

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\  
 Data File : VL032266.D  
 Acq On : 18 Jul 2018 17:26  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 19 01:58:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 18 14:38:53 2018  
 QLast Update : Wed Jul 18 14:38:53 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.84  | 49   | 1723900  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.38  | 114  | 3895410  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.33 | 117  | 4528080  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.67  | 95    | 3516216  | 9.58     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.80% |

| Target Compounds               |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.13 | 85  | 2586666 | 8.825  | ppbv 100  |
| 3) Chlorodifluoromethane       | 3.06 | 51  | 1819711 | 9.406  | ppbv 99   |
| 4) Chloromethane               | 3.22 | 50  | 1055321 | 9.264  | ppbv 97   |
| 5) Vinyl Chloride              | 3.34 | 62  | 991406  | 9.181  | ppbv 99   |
| 6) Bromomethane                | 3.57 | 94  | 551901  | 9.376  | ppbv 94   |
| 7) Chloroethane                | 3.66 | 64  | 360421  | 9.413  | ppbv 99   |
| 8) Dichlorotetrafluoroethane   | 3.27 | 85  | 2061313 | 8.616  | ppbv 100  |
| 9) Propene                     | 3.09 | 41  | 894144  | 10.575 | ppbv 100  |
| 10) Heptane                    | 8.33 | 43  | 2572589 | 9.574  | ppbv 99   |
| 11) Trichlorofluoromethane     | 4.06 | 101 | 2026727 | 8.843  | ppbv 99   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.62 | 101 | 1333962 | 9.127  | ppbv 99   |
| 13) Ethanol                    | 3.70 | 45  | 219693  | 9.094  | ppbv 99   |
| 14) Bromoethene                | 3.85 | 108 | 638809  | 9.694  | ppbv 98   |
| 15) Acetone                    | 3.96 | 43  | 1622928 | 8.995  | ppbv 99   |
| 16) 1,3-Butadiene              | 3.42 | 39  | 885549  | 9.635  | ppbv 100  |
| 17) tert-Butyl alcohol         | 4.42 | 59  | 581620  | 10.222 | ppbv 99   |
| 18) 1,1-Dichloroethene         | 4.42 | 96  | 634521  | 9.295  | ppbv 99   |
| 19) Isopropyl Alcohol          | 4.08 | 45  | 1213946 | 9.948  | ppbv 99   |
| 20) Methylene Chloride         | 4.47 | 84  | 572033  | 8.235  | ppbv 96   |
| 21) Allyl Chloride             | 4.54 | 41  | 1162384 | 9.781  | ppbv 99   |
| 22) trans-1,2-Dichloroethene   | 5.04 | 96  | 668530  | 9.433  | ppbv 99   |
| 23) Vinyl Acetate              | 5.23 | 43  | 3304000 | 10.211 | ppbv 99   |
| 24) 1,1-Dichloroethane         | 5.16 | 63  | 2153177 | 9.173  | ppbv 99   |
| 25) Ethyl Acetate              | 5.85 | 43  | 3715235 | 9.453  | ppbv 100  |
| 26) Hexane                     | 5.86 | 57  | 1703844 | 9.440  | ppbv 100  |
| 27) Carbon Disulfide           | 4.69 | 76  | 1621558 | 10.146 | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.18 | 73  | 2655273 | 9.923  | ppbv 99   |
| 29) Chloroform                 | 5.93 | 83  | 2444087 | 9.184  | ppbv 95   |
| 30) Cyclohexane                | 7.33 | 84  | 1528952 | 10.096 | ppbv 99   |
| 31) cis-1,2-Dichloroethene     | 5.72 | 61  | 1744073 | 10.079 | ppbv 99   |
| 32) 1,1,1-Trichloroethane      | 6.70 | 97  | 2431725 | 9.032  | ppbv 99   |
| 34) 2-Butanone                 | 5.40 | 43  | 2635199 | 9.859  | ppbv 100  |
| 35) Carbon Tetrachloride       | 7.22 | 117 | 2526488 | 9.430  | ppbv 96   |
| 36) Benzene                    | 7.09 | 78  | 3723916 | 9.712  | ppbv 99   |
| 37) 1,2-Dichloroethane         | 6.49 | 62  | 1977001 | 8.728  | ppbv 100  |
| 38) Trichloroethene            | 8.05 | 130 | 1215531 | 9.582  | ppbv 98   |
| 39) 1,2-Dichloropropane        | 7.82 | 63  | 1505649 | 9.918  | ppbv 97   |
| 40) 1,4-Dioxane                | 8.04 | 88  | 461910  | 10.302 | ppbv # 15 |
| 41) Tetrahydrofuran            | 6.22 | 42  | 1562324 | 10.019 | ppbv 99   |
| 42) Bromodichloromethane       | 8.00 | 83  | 2846445 | 9.981  | ppbv 98   |
| 43) Methyl Methacrylate        | 8.22 | 69  | 1588289 | 10.107 | ppbv 99   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\  
 Data File : VL032266.D  
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 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

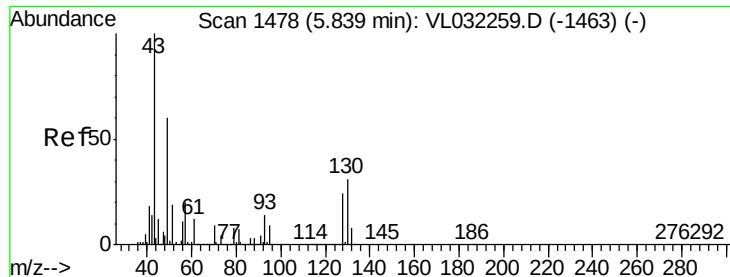
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 19 01:58:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 18 14:38:53 2018  
 QLast Update : Wed Jul 18 14:38:53 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| 44) 2,2,4-Trimethylpentane    | 8.08  | 57   | 6425483  | 9.615  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.50  | 75   | 2036933  | 11.000 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.92  | 75   | 2394800  | 10.140 | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 9.71  | 97   | 1653164  | 10.077 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.55 | 129  | 2121872  | 8.868  | ppbv   | 99       |
| 49) Bromoform                 | 13.30 | 173  | 2066781  | 9.898  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.96  | 43   | 4083005  | 9.283  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.36 | 43   | 3092163  | 9.222  | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.46 | 164  | 1177698  | 8.993  | ppbv   | 97       |
| 53) Toluene                   | 10.04 | 91   | 4678409  | 10.064 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.85 | 107  | 2100934  | 8.681  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.38 | 131  | 1840630  | 9.127  | ppbv # | 59       |
| 57) Chlorobenzene             | 12.39 | 112  | 3342282  | 8.998  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.96 | 91   | 6326503  | 9.915  | ppbv   | 98       |
| 59) m/p-Xylene                | 13.24 | 91   | 4306011  | 7.910  | ppbv # | 7        |
| 60) o-Xylene                  | 13.94 | 91   | 4868326  | 8.980  | ppbv   | 99       |
| 61) Styrene                   | 13.78 | 104  | 3993502  | 9.920  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.92 | 105  | 6959673  | 8.955  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.93 | 83   | 3597473  | 7.783  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.81 | 120  | 1806582  | 9.053  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 17.00 | 119  | 5631025  | 8.504  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.25 | 91   | 3836064  | 10.289 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.55 | 105  | 8453235  | 8.557  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.91 | 119  | 6761555  | 8.860  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.81 | 91   | 7531898  | 8.847  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.71 | 91   | 5583087  | 8.963  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 16.09 | 105  | 5778437  | 9.227  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.25 | 105  | 5460618  | 8.918  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 17.02 | 105  | 5362235  | 8.365  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.26 | 146  | 2918103  | 8.193  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.40 | 146  | 2977152  | 8.427  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 18.08 | 146  | 2917555  | 8.473  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.63 | 225  | 1787817  | 16.017 | ppbv   | 100      |
| 79) Naphthalene               | 22.52 | 128  | 5109026  | 9.491  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 25.19 | 142  | 2523090  | 11.033 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 22.25 | 180  | 2417447  | 9.210  | ppbv   | 100      |
| -----                         |       |      |          |        |        |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :  
MSVOA\_L  
ClientSampleId :

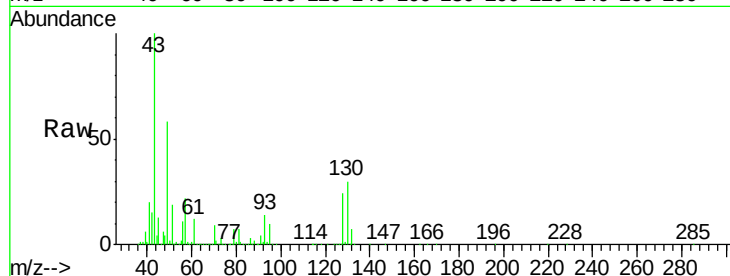
Tot Ion: 49 Resp: 1723900

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 39.8  | 20.1  | 60.2  |
| 130 | 51.2  | 25.9  | 77.6  |

49 100

128 39.8 20.1 60.2

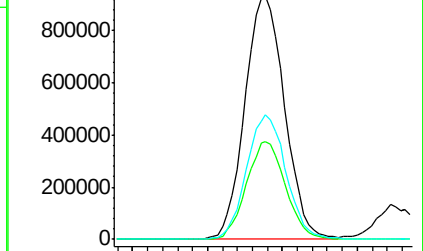
130 51.2 25.9 77.6



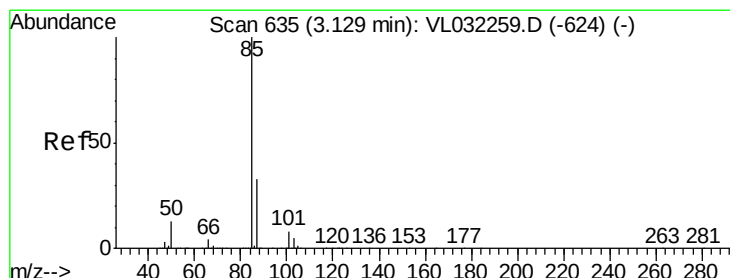
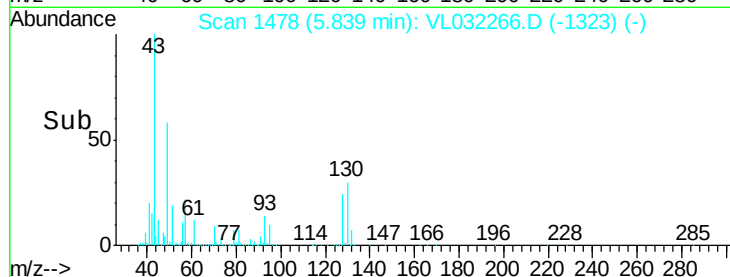
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 8.825 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032266.D

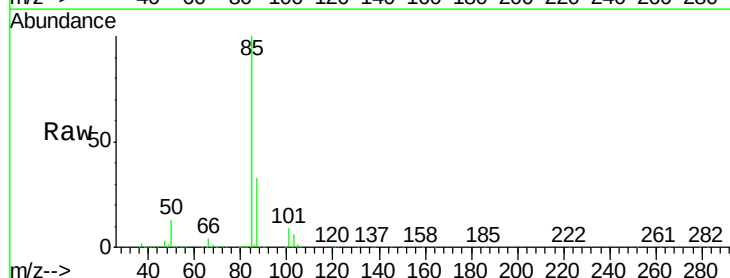
Acq: 18 Jul 2018 17:26

Tgt Ion: 85 Resp: 2586666

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 32.9  | 26.2  | 39.2  |

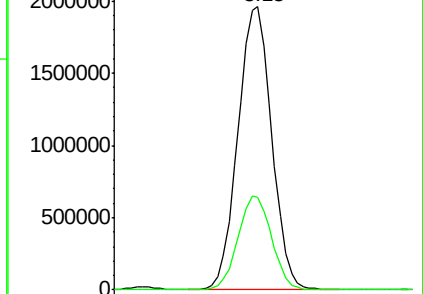
85 100

87 32.9 26.2 39.2

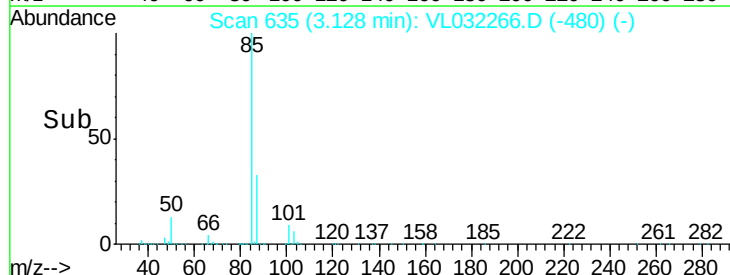


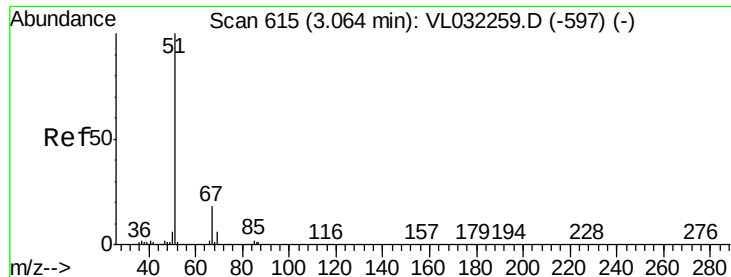
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 9.406 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

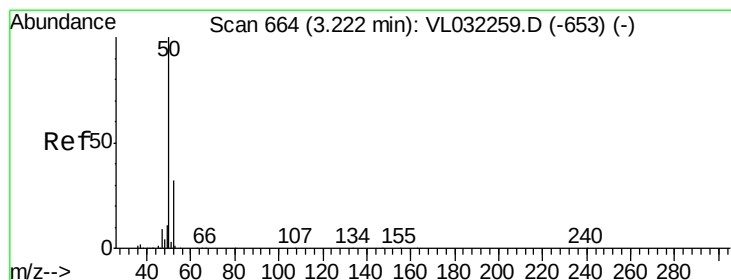
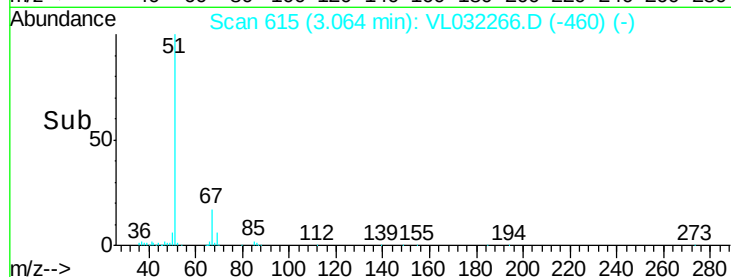
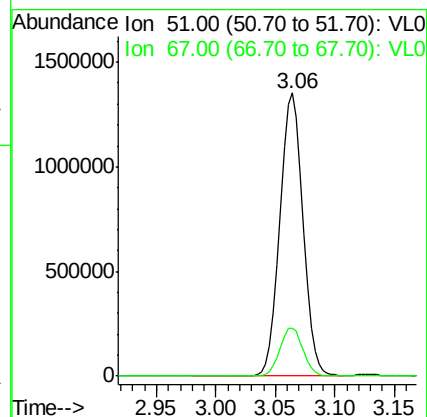
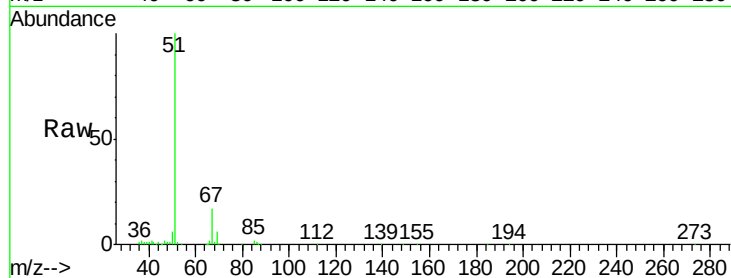
ClientSampleId :

Tot Ion: 51 Resp: 1819711

Ion Ratio Lower Upper

51 100

67 17.3 14.2 21.4



#4

Chloromethane

Concen: 9.264 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032266.D

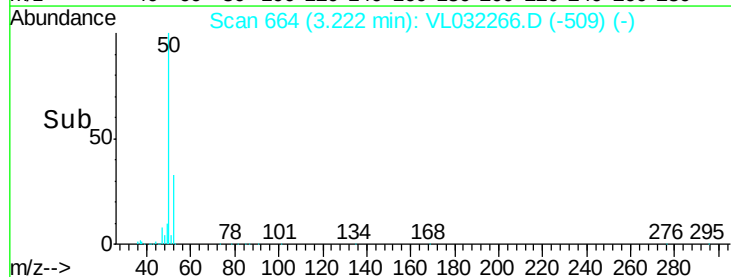
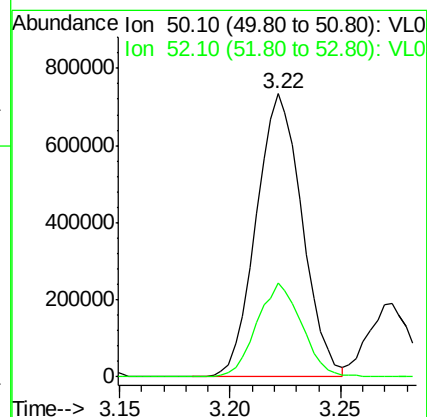
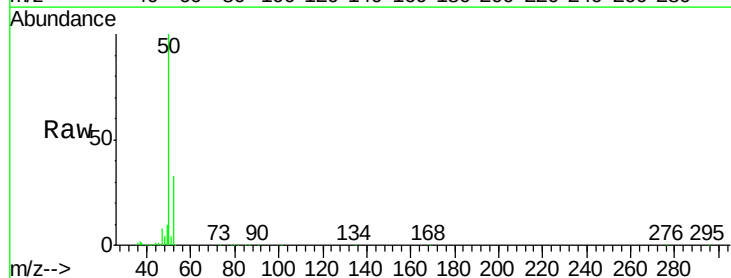
Acq: 18 Jul 2018 17:26

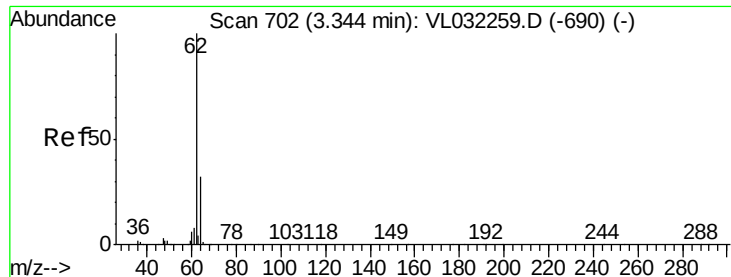
Tgt Ion: 50 Resp: 1055321

Ion Ratio Lower Upper

50 100

52 33.2 25.3 37.9





#5

Vinyl Chloride

Concen: 9.181 ppbv

RT: 3.34 min Scan# 702

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

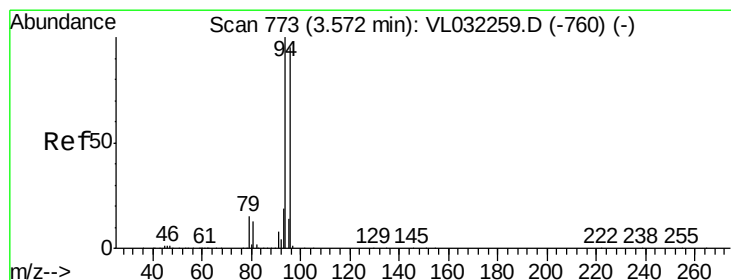
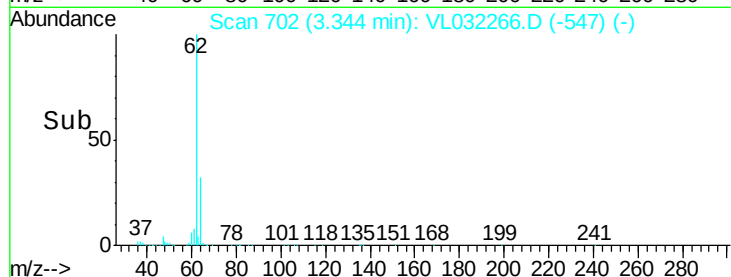
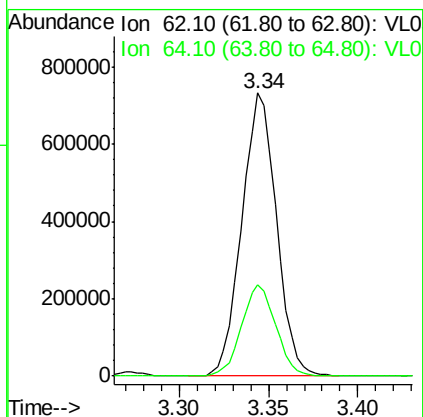
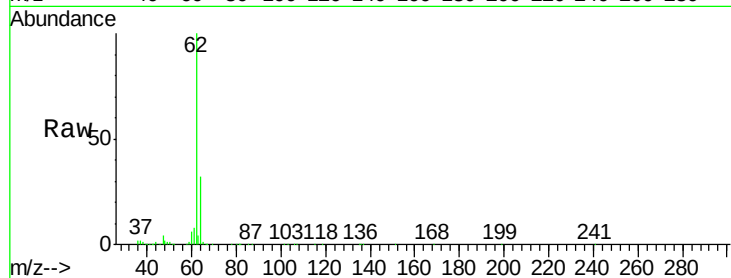
ClientSampleId :

Tot Ion: 62 Resp: 991406

Ion Ratio Lower Upper

62 100

64 32.1 25.3 37.9



#6

Bromomethane

Concen: 9.376 ppbv

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VL032266.D

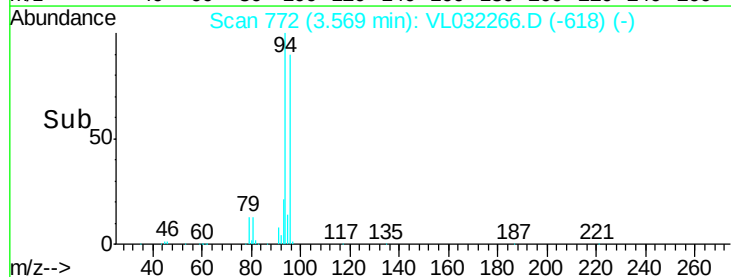
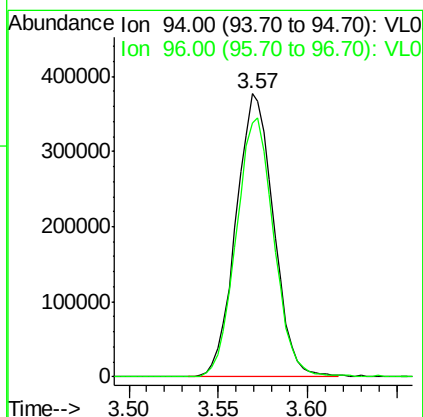
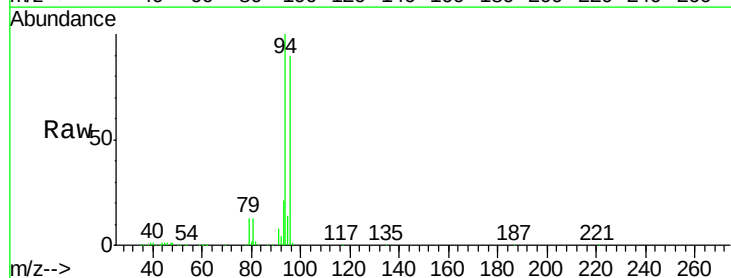
Acq: 18 Jul 2018 17:26

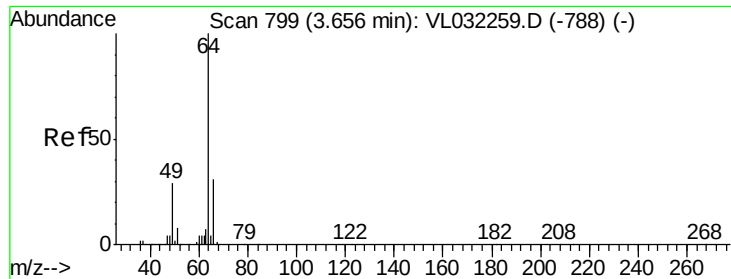
Tgt Ion: 94 Resp: 551901

Ion Ratio Lower Upper

94 100

96 89.7 76.1 114.1





#7

Chloroethane

Concen: 9.413 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

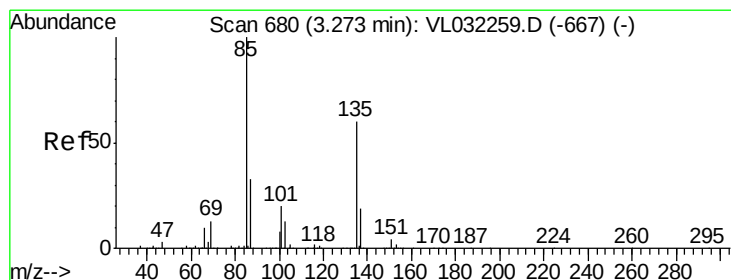
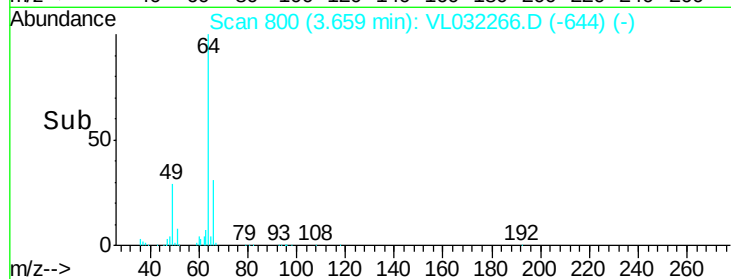
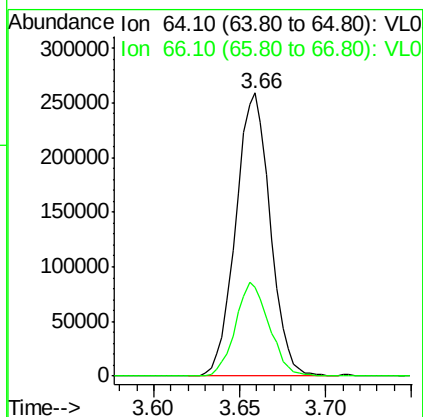
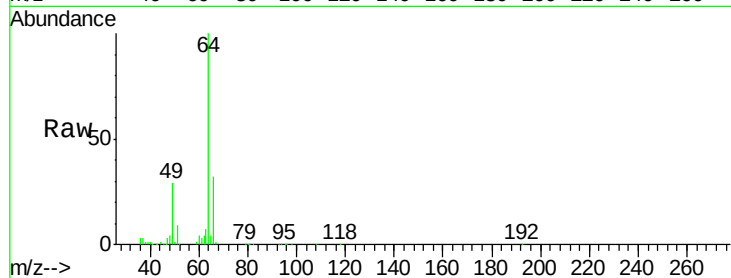
ClientSampleId :

Tot Ion: 64 Resp: 360421

Ion Ratio Lower Upper

64 100

66 31.6 25.0 37.4



#8

Dichlorotetrafluoroethane

Concen: 8.616 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032266.D

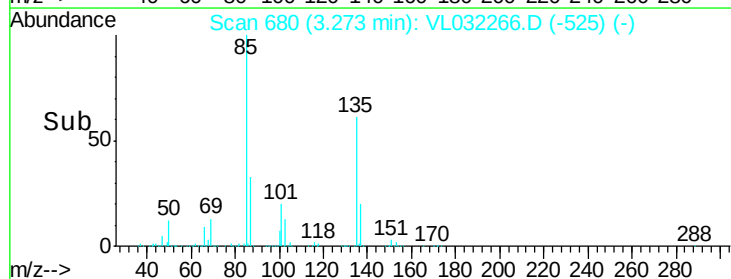
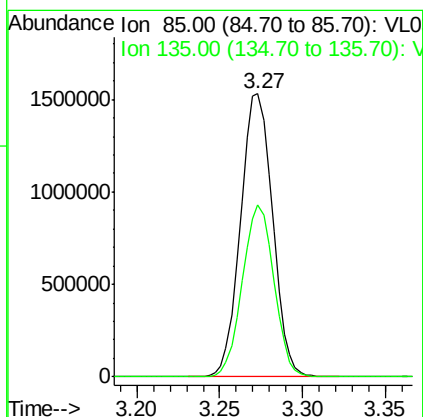
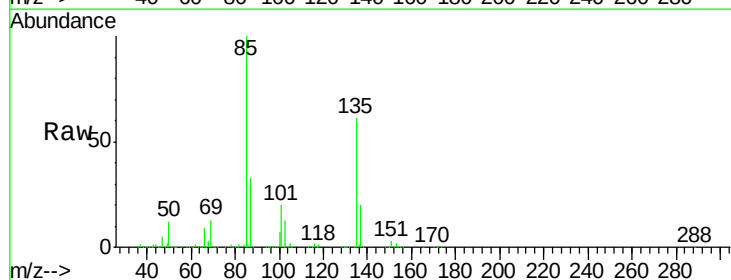
Acq: 18 Jul 2018 17:26

