

Data File : VL038255.D

Acq On : 24 Jan 2022 10:45

Operator : SY/AP

Sample : VSTDICC001

Misc : 400mL/MSVOA\_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Quant Time: Jan 24 11:21:14 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012422AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 24 11:15:25 2022

QLast Update : Mon Jan 24 11:15:25 2022

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 839800   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2253915  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2012260  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1513997  | 9.76     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.60% |

## Target Compounds

|                                |      |     |        |       |        | Qvalue |
|--------------------------------|------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 201851 | 1.276 | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 173404 | 0.983 | ppbv   | 99     |
| 4) Chloromethane               | 3.15 | 50  | 60780  | 0.993 | ppbv   | 92     |
| 5) Vinyl Chloride              | 3.27 | 62  | 57574  | 0.936 | ppbv   | 99     |
| 6) Bromomethane                | 3.48 | 94  | 31627  | 1.009 | ppbv   | 90     |
| 7) Chloroethane                | 3.57 | 64  | 18479  | 0.892 | ppbv # | 79     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 135239 | 0.901 | ppbv   | 94     |
| 9) Propene                     | 3.02 | 41  | 53105  | 0.867 | ppbv   | 91     |
| 10) Heptane                    | 8.13 | 43  | 139155 | 0.895 | ppbv   | 97     |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 146112 | 1.005 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 106790 | 0.973 | ppbv   | 96     |
| 13) Ethanol                    | 3.63 | 45  | 4620   | 0.445 | ppbv # | 38     |
| 14) Bromoethene                | 3.75 | 108 | 42345  | 0.968 | ppbv   | 99     |
| 15) Acetone                    | 3.87 | 43  | 80265  | 0.952 | ppbv   | 96     |
| 16) 1,3-Butadiene              | 3.34 | 39  | 50639  | 0.882 | ppbv   | 96     |
| 17) tert-Butyl alcohol         | 4.31 | 59  | 73559  | 0.795 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 47938  | 0.997 | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.99 | 45  | 17051  | 0.324 | ppbv # | 61     |
| 20) Methylene Chloride         | 4.35 | 84  | 42873  | 0.901 | ppbv   | 90     |
| 21) Allyl Chloride             | 4.42 | 41  | 62971  | 0.883 | ppbv   | 88     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 21943  | 0.447 | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.08 | 43  | 100723 | 0.883 | ppbv # | 97     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 100097 | 0.981 | ppbv   | 97     |
| 25) Ethyl Acetate              | 5.69 | 43  | 218750 | 0.958 | ppbv   | 98     |
| 26) Hexane                     | 5.69 | 57  | 97443  | 0.851 | ppbv   | 94     |
| 27) Carbon Disulfide           | 4.56 | 76  | 111650 | 1.107 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73  | 99100  | 0.861 | ppbv   | 94     |
| 29) Chloroform                 | 5.75 | 83  | 165528 | 0.974 | ppbv   | 100    |
| 30) Cyclohexane                | 7.13 | 84  | 41064  | 0.405 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 82408  | 0.917 | ppbv   | 93     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 156458 | 0.928 | ppbv   | 96     |
| 34) 2-Butanone                 | 5.26 | 43  | 68364  | 1.009 | ppbv   | 92     |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 162804 | 1.170 | ppbv   | 95     |
| 36) Benzene                    | 6.89 | 78  | 211541 | 1.006 | ppbv   | 97     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 117005 | 1.109 | ppbv   | 99     |
| 38) Trichloroethene            | 7.84 | 130 | 75059  | 0.938 | ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 84066  | 1.039 | ppbv   | 99     |
| 40) 1,4-Dioxane                | 7.86 | 88  | 9546   | 0.406 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.07 | 42  | 22980  | 0.463 | ppbv # | 29     |
| 42) Bromodichloromethane       | 7.79 | 83  | 174709 | 1.164 | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 69715  | 0.964 | ppbv   | 91     |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 24 11:15:25 2022

QLast Update : Mon Jan 24 11:15:25 2022

Response via : Initial Calibration

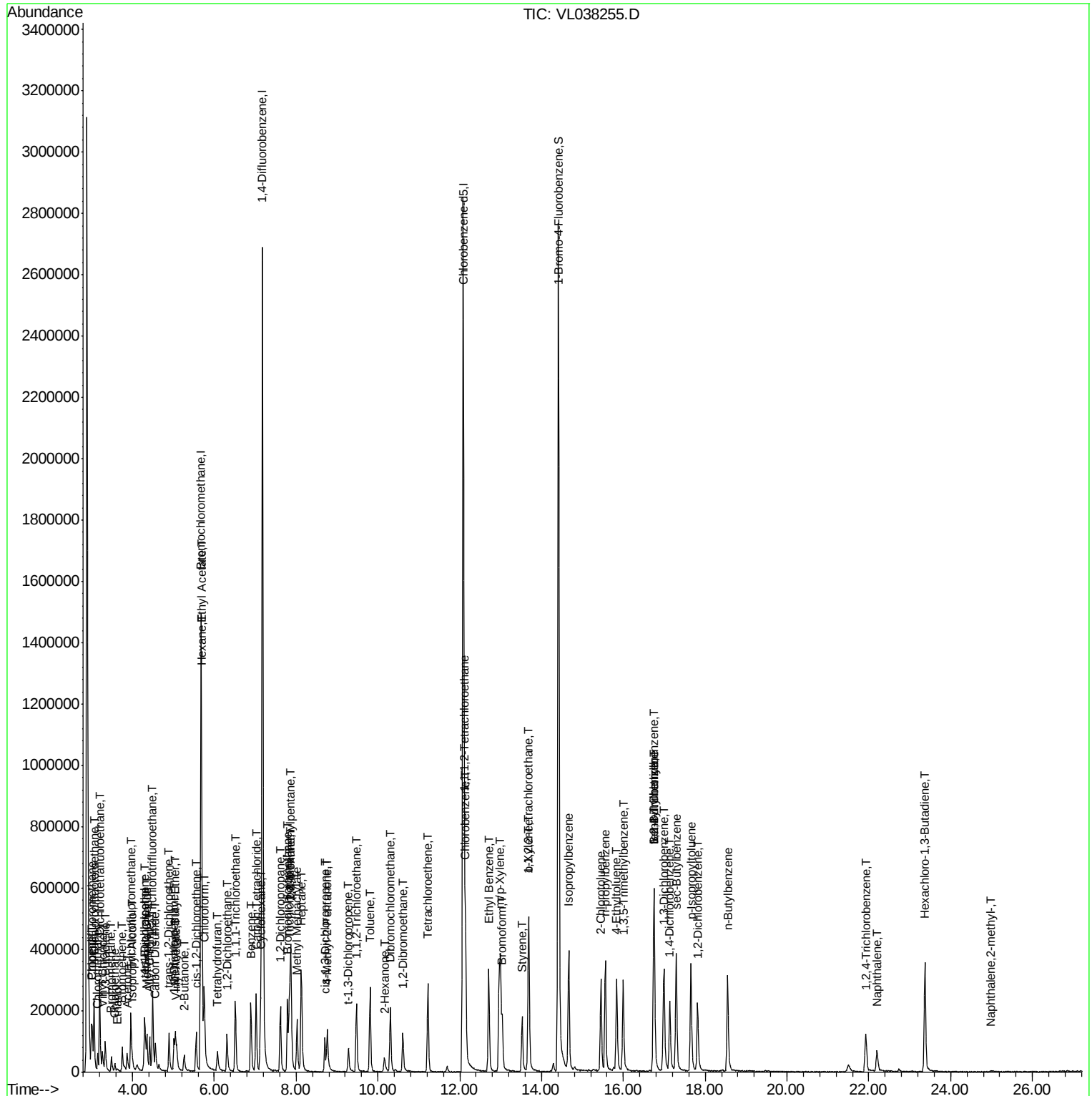
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 380997   | 1.067  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 50545    | 0.944  | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 67390    | 0.909  | ppbv   | 92       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 81679    | 0.973  | ppbv   | 88       |
| 48) Dibromochloromethane      | 10.30 | 129  | 136861   | 1.159  | ppbv   | 97       |
| 49) Bromoform                 | 13.04 | 173  | 97045    | 1.157  | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 56436    | 0.458  | ppbv # | 14       |
| 51) 2-Hexanone                | 10.15 | 43   | 17051    | 0.289  | ppbv # | 1        |
| 52) Tetrachloroethene         | 11.22 | 164  | 69908    | 0.901  | ppbv   | 94       |
| 53) Toluene                   | 9.81  | 91   | 229894   | 0.948  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 115650   | 0.971  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 93150    | 1.113  | ppbv # | 1        |
| 57) Chlorobenzene             | 12.15 | 112  | 175380   | 1.005  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.71 | 91   | 313026   | 1.002  | ppbv   | 96       |
| 59) m/p-Xylene                | 12.99 | 91   | 220406   | 0.826  | ppbv # | 7        |
| 60) o-Xylene                  | 13.69 | 91   | 255533   | 1.032  | ppbv   | 98       |
| 61) Styrene                   | 13.53 | 104  | 107710   | 0.859  | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.67 | 105  | 338637   | 0.975  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 183910   | 0.966  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.56 | 120  | 44574    | 0.516  | ppbv   | 70       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 280602   | 0.917  | ppbv   | 94       |
| 66) Benzyl Chloride           | 16.75 | 91   | 242873   | 21.305 | ppbv # | 68       |
| 67) sec-Butylbenzene          | 17.29 | 105  | 391465   | 0.931  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 287326   | 0.850  | ppbv   | 95       |
| 70) n-Butylbenzene            | 18.55 | 91   | 289169   | 0.900  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 246249   | 0.952  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 257446   | 0.903  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 235270   | 0.922  | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 248463   | 0.927  | ppbv # | 88       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 132022   | 0.912  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 118513   | 0.825  | ppbv   | 93       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 119482   | 0.862  | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 51699    | 0.605  | ppbv # | 31       |
| 79) Naphthalene               | 22.20 | 128  | 87600    | 0.633  | ppbv # | 95       |
| 80) Naphthalene,2-methyl-     | 24.98 | 142  | 2405     | 0.088  | ppbv # | 30       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 25924    | 0.328  | ppbv # | 1        |

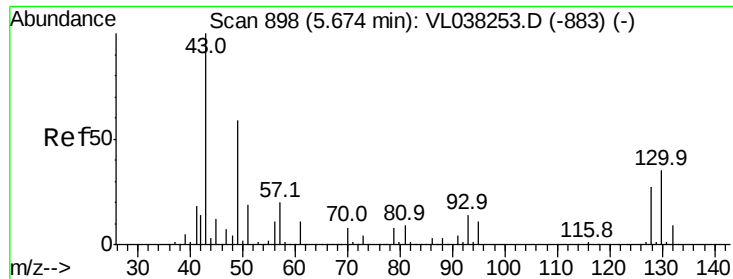
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1      Sample Multiplier: 1

VSTDICC001

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA\_1

Delta R.T. 0.00

Lab File: ClientSampleId: VSTDIC001

Acq: 24 Jan 2022 10:45

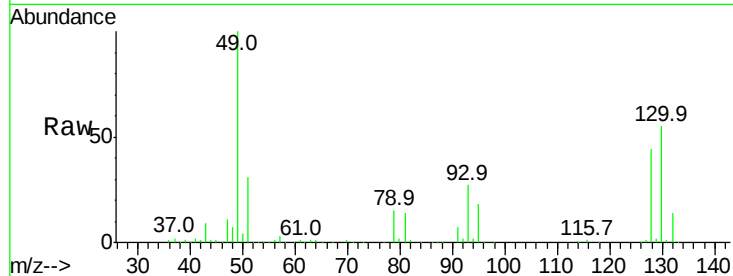
Tgt Ion: 49 Resp: 839800

Ion Ratio Lower Upper

49 100

128 47.2 24.5 73.5

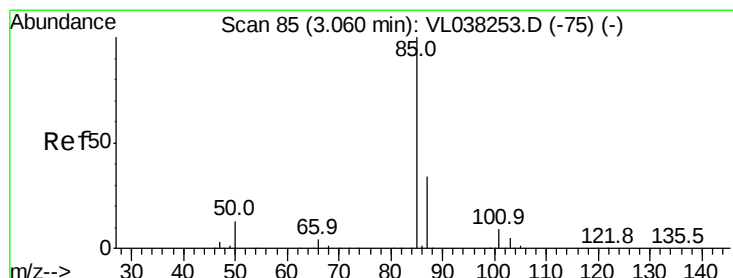
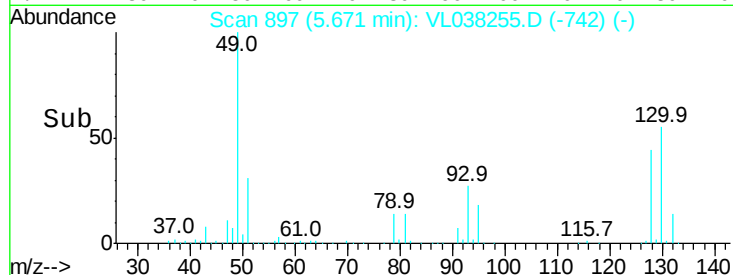
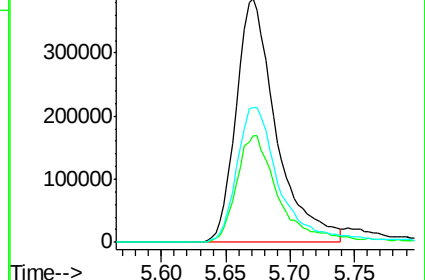
130 60.4 30.1 90.5



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: 1.276 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL038255.D

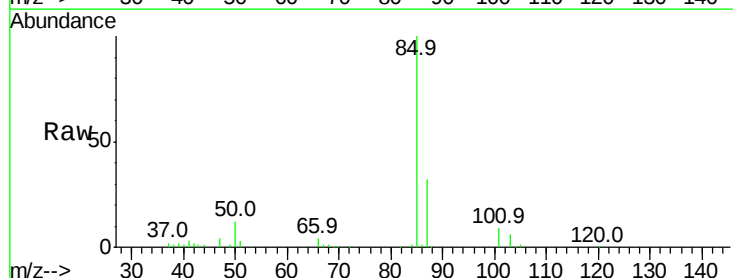
Acq: 24 Jan 2022 10:45

Tgt Ion: 85 Resp: 201851

Ion Ratio Lower Upper

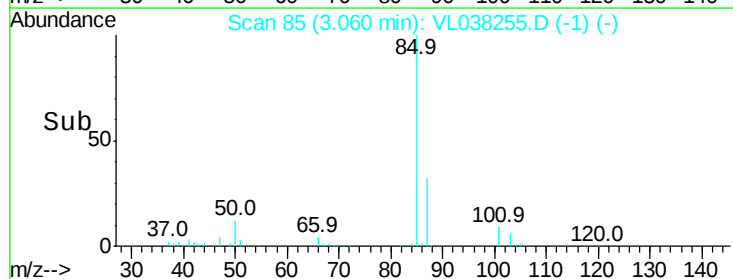
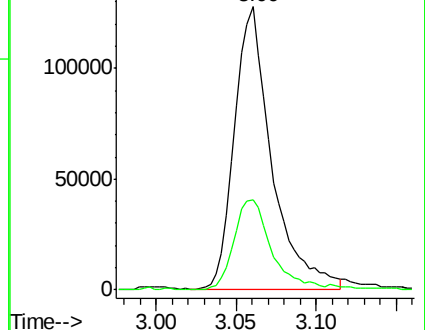
85 100

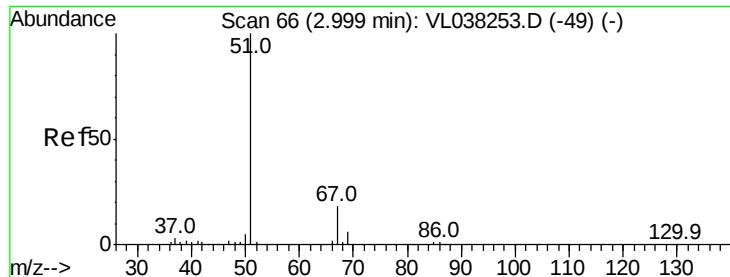
87 31.9 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

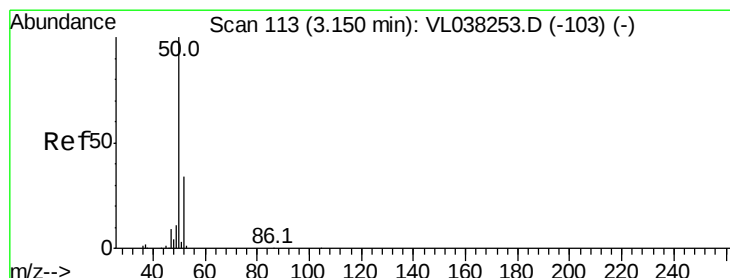
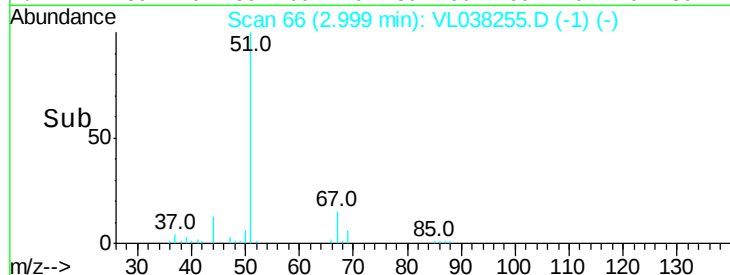
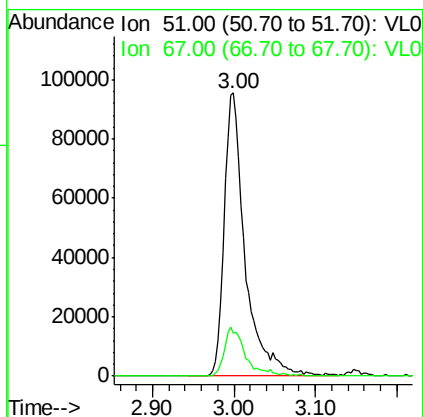
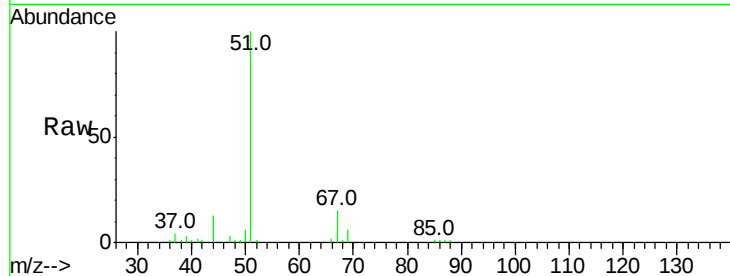
Ion 87.00 (86.70 to 87.70): VL0





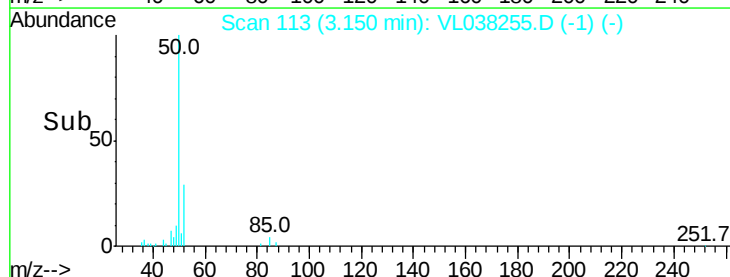
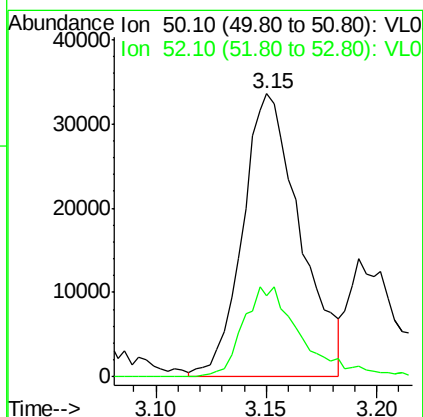
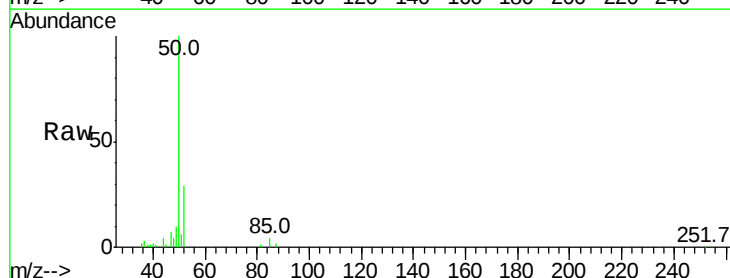
#3  
 Chlorodifluoromethane  
 Concen: 0.983 ppbv  
 RT: 3.00  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

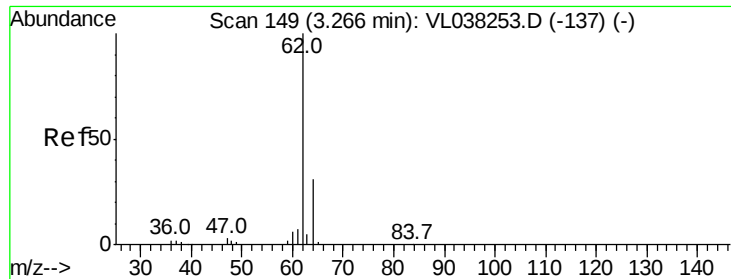
Tgt Ion: 51 Resp: 173404  
 Ion Ratio Lower Upper  
 51 100  
 67 17.5 14.4 21.6



#4  
 Chloromethane  
 Concen: 0.993 ppbv  
 RT: 3.15 min Scan# 113  
 Delta R.T. 0.00 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

Tgt Ion: 50 Resp: 60780  
 Ion Ratio Lower Upper  
 50 100  
 52 29.2 27.1 40.7





#5

Vinyl Chloride

Concen: 0.936 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

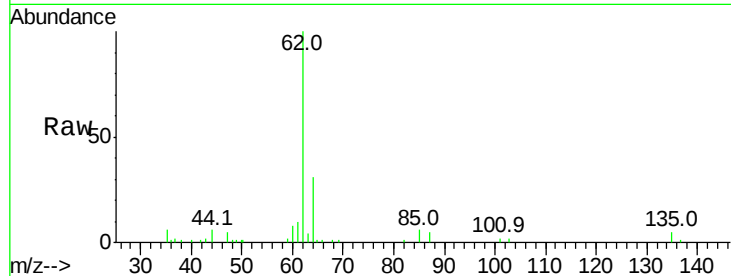
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 62 Resp: 57574

Ion Ratio Lower Upper

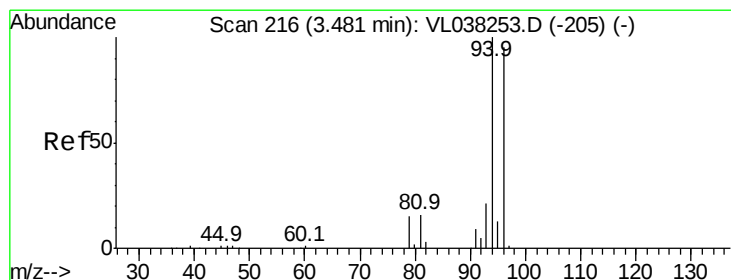
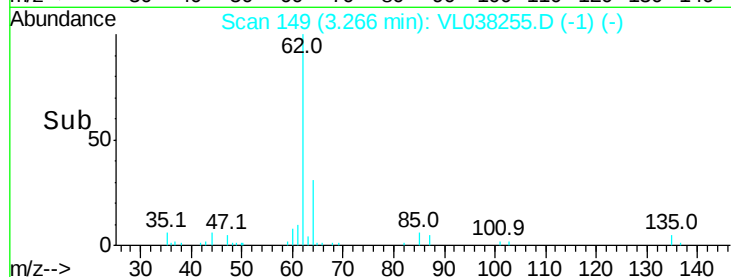
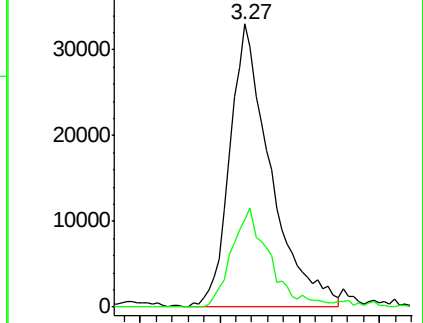
62 100

64 31.0 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.009 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.00 min

Lab File: VL038255.D

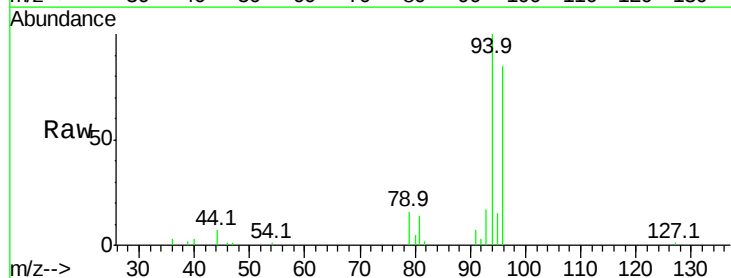
Acq: 24 Jan 2022 10:45

Tgt Ion: 94 Resp: 31627

Ion Ratio Lower Upper

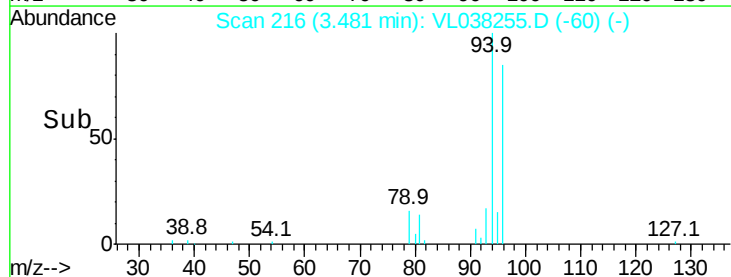
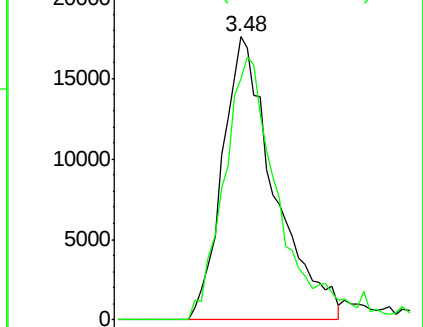
94 100

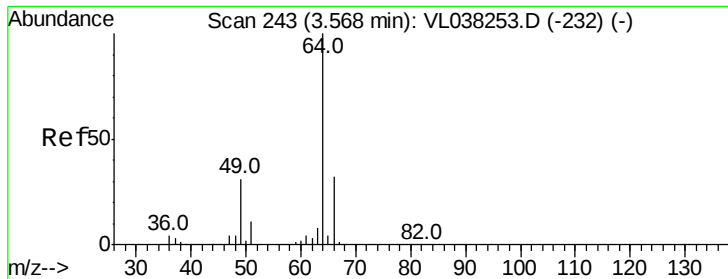
96 85.0 76.0 114.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.892 ppbv

RT: 3.57 Instrument: MSVOA\_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: VSTDIC001

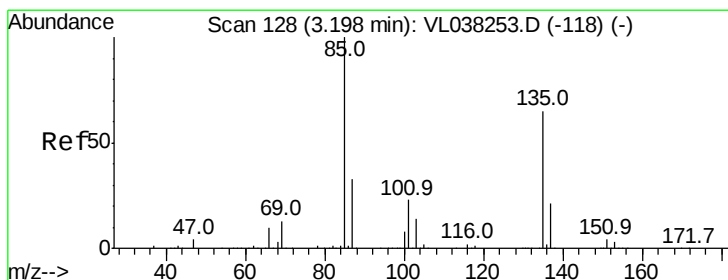
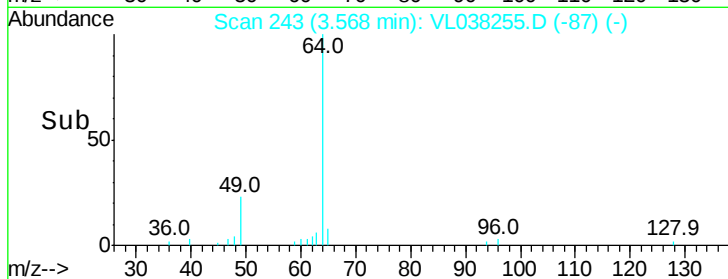
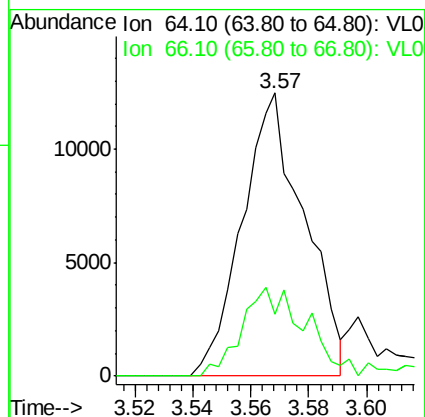
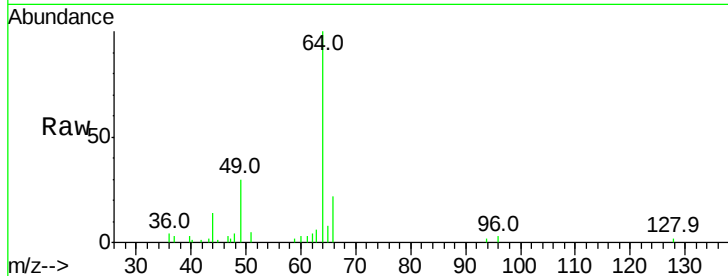
Acq: 24 Jan 2022 10:45

