

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL021422\  
 Data File : VL038354.D  
 Acq On : 14 Feb 2022 23:59  
 Operator : SY/AP  
 Sample : N1490-01DL 40X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL

Quant Time: Feb 15 00:41:48 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012422AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 24 14:12:48 2022  
 QLast Update : Mon Jan 24 14:12:48 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 654445   | 10.00 | ppbv  | -0.04    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 2378752  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.05 | 117  | 2040918  | 10.00 | ppbv  | -0.04    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.37  | 95    | 1622171  | 10.47    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.70% |

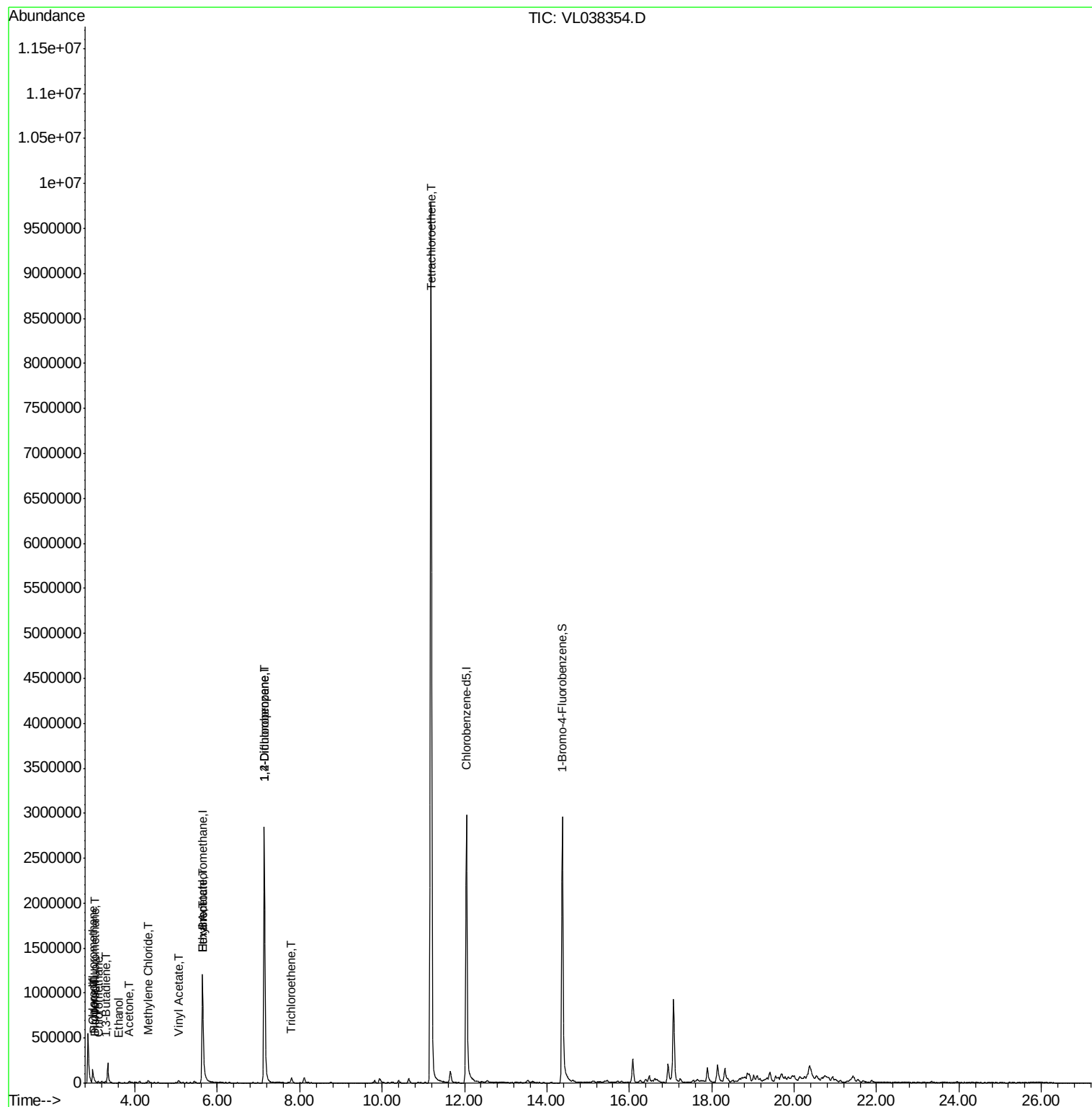
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.03  | 85   | 4464     | 0.03  | ppbv   | 94     |
| 3) Chlorodifluoromethane   | 2.98  | 51   | 185212   | 1.42  | ppbv   | 99     |
| 4) Chloromethane           | 3.13  | 50   | 1796     | 0.04  | ppbv # | 84     |
| 9) Propene                 | 3.01  | 41   | 10463    | 0.25  | ppbv   | 96     |
| 13) Ethanol                | 3.60  | 45   | 720      | 0.16  | ppbv # | 37     |
| 15) Acetone                | 3.85  | 43   | 8655     | 0.15  | ppbv # | 1      |
| 16) 1,3-Butadiene          | 3.30  | 39   | 1447     | 0.03  | ppbv # | 72     |
| 20) Methylene Chloride     | 4.33  | 84   | 6462     | 0.19  | ppbv # | 94     |
| 23) Vinyl Acetate          | 5.06  | 43   | 18977    | 0.23  | ppbv # | 98     |
| 25) Ethyl Acetate          | 5.66  | 43   | 29122    | 0.18  | ppbv # | 81     |
| 26) Hexane                 | 5.66  | 57   | 21155    | 0.28  | ppbv # | 12     |
| 38) Trichloroethene        | 7.80  | 130  | 9455     | 0.12  | ppbv   | 93     |
| 39) 1,2-Dichloropropane    | 7.14  | 63   | 613047   | 7.19  | ppbv # | 25     |
| 52) Tetrachloroethene      | 11.19 | 164  | 2735074  | 37.72 | ppbv   | 98     |

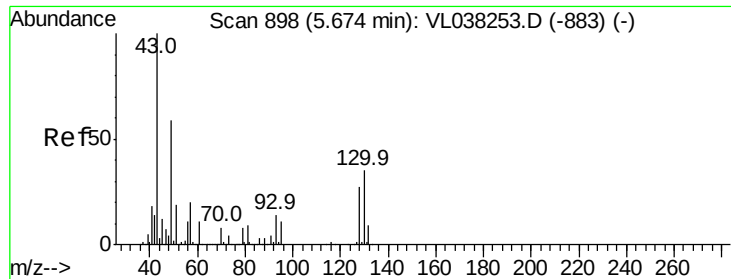
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 24 14:12:48 2022  
QLast Update : Mon Jan 24 14:12:48 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.64 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 14 Feb 2022 23:59 SV2DL

