

Data File : VL035076.D  
Acq On : 20 May 2020 11:47  
Operator : SY/AP  
Sample : VSTDCCC010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Quant Time: May 20 14:04:41 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed May 06 14:49:39 2020  
QLast Update : Wed May 06 14:49:39 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1148300  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2737631  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3294556  | 10.00 | ppbv  | -0.03    |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 2183800  | 8.19     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 81.90% |

#### Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 3.00 | 85  | 1425709 | 8.748  | ppbv | 99     |
| 3) Chlorodifluoromethane       | 2.93 | 51  | 1308593 | 9.981  | ppbv | 98     |
| 4) Chloromethane               | 3.09 | 50  | 759680  | 10.111 | ppbv | 100    |
| 5) Vinyl Chloride              | 3.20 | 62  | 738281  | 10.073 | ppbv | 98     |
| 6) Bromomethane                | 3.42 | 94  | 423224  | 9.671  | ppbv | 92     |
| 7) Chloroethane                | 3.51 | 64  | 265602  | 10.090 | ppbv | 95     |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85  | 1584546 | 9.395  | ppbv | 98     |
| 9) Propene                     | 2.96 | 41  | 638621  | 11.226 | ppbv | 100    |
| 10) Heptane                    | 8.11 | 43  | 1596617 | 11.202 | ppbv | 97     |
| 11) Trichlorofluoromethane     | 3.91 | 101 | 1574579 | 9.370  | ppbv | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101 | 1129638 | 9.441  | ppbv | 98     |
| 13) Ethanol                    | 3.56 | 45  | 168634  | 8.983  | ppbv | 99     |
| 14) Bromoethene                | 3.69 | 108 | 510481  | 10.324 | ppbv | 98     |
| 15) Acetone                    | 3.80 | 43  | 1341867 | 8.839  | ppbv | 99     |
| 16) 1,3-Butadiene              | 3.28 | 39  | 690082  | 10.563 | ppbv | 97     |
| 17) tert-Butyl alcohol         | 4.25 | 59  | 1348962 | 9.987  | ppbv | 98     |
| 18) 1,1-Dichloroethene         | 4.25 | 96  | 526796  | 10.148 | ppbv | 96     |
| 19) Isopropyl Alcohol          | 3.93 | 45  | 993520  | 9.814  | ppbv | 99     |
| 20) Methylene Chloride         | 4.30 | 84  | 453452  | 9.023  | ppbv | 95     |
| 21) Allyl Chloride             | 4.37 | 41  | 924064  | 10.776 | ppbv | 98     |
| 22) trans-1,2-Dichloroethene   | 4.85 | 96  | 521154  | 10.135 | ppbv | 94     |
| 23) Vinyl Acetate              | 5.04 | 43  | 2142565 | 11.130 | ppbv | 98     |
| 24) 1,1-Dichloroethane         | 4.98 | 63  | 1445138 | 9.746  | ppbv | 98     |
| 25) Ethyl Acetate              | 5.65 | 43  | 2717077 | 10.655 | ppbv | 100    |
| 26) Hexane                     | 5.66 | 57  | 1177608 | 10.652 | ppbv | 98     |
| 27) Carbon Disulfide           | 4.51 | 76  | 1287442 | 9.881  | ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.00 | 73  | 1742722 | 10.351 | ppbv | 98     |
| 29) Chloroform                 | 5.73 | 83  | 1725167 | 9.538  | ppbv | 99     |
| 30) Cyclohexane                | 7.11 | 84  | 982012  | 11.511 | ppbv | 98     |
| 31) cis-1,2-Dichloroethene     | 5.52 | 61  | 1193990 | 11.069 | ppbv | 96     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97  | 1639563 | 10.037 | ppbv | 99     |
| 34) 2-Butanone                 | 5.21 | 43  | 1817584 | 10.682 | ppbv | 99     |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 1645361 | 9.522  | ppbv | 96     |
| 36) Benzene                    | 6.88 | 78  | 2358941 | 10.451 | ppbv | 98     |
| 37) 1,2-Dichloroethane         | 6.29 | 62  | 1331133 | 9.561  | ppbv | 99     |
| 38) Trichloroethene            | 7.83 | 130 | 885384  | 10.126 | ppbv | 98     |
| 39) 1,2-Dichloropropane        | 7.60 | 63  | 927826  | 10.254 | ppbv | 96     |
| 40) 1,4-Dioxane                | 7.82 | 88  | 359114  | 9.765  | ppbv | 92     |
| 41) Tetrahydrofuran            | 6.02 | 42  | 1054410 | 11.770 | ppbv | 98     |
| 42) Bromodichloromethane       | 7.78 | 83  | 1812849 | 9.654  | ppbv | 97     |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1060449 | 11.127 | ppbv | 97     |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed May 06 14:49:39 2020  
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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 4045542  | 10.082 | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1148346  | 11.939 | ppbv  | 97       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1374598  | 11.641 | ppbv  | 96       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 947427   | 9.923  | ppbv  | 94       |
| 48) Dibromochloromethane      | 10.31 | 129  | 1480314  | 10.082 | ppbv  | 100      |
| 49) Bromoform                 | 13.06 | 173  | 1234490  | 9.771  | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2623407  | 10.812 | ppbv  | 99       |
| 51) 2-Hexanone                | 10.13 | 43   | 2155218  | 11.357 | ppbv  | 98       |
| 52) Tetrachloroethene         | 11.23 | 164  | 807107   | 10.057 | ppbv  | 99       |
| 53) Toluene                   | 9.81  | 91   | 2703110  | 11.298 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1427915  | 10.184 | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1125438  | 7.575  | ppbv  | 99       |
| 57) Chlorobenzene             | 12.16 | 112  | 1967826  | 7.539  | ppbv  | 98       |
| 58) Ethyl Benzene             | 12.72 | 91   | 3513699  | 8.625  | ppbv  | 100      |
| 59) m/p-Xylene                | 13.01 | 91   | 2906818  | 8.110  | ppbv  | 91       |
| 60) o-Xylene                  | 13.71 | 91   | 2817310  | 7.965  | ppbv  | 100      |
| 61) Styrene                   | 13.54 | 104  | 2066714  | 9.233  | ppbv  | 98       |
| 62) Isopropylbenzene          | 14.68 | 105  | 4169783  | 7.896  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 1930838  | 6.935  | ppbv  | 99       |
| 64) n-propylbenzene           | 15.58 | 120  | 1106547  | 8.169  | ppbv  | 98       |
| 65) tert-Butylbenzene         | 16.77 | 119  | 3604185  | 7.869  | ppbv  | 99       |
| 66) Benzyl Chloride           | 17.01 | 91   | 1330160  | 8.555  | ppbv  | 97       |
| 67) sec-Butylbenzene          | 17.32 | 105  | 5177391  | 7.919  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 4324186  | 8.175  | ppbv  | 99       |
| 70) n-Butylbenzene            | 18.57 | 91   | 4657325  | 8.273  | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 15.47 | 91   | 3252521  | 8.159  | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.86 | 105  | 3342533  | 8.470  | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 3109507  | 8.097  | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 3205892  | 7.648  | ppbv  | 99       |
| 75) 1,3-Dichlorobenzene       | 17.02 | 146  | 1901509  | 7.725  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.17 | 146  | 1889092  | 8.077  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.84 | 146  | 1865990  | 8.046  | ppbv  | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.41 | 225  | 1725346  | 8.728  | ppbv  | 99       |
| 79) Naphthalene               | 22.23 | 128  | 2048135  | 6.274  | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.99 | 142  | 1209170  | 15.069 | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.97 | 180  | 2025143  | 10.231 | ppbv  | 100      |

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

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**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDCCC010EC

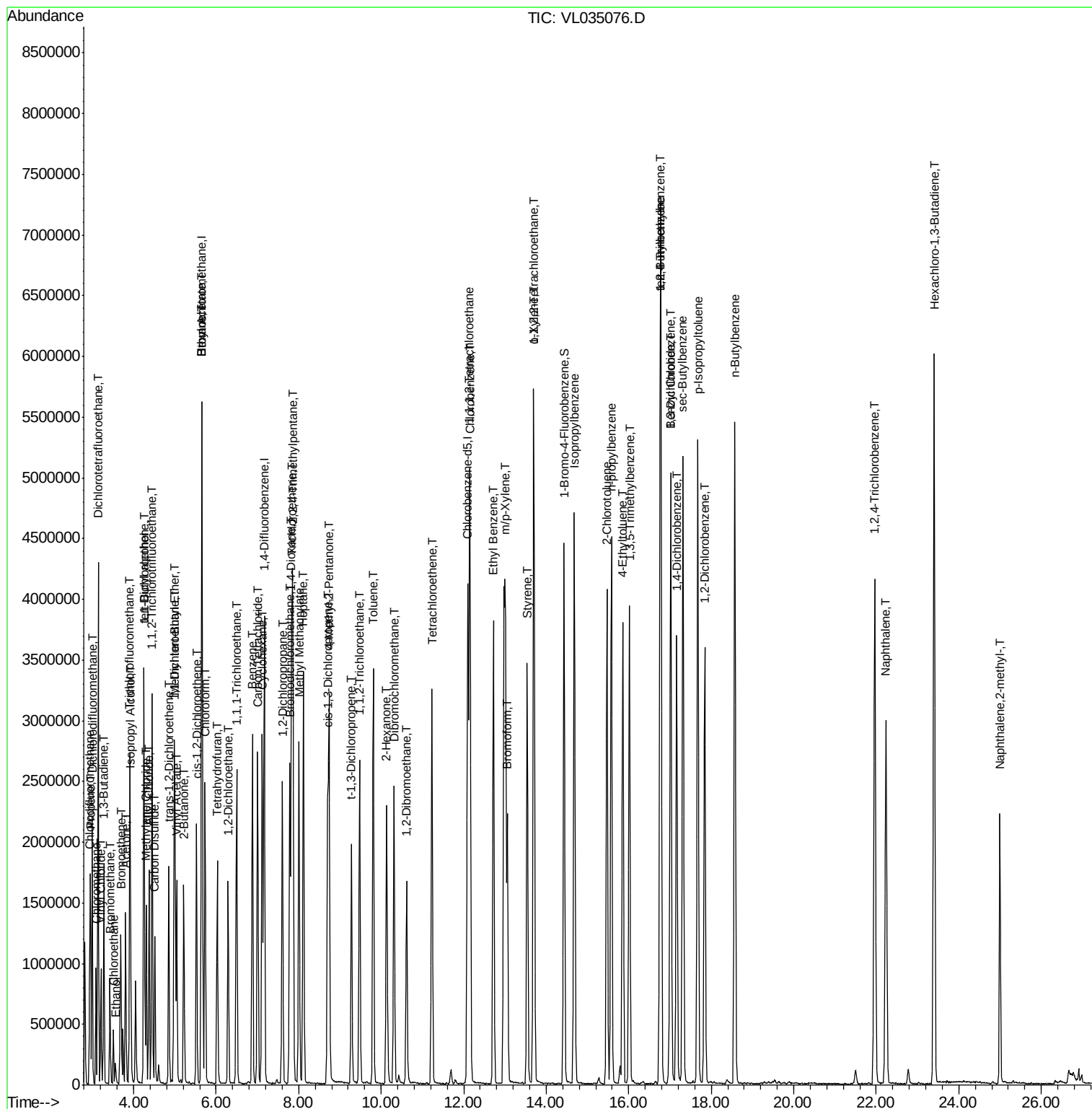
Quant Time: May 20 14:04:41 2020

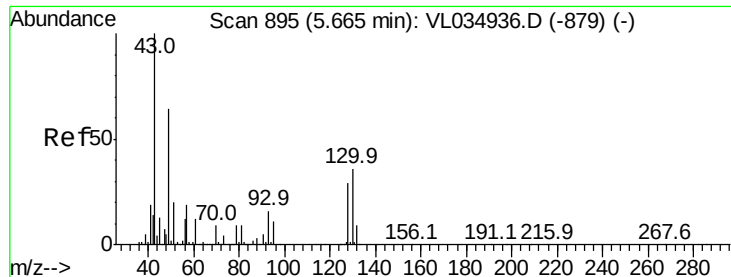
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_L\METHODS\VL050620AIR.M

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QLast Update : Wed May 06 14:49:39 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

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Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

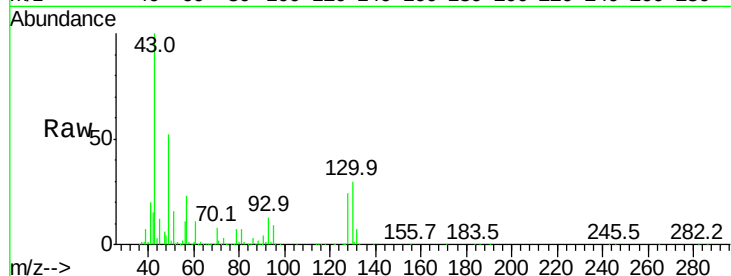
Tgt Ion: 49 Resp: 1148300

Ion Ratio Lower Upper

49 100

128 45.2 22.1 66.5

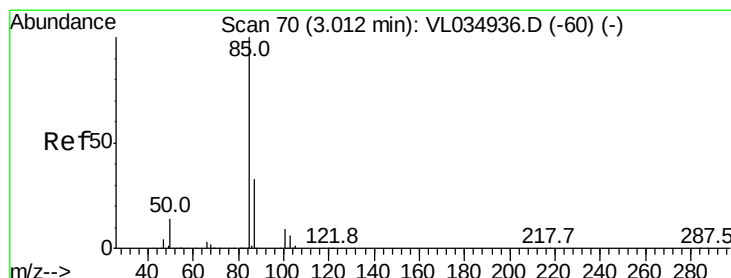
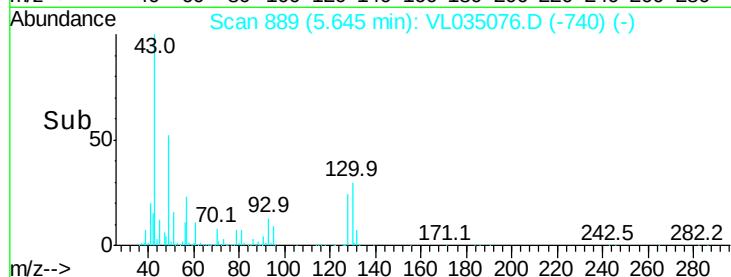
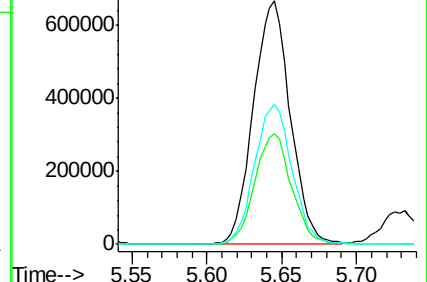
130 58.6 29.1 87.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.748 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035076.D