Tgt Ion: 64 Resp: 18479

Ion Ratio Lower Upper

64 100

66 20.2 25.8 38.6#



#8

Dichlorotetrafluoroethane

Concen: 0.901 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.00 min

Lab File: VL038255.D

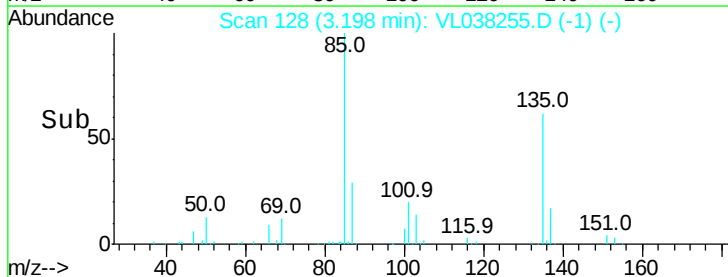
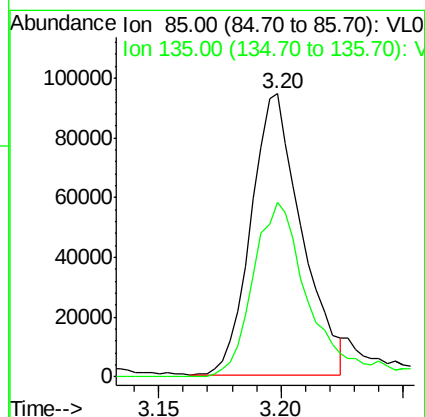
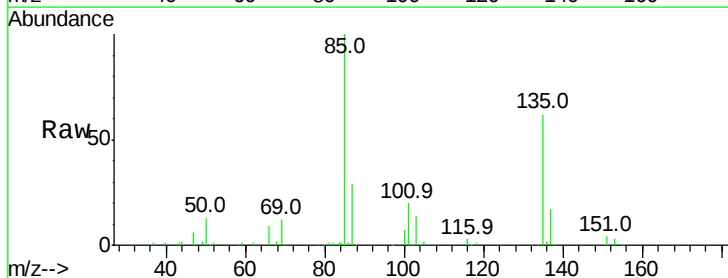
Acq: 24 Jan 2022 10:45

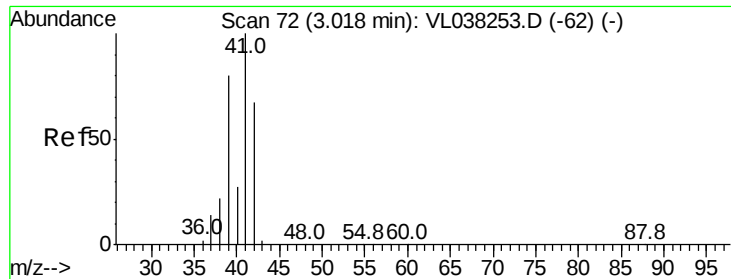
Tgt Ion: 85 Resp: 135239

Ion Ratio Lower Upper

85 100

135 72.0 53.7 80.5





#9

Propene

Concen: 0.867 ppbv

RT: 3.02 Instrument: MSVOA\_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: VSTDIC001

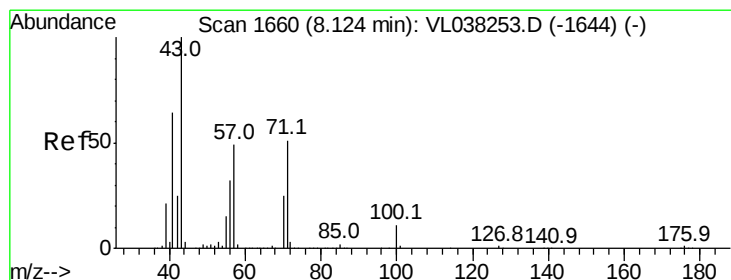
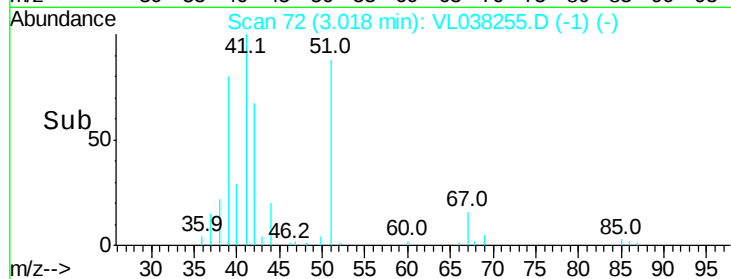
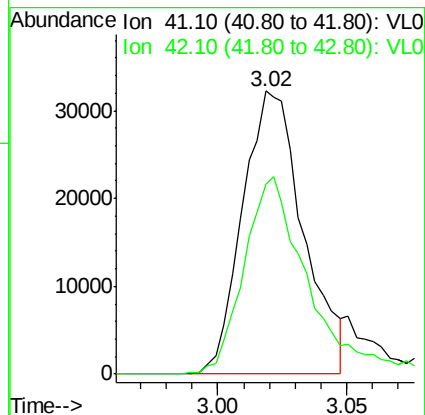
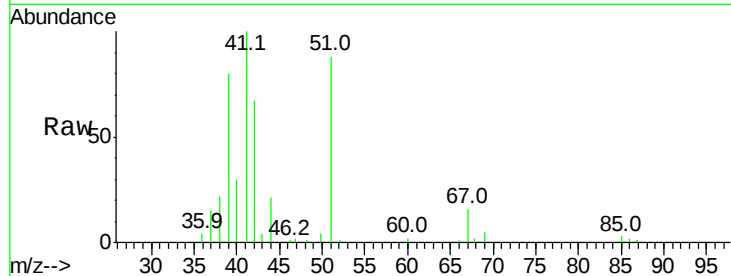
Acq: 24 Jan 2022 10:45

Tgt Ion: 41 Resp: 53105

Ion Ratio Lower Upper

41 100

42 75.9 54.9 82.3



#10

Heptane

Concen: 0.895 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL038255.D

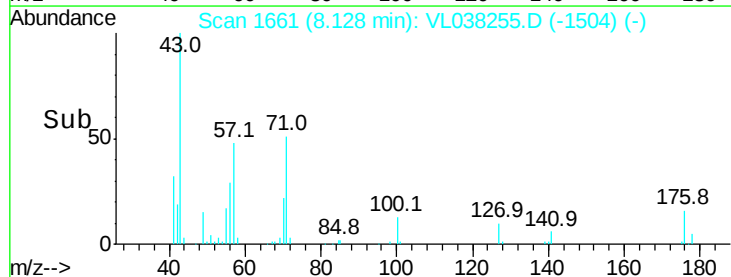
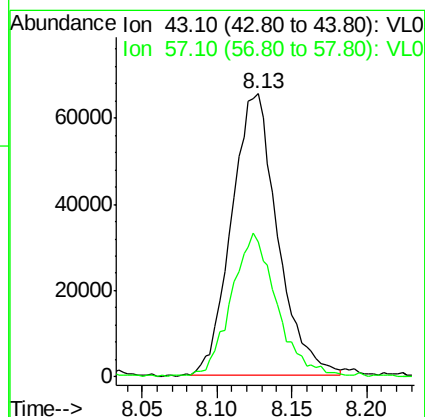
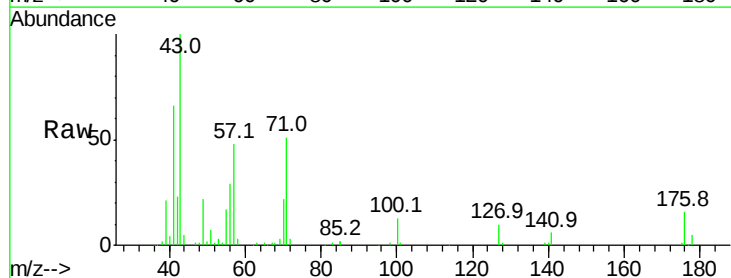
Acq: 24 Jan 2022 10:45

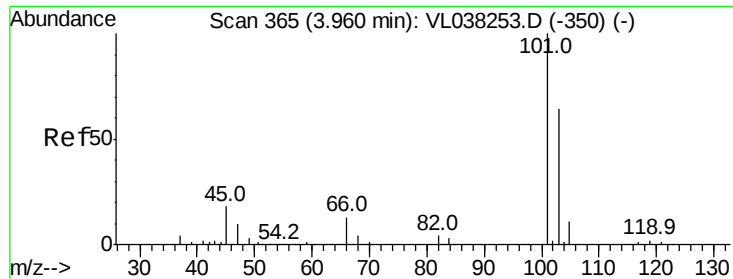
Tgt Ion: 43 Resp: 139155

Ion Ratio Lower Upper

43 100

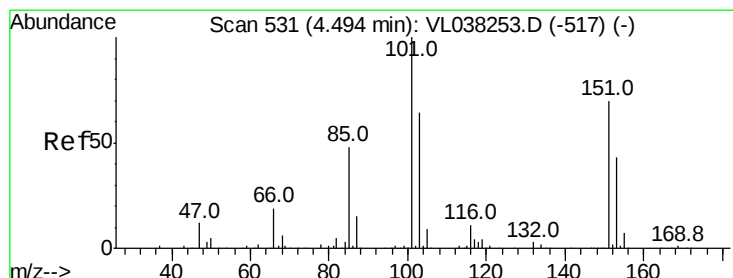
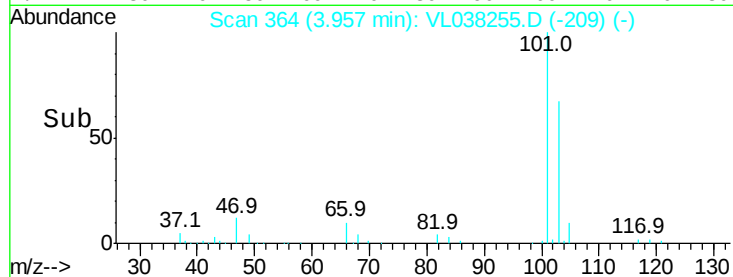
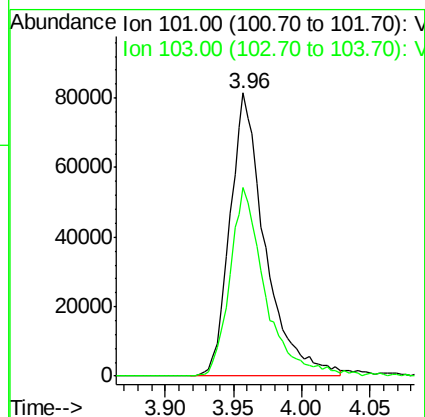
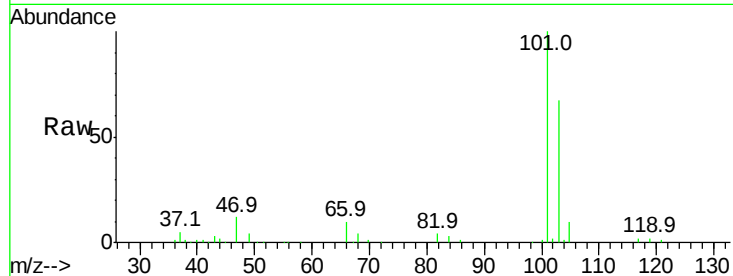
57 51.4 39.5 59.3





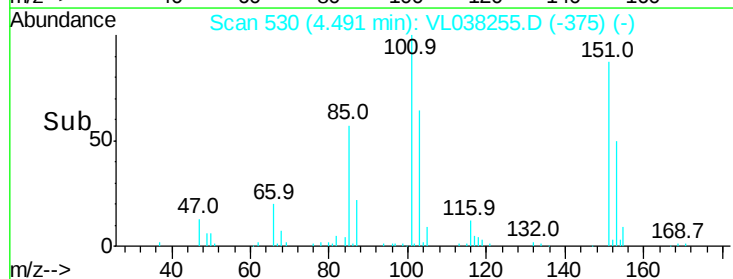
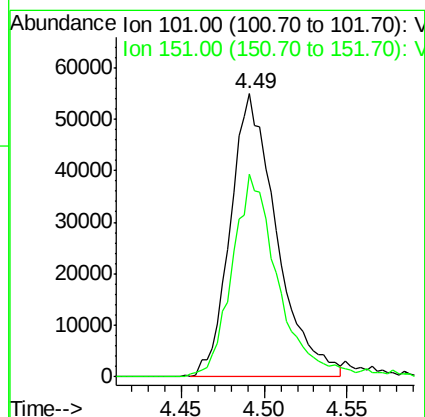
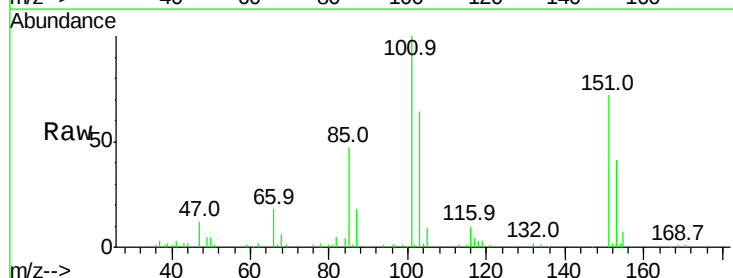
#11  
 Trichlorofluoromethane  
 Concen: 1.005 ppbv  
 RT: 3.96  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

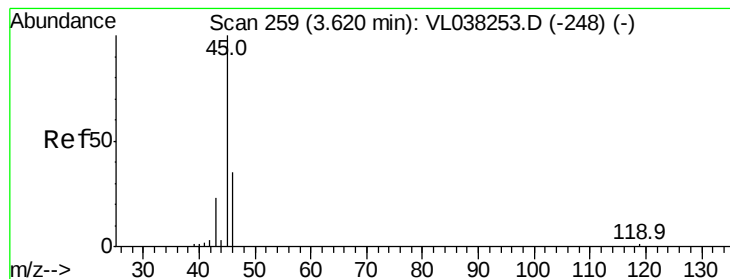
Tgt Ion:101 Resp: 146112  
 Ion Ratio Lower Upper  
 101 100  
 103 66.7 51.2 76.8



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.973 ppbv  
 RT: 4.49 min Scan# 530  
 Delta R.T. -0.00 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

Tgt Ion:101 Resp: 106790  
 Ion Ratio Lower Upper  
 101 100  
 151 72.1 55.3 82.9





#13

Ethanol

Concen: 0.445 ppbv

RT: 3.63 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

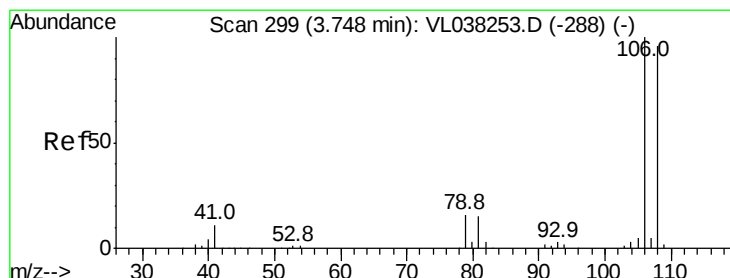
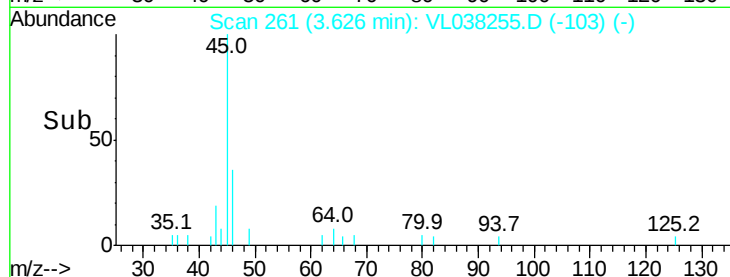
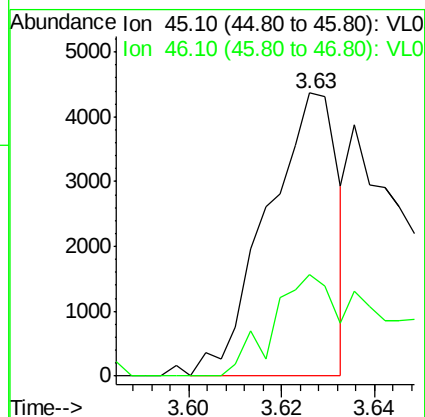
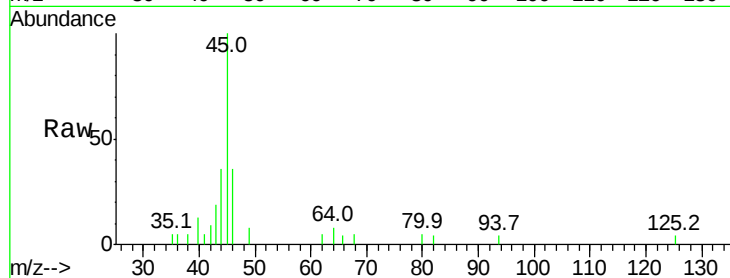
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 45 Resp: 4620

Ion Ratio Lower Upper

45 100

46 76.1 15.4 61.6#



#14

Bromoethene

Concen: 0.968 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

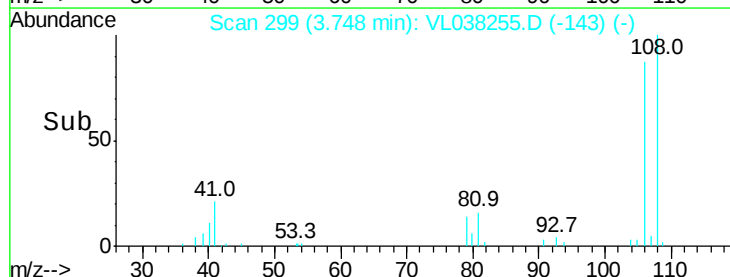
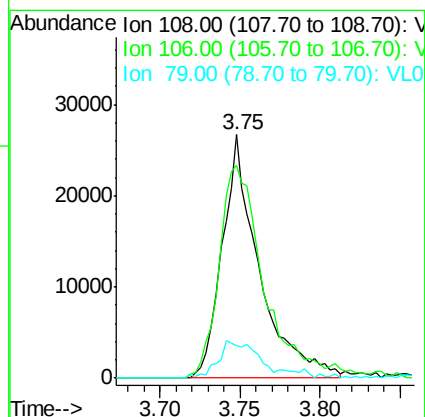
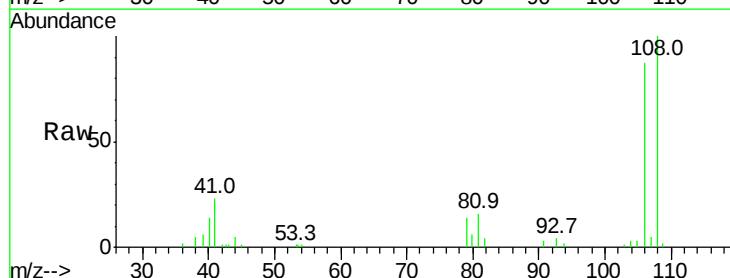
Tgt Ion: 108 Resp: 42345

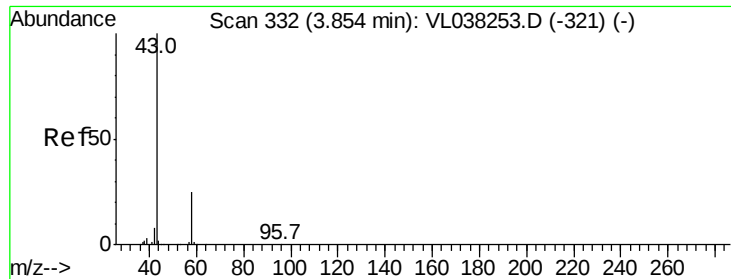
Ion Ratio Lower Upper

108 100

106 108.4 86.4 129.6

79 18.9 14.1 21.1





#15

Acetone

Concen: 0.952 ppbv

RT: 3.87 Instrument :

Delta R.T. MSVOA\_1

Lab File: ClientSampleId :

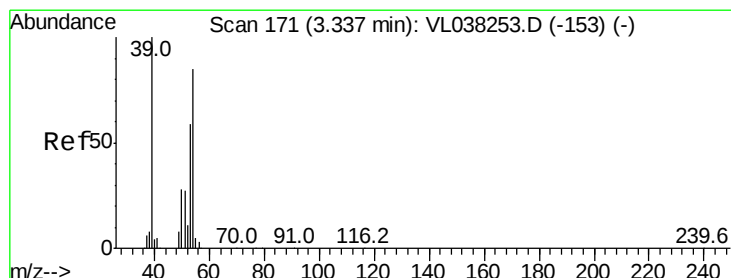
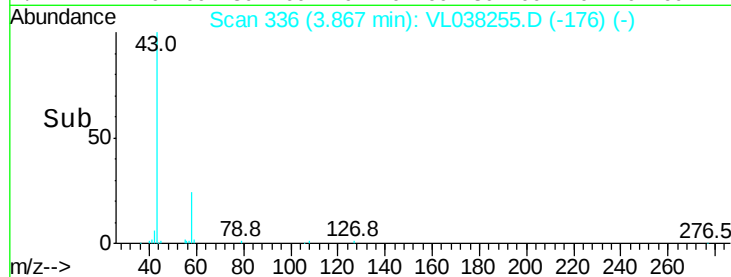
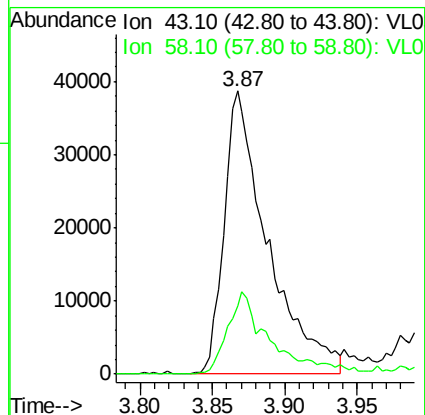
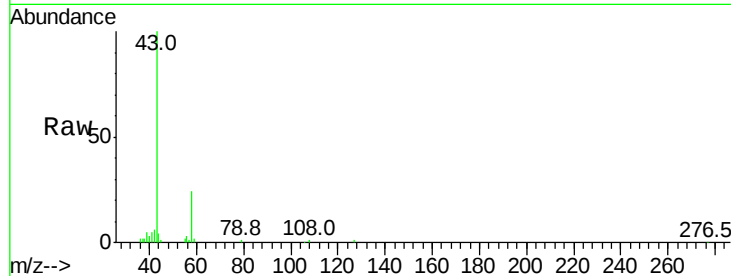
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 43 Resp: 80265

Ion Ratio Lower Upper

43 100

58 29.0 21.5 32.3



#16

1,3-Butadiene

Concen: 0.882 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.00 min

Lab File: VL038255.D

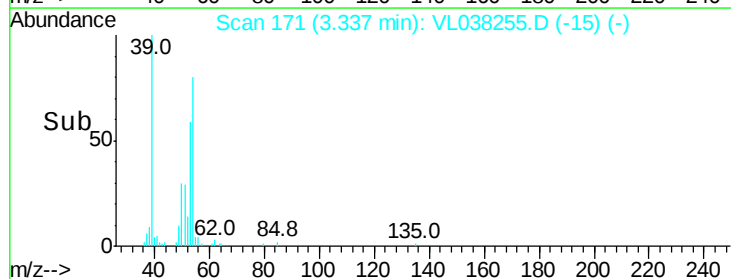
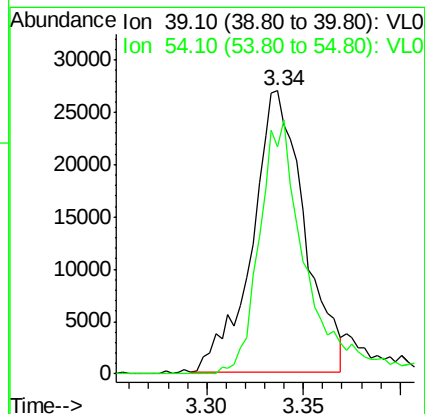
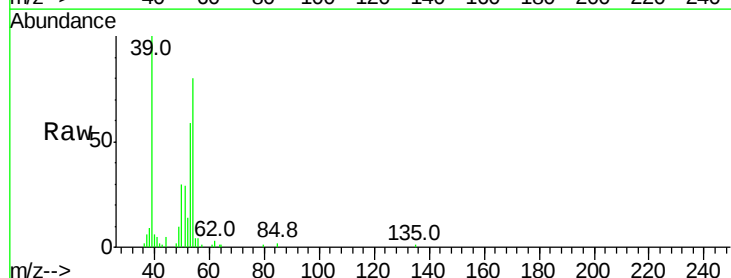
Acq: 24 Jan 2022 10:45

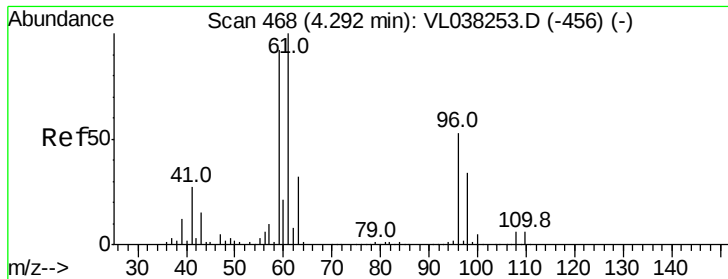
Tgt Ion: 39 Resp: 50639

Ion Ratio Lower Upper

39 100

54 81.5 62.6 94.0





#17

tert-Butyl alcohol

Concen: 0.795 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

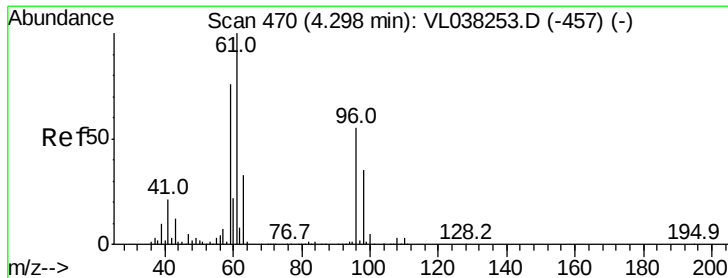
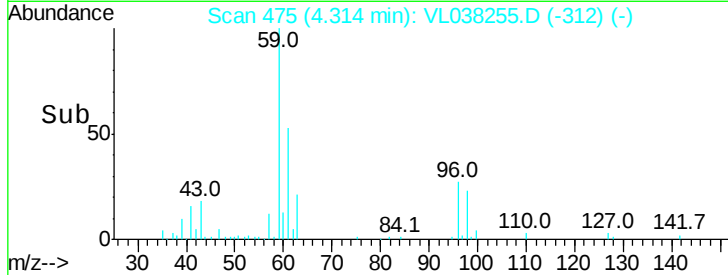
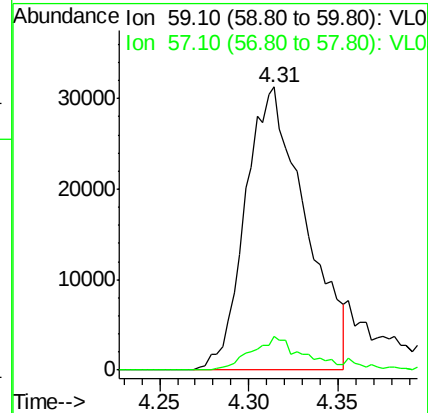
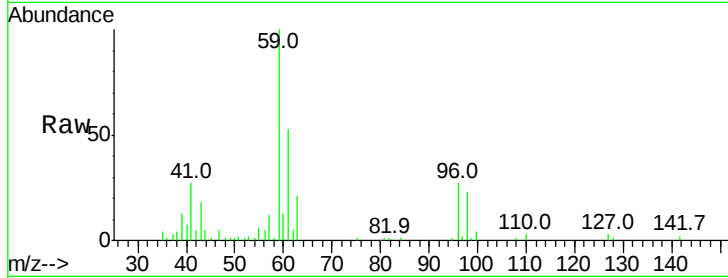
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 59 Resp: 73559

