

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\  
 Data File : VL036510.D  
 Acq On : 26 Mar 2021 12:15  
 Operator : SY/AP  
 Sample : M1748-38DL2 40X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Mar 27 03:28:06 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 09:42:40 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1500685  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 3426821  | 10.00 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 3013741  | 10.00 | ppbv  | 0.03     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|--------|----------|
| 68) 1-Bromo-4-Fluorobenzene |        | 14.45 | 95       | 2353249  | 9.80 | ppbv   | 0.03     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.00% |          |

| Target Compounds         | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------|-------|------|----------|--------|--------|--------|
| 3) Chlorodifluoromethane | 3.00  | 51   | 7059     | 0.025  | ppbv # | 87     |
| 9) Propene               | 3.04  | 41   | 10392    | 0.116  | ppbv   | 83     |
| 13) Ethanol              | 3.63  | 45   | 17162    | 1.612  | ppbv # | 1      |
| 15) Acetone              | 3.88  | 43   | 85584    | 0.579  | ppbv # | 57     |
| 20) Methylene Chloride   | 4.37  | 84   | 117881   | 1.705  | ppbv   | 97     |
| 25) Ethyl Acetate        | 5.71  | 43   | 45322    | 0.129  | ppbv # | 79     |
| 26) Hexane               | 5.71  | 57   | 92353    | 0.567  | ppbv # | 45     |
| 29) Chloroform           | 5.77  | 83   | 192158   | 0.737  | ppbv   | 91     |
| 38) Trichloroethene      | 7.86  | 130  | 1393752  | 11.332 | ppbv   | 98     |
| 39) 1,2-Dichloropropane  | 7.20  | 63   | 929282   | 7.248  | ppbv # | 25     |
| 52) Tetrachloroethene    | 11.28 | 164  | 3089     | 0.027  | ppbv # | 68     |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Instrument :  
MSVOA\_L  
ClientSampleId :

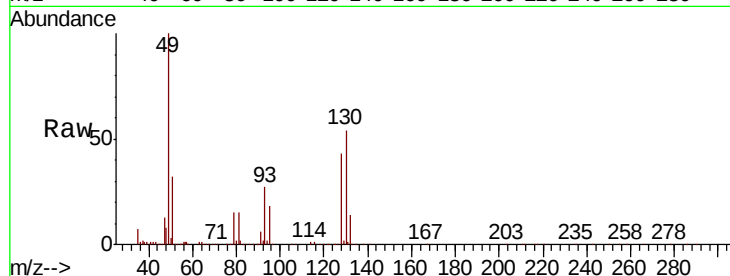
Tot Ion: 49 Resp: 1500685

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 44.8  | 23.5  | 70.6  |
| 130 | 57.9  | 29.1  | 87.4  |

49 100

128 44.8 23.5 70.6

130 57.9 29.1 87.4



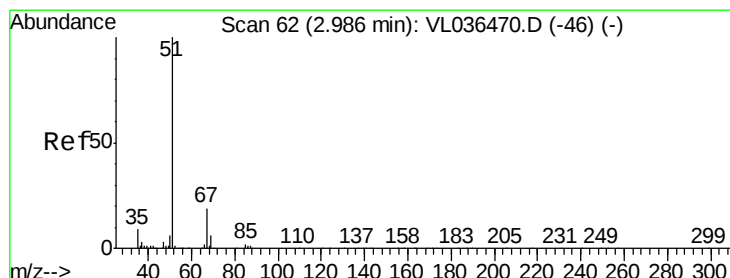
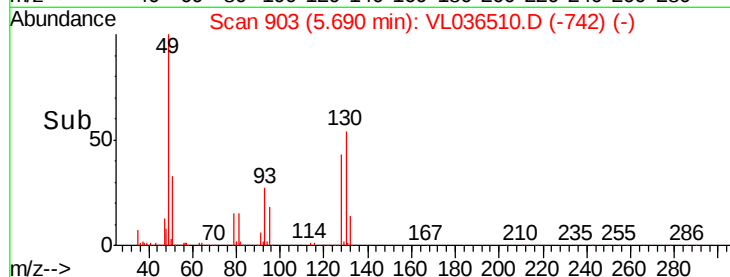
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.69

Time-->



#3

Chlorodifluoromethane

Concen: 0.025 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036510.D

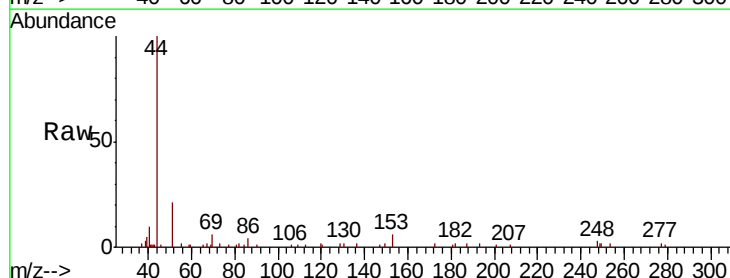
Acq: 26 Mar 2021 12:15

Tgt Ion: 51 Resp: 7059

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 51  | 100   |       |       |
| 67  | 12.6  | 14.7  | 22.1  |

