

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX040122\  
 Data File : VX027885.D  
 Acq On : 01 Apr 2022 16:45  
 Operator : JC/MD  
 Sample : N2074-04DL 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT180D2-20220318DL

Quant Time: Apr 02 05:09:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

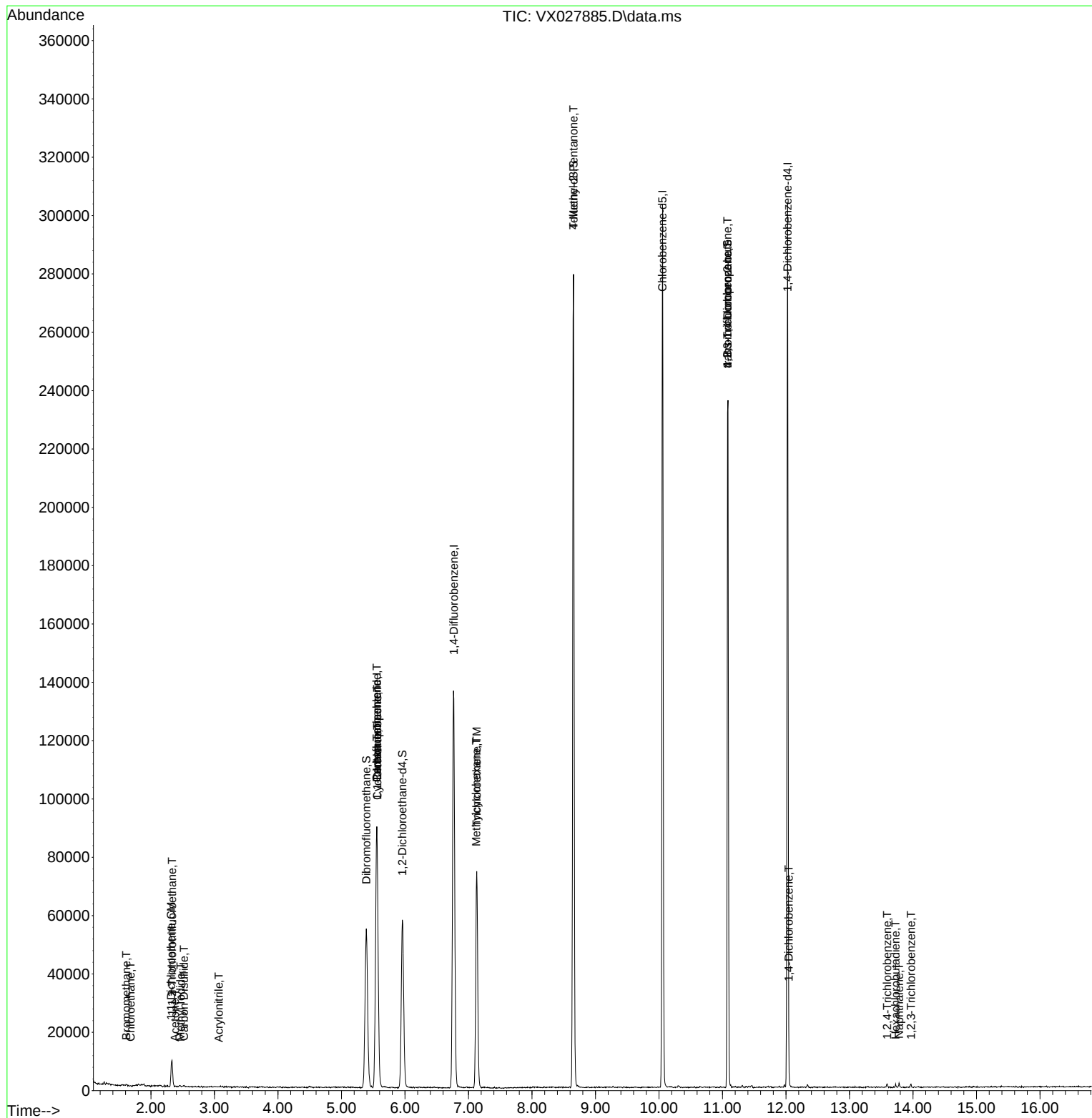
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 82036               | 50.000 | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 141857              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 124218              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 55677               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 56837               | 53.696 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 107.400% |        |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 46297               | 50.562 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 101.120% |        |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 161495              | 50.128 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 100.260% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 65258               | 47.665 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 95.340%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 1.612          | 94   | 151                 | 0.497  | ug/l   | 91       |
| 6) Chloroethane               | 1.679          | 64   | 149                 | 0.328  | ug/l # | 43       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331          | 101  | 2481                | 3.230  | ug/l   | 91       |
| 10) Methyl Iodide             | 2.465          | 142  | 503                 | 0.564  | ug/l # | 90       |
| 12) 1,1-Dichloroethene        | 2.319          | 96   | 1263                | 1.792  | ug/l   | 88       |
| 15) Acrylonitrile             | 3.069          | 53   | 156                 | 0.327  | ug/l # | 18       |
| 16) Acetone                   | 2.380          | 43   | 266                 | 0.568  | ug/l # | 39       |
| 17) Carbon Disulfide          | 2.520          | 76   | 502                 | 0.348  | ug/l # | 75       |
| 31) Cyclohexane               | 5.562          | 56   | 1764                | 1.508  | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 6836                | 5.928  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 8598                | 6.748  | ug/l # | 15       |
| 39) Methylcyclohexane         | 7.123          | 83   | 341                 | 0.251  | ug/l # | 10       |
| 44) Trichloroethene           | 7.129          | 130  | 28568               | 30.078 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 754                 | 0.475  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 35745               | 27.368 | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 35745               | 80.024 | ug/l # | 15       |
| 88) 1,4-Dichlorobenzene       | 12.043         | 146  | 394                 | 0.206  | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 315                 | 0.280  | ug/l   | 70       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 245                 | 1.299  | ug/l   | 82       |
| 95) Naphthalene               | 13.780         | 128  | 1179                | 0.300  | ug/l # | 87       |
| 96) 1,2,3-Trichlorobenzene    | 13.969         | 180  | 333                 | 0.302  | ug/l   | 91       |
| -----                         |                |      |                     |        |        |          |

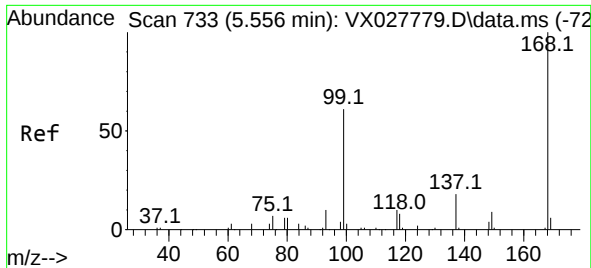
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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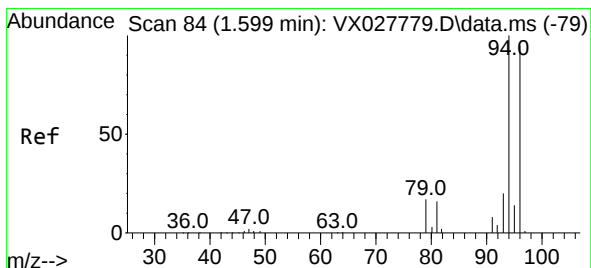
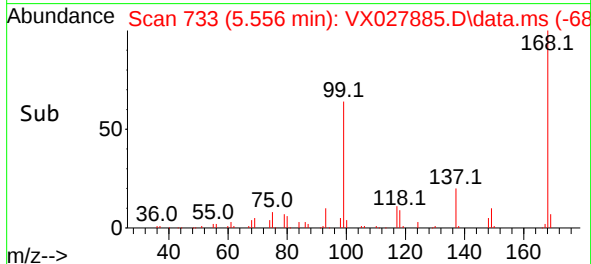
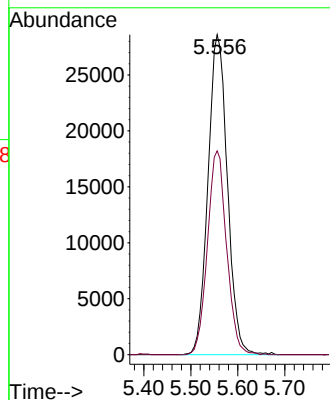
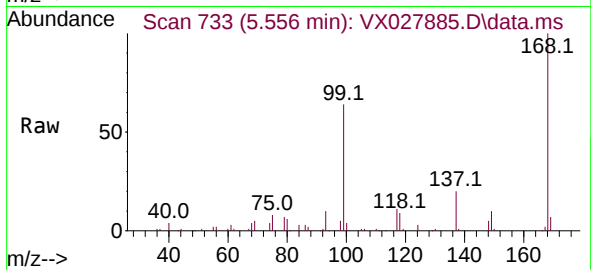




