

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\  
 Data File : VL035031.D  
 Acq On : 14 May 2020 22:13  
 Operator : SY/AP  
 Sample : L2566-05DL2 1200X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: May 15 01:12:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed May 06 14:49:39 2020  
 QLast Update : Wed May 06 14:49:39 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1155705  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2672740  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2534779  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 2101251  | 10.24    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.40% |

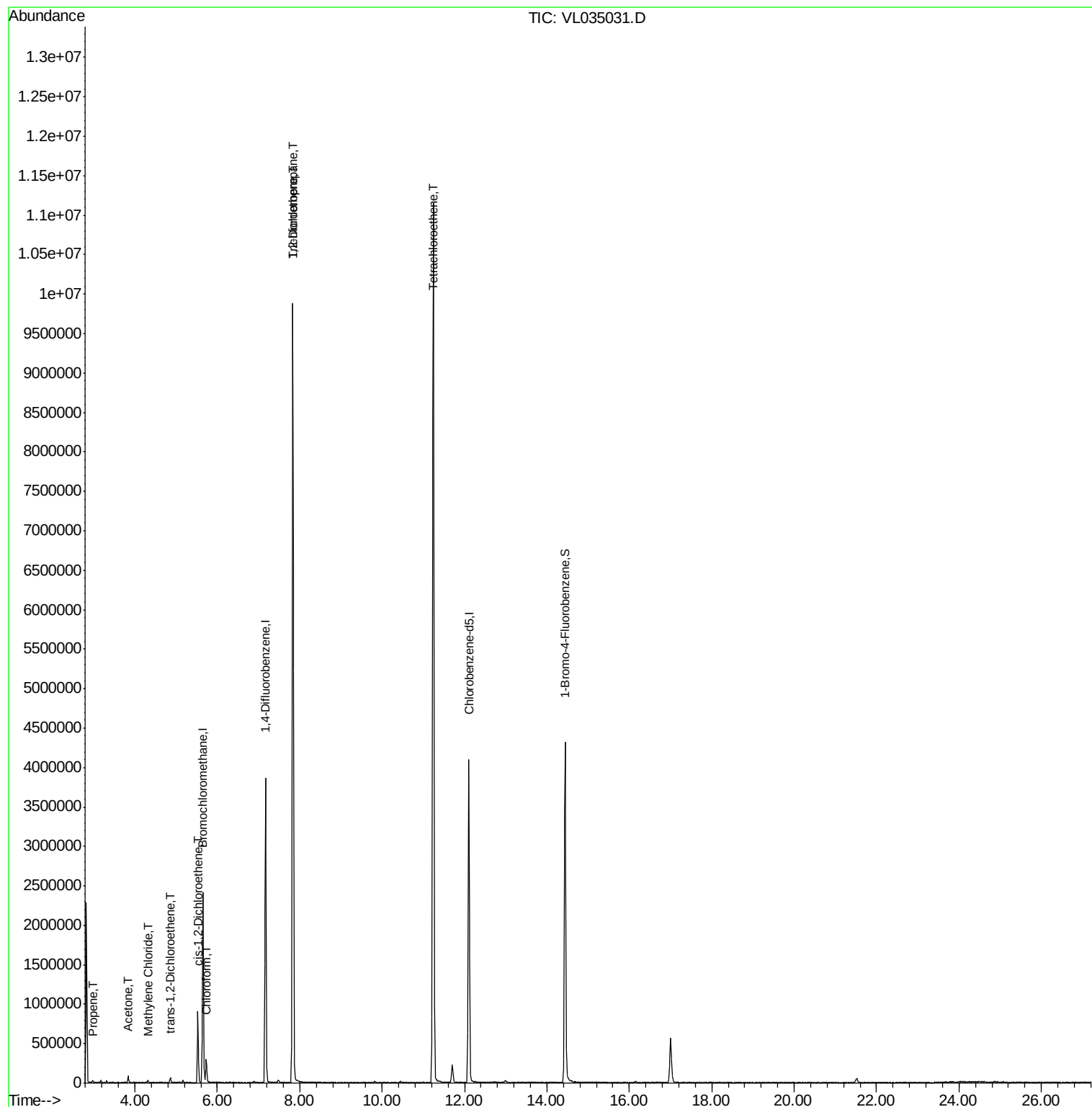
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene                   | 2.96  | 41   | 2209     | 0.039  | ppbv # | 16     |
| 15) Acetone                  | 3.83  | 43   | 75364    | 0.493  | ppbv   | 93     |
| 20) Methylene Chloride       | 4.31  | 84   | 2865     | 0.057  | ppbv # | 67     |
| 22) trans-1,2-Dichloroethene | 4.86  | 96   | 20222    | 0.391  | ppbv   | 85     |
| 29) Chloroform               | 5.73  | 83   | 190262   | 1.045  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene   | 5.53  | 61   | 481163   | 4.432  | ppbv   | 94     |
| 38) Trichloroethene          | 7.83  | 130  | 3226747  | 37.798 | ppbv   | 97     |
| 39) 1,2-Dichloropropane      | 7.84  | 63   | 7453     | 0.084  | ppbv # | 1      |
| 52) Tetrachloroethene        | 11.24 | 164  | 2996954  | 38.249 | ppbv   | 98     |

