

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100721\  
 Data File : VL037819.D  
 Acq On : 8 Oct 2021 6:14  
 Operator : SY/AP  
 Sample : M4079-03DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P13DL

Quant Time: Oct 08 10:10:37 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   | 5.66  | 49   | 1451186  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4115242  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3602202  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2517792  | 10.00    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.00% |

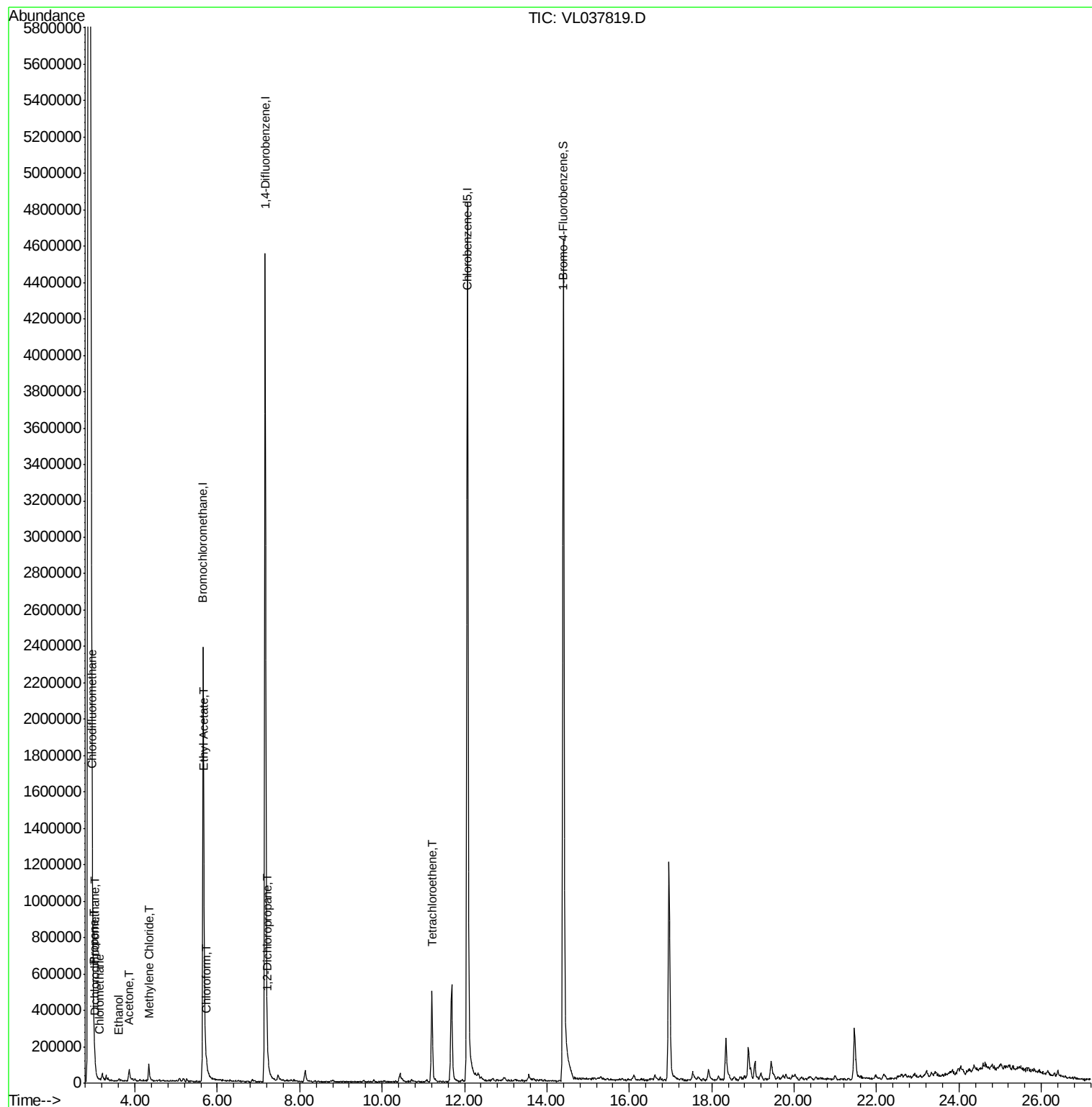
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.04  | 85   | 10652    | 0.046 | ppbv   | 100    |
| 3) Chlorodifluoromethane   | 2.97  | 51   | 7983     | 0.029 | ppbv   | 98     |
| 4) Chloromethane           | 3.13  | 50   | 2372     | 0.023 | ppbv # | 62     |
| 9) Propene                 | 3.01  | 41   | 6918     | 0.067 | ppbv # | 9      |
| 13) Ethanol                | 3.60  | 45   | 1257     | 0.150 | ppbv # | 27     |
| 15) Acetone                | 3.86  | 43   | 80687    | 0.619 | ppbv # | 82     |
| 20) Methylene Chloride     | 4.33  | 84   | 33562    | 0.510 | ppbv # | 80     |
| 25) Ethyl Acetate          | 5.68  | 43   | 14432    | 0.039 | ppbv # | 86     |
| 29) Chloroform             | 5.74  | 83   | 10706    | 0.042 | ppbv   | 97     |
| 39) 1,2-Dichloropropane    | 7.22  | 63   | 12816    | 0.097 | ppbv # | 26     |
| 52) Tetrachloroethene      | 11.21 | 164  | 136314   | 0.997 | ppbv   | 96     |

