

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091720\  
 Data File : VL035661.D  
 Acq On : 17 Sep 2020 18:06  
 Operator : SY/AP  
 Sample : L4016-01DL2 200X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-13DL2

Quant Time: Sep 18 04:20:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Sep 14 15:19:50 2020  
 QLast Update : Mon Sep 14 15:19:50 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1162286  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4480922  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 4451510  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 3269812  | 10.34    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.40% |

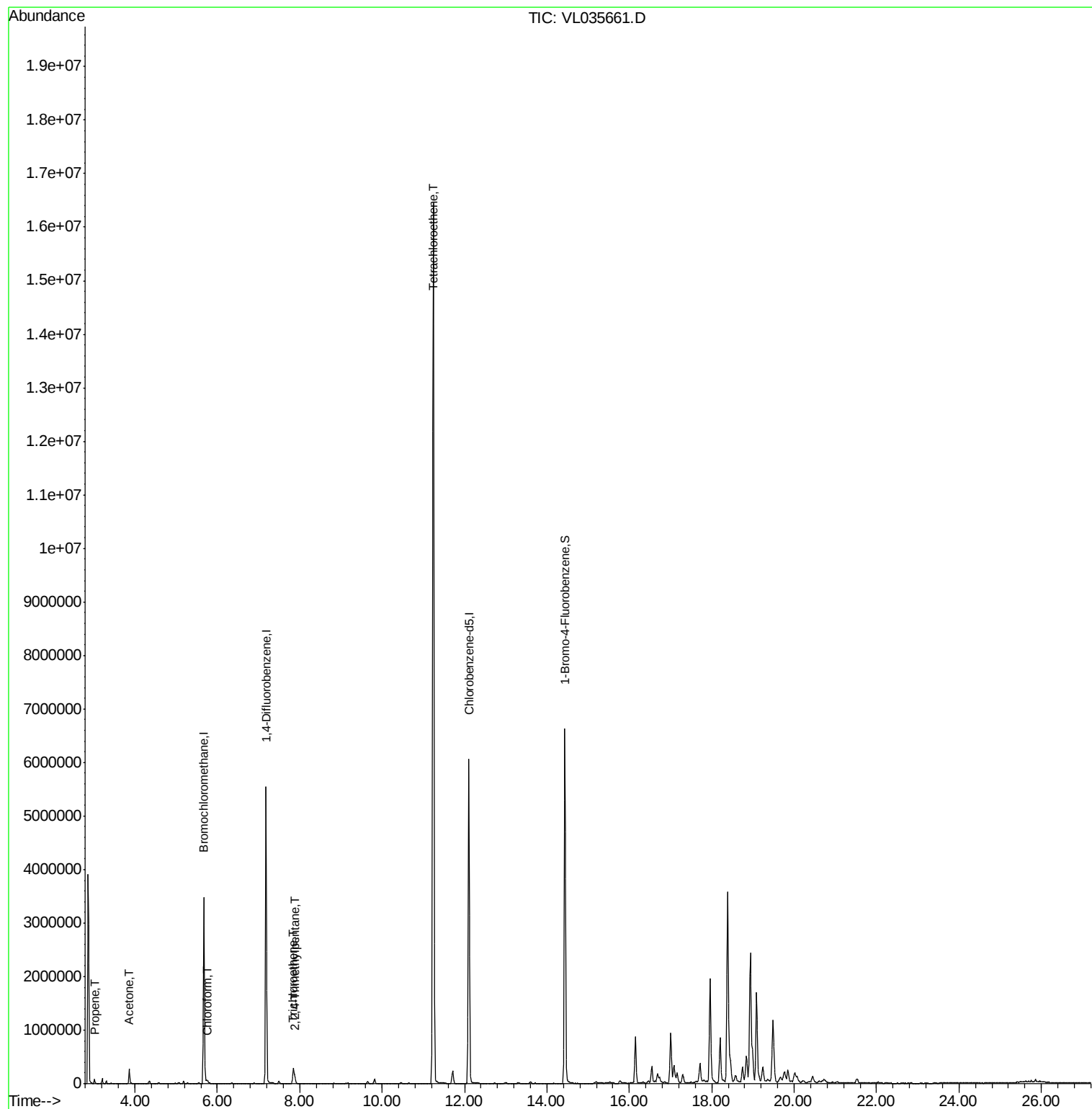
| Target Compounds           |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 9) Propene                 | 3.02  | 41  | 16946   | 0.342 ppbv # | 78     |
| 15) Acetone                | 3.86  | 43  | 269797  | 2.105 ppbv   | 96     |
| 29) Chloroform             | 5.75  | 83  | 33869   | 0.130 ppbv   | 92     |
| 38) Trichloroethene        | 7.84  | 130 | 104252  | 0.619 ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane | 7.88  | 57  | 135010  | 0.354 ppbv # | 93     |
| 52) Tetrachloroethene      | 11.24 | 164 | 4812109 | 28.398 ppbv  | 89     |