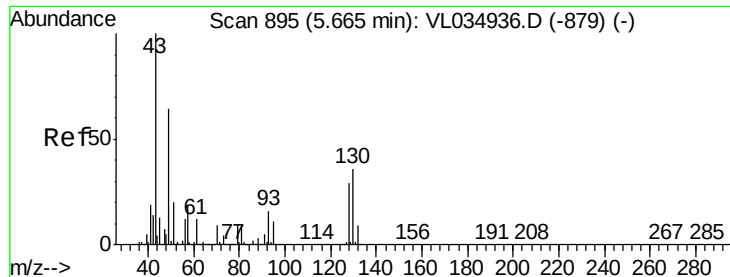
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051420\  
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Quant Time: May 15 01:12:33 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M  
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QLast Update : Wed May 06 14:49:39 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

Instrument :

MSVOA\_L

ClientSampleId :

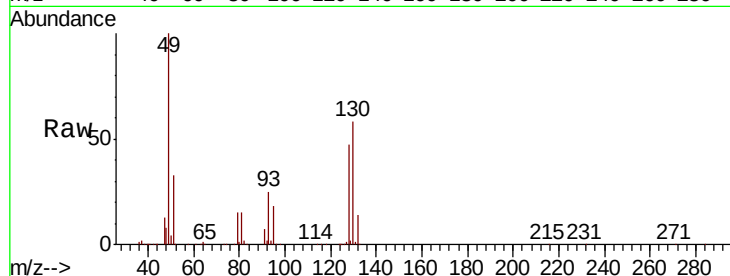
Tot Ion: 49 Resp: 1155705

Ion Ratio Lower Upper

49 100

128 45.7 22.1 66.5

130 57.5 29.1 87.3



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

800000

600000

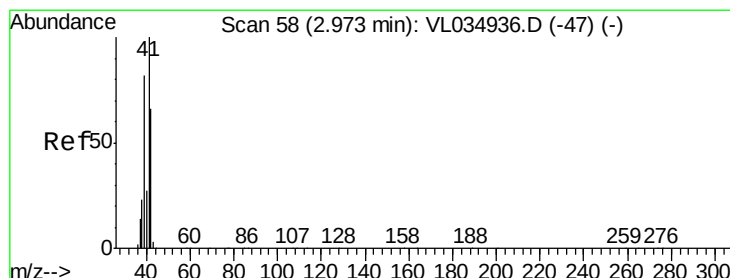
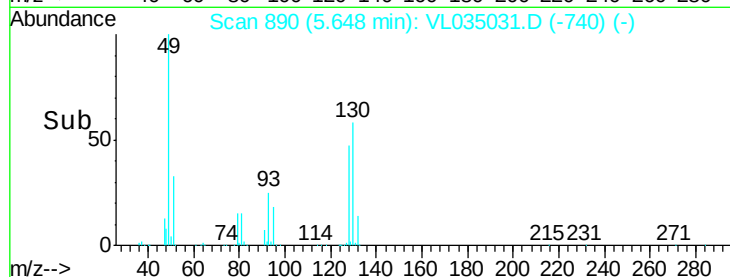
400000

