

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111823\  
 Data File : VX038941.D  
 Acq On : 18 Nov 2023 20:09  
 Operator : JC/MD  
 Sample : 05404-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 20 04:40:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.556  | 168  | 103475   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 212390   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 213608   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 103700   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 5.952  | 65    | 83560    | 50.116   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | = 100.240% |      |
| 35) Dibromofluoromethane    | 5.385  | 113   | 67549    | 44.037   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 88.080%  |      |
| 50) Toluene-d8              | 8.647  | 98    | 269759   | 45.964   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | = 91.920%# |      |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 112868   | 48.042   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 96.080%  |      |

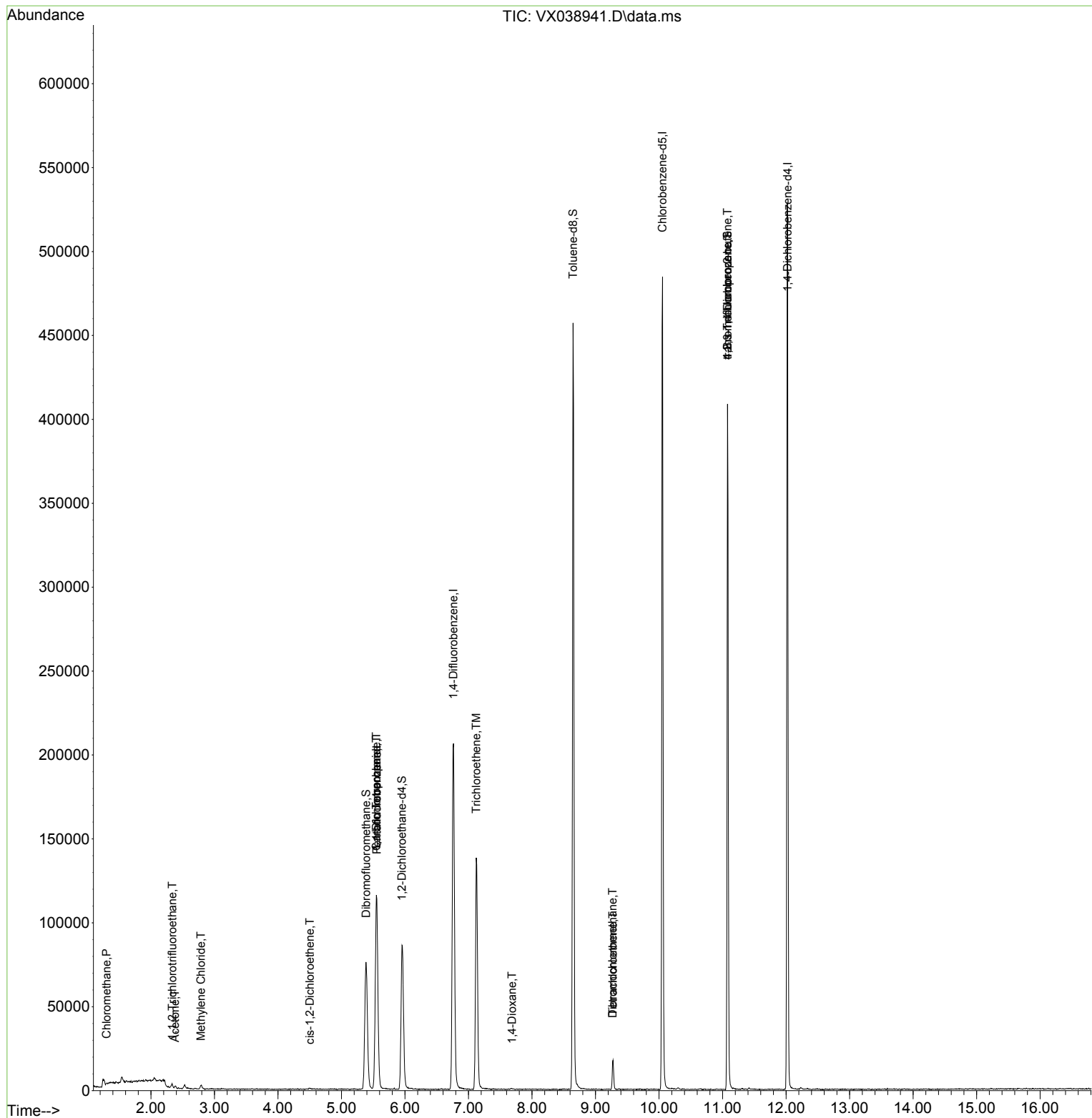
|                               |        |     |        |        |        |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| Target Compounds              |        |     | Qvalue |        |        |    |
| 3) Chloromethane              | 1.301  | 50  | 380    | 0.241  | ug/l # | 74 |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337  | 101 | 884    | 0.692  | ug/l # | 93 |
| 16) Acetone                   | 2.380  | 43  | 1406   | 1.584  | ug/l # | 89 |
| 20) Methylene Chloride        | 2.788  | 84  | 1020   | 0.637  | ug/l   | 84 |
| 27) cis-1,2-Dichloroethene    | 4.501  | 96  | 399    | 0.241  | ug/l   | 41 |
| 36) 1,1-Dichloropropene       | 5.550  | 75  | 9610   | 4.371  | ug/l # | 51 |
| 38) Carbon Tetrachloride      | 5.550  | 117 | 11420  | 5.620  | ug/l # | 17 |
| 44) Trichloroethene           | 7.123  | 130 | 51844  | 32.756 | ug/l   | 94 |
| 49) 1,4-Dioxane               | 7.684  | 88  | 408    | 9.496  | ug/l # | 96 |
| 60) Dibromochloromethane      | 9.269  | 129 | 3354   | 1.959  | ug/l # | 11 |
| 64) Tetrachloroethene         | 9.275  | 164 | 3032   | 2.284  | ug/l   | 95 |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 59919  | 23.159 | ug/l # | 39 |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 59919  | 51.369 | ug/l # | 5  |
| -----                         |        |     |        |        |        |    |

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

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MSVOA\_X  
ClientSampleId :

Quant Time: Nov 20 04:40:14 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 2023  
Response via : Initial Calibration

