

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111020\  
 Data File : VL035893.D  
 Acq On : 10 Nov 2020 17:12  
 Operator : SY/AP  
 Sample : VL1110ABL01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Nov 11 01:22:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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   | 5.65  | 49   | 1162470  | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4277187  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 4103348  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2964846  | 10.17    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.70% |

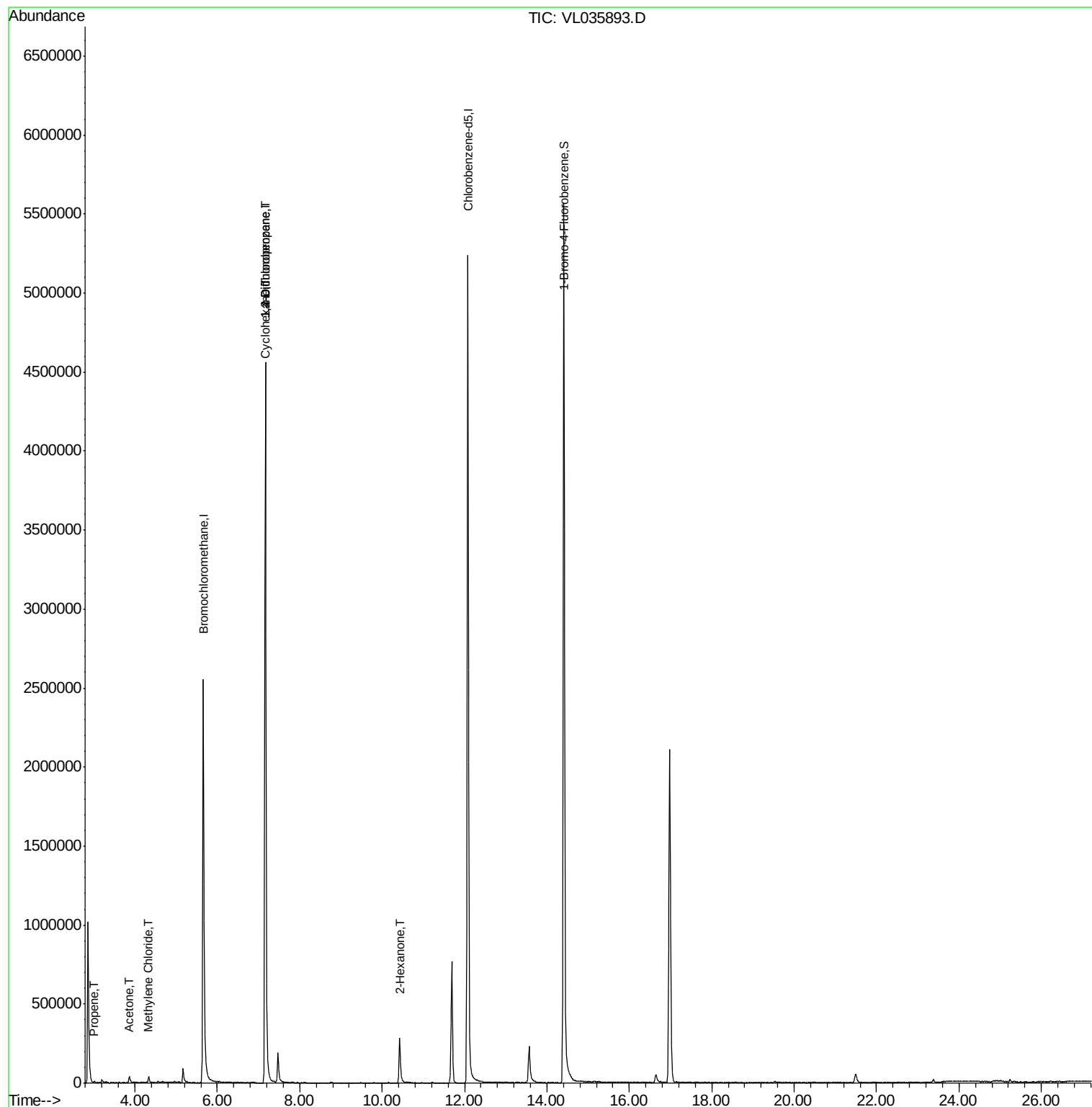
| Target Compounds        | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene              | 3.01  | 41   | 2997     | 0.059 | ppbv   | 93     |
| 15) Acetone             | 3.86  | 43   | 34829    | 0.280 | ppbv # | 1      |
| 20) Methylene Chloride  | 4.34  | 84   | 19431    | 0.222 | ppbv   | 94     |
| 30) Cyclohexane         | 7.15  | 84   | 6802     | 0.046 | ppbv # | 6      |
| 39) 1,2-Dichloropropane | 7.16  | 63   | 856896   | 8.004 | ppbv # | 30     |
| 51) 2-Hexanone          | 10.43 | 43   | 60710    | 0.356 | ppbv # | 45     |