200000

0

5.55 5.60 5.65 5.70

Time-->



#9

Propene

Concen: 0.039 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.01 min

Lab File: VL035031.D

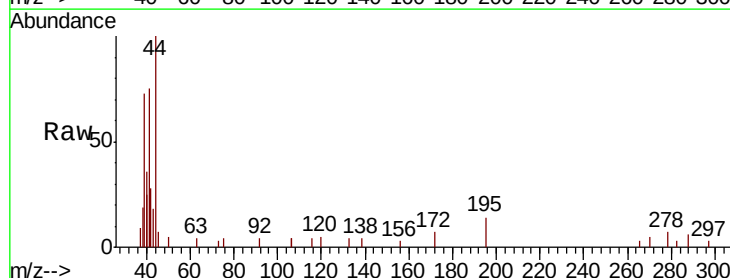
Acq: 14 May 2020 22:13

Tgt Ion: 41 Resp: 2209

Ion Ratio Lower Upper

41 100

42 0.0 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

6000

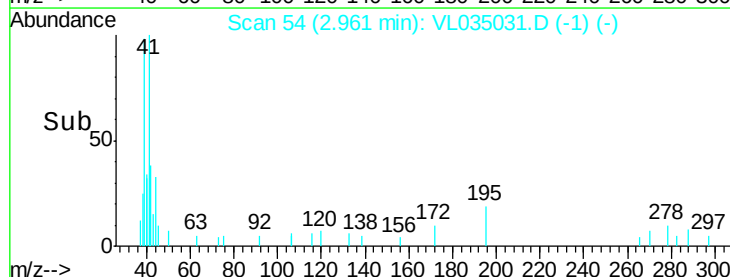
4000

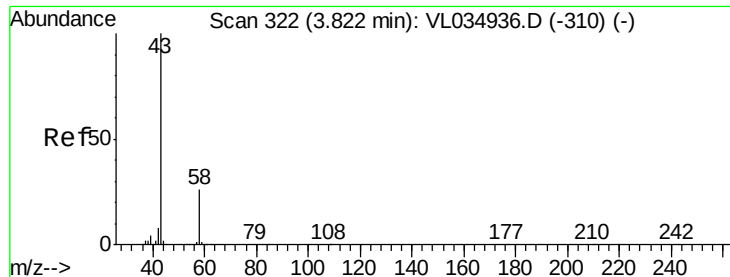
2000

0

2.93 2.94 2.95 2.96 2.97

Time-->





#15

Acetone

Concen: 0.493 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

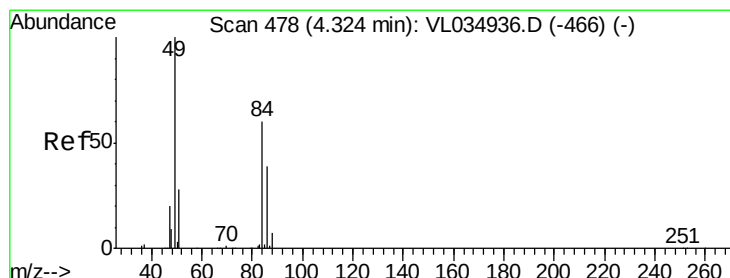
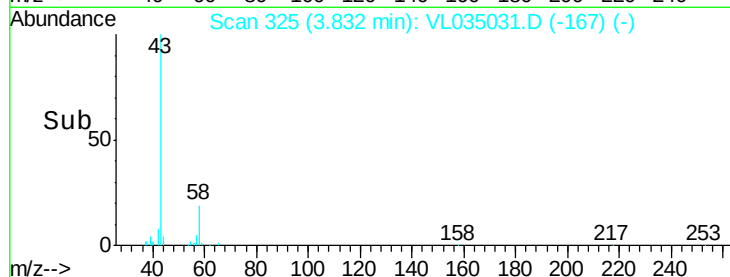
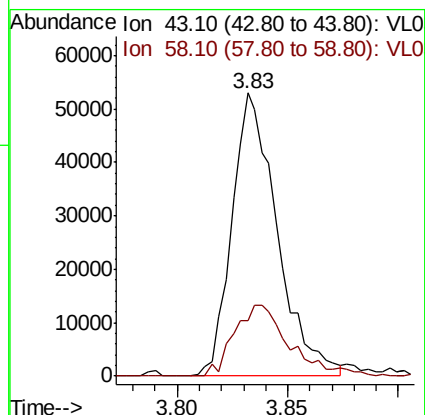
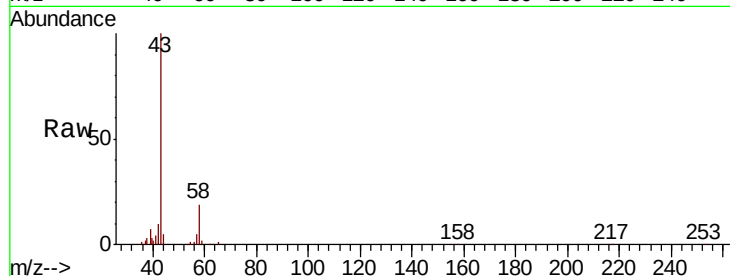
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 43 Resp: 75364

Ion Ratio Lower Upper

43 100

58 30.9 21.7 32.5



#20

Methylene Chloride

Concen: 0.057 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.02 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