Ion Ratio Lower Upper

59 100

57 11.6 9.2 13.8



#18

1,1-Dichloroethene

Concen: 0.997 ppbv

RT: 4.29 min Scan# 469

Delta R.T. -0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

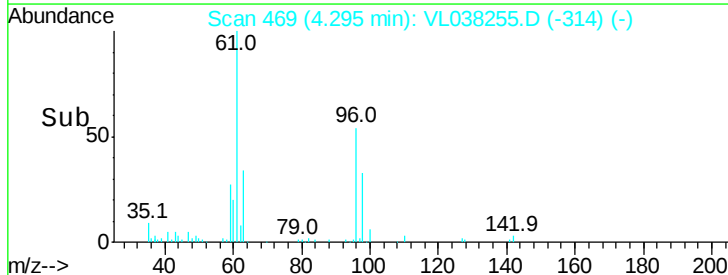
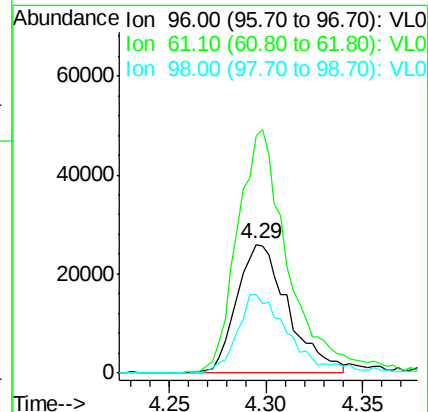
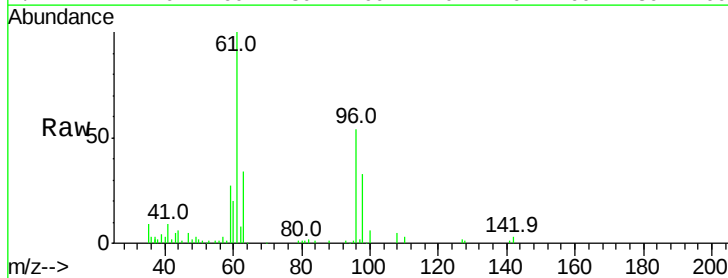
Tgt Ion: 96 Resp: 47938

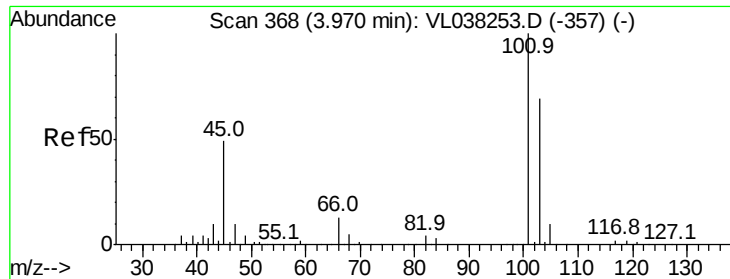
Ion Ratio Lower Upper

96 100

61 183.3 146.5 219.7

98 60.8 51.9 77.9





#19

Isopropyl Alcohol

Concen: 0.324 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

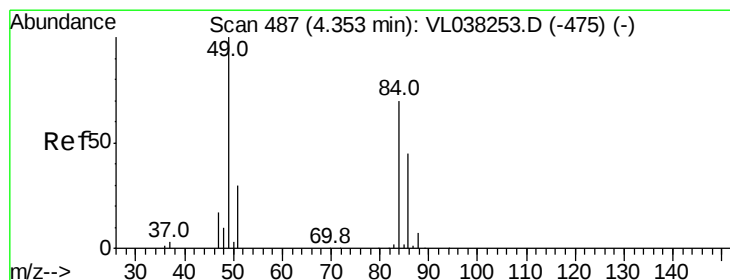
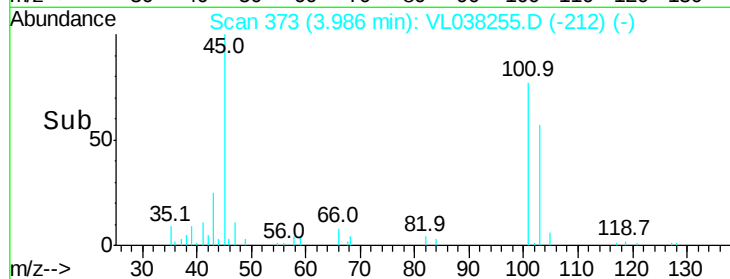
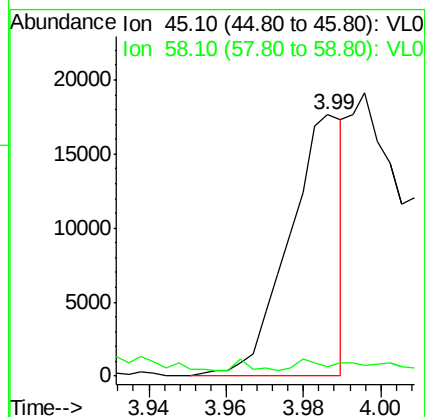
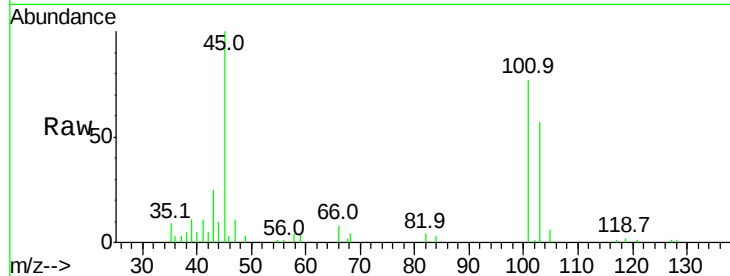
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 45 Resp: 17051

Ion Ratio Lower Upper

45 100

58 16.0 2.3 3.5#



#20

Methylene Chloride

Concen: 0.901 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion: 84 Resp: 42873

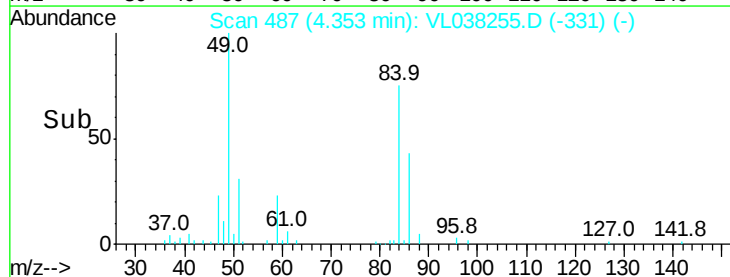
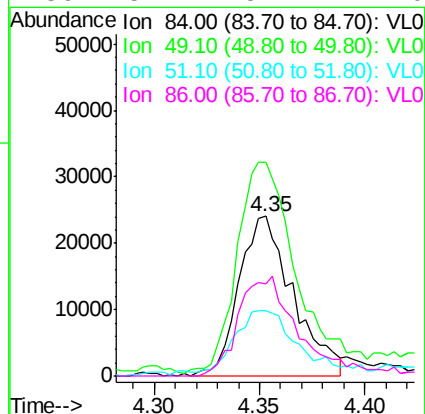
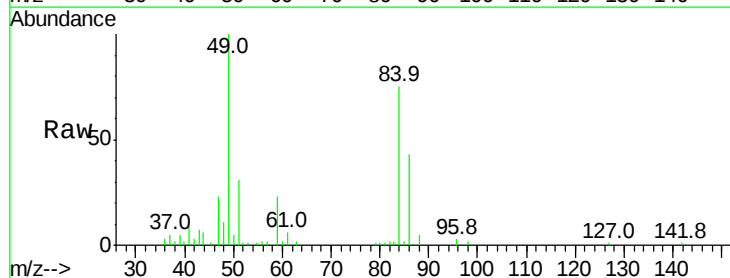
Ion Ratio Lower Upper

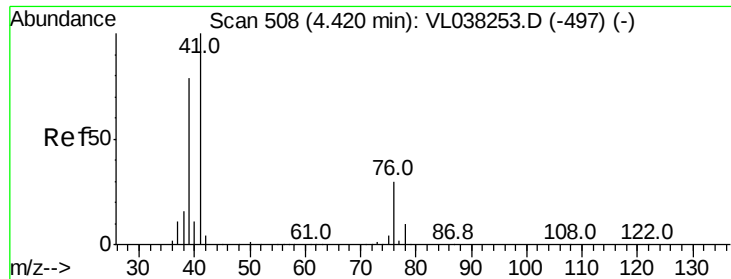
84 100

49 129.9 115.0 172.6

51 38.8 35.0 52.6

86 57.4 51.4 77.0





#21

Allyl Chloride

Concen: 0.883 ppbv

RT: 4.42

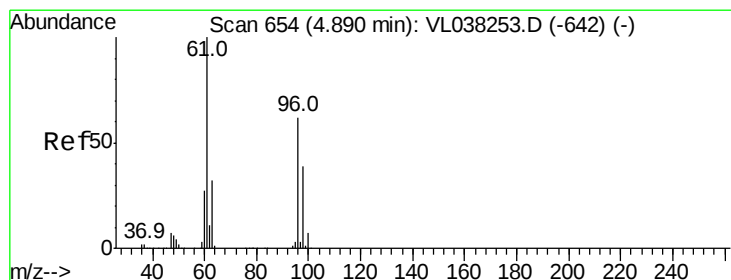
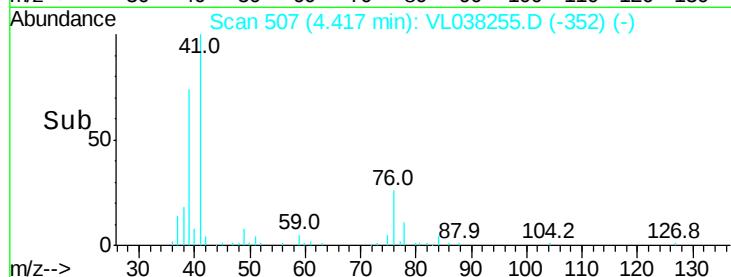
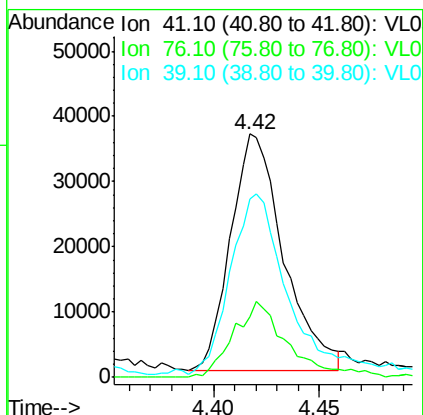
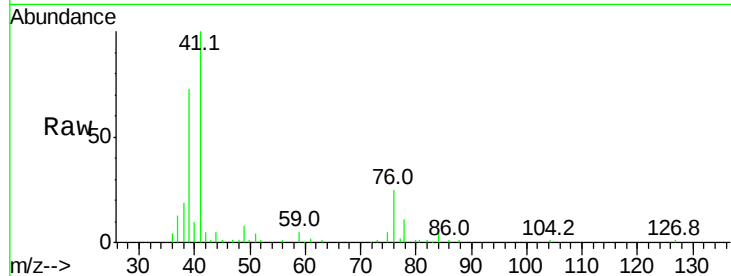
Delta R.T. MSVOA\_L

Lab File: ClientSampleId : VSTDIC001

Acq: 24 Jan 2022 10:45

Tgt Ion: 41 Resp: 62971

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 76  | 33.5  | 25.0  | 37.6  |
| 39  | 91.7  | 63.0  | 94.6  |



#22

trans-1,2-Dichloroethene

Concen: 0.447 ppbv

RT: 4.89 min Scan# 655

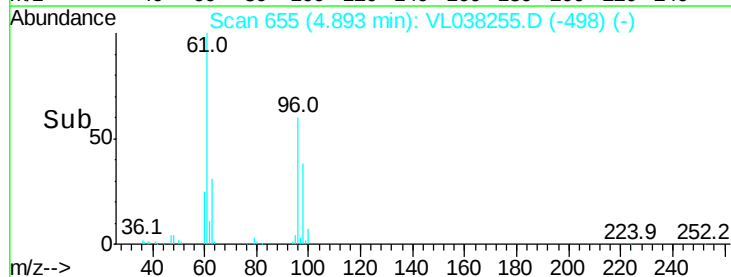
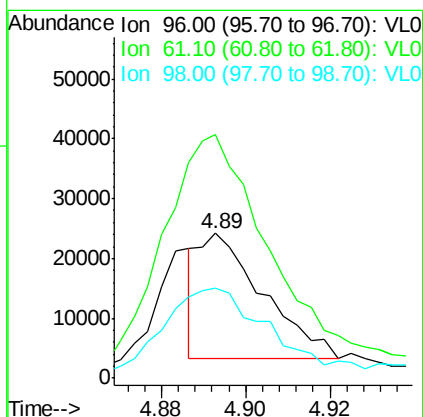
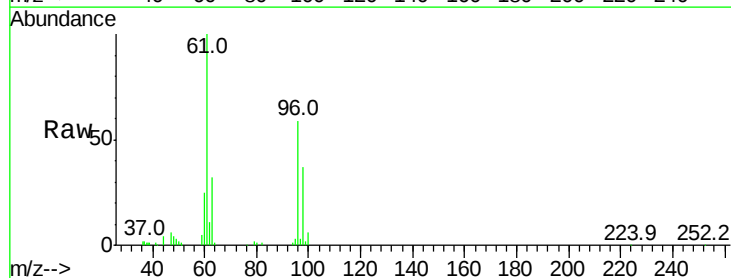
Delta R.T. 0.00 min

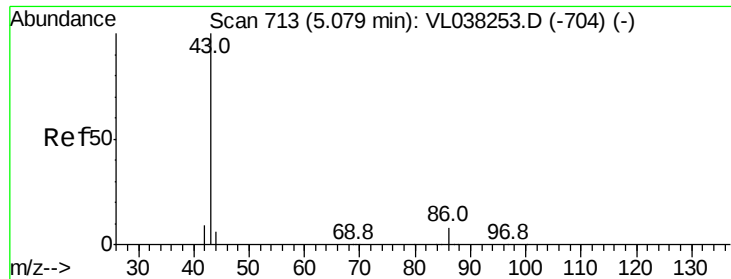
Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion: 96 Resp: 21943

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 155.4 | 128.8 | 193.2 |
| 98  | 58.0  | 49.8  | 74.8  |





#23

Vinyl Acetate

Concen: 0.883 ppbv

RT: 5.08 Instrument: MSVOA\_1

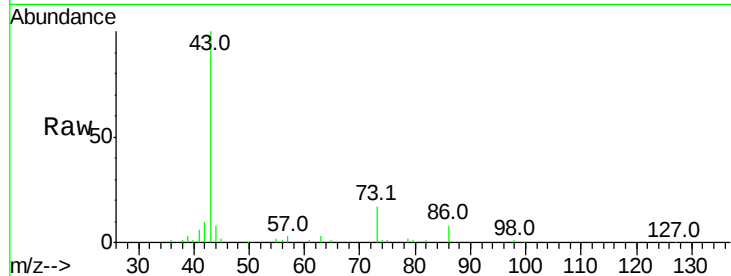
Delta R.T. ClientSampleId:

Lab File: VSTDIC001

Acq: 24 Jan 2022 10:45

Tgt Ion: 43 Resp: 100723

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 8.8   | 5.7   | 8.5#  |
| 42  | 10.1  | 7.7   | 11.5  |
| 44  | 4.6   | 4.2   | 6.4   |

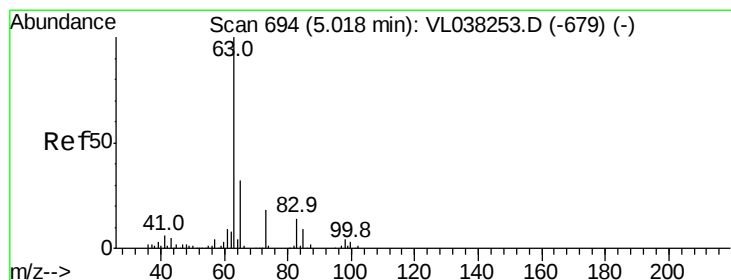
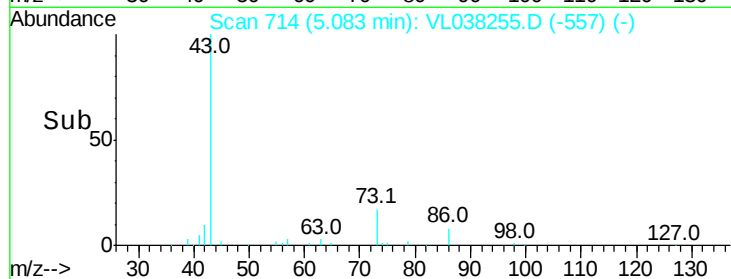
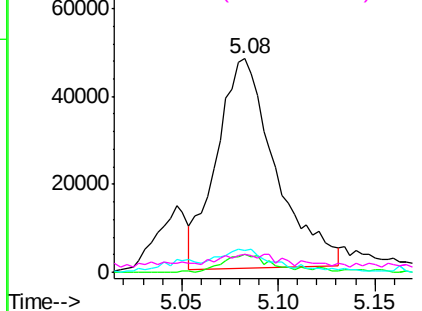


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.981 ppbv

RT: 5.02 min Scan# 693

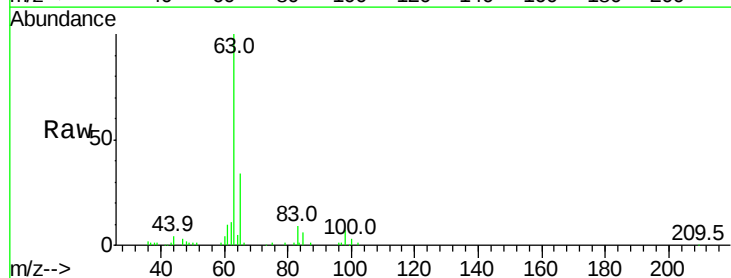
Delta R.T. -0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion: 63 Resp: 100097

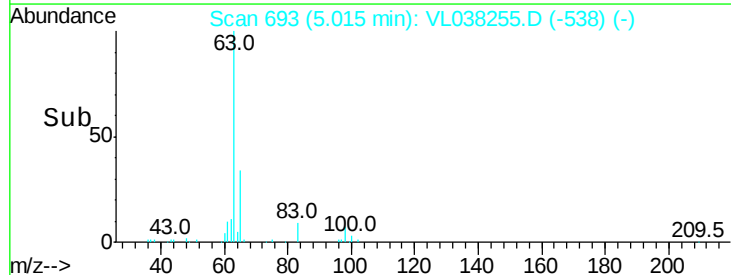
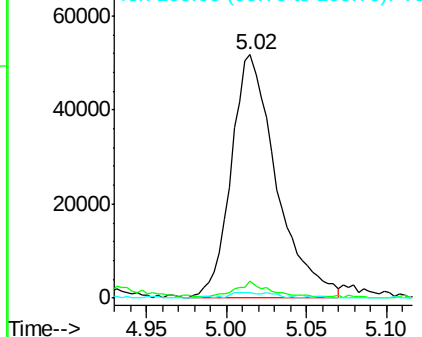
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 5.8   | 2.3   | 6.8   |
| 100 | 2.5   | 1.3   | 3.9   |

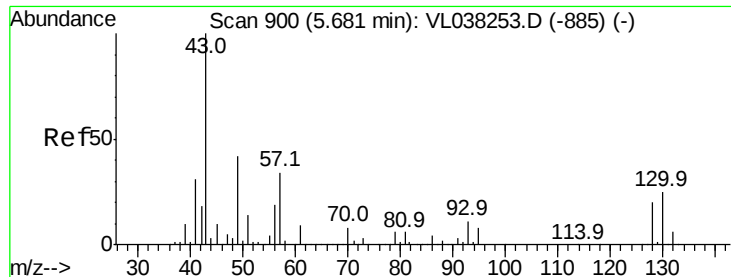


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.958 ppbv

RT: 5.69 Instrument: MSVOA\_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: VSTDIC001

Acq: 24 Jan 2022 10:45

Tgt Ion: 43 Resp: 218750

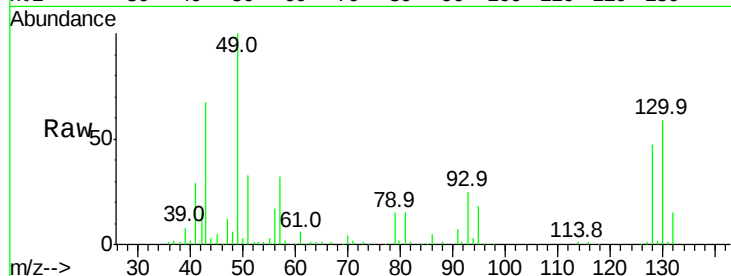
Ion Ratio Lower Upper

43 100

45 10.1 7.9 11.9

61 11.1 7.8 11.8

70 6.5 5.4 8.0

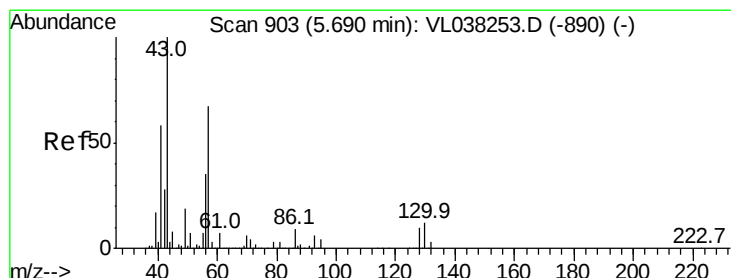
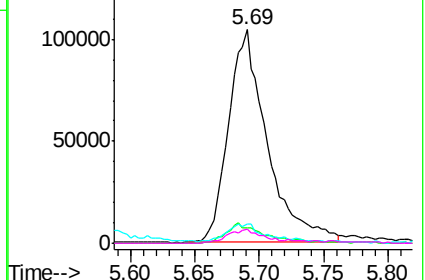
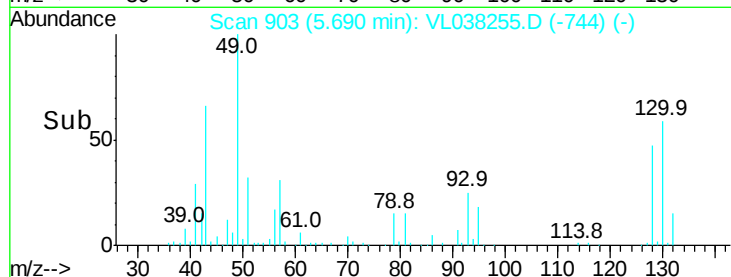


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.851 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion: 57 Resp: 97443

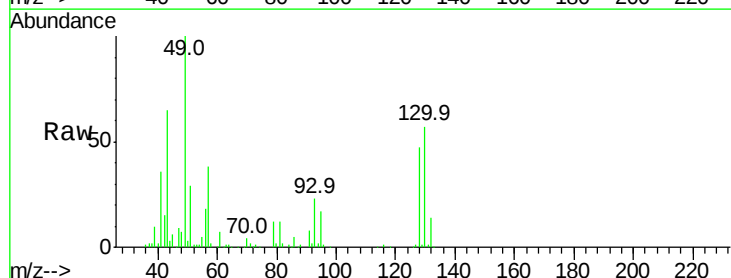
Ion Ratio Lower Upper

57 100

41 98.6 72.8 109.2

43 232.2 177.0 265.6

56 55.2 43.3 64.9

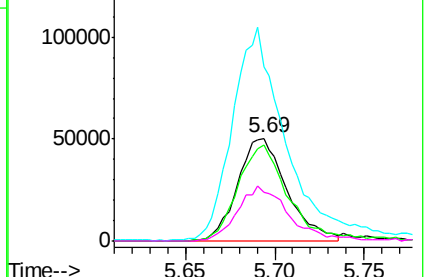
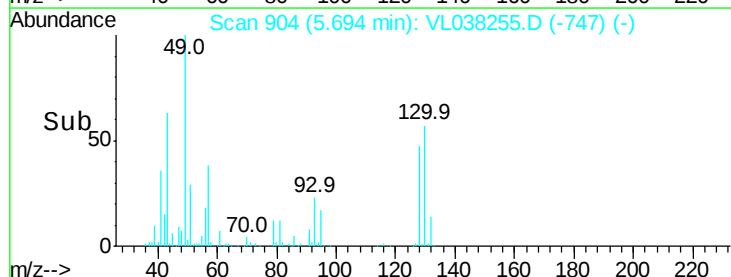


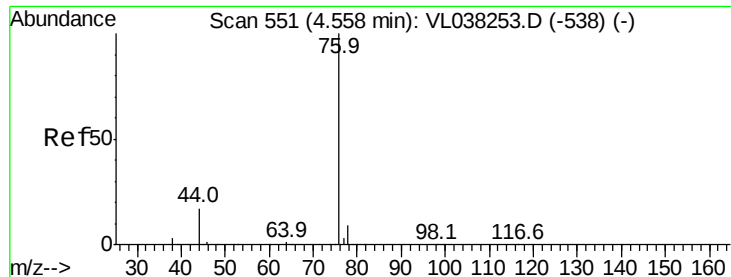
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.107 ppbv

RT: 4.56 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 24 Jan 2022 10:45

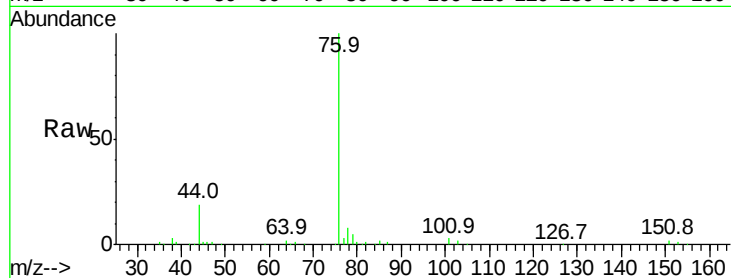
Tgt Ion: 76 Resp: 111650

Ion Ratio Lower Upper

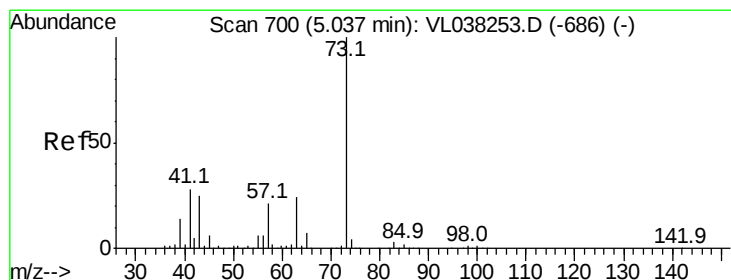
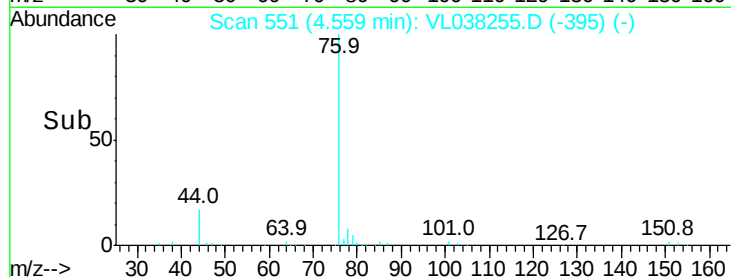
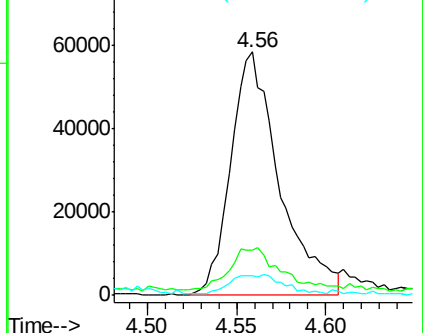
76 100

44 19.7 14.8 22.2

78 11.5 7.9 11.9



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



#28

Methyl tert-Butyl Ether

Concen: 0.861 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.01 min

Lab File: VL038255.D

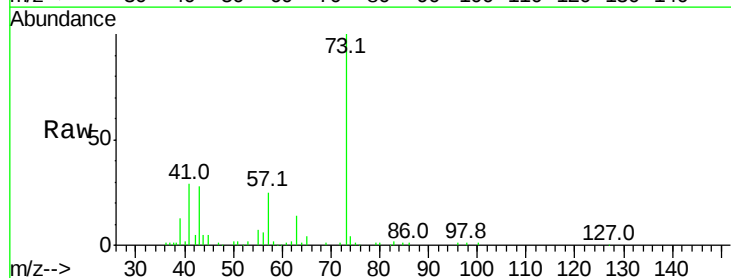
Acq: 24 Jan 2022 10:45

Tgt Ion: 73 Resp: 99100

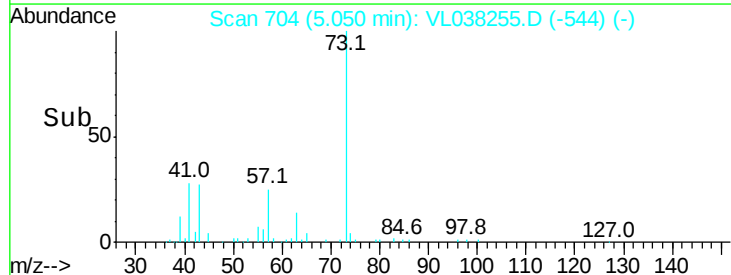
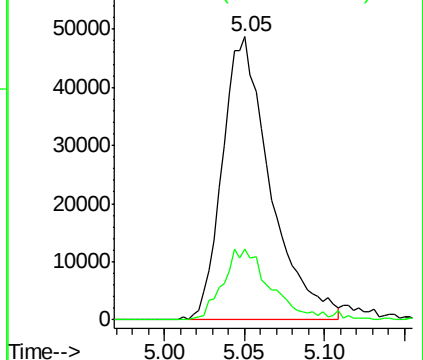
Ion Ratio Lower Upper

