Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL100915\
Data File : VL026199.D
Acq On : 10 Oct 2015 6:15
Operator : SY/MD
Sample : G3973-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Oct 12 02:09:20 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL100915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct 09 16:23:14 2015
QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 6.64 | 49 | 470475 | 10.00 | ppbv | | -0.02 |
| 33) 1,4-Difluorobenzene | 8.32 | 114 | 1506702 | 10.00 | ppbv | | -0.02 |
| 55) Chlorobenzene-d5 | 13.73 | 117 | 1505524 | 10.00 | ppbv | | -0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 16.27 | 95 | 1226167 | 10.61 | ppbv | | -0.03 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 106.10% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.64 | 85 | 27244 | 0.31 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 3.57 | 51 | 110551 | 2.01 | ppbv | # | 91 |
| 4) Chloromethane | 3.75 | 50 | 15357 | 0.50 | ppbv | | 99 |
| 5) Vinyl Chloride | 3.61 | 62 | 1231 | 0.04 | ppbv | # | 43 |
| 7) Chloroethane | 4.24 | 64 | 15352 | 1.13 | ppbv | | 99 |
| 9) Propene | 3.82 | 41 | 106652 | 4.23 | ppbv | | 89 |
| 10) Heptane | 9.35 | 43 | 162141 | 1.85 | ppbv | | 96 |
| 11) Trichlorofluoromethane | 4.69 | 101 | 25071 | 0.29 | ppbv | | 98 |
| 12) 1,1,2-Trichlorotrifluoroet | 5.30 | 101 | 4872 | 0.08 | ppbv | | 91 |
| 13) Ethanol | 4.32 | 45 | 240435 | 64.79 | ppbv | | 93 |
| 15) Acetone | 4.59 | 43 | 1182799 | 19.45 | ppbv | # | 87 |
| 16) 1,3-Butadiene | 3.94 | 39 | 31432 | 1.12 | ppbv | # | 7 |
| 17) tert-Butyl alcohol | 5.14 | 59 | 78417 | 2.14 | ppbv | | 100 |
| 19) Isopropyl Alcohol | 4.75 | 45 | 194682 | 8.22 | ppbv | # | 1 |
| 20) Methylene Chloride | 5.15 | 84 | 37270 | 1.44 | ppbv | | 96 |
| 21) Allyl Chloride | 5.17 | 41 | 44310 | 1.12 | ppbv | # | 61 |
| 23) Vinyl Acetate | 5.95 | 43 | 150390 | 1.40 | ppbv | # | 1 |
| 25) Ethyl Acetate | 6.65 | 43 | 195303 | 1.66 | ppbv | # | 83 |
| 26) Hexane | 6.65 | 57 | 260146 | 4.57 | ppbv | # | 49 |
| 27) Carbon Disulfide | 5.39 | 76 | 236754 | 3.47 | ppbv | | 97 |
| 28) Methyl tert-Butyl Ether | 5.96 | 73 | 6513 | 0.07 | ppbv | # | 1 |
| 29) Chloroform | 6.74 | 83 | 8694 | 0.10 | ppbv | | 92 |
| 30) Cyclohexane | 8.27 | 84 | 95340 | 1.76 | ppbv | # | 72 |
| 31) cis-1,2-Dichloroethene | 6.68 | 61 | 3715 | 0.07 | ppbv | # | 21 |
| 34) 2-Butanone | 6.20 | 43 | 108143 | 1.29 | ppbv | | 93 |
| 35) Carbon Tetrachloride | 8.15 | 117 | 8433 | 0.09 | ppbv | # | 83 |
| 36) Benzene | 8.01 | 78 | 240294 | 1.67 | ppbv | | 99 |
| 37) 1,2-Dichloroethane | 7.37 | 62 | 2841 | 0.04 | ppbv | # | 78 |
| 39) 1,2-Dichloropropane | 9.09 | 63 | 1670 | 0.03 | ppbv | # | 1 |
| 41) Tetrahydrofuran | 7.13 | 42 | 17238 | 0.36 | ppbv | # | 73 |
| 42) Bromodichloromethane | 8.99 | 83 | 16521 | 0.16 | ppbv | # | 24 |
| 43) Methyl Methacrylate | 9.27 | 69 | 8353 | 0.16 | ppbv | # | 1 |
| 44) 2,2,4-Trimethylpentane | 9.07 | 57 | 913009 | 3.81 | ppbv | # | 88 |
| 49) Bromoform | 14.80 | 173 | 2483 | 0.04 | ppbv | # | 81 |
| 50) 4-Methyl-2-Pentanone | 10.09 | 43 | 111447 | 1.00 | ppbv | | 94 |
| 51) 2-Hexanone | 11.62 | 43 | 15913 | 0.16 | ppbv | # | 26 |
| 52) Tetrachloroethene | 12.78 | 164 | 4317 | 0.06 | ppbv | # | 81 |
| 53) Toluene | 11.23 | 91 | 1226523 | 6.60 | ppbv | | 100 |
| 57) Chlorobenzene | 13.82 | 112 | 11516 | 0.08 | ppbv | # | 46 |
| 58) Ethyl Benzene | 14.40 | 91 | 303856 | 1.39 | ppbv | | 99 |
| 59) m/p-Xylene | 14.68 | 91 | 811294 | 4.62 | ppbv | | 100 |

Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL100915\
Data File : VL026199.D
Acq On : 10 Oct 2015 6:15
Operator : SY/MD
Sample : G3973-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :**

Quant Time: Oct 12 02:09:20 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL100915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct 09 16:23:14 2015
QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 60) o-Xylene | 15.47 | 91 | 284394 | 1.55 | ppbv | | 98 |
| 61) Styrene | 15.30 | 104 | 96044 | 1.28 | ppbv | | 99 |
| 62) Isopropylbenzene | 16.53 | 105 | 40984 | 0.17 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 15.47 | 83 | 6698 | 0.05 | ppbv | # | 62 |
| 64) n-propylbenzene | 17.50 | 120 | 21683 | 0.33 | ppbv | | 98 |
| 65) tert-Butylbenzene | 18.81 | 119 | 46486 | 0.22 | ppbv | # | 78 |
| 66) Benzyl Chloride | 19.10 | 91 | 6787 | 0.11 | ppbv | # | 89 |
| 67) sec-Butylbenzene | 19.39 | 105 | 29234 | 0.10 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 19.77 | 119 | 41954 | 0.18 | ppbv | # | 82 |
| 70) n-Butylbenzene | 20.75 | 91 | 38684 | 0.17 | ppbv | # | 67 |
| 71) 2-Chlorotoluene | 17.41 | 91 | 10551 | 0.06 | ppbv | | 97 |
| 72) 4-Ethyltoluene | 17.81 | 105 | 110910 | 0.57 | ppbv | | 98 |
| 73) 1,3,5-Trimethylbenzene | 17.97 | 105 | 86130 | 0.47 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 18.82 | 105 | 268844 | 1.39 | ppbv | # | 72 |
| 75) 1,3-Dichlorobenzene | 19.10 | 146 | 7530 | 0.06 | ppbv | | 93 |
| 76) 1,4-Dichlorobenzene | 19.26 | 146 | 17744 | 0.14 | ppbv | # | 75 |
| 77) 1,2-Dichlorobenzene | 20.00 | 146 | 8053 | 0.07 | ppbv | | 87 |
| 78) Hexachloro-1,3-Butadiene | 24.66 | 225 | 4366 | 0.09 | ppbv | | 98 |
| 79) Naphthalene | 23.92 | 128 | 66650 | 0.55 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 26.04 | 142 | 4837 | 0.18 | ppbv | # | 85 |
| 81) 1,2,4-Trichlorobenzene | 23.72 | 180 | 4835 | 0.08 | ppbv | | 89 |

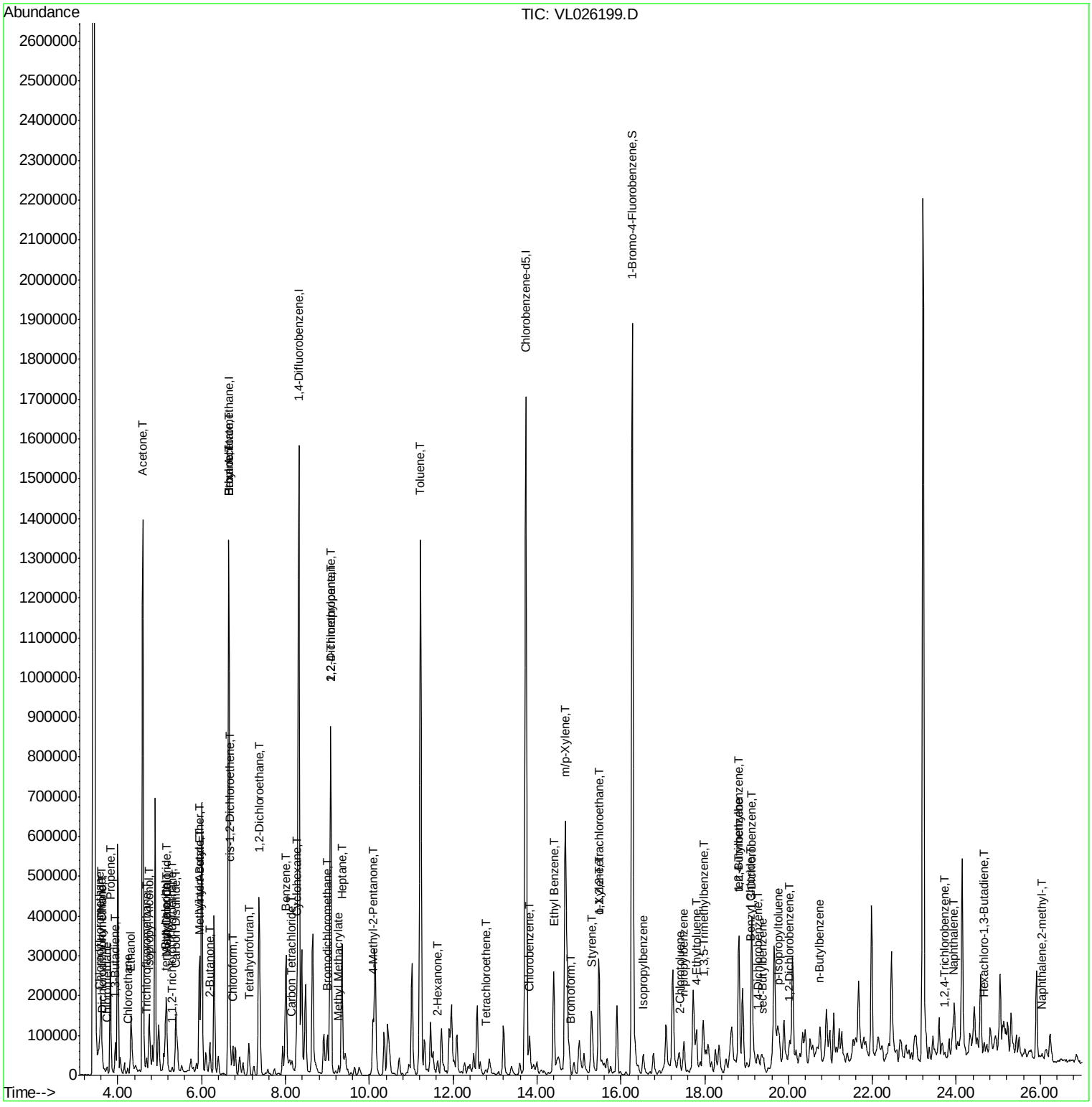
(#) = qualifier out of range (m) = manual integration (+) = signals summed