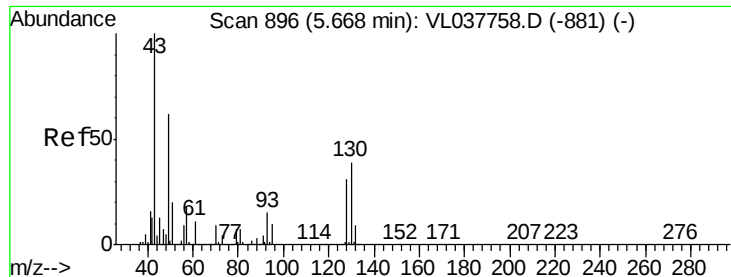
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 04 17:43:54 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL037819.D

Acq: 8 Oct 2021 6:14

Instrument :

MSVOA\_L

ClientSampleId :

C0P13DL

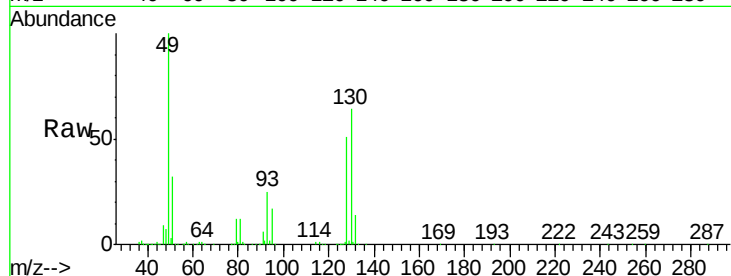
Tgt Ion: 49 Resp: 1451186

Ion Ratio Lower Upper

49 100

128 51.3 27.1 81.3

130 65.5 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

800000

600000

400000

200000

0

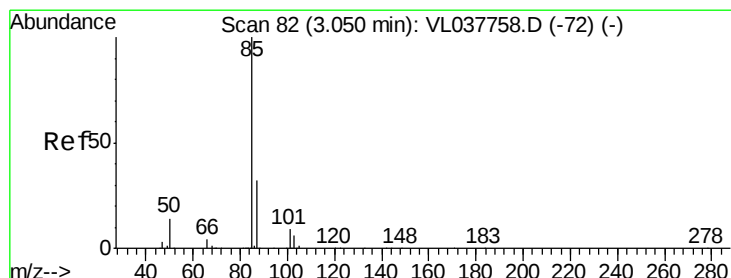
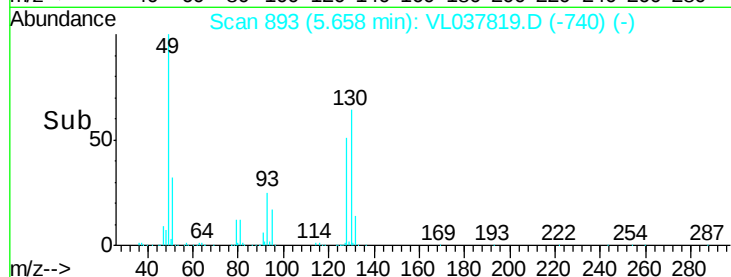
5.66

