

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082823\  
 Data File : VX037298.D  
 Acq On : 28 Aug 2023 16:36  
 Operator : JC/MD  
 Sample : 04126-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 29 01:00:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

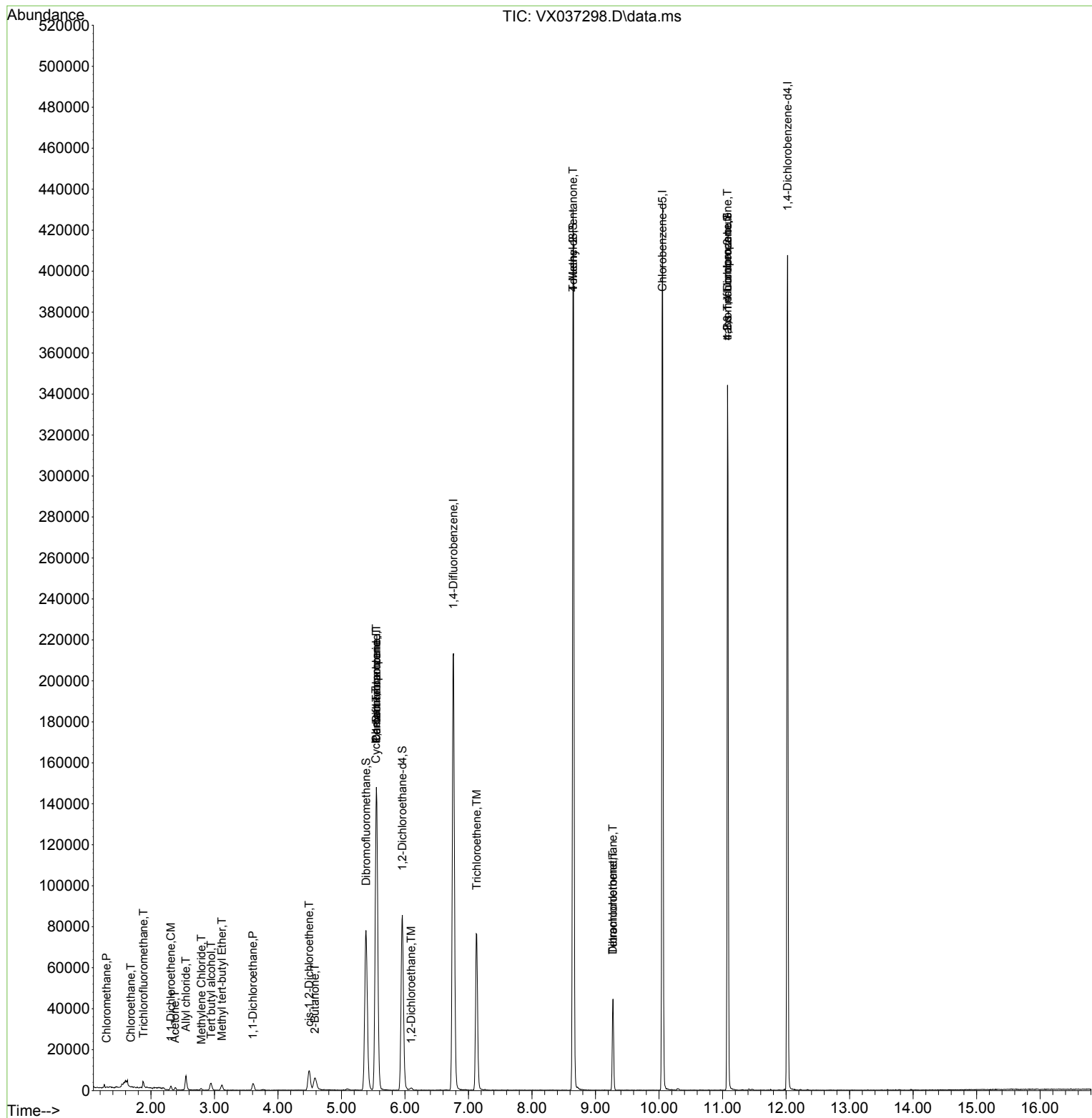
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 139778   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 228192   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 198168   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 86610    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 84640    | 42.002   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 84.000%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 69545    | 46.018   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 92.040%  |
| 50) Toluene-d8                | 8.647  | 98    | 266188   | 48.557   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.120%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 96362    | 44.730   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 89.460%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.300  | 50    | 362      | 0.255    | ug/l # | 43       |
| 6) Chloroethane               | 1.684  | 64    | 237      | 0.260    | ug/l # | 43       |
| 7) Trichlorofluoromethane     | 1.879  | 101   | 1878     | 0.741    | ug/l   | 96       |
| 11) Tert butyl alcohol        | 2.946  | 59    | 2193     | 4.639    | ug/l # | 78       |
| 12) 1,1-Dichloroethene        | 2.312  | 96    | 751      | 0.522    | ug/l   | 89       |
| 14) Allyl chloride            | 2.550  | 41    | 744      | 0.334    | ug/l # | 75       |
| 16) Acetone                   | 2.379  | 43    | 1153     | 1.463    | ug/l # | 88       |
| 19) Methyl tert-butyl Ether   | 3.117  | 73    | 2877     | 0.527    | ug/l   | 100      |
| 20) Methylene Chloride        | 2.794  | 84    | 451      | 0.256    | ug/l # | 82       |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 4116     | 1.436    | ug/l   | 93       |
| 25) 2-Butanone                | 4.580  | 43    | 512      | 0.431    | ug/l # | 51       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 6680     | 3.464    | ug/l   | 83       |
| 31) Cyclohexane               | 5.543  | 56    | 2798     | 1.235    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11011    | 5.128    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 14752    | 6.325    | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 6.098  | 62    | 1262     | 0.523    | ug/l # | 77       |
| 44) Trichloroethene           | 7.128  | 130   | 31496    | 18.038   | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 987      | 0.467    | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.274  | 129   | 8678     | 4.920    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.274  | 164   | 8376     | 5.794    | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 47449    | 25.724   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 47449    | 71.850   | ug/l # | 5        |

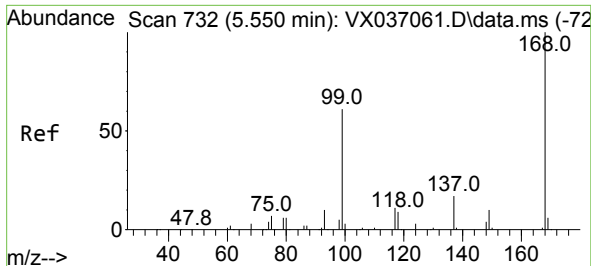
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082823\  
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ClientSampleId :

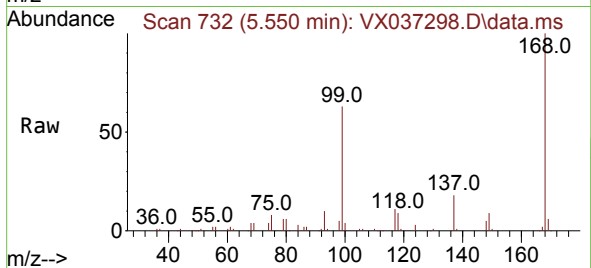
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration



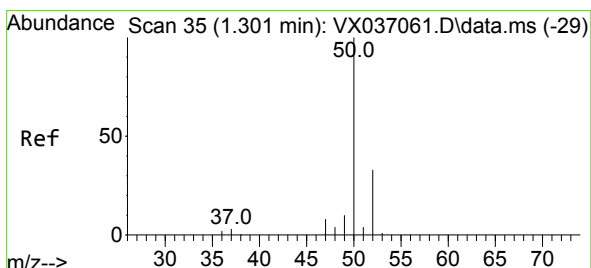
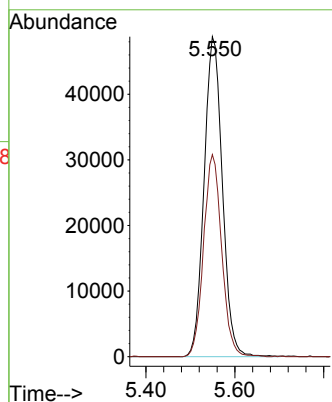
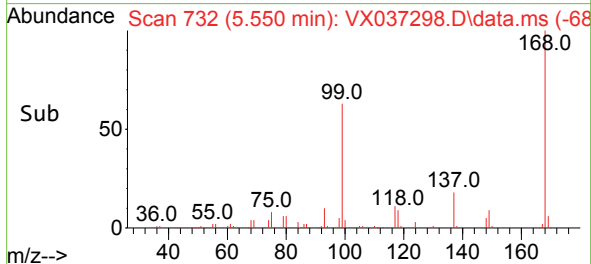


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Instrument :  
MSVOA\_X  
ClientSampleId :

