

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\  
 Data File : VL035859.D  
 Acq On : 5 Nov 2020 13:18  
 Operator : SY/AP  
 Sample : VL1105ABL01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1105ABL01

Quant Time: Nov 06 00:26:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 949790   | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3481169  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3223937  | 10.00 | ppbv  | -0.04    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2297422  | 10.03    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.30% |

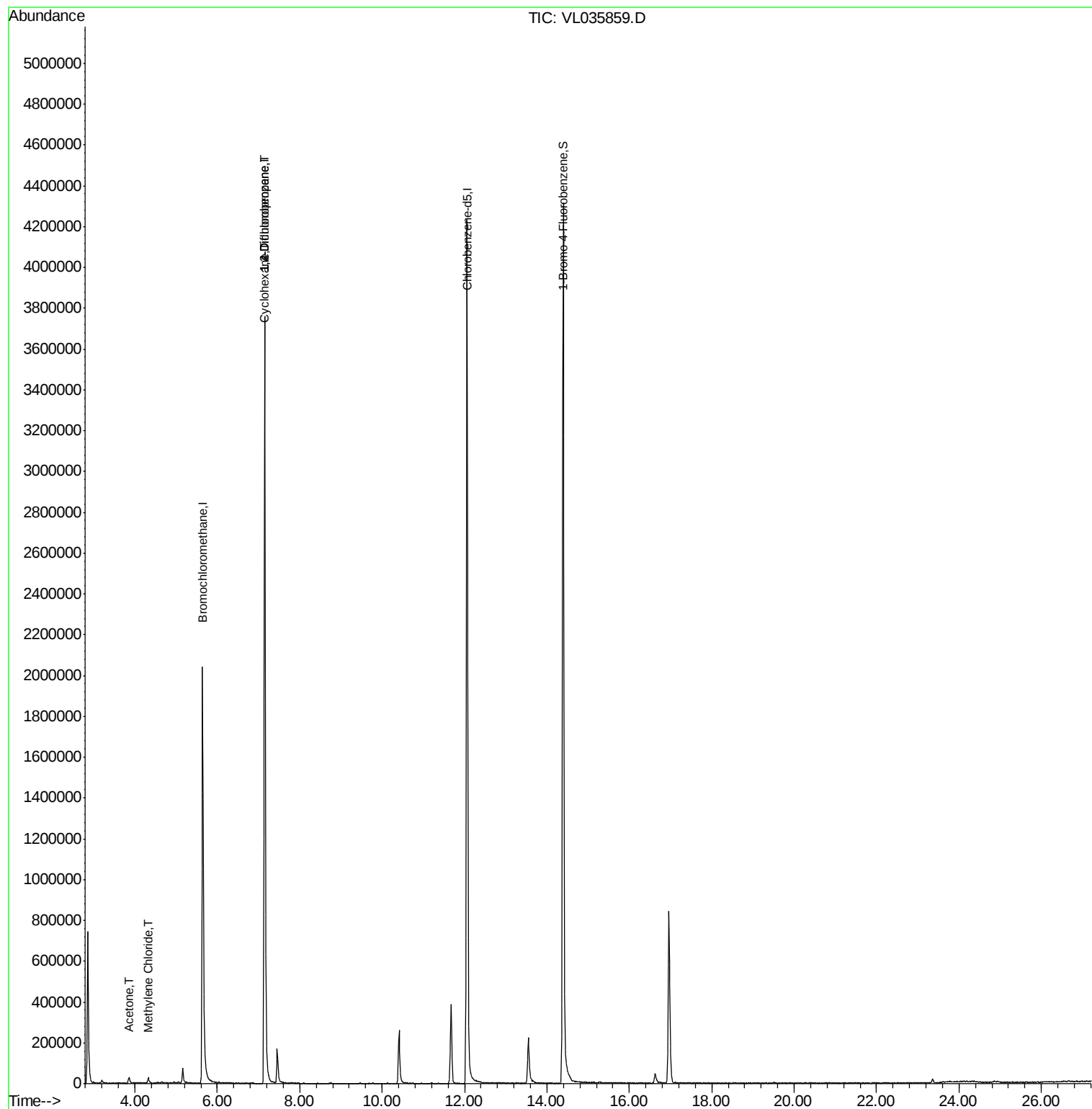
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 15) Acetone             | 3.85 | 43   | 23578    | 0.232 | ppbv # | 1      |
| 20) Methylene Chloride  | 4.32 | 84   | 11634    | 0.163 | ppbv # | 92     |
| 30) Cyclohexane         | 7.13 | 84   | 6144     | 0.051 | ppbv # | 6      |
| 39) 1,2-Dichloropropane | 7.15 | 63   | 695096   | 7.978 | ppbv # | 30     |

