

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111723\  
 Data File : VX038910.D  
 Acq On : 18 Nov 2023 05:30  
 Operator : JC/MD  
 Sample : 05404-26  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE137-20231109

Quant Time: Nov 20 00:33:20 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

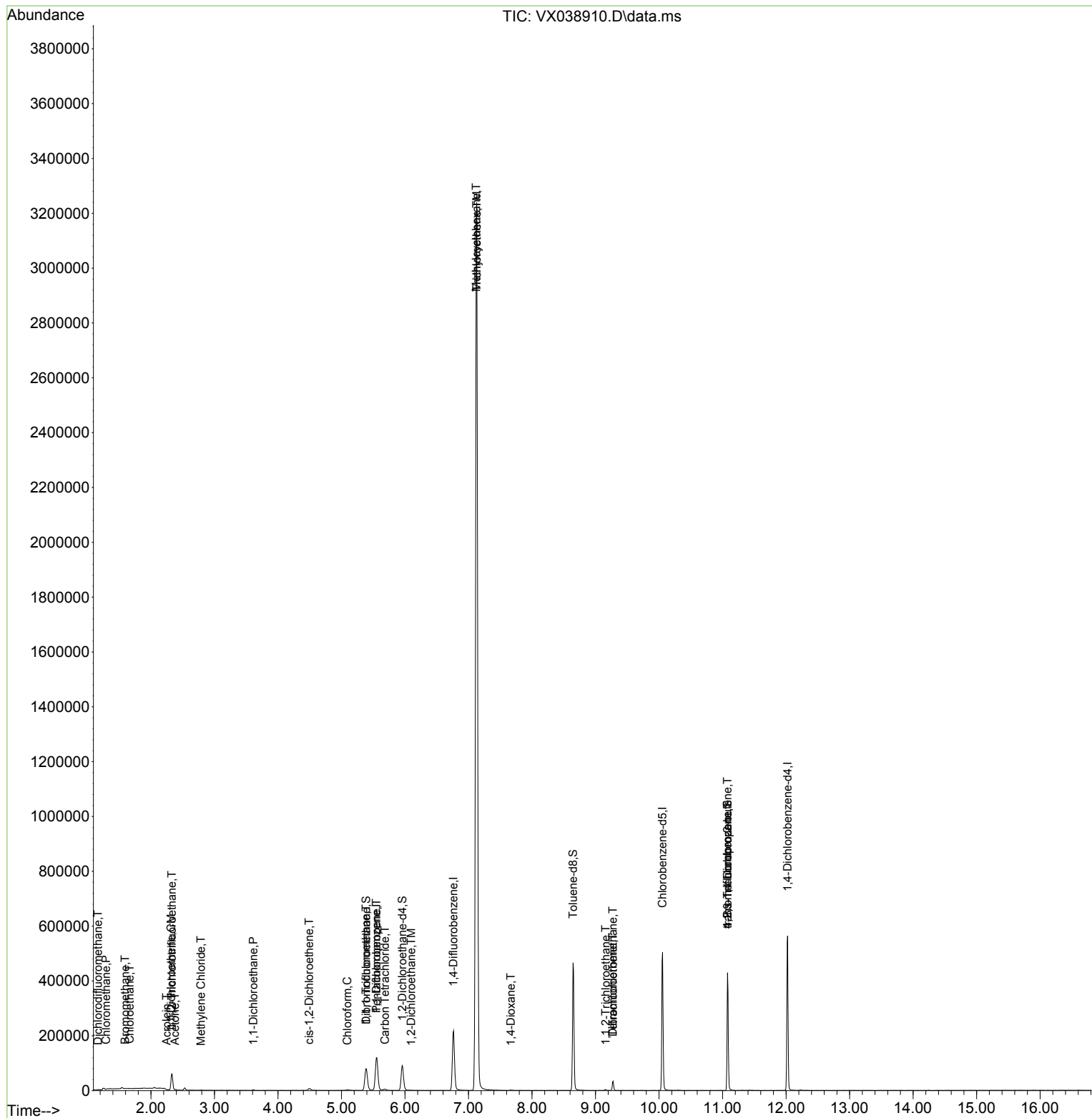
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 109037   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 219855   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 227942   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 112986   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 85362    | 48.585   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 97.160%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 71880    | 45.269   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 90.540%  |
| 50) Toluene-d8                | 8.647  | 98    | 277745   | 45.718   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 91.440%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 120116   | 49.391   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 98.780%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166  | 85    | 539      | 0.424    | ug/l   | 94       |
| 3) Chloromethane              | 1.294  | 50    | 479      | 0.288    | ug/l   | 100      |
| 5) Bromomethane               | 1.593  | 94    | 191      | 0.289    | ug/l # | 3        |
| 6) Chloroethane               | 1.666  | 64    | 211      | 0.231    | ug/l # | 71       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 19090    | 14.182   | ug/l   | 96       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 5771     | 4.246    | ug/l # | 86       |
| 13) Acrolein                  | 2.245  | 56    | 78       | 0.302    | ug/l # | 1        |
| 16) Acetone                   | 2.380  | 43    | 1501     | 1.605    | ug/l # | 88       |
| 20) Methylene Chloride        | 2.788  | 84    | 515      | 0.305    | ug/l # | 83       |
| 24) 1,1-Dichloroethane        | 3.611  | 63    | 1894     | 0.679    | ug/l # | 83       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 4551     | 2.604    | ug/l   | 78       |
| 30) Chloroform                | 5.093  | 83    | 2392     | 0.878    | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane     | 5.385  | 97    | 535      | 0.227    | ug/l # | 39       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 9679     | 4.253    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.684  | 117   | 3155     | 1.500    | ug/l # | 77       |
| 39) Methylcyclohexane         | 7.123  | 83    | 15989    | 5.386    | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 6.098  | 62    | 450      | 0.202    | ug/l # | 77       |
| 44) Trichloroethene           | 7.129  | 130   | 1209322  | 738.121  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.665  | 88    | 1017     | 22.865   | ug/l # | 99       |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97    | 931      | 0.534    | ug/l # | 75       |
| 60) Dibromochloromethane      | 9.275  | 129   | 6046     | 3.412    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 5880     | 4.150    | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 62427    | 22.145   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 62427    | 49.120   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

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

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Quant Time: Nov 20 00:33:20 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

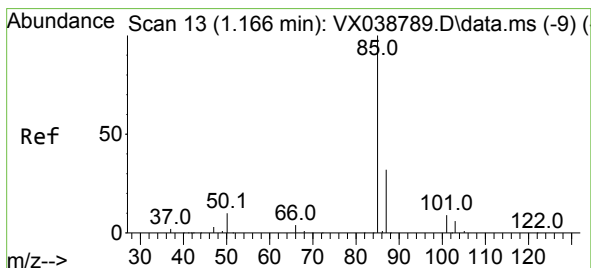
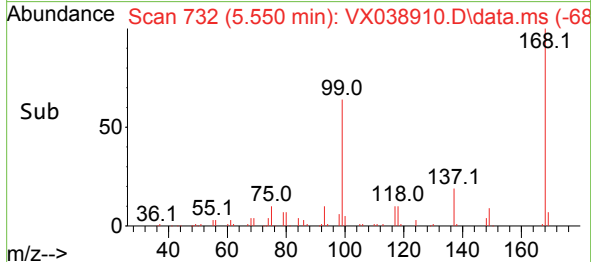
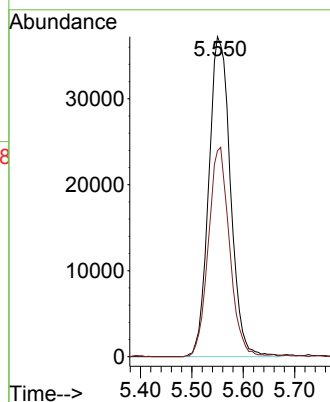
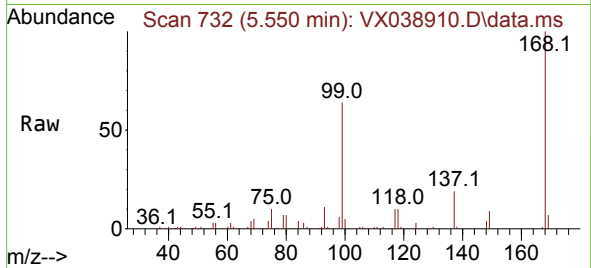




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

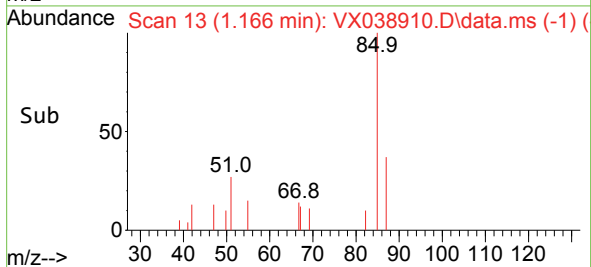
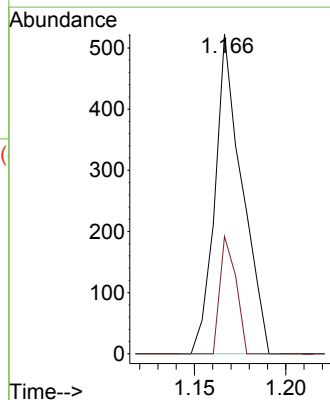
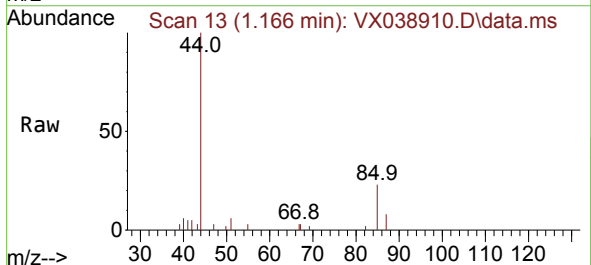
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