Tgt Ion: 85 Resp: 2061313

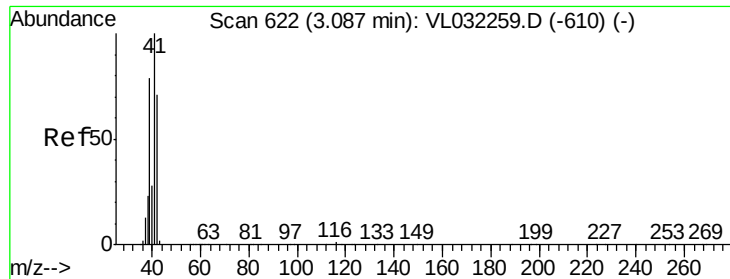
Ion Ratio Lower Upper

85 100

135 60.0 47.8 71.8







#9

Propene

Concen: 10.575 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

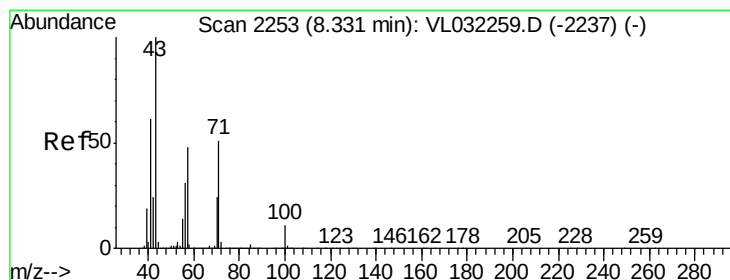
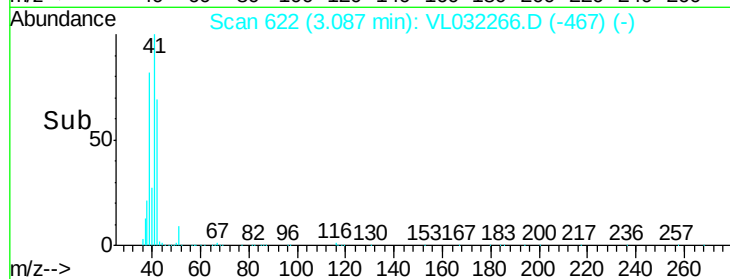
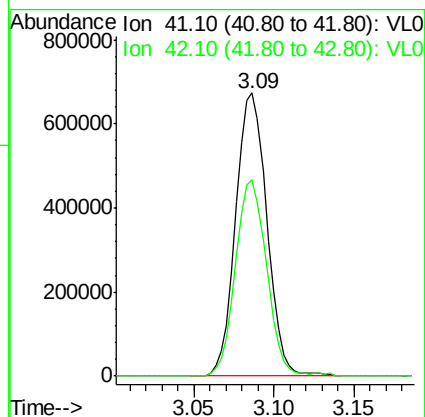
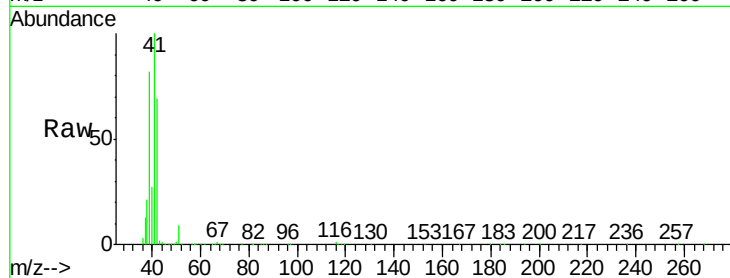
ClientSampleId :

Tot Ion: 41 Resp: 894144

Ion Ratio Lower Upper

41 100

42 70.0 56.2 84.4



#10

Heptane

Concen: 9.574 ppbv

RT: 8.33 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VL032266.D

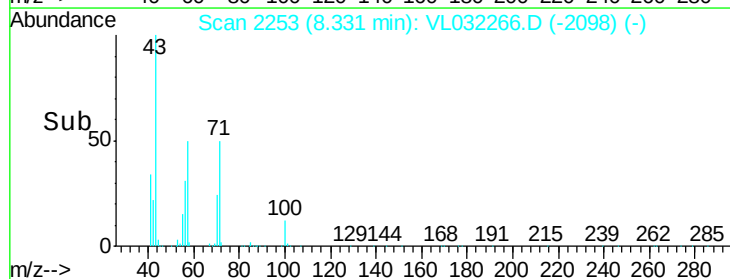
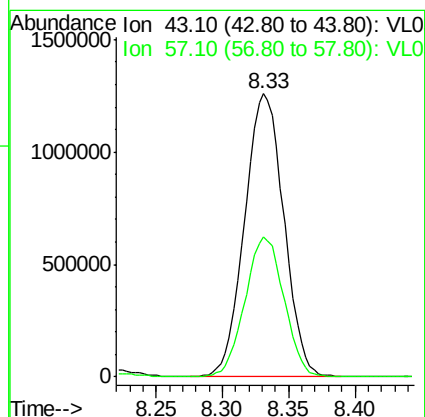
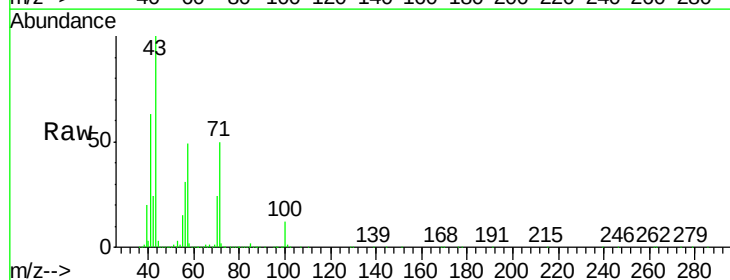
Acq: 18 Jul 2018 17:26

Tgt Ion: 43 Resp: 2572589

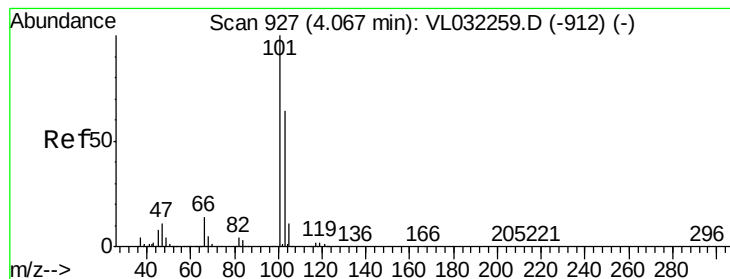
Ion Ratio Lower Upper

43 100

57 49.5 39.9 59.9







#11

Trichlorofluoromethane

Concen: 8.843 ppbv

RT: 4.06 min Scan# 926

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

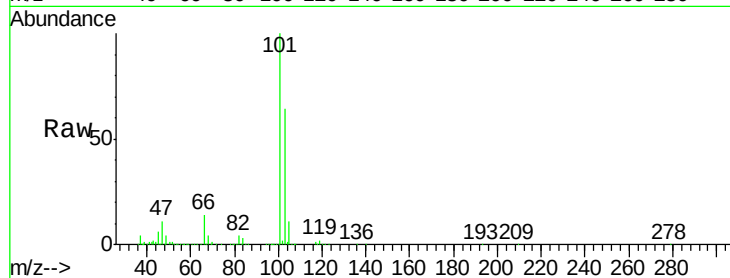
ClientSampled :

Tot Ion:101 Resp: 2026727

Ion Ratio Lower Upper

101 100

103 63.9 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

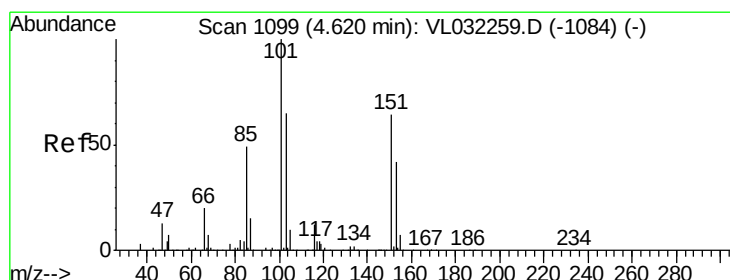
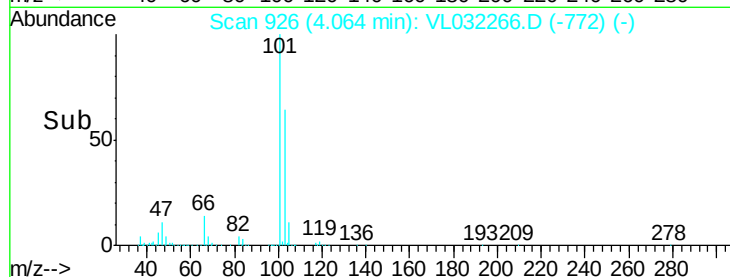
4.06

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.127 ppbv

RT: 4.62 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VL032266.D

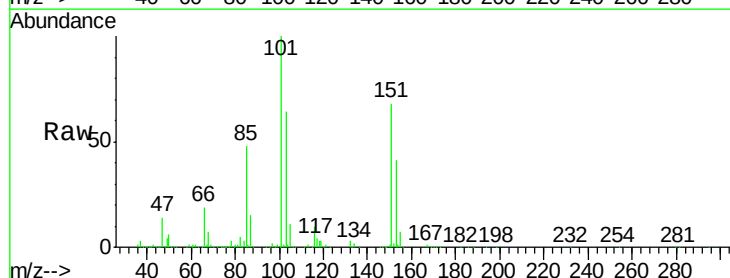
Acq: 18 Jul 2018 17:26

Tgt Ion:101 Resp: 1333962

Ion Ratio Lower Upper

101 100

151 65.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

800000

4.62

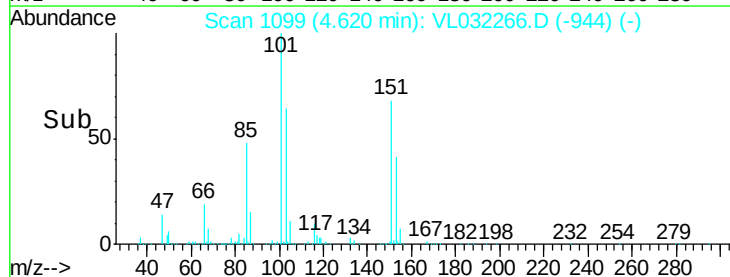
600000

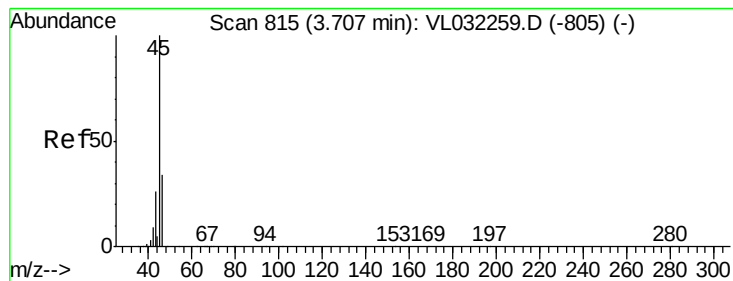
400000

200000

0

Time-->





#13

Ethanol

Concen: 9.094 ppbv

RT: 3.70 min Scan# 814

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

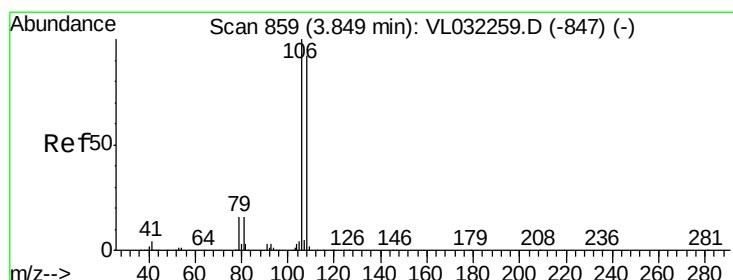
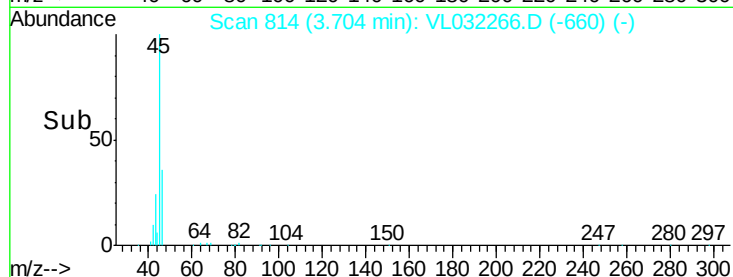
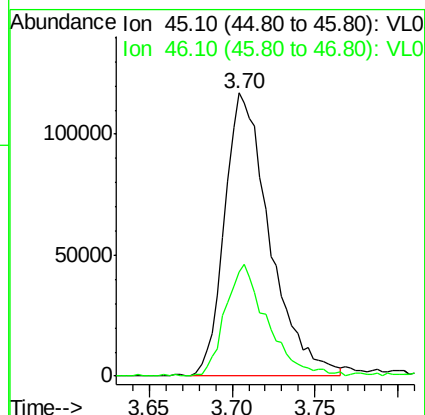
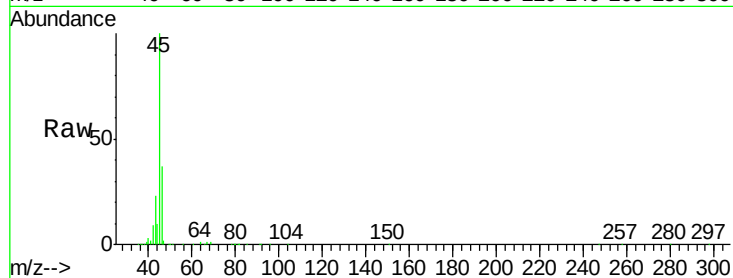
ClientSampleId :

Tot Ion: 45 Resp: 219693

Ion Ratio Lower Upper

45 100

46 37.2 15.2 60.8



#14

Bromoethene

Concen: 9.694 ppbv

RT: 3.85 min Scan# 858

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

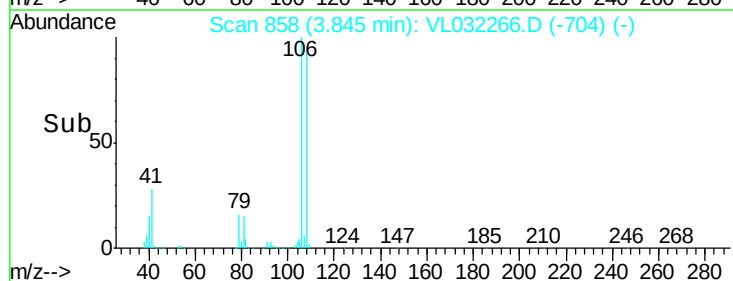
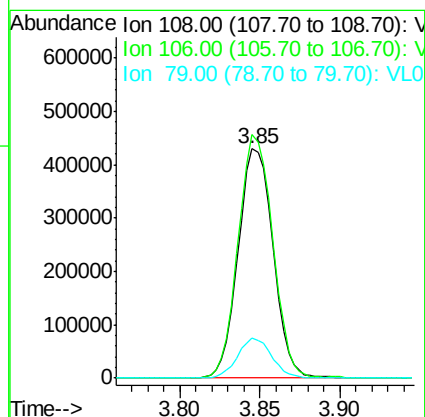
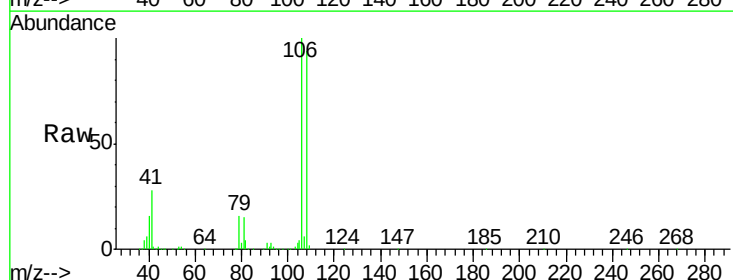
Tgt Ion: 108 Resp: 638809

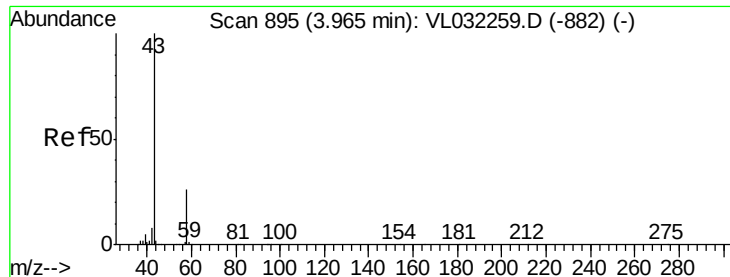
Ion Ratio Lower Upper

108 100

106 105.5 86.2 129.4

79 17.4 14.0 21.0





#15

Acetone

Concen: 8.995 ppbv

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

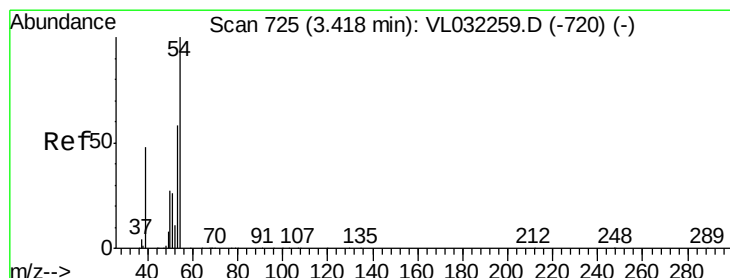
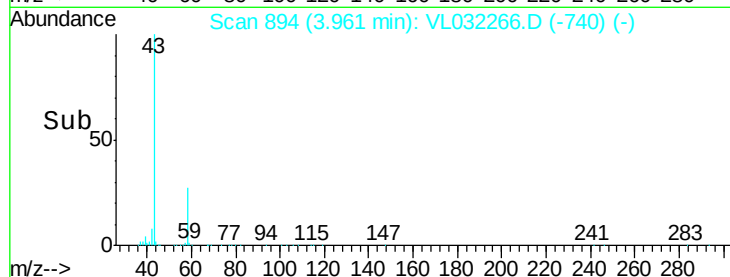
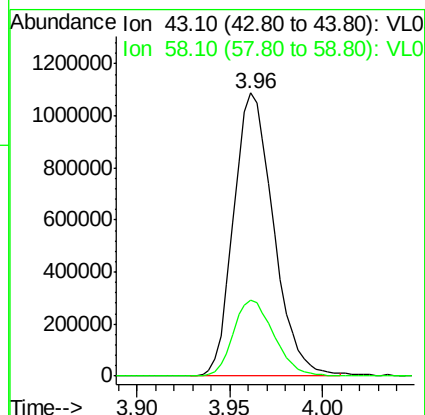
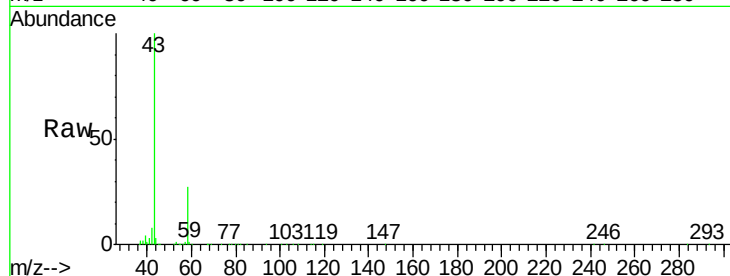
ClientSampleId :

Tot Ion: 43 Resp: 1622928

Ion Ratio Lower Upper

43 100

58 27.7 21.8 32.6



#16

1,3-Butadiene

Concen: 9.635 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VL032266.D

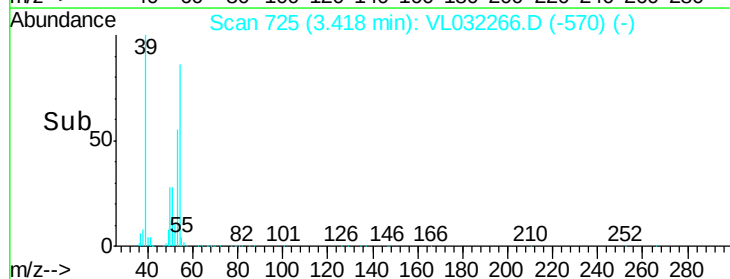
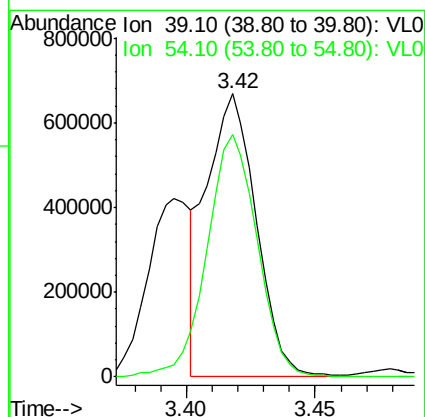
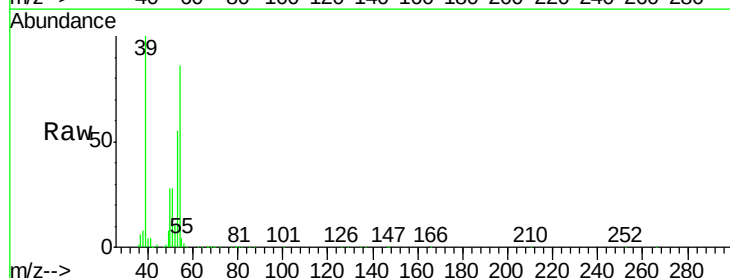
Acq: 18 Jul 2018 17:26

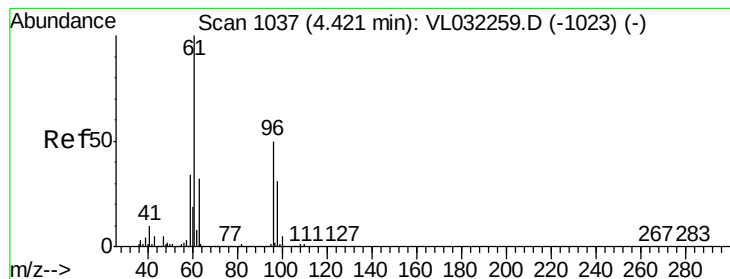
Tgt Ion: 39 Resp: 885549

Ion Ratio Lower Upper

39 100

54 88.0 70.6 105.8





#17

tert-Butyl alcohol

Concen: 10.222 ppbv

RT: 4.42 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

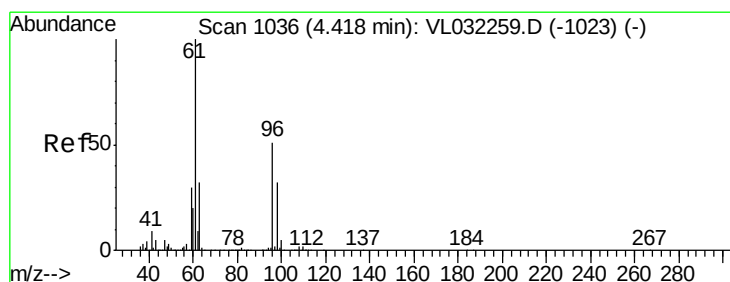
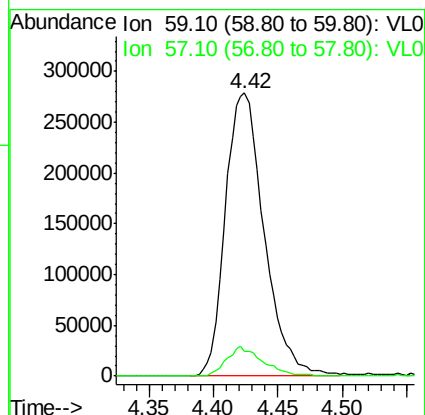
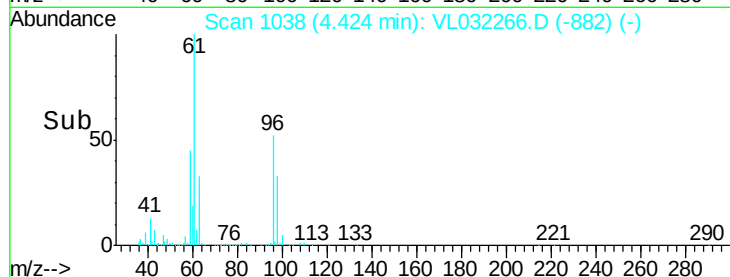
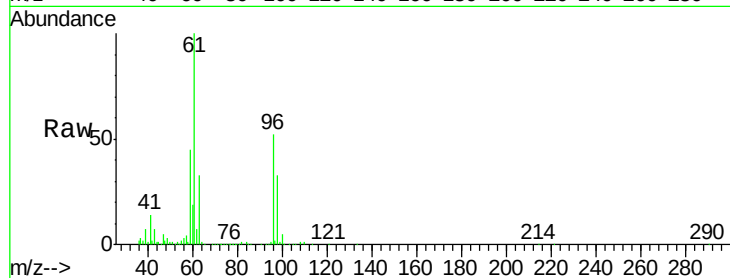
ClientSampleId :

Tot Ion: 59 Resp: 581620

Ion Ratio Lower Upper

59 100

57 9.8 8.2 12.4



#18

1,1-Dichloroethene

Concen: 9.295 ppbv

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

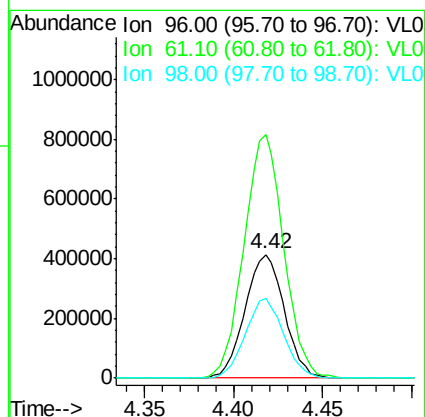
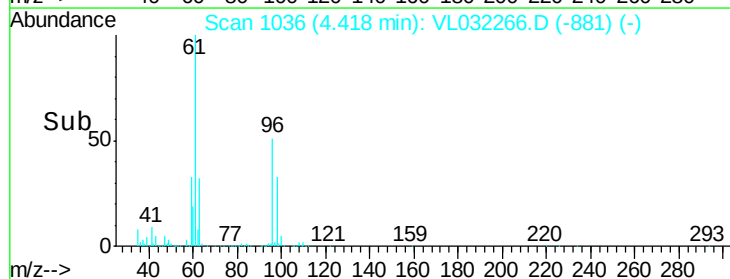
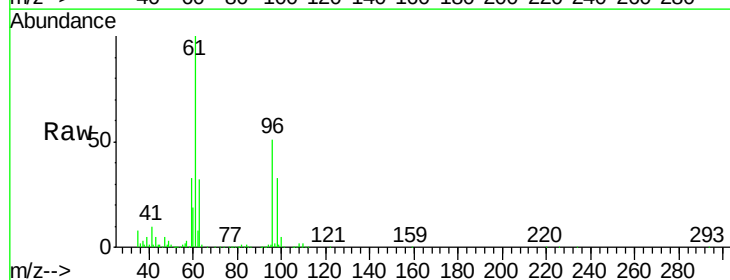
Tgt Ion: 96 Resp: 634521

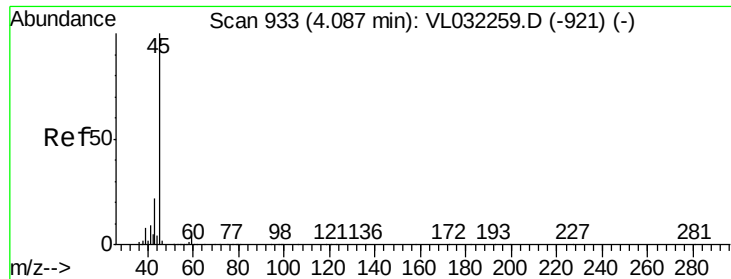
Ion Ratio Lower Upper

96 100

61 197.0 157.2 235.8

98 64.4 50.1 75.1





#19

Isopropyl Alcohol

Concen: 9.948 ppbv

RT: 4.08 min Scan# 932

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

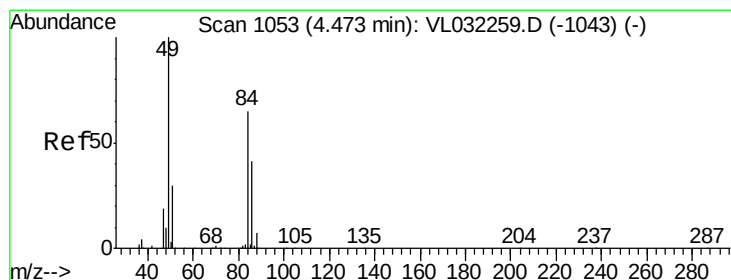
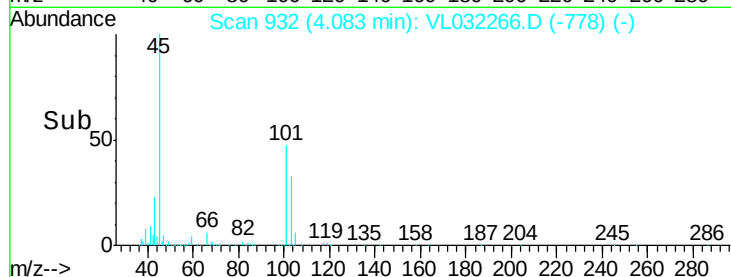
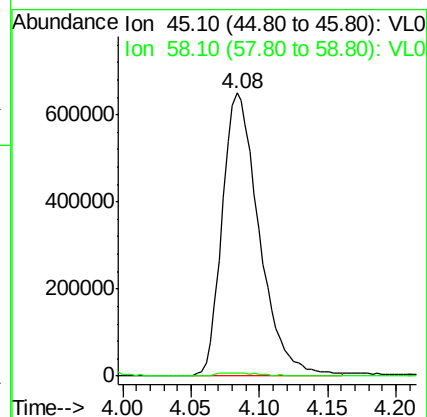
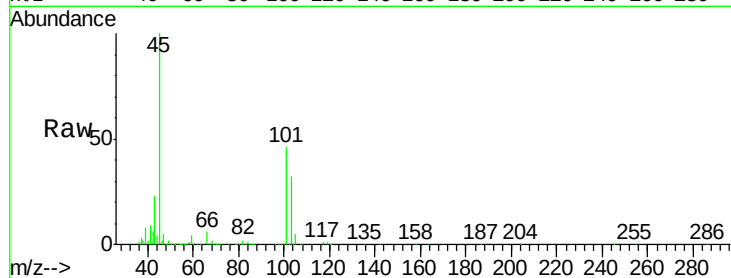
ClientSampleId :