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

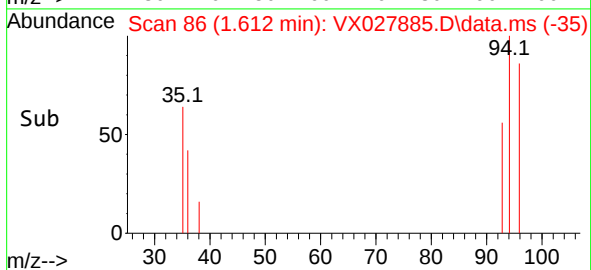
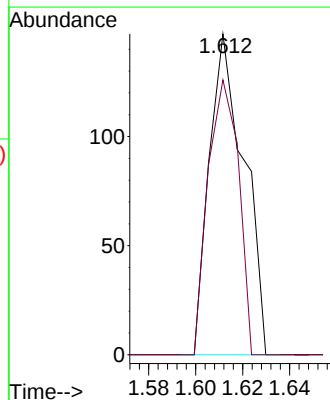
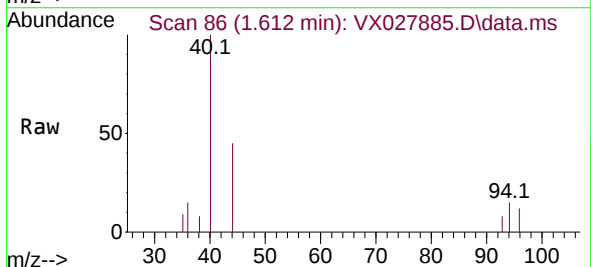
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

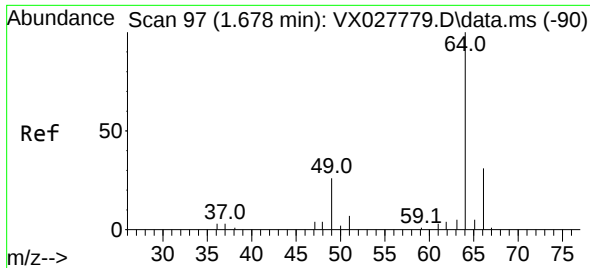
Tgt Ion:168 Resp: 82036  
Ion Ratio Lower Upper  
168 100  
99 63.7 41.7 62.5#



#5  
Bromomethane  
Concen: 0.497 ug/l  
RT: 1.612 min Scan# 86  
Delta R.T. 0.013 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Tgt Ion: 94 Resp: 151  
Ion Ratio Lower Upper  
94 100  
96 85.7 75.3 112.9

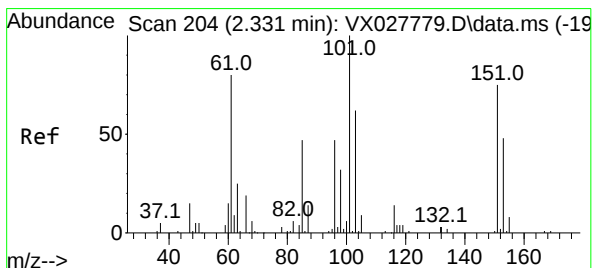
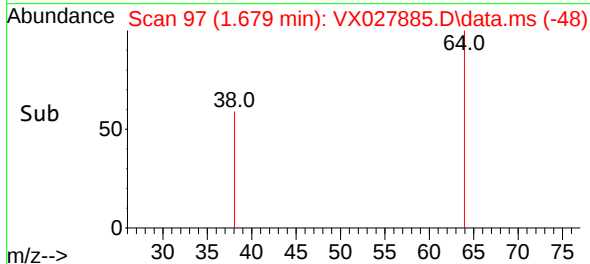
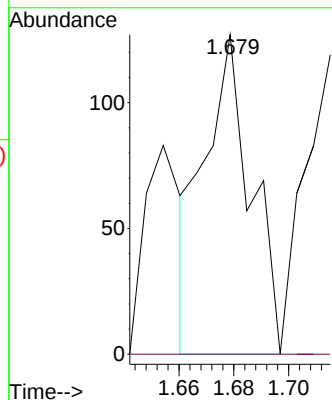
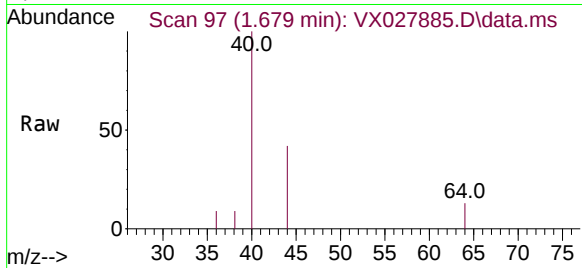




#6  
Chloroethane  
Concen: 0.328 ug/l  
RT: 1.679 min Scan# 91  
Delta R.T. 0.001 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

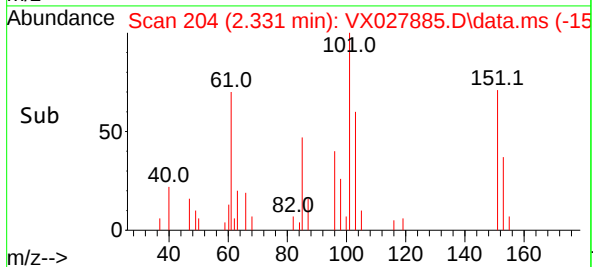
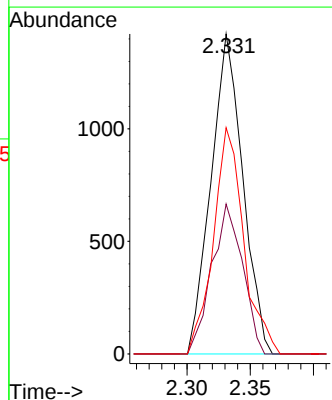
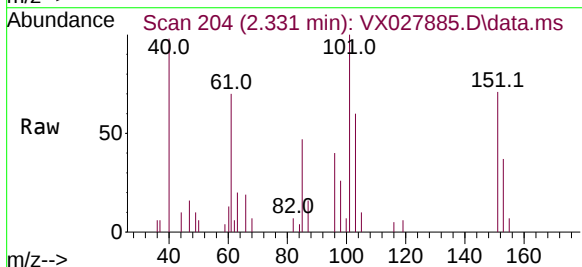
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

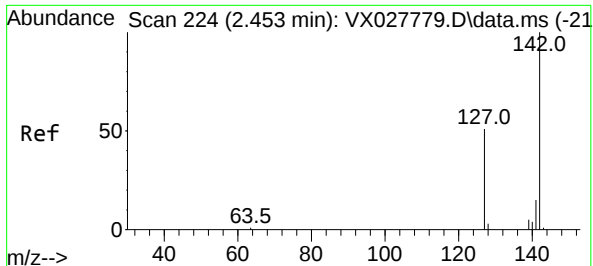
Tgt Ion: 64 Resp: 149  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.3 37.9#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 3.230 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

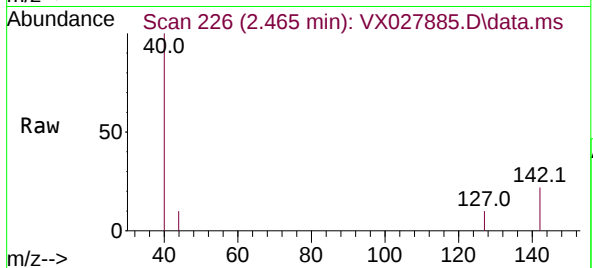
Tgt Ion: 101 Resp: 2481  
Ion Ratio Lower Upper  
101 100  
85 45.5 33.5 50.3  
151 67.6 61.8 92.6



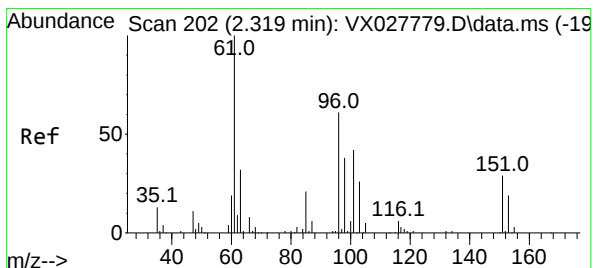
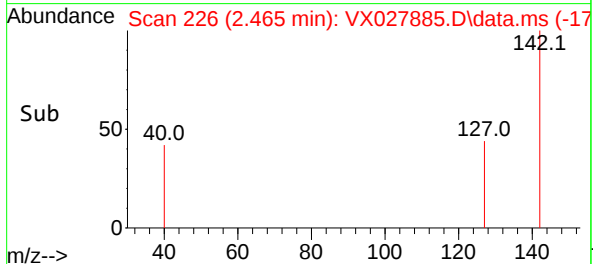
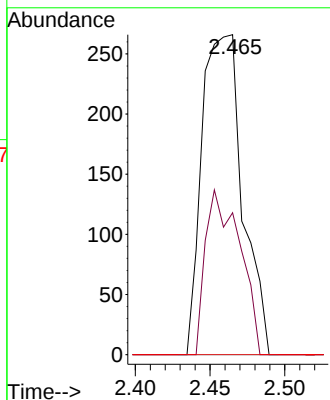


#10  
Methyl Iodide  
Concen: 0.564 ug/l  
RT: 2.465 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

