

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121620\  
 Data File : VL036177.D  
 Acq On : 16 Dec 2020 21:53  
 Operator : SY/AP  
 Sample : L5061-01DUP  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Dec 17 03:41:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020  
 QLast Update : Mon Dec 07 16:56:49 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1308284  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2545905  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2256745  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 1992858  | 11.12    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 111.20% |

| Target Compounds               |       |     |         |         | Ovalue    |
|--------------------------------|-------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane     | 3.04  | 85  | 260792  | 1.710   | ppbv 89   |
| 3) Chlorodifluoromethane       | 2.98  | 51  | 1116975 | 7.483   | ppbv 98   |
| 4) Chloromethane               | 3.13  | 50  | 30178   | 0.412   | ppbv # 84 |
| 5) Vinyl Chloride              | 3.25  | 62  | 2600    | 0.032   | ppbv # 35 |
| 9) Propene                     | 3.01  | 41  | 43397   | 0.580   | ppbv 99   |
| 11) Trichlorofluoromethane     | 3.95  | 101 | 3426469 | 19.115  | ppbv 97   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49  | 101 | 42082   | 0.346   | ppbv # 14 |
| 13) Ethanol                    | 3.61  | 45  | 85830   | 8.326   | ppbv 65   |
| 15) Acetone                    | 3.87  | 43  | 306776  | 1.951   | ppbv # 84 |
| 16) 1,3-Butadiene              | 3.31  | 39  | 5104    | 0.064   | ppbv # 11 |
| 17) tert-Butyl alcohol         | 4.29  | 59  | 7914    | 0.052   | ppbv # 71 |
| 18) 1,1-Dichloroethene         | 4.29  | 96  | 210876  | 3.901   | ppbv 86   |
| 20) Methylene Chloride         | 4.34  | 84  | 270147  | 4.193   | ppbv 95   |
| 22) trans-1,2-Dichloroethene   | 4.89  | 96  | 48551   | 0.897   | ppbv # 76 |
| 23) Vinyl Acetate              | 5.05  | 43  | 145645  | 0.696   | ppbv # 66 |
| 24) 1,1-Dichloroethane         | 5.01  | 63  | 244637  | 1.662   | ppbv # 97 |
| 25) Ethyl Acetate              | 5.69  | 43  | 288533  | 0.919   | ppbv # 86 |
| 26) Hexane                     | 5.69  | 57  | 395677  | 2.799   | ppbv # 40 |
| 28) Methyl tert-Butyl Ether    | 5.04  | 73  | 373092  | 1.856   | ppbv 95   |
| 29) Chloroform                 | 5.75  | 83  | 174642  | 0.941   | ppbv 97   |
| 30) Cyclohexane                | 7.13  | 84  | 4543    | 0.044   | ppbv # 1  |
| 31) cis-1,2-Dichloroethene     | 5.55  | 61  | 2555853 | 19.888  | ppbv 92   |
| 32) 1,1,1-Trichloroethane      | 6.51  | 97  | 97071   | 0.507   | ppbv # 87 |
| 34) 2-Butanone                 | 5.26  | 43  | 10874   | 0.064   | ppbv # 28 |
| 35) Carbon Tetrachloride       | 7.02  | 117 | 74237   | 0.500   | ppbv 93   |
| 36) Benzene                    | 6.90  | 78  | 77464   | 0.359   | ppbv 94   |
| 37) 1,2-Dichloroethane         | 6.31  | 62  | 16727   | 0.134   | ppbv # 68 |
| 38) Trichloroethene            | 7.84  | 130 | 8879143 | 110.089 | ppbv 95   |
| 39) 1,2-Dichloropropane        | 7.84  | 63  | 22709   | 0.267   | ppbv # 1  |
| 42) Bromodichloromethane       | 7.84  | 83  | 86922   | 0.522   | ppbv 97   |
| 44) 2,2,4-Trimethylpentane     | 7.87  | 57  | 21487   | 0.055   | ppbv # 41 |
| 47) 1,1,2-Trichloroethane      | 9.49  | 97  | 4066    | 0.050   | ppbv # 47 |
| 52) Tetrachloroethene          | 11.24 | 164 | 7527067 | 96.371  | ppbv 91   |
| 53) Toluene                    | 9.81  | 91  | 33493   | 0.138   | ppbv # 21 |
| 59) m/p-Xylene                 | 13.01 | 91  | 8315    | 0.032   | ppbv # 1  |
| 60) o-Xylene                   | 13.70 | 91  | 11507   | 0.047   | ppbv 68   |
| 62) Isopropylbenzene           | 14.67 | 105 | 14798   | 0.041   | ppbv # 1  |
| 74) 1,2,4-Trimethylbenzene     | 16.77 | 105 | 10617   | 0.042   | ppbv # 81 |
| 76) 1,4-Dichlorobenzene        | 17.15 | 146 | 6671    | 0.051   | ppbv # 1  |

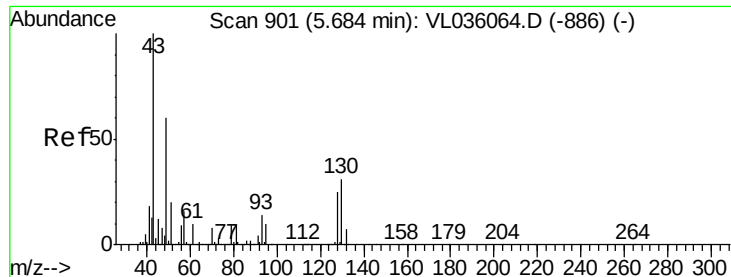
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121620\  
Data File : VL036177.D  
Acq On : 16 Dec 2020 21:53  
Operator : SY/AP  
Sample : L5061-01DUP  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Dec 17 03:41:38 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020  
QLast Update : Mon Dec 07 16:56:49 2020  
Response via : Initial Calibration

| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

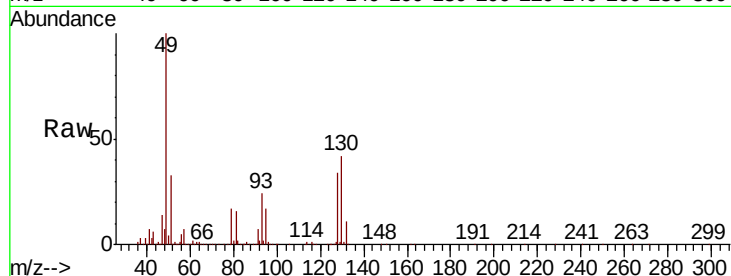
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 49 Resp: 1308284

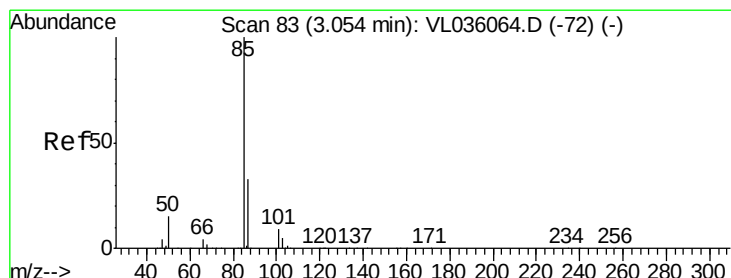
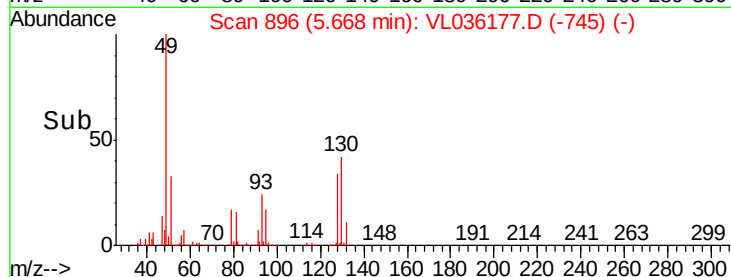
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 36.2  | 21.1  | 63.1  |
| 130 | 45.2  | 27.1  | 81.3  |



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: 1.710 ppbv

RT: 3.04 min Scan# 79

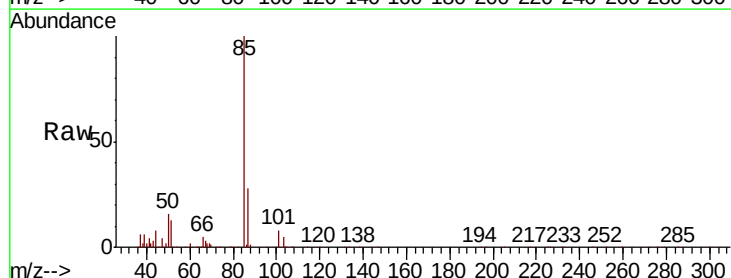
Delta R.T. -0.01 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

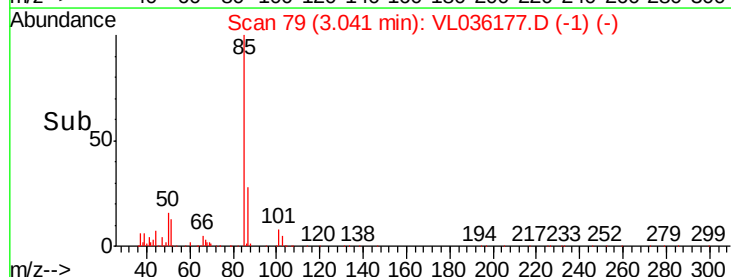
Tgt Ion: 85 Resp: 260792

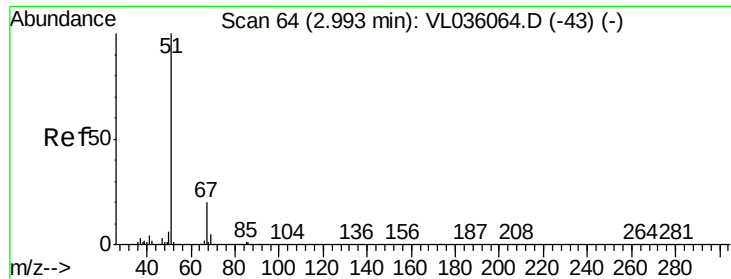
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 27.1  | 26.5  | 39.7  |



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

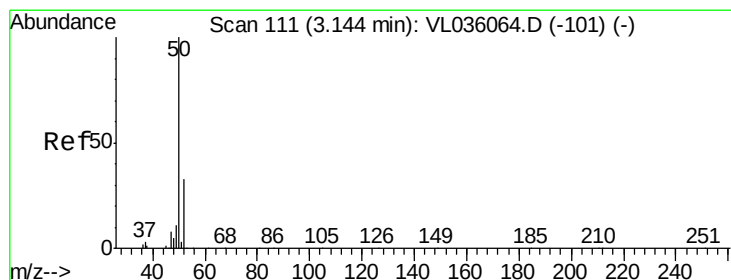
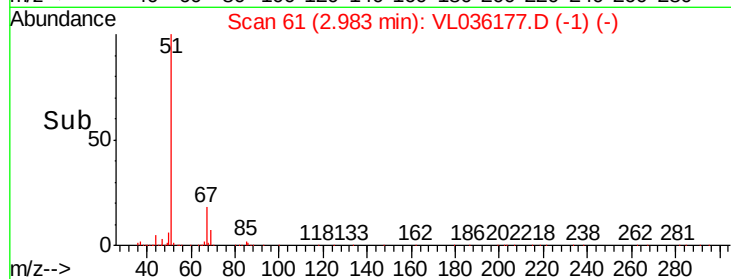
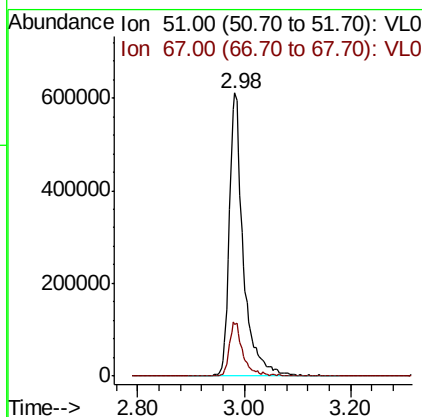
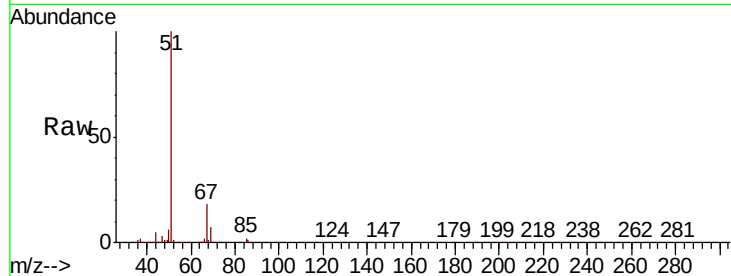




#3  
 Chlorodifluoromethane  
 Concen: 7.483 ppbv  
 RT: 2.98 min Scan# 61  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

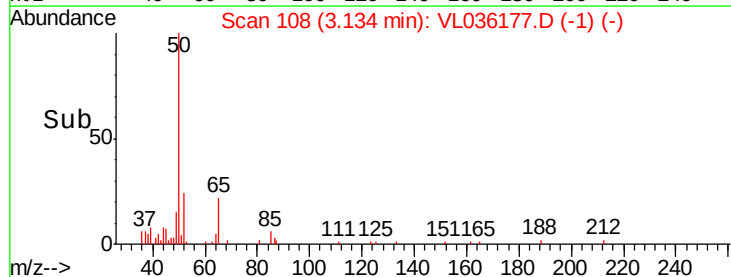
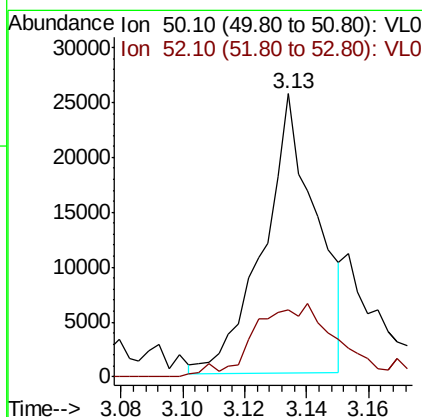
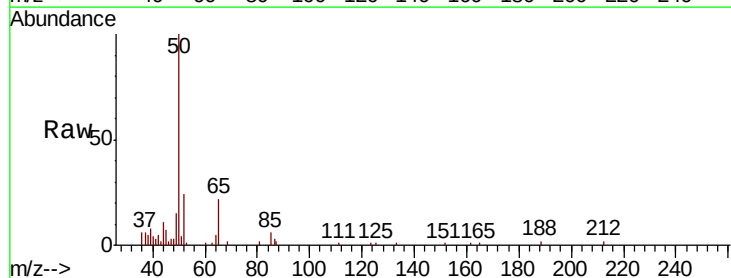
Instrument :  
 MSVOA\_L  
 ClientSampleId :

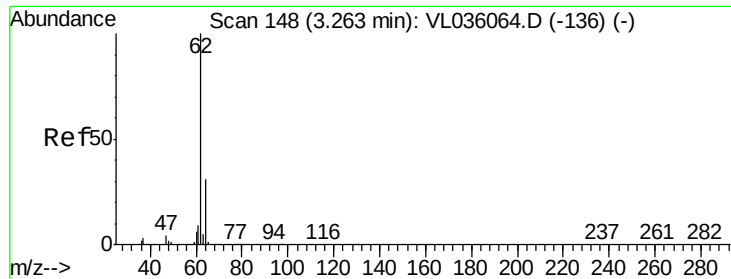
Tot Ion: 51 Resp: 1116975  
 Ion Ratio Lower Upper  
 51 100  
 67 18.8 14.3 21.5