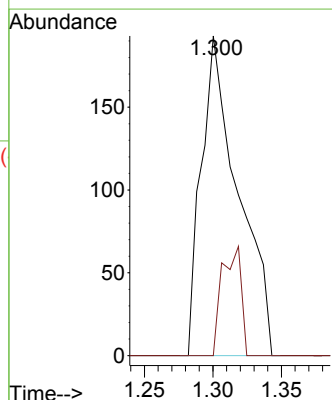
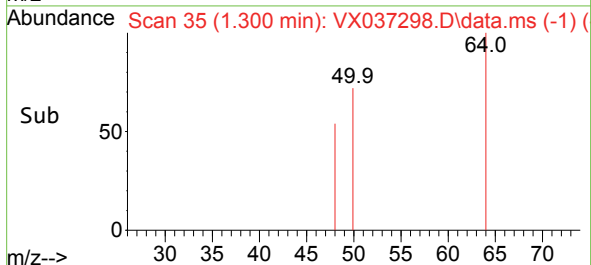
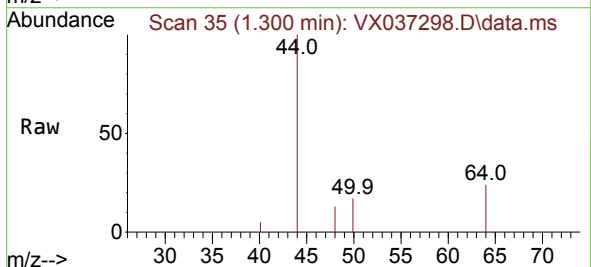


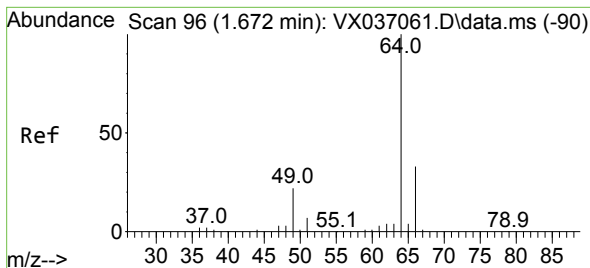
Tgt Ion:168 Resp: 139778  
Ion Ratio Lower Upper  
168 100  
99 63.2 56.6 85.0



#3  
Chloromethane  
Concen: 0.255 ug/l  
RT: 1.300 min Scan# 35  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Tgt Ion: 50 Resp: 362  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#





#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.684 min Scan# 91

Delta R.T. 0.012 min

Lab File: VX037298.D

Acq: 28 Aug 2023 16:36

Instrument :

MSVOA\_X

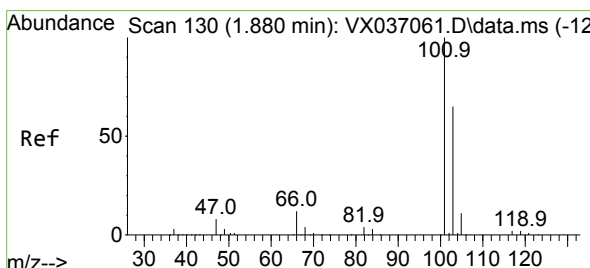
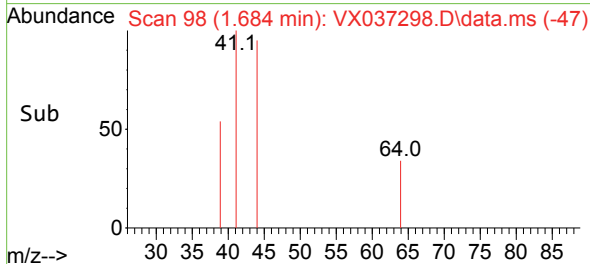
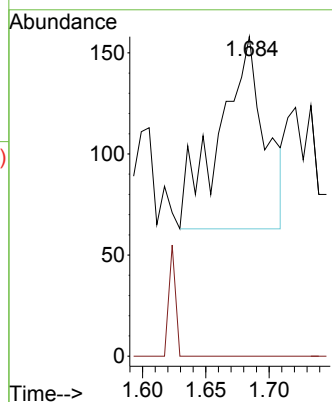
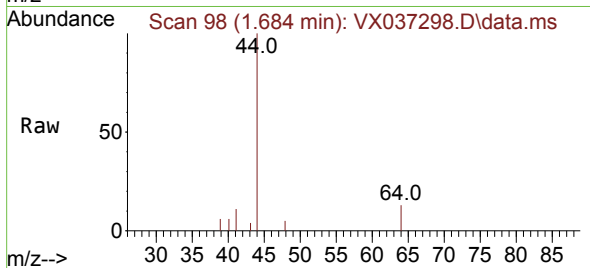
ClientSampleId :

Tgt Ion: 64 Resp: 237

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#7

Trichlorofluoromethane

Concen: 0.741 ug/l

RT: 1.879 min Scan# 130

Delta R.T. -0.001 min

Lab File: VX037298.D

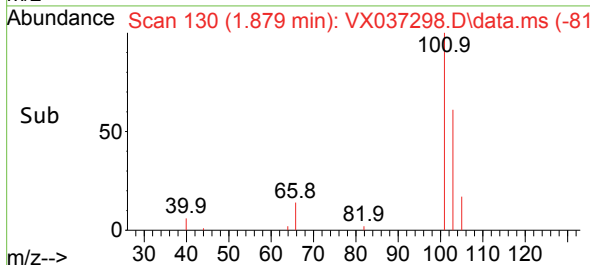
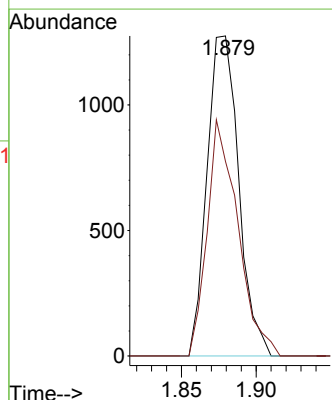
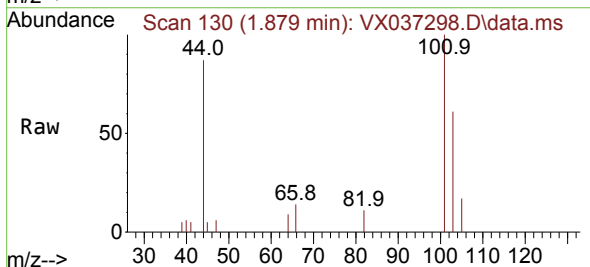
Acq: 28 Aug 2023 16:36

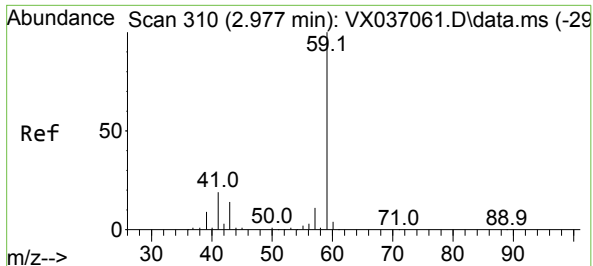
Tgt Ion: 101 Resp: 1878

Ion Ratio Lower Upper

101 100

103 60.8 51.4 77.2





#11

Tert butyl alcohol

Concen: 4.639 ug/l

RT: 2.946 min Scan# 305

Delta R.T. -0.031 min

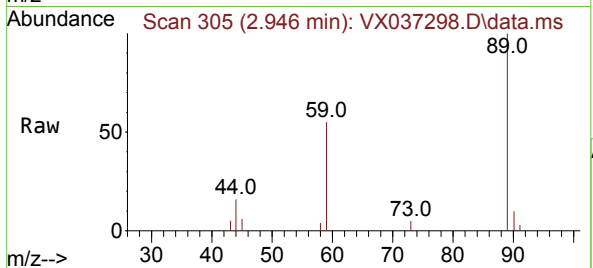
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Acq: 28 Aug 2023 16:36

Instrument :

MSVOA\_X

ClientSampleId :

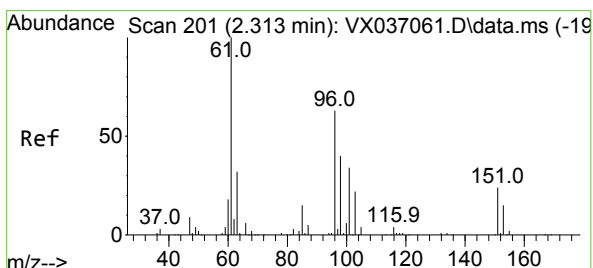
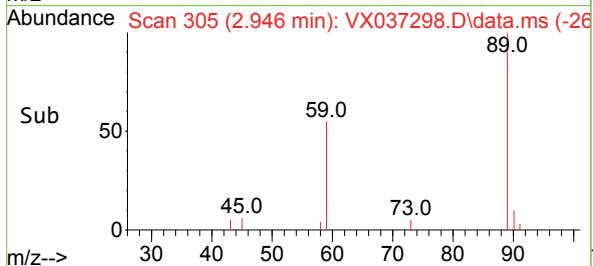
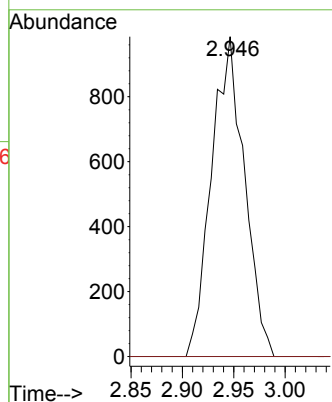


