

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL070218\  
 Data File : VL032178.D  
 Acq On : 2 Jul 2018 12:26  
 Operator : SY/AP  
 Sample : VL0702ABS01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

Quant Time: Jul 03 05:01:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 29 22:27:58 2018  
 QLast Update : Fri Jun 29 22:27:58 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.85  | 49   | 1426552  | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.39  | 114  | 3841096  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.35 | 117  | 3664626  | 10.00 | ppbv  | -0.01    |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.68  | 95    | 2704645  | 9.66     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.60% |

## Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 3.13 | 85  | 1312824 | 6.989  | ppbv | 97     |
| 3) Chlorodifluoromethane       | 3.07 | 51  | 1770546 | 10.158 | ppbv | 94     |
| 4) Chloromethane               | 3.23 | 50  | 941593  | 10.119 | ppbv | 99     |
| 5) Vinyl Chloride              | 3.35 | 62  | 915882  | 9.745  | ppbv | 99     |
| 6) Bromomethane                | 3.58 | 94  | 550476  | 10.283 | ppbv | 95     |
| 7) Chloroethane                | 3.67 | 64  | 339173  | 10.205 | ppbv | 91     |
| 8) Dichlorotetrafluoroethane   | 3.28 | 85  | 2018518 | 9.629  | ppbv | 91     |
| 9) Propene                     | 3.09 | 41  | 764753  | 9.414  | ppbv | 99     |
| 10) Heptane                    | 8.34 | 43  | 2156508 | 9.105  | ppbv | 98     |
| 11) Trichlorofluoromethane     | 4.07 | 101 | 2154124 | 10.600 | ppbv | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.63 | 101 | 1157611 | 8.553  | ppbv | 91     |
| 13) Ethanol                    | 3.72 | 45  | 178692  | 7.256  | ppbv | 98     |
| 14) Bromoethene                | 3.86 | 108 | 665143  | 10.329 | ppbv | 99     |
| 15) Acetone                    | 3.97 | 43  | 1729064 | 10.366 | ppbv | 99     |
| 16) 1,3-Butadiene              | 3.42 | 39  | 856867  | 10.765 | ppbv | 90     |
| 17) tert-Butyl alcohol         | 4.44 | 59  | 779396  | 7.338  | ppbv | 99     |
| 18) 1,1-Dichloroethene         | 4.42 | 96  | 550764  | 8.507  | ppbv | 97     |
| 19) Isopropyl Alcohol          | 4.10 | 45  | 1256162 | 9.064  | ppbv | # 41   |
| 20) Methylene Chloride         | 4.48 | 84  | 535552  | 8.786  | ppbv | 94     |
| 21) Allyl Chloride             | 4.55 | 41  | 942398  | 8.273  | ppbv | 96     |
| 22) trans-1,2-Dichloroethene   | 5.04 | 96  | 615237  | 9.090  | ppbv | 95     |
| 23) Vinyl Acetate              | 5.23 | 43  | 2591189 | 8.566  | ppbv | 98     |
| 24) 1,1-Dichloroethane         | 5.17 | 63  | 1778940 | 9.180  | ppbv | 99     |
| 25) Ethyl Acetate              | 5.85 | 43  | 3136789 | 9.089  | ppbv | 100    |
| 26) Hexane                     | 5.86 | 57  | 1495663 | 9.411  | ppbv | 99     |
| 27) Carbon Disulfide           | 4.70 | 76  | 1384147 | 8.761  | ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.20 | 73  | 2433774 | 8.665  | ppbv | 98     |
| 29) Chloroform                 | 5.94 | 83  | 2232969 | 9.652  | ppbv | 100    |
| 30) Cyclohexane                | 7.34 | 84  | 1460931 | 9.753  | ppbv | 99     |
| 31) cis-1,2-Dichloroethene     | 5.73 | 61  | 1507794 | 9.493  | ppbv | 93     |
| 32) 1,1,1-Trichloroethane      | 6.71 | 97  | 2532805 | 10.444 | ppbv | 99     |
| 34) 2-Butanone                 | 5.41 | 43  | 2089449 | 8.570  | ppbv | 99     |
| 35) Carbon Tetrachloride       | 7.23 | 117 | 2468378 | 9.388  | ppbv | 95     |
| 36) Benzene                    | 7.10 | 78  | 3539015 | 9.519  | ppbv | 98     |
| 37) 1,2-Dichloroethane         | 6.50 | 62  | 1759005 | 9.497  | ppbv | 97     |
| 38) Trichloroethene            | 8.06 | 130 | 1168678 | 8.047  | ppbv | 93     |
| 39) 1,2-Dichloropropane        | 7.84 | 63  | 1360933 | 9.282  | ppbv | 97     |
| 40) 1,4-Dioxane                | 8.05 | 88  | 449686  | 7.821  | ppbv | # 1    |
| 41) Tetrahydrofuran            | 6.24 | 42  | 1248052 | 8.540  | ppbv | 96     |
| 42) Bromodichloromethane       | 8.02 | 83  | 2755652 | 9.492  | ppbv | 97     |
| 43) Methyl Methacrylate        | 8.23 | 69  | 1480499 | 9.607  | ppbv | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL070218\  
 Data File : VL032178.D  
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 Operator : SY/AP  
 Sample : VL0702ABS01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

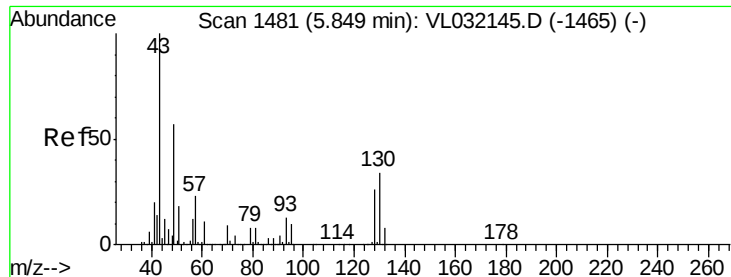
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

Quant Time: Jul 03 05:01:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 29 22:27:58 2018  
 QLast Update : Fri Jun 29 22:27:58 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 8.09  | 57   | 5768761  | 8.868  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.51  | 75   | 1783991  | 9.343  | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.94  | 75   | 2107521  | 9.244  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.72  | 97   | 1364876  | 8.956  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.56 | 129  | 2109435  | 8.941  | ppbv   | 99       |
| 49) Bromoform                 | 13.31 | 173  | 1724053  | 8.726  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.97  | 43   | 3532681  | 8.846  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.37 | 43   | 2999267  | 9.059  | ppbv   | 100      |
| 52) Tetrachloroethene         | 11.48 | 164  | 1039097  | 7.686  | ppbv   | 95       |
| 53) Toluene                   | 10.05 | 91   | 3898000  | 8.675  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.87 | 107  | 2014821  | 8.794  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.38 | 131  | 1444490  | 8.828  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.41 | 112  | 2823864  | 8.898  | ppbv   | 94       |
| 58) Ethyl Benzene             | 12.97 | 91   | 5321654  | 9.011  | ppbv   | 96       |
| 59) m/p-Xylene                | 13.26 | 91   | 4139600  | 8.744  | ppbv # | 29       |
| 60) o-Xylene                  | 13.96 | 91   | 4137423  | 8.763  | ppbv   | 96       |
| 61) Styrene                   | 13.79 | 104  | 3425034  | 8.851  | ppbv   | 95       |
| 62) Isopropylbenzene          | 14.93 | 105  | 5953171  | 8.200  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.94 | 83   | 2965242  | 8.110  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.83 | 120  | 1512742  | 8.051  | ppbv   | 84       |
| 65) tert-Butylbenzene         | 17.01 | 119  | 5192570  | 8.139  | ppbv   | 92       |
| 66) Benzyl Chloride           | 17.26 | 91   | 3111833  | 7.898  | ppbv   | 94       |
| 67) sec-Butylbenzene          | 17.56 | 105  | 7827128  | 8.379  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.92 | 119  | 6371459  | 8.503  | ppbv   | 96       |
| 70) n-Butylbenzene            | 18.82 | 91   | 7078722  | 9.047  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.72 | 91   | 4702857  | 8.413  | ppbv   | 95       |
| 72) 4-Ethyltoluene            | 16.10 | 105  | 5043147  | 8.270  | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 16.26 | 105  | 4818849  | 8.389  | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 17.03 | 105  | 4988257  | 8.605  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.27 | 146  | 2773897  | 8.412  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 17.41 | 146  | 2829828  | 8.463  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 18.09 | 146  | 2805539  | 8.513  | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 23.64 | 225  | 830980   | 7.242  | ppbv   | 100      |
| 79) Naphthalene               | 22.53 | 128  | 4706307  | 8.931  | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 25.19 | 142  | 2618456  | 13.767 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 22.26 | 180  | 2120826  | 8.913  | ppbv   | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

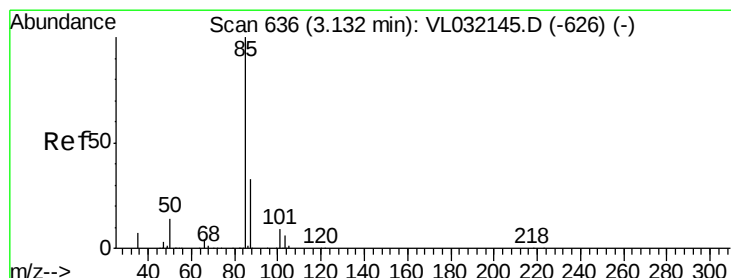
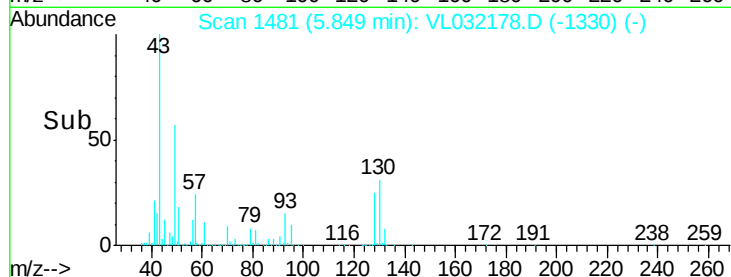
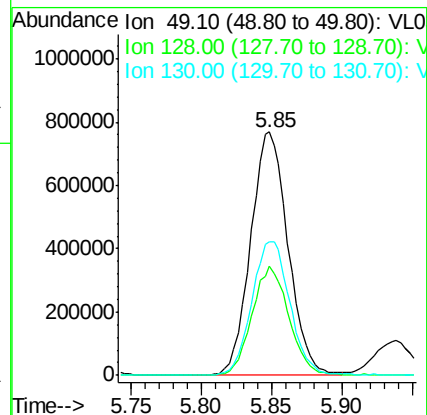
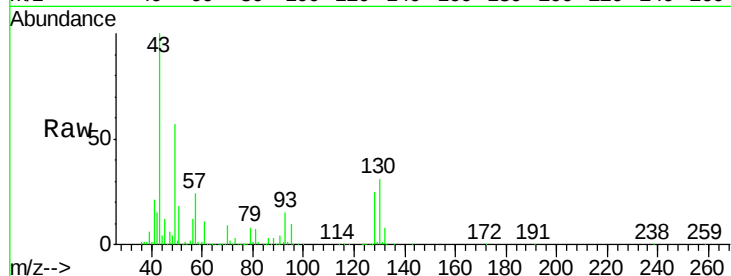
Tgt Ion: 49 Resp: 1426552

Ion Ratio Lower Upper

49 100

128 44.4 23.4 70.0

130 56.6 30.3 90.9



#2

Dichlorodifluoromethane

Concen: 6.989 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032178.D

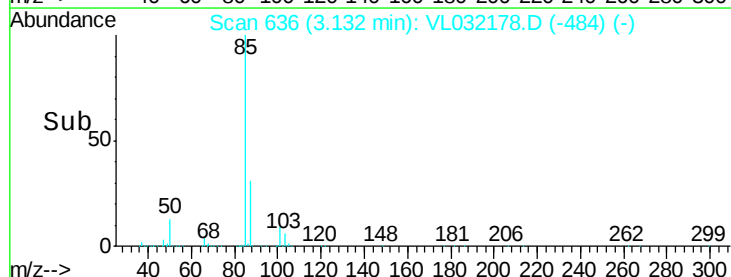
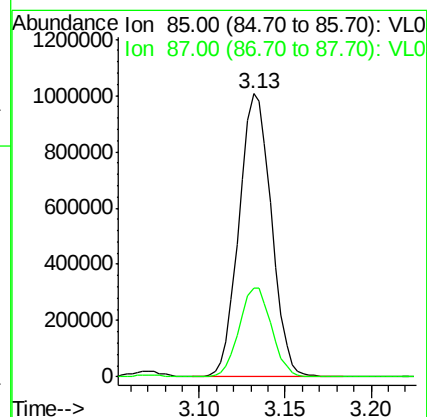
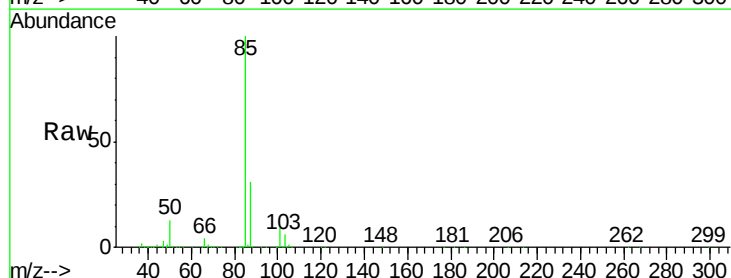
Acq: 2 Jul 2018 12:26

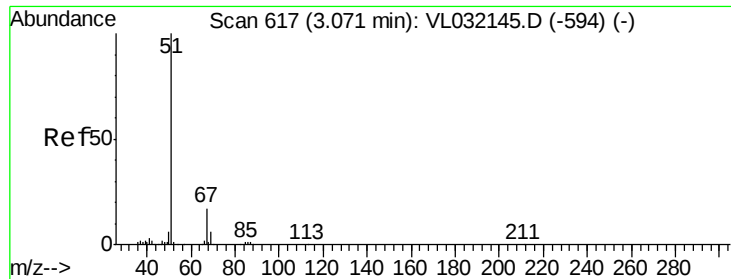
Tgt Ion: 85 Resp: 1312824

Ion Ratio Lower Upper

85 100

87 31.5 26.7 40.1

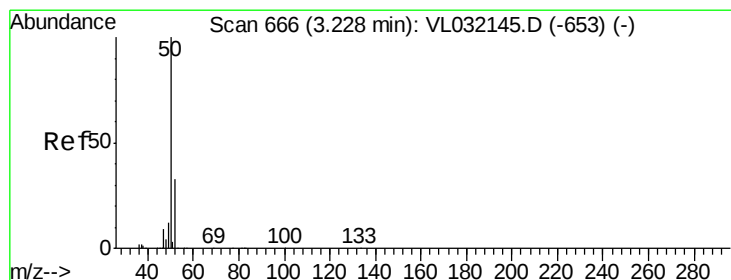
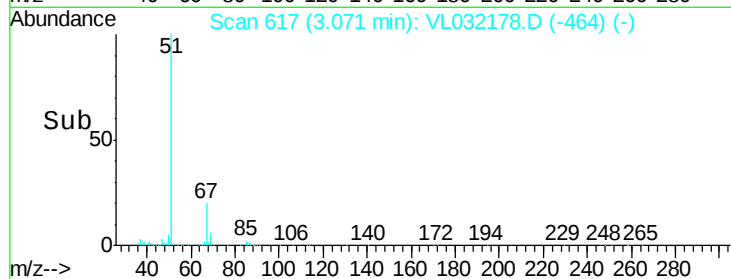
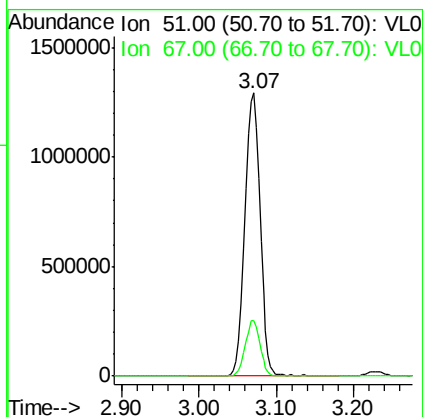
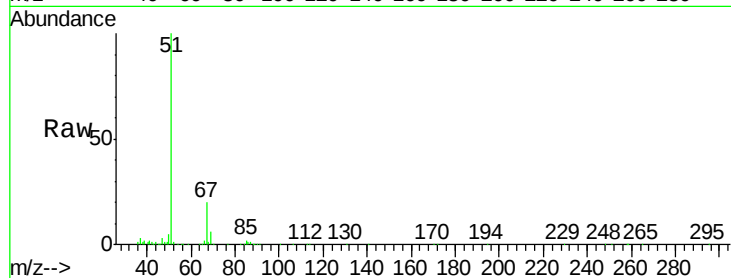




#3  
Chlorodifluoromethane  
Concen: 10.158 ppbv  
RT: 3.07 min Scan# 617  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

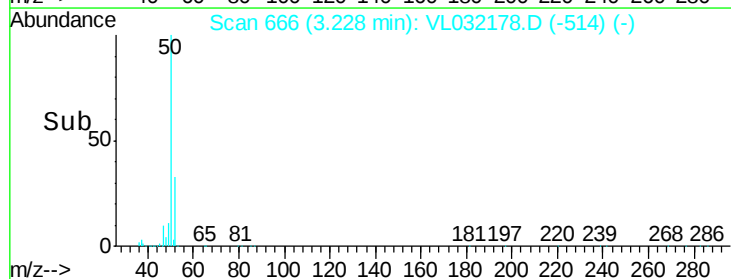
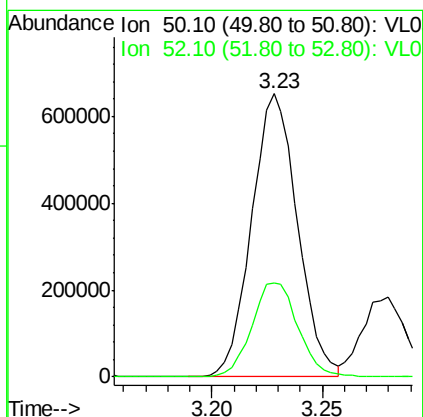
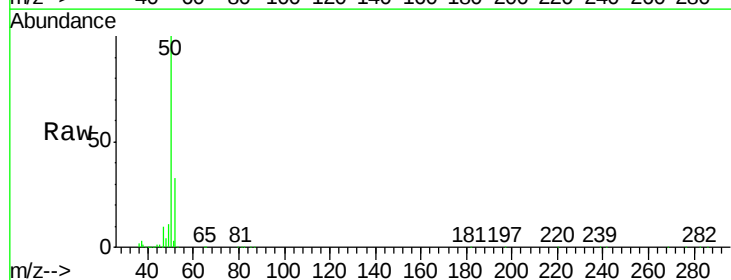
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0702ABS01

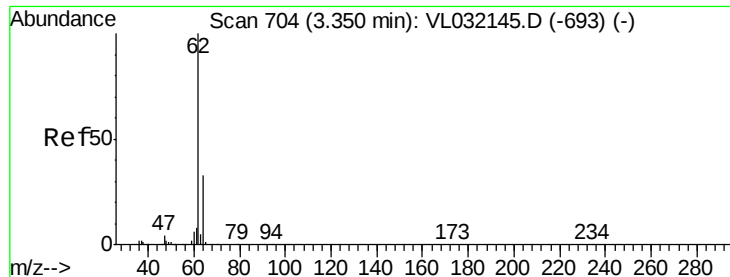
Tgt Ion: 51 Resp: 1770546  
Ion Ratio Lower Upper  
51 100  
67 19.2 13.2 19.8



#4  
Chloromethane  
Concen: 10.119 ppbv  
RT: 3.23 min Scan# 666  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

Tgt Ion: 50 Resp: 941593  
Ion Ratio Lower Upper  
50 100  
52 33.1 26.0 39.0





#5

Vinyl Chloride

Concen: 9.745 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

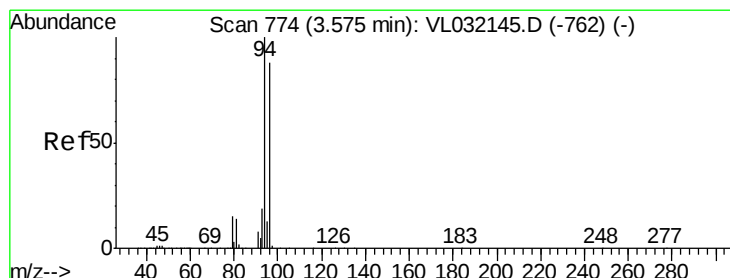
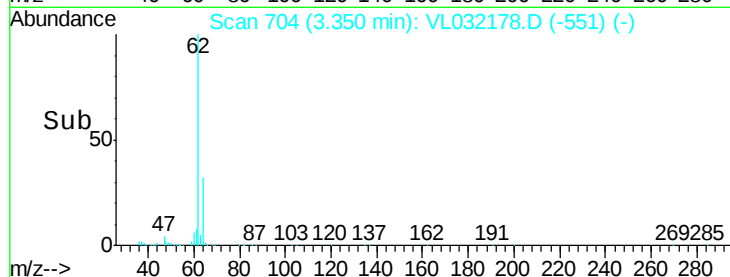
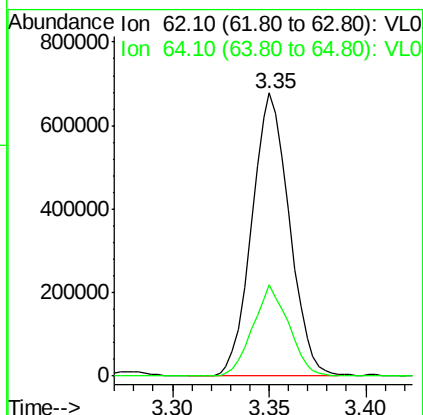
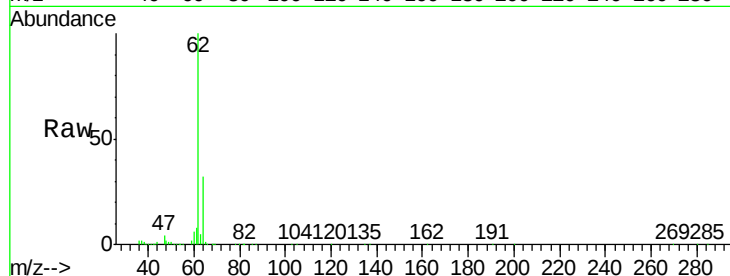
VL0702ABS01

Tgt Ion: 62 Resp: 915882

Ion Ratio Lower Upper

62 100

64 32.1 26.1 39.1



#6

Bromomethane

Concen: 10.283 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032178.D

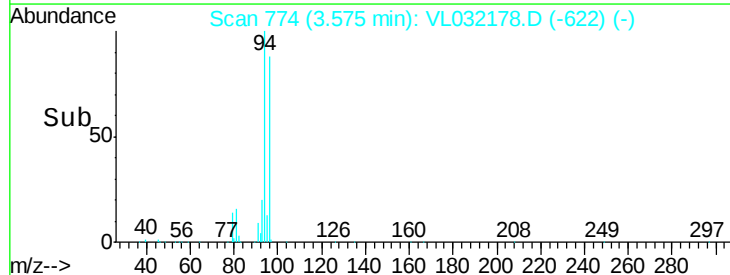
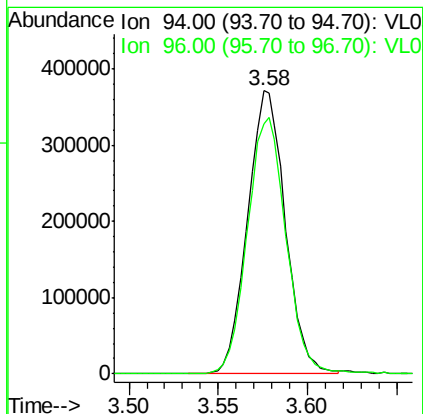
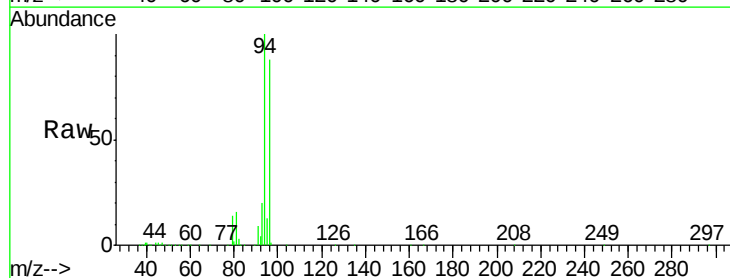
Acq: 2 Jul 2018 12:26

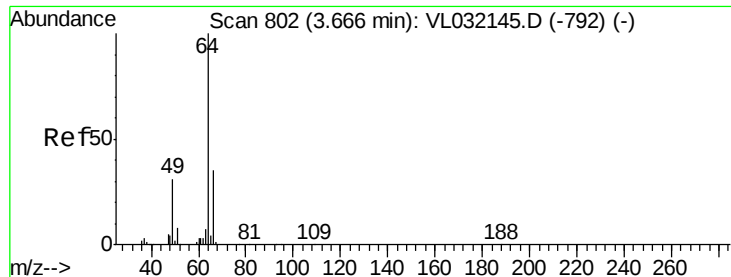
Tgt Ion: 94 Resp: 550476

Ion Ratio Lower Upper

94 100

96 88.2 74.7 112.1





#7

Chloroethane

Concen: 10.205 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

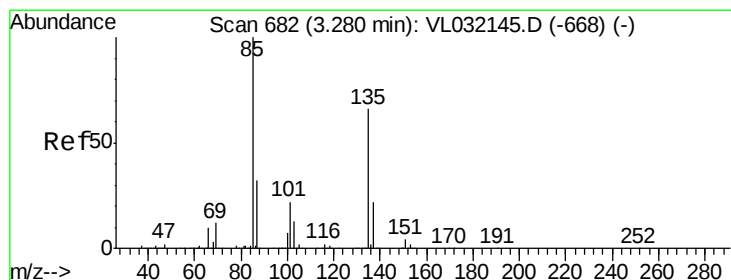
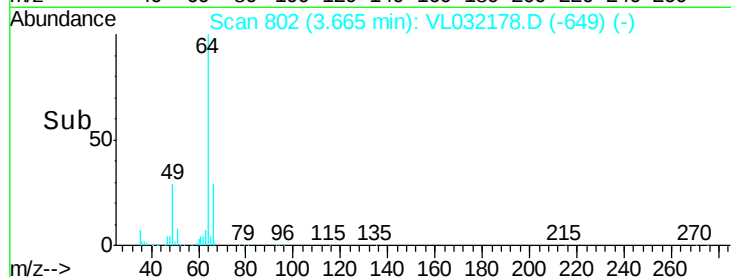
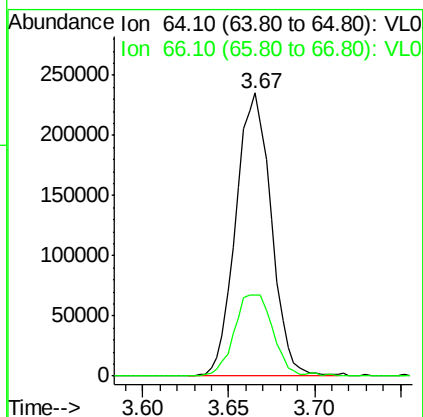
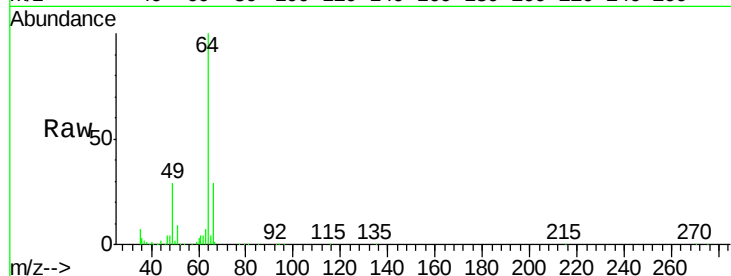
VL0702ABS01