51 100

67 12.6 14.7 22.1

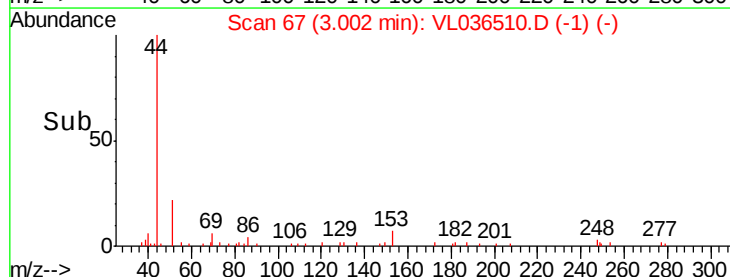


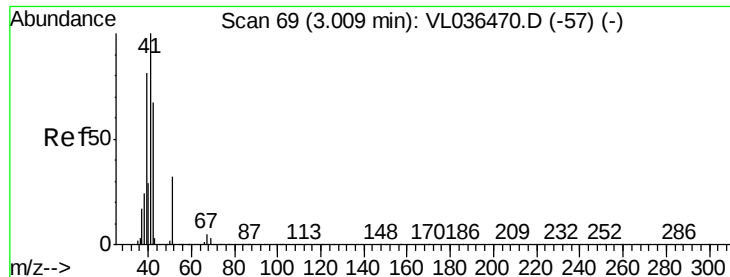
Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.00

Time-->





#9

Propene

Concen: 0.116 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.03 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Instrument :

MSVOA\_L

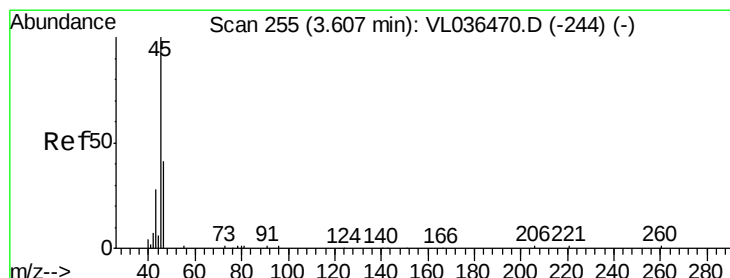
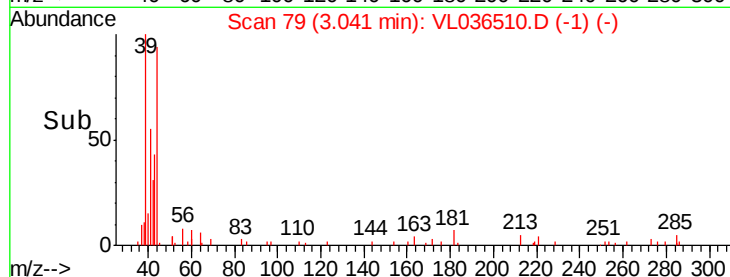
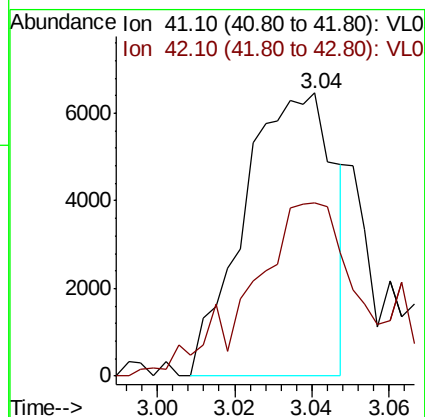
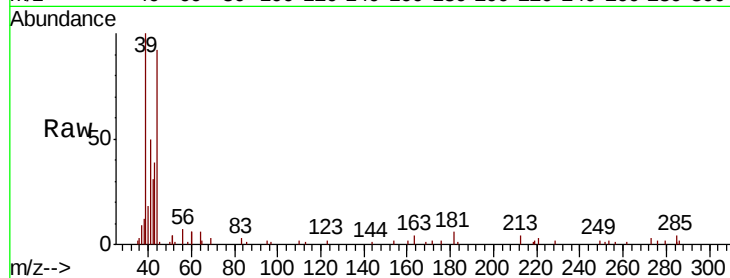
ClientSampleId :

