

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100521\  
 Data File : VL037783.D  
 Acq On : 5 Oct 2021 21:15  
 Operator : SY/AP  
 Sample : M4012-11DL 40X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P07DL

Quant Time: Oct 06 04:48:24 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL100421AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Mon Oct 04 17:43:54 2021  
 QLast Update : Mon Oct 04 17:43:54 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1271002  | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3698954  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3166007  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.38  | 95    | 1121030  | 5.06     | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 50.60%# |

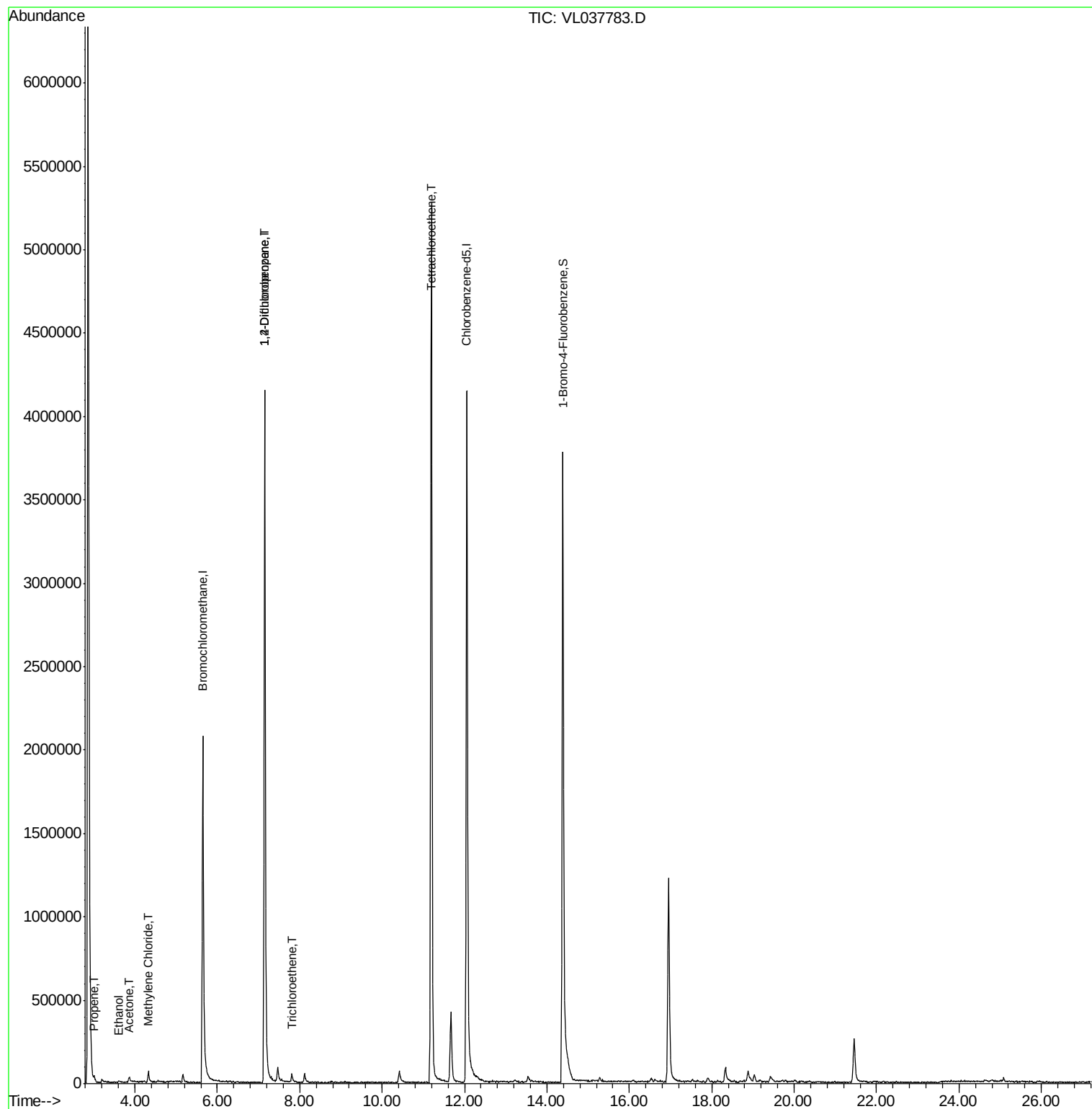
| Target Compounds        | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene              | 3.00  | 41   | 2714     | 0.030  | ppbv # | 16     |
| 13) Ethanol             | 3.61  | 45   | 3549     | 0.483  | ppbv   | 83     |
| 15) Acetone             | 3.85  | 43   | 9707     | 0.085  | ppbv # | 46     |
| 20) Methylene Chloride  | 4.33  | 84   | 13557    | 0.235  | ppbv # | 83     |
| 38) Trichloroethene     | 7.81  | 130  | 10607    | 0.085  | ppbv # | 52     |
| 39) 1,2-Dichloropropane | 7.15  | 63   | 880349   | 7.408  | ppbv # | 28     |
| 52) Tetrachloroethene   | 11.19 | 164  | 1476671  | 12.013 | ppbv   | 96     |

