

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082423\  
 Data File : VX037241.D  
 Acq On : 25 Aug 2023 02:23  
 Operator : JC/MD  
 Sample : 04077-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20230817

Quant Time: Aug 25 06:31:42 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

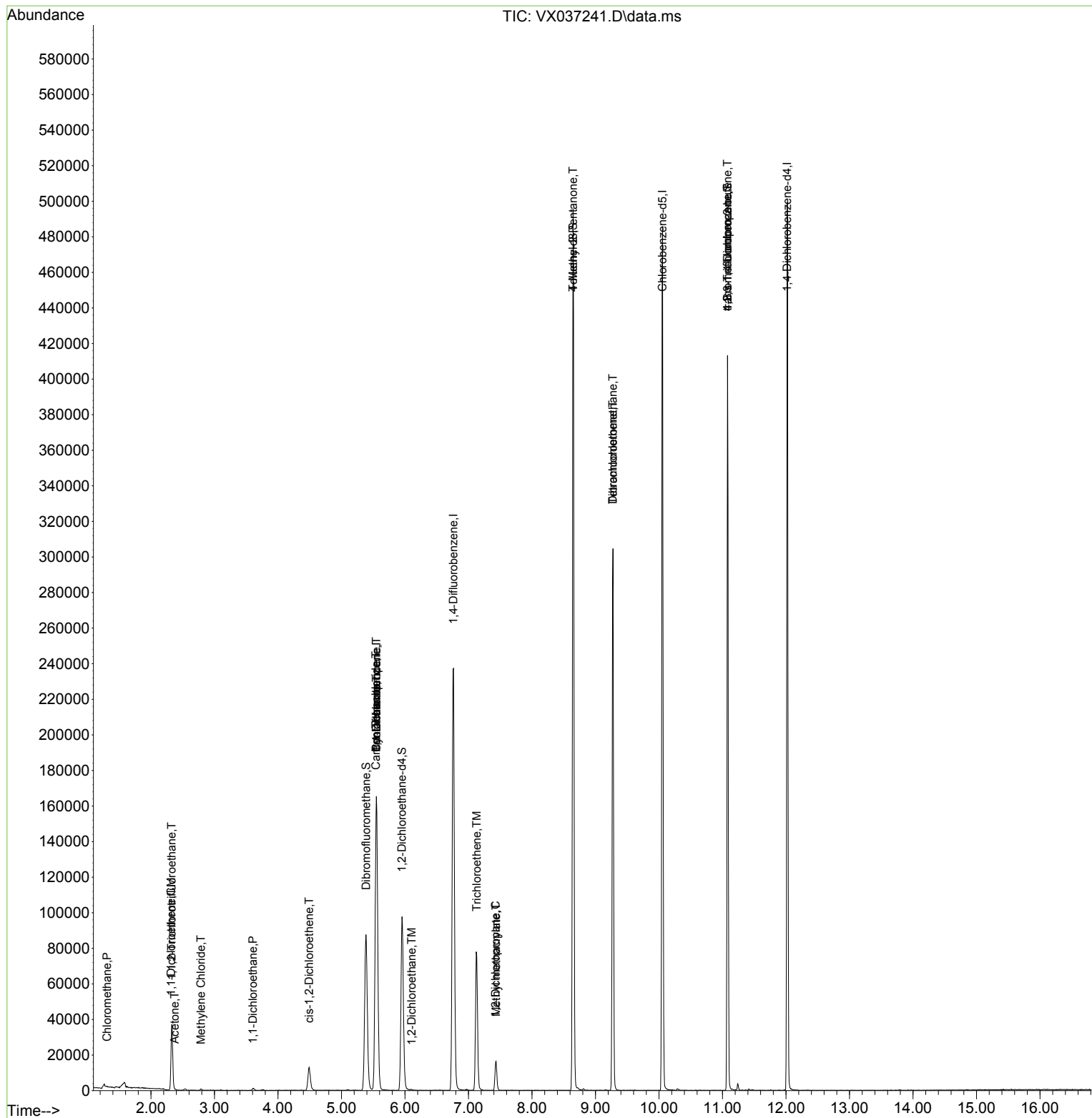
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 154000   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 253481   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 226863   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 101139   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 97864    | 44.079   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 88.160%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 77645    | 46.252   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 92.500%  |
| 50) Toluene-d8                | 8.647  | 98    | 295725   | 48.564   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.120%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 111143   | 46.444   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 92.880%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.307  | 50    | 373      | 0.238    | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 14784    | 9.082    | ug/l   | 98       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 796      | 0.502    | ug/l   | 89       |
| 16) Acetone                   | 2.374  | 43    | 507      | 0.584    | ug/l # | 84       |
| 20) Methylene Chloride        | 2.788  | 84    | 425      | 0.219    | ug/l # | 70       |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 1686     | 0.534    | ug/l # | 83       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 8858     | 4.169    | ug/l   | 79       |
| 31) Cyclohexane               | 5.550  | 56    | 3000     | 1.202    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 12040    | 5.048    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 16594    | 6.405    | ug/l # | 14       |
| 42) 1,2-Dichloroethane        | 6.105  | 62    | 653      | 0.243    | ug/l # | 77       |
| 44) Trichloroethene           | 7.129  | 130   | 31836    | 16.414   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.428  | 63    | 6678     | 3.959    | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.434  | 41    | 3651     | 1.936    | ug/l # | 43       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1119     | 0.476    | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 56023    | 28.592   | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 56615    | 34.209   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 56537    | 26.248   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 56537    | 73.313   | ug/l # | 5        |

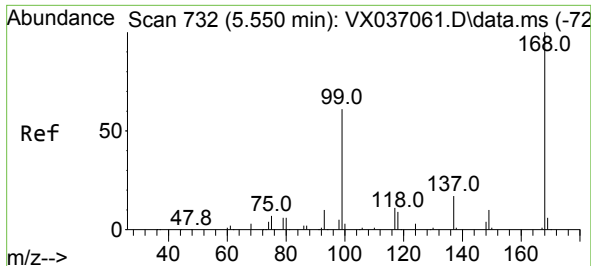
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

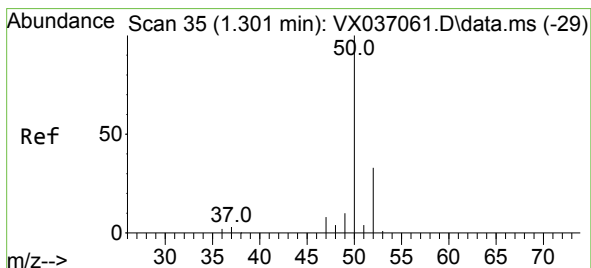
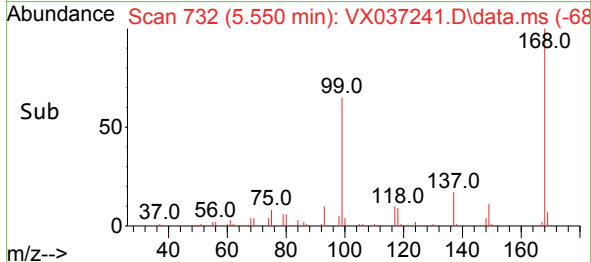
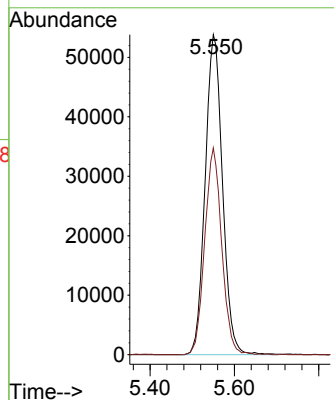
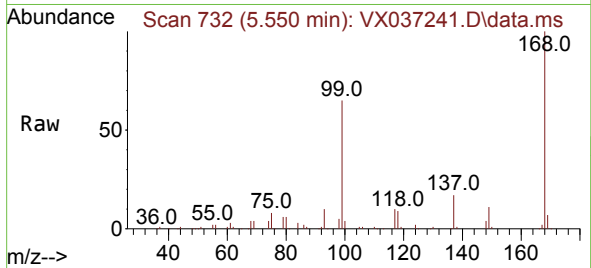