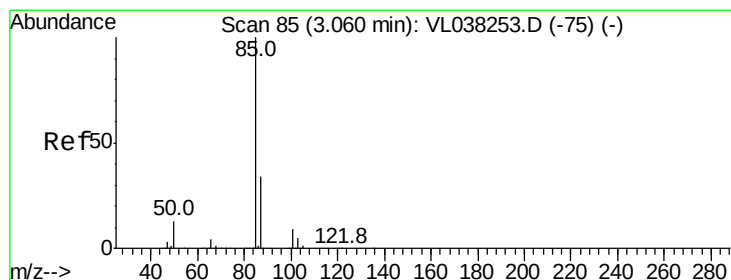
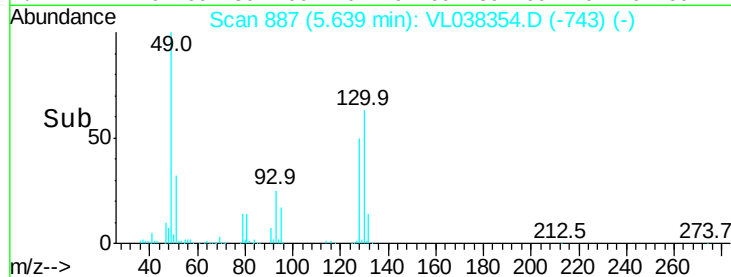
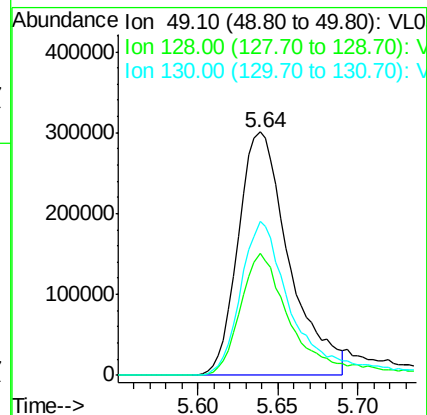
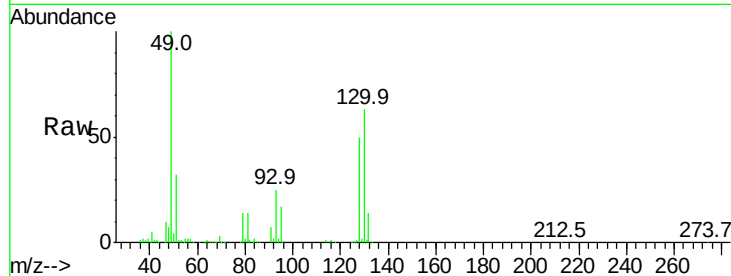
Tgt Ion: 49 Resp: 654445

Ion Ratio Lower Upper

49 100

128 52.9 24.5 73.5

130 67.6 30.1 90.5



#2

Dichlorodifluoromethane

Concen: 0.03 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.03 min

Lab File: VL038354.D

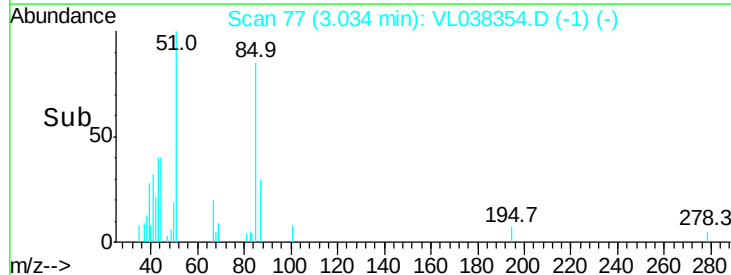
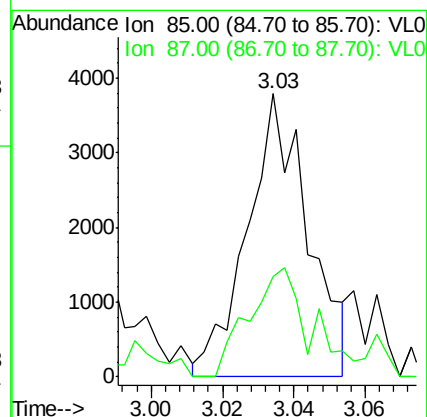
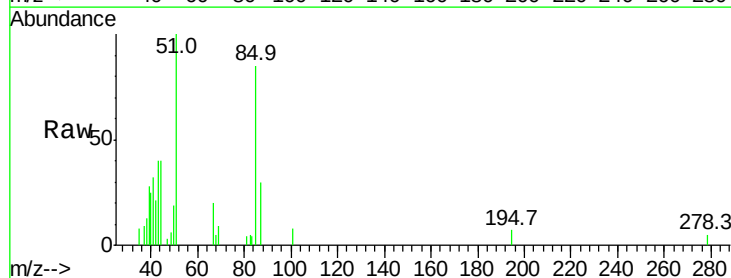
Acq: 14 Feb 2022 23:59

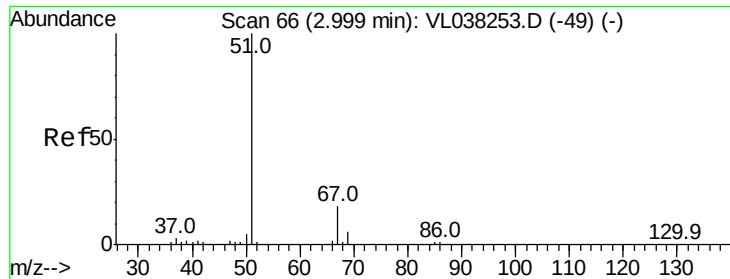
Tgt Ion: 85 Resp: 4464

Ion Ratio Lower Upper

85 100

87 37.3 27.0 40.6





#3

Chlorodifluoromethane

Concen: 1.42 ppbv

RT: 2.98 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: SV2DL

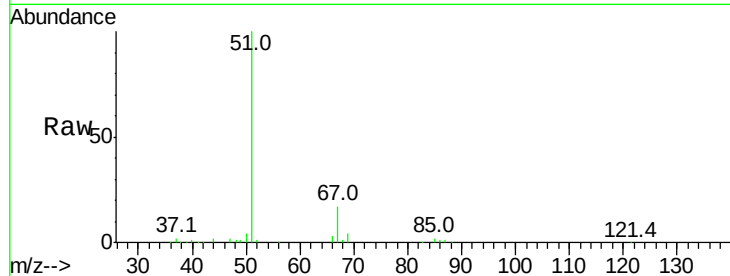
Acq: 14 Feb 2022 23:59

Tgt Ion: 51 Resp: 185212

Ion Ratio Lower Upper

51 100

67 17.5 14.4 21.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

100000

80000

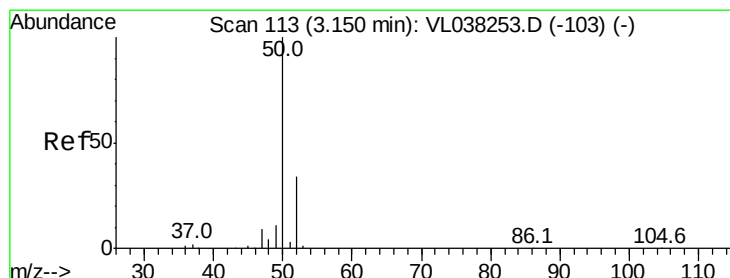
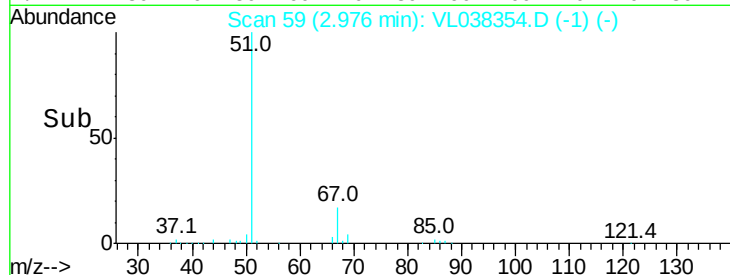
60000