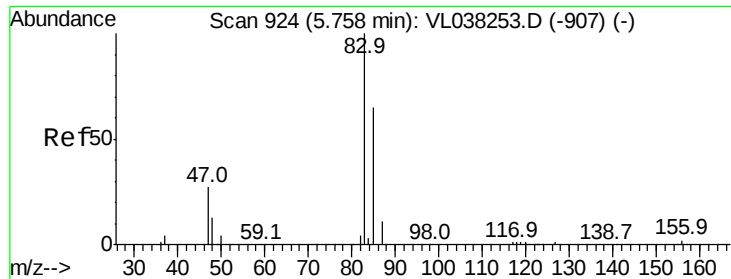
73 100

57 25.8 18.2 27.4



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





#29

Chloroform

Concen: 0.974 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

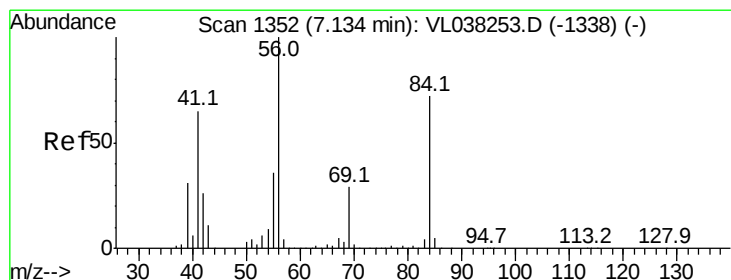
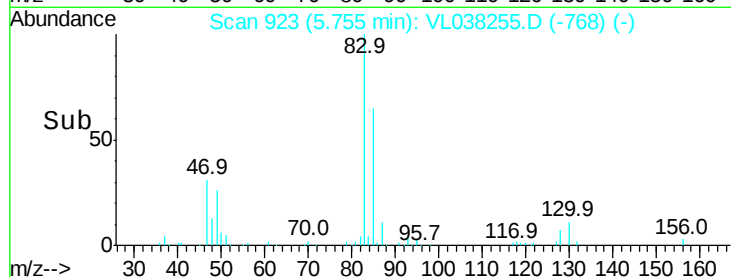
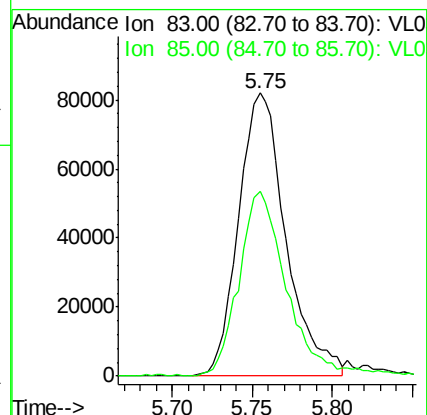
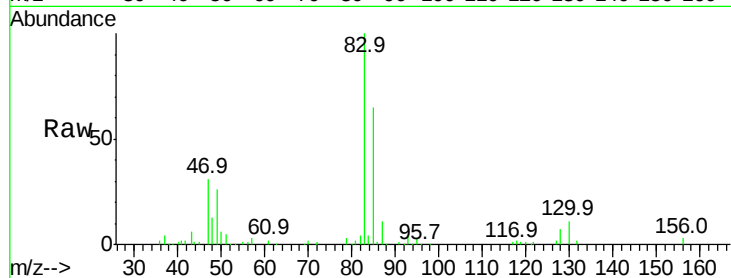
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 83 Resp: 165528

Ion Ratio Lower Upper

83 100

85 64.9 51.9 77.9



#30

Cyclohexane

Concen: 0.405 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

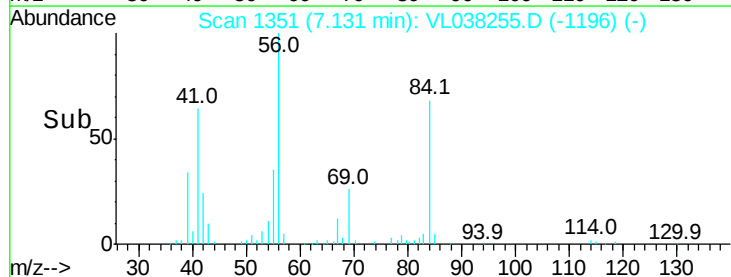
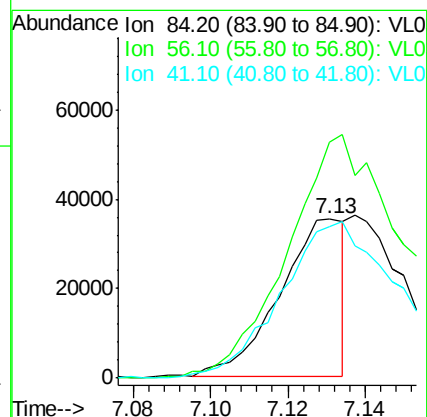
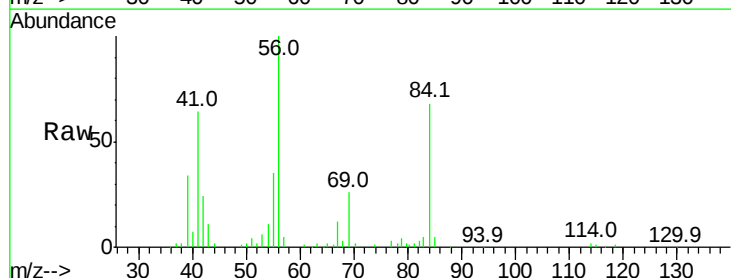
Tgt Ion: 84 Resp: 41064

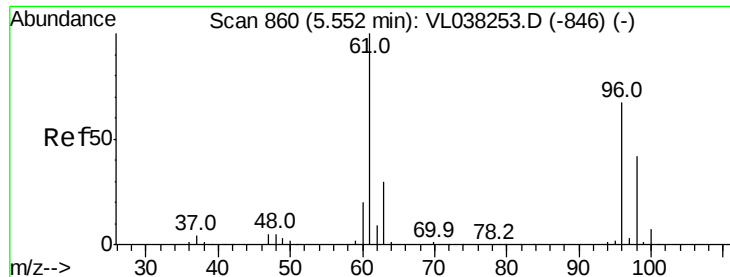
Ion Ratio Lower Upper

84 100

56 0.0 112.7 169.1#

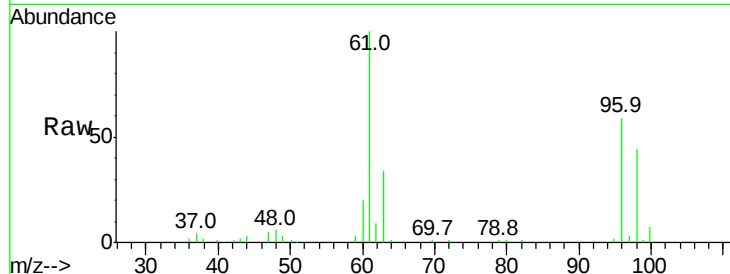
41 0.0 71.1 106.7#



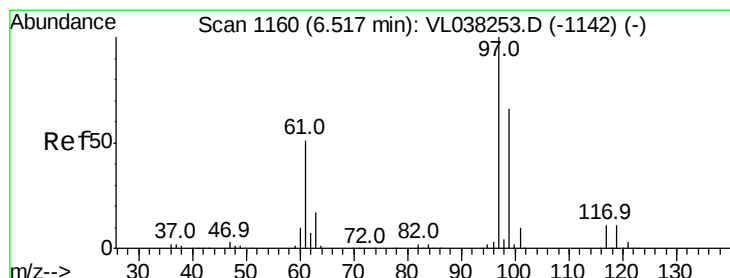
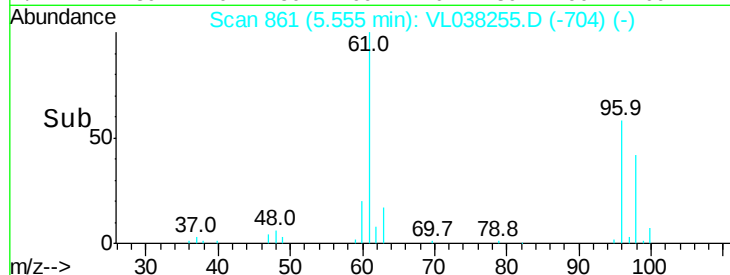
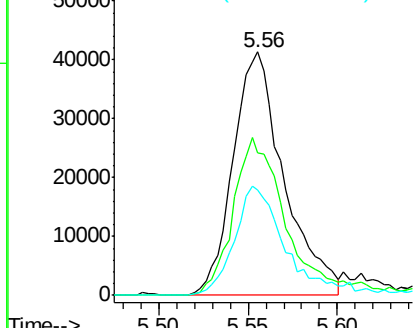


#31  
 cis-1,2-Dichloroethene  
 Concen: 0.917 ppbv  
 RT: 5.56  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

Tgt Ion: 61 Resp: 82408  
 Ion Ratio Lower Upper  
 61 100  
 96 58.5 53.3 79.9  
 98 43.5 33.7 50.5

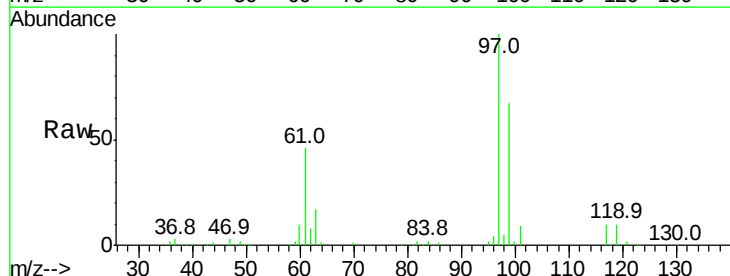


Abundance Ion 61.10 (60.80 to 61.80): VL0  
 Ion 96.00 (95.70 to 96.70): VL0  
 Ion 98.00 (97.70 to 98.70): VL0

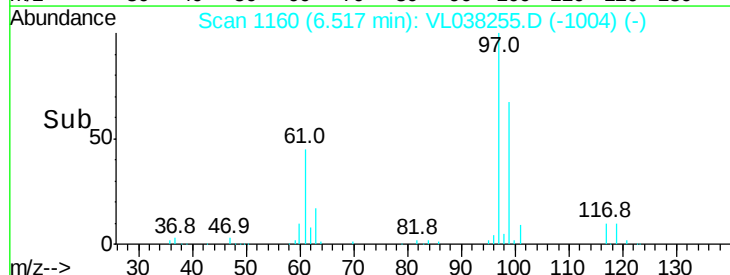
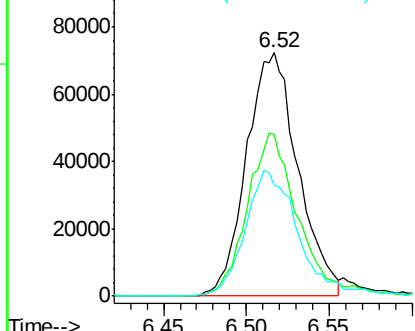


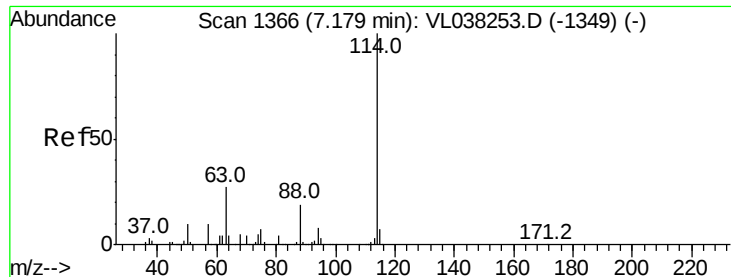
#32  
 1,1,1-Trichloroethane  
 Concen: 0.928 ppbv  
 RT: 6.52 min Scan# 1160  
 Delta R.T. 0.00 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

Tgt Ion: 97 Resp: 156458  
 Ion Ratio Lower Upper  
 97 100  
 99 67.0 51.5 77.3  
 61 53.9 40.5 60.7



Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0  
 Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC001

Acq: 24 Jan 2022 10:45

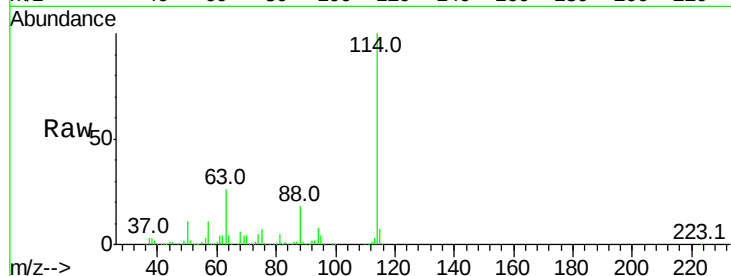
Tgt Ion: 114 Resp: 2253915

Ion Ratio Lower Upper

114 100

63 27.1 22.0 33.0

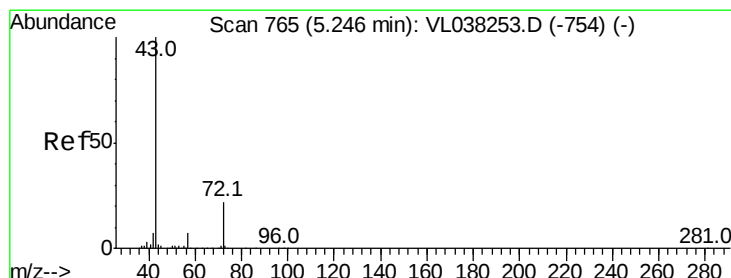
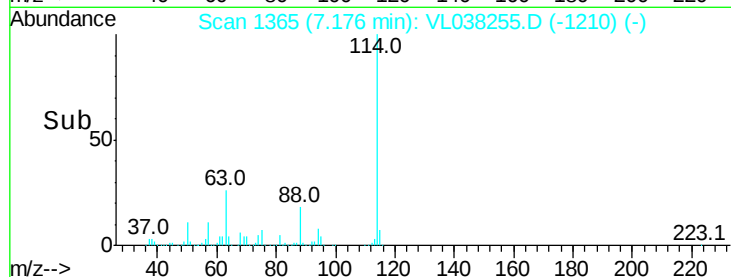
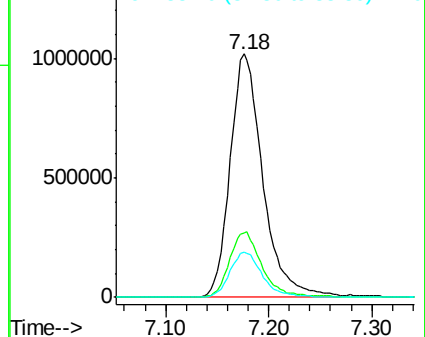
88 18.9 15.0 22.6



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: 1.009 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.01 min

Lab File: VL038255.D

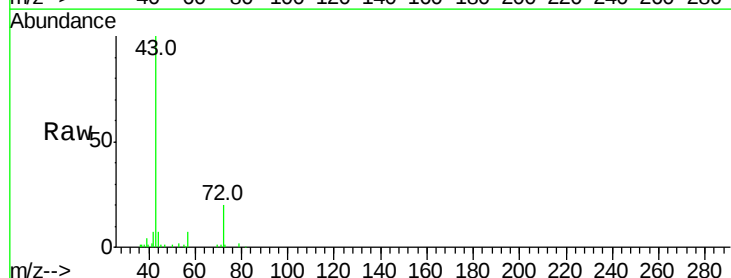
Acq: 24 Jan 2022 10:45

Tgt Ion: 43 Resp: 68364

Ion Ratio Lower Upper

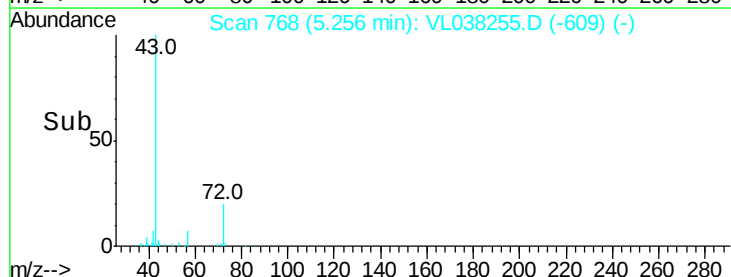
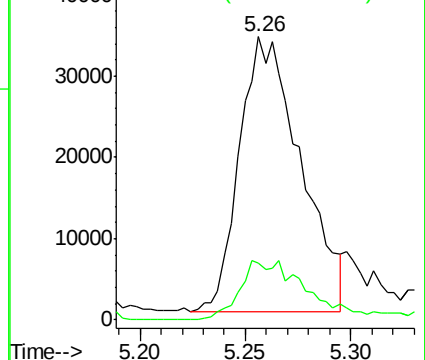
43 100

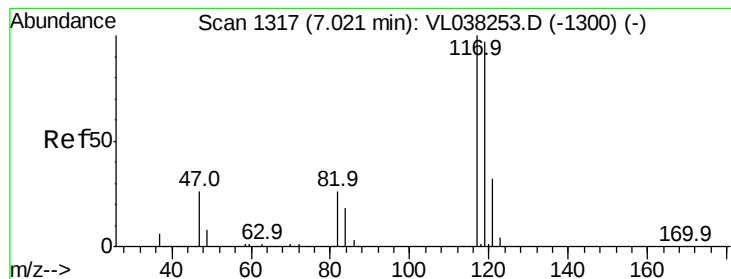
72 26.3 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.170 ppbv

RT: 7.02

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 10:45

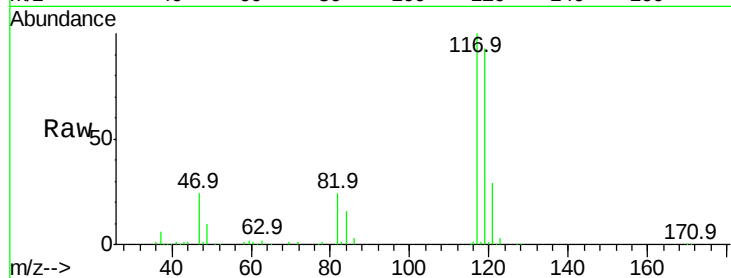
Tgt Ion: 117 Resp: 162804

Ion Ratio Lower Upper

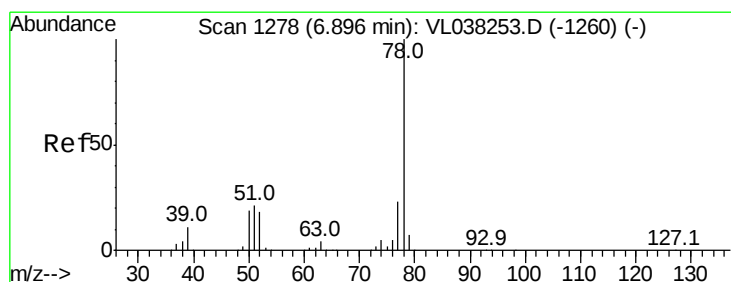
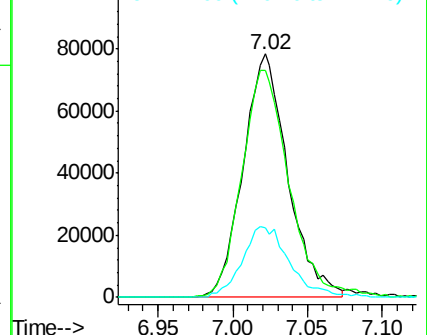
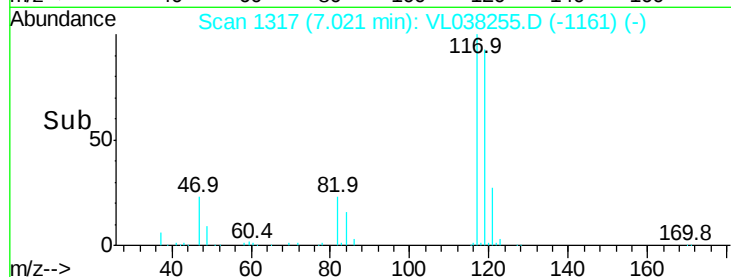
117 100

119 93.3 77.9 116.9

121 28.6 25.4 38.2



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: 1.006 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

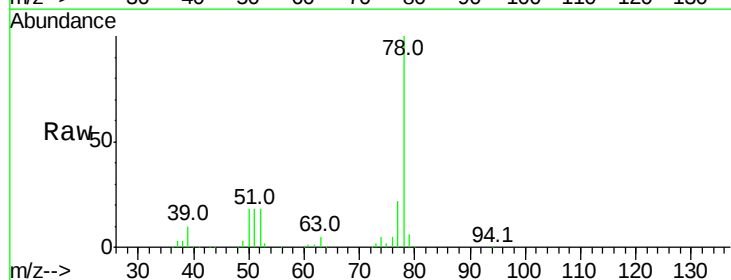
Tgt Ion: 78 Resp: 211541

Ion Ratio Lower Upper

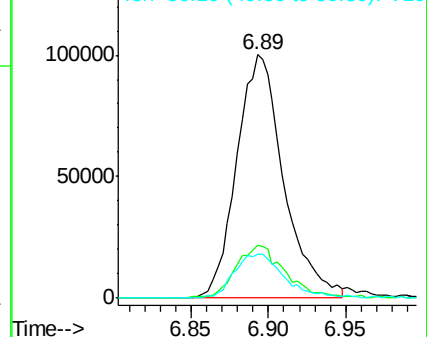
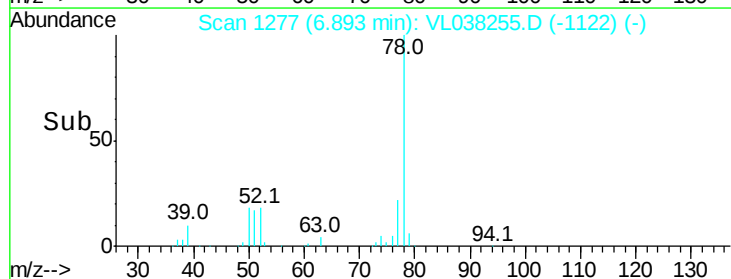
78 100

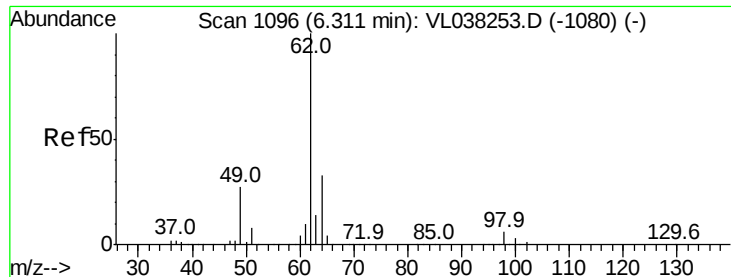
77 21.0 18.2 27.2

50 18.3 15.1 22.7



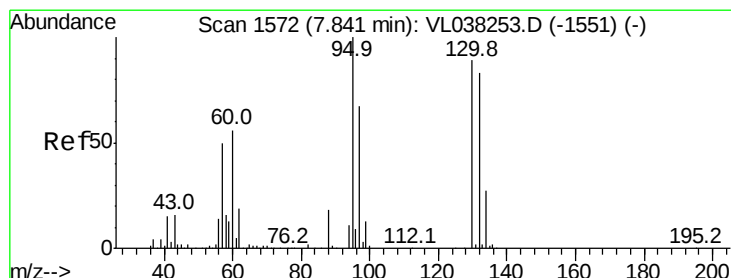
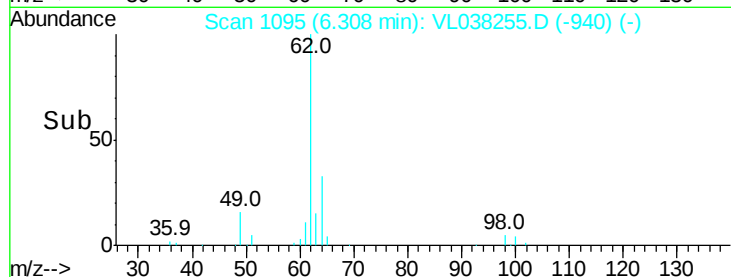
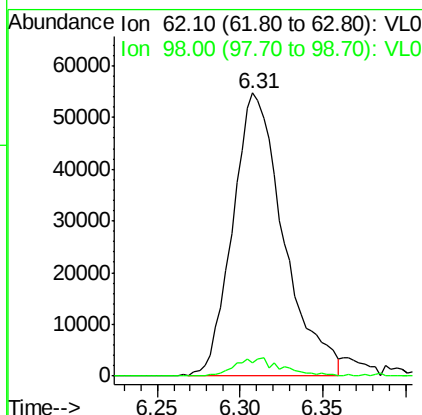
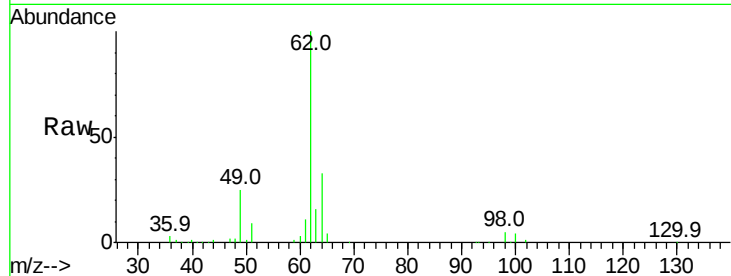
Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0





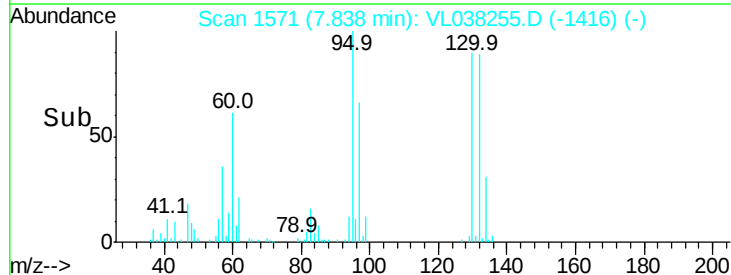
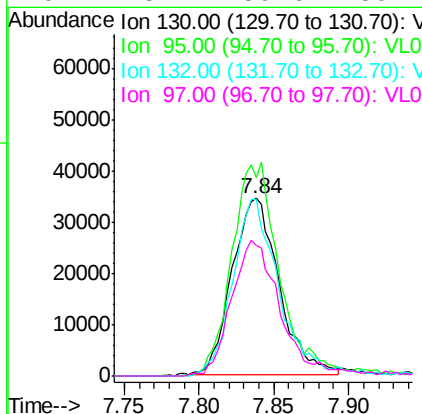
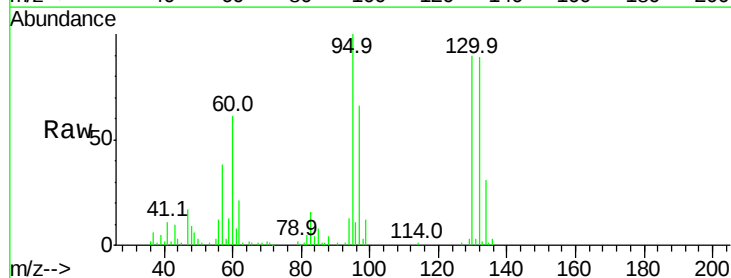
#37  
 1,2-Dichloroethane  
 Concen: 1.109 ppbv  
 RT: 6.31  
 Delta R.T.: MSVOA\_L  
 Lab File: ClientSampleId : VSTDIC001  
 Acq: 24 Jan 2022 10:45

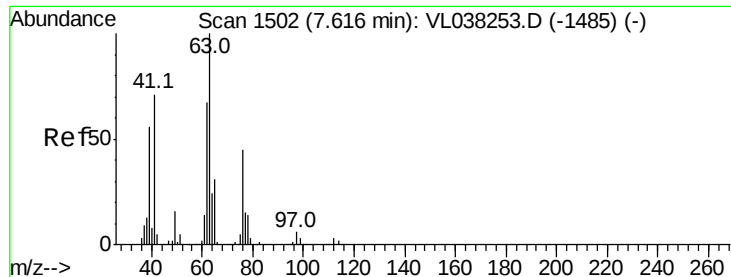
Tgt Ion: 62 Resp: 117005  
 Ion Ratio Lower Upper  
 62 100  
 98 6.0 4.5 6.7



#38  
 Trichloroethene  
 Concen: 0.938 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T.: -0.00 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

Tgt Ion: 130 Resp: 75059  
 Ion Ratio Lower Upper  
 130 100  
 95 112.2 89.4 134.2  
 132 99.9 74.6 111.8  
 97 73.4 59.6 89.4