#4  
 Chloromethane  
 Concen: 0.412 ppbv  
 RT: 3.13 min Scan# 108  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Tgt Ion: 50 Resp: 30178  
 Ion Ratio Lower Upper  
 50 100  
 52 23.8 26.1 39.1#





#5

Vinyl Chloride

Concen: 0.032 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.01 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

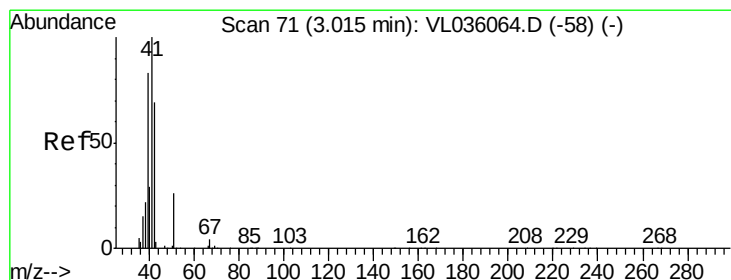
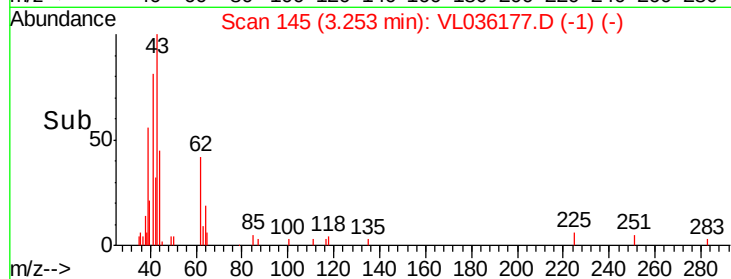
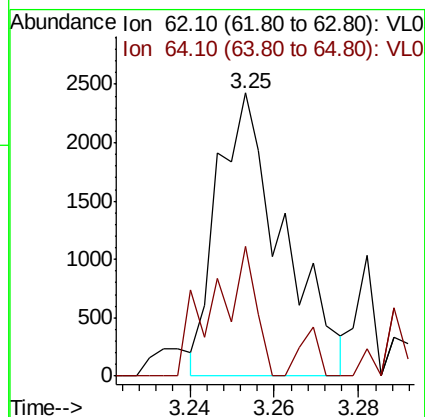
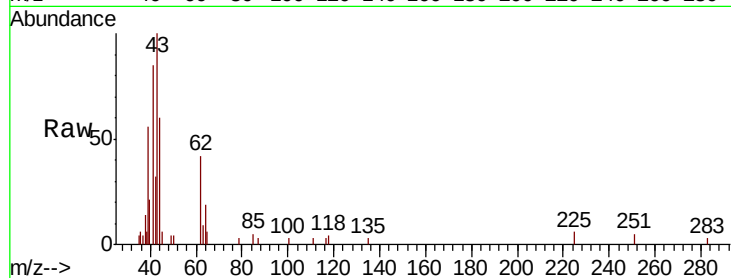
ClientSampleId :

Tot Ion: 62 Resp: 2600

Ion Ratio Lower Upper

62 100

64 66.3 24.5 36.7#



#9

Propene

Concen: 0.580 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL036177.D

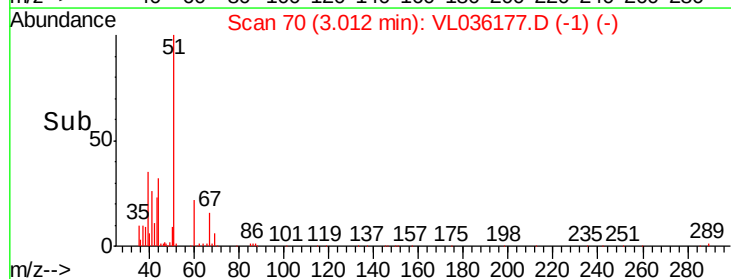
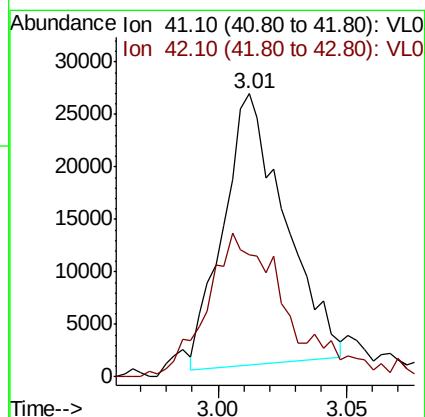
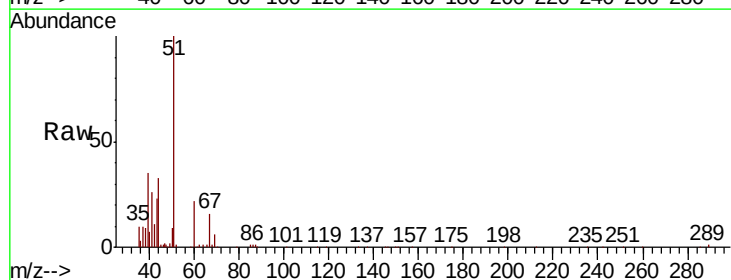
Acq: 16 Dec 2020 21:53

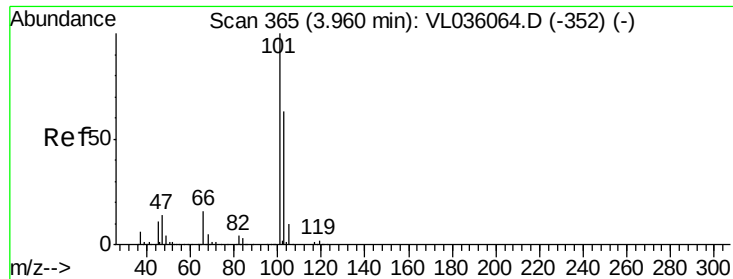
Tgt Ion: 41 Resp: 43397

Ion Ratio Lower Upper

41 100

42 70.1 57.0 85.6

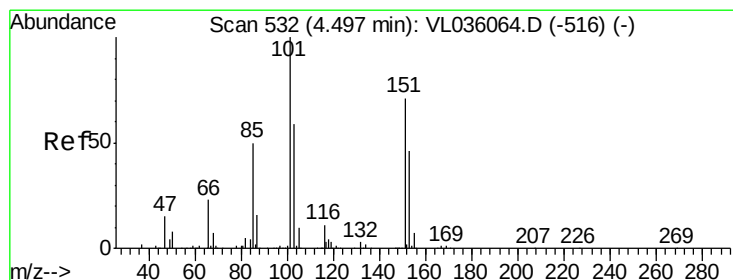
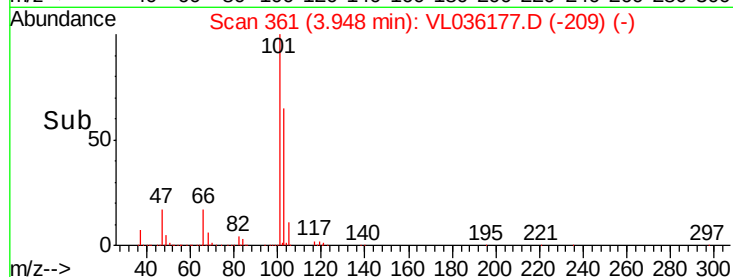
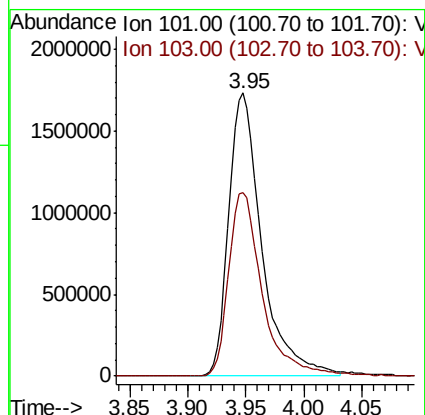
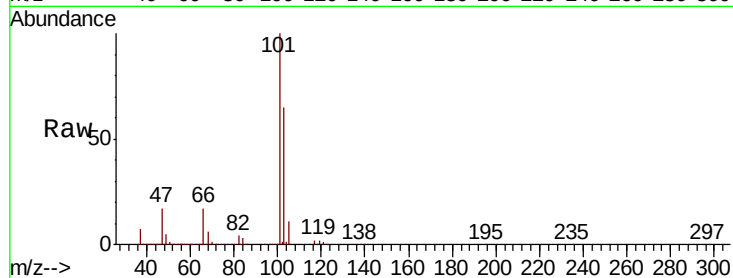




#11  
 Trichlorofluoromethane  
 Concen: 19.115 ppbv  
 RT: 3.95 min Scan# 361  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

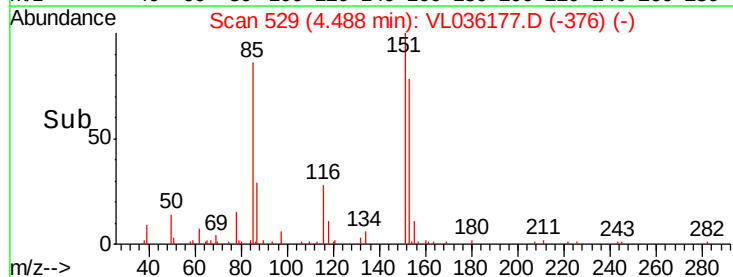
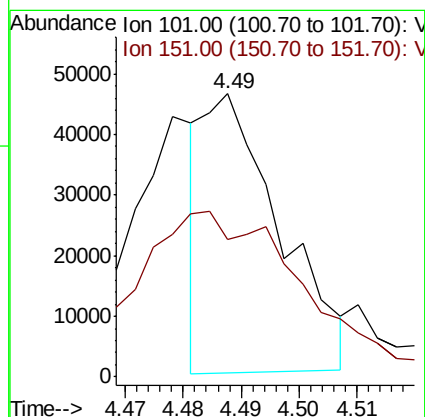
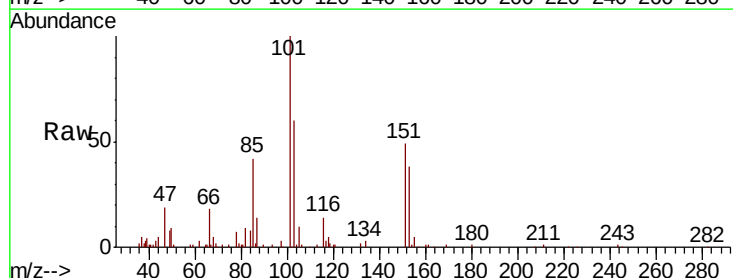
Instrument :  
 MSVOA\_L  
 ClientSampleId :

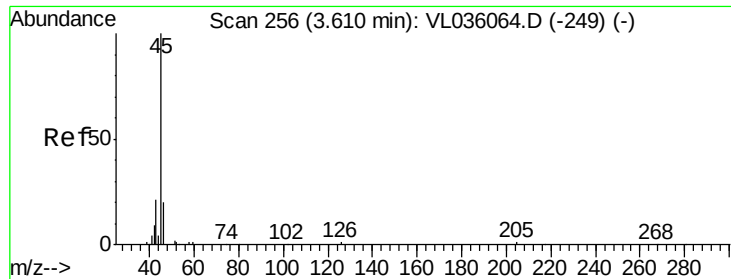
Tot Ion:101 Resp: 3426469  
 Ion Ratio Lower Upper  
 101 100  
 103 64.9 50.3 75.5



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.346 ppbv  
 RT: 4.49 min Scan# 529  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Tgt Ion:101 Resp: 42082  
 Ion Ratio Lower Upper  
 101 100  
 151 147.1 59.3 88.9#

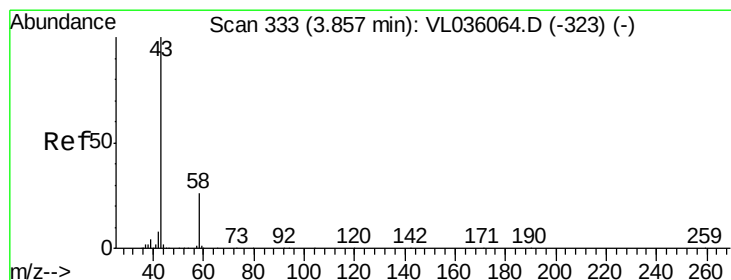
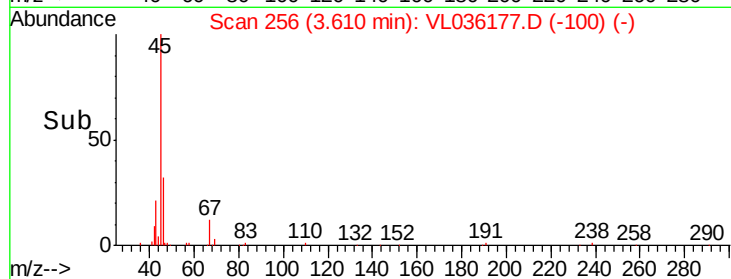
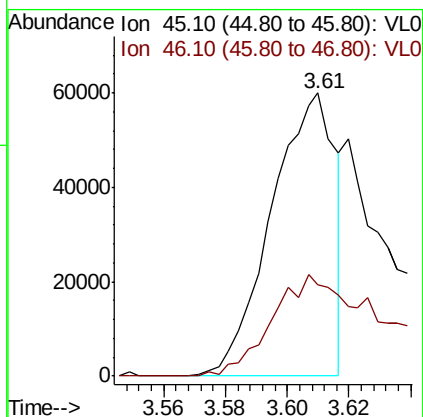
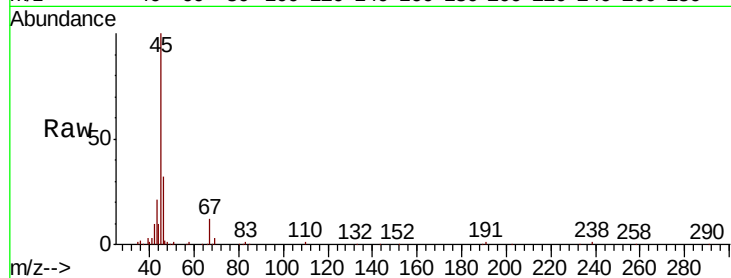




#13  
Ethanol  
Concen: 8.326 ppbv  
RT: 3.61 min Scan# 256  
Delta R.T. 0.00 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

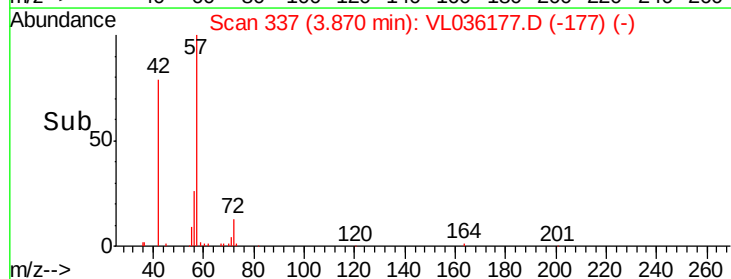
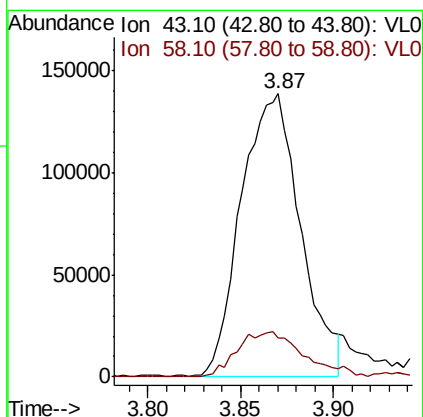
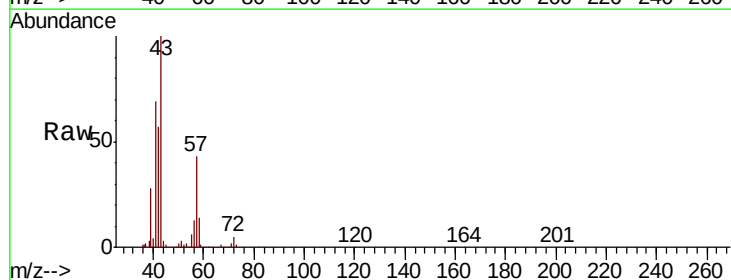
Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 45 Resp: 85830  
Ion Ratio Lower Upper  
45 100  
46 70.6 19.0 75.8