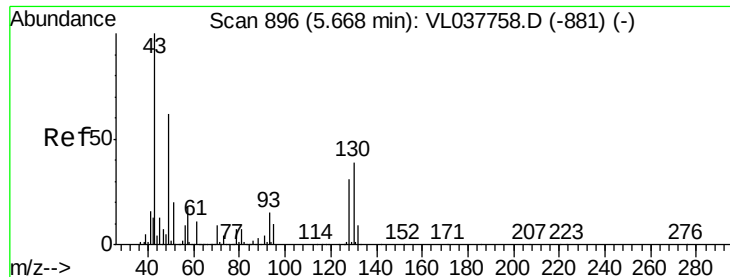
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 04 17:43:54 2021  
QLast Update : Mon Oct 04 17:43:54 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL037783.D

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Instrument :

MSVOA\_L

ClientSampleId :

C0P07DL

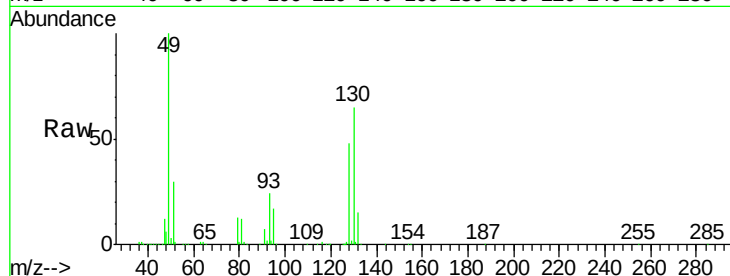
Tgt Ion: 49 Resp: 1271002

Ion Ratio Lower Upper

49 100

128 53.1 27.1 81.3

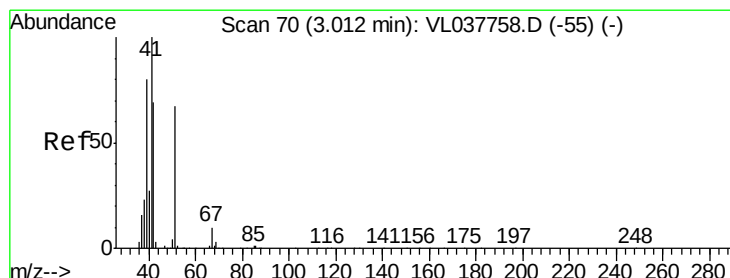
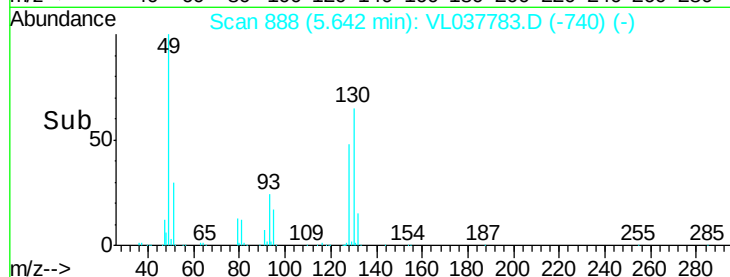
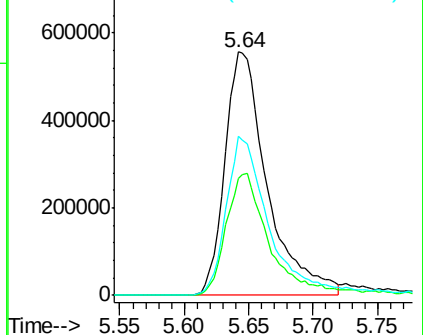
130 66.9 33.2 99.6



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: 0.030 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL037783.D

