

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040721\  
 Data File : VL036726.D  
 Acq On : 7 Apr 2021 13:20  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Apr 08 02:39:43 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 09:42:40 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1390678  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3538807  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 3999831  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2605462  | 8.17     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 81.70% |

## Target Compounds

|                                |      |     |         |             | Ovalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 2074166 | 9.144 ppbv  | 98     |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2486479 | 9.570 ppbv  | 100    |
| 4) Chloromethane               | 3.14 | 50  | 867551  | 9.453 ppbv  | 99     |
| 5) Vinyl Chloride              | 3.26 | 62  | 838625  | 8.887 ppbv  | 98     |
| 6) Bromomethane                | 3.47 | 94  | 463021  | 8.912 ppbv  | 97     |
| 7) Chloroethane                | 3.56 | 64  | 294861  | 9.093 ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 2025797 | 9.358 ppbv  | 97     |
| 9) Propene                     | 3.01 | 41  | 809385  | 9.771 ppbv  | 99     |
| 10) Heptane                    | 8.12 | 43  | 2088285 | 9.896 ppbv  | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2049525 | 8.866 ppbv  | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1358451 | 9.192 ppbv  | 100    |
| 13) Ethanol                    | 3.61 | 45  | 76418   | 7.747 ppbv  | 88     |
| 14) Bromoethene                | 3.74 | 108 | 593483  | 9.659 ppbv  | 96     |
| 15) Acetone                    | 3.85 | 43  | 1172735 | 8.568 ppbv  | 100    |
| 16) 1,3-Butadiene              | 3.33 | 39  | 877221  | 9.206 ppbv  | 97     |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1242842 | 10.431 ppbv | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 586010  | 8.914 ppbv  | 99     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 721619  | 9.584 ppbv  | 99     |
| 20) Methylene Chloride         | 4.34 | 84  | 532728  | 8.313 ppbv  | 94     |
| 21) Allyl Chloride             | 4.41 | 41  | 1038462 | 9.517 ppbv  | 98     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 587726  | 9.643 ppbv  | 92     |
| 23) Vinyl Acetate              | 5.07 | 43  | 2356161 | 10.063 ppbv | 99     |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1551621 | 9.092 ppbv  | 99     |
| 25) Ethyl Acetate              | 5.68 | 43  | 3189880 | 9.803 ppbv  | 100    |
| 26) Hexane                     | 5.69 | 57  | 1473741 | 9.759 ppbv  | 99     |
| 27) Carbon Disulfide           | 4.55 | 76  | 1444251 | 9.708 ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 1708942 | 9.596 ppbv  | 99     |
| 29) Chloroform                 | 5.75 | 83  | 2355234 | 9.752 ppbv  | 99     |
| 30) Cyclohexane                | 7.13 | 84  | 1232340 | 10.062 ppbv | 98     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 1457938 | 9.982 ppbv  | 96     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2378263 | 9.771 ppbv  | 99     |
| 34) 2-Butanone                 | 5.24 | 43  | 1576615 | 9.127 ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 2480996 | 9.128 ppbv  | 99     |
| 36) Benzene                    | 6.89 | 78  | 3105474 | 9.515 ppbv  | 100    |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1796923 | 9.354 ppbv  | 100    |
| 38) Trichloroethene            | 7.83 | 130 | 1143570 | 9.003 ppbv  | 98     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1217820 | 9.199 ppbv  | 98     |
| 40) 1,4-Dioxane                | 7.84 | 88  | 135779  | 4.407 ppbv  | # 1    |
| 41) Tetrahydrofuran            | 6.05 | 42  | 732709  | 9.199 ppbv  | 94     |
| 42) Bromodichloromethane       | 7.79 | 83  | 2510980 | 9.610 ppbv  | 99     |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1113268 | 10.158 ppbv | 98     |

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 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

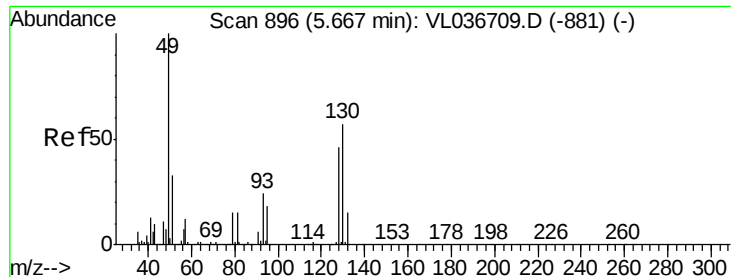
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Apr 08 02:39:43 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 09:42:40 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 5232590  | 9.109  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1304952  | 10.428 | ppbv   | 96       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1642421  | 10.267 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1261910  | 9.410  | ppbv   | 93       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2065588  | 10.105 | ppbv   | 99       |
| 49) Bromoform                 | 13.05 | 173  | 1697985  | 10.309 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2439062  | 9.758  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 1288290  | 10.214 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.23 | 164  | 1058230  | 8.805  | ppbv   | 98       |
| 53) Toluene                   | 9.81  | 91   | 3485194  | 10.027 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1820388  | 9.613  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1417554  | 7.836  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.15 | 112  | 2595579  | 7.627  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.72 | 91   | 4683179  | 8.048  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.01 | 91   | 4113365  | 8.104  | ppbv # | 35       |
| 60) o-Xylene                  | 13.70 | 91   | 3760175  | 7.662  | ppbv   | 100      |
| 61) Styrene                   | 13.54 | 104  | 2209408  | 8.949  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.67 | 105  | 5093879  | 7.708  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2738386  | 7.315  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.57 | 120  | 1341117  | 8.300  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 4422133  | 7.716  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 529449   | 8.358  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 6227597  | 7.698  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 5176103  | 8.194  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.56 | 91   | 5320007  | 8.122  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 3957230  | 7.991  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 4445981  | 8.268  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 4059626  | 8.088  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 4167343  | 7.759  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 2415252  | 7.989  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 2327135  | 7.753  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2347782  | 8.261  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 1715075  | 6.739  | ppbv   | 99       |
| 79) Naphthalene               | 22.21 | 128  | 2780409  | 8.871  | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 557297   | 9.017  | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 1624222  | 8.393  | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

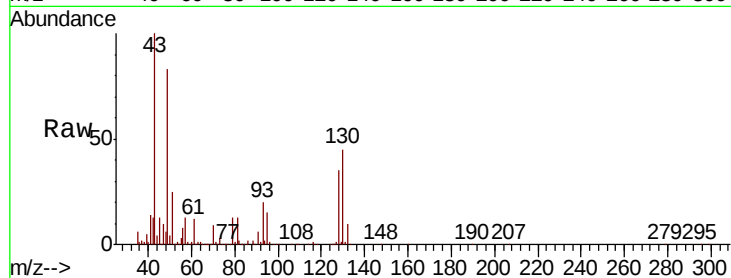
Tot Ion: 49 Resp: 1390678

Ion Ratio Lower Upper

49 100

128 48.5 23.5 70.6

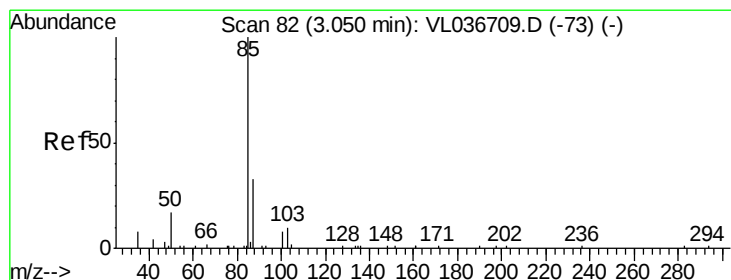
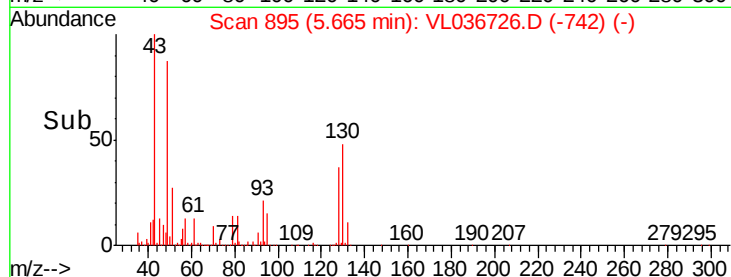
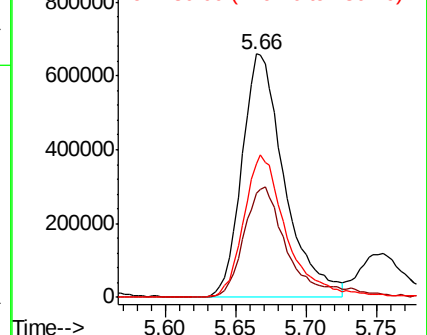
130 59.6 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.144 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036726.D

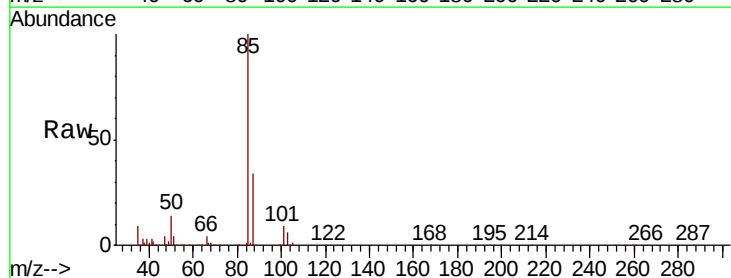
Acq: 7 Apr 2021 13:20

Tgt Ion: 85 Resp: 2074166

Ion Ratio Lower Upper

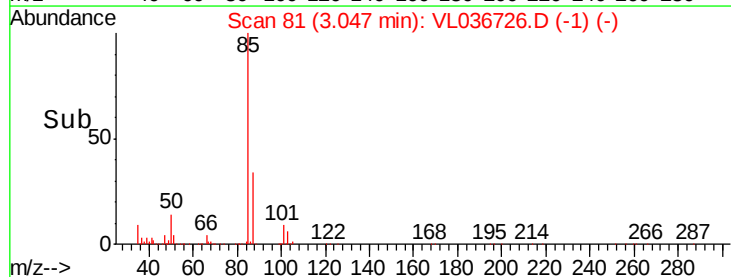
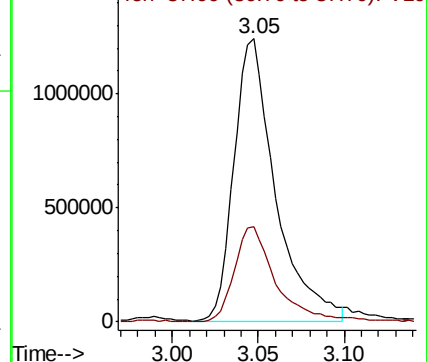
85 100

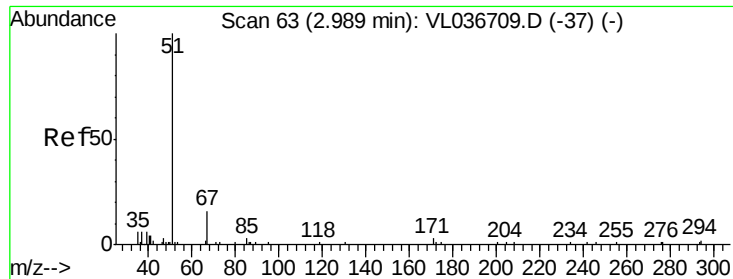
87 33.6 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

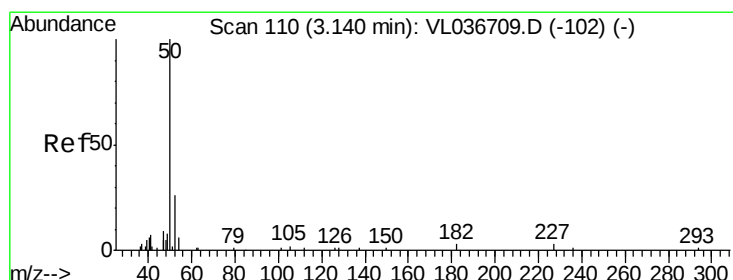
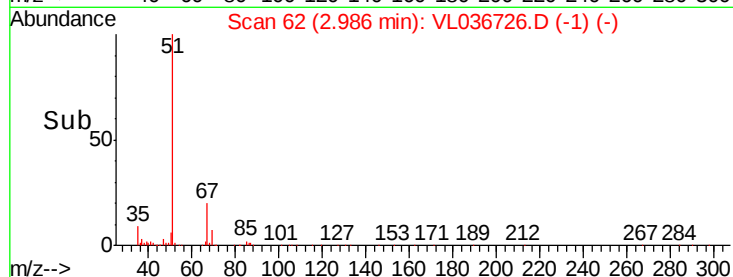
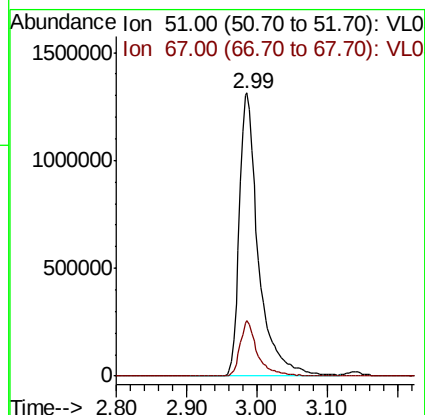
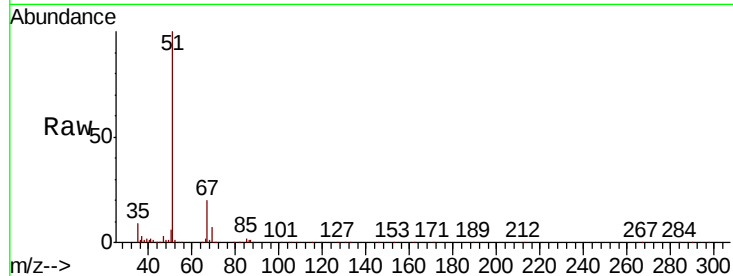




#3  
Chlorodifluoromethane  
Concen: 9.570 ppbv  
RT: 2.99 min Scan# 62  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

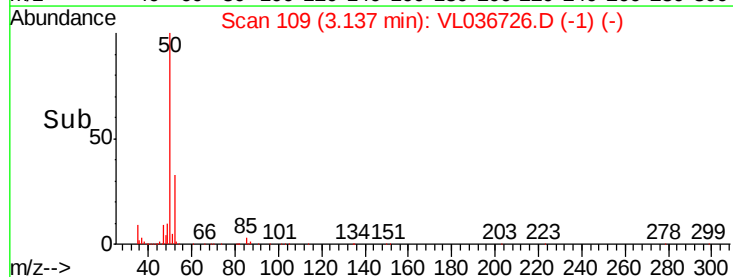
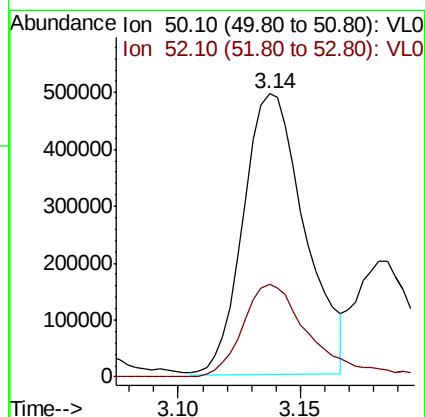
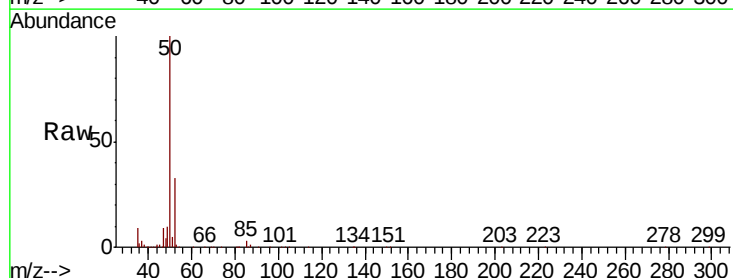
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

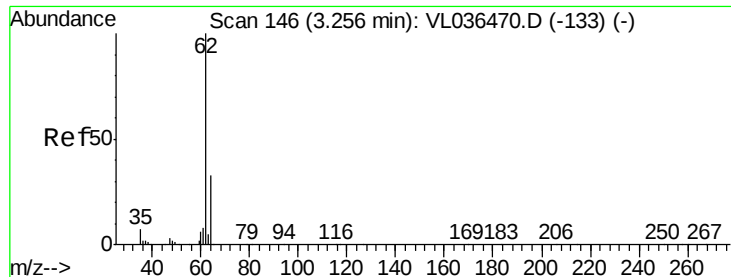
Tot Ion: 51 Resp: 2486479  
Ion Ratio Lower Upper  
51 100  
67 18.3 14.7 22.1



#4  
Chloromethane  
Concen: 9.453 ppbv  
RT: 3.14 min Scan# 109  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion: 50 Resp: 867551  
Ion Ratio Lower Upper  
50 100  
52 33.1 27.0 40.6





#5

Vinyl Chloride

Concen: 8.887 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleID :

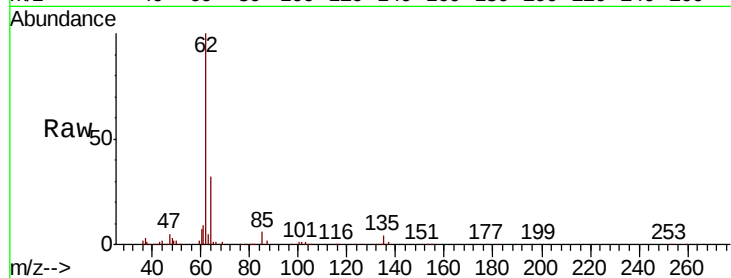
VSTDCCC010

Tot Ion: 62 Resp: 838625

Ion Ratio Lower Upper

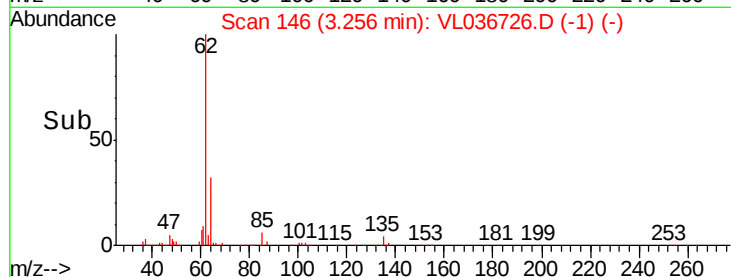
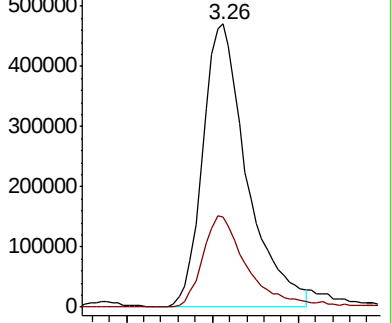
62 100

64 31.9 26.4 39.6

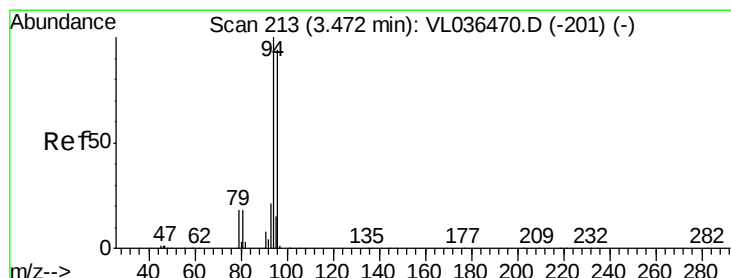


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 8.912 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL036726.D

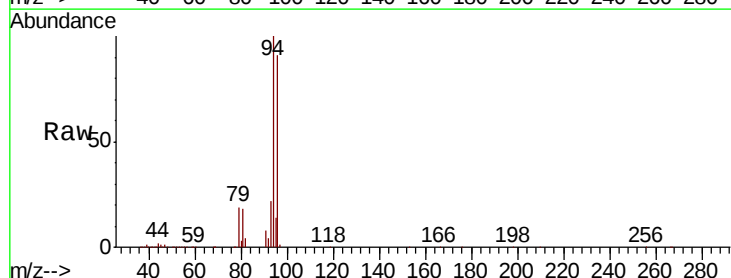
Acq: 7 Apr 2021 13:20

Tgt Ion: 94 Resp: 463021

Ion Ratio Lower Upper

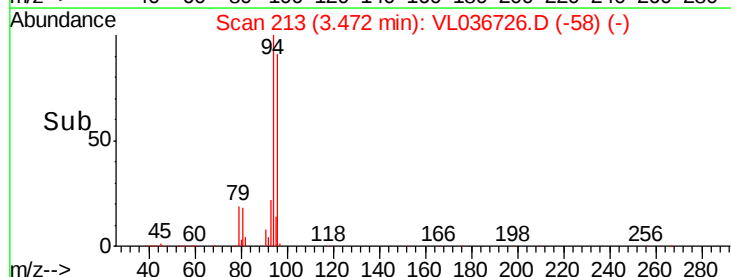
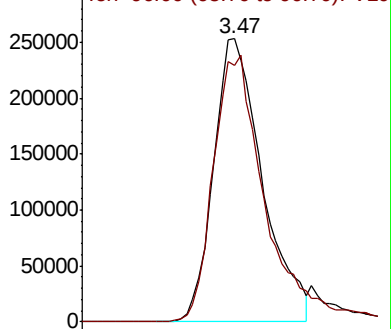
94 100

96 90.8 74.9 112.3

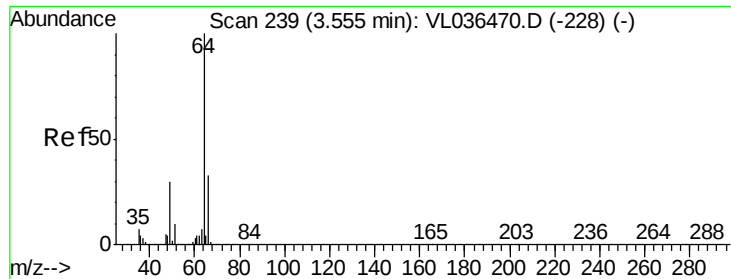


Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->



#7

Chloroethane

Concen: 9.093 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

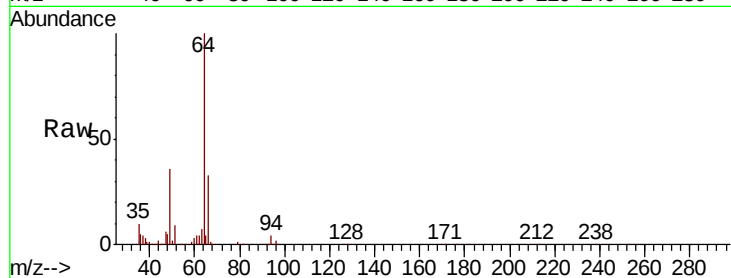
VSTDCCC010

Tot Ion: 64 Resp: 294861

Ion Ratio Lower Upper

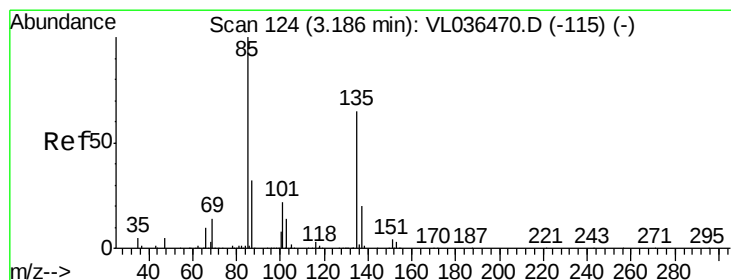
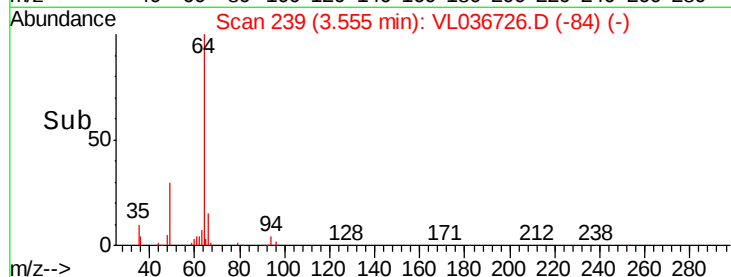
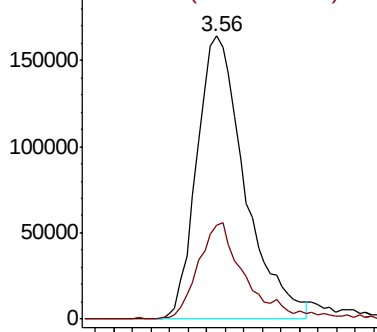
64 100

66 33.2 26.2 39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.358 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL036726.D

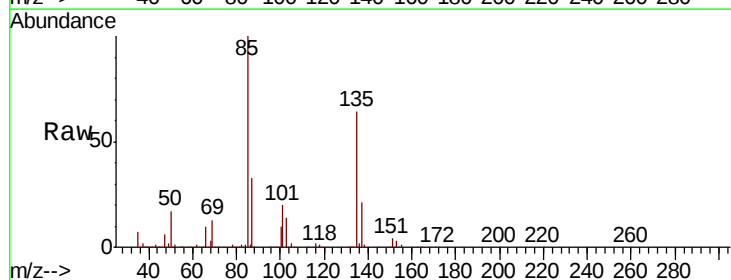
Acq: 7 Apr 2021 13:20

Tgt Ion: 85 Resp: 2025797

Ion Ratio Lower Upper

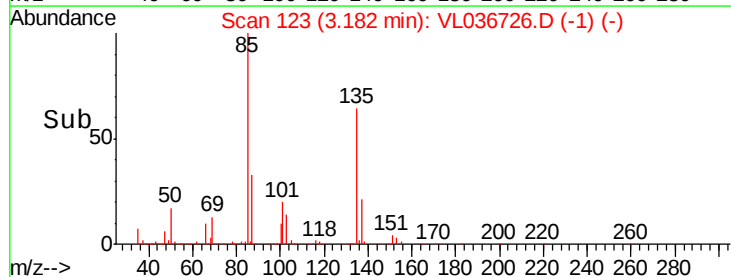
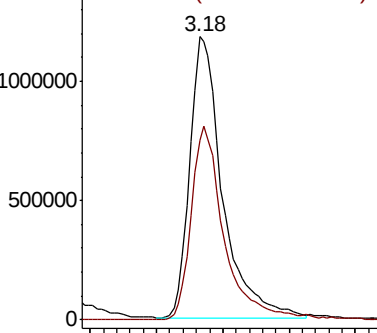
85 100

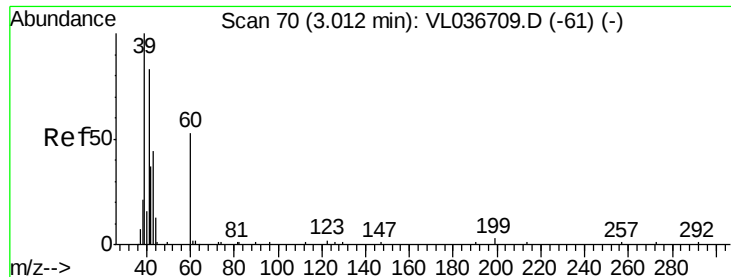
135 70.1 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.771 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

