

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\  
 Data File : VL026668.D  
 Acq On : 12 Jan 2016 9:09  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jan 13 02:59:43 2016  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 11 17:14:02 2016  
 QLast Update : Mon Jan 11 17:14:02 2016  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 6.66  | 49   | 707441   | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 8.33  | 114  | 2237376  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 13.75 | 117  | 3674195  | 10.00 | ppbv  | 0.02     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 16.30  | 95    | 2436304  | 8.32     | ppbv | 0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.20% |

| Target Compounds               |      |     |         |       |        | Ovalue |
|--------------------------------|------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.65 | 85  | 2142289 | 11.39 | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 3.57 | 51  | 941801  | 10.00 | ppbv   | 97     |
| 4) Chloromethane               | 3.75 | 50  | 423897  | 9.20  | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.89 | 62  | 512046  | 9.18  | ppbv   | 98     |
| 6) Bromomethane                | 4.14 | 94  | 413133  | 10.40 | ppbv   | 97     |
| 7) Chloroethane                | 4.25 | 64  | 231012  | 10.24 | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.81 | 85  | 1551498 | 10.50 | ppbv   | 99     |
| 9) Propene                     | 3.60 | 41  | 296585  | 8.76  | ppbv   | 98     |
| 10) Heptane                    | 9.35 | 43  | 1233395 | 9.78  | ppbv   | 96     |
| 11) Trichlorofluoromethane     | 4.70 | 101 | 2247908 | 11.53 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 5.31 | 101 | 1317642 | 11.00 | ppbv   | 99     |
| 13) Ethanol                    | 4.33 | 45  | 59255   | 9.21  | ppbv   | 100    |
| 14) Bromoethene                | 4.45 | 108 | 464597  | 10.77 | ppbv   | 98     |
| 15) Acetone                    | 4.60 | 43  | 1093905 | 9.40  | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.97 | 39  | 455246  | 9.80  | ppbv   | 99     |
| 17) tert-Butyl alcohol         | 5.13 | 59  | 990368  | 11.29 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 5.09 | 96  | 537422  | 10.76 | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 4.75 | 45  | 494859  | 10.31 | ppbv # | 99     |
| 20) Methylene Chloride         | 5.15 | 84  | 479667  | 10.04 | ppbv   | 96     |
| 21) Allyl Chloride             | 5.23 | 41  | 707403  | 9.91  | ppbv   | 88     |
| 22) trans-1,2-Dichloroethene   | 5.77 | 96  | 593265  | 10.40 | ppbv   | 99     |
| 23) Vinyl Acetate              | 5.98 | 43  | 1828601 | 10.23 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.92 | 63  | 1300152 | 10.09 | ppbv   | 99     |
| 25) Ethyl Acetate              | 6.67 | 43  | 1799279 | 10.02 | ppbv   | 99     |
| 26) Hexane                     | 6.66 | 57  | 928850  | 10.00 | ppbv   | 97     |
| 27) Carbon Disulfide           | 5.39 | 76  | 1535491 | 11.12 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether    | 5.95 | 73  | 2015163 | 10.91 | ppbv   | 96     |
| 29) Chloroform                 | 6.75 | 83  | 1829479 | 10.85 | ppbv   | 100    |
| 30) Cyclohexane                | 8.29 | 84  | 980588  | 10.69 | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene     | 6.52 | 61  | 1005379 | 10.74 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane      | 7.60 | 97  | 2038930 | 10.71 | ppbv   | 99     |
| 34) 2-Butanone                 | 6.20 | 43  | 1065934 | 8.94  | ppbv   | 97     |
| 35) Carbon Tetrachloride       | 8.17 | 117 | 2063915 | 10.49 | ppbv   | 99     |
| 36) Benzene                    | 8.02 | 78  | 2180887 | 9.47  | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 7.38 | 62  | 1650241 | 10.48 | ppbv   | 99     |
| 38) Trichloroethene            | 9.07 | 130 | 899516  | 8.75  | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 8.83 | 63  | 741129  | 9.31  | ppbv   | 93     |
| 40) 1,4-Dioxane                | 9.12 | 88  | 216758  | 11.85 | ppbv   | 84     |
| 41) Tetrahydrofuran            | 7.12 | 42  | 546512  | 9.25  | ppbv   | 95     |
| 42) Bromodichloromethane       | 9.03 | 83  | 2151047 | 10.58 | ppbv   | 99     |
| 43) Methyl Methacrylate        | 9.27 | 69  | 873773  | 10.39 | ppbv   | 96     |

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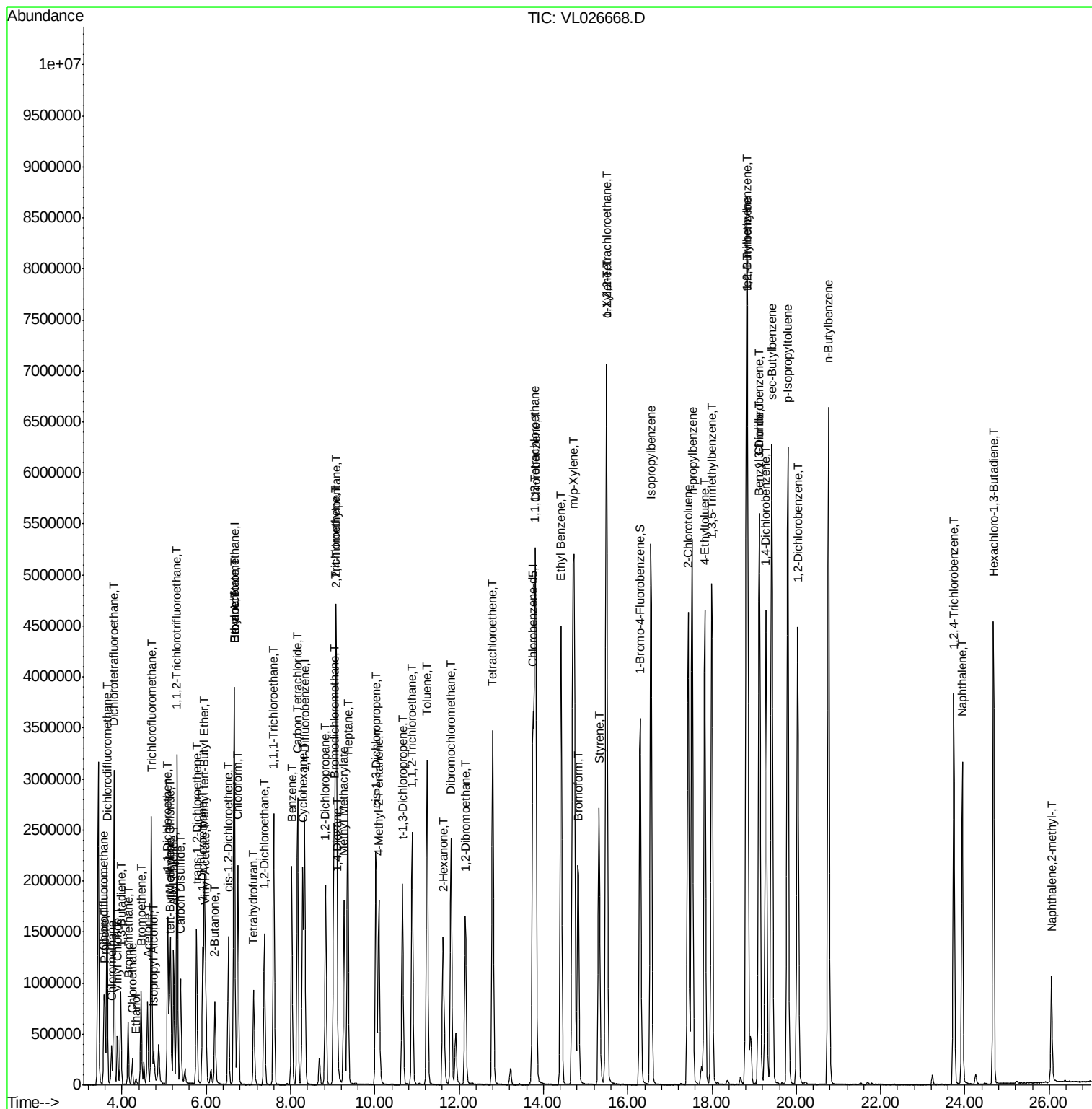
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 9.09  | 57   | 3321505  | 8.94  | ppbv   | 97       |
| 45) t-1,3-Dichloropropene     | 10.65 | 75   | 1592735  | 11.70 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 10.02 | 75   | 1708557  | 11.03 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 10.88 | 97   | 1115490  | 9.83  | ppbv   | 98       |
| 48) Dibromochloromethane      | 11.80 | 129  | 1904940  | 11.19 | ppbv   | 100      |
| 49) Bromoform                 | 14.82 | 173  | 1594650  | 11.48 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 10.09 | 43   | 1621980  | 9.67  | ppbv   | 99       |
| 51) 2-Hexanone                | 11.62 | 43   | 1638331  | 10.61 | ppbv # | 100      |
| 52) Tetrachloroethene         | 12.80 | 164  | 1068611  | 9.28  | ppbv   | 99       |
| 53) Toluene                   | 11.24 | 91   | 3279416  | 10.10 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 12.15 | 107  | 1820884  | 10.14 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 13.79 | 131  | 1408172  | 8.33  | ppbv   | 97       |
| 57) Chlorobenzene             | 13.82 | 112  | 2867029  | 7.58  | ppbv   | 99       |
| 58) Ethyl Benzene             | 14.42 | 91   | 5480785  | 8.35  | ppbv   | 98       |
| 59) m/p-Xylene                | 14.72 | 91   | 8486335  | 15.69 | ppbv # | 31       |
| 60) o-Xylene                  | 15.50 | 91   | 4445382  | 7.61  | ppbv   | 99       |
| 61) Styrene                   | 15.32 | 104  | 2089370  | 9.15  | ppbv   | 99       |
| 62) Isopropylbenzene          | 16.55 | 105  | 6188001  | 8.00  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 15.49 | 83   | 2782510  | 6.38  | ppbv   | 100      |
| 64) n-propylbenzene           | 17.53 | 120  | 1680945  | 8.10  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 18.82 | 119  | 5280334  | 7.45  | ppbv   | 100      |
| 66) Benzyl Chloride           | 19.11 | 91   | 2389466  | 9.43  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 19.42 | 105  | 8264495  | 7.86  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 19.80 | 119  | 6545340  | 8.13  | ppbv   | 99       |
| 70) n-Butylbenzene            | 20.76 | 91   | 6890546  | 8.23  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 17.43 | 91   | 5073005  | 8.42  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 17.83 | 105  | 5462721  | 8.36  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 18.00 | 105  | 5037971  | 8.13  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 18.84 | 105  | 4898786  | 7.45  | ppbv # | 92       |
| 75) 1,3-Dichlorobenzene       | 19.13 | 146  | 3141034  | 7.73  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 19.28 | 146  | 3317559  | 7.96  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 20.03 | 146  | 3299181  | 8.00  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 24.68 | 225  | 1158588  | 6.89  | ppbv   | 99       |
| 79) Naphthalene               | 23.94 | 128  | 3694937  | 8.32  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 26.05 | 142  | 817087   | 11.86 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 23.74 | 180  | 1618142  | 8.01  | ppbv   | 99       |

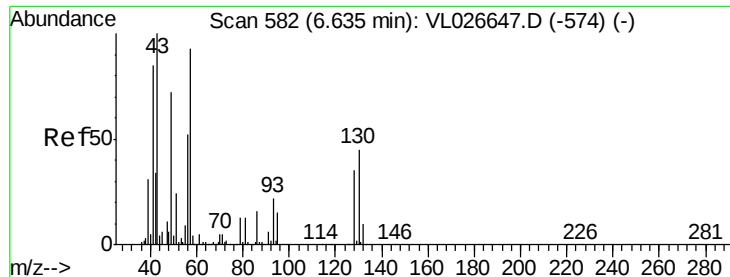
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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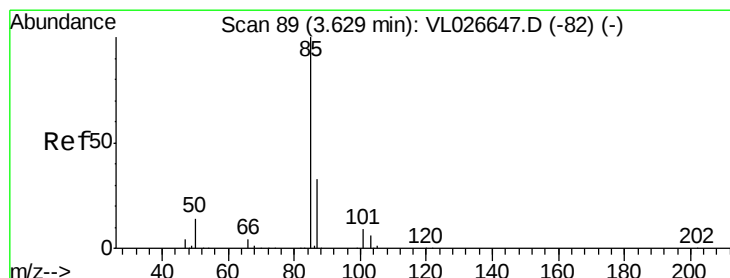
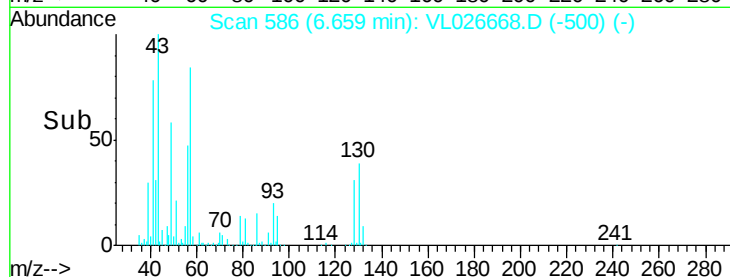
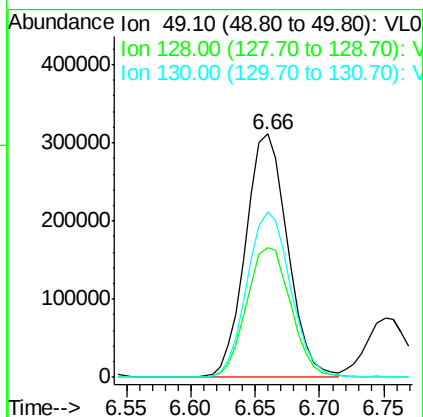
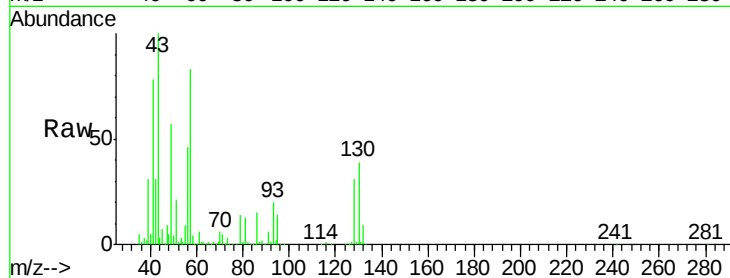




#1  
Bromochloromethane  
Concen: 10.00 ppbv  
RT: 6.66 min Scan# 586  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

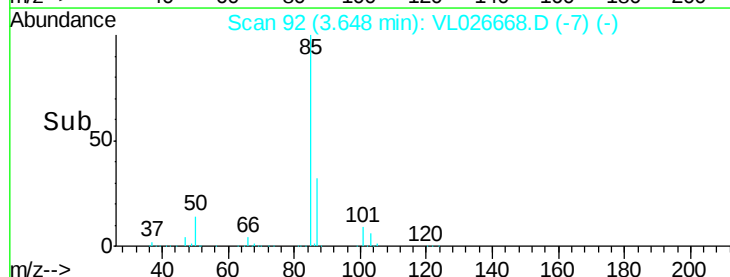
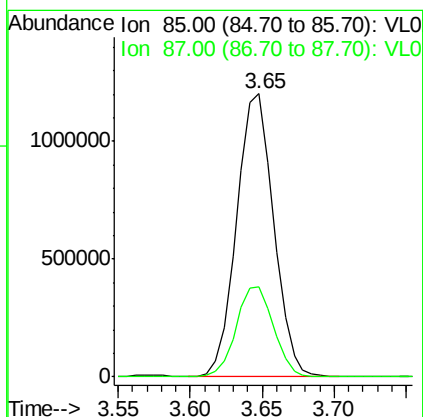
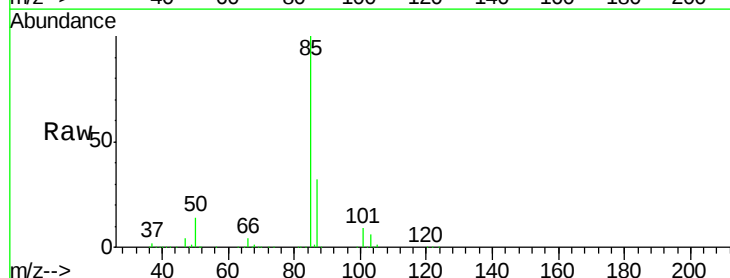
Instrument :  
MSVOA\_L  
ClientSampleId :

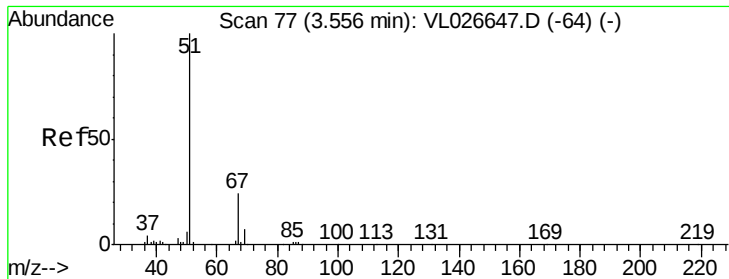
Tot Ion: 49 Resp: 707441  
Ion Ratio Lower Upper  
49 100  
128 56.3 25.9 77.7  
130 71.2 33.6 100.8



#2  
Dichlorodifluoromethane  
Concen: 11.39 ppbv  
RT: 3.65 min Scan# 92  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Tgt Ion: 85 Resp: 2142289  
Ion Ratio Lower Upper  
85 100  
87 31.7 26.4 39.6





#3

Chlorodifluoromethane

Concen: 10.00 ppbv

RT: 3.57 min Scan# 80

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

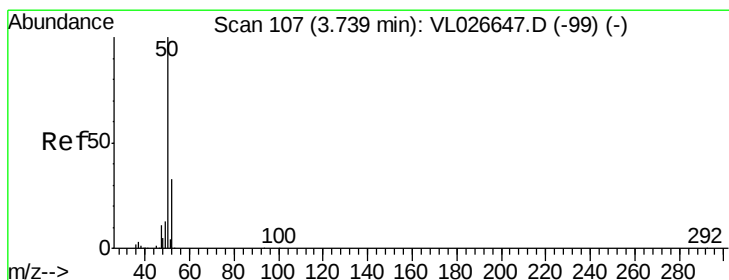
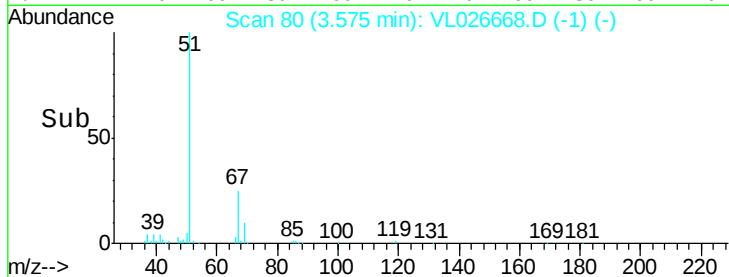
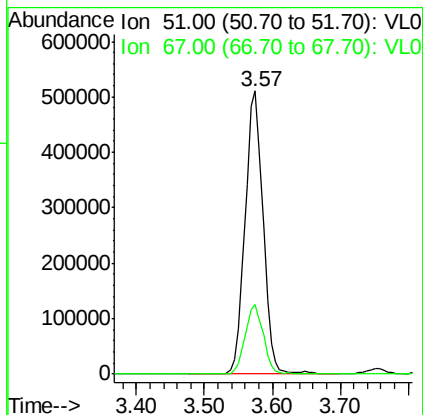
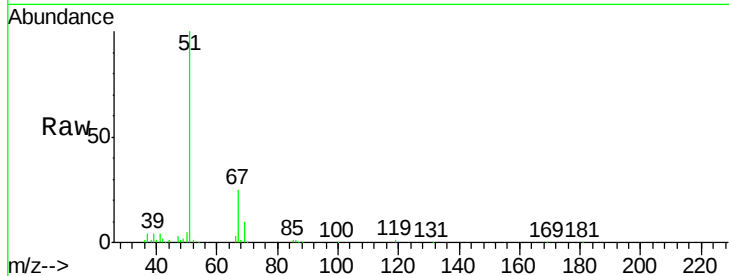
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 51 Resp: 941801

Ion Ratio Lower Upper

51 100

67 24.9 18.6 28.0



#4

Chloromethane

Concen: 9.20 ppbv

RT: 3.75 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL026668.D

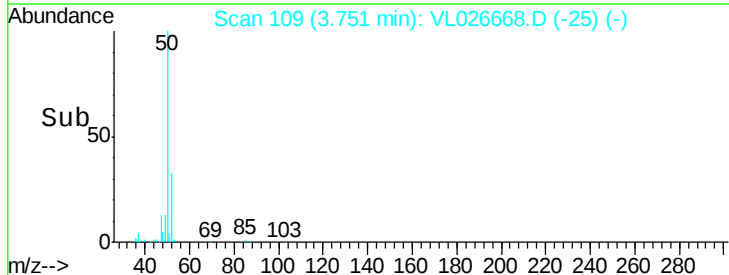
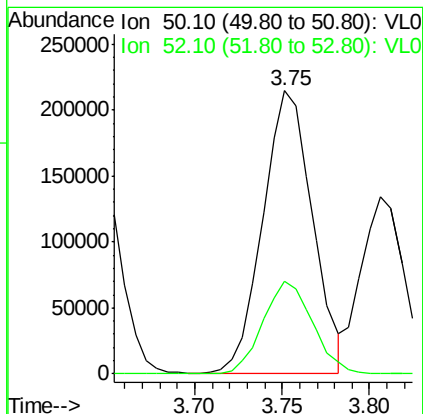
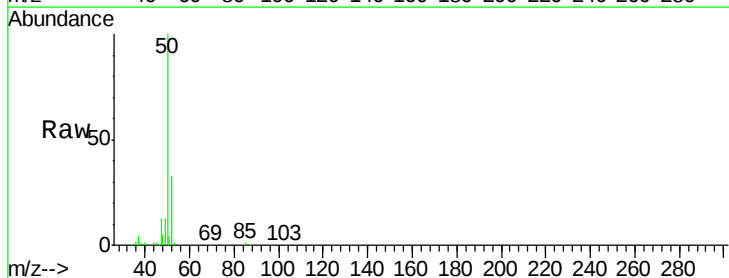
Acq: 12 Jan 2016 9:09

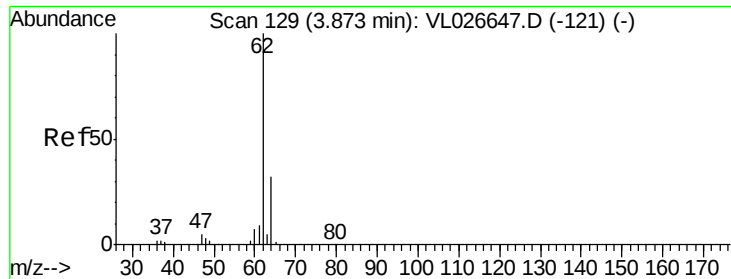
Tgt Ion: 50 Resp: 423897

Ion Ratio Lower Upper

50 100

52 32.8 26.7 40.1





#5

Vinyl Chloride

Concen: 9.18 ppbv

RT: 3.89 min Scan# 132

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

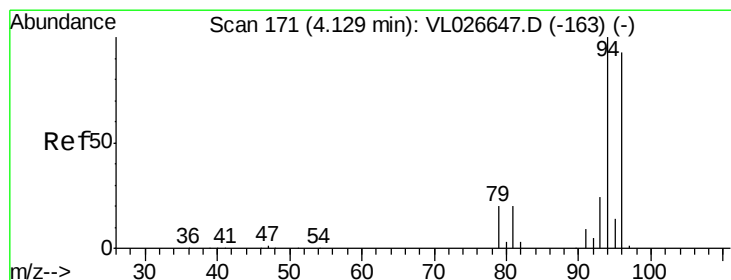
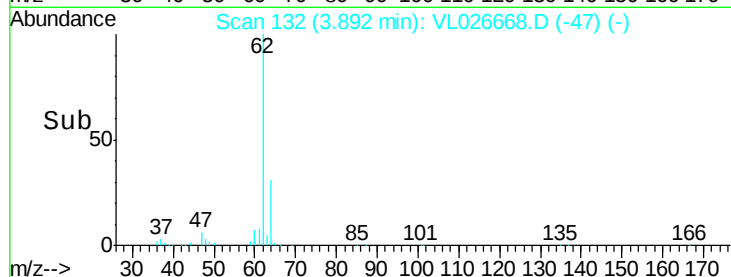
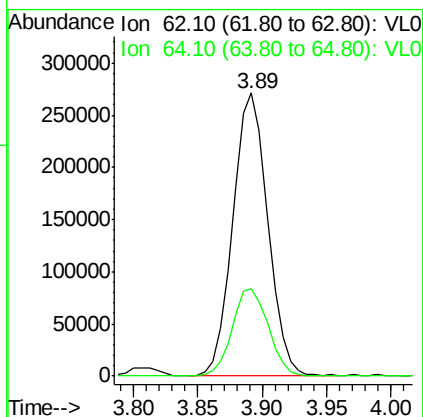
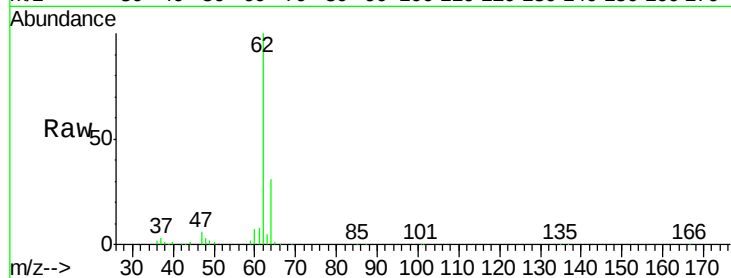
ClientSampleId :

Tot Ion: 62 Resp: 512046

Ion Ratio Lower Upper

62 100

64 31.0 25.6 38.4



#6

Bromomethane

Concen: 10.40 ppbv

RT: 4.14 min Scan# 173

Delta R.T. 0.01 min

Lab File: VL026668.D

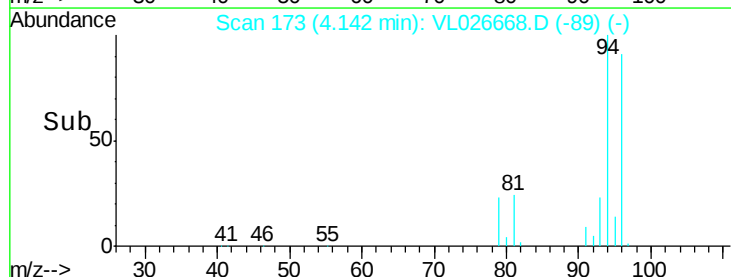
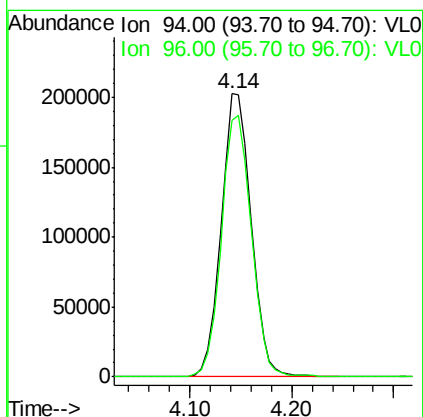
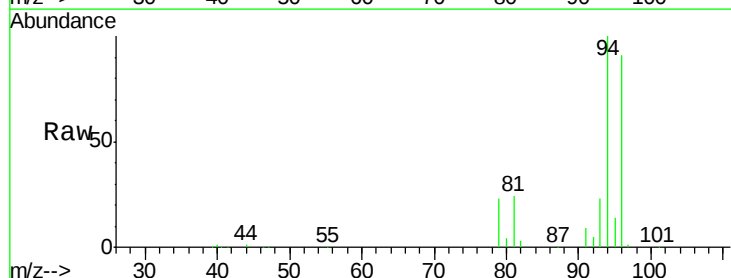
Acq: 12 Jan 2016 9:09