Tgt Ion: 84 Resp: 2865

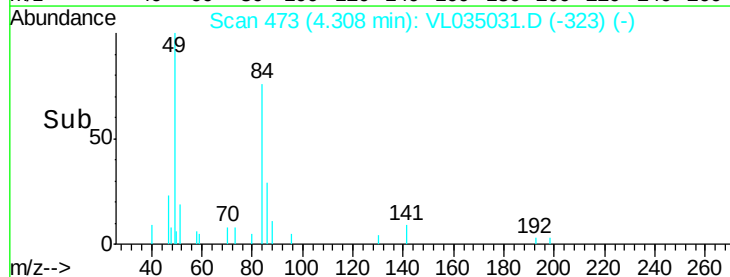
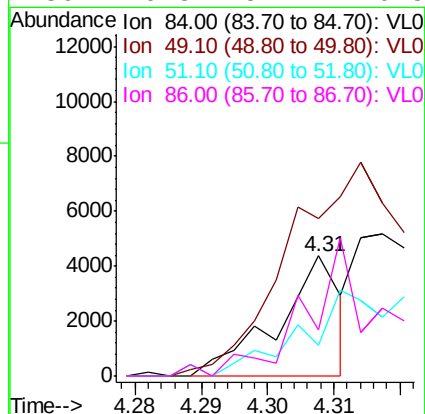
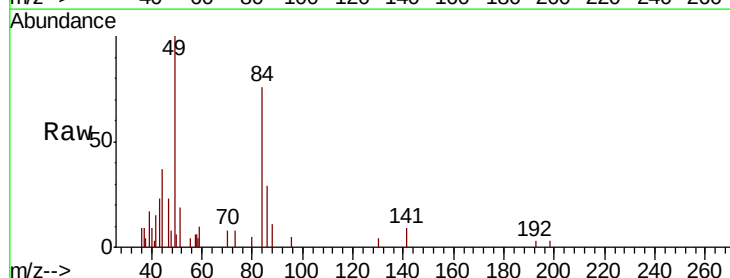
Ion Ratio Lower Upper

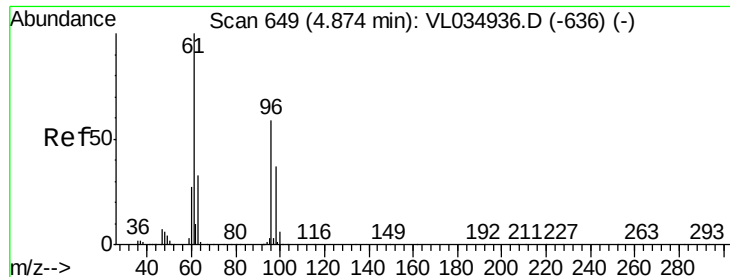
84 100

49 133.6 132.5 198.7

51 15.5 38.4 57.6#

86 29.3 51.2 76.8#





#22

trans-1,2-Dichloroethene

Concen: 0.391 ppbv

RT: 4.86 min Scan# 645

Delta R.T. -0.01 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

Instrument :

MSVOA\_L

ClientSampleId :

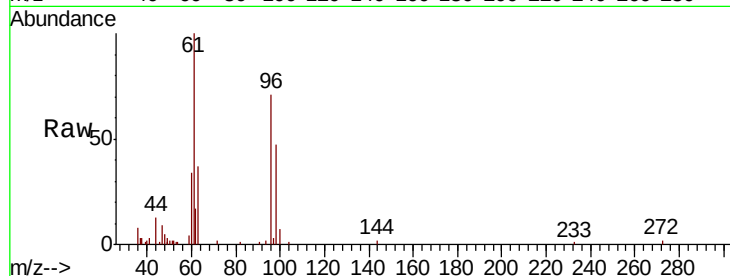
Tot Ion: 96 Resp: 20222

Ion Ratio Lower Upper

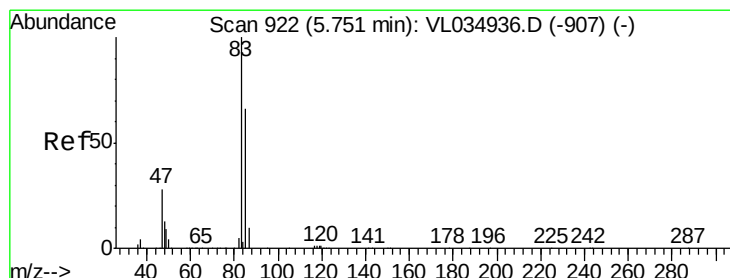
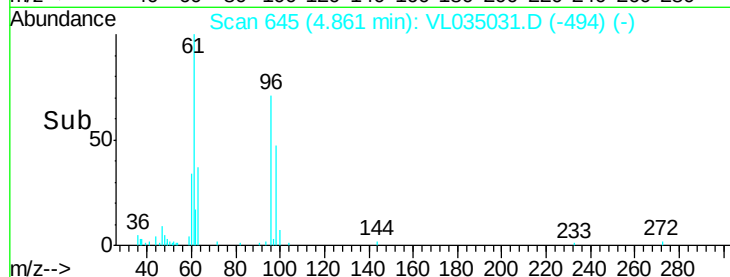
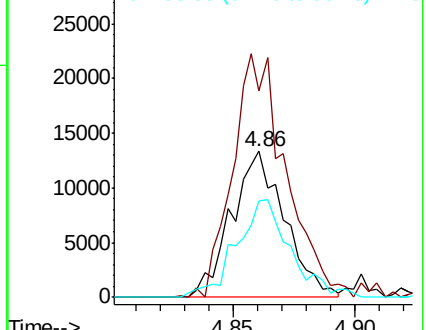
96 100