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL035859.D

Acq: 5 Nov 2020 13:18

Instrument :

MSVOA\_L

ClientSampleId :

VL1105ABL01

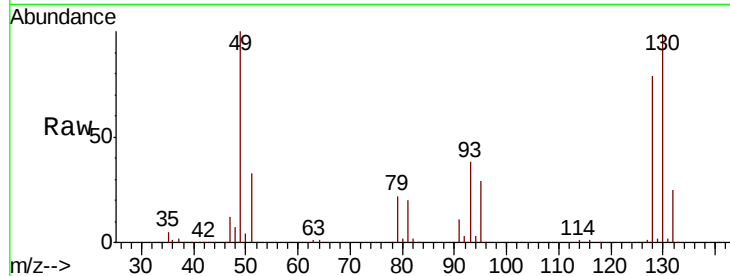
Tot Ion: 49 Resp: 949790

Ion Ratio Lower Upper

49 100

128 79.2 41.5 124.6

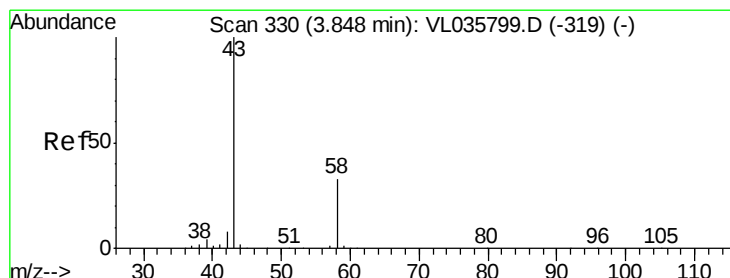
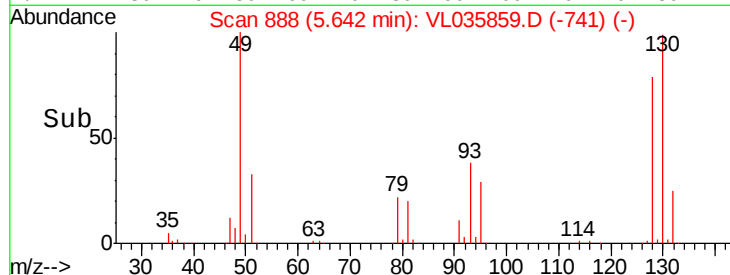
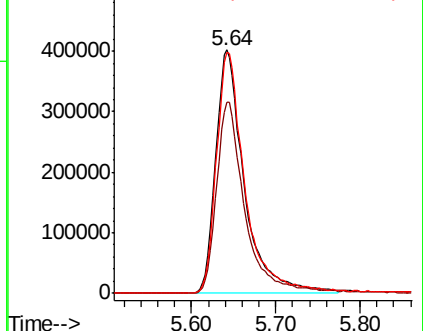
130 100.1 53.7 161.1