Tgt Ion: 64 Resp: 339173

Ion Ratio Lower Upper

64 100

66 28.6 26.9 40.3



#8

Dichlorotetrafluoroethane

Concen: 9.629 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032178.D

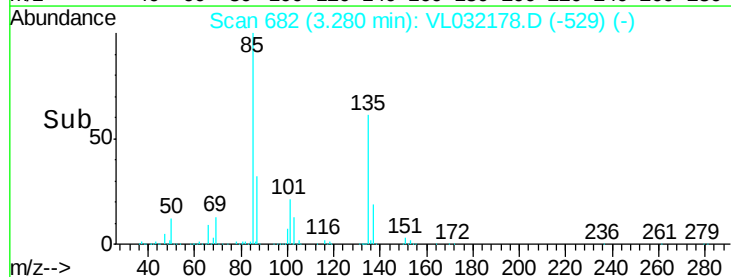
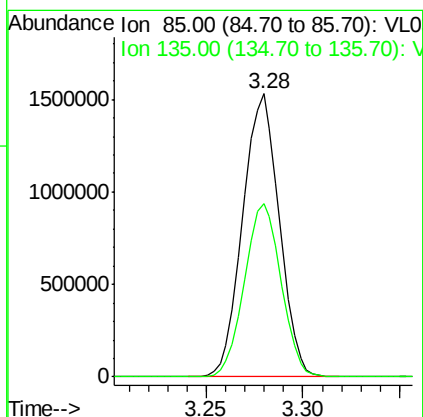
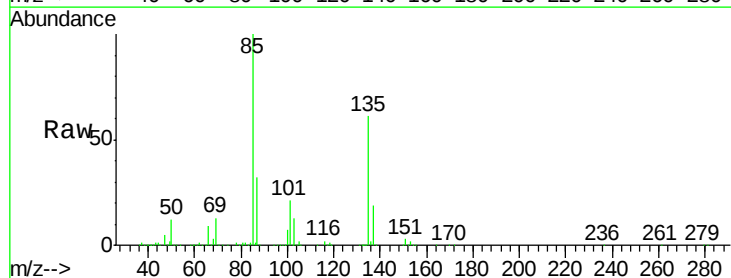
Acq: 2 Jul 2018 12:26

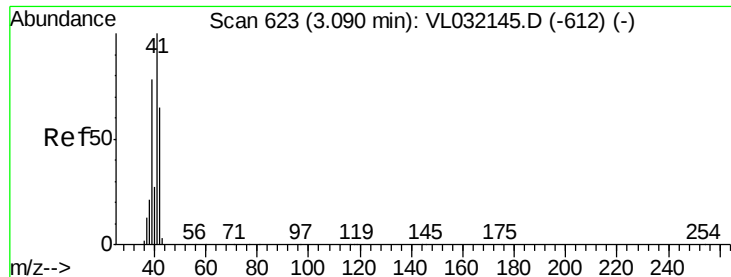
Tgt Ion: 85 Resp: 2018518

Ion Ratio Lower Upper

85 100

135 61.3 54.6 82.0





#9

Propene

Concen: 9.414 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

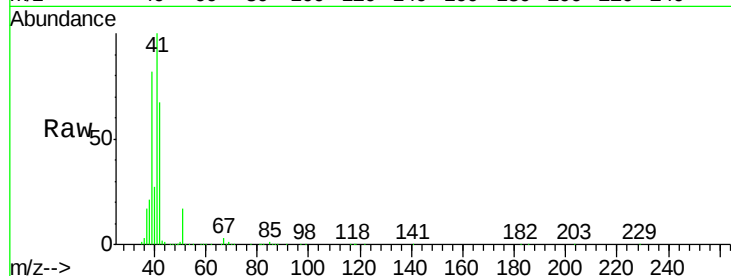
VL0702ABS01

Tgt Ion: 41 Resp: 764753

Ion Ratio Lower Upper

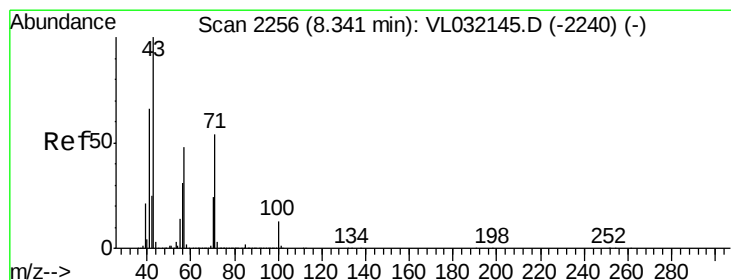
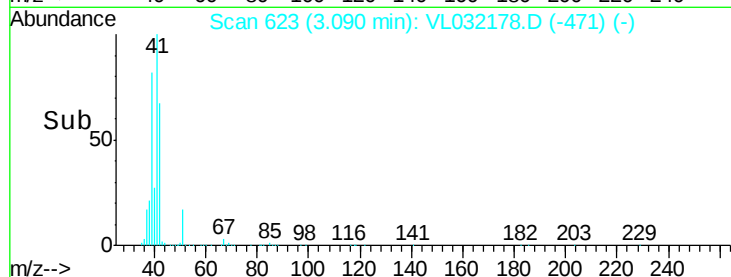
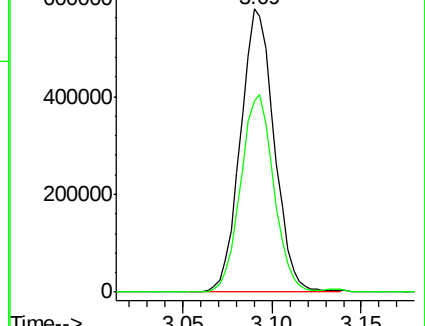
41 100

42 69.4 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.105 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032178.D

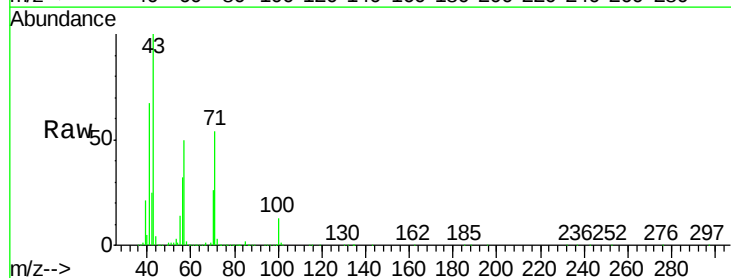
Acq: 2 Jul 2018 12:26

Tgt Ion: 43 Resp: 2156508

Ion Ratio Lower Upper

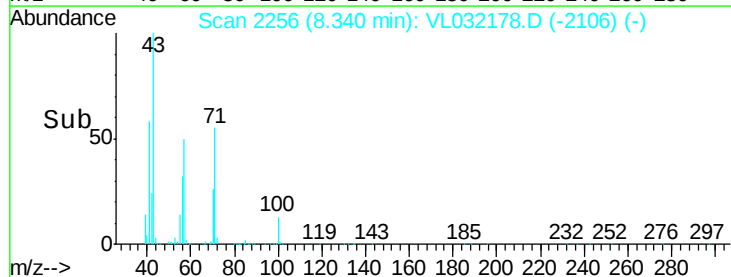
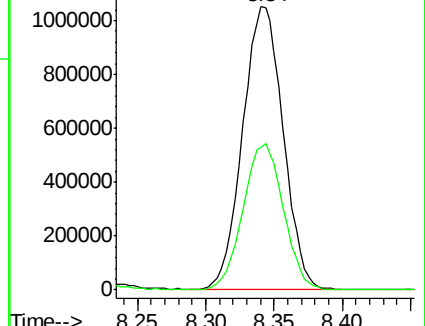
43 100

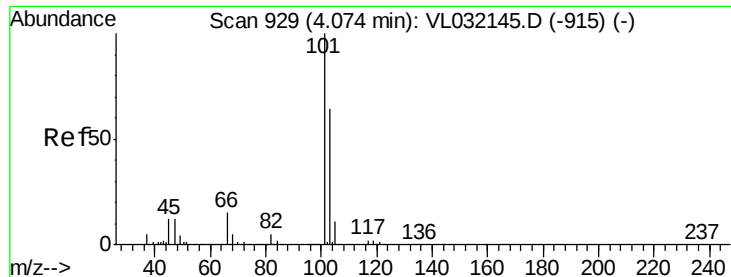
57 51.4 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

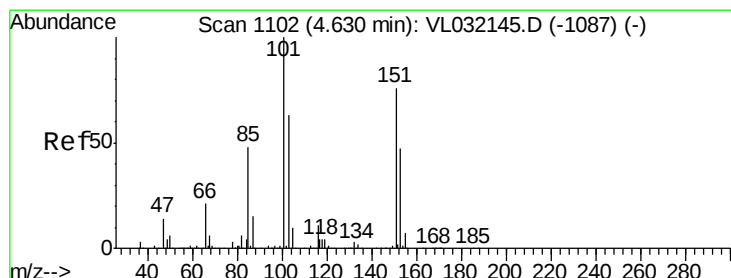
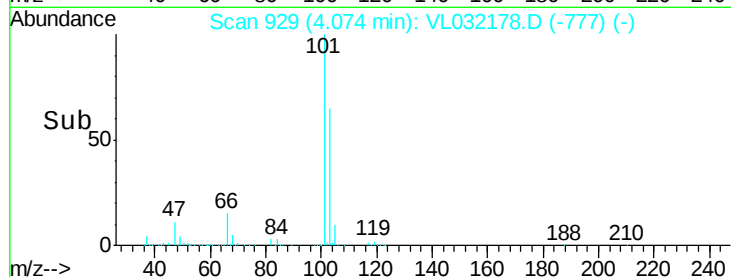
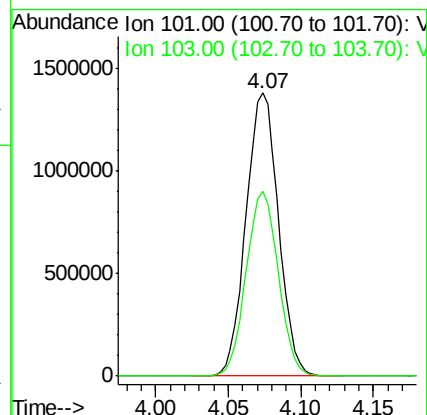
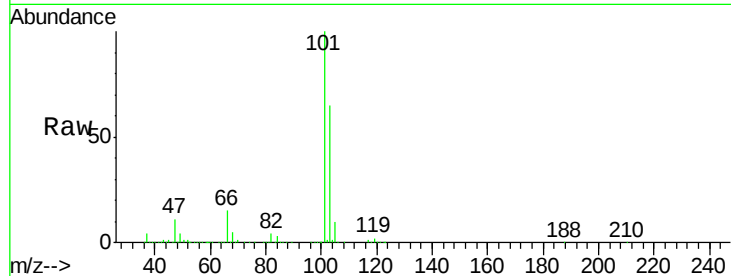




#11  
 Trichlorofluoromethane  
 Concen: 10.600 ppbv  
 RT: 4.07 min Scan# 929  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

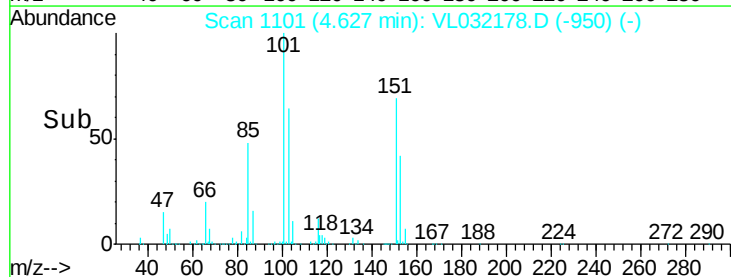
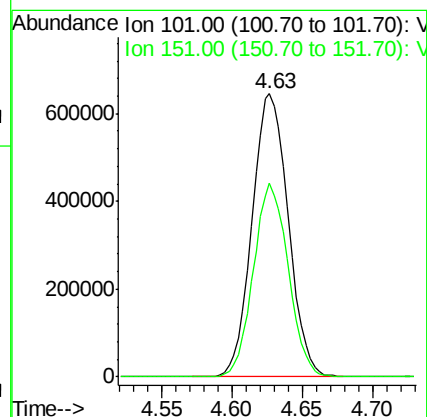
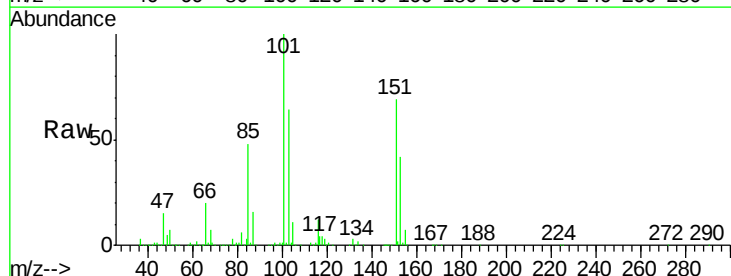
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

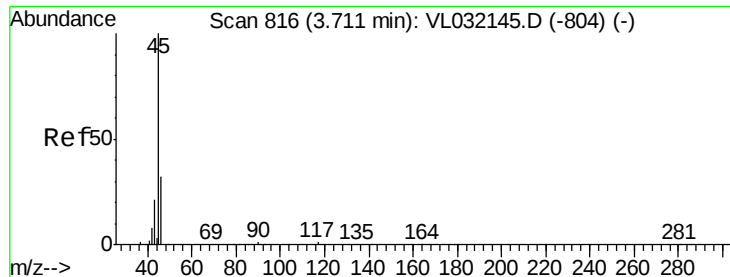
Tgt Ion:101 Resp: 2154124  
 Ion Ratio Lower Upper  
 101 100  
 103 65.1 51.4 77.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 8.553 ppbv  
 RT: 4.63 min Scan# 1101  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion:101 Resp: 1157611  
 Ion Ratio Lower Upper  
 101 100  
 151 66.2 58.8 88.2





#13

Ethanol

Concen: 7.256 ppbv

RT: 3.72 min Scan# 820

Delta R.T. -0.00 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

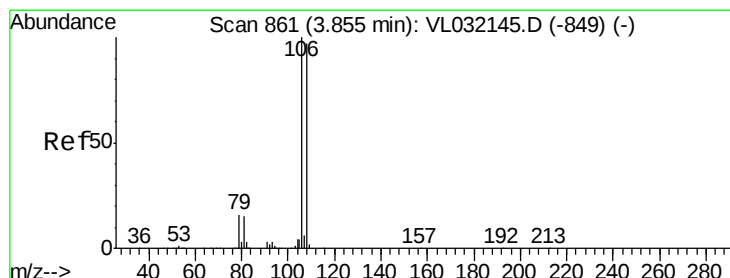
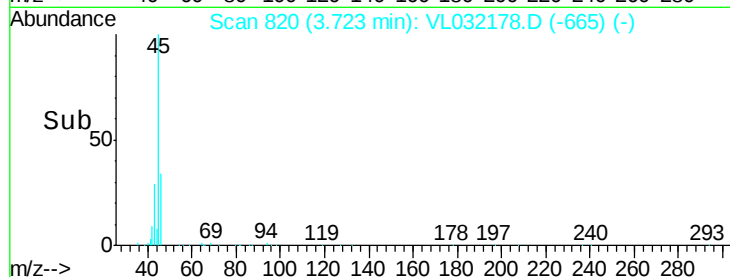
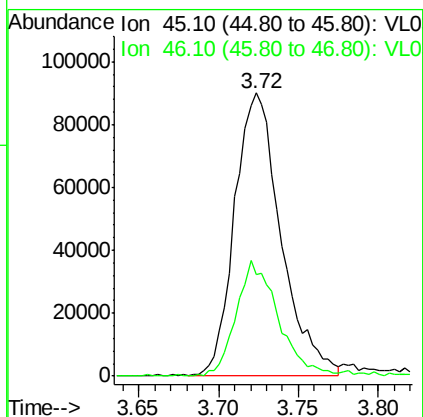
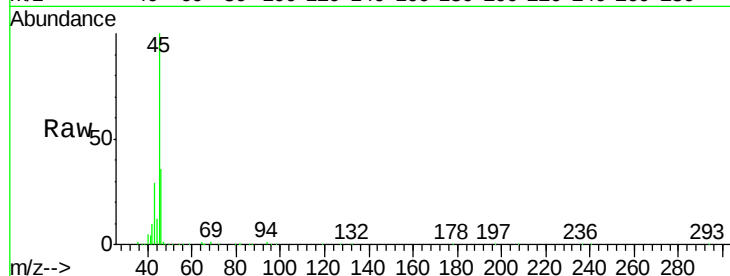
VL0702ABS01

Tgt Ion: 45 Resp: 178692

Ion Ratio Lower Upper

45 100

46 37.7 14.6 58.4



#14

Bromoethene

Concen: 10.329 ppbv

RT: 3.86 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

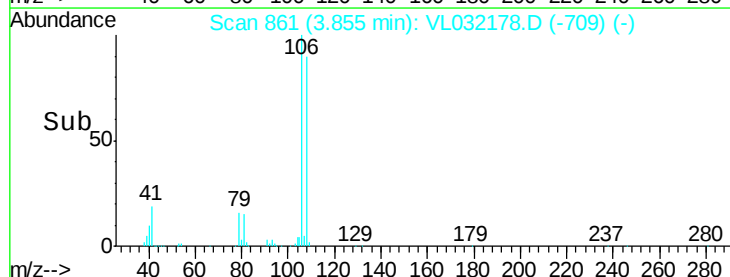
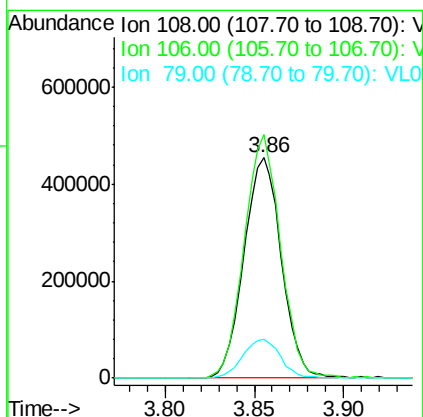
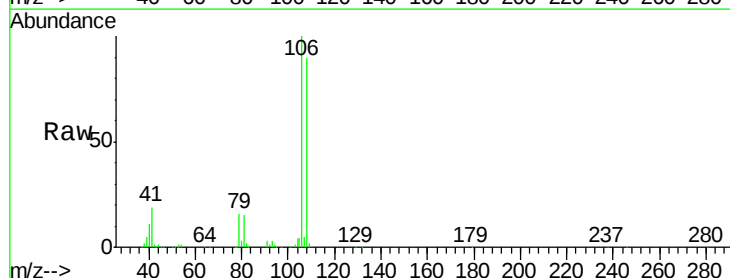
Tgt Ion: 108 Resp: 665143

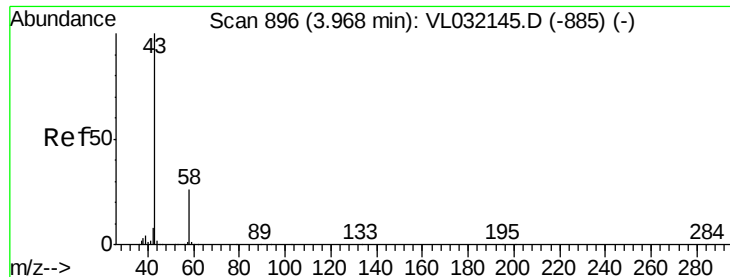
Ion Ratio Lower Upper

108 100

106 108.2 86.3 129.5

79 17.9 12.7 19.1





#15

Acetone

Concen: 10.366 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

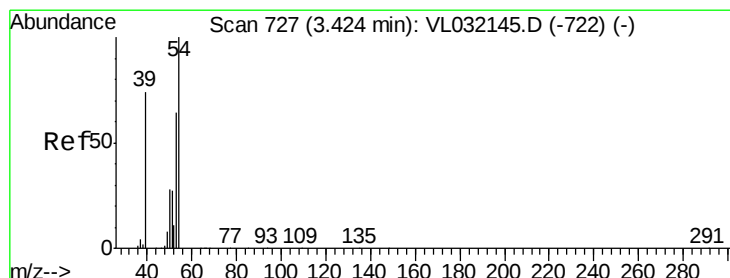
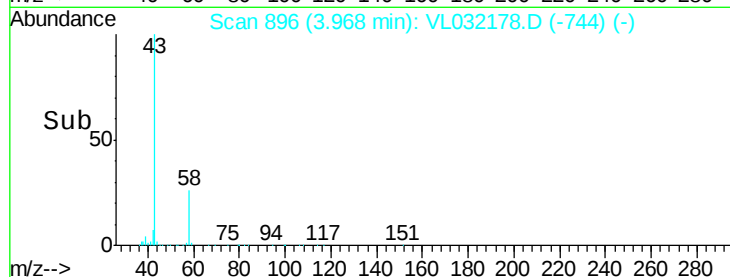
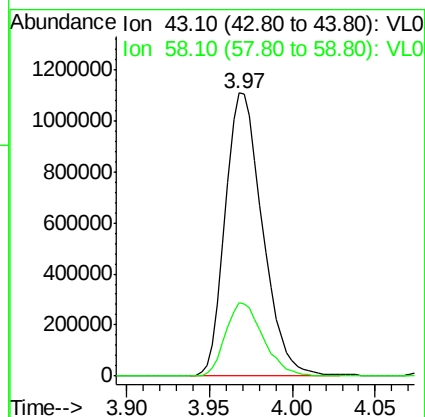
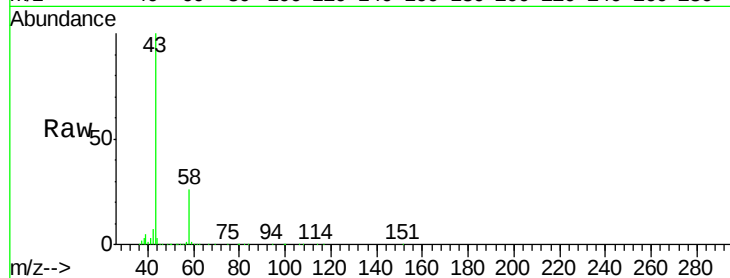
VL0702ABS01

Tgt Ion: 43 Resp: 1729064

Ion Ratio Lower Upper

43 100

58 26.3 21.4 32.0



#16

1,3-Butadiene

Concen: 10.765 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032178.D

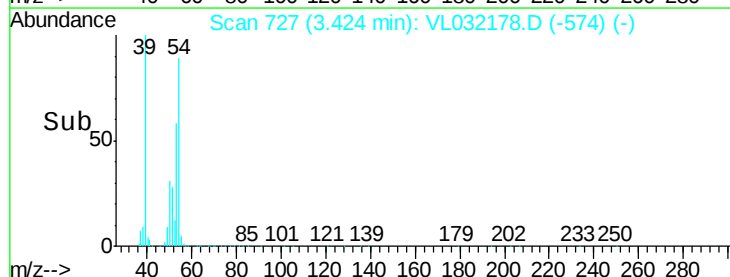
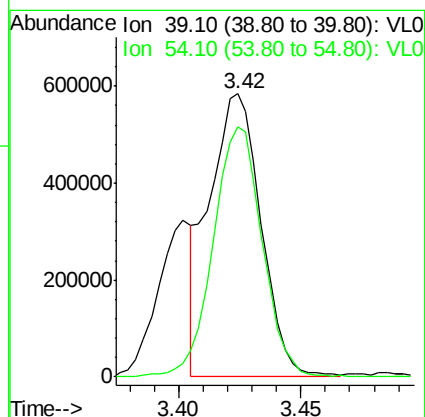
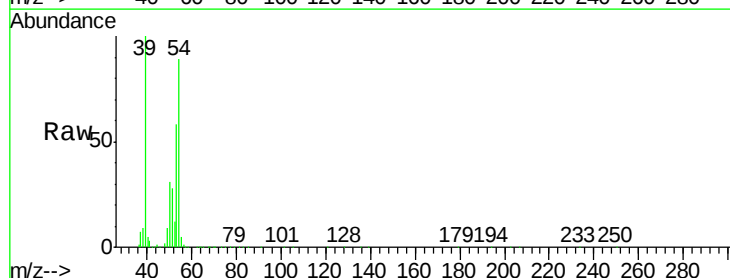
Acq: 2 Jul 2018 12:26

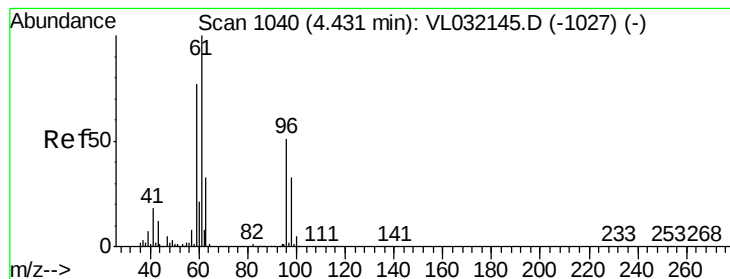
Tgt Ion: 39 Resp: 856867

Ion Ratio Lower Upper

39 100

54 85.0 75.8 113.6





#17

tert-Butyl alcohol

Concen: 7.338 ppbv

RT: 4.44 min Scan# 1042

Delta R.T. -0.00 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

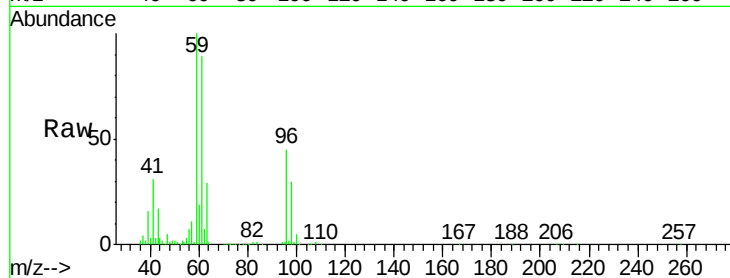
VL0702ABS01

Tgt Ion: 59 Resp: 779396

Ion Ratio Lower Upper

59 100

57 10.7 8.2 12.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.44

400000

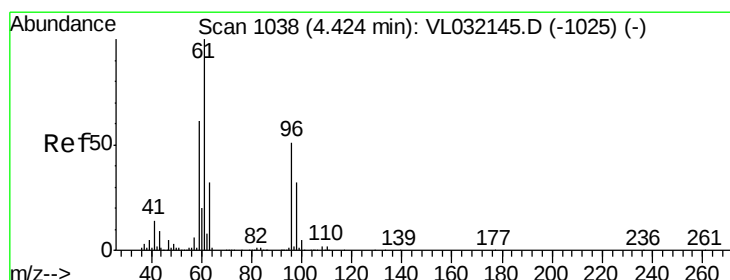
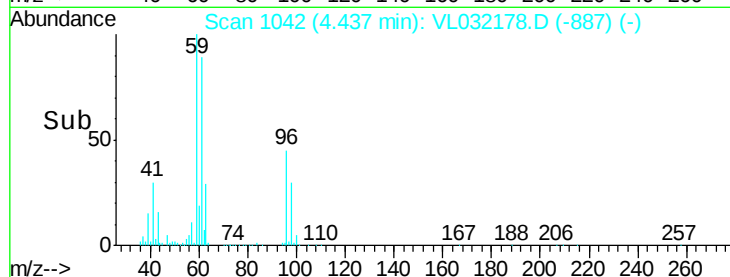
300000