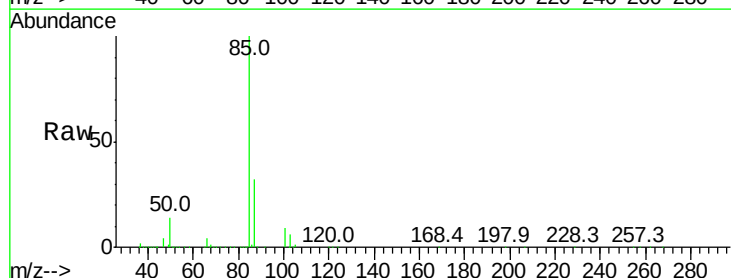
Acq: 20 May 2020 11:47

Tgt Ion: 85 Resp: 1425709

Ion Ratio Lower Upper

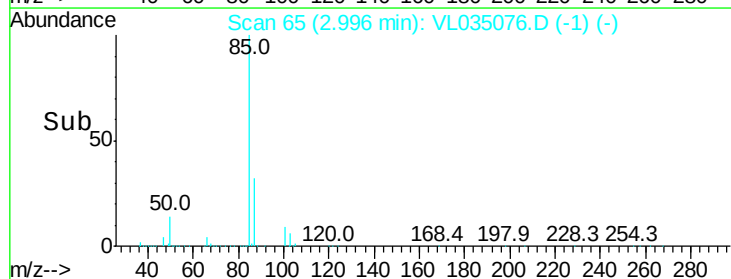
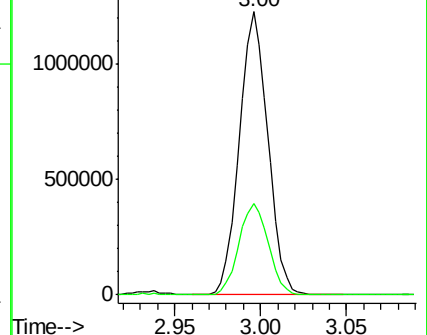
85 100

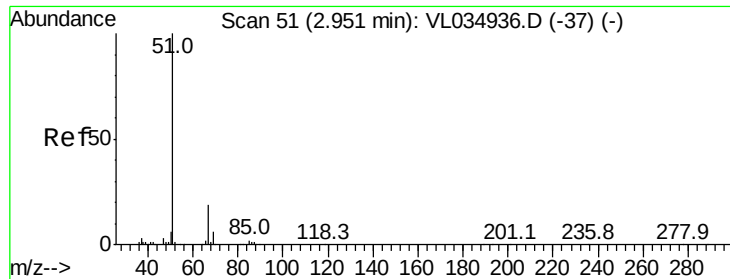
87 32.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.981 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

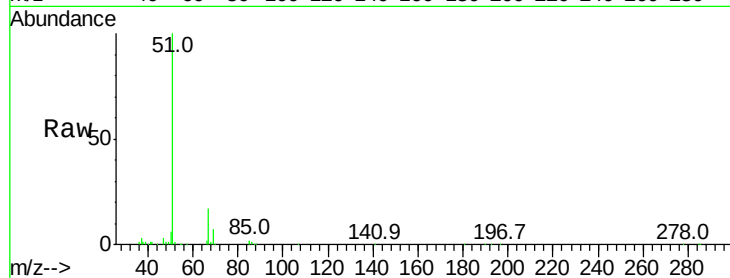
VSTDCCC010EC

Tgt Ion: 51 Resp: 1308593

Ion Ratio Lower Upper

51 100

67 18.0 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1200000

1000000

800000

600000

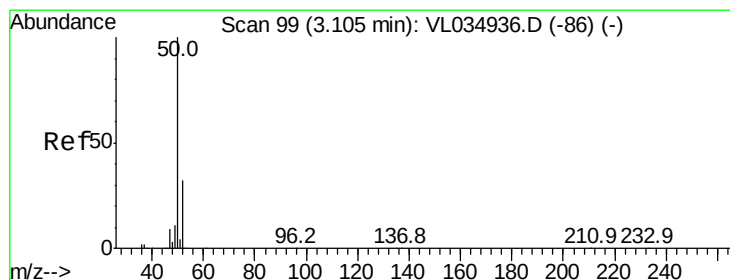
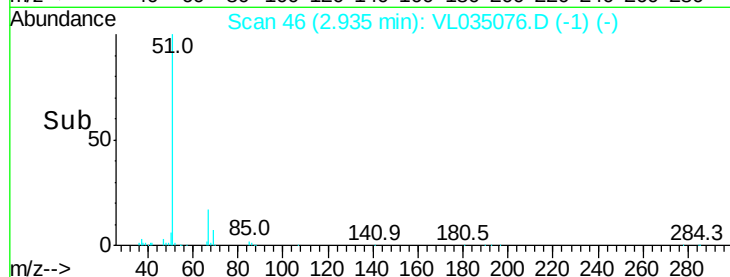
400000

200000

0

2.85 2.90 2.95 3.00

Time-->



#4

Chloromethane

Concen: 10.111 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.02 min

Lab File: VL035076.D

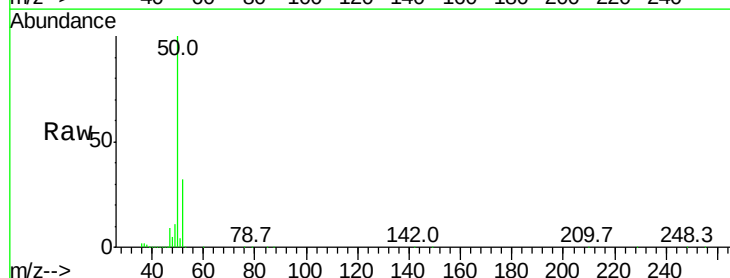
Acq: 20 May 2020 11:47

Tgt Ion: 50 Resp: 759680

Ion Ratio Lower Upper

50 100

52 32.0 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

600000

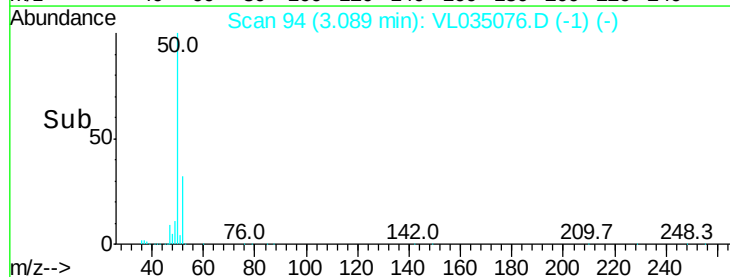
400000

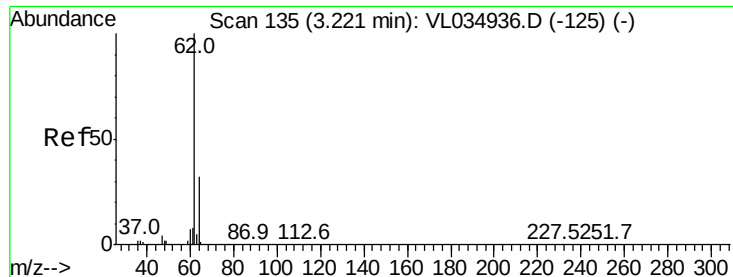
200000

0

3.05 3.10

Time-->





#5

Vinyl Chloride

Concen: 10.073 ppbv

RT: 3.20 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

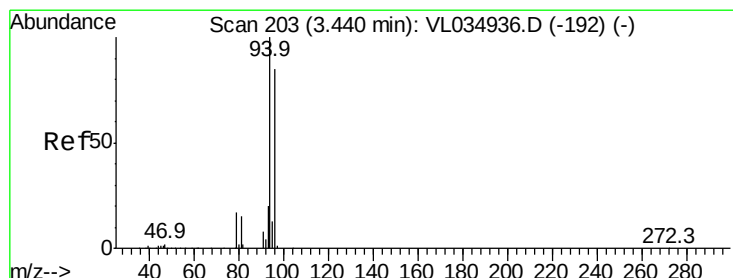
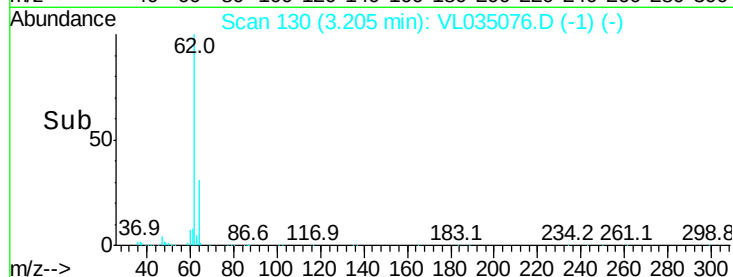
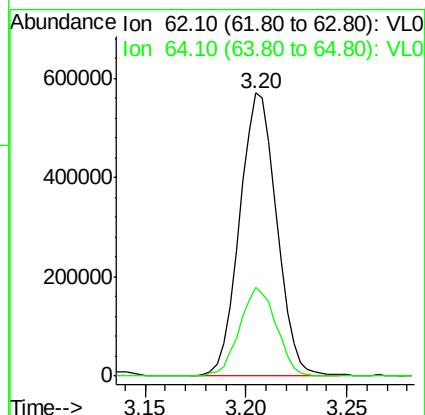
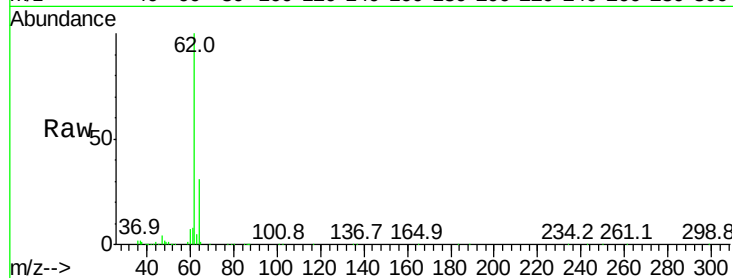
VSTDCCC010EC

Tgt Ion: 62 Resp: 738281

Ion Ratio Lower Upper

62 100

64 31.2 25.7 38.5



#6

Bromomethane

Concen: 9.671 ppbv

RT: 3.42 min Scan# 198

Delta R.T. -0.02 min

Lab File: VL035076.D

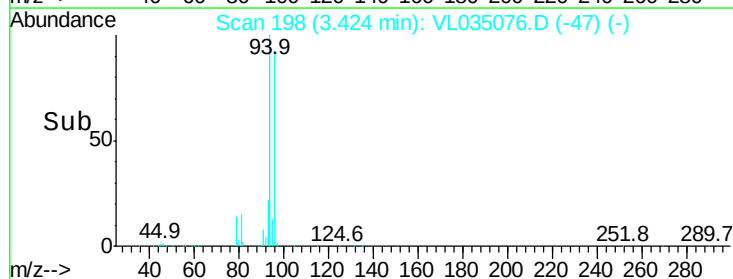
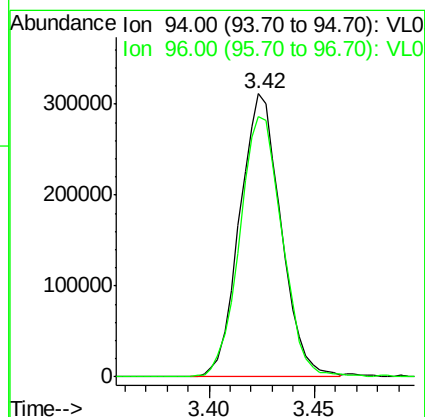
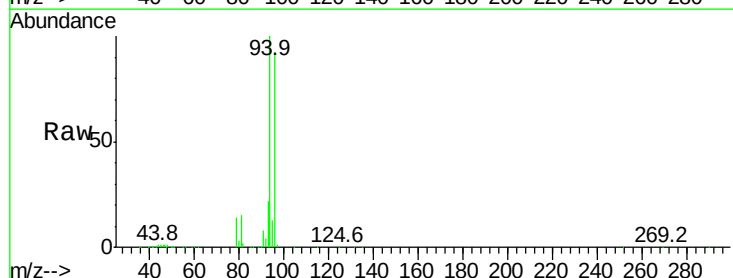
Acq: 20 May 2020 11:47

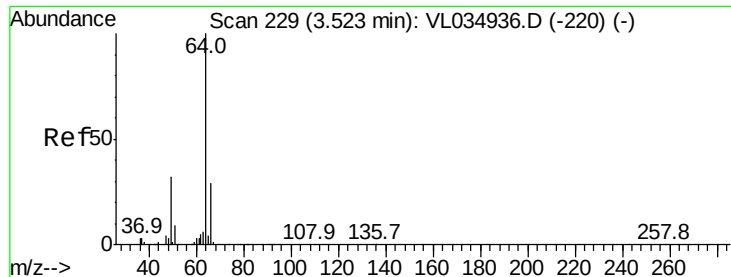
Tgt Ion: 94 Resp: 423224

Ion Ratio Lower Upper

94 100

96 91.8 67.9 101.9





#7

Chloroethane

Concen: 10.090 ppbv

RT: 3.51 min Scan# 225

Delta R.T. -0.01 min

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Acq: 20 May 2020 11:47

Instrument :

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ClientSampleId :