5.60

5.70

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037819.D

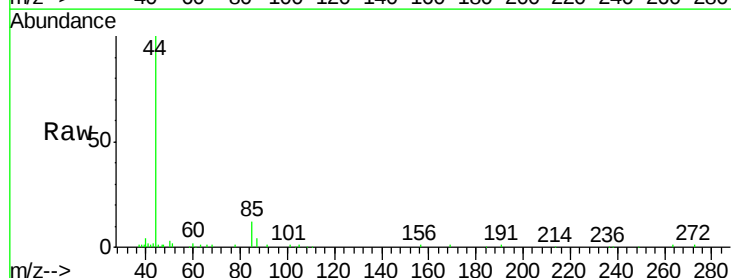
Acq: 8 Oct 2021 6:14

Tgt Ion: 85 Resp: 10652

Ion Ratio Lower Upper

85 100

87 31.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

8000

6000

4000

2000

0

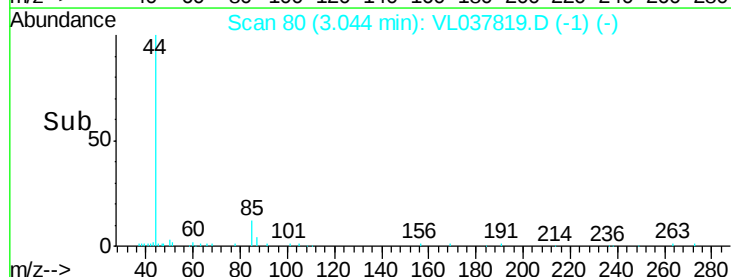
3.04

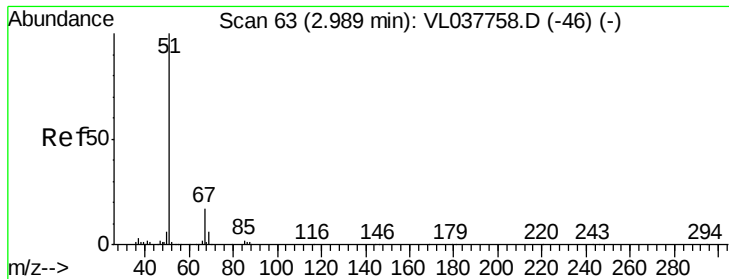
3.00

3.02

3.06

Time-->





#3

Chlorodifluoromethane

Concen: 0.029 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL037819.D

Acq: 8 Oct 2021 6:14

Instrument :

MSVOA\_L

ClientSampleId :

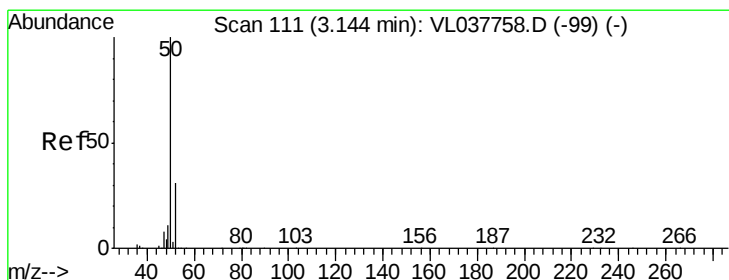
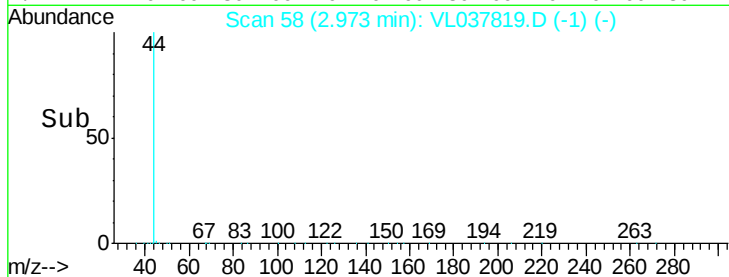
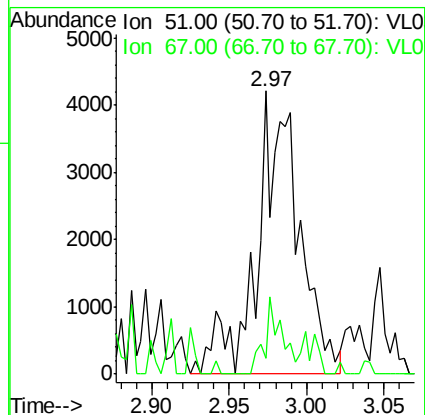
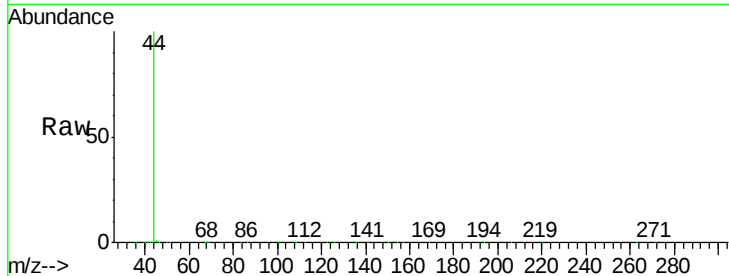
C0P13DL