200000

100000

0

Time--> 4.35 4.40 4.45 4.50



#18

1,1-Dichloroethene

Concen: 8.507 ppbv

RT: 4.42 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

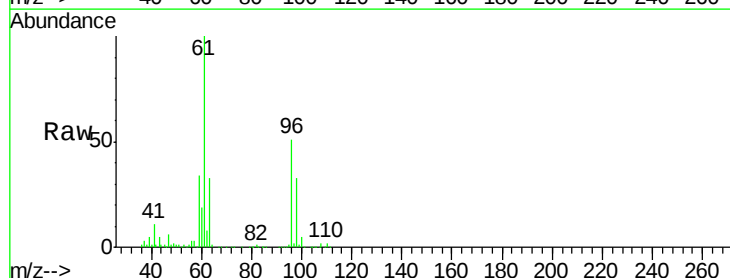
Tgt Ion: 96 Resp: 550764

Ion Ratio Lower Upper

96 100

61 197.0 154.1 231.1

98 64.4 50.3 75.5



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

800000

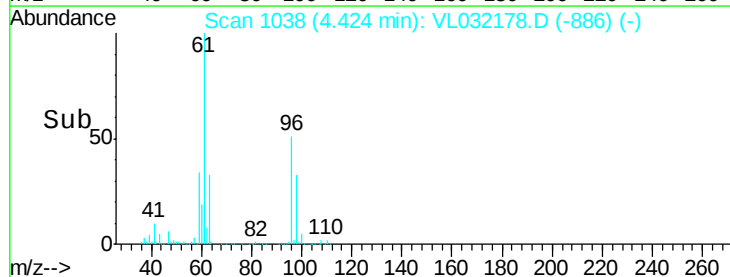
600000

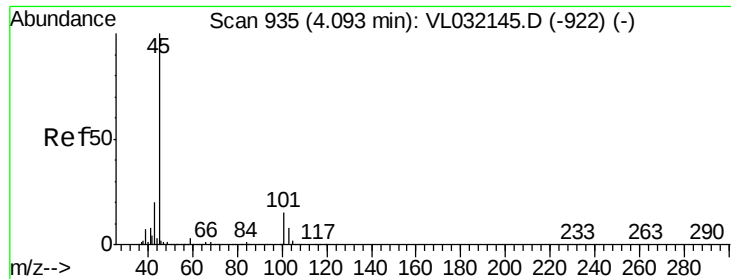
400000

200000

0

Time--> 4.35 4.40 4.45





#19

Isopropyl Alcohol

Concen: 9.064 ppbv

RT: 4.10 min Scan# 937

Delta R.T. -0.00 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

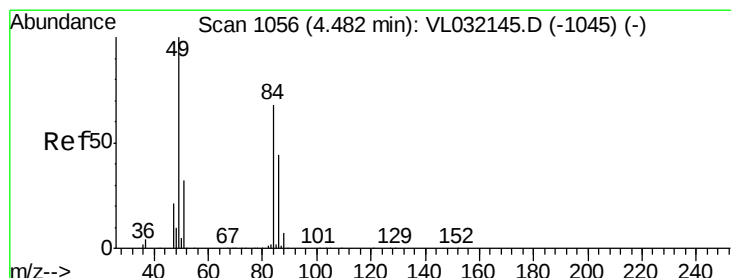
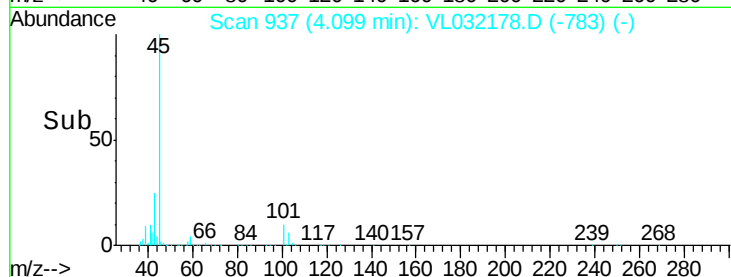
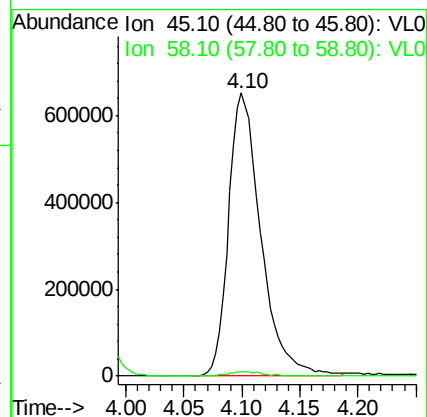
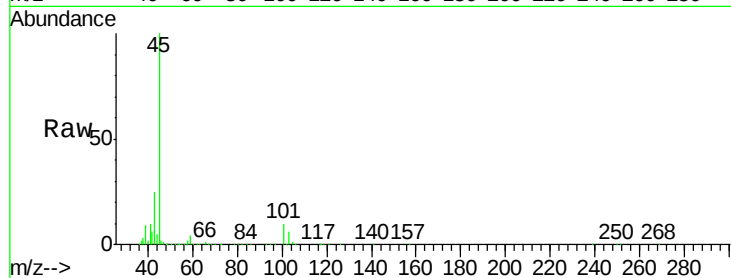
VL0702ABS01

Tgt Ion: 45 Resp: 1256162

Ion Ratio Lower Upper

45 100

58 1.5 29.4 44.0#



#20

Methylene Chloride

Concen: 8.786 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion: 84 Resp: 535552

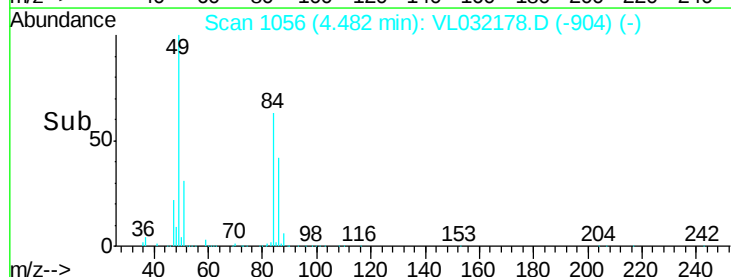
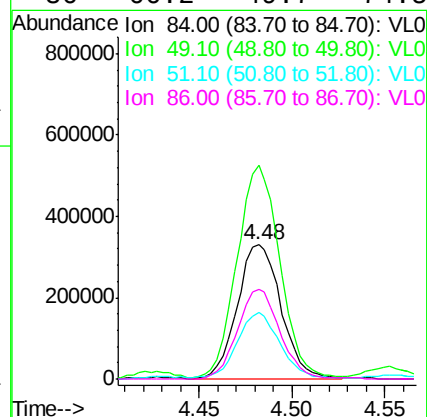
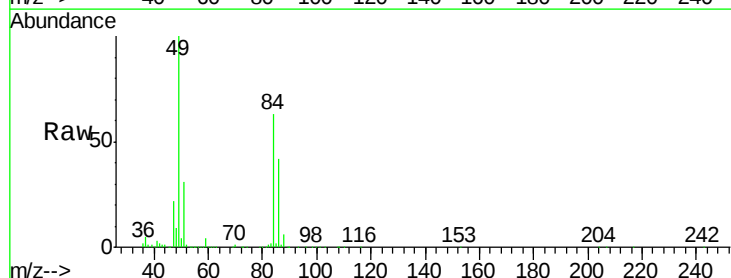
Ion Ratio Lower Upper

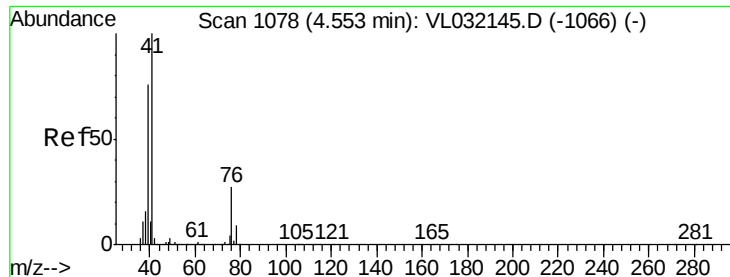
84 100

49 158.1 119.6 179.4

51 49.0 36.3 54.5

86 66.2 49.7 74.5

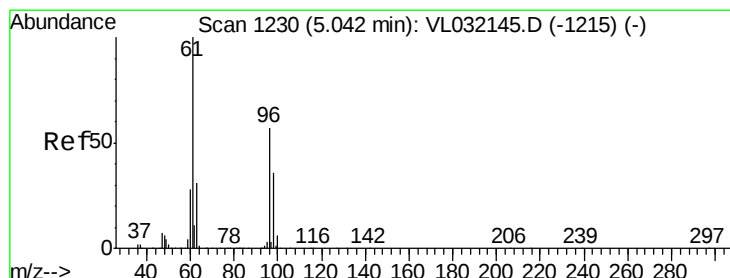
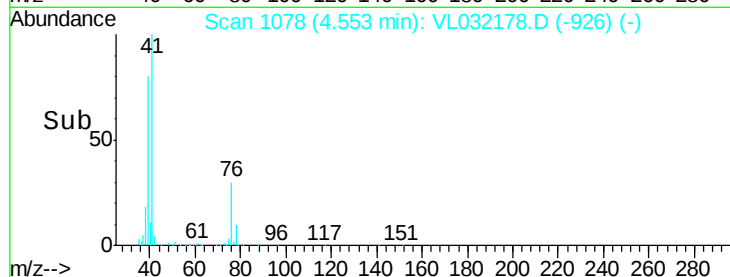
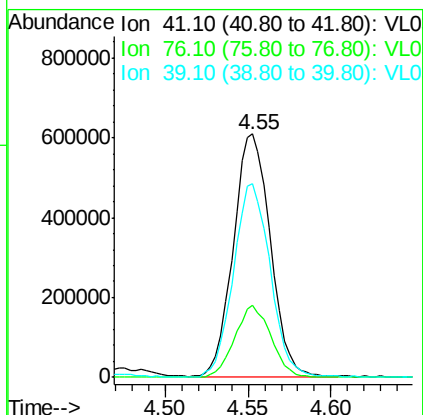
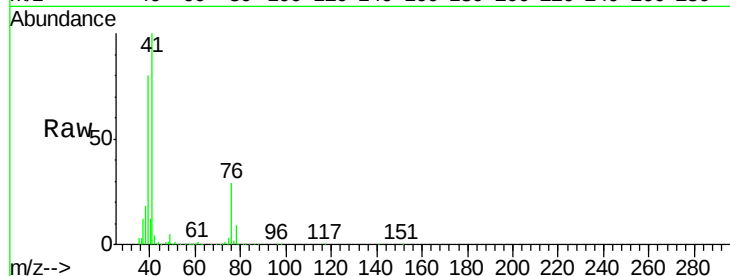




#21  
 Allyl Chloride  
 Concen: 8.273 ppbv  
 RT: 4.55 min Scan# 1078  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

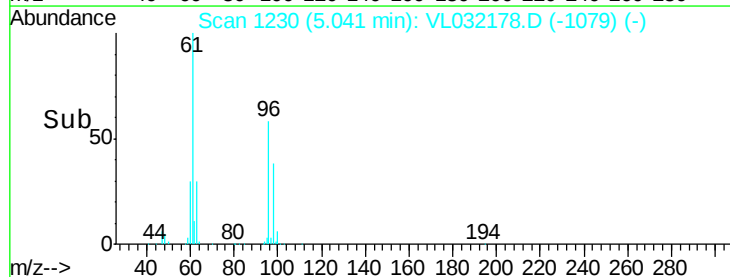
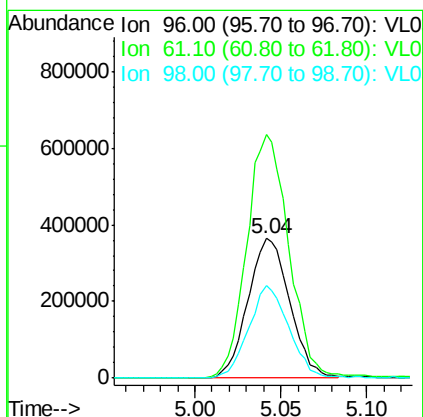
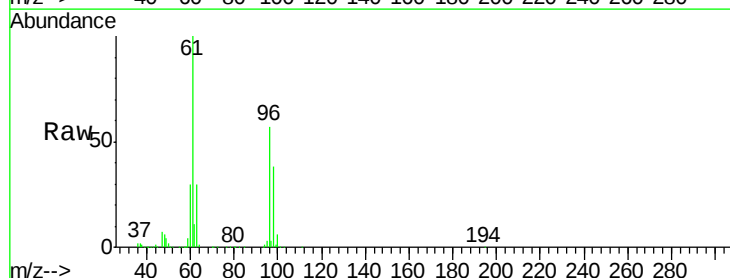
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

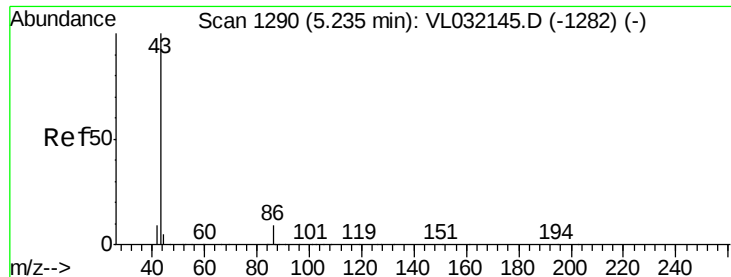
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 29.0  | 22.5  | 33.7  |
| 39      | 79.4  | 60.5  | 90.7  |



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.090 ppbv  
 RT: 5.04 min Scan# 1230  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 174.6 | 135.2 | 202.8 |
| 98      | 66.5  | 49.7  | 74.5  |





#23

Vinyl Acetate

Concen: 8.566 ppbv

RT: 5.23 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

Tgt Ion: 43 Resp: 2591189

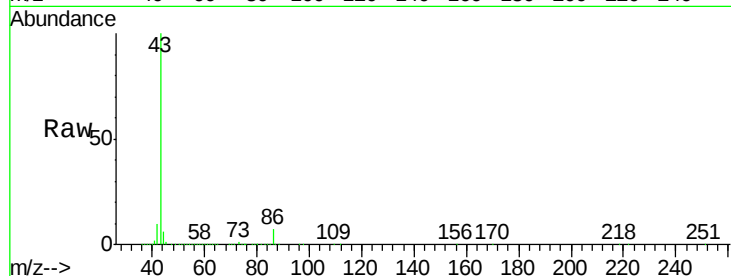
Ion Ratio Lower Upper

43 100

86 7.4 6.2 9.4

42 9.6 6.9 10.3

44 5.4 3.8 5.8

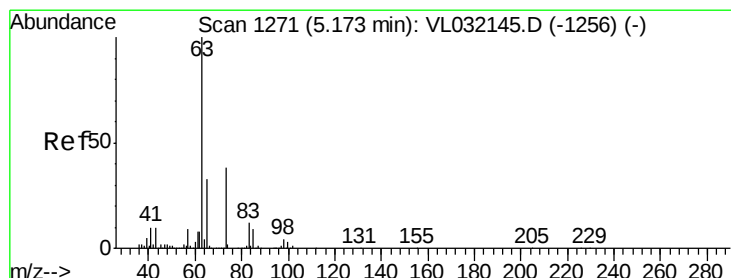
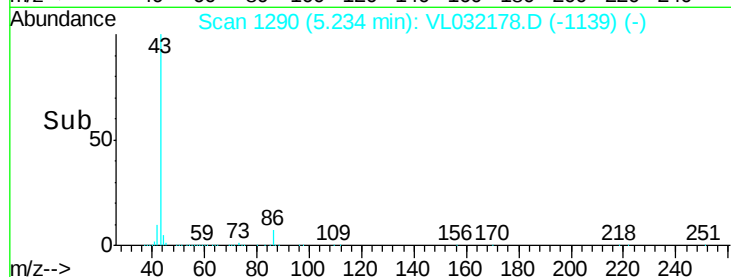
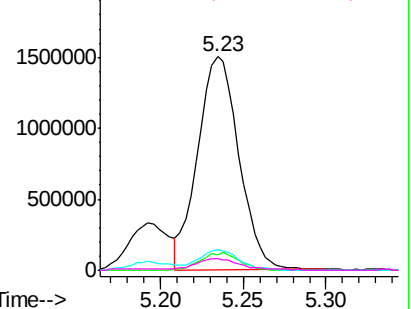


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.180 ppbv

RT: 5.17 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

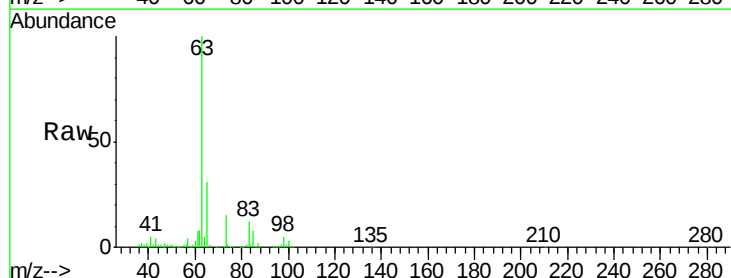
Tgt Ion: 63 Resp: 1778940

Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.2

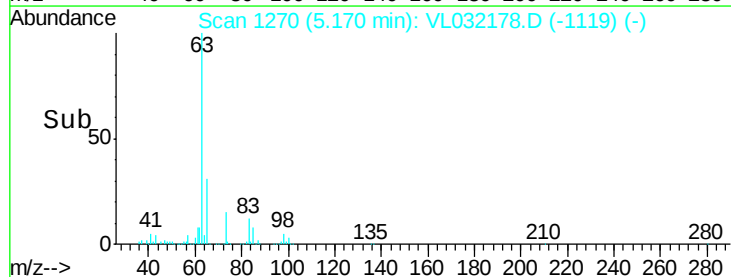
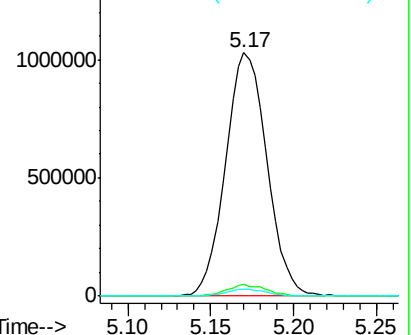
100 2.9 1.7 5.0

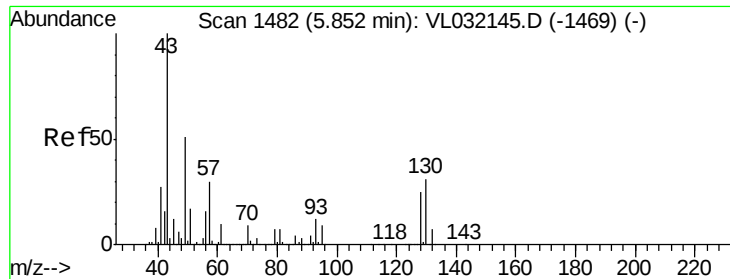


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

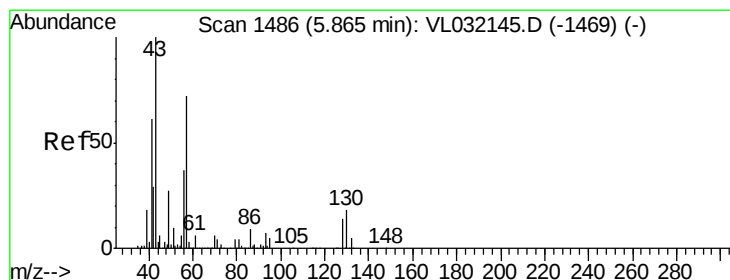
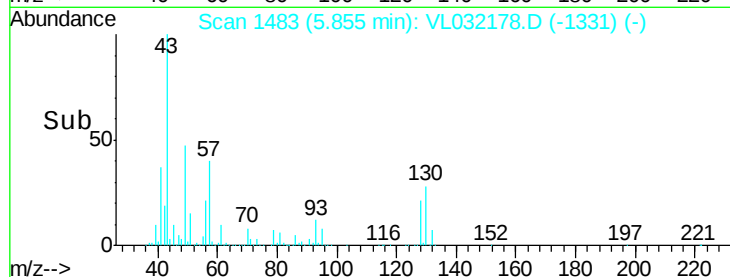
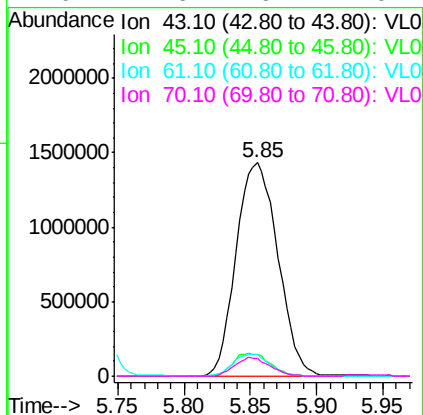
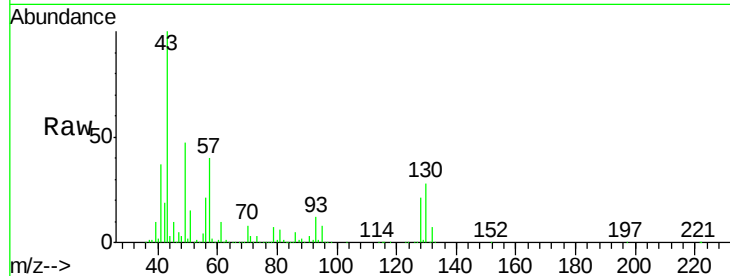




#25  
Ethyl Acetate  
Concen: 9.089 ppbv  
RT: 5.85 min Scan# 1483  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

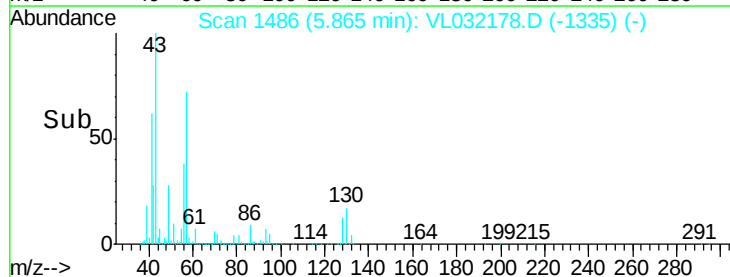
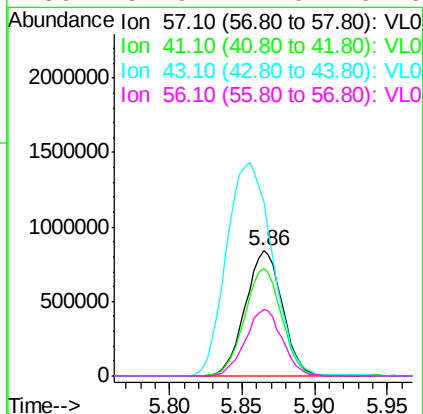
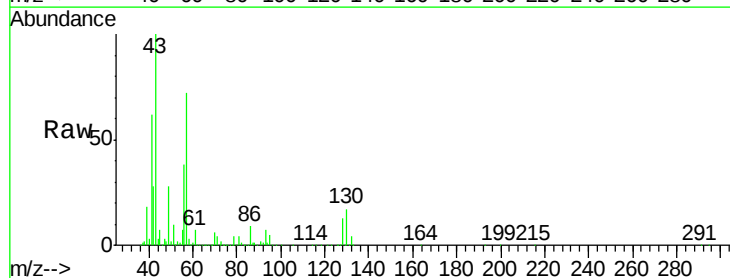
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0702ABS01

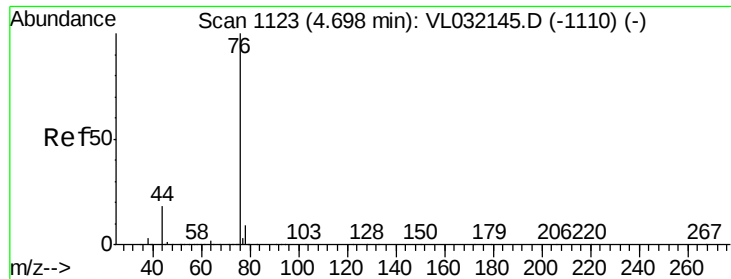
Tgt Ion: 43 Resp: 3136789  
Ion Ratio Lower Upper  
43 100  
45 9.7 7.8 11.8  
61 9.4 7.4 11.0  
70 7.6 6.1 9.1



#26  
Hexane  
Concen: 9.411 ppbv  
RT: 5.86 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

Tgt Ion: 57 Resp: 1495663  
Ion Ratio Lower Upper  
57 100  
41 85.9 68.6 103.0  
43 211.1 168.6 252.8  
56 52.9 41.0 61.6





#27

Carbon Disulfide

Concen: 8.761 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

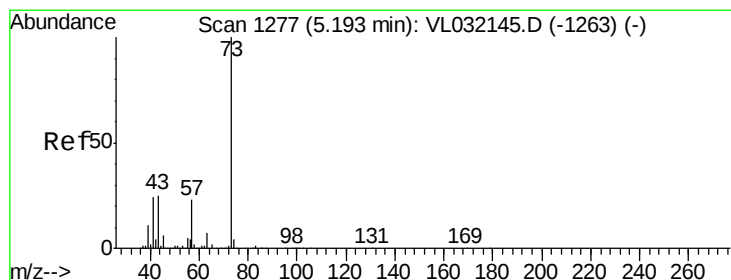
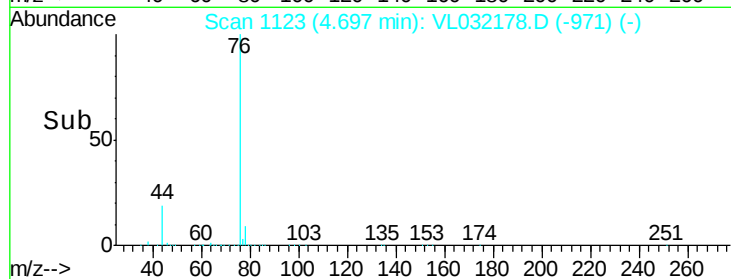
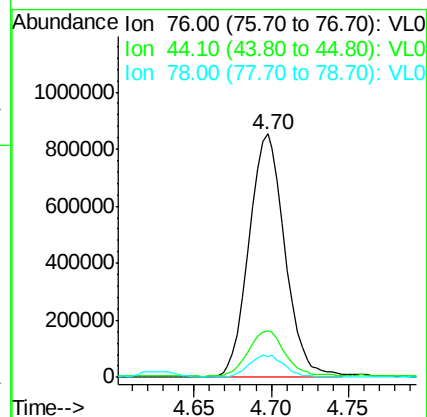
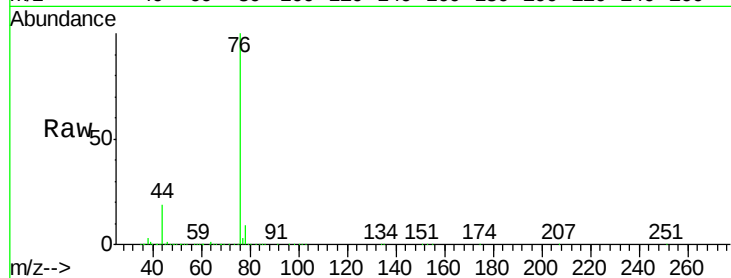
MSVOA\_L

ClientSampleId :

VL0702ABS01

Tgt Ion: 76 Resp: 1384147

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 19.1  | 15.1  | 22.7  |
| 78  | 9.3   | 7.2   | 10.8  |



#28

Methyl tert-Butyl Ether

Concen: 8.665 ppbv

RT: 5.20 min Scan# 1278

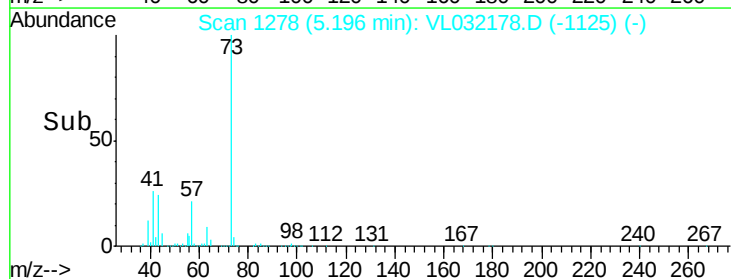
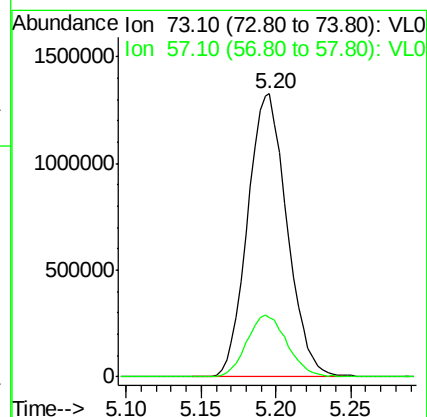
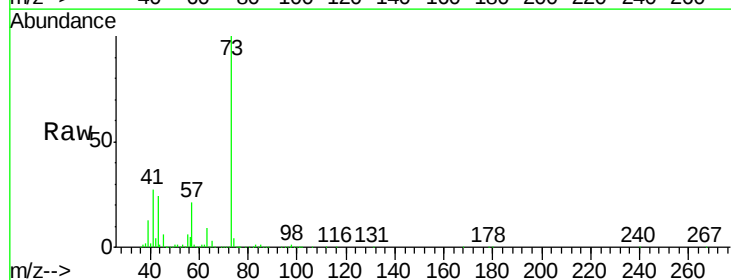
Delta R.T. -0.01 min

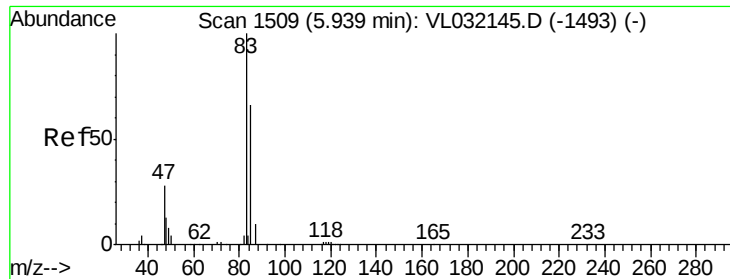
Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion: 73 Resp: 2433774