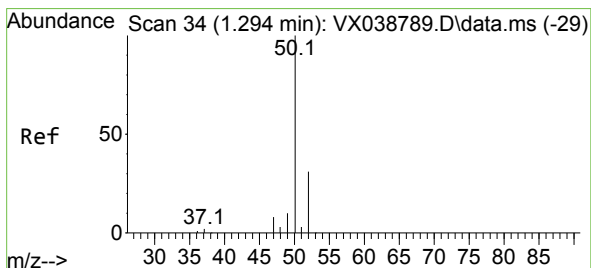
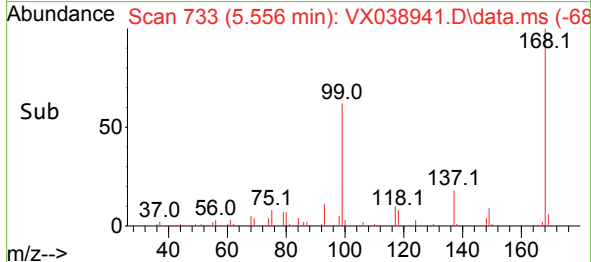
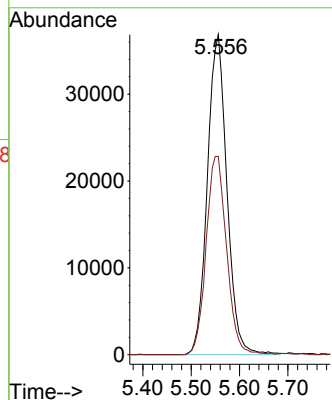
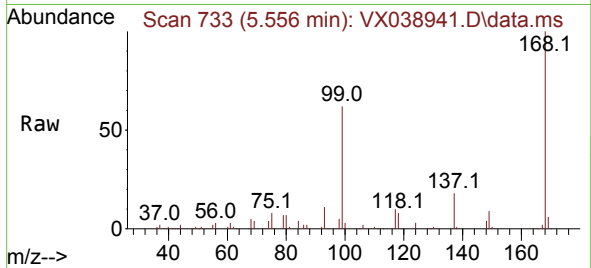




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

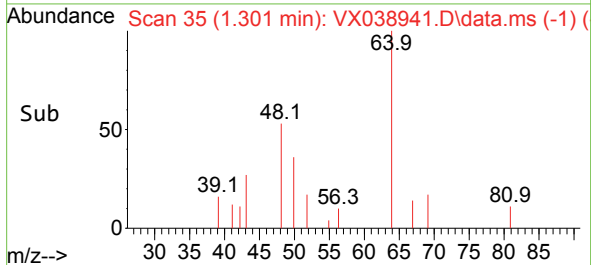
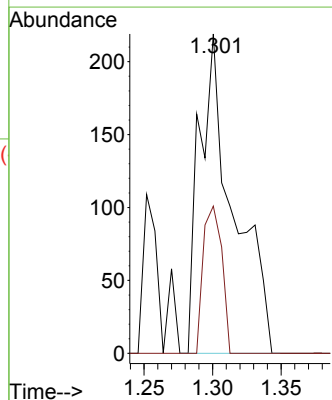
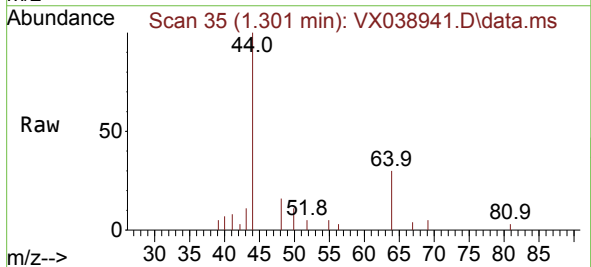
Instrument :  
MSVOA\_X  
ClientSampleId :

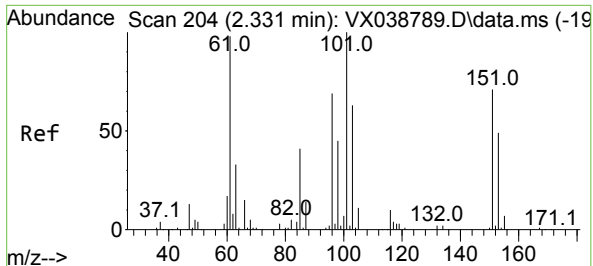
Tgt Ion:168 Resp: 103475  
Ion Ratio Lower Upper  
168 100  
99 61.9 56.6 85.0



#3  
Chloromethane  
Concen: 0.241 ug/l  
RT: 1.301 min Scan# 35  
Delta R.T. 0.007 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Tgt Ion: 50 Resp: 380  
Ion Ratio Lower Upper  
50 100  
52 46.1 25.5 38.3#

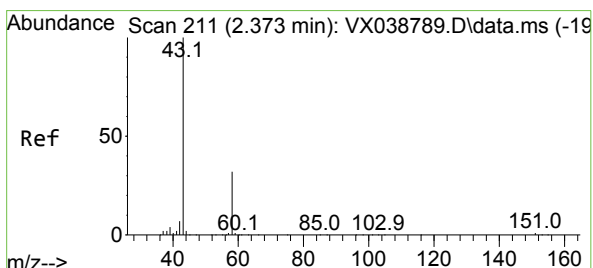
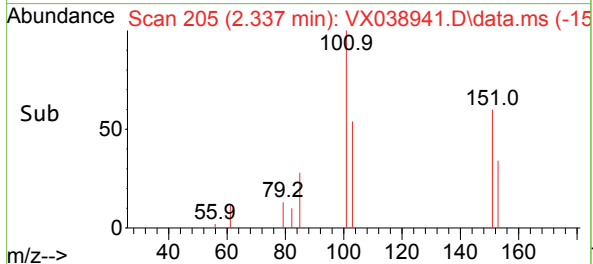
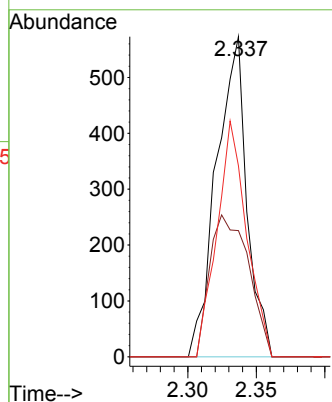
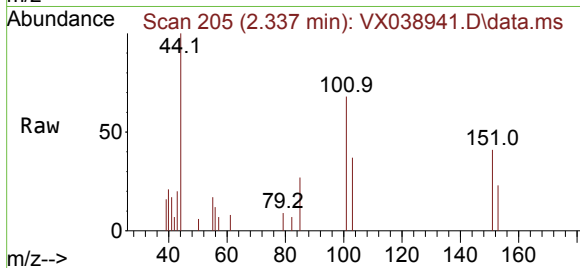




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.692 ug/l  
RT: 2.337 min Scan# 204  
Delta R.T. 0.006 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

