

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL070218\  
 Data File : VL032176.D  
 Acq On : 2 Jul 2018 10:00  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Jul 03 05:00:02 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   | 1461780  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.39  | 114  | 4047441  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.34 | 117  | 4742765  | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.68  | 95    | 2869441  | 7.91     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 79.10% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.13 | 85   | 1608755  | 8.358  | ppbv  | 99     |
| 3) Chlorodifluoromethane       | 3.07 | 51   | 1683104  | 9.423  | ppbv  | 95     |
| 4) Chloromethane               | 3.23 | 50   | 925229   | 9.703  | ppbv  | 98     |
| 5) Vinyl Chloride              | 3.35 | 62   | 918132   | 9.534  | ppbv  | 99     |
| 6) Bromomethane                | 3.58 | 94   | 530647   | 9.674  | ppbv  | 97     |
| 7) Chloroethane                | 3.67 | 64   | 323186   | 9.490  | ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.28 | 85   | 2014349  | 9.377  | ppbv  | 93     |
| 9) Propene                     | 3.09 | 41   | 738466   | 8.871  | ppbv  | 98     |
| 10) Heptane                    | 8.34 | 43   | 2387412  | 9.837  | ppbv  | 98     |
| 11) Trichlorofluoromethane     | 4.07 | 101  | 1946699  | 9.348  | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.63 | 101  | 1248722  | 9.004  | ppbv  | 93     |
| 13) Ethanol                    | 3.72 | 45   | 174065   | 6.898  | ppbv  | 96     |
| 14) Bromoethene                | 3.85 | 108  | 625017   | 9.472  | ppbv  | 99     |
| 15) Acetone                    | 3.97 | 43   | 1487033  | 8.700  | ppbv  | 99     |
| 16) 1,3-Butadiene              | 3.42 | 39   | 839368   | 10.291 | ppbv  | 90     |
| 17) tert-Butyl alcohol         | 4.43 | 59   | 892310   | 8.199  | ppbv  | 98     |
| 18) 1,1-Dichloroethene         | 4.42 | 96   | 596922   | 8.997  | ppbv  | 96     |
| 19) Isopropyl Alcohol          | 4.09 | 45   | 1192130  | 8.394  | ppbv  | # 41   |
| 20) Methylene Chloride         | 4.48 | 84   | 523365   | 8.379  | ppbv  | 94     |
| 21) Allyl Chloride             | 4.55 | 41   | 1050328  | 8.999  | ppbv  | 96     |
| 22) trans-1,2-Dichloroethene   | 5.04 | 96   | 664248   | 9.577  | ppbv  | 98     |
| 23) Vinyl Acetate              | 5.23 | 43   | 2866530  | 9.248  | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.17 | 63   | 1931958  | 9.730  | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.85 | 43   | 3261935  | 9.224  | ppbv  | 99     |
| 26) Hexane                     | 5.86 | 57   | 1502813  | 9.228  | ppbv  | 97     |
| 27) Carbon Disulfide           | 4.69 | 76   | 1572254  | 9.712  | ppbv  | 100    |
| 28) Methyl tert-Butyl Ether    | 5.19 | 73   | 2632405  | 9.146  | ppbv  | 100    |
| 29) Chloroform                 | 5.94 | 83   | 2348495  | 9.907  | ppbv  | 98     |
| 30) Cyclohexane                | 7.34 | 84   | 1598461  | 10.414 | ppbv  | 98     |
| 31) cis-1,2-Dichloroethene     | 5.72 | 61   | 1621999  | 9.966  | ppbv  | 92     |
| 32) 1,1,1-Trichloroethane      | 6.71 | 97   | 2685342  | 10.807 | ppbv  | 98     |
| 34) 2-Butanone                 | 5.41 | 43   | 2262691  | 8.808  | ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.23 | 117  | 2658383  | 9.595  | ppbv  | 95     |
| 36) Benzene                    | 7.10 | 78   | 3847090  | 9.820  | ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.50 | 62   | 1854445  | 9.502  | ppbv  | 97     |
| 38) Trichloroethene            | 8.06 | 130  | 1277201  | 8.346  | ppbv  | 95     |
| 39) 1,2-Dichloropropane        | 7.83 | 63   | 1481719  | 9.590  | ppbv  | 97     |
| 40) 1,4-Dioxane                | 8.05 | 88   | 512042   | 8.451  | ppbv  | # 1    |
| 41) Tetrahydrofuran            | 6.23 | 42   | 1338170  | 8.690  | ppbv  | 97     |
| 42) Bromodichloromethane       | 8.01 | 83   | 2992374  | 9.782  | ppbv  | 96     |
| 43) Methyl Methacrylate        | 8.23 | 69   | 1593007  | 9.810  | ppbv  | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL070218\  
 Data File : VL032176.D  
 Acq On : 2 Jul 2018 10:00  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

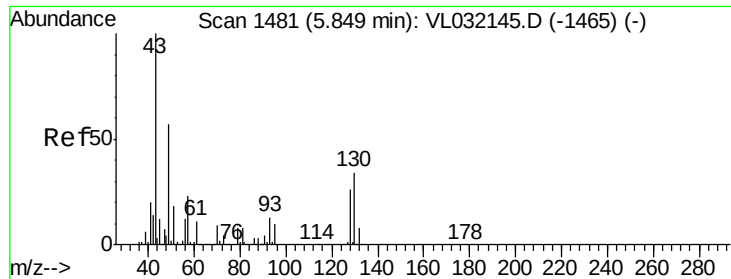
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Jul 03 05:00:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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   | 6220701  | 9.076  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.51  | 75   | 1980129  | 9.842  | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.93  | 75   | 2324594  | 9.677  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.72  | 97   | 1489713  | 9.276  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.56 | 129  | 2338642  | 9.407  | ppbv   | 100      |
| 49) Bromoform                 | 13.30 | 173  | 1880307  | 9.032  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.97  | 43   | 3850309  | 9.149  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.37 | 43   | 3244348  | 9.300  | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.48 | 164  | 1142621  | 8.021  | ppbv   | 97       |
| 53) Toluene                   | 10.05 | 91   | 4347640  | 9.182  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.86 | 107  | 2247032  | 9.308  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.38 | 131  | 1590508  | 7.511  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.40 | 112  | 3069801  | 7.474  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.97 | 91   | 5776576  | 7.558  | ppbv   | 95       |
| 59) m/p-Xylene                | 13.25 | 91   | 4334432  | 7.075  | ppbv # | 29       |
| 60) o-Xylene                  | 13.95 | 91   | 4394197  | 7.191  | ppbv   | 96       |
| 61) Styrene                   | 13.79 | 104  | 3716827  | 7.422  | ppbv   | 95       |
| 62) Isopropylbenzene          | 14.93 | 105  | 6317533  | 6.723  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.94 | 83   | 3126782  | 6.608  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.83 | 120  | 1013465  | 4.167  | ppbv # | 1        |
| 65) tert-Butylbenzene         | 17.01 | 119  | 5551867  | 6.724  | ppbv   | 93       |
| 66) Benzyl Chloride           | 17.26 | 91   | 3566656  | 6.995  | ppbv   | 95       |
| 67) sec-Butylbenzene          | 17.56 | 105  | 8272057  | 6.843  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.92 | 119  | 6461700  | 6.663  | ppbv   | 96       |
| 70) n-Butylbenzene            | 18.82 | 91   | 7352035  | 7.261  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.72 | 91   | 5036510  | 6.961  | ppbv   | 95       |
| 72) 4-Ethyltoluene            | 16.11 | 105  | 5460208  | 6.918  | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 16.26 | 105  | 5174518  | 6.960  | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 17.03 | 105  | 5356704  | 7.140  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 17.27 | 146  | 2921978  | 6.847  | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 17.41 | 146  | 3028687  | 6.998  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 18.09 | 146  | 2953851  | 6.926  | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 23.64 | 225  | 1725729  | 11.620 | ppbv   | 99       |
| 79) Naphthalene               | 22.53 | 128  | 5318521  | 7.798  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.19 | 142  | 2662161  | 10.815 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 22.26 | 180  | 2475965  | 8.040  | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

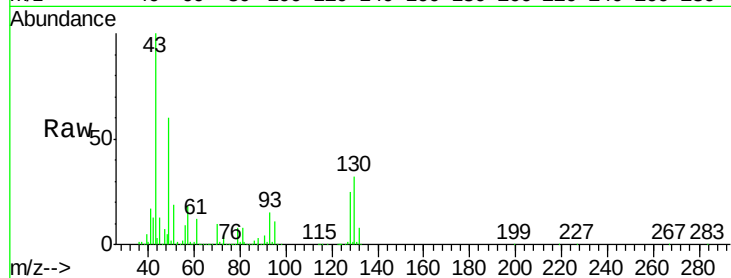
Tgt Ion: 49 Resp: 1461780

Ion Ratio Lower Upper

49 100

128 44.8 23.4 70.0

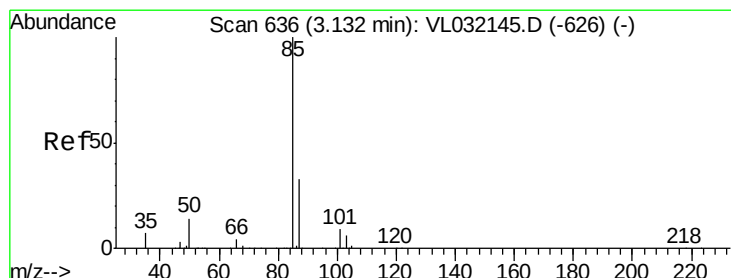
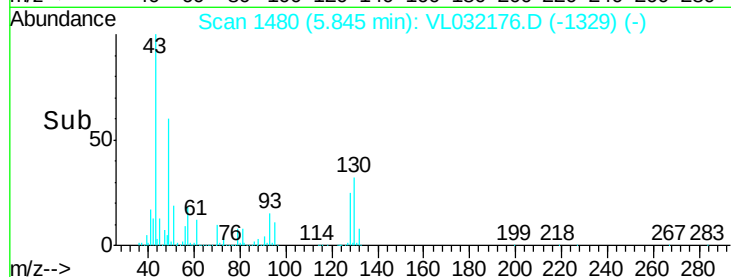
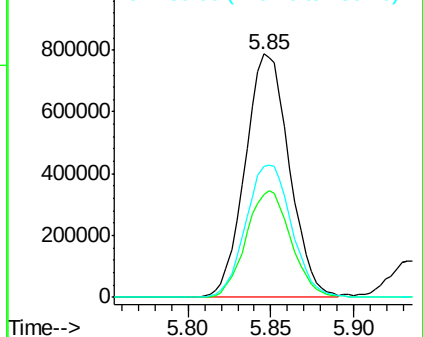
130 56.6 30.3 90.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.358 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032176.D

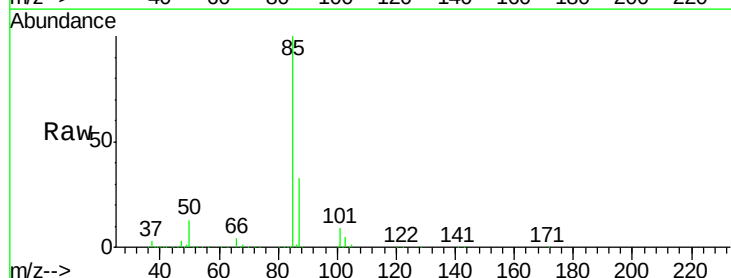
Acq: 2 Jul 2018 10:00

Tgt Ion: 85 Resp: 1608755

Ion Ratio Lower Upper

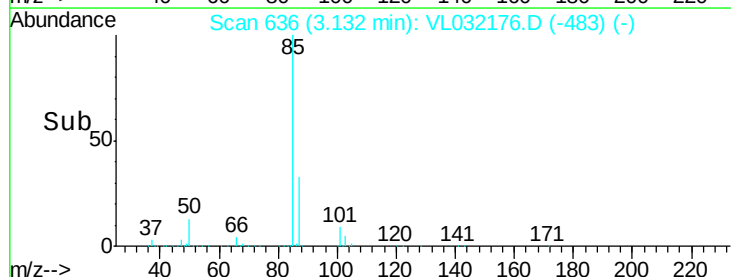
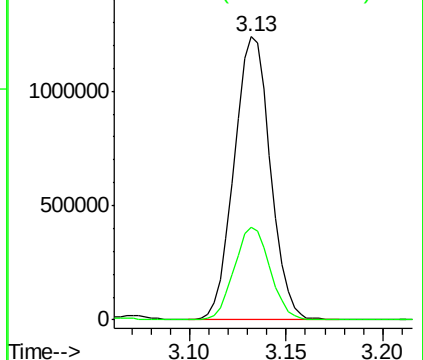
85 100

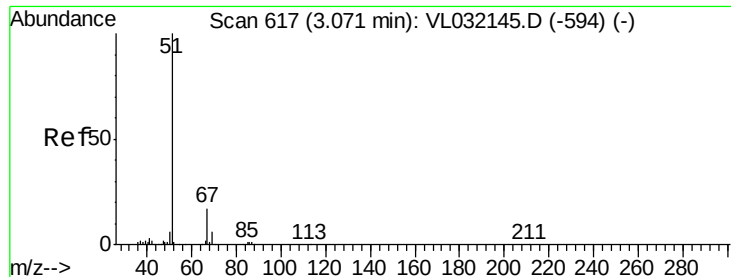
87 32.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.423 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

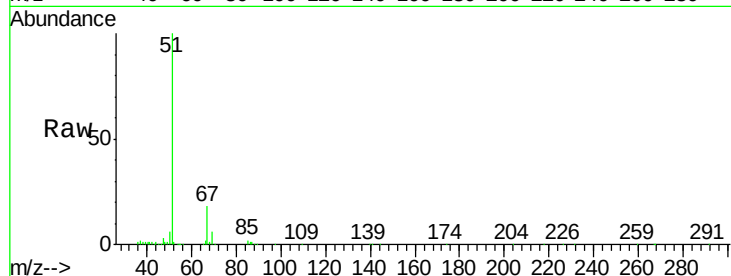
VSTDCCC010

Tgt Ion: 51 Resp: 1683104

Ion Ratio Lower Upper

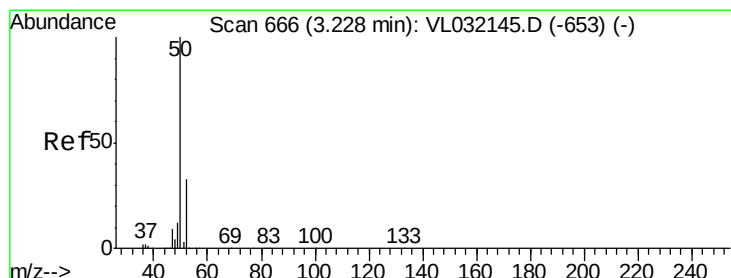
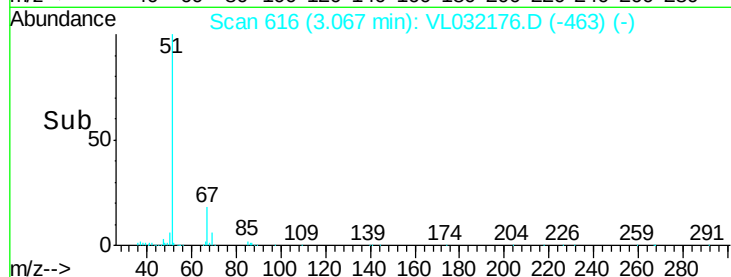
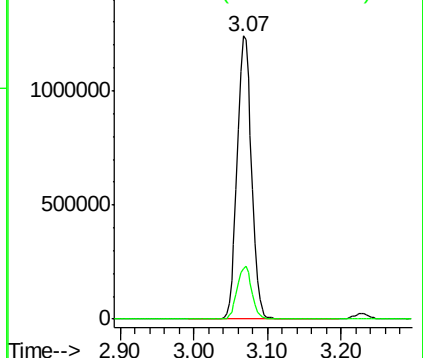
51 100

67 18.8 13.2 19.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.703 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032176.D

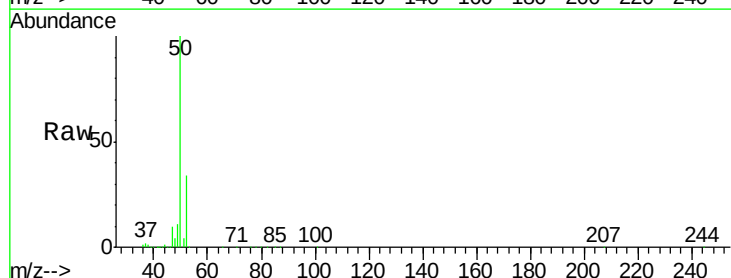
Acq: 2 Jul 2018 10:00

Tgt Ion: 50 Resp: 925229

Ion Ratio Lower Upper

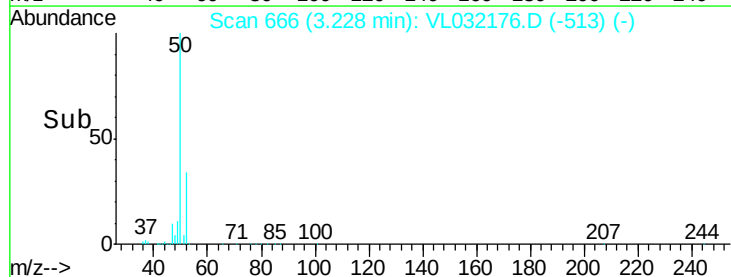
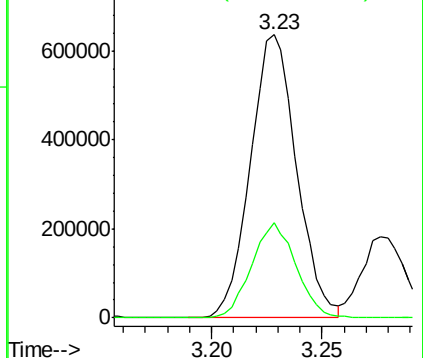
50 100

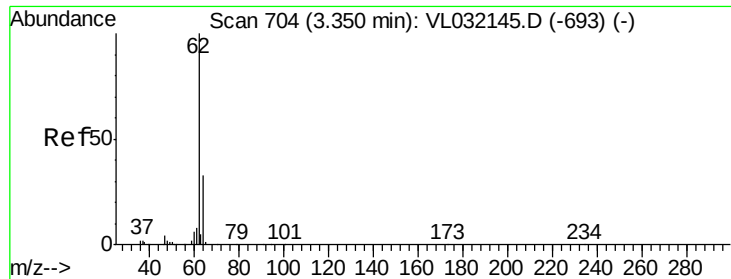
52 33.8 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.534 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

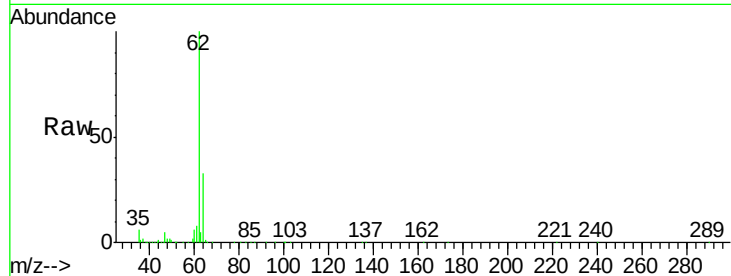
VSTDCCC010

Tgt Ion: 62 Resp: 918132

Ion Ratio Lower Upper

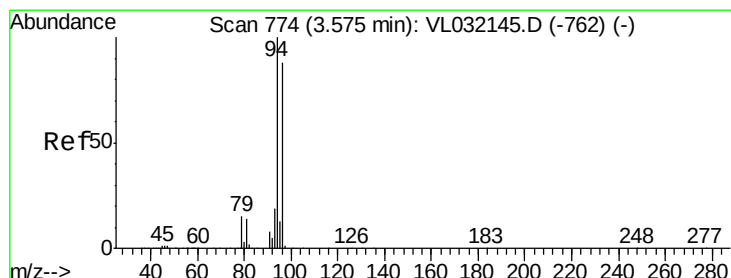
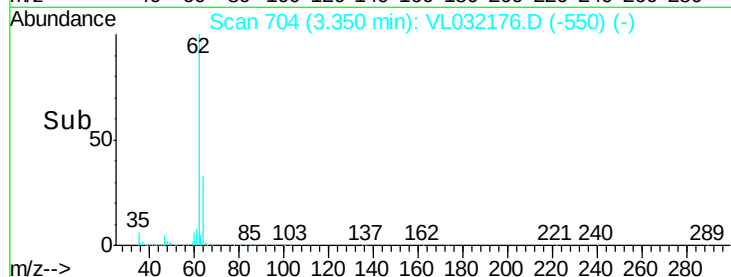
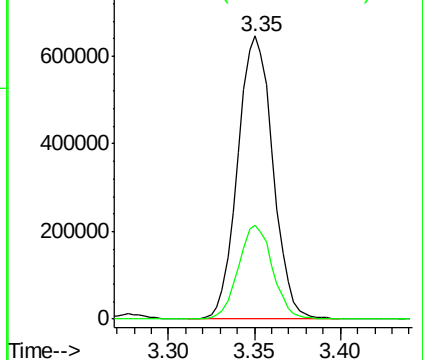
62 100

64 33.0 26.1 39.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.674 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032176.D

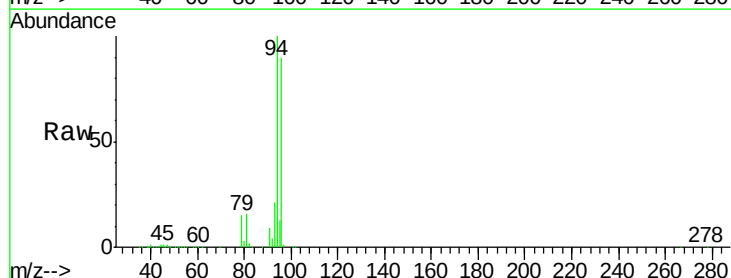
Acq: 2 Jul 2018 10:00

Tgt Ion: 94 Resp: 530647

Ion Ratio Lower Upper

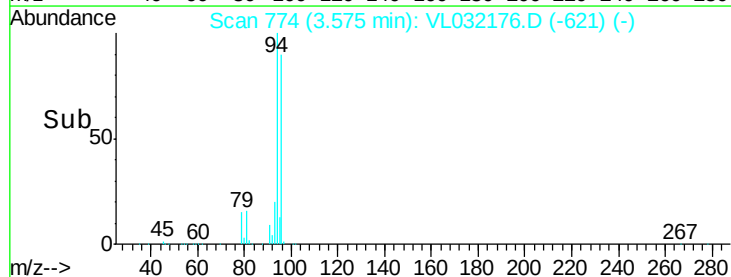
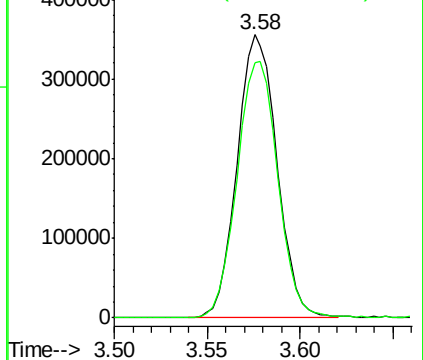
94 100

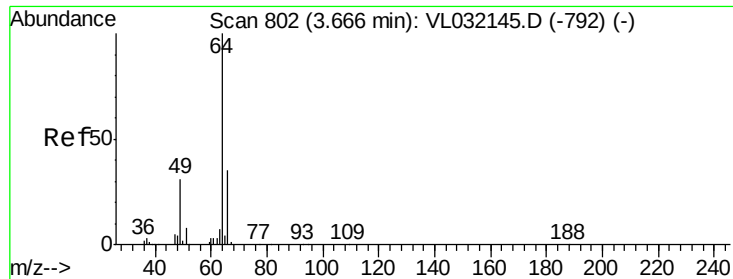
96 90.4 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.490 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

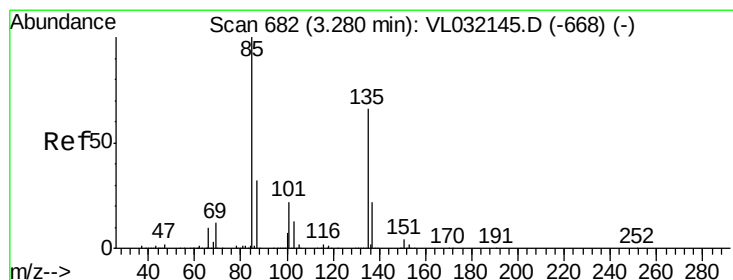
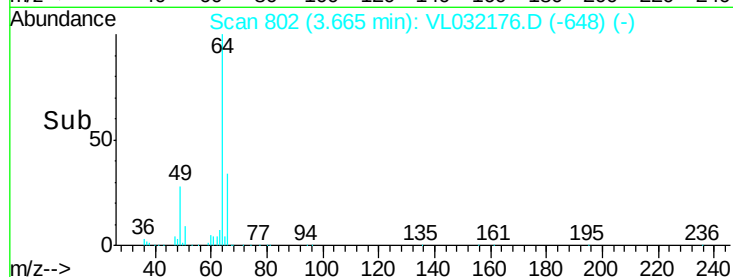
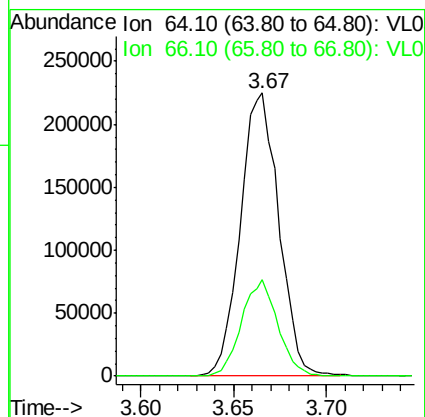
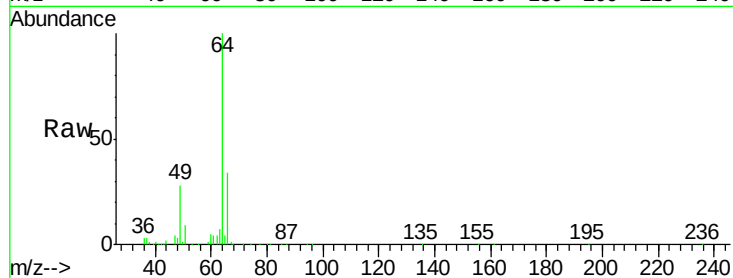
VSTDCCC010

Tgt Ion: 64 Resp: 323186

Ion Ratio Lower Upper

64 100

66 34.3 26.9 40.3



#8

Dichlorotetrafluoroethane

Concen: 9.377 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032176.D

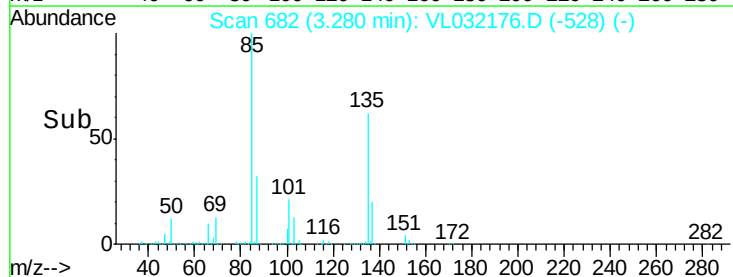
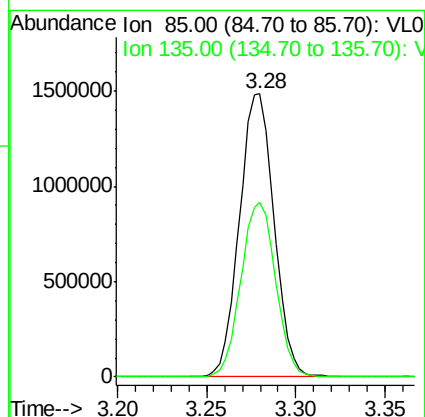
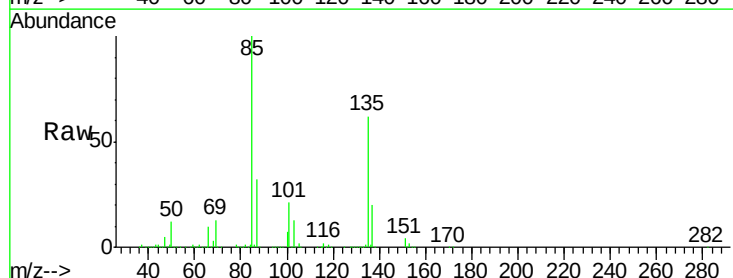
Acq: 2 Jul 2018 10:00