Tot Ion: 45 Resp: 1213946

Ion Ratio Lower Upper

45 100

58 1.6 1.5 2.3



#20

Methylene Chloride

Concen: 8.235 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion: 84 Resp: 572033

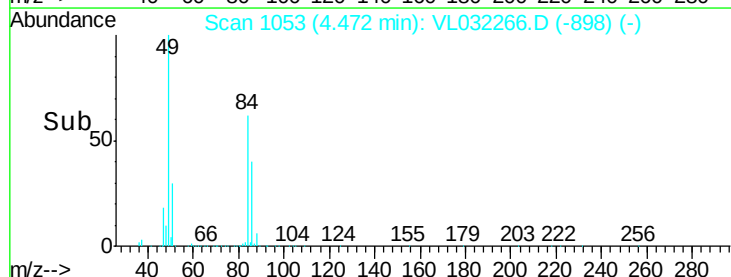
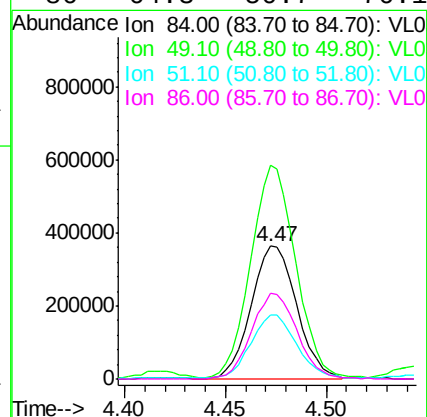
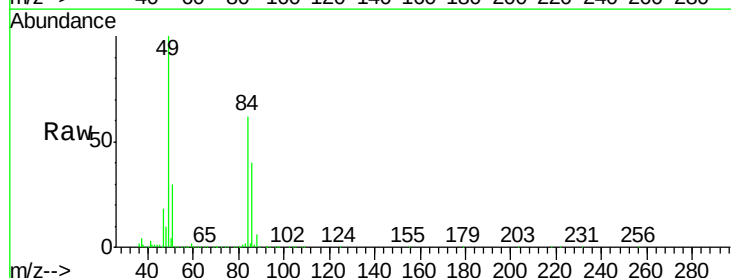
Ion Ratio Lower Upper

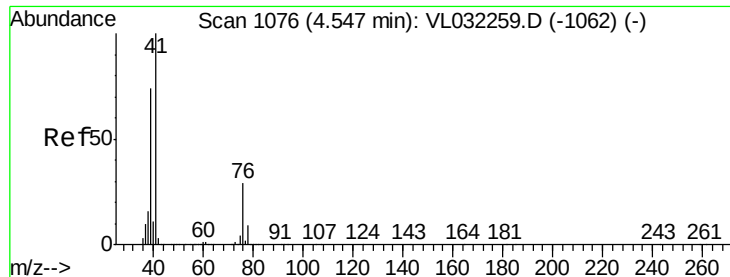
84 100

49 159.1 122.4 183.6

51 47.8 36.8 55.2

86 64.3 50.7 76.1

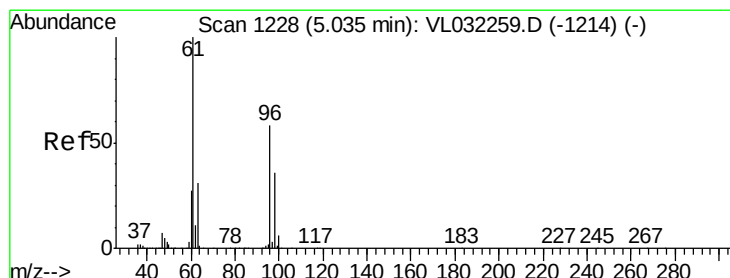
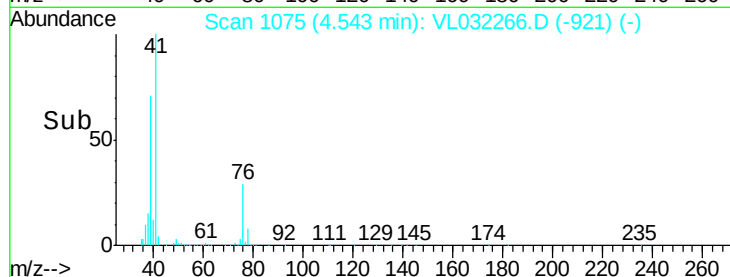
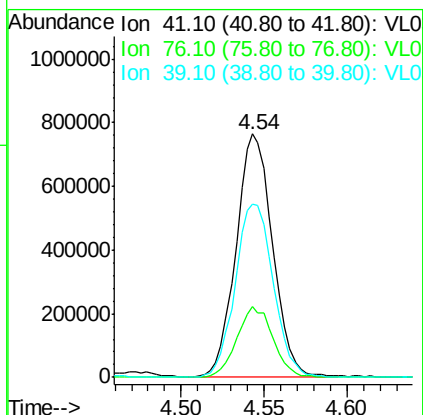
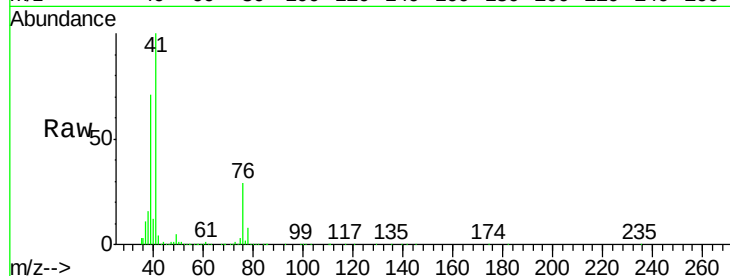




#21  
 Allvl Chloride  
 Concen: 9.781 ppbv  
 RT: 4.54 min Scan# 1075  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

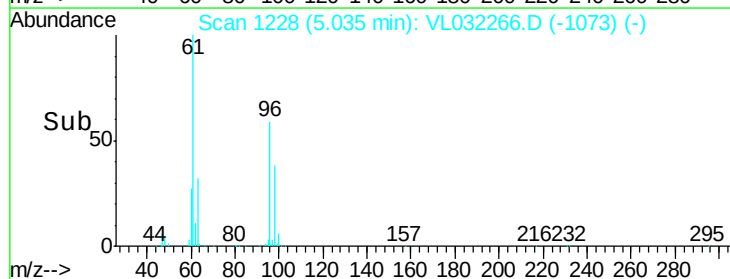
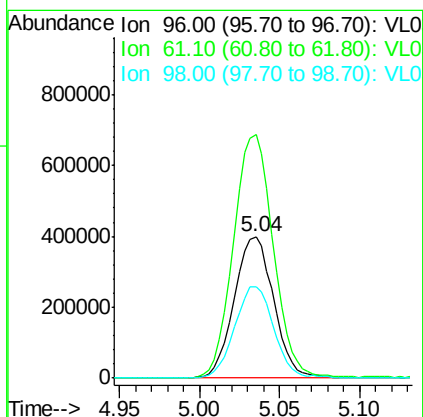
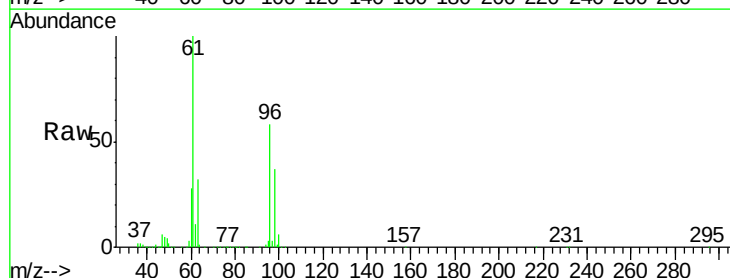
Instrument :  
 MSVOA\_L  
 ClientSampleId :

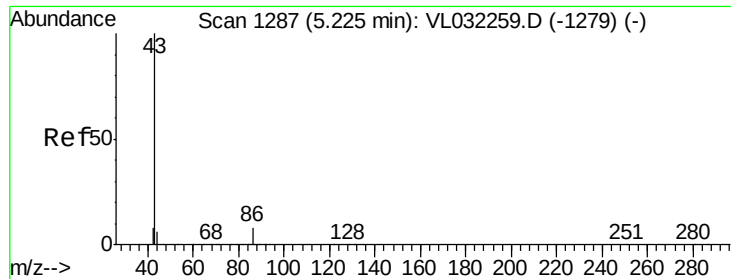
Tot Ion: 41 Resp: 1162384  
 Ion Ratio Lower Upper  
 41 100  
 76 28.9 23.0 34.6  
 39 74.6 60.2 90.4



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.433 ppbv  
 RT: 5.04 min Scan# 1228  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion: 96 Resp: 668530  
 Ion Ratio Lower Upper  
 96 100  
 61 171.7 137.4 206.0  
 98 64.1 49.6 74.4

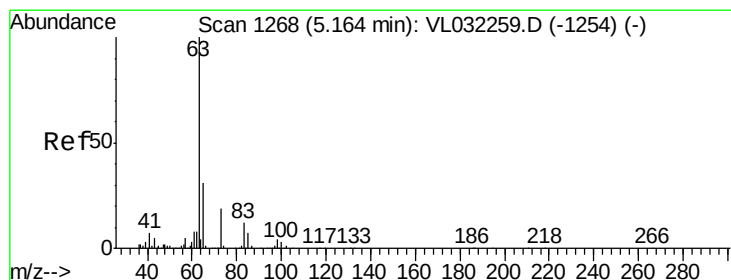
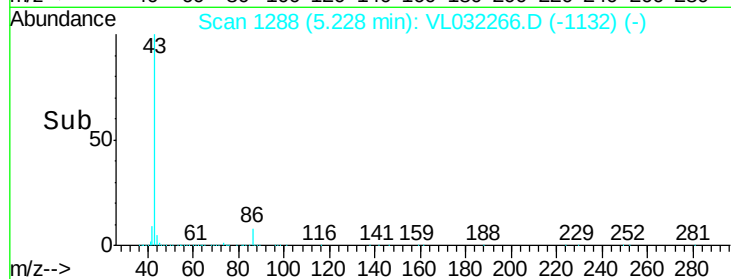
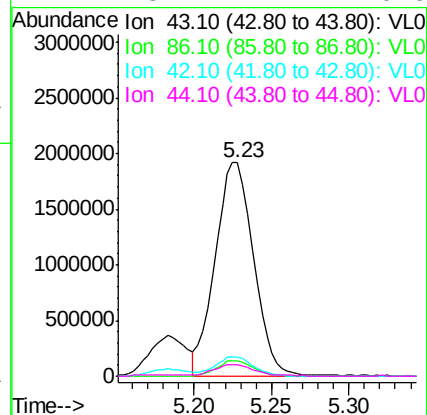
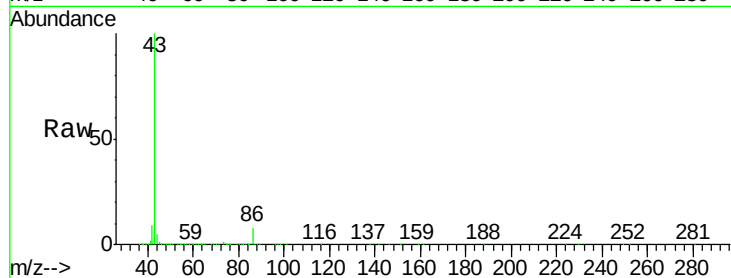




#23  
 Vinyl Acetate  
 Concen: 10.211 ppbv  
 RT: 5.23 min Scan# 1288  
 Delta R.T. 0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

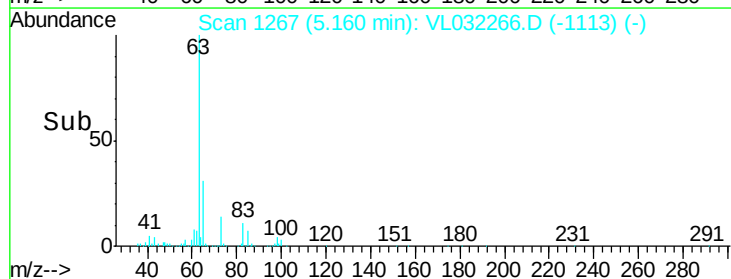
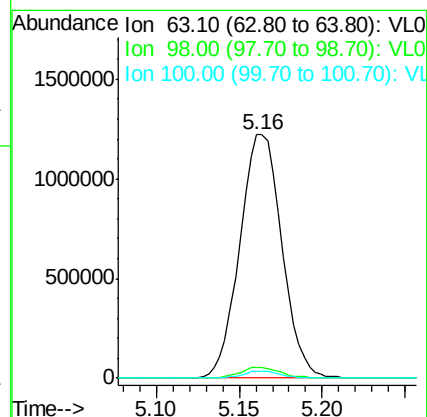
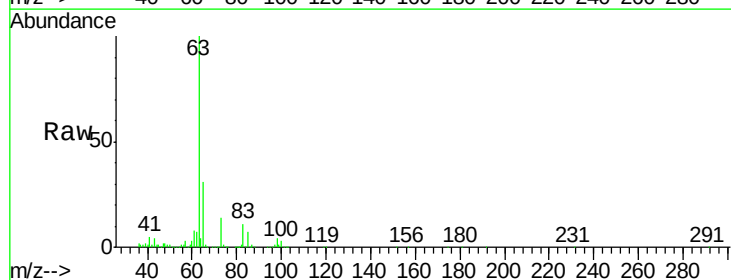
Instrument :  
 MSVOA\_L  
 ClientSampled :

Tot Ion: 43 Resp: 3304000  
 Ion Ratio Lower Upper  
 43 100  
 86 7.5 5.9 8.9  
 42 8.8 7.3 10.9  
 44 5.1 4.4 6.6

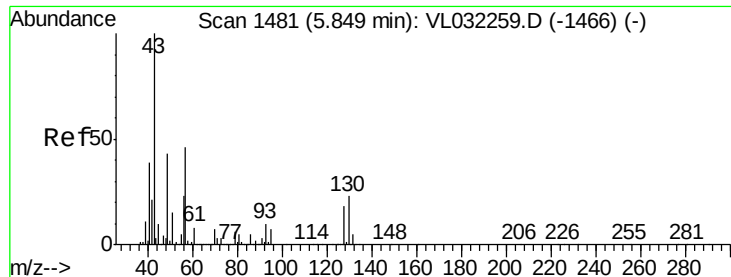


#24  
 1,1-Dichloroethane  
 Concen: 9.173 ppbv  
 RT: 5.16 min Scan# 1267  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion: 63 Resp: 2153177  
 Ion Ratio Lower Upper  
 63 100  
 98 4.3 2.1 6.3  
 100 2.8 1.3 3.9





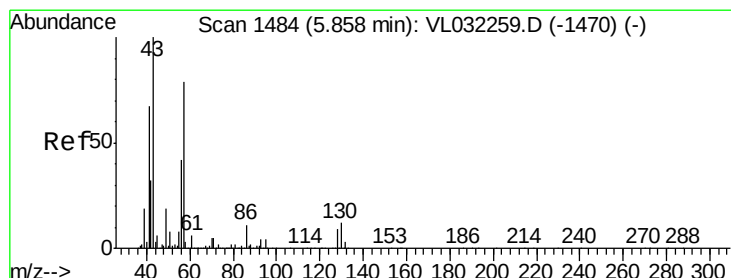
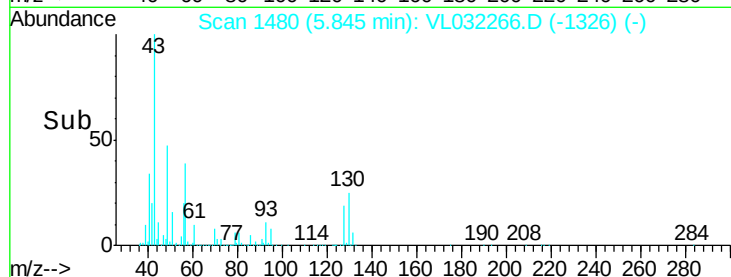
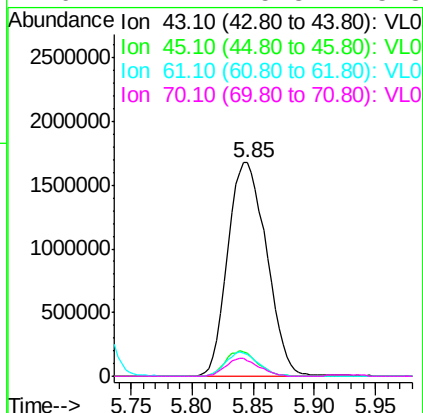
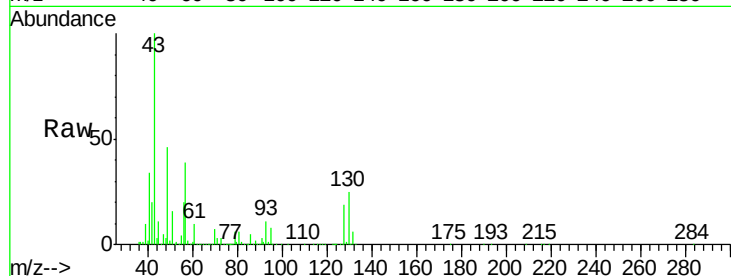


#25  
Ethyl Acetate  
Concen: 9.453 ppbv  
RT: 5.85 min Scan# 1480  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 3715235

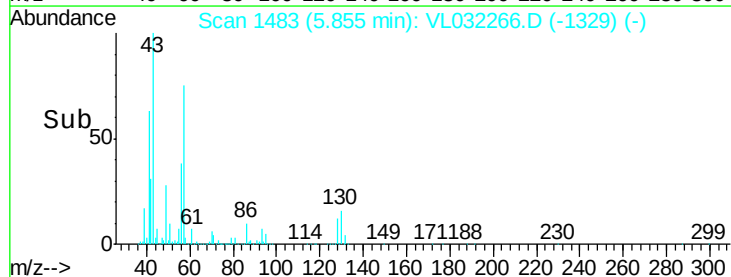
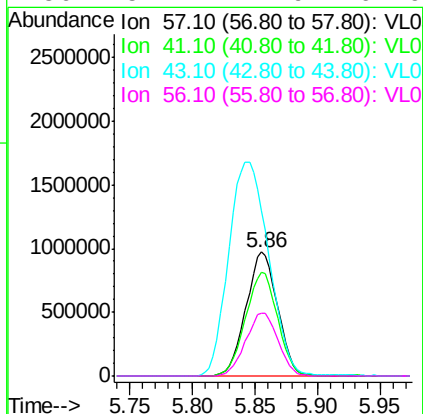
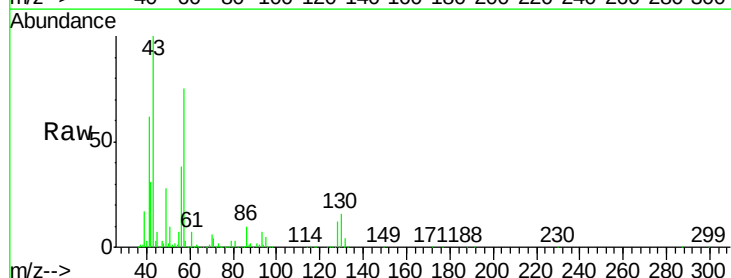
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.0  | 7.9   | 11.9  |
| 61  | 9.5   | 7.6   | 11.4  |
| 70  | 7.2   | 5.8   | 8.8   |

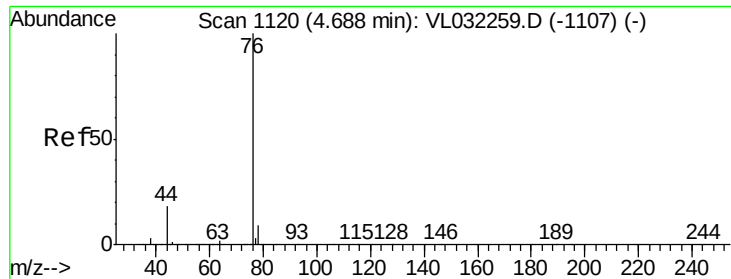


#26  
Hexane  
Concen: 9.440 ppbv  
RT: 5.86 min Scan# 1483  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion: 57 Resp: 1703844

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 85.1  | 67.9  | 101.9 |
| 43  | 219.2 | 175.9 | 263.9 |
| 56  | 52.2  | 41.9  | 62.9  |





#27

Carbon Disulfide

Concen: 10.146 ppbv

RT: 4.69 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampleId :

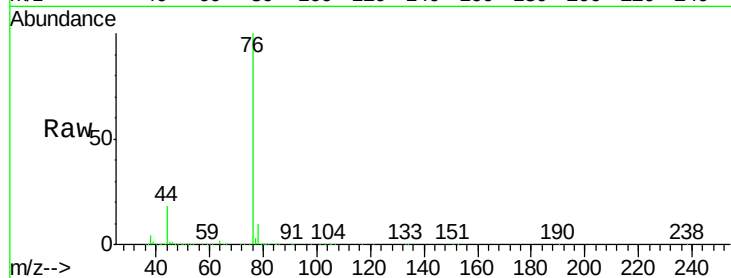
Tot Ion: 76 Resp: 1621558

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 18.5  | 14.3  | 21.5  |
| 78  | 9.4   | 7.4   | 11.0  |

76 100

44 18.5 14.3 21.5

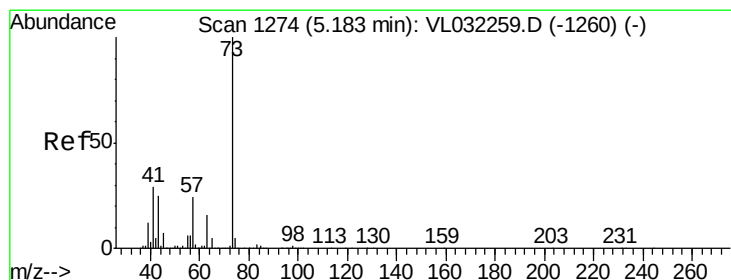
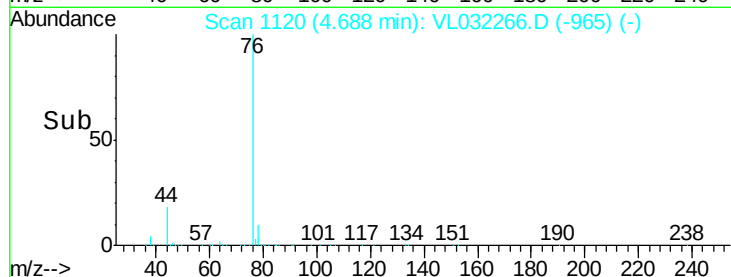
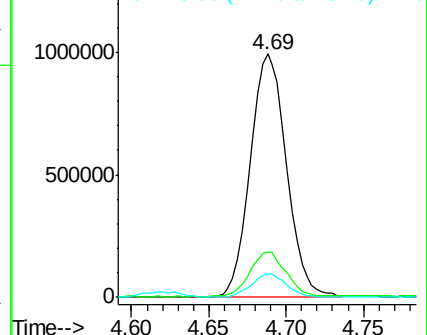
78 9.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.923 ppbv

RT: 5.18 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VL032266.D

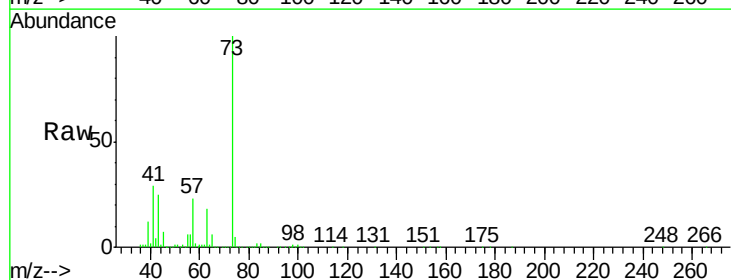
Acq: 18 Jul 2018 17:26

Tgt Ion: 73 Resp: 2655273

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 23.7  | 19.3  | 28.9  |

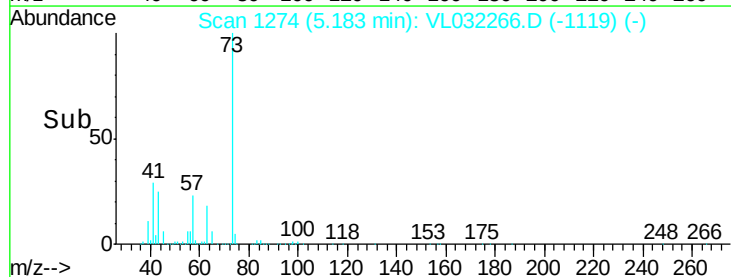
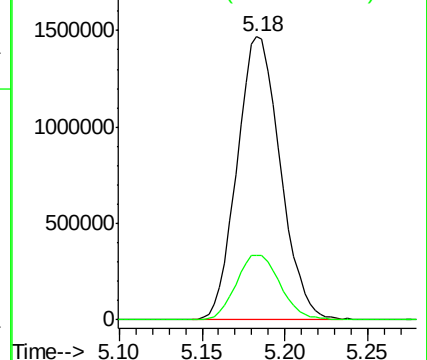
73 100

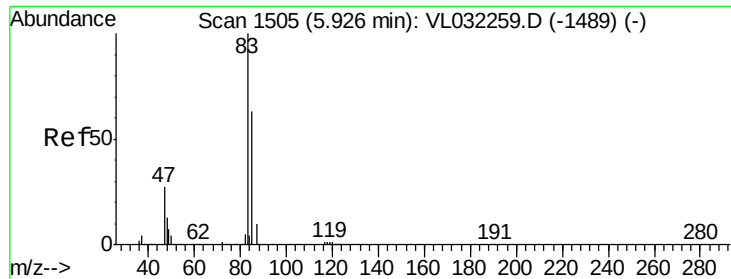
57 23.7 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

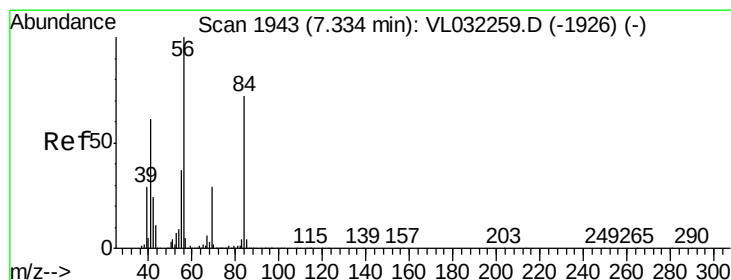
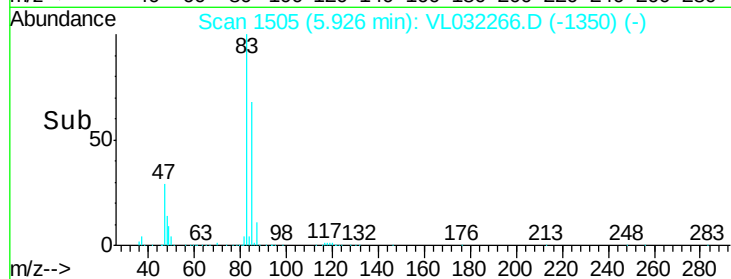
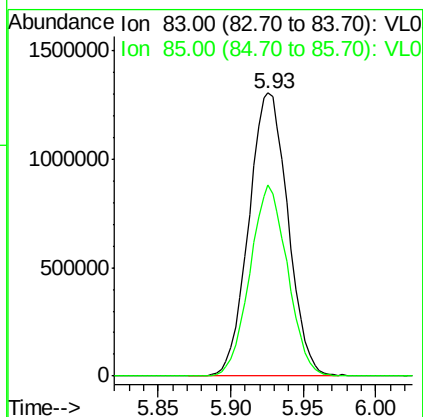
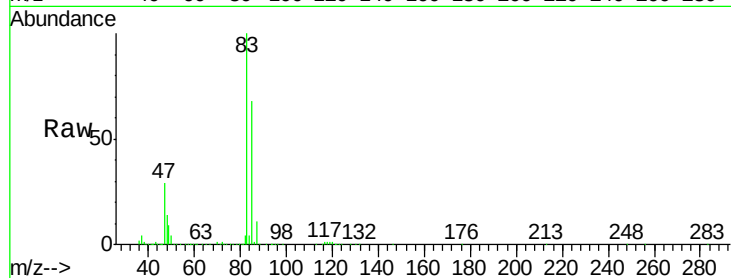