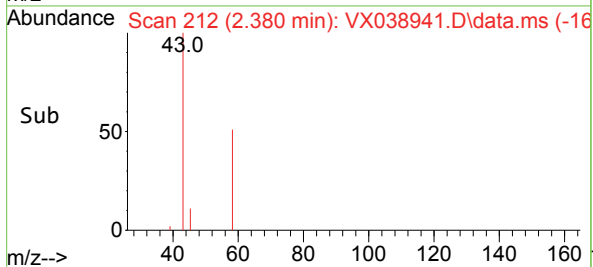
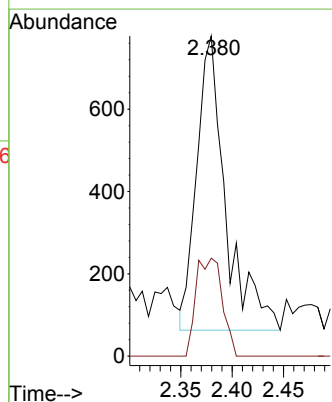
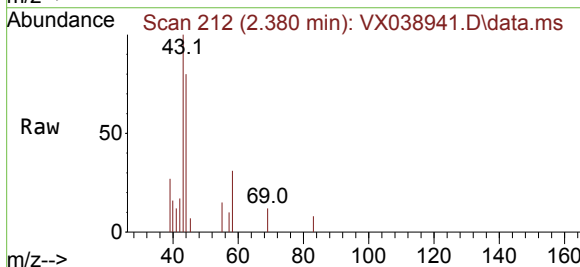
Instrument :  
MSVOA\_X  
ClientSampleId :

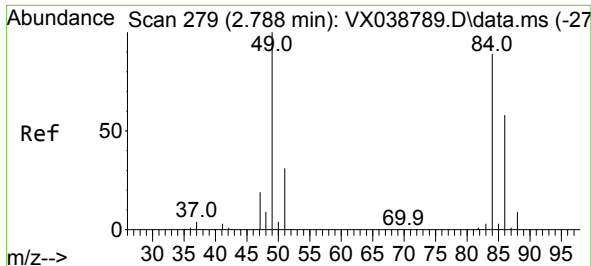
Tgt Ion:101 Resp: 884  
Ion Ratio Lower Upper  
101 100  
85 56.7 37.0 55.6#  
151 71.9 58.6 87.8



#16  
Acetone  
Concen: 1.584 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

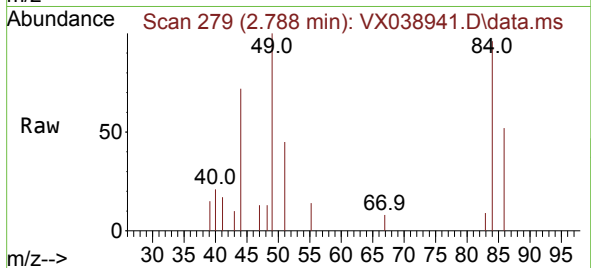
Tgt Ion: 43 Resp: 1406  
Ion Ratio Lower Upper  
43 100  
58 33.3 21.9 32.9#





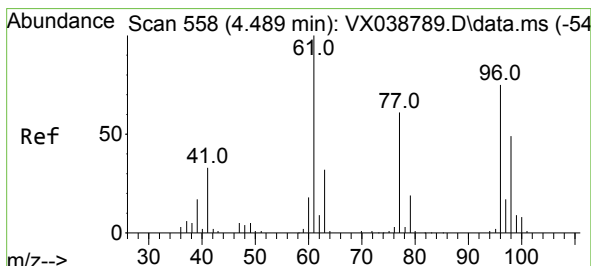
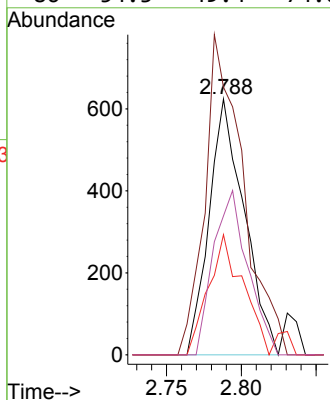
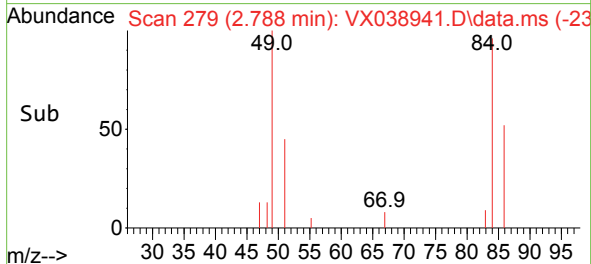
#20  
Methylene Chloride  
Concen: 0.637 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 1020

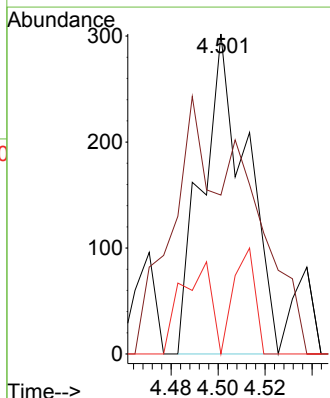
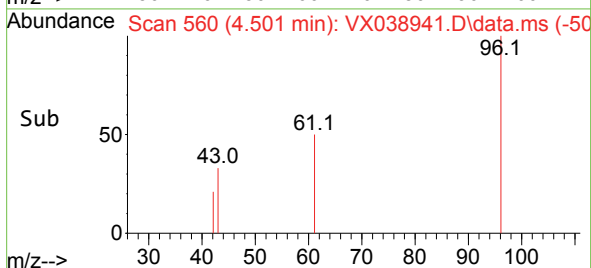
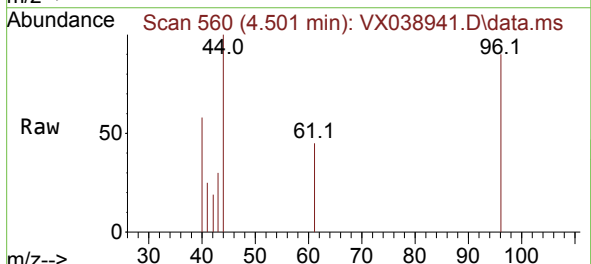
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 104.6 | 103.6 | 155.4 |
| 51  | 47.0  | 33.8  | 50.6  |
| 86  | 54.3  | 49.4  | 74.0  |



#27  
cis-1,2-Dichloroethene  
Concen: 0.241 ug/l  
RT: 4.501 min Scan# 560  
Delta R.T. 0.012 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Tgt Ion: 96 Resp: 399

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 78.2  | 0.0   | 312.2 |
| 98  | 19.5  | 0.0   | 129.0 |