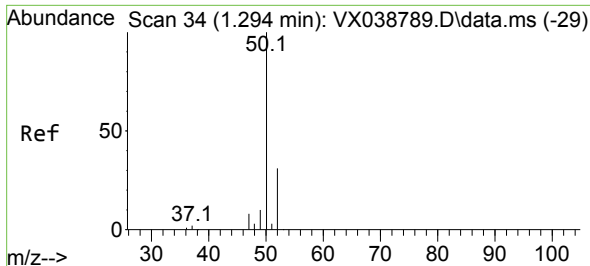
Tgt Ion:168 Resp: 109037  
Ion Ratio Lower Upper  
168 100  
99 64.4 56.6 85.0



#2  
Dichlorodifluoromethane  
Concen: 0.424 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 85 Resp: 539  
Ion Ratio Lower Upper  
85 100  
87 36.7 16.7 50.1

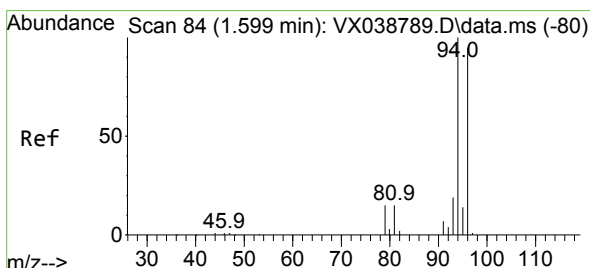
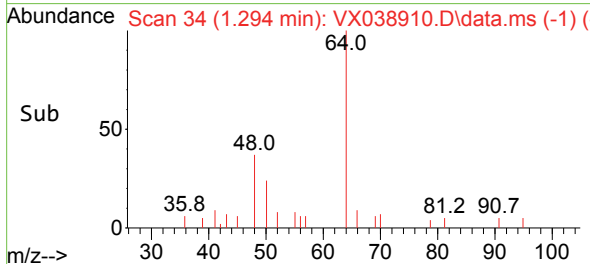
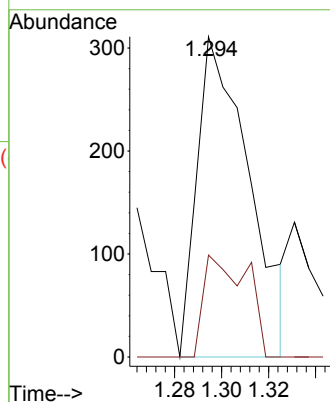
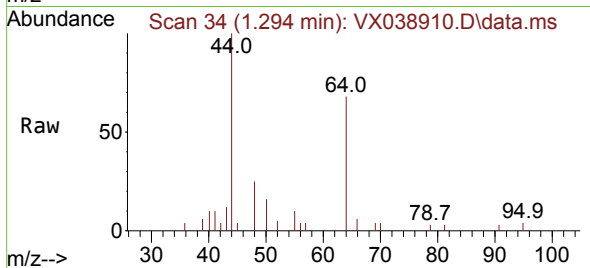




#3  
Chloromethane  
Concen: 0.288 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

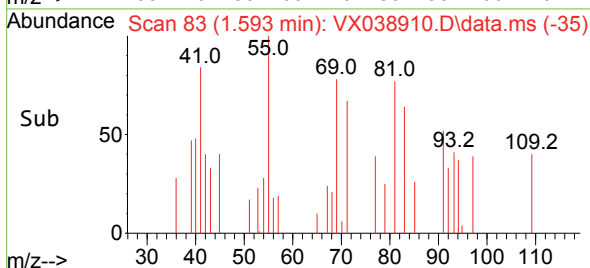
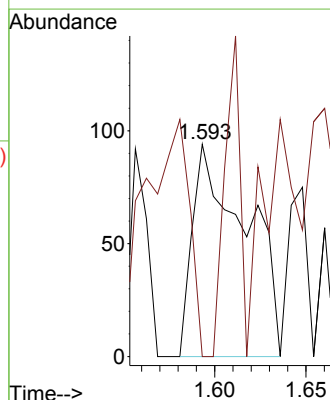
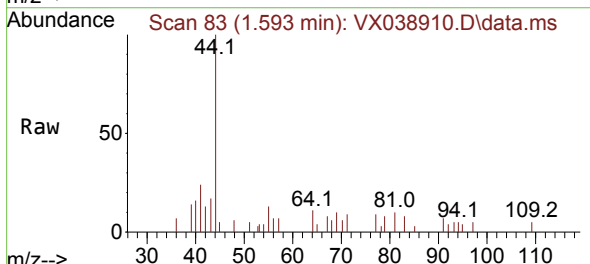
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

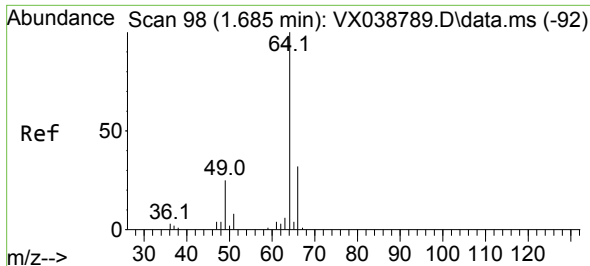
Tgt Ion: 50 Resp: 479  
Ion Ratio Lower Upper  
50 100  
52 31.8 25.5 38.3



#5  
Bromomethane  
Concen: 0.289 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.006 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 94 Resp: 191  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#

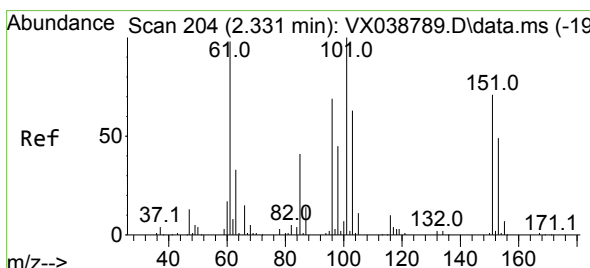
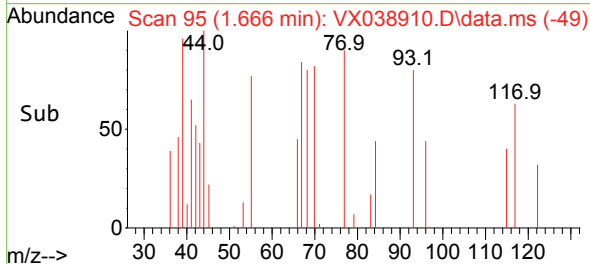
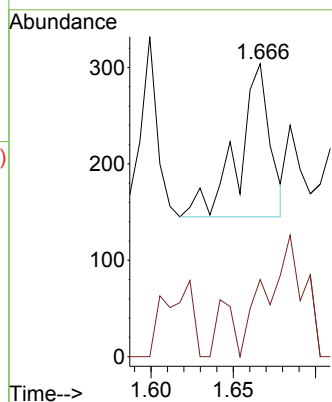
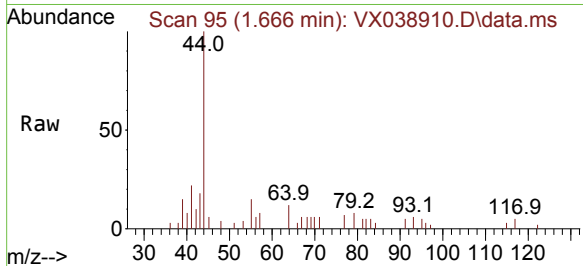




#6  
Chloroethane  
Concen: 0.231 ug/l  
RT: 1.666 min Scan# 91  
Delta R.T. -0.019 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

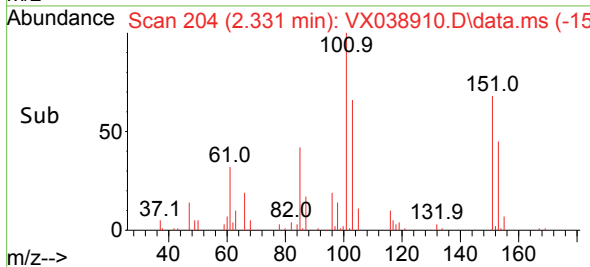
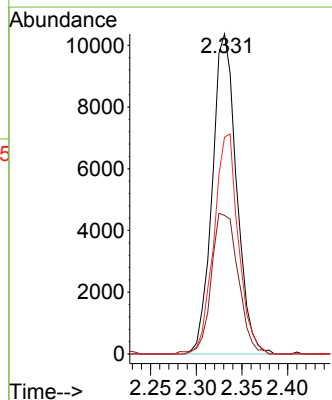
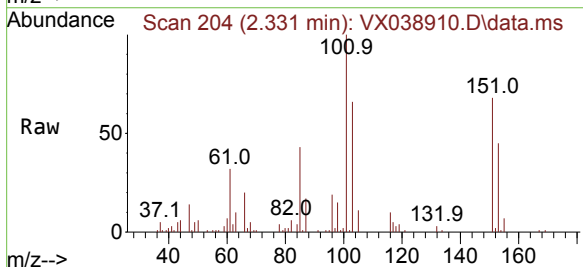
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

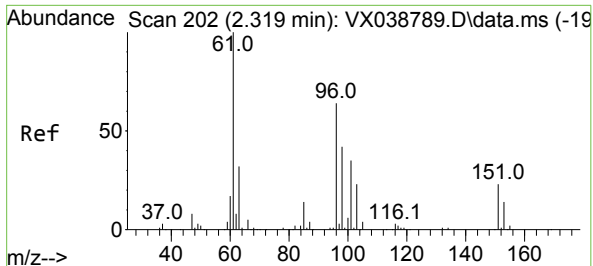
Tgt Ion: 64 Resp: 211  
Ion Ratio Lower Upper  
64 100  
66 15.1 25.1 37.7#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 14.182 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 101 Resp: 19090  
Ion Ratio Lower Upper  
101 100  
85 48.7 37.0 55.6  
151 69.5 58.6 87.8





