

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040522\  
 Data File : VL038822.D  
 Acq On : 5 Apr 2022 23:06  
 Operator : SY/AP  
 Sample : QC040422 CAN10326  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC040422 CAN10326

Quant Time: Apr 06 06:26:31 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
 QLast Update : Wed Apr 06 06:12:53 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1383028  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3782047  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3325635  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2514150  | 9.97     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.70% |

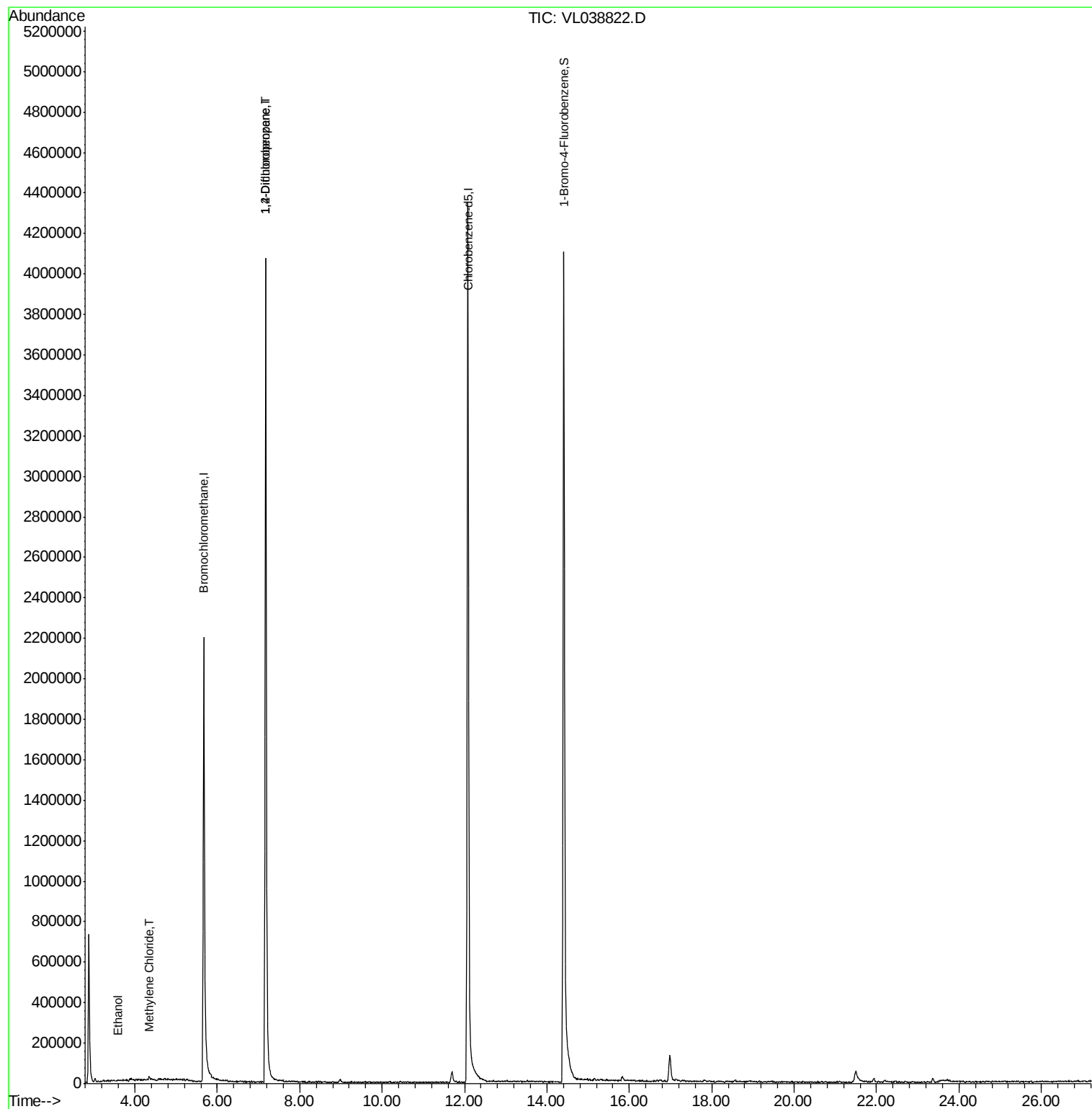
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 13) Ethanol             | 3.60 | 45   | 351      | 0.065 | ppbv # | 100    |
| 20) Methylene Chloride  | 4.34 | 84   | 2044     | 0.041 | ppbv # | 76     |
| 39) 1,2-Dichloropropane | 7.17 | 63   | 920632   | 6.996 | ppbv # | 27     |