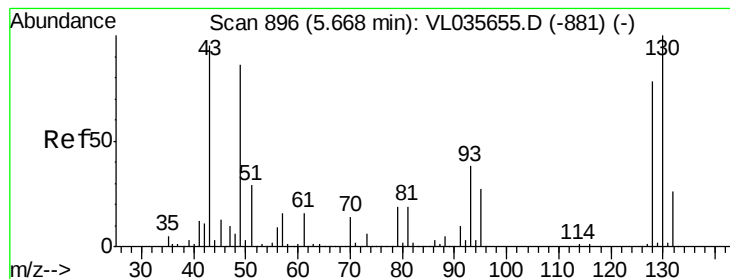
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
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QLast Update : Mon Sep 14 15:19:50 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL035661.D

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Instrument :

MSVOA\_L

ClientSampleId :

SV-13DL2

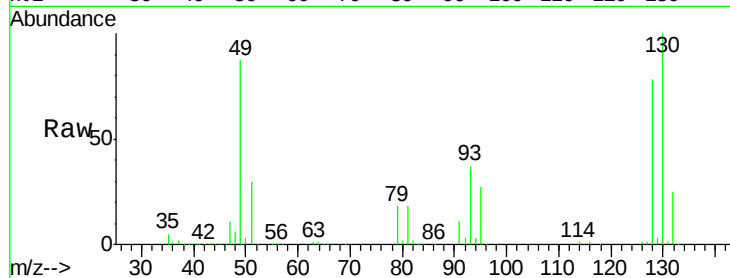
Tot Ion: 49 Resp: 1162286

Ion Ratio Lower Upper

49 100

128 88.0 50.0 150.1

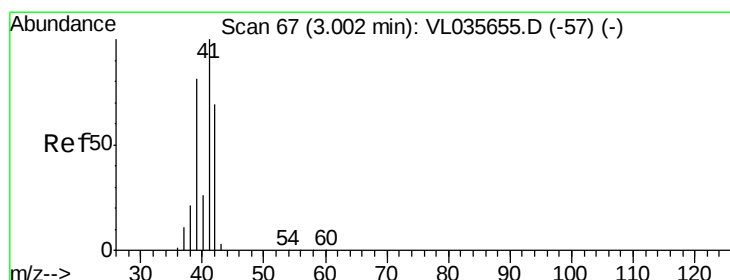
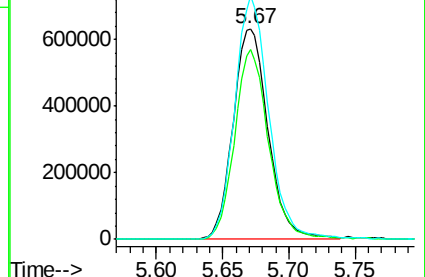
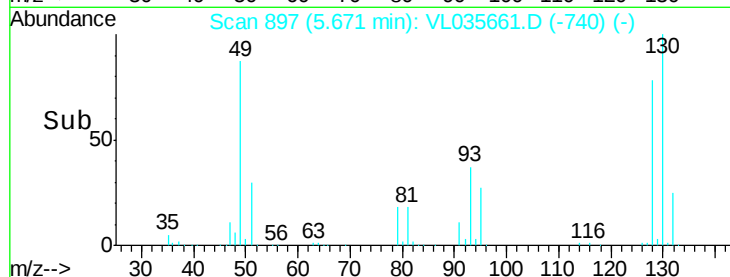
130 113.3 64.4 193.2



