

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\  
 Data File : VL037142.D  
 Acq On : 8 Jun 2021 21:36  
 Operator : SY/AP  
 Sample : VL0608ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jun 09 01:22:03 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1345438  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4049196  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 4851911  | 10.00 | ppbv  | 0.03     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2996493  | 8.22     | ppbv | 0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 82.20% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 2008651  | 8.800  | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 2671788  | 10.839 | ppbv   | 96     |
| 4) Chloromethane               | 3.14 | 50   | 893142   | 10.648 | ppbv   | 98     |
| 5) Vinyl Chloride              | 3.25 | 62   | 988111   | 10.778 | ppbv   | 99     |
| 6) Bromomethane                | 3.47 | 94   | 572278   | 11.846 | ppbv   | 99     |
| 7) Chloroethane                | 3.56 | 64   | 363463   | 12.209 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 2565382  | 11.971 | ppbv   | 98     |
| 9) Propene                     | 3.01 | 41   | 839310   | 9.509  | ppbv   | 99     |
| 10) Heptane                    | 8.12 | 43   | 2159378  | 9.817  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101  | 2623886  | 12.420 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 1833040  | 12.181 | ppbv   | 97     |
| 13) Ethanol                    | 3.61 | 45   | 64239    | 5.455  | ppbv # | 44     |
| 14) Bromoethene                | 3.74 | 108  | 783709   | 11.824 | ppbv   | 99     |
| 15) Acetone                    | 3.85 | 43   | 1316456  | 9.553  | ppbv   | 97     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 964721   | 11.268 | ppbv   | 97     |
| 17) tert-Butyl alcohol         | 4.29 | 59   | 1329088  | 10.529 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 816384   | 11.732 | ppbv   | 94     |
| 19) Isopropyl Alcohol          | 3.97 | 45   | 807069   | 10.895 | ppbv # | 37     |
| 20) Methylene Chloride         | 4.34 | 84   | 703487   | 9.523  | ppbv   | 99     |
| 21) Allyl Chloride             | 4.41 | 41   | 1107444  | 10.652 | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 806360   | 12.091 | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.07 | 43   | 2318831  | 10.601 | ppbv # | 98     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 1825295  | 11.593 | ppbv   | 100    |
| 25) Ethyl Acetate              | 5.68 | 43   | 3356447  | 10.136 | ppbv   | 100    |
| 26) Hexane                     | 5.68 | 57   | 1621838  | 9.587  | ppbv   | 96     |
| 27) Carbon Disulfide           | 4.55 | 76   | 1774867  | 10.410 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73   | 2087506  | 10.294 | ppbv   | 99     |
| 29) Chloroform                 | 5.75 | 83   | 2713442  | 11.353 | ppbv   | 97     |
| 30) Cyclohexane                | 7.13 | 84   | 1443933  | 10.044 | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61   | 1658422  | 10.934 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 2818320  | 10.982 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.24 | 43   | 1573999  | 10.675 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.02 | 117  | 3010053  | 11.188 | ppbv   | 99     |
| 36) Benzene                    | 6.89 | 78   | 3400512  | 9.750  | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 2038612  | 11.789 | ppbv   | 98     |
| 38) Trichloroethene            | 7.83 | 130  | 1459637  | 9.783  | ppbv   | 99     |
| 39) 1,2-Dichloropropane        | 7.61 | 63   | 1299517  | 9.672  | ppbv   | 94     |
| 40) 1,4-Dioxane                | 7.83 | 88   | 157718   | 4.972  | ppbv # | 100    |
| 41) Tetrahydrofuran            | 6.05 | 42   | 762101   | 9.075  | ppbv   | 97     |
| 42) Bromodichloromethane       | 7.79 | 83   | 2918906  | 11.158 | ppbv   | 100    |
| 43) Methyl Methacrylate        | 8.01 | 69   | 1246164  | 10.366 | ppbv   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\  
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 Operator : SY/AP  
 Sample : VL0608ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

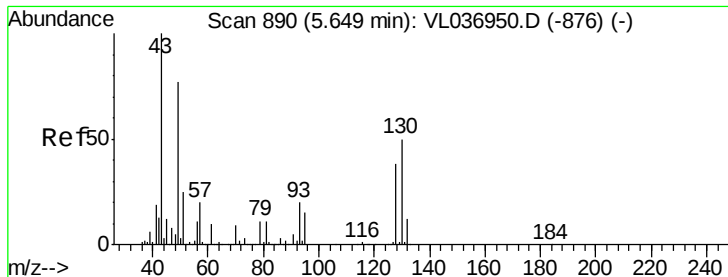
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jun 09 01:22:03 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 5677641  | 9.488  | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 966340   | 10.522 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1270202  | 10.282 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1470647  | 10.458 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2621002  | 11.511 | ppbv   | 99       |
| 49) Bromoform                 | 13.04 | 173  | 2140871  | 11.385 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2454024  | 10.086 | ppbv   | 98       |
| 51) 2-Hexanone                | 10.14 | 43   | 1287225  | 10.008 | ppbv # | 96       |
| 52) Tetrachloroethene         | 11.22 | 164  | 1426424  | 10.285 | ppbv   | 97       |
| 53) Toluene                   | 9.80  | 91   | 4115751  | 9.917  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 2199069  | 11.000 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1808344  | 8.858  | ppbv # | 60       |
| 57) Chlorobenzene             | 12.14 | 112  | 3179716  | 8.452  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.71 | 91   | 5529786  | 8.075  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.00 | 91   | 4729304  | 8.355  | ppbv # | 34       |
| 60) o-Xylene                  | 13.69 | 91   | 4453684  | 8.250  | ppbv   | 99       |
| 61) Styrene                   | 13.53 | 104  | 2560541  | 8.419  | ppbv   | 97       |
| 62) Isopropylbenzene          | 14.67 | 105  | 6291716  | 8.109  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 3050854  | 7.567  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.56 | 120  | 1708844  | 8.536  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 5838174  | 8.339  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.99 | 91   | 246964   | 6.358  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.29 | 105  | 7796191  | 8.163  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 6919922  | 8.427  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.55 | 91   | 6695958  | 8.584  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 4631166  | 8.264  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 5517446  | 8.611  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 5082804  | 8.447  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 5298164  | 8.516  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 3319465  | 8.738  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 3179390  | 8.277  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 3236993  | 8.503  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 2350800  | 7.680  | ppbv   | 99       |
| 79) Naphthalene               | 22.19 | 128  | 4562404  | 9.346  | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 24.97 | 142  | 744666   | 7.015  | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 2619479  | 8.803  | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

ClientSampleId :

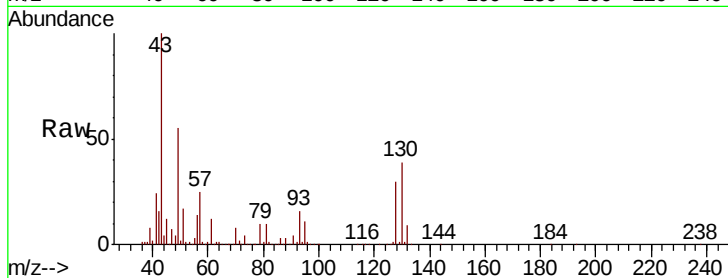
Tot Ion: 49 Resp: 1345438

Ion Ratio Lower Upper

49 100

128 58.8 26.9 80.7

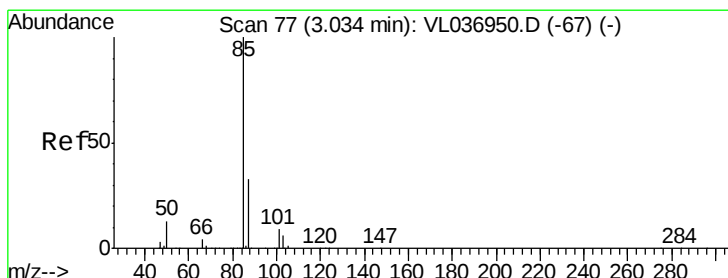
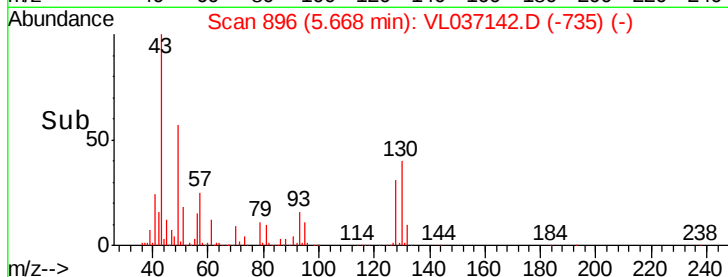
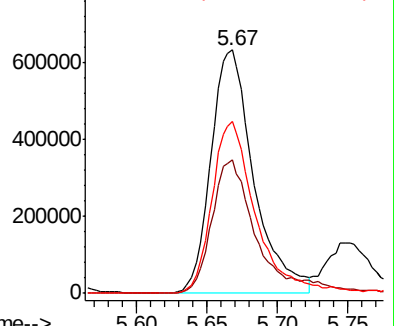
130 73.1 33.8 101.4



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



#2

Dichlorodifluoromethane

Concen: 8.800 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.01 min

Lab File: VL037142.D

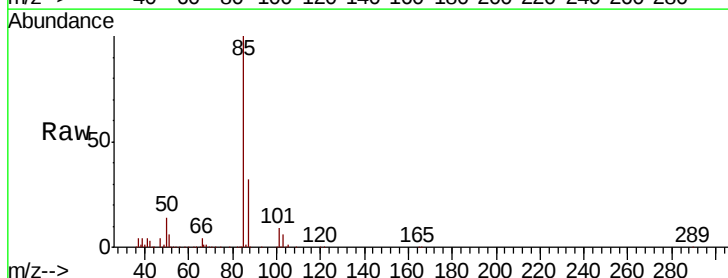
Acq: 8 Jun 2021 21:36

Tgt Ion: 85 Resp: 2008651

Ion Ratio Lower Upper

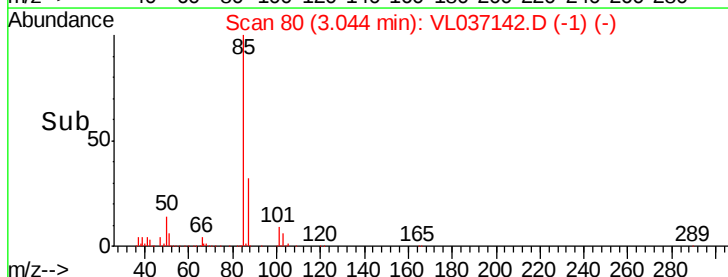
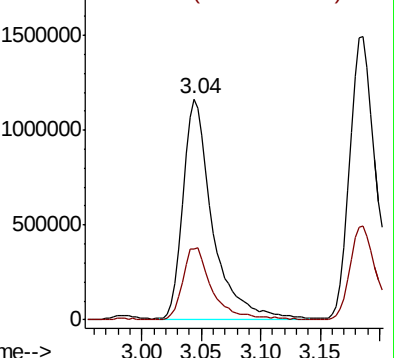
85 100

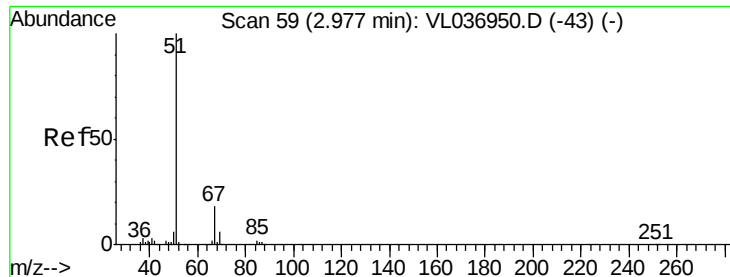
87 32.1 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.839 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

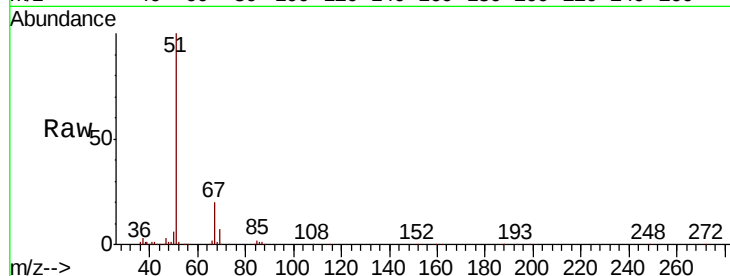
ClientSampleId :

Tot Ion: 51 Resp: 2671788

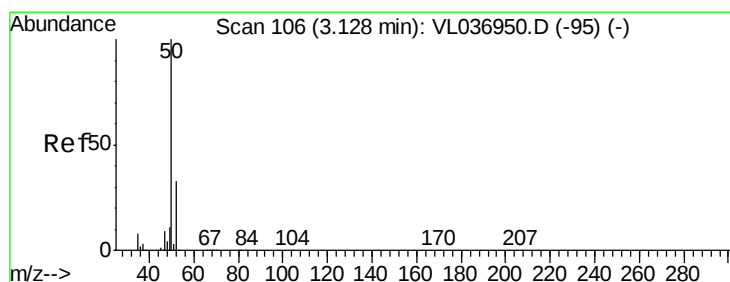
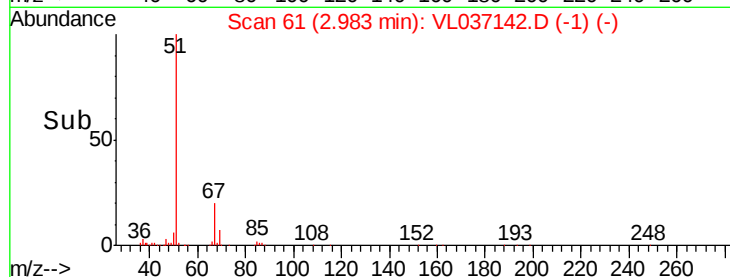
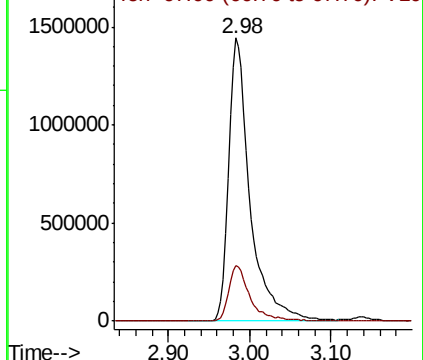
Ion Ratio Lower Upper

51 100

67 19.8 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0  
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.648 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL037142.D

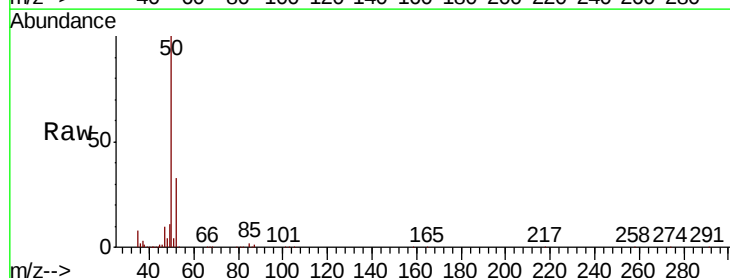
Acq: 8 Jun 2021 21:36

Tgt Ion: 50 Resp: 893142

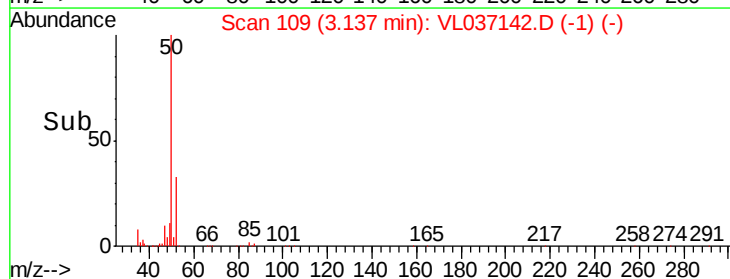
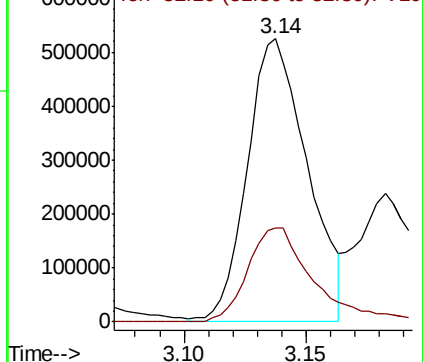
Ion Ratio Lower Upper

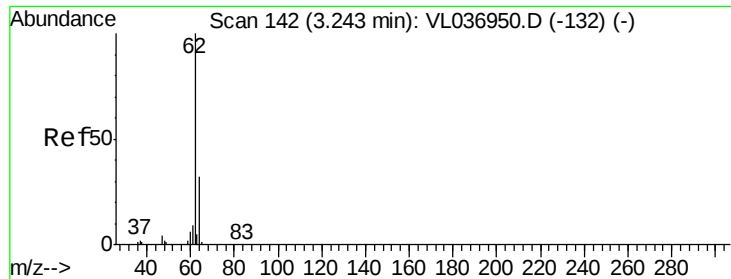
50 100

52 33.5 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0  
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.778 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

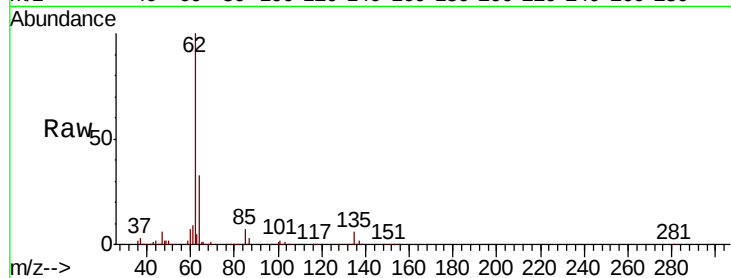
ClientSampleId :

Tot Ion: 62 Resp: 988111

Ion Ratio Lower Upper

62 100

64 33.0 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

600000

500000

400000

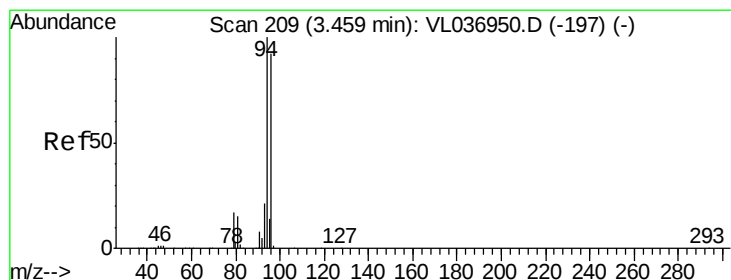
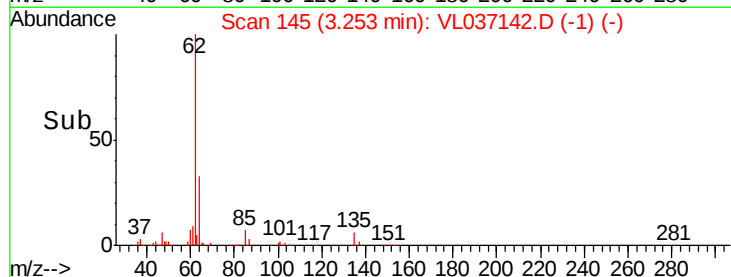
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 11.846 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.01 min

Lab File: VL037142.D

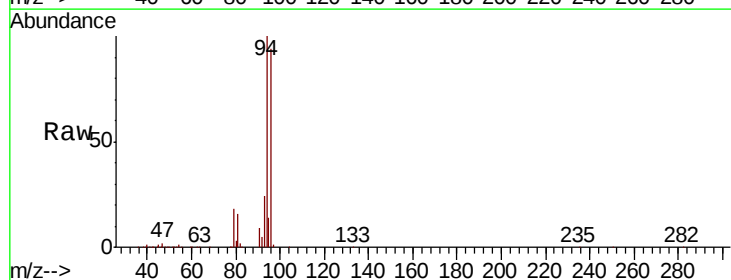
Acq: 8 Jun 2021 21:36

Tgt Ion: 94 Resp: 572278

Ion Ratio Lower Upper

94 100

96 93.5 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

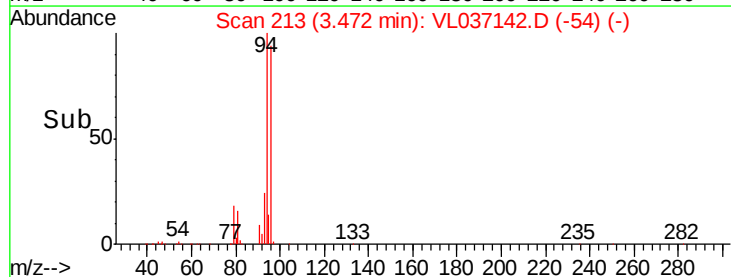
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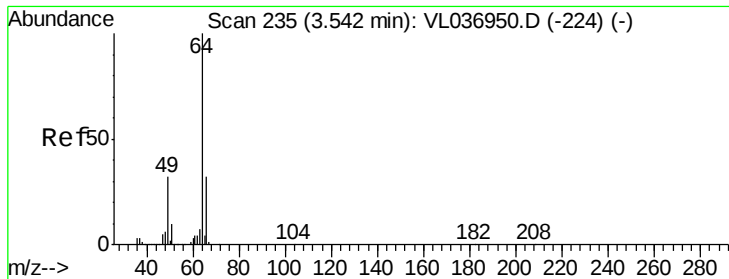
200000

100000

0

Time-->





#7

Chloroethane

Concen: 12.209 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.01 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

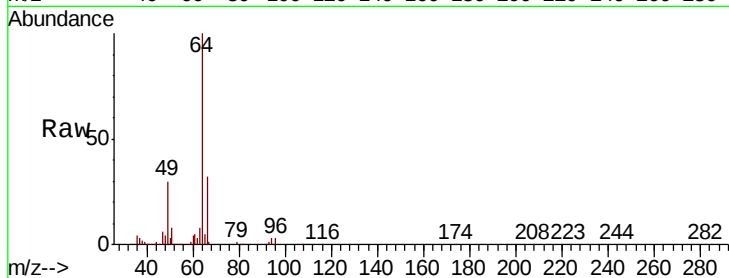
ClientSampleId :

Tot Ion: 64 Resp: 363463

Ion Ratio Lower Upper

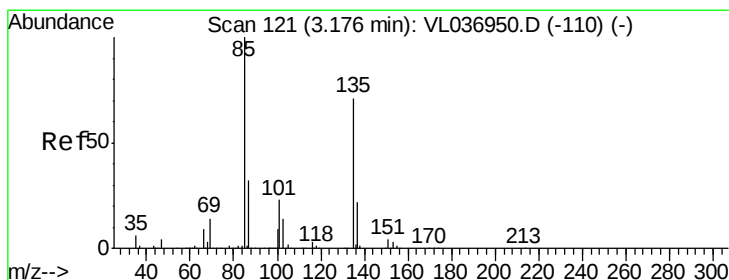
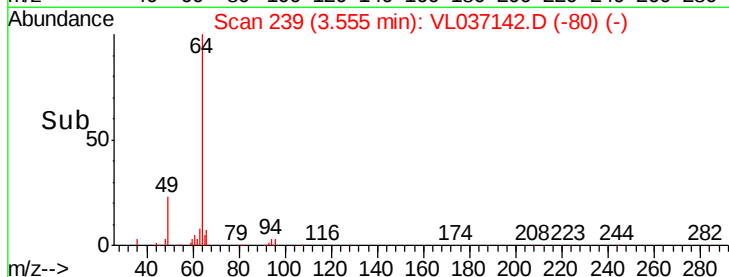
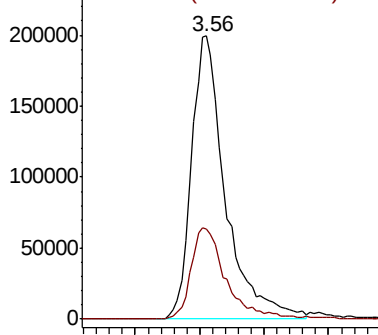
64 100

66 32.0 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.971 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.01 min

Lab File: VL037142.D

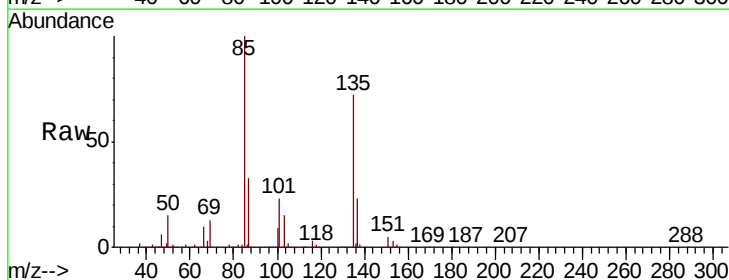
Acq: 8 Jun 2021 21:36

Tgt Ion: 85 Resp: 2565382

Ion Ratio Lower Upper

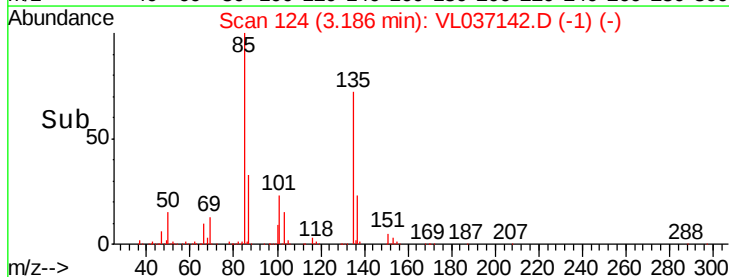
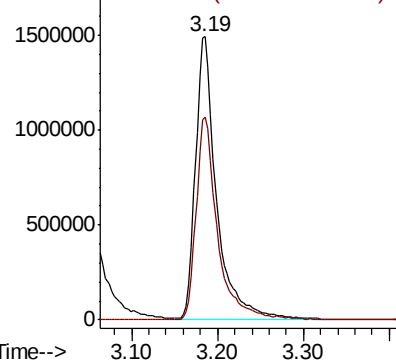
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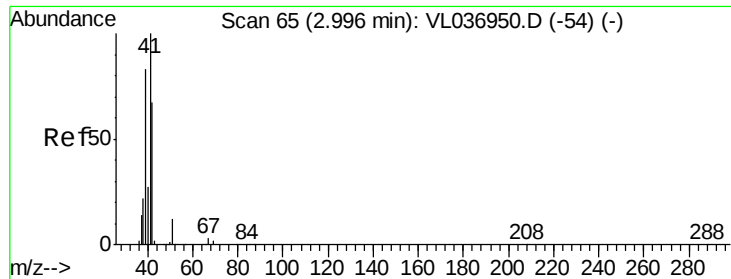
135 73.5 57.7 86.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.509 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

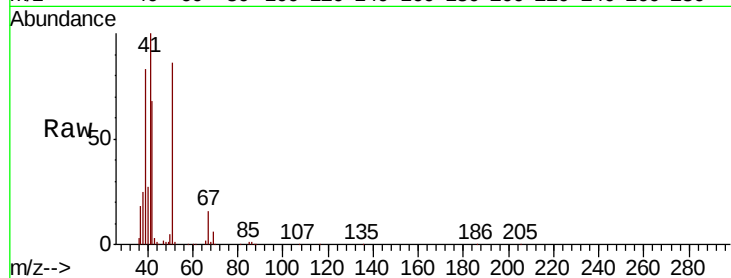
ClientSampleId :

Tot Ion: 41 Resp: 839310

Ion Ratio Lower Upper

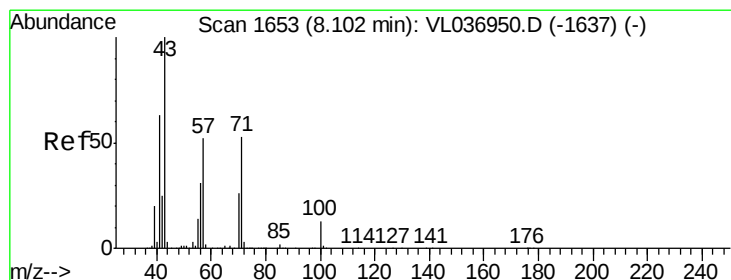
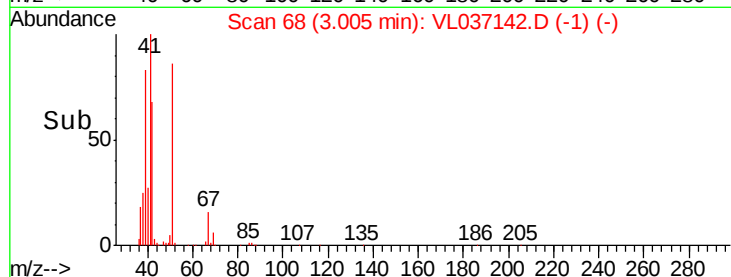
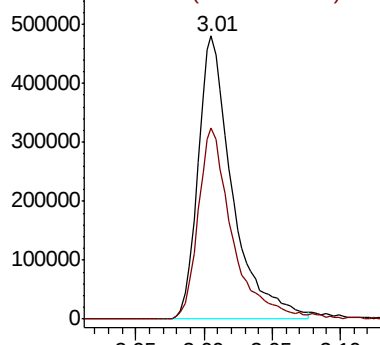
41 100

