

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030322\  
 Data File : VL038530.D  
 Acq On : 4 Mar 2022 1:41  
 Operator : SY/AP  
 Sample : CAN 10606  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 CAN 10606

Quant Time: Mar 04 04:35:28 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022222AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Feb 22 19:45:51 2022  
 QLast Update : Tue Feb 22 19:45:51 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 806834   | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 1795941  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.04 | 117  | 1635016  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.37  | 95    | 1310085  | 9.68     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.80% |

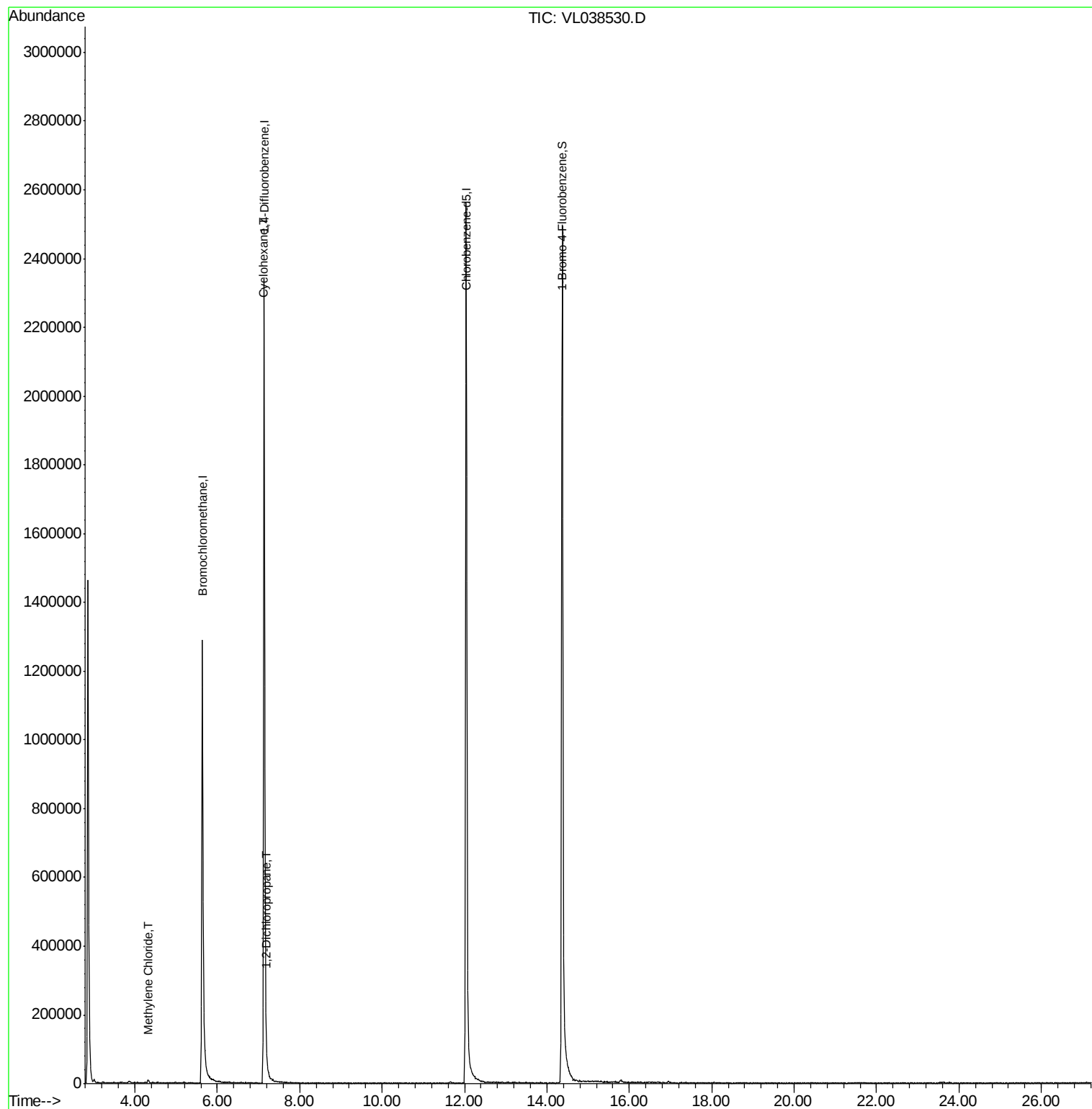
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 20) Methylene Chloride  | 4.32 | 84   | 1807     | 0.053 | ppbv # | 79     |
| 30) Cyclohexane         | 7.12 | 84   | 3402     | 0.050 | ppbv # | 1      |
| 39) 1,2-Dichloropropane | 7.19 | 63   | 8612     | 0.137 | ppbv # | 25     |

