

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012324\  
 Data File : VX039901.D  
 Acq On : 23 Jan 2024 11:47  
 Operator : JC/MD  
 Sample : P1196-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE137-SP302-B-20240118

Quant Time: Jan 24 02:29:59 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 03:51:26 2024  
 Response via : Initial Calibration

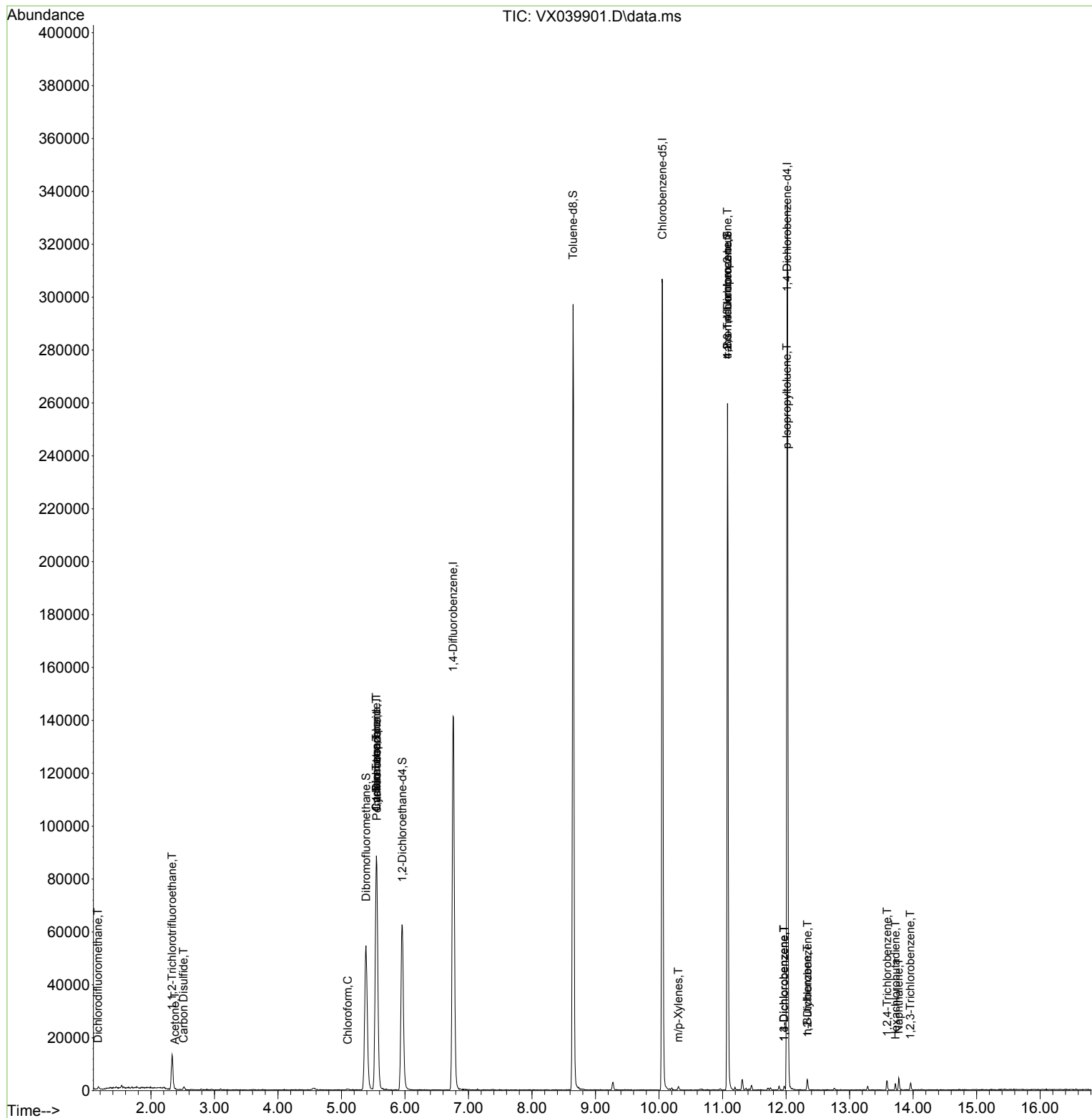
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 77976    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 141223   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 135197   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 64917    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 61436    | 47.034    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 94.060%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 46786    | 49.186    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 98.380%  |
| 50) Toluene-d8                | 8.647  | 98    | 171639   | 47.844    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 95.680%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 66601    | 47.474    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 94.940%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166  | 85    | 275      | 0.273     | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 5290     | 5.440     | ug/l   | 98       |
| 13) Acrolein                  | 2.233  | 56    | 61       | Below Cal | #      | 14       |
| 16) Acetone                   | 2.380  | 43    | 593      | 0.807     | ug/l # | 81       |
| 17) Carbon Disulfide          | 2.514  | 76    | 927      | 0.344     | ug/l # | 76       |
| 30) Chloroform                | 5.099  | 83    | 495      | 0.259     | ug/l # | 79       |
| 31) Cyclohexane               | 5.550  | 56    | 2152     | 1.248     | ug/l # | 28       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 7204     | 4.866     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 8715     | 6.427     | ug/l # | 14       |
| 68) m/p-Xylenes               | 10.305 | 106   | 437      | 0.227     | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 37782    | 22.449    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 37782    | 65.002    | ug/l # | 5        |
| 86) p-Isopropyltoluene        | 12.012 | 119   | 904      | 0.208     | ug/l # | 65       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146   | 561      | 0.254     | ug/l   | 87       |
| 88) 1,4-Dichlorobenzene       | 11.969 | 146   | 561      | 0.246     | ug/l   | 88       |
| 89) n-Butylbenzene            | 12.335 | 91    | 1782     | 0.424     | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 12.341 | 146   | 490      | 0.225     | ug/l # | 83       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 937      | 0.703     | ug/l   | 86       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 339      | 0.612     | ug/l   | 93       |
| 95) Naphthalene               | 13.774 | 128   | 2967     | 0.605     | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180   | 732      | 0.544     | ug/l   | 83       |
| -----                         |        |       |          |           |        |          |

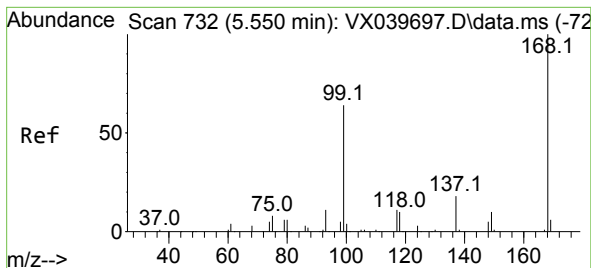
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Jan 11 03:51:26 2024  
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: VX039901.D

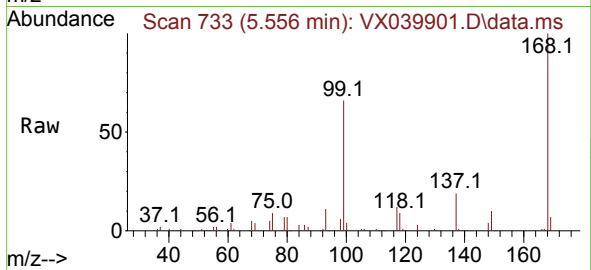
Acq: 23 Jan 2024 11:47

Instrument :

MSVOA\_X

ClientSampleId :

RE137-SP302-B-20240118

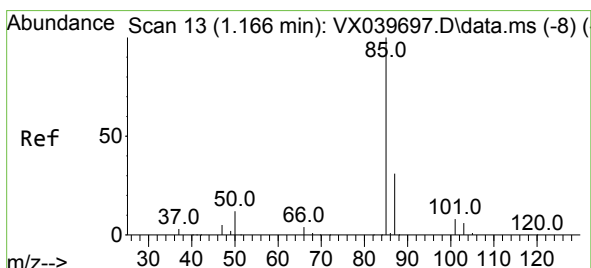
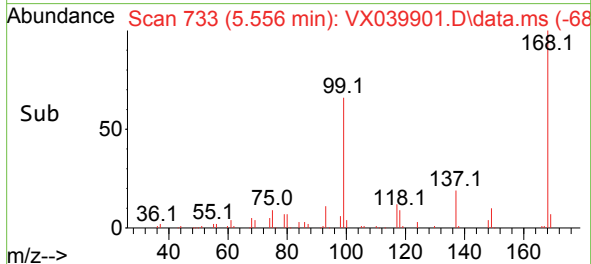
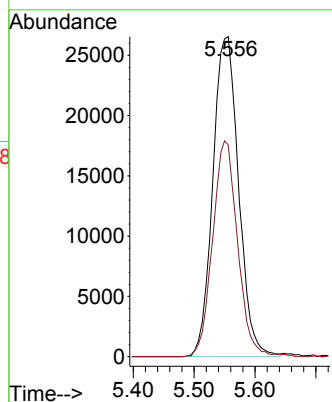