#29  
Chloroform  
Concen: 9.184 ppbv  
RT: 5.93 min Scan# 1505  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

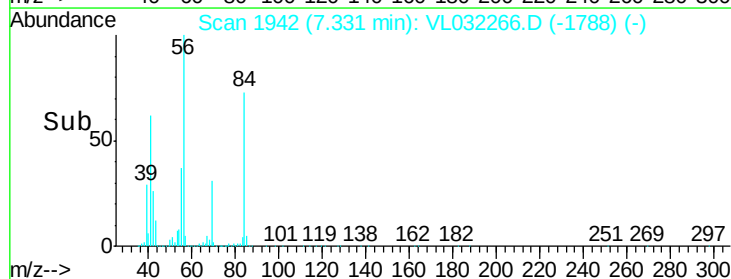
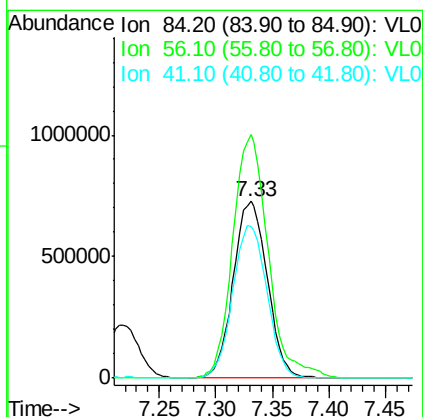
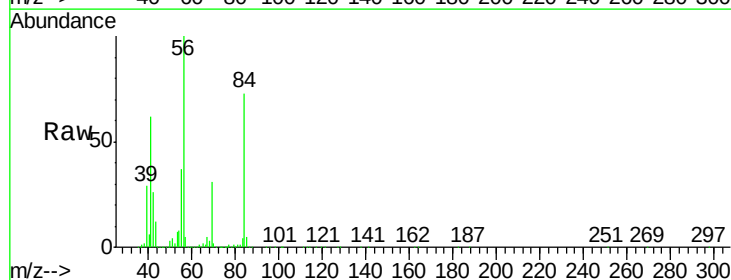
Instrument :  
MSVOA\_L  
ClientSampleId :

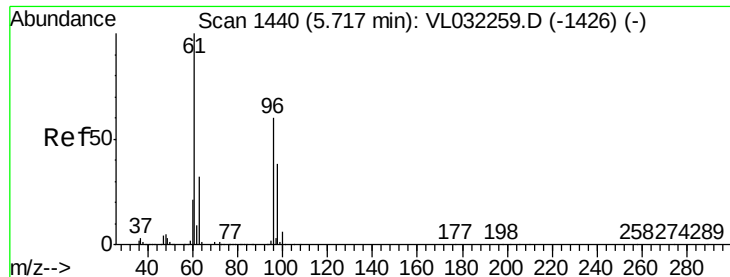
Tot Ion: 83 Resp: 2444087  
Ion Ratio Lower Upper  
83 100  
85 67.4 50.7 76.1



#30  
Cyclohexane  
Concen: 10.096 ppbv  
RT: 7.33 min Scan# 1942  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion: 84 Resp: 1528952  
Ion Ratio Lower Upper  
84 100  
56 143.3 115.6 173.4  
41 86.6 68.7 103.1





#31

cis-1,2-Dichloroethene

Concen: 10.079 ppbv

RT: 5.72 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampleId :

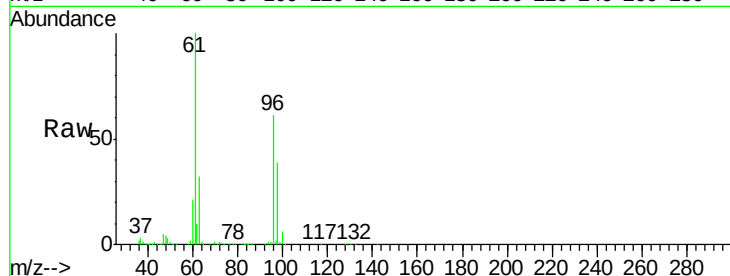
Tot Ion: 61 Resp: 1744073

Ion Ratio Lower Upper

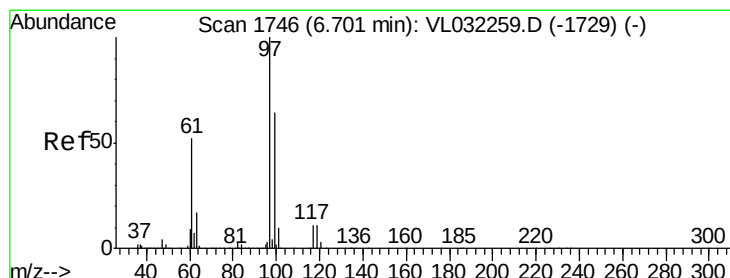
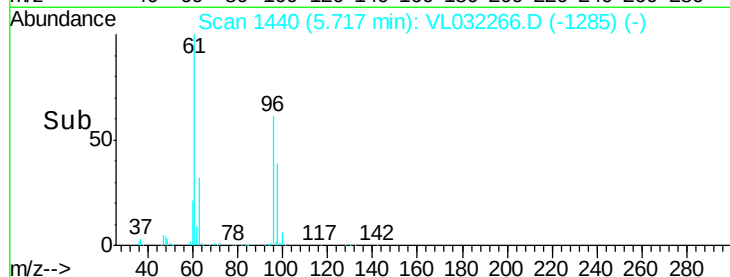
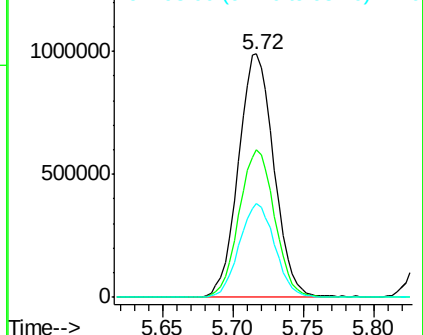
61 100

96 60.9 47.9 71.9

98 38.6 30.5 45.7



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: 9.032 ppbv

RT: 6.70 min Scan# 1746

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

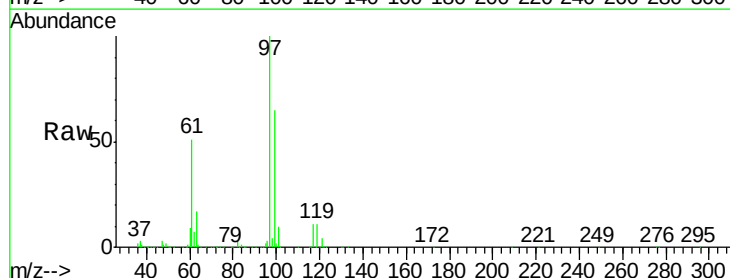
Tgt Ion: 97 Resp: 2431725

Ion Ratio Lower Upper

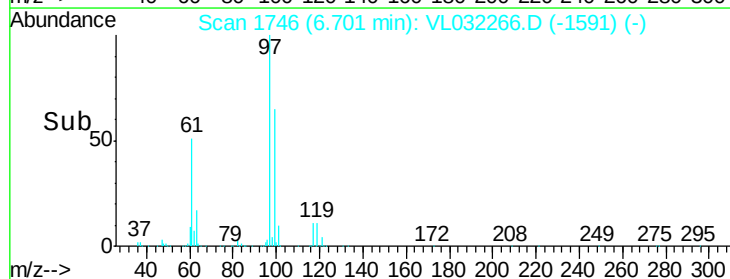
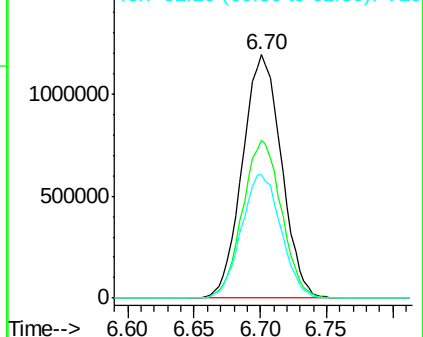
97 100

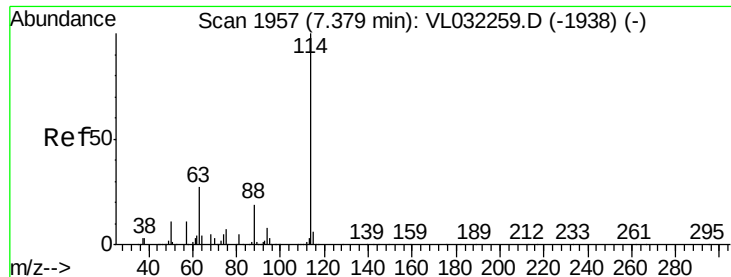
99 64.6 51.0 76.6

61 51.8 41.2 61.8



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

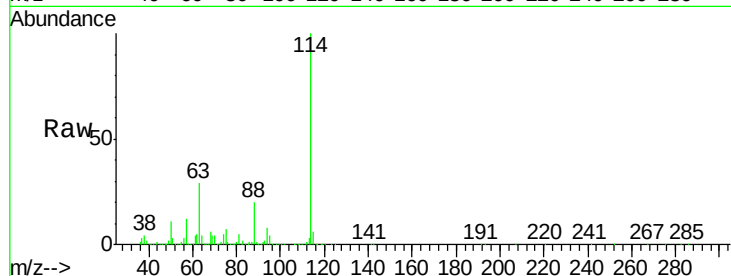




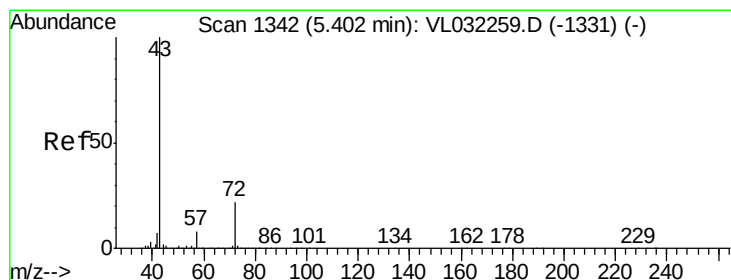
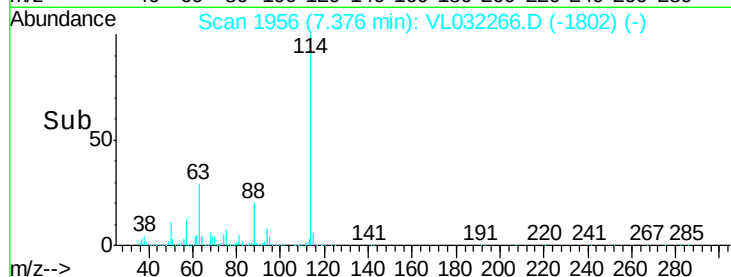
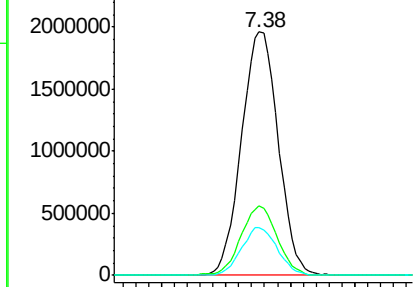
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.38 min Scan# 1956  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:114 Resp: 3895410  
 Ion Ratio Lower Upper  
 114 100  
 63 28.2 22.6 33.8  
 88 19.2 15.2 22.8

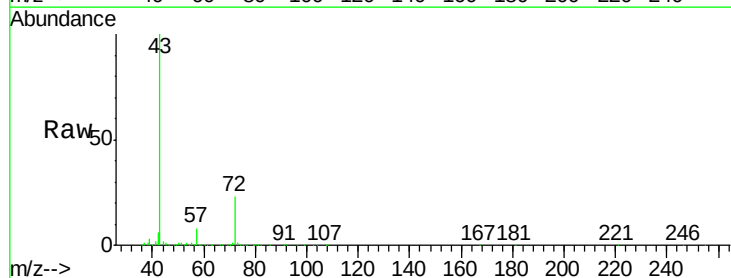


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

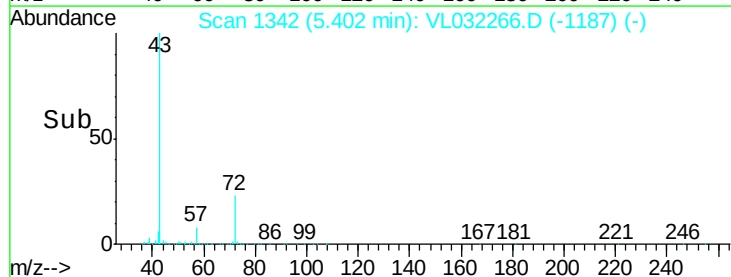
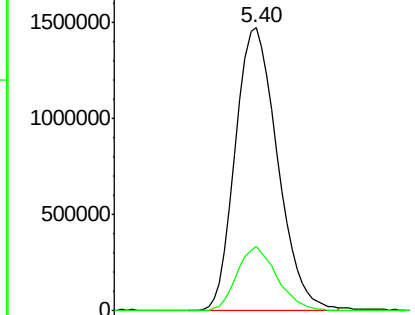


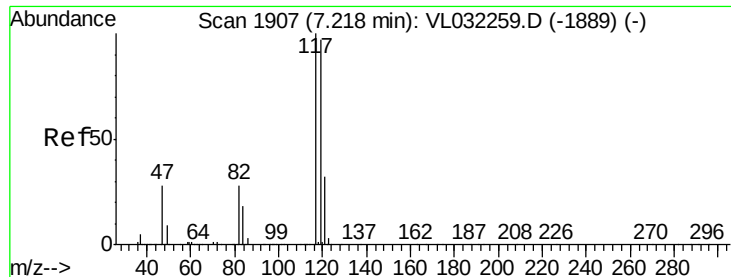
#34  
 2-Butanone  
 Concen: 9.859 ppbv  
 RT: 5.40 min Scan# 1342  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion: 43 Resp: 2635199  
 Ion Ratio Lower Upper  
 43 100  
 72 21.9 17.7 26.5



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

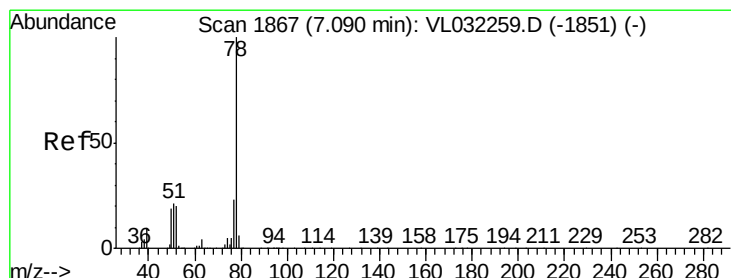
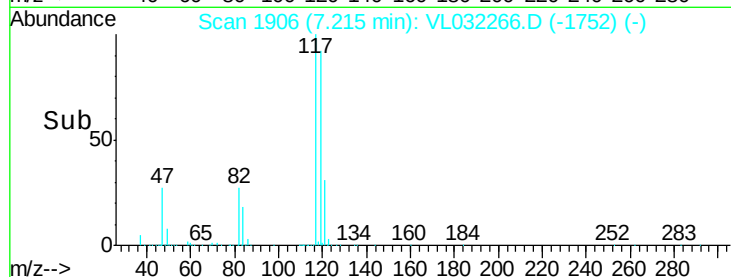
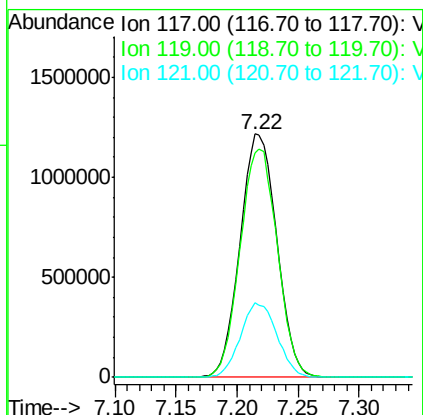
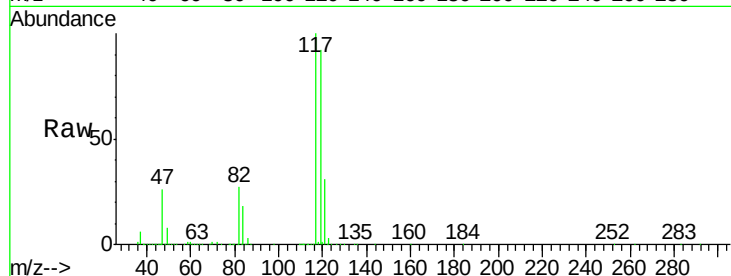




#35  
Carbon Tetrachloride  
Concen: 9.430 ppbv  
RT: 7.22 min Scan# 1906  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

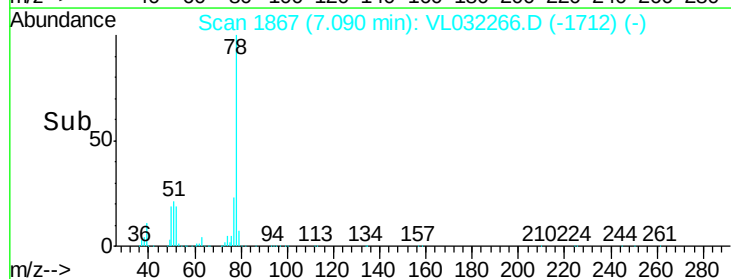
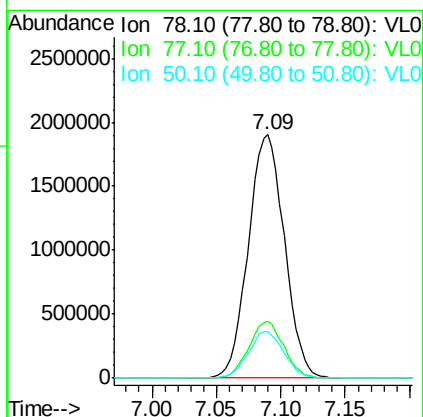
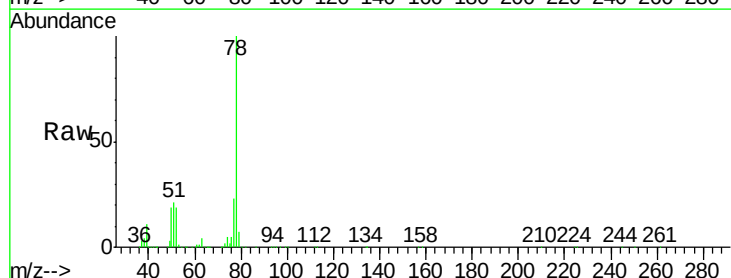
Instrument :  
MSVOA\_L  
ClientSampleId :

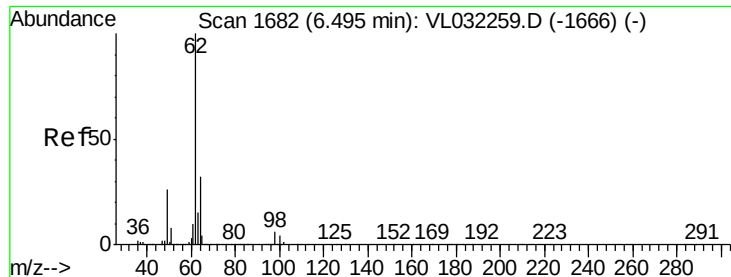
Tot Ion:117 Resp: 2526488  
Ion Ratio Lower Upper  
117 100  
119 92.3 77.4 116.0  
121 30.8 25.4 38.2



#36  
Benzene  
Concen: 9.712 ppbv  
RT: 7.09 min Scan# 1867  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion: 78 Resp: 3723916  
Ion Ratio Lower Upper  
78 100  
77 23.0 18.6 27.8  
50 19.3 15.0 22.6





#37

1,2-Dichloroethane

Concen: 8.728 ppbv

RT: 6.49 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

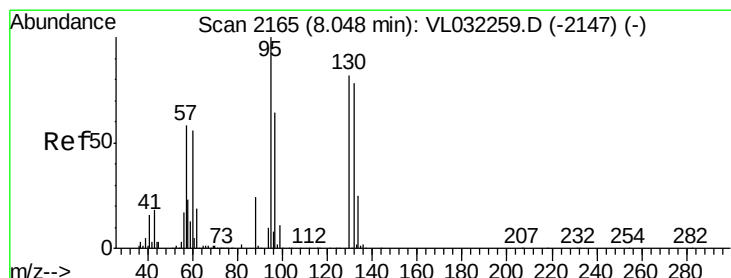
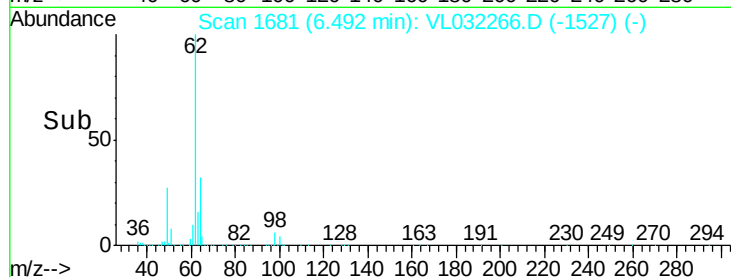
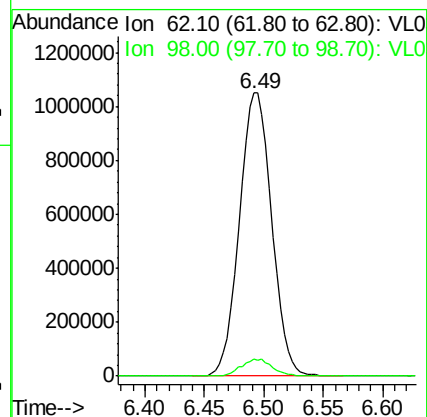
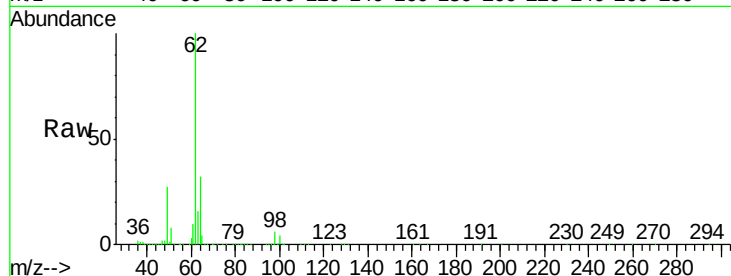
ClientSampleId :

Tot Ion: 62 Resp: 1977001

Ion Ratio Lower Upper

62 100

98 5.9 4.9 7.3



#38

Trichloroethene

Concen: 9.582 ppbv

RT: 8.05 min Scan# 2165

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion:130 Resp: 1215531

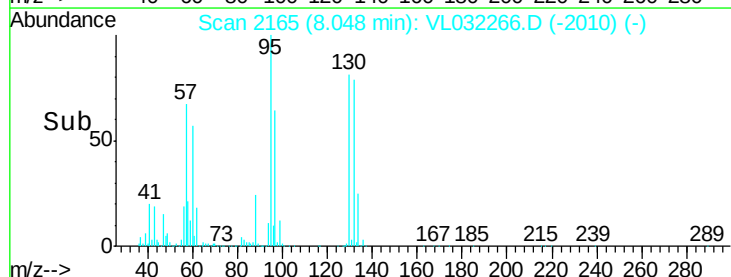
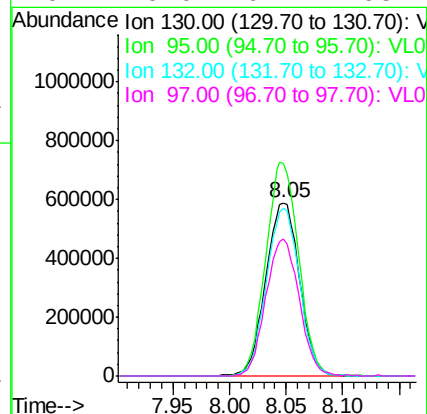
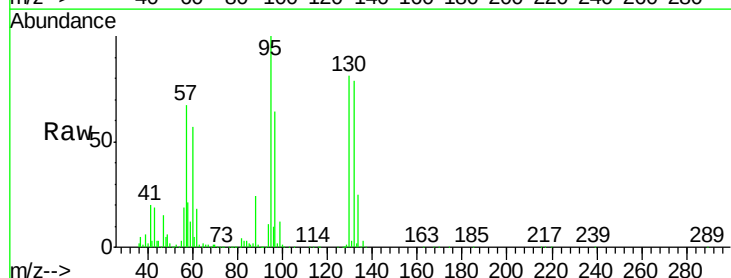
Ion Ratio Lower Upper

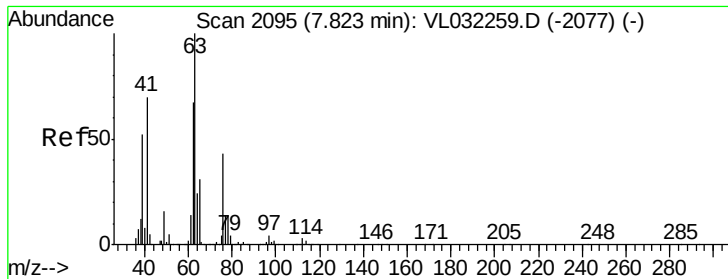
130 100

95 123.0 97.1 145.7

132 97.1 75.6 113.4

97 79.0 62.1 93.1





#39

1,2-Dichloropropane

Concen: 9.918 ppbv

RT: 7.82 min Scan# 2094

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampleId :

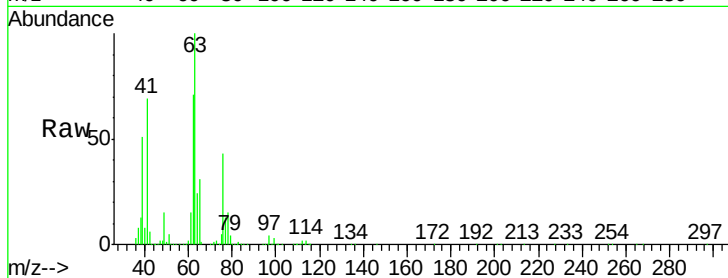
Tot Ion: 63 Resp: 1505649

Ion Ratio Lower Upper

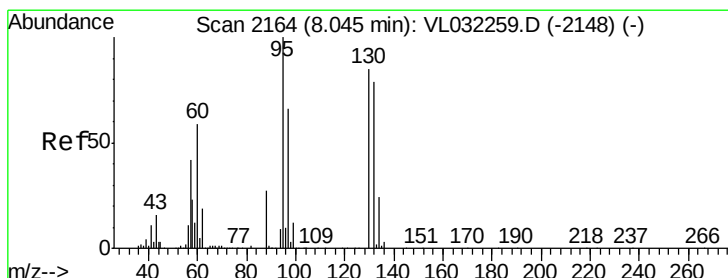
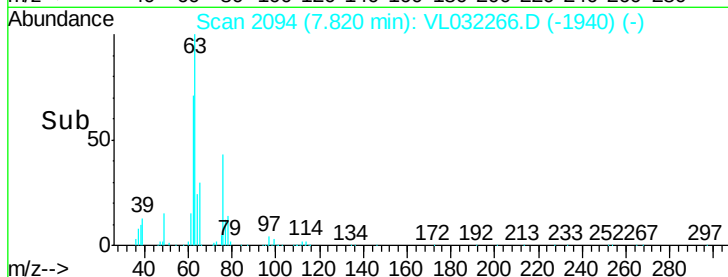
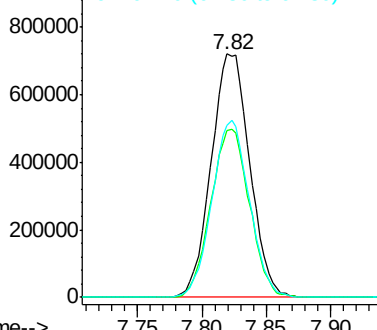
63 100

41 68.6 55.8 83.6

62 70.4 53.8 80.8



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: 10.302 ppbv

RT: 8.04 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion: 88 Resp: 461910