61 141.6 135.3 202.9

98 63.4 50.4 75.6



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0



#29

Chloroform

Concen: 1.045 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.02 min

Lab File: VL035031.D

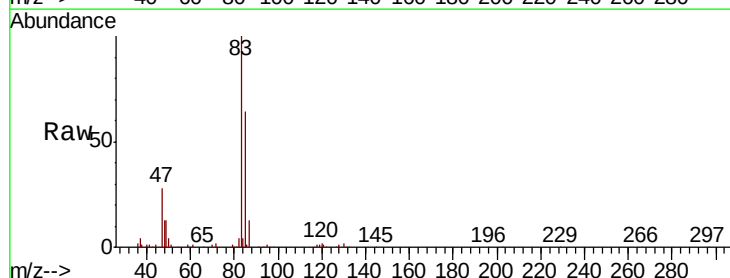
Acq: 14 May 2020 22:13

Tgt Ion: 83 Resp: 190262

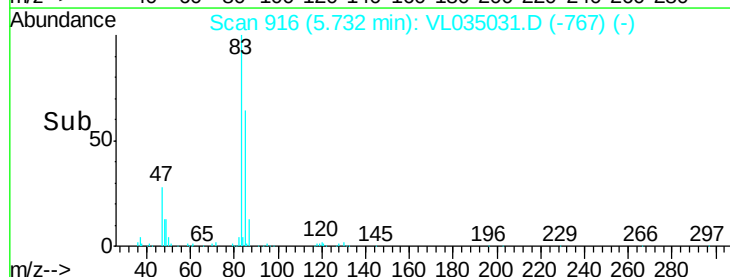
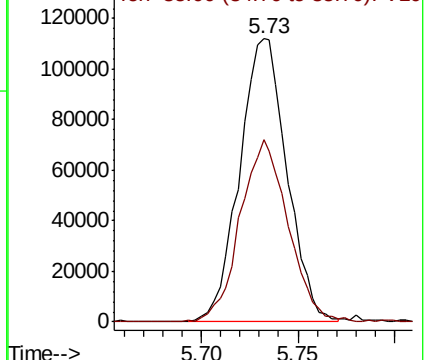
Ion Ratio Lower Upper

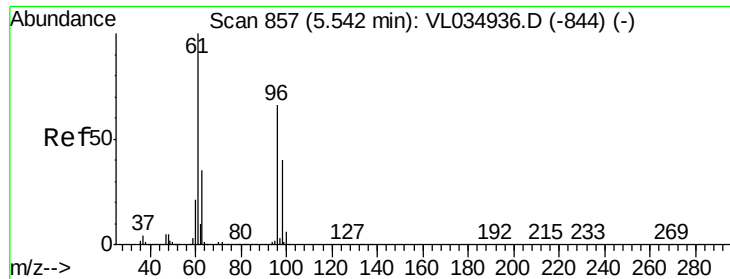
83 100

85 63.8 53.0 79.6



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0



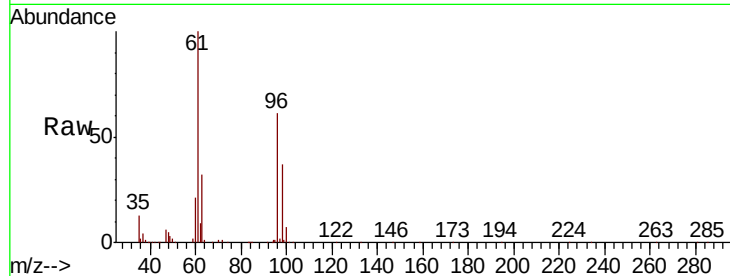


#31

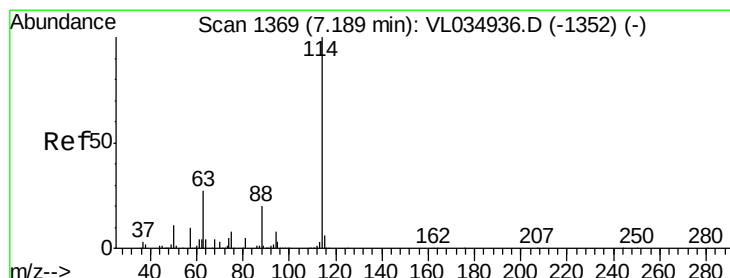
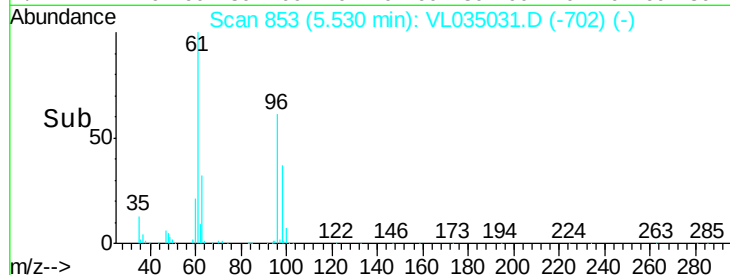
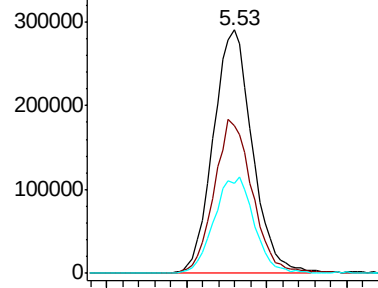
cis-1,2-Dichloroethene  
 Concen: 4.432 ppbv  
 RT: 5.53 min Scan# 853  
 Delta R.T. -0.01 min  
 Lab File: VL035031.D  
 Acq: 14 May 2020 22:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 60.8  | 53.0  | 79.6  |
| 98      | 36.9  | 32.2  | 48.2  |