#33

1,2-Dichloroethane-d4

Concen: 50.116 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038941.D

Acq: 18 Nov 2023 20:09

Instrument :

MSVOA\_X

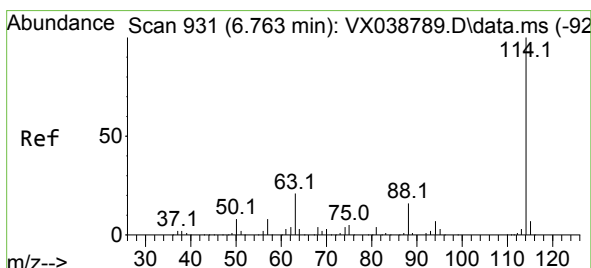
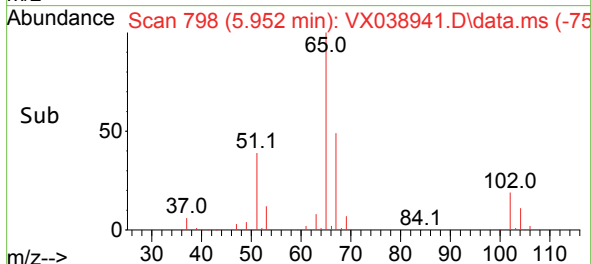
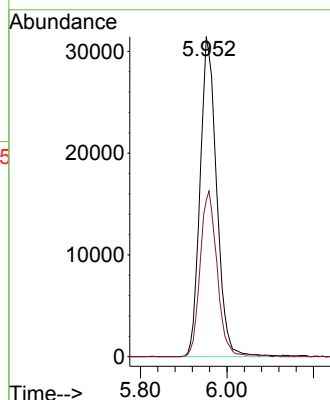
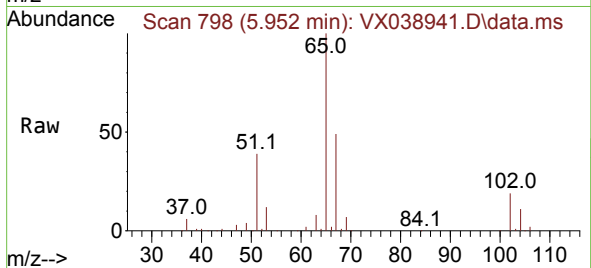
ClientSampleId :

Tgt Ion: 65 Resp: 83560

Ion Ratio Lower Upper

65 100

67 52.7 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: VX038941.D

Acq: 18 Nov 2023 20:09

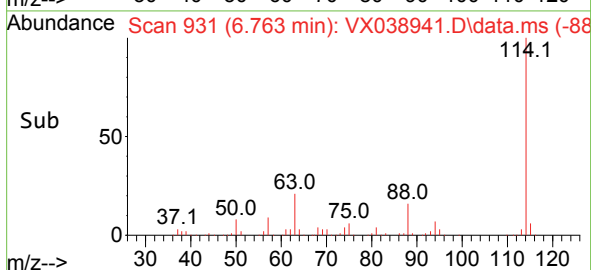
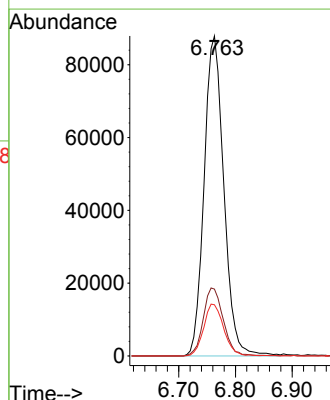
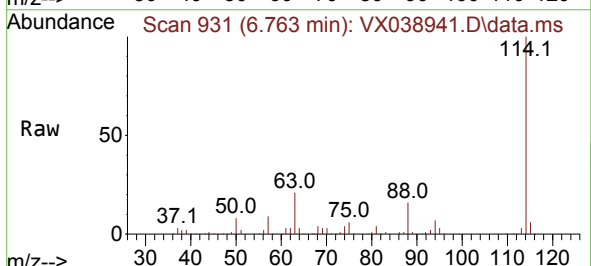
Tgt Ion:114 Resp: 212390

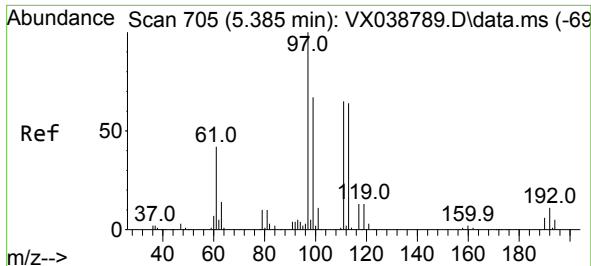
Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.0

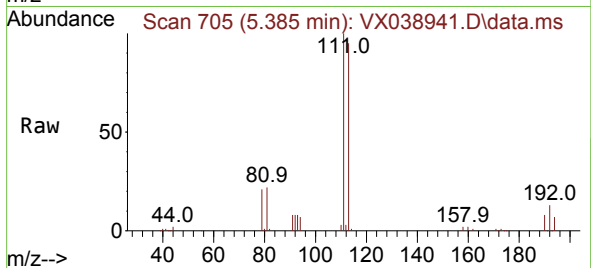
88 16.0 0.0 36.6



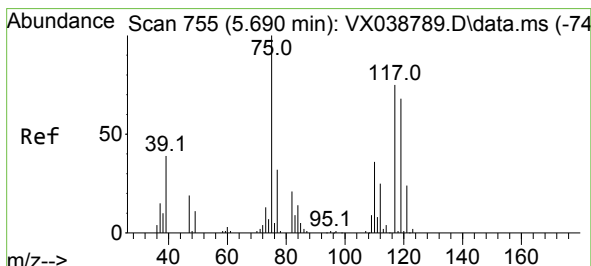
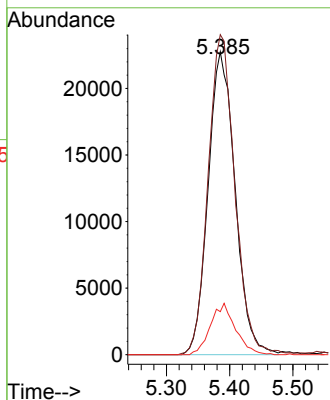
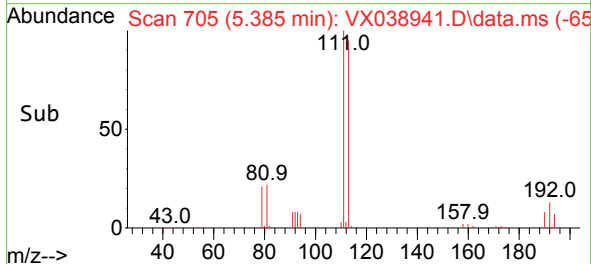