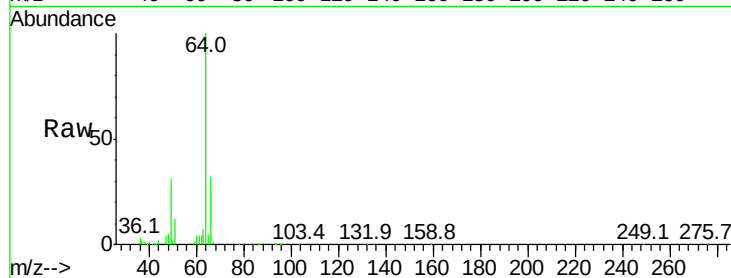
VSTDCCC010EC

Tgt Ion: 64 Resp: 265602

Ion Ratio Lower Upper

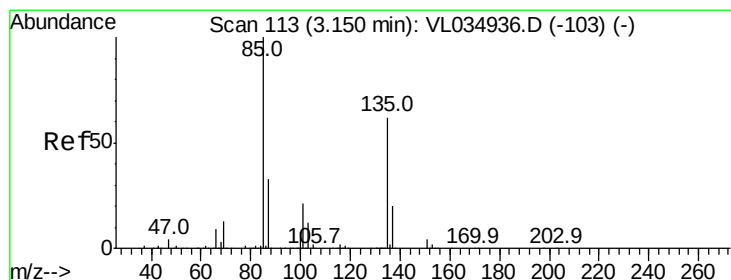
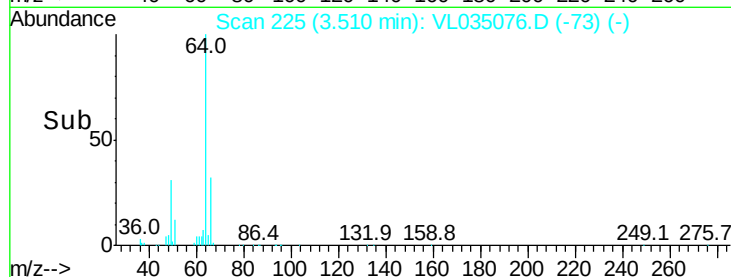
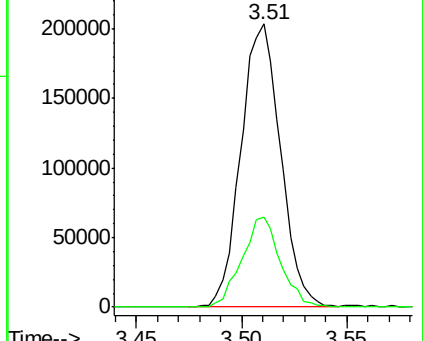
64 100

66 31.9 23.2 34.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.395 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL035076.D

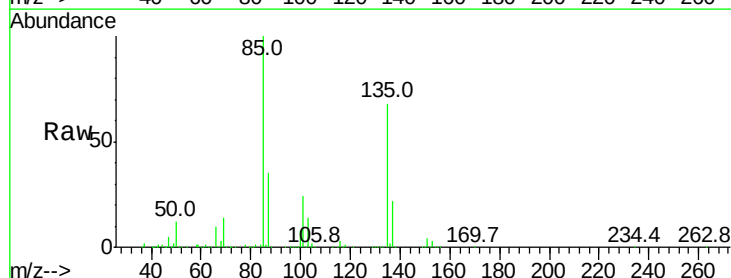
Acq: 20 May 2020 11:47

Tgt Ion: 85 Resp: 1584546

Ion Ratio Lower Upper

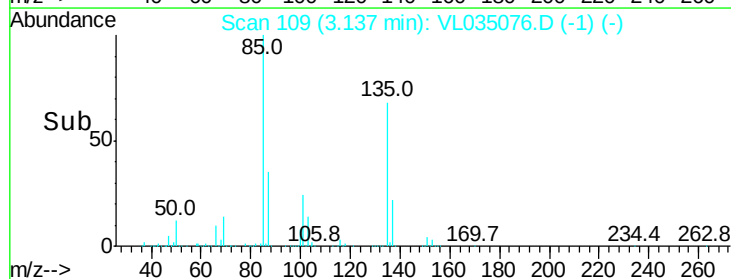
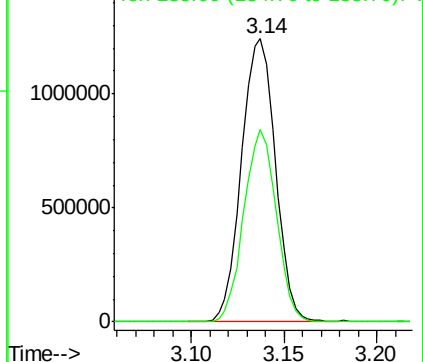
85 100

135 65.3 50.9 76.3

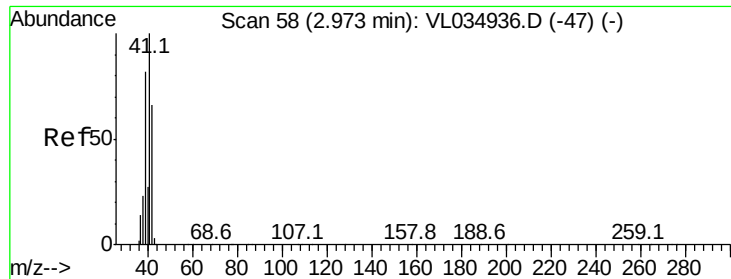


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0







#9

Propene

Concen: 11.226 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.02 min

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ClientSampleId :

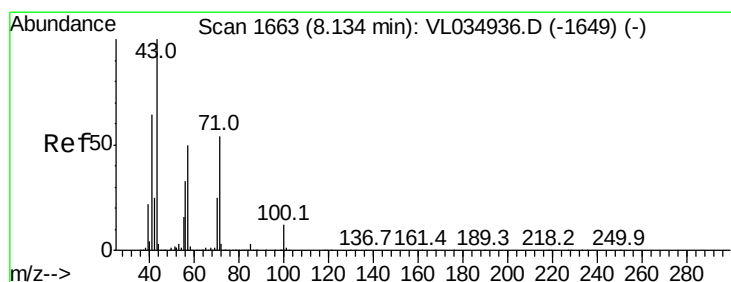
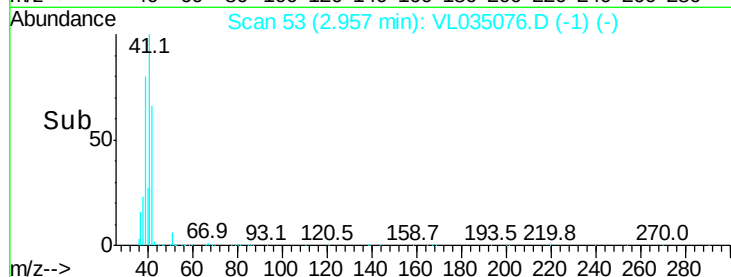
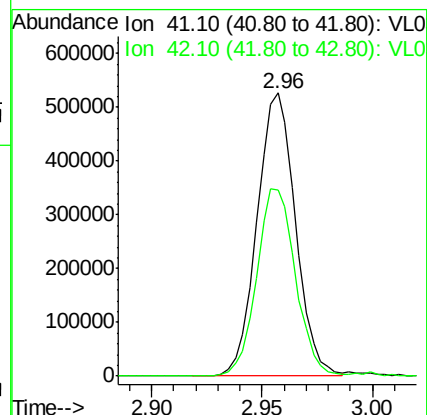
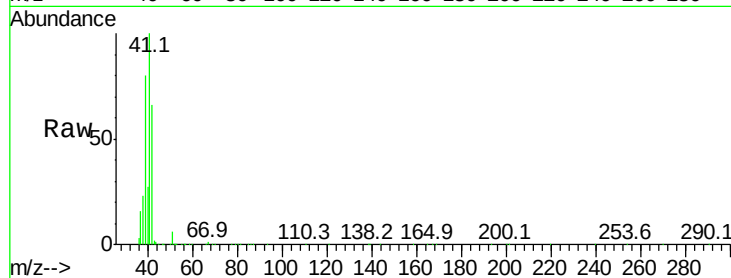
VSTDCCC010EC

Tgt Ion: 41 Resp: 638621

Ion Ratio Lower Upper

41 100

42 67.8 54.5 81.7



#10

Heptane

Concen: 11.202 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.02 min

Lab File: VL035076.D

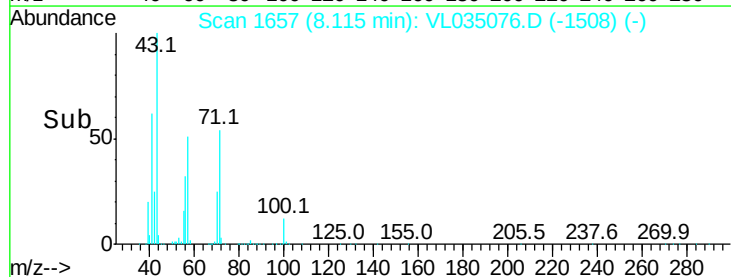
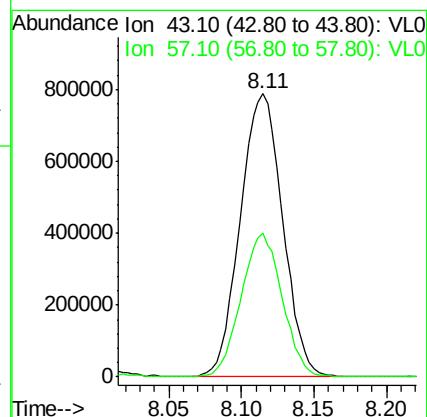
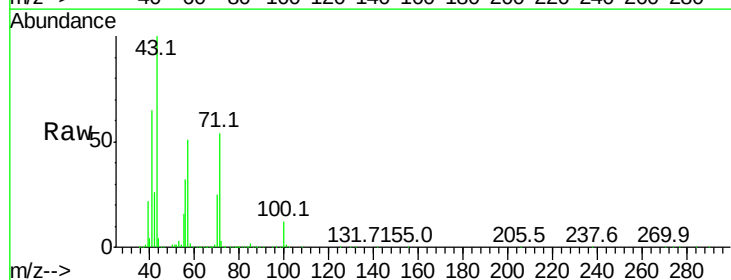
Acq: 20 May 2020 11:47

Tgt Ion: 43 Resp: 1596617

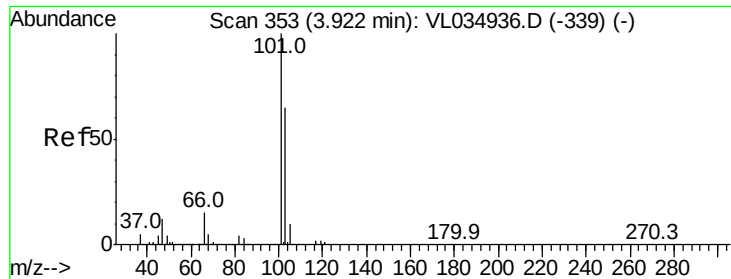
Ion Ratio Lower Upper

43 100

57 49.2 41.1 61.7



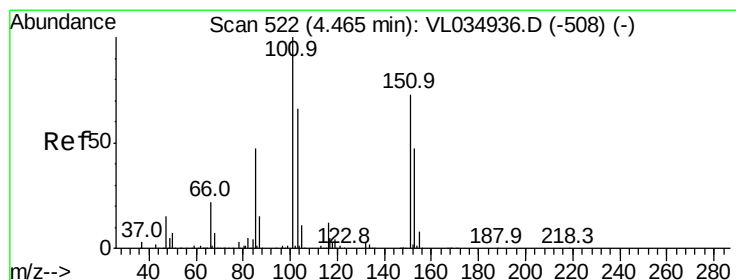
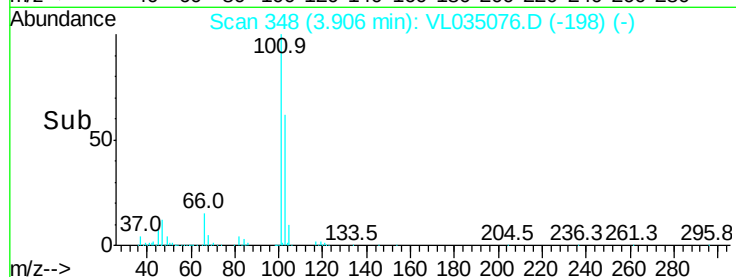
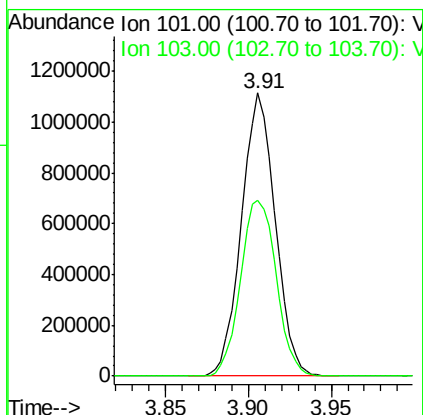
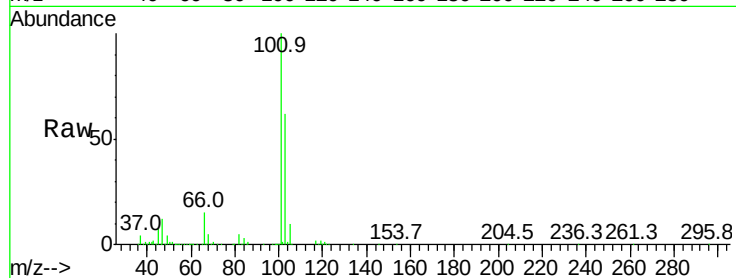




#11  
 Trichlorofluoromethane  
 Concen: 9.370 ppbv  
 RT: 3.91 min Scan# 348  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

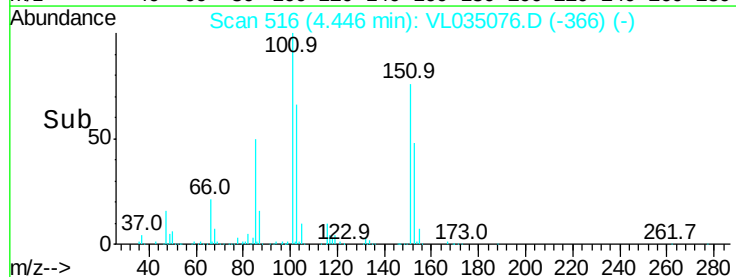
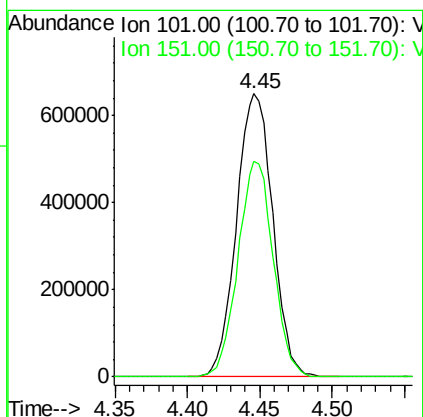
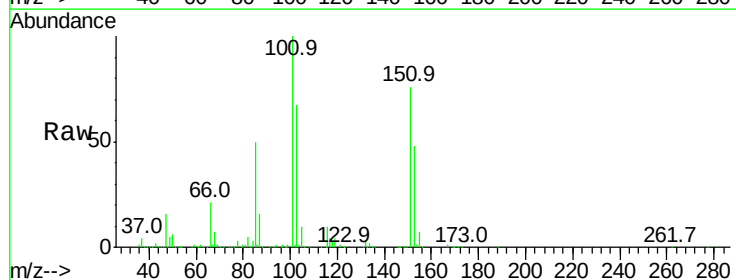
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

