

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090321\  
 Data File : VL037516.D  
 Acq On : 3 Sep 2021 11:57  
 Operator : SY/AP  
 Sample : VL0903ABL01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABL01

Quant Time: Sep 04 04:20:49 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 17 02:13:47 2021  
 QLast Update : Tue Aug 17 02:13:47 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1369628  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4166059  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3535057  | 10.00 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2528536  | 10.07    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.70% |

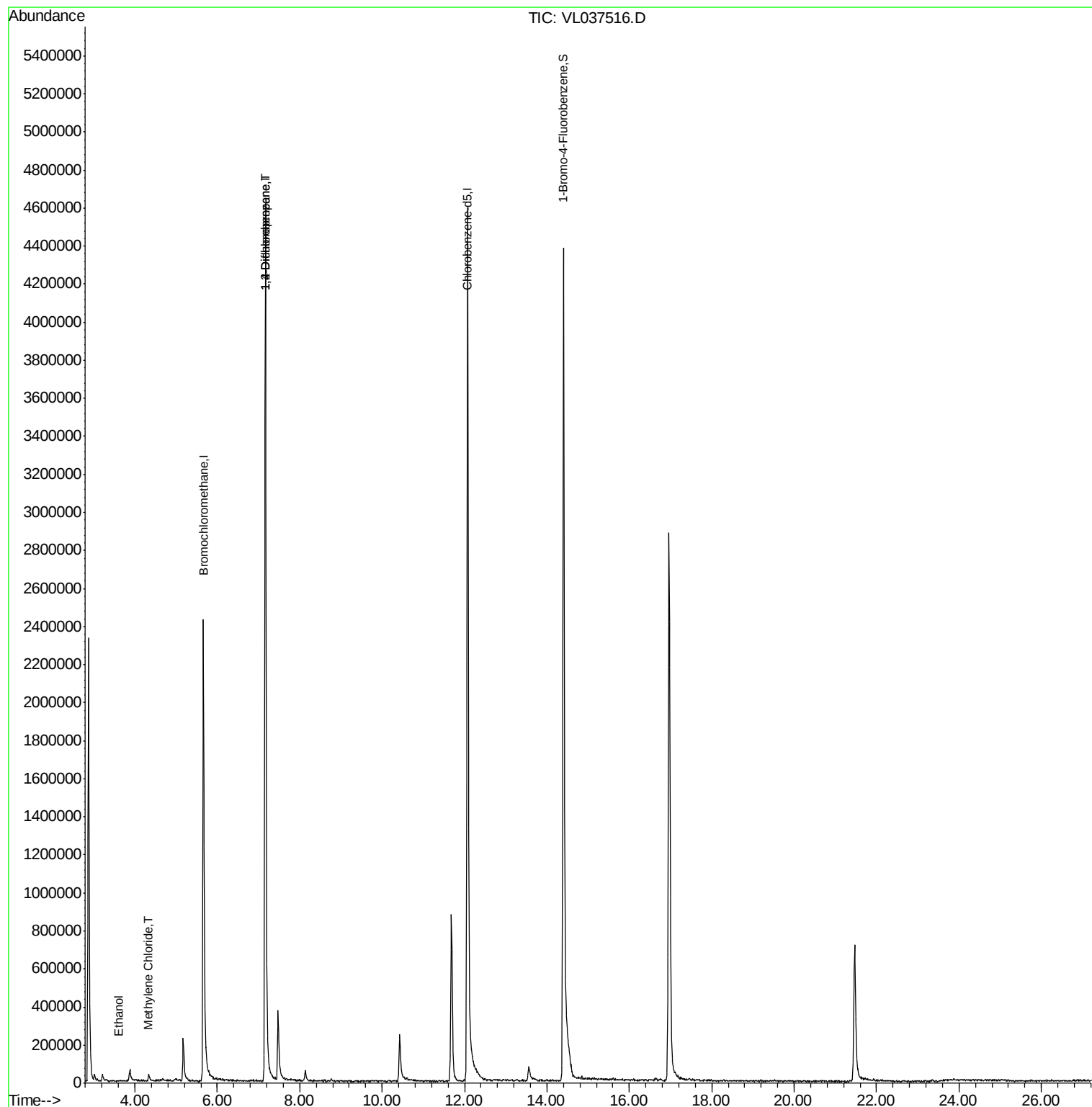
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 13) Ethanol             | 3.61 | 45   | 1030     | 0.113 | ppbv # | 39     |
| 20) Methylene Chloride  | 4.34 | 84   | 6574     | 0.094 | ppbv   | 94     |
| 39) 1,2-Dichloropropane | 7.17 | 63   | 943878   | 7.014 | ppbv # | 27     |