#35  
Dibromofluoromethane  
Concen: 44.037 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Instrument :  
MSVOA\_X  
ClientSampleId :

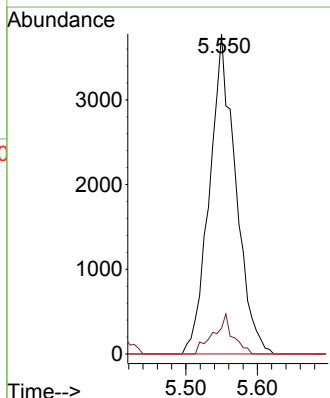
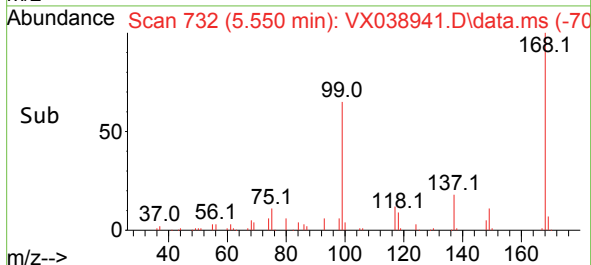
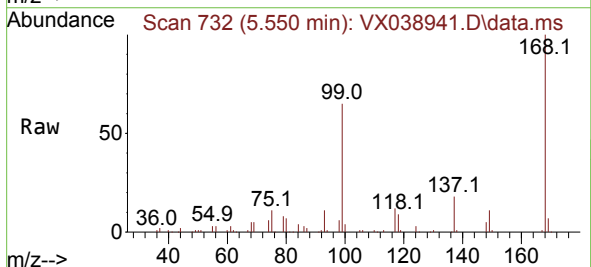


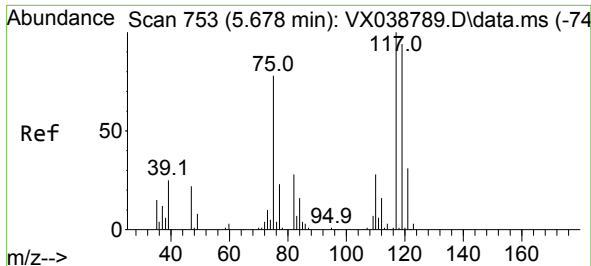
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Ion Ratio Lower Upper  
113 100  
111 104.6 82.9 124.3  
192 15.7 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.371 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

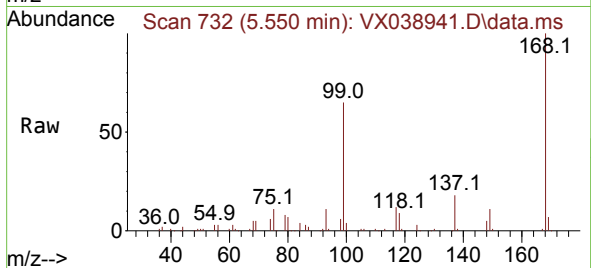
Tgt Ion: 75 Resp: 9610  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.0 50.9#  
77 0.0 24.7 37.1#



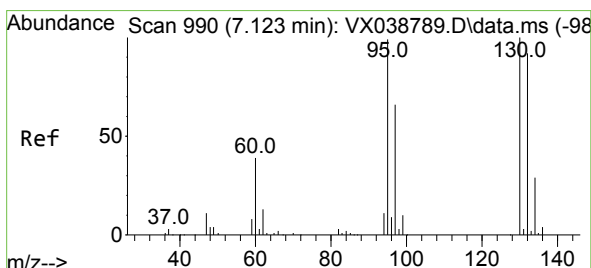
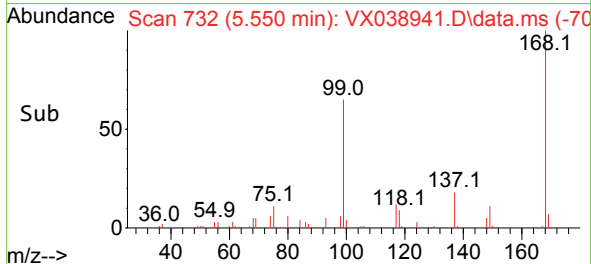
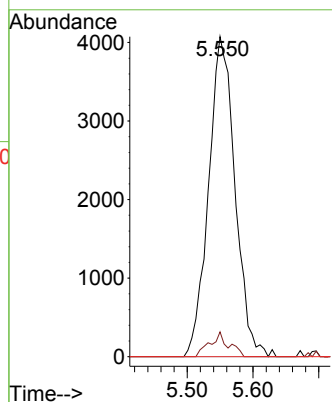


#38  
Carbon Tetrachloride  
Concen: 5.620 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Instrument :  
MSVOA\_X  
ClientSampleId :

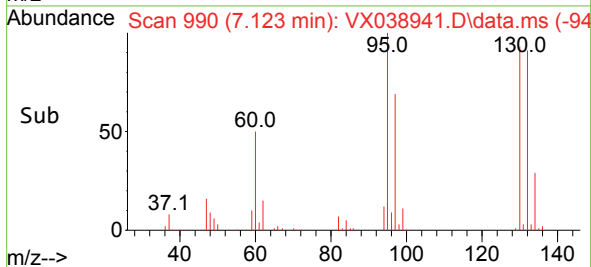
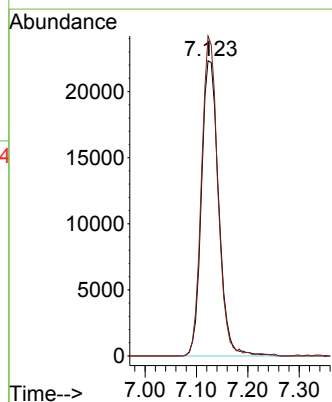
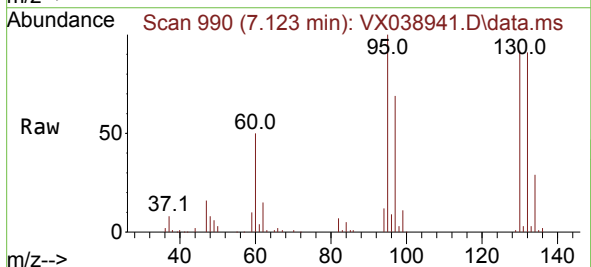