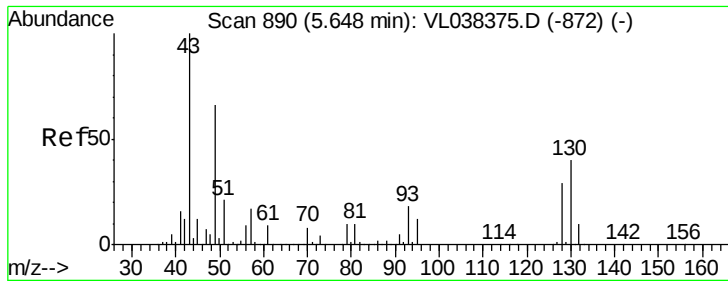
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 22 19:45:51 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: CAN 10606

Acq: 4 Mar 2022 1:41

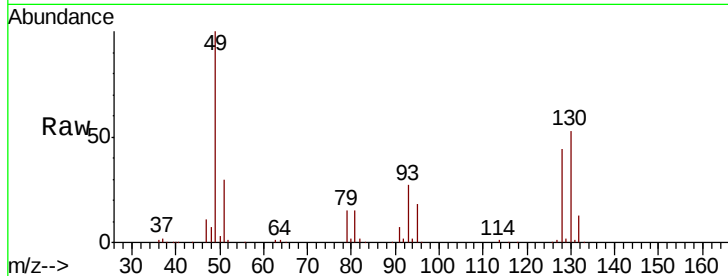
Tot Ion: 49 Resp: 806834

Ion Ratio Lower Upper

49 100

128 45.5 24.3 72.9

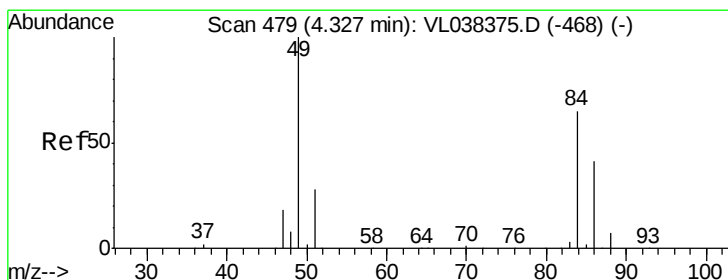
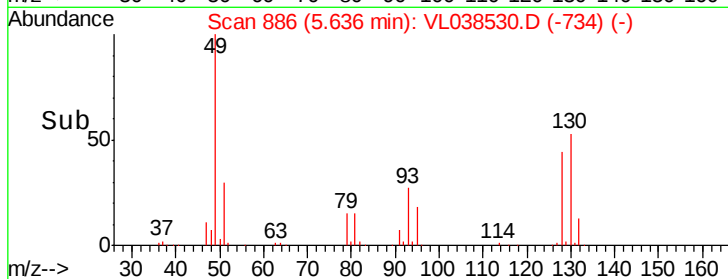
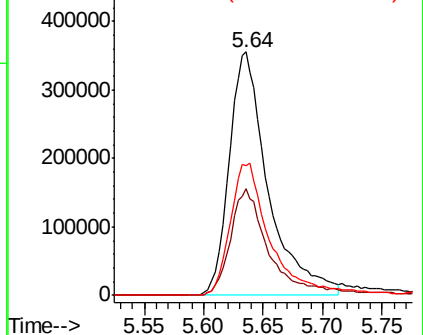
130 57.3 30.1 90.5