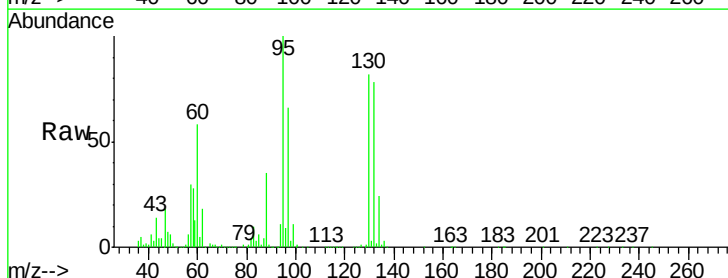
Ion Ratio Lower Upper

88 100

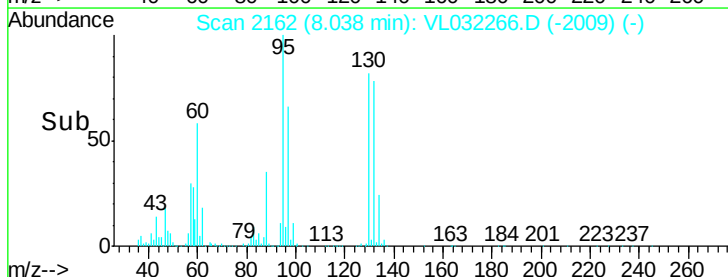
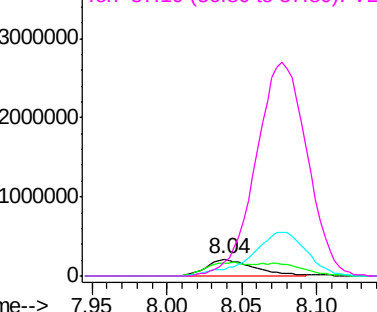
58 149.1 60.9 91.3#

43 0.0 0.0 0.0

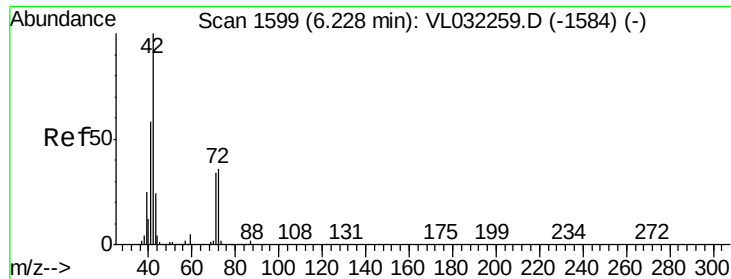
57 0.0 0.0 0.0



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



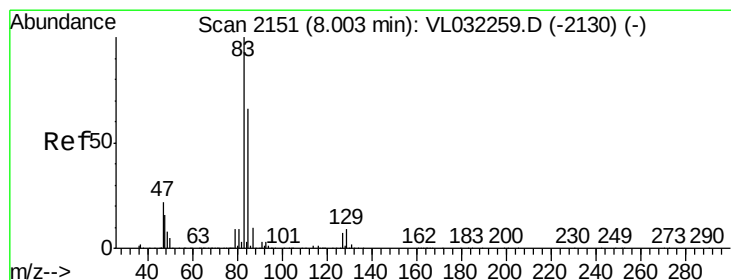
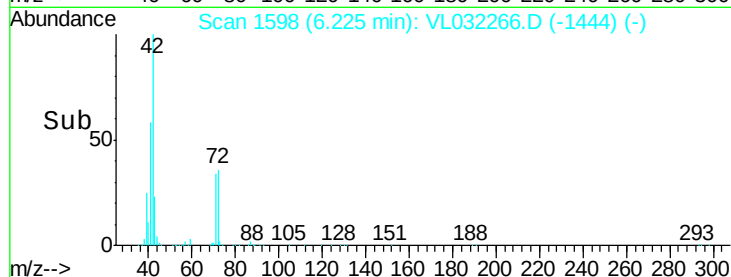
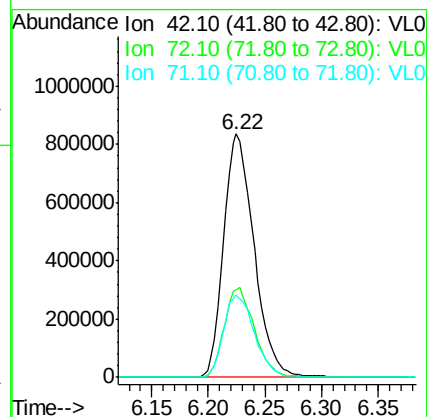
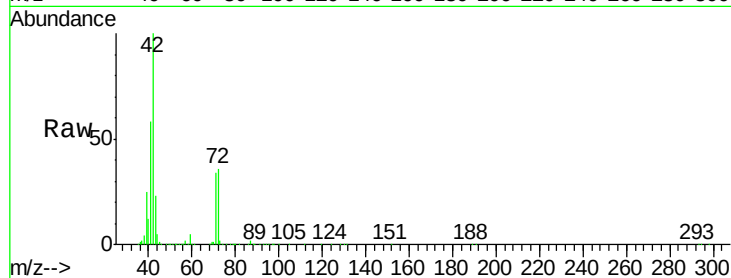




#41  
Tetrahydrofuran  
Concen: 10.019 ppbv  
RT: 6.22 min Scan# 1598  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

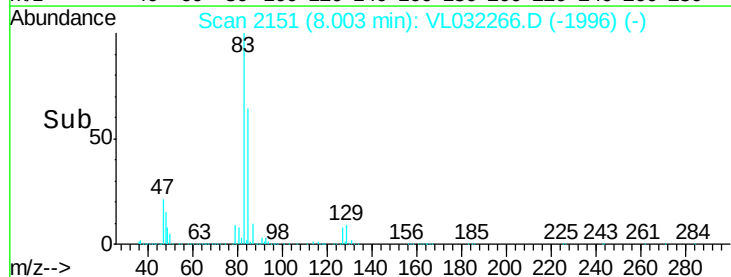
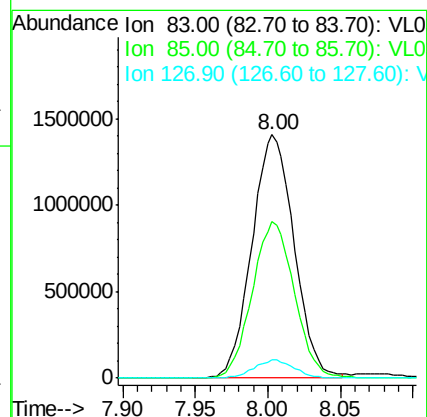
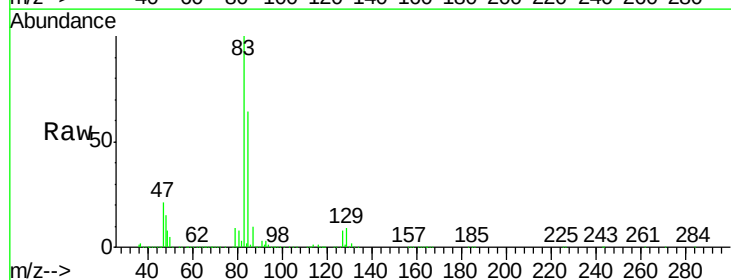
Instrument :  
MSVOA\_L  
ClientSampled :

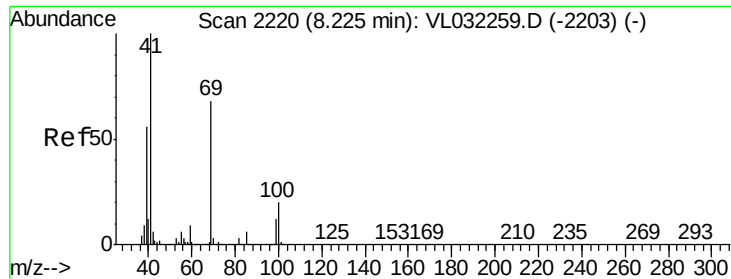
Tot Ion: 42 Resp: 1562324  
Ion Ratio Lower Upper  
42 100  
72 36.9 29.4 44.0  
71 34.5 28.2 42.4



#42  
Bromodichloromethane  
Concen: 9.981 ppbv  
RT: 8.00 min Scan# 2151  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion: 83 Resp: 2846445  
Ion Ratio Lower Upper  
83 100  
85 64.4 53.0 79.4  
127 7.7 5.7 8.5

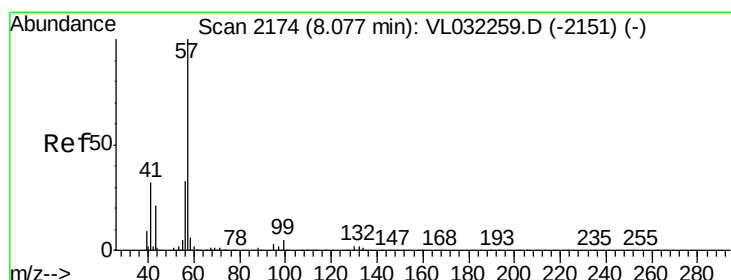
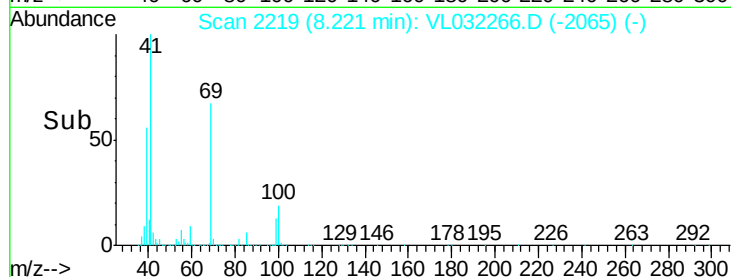
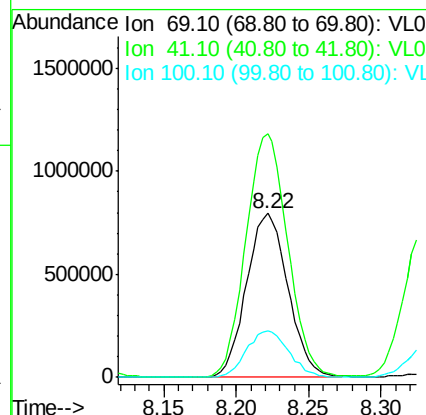
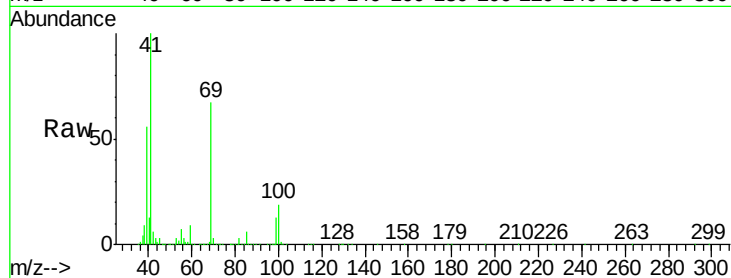




#43  
Methyl Methacrylate  
Concen: 10.107 ppbv  
RT: 8.22 min Scan# 2219  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

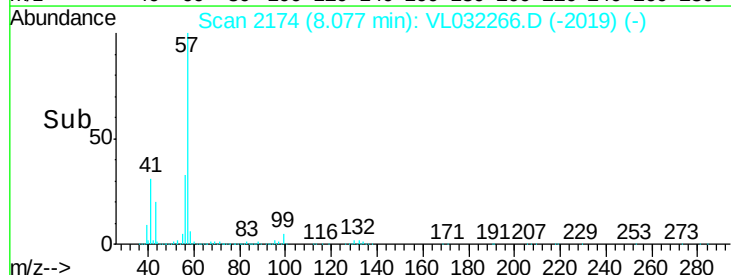
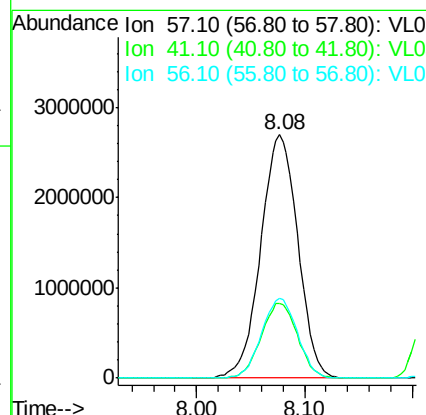
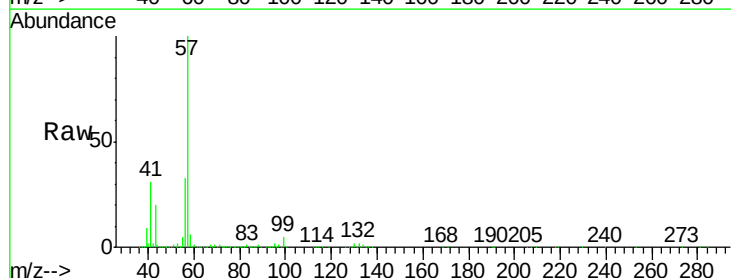
Instrument :  
MSVOA\_L  
ClientSampleId :

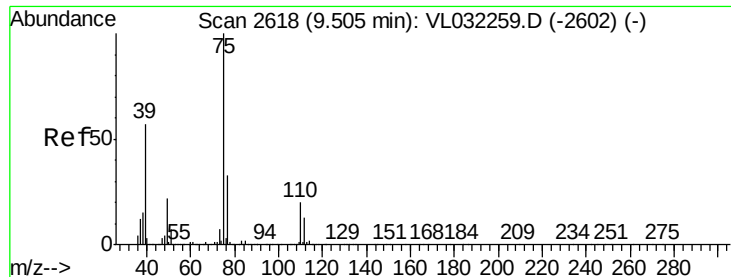
Tot Ion: 69 Resp: 1588289  
Ion Ratio Lower Upper  
69 100  
41 149.4 118.6 177.8  
100 29.0 23.3 34.9



#44  
2,2,4-Trimethylpentane  
Concen: 9.615 ppbv  
RT: 8.08 min Scan# 2174  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion: 57 Resp: 6425483  
Ion Ratio Lower Upper  
57 100  
41 30.3 24.4 36.6  
56 31.8 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 11.000 ppbv

RT: 9.50 min Scan# 2618

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

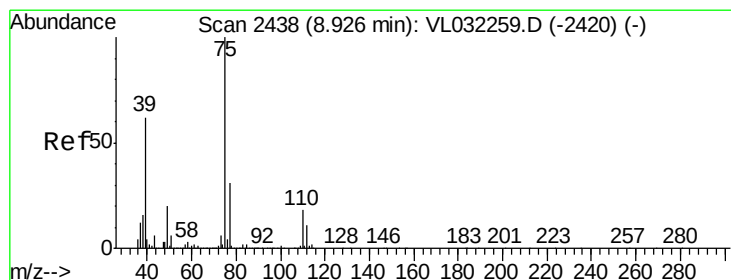
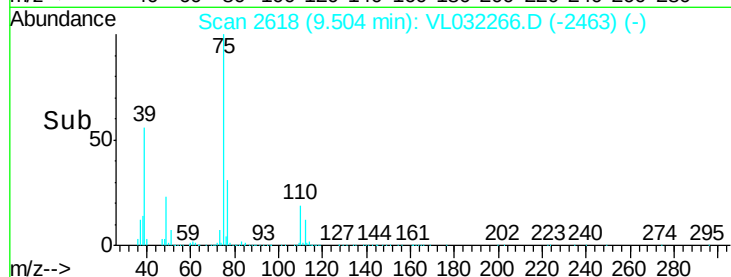
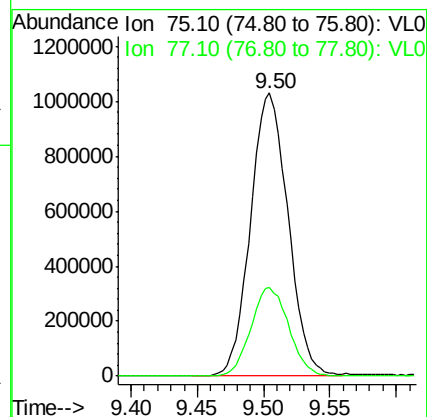
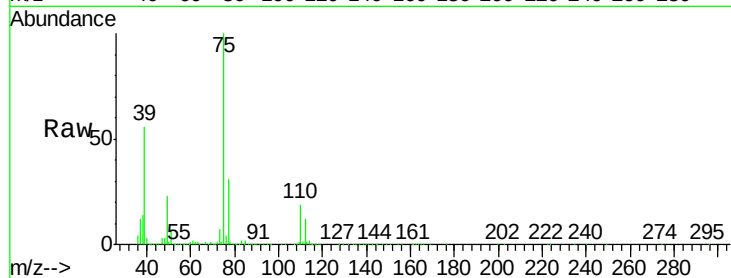
Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 75 Resp: 2036933

Ion Ratio Lower Upper

75 100

77 31.5 26.2 39.4



#46

cis-1,3-Dichloropropene

Concen: 10.140 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

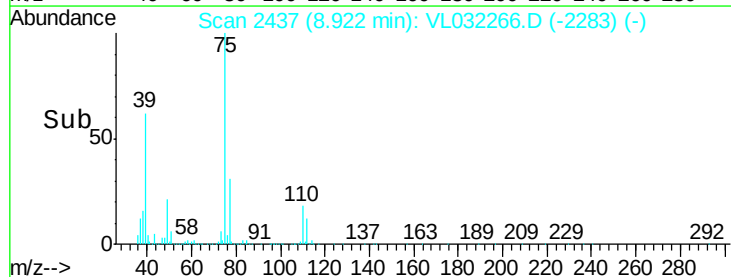
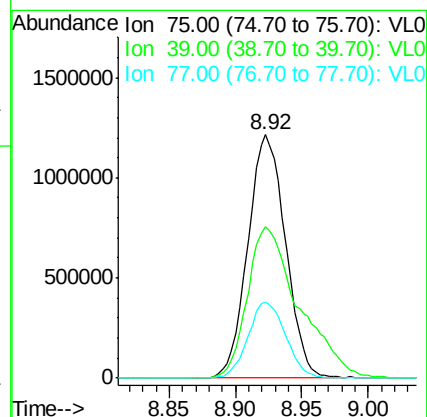
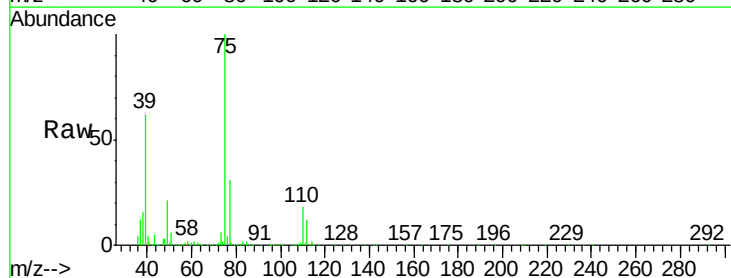
Tgt Ion: 75 Resp: 2394800

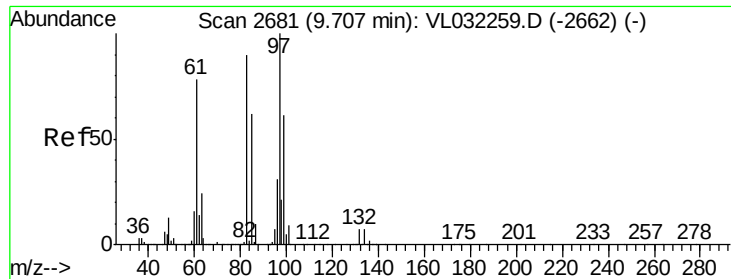
Ion Ratio Lower Upper

75 100

39 62.2 49.9 74.9

77 31.3 25.0 37.4



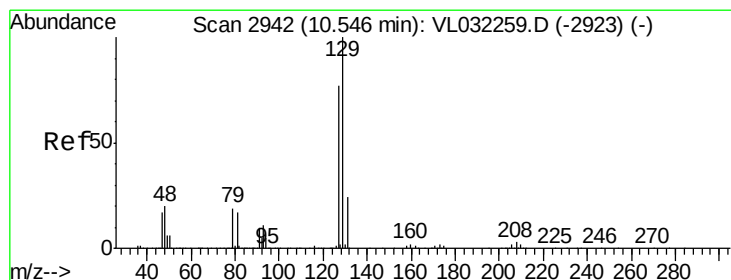
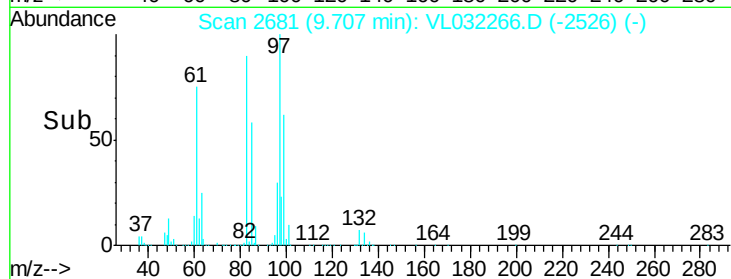
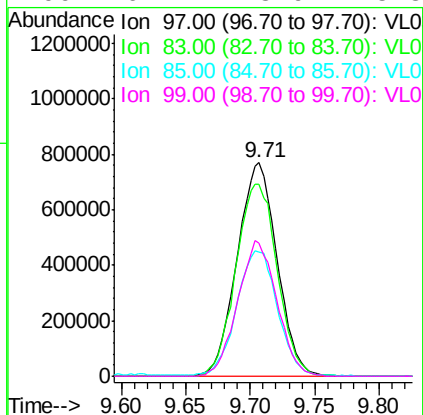
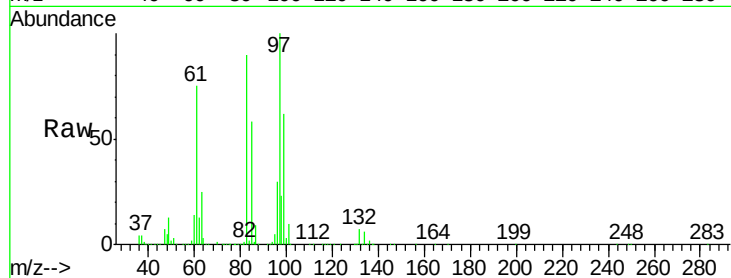


#47  
 1,1,2-Trichloroethane  
 Concen: 10.077 ppbv  
 RT: 9.71 min Scan# 2681  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Instrument :  
 MSVOA\_L  
 ClientSampled :

Tot Ion: 97 Resp: 1653164

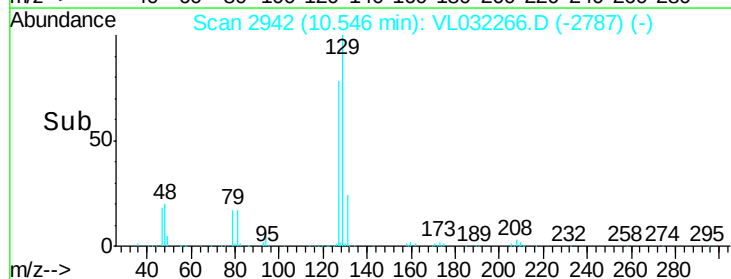
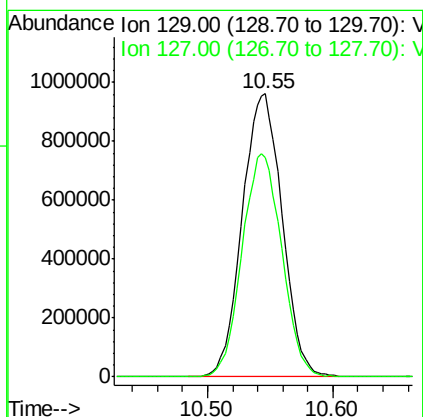
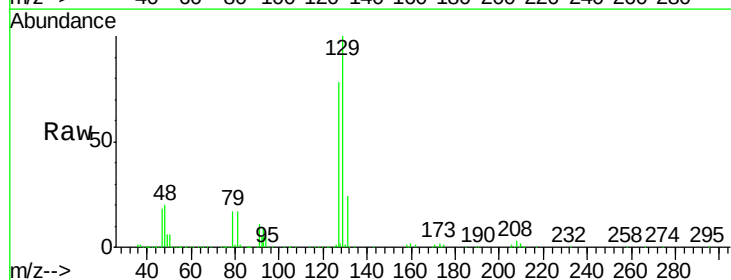
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 89.8  | 72.3  | 108.5 |
| 85  | 58.1  | 49.5  | 74.3  |
| 99  | 62.1  | 48.9  | 73.3  |

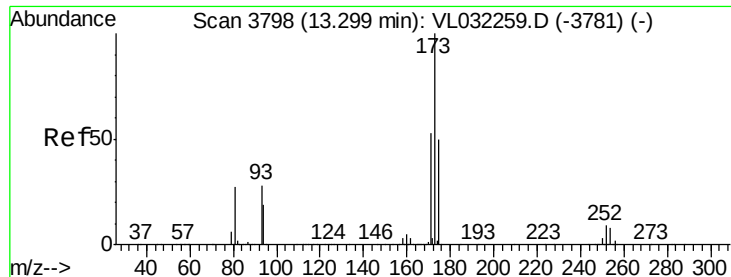


#48  
 Dibromochloromethane  
 Concen: 8.868 ppbv  
 RT: 10.55 min Scan# 2942  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion: 129 Resp: 2121872

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.8  | 39.1  | 117.3 |





#49

Bromoform

Concen: 9.898 ppbv

RT: 13.30 min Scan# 3797

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampled :

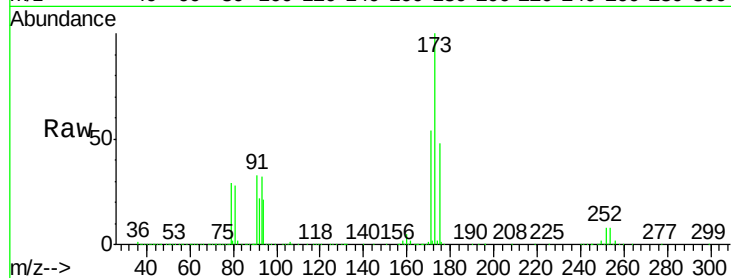
Tot Ion:173 Resp: 2066781

Ion Ratio Lower Upper

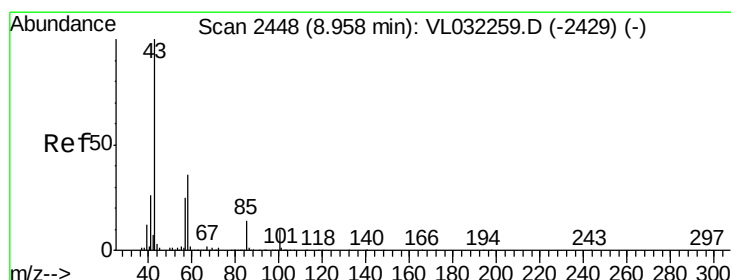
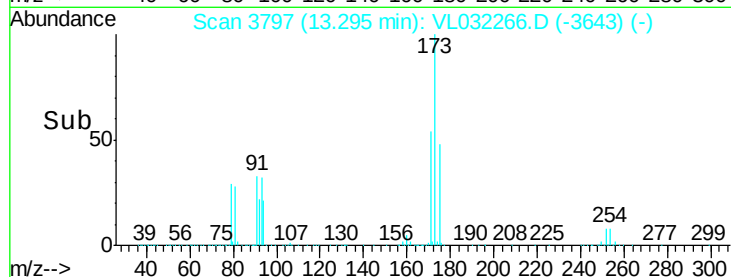
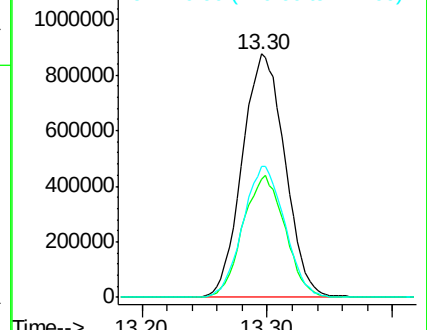
173 100

175 49.5 39.0 58.6

171 53.2 41.6 62.4



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: 9.283 ppbv

RT: 8.96 min Scan# 2448

Delta R.T. -0.00 min

Lab File: VL032266.D

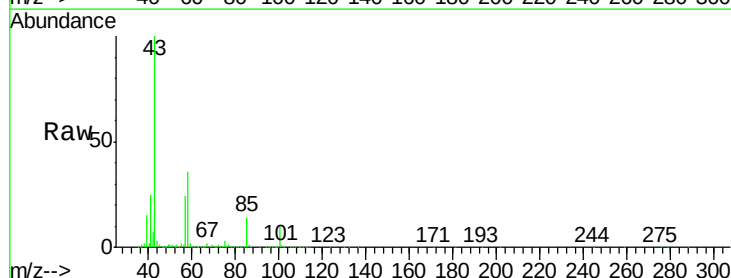
Acq: 18 Jul 2018 17:26

Tgt Ion: 43 Resp: 4083005

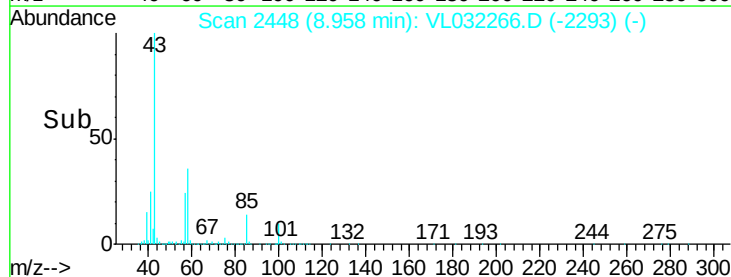
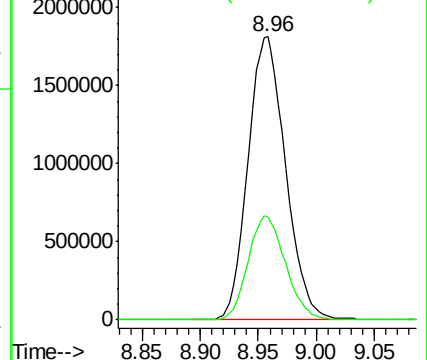
Ion Ratio Lower Upper