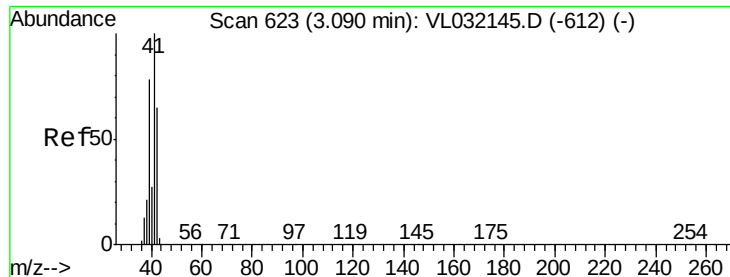
Tgt Ion: 85 Resp: 2014349

Ion Ratio Lower Upper

85 100

135 62.3 54.6 82.0





#9

Propene

Concen: 8.871 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

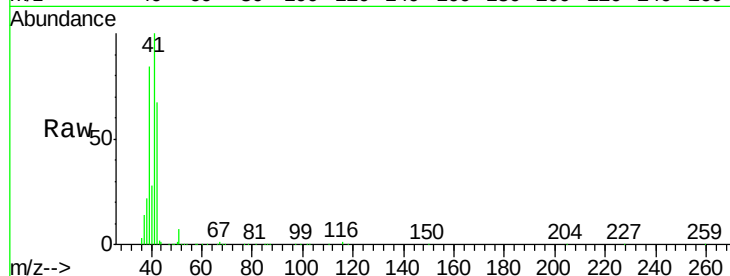
VSTDCCC010

Tgt Ion: 41 Resp: 738466

Ion Ratio Lower Upper

41 100

42 68.6 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.09

600000

500000

400000

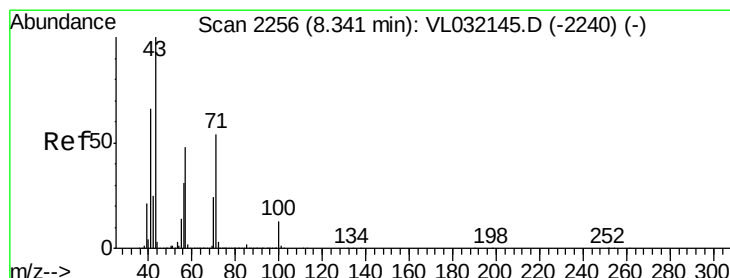
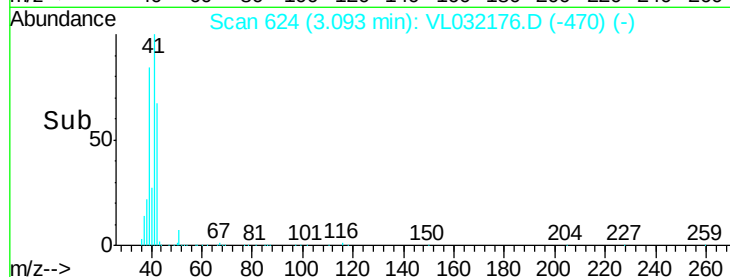
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 9.837 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032176.D

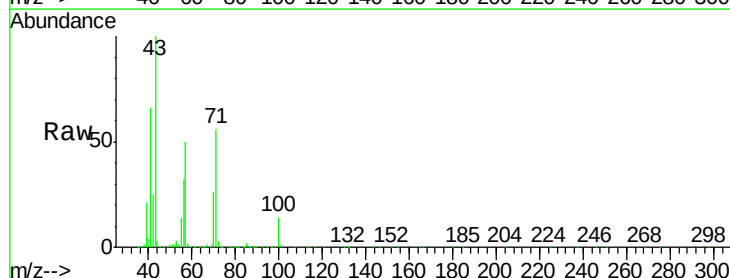
Acq: 2 Jul 2018 10:00

Tgt Ion: 43 Resp: 2387412

Ion Ratio Lower Upper

43 100

57 50.9 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

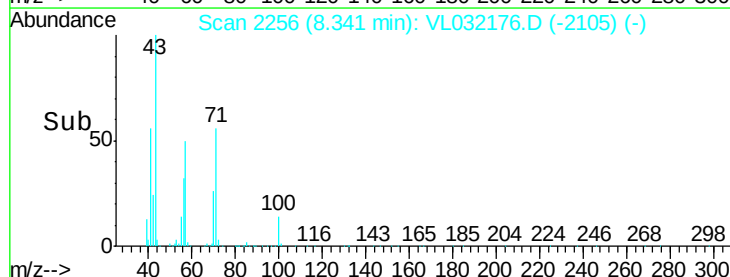
8.34

1000000

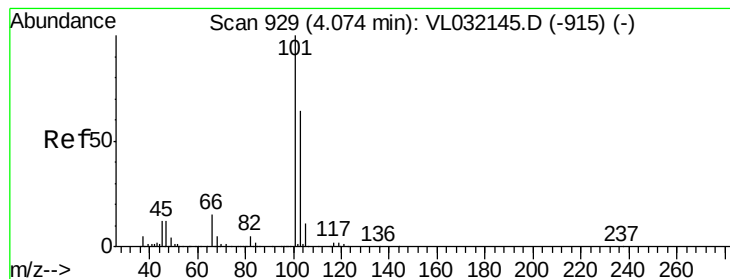
500000

0

Time-->







#11

Trichlorofluoromethane

Concen: 9.348 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

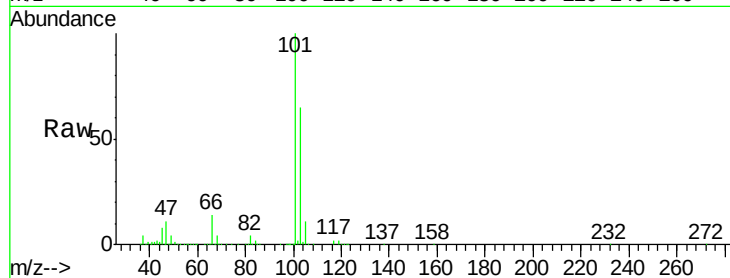
VSTDCCC010

Tgt Ion:101 Resp: 1946699

Ion Ratio Lower Upper

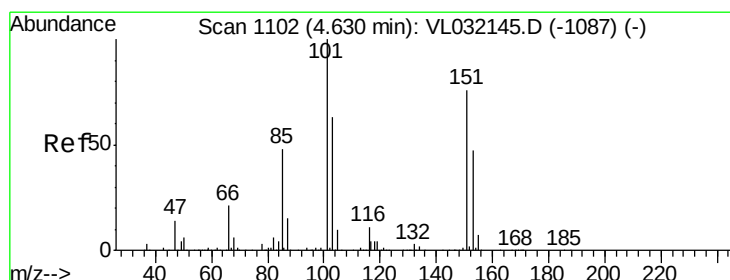
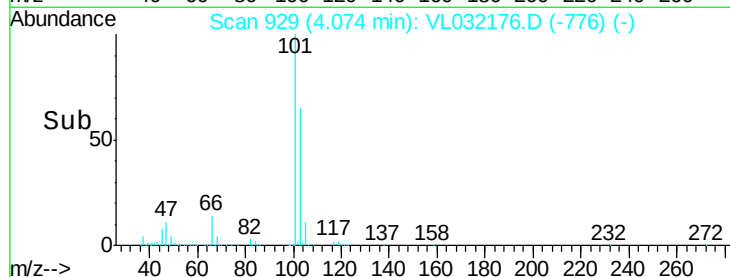
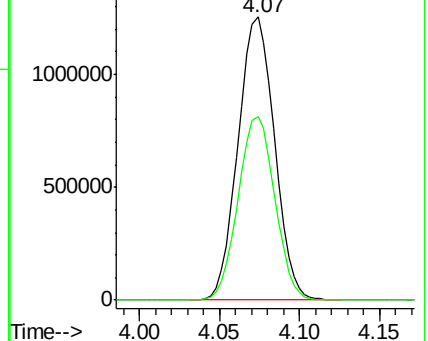
101 100

103 65.0 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.004 ppbv

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL032176.D

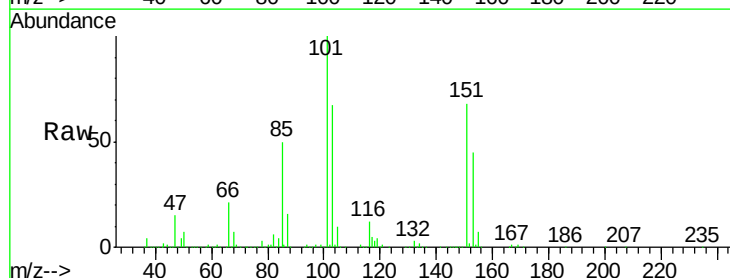
Acq: 2 Jul 2018 10:00

Tgt Ion:101 Resp: 1248722

Ion Ratio Lower Upper

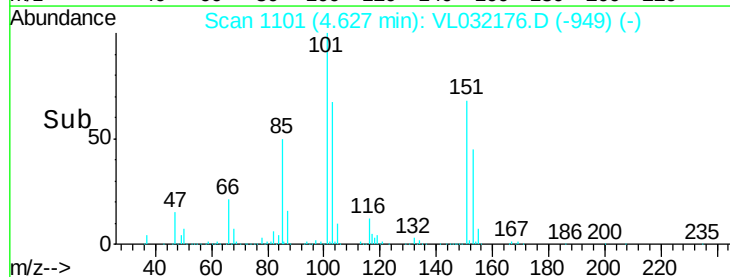
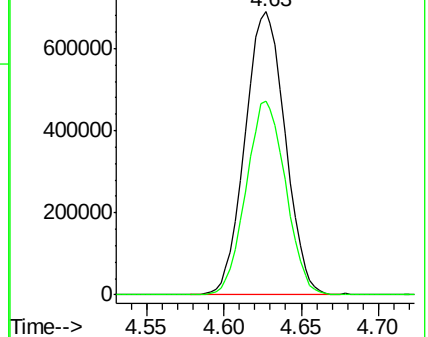
101 100

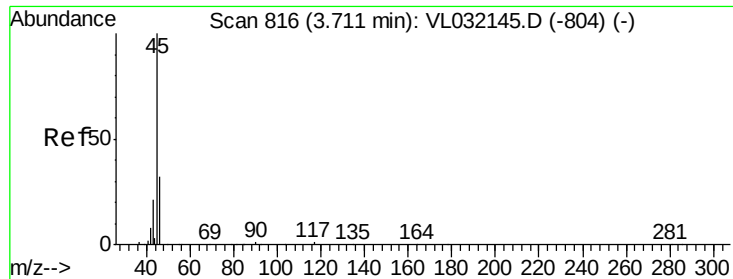
151 67.2 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 6.898 ppbv

RT: 3.72 min Scan# 818

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

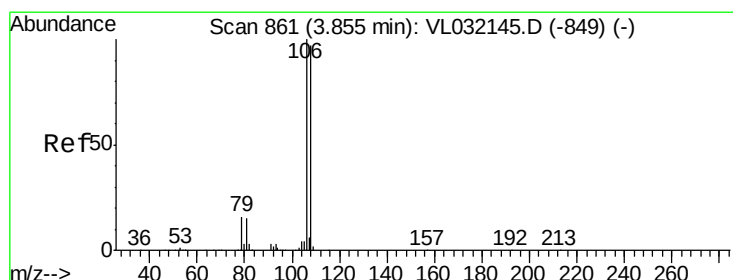
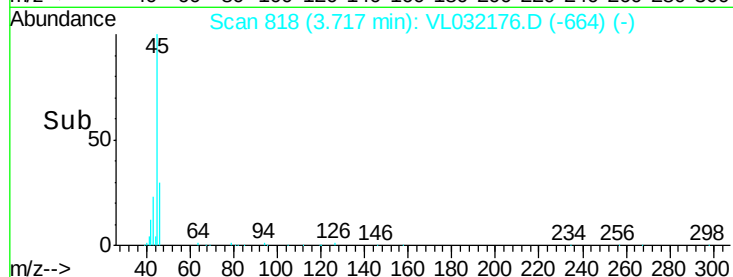
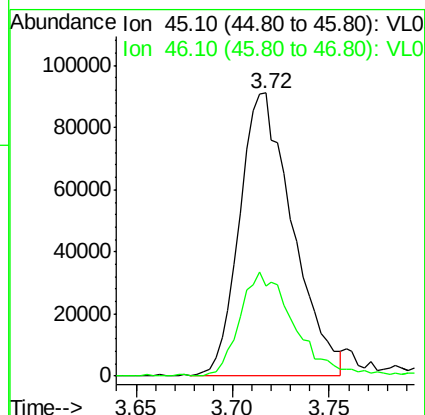
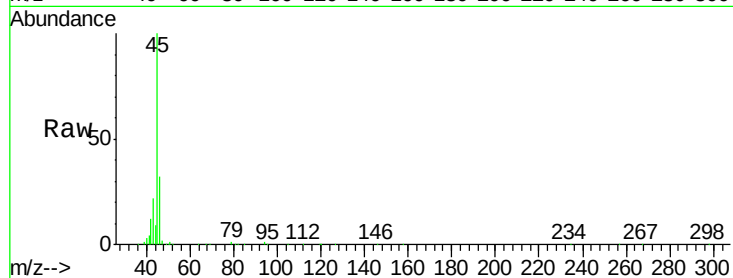
VSTDCCC010

Tgt Ion: 45 Resp: 174065

Ion Ratio Lower Upper

45 100

46 39.0 14.6 58.4



#14

Bromoethene

Concen: 9.472 ppbv

RT: 3.85 min Scan# 860

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

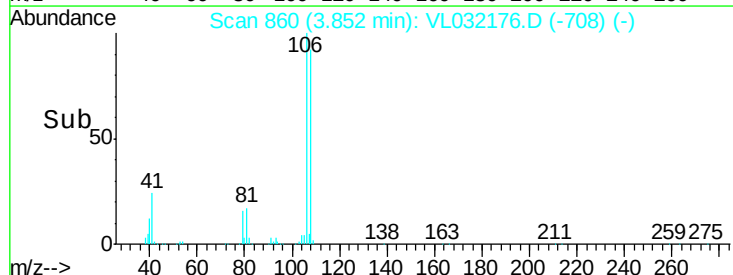
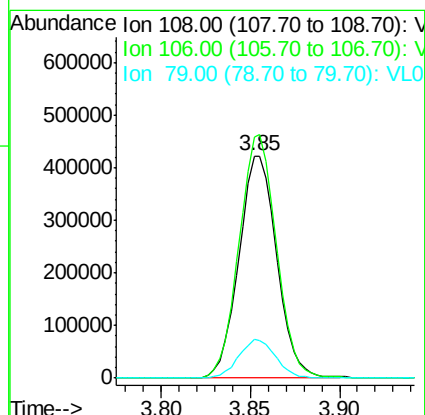
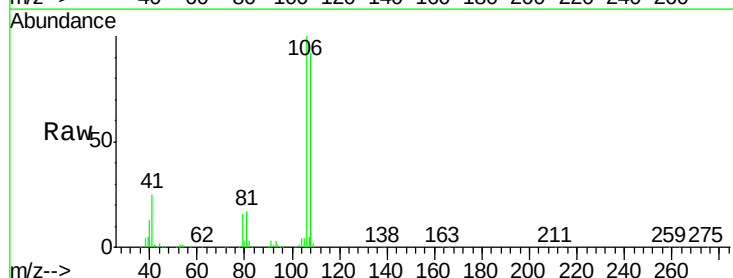
Tgt Ion: 108 Resp: 625017

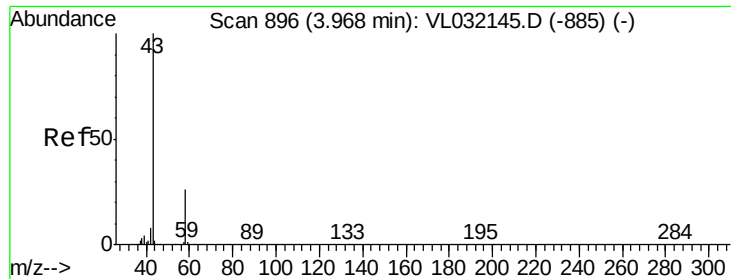
Ion Ratio Lower Upper

108 100

106 108.4 86.3 129.5

79 17.3 12.7 19.1





#15

Acetone

Concen: 8.700 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

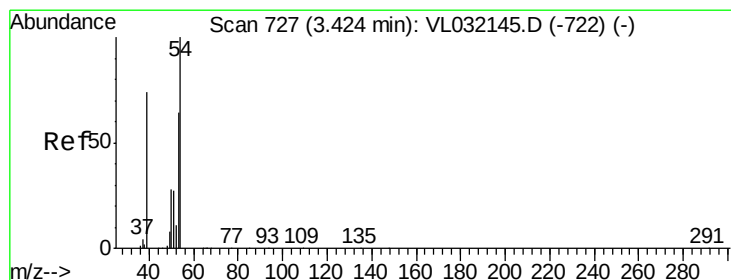
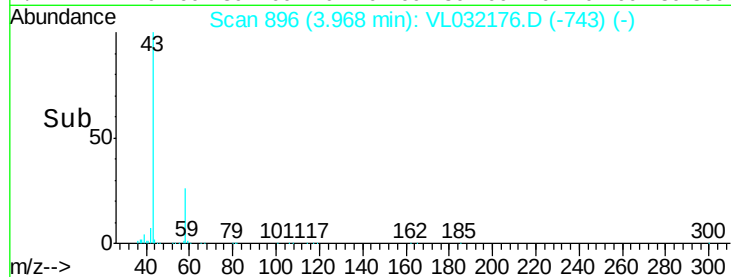
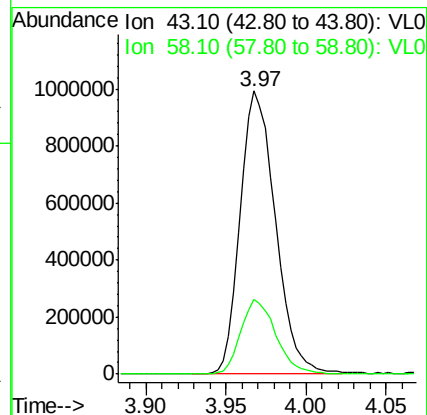
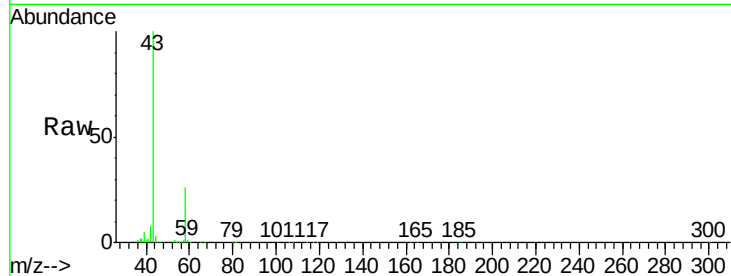
VSTDCCC010

Tgt Ion: 43 Resp: 1487033

Ion Ratio Lower Upper

43 100

58 26.4 21.4 32.0



#16

1,3-Butadiene

Concen: 10.291 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032176.D

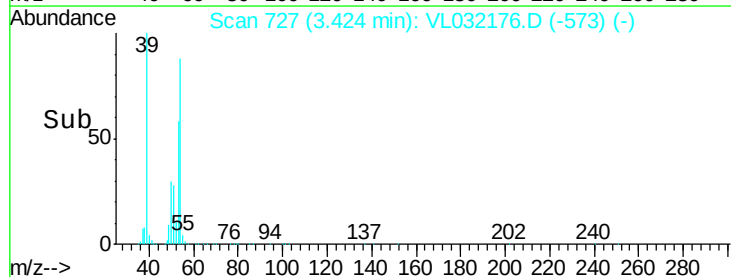
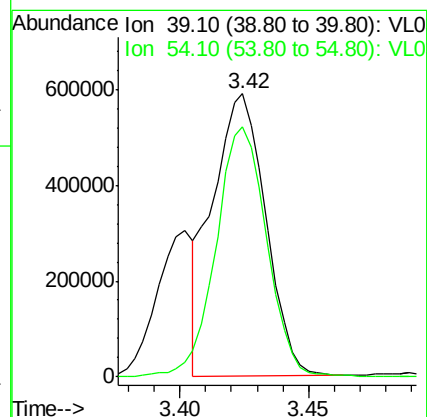
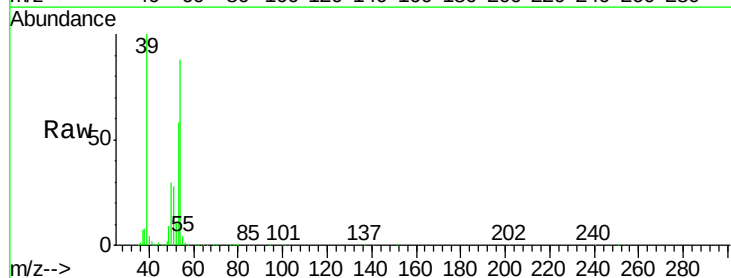
Acq: 2 Jul 2018 10:00

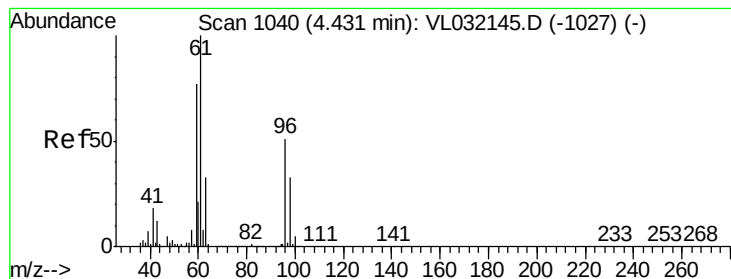
Tgt Ion: 39 Resp: 839368

Ion Ratio Lower Upper

39 100

54 85.1 75.8 113.6





#17

tert-Butyl alcohol

Concen: 8.199 ppbv

RT: 4.43 min Scan# 1040

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

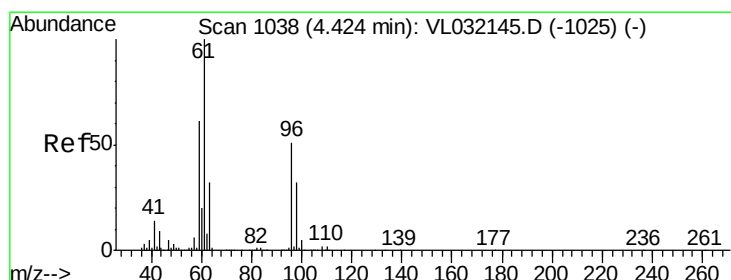
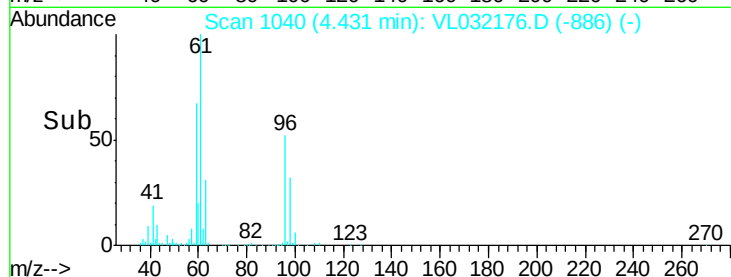
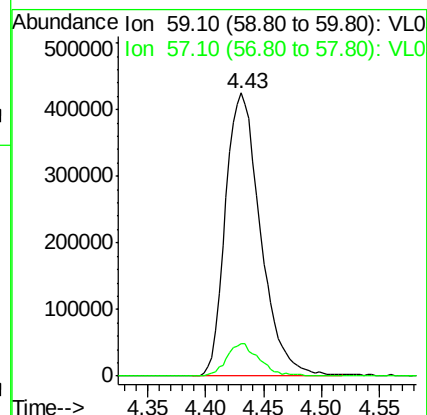
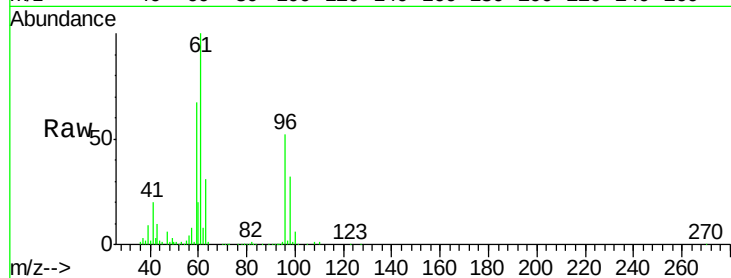
VSTDCCC010

Tgt Ion: 59 Resp: 892310

Ion Ratio Lower Upper

59 100

57 10.8 8.2 12.2



#18

1,1-Dichloroethene

Concen: 8.997 ppbv

RT: 4.42 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

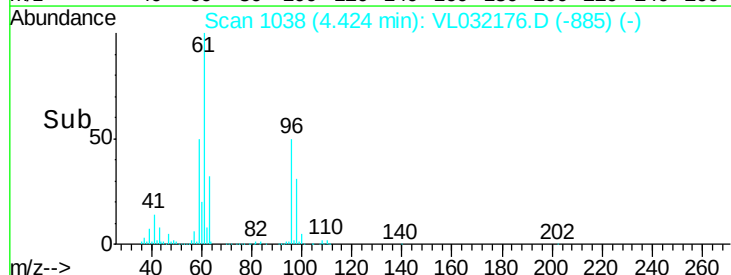
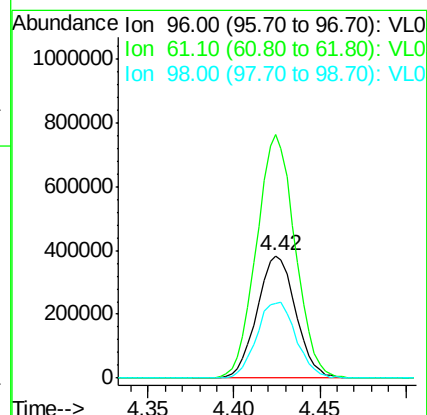
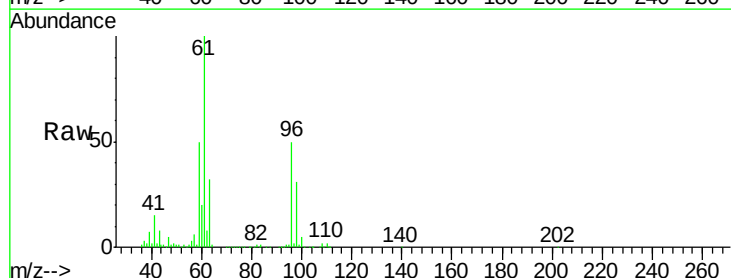
Tgt Ion: 96 Resp: 596922

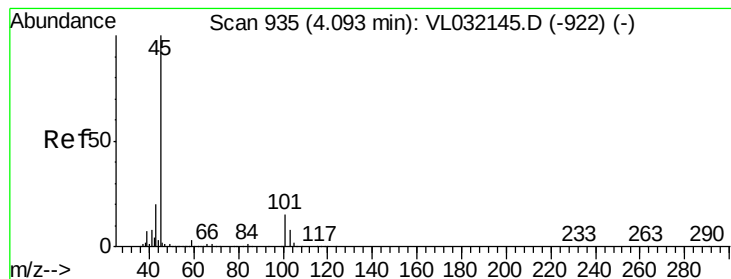
Ion Ratio Lower Upper

96 100

61 198.8 154.1 231.1

98 61.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 8.394 ppbv

RT: 4.09 min Scan# 935

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

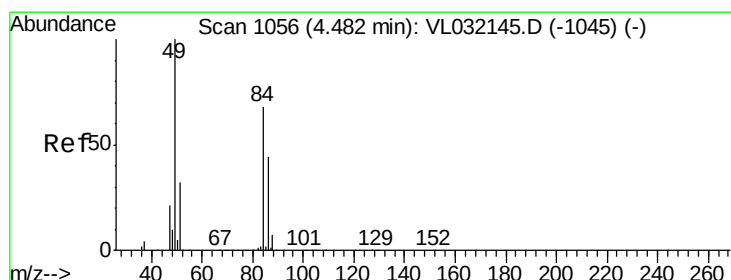
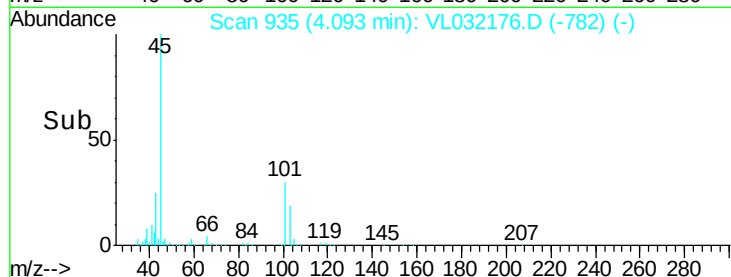
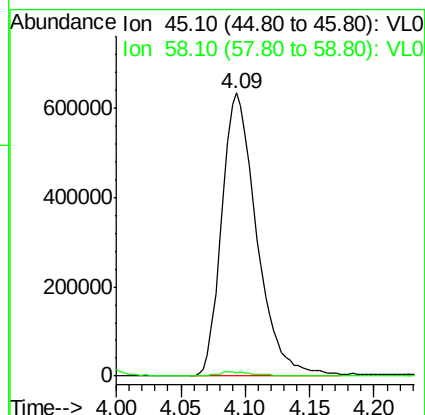
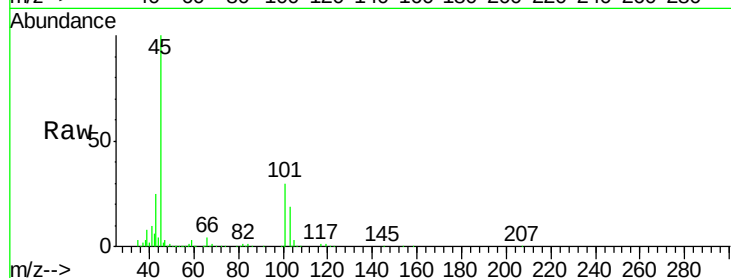
VSTDCCC010