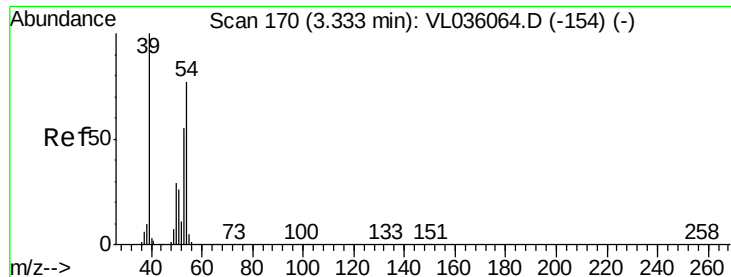


#15  
Acetone  
Concen: 1.951 ppbv  
RT: 3.87 min Scan# 337  
Delta R.T. 0.01 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

Tgt Ion: 43 Resp: 306776  
Ion Ratio Lower Upper  
43 100  
58 17.9 20.9 31.3#







#16

1,3-Butadiene

Concen: 0.064 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

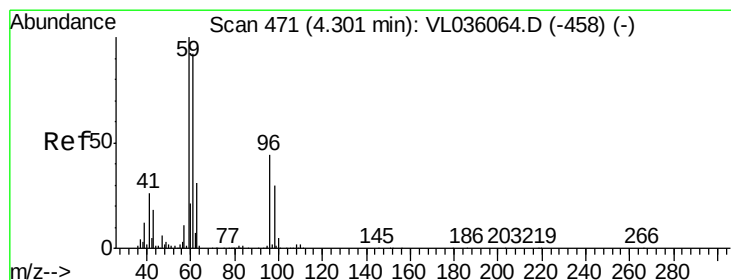
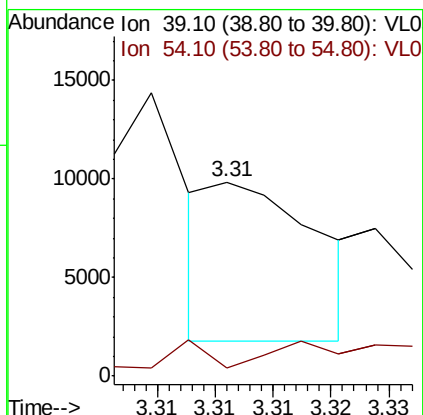
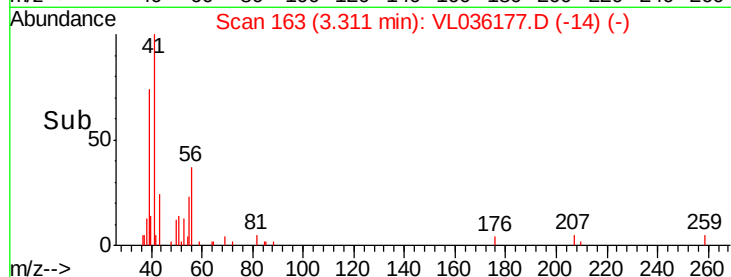
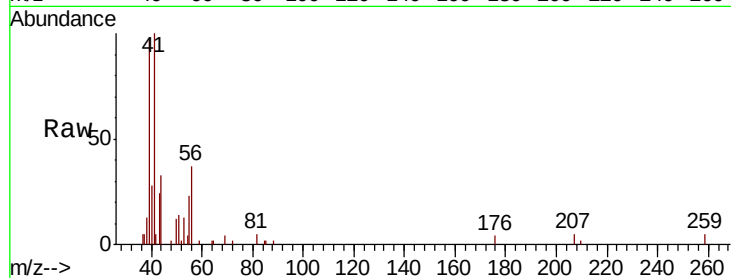
ClientSampleId :

Tot Ion: 39 Resp: 5104

Ion Ratio Lower Upper

39 100

54 0.0 62.1 93.1#



#17

tert-Butyl alcohol

Concen: 0.052 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.01 min

Lab File: VL036177.D

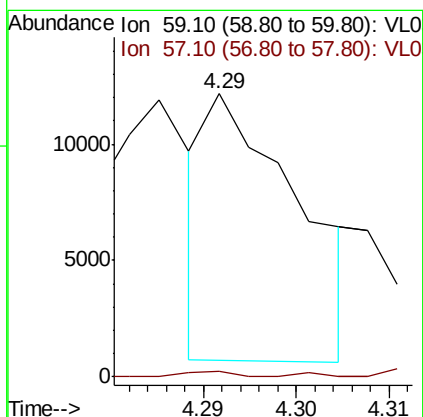
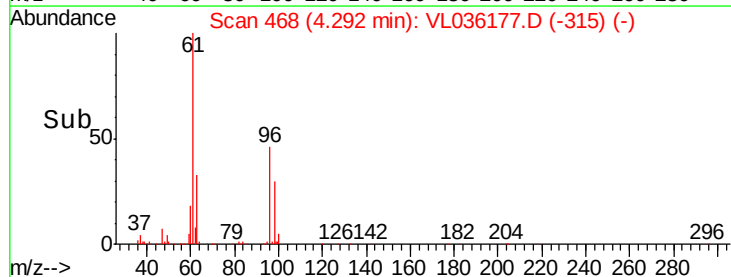
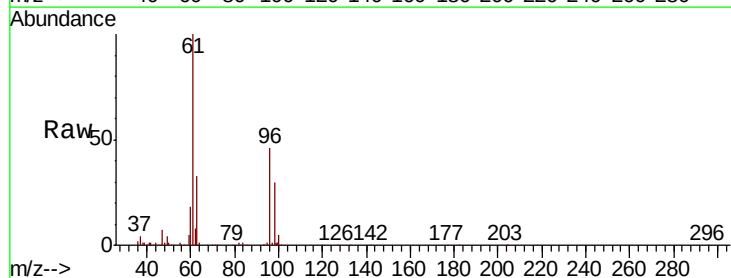
Acq: 16 Dec 2020 21:53

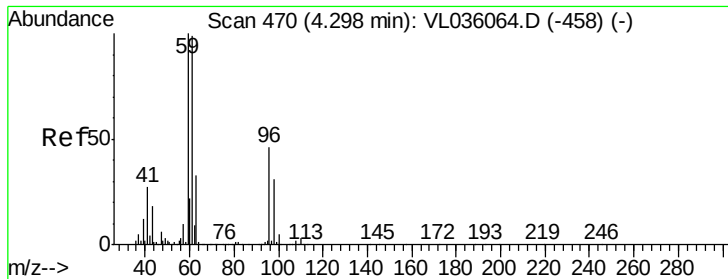
Tgt Ion: 59 Resp: 7914

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#

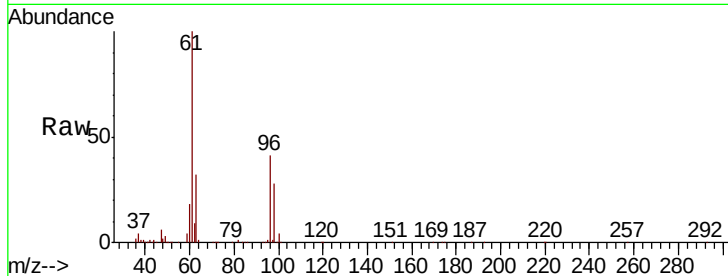




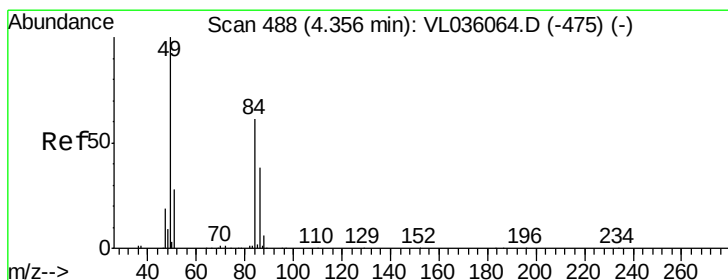
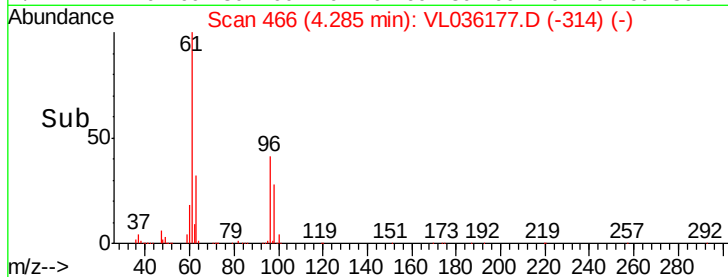
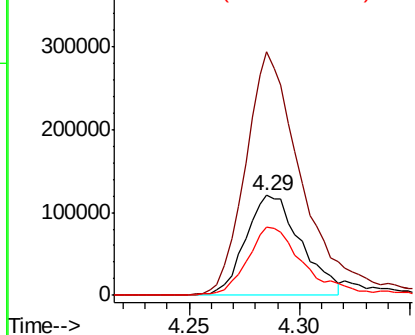
#18  
 1,1-Dichloroethene  
 Concen: 3.901 ppbv  
 RT: 4.29 min Scan# 466  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Instrument :  
 MSVOA\_L  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 243.7 | 171.4 | 257.2 |
| 98      | 68.2  | 54.2  | 81.2  |

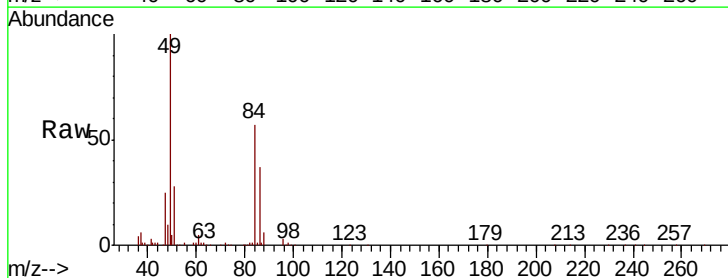


Abundance Ion 96.00 (95.70 to 96.70): VL0  
 Ion 61.10 (60.80 to 61.80): VL0  
 Ion 98.00 (97.70 to 98.70): VL0

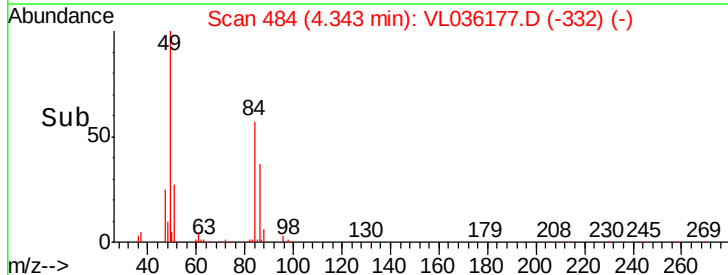
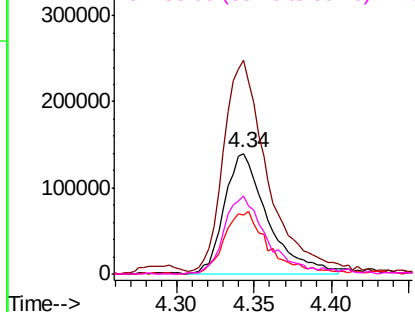


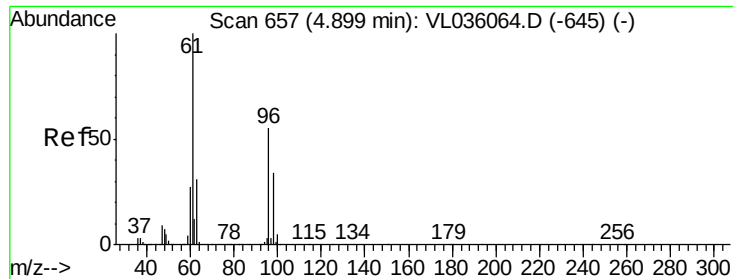
#20  
 Methylene Chloride  
 Concen: 4.193 ppbv  
 RT: 4.34 min Scan# 484  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 174.9 | 133.0 | 199.4 |
| 51      | 48.5  | 38.9  | 58.3  |
| 86      | 64.1  | 48.8  | 73.2  |



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





#22

trans-1,2-Dichloroethene

Concen: 0.897 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.01 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

ClientSampleId :

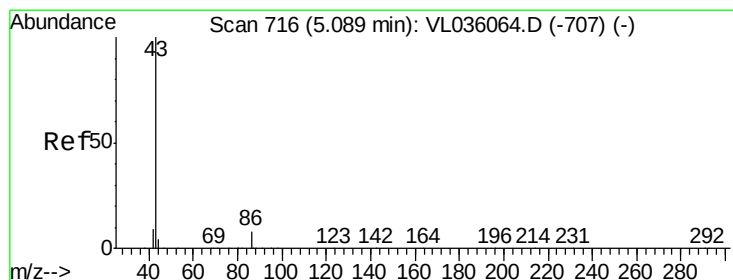
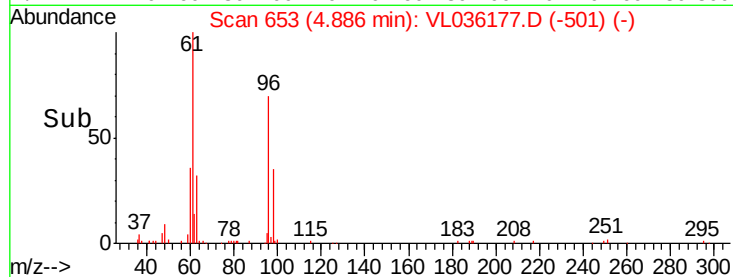
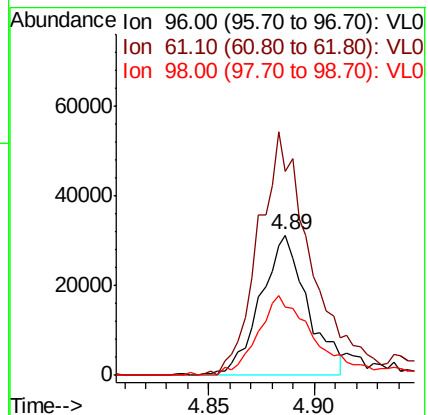
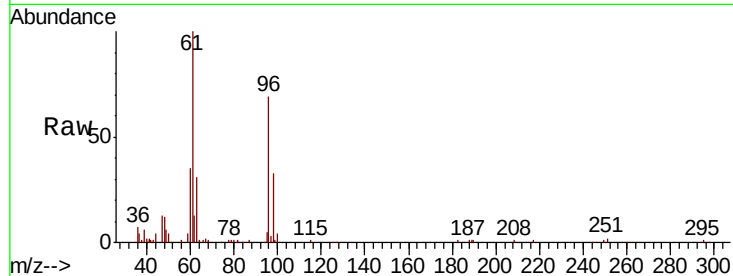
Tot Ion: 96 Resp: 48551