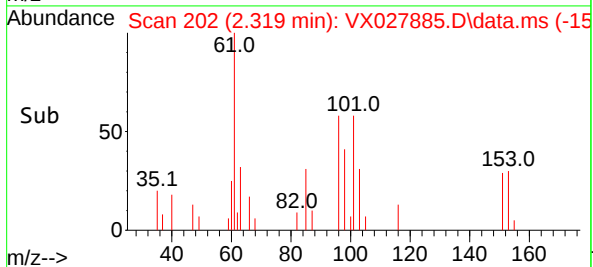
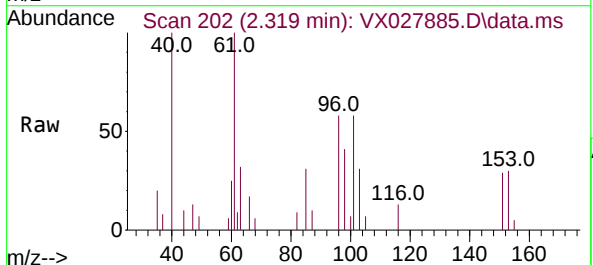
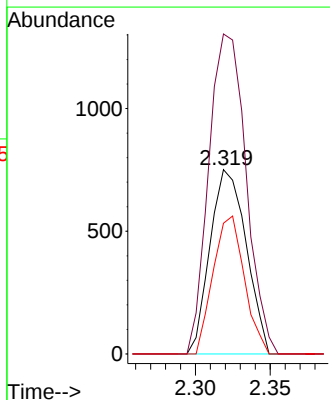


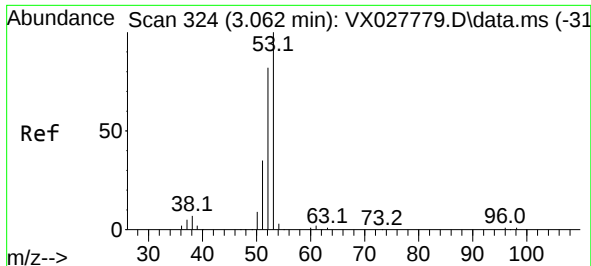
Tgt Ion:142 Resp: 503  
Ion Ratio Lower Upper  
142 100  
127 43.5 33.9 50.9  
141 0.0 11.4 17.2#



#12  
1,1-Dichloroethene  
Concen: 1.792 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Tgt Ion: 96 Resp: 1263  
Ion Ratio Lower Upper  
96 100  
61 173.6 124.6 187.0  
98 71.0 51.0 76.4





#15

Acrylonitrile

Concen: 0.327 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.007 min

Lab File: VX027885.D

Acq: 01 Apr 2022 16:45

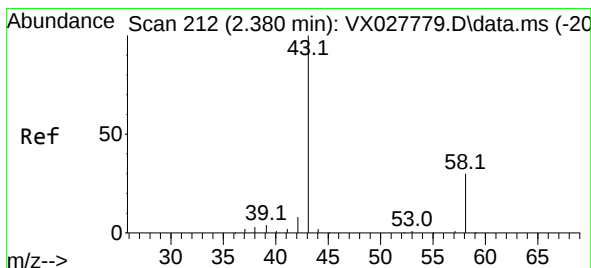
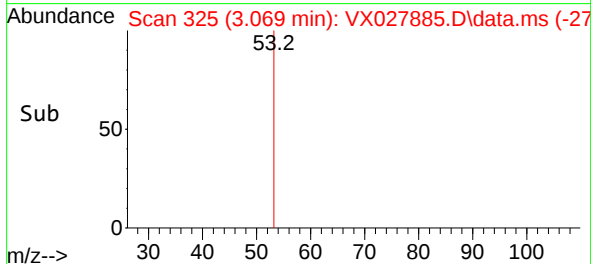
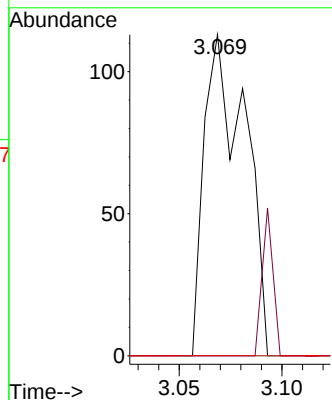
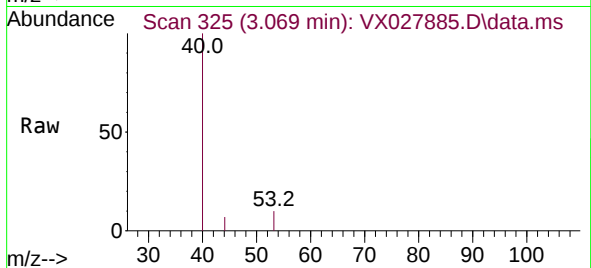
Instrument :

MSVOA\_X

ClientSampleId :

TT180D2-20220318DL

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 53 | Resp: | 156        |
| Ion Ratio   | Lower | Upper      |
| 53          | 100   |            |
| 52          | 0.0   | 65.7 98.5# |
| 51          | 0.0   | 28.4 42.6# |



#16

Acetone

Concen: 0.568 ug/l

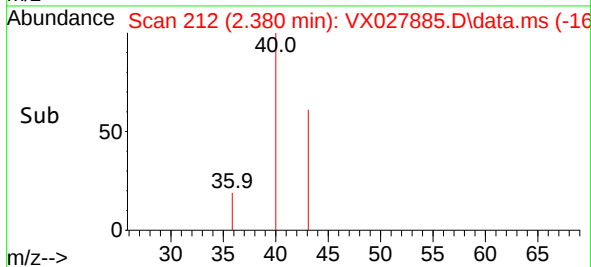
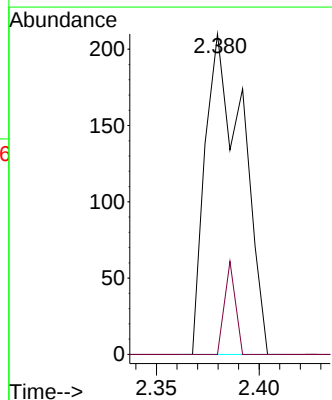
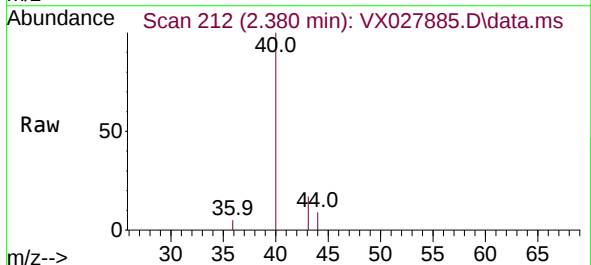
RT: 2.380 min Scan# 212

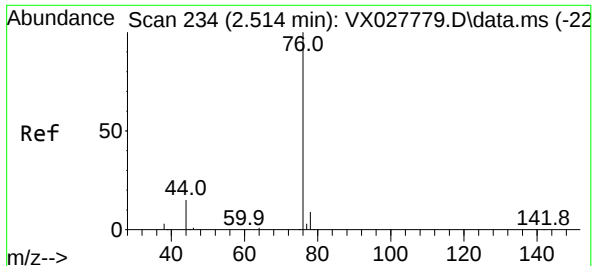
Delta R.T. -0.000 min

Lab File: VX027885.D

Acq: 01 Apr 2022 16:45

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 43 | Resp: | 266        |
| Ion Ratio   | Lower | Upper      |
| 43          | 100   |            |
| 58          | 0.0   | 28.8 43.2# |

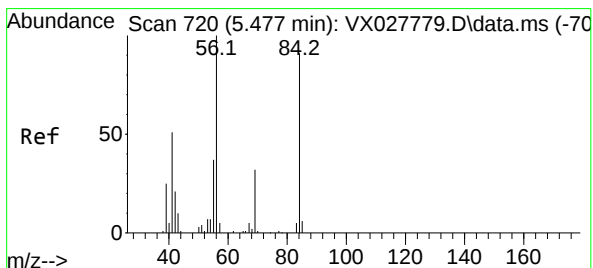
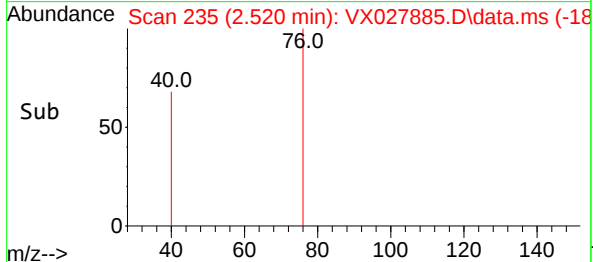
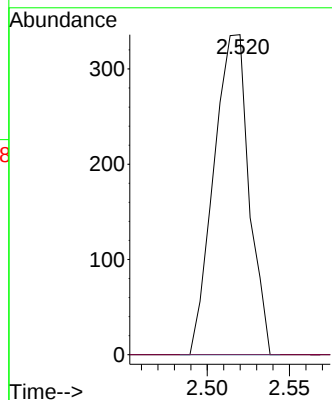
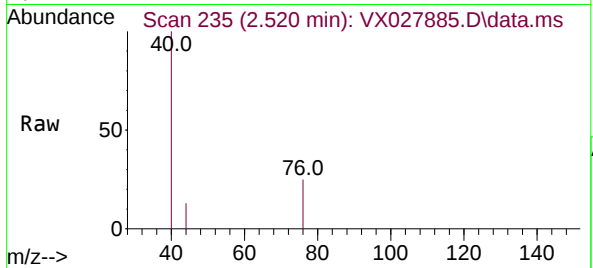




