

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\  
 Data File : VL035043.D  
 Acq On : 19 May 2020 13:43  
 Operator : SY/AP  
 Sample : VL0519ABL01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: May 20 04:43:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed May 06 14:49:39 2020  
 QLast Update : Wed May 06 14:49:39 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1078000  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 2473912  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2396056  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 2029833  | 10.47    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.70% |

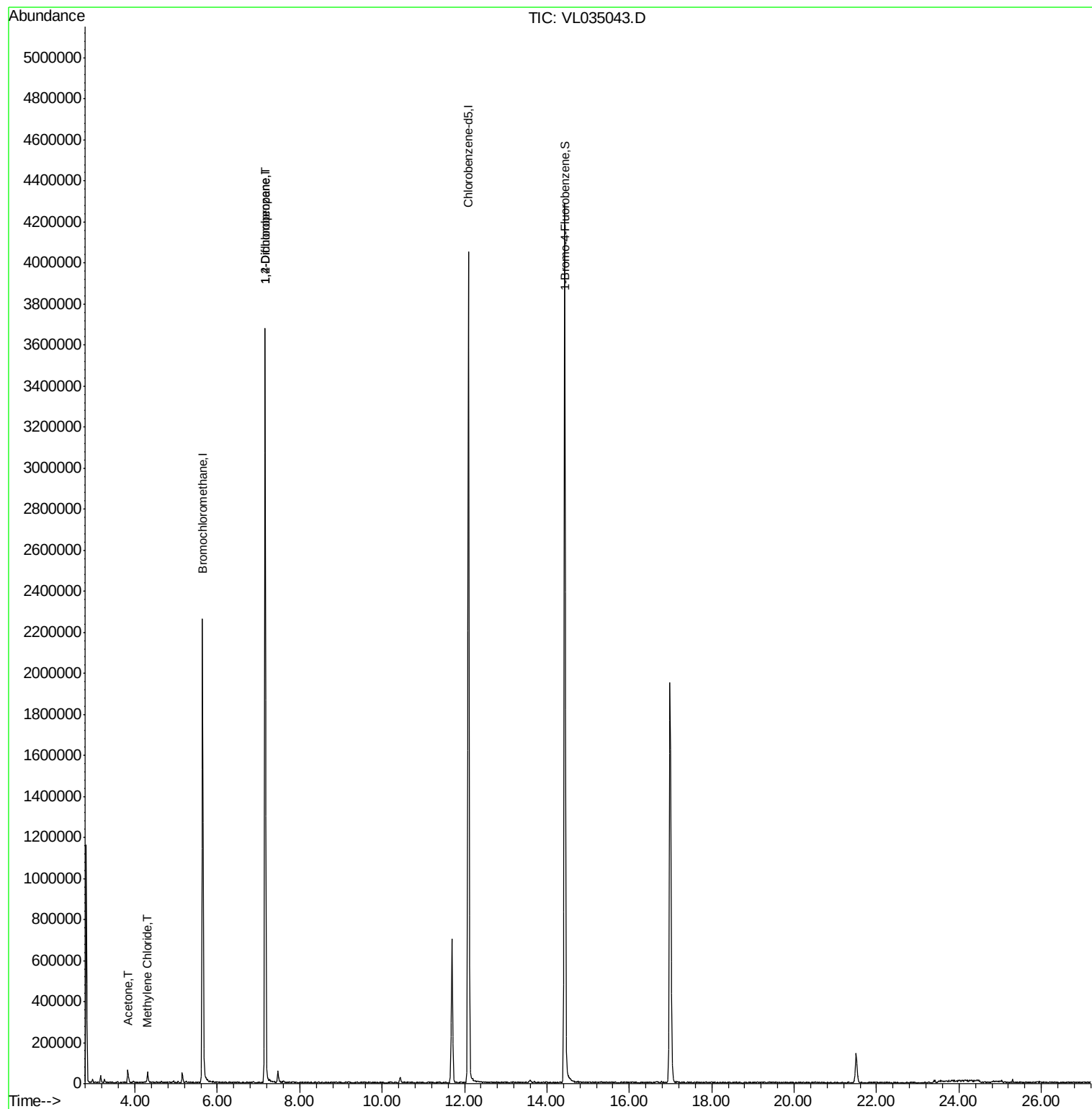
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 15) Acetone             | 3.83 | 43   | 50064    | 0.351 | ppbv # | 61     |
| 20) Methylene Chloride  | 4.31 | 84   | 15371    | 0.326 | ppbv   | 88     |
| 39) 1,2-Dichloropropane | 7.16 | 63   | 680999   | 8.329 | ppbv # | 25     |

