

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\  
 Data File : VL035461.D  
 Acq On : 19 Aug 2020 9:01  
 Operator : SY/AP  
 Sample : VIBLK  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Aug 20 02:46:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 17 19:28:30 2020  
 QLast Update : Mon Aug 17 19:28:30 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1143116  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 5256577  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 5197866  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 3786450  | 10.41    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.10% |

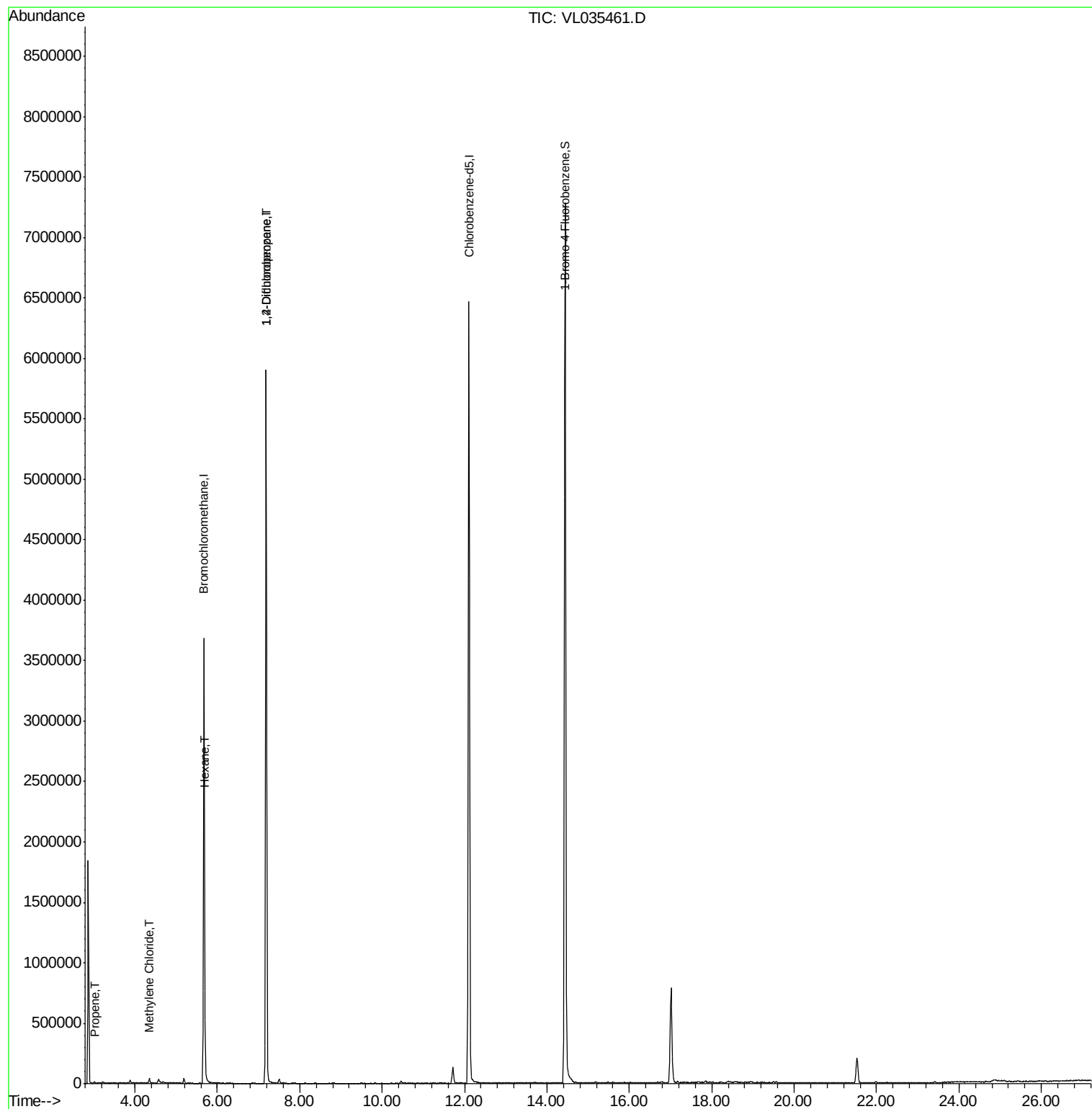
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 9) Propene              | 3.01 | 41   | 2181     | 0.038 | ppbv # | 15     |
| 20) Methylene Chloride  | 4.35 | 84   | 18473    | 0.174 | ppbv # | 64     |
| 26) Hexane              | 5.70 | 57   | 5093     | 0.035 | ppbv # | 42     |
| 39) 1,2-Dichloropropane | 7.19 | 63   | 914529   | 7.192 | ppbv # | 23     |