Tot Ion: 41 Resp: 10392

Ion Ratio Lower Upper

41 100

42 85.2 57.0 85.4



#13

Ethanol

Concen: 1.612 ppbv

RT: 3.63 min Scan# 262

Delta R.T. 0.02 min

Lab File: VL036510.D

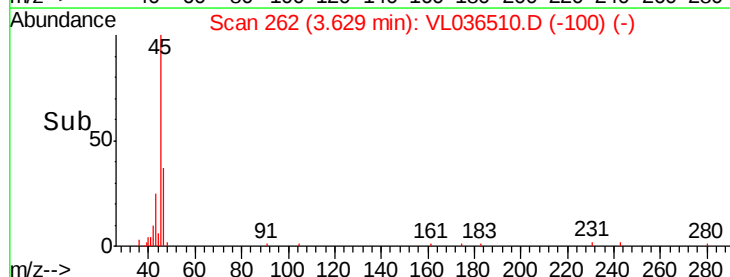
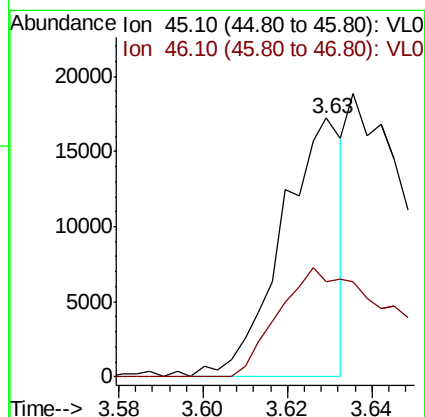
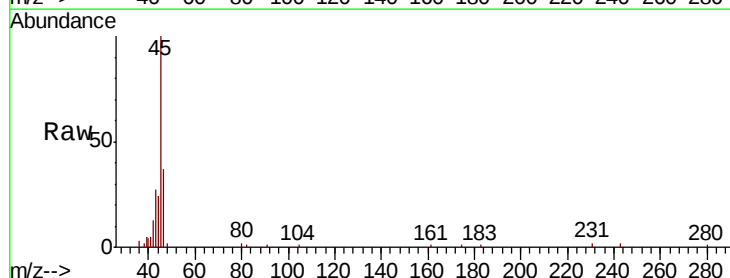
Acq: 26 Mar 2021 12:15

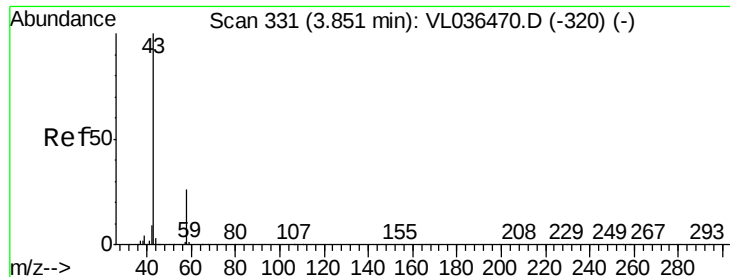
Tgt Ion: 45 Resp: 17162

Ion Ratio Lower Upper

45 100

46 132.8 16.6 66.2#





#15

Acetone

Concen: 0.579 ppbv

RT: 3.88 min Scan# 340

Delta R.T. 0.03 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Instrument :

MSVOA\_L

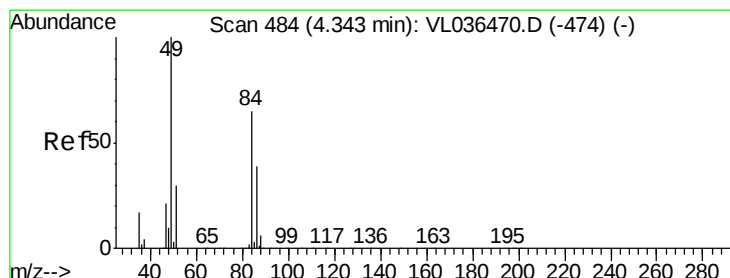
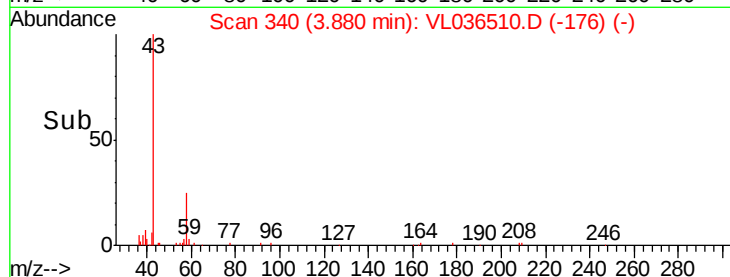
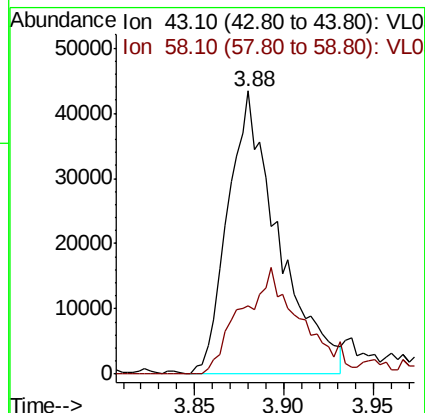
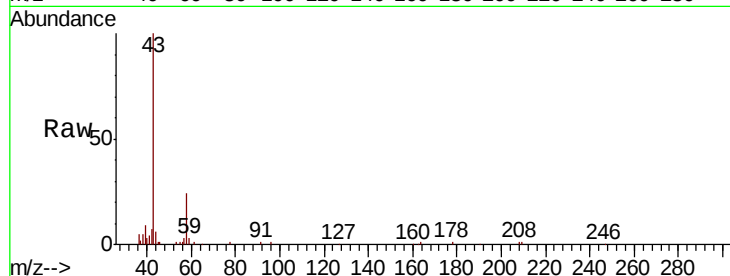
ClientSampleId :