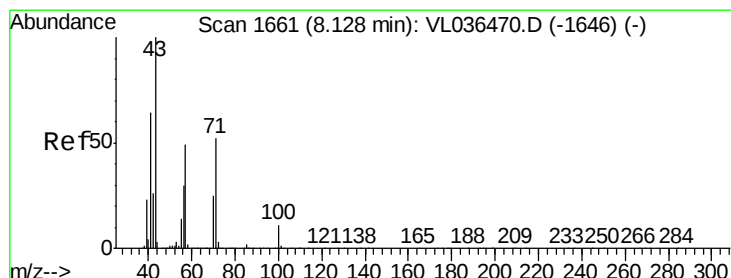
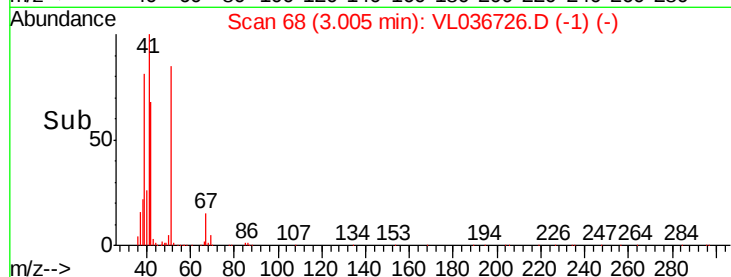
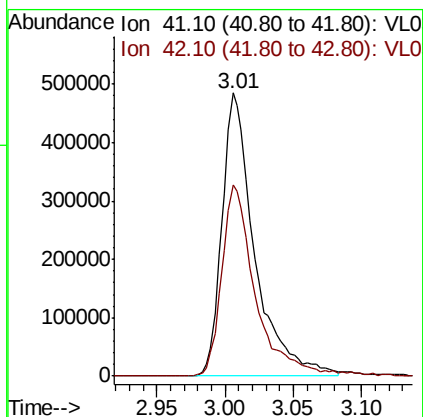
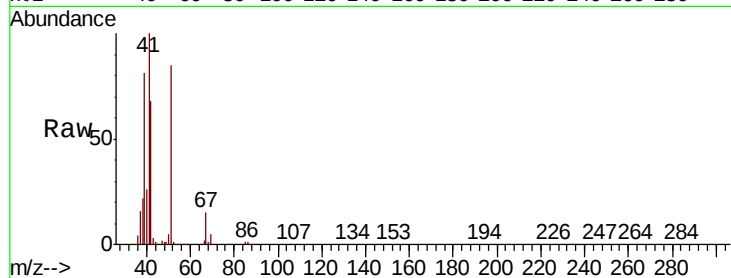
VSTDCCC010

Tot Ion: 41 Resp: 809385

Ion Ratio Lower Upper

41 100

42 70.3 57.0 85.4



#10

Heptane

Concen: 9.896 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL036726.D

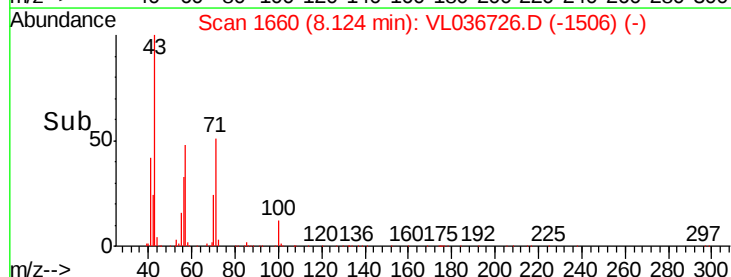
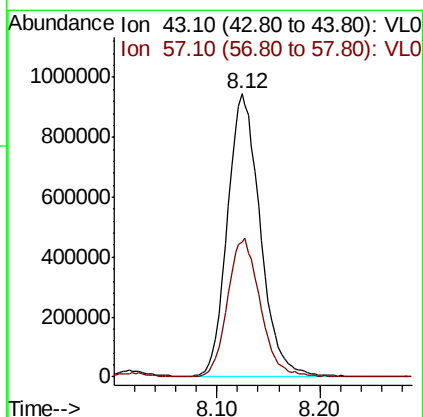
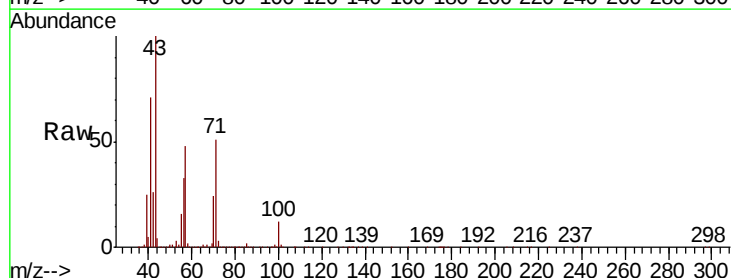
Acq: 7 Apr 2021 13:20

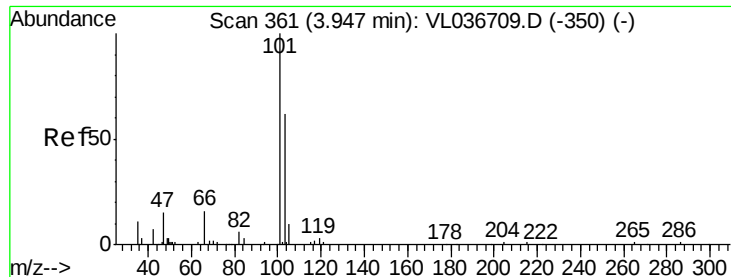
Tgt Ion: 43 Resp: 2088285

Ion Ratio Lower Upper

43 100

57 49.1 39.0 58.6

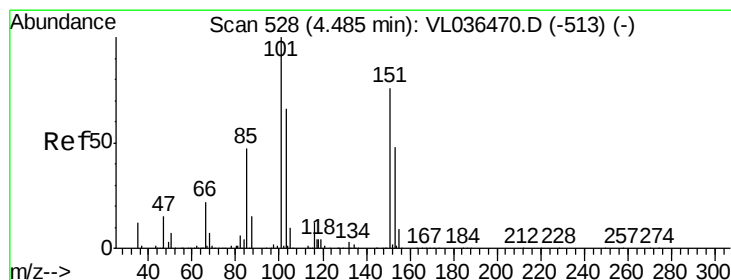
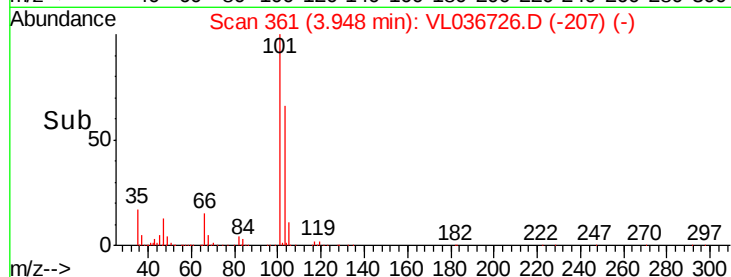
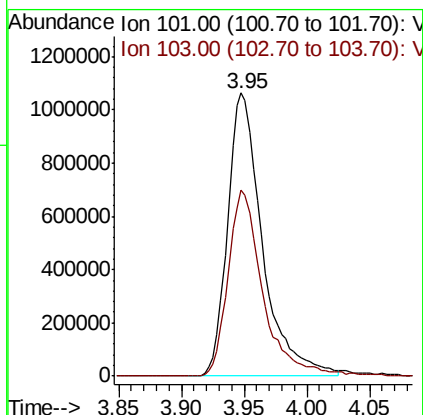
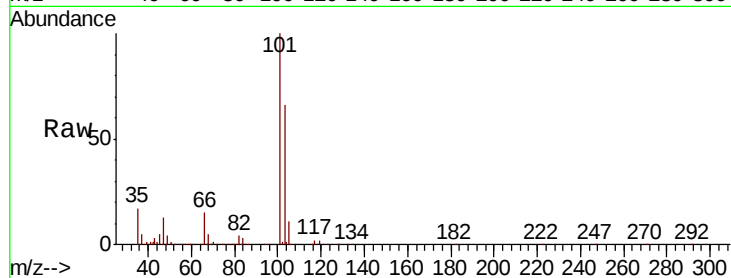




#11  
 Trichlorofluoromethane  
 Concen: 8.866 ppbv  
 RT: 3.95 min Scan# 361  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

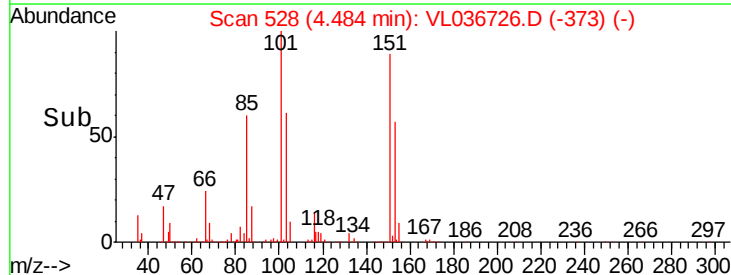
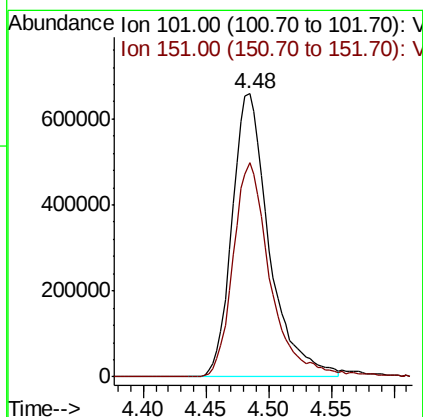
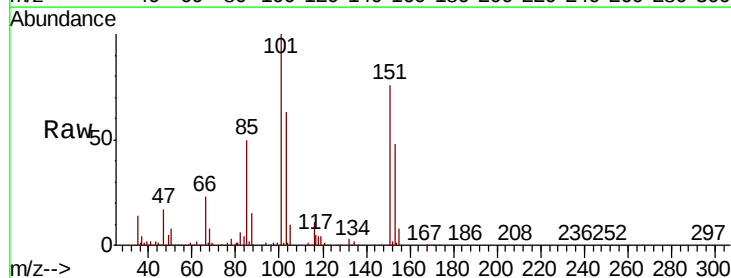
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

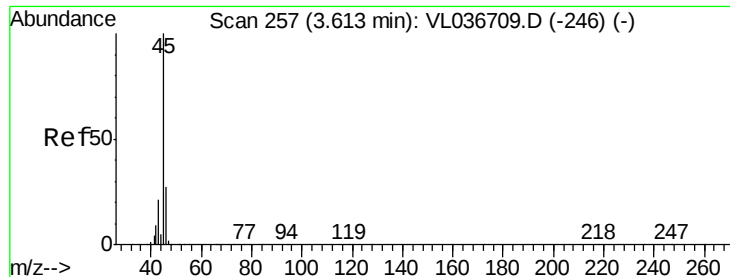
Tot Ion:101 Resp: 2049525  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.192 ppbv  
 RT: 4.48 min Scan# 528  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Tgt Ion:101 Resp: 1358451  
 Ion Ratio Lower Upper  
 101 100  
 151 76.4 60.9 91.3





#13

Ethanol

Concen: 7.747 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

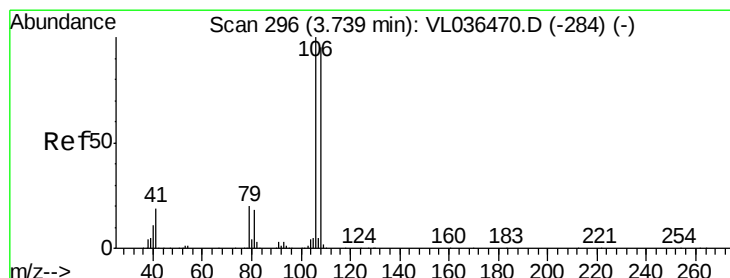
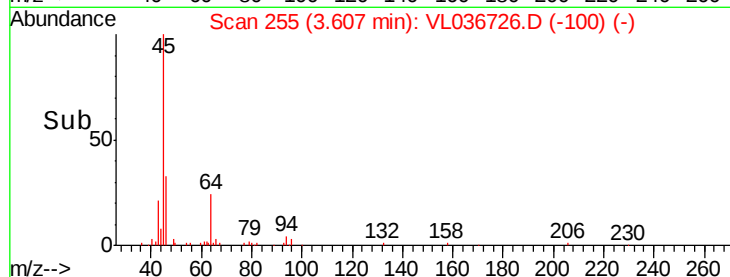
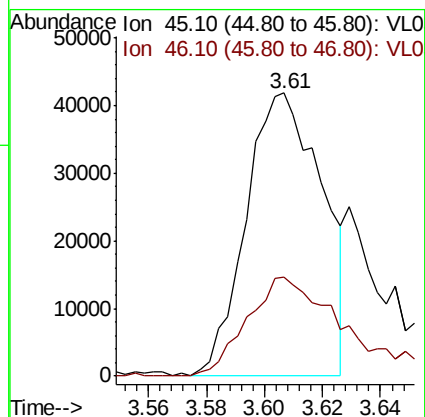
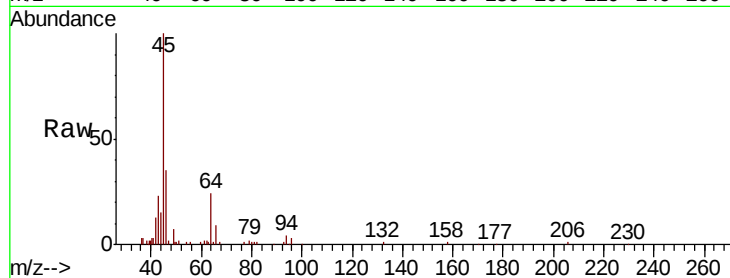
VSTDCCC010

Tot Ion: 45 Resp: 76418

Ion Ratio Lower Upper

45 100

46 49.1 16.6 66.2



#14

Bromoethene

Concen: 9.659 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

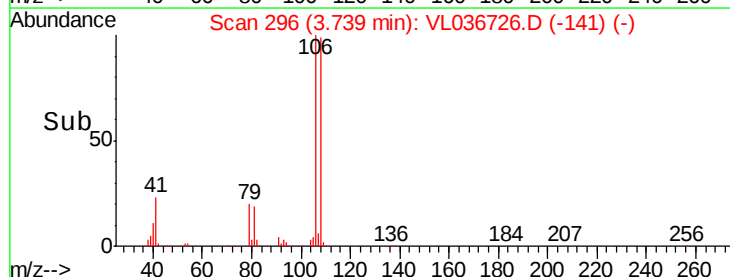
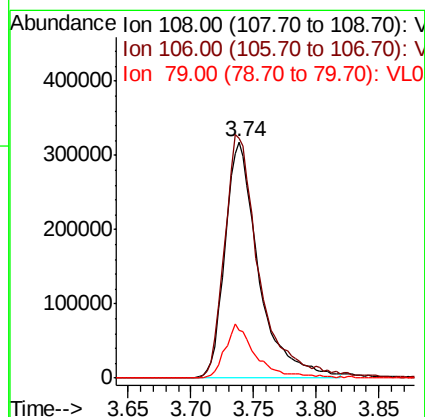
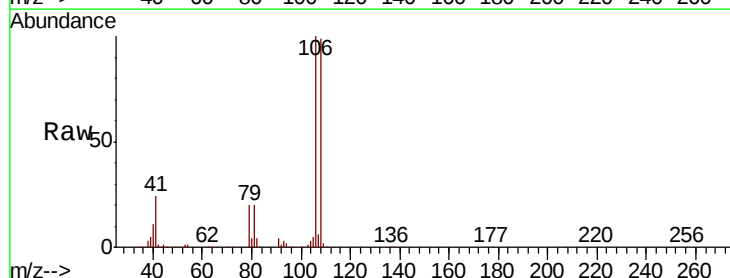
Tgt Ion: 108 Resp: 593483

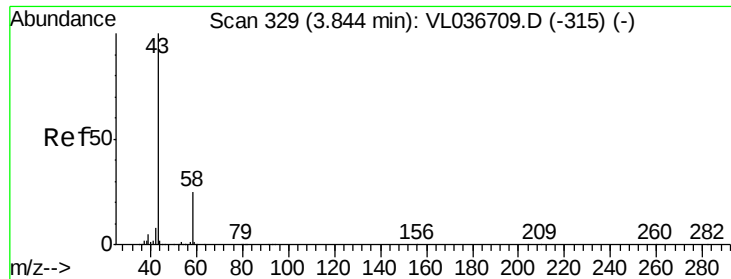
Ion Ratio Lower Upper

108 100

106 106.8 89.0 133.6

79 21.3 16.6 25.0





#15

Acetone

Concen: 8.568 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

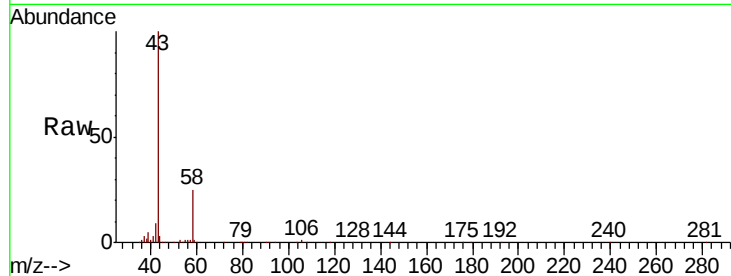
VSTDCCC010

Tot Ion: 43 Resp: 1172735

Ion Ratio Lower Upper

43 100

58 26.3 21.2 31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

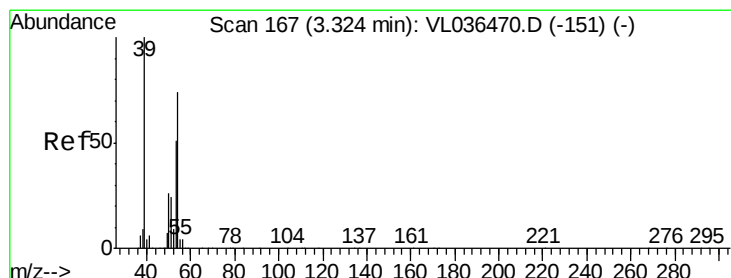
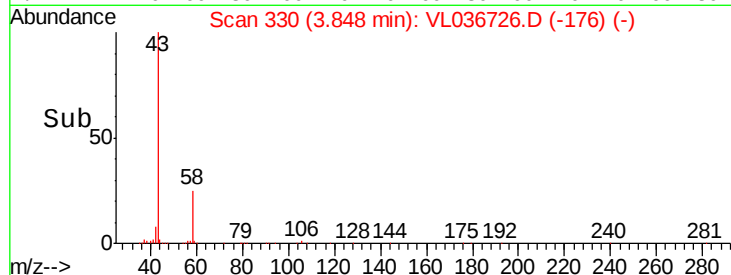
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.206 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL036726.D

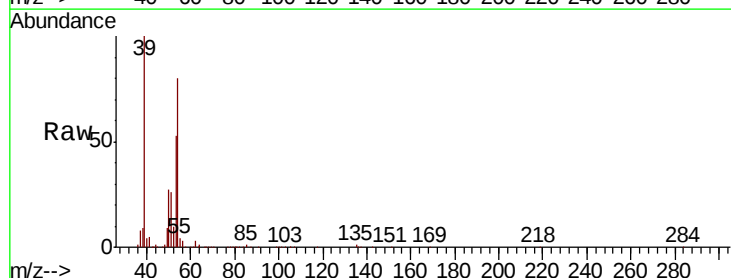
Acq: 7 Apr 2021 13:20

Tgt Ion: 39 Resp: 877221

Ion Ratio Lower Upper

39 100

54 75.8 58.8 88.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.33

500000

400000

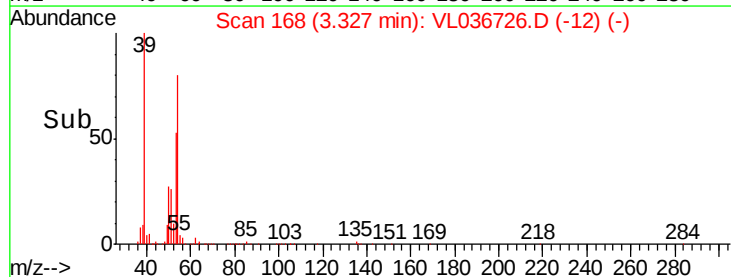
300000

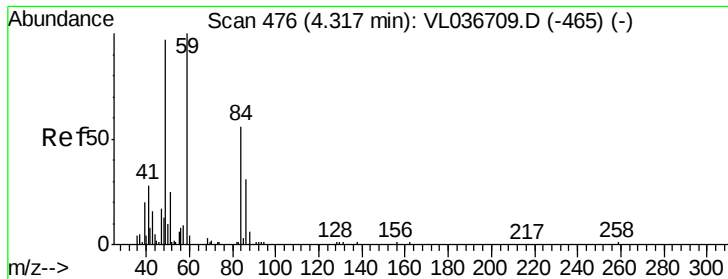
200000

100000

0

Time-->



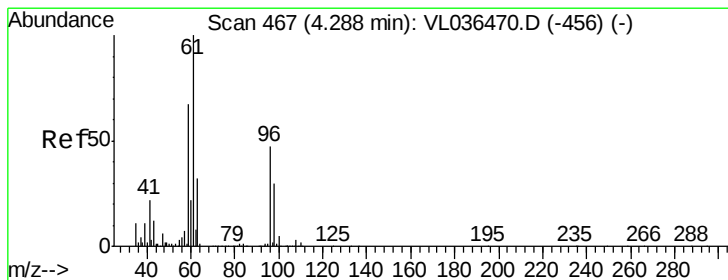
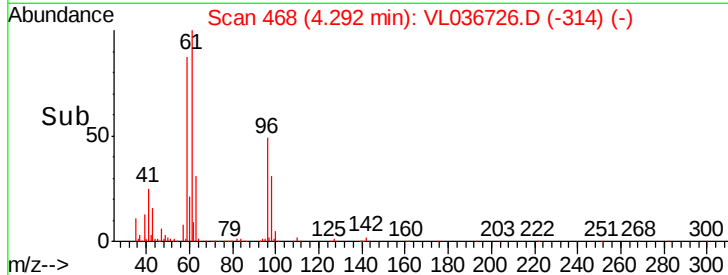
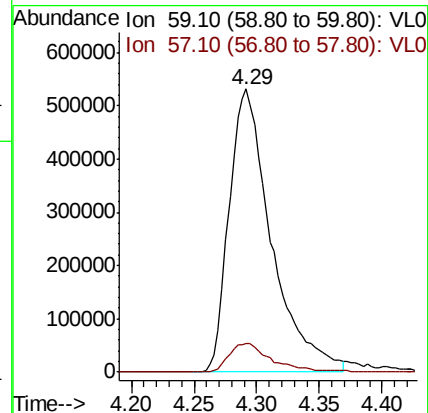
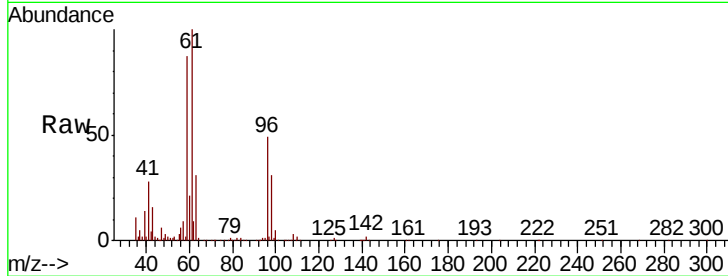


#17

tert-Butyl alcohol  
 Concen: 10.431 ppbv  
 RT: 4.29 min Scan# 468  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010

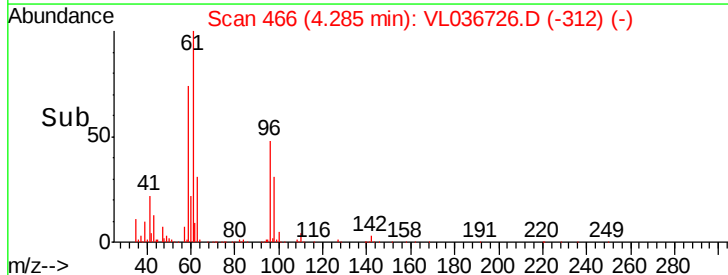
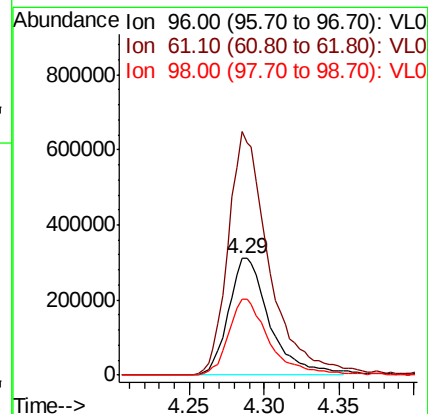
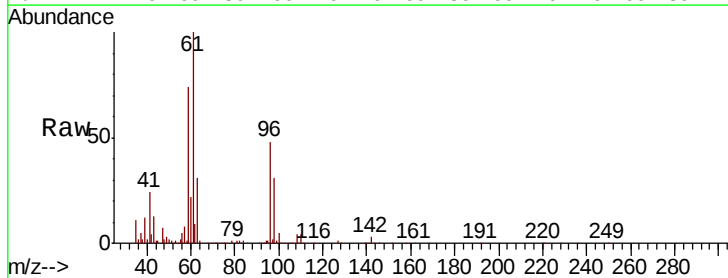
Tot Ion: 59 Resp: 1242842  
 Ion Ratio Lower Upper  
 59 100  
 57 10.8 8.6 12.8

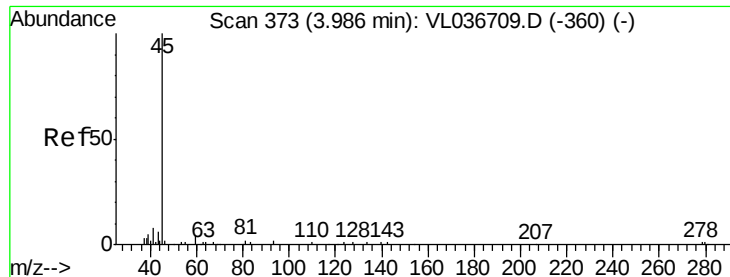


#18

1,1-Dichloroethene  
 Concen: 8.914 ppbv  
 RT: 4.29 min Scan# 466  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Tgt Ion: 96 Resp: 586010  
 Ion Ratio Lower Upper  
 96 100  
 61 208.9 168.6 253.0  
 98 64.6 50.8 76.2





#19

Isopropyl Alcohol

Concen: 9.584 ppbv

RT: 3.97 min Scan# 368

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

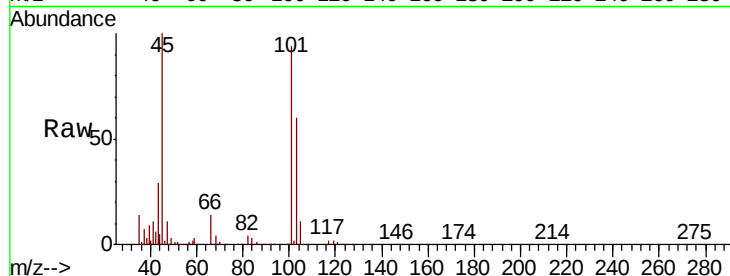
VSTDCCC010

Tot Ion: 45 Resp: 721619

Ion Ratio Lower Upper

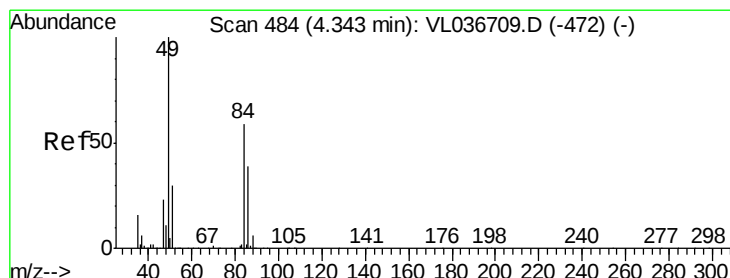
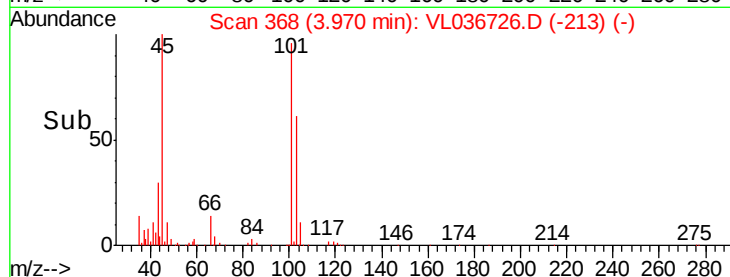
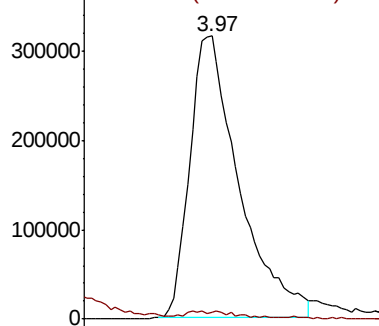
45 100