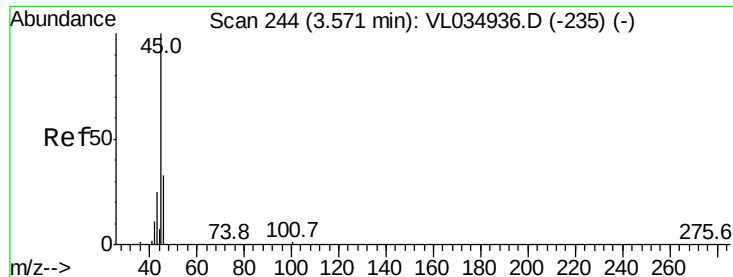
Tgt Ion:101 Resp: 1574579  
 Ion Ratio Lower Upper  
 101 100  
 103 62.0 51.9 77.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.441 ppbv  
 RT: 4.45 min Scan# 516  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

Tgt Ion:101 Resp: 1129638  
 Ion Ratio Lower Upper  
 101 100  
 151 74.0 57.6 86.4

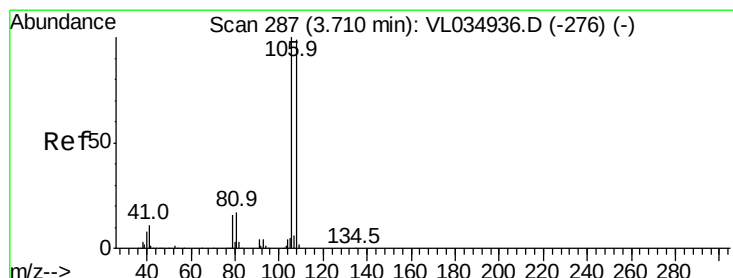
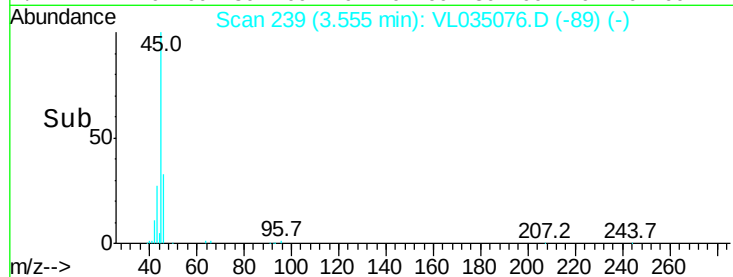
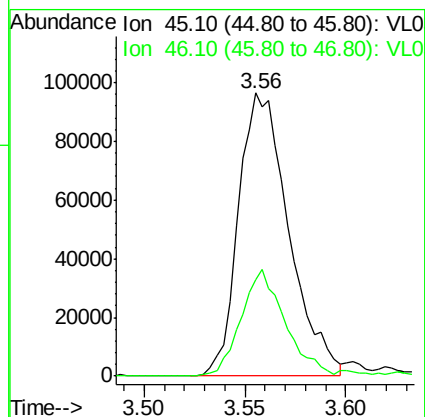
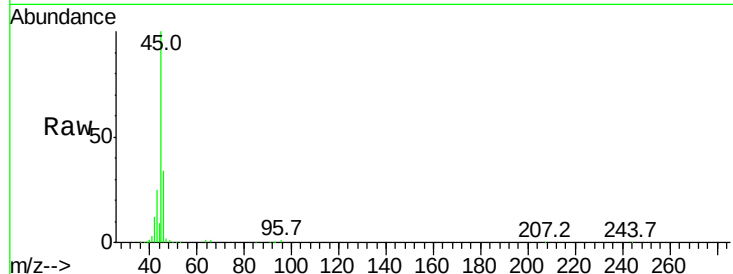




#13  
Ethanol  
Concen: 8.983 ppbv  
RT: 3.56 min Scan# 239  
Delta R.T. -0.02 min  
Lab File: VL035076.D  
Acq: 20 May 2020 11:47

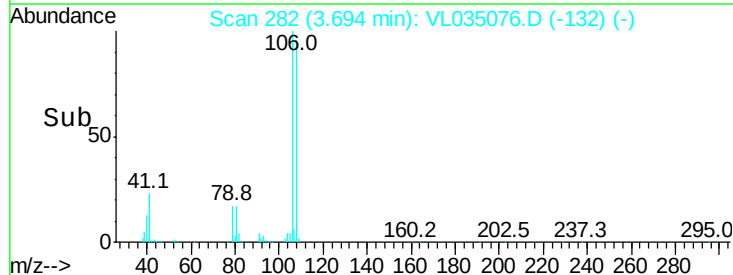
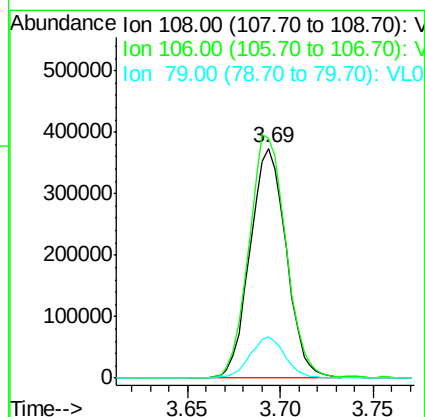
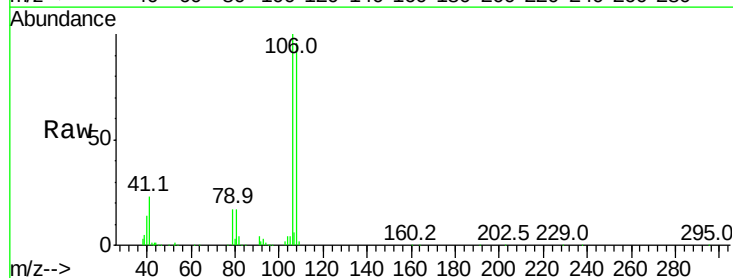
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

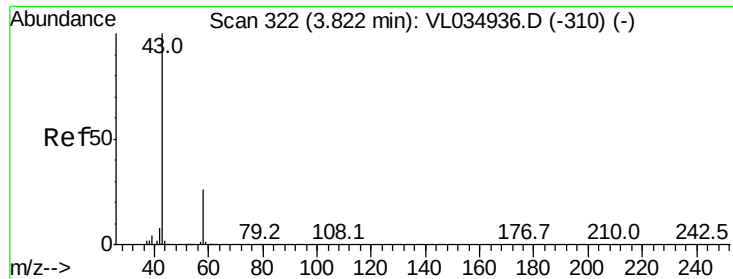
Tgt Ion: 45 Resp: 168634  
Ion Ratio Lower Upper  
45 100  
46 35.2 14.3 57.3



#14  
Bromoethene  
Concen: 10.324 ppbv  
RT: 3.69 min Scan# 282  
Delta R.T. -0.02 min  
Lab File: VL035076.D  
Acq: 20 May 2020 11:47

Tgt Ion: 108 Resp: 510481  
Ion Ratio Lower Upper  
108 100  
106 108.8 84.9 127.3  
79 17.6 14.1 21.1





#15

Acetone

Concen: 8.839 ppbv

RT: 3.80 min Scan# 316

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

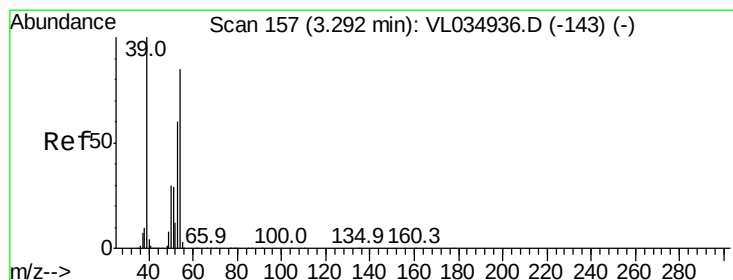
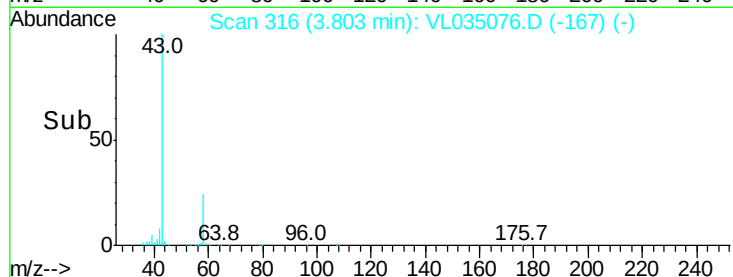
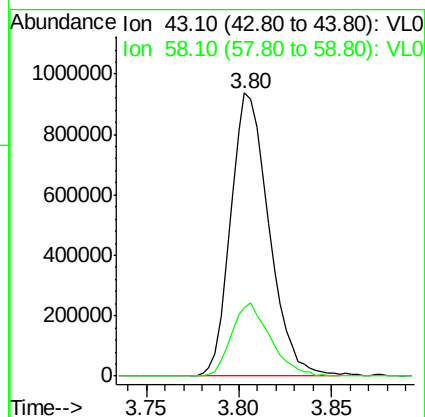
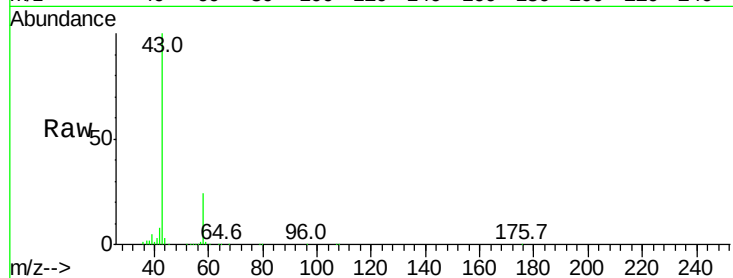
VSTDCCC010EC

Tgt Ion: 43 Resp: 1341867

Ion Ratio Lower Upper

43 100

58 26.7 21.7 32.5



#16

1,3-Butadiene

Concen: 10.563 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.02 min

Lab File: VL035076.D

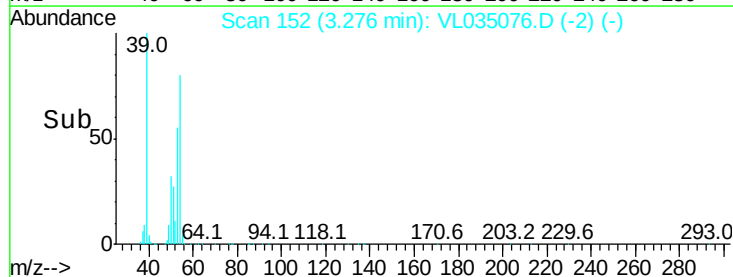
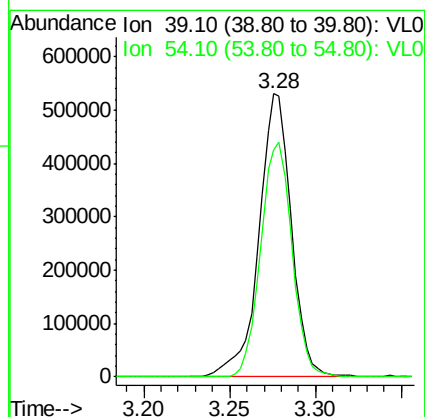
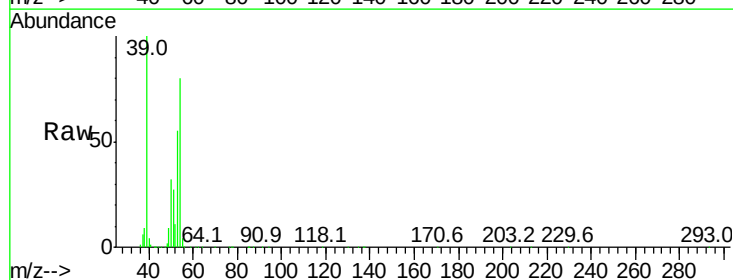
Acq: 20 May 2020 11:47

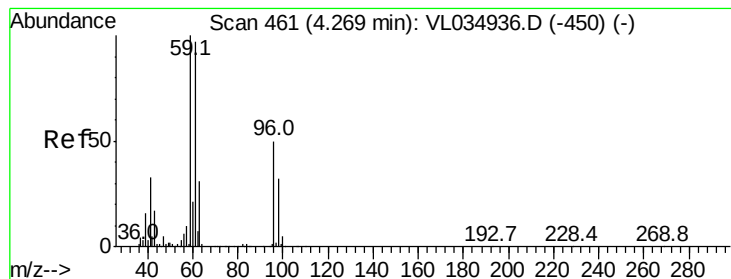
Tgt Ion: 39 Resp: 690082

Ion Ratio Lower Upper

39 100

54 81.0 66.6 100.0





#17

tert-Butyl alcohol

Concen: 9.987 ppbv

RT: 4.25 min Scan# 455

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

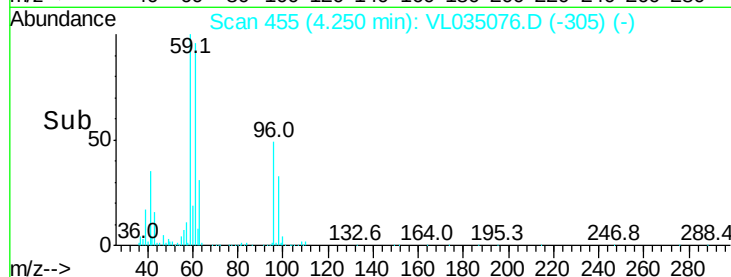
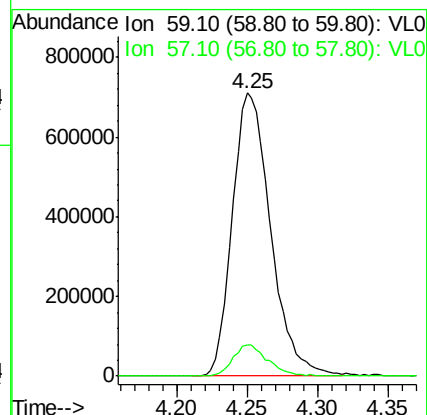
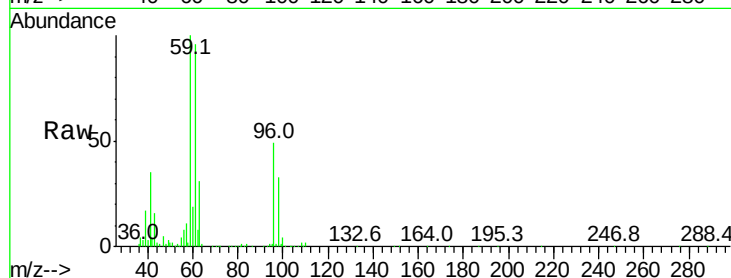
VSTDCCC010EC