Tot Ion: 43 Resp: 85584

Ion Ratio Lower Upper

43 100

58 48.7 21.2 31.8#



#20

Methylene Chloride

Concen: 1.705 ppbv

RT: 4.37 min Scan# 492

Delta R.T. 0.03 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Tgt Ion: 84 Resp: 117881

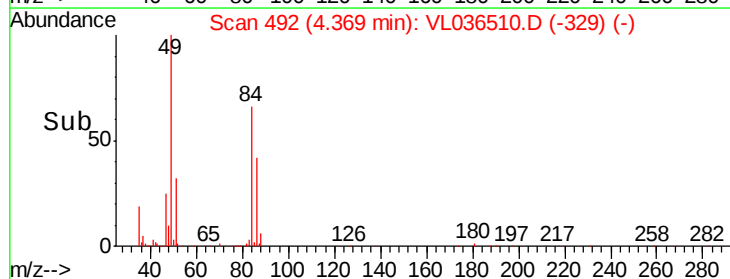
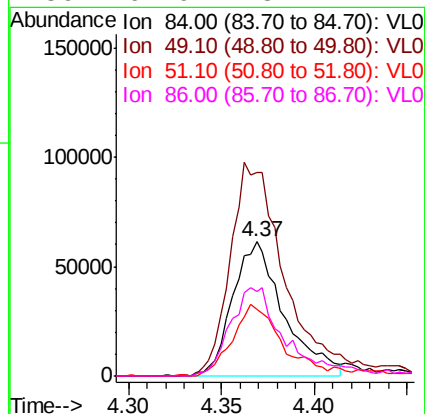
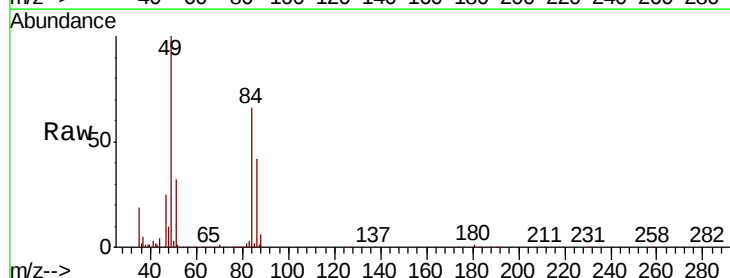
Ion Ratio Lower Upper

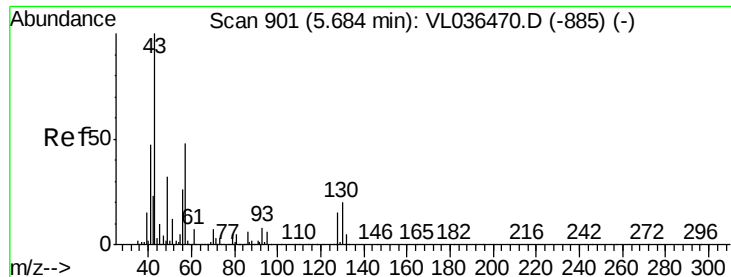
84 100

49 151.6 122.9 184.3

51 50.1 36.9 55.3

86 62.9 48.2 72.4

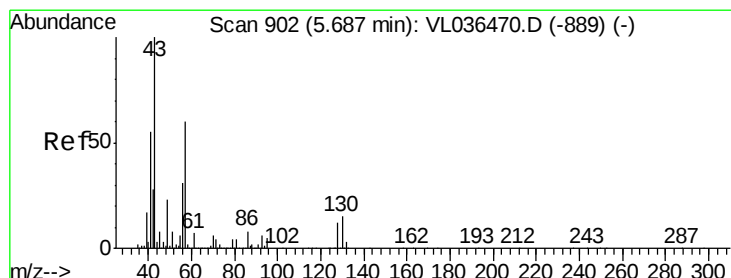
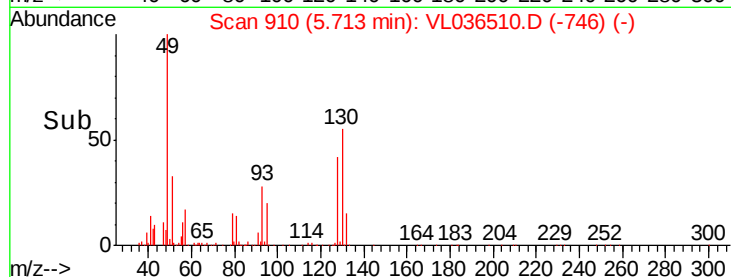
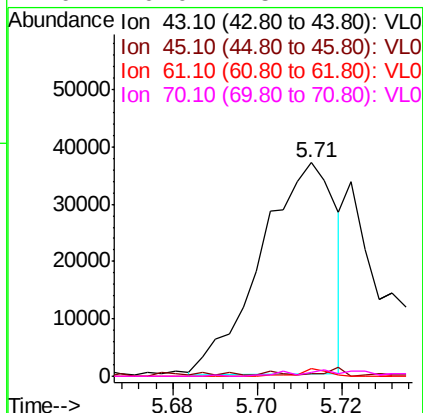
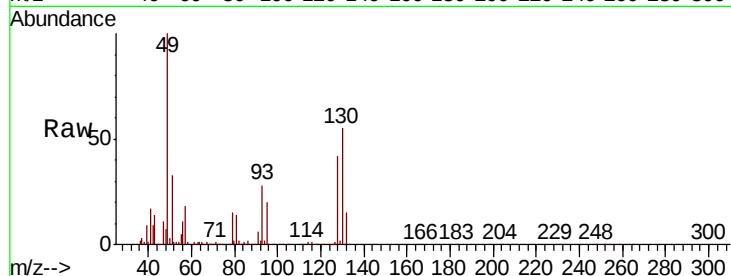