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: 0.342 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL035661.D

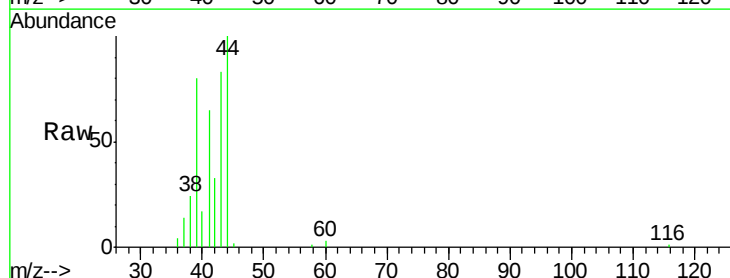
Acq: 17 Sep 2020 18:06

Tgt Ion: 41 Resp: 16946

Ion Ratio Lower Upper

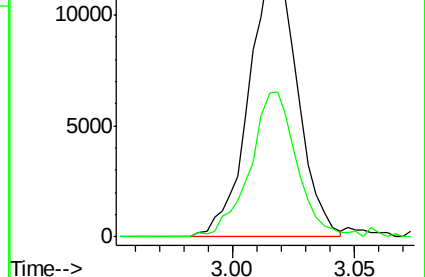
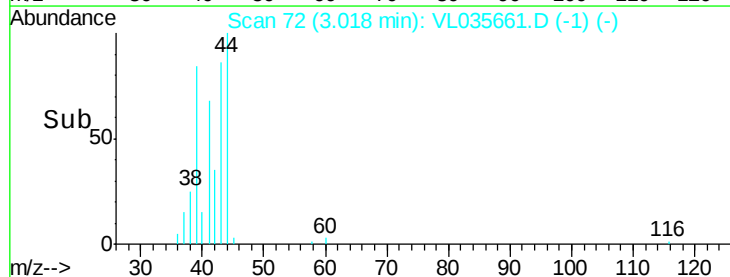
41 100

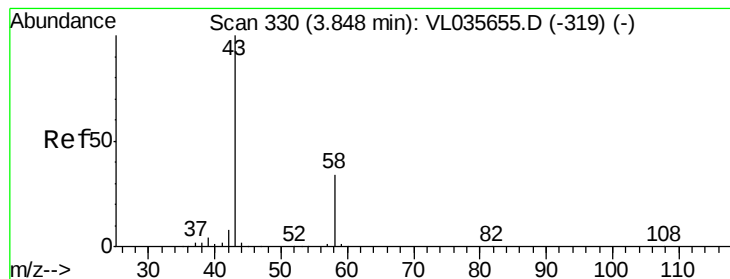
42 52.2 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 2.105 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.02 min

Lab File: VL035661.D

Acq: 17 Sep 2020 18:06

Instrument :

MSVOA\_L

ClientSampleId :