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 22.4  | 18.6  | 27.8  |





#29

Chloroform

Concen: 9.652 ppbv

RT: 5.94 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

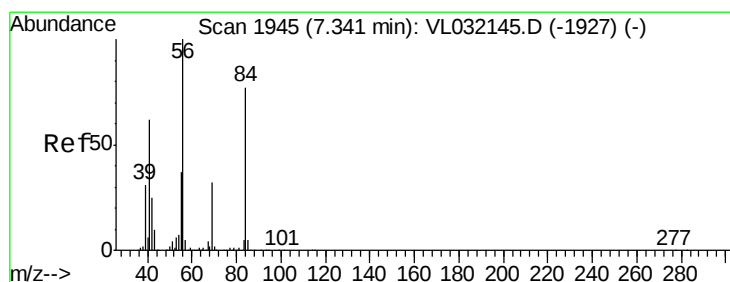
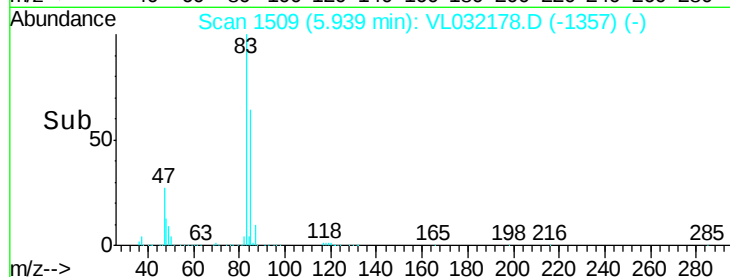
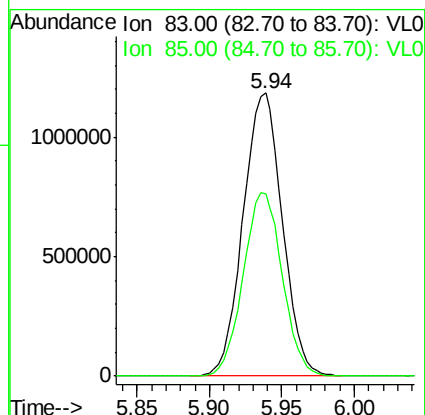
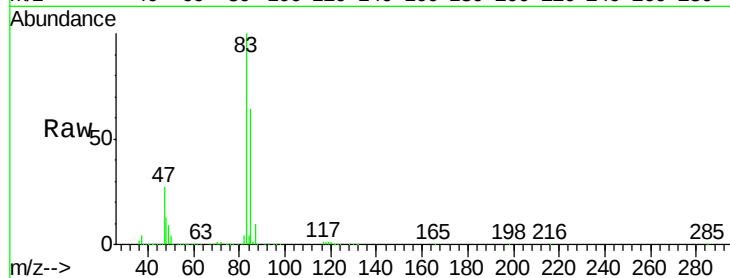
VL0702ABS01

Tgt Ion: 83 Resp: 2232969

Ion Ratio Lower Upper

83 100

85 64.4 51.6 77.4



#30

Cyclohexane

Concen: 9.753 ppbv

RT: 7.34 min Scan# 1945

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

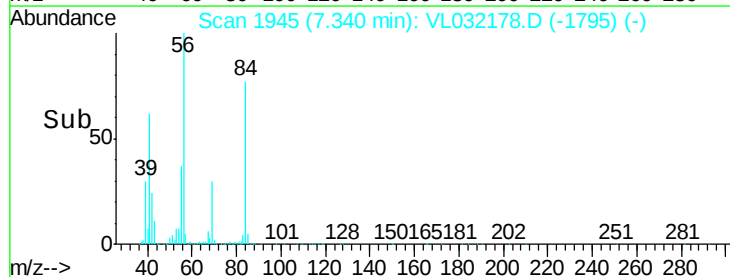
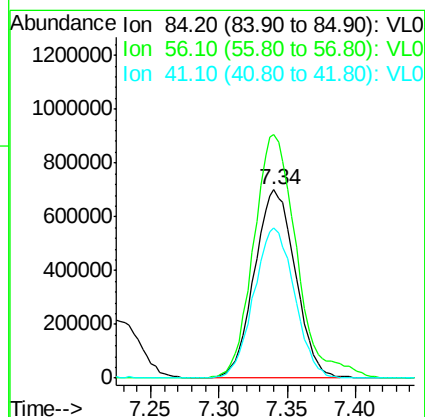
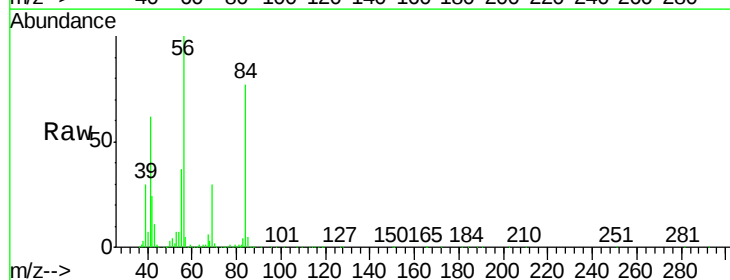
Tgt Ion: 84 Resp: 1460931

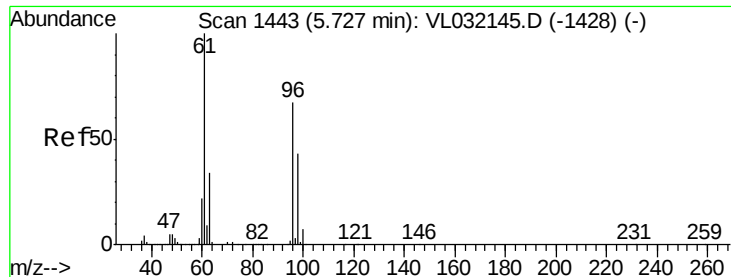
Ion Ratio Lower Upper

84 100

56 135.9 109.1 163.7

41 79.2 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 9.493 ppbv

RT: 5.73 min Scan# 1443

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

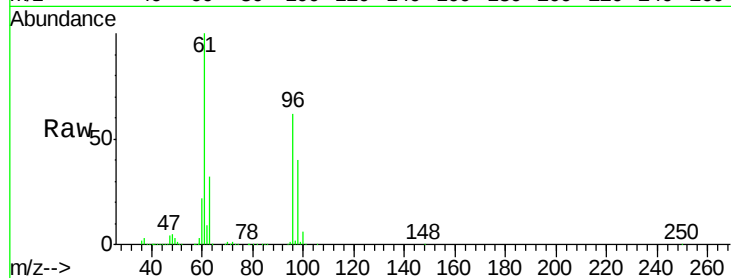
Tgt Ion: 61 Resp: 1507794

Ion Ratio Lower Upper

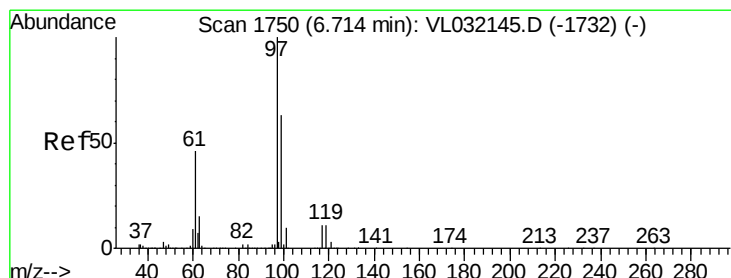
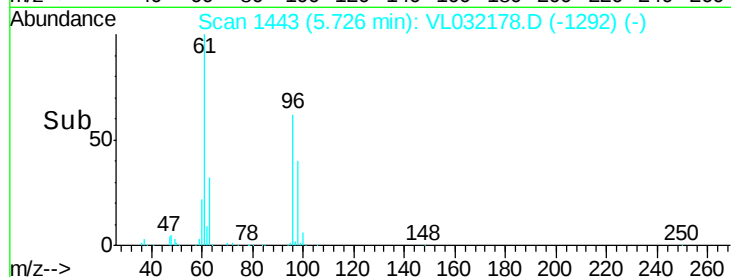
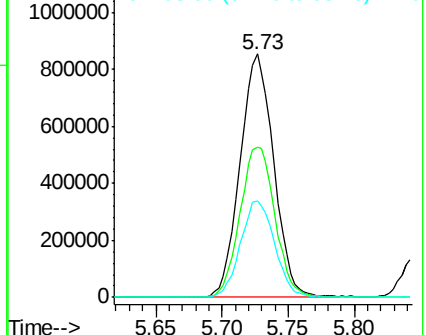
61 100

96 61.7 54.2 81.4

98 39.6 34.6 52.0



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: 10.444 ppbv

RT: 6.71 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

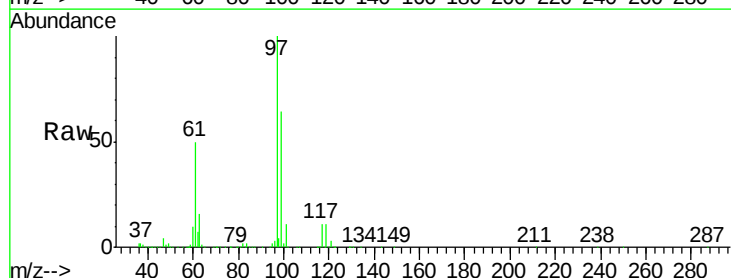
Tgt Ion: 97 Resp: 2532805

Ion Ratio Lower Upper

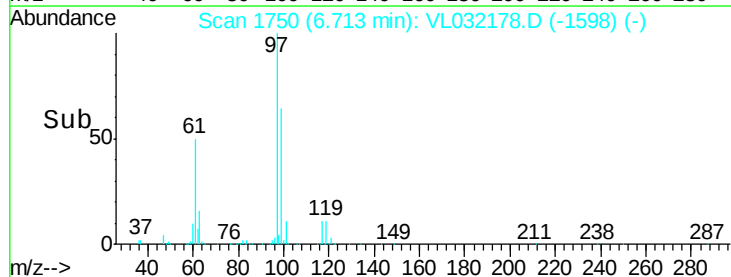
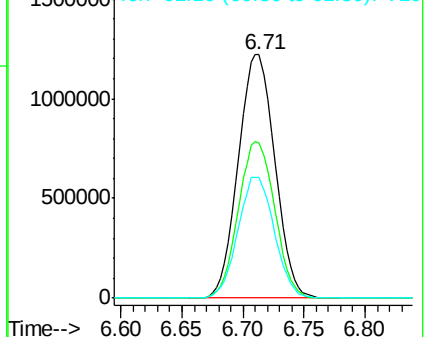
97 100

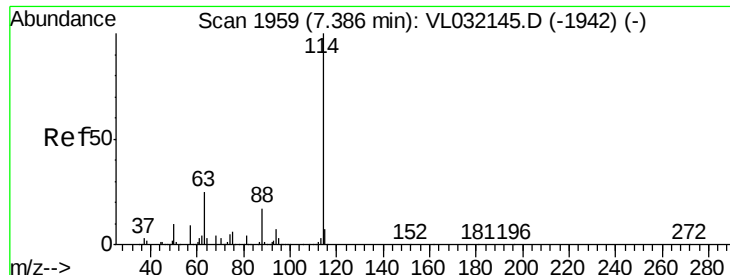
99 64.1 51.3 76.9

61 49.2 38.4 57.6



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

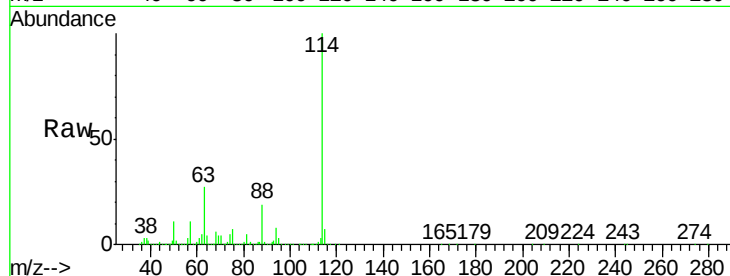




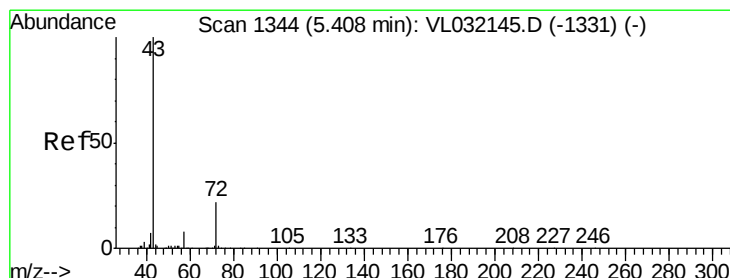
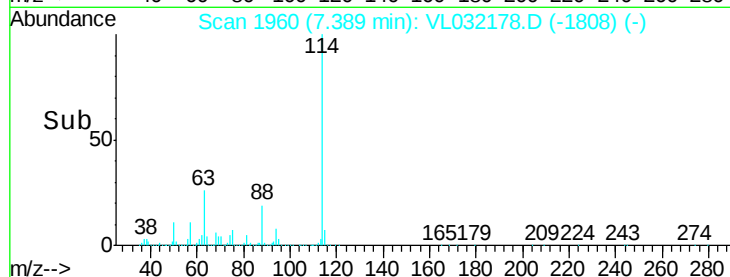
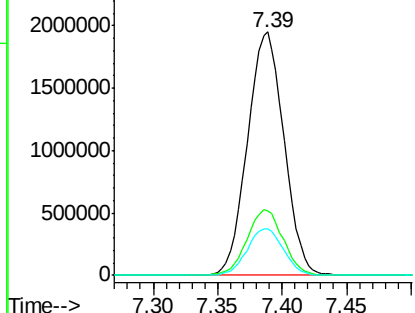
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.39 min Scan# 1960  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

Tgt Ion:114 Resp: 3841096  
 Ion Ratio Lower Upper  
 114 100  
 63 27.1 19.1 28.7  
 88 19.2 13.9 20.9

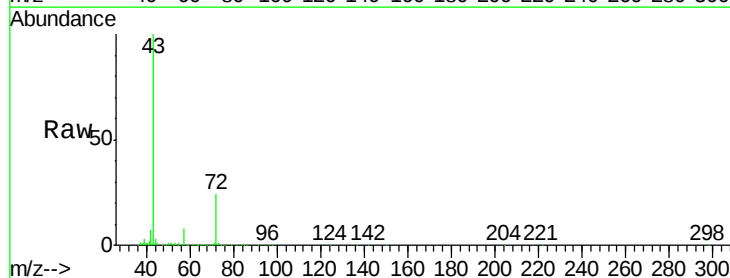


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

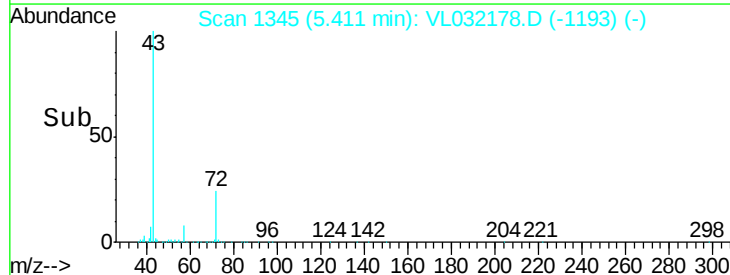
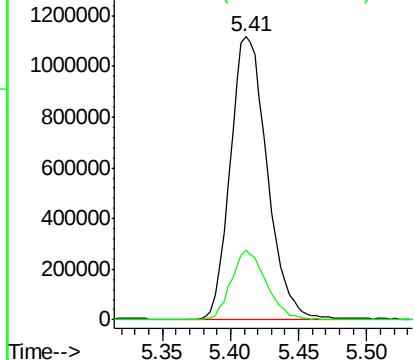


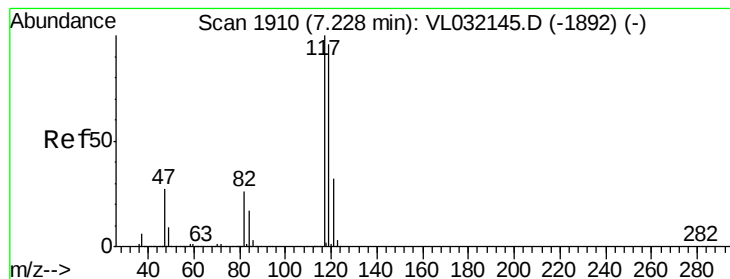
#34  
 2-Butanone  
 Concen: 8.570 ppbv  
 RT: 5.41 min Scan# 1345  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion: 43 Resp: 2089449  
 Ion Ratio Lower Upper  
 43 100  
 72 23.7 18.4 27.6



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





#35

Carbon Tetrachloride

Concen: 9.388 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

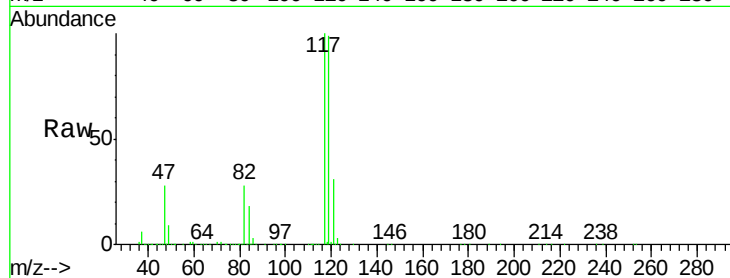
Tgt Ion:117 Resp: 2468378

Ion Ratio Lower Upper

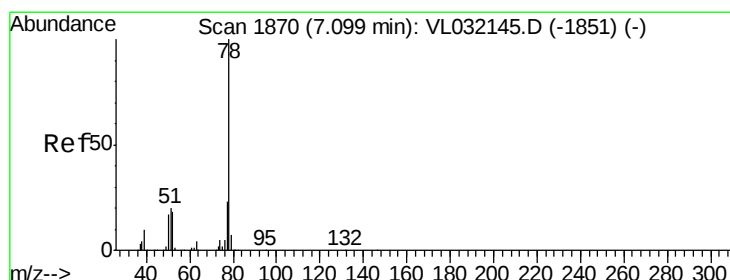
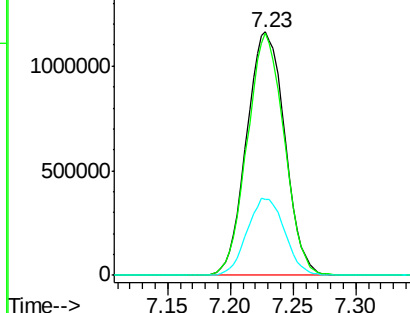
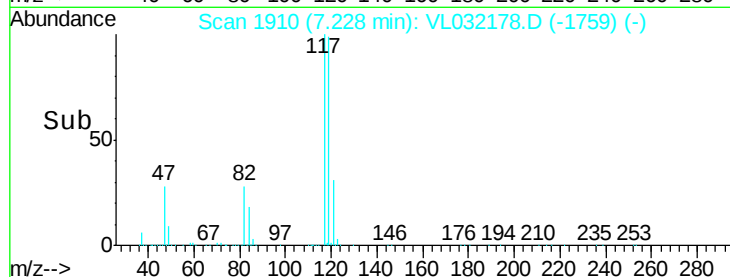
117 100

119 99.4 74.8 112.2

121 31.3 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.519 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

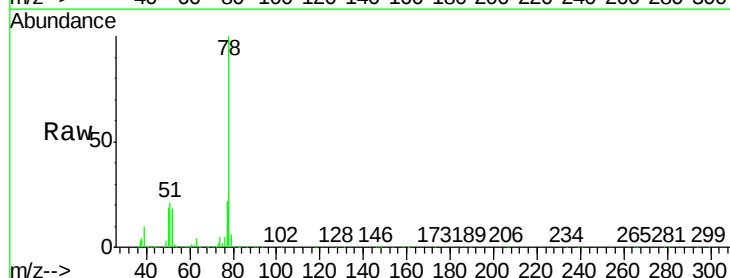
Tgt Ion: 78 Resp: 3539015

Ion Ratio Lower Upper

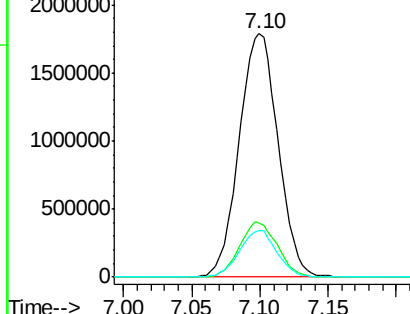
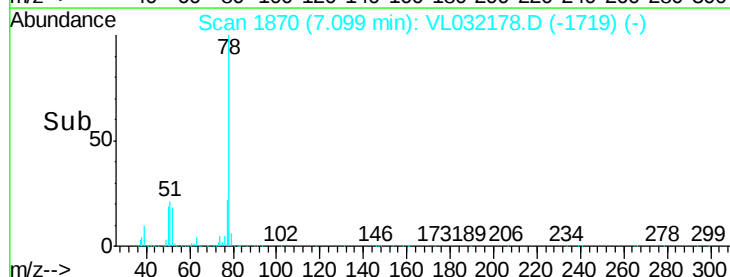
78 100

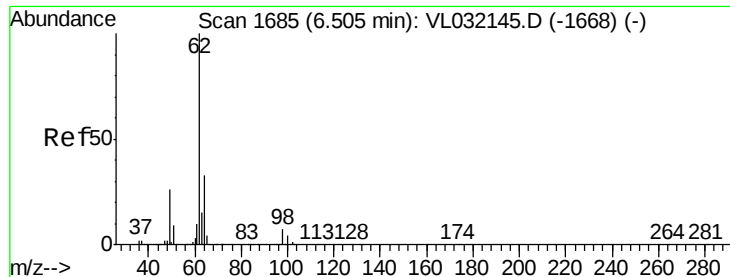
77 22.3 17.7 26.5

50 19.2 14.0 21.0



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

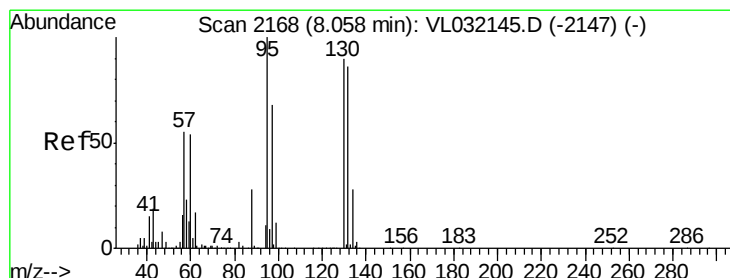
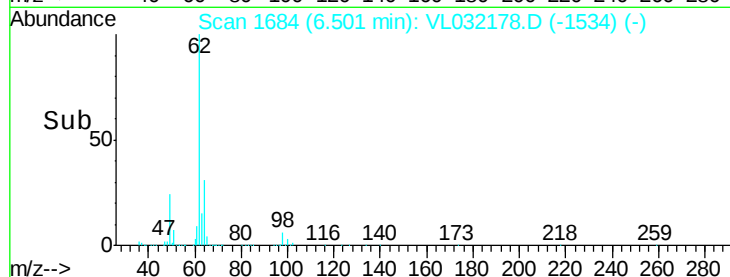
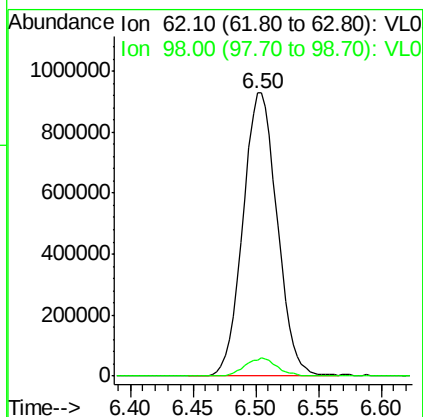
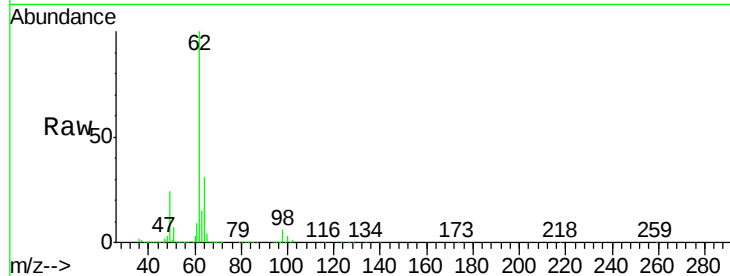




#37  
 1,2-Dichloroethane  
 Concen: 9.497 ppbv  
 RT: 6.50 min Scan# 1684  
 Delta R.T. -0.02 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

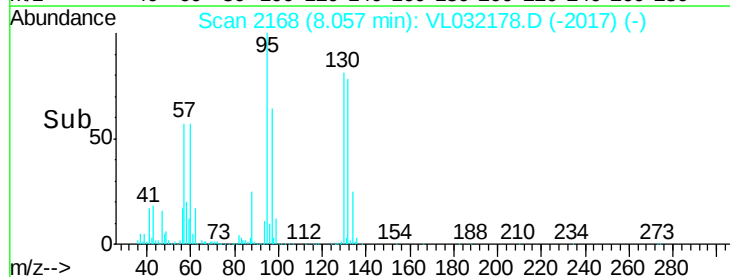
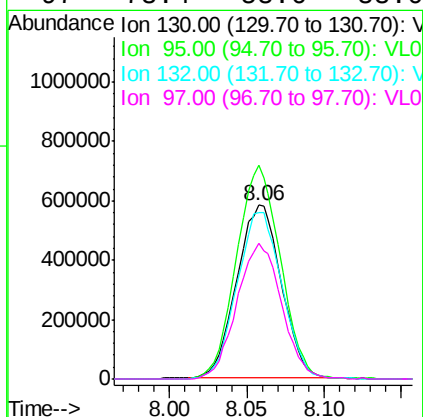
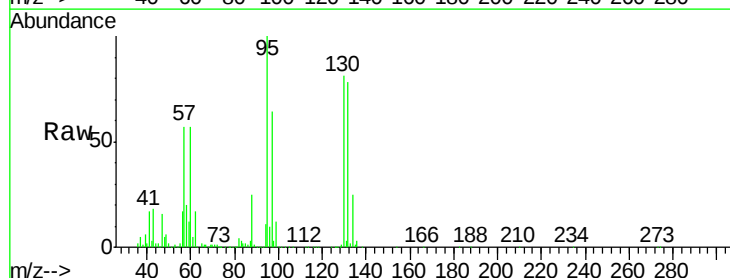
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0702ABS01

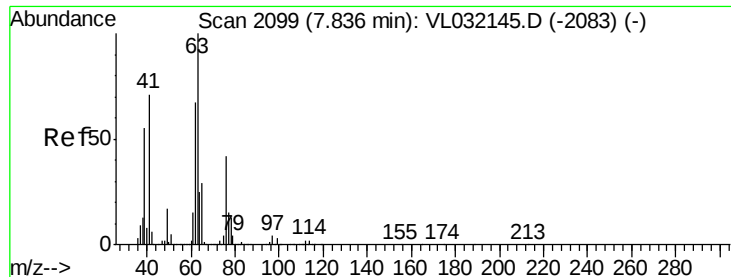
Tgt Ion: 62 Resp: 1759005  
 Ion Ratio Lower Upper  
 62 100  
 98 6.1 5.8 8.6



#38  
 Trichloroethene  
 Concen: 8.047 ppbv  
 RT: 8.06 min Scan# 2168  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion: 130 Resp: 1168678  
 Ion Ratio Lower Upper  
 130 100  
 95 123.2 88.1 132.1  
 132 96.0 74.6 112.0  
 97 78.4 58.6 88.0





#39

1,2-Dichloropropane

Concen: 9.282 ppbv

RT: 7.84 min Scan# 2099

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

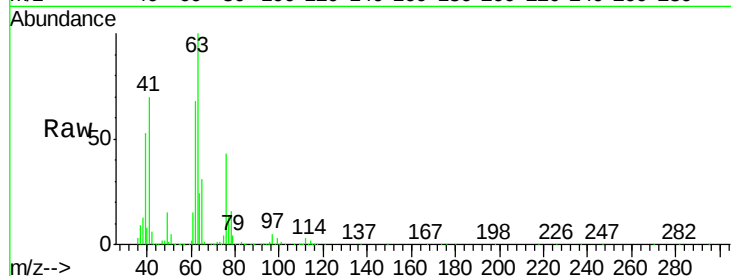
Tgt Ion: 63 Resp: 1360933

Ion Ratio Lower Upper

63 100

41 70.4 53.3 79.9

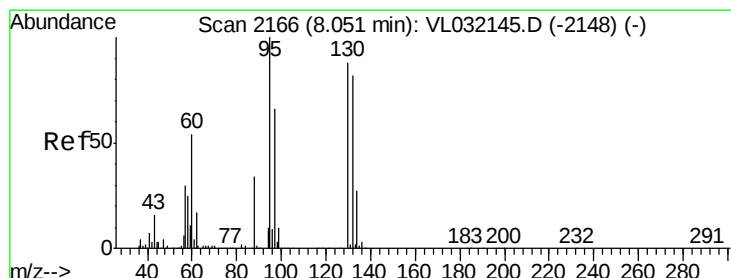
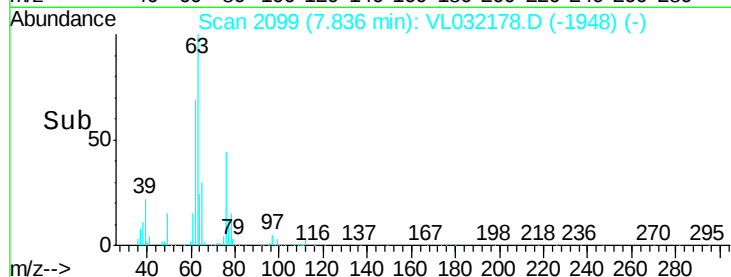
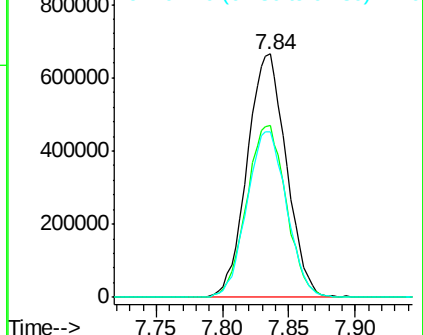
62 67.9 54.8 82.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 7.821 ppbv