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

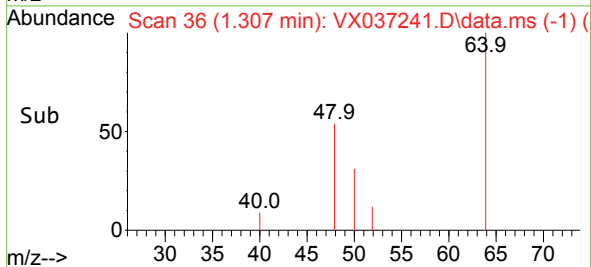
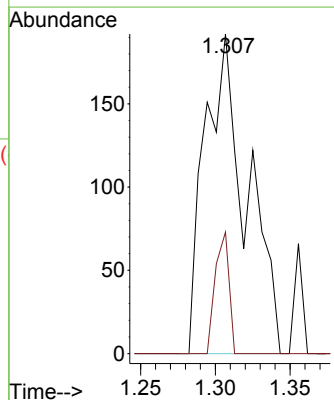
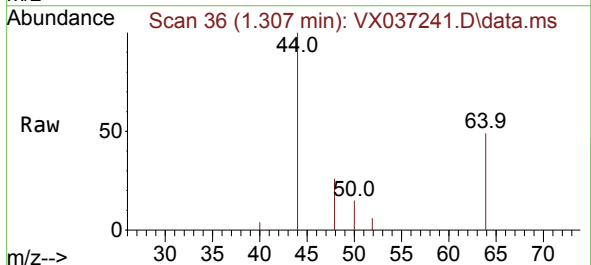
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

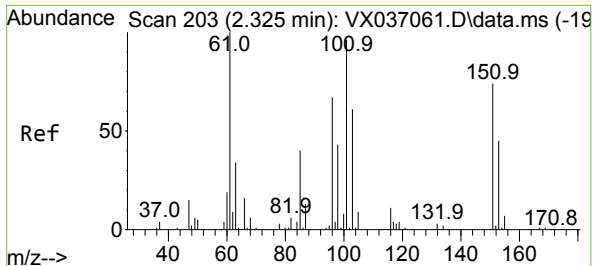
Tgt Ion:168 Resp: 154000  
Ion Ratio Lower Upper  
168 100  
99 64.6 56.6 85.0



#3  
Chloromethane  
Concen: 0.238 ug/l  
RT: 1.307 min Scan# 36  
Delta R.T. 0.006 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion: 50 Resp: 373  
Ion Ratio Lower Upper  
50 100  
52 38.0 25.5 38.3

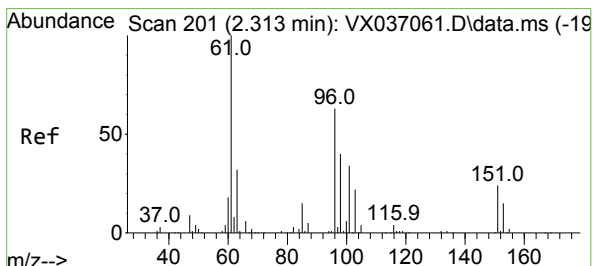
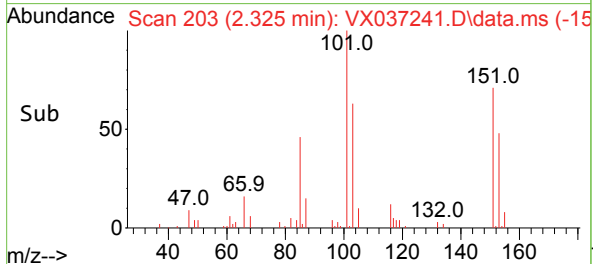
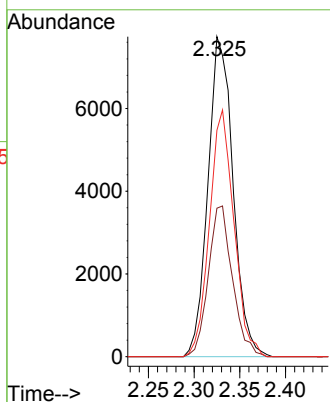
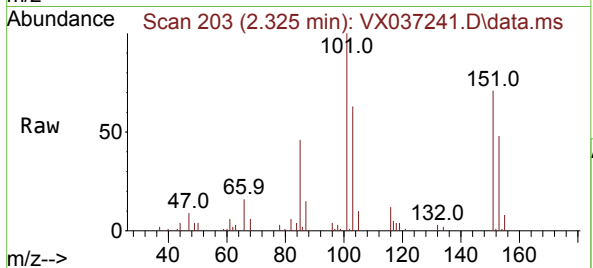




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.082 ug/l  
 RT: 2.325 min Scan# 203  
 Delta R.T. 0.000 min  
 Lab File: VX037241.D  
 Acq: 25 Aug 2023 02:23

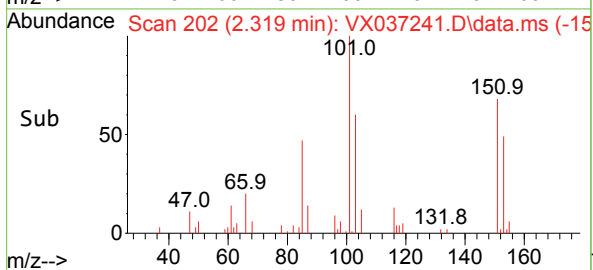
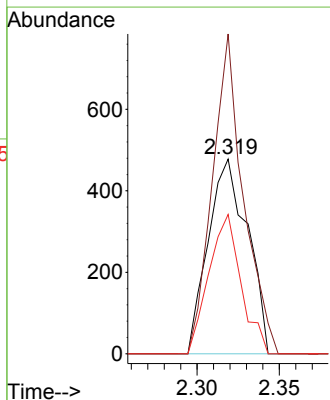
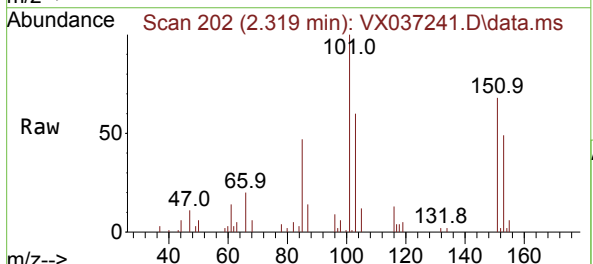
Instrument :  
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 ClientSampleId :  
 RE135D3-20230817

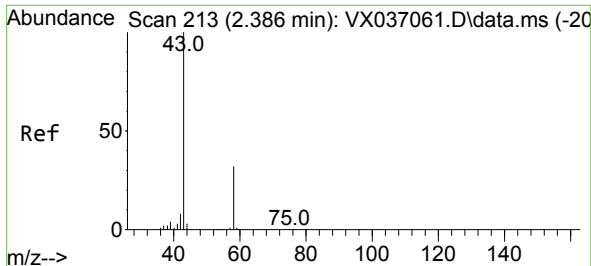
Tgt Ion:101 Resp: 14784  
 Ion Ratio Lower Upper  
 101 100  
 85 45.3 37.0 55.6  
 151 75.2 58.6 87.8



#12  
 1,1-Dichloroethene  
 Concen: 0.502 ug/l  
 RT: 2.319 min Scan# 202  
 Delta R.T. 0.006 min  
 Lab File: VX037241.D  
 Acq: 25 Aug 2023 02:23

Tgt Ion: 96 Resp: 796  
 Ion Ratio Lower Upper  
 96 100  
 61 164.2 144.6 216.8  
 98 71.5 50.4 75.6