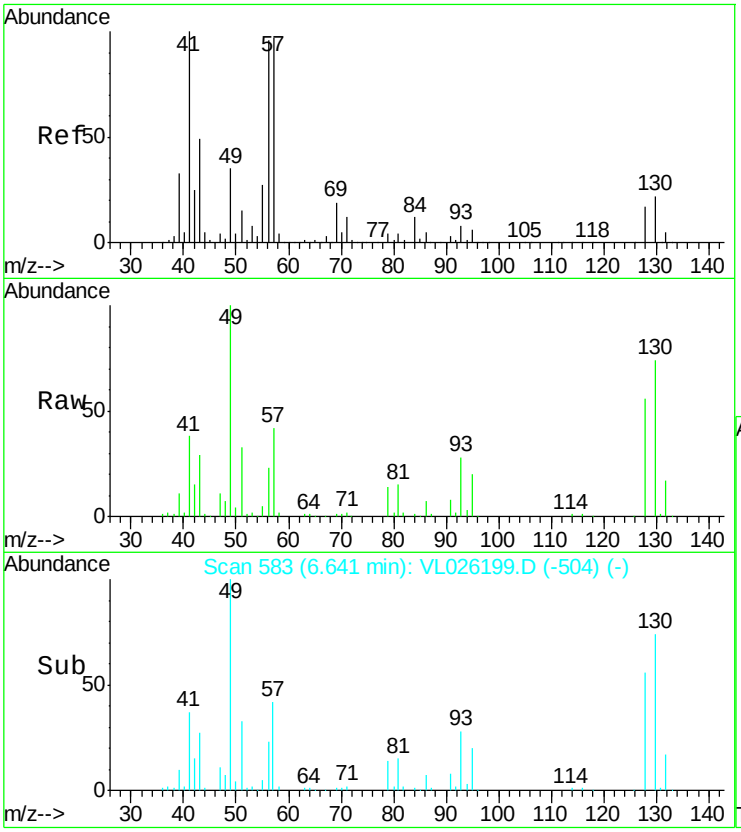
Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL100915\
Data File : VL026199.D
Acq On : 10 Oct 2015 6:15
Operator : SY/MD
Sample : G3973-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :**

Quant Time: Oct 12 02:09:20 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL100915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct 09 16:23:14 2015
QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration



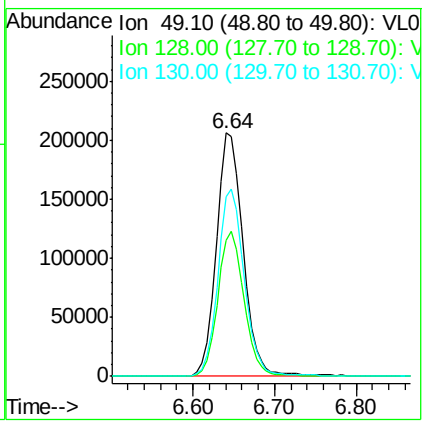


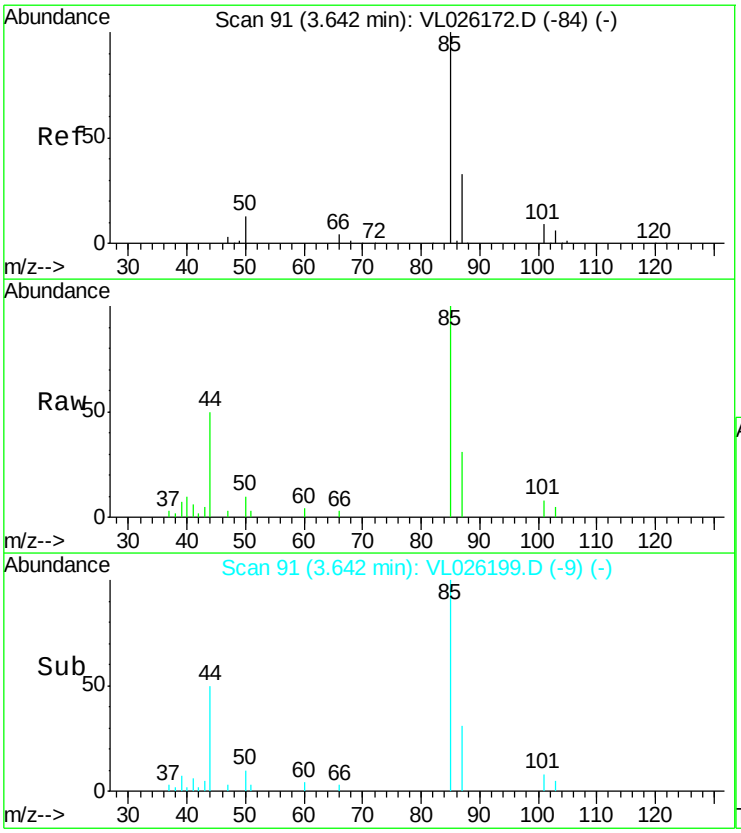

#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.64 min Scan# 583
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 49 Resp: 470475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 58.9 | 26.3 | 78.8 |
| 130 | 76.2 | 34.2 | 102.5 |

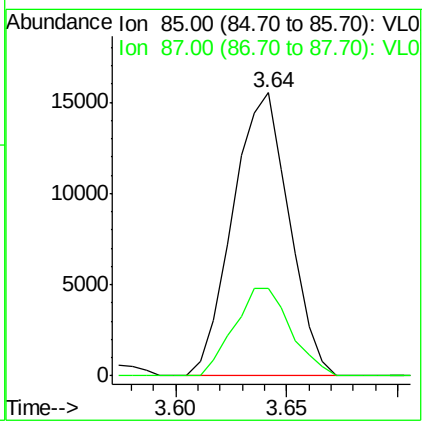


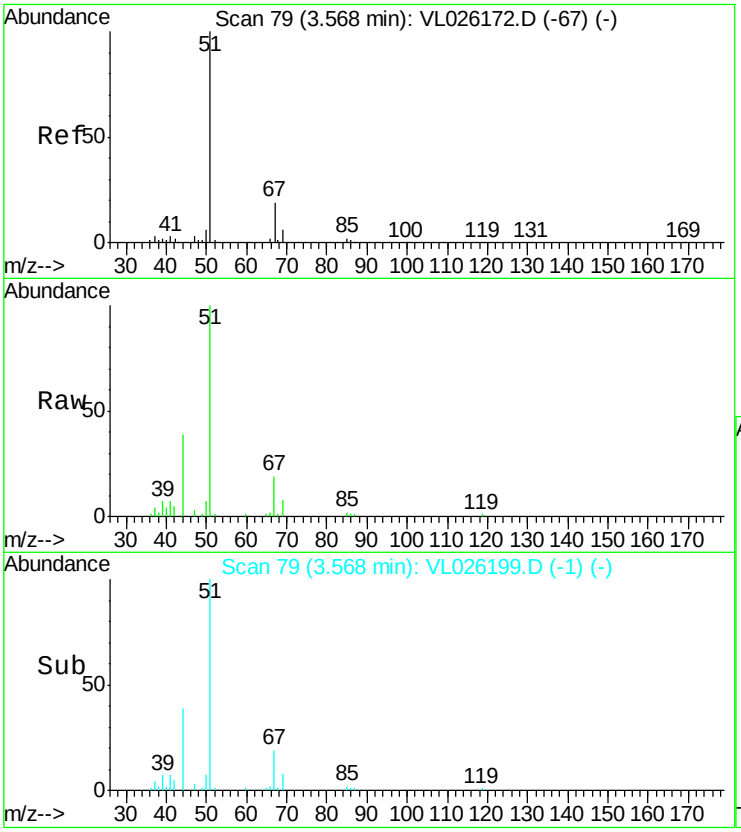




#2
Dichlorodifluoromethane
Concen: 0.31 ppbv
RT: 3.64 min Scan# 91
Delta R.T. 0.00 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 85 Resp: 27244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.1 | 26.2 | 39.4 |

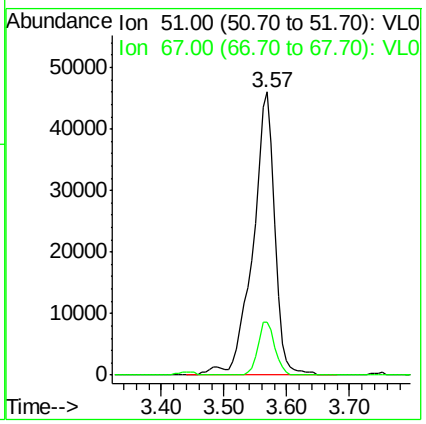




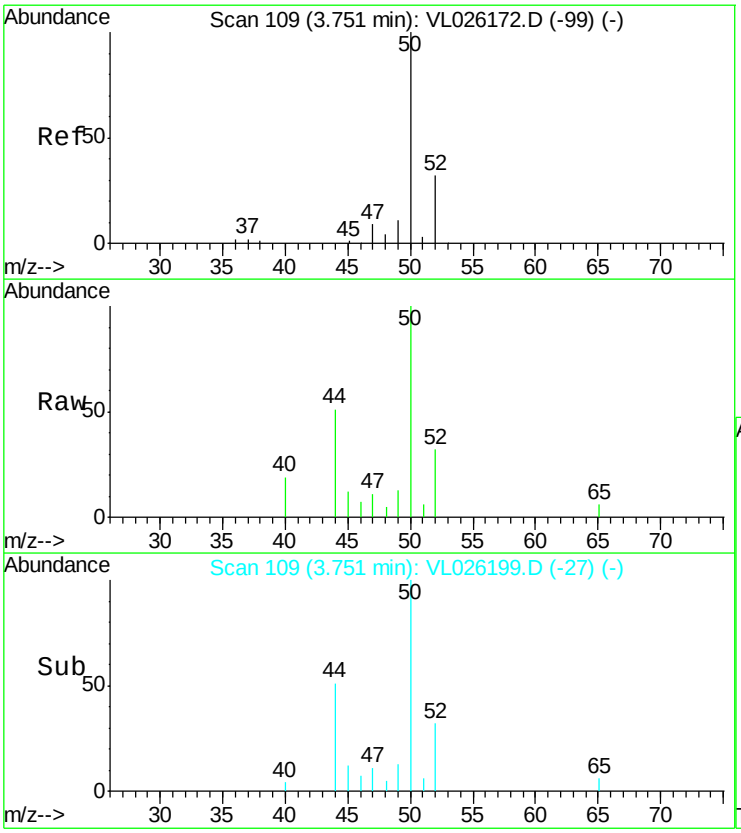

#3
Chlorodifluoromethane
Concen: 2.01 ppbv
RT: 3.57 min Scan# 79
Delta R.T. 0.00 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 51 Resp: 110551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 14.5 | 14.9 | 22.3# |



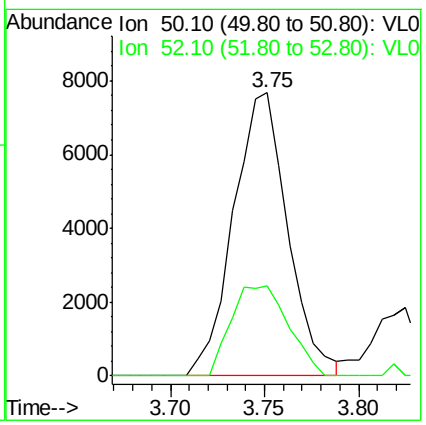

**Instrument :**
MSVOA_L
**ClientSampleId :**

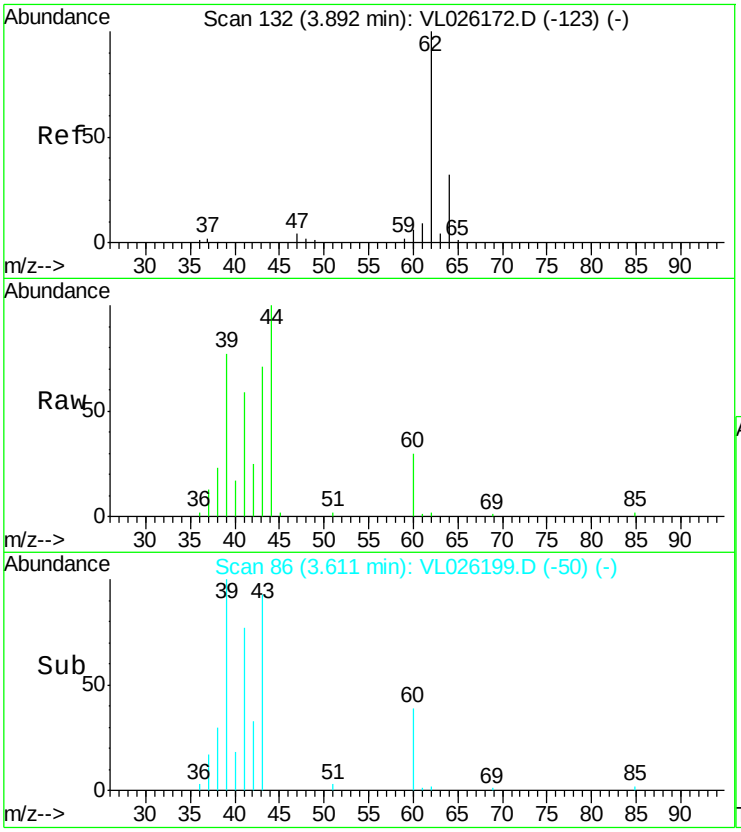



#4
Chloromethane
Concen: 0.50 ppbv
RT: 3.75 min Scan# 109
Delta R.T. 0.00 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 50 Resp: 15357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 25.9 | 38.9 |