#12

1,1-Dichloroethene

Concen: 4.246 ug/l

RT: 2.319 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Instrument :

MSVOA\_X

ClientSampleId :

RE137-20231109

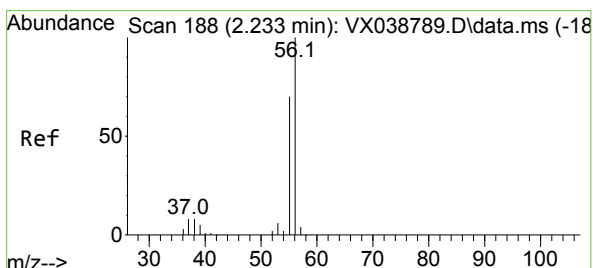
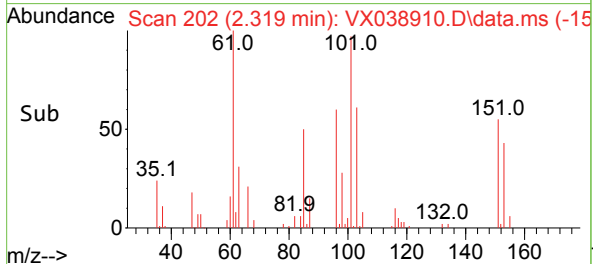
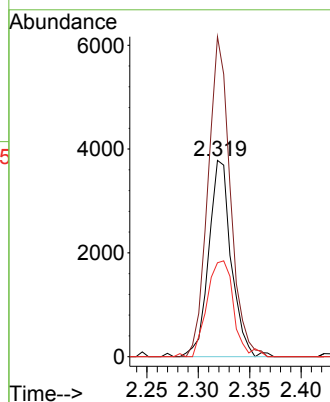
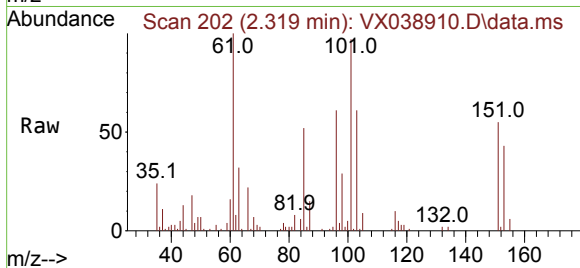
Tgt Ion: 96 Resp: 5771

Ion Ratio Lower Upper

96 100

61 163.0 144.6 216.8

98 47.8 50.4 75.6#



#13

Acrolein

Concen: 0.302 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.012 min

Lab File: VX038910.D

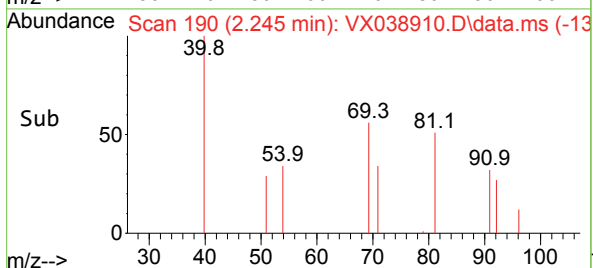
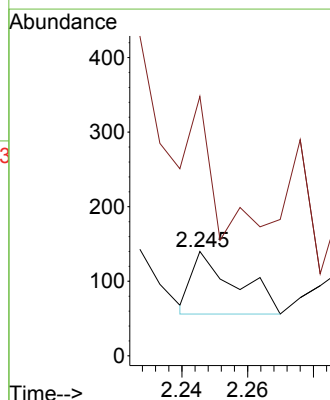
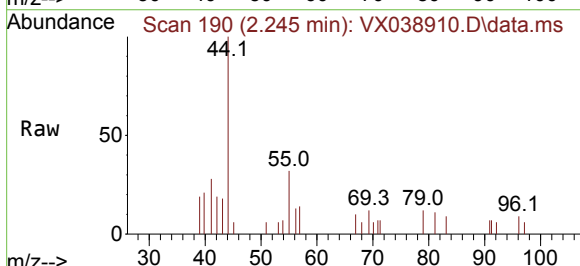
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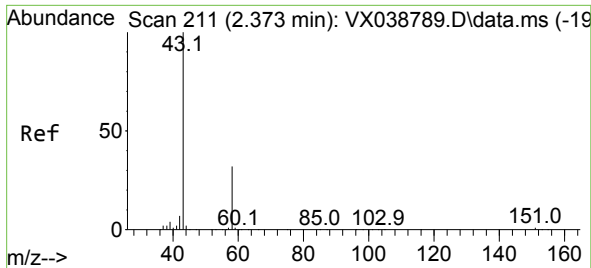
Tgt Ion: 56 Resp: 78

Ion Ratio Lower Upper

56 100

55 410.3 57.1 85.7#





#16

Acetone

Concen: 1.605 ug/l

RT: 2.380 min Scan# 211

Delta R.T. 0.006 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Instrument :

MSVOA\_X

ClientSampleId :

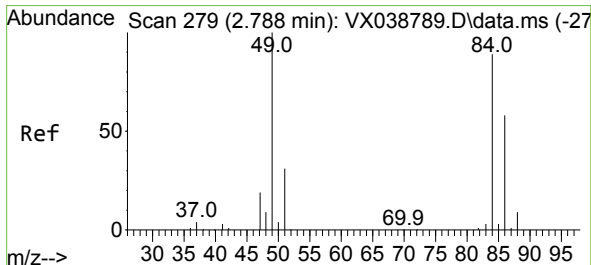
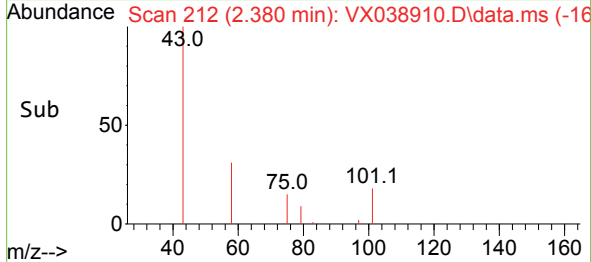
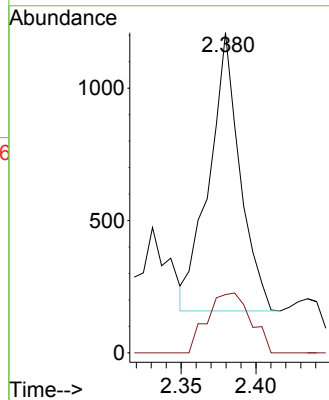
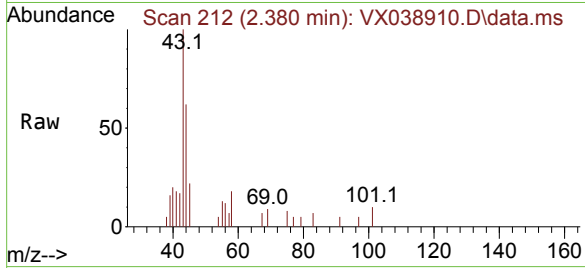
RE137-20231109

Tgt Ion: 43 Resp: 1501

Ion Ratio Lower Upper

43 100

58 20.9 21.9 32.9#



#20

Methylene Chloride

Concen: 0.305 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Tgt Ion: 84 Resp: 515

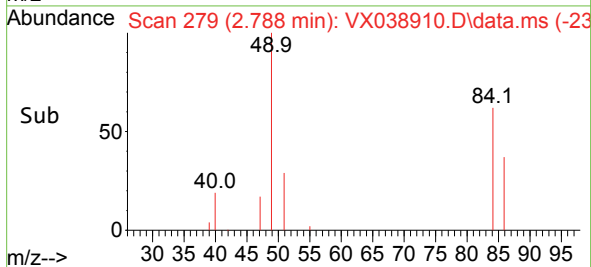
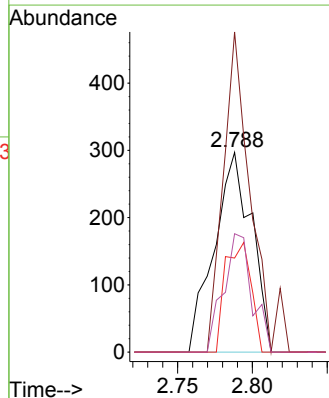
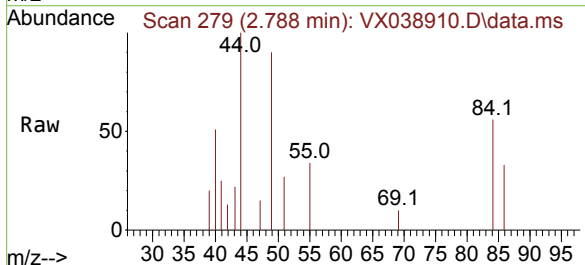
Ion Ratio Lower Upper