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



#15

Acetone

Concen: 0.232 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL035859.D

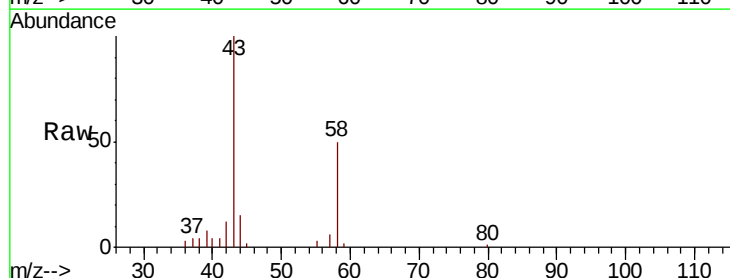
Acq: 5 Nov 2020 13:18

Tgt Ion: 43 Resp: 23578

Ion Ratio Lower Upper

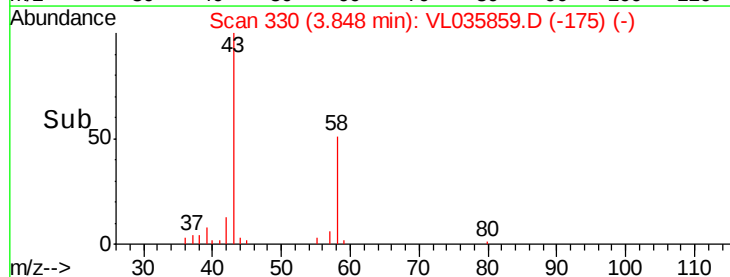
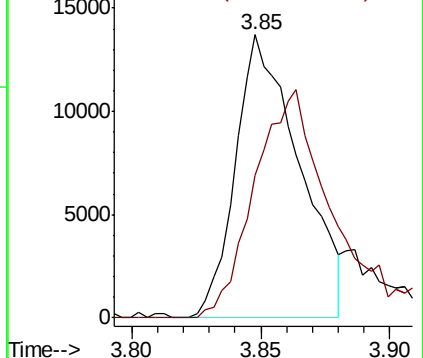
43 100

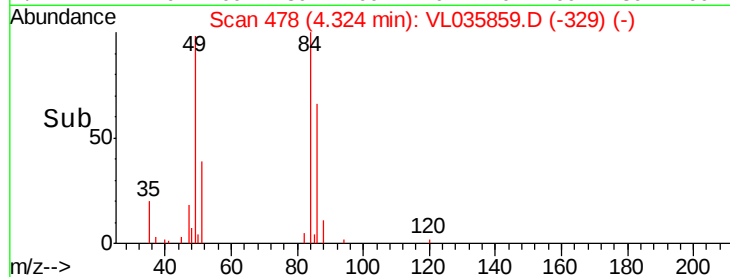
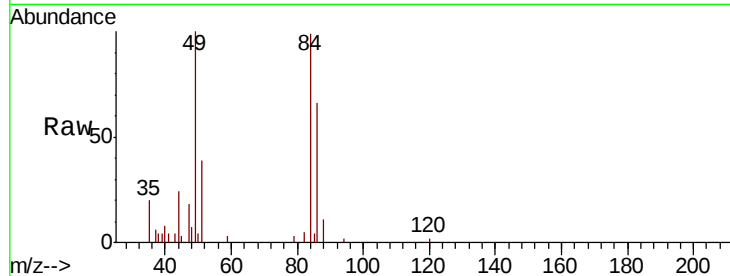
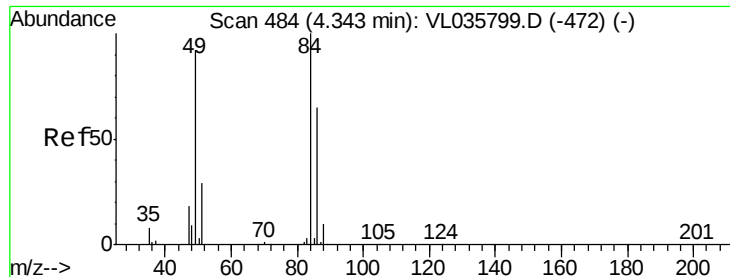
58 104.3 27.5 41.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