40000

20000

0

Time-->



#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.02 min

Lab File: VL038354.D

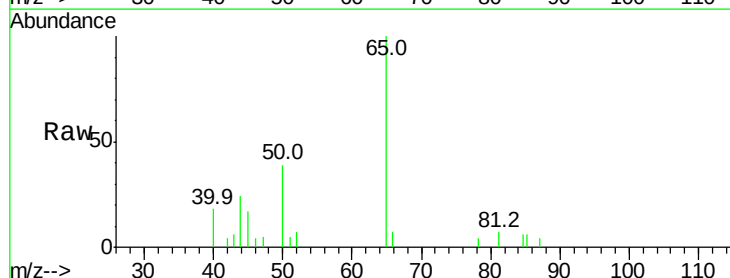
Acq: 14 Feb 2022 23:59

Tgt Ion: 50 Resp: 1796

Ion Ratio Lower Upper

50 100

52 24.6 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

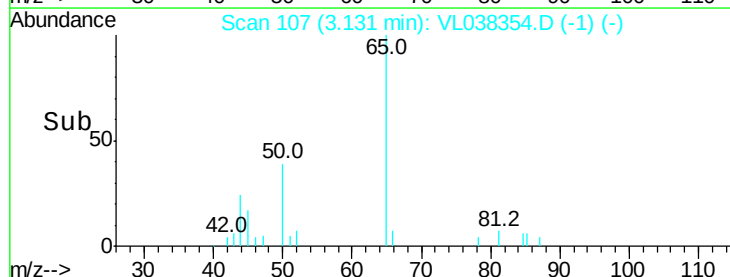
1500

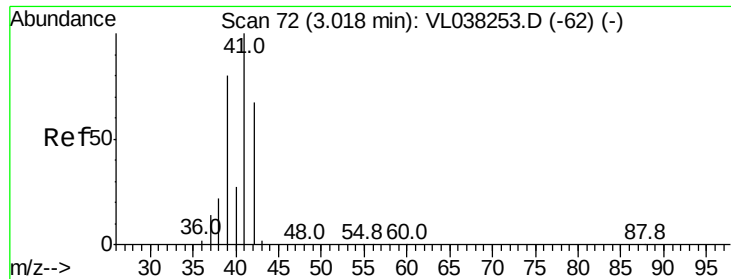
1000

500

0

Time-->





#9

Propene

Concen: 0.25 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

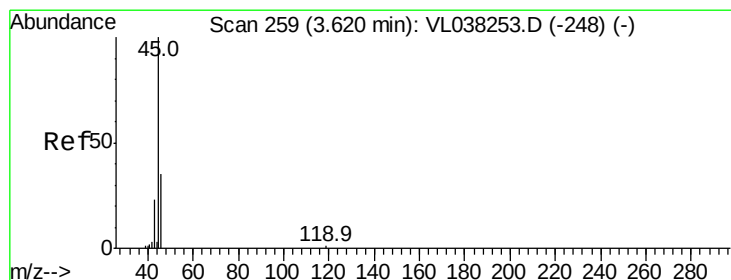
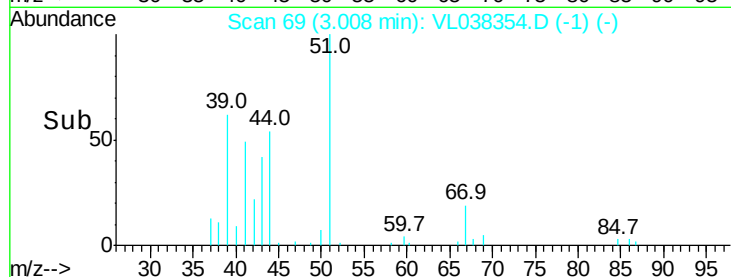
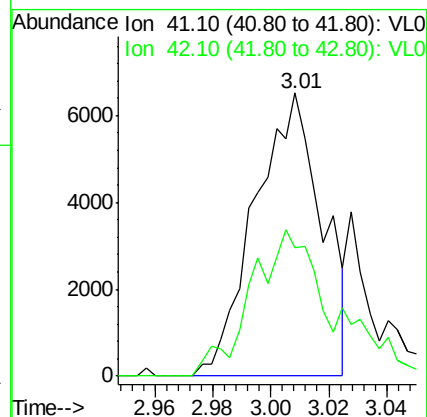
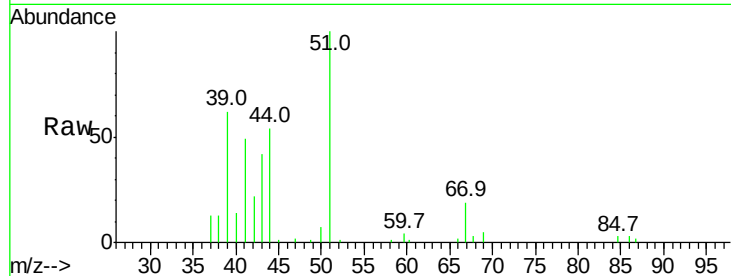
Acq: 14 Feb 2022 23:59 SV2DL