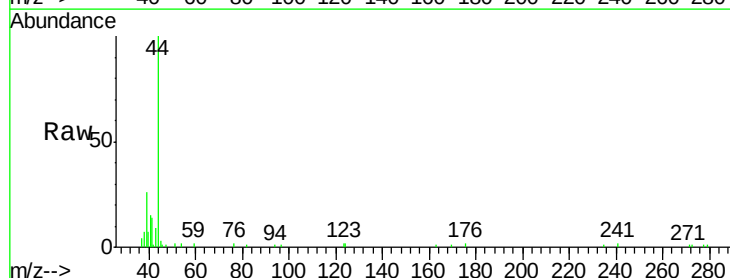
Acq: 5 Oct 2021 21:15

Tgt Ion: 41 Resp: 2714

Ion Ratio Lower Upper

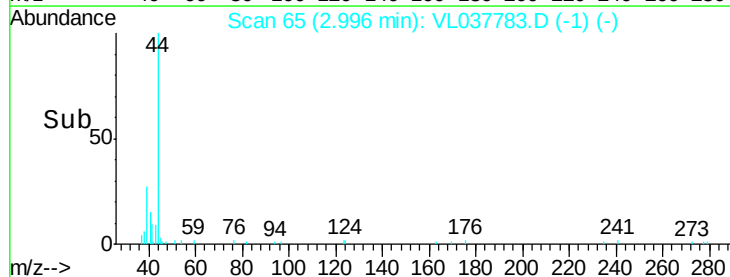
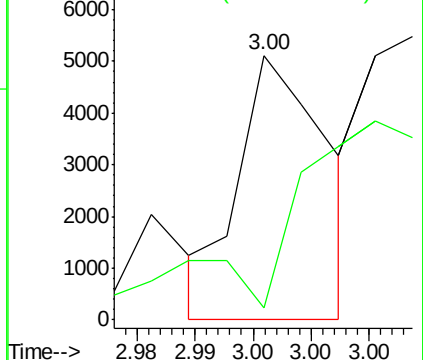
41 100

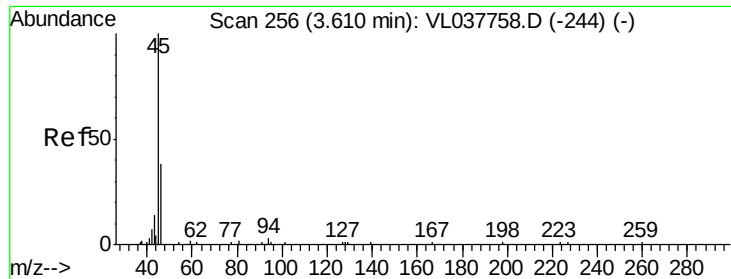
42 0.0 54.2 81.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

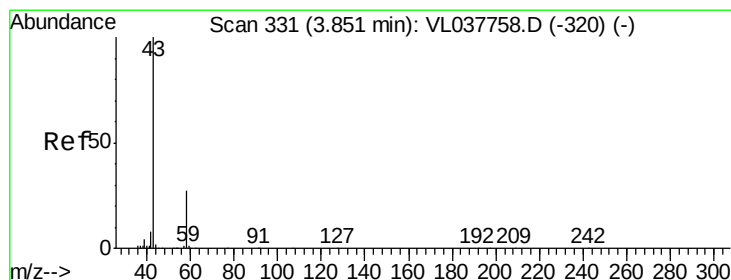
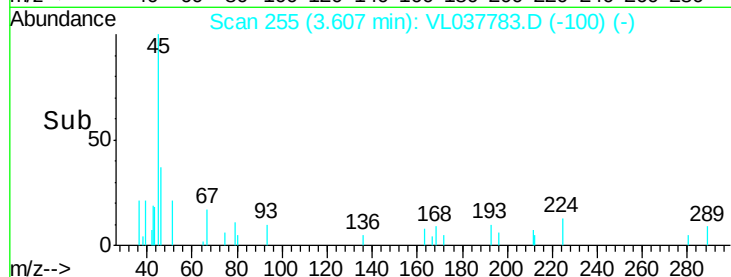
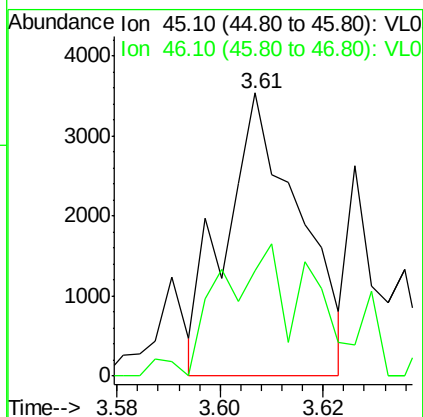
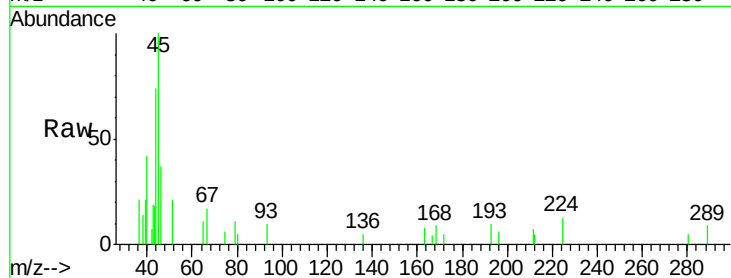