58 3.4 2.9 4.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.313 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Tgt Ion: 84 Resp: 532728

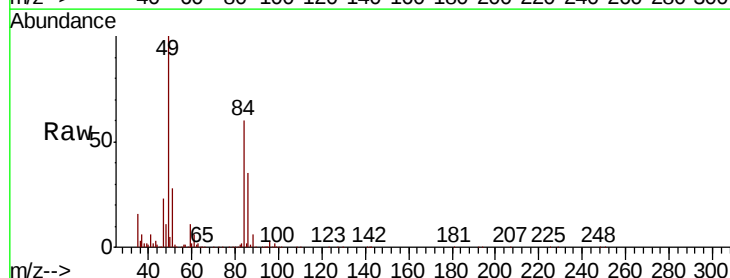
Ion Ratio Lower Upper

84 100

49 166.1 122.9 184.3

51 44.9 36.9 55.3

86 58.9 48.2 72.4

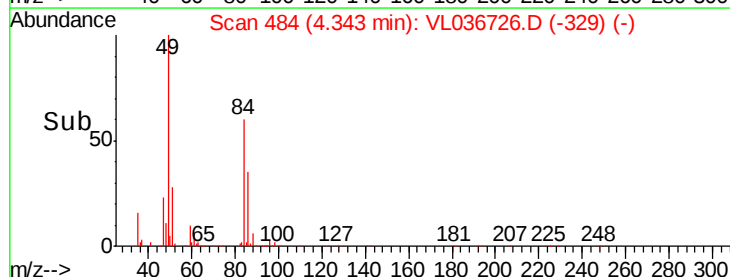
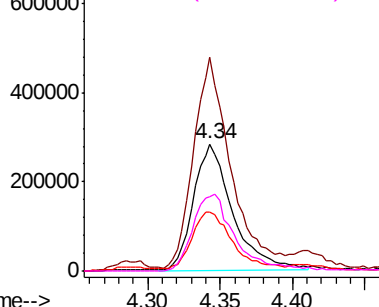


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



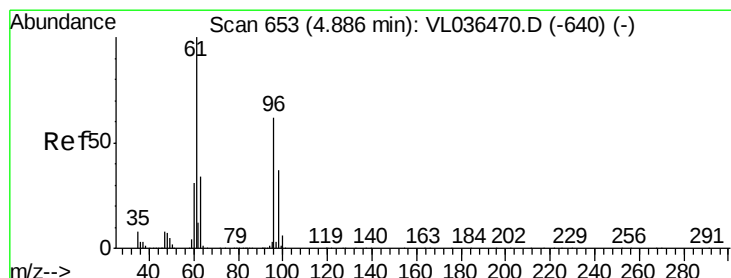
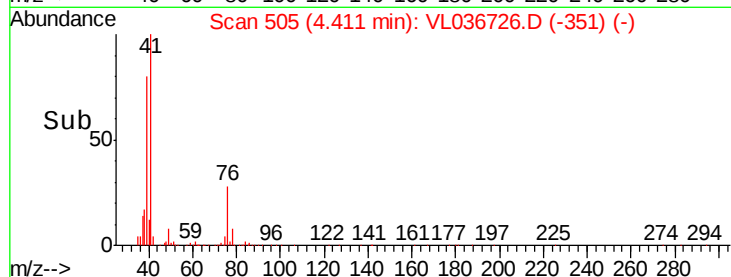
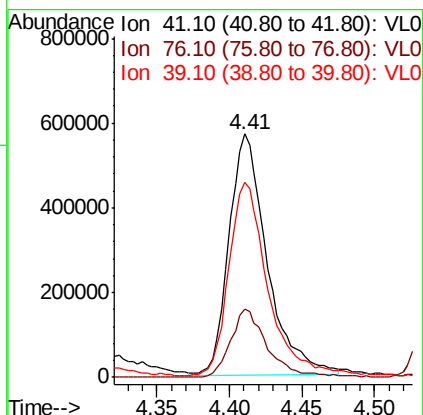
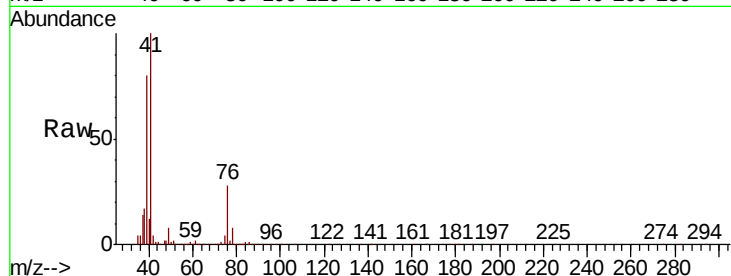


#21  
Allvl Chloride  
Concen: 9.517 ppbv  
RT: 4.41 min Scan# 505  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 41 Resp: 1038462

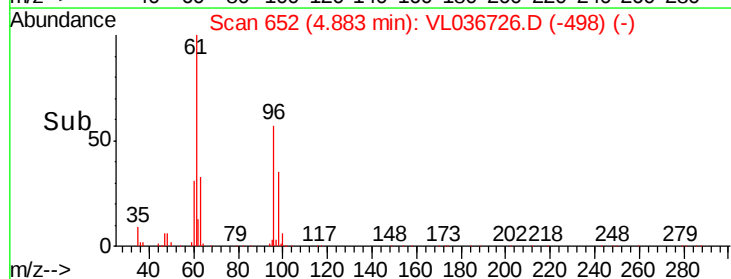
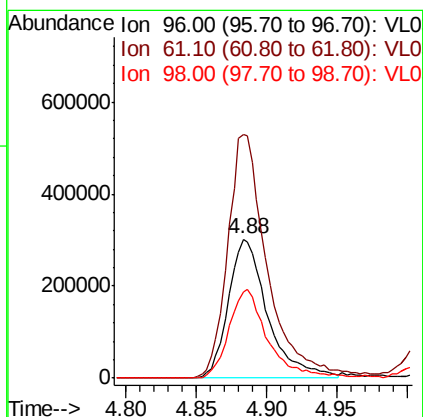
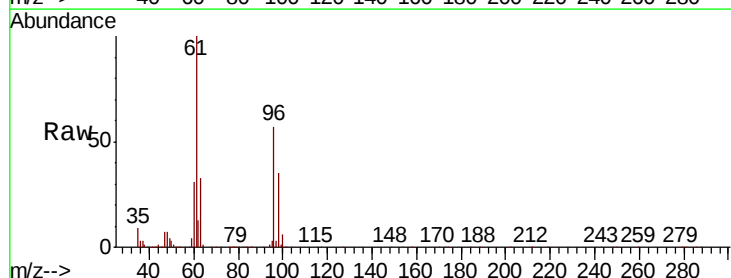
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 76  | 27.7  | 22.9  | 34.3  |
| 39  | 85.7  | 67.3  | 100.9 |

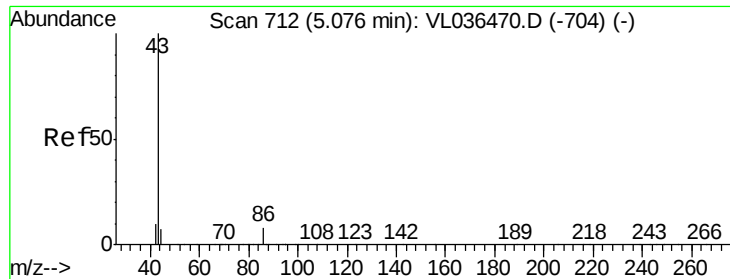


#22  
trans-1,2-Dichloroethene  
Concen: 9.643 ppbv  
RT: 4.88 min Scan# 652  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion: 96 Resp: 587726

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 175.1 | 129.4 | 194.0 |
| 98  | 62.0  | 48.2  | 72.4  |



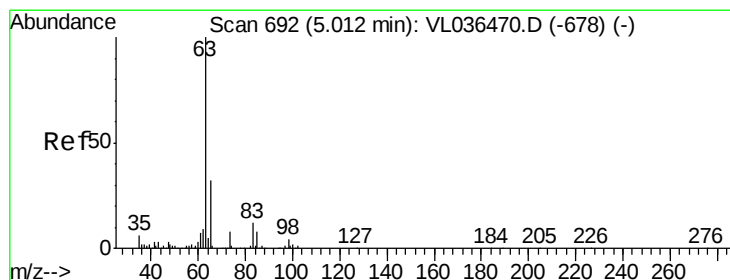
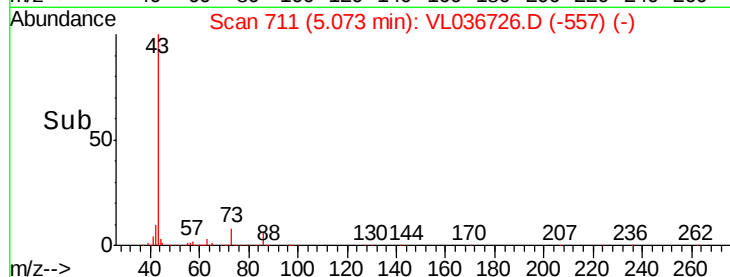
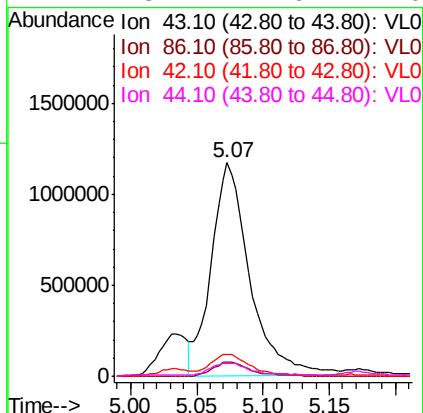
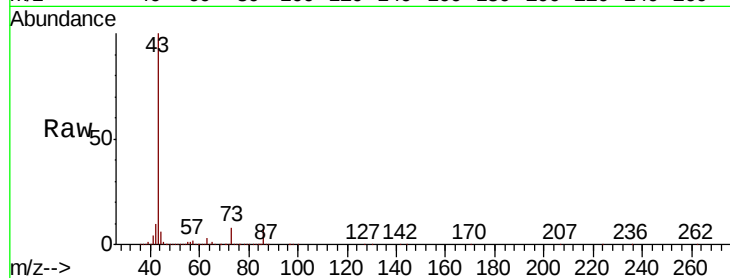


#23  
 Vinyl Acetate  
 Concen: 10.063 ppbv  
 RT: 5.07 min Scan# 711  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 43 Resp: 2356161

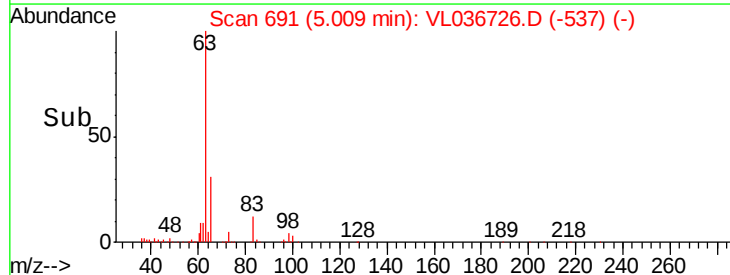
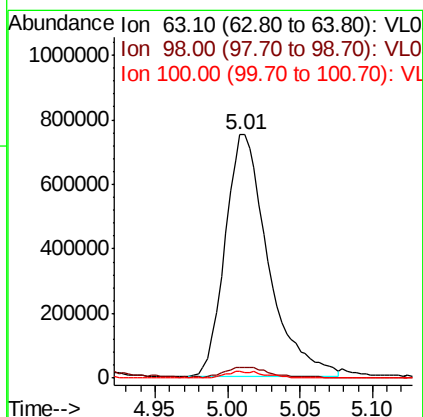
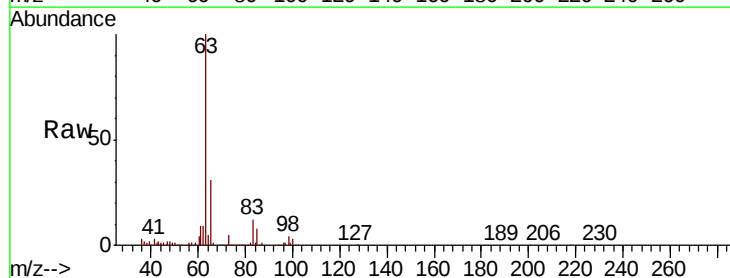
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.5   | 5.4   | 8.0   |
| 42  | 10.1  | 8.5   | 12.7  |
| 44  | 5.2   | 4.6   | 7.0   |

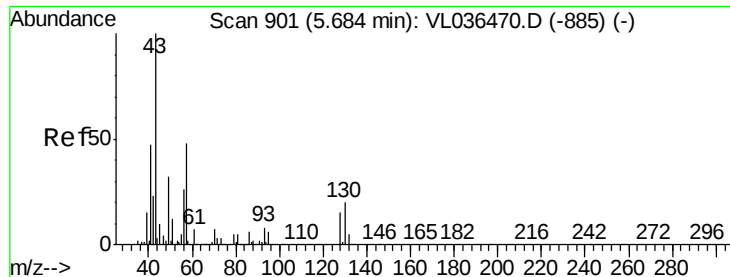


#24  
 1,1-Dichloroethane  
 Concen: 9.092 ppbv  
 RT: 5.01 min Scan# 691  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Tgt Ion: 63 Resp: 1551621

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.0   | 2.1   | 6.2   |
| 100 | 2.6   | 0.9   | 2.8   |



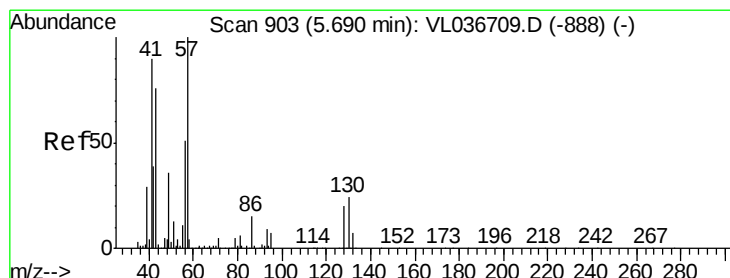
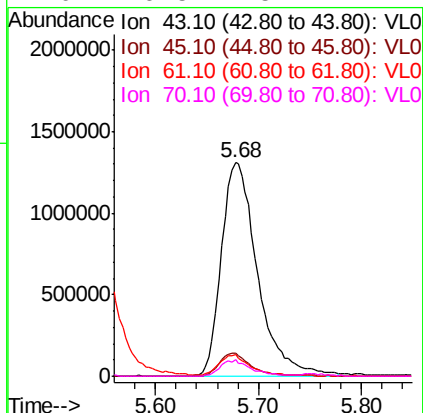
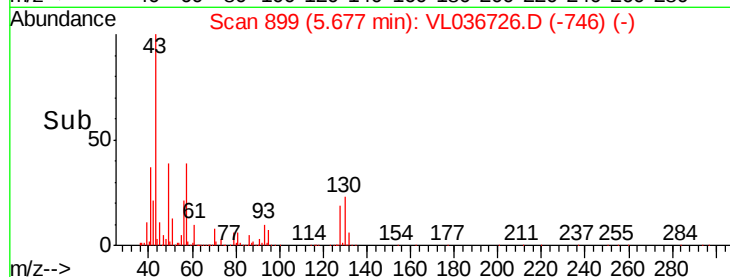
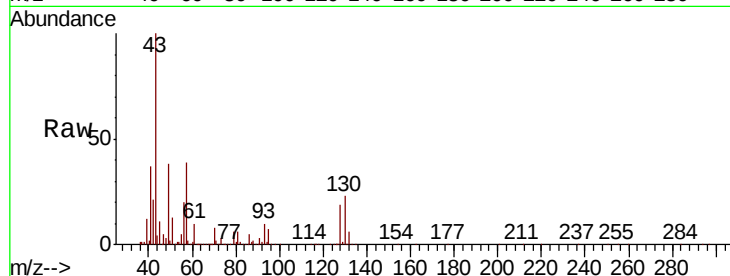


#25  
Ethyl Acetate  
Concen: 9.803 ppbv  
RT: 5.68 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 43 Resp: 3189880

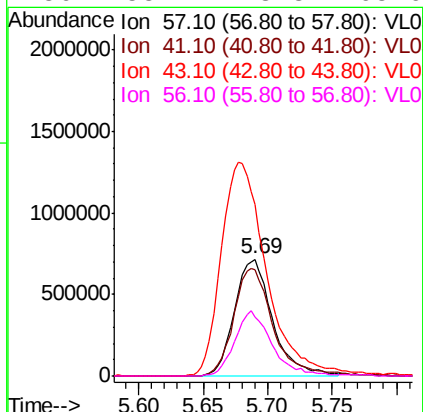
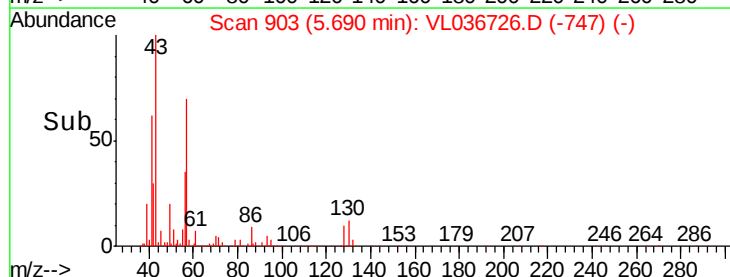
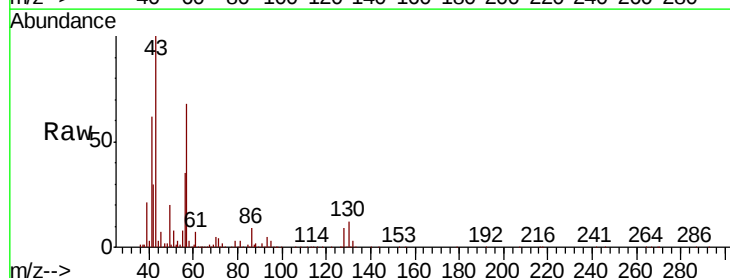
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.8   | 7.9   | 11.9  |
| 61  | 9.1   | 7.4   | 11.2  |
| 70  | 6.5   | 5.1   | 7.7   |

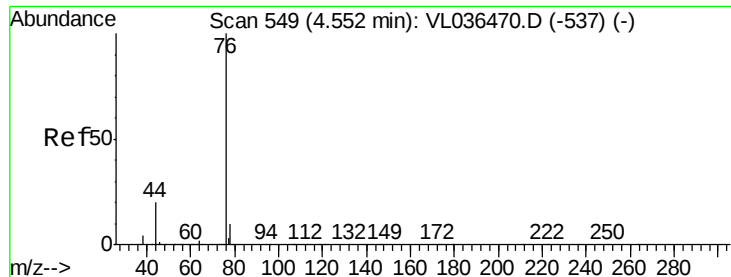


#26  
Hexane  
Concen: 9.759 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. 0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion: 57 Resp: 1473741

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 96.2  | 77.2  | 115.8 |
| 43  | 219.2 | 173.8 | 260.6 |
| 56  | 55.1  | 43.8  | 65.6  |





#27

Carbon Disulfide

Concen: 9.708 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

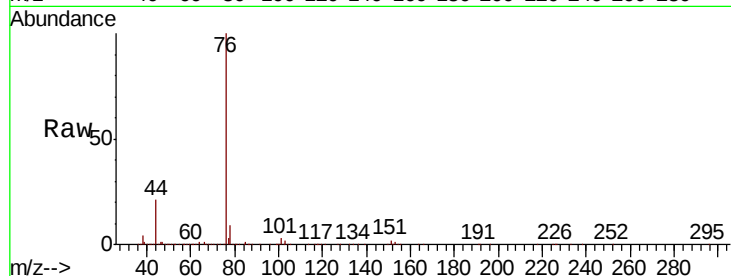
Tot Ion: 76 Resp: 1444251

Ion Ratio Lower Upper

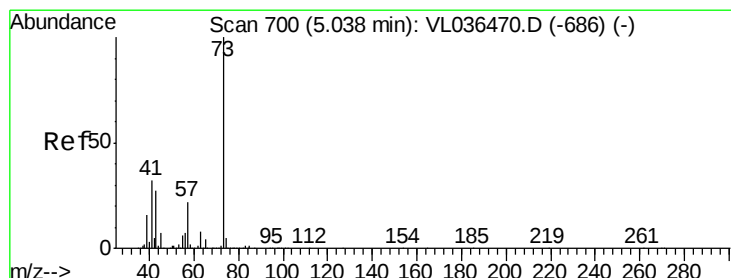
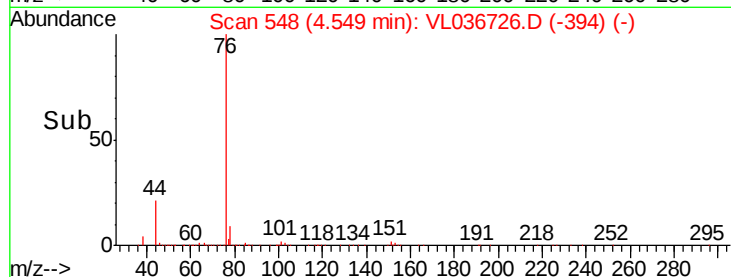
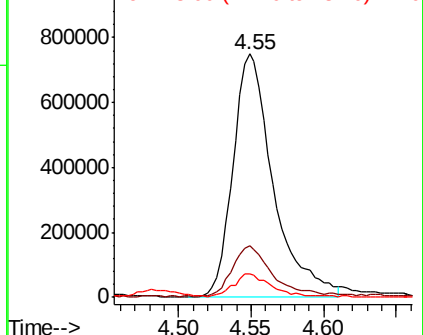
76 100

44 22.1 17.5 26.3

78 9.7 8.6 13.0



Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.596 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL036726.D

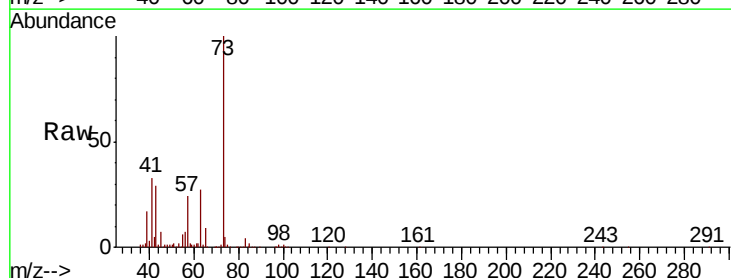
Acq: 7 Apr 2021 13:20

Tgt Ion: 73 Resp: 1708942

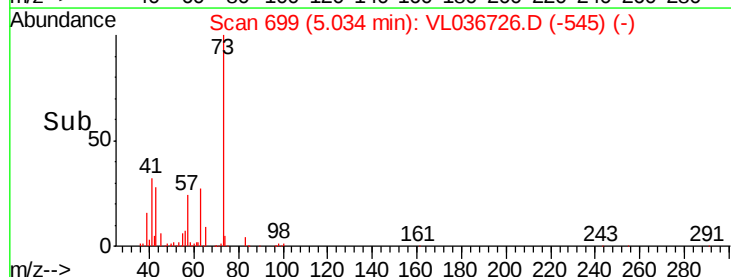
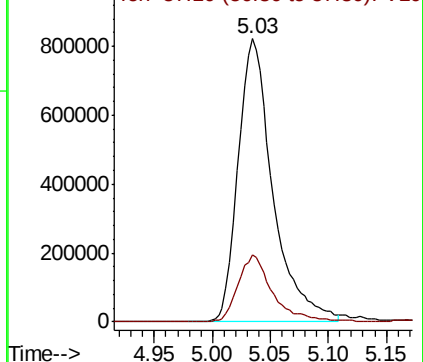
Ion Ratio Lower Upper

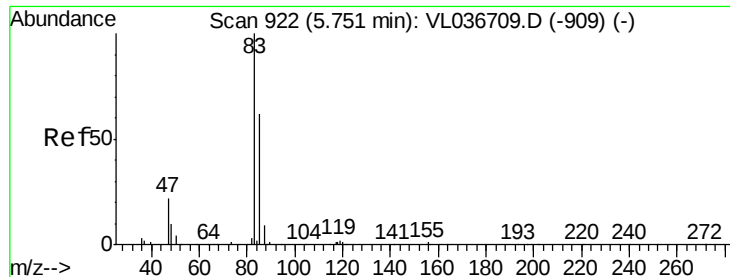
73 100

57 23.6 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0

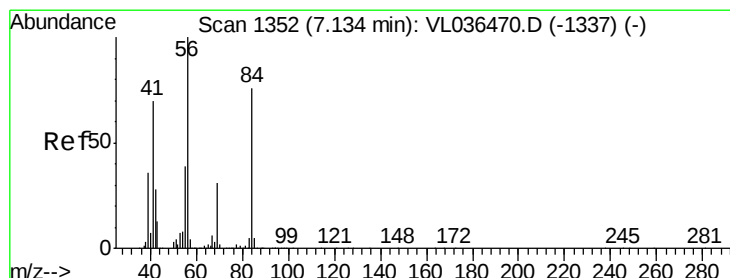
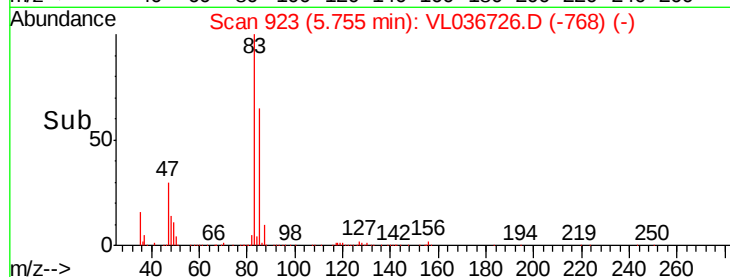
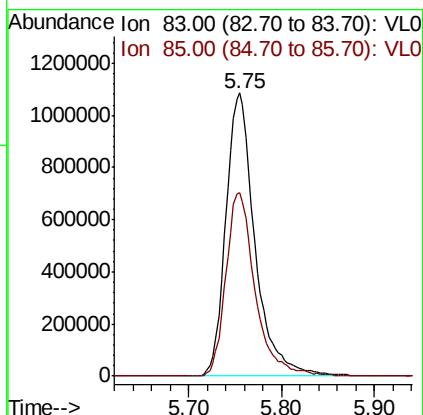
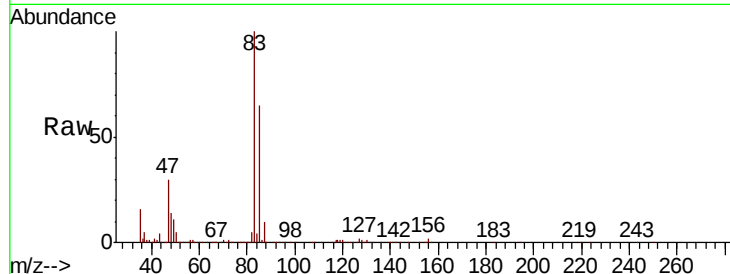




#29  
Chloroform  
Concen: 9.752 ppbv  
RT: 5.75 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