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



#20

Methylene Chloride

Concen: 0.053 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL038530.D

Acq: 4 Mar 2022 1:41

Tgt Ion: 84 Resp: 1807

Ion Ratio Lower Upper

84 100

49 117.8 122.4 183.6#

51 31.4 33.3 49.9#

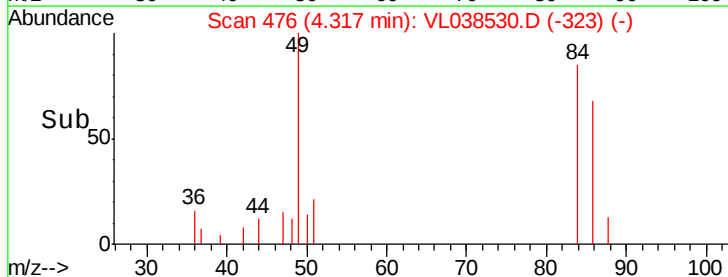
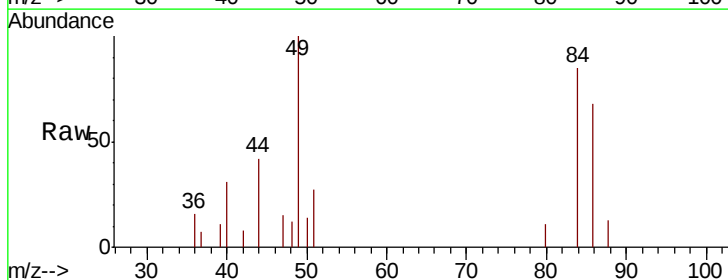
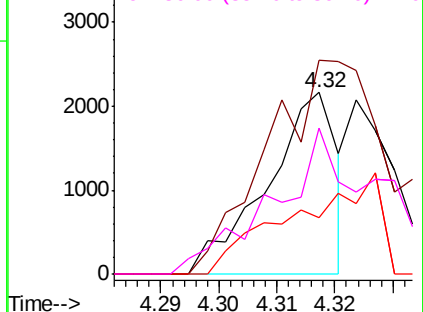
86 71.6 50.7 76.1

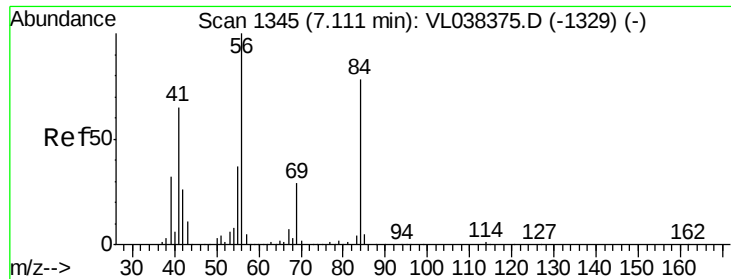
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