#39

1,2-Dichloropropane

Concen: 1.039 ppbv

RT: 7.62 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 24 Jan 2022 10:45

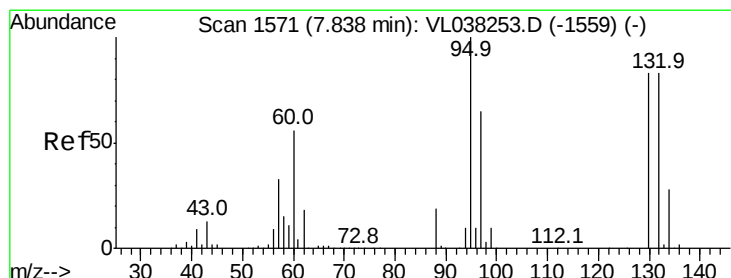
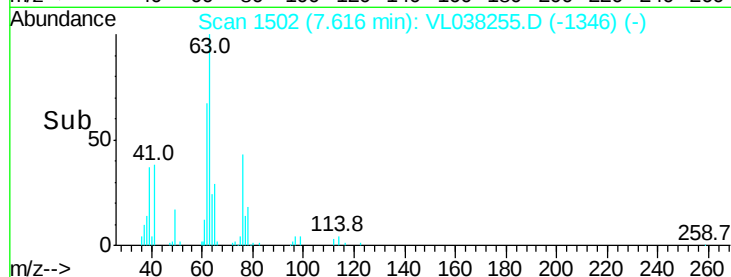
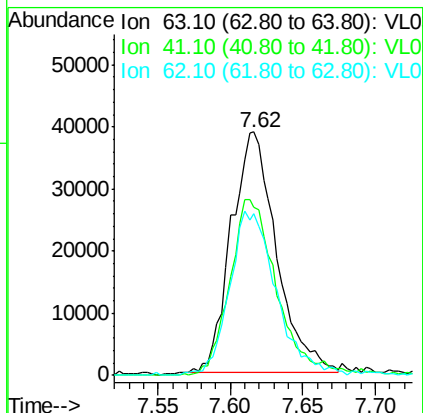
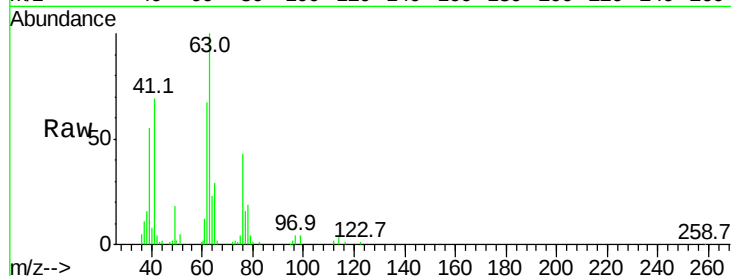
Tgt Ion: 63 Resp: 84066

Ion Ratio Lower Upper

63 100

41 70.0 56.6 85.0

62 65.9 53.9 80.9



#40

1,4-Dioxane

Concen: 0.406 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. 0.02 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion: 88 Resp: 9546

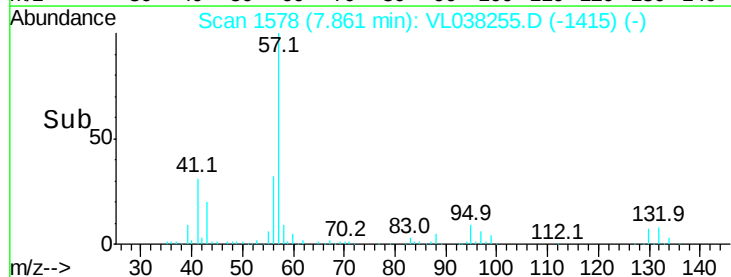
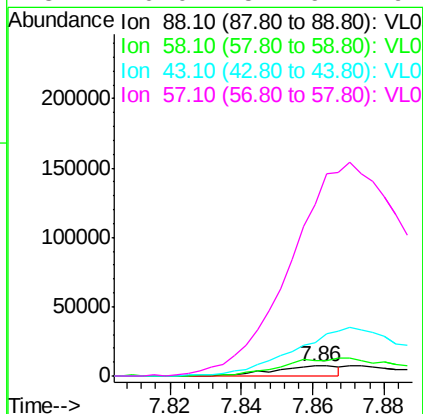
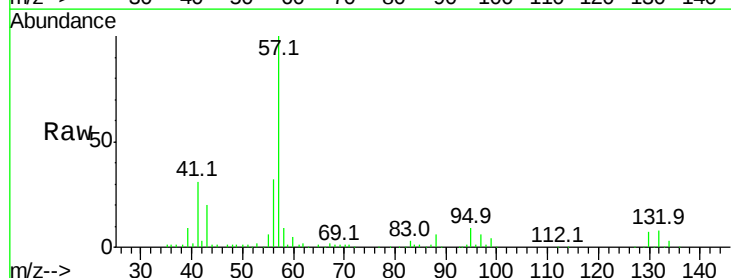
Ion Ratio Lower Upper

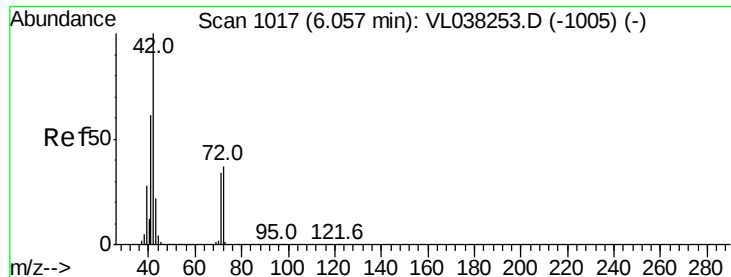
88 100

58 0.0 138.6 208.0#

43 0.0 346.9 520.3#

57 0.0 1527.9 2291.9#





#41

Tetrahydrofuran

Concen: 0.463 ppbv

RT: 6.07 Instrument: MSVOA\_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: VSTDIC001

Acq: 24 Jan 2022 10:45

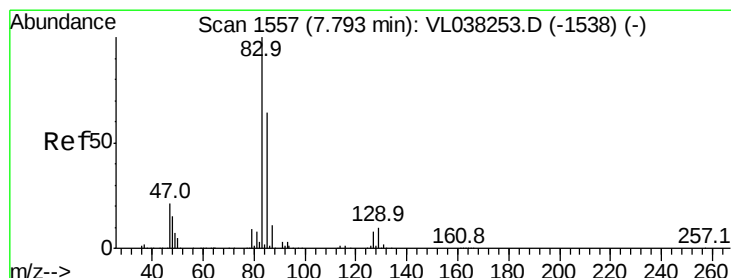
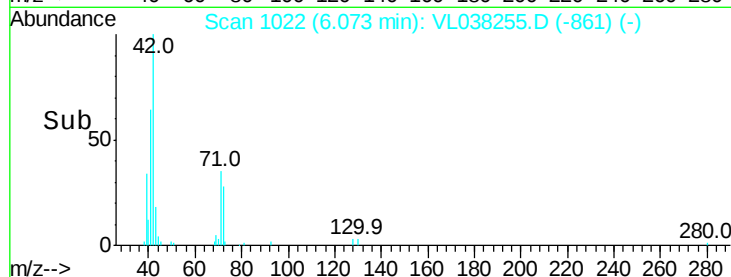
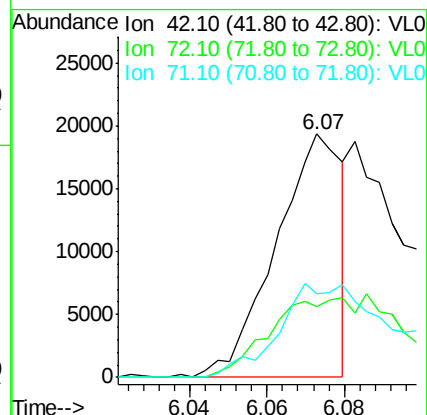
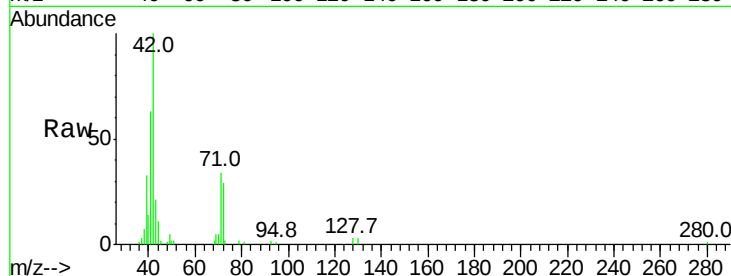
Tgt Ion: 42 Resp: 22980

Ion Ratio Lower Upper

42 100

72 0.0 29.7 44.5#

71 83.8 29.4 44.2#



#42

Bromodichloromethane

Concen: 1.164 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. -0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

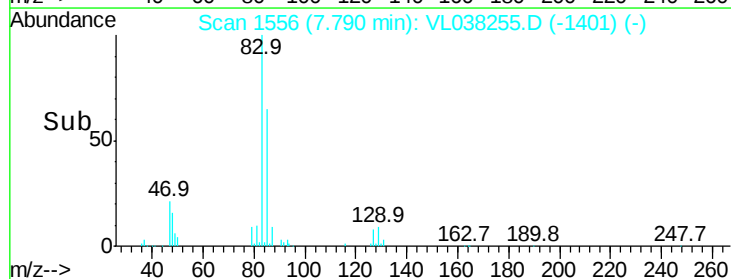
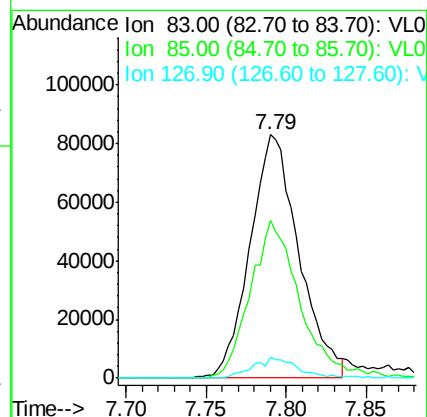
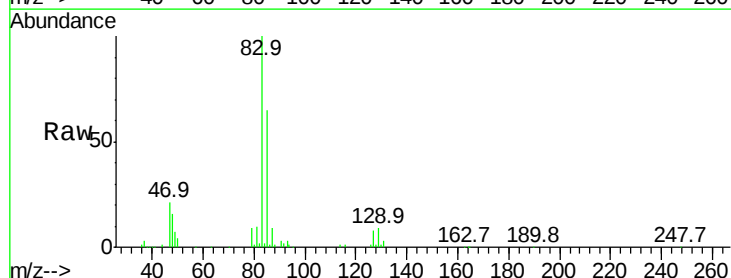
Tgt Ion: 83 Resp: 174709

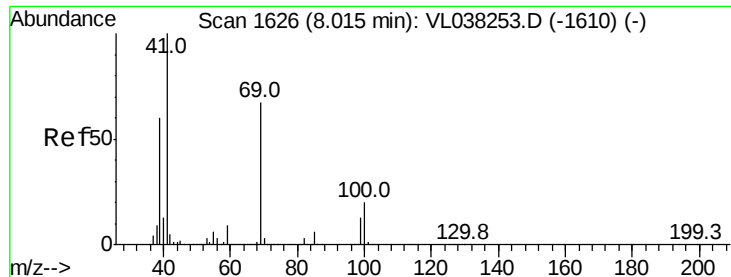
Ion Ratio Lower Upper

83 100

85 64.8 51.5 77.3

127 8.4 6.2 9.4

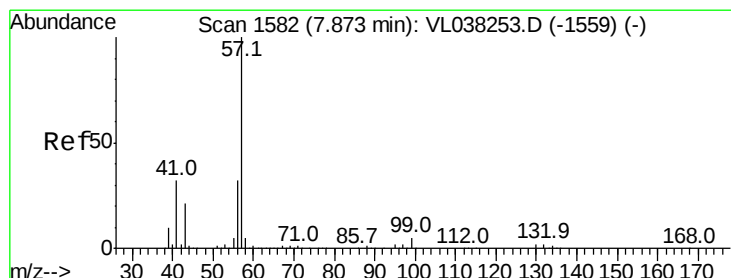
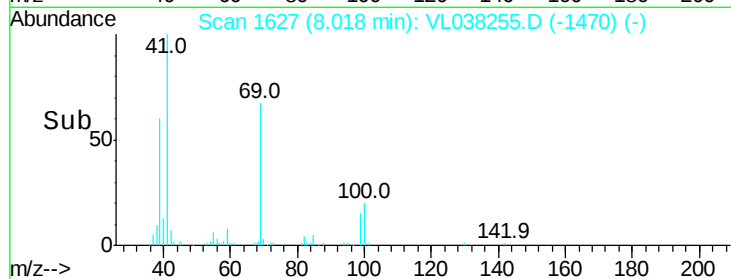
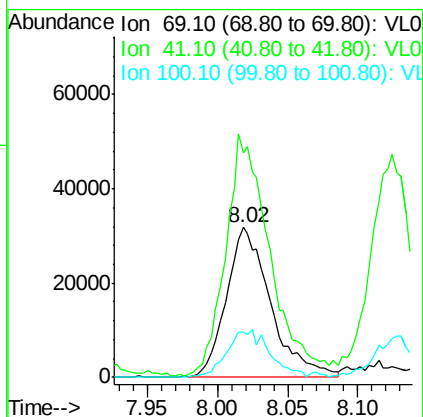
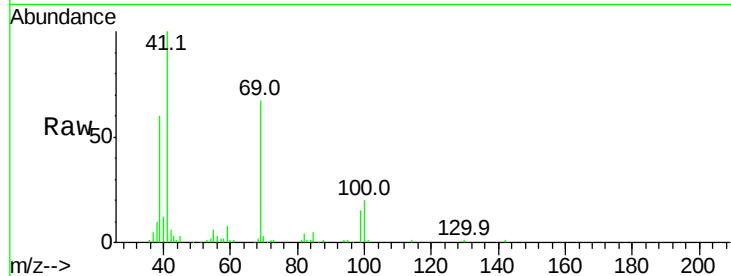




#43  
Methyl Methacrylate  
Concen: 0.964 ppbv  
RT: 8.02 Instrument : MSVOA\_1  
Delta R.T. ClientSampleId :  
Lab File: VSTDIC001  
Acq: 24 Jan 2022 10:45

Tgt Ion: 69 Resp: 69715  

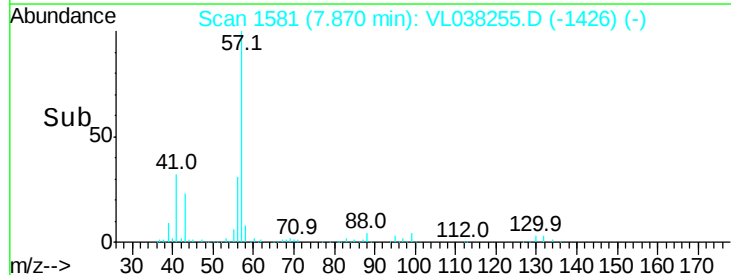
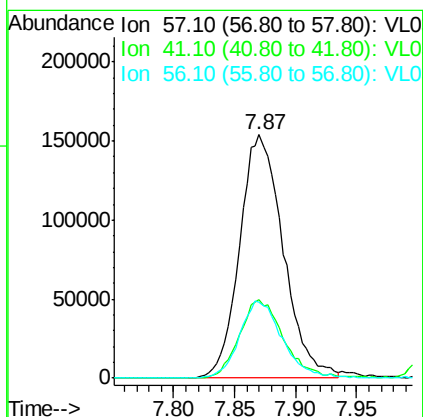
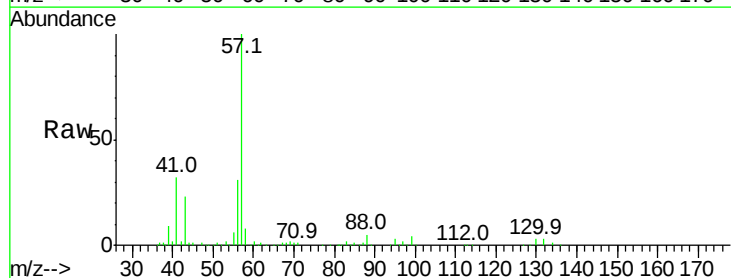
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 164.3 | 120.9 | 181.3 |
| 100 | 31.3  | 23.4  | 35.0  |

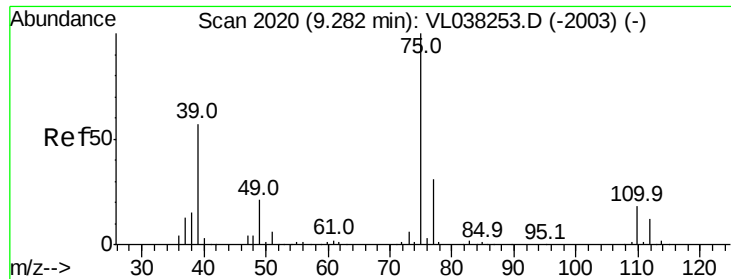


#44  
2,2,4-Trimethylpentane  
Concen: 1.067 ppbv  
RT: 7.87 min Scan# 1581  
Delta R.T. -0.00 min  
Lab File: VL038255.D  
Acq: 24 Jan 2022 10:45

Tgt Ion: 57 Resp: 380997  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 32.9  | 26.3  | 39.5  |
| 56  | 31.3  | 25.2  | 37.8  |





#45

t-1,3-Dichloropropene

Concen: 0.944 ppbv

RT: 9.28 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

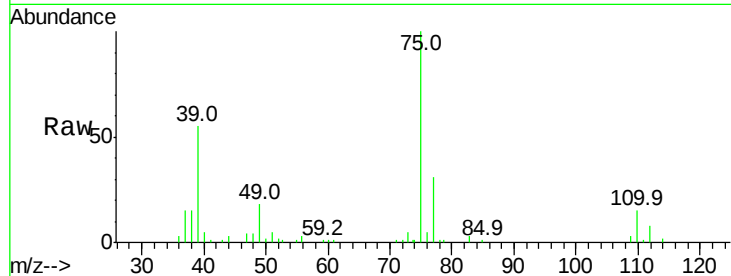
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 75 Resp: 50545

Ion Ratio Lower Upper

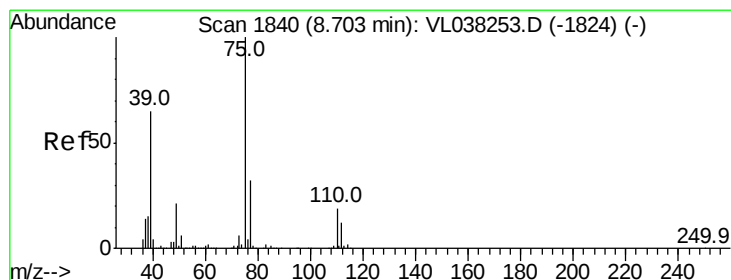
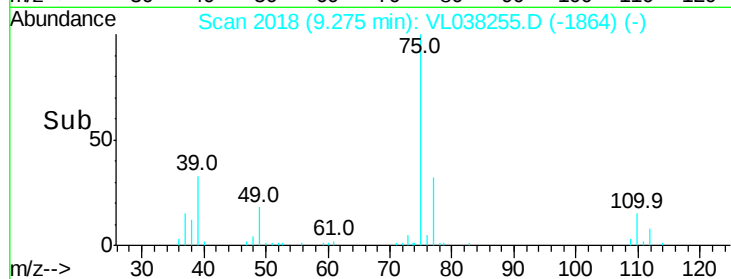
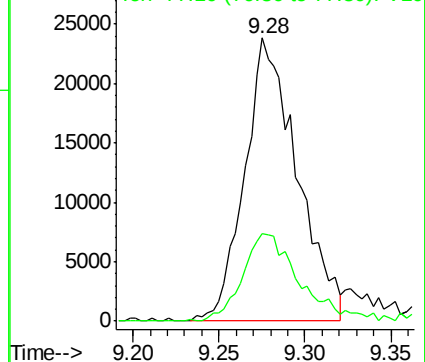
75 100

77 31.0 24.9 37.3



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.909 ppbv

RT: 8.71 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

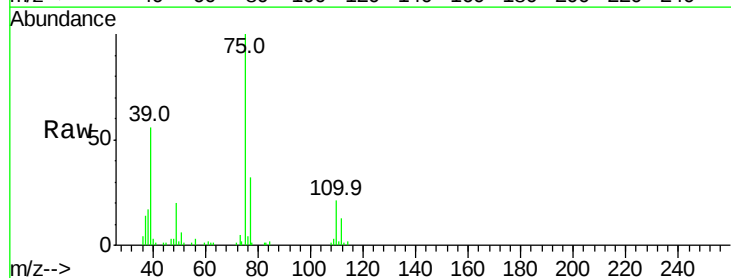
Tgt Ion: 75 Resp: 67390

Ion Ratio Lower Upper

75 100

39 55.8 52.3 78.5

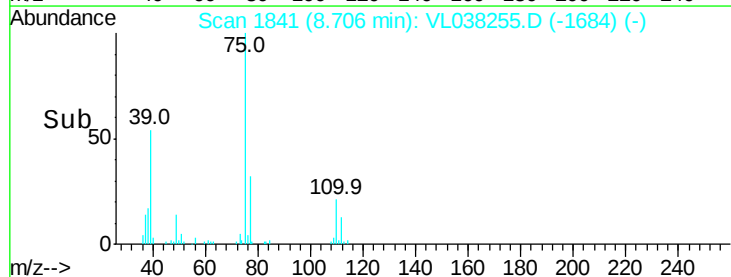
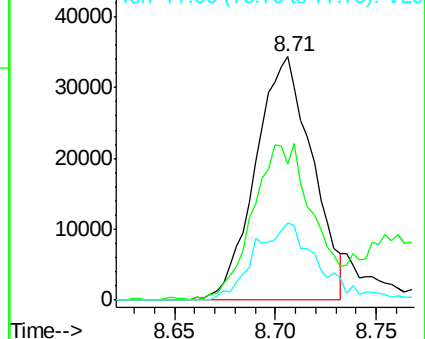
77 31.6 25.4 38.0

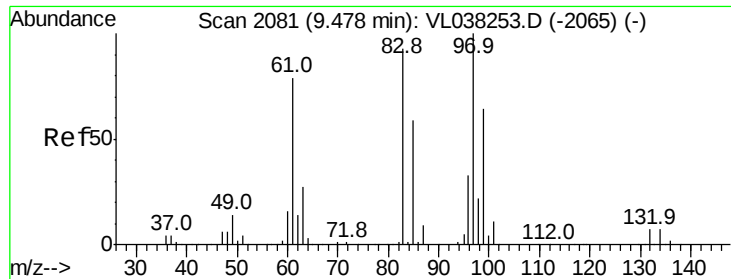


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

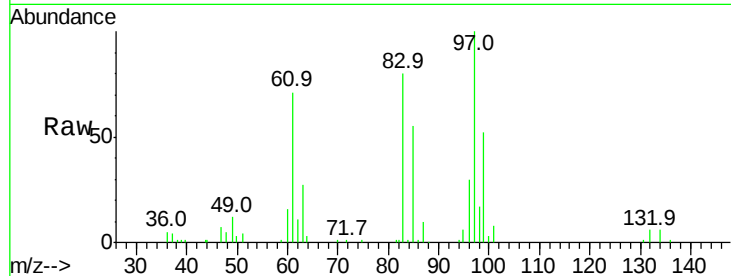
Ion 77.00 (76.70 to 77.70): VL0



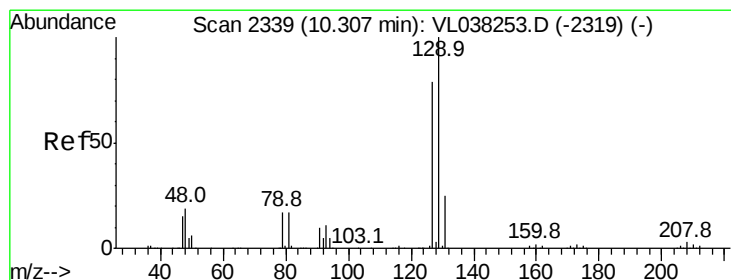
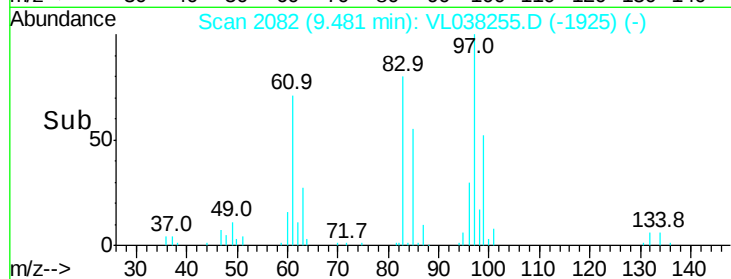
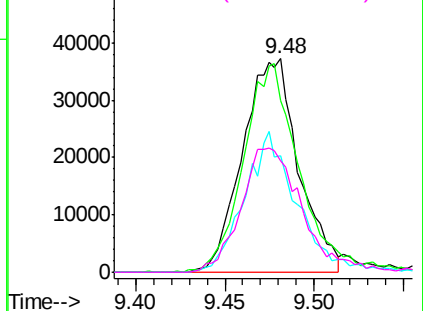


#47  
 1,1,2-Trichloroethane  
 Concen: 0.973 ppbv  
 RT: 9.48  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 81679 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 79.5  | 74.3  | 111.5 |
| 85       | 54.8  | 47.5  | 71.3  |
| 99       | 52.3  | 51.1  | 76.7  |

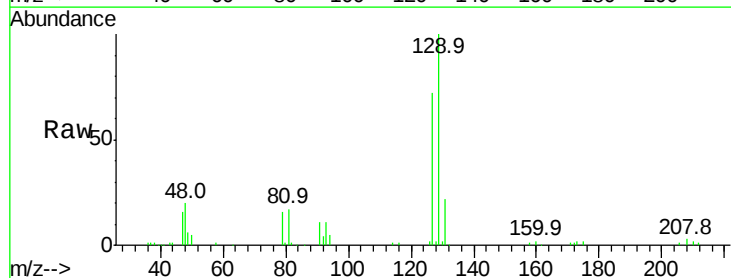


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

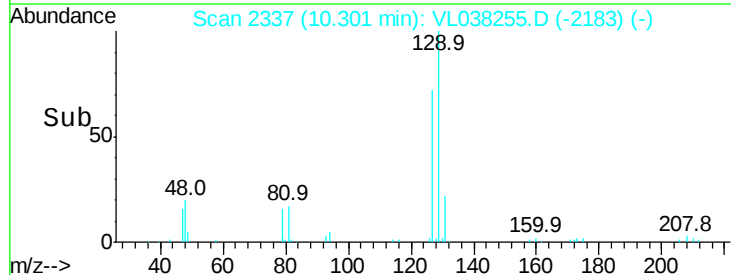
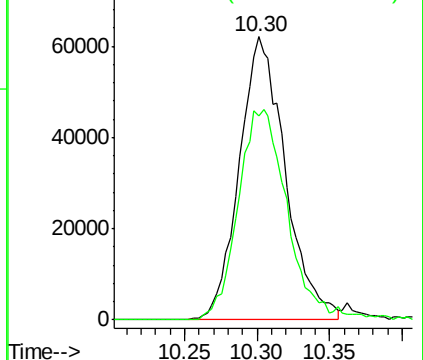


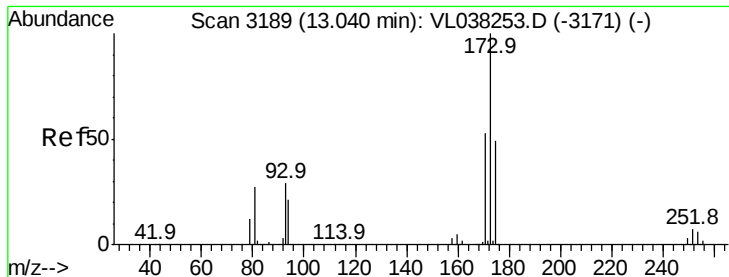
#48  
 Dibromochloromethane  
 Concen: 1.159 ppbv  
 RT: 10.30 min Scan# 2337  
 Delta R.T. -0.01 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 136861 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 80.7  | 39.1  | 117.3  |



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





#49

Bromoform

Concen: 1.157 ppbv

RT: 13.04

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 10:45

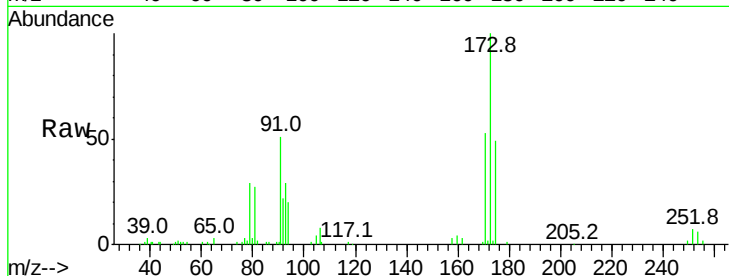
Tgt Ion: 173 Resp: 97045

Ion Ratio Lower Upper

173 100

175 52.4 39.7 59.5

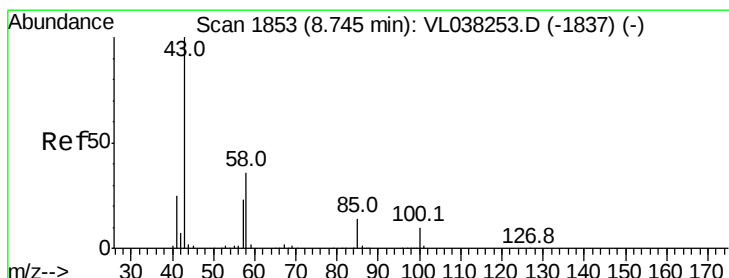
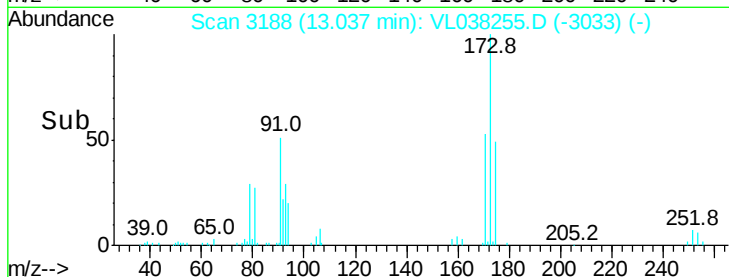
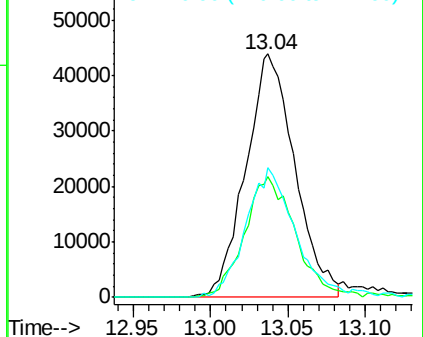
171 55.3 42.1 63.1