Tgt Ion:168 Resp: 77976

Ion Ratio Lower Upper

168 100

99 66.2 56.6 85.0



#2

Dichlorodifluoromethane

Concen: 0.273 ug/l

RT: 1.166 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX039901.D

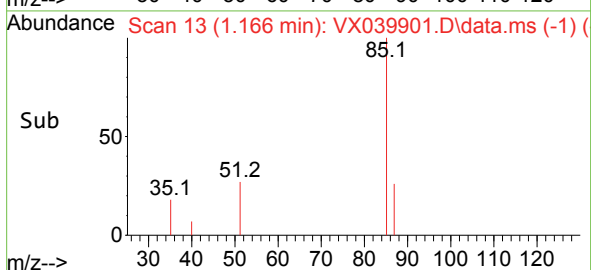
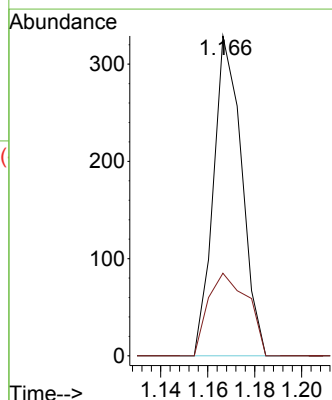
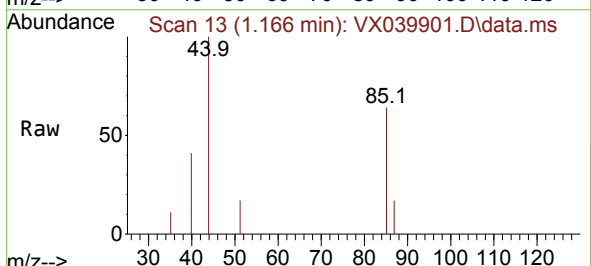
Acq: 23 Jan 2024 11:47

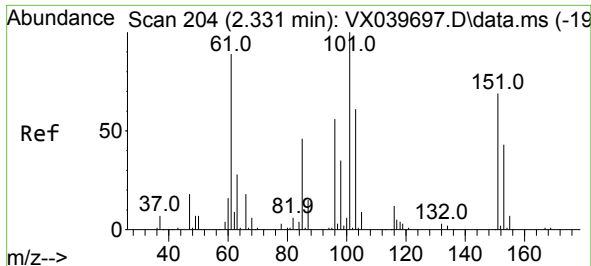
Tgt Ion: 85 Resp: 275

Ion Ratio Lower Upper

85 100

87 25.8 16.7 50.1

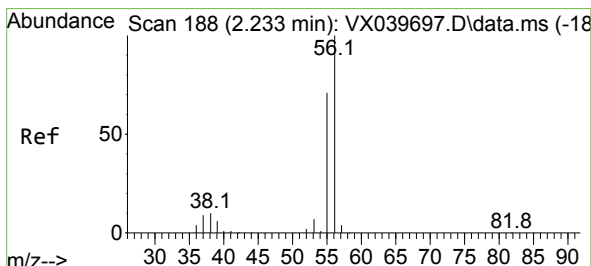
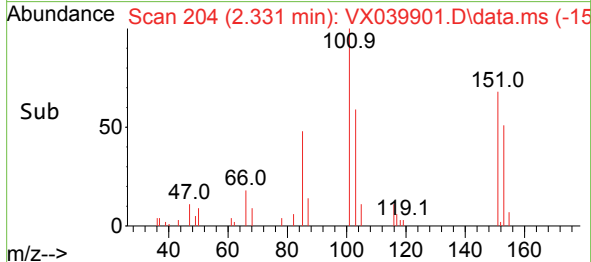
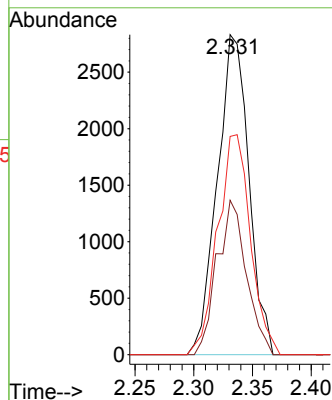
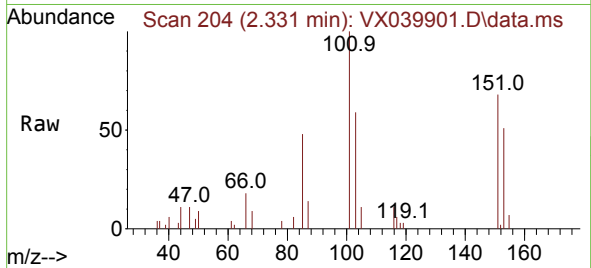




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.440 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

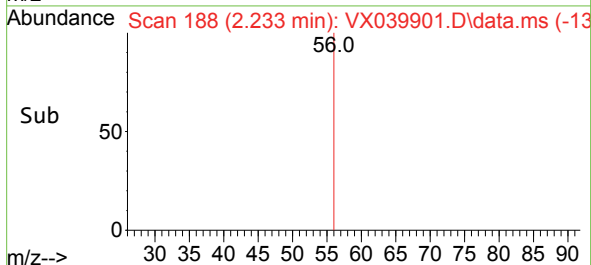
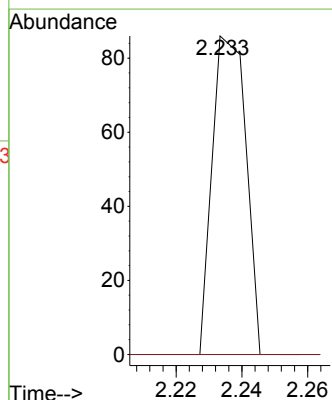
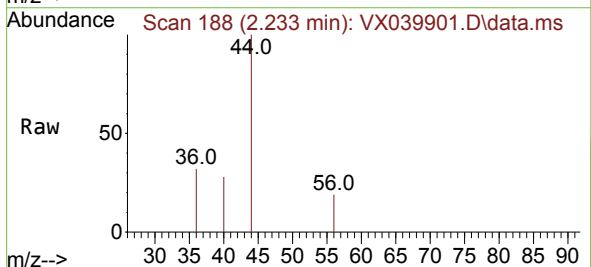
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-SP302-B-20240118

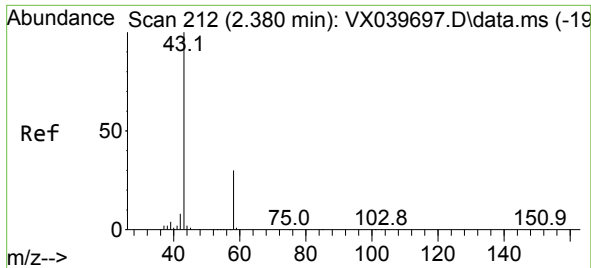
Tgt Ion:101 Resp: 5290  
Ion Ratio Lower Upper  
101 100  
85 44.9 37.0 55.6  
151 71.4 58.6 87.8



#13  
Acrolein  
Concen: Below Cal  
RT: 2.233 min Scan# 188  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Tgt Ion: 56 Resp: 61  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#

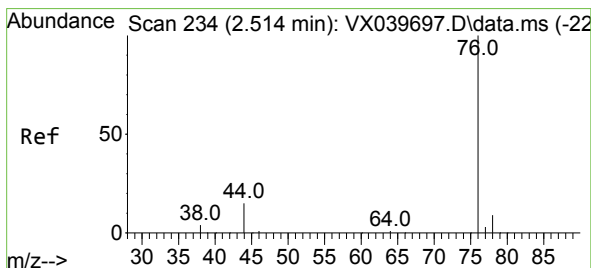
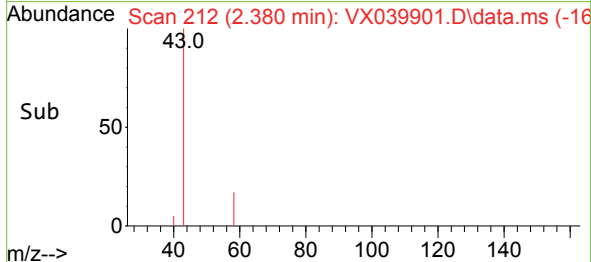
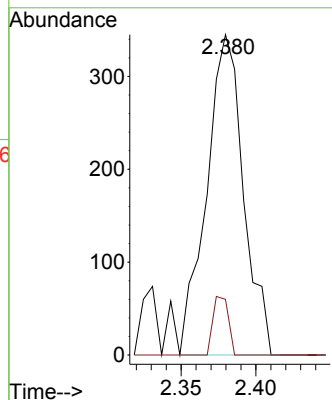
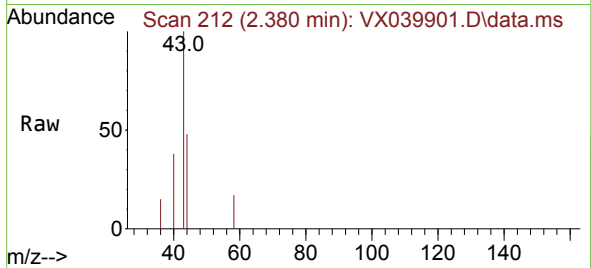