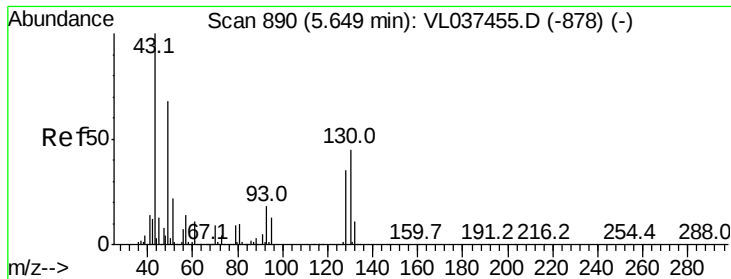
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090321\  
Data File : VL037516.D  
Acq On : 3 Sep 2021 11:57  
Operator : SY/AP  
Sample : VL0903ABL01  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABL01

Quant Time: Sep 04 04:20:49 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 17 02:13:47 2021  
QLast Update : Tue Aug 17 02:13:47 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

Lab File: VL037516.D

Acq: 3 Sep 2021 11:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABL01

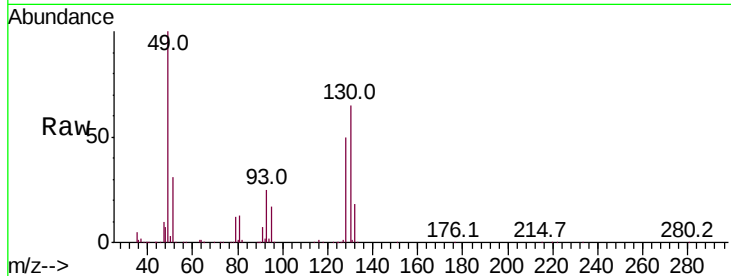
Tot Ion: 49 Resp: 1369628

Ion Ratio Lower Upper

49 100

128 55.2 27.5 82.4

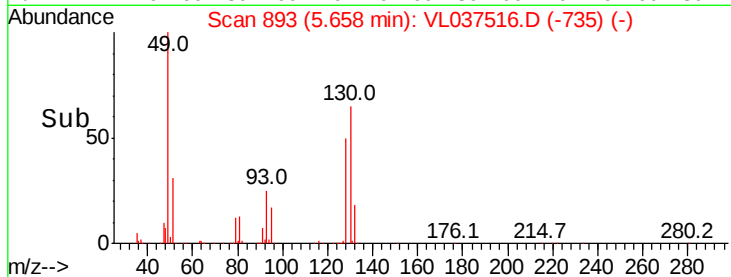
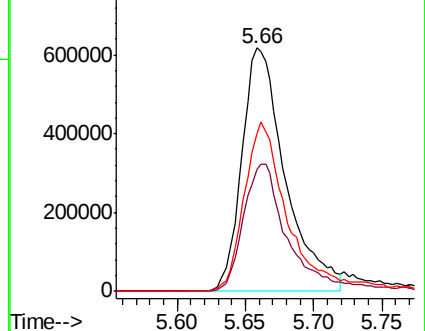
130 72.2 34.0 101.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#13