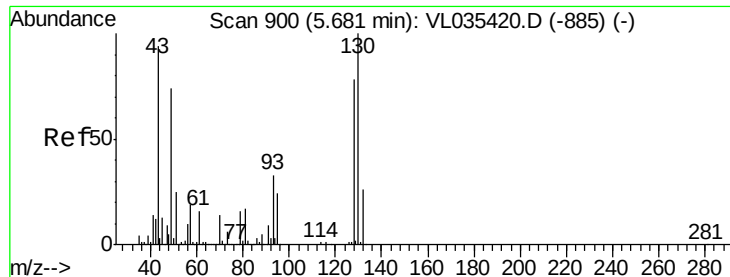
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M  
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QLast Update : Mon Aug 17 19:28:30 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL035461.D

Acq: 19 Aug 2020 9:01

Instrument :

MSVOA\_L

ClientSampleId :

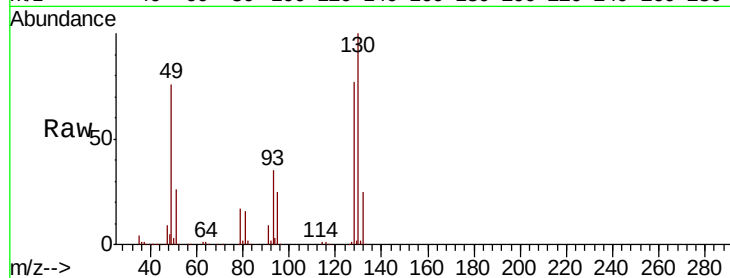
Tot Ion: 49 Resp: 1143116

Ion Ratio Lower Upper

49 100

128 104.1 20.9 62.7#

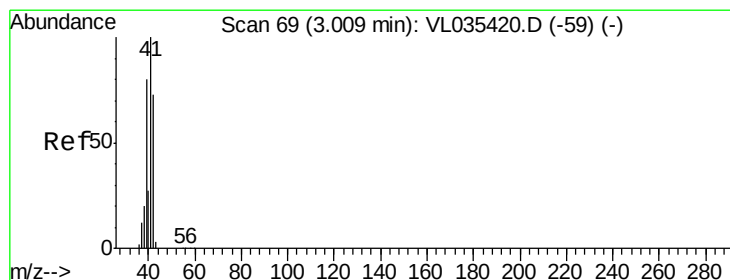
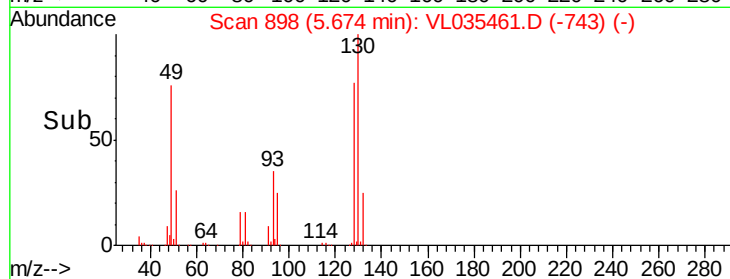
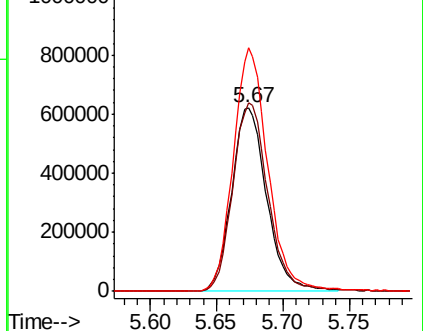
130 132.0 26.7 80.1#