Tgt Ion: 45 Resp: 1192130

Ion Ratio Lower Upper

45 100

58 1.6 29.4 44.0#



#20

Methylene Chloride

Concen: 8.379 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Tgt Ion: 84 Resp: 523365

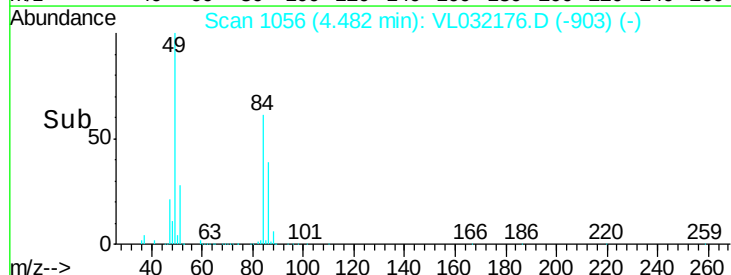
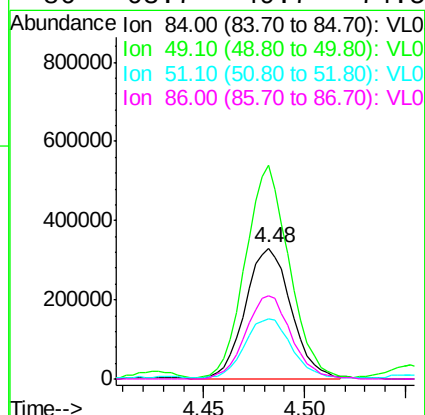
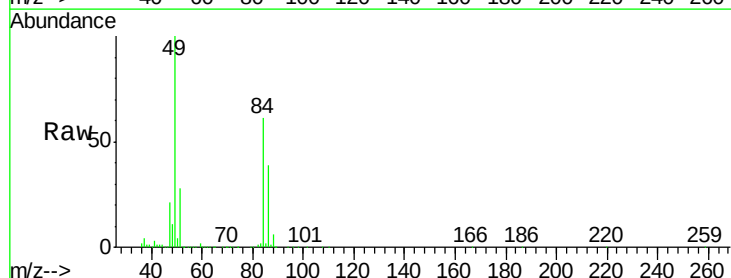
Ion Ratio Lower Upper

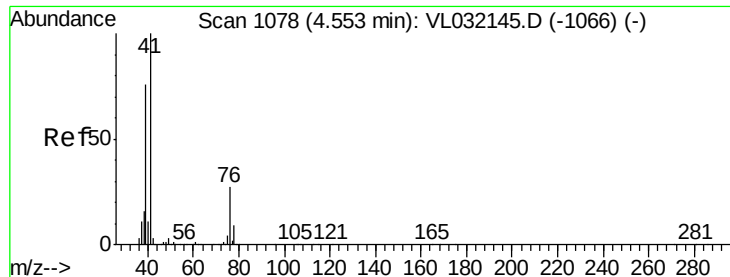
84 100

49 162.1 119.6 179.4

51 44.9 36.3 54.5

86 63.7 49.7 74.5

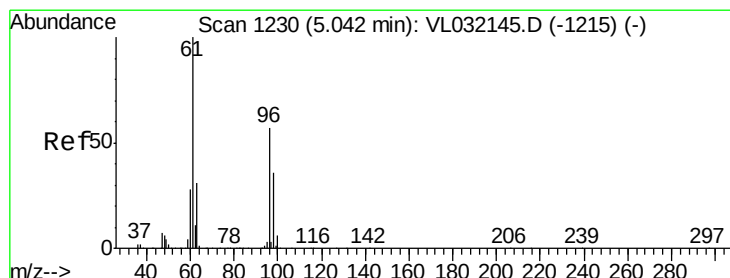
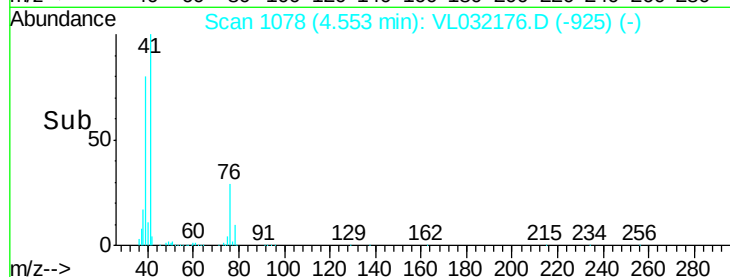
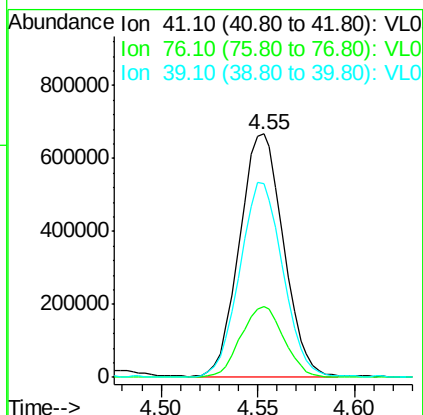
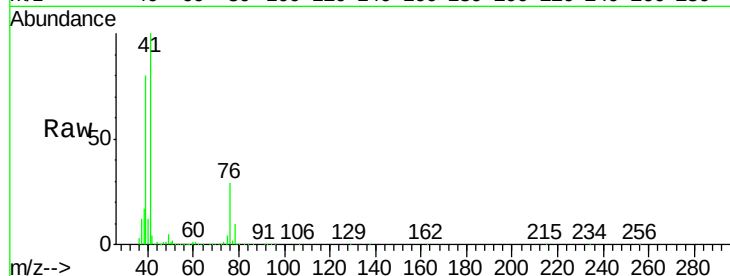




#21  
 Allyl Chloride  
 Concen: 8.999 ppbv  
 RT: 4.55 min Scan# 1078  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

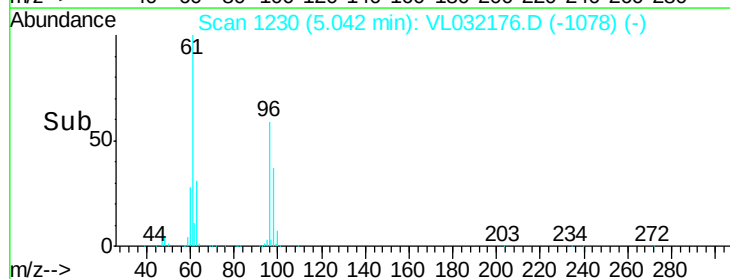
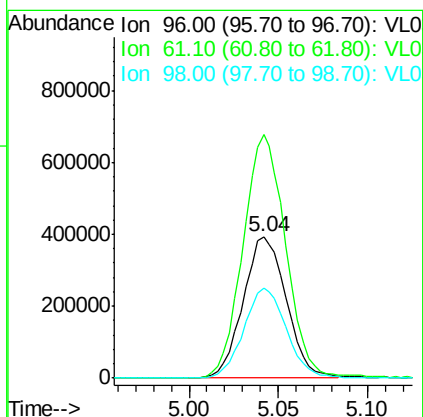
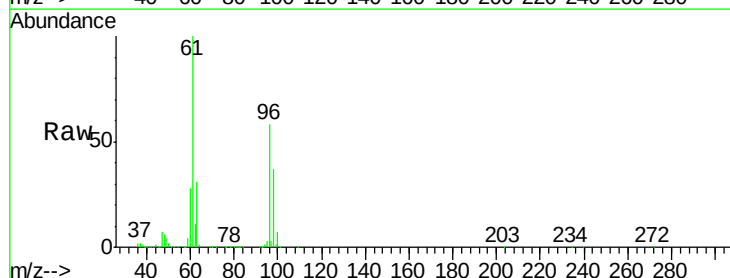
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

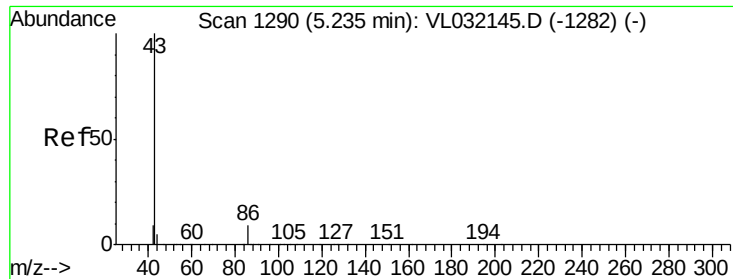
Tgt Ion: 41 Resp: 1050328  
 Ion Ratio Lower Upper  
 41 100  
 76 28.9 22.5 33.7  
 39 79.3 60.5 90.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.577 ppbv  
 RT: 5.04 min Scan# 1230  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Tgt Ion: 96 Resp: 664248  
 Ion Ratio Lower Upper  
 96 100  
 61 171.9 135.2 202.8  
 98 63.4 49.7 74.5



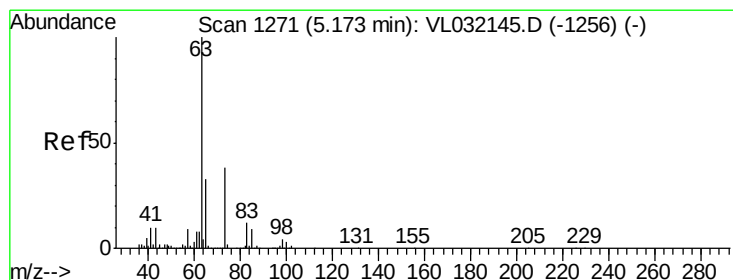
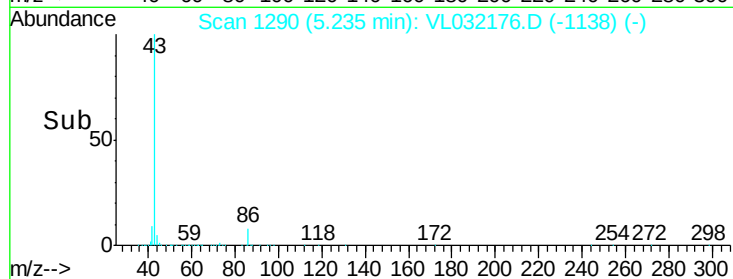
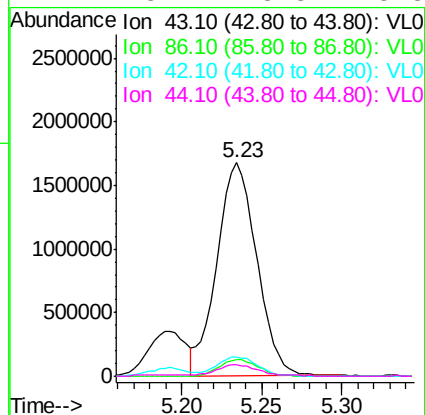
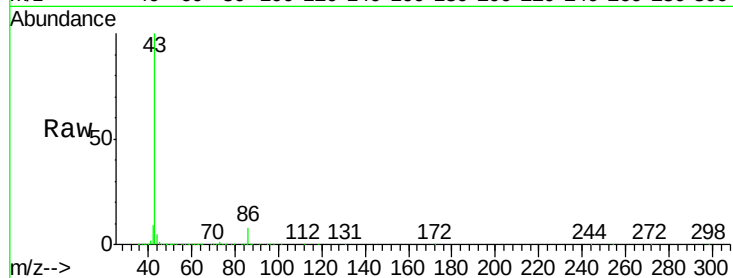


#23  
 Vinyl Acetate  
 Concen: 9.248 ppbv  
 RT: 5.23 min Scan# 1290  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 43 Resp: 2866530

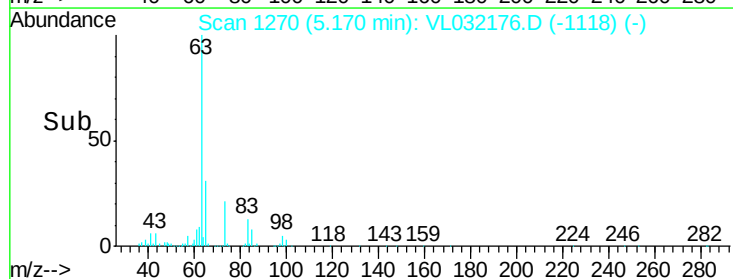
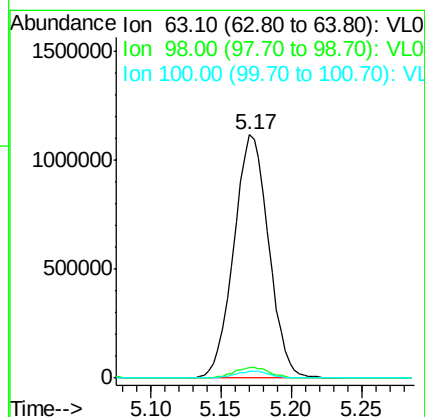
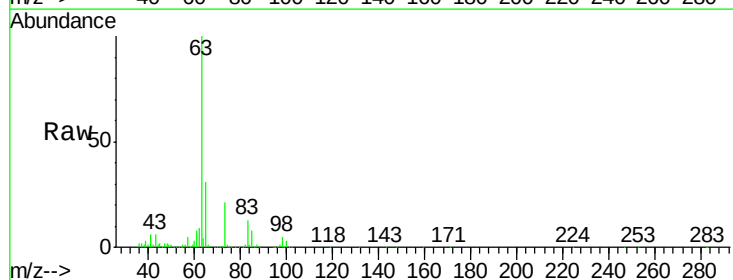
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 8.1   | 6.2   | 9.4   |
| 42  | 9.0   | 6.9   | 10.3  |
| 44  | 5.2   | 3.8   | 5.8   |

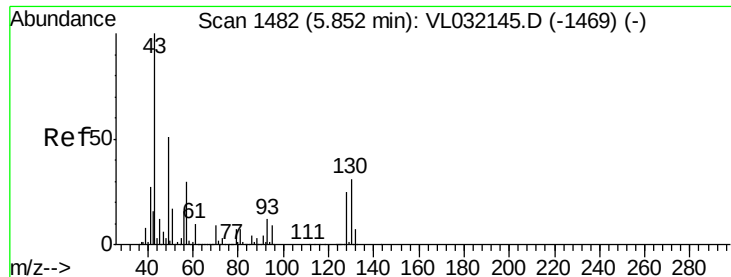


#24  
 1,1-Dichloroethane  
 Concen: 9.730 ppbv  
 RT: 5.17 min Scan# 1270  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Tgt Ion: 63 Resp: 1931958

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.5   | 2.4   | 7.2   |
| 100 | 2.6   | 1.7   | 5.0   |



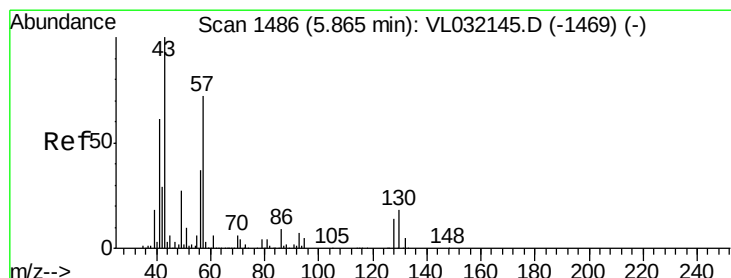
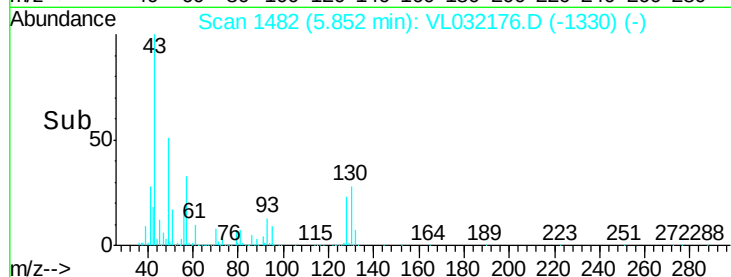
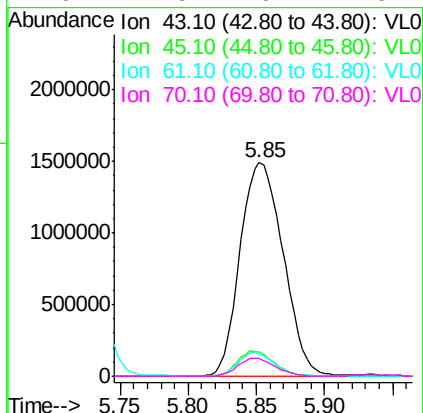
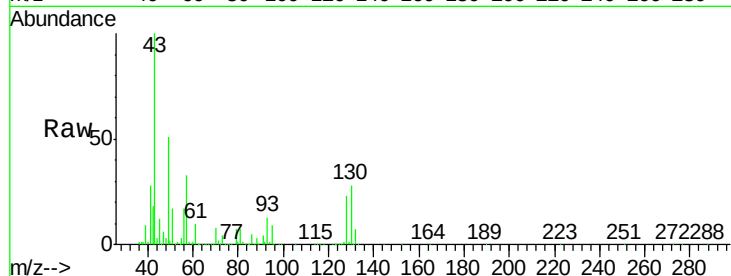


#25  
Ethyl Acetate  
Concen: 9.224 ppbv  
RT: 5.85 min Scan# 1482  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 3261935

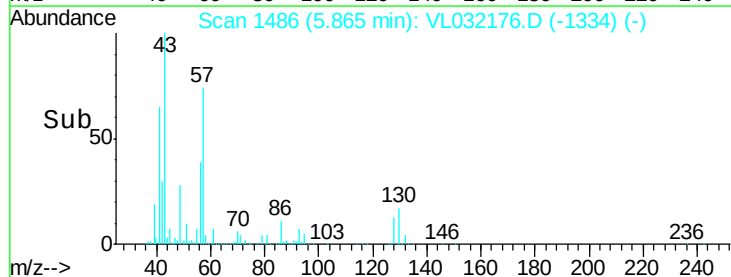
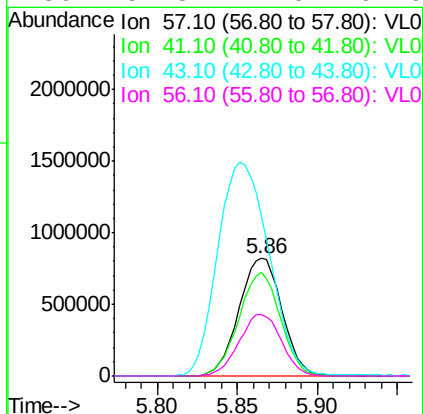
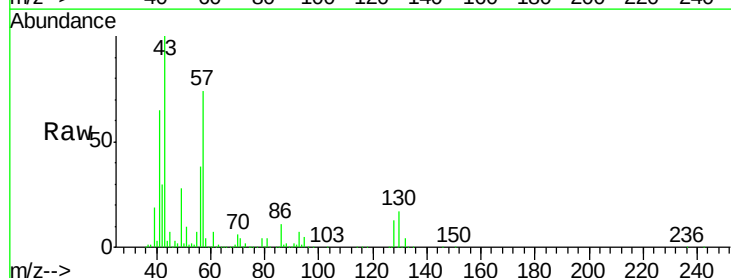
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.2  | 7.8   | 11.8  |
| 61  | 9.7   | 7.4   | 11.0  |
| 70  | 7.5   | 6.1   | 9.1   |



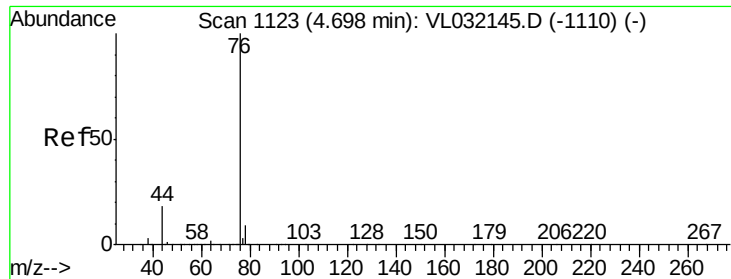
#26  
Hexane  
Concen: 9.228 ppbv  
RT: 5.86 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Tgt Ion: 57 Resp: 1502813

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 86.3  | 68.6  | 103.0 |
| 43  | 218.5 | 168.6 | 252.8 |
| 56  | 51.8  | 41.0  | 61.6  |



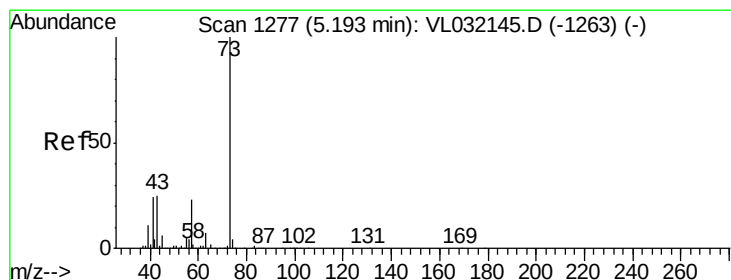
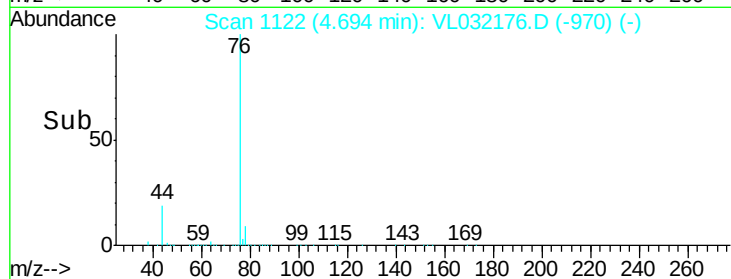
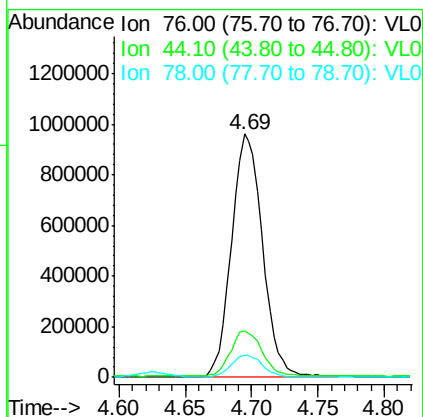
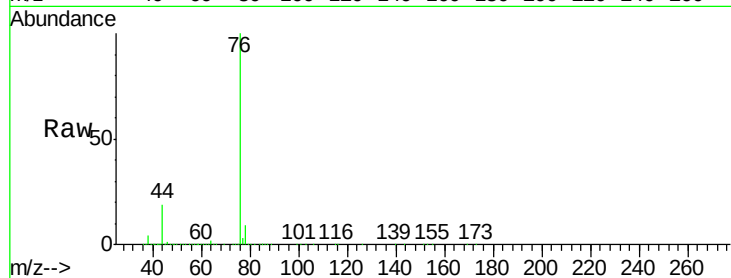




#27  
Carbon Disulfide  
Concen: 9.712 ppbv  
RT: 4.69 min Scan# 1122  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

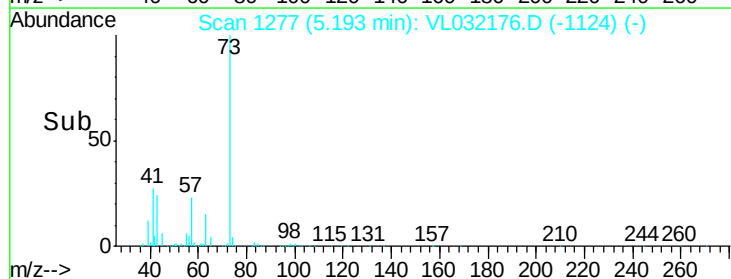
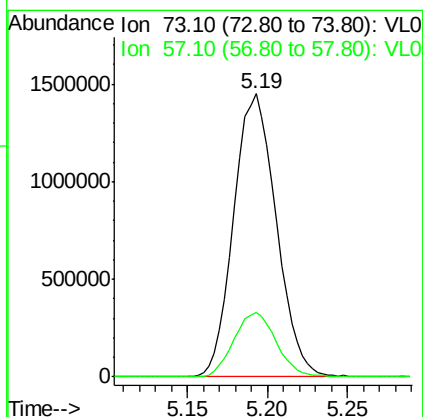
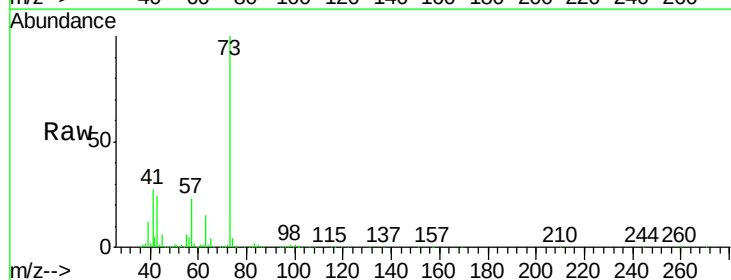
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

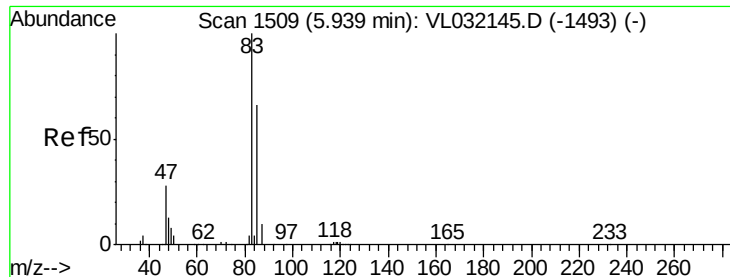
Tgt Ion: 76 Resp: 1572254  
Ion Ratio Lower Upper  
76 100  
44 19.2 15.1 22.7  
78 9.0 7.2 10.8



#28  
Methyl tert-Butyl Ether  
Concen: 9.146 ppbv  
RT: 5.19 min Scan# 1277  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Tgt Ion: 73 Resp: 2632405  
Ion Ratio Lower Upper  
73 100  
57 23.1 18.6 27.8