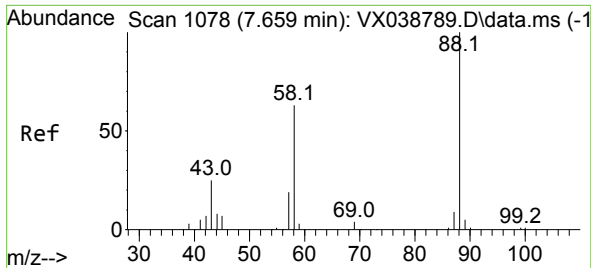
Tgt Ion:117 Resp: 11420  
Ion Ratio Lower Upper  
117 100  
119 7.7 78.2 117.2#  
121 0.0 24.4 36.6#



#44  
Trichloroethene  
Concen: 32.756 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Tgt Ion:130 Resp: 51844  
Ion Ratio Lower Upper  
130 100  
95 108.4 0.0 204.4

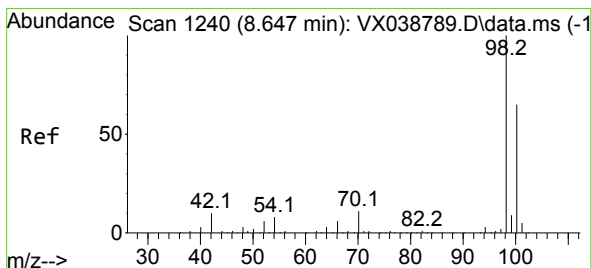
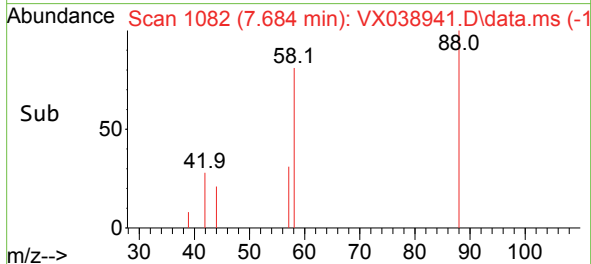
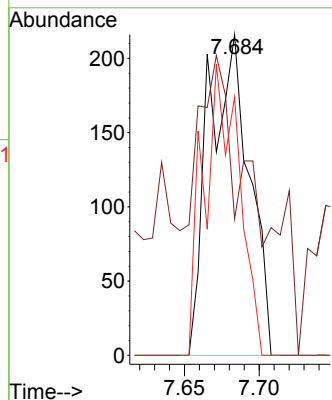
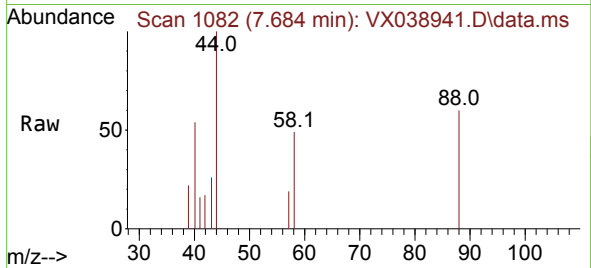




#49  
1,4-Dioxane  
Concen: 9.496 ug/l  
RT: 7.684 min Scan# 110  
Delta R.T. 0.024 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

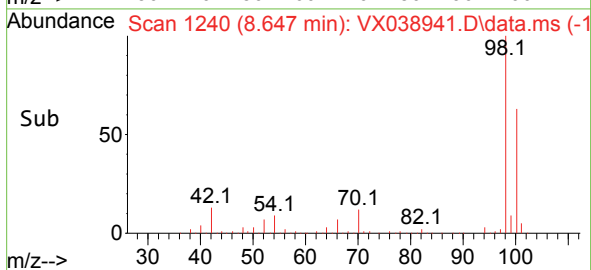
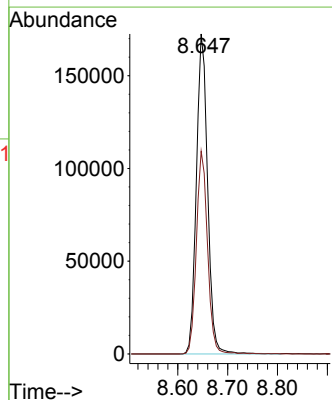
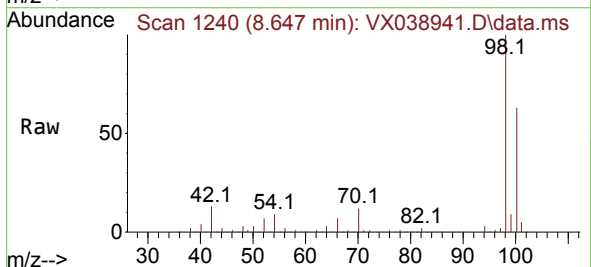
Instrument :  
MSVOA\_X  
ClientSampleId :

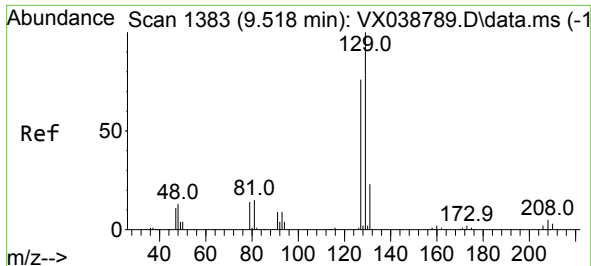
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Ion Ratio Lower Upper  
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58 78.7 60.1 90.1



#50  
Toluene-d8  
Concen: 45.964 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Tgt Ion: 98 Resp: 269759  
Ion Ratio Lower Upper  
98 100  
100 63.1 53.1 79.7