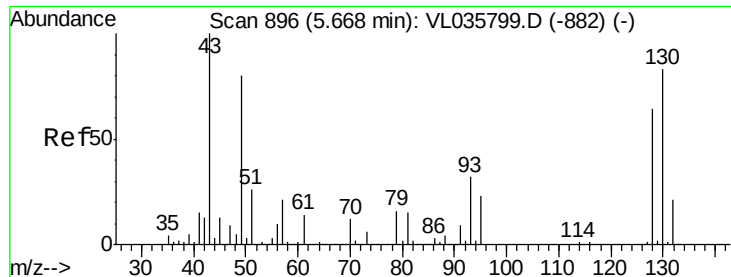
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Nov 11 01:22:28 2020  
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL035893.D

Acq: 10 Nov 2020 17:12

Instrument :

MSVOA\_L

ClientSampleId :

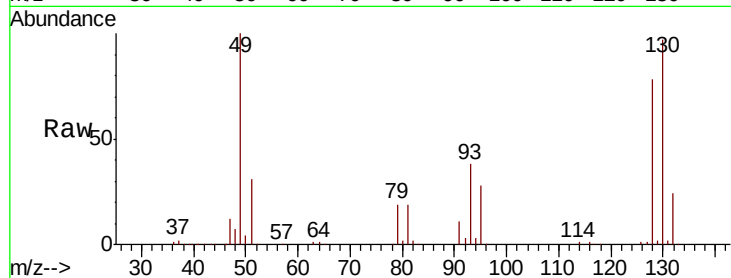
Tot Ion: 49 Resp: 1162470

Ion Ratio Lower Upper

49 100

128 81.0 41.5 124.6

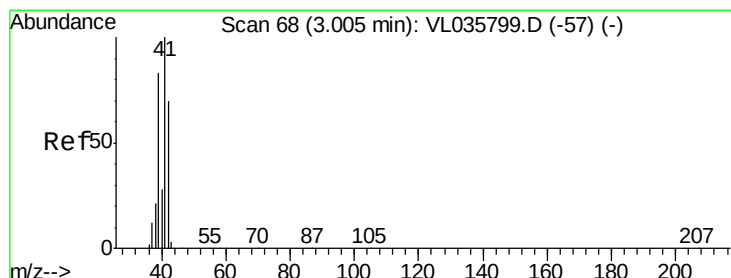
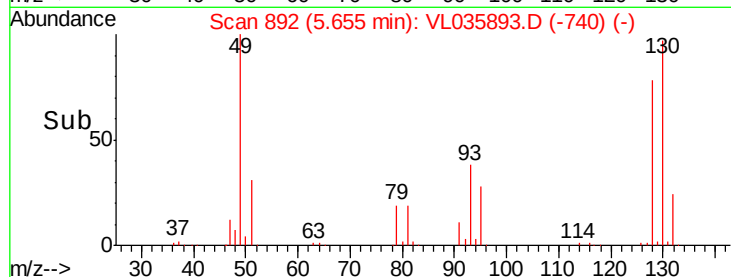
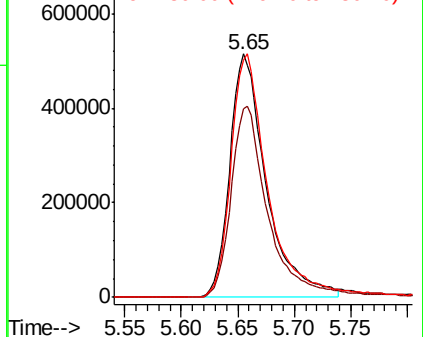
130 103.9 53.7 161.1