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.458 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. 0.01 min

Lab File: VL038255.D

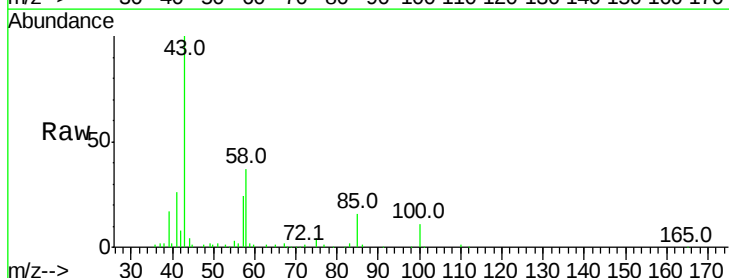
Acq: 24 Jan 2022 10:45

Tgt Ion: 43 Resp: 56436

Ion Ratio Lower Upper

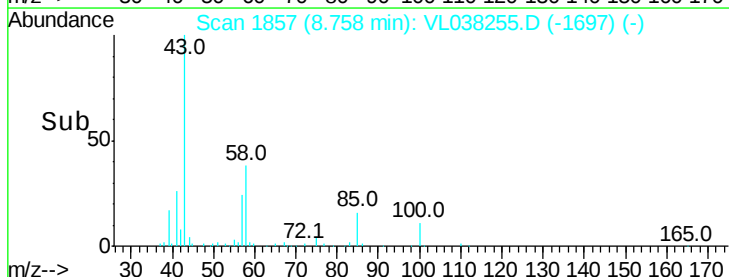
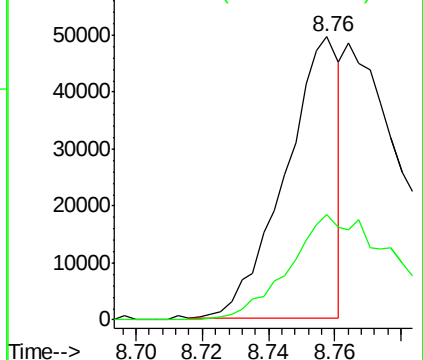
43 100

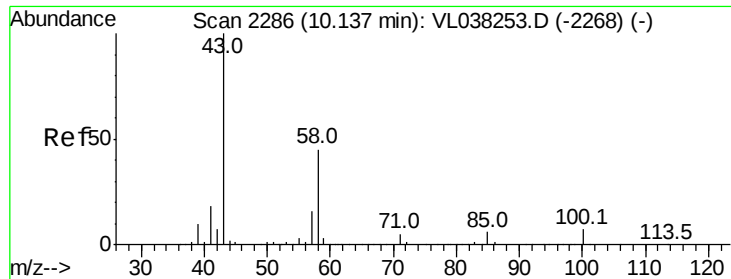
58 85.6 28.2 42.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.289 ppbv

RT: 10.15

Delta R.T. MSVOA\_1

Lab File: ClientSampleId :

Acq: 24 Jan 2022 10:45

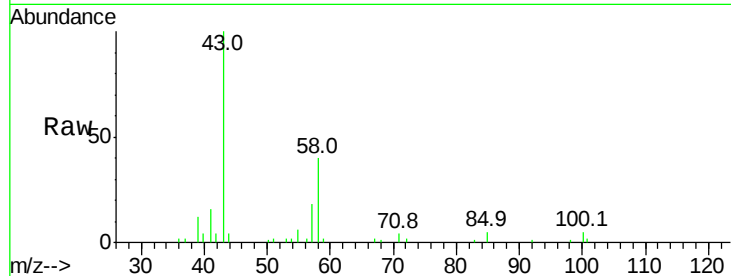
Tgt Ion: 43 Resp: 17051

Ion Ratio Lower Upper

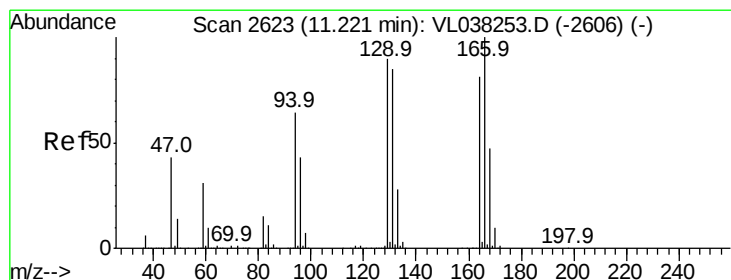
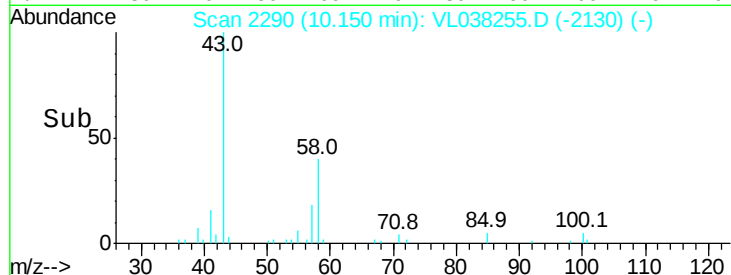
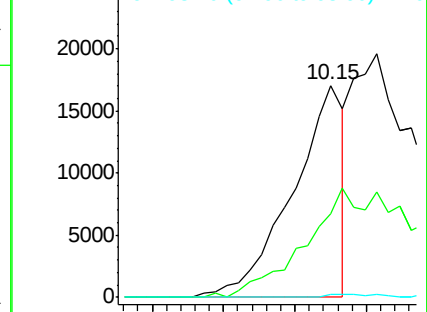
43 100

58 143.0 37.0 55.4#

98 1.6 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.901 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion:164 Resp: 69908

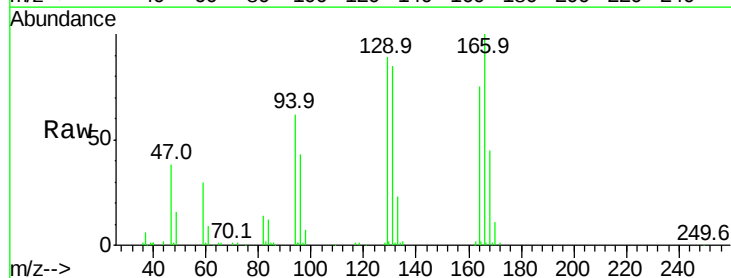
Ion Ratio Lower Upper

164 100

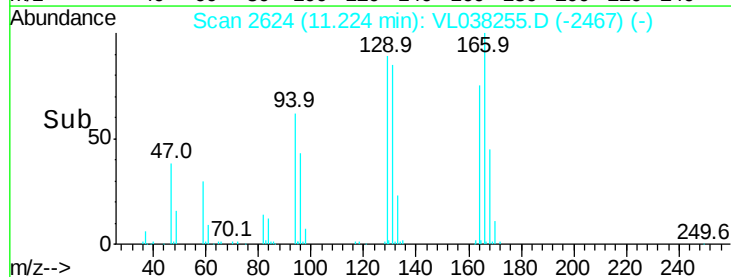
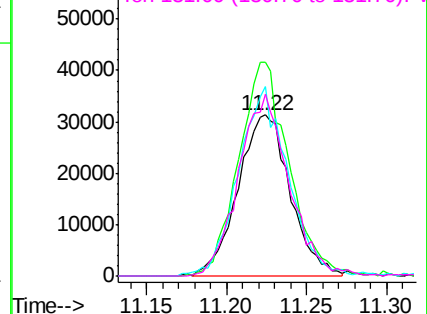
166 131.4 98.8 148.2

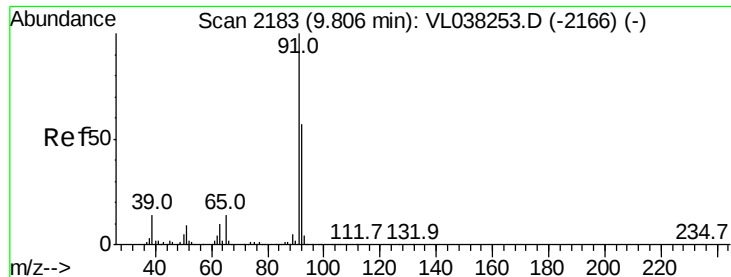
129 115.4 89.2 133.8

131 112.4 83.6 125.4



Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 165.90 (165.60 to 166.60): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.948 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

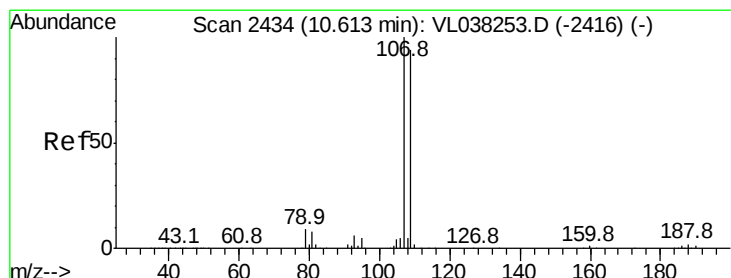
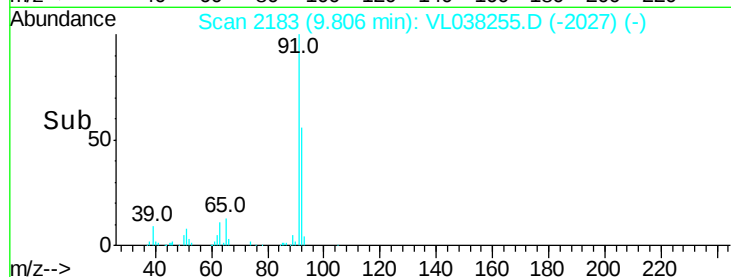
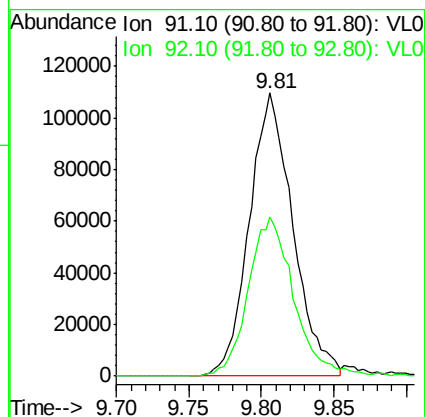
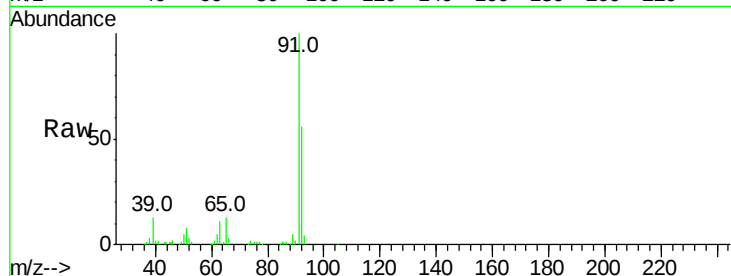
Acq: 24 Jan 2022 10:45 VSTDIC001

Tgt Ion: 91 Resp: 229894

Ion Ratio Lower Upper

91 100

92 59.1 47.4 71.0



#54

1,2-Dibromoethane

Concen: 0.971 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL038255.D

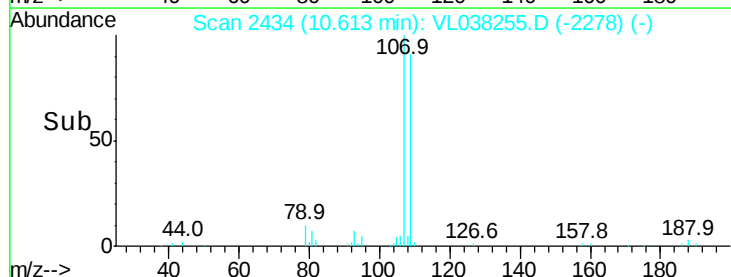
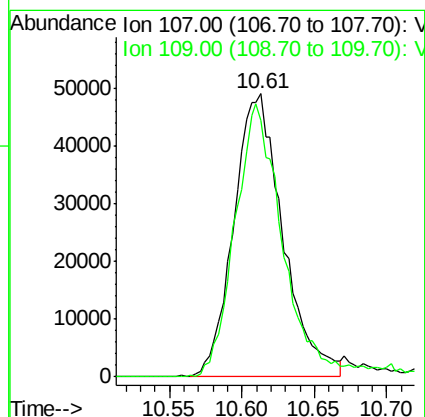
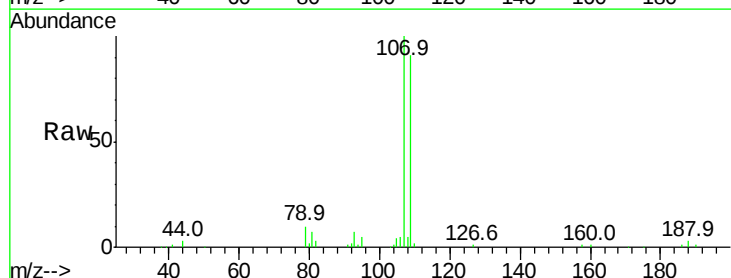
Acq: 24 Jan 2022 10:45

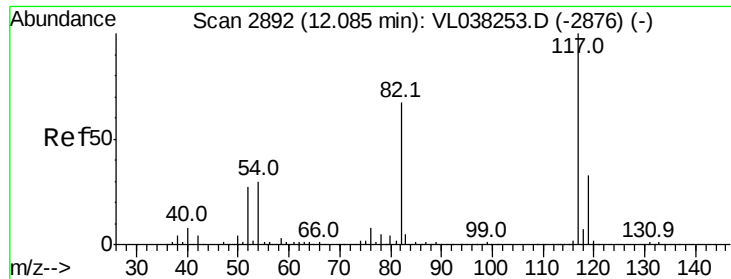
Tgt Ion: 107 Resp: 115650

Ion Ratio Lower Upper

107 100

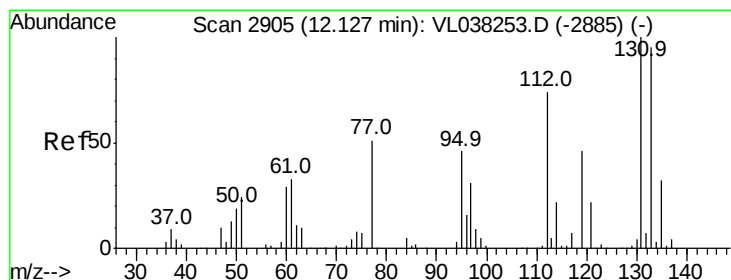
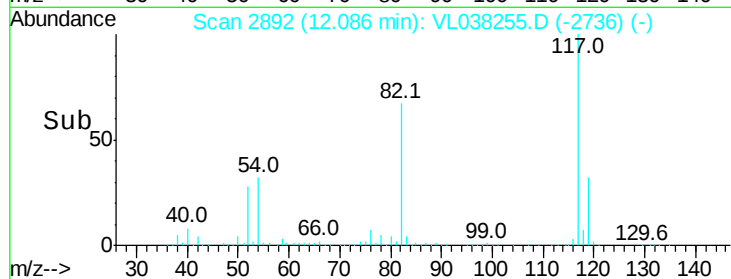
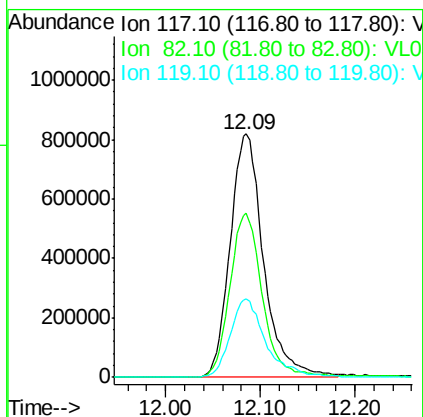
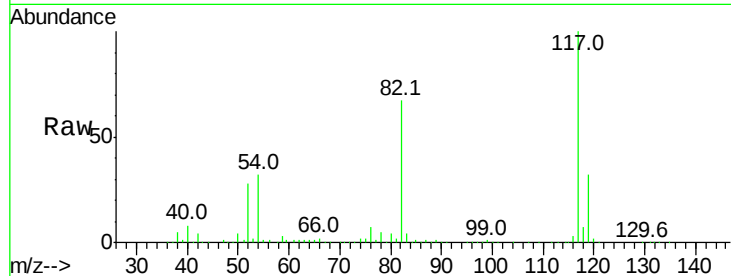
109 90.2 75.4 113.0





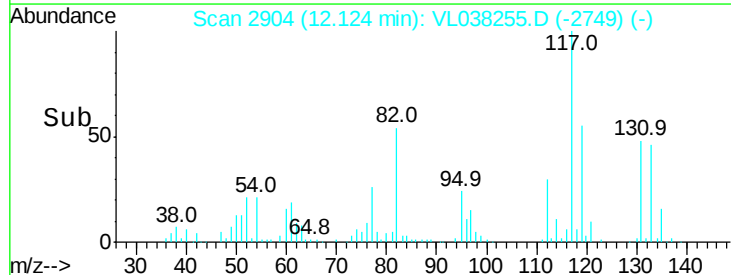
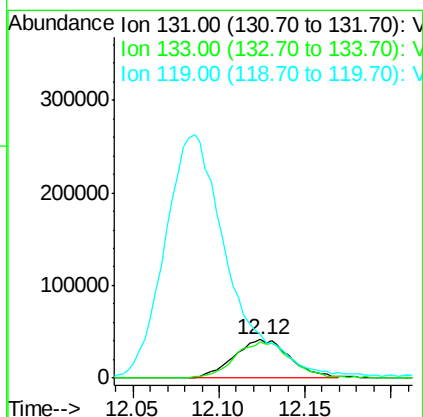
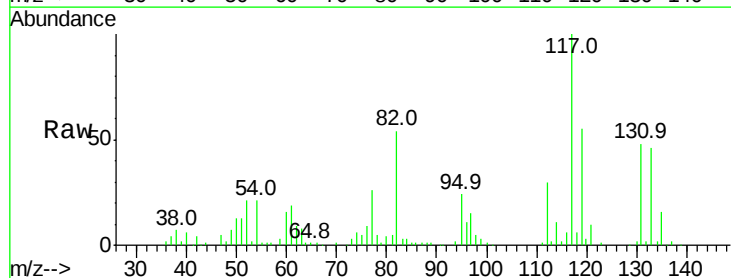
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : VSTDIC001  
Acq: 24 Jan 2022 10:45

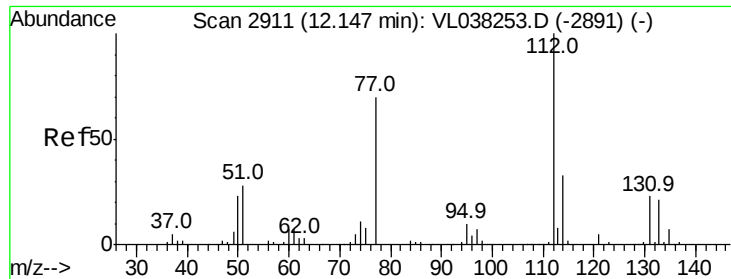
Tgt Ion:117 Resp: 2012260  
Ion Ratio Lower Upper  
117 100  
82 66.1 54.4 81.6  
119 34.7 45.9 68.9#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.113 ppbv  
RT: 12.12 min Scan# 2904  
Delta R.T. -0.00 min  
Lab File: VL038255.D  
Acq: 24 Jan 2022 10:45

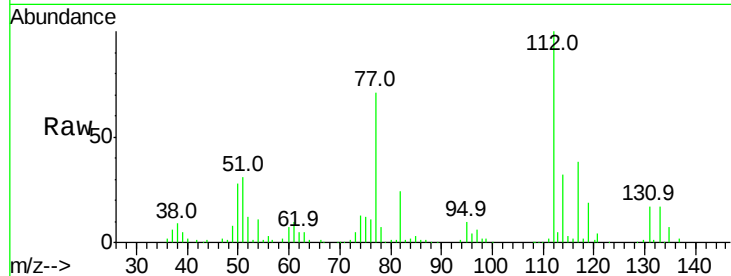
Tgt Ion:131 Resp: 93150  
Ion Ratio Lower Upper  
131 100  
133 97.3 76.0 114.0  
119 750.6 53.0 79.4#



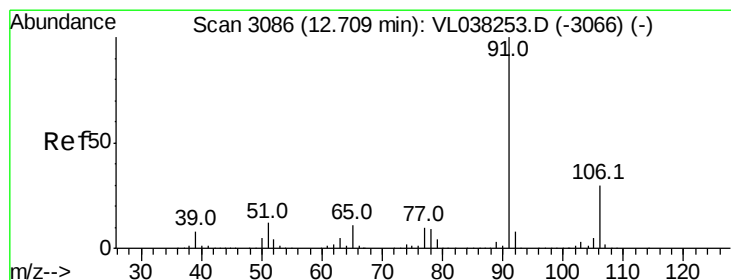
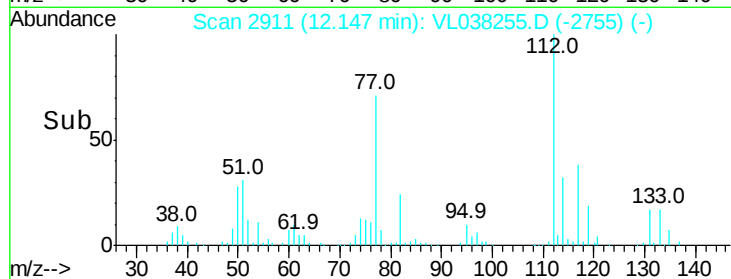
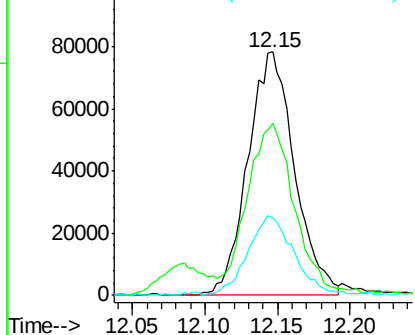


#57  
Chlorobenzene  
Concen: 1.005 ppbv  
RT: 12.15 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VSTDIC001  
Acq: 24 Jan 2022 10:45

Tgt Ion: 112 Resp: 175380  
Ion Ratio Lower Upper  
112 100  
77 68.4 55.9 83.9  
114 30.8 29.3 35.9

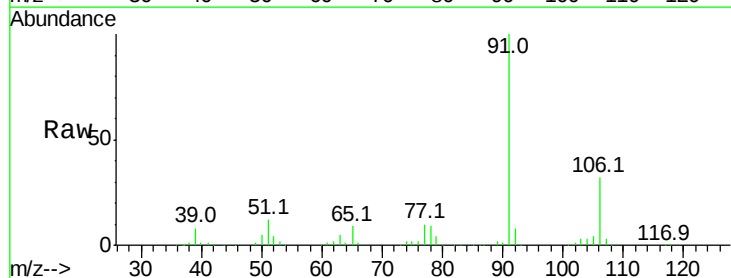


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

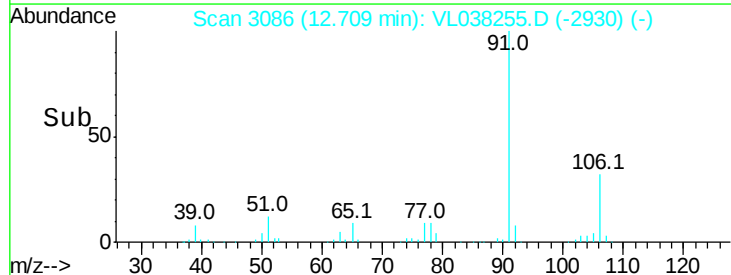
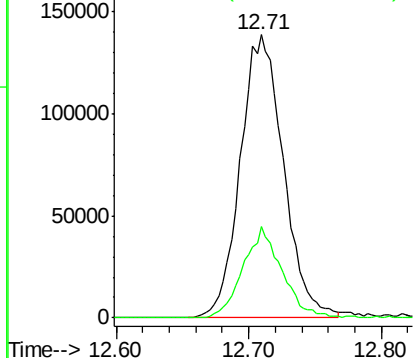


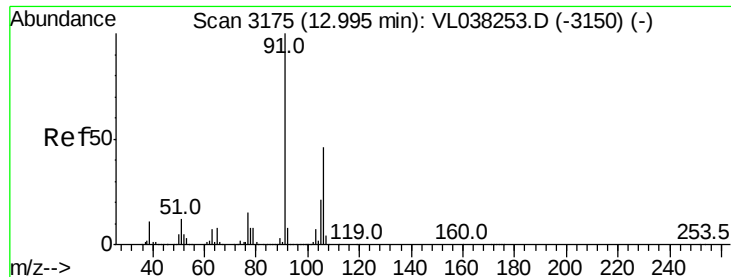
#58  
Ethyl Benzene  
Concen: 1.002 ppbv  
RT: 12.71 min Scan# 3086  
Delta R.T. 0.00 min  
Lab File: VL038255.D  
Acq: 24 Jan 2022 10:45

Tgt Ion: 91 Resp: 313026  
Ion Ratio Lower Upper  
91 100  
106 32.1 24.1 36.1



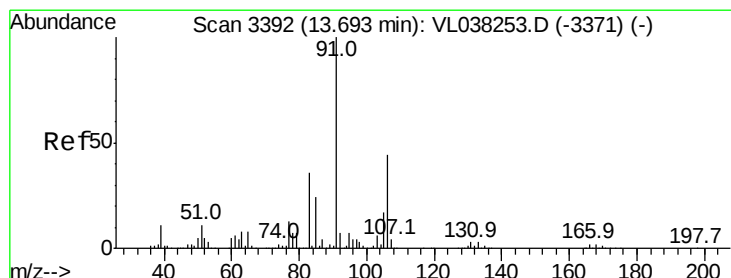
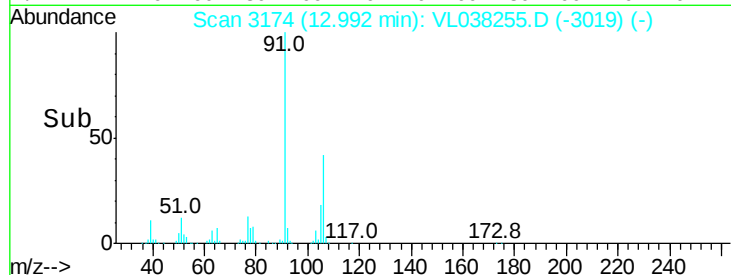
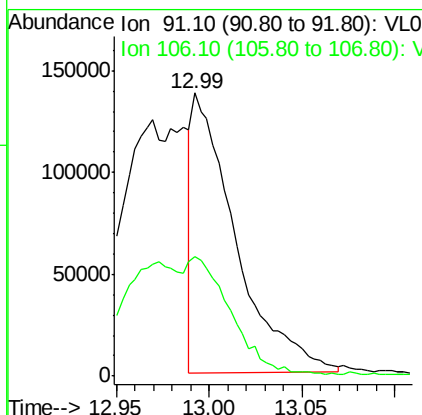
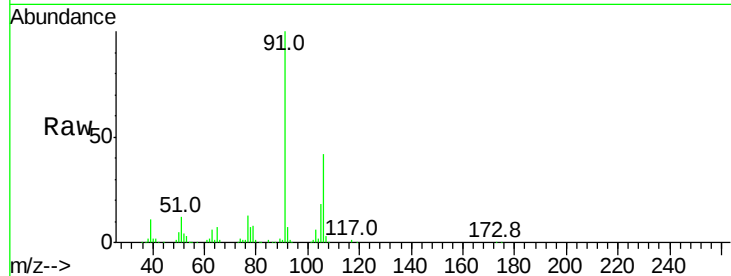
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





