

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042523\  
 Data File : VY013458.D  
 Acq On : 25 Apr 2023 19:47  
 Operator : KP/MD  
 Sample : 02477-02RE  
 Misc : 5.06g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MID-H4(ELEV-22)RE

Quant Time: Apr 26 02:54:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

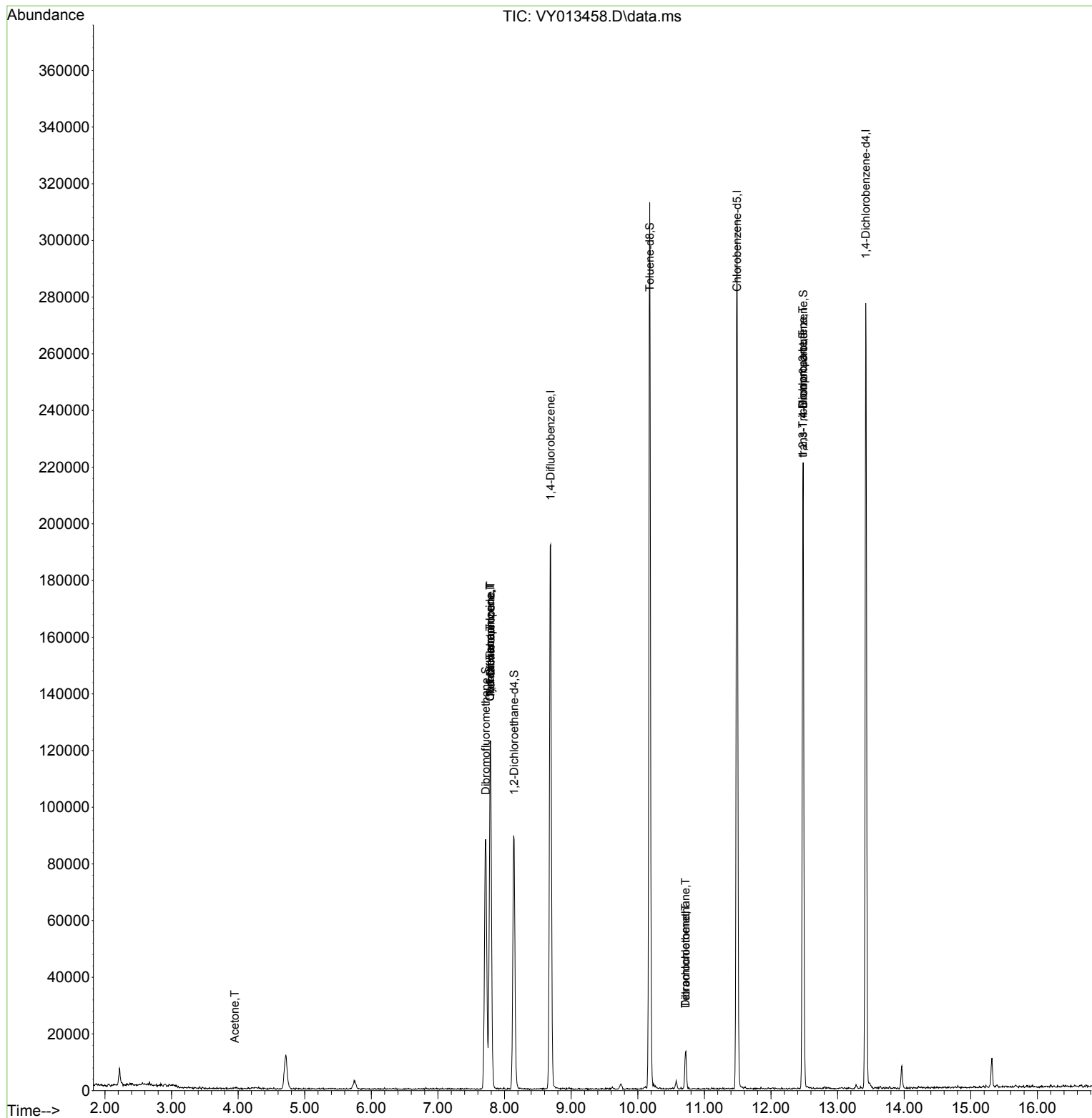
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 94655    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 159228   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 159913   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422    | 152   | 71330    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143     | 65    | 71220    | 68.637    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 137.280% |          |
| 35) Dibromofluoromethane      | 7.716     | 113   | 61263    | 61.173    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 122.340% |          |
| 50) Toluene-d8                | 10.179    | 98    | 201308   | 56.505    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery  | = 113.020% |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 62784    | 52.274    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery  | = 104.540% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 13) Acrolein                  | 3.735     | 56    | 27       | Below Cal | #          | 16       |
| 16) Acetone                   | 3.948     | 43    | 738      | 1.806     | ug/l #     | 74       |
| 20) Methylene Chloride        | 4.710     | 84    | 8532     | Below Cal | #          | 85       |
| 31) Cyclohexane               | 7.783     | 56    | 2388     | 1.285     | ug/l #     | 56       |
| 36) 1,1-Dichloropropene       | 7.789     | 75    | 7370     | 4.434     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.783     | 117   | 9747     | 5.595     | ug/l #     | 14       |
| 60) Dibromochloromethane      | 10.715    | 129   | 2731     | 2.319     | ug/l #     | 11       |
| 64) Tetrachloroethene         | 10.715    | 164   | 2874     | 2.364     | ug/l       | 90       |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 33677    | 35.008    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 33677    | 71.611    | ug/l #     | 13       |
| -----                         |           |       |          |           |            |          |