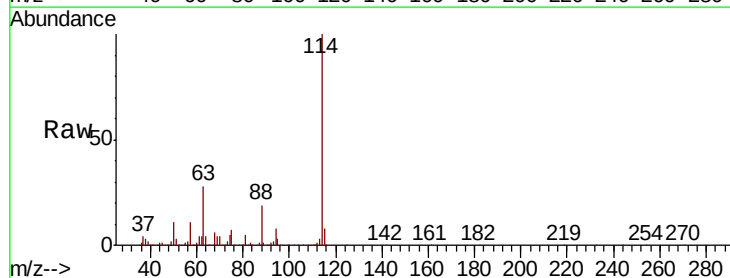
Abundance Ion 61.10 (60.80 to 61.80): VL0  
 Ion 96.00 (95.70 to 96.70): VL0  
 Ion 98.00 (97.70 to 98.70): VL0



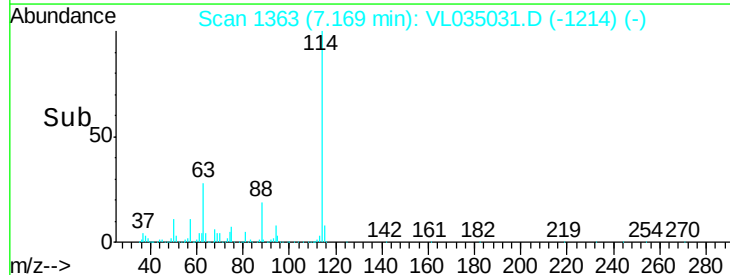
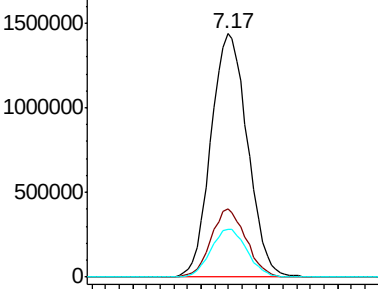
#33

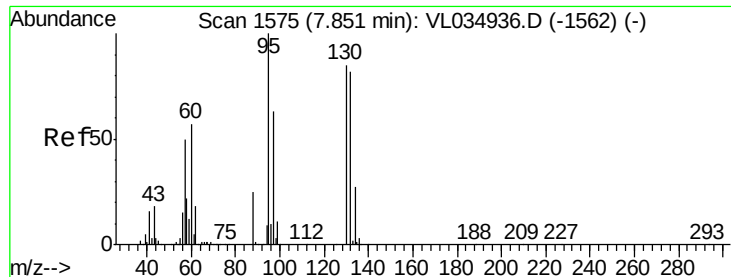
1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1363  
 Delta R.T. -0.02 min  
 Lab File: VL035031.D  
 Acq: 14 May 2020 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 26.9  | 22.2  | 33.4  |
| 88      | 19.6  | 15.5  | 23.3  |



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: 37.798 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.02 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:130 Resp: 3226747

