

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041322\  
 Data File : VL038909.D  
 Acq On : 13 Apr 2022 18:54  
 Operator : SY/AP  
 Sample : N2383-01DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 1DL

Quant Time: Apr 25 08:29:15 2022  
 Quant Method : Z:\VOASRV\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

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1162899  | 10.00 | ppbv  | 0.01     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2696266  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2338475  | 10.00 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 1918819  | 10.82    | ppbv | 0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 108.20% |

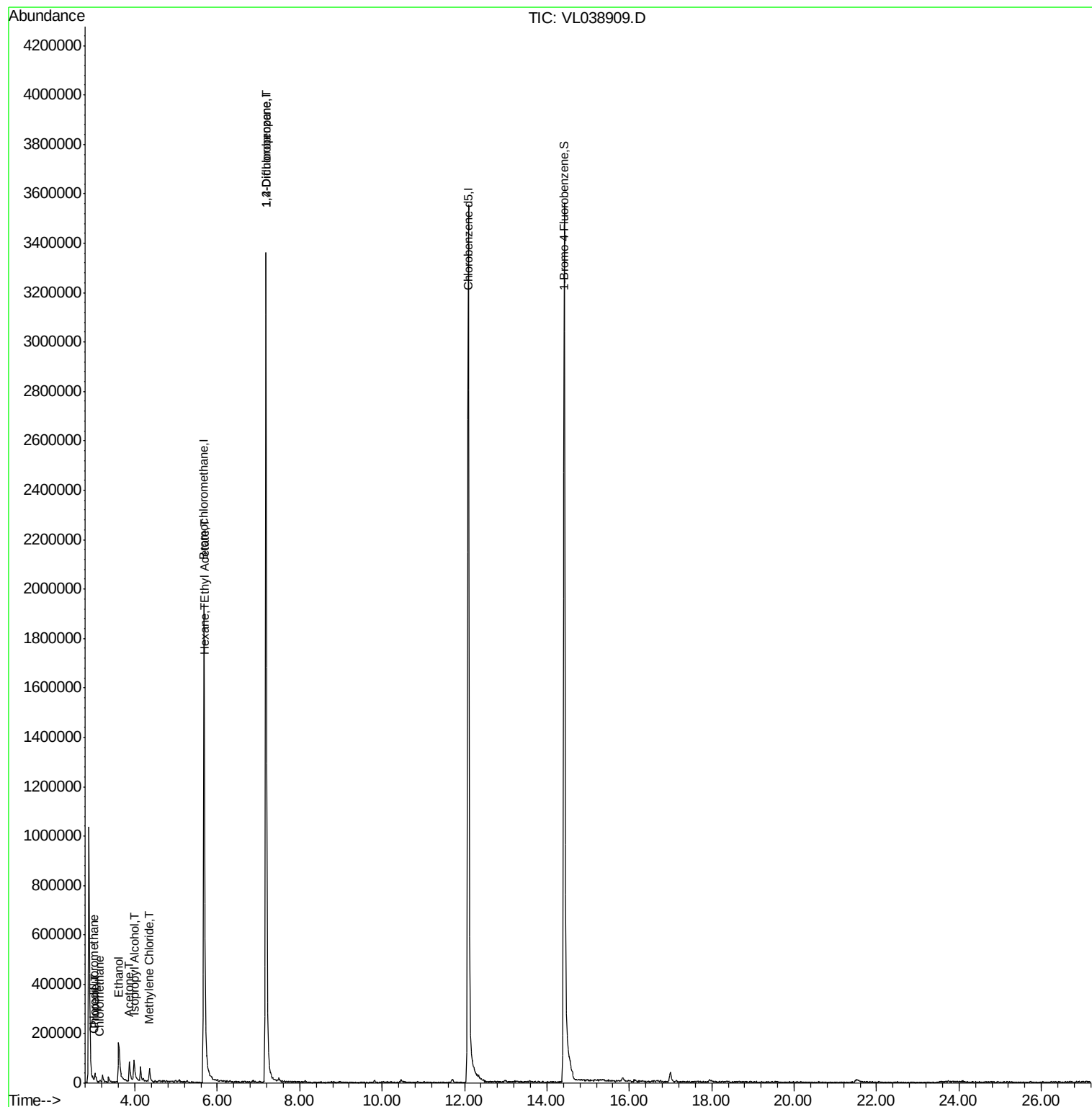
| Target Compounds         | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------|------|------|----------|--------|--------|--------|
| 3) Chlorodifluoromethane | 3.00 | 51   | 17772    | 0.125  | ppbv   | 95     |
| 4) Chloromethane         | 3.15 | 50   | 2503     | 0.034  | ppbv # | 68     |
| 9) Propene               | 3.03 | 41   | 8303     | 0.111  | ppbv   | 92     |
| 13) Ethanol              | 3.61 | 45   | 193323   | 42.366 | ppbv # | 100    |
| 15) Acetone              | 3.86 | 43   | 95825    | 0.828  | ppbv   | 98     |
| 19) Isopropyl Alcohol    | 3.98 | 45   | 99693    | 1.685  | ppbv # | 100    |
| 20) Methylene Chloride   | 4.35 | 84   | 10642    | 0.253  | ppbv   | 89     |
| 25) Ethyl Acetate        | 5.69 | 43   | 9573     | 0.033  | ppbv # | 86     |
| 26) Hexane               | 5.69 | 57   | 10392    | 0.078  | ppbv # | 47     |
| 39) 1,2-Dichloropropane  | 7.18 | 63   | 755482   | 8.053  | ppbv # | 26     |