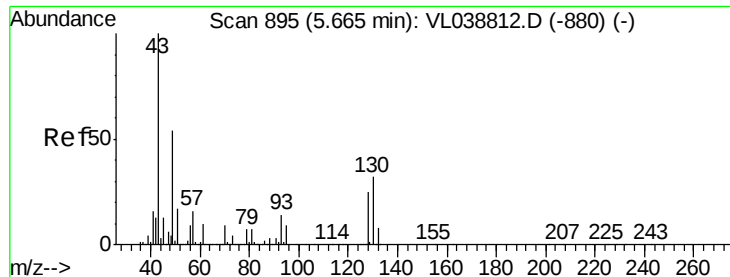
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : OC040422 CAN10326  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC040422 CAN10326

Quant Time: Apr 06 06:26:31 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Apr 06 06:12:53 2022  
QLast Update : Wed Apr 06 06:12:53 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId: OC040422 CAN10326

Acq: 5 Apr 2022 23:00

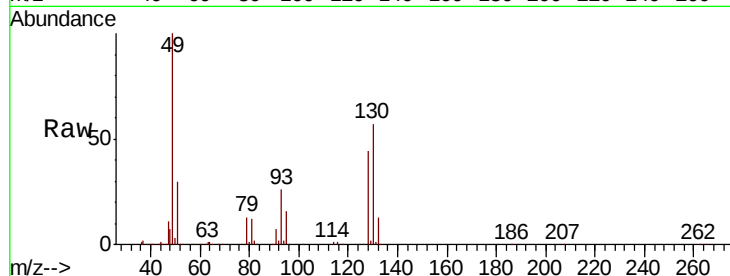
Tot Ion: 49 Resp: 1383028

Ion Ratio Lower Upper

49 100

128 49.0 24.1 72.3

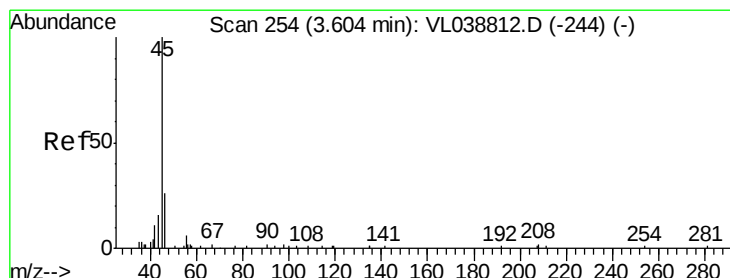
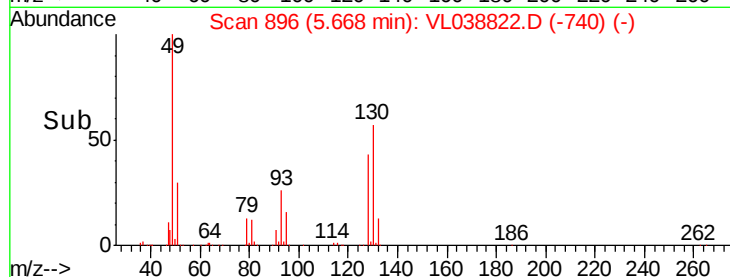
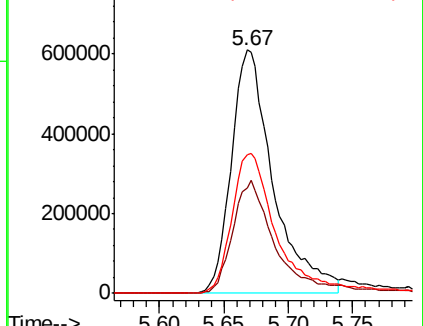
130 62.7 30.9 92.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#13