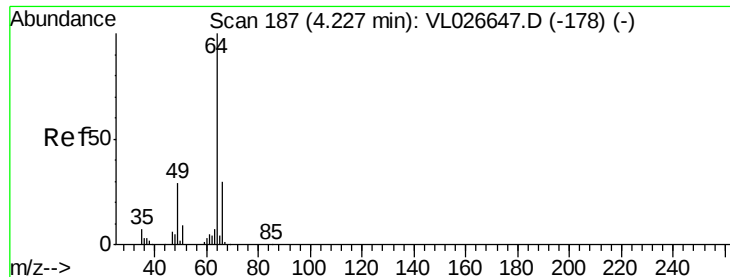
Tgt Ion: 94 Resp: 413133

Ion Ratio Lower Upper

94 100

96 90.6 74.6 112.0





#7

Chloroethane

Concen: 10.24 ppbv

RT: 4.25 min Scan# 190

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

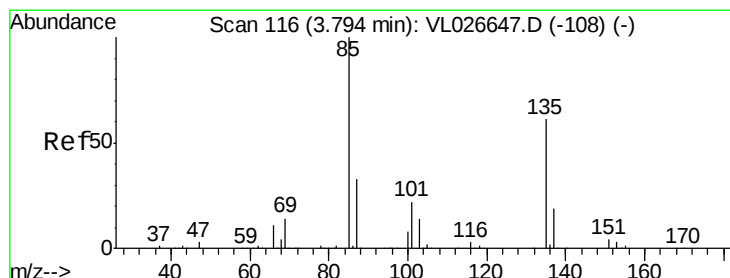
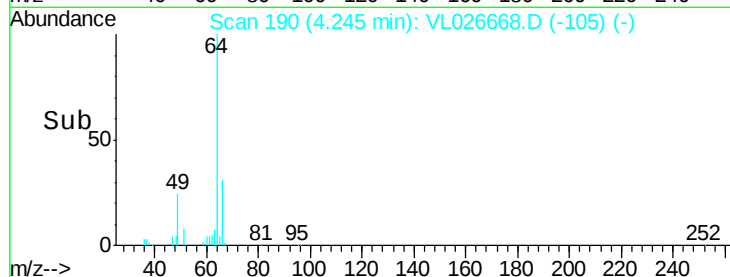
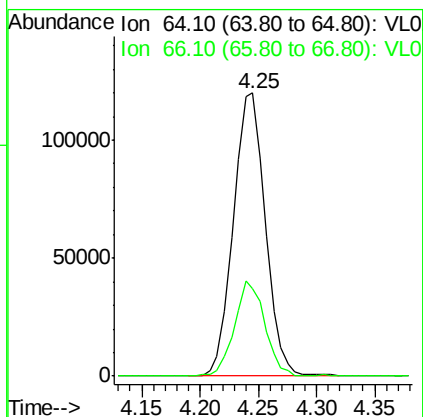
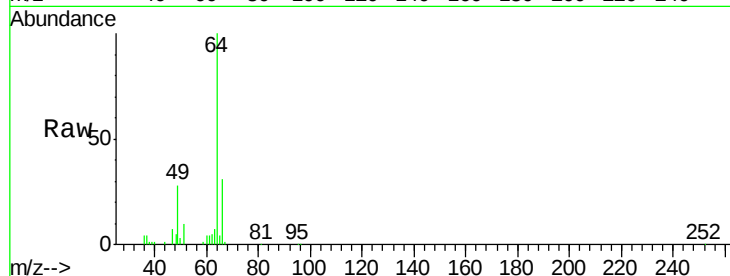
ClientSampleId :

Tot Ion: 64 Resp: 231012

Ion Ratio Lower Upper

64 100

66 30.8 24.3 36.5



#8

Dichlorotetrafluoroethane

Concen: 10.50 ppbv

RT: 3.81 min Scan# 118

Delta R.T. 0.01 min

Lab File: VL026668.D

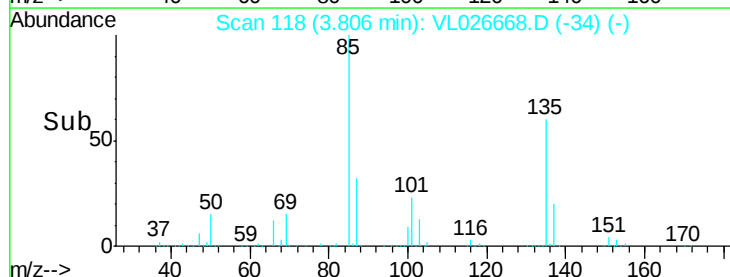
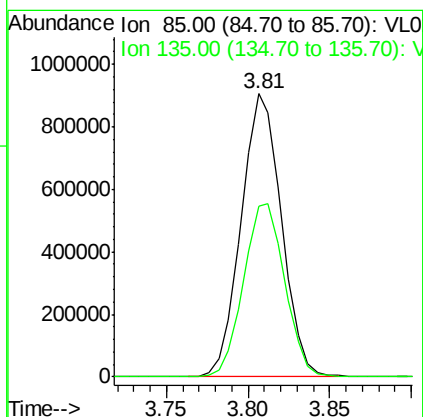
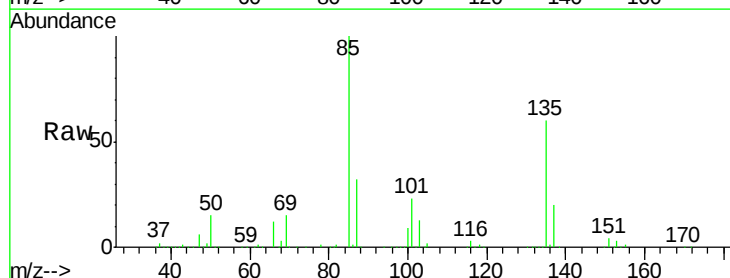
Acq: 12 Jan 2016 9:09

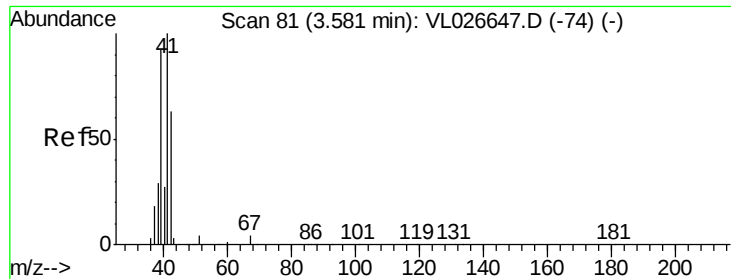
Tgt Ion: 85 Resp: 1551498

Ion Ratio Lower Upper

85 100

135 63.1 49.8 74.6





#9

Propene

Concen: 8.76 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

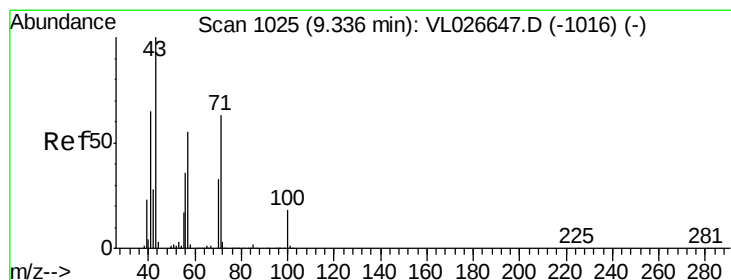
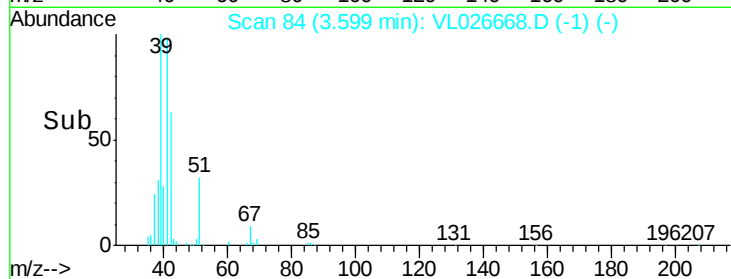
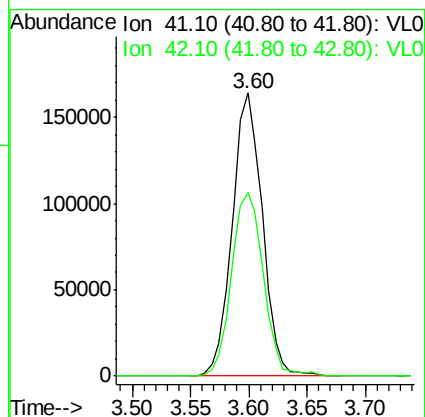
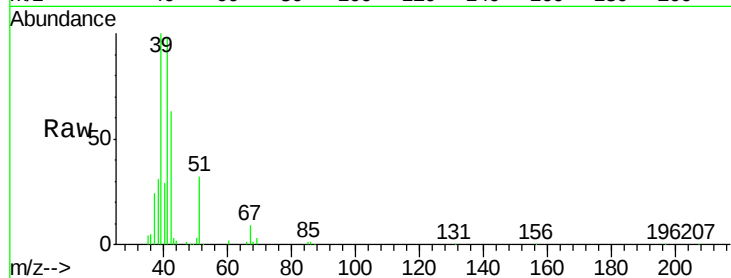
ClientSampleId :

Tot Ion: 41 Resp: 296585

Ion Ratio Lower Upper

41 100

42 68.6 53.6 80.4



#10

Heptane

Concen: 9.78 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. 0.02 min

Lab File: VL026668.D

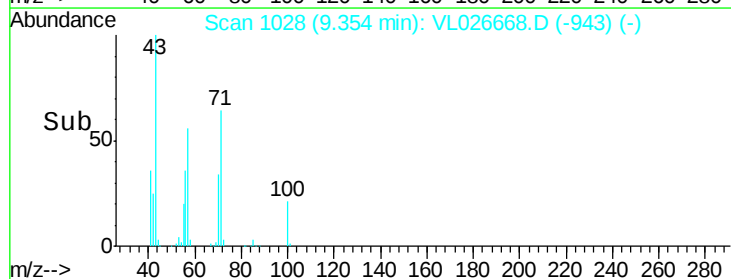
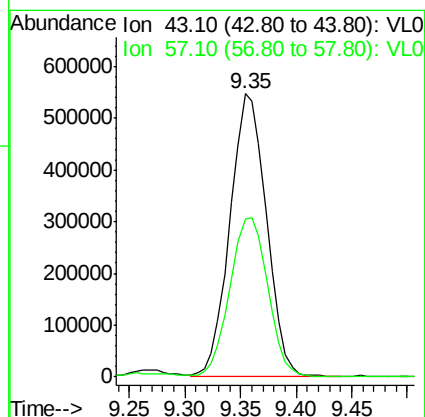
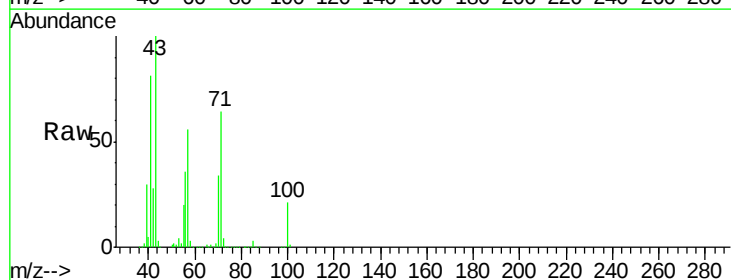
Acq: 12 Jan 2016 9:09

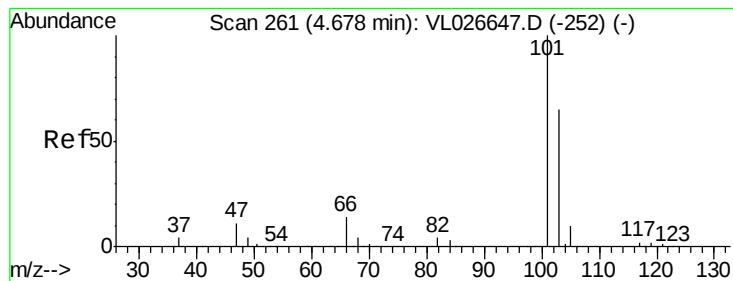
Tgt Ion: 43 Resp: 1233395

Ion Ratio Lower Upper

43 100

57 60.3 45.8 68.6





#11

Trichlorofluoromethane

Concen: 11.53 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

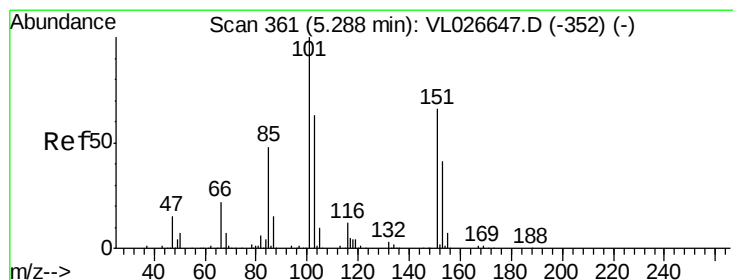
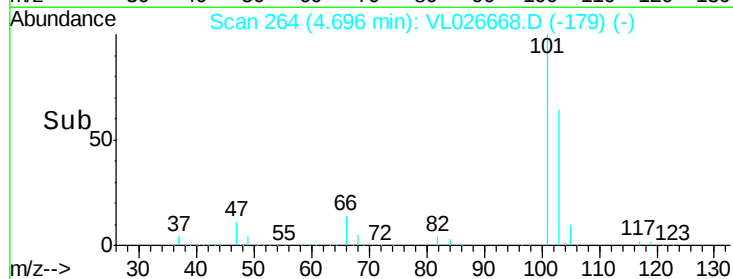
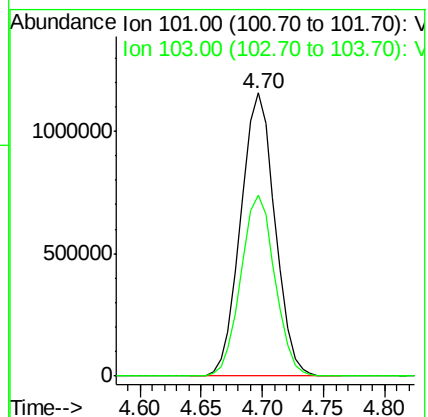
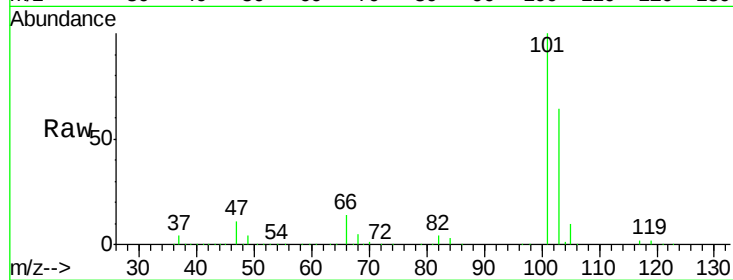
ClientSampleId :

Tot Ion:101 Resp: 2247908

Ion Ratio Lower Upper

101 100

103 64.1 51.7 77.5



#12

1,1,2-Trichlorotrifluoroethane

Concen: 11.00 ppbv

RT: 5.31 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL026668.D

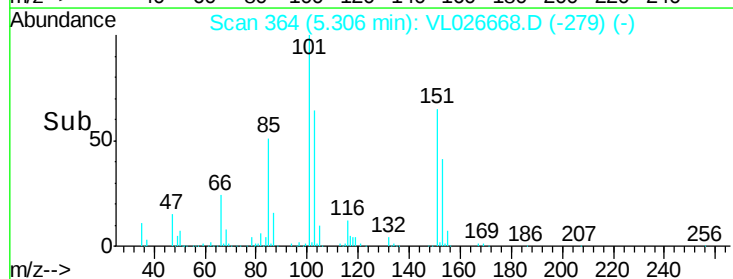
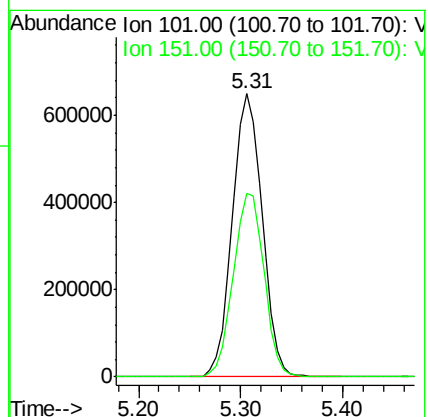
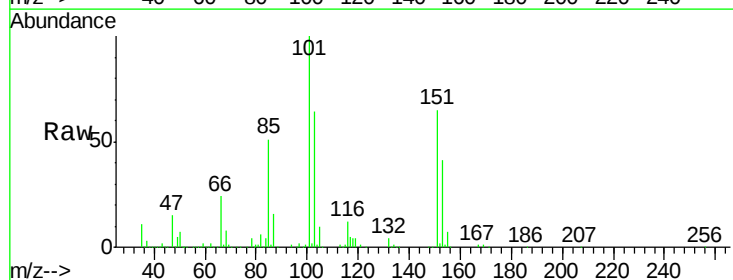
Acq: 12 Jan 2016 9:09

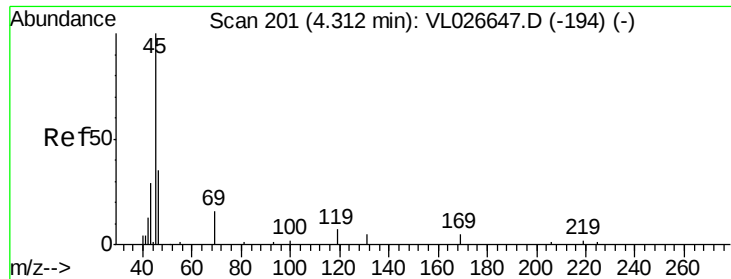
Tgt Ion:101 Resp: 1317642

Ion Ratio Lower Upper

101 100

151 66.8 54.2 81.4





#13

Ethanol

Concen: 9.21 ppbv

RT: 4.33 min Scan# 204

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

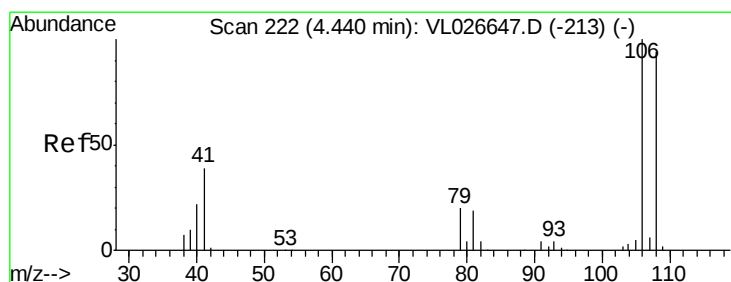
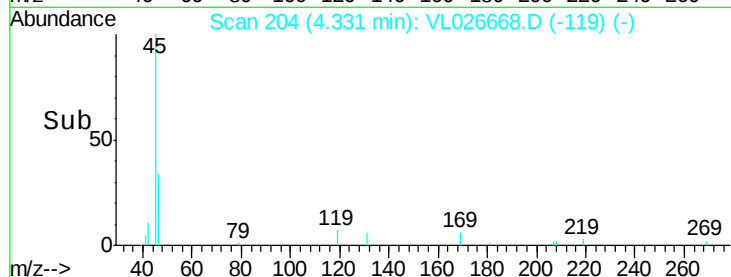
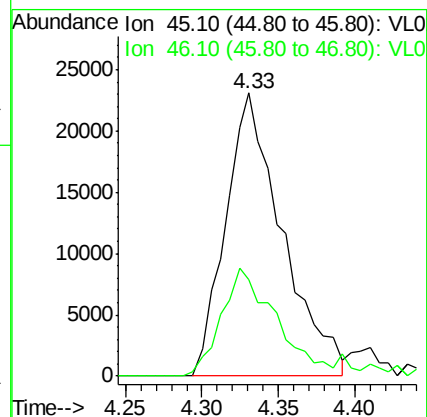
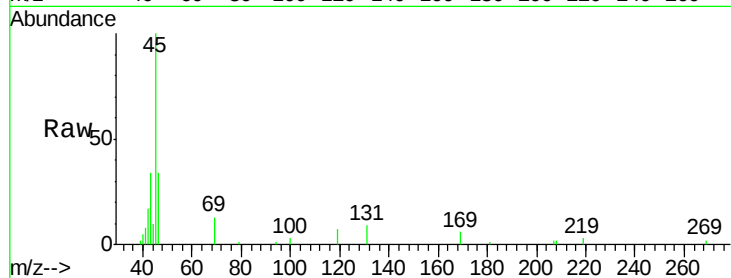
ClientSampleId :

Tot Ion: 45 Resp: 59255

Ion Ratio Lower Upper

45 100

46 41.6 16.7 66.7



#14

Bromoethene

Concen: 10.77 ppbv

RT: 4.45 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

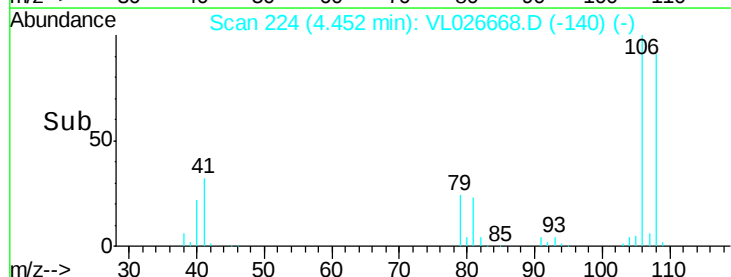
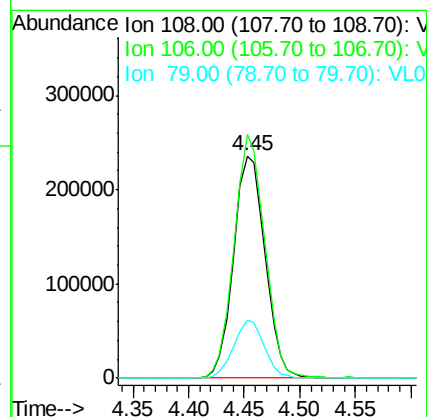
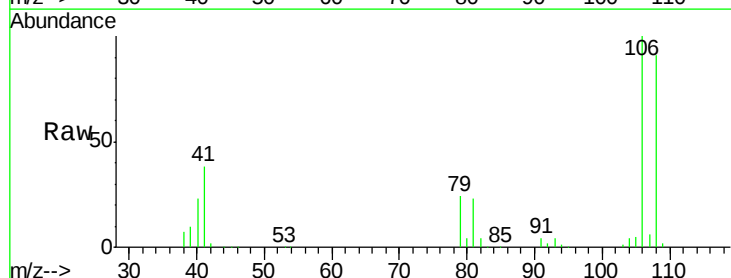
Tgt Ion: 108 Resp: 464597

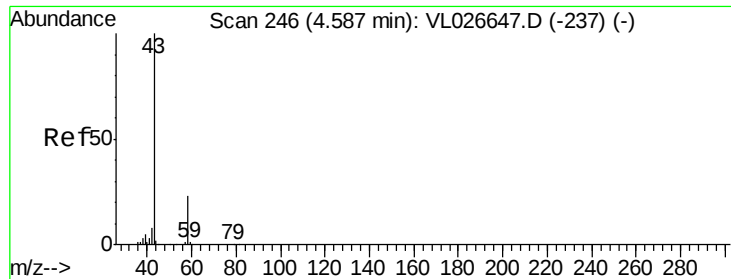
Ion Ratio Lower Upper

108 100

106 106.9 86.4 129.6

79 25.6 17.2 25.8





#15

Acetone

Concen: 9.40 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

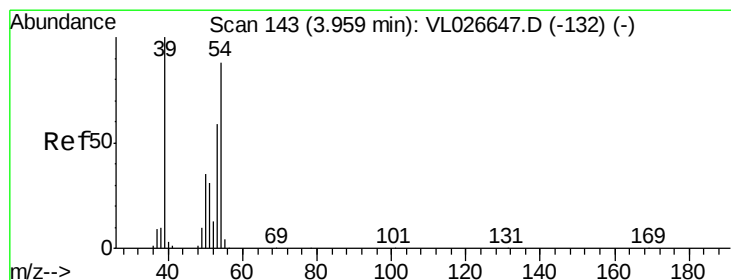
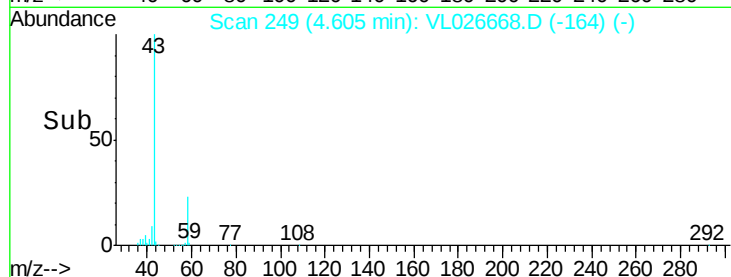
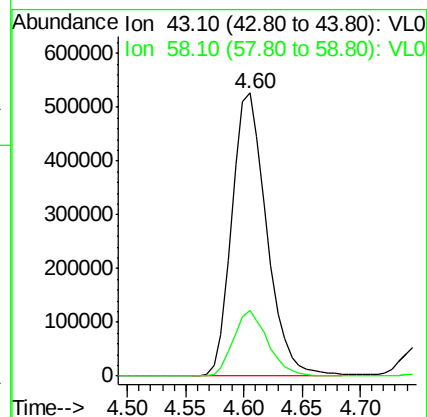
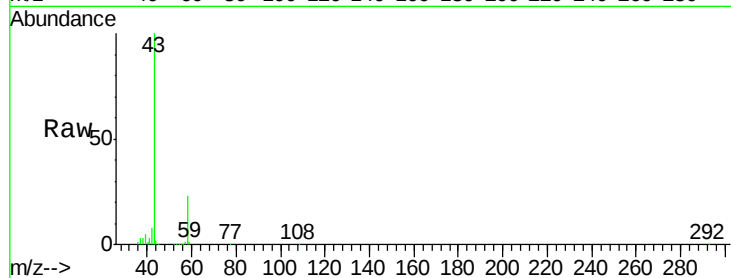
ClientSampleId :

Tot Ion: 43 Resp: 1093905

Ion Ratio Lower Upper

43 100

58 23.2 19.2 28.8



#16

1,3-Butadiene

Concen: 9.80 ppbv

RT: 3.97 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL026668.D

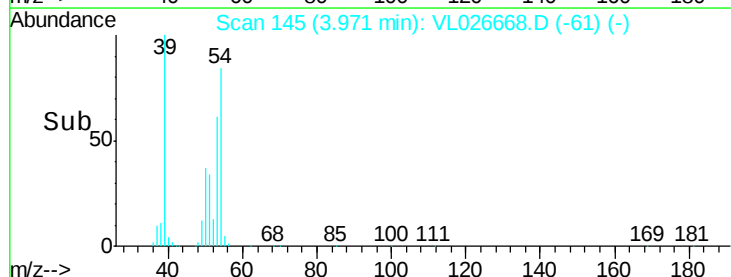
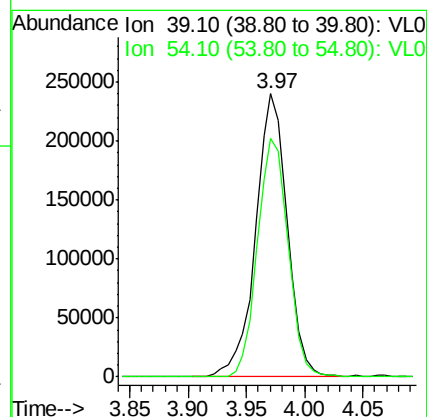
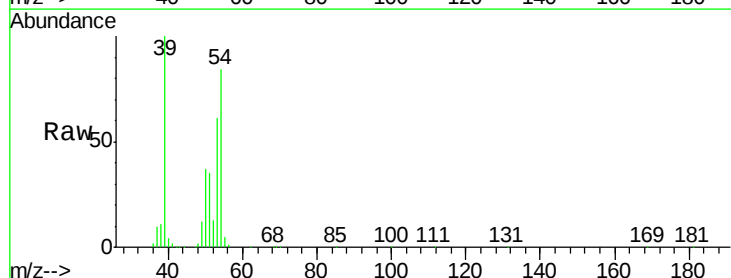
Acq: 12 Jan 2016 9:09

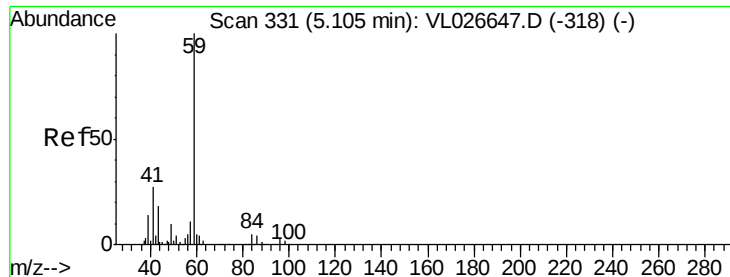
Tgt Ion: 39 Resp: 455246

Ion Ratio Lower Upper

39 100

54 82.0 66.6 100.0



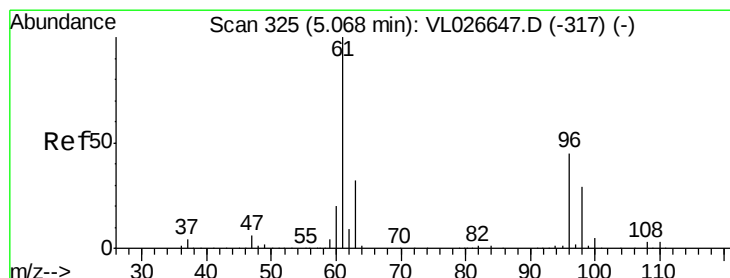
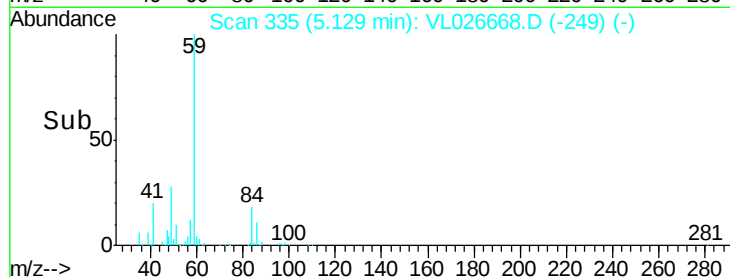
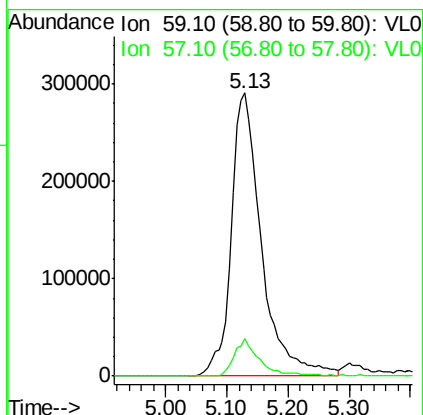
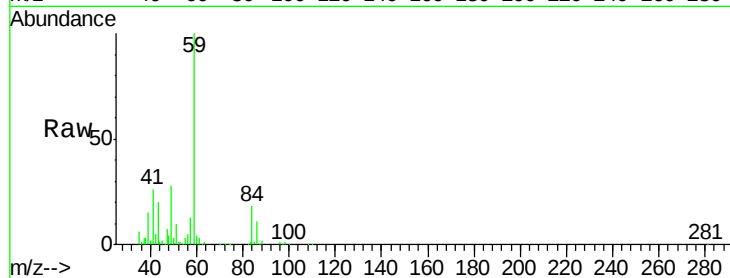