#17  
Carbon Disulfide  
Concen: 0.348 ug/l  
RT: 2.520 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

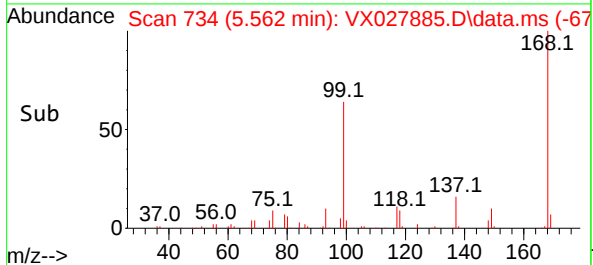
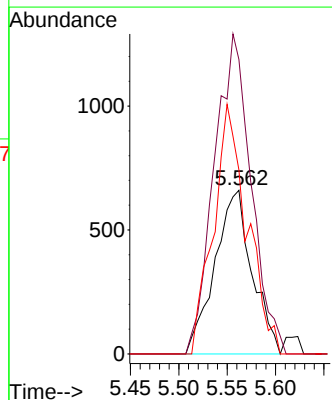
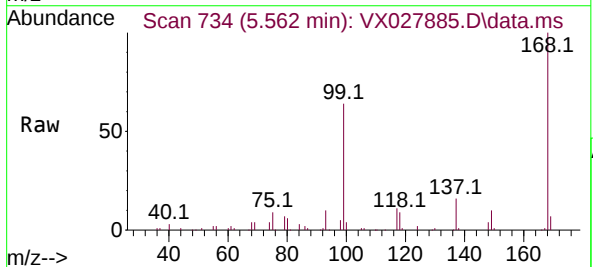
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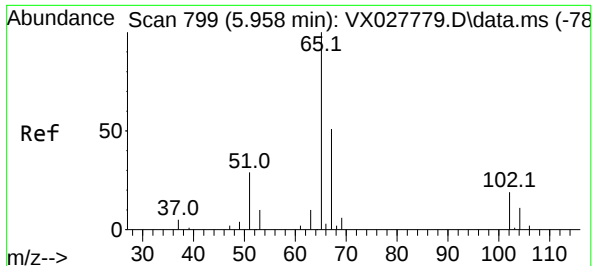
Tgt Ion: 76 Resp: 502  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#31  
Cyclohexane  
Concen: 1.508 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Tgt Ion: 56 Resp: 1764  
Ion Ratio Lower Upper  
56 100  
69 180.0 26.7 40.1#  
84 112.4 77.2 115.8





#33

1,2-Dichloroethane-d4

Concen: 53.696 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX027885.D

Acq: 01 Apr 2022 16:45

Instrument :

MSVOA\_X

ClientSampleId :

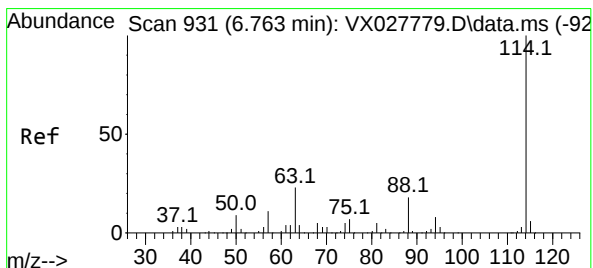
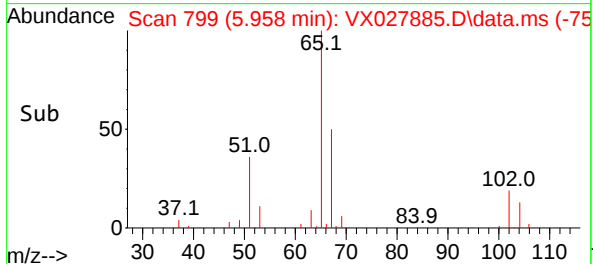
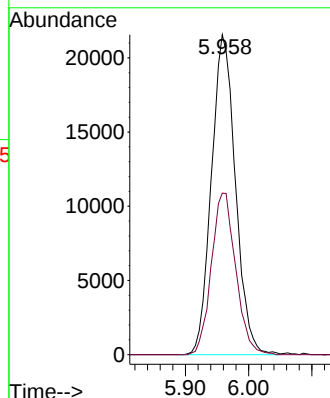
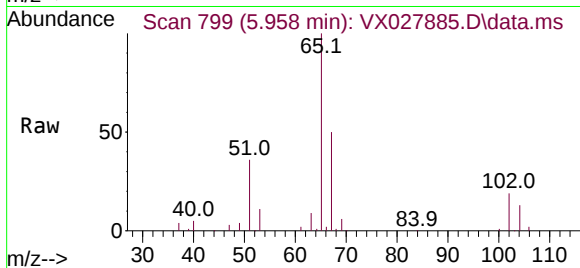
TT180D2-20220318DL

Tgt Ion: 65 Resp: 56837

Ion Ratio Lower Upper

65 100

67 51.1 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.006 min

Lab File: VX027885.D

Acq: 01 Apr 2022 16:45

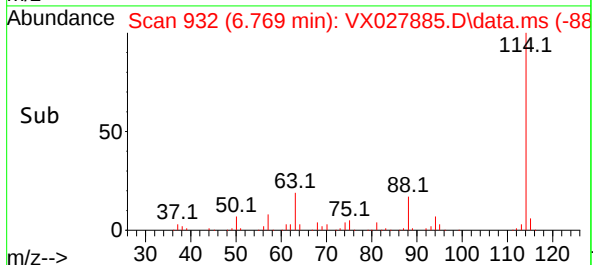
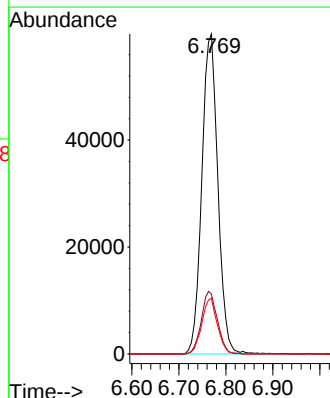
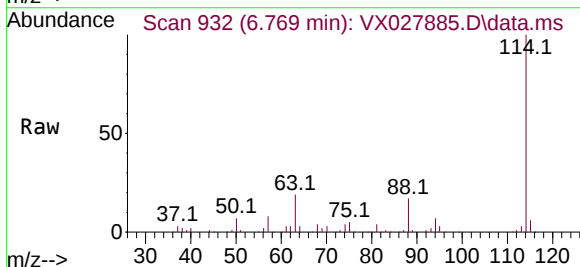
Tgt Ion: 114 Resp: 141857

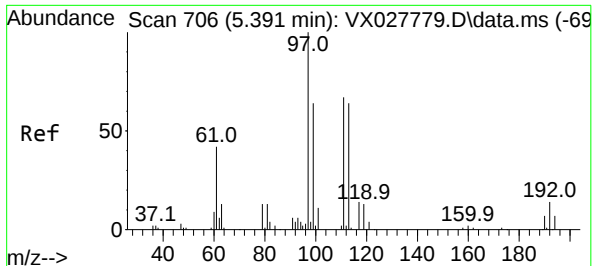
Ion Ratio Lower Upper

114 100

63 18.7 0.0 36.8

88 17.5 0.0 32.4

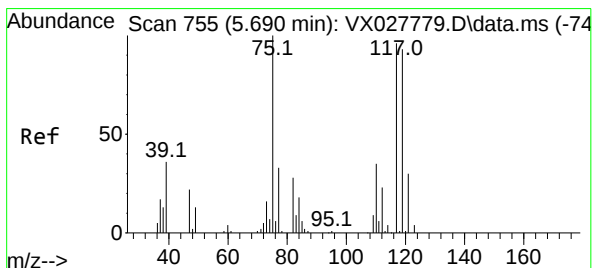
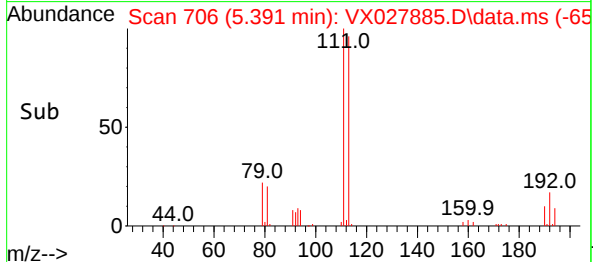
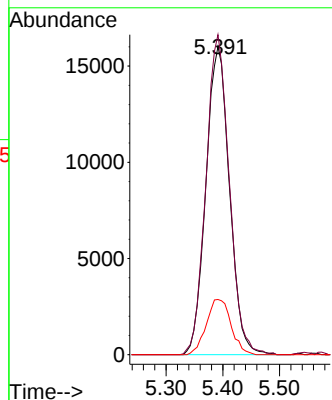
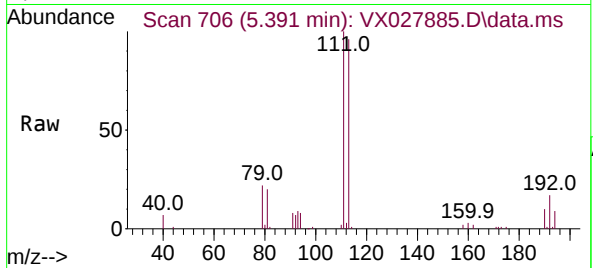




