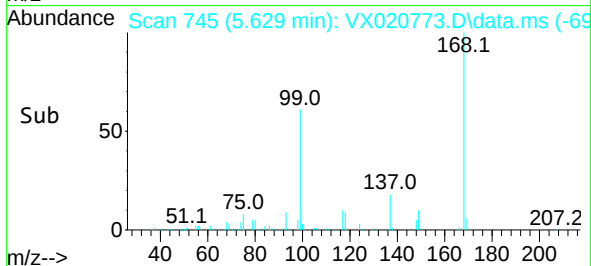
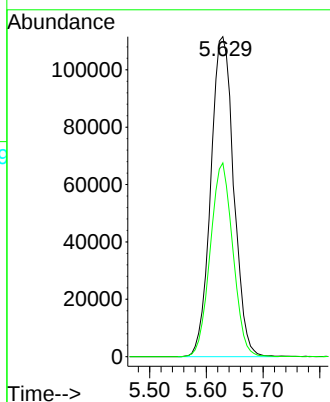
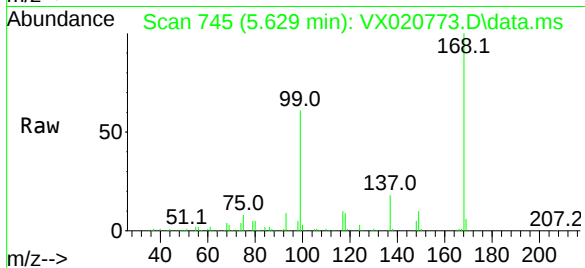




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

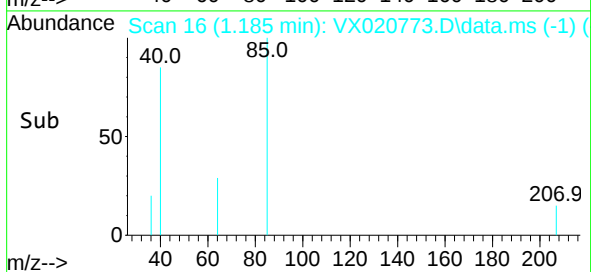
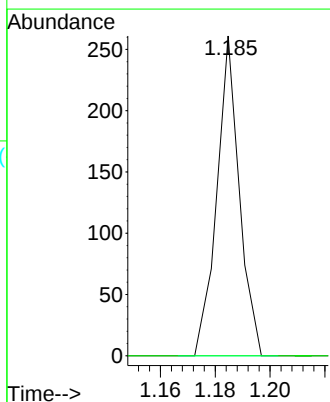
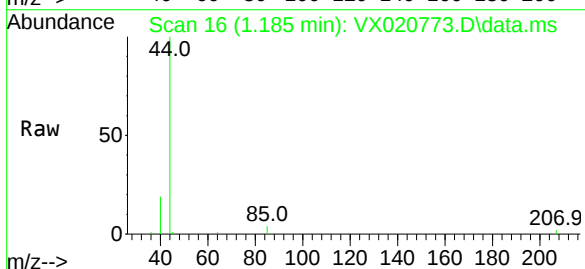
Instrument :  
MSVOA\_X  
ClientSampleId :

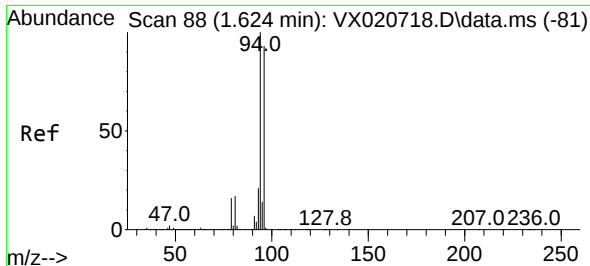
Tgt Ion:168 Resp: 313820  
Ion Ratio Lower Upper  
168 100  
99 60.5 45.8 68.6



#2  
Dichlorodifluoromethane  
Concen: 1.23 ug/l  
RT: 1.185 min Scan# 16  
Delta R.T. -0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 85 Resp: 149  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.4 49.2#

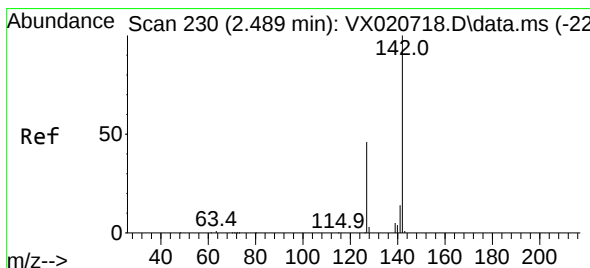
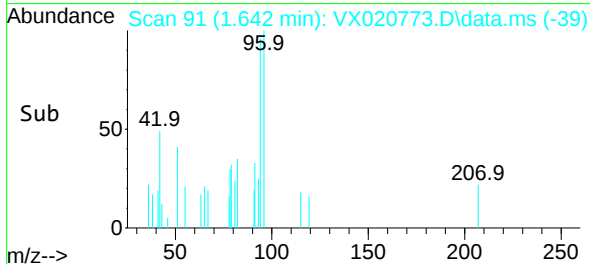
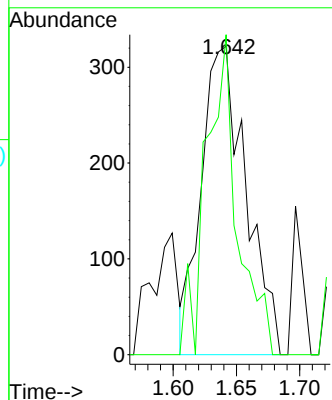
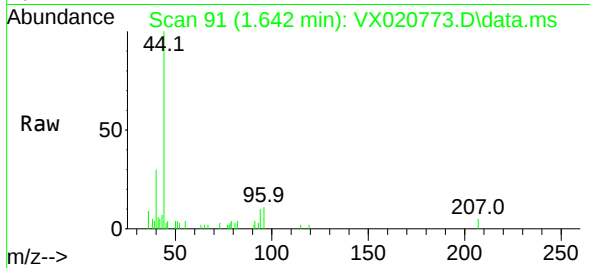




#5  
Bromomethane  
Concen: 0.38 ug/l  
RT: 1.642 min Scan# 91  
Delta R.T. 0.018 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

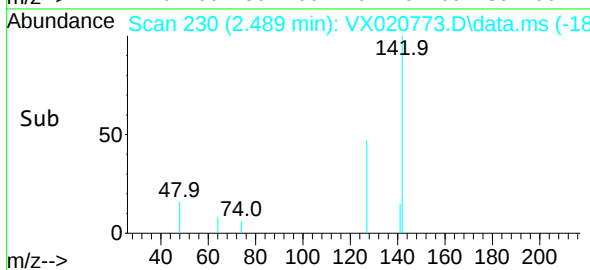
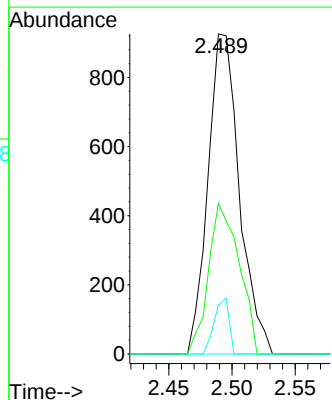
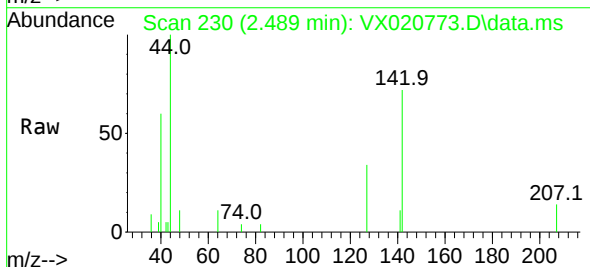
Instrument :  
MSVOA\_X  
ClientSampled :