#17

tert-Butyl alcohol  
 Concen: 11.29 ppbv  
 RT: 5.13 min Scan# 335  
 Delta R.T. 0.02 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :

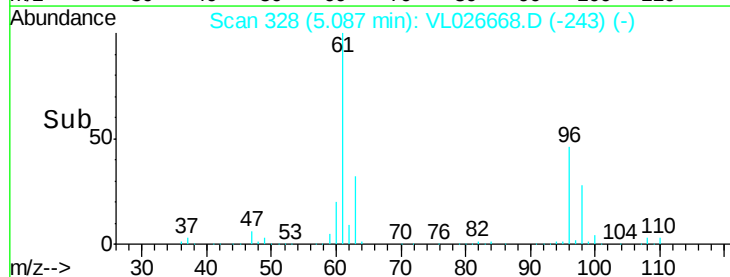
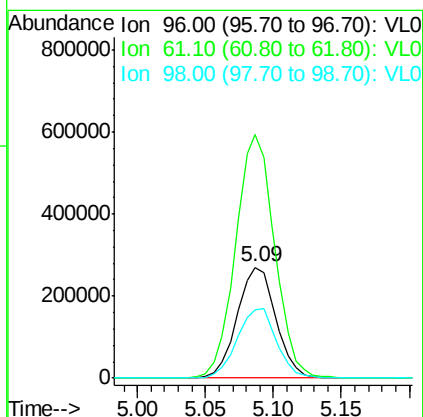
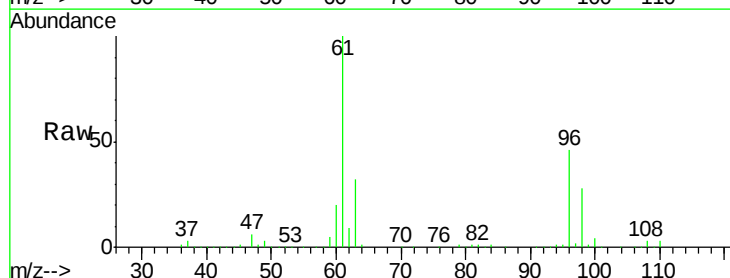
Tot Ion: 59 Resp: 990368  
 Ion Ratio Lower Upper  
 59 100  
 57 11.1 9.0 13.6

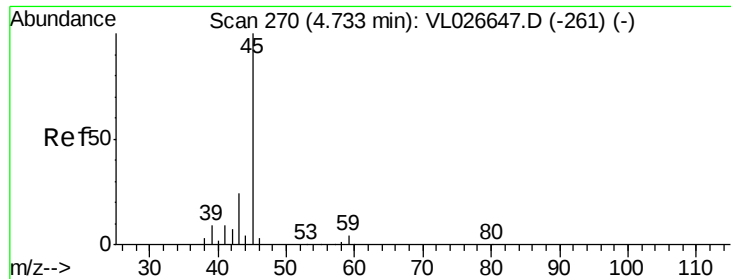


#18

1,1-Dichloroethene  
 Concen: 10.76 ppbv  
 RT: 5.09 min Scan# 328  
 Delta R.T. 0.02 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

Tgt Ion: 96 Resp: 537422  
 Ion Ratio Lower Upper  
 96 100  
 61 219.5 176.7 265.1  
 98 62.1 51.8 77.6





#19

Isopropyl Alcohol

Concen: 10.31 ppbv

RT: 4.75 min Scan# 273

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

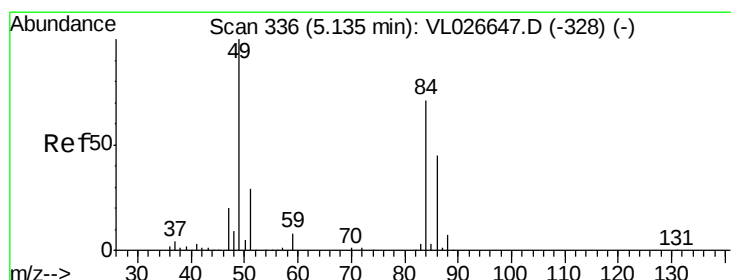
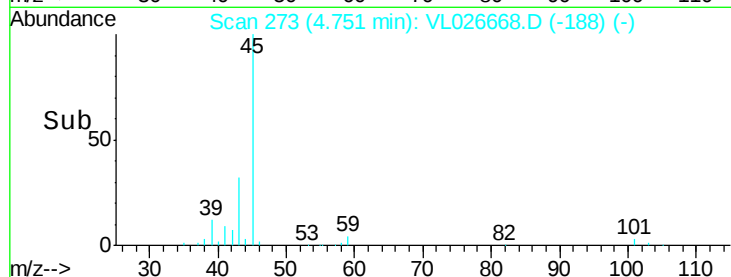
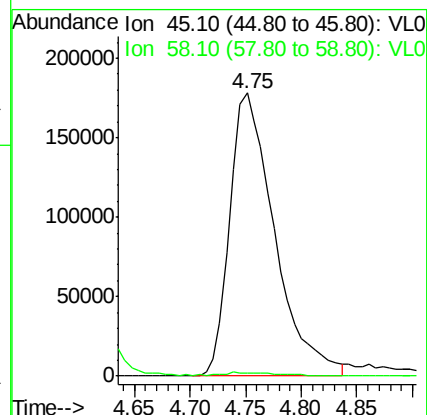
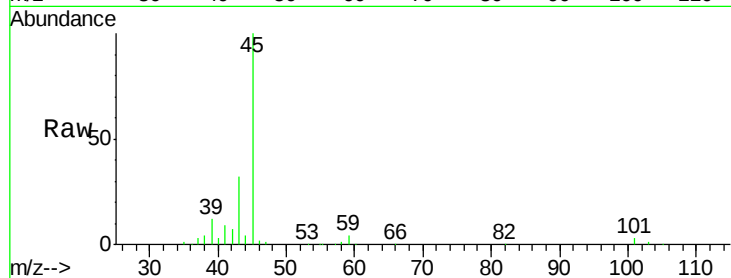
ClientSampleId :

Tot Ion: 45 Resp: 494859

Ion Ratio Lower Upper

45 100

58 2.1 1.3 1.9#



#20

Methylene Chloride

Concen: 10.04 ppbv

RT: 5.15 min Scan# 339

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion: 84 Resp: 479667

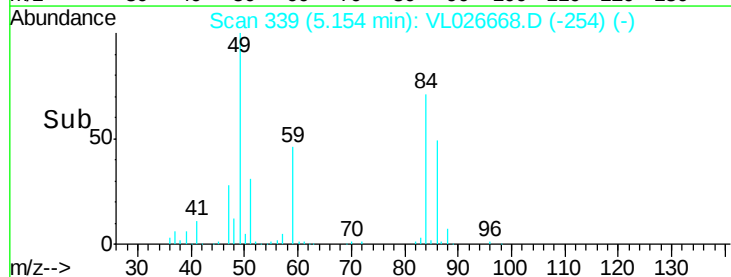
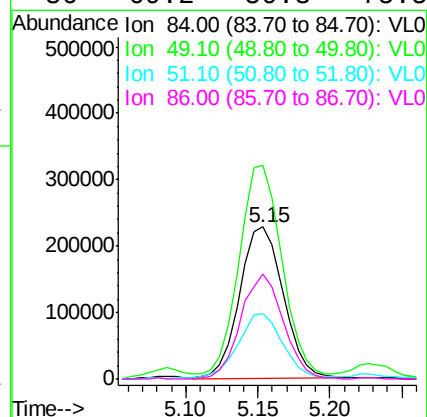
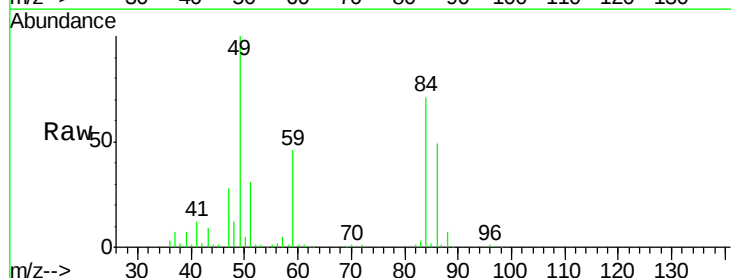
Ion Ratio Lower Upper

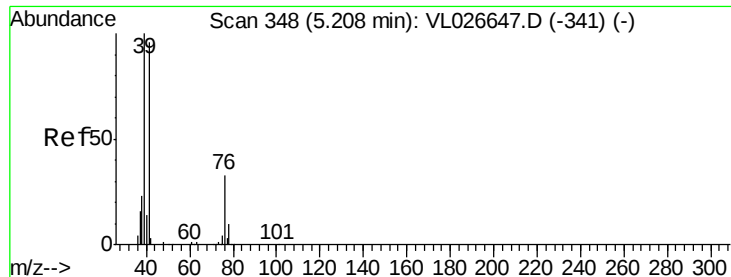
84 100

49 138.3 112.3 168.5

51 42.4 32.5 48.7

86 69.2 50.3 75.5

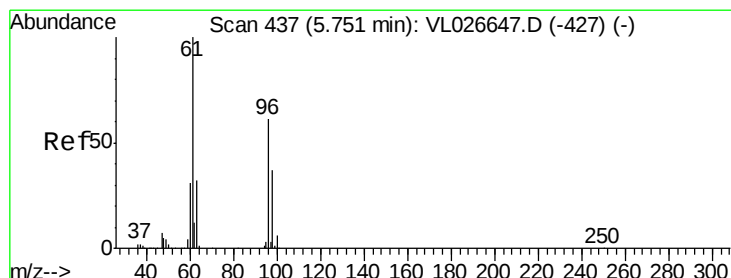
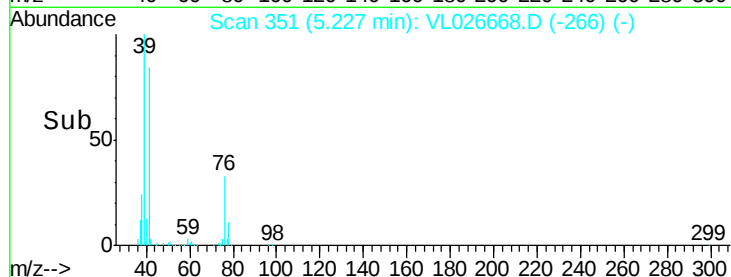
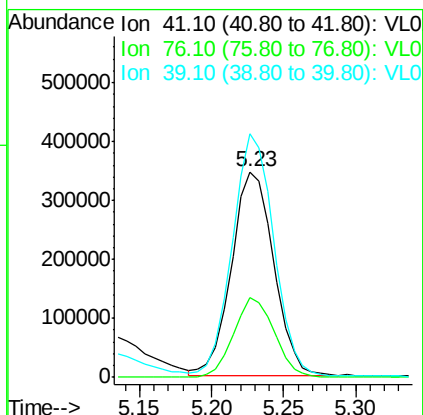
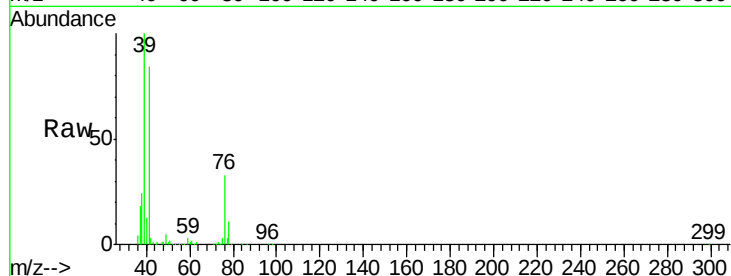




#21  
Allvl Chloride  
Concen: 9.91 ppbv  
RT: 5.23 min Scan# 351  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

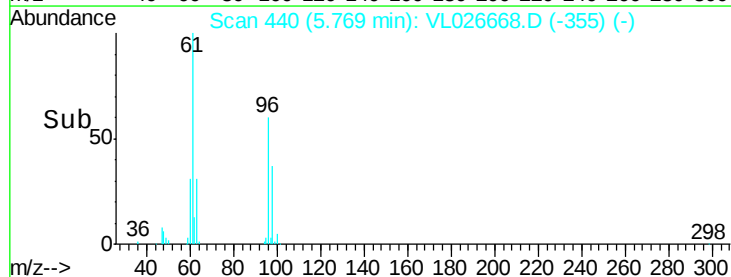
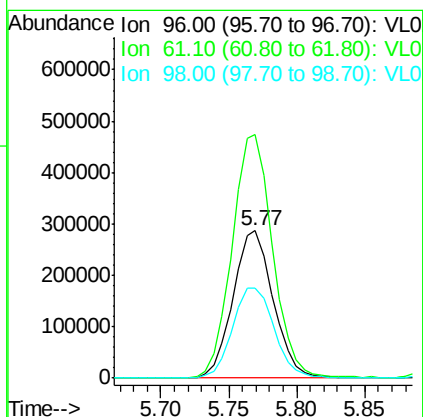
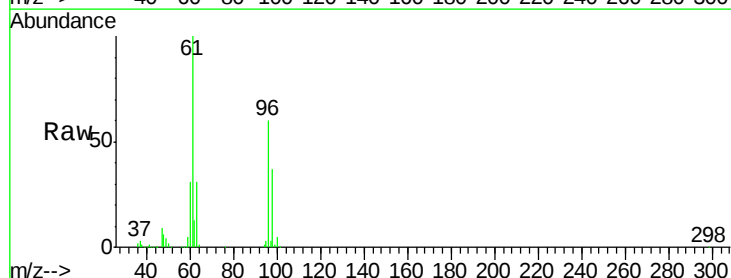
Instrument :  
MSVOA\_L  
ClientSampled :

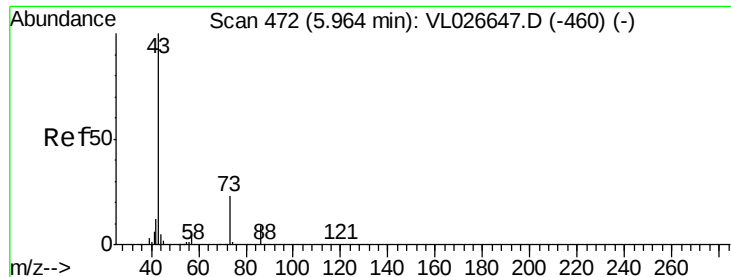
Tot Ion: 41 Resp: 707403  
Ion Ratio Lower Upper  
41 100  
76 37.8 27.5 41.3  
39 118.3 83.0 124.6



#22  
trans-1,2-Dichloroethene  
Concen: 10.40 ppbv  
RT: 5.77 min Scan# 440  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Tgt Ion: 96 Resp: 593265  
Ion Ratio Lower Upper  
96 100  
61 165.4 131.0 196.6  
98 61.3 48.1 72.1





#23

Vinyl Acetate

Concen: 10.23 ppbv

RT: 5.98 min Scan# 475

Delta R.T. 0.02 min

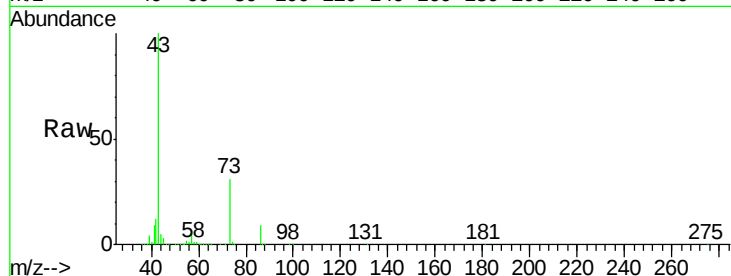
Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 43 Resp: 1828601

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 9.4   | 7.4   | 11.0  |
| 42  | 12.4  | 9.2   | 13.8  |
| 44  | 4.8   | 3.8   | 5.8   |

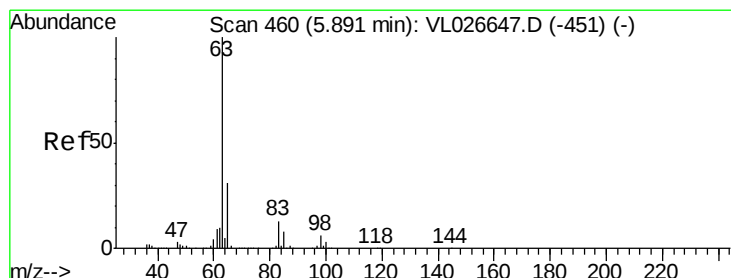
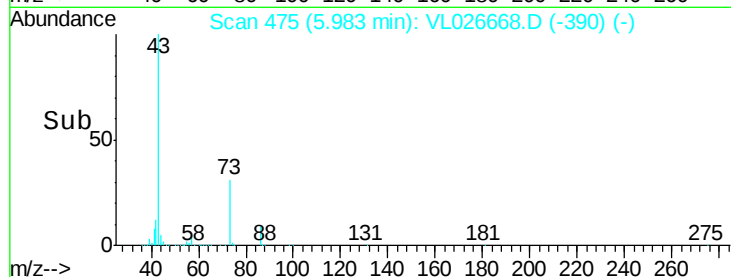
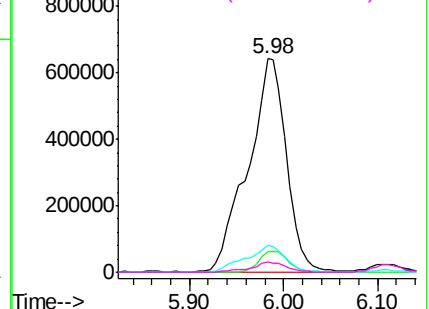


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.09 ppbv

RT: 5.92 min Scan# 464

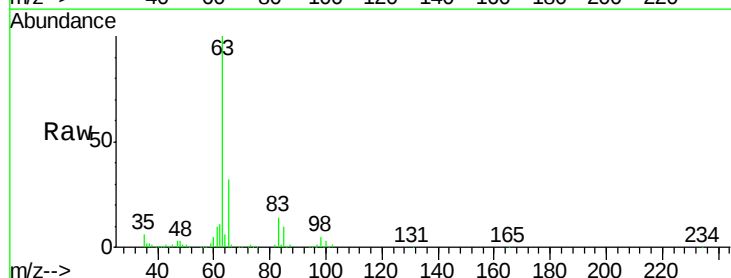
Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion: 63 Resp: 1300152

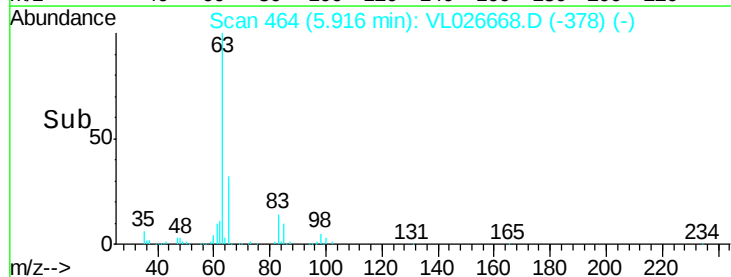
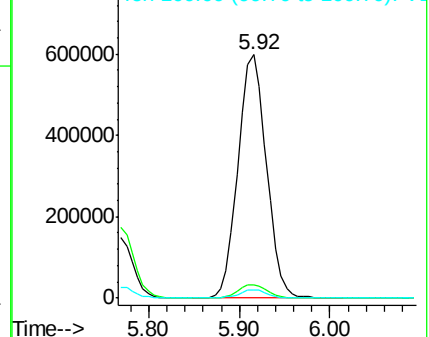
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 5.3   | 2.9   | 8.7   |
| 100 | 3.1   | 1.6   | 4.8   |

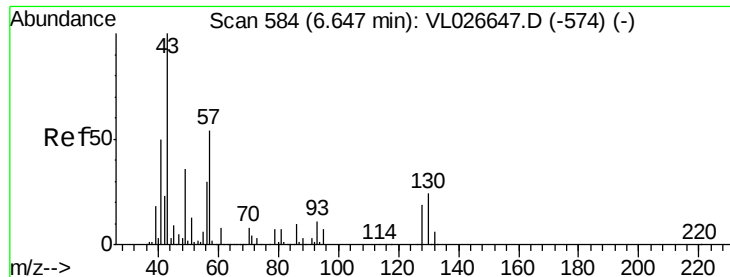


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.02 ppbv

RT: 6.67 min Scan# 588

Delta R.T. 0.02 min

Lab File: VL026668.D

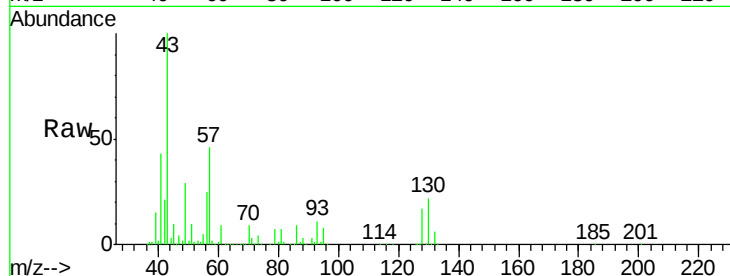
Acq: 12 Jan 2016 9:09

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 1799279

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.4   | 7.5   | 11.3  |
| 61  | 9.1   | 7.3   | 10.9  |
| 70  | 9.9   | 7.4   | 11.0  |

|    |     |     |      |
|----|-----|-----|------|
| 43 | 100 |     |      |
| 45 | 9.4 | 7.5 | 11.3 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 9.9 | 7.4 | 11.0 |



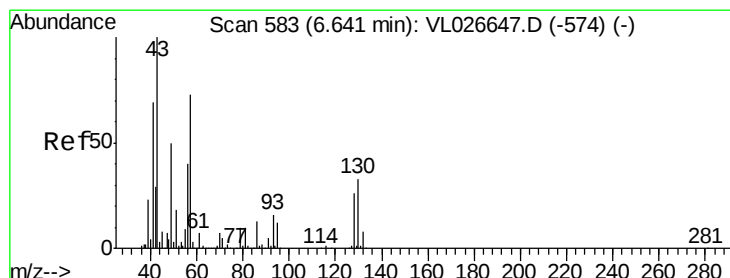
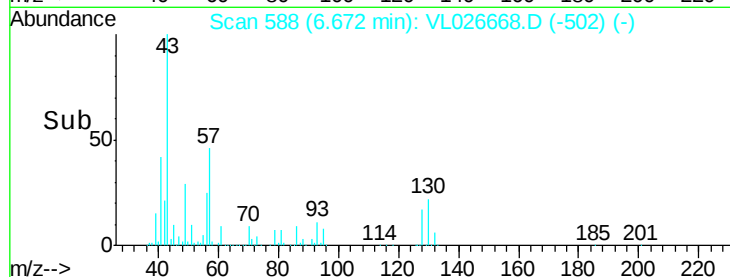
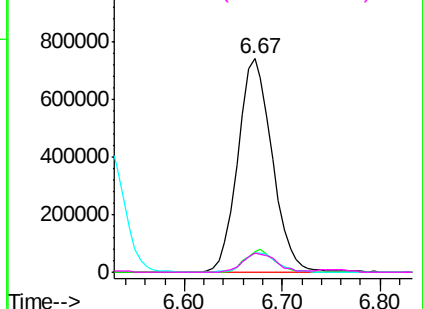
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion: 57 Resp: 928850

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 96.3  | 74.8  | 112.2 |
| 43  | 196.9 | 161.5 | 242.3 |
| 56  | 55.5  | 44.4  | 66.6  |

|    |       |       |       |
|----|-------|-------|-------|
| 57 | 100   |       |       |
| 41 | 96.3  | 74.8  | 112.2 |
| 43 | 196.9 | 161.5 | 242.3 |
| 56 | 55.5  | 44.4  | 66.6  |

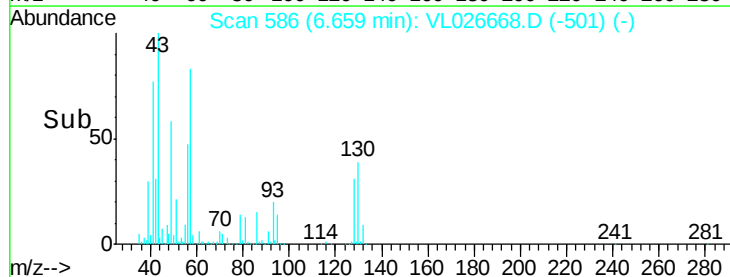
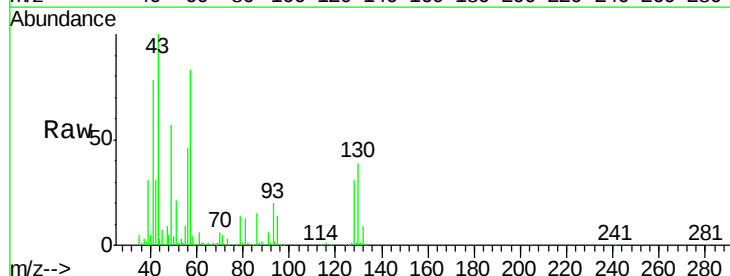
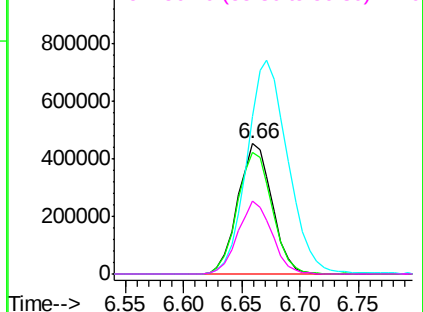
Abundance

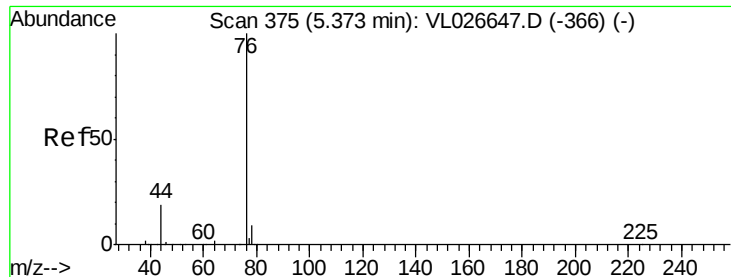
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.12 ppbv

RT: 5.39 min Scan# 378

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

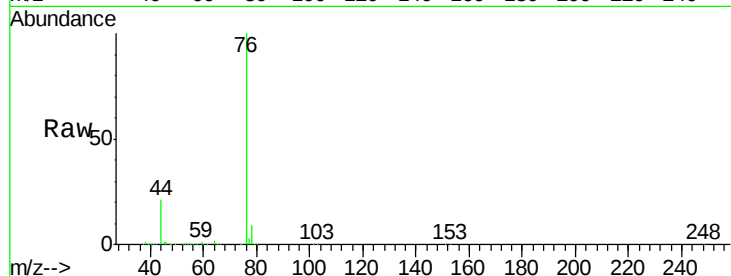
Tot Ion: 76 Resp: 1535491

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 21.9  | 15.9  | 23.9  |
| 78  | 9.2   | 7.6   | 11.4  |

76 100

44 21.9 15.9 23.9

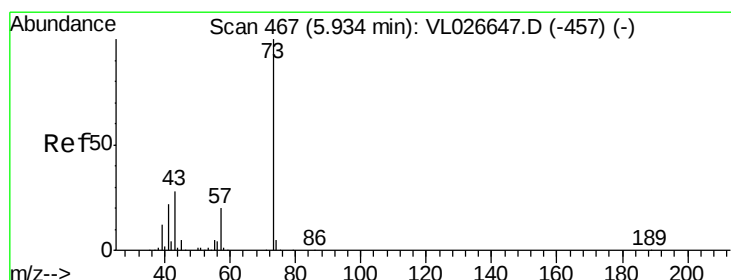
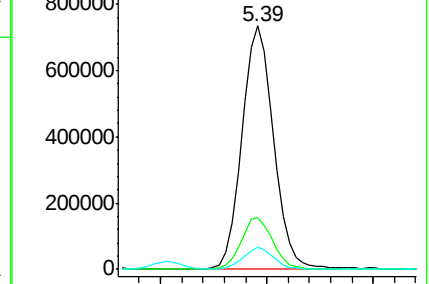
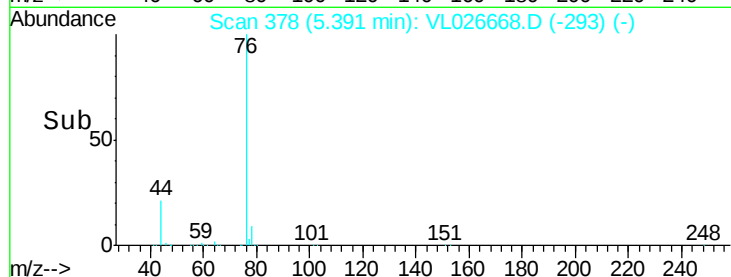
78 9.2 7.6 11.4