#35  
Dibromofluoromethane  
Concen: 50.562 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

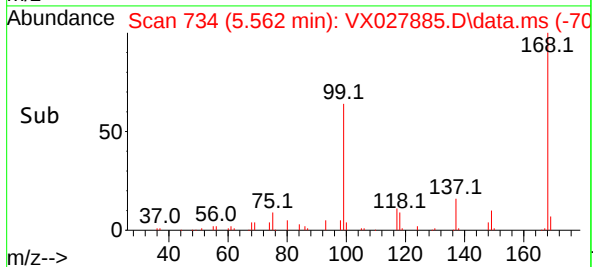
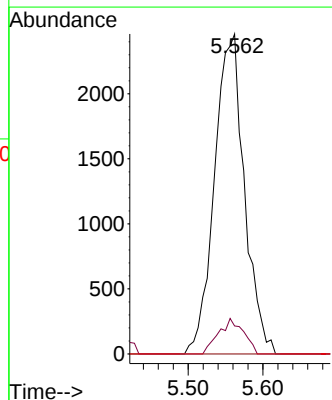
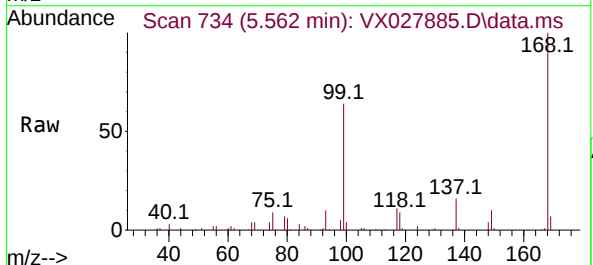
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

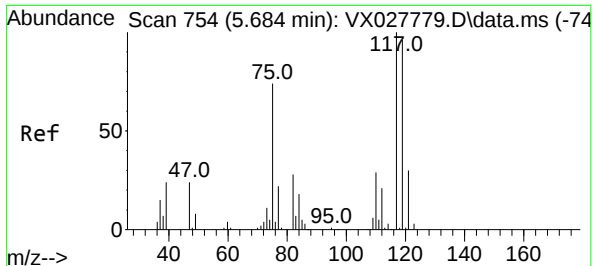
Tgt Ion:113 Resp: 46297  
Ion Ratio Lower Upper  
113 100  
111 102.9 82.8 124.2  
192 18.8 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 5.928 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

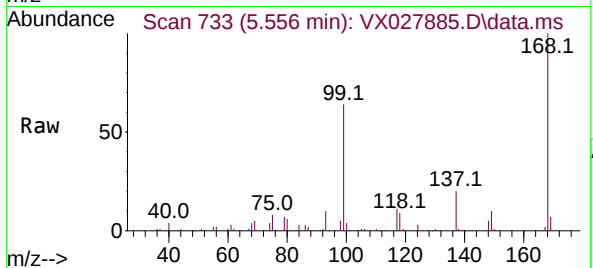
Tgt Ion: 75 Resp: 6836  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.3 54.8#  
77 0.0 24.8 37.2#



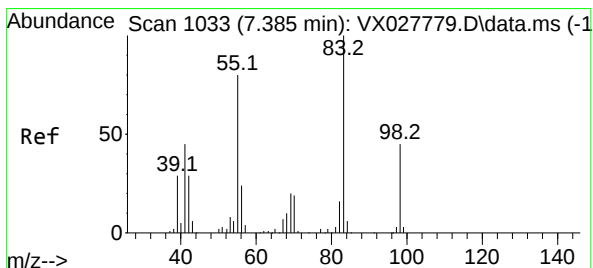
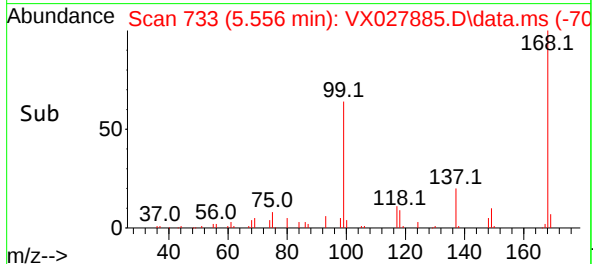
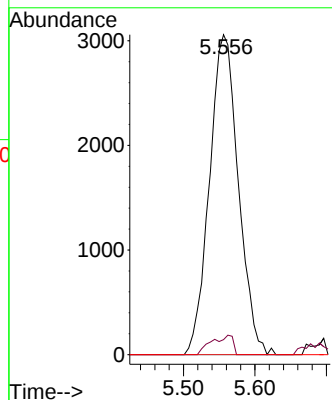


#38  
Carbon Tetrachloride  
Concen: 6.748 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

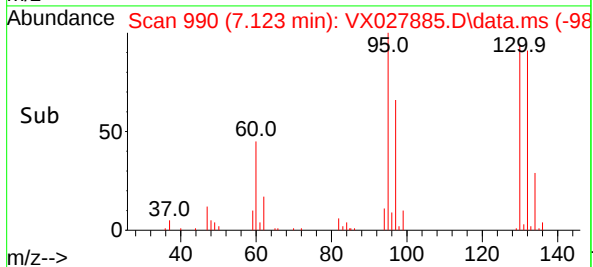
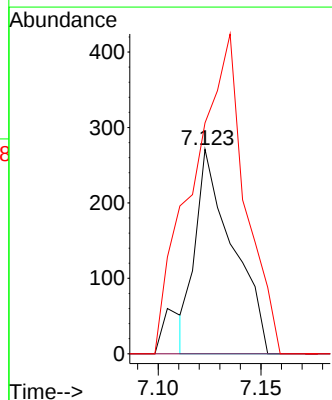
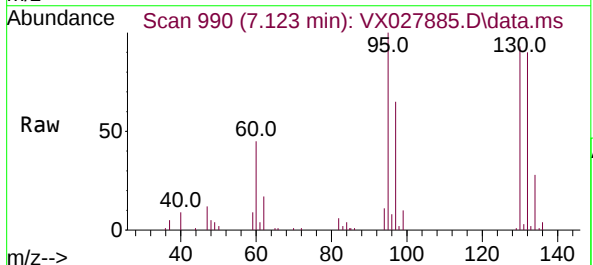


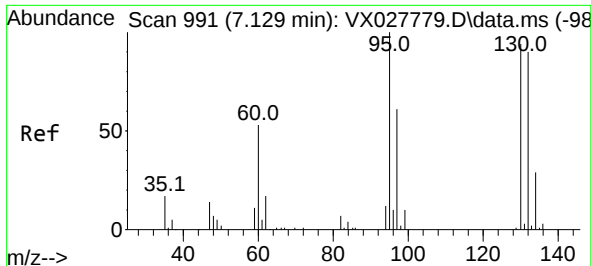
Tgt Ion:117 Resp: 8598  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.3 115.9#  
121 0.0 24.2 36.2#



#39  
Methylcyclohexane  
Concen: 0.251 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.262 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Tgt Ion: 83 Resp: 341  
Ion Ratio Lower Upper  
83 100  
55 0.0 54.6 81.8#  
98 112.9 37.4 56.2#

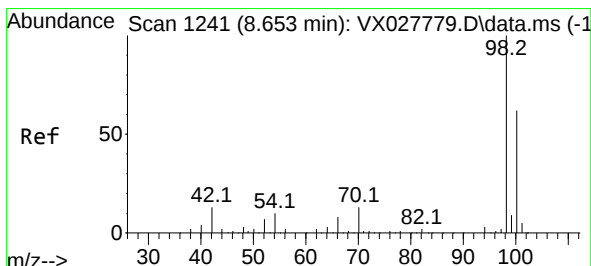
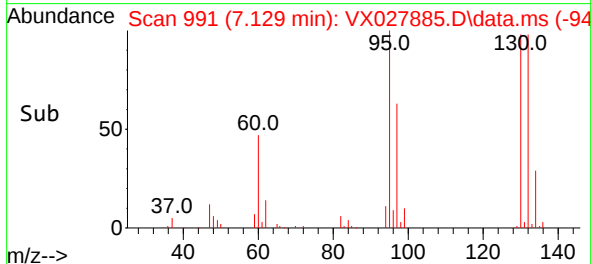
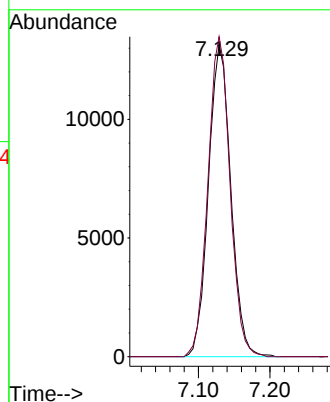
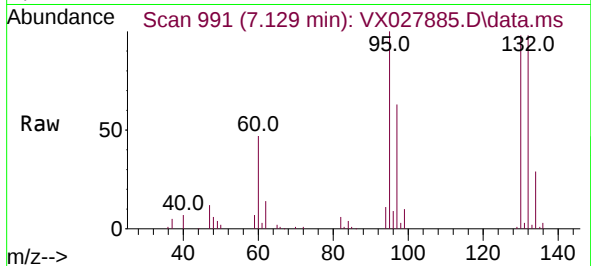