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



#9

Propene

Concen: 0.059 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035893.D

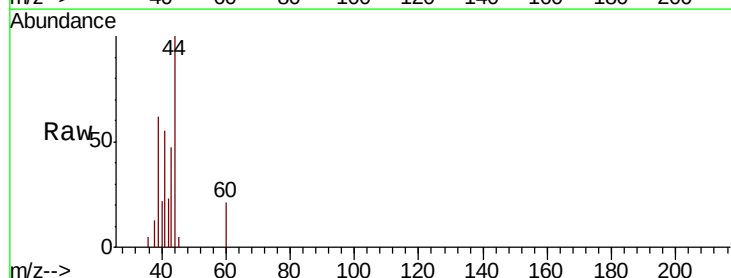
Acq: 10 Nov 2020 17:12

Tgt Ion: 41 Resp: 2997

Ion Ratio Lower Upper

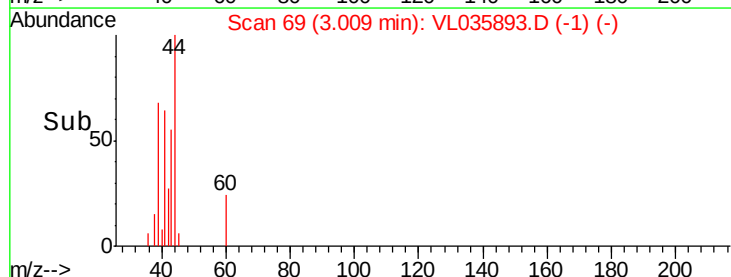
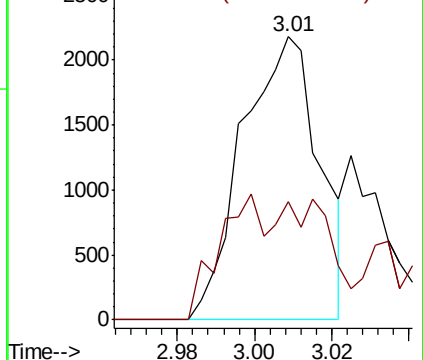
41 100

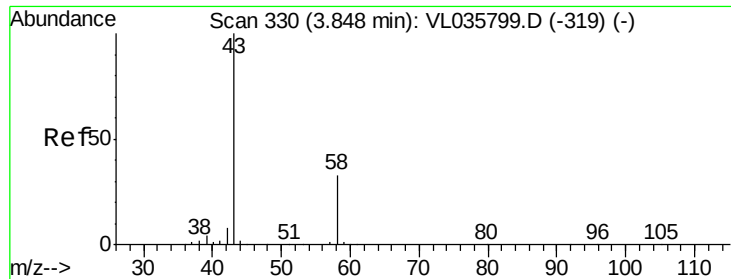
42 75.7 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 0.280 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035893.D

Acq: 10 Nov 2020 17:12

Instrument :