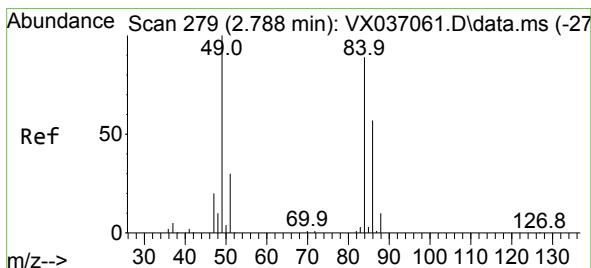
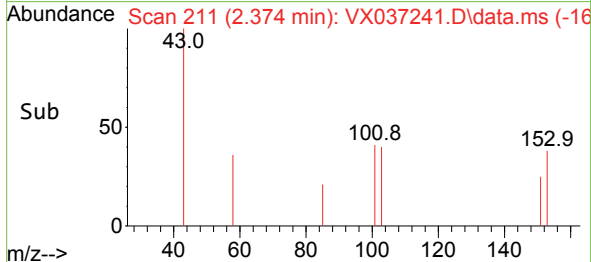
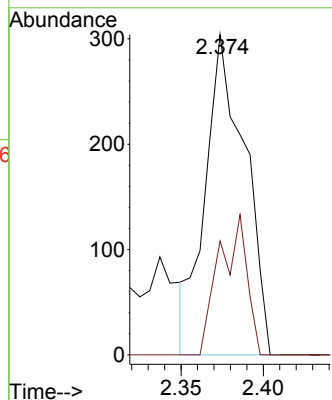
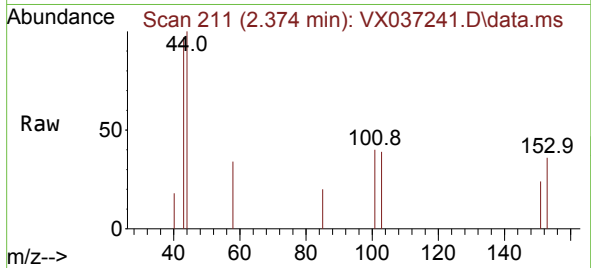




#16  
Acetone  
Concen: 0.584 ug/l  
RT: 2.374 min Scan# 213  
Delta R.T. -0.012 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

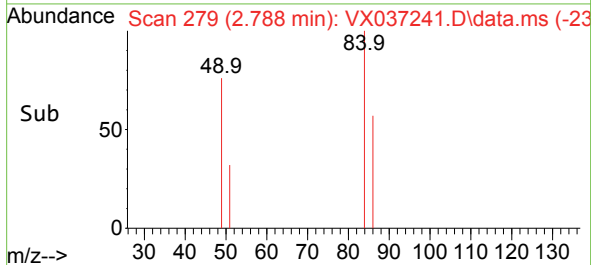
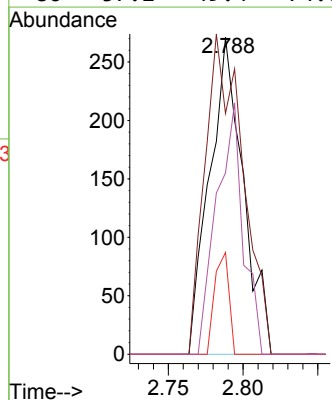
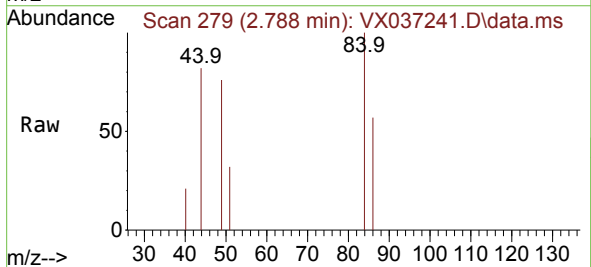
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

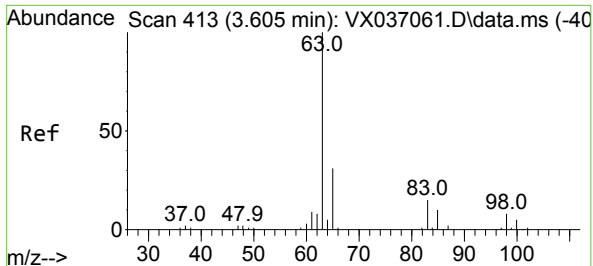
Tgt Ion: 43 Resp: 507  
Ion Ratio Lower Upper  
43 100  
58 35.5 21.9 32.9#



#20  
Methylene Chloride  
Concen: 0.219 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion: 84 Resp: 425  
Ion Ratio Lower Upper  
84 100  
49 76.0 103.6 155.4#  
51 32.1 33.8 50.6#  
86 57.2 49.4 74.0

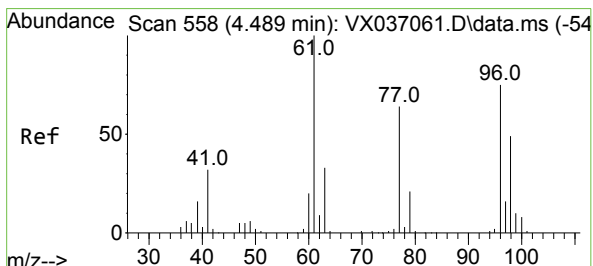
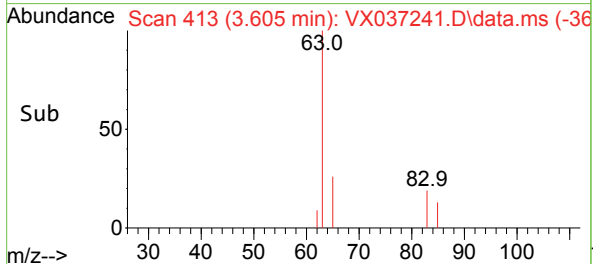
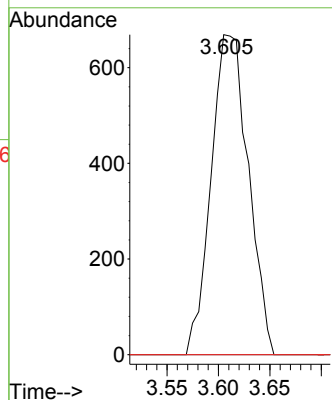
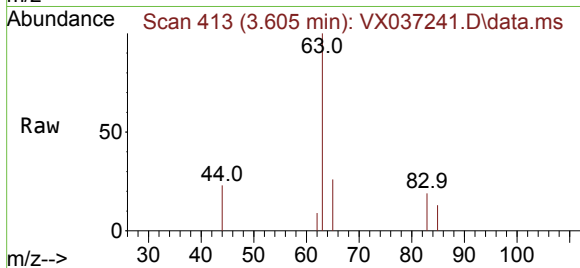




#24  
 1,1-Dichloroethane  
 Concen: 0.534 ug/l  
 RT: 3.605 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VX037241.D  
 Acq: 25 Aug 2023 02:23

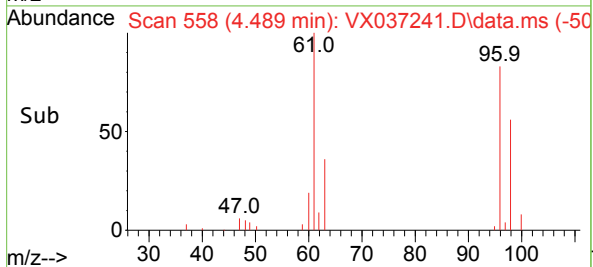
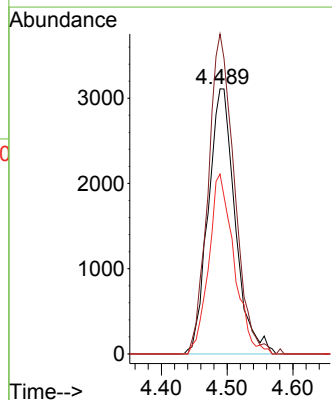
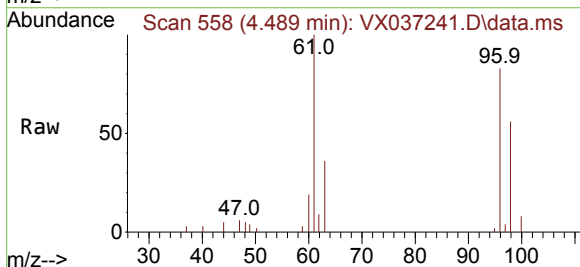
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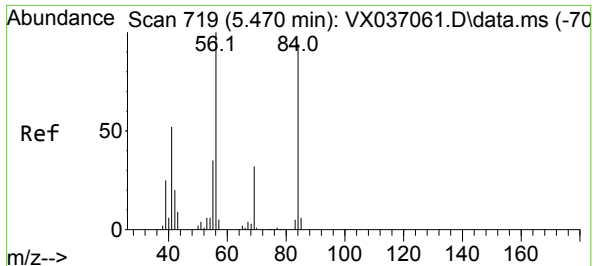
Tgt Ion: 63 Resp: 1686  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 3.3 9.8#  
 100 0.0 2.1 6.5#