RT: 8.05 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion: 88 Resp: 449686

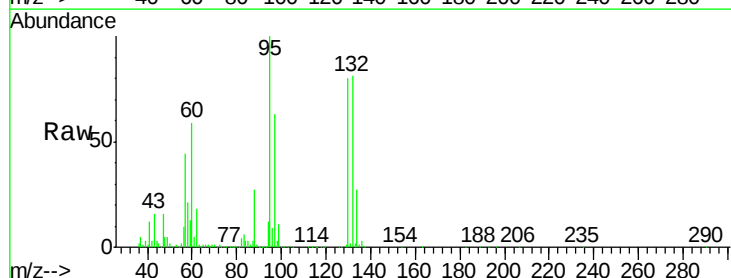
Ion Ratio Lower Upper

88 100

58 138.5 47.4 71.0#

43 278.1 0.0 0.0#

57 1285.5 0.0 0.0#

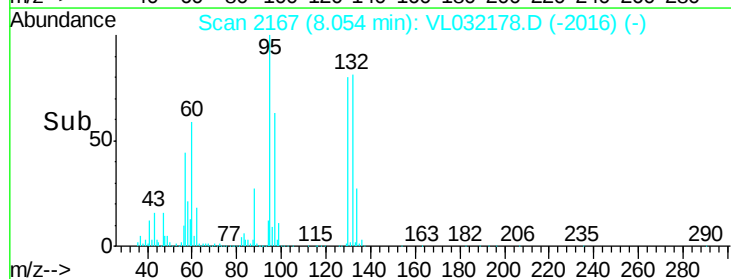
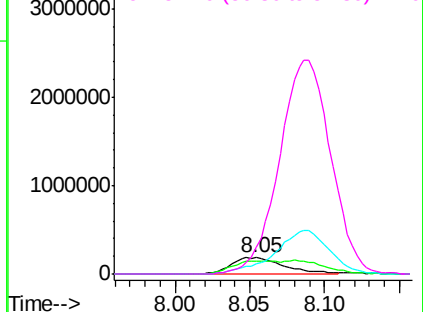


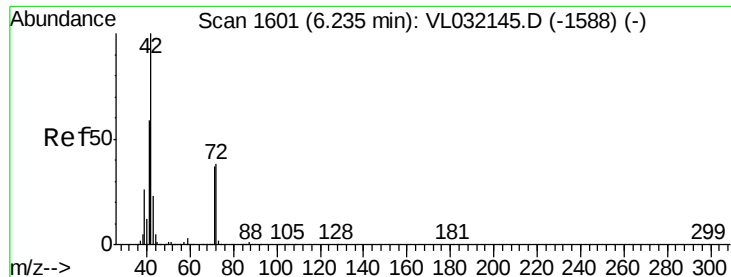
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 8.540 ppbv

RT: 6.24 min Scan# 1602

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

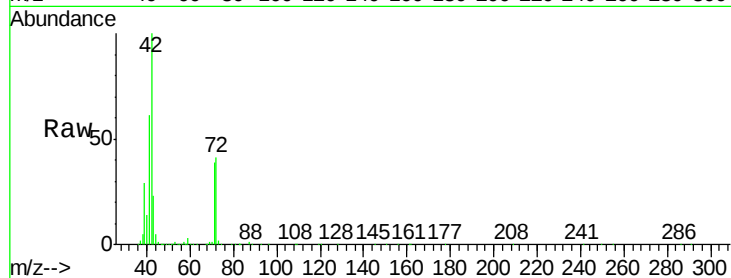
Tgt Ion: 42 Resp: 1248052

Ion Ratio Lower Upper

42 100

72 41.0 31.1 46.7

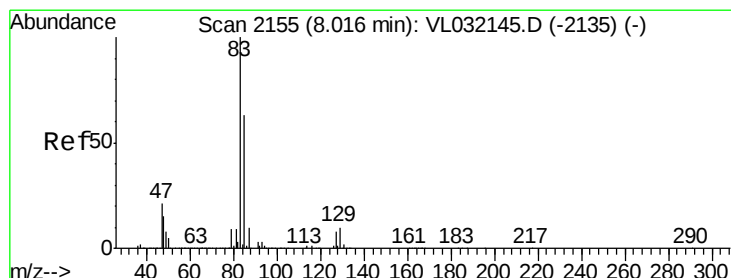
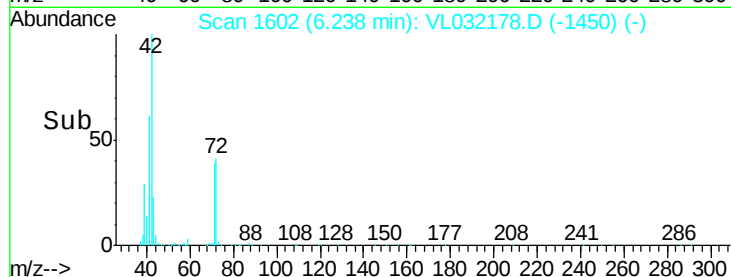
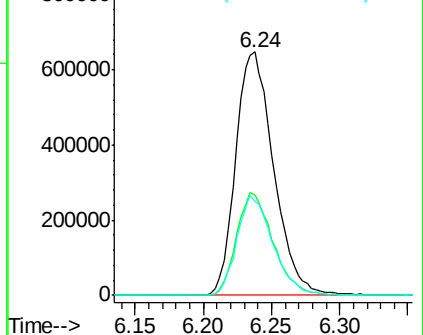
71 39.3 29.5 44.3



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.492 ppbv

RT: 8.02 min Scan# 2155

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

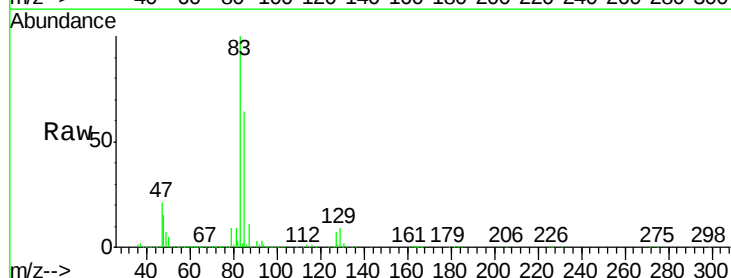
Tgt Ion: 83 Resp: 2755652

Ion Ratio Lower Upper

83 100

85 63.6 52.6 79.0

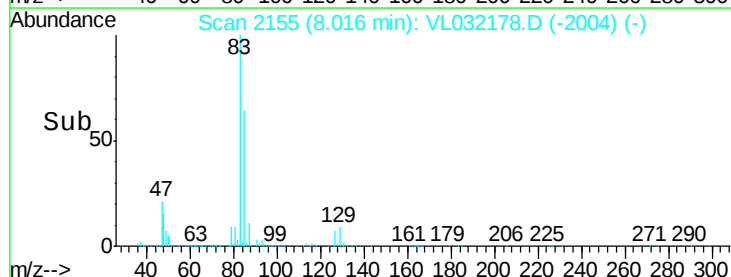
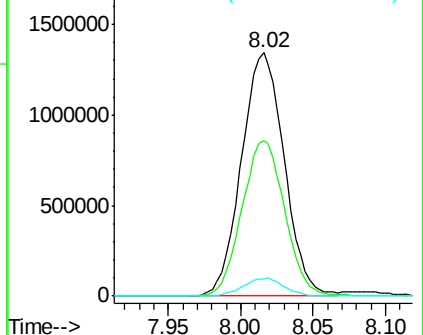
127 7.2 6.5 9.7

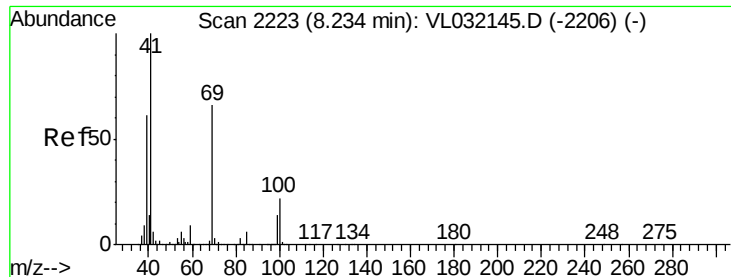


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

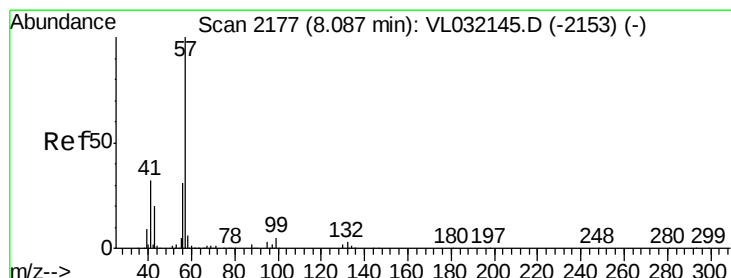
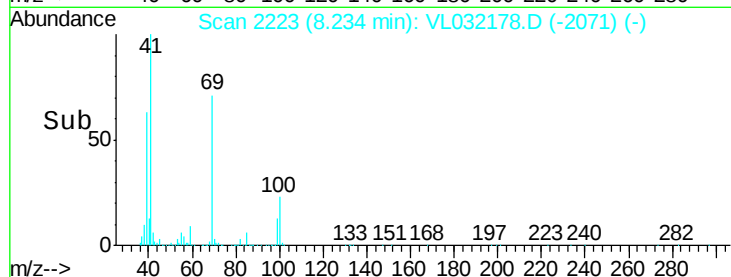
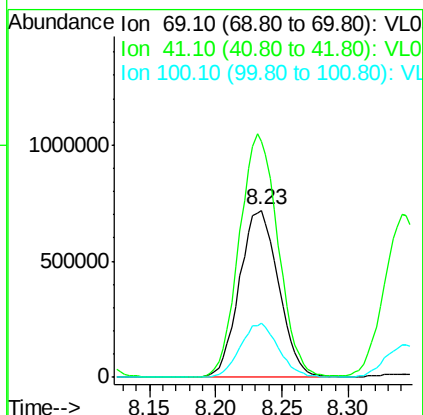
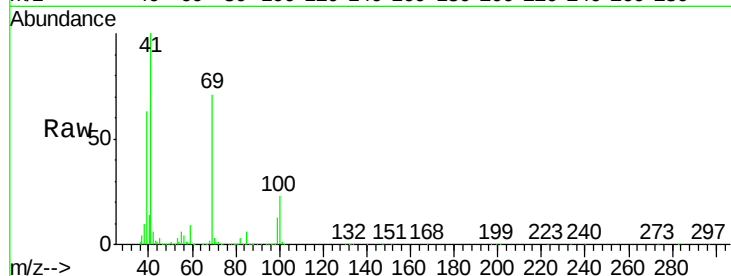




#43  
Methyl Methacrylate  
Concen: 9.607 ppbv  
RT: 8.23 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

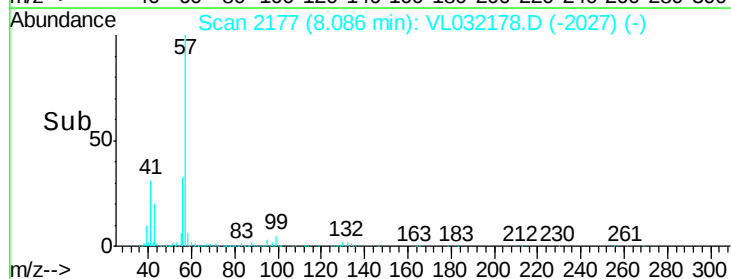
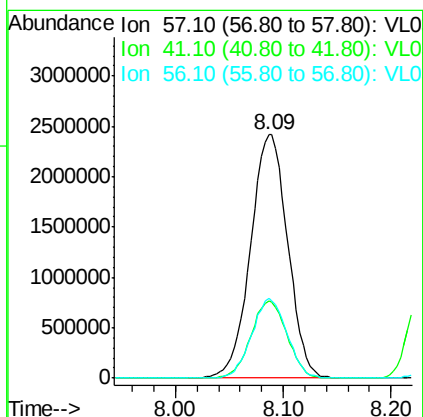
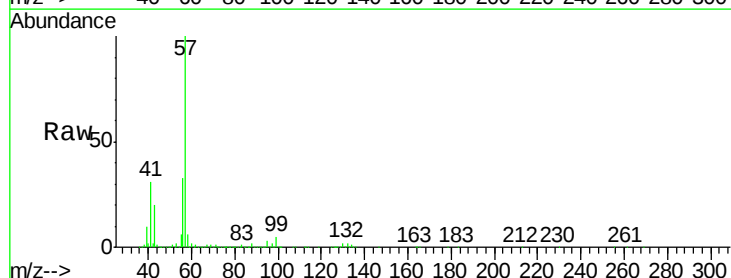
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0702ABS01

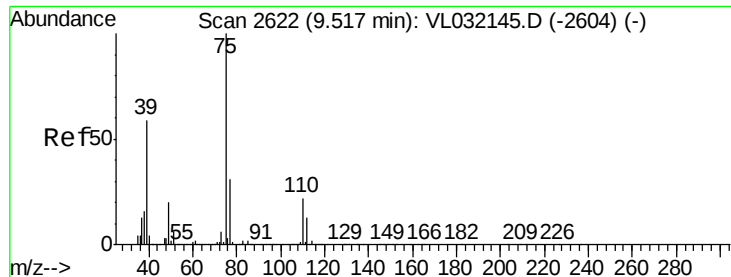
Tgt Ion: 69 Resp: 1480499  
Ion Ratio Lower Upper  
69 100  
41 143.8 118.2 177.4  
100 31.7 27.4 41.2



#44  
2,2,4-Trimethylpentane  
Concen: 8.868 ppbv  
RT: 8.09 min Scan# 2177  
Delta R.T. -0.02 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

Tgt Ion: 57 Resp: 5768761  
Ion Ratio Lower Upper  
57 100  
41 30.8 24.3 36.5  
56 31.3 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 9.343 ppbv

RT: 9.51 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

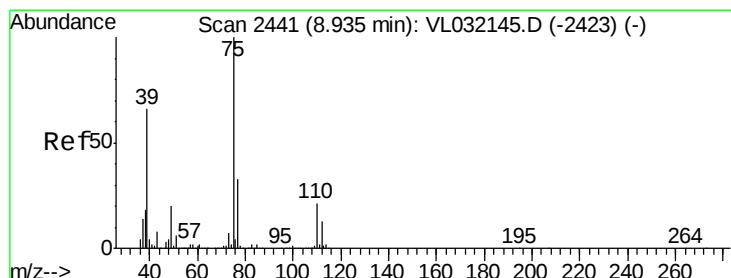
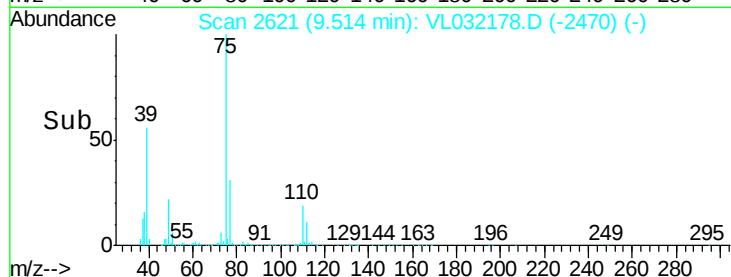
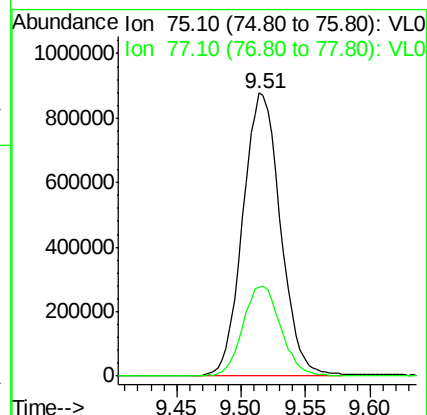
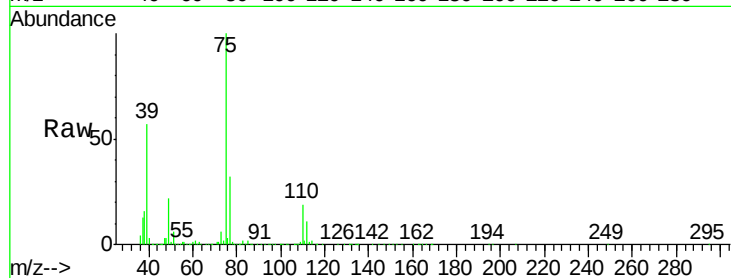
VL0702ABS01

Tgt Ion: 75 Resp: 1783991

Ion Ratio Lower Upper

75 100

77 31.5 25.6 38.4



#46

cis-1,3-Dichloropropene

Concen: 9.244 ppbv

RT: 8.94 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

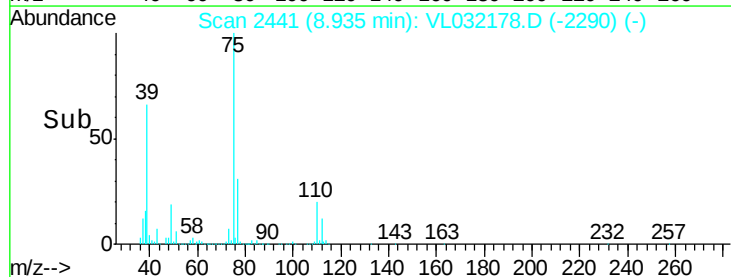
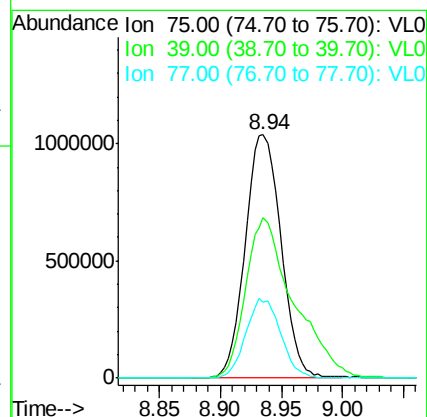
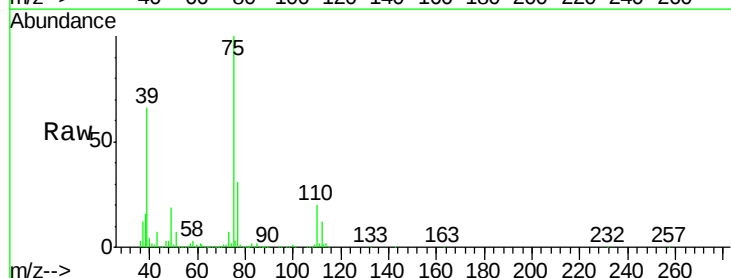
Tgt Ion: 75 Resp: 2107521

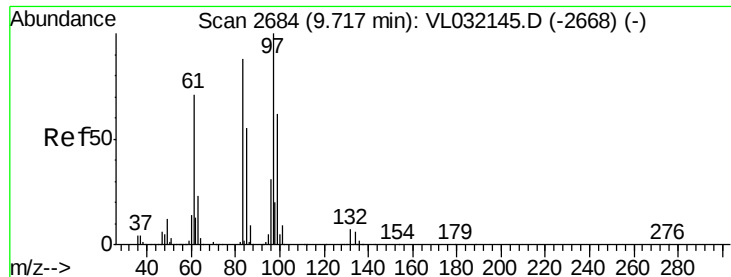
Ion Ratio Lower Upper

75 100

39 65.7 51.9 77.9

77 31.3 24.3 36.5

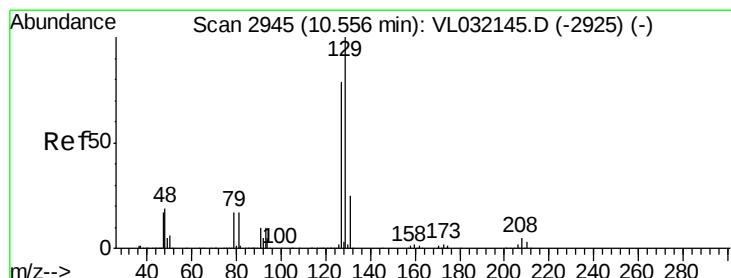
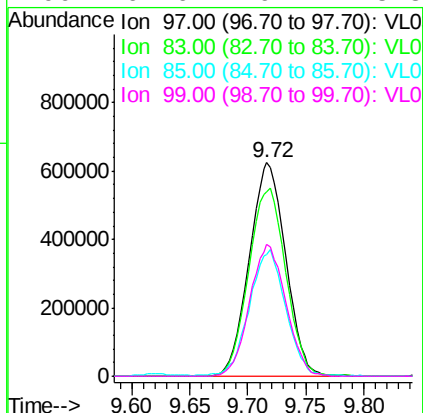
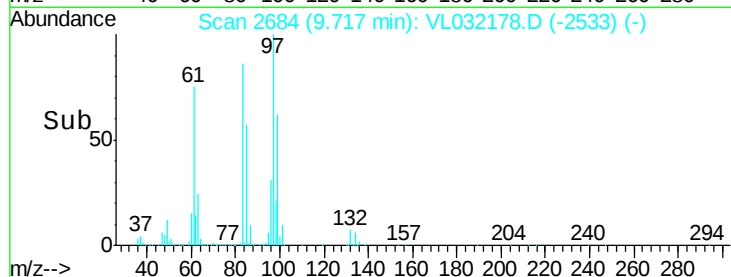
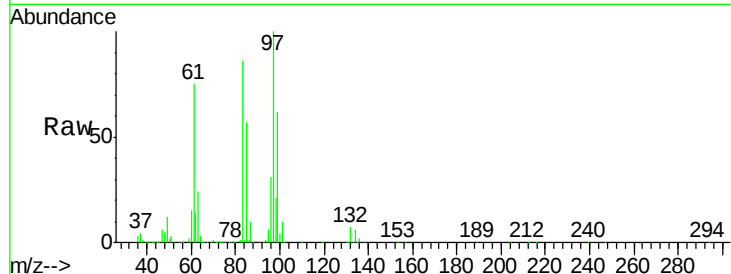




#47  
 1,1,2-Trichloroethane  
 Concen: 8.956 ppbv  
 RT: 9.72 min Scan# 2684  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

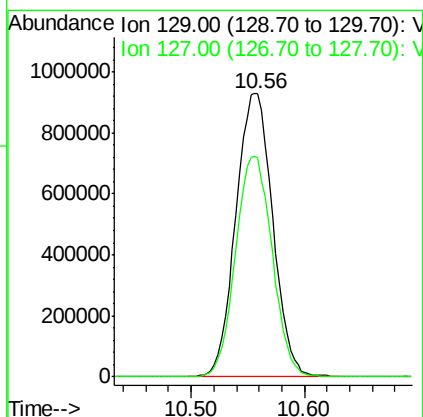
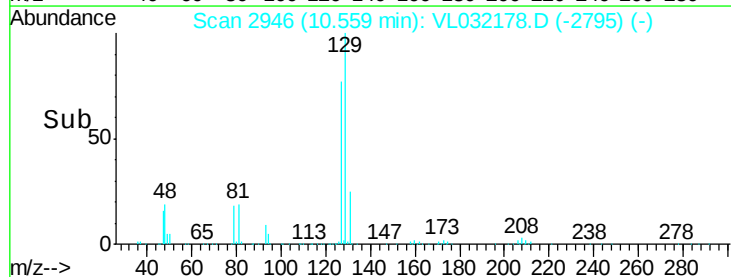
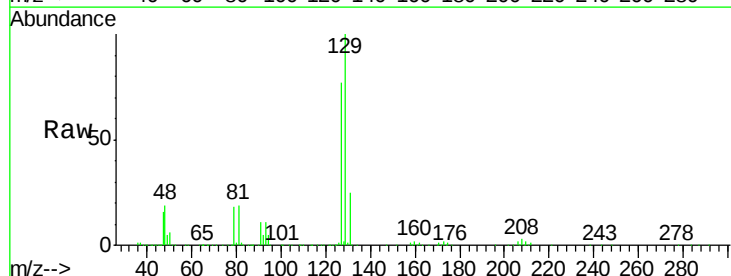
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

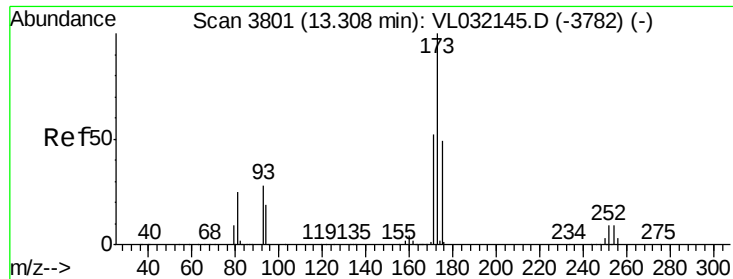
Tgt Ion: 97 Resp: 1364876  
 Ion Ratio Lower Upper  
 97 100  
 83 86.3 71.0 106.4  
 85 56.6 44.2 66.4  
 99 61.6 49.2 73.8



#48  
 Dibromochloromethane  
 Concen: 8.941 ppbv  
 RT: 10.56 min Scan# 2946  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion: 129 Resp: 2109435  
 Ion Ratio Lower Upper  
 129 100  
 127 77.5 39.1 117.5





#49

Bromoform

Concen: 8.726 ppbv

RT: 13.31 min Scan# 3801

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

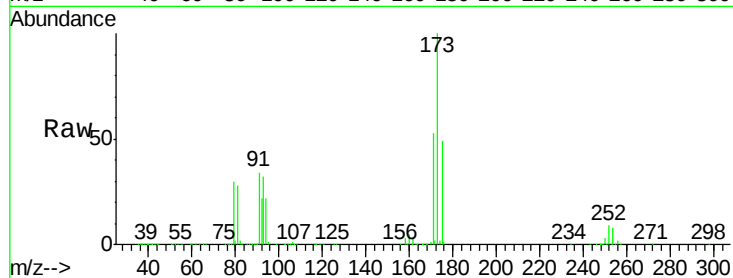
Tgt Ion:173 Resp: 1724053

Ion Ratio Lower Upper

173 100

175 48.7 39.4 59.0

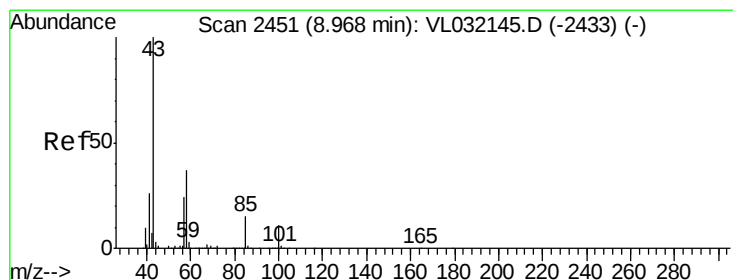
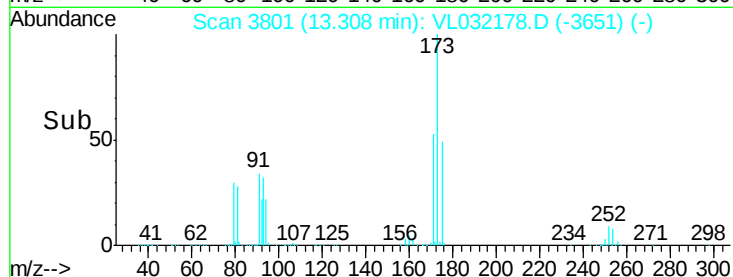
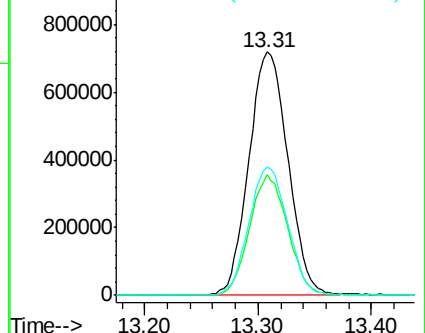
171 52.6 41.8 62.8