Tgt Ion: 51 Resp: 7983

Ion Ratio Lower Upper

51 100

67 16.0 13.5 20.3



#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037819.D

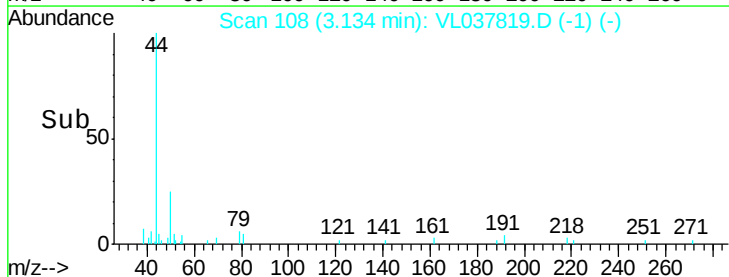
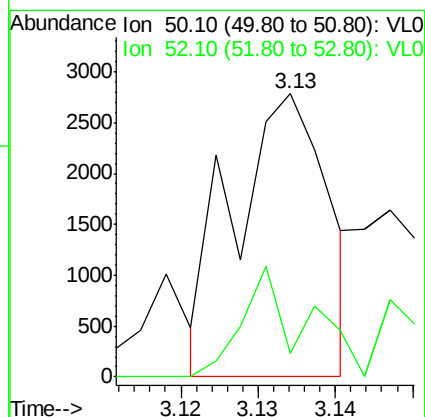
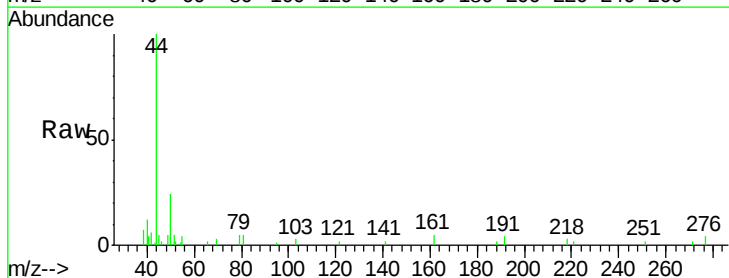
Acq: 8 Oct 2021 6:14

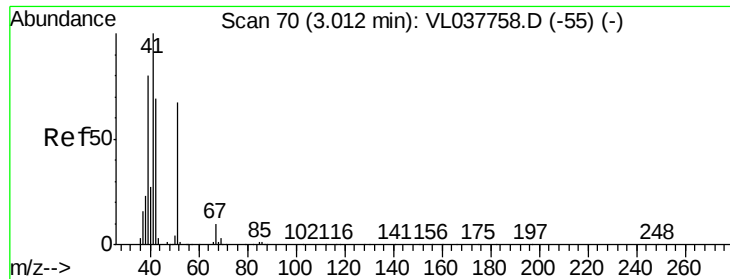
Tgt Ion: 50 Resp: 2372

Ion Ratio Lower Upper

50 100

52 10.0 24.4 36.6#





#9

Propene

Concen: 0.067 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037819.D

Acq: 8 Oct 2021 6:14

Instrument :

MSVOA\_L

ClientSampleId :

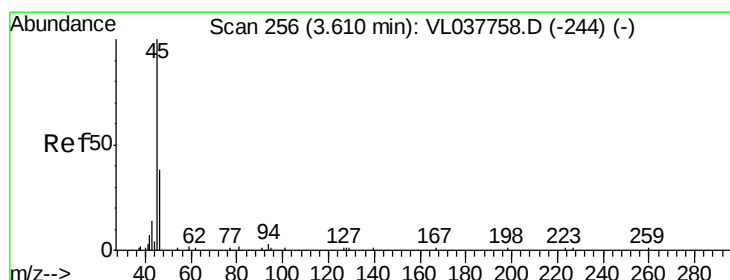
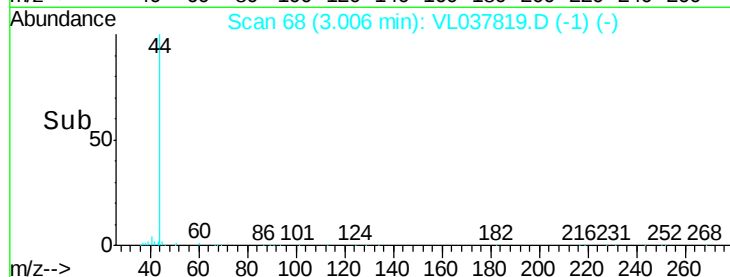
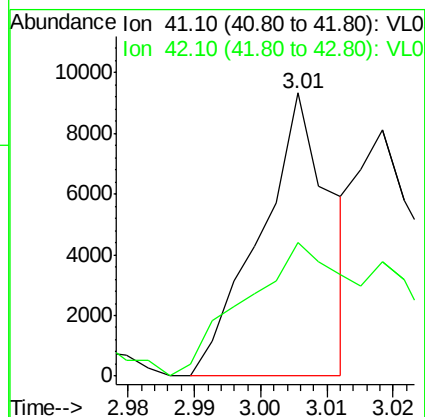
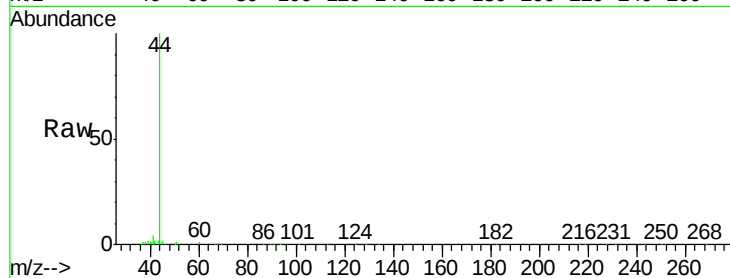
C0P13DL