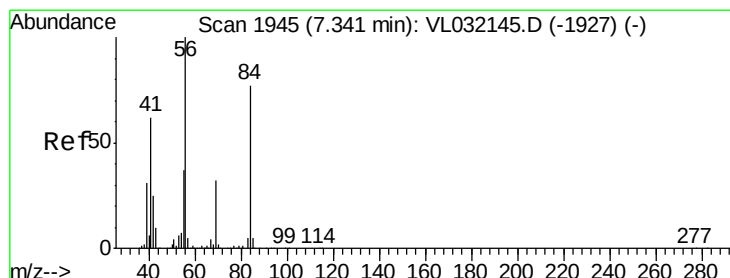
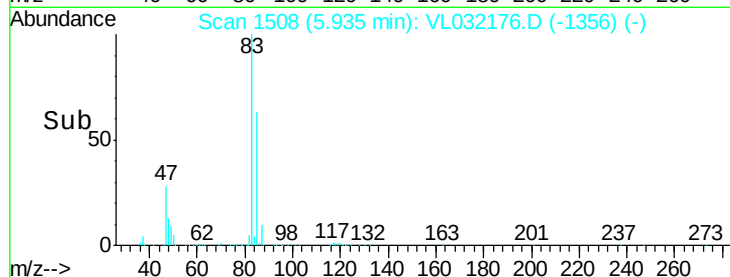
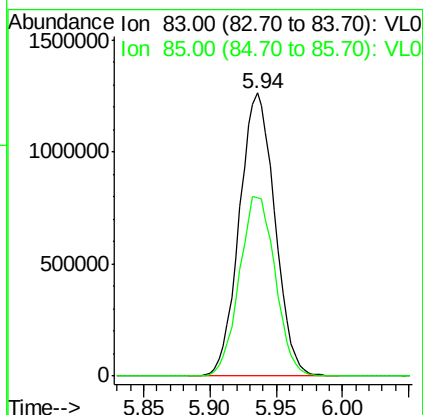
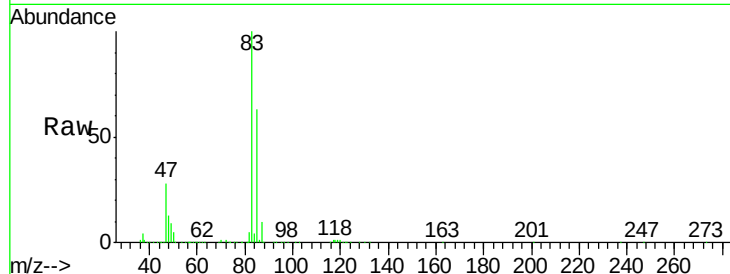




#29  
Chloroform  
Concen: 9.907 ppbv  
RT: 5.94 min Scan# 1508  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

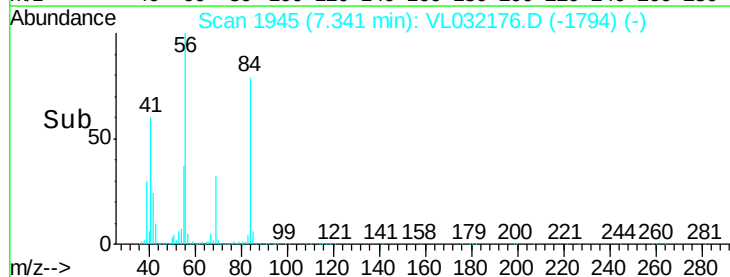
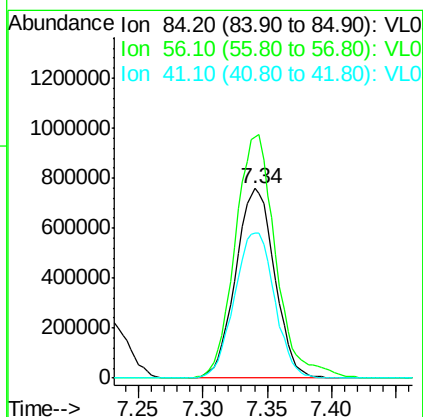
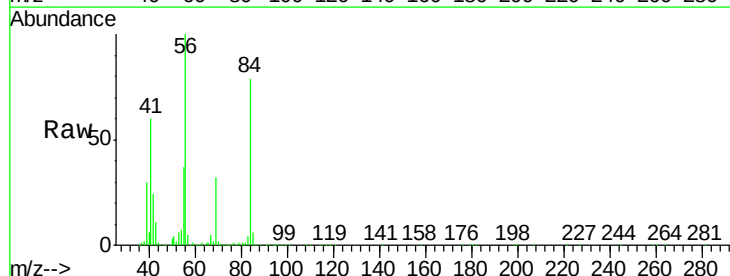
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

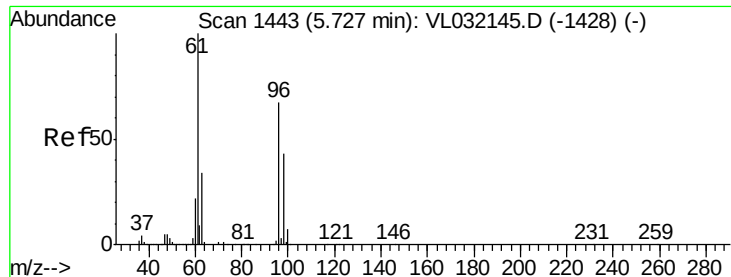
Tgt Ion: 83 Resp: 2348495  
Ion Ratio Lower Upper  
83 100  
85 62.8 51.6 77.4



#30  
Cyclohexane  
Concen: 10.414 ppbv  
RT: 7.34 min Scan# 1945  
Delta R.T. -0.02 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Tgt Ion: 84 Resp: 1598461  
Ion Ratio Lower Upper  
84 100  
56 134.0 109.1 163.7  
41 78.7 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 9.966 ppbv

RT: 5.72 min Scan# 1442

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

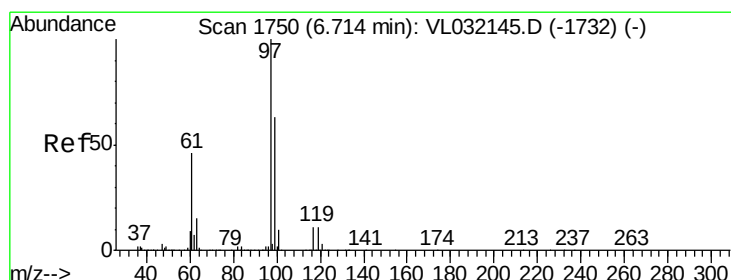
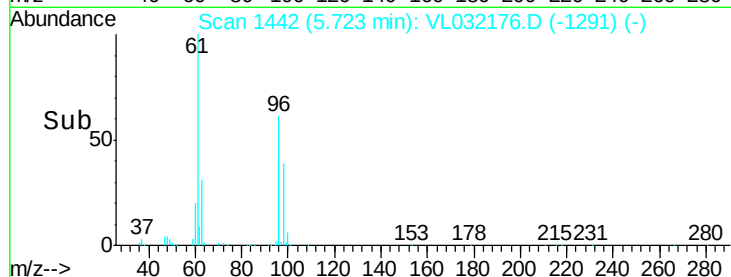
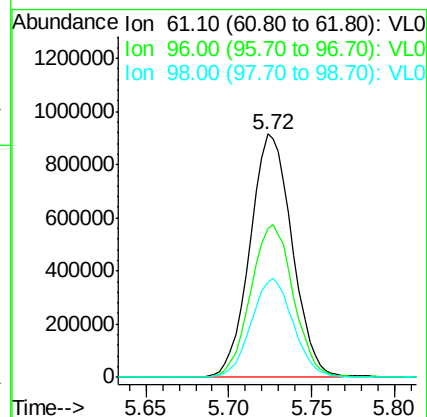
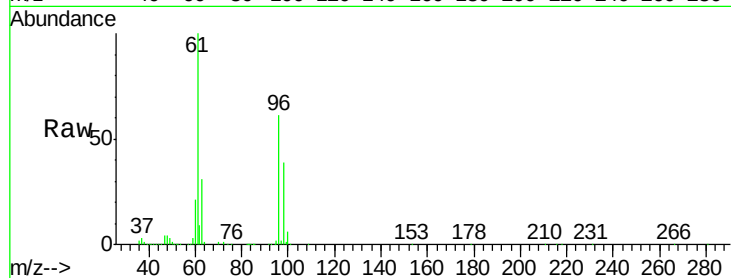
Tgt Ion: 61 Resp: 1621999

Ion Ratio Lower Upper

61 100

96 61.3 54.2 81.4

98 38.9 34.6 52.0



#32

1,1,1-Trichloroethane

Concen: 10.807 ppbv

RT: 6.71 min Scan# 1749

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

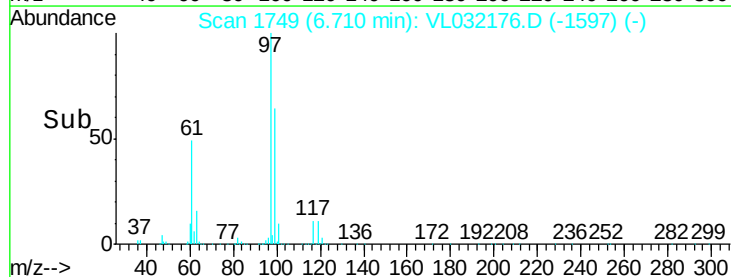
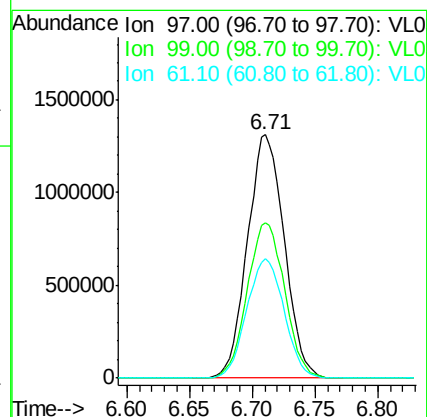
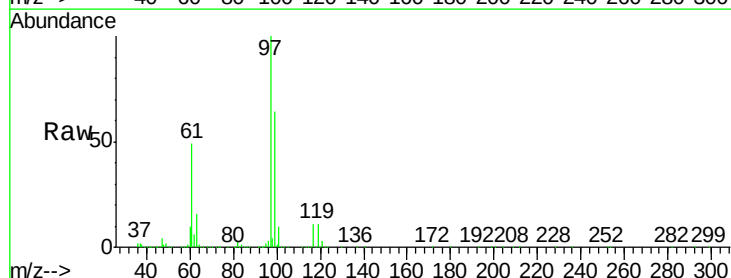
Tgt Ion: 97 Resp: 2685342

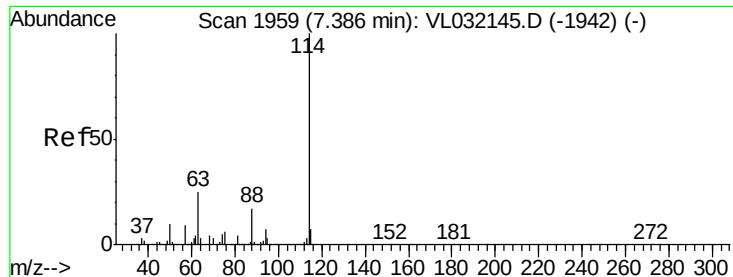
Ion Ratio Lower Upper

97 100

99 64.7 51.3 76.9

61 49.8 38.4 57.6

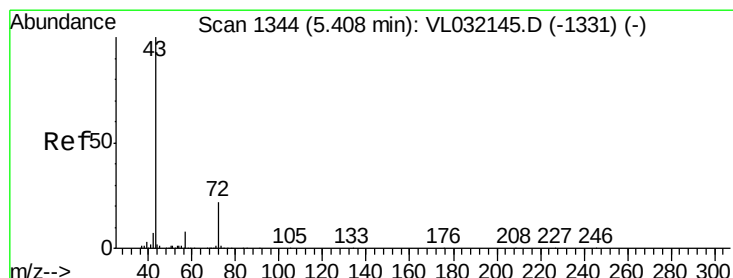
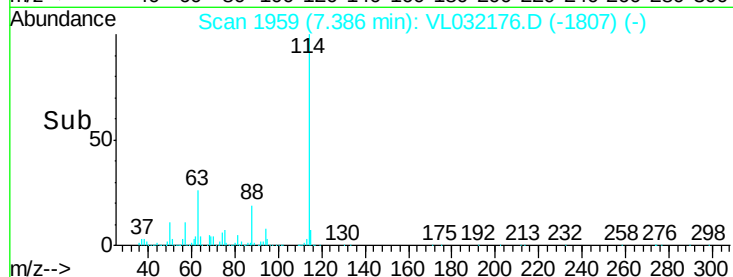
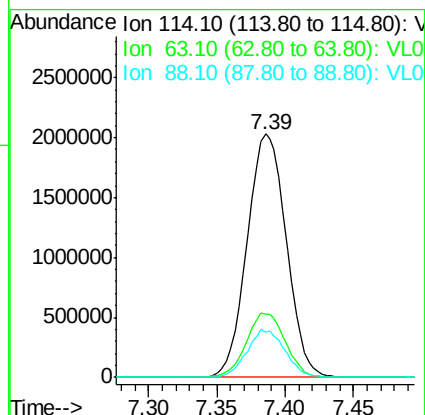
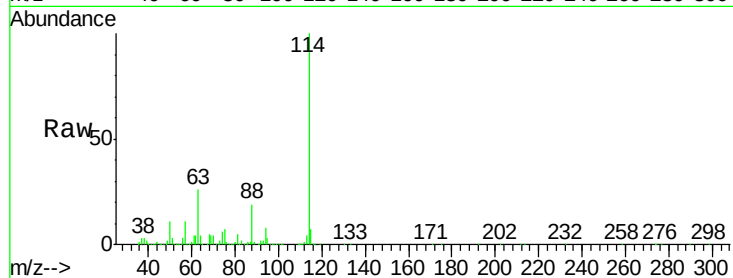




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.39 min Scan# 1959  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

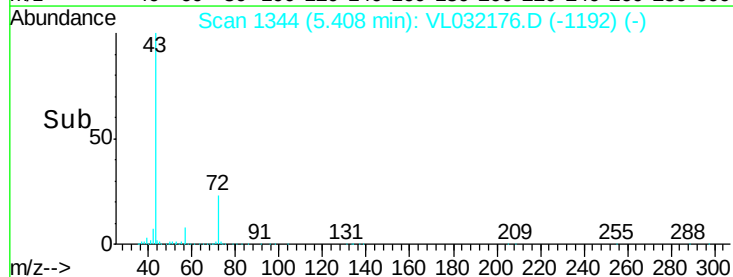
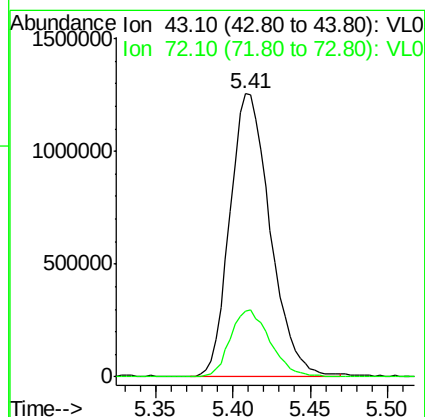
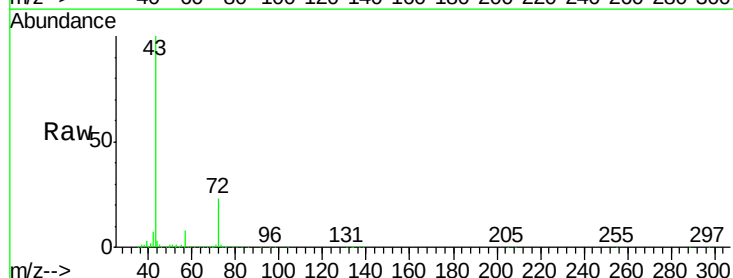
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

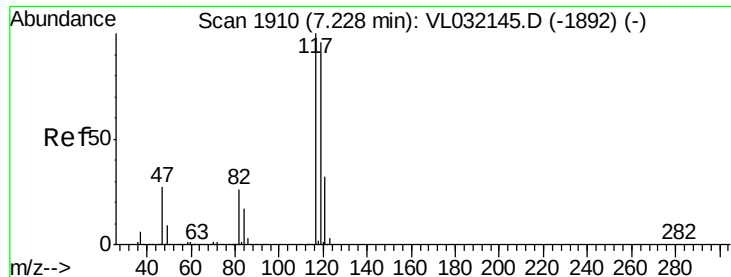
Tgt Ion:114 Resp: 4047441  
 Ion Ratio Lower Upper  
 114 100  
 63 26.7 19.1 28.7  
 88 19.0 13.9 20.9



#34  
 2-Butanone  
 Concen: 8.808 ppbv  
 RT: 5.41 min Scan# 1344  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Tgt Ion: 43 Resp: 2262691  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 18.4 27.6





#35

Carbon Tetrachloride

Concen: 9.595 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

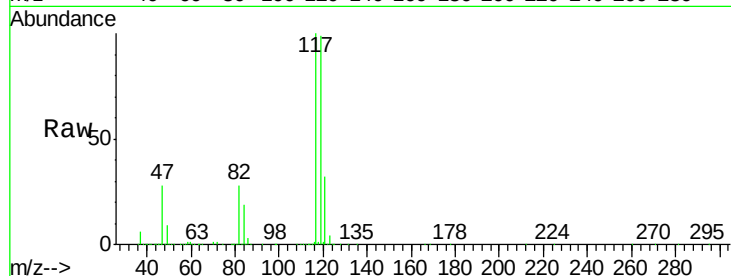
Tgt Ion:117 Resp: 2658383

Ion Ratio Lower Upper

117 100

119 99.1 74.8 112.2

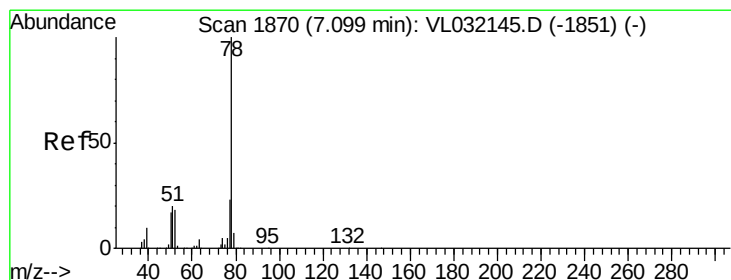
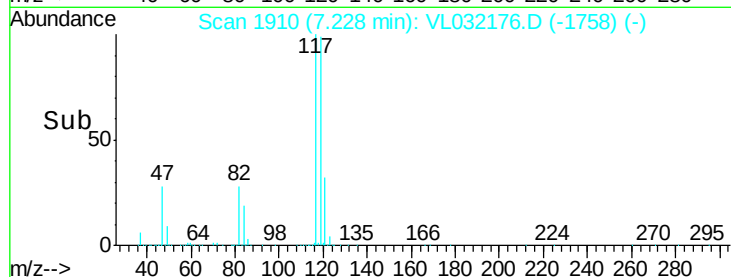
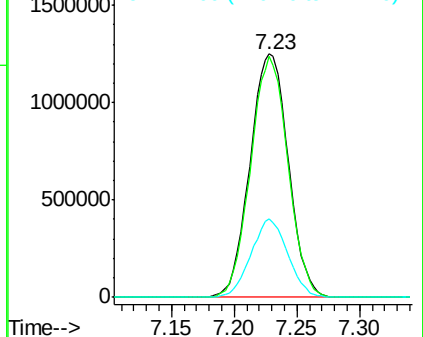
121 32.4 24.0 36.0



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: 9.820 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

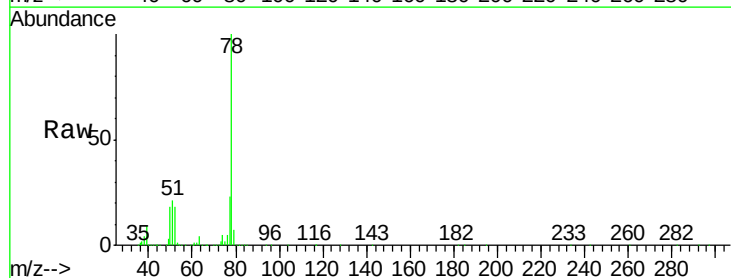
Tgt Ion: 78 Resp: 3847090

Ion Ratio Lower Upper

78 100

77 22.7 17.7 26.5

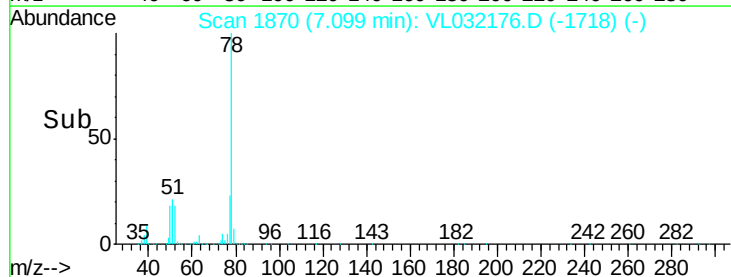
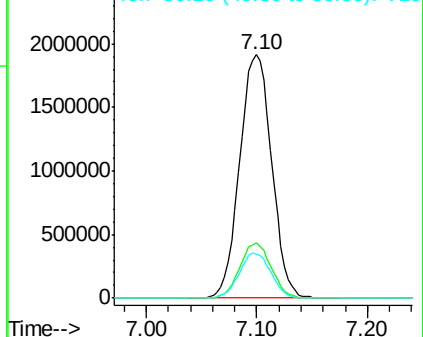
50 18.0 14.0 21.0

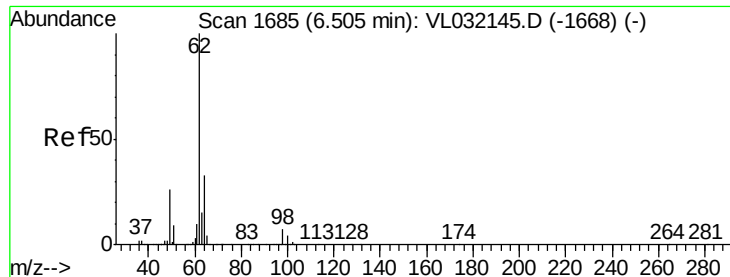


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

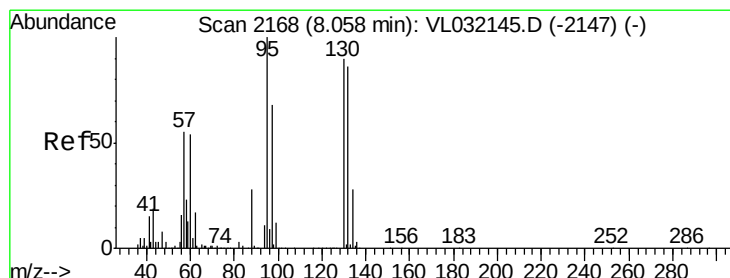
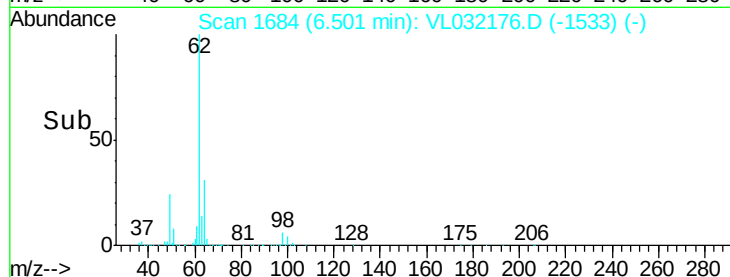
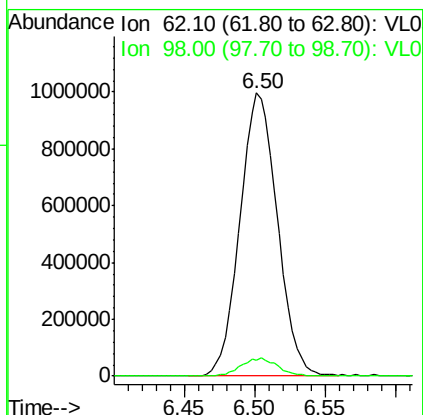
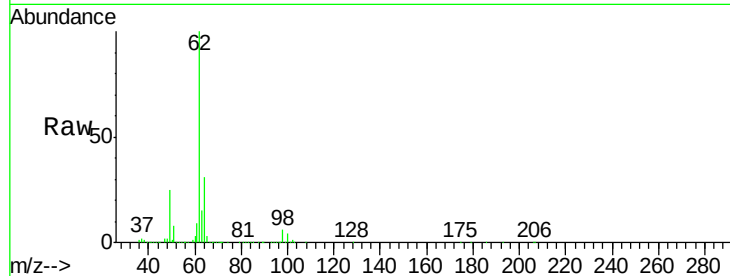




#37  
 1,2-Dichloroethane  
 Concen: 9.502 ppbv  
 RT: 6.50 min Scan# 1684  
 Delta R.T. -0.02 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

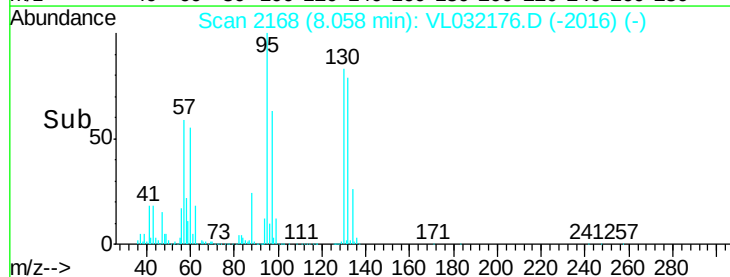
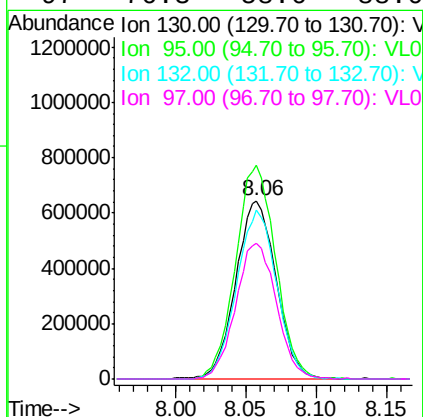
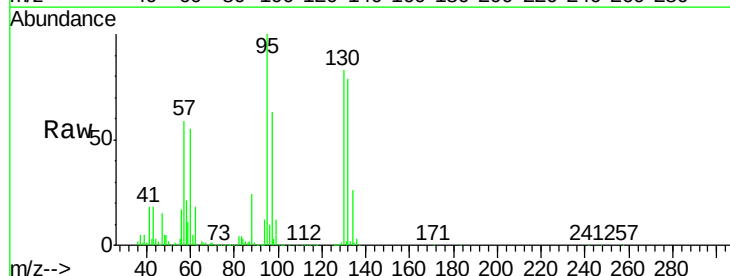
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

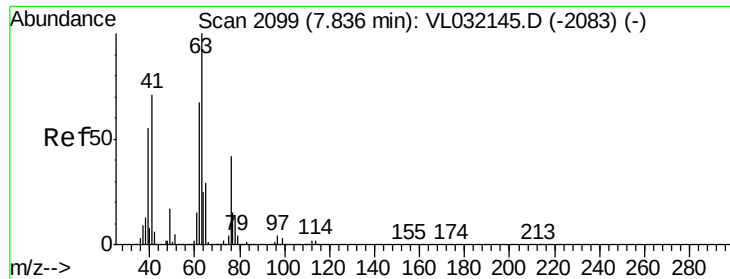
Tgt Ion: 62 Resp: 1854445  
 Ion Ratio Lower Upper  
 62 100  
 98 6.3 5.8 8.6



#38  
 Trichloroethene  
 Concen: 8.346 ppbv  
 RT: 8.06 min Scan# 2168  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Tgt Ion: 130 Resp: 1277201  
 Ion Ratio Lower Upper  
 130 100  
 95 120.1 88.1 132.1  
 132 95.2 74.6 112.0  
 97 76.3 58.6 88.0





#39

1,2-Dichloropropane

Concen: 9.590 ppbv

RT: 7.83 min Scan# 2098

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

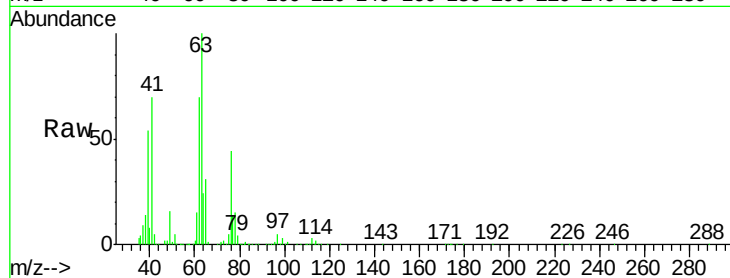
Tgt Ion: 63 Resp: 1481719

Ion Ratio Lower Upper

63 100

41 70.3 53.3 79.9

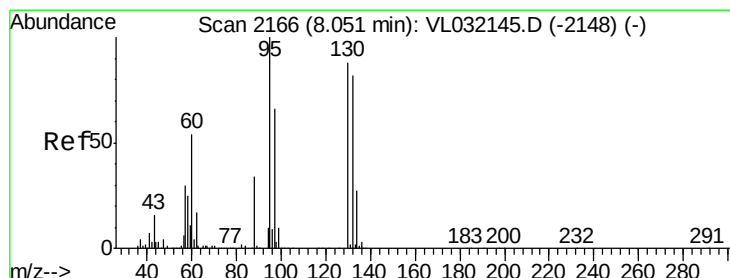
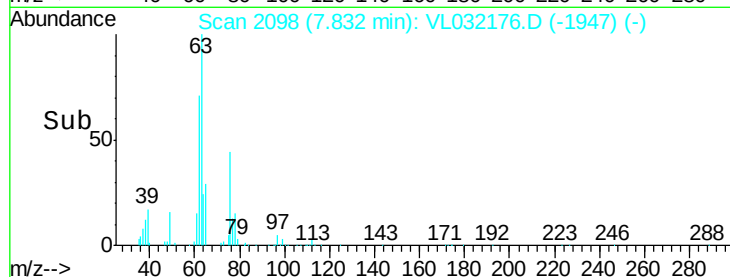
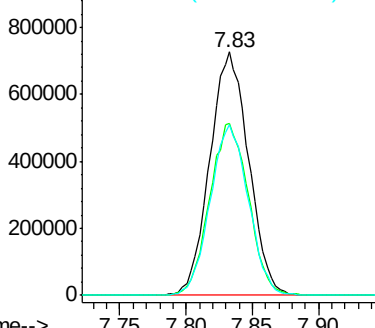
62 69.8 54.8 82.2