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: 8.846 ppbv

RT: 8.97 min Scan# 2451

Delta R.T. -0.02 min

Lab File: VL032178.D

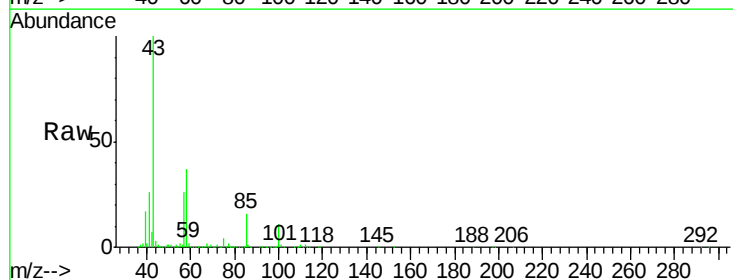
Acq: 2 Jul 2018 12:26

Tgt Ion: 43 Resp: 3532681

Ion Ratio Lower Upper

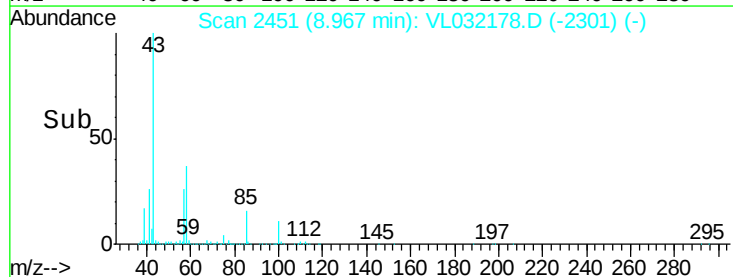
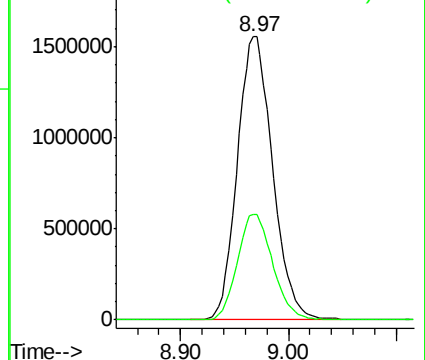
43 100

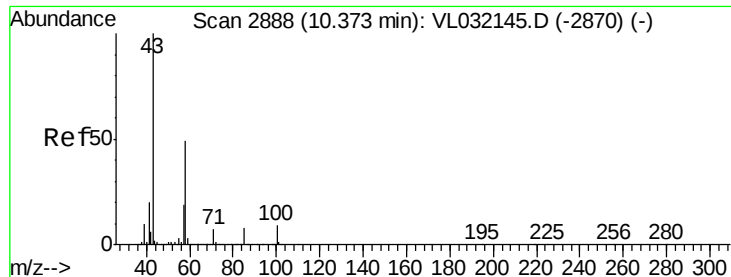
58 37.5 29.8 44.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.059 ppbv

RT: 10.37 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

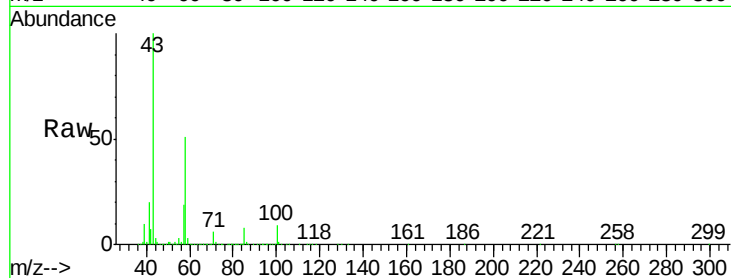
Tgt Ion: 43 Resp: 2999267

Ion Ratio Lower Upper

43 100

58 50.7 40.6 60.8

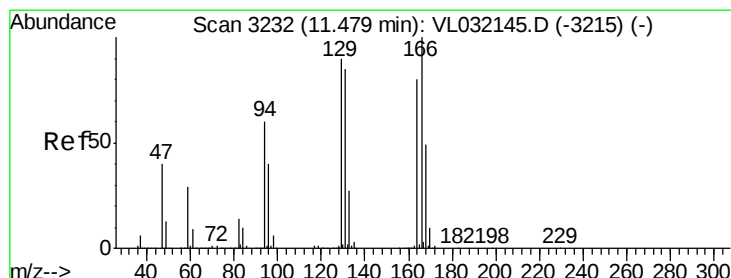
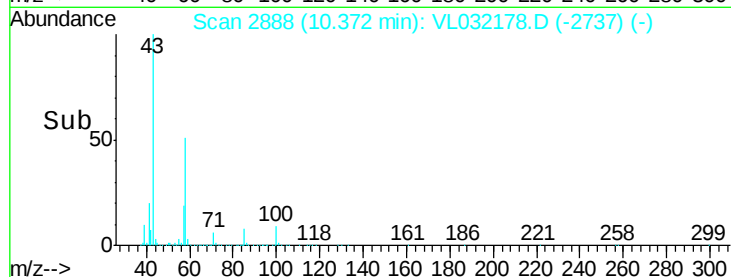
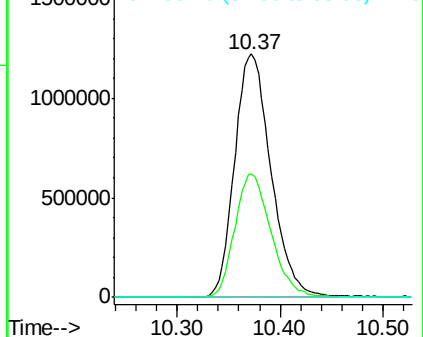
98 0.1 0.1 0.1



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: 7.686 ppbv

RT: 11.48 min Scan# 3232

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion: 164 Resp: 1039097

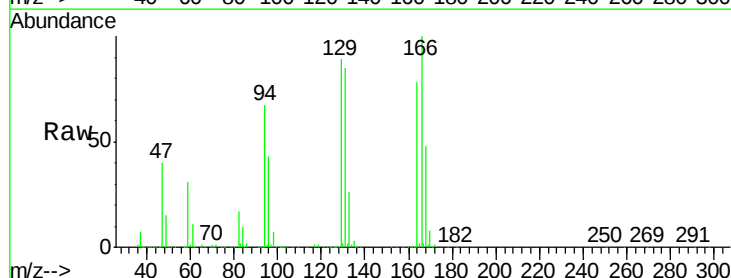
Ion Ratio Lower Upper

164 100

166 128.1 100.6 151.0

129 113.9 84.0 126.0

131 108.9 82.7 124.1

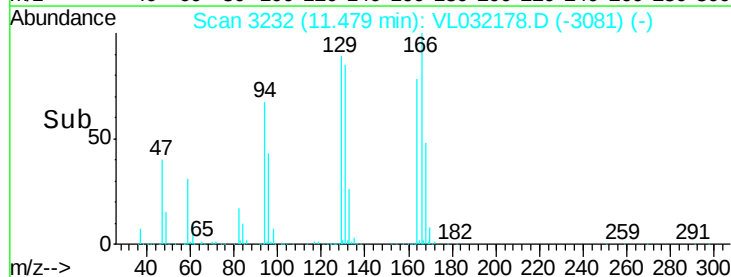
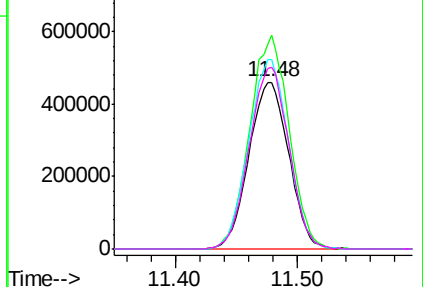


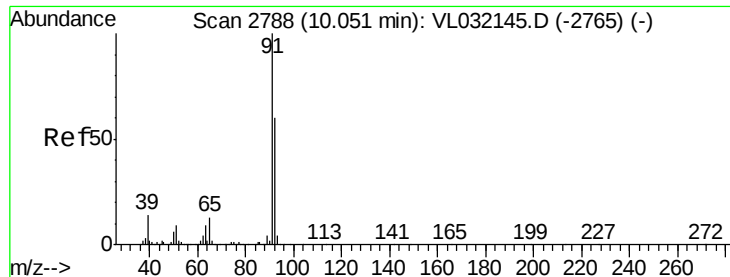
Abundance Ion 163.90 (163.60 to 164.60): V

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: 8.675 ppbv

RT: 10.05 min Scan# 2788

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

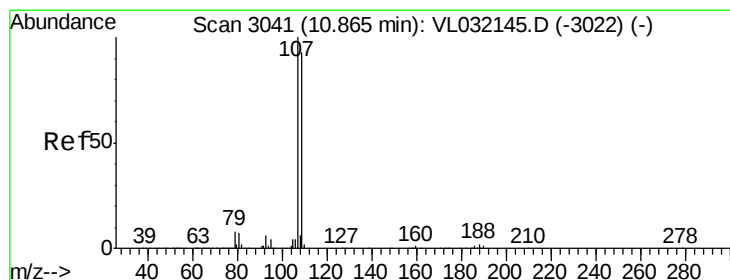
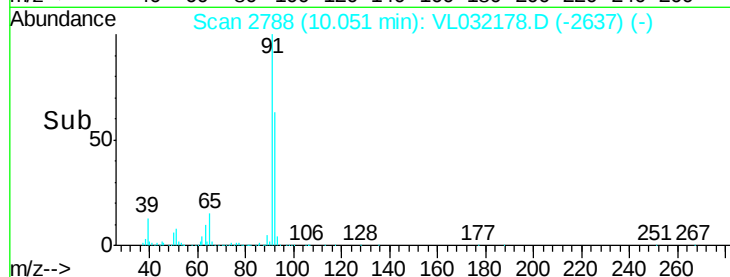
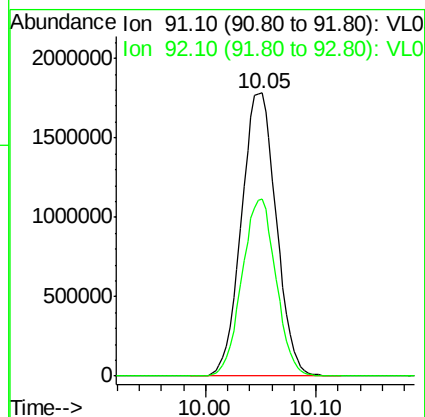
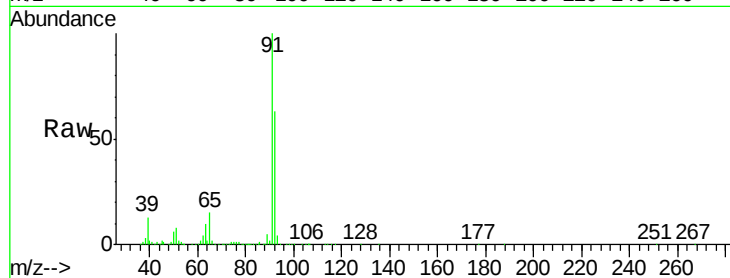
VL0702ABS01

Tgt Ion: 91 Resp: 3898000

Ion Ratio Lower Upper

91 100

92 61.3 49.2 73.8



#54

1,2-Dibromoethane

Concen: 8.794 ppbv

RT: 10.87 min Scan# 3042

Delta R.T. -0.01 min

Lab File: VL032178.D

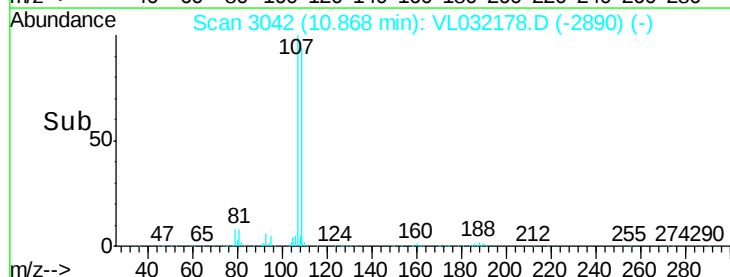
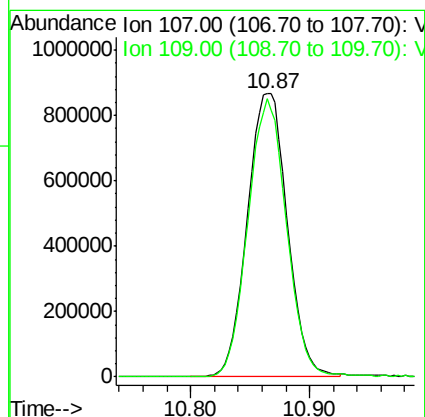
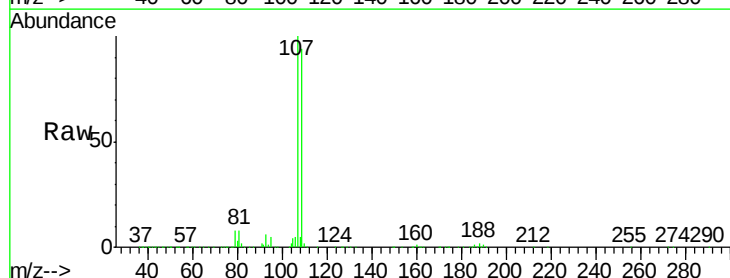
Acq: 2 Jul 2018 12:26

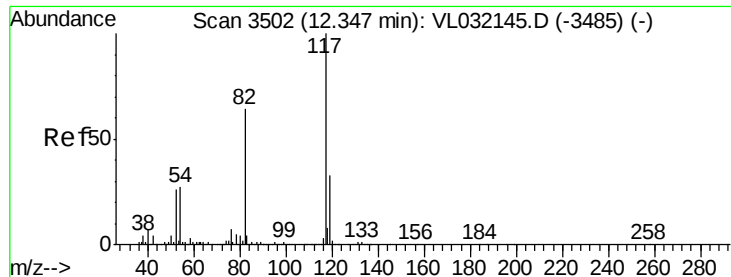
Tgt Ion: 107 Resp: 2014821

Ion Ratio Lower Upper

107 100

109 94.5 75.0 112.4

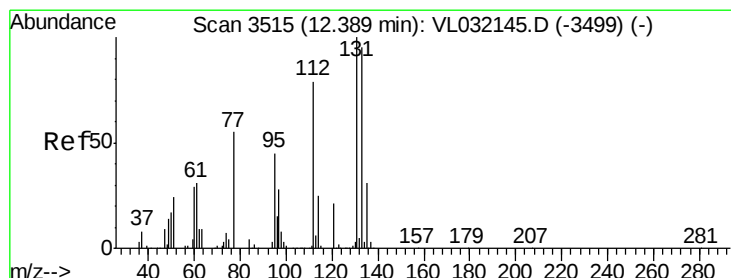
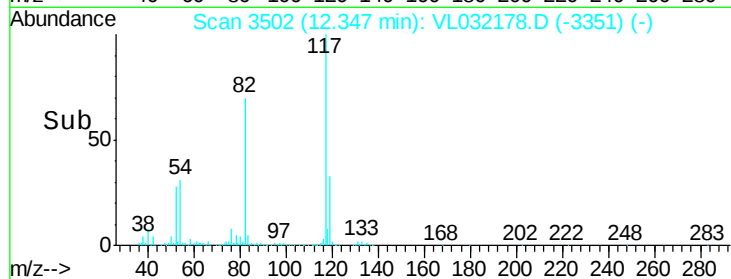
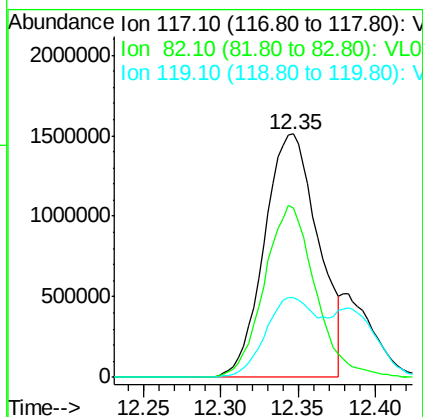
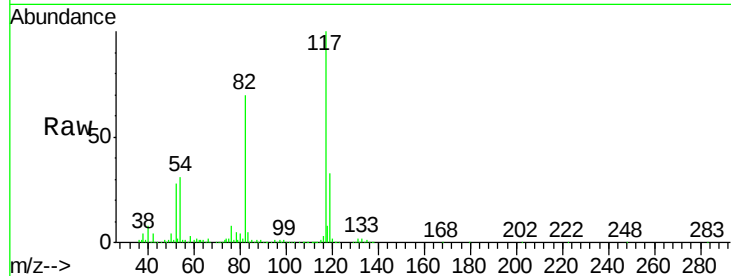




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.35 min Scan# 3502  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

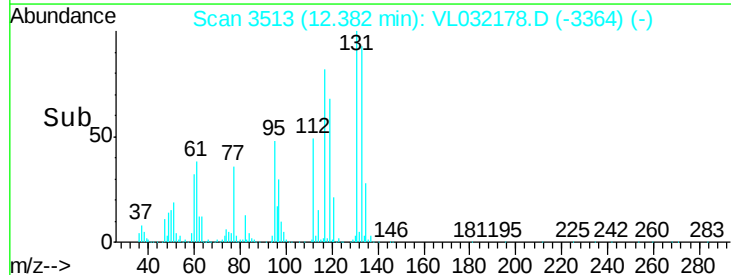
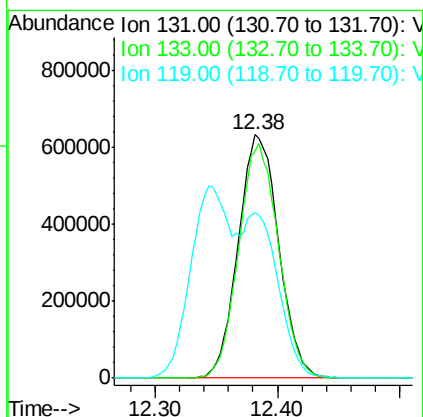
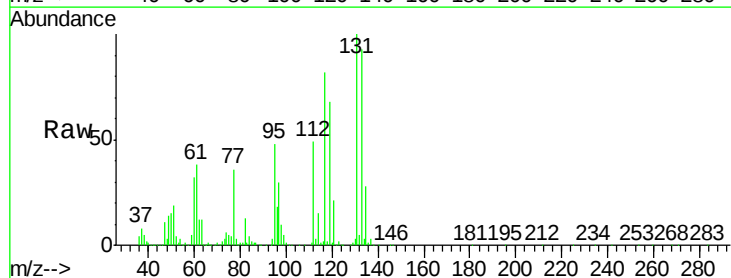
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0702ABS01

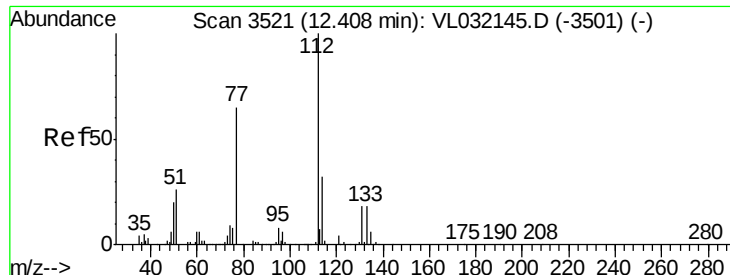
Tgt Ion:117 Resp: 3664626  
Ion Ratio Lower Upper  
117 100  
82 67.3 47.8 71.8  
119 31.1 43.3 64.9#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.828 ppbv  
RT: 12.38 min Scan# 3513  
Delta R.T. -0.02 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

Tgt Ion:131 Resp: 1444490  
Ion Ratio Lower Upper  
131 100  
133 95.4 75.5 113.3  
119 141.7 118.4 177.6





#57

Chlorobenzene

Concen: 8.898 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

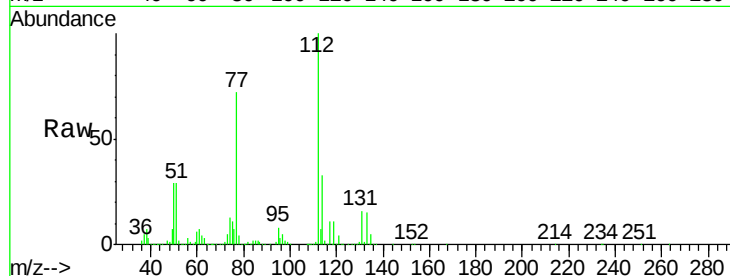
Tgt Ion: 112 Resp: 2823864

Ion Ratio Lower Upper

112 100

77 71.8 52.6 78.8

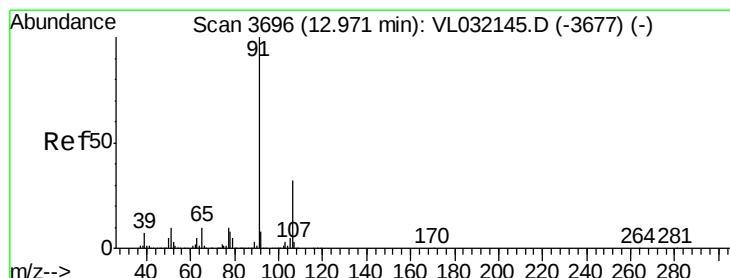
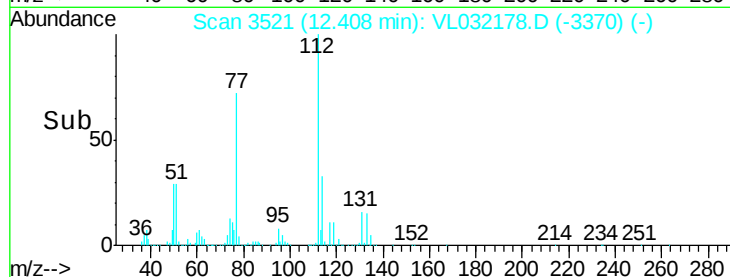
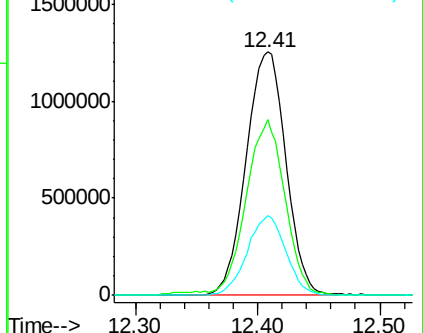
114 32.6 27.9 34.1



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: 9.011 ppbv

RT: 12.97 min Scan# 3695

Delta R.T. -0.02 min

Lab File: VL032178.D

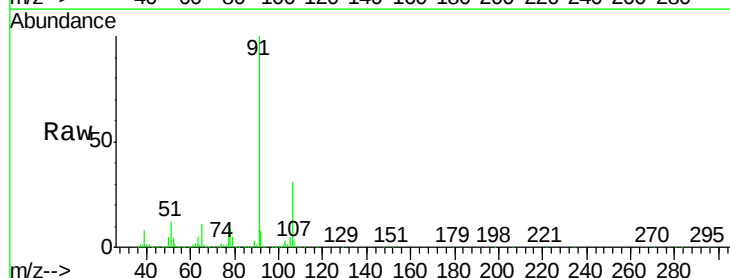
Acq: 2 Jul 2018 12:26

Tgt Ion: 91 Resp: 5321654

Ion Ratio Lower Upper

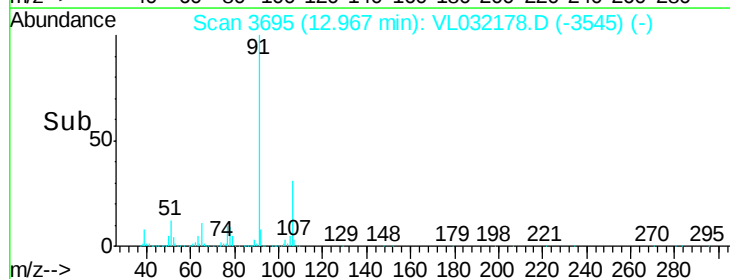
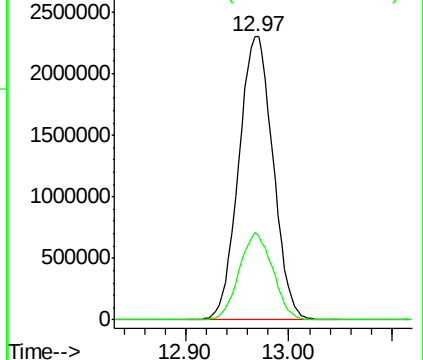
91 100

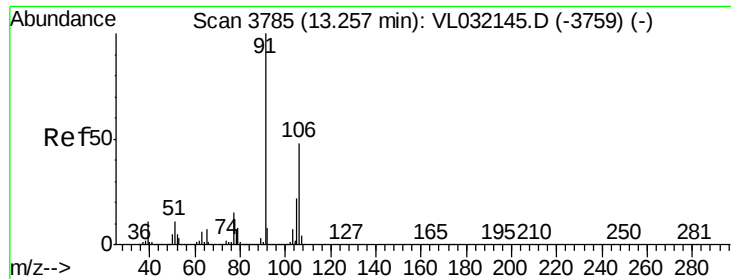
106 30.9 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

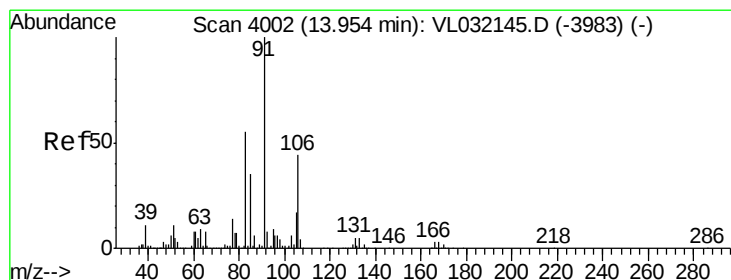
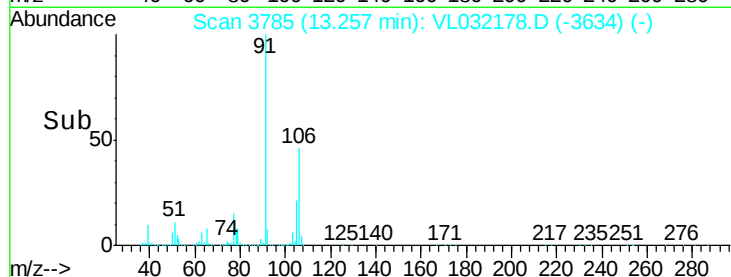
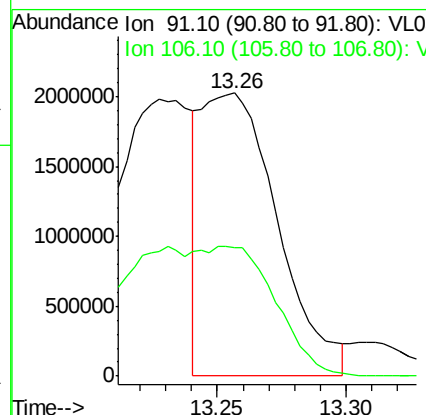
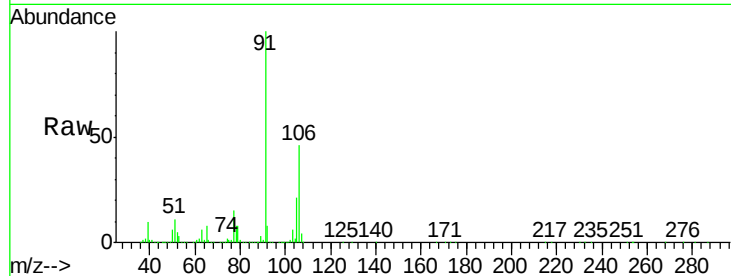




#59  
m/p-Xylene  
Concen: 8.744 ppbv  
RT: 13.26 min Scan# 3785  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

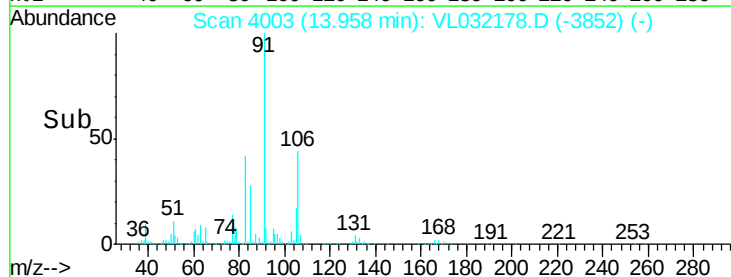
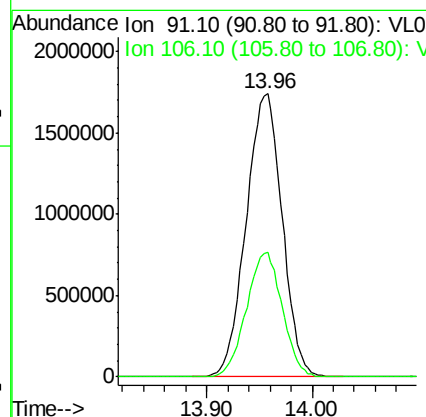
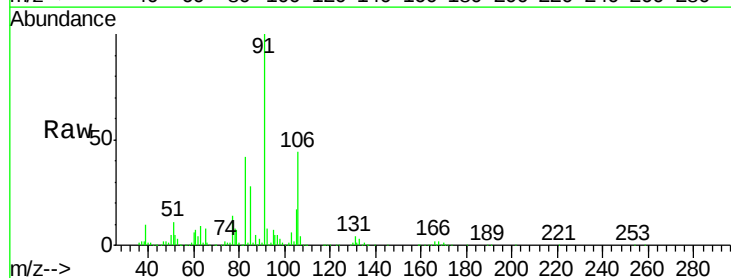
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0702ABS01