Tgt Ion: 41 Resp: 6918

Ion Ratio Lower Upper

41 100

42 141.0 54.2 81.2#



#13

Ethanol

Concen: 0.150 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL037819.D

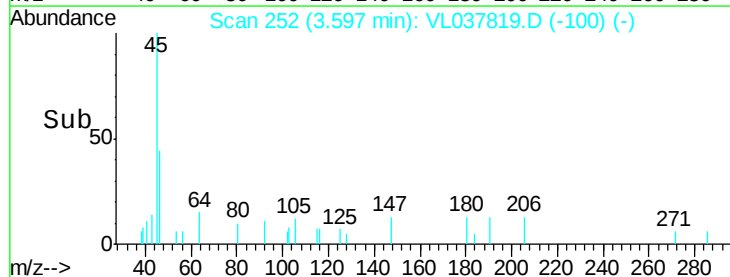
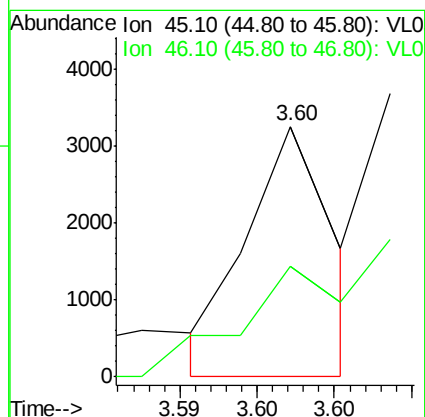
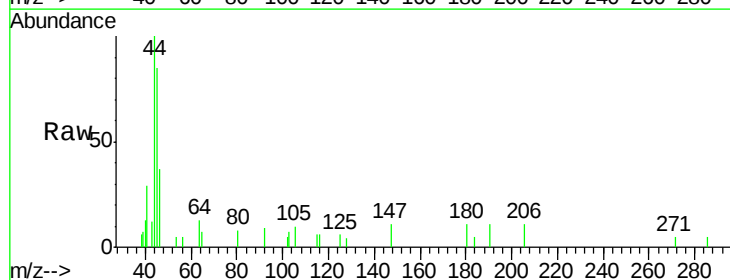
Acq: 8 Oct 2021 6:14