42 68.3 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.817 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. 0.02 min

Lab File: VL037142.D

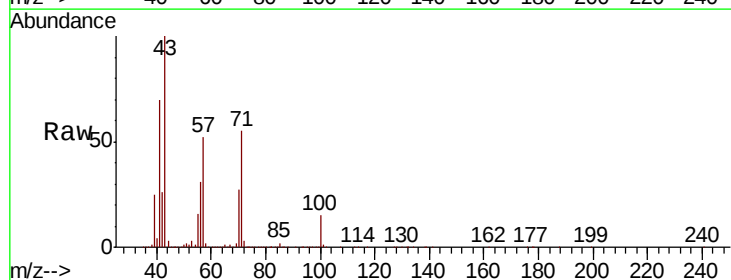
Acq: 8 Jun 2021 21:36

Tgt Ion: 43 Resp: 2159378

Ion Ratio Lower Upper

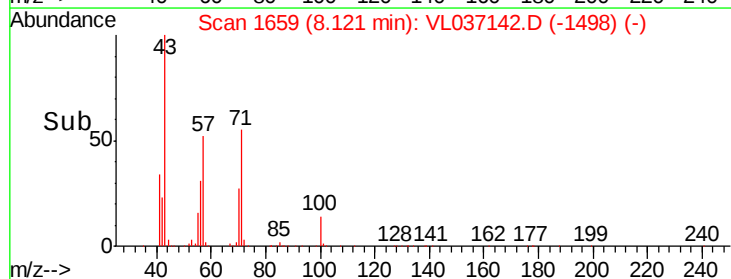
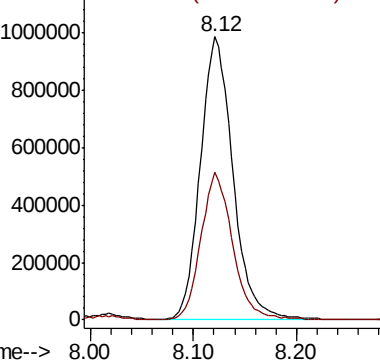
43 100

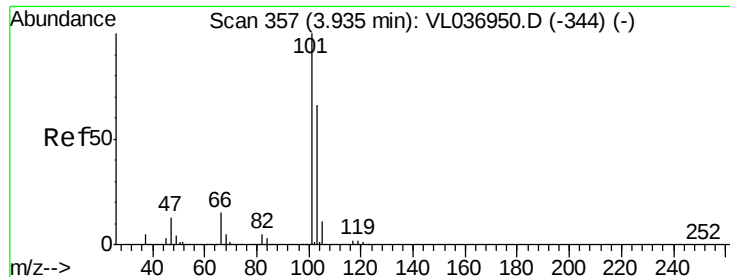
57 50.9 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

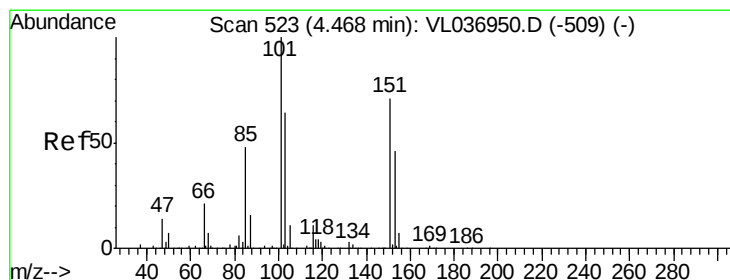
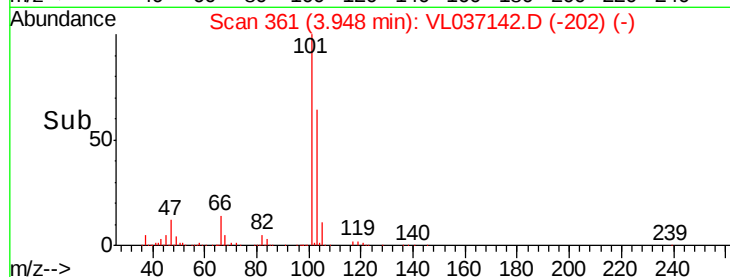
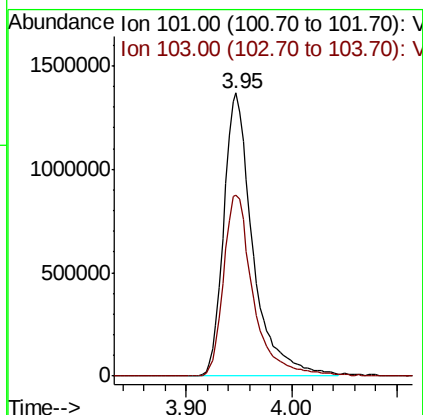
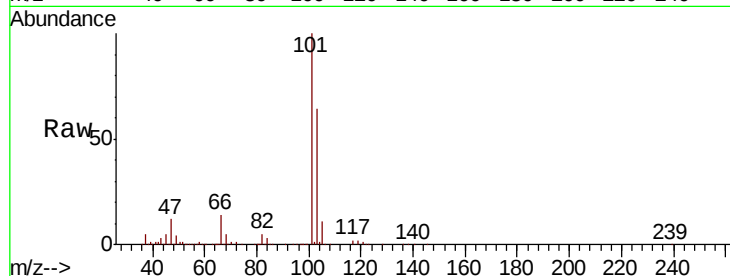




#11  
 Trichlorofluoromethane  
 Concen: 12.420 ppbv  
 RT: 3.95 min Scan# 361  
 Delta R.T. 0.01 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

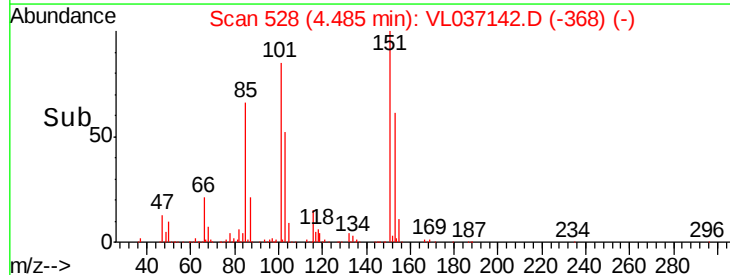
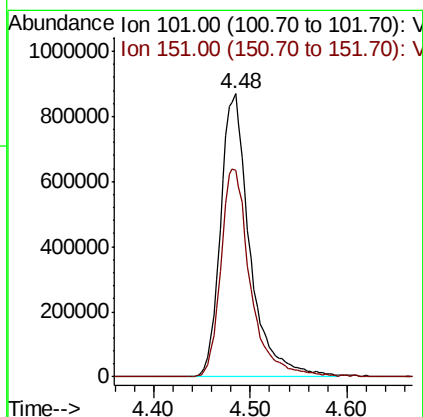
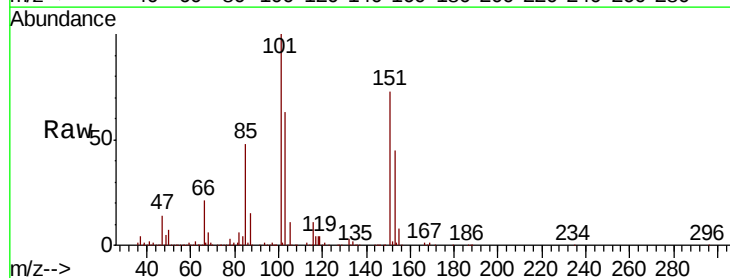
Instrument :  
 MSVOA\_L  
 ClientSampleId :

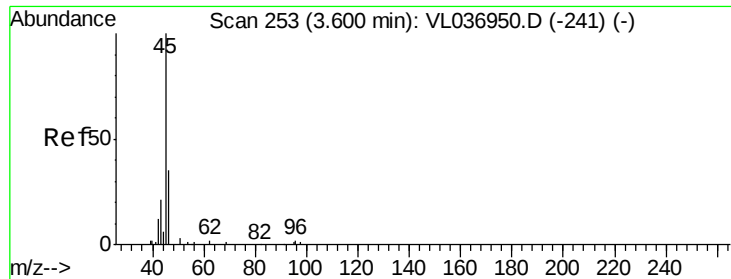
Tot Ion:101 Resp: 2623886  
 Ion Ratio Lower Upper  
 101 100  
 103 64.1 52.6 79.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 12.181 ppbv  
 RT: 4.48 min Scan# 528  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion:101 Resp: 1833040  
 Ion Ratio Lower Upper  
 101 100  
 151 74.4 57.7 86.5

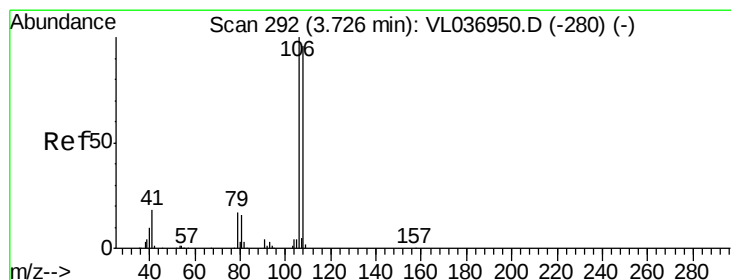
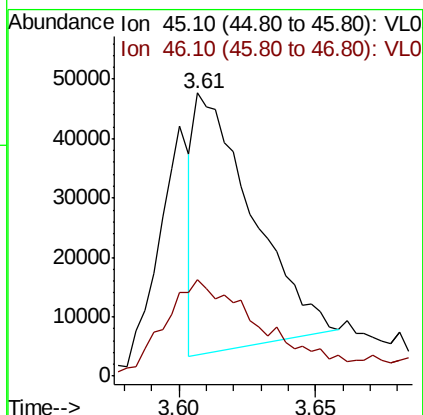
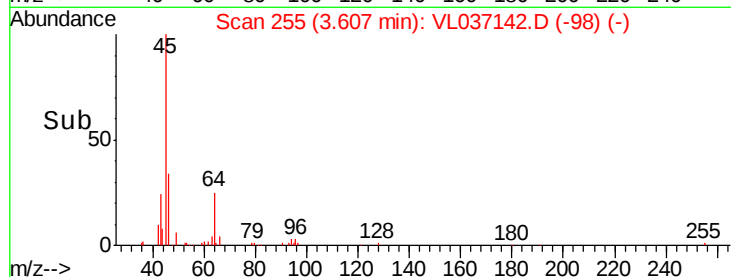
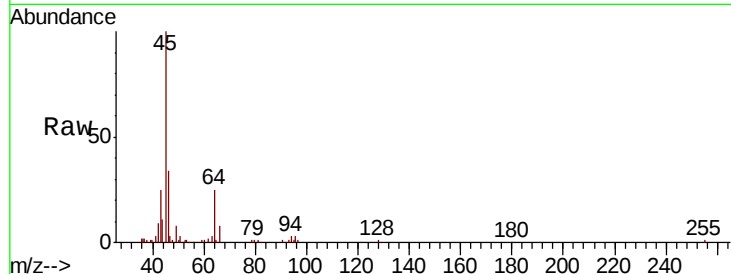




#13  
Ethanol  
Concen: 5.455 ppbv  
RT: 3.61 min Scan# 255  
Delta R.T. 0.01 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

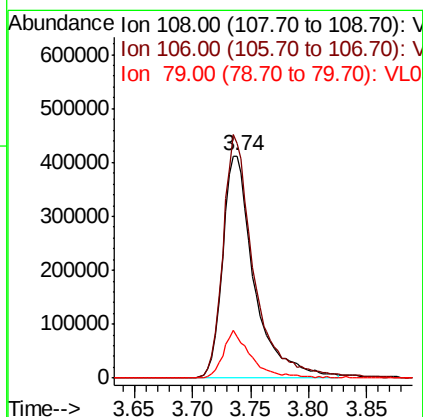
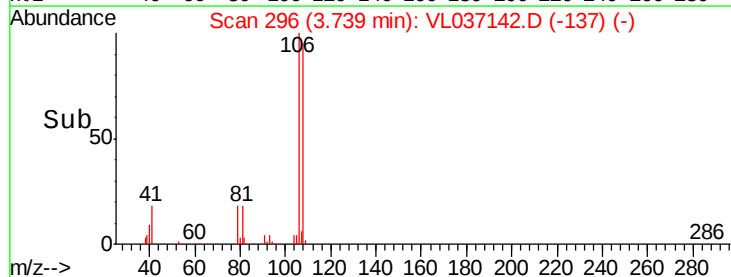
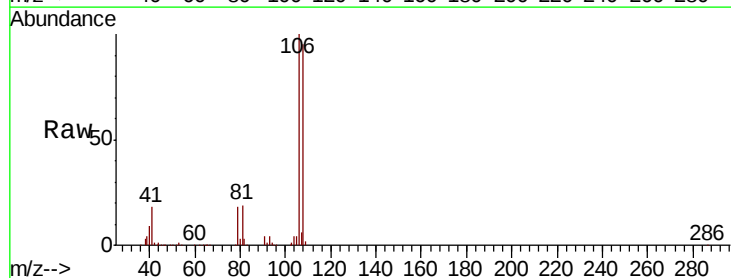
Instrument :  
MSVOA\_L  
ClientSampled :

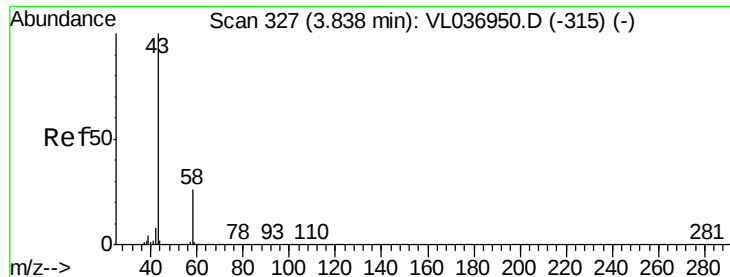
Tot Ion: 45 Resp: 64239  
Ion Ratio Lower Upper  
45 100  
46 75.8 16.3 65.3#



#14  
Bromoethene  
Concen: 11.824 ppbv  
RT: 3.74 min Scan# 296  
Delta R.T. 0.01 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 108 Resp: 783709  
Ion Ratio Lower Upper  
108 100  
106 107.7 86.5 129.7  
79 19.7 15.0 22.4





#15

Acetone

Concen: 9.553 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

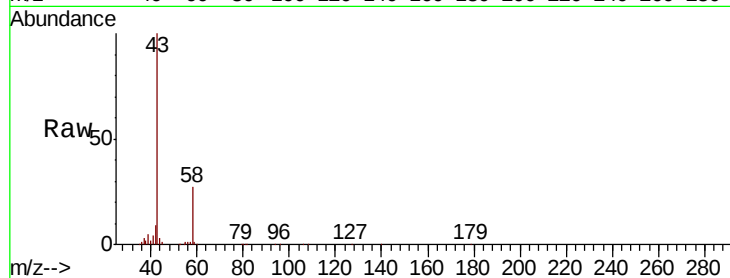
ClientSampleId :

Tot Ion: 43 Resp: 1316456

Ion Ratio Lower Upper

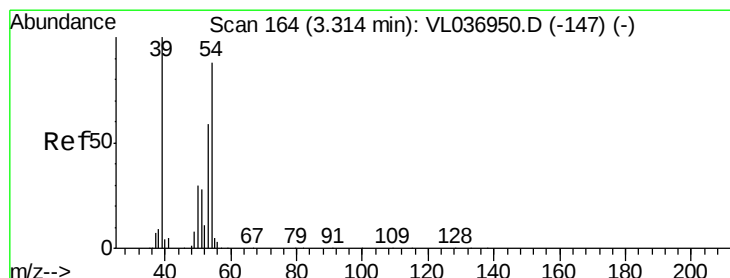
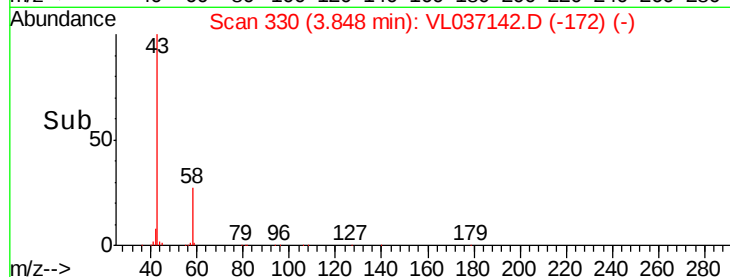
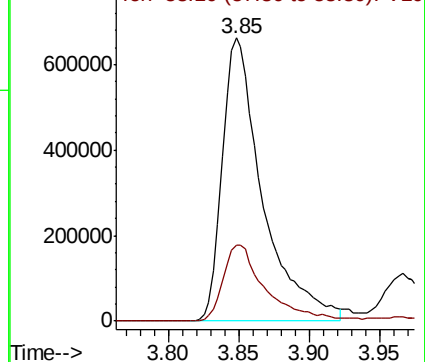
43 100

58 28.6 24.0 36.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 11.268 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.01 min

Lab File: VL037142.D

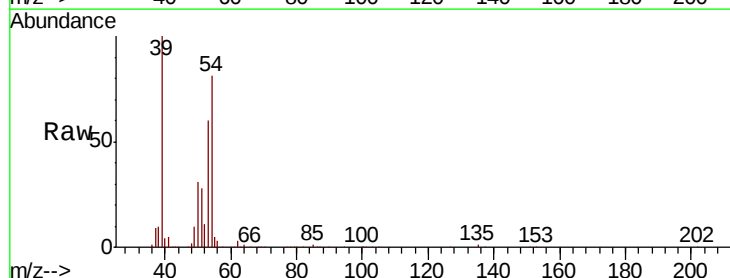
Acq: 8 Jun 2021 21:36

Tgt Ion: 39 Resp: 964721

Ion Ratio Lower Upper

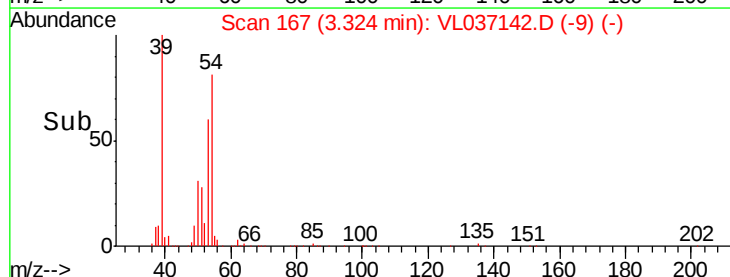
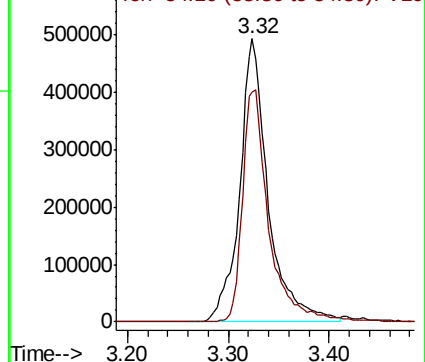
39 100

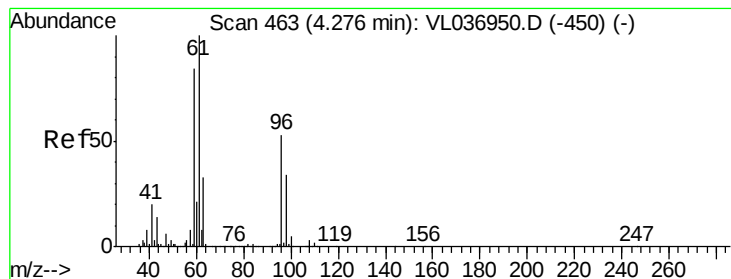
54 76.5 63.2 94.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



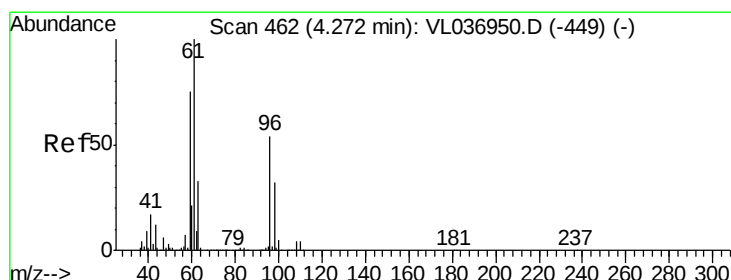
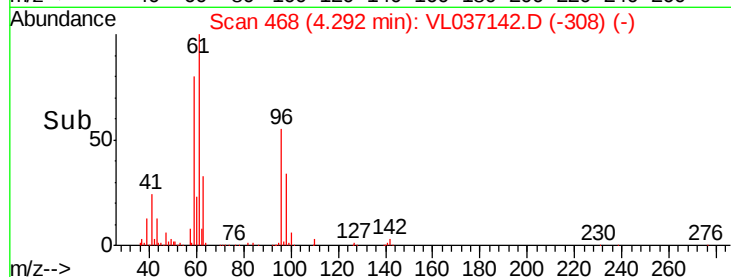
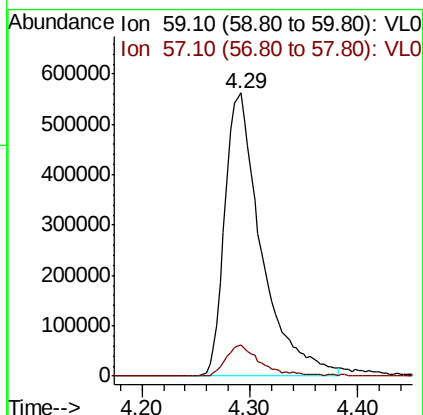
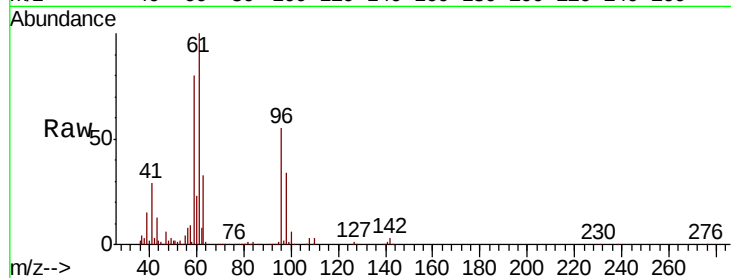


#17

tert-Butyl alcohol  
Concen: 10.529 ppbv  
RT: 4.29 min Scan# 468  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Instrument :  
MSVOA\_L  
ClientSampleId :

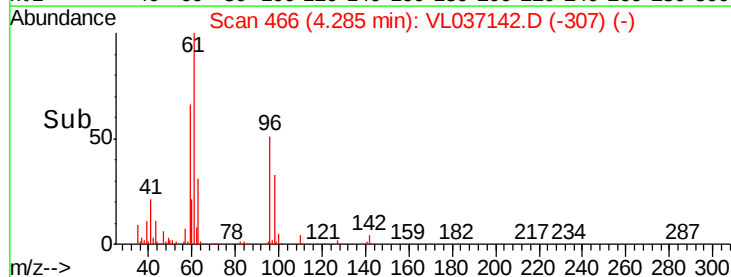
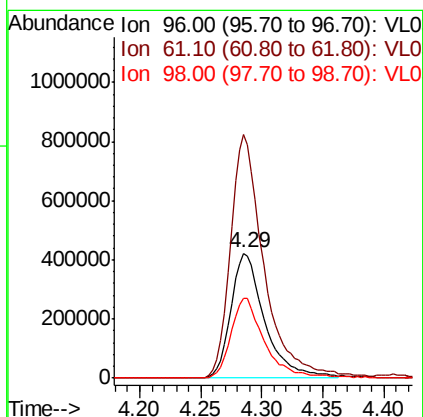
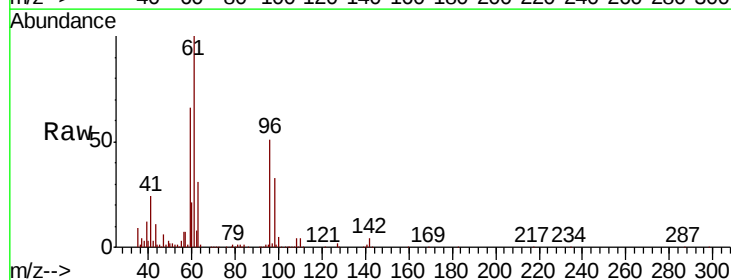
Tot Ion: 59 Resp: 1329088  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.3 12.5

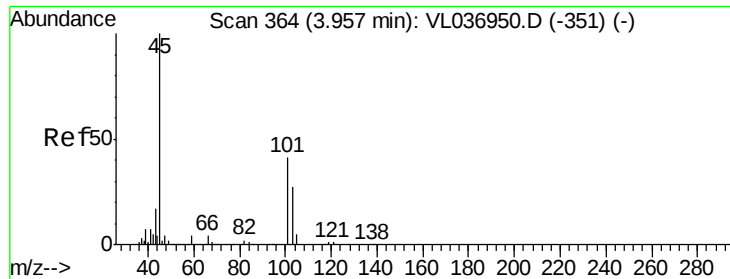


#18

1,1-Dichloroethene  
Concen: 11.732 ppbv  
RT: 4.29 min Scan# 466  
Delta R.T. 0.01 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 96 Resp: 816384  
Ion Ratio Lower Upper  
96 100  
61 195.1 148.2 222.4  
98 63.6 47.8 71.6



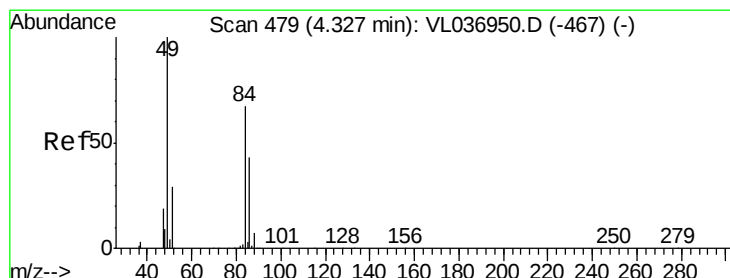
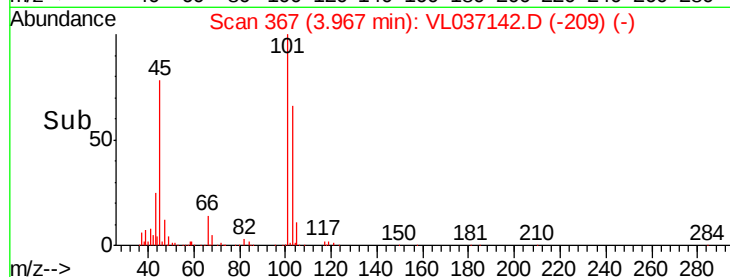
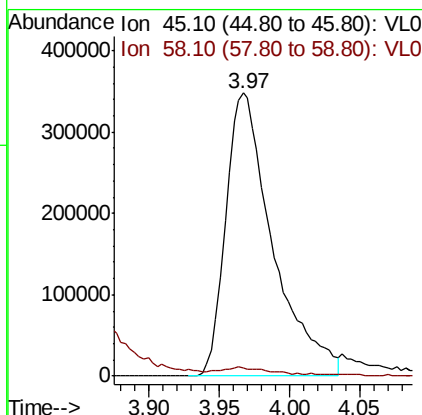
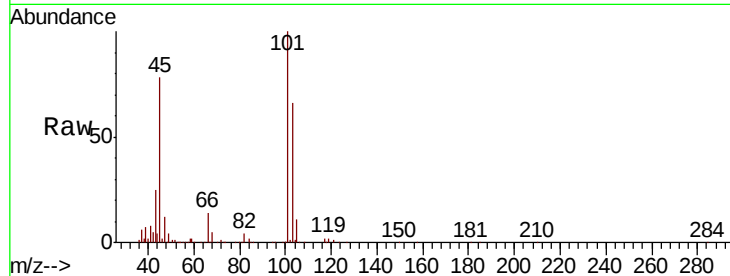


#19

Isopropyl Alcohol  
 Concen: 10.895 ppbv  
 RT: 3.97 min Scan# 367  
 Delta R.T. 0.01 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :

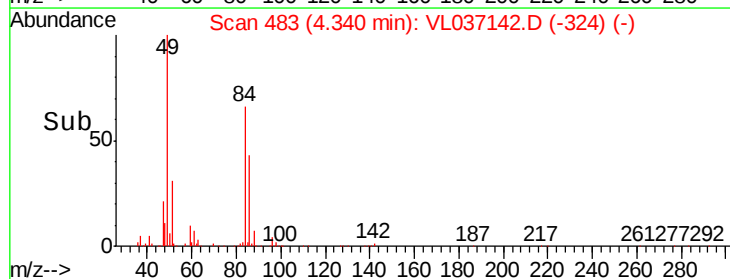
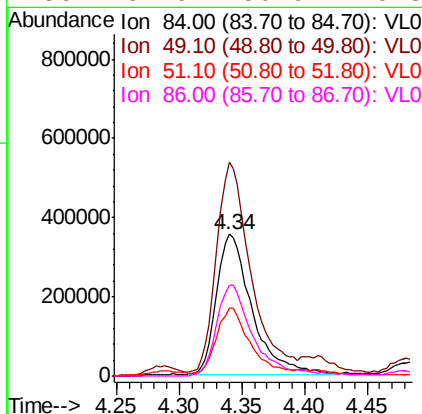
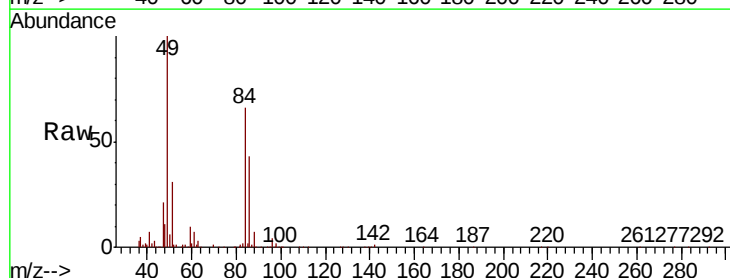
Tot Ion: 45 Resp: 807069  
 Ion Ratio Lower Upper  
 45 100  
 58 4.6 37.2 55.8#

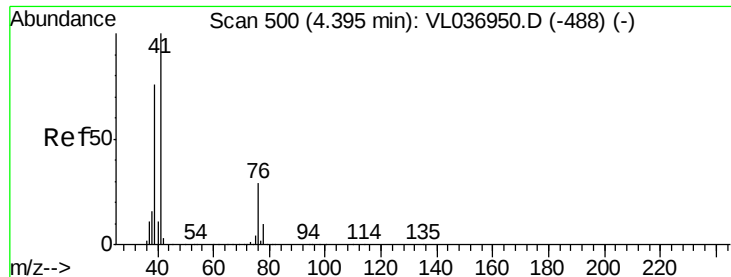


#20

Methylene Chloride  
 Concen: 9.523 ppbv  
 RT: 4.34 min Scan# 483  
 Delta R.T. 0.01 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion: 84 Resp: 703487  
 Ion Ratio Lower Upper  
 84 100  
 49 149.3 119.8 179.6  
 51 46.2 35.1 52.7  
 86 64.9 50.9 76.3





#21

Allvl Chloride

Concen: 10.652 ppbv

RT: 4.41 min Scan# 505

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :  
MSVOA\_L  
ClientSampleId :

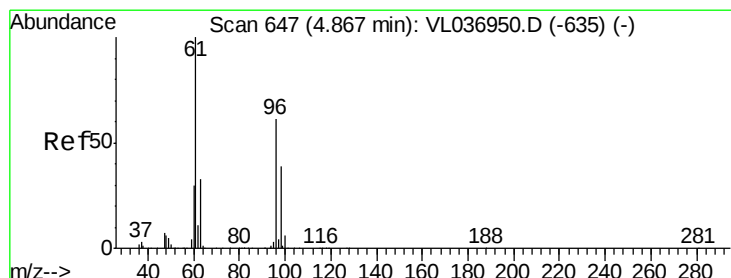
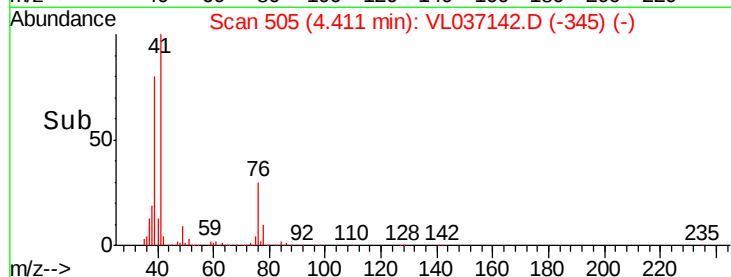
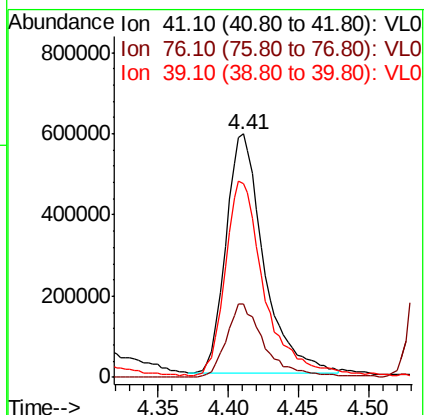
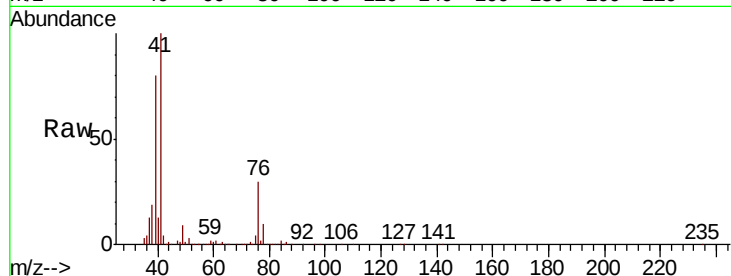
Tot Ion: 41 Resp: 1107444

Ion Ratio Lower Upper

41 100

76 30.9 24.9 37.3

39 84.4 63.7 95.5



#22

trans-1,2-Dichloroethene

Concen: 12.091 ppbv

RT: 4.88 min Scan# 652

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

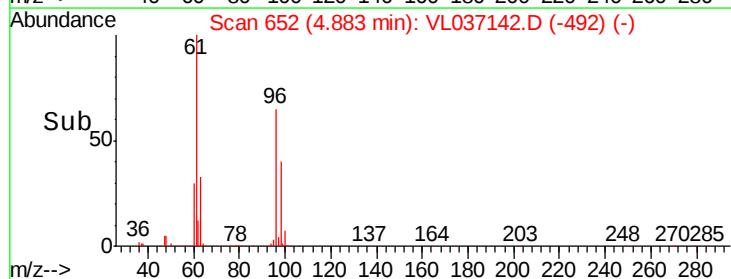
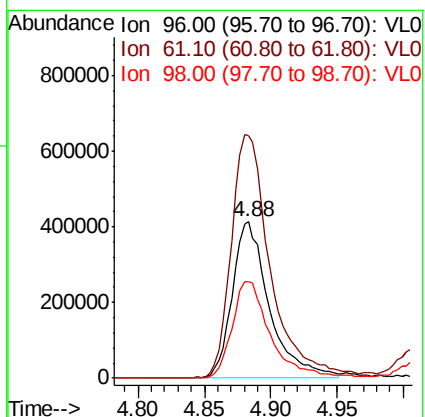
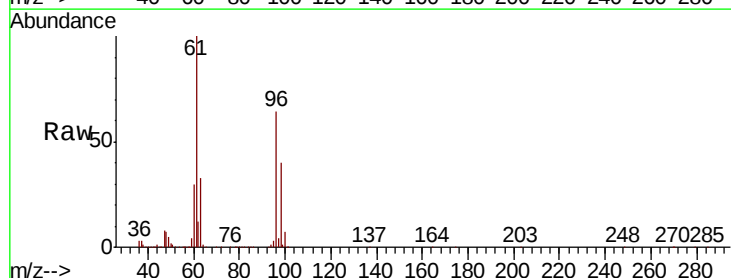
Tgt Ion: 96 Resp: 806360

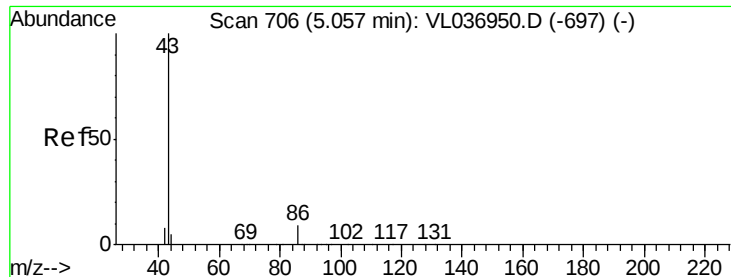
Ion Ratio Lower Upper

96 100

61 155.2 130.6 196.0

98 62.0 50.8 76.2



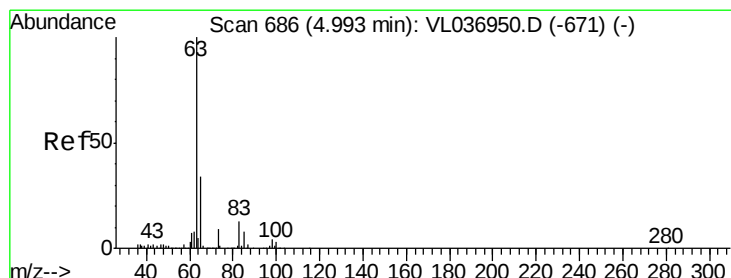
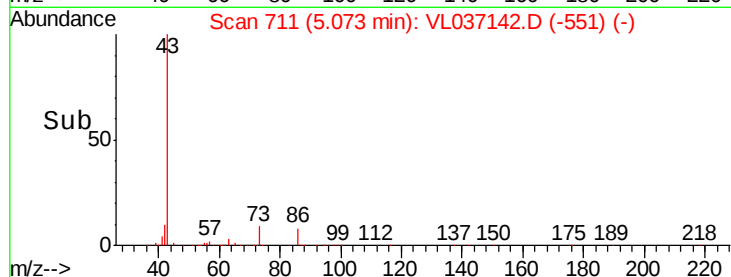
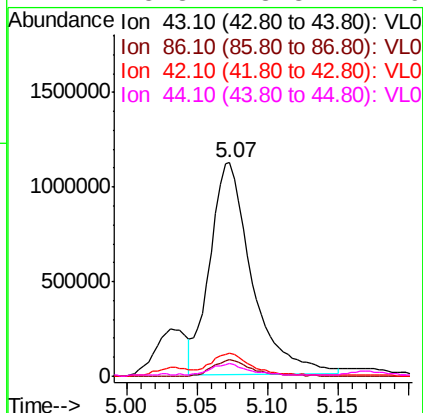
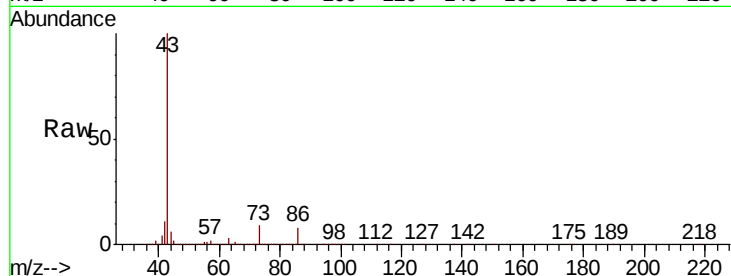


#23  
 Vinyl Acetate  
 Concen: 10.601 ppbv  
 RT: 5.07 min Scan# 711  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 43 Resp: 2318831

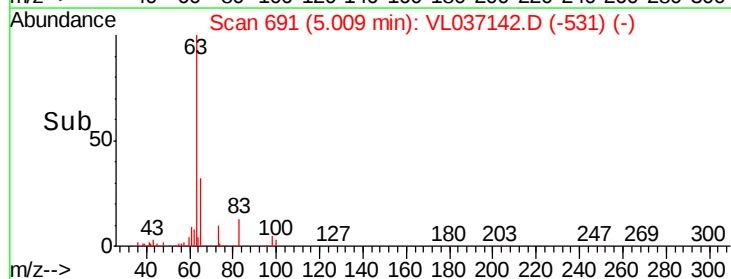
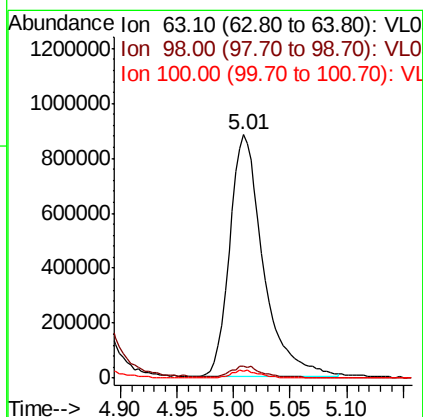
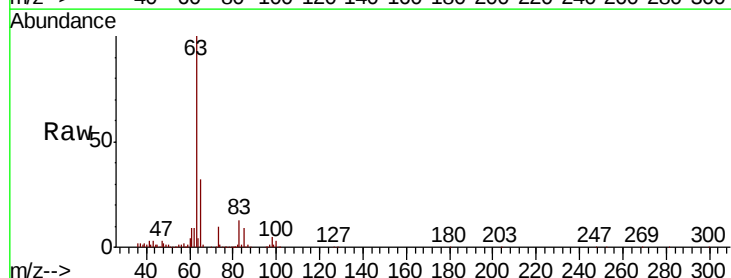
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.6   | 5.8   | 8.8   |
| 42  | 10.3  | 7.4   | 11.2  |
| 44  | 5.3   | 3.3   | 4.9#  |

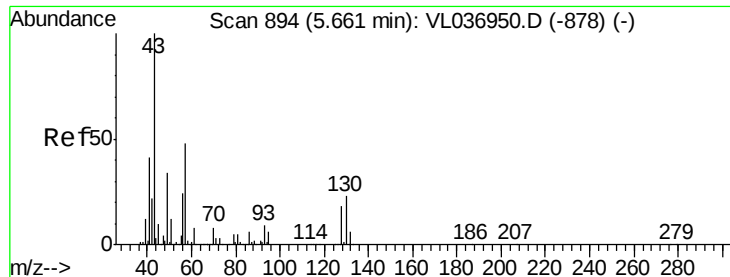


#24  
 1,1-Dichloroethane  
 Concen: 11.593 ppbv  
 RT: 5.01 min Scan# 691  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion: 63 Resp: 1825295

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.6   | 2.3   | 6.9   |
| 100 | 2.9   | 1.4   | 4.0   |





#25

Ethyl Acetate

Concen: 10.136 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.02 min

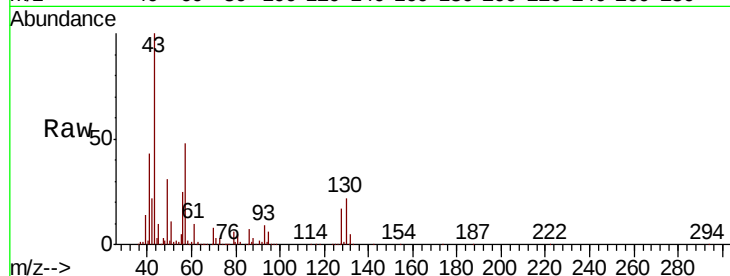
Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 3356447

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.6   | 7.8   | 11.8  |
| 61  | 9.9   | 7.8   | 11.8  |
| 70  | 7.0   | 5.6   | 8.4   |



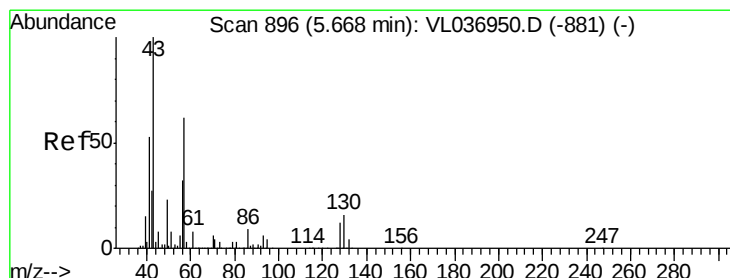
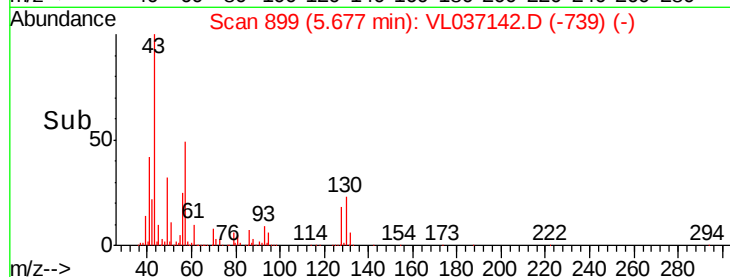
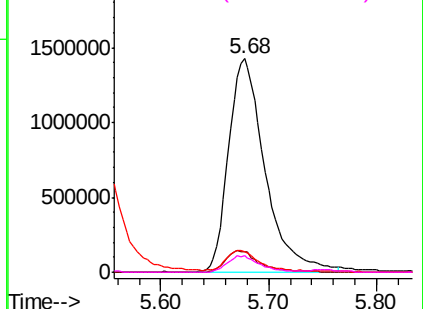
Abundance

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: 9.587 ppbv

RT: 5.68 min Scan# 901

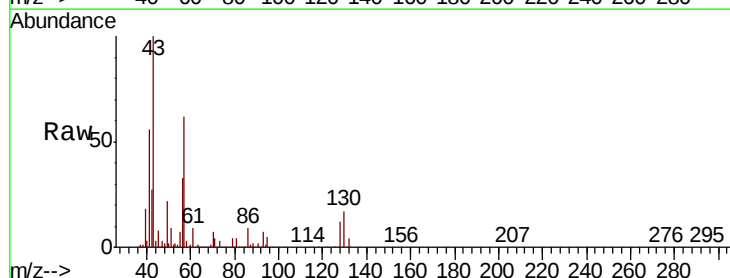
Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Tgt Ion: 57 Resp: 1621838

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 93.9  | 70.5  | 105.7 |
| 43  | 211.6 | 165.8 | 248.8 |
| 56  | 54.2  | 42.2  | 63.4  |



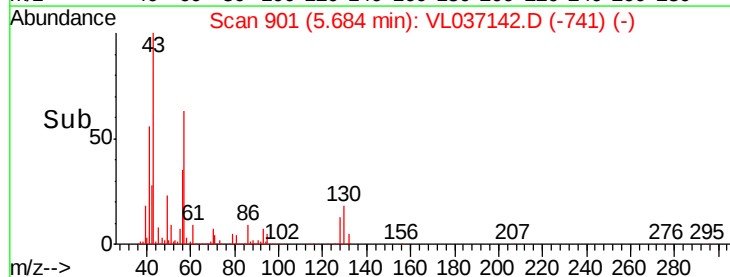
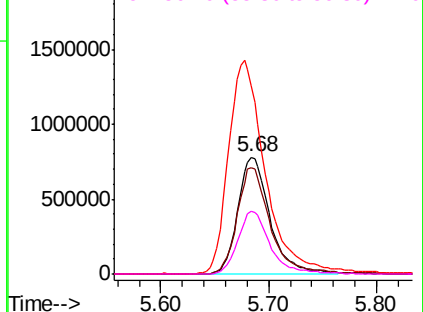
Abundance

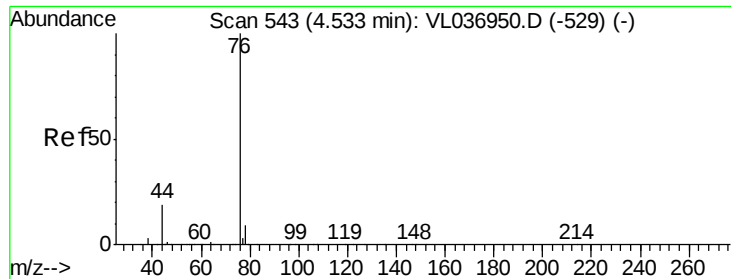
Ion 57.10 (56.80 to 57.80): VL0

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

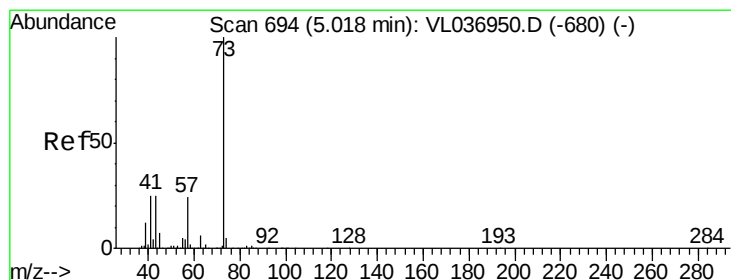
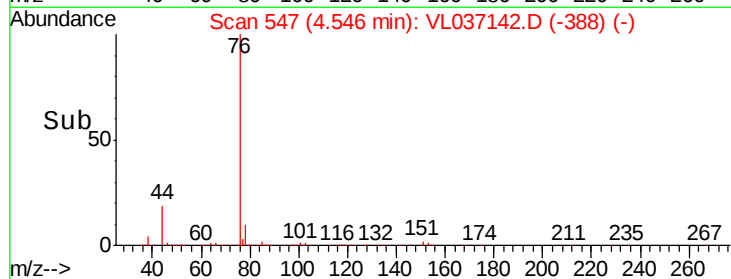
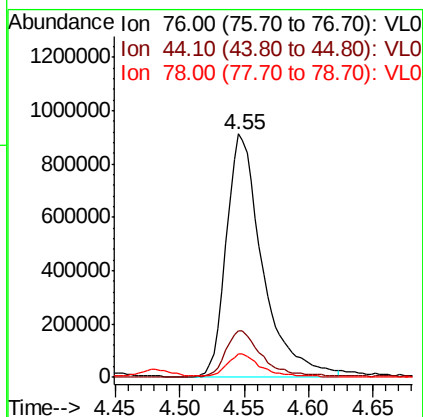
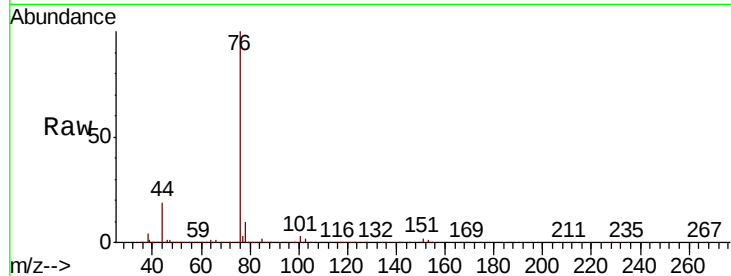




#27  
Carbon Disulfide  
Concen: 10.410 ppbv  
RT: 4.55 min Scan# 547  
Delta R.T. 0.01 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

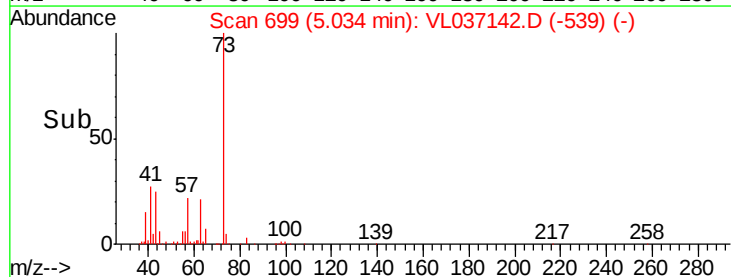
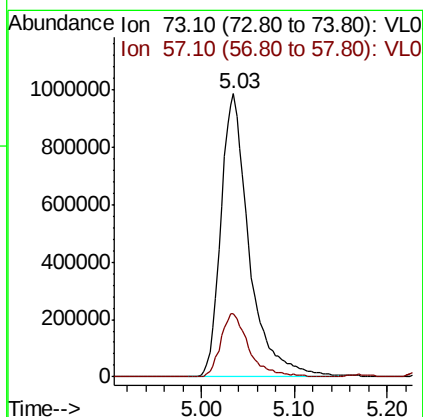
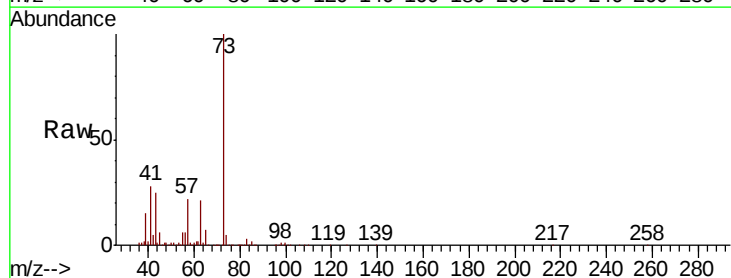
Instrument :  
MSVOA\_L  
ClientSampleId :

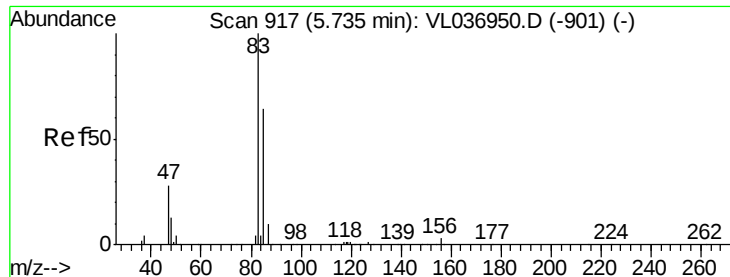
Tot Ion: 76 Resp: 1774867  
Ion Ratio Lower Upper  
76 100  
44 19.0 15.5 23.3  
78 9.5 7.8 11.6



#28  
Methyl tert-Butyl Ether  
Concen: 10.294 ppbv  
RT: 5.03 min Scan# 699  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 73 Resp: 2087506  
Ion Ratio Lower Upper  
73 100  
57 22.4 18.3 27.5





#29

Chloroform

Concen: 11.353 ppbv

RT: 5.75 min Scan# 922

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

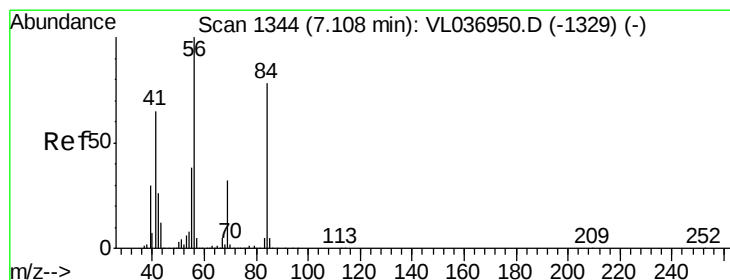
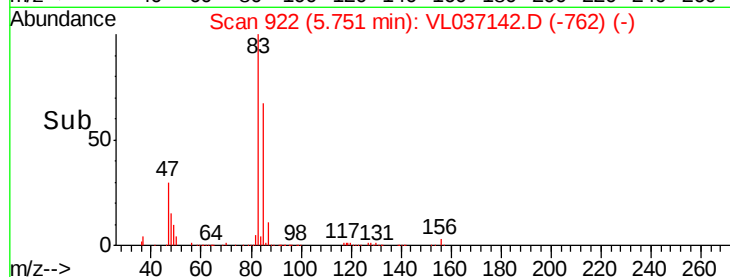
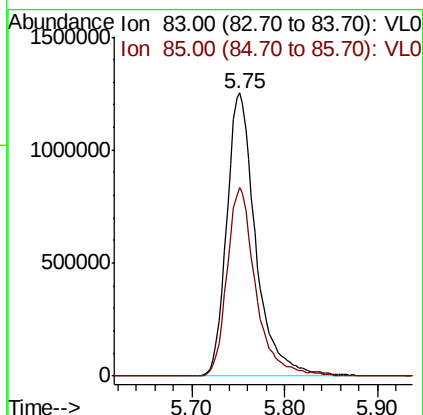
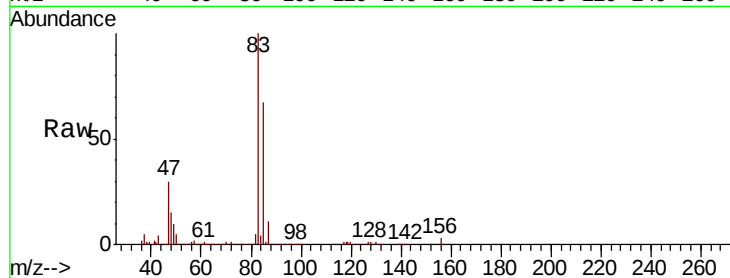
ClientSampleId :