#25  
Ethyl Acetate  
Concen: 0.129 ppbv  
RT: 5.71 min Scan# 910  
Delta R.T. 0.03 min  
Lab File: VL036510.D  
Acq: 26 Mar 2021 12:15

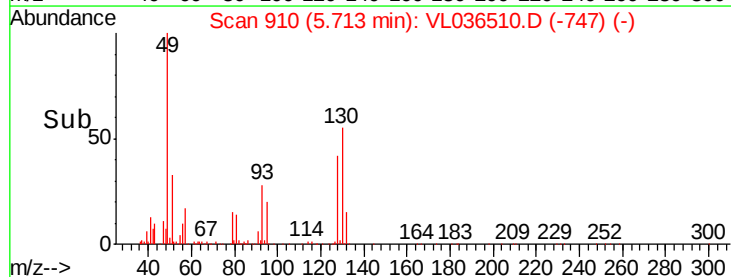
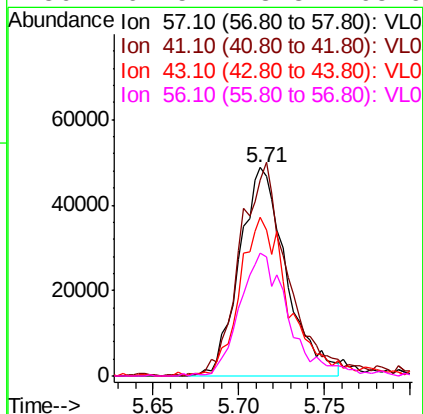
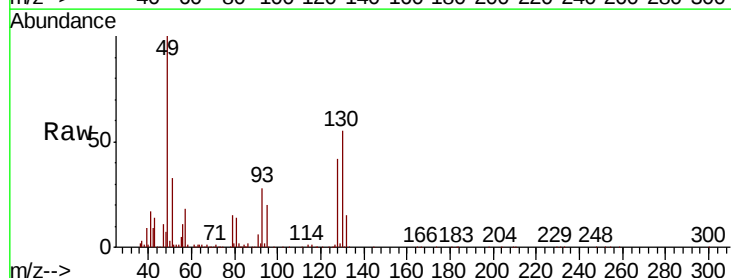
Instrument :  
MSVOA\_L  
ClientSampleId :

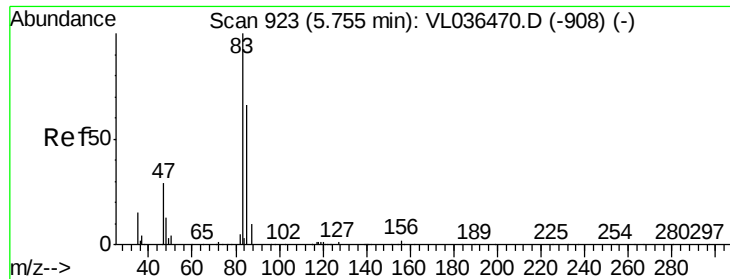
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 45322 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 1.8   | 7.9   | 11.9# |
| 61       | 1.3   | 7.4   | 11.2# |
| 70       | 0.0   | 5.1   | 7.7#  |



#26  
Hexane  
Concen: 0.567 ppbv  
RT: 5.71 min Scan# 910  
Delta R.T. 0.03 min  
Lab File: VL036510.D  
Acq: 26 Mar 2021 12:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 92353  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 110.1 | 77.2  | 115.8  |
| 43       | 83.2  | 173.8 | 260.6# |
| 56       | 62.5  | 43.8  | 65.6   |





#29

Chloroform

Concen: 0.737 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.02 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Instrument :

MSVOA\_L

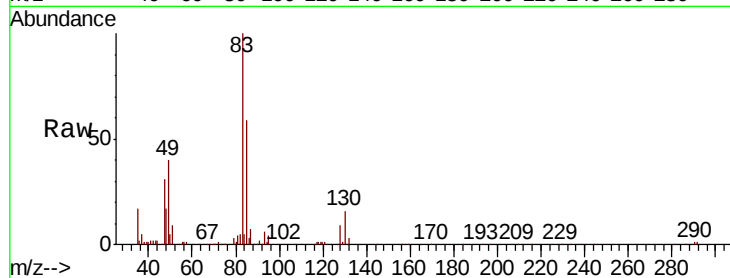
ClientSampleId :