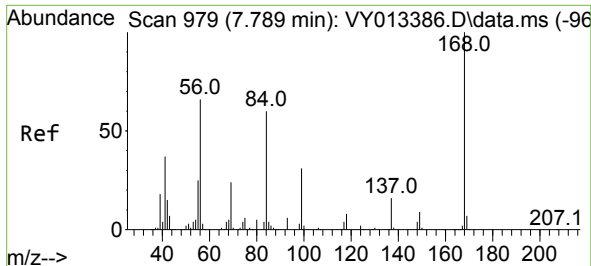
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 25 02:39:58 2023  
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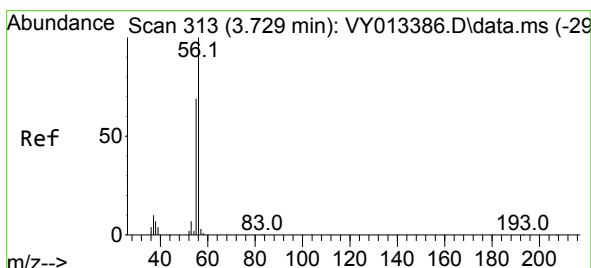
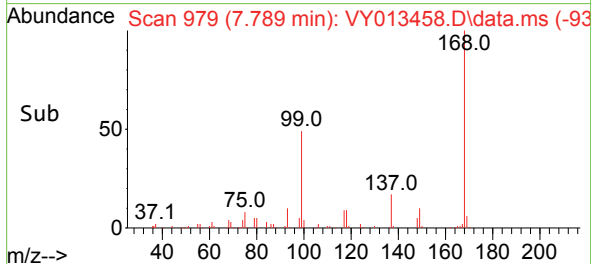
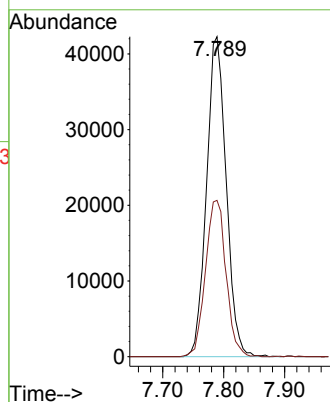
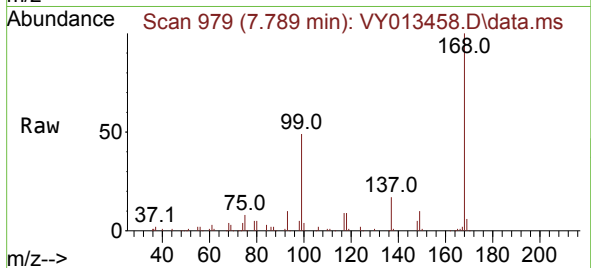




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

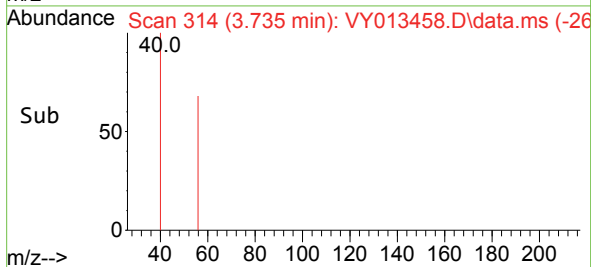
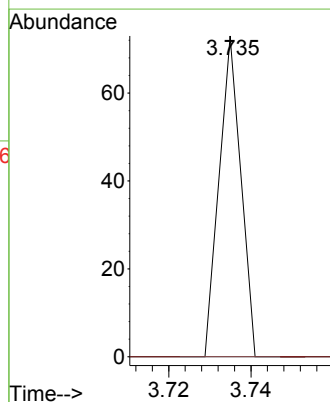
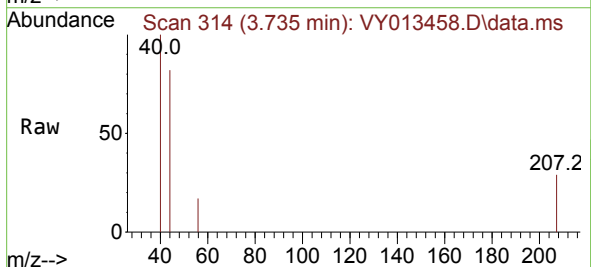
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MID-H4(ELEV-22)RE

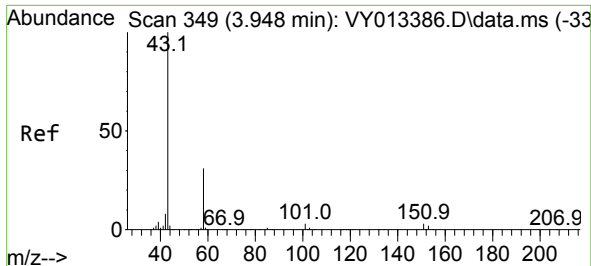
Tgt Ion:168 Resp: 94655  
Ion Ratio Lower Upper  
168 100  
99 48.8 41.8 62.6



#13  
Acrolein  
Concen: Below Cal  
RT: 3.735 min Scan# 314  
Delta R.T. 0.006 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

Tgt Ion: 56 Resp: 27  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.1 81.1#





#16

Acetone

Concen: 1.806 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.000 min

Lab File: VY013458.D

Acq: 25 Apr 2023 19:47

Instrument :

MSVOA\_Y

ClientSampleId :