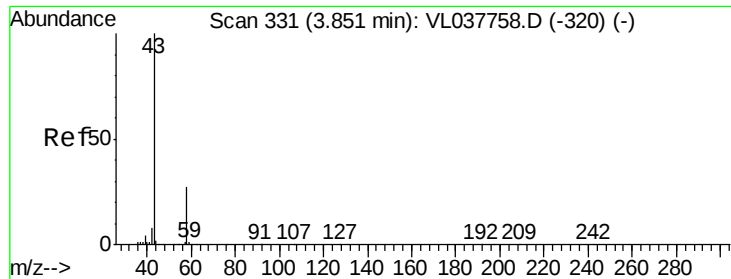
Tgt Ion: 45 Resp: 1257

Ion Ratio Lower Upper

45 100

46 0.0 20.2 81.0#

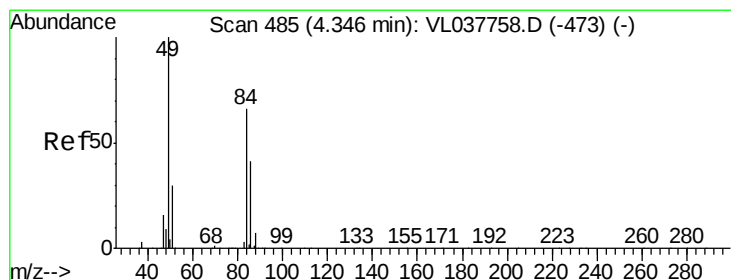
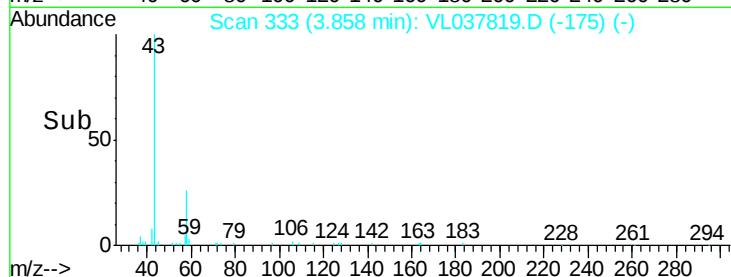
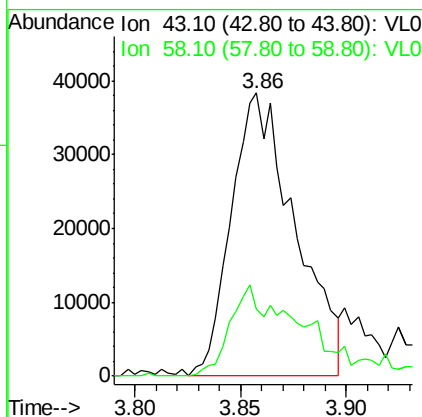
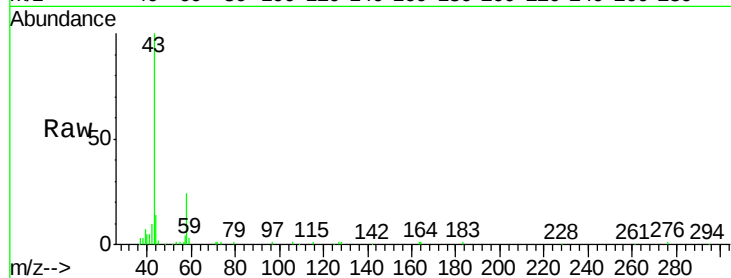




#15  
Acetone  
Concen: 0.619 ppbv  
RT: 3.86 min Scan# 333  
Delta R.T. 0.01 min  
Lab File: VL037819.D  
Acq: 8 Oct 2021 6:14

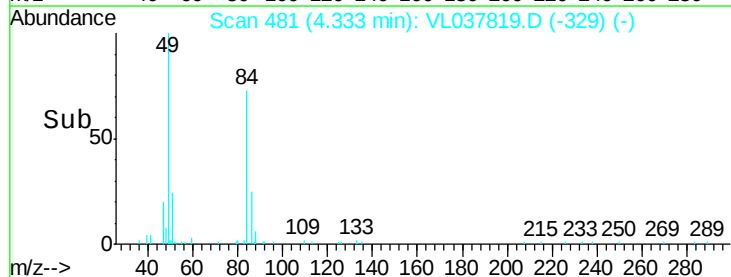
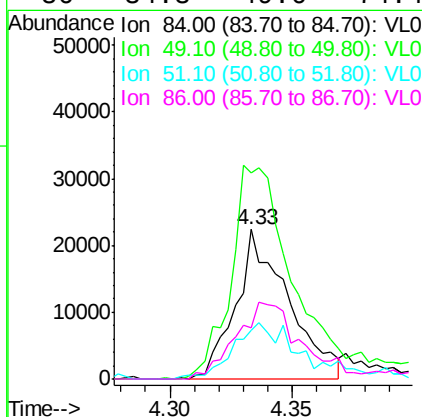
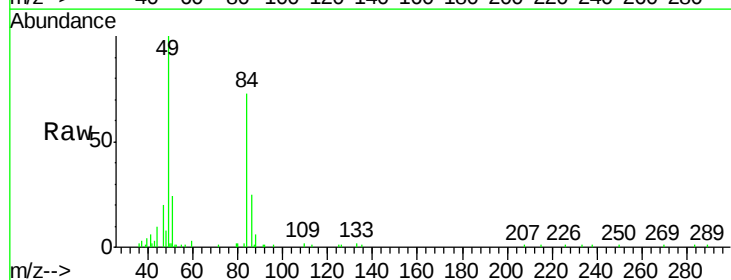
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P13DL

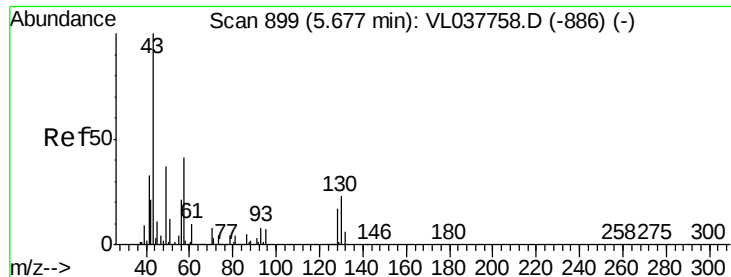
Tgt Ion: 43 Resp: 80687  
Ion Ratio Lower Upper  
43 100  
58 38.6 23.0 34.6#



#20  
Methylene Chloride  
Concen: 0.510 ppbv  
RT: 4.33 min Scan# 481  
Delta R.T. -0.01 min  
Lab File: VL037819.D  
Acq: 8 Oct 2021 6:14