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: 10.91 ppbv

RT: 5.95 min Scan# 470

Delta R.T. 0.02 min

Lab File: VL026668.D

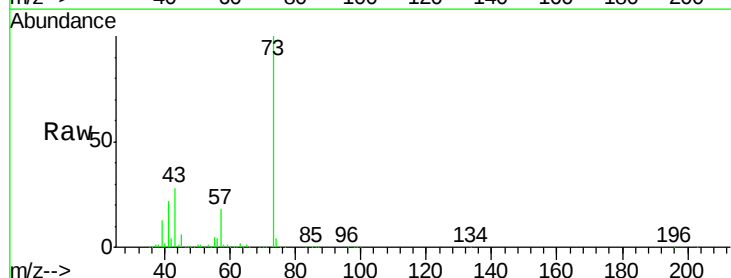
Acq: 12 Jan 2016 9:09

Tgt Ion: 73 Resp: 2015163

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 18.4  | 16.2  | 24.4  |

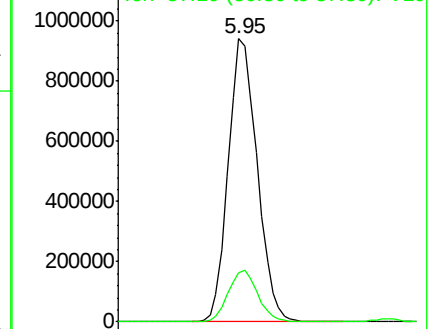
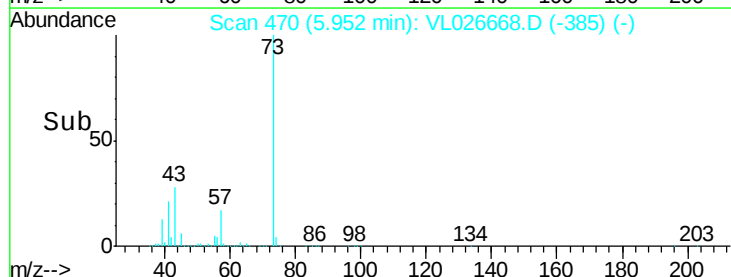
73 100

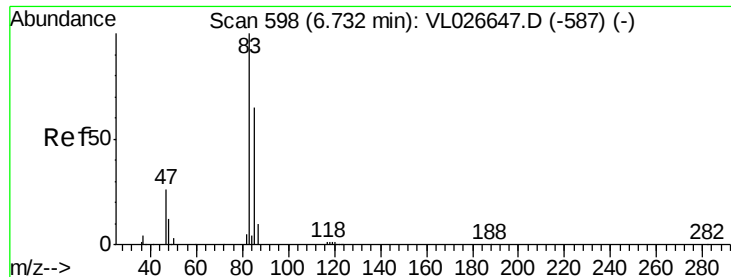
57 18.4 16.2 24.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.85 ppbv

RT: 6.75 min Scan# 601

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

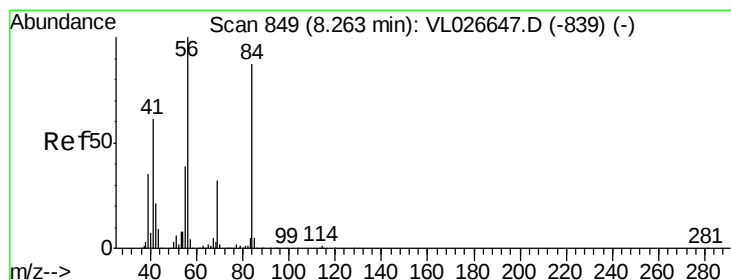
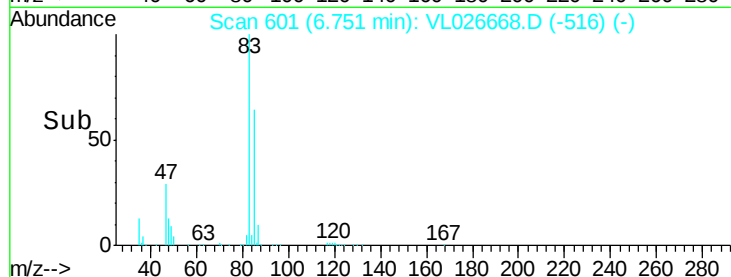
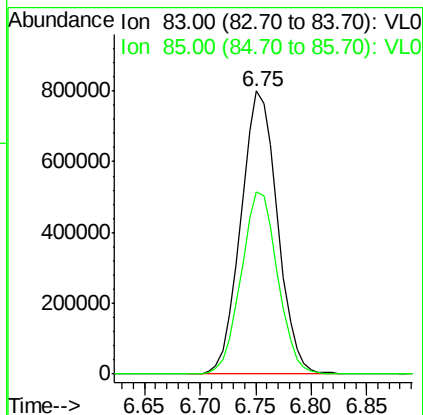
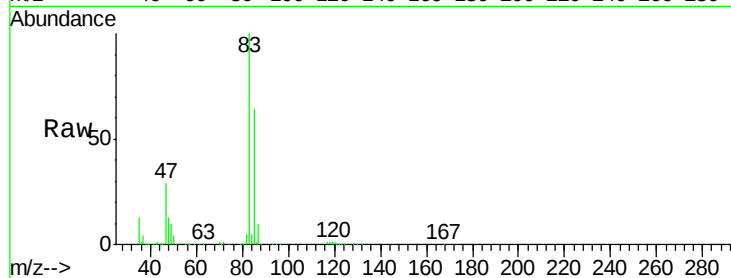
ClientSampleId :

Tot Ion: 83 Resp: 1829479

Ion Ratio Lower Upper

83 100

85 64.4 51.6 77.4



#30

Cyclohexane

Concen: 10.69 ppbv

RT: 8.29 min Scan# 853

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

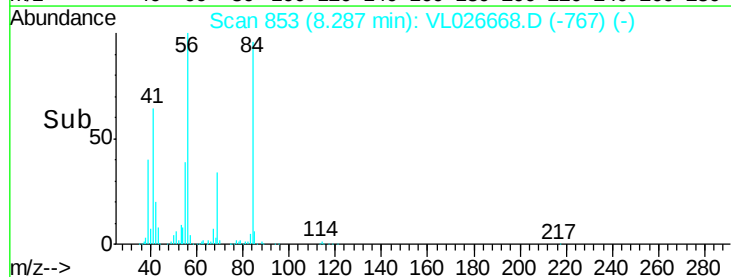
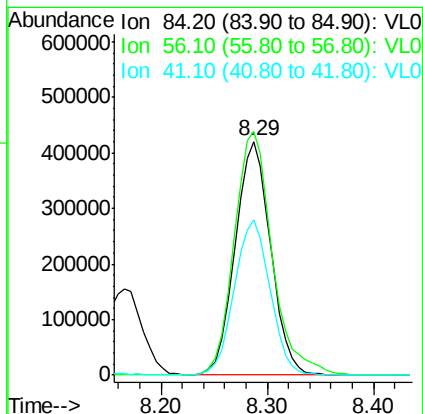
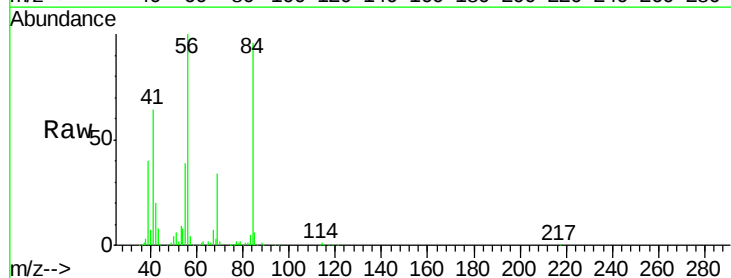
Tgt Ion: 84 Resp: 980588

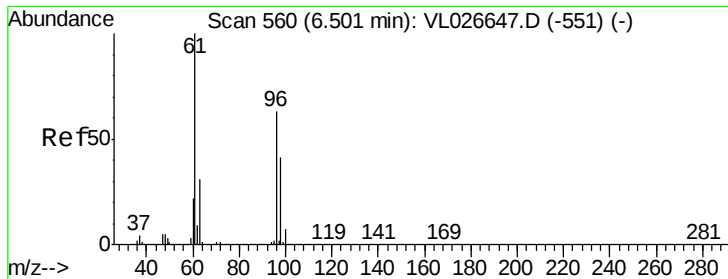
Ion Ratio Lower Upper

84 100

56 112.2 95.9 143.9

41 67.6 54.8 82.2



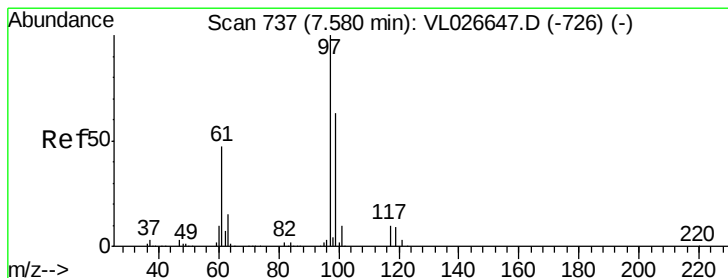
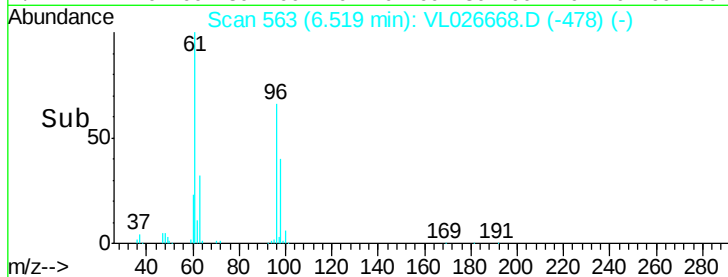
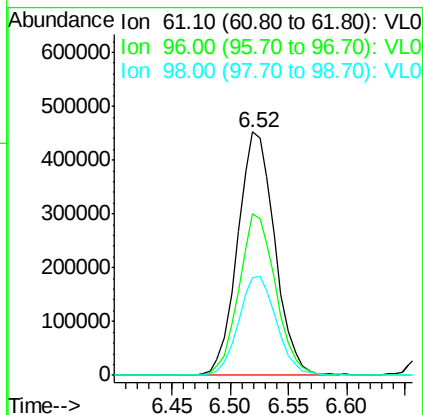
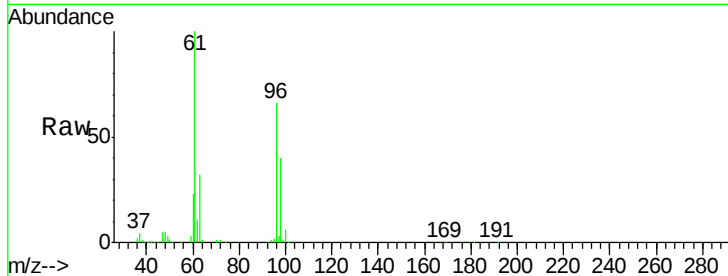


#31

cis-1,2-Dichloroethene  
Concen: 10.74 ppbv  
RT: 6.52 min Scan# 563  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Instrument :  
MSVOA\_L  
ClientSampled :

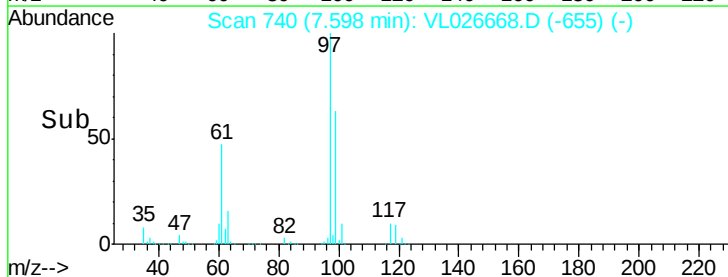
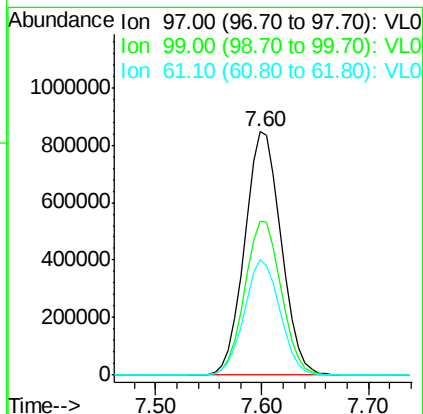
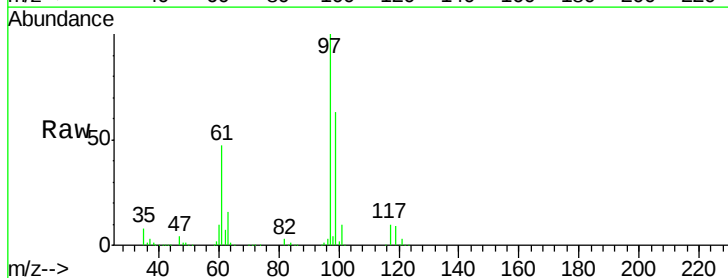
Tot Ion: 61 Resp: 1005379  
Ion Ratio Lower Upper  
61 100  
96 66.4 50.2 75.4  
98 40.3 32.4 48.6

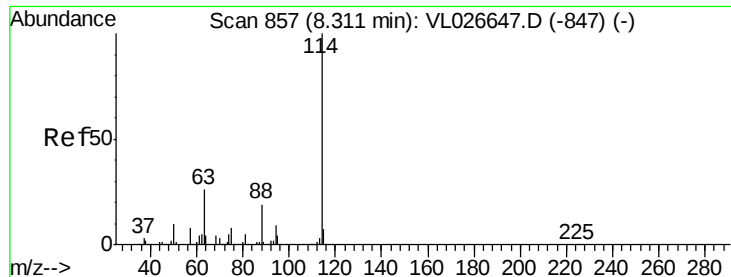


#32

1,1,1-Trichloroethane  
Concen: 10.71 ppbv  
RT: 7.60 min Scan# 740  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Tgt Ion: 97 Resp: 2038930  
Ion Ratio Lower Upper  
97 100  
99 63.4 50.8 76.2  
61 46.9 38.9 58.3

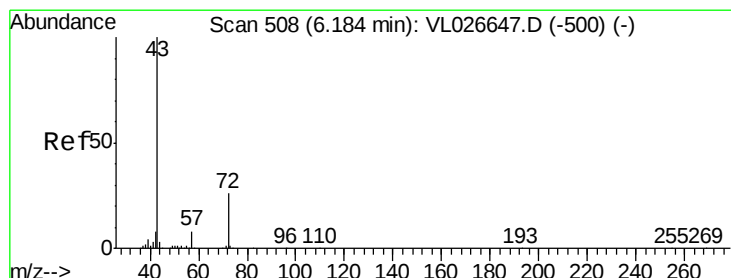
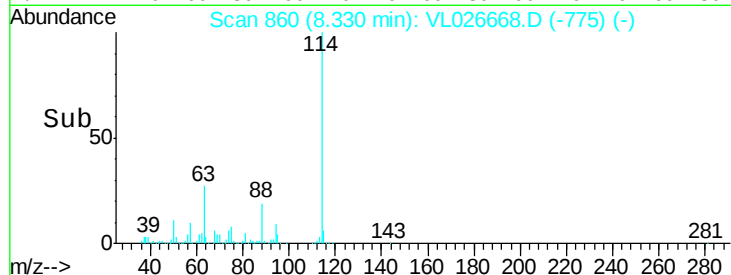
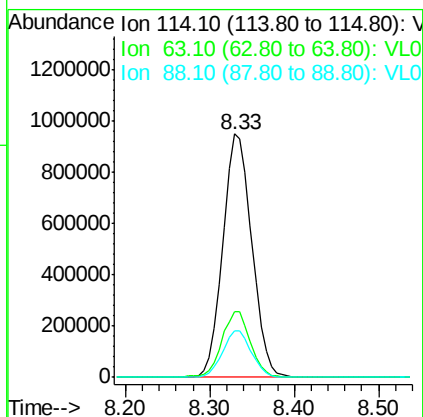
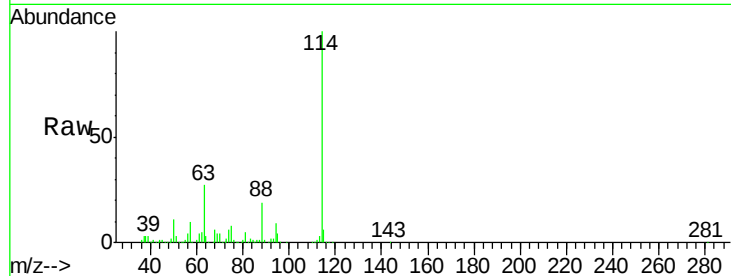




#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 8.33 min Scan# 860  
 Delta R.T. 0.02 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

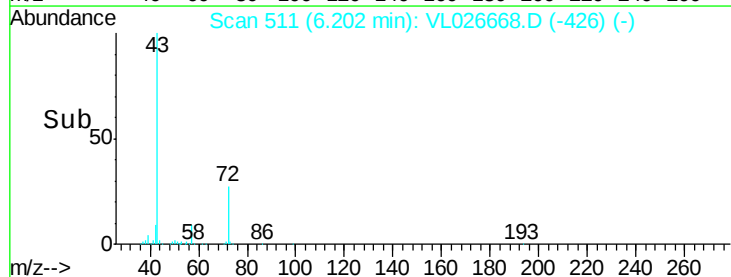
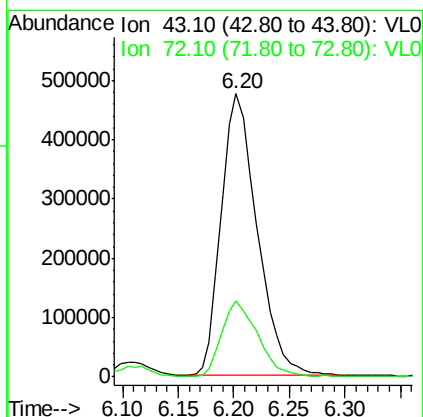
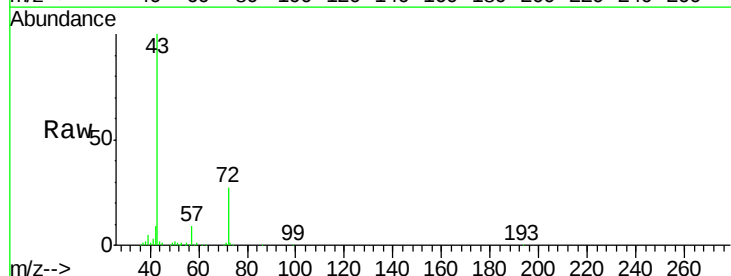
Instrument :  
 MSVOA\_L  
 ClientSampleId :

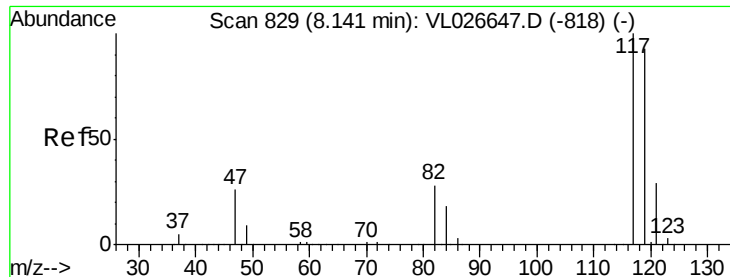
Tot Ion:114 Resp: 2237376  
 Ion Ratio Lower Upper  
 114 100  
 63 27.0 21.7 32.5  
 88 19.1 15.2 22.8



#34  
 2-Butanone  
 Concen: 8.94 ppbv  
 RT: 6.20 min Scan# 511  
 Delta R.T. 0.02 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

Tgt Ion: 43 Resp: 1065934  
 Ion Ratio Lower Upper  
 43 100  
 72 27.5 20.9 31.3





#35

Carbon Tetrachloride

Concen: 10.49 ppbv

RT: 8.17 min Scan# 833

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampled :

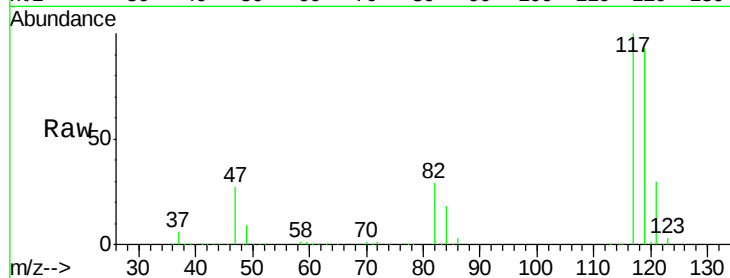
Tot Ion:117 Resp: 2063915

Ion Ratio Lower Upper

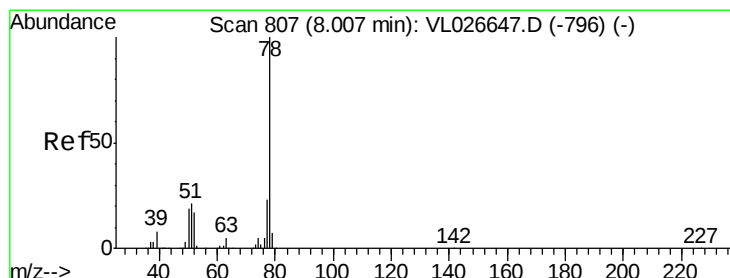
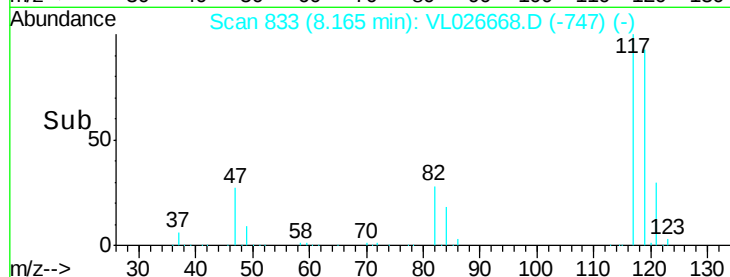
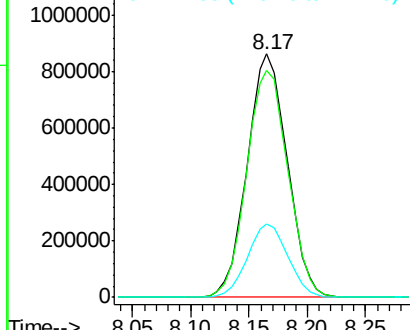
117 100

119 93.4 74.7 112.1

121 30.3 23.1 34.7



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: 9.47 ppbv

RT: 8.02 min Scan# 810

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

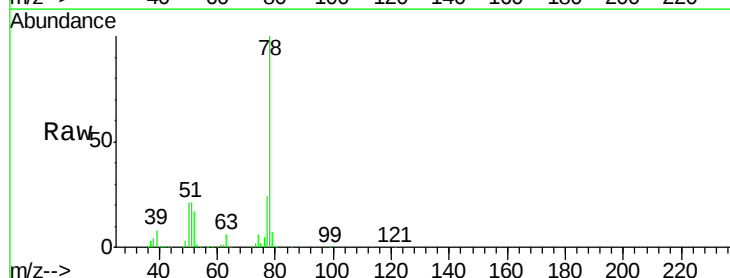
Tgt Ion: 78 Resp: 2180887

Ion Ratio Lower Upper

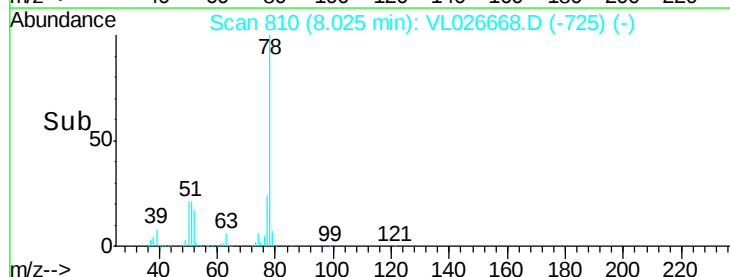
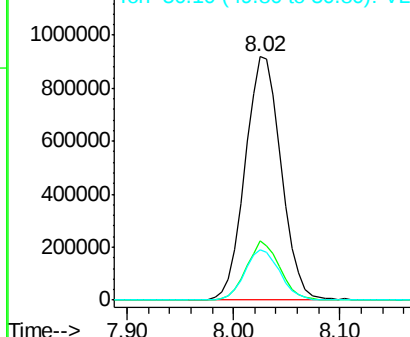
78 100

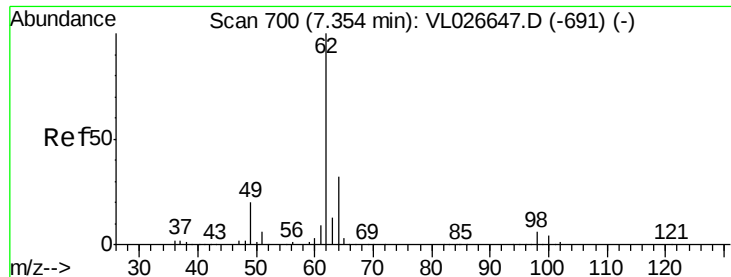
77 24.1 18.5 27.7

50 20.5 15.4 23.2



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: 10.48 ppbv

RT: 7.38 min Scan# 704

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

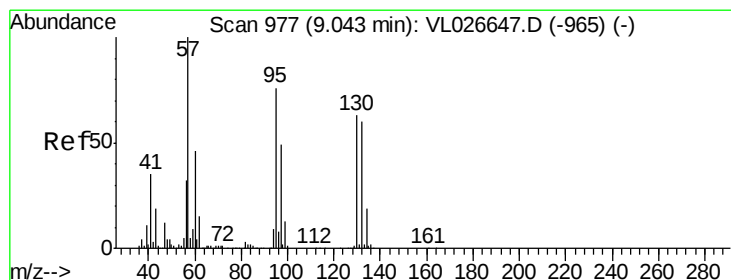
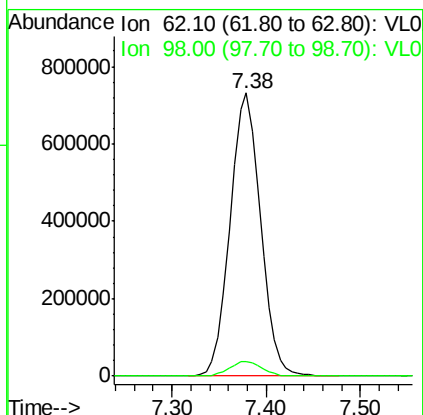
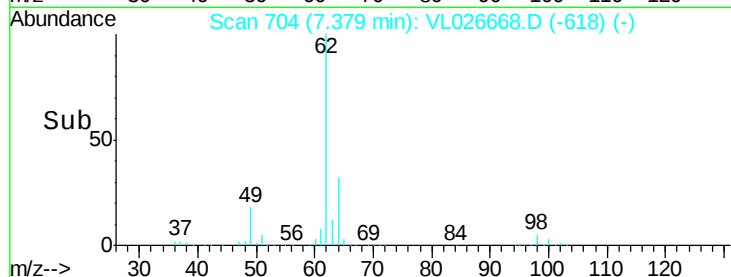
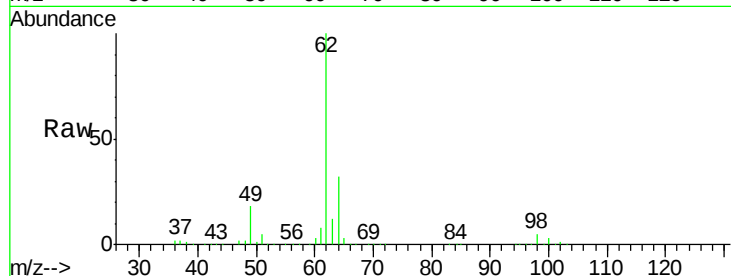
ClientSampleId :

Tot Ion: 62 Resp: 1650241

Ion Ratio Lower Upper

62 100

98 5.6 4.8 7.2



#38

Trichloroethene

Concen: 8.75 ppbv

RT: 9.07 min Scan# 981

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion:130 Resp: 899516

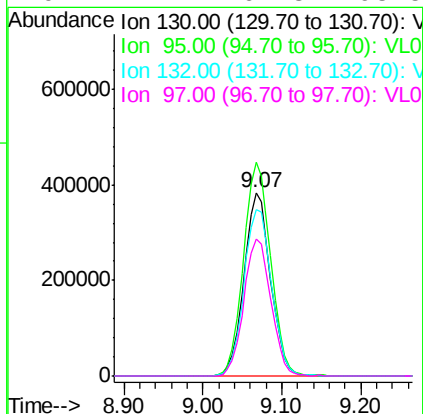
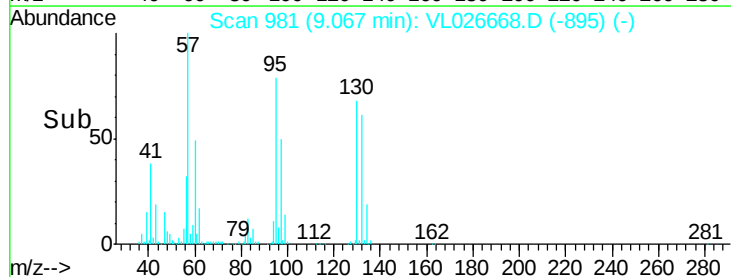
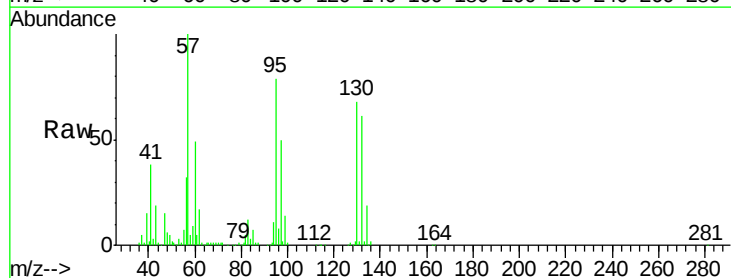
Ion Ratio Lower Upper