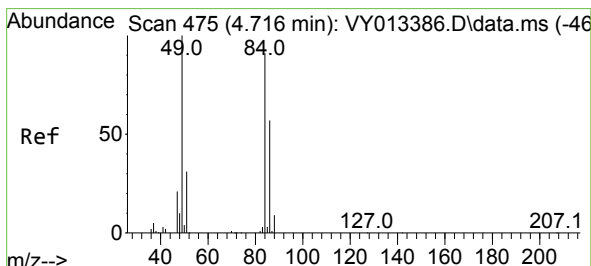
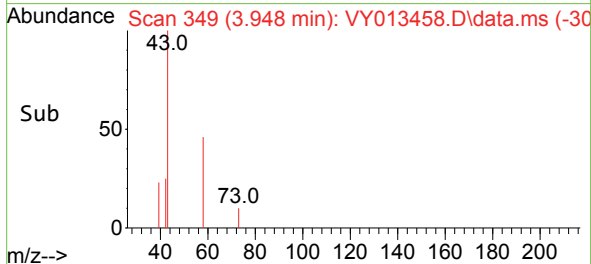
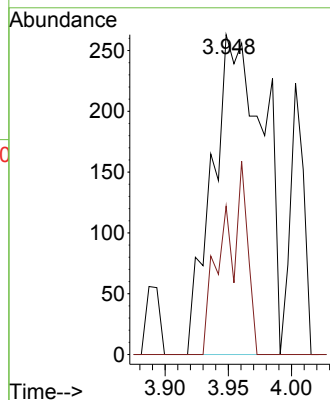
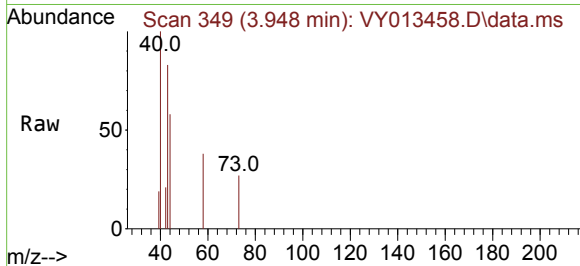
MID-H4(ELEV-22)RE

Tgt Ion: 43 Resp: 738

Ion Ratio Lower Upper

43 100

58 46.4 25.4 38.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY013458.D

Acq: 25 Apr 2023 19:47

Tgt Ion: 84 Resp: 8532

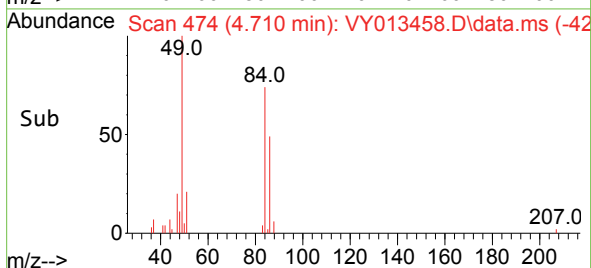
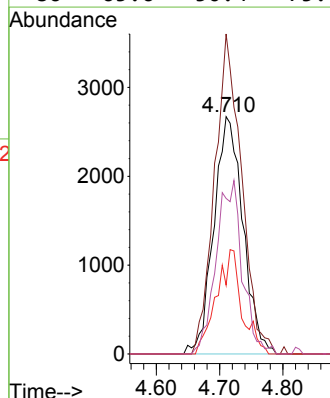
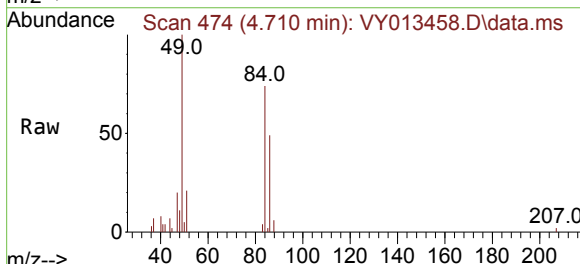
Ion Ratio Lower Upper

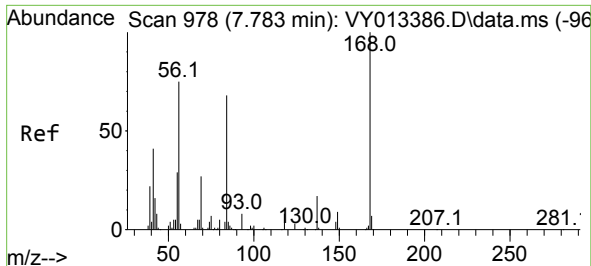
84 100

49 134.9 88.0 132.0#

51 29.0 27.4 41.0

86 65.6 50.4 75.6

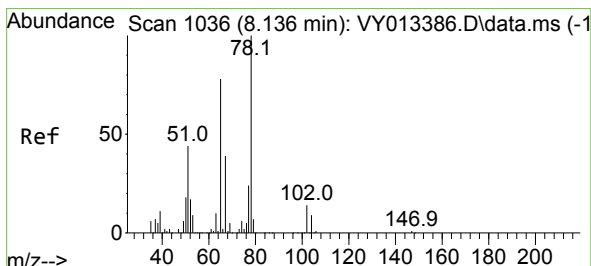
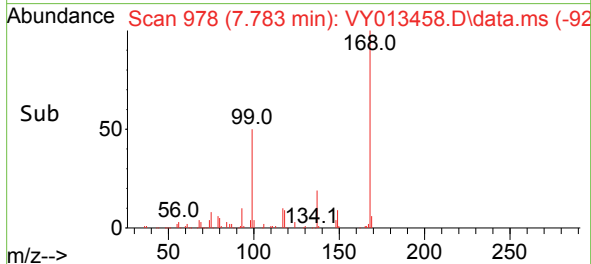
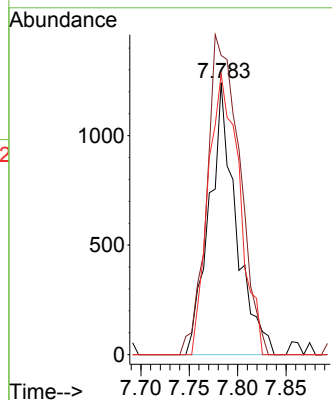
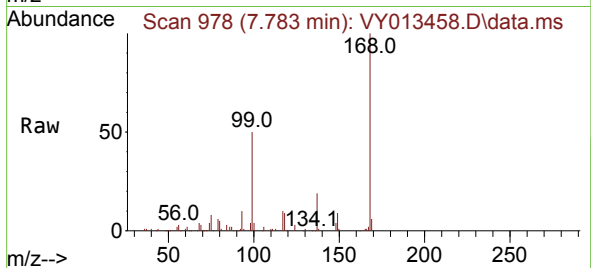