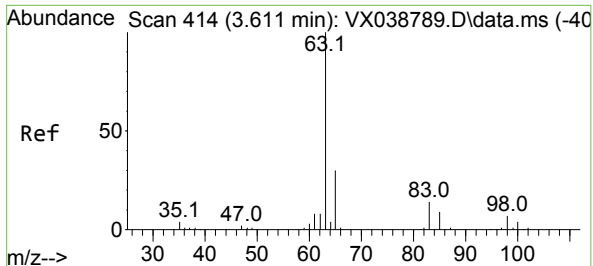
84 100

49 160.3 103.6 155.4#

51 47.1 33.8 50.6

86 59.3 49.4 74.0

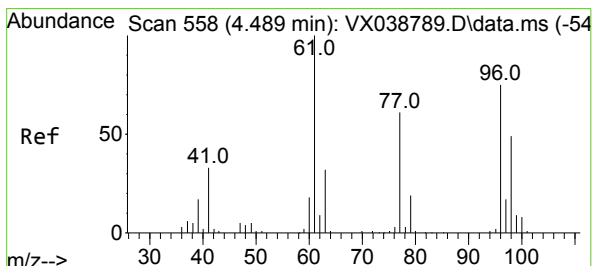
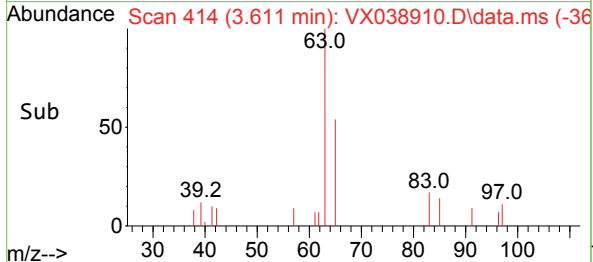
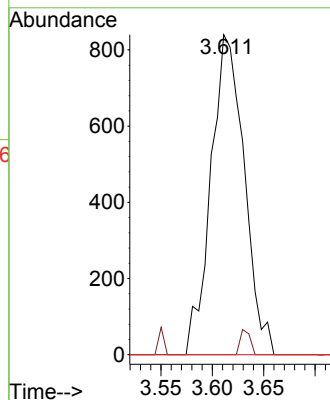
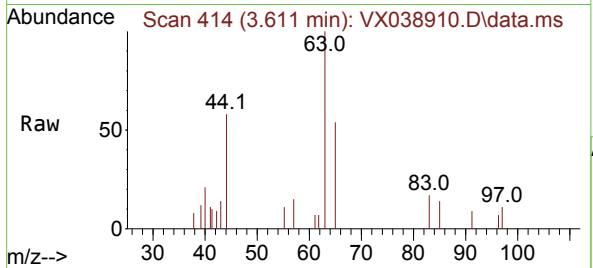




#24  
1,1-Dichloroethane  
Concen: 0.679 ug/l  
RT: 3.611 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

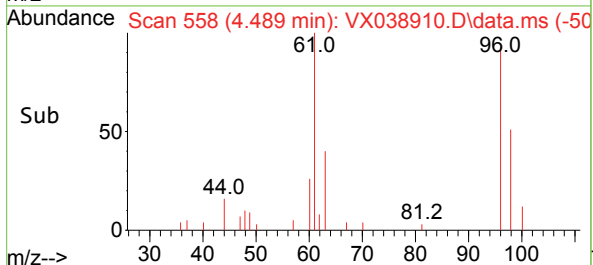
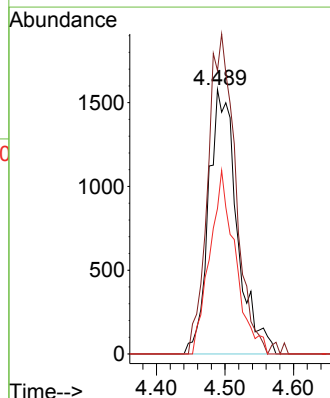
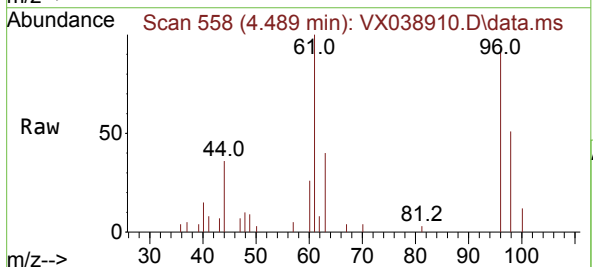
Instrument :  
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RE137-20231109

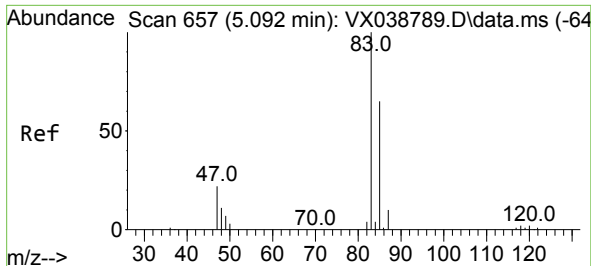
Tgt Ion: 63 Resp: 1894  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.8#  
100 0.0 2.1 6.5#



#27  
cis-1,2-Dichloroethene  
Concen: 2.604 ug/l  
RT: 4.489 min Scan# 558  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 96 Resp: 4551  
Ion Ratio Lower Upper  
96 100  
61 117.8 0.0 312.2  
98 62.7 0.0 129.0

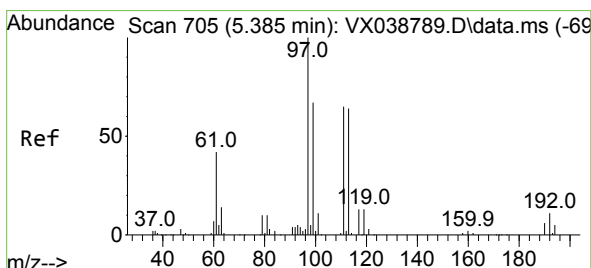
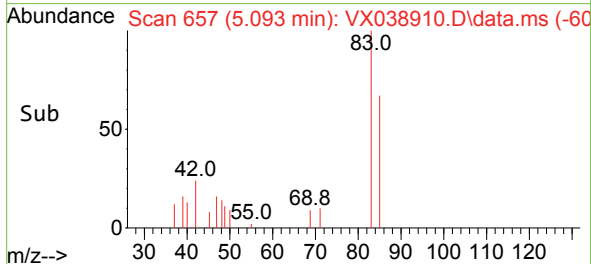
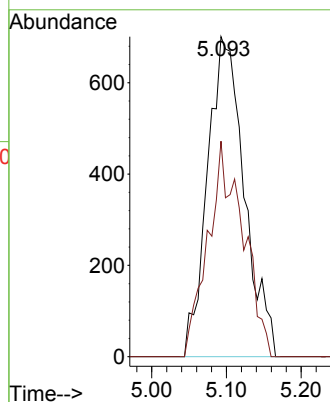
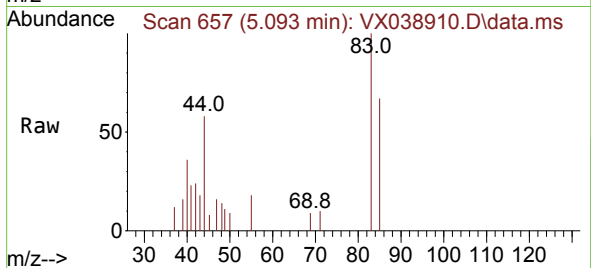




#30  
Chloroform  
Concen: 0.878 ug/l  
RT: 5.093 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

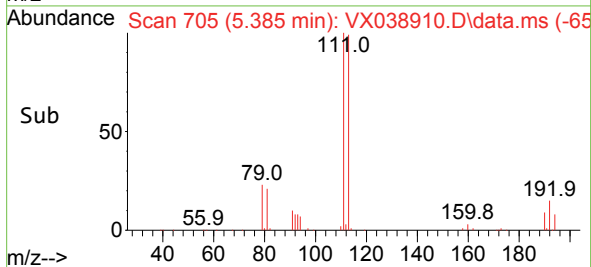
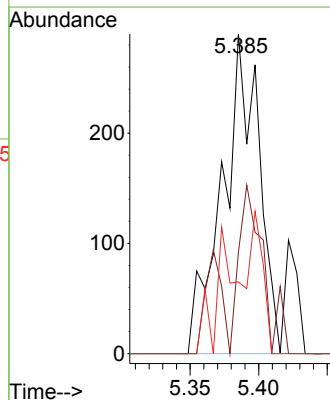
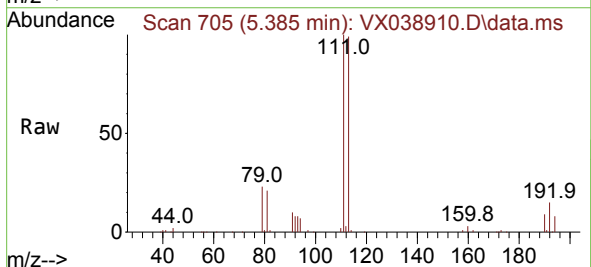
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

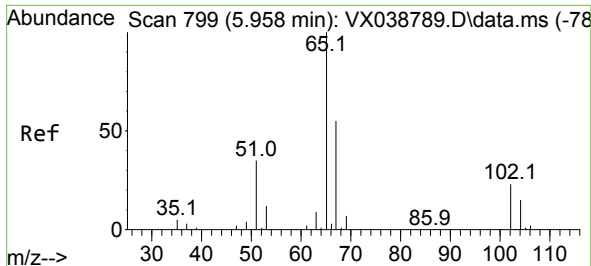
Tgt Ion: 83 Resp: 2392  
Ion Ratio Lower Upper  
83 100  
85 67.3 50.3 75.5



#32  
1,1,1-Trichloroethane  
Concen: 0.227 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 97 Resp: 535  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.1 76.7#  
61 24.7 36.4 54.6#





#33

1,2-Dichloroethane-d4

Concen: 48.585 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Instrument :

MSVOA\_X

ClientSampleId :