Tot Ion: 83 Resp: 2713442

Ion Ratio Lower Upper

83 100

85 66.2 51.1 76.7



#30

Cyclohexane

Concen: 10.044 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

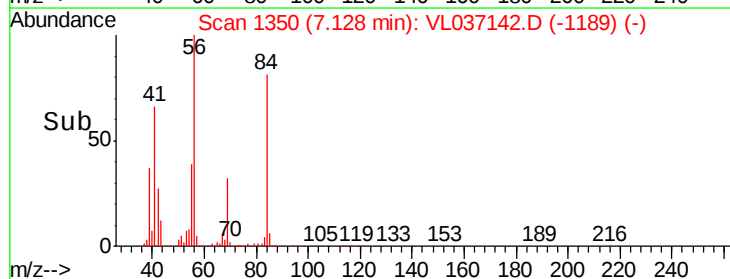
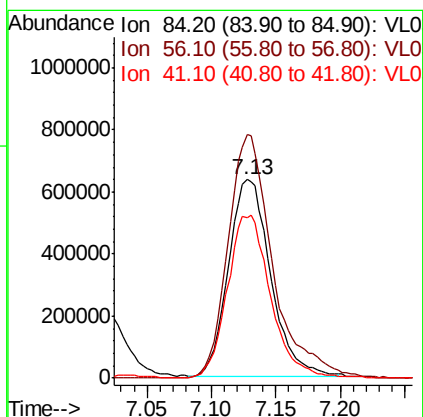
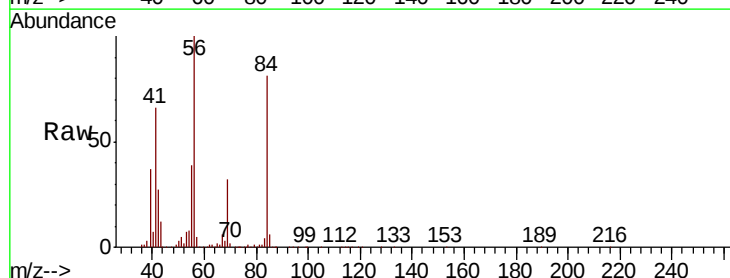
Tgt Ion: 84 Resp: 1443933

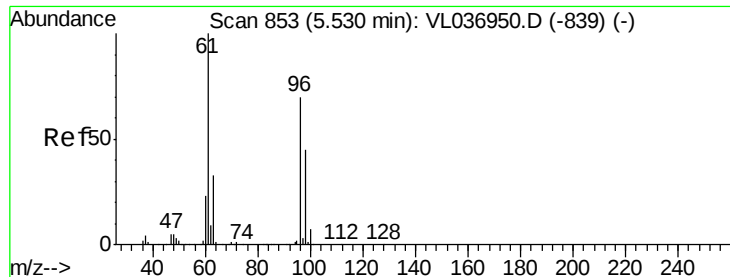
Ion Ratio Lower Upper

84 100

56 131.8 107.9 161.9

41 85.1 65.5 98.3



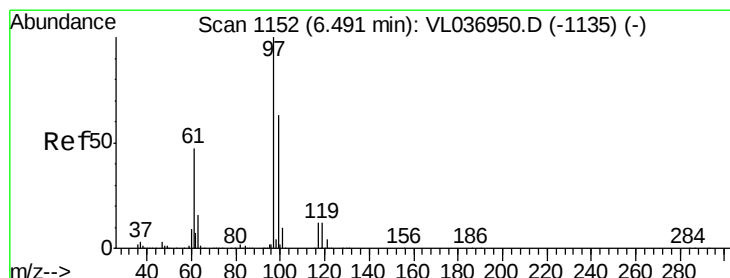
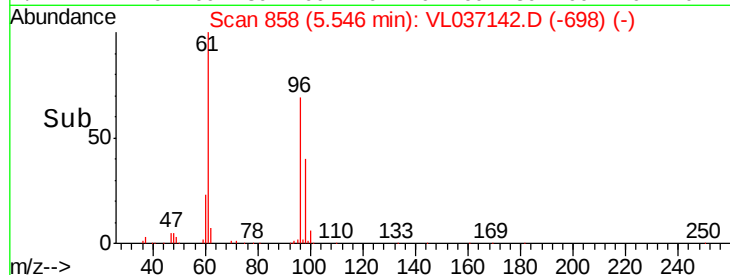
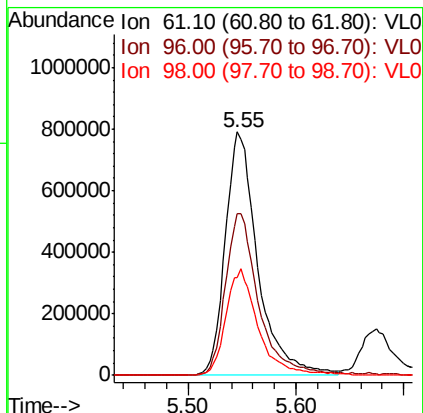
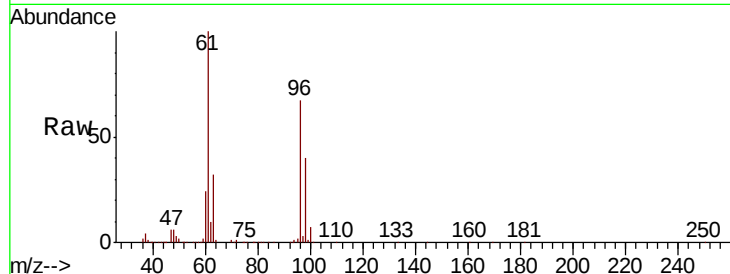


#31

cis-1,2-Dichloroethene  
 Concen: 10.934 ppbv  
 RT: 5.55 min Scan# 858  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :

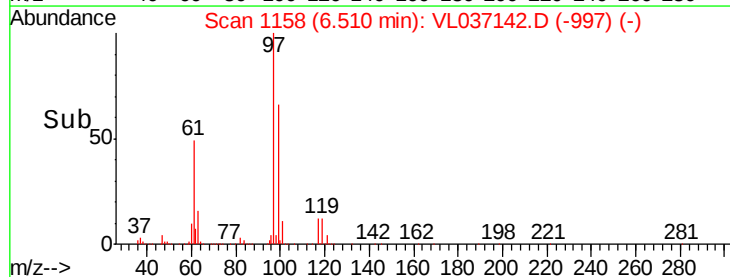
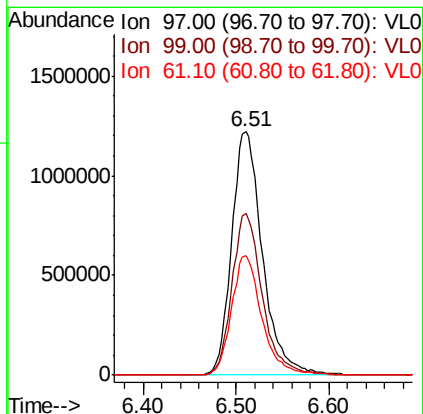
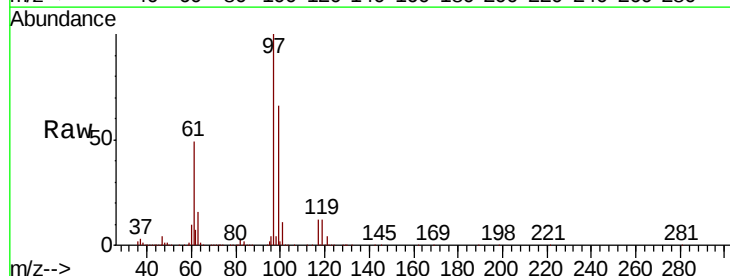
Tot Ion: 61 Resp: 1658422  
 Ion Ratio Lower Upper  
 61 100  
 96 66.5 55.9 83.9  
 98 40.2 35.6 53.4

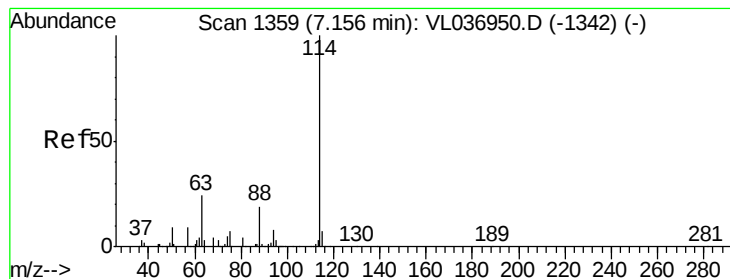


#32

1,1,1-Trichloroethane  
 Concen: 10.982 ppbv  
 RT: 6.51 min Scan# 1158  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion: 97 Resp: 2818320  
 Ion Ratio Lower Upper  
 97 100  
 99 65.3 51.9 77.9  
 61 48.5 37.6 56.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

ClientSampleId :

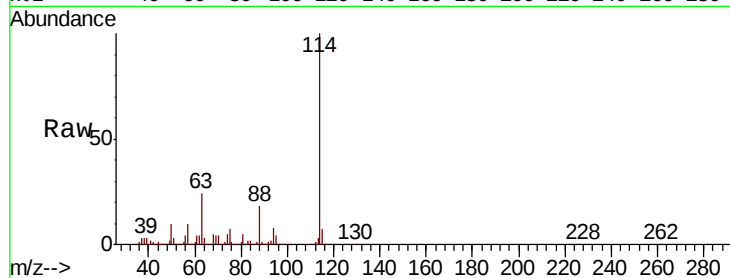
Tot Ion:114 Resp: 4049196

Ion Ratio Lower Upper

114 100

63 24.8 19.6 29.4

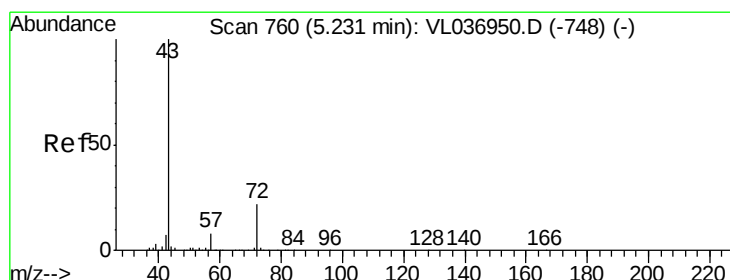
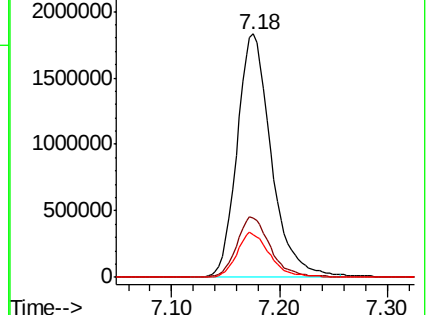
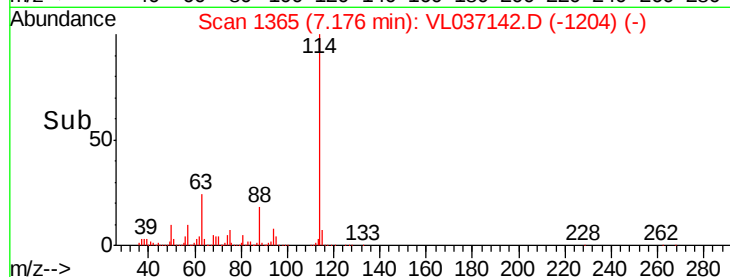
88 17.9 14.6 21.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.675 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.01 min

Lab File: VL037142.D

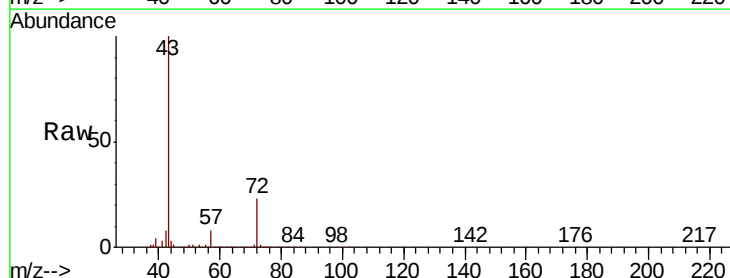
Acq: 8 Jun 2021 21:36

Tgt Ion: 43 Resp: 1573999

Ion Ratio Lower Upper

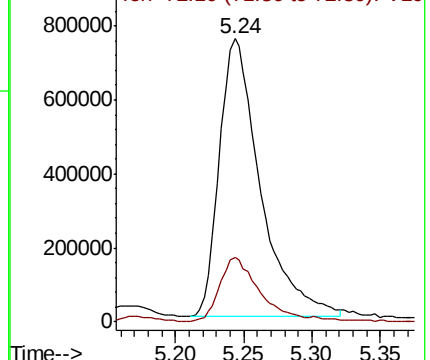
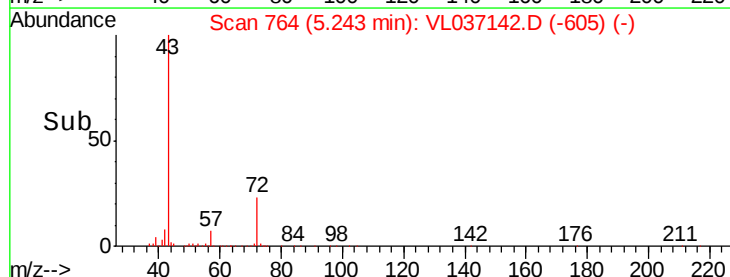
43 100

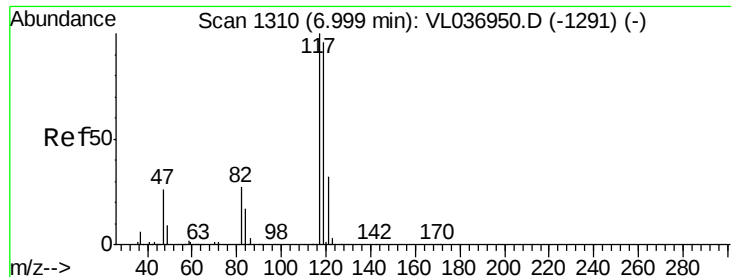
72 23.3 19.0 28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

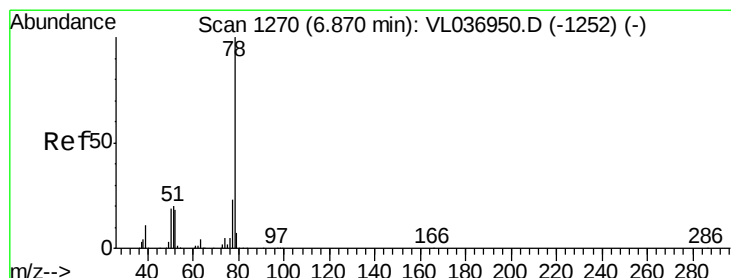
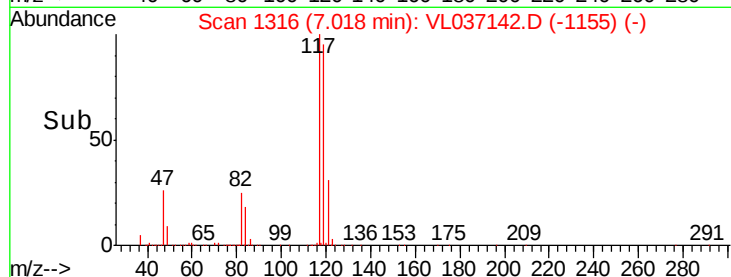
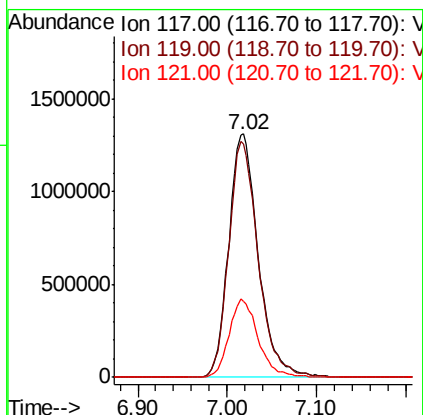
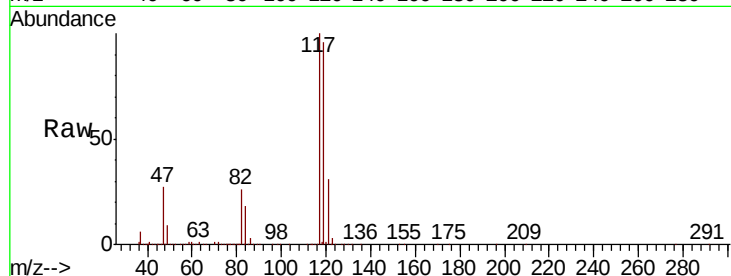




#35  
Carbon Tetrachloride  
Concen: 11.188 ppbv  
RT: 7.02 min Scan# 1316  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

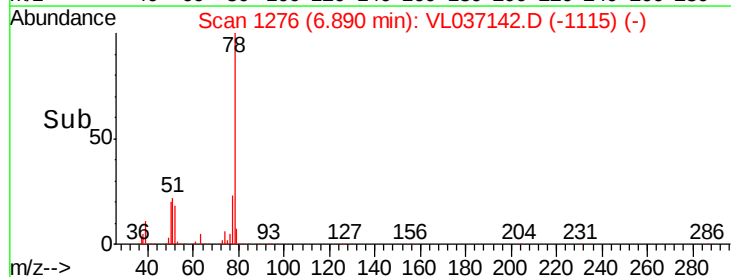
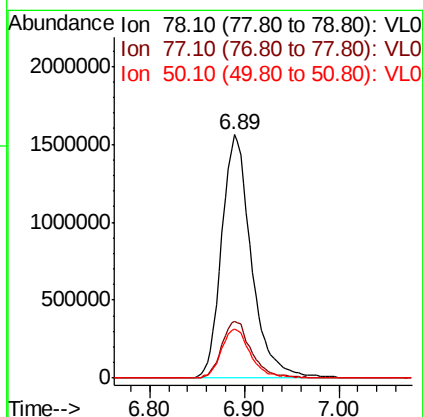
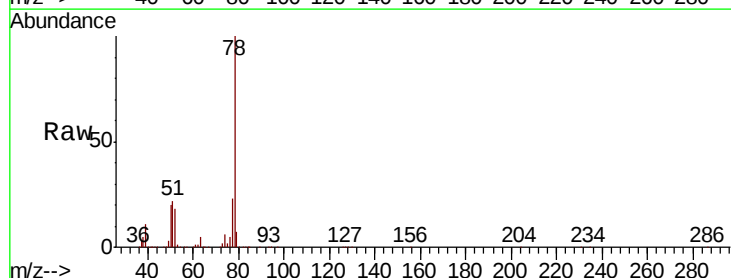
Instrument :  
MSVOA\_L  
ClientSampleId :

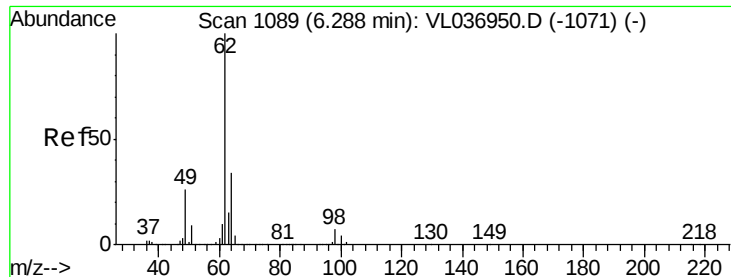
Tot Ion:117 Resp: 3010053  
Ion Ratio Lower Upper  
117 100  
119 96.1 76.6 114.8  
121 31.3 25.8 38.6



#36  
Benzene  
Concen: 9.750 ppbv  
RT: 6.89 min Scan# 1276  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 78 Resp: 3400512  
Ion Ratio Lower Upper  
78 100  
77 23.4 18.6 28.0  
50 20.2 15.0 22.4

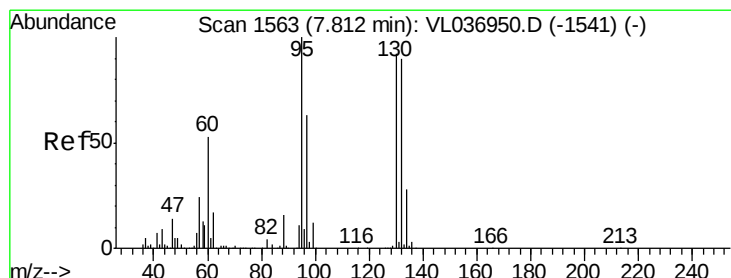
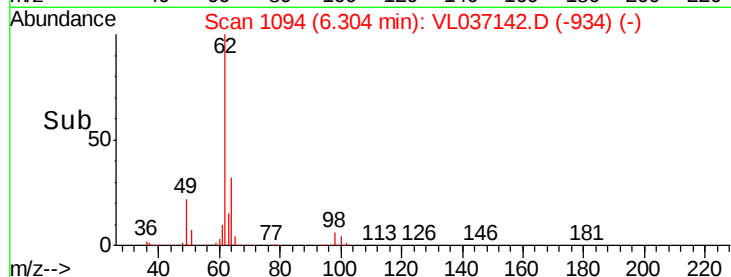
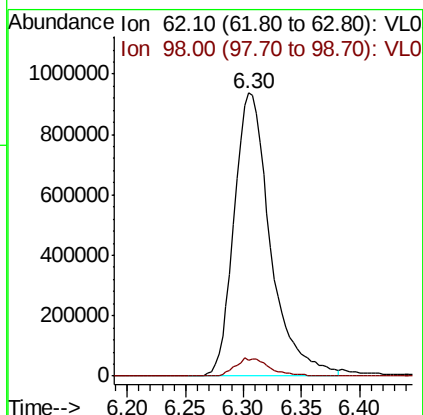
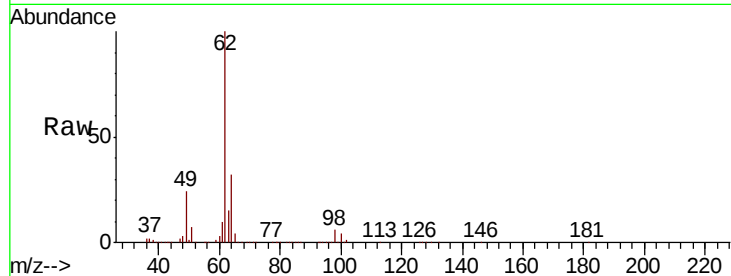




#37  
 1,2-Dichloroethane  
 Concen: 11.789 ppbv  
 RT: 6.30 min Scan# 1094  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

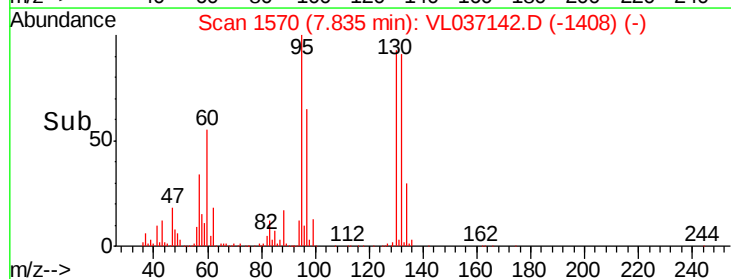
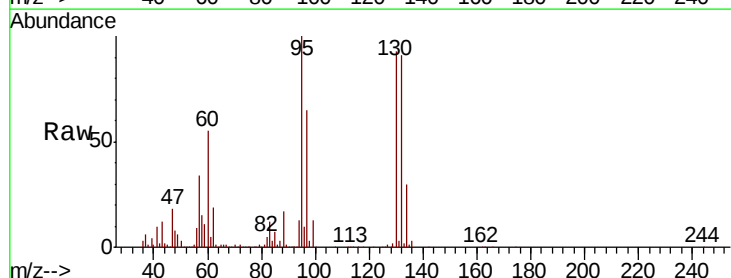
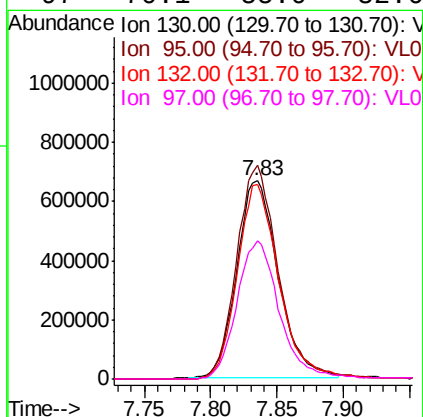
Instrument :  
 MSVOA\_L  
 ClientSampleId :

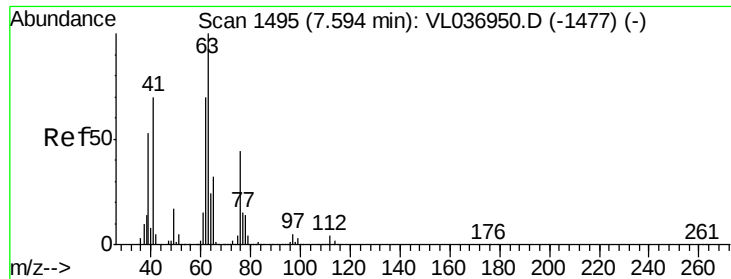
Tot Ion: 62 Resp: 2038612  
 Ion Ratio Lower Upper  
 62 100  
 98 6.2 5.5 8.3



#38  
 Trichloroethene  
 Concen: 9.783 ppbv  
 RT: 7.83 min Scan# 1570  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion:130 Resp: 1459637  
 Ion Ratio Lower Upper  
 130 100  
 95 108.1 86.9 130.3  
 132 98.8 78.4 117.6  
 97 70.1 55.0 82.6

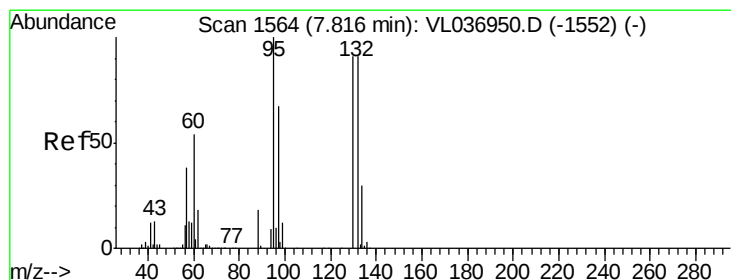
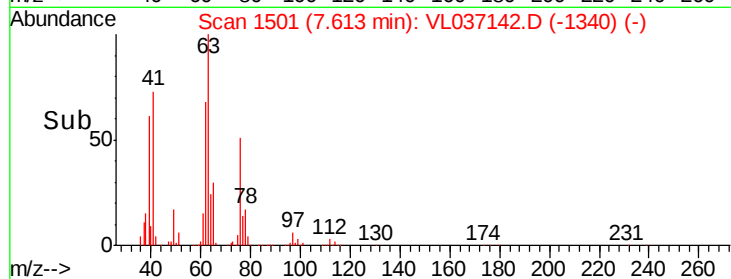
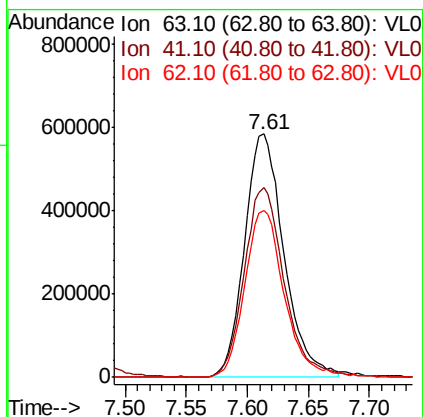
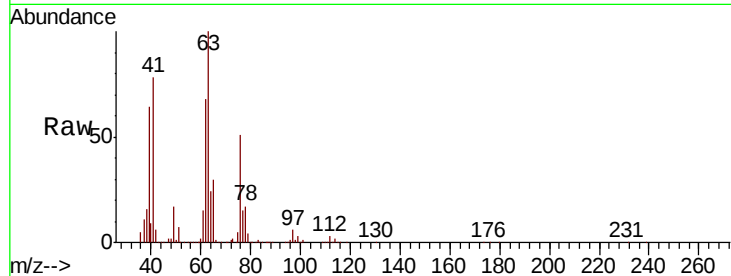




#39  
 1,2-Dichloropropane  
 Concen: 9.672 ppbv  
 RT: 7.61 min Scan# 1501  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

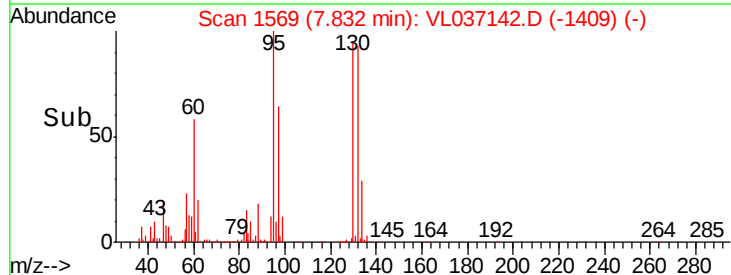
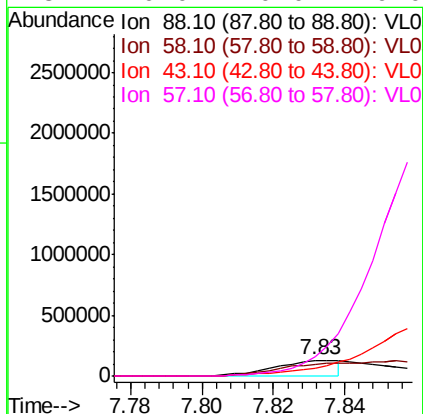
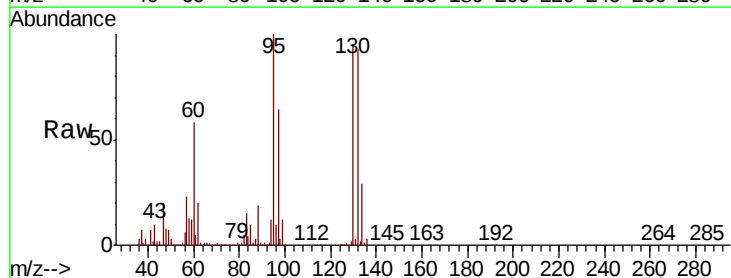
Instrument :  
 MSVOA\_L  
 ClientSampleId :