Tgt Ion: 84 Resp: 33562  
Ion Ratio Lower Upper  
84 100  
49 136.0 120.7 181.1  
51 29.4 36.2 54.4#  
86 34.3 49.6 74.4#





#25

Ethyl Acetate

Concen: 0.039 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL037819.D

Acq: 8 Oct 2021 6:14

Instrument :

MSVOA\_L

ClientSampleId :

C0P13DL

Tgt Ion: 43 Resp: 14432

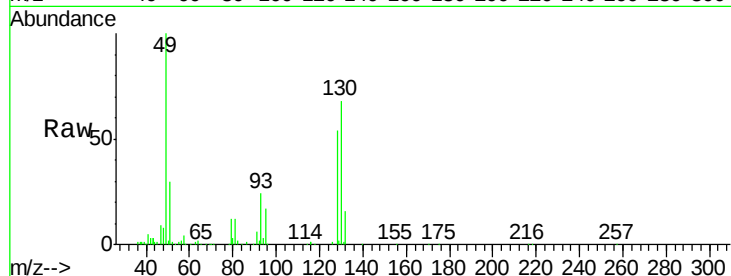
Ion Ratio Lower Upper

43 100

45 11.3 8.1 12.1

61 0.0 7.5 11.3#

70 3.0 5.9 8.9#

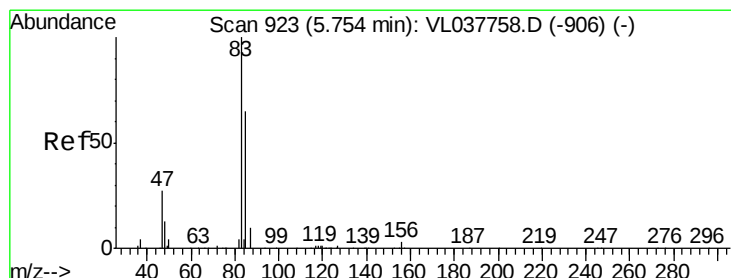
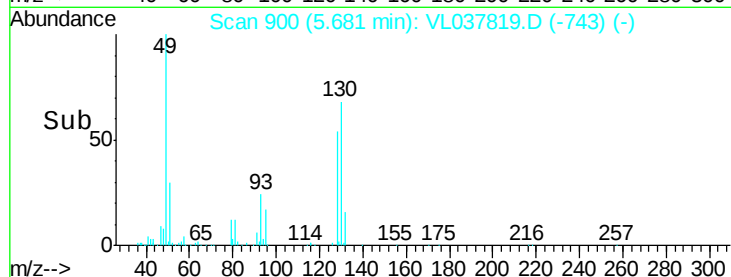
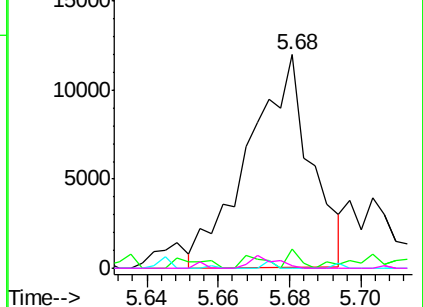


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#29

Chloroform

Concen: 0.042 ppbv

RT: 5.74 min Scan# 919

Delta R.T. -0.01 min

Lab File: VL037819.D

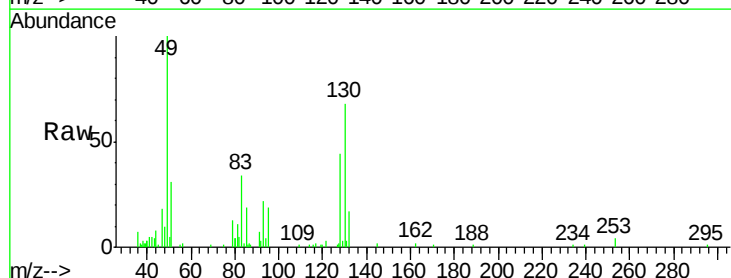
Acq: 8 Oct 2021 6:14

Tgt Ion: 83 Resp: 10706

Ion Ratio Lower Upper

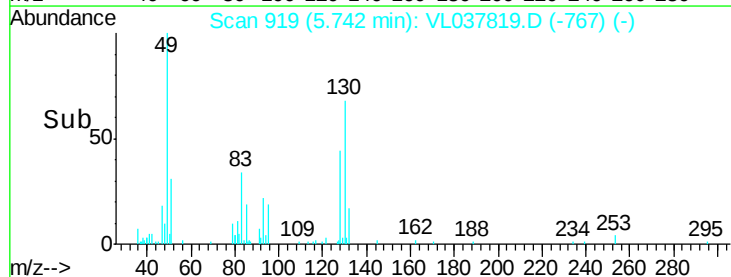
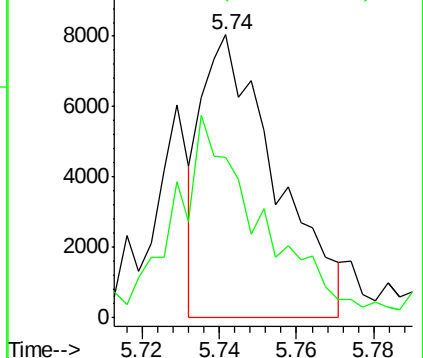
83 100