#16  
Acetone  
Concen: 0.807 ug/l  
RT: 2.380 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

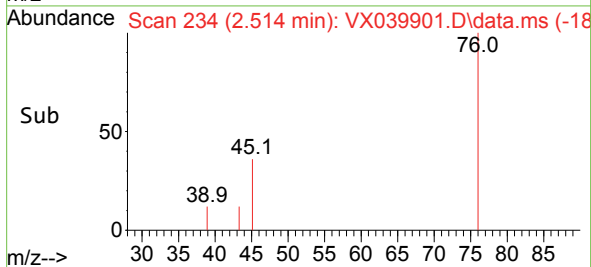
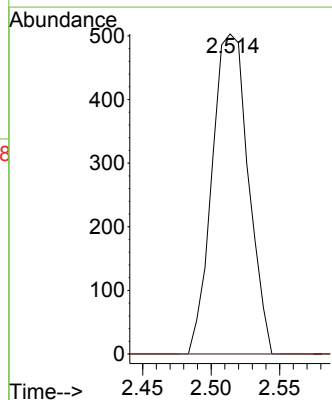
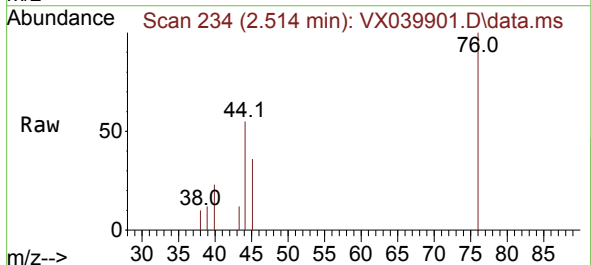
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-SP302-B-20240118

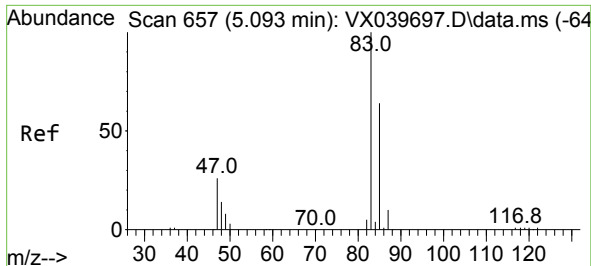
Tgt Ion: 43 Resp: 593  
Ion Ratio Lower Upper  
43 100  
58 17.4 21.9 32.9#



#17  
Carbon Disulfide  
Concen: 0.344 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Tgt Ion: 76 Resp: 927  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.6#





#30

Chloroform

Concen: 0.259 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

Instrument :

MSVOA\_X

ClientSampleId :

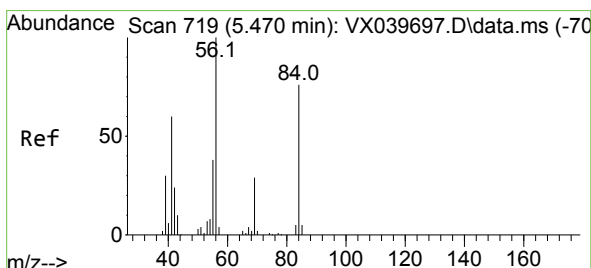
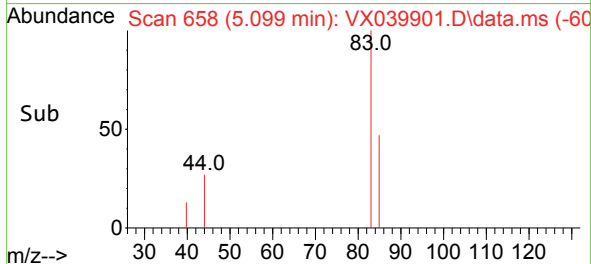
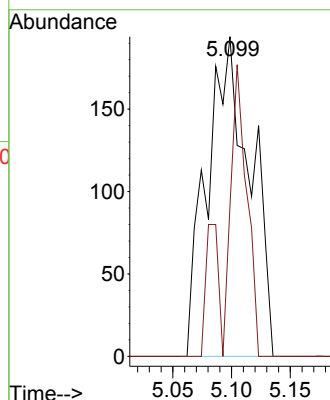
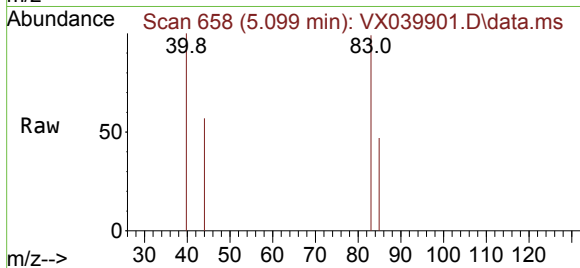
RE137-SP302-B-20240118

Tgt Ion: 83 Resp: 495

Ion Ratio Lower Upper

83 100

85 46.9 50.3 75.5#



#31

Cyclohexane

Concen: 1.248 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

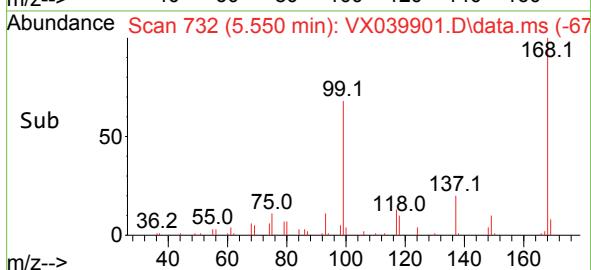
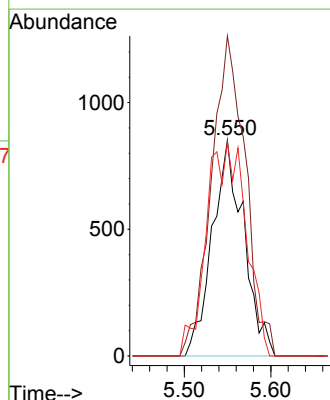
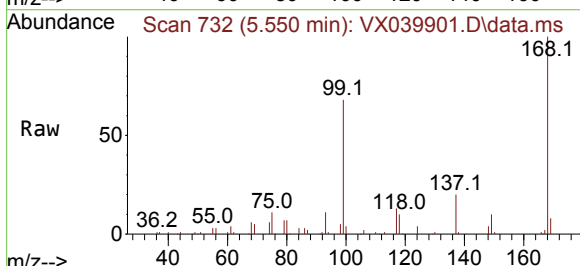
Tgt Ion: 56 Resp: 2152

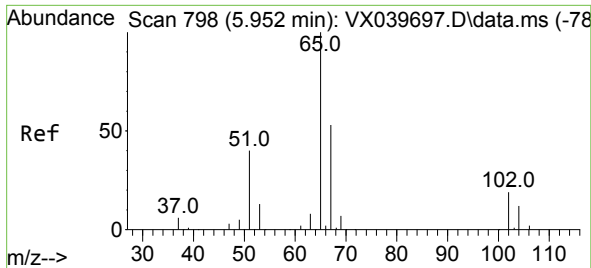
Ion Ratio Lower Upper

56 100

69 148.2 23.4 35.2#

84 99.1 65.9 98.9#

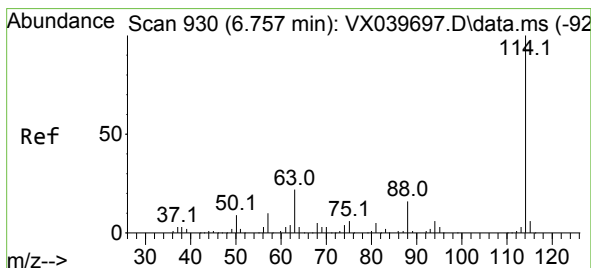
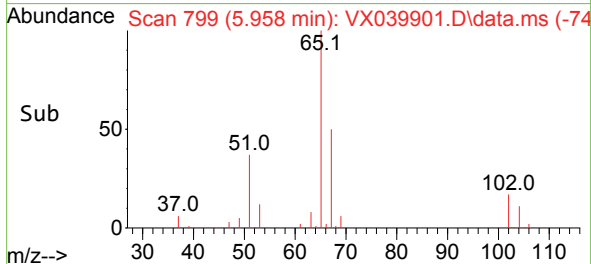
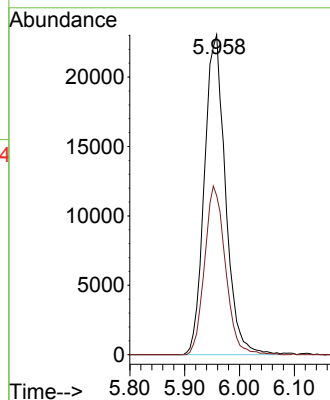
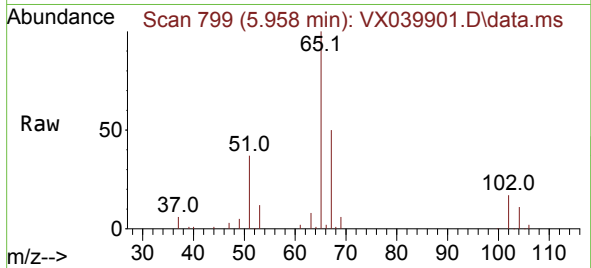