#27  
 cis-1,2-Dichloroethene  
 Concen: 4.169 ug/l  
 RT: 4.489 min Scan# 558  
 Delta R.T. 0.000 min  
 Lab File: VX037241.D  
 Acq: 25 Aug 2023 02:23

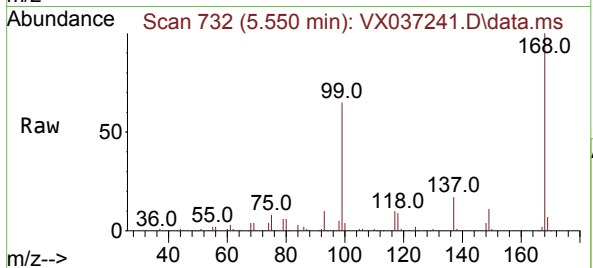
Tgt Ion: 96 Resp: 8858  
 Ion Ratio Lower Upper  
 96 100  
 61 117.2 0.0 312.2  
 98 63.8 0.0 129.0



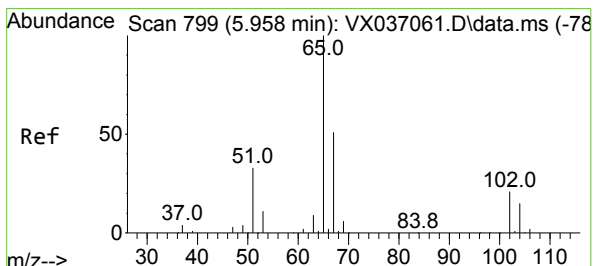
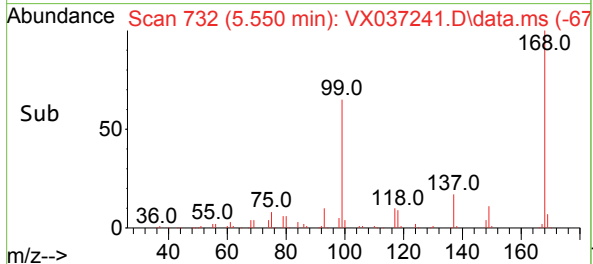
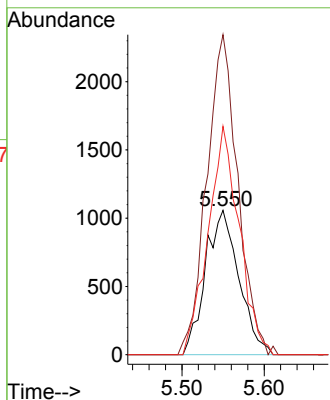


#31  
Cyclohexane  
Concen: 1.202 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

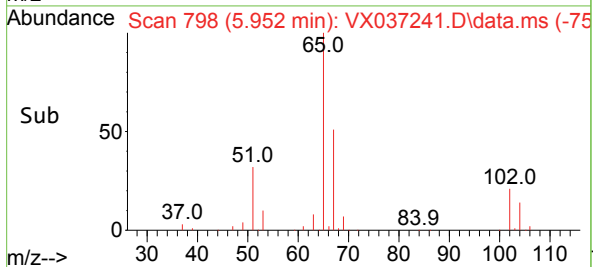
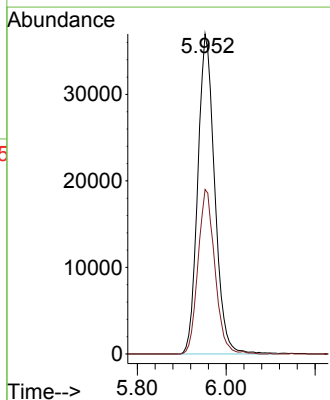
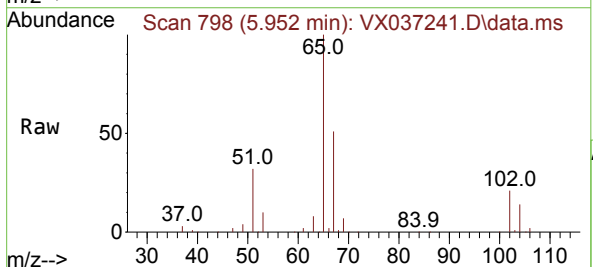


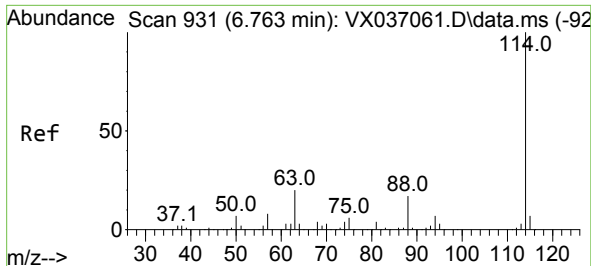
Tgt Ion: 56 Resp: 3000  
Ion Ratio Lower Upper  
56 100  
69 221.8 23.4 35.2#  
84 158.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 44.079 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion: 65 Resp: 97864  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 100.2

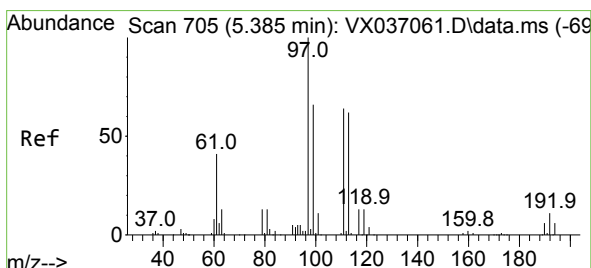
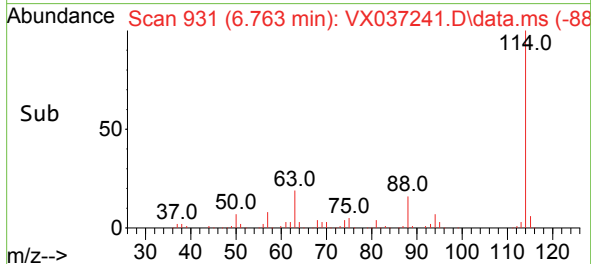
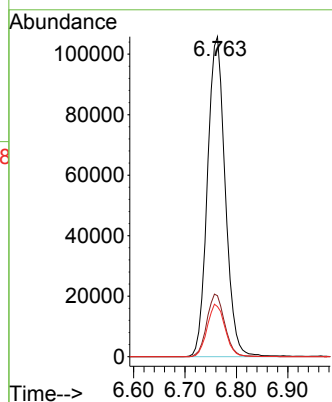
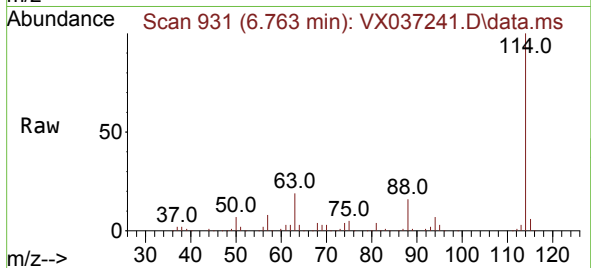




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

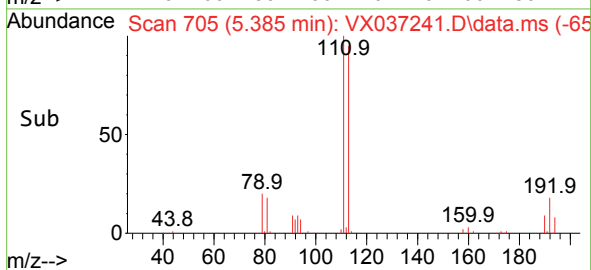
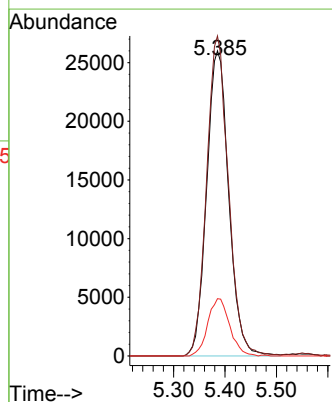
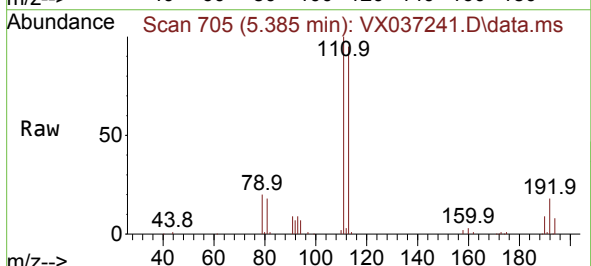
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