#31  
Cyclohexane  
Concen: 1.285 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

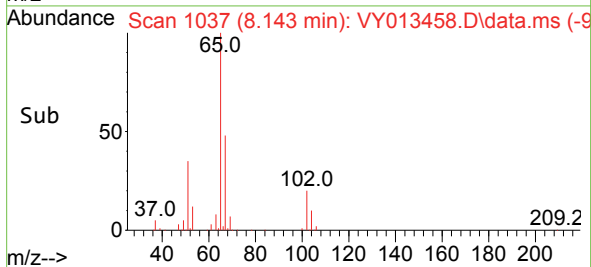
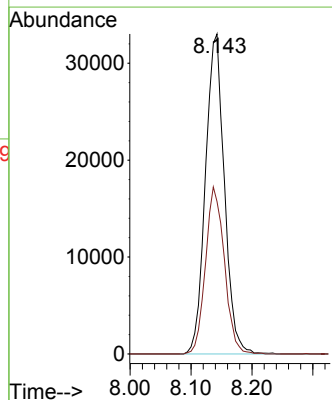
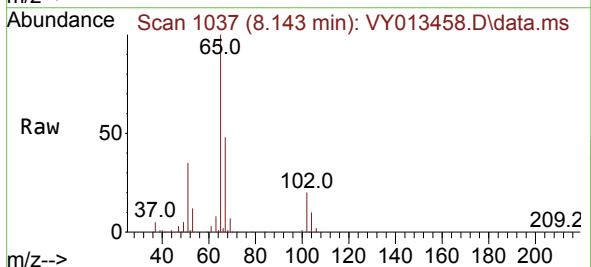
Instrument :  
MSVOA\_Y  
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MID-H4(ELEV-22)RE

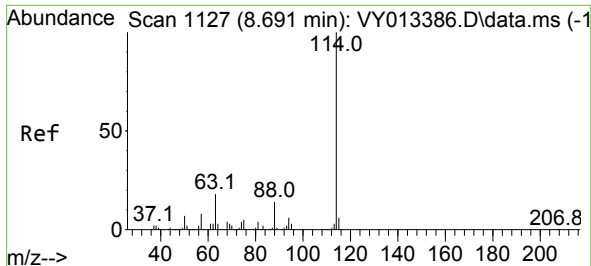
Tgt Ion: 56 Resp: 2388  
Ion Ratio Lower Upper  
56 100  
69 110.0 29.2 43.8#  
84 103.1 73.0 109.6



#33  
1,2-Dichloroethane-d4  
Concen: 68.637 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.007 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

Tgt Ion: 65 Resp: 71220  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 103.4

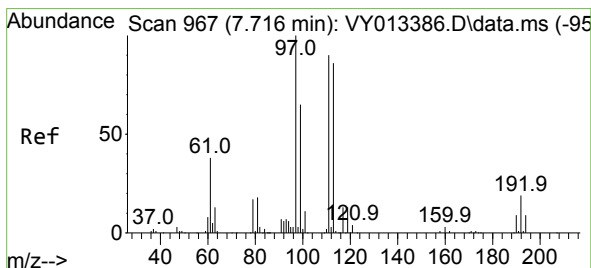
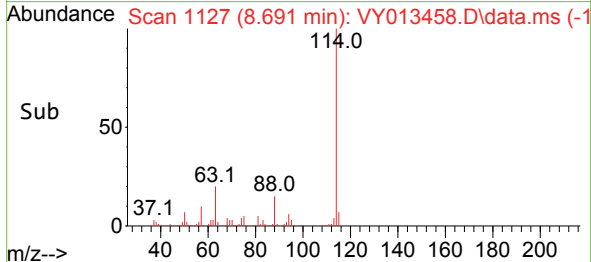
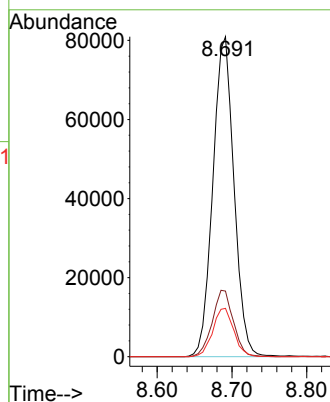
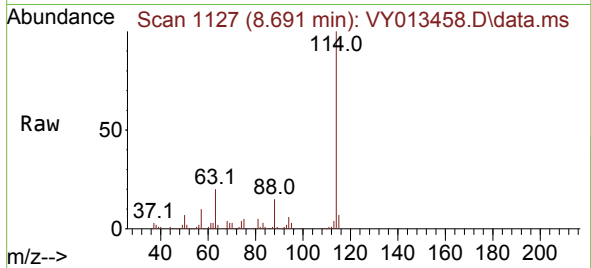




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

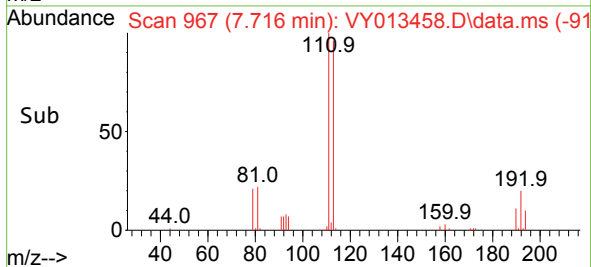
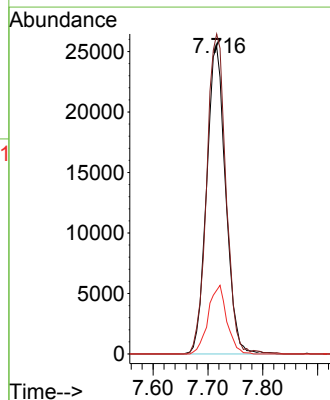
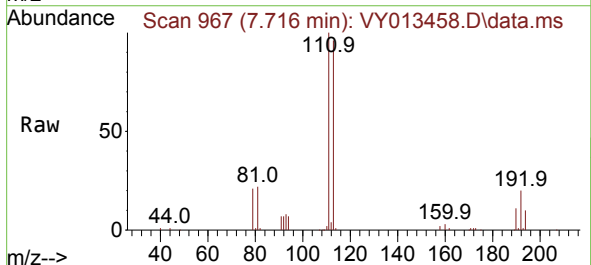
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MID-H4(ELEV-22)RE