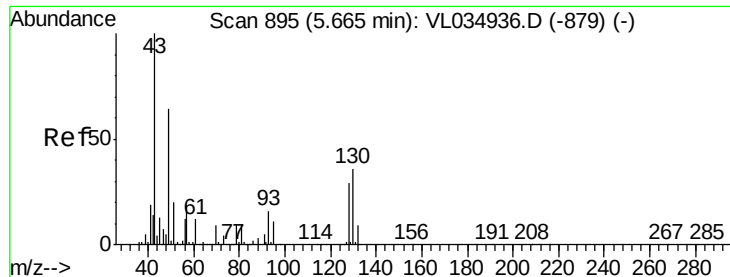
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\  
Data File : VL035043.D  
Acq On : 19 May 2020 13:43  
Operator : SY/AP  
Sample : VL0519ABL01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: May 20 04:43:13 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed May 06 14:49:39 2020  
QLast Update : Wed May 06 14:49:39 2020  
Response via : Initial Calibration

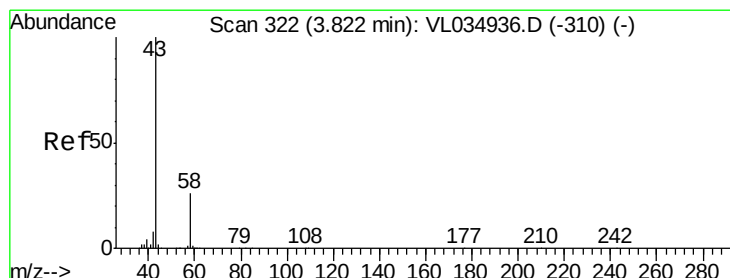
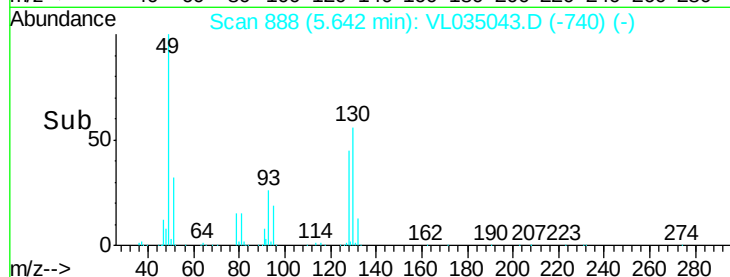
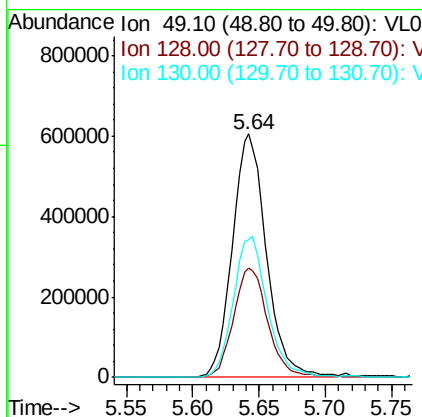
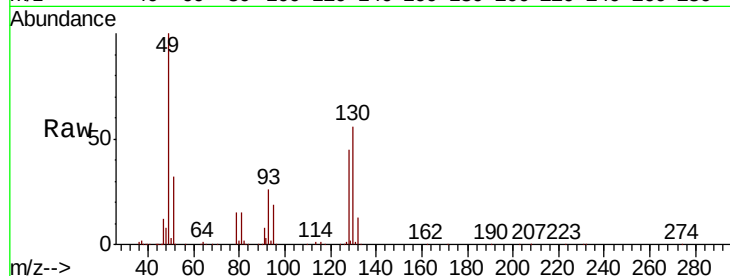