Ethanol

Concen: 0.065 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL038822.D

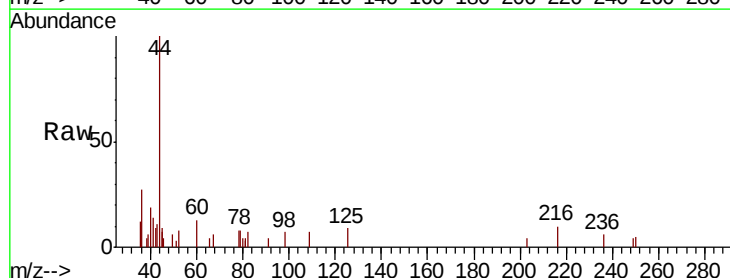
Acq: 5 Apr 2022 23:06

Tgt Ion: 45 Resp: 351

Ion Ratio Lower Upper

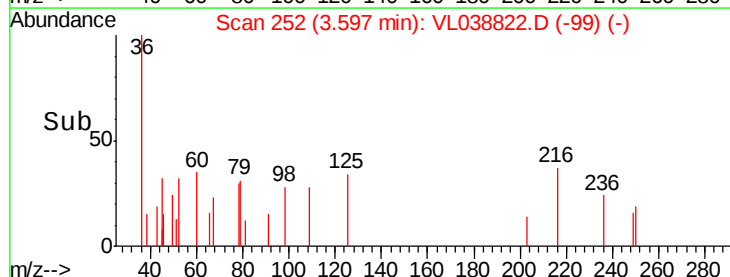
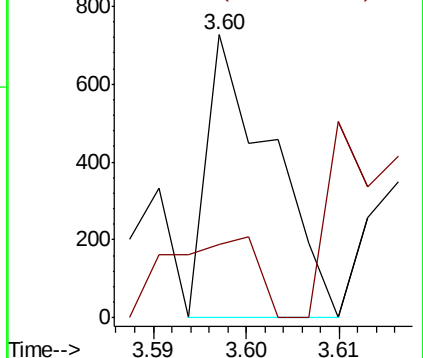
45 100

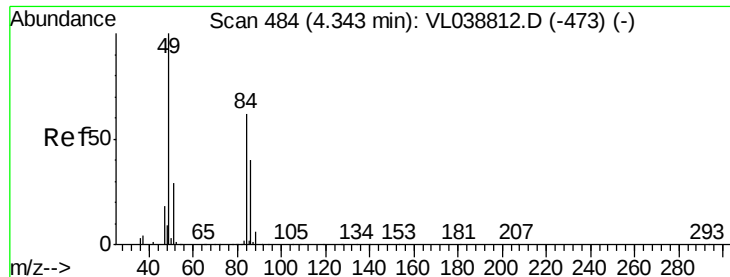
46 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