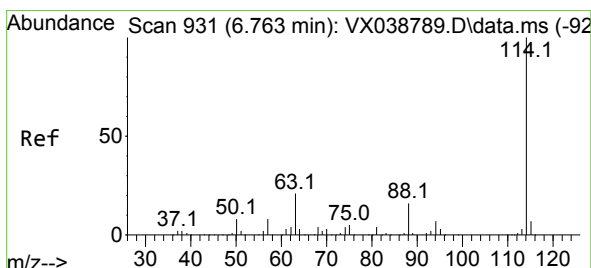
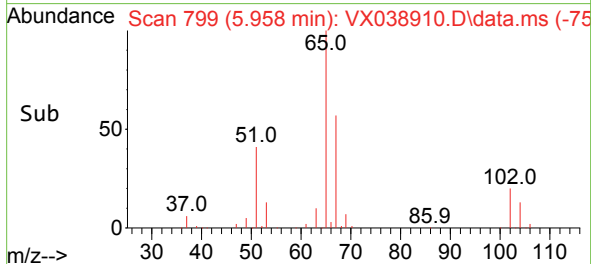
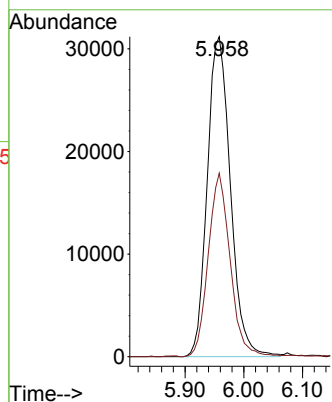
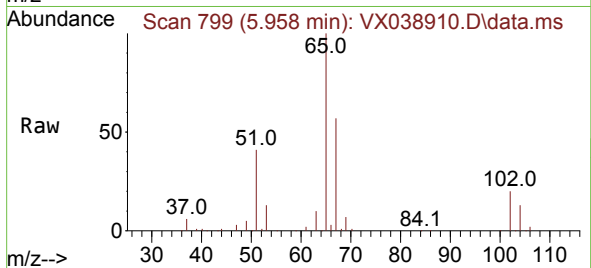
RE137-20231109

Tgt Ion: 65 Resp: 85362

Ion Ratio Lower Upper

65 100

67 54.3 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: VX038910.D

Acq: 18 Nov 2023 05:30

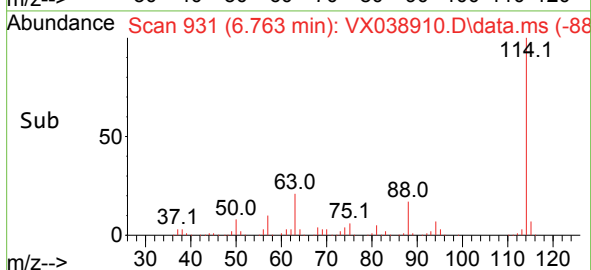
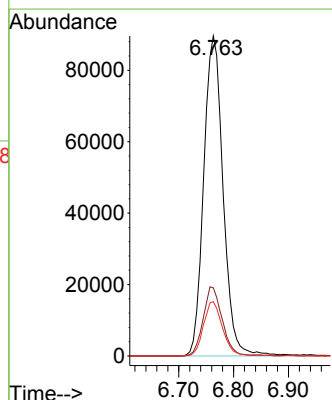
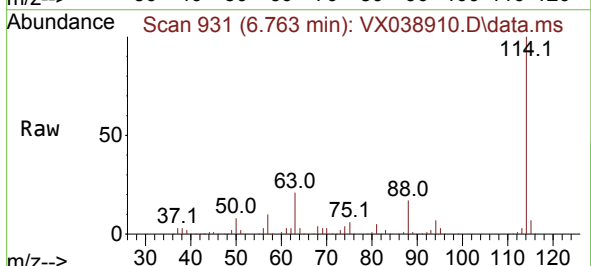
Tgt Ion: 114 Resp: 219855

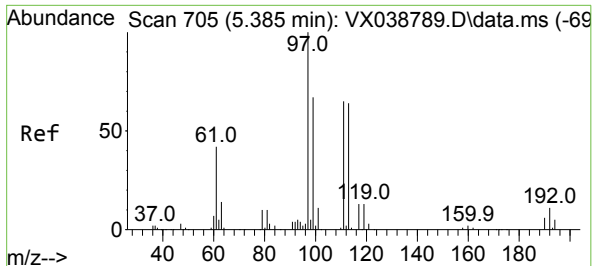
Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.0

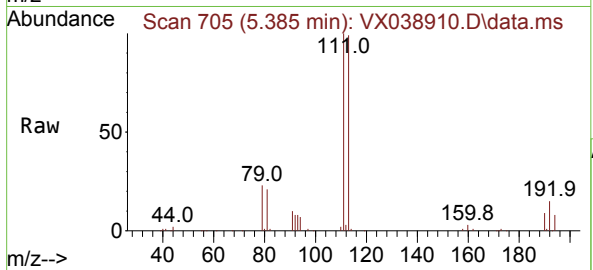
88 16.9 0.0 36.6



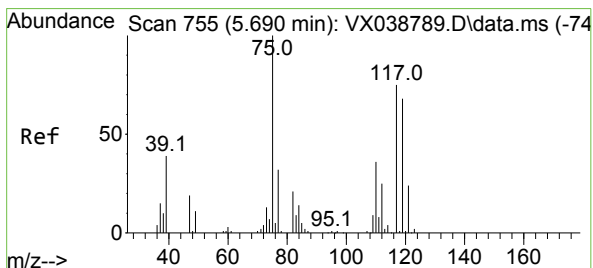
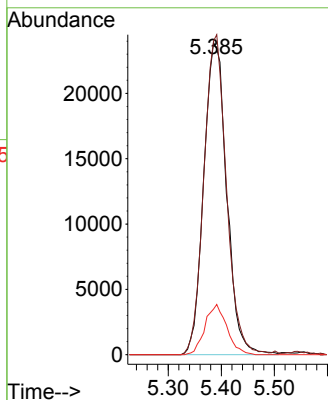
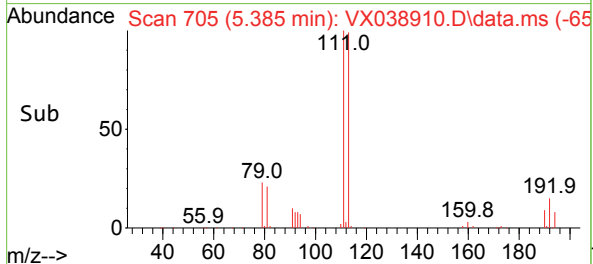


#35  
Dibromofluoromethane  
Concen: 45.269 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

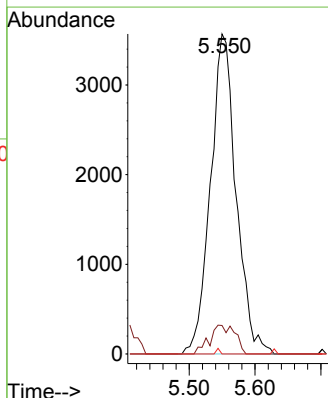
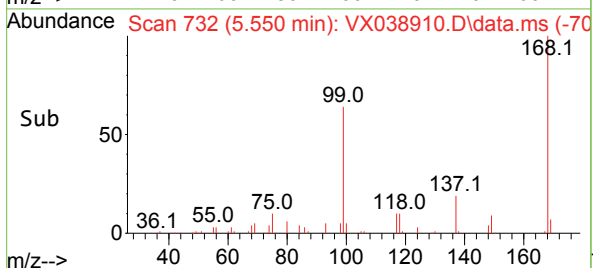
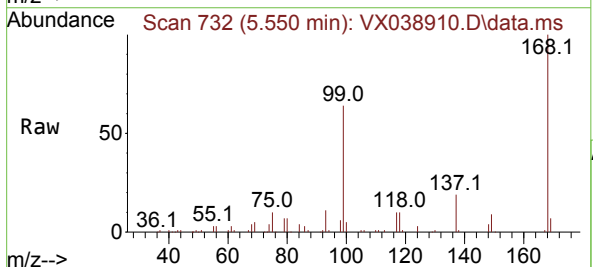


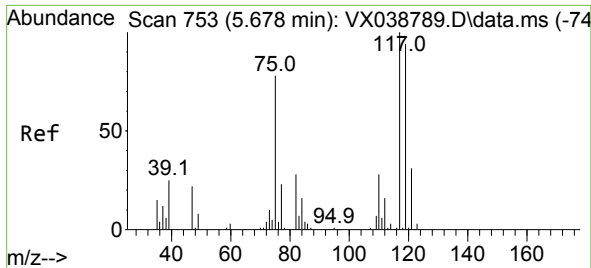
Tgt Ion:113 Resp: 71880  
Ion Ratio Lower Upper  
113 100  
111 100.6 82.9 124.3  
192 15.3 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.253 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 75 Resp: 9679  
Ion Ratio Lower Upper  
75 100  
110 9.0 17.0 50.9#  
77 0.2 24.7 37.1#

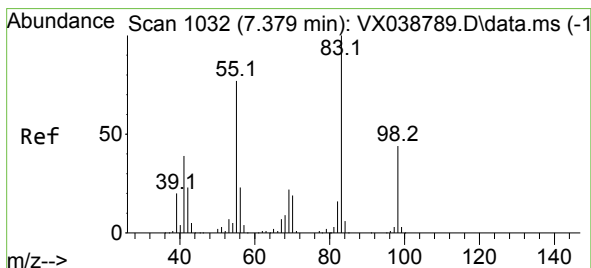
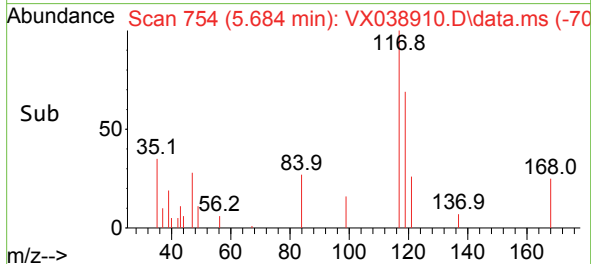
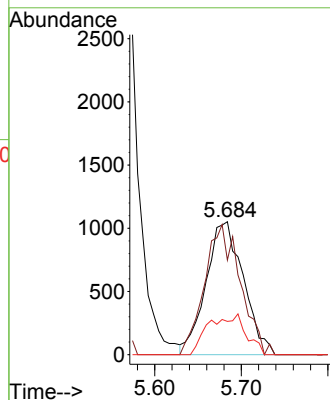
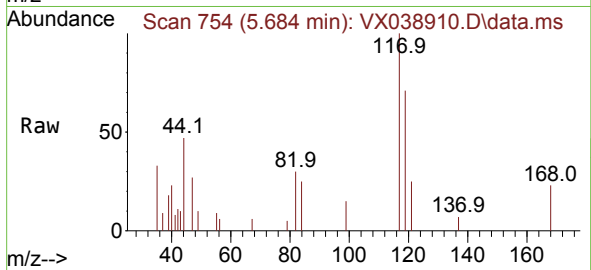