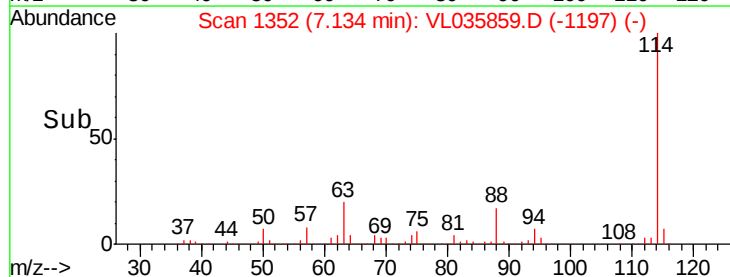
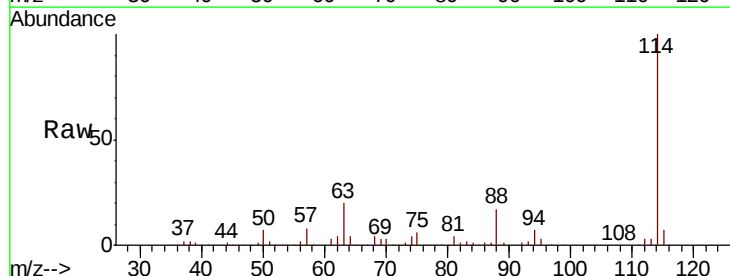
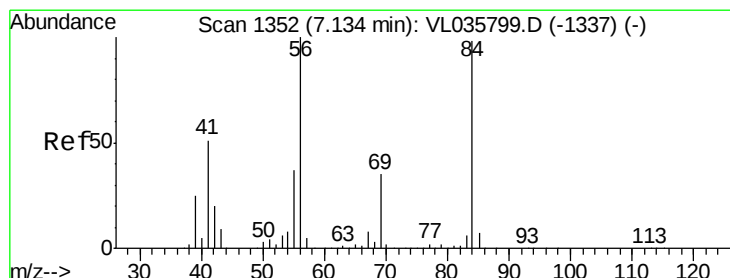
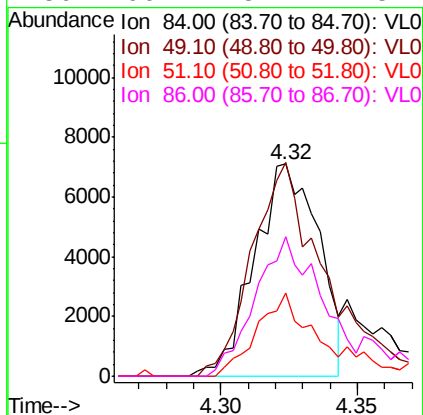




#20  
Methylene Chloride  
Concen: 0.163 ppbv  
RT: 4.32 min Scan# 478  
Delta R.T. -0.02 min  
Lab File: VL035859.D  
Acq: 5 Nov 2020 13:18

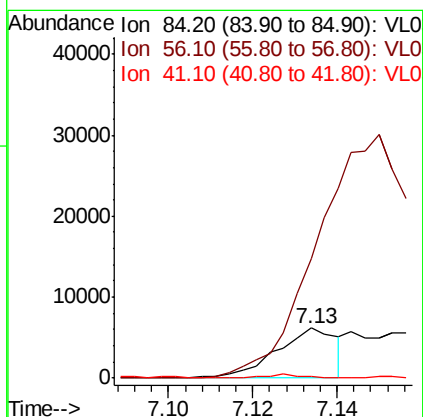
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1105ABL01

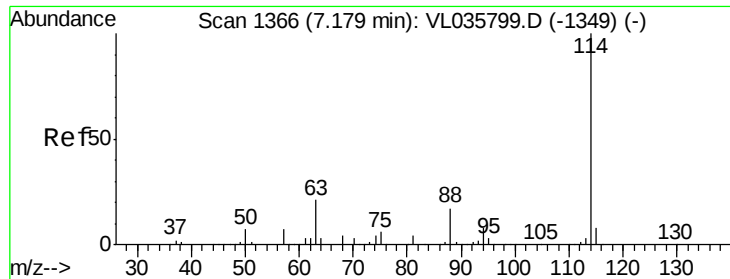
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 11634 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 100.8 | 73.8  | 110.8 |
| 51       | 39.1  | 23.0  | 34.4# |
| 86       | 66.1  | 52.1  | 78.1  |



#30  
Cyclohexane  
Concen: 0.051 ppbv  
RT: 7.13 min Scan# 1352  
Delta R.T. -0.00 min  
Lab File: VL035859.D  
Acq: 5 Nov 2020 13:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 6144   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 56       | 0.0   | 86.4  | 129.6# |
| 41       | 0.0   | 42.1  | 63.1#  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.03 min

Lab File: VL035859.D

Acq: 5 Nov 2020 13:18

Instrument :

MSVOA\_L

ClientSampleId :

VL1105ABL01

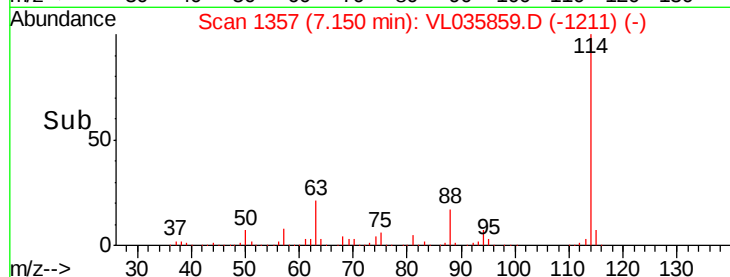
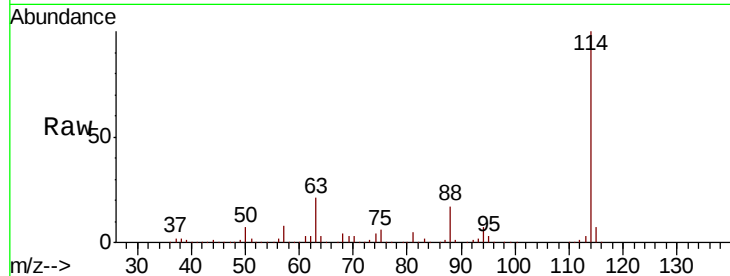
Tot Ion:114 Resp: 3481169