MSVOA\_L

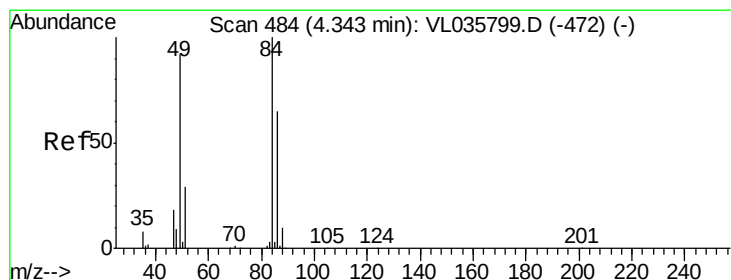
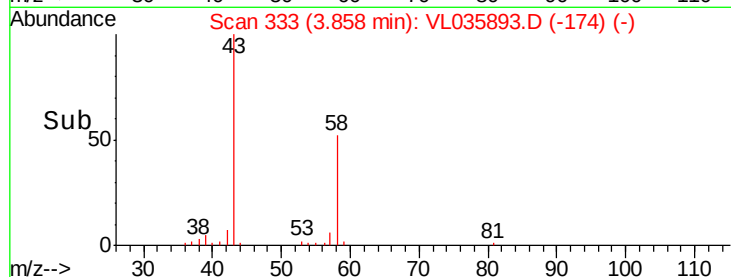
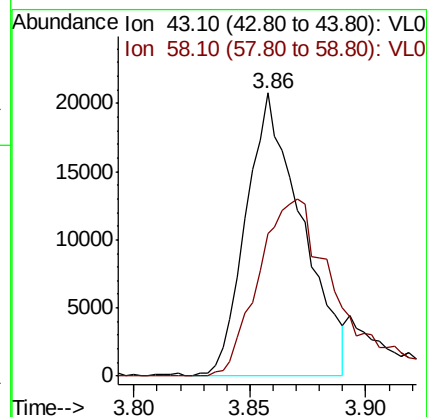
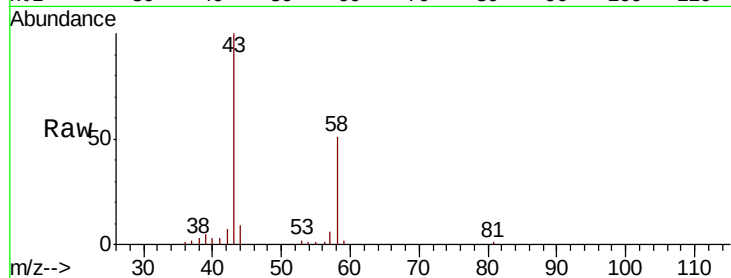
ClientSampled :

Tot Ion: 43 Resp: 34829

Ion Ratio Lower Upper

43 100

58 93.7 27.5 41.3#



#20

Methylene Chloride

Concen: 0.222 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL035893.D

Acq: 10 Nov 2020 17:12

Tgt Ion: 84 Resp: 19431

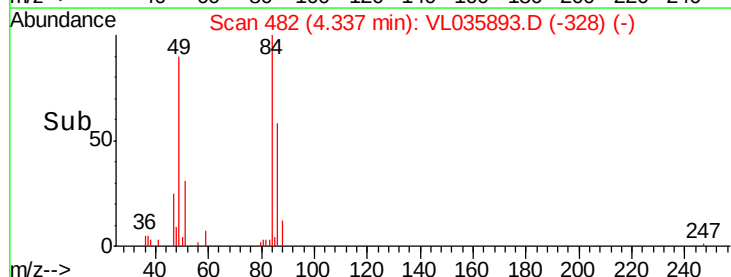
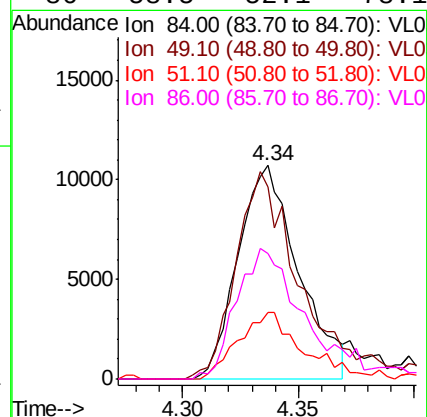
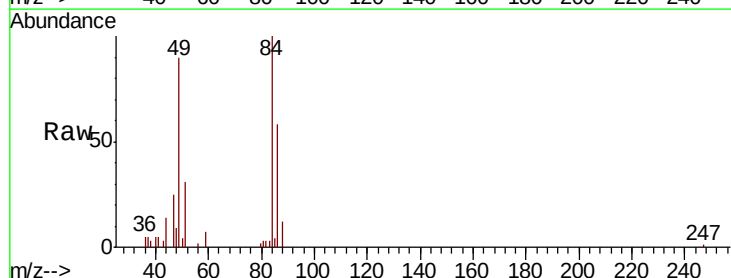
Ion Ratio Lower Upper