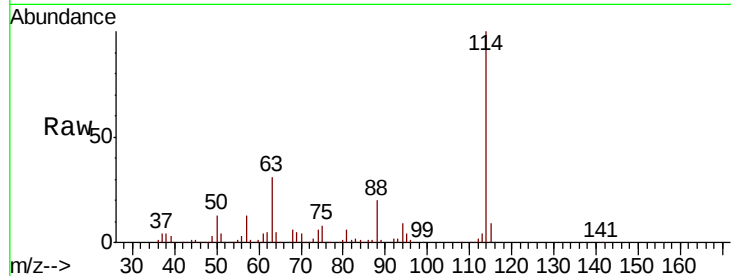
Ion 86.00 (85.70 to 86.70): VL0



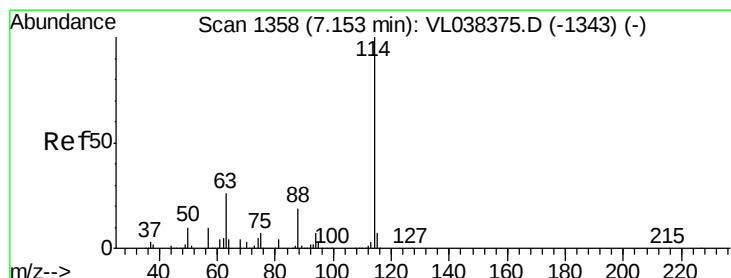
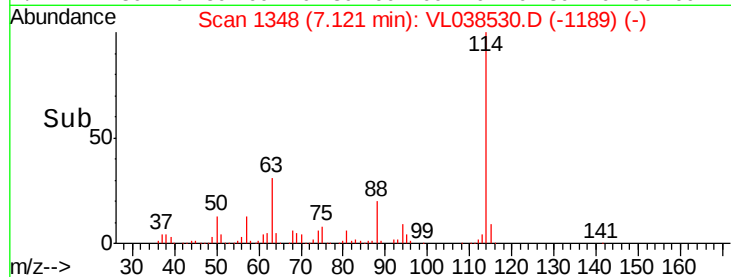
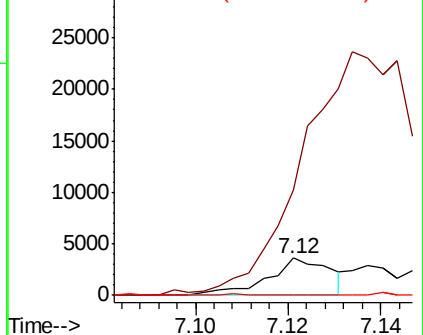


#30  
Cyclohexane  
Concen: 0.050 ppbv  
RT: 7.12  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 4 Mar 2022 1:41

Tot Ion: 84 Resp: 3402  
Ion Ratio Lower Upper  
84 100  
56 0.0 116.2 174.4#  
41 1.0 74.3 111.5#

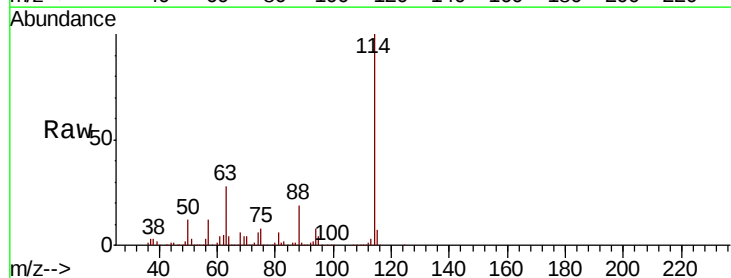


Abundance Ion 84.20 (83.90 to 84.90): VL0  
Ion 56.10 (55.80 to 56.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0

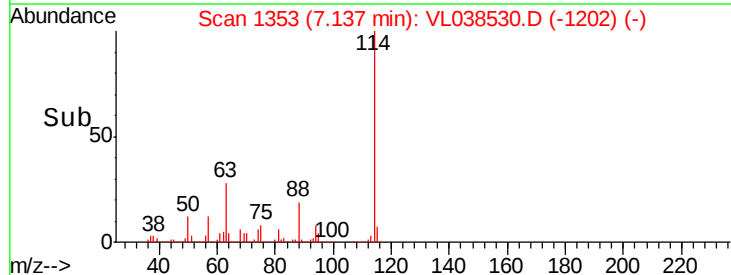
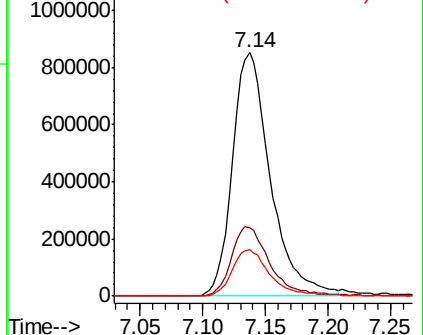