#13  
Ethanol  
Concen: 0.483 ppbv  
RT: 3.61 min Scan# 255  
Delta R.T. -0.00 min  
Lab File: VL037783.D  
Acq: 5 Oct 2021 21:15

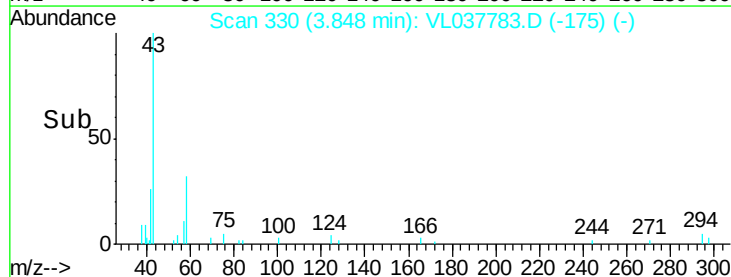
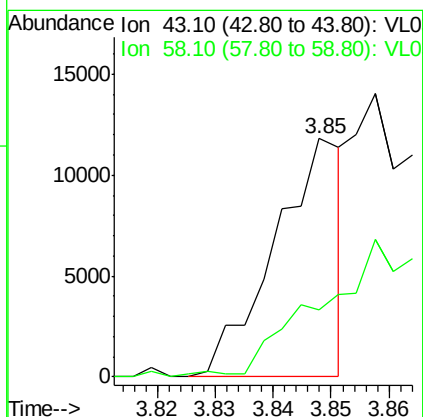
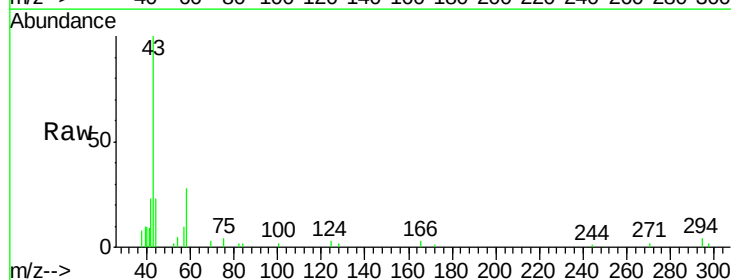
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P07DL

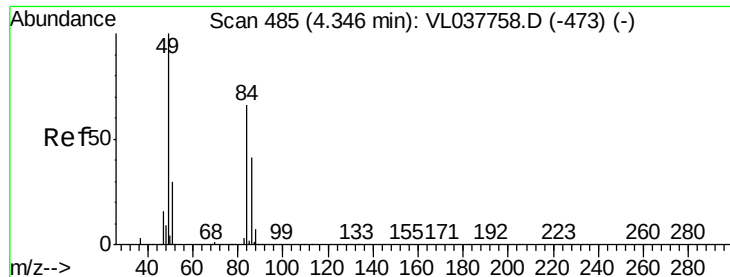
Tgt Ion: 45 Resp: 3549  
Ion Ratio Lower Upper  
45 100  
46 62.1 20.2 81.0



#15  
Acetone  
Concen: 0.085 ppbv  
RT: 3.85 min Scan# 330  
Delta R.T. -0.00 min  
Lab File: VL037783.D  
Acq: 5 Oct 2021 21:15

Tgt Ion: 43 Resp: 9707  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.0 34.6#