#44  
Trichloroethene  
Concen: 30.078 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

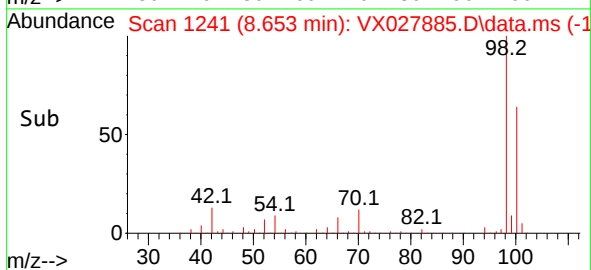
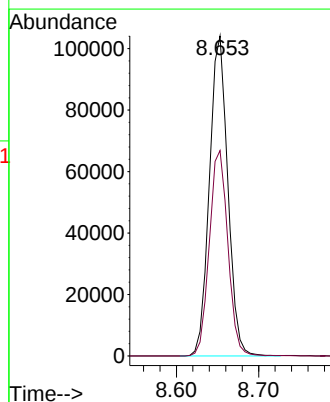
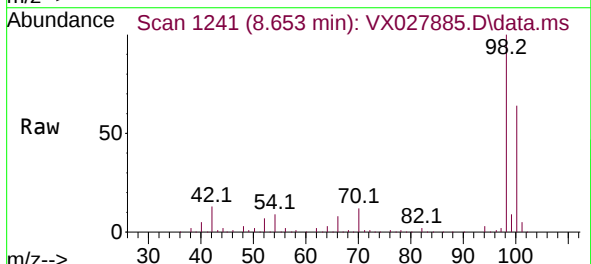
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

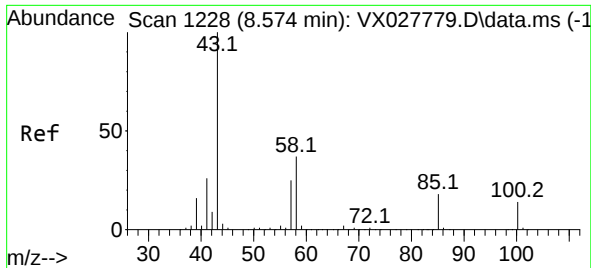
Tgt Ion:130 Resp: 28568  
Ion Ratio Lower Upper  
130 100  
95 102.5 0.0 188.8



#50  
Toluene-d8  
Concen: 50.128 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Tgt Ion: 98 Resp: 161495  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.6 78.8

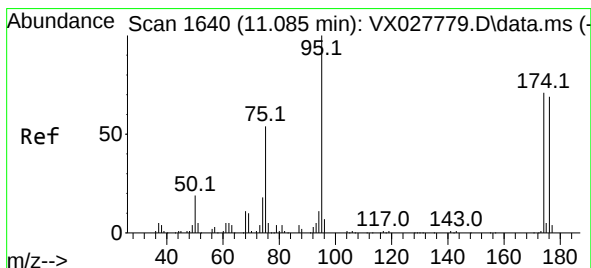
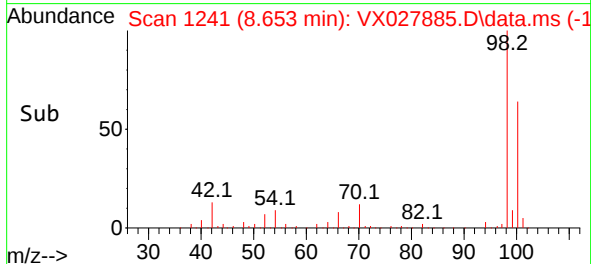
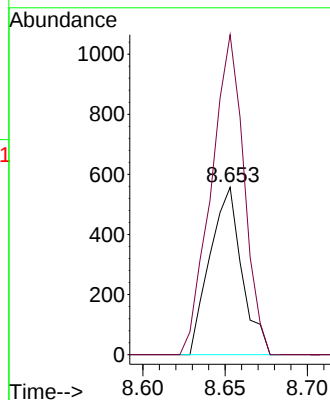
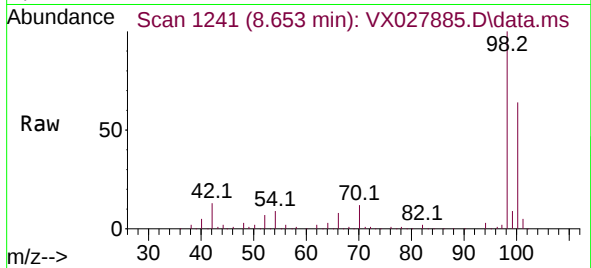




#51  
4-Methyl-2-Pentanone  
Concen: 0.475 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.079 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

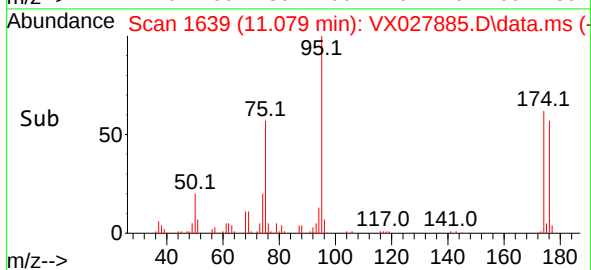
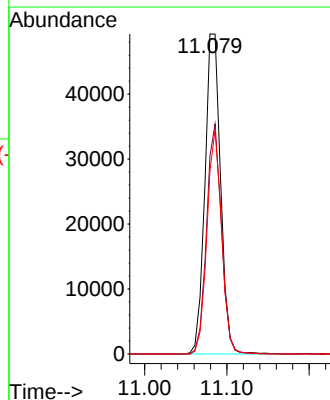
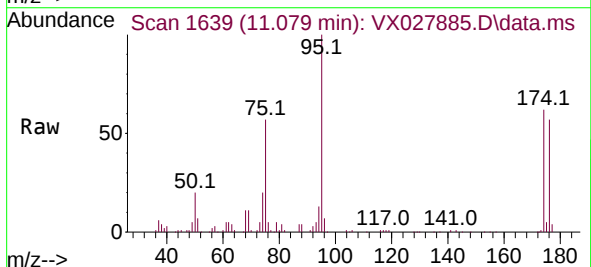
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

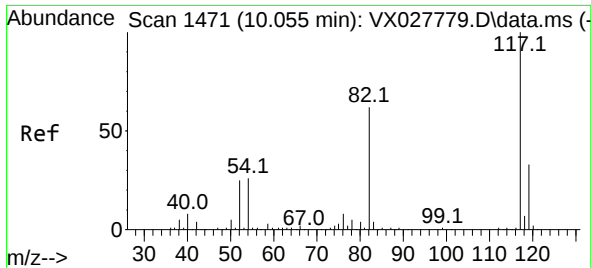
Tgt Ion: 43 Resp: 754  
Ion Ratio Lower Upper  
43 100  
58 196.2 36.1 54.1#



#62  
4-Bromofluorobenzene  
Concen: 47.665 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Tgt Ion: 95 Resp: 65258  
Ion Ratio Lower Upper  
95 100  
174 68.2 0.0 163.0  
176 65.5 0.0 155.0

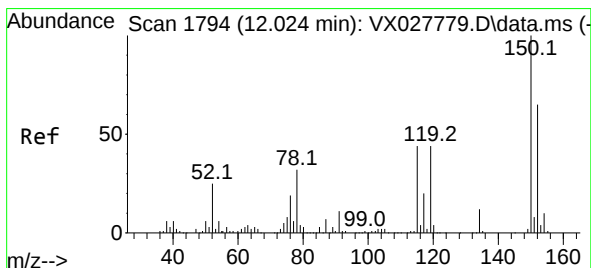
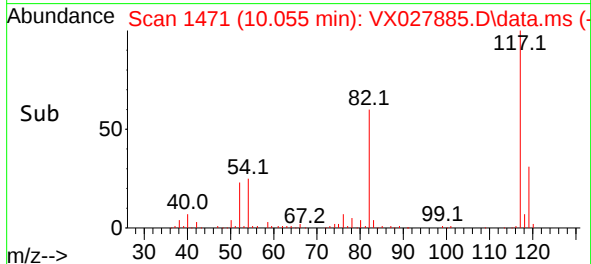
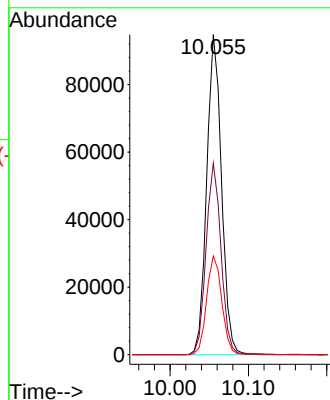
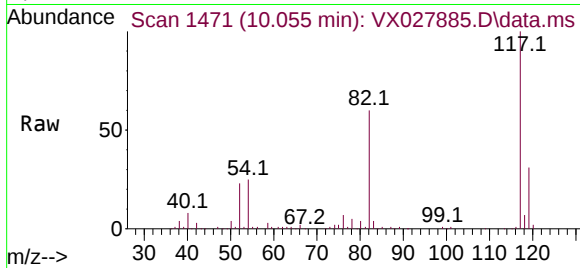