Tgt Ion: 59 Resp: 2193

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#12

1,1-Dichloroethene

Concen: 0.522 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX037298.D

Acq: 28 Aug 2023 16:36

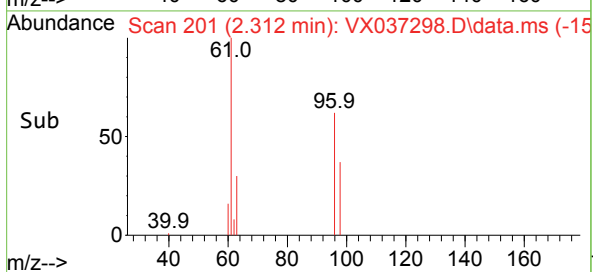
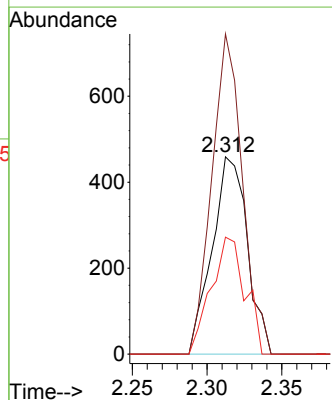
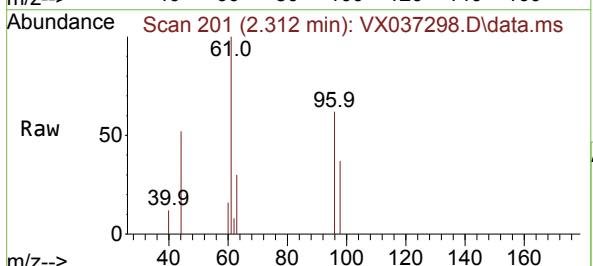
Tgt Ion: 96 Resp: 751

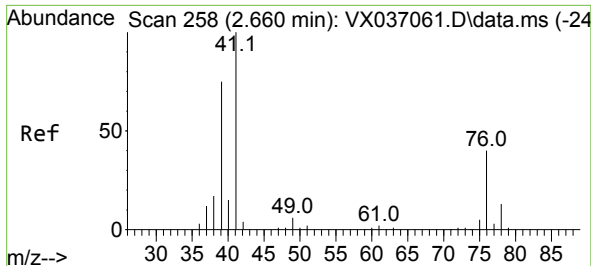
Ion Ratio Lower Upper

96 100

61 162.3 144.6 216.8

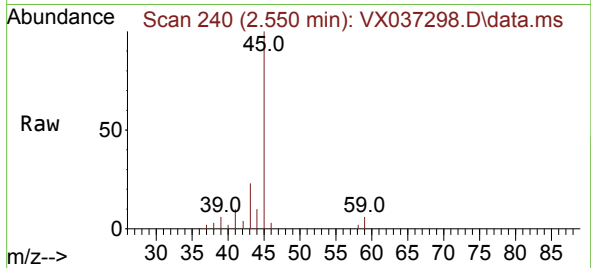
98 59.3 50.4 75.6



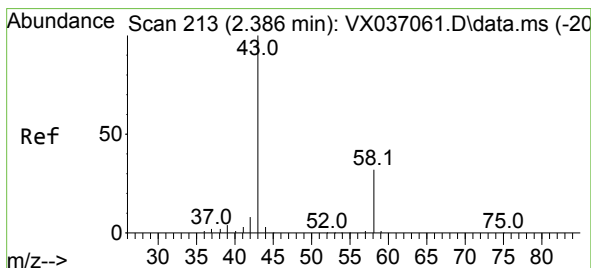
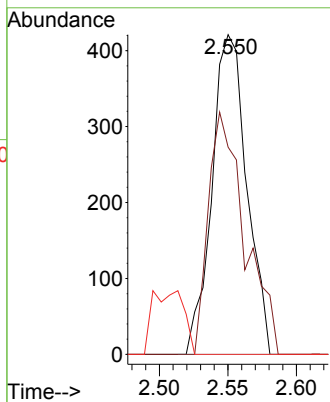
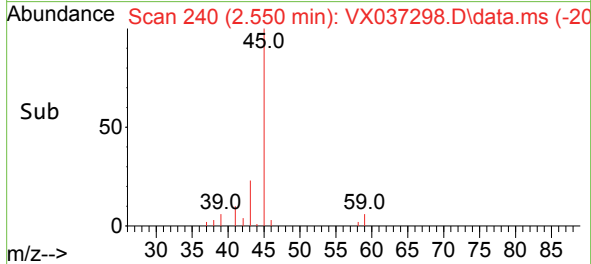


#14  
 Allyl chloride  
 Concen: 0.334 ug/l  
 RT: 2.550 min Scan# 24  
 Delta R.T. -0.110 min  
 Lab File: VX037298.D  
 Acq: 28 Aug 2023 16:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :

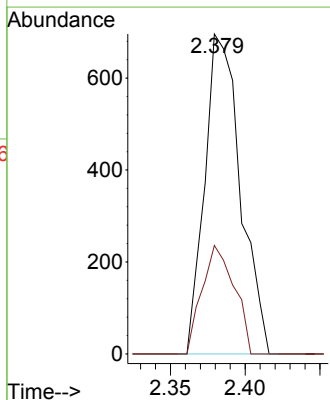
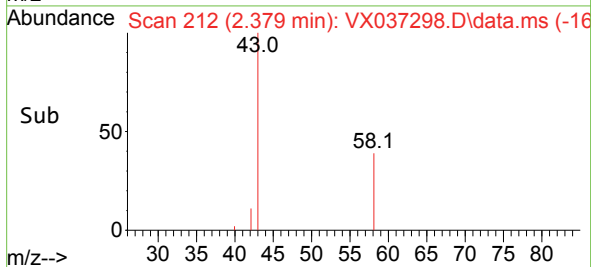
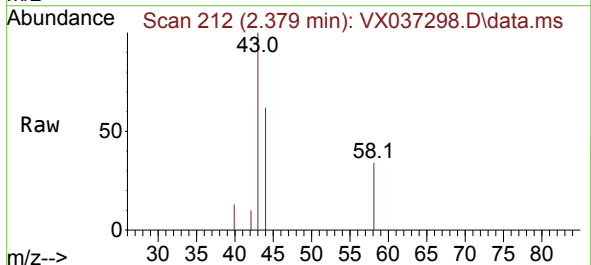


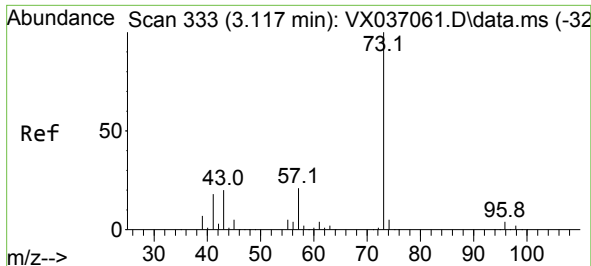
Tgt Ion: 41 Resp: 744  
 Ion Ratio Lower Upper  
 41 100  
 39 79.4 55.8 83.6  
 76 0.0 24.3 36.5#



#16  
 Acetone  
 Concen: 1.463 ug/l  
 RT: 2.379 min Scan# 212  
 Delta R.T. -0.006 min  
 Lab File: VX037298.D  
 Acq: 28 Aug 2023 16:36

Tgt Ion: 43 Resp: 1153  
 Ion Ratio Lower Upper  
 43 100  
 58 33.9 21.9 32.9#

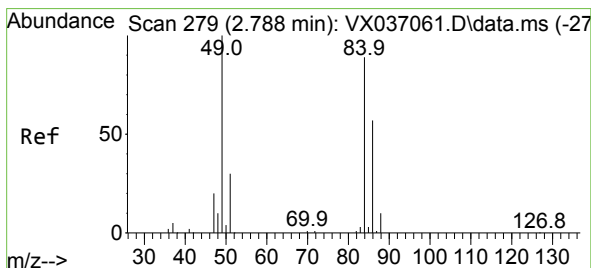
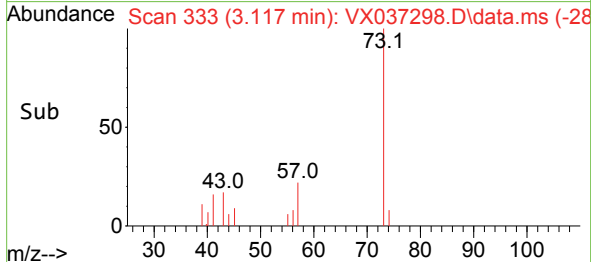
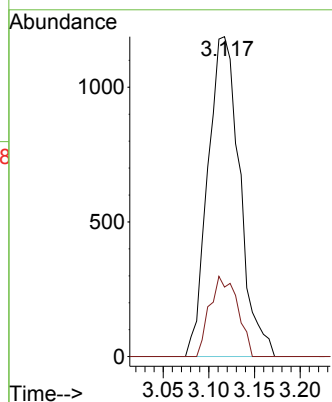
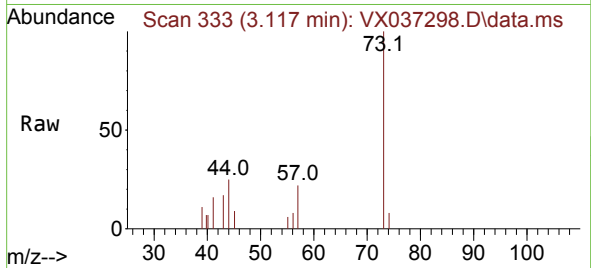




#19  
Methyl tert-butyl Ether  
Concen: 0.527 ug/l  
RT: 3.117 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