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.64 min Scan# 888  
 Delta R.T. -0.02 min  
 Lab File: VL035043.D  
 Acq: 19 May 2020 13:43

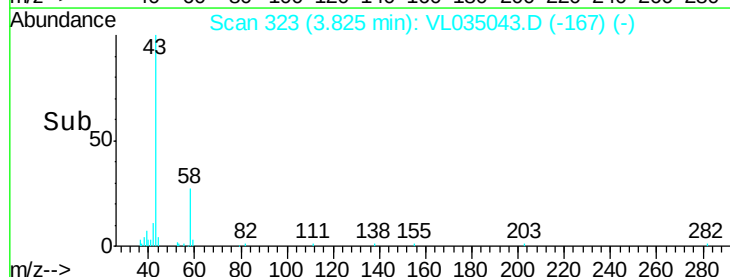
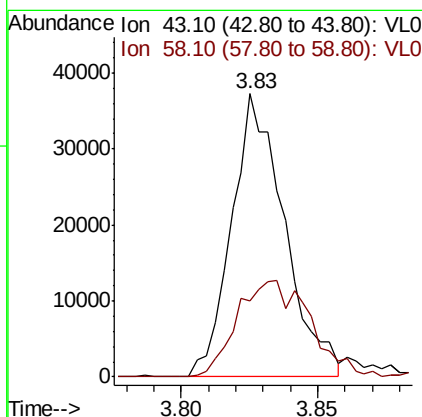
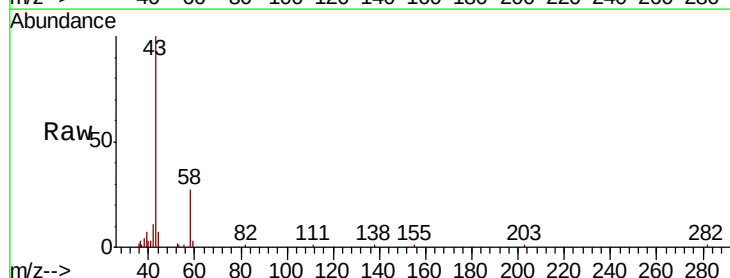
Instrument :  
 MSVOA\_L  
 ClientSampleId :

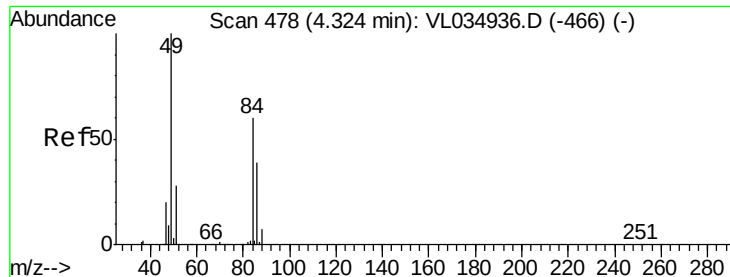
Tot Ion: 49 Resp: 1078000  
 Ion Ratio Lower Upper  
 49 100  
 128 45.8 22.1 66.5  
 130 58.8 29.1 87.3



#15  
 Acetone  
 Concen: 0.351 ppbv  
 RT: 3.83 min Scan# 323  
 Delta R.T. 0.00 min  
 Lab File: VL035043.D  
 Acq: 19 May 2020 13:43