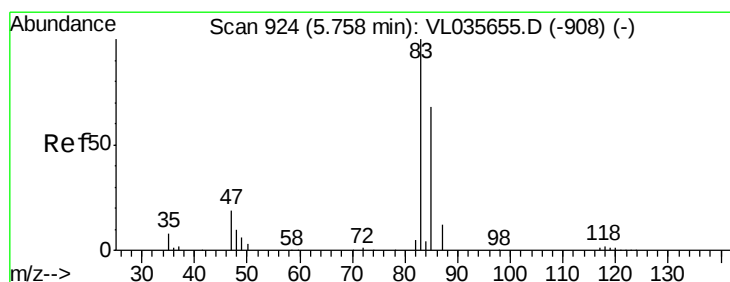
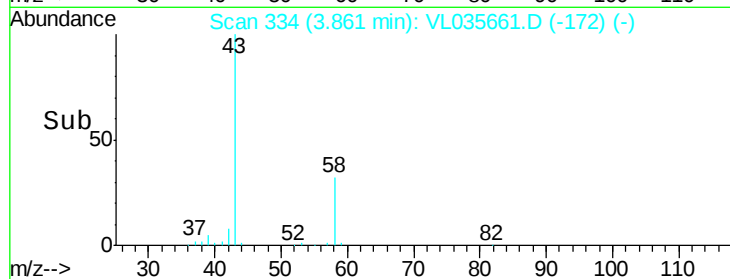
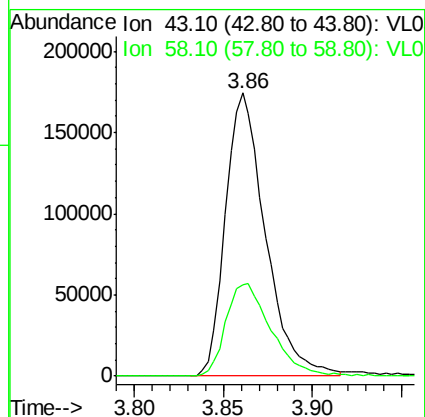
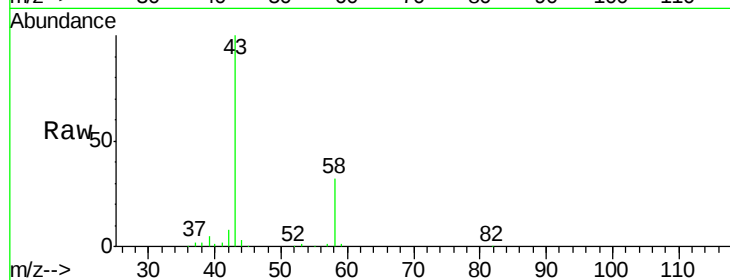
SV-13DL2

Tot Ion: 43 Resp: 269797

Ion Ratio Lower Upper

43 100

58 37.7 28.4 42.6



#29

Chloroform

Concen: 0.130 ppbv

RT: 5.75 min Scan# 923

Delta R.T. 0.01 min

Lab File: VL035661.D

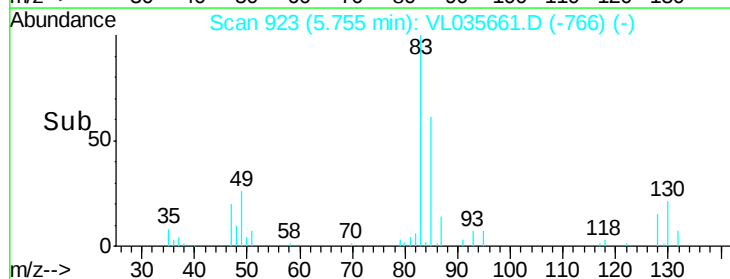
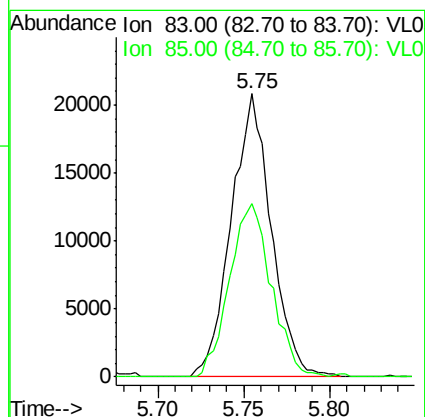
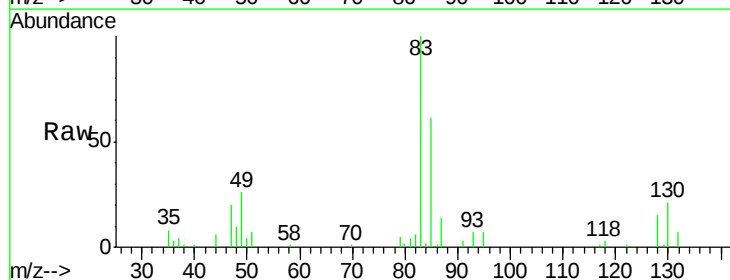
Acq: 17 Sep 2020 18:06