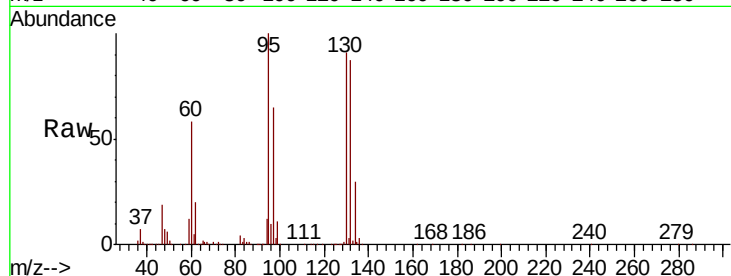
Ion Ratio Lower Upper

130 100

95 110.3 93.4 140.0

132 96.0 76.4 114.6

97 72.1 58.5 87.7

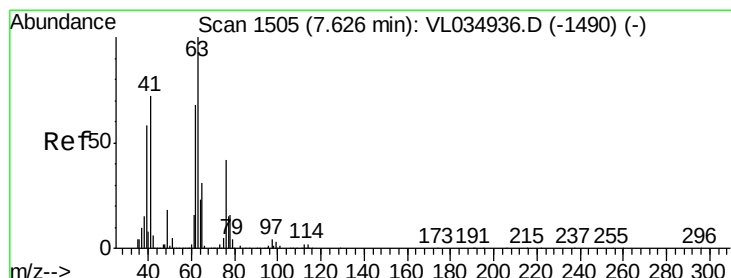
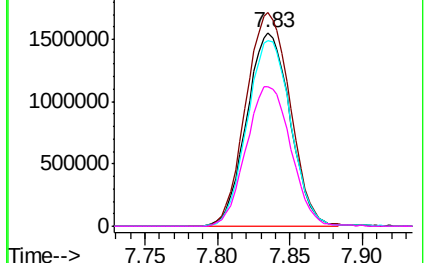
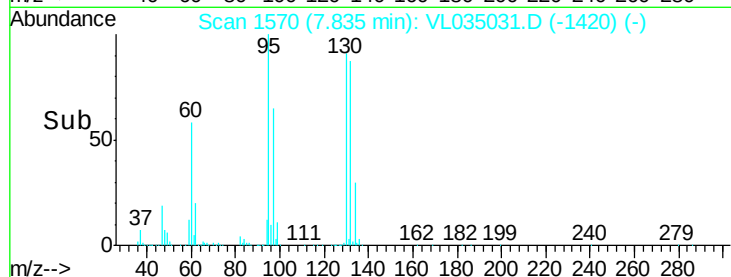


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 0.084 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.22 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

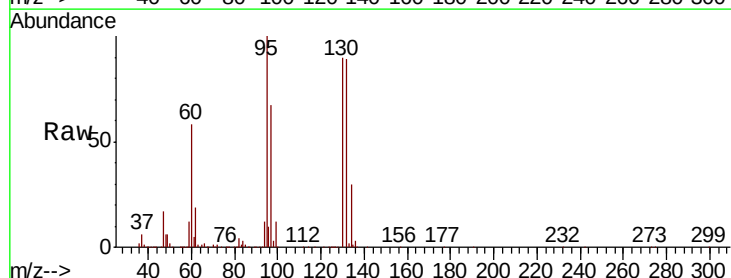
Tgt Ion: 63 Resp: 7453

Ion Ratio Lower Upper

63 100

41 2.2 57.8 86.8#

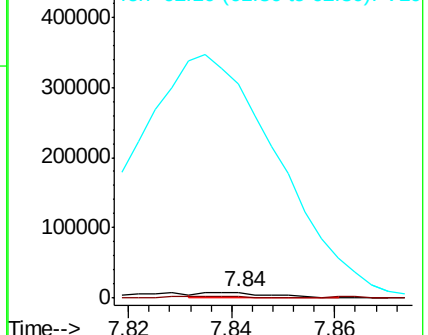
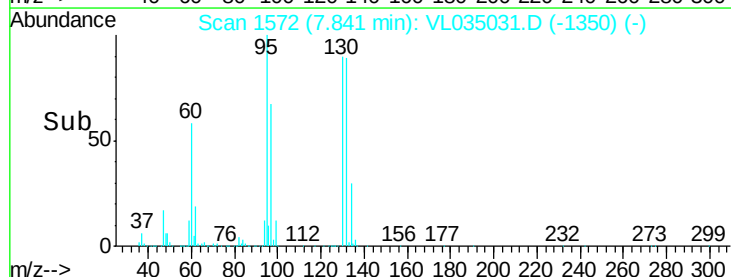
62 2951.4 54.2 81.2#

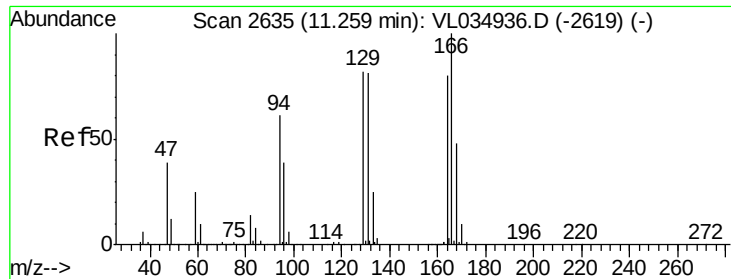


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 38.249 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. -0.02 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

Instrument :

MSVOA\_L

ClientSampled :