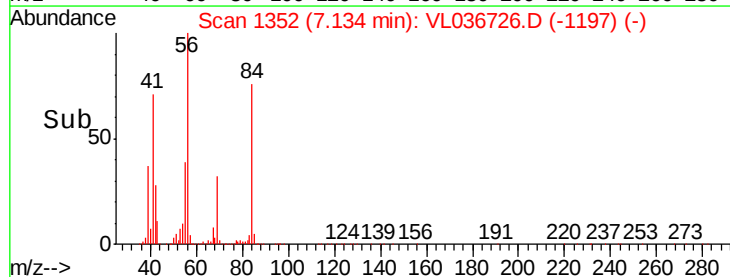
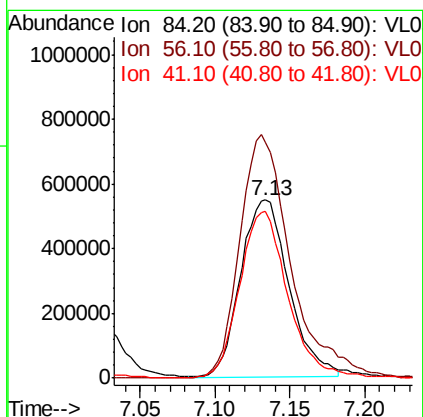
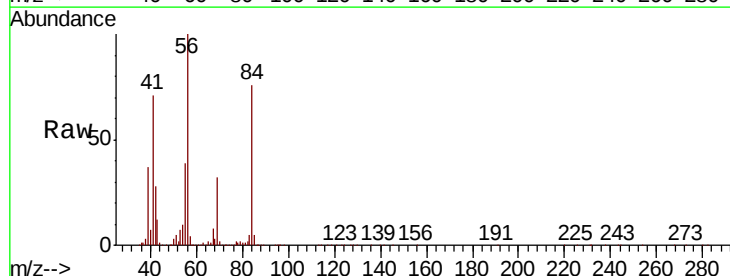
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

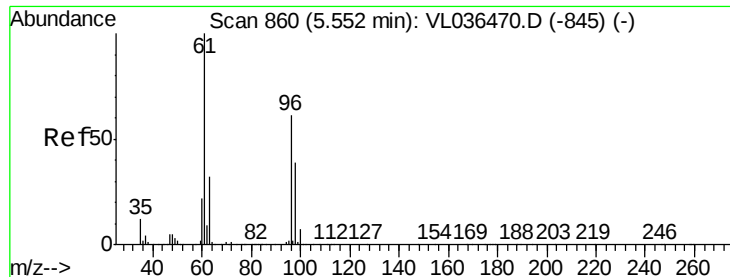
Tot Ion: 83 Resp: 2355234  
Ion Ratio Lower Upper  
83 100  
85 64.7 52.6 78.8



#30  
Cyclohexane  
Concen: 10.062 ppbv  
RT: 7.13 min Scan# 1352  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion: 84 Resp: 1232340  
Ion Ratio Lower Upper  
84 100  
56 146.8 114.6 171.8  
41 94.8 75.3 112.9



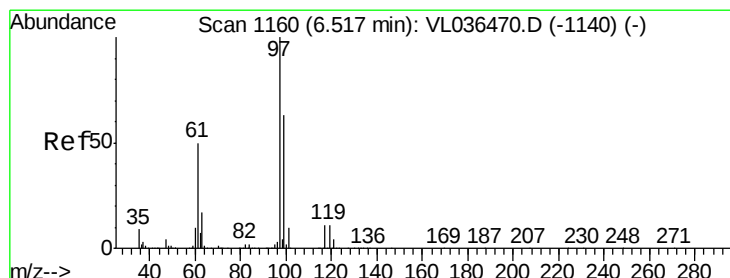
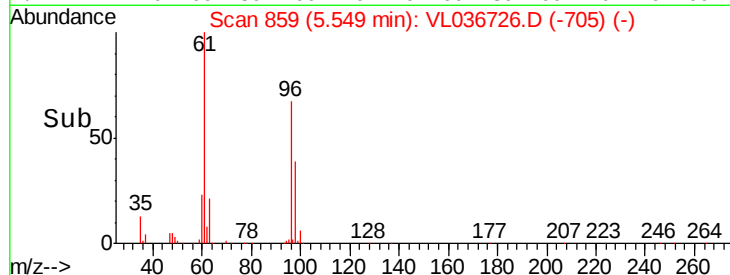
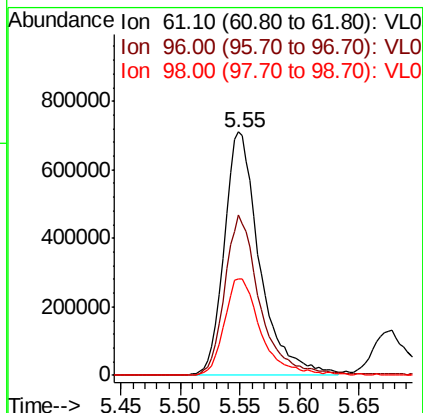
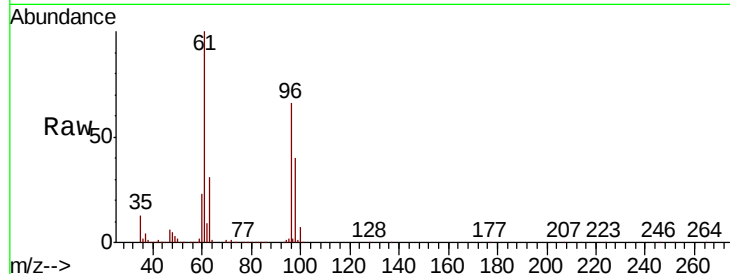


#31

cis-1,2-Dichloroethene  
 Concen: 9.982 ppbv  
 RT: 5.55 min Scan# 859  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

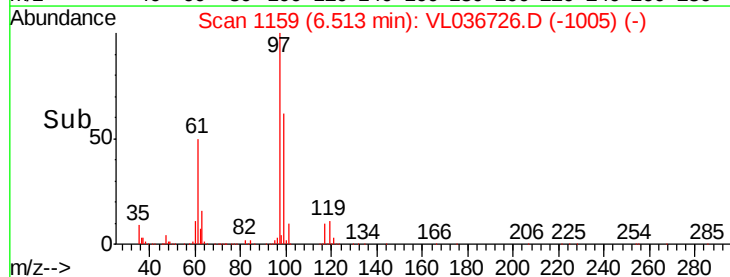
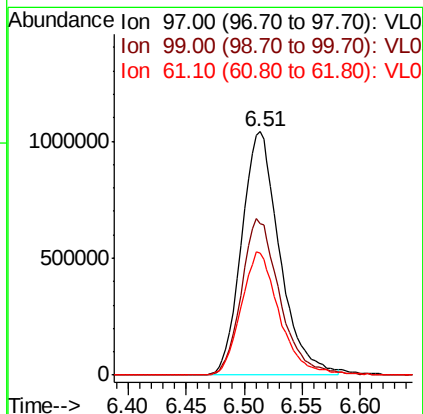
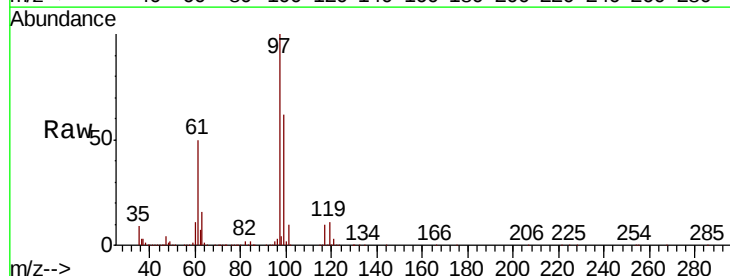
Tot Ion: 61 Resp: 1457938  
 Ion Ratio Lower Upper  
 61 100  
 96 65.8 48.7 73.1  
 98 39.7 31.4 47.0

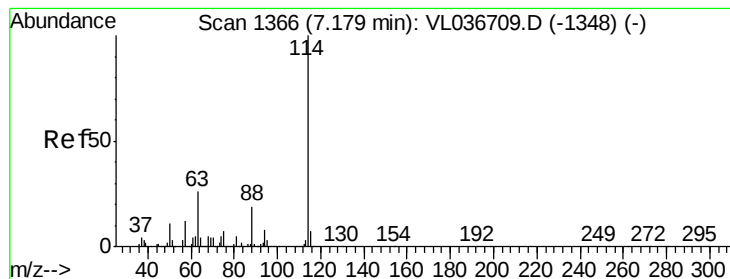


#32

1,1,1-Trichloroethane  
 Concen: 9.771 ppbv  
 RT: 6.51 min Scan# 1159  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Tgt Ion: 97 Resp: 2378263  
 Ion Ratio Lower Upper  
 97 100  
 99 64.9 51.4 77.0  
 61 51.0 40.6 60.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

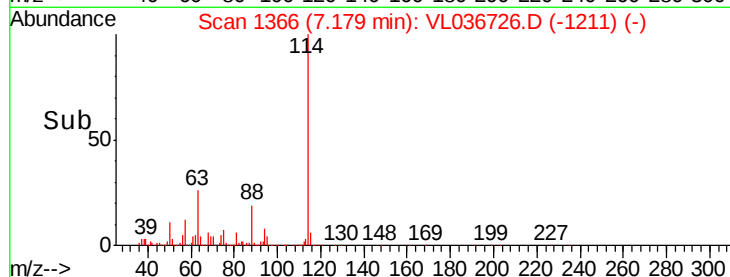
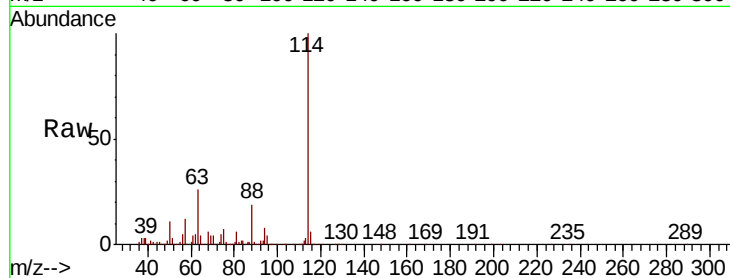
Tot Ion:114 Resp: 3538807

Ion Ratio Lower Upper

114 100

63 27.1 22.4 33.6

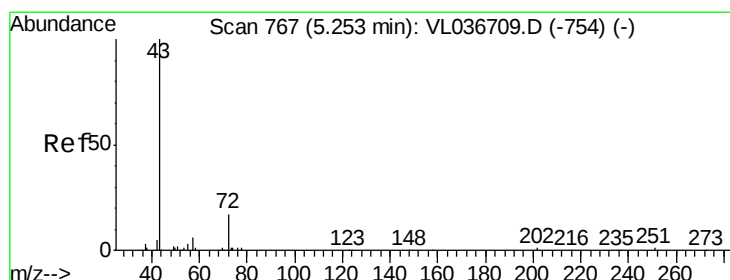
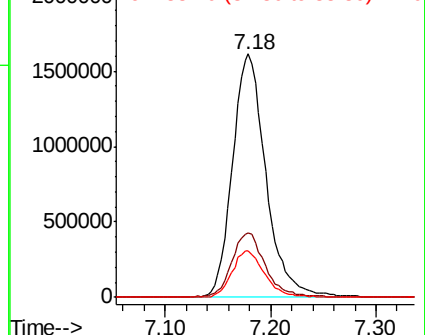
88 18.8 15.4 23.0



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: 9.127 ppbv

RT: 5.24 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL036726.D

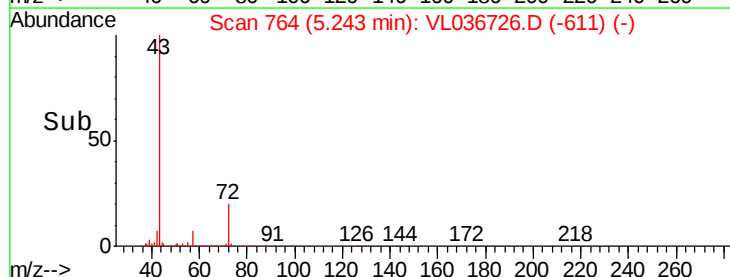
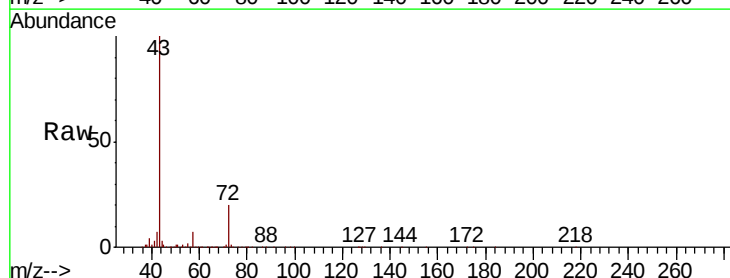
Acq: 7 Apr 2021 13:20

Tgt Ion: 43 Resp: 1576615

Ion Ratio Lower Upper

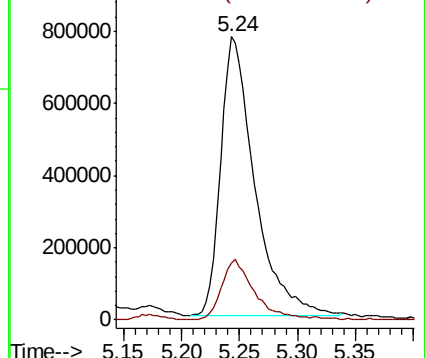
43 100

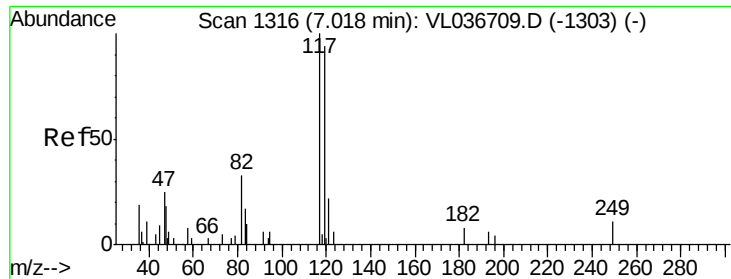
72 21.9 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.128 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

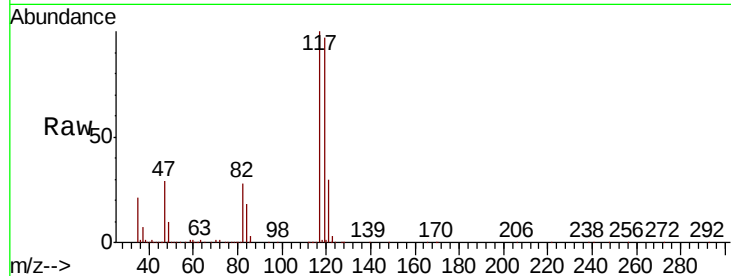
Tot Ion:117 Resp: 2480996

Ion Ratio Lower Upper

117 100

119 97.1 78.2 117.2

121 30.2 24.5 36.7

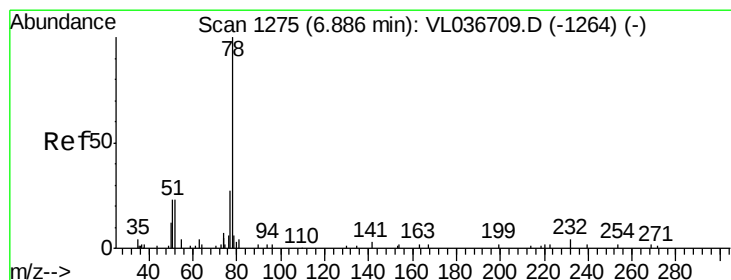
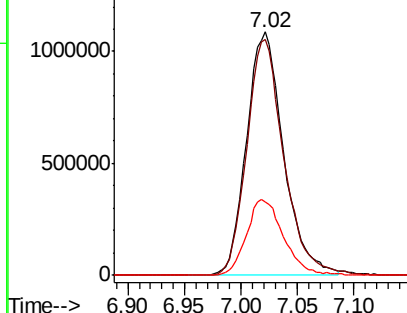
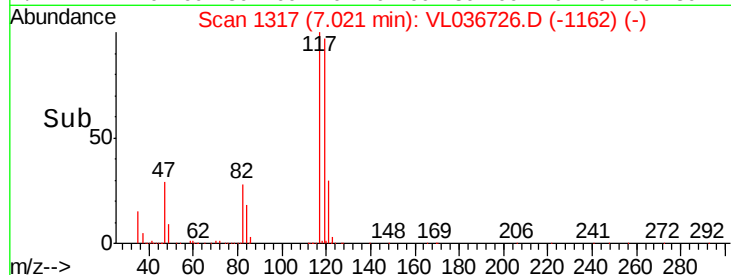


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.515 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

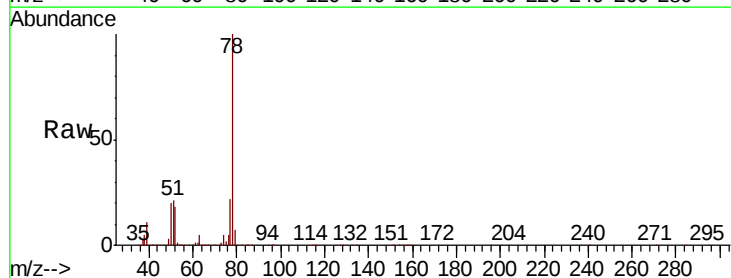
Tgt Ion: 78 Resp: 3105474

Ion Ratio Lower Upper

78 100

77 22.3 18.0 27.0

50 20.3 16.5 24.7

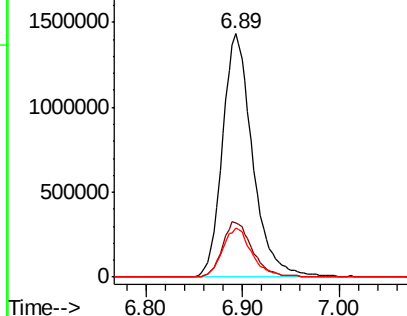
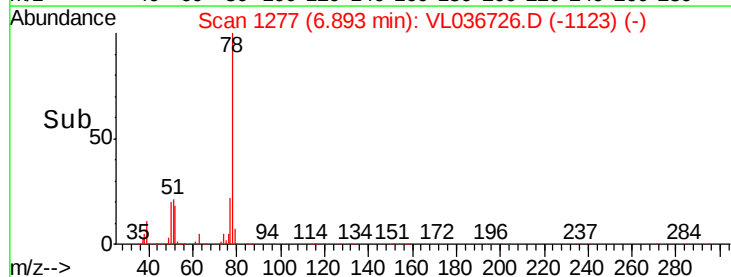


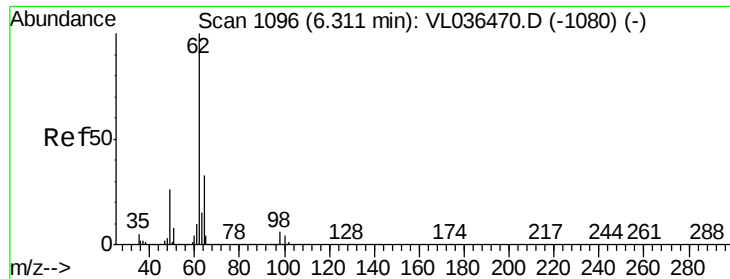
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.354 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

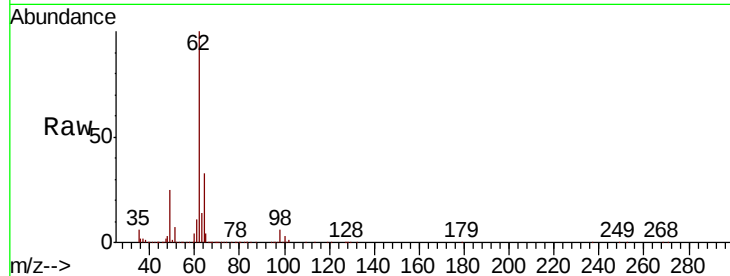
VSTDCCC010

Tot Ion: 62 Resp: 1796923

Ion Ratio Lower Upper

62 100

98 6.0 4.9 7.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.31

800000

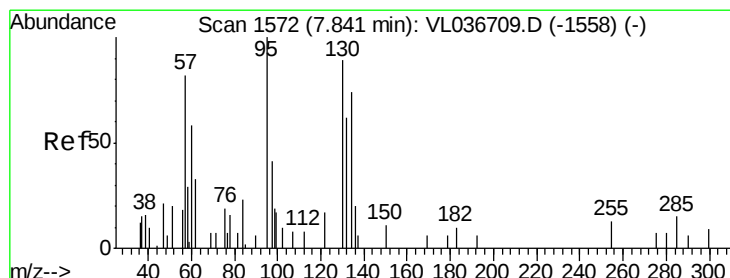
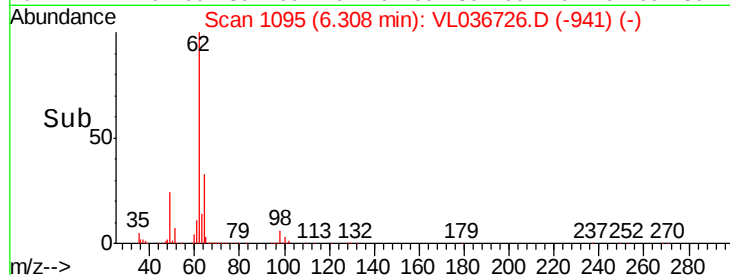
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 9.003 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Tgt Ion:130 Resp: 1143570

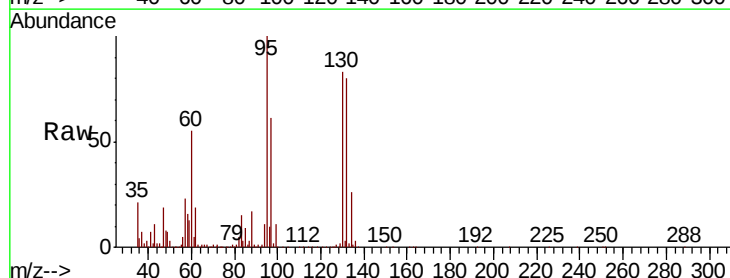
Ion Ratio Lower Upper

130 100

95 120.3 95.7 143.5

132 96.5 76.2 114.4

97 73.9 61.8 92.6



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

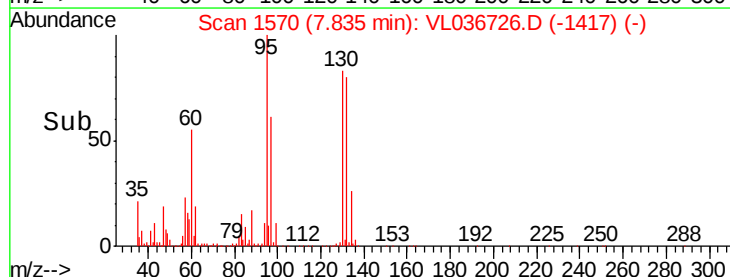
600000

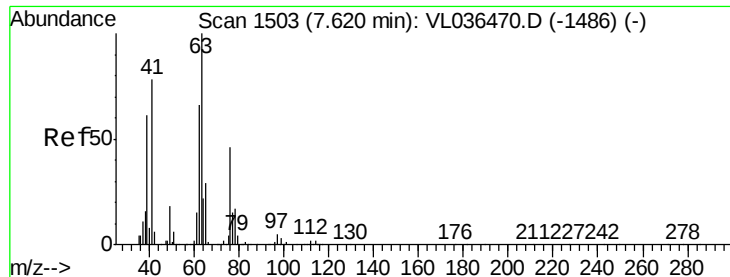
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 9.199 ppbv

RT: 7.62 min Scan# 1502

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

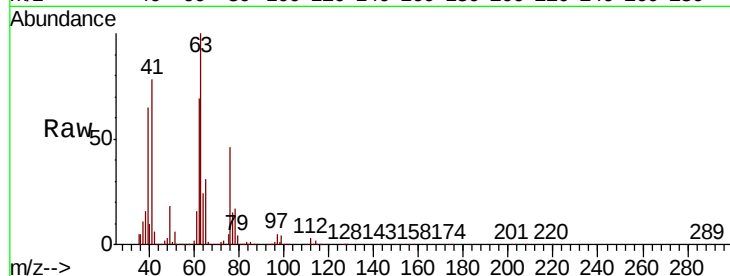
Tot Ion: 63 Resp: 1217820

Ion Ratio Lower Upper

63 100

41 77.6 62.4 93.6

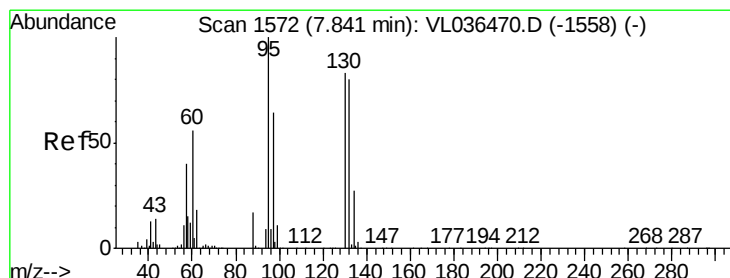
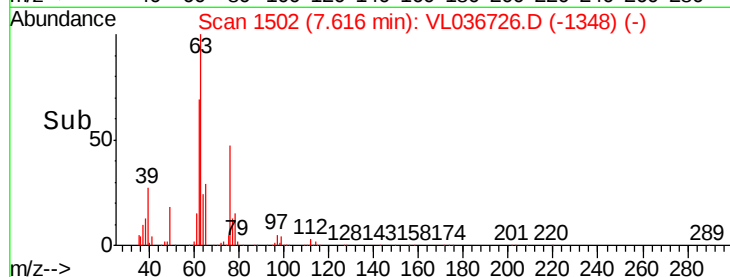
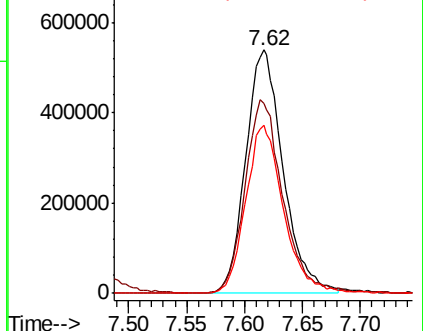
62 69.0 52.8 79.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 4.407 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Tgt Ion: 88 Resp: 135779

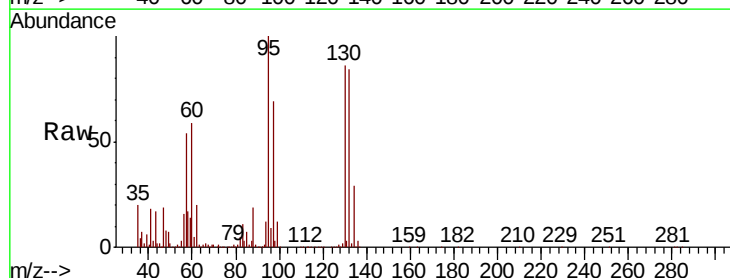
Ion Ratio Lower Upper

88 100

58 0.0 134.1 201.1#

43 0.0 346.6 520.0#

57 0.0 1481.8 2222.8#

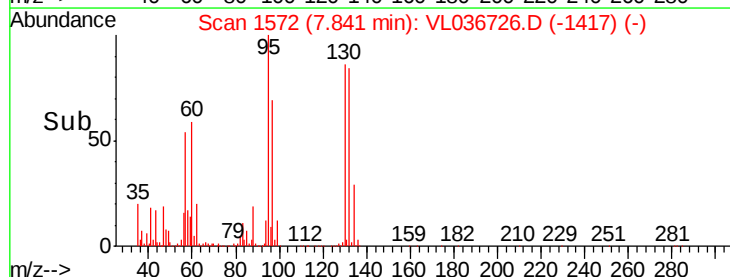
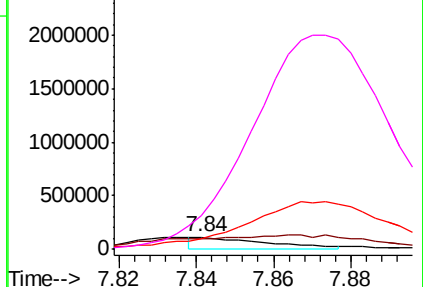


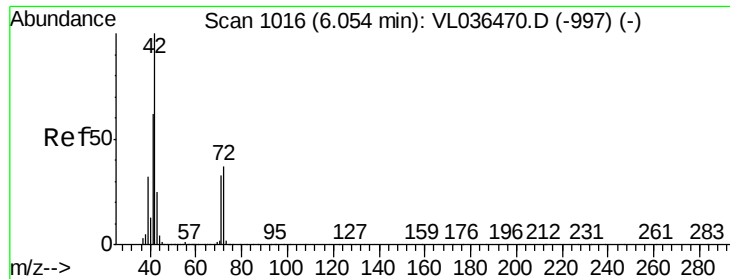
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