Ethanol

Concen: 0.113 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL037516.D

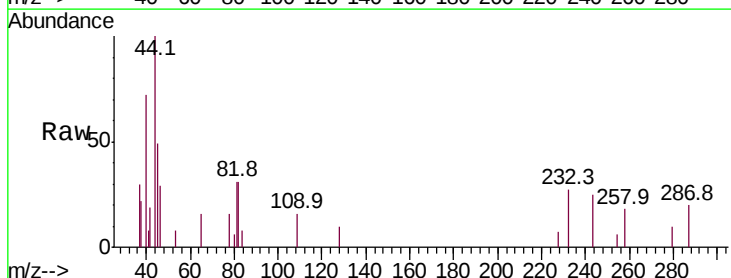
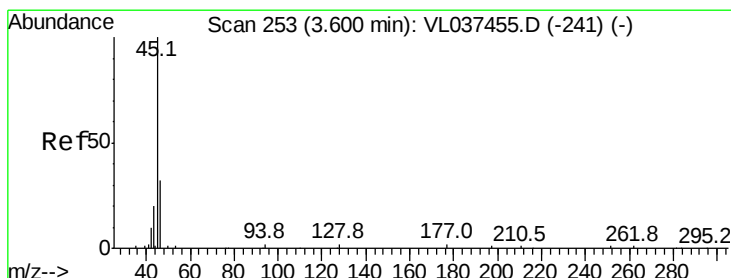
Acq: 3 Sep 2021 11:57

Tgt Ion: 45 Resp: 1030

Ion Ratio Lower Upper

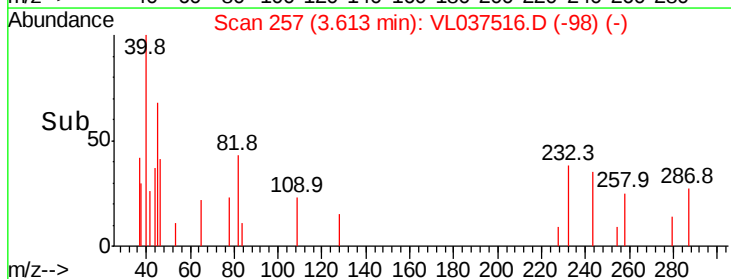
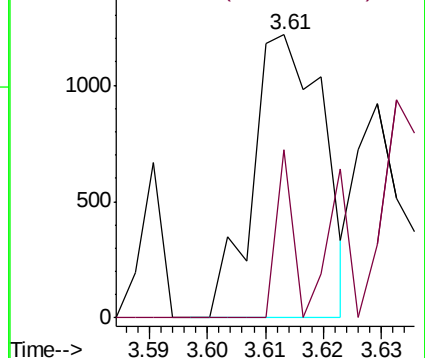
45 100

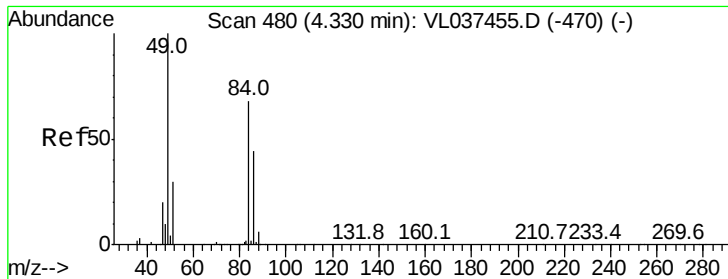
46 0.0 14.1 56.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