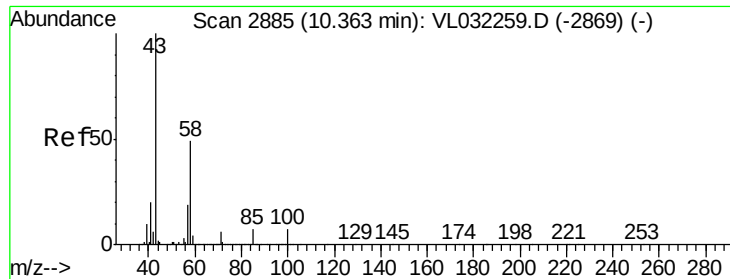
43 100

58 36.5 29.2 43.8



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





#51

2-Hexanone

Concen: 9.222 ppbv

RT: 10.36 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

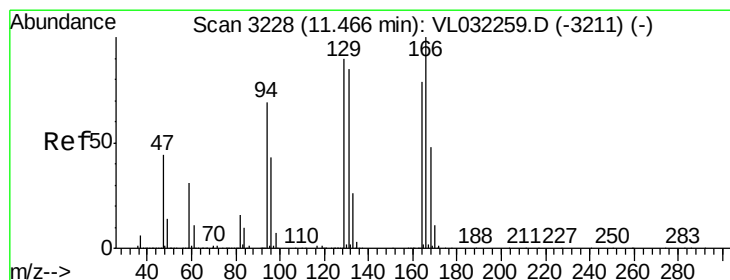
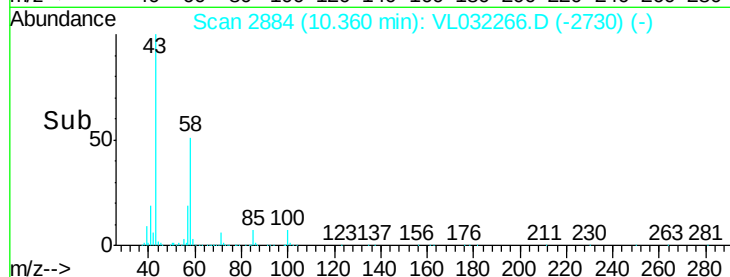
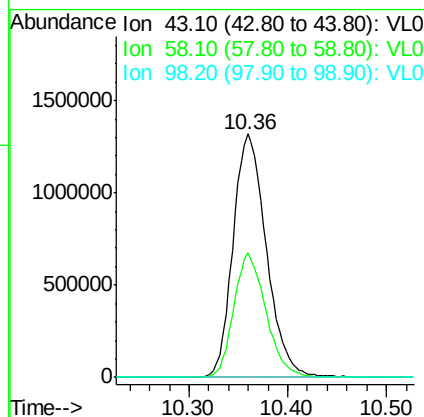
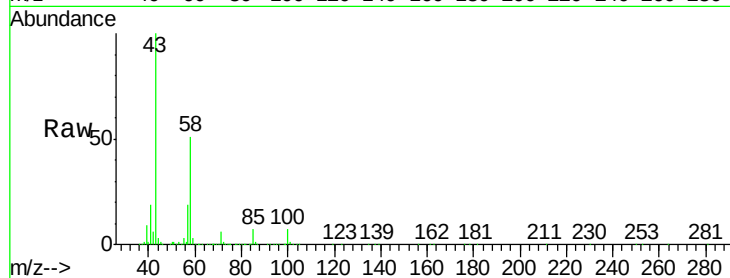
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 43 Resp: 3092163

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 49.6  | 39.4  | 59.2  |
| 98  | 0.3   | 0.2   | 0.2#  |



#52

Tetrachloroethene

Concen: 8.993 ppbv

RT: 11.46 min Scan# 3227

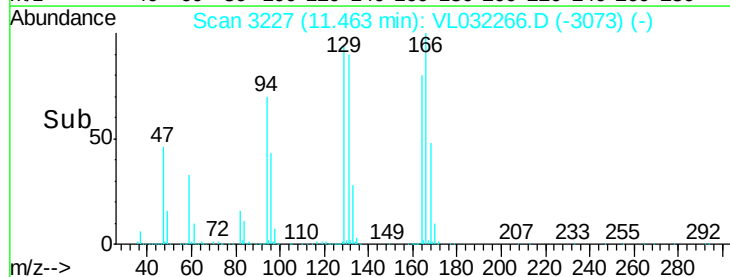
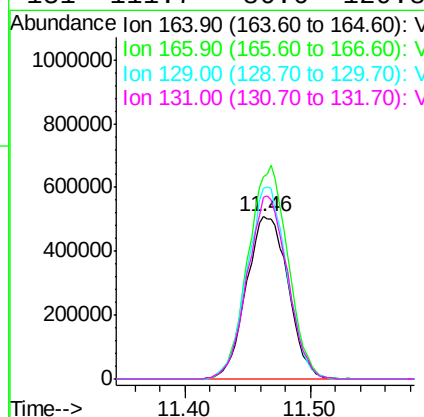
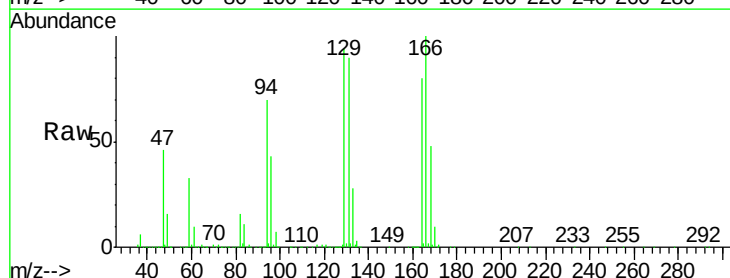
Delta R.T. -0.00 min

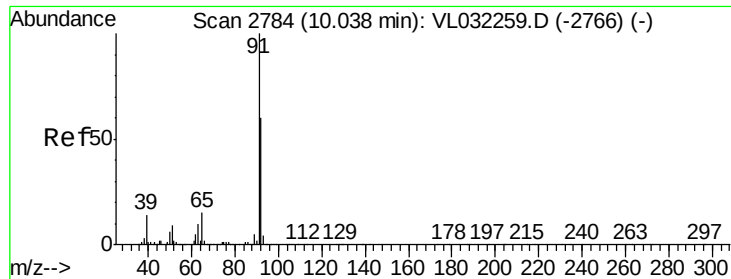
Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion: 164 Resp: 1177698

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 124.5 | 101.7 | 152.5 |
| 129 | 117.2 | 91.5  | 137.3 |
| 131 | 111.7 | 86.6  | 129.8 |





#53

Toluene

Concen: 10.064 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

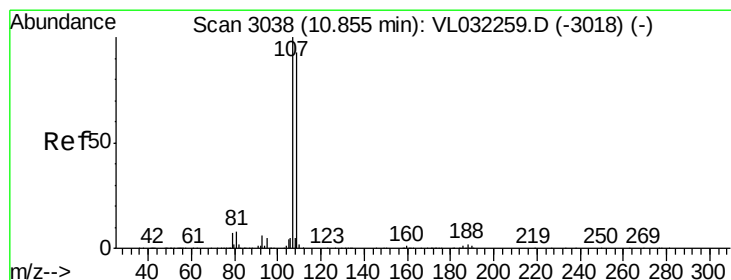
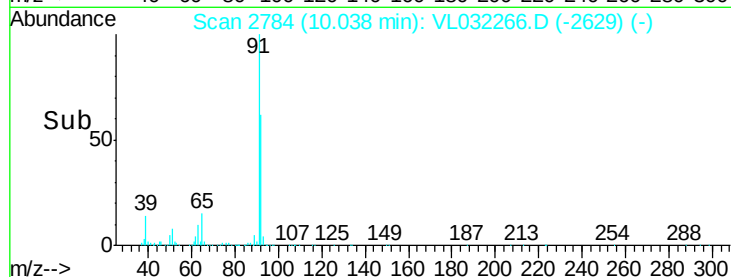
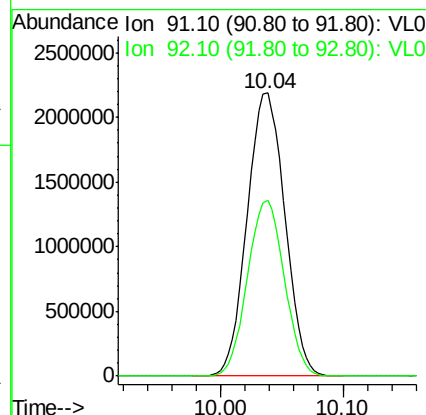
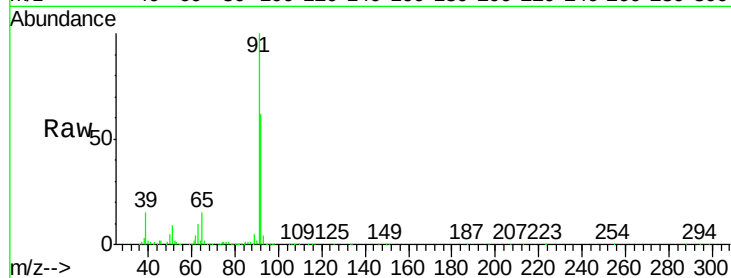
ClientSampleId :

Tot Ion: 91 Resp: 4678409

Ion Ratio Lower Upper

91 100

92 60.6 48.6 72.8



#54

1,2-Dibromoethane

Concen: 8.681 ppbv

RT: 10.85 min Scan# 3037

Delta R.T. -0.00 min

Lab File: VL032266.D

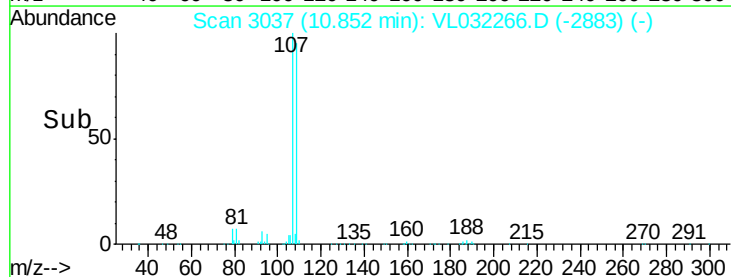
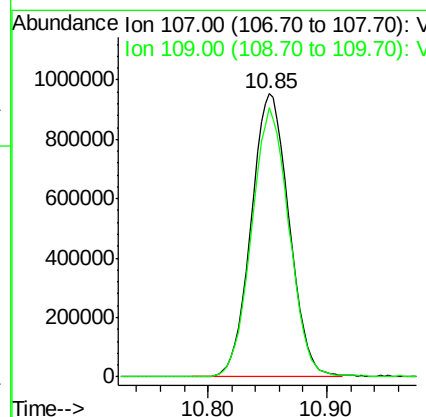
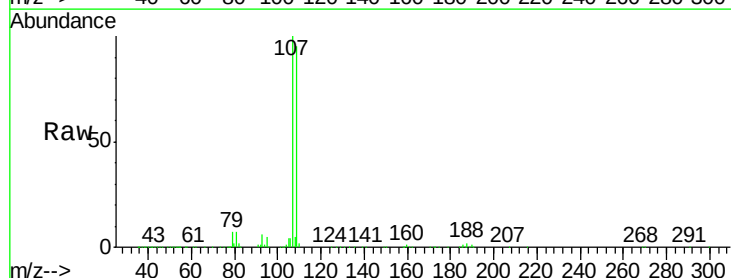
Acq: 18 Jul 2018 17:26

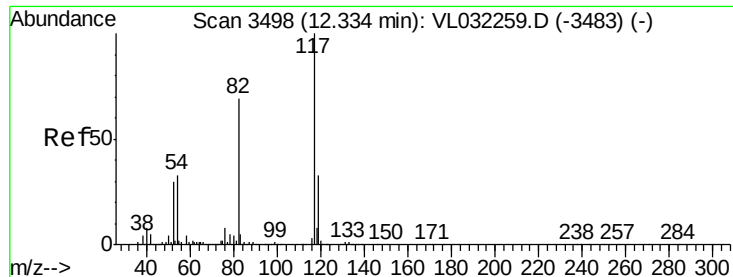
Tgt Ion: 107 Resp: 2100934

Ion Ratio Lower Upper

107 100

109 95.1 74.8 112.2

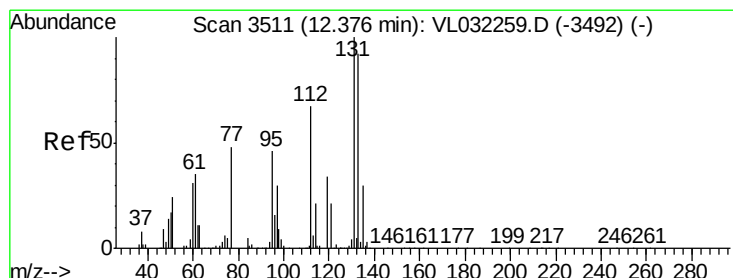
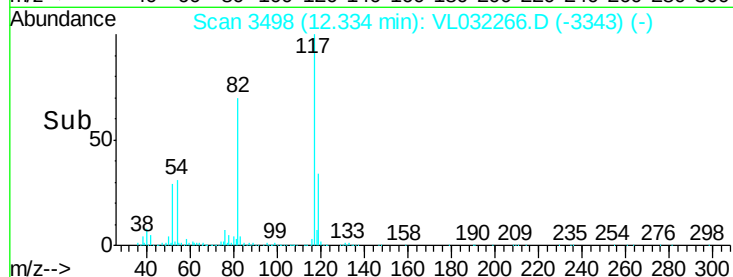
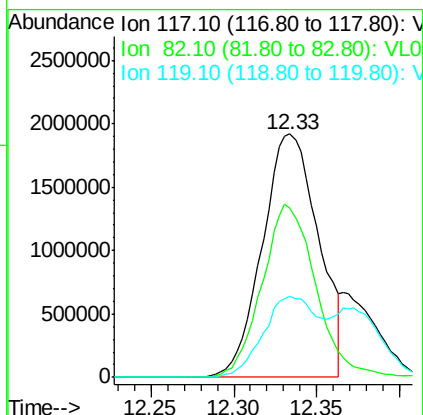
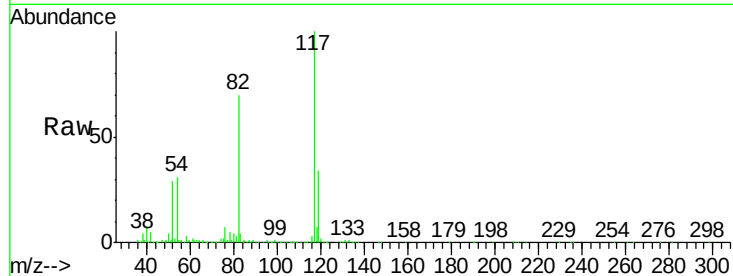




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.33 min Scan# 3498  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

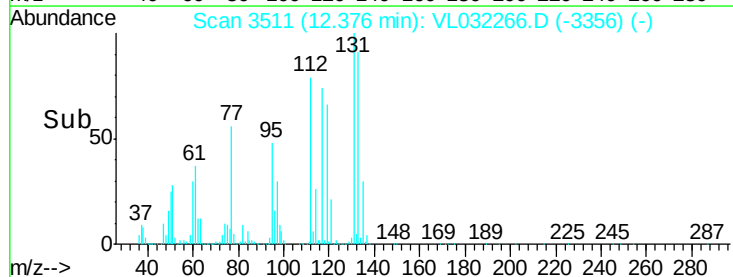
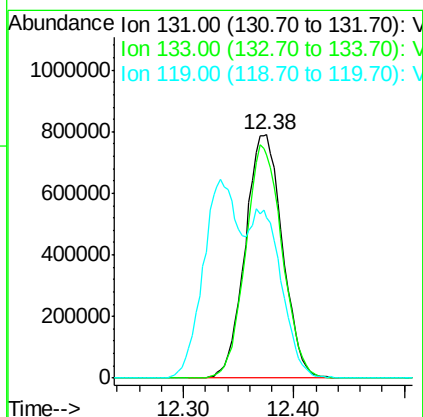
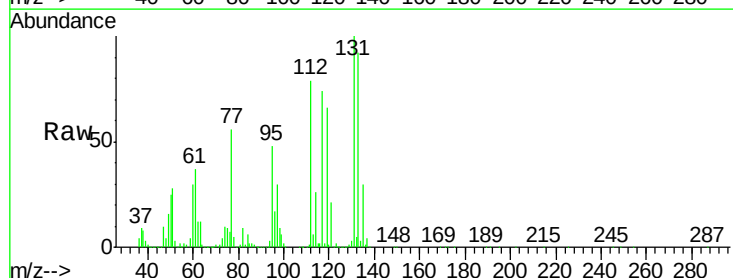
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion:117 Resp: 4528080  
Ion Ratio Lower Upper  
117 100  
82 68.7 53.9 80.9  
119 57.3 25.5 38.3#

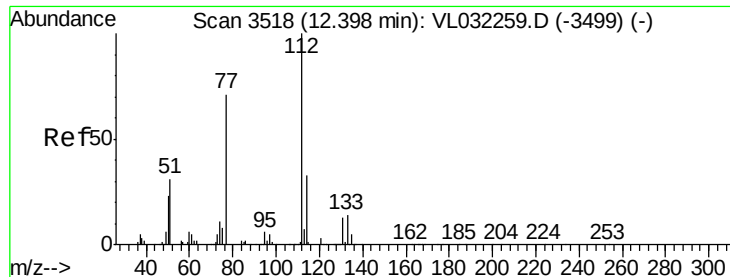


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.127 ppbv  
RT: 12.38 min Scan# 3511  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion:131 Resp: 1840630  
Ion Ratio Lower Upper  
131 100  
133 94.5 75.4 113.0  
119 141.0 49.4 74.2#







#57

Chlorobenzene

Concen: 8.998 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampleId :

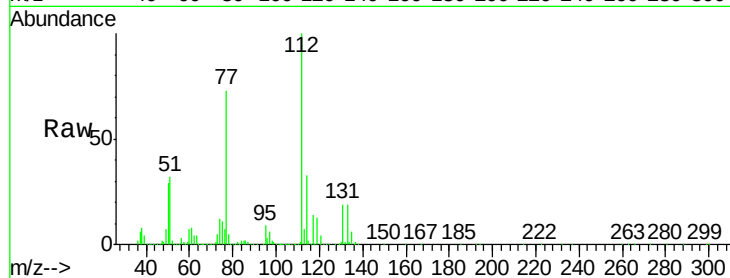
Tot Ion:112 Resp: 3342282

Ion Ratio Lower Upper

112 100

77 72.5 58.2 87.4

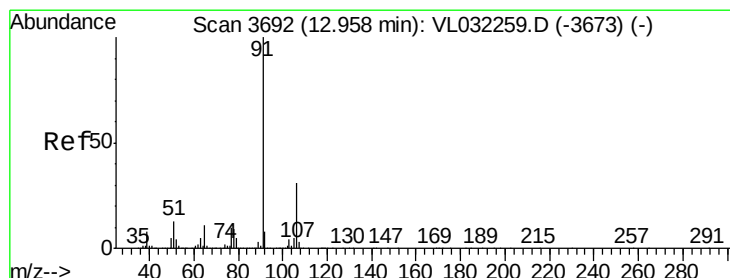
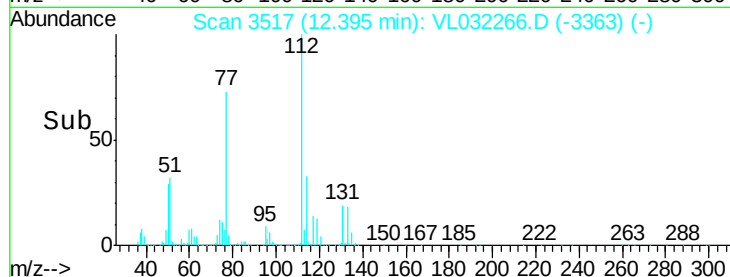
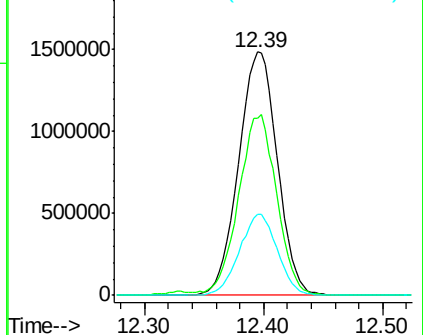
114 33.1 29.5 36.1



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: 9.915 ppbv

RT: 12.96 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL032266.D

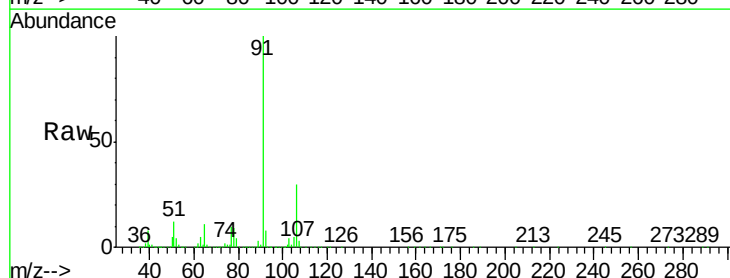
Acq: 18 Jul 2018 17:26

Tgt Ion: 91 Resp: 6326503

Ion Ratio Lower Upper

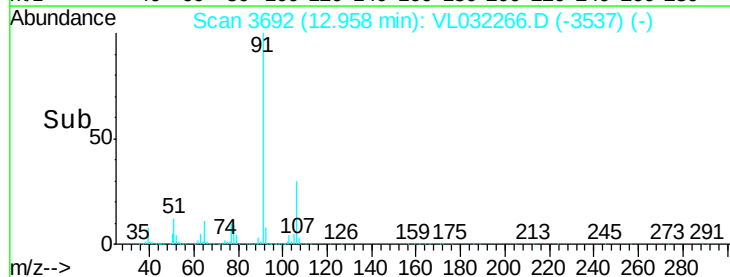
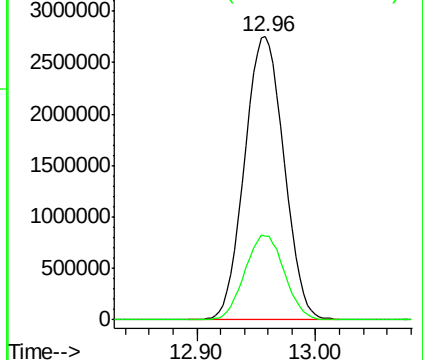
91 100

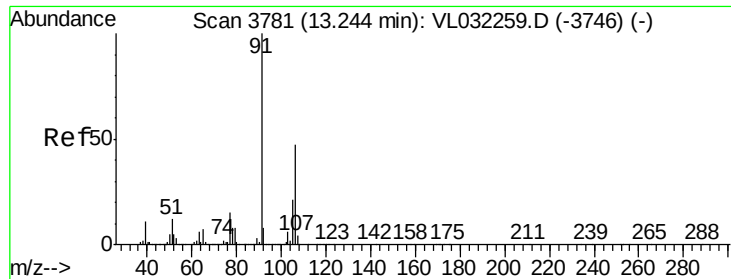
106 29.5 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

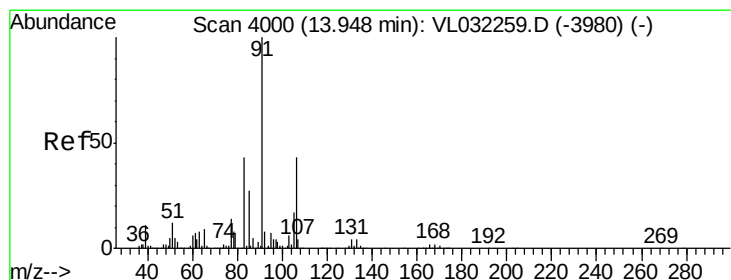
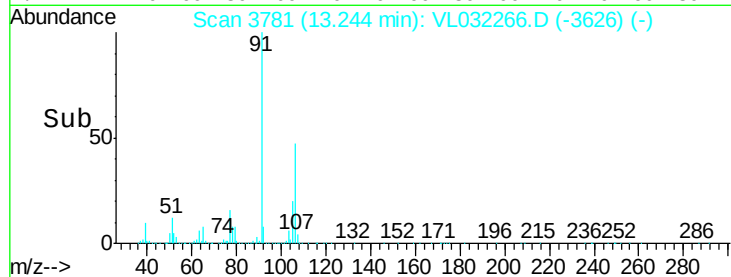
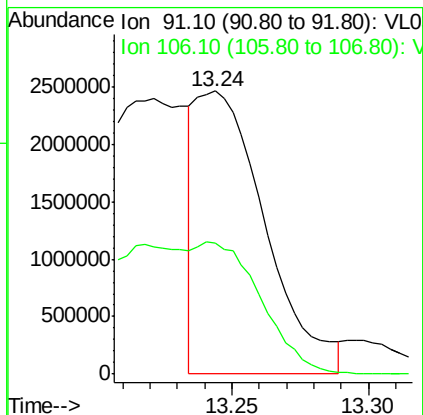
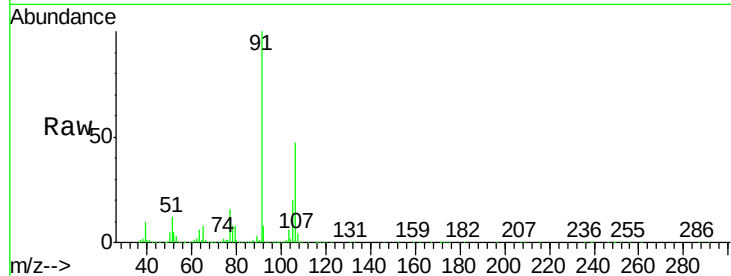




#59  
m/p-Xylene  
Concen: 7.910 ppbv  
RT: 13.24 min Scan# 3781  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

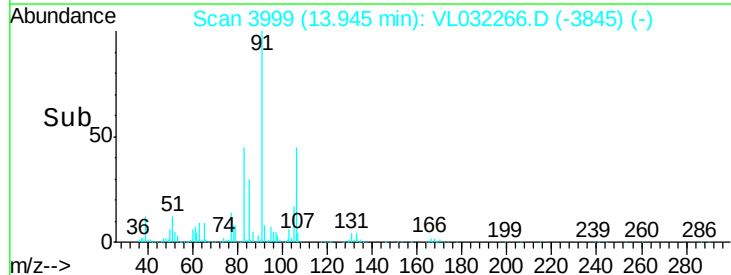
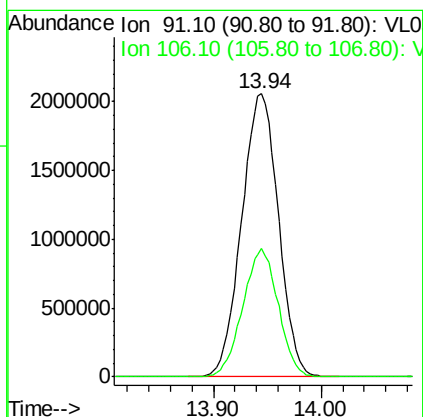
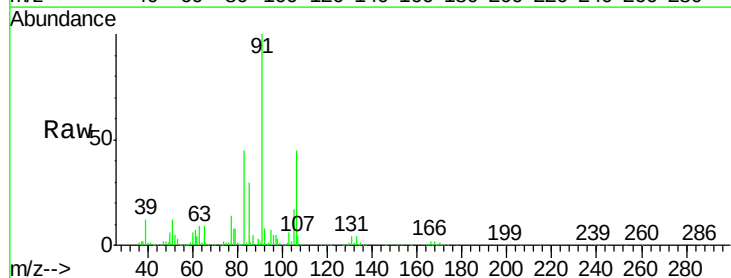
Instrument :  
MSVOA\_L  
ClientSampled :

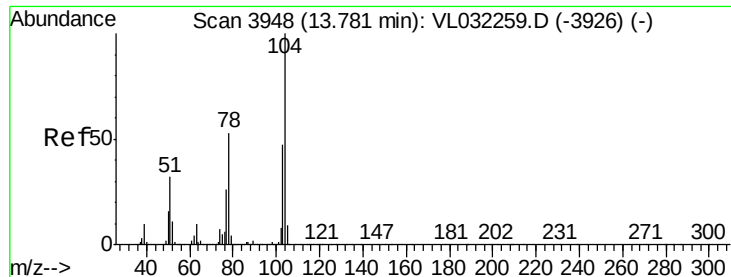
Tot Ion: 91 Resp: 4306011  
Ion Ratio Lower Upper  
91 100  
106 106.4 36.2 54.2#