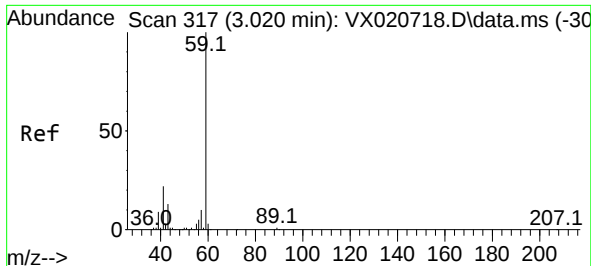
Tgt Ion: 94 Resp: 793  
Ion Ratio Lower Upper  
94 100  
96 103.7 76.4 114.6



#10  
Methyl Iodide  
Concen: 0.37 ug/l  
RT: 2.489 min Scan# 230  
Delta R.T. 0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 142 Resp: 1602  
Ion Ratio Lower Upper  
142 100  
127 45.8 33.3 49.9  
141 8.1 11.4 17.0#



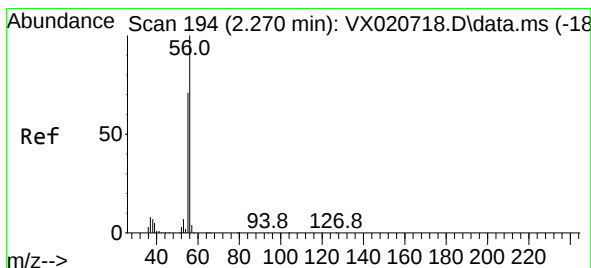
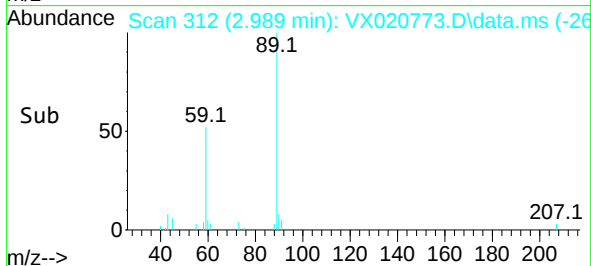
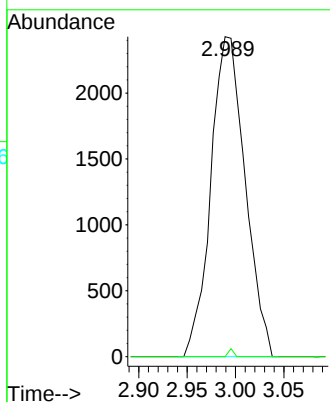
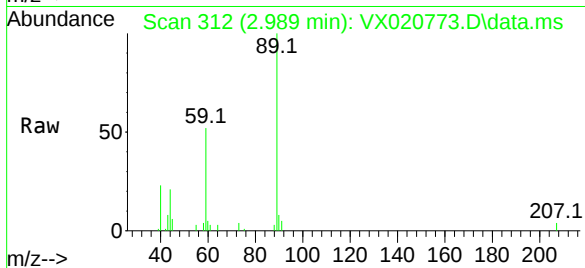


#11

Tert butyl alcohol  
Concen: 7.49 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.031 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Instrument :  
MSVOA\_X  
ClientSampled :

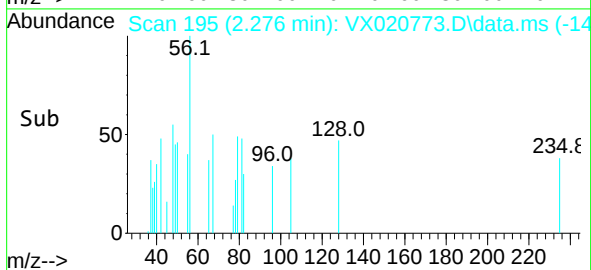
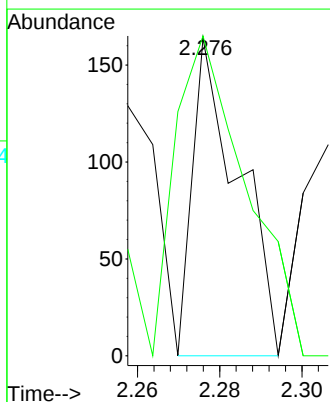
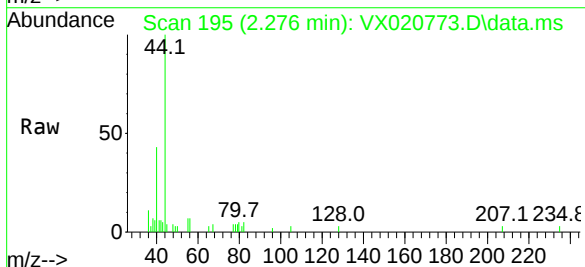
Tgt Ion: 59 Resp: 5986  
Ion Ratio Lower Upper  
59 100  
57 0.4 7.8 11.8#

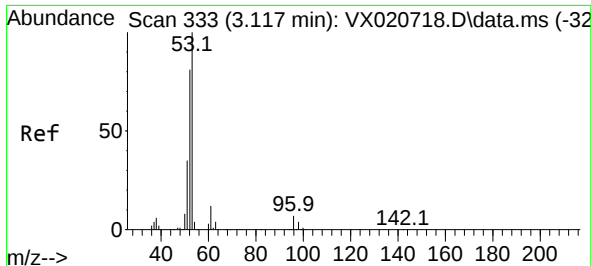


#13

Acrolein  
Concen: 0.21 ug/l  
RT: 2.276 min Scan# 195  
Delta R.T. 0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 56 Resp: 128  
Ion Ratio Lower Upper  
56 100  
55 171.1 56.4 84.6#

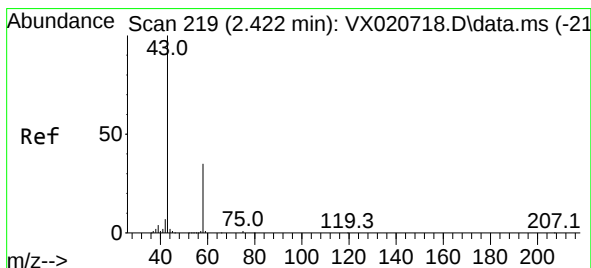
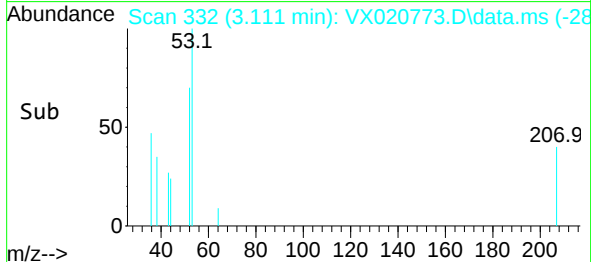
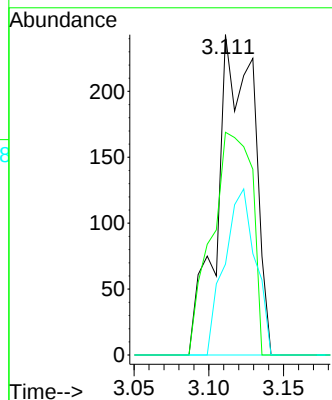
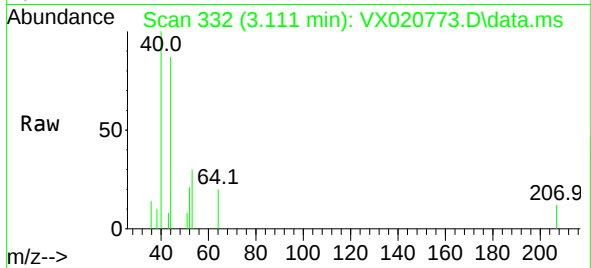