#33  
1,2-Dichloroethane-d4  
Concen: 47.034 ug/l  
RT: 5.958 min Scan# 798  
Delta R.T. 0.006 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

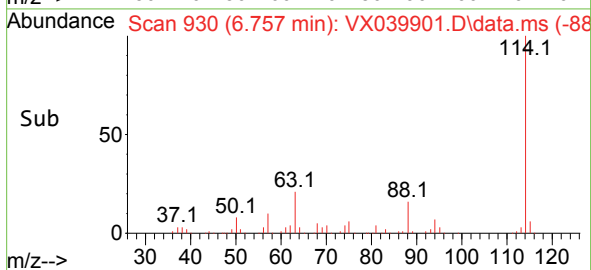
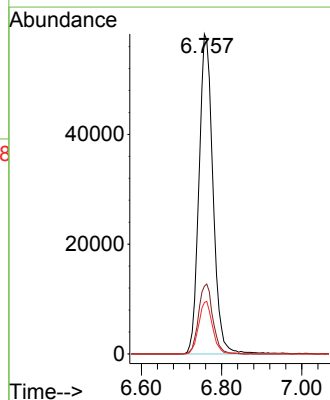
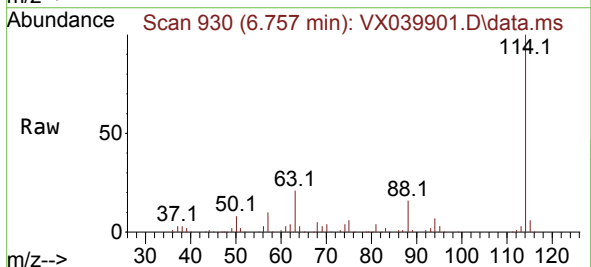
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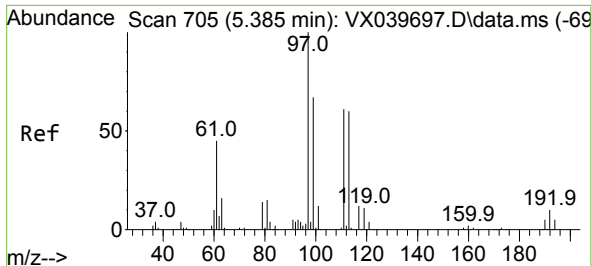
Tgt Ion: 65 Resp: 61436  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

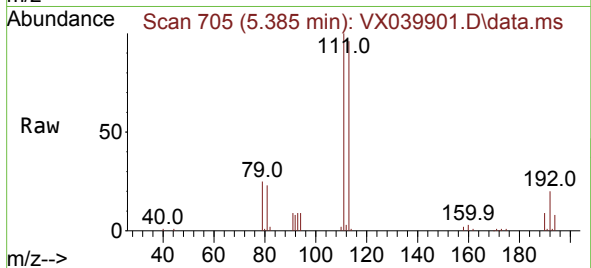
Tgt Ion:114 Resp: 141223  
Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 45.0  
88 16.0 0.0 36.6



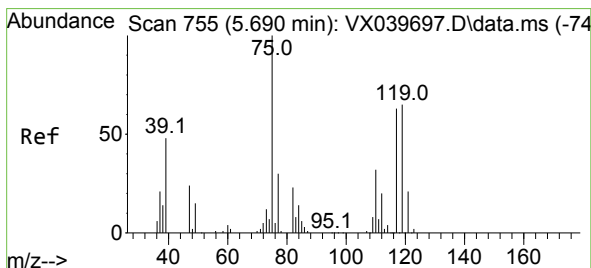
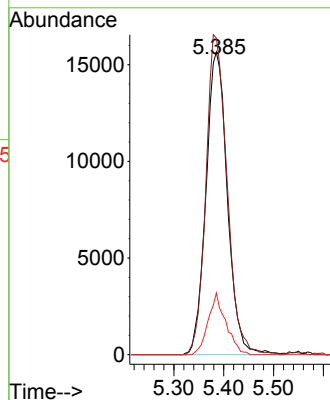
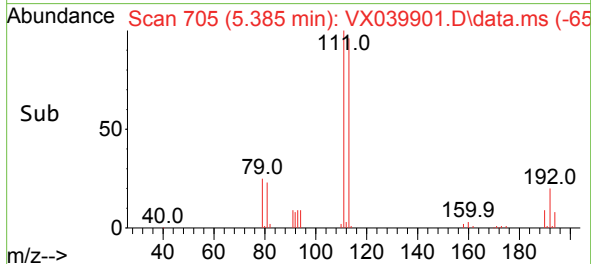


#35  
Dibromofluoromethane  
Concen: 49.186 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-SP302-B-20240118

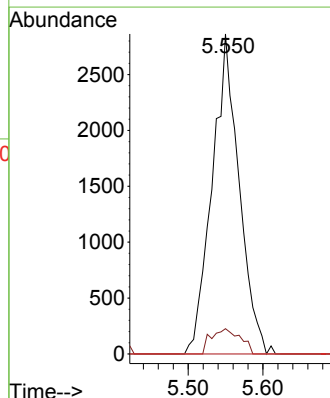
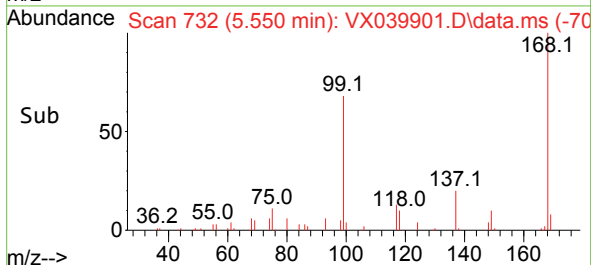
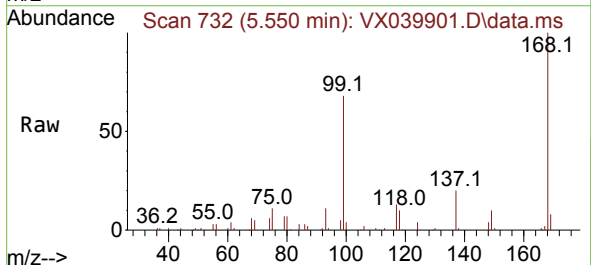


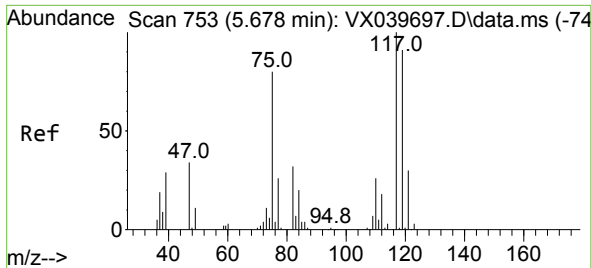
Tgt Ion:113 Resp: 46786  
Ion Ratio Lower Upper  
113 100  
111 104.1 82.9 124.3  
192 16.8 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.866 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

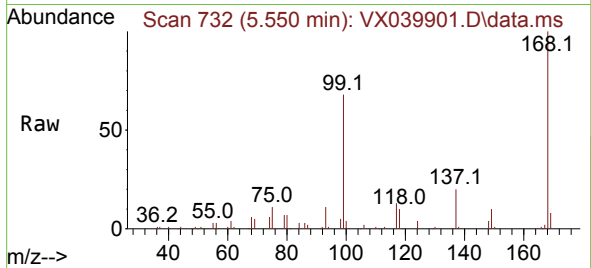
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Ion Ratio Lower Upper  
75 100  
110 8.5 17.0 50.9#  
77 0.0 24.7 37.1#



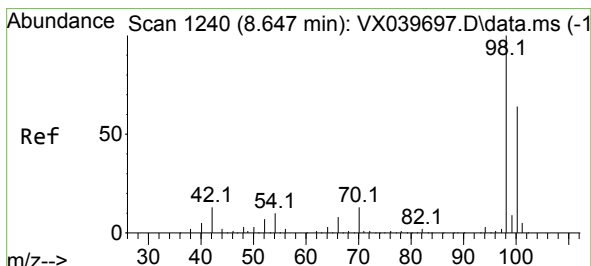
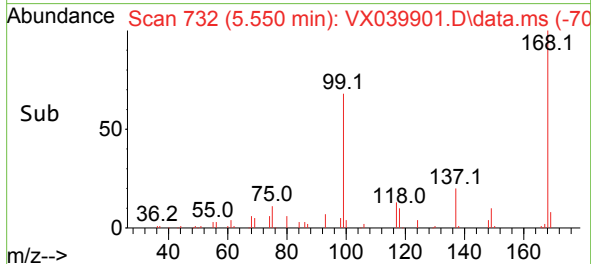
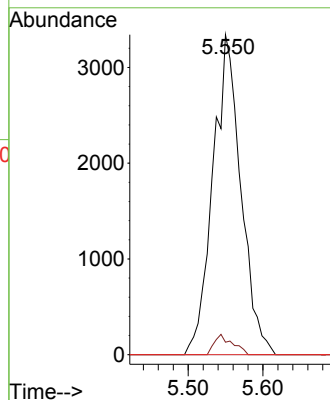