Tgt Ion: 43 Resp: 50064  
 Ion Ratio Lower Upper  
 43 100  
 58 47.4 21.7 32.5#





#20

Methylene Chloride

Concen: 0.326 ppbv

RT: 4.31 min Scan# 473

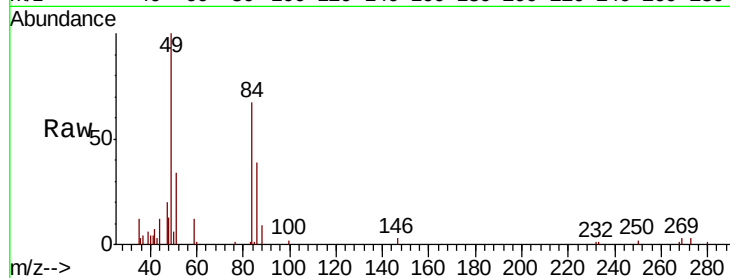
Delta R.T. -0.02 min

Lab File: VL035043.D

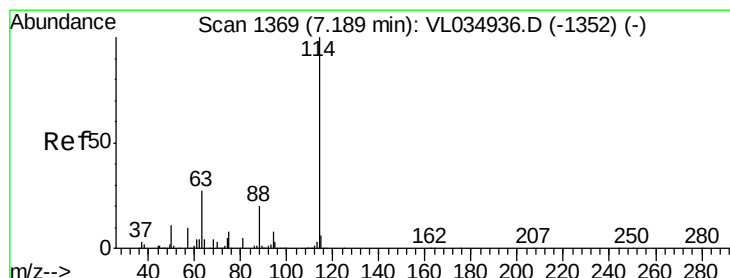
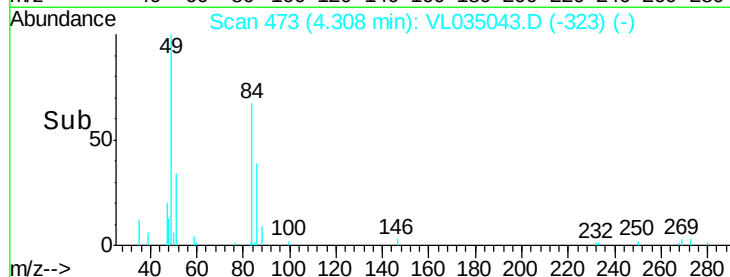
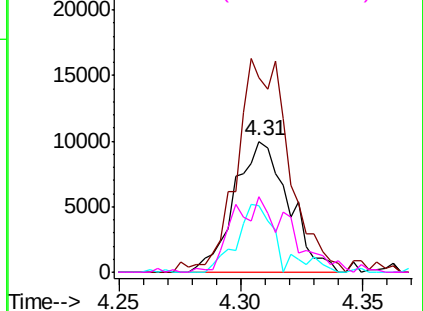
Acq: 19 May 2020 13:43

Instrument :  
MSVOA\_L  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 15371 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 144.9 | 132.5 | 198.7 |
| 51       | 50.9  | 38.4  | 57.6  |
| 86       | 57.7  | 51.2  | 76.8  |



Abundance Ion 84.00 (83.70 to 84.70): VL0  
Ion 49.10 (48.80 to 49.80): VL0  
Ion 51.10 (50.80 to 51.80): VL0  
Ion 86.00 (85.70 to 86.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