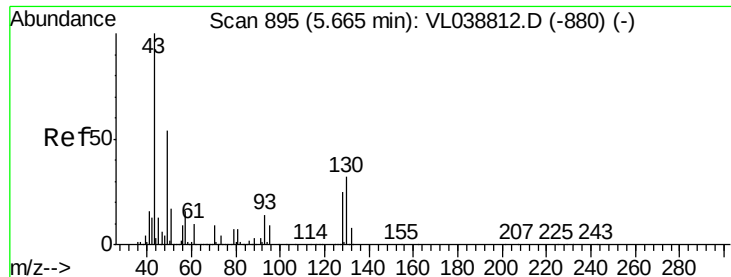
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041322\  
Data File : VL038909.D  
Acq On : 13 Apr 2022 18:54  
Operator : SY/AP  
Sample : N2383-01DL 10X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
1DL

Quant Time: Apr 25 08:29:15 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: 5.68 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: 1DL

Acq: 13 Apr 2022 18:54

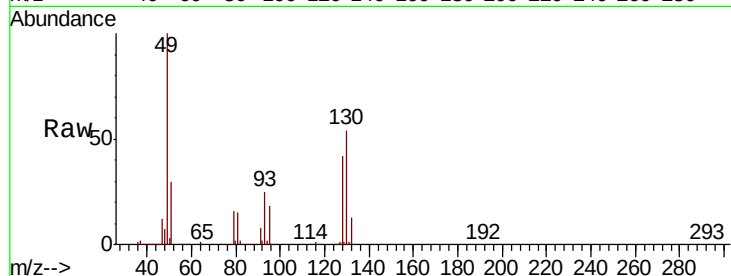
Tot Ion: 49 Resp: 1162899

Ion Ratio Lower Upper

49 100

128 46.4 24.1 72.3

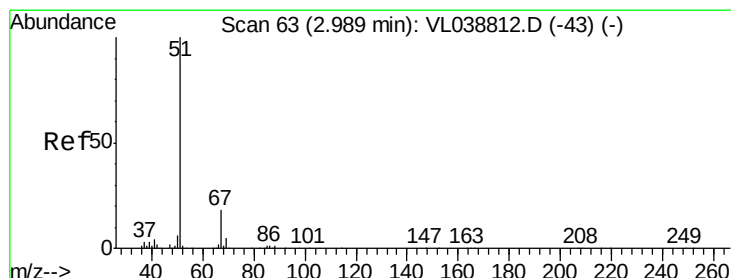
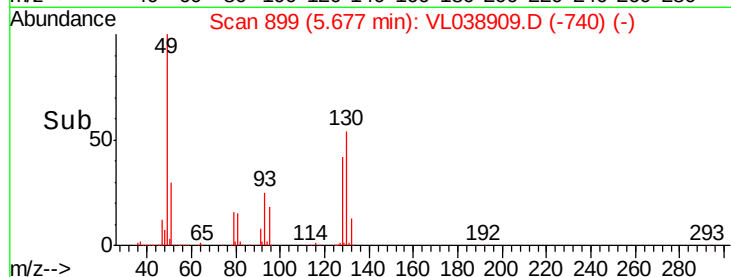
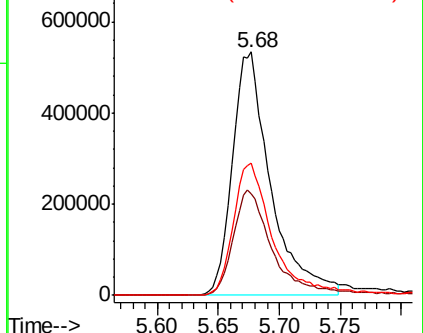
130 59.0 30.9 92.8



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



#3

Chlorodifluoromethane

Concen: 0.125 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL038909.D

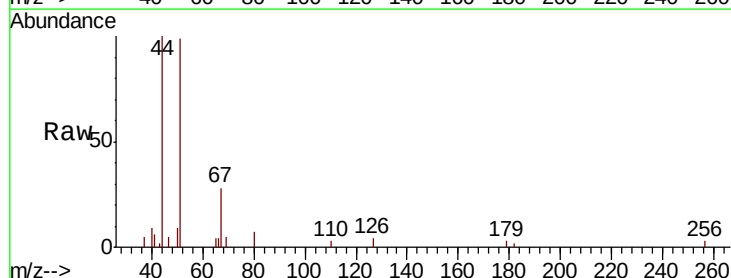
Acq: 13 Apr 2022 18:54

Tgt Ion: 51 Resp: 17772

Ion Ratio Lower Upper

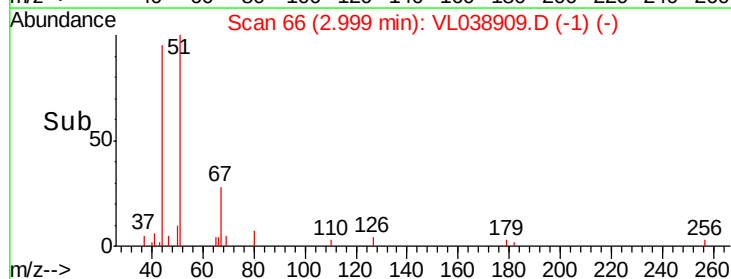
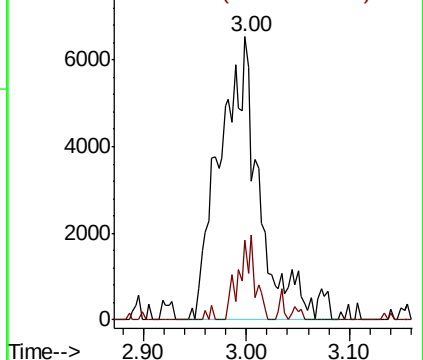
51 100