Ion Ratio Lower Upper

96 100

61 145.8 145.7 218.5

98 47.1 49.2 73.8#



#23

Vinyl Acetate

Concen: 0.696 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.04 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Tgt Ion: 43 Resp: 145645

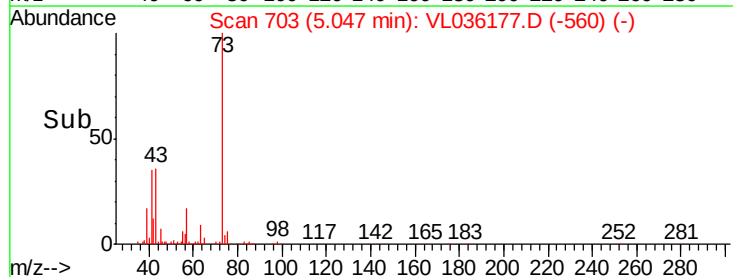
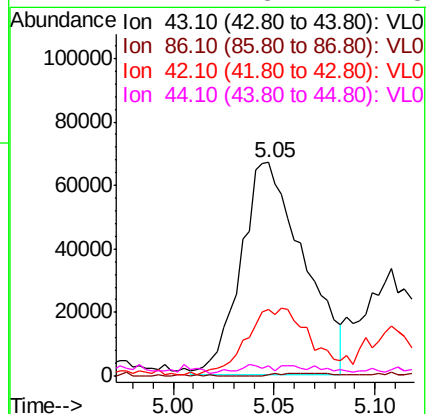
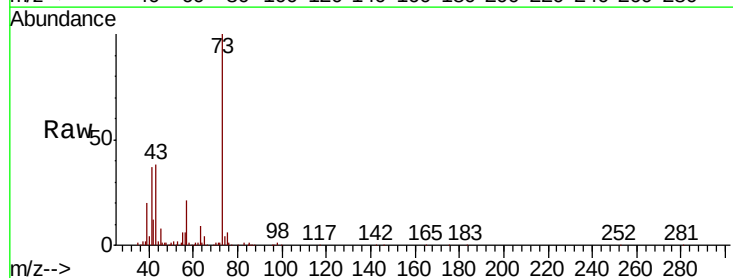
Ion Ratio Lower Upper

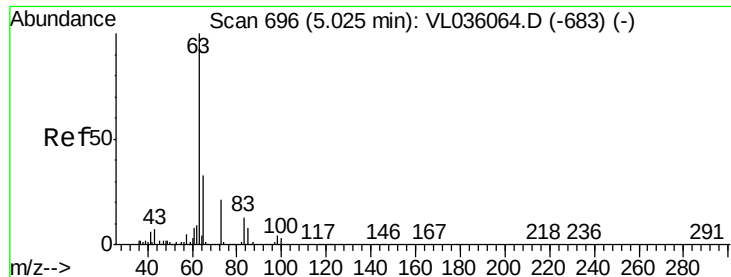
43 100

86 0.2 5.0 7.4#

42 30.5 7.8 11.6#

44 1.7 3.2 4.8#





#24

1,1-Dichloroethane

Concen: 1.662 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.01 min

Lab File: VL036177.D

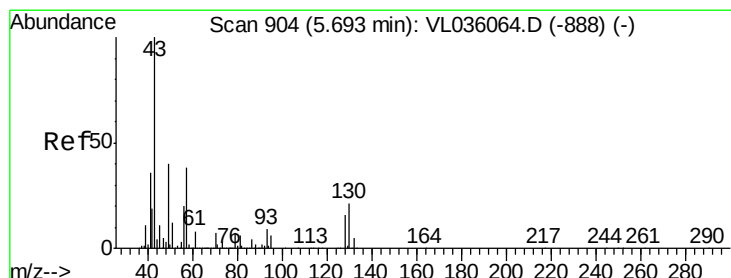
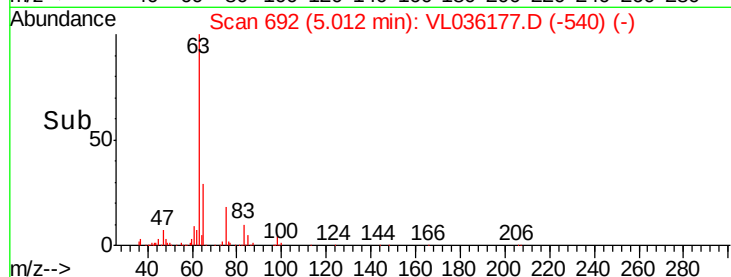
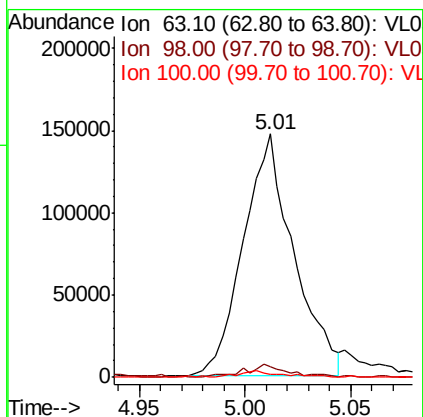
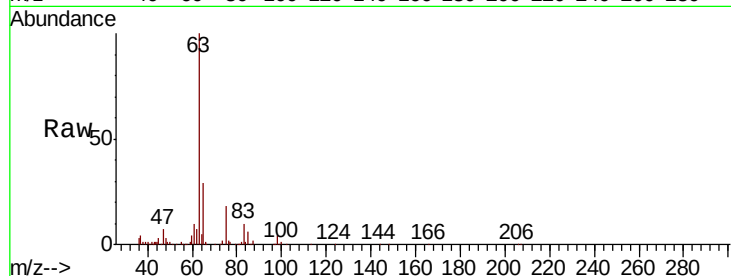
Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 63    | Resp: | 244637 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.1   | 2.2   | 6.6    |
| 100      | 1.1   | 1.5   | 4.4#   |



#25

Ethyl Acetate

Concen: 0.919 ppbv

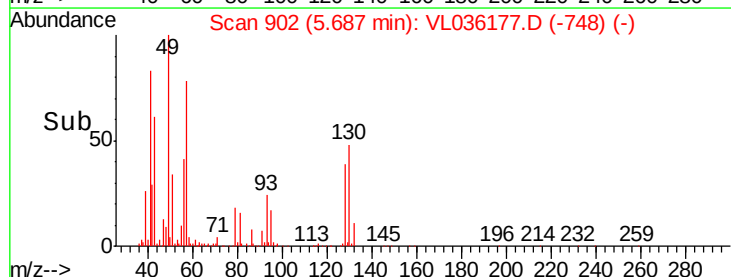
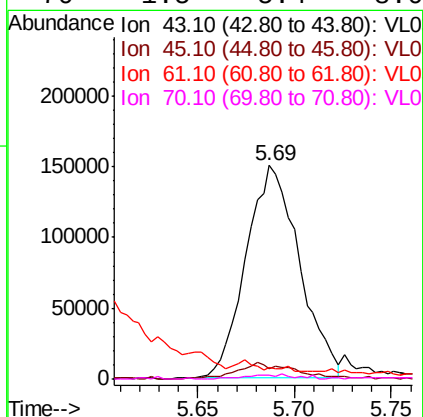
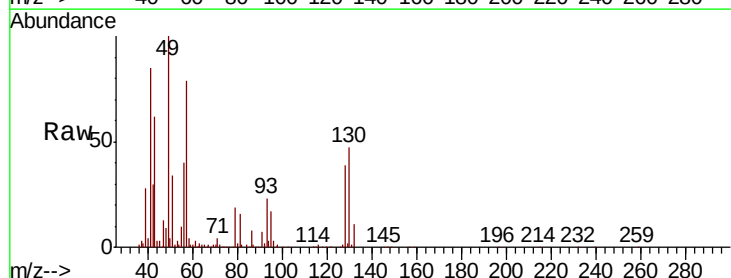
RT: 5.69 min Scan# 902

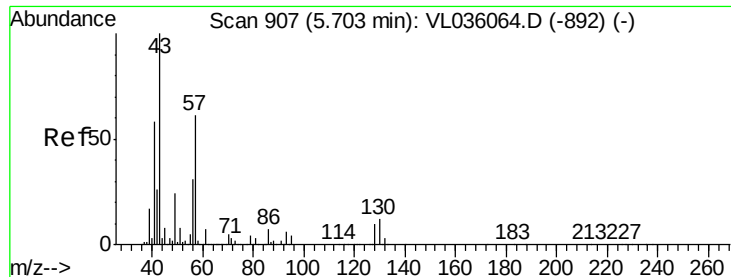
Delta R.T. -0.01 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 288533 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 8.9   | 8.2   | 12.4   |
| 61       | 0.0   | 7.4   | 11.2#  |
| 70       | 1.5   | 5.4   | 8.0#   |

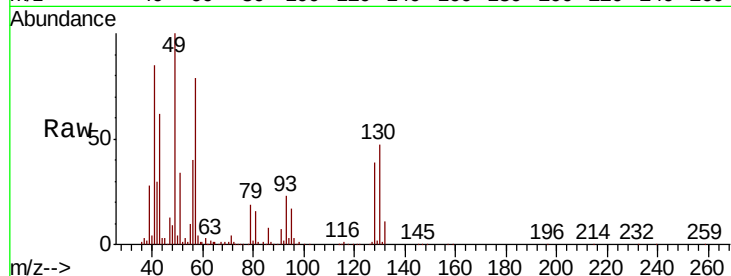




#26  
Hexane  
Concen: 2.799 ppbv  
RT: 5.69 min Scan# 902  
Delta R.T. -0.02 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

Instrument :  
MSVOA\_L  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 103.1 | 82.9  | 124.3  |
| 43      | 79.4  | 199.9 | 299.9# |
| 56      | 55.6  | 43.1  | 64.7   |



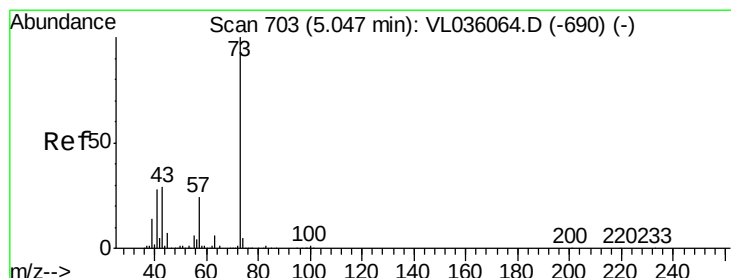
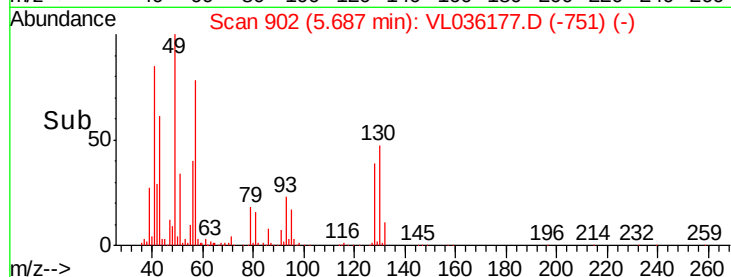
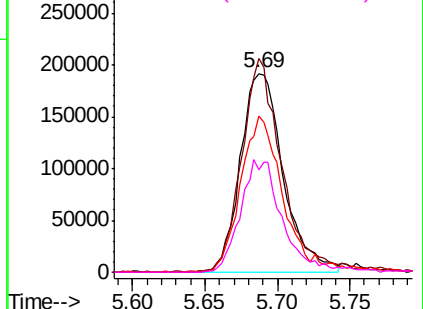
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

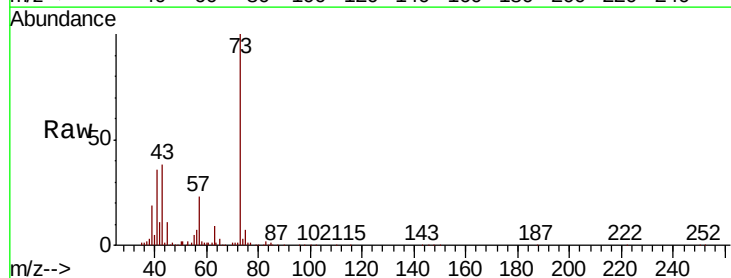
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#28  
Methyl tert-Butyl Ether  
Concen: 1.856 ppbv  
RT: 5.04 min Scan# 702  
Delta R.T. -0.00 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

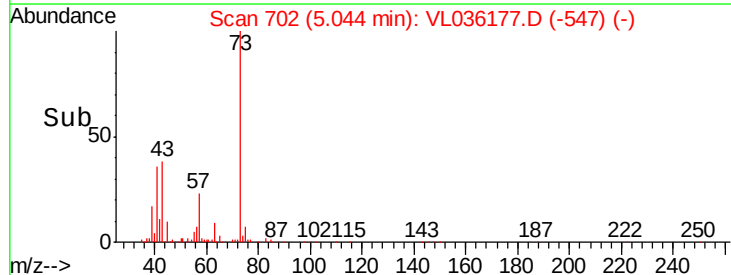
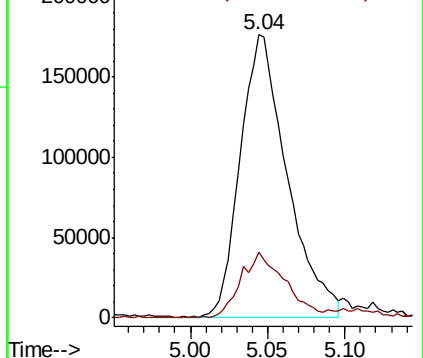
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 21.7  | 19.2  | 28.8  |

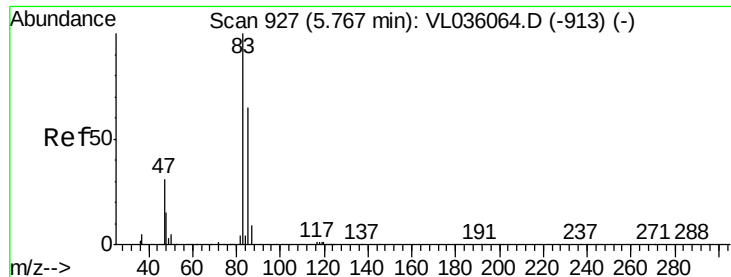


Abundance

Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.941 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.02 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