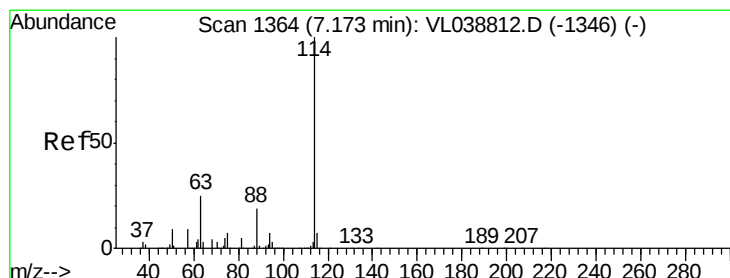
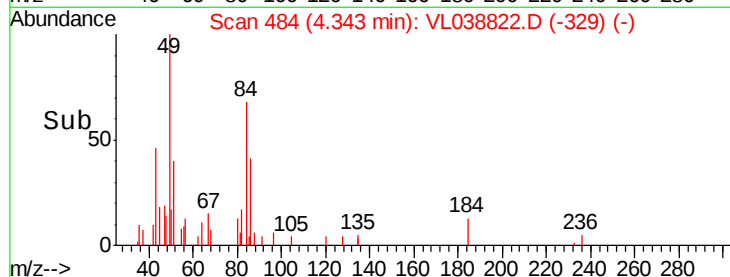
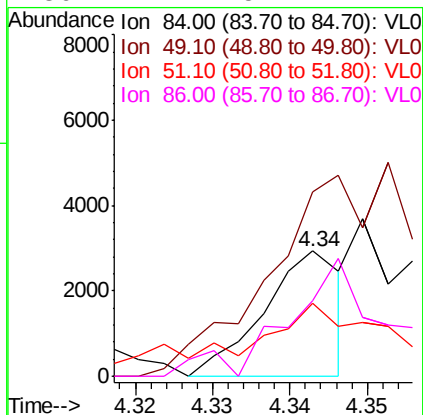
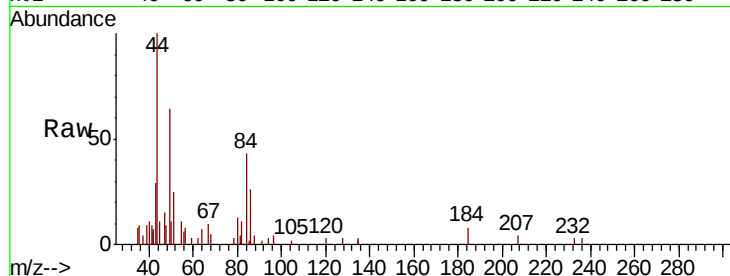
Ion 46.10 (45.80 to 46.80): VL0





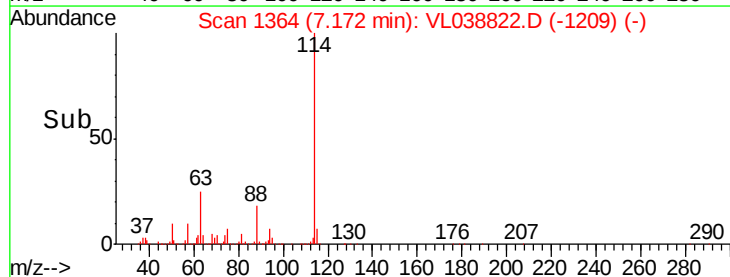
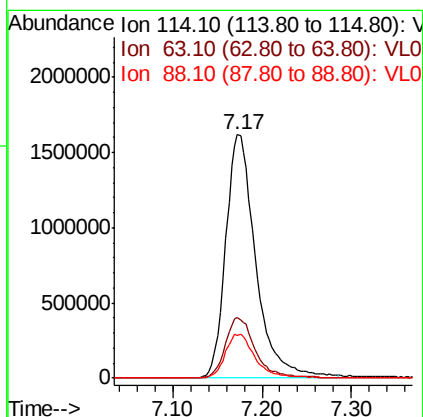
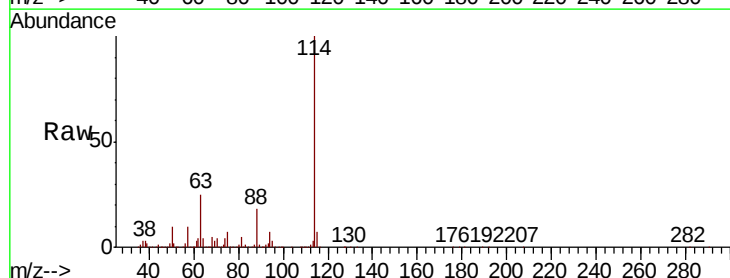
#20  
Methylene Chloride  
Concen: 0.041 ppbv  
RT: 4.34  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 5 Apr 2022 23:06

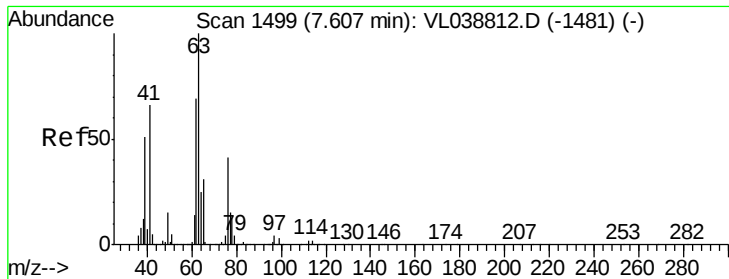
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 2044   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 121.8 | 129.4 | 194.0# |
| 51       | 43.7  | 37.4  | 56.2   |
| 86       | 47.1  | 51.4  | 77.2#  |