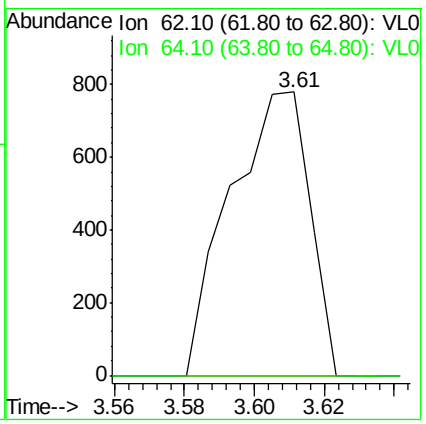


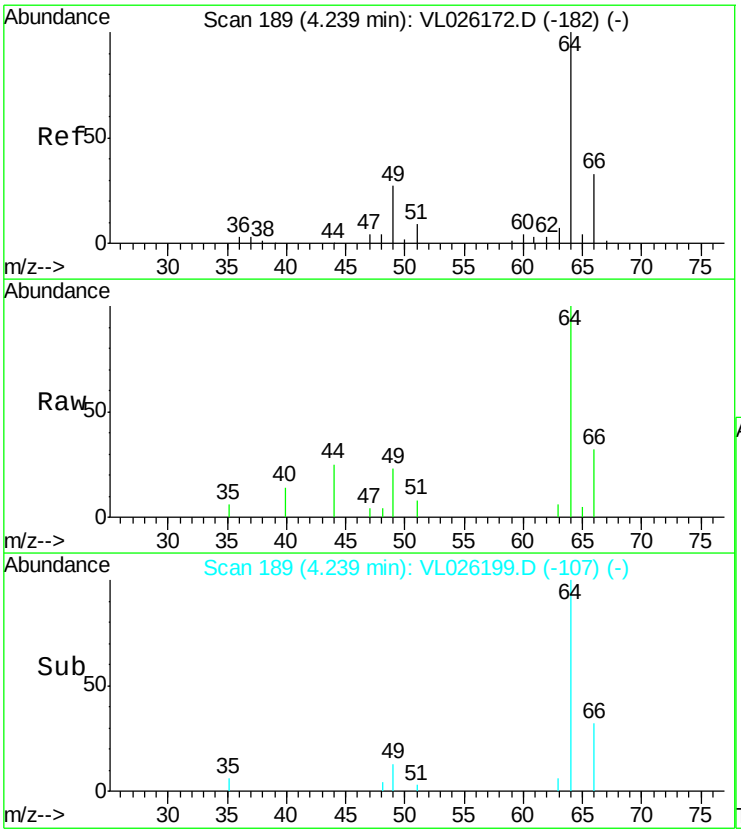

#5
Vinyl Chloride
Concen: 0.04 ppbv
RT: 3.61 min Scan# 86
Delta R.T. -0.28 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 62 Resp: 1231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 0.0 | 25.6 | 38.4# |

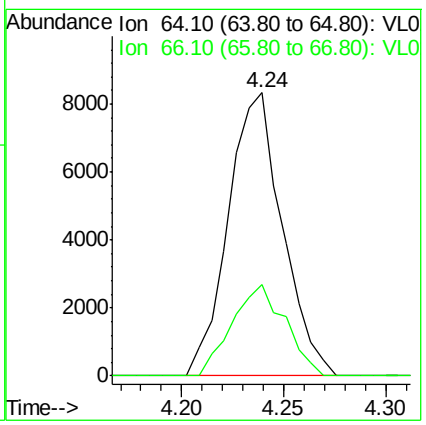


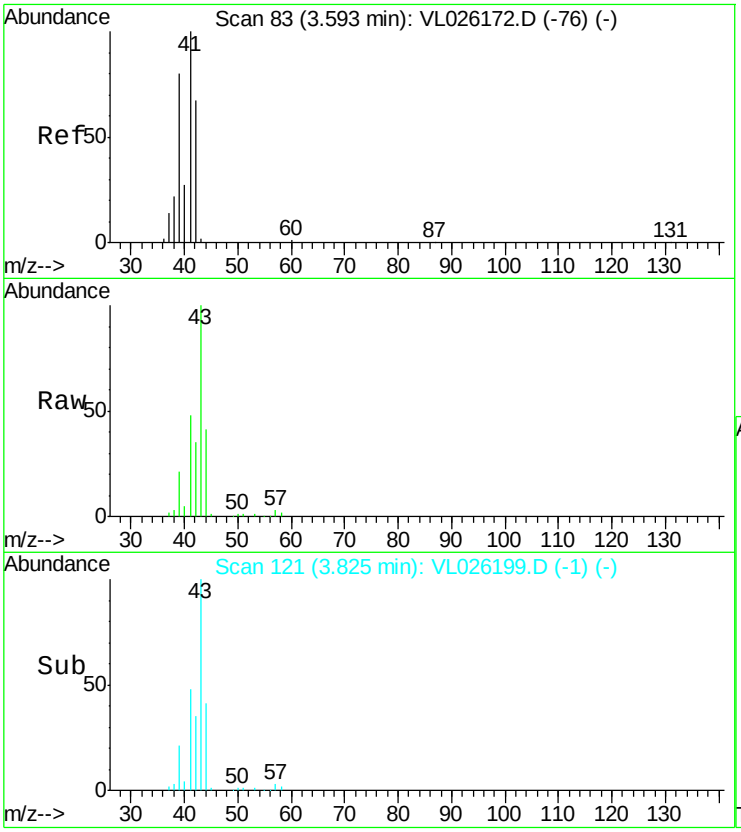




#7
Chloroethane
Concen: 1.13 ppbv
RT: 4.24 min Scan# 189
Delta R.T. 0.00 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 64 Resp: 15352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 26.5 | 39.7 |



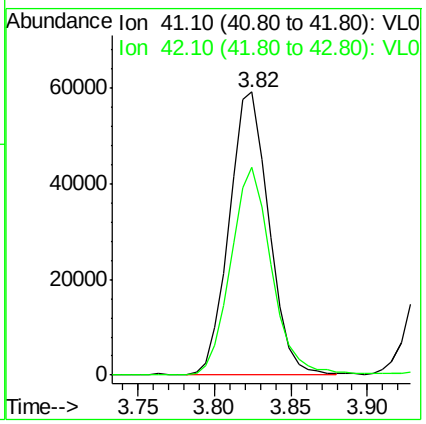


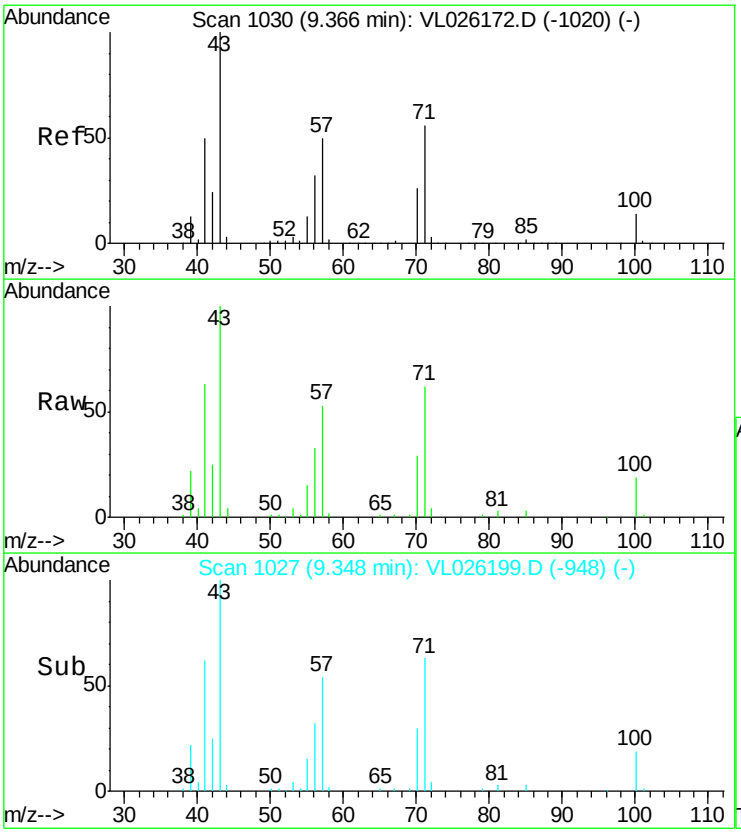

#9
Propene
Concen: 4.23 ppbv
RT: 3.82 min Scan# 121
Delta R.T. 0.23 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 41 Resp: 106652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 76.0 | 53.6 | 80.4 |

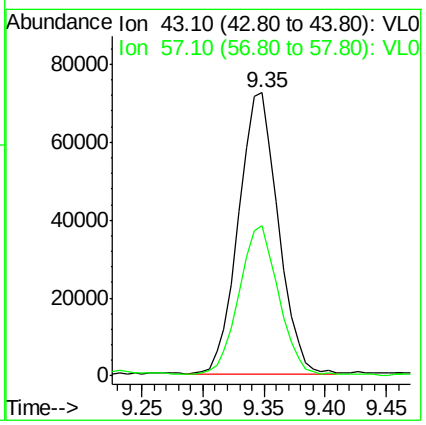


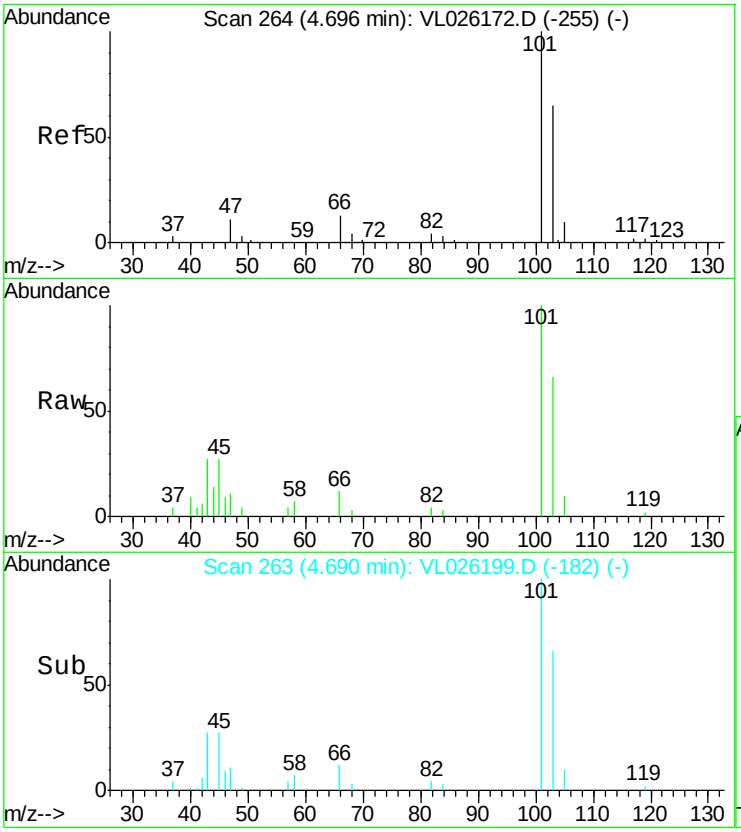




#10
Heptane
Concen: 1.85 ppbv
RT: 9.35 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 43 Resp: 162141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 54.8 | 41.8 | 62.8 |