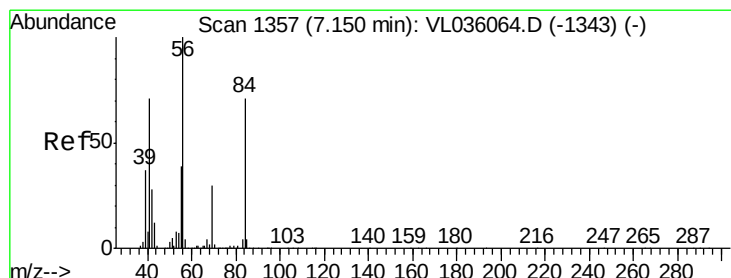
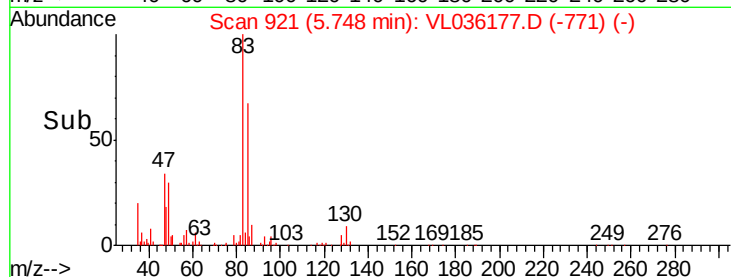
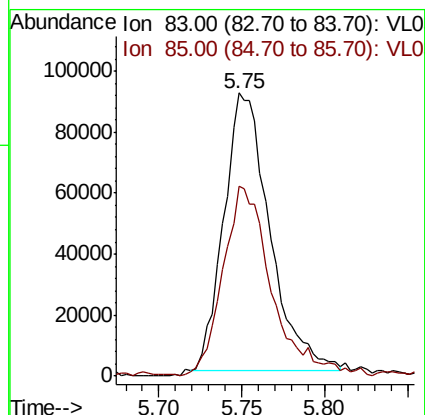
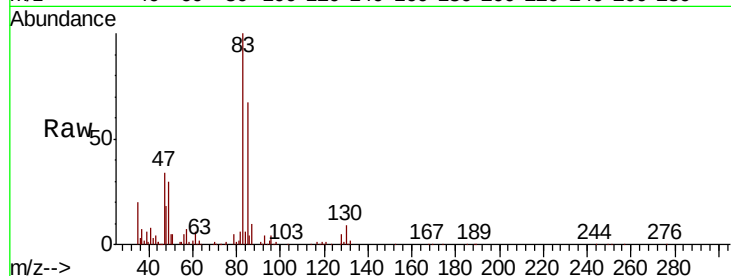
ClientSampled :

Tot Ion: 83 Resp: 174642

Ion Ratio Lower Upper

83 100

85 67.2 51.8 77.6



#30

Cyclohexane

Concen: 0.044 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. -0.02 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

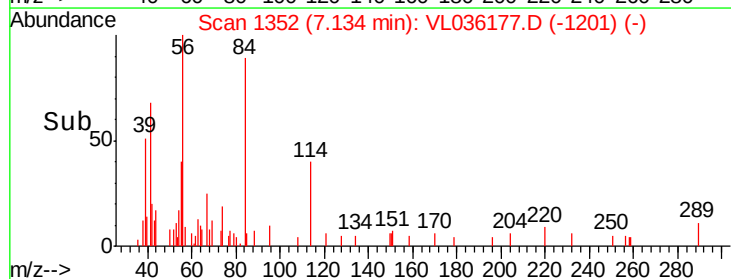
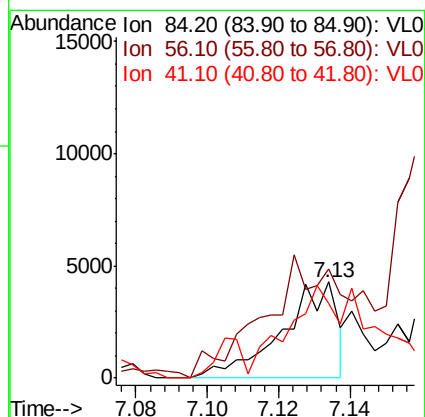
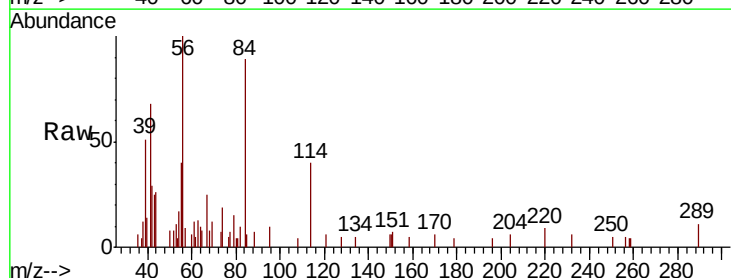
Tgt Ion: 84 Resp: 4543

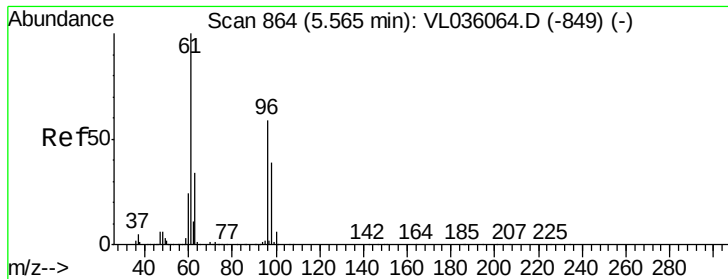
Ion Ratio Lower Upper

84 100

56 0.0 128.0 192.0#

41 212.7 81.3 121.9#



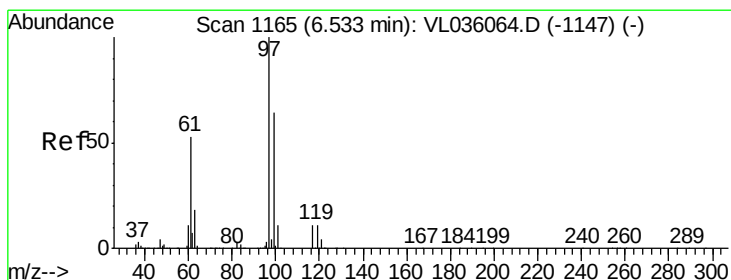
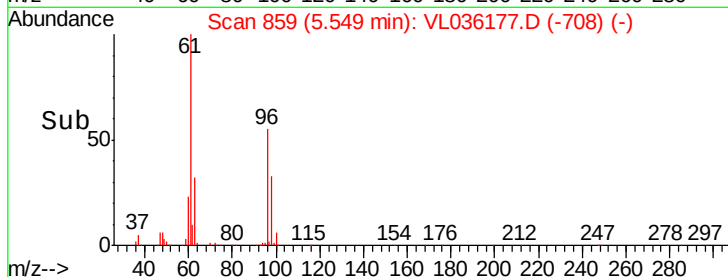
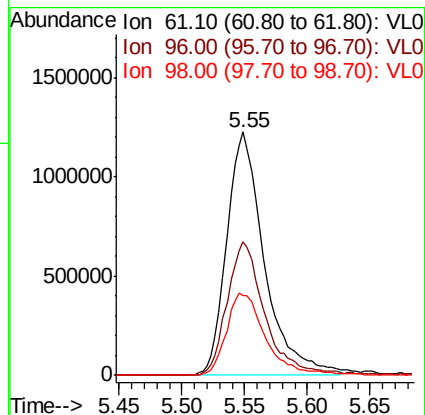
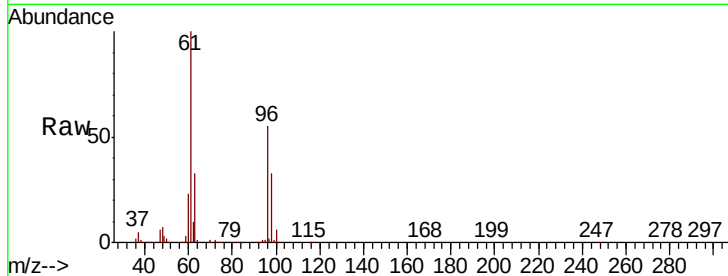


#31

cis-1,2-Dichloroethene  
 Concen: 19.888 ppbv  
 RT: 5.55 min Scan# 859  
 Delta R.T. -0.02 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Instrument :  
 MSVOA\_L  
 ClientSampleId :

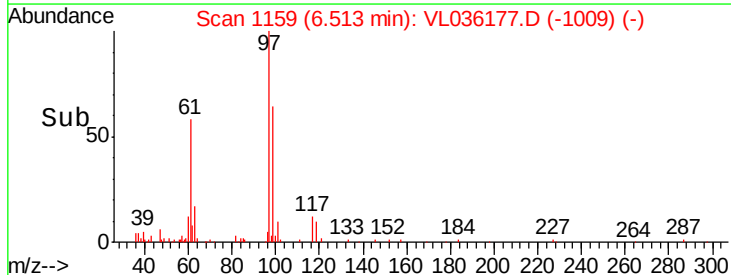
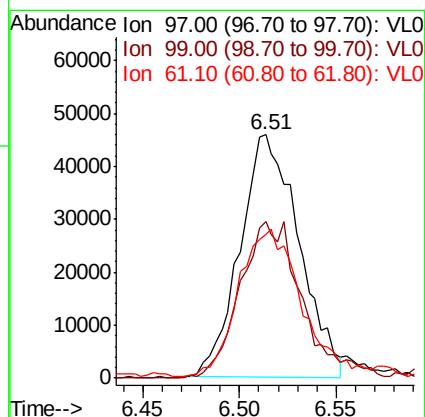
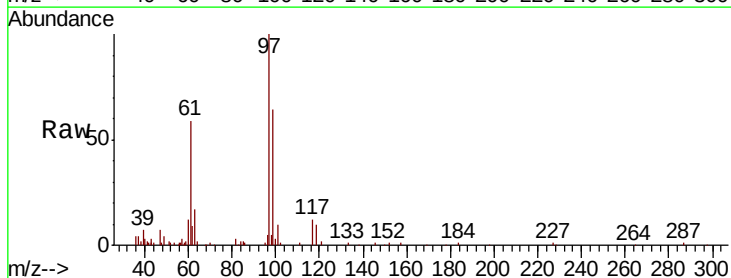
Tot Ion: 61 Resp: 2555853  
 Ion Ratio Lower Upper  
 61 100  
 96 54.7 47.3 70.9  
 98 32.9 31.4 47.0

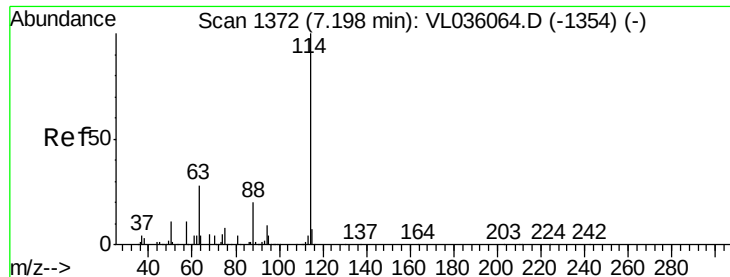


#32

1,1,1-Trichloroethane  
 Concen: 0.507 ppbv  
 RT: 6.51 min Scan# 1159  
 Delta R.T. -0.02 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Tgt Ion: 97 Resp: 97071  
 Ion Ratio Lower Upper  
 97 100  
 99 69.0 52.4 78.6  
 61 71.2 43.4 65.0#

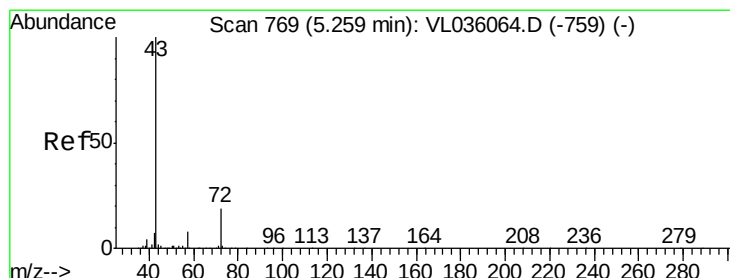
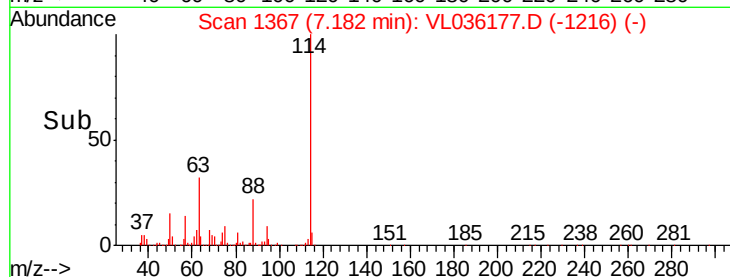
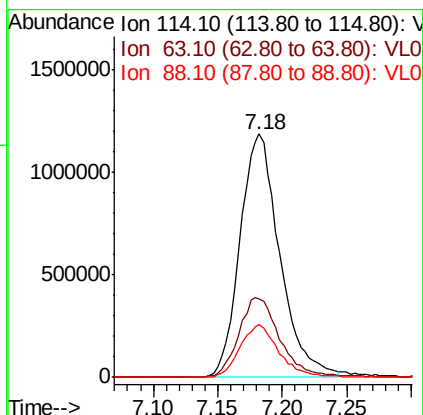
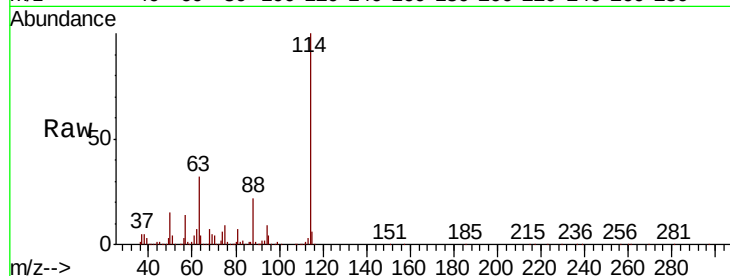




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T. -0.02 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

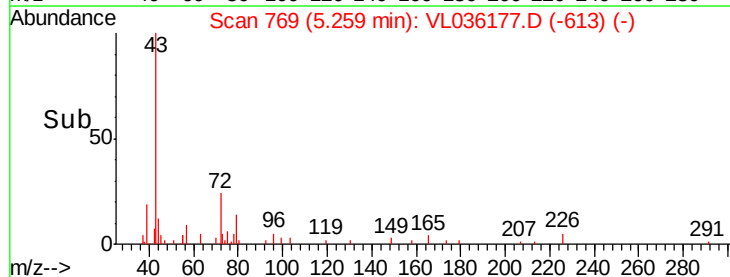
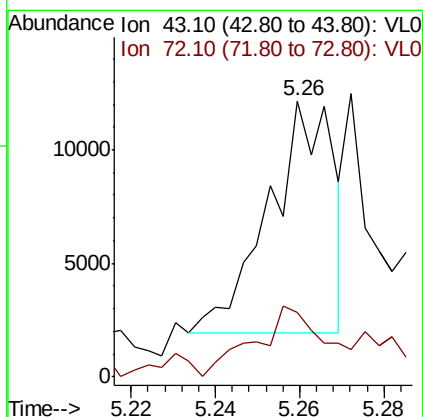
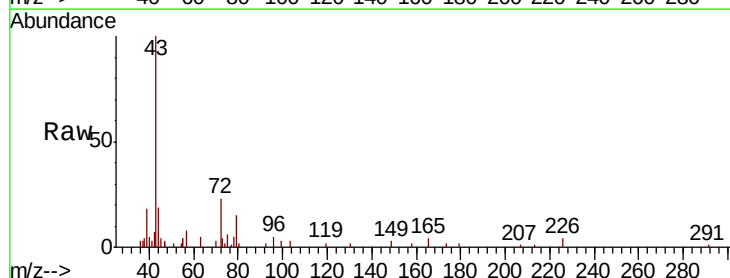
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:114 Resp: 2545905  
 Ion Ratio Lower Upper  
 114 100  
 63 34.4 23.6 35.4  
 88 21.5 15.8 23.6

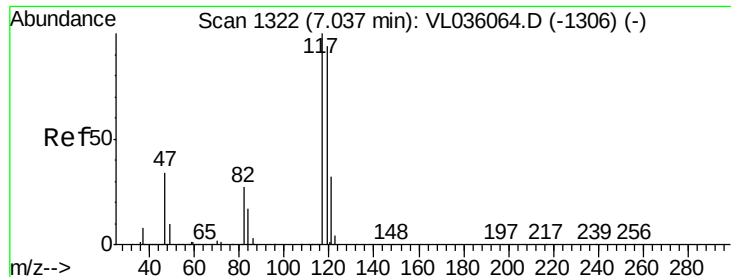


#34  
 2-Butanone  
 Concen: 0.064 ppbv  
 RT: 5.26 min Scan# 769  
 Delta R.T. 0.00 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Tgt Ion: 43 Resp: 10874  
 Ion Ratio Lower Upper  
 43 100  
 72 54.2 16.5 24.7#