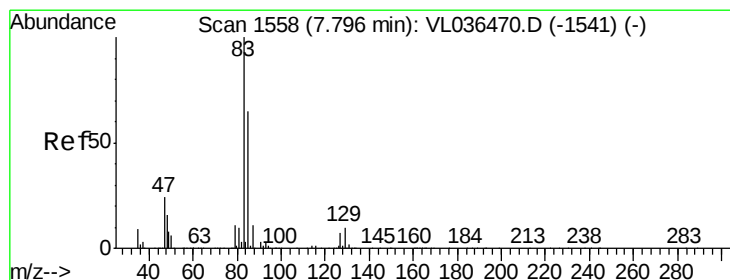
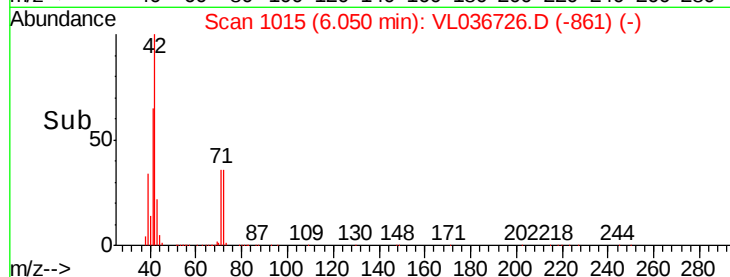
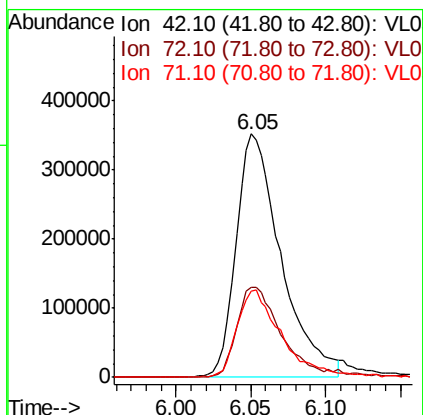
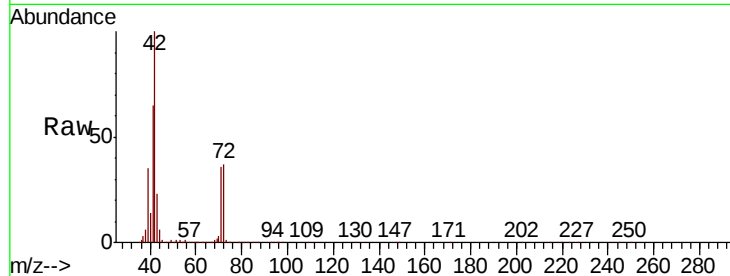




#41  
Tetrahydrofuran  
Concen: 9.199 ppbv  
RT: 6.05 min Scan# 1015  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

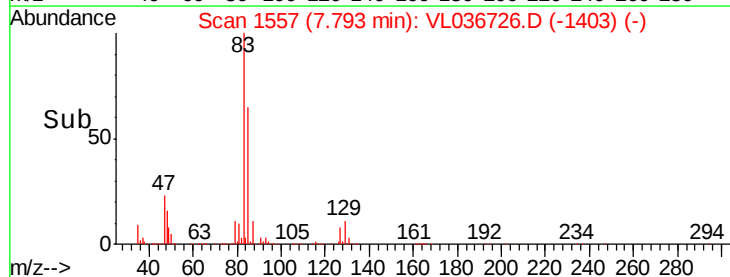
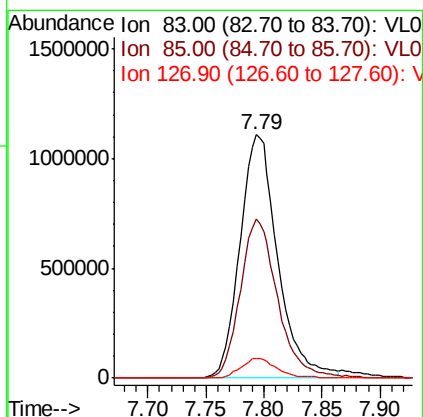
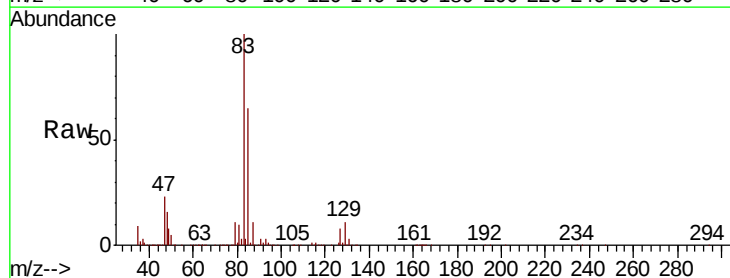
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

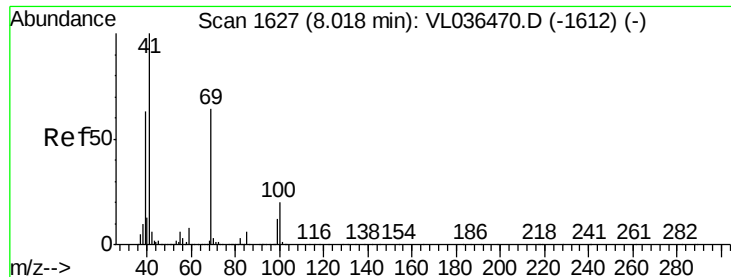
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 38.6  | 27.6  | 41.4  |
| 71      | 36.5  | 27.0  | 40.4  |



#42  
Bromodichloromethane  
Concen: 9.610 ppbv  
RT: 7.79 min Scan# 1557  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.3  | 51.8  | 77.6  |
| 127     | 7.9   | 5.8   | 8.8   |

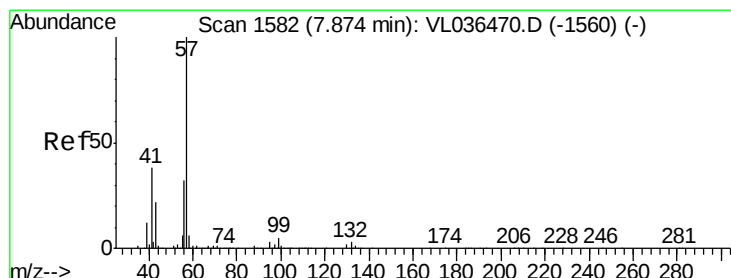
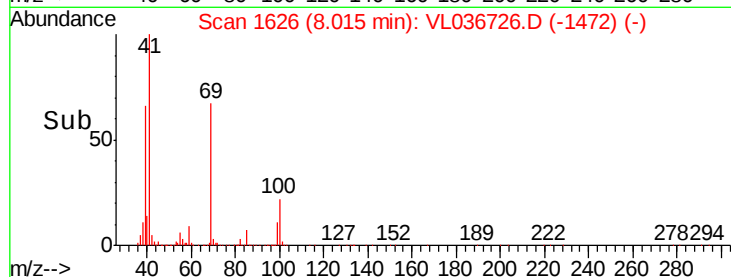
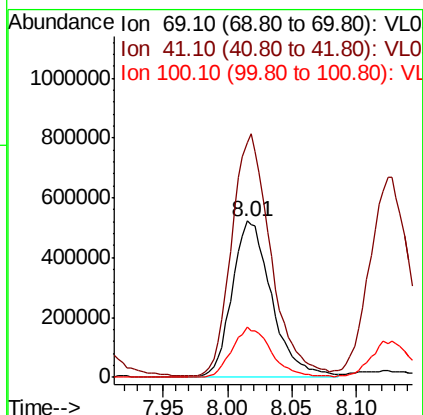
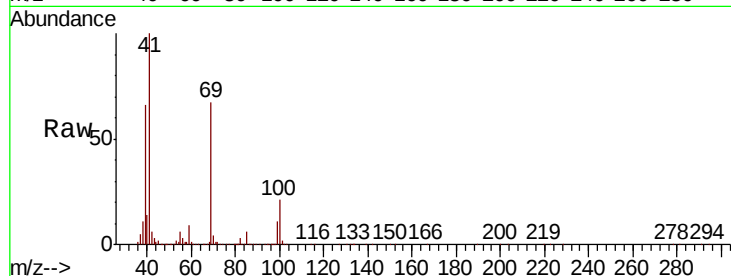




#43  
Methvl Methacrylate  
Concen: 10.158 ppbv  
RT: 8.01 min Scan# 1626  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

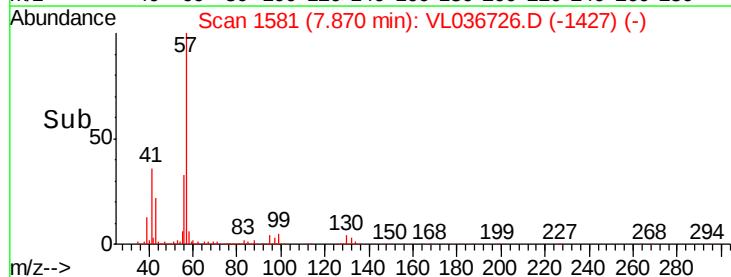
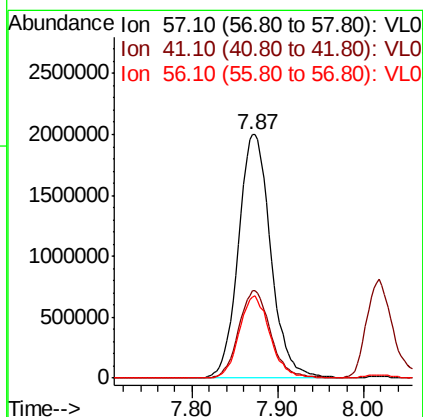
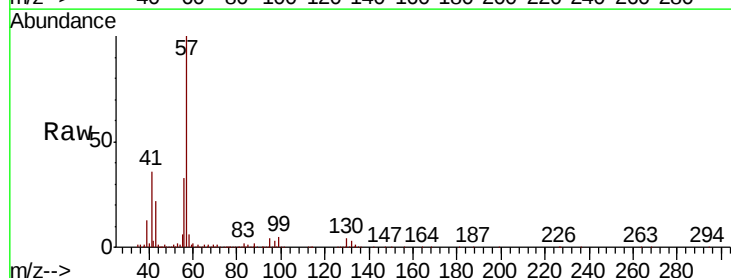
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

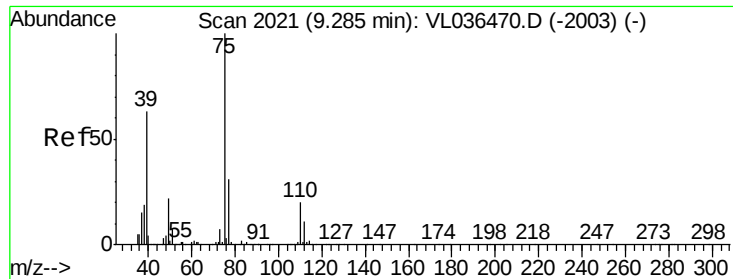
Tot Ion: 69 Resp: 1113268  
Ion Ratio Lower Upper  
69 100  
41 155.2 126.8 190.2  
100 32.1 24.9 37.3



#44  
2,2,4-Trimethylpentane  
Concen: 9.109 ppbv  
RT: 7.87 min Scan# 1581  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion: 57 Resp: 5232590  
Ion Ratio Lower Upper  
57 100  
41 35.2 28.8 43.2  
56 32.3 26.1 39.1

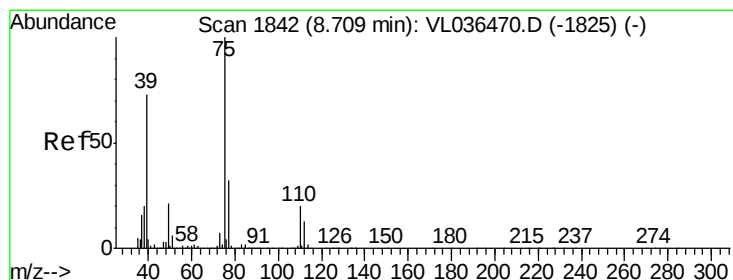
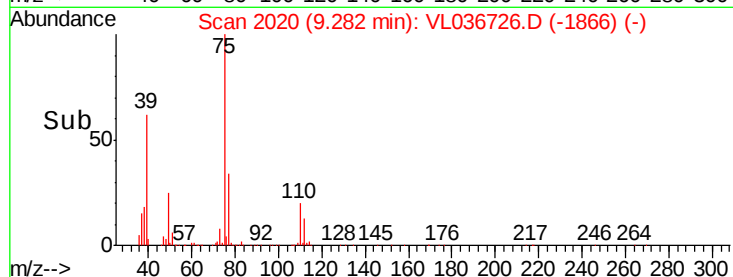
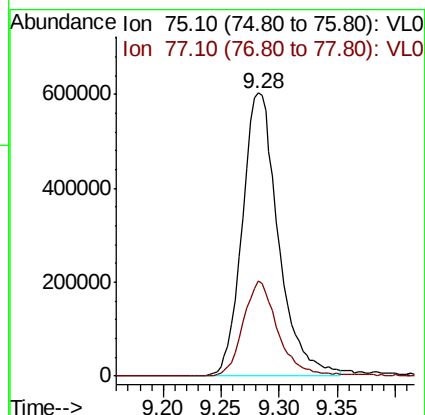
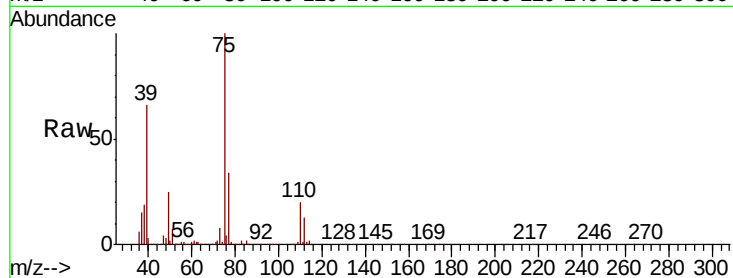




#45  
t-1,3-Dichloropropene  
Concen: 10.428 ppbv  
RT: 9.28 min Scan# 2020  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

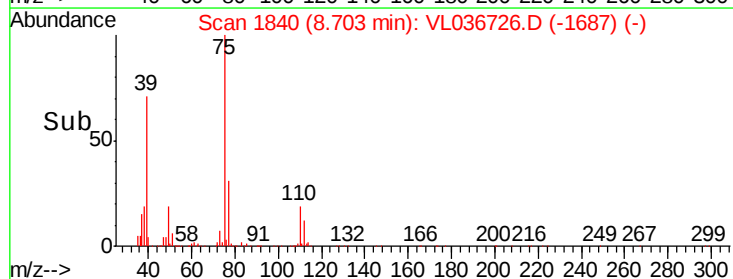
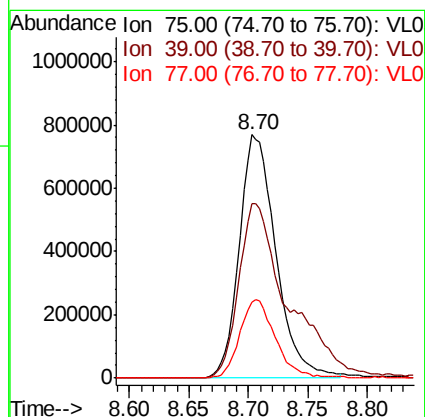
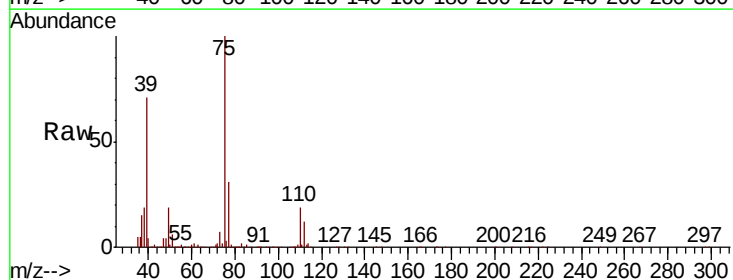
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

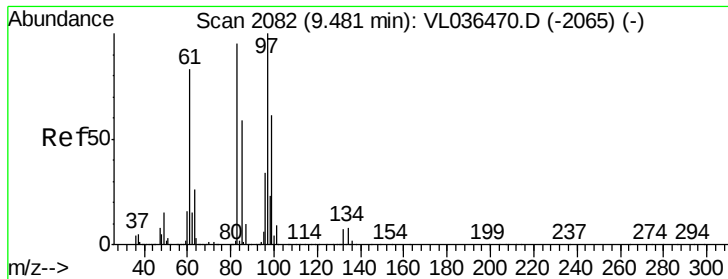
Tot Ion: 75 Resp: 1304952  
Ion Ratio Lower Upper  
75 100  
77 33.7 25.1 37.7



#46  
cis-1,3-Dichloropropene  
Concen: 10.267 ppbv  
RT: 8.70 min Scan# 1840  
Delta R.T. -0.01 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion: 75 Resp: 1642421  
Ion Ratio Lower Upper  
75 100  
39 71.3 58.2 87.2  
77 31.0 25.2 37.8



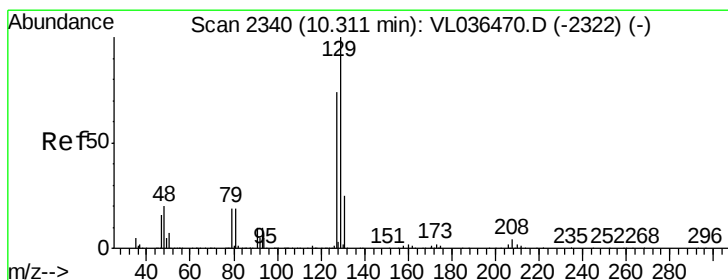
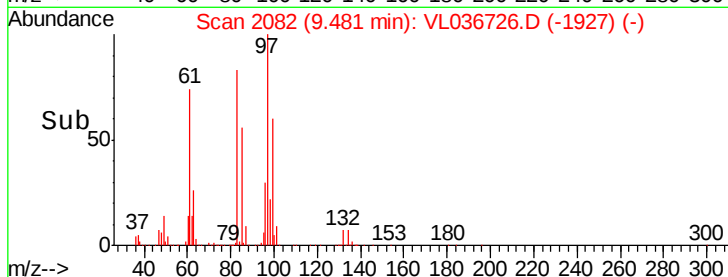
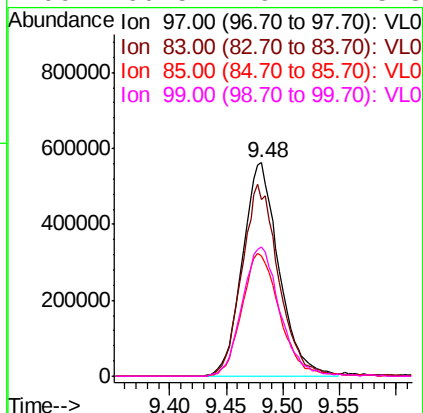
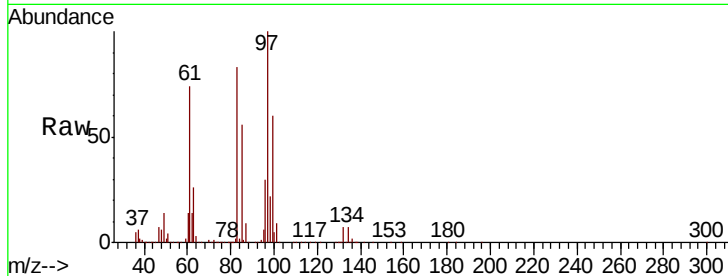


#47  
 1,1,2-Trichloroethane  
 Concen: 9.410 ppbv  
 RT: 9.48 min Scan# 2082  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 97 Resp: 1261910

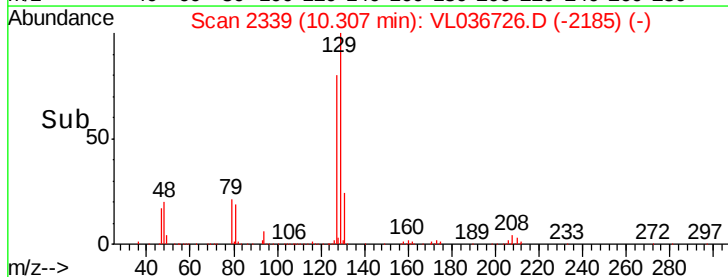
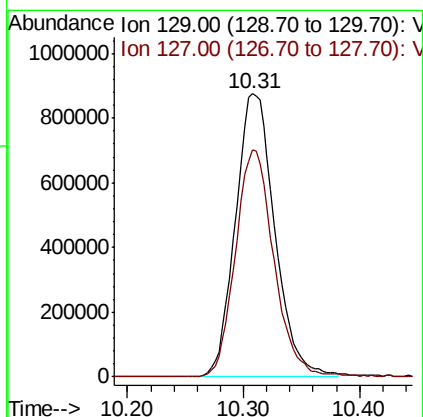
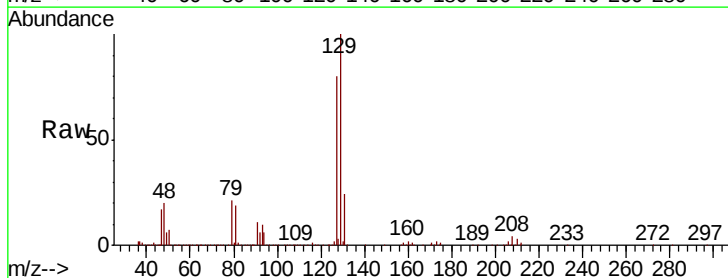
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 82.9  | 75.8  | 113.8 |
| 85  | 56.4  | 47.1  | 70.7  |
| 99  | 60.5  | 49.2  | 73.8  |

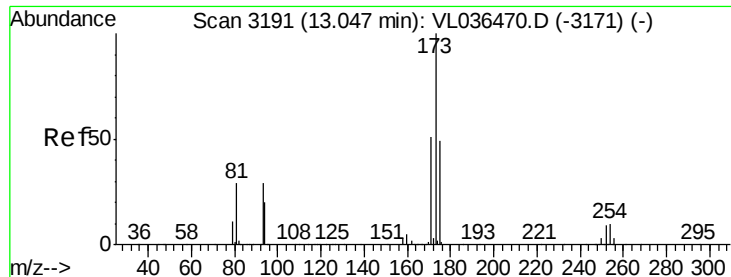


#48  
 Dibromochloromethane  
 Concen: 10.105 ppbv  
 RT: 10.31 min Scan# 2339  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Tgt Ion: 129 Resp: 2065588

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.6  | 39.6  | 118.8 |





#49

Bromoform

Concen: 10.309 ppbv

RT: 13.05 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

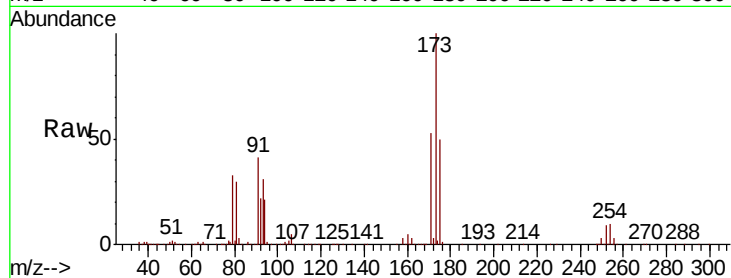
MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1697985

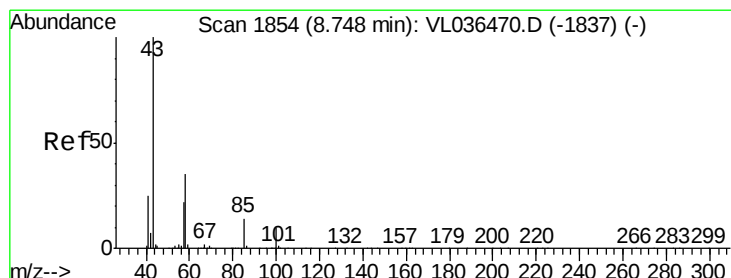
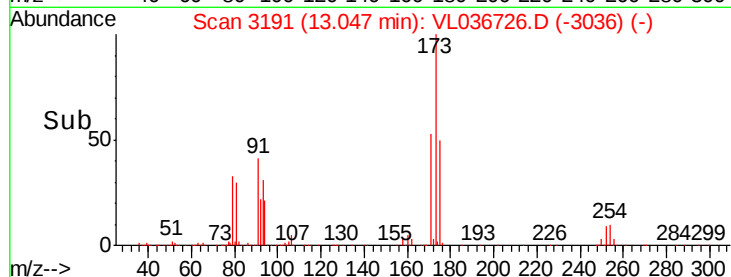
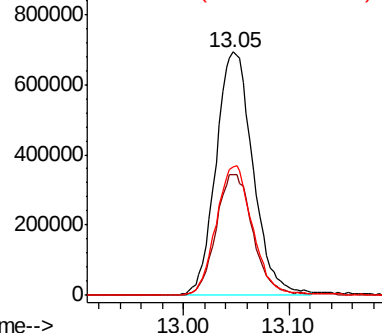
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 50.1  | 39.6  | 59.4  |
| 171 | 53.3  | 41.4  | 62.0  |



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: 9.758 ppbv

RT: 8.74 min Scan# 1853

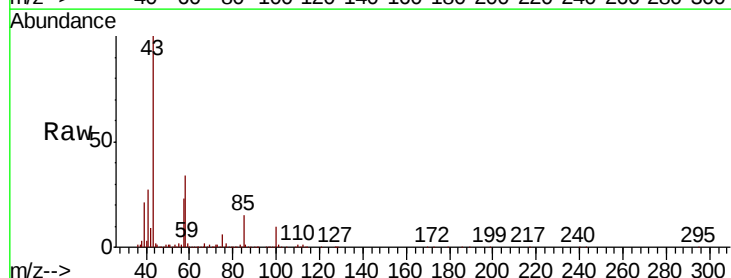
Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

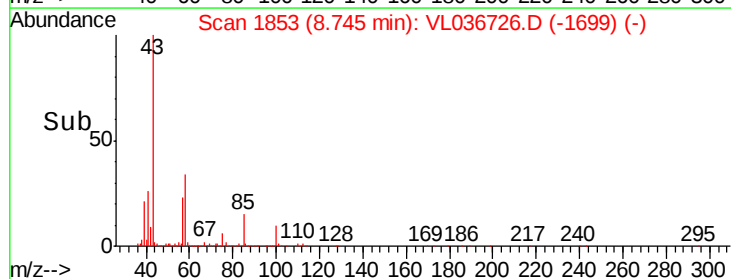
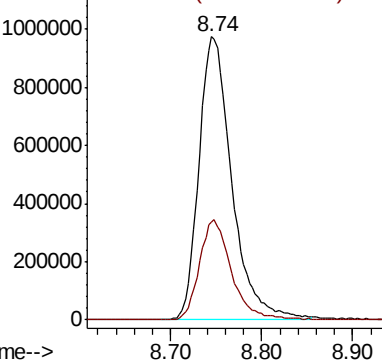
Tgt Ion: 43 Resp: 2439062

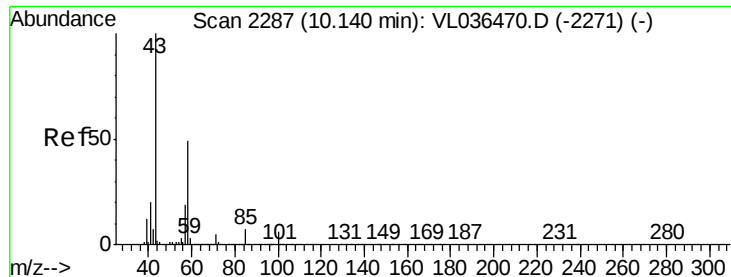
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 34.8  | 28.2  | 42.2  |