#38  
Carbon Tetrachloride  
Concen: 6.427 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-SP302-B-20240118

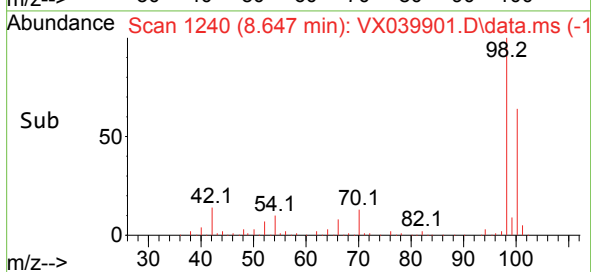
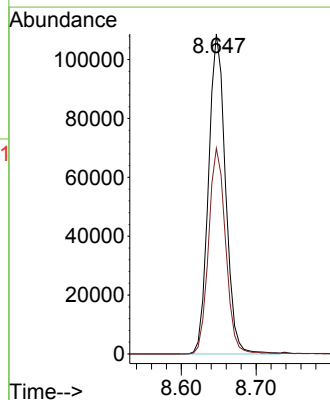
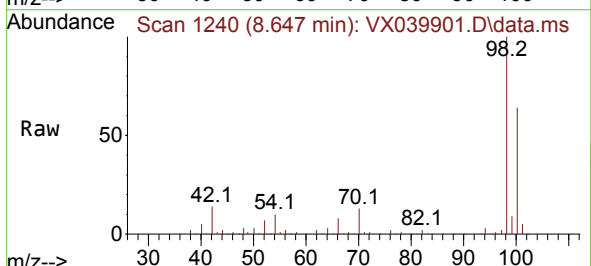


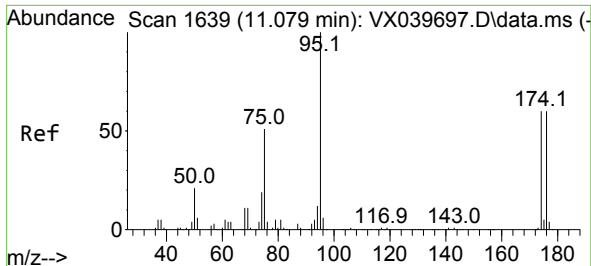
Tgt Ion:117 Resp: 8715  
Ion Ratio Lower Upper  
117 100  
119 3.9 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 47.844 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Tgt Ion: 98 Resp: 171639  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7

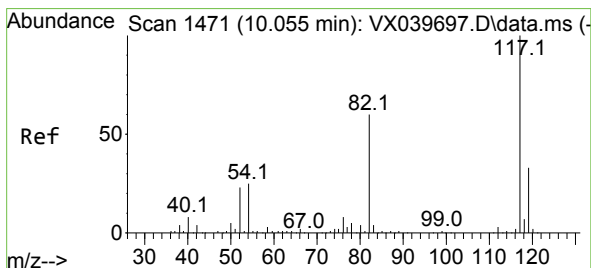
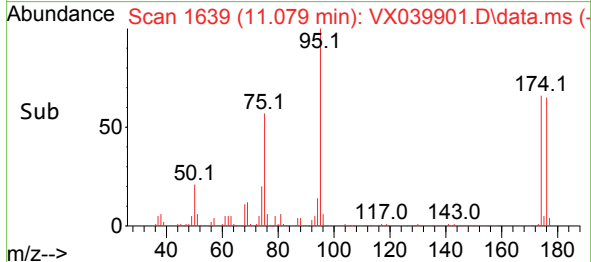
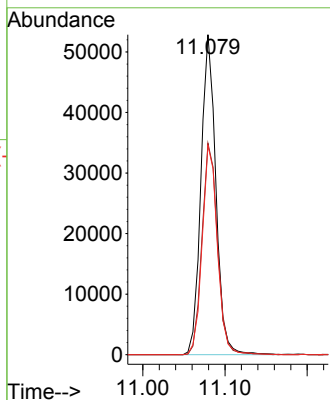
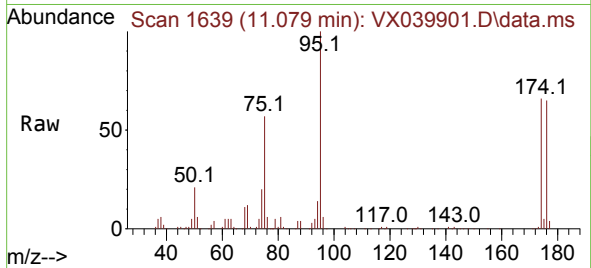




#62  
4-Bromofluorobenzene  
Concen: 47.474 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

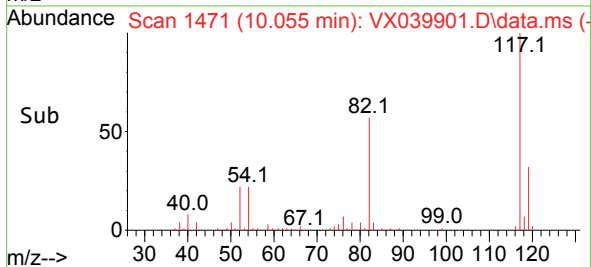
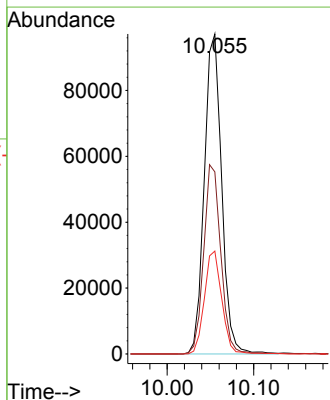
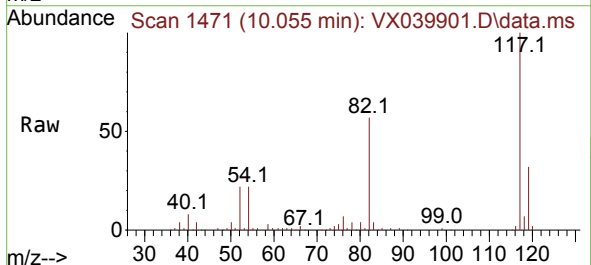
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-SP302-B-20240118

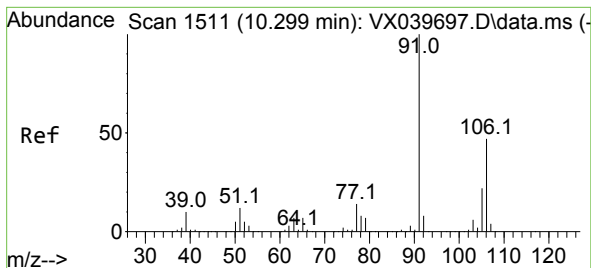
Tgt Ion: 95 Resp: 66601  
Ion Ratio Lower Upper  
95 100  
174 68.8 0.0 135.6  
176 66.6 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Tgt Ion: 117 Resp: 135197  
Ion Ratio Lower Upper  
117 100  
82 56.9 46.2 69.4  
119 32.2 25.5 38.3





#68

m/p-Xylenes

Concen: 0.227 ug/l

RT: 10.305 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

Instrument :

MSVOA\_X

ClientSampleId :

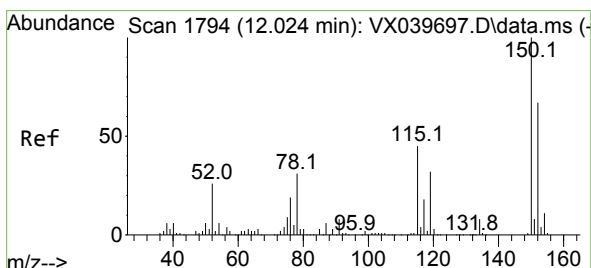
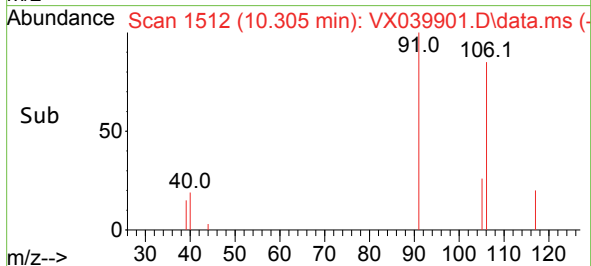
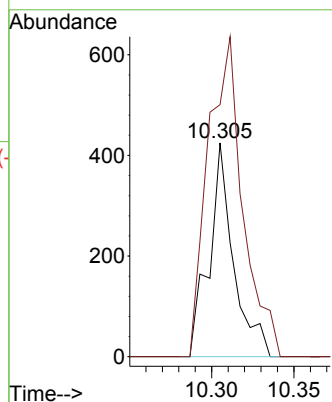
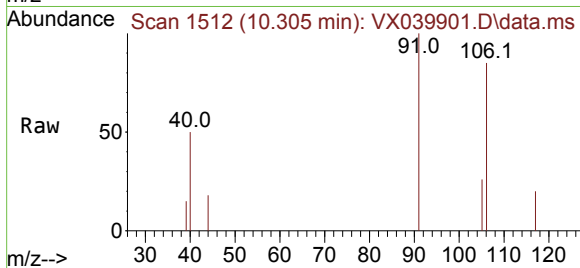
RE137-SP302-B-20240118