Tgt Ion: 41 Resp: 10463

Ion Ratio Lower Upper

41 100

42 65.6 54.9 82.3



#13

Ethanol

Concen: 0.16 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.02 min

Lab File: VL038354.D

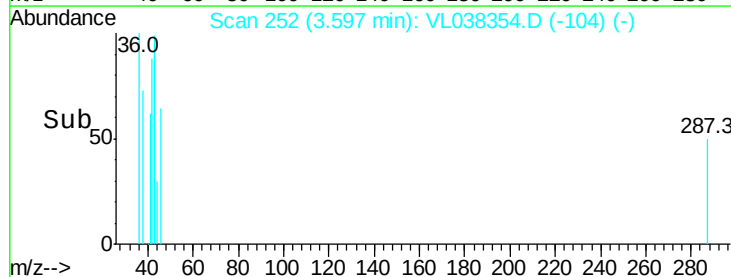
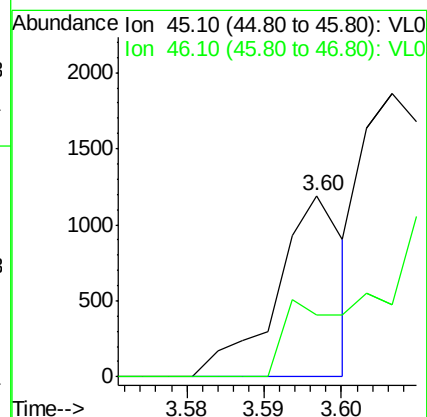
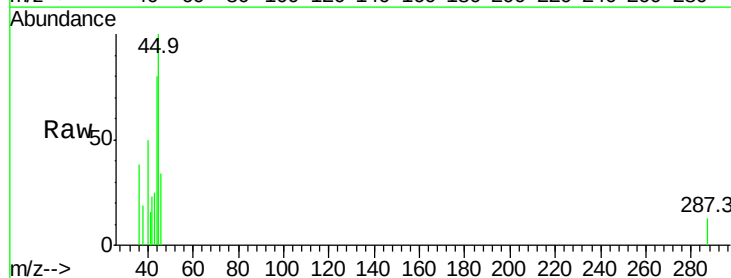
Acq: 14 Feb 2022 23:59

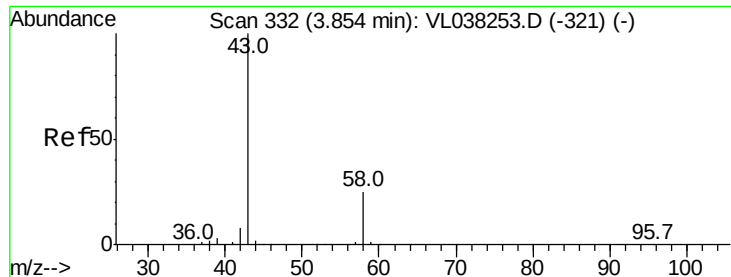
Tgt Ion: 45 Resp: 720

Ion Ratio Lower Upper

45 100

46 0.0 15.4 61.6#





#15

Acetone

Concen: 0.15 ppbv

RT: 3.85

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

SV2DL

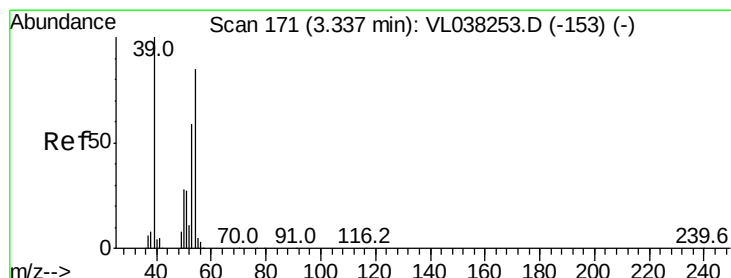
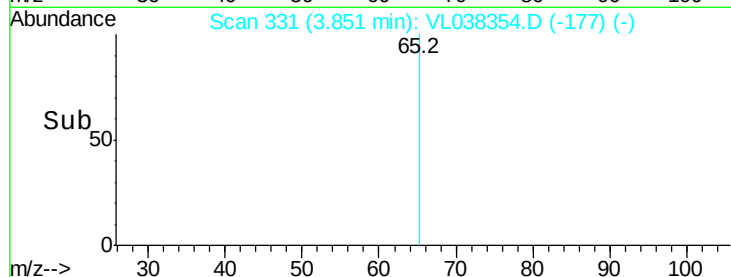
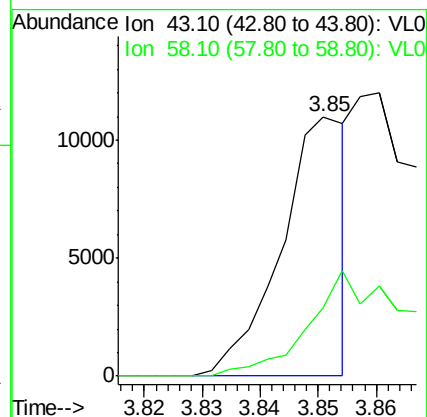
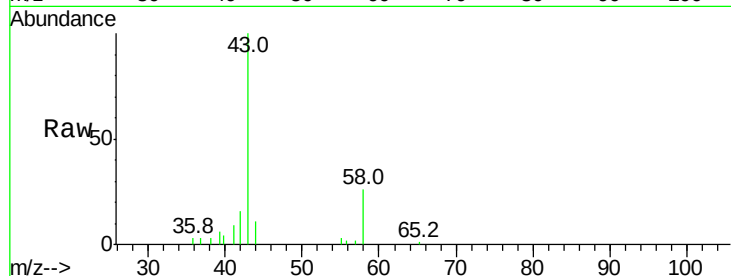
Acq: 14 Feb 2022 23:59

Tgt Ion: 43 Resp: 8655

Ion Ratio Lower Upper

43 100

58 105.7 21.5 32.3#



#16

1,3-Butadiene

Concen: 0.03 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.04 min

Lab File: VL038354.D

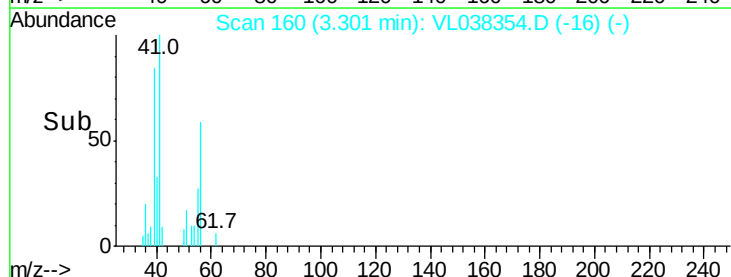
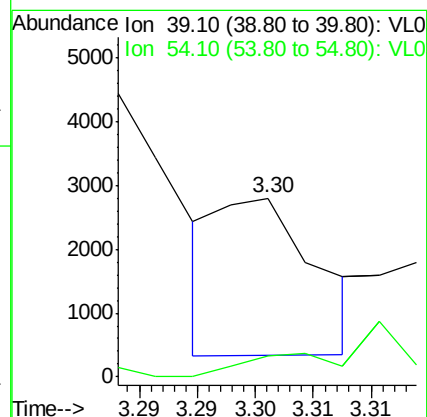
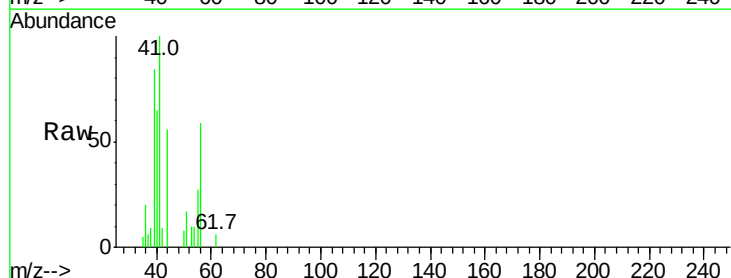
Acq: 14 Feb 2022 23:59