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



#9

Propene

Concen: 0.038 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035461.D

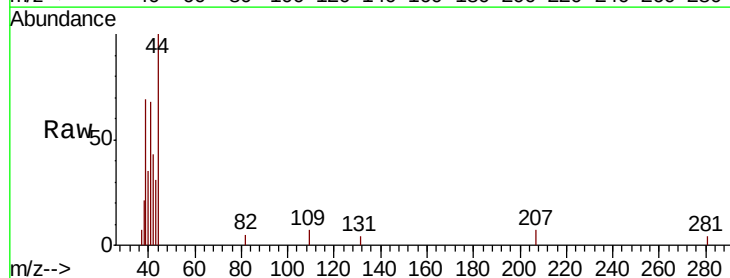
Acq: 19 Aug 2020 9:01

Tgt Ion: 41 Resp: 2181

Ion Ratio Lower Upper

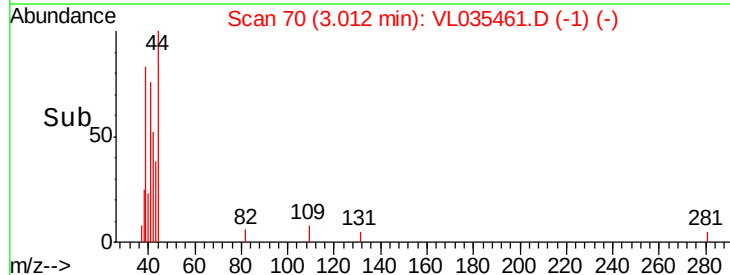
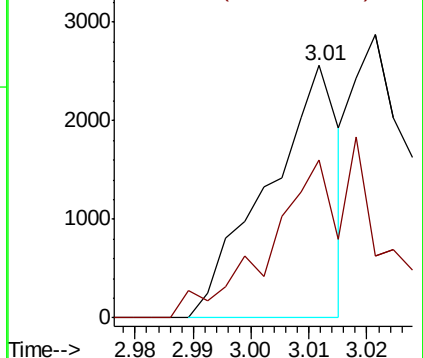
41 100

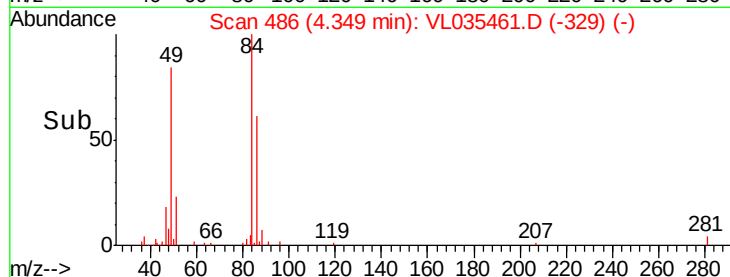
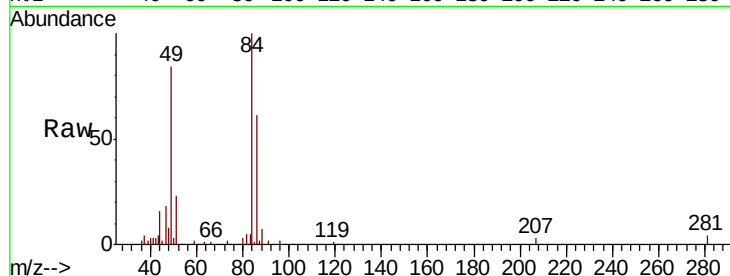
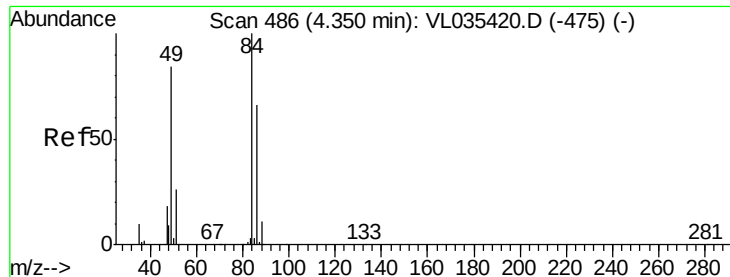
42 0.0 55.5 83.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