#15  
Acrylonitrile  
Concen: 0.21 ug/l  
RT: 3.111 min Scan# 332  
Delta R.T. -0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

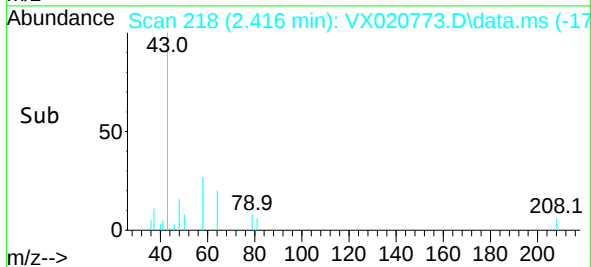
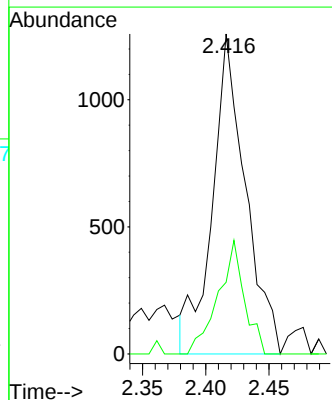
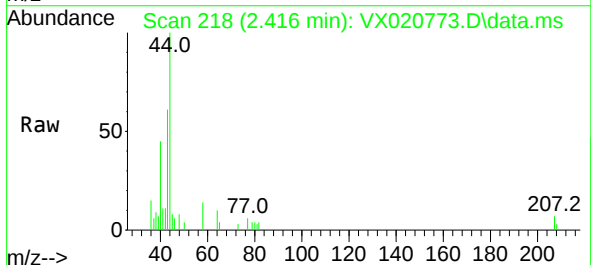
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ClientSampled :

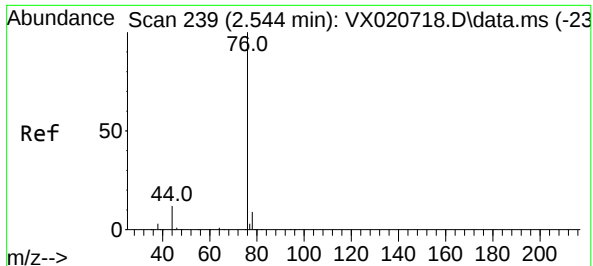
Tgt Ion: 53 Resp: 416  
Ion Ratio Lower Upper  
53 100  
52 76.2 65.3 97.9  
51 43.8 28.2 42.2#



#16  
Acetone  
Concen: 1.41 ug/l  
RT: 2.416 min Scan# 218  
Delta R.T. -0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 43 Resp: 2287  
Ion Ratio Lower Upper  
43 100  
58 22.4 27.8 41.8#

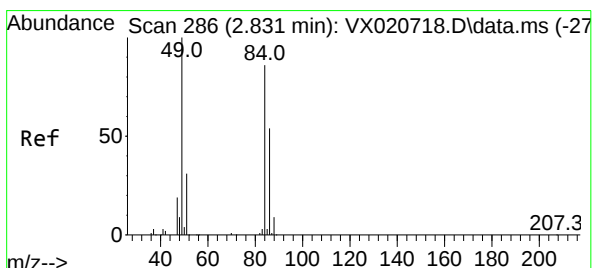
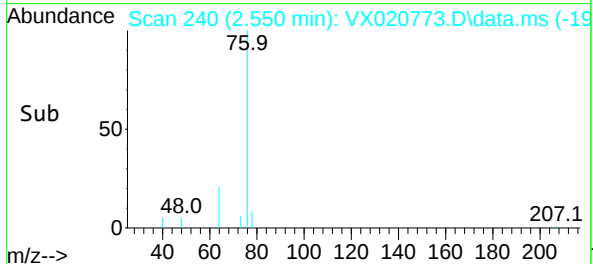
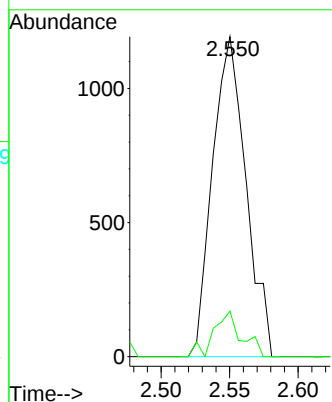
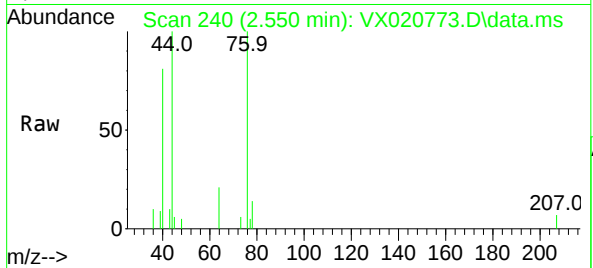




#17  
Carbon Disulfide  
Concen: 1.11 ug/l  
RT: 2.550 min Scan# 240  
Delta R.T. 0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

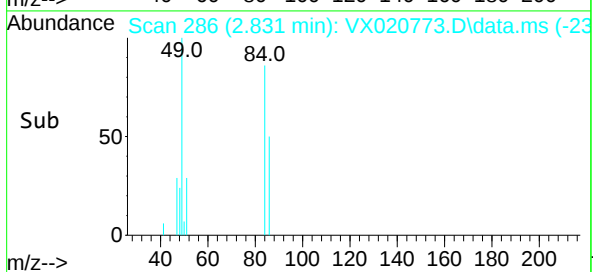
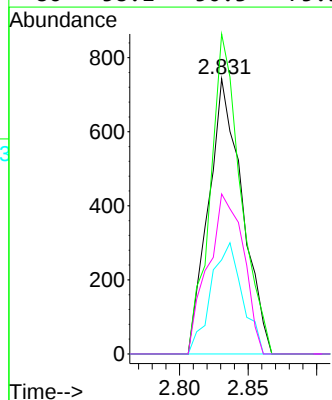
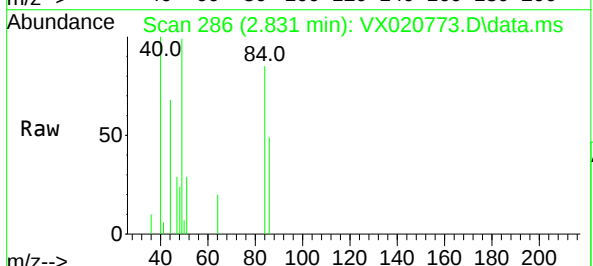
Instrument :  
MSVOA\_X  
ClientSampled :

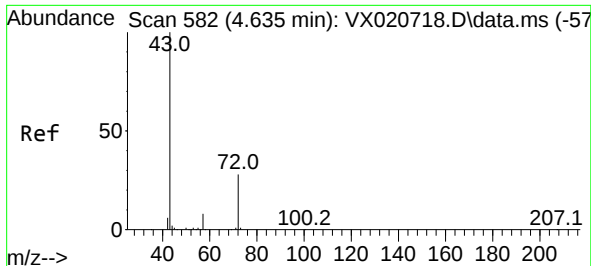
Tgt Ion: 76 Resp: 2024  
Ion Ratio Lower Upper  
76 100  
78 14.2 7.2 10.8#