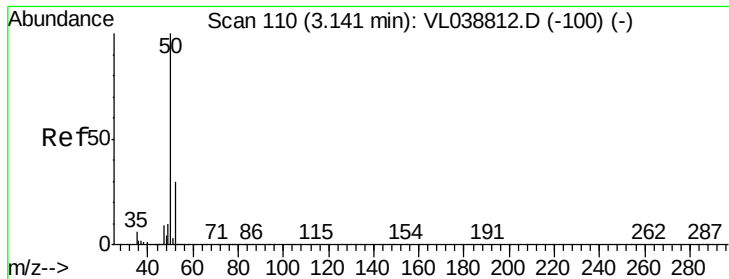
67 14.4 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

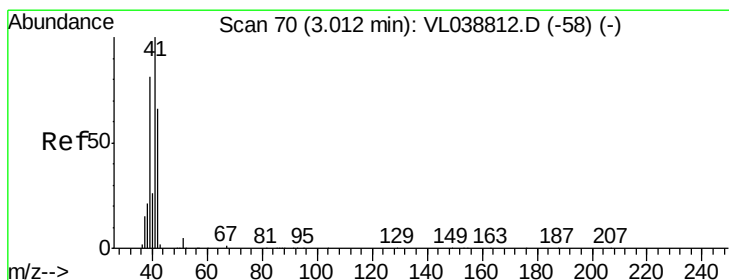
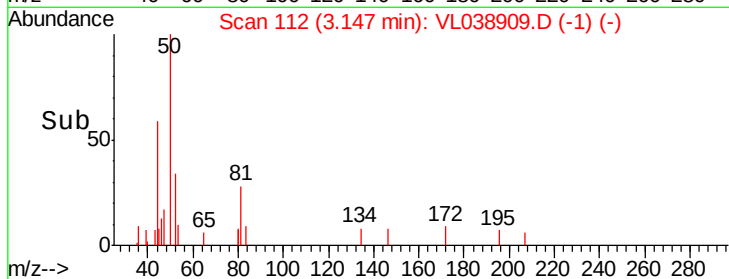
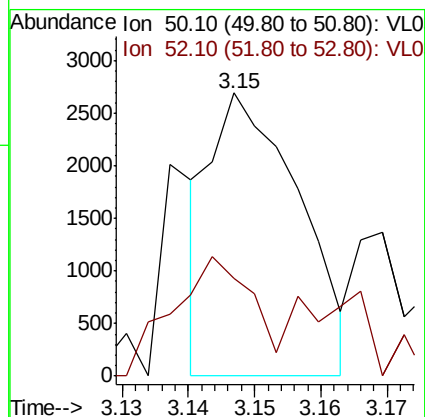
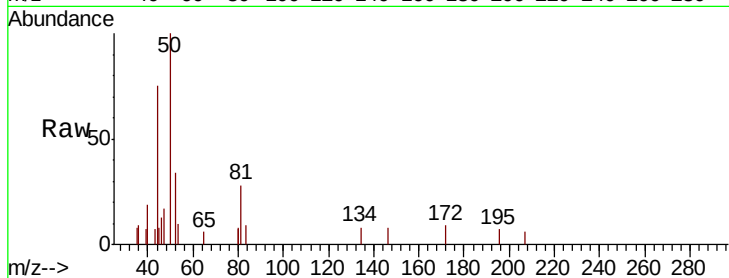
Acq: 13 Apr 2022 18:54

Tot Ion: 50 Resp: 2503

Ion Ratio Lower Upper

50 100

52 12.9 24.3 36.5#



#9

Propene

Concen: 0.111 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL038909.D

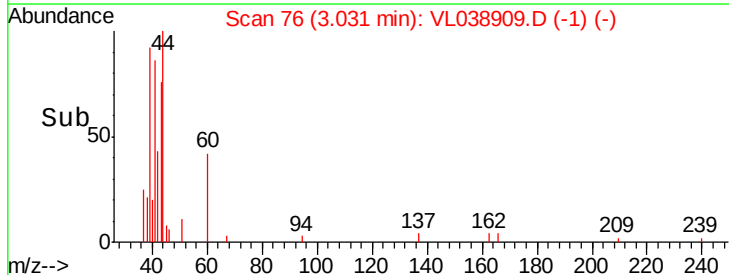
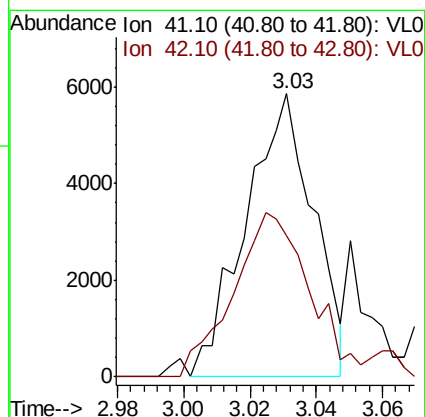
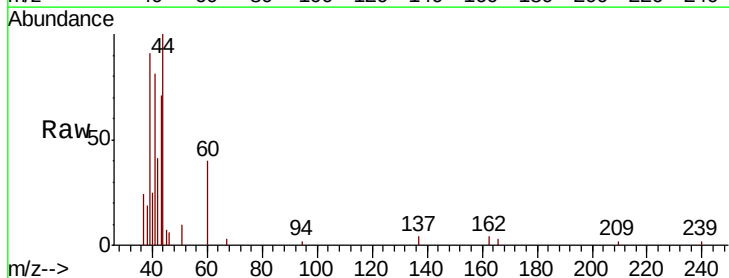
Acq: 13 Apr 2022 18:54