Ion Ratio Lower Upper

114 100

63 20.2 16.1 24.1

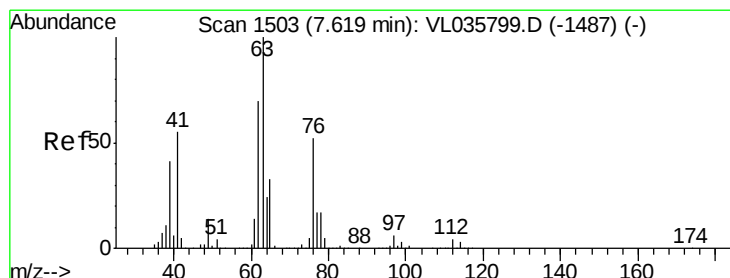
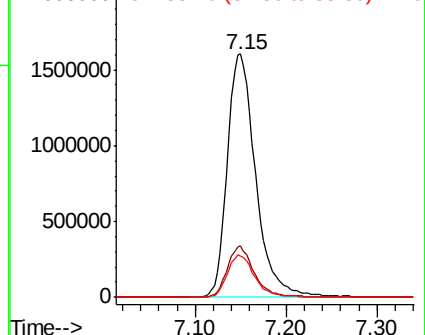
88 17.0 13.7 20.5



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: 7.978 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.47 min

Lab File: VL035859.D

Acq: 5 Nov 2020 13:18

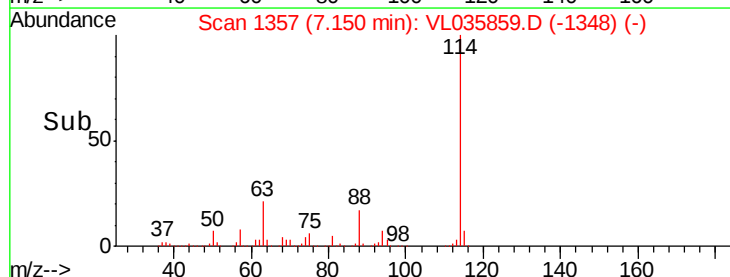
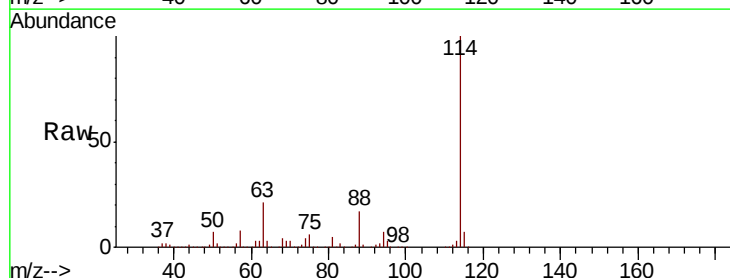
Tgt Ion: 63 Resp: 695096