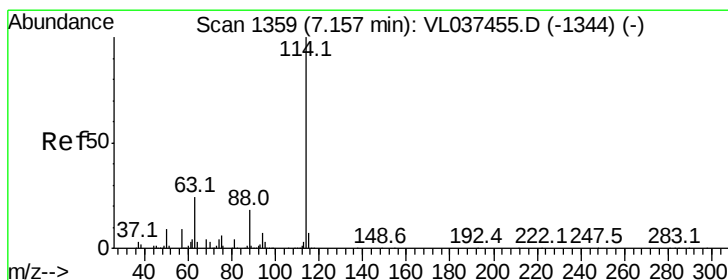
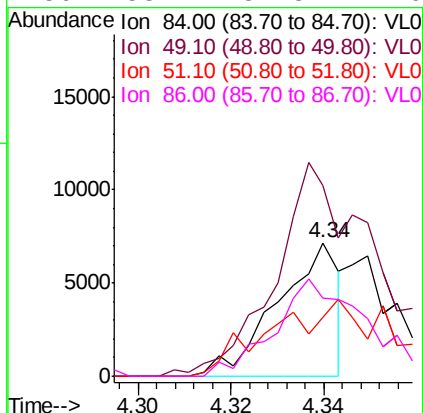
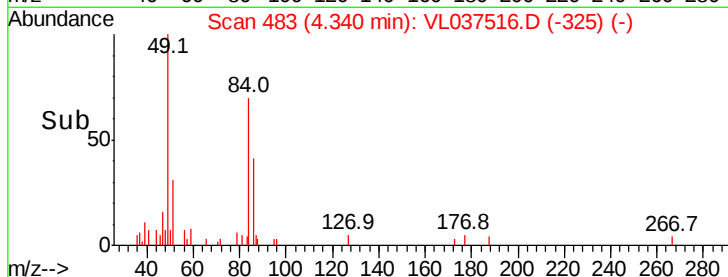
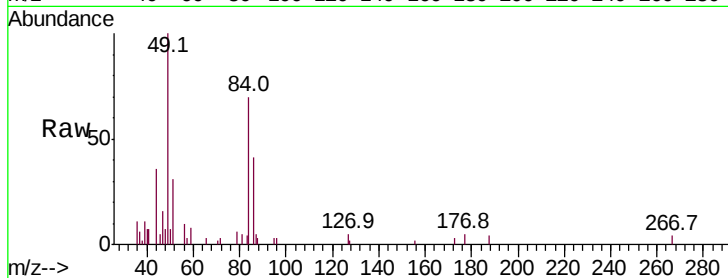




#20  
Methylene Chloride  
Concen: 0.094 ppbv  
RT: 4.34 min Scan# 483  
Delta R.T. 0.01 min  
Lab File: VL037516.D  
Acq: 3 Sep 2021 11:57

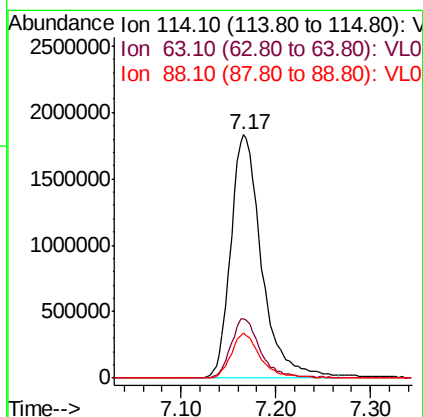
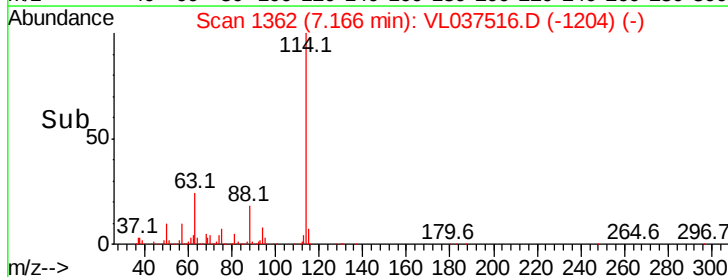
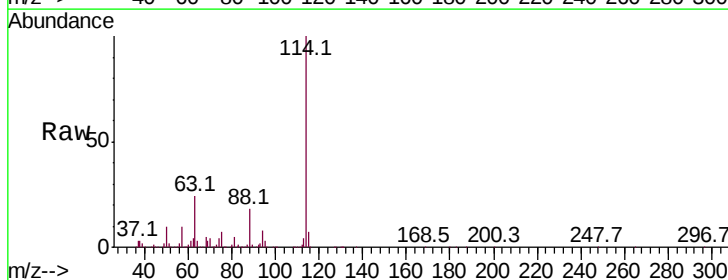
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABL01