#38  
Carbon Tetrachloride  
Concen: 1.500 ug/l  
RT: 5.684 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

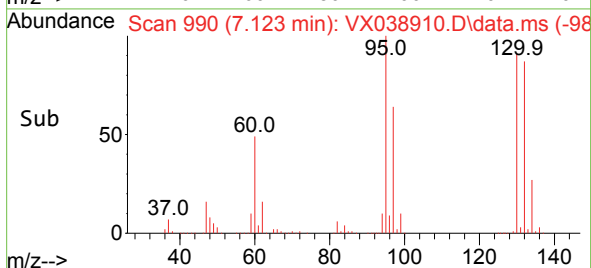
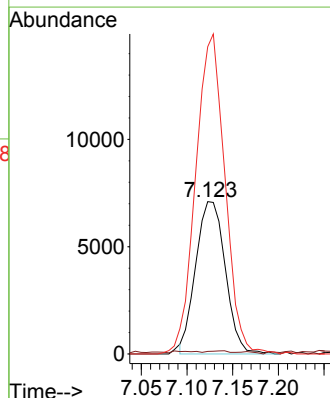
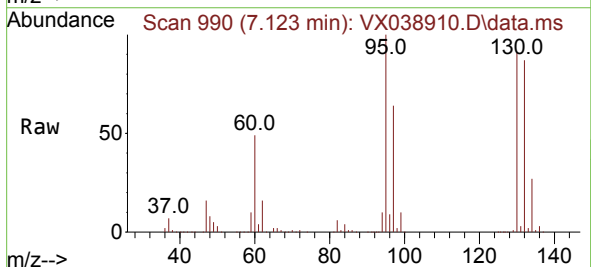
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

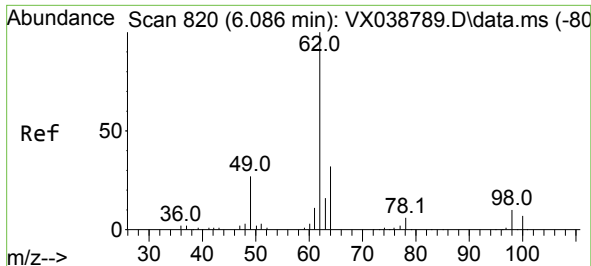
Tgt Ion:117 Resp: 3155  
Ion Ratio Lower Upper  
117 100  
119 71.1 78.2 117.2#  
121 25.0 24.4 36.6



#39  
Methylcyclohexane  
Concen: 5.386 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.256 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 83 Resp: 15989  
Ion Ratio Lower Upper  
83 100  
55 0.7 64.6 97.0#  
98 201.7 36.7 55.1#





#42

1,2-Dichloroethane

Concen: 0.202 ug/l

RT: 6.098 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Instrument :

MSVOA\_X

ClientSampleId :

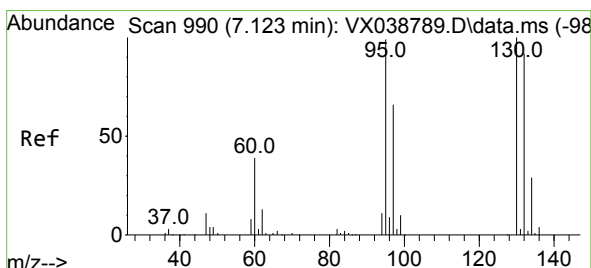
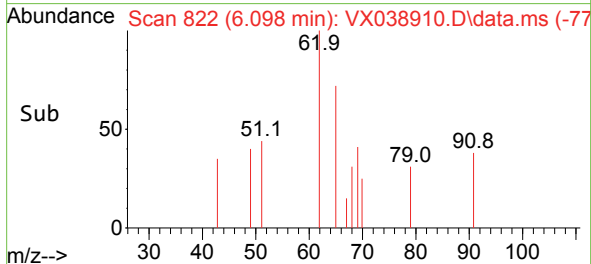
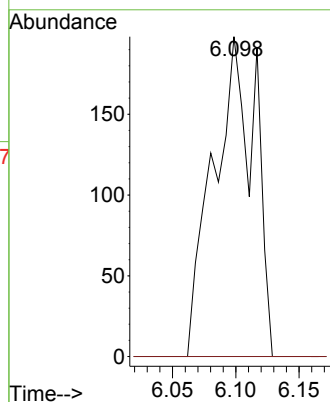
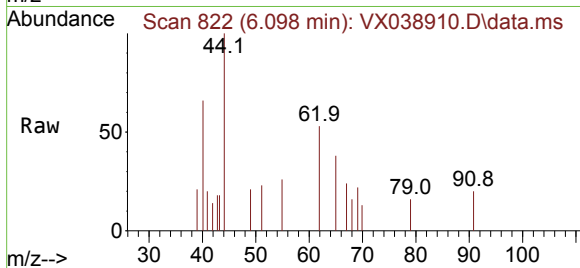
RE137-20231109

Tgt Ion: 62 Resp: 450

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.0



#44

Trichloroethene

Concen: 738.121 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.006 min

Lab File: VX038910.D

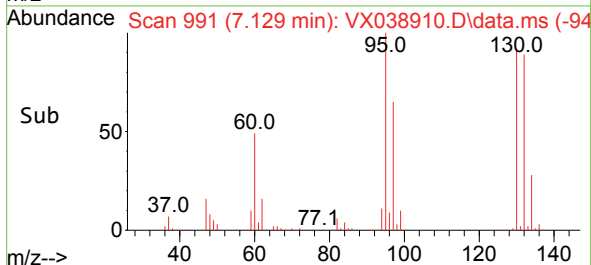
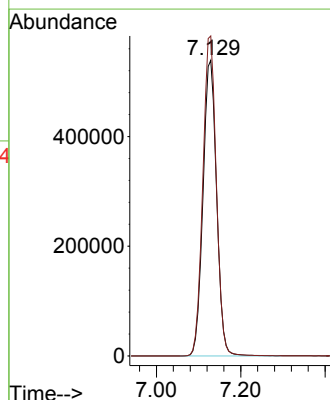
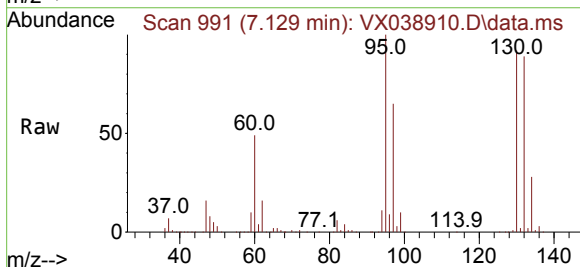
Acq: 18 Nov 2023 05:30

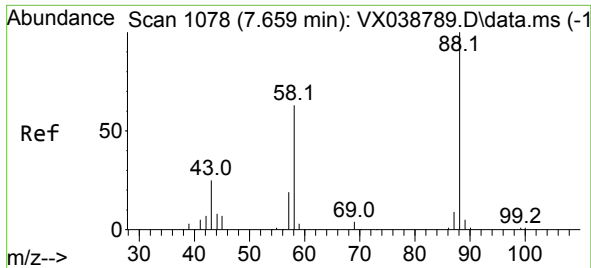
Tgt Ion:130 Resp: 1209322

Ion Ratio Lower Upper

130 100

95 108.2 0.0 204.4

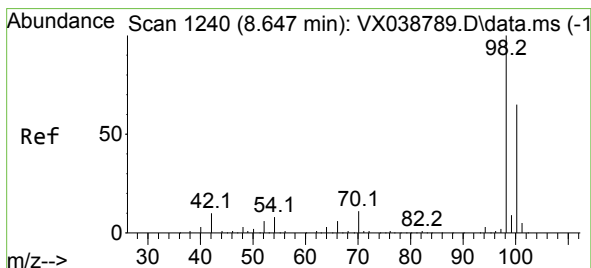
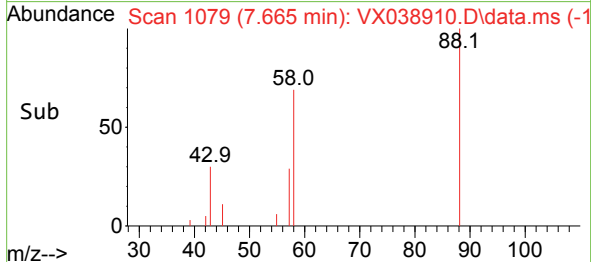
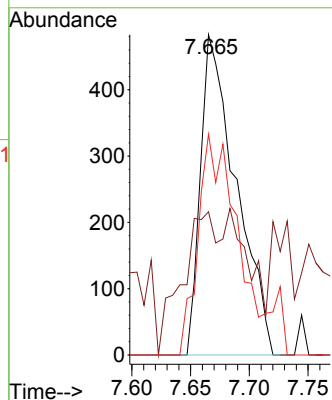
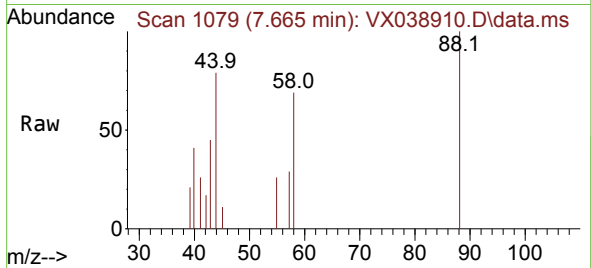