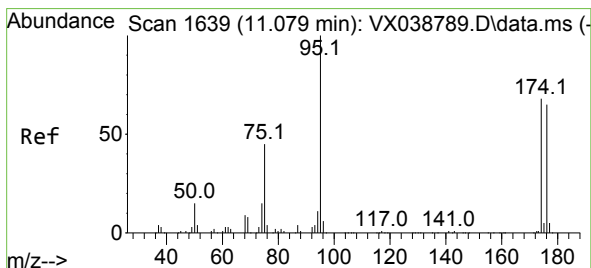
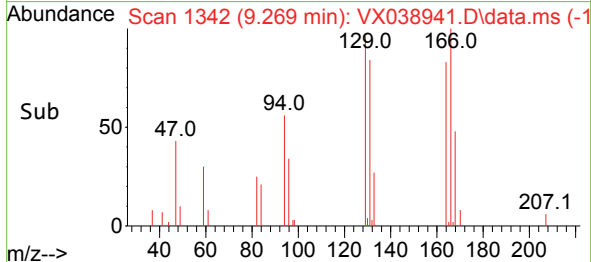
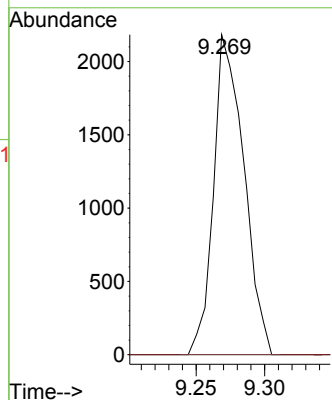
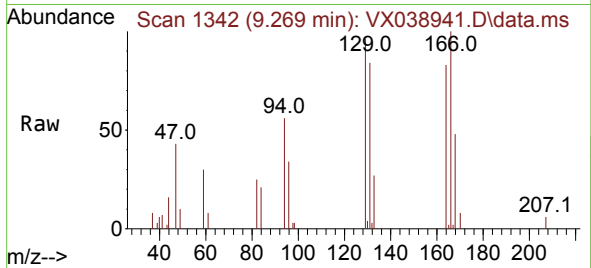




#60  
Dibromochloromethane  
Concen: 1.959 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

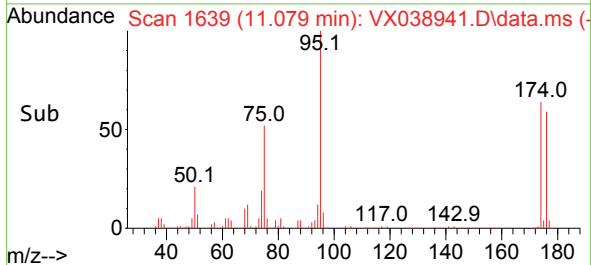
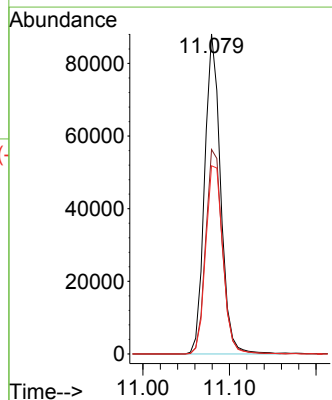
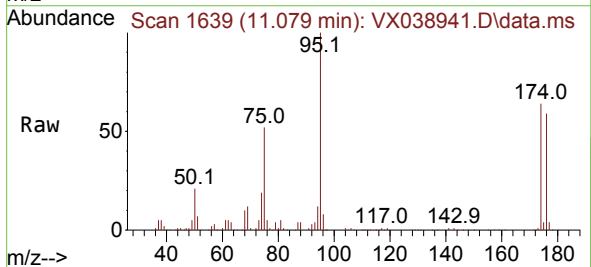
Instrument :  
MSVOA\_X  
ClientSampleId :

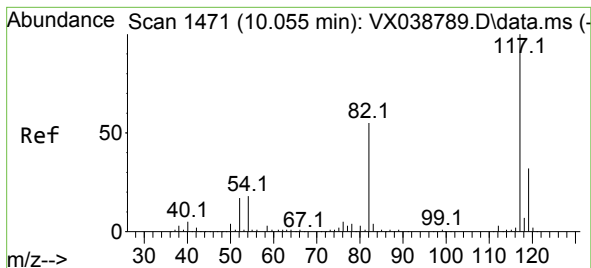
Tgt Ion:129 Resp: 3354  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 48.042 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038941.D  
Acq: 18 Nov 2023 20:09

Tgt Ion: 95 Resp: 112868  
Ion Ratio Lower Upper  
95 100  
174 66.9 0.0 135.6  
176 63.7 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

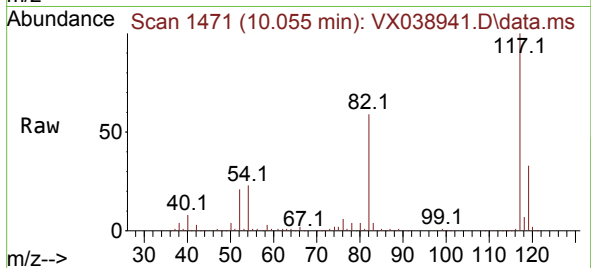
Lab File: VX038941.D

Acq: 18 Nov 2023 20:09

Instrument :

MSVOA\_X

ClientSampleId :



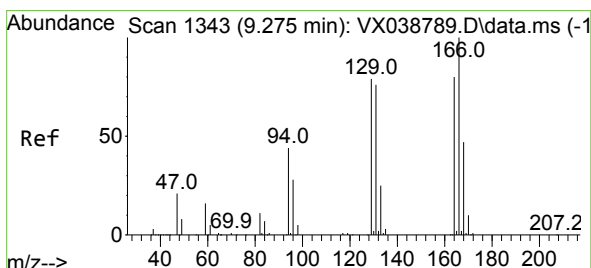
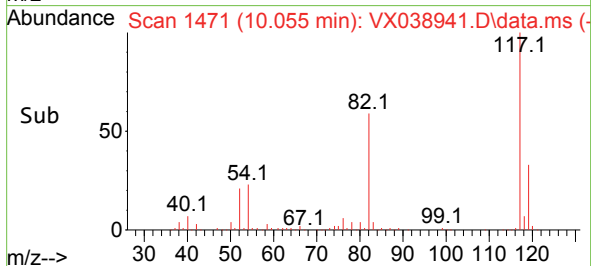
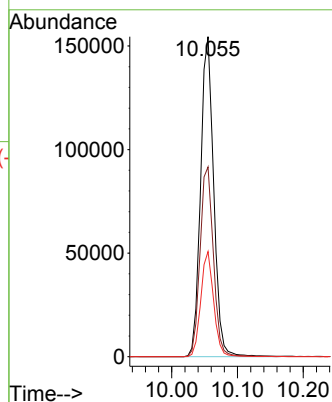
Tgt Ion:117 Resp: 213608