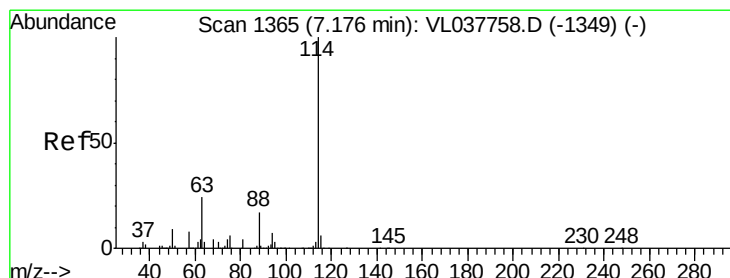
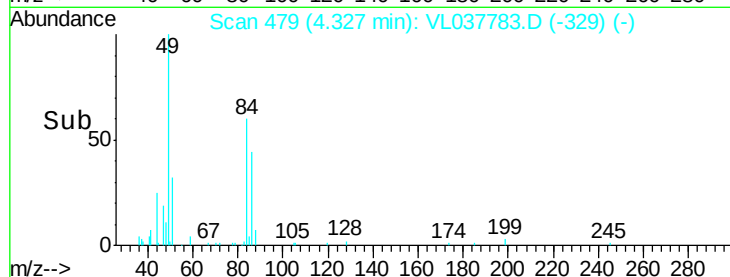
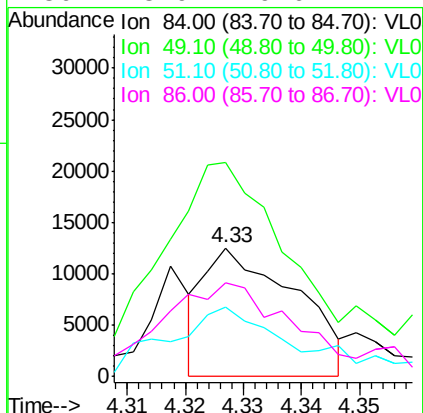
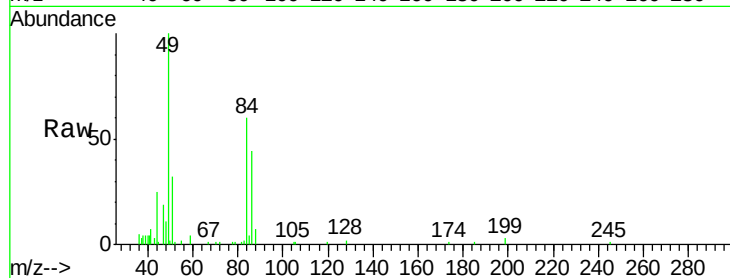




#20  
Methylene Chloride  
Concen: 0.235 ppbv  
RT: 4.33 min Scan# 479  
Delta R.T. -0.02 min  
Lab File: VL037783.D  
Acq: 5 Oct 2021 21:15

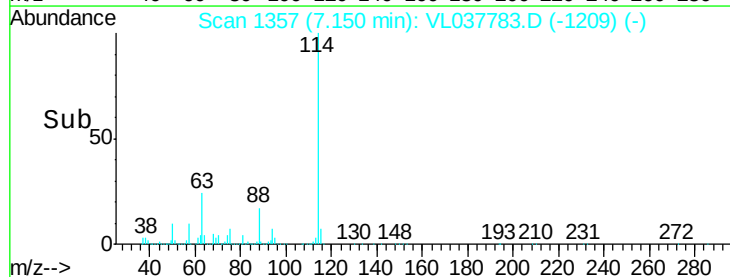
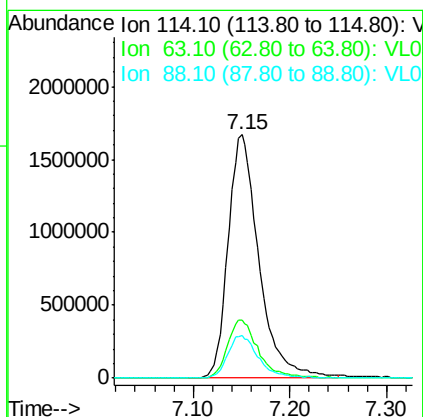
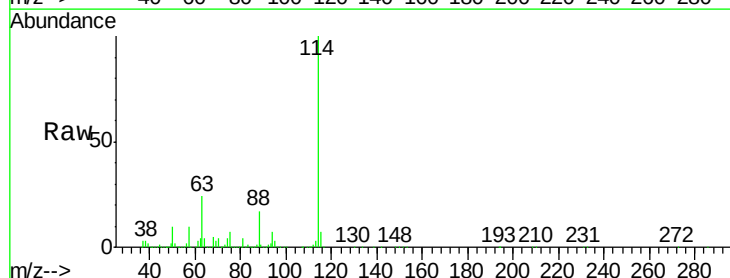
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P07DL