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

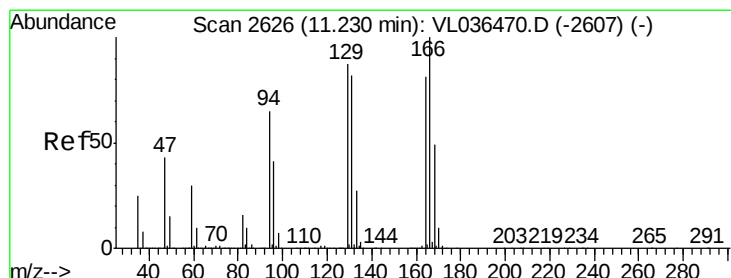
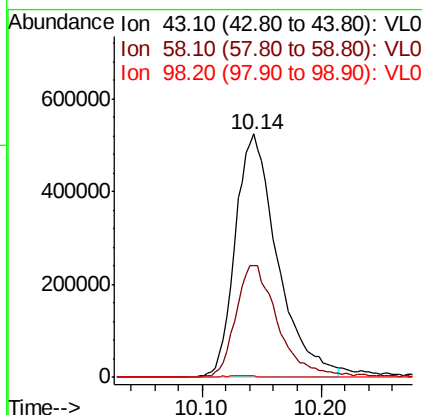
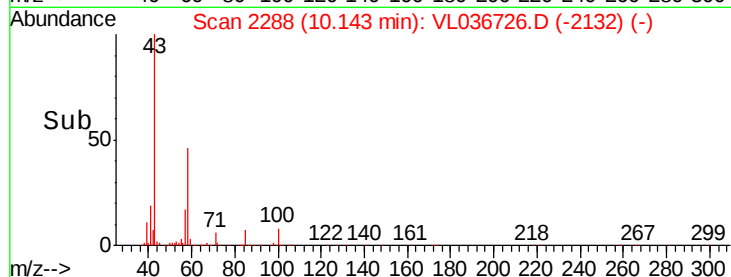
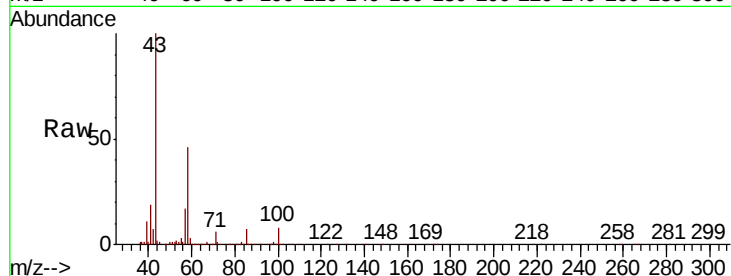




#51  
2-Hexanone  
Concen: 10.214 ppbv  
RT: 10.14 min Scan# 2287  
Delta R.T. 0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

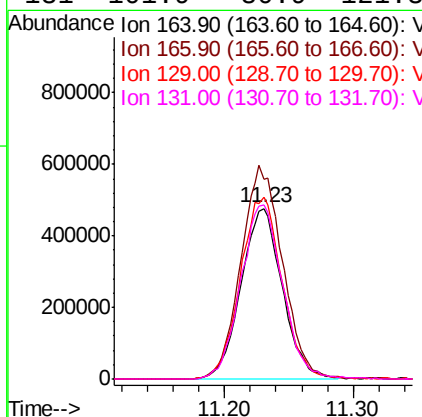
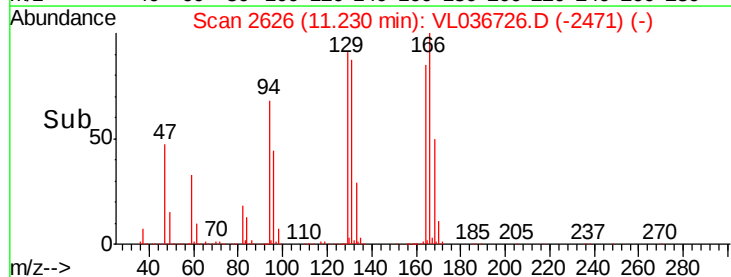
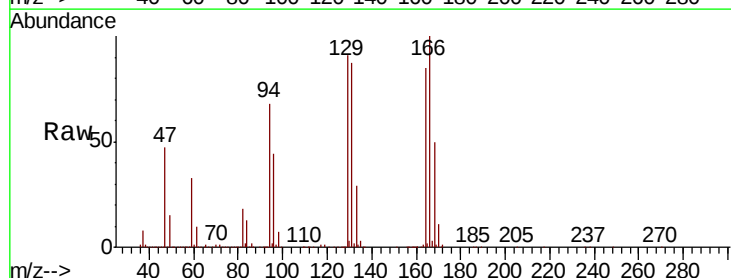
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

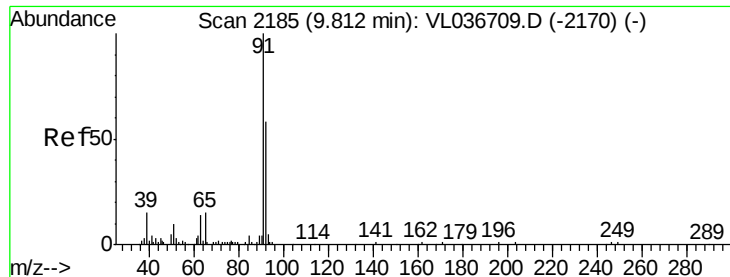
Tot Ion: 43 Resp: 1288290  
Ion Ratio Lower Upper  
43 100  
58 47.1 37.7 56.5  
98 0.9 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 8.805 ppbv  
RT: 11.23 min Scan# 2626  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion:164 Resp: 1058230  
Ion Ratio Lower Upper  
164 100  
166 117.1 98.3 147.5  
129 106.7 85.8 128.8  
131 101.9 80.9 121.3





#53

Toluene

Concen: 10.027 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

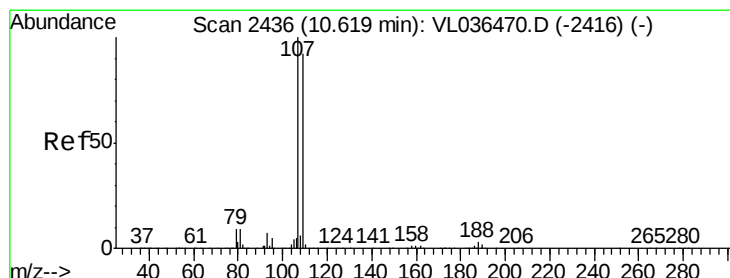
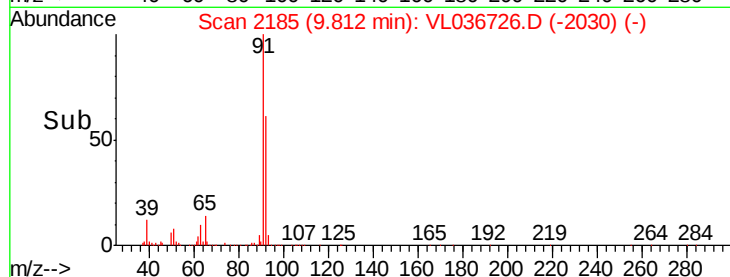
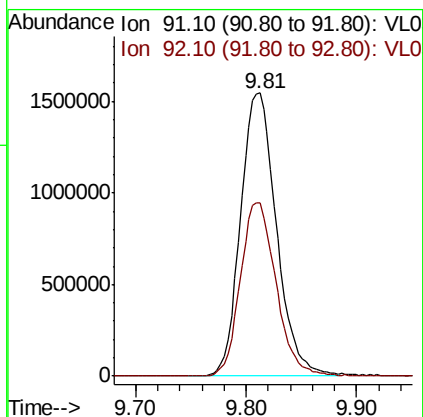
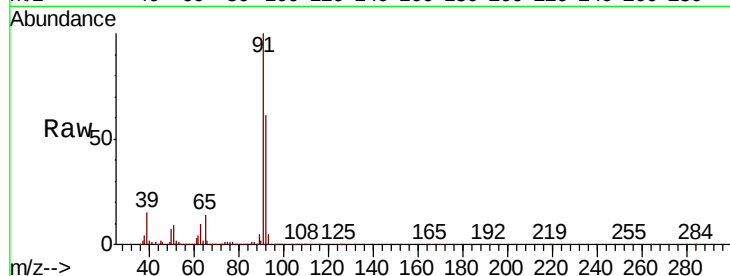
VSTDCCC010

Tot Ion: 91 Resp: 3485194

Ion Ratio Lower Upper

91 100

92 61.4 48.8 73.2



#54

1,2-Dibromoethane

Concen: 9.613 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL036726.D

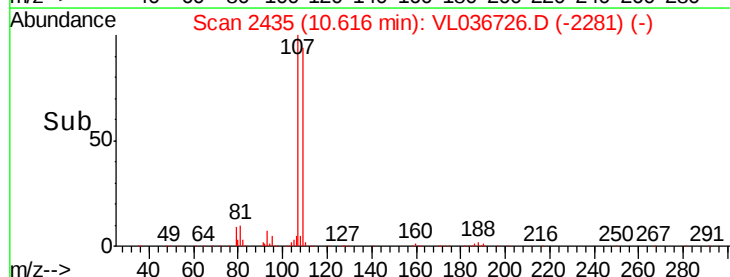
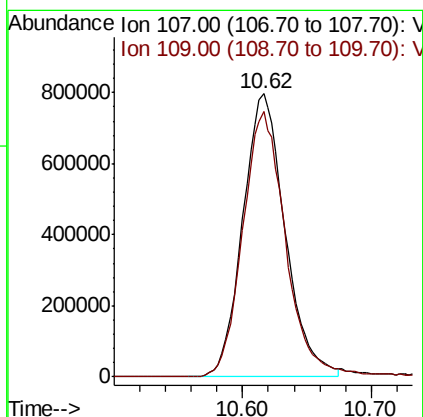
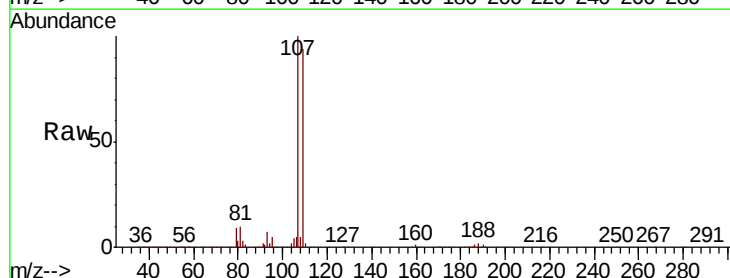
Acq: 7 Apr 2021 13:20

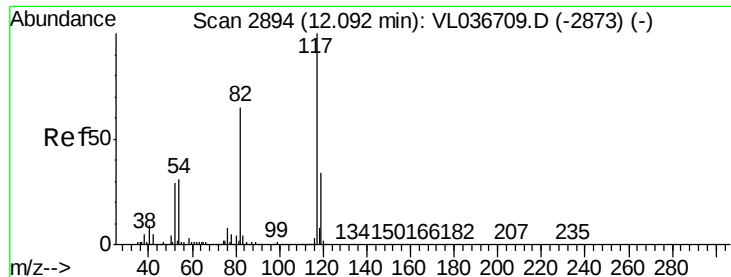
Tgt Ion: 107 Resp: 1820388

Ion Ratio Lower Upper

107 100

109 93.7 73.9 110.9

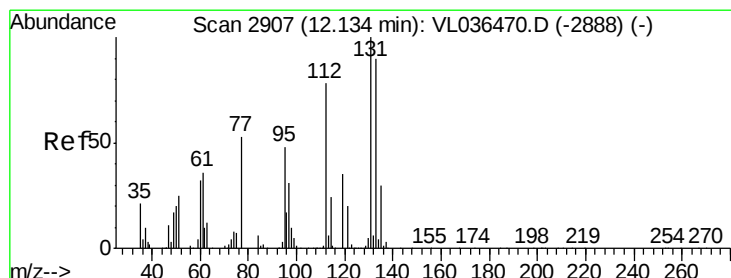
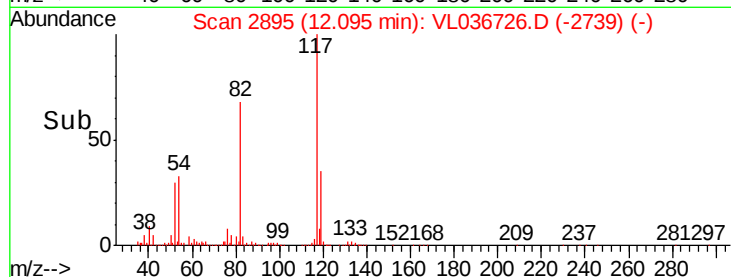
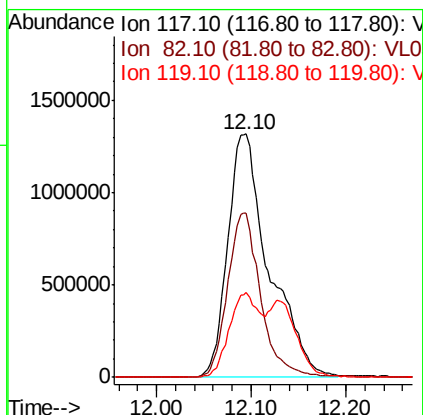
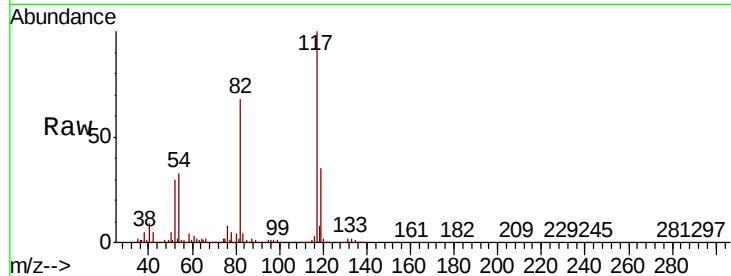




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.10 min Scan# 2895  
Delta R.T. 0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

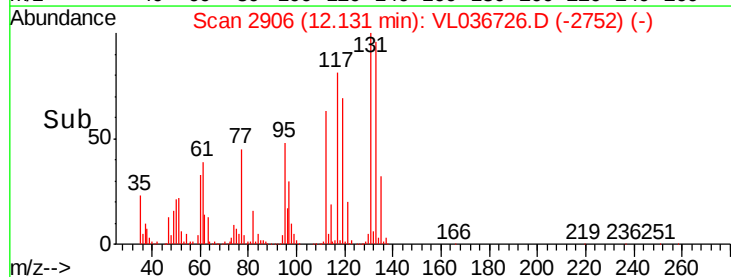
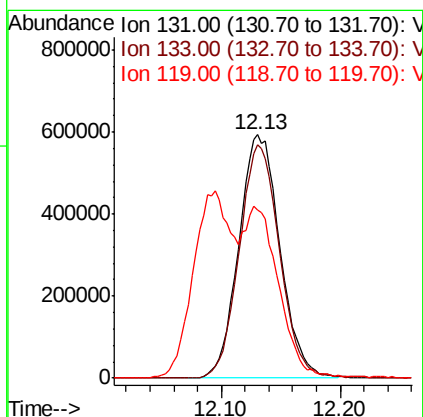
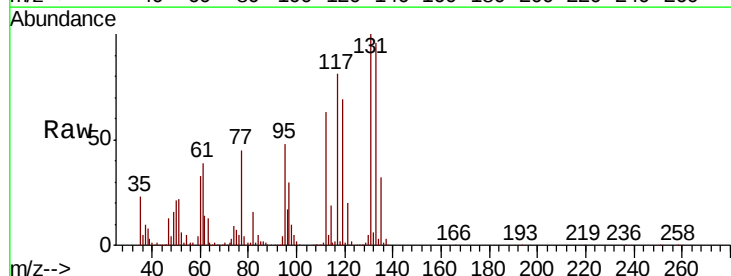
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

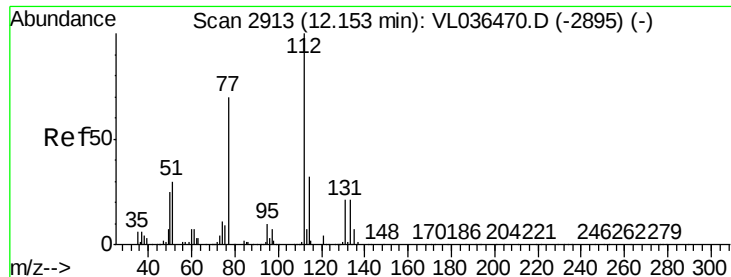
Tot Ion:117 Resp: 3999831  
Ion Ratio Lower Upper  
117 100  
82 54.7 57.4 86.0#  
119 24.7 47.4 71.0#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.836 ppbv  
RT: 12.13 min Scan# 2906  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion:131 Resp: 1417554  
Ion Ratio Lower Upper  
131 100  
133 94.5 75.8 113.6  
119 55.8 48.7 73.1





#57

Chlorobenzene

Concen: 7.627 ppbv

RT: 12.15 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

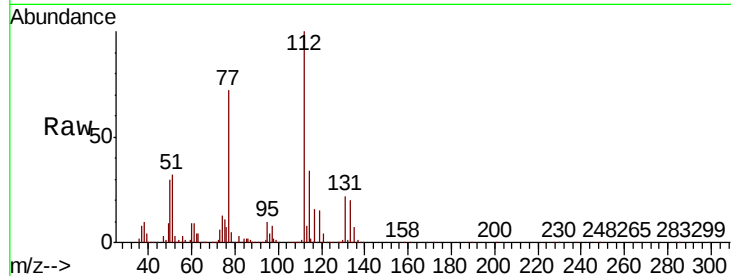
Tot Ion:112 Resp: 2595579

Ion Ratio Lower Upper

112 100

77 71.6 56.0 84.0

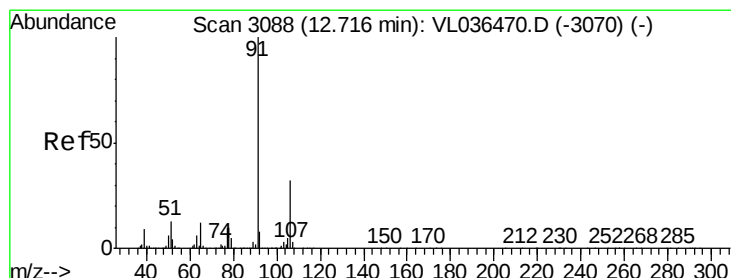
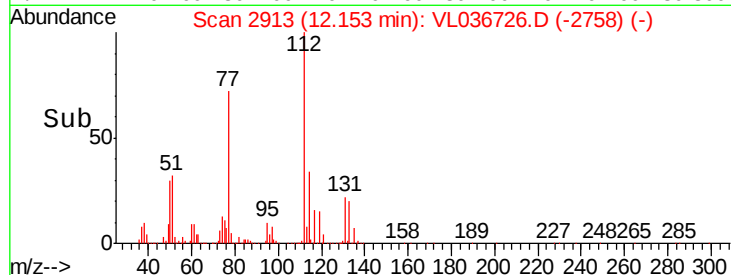
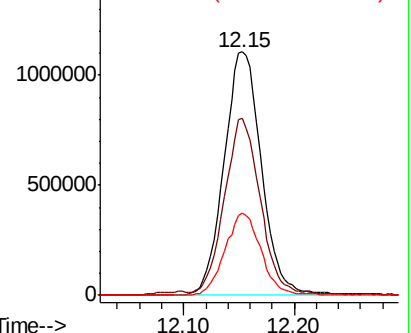
114 33.5 29.0 35.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.048 ppbv

RT: 12.72 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL036726.D

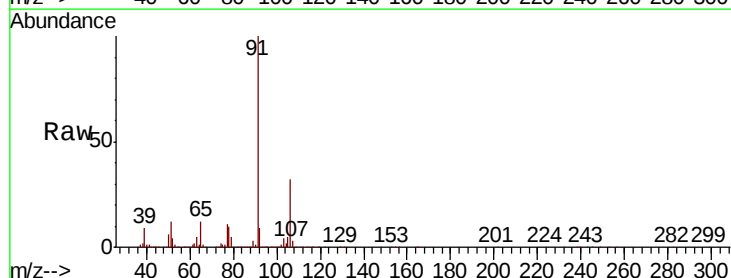
Acq: 7 Apr 2021 13:20

Tgt Ion: 91 Resp: 4683179

Ion Ratio Lower Upper

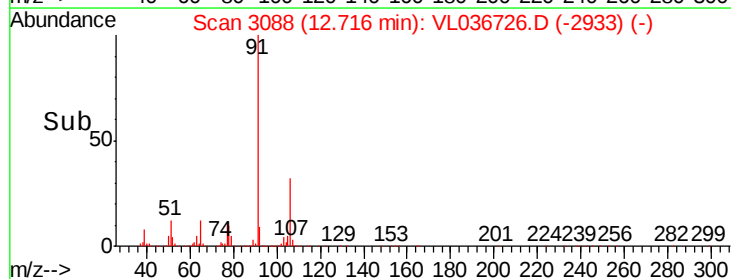
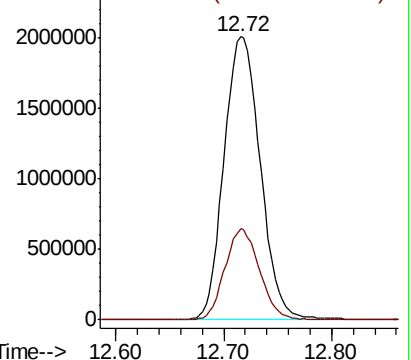
91 100

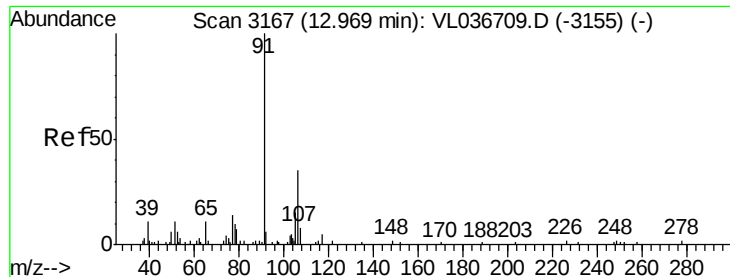
106 32.3 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.104 ppbv

RT: 13.01 min Scan# 3178

Delta R.T. 0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

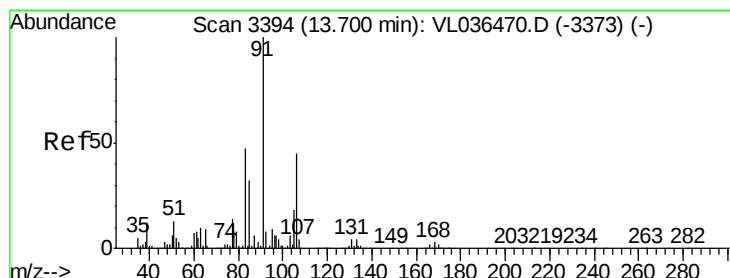
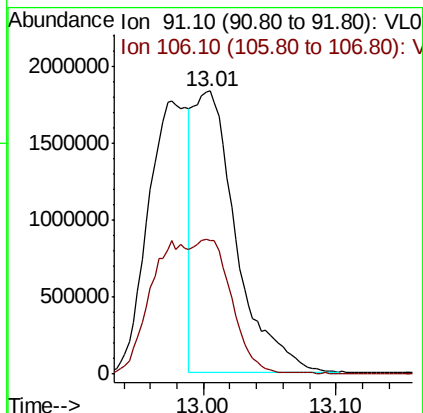
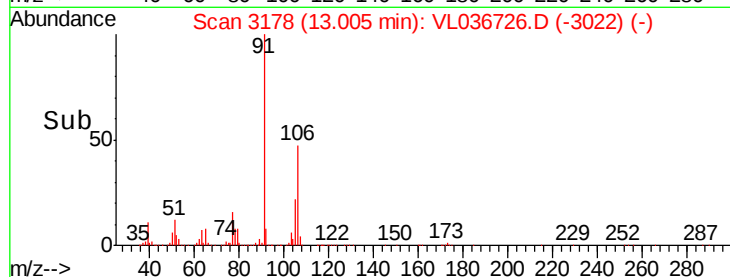
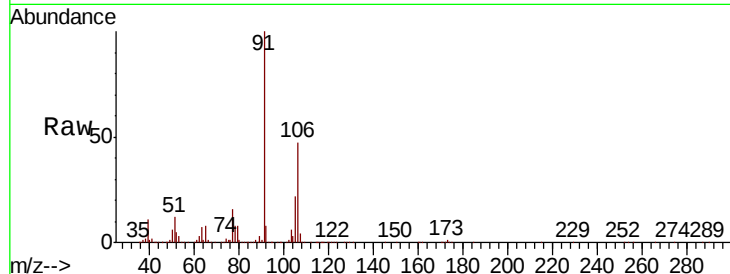
VSTDCCC010

Tot Ion: 91 Resp: 4113365

Ion Ratio Lower Upper

91 100

106 86.2 35.3 52.9#



#60

o-Xylene

Concen: 7.662 ppbv

RT: 13.70 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL036726.D

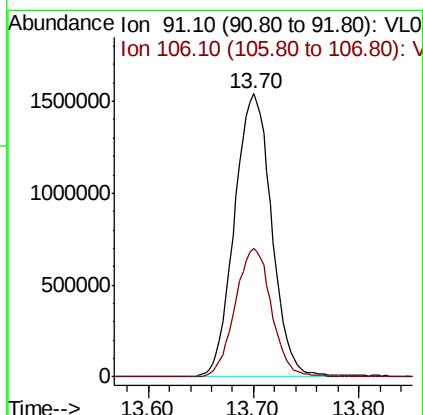
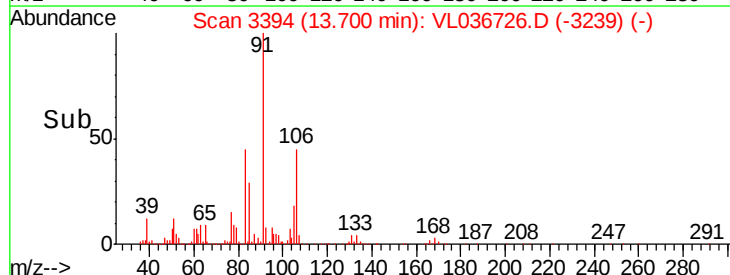
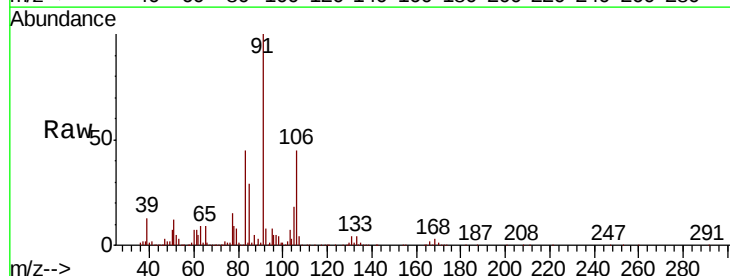
Acq: 7 Apr 2021 13:20