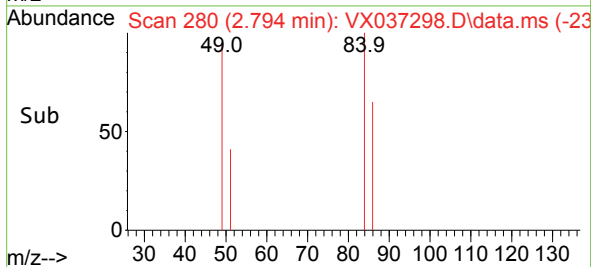
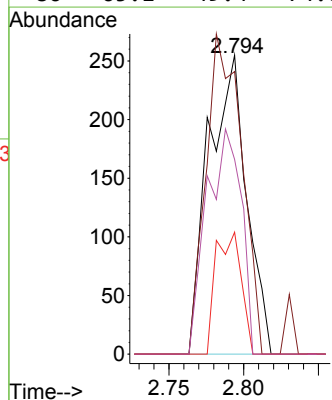
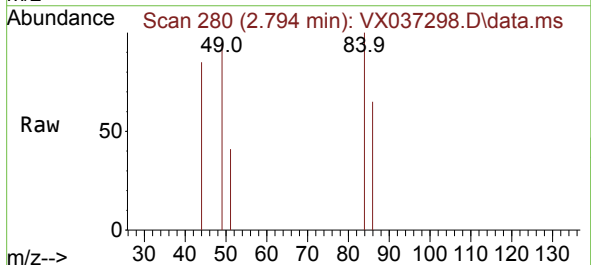
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MSVOA\_X  
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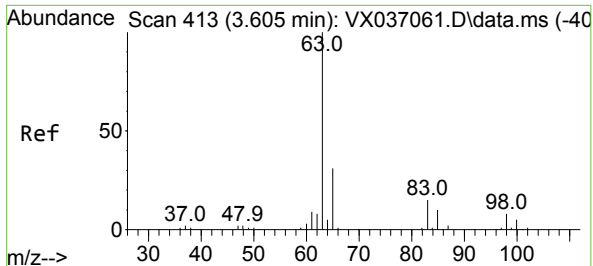
Tgt Ion: 73 Resp: 2877  
Ion Ratio Lower Upper  
73 100  
57 21.7 17.3 25.9



#20  
Methylene Chloride  
Concen: 0.256 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

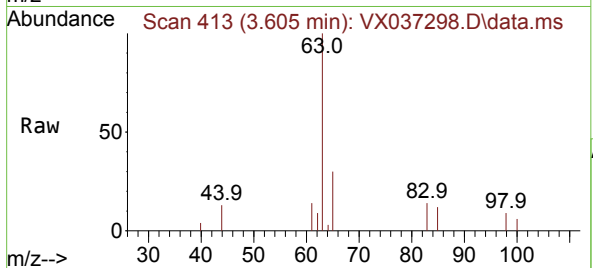
Tgt Ion: 84 Resp: 451  
Ion Ratio Lower Upper  
84 100  
49 94.5 103.6 155.4#  
51 40.8 33.8 50.6  
86 65.1 49.4 74.0



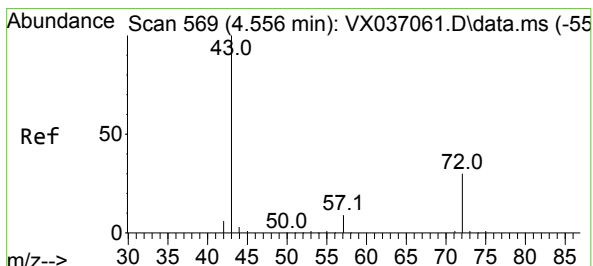
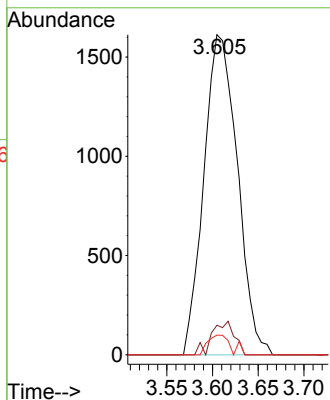
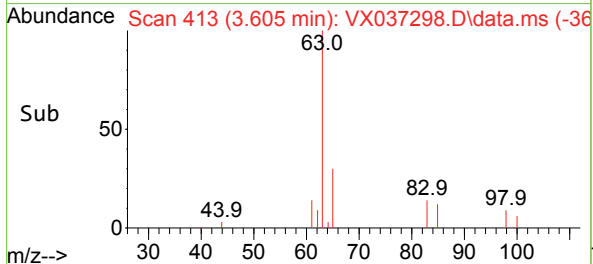


#24  
1,1-Dichloroethane  
Concen: 1.436 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Instrument :  
MSVOA\_X  
ClientSampleId :

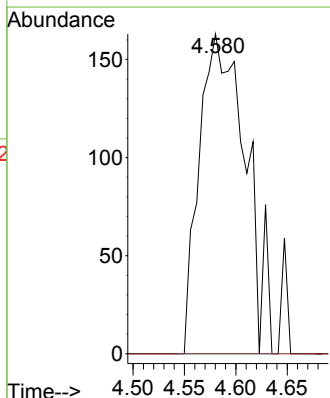
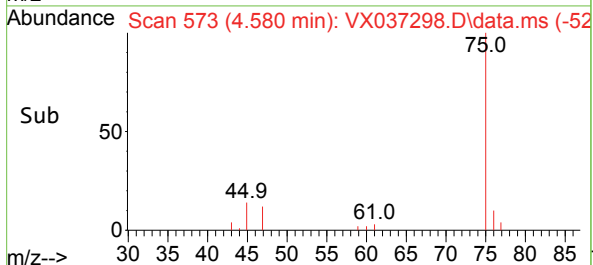
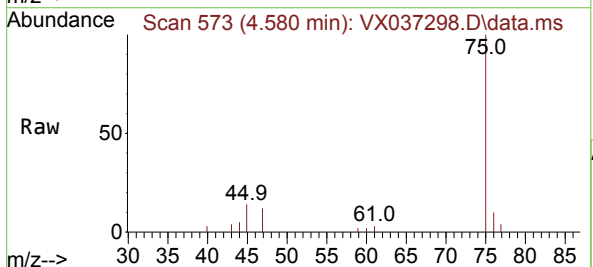


Tgt Ion: 63 Resp: 4116  
Ion Ratio Lower Upper  
63 100  
98 9.2 3.3 9.8  
100 6.1 2.1 6.5

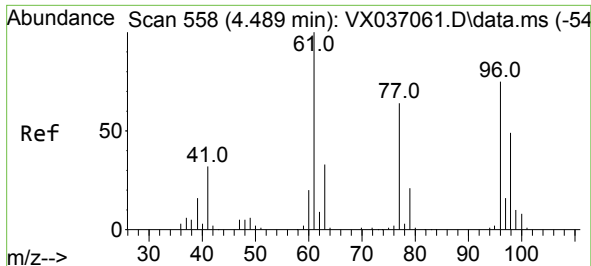


#25  
2-Butanone  
Concen: 0.431 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.024 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Tgt Ion: 43 Resp: 512  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#





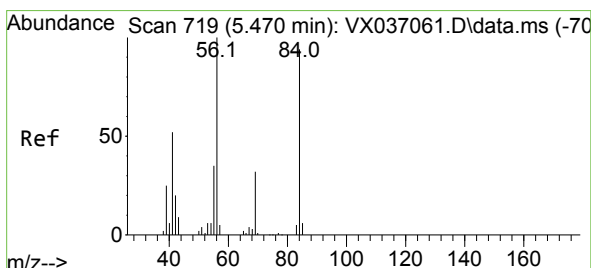
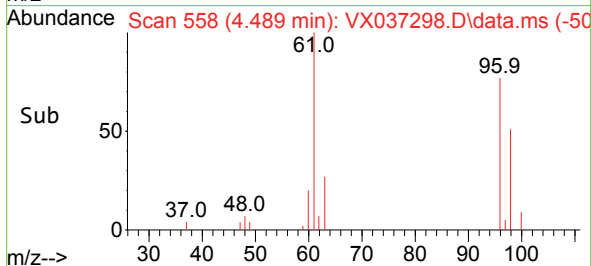
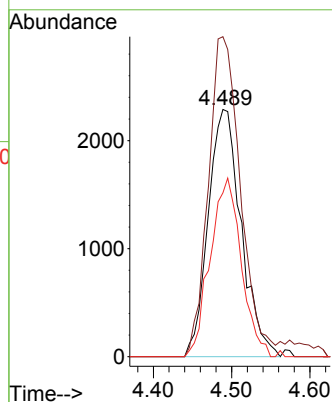
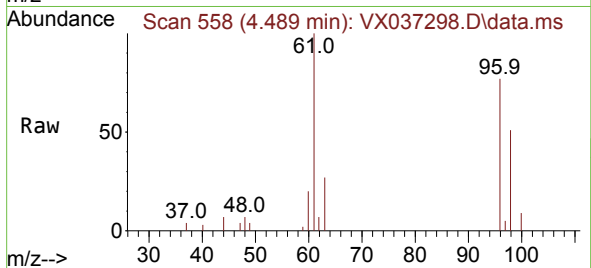


#27  
 cis-1,2-Dichloroethene  
 Concen: 3.464 ug/l  
 RT: 4.489 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VX037298.D  
 Acq: 28 Aug 2023 16:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 96 Resp: 6680  