Tgt Ion:106 Resp: 437

Ion Ratio Lower Upper

106 100

91 213.5 165.5 248.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

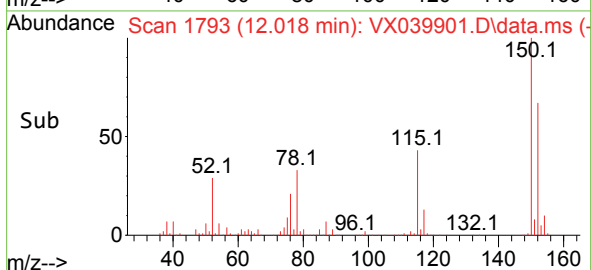
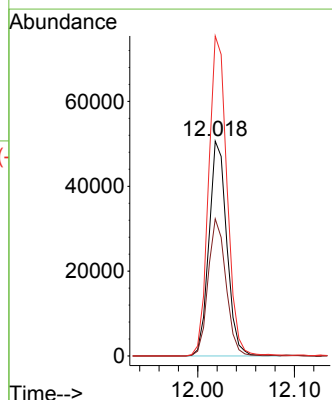
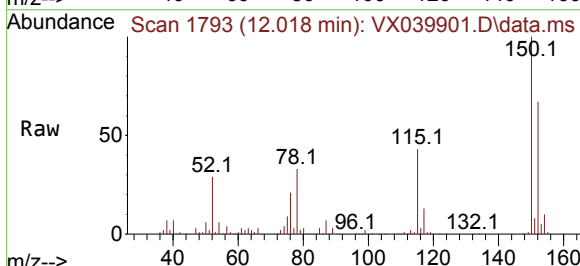
Tgt Ion:152 Resp: 64917

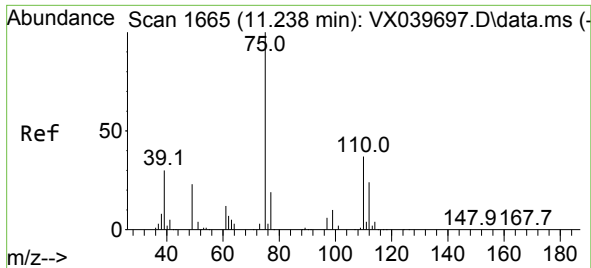
Ion Ratio Lower Upper

152 100

115 63.7 43.3 129.9

150 153.6 0.0 345.0

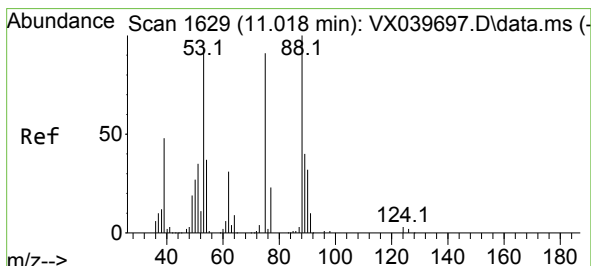
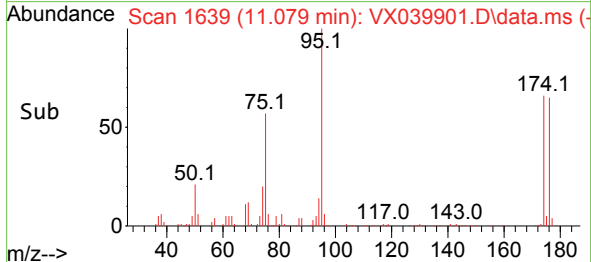
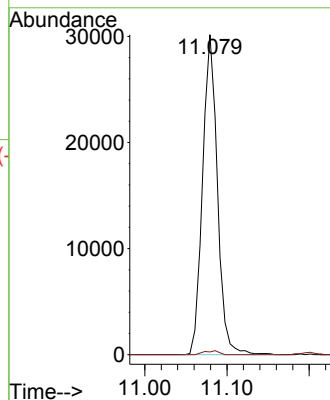
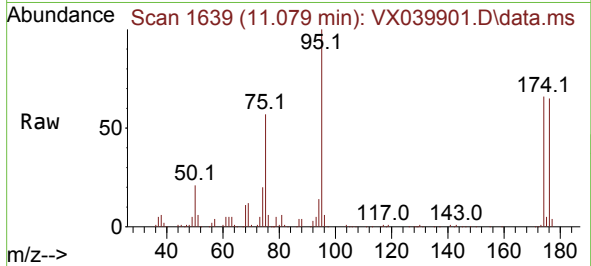




#76  
1,2,3-Trichloropropane  
Concen: 22.449 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

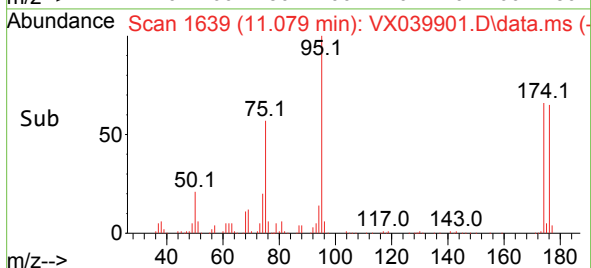
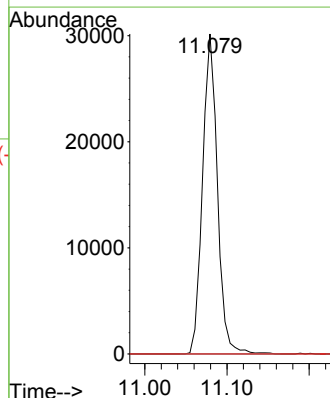
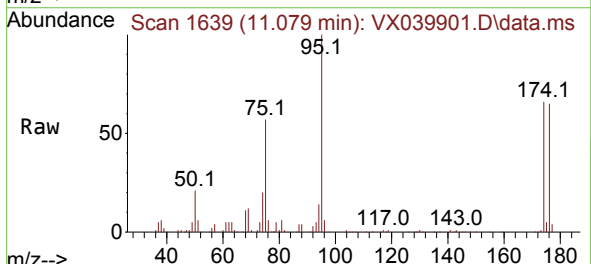
Instrument : MSVOA\_X  
ClientSampleId : RE137-SP302-B-20240118

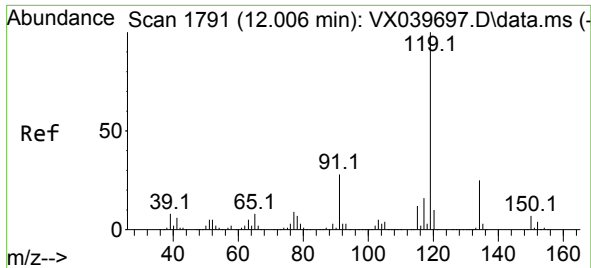
Tgt Ion: 75 Resp: 37782  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.002 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Tgt Ion: 75 Resp: 37782  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

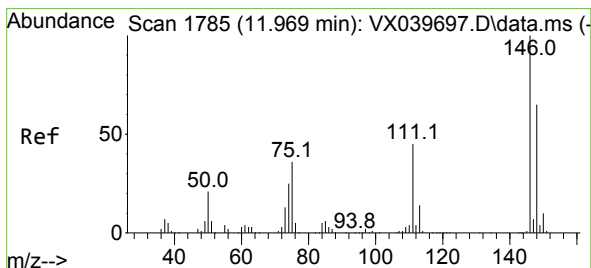
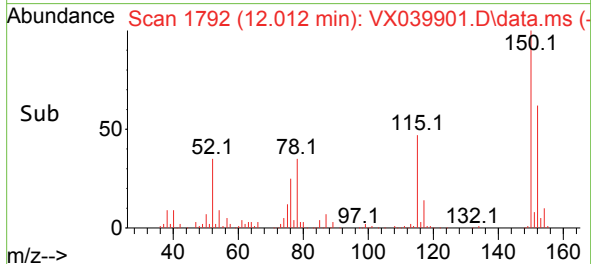
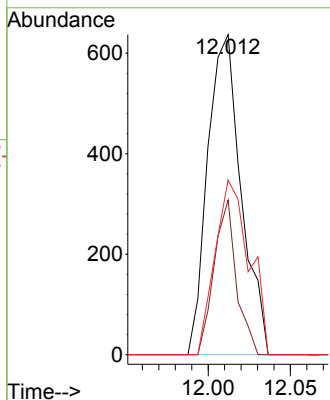
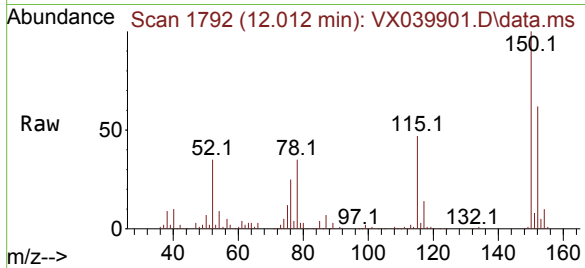