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

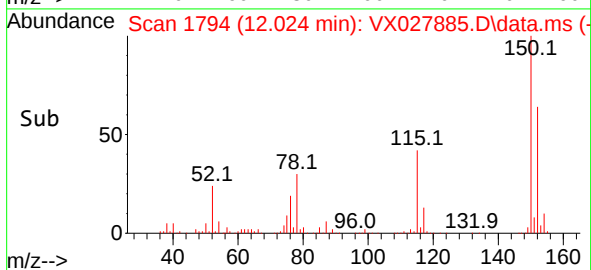
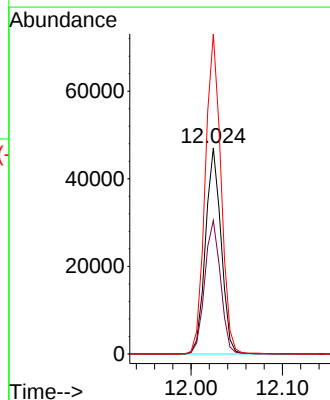
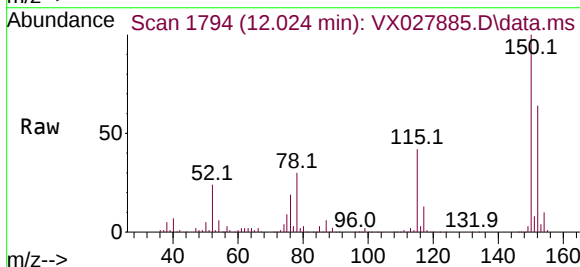
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

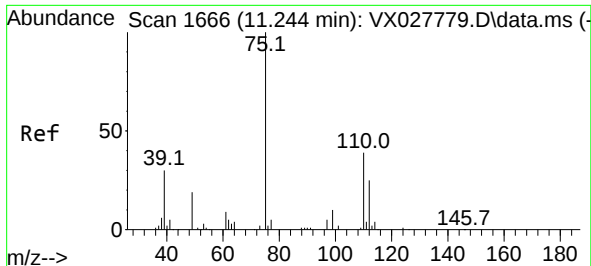
Tgt Ion:117 Resp: 124218  
Ion Ratio Lower Upper  
117 100  
82 59.9 41.8 62.8  
119 30.9 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

Tgt Ion:152 Resp: 55677  
Ion Ratio Lower Upper  
152 100  
115 65.8 37.5 112.7  
150 157.3 0.0 338.2

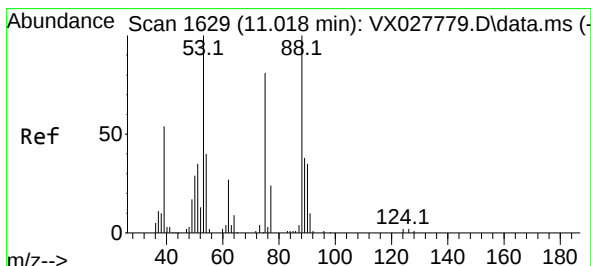
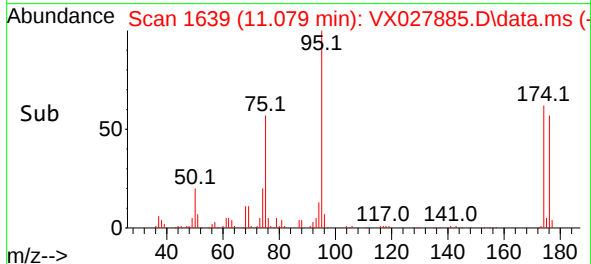
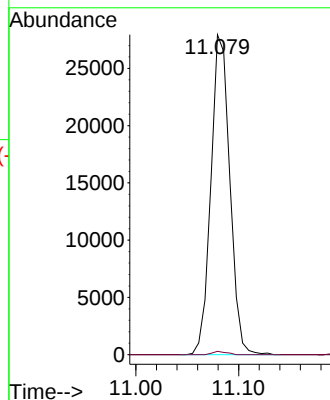
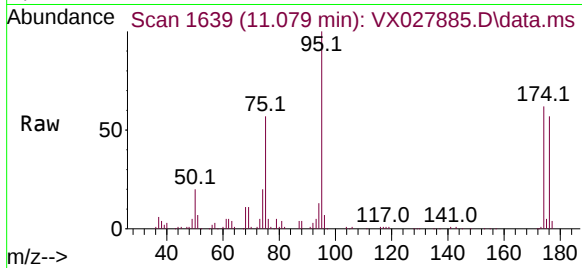




#76  
1,2,3-Trichloropropane  
Concen: 27.368 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

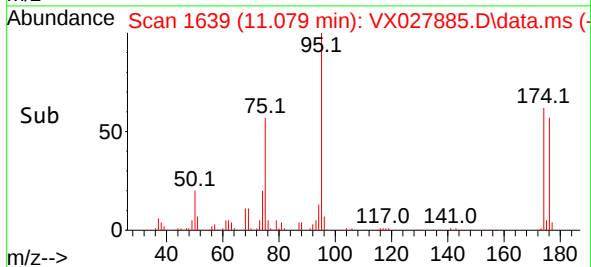
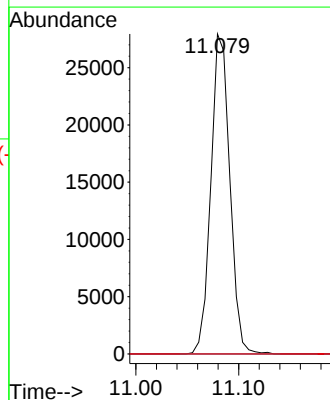
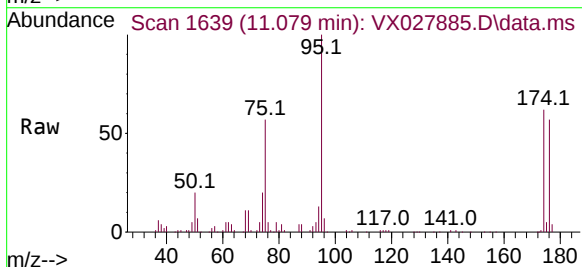
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT180D2-20220318DL

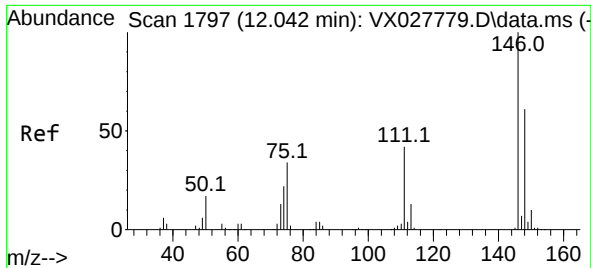
Tgt Ion: 75 Resp: 35745  
Ion Ratio Lower Upper  
75 100  
77 0.8 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 80.024 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX027885.D  
Acq: 01 Apr 2022 16:45

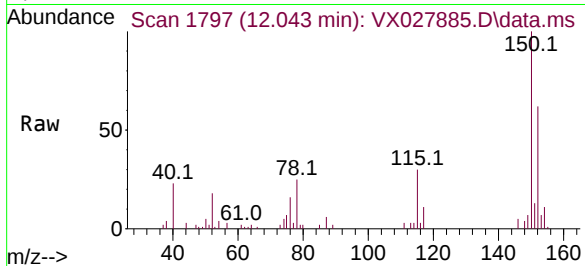
Tgt Ion: 75 Resp: 35745  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.0 103.4#  
89 0.0 37.0 55.6#



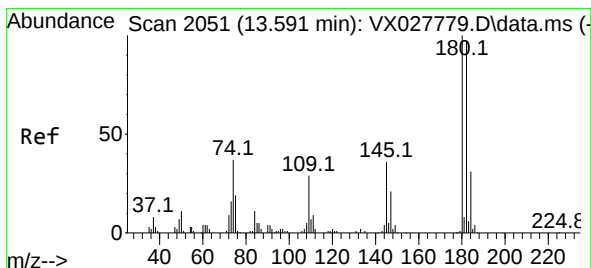
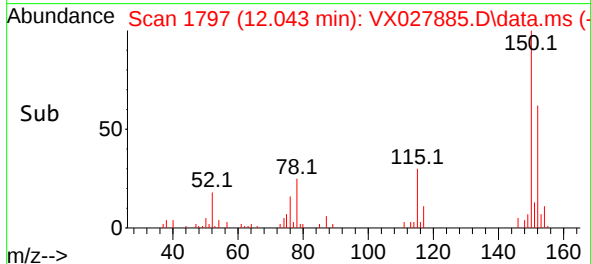
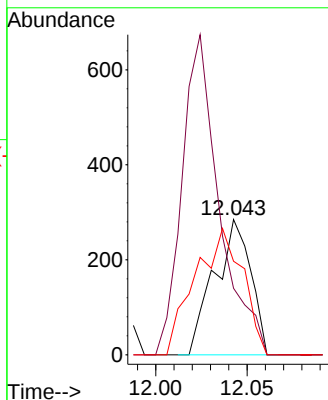