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1364  
Delta R.T.: -0.00 min  
Lab File: VL038822.D  
Acq: 5 Apr 2022 23:06

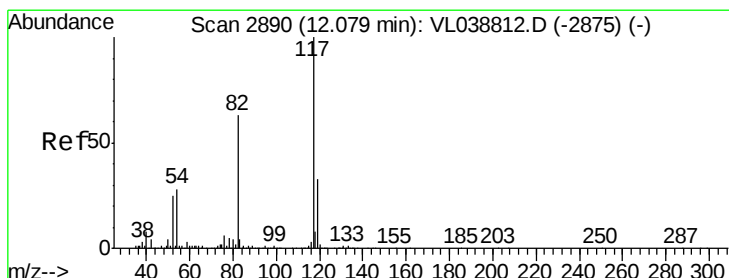
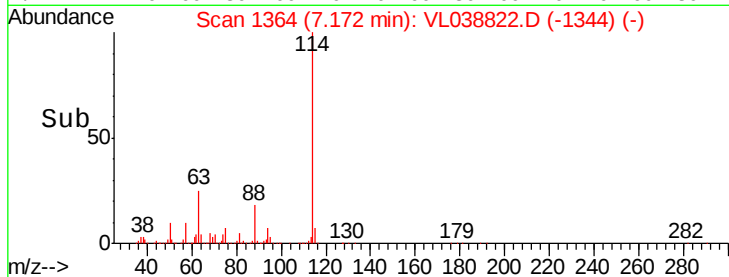
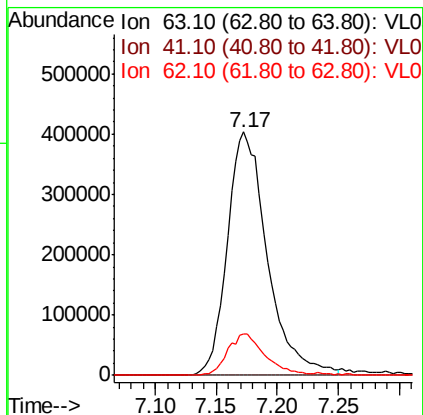
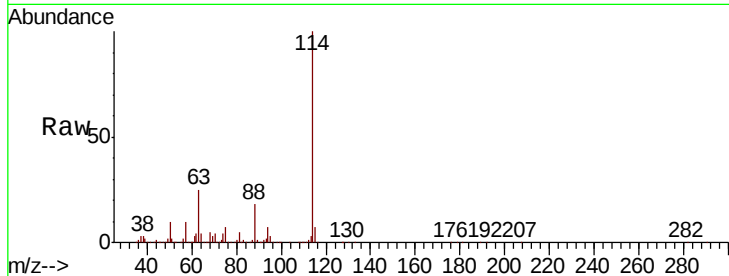
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 114   | Resp: | 3782047 |
| Ion      | Ratio | Lower | Upper   |
| 114      | 100   |       |         |
| 63       | 25.0  | 19.8  | 29.8    |
| 88       | 18.2  | 14.2  | 21.4    |