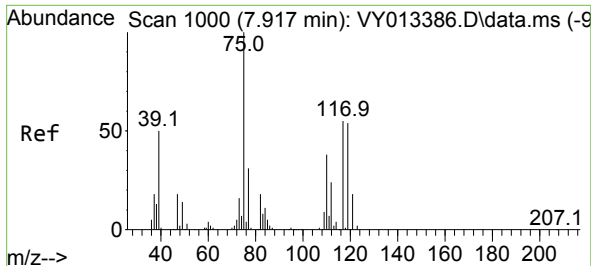
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 159228 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 20.5  | 0.0   | 36.6   |
| 88       | 15.1  | 0.0   | 28.8   |



#35  
Dibromofluoromethane  
Concen: 61.173 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 61263 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 105.1 | 82.2  | 123.2 |
| 192      | 21.8  | 16.7  | 25.1  |

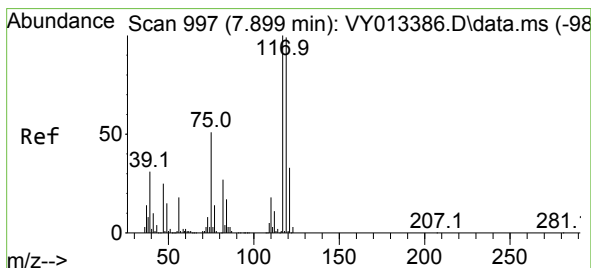
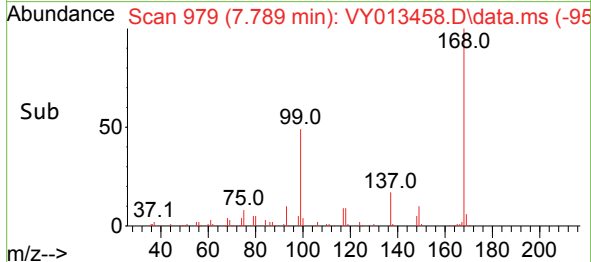
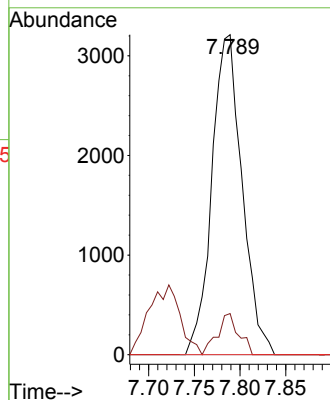
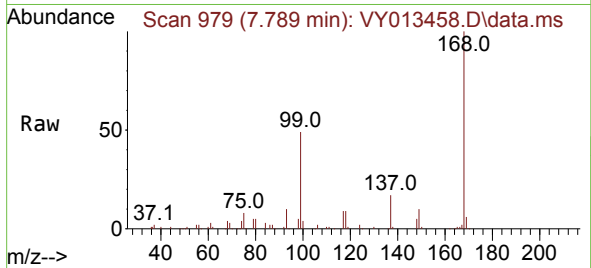




#36  
1,1-Dichloropropene  
Concen: 4.434 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

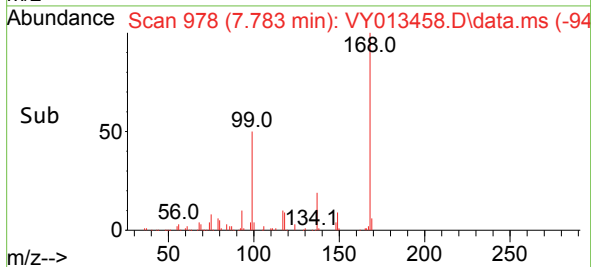
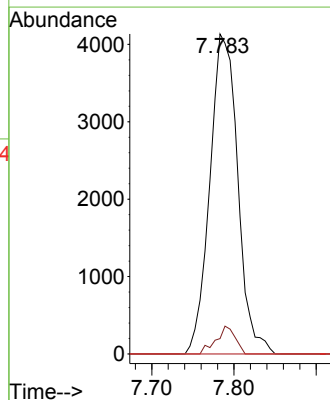
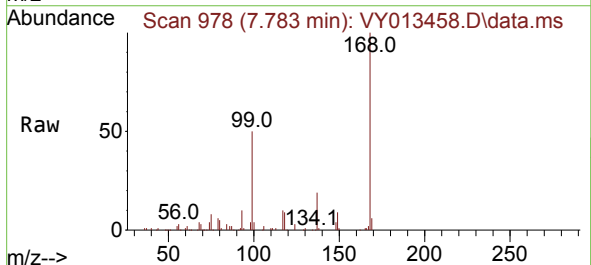
Instrument :  
MSVOA\_Y  
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MID-H4(ELEV-22)RE

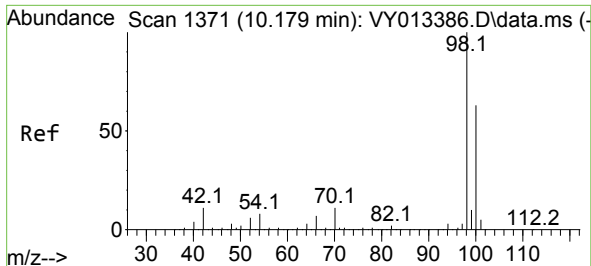
Tgt Ion: 75 Resp: 7370  
Ion Ratio Lower Upper  
75 100  
110 9.1 18.7 56.1#  
77 0.0 24.6 37.0#