Tgt Ion: 59 Resp: 1348962

Ion Ratio Lower Upper

59 100

57 10.3 8.7 13.1



#18

1,1-Dichloroethene

Concen: 10.148 ppbv

RT: 4.25 min Scan# 455

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

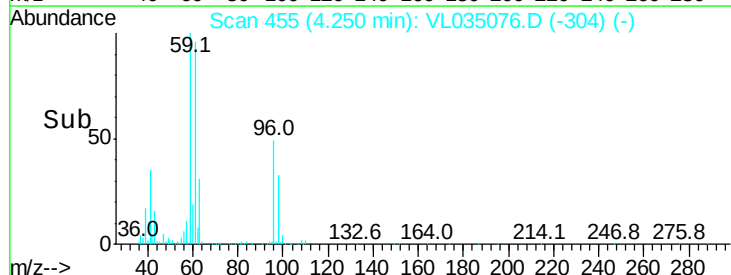
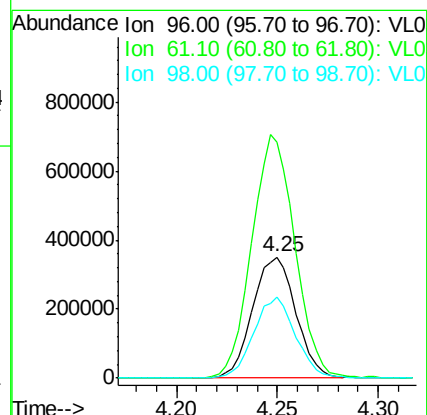
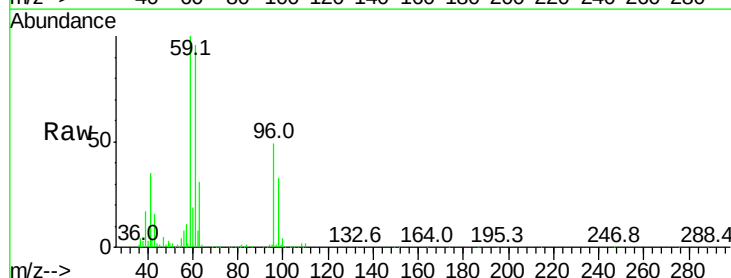
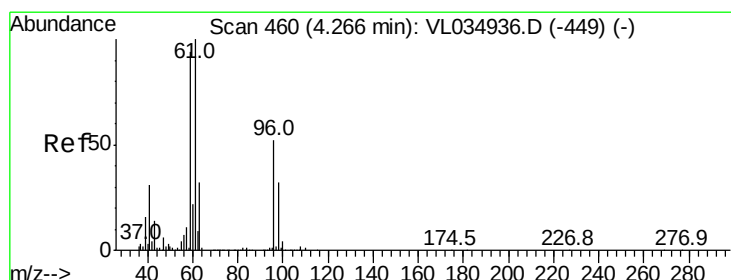
Tgt Ion: 96 Resp: 526796

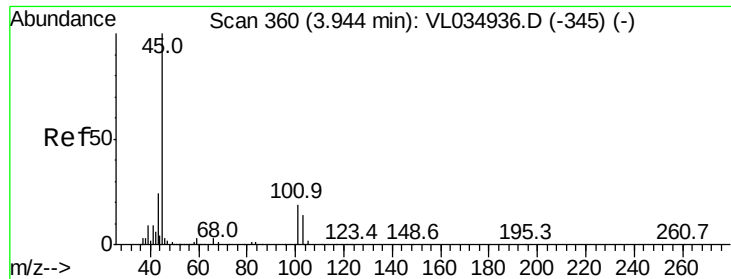
Ion Ratio Lower Upper

96 100

61 194.6 152.4 228.6

98 67.2 48.8 73.2





#19

Isopropyl Alcohol

Concen: 9.814 ppbv

RT: 3.93 min Scan# 354

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

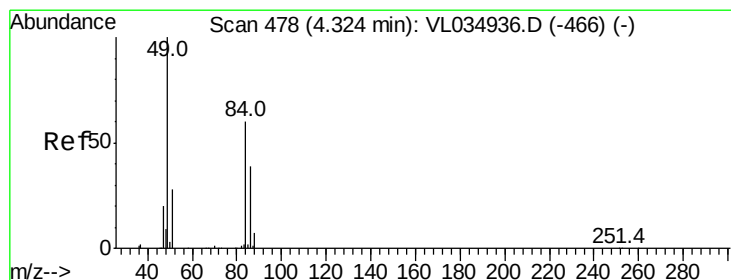
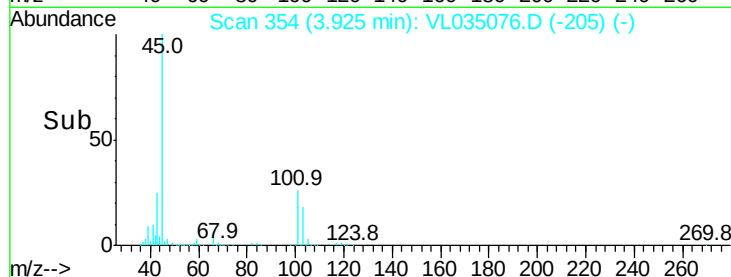
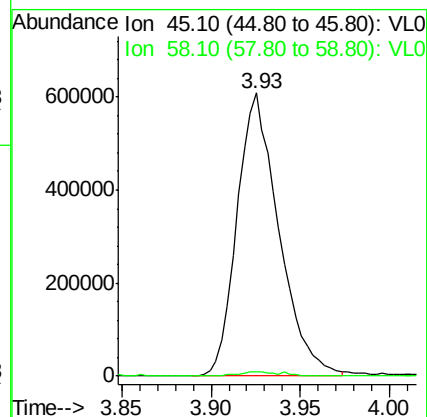
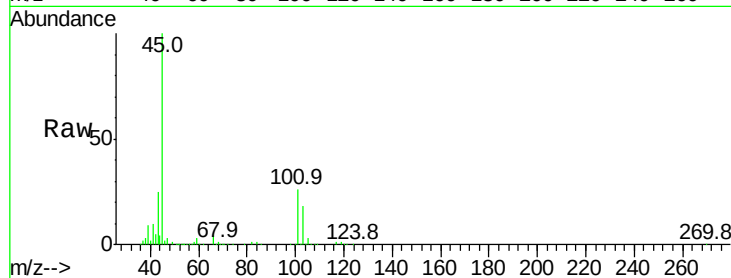
VSTDCCC010EC

Tgt Ion: 45 Resp: 993520

Ion Ratio Lower Upper

45 100

58 1.7 1.7 2.5



#20

Methylene Chloride

Concen: 9.023 ppbv

RT: 4.30 min Scan# 472

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Tgt Ion: 84 Resp: 453452

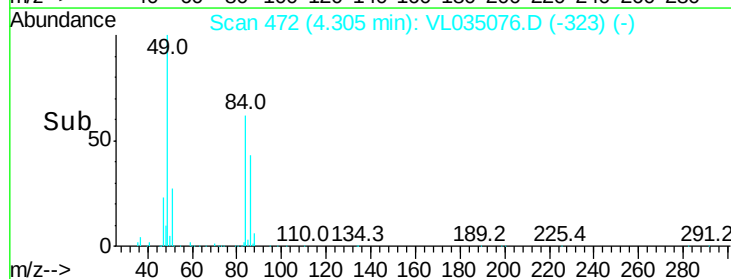
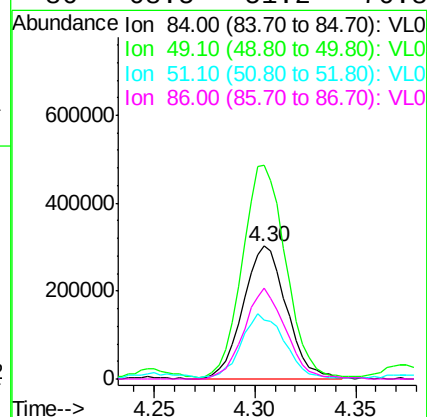
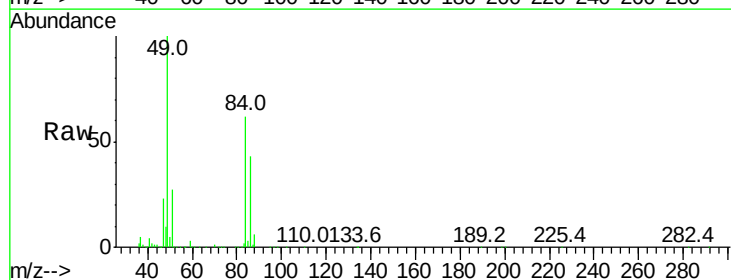
Ion Ratio Lower Upper

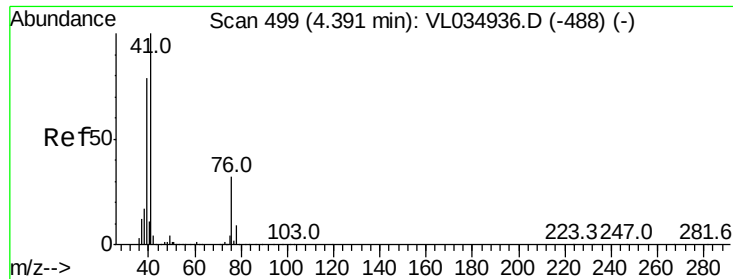
84 100

49 159.5 132.5 198.7

51 43.0 38.4 57.6

86 68.5 51.2 76.8

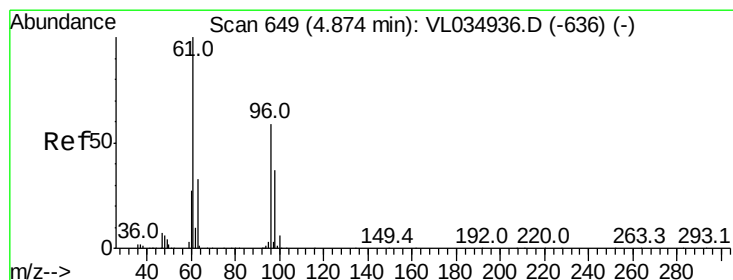
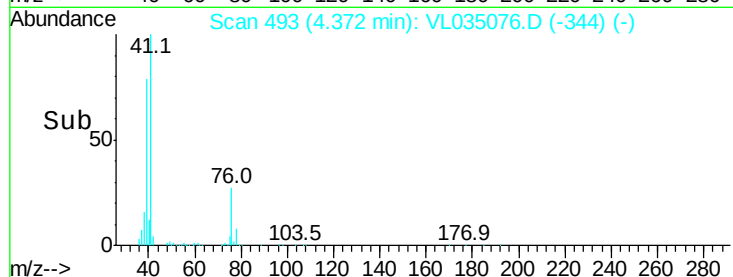
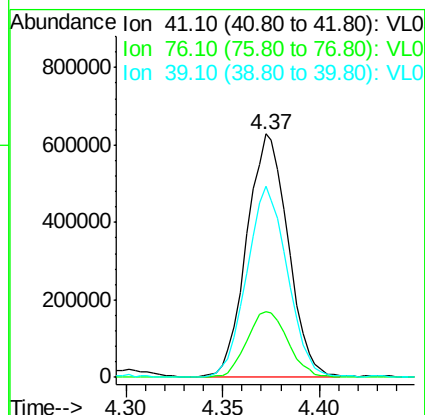
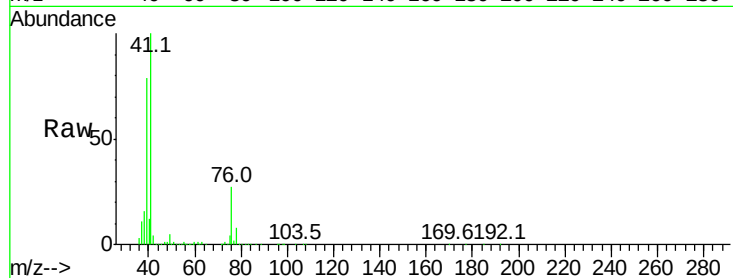




#21  
 Allyl Chloride  
 Concen: 10.776 ppbv  
 RT: 4.37 min Scan# 493  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

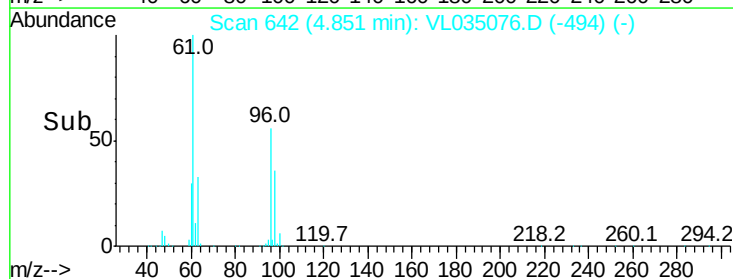
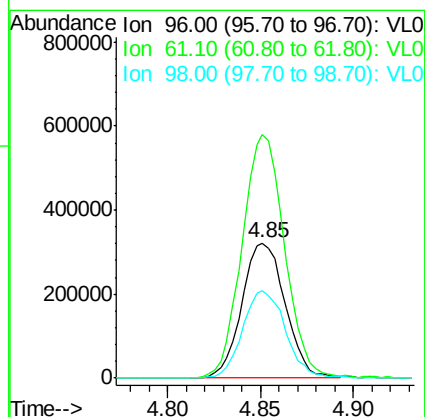
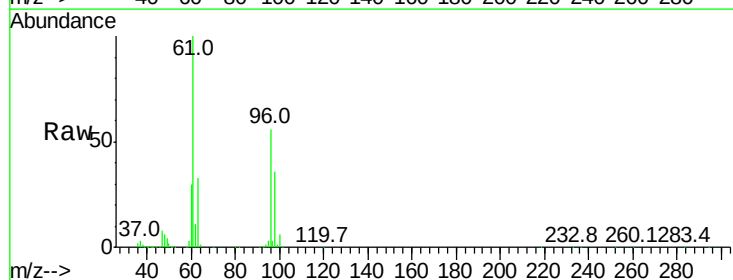
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