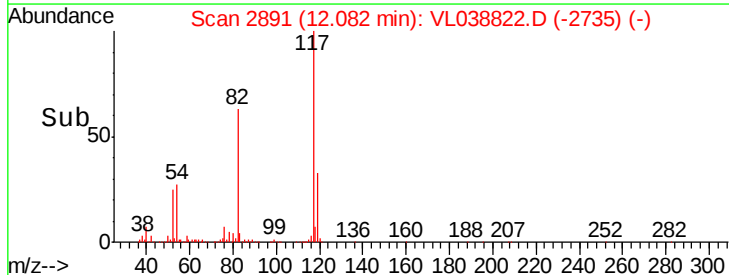
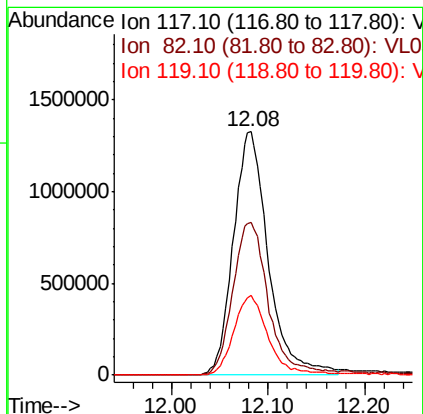
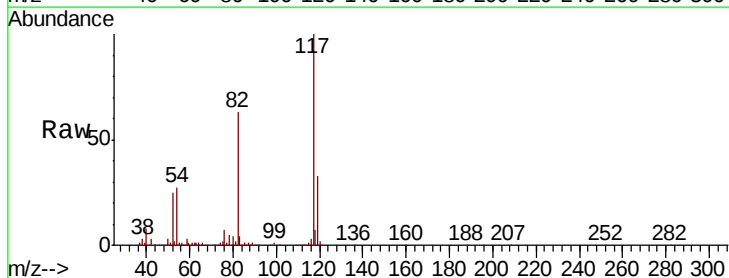
#39  
 1,2-Dichloropropane  
 Concen: 6.996 ppbv  
 RT: 7.17  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 5 Apr 2022 23:06

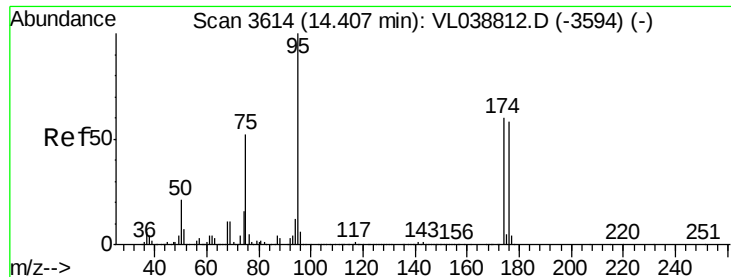
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.0   | 53.0  | 79.6# |
| 62      | 16.9  | 55.0  | 82.4# |



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.08 min Scan# 2891  
 Delta R.T. 0.00 min  
 Lab File: VL038822.D  
 Acq: 5 Apr 2022 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 67.0  | 53.0  | 79.6  |
| 119     | 33.5  | 24.9  | 37.3  |





#68

1-Bromo-4-Fluorobenzene

Concen: 9.966 ppbv

RT: 14.41

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 Apr 2022 23:00

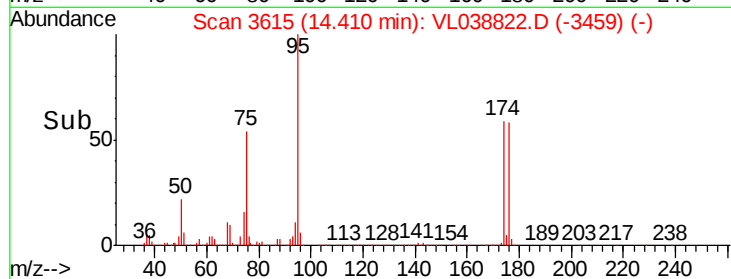
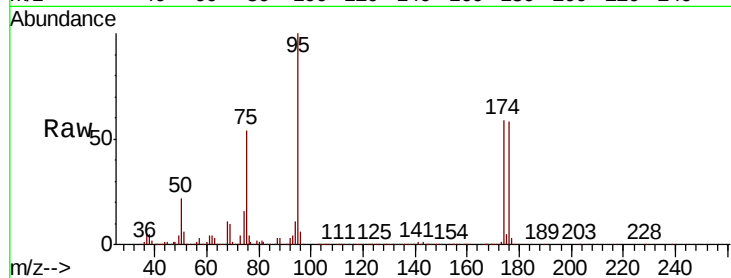
Tot Ion: 95 Resp: 2514150

Ion Ratio Lower Upper

95 100

174 63.7 52.0 78.0

175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