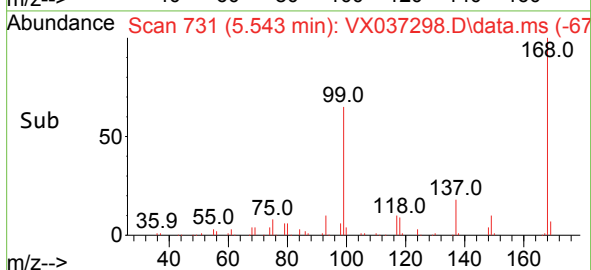
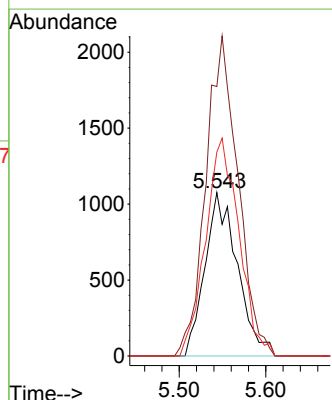
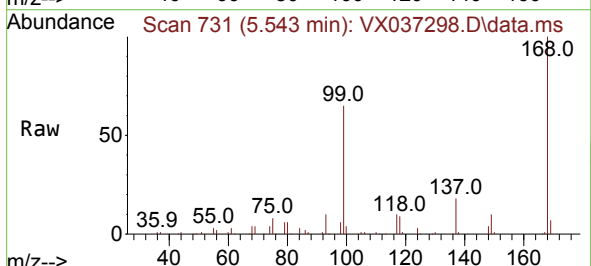
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 126.4 | 0.0   | 312.2 |
| 98  | 68.1  | 0.0   | 129.0 |

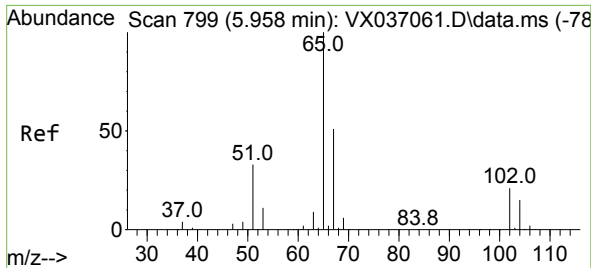


#31  
 Cyclohexane  
 Concen: 1.235 ug/l  
 RT: 5.543 min Scan# 731  
 Delta R.T. 0.073 min  
 Lab File: VX037298.D  
 Acq: 28 Aug 2023 16:36

Tgt Ion: 56 Resp: 2798  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 164.9 | 23.4  | 35.2# |
| 84  | 124.7 | 65.9  | 98.9# |

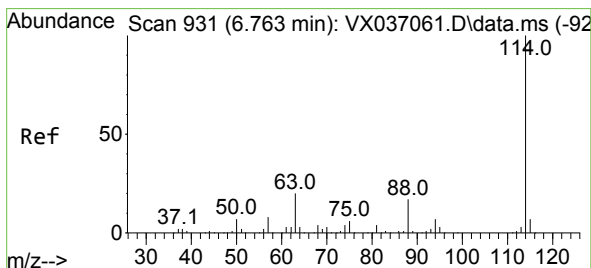
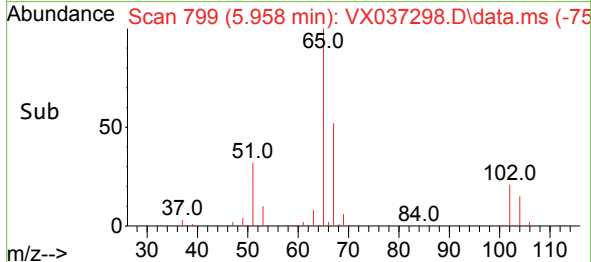
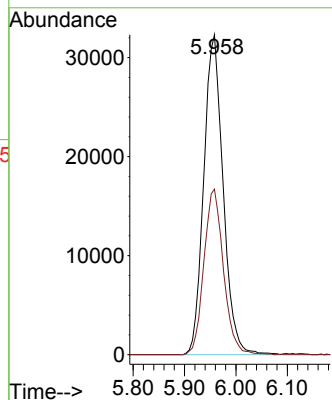
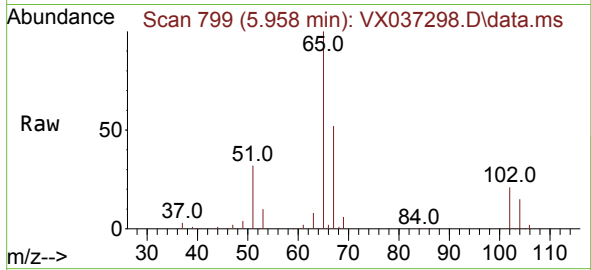




#33  
1,2-Dichloroethane-d4  
Concen: 42.002 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

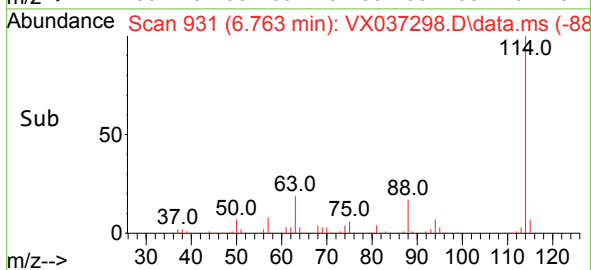
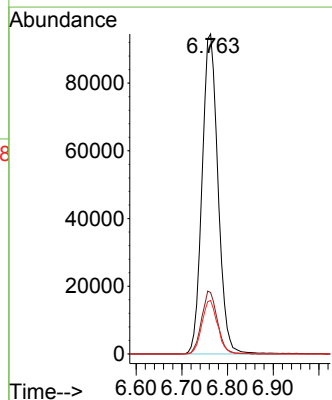
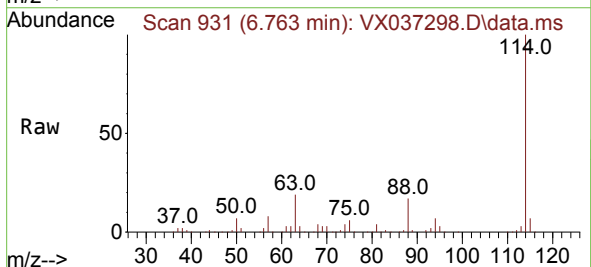
Instrument :  
MSVOA\_X  
ClientSampleId :

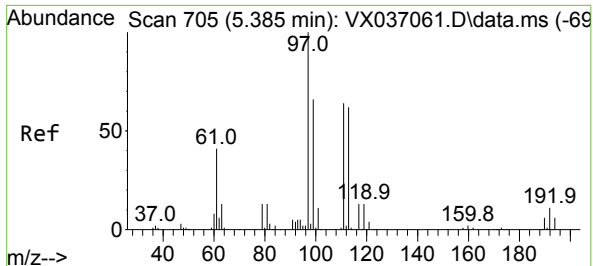
Tgt Ion: 65 Resp: 84640  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

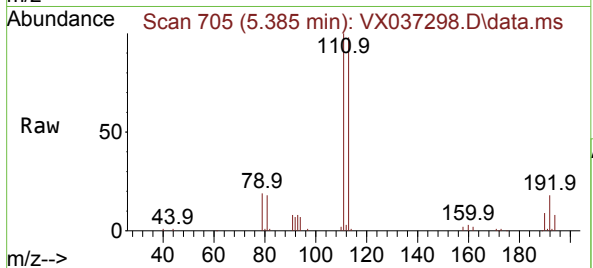
Tgt Ion: 114 Resp: 228192  
Ion Ratio Lower Upper  
114 100  
63 19.2 0.0 45.0  
88 16.7 0.0 36.6



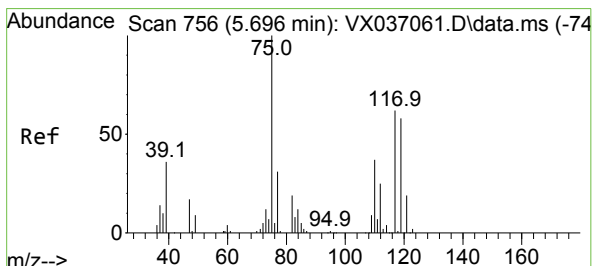
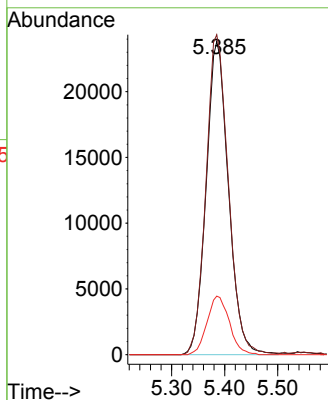
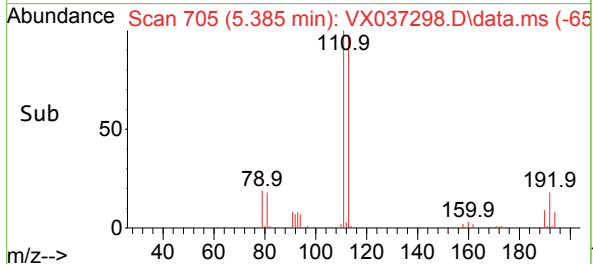


#35  
Dibromofluoromethane  
Concen: 46.018 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Instrument :  
MSVOA\_X  
ClientSampleId :