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: 8.451 ppbv

RT: 8.05 min Scan# 2166

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Tgt Ion: 88 Resp: 512042

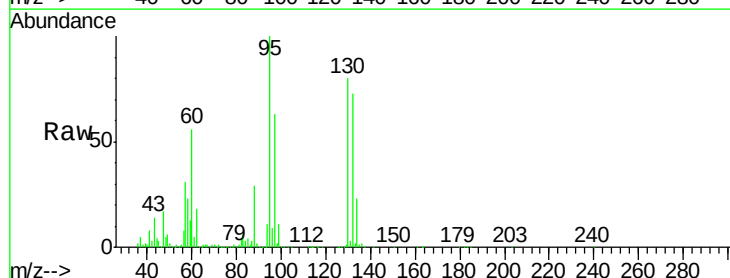
Ion Ratio Lower Upper

88 100

58 134.0 47.4 71.0#

43 266.5 0.0 0.0#

57 1217.7 0.0 0.0#

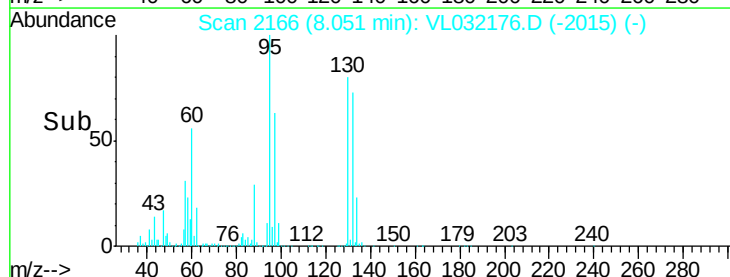
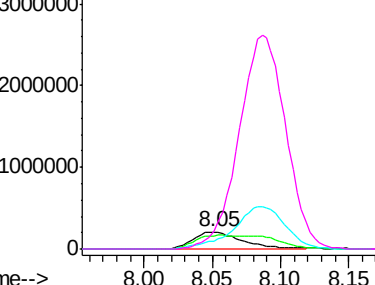


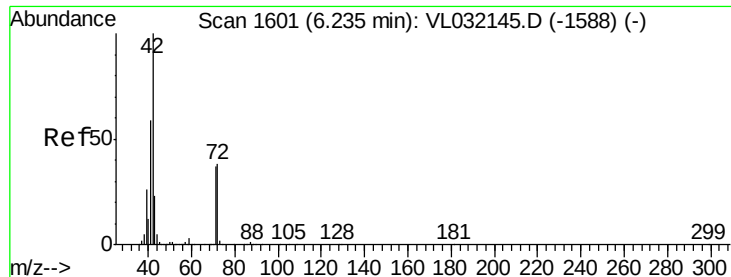
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

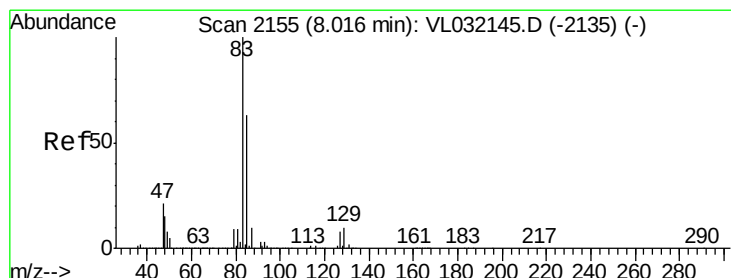
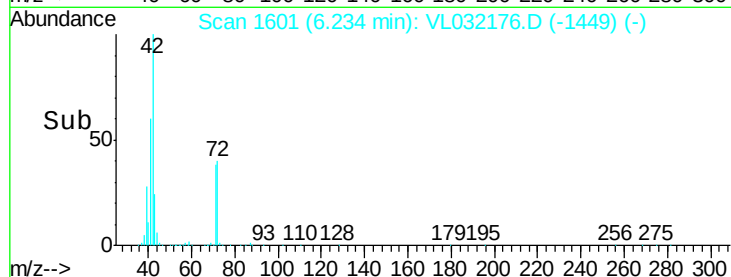
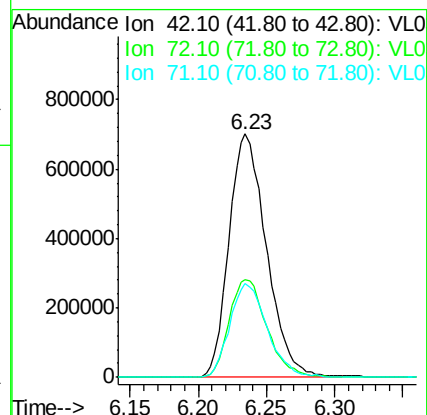
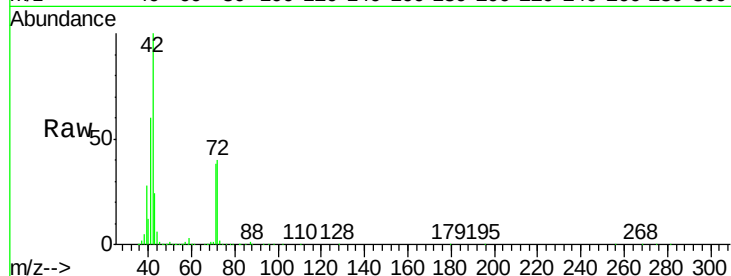




#41  
Tetrahydrofuran  
Concen: 8.690 ppbv  
RT: 6.23 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

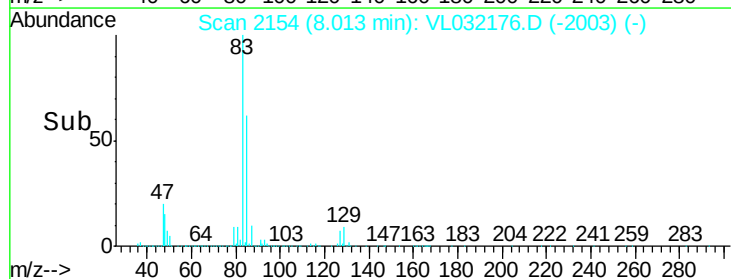
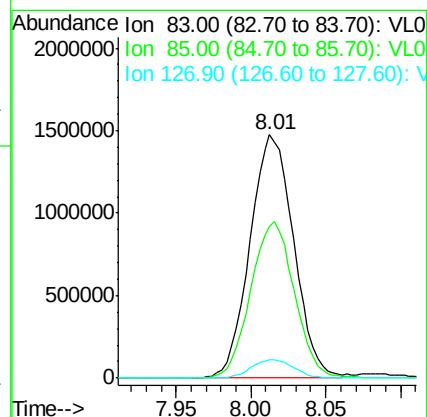
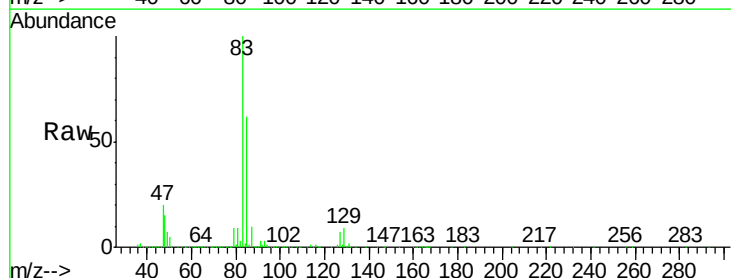
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 42 Resp: 1338170  
Ion Ratio Lower Upper  
42 100  
72 40.7 31.1 46.7  
71 38.7 29.5 44.3

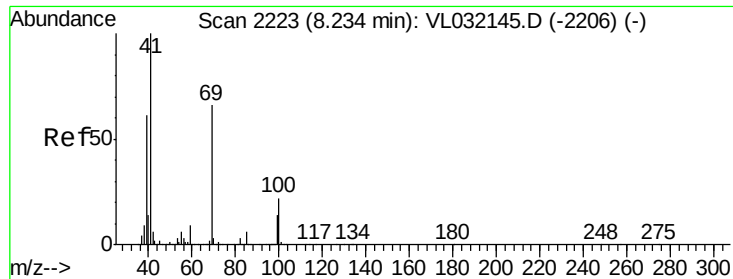


#42  
Bromodichloromethane  
Concen: 9.782 ppbv  
RT: 8.01 min Scan# 2154  
Delta R.T. -0.02 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Tgt Ion: 83 Resp: 2992374  
Ion Ratio Lower Upper  
83 100  
85 62.2 52.6 79.0  
127 7.3 6.5 9.7







#43

Methyl Methacrylate

Concen: 9.810 ppbv

RT: 8.23 min Scan# 2223

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

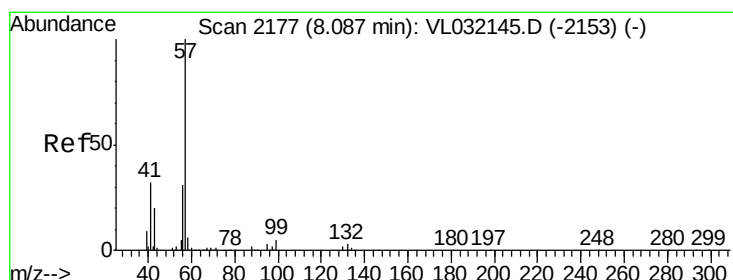
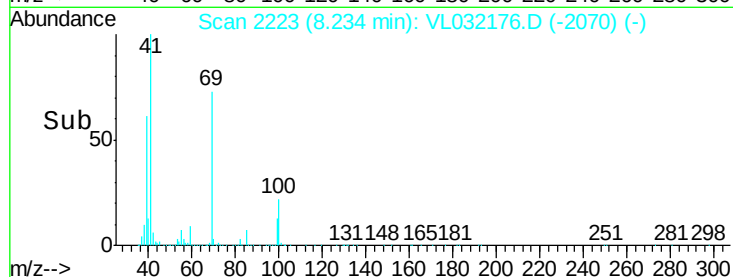
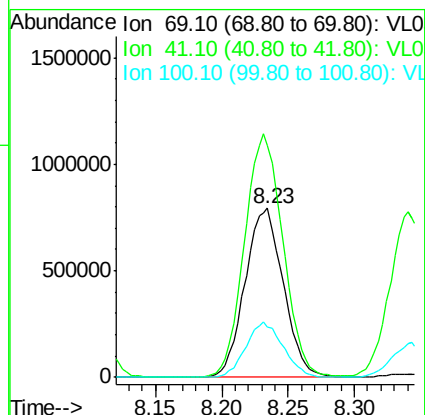
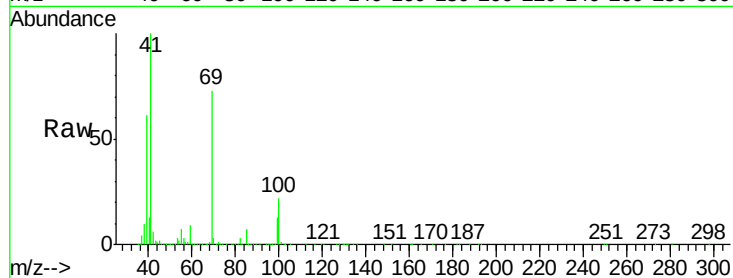
Tgt Ion: 69 Resp: 1593007

Ion Ratio Lower Upper

69 100

41 144.3 118.2 177.4

100 32.1 27.4 41.2



#44

2,2,4-Trimethylpentane

Concen: 9.076 ppbv

RT: 8.09 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

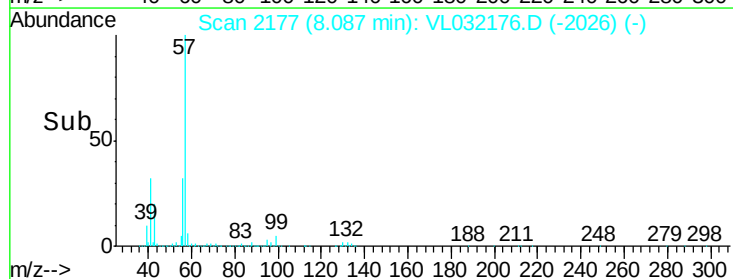
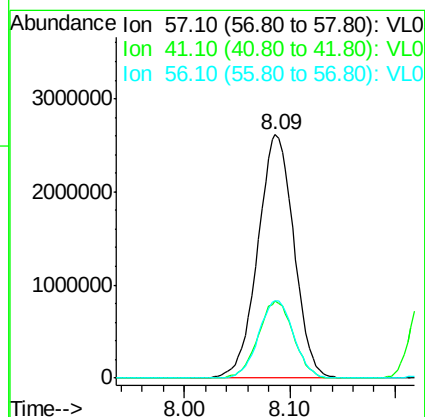
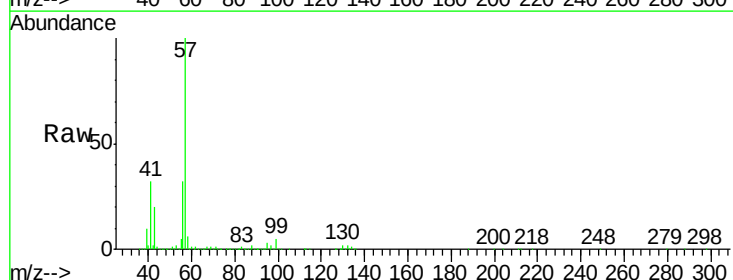
Tgt Ion: 57 Resp: 6220701

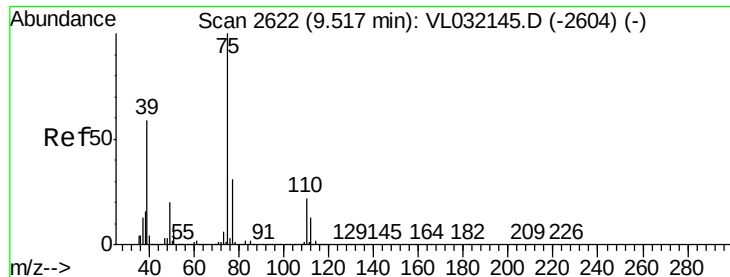
Ion Ratio Lower Upper

57 100

41 31.1 24.3 36.5

56 31.2 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 9.842 ppbv

RT: 9.51 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampled :

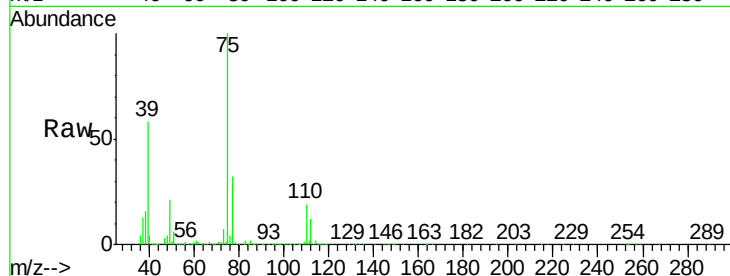
VSTDCCC010

Tgt Ion: 75 Resp: 1980129

Ion Ratio Lower Upper

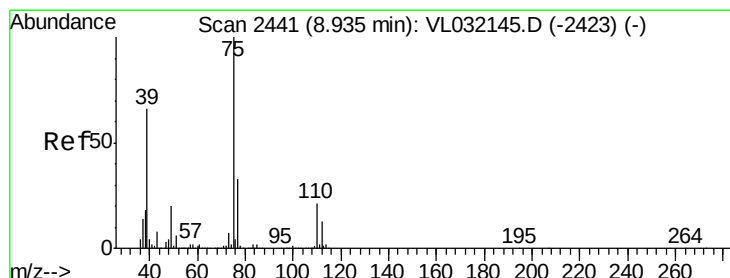
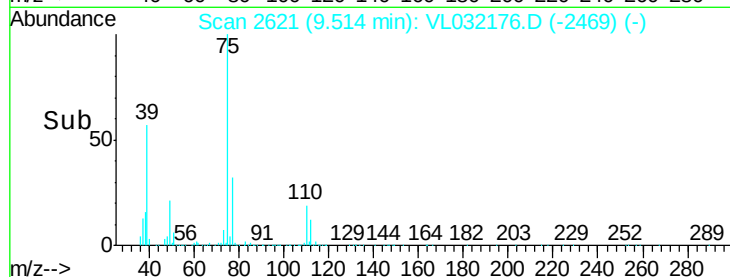
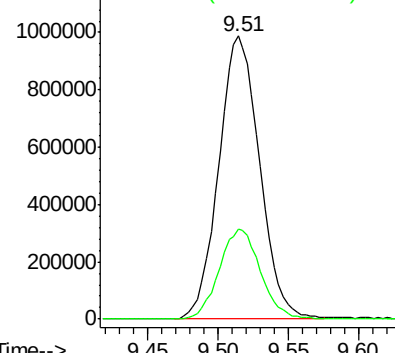
75 100

77 31.8 25.6 38.4



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: 9.677 ppbv

RT: 8.93 min Scan# 2440

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

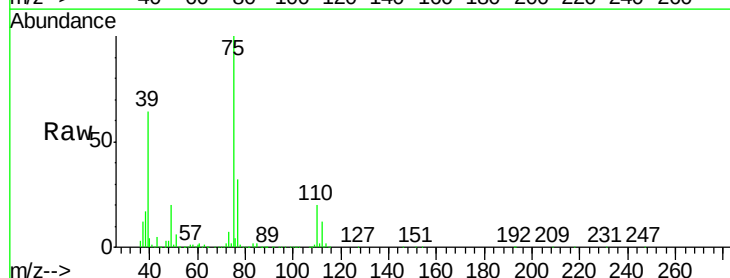
Tgt Ion: 75 Resp: 2324594

Ion Ratio Lower Upper

75 100

39 64.2 51.9 77.9

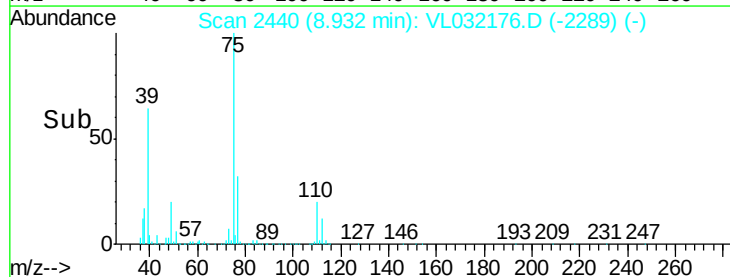
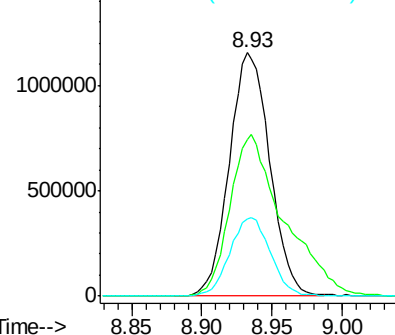
77 31.7 24.3 36.5

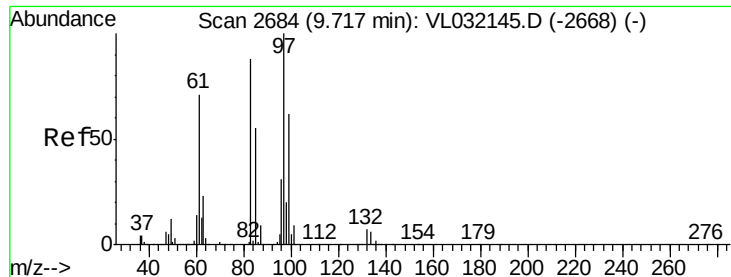


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 9.276 ppbv

RT: 9.72 min Scan# 2684

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 1489713

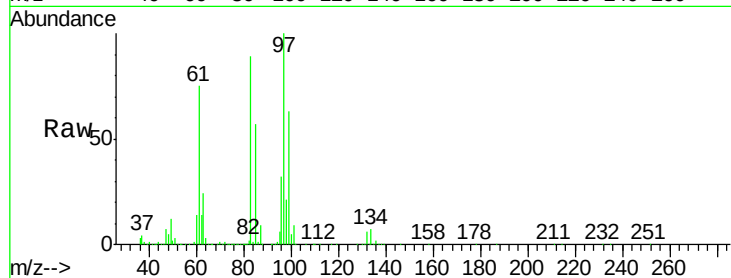
Ion Ratio Lower Upper

97 100

83 88.5 71.0 106.4

85 57.1 44.2 66.4

99 62.7 49.2 73.8

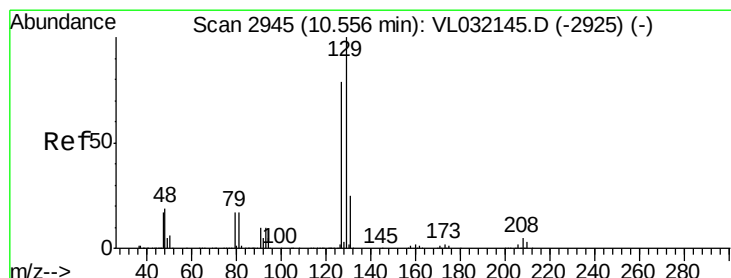
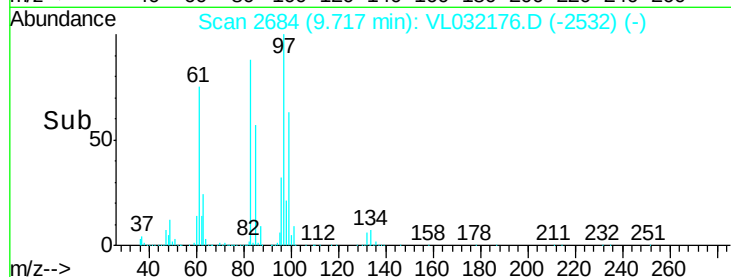
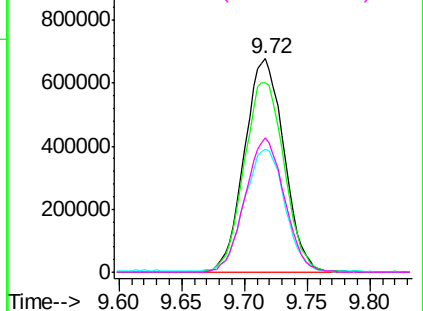


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.407 ppbv

RT: 10.56 min Scan# 2945

Delta R.T. -0.02 min

Lab File: VL032176.D

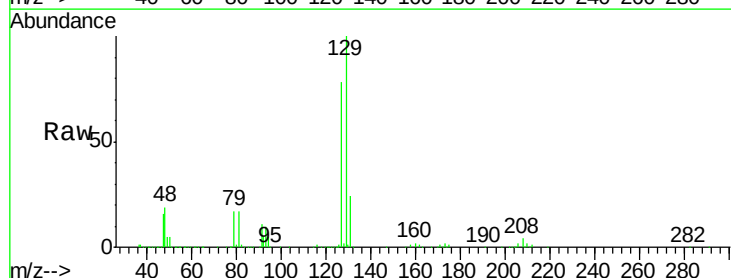
Acq: 2 Jul 2018 10:00

Tgt Ion: 129 Resp: 2338642

Ion Ratio Lower Upper

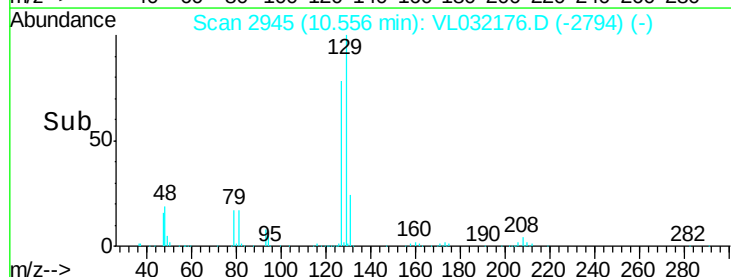
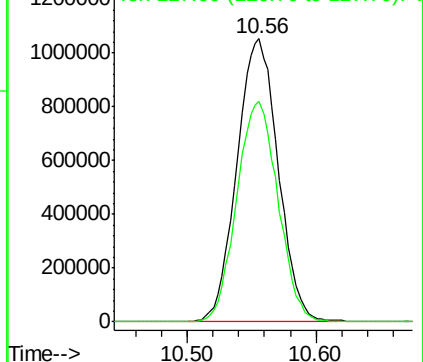
129 100

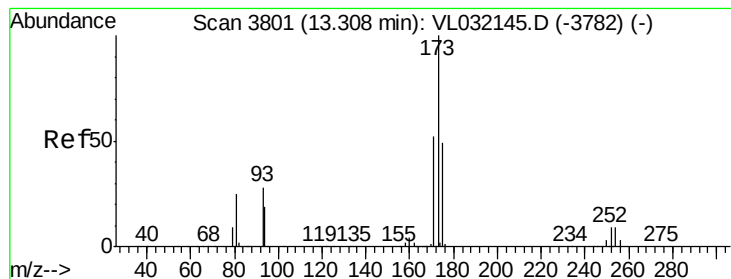
127 78.2 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.032 ppbv

RT: 13.30 min Scan# 3800

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

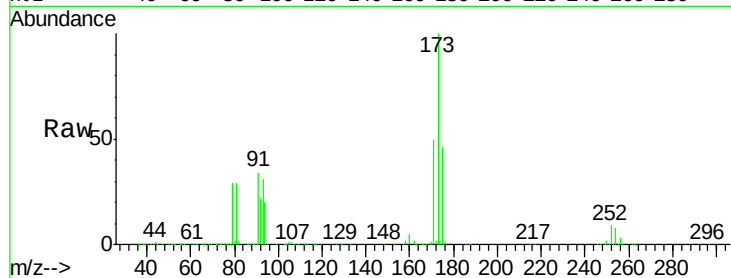
MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:173 Resp: 1880307

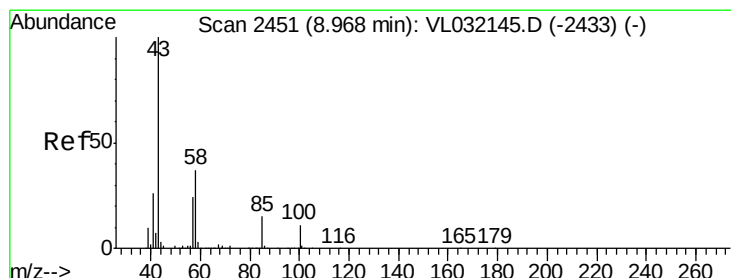
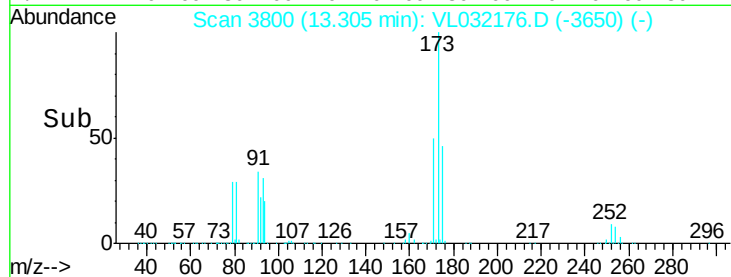
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 49.1  | 39.4  | 59.0  |
| 171 | 52.4  | 41.8  | 62.8  |