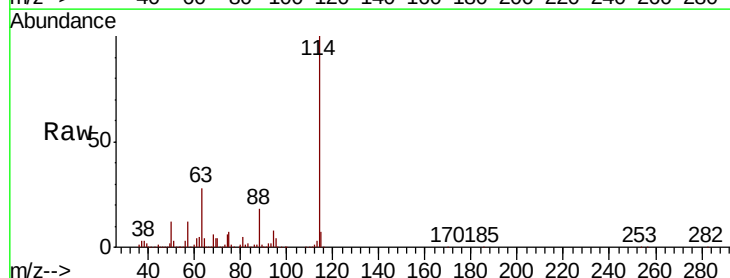
RT: 7.16 min Scan# 1361

Delta R.T. -0.03 min

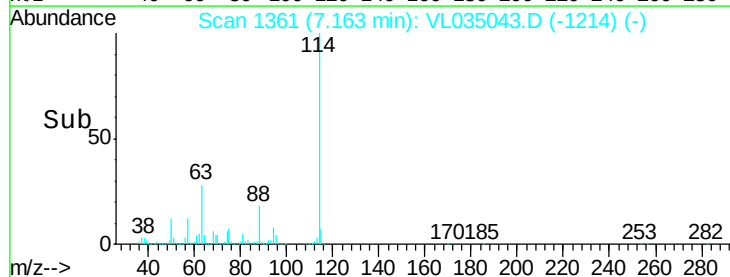
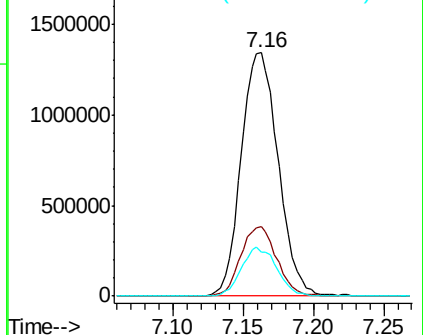
Lab File: VL035043.D

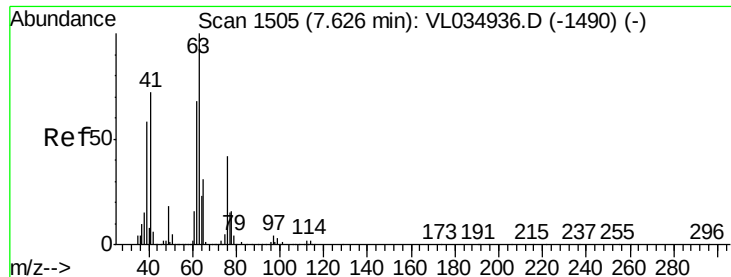
Acq: 19 May 2020 13:43

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 114   | Resp: | 2473912 |
| Ion      | Ratio | Lower | Upper   |
| 114      | 100   |       |         |
| 63       | 27.9  | 22.2  | 33.4    |
| 88       | 19.4  | 15.5  | 23.3    |



Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0

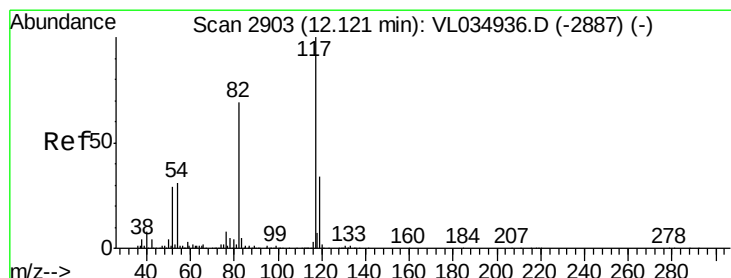
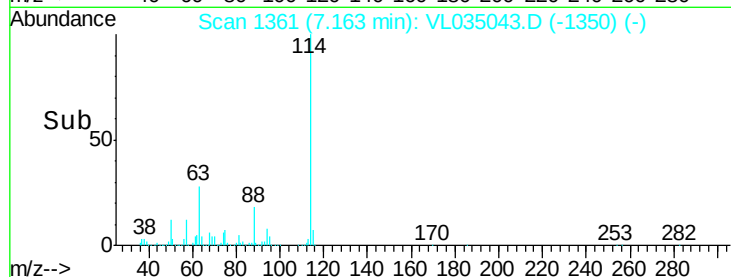
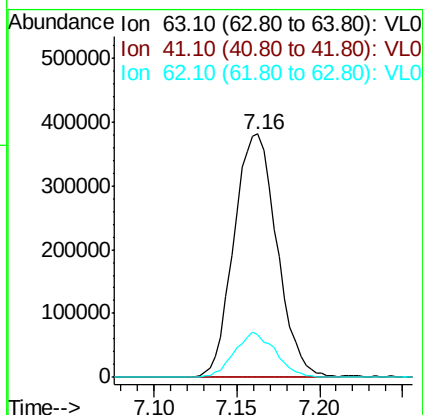
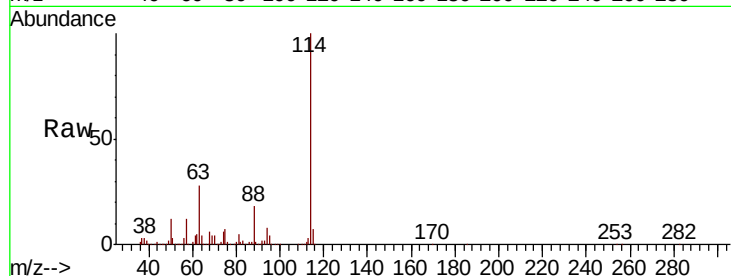