Tgt Ion:114 Resp: 253481  
Ion Ratio Lower Upper  
114 100  
63 19.0 0.0 45.0  
88 15.7 0.0 36.6

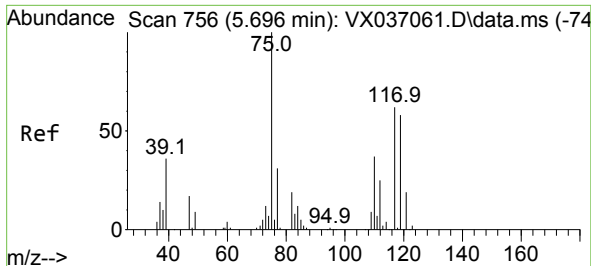


#35  
Dibromofluoromethane  
Concen: 46.252 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion:113 Resp: 77645  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.9 124.3  
192 18.6 13.3 19.9



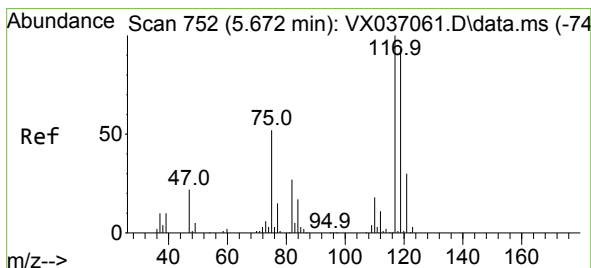
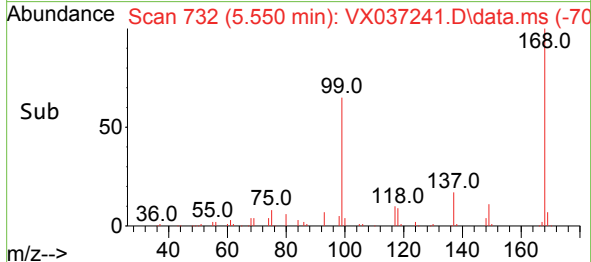
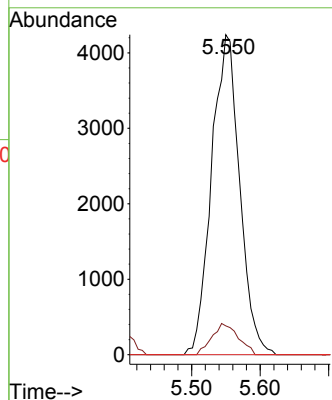
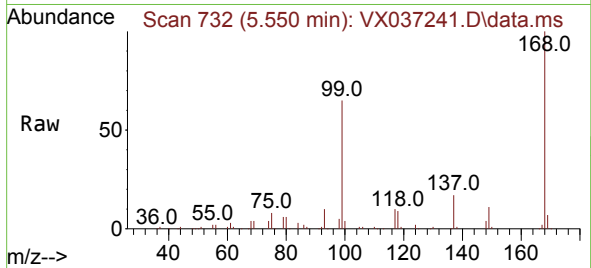




#36  
1,1-Dichloropropene  
Concen: 5.048 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.146 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

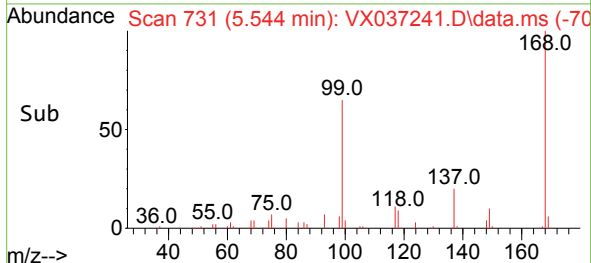
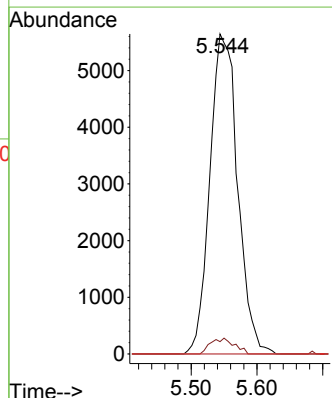
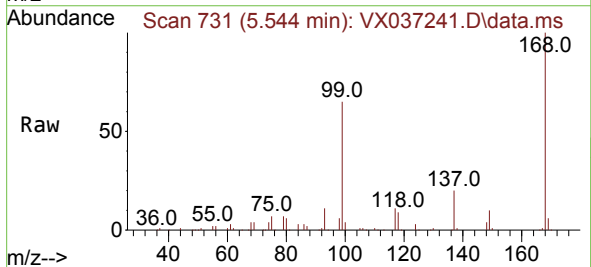
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

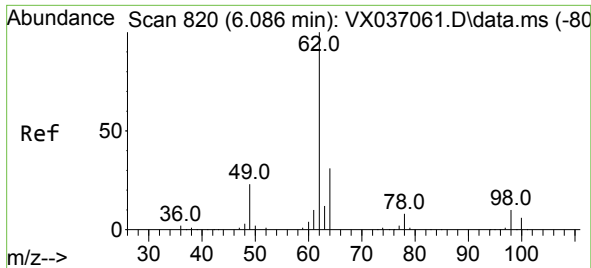
Tgt Ion: 75 Resp: 12040  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.405 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion: 117 Resp: 16594  
Ion Ratio Lower Upper  
117 100  
119 3.9 78.2 117.2#  
121 0.0 24.4 36.6#

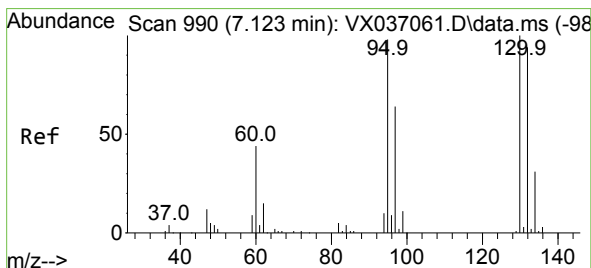
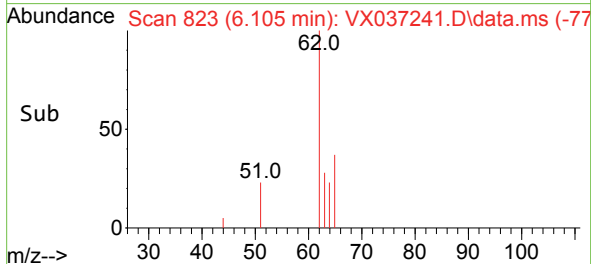
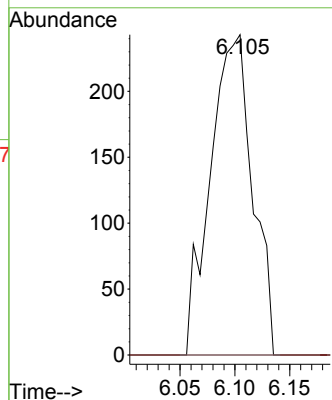
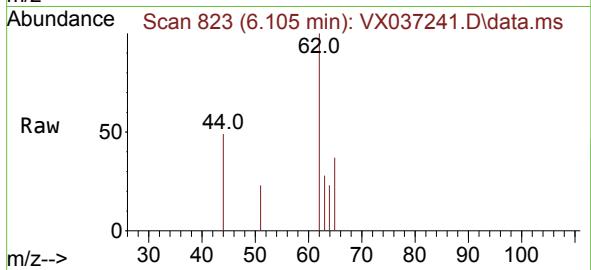




#42  
1,2-Dichloroethane  
Concen: 0.243 ug/l  
RT: 6.105 min Scan# 81  
Delta R.T. 0.018 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