#86  
p-Isopropyltoluene  
Concen: 0.208 ug/l  
RT: 12.012 min Scan# 1792  
Delta R.T. 0.006 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

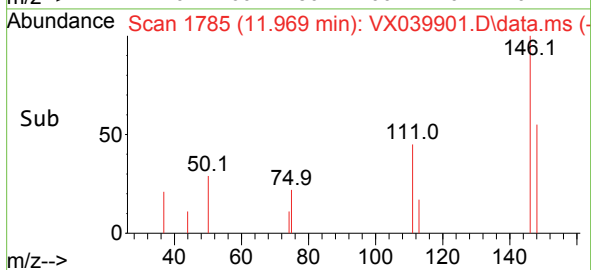
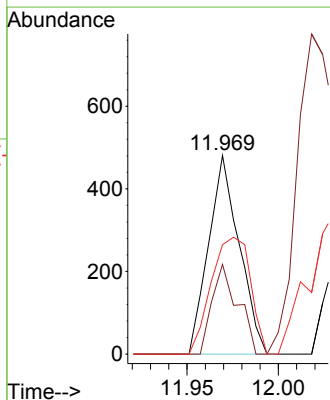
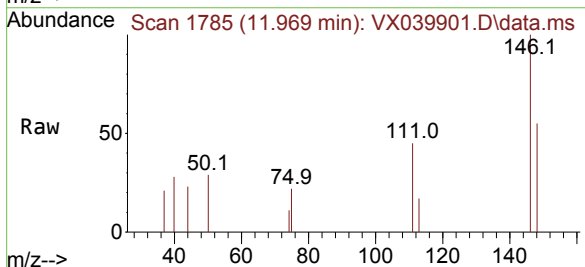
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-SP302-B-20240118

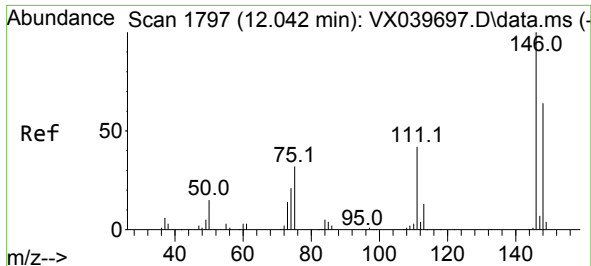
Tgt Ion:119 Resp: 904  
Ion Ratio Lower Upper  
119 100  
134 32.1 12.8 38.3  
91 55.4 13.1 39.3#



#87  
1,3-Dichlorobenzene  
Concen: 0.254 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. 0.000 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

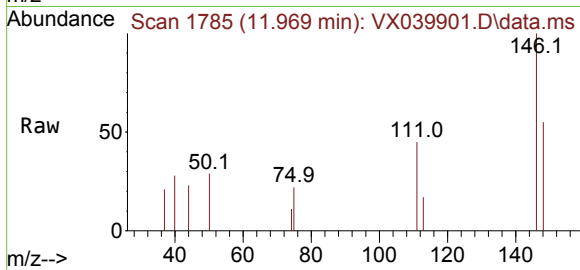
Tgt Ion:146 Resp: 561  
Ion Ratio Lower Upper  
146 100  
111 37.8 22.1 66.1  
148 75.0 31.8 95.3



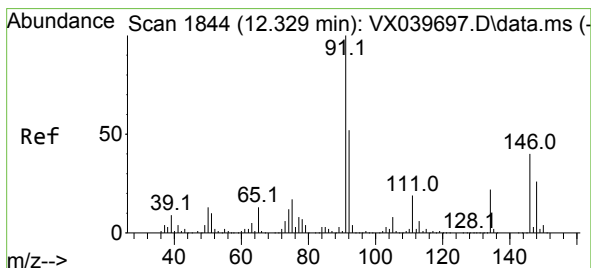
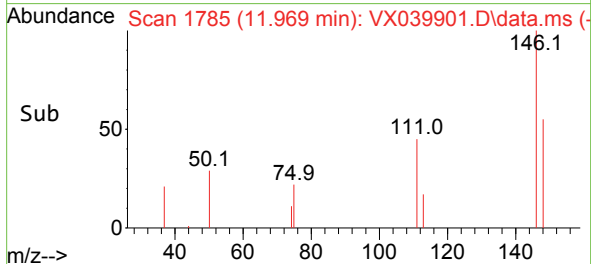
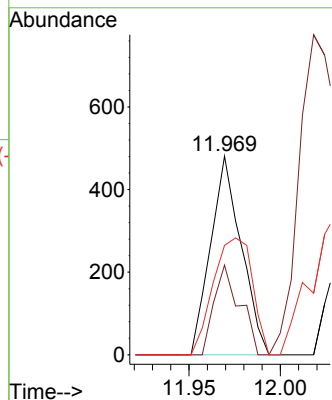


#88  
1,4-Dichlorobenzene  
Concen: 0.246 ug/l  
RT: 11.969 min Scan# 11  
Delta R.T. -0.073 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE137-SP302-B-20240118

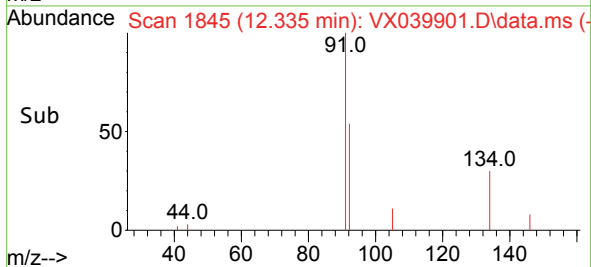
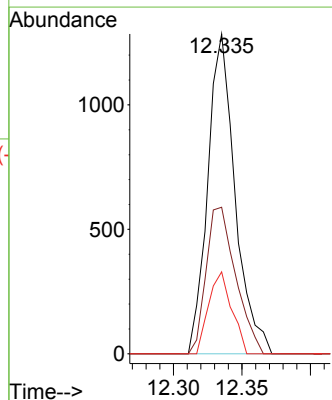
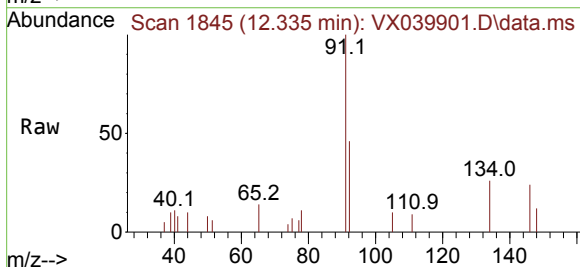


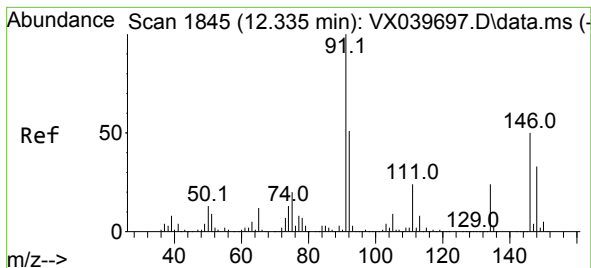
Tgt Ion:146 Resp: 561  
Ion Ratio Lower Upper  
146 100  
111 37.8 21.3 63.7  
148 75.0 31.8 95.4



#89  
n-Butylbenzene  
Concen: 0.424 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: VX039901.D  
Acq: 23 Jan 2024 11:47

Tgt Ion: 91 Resp: 1782  
Ion Ratio Lower Upper  
91 100  
92 49.6 27.4 82.0  
134 21.6 12.6 37.8





#91

1,2-Dichlorobenzene

Concen: 0.225 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.006 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

Instrument :

MSVOA\_X

ClientSampleId :