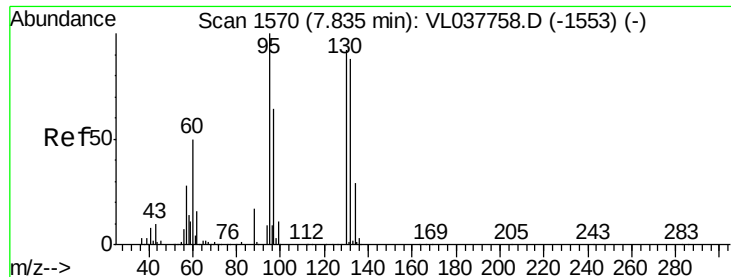
Tgt Ion: 84 Resp: 13557  
Ion Ratio Lower Upper  
84 100  
49 173.8 120.7 181.1  
51 41.8 36.2 54.4  
86 78.9 49.6 74.4#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.15 min Scan# 1357  
Delta R.T. -0.03 min  
Lab File: VL037783.D  
Acq: 5 Oct 2021 21:15

Tgt Ion: 114 Resp: 3698954  
Ion Ratio Lower Upper  
114 100  
63 24.0 19.4 29.2  
88 17.6 14.4 21.6





#38

Trichloroethene

Concen: 0.085 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.03 min

Lab File: VL037783.D

Acq: 5 Oct 2021 21:15

Instrument :

MSVOA\_L

ClientSampleId :

C0P07DL

Tgt Ion:130 Resp: 10607

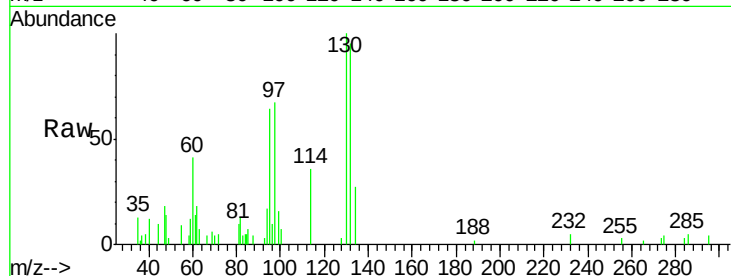
Ion Ratio Lower Upper

130 100

95 26.8 87.4 131.0#

132 64.0 76.8 115.2#

97 50.7 55.8 83.8#

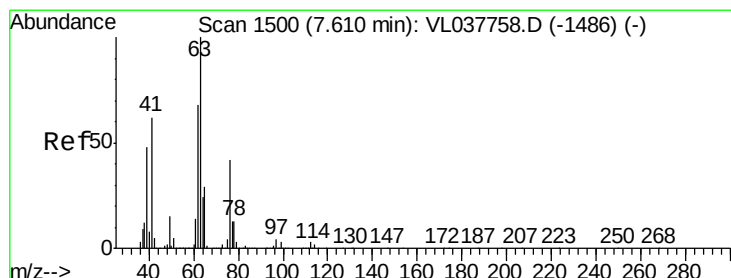
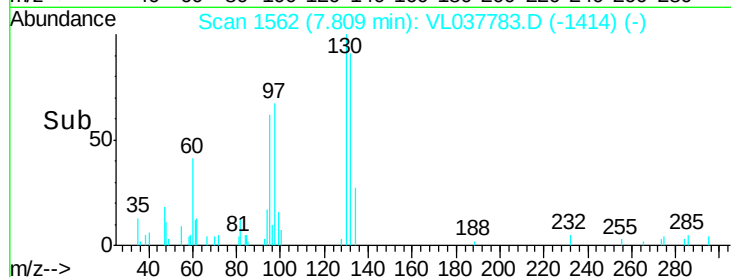
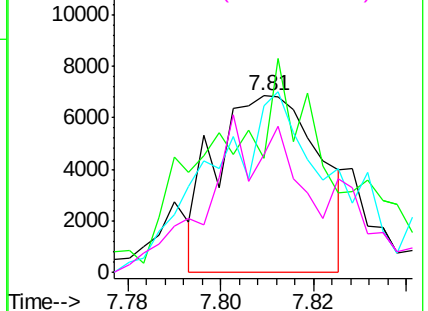


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.408 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.46 min