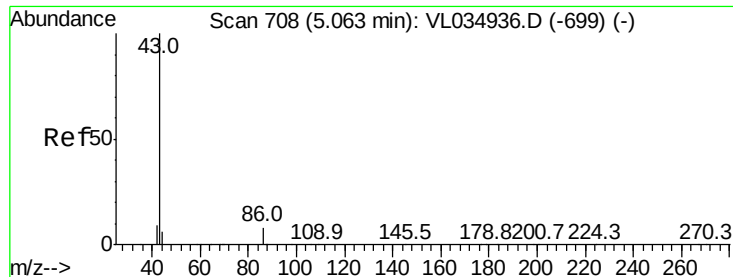
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 27.3  | 23.6  | 35.4  |
| 39      | 78.4  | 61.9  | 92.9  |



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.135 ppbv  
 RT: 4.85 min Scan# 642  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 179.9 | 135.3 | 202.9 |
| 98      | 64.5  | 50.4  | 75.6  |





#23

Vinyl Acetate

Concen: 11.130 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2142565

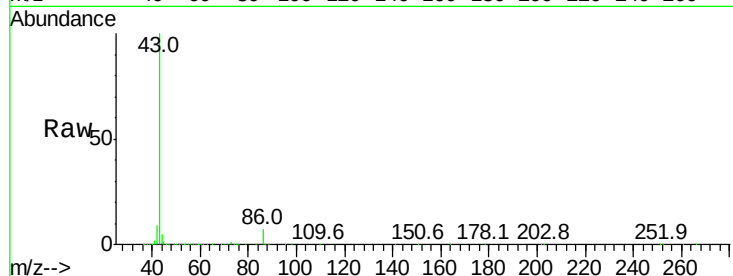
Ion Ratio Lower Upper

43 100

86 7.2 5.5 8.3

42 9.0 8.0 12.0

44 5.2 4.5 6.7

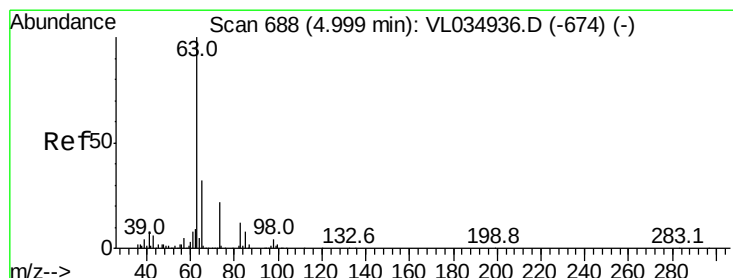
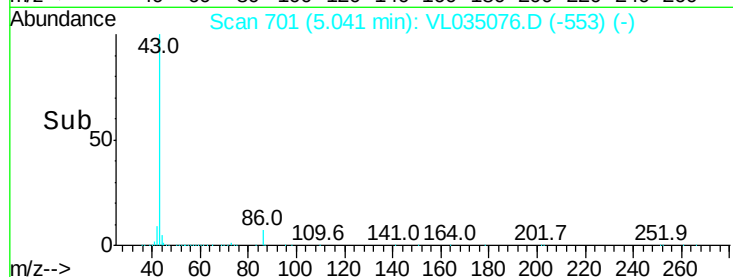
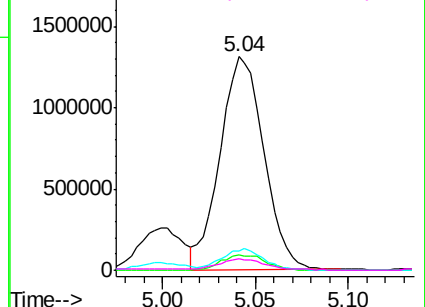


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.746 ppbv

RT: 4.98 min Scan# 682

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

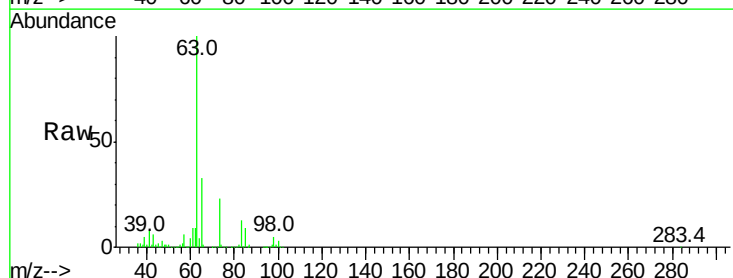
Tgt Ion: 63 Resp: 1445138

Ion Ratio Lower Upper

63 100

98 5.1 2.0 6.0

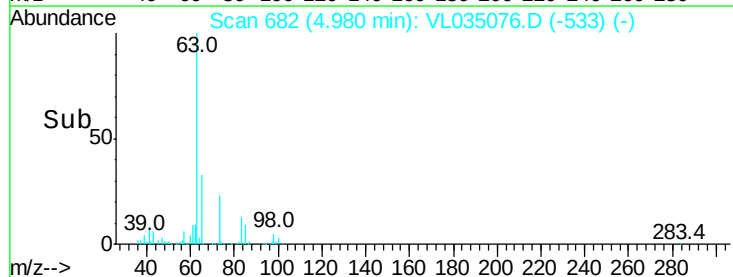
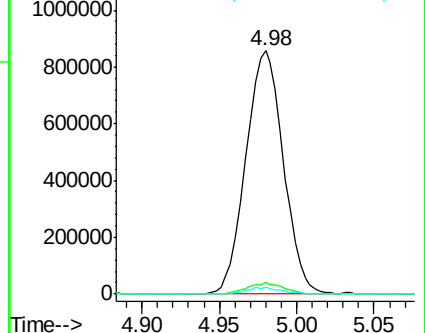
100 2.7 1.1 3.5



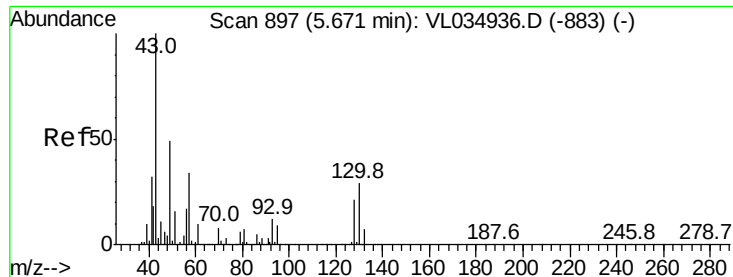
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





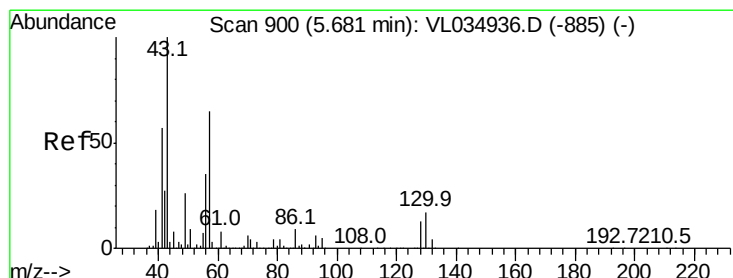
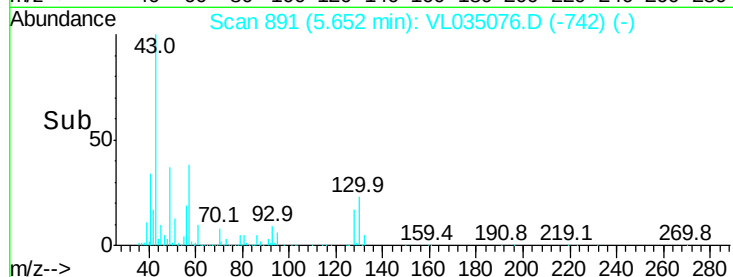
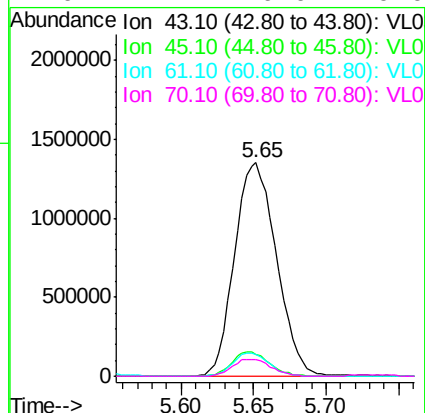
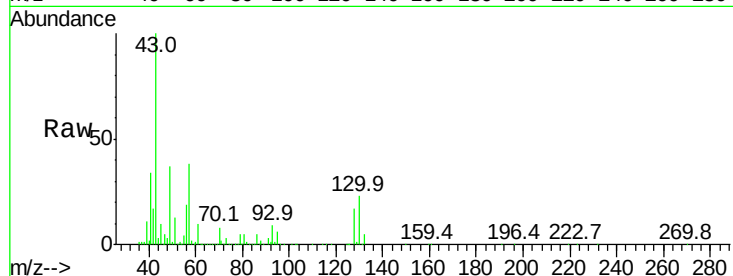


#25  
Ethyl Acetate  
Concen: 10.655 ppbv  
RT: 5.65 min Scan# 891  
Delta R.T. -0.02 min  
Lab File: VL035076.D  
Acq: 20 May 2020 11:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 43 Resp: 2717077

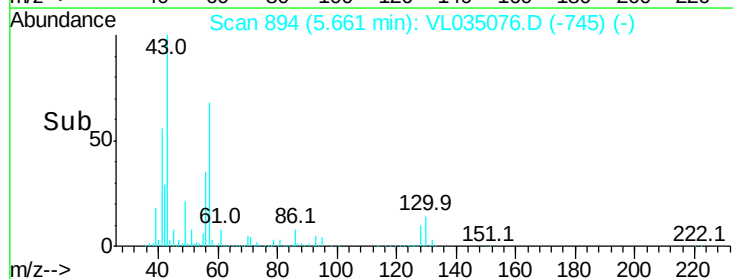
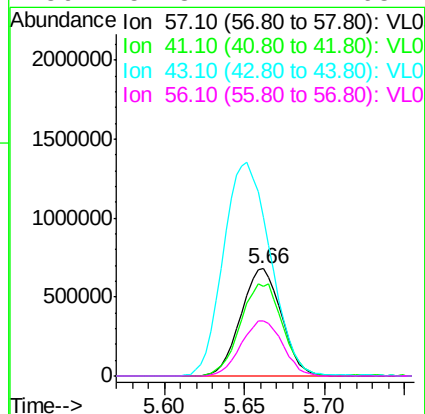
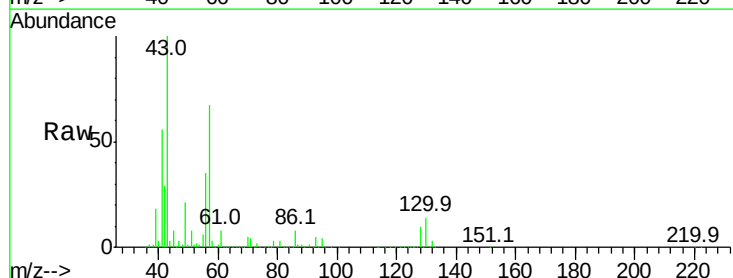
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.2  | 8.1   | 12.1  |
| 61  | 9.6   | 7.8   | 11.8  |
| 70  | 7.4   | 6.0   | 9.0   |

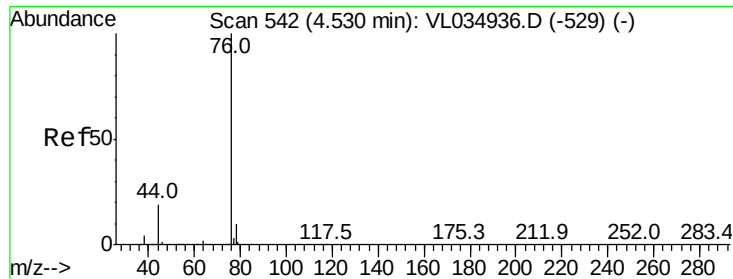


#26  
Hexane  
Concen: 10.652 ppbv  
RT: 5.66 min Scan# 894  
Delta R.T. -0.02 min  
Lab File: VL035076.D  
Acq: 20 May 2020 11:47

Tgt Ion: 57 Resp: 1177608

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 91.2  | 72.7  | 109.1 |
| 43  | 232.3 | 182.1 | 273.1 |
| 56  | 52.8  | 42.2  | 63.2  |





#27

Carbon Disulfide

Concen: 9.881 ppbv

RT: 4.51 min Scan# 537

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

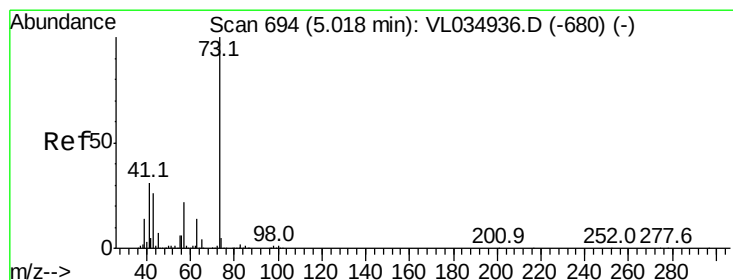
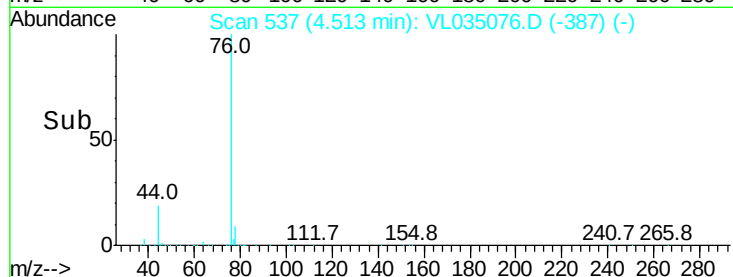
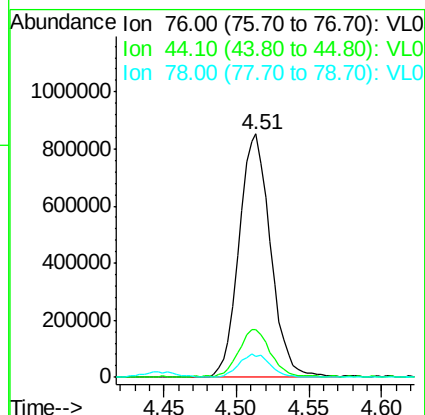
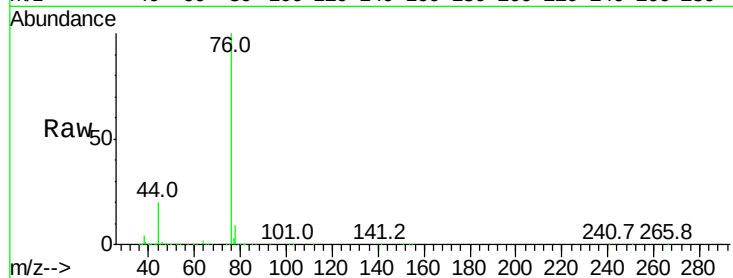
Tgt Ion: 76 Resp: 1287442