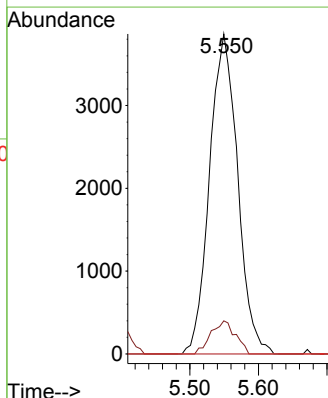
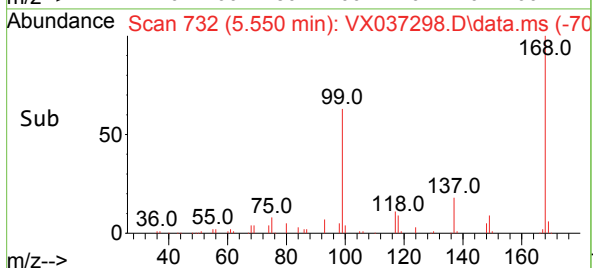
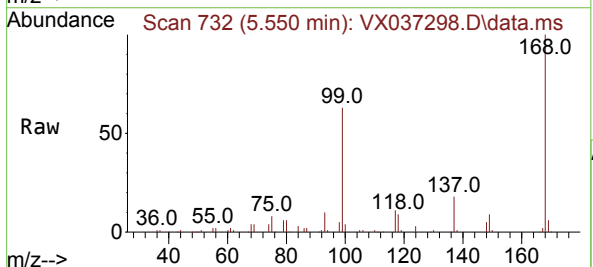


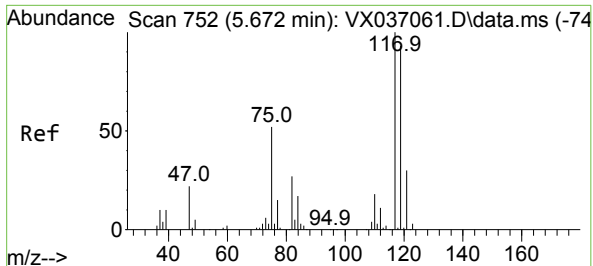
Tgt Ion:113 Resp: 69545  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.9 124.3  
192 18.7 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 5.128 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.147 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

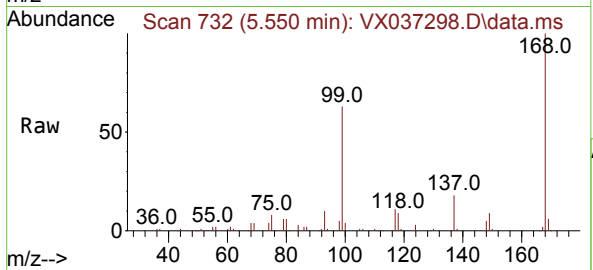
Tgt Ion: 75 Resp: 11011  
Ion Ratio Lower Upper  
75 100  
110 9.0 17.0 50.9#  
77 0.0 24.7 37.1#



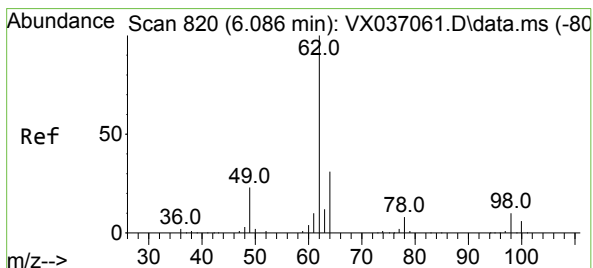
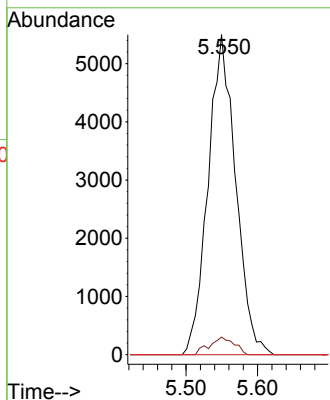
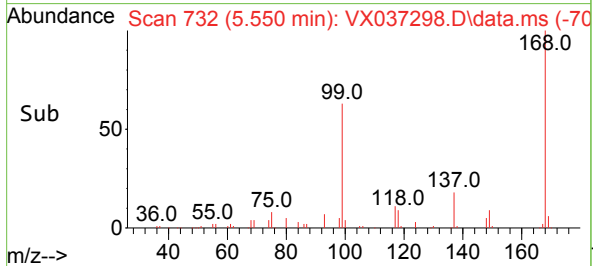


#38  
Carbon Tetrachloride  
Concen: 6.325 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Instrument :  
MSVOA\_X  
ClientSampleId :

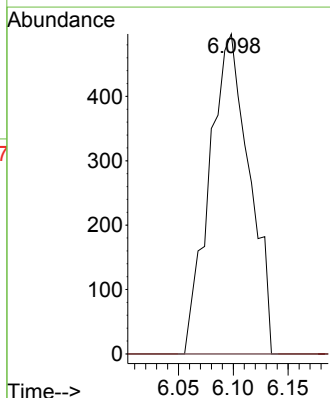
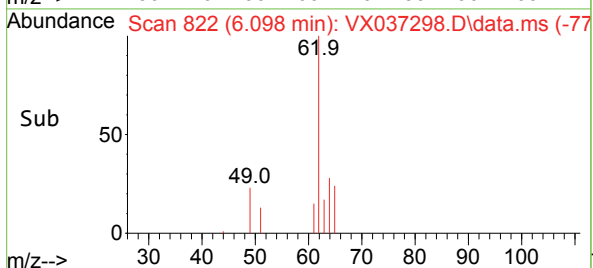
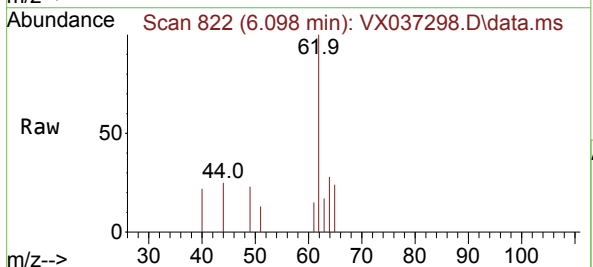


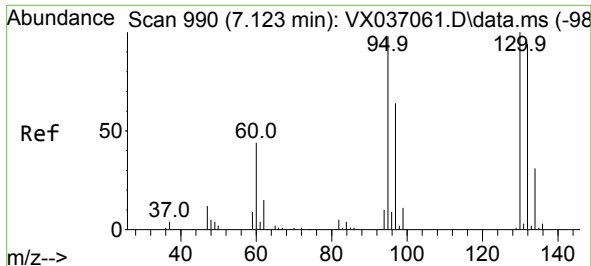
Tgt Ion:117 Resp: 14752  
Ion Ratio Lower Upper  
117 100  
119 5.5 78.2 117.2#  
121 0.0 24.4 36.6#



#42  
1,2-Dichloroethane  
Concen: 0.523 ug/l  
RT: 6.098 min Scan# 822  
Delta R.T. 0.012 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Tgt Ion: 62 Resp: 1262  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 16.0

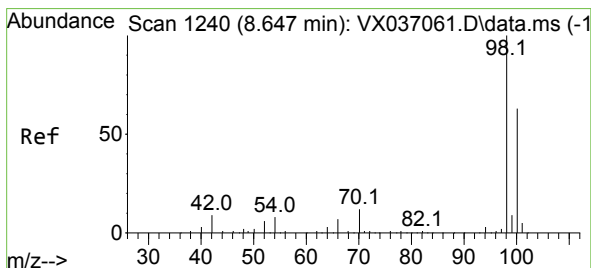
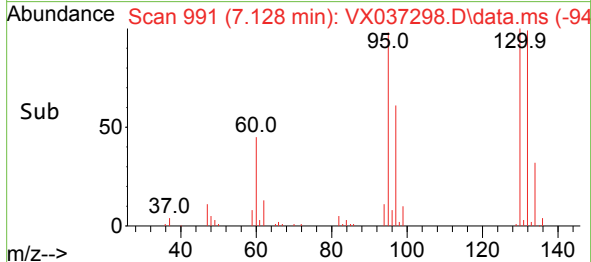
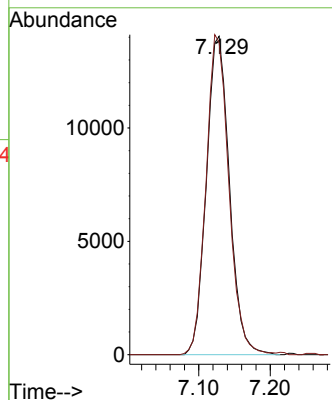
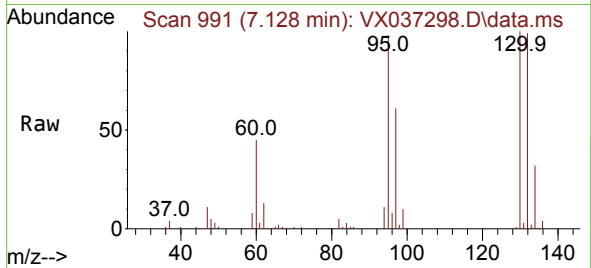




#44  
Trichloroethene  
Concen: 18.038 ug/l  
RT: 7.128 min Scan# 990  
Delta R.T. 0.006 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