#20  
Methylene Chloride  
Concen: 0.31 ug/l  
RT: 2.831 min Scan# 286  
Delta R.T. -0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 84 Resp: 1269  
Ion Ratio Lower Upper  
84 100  
49 116.3 88.6 132.8  
51 34.2 27.0 40.6  
86 58.1 50.3 75.5

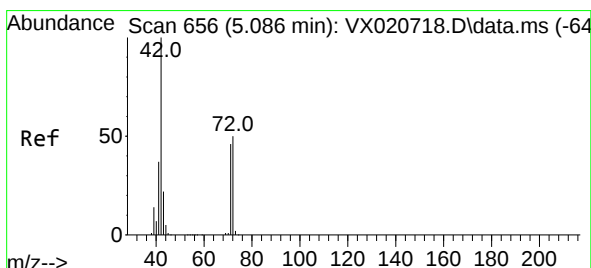
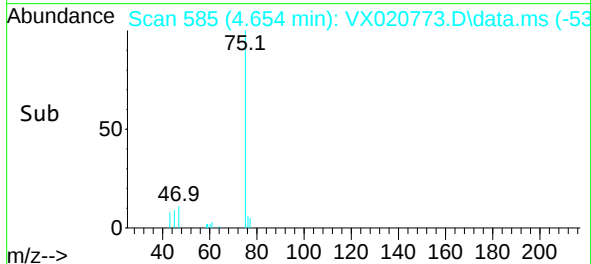
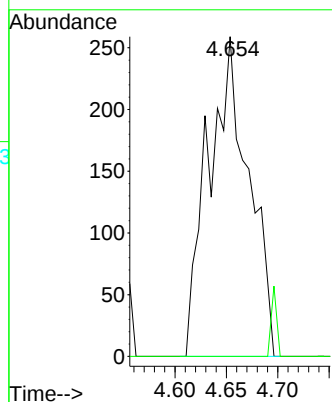
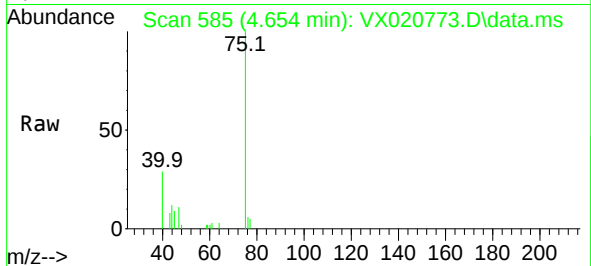




#25  
2-Butanone  
Concen: 0.28 ug/l  
RT: 4.654 min Scan# 585  
Delta R.T. 0.019 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

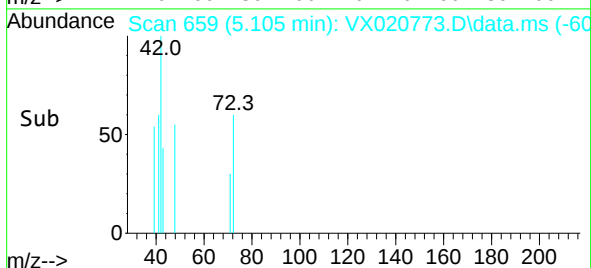
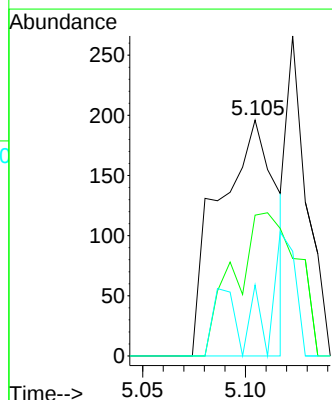
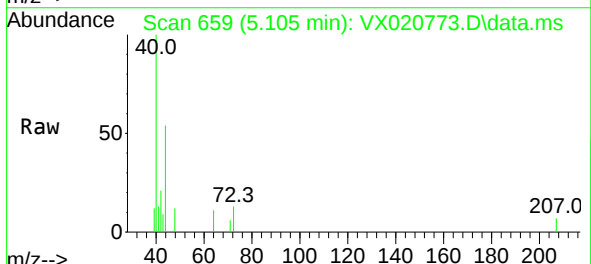
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MSVOA\_X  
ClientSampled :

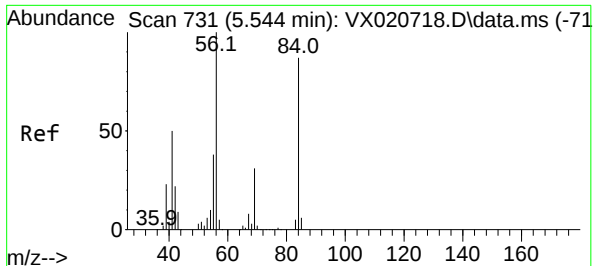
Tgt Ion: 43 Resp: 705  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#



#29  
Tetrahydrofuran  
Concen: 0.23 ug/l  
RT: 5.105 min Scan# 659  
Delta R.T. 0.019 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

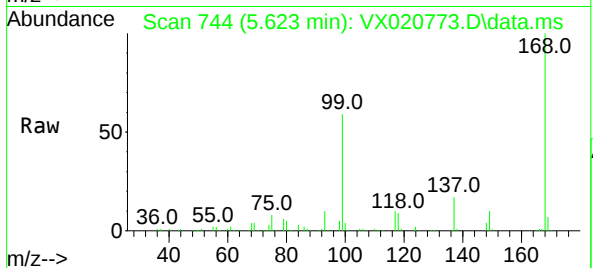
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72 66.1 41.7 62.5#  
71 23.9 38.4 57.6#



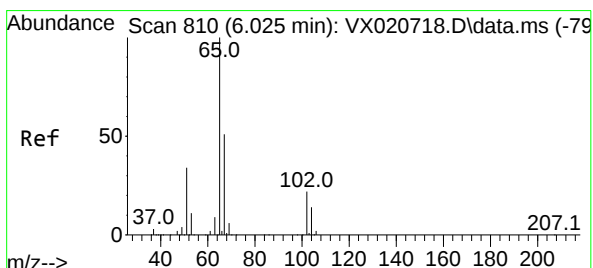
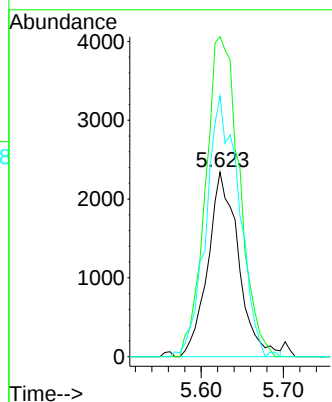
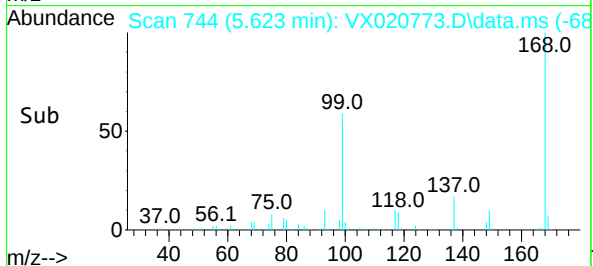


#31  
Cyclohexane  
Concen: 1.05 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. 0.079 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

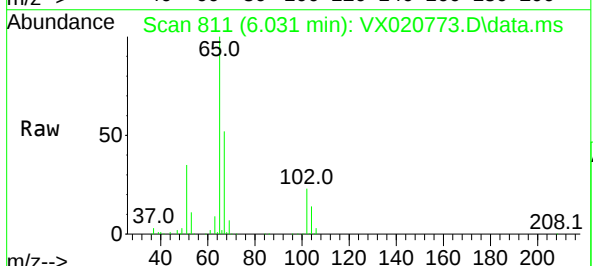
Instrument :  
MSVOA\_X  
ClientSampleId :