Ion Ratio Lower Upper

76 100

44 19.6 15.2 22.8

78 9.6 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 10.351 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.02 min

Lab File: VL035076.D

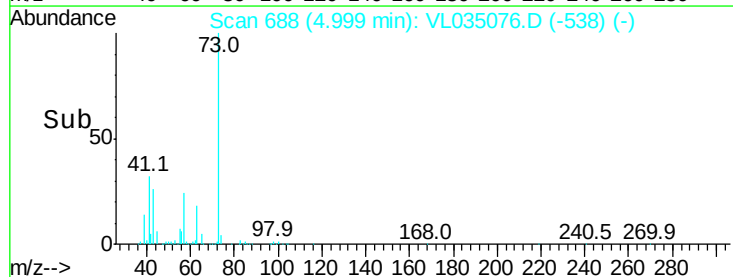
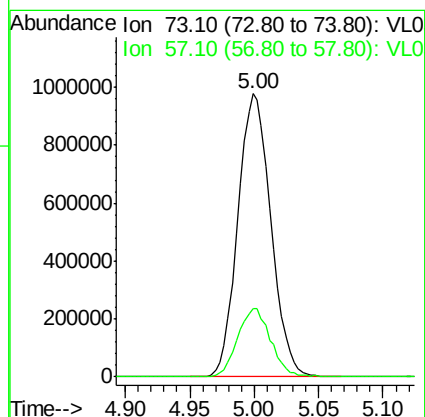
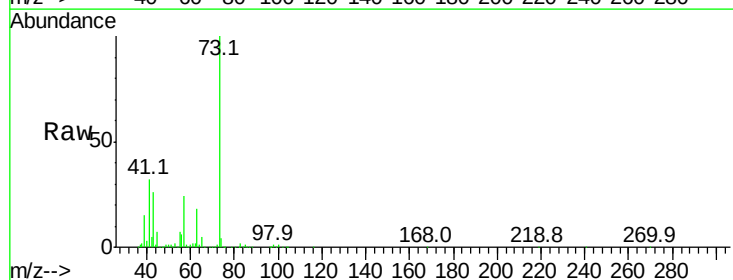
Acq: 20 May 2020 11:47

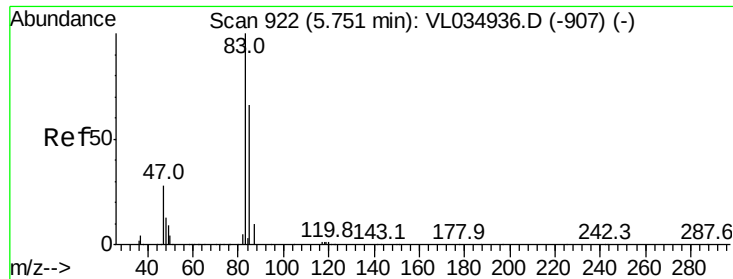
Tgt Ion: 73 Resp: 1742722

Ion Ratio Lower Upper

73 100

57 24.1 18.3 27.5

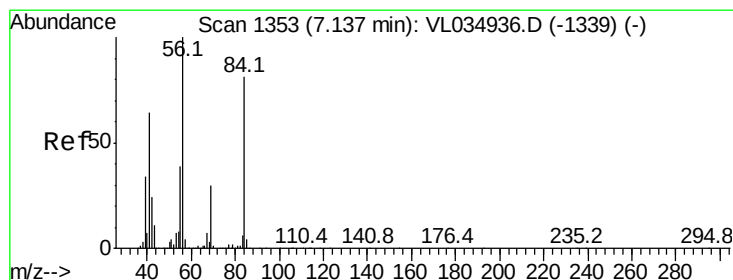
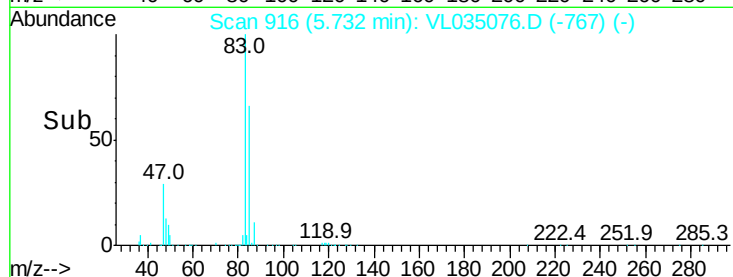
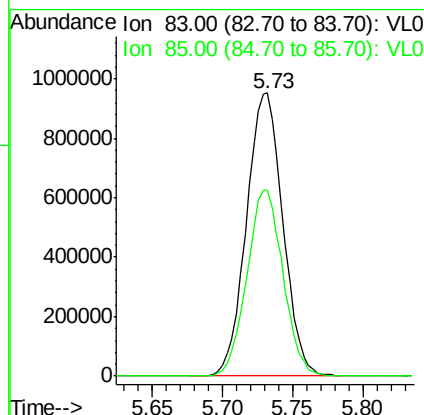
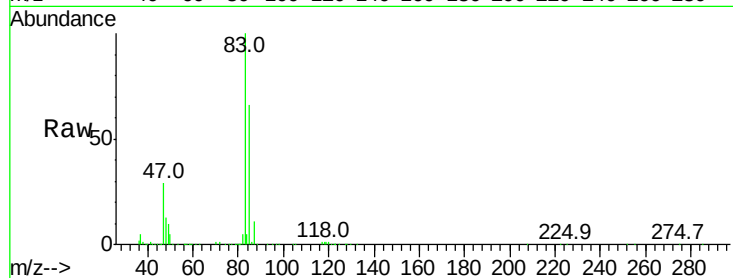




#29  
Chloroform  
Concen: 9.538 ppbv  
RT: 5.73 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: VL035076.D  
Acq: 20 May 2020 11:47

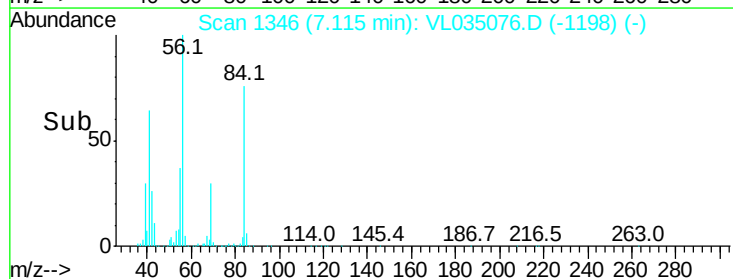
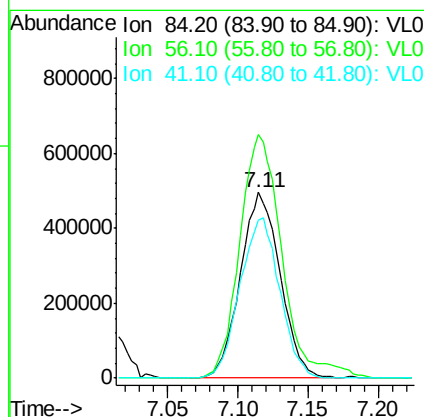
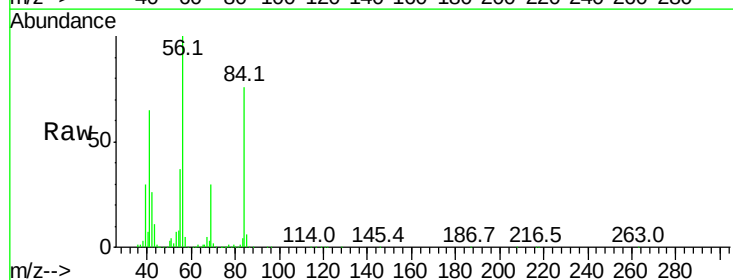
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

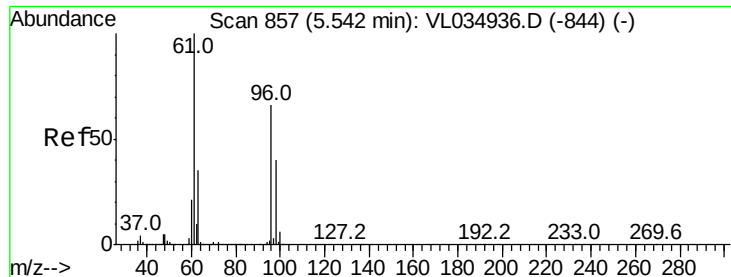
Tgt Ion: 83 Resp: 1725167  
Ion Ratio Lower Upper  
83 100  
85 65.6 53.0 79.6



#30  
Cyclohexane  
Concen: 11.511 ppbv  
RT: 7.11 min Scan# 1346  
Delta R.T. -0.02 min  
Lab File: VL035076.D  
Acq: 20 May 2020 11:47

Tgt Ion: 84 Resp: 982012  
Ion Ratio Lower Upper  
84 100  
56 139.8 111.4 167.2  
41 86.4 66.7 100.1



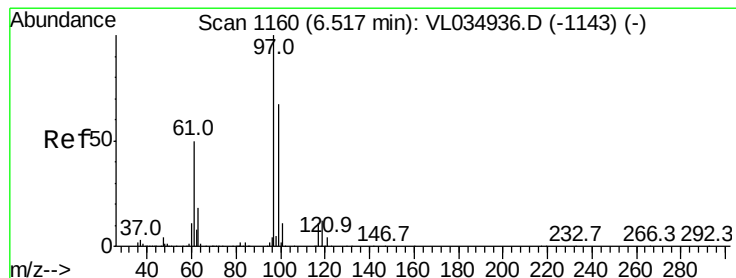
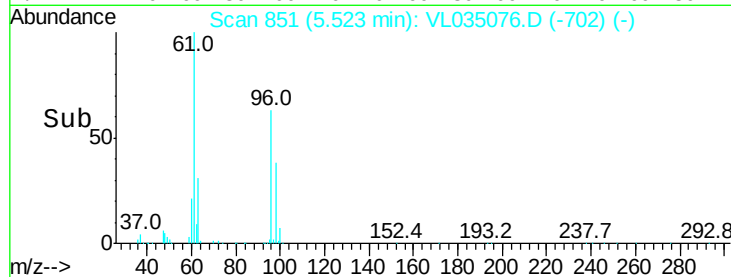
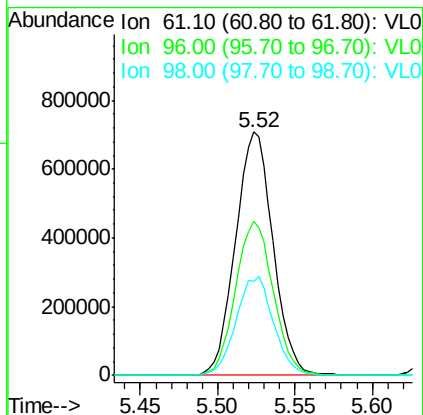
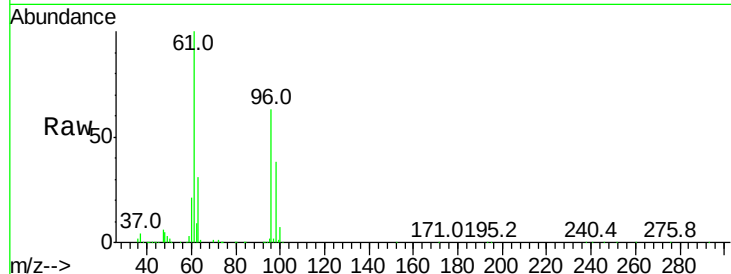


#31

cis-1,2-Dichloroethene  
 Concen: 11.069 ppbv  
 RT: 5.52 min Scan# 851  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

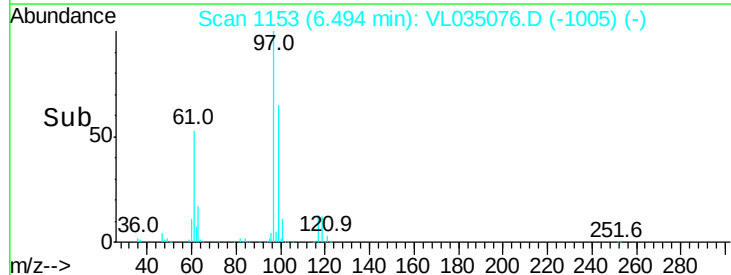
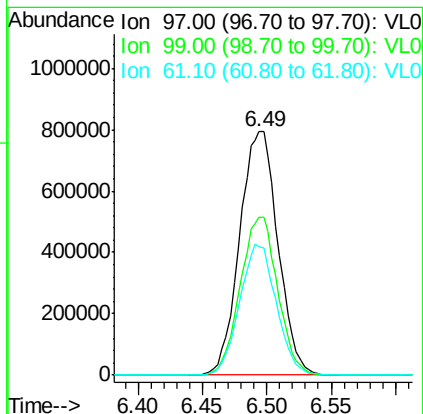
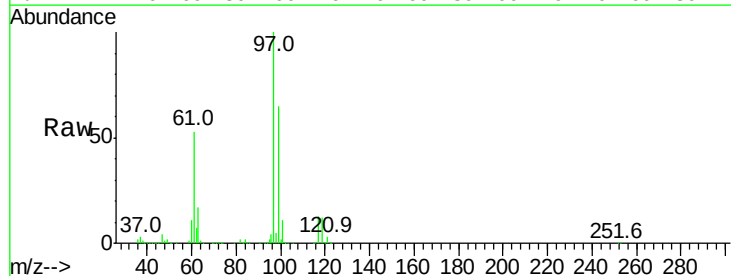
Tgt Ion: 61 Resp: 1193990  
 Ion Ratio Lower Upper  
 61 100  
 96 63.2 53.0 79.6  
 98 38.4 32.2 48.2

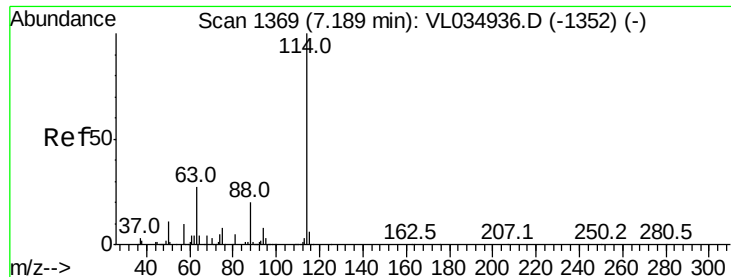


#32

1,1,1-Trichloroethane  
 Concen: 10.037 ppbv  
 RT: 6.49 min Scan# 1153  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