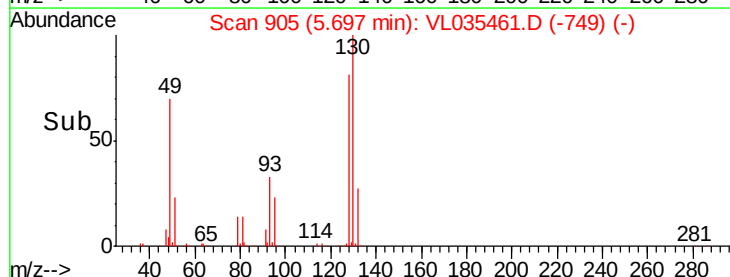
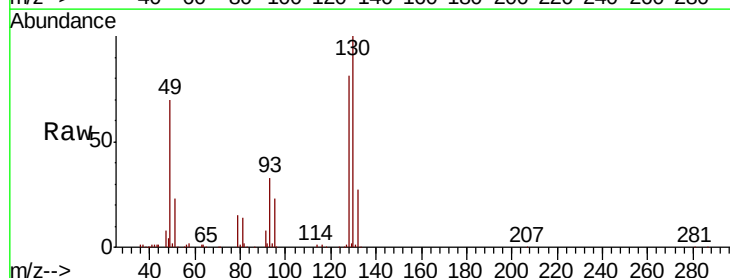
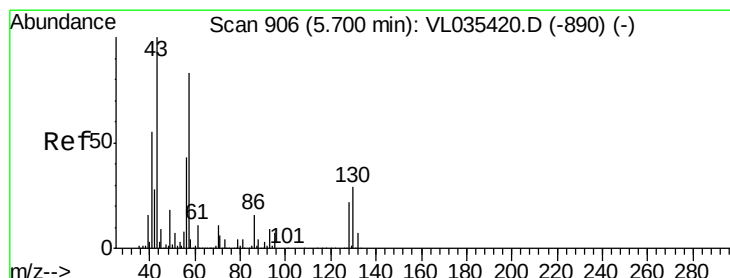
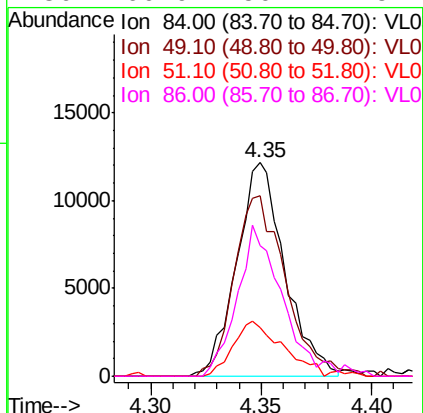




#20  
Methylene Chloride  
Concen: 0.174 ppbv  
RT: 4.35 min Scan# 486  
Delta R.T. 0.01 min  
Lab File: VL035461.D  
Acq: 19 Aug 2020 9:01

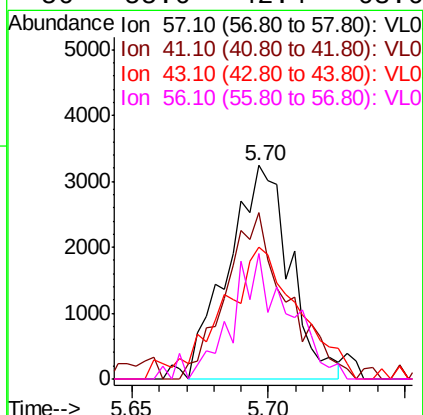
Instrument :  
MSVOA\_L  
ClientSampleId :

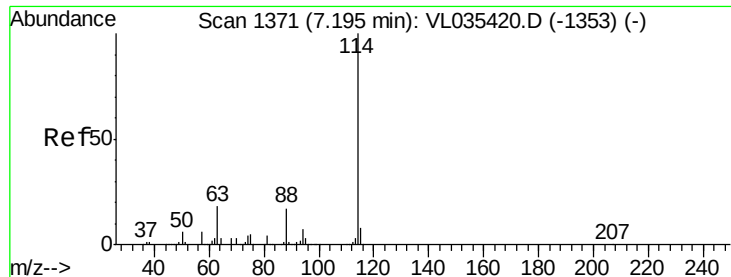
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 18473  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 84.3  | 118.6 | 177.8# |
| 51       | 22.6  | 36.4  | 54.6#  |
| 86       | 60.9  | 50.2  | 75.4   |



#26  
Hexane  
Concen: 0.035 ppbv  
RT: 5.70 min Scan# 905  
Delta R.T. 0.00 min  
Lab File: VL035461.D  
Acq: 19 Aug 2020 9:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 5093   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 84.9  | 75.5  | 113.3  |
| 43       | 77.7  | 181.7 | 272.5# |
| 56       | 55.6  | 42.4  | 63.6   |