#49  
1,4-Dioxane  
Concen: 22.865 ug/l  
RT: 7.665 min Scan# 1078  
Delta R.T. 0.006 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

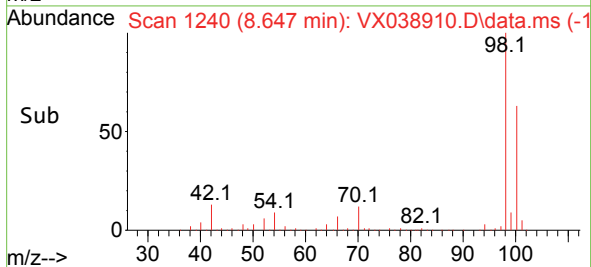
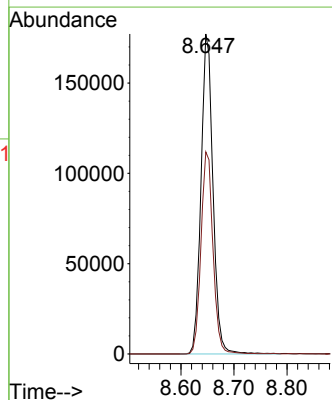
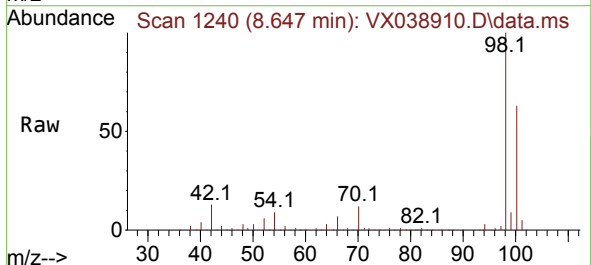
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

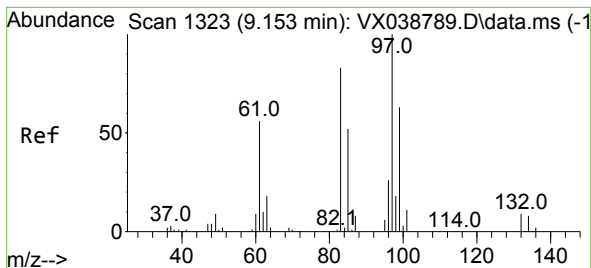
Tgt Ion: 88 Resp: 1017  
Ion Ratio Lower Upper  
88 100  
43 42.6 0.0 0.0#  
58 75.8 60.1 90.1



#50  
Toluene-d8  
Concen: 45.718 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 98 Resp: 277745  
Ion Ratio Lower Upper  
98 100  
100 63.7 53.1 79.7





#55

1,1,2-Trichloroethane

Concen: 0.534 ug/l

RT: 9.159 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Instrument :

MSVOA\_X

ClientSampleId :

RE137-20231109

Tgt Ion: 97 Resp: 931

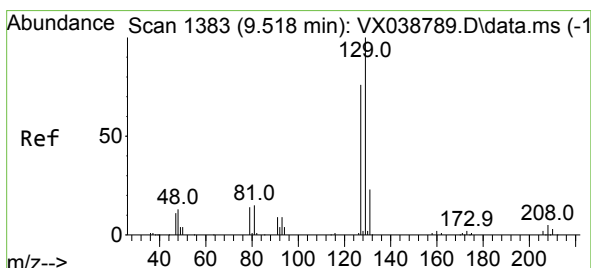
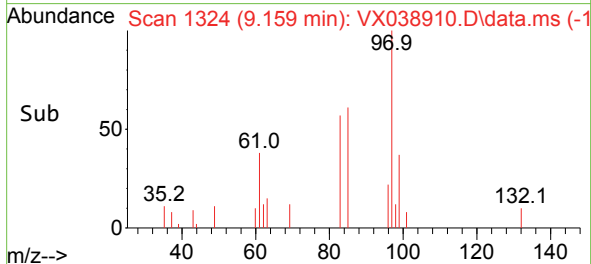
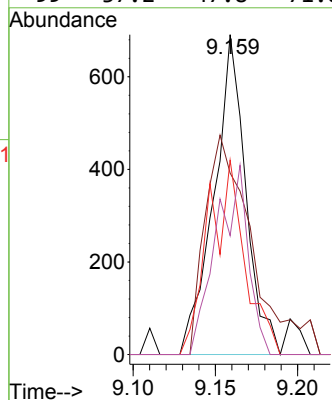
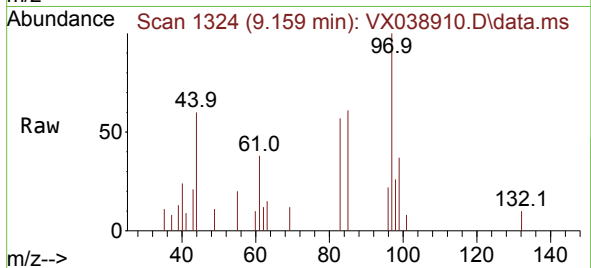
Ion Ratio Lower Upper

97 100

83 56.7 65.8 98.8#

85 60.8 41.6 62.4

99 37.2 47.8 71.8#



#60

Dibromochloromethane

Concen: 3.412 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX038910.D

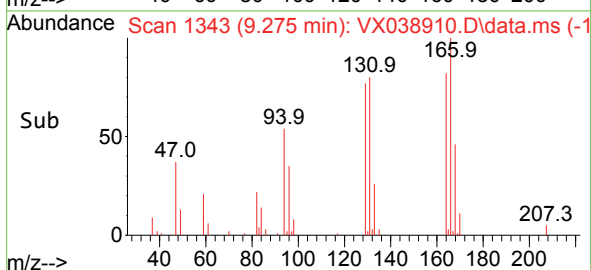
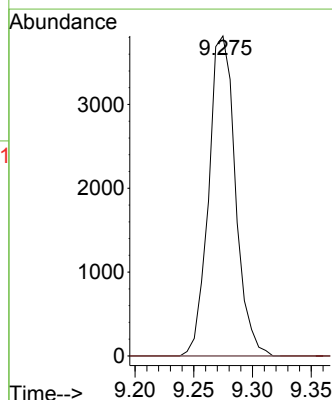
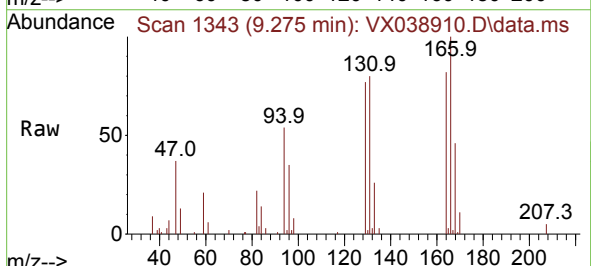
Acq: 18 Nov 2023 05:30

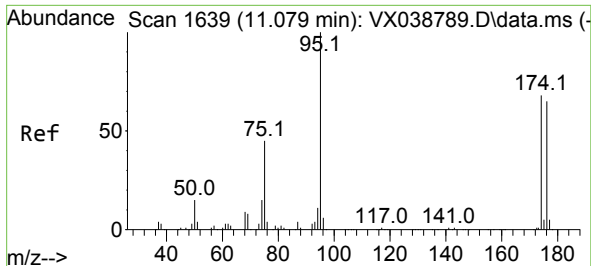
Tgt Ion: 129 Resp: 6046

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#

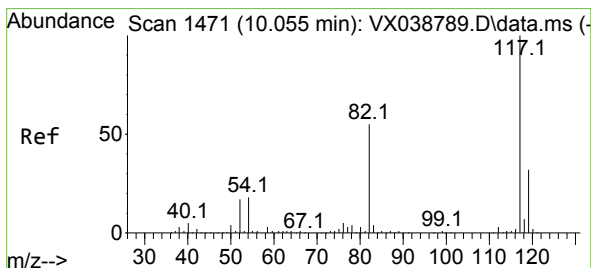
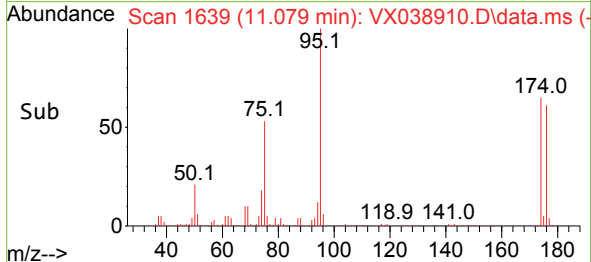
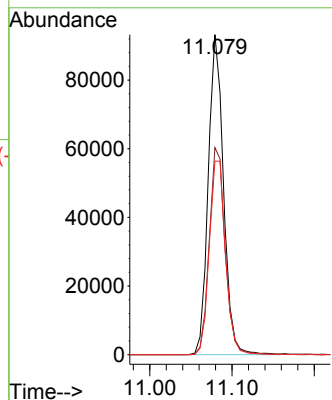
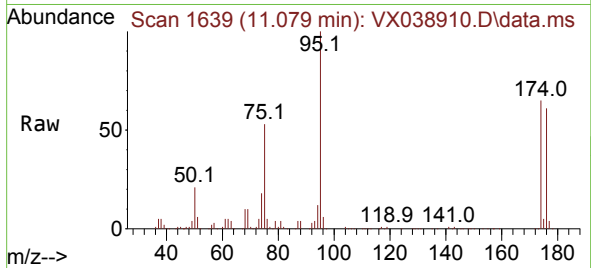