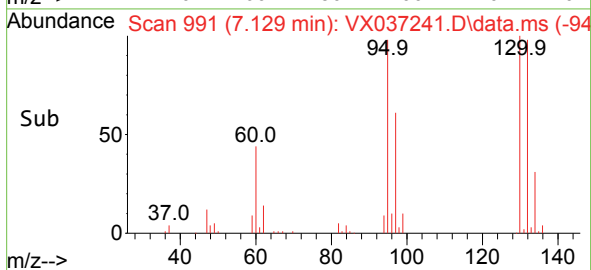
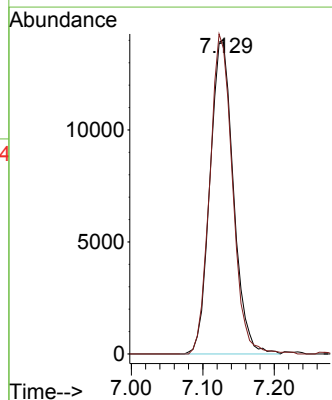
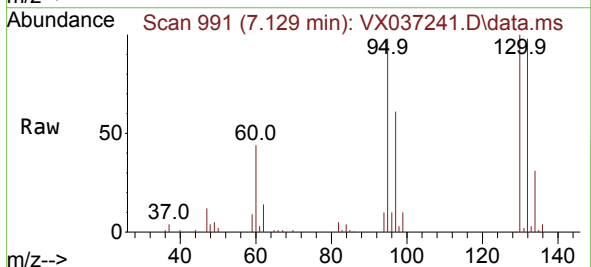
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

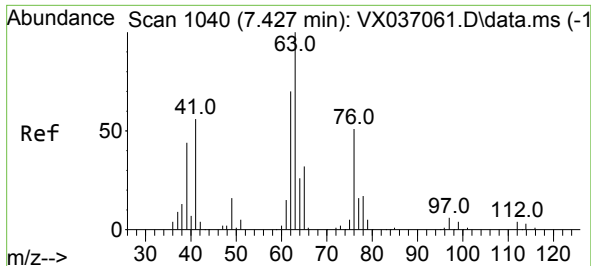
Tgt Ion: 62 Resp: 653  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 16.0



#44  
Trichloroethene  
Concen: 16.414 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion:130 Resp: 31836  
Ion Ratio Lower Upper  
130 100  
95 98.1 0.0 204.4

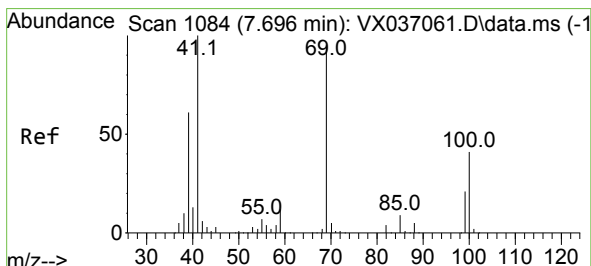
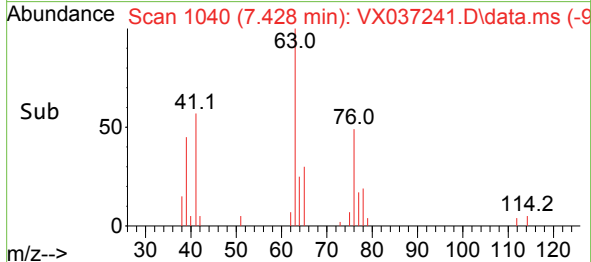
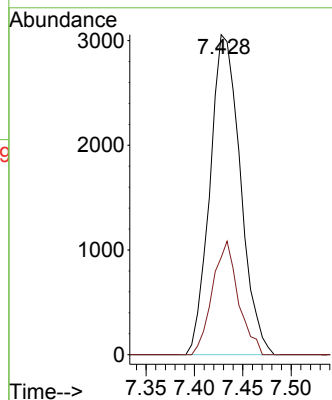
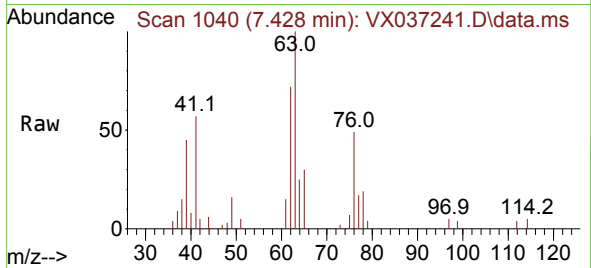




#45  
1,2-Dichloropropane  
Concen: 3.959 ug/l  
RT: 7.428 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

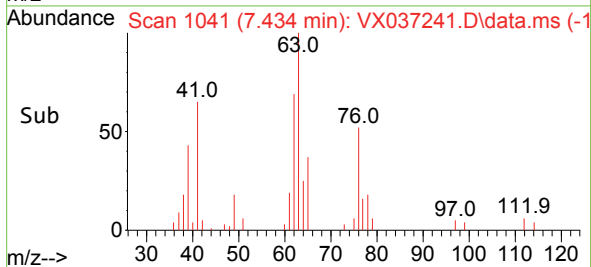
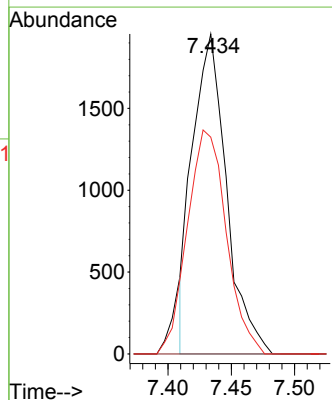
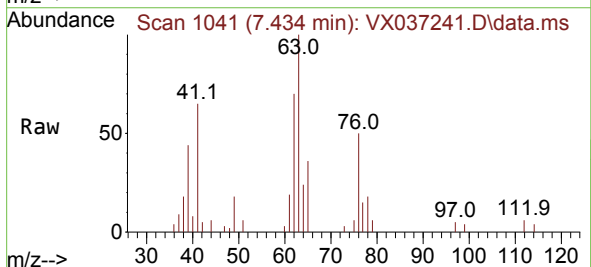
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

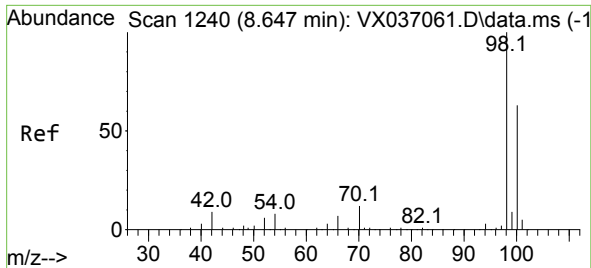
Tgt Ion: 63 Resp: 6678  
Ion Ratio Lower Upper  
63 100  
65 30.3 24.3 36.5



#48  
Methyl methacrylate  
Concen: 1.936 ug/l  
RT: 7.434 min Scan# 1041  
Delta R.T. -0.262 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion: 41 Resp: 3651  
Ion Ratio Lower Upper  
41 100  
69 0.0 59.2 88.8#  
39 73.5 47.7 71.5#

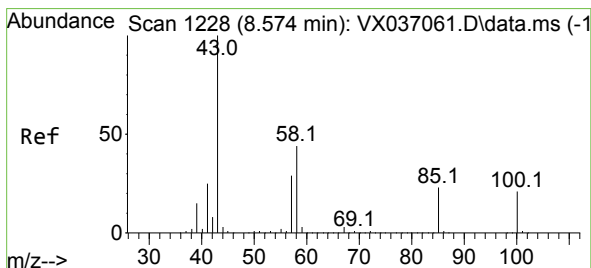
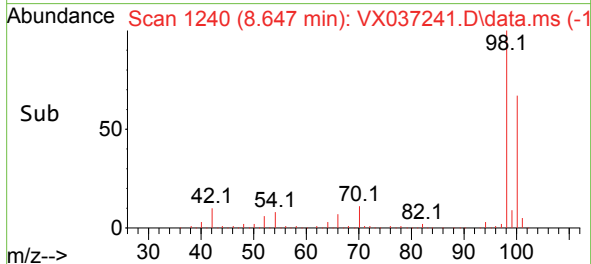
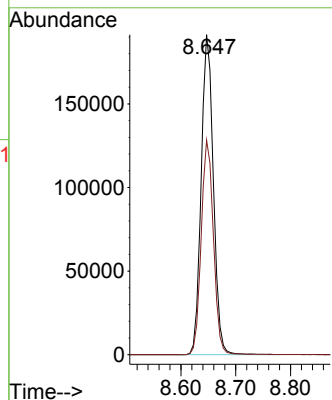
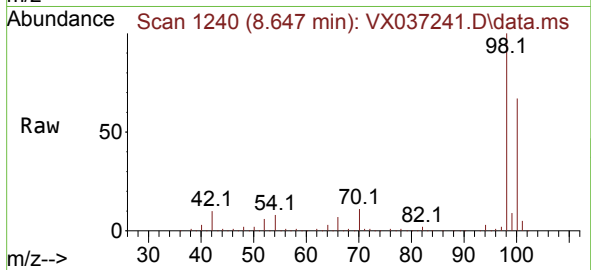