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: 9.149 ppbv

RT: 8.97 min Scan# 2451

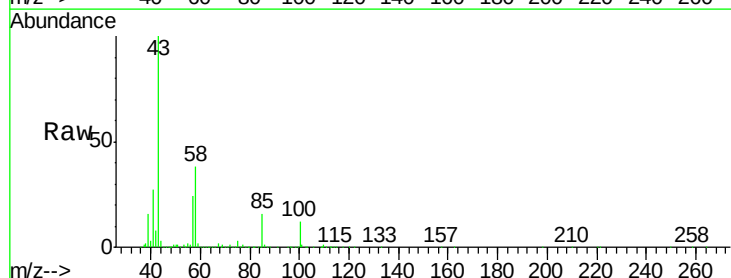
Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

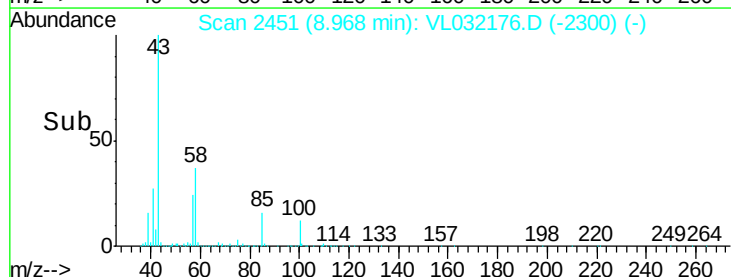
Tgt Ion: 43 Resp: 3850309

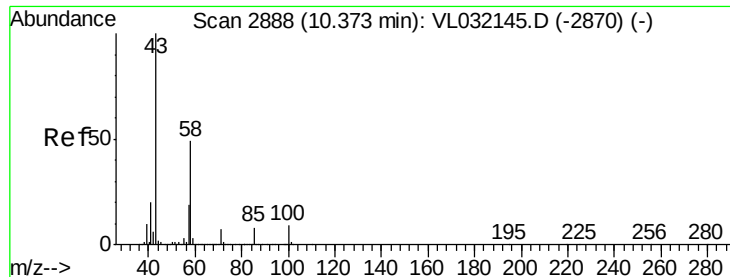
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 37.3  | 29.8  | 44.6  |



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

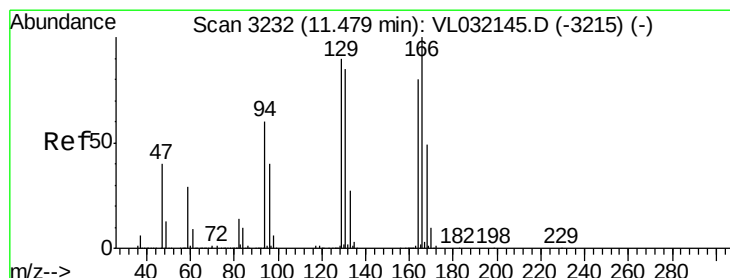
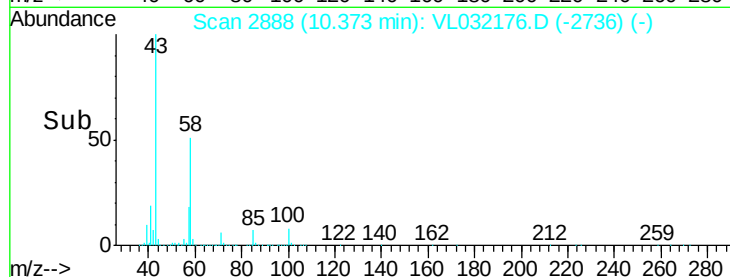
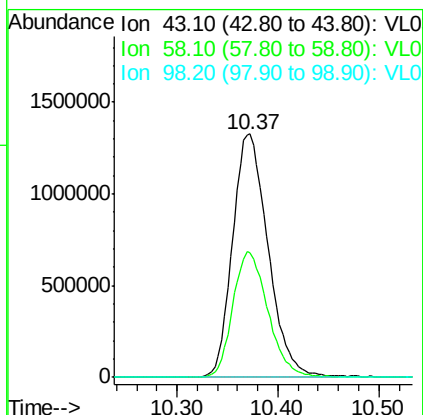
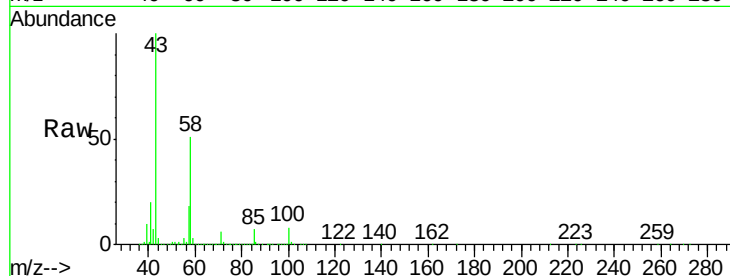




#51  
2-Hexanone  
Concen: 9.300 ppbv  
RT: 10.37 min Scan# 2888  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

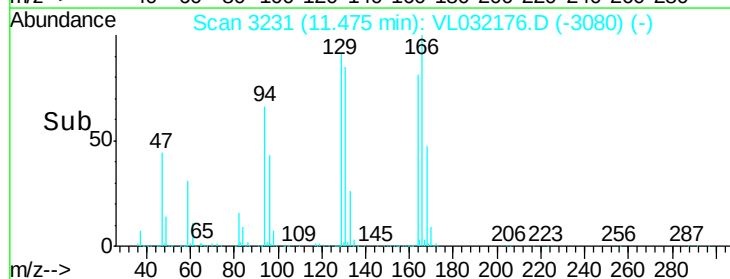
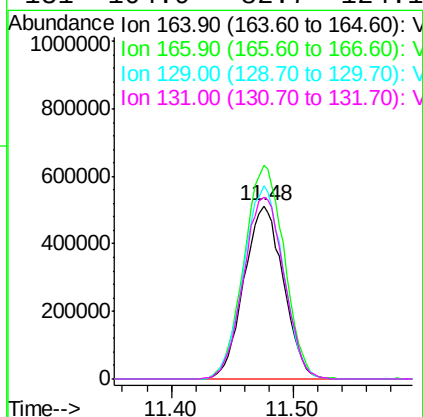
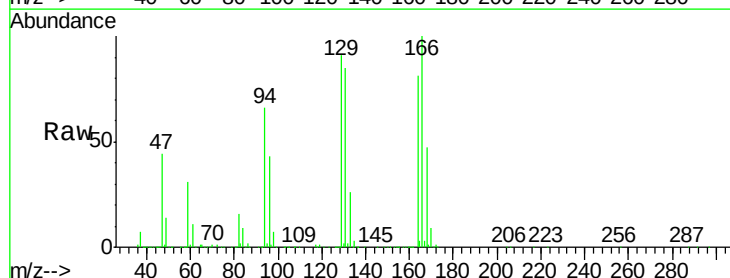
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

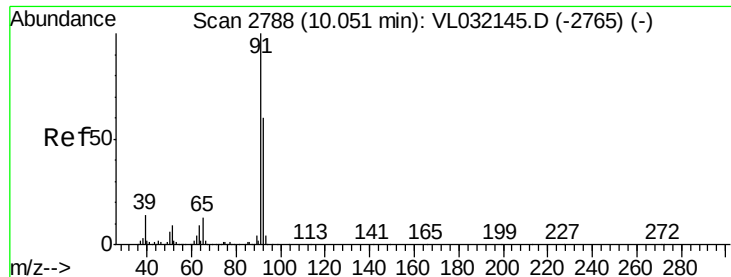
Tgt Ion: 43 Resp: 3244348  
Ion Ratio Lower Upper  
43 100  
58 51.1 40.6 60.8  
98 0.2 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.021 ppbv  
RT: 11.48 min Scan# 3231  
Delta R.T. -0.02 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Tgt Ion: 164 Resp: 1142621  
Ion Ratio Lower Upper  
164 100  
166 123.2 100.6 151.0  
129 111.8 84.0 126.0  
131 104.9 82.7 124.1





#53

Toluene

Concen: 9.182 ppbv

RT: 10.05 min Scan# 2787

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

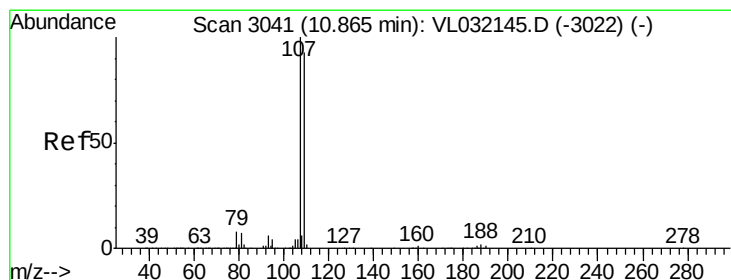
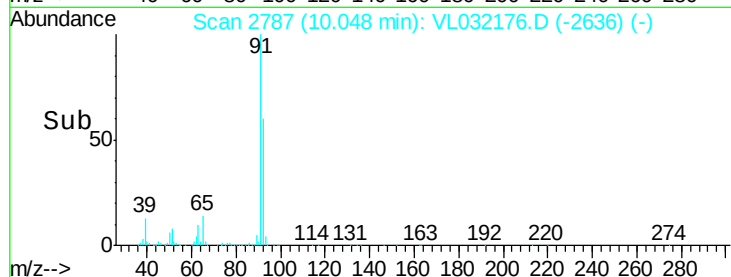
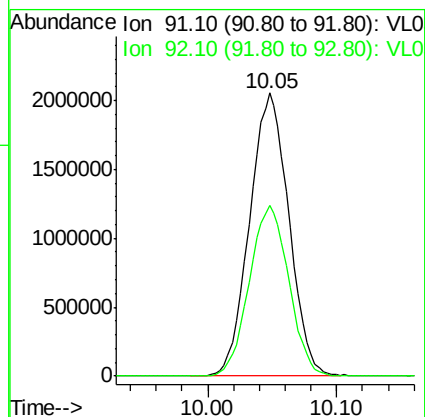
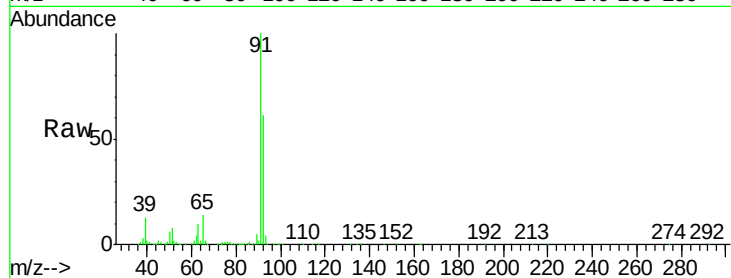
VSTDCCC010

Tgt Ion: 91 Resp: 4347640

Ion Ratio Lower Upper

91 100

92 60.8 49.2 73.8



#54

1,2-Dibromoethane

Concen: 9.308 ppbv

RT: 10.86 min Scan# 3041

Delta R.T. -0.01 min

Lab File: VL032176.D

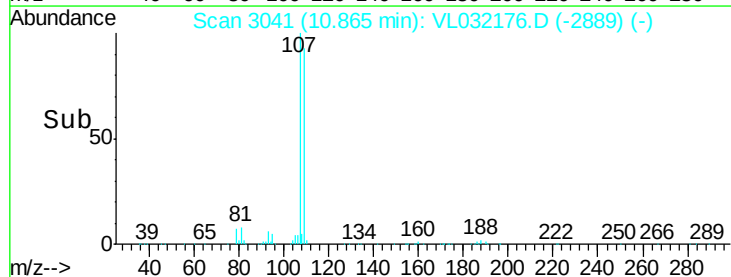
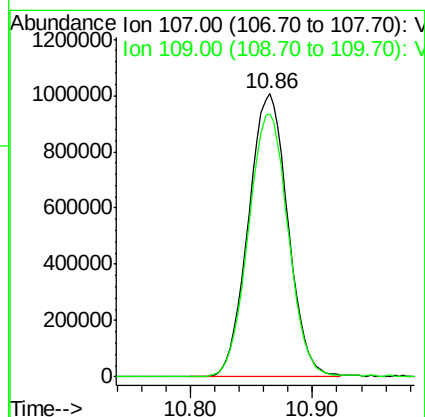
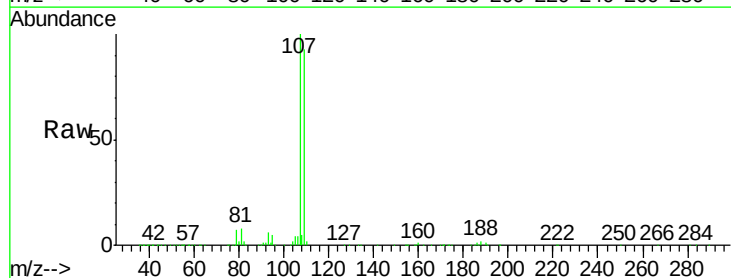
Acq: 2 Jul 2018 10:00

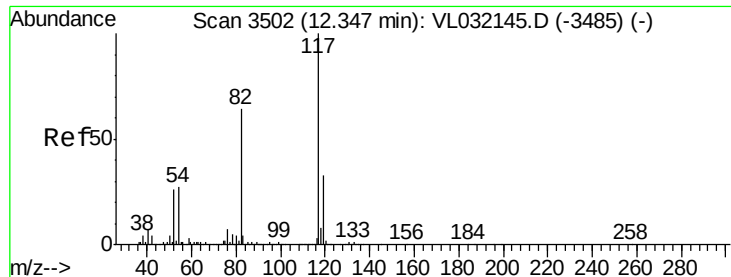
Tgt Ion: 107 Resp: 2247032

Ion Ratio Lower Upper

107 100

109 92.7 75.0 112.4

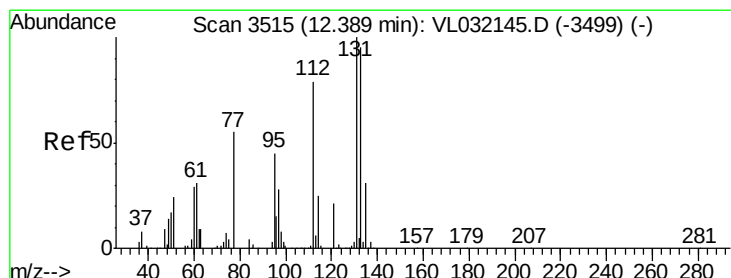
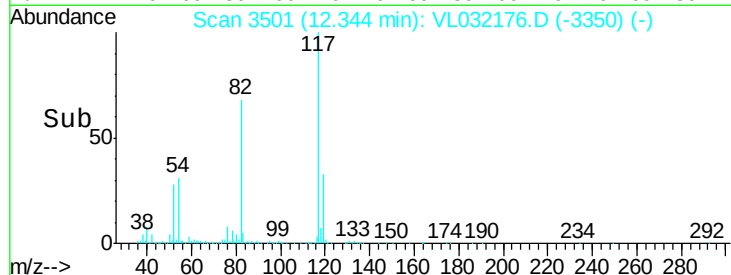
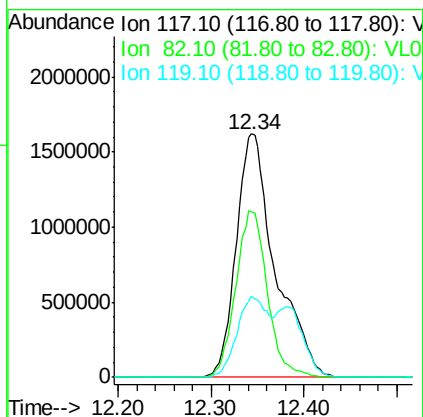
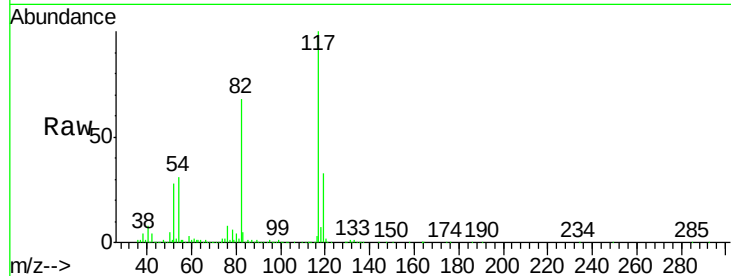




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.34 min Scan# 3501  
Delta R.T. -0.02 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

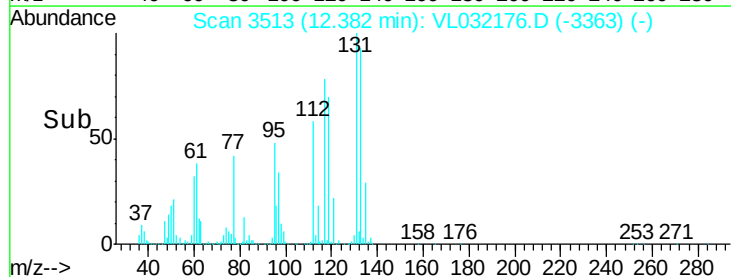
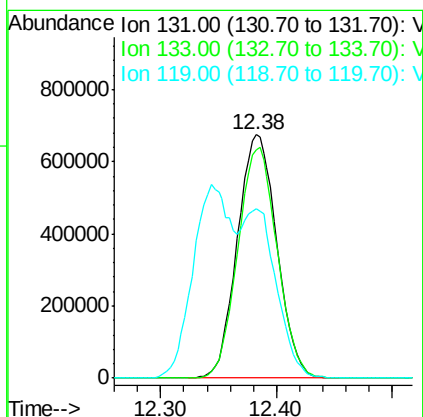
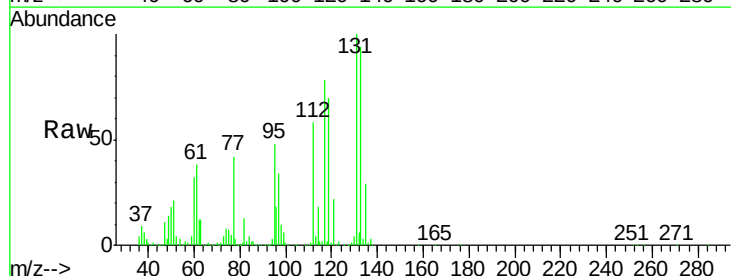
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

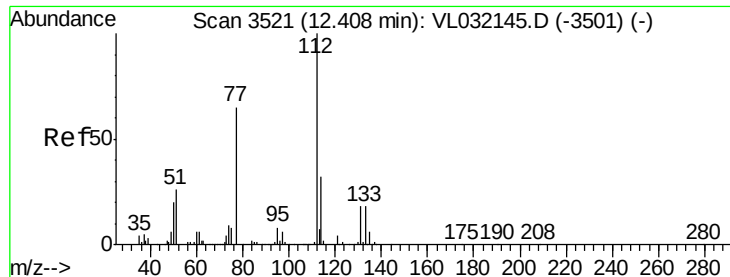
Tgt Ion:117 Resp: 4742765  
Ion Ratio Lower Upper  
117 100  
82 55.2 47.8 71.8  
119 47.4 43.3 64.9



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.511 ppbv  
RT: 12.38 min Scan# 3513  
Delta R.T. -0.02 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Tgt Ion:131 Resp: 1590508  
Ion Ratio Lower Upper  
131 100  
133 94.9 75.5 113.3  
119 141.2 118.4 177.6





#57

Chlorobenzene

Concen: 7.474 ppbv

RT: 12.40 min Scan# 3520

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

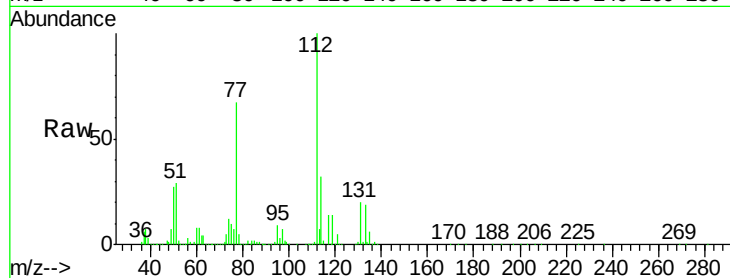
Tgt Ion: 112 Resp: 3069801

Ion Ratio Lower Upper

112 100

77 67.2 52.6 78.8

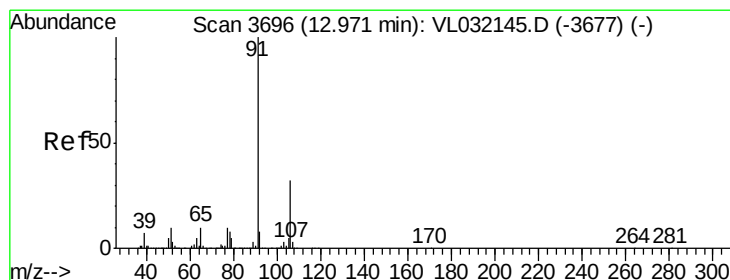
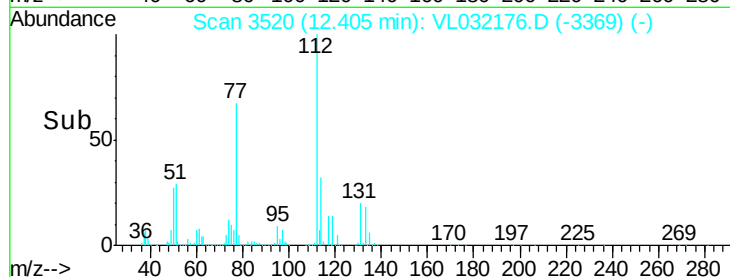
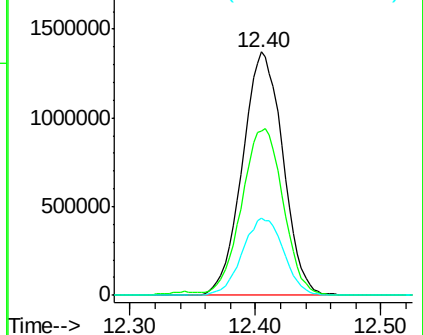
114 31.9 27.9 34.1



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: 7.558 ppbv

RT: 12.97 min Scan# 3695

Delta R.T. -0.02 min

Lab File: VL032176.D

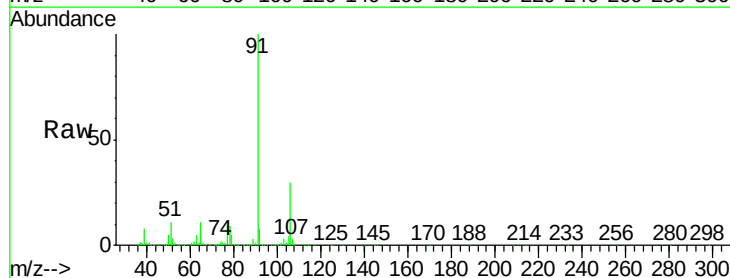
Acq: 2 Jul 2018 10:00

Tgt Ion: 91 Resp: 5776576

Ion Ratio Lower Upper

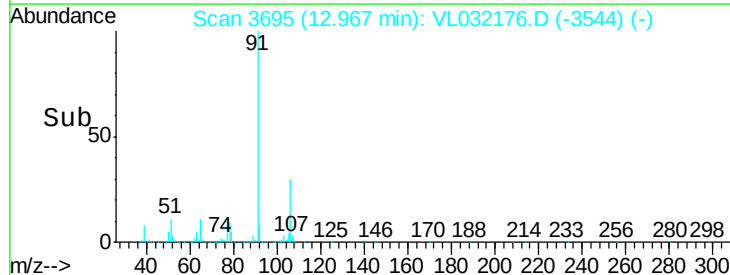
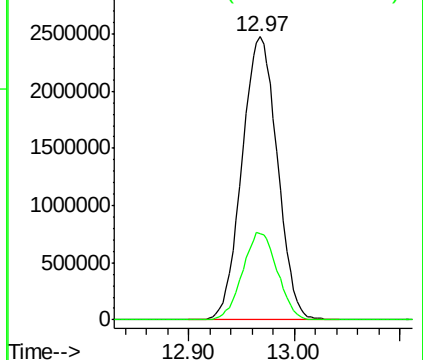
91 100

106 30.3 26.5 39.7

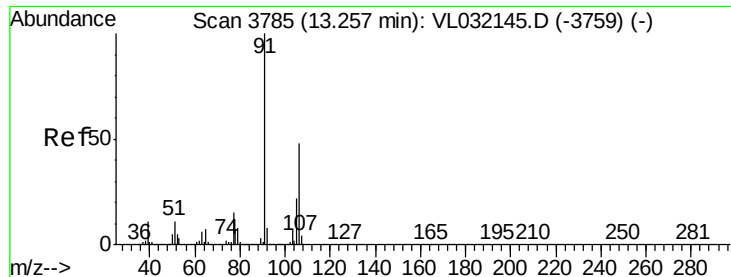


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V







#59

m/p-Xylene

Concen: 7.075 ppbv

RT: 13.25 min Scan# 3784

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

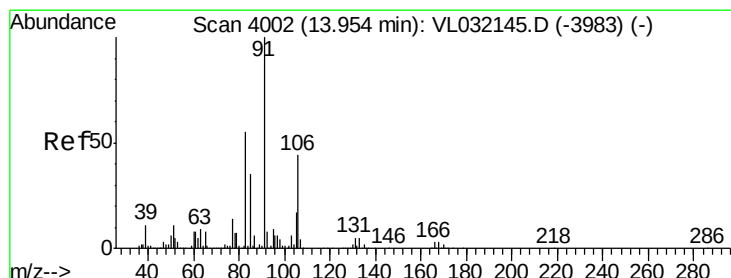
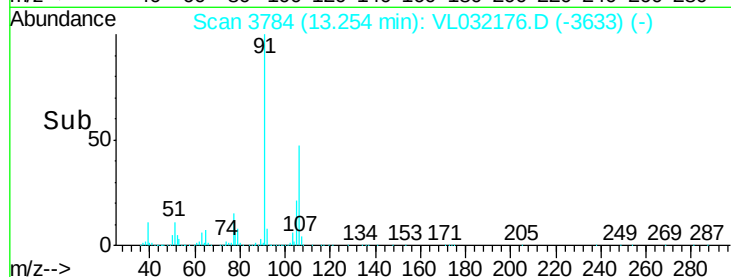
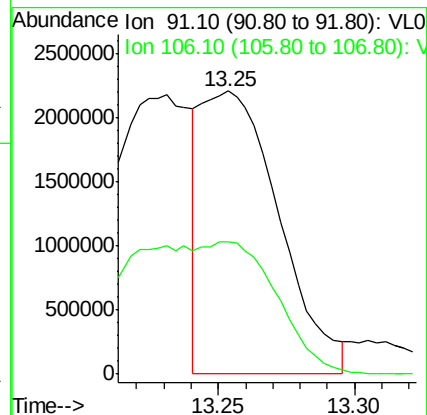
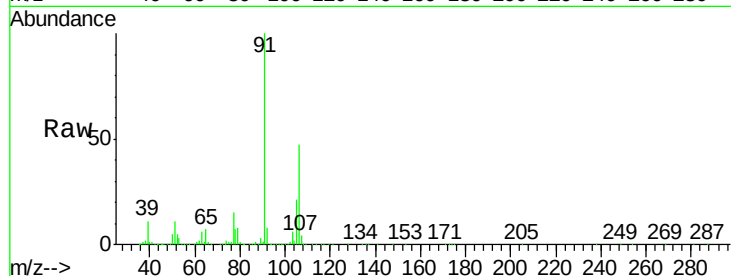
VSTDCCC010

Tgt Ion: 91 Resp: 4334432

Ion Ratio Lower Upper

91 100

106 96.5 38.6 58.0#



#60

o-Xylene

Concen: 7.191 ppbv

RT: 13.95 min Scan# 4002

Delta R.T. -0.02 min

Lab File: VL032176.D

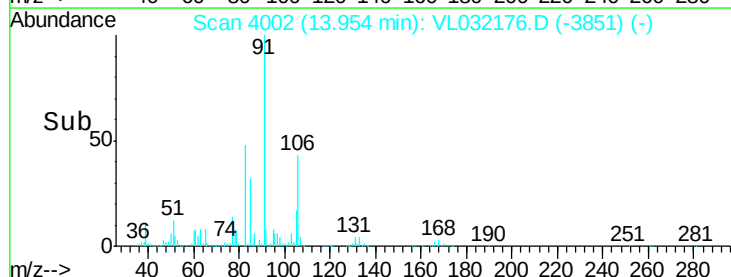
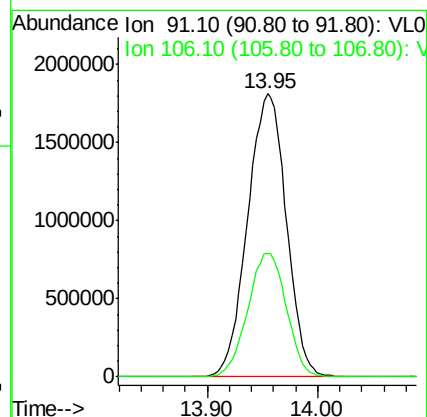
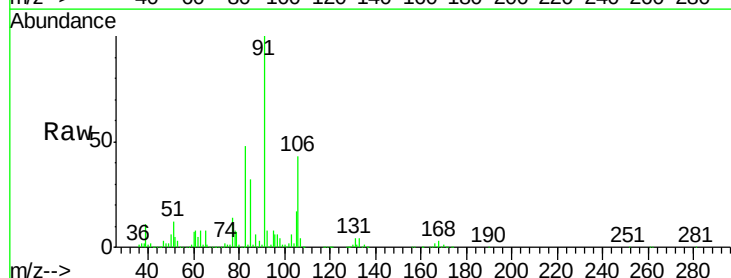
Acq: 2 Jul 2018 10:00