Tot Ion:164 Resp: 2996954

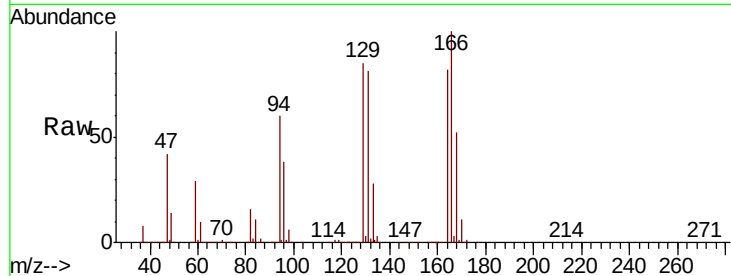
Ion Ratio Lower Upper

164 100

166 121.8 100.7 151.1

129 103.1 83.0 124.4

131 98.3 81.0 121.4



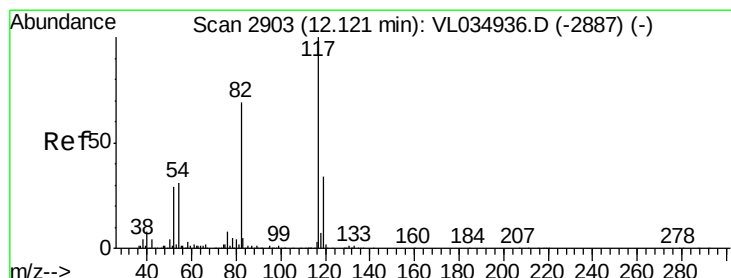
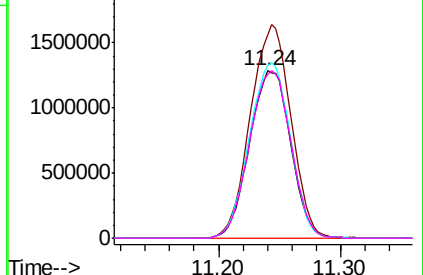
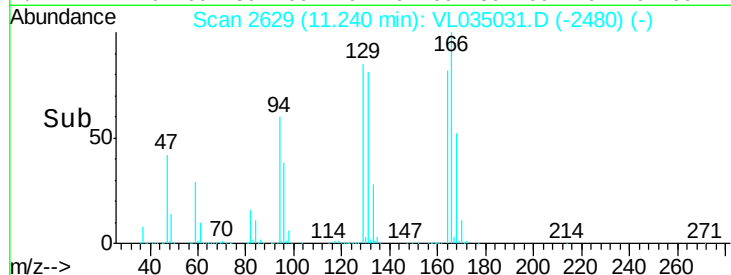
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.02 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

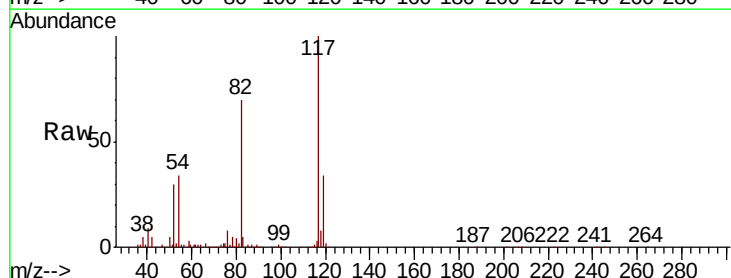
Tgt Ion:117 Resp: 2534779

Ion Ratio Lower Upper

117 100

82 69.2 53.1 79.7

119 33.1 26.7 40.1

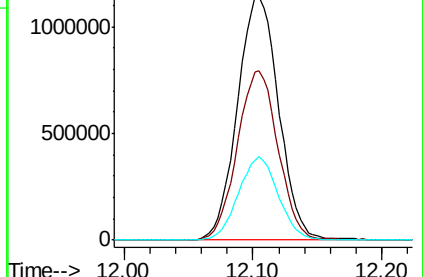
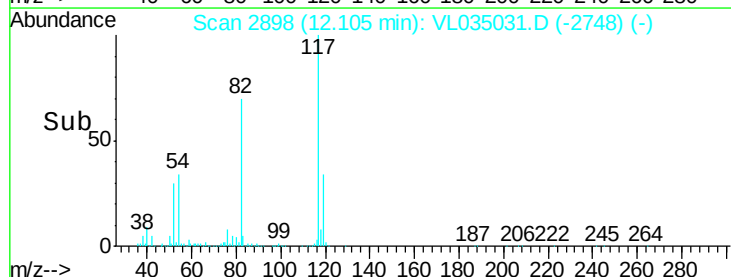


Abundance Ion 117.10 (116.80 to 117.80): V

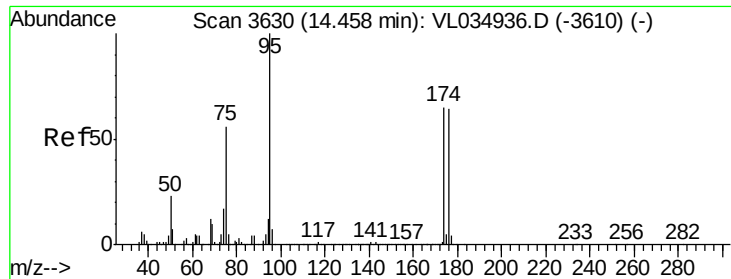
Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

Time-->







#68

1-Bromo-4-Fluorobenzene

Concen: 10.241 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.02 min

Lab File: VL035031.D

Acq: 14 May 2020 22:13

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 95 Resp: 2101251

Ion Ratio Lower Upper

95 100

174 65.4 51.5 77.3

175 5.2 3.8 5.8