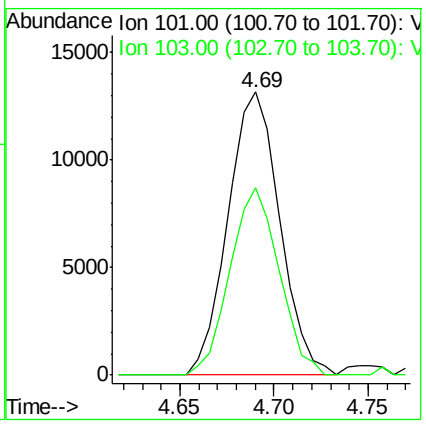


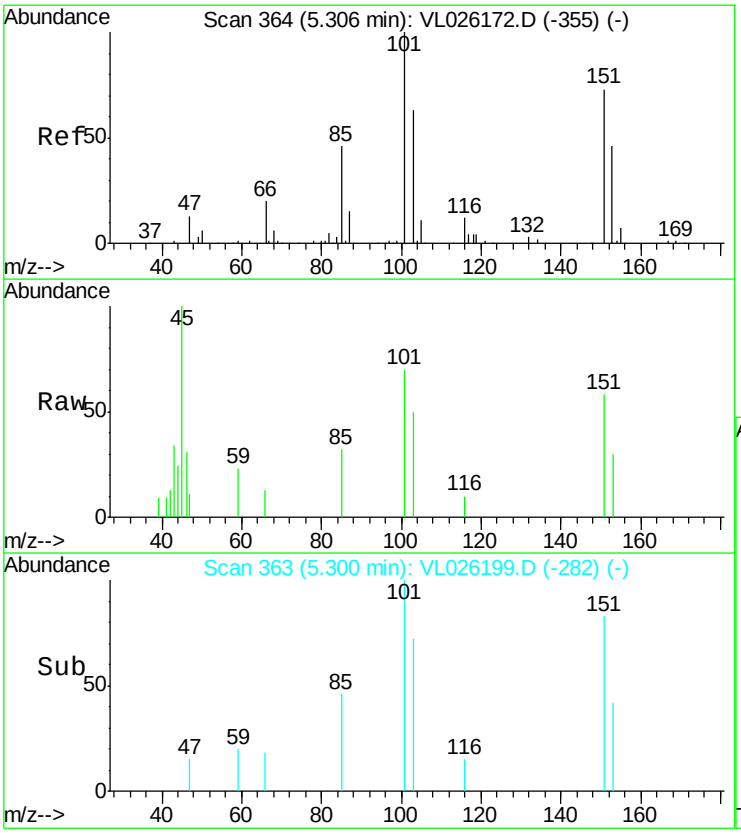

#11
Trichlorofluoromethane
Concen: 0.29 ppbv
RT: 4.69 min Scan# 263
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:101 Resp: 25071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.3 | 51.9 | 77.9 |

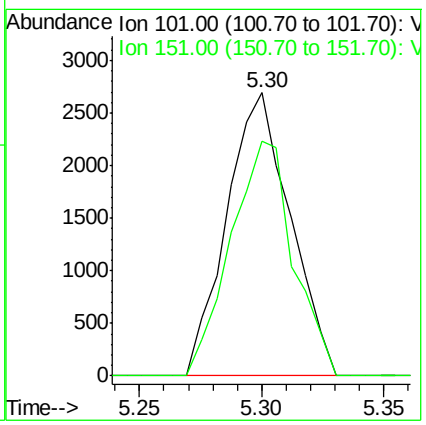


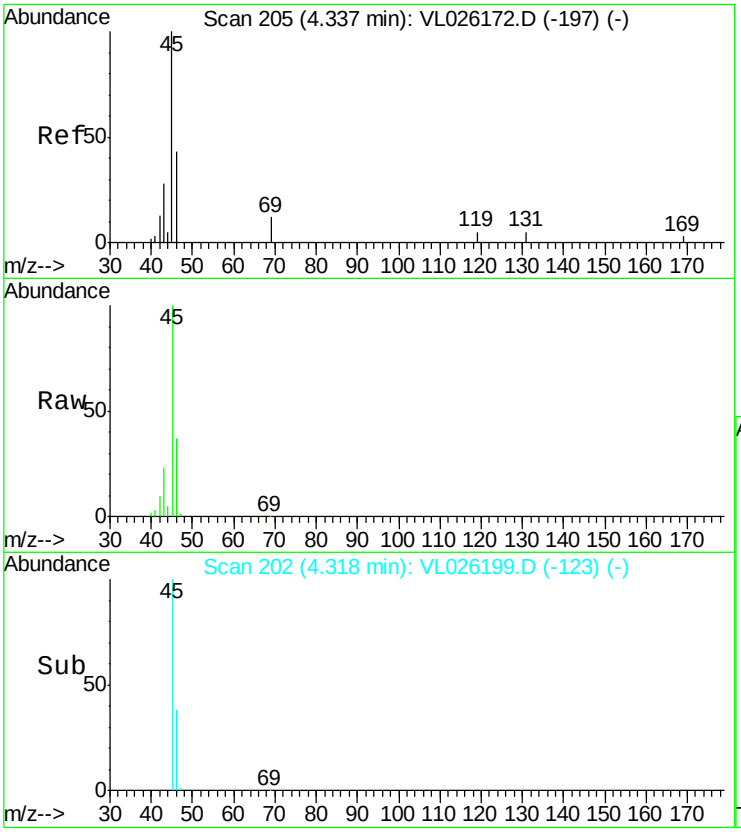




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.08 ppbv
RT: 5.30 min Scan# 363
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:101 Resp: 4872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 81.5 | 59.0 | 88.6 |



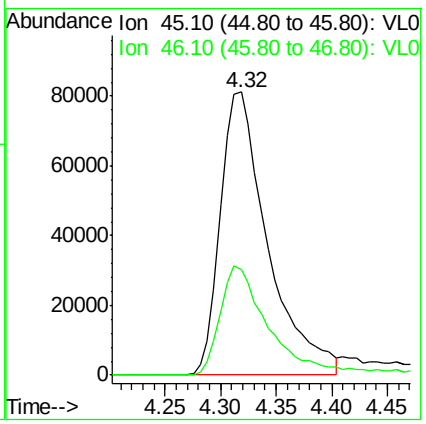


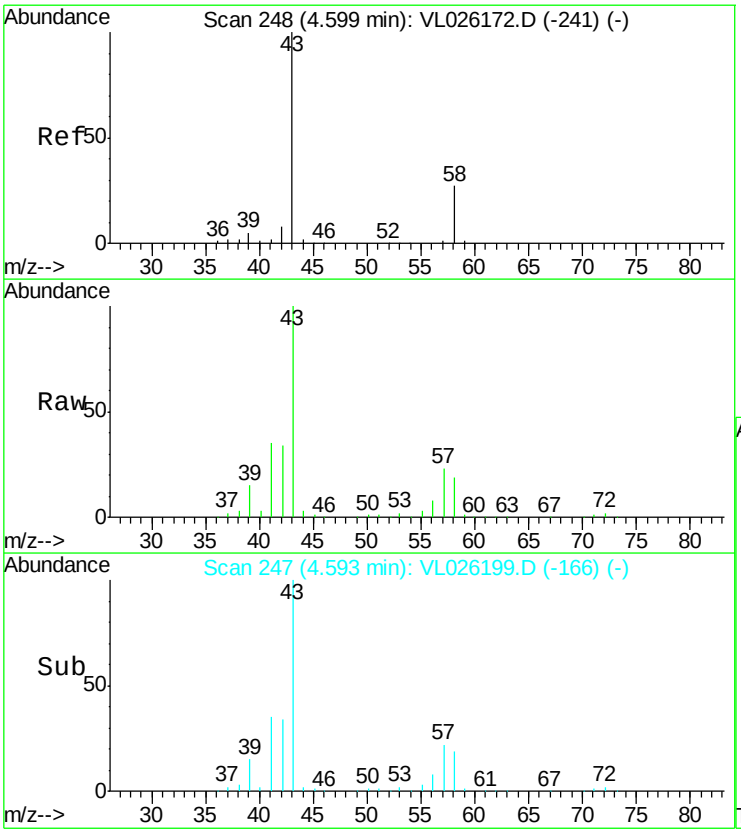

#13
Ethanol
Concen: 64.79 ppbv
RT: 4.32 min Scan# 202
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 45 Resp: 240435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.7 | 18.1 | 72.5 |

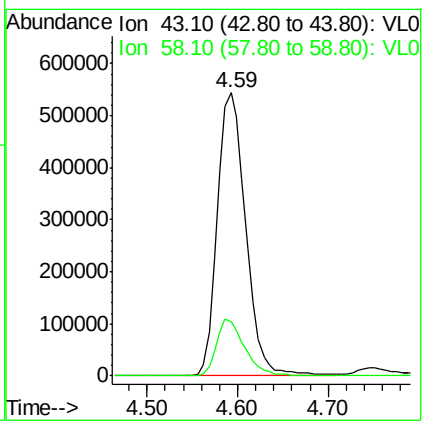


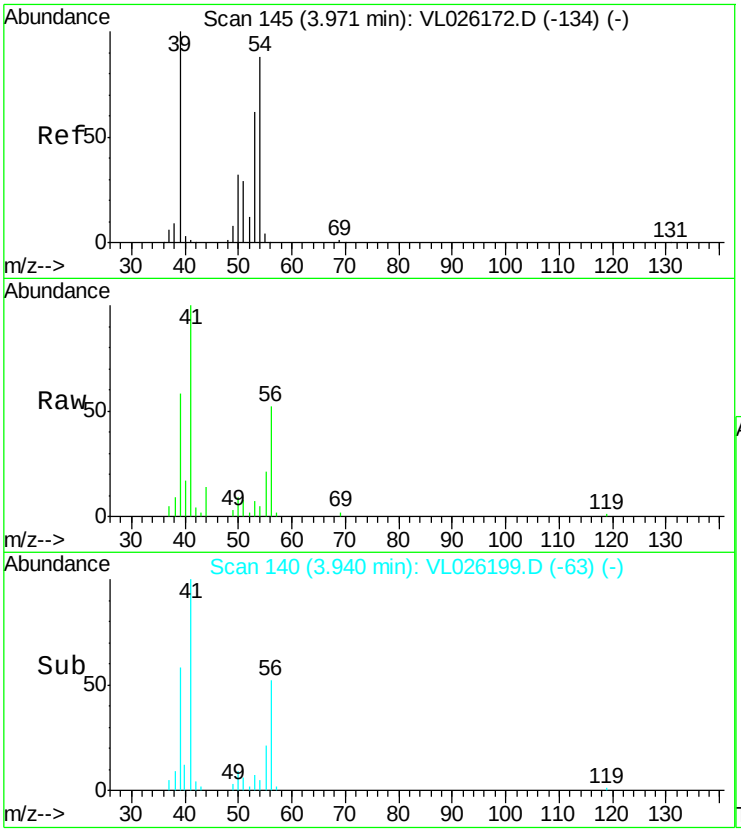




#15
Acetone
Concen: 19.45 ppbv
RT: 4.59 min Scan# 247
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 43 Resp: 1182799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.5 | 22.0 | 33.0# |