#35

Carbon Tetrachloride

Concen: 0.500 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. -0.01 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

ClientSampleId :

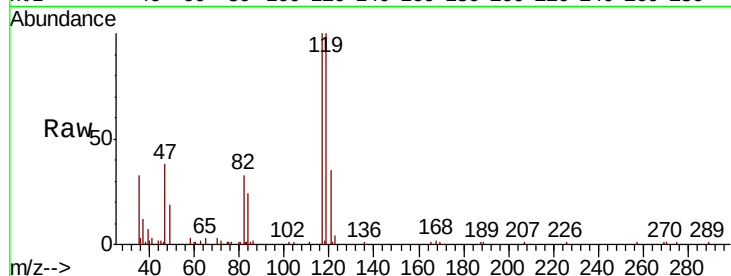
Tot Ion:117 Resp: 74237

Ion Ratio Lower Upper

117 100

119 100.5 75.1 112.7

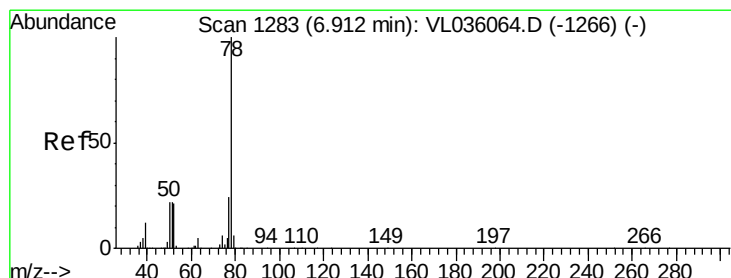
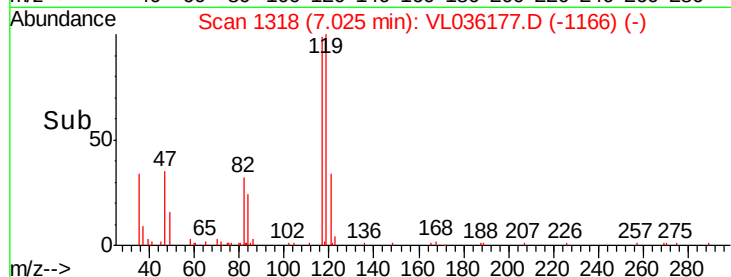
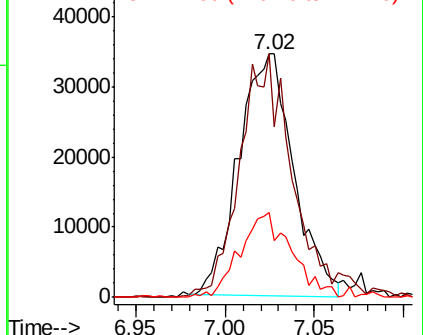
121 36.3 25.6 38.4



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: 0.359 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.02 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

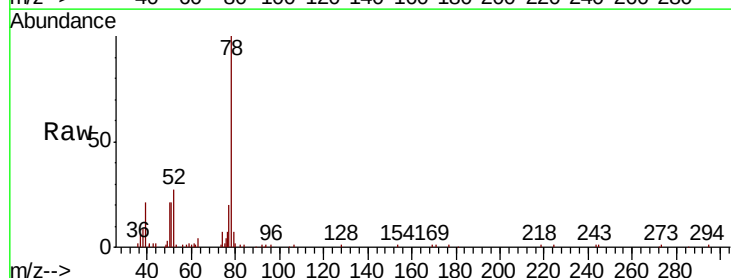
Tgt Ion: 78 Resp: 77464

Ion Ratio Lower Upper

78 100

77 20.0 19.4 29.2

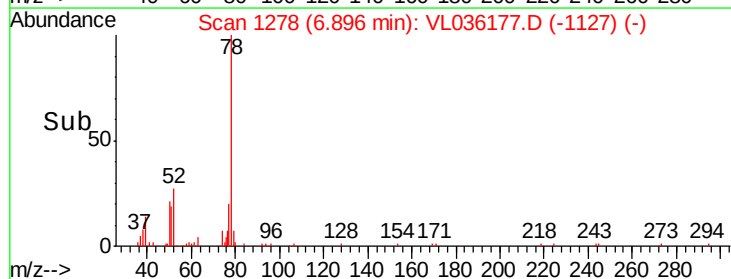
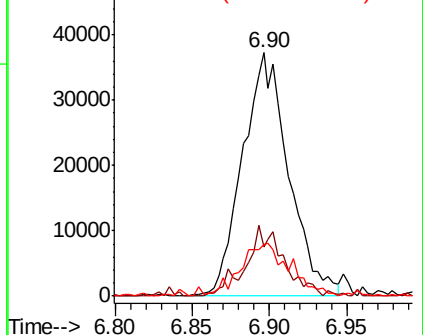
50 21.1 17.8 26.8

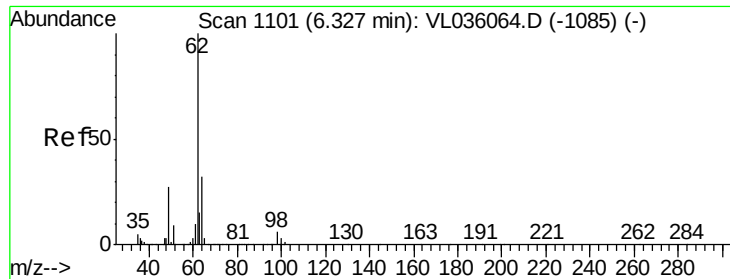


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

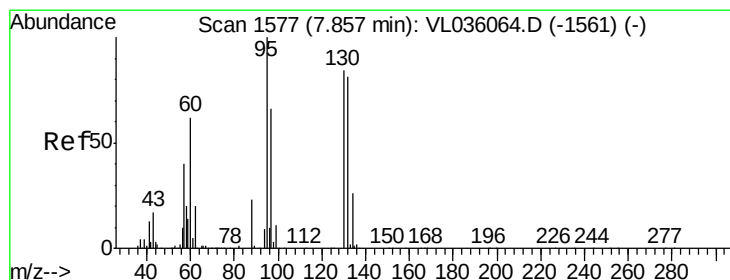
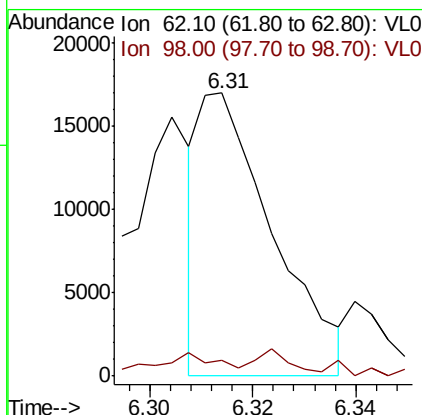
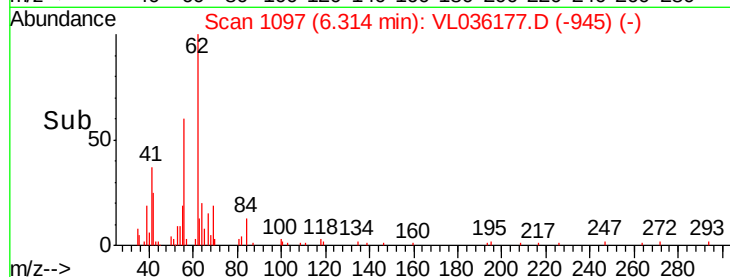
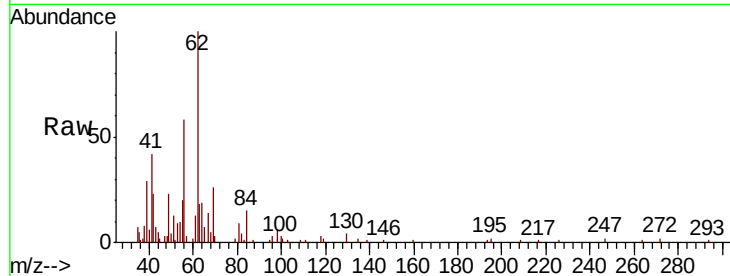




#37  
 1,2-Dichloroethane  
 Concen: 0.134 ppbv  
 RT: 6.31 min Scan# 1097  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

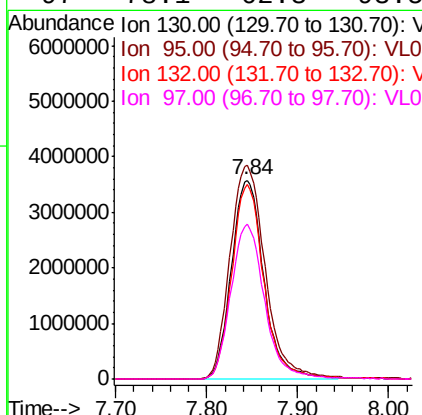
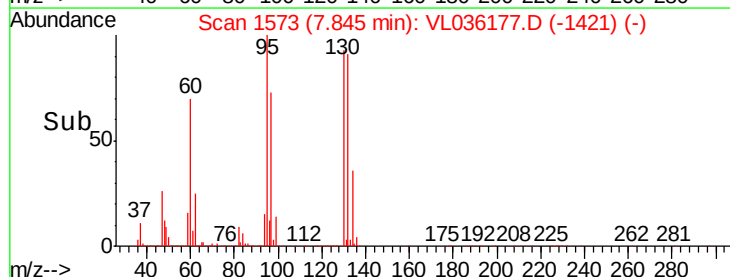
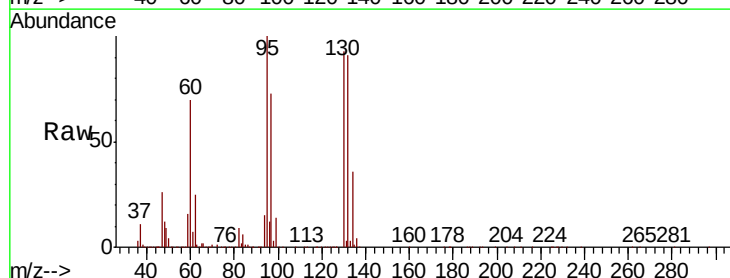
Instrument :  
 MSVOA\_L  
 ClientSampled :

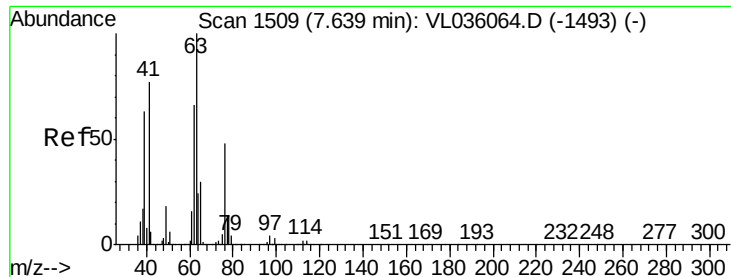
Tot Ion: 62 Resp: 16727  
 Ion Ratio Lower Upper  
 62 100  
 98 16.5 4.6 7.0#



#38  
 Trichloroethene  
 Concen: 110.089 ppbv  
 RT: 7.84 min Scan# 1573  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Tgt Ion: 130 Resp: 8879143  
 Ion Ratio Lower Upper  
 130 100  
 95 107.3 95.2 142.8  
 132 97.9 76.9 115.3  
 97 78.1 62.3 93.5





#39

1,2-Dichloropropane

Concen: 0.267 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.20 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

ClientSampleId :

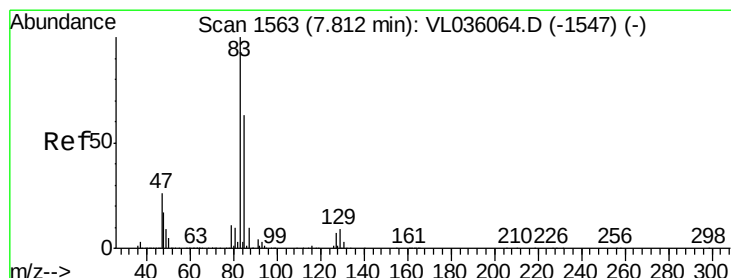
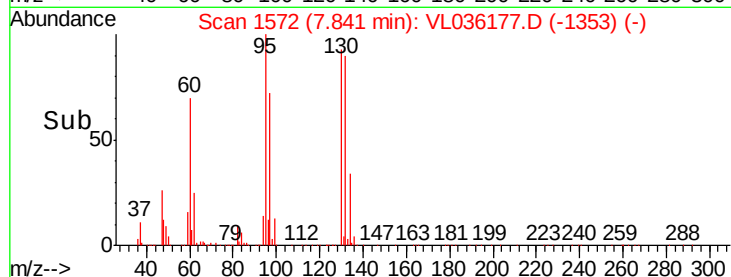
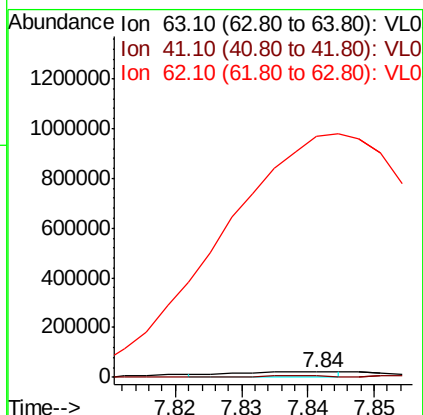
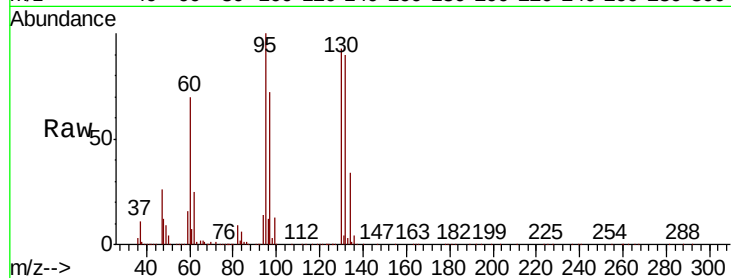
Tot Ion: 63 Resp: 22709

Ion Ratio Lower Upper

63 100

41 27.3 61.9 92.9#

62 4767.3 52.5 78.7#



#42

Bromodichloromethane

Concen: 0.522 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.03 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