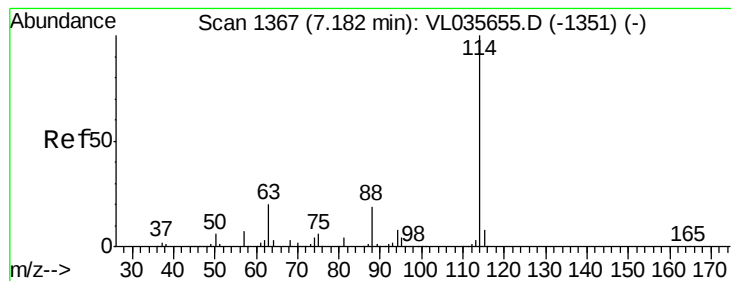
Tgt Ion: 83 Resp: 33869

Ion Ratio Lower Upper

83 100

85 61.2 53.9 80.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL035661.D

Acq: 17 Sep 2020 18:06

Instrument :

MSVOA\_L

ClientSampleId :

SV-13DL2

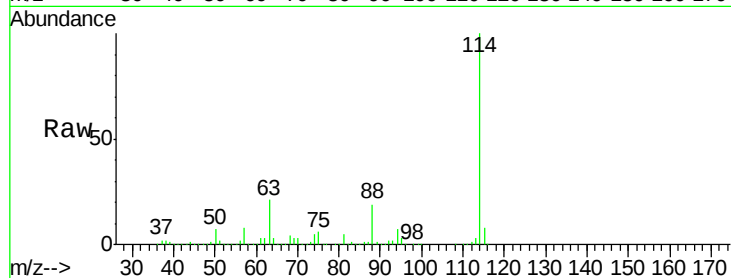
Tot Ion:114 Resp: 4480922

Ion Ratio Lower Upper

114 100

63 19.5 14.7 22.1

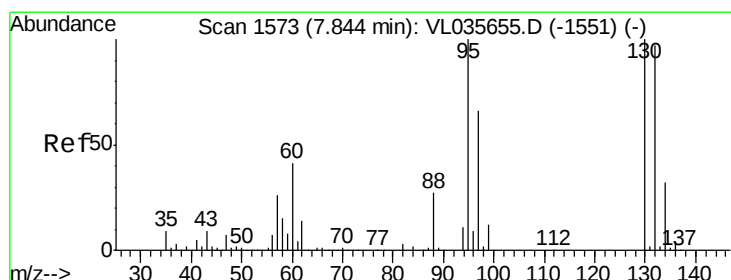
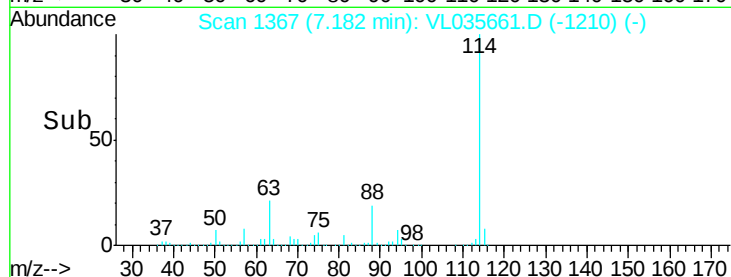
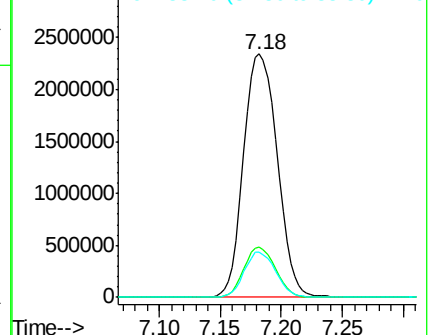
88 17.4 13.4 20.2