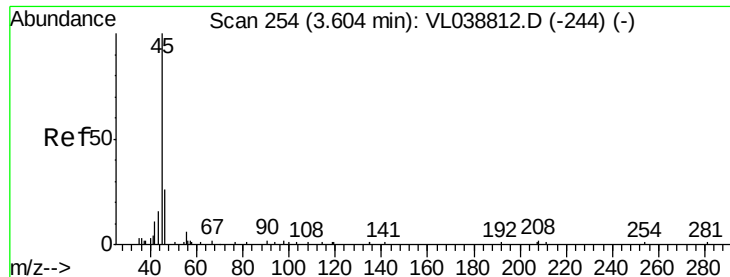
Tgt Ion: 41 Resp: 8303

Ion Ratio Lower Upper

41 100

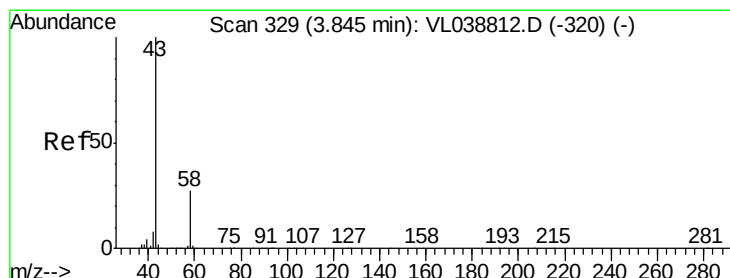
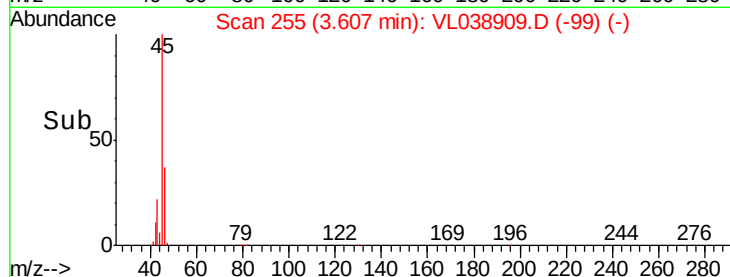
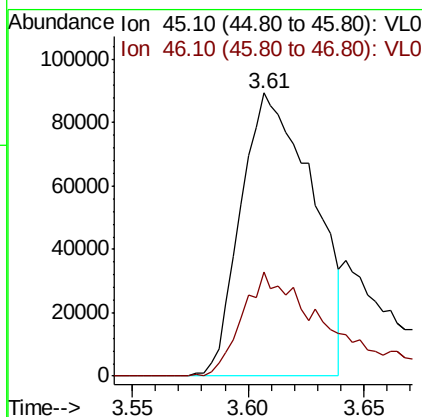
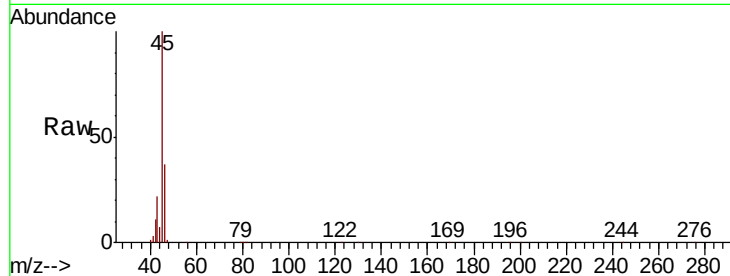
42 74.2 54.2 81.4





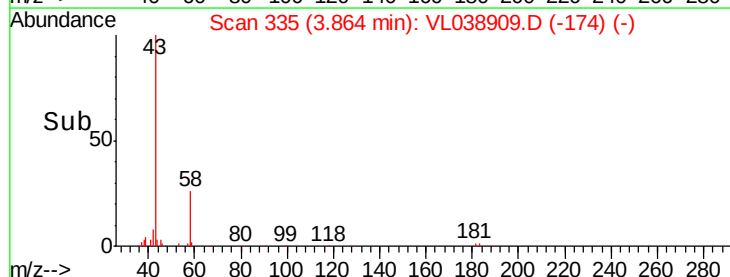
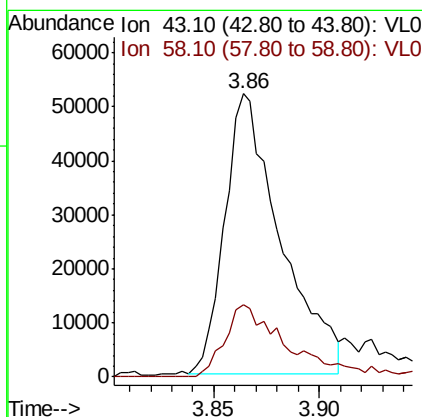
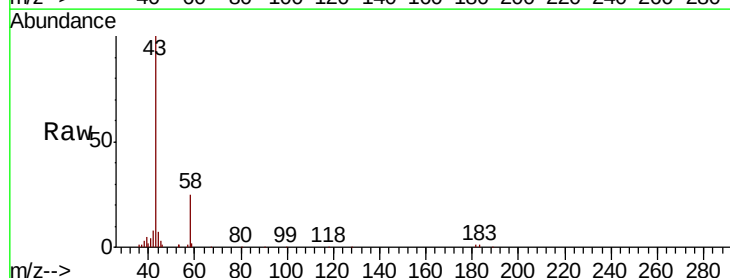
#13  
 Ethanol  
 Concen: 42.366 ppbv  
 RT: 3.61  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 13 Apr 2022 18:54