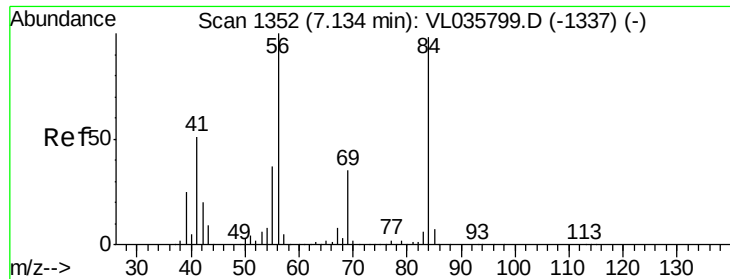
84 100

49 88.3 73.8 110.8

51 31.1 23.0 34.4

86 58.5 52.1 78.1

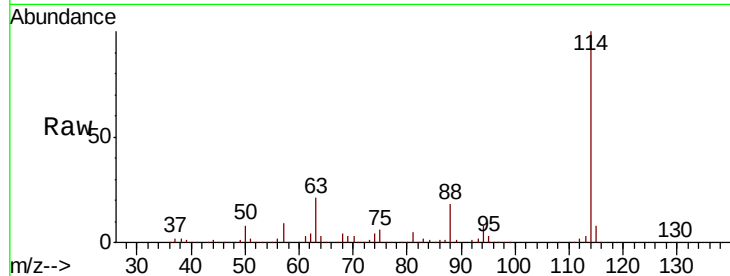




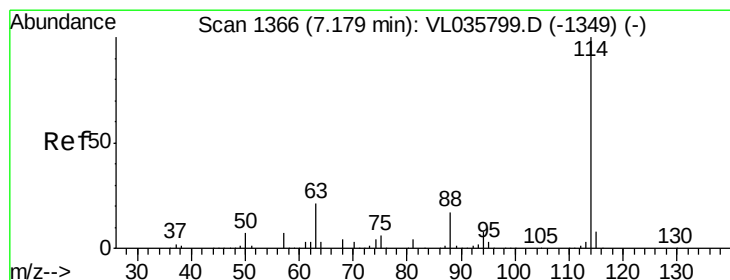
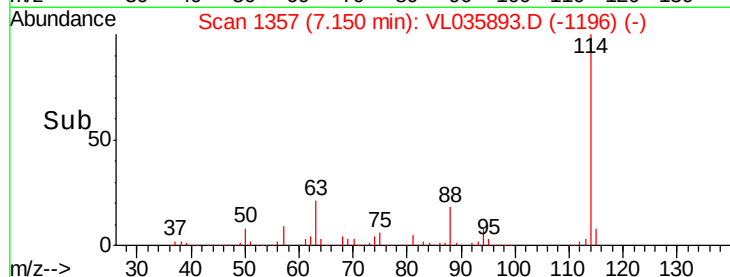
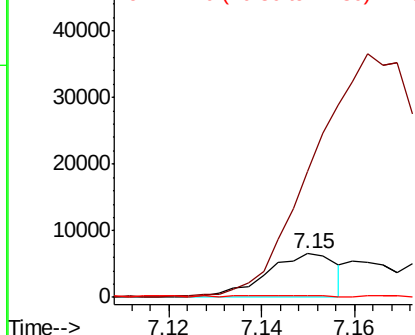
#30  
Cyclohexane  
Concen: 0.046 ppbv  
RT: 7.15 min Scan# 1357  
Delta R.T. 0.02 min  
Lab File: VL035893.D  
Acq: 10 Nov 2020 17:12

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 84 Resp: 6802  
Ion Ratio Lower Upper  
84 100  
56 0.0 86.4 129.6#  
41 0.0 42.1 63.1#

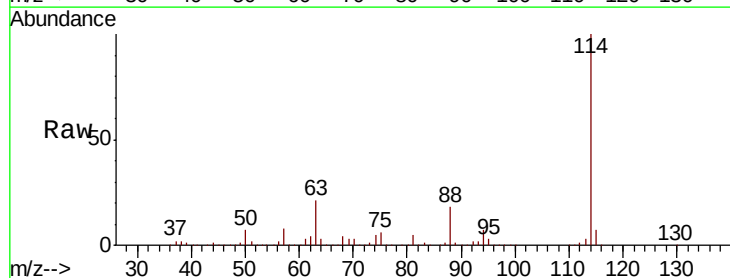


Abundance Ion 84.20 (83.90 to 84.90): VL0  
Ion 56.10 (55.80 to 56.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0