#38  
Carbon Tetrachloride  
Concen: 5.595 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.116 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

Tgt Ion: 117 Resp: 9747  
Ion Ratio Lower Upper  
117 100  
119 4.8 79.0 118.6#  
121 0.0 26.6 40.0#

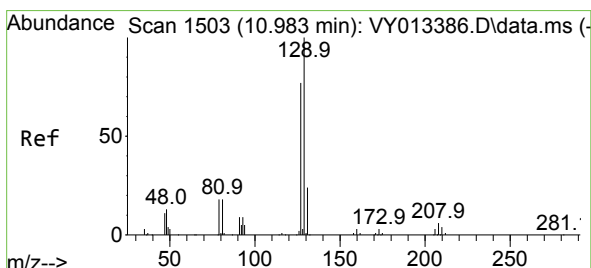
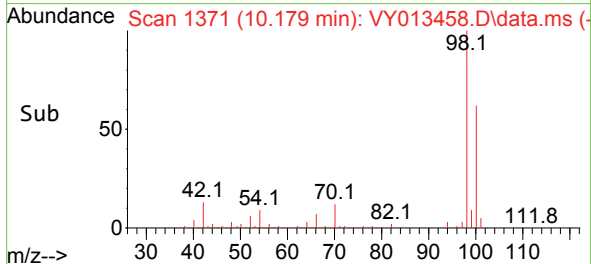
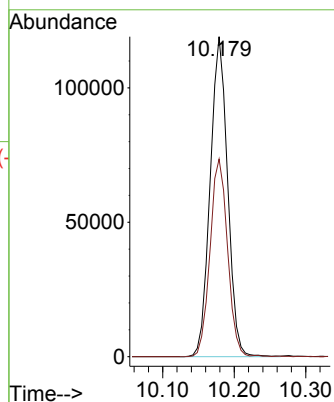
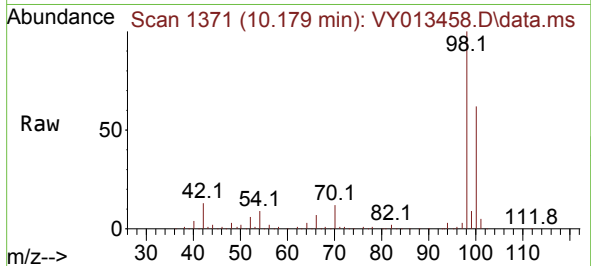




#50  
Toluene-d8  
Concen: 56.505 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

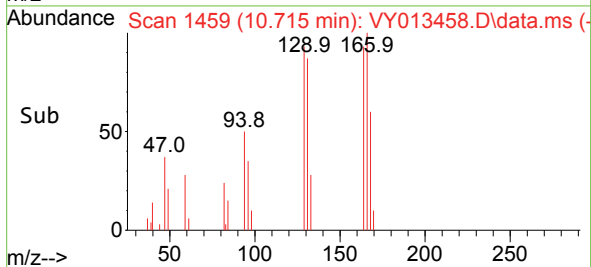
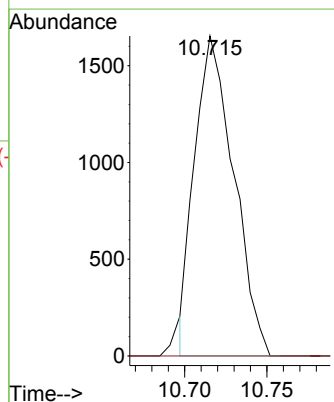
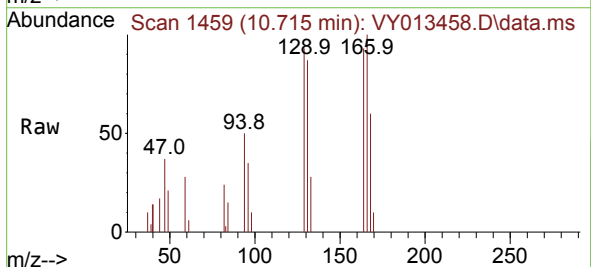
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MID-H4(ELEV-22)RE

Tgt Ion: 98 Resp: 201308  
Ion Ratio Lower Upper  
98 100  
100 62.1 50.5 75.7

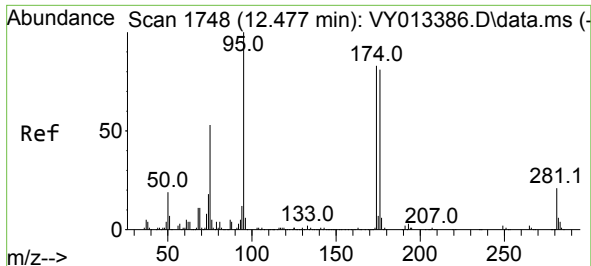


#60  
Dibromochloromethane  
Concen: 2.319 ug/l  
RT: 10.715 min Scan# 1459  
Delta R.T. -0.268 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

Tgt Ion: 129 Resp: 2731  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.7 116.1#