#88  
 1,4-Dichlorobenzene  
 Concen: 0.206 ug/l  
 RT: 12.043 min Scan# 11  
 Delta R.T. 0.001 min  
 Lab File: VX027885.D  
 Acq: 01 Apr 2022 16:45

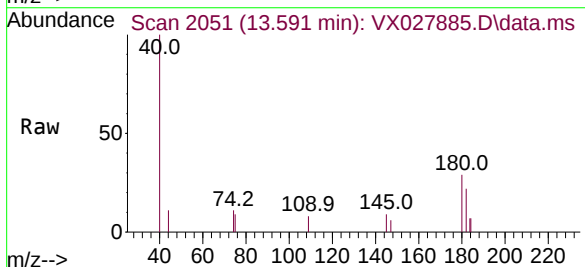
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT180D2-20220318DL



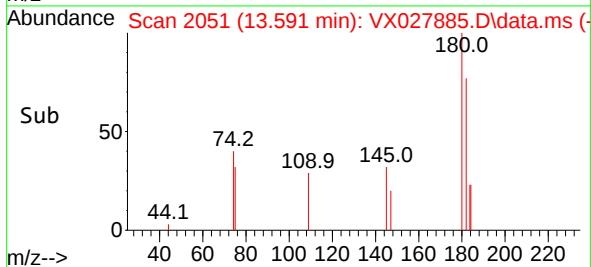
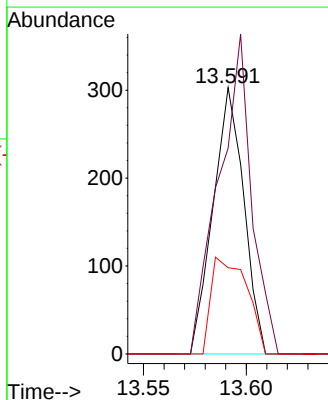
Tgt Ion:146 Resp: 394  
 Ion Ratio Lower Upper  
 146 100  
 111 241.4 19.2 57.6#  
 148 122.1 32.3 96.9#

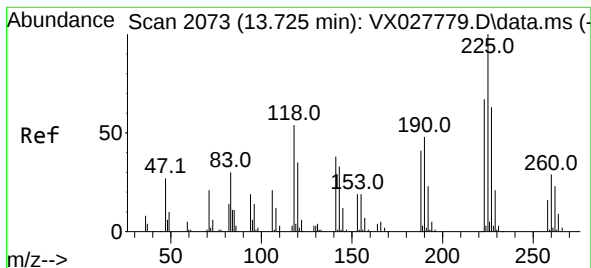


#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.280 ug/l  
 RT: 13.591 min Scan# 2051  
 Delta R.T. 0.000 min  
 Lab File: VX027885.D  
 Acq: 01 Apr 2022 16:45



Tgt Ion:180 Resp: 315  
 Ion Ratio Lower Upper  
 180 100  
 182 127.6 47.7 143.1  
 145 41.9 15.2 45.5





#94

Hexachlorobutadiene

Concen: 1.299 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX027885.D

Acq: 01 Apr 2022 16:45

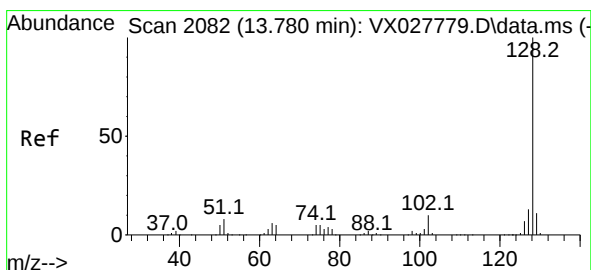
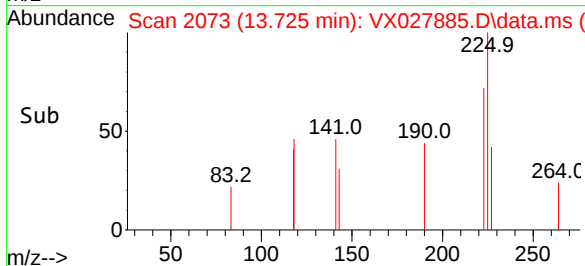
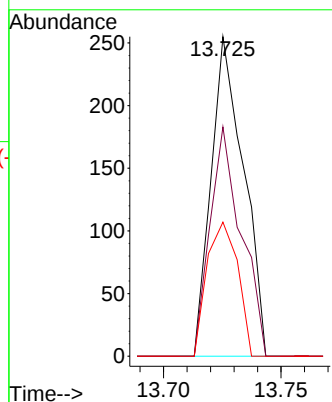
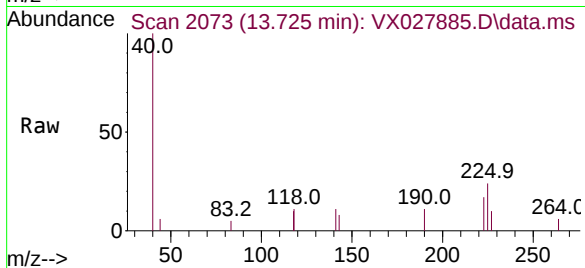
Instrument :

MSVOA\_X

ClientSampleId :

TT180D2-20220318DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 245   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 69.0  | 34.2  | 102.5 |
| 227      | 39.6  | 33.9  | 101.7 |



#95

Naphthalene

Concen: 0.300 ug/l

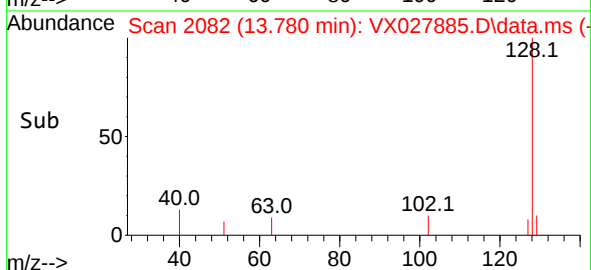
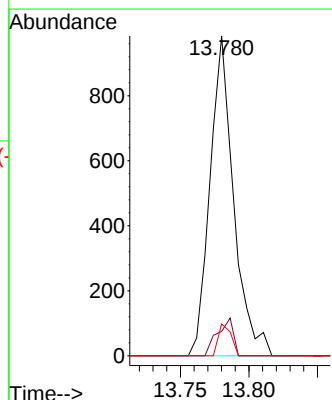
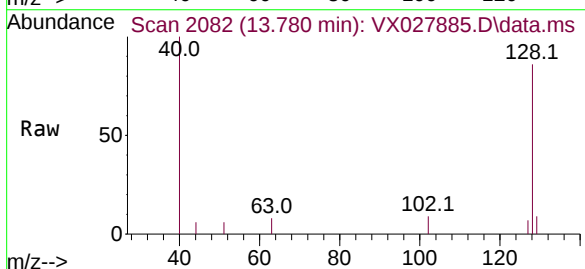
RT: 13.780 min Scan# 2082

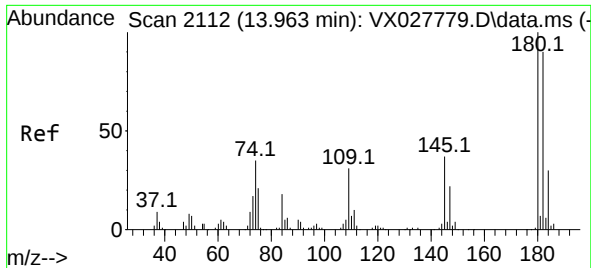
Delta R.T. 0.000 min

Lab File: VX027885.D

Acq: 01 Apr 2022 16:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1179  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 7.9   | 10.2  | 15.4# |
| 129      | 5.3   | 8.7   | 13.1# |





#96

1,2,3-Trichlorobenzene

Concen: 0.302 ug/l

RT: 13.969 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX027885.D

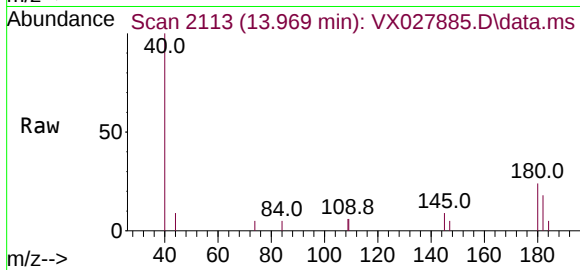
Acq: 01 Apr 2022 16:45

Instrument :

MSVOA\_X

ClientSampleId :

TT180D2-20220318DL



Tgt Ion:180 Resp: 333

Ion Ratio Lower Upper

180 100

182 105.1 50.0 149.8

145 43.2 16.2 48.5