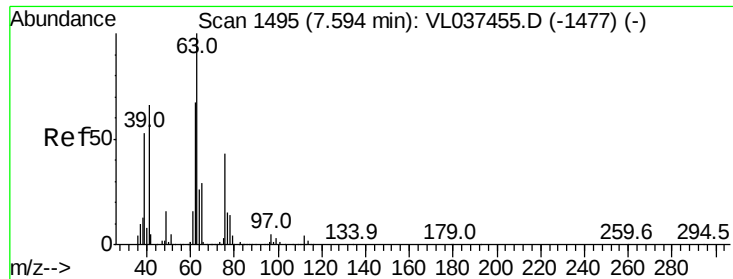
|             |             |
|-------------|-------------|
| Tot Ion: 84 | Resp: 6574  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 139.5    | 118.2 177.2 |
| 51 43.7     | 36.6 55.0   |
| 86 58.7     | 51.8 77.6   |



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1362  
Delta R.T. 0.01 min  
Lab File: VL037516.D  
Acq: 3 Sep 2021 11:57

|         |         |               |       |
|---------|---------|---------------|-------|
| Tgt Ion | Ion:114 | Resp: 4166059 |       |
|         | Ratio   | Lower         | Upper |
| 114     | 100     |               |       |
| 63      | 23.6    | 19.3          | 28.9  |
| 88      | 17.7    | 14.2          | 21.4  |

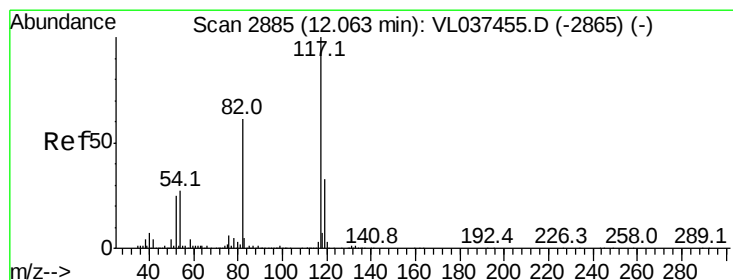
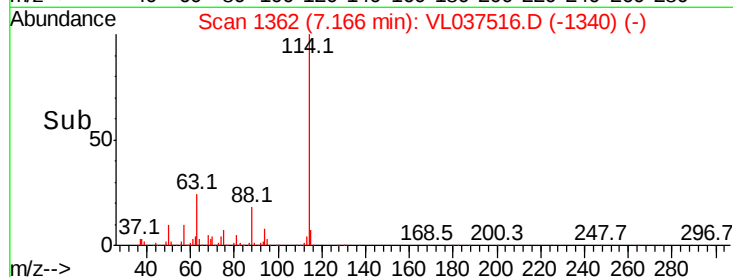
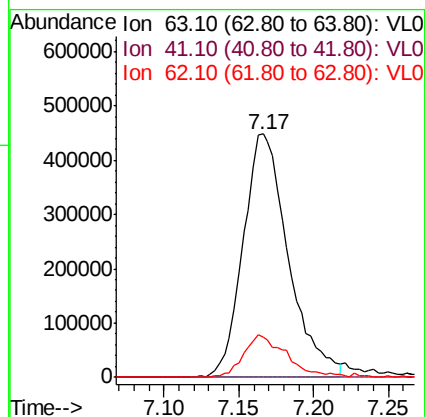
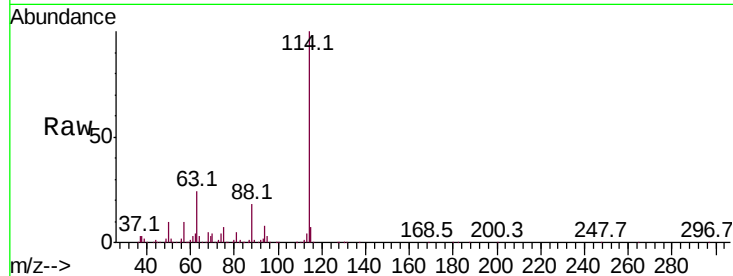




#39  
 1,2-Dichloropropane  
 Concen: 7.014 ppbv  
 RT: 7.17 min Scan# 1362  
 Delta R.T. -0.43 min  
 Lab File: VL037516.D  
 Acq: 3 Sep 2021 11:57