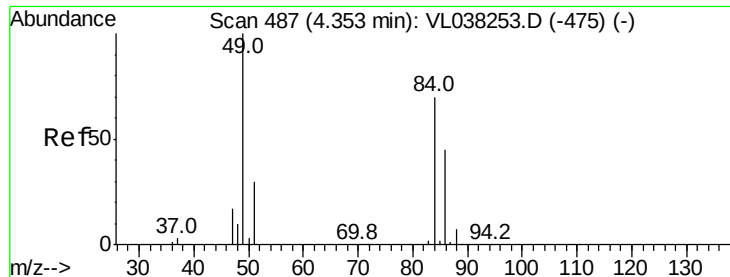
Tgt Ion: 39 Resp: 1447

Ion Ratio Lower Upper

39 100

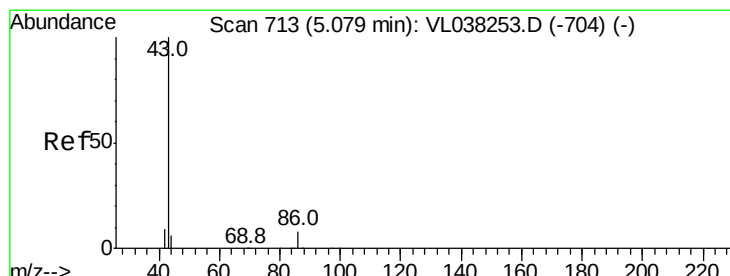
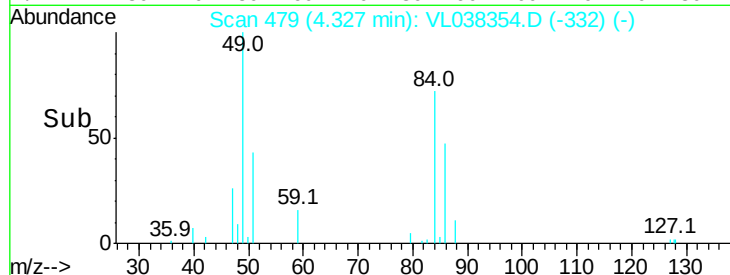
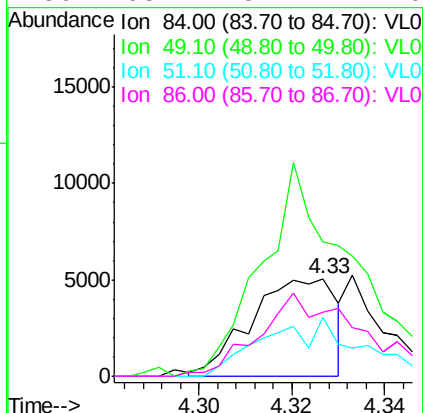
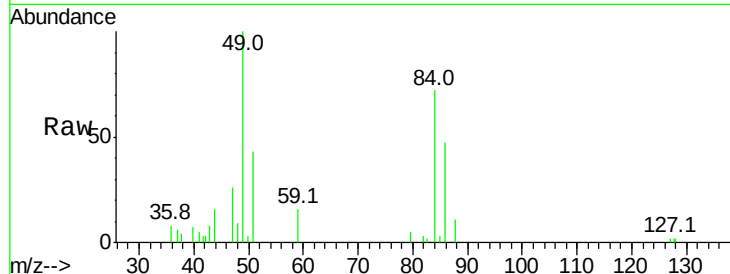
54 54.3 62.6 94.0#





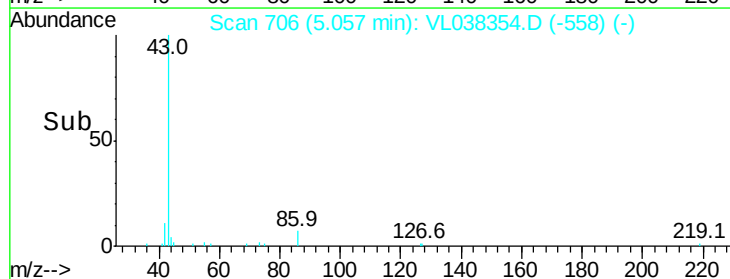
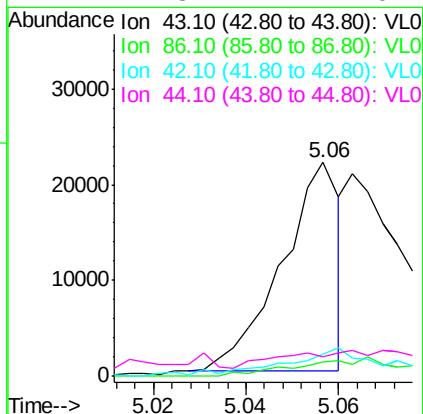
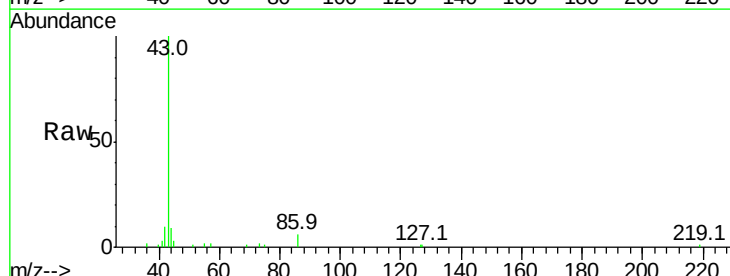
#20  
Methylene Chloride  
Concen: 0.19 ppbv  
RT: 4.33  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
SV2DL  
Acq: 14 Feb 2022 23:59

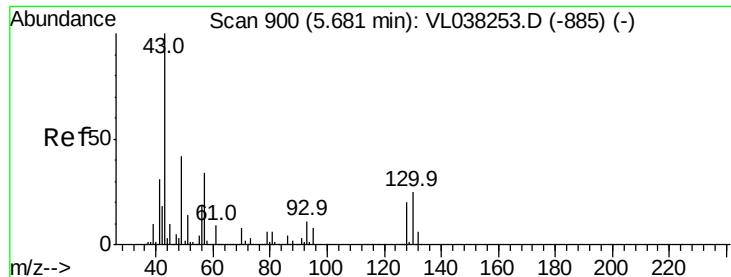
Tgt Ion: 84 Resp: 6462  
Ion Ratio Lower Upper  
84 100  
49 141.0 115.0 172.6  
51 61.9 35.0 52.6#  
86 63.2 51.4 77.0



#23  
Vinyl Acetate  
Concen: 0.23 ppbv  
RT: 5.06 min Scan# 706  
Delta R.T. -0.02 min  
Lab File: VL038354.D  
Acq: 14 Feb 2022 23:59

Tgt Ion: 43 Resp: 18977  
Ion Ratio Lower Upper  
43 100  
86 6.6 5.7 8.5  
42 9.7 7.7 11.5  
44 2.8 4.2 6.4#