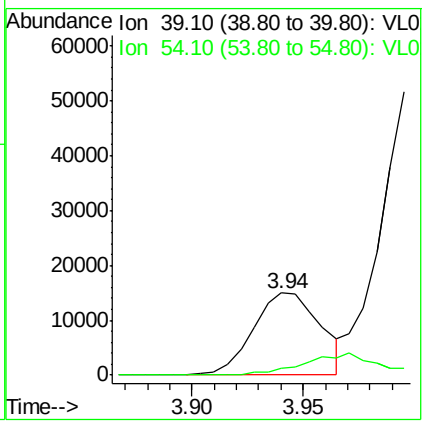


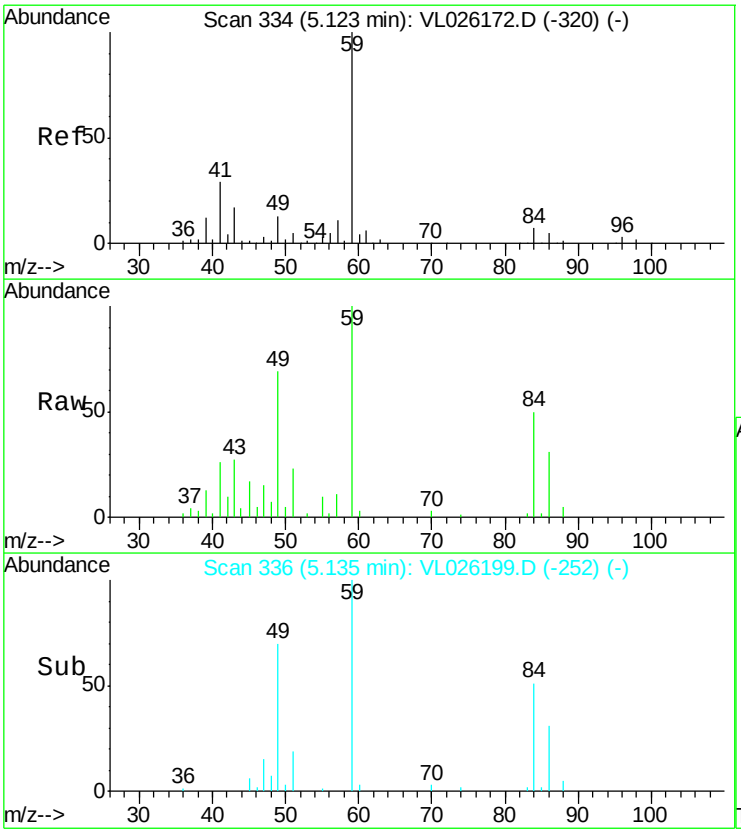

#16
1,3-Butadiene
Concen: 1.12 ppbv
RT: 3.94 min Scan# 140
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 39 Resp: 31432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.0 | 67.9 | 101.9# |

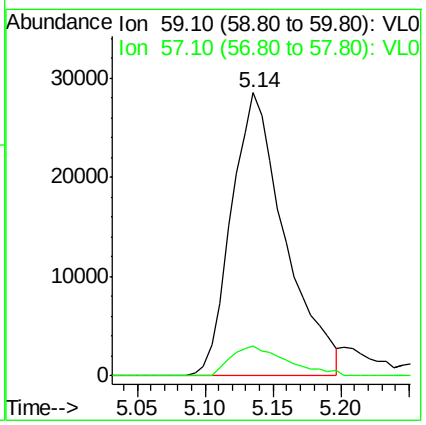


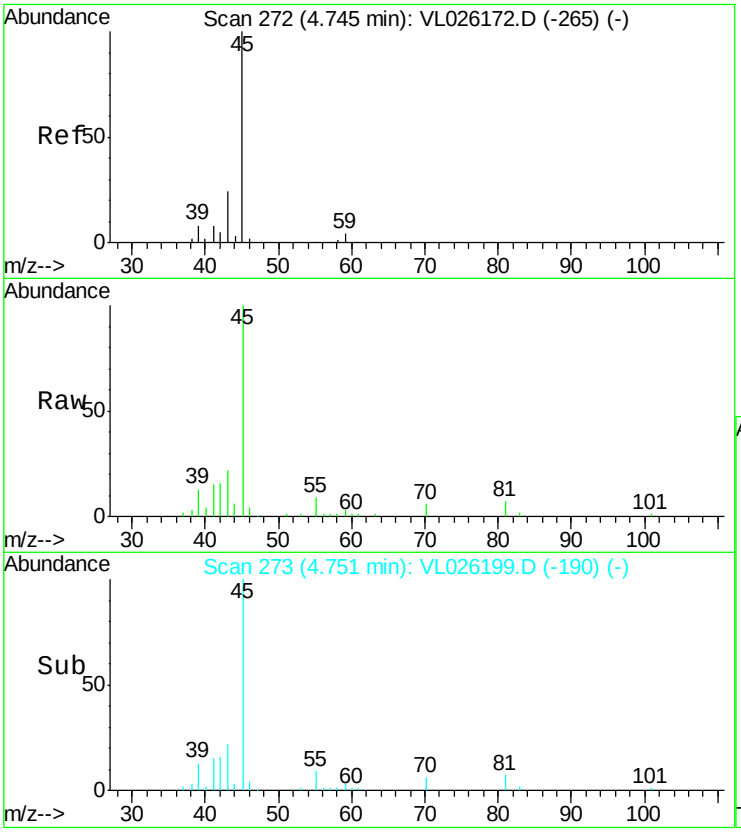




#17
tert-Butyl alcohol
Concen: 2.14 ppbv
RT: 5.14 min Scan# 336
Delta R.T. 0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 59 Resp: 78417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.8 | 13.2 |



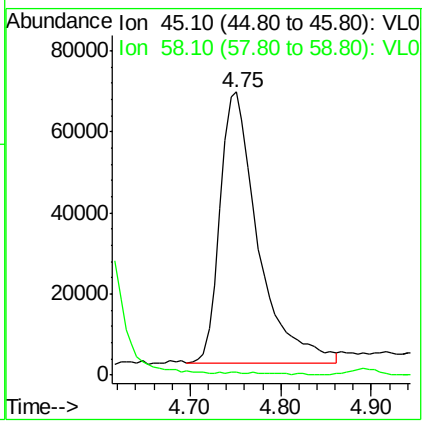


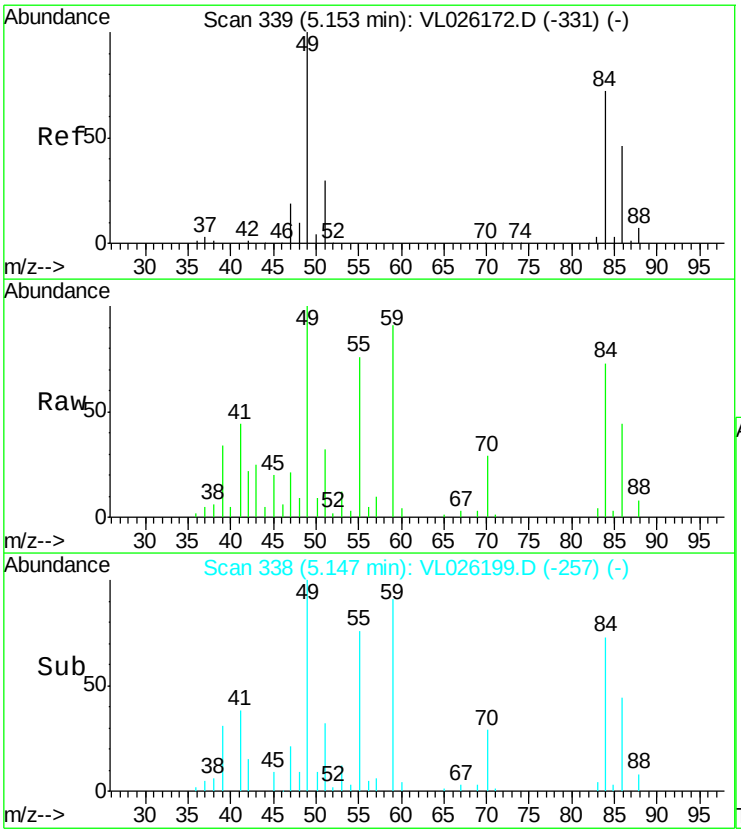

#19
Isopropyl Alcohol
Concen: 8.22 ppbv
RT: 4.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 45 Resp: 194682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 124.8 | 1.7 | 2.5# |

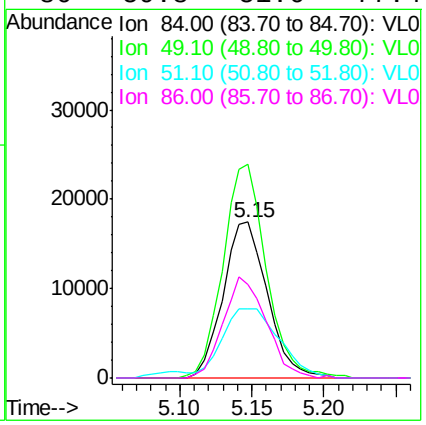


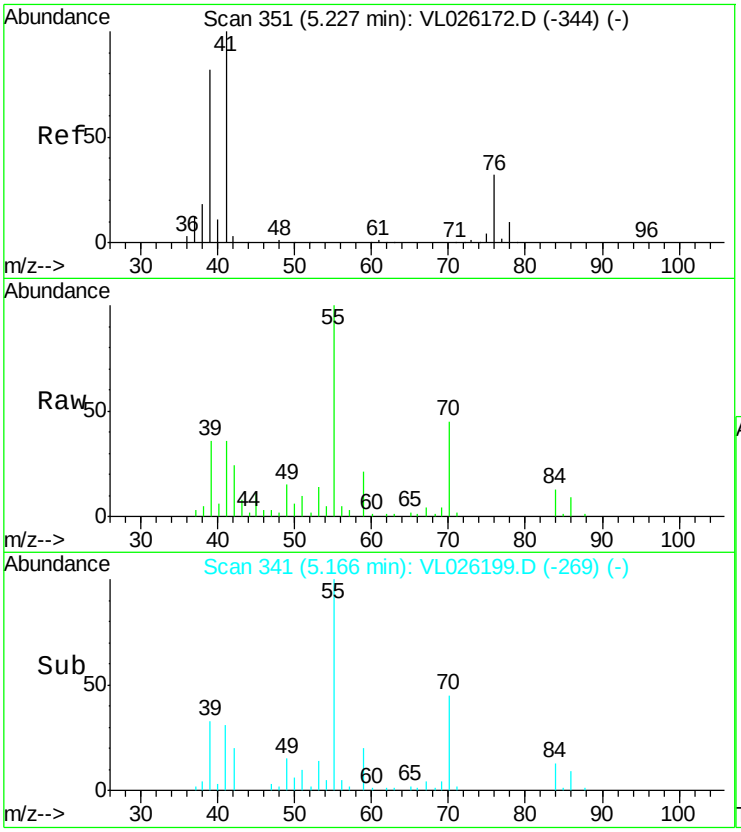




#20
Methylene Chloride
Concen: 1.44 ppbv
RT: 5.15 min Scan# 338
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 84 Resp: 37270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 134.9 | 111.3 | 166.9 |
| 51 | 44.0 | 33.0 | 49.6 |
| 86 | 59.8 | 51.6 | 77.4 |