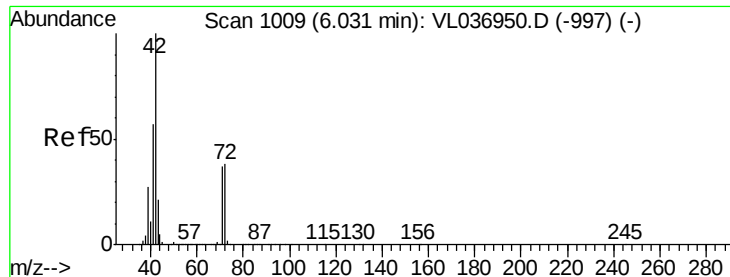
Tot Ion: 63 Resp: 1299517  
 Ion Ratio Lower Upper  
 63 100  
 41 78.0 55.7 83.5  
 62 68.3 56.2 84.4



#40  
 1,4-Dioxane  
 Concen: 4.972 ppbv  
 RT: 7.83 min Scan# 1569  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion: 88 Resp: 157718  
 Ion Ratio Lower Upper  
 88 100  
 58 0.0 0.0 0.0  
 43 0.0 0.0 0.0  
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.075 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

ClientSampleId :

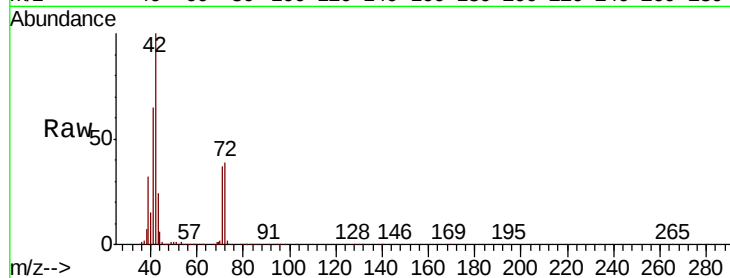
Tot Ion: 42 Resp: 762101

Ion Ratio Lower Upper

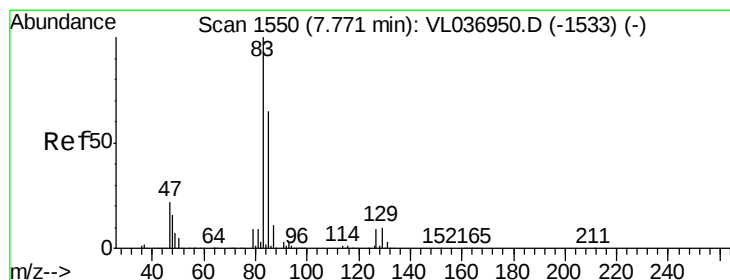
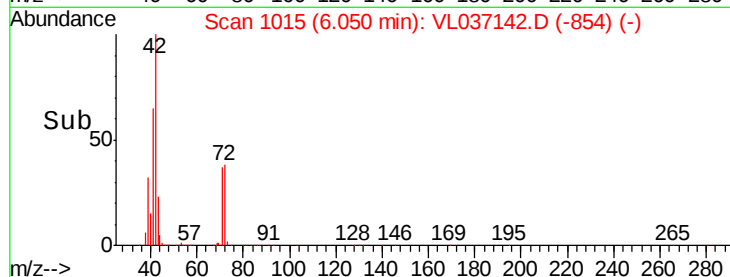
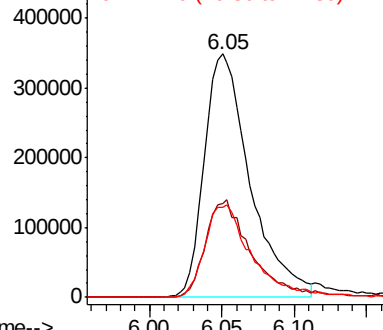
42 100

72 41.3 31.4 47.2

71 40.2 30.4 45.6



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 11.158 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

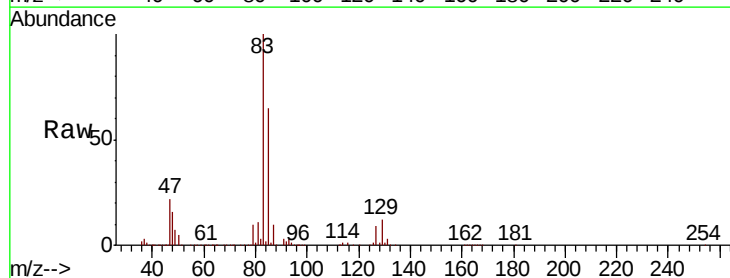
Tgt Ion: 83 Resp: 2918906

Ion Ratio Lower Upper

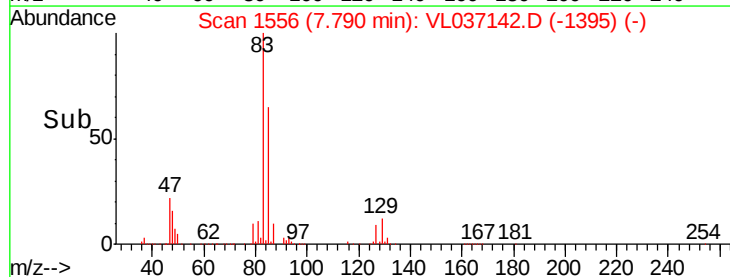
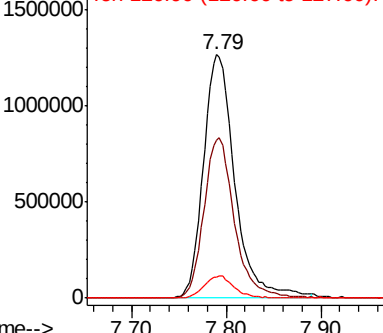
83 100

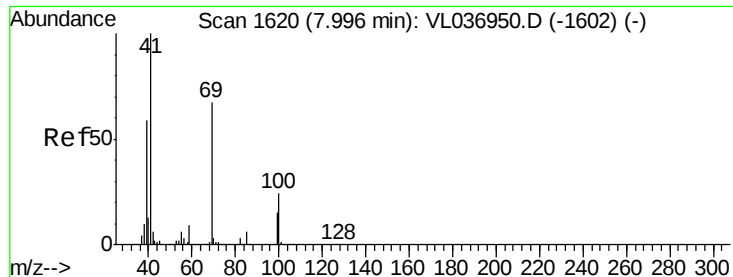
85 64.8 51.7 77.5

127 8.8 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V

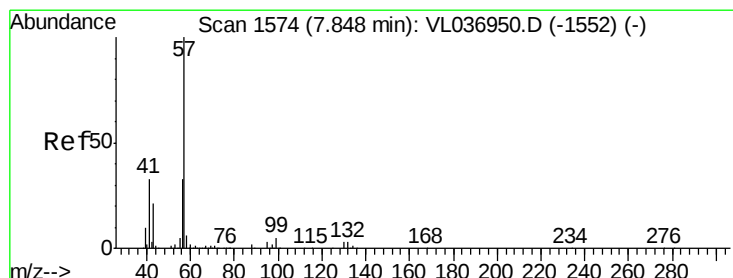
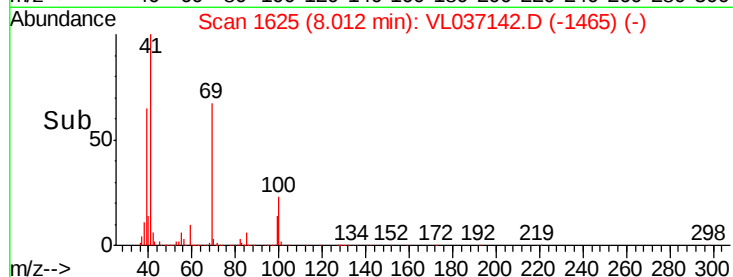
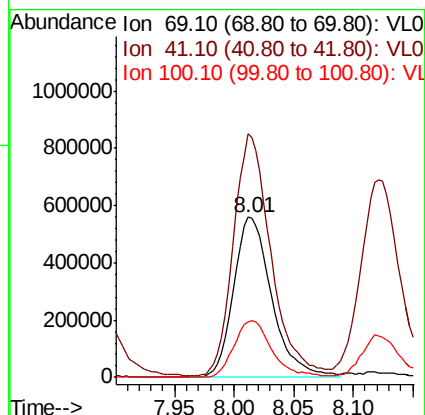
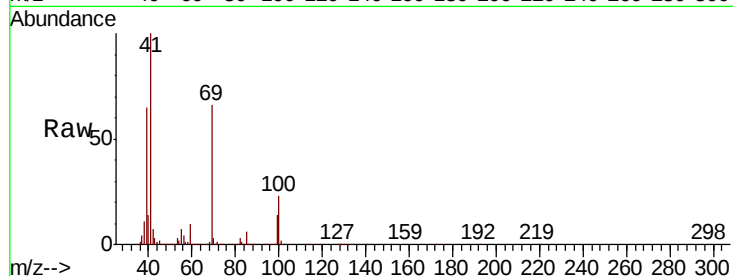




#43  
Methvl Methacrilate  
Concen: 10.366 ppbv  
RT: 8.01 min Scan# 1625  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

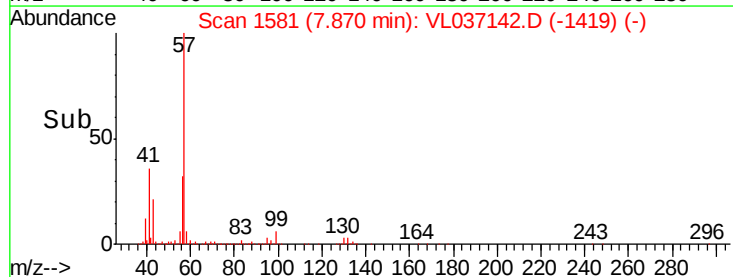
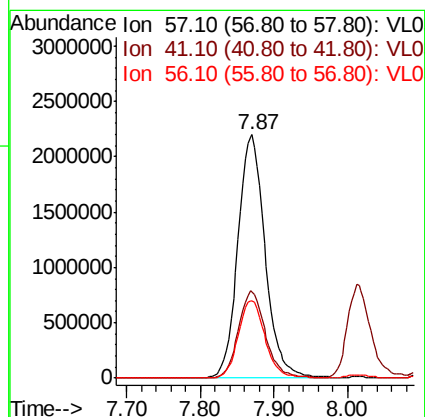
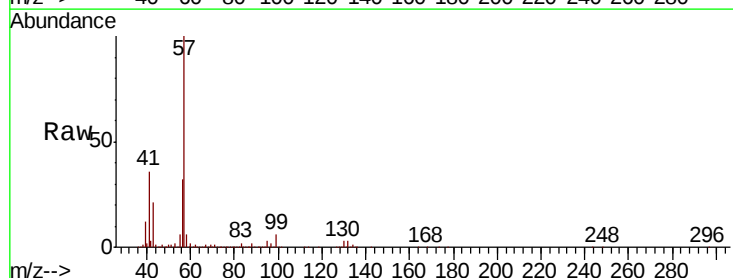
Instrument :  
MSVOA\_L  
ClientSampled :

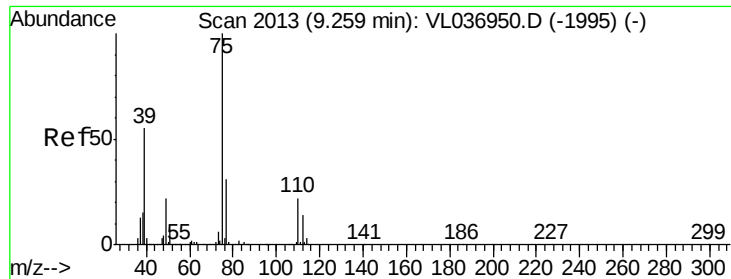
Tot Ion: 69 Resp: 1246164  
Ion Ratio Lower Upper  
69 100  
41 149.3 118.6 178.0  
100 35.1 28.2 42.4



#44  
2,2,4-Trimethylpentane  
Concen: 9.488 ppbv  
RT: 7.87 min Scan# 1581  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 57 Resp: 5677641  
Ion Ratio Lower Upper  
57 100  
41 35.3 27.0 40.4  
56 31.4 25.4 38.2

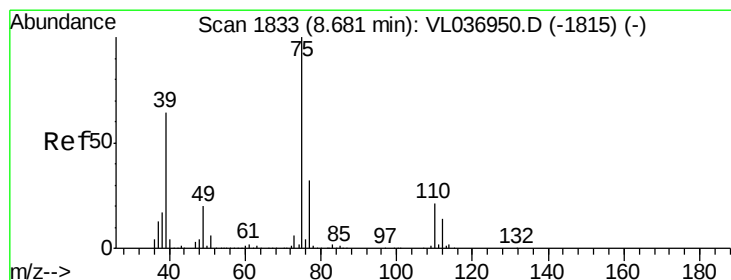
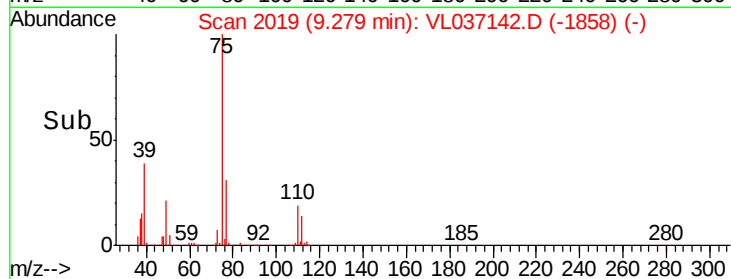
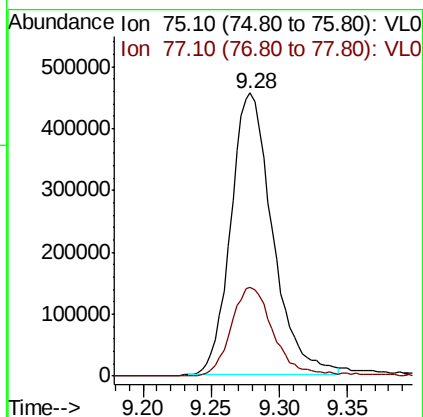
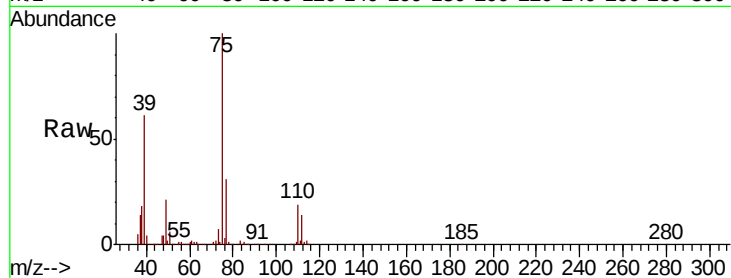




#45  
t-1,3-Dichloropropene  
Concen: 10.522 ppbv  
RT: 9.28 min Scan# 2019  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

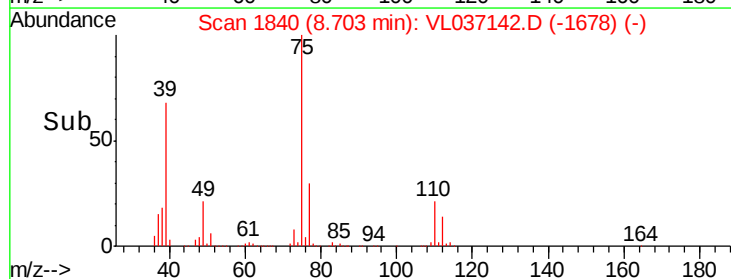
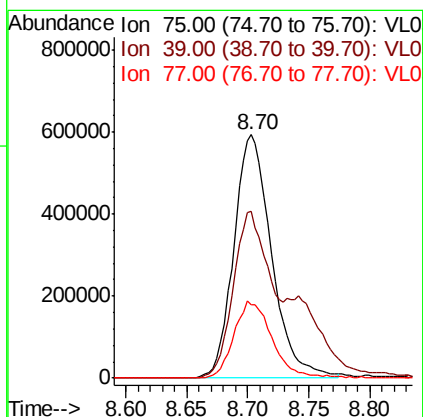
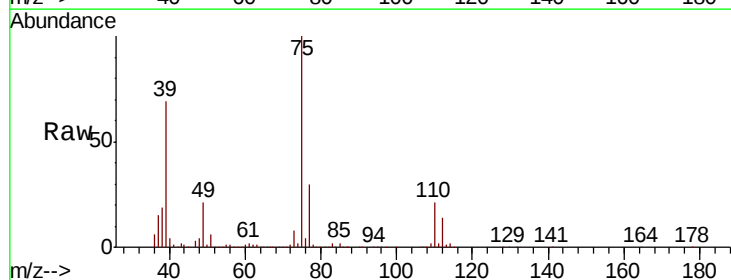
Instrument :  
MSVOA\_L  
ClientSampled :

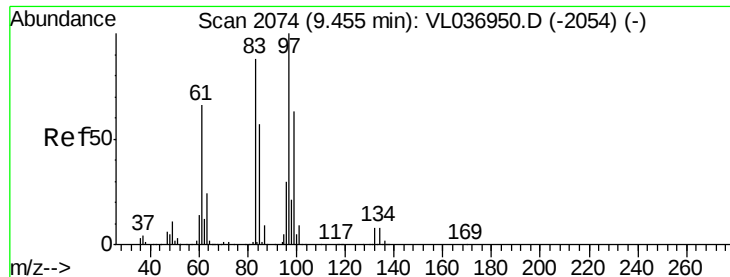
Tot Ion: 75 Resp: 966340  
Ion Ratio Lower Upper  
75 100  
77 31.4 24.4 36.6



#46  
cis-1,3-Dichloropropene  
Concen: 10.282 ppbv  
RT: 8.70 min Scan# 1840  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 75 Resp: 1270202  
Ion Ratio Lower Upper  
75 100  
39 68.5 51.5 77.3  
77 30.0 25.9 38.9

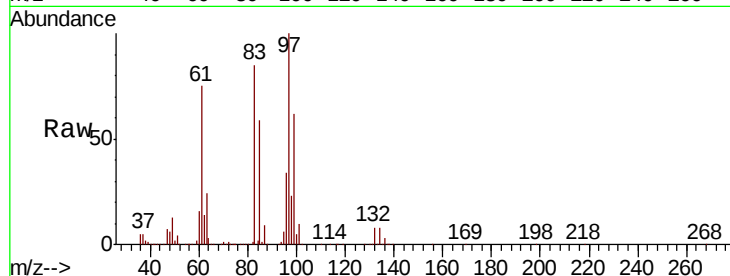




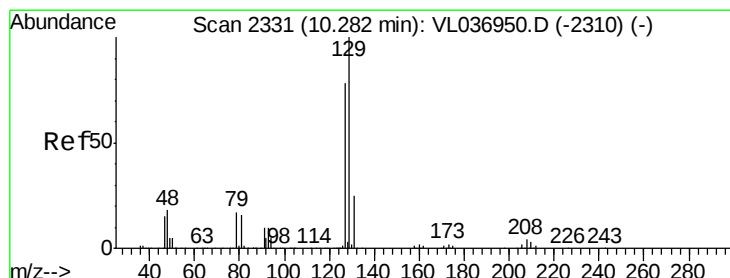
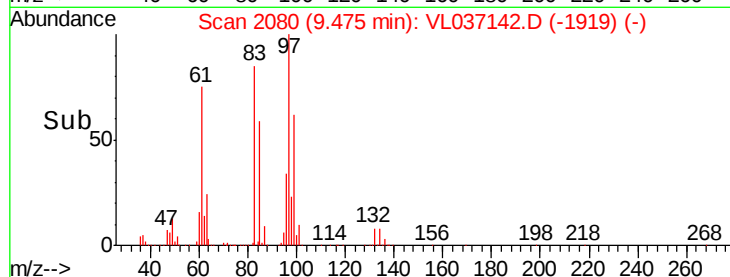
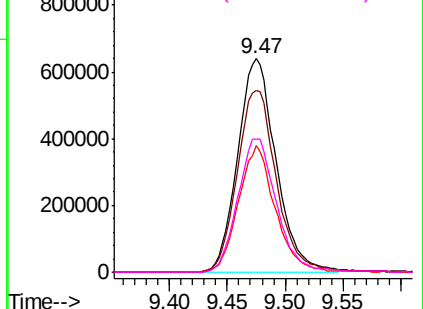
#47  
 1,1,2-Trichloroethane  
 Concen: 10.458 ppbv  
 RT: 9.47 min Scan# 2080  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Instrument :  
 MSVOA\_L  
 ClientSampled :

Tot Ion: 97 Resp: 1470647  
 Ion Ratio Lower Upper  
 97 100  
 83 85.1 70.4 105.6  
 85 59.1 45.5 68.3  
 99 62.5 50.2 75.2

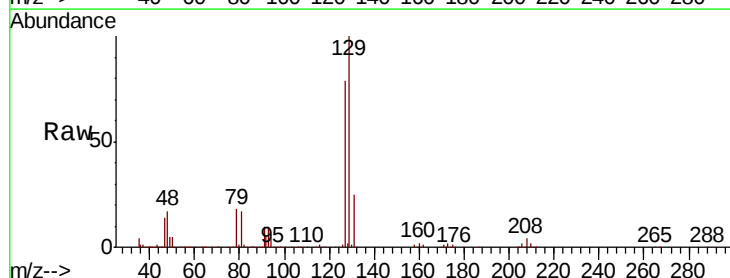


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 1000000 Ion 83.00 (82.70 to 83.70): VL0  
 800000 Ion 85.00 (84.70 to 85.70): VL0  
 600000 Ion 99.00 (98.70 to 99.70): VL0

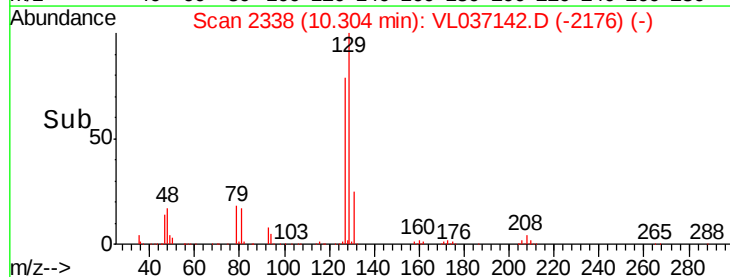
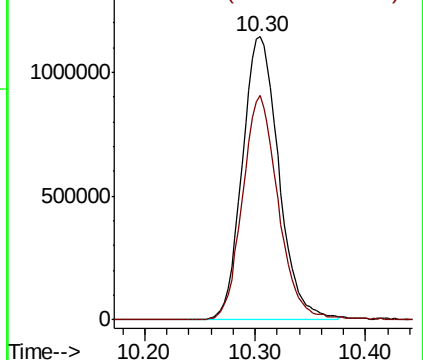


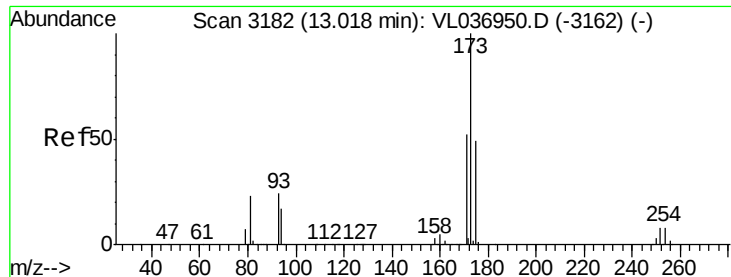
#48  
 Dibromochloromethane  
 Concen: 11.511 ppbv  
 RT: 10.30 min Scan# 2338  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion: 129 Resp: 2621002  
 Ion Ratio Lower Upper  
 129 100  
 127 77.9 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V  
 1000000 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.385 ppbv

RT: 13.04 min Scan# 3188

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

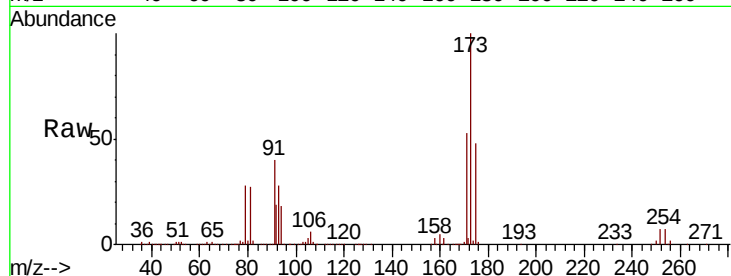
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:173 Resp: 2140871

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 50.5  | 40.4  | 60.6  |
| 171 | 53.3  | 42.6  | 64.0  |

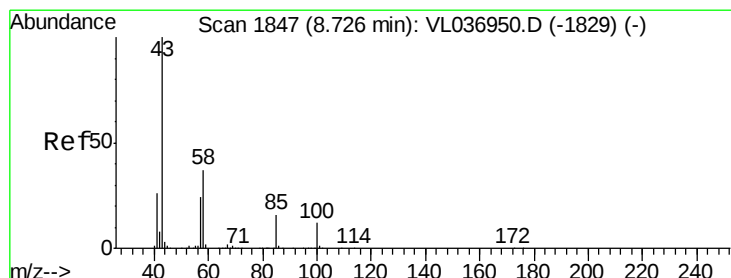
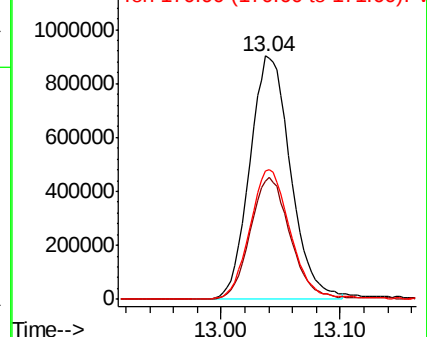
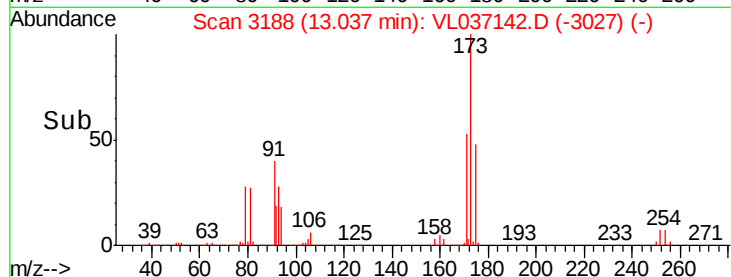


Abundance

Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.086 ppbv

RT: 8.74 min Scan# 1853

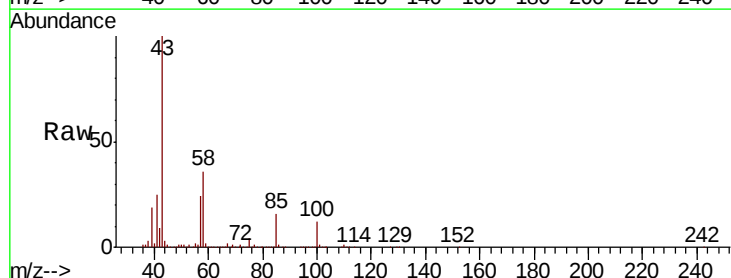
Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Tgt Ion: 43 Resp: 2454024

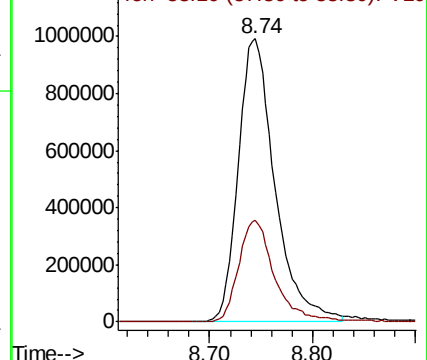
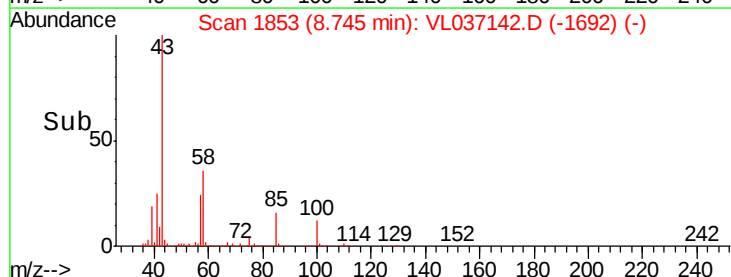
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 35.7  | 29.4  | 44.2  |