Tot Ion: 83 Resp: 192158

Ion Ratio Lower Upper

83 100

85 58.7 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.77

100000

80000

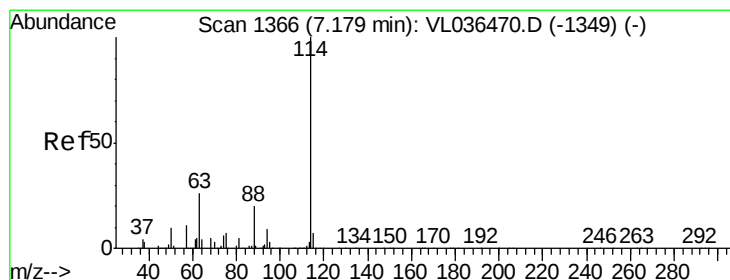
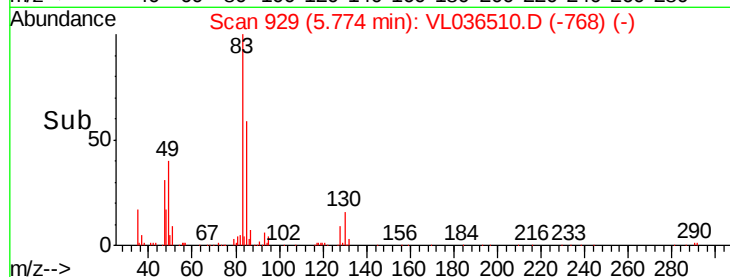
60000

40000

20000

0

Time-->



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. 0.03 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

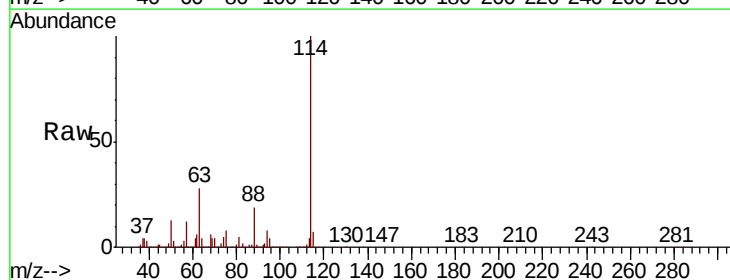
Tgt Ion: 114 Resp: 3426821

Ion Ratio Lower Upper

114 100

63 28.5 22.4 33.6

88 19.5 15.4 23.0



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

7.20

2000000

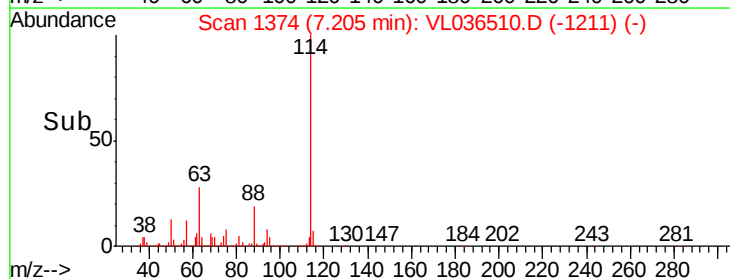
1500000

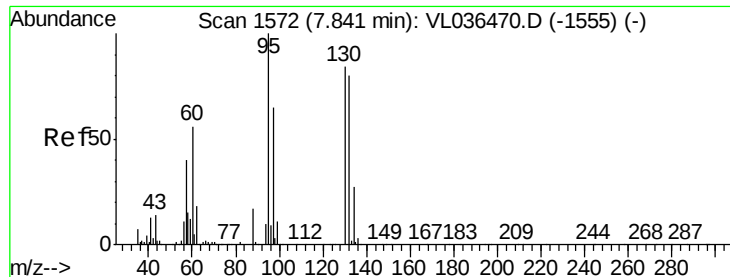
1000000

500000

0

Time-->





#38

Trichloroethene

Concen: 11.332 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:130 Resp: 1393752