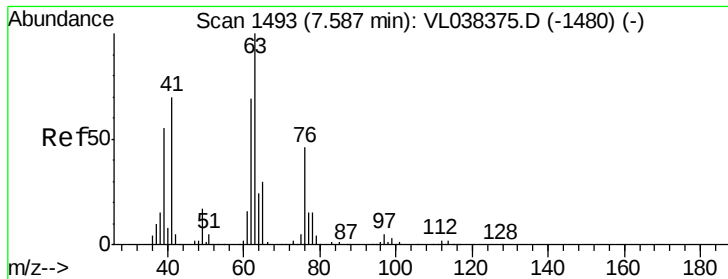
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.14 min Scan# 1353  
Delta R.T. -0.02 min  
Lab File: VL038530.D  
Acq: 4 Mar 2022 1:41

Tgt Ion: 114 Resp: 1795941  
Ion Ratio Lower Upper  
114 100  
63 29.2 22.2 33.2  
88 19.4 15.2 22.8



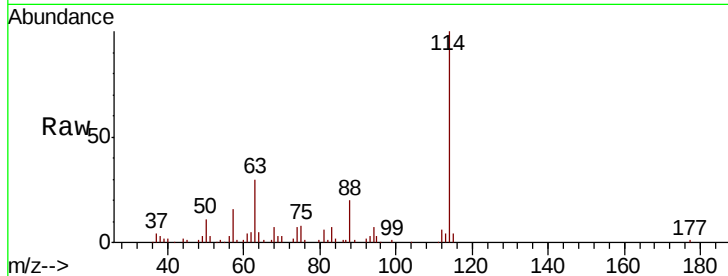
Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0



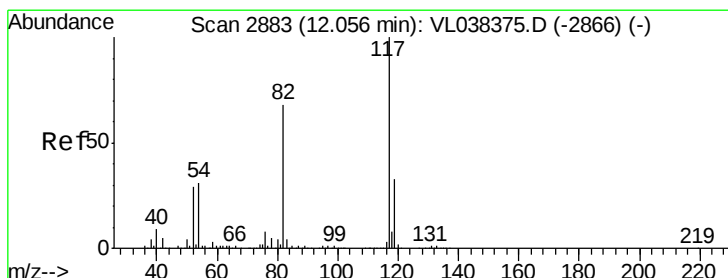
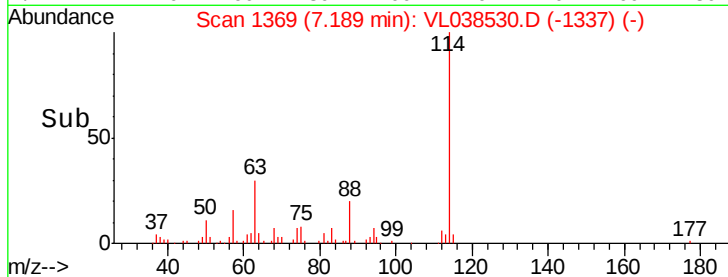
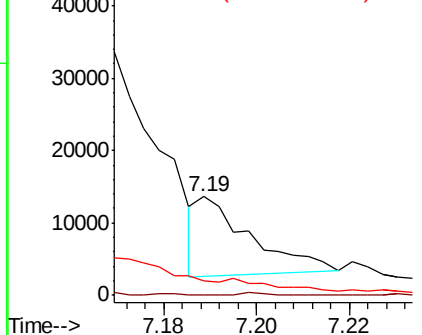


#39  
 1,2-Dichloropropane  
 Concen: 0.137 ppbv  
 RT: 7.19  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 4 Mar 2022 1:41

Tot Ion: 63 Resp: 8612  
 Ion Ratio Lower Upper  
 63 100  
 41 2.2 56.1 84.1#  
 62 14.5 55.5 83.3#