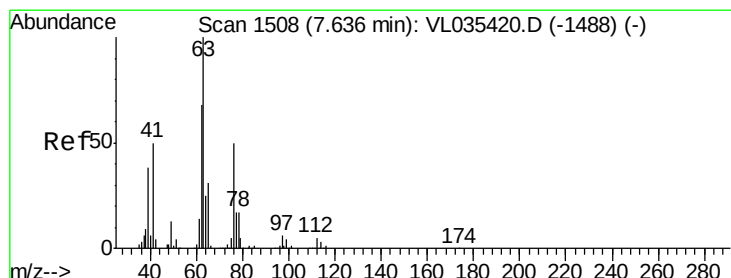
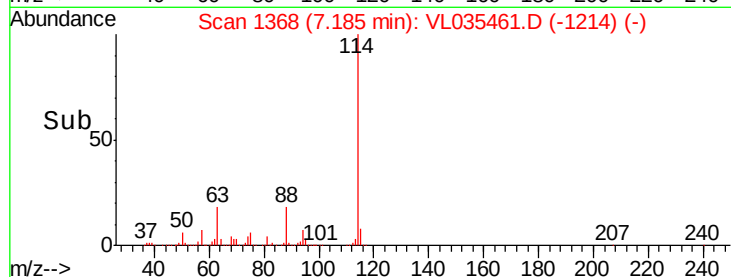
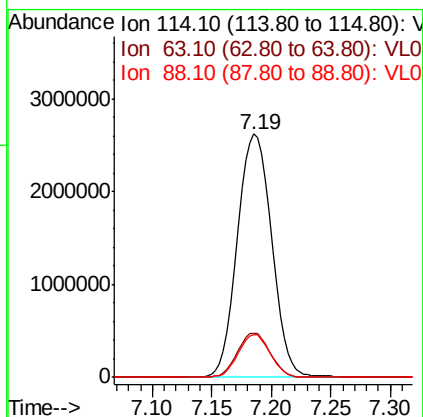
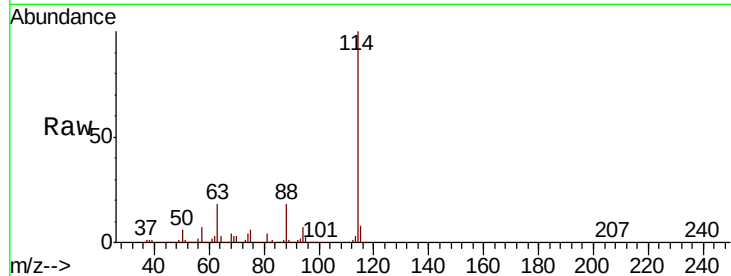




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19 min Scan# 1368  
 Delta R.T. -0.00 min  
 Lab File: VL035461.D  
 Acq: 19 Aug 2020 9:01

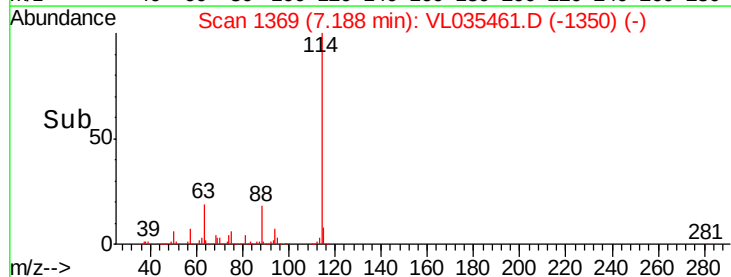
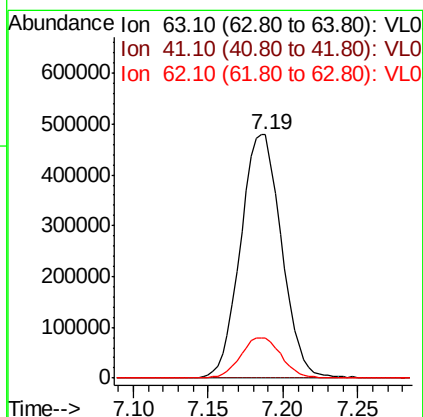
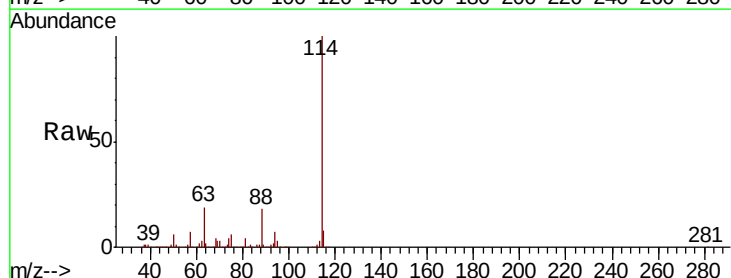
Instrument :  
 MSVOA\_L  
 ClientSampleId :