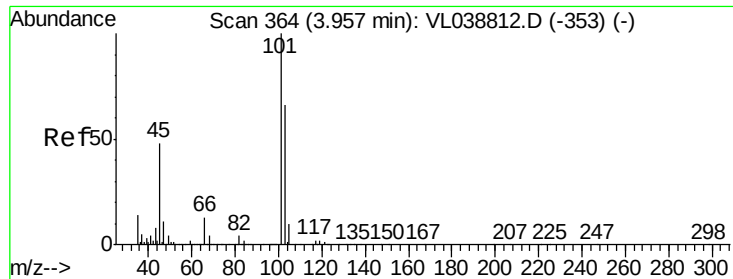
Tot Ion: 45 Resp: 193323  
 Ion Ratio Lower Upper  
 45 100  
 46 50.7 0.0 0.0#



#15  
 Acetone  
 Concen: 0.828 ppbv  
 RT: 3.86 min Scan# 335  
 Delta R.T. 0.02 min  
 Lab File: VL038909.D  
 Acq: 13 Apr 2022 18:54

Tgt Ion: 43 Resp: 95825  
 Ion Ratio Lower Upper  
 43 100  
 58 29.1 22.5 33.7





#19

Isopropyl Alcohol

Concen: 1.685 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

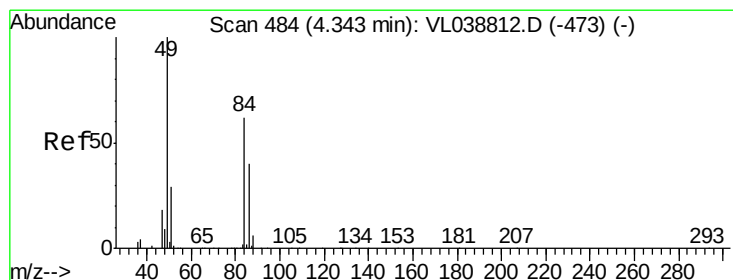
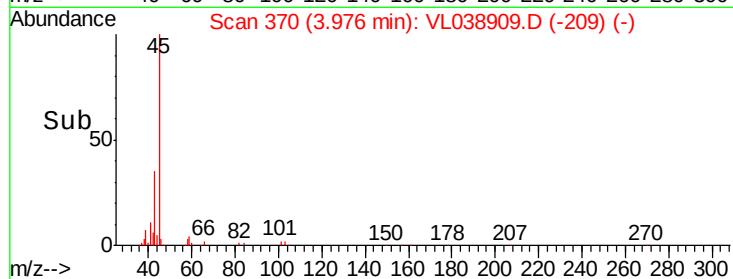
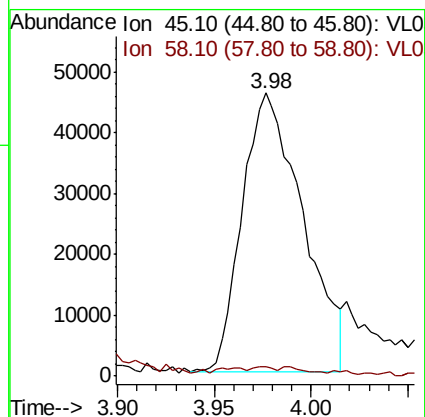
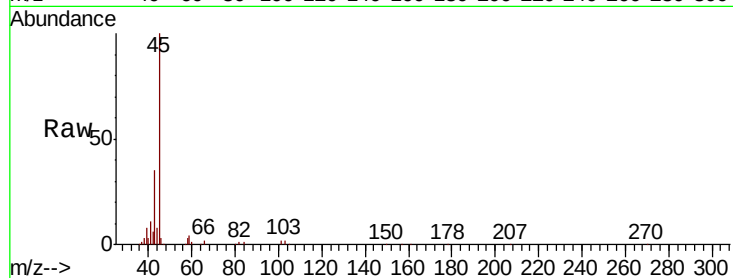
Acq: 13 Apr 2022 18:54

Tot Ion: 45 Resp: 99693

Ion Ratio Lower Upper

45 100

58 5.3 0.0 0.0#



#20

Methylene Chloride

Concen: 0.253 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038909.D

Acq: 13 Apr 2022 18:54

Tgt Ion: 84 Resp: 10642

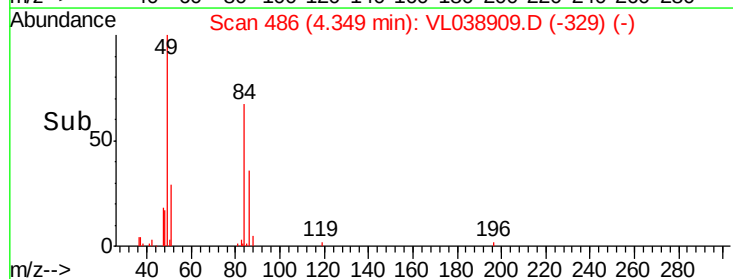
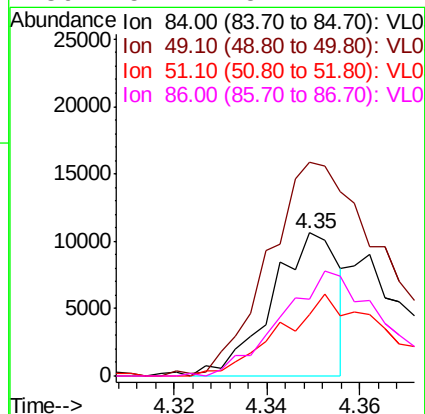
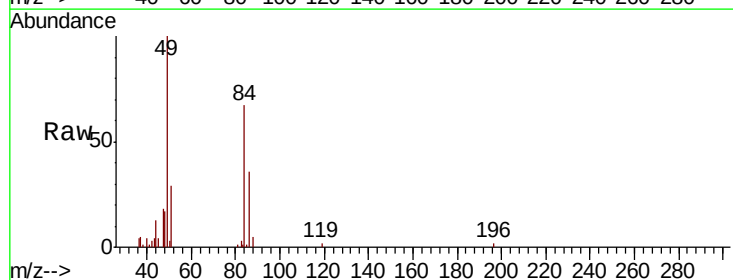
Ion Ratio Lower Upper