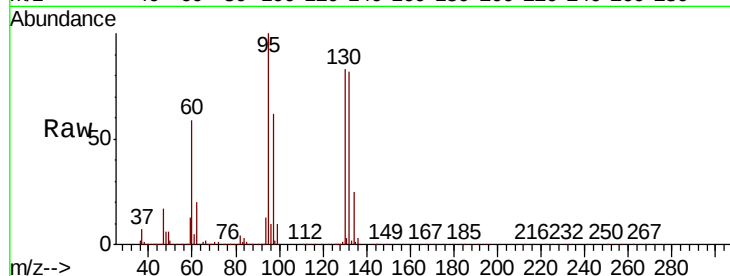
Ion Ratio Lower Upper

130 100

95 120.8 95.7 143.5

132 99.0 76.2 114.4

97 75.4 61.8 92.6

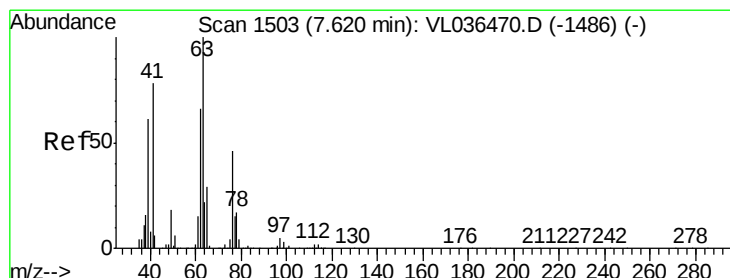
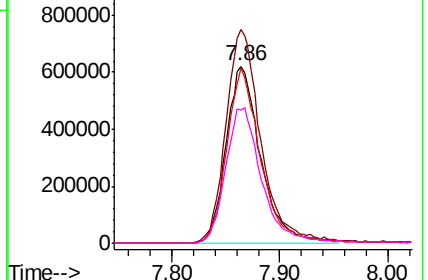
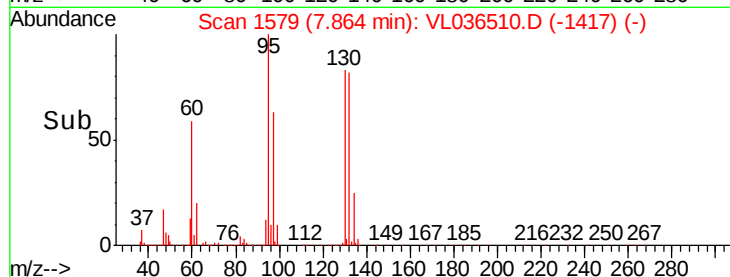


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.248 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.41 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

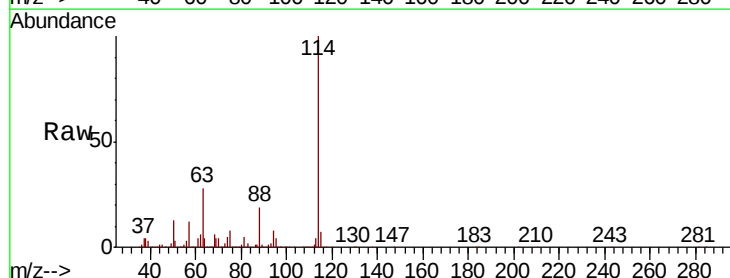
Tgt Ion: 63 Resp: 929282

Ion Ratio Lower Upper

63 100

41 0.1 62.4 93.6#

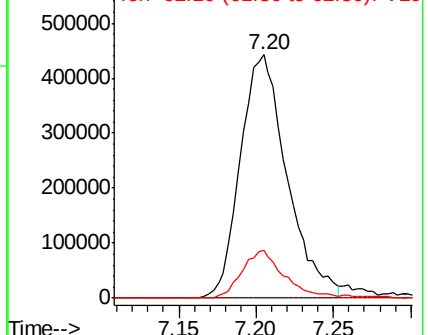
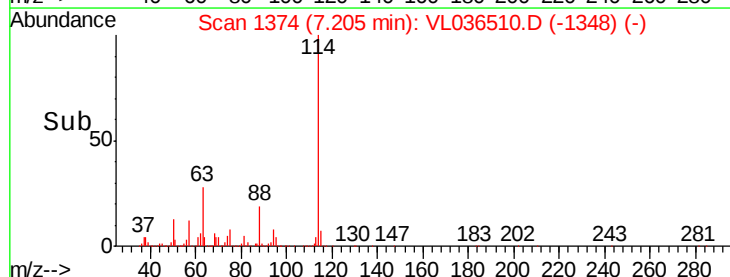
62 19.8 52.8 79.2#

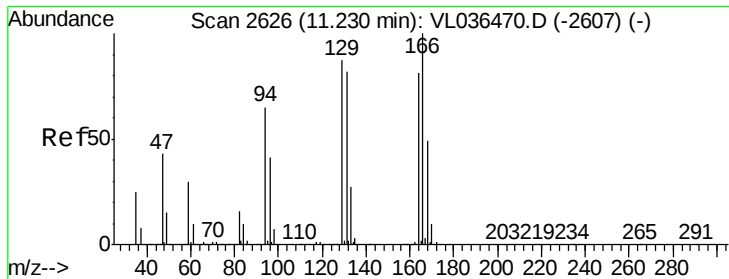


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.027 ppbv

RT: 11.28 min Scan# 2640

Delta R.T. 0.04 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:164 Resp: 3089