#50  
Toluene-d8  
Concen: 48.564 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

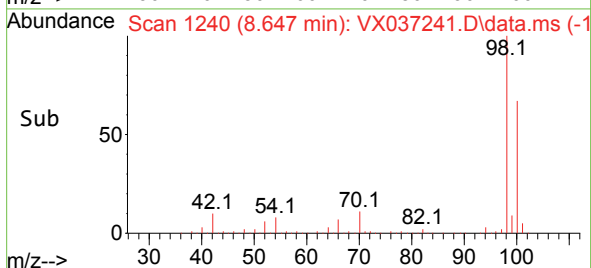
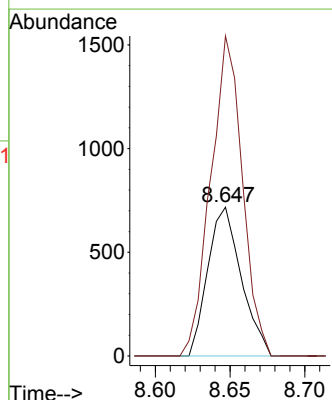
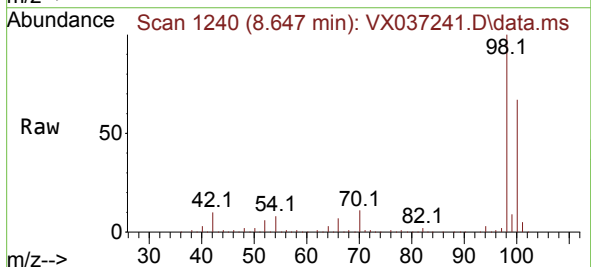
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

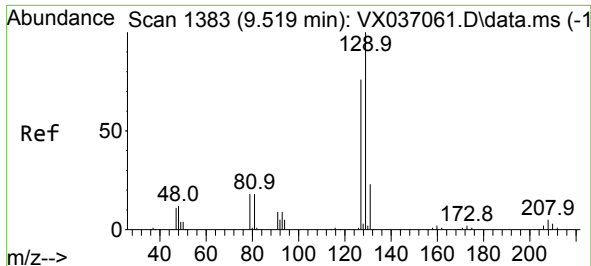
Tgt Ion: 98 Resp: 295725  
Ion Ratio Lower Upper  
98 100  
100 67.3 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.476 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion: 43 Resp: 1119  
Ion Ratio Lower Upper  
43 100  
58 203.5 30.4 45.6#

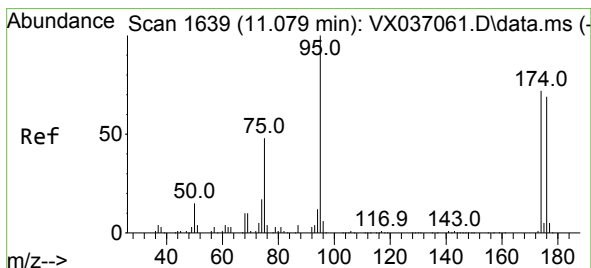
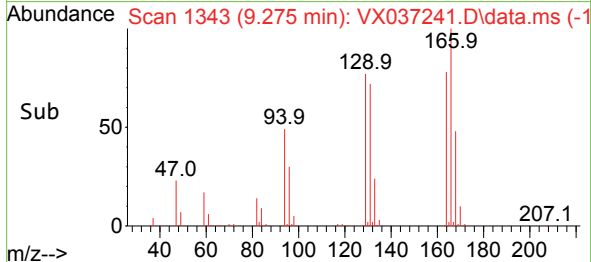
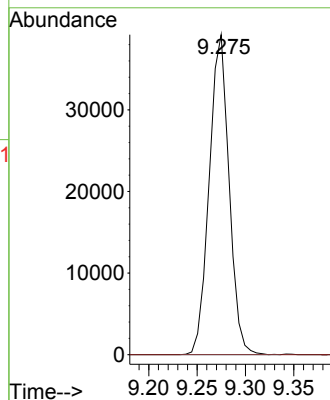
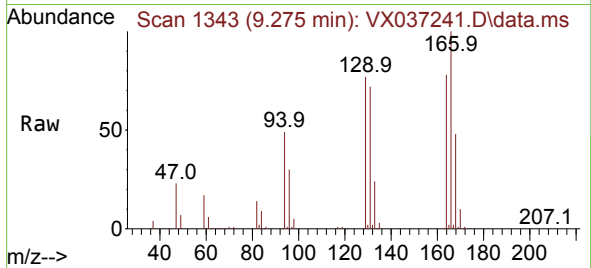




#60  
Dibromochloromethane  
Concen: 28.592 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

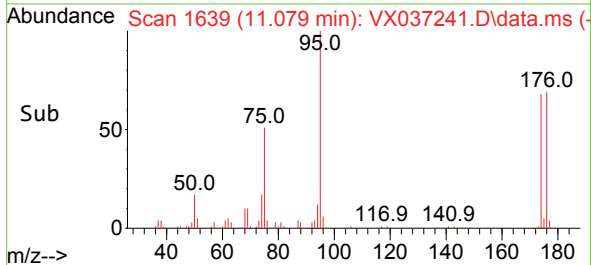
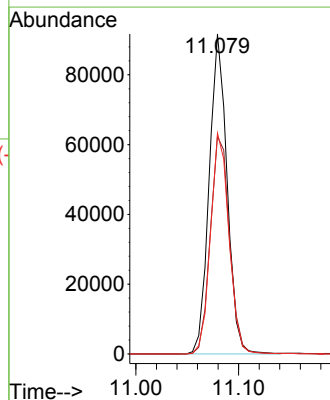
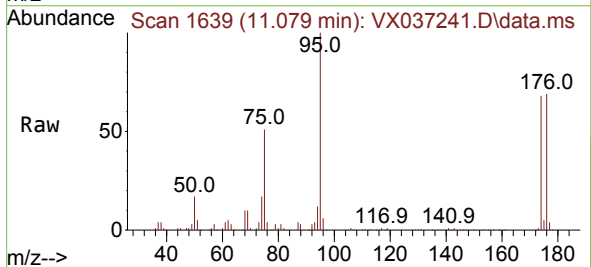
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

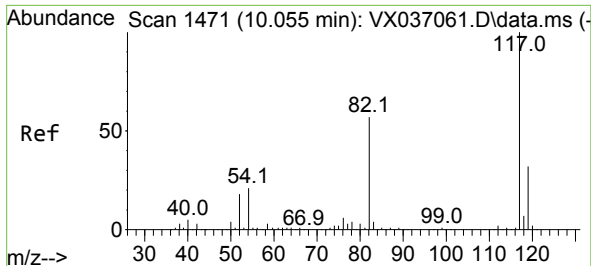
Tgt Ion:129 Resp: 56023  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 46.444 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion: 95 Resp: 111143  
Ion Ratio Lower Upper  
95 100  
174 72.7 0.0 135.6  
176 71.1 0.0 131.0

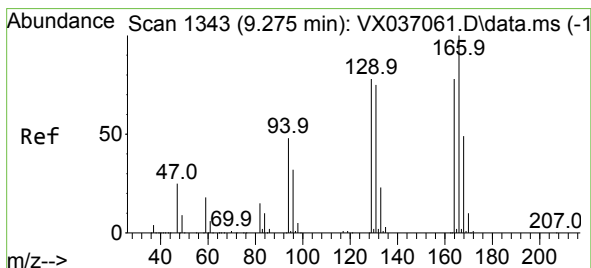
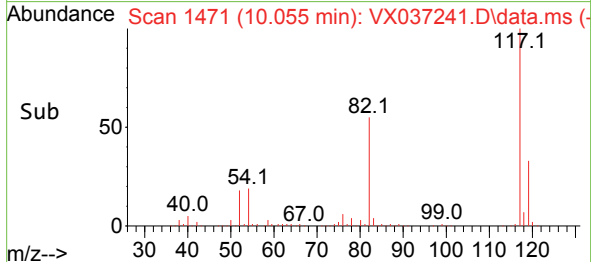
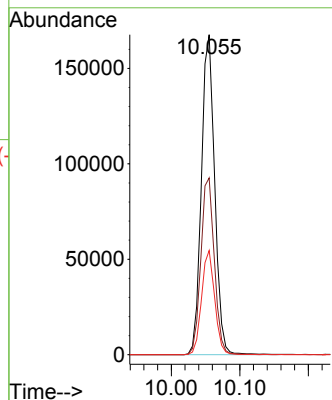
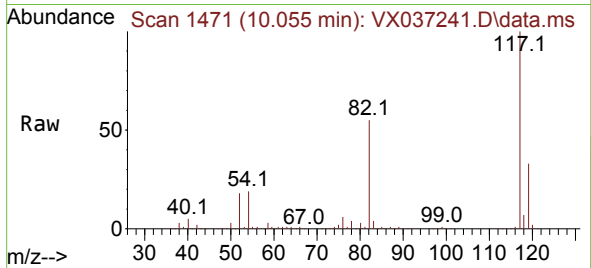