#60  
o-Xylene  
Concen: 8.980 ppbv  
RT: 13.94 min Scan# 3999  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion: 91 Resp: 4868326  
Ion Ratio Lower Upper  
91 100  
106 43.8 21.7 65.1





#61

Stvrene

Concen: 9.920 ppbv

RT: 13.78 min Scan# 3947

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampleId :

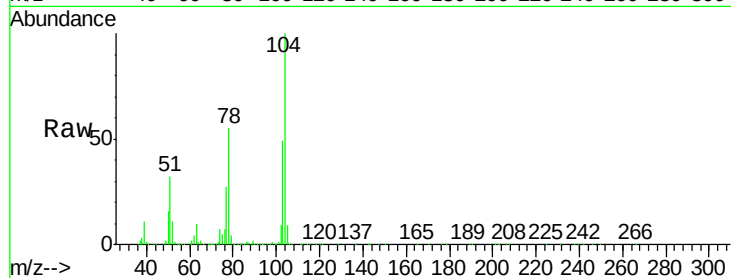
Tot Ion:104 Resp: 3993502

Ion Ratio Lower Upper

104 100

78 54.0 43.2 64.8

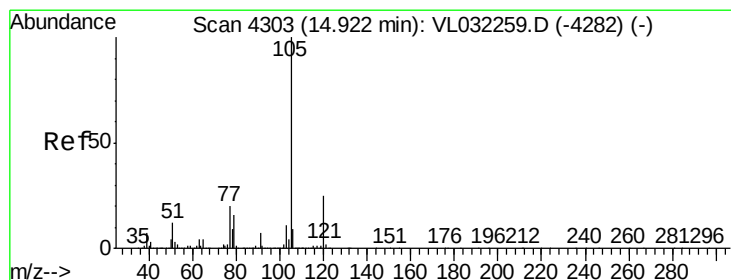
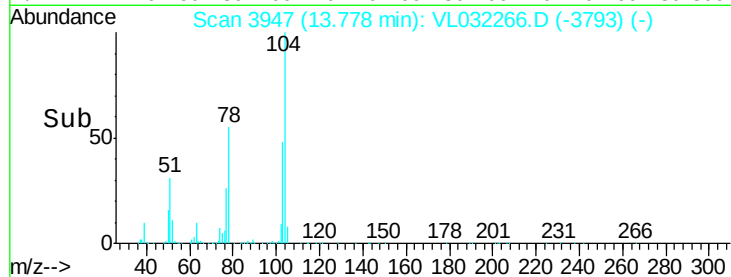
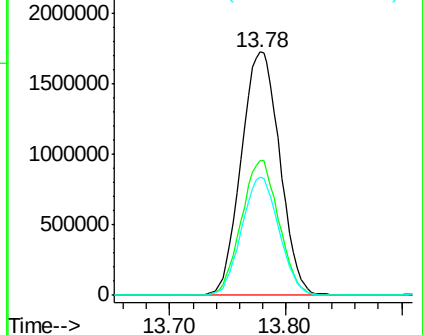
103 46.9 37.8 56.6



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: 8.955 ppbv

RT: 14.92 min Scan# 4302

Delta R.T. -0.00 min

Lab File: VL032266.D

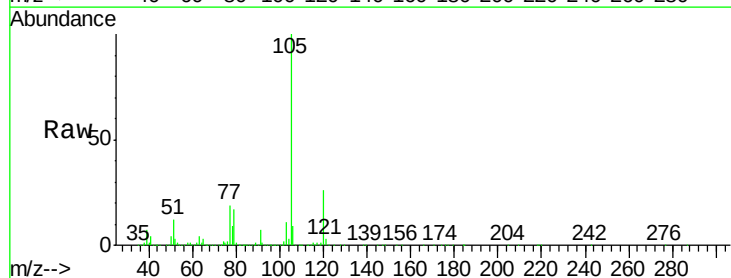
Acq: 18 Jul 2018 17:26

Tgt Ion:105 Resp: 6959673

Ion Ratio Lower Upper

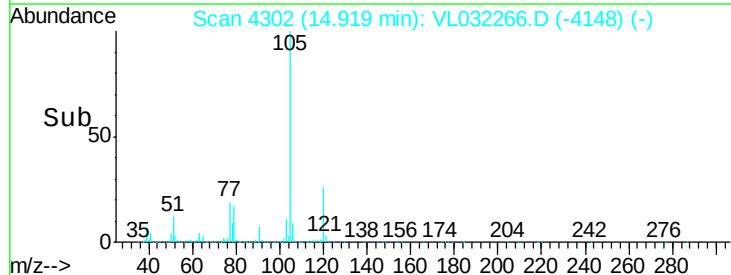
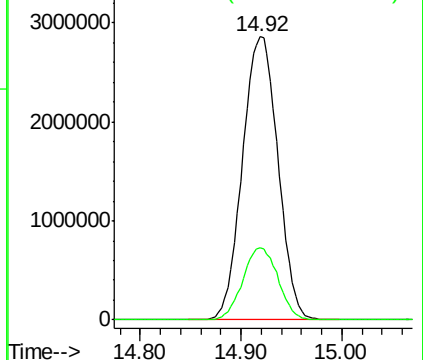
105 100

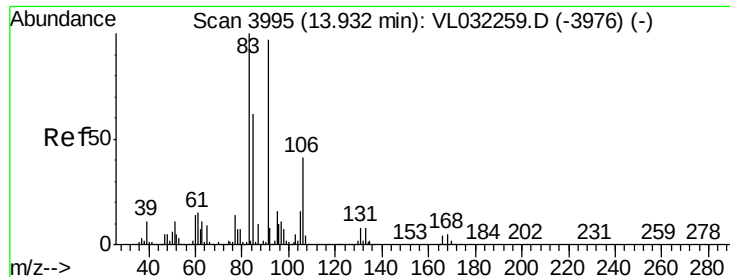
120 25.4 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

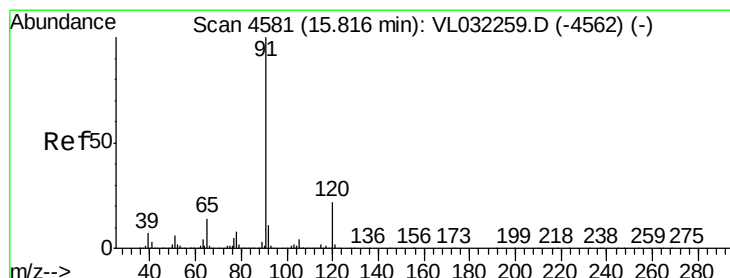
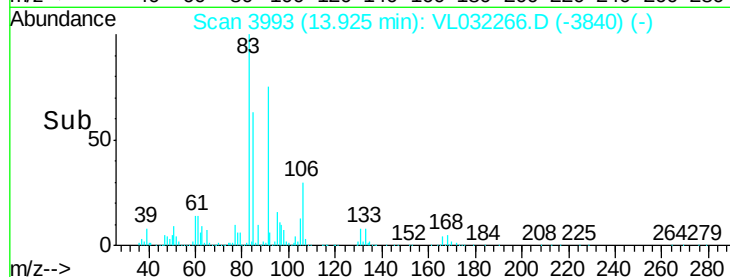
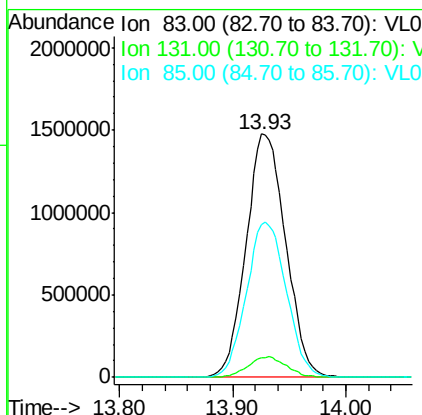
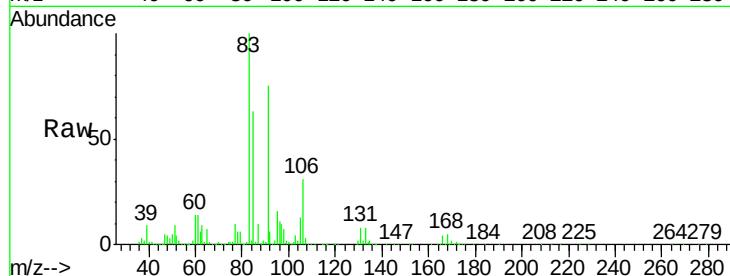




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.783 ppbv  
 RT: 13.93 min Scan# 3993  
 Delta R.T. -0.01 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

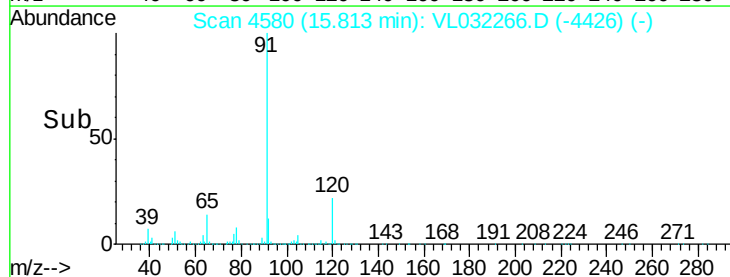
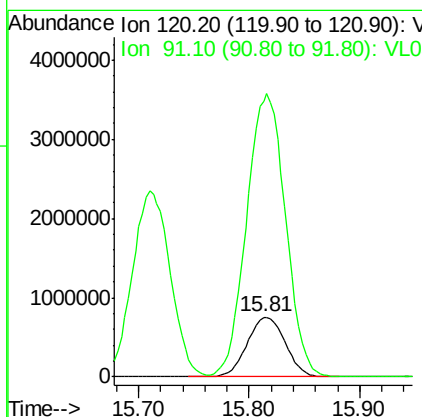
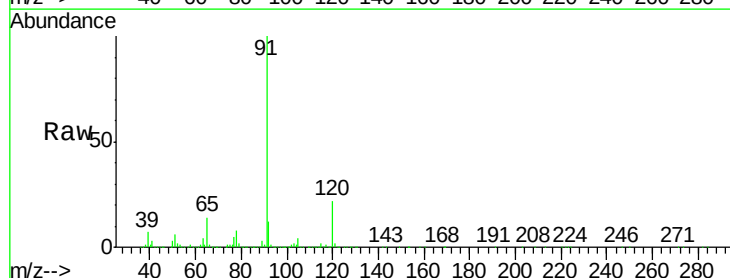
Instrument :  
 MSVOA\_L  
 ClientSampleId :

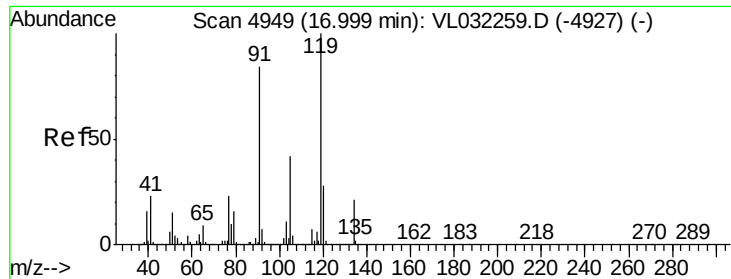
Tot Ion: 83 Resp: 3597473  
 Ion Ratio Lower Upper  
 83 100  
 131 8.2 4.2 12.6  
 85 64.4 32.2 96.6



#64  
 n-propylbenzene  
 Concen: 9.053 ppbv  
 RT: 15.81 min Scan# 4580  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion:120 Resp: 1806582  
 Ion Ratio Lower Upper  
 120 100  
 91 484.6 384.4 576.6

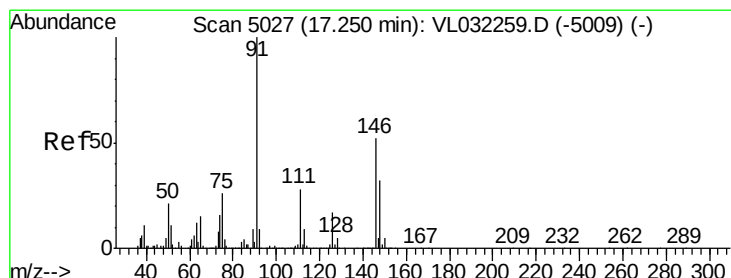
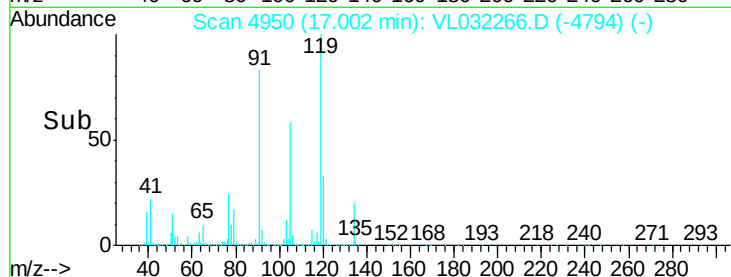
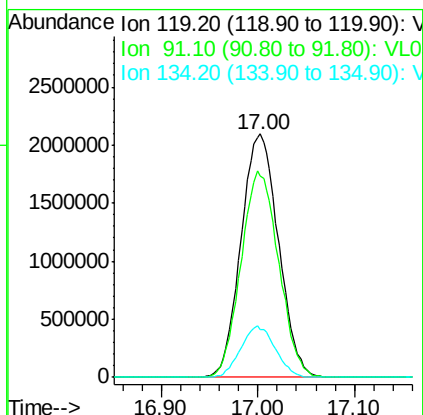
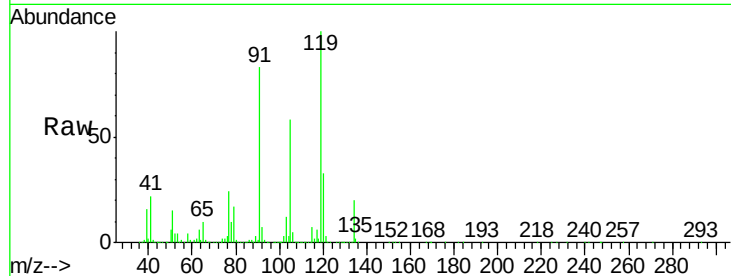




#65  
tert-Butylbenzene  
Concen: 8.504 ppbv  
RT: 17.00 min Scan# 4950  
Delta R.T. 0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

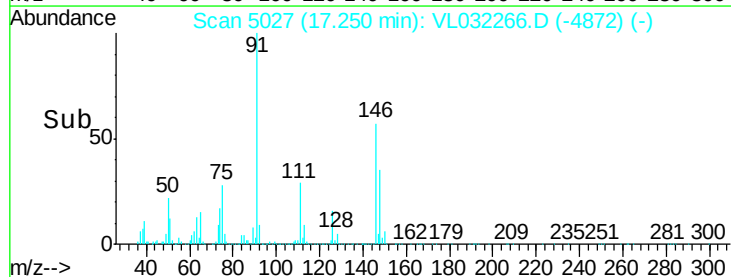
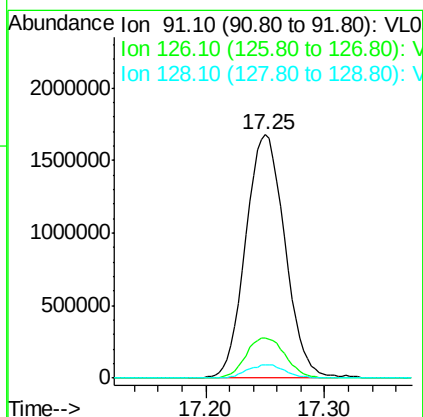
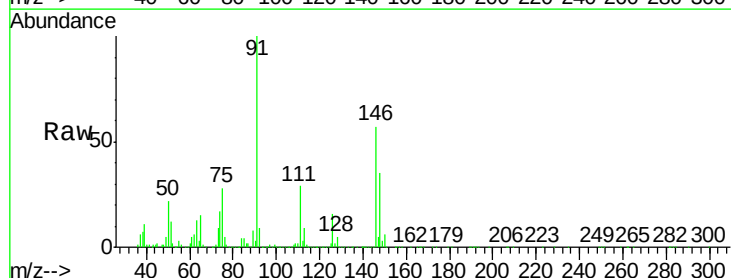
Instrument :  
MSVOA\_L  
ClientSampled :

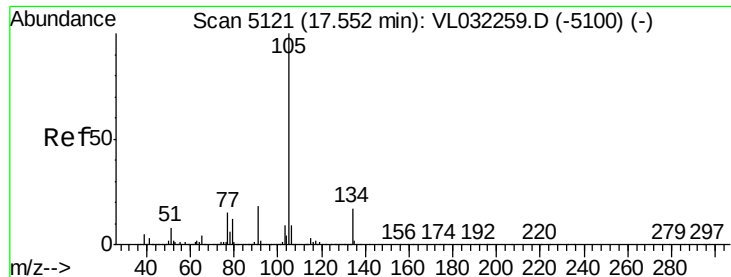
Tot Ion:119 Resp: 5631025  
Ion Ratio Lower Upper  
119 100  
91 85.1 68.2 102.4  
134 19.6 15.6 23.4



#66  
Benzyl Chloride  
Concen: 10.289 ppbv  
RT: 17.25 min Scan# 5027  
Delta R.T. -0.00 min  
Lab File: VL032266.D  
Acq: 18 Jul 2018 17:26

Tgt Ion: 91 Resp: 3836064  
Ion Ratio Lower Upper  
91 100  
126 16.7 13.4 20.2  
128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.557 ppbv

RT: 17.55 min Scan# 5121

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

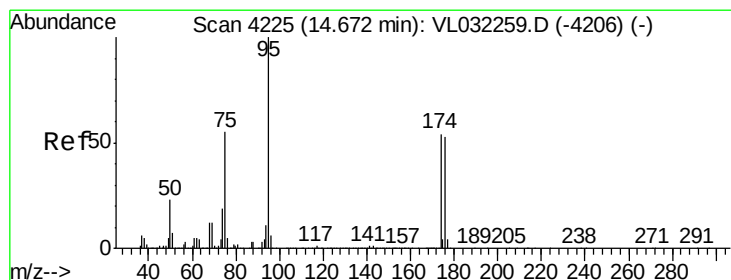
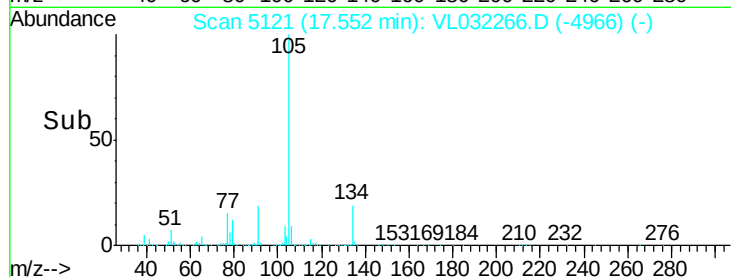
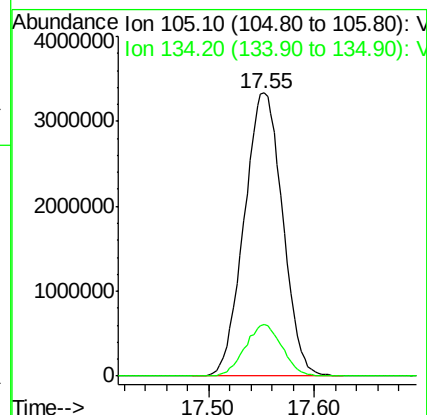
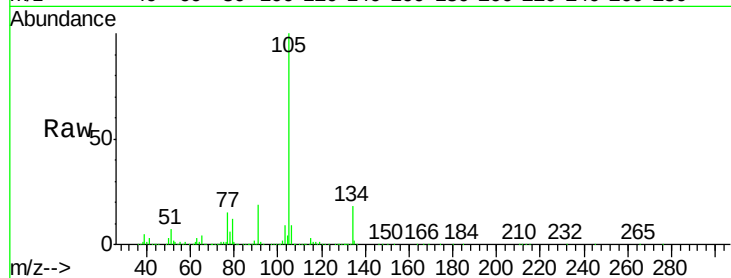
ClientSampleId :

Tot Ion:105 Resp: 8453235

Ion Ratio Lower Upper

105 100

134 17.7 14.0 21.0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.578 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

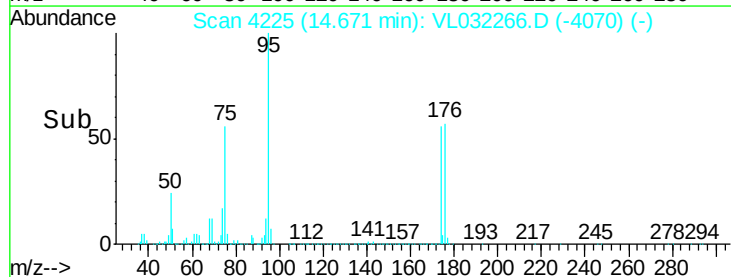
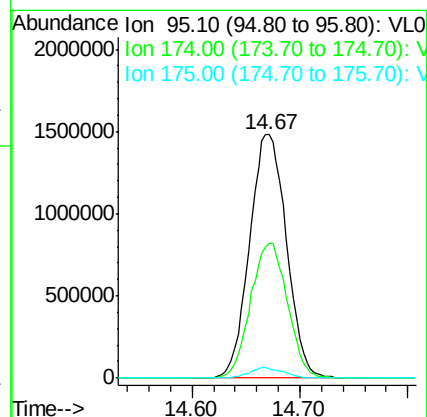
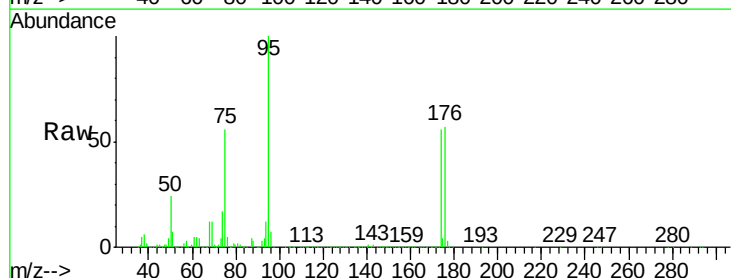
Tgt Ion: 95 Resp: 3516216

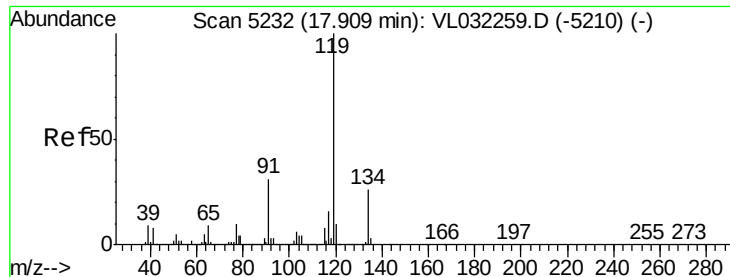
Ion Ratio Lower Upper

95 100

174 55.5 44.3 66.5

175 4.1 3.3 4.9

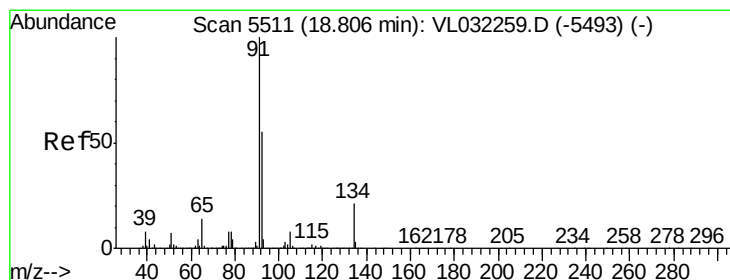
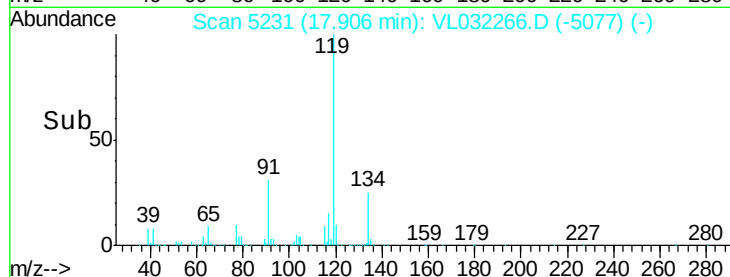
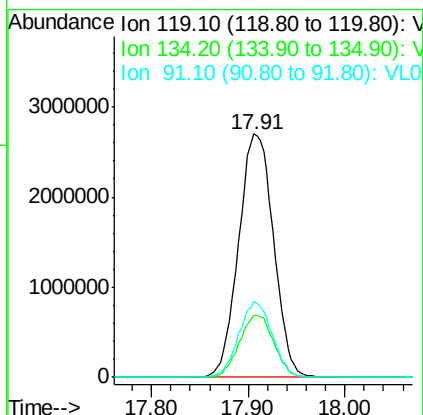
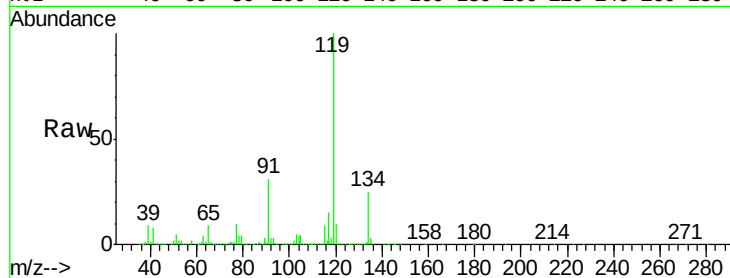




#69  
 p-Isopropyltoluene  
 Concen: 8.860 ppbv  
 RT: 17.91 min Scan# 5231  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

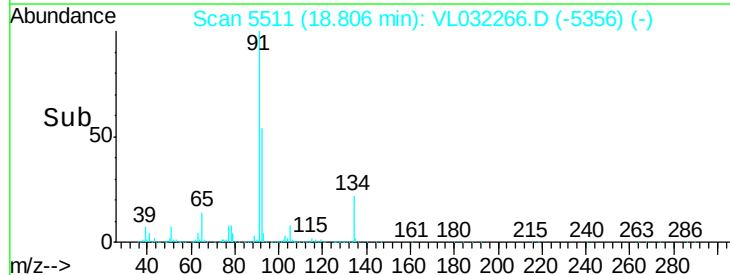
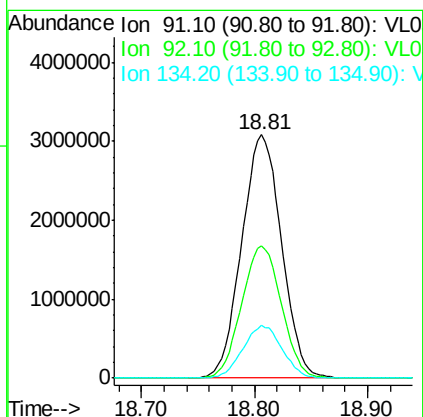
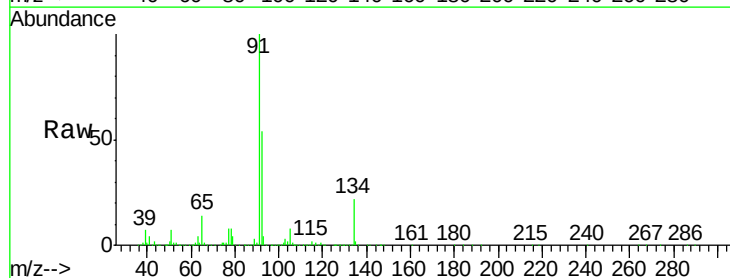
Instrument :  
 MSVOA\_L  
 ClientSampleId :

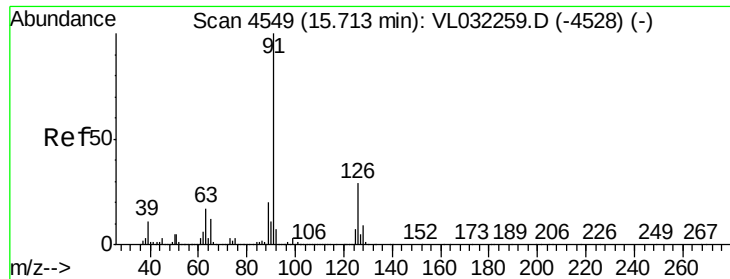
Tot Ion:119 Resp: 6761555  
 Ion Ratio Lower Upper  
 119 100  
 134 25.1 20.3 30.5  
 91 29.9 24.1 36.1



#70  
 n-Butylbenzene  
 Concen: 8.847 ppbv  
 RT: 18.81 min Scan# 5511  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion: 91 Resp: 7531898  
 Ion Ratio Lower Upper  
 91 100  
 92 54.4 43.8 65.6  
 134 21.4 17.1 25.7