Ion Ratio Lower Upper

63 100

41 0.0 43.8 65.6#

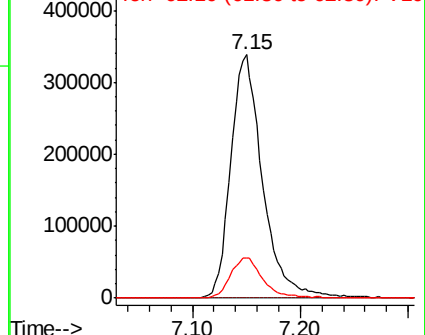
62 16.3 56.2 84.2#

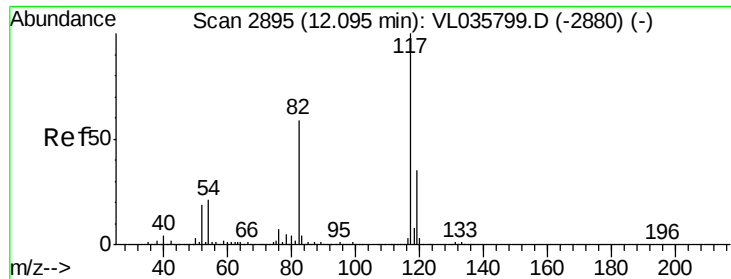


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

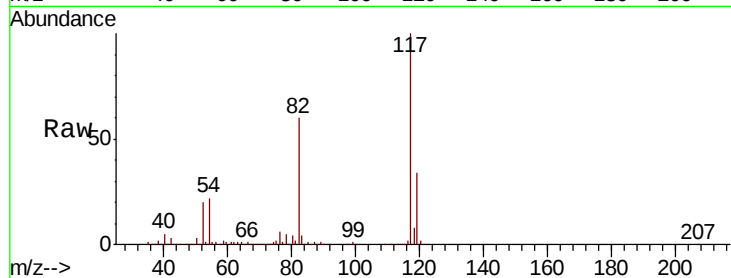




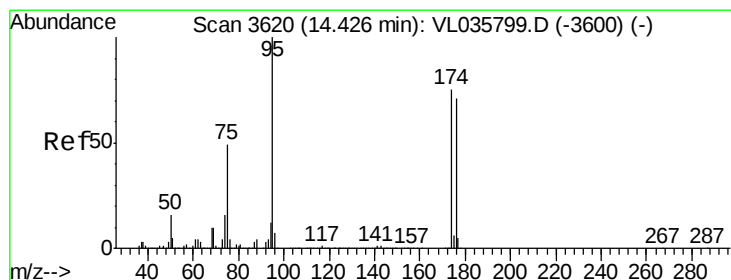
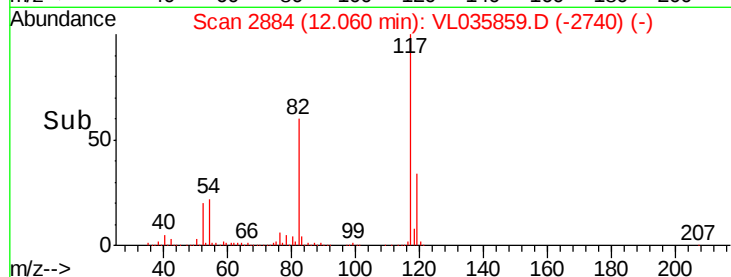
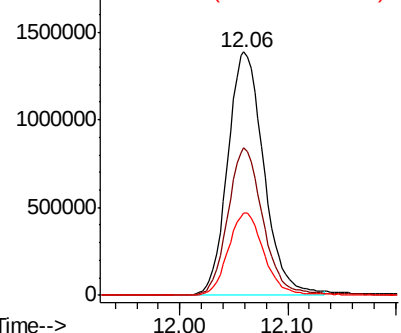
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2884  
Delta R.T. -0.04 min  
Lab File: VL035859.D  
Acq: 5 Nov 2020 13:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1105ABL01

Tot Ion:117 Resp: 3223937  
Ion Ratio Lower Upper  
117 100  
82 60.0 50.6 76.0  
119 34.0 52.6 78.8#

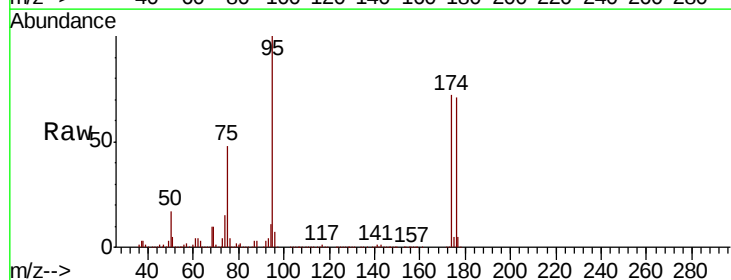


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.030 ppbv  
RT: 14.39 min Scan# 3610  
Delta R.T. -0.03 min  
Lab File: VL035859.D  
Acq: 5 Nov 2020 13:18

Tgt Ion: 95 Resp: 2297422  
Ion Ratio Lower Upper  
95 100  
174 75.2 59.8 89.6  
175 5.2 4.3 6.5



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