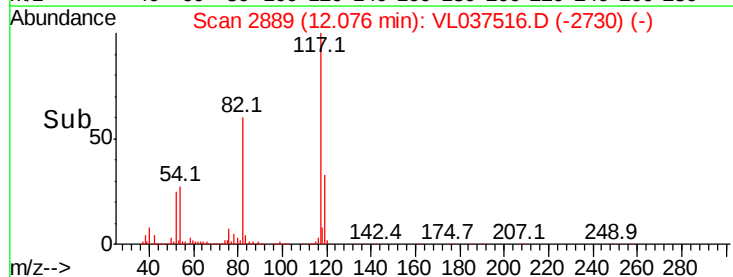
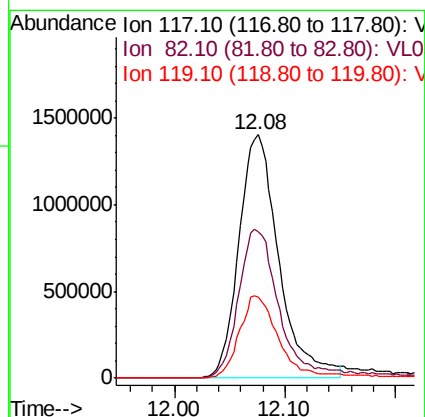
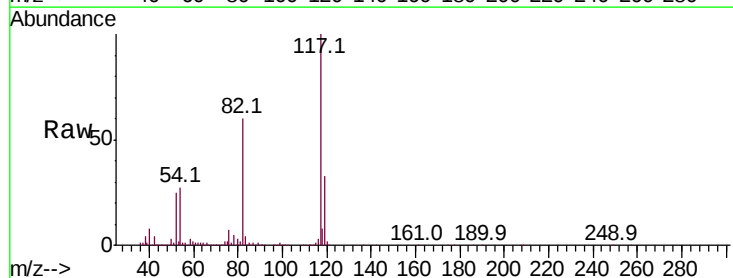
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABL01

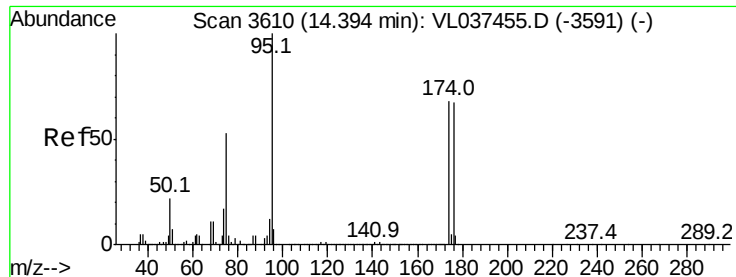
Tot Ion: 63 Resp: 943878  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 52.4 78.6#  
 62 16.3 53.6 80.4#



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.08 min Scan# 2889  
 Delta R.T. 0.01 min  
 Lab File: VL037516.D  
 Acq: 3 Sep 2021 11:57

Tgt Ion: 117 Resp: 3535057  
 Ion Ratio Lower Upper  
 117 100  
 82 65.2 52.9 79.3  
 119 35.3 24.8 37.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.068 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. 0.01 min

Lab File: VL037516.D

Acq: 3 Sep 2021 11:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABL01

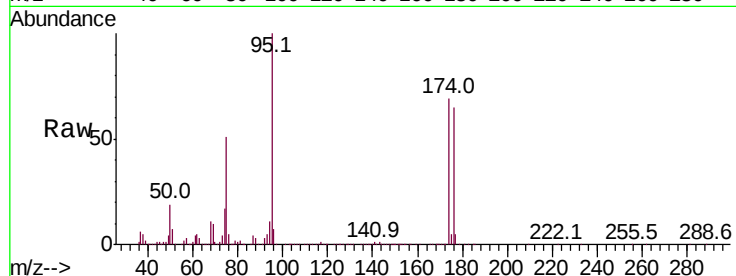
Tot Ion: 95 Resp: 2528536

Ion Ratio Lower Upper

95 100

174 75.5 59.6 89.4

175 5.7 4.6 7.0



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