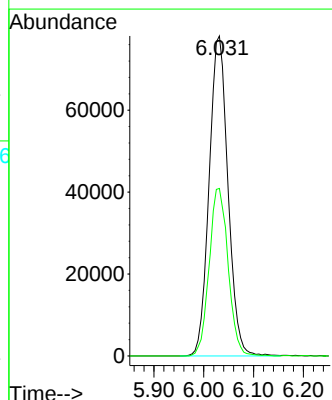
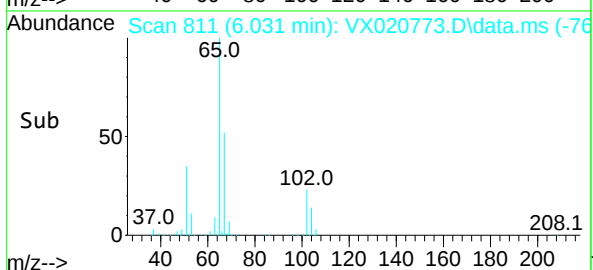
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Ion Ratio Lower Upper  
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69 173.5 25.3 37.9#  
84 141.3 71.4 107.0#

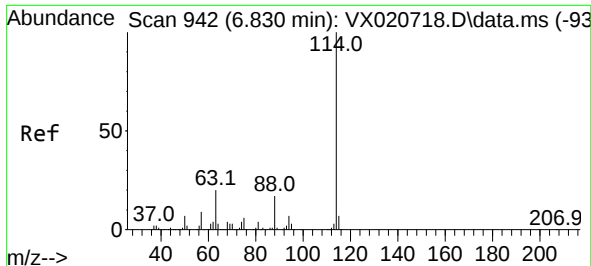


#33  
1,2-Dichloroethane-d4  
Concen: 47.83 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27



Tgt Ion: 65 Resp: 204750  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 105.4

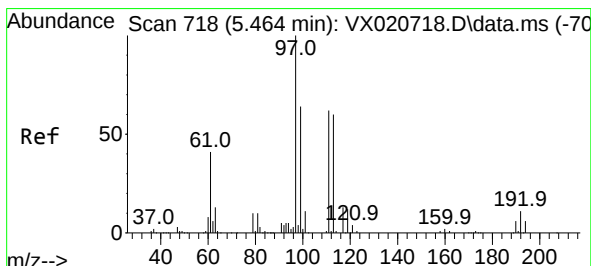
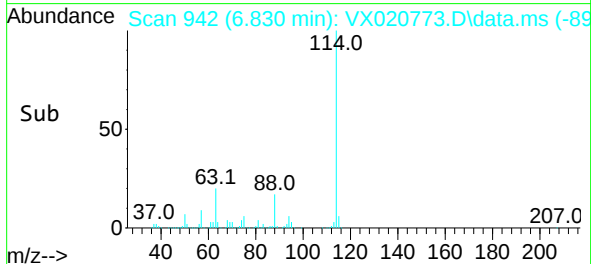
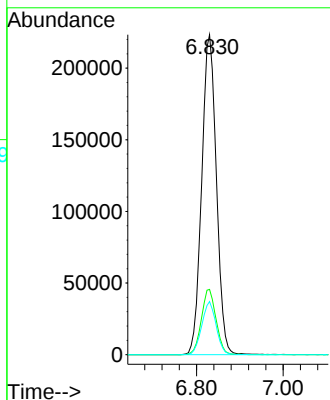
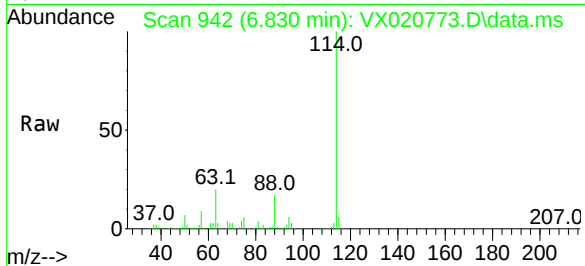




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. -0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

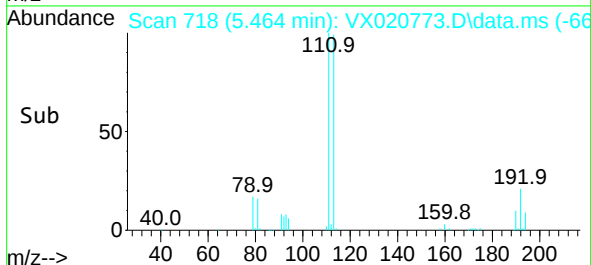
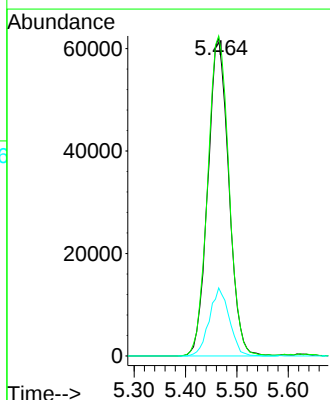
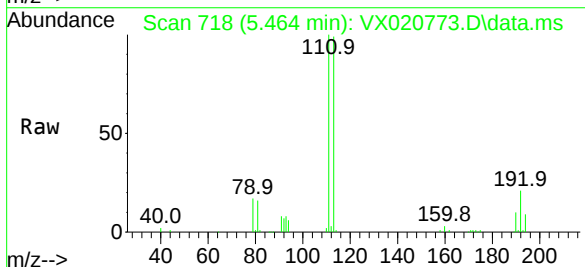
Instrument :  
MSVOA\_X  
ClientSampleId :

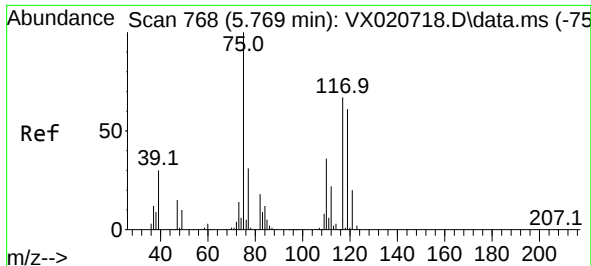
Tgt Ion:114 Resp: 525548  
Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 40.8  
88 16.6 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 48.67 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

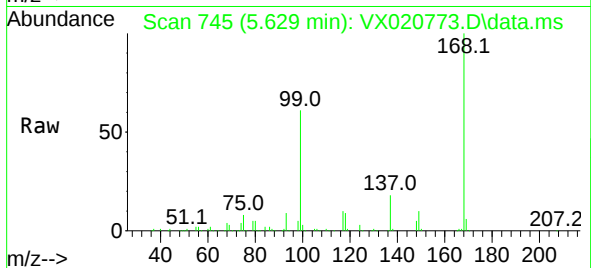
Tgt Ion:113 Resp: 175211  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.9 122.9  
192 20.5 16.7 25.1