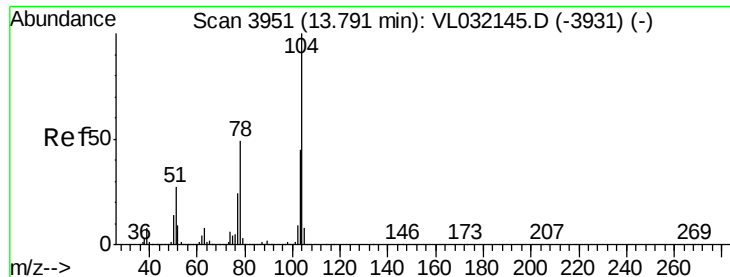
Tgt Ion: 91 Resp: 4139600  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.6 58.0#



#60  
o-Xylene  
Concen: 8.763 ppbv  
RT: 13.96 min Scan# 4003  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

Tgt Ion: 91 Resp: 4137423  
Ion Ratio Lower Upper  
91 100  
106 43.7 23.3 69.8





#61

Styrene

Concen: 8.851 ppbv

RT: 13.79 min Scan# 3951

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

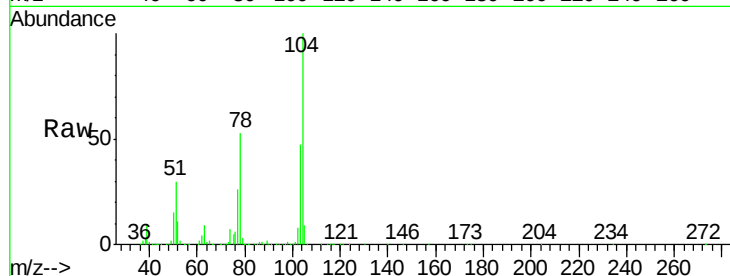
Tgt Ion:104 Resp: 3425034

Ion Ratio Lower Upper

104 100

78 53.0 37.9 56.9

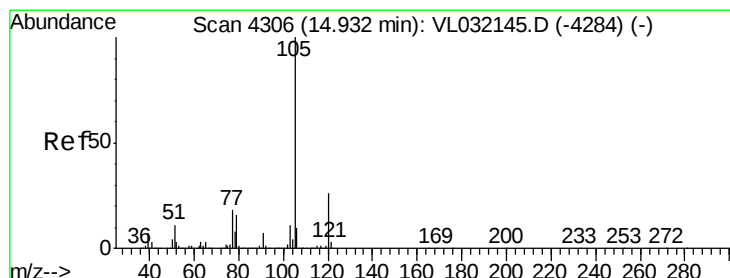
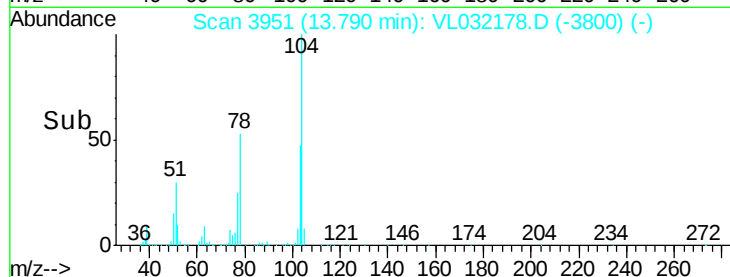
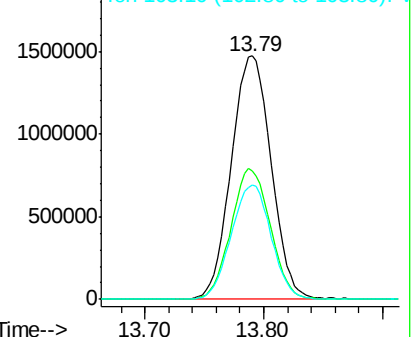
103 47.0 36.6 55.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.200 ppbv

RT: 14.93 min Scan# 4305

Delta R.T. -0.02 min

Lab File: VL032178.D

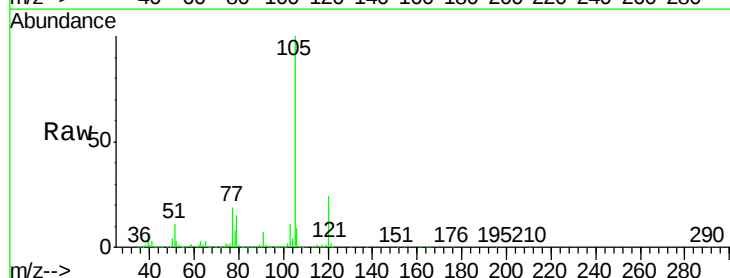
Acq: 2 Jul 2018 12:26

Tgt Ion:105 Resp: 5953171

Ion Ratio Lower Upper

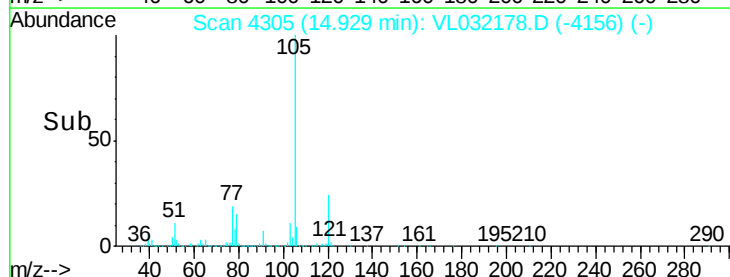
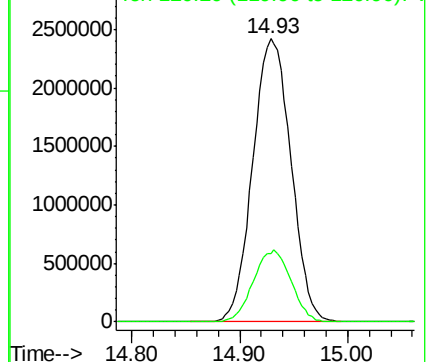
105 100

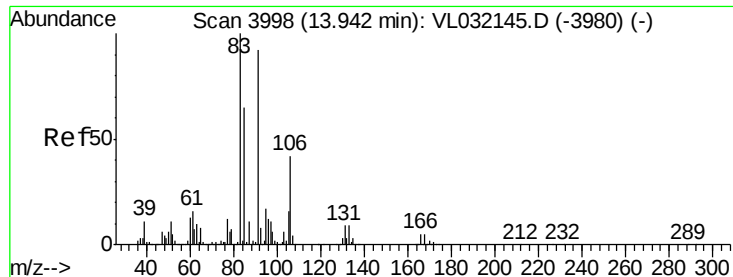
120 25.1 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

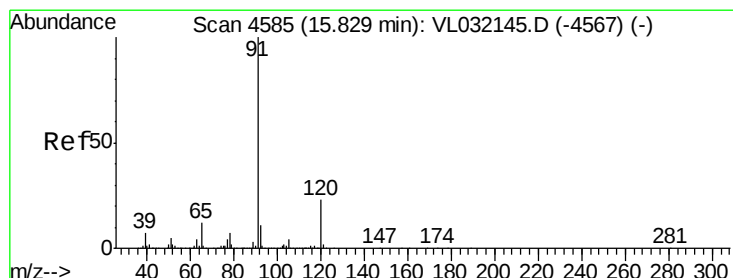
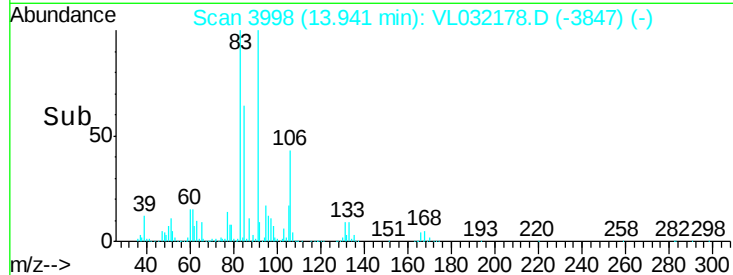
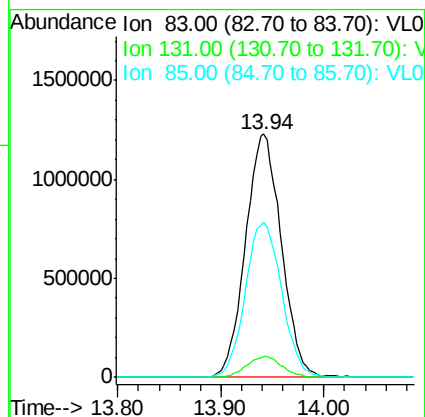
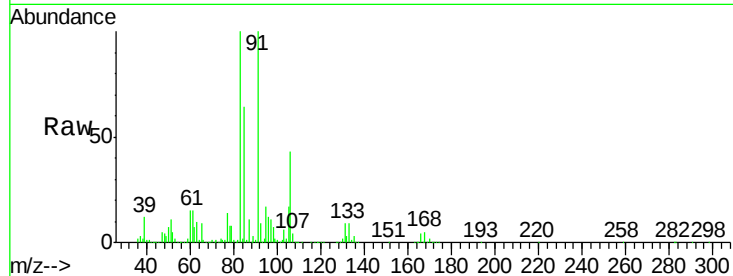




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 8.110 ppbv  
 RT: 13.94 min Scan# 3998  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

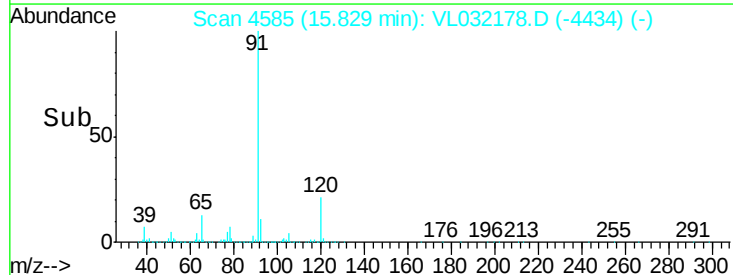
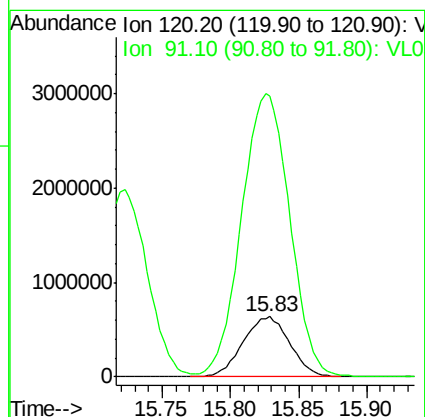
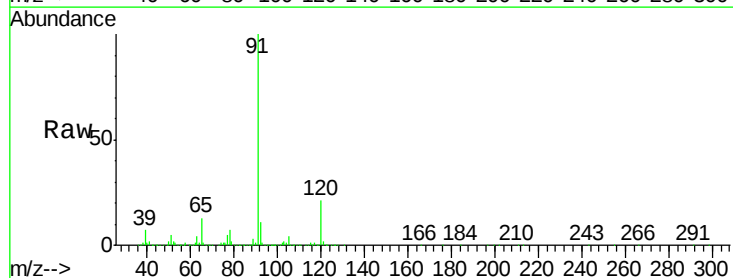
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

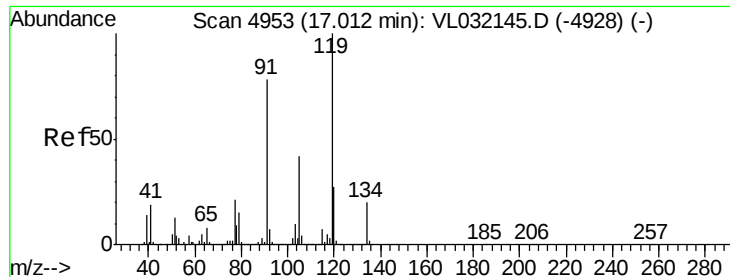
Tgt Ion: 83 Resp: 2965242  
 Ion Ratio Lower Upper  
 83 100  
 131 8.6 4.6 13.8  
 85 64.8 32.4 97.2



#64  
 n-propylbenzene  
 Concen: 8.051 ppbv  
 RT: 15.83 min Scan# 4585  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion: 120 Resp: 1512742  
 Ion Ratio Lower Upper  
 120 100  
 91 487.7 357.4 536.0

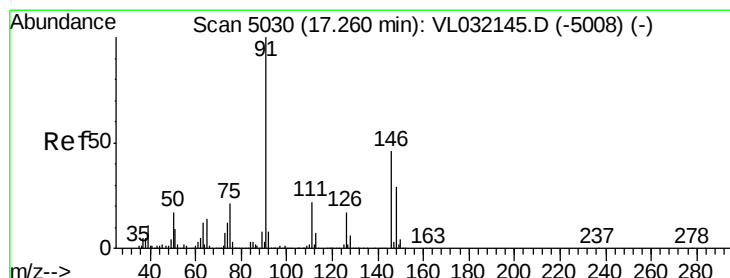
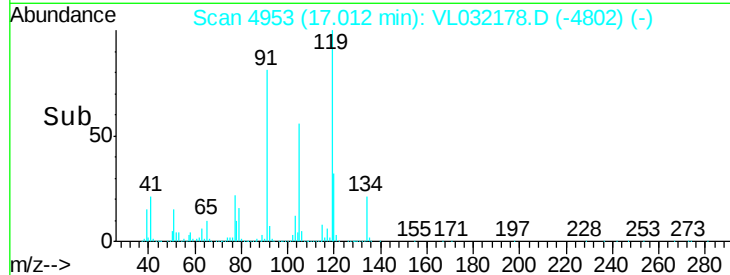
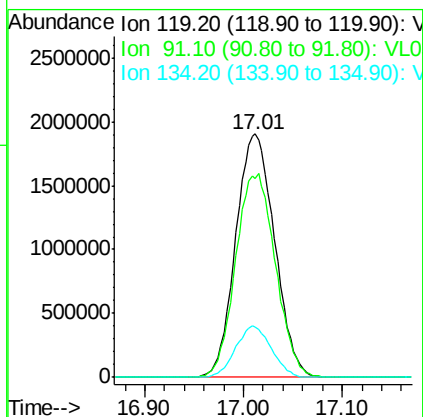
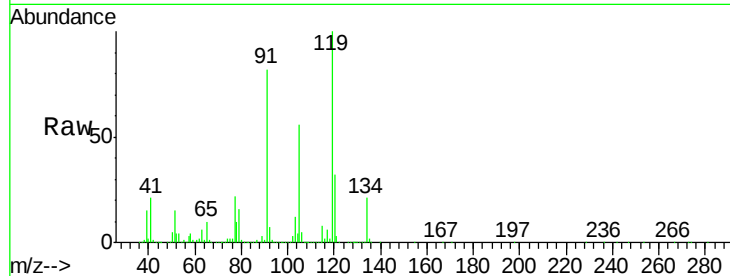




#65  
 tert-Butylbenzene  
 Concen: 8.139 ppbv  
 RT: 17.01 min Scan# 4953  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

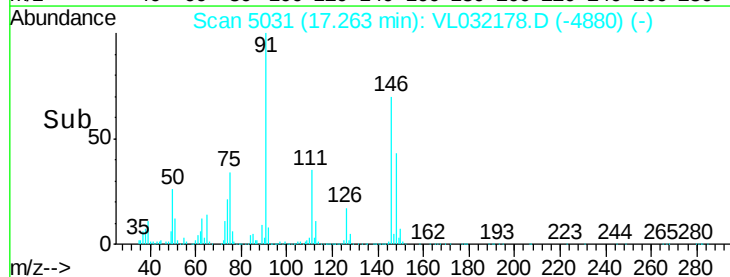
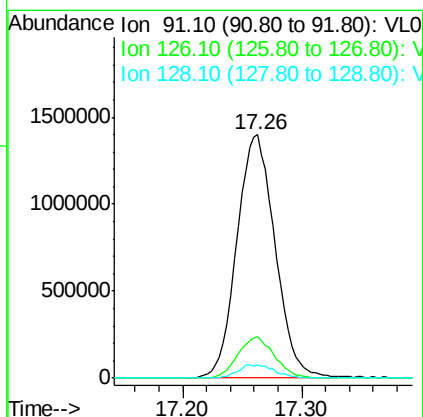
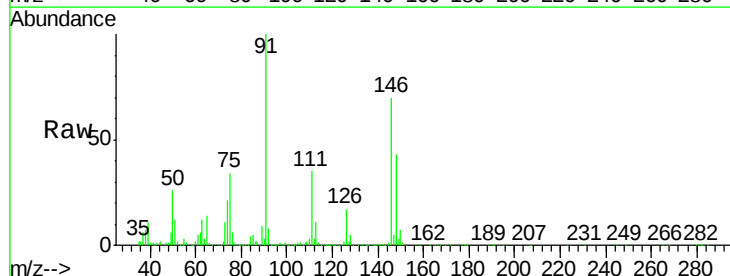
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

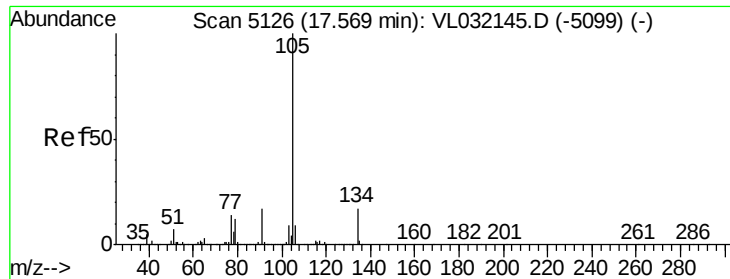
Tgt Ion: 119 Resp: 5192570  
 Ion Ratio Lower Upper  
 119 100  
 91 85.9 62.2 93.2  
 134 19.6 16.2 24.2



#66  
 Benzyl Chloride  
 Concen: 7.898 ppbv  
 RT: 17.26 min Scan# 5031  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion: 91 Resp: 3111833  
 Ion Ratio Lower Upper  
 91 100  
 126 16.5 15.7 23.5  
 128 5.3 5.2 7.8

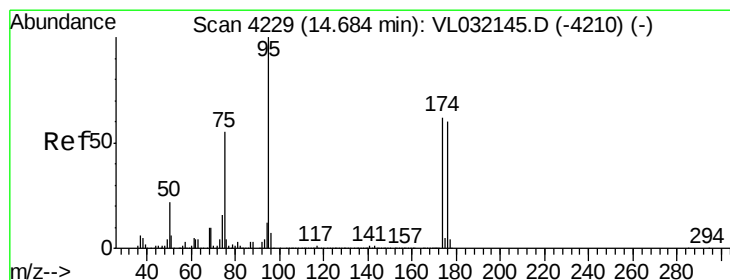
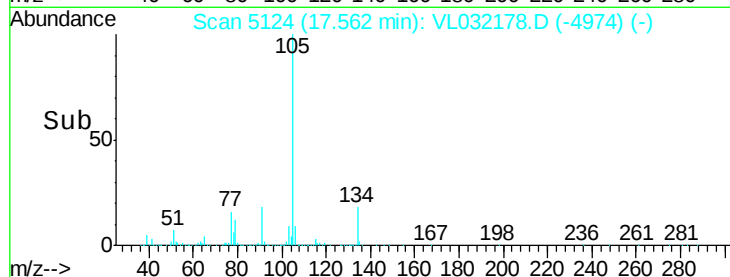
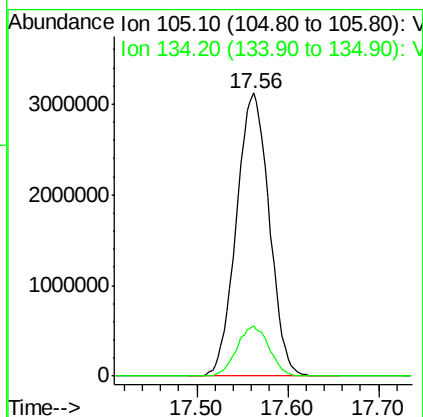
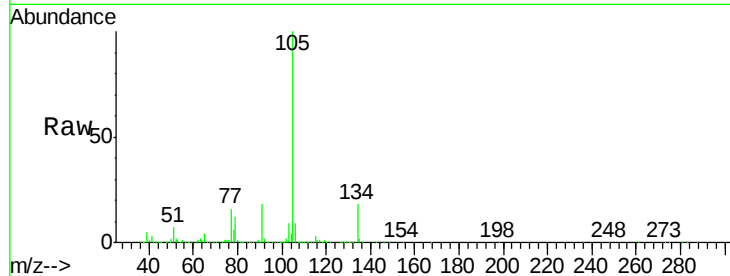




#67  
 sec-Butylbenzene  
 Concen: 8.379 ppbv  
 RT: 17.56 min Scan# 5124  
 Delta R.T. -0.02 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

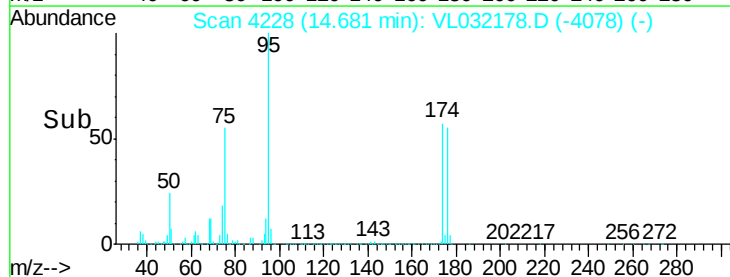
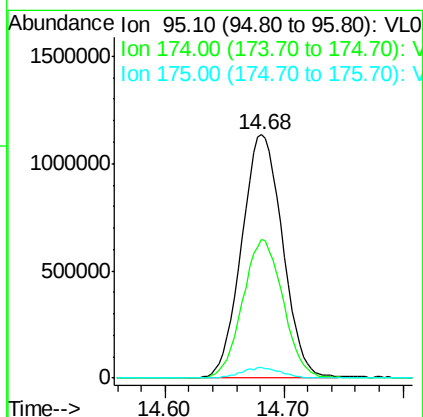
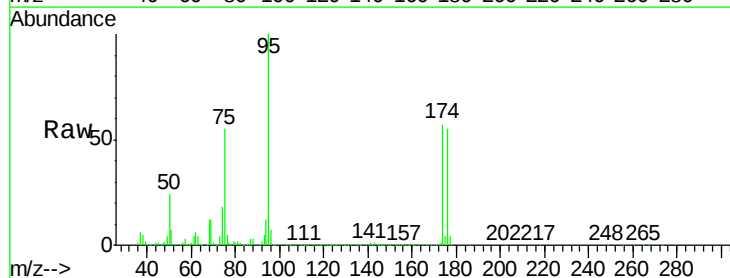
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

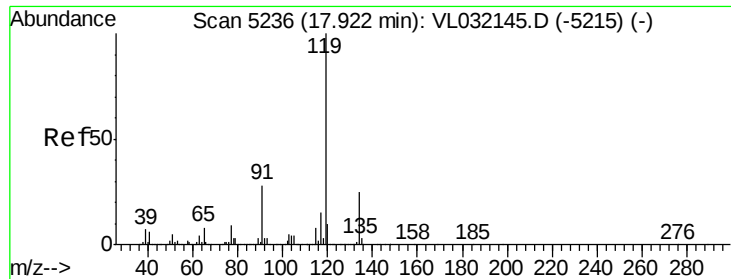
Tgt Ion: 105 Resp: 7827128  
 Ion Ratio Lower Upper  
 105 100  
 134 17.5 14.7 22.1



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.655 ppbv  
 RT: 14.68 min Scan# 4228  
 Delta R.T. -0.02 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion: 95 Resp: 2704645  
 Ion Ratio Lower Upper  
 95 100  
 174 56.4 52.1 78.1  
 175 4.2 4.0 6.0

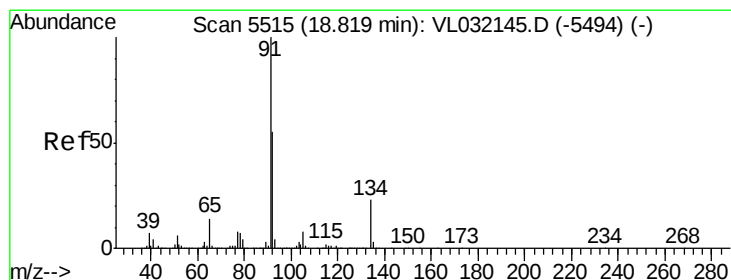
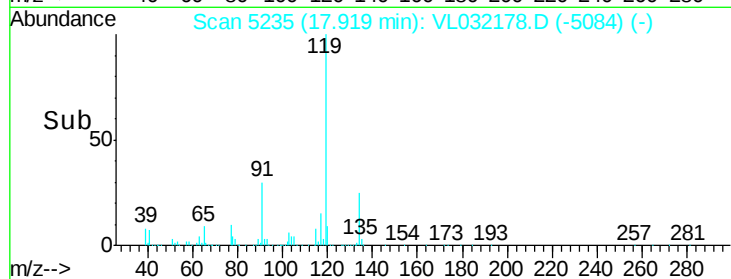
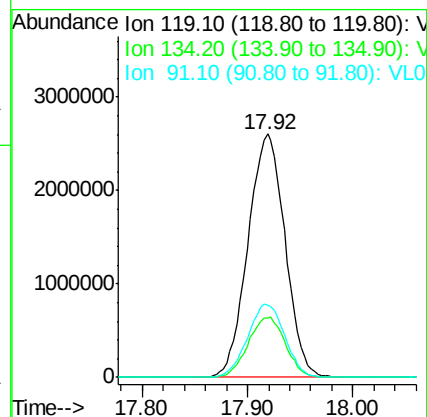
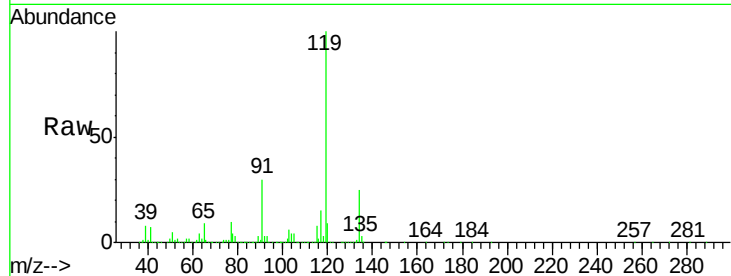




#69  
p-Isopropyltoluene  
Concen: 8.503 ppbv  
RT: 17.92 min Scan# 5235  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

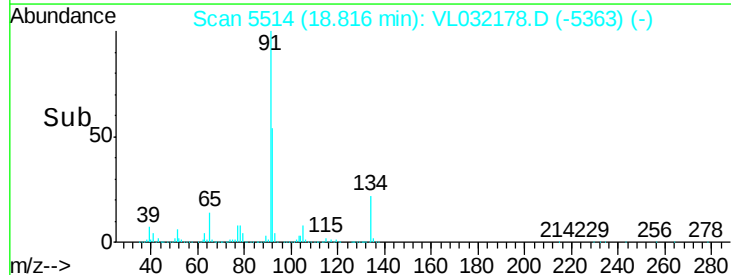
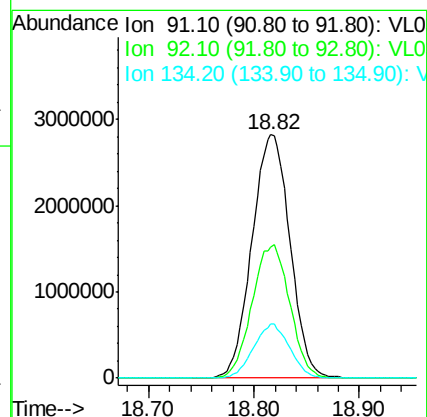
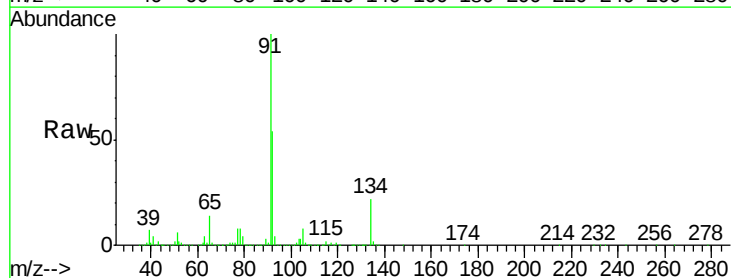
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0702ABS01

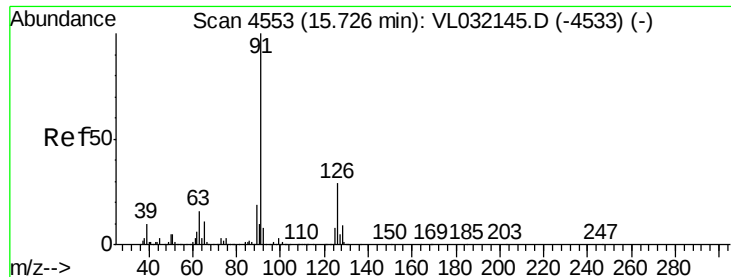
Tgt Ion: 119 Resp: 6371459  
Ion Ratio Lower Upper  
119 100  
134 24.8 20.7 31.1  
91 30.2 21.8 32.8



#70  
n-Butylbenzene  
Concen: 9.047 ppbv  
RT: 18.82 min Scan# 5514  
Delta R.T. -0.01 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

Tgt Ion: 91 Resp: 7078722  
Ion Ratio Lower Upper  
91 100  
92 54.3 43.7 65.5  
134 21.3 18.9 28.3