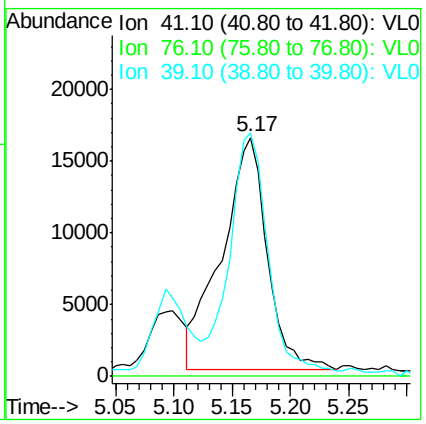


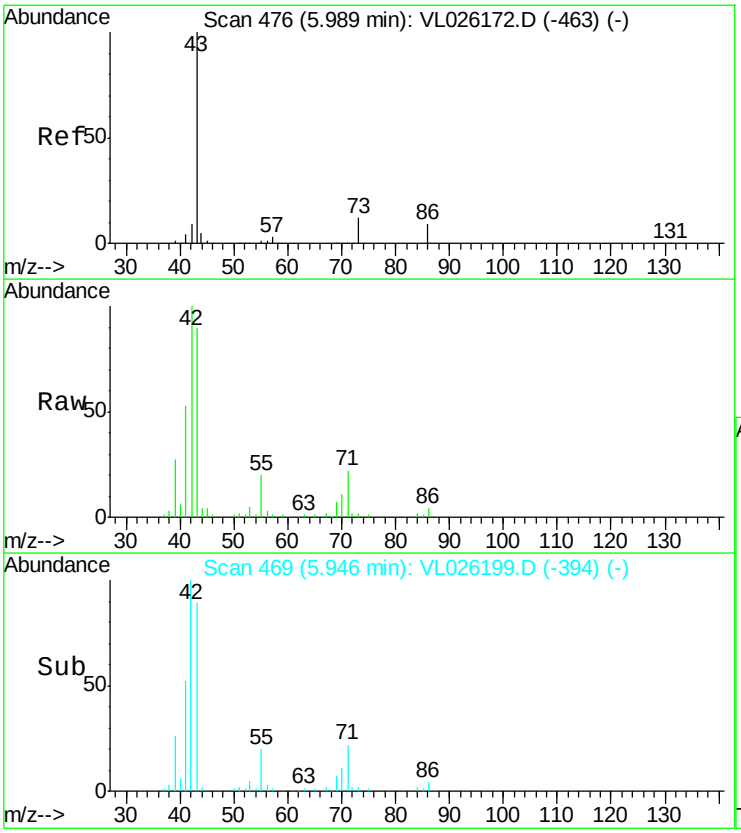

#21
Allvl Chloride
Concen: 1.12 ppbv
RT: 5.17 min Scan# 341
Delta R.T. -0.06 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :** MSVOA_L
**ClientSampleId :**

Tgt Ion: 41 Resp: 44310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 25.4 | 38.2# |
| 39 | 112.1 | 66.5 | 99.7# |

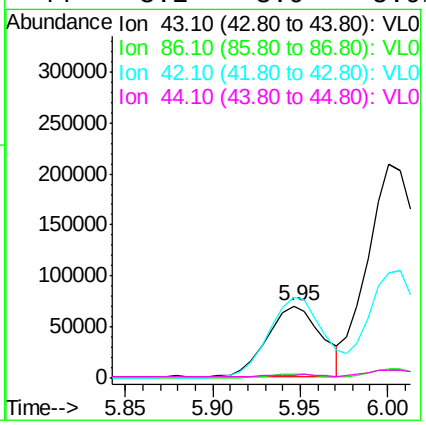


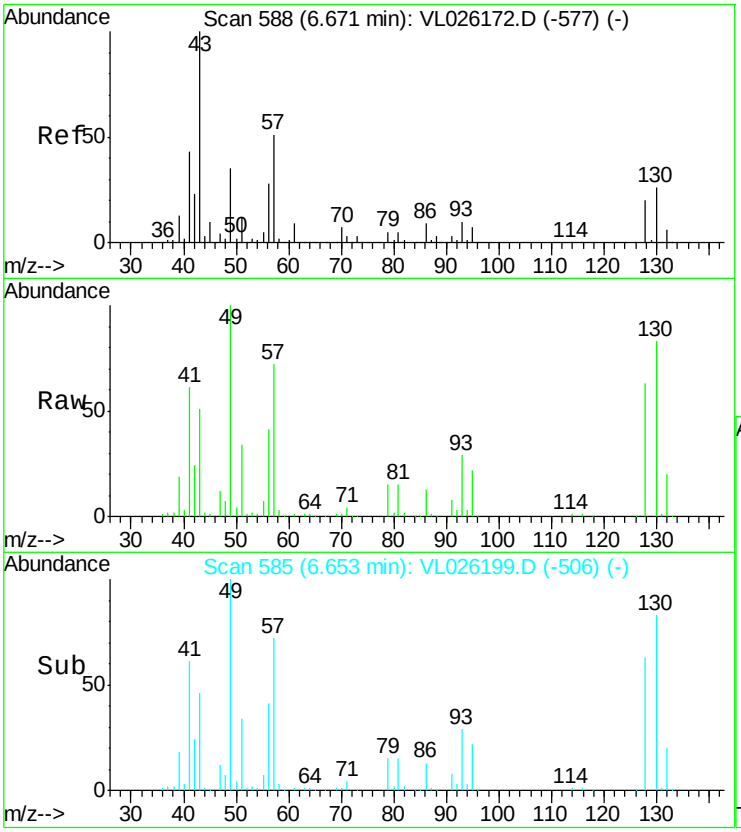




#23
Vinyl Acetate
Concen: 1.40 ppbv
RT: 5.95 min Scan# 469
Delta R.T. -0.04 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 43 Resp: 150390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 4.9 | 7.2 | 10.8# |
| 42 | 113.1 | 7.4 | 11.2# |
| 44 | 3.2 | 3.9 | 5.9# |



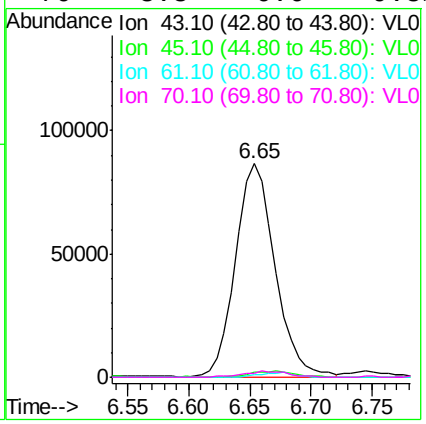


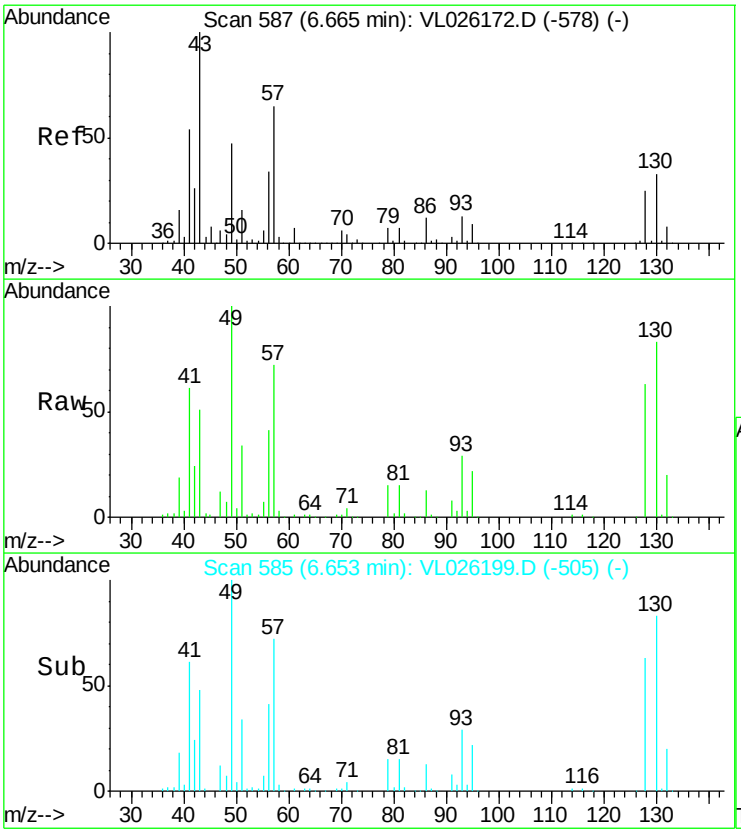

#25
Ethyl Acetate
Concen: 1.66 ppbv
RT: 6.65 min Scan# 585
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 43 Resp: 195303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 3.2 | 7.7 | 11.5# |
| 61 | 1.9 | 7.4 | 11.2# |
| 70 | 3.3 | 6.6 | 9.8# |

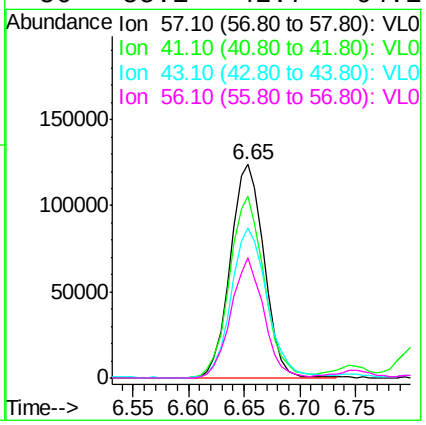


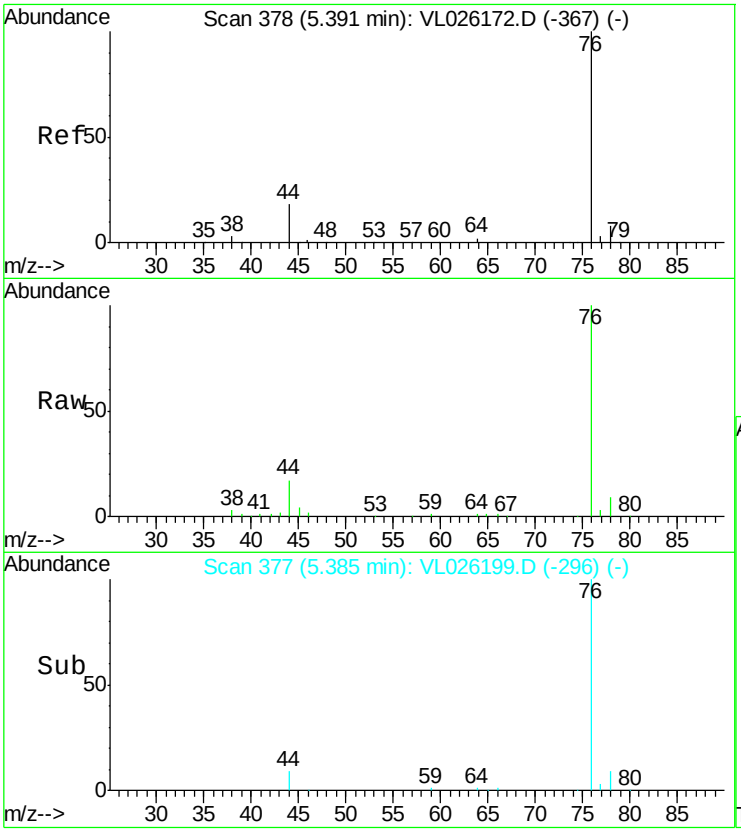




#26
Hexane
Concen: 4.57 ppbv
RT: 6.65 min Scan# 585
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 57 Resp: 260146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 88.2 | 68.0 | 102.0 |
| 43 | 76.5 | 164.4 | 246.6# |
| 56 | 55.1 | 42.7 | 64.1 |



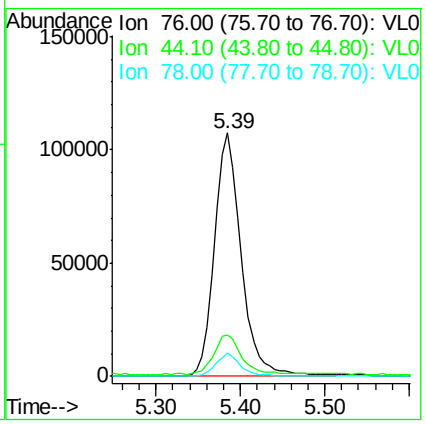


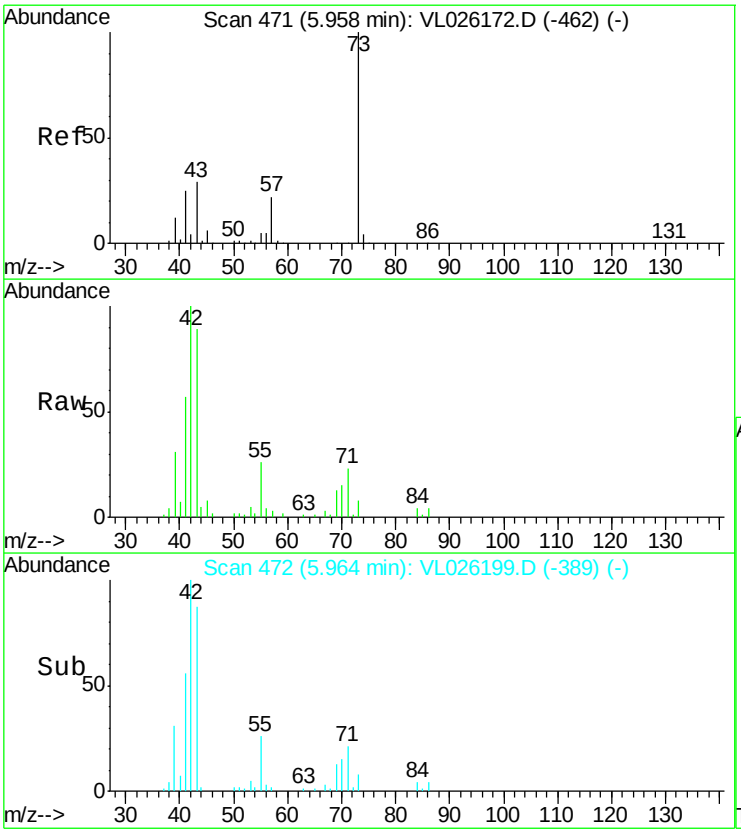

#27
Carbon Disulfide
Concen: 3.47 ppbv
RT: 5.39 min Scan# 377
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 76 Resp: 236754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 16.6 | 14.2 | 21.4 |
| 78 | 8.6 | 7.5 | 11.3 |