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

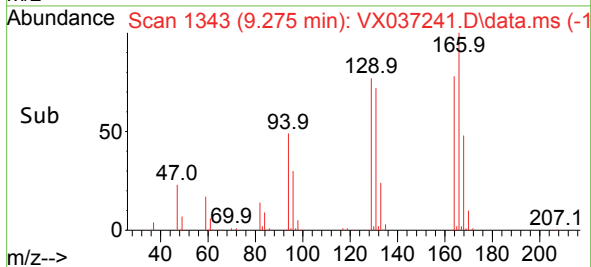
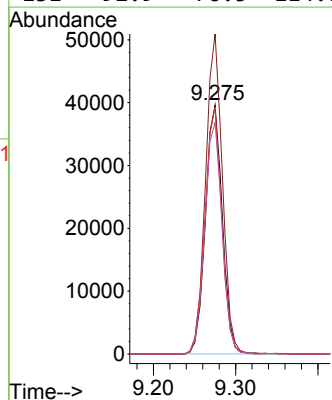
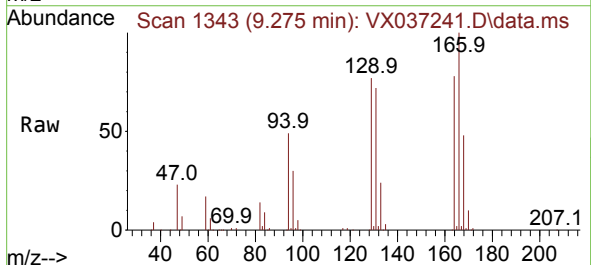
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20230817

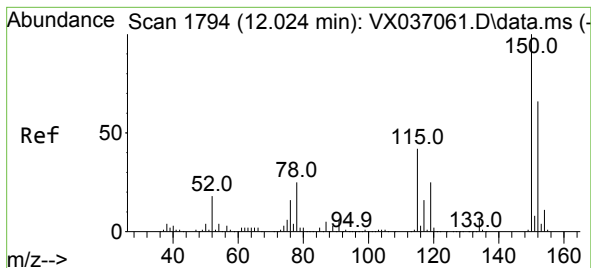
Tgt Ion:117 Resp: 226863  
Ion Ratio Lower Upper  
117 100  
82 55.3 46.2 69.4  
119 32.6 25.5 38.3



#64  
Tetrachloroethene  
Concen: 34.209 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.000 min  
Lab File: VX037241.D  
Acq: 25 Aug 2023 02:23

Tgt Ion:164 Resp: 56615  
Ion Ratio Lower Upper  
164 100  
166 128.6 102.7 154.1  
129 99.0 80.4 120.6  
131 92.9 76.5 114.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX037241.D

Acq: 25 Aug 2023 02:23

Instrument :

MSVOA\_X

ClientSampleId :

RE135D3-20230817

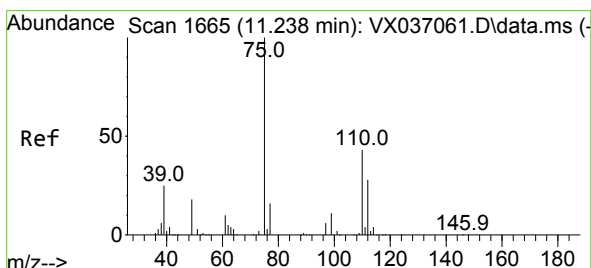
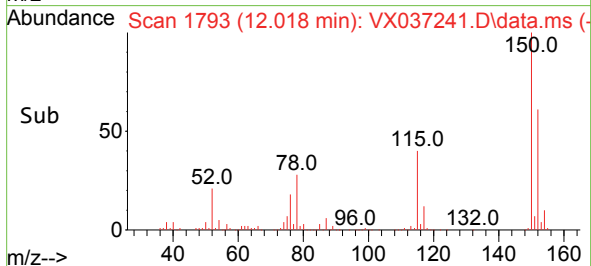
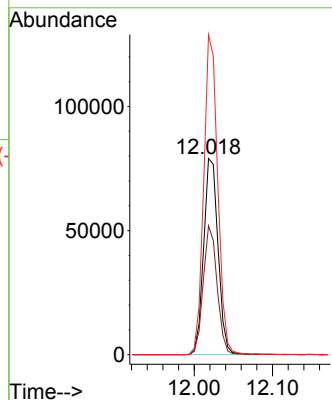
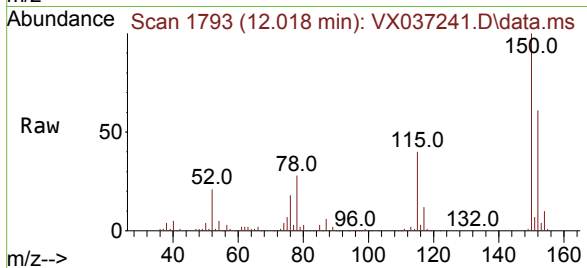
Tgt Ion:152 Resp: 101139

Ion Ratio Lower Upper

152 100

115 63.5 43.3 129.9

150 158.5 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 26.248 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037241.D

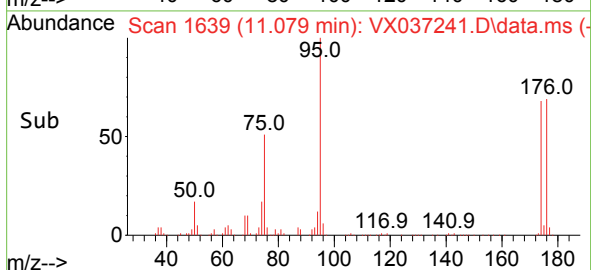
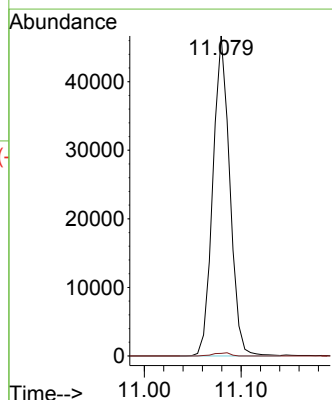
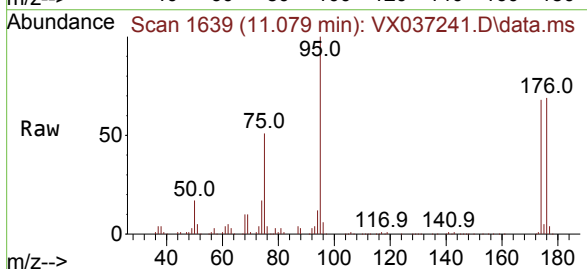
Acq: 25 Aug 2023 02:23

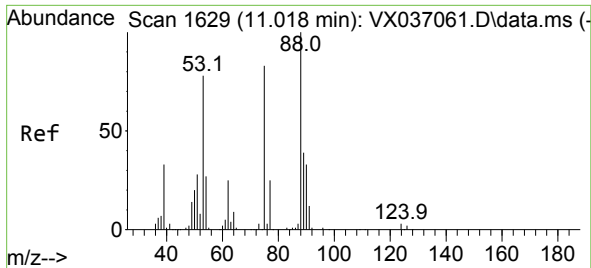
Tgt Ion: 75 Resp: 56537

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.313 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX037241.D  
 Acq: 25 Aug 2023 02:23

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20230817

Tgt Ion: 75 Resp: 56537  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