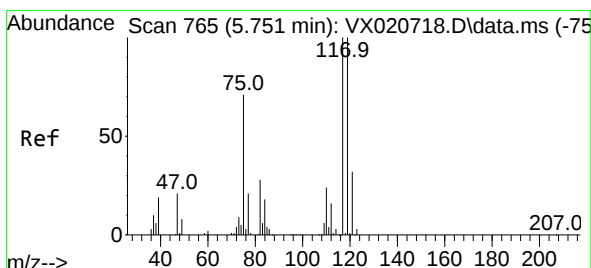
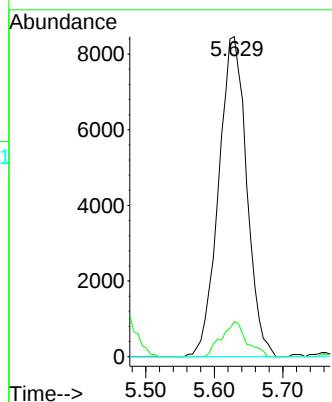
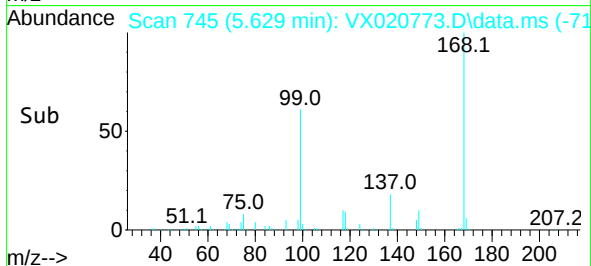


#36  
1,1-Dichloropropene  
Concen: 4.56 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.140 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

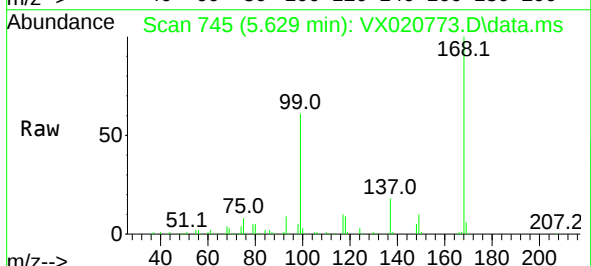
Instrument :  
MSVOA\_X  
ClientSampled :



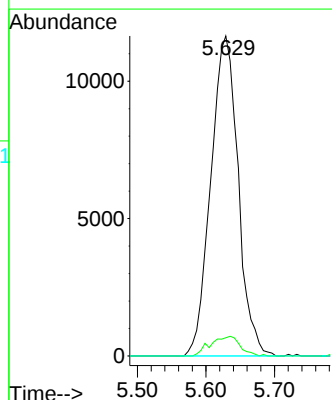
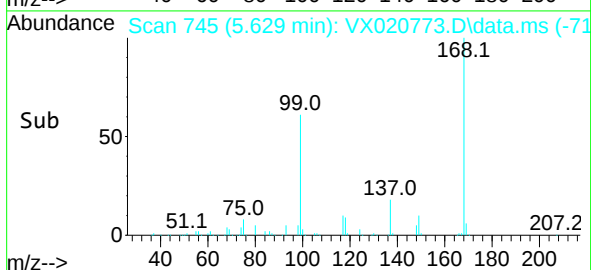
Tgt Ion: 75 Resp: 24037  
Ion Ratio Lower Upper  
75 100  
110 9.8 18.1 54.4#  
77 0.0 25.3 37.9#

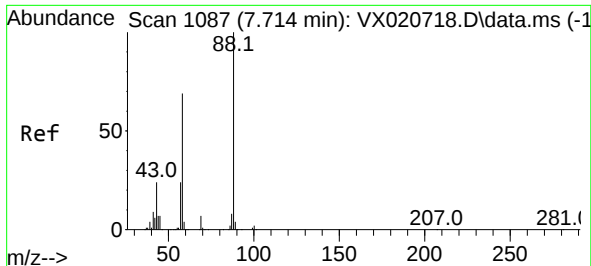


#38  
Carbon Tetrachloride  
Concen: 5.81 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.122 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27



Tgt Ion: 117 Resp: 32248  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.2 114.2#  
121 0.0 24.8 37.2#

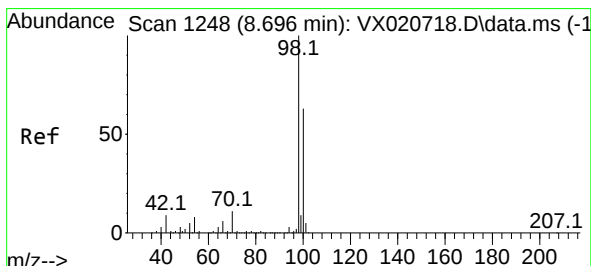
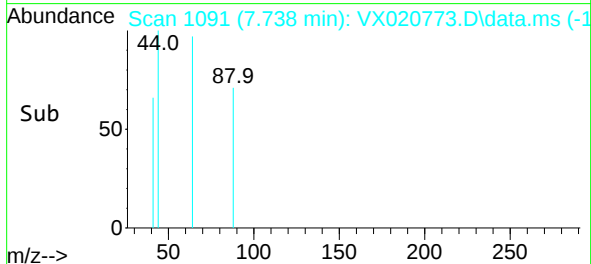
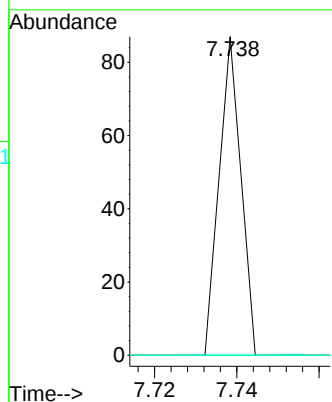
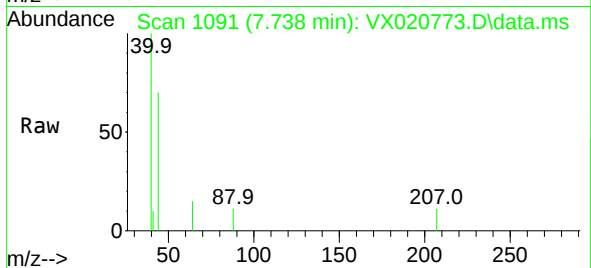




#49  
1,4-Dioxane  
Concen: 0.34 ug/l  
RT: 7.738 min Scan# 1091  
Delta R.T. 0.024 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

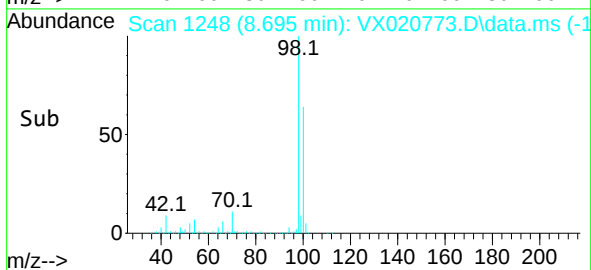
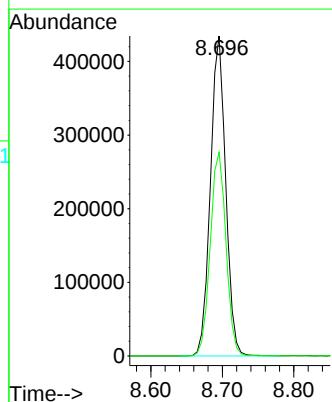
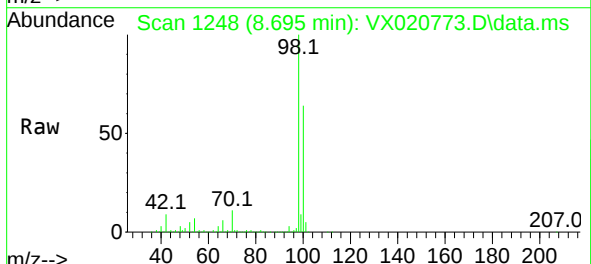
Instrument :  
MSVOA\_X  
ClientSampled :

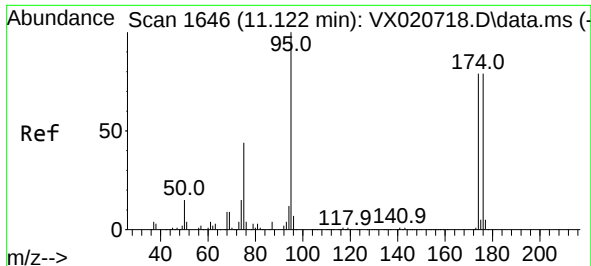
Tgt Ion: 88 Resp: 32  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.2 34.8#  
58 0.0 55.0 82.4#