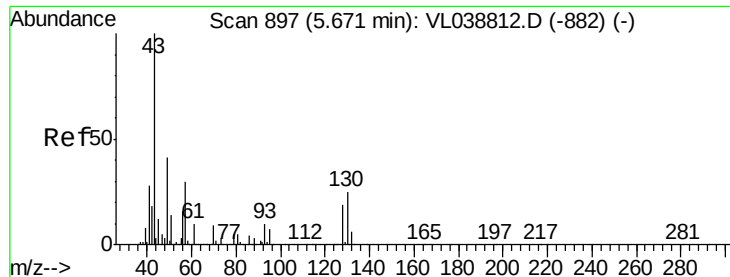
84 100

49 147.6 129.4 194.0

51 43.3 37.4 56.2

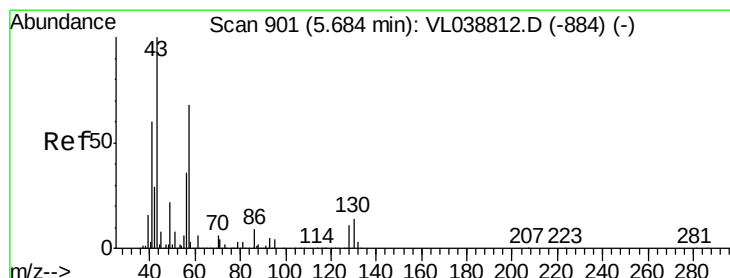
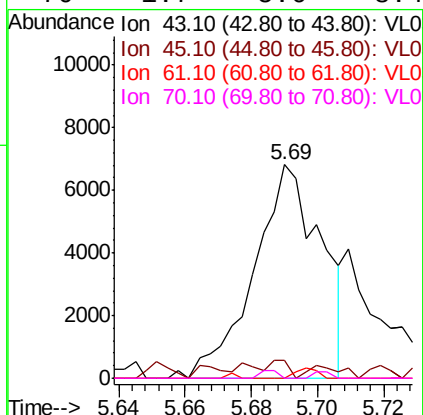
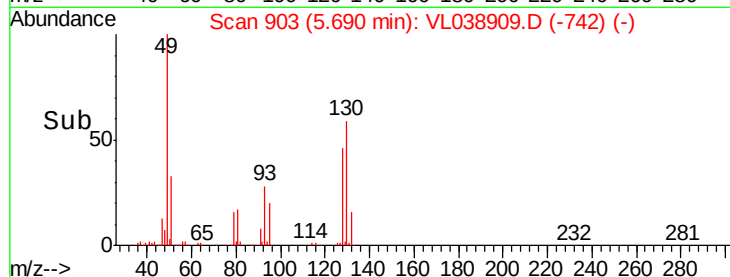
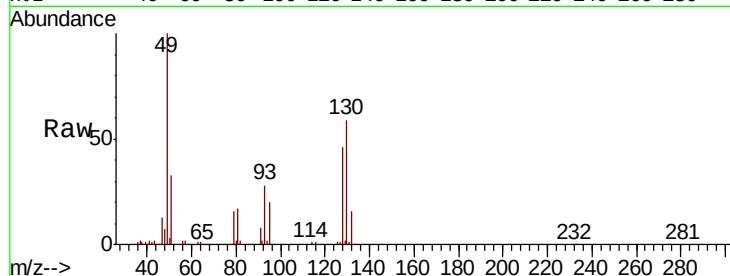
86 51.7 51.4 77.2





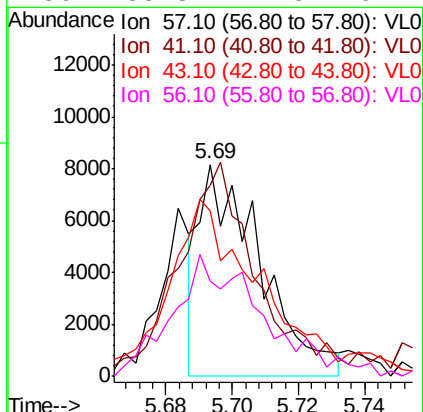
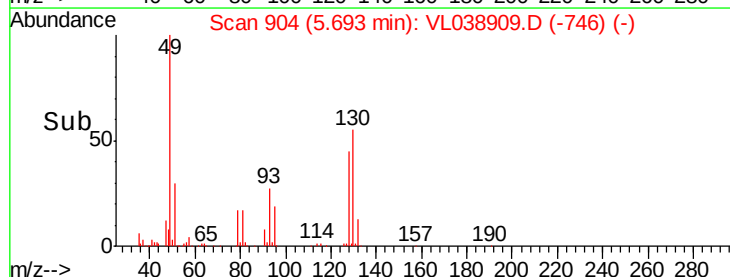
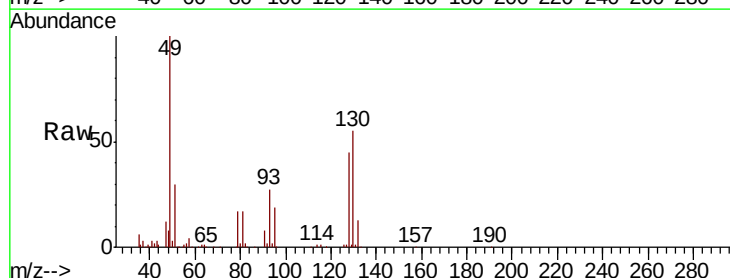
#25  
Ethyl Acetate  
Concen: 0.033 ppbv  
RT: 5.69  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 13 Apr 2022 18:54