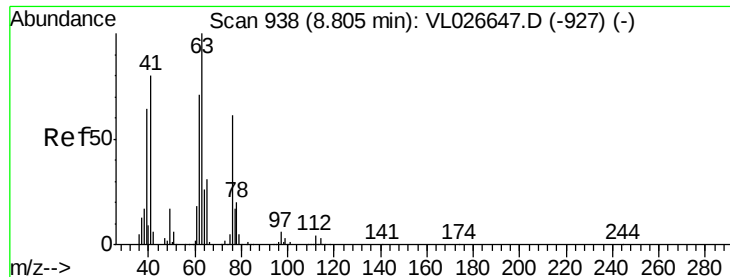
130 100

95 116.4 96.6 145.0

132 90.3 76.2 114.4

97 74.4 62.3 93.5





#39

1,2-Dichloropropane

Concen: 9.31 ppbv

RT: 8.83 min Scan# 942

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

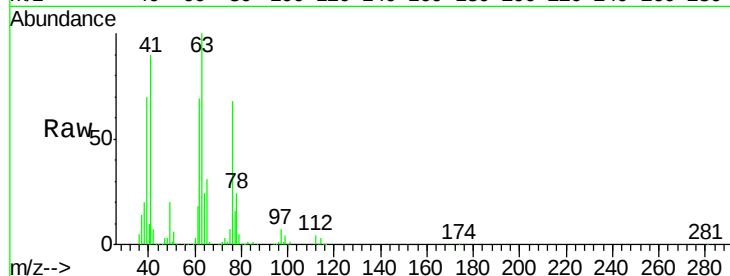
Tot Ion: 63 Resp: 741129

Ion Ratio Lower Upper

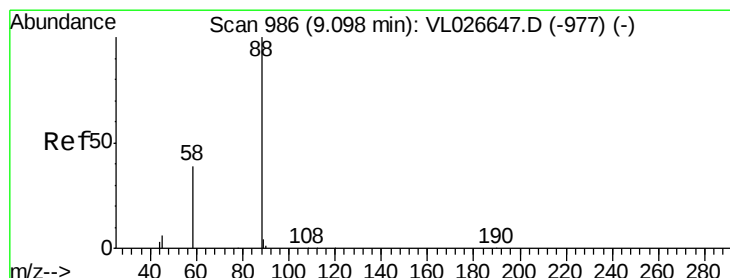
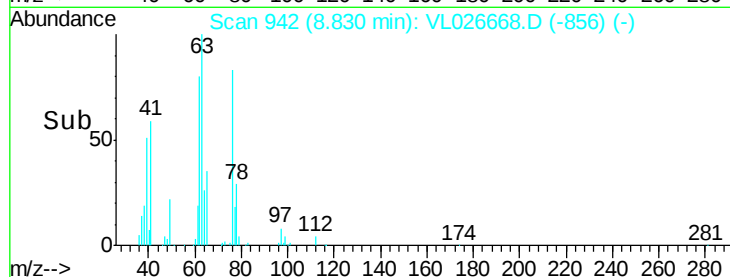
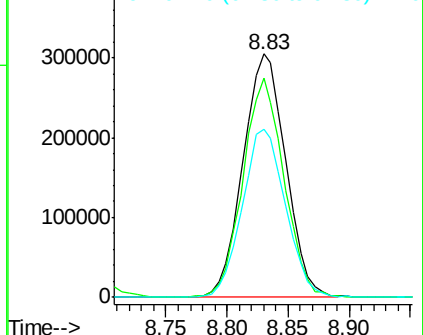
63 100

41 89.8 64.1 96.1

62 69.2 56.6 84.8



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: 11.85 ppbv

RT: 9.12 min Scan# 989

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion: 88 Resp: 216758

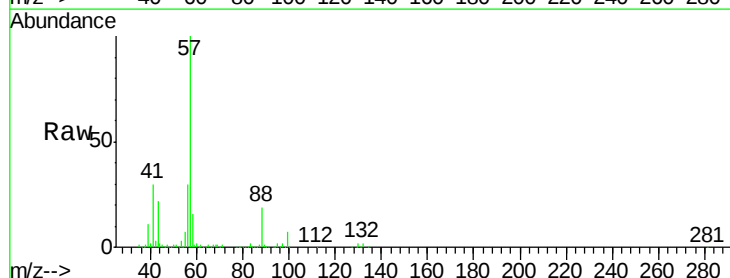
Ion Ratio Lower Upper

88 100

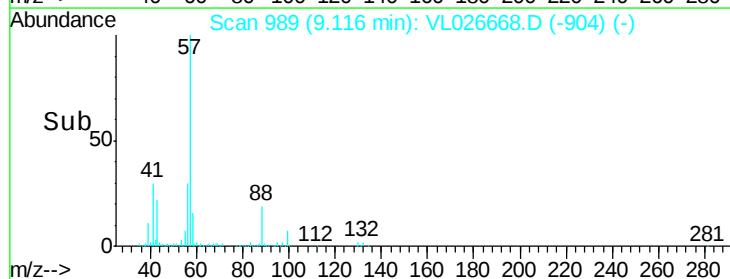
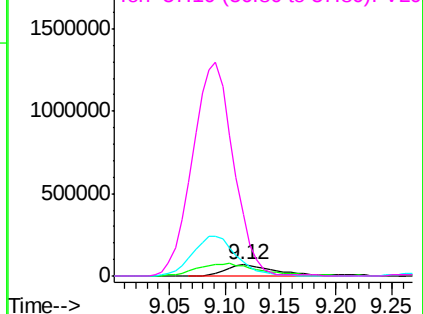
58 140.8 109.4 164.2

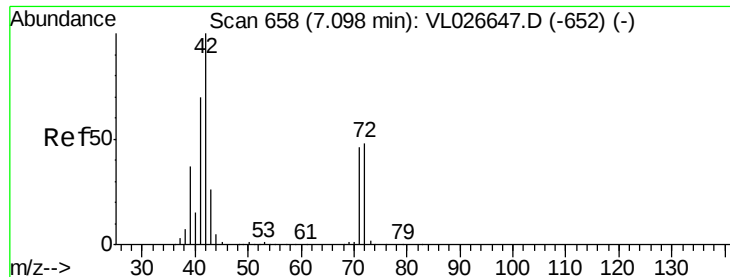
43 314.7 238.2 357.2

57 1540.7 1148.3 1722.5



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: 9.25 ppbv

RT: 7.12 min Scan# 662

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

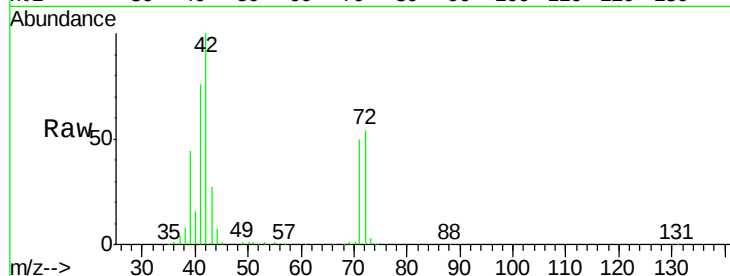
Tot Ion: 42 Resp: 546512

Ion Ratio Lower Upper

42 100

72 53.7 40.6 60.8

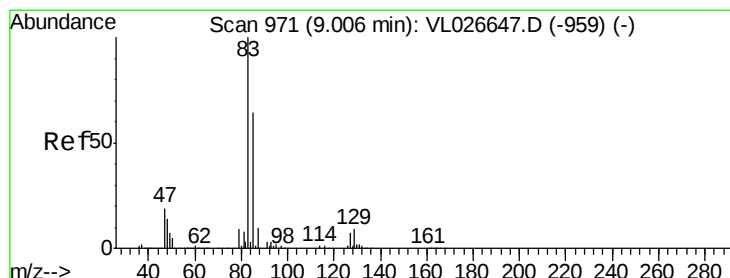
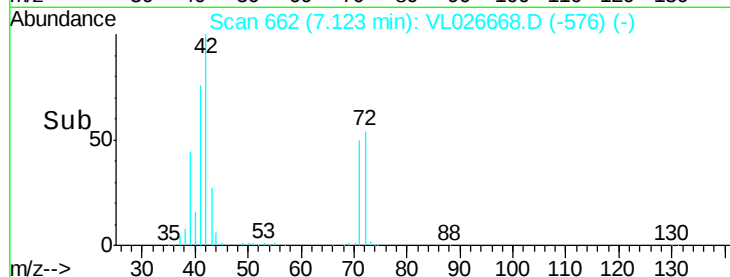
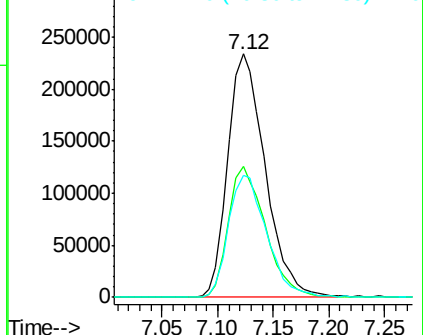
71 51.2 38.4 57.6



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.58 ppbv

RT: 9.03 min Scan# 975

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

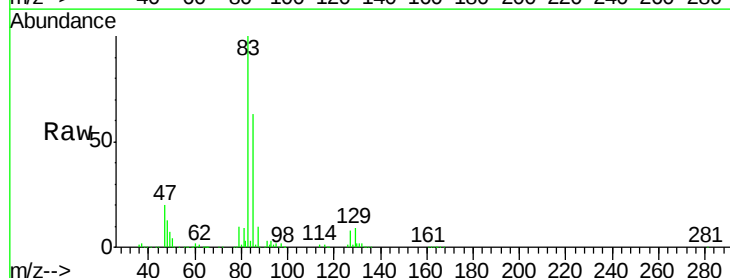
Tgt Ion: 83 Resp: 2151047

Ion Ratio Lower Upper

83 100

85 62.8 50.9 76.3

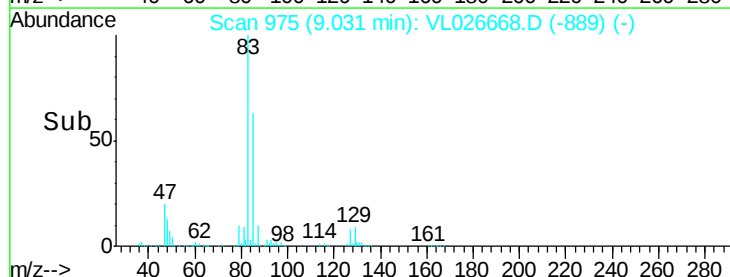
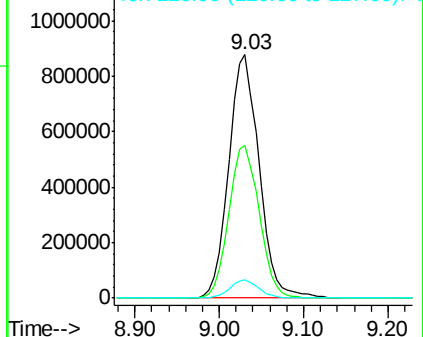
127 7.6 5.5 8.3

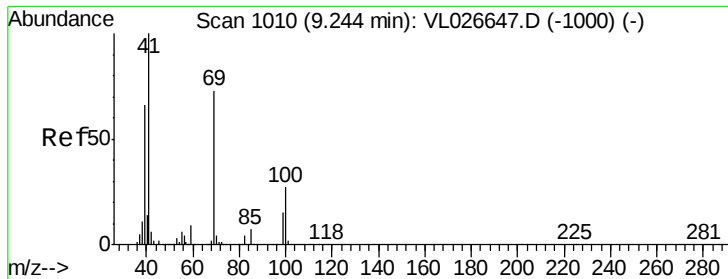


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

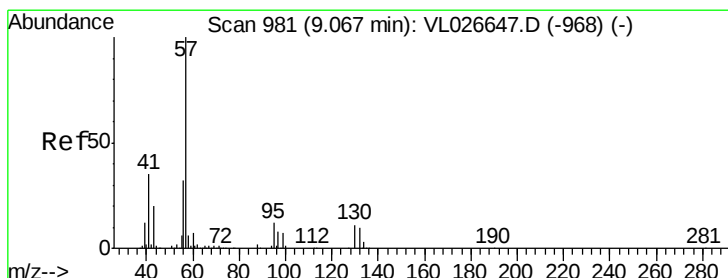
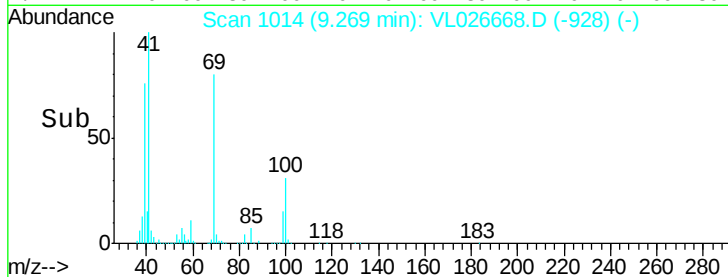
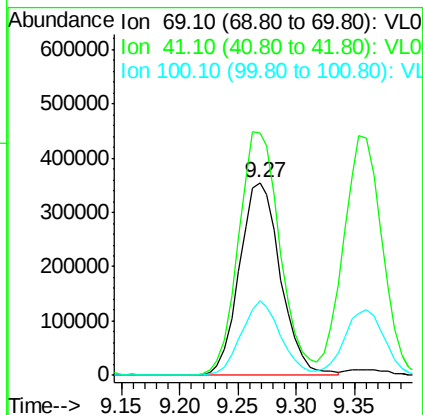
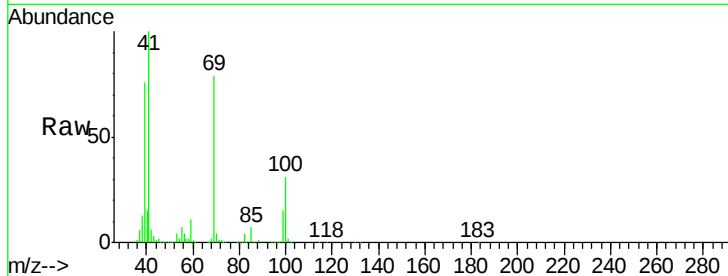




#43  
Methvl Methacrilate  
Concen: 10.39 ppbv  
RT: 9.27 min Scan# 1014  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

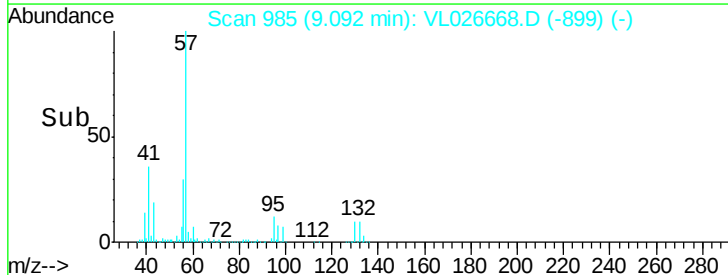
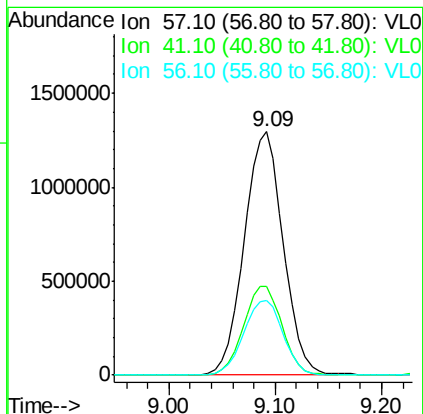
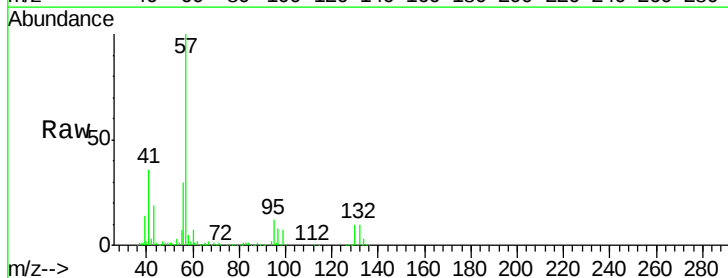
Instrument :  
MSVOA\_L  
ClientSampleId :

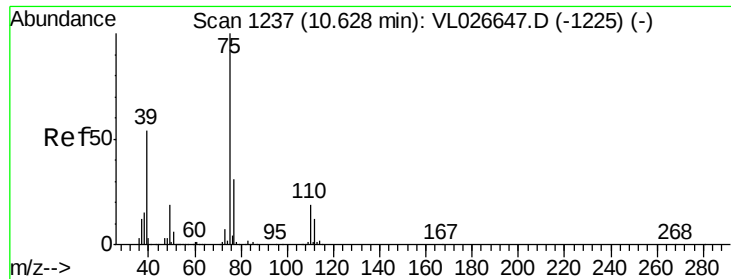
Tot Ion: 69 Resp: 873773  
Ion Ratio Lower Upper  
69 100  
41 126.6 106.1 159.1  
100 36.8 29.0 43.4



#44  
2,2,4-Trimethylpentane  
Concen: 8.94 ppbv  
RT: 9.09 min Scan# 985  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Tgt Ion: 57 Resp: 3321505  
Ion Ratio Lower Upper  
57 100  
41 36.0 26.9 40.3  
56 31.2 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 11.70 ppbv

RT: 10.65 min Scan# 1241

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

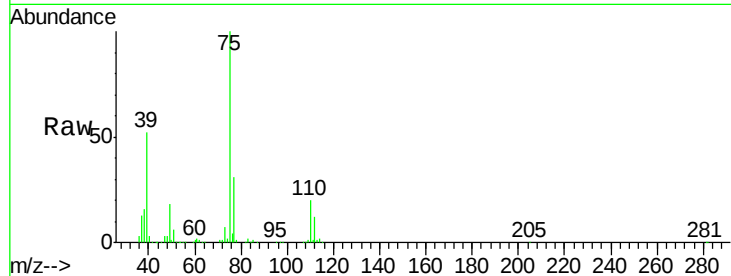
ClientSampleId :

Tot Ion: 75 Resp: 1592735

Ion Ratio Lower Upper

75 100

77 30.7 24.6 37.0



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

10.65

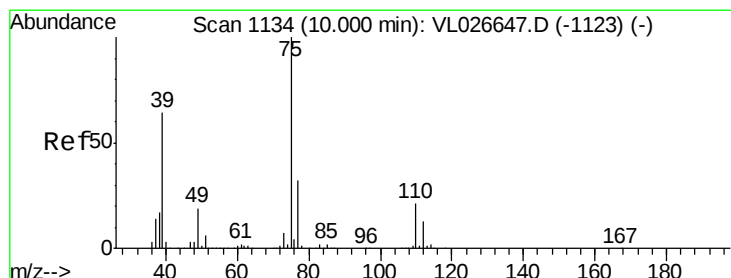
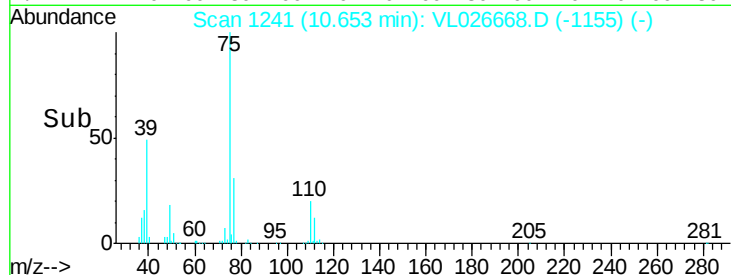
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.03 ppbv

RT: 10.02 min Scan# 1138

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

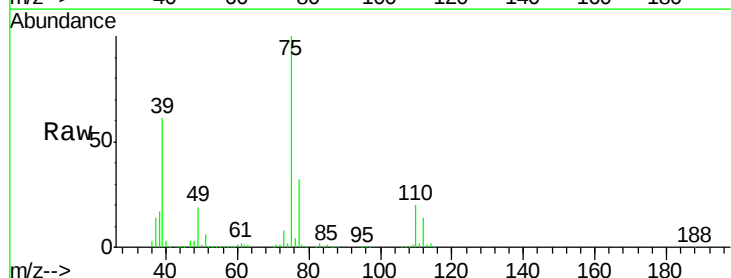
Tgt Ion: 75 Resp: 1708557

Ion Ratio Lower Upper

75 100

39 61.1 51.2 76.8

77 31.9 25.9 38.9



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

800000

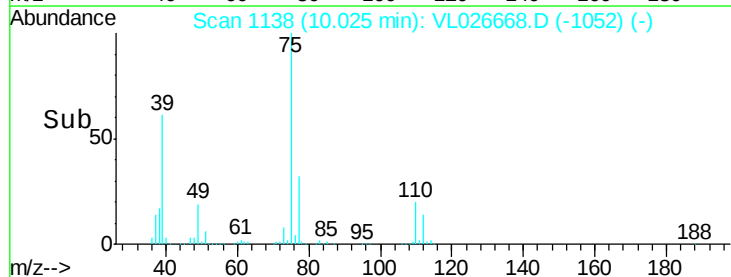
600000

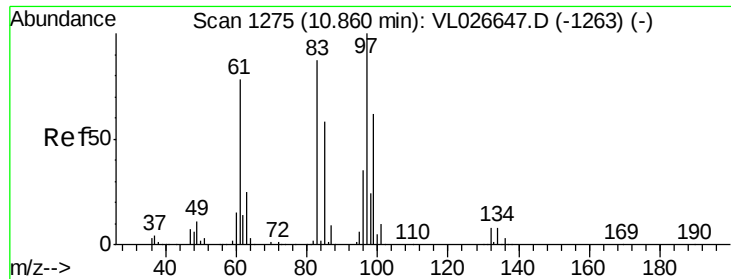
400000

200000

0

Time-->



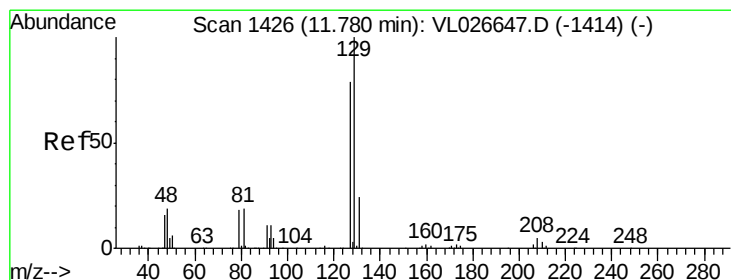
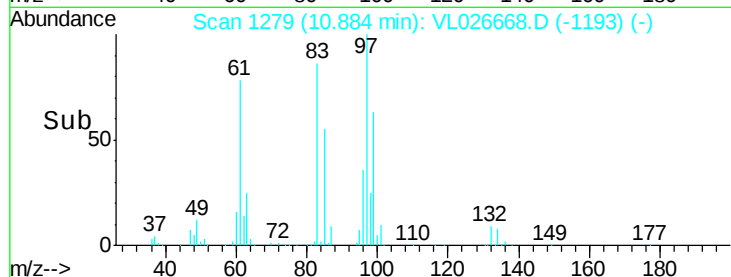
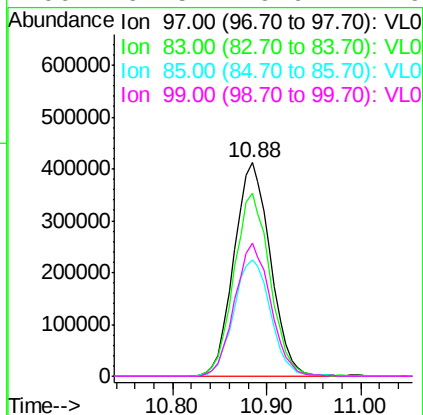
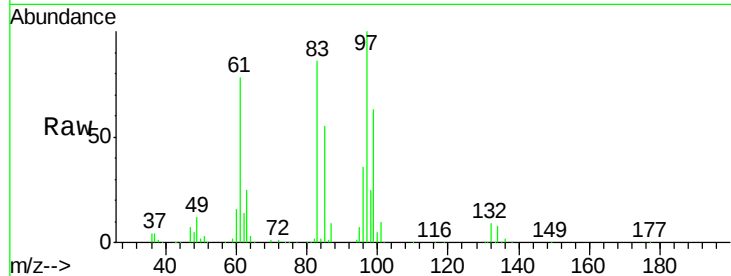


#47  
 1,1,2-Trichloroethane  
 Concen: 9.83 ppbv  
 RT: 10.88 min Scan# 1279  
 Delta R.T. 0.02 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 97 Resp: 1115490

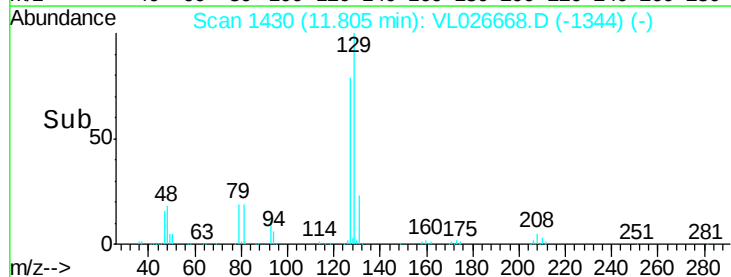
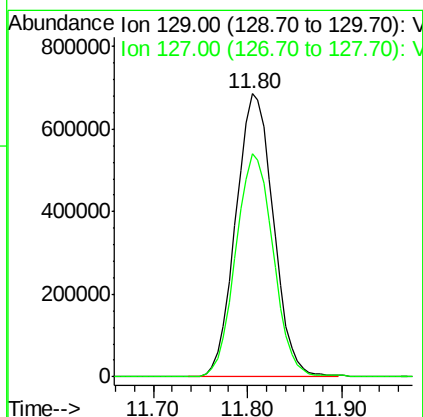
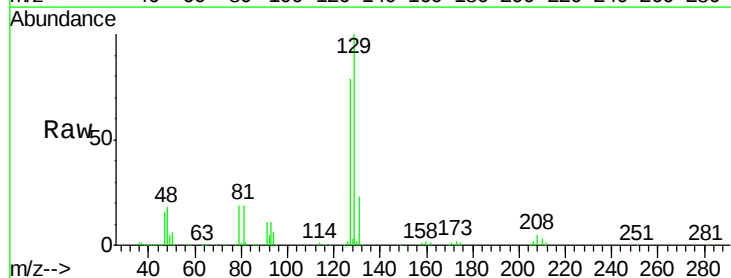
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 85.7  | 69.5  | 104.3 |
| 85  | 54.7  | 46.4  | 69.6  |
| 99  | 62.5  | 49.9  | 74.9  |

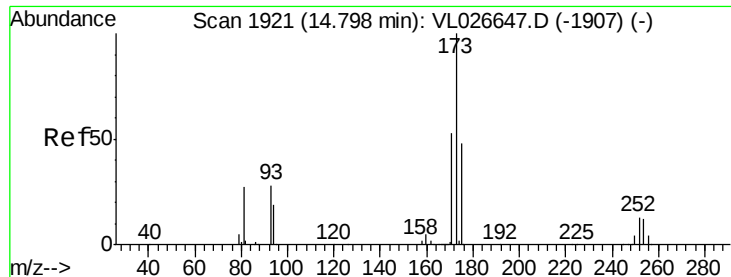


#48  
 Dibromochloromethane  
 Concen: 11.19 ppbv  
 RT: 11.80 min Scan# 1430  
 Delta R.T. 0.02 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

Tgt Ion: 129 Resp: 1904940

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 79.1  | 39.5  | 118.5 |





#49

Bromoform

Concen: 11.48 ppbv

RT: 14.82 min Scan# 1925

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

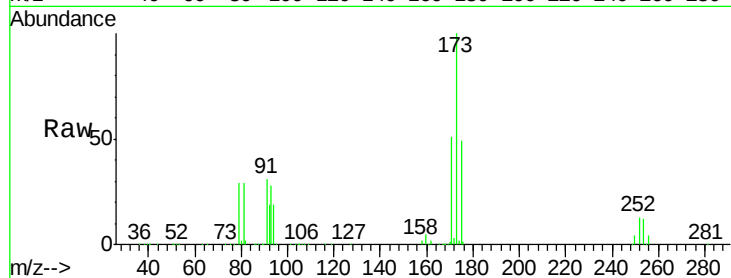
Tot Ion:173 Resp: 1594650

Ion Ratio Lower Upper

173 100

175 48.6 38.6 58.0

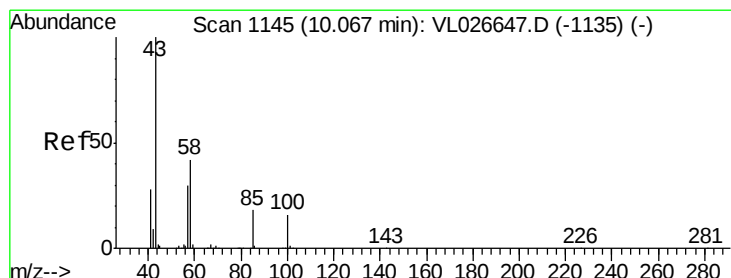
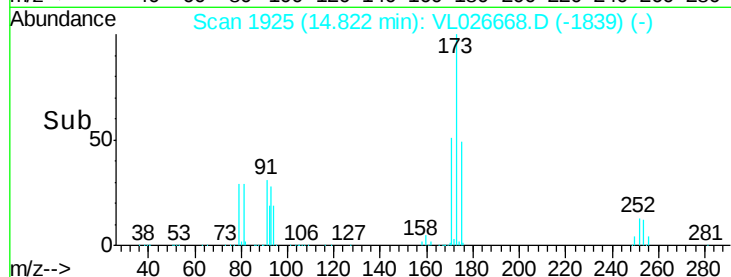
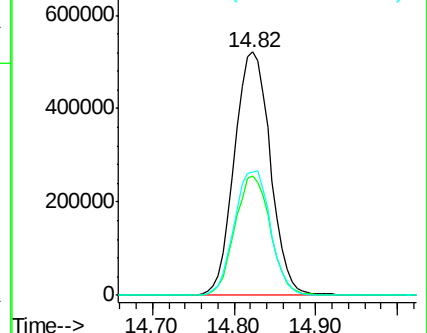
171 51.9 41.5 62.3