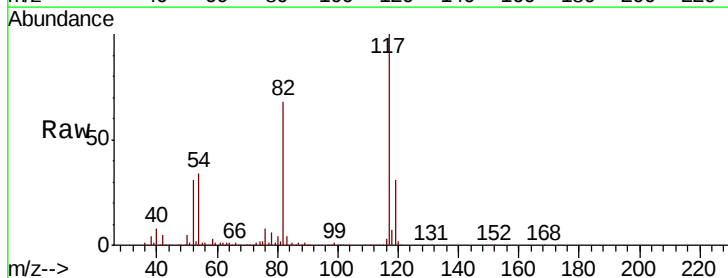


Abundance Ion 63.10 (62.80 to 63.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 62.10 (61.80 to 62.80): VL0

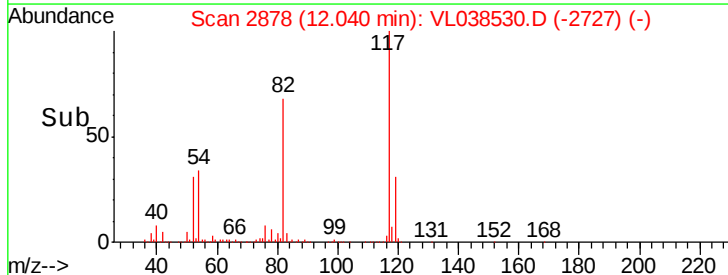
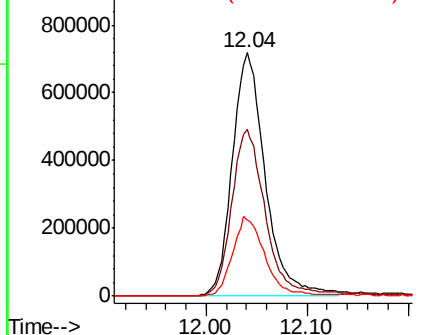


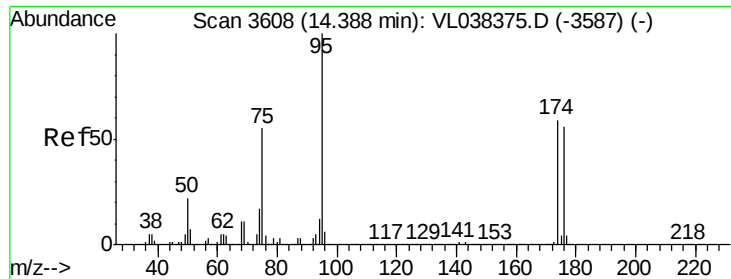
#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.04 min Scan# 2878  
 Delta R.T. -0.02 min  
 Lab File: VL038530.D  
 Acq: 4 Mar 2022 1:41

Tgt Ion: 117 Resp: 1635016  
 Ion Ratio Lower Upper  
 117 100  
 82 71.3 54.9 82.3  
 119 32.8 46.1 69.1#



Abundance Ion 117.10 (116.80 to 117.80): V  
 Ion 82.10 (81.80 to 82.80): VL0  
 Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.684 ppbv

RT: 14.37

Delta R.T: MSVOA\_L

Lab File: ClientSampleId :

Acq: 4 Mar 2022 1.41

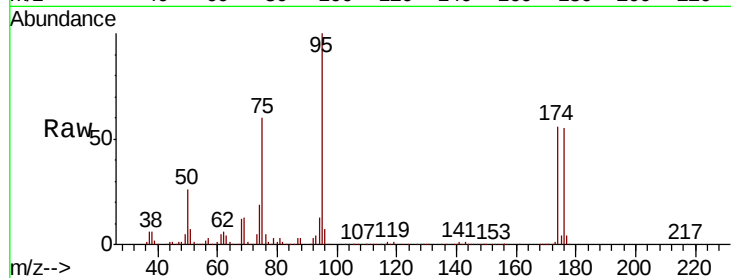
Tot Ion: 95 Resp: 1310085

Ion Ratio Lower Upper

95 100

174 59.6 49.0 73.4

175 4.3 3.6 5.4



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