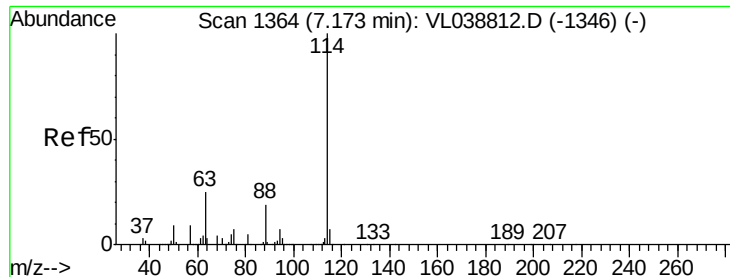
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 9573  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 9.5   | 8.4   | 12.6  |
| 61       | 0.3   | 7.9   | 11.9# |
| 70       | 1.7   | 5.6   | 8.4#  |



#26  
Hexane  
Concen: 0.078 ppbv  
RT: 5.69 min Scan# 904  
Delta R.T.: 0.01 min  
Lab File: VL038909.D  
Acq: 13 Apr 2022 18:54

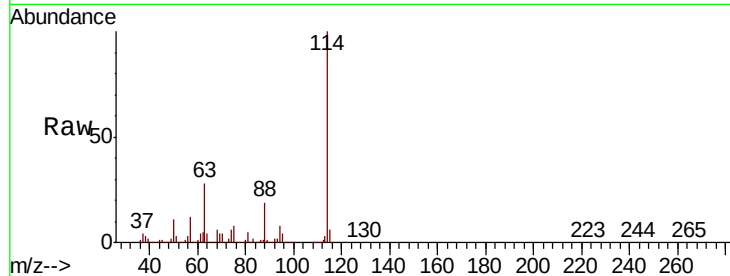
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 10392  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 129.8 | 72.0  | 108.0# |
| 43       | 134.1 | 186.6 | 280.0# |
| 56       | 85.8  | 42.8  | 64.2#  |



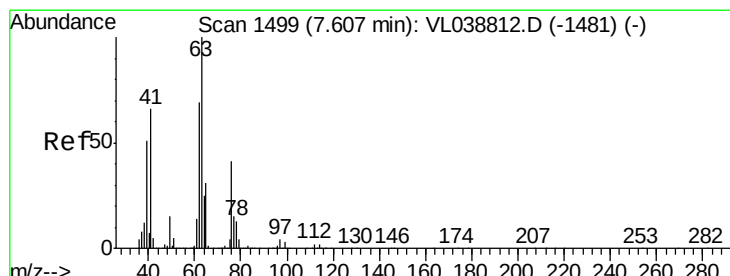
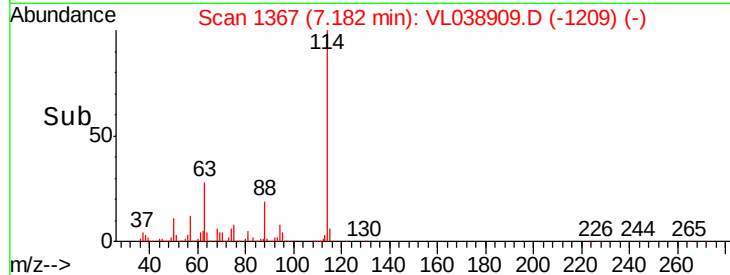
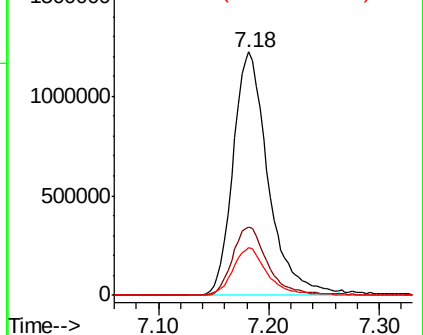


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 Acq: 13 Apr 2022 18:54

Tot Ion: 114 Resp: 2696266  
 Ion Ratio Lower Upper  
 114 100  
 63 28.9 19.8 29.8  
 88 19.3 14.2 21.4