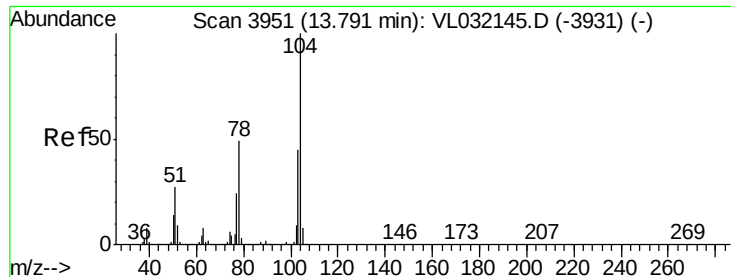
Tgt Ion: 91 Resp: 4394197

Ion Ratio Lower Upper

91 100

106 43.6 23.3 69.8





#61

Styrene

Concen: 7.422 ppbv

RT: 13.79 min Scan# 3951

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

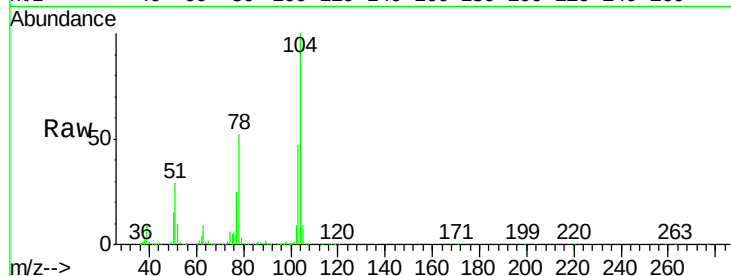
Tgt Ion:104 Resp: 3716827

Ion Ratio Lower Upper

104 100

78 52.8 37.9 56.9

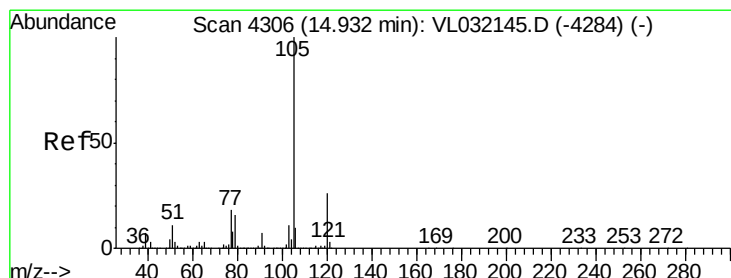
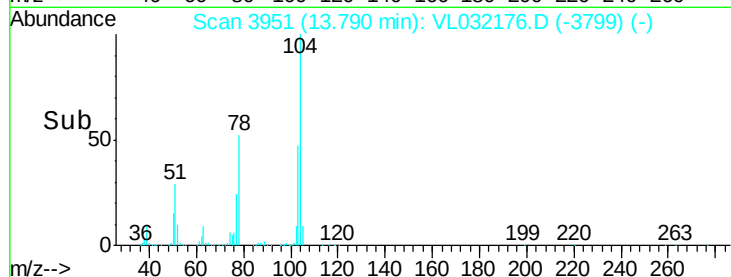
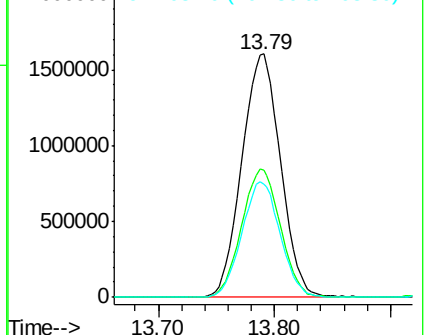
103 47.1 36.6 55.0



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: 6.723 ppbv

RT: 14.93 min Scan# 4305

Delta R.T. -0.02 min

Lab File: VL032176.D

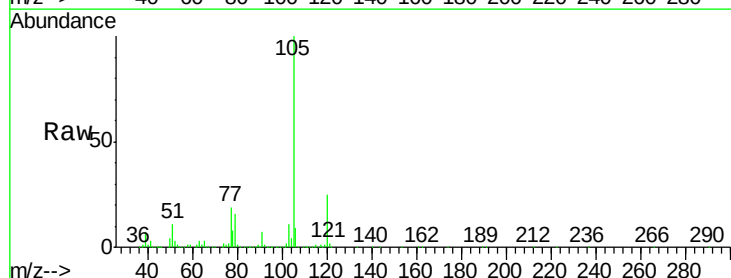
Acq: 2 Jul 2018 10:00

Tgt Ion:105 Resp: 6317533

Ion Ratio Lower Upper

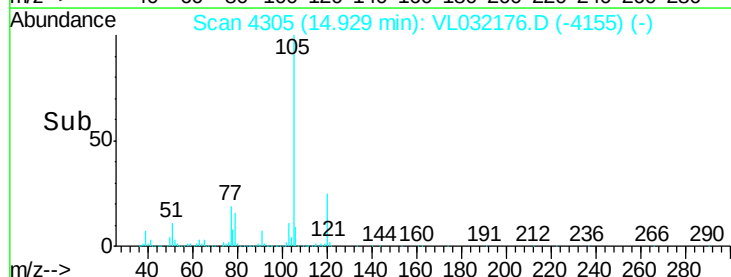
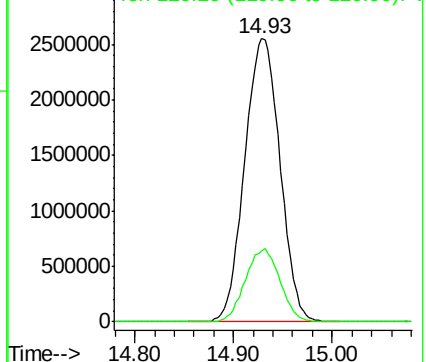
105 100

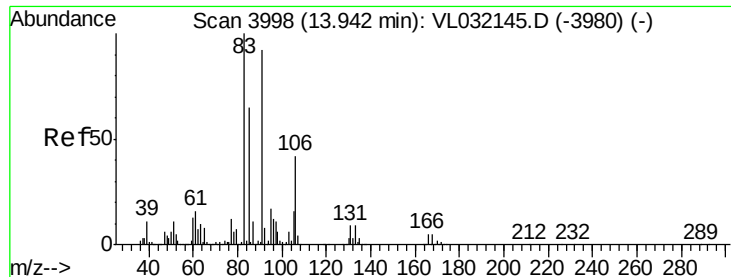
120 25.3 21.0 31.4



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: 6.608 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

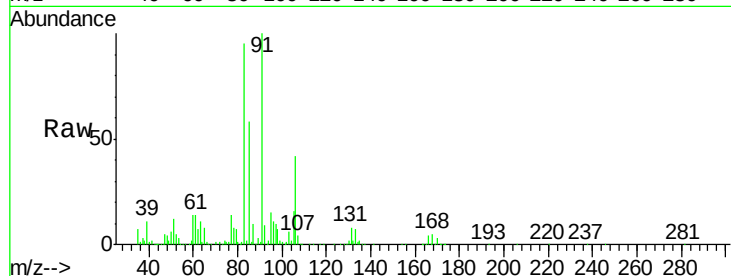
Tgt Ion: 83 Resp: 3126782

Ion Ratio Lower Upper

83 100

131 8.8 4.6 13.8

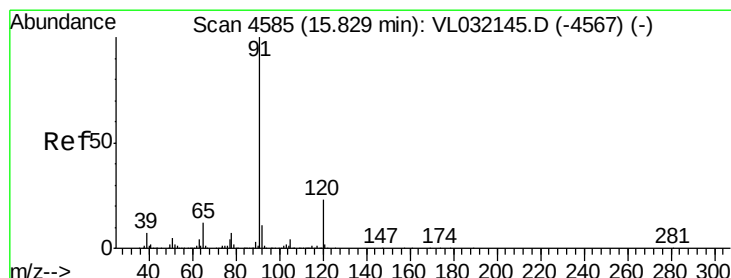
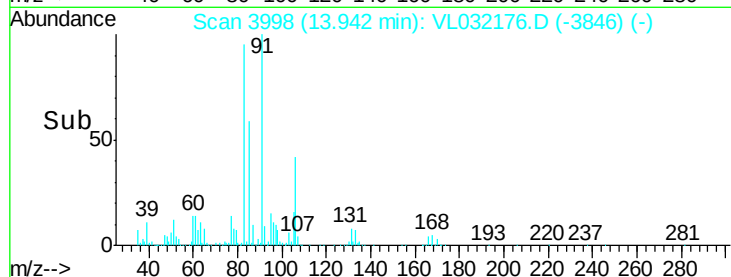
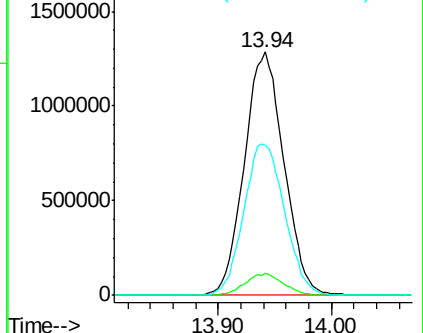
85 64.4 32.4 97.2



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: 4.167 ppbv

RT: 15.83 min Scan# 4584

Delta R.T. -0.02 min

Lab File: VL032176.D

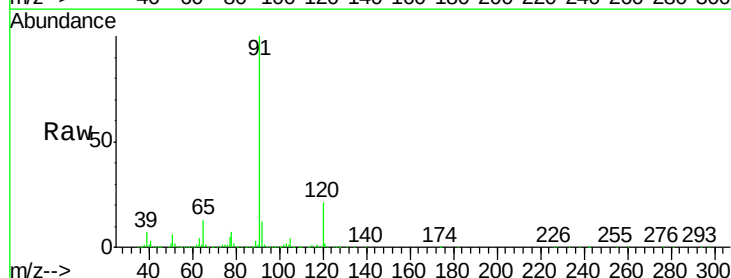
Acq: 2 Jul 2018 10:00

Tgt Ion: 120 Resp: 1013465

Ion Ratio Lower Upper

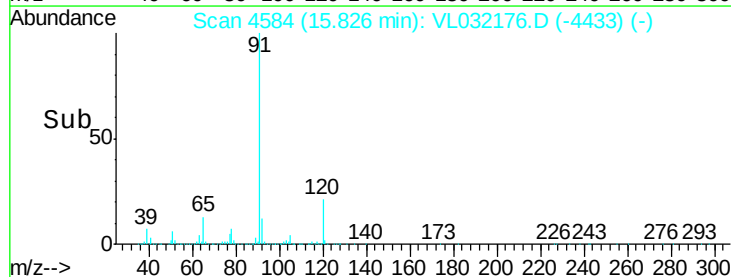
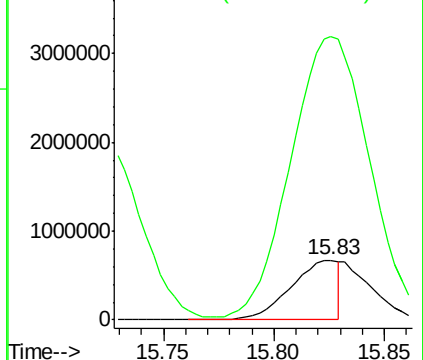
120 100

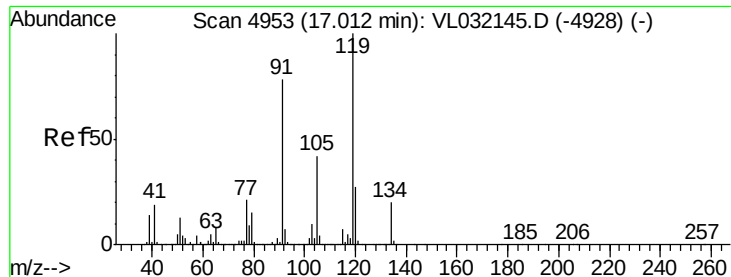
91 782.7 357.4 536.0#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

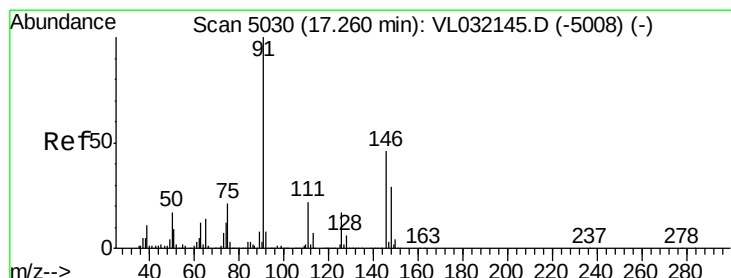
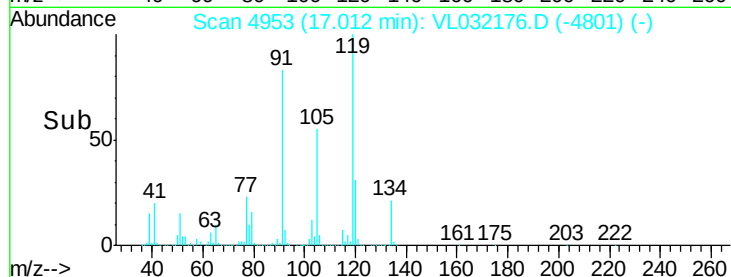
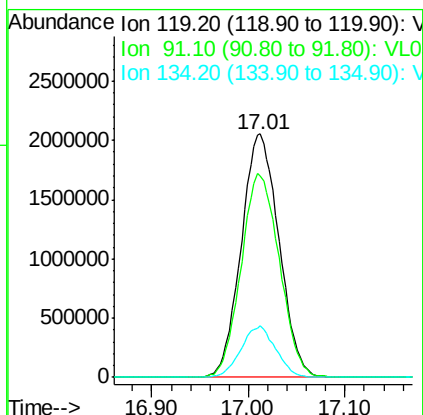
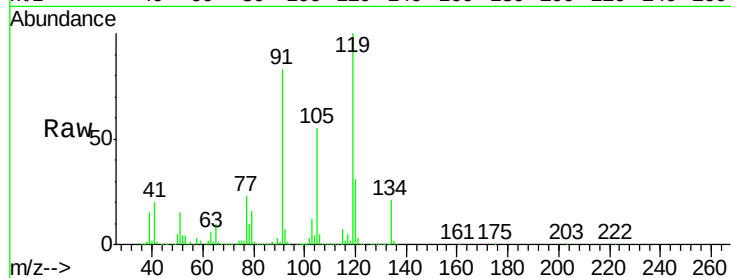




#65  
 tert-Butylbenzene  
 Concen: 6.724 ppbv  
 RT: 17.01 min Scan# 4953  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

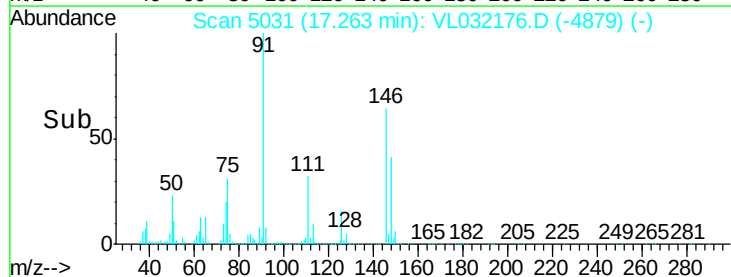
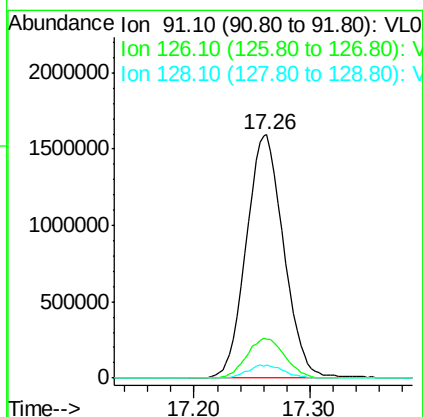
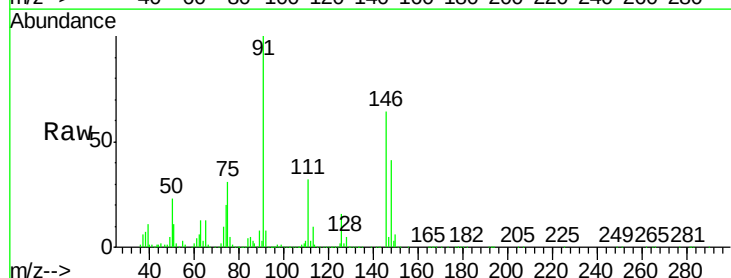
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

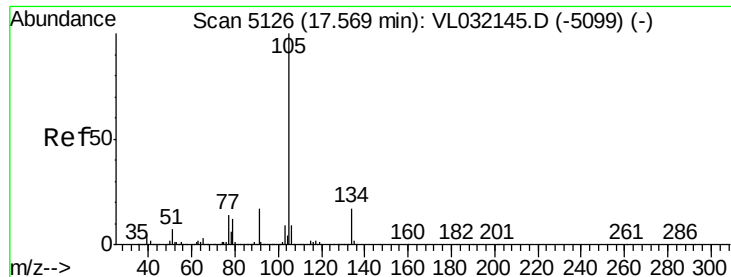
Tgt Ion: 119 Resp: 5551867  
 Ion Ratio Lower Upper  
 119 100  
 91 85.2 62.2 93.2  
 134 19.4 16.2 24.2



#66  
 Benzyl Chloride  
 Concen: 6.995 ppbv  
 RT: 17.26 min Scan# 5031  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Tgt Ion: 91 Resp: 3566656  
 Ion Ratio Lower Upper  
 91 100  
 126 16.8 15.7 23.5  
 128 5.3 5.2 7.8

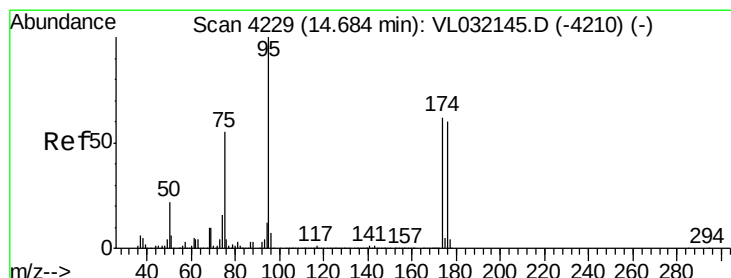
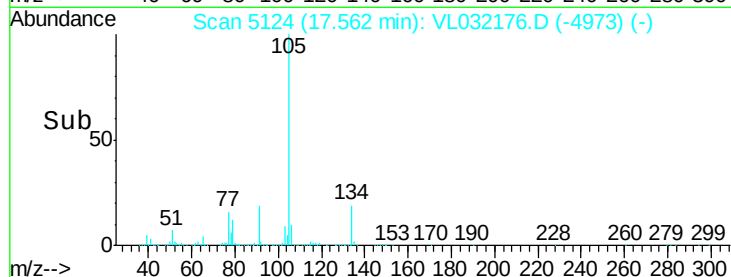
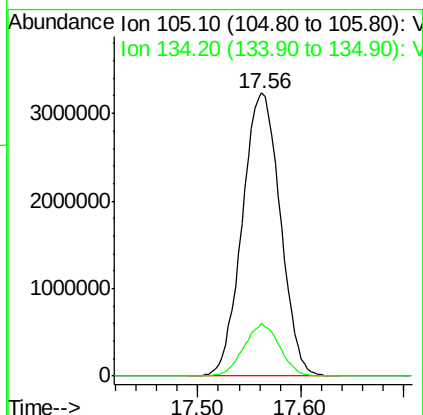
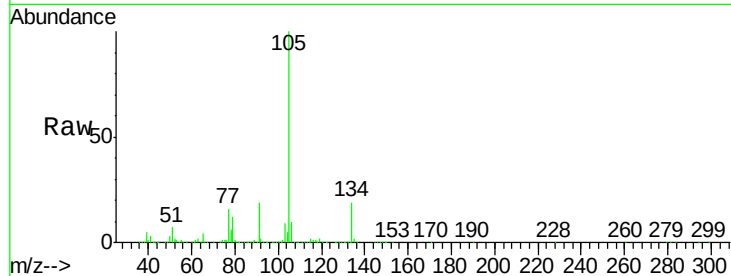




#67  
 sec-Butylbenzene  
 Concen: 6.843 ppbv  
 RT: 17.56 min Scan# 5124  
 Delta R.T. -0.02 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

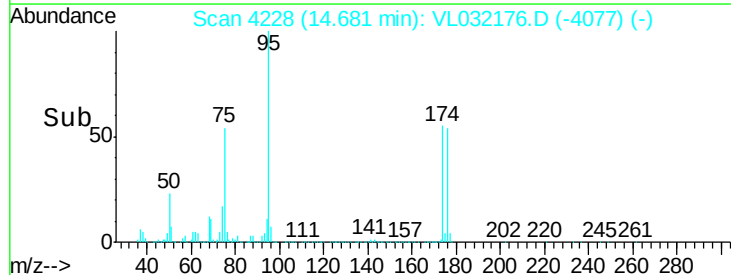
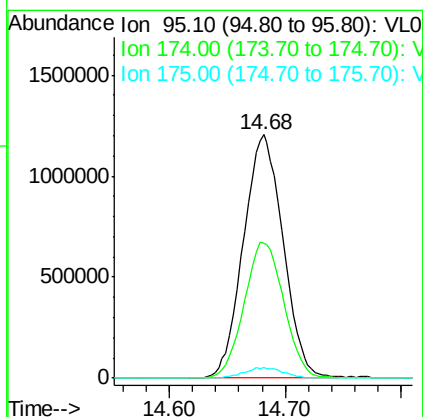
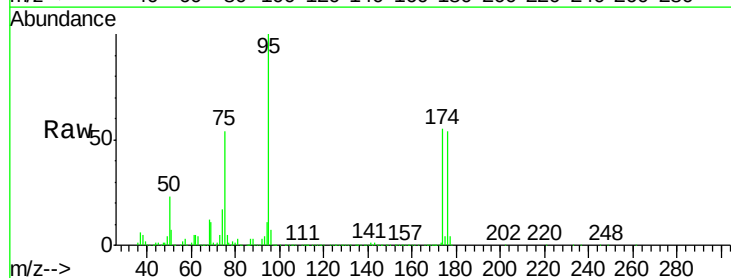
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

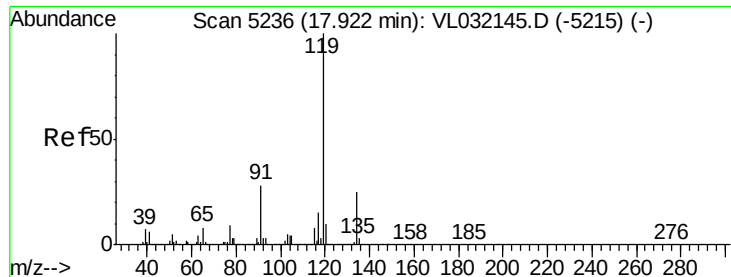
Tgt Ion:105 Resp: 8272057  
 Ion Ratio Lower Upper  
 105 100  
 134 17.5 14.7 22.1



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 7.915 ppbv  
 RT: 14.68 min Scan# 4228  
 Delta R.T. -0.02 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Tgt Ion: 95 Resp: 2869441  
 Ion Ratio Lower Upper  
 95 100  
 174 56.3 52.1 78.1  
 175 4.3 4.0 6.0

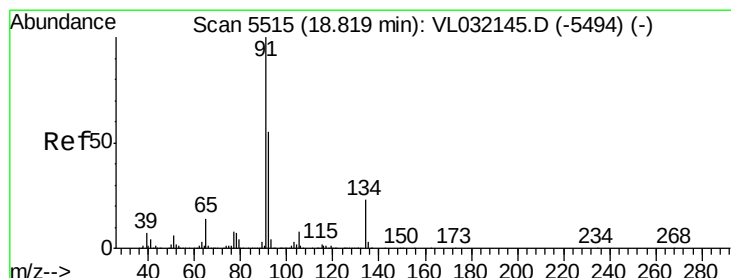
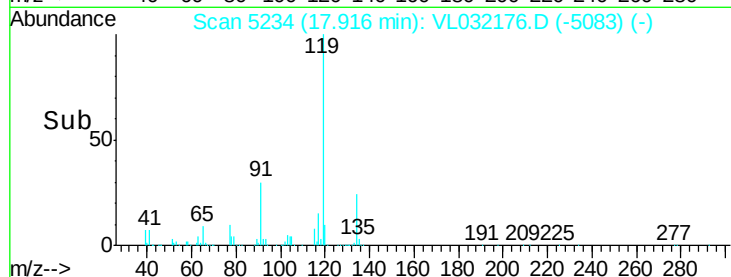
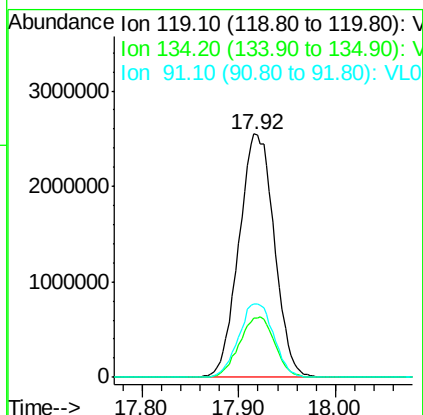
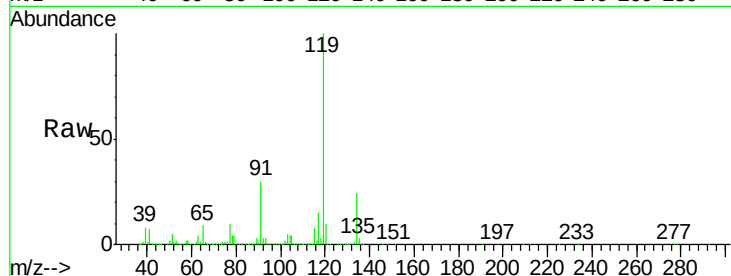




#69  
p-Isopropyltoluene  
Concen: 6.663 ppbv  
RT: 17.92 min Scan# 5234  
Delta R.T. -0.02 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

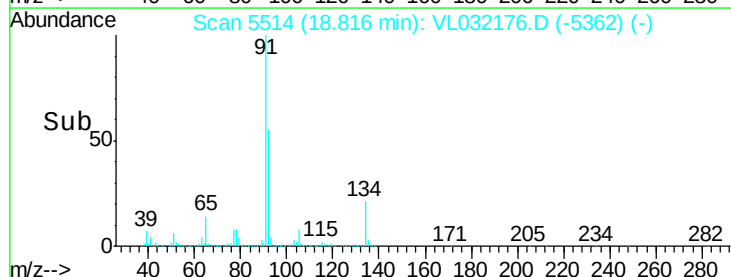
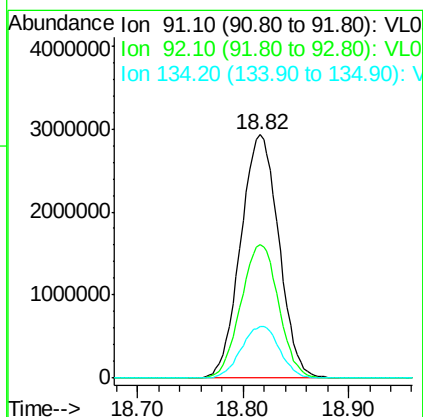
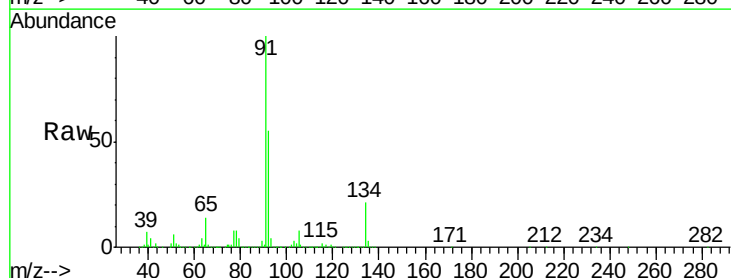
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