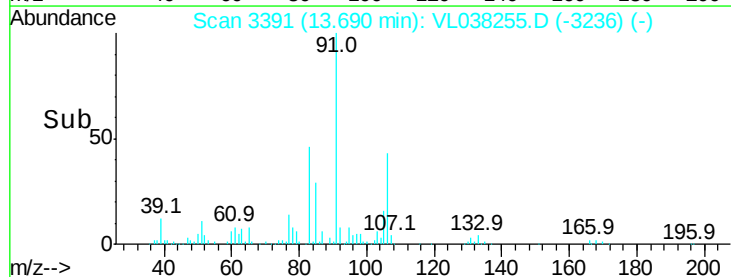
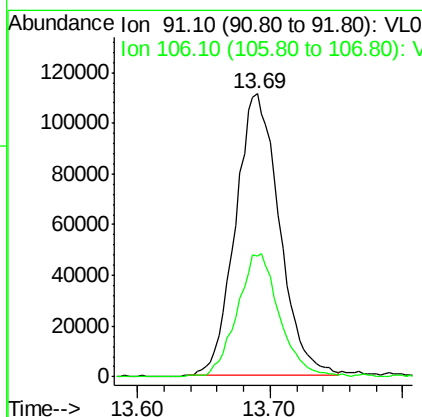
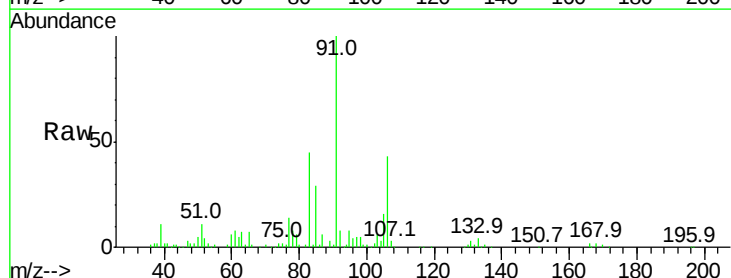
#59  
m/p-Xylene  
Concen: 0.826 ppbv  
RT: 12.99 min  
Delta R.T. MSVOA\_1  
Lab File: ClientSampleId :  
Acq: 24 Jan 2022 10:45

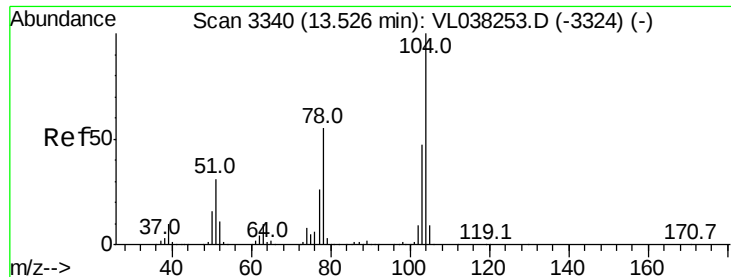
Tgt Ion: 91 Resp: 220406  
Ion Ratio Lower Upper  
91 100  
106 103.3 34.8 52.2#



#60  
o-Xylene  
Concen: 1.032 ppbv  
RT: 13.69 min Scan# 3391  
Delta R.T. -0.00 min  
Lab File: VL038255.D  
Acq: 24 Jan 2022 10:45

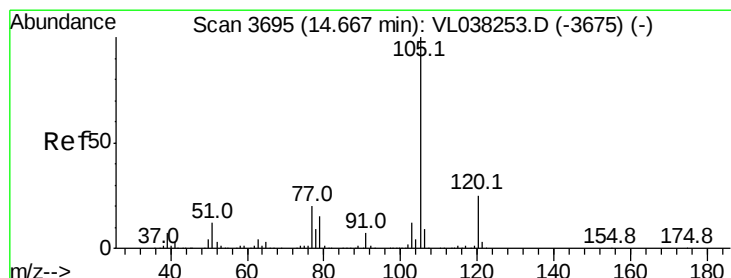
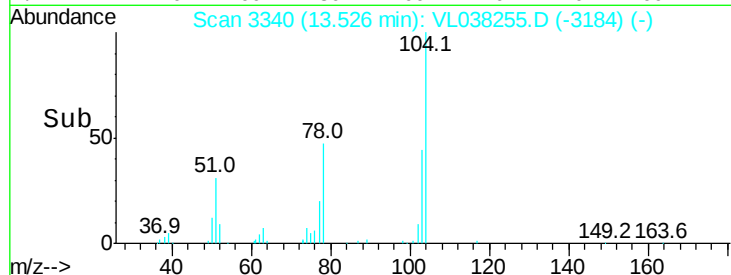
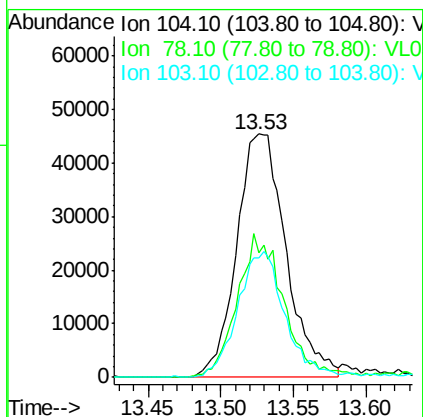
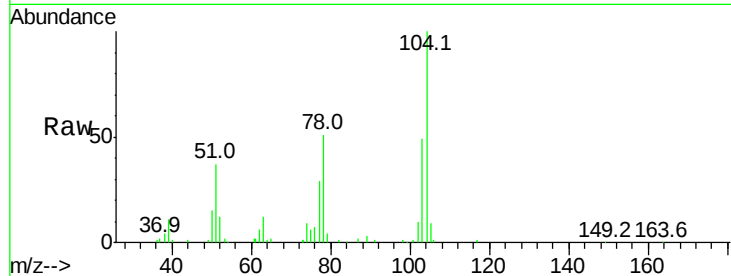
Tgt Ion: 91 Resp: 255533  
Ion Ratio Lower Upper  
91 100  
106 42.8 22.2 66.6





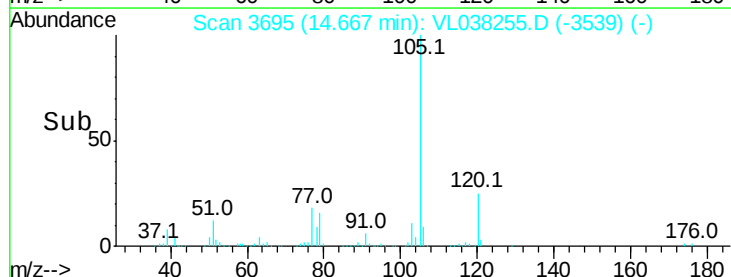
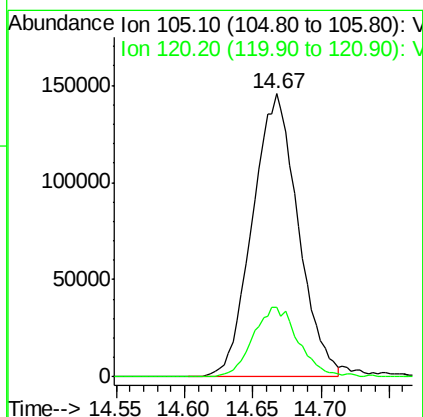
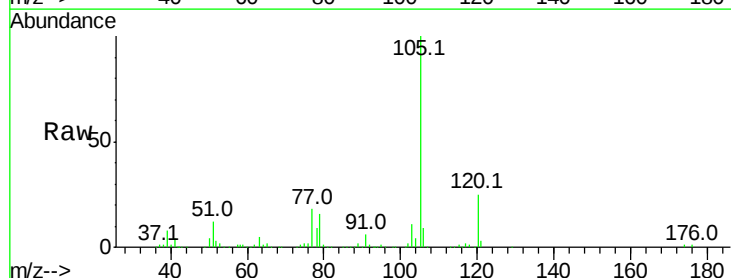
#61  
 Styrene  
 Concen: 0.859 ppbv  
 RT: 13.53  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

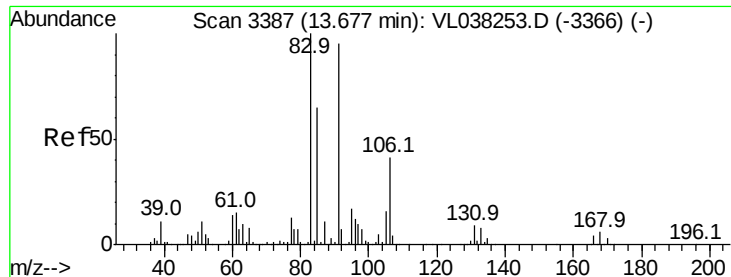
Tgt Ion:104 Resp: 107710  
 Ion Ratio Lower Upper  
 104 100  
 78 56.2 44.2 66.4  
 103 50.3 38.2 57.4



#62  
 Isopropylbenzene  
 Concen: 0.975 ppbv  
 RT: 14.67 min Scan# 3695  
 Delta R.T. 0.00 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

Tgt Ion:105 Resp: 338637  
 Ion Ratio Lower Upper  
 105 100  
 120 24.9 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.966 ppbv

RT: 13.67

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 10:45

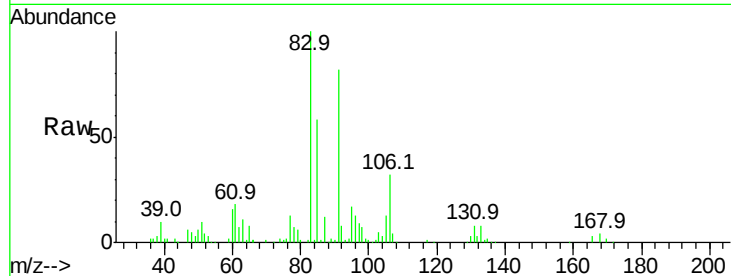
Tgt Ion: 83 Resp: 183910

Ion Ratio Lower Upper

83 100

131 8.8 4.5 13.5

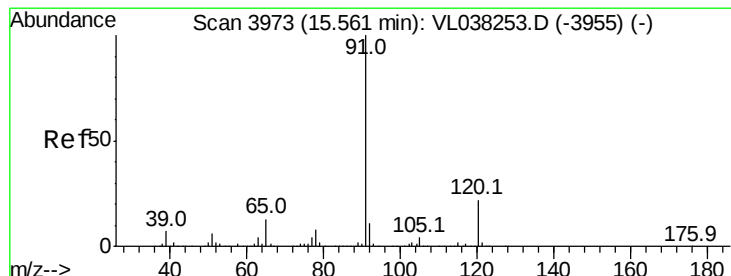
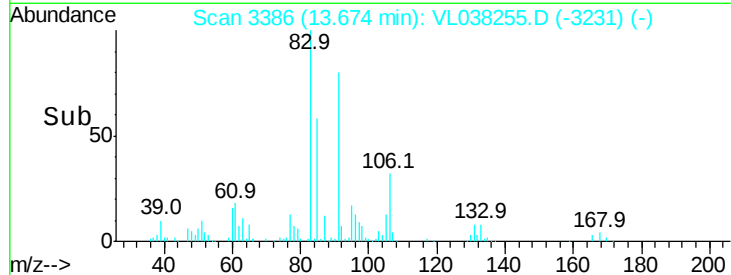
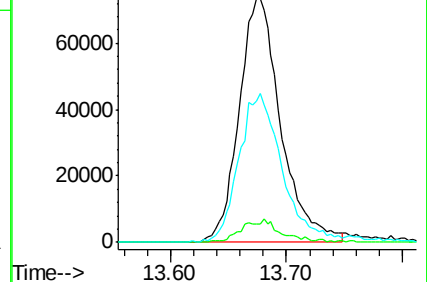
85 65.3 32.8 98.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.516 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VL038255.D

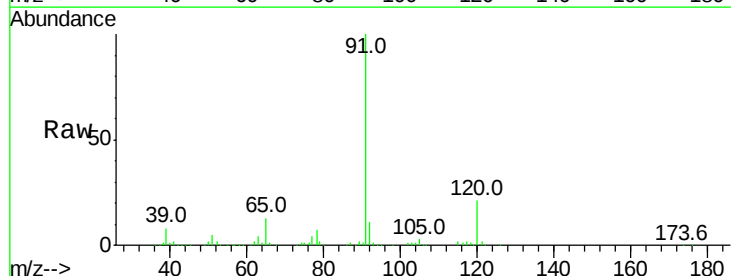
Acq: 24 Jan 2022 10:45

Tgt Ion: 120 Resp: 44574

Ion Ratio Lower Upper

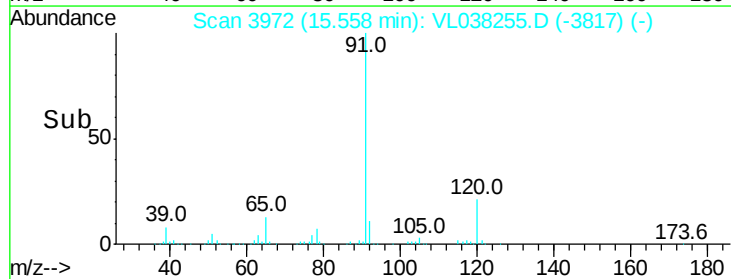
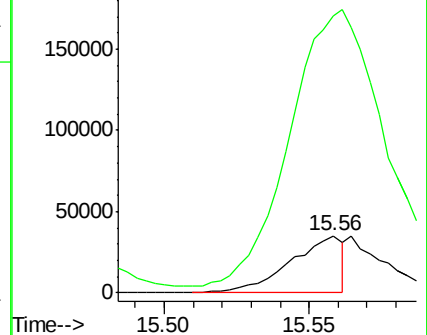
120 100

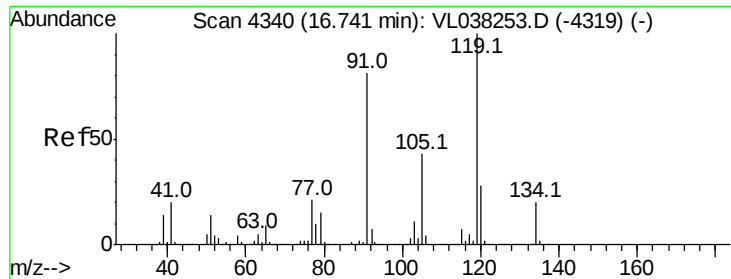
91 569.5 390.8 586.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

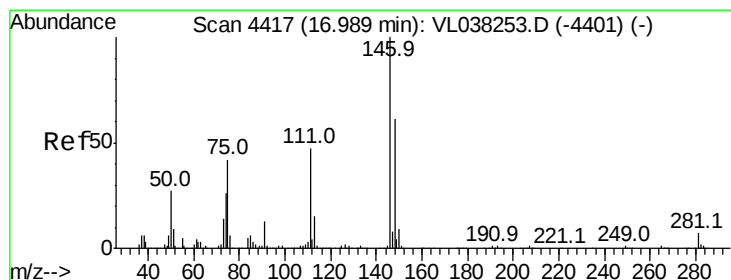
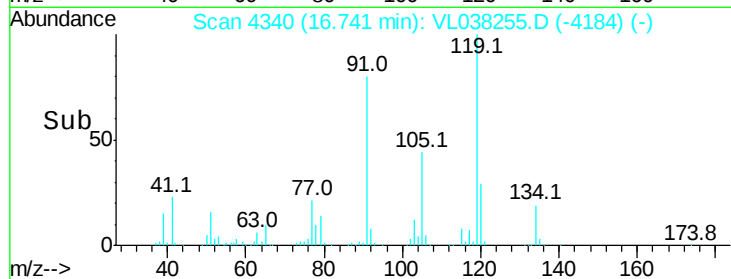
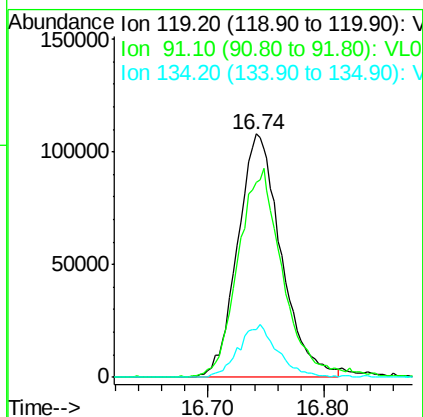
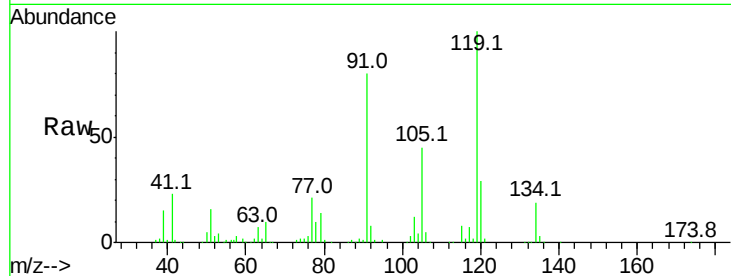
Ion 91.10 (90.80 to 91.80): VL0





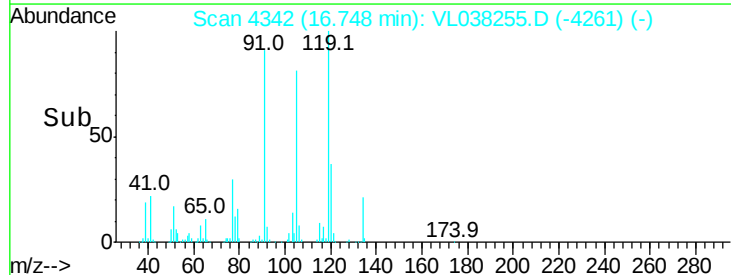
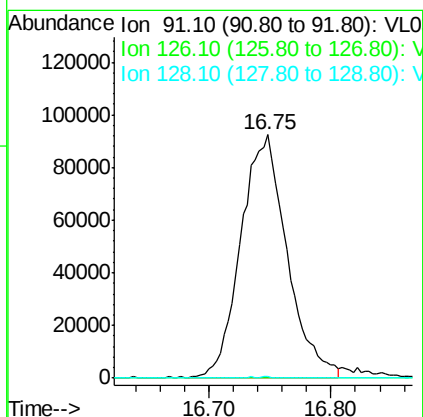
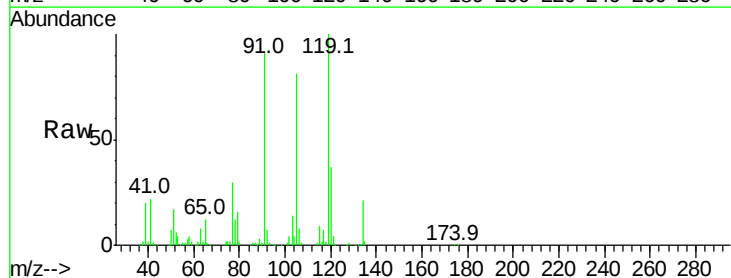
#65  
 tert-Butylbenzene  
 Concen: 0.917 ppbv  
 RT: 16.74 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

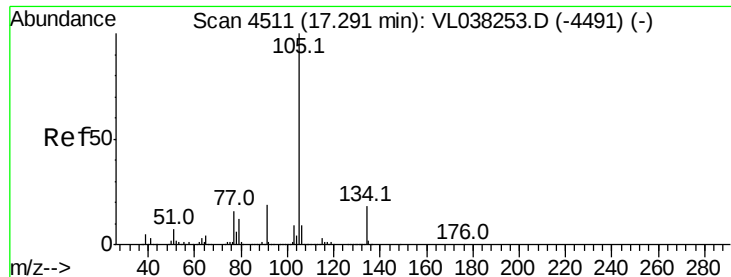
Tgt Ion: 119 Resp: 280602  
 Ion Ratio Lower Upper  
 119 100  
 91 89.4 66.6 100.0  
 134 19.9 15.8 23.6



#66  
 Benzyl Chloride  
 Concen: 21.305 ppbv  
 RT: 16.75 min Scan# 4342  
 Delta R.T. -0.24 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

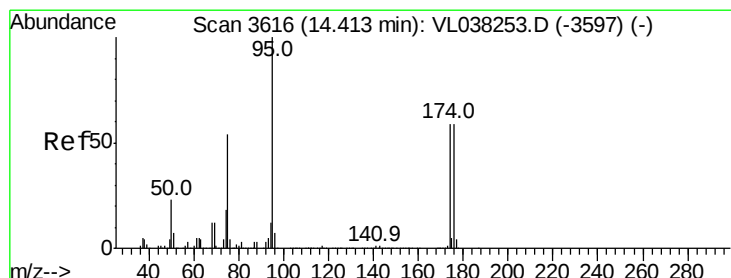
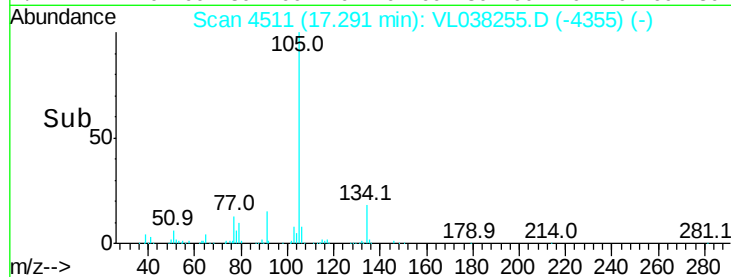
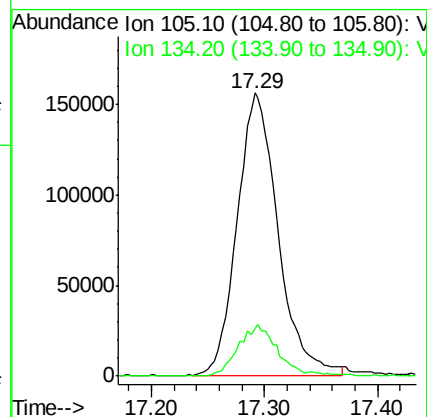
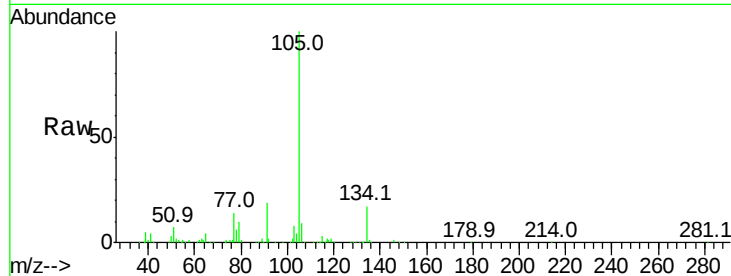
Tgt Ion: 91 Resp: 242873  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 12.6 18.8#  
 128 0.2 4.3 6.5#





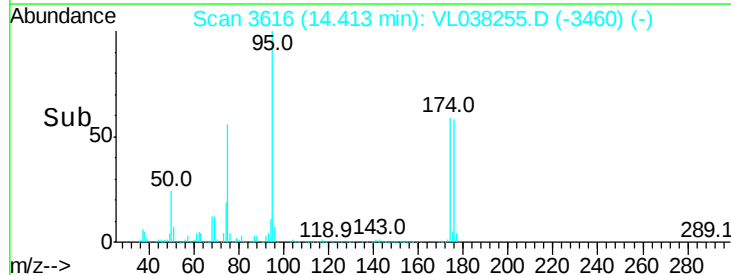
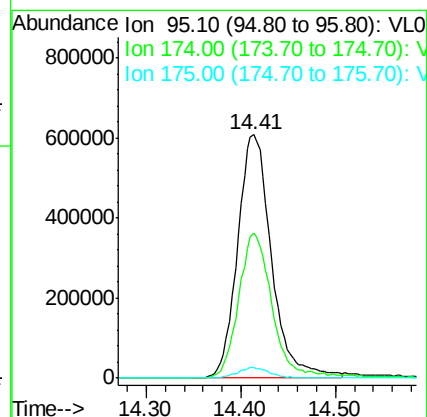
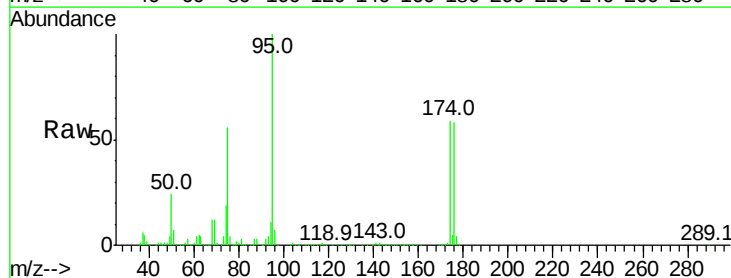
#67  
 sec-Butylbenzene  
 Concen: 0.931 ppbv  
 RT: 17.29 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

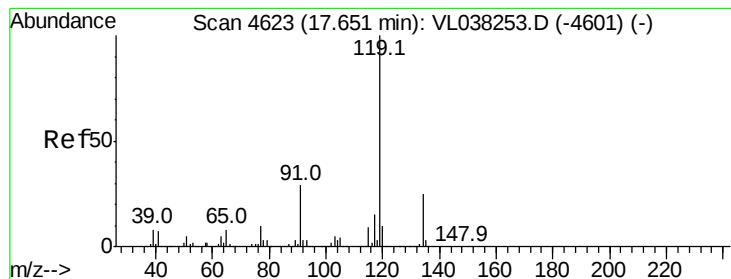
Tgt Ion: 105 Resp: 391465  
 Ion Ratio Lower Upper  
 105 100  
 134 18.0 14.3 21.5



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.764 ppbv  
 RT: 14.41 min Scan# 3616  
 Delta R.T. 0.00 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

Tgt Ion: 95 Resp: 1513997  
 Ion Ratio Lower Upper  
 95 100  
 174 60.1 48.3 72.5  
 175 4.4 3.5 5.3





#69

p-Isopropyltoluene

Concen: 0.850 ppbv

RT: 17.65

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 10:45

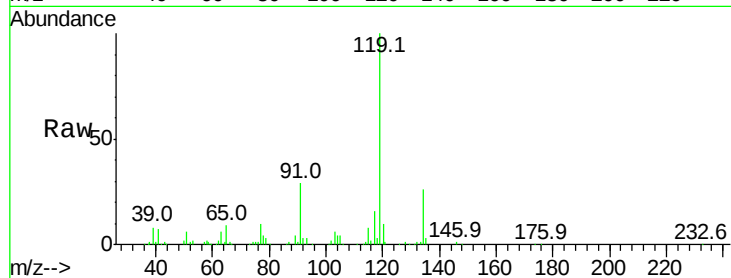
Tgt Ion: 119 Resp: 287326

Ion Ratio Lower Upper

119 100

134 26.3 20.2 30.2

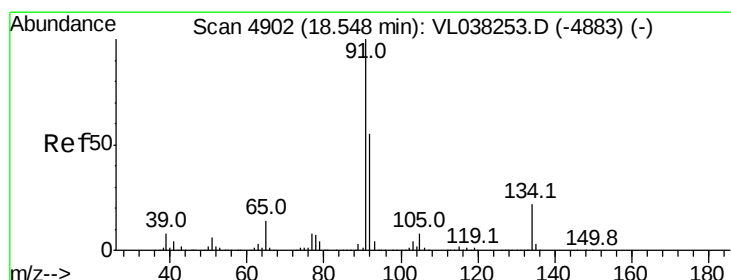
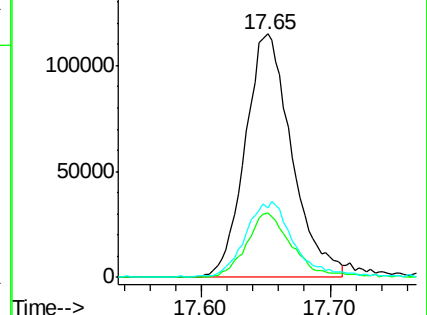
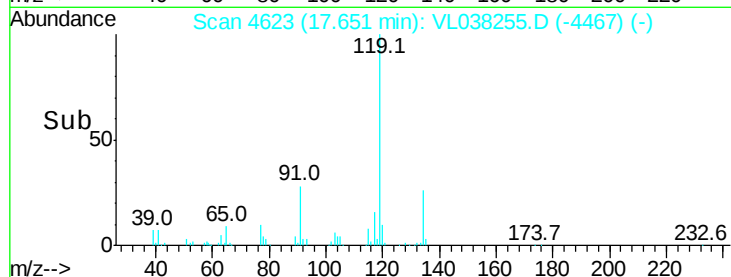
91 33.1 23.2 34.8



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.900 ppbv

RT: 18.55 min Scan# 4902

Delta R.T. 0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

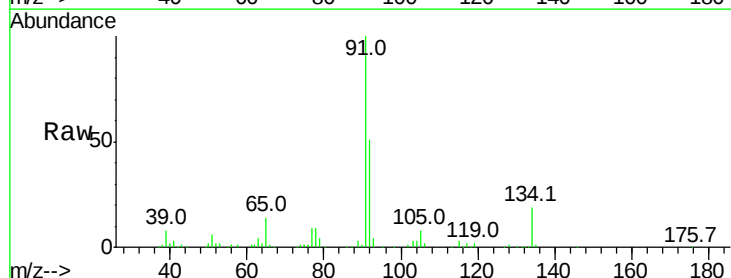
Tgt Ion: 91 Resp: 289169

Ion Ratio Lower Upper

91 100

92 52.5 43.4 65.0

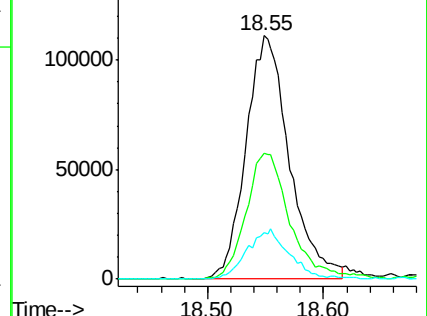
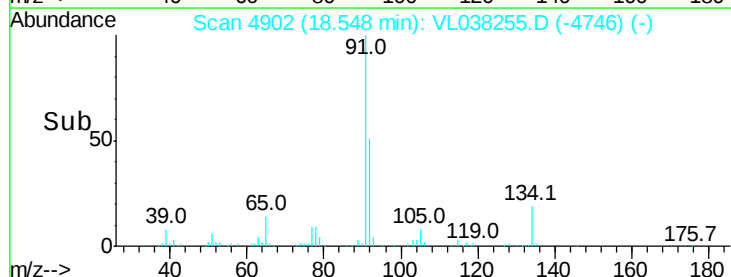
134 20.3 17.3 25.9