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: 9.67 ppbv

RT: 10.09 min Scan# 1149

Delta R.T. 0.02 min

Lab File: VL026668.D

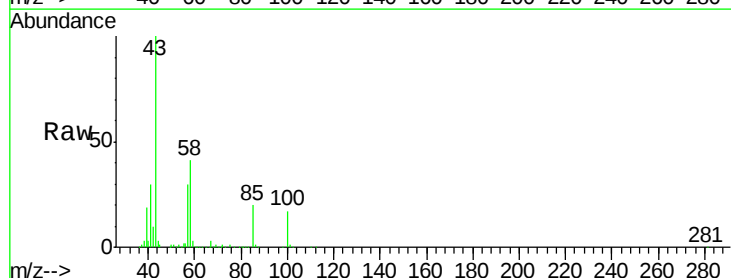
Acq: 12 Jan 2016 9:09

Tgt Ion: 43 Resp: 1621980

Ion Ratio Lower Upper

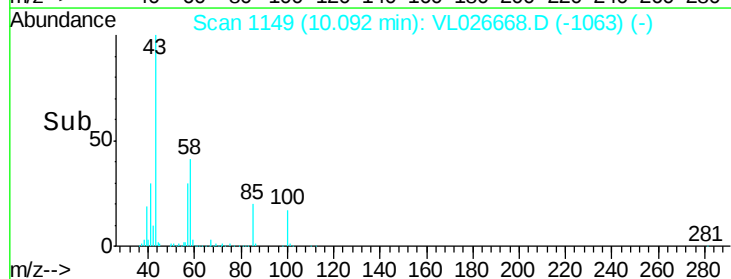
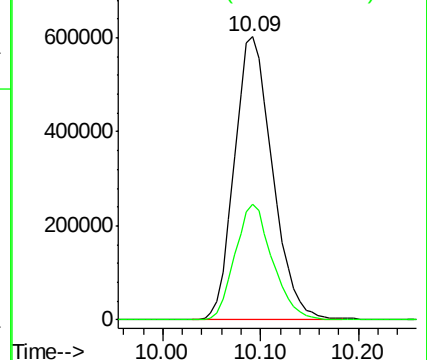
43 100

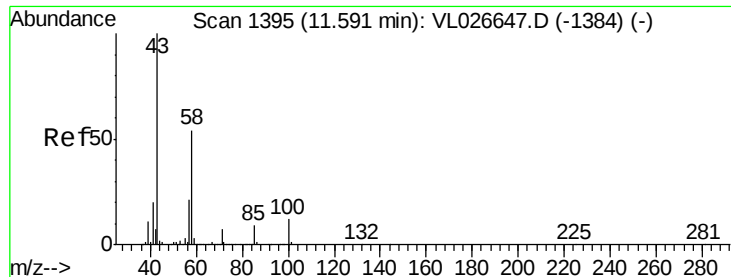
58 40.8 32.4 48.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.61 ppbv

RT: 11.62 min Scan# 1399

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

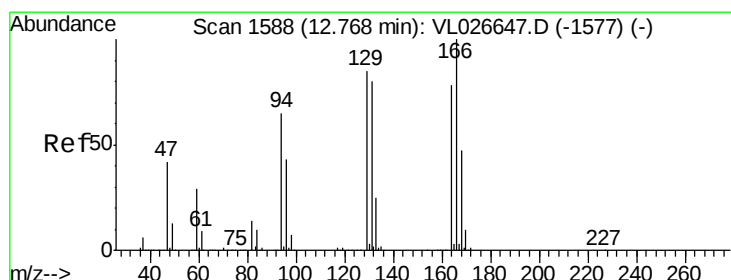
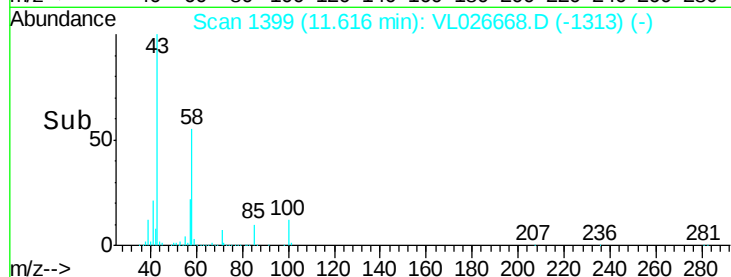
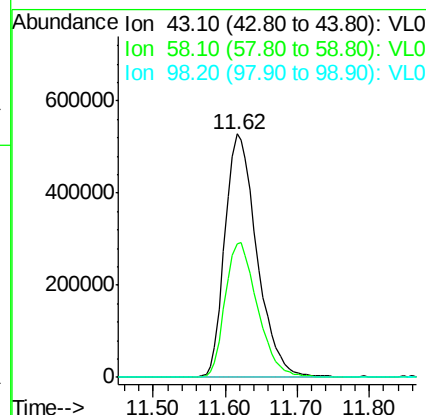
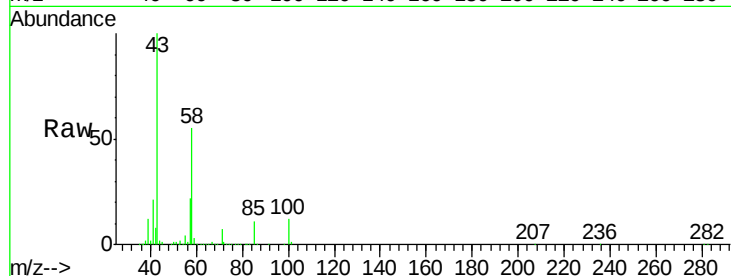
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 43 Resp: 1638331

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 56.2  | 44.9  | 67.3  |
| 98  | 0.4   | 0.2   | 0.2#  |



#52

Tetrachloroethene

Concen: 9.28 ppbv

RT: 12.80 min Scan# 1593

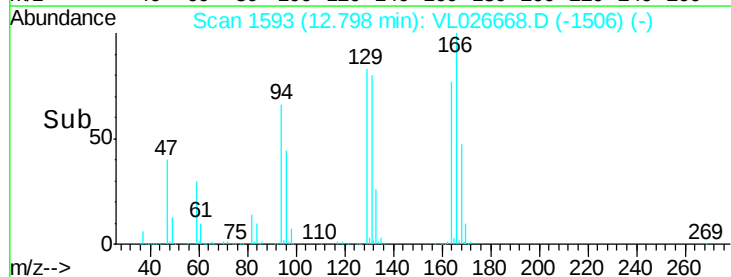
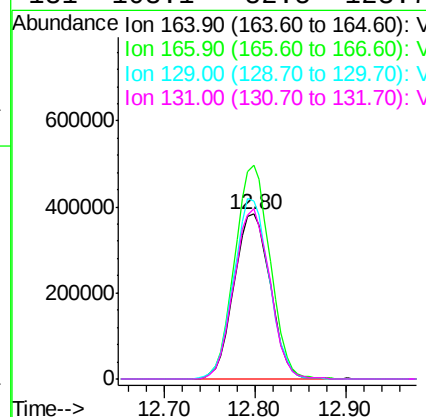
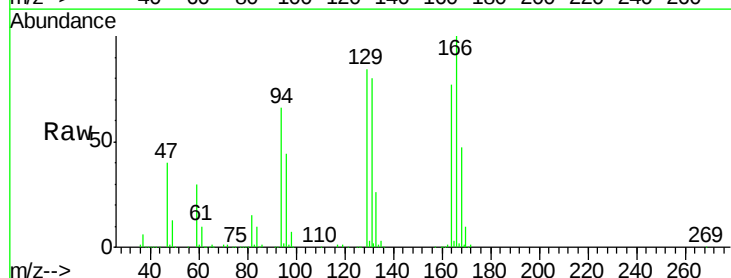
Delta R.T. 0.03 min

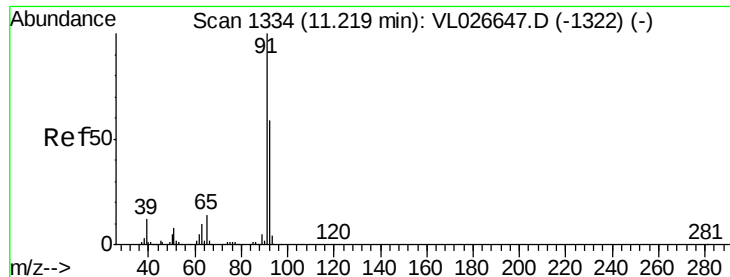
Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion: 164 Resp: 1068611

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 129.4 | 102.5 | 153.7 |
| 129 | 108.0 | 87.0  | 130.6 |
| 131 | 103.1 | 82.5  | 123.7 |





#53

Toluene

Concen: 10.10 ppbv

RT: 11.24 min Scan# 1338

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

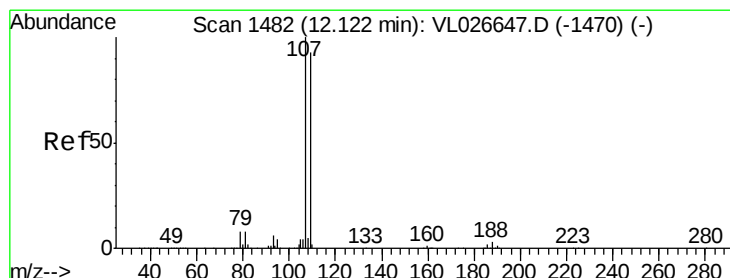
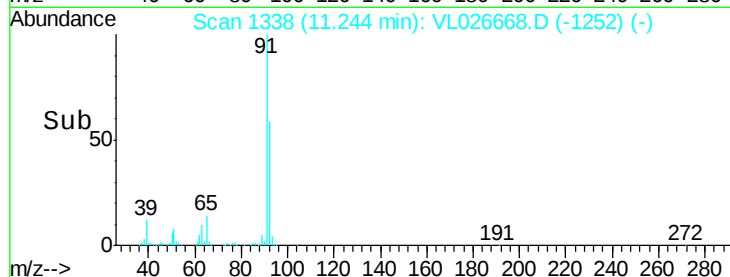
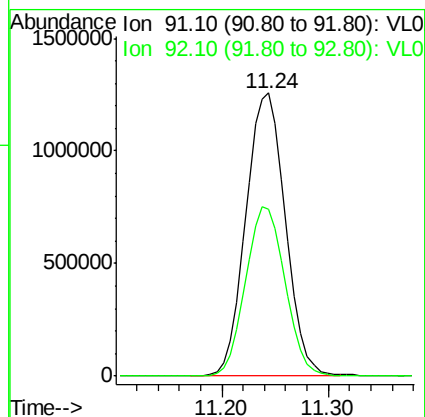
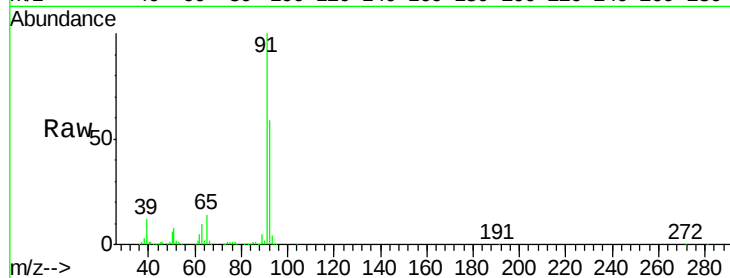
ClientSampleId :

Tot Ion: 91 Resp: 3279416

Ion Ratio Lower Upper

91 100

92 60.1 48.2 72.4



#54

1,2-Dibromoethane

Concen: 10.14 ppbv

RT: 12.15 min Scan# 1486

Delta R.T. 0.02 min

Lab File: VL026668.D

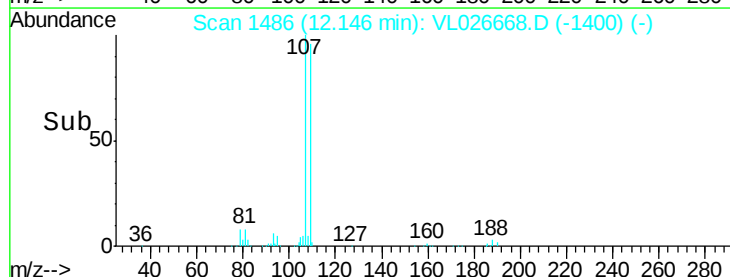
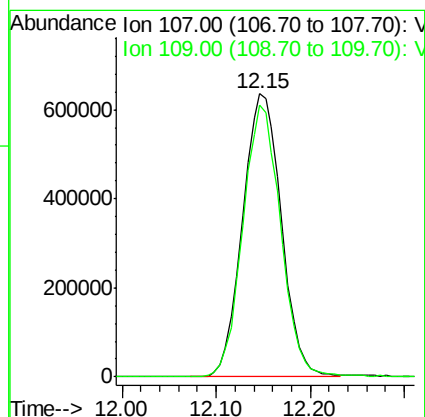
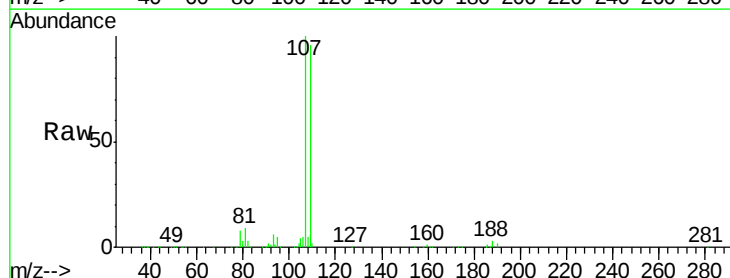
Acq: 12 Jan 2016 9:09

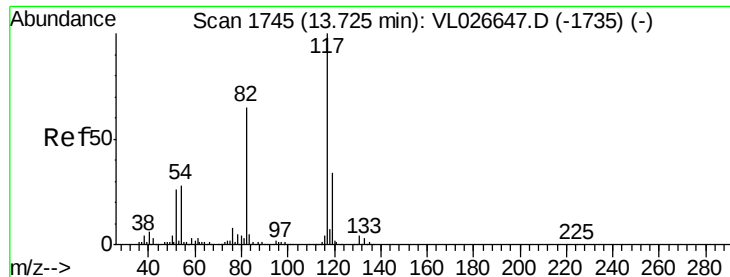
Tgt Ion: 107 Resp: 1820884

Ion Ratio Lower Upper

107 100

109 95.9 74.1 111.1

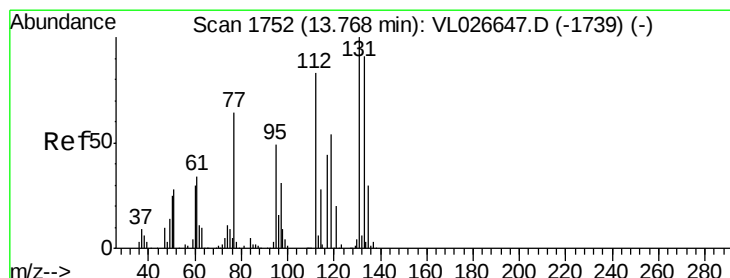
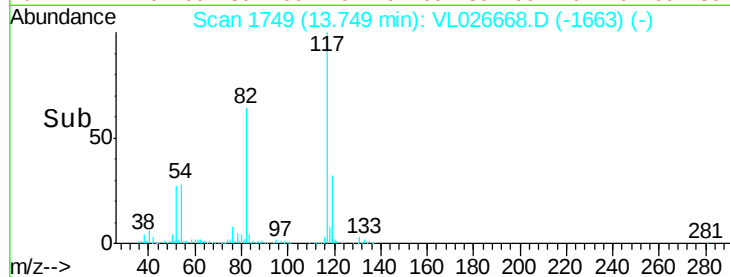
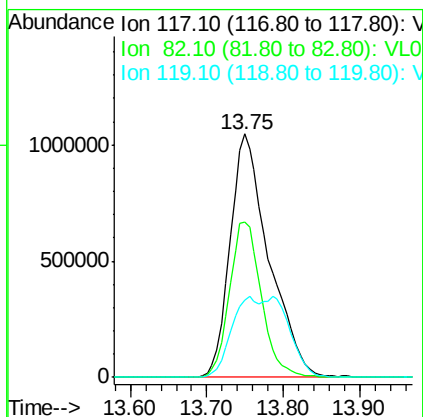
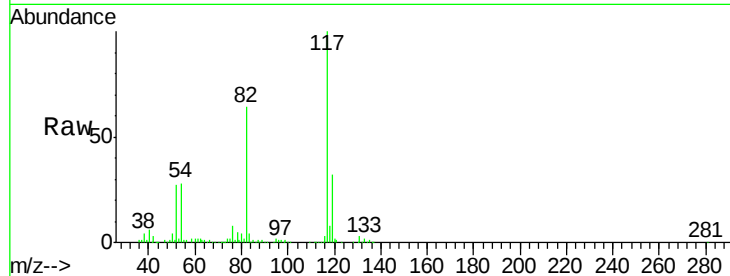




#55  
Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 13.75 min Scan# 1749  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

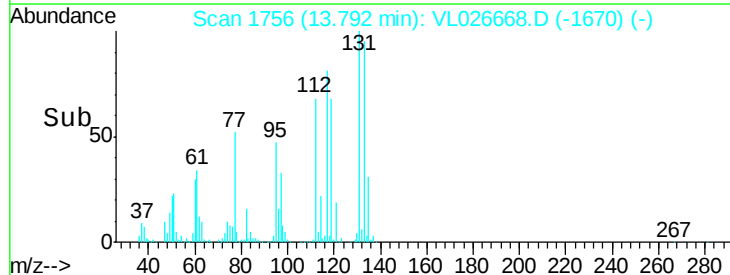
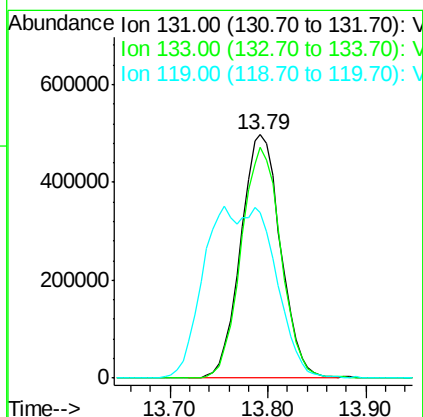
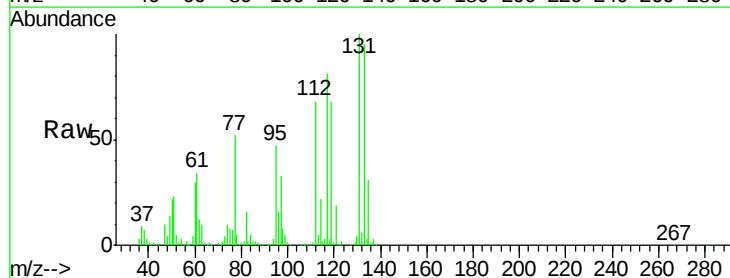
Instrument :  
MSVOA\_L  
ClientSampleId :

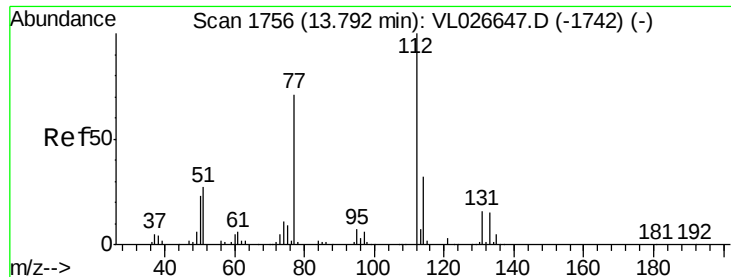
Tot Ion:117 Resp: 3674195  
Ion Ratio Lower Upper  
117 100  
82 53.0 49.7 74.5  
119 47.8 43.8 65.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.33 ppbv  
RT: 13.79 min Scan# 1756  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Tgt Ion:131 Resp: 1408172  
Ion Ratio Lower Upper  
131 100  
133 94.8 76.2 114.4  
119 124.8 104.3 156.5





#57

Chlorobenzene

Concen: 7.58 ppbv

RT: 13.82 min Scan# 1760

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

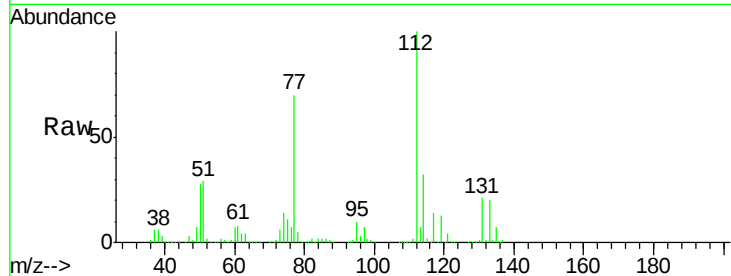
Tot Ion:112 Resp: 2867029

Ion Ratio Lower Upper

112 100

77 70.0 56.9 85.3

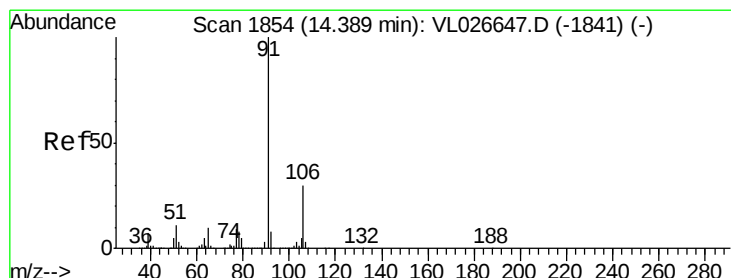
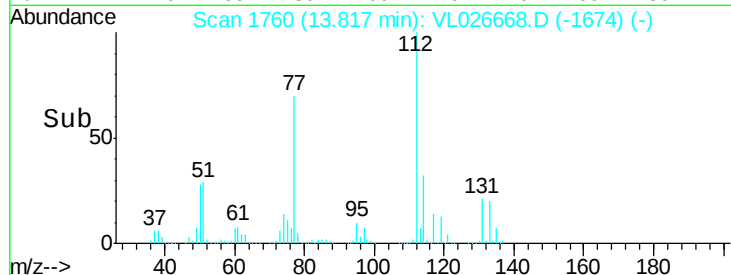
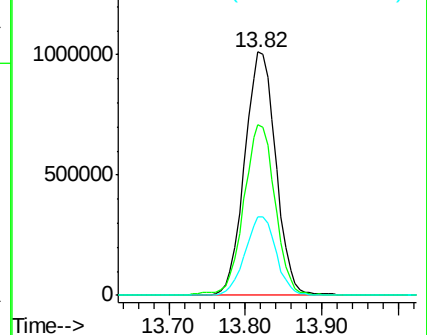
114 32.3 28.8 35.2



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: 8.35 ppbv

RT: 14.42 min Scan# 1859

Delta R.T. 0.03 min

Lab File: VL026668.D

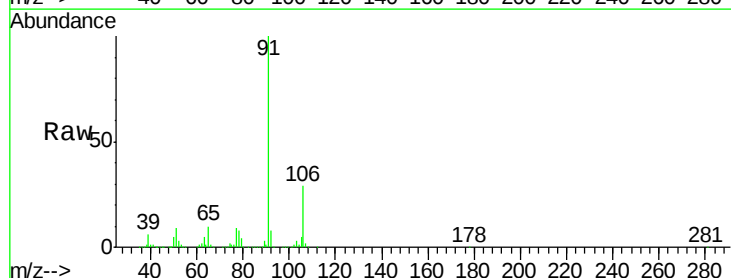
Acq: 12 Jan 2016 9:09

Tgt Ion: 91 Resp: 5480785

Ion Ratio Lower Upper

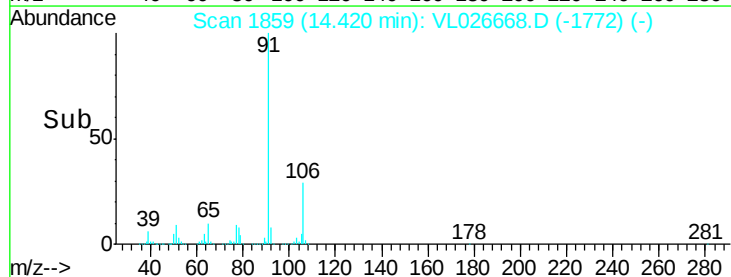
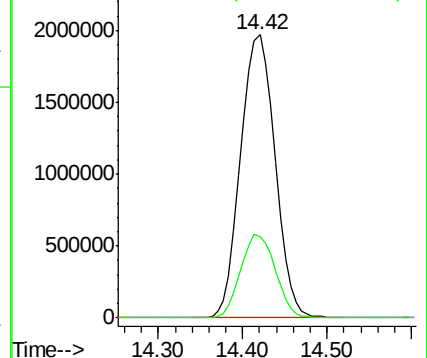
91 100

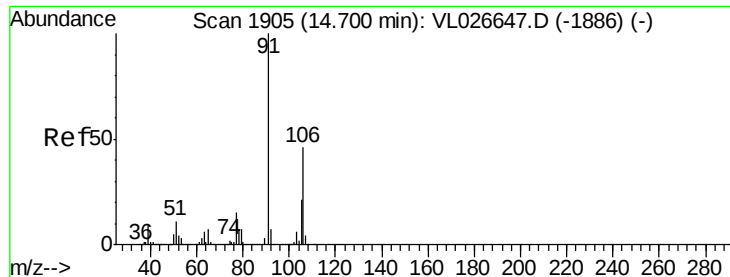
106 28.8 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 15.69 ppbv

RT: 14.72 min Scan# 1909

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

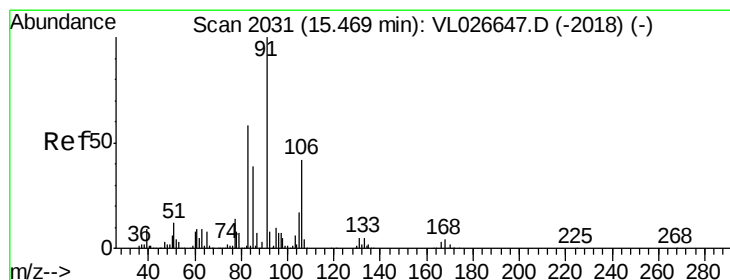
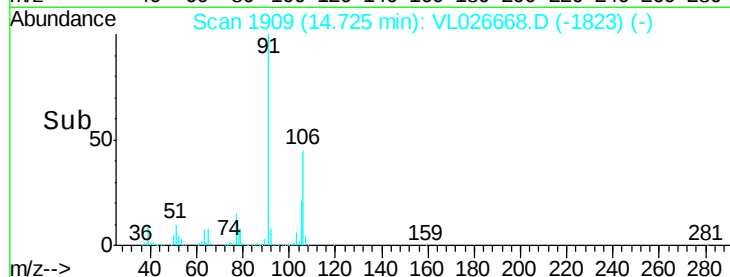
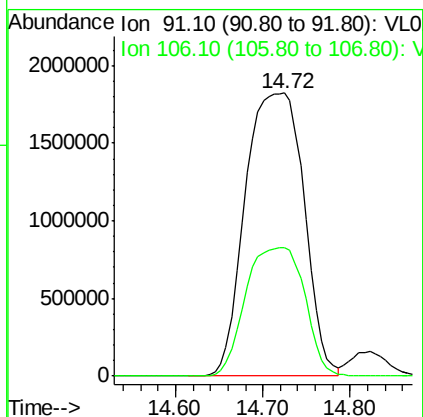
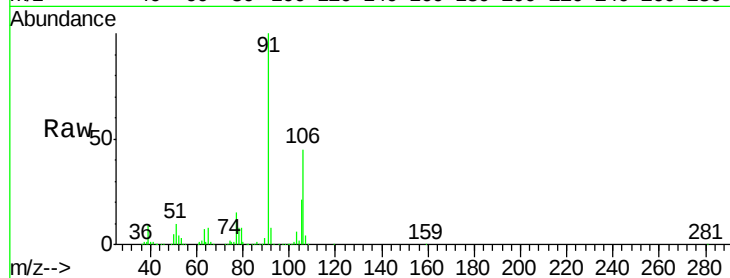
ClientSampled :

Tot Ion: 91 Resp: 8486335

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#



#60

o-Xylene

Concen: 7.61 ppbv

RT: 15.50 min Scan# 2036

Delta R.T. 0.03 min

Lab File: VL026668.D

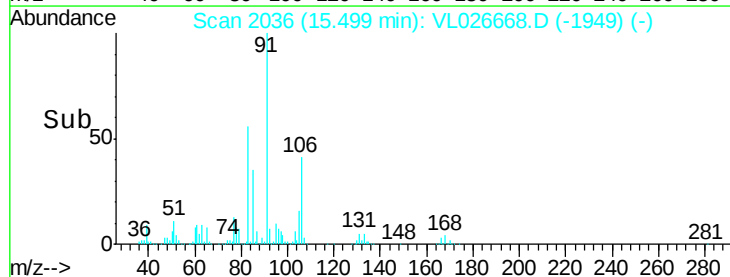
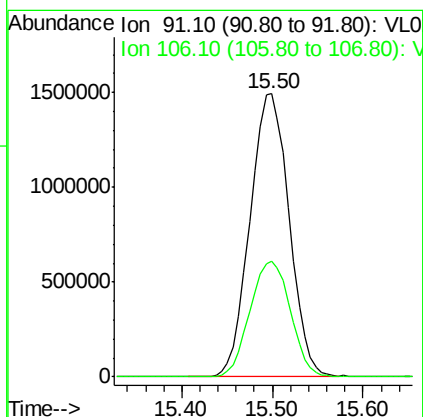
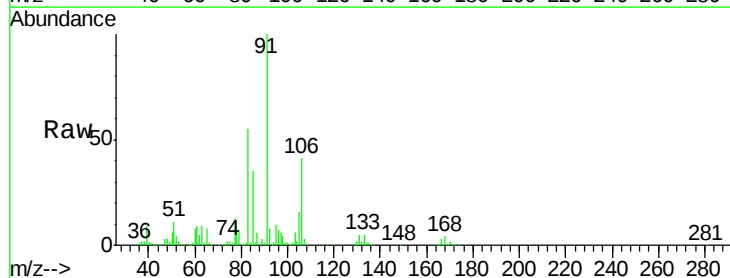
Acq: 12 Jan 2016 9:09