Lab File: VL037783.D

Acq: 5 Oct 2021 21:15

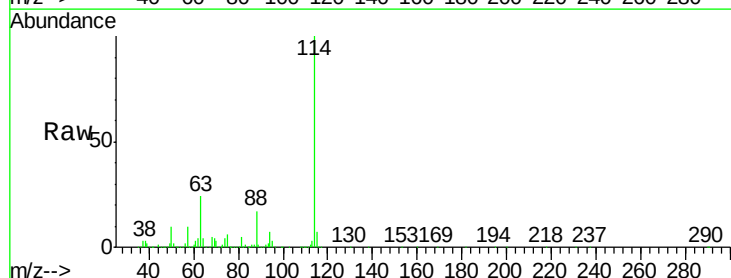
Tgt Ion: 63 Resp: 880349

Ion Ratio Lower Upper

63 100

41 0.1 49.8 74.6#

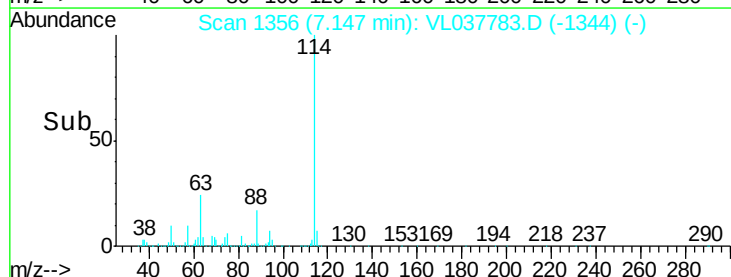
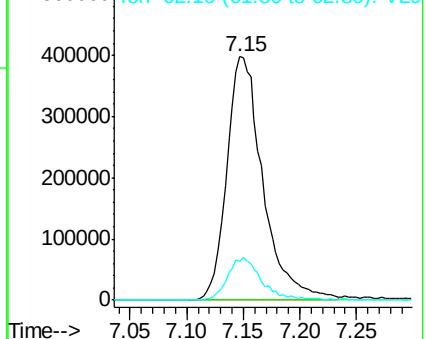
62 15.8 54.6 82.0#

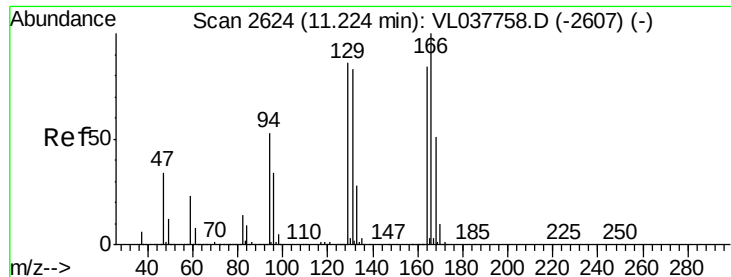


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 12.013 ppbv

RT: 11.19 min Scan# 2615

Delta R.T. -0.03 min

Lab File: VL037783.D

Acq: 5 Oct 2021 21:15

Instrument :

MSVOA\_L

ClientSampleId :