#62

4-Bromofluorobenzene

Concen: 52.274 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY013458.D

Acq: 25 Apr 2023 19:47

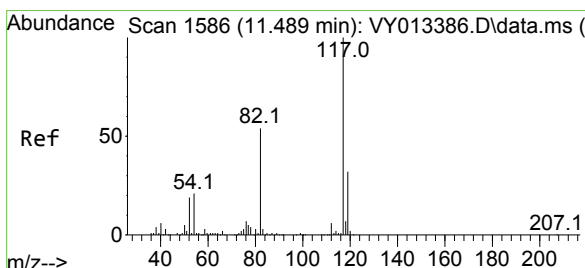
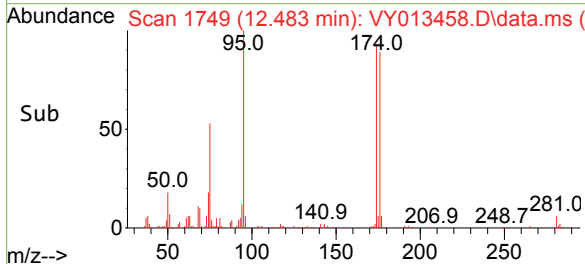
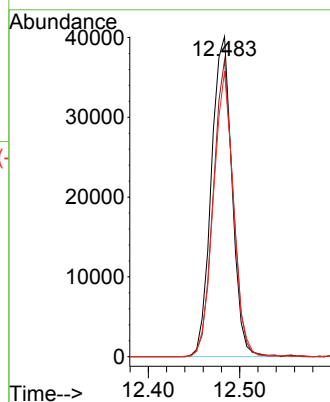
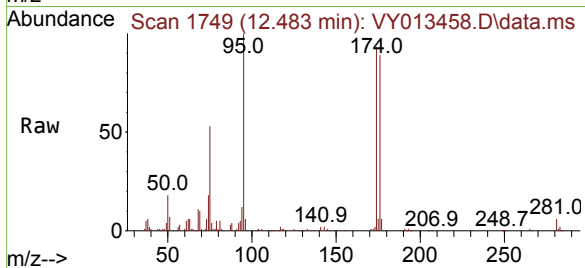
Instrument :

MSVOA\_Y

ClientSampleId :

MID-H4(ELEV-22)RE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 62784 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 89.8  | 0.0   | 182.0 |
| 176      | 86.8  | 0.0   | 175.4 |



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

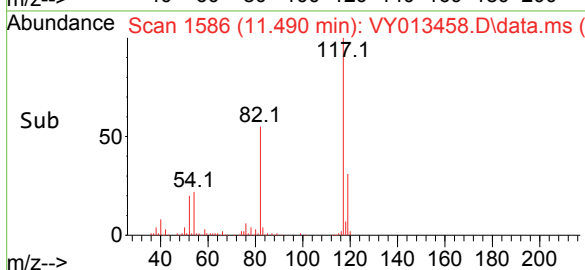
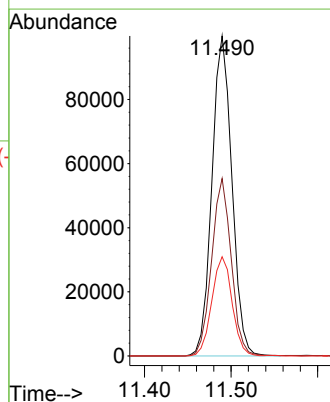
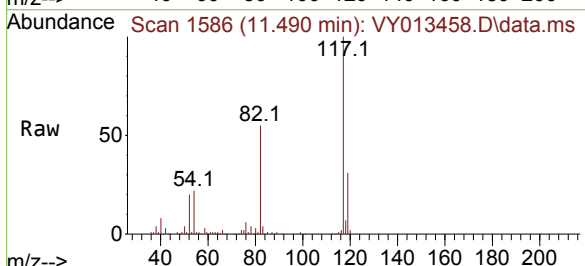
RT: 11.490 min Scan# 1586

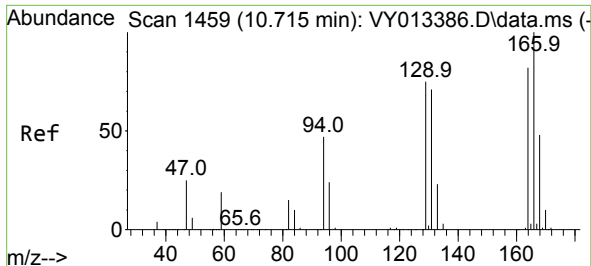
Delta R.T. 0.001 min

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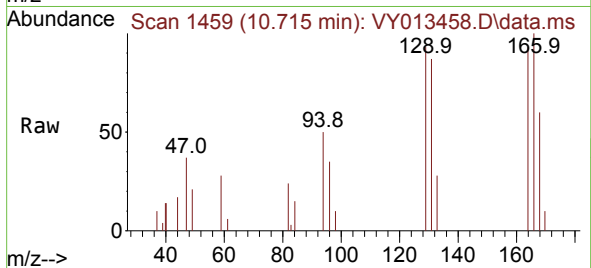
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 159913 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 55.5  | 43.0  | 64.6   |
| 119      | 31.0  | 25.5  | 38.3   |



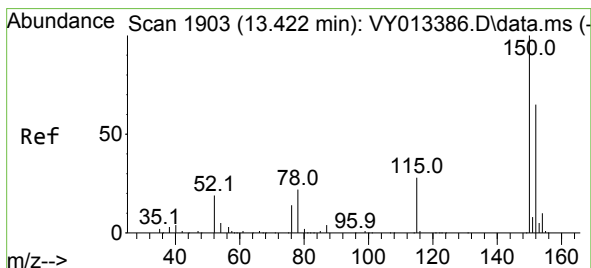
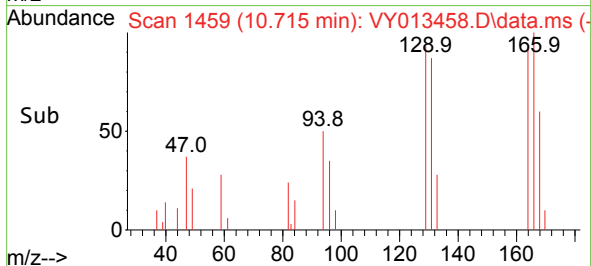
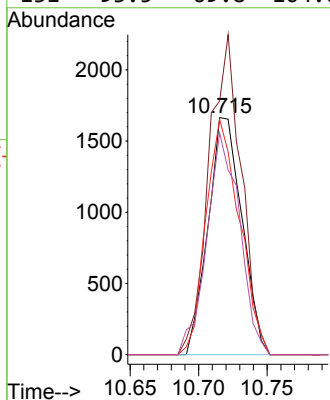