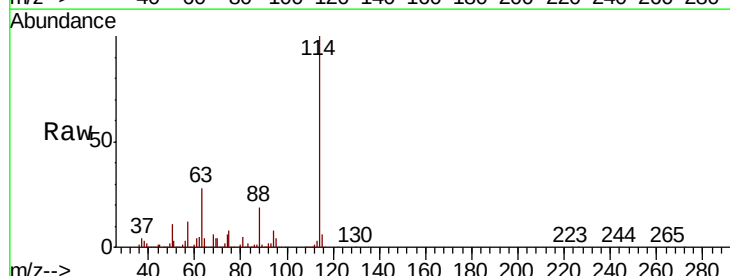


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

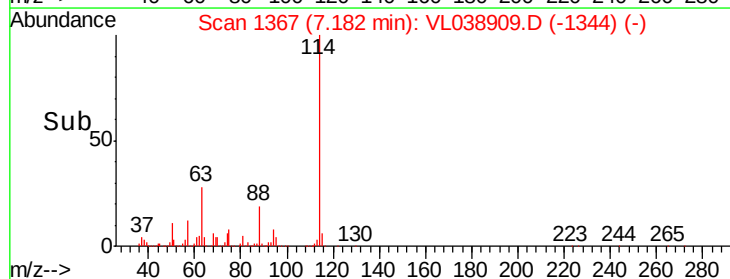
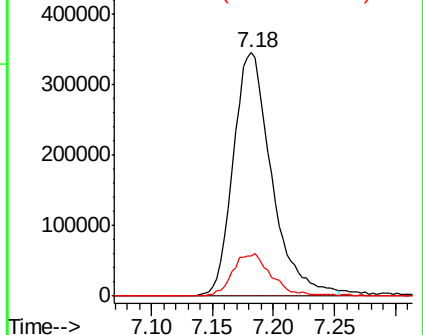


#39  
 1,2-Dichloropropane  
 Concen: 8.053 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T.: -0.42 min  
 Lab File: VL038909.D  
 Acq: 13 Apr 2022 18:54

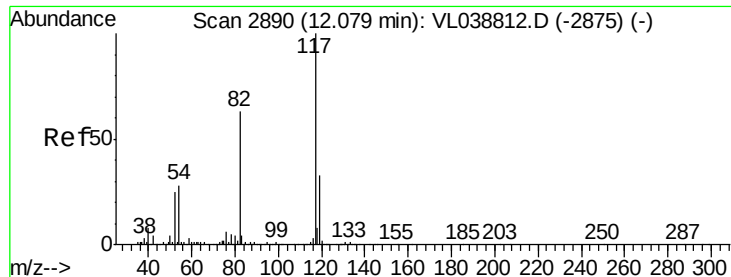
Tgt Ion: 63 Resp: 755482  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 53.0 79.6#  
 62 16.5 55.0 82.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 62.10 (61.80 to 62.80): VL0



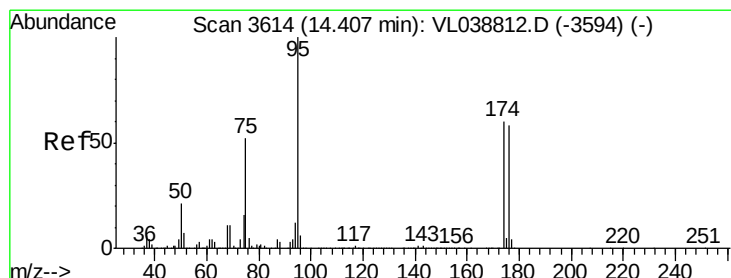
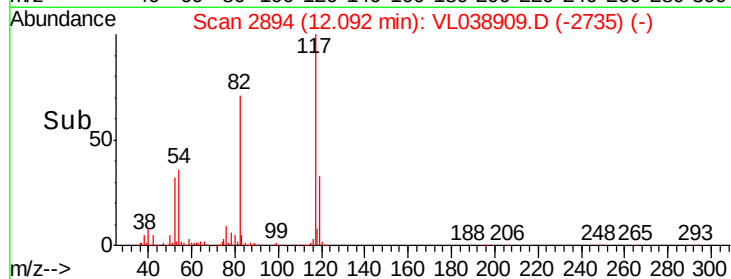
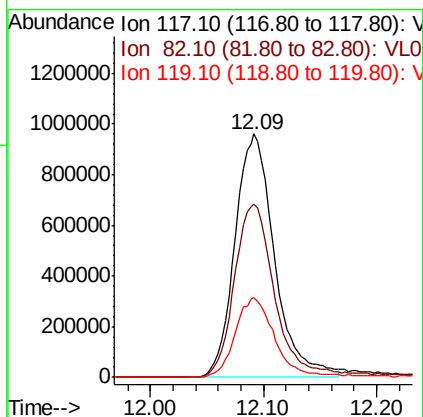
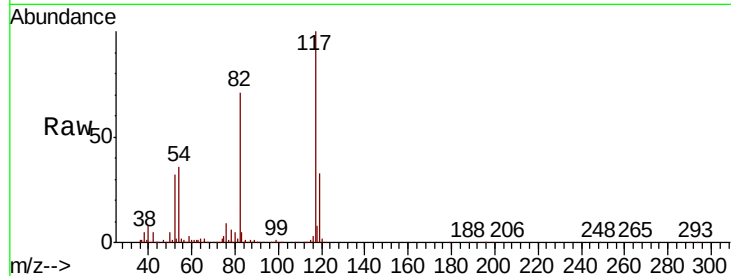




#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.09 min  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 Acq: 13 Apr 2022 18:54

Tot Ion: 117 Resp: 2338475

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 74.9  | 53.0  | 79.6  |
| 119 | 34.1  | 24.9  | 37.3  |



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.818 ppbv  
 RT: 14.42 min Scan# 3618  
 Delta R.T.: 0.01 min  
 Lab File: VL038909.D  
 Acq: 13 Apr 2022 18:54

Tgt Ion: 95 Resp: 1918819

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 63.6  | 52.0  | 78.0  |
| 175 | 4.5   | 4.0   | 6.0   |