C0P07DL

Tgt Ion:164 Resp: 1476671

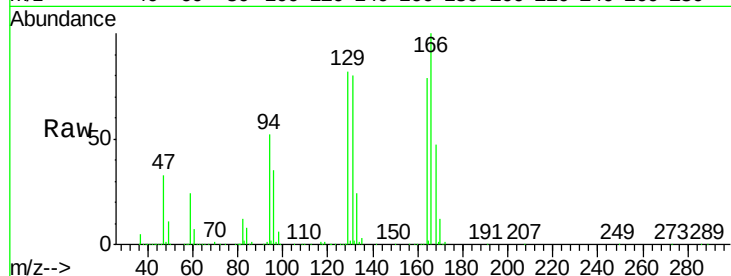
Ion Ratio Lower Upper

164 100

166 127.3 95.4 143.2

129 104.8 82.2 123.4

131 101.3 79.4 119.2

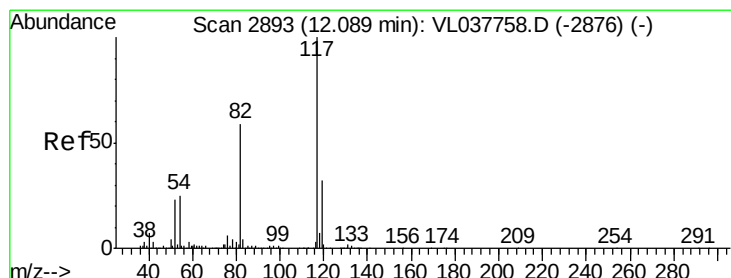
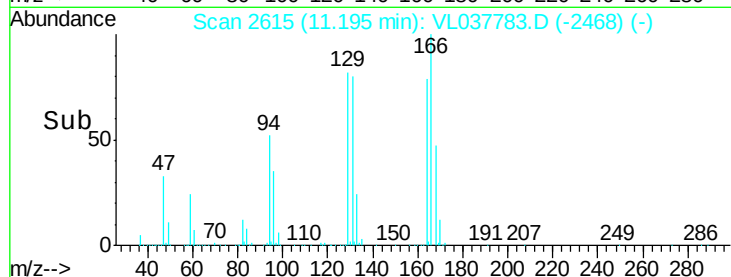
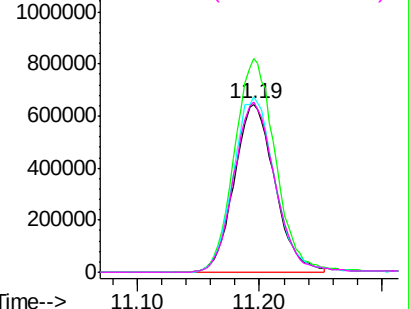


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.03 min

Lab File: VL037783.D

Acq: 5 Oct 2021 21:15

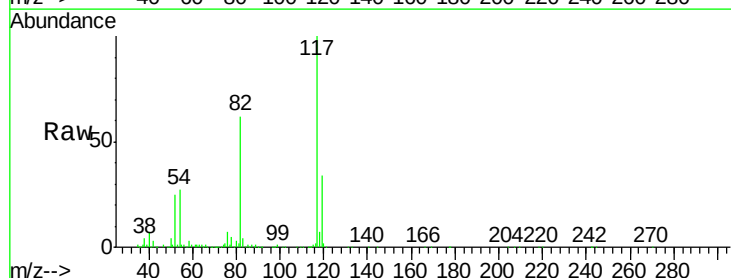
Tgt Ion:117 Resp: 3166007

Ion Ratio Lower Upper

117 100

82 64.5 52.2 78.2

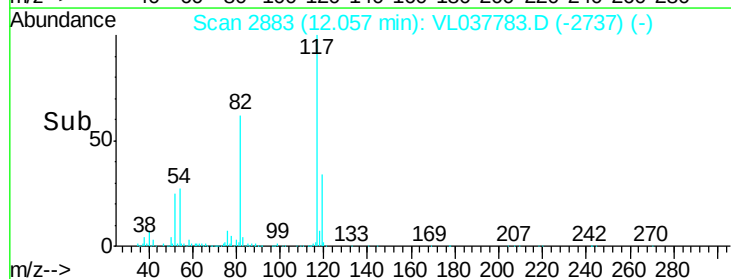
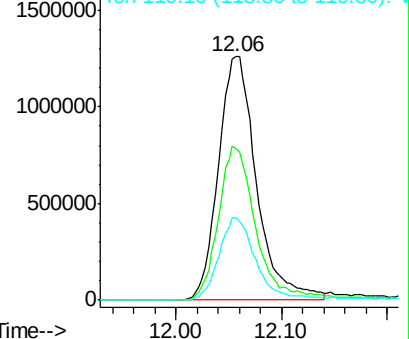
119 33.7 26.0 39.0

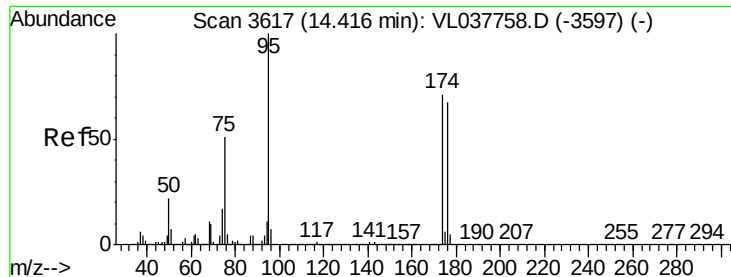


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 5.063 ppbv  
 RT: 14.38 min Scan# 3607  
 Delta R.T. -0.03 min  
 Lab File: VL037783.D  
 Acq: 5 Oct 2021 21:15

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P07DL

Tgt Ion: 95 Resp: 1121030  
 Ion Ratio Lower Upper  
 95 100  
 174 146.5 57.8 86.6#  
 175 10.4 4.7 7.1#