#25

Ethyl Acetate

Concen: 0.18 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 14 Feb 2022 23:59 SV2DL

Tgt Ion: 43 Resp: 29122

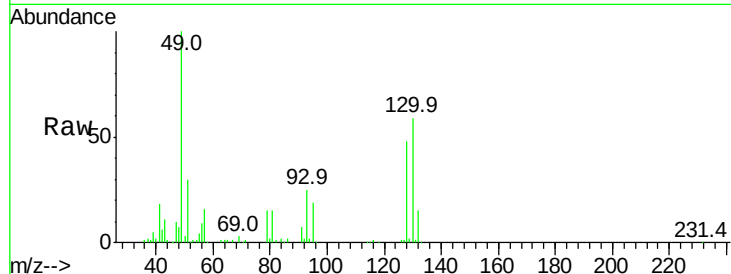
Ion Ratio Lower Upper

43 100

45 1.2 7.9 11.9#

61 0.4 7.8 11.8#

70 5.4 5.4 8.0

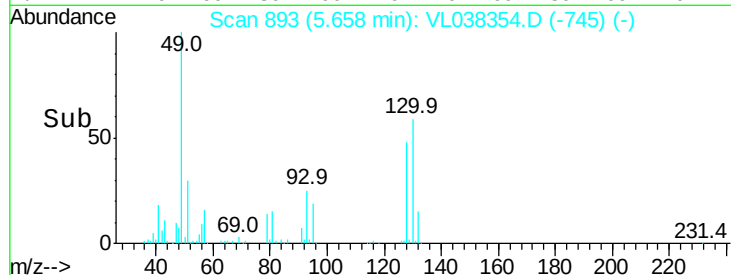
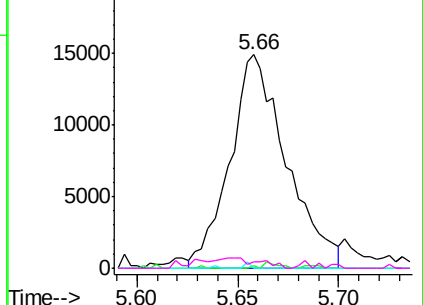


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#26

Hexane

Concen: 0.28 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.03 min

Lab File: VL038354.D

Acq: 14 Feb 2022 23:59

Tgt Ion: 57 Resp: 21155

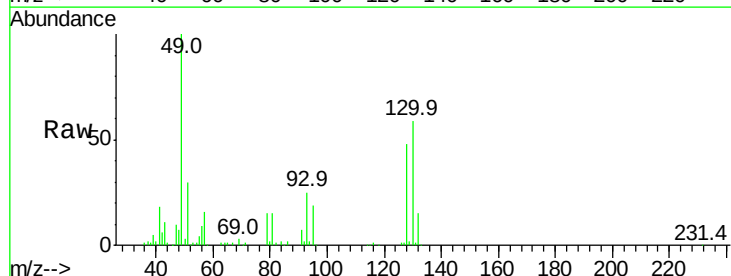
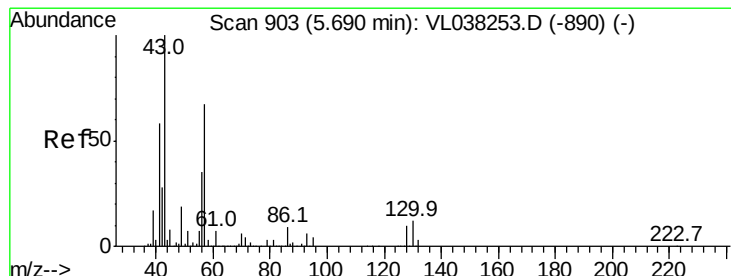
Ion Ratio Lower Upper

57 100

41 264.4 72.8 109.2#

43 151.2 177.0 265.6#

56 135.4 43.3 64.9#

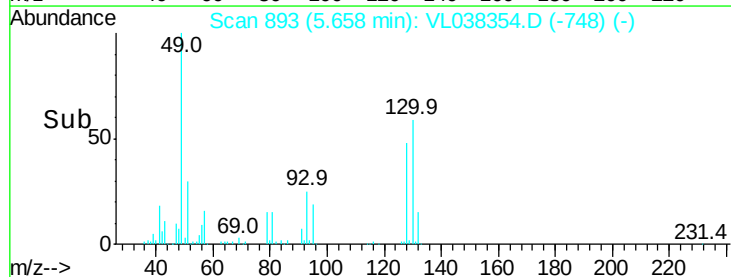
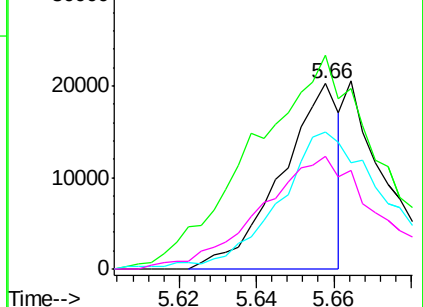


Abundance Ion 57.10 (56.80 to 57.80): VL0

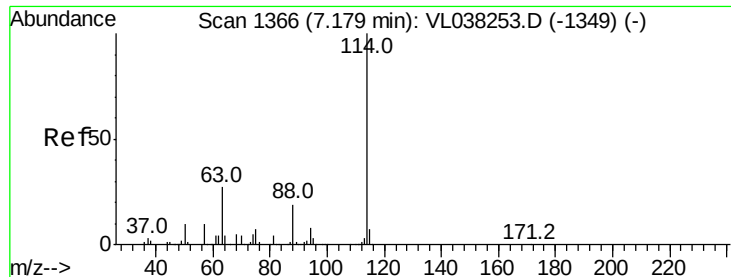
Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