Tgt Ion: 97 Resp: 1639563  
 Ion Ratio Lower Upper  
 97 100  
 99 63.7 52.1 78.1  
 61 51.6 41.8 62.8

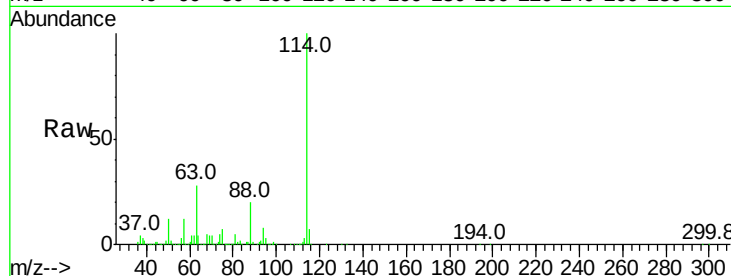




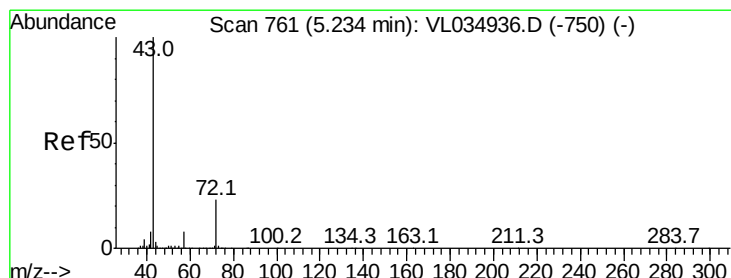
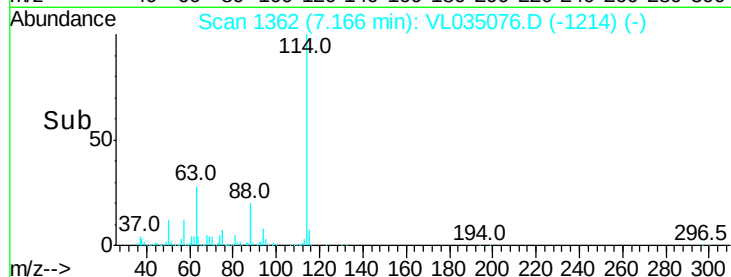
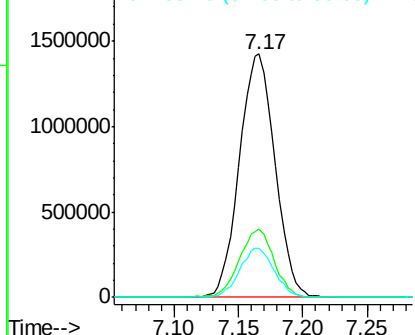
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1362  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion:114 Resp: 2737631  
 Ion Ratio Lower Upper  
 114 100  
 63 27.7 22.2 33.4  
 88 19.6 15.5 23.3

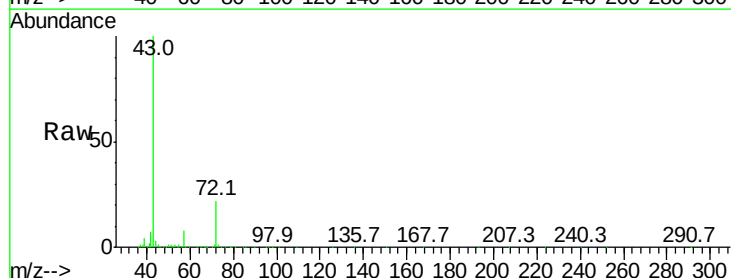


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

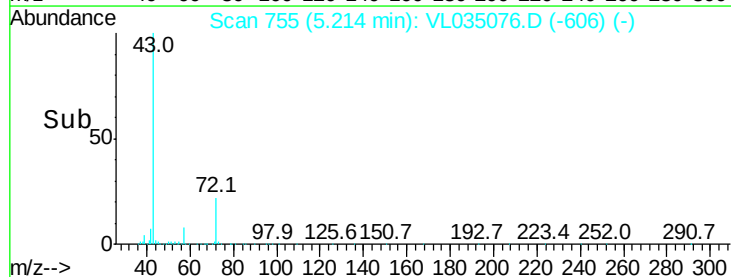
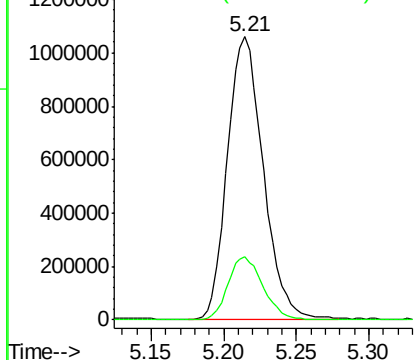


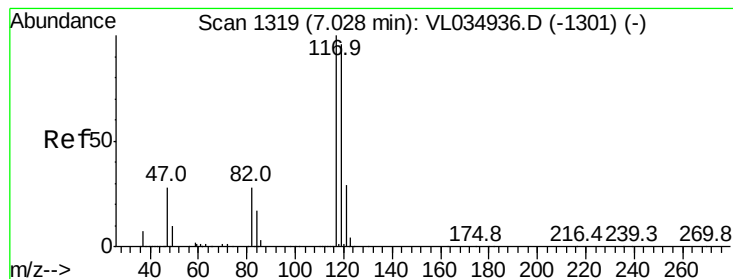
#34  
 2-Butanone  
 Concen: 10.682 ppbv  
 RT: 5.21 min Scan# 755  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

Tgt Ion: 43 Resp: 1817584  
 Ion Ratio Lower Upper  
 43 100  
 72 21.8 18.0 27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.522 ppbv

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

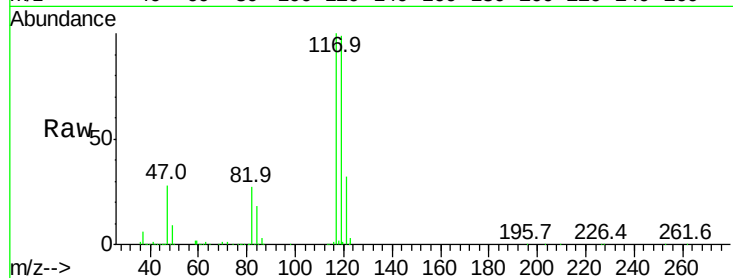
Tgt Ion:117 Resp: 1645361

Ion Ratio Lower Upper

117 100

119 99.4 77.0 115.6

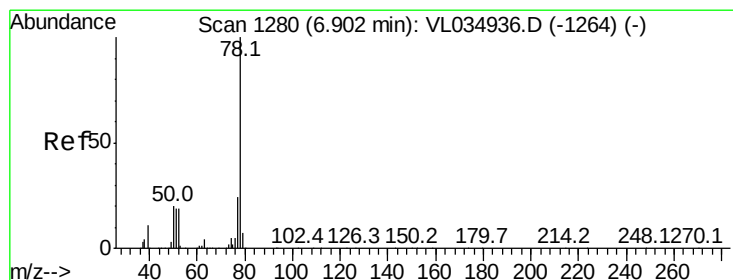
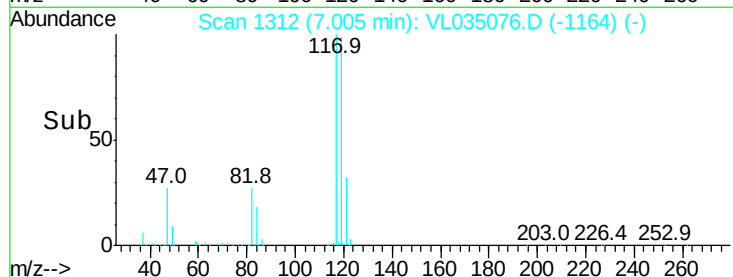
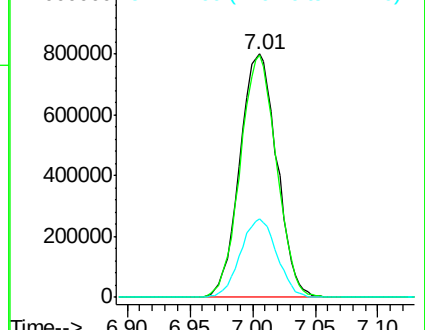
121 32.5 23.0 34.6



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: 10.451 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

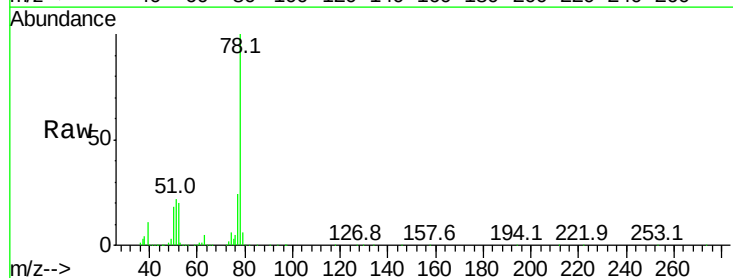
Tgt Ion: 78 Resp: 2358941

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.6

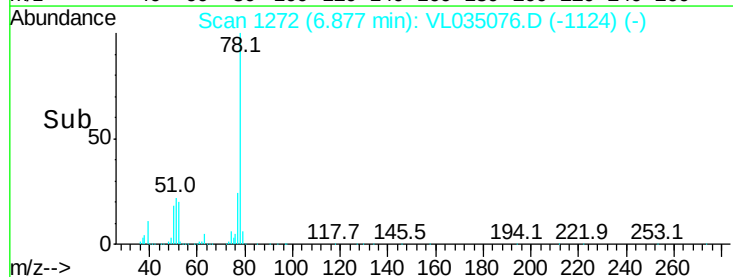
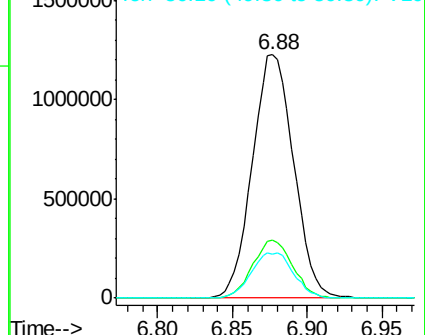
50 18.3 15.8 23.8

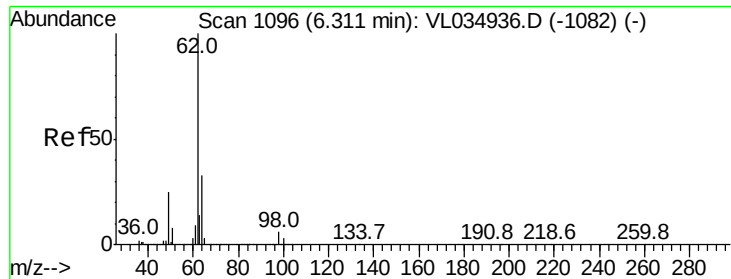


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

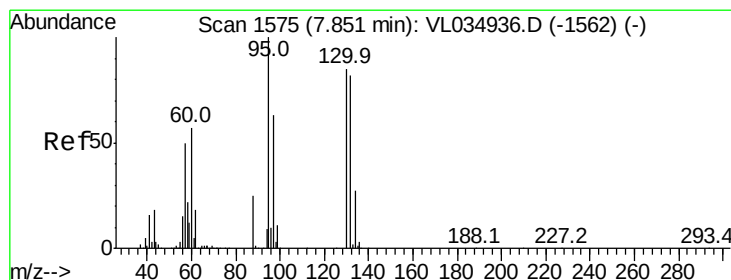
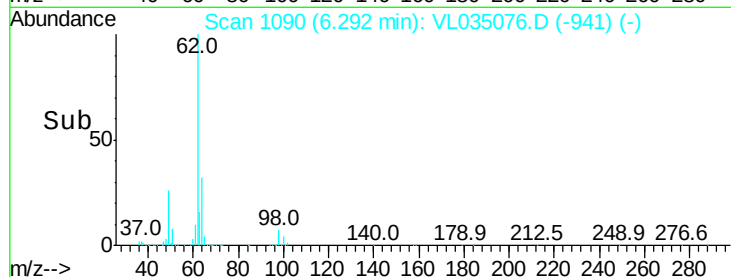
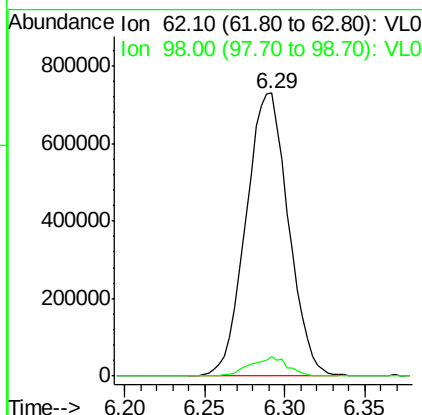
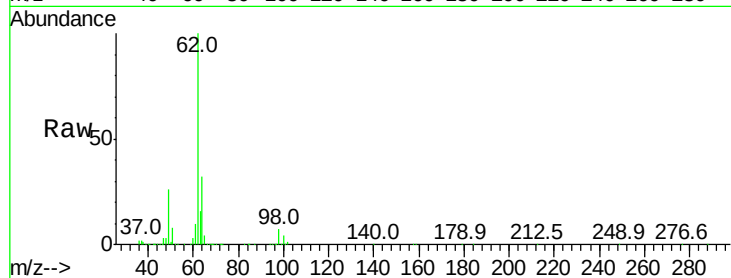




#37  
 1,2-Dichloroethane  
 Concen: 9.561 ppbv  
 RT: 6.29 min Scan# 1090  
 Delta R.T. -0.02 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion: 62 Resp: 1331133  
 Ion Ratio Lower Upper  
 62 100  
 98 6.4 4.8 7.2



#38  
 Trichloroethene  
 Concen: 10.126 ppbv  
 RT: 7.83 min Scan# 1567  
 Delta R.T. -0.03 min  
 Lab File: VL035076.D  
 Acq: 20 May 2020 11:47

Tgt Ion: 130 Resp: 885384  
 Ion Ratio Lower Upper  
 130 100  
 95 117.6 93.4 140.0  
 132 91.9 76.4 114.6  
 97 73.5 58.5 87.7