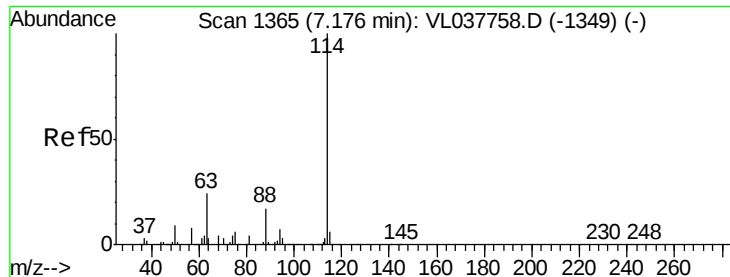
85 62.8 51.8 77.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

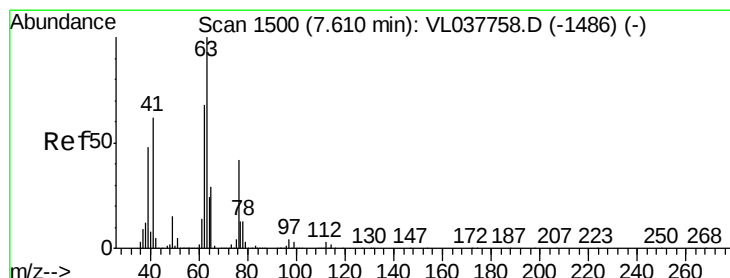
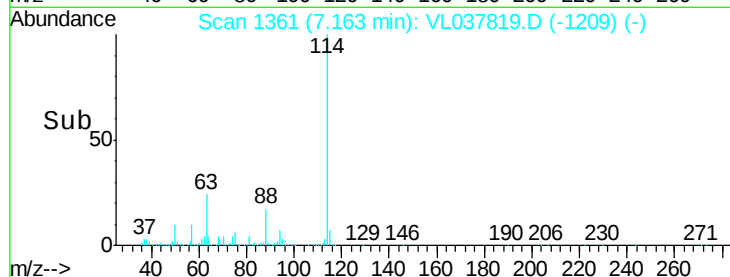
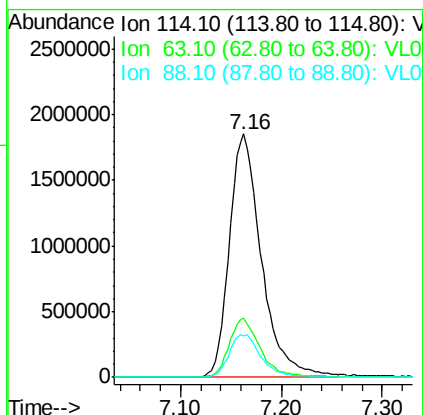
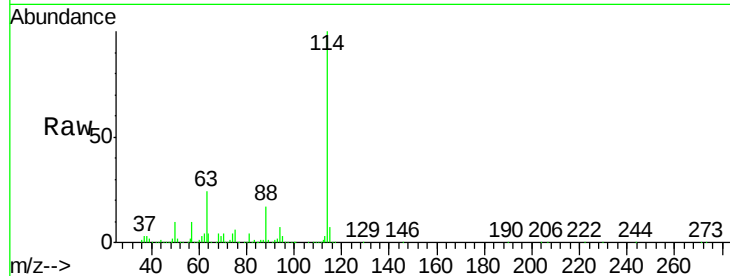




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1361  
 Delta R.T. -0.01 min  
 Lab File: VL037819.D  
 Acq: 8 Oct 2021 6:14

Instrument :  
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 C0P13DL

Tgt Ion: 114 Resp: 4115242  
 Ion Ratio Lower Upper  
 114 100  
 63 23.8 19.4 29.2  
 88 17.9 14.4 21.6



#39  
 1,2-Dichloropropane  
 Concen: 0.097 ppbv  
 RT: 7.22 min Scan# 1380  
 Delta R.T. -0.39 min  
 Lab File: VL037819.D  
 Acq: 8 Oct 2021 6:14

Tgt Ion: 63 Resp: 12816  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 49.8 74.6#  
 62 13.8 54.6 82.0#