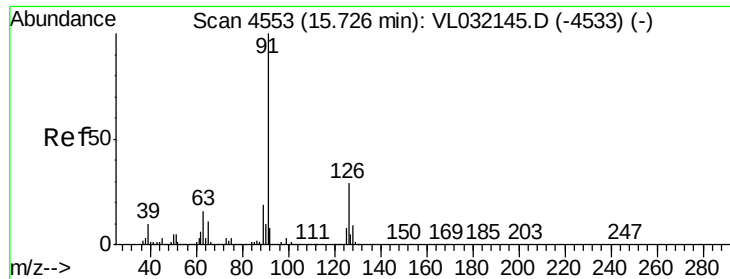
Tgt Ion:119 Resp: 6461700  
Ion Ratio Lower Upper  
119 100  
134 24.8 20.7 31.1  
91 30.0 21.8 32.8



#70  
n-Butylbenzene  
Concen: 7.261 ppbv  
RT: 18.82 min Scan# 5514  
Delta R.T. -0.01 min  
Lab File: VL032176.D  
Acq: 2 Jul 2018 10:00

Tgt Ion: 91 Resp: 7352035  
Ion Ratio Lower Upper  
91 100  
92 54.6 43.7 65.5  
134 21.5 18.9 28.3





#71

2-Chlorotoluene

Concen: 6.961 ppbv

RT: 15.72 min Scan# 4552

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

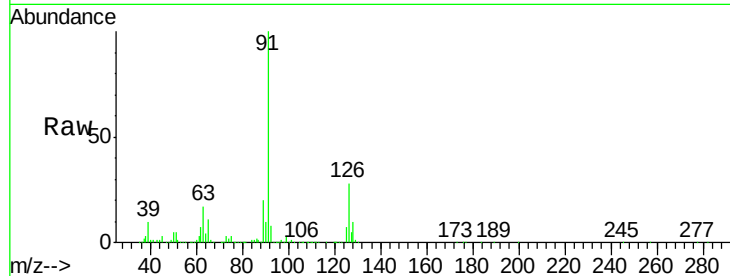
VSTDCCC010

Tgt Ion: 91 Resp: 5036510

Ion Ratio Lower Upper

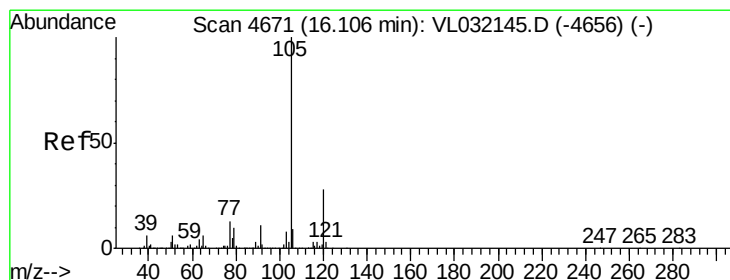
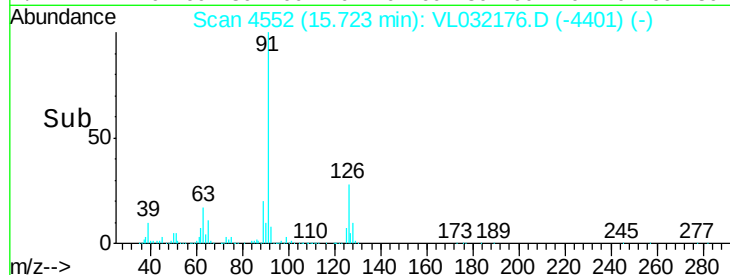
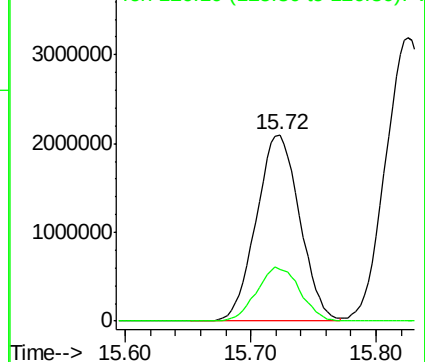
91 100

126 29.0 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: 6.918 ppbv

RT: 16.11 min Scan# 4671

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Tgt Ion: 105 Resp: 5460208

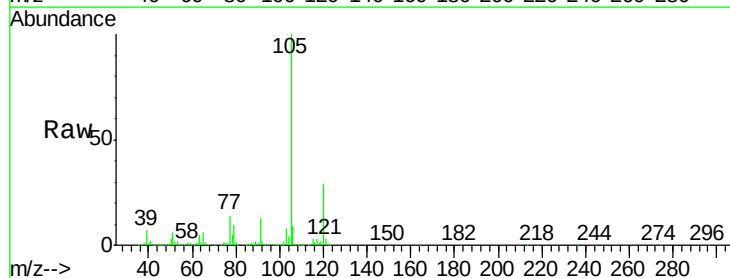
Ion Ratio Lower Upper

105 100

120 28.9 24.3 36.5

91 12.5 9.4 14.0

77 13.8 10.2 15.2

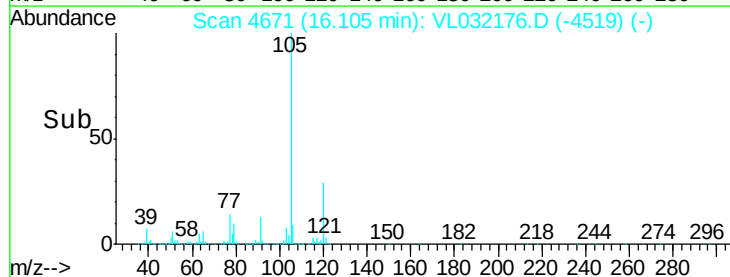
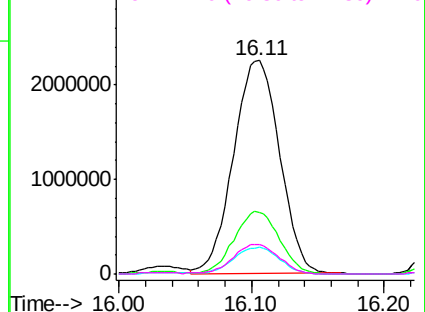


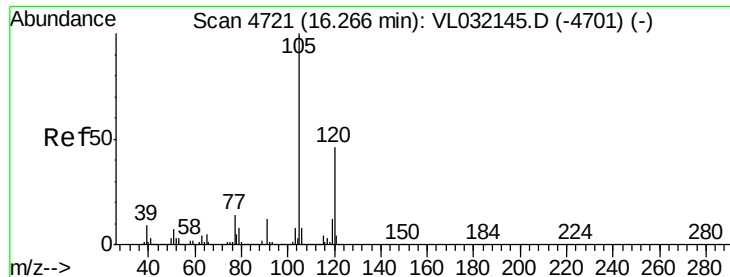
Abundance Ion 105.10 (104.80 to 105.80): V

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: 6.960 ppbv

RT: 16.26 min Scan# 4720

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

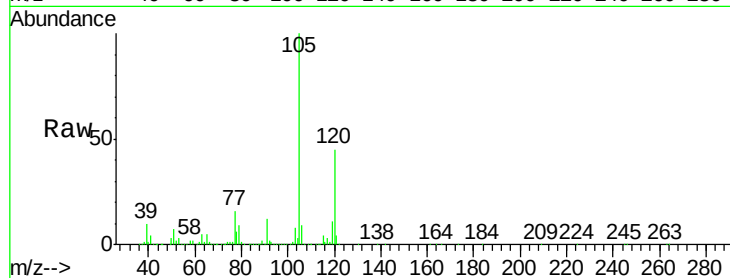
VSTDCCC010

Tgt Ion:105 Resp: 5174518

Ion Ratio Lower Upper

105 100

120 45.1 38.6 57.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2500000

2000000

1500000

1000000

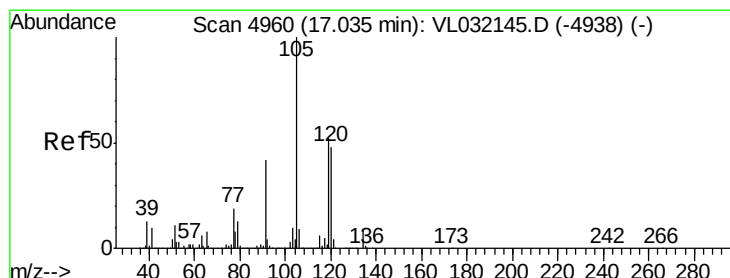
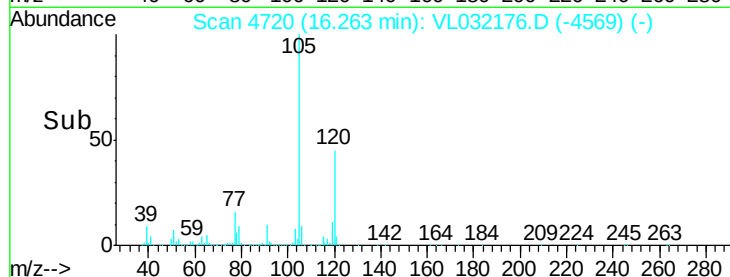
500000

0

16.20

16.30

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.140 ppbv

RT: 17.03 min Scan# 4959

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Tgt Ion:105 Resp: 5356704

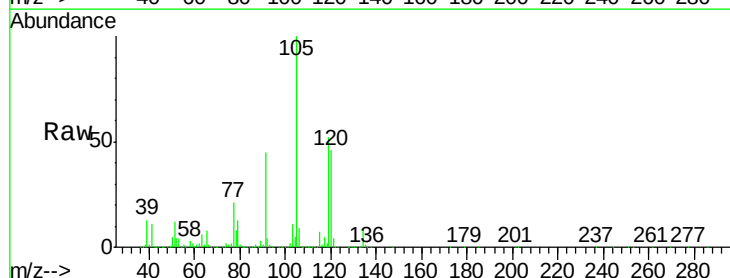
Ion Ratio Lower Upper

105 100

120 45.7 38.8 58.2

91 45.2 33.6 50.4

77 20.6 16.0 24.0



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

3000000

2000000

1000000

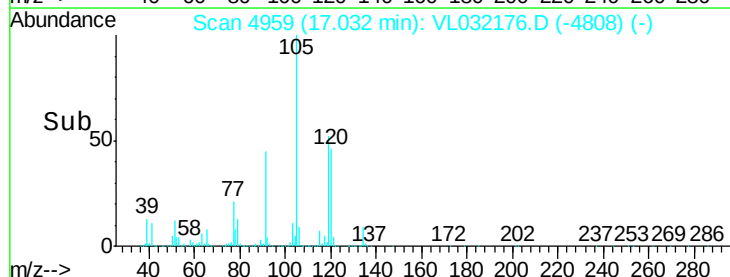
0

16.90

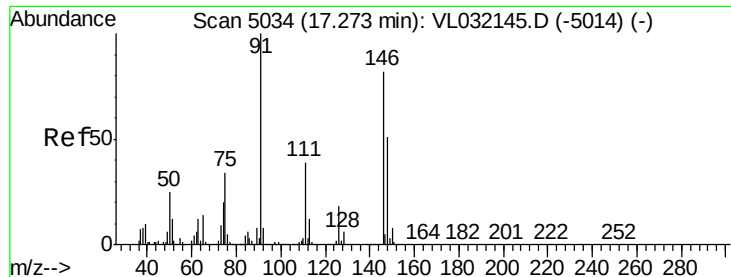
17.00

17.10

Time-->



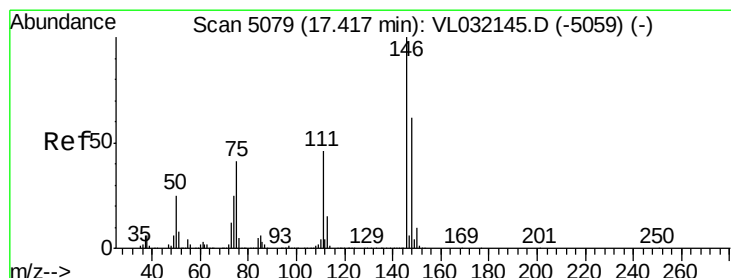
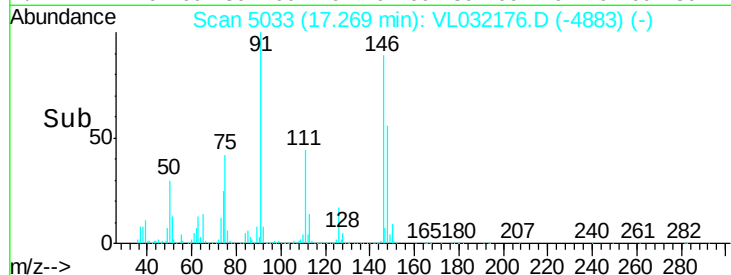
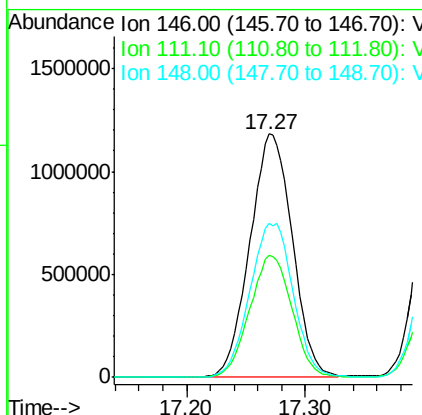
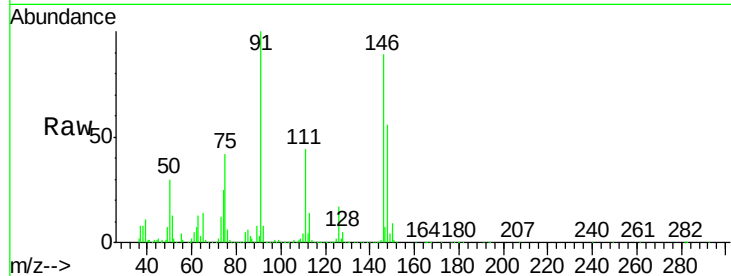




#75  
 1,3-Dichlorobenzene  
 Concen: 6.847 ppbv  
 RT: 17.27 min Scan# 5033  
 Delta R.T. -0.02 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

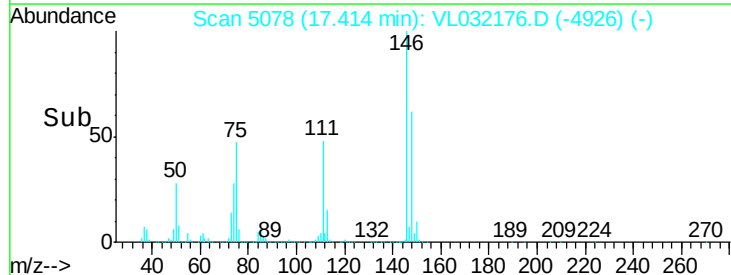
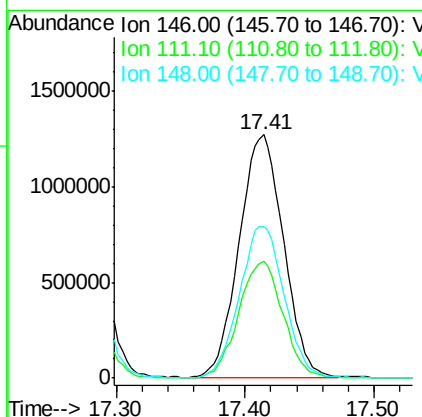
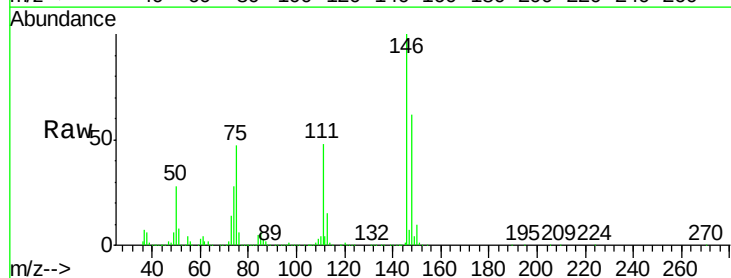
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

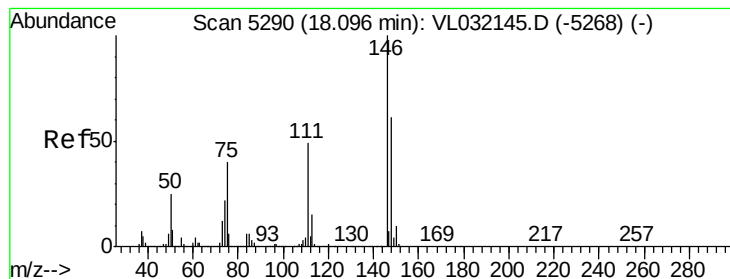
Tgt Ion:146 Resp: 2921978  
 Ion Ratio Lower Upper  
 146 100  
 111 50.1 22.9 68.8  
 148 64.5 31.7 95.1



#76  
 1,4-Dichlorobenzene  
 Concen: 6.998 ppbv  
 RT: 17.41 min Scan# 5078  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Tgt Ion:146 Resp: 3028687  
 Ion Ratio Lower Upper  
 146 100  
 111 48.6 21.9 65.8  
 148 63.7 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 6.926 ppbv

RT: 18.09 min Scan# 5289

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

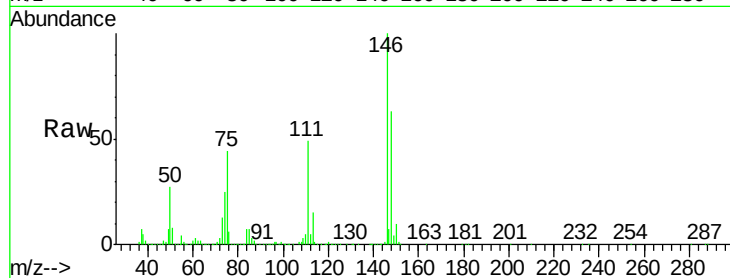
Tgt Ion:146 Resp: 2953851

Ion Ratio Lower Upper

146 100

111 51.4 23.4 70.3

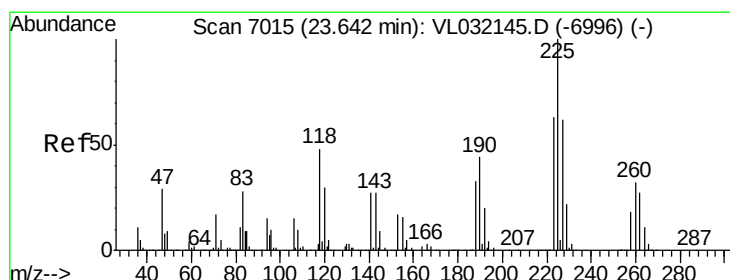
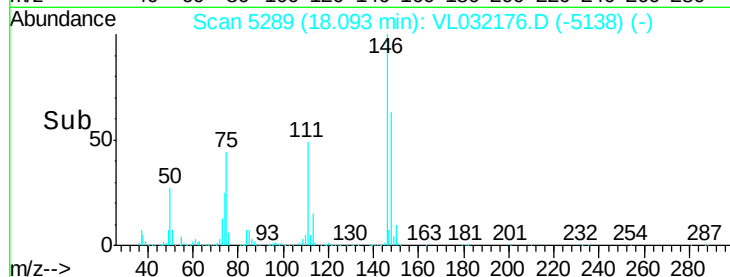
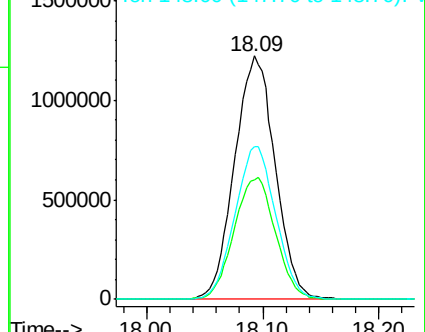
148 63.3 32.0 96.0



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: 11.620 ppbv

RT: 23.64 min Scan# 7014

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

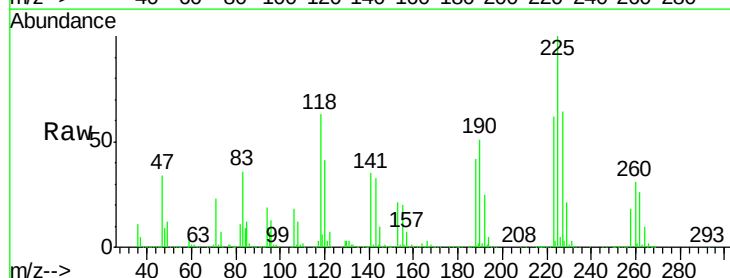
Tgt Ion:225 Resp: 1725729

Ion Ratio Lower Upper

225 100

223 63.2 51.0 76.4

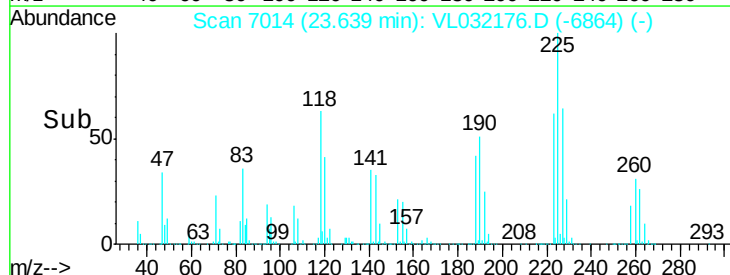
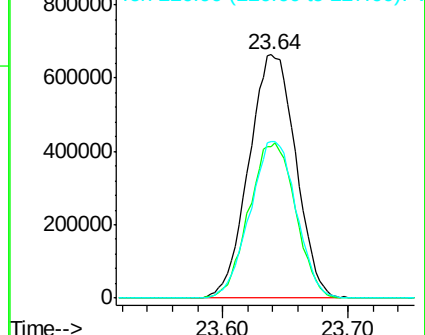
227 63.6 51.4 77.0

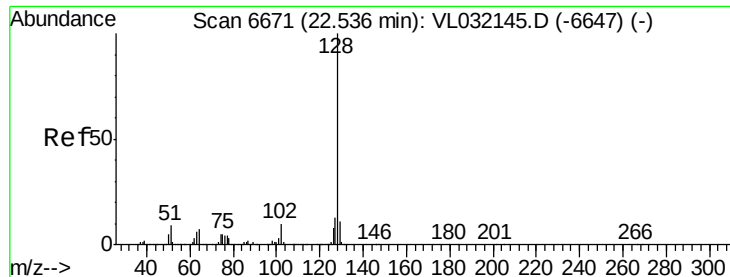


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.798 ppbv

RT: 22.53 min Scan# 6669

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

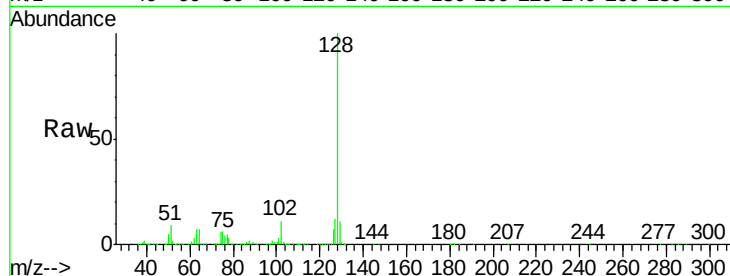
Tgt Ion:128 Resp: 5318521

Ion Ratio Lower Upper

128 100

127 12.5 10.5 15.7

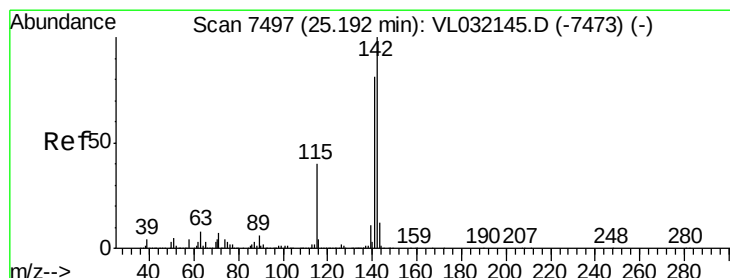
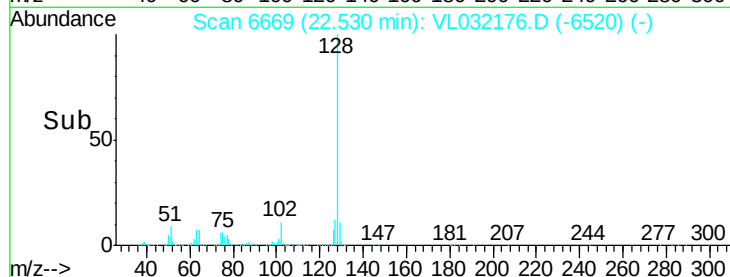
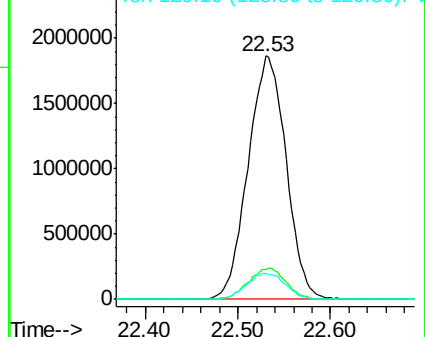
129 10.8 9.0 13.6



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 10.815 ppbv

RT: 25.19 min Scan# 7497

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

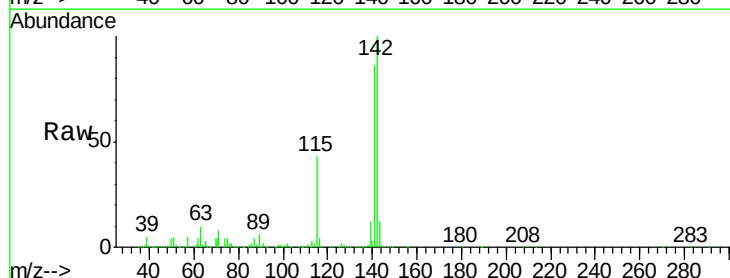
Tgt Ion:142 Resp: 2662161

Ion Ratio Lower Upper

142 100

141 84.1 65.8 98.6

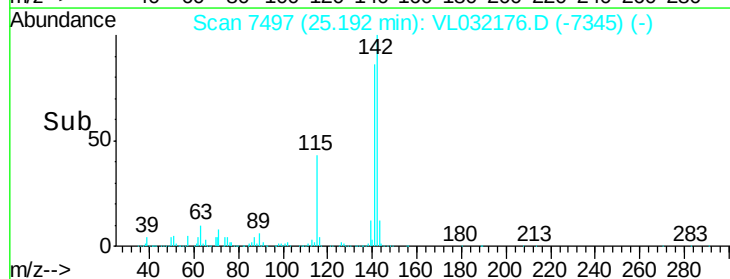
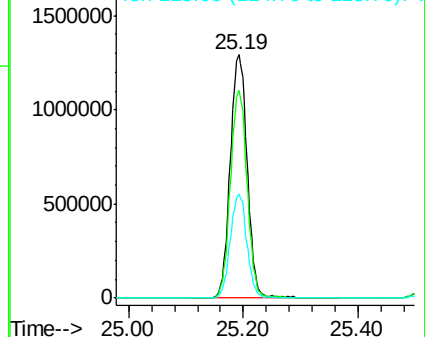
115 41.7 29.4 44.0

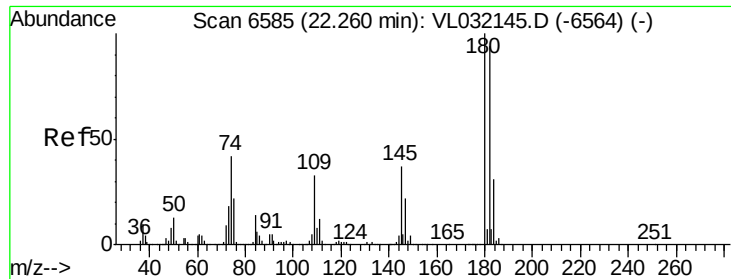


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.040 ppbv  
 RT: 22.26 min Scan# 6585  
 Delta R.T. -0.01 min  
 Lab File: VL032176.D  
 Acq: 2 Jul 2018 10:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:180 Resp: 2475965  
 Ion Ratio Lower Upper  
 180 100  
 182 97.2 76.2 114.4  
 184 30.2 24.4 36.6