#71

2-Chlorotoluene

Concen: 8.413 ppbv

RT: 15.72 min Scan# 4552

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

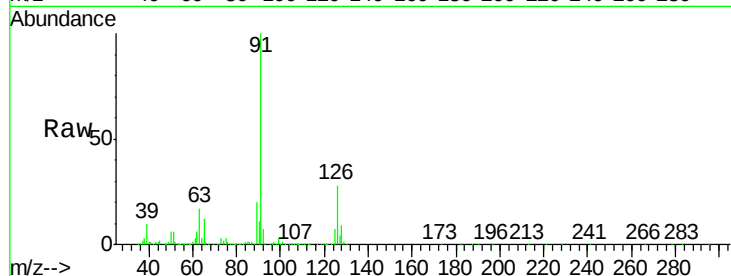
VL0702ABS01

Tgt Ion: 91 Resp: 4702857

Ion Ratio Lower Upper

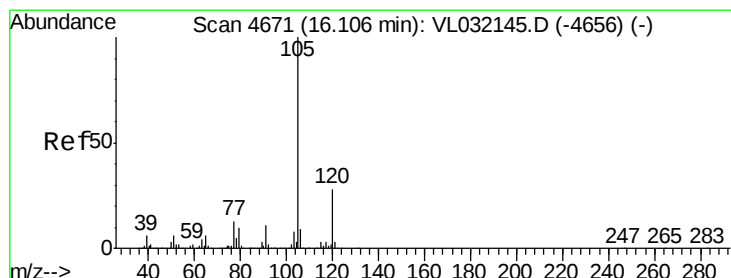
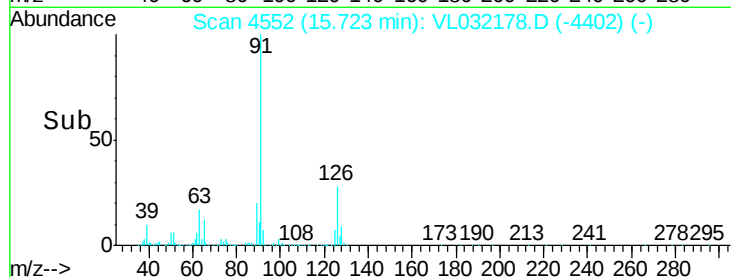
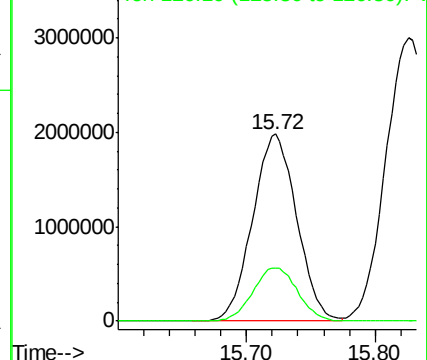
91 100

126 29.1 12.8 51.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.270 ppbv

RT: 16.10 min Scan# 4670

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion: 105 Resp: 5043147

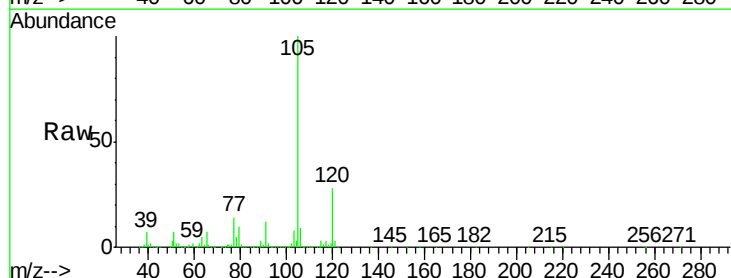
Ion Ratio Lower Upper

105 100

120 28.5 24.3 36.5

91 12.5 9.4 14.0

77 13.8 10.2 15.2

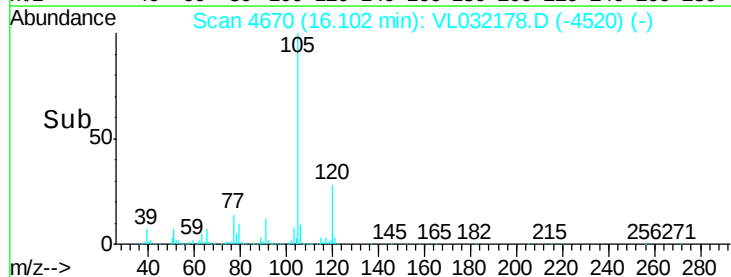
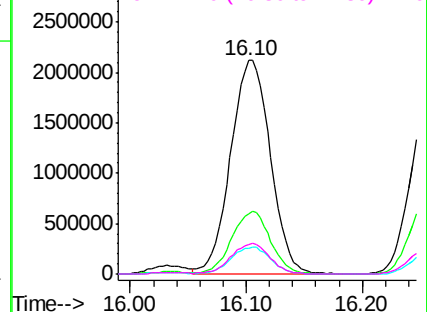


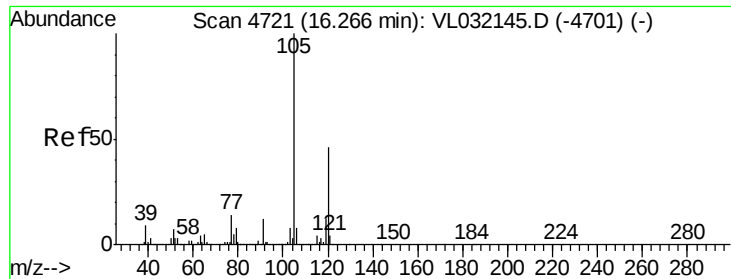
Abundance Ion 105.10 (104.80 to 105.80): V

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

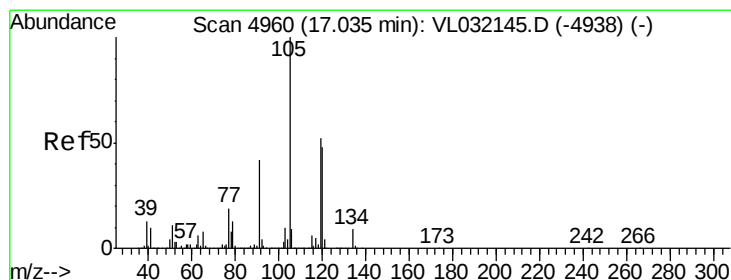
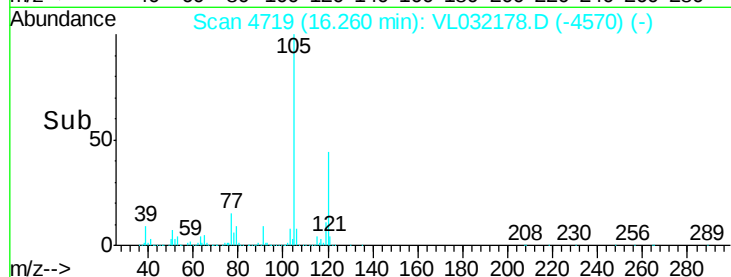
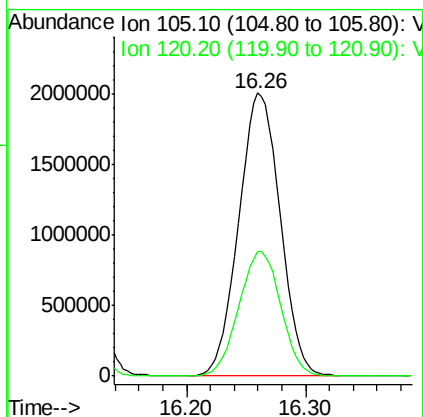
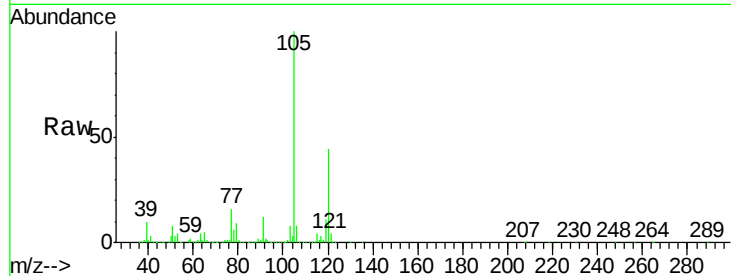




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.389 ppbv  
 RT: 16.26 min Scan# 4719  
 Delta R.T. -0.02 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

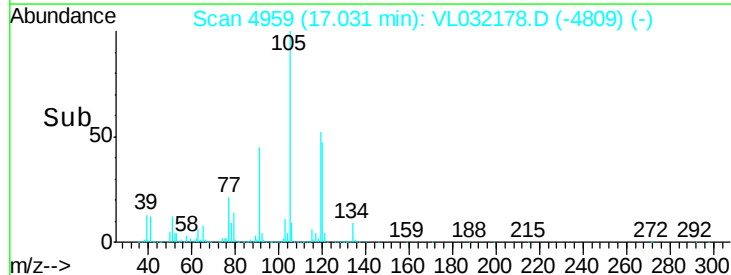
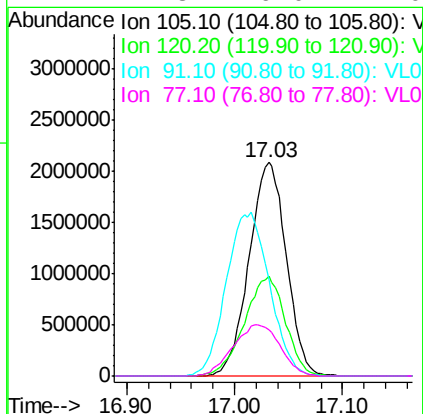
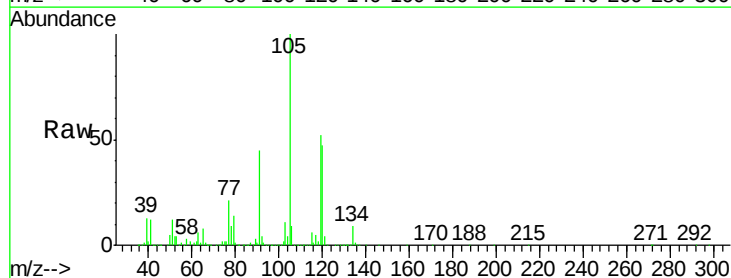
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

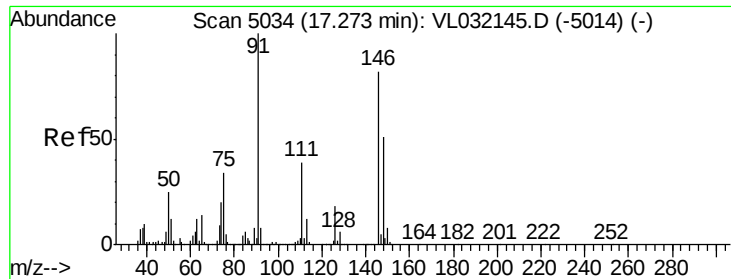
Tgt Ion:105 Resp: 4818849  
 Ion Ratio Lower Upper  
 105 100  
 120 44.2 38.6 57.8



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.605 ppbv  
 RT: 17.03 min Scan# 4959  
 Delta R.T. -0.02 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Tgt Ion:105 Resp: 4988257  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 38.8 58.2  
 91 44.7 33.6 50.4  
 77 21.3 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 8.412 ppbv

RT: 17.27 min Scan# 5034

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

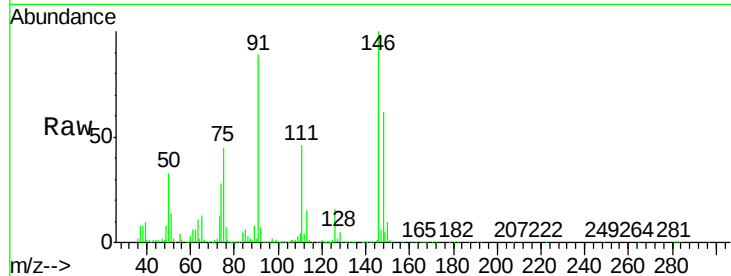
Tgt Ion:146 Resp: 2773897

Ion Ratio Lower Upper

146 100

111 49.2 22.9 68.8

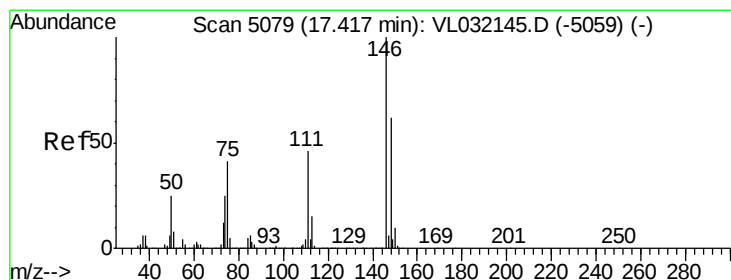
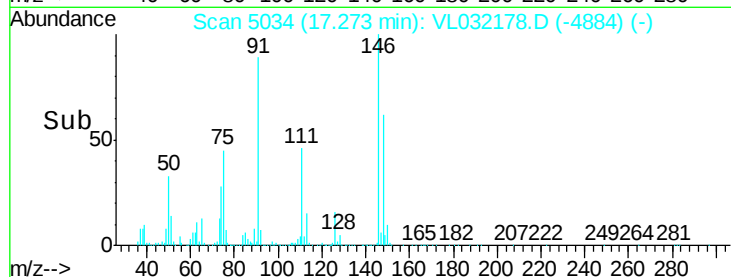
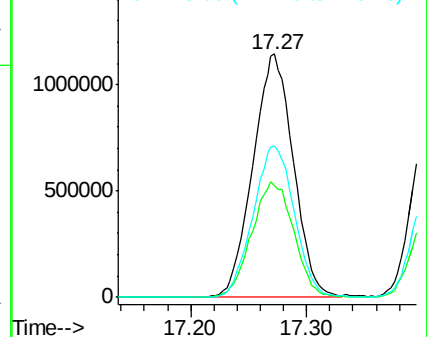
148 63.7 31.7 95.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.463 ppbv

RT: 17.41 min Scan# 5077

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

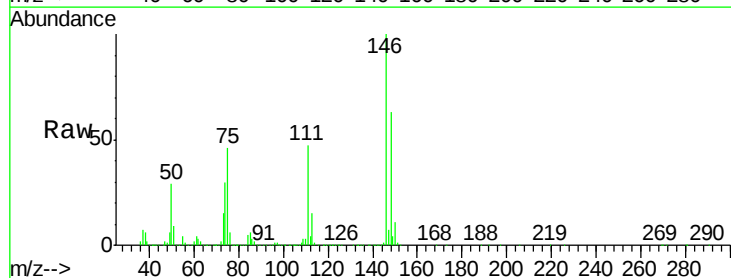
Tgt Ion:146 Resp: 2829828

Ion Ratio Lower Upper

146 100

111 48.1 21.9 65.8

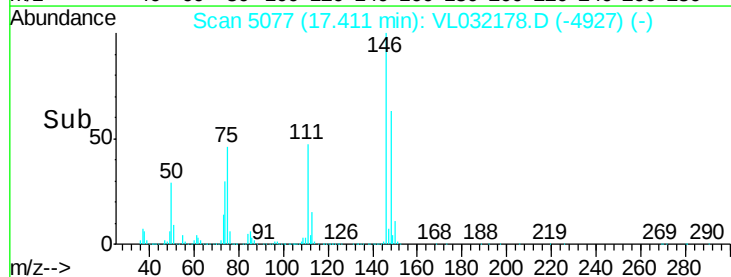
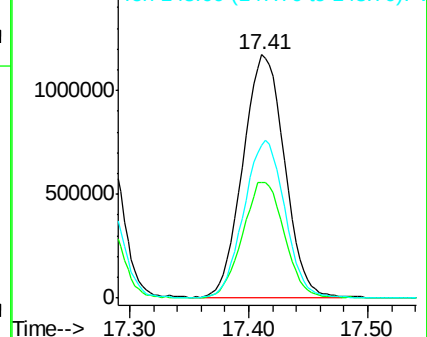
148 64.3 32.1 96.5

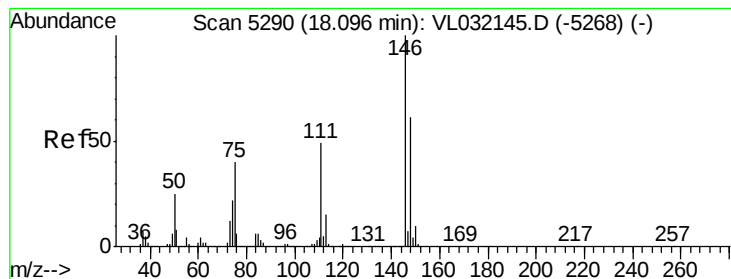


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.513 ppbv

RT: 18.09 min Scan# 5289

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA\_L

ClientSampleId :

VL0702ABS01

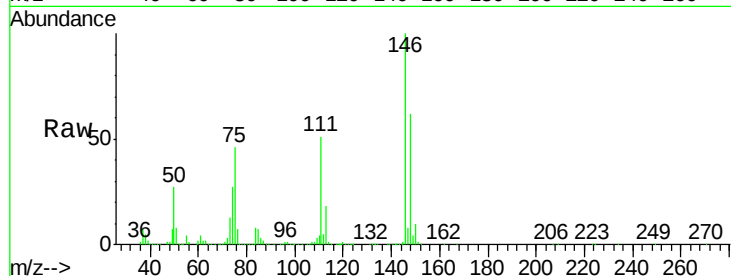
Tgt Ion:146 Resp: 2805539

Ion Ratio Lower Upper

146 100

111 51.2 23.4 70.3

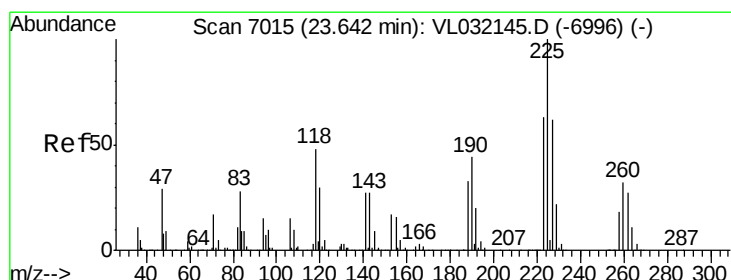
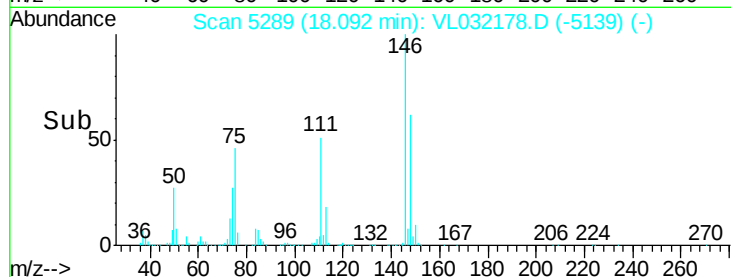
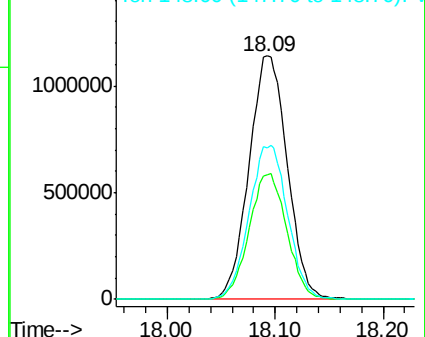
148 63.8 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.242 ppbv

RT: 23.64 min Scan# 7014

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

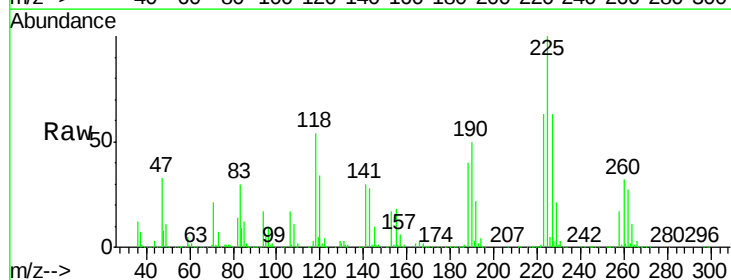
Tgt Ion:225 Resp: 830980

Ion Ratio Lower Upper

225 100

223 63.4 51.0 76.4

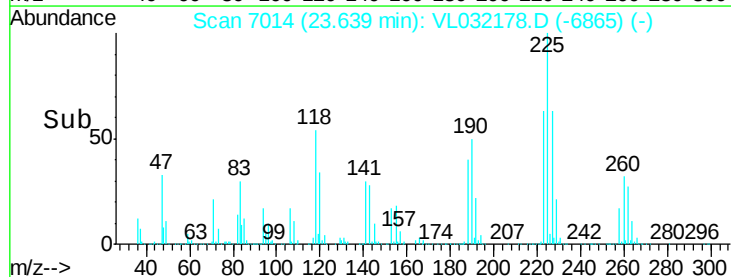
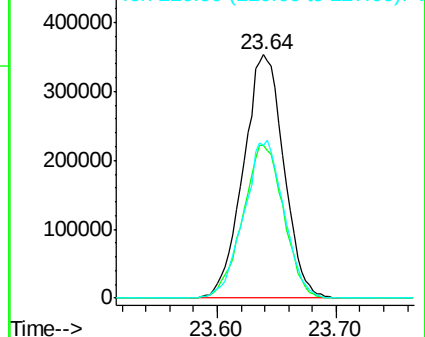
227 64.4 51.4 77.0

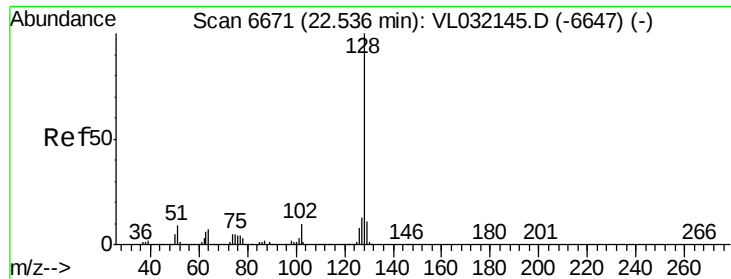


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

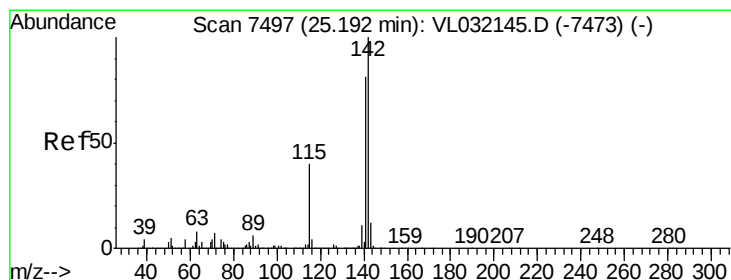
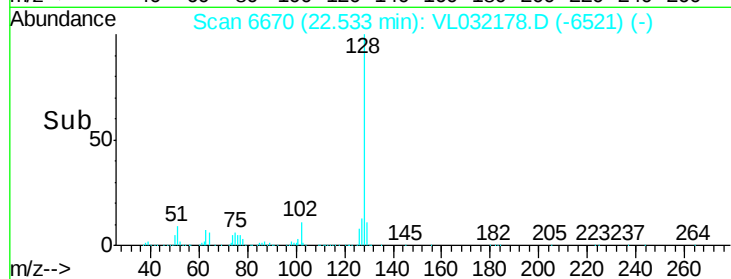
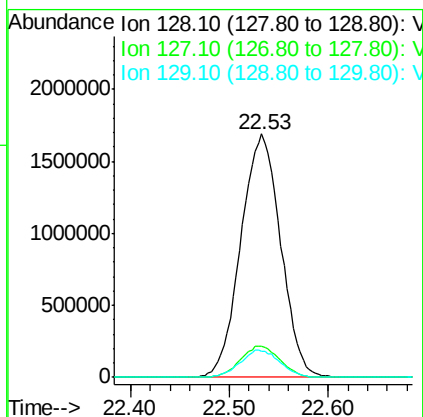
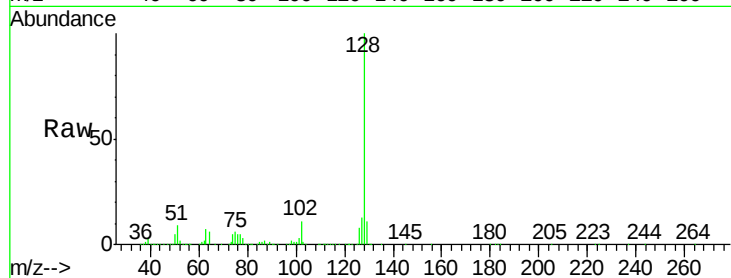




#79  
Naphthalene  
Concen: 8.931 ppbv  
RT: 22.53 min Scan# 6670  
Delta R.T. -0.02 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

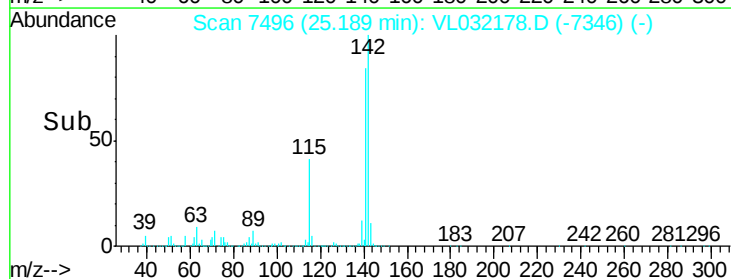
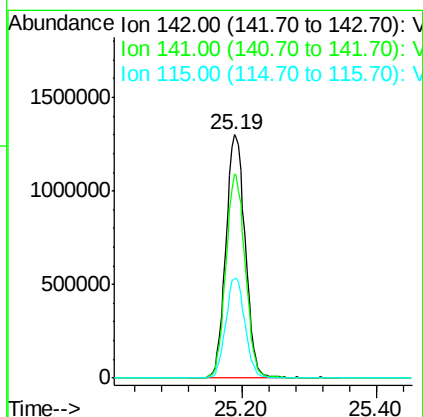
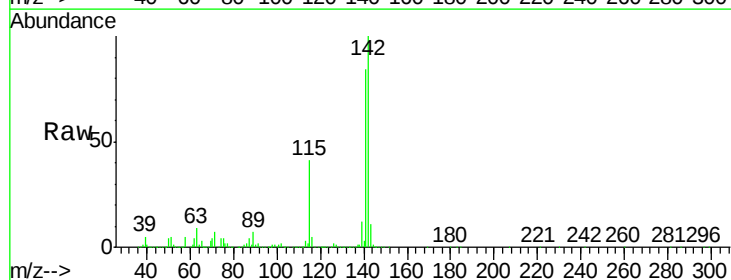
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0702ABS01

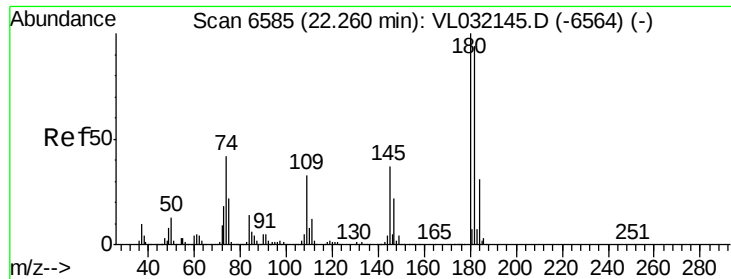
Tgt Ion:128 Resp: 4706307  
Ion Ratio Lower Upper  
128 100  
127 12.6 10.5 15.7  
129 10.6 9.0 13.6



#80  
Naphthalene, 2-methyl-  
Concen: 13.767 ppbv  
RT: 25.19 min Scan# 7496  
Delta R.T. -0.02 min  
Lab File: VL032178.D  
Acq: 2 Jul 2018 12:26

Tgt Ion:142 Resp: 2618456  
Ion Ratio Lower Upper  
142 100  
141 83.4 65.8 98.6  
115 40.6 29.4 44.0

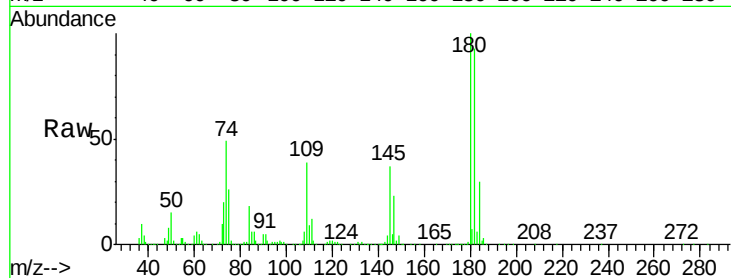




#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.913 ppbv  
 RT: 22.26 min Scan# 6585  
 Delta R.T. -0.01 min  
 Lab File: VL032178.D  
 Acq: 2 Jul 2018 12:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0702ABS01

Tgt Ion:180 Resp: 2120826  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 76.2 114.4  
 184 30.3 24.4 36.6



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