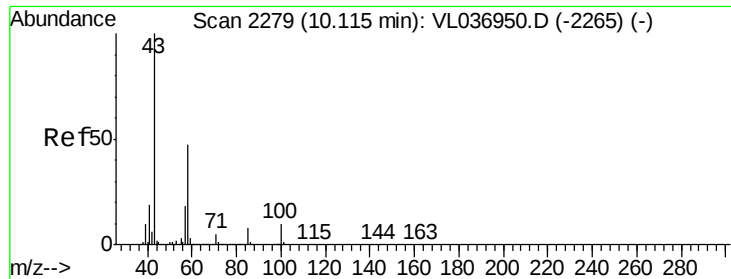


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

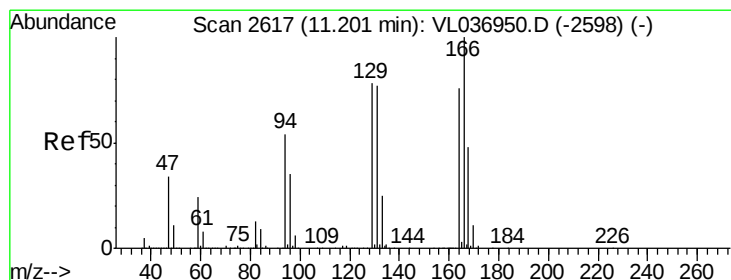
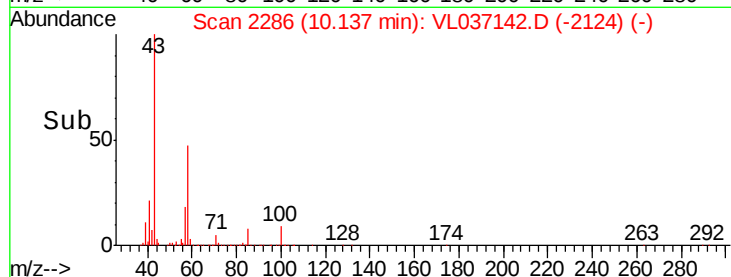
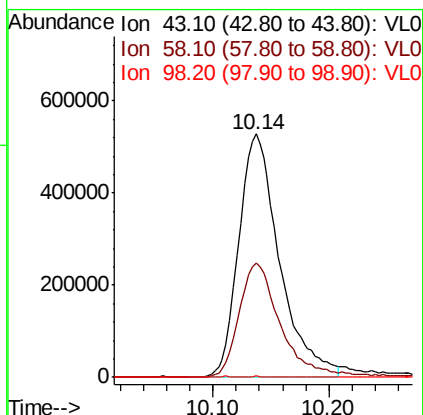
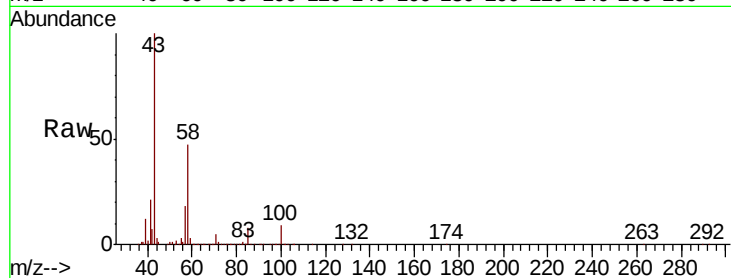




#51  
2-Hexanone  
Concen: 10.008 ppbv  
RT: 10.14 min Scan# 2286  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

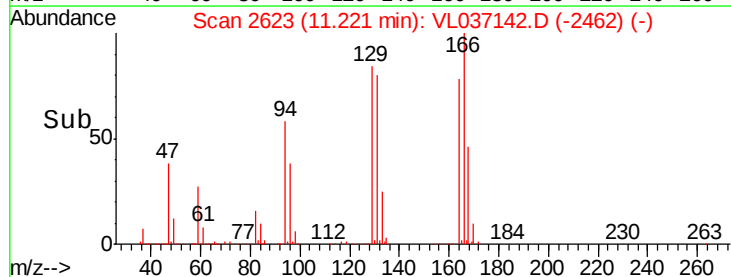
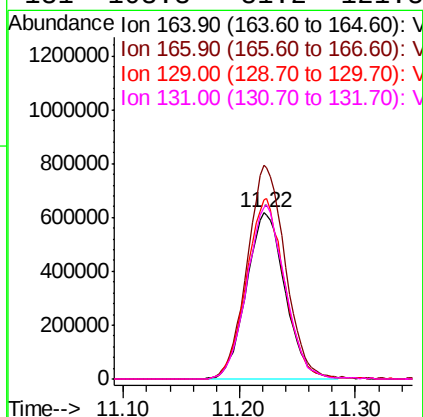
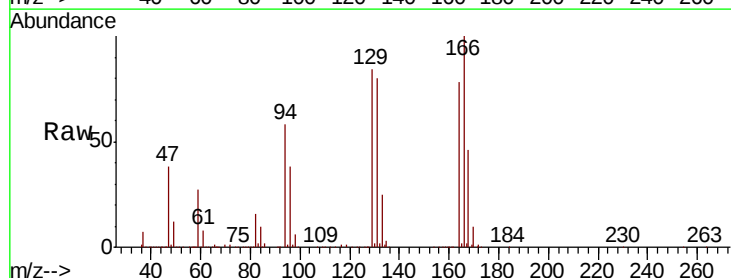
Instrument :  
MSVOA\_L  
ClientSampleId :

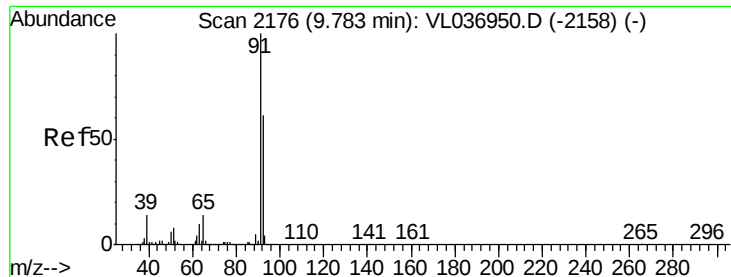
Tot Ion: 43 Resp: 1287225  
Ion Ratio Lower Upper  
43 100  
58 48.5 41.1 61.7  
98 0.4 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 10.285 ppbv  
RT: 11.22 min Scan# 2623  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion:164 Resp: 1426424  
Ion Ratio Lower Upper  
164 100  
166 128.5 105.5 158.3  
129 107.8 81.8 122.8  
131 103.3 81.2 121.8





#53

Toluene

Concen: 9.917 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

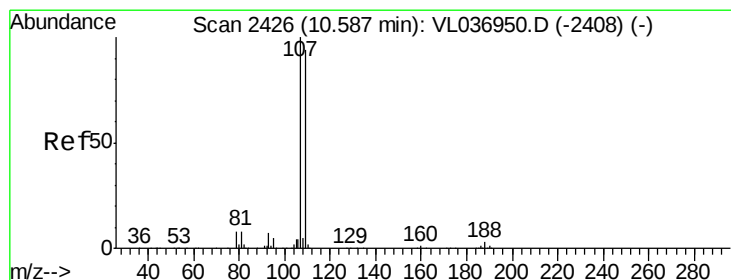
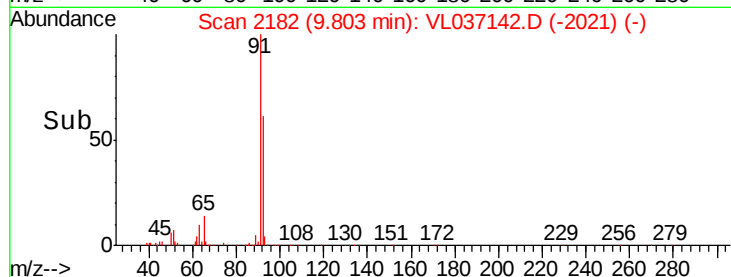
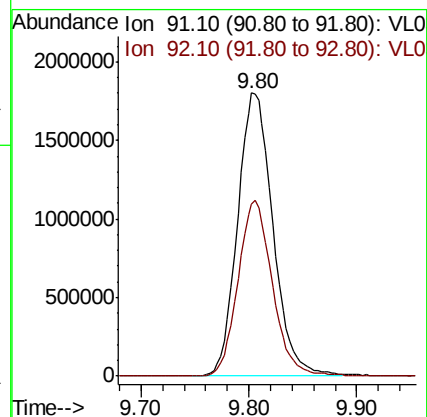
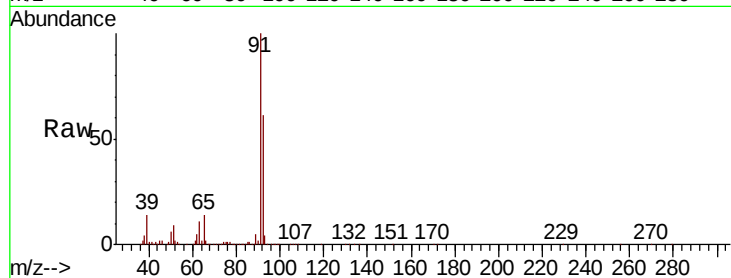
ClientSampleId :

Tot Ion: 91 Resp: 4115751

Ion Ratio Lower Upper

91 100

92 60.9 49.5 74.3



#54

1,2-Dibromoethane

Concen: 11.000 ppbv

RT: 10.61 min Scan# 2433

Delta R.T. 0.02 min

Lab File: VL037142.D

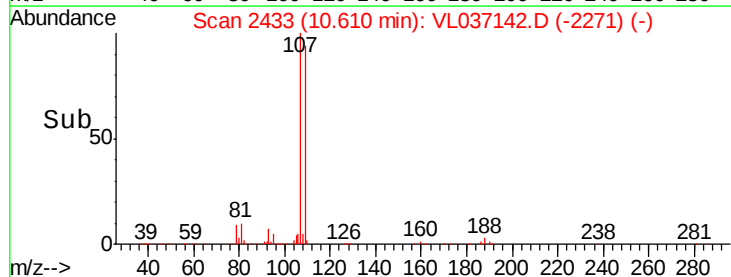
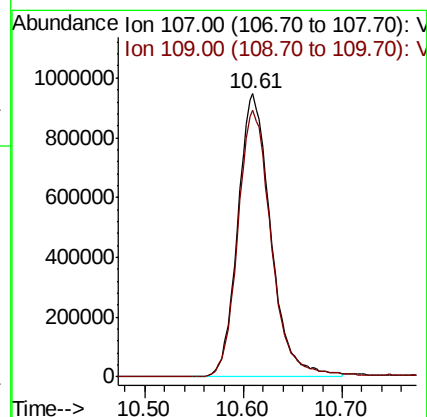
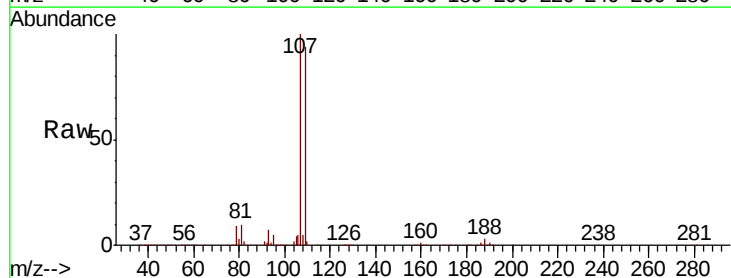
Acq: 8 Jun 2021 21:36

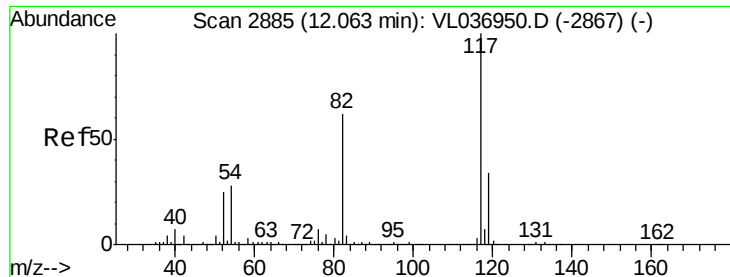
Tgt Ion: 107 Resp: 2199069

Ion Ratio Lower Upper

107 100

109 94.4 75.0 112.4

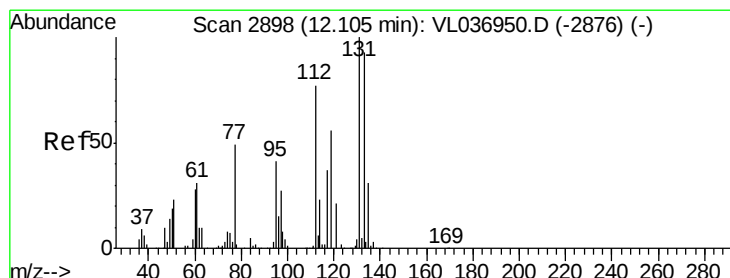
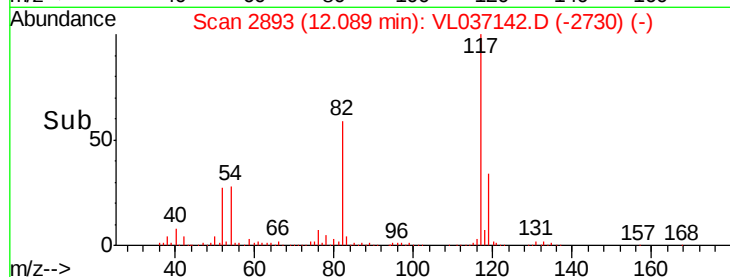
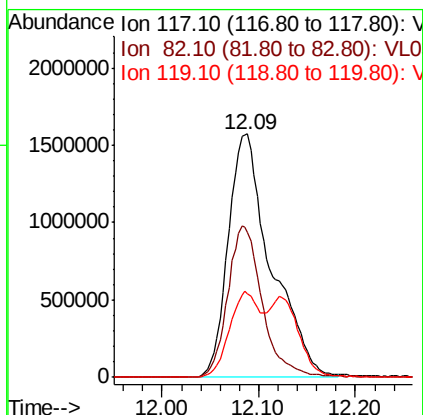
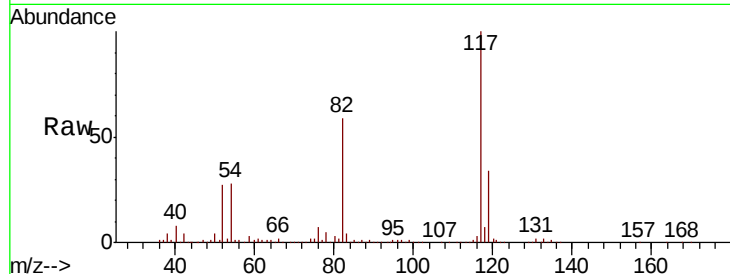




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09 min Scan# 2893  
Delta R.T. 0.03 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

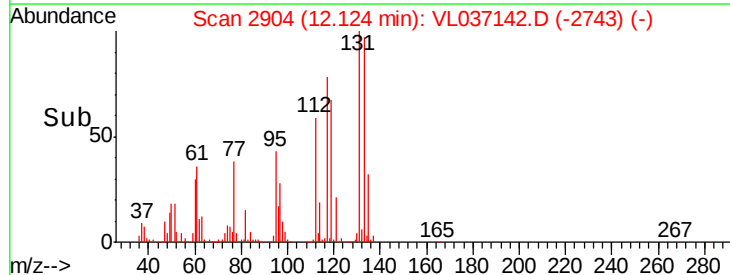
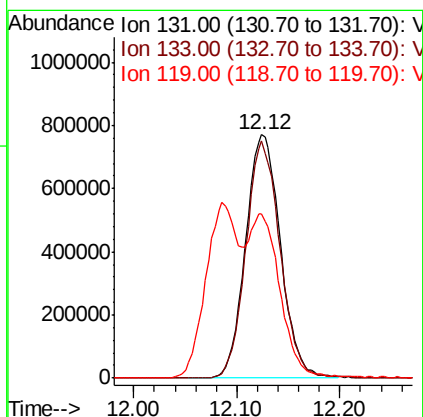
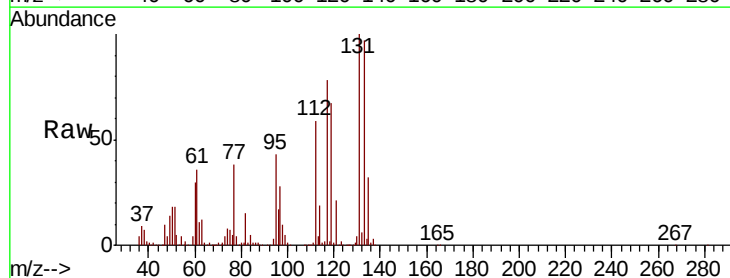
Instrument :  
MSVOA\_L  
ClientSampleId :

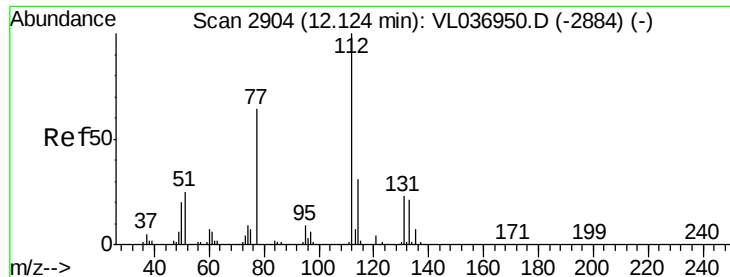
Tot Ion:117 Resp: 4851911  
Ion Ratio Lower Upper  
117 100  
82 50.4 52.6 79.0#  
119 24.9 46.6 70.0#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.858 ppbv  
RT: 12.12 min Scan# 2904  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion:131 Resp: 1808344  
Ion Ratio Lower Upper  
131 100  
133 96.0 76.9 115.3  
119 67.7 120.2 180.4#

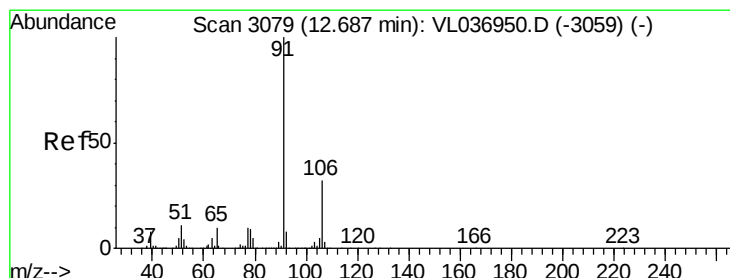
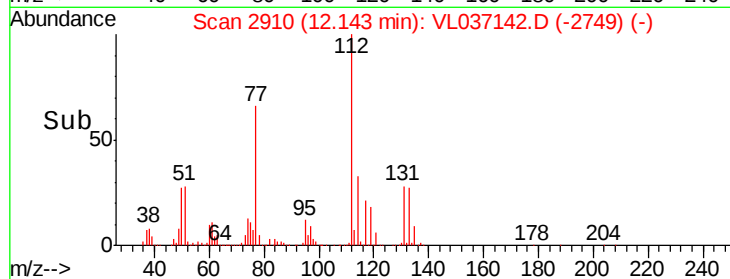
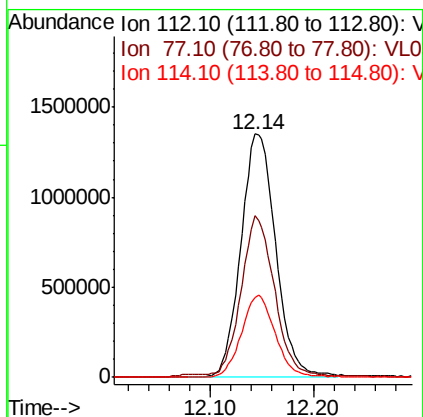
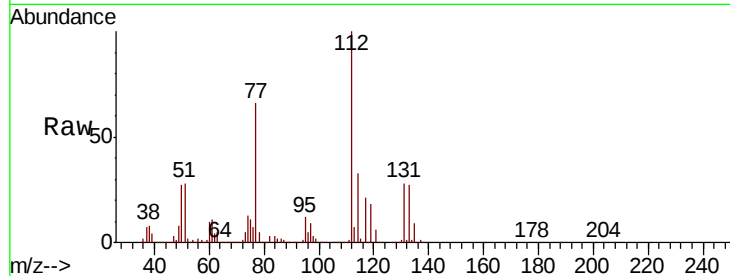




#57  
Chlorobenzene  
Concen: 8.452 ppbv  
RT: 12.14 min Scan# 2910  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

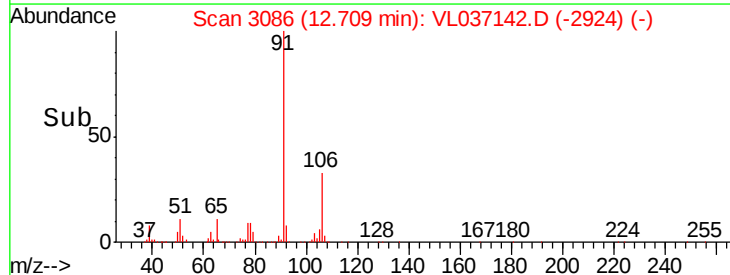
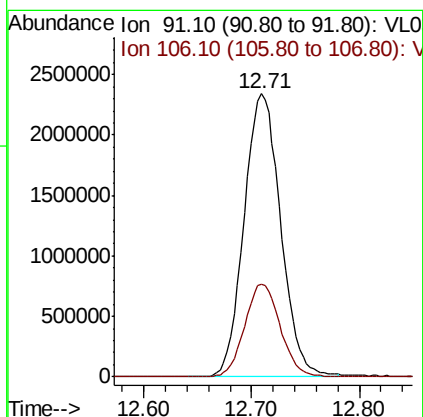
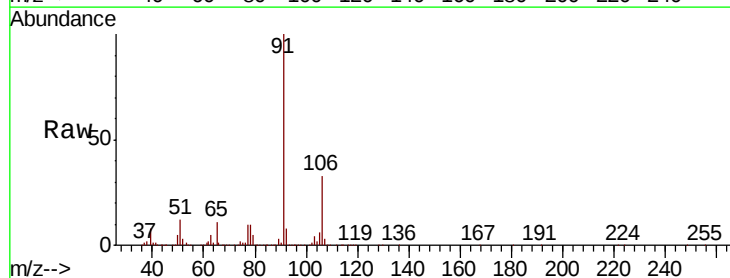
Instrument :  
MSVOA\_L  
ClientSampleId :

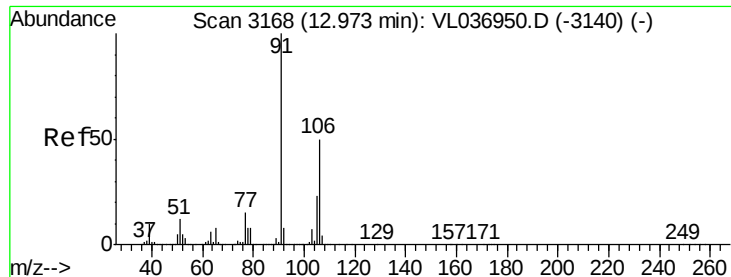
Tot Ion:112 Resp: 3179716  
Ion Ratio Lower Upper  
112 100  
77 65.7 51.0 76.6  
114 32.7 28.3 34.5



#58  
Ethyl Benzene  
Concen: 8.075 ppbv  
RT: 12.71 min Scan# 3086  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 91 Resp: 5529786  
Ion Ratio Lower Upper  
91 100  
106 32.6 25.6 38.4

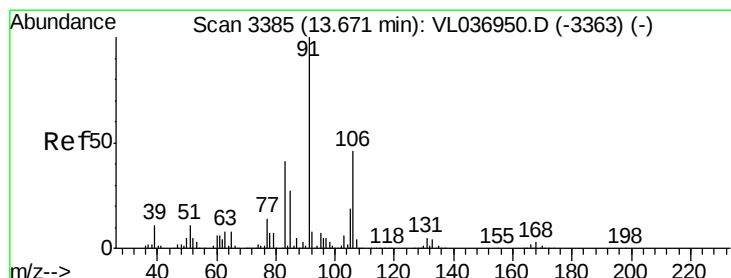
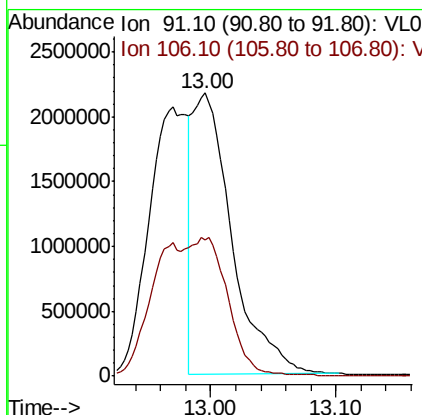
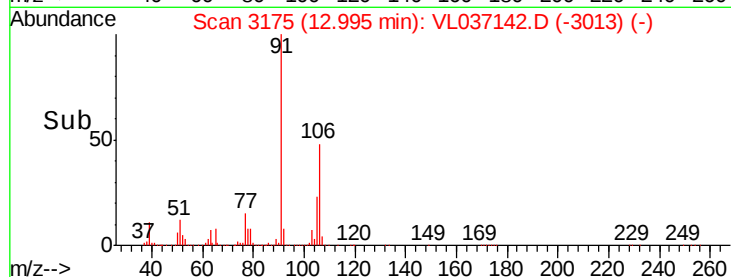
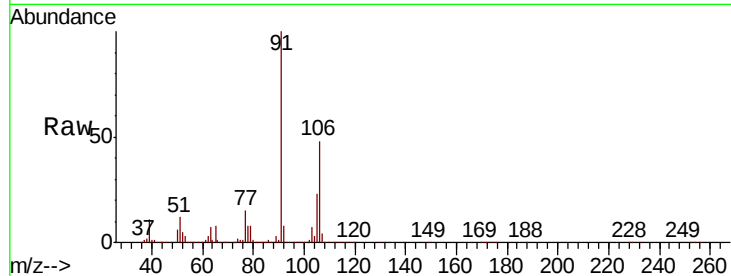




#59  
m/p-Xylene  
Concen: 8.355 ppbv  
RT: 13.00 min Scan# 3175  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

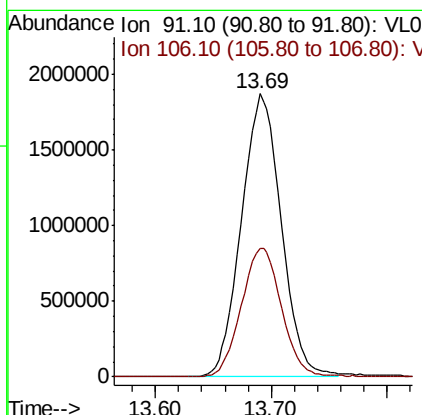
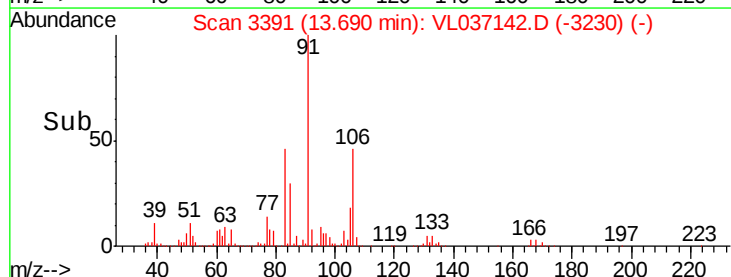
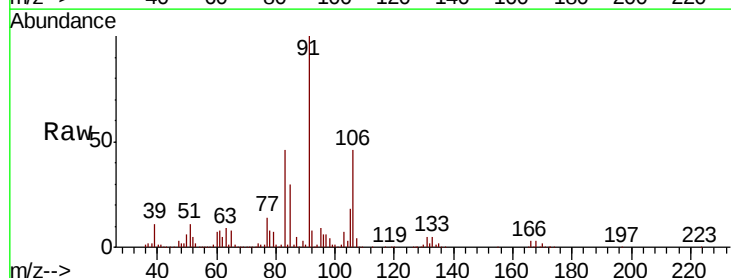
Instrument :  
MSVOA\_L  
ClientSampled :