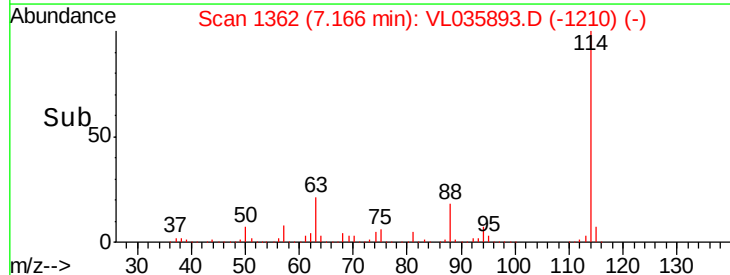
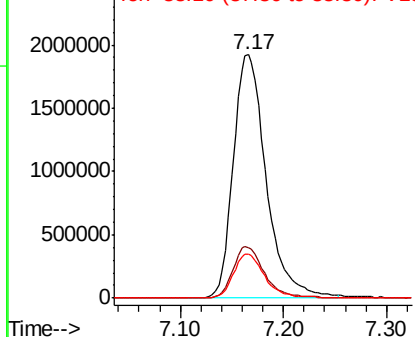


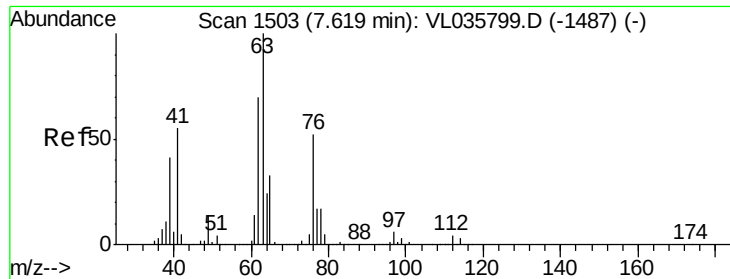
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1362  
Delta R.T. -0.01 min  
Lab File: VL035893.D  
Acq: 10 Nov 2020 17:12

Tgt Ion: 114 Resp: 4277187  
Ion Ratio Lower Upper  
114 100  
63 20.5 16.1 24.1  
88 17.5 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

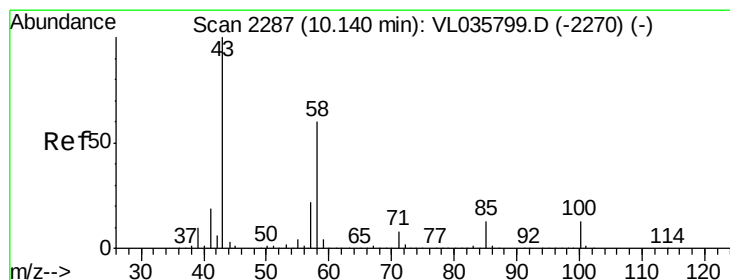
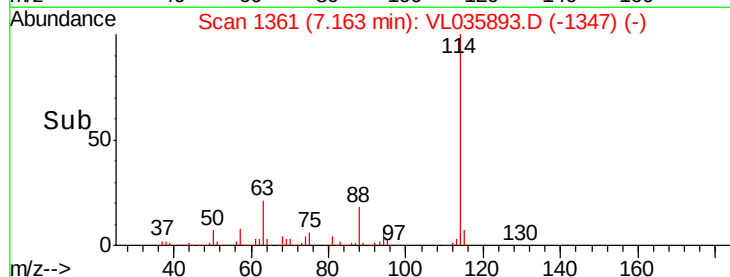
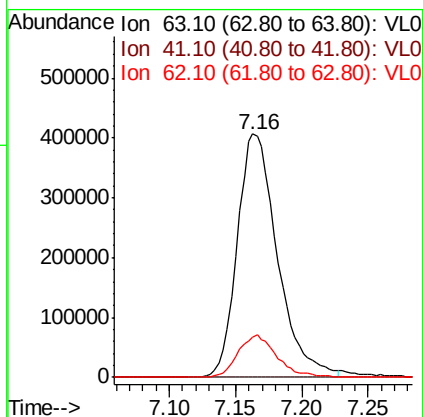
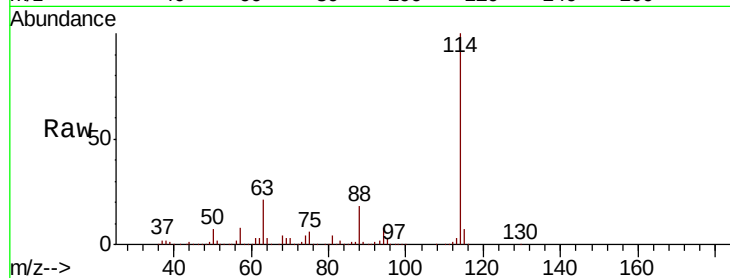