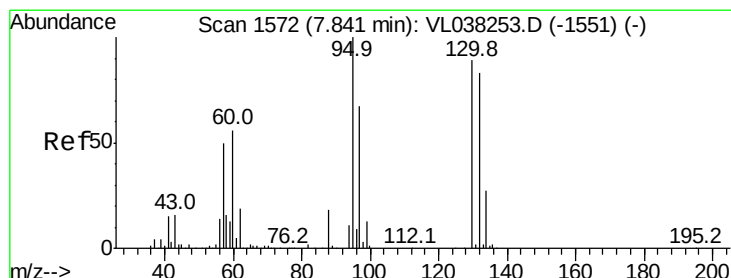
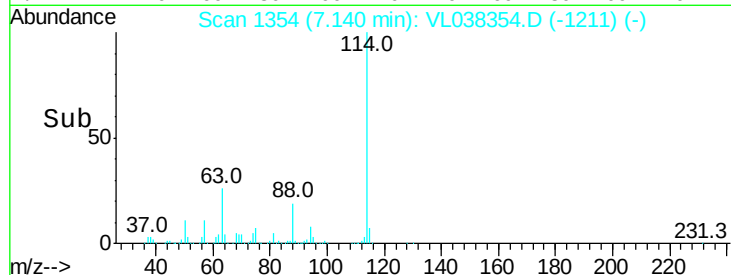
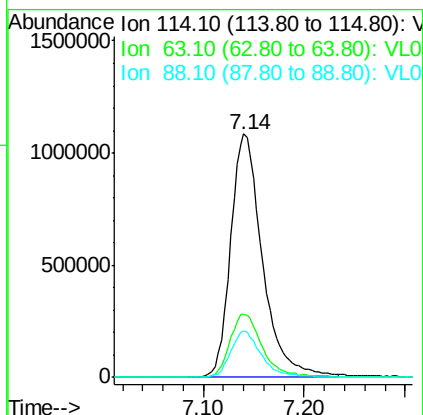
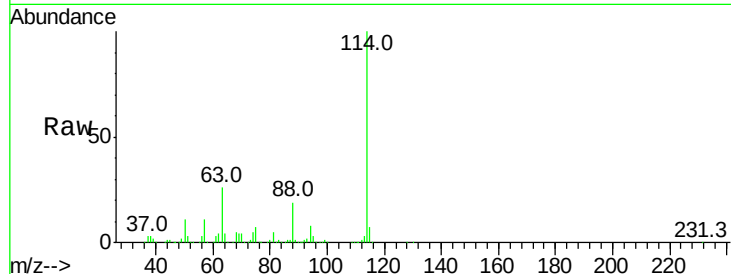




#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.14  
 Delta R.T.: MSVOA\_L  
 Lab File: ClientSampleId : SV2DL  
 Acq: 14 Feb 2022 23:59

Tgt Ion:114 Resp: 2378752

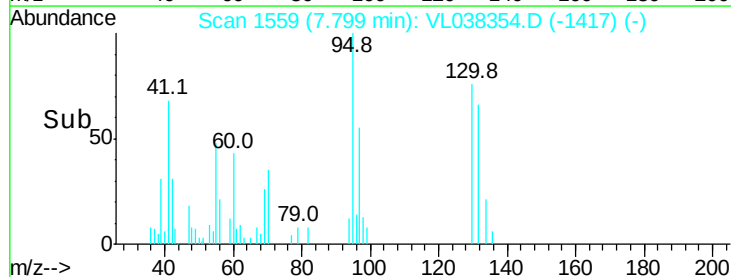
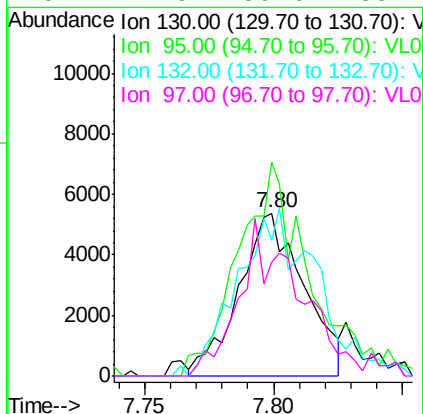
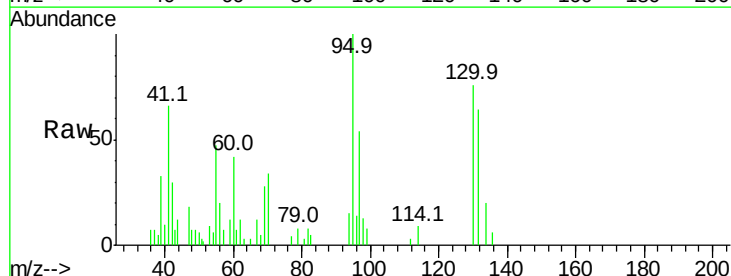
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 26.8  | 22.0  | 33.0  |
| 88  | 18.9  | 15.0  | 22.6  |

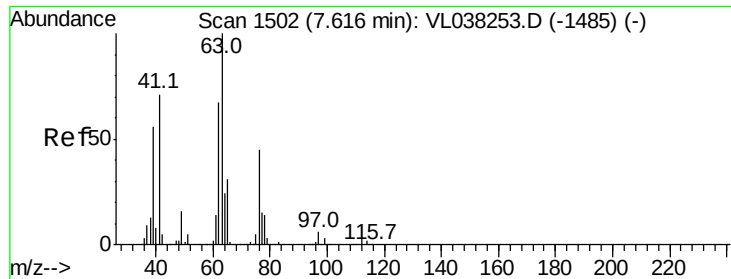


#38  
 Trichloroethene  
 Concen: 0.12 ppbv  
 RT: 7.80 min Scan# 1559  
 Delta R.T.: -0.04 min  
 Lab File: VL038354.D  
 Acq: 14 Feb 2022 23:59

Tgt Ion:130 Resp: 9455

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 130 | 100   |       |       |
| 95  | 122.8 | 89.4  | 134.2 |
| 132 | 86.6  | 74.6  | 111.8 |
| 97  | 72.9  | 59.6  | 89.4  |





#39

1,2-Dichloropropane

Concen: 7.19 ppbv

RT: 7.14 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 14 Feb 2022 23:59 SV2DL

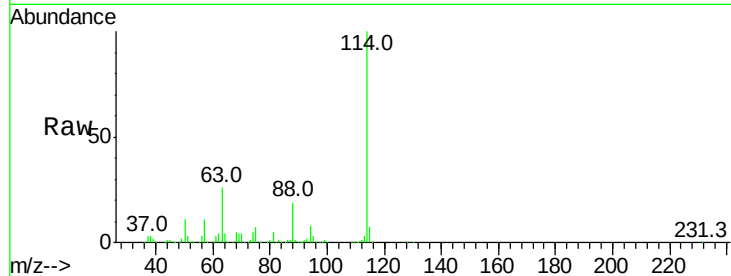
Tgt Ion: 63 Resp: 613047

Ion Ratio Lower Upper

63 100

41 0.0 56.6 85.0#

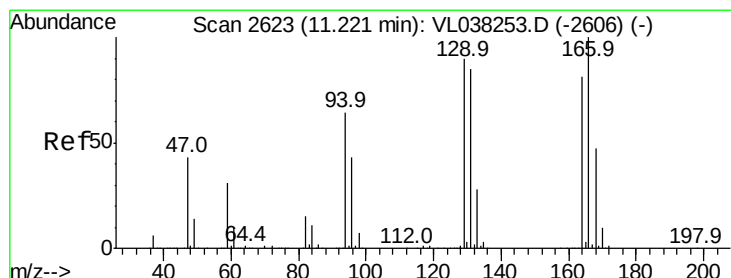
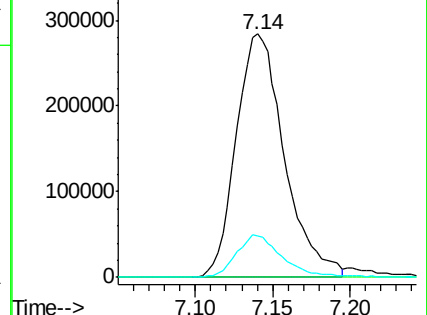
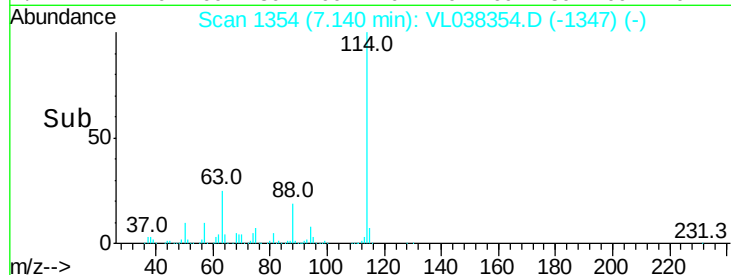
62 16.8 53.9 80.9#