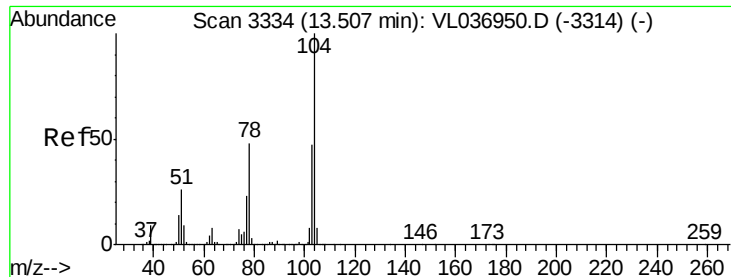
Tot Ion: 91 Resp: 4729304  
Ion Ratio Lower Upper  
91 100  
106 90.6 37.4 56.2#



#60  
o-Xylene  
Concen: 8.250 ppbv  
RT: 13.69 min Scan# 3391  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 91 Resp: 4453684  
Ion Ratio Lower Upper  
91 100  
106 46.4 23.4 70.3

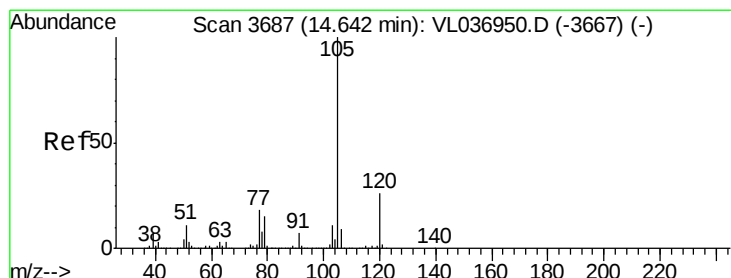
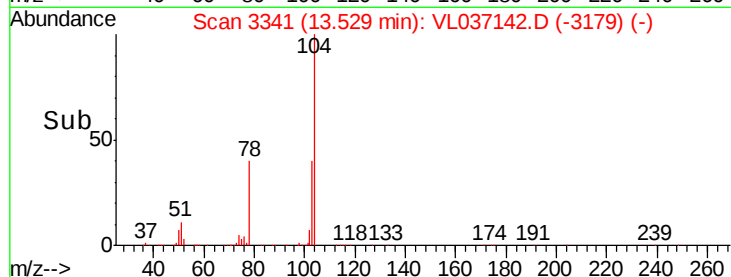
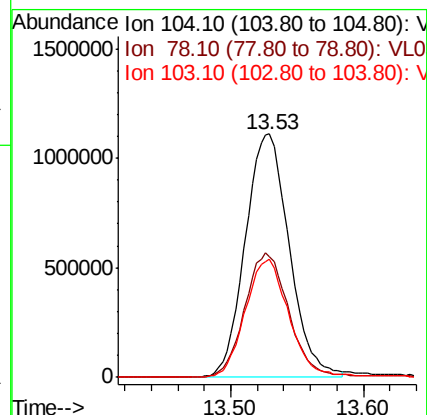
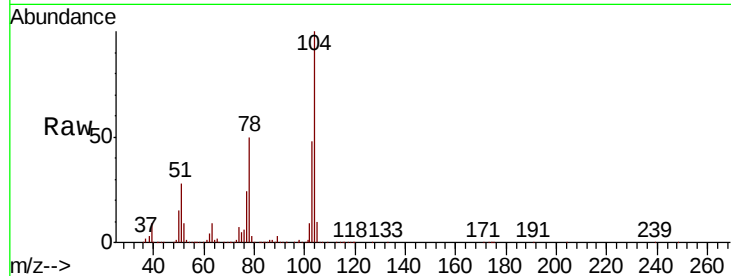




#61  
Stvrene  
Concen: 8.419 ppbv  
RT: 13.53 min Scan# 3341  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

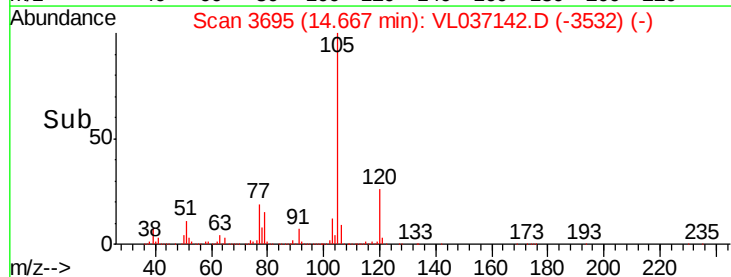
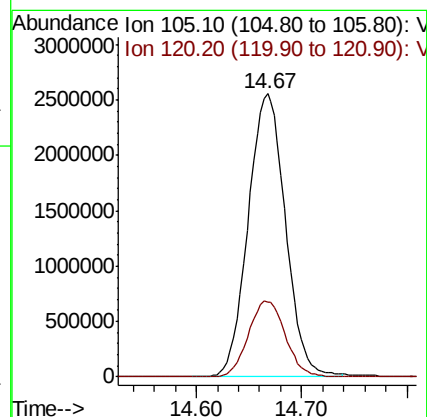
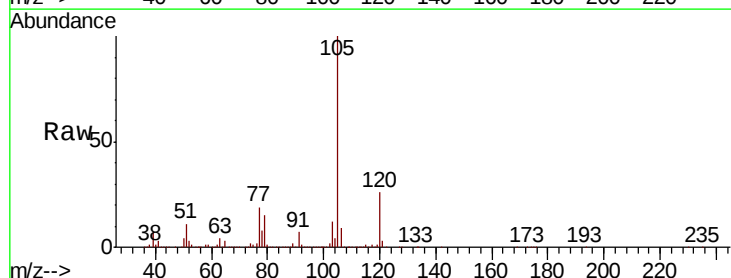
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion:104 Resp: 2560541  
Ion Ratio Lower Upper  
104 100  
78 51.6 39.0 58.6  
103 48.6 38.0 57.0



#62  
Isopropylbenzene  
Concen: 8.109 ppbv  
RT: 14.67 min Scan# 3695  
Delta R.T. 0.03 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion:105 Resp: 6291716  
Ion Ratio Lower Upper  
105 100  
120 27.0 21.7 32.5





#63

1,1,2,2-Tetrachloroethane

Concen: 7.567 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

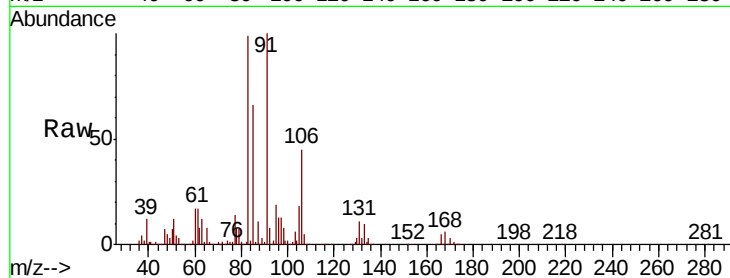
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 83 Resp: 3050854

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 10.9  | 5.0   | 15.0  |
| 85  | 66.4  | 32.9  | 98.6  |

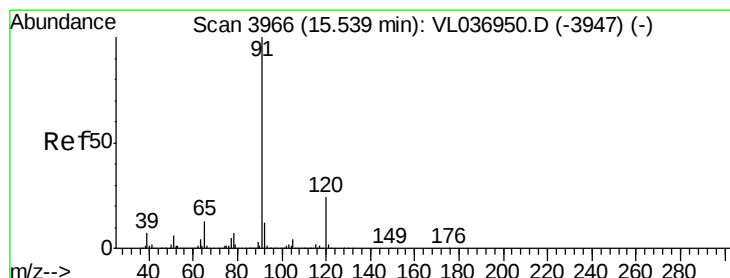
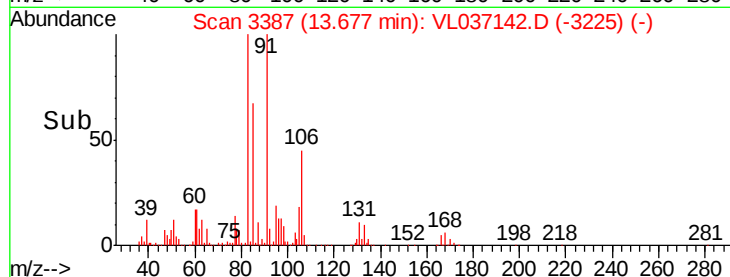
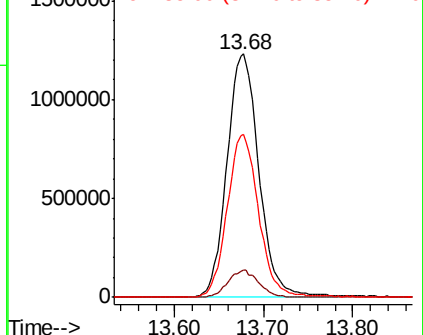


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.536 ppbv

RT: 15.56 min Scan# 3973

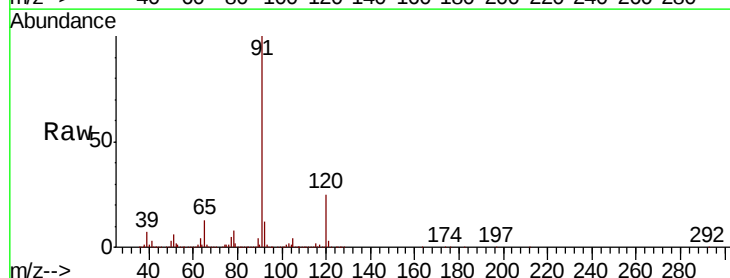
Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Tgt Ion:120 Resp: 1708844

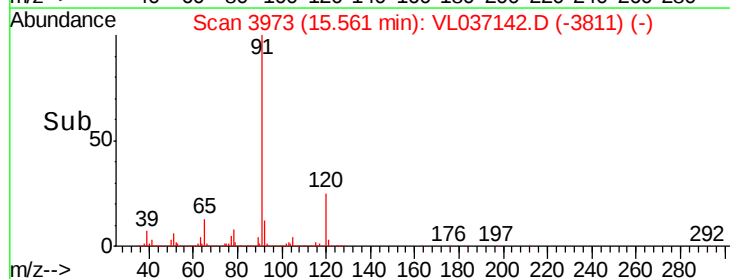
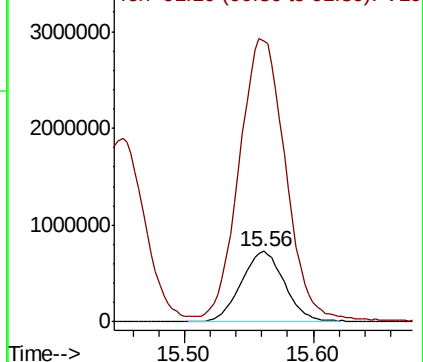
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 434.2 | 343.8 | 515.6 |

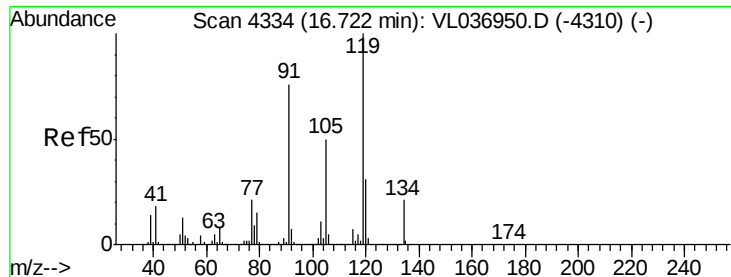


Abundance

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

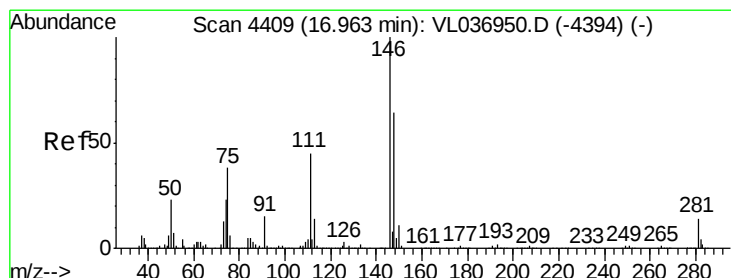
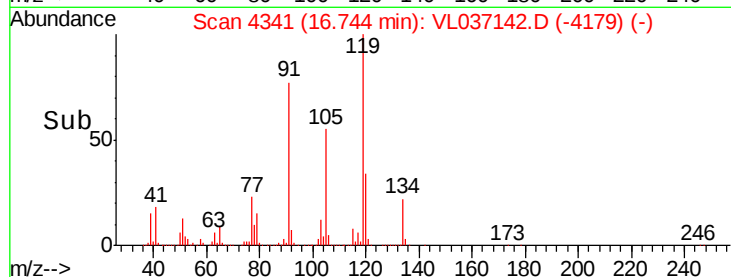
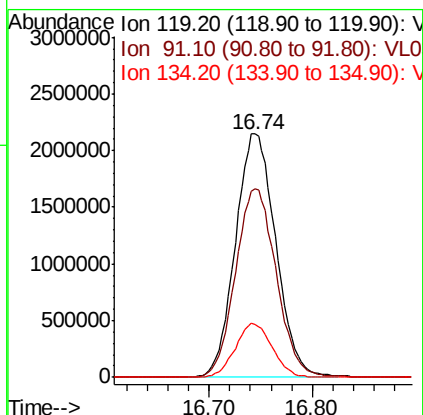
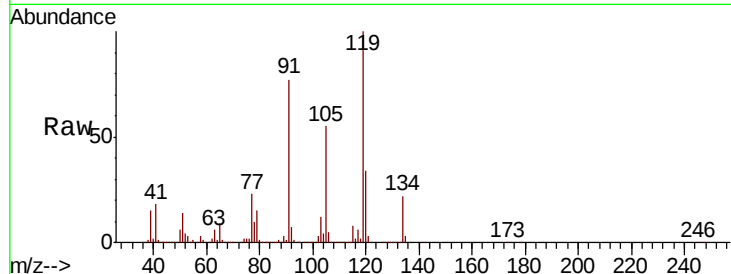




#65  
tert-Butylbenzene  
Concen: 8.339 ppbv  
RT: 16.74 min Scan# 4341  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

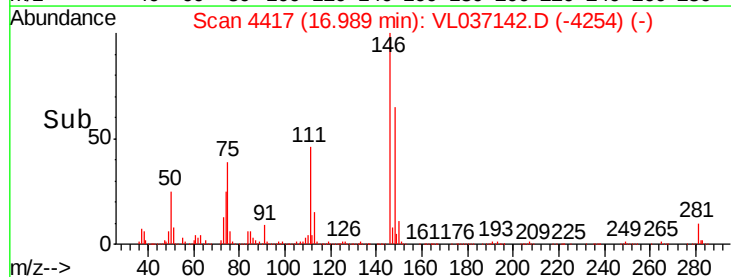
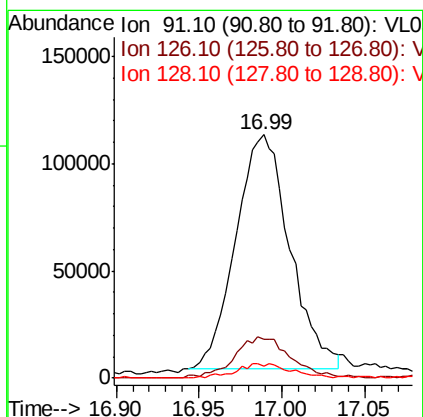
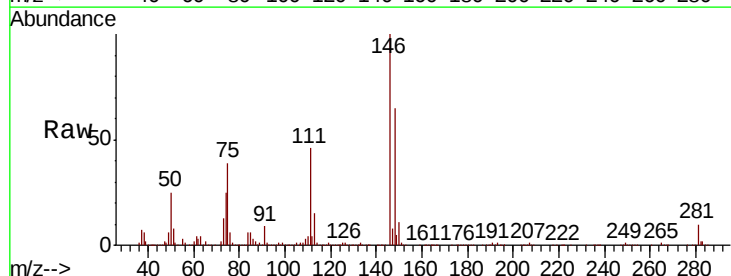
Instrument :  
MSVOA\_L  
ClientSampleId :

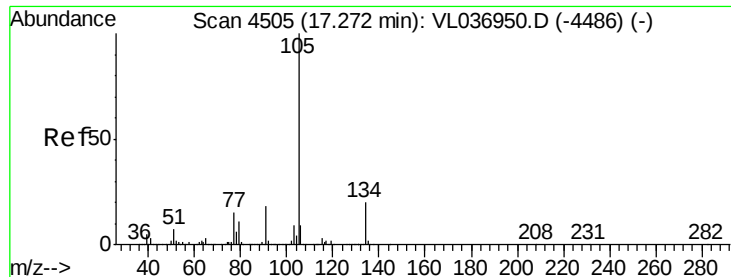
Tot Ion:119 Resp: 5838174  
Ion Ratio Lower Upper  
119 100  
91 78.4 61.9 92.9  
134 20.5 16.2 24.4



#66  
Benzyl Chloride  
Concen: 6.358 ppbv  
RT: 16.99 min Scan# 4417  
Delta R.T. 0.03 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion: 91 Resp: 246964  
Ion Ratio Lower Upper  
91 100  
126 18.6 16.5 24.7  
128 6.8 5.5 8.3





#67

sec-Butylbenzene

Concen: 8.163 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

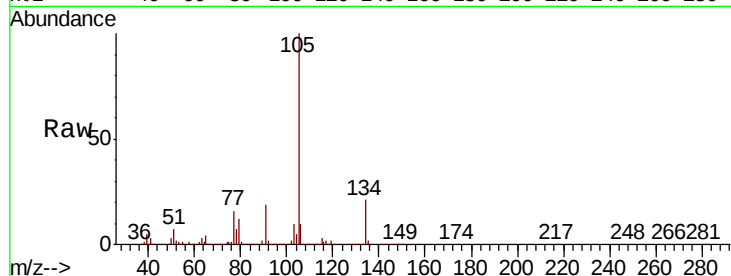
ClientSampleId :

Tot Ion: 105 Resp: 7796191

Ion Ratio Lower Upper

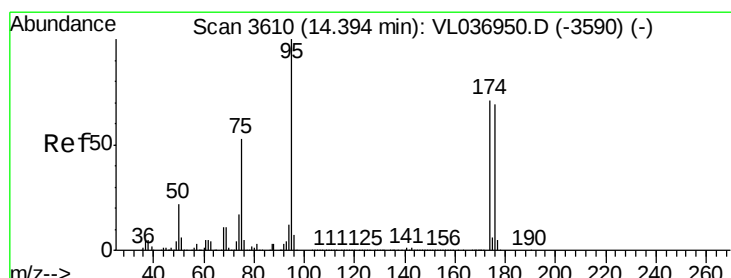
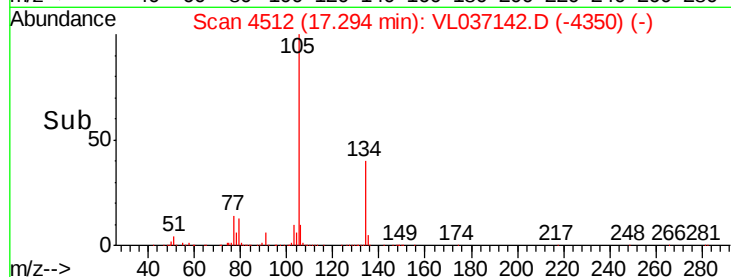
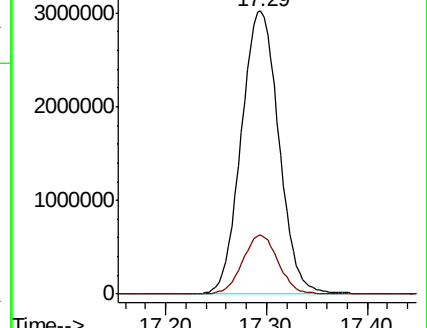
105 100

134 20.0 15.6 23.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.221 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

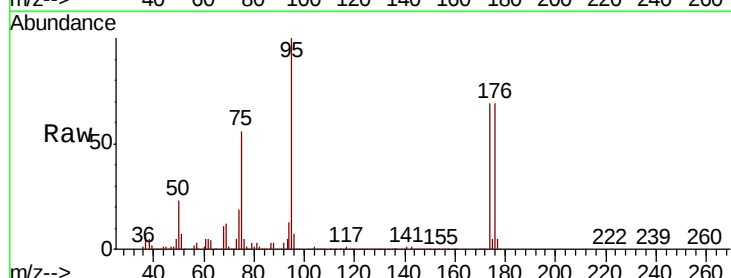
Tgt Ion: 95 Resp: 2996493

Ion Ratio Lower Upper

95 100

174 72.1 58.4 87.6

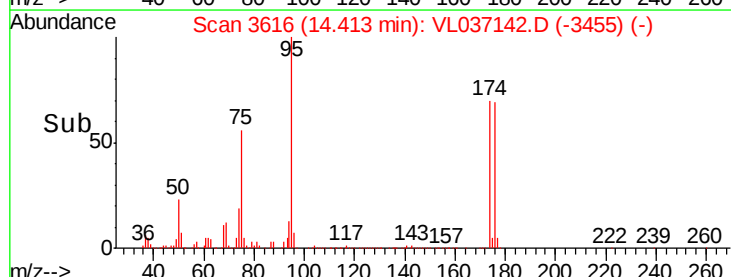
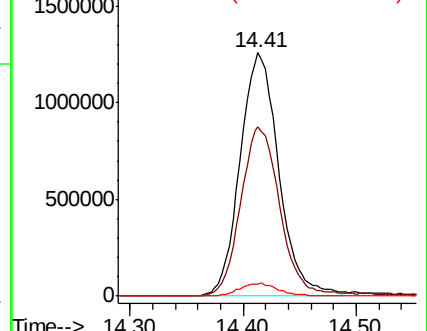
175 5.4 4.4 6.6

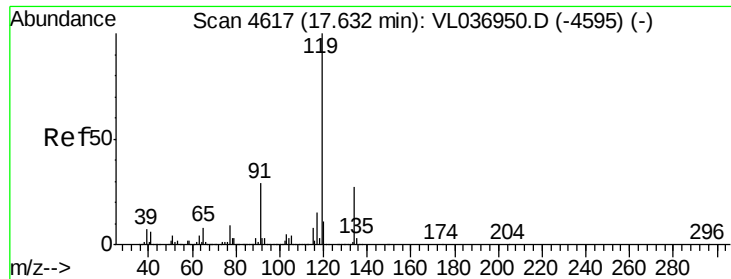


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

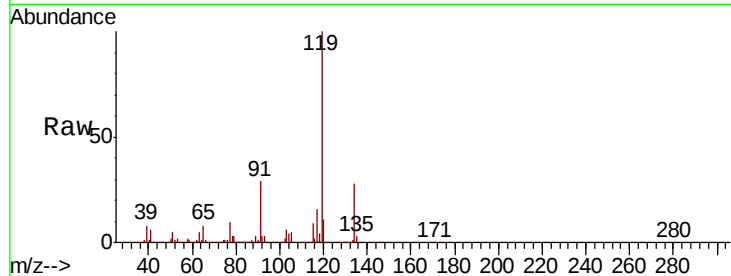




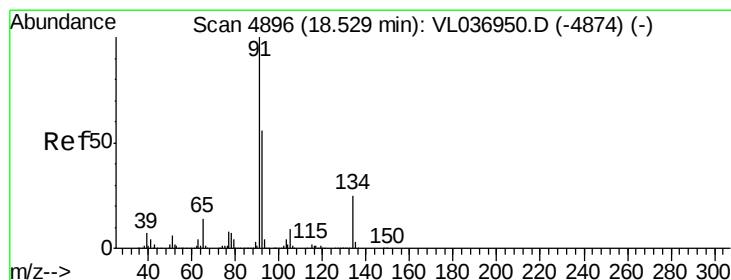
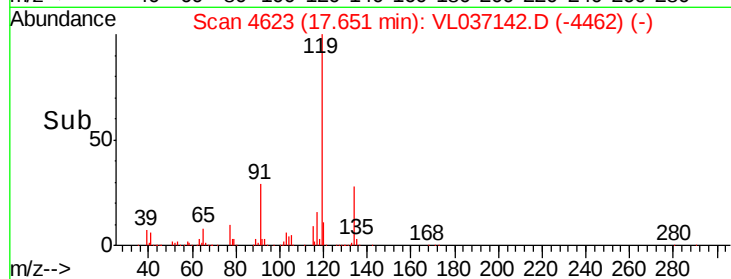
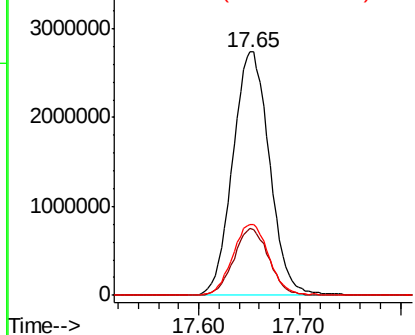
#69  
 p-Isopropyltoluene  
 Concen: 8.427 ppbv  
 RT: 17.65 min Scan# 4623  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:119 Resp: 6919922  
 Ion Ratio Lower Upper  
 119 100  
 134 26.5 21.2 31.8  
 91 28.7 22.2 33.4

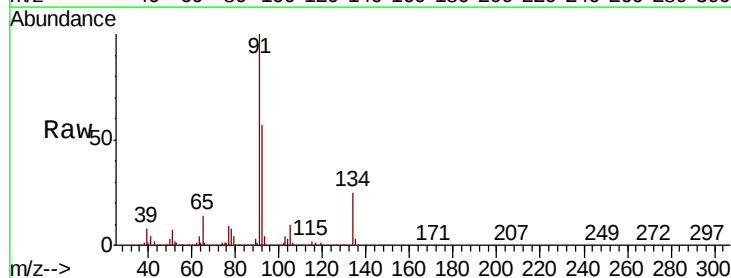


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

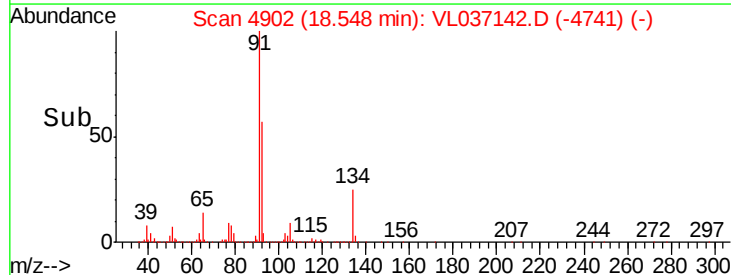
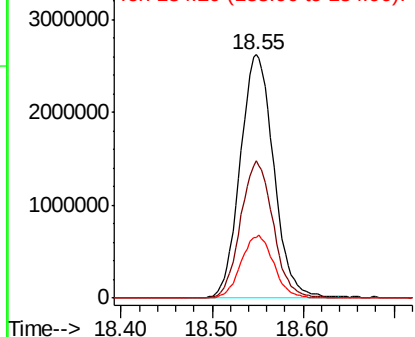


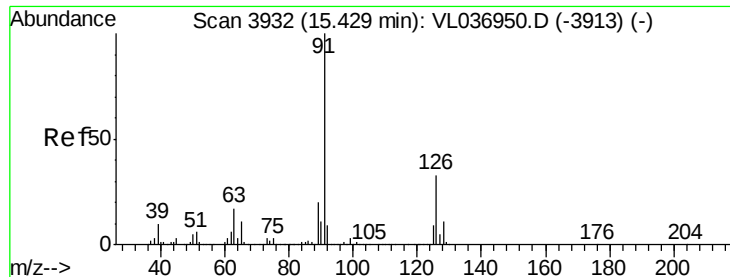
#70  
 n-Butylbenzene  
 Concen: 8.584 ppbv  
 RT: 18.55 min Scan# 4902  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion: 91 Resp: 6695958  
 Ion Ratio Lower Upper  
 91 100  
 92 55.2 44.6 66.8  
 134 25.4 20.2 30.2



Abundance Ion 91.10 (90.80 to 91.80): VL0  
 Ion 92.10 (91.80 to 92.80): VL0  
 Ion 134.20 (133.90 to 134.90): V