#71

2-Chlorotoluene

Concen: 8.963 ppbv

RT: 15.71 min Scan# 4548

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

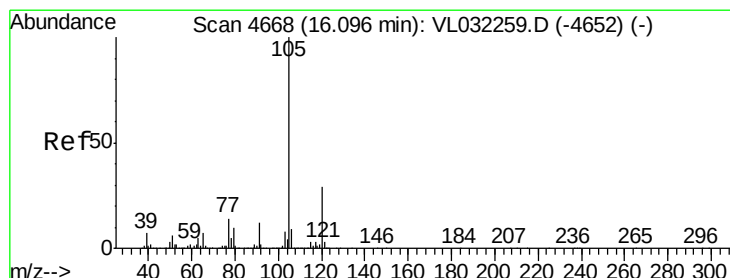
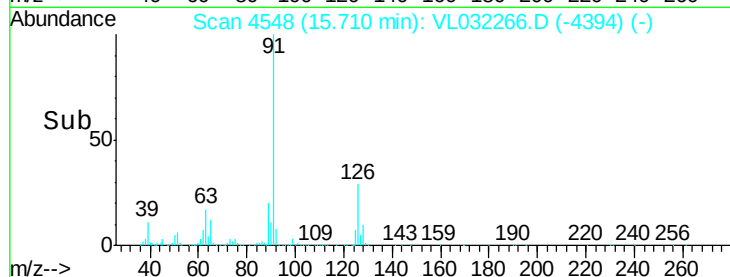
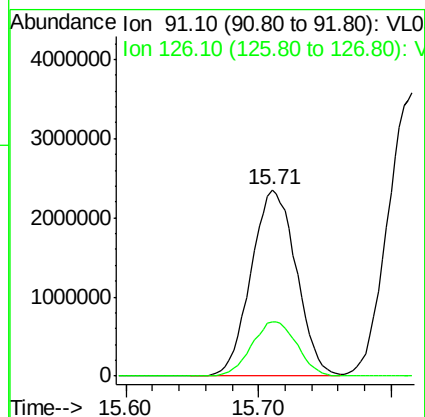
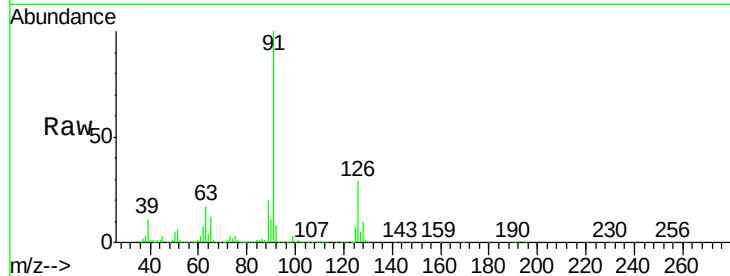
ClientSampled :

Tot Ion: 91 Resp: 5583087

Ion Ratio Lower Upper

91 100

126 29.2 11.6 46.2



#72

4-Ethyltoluene

Concen: 9.227 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion: 105 Resp: 5778437

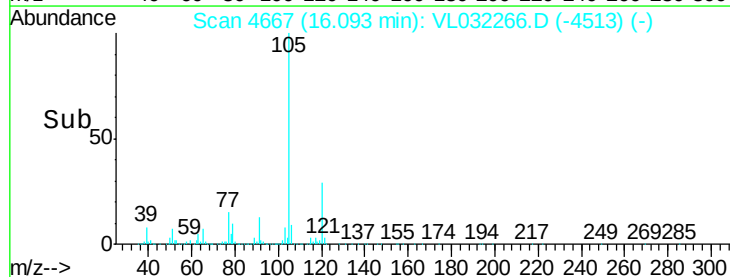
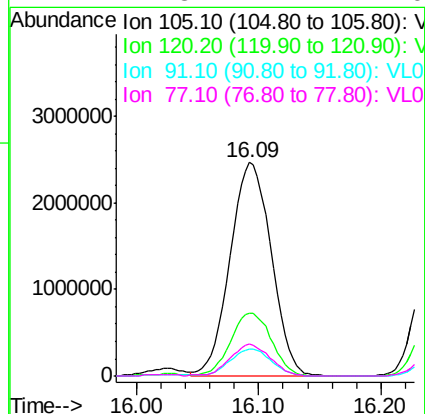
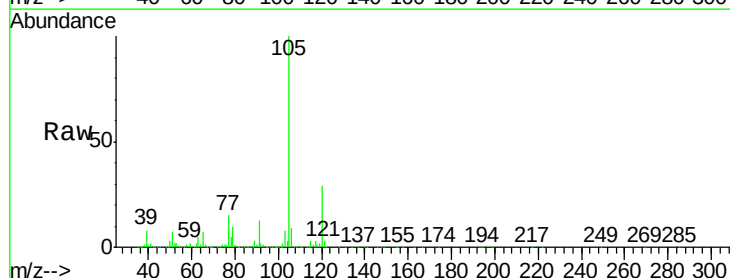
Ion Ratio Lower Upper

105 100

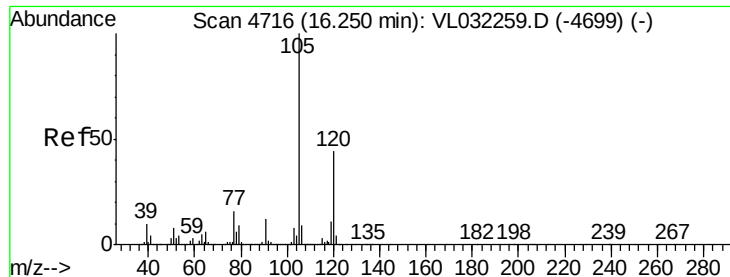
120 29.1 23.0 34.6

91 12.7 10.1 15.1

77 14.3 11.4 17.0



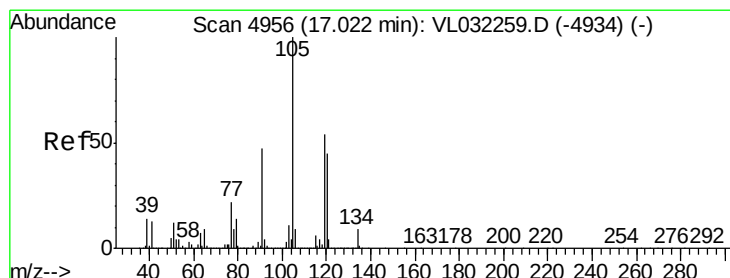
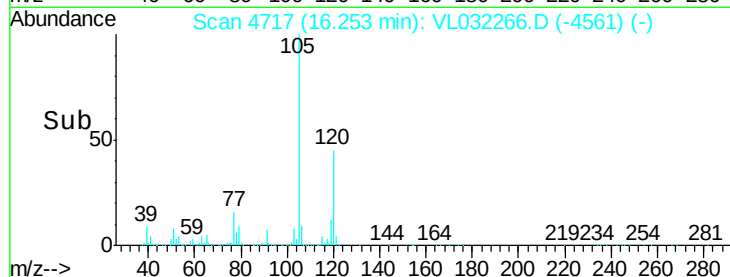
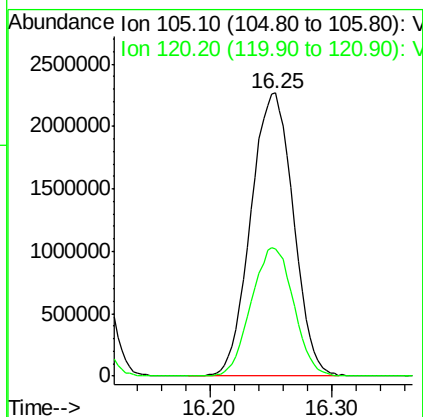
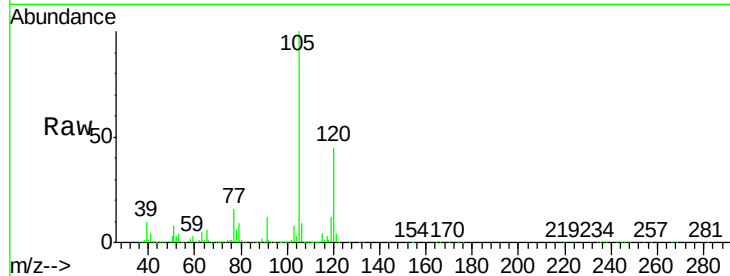




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.918 ppbv  
 RT: 16.25 min Scan# 4717  
 Delta R.T. 0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

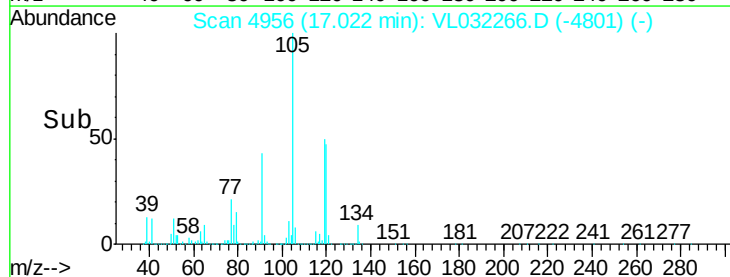
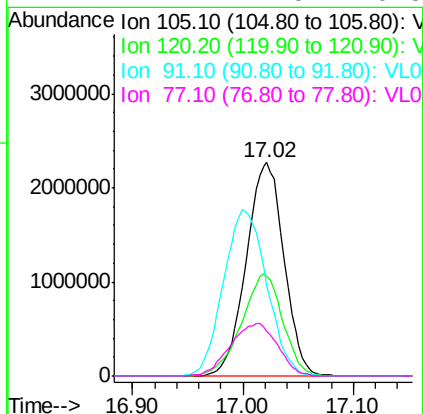
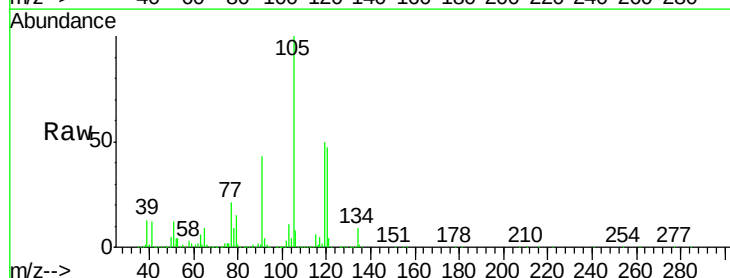
Instrument :  
 MSVOA\_L  
 ClientSampled :

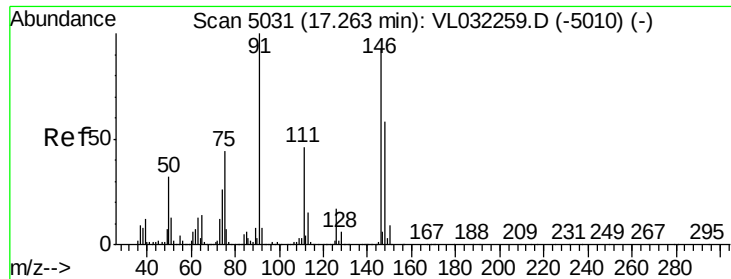
Tot Ion:105 Resp: 5460618  
 Ion Ratio Lower Upper  
 105 100  
 120 44.8 35.5 53.3



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.365 ppbv  
 RT: 17.02 min Scan# 4956  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion:105 Resp: 5362235  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 35.8 53.6  
 91 42.6 38.2 57.4  
 77 21.1 17.5 26.3

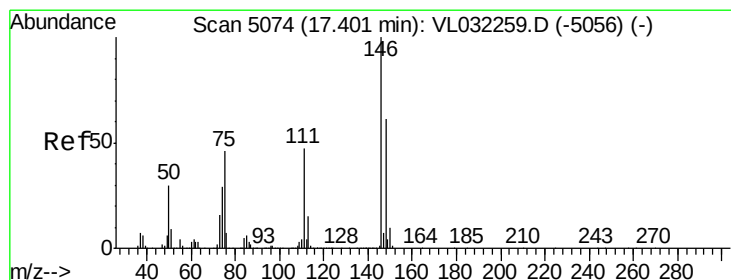
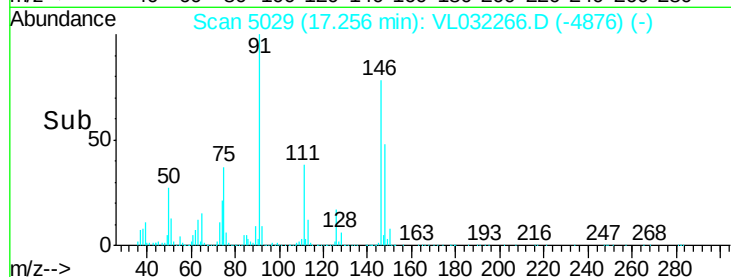
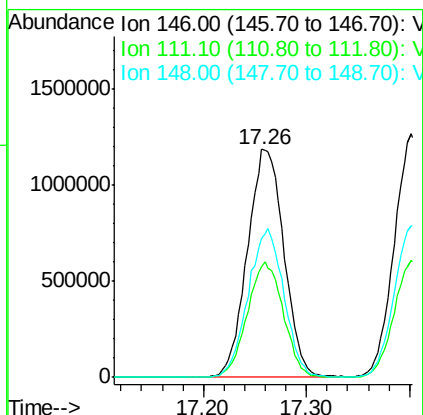
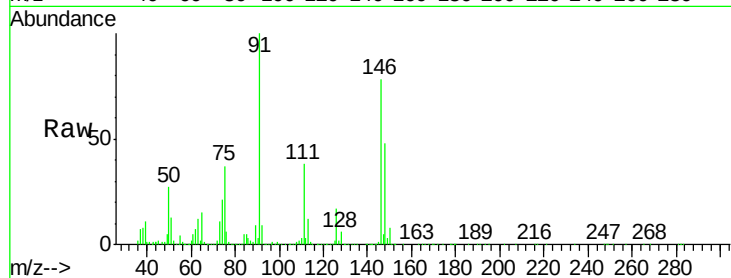




#75  
 1,3-Dichlorobenzene  
 Concen: 8.193 ppbv  
 RT: 17.26 min Scan# 5029  
 Delta R.T. -0.01 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

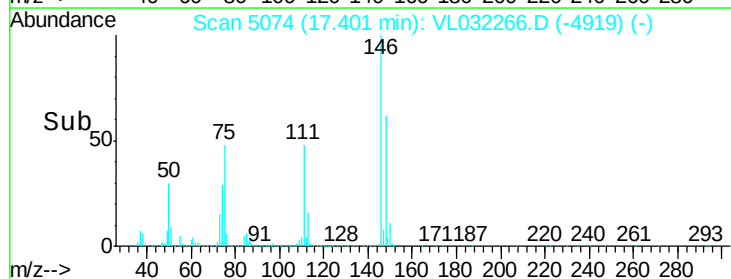
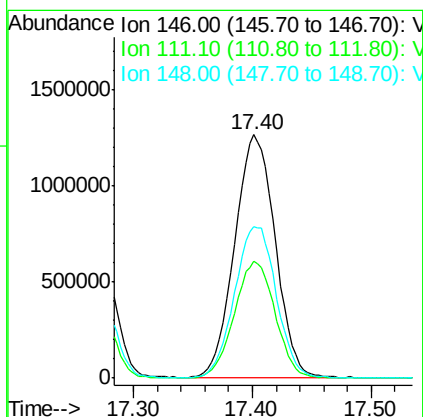
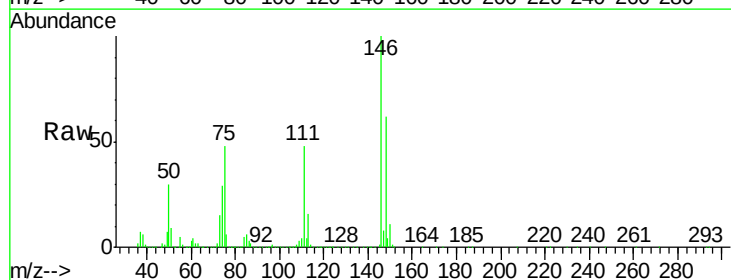
Instrument :  
 MSVOA\_L  
 ClientSampleId :

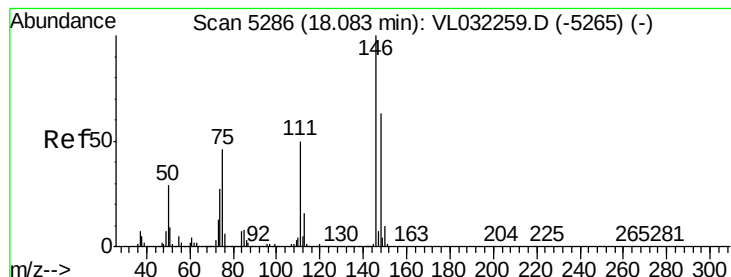
Tot Ion:146 Resp: 2918103  
 Ion Ratio Lower Upper  
 146 100  
 111 49.8 25.1 75.4  
 148 63.6 31.8 95.3



#76  
 1,4-Dichlorobenzene  
 Concen: 8.427 ppbv  
 RT: 17.40 min Scan# 5074  
 Delta R.T. -0.00 min  
 Lab File: VL032266.D  
 Acq: 18 Jul 2018 17:26

Tgt Ion:146 Resp: 2977152  
 Ion Ratio Lower Upper  
 146 100  
 111 48.5 24.1 72.2  
 148 64.5 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 8.473 ppbv

RT: 18.08 min Scan# 5286

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampleId :

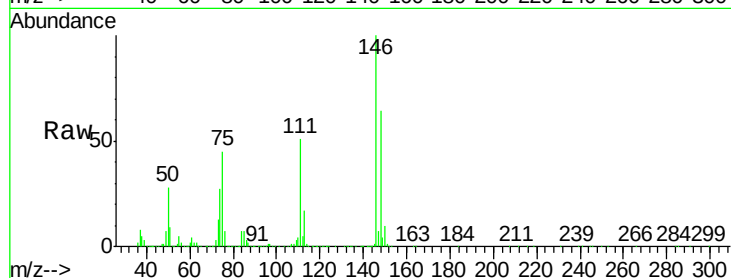
Tot Ion:146 Resp: 2917555

Ion Ratio Lower Upper

146 100

111 50.8 25.6 76.8

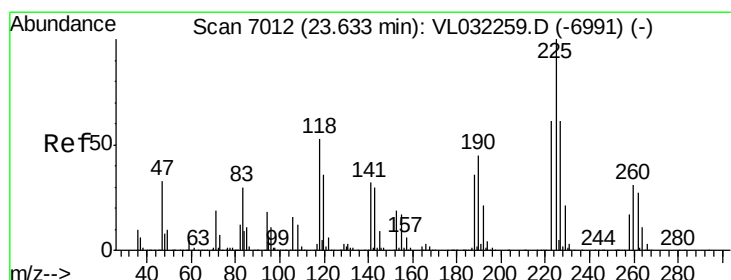
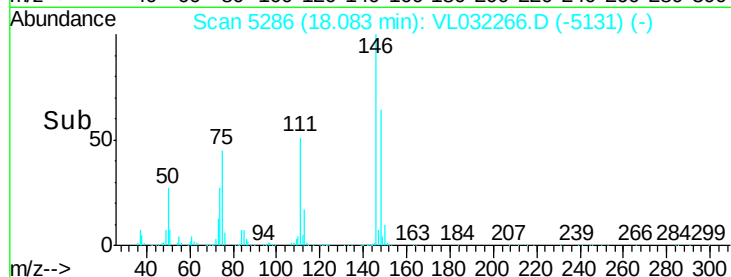
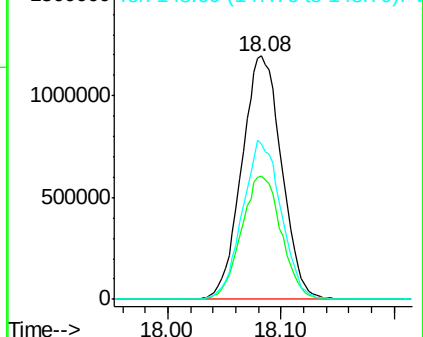
148 63.6 31.9 95.5



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



#78

Hexachloro-1,3-Butadiene

Concen: 16.017 ppbv

RT: 23.63 min Scan# 7012

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

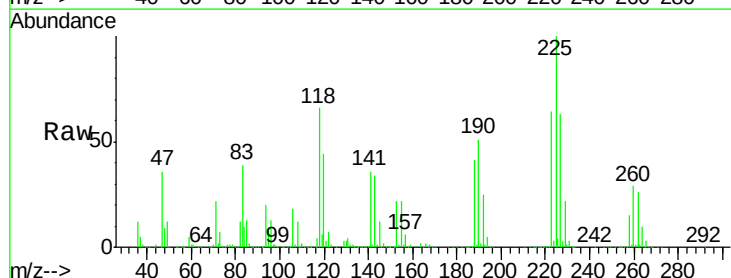
Tgt Ion:225 Resp: 1787817

Ion Ratio Lower Upper

225 100

223 63.4 50.6 75.8

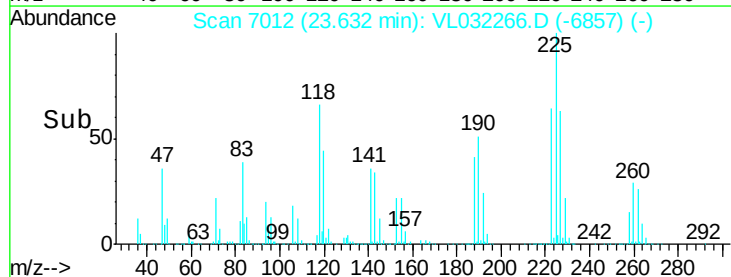
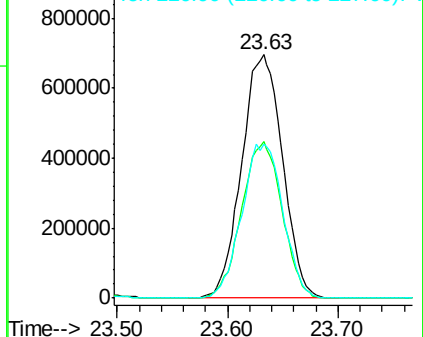
227 64.0 51.5 77.3

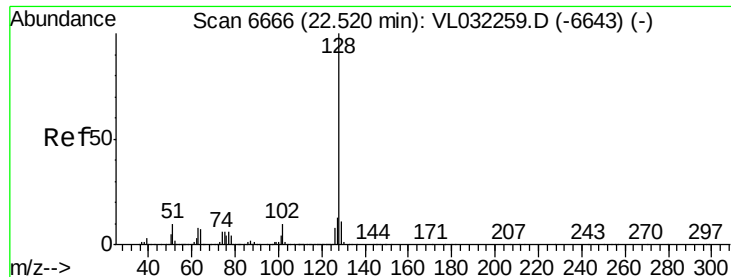


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.491 ppbv

RT: 22.52 min Scan# 6667

Delta R.T. 0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

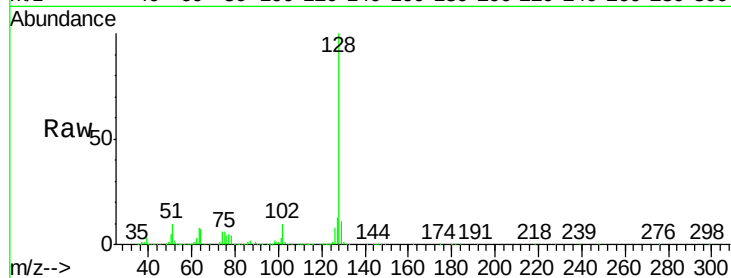
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:128 Resp: 5109026

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.5  | 10.5  | 15.7  |
| 129 | 10.6  | 8.6   | 12.8  |

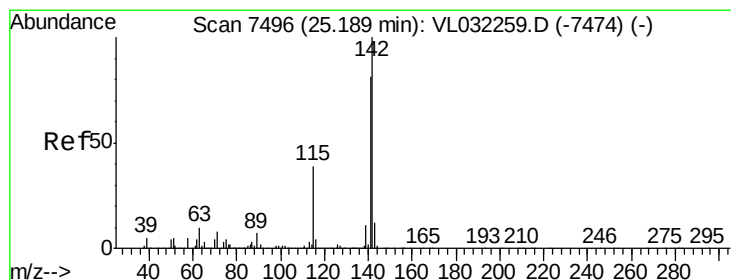
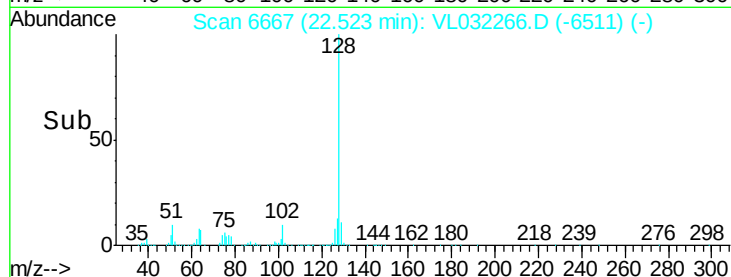
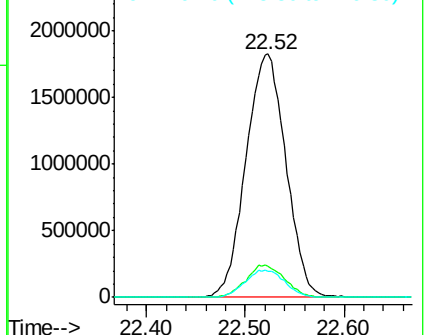


Abundance

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: 11.033 ppbv

RT: 25.19 min Scan# 7495

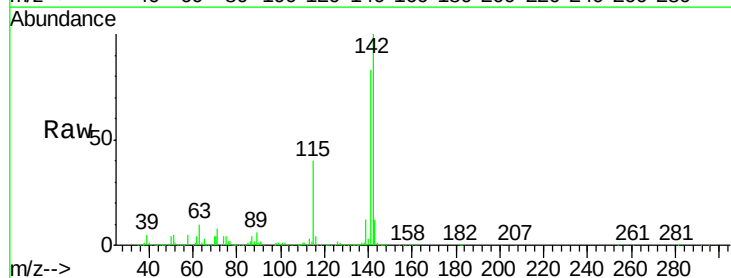
Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion:142 Resp: 2523090

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 83.7  | 67.1  | 100.7 |
| 115 | 40.6  | 32.5  | 48.7  |

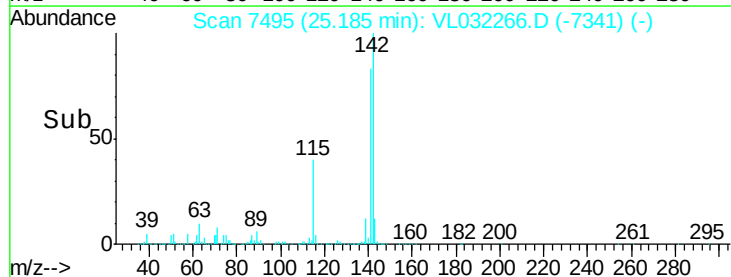
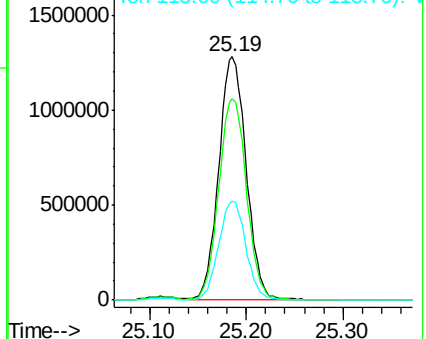


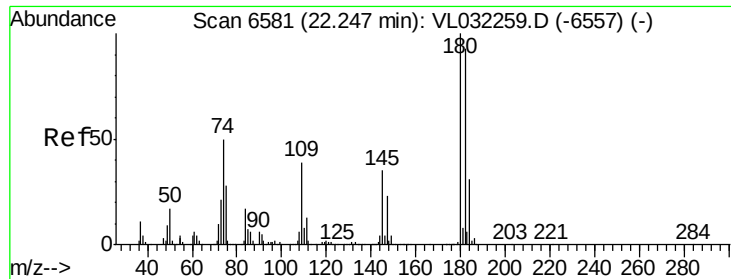
Abundance

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: 9.210 ppbv

RT: 22.25 min Scan# 6581

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA\_L

ClientSampleId :

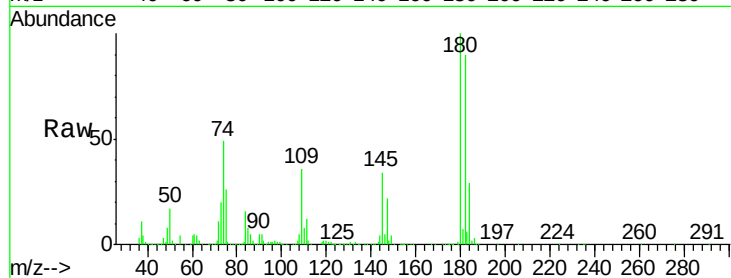
Tot Ion:180 Resp: 2417447

Ion Ratio Lower Upper

180 100

182 95.5 76.6 114.8

184 30.6 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