#39  
 1,2-Dichloropropane  
 Concen: 8.329 ppbv  
 RT: 7.16 min Scan# 1361  
 Delta R.T. -0.46 min  
 Lab File: VL035043.D  
 Acq: 19 May 2020 13:43

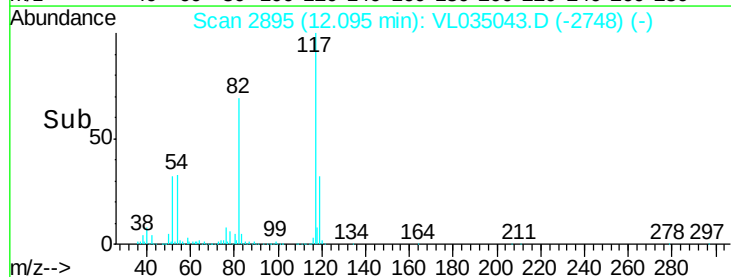
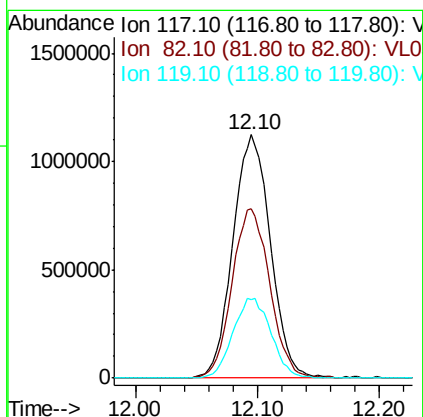
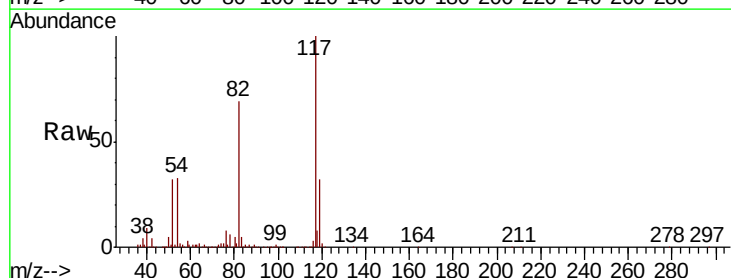
Instrument :  
 MSVOA\_L  
 ClientSampleId :

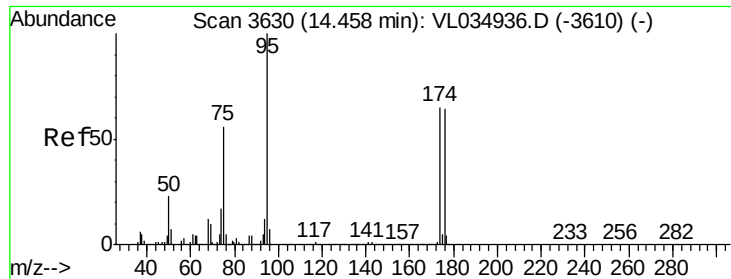
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.1   | 57.8  | 86.8# |
| 62      | 17.4  | 54.2  | 81.2# |



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.10 min Scan# 2895  
 Delta R.T. -0.03 min  
 Lab File: VL035043.D  
 Acq: 19 May 2020 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 70.2  | 53.1  | 79.7  |
| 119     | 33.5  | 26.7  | 40.1  |





#68

1-Bromo-4-Fluorobenzene

Concen: 10.466 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.03 min

Lab File: VL035043.D

Acq: 19 May 2020 13:43

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 95 Resp: 2029833

Ion Ratio Lower Upper

95 100

174 64.0 51.5 77.3

175 5.0 3.8 5.8