#39  
 1,2-Dichloropropane  
 Concen: 8.004 ppbv  
 RT: 7.16 min Scan# 1361  
 Delta R.T. -0.46 min  
 Lab File: VL035893.D  
 Acq: 10 Nov 2020 17:12

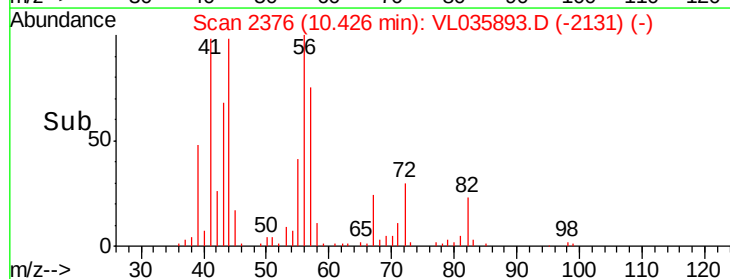
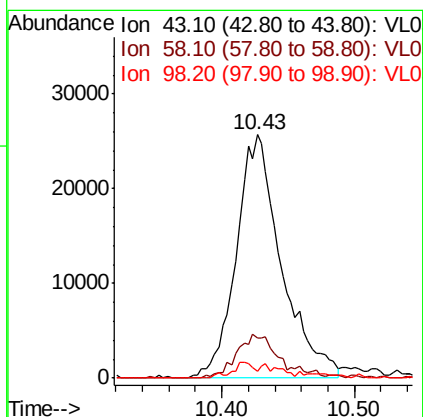
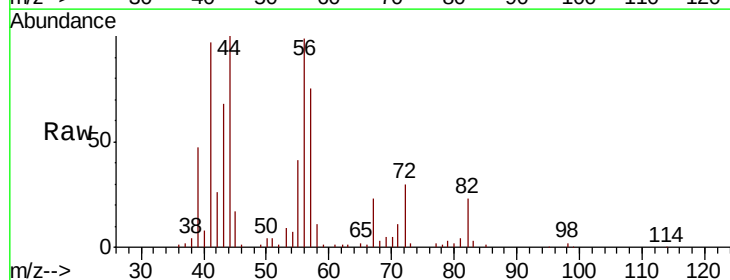
Instrument :  
 MSVOA\_L  
 ClientSampleId :

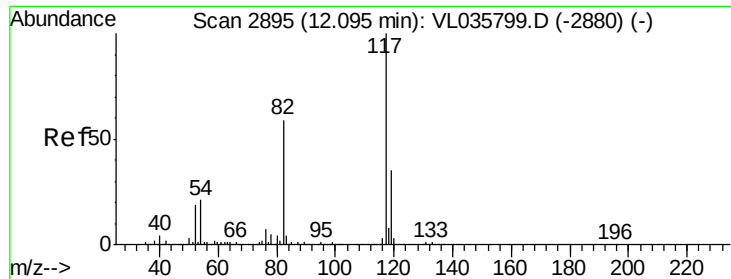
Tot Ion: 63 Resp: 856896  
 Ion Ratio Lower Upper  
 63 100  
 41 0.1 43.8 65.6#  
 62 16.4 56.2 84.2#



#51  
 2-Hexanone  
 Concen: 0.356 ppbv  
 RT: 10.43 min Scan# 2376  
 Delta R.T. 0.29 min  
 Lab File: VL035893.D  
 Acq: 10 Nov 2020 17:12