#62  
4-Bromofluorobenzene  
Concen: 49.391 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

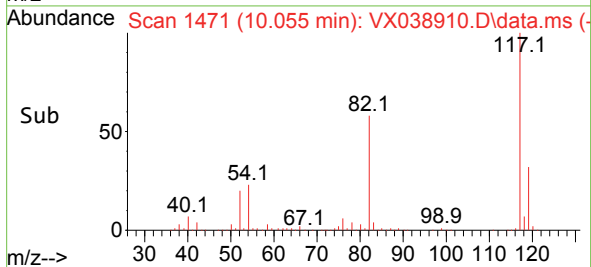
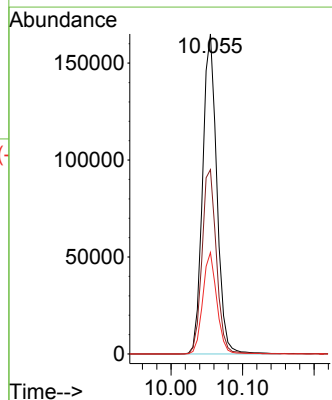
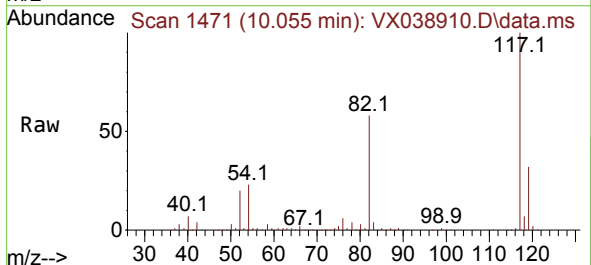
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

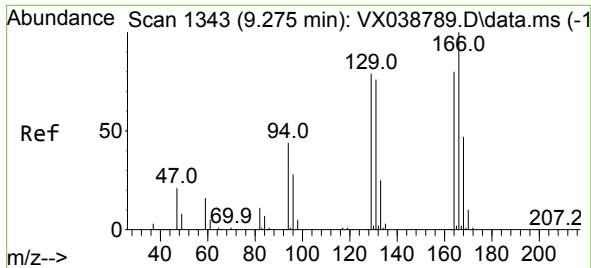
Tgt Ion: 95 Resp: 120116  
Ion Ratio Lower Upper  
95 100  
174 67.4 0.0 135.6  
176 64.4 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion: 117 Resp: 227942  
Ion Ratio Lower Upper  
117 100  
82 57.6 46.2 69.4  
119 31.7 25.5 38.3



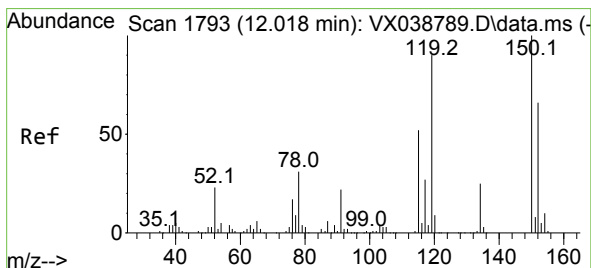
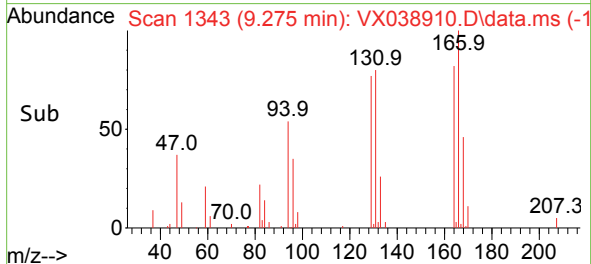
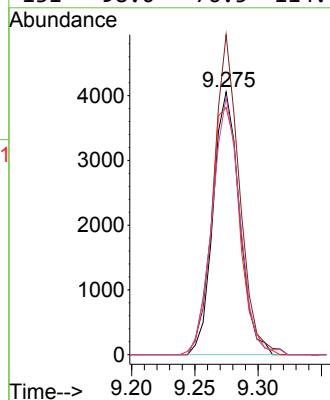
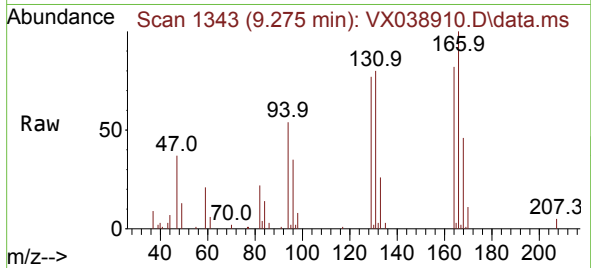


#64  
Tetrachloroethene  
Concen: 4.150 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-20231109

Tgt Ion:164 Resp: 5880

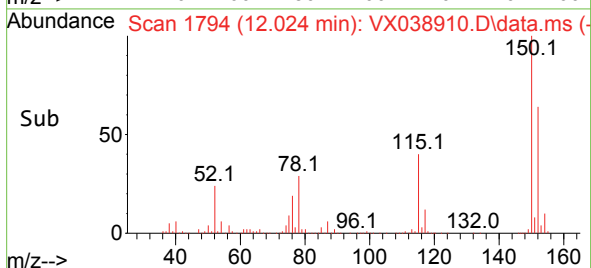
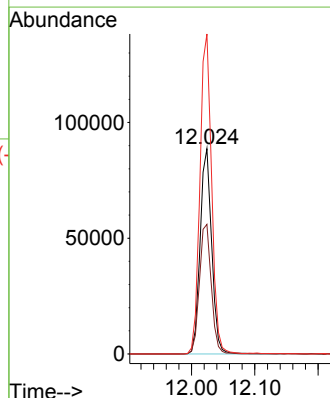
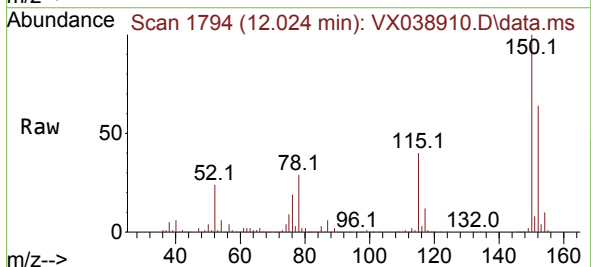
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 121.8 | 102.7 | 154.1 |
| 129 | 94.1  | 80.4  | 120.6 |
| 131 | 98.0  | 76.5  | 114.7 |

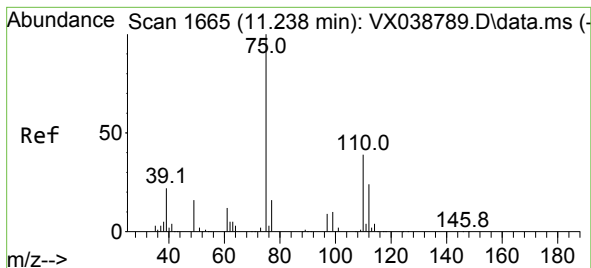


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.006 min  
Lab File: VX038910.D  
Acq: 18 Nov 2023 05:30

Tgt Ion:152 Resp: 112986

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 64.9  | 43.3  | 129.9 |
| 150 | 157.2 | 0.0   | 345.0 |





#76

1,2,3-Trichloropropane

Concen: 22.145 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Instrument :

MSVOA\_X

ClientSampleId :

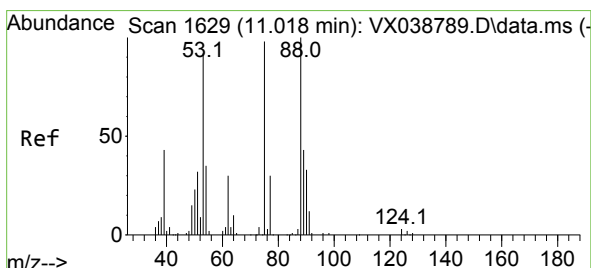
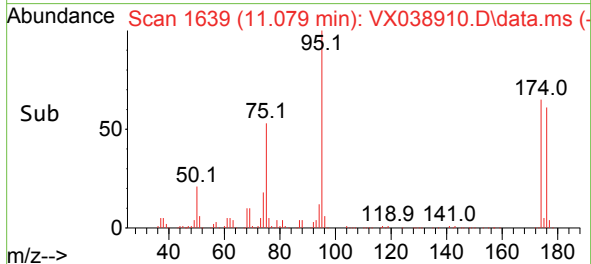
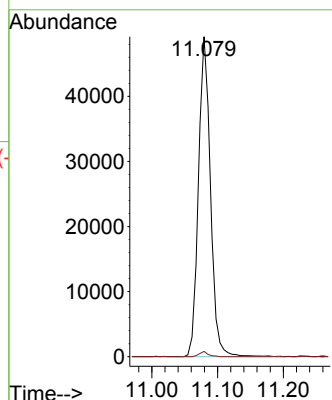
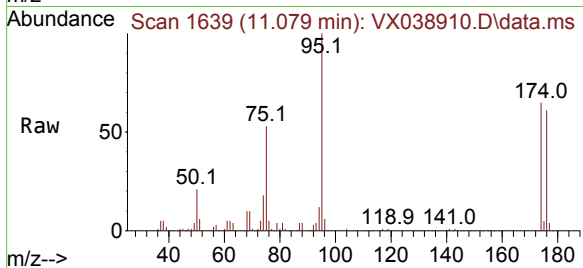
RE137-20231109

Tgt Ion: 75 Resp: 62427

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 49.120 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038910.D

Acq: 18 Nov 2023 05:30

Tgt Ion: 75 Resp: 62427

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