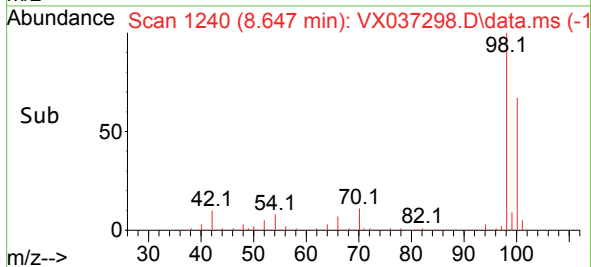
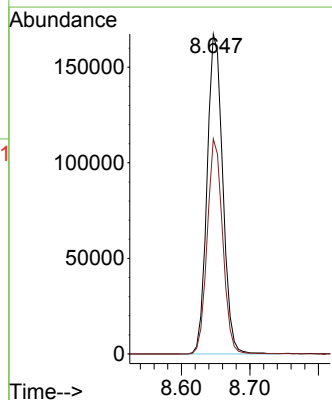
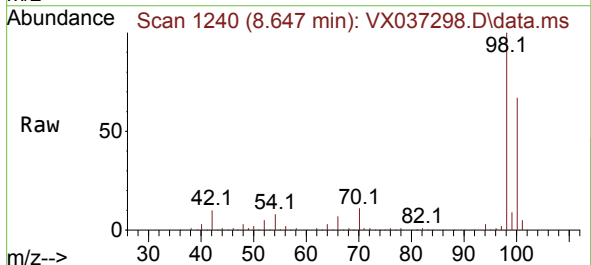
Instrument :  
MSVOA\_X  
ClientSampleId :

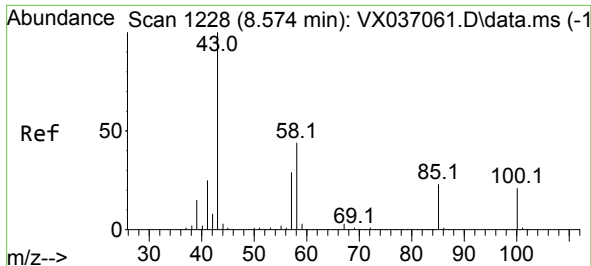
Tgt Ion:130 Resp: 31496  
Ion Ratio Lower Upper  
130 100  
95 98.1 0.0 204.4



#50  
Toluene-d8  
Concen: 48.557 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Tgt Ion: 98 Resp: 266188  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.1 79.7

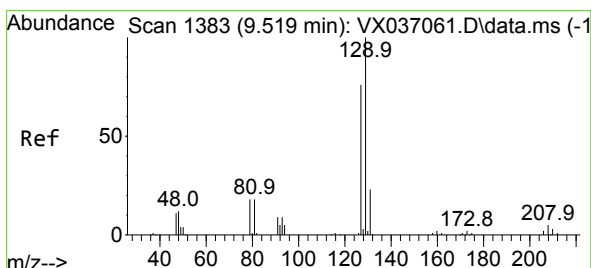
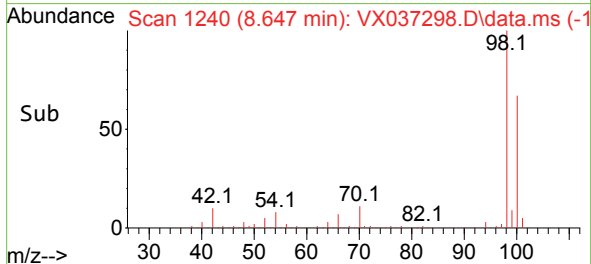
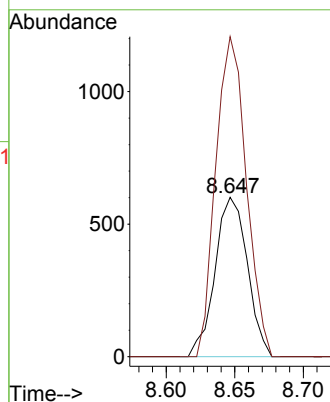
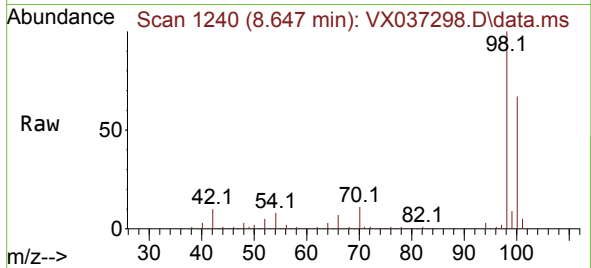




#51  
4-Methyl-2-Pentanone  
Concen: 0.467 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

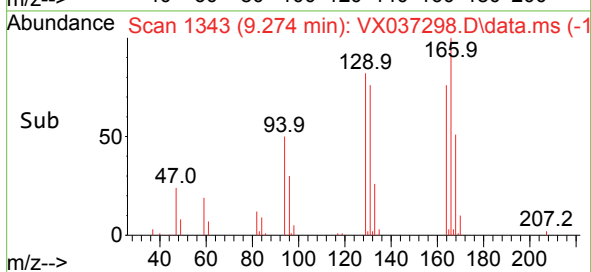
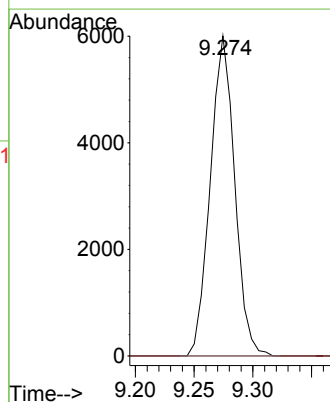
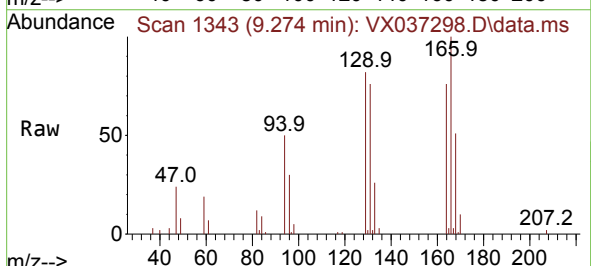
Instrument :  
MSVOA\_X  
ClientSampleId :

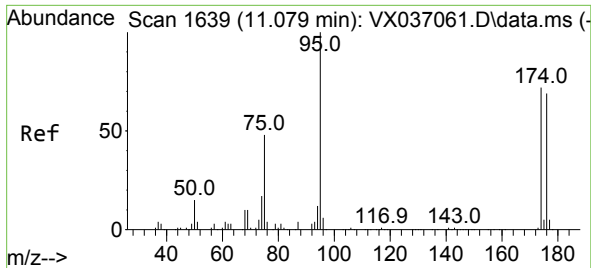
Tgt Ion: 43 Resp: 987  
Ion Ratio Lower Upper  
43 100  
58 189.7 30.4 45.6#



#60  
Dibromochloromethane  
Concen: 4.920 ug/l  
RT: 9.274 min Scan# 1343  
Delta R.T. -0.244 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Tgt Ion: 129 Resp: 8678  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#

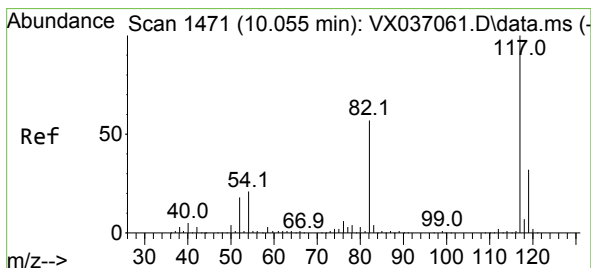
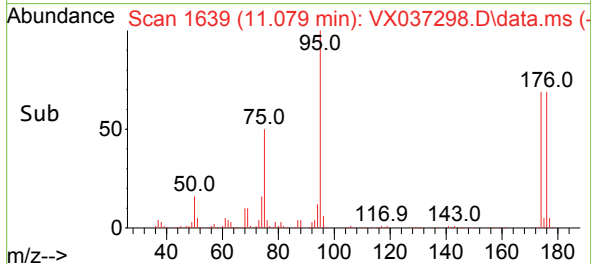
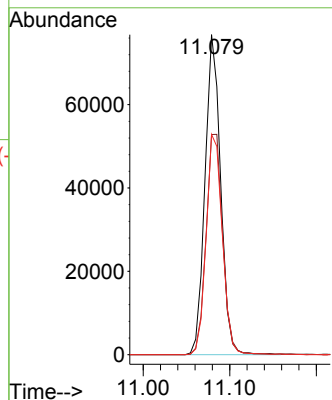
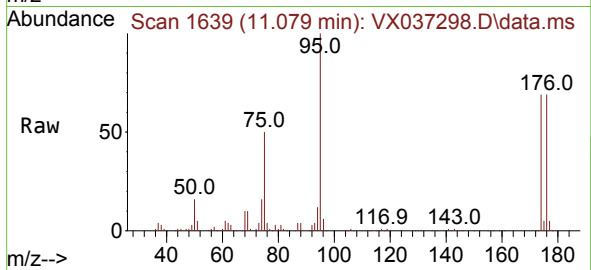




#62  
4-Bromofluorobenzene  
Concen: 44.730 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