Tgt Ion: 43 Resp: 60710  
 Ion Ratio Lower Upper  
 43 100  
 58 18.0 48.3 72.5#  
 98 7.2 0.6 0.8#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.02 min

Lab File: VL035893.D

Acq: 10 Nov 2020 17:12

Instrument :

MSVOA\_L

ClientSampleId :

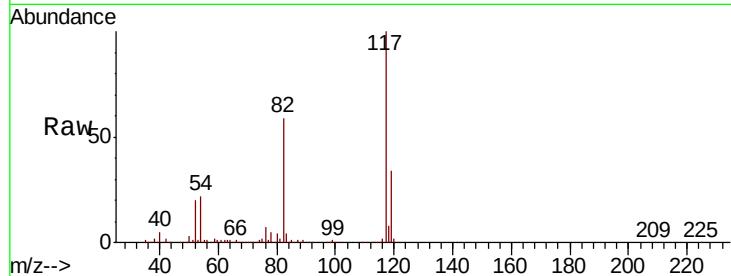
Tot Ion:117 Resp: 4103348

Ion Ratio Lower Upper

117 100

82 60.0 50.6 76.0

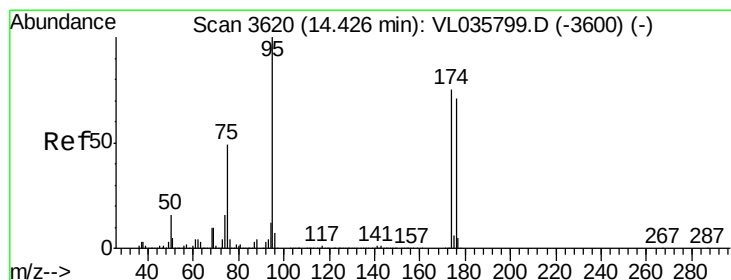
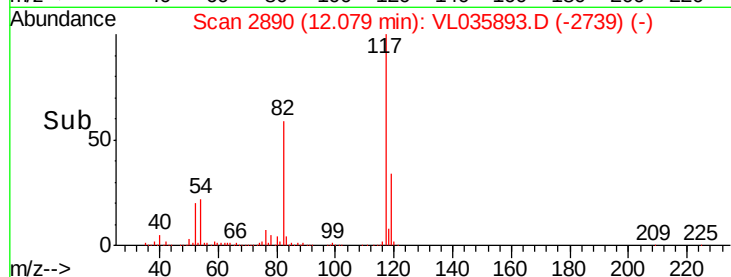
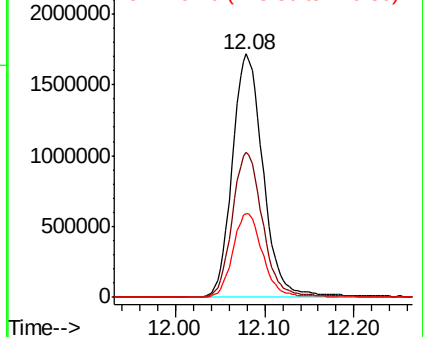
119 34.3 52.6 78.8#



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: 10.170 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.02 min

Lab File: VL035893.D

Acq: 10 Nov 2020 17:12

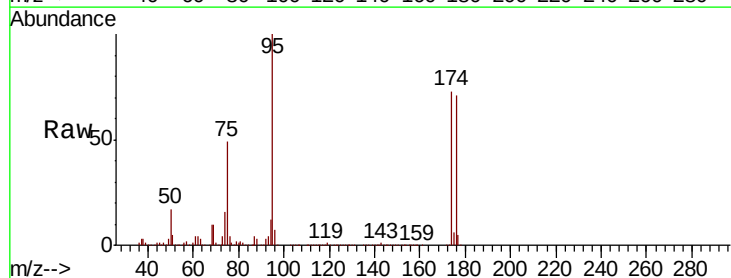
Tgt Ion: 95 Resp: 2964846

Ion Ratio Lower Upper

95 100

174 76.3 59.8 89.6

175 5.3 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