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



#38

Trichloroethene

Concen: 0.619 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VL035661.D

Acq: 17 Sep 2020 18:06

Tgt Ion:130 Resp: 104252

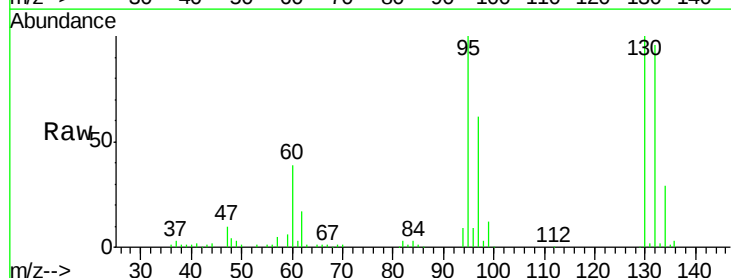
Ion Ratio Lower Upper

130 100

95 99.7 74.6 112.0

132 96.0 77.6 116.4

97 62.2 50.6 76.0

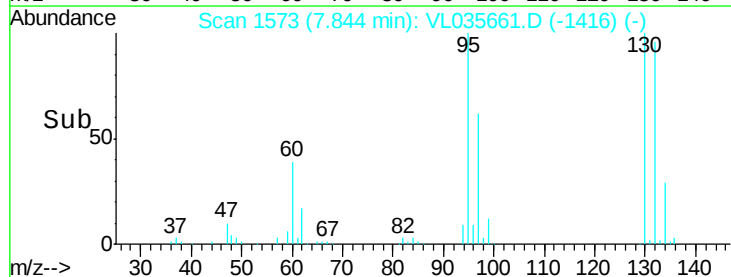
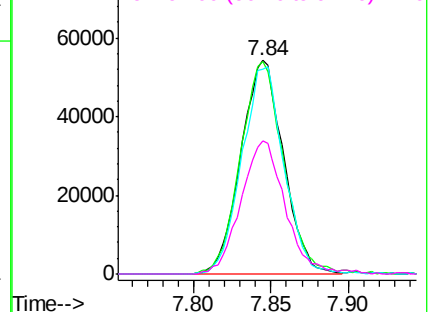


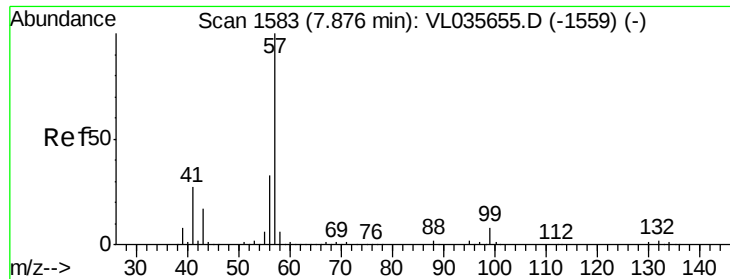
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

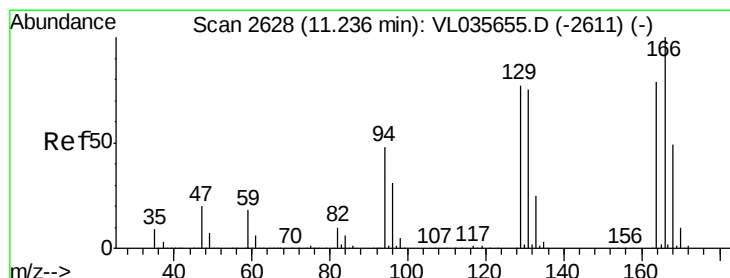
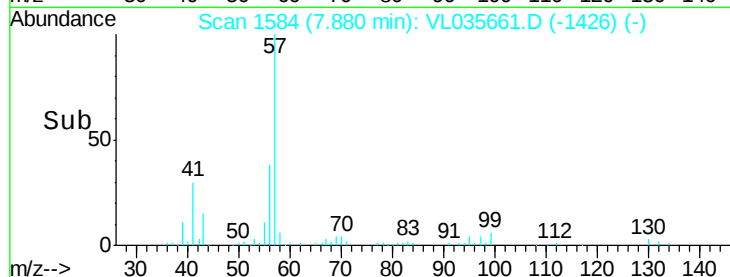
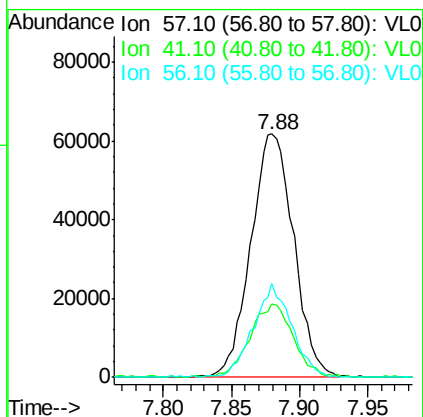
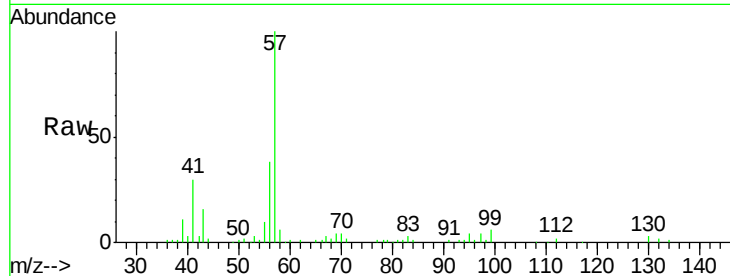