#50  
Toluene-d8  
Concen: 48.80 ug/l  
RT: 8.695 min Scan# 1248  
Delta R.T. -0.001 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 98 Resp: 644045  
Ion Ratio Lower Upper  
98 100  
100 65.7 51.9 77.9

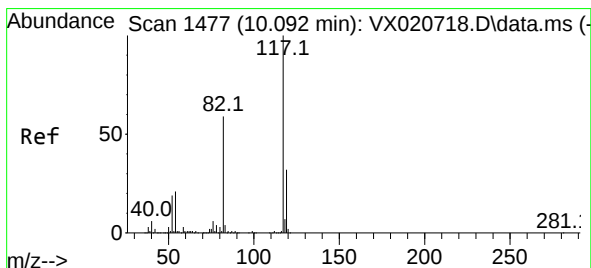
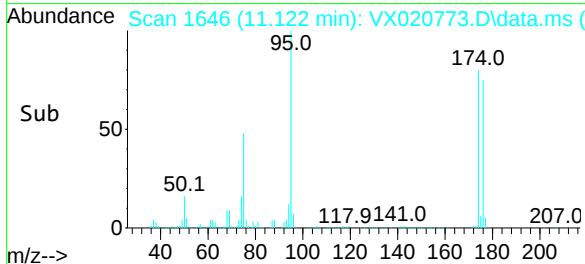
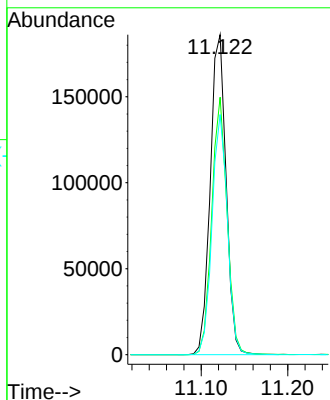
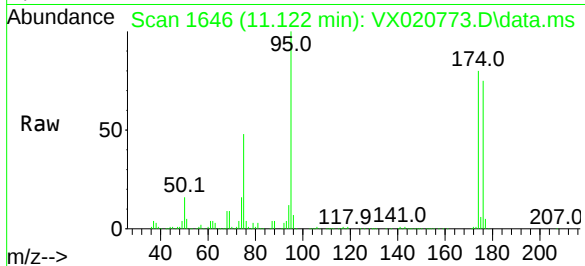




#62  
4-Bromofluorobenzene  
Concen: 46.10 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

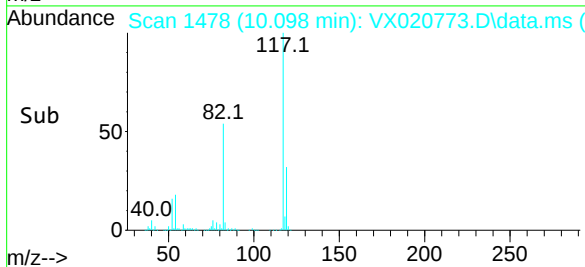
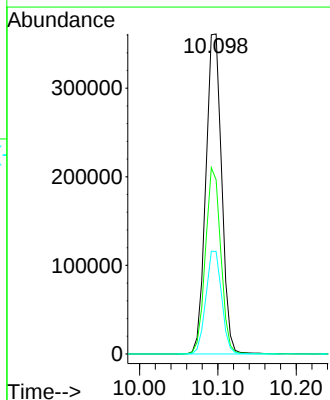
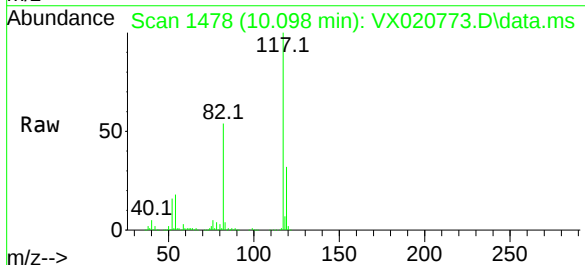
Instrument :  
MSVOA\_X  
ClientSampleId :

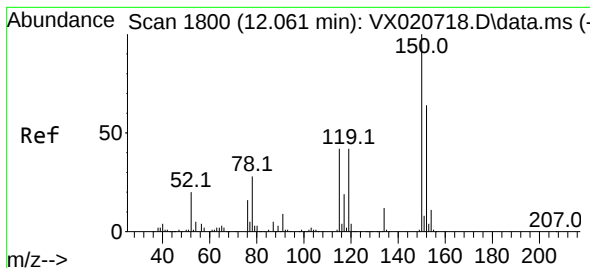
Tgt Ion: 95 Resp: 236270  
Ion Ratio Lower Upper  
95 100  
174 78.0 0.0 154.6  
176 73.0 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.098 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 117 Resp: 506656  
Ion Ratio Lower Upper  
117 100  
82 54.5 47.4 71.2  
119 32.1 26.6 39.8

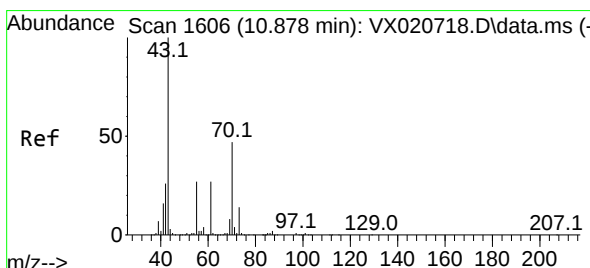
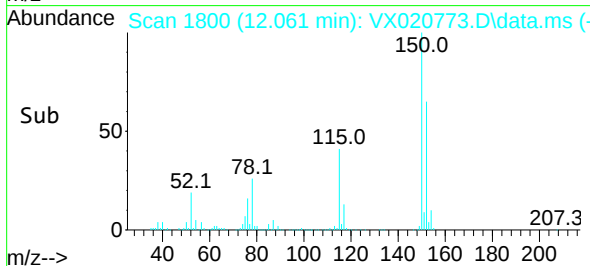
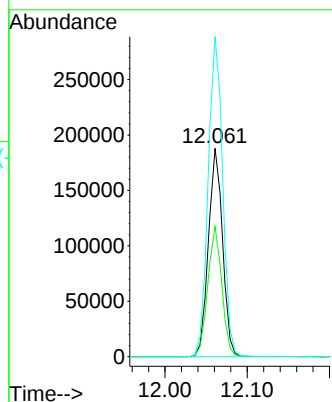
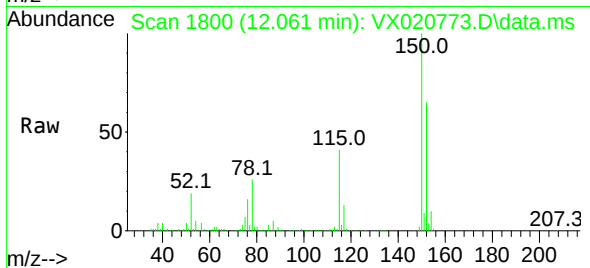




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.061 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