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: 37.72 ppbv

RT: 11.19 min Scan# 2613

Delta R.T. -0.03 min

Lab File: VL038354.D

Acq: 14 Feb 2022 23:59

Tgt Ion: 164 Resp: 2735074

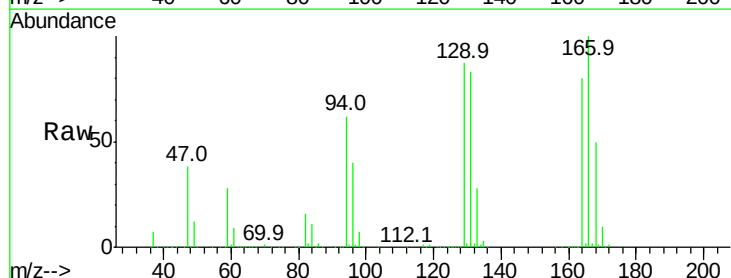
Ion Ratio Lower Upper

164 100

166 124.5 98.8 148.2

129 108.3 89.2 133.8

131 103.5 83.6 125.4

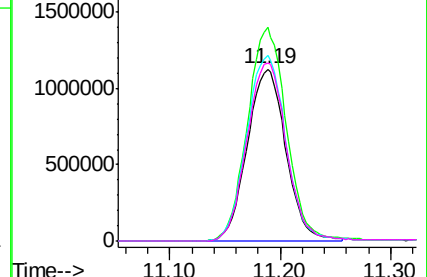
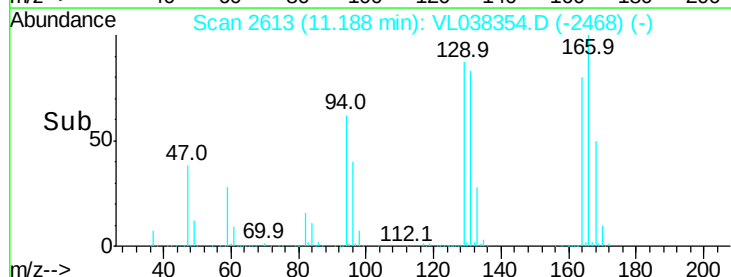


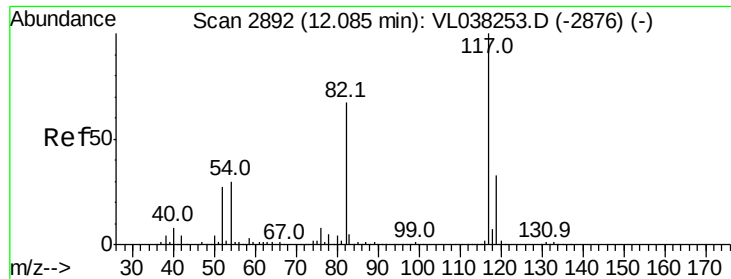
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

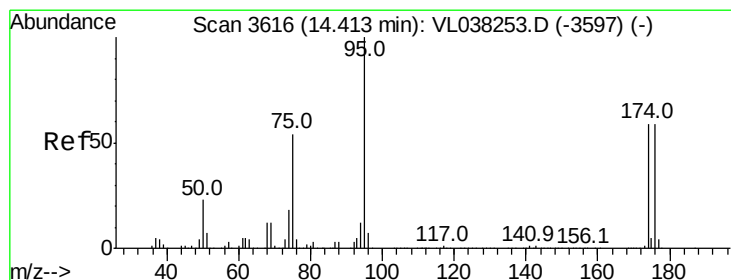
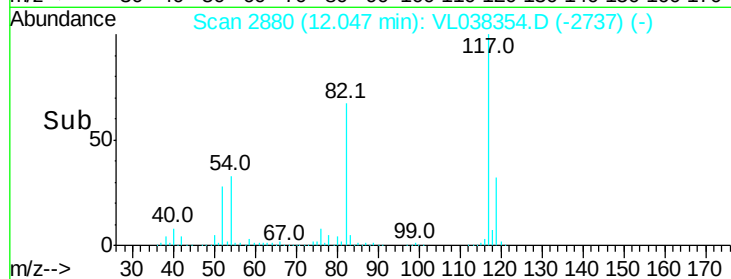
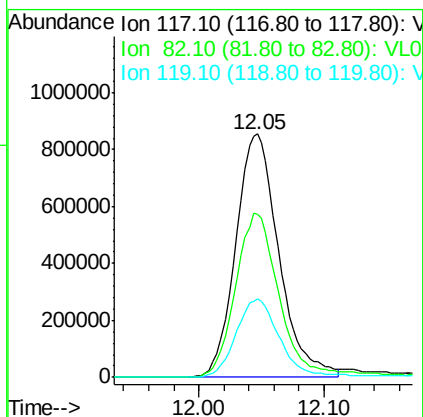
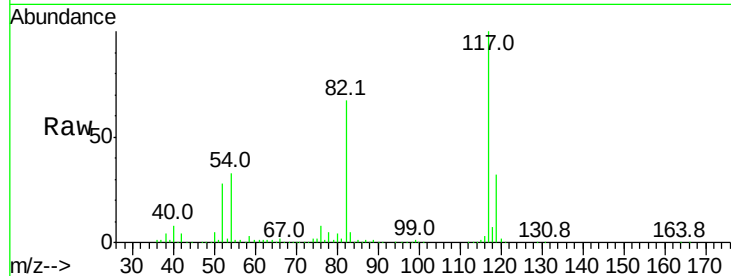
Ion 131.00 (130.70 to 131.70): V





#55  
 Chlorobenzene-d5  
 Concen: 10.00 ppbv  
 RT: 12.05 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : SV2DL  
 Acq: 14 Feb 2022 23:59

Tgt Ion: 117 Resp: 2040918  
 Ion Ratio Lower Upper  
 117 100  
 82 72.0 54.4 81.6  
 119 33.7 45.9 68.9#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.47 ppbv  
 RT: 14.37 min Scan# 3604  
 Delta R.T. -0.04 min  
 Lab File: VL038354.D  
 Acq: 14 Feb 2022 23:59

Tgt Ion: 95 Resp: 1622171  
 Ion Ratio Lower Upper  
 95 100  
 174 62.9 48.3 72.5  
 175 4.5 3.5 5.3