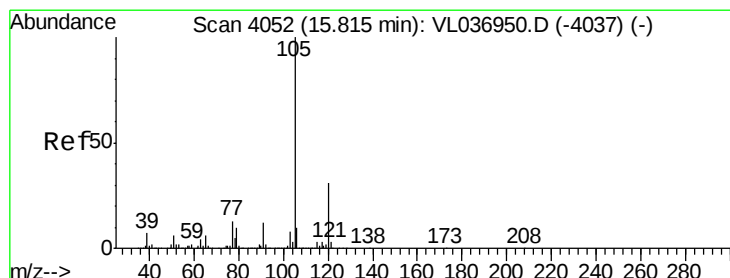
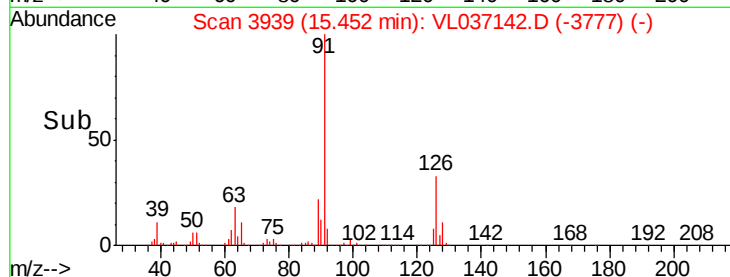
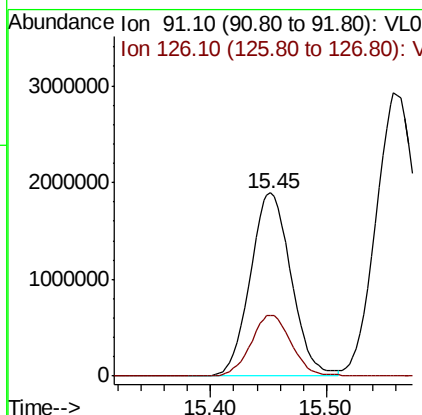
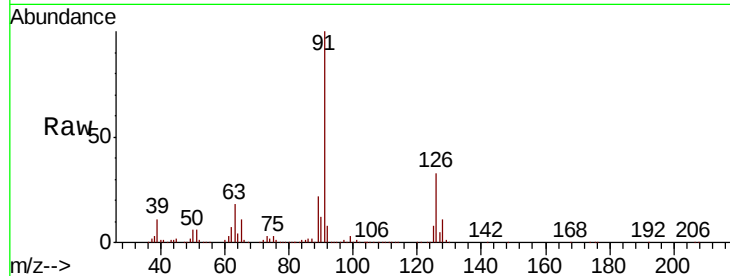




#71  
2-Chlorotoluene  
Concen: 8.264 ppbv  
RT: 15.45 min Scan# 3939  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

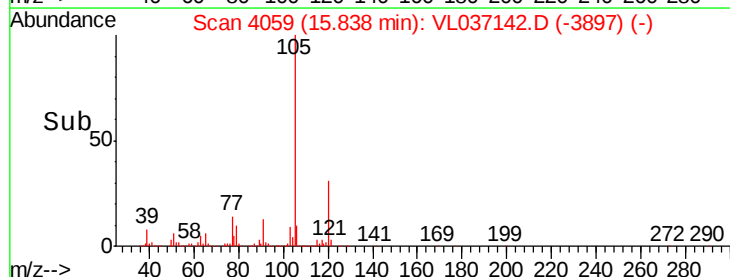
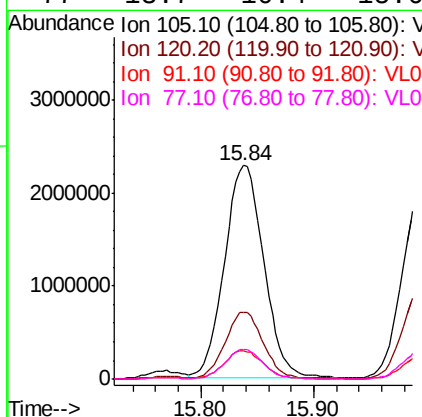
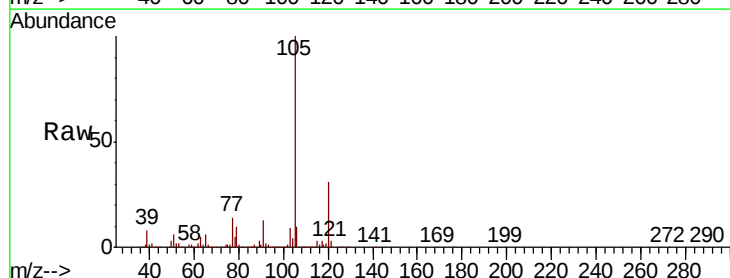
Instrument :  
MSVOA\_L  
ClientSampleId :

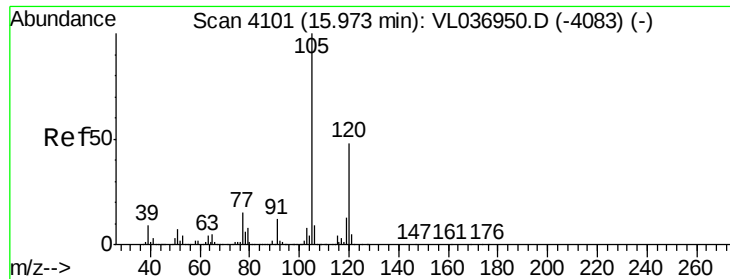
Tot Ion: 91 Resp: 4631166  
Ion Ratio Lower Upper  
91 100  
126 33.7 13.1 52.5



#72  
4-Ethyltoluene  
Concen: 8.611 ppbv  
RT: 15.84 min Scan# 4059  
Delta R.T. 0.02 min  
Lab File: VL037142.D  
Acq: 8 Jun 2021 21:36

Tgt Ion:105 Resp: 5517446  
Ion Ratio Lower Upper  
105 100  
120 31.0 24.6 37.0  
91 13.1 9.8 14.6  
77 13.7 10.4 15.6

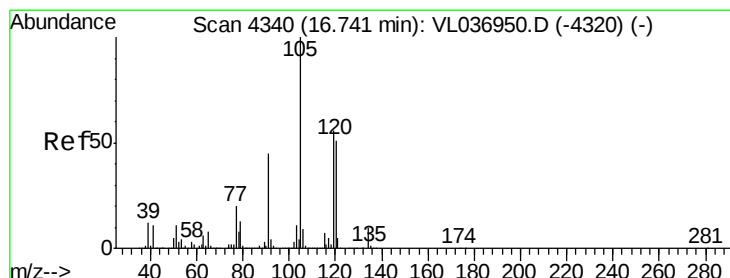
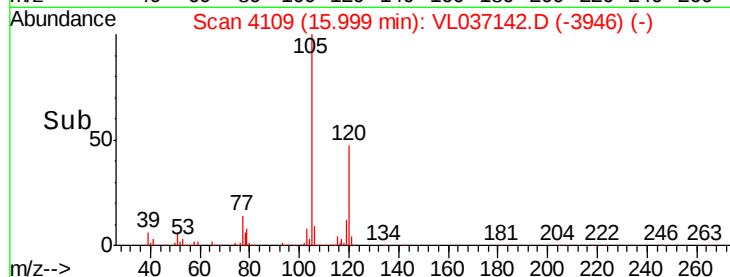
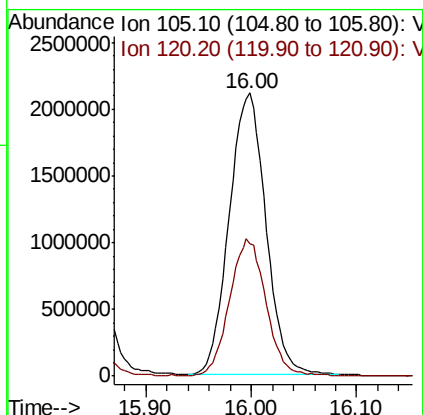
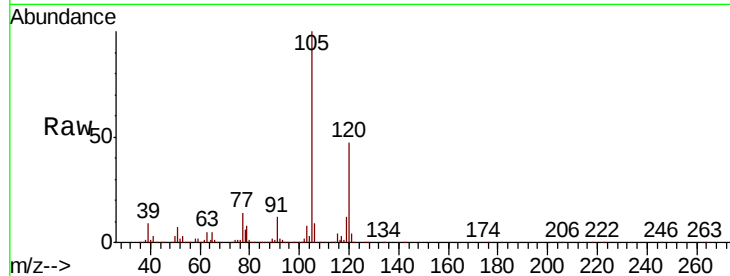




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.447 ppbv  
 RT: 16.00 min Scan# 4109  
 Delta R.T. 0.03 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

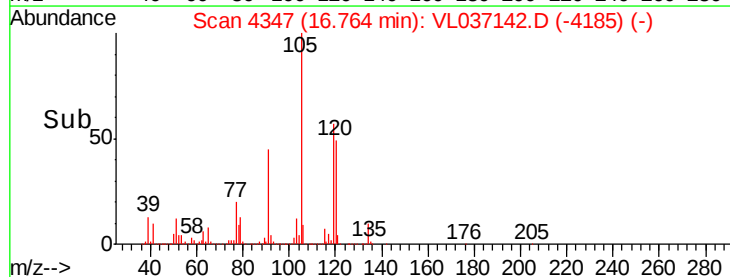
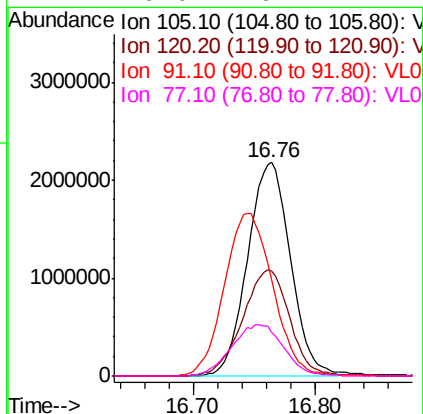
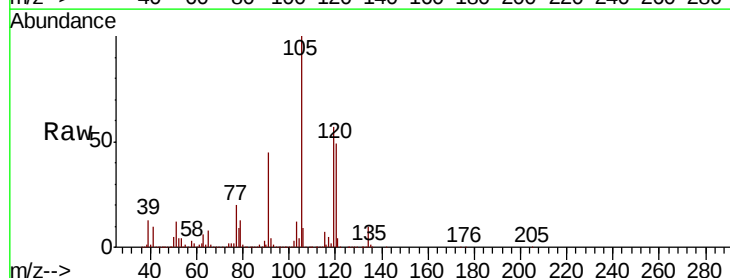
Instrument :  
 MSVOA\_L  
 ClientSampled :

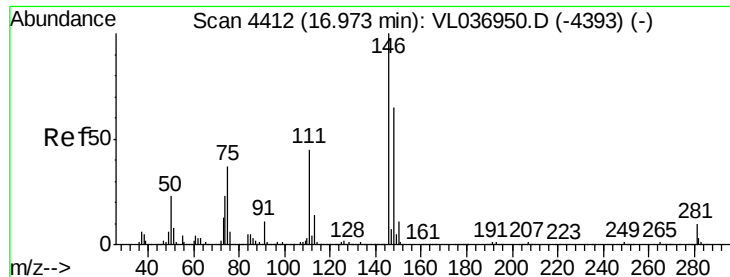
Tot Ion:105 Resp: 5082804  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 38.6 58.0



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.516 ppbv  
 RT: 16.76 min Scan# 4347  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion:105 Resp: 5298164  
 Ion Ratio Lower Upper  
 105 100  
 120 48.9 40.6 61.0  
 91 44.3 37.4 56.0  
 77 20.0 16.2 24.4





#75

1,3-Dichlorobenzene

Concen: 8.738 ppbv

RT: 17.00 min Scan# 4419

Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

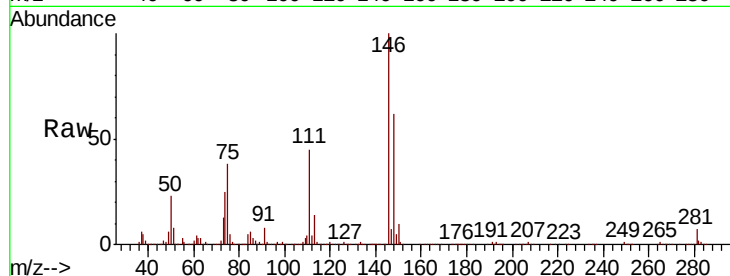
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:146 Resp: 3319465

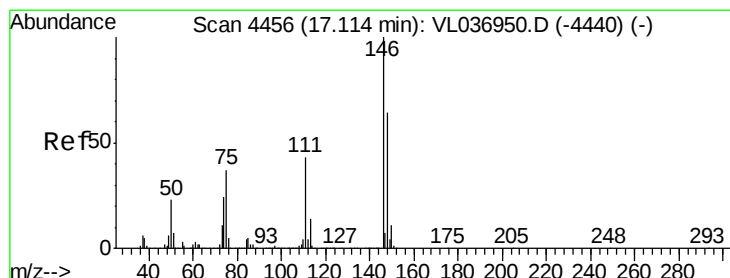
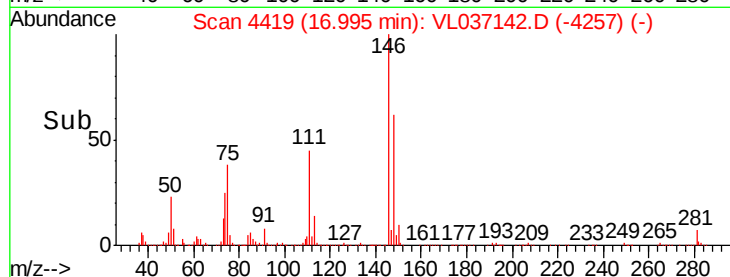
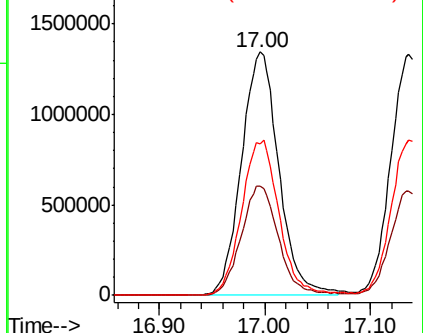
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 45.2  | 22.2  | 66.6  |
| 148 | 64.3  | 32.3  | 96.8  |



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.277 ppbv

RT: 17.14 min Scan# 4463

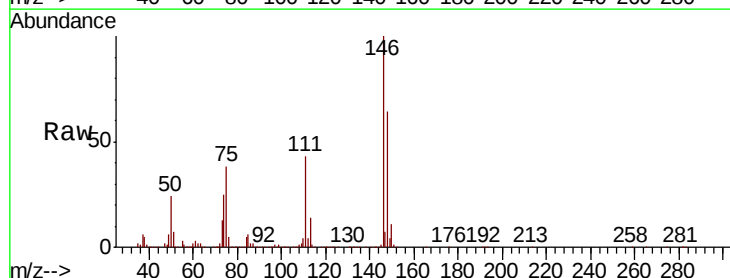
Delta R.T. 0.02 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Tgt Ion:146 Resp: 3179390

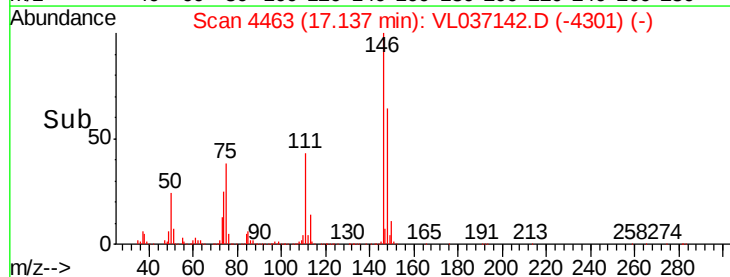
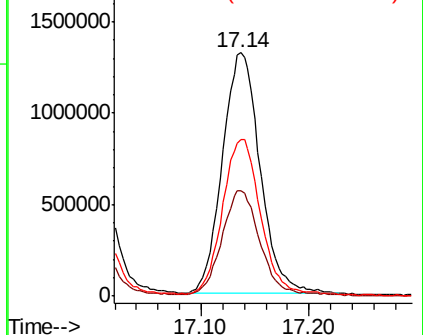
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 45.1  | 22.6  | 67.7  |
| 148 | 67.6  | 33.5  | 100.5 |

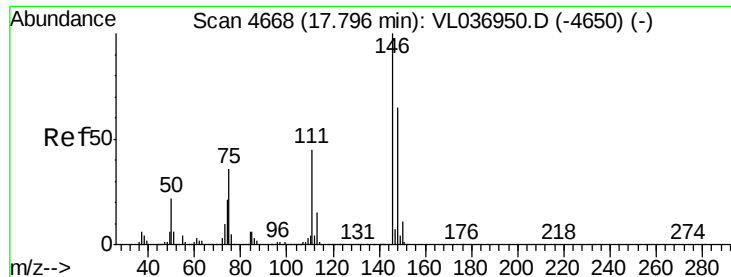


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

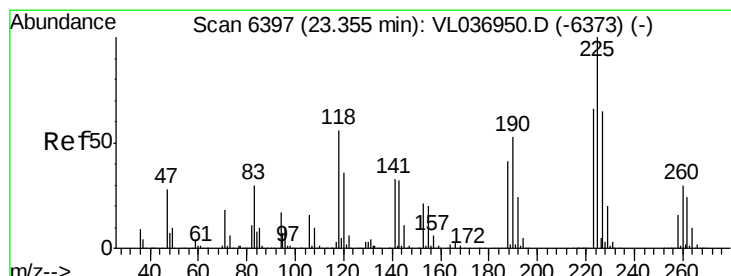
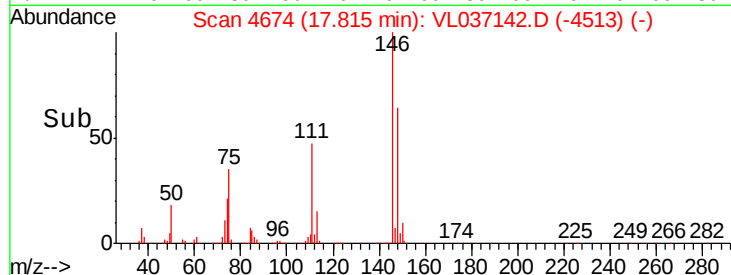
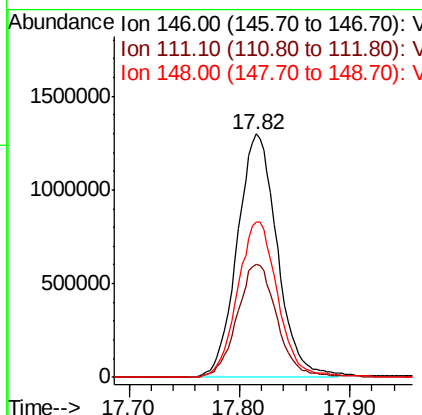
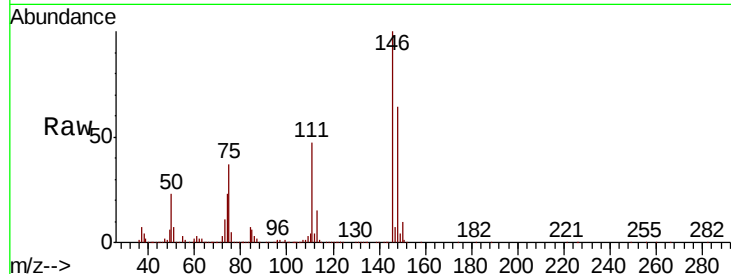




#77  
 1,2-Dichlorobenzene  
 Concen: 8.503 ppbv  
 RT: 17.82 min Scan# 4674  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

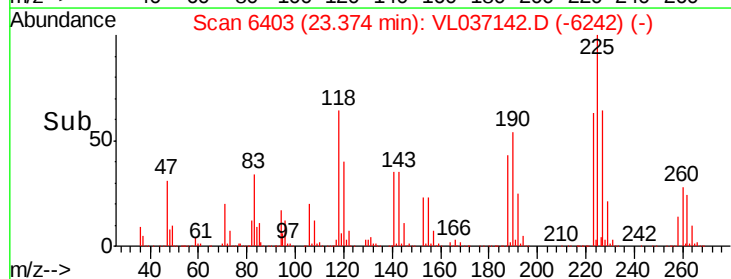
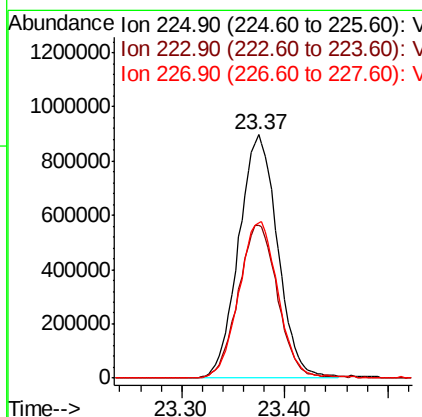
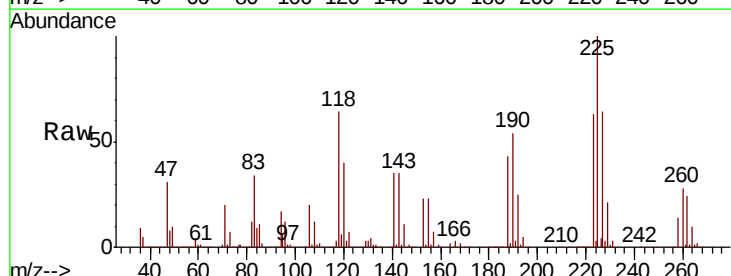
Instrument :  
 MSVOA\_L  
 ClientSampleId :

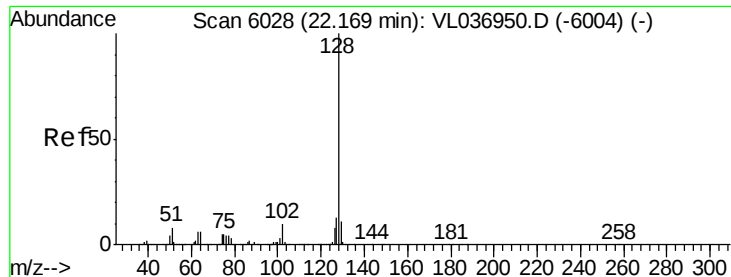
Tot Ion:146 Resp: 3236993  
 Ion Ratio Lower Upper  
 146 100  
 111 46.7 23.1 69.2  
 148 64.4 32.5 97.4



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 7.680 ppbv  
 RT: 23.37 min Scan# 6403  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Tgt Ion:225 Resp: 2350800  
 Ion Ratio Lower Upper  
 225 100  
 223 64.3 51.9 77.9  
 227 64.9 51.8 77.6





#79

Naphthalene

Concen: 9.346 ppbv

RT: 22.19 min Scan# 6036

Delta R.T. 0.03 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

Instrument :

MSVOA\_L

ClientSampleId :

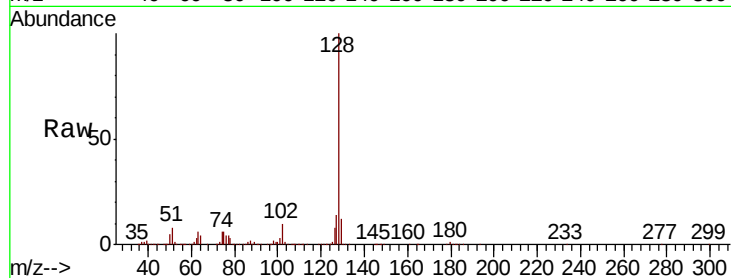
Tot Ion:128 Resp: 4562404

Ion Ratio Lower Upper

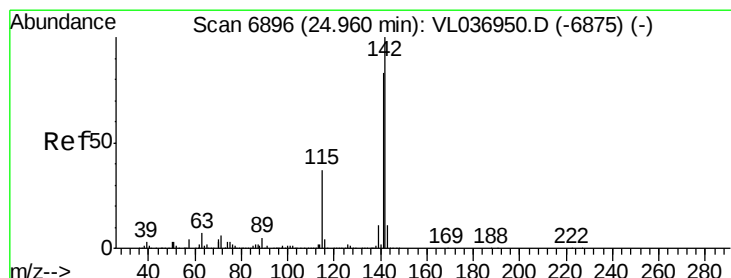
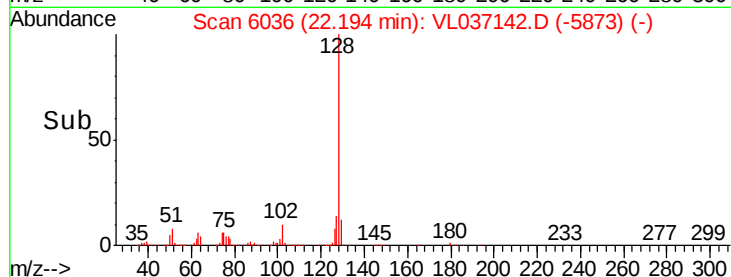
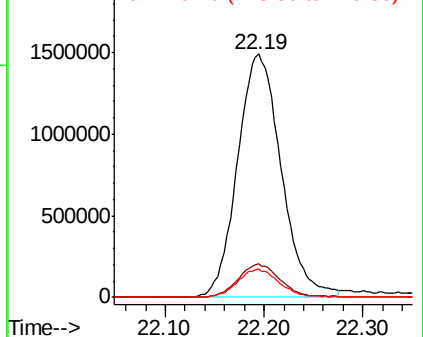
128 100

127 13.9 10.4 15.6

129 11.6 9.0 13.6



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 7.015 ppbv

RT: 24.97 min Scan# 6900

Delta R.T. 0.01 min

Lab File: VL037142.D

Acq: 8 Jun 2021 21:36

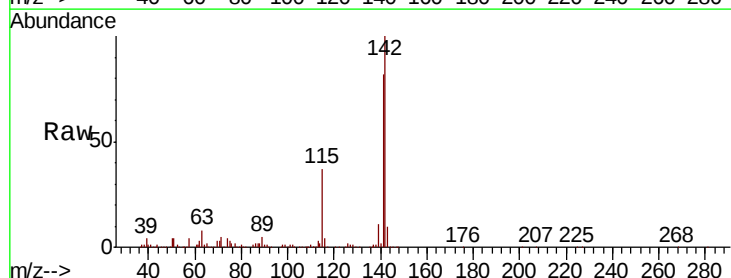
Tgt Ion:142 Resp: 744666

Ion Ratio Lower Upper

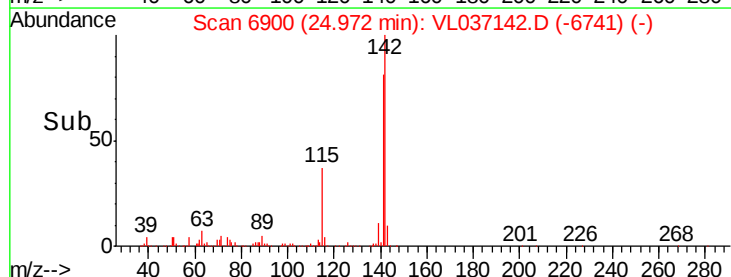
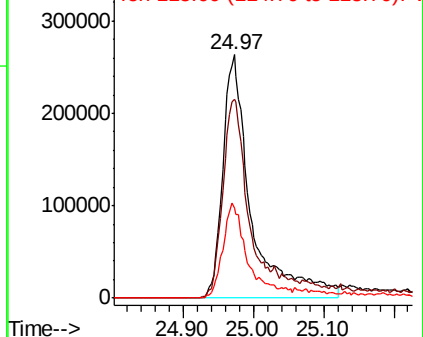
142 100

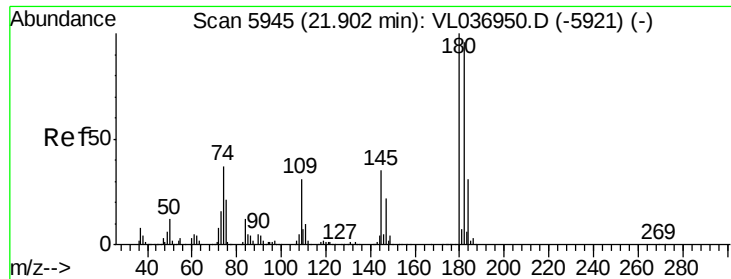
141 92.0 69.3 103.9

115 40.1 29.1 43.7



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V

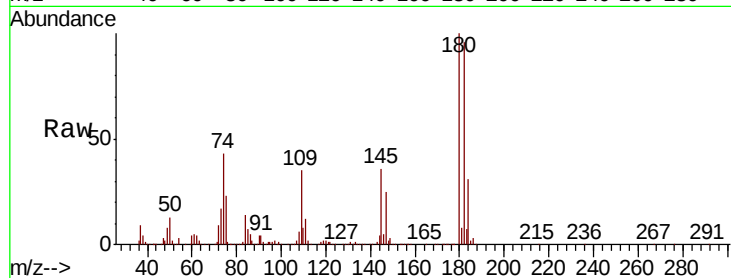




#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.803 ppbv  
 RT: 21.92 min Scan# 5952  
 Delta R.T. 0.02 min  
 Lab File: VL037142.D  
 Acq: 8 Jun 2021 21:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:180 Resp: 2619479  
 Ion Ratio Lower Upper  
 180 100  
 182 99.3 81.7 122.5  
 184 31.7 24.9 37.3



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