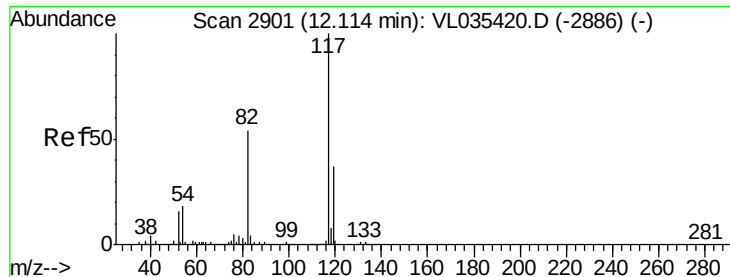
Tot Ion:114 Resp: 5256577  
 Ion Ratio Lower Upper  
 114 100  
 63 17.5 23.1 34.7#  
 88 16.5 15.9 23.9



#39  
 1,2-Dichloropropane  
 Concen: 7.192 ppbv  
 RT: 7.19 min Scan# 1369  
 Delta R.T. -0.44 min  
 Lab File: VL035461.D  
 Acq: 19 Aug 2020 9:01

Tgt Ion: 63 Resp: 914529  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 61.1 91.7#  
 62 16.3 55.3 82.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035461.D

Acq: 19 Aug 2020 9:01

Instrument :

MSVOA\_L

ClientSampled :

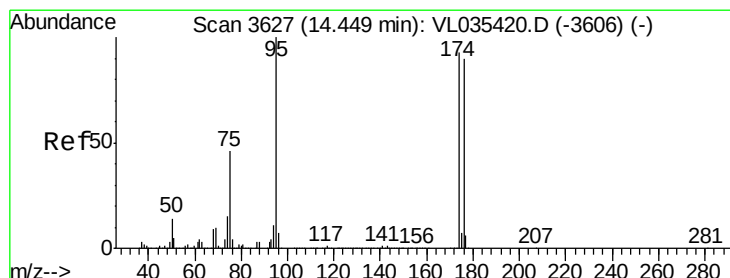
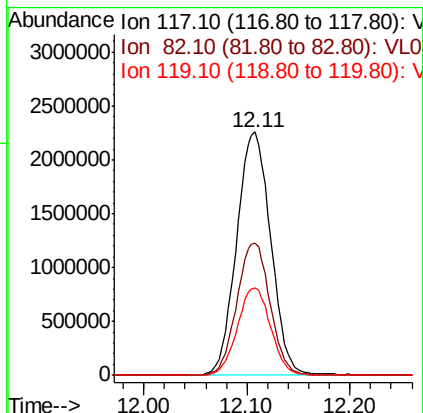
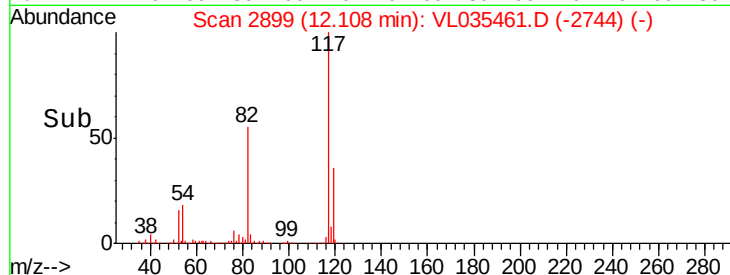
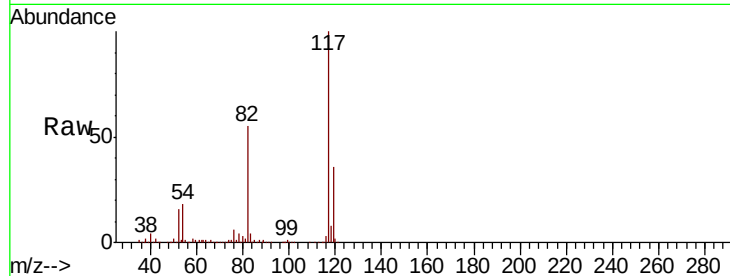
Tot Ion:117 Resp: 5197866

Ion Ratio Lower Upper

117 100

82 53.3 57.4 86.0#

119 35.2 28.4 42.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.405 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL035461.D

Acq: 19 Aug 2020 9:01

Tgt Ion: 95 Resp: 3786450

Ion Ratio Lower Upper

95 100

174 88.6 44.0 66.0#

175 6.6 3.2 4.8#