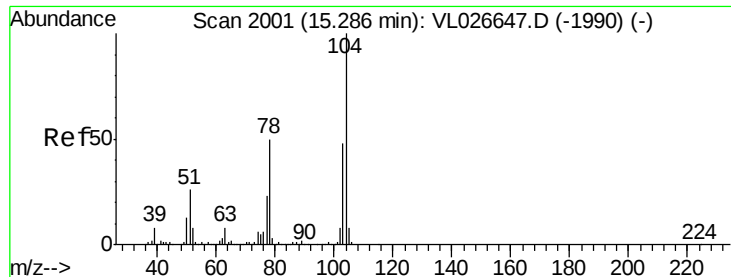
Tgt Ion: 91 Resp: 4445382

Ion Ratio Lower Upper

91 100

106 42.6 21.5 64.5

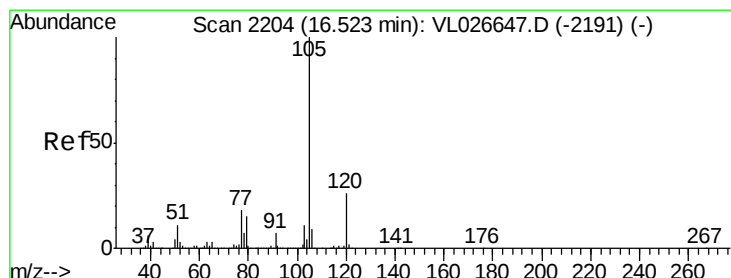
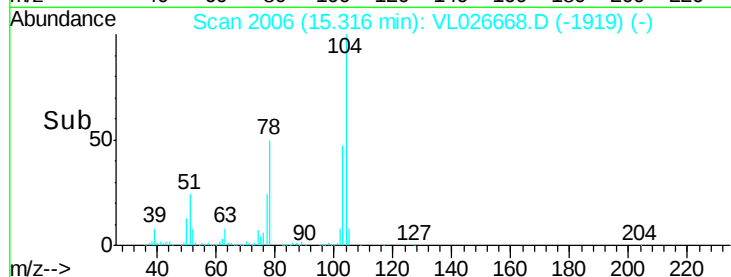
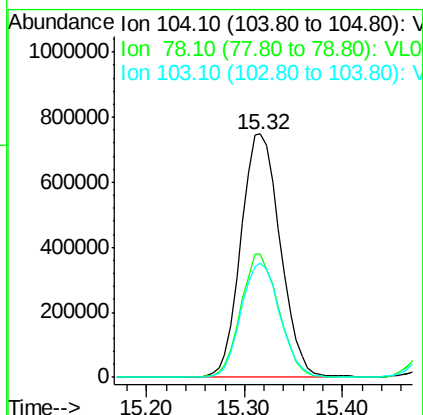
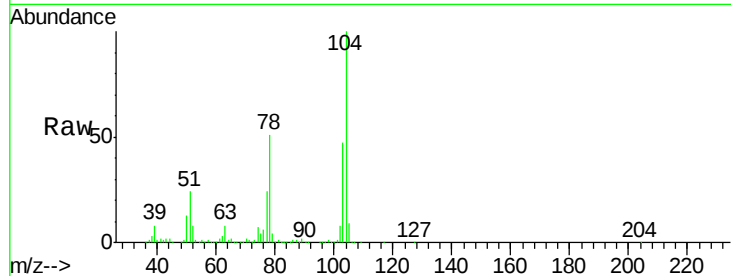




#61  
Stvrene  
Concen: 9.15 ppbv  
RT: 15.32 min Scan# 2006  
Delta R.T. 0.03 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

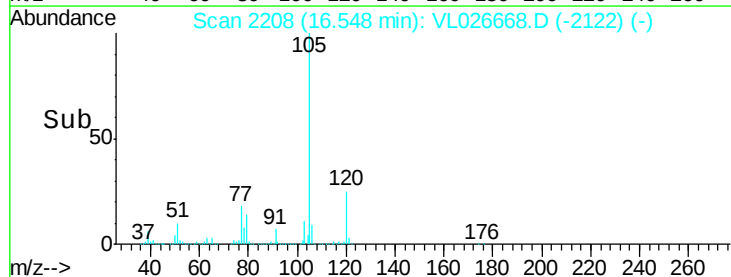
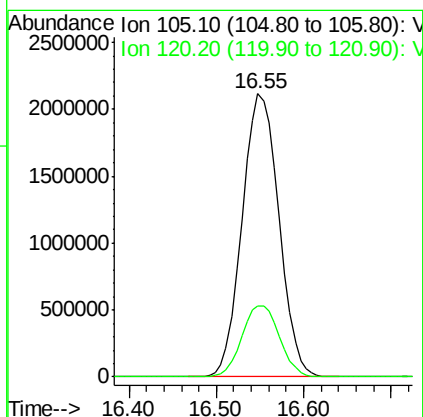
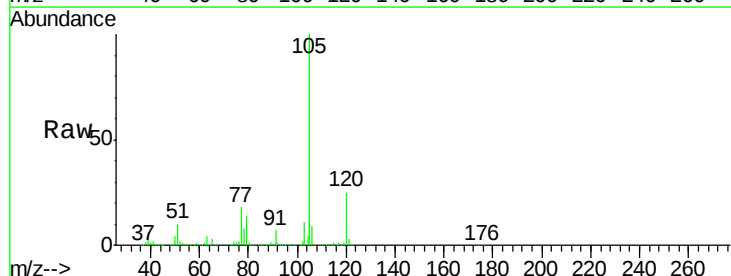
Instrument :  
MSVOA\_L  
ClientSampleId :

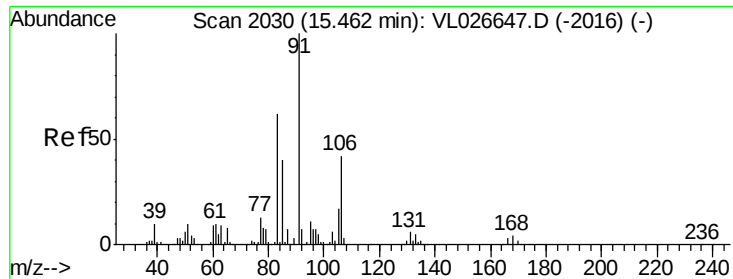
Tot Ion:104 Resp: 2089370  
Ion Ratio Lower Upper  
104 100  
78 48.9 39.6 59.4  
103 46.5 37.8 56.6



#62  
Isopropylbenzene  
Concen: 8.00 ppbv  
RT: 16.55 min Scan# 2208  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Tgt Ion:105 Resp: 6188001  
Ion Ratio Lower Upper  
105 100  
120 25.8 20.3 30.5

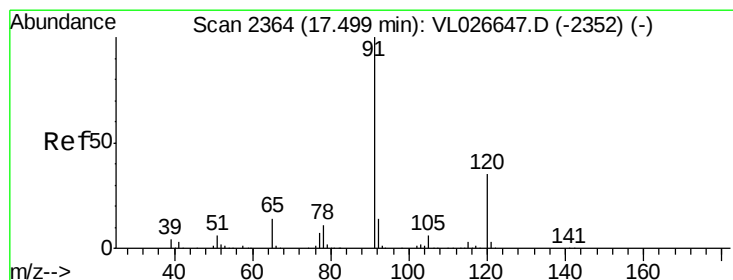
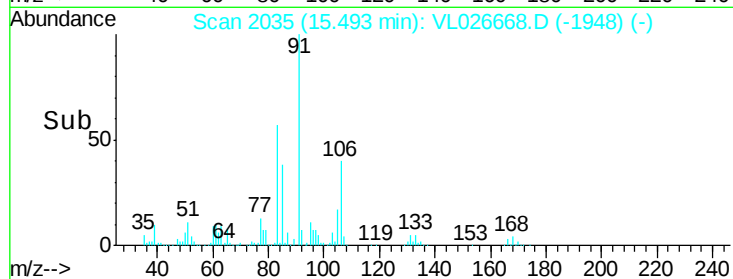
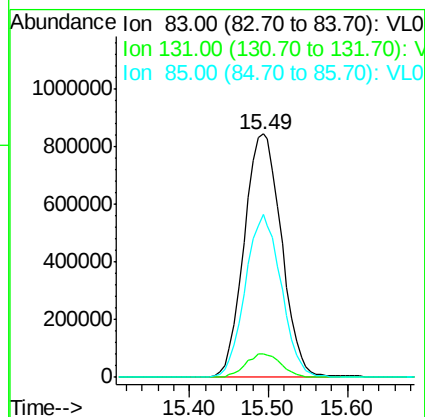
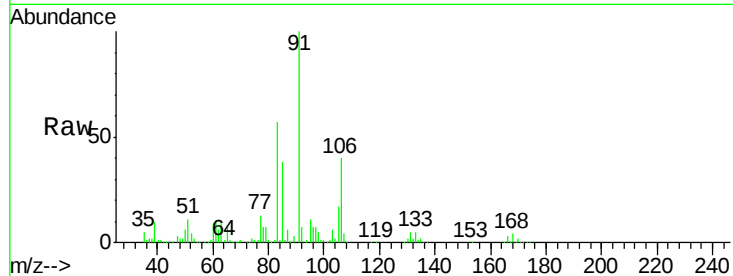




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 6.38 ppbv  
 RT: 15.49 min Scan# 2035  
 Delta R.T. 0.03 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

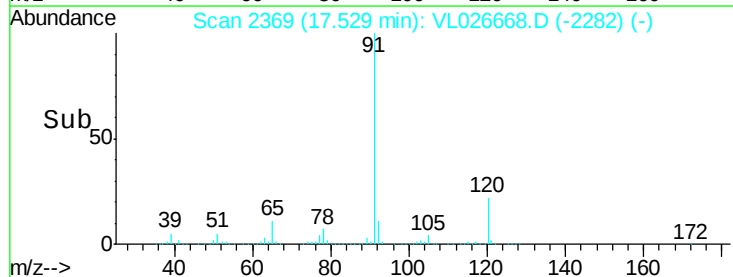
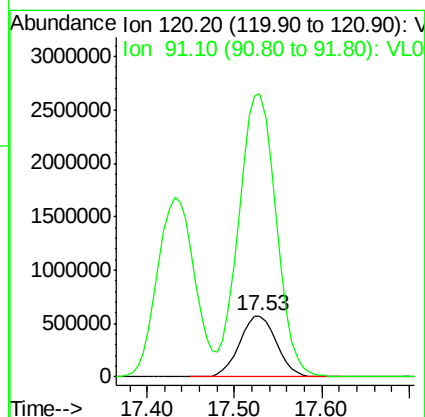
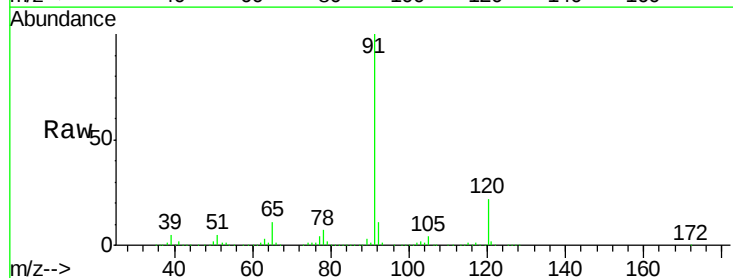
Instrument :  
 MSVOA\_L  
 ClientSampled :

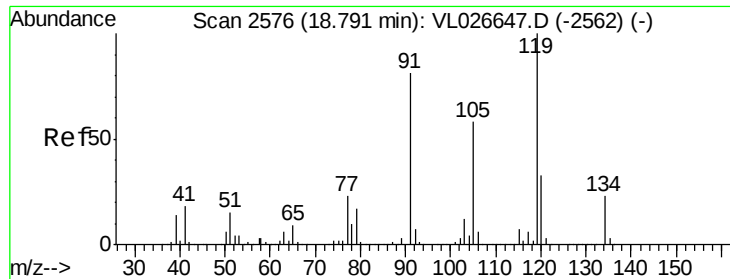
Tot Ion: 83 Resp: 2782510  
 Ion Ratio Lower Upper  
 83 100  
 131 9.3 4.5 13.4  
 85 64.9 32.6 97.7



#64  
 n-propylbenzene  
 Concen: 8.10 ppbv  
 RT: 17.53 min Scan# 2369  
 Delta R.T. 0.03 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

Tgt Ion:120 Resp: 1680945  
 Ion Ratio Lower Upper  
 120 100  
 91 460.5 375.8 563.6

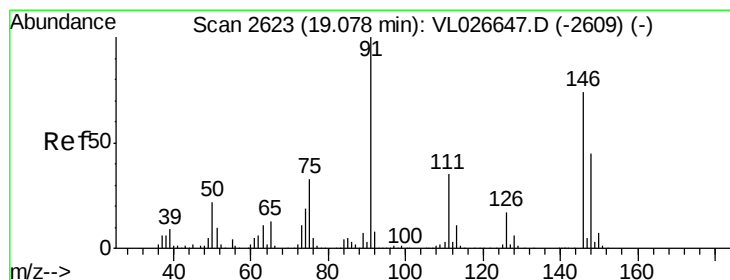
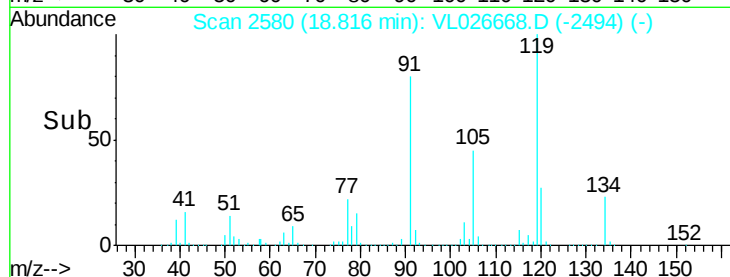
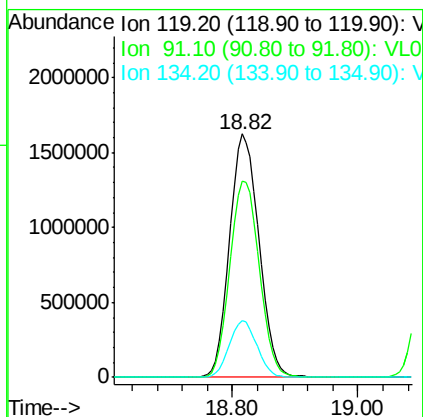
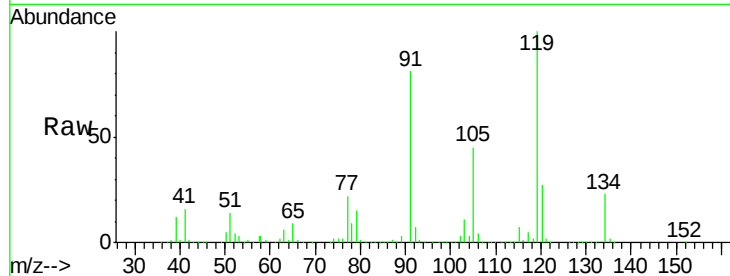




#65  
tert-Butylbenzene  
Concen: 7.45 ppbv  
RT: 18.82 min Scan# 2580  
Delta R.T. 0.02 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

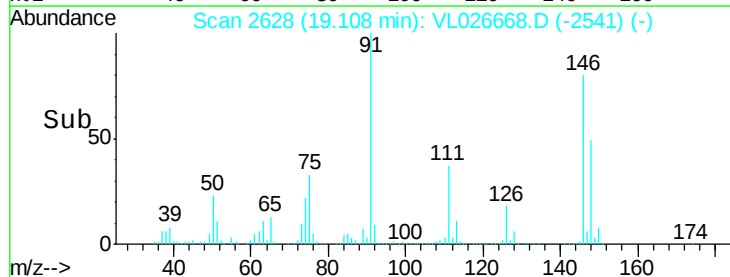
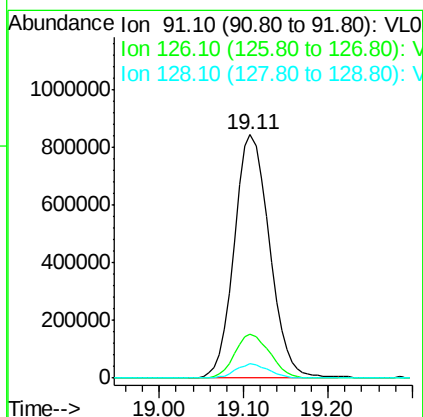
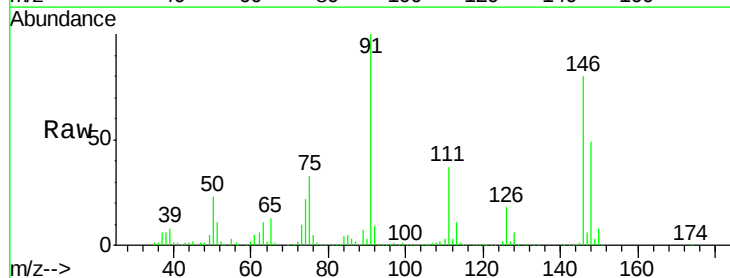
Instrument :  
MSVOA\_L  
ClientSampled :

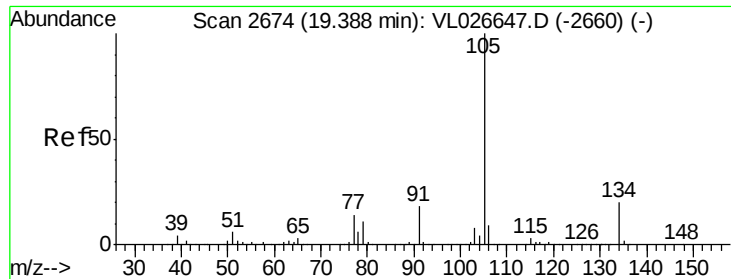
Tot Ion:119 Resp: 5280334  
Ion Ratio Lower Upper  
119 100  
91 80.8 64.8 97.2  
134 21.9 17.4 26.0



#66  
Benzyl Chloride  
Concen: 9.43 ppbv  
RT: 19.11 min Scan# 2628  
Delta R.T. 0.03 min  
Lab File: VL026668.D  
Acq: 12 Jan 2016 9:09

Tgt Ion: 91 Resp: 2389466  
Ion Ratio Lower Upper  
91 100  
126 18.1 14.2 21.2  
128 5.7 4.5 6.7





#67

sec-Butylbenzene

Concen: 7.86 ppbv

RT: 19.42 min Scan# 2679

Delta R.T. 0.03 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

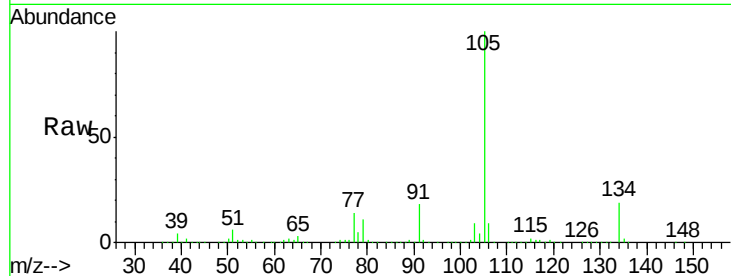
ClientSampleId :

Tot Ion:105 Resp: 8264495

Ion Ratio Lower Upper

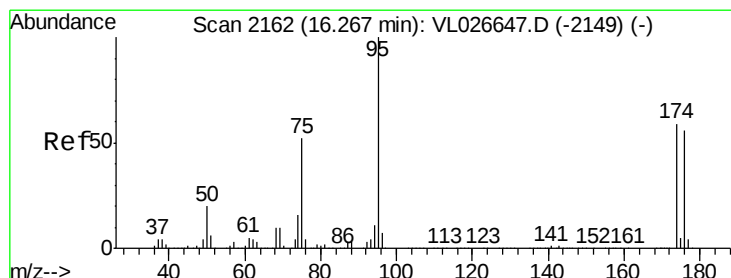
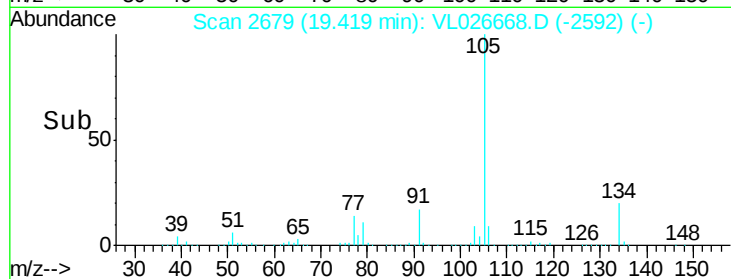
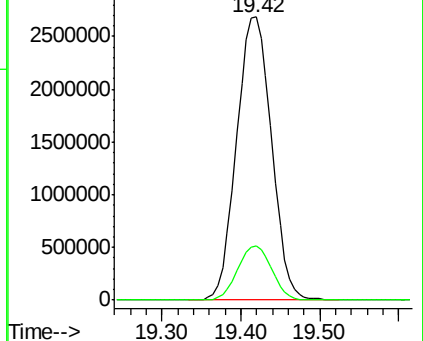
105 100

134 18.9 14.9 22.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.32 ppbv

RT: 16.30 min Scan# 2167

Delta R.T. 0.03 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

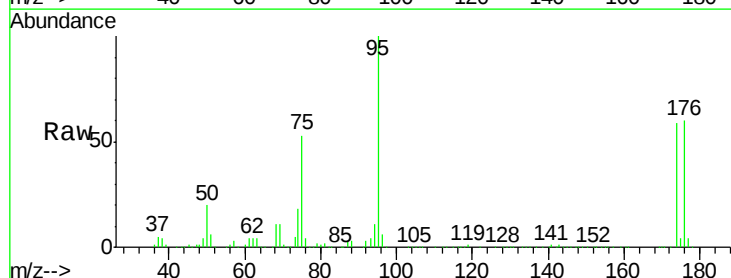
Tgt Ion: 95 Resp: 2436304

Ion Ratio Lower Upper

95 100

174 61.0 47.8 71.8

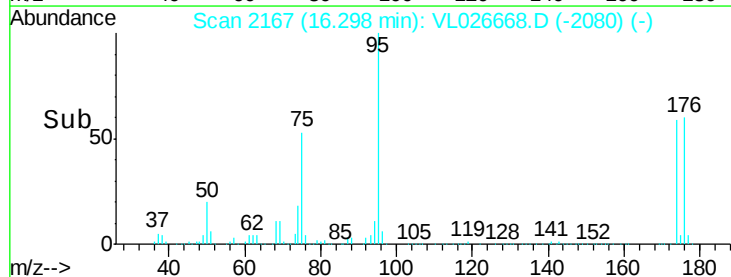
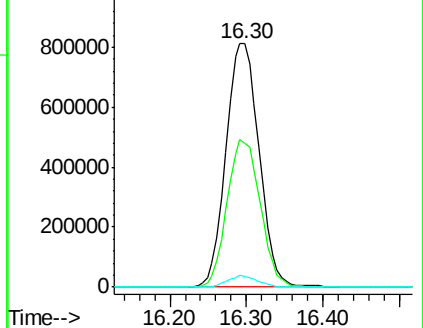
175 4.4 3.6 5.4

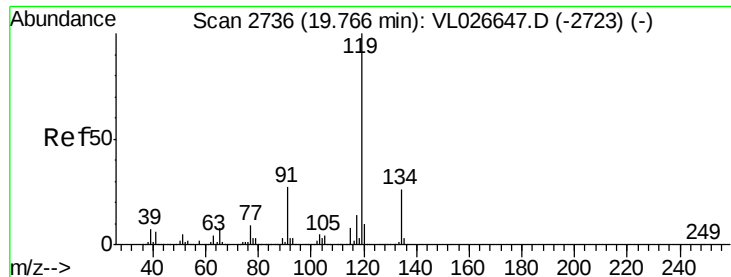


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

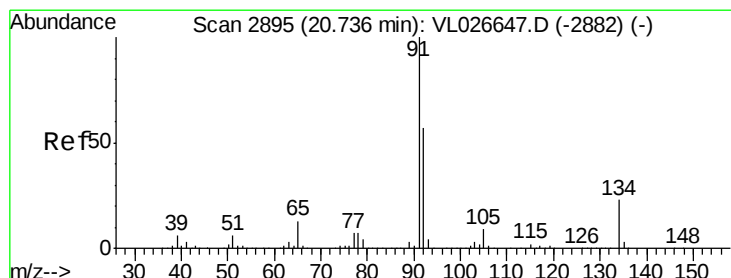
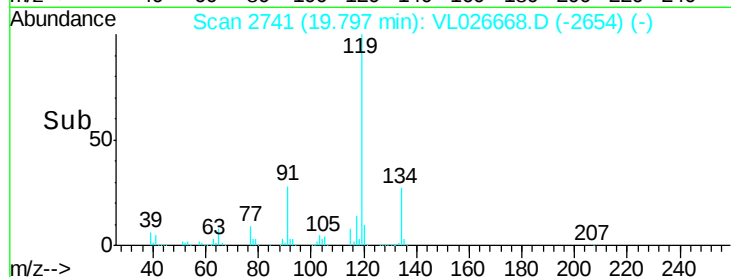
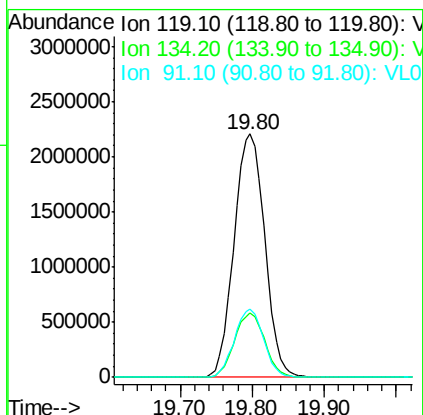
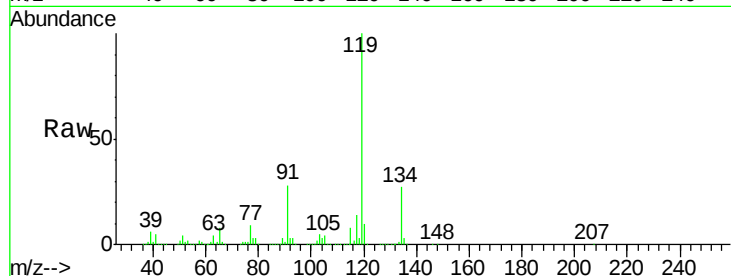




#69  
 p-Isopropyltoluene  
 Concen: 8.13 ppbv  
 RT: 19.80 min Scan# 2741  
 Delta R.T. 0.03 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

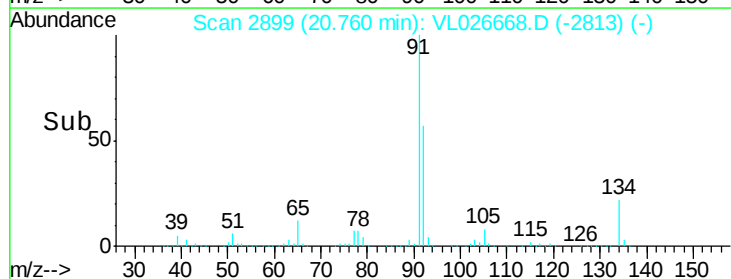
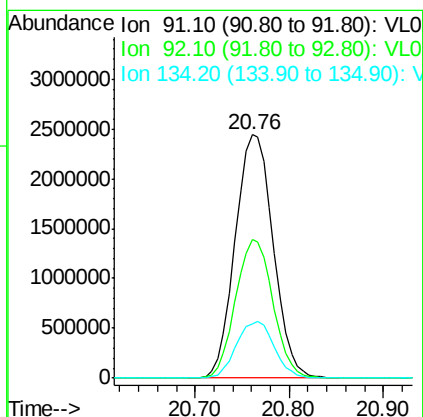
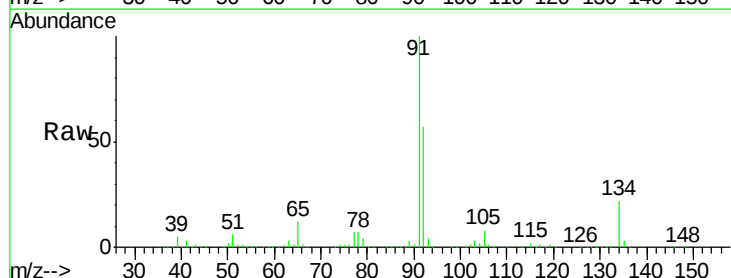
Instrument :  
 MSVOA\_L  
 ClientSampled :