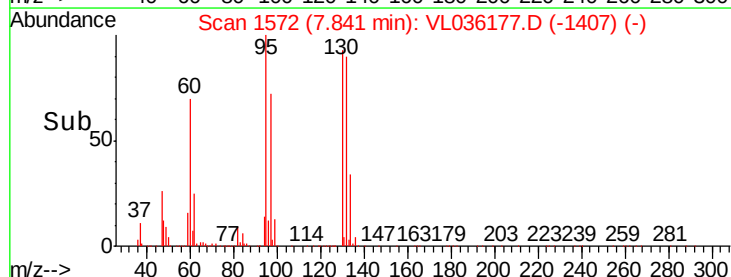
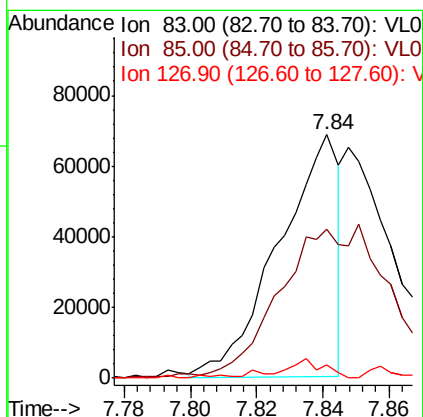
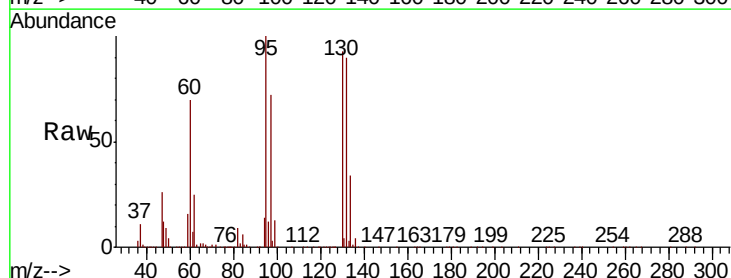
Tgt Ion: 83 Resp: 86922

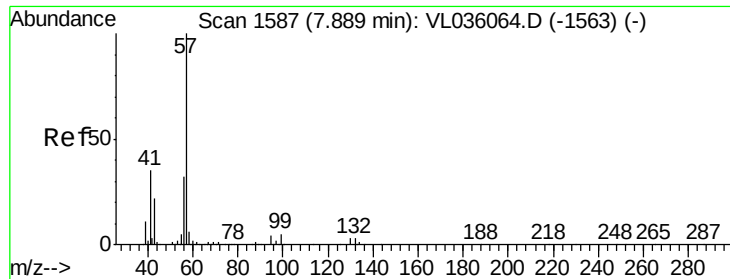
Ion Ratio Lower Upper

83 100

85 60.3 50.2 75.2

127 5.7 5.5 8.3

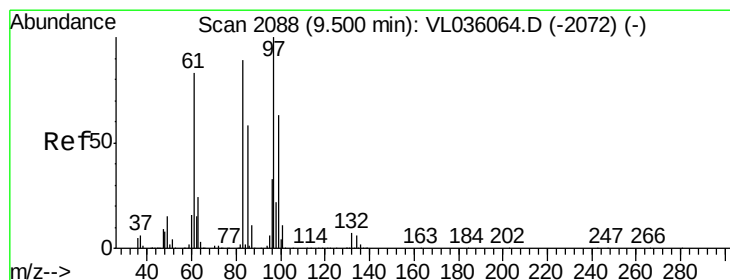
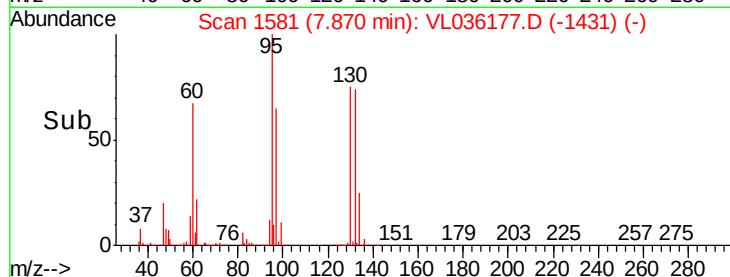
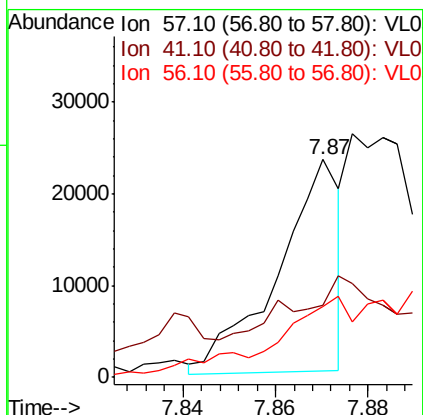
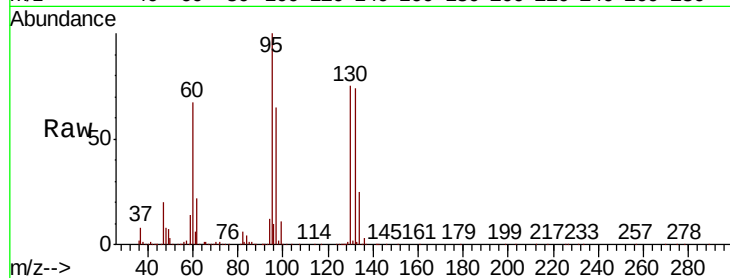




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.055 ppbv  
 RT: 7.87 min Scan# 1581  
 Delta R.T. -0.02 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

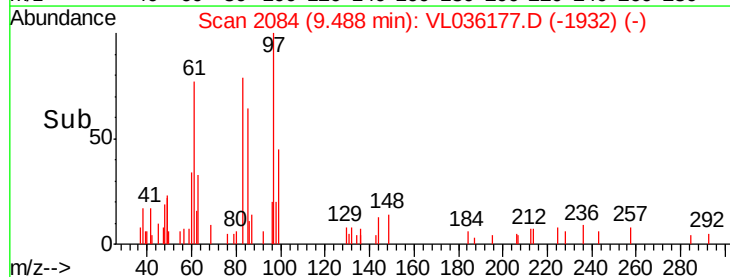
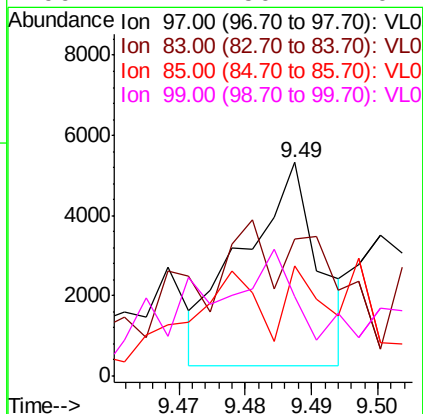
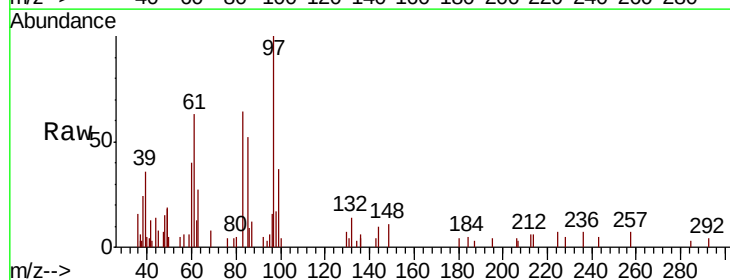
Instrument :  
 MSVOA\_L  
 ClientSampleId :

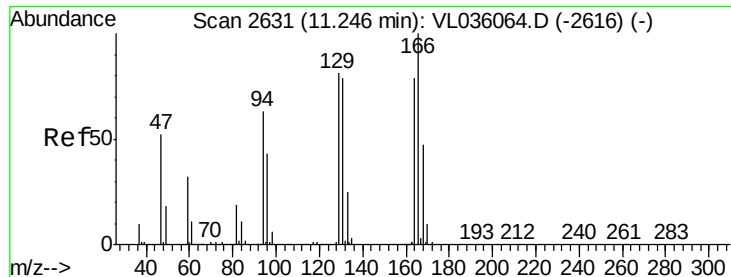
Tot Ion: 57 Resp: 21487  
 Ion Ratio Lower Upper  
 57 100  
 41 0.0 28.9 43.3#  
 56 0.0 25.3 37.9#



#47  
 1,1,2-Trichloroethane  
 Concen: 0.050 ppbv  
 RT: 9.49 min Scan# 2084  
 Delta R.T. -0.01 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Tgt Ion: 97 Resp: 4066  
 Ion Ratio Lower Upper  
 97 100  
 83 34.2 71.4 107.2#  
 85 38.0 46.6 70.0#  
 99 11.2 50.7 76.1#





#52

Tetrachloroethene

Concen: 96.371 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

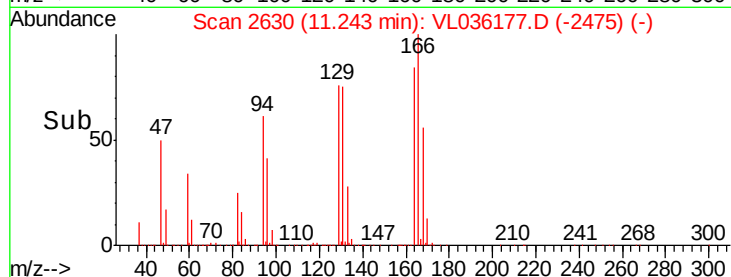
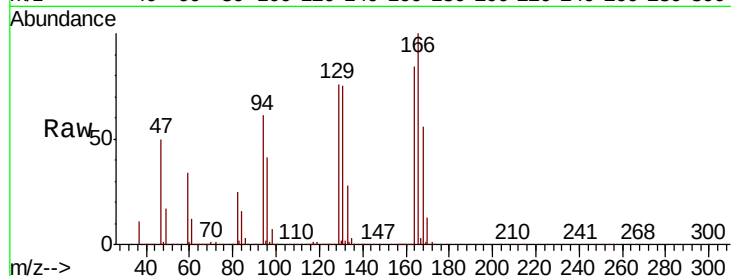
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:164 Resp: 7527067

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 119.7 | 101.9 | 152.9 |
| 129 | 91.3  | 82.1  | 123.1 |
| 131 | 90.3  | 80.8  | 121.2 |

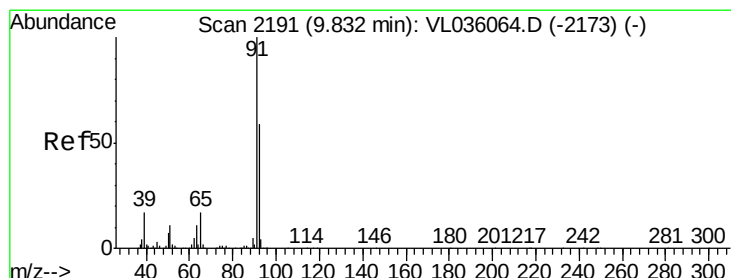
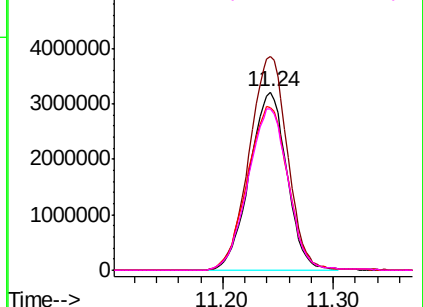


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.138 ppbv

RT: 9.81 min Scan# 2184

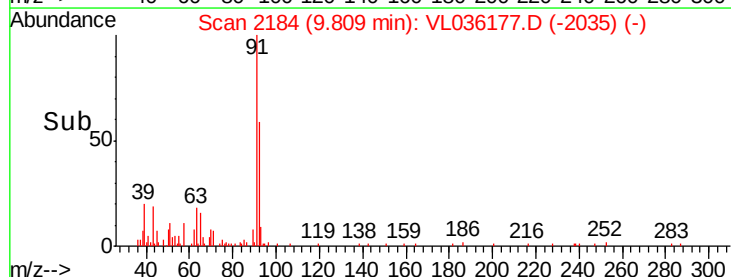
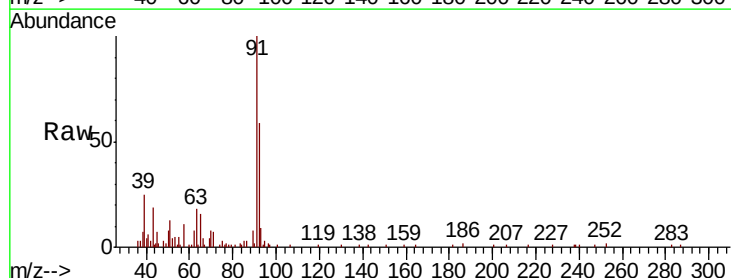
Delta R.T. -0.02 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

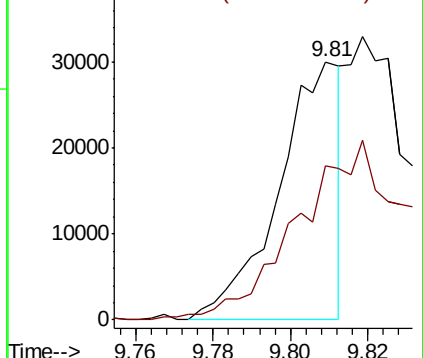
Tgt Ion: 91 Resp: 33493

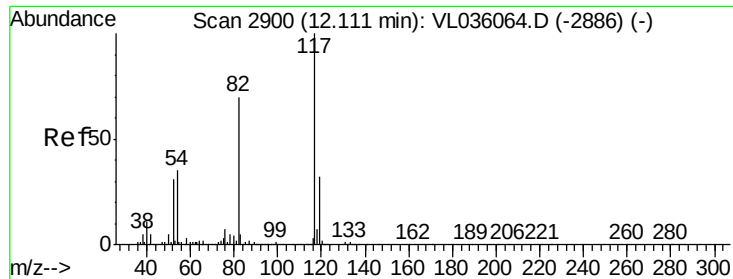
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 0.0   | 48.2  | 72.2  |



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

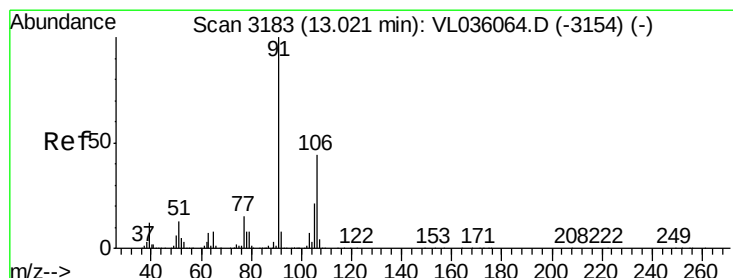
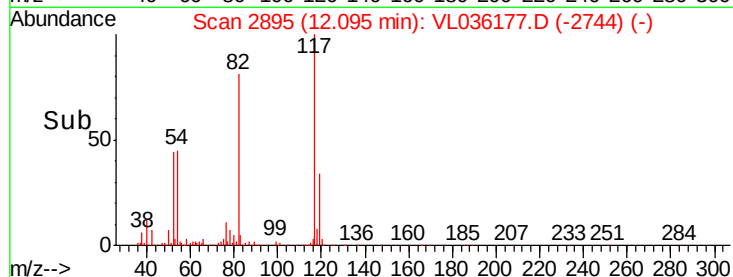
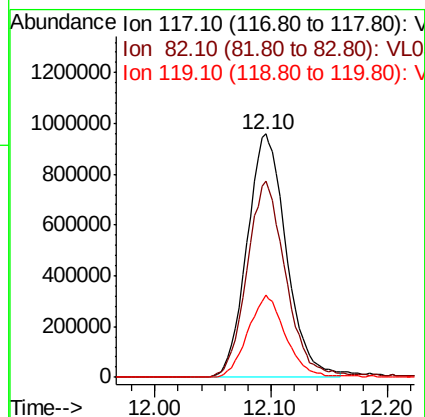
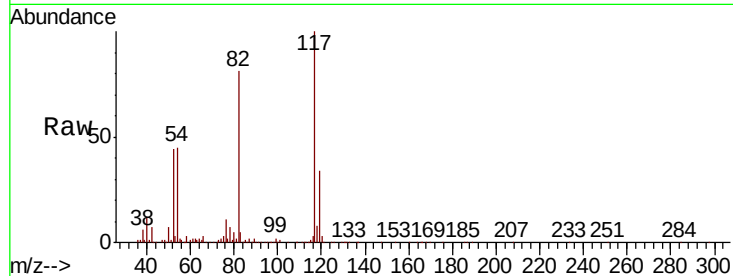