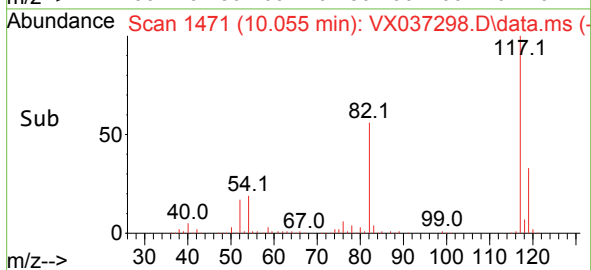
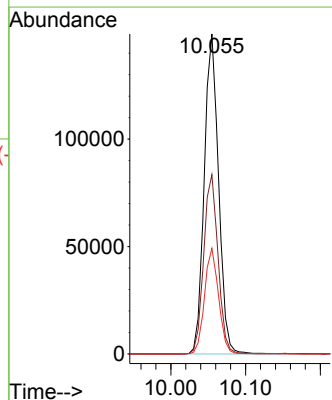
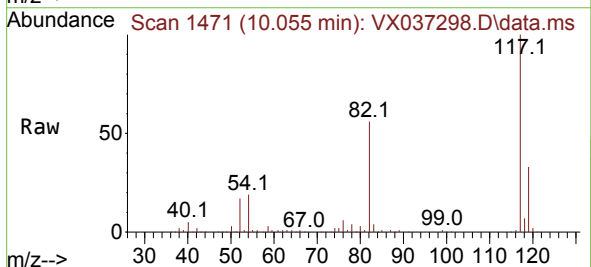
Instrument :  
MSVOA\_X  
ClientSampleId :

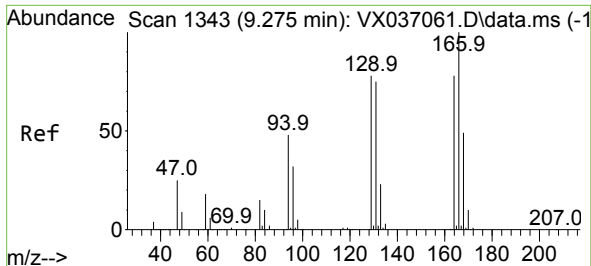
Tgt Ion: 95 Resp: 96362  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 135.6  
176 71.3 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

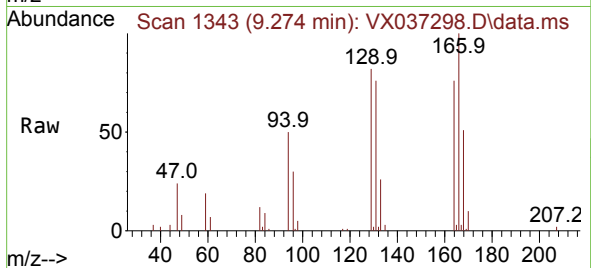
Tgt Ion: 117 Resp: 198168  
Ion Ratio Lower Upper  
117 100  
82 56.0 46.2 69.4  
119 33.0 25.5 38.3



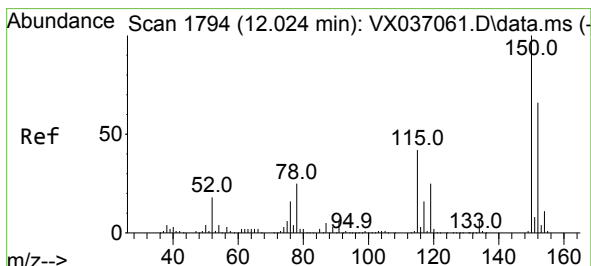
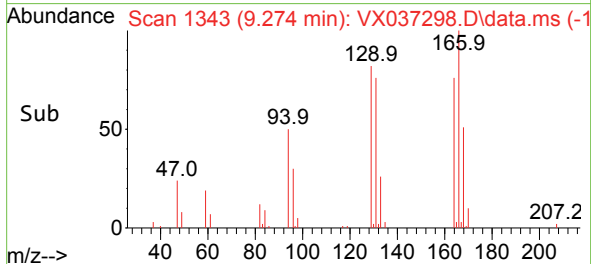
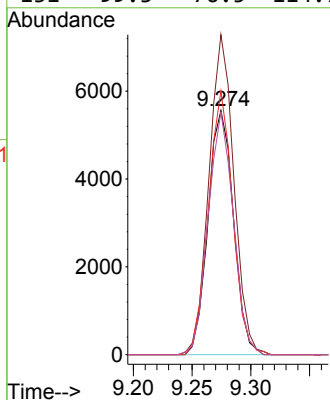


#64  
Tetrachloroethene  
Concen: 5.794 ug/l  
RT: 9.274 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Instrument :  
MSVOA\_X  
ClientSampleId :

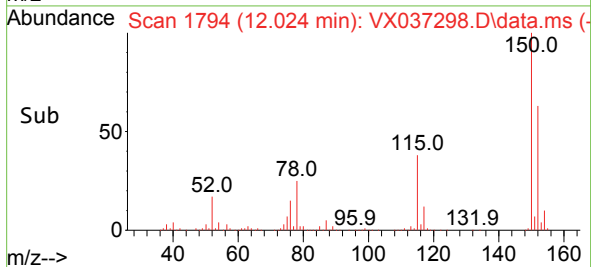
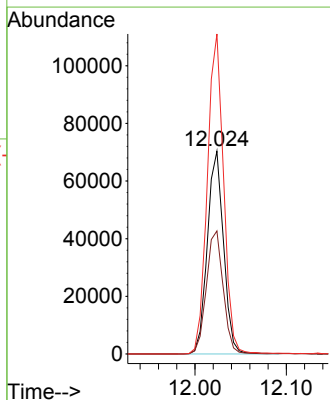
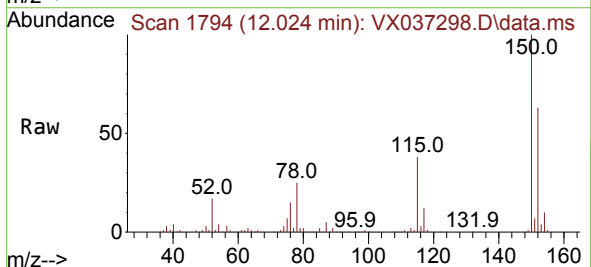


Tgt Ion:164 Resp: 8376  
Ion Ratio Lower Upper  
164 100  
166 131.1 102.7 154.1  
129 108.0 80.4 120.6  
131 99.3 76.5 114.7

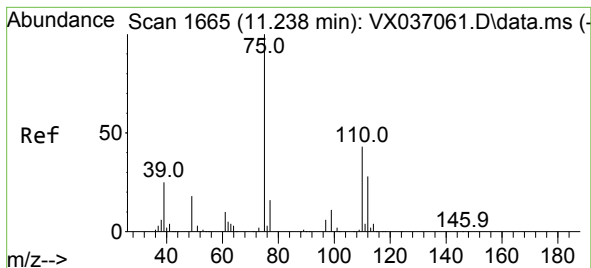


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX037298.D  
Acq: 28 Aug 2023 16:36

Tgt Ion:152 Resp: 86610  
Ion Ratio Lower Upper  
152 100  
115 62.9 43.3 129.9  
150 158.4 0.0 345.0







#76

1,2,3-Trichloropropane

Concen: 25.724 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX037298.D

Acq: 28 Aug 2023 16:36

Instrument :

MSVOA\_X

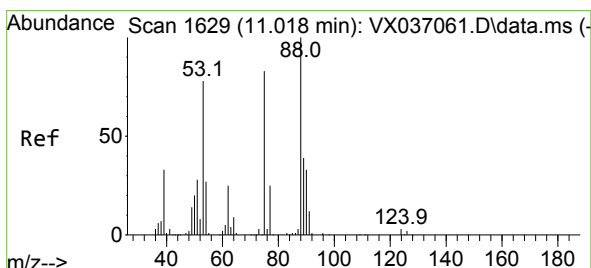
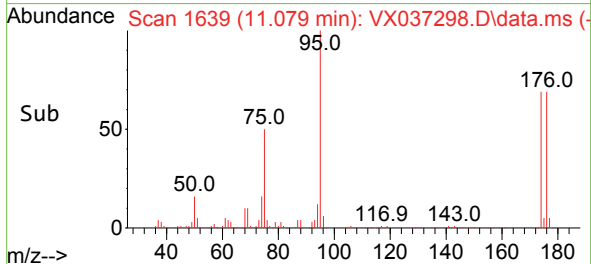
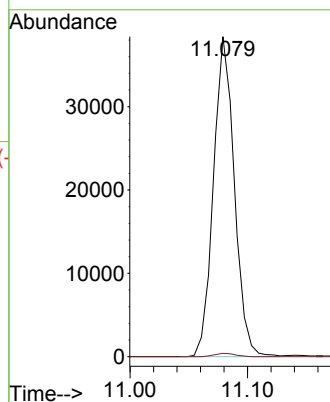
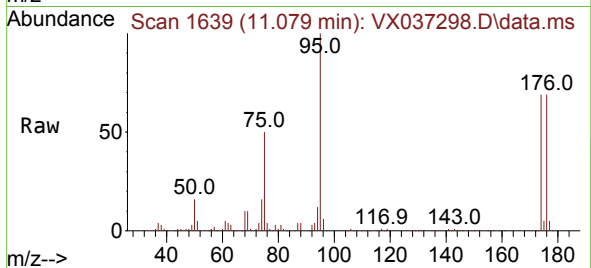
ClientSampleId :

Tgt Ion: 75 Resp: 47449

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.850 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037298.D

Acq: 28 Aug 2023 16:36

Tgt Ion: 75 Resp: 47449

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