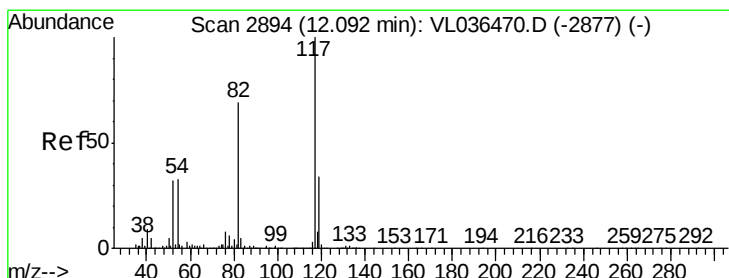
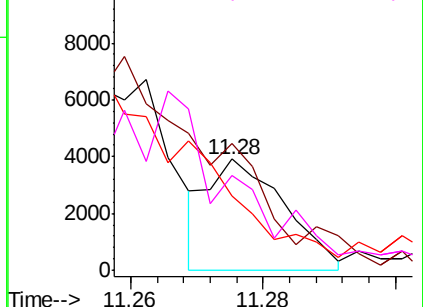
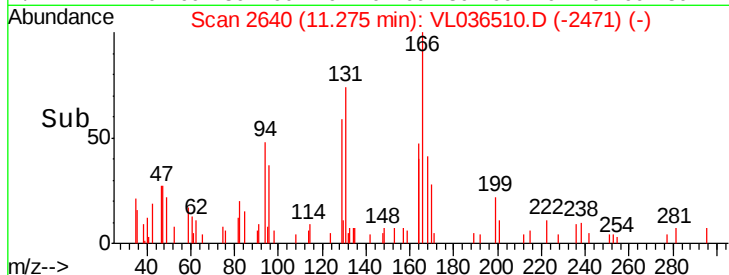
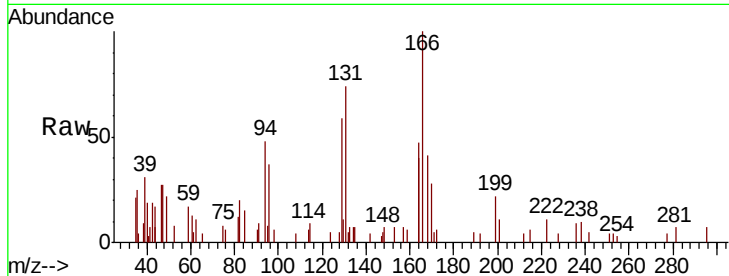
Ion Ratio Lower Upper

164 100

166 90.7 98.3 147.5#

129 60.8 85.8 128.8#

131 77.1 80.9 121.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.03 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

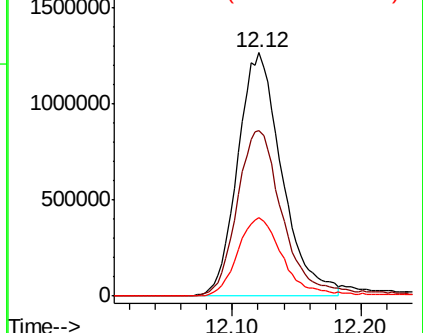
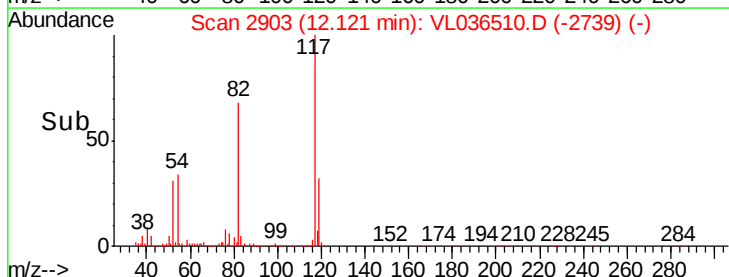
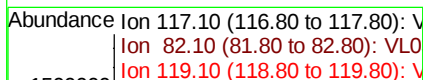
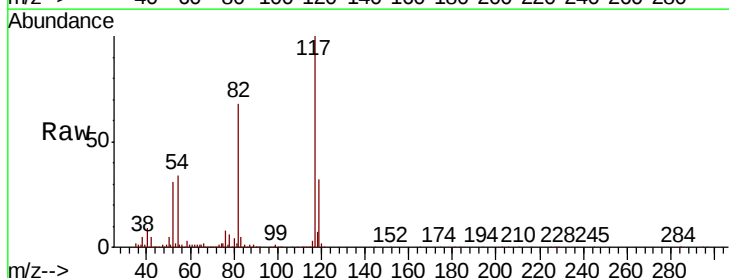
Tgt Ion:117 Resp: 3013741

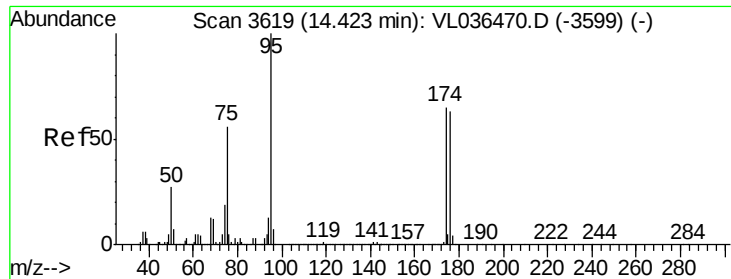
Ion Ratio Lower Upper

117 100

82 73.2 57.4 86.0

119 34.1 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.797 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.03 min

Lab File: VL036510.D

Acq: 26 Mar 2021 12:15

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 95 Resp: 2353249

Ion Ratio Lower Upper

95 100

174 66.3 51.0 76.6

175 5.1 3.9 5.9