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.10 min Scan# 2895  
Delta R.T. -0.02 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

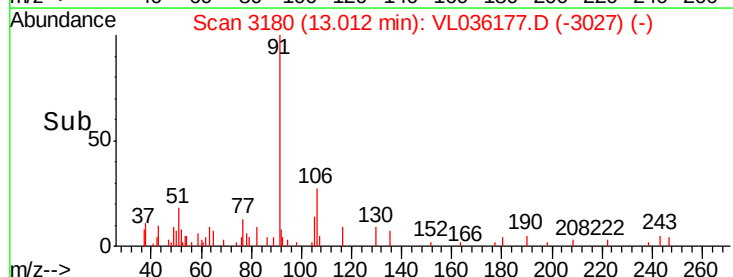
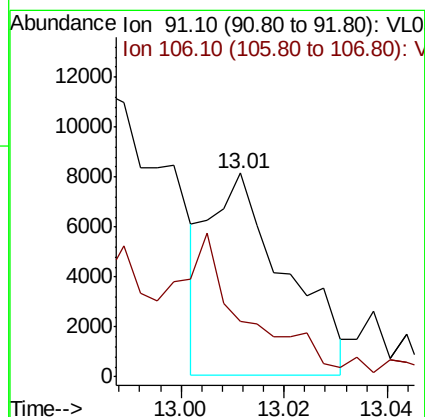
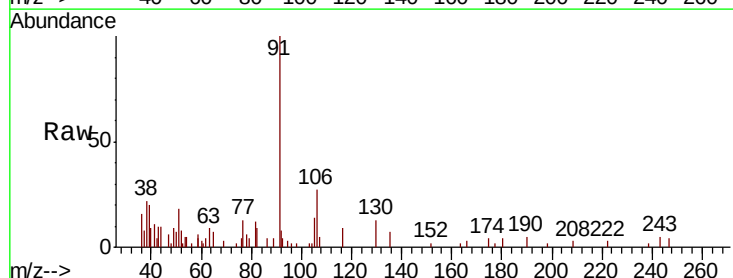
Instrument :  
MSVOA\_L  
ClientSampleId :

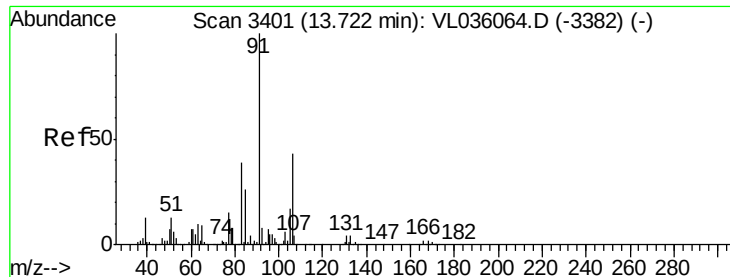
Tot Ion:117 Resp: 2256745  
Ion Ratio Lower Upper  
117 100  
82 81.4 0.0 0.0#  
119 33.1 0.0 0.0#



#59  
m/p-Xylene  
Concen: 0.032 ppbv  
RT: 13.01 min Scan# 3180  
Delta R.T. -0.01 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

Tgt Ion: 91 Resp: 8315  
Ion Ratio Lower Upper  
91 100  
106 128.0 33.6 50.4#

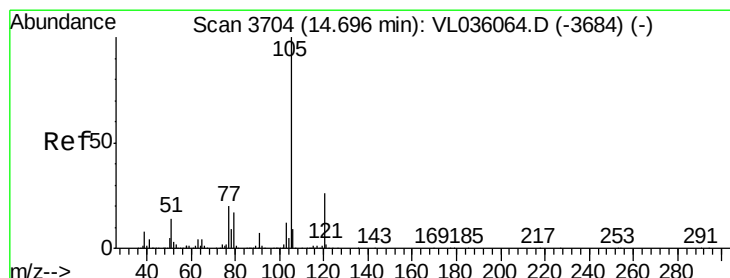
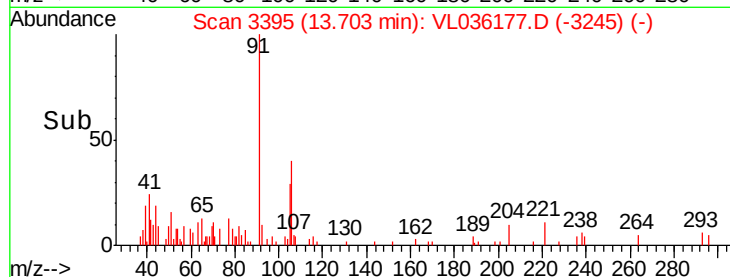
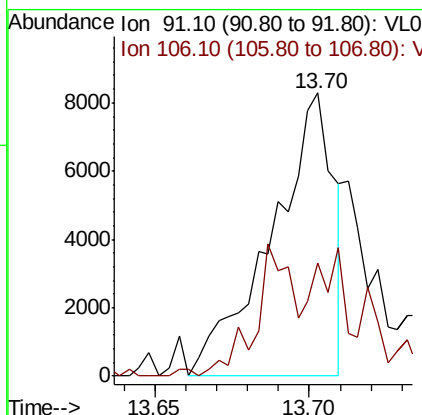
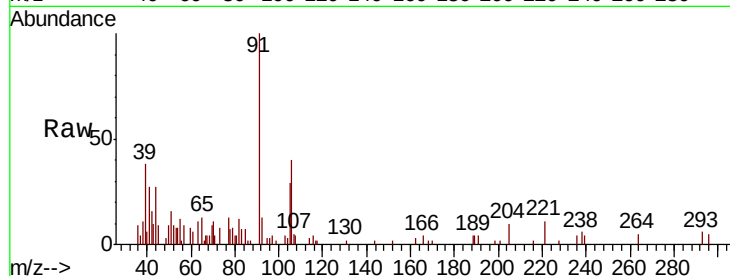




#60  
o-Xylene  
Concen: 0.047 ppbv  
RT: 13.70 min Scan# 3395  
Delta R.T. -0.02 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

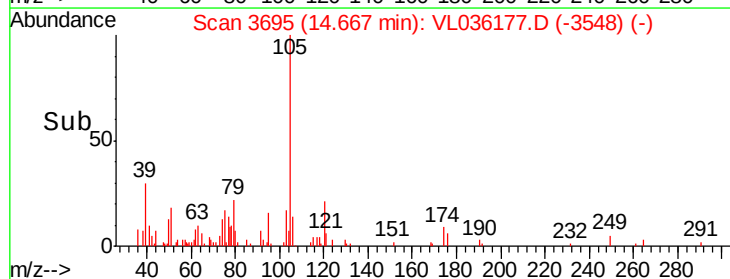
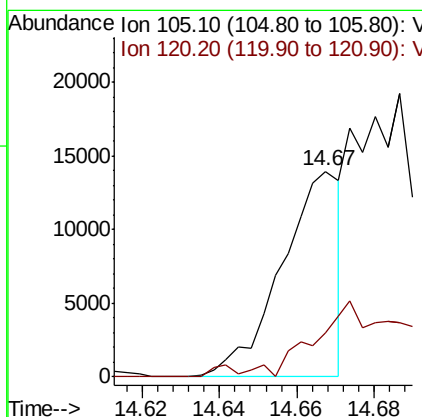
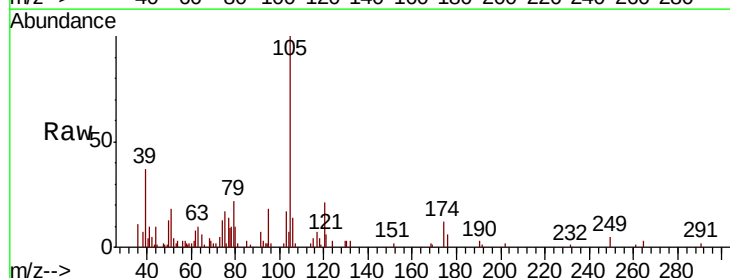
Instrument :  
MSVOA\_L  
ClientSampleId :

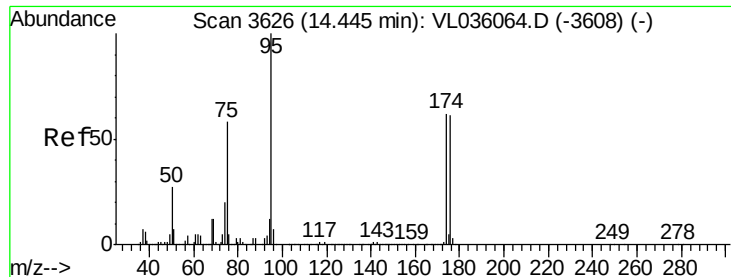
Tot Ion: 91 Resp: 11507  
Ion Ratio Lower Upper  
91 100  
106 63.9 21.6 64.6



#62  
Isopropylbenzene  
Concen: 0.041 ppbv  
RT: 14.67 min Scan# 3695  
Delta R.T. -0.03 min  
Lab File: VL036177.D  
Acq: 16 Dec 2020 21:53

Tgt Ion: 105 Resp: 14798  
Ion Ratio Lower Upper  
105 100  
120 76.1 20.1 30.1#

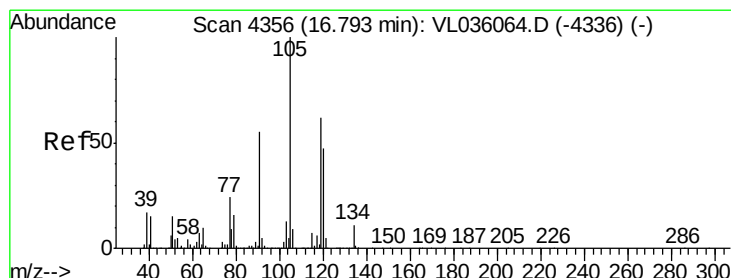
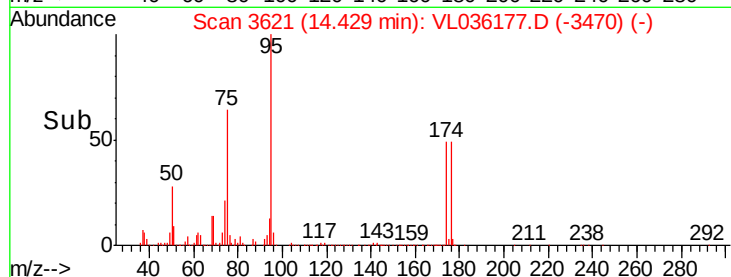
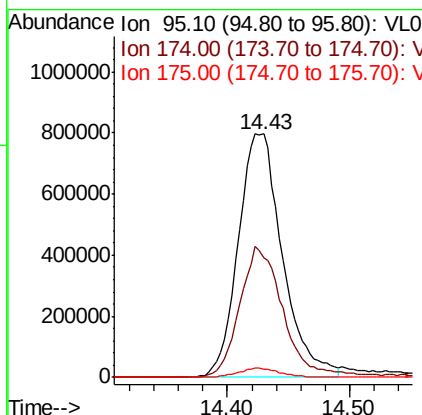
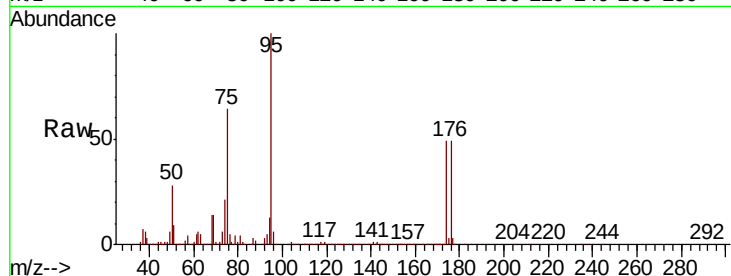




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.121 ppbv  
 RT: 14.43 min Scan# 3621  
 Delta R.T. -0.02 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

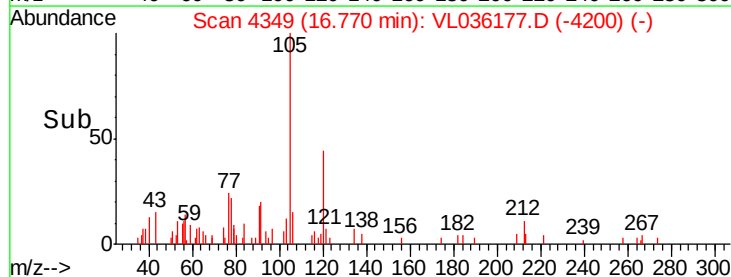
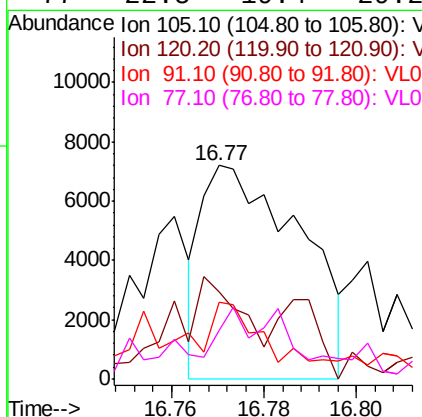
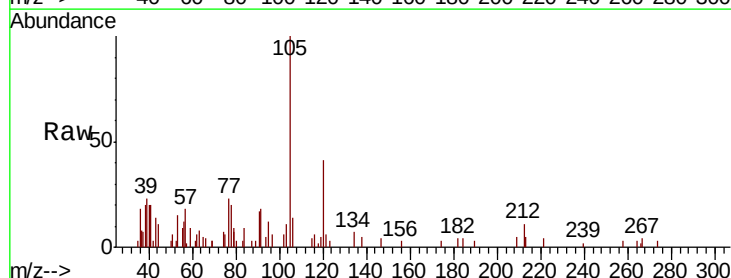
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 95 Resp: 1992858  
 Ion Ratio Lower Upper  
 95 100  
 174 55.1 50.7 76.1  
 175 3.8 4.0 6.0#

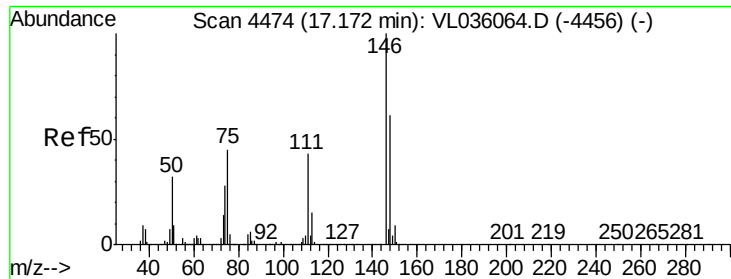


#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.042 ppbv  
 RT: 16.77 min Scan# 4349  
 Delta R.T. -0.02 min  
 Lab File: VL036177.D  
 Acq: 16 Dec 2020 21:53

Tgt Ion:105 Resp: 10617  
 Ion Ratio Lower Upper  
 105 100  
 120 67.8 37.4 56.0#  
 91 45.7 45.6 68.4  
 77 22.5 19.4 29.2







#76

1,4-Dichlorobenzene

Concen: 0.051 ppbv

RT: 17.15 min Scan# 4468

Delta R.T. -0.02 min

Lab File: VL036177.D

Acq: 16 Dec 2020 21:53

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:146 Resp: 6671

Ion Ratio Lower Upper

146 100

111 100.5 24.3 72.8#

148 200.2 32.8 98.3#