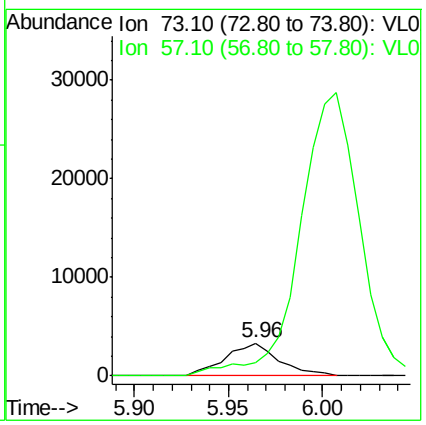


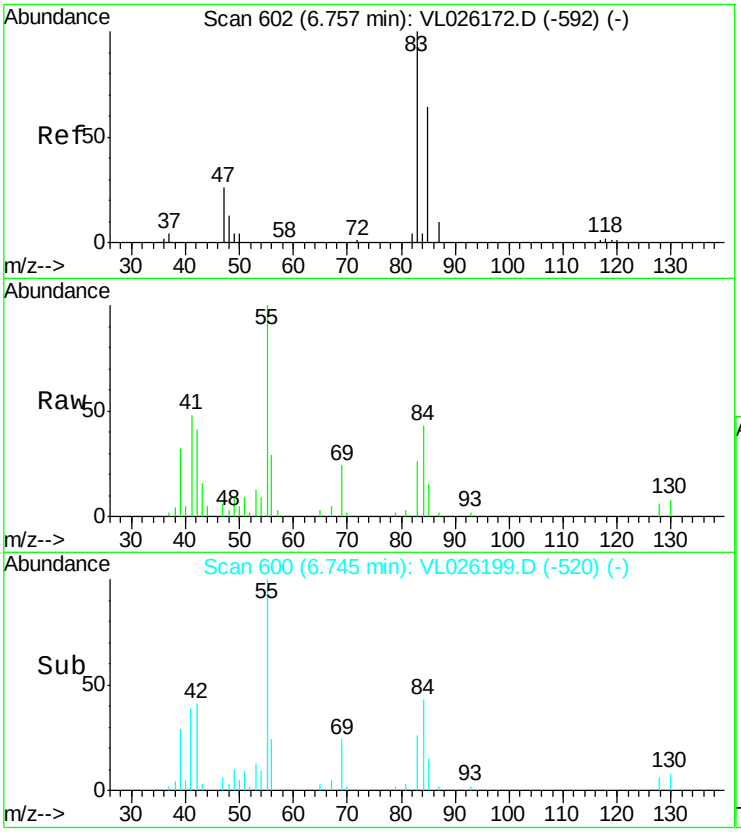




#28
Methyl tert-Butyl Ether
Concen: 0.07 ppbv
RT: 5.96 min Scan# 472
Delta R.T. 0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 73 Resp: 6513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 966.3 | 17.8 | 26.6# |



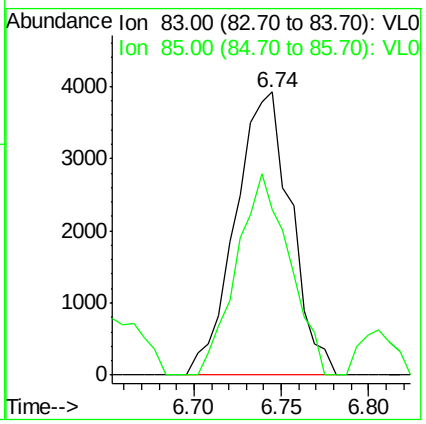


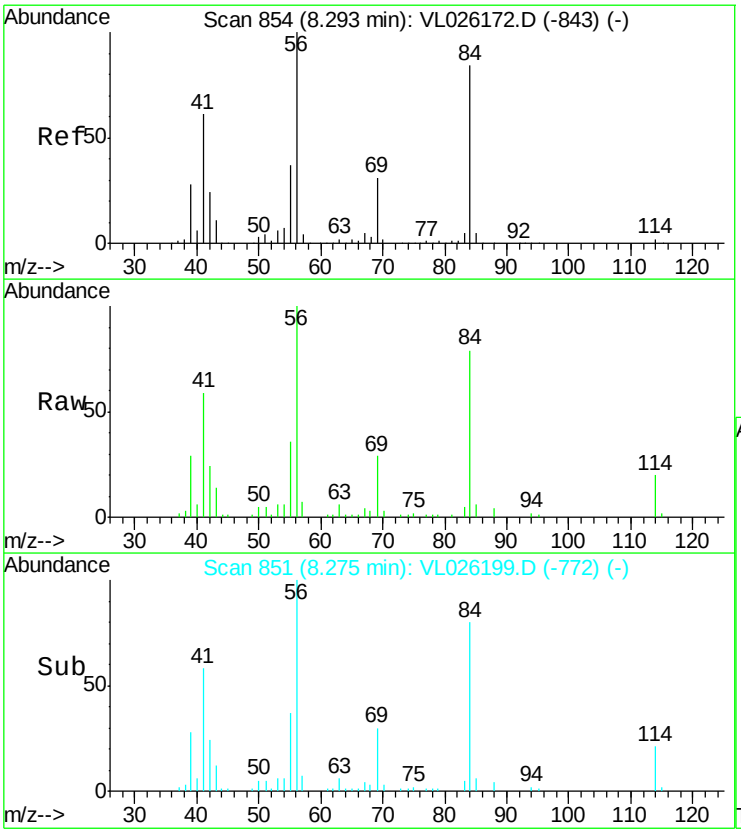

#29
Chloroform
Concen: 0.10 ppbv
RT: 6.74 min Scan# 600
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 83 Resp: 8694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 58.5 | 51.5 | 77.3 |

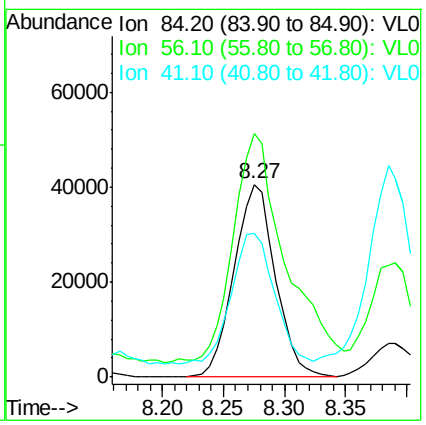


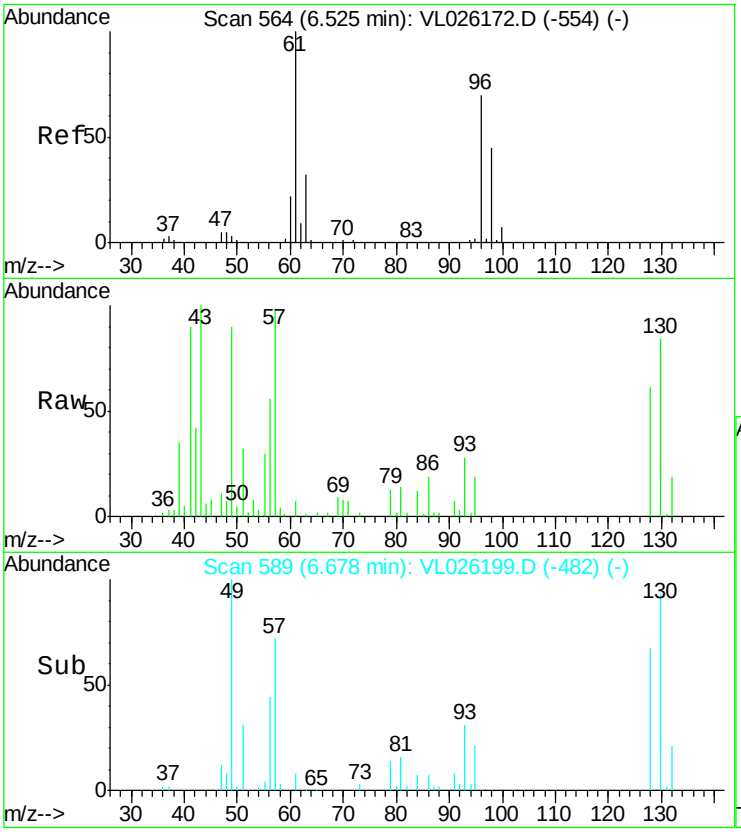




#30
Cyclohexane
Concen: 1.76 ppbv
RT: 8.27 min Scan# 851
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 84 Resp: 95340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 167.5 | 99.8 | 149.8# |
| 41 | 82.3 | 58.1 | 87.1 |



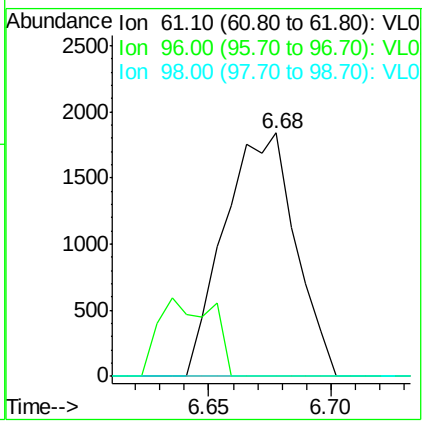


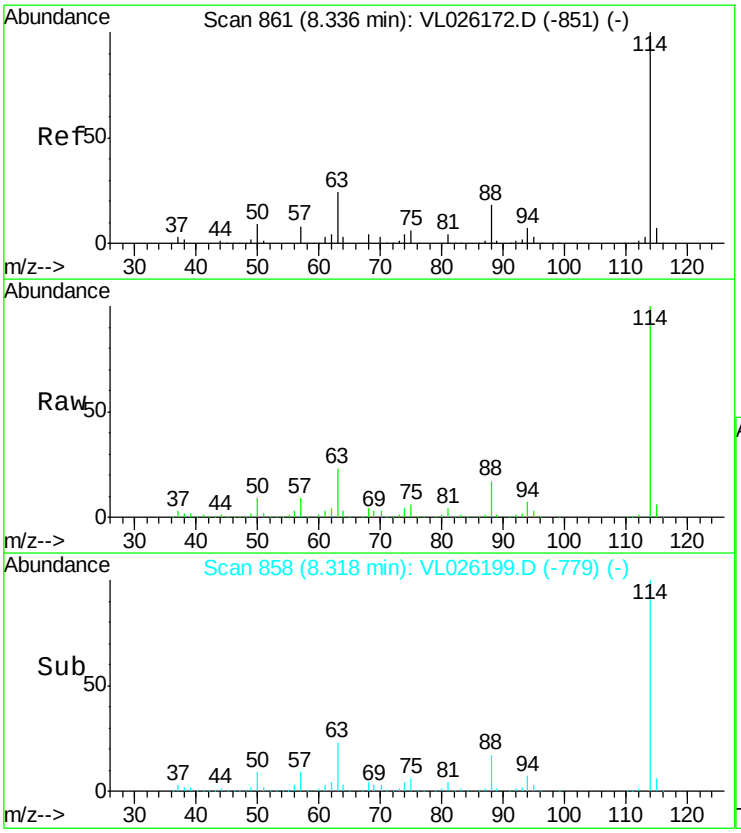

#31
cis-1,2-Dichloroethene
Concen: 0.07 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.15 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 61 Resp: 3715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 0.0 | 55.8 | 83.8# |
| 98 | 0.0 | 35.8 | 53.6# |