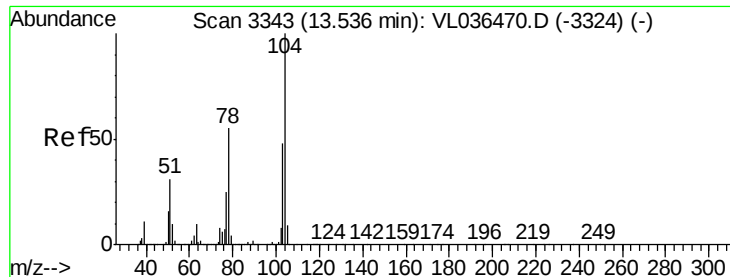
Tgt Ion: 91 Resp: 3760175

Ion Ratio Lower Upper

91 100

106 44.8 22.3 66.9

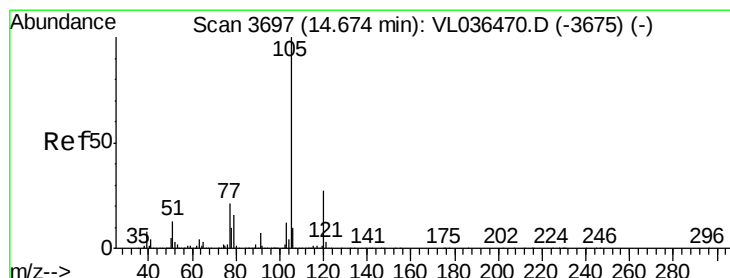
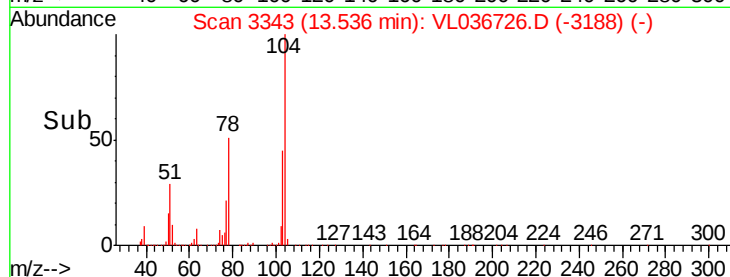
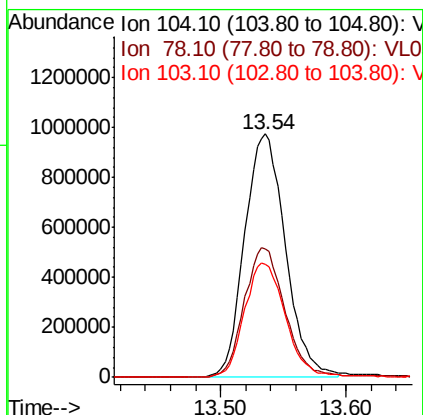
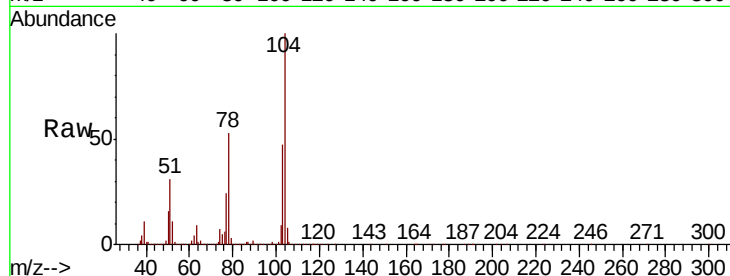




#61  
Stvrene  
Concen: 8.949 ppbv  
RT: 13.54 min Scan# 3343  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

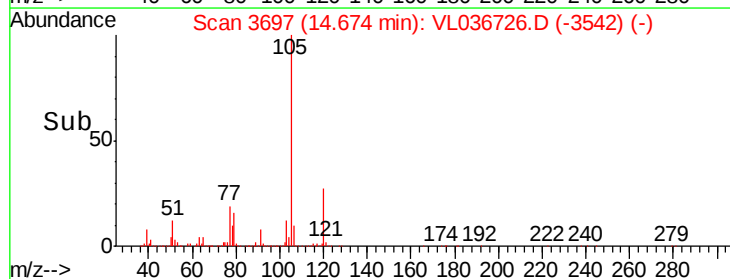
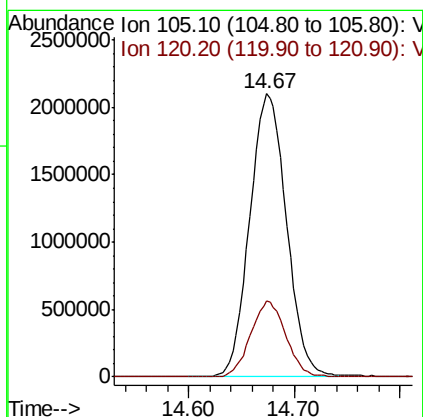
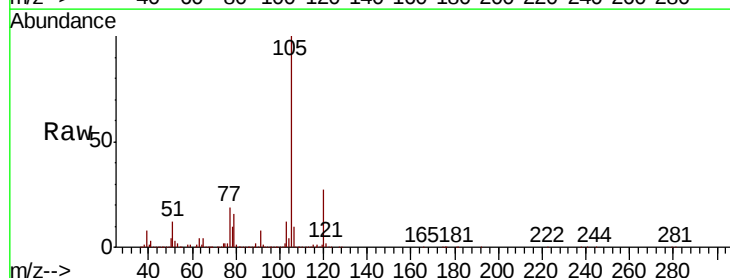
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

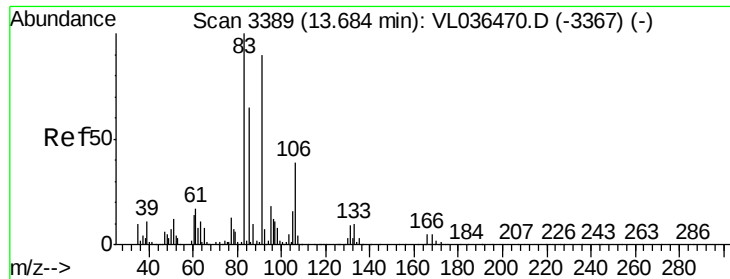
Tot Ion:104 Resp: 2209408  
Ion Ratio Lower Upper  
104 100  
78 53.5 43.8 65.8  
103 47.6 38.3 57.5



#62  
Isopropylbenzene  
Concen: 7.708 ppbv  
RT: 14.67 min Scan# 3697  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion:105 Resp: 5093879  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.6 31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 7.315 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

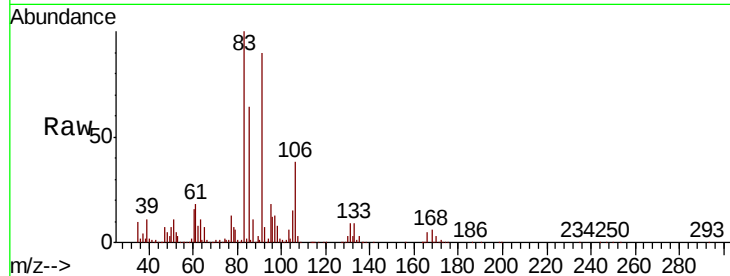
MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2738386

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 9.3   | 4.7   | 14.0  |
| 85  | 65.4  | 33.1  | 99.3  |

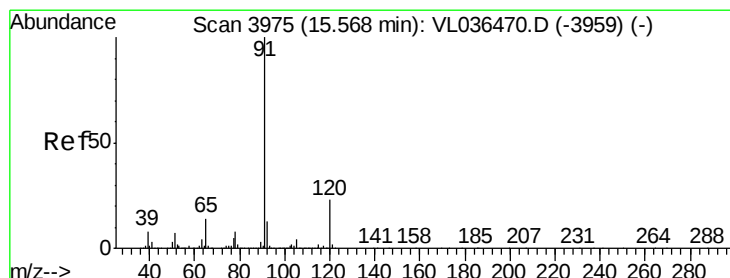
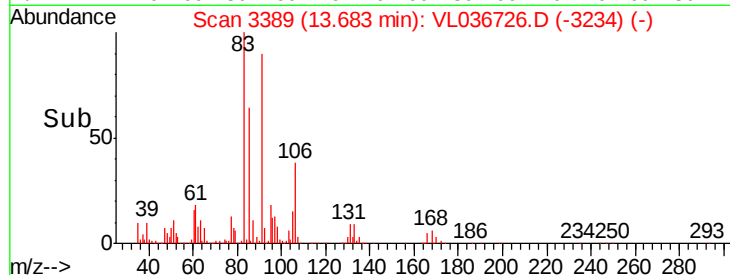
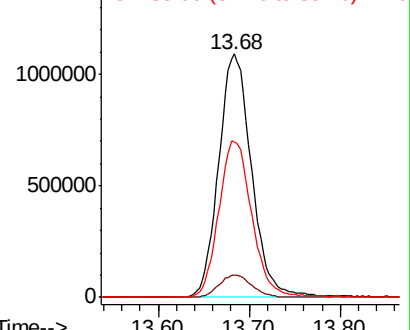


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.300 ppbv

RT: 15.57 min Scan# 3975

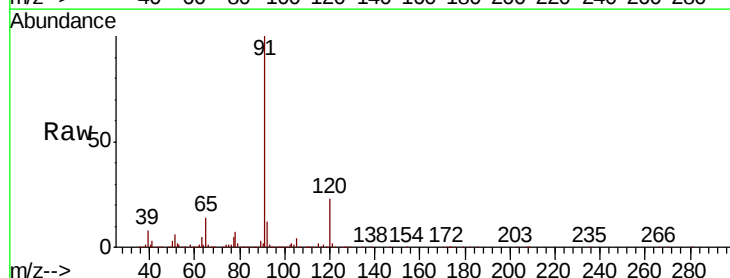
Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Tgt Ion: 120 Resp: 1341117

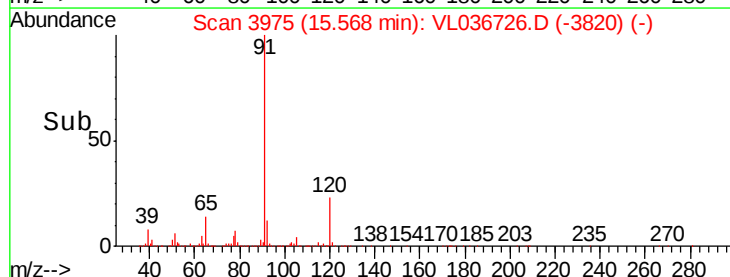
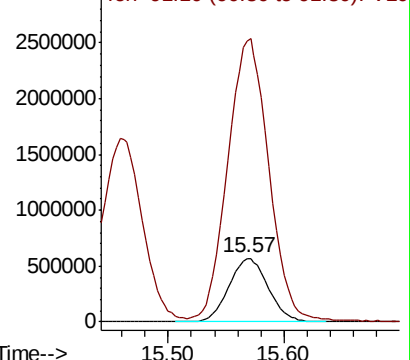
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 467.2 | 377.4 | 566.2 |

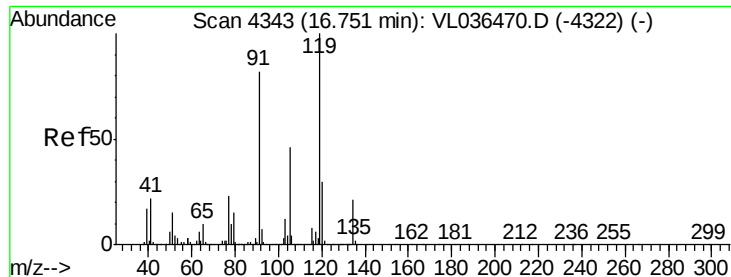


Abundance

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.716 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

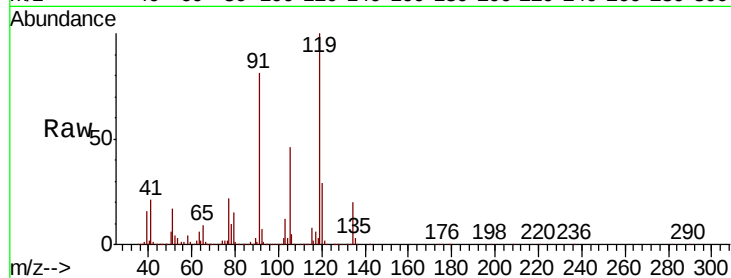
Tot Ion:119 Resp: 4422133

Ion Ratio Lower Upper

119 100

91 84.1 67.5 101.3

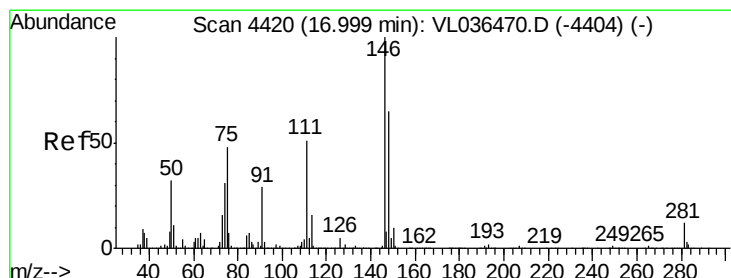
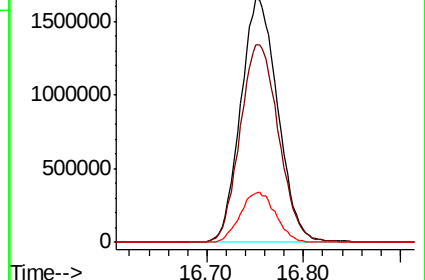
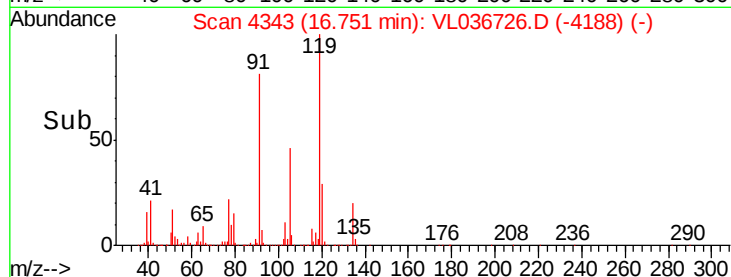
134 19.8 15.8 23.8



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 8.358 ppbv

RT: 17.00 min Scan# 4419

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

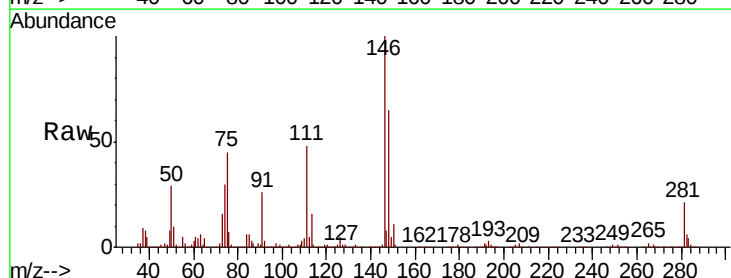
Tgt Ion: 91 Resp: 529449

Ion Ratio Lower Upper

91 100

126 17.5 13.5 20.3

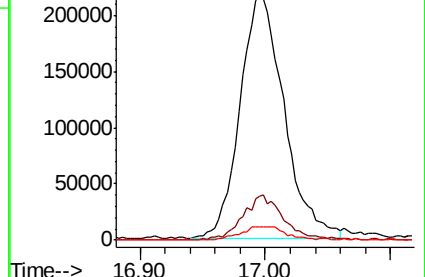
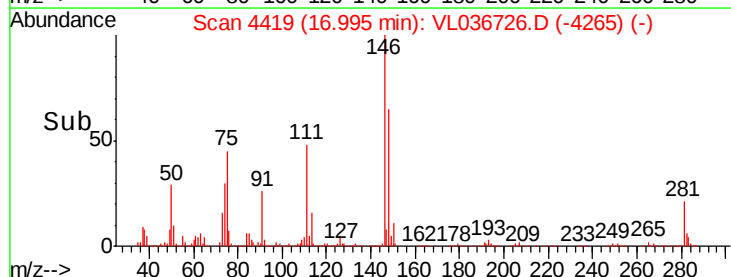
128 6.0 4.2 6.4

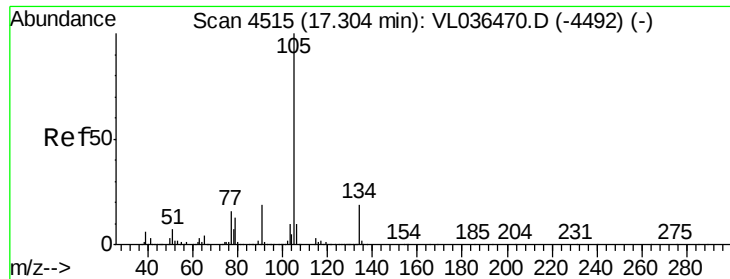


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

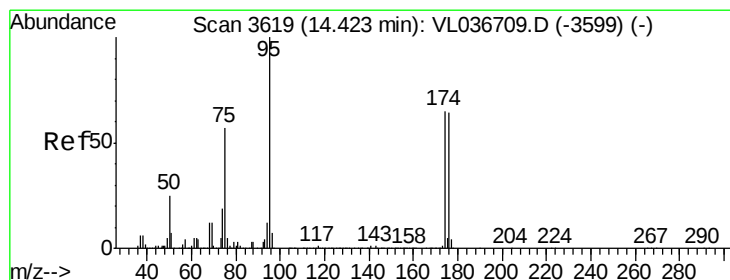
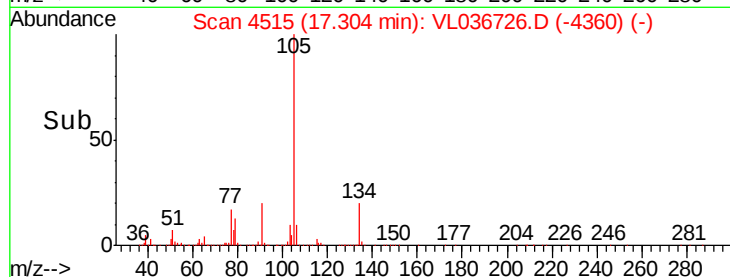
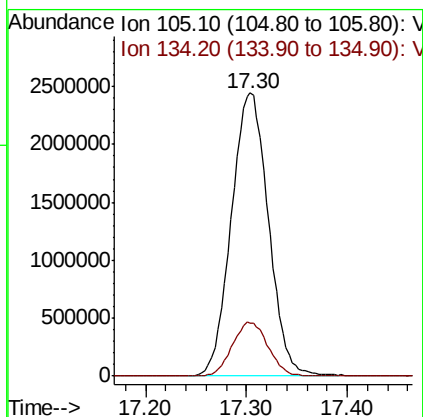
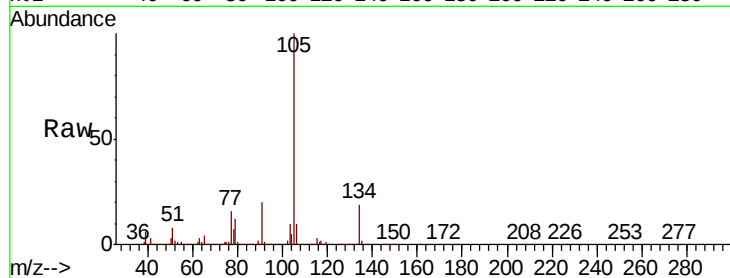




#67  
 sec-Butylbenzene  
 Concen: 7.698 ppbv  
 RT: 17.30 min Scan# 4515  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

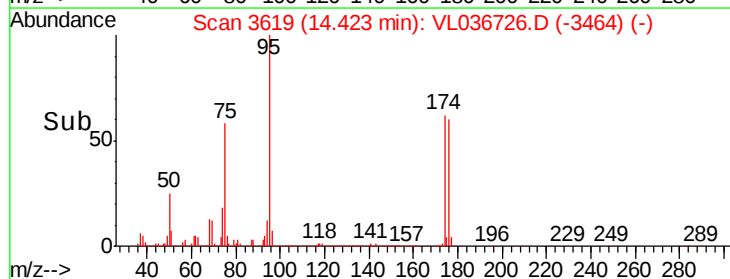
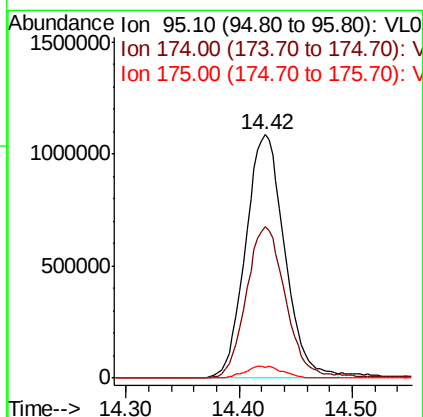
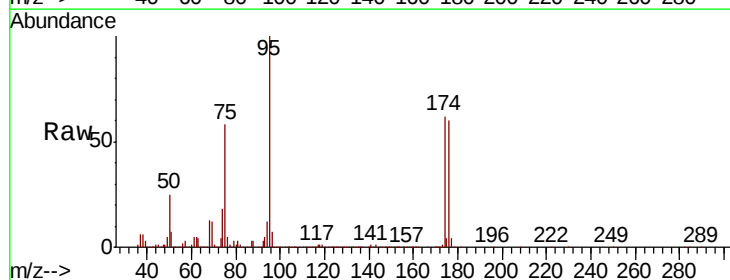
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010

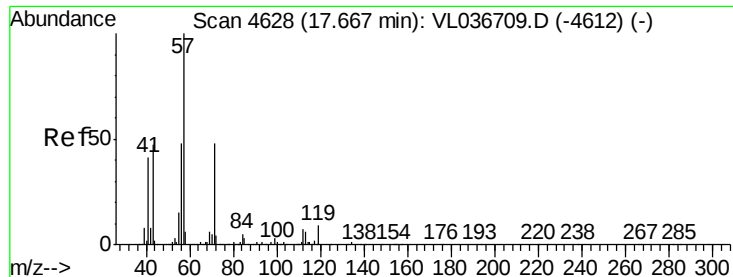
Tot Ion:105 Resp: 6227597  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 14.7 22.1



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.173 ppbv  
 RT: 14.42 min Scan# 3619  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Tgt Ion: 95 Resp: 2605462  
 Ion Ratio Lower Upper  
 95 100  
 174 63.2 51.0 76.6  
 175 5.0 3.9 5.9

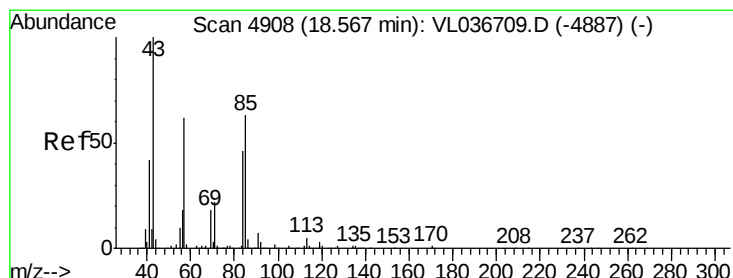
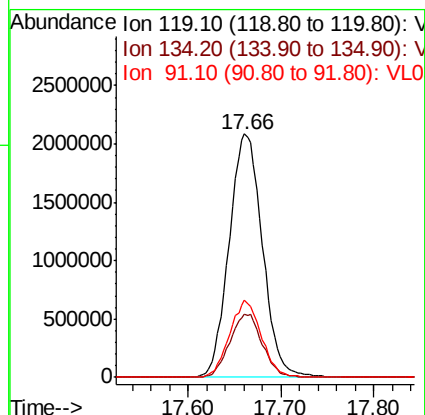
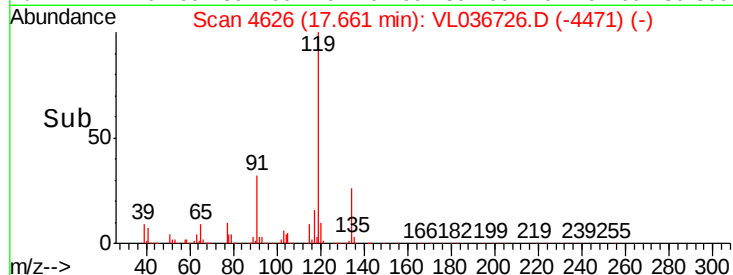
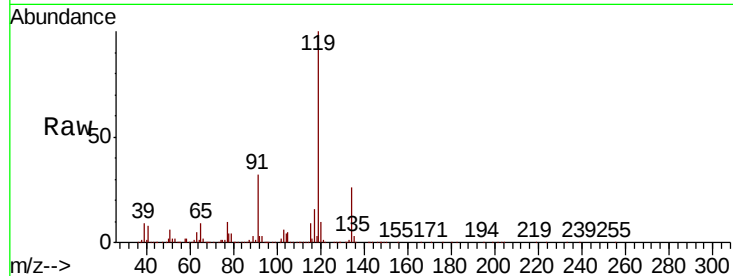




#69  
p-Isopropyltoluene  
Concen: 8.194 ppbv  
RT: 17.66 min Scan# 4626  
Delta R.T. -0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

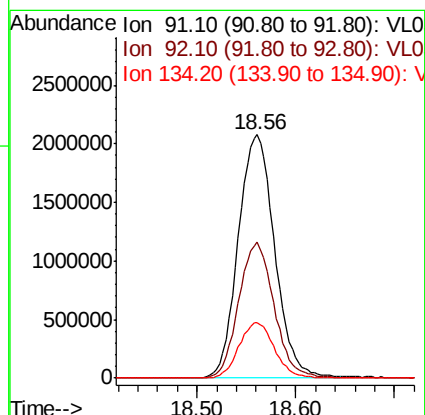
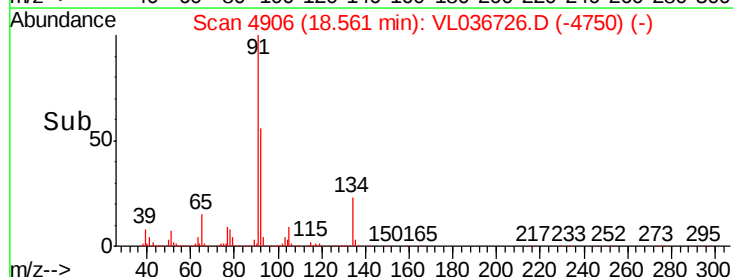
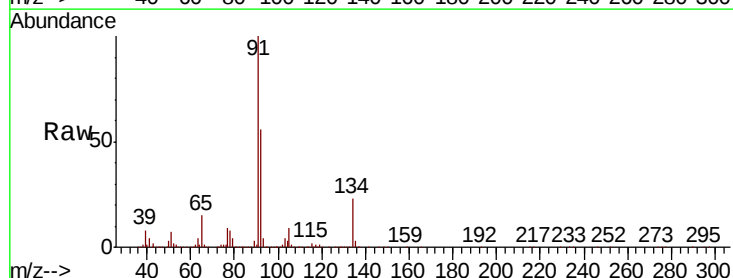
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

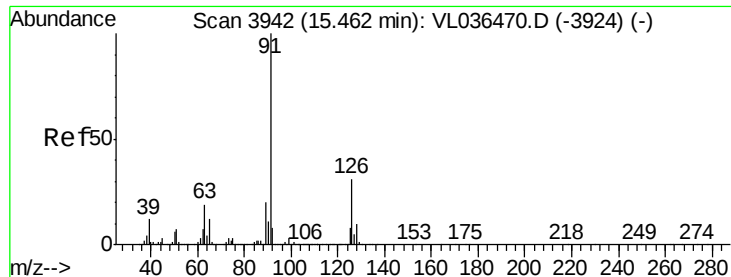
Tot Ion:119 Resp: 5176103  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.6 30.8  
91 30.2 25.0 37.6



#70  
n-Butylbenzene  
Concen: 8.122 ppbv  
RT: 18.56 min Scan# 4906  
Delta R.T. 0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion: 91 Resp: 5320007  
Ion Ratio Lower Upper  
91 100  
92 54.7 43.8 65.8  
134 22.4 18.0 27.0