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.354 ppbv  
 RT: 7.88 min Scan# 1584  
 Delta R.T. 0.01 min  
 Lab File: VL035661.D  
 Acq: 17 Sep 2020 18:06

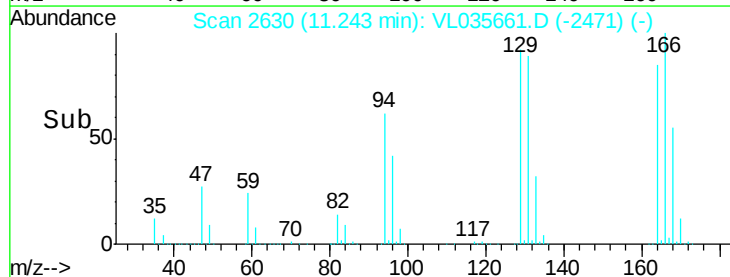
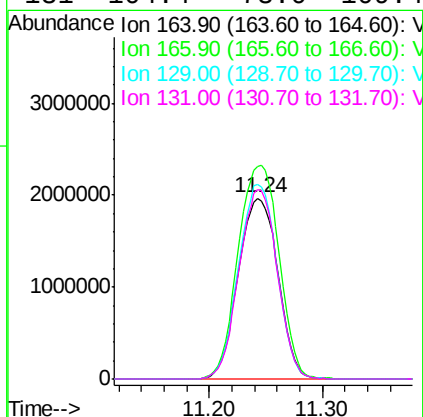
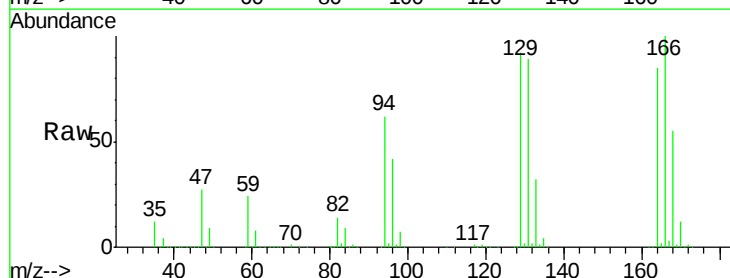
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-13DL2

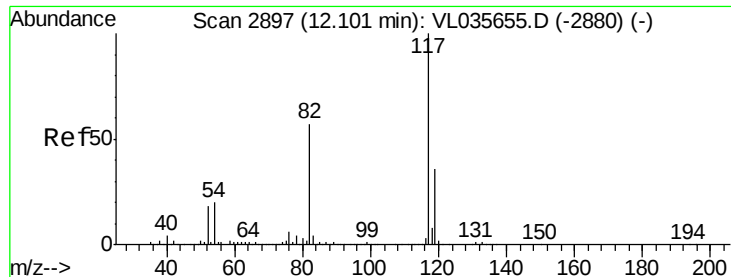
Tot Ion: 57 Resp: 135010  
 Ion Ratio Lower Upper  
 57 100  
 41 30.9 20.5 30.7#  
 56 34.4 25.3 37.9



#52  
 Tetrachloroethene  
 Concen: 28.398 ppbv  
 RT: 11.24 min Scan# 2630  
 Delta R.T. 0.01 min  
 Lab File: VL035661.D  
 Acq: 17 Sep 2020 18:06