#64  
Tetrachloroethene  
Concen: 2.364 ug/l  
RT: 10.715 min Scan# 1459  
Delta R.T. 0.000 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MID-H4(ELEV-22)RE

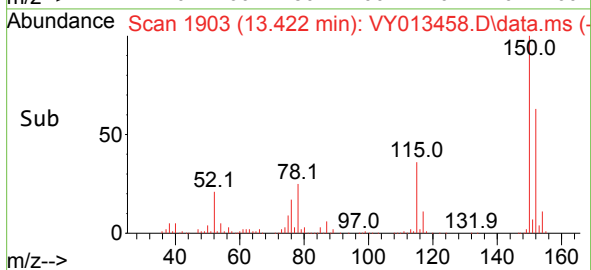
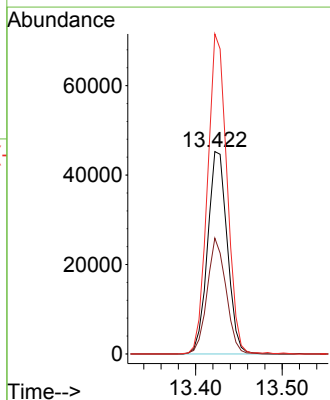
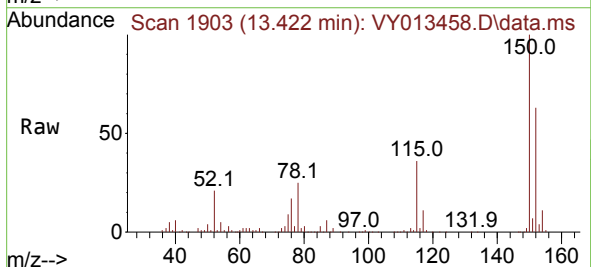


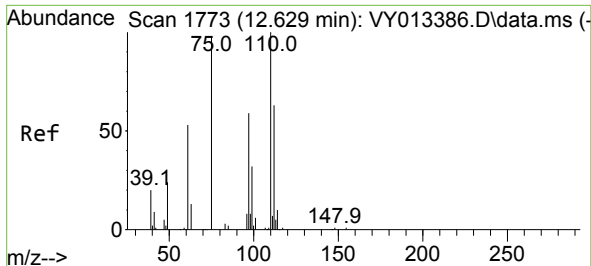
| Tgt Ion:  | 164   | Resp: | 2874  |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 164       | 100   |       |       |
| 166       | 107.0 | 97.5  | 146.3 |
| 129       | 99.3  | 72.6  | 109.0 |
| 131       | 93.5  | 69.8  | 104.6 |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY013458.D  
Acq: 25 Apr 2023 19:47

| Tgt Ion:  | 152   | Resp: | 71330 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 152       | 100   |       |       |
| 115       | 54.9  | 28.1  | 84.2  |
| 150       | 155.9 | 0.0   | 352.0 |

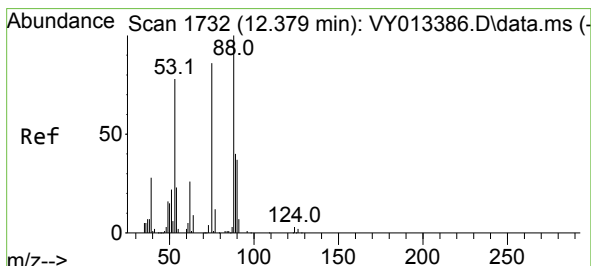
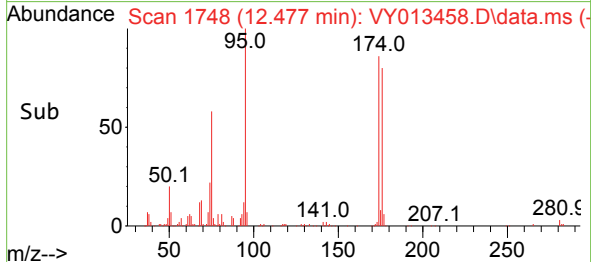
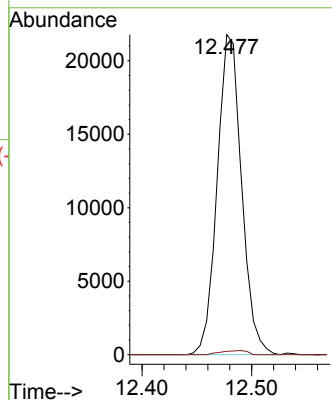
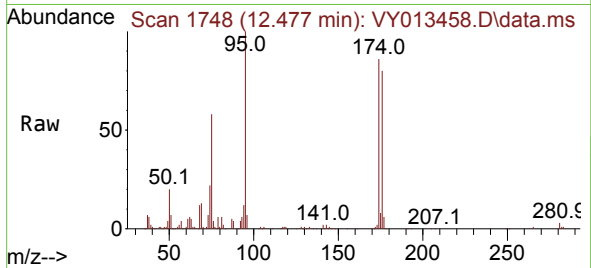




#76  
 1,2,3-Trichloropropane  
 Concen: 35.008 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.152 min  
 Lab File: VY013458.D  
 Acq: 25 Apr 2023 19:47

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MID-H4(ELEV-22)RE

Tgt Ion: 75 Resp: 33677  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.611 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. 0.098 min  
 Lab File: VY013458.D  
 Acq: 25 Apr 2023 19:47

Tgt Ion: 75 Resp: 33677  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 73.2 109.8#  
 89 0.0 38.0 57.0#