Ion Ratio Lower Upper

117 100

82 59.3 46.2 69.4

119 32.8 25.5 38.3



#64

Tetrachloroethene

Concen: 2.284 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX038941.D

Acq: 18 Nov 2023 20:09

Tgt Ion:164 Resp: 3032

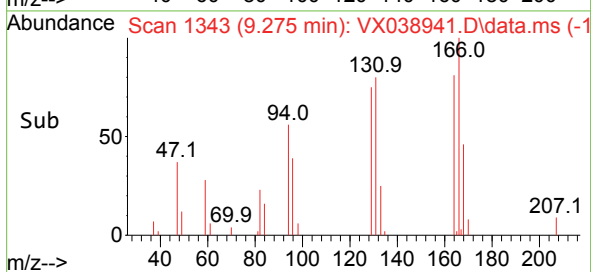
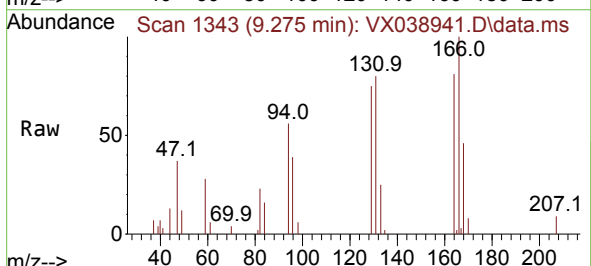
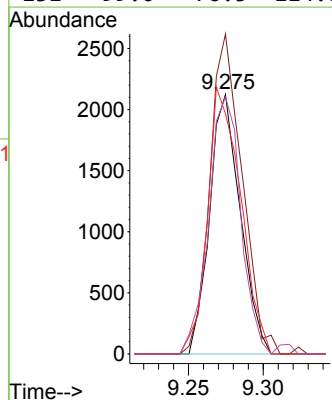
Ion Ratio Lower Upper

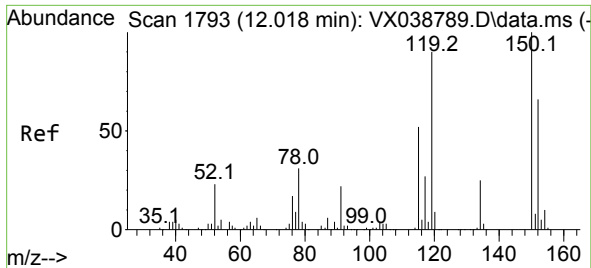
164 100

166 123.3 102.7 154.1

129 92.5 80.4 120.6

131 99.0 76.5 114.7

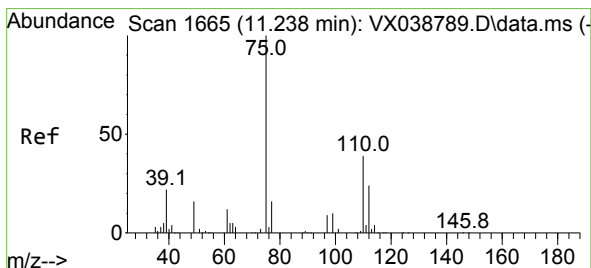
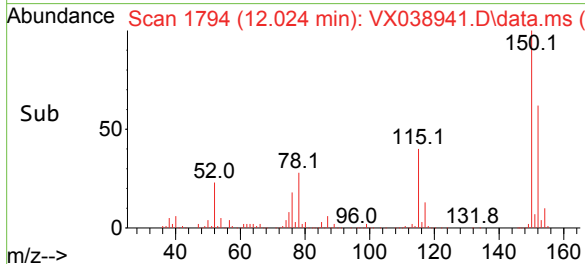
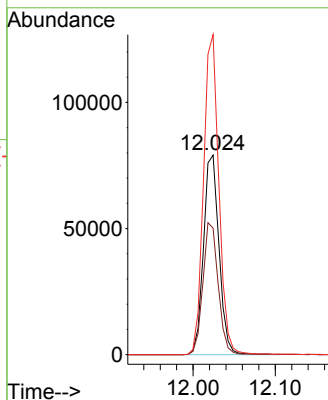
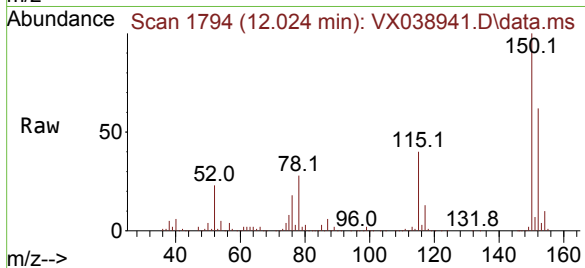




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VX038941.D  
 Acq: 18 Nov 2023 20:09

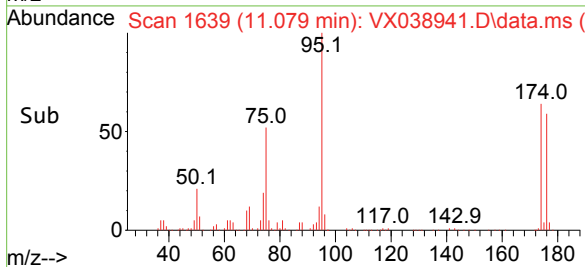
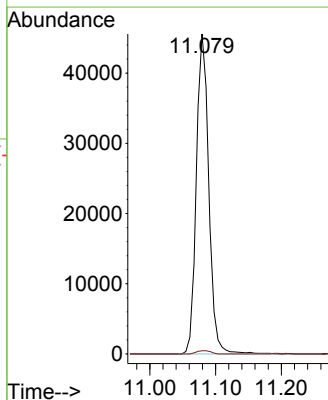
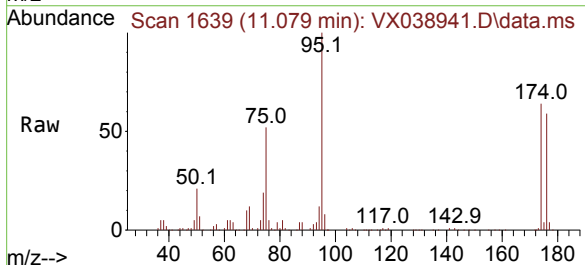
Instrument :  
 MSVOA\_X  
 ClientSampleId :

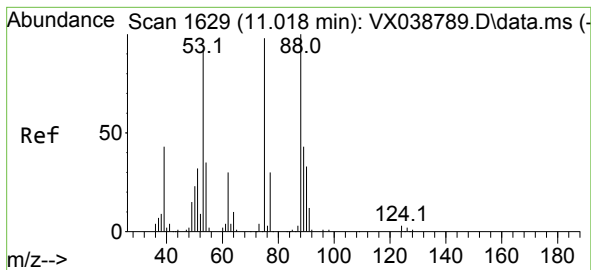
Tgt Ion:152 Resp: 103700  
 Ion Ratio Lower Upper  
 152 100  
 115 65.3 43.3 129.9  
 150 158.7 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 23.159 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX038941.D  
 Acq: 18 Nov 2023 20:09

Tgt Ion: 75 Resp: 59919  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 51.369 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038941.D  
 Acq: 18 Nov 2023 20:09

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 75 Resp: 59919  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