Tgt Ion: 164 Resp: 4812109  
 Ion Ratio Lower Upper  
 164 100  
 166 117.3 100.9 151.3  
 129 107.6 75.3 112.9  
 131 104.4 73.0 109.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. 0.01 min

Lab File: VL035661.D

Acq: 17 Sep 2020 18:06

Instrument :

MSVOA\_L

ClientSampled :

SV-13DL2

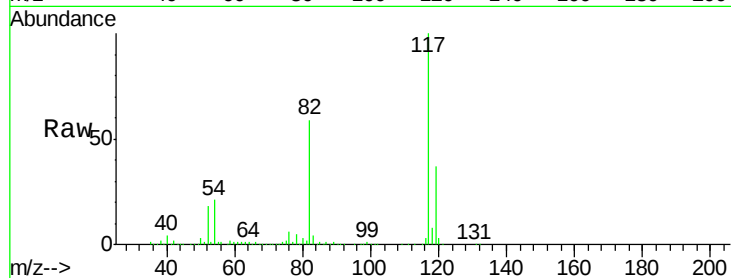
Tot Ion:117 Resp: 4451510

Ion Ratio Lower Upper

117 100

82 57.3 41.6 62.4

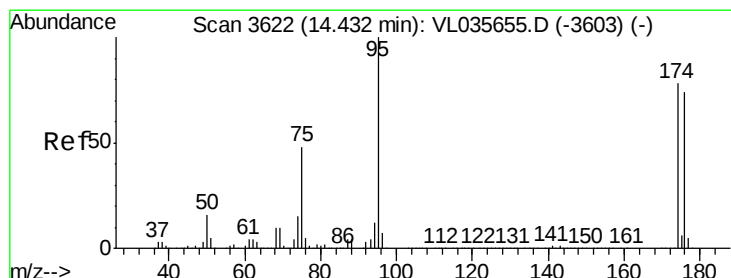
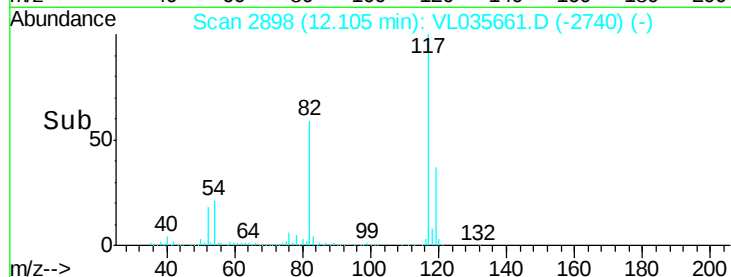
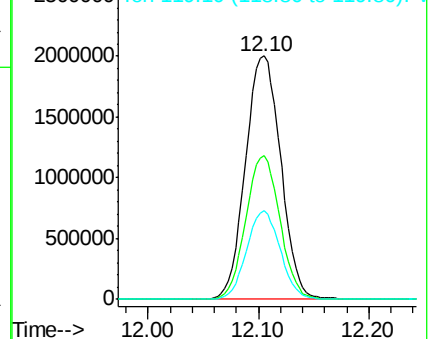
119 34.8 29.3 43.9



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: 10.343 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.01 min

Lab File: VL035661.D

Acq: 17 Sep 2020 18:06

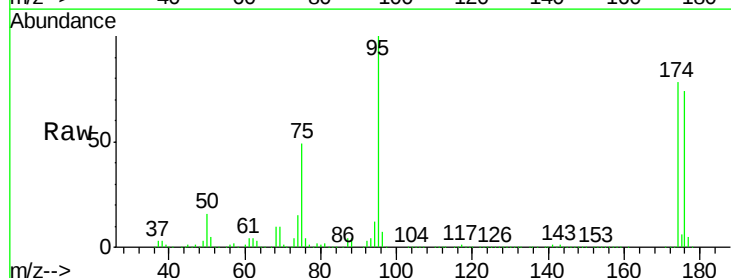
Tgt Ion: 95 Resp: 3269812

Ion Ratio Lower Upper

95 100

174 78.2 69.6 104.4

175 5.6 5.1 7.7



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