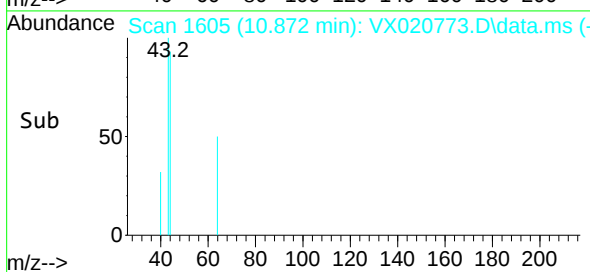
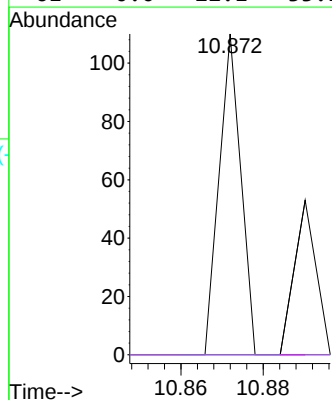
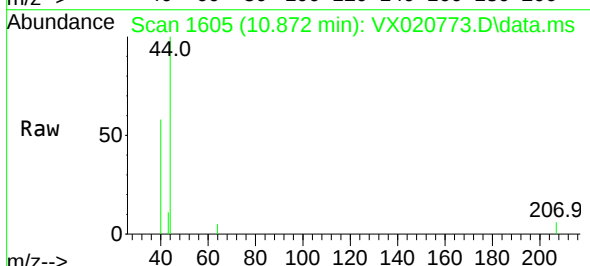
Instrument :  
MSVOA\_X  
ClientSampleId :

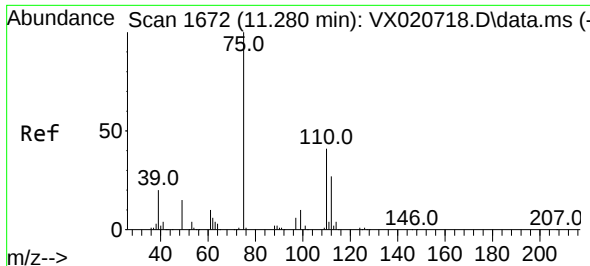
Tgt Ion:152 Resp: 224827  
Ion Ratio Lower Upper  
152 100  
115 61.6 41.1 123.3  
150 157.1 0.0 349.0



#74  
N-ethyl acetate  
Concen: 2.02 ug/l  
RT: 10.872 min Scan# 1605  
Delta R.T. -0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Tgt Ion: 43 Resp: 40  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.0 58.6#  
55 0.0 21.5 32.3#  
61 0.0 22.1 33.1#

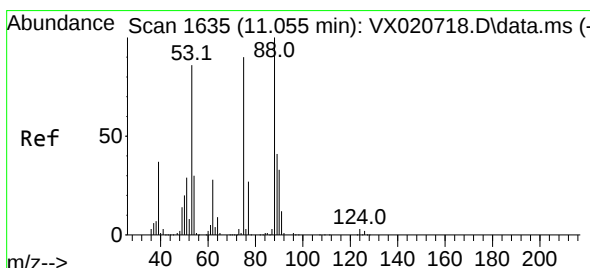
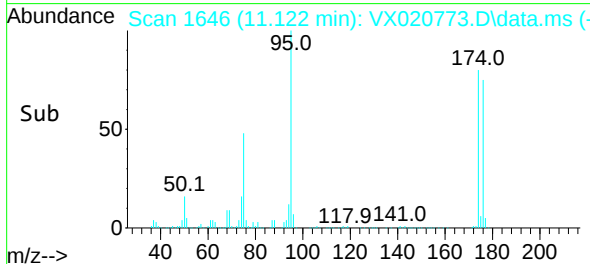
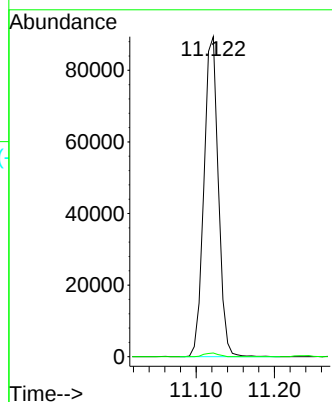
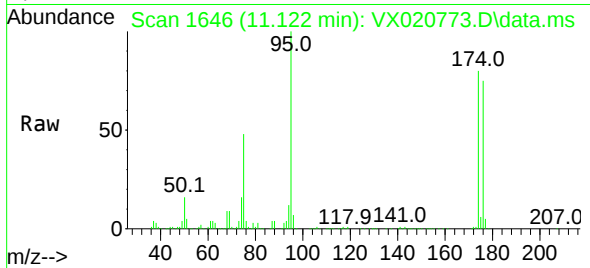




#76  
1,2,3-Trichloropropane  
Concen: 21.87 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.158 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

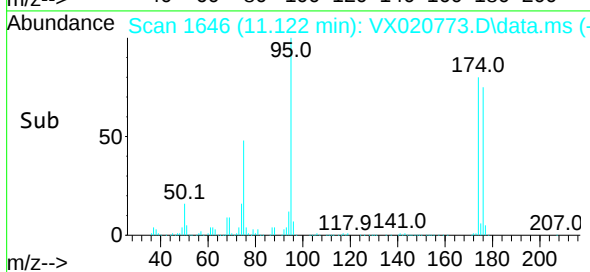
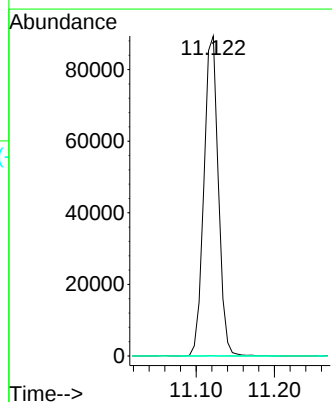
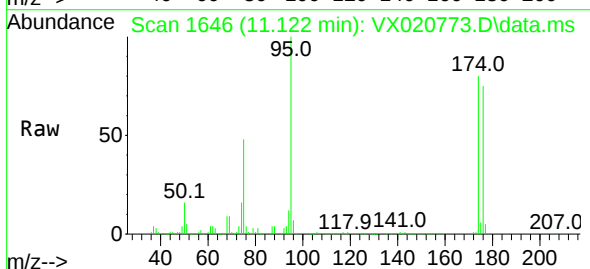
Instrument :  
MSVOA\_X  
ClientSampled :

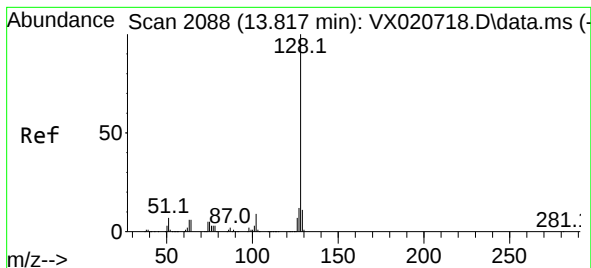
Tgt Ion: 75 Resp: 114056  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.29 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.067 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

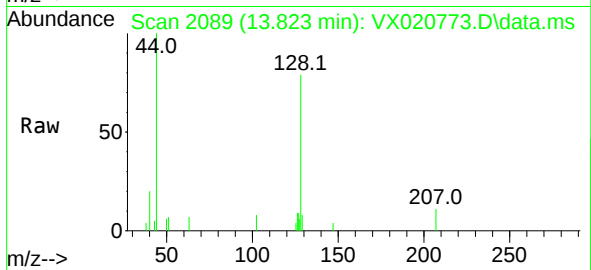
Tgt Ion: 75 Resp: 114056  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.5 111.7#  
89 0.0 37.9 56.9#





#95  
Naphthalene  
Concen: 2.96 ug/l  
RT: 13.823 min Scan# 2089  
Delta R.T. 0.006 min  
Lab File: VX020773.D  
Acq: 27 Jan 2021 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1669  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 10.8  | 10.3  | 15.5  |
| 129      | 6.5   | 8.8   | 13.2# |