RE137-SP302-B-20240118

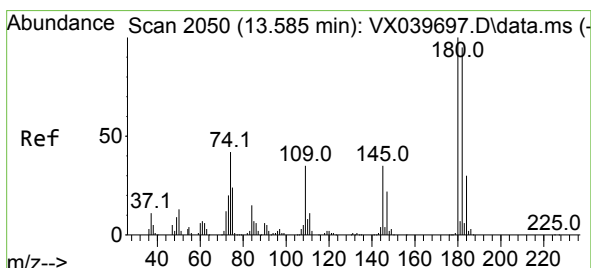
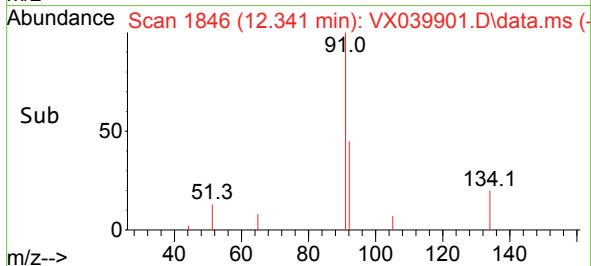
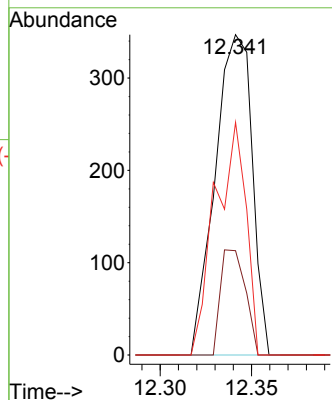
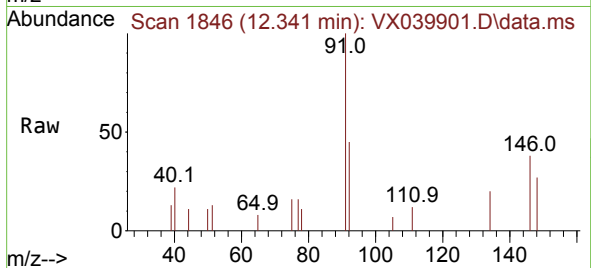
Tgt Ion:146 Resp: 490

Ion Ratio Lower Upper

146 100

111 22.0 22.4 67.0#

148 60.4 31.6 95.0



#93

1,2,4-Trichlorobenzene

Concen: 0.703 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

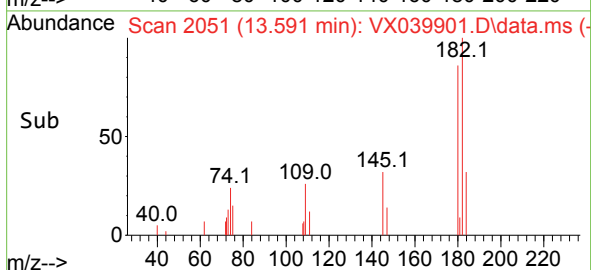
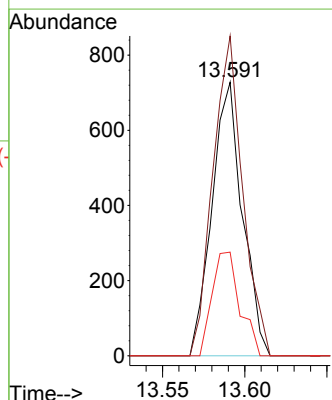
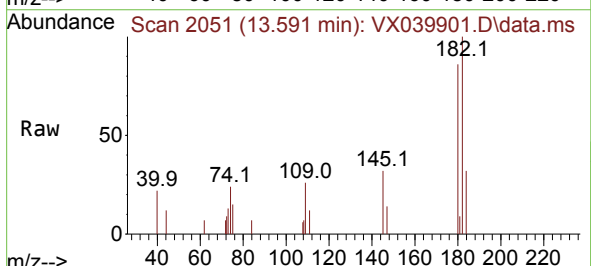
Tgt Ion:180 Resp: 937

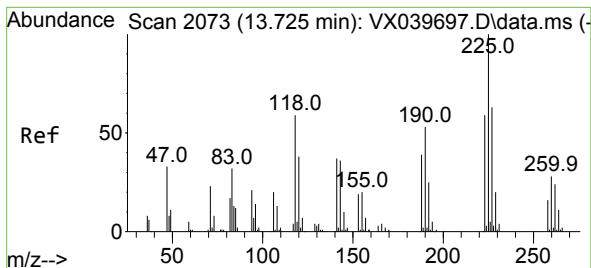
Ion Ratio Lower Upper

180 100

182 114.3 48.3 144.8

145 34.6 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.612 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

Instrument :

MSVOA\_X

ClientSampleId :

RE137-SP302-B-20240118

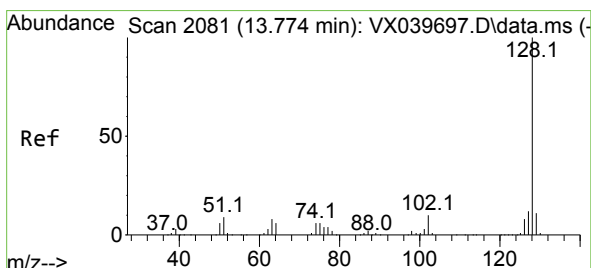
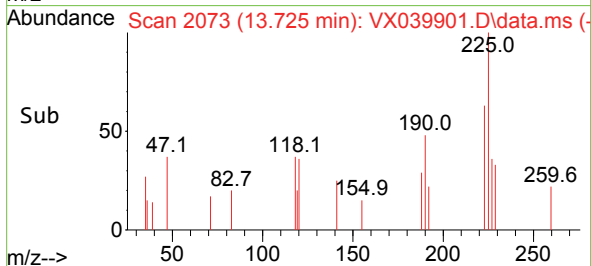
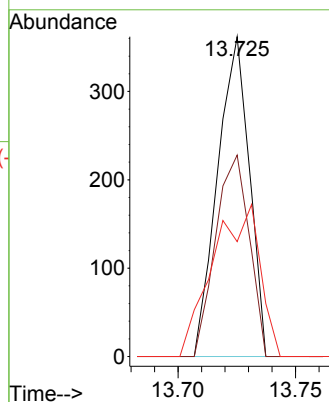
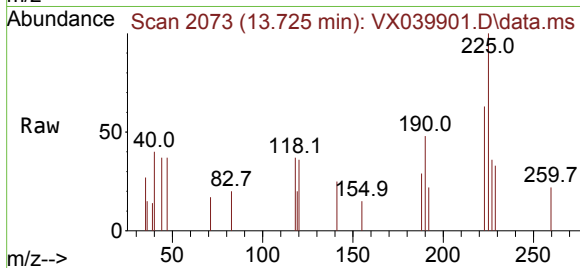
Tgt Ion:225 Resp: 339

Ion Ratio Lower Upper

225 100

223 67.0 31.1 93.2

227 70.8 32.5 97.5



#95

Naphthalene

Concen: 0.605 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX039901.D

Acq: 23 Jan 2024 11:47

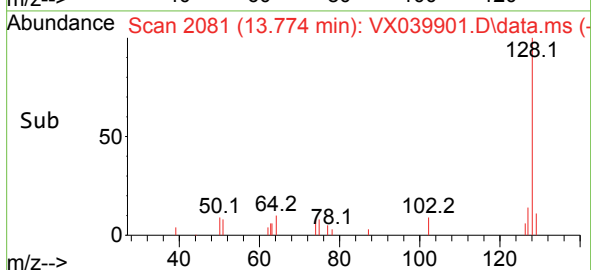
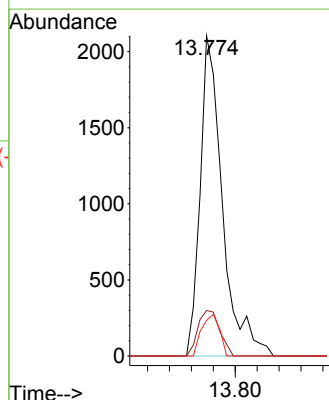
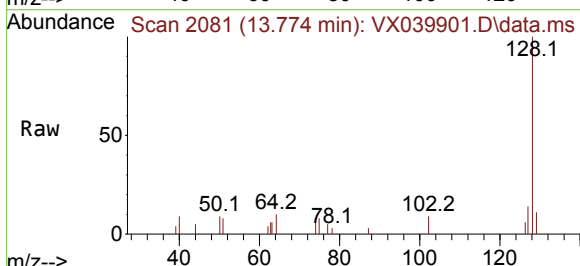
Tgt Ion:128 Resp: 2967

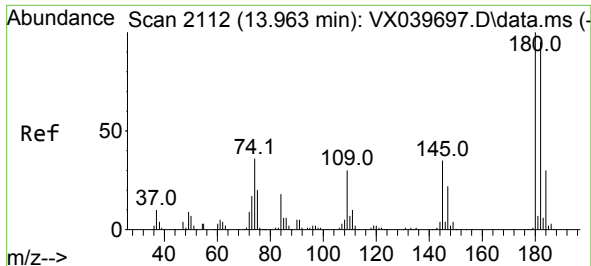
Ion Ratio Lower Upper

128 100

127 14.0 10.3 15.5

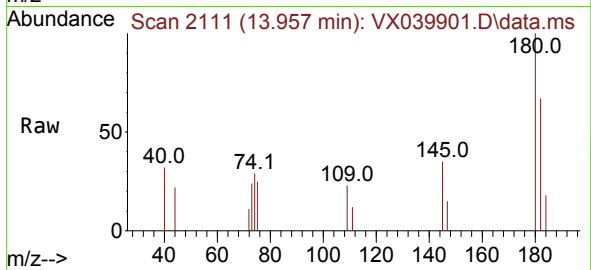
129 10.4 8.8 13.2





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.544 ug/l  
 RT: 13.957 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VX039901.D  
 Acq: 23 Jan 2024 11:47

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE137-SP302-B-20240118



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 732   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 115.6 | 46.9  | 140.6 |
| 145      | 35.9  | 17.8  | 53.5  |