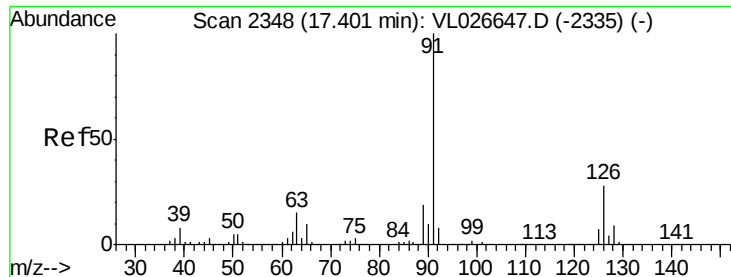
Tot Ion:119 Resp: 6545340  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 20.6 31.0  
 91 26.7 21.7 32.5



#70  
 n-Butylbenzene  
 Concen: 8.23 ppbv  
 RT: 20.76 min Scan# 2899  
 Delta R.T. 0.02 min  
 Lab File: VL026668.D  
 Acq: 12 Jan 2016 9:09

Tgt Ion: 91 Resp: 6890546  
 Ion Ratio Lower Upper  
 91 100  
 92 55.9 45.0 67.4  
 134 23.3 18.2 27.2





#71

2-Chlorotoluene

Concen: 8.42 ppbv

RT: 17.43 min Scan# 2353

Delta R.T. 0.03 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

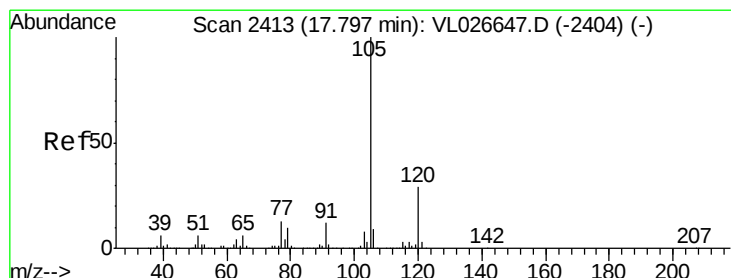
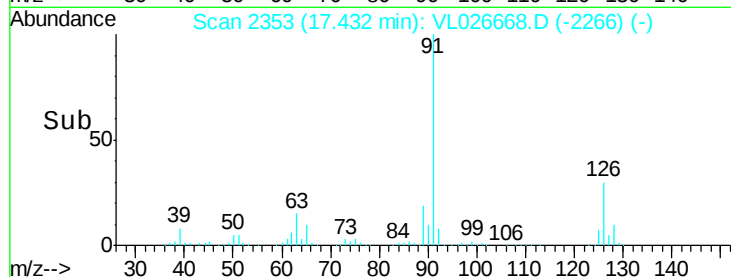
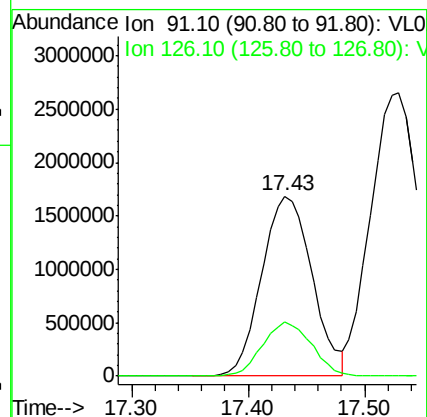
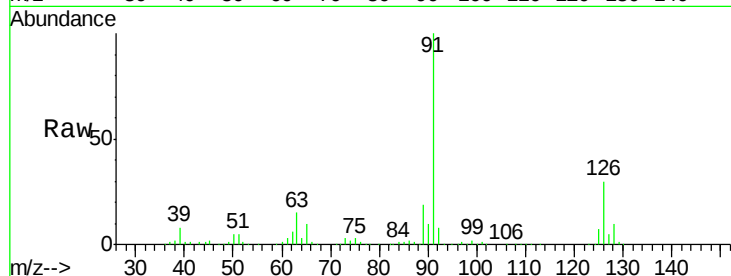
ClientSampled :

Tot Ion: 91 Resp: 5073005

Ion Ratio Lower Upper

91 100

126 29.4 11.4 45.8



#72

4-Ethyltoluene

Concen: 8.36 ppbv

RT: 17.83 min Scan# 2418

Delta R.T. 0.03 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion:105 Resp: 5462721

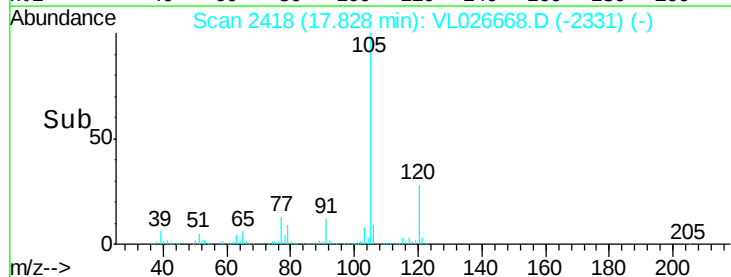
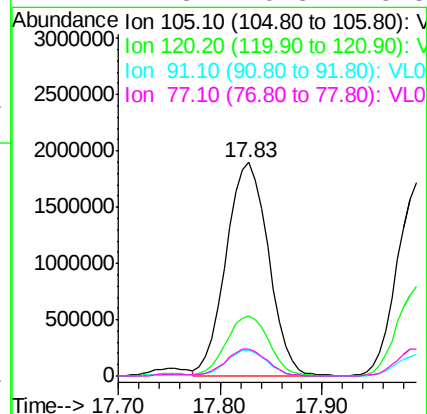
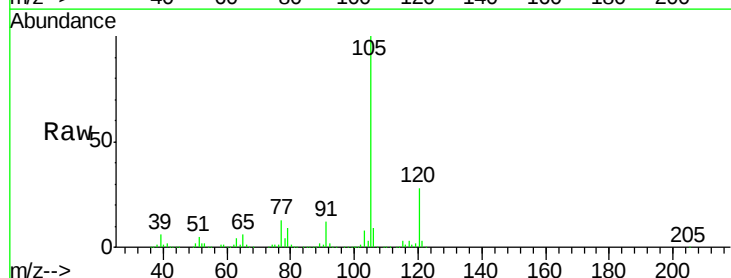
Ion Ratio Lower Upper

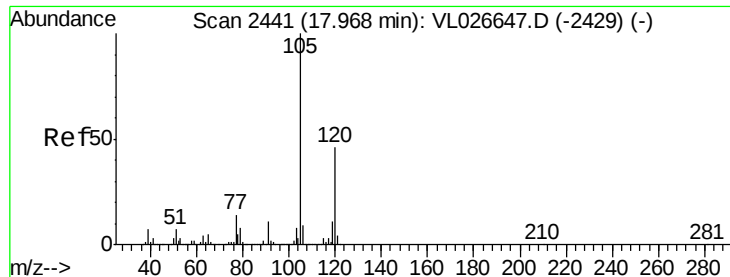
105 100

120 29.5 23.7 35.5

91 12.2 9.7 14.5

77 12.8 10.3 15.5





#73

1,3,5-Trimethylbenzene

Concen: 8.13 ppbv

RT: 18.00 min Scan# 2446

Delta R.T. 0.03 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

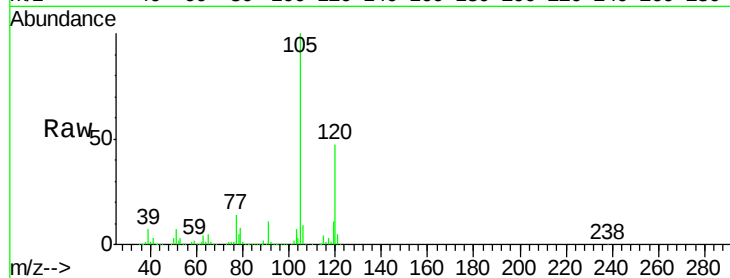
ClientSampleId :

Tot Ion:105 Resp: 5037971

Ion Ratio Lower Upper

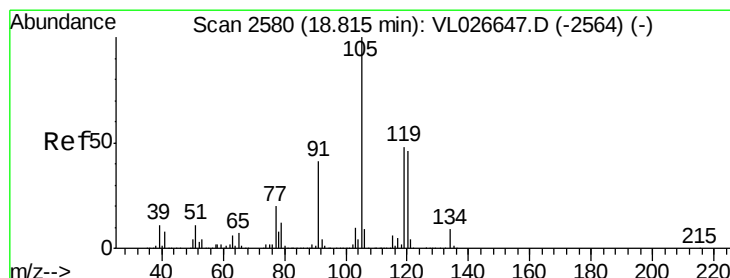
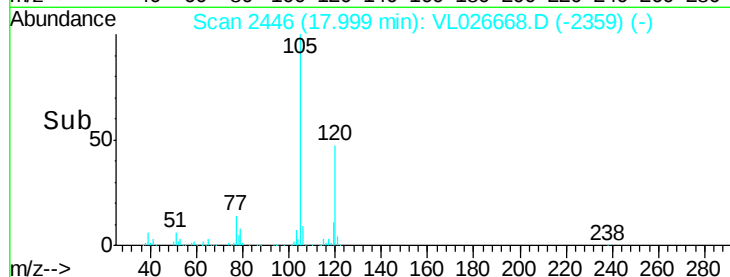
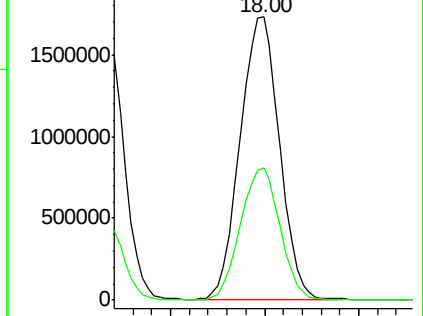
105 100

120 46.9 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.45 ppbv

RT: 18.84 min Scan# 2584

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion:105 Resp: 4898786

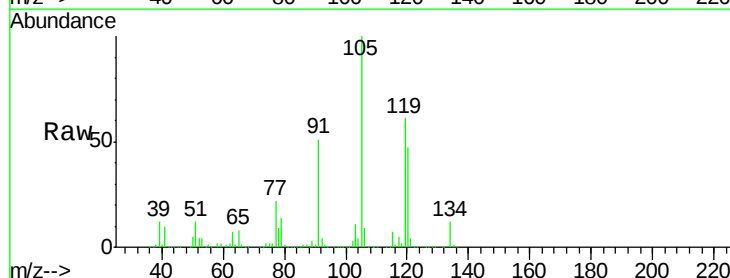
Ion Ratio Lower Upper

105 100

120 47.2 36.6 55.0

91 50.6 32.5 48.7#

77 21.8 15.7 23.5

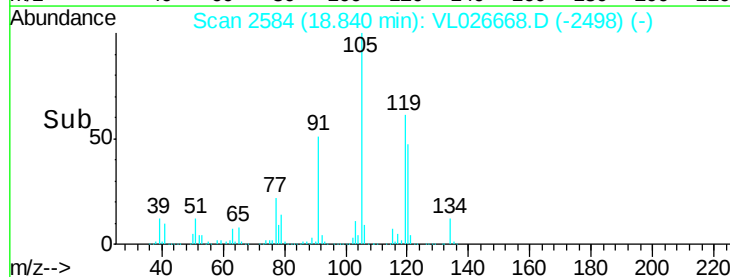
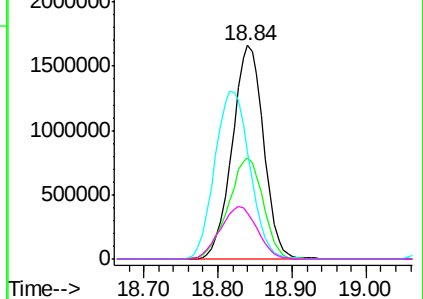


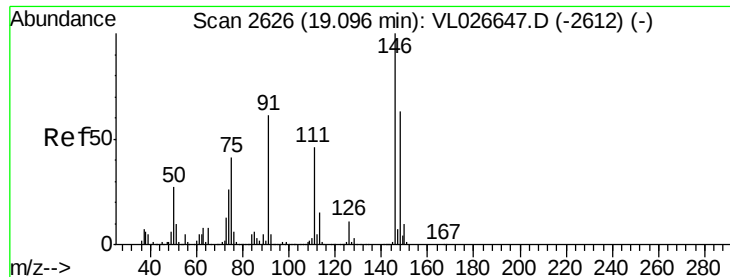
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 7.73 ppbv

RT: 19.13 min Scan# 2631

Delta R.T. 0.03 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

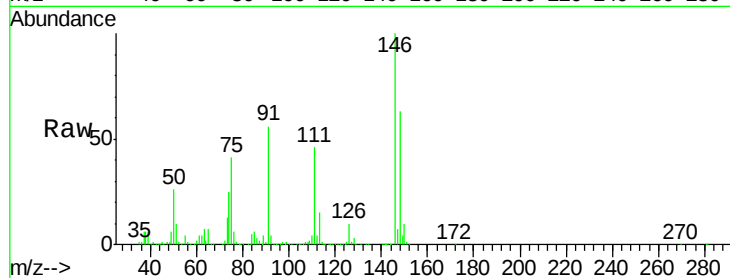
Tot Ion:146 Resp: 3141034

Ion Ratio Lower Upper

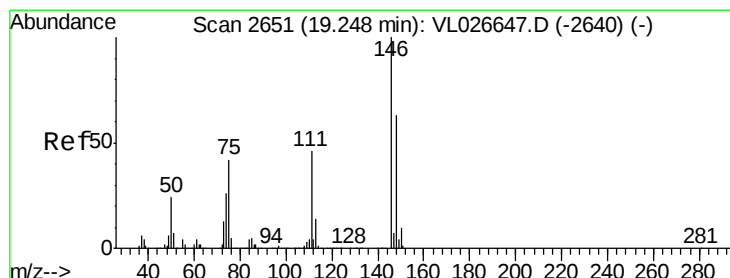
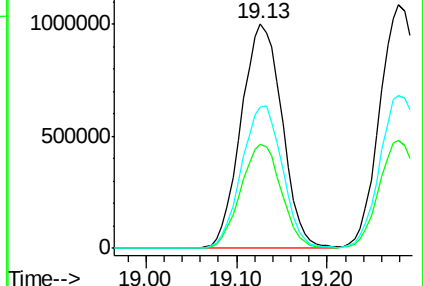
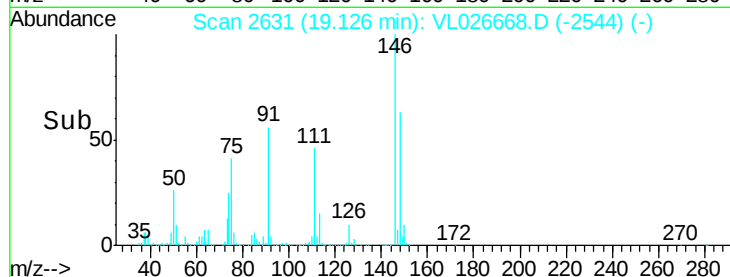
146 100

111 45.8 22.9 68.5

148 63.2 31.6 95.0



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



#76

1,4-Dichlorobenzene

Concen: 7.96 ppbv

RT: 19.28 min Scan# 2656

Delta R.T. 0.03 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

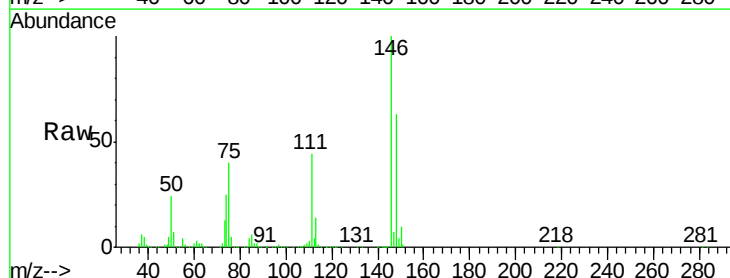
Tgt Ion:146 Resp: 3317559

Ion Ratio Lower Upper

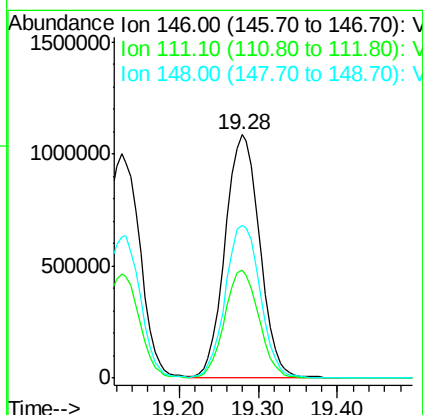
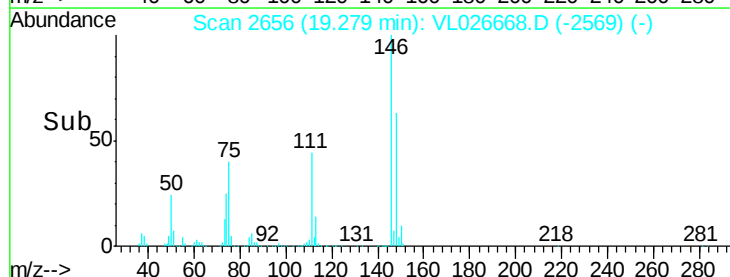
146 100

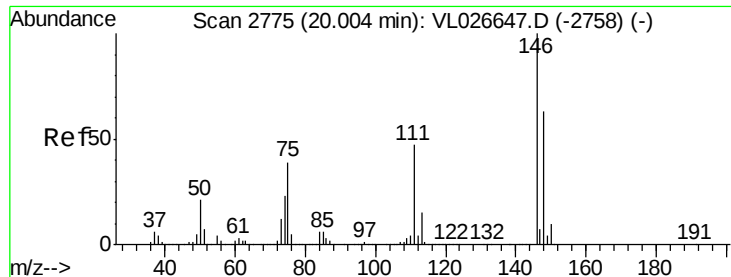
111 44.2 22.3 66.8

148 63.8 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.00 ppbv

RT: 20.03 min Scan# 2779

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

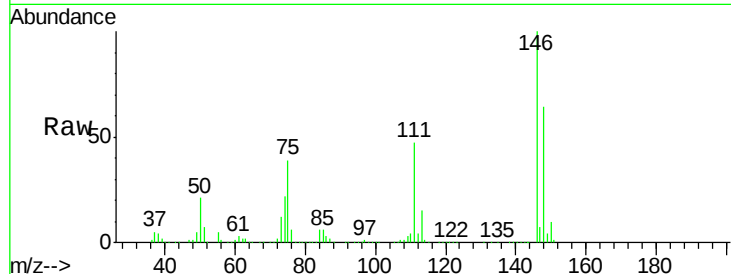
Tot Ion:146 Resp: 3299181

Ion Ratio Lower Upper

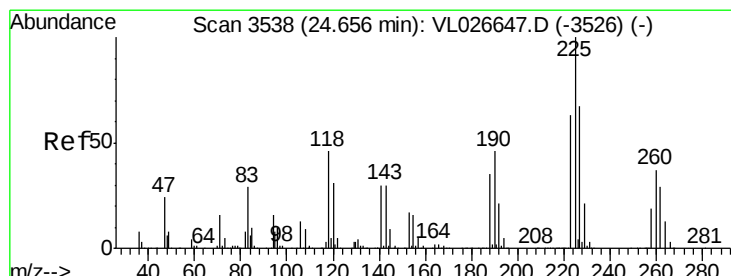
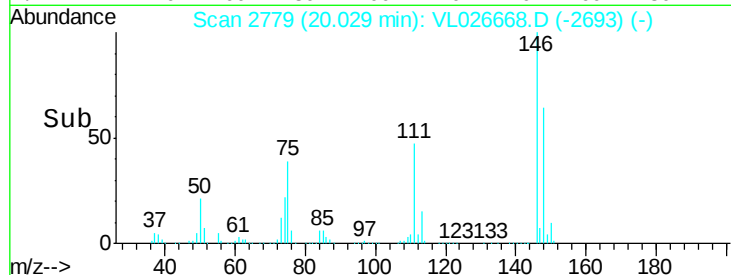
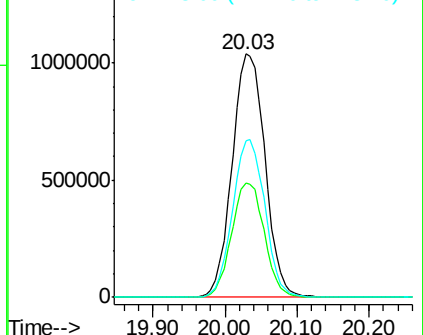
146 100

111 46.9 23.7 71.1

148 64.1 31.1 93.5



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: 6.89 ppbv

RT: 24.68 min Scan# 3542

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

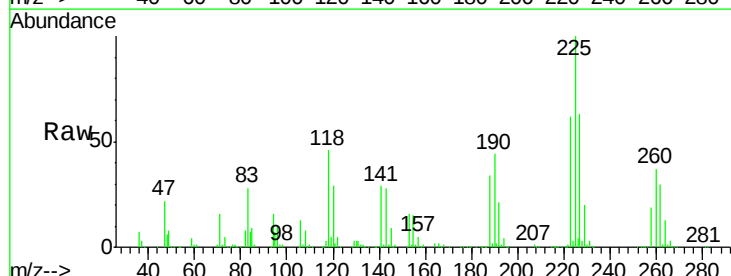
Tgt Ion:225 Resp: 1158588

Ion Ratio Lower Upper

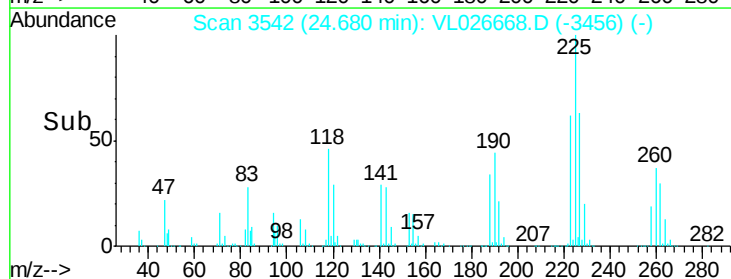
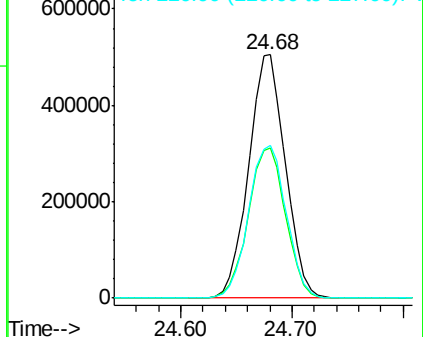
225 100

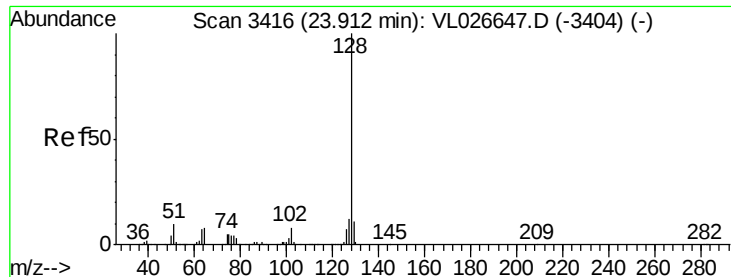
223 63.0 50.1 75.1

227 64.7 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V  
Ion 222.90 (222.60 to 223.60): V  
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.32 ppbv

RT: 23.94 min Scan# 3420

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

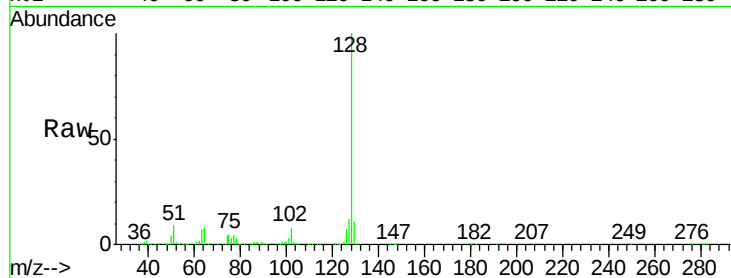
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:128 Resp: 3694937

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 11.8  | 9.8   | 14.8  |
| 129 | 10.8  | 8.9   | 13.3  |

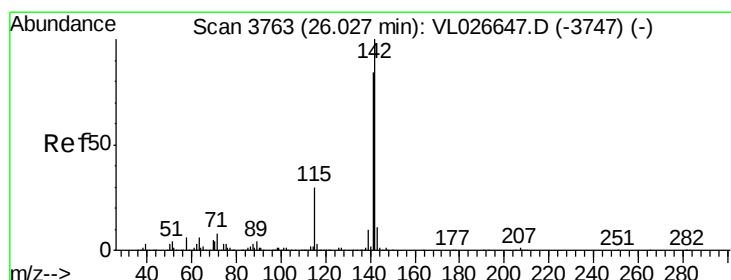
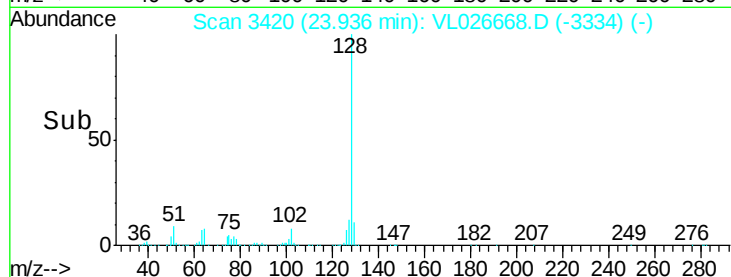
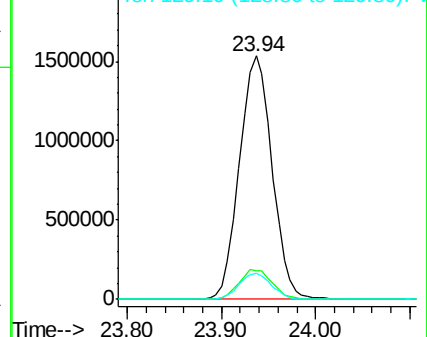


Abundance

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: 11.86 ppbv

RT: 26.05 min Scan# 3767

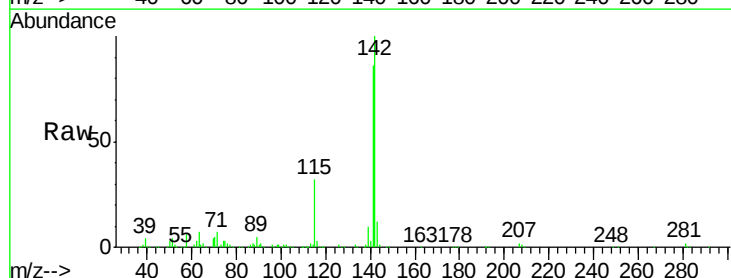
Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Tgt Ion:142 Resp: 817087

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 82.2  | 67.0  | 100.6 |
| 115 | 31.0  | 24.7  | 37.1  |

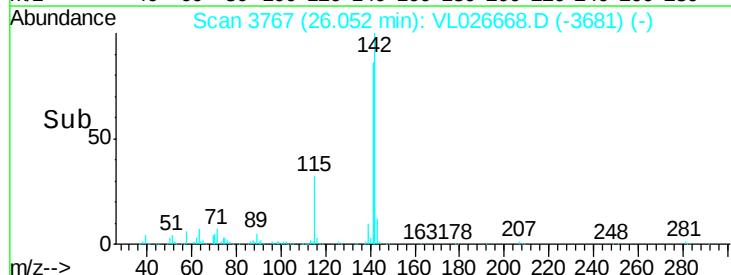
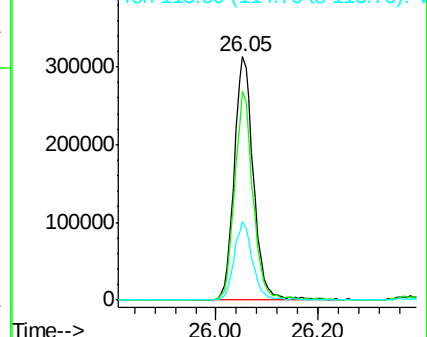


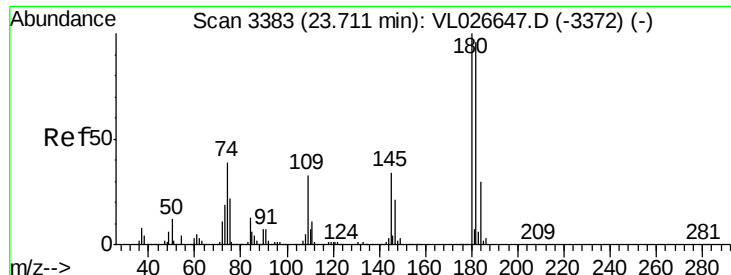
Abundance

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: 8.01 ppbv

RT: 23.74 min Scan# 3387

Delta R.T. 0.02 min

Lab File: VL026668.D

Acq: 12 Jan 2016 9:09

Instrument :

MSVOA\_L

ClientSampleId :

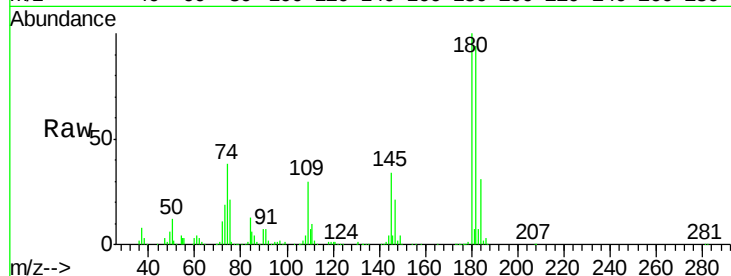
Tot Ion:180 Resp: 1618142

Ion Ratio Lower Upper

180 100

182 95.1 75.4 113.0

184 30.0 24.1 36.1



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