#71

2-Chlorotoluene

Concen: 7.991 ppbv

RT: 15.46 min Scan# 3941

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

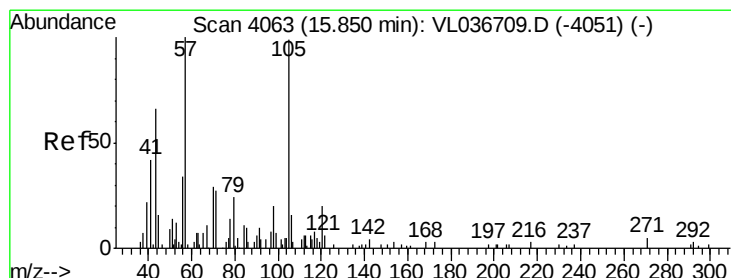
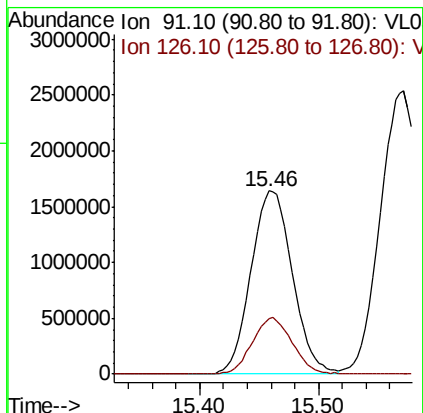
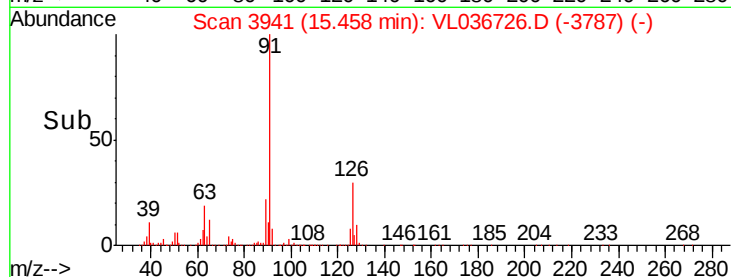
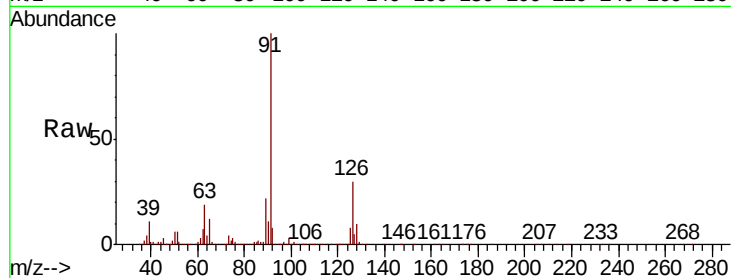
VSTDCCC010

Tot Ion: 91 Resp: 3957230

Ion Ratio Lower Upper

91 100

126 30.1 12.1 48.5



#72

4-Ethyltoluene

Concen: 8.268 ppbv

RT: 15.84 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Tgt Ion:105 Resp: 4445981

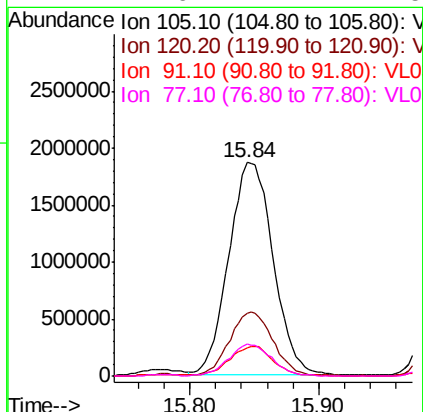
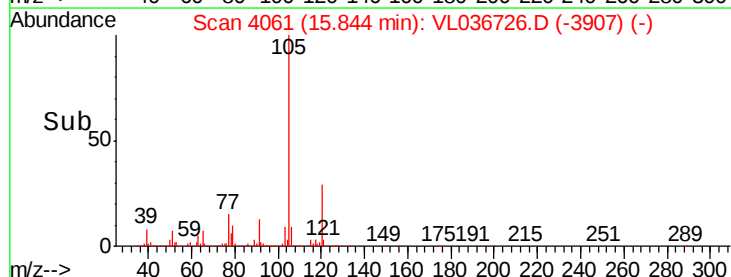
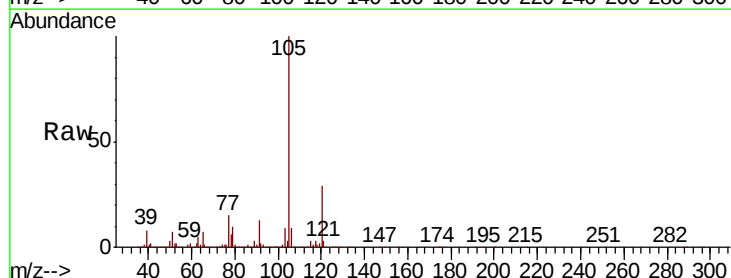
Ion Ratio Lower Upper

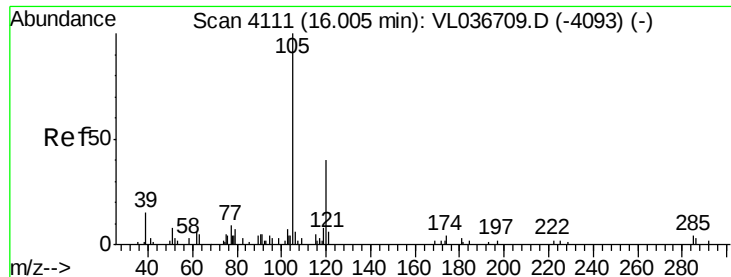
105 100

120 29.9 24.0 36.0

91 13.4 11.0 16.4

77 14.6 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 8.088 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

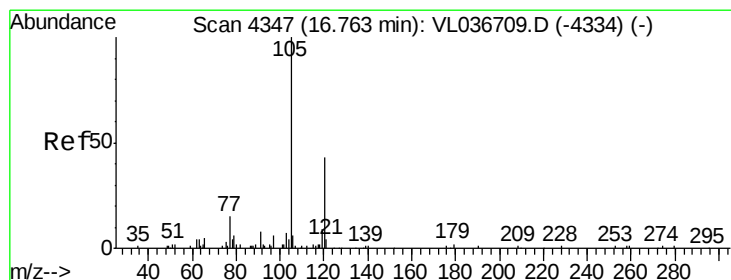
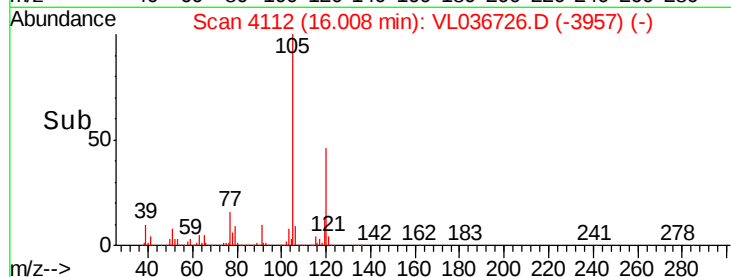
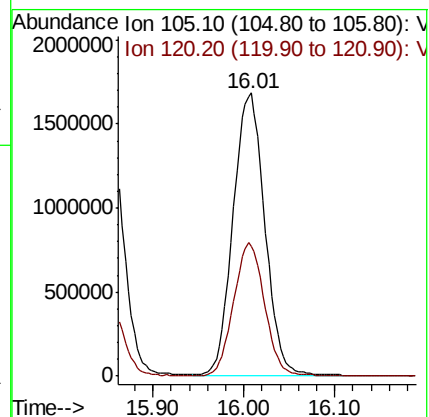
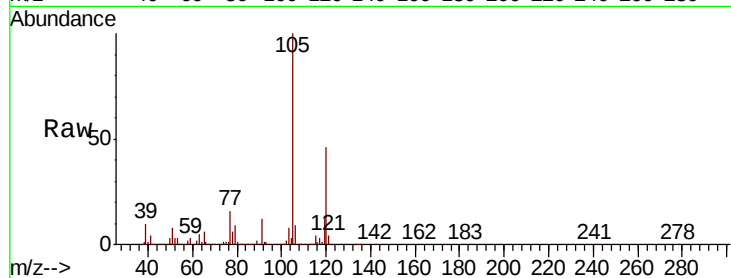
VSTDCCC010

Tot Ion:105 Resp: 4059626

Ion Ratio Lower Upper

105 100

120 46.0 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 7.759 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Tgt Ion:105 Resp: 4167343

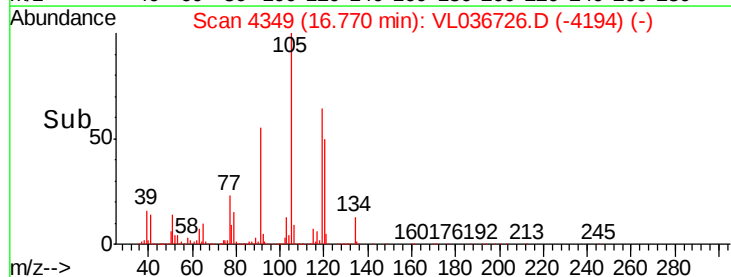
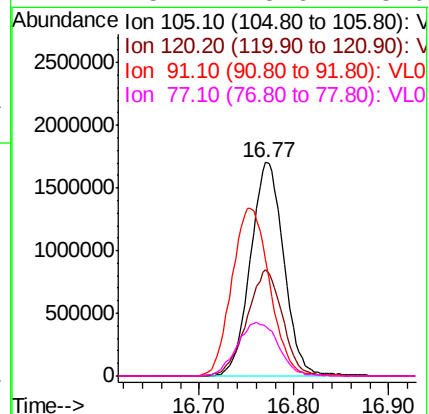
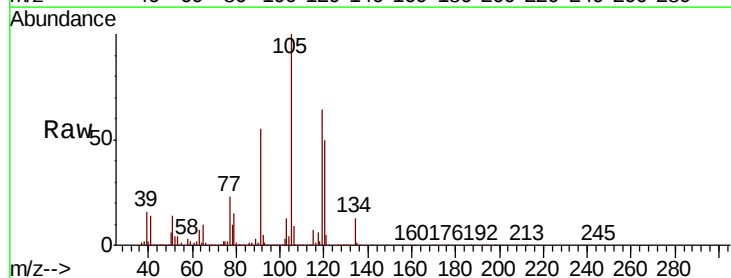
Ion Ratio Lower Upper

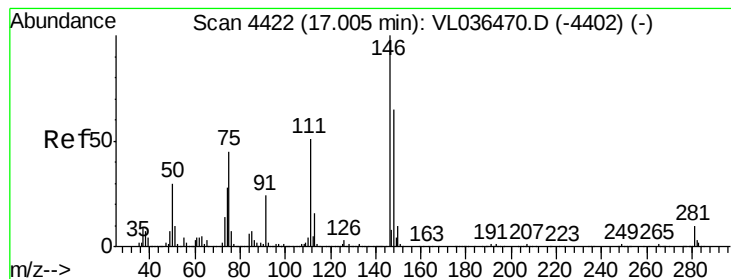
105 100

120 49.7 39.2 58.8

91 54.7 42.6 64.0

77 23.4 18.6 28.0





#75

1,3-Dichlorobenzene

Concen: 7.989 ppbv

RT: 17.00 min Scan# 4422

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

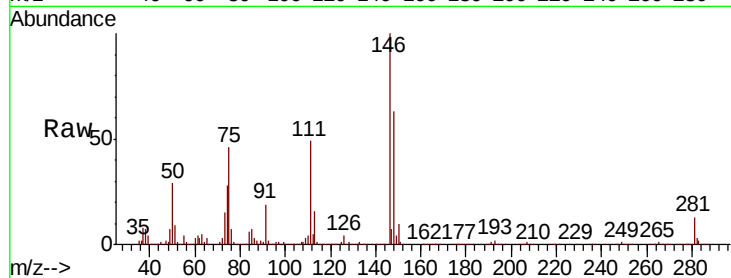
Tot Ion:146 Resp: 2415252

Ion Ratio Lower Upper

146 100

111 48.6 24.5 73.5

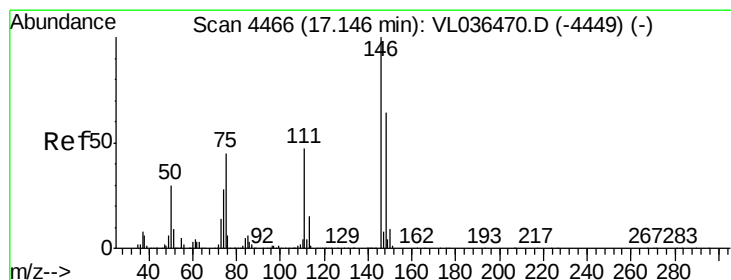
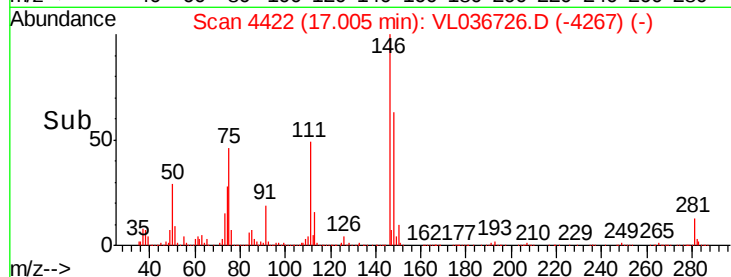
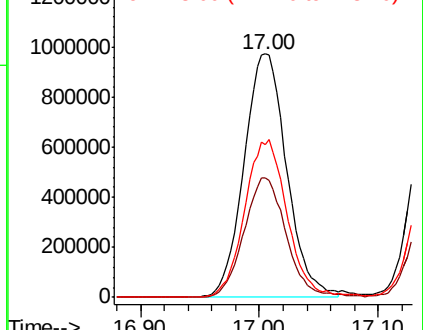
148 64.6 32.3 96.9



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: 7.753 ppbv

RT: 17.14 min Scan# 4465

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

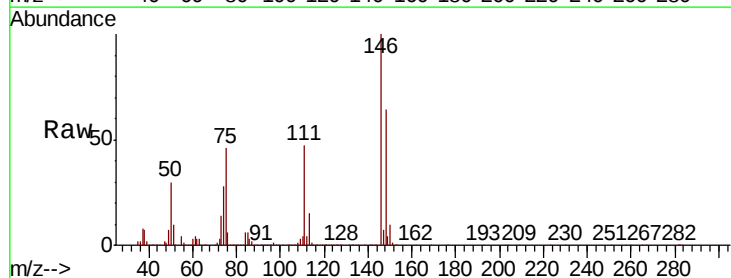
Tgt Ion:146 Resp: 2327135

Ion Ratio Lower Upper

146 100

111 49.0 24.3 72.8

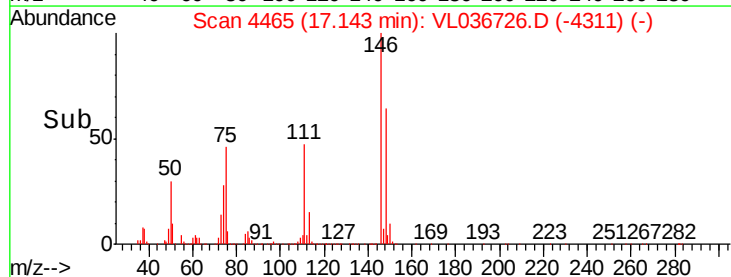
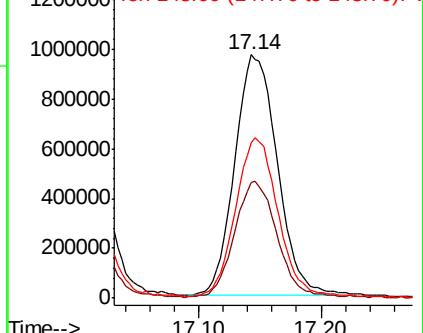
148 67.3 33.0 98.9

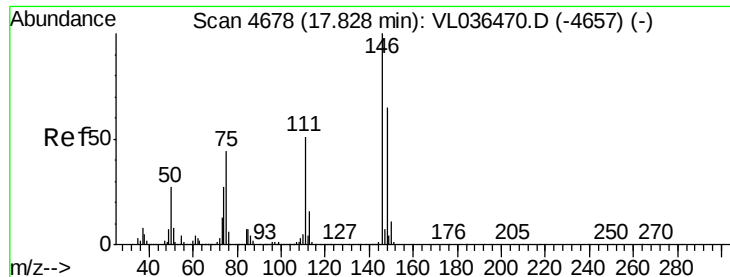


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.261 ppbv

RT: 17.82 min Scan# 4677

Delta R.T. -0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

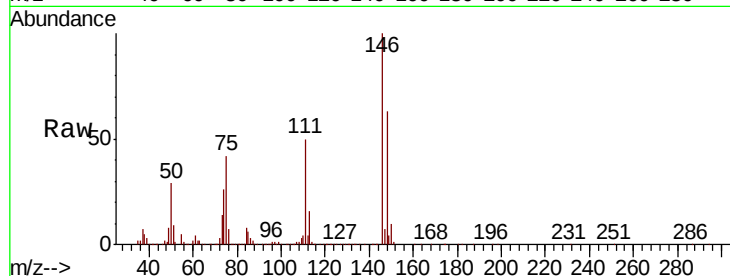
Tot Ion:146 Resp: 2347782

Ion Ratio Lower Upper

146 100

111 50.1 25.5 76.5

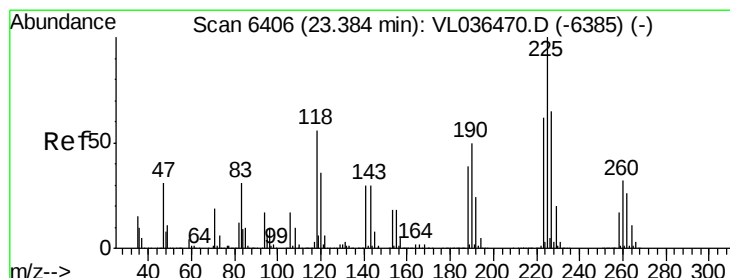
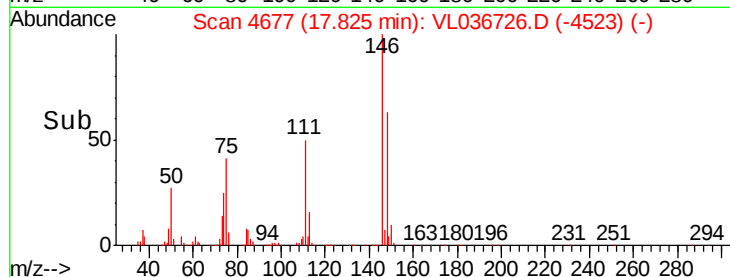
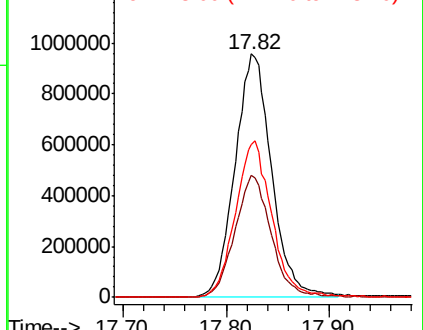
148 64.2 32.9 98.6



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



#78

Hexachloro-1,3-Butadiene

Concen: 6.739 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. 0.00 min

Lab File: VL036726.D

Acq: 7 Apr 2021 13:20

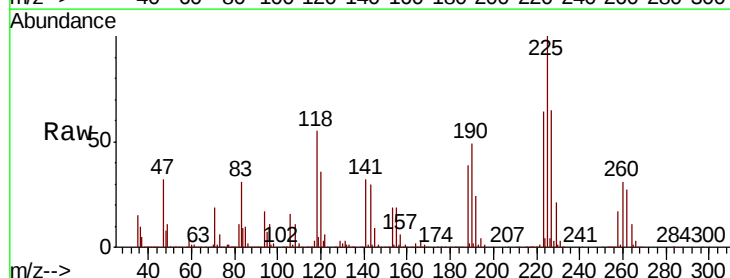
Tgt Ion:225 Resp: 1715075

Ion Ratio Lower Upper

225 100

223 64.6 50.6 75.8

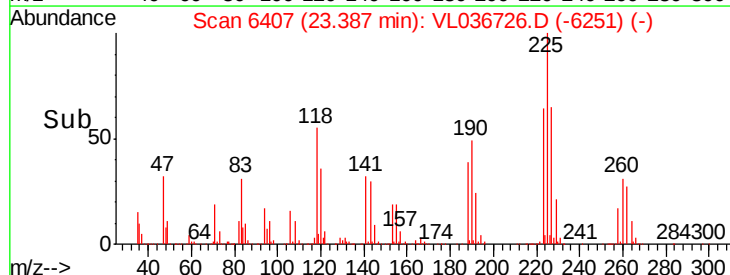
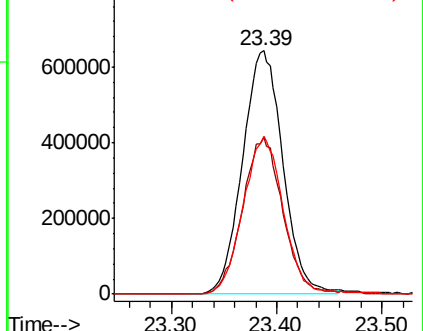
227 65.4 52.2 78.2

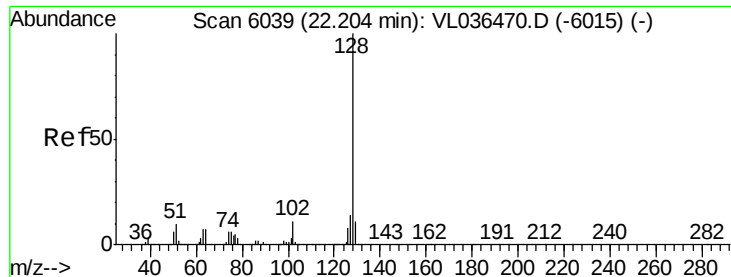


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

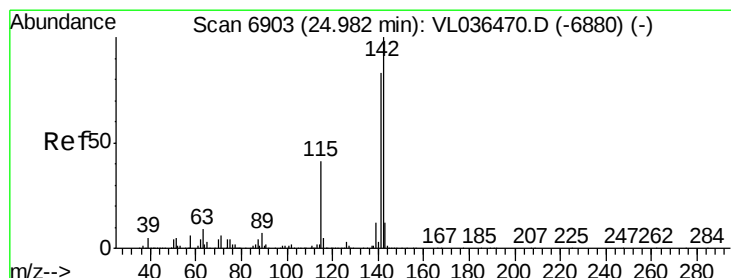
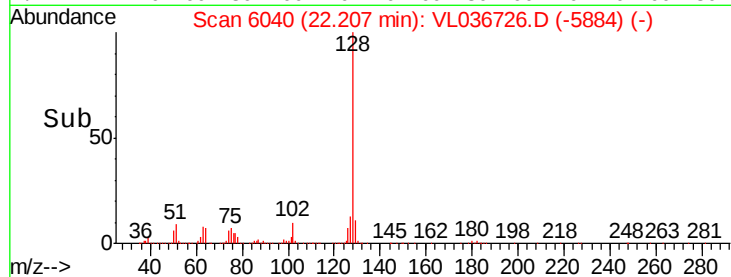
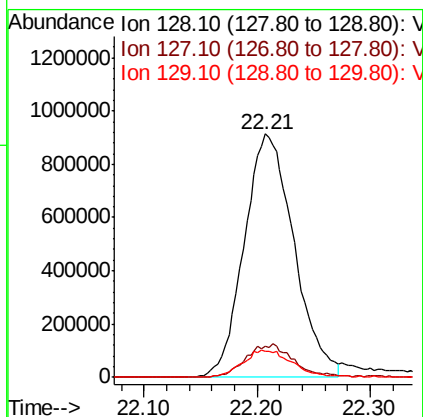
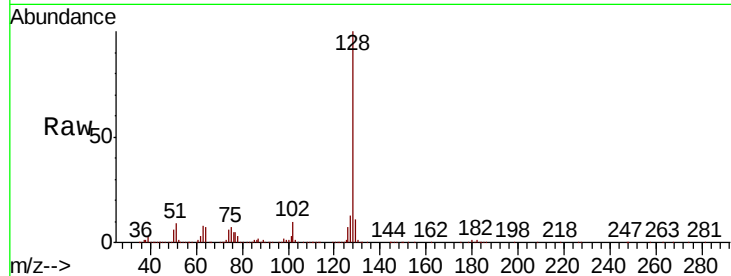




#79  
Naphthalene  
Concen: 8.871 ppbv  
RT: 22.21 min Scan# 6040  
Delta R.T. 0.00 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

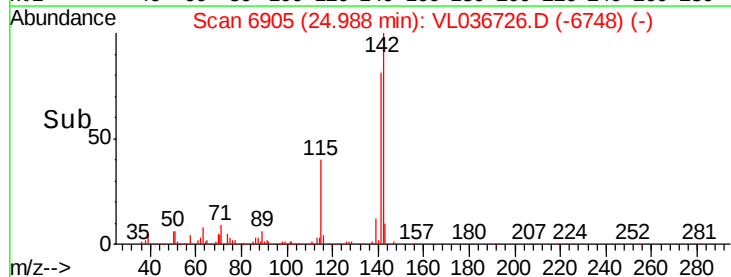
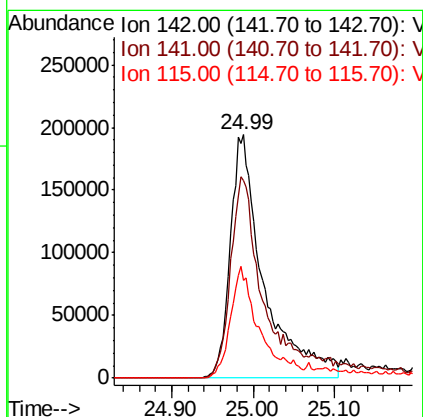
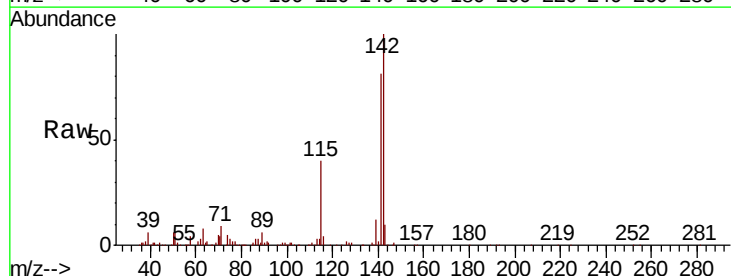
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

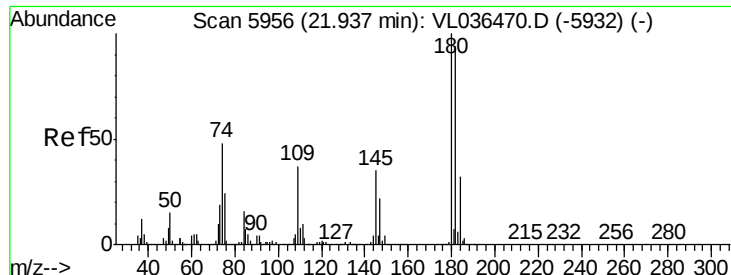
Tot Ion:128 Resp: 2780409  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.9 16.3  
129 10.8 9.0 13.4



#80  
Naphthalene, 2-methyl-  
Concen: 9.017 ppbv  
RT: 24.99 min Scan# 6905  
Delta R.T. 0.01 min  
Lab File: VL036726.D  
Acq: 7 Apr 2021 13:20

Tgt Ion:142 Resp: 557297  
Ion Ratio Lower Upper  
142 100  
141 92.3 67.8 101.8  
115 42.8 34.0 51.0

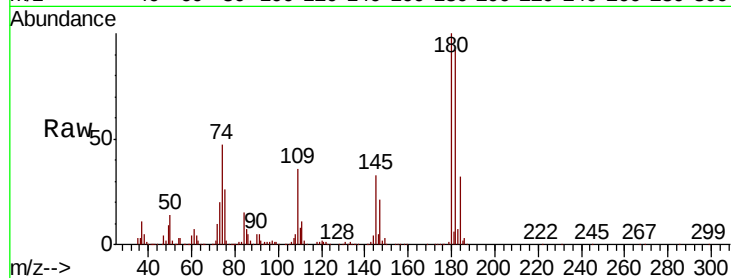




#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.393 ppbv  
 RT: 21.94 min Scan# 5956  
 Delta R.T. -0.00 min  
 Lab File: VL036726.D  
 Acq: 7 Apr 2021 13:20

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:180 Resp: 1624222  
 Ion Ratio Lower Upper  
 180 100  
 182 100.2 80.8 121.2  
 184 31.4 25.0 37.4



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