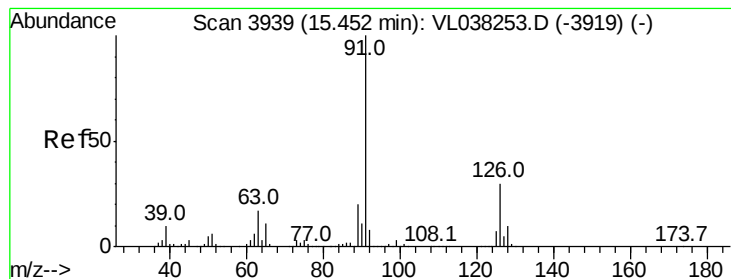


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.952 ppbv

RT: 15.46

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

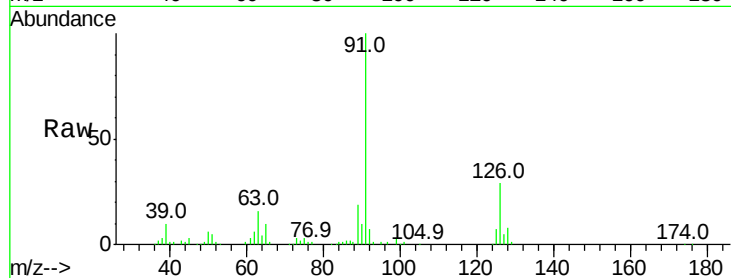
Acq: 24 Jan 2022 10:45

Tgt Ion: 91 Resp: 246249

Ion Ratio Lower Upper

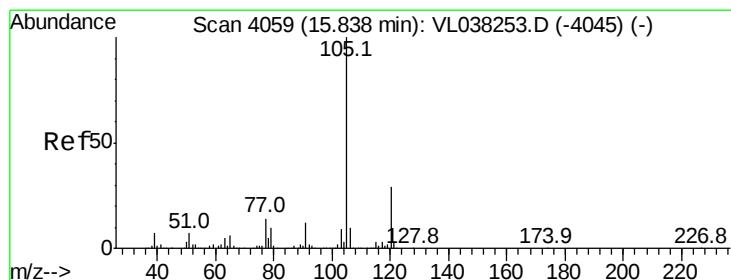
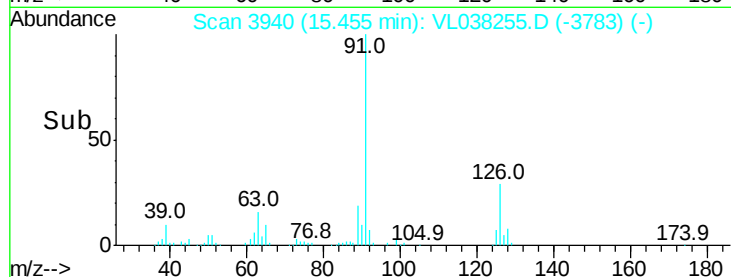
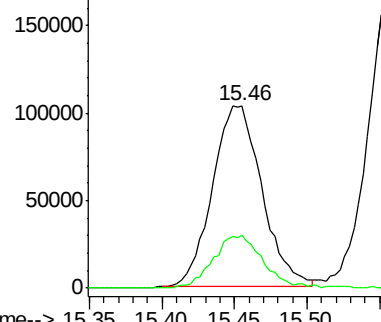
91 100

126 29.4 12.1 48.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.903 ppbv

RT: 15.83 min Scan# 4058

Delta R.T. -0.00 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion: 105 Resp: 257446

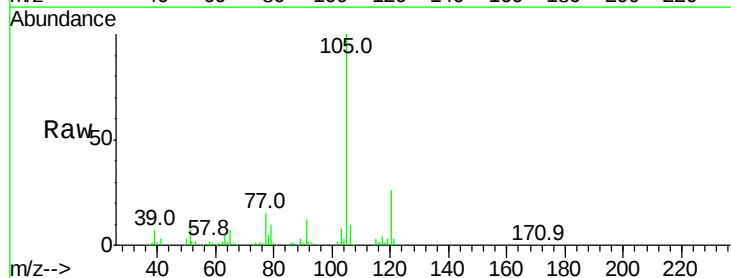
Ion Ratio Lower Upper

105 100

120 30.3 23.8 35.8

91 14.6 10.2 15.4

77 16.1 11.7 17.5

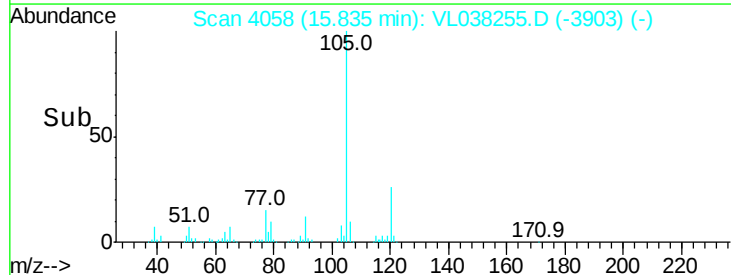
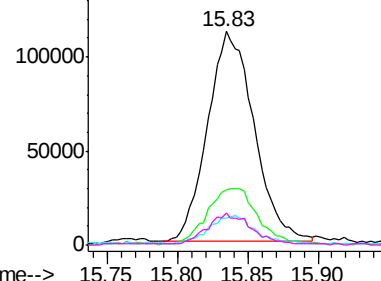


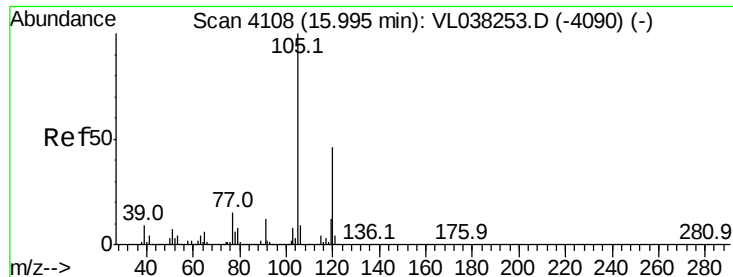
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.922 ppbv

RT: 16.00

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

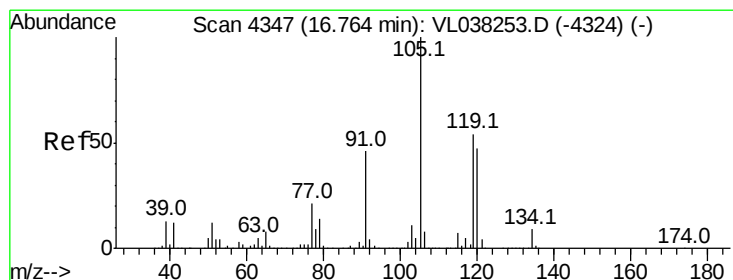
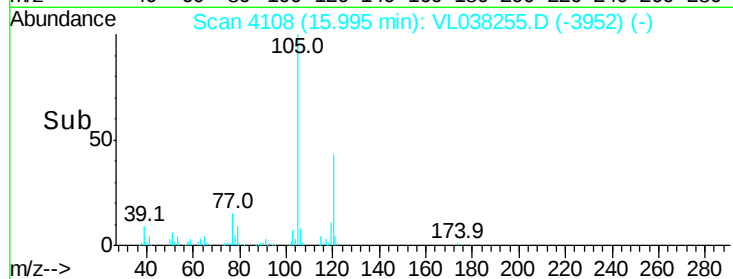
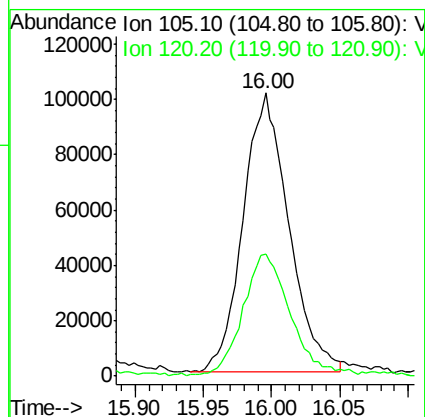
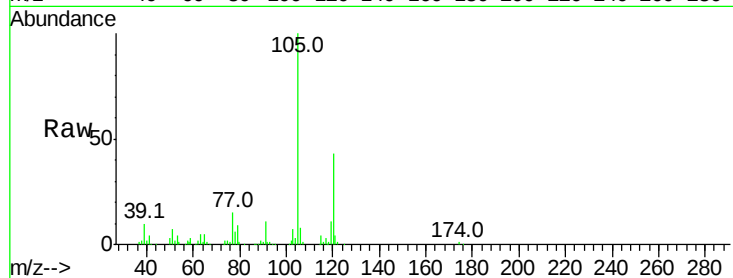
Acq: 24 Jan 2022 10:45

Tgt Ion:105 Resp: 235270

Ion Ratio Lower Upper

105 100

120 43.3 36.6 55.0



#74

1,2,4-Trimethylbenzene

Concen: 0.927 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL038255.D

Acq: 24 Jan 2022 10:45

Tgt Ion:105 Resp: 248463

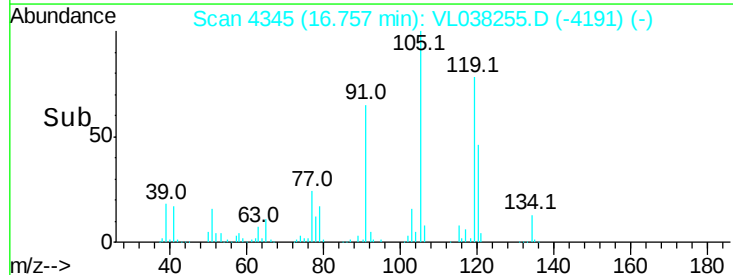
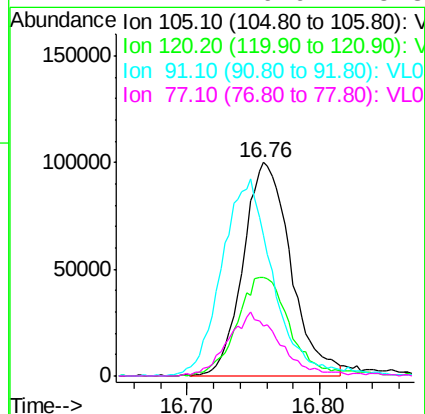
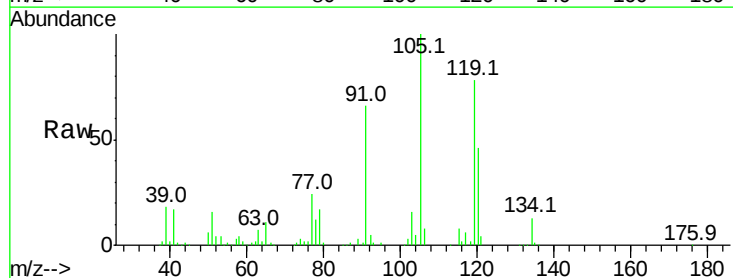
Ion Ratio Lower Upper

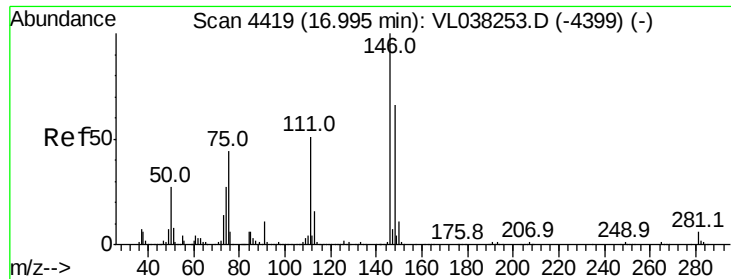
105 100

120 45.5 37.2 55.8

91 62.9 36.6 55.0#

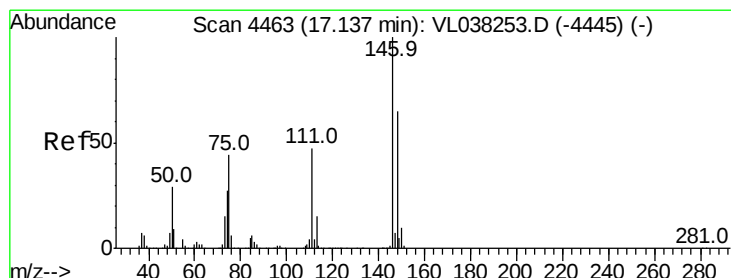
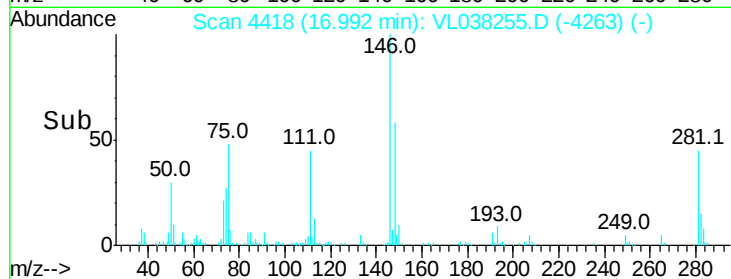
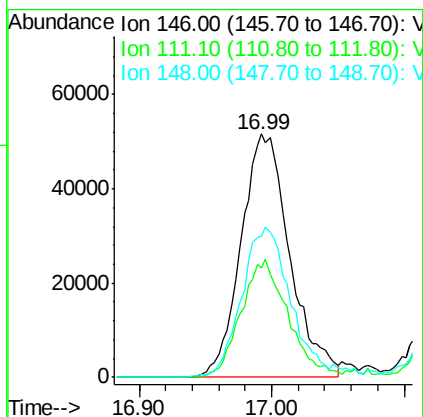
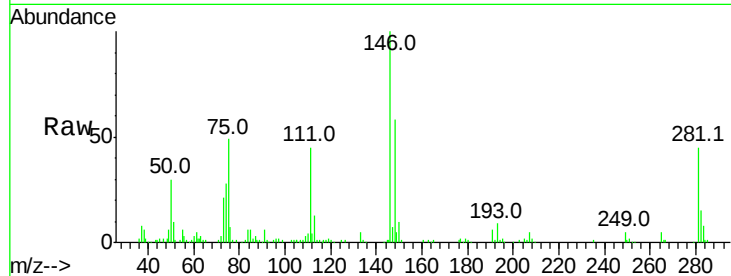
77 22.7 16.9 25.3





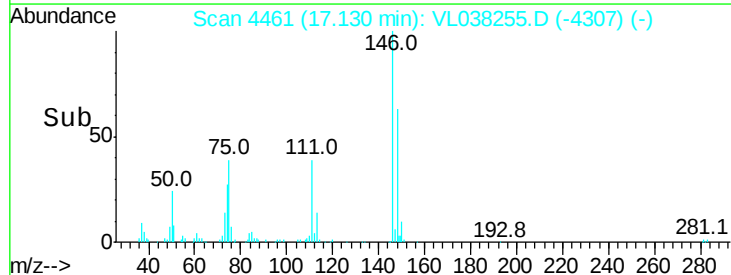
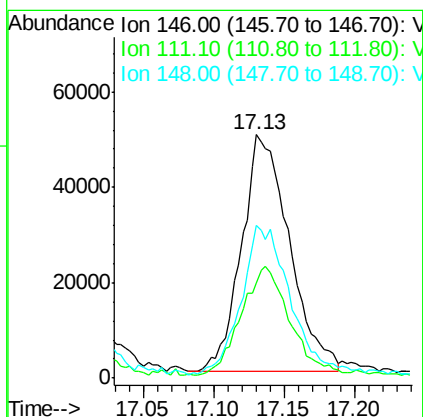
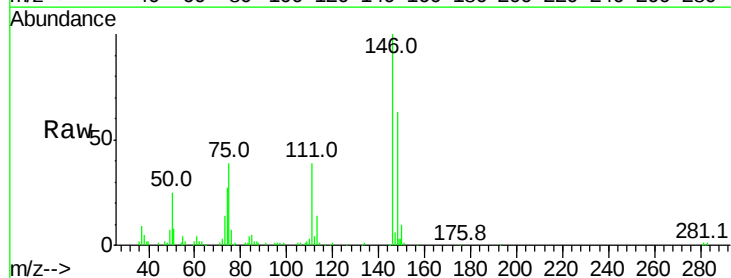
#75  
 1,3-Dichlorobenzene  
 Concen: 0.912 ppbv  
 RT: 16.99 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VSTDIC001  
 Acq: 24 Jan 2022 10:45

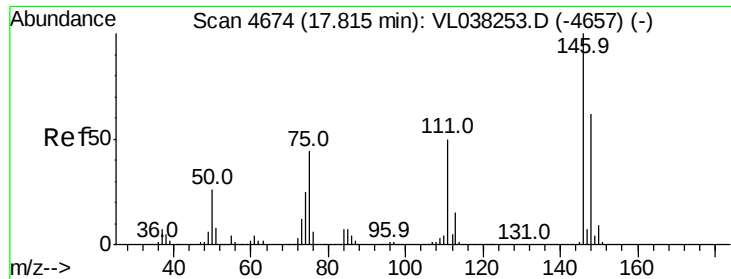
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.4  | 24.1  | 72.4  |
| 148     | 63.0  | 32.1  | 96.5  |



#76  
 1,4-Dichlorobenzene  
 Concen: 0.825 ppbv  
 RT: 17.13 min Scan# 4461  
 Delta R.T. -0.01 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

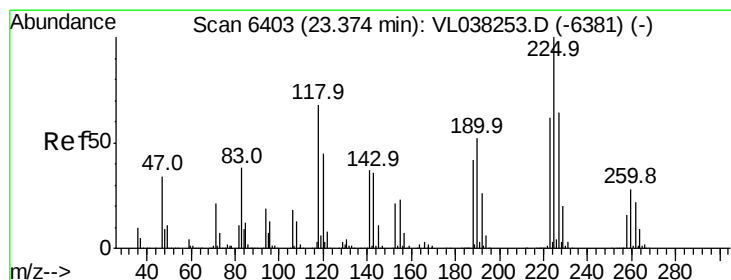
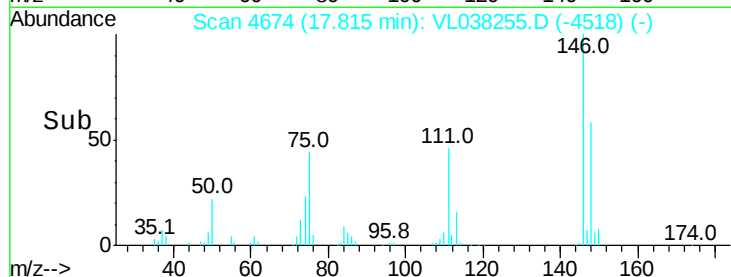
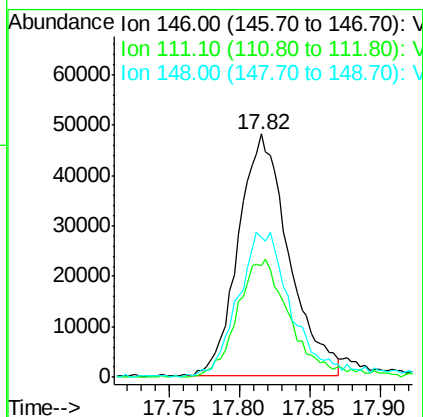
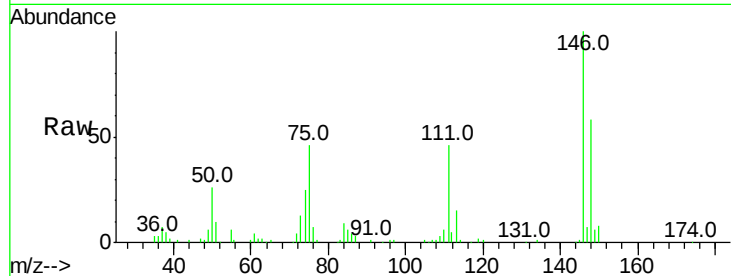
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 52.7  | 23.2  | 69.6  |
| 148     | 69.1  | 32.4  | 97.0  |





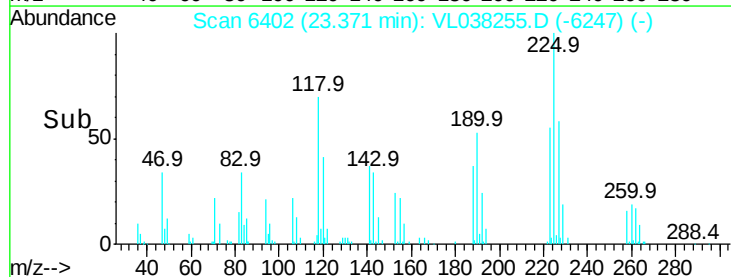
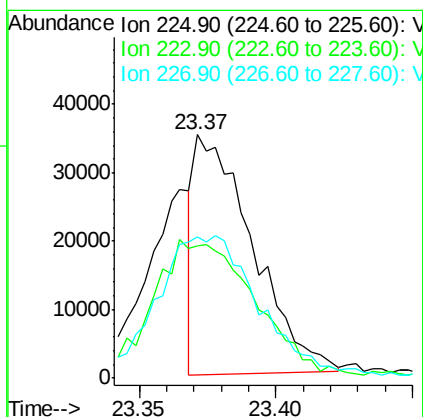
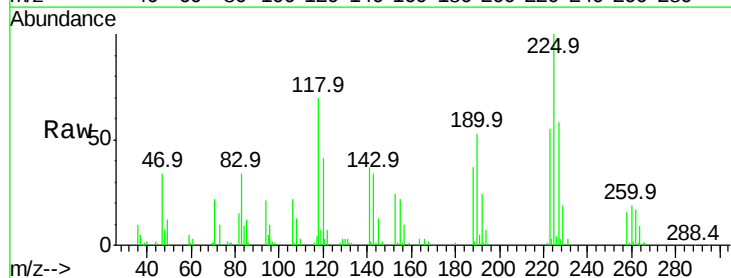
#77  
 1,2-Dichlorobenzene  
 Concen: 0.862 ppbv  
 RT: 17.82  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VSTDIC001  
 Acq: 24 Jan 2022 10:45

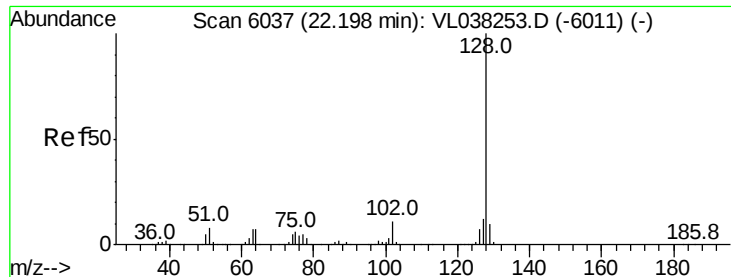
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 52.8  | 25.2  | 75.6  |
| 148     | 67.3  | 32.6  | 97.8  |



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.605 ppbv  
 RT: 23.37 min Scan# 6402  
 Delta R.T. -0.00 min  
 Lab File: VL038255.D  
 Acq: 24 Jan 2022 10:45

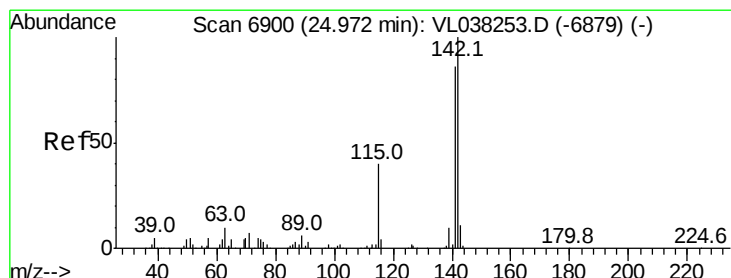
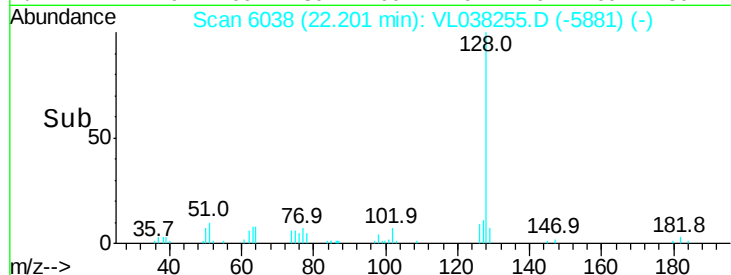
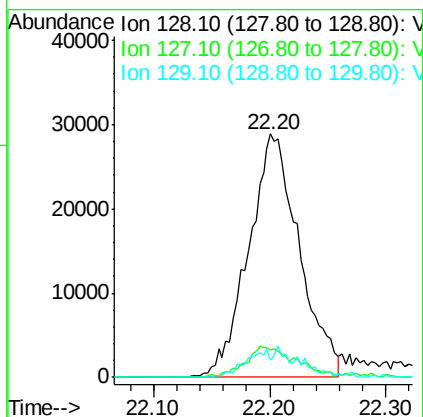
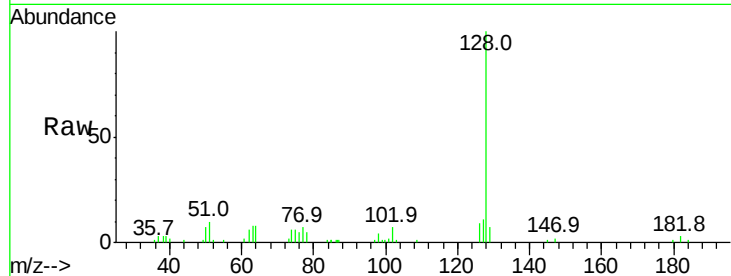
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 51.7  | 77.5# |
| 227     | 108.1 | 51.4  | 77.0# |





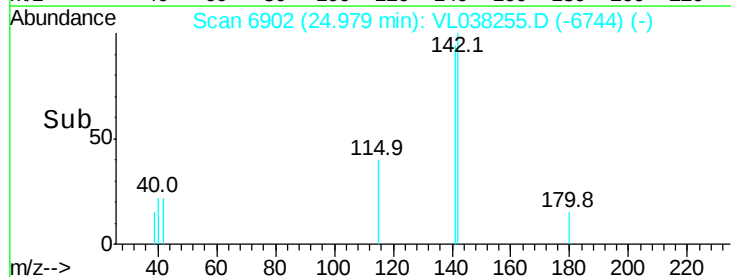
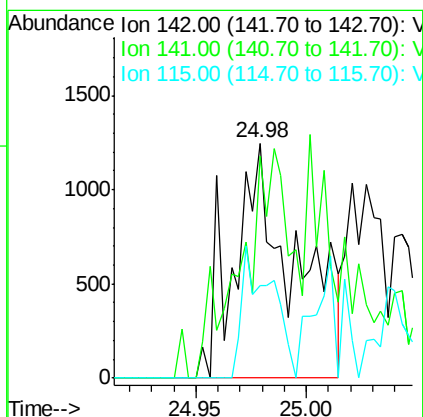
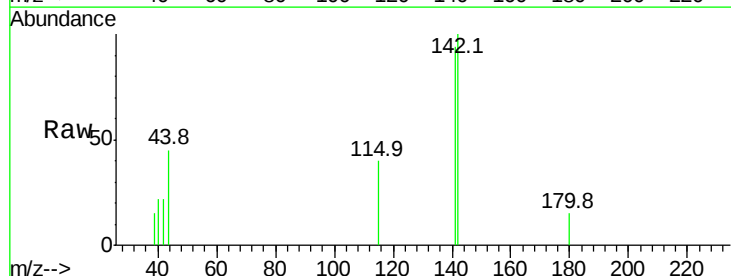
#79  
Naphthalene  
Concen: 0.633 ppbv  
RT: 22.20 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
VSTDIC001  
Acq: 24 Jan 2022 10:45

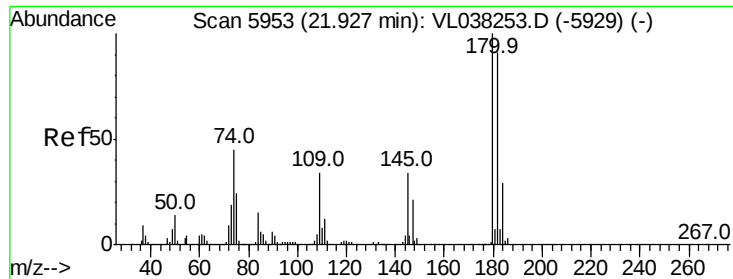
Tgt Ion:128 Resp: 87600  
Ion Ratio Lower Upper  
128 100  
127 11.1 9.7 14.5  
129 6.8 8.1 12.1#



#80  
Naphthalene, 2-methyl-  
Concen: 0.088 ppbv  
RT: 24.98 min Scan# 6902  
Delta R.T. 0.01 min  
Lab File: VL038255.D  
Acq: 24 Jan 2022 10:45

Tgt Ion:142 Resp: 2405  
Ion Ratio Lower Upper  
142 100  
141 0.0 70.2 105.4#  
115 50.0 31.8 47.6#





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.328 ppbv  
 RT: 21.92  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 24 Jan 2022 10:45

Tgt Ion:180 Resp: 25924  
 Ion Ratio Lower Upper  
 180 100  
 182 216.0 77.7 116.5#  
 184 65.5 24.4 36.6#