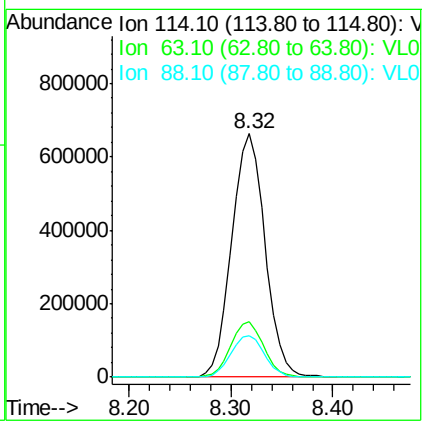


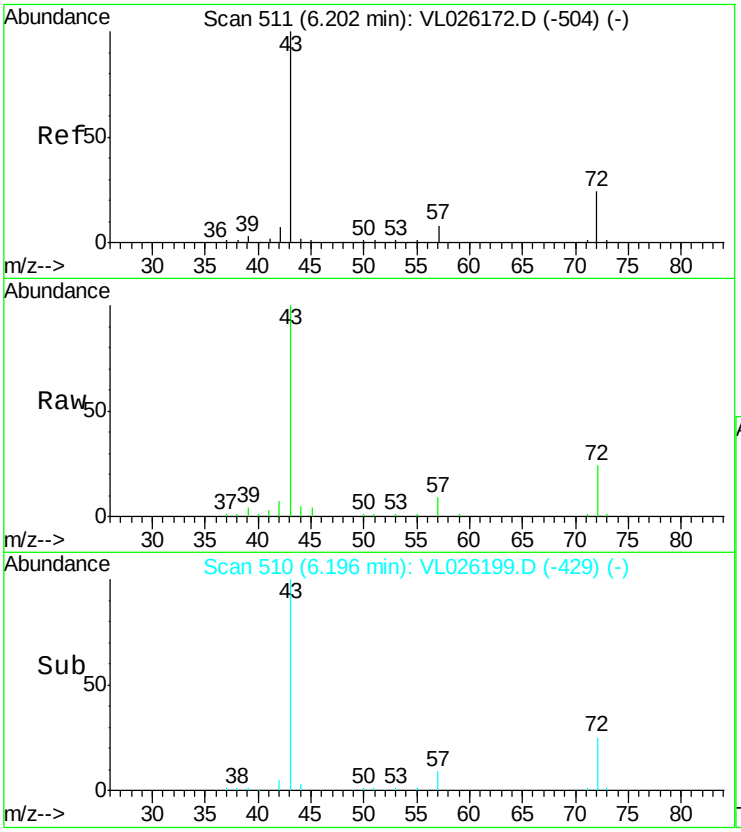




#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.32 min Scan# 858
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:114 Resp: 1506702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.5 | 19.0 | 28.6 |
| 88 | 17.3 | 13.8 | 20.8 |



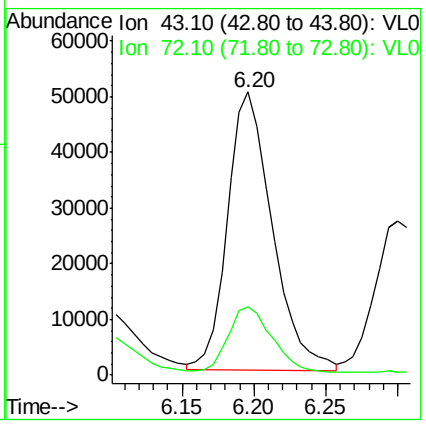


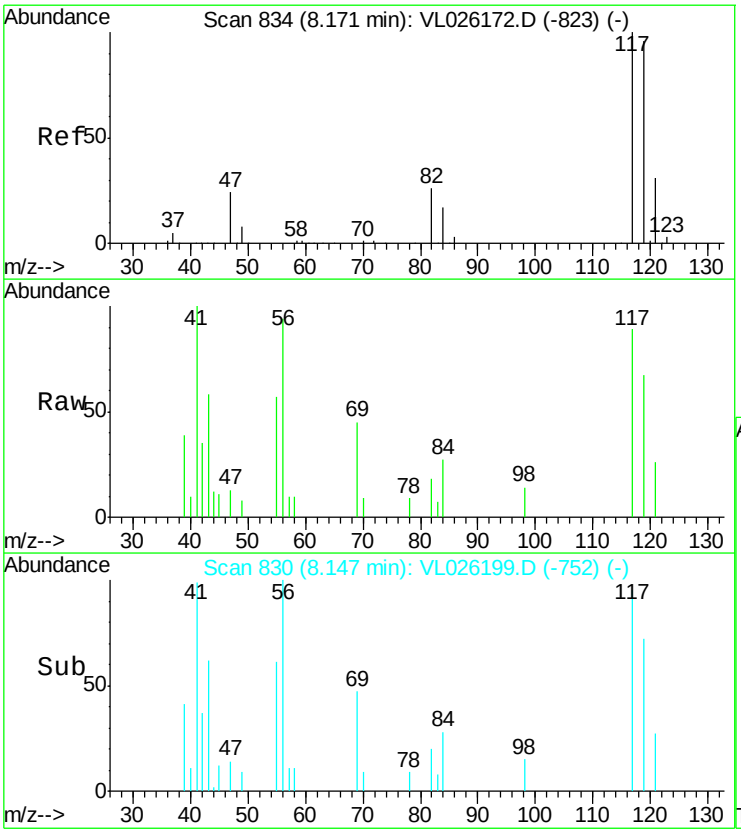

#34
2-Butanone
Concen: 1.29 ppbv
RT: 6.20 min Scan# 510
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 43 Resp: 108143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.1 | 19.6 | 29.4 |

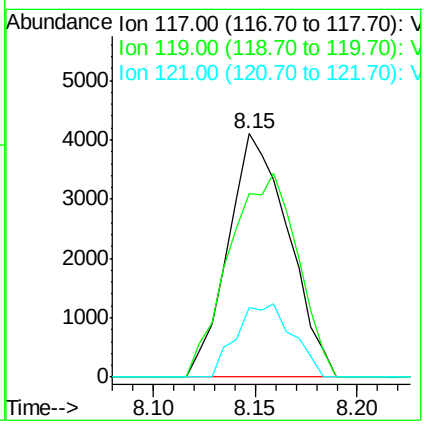


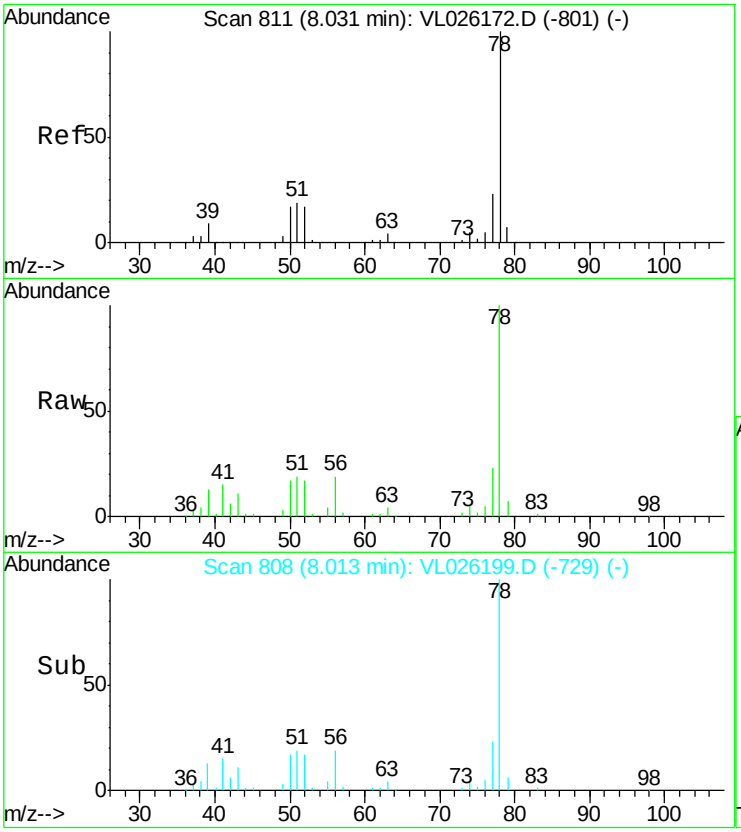




#35
Carbon Tetrachloride
Concen: 0.09 ppbv
RT: 8.15 min Scan# 830
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:117 Resp: 8433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 75.5 | 76.6 | 115.0# |
| 121 | 28.8 | 25.0 | 37.4 |



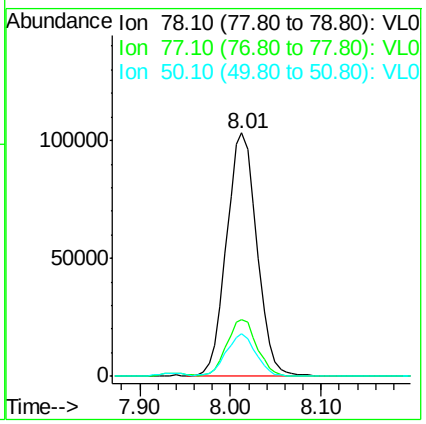


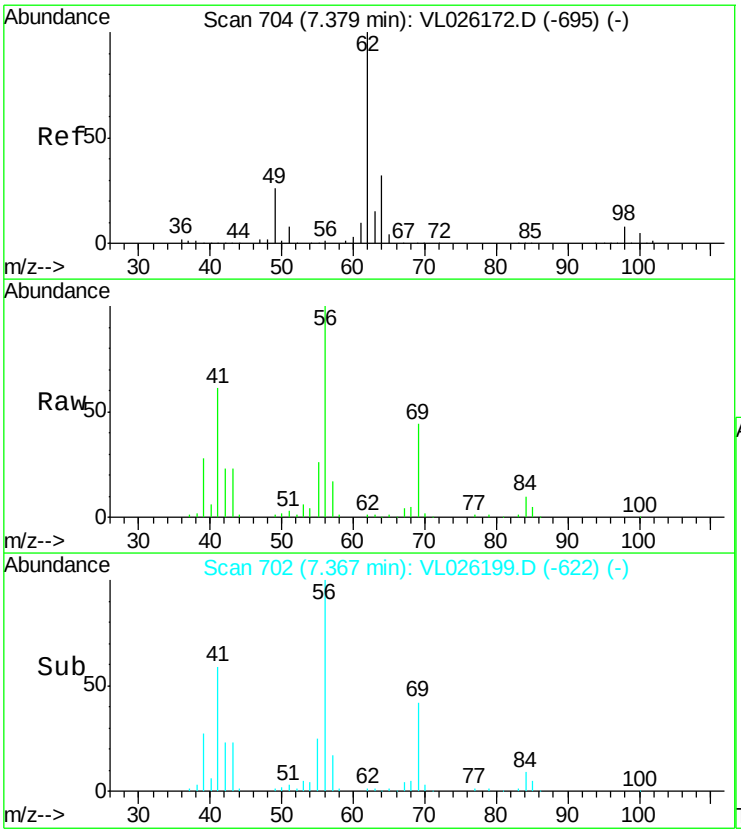

#36
Benzene
Concen: 1.67 ppbv
RT: 8.01 min Scan# 808
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 78 Resp: 240294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.2 | 27.4 |
| 50 | 17.4 | 13.4 | 20.2 |

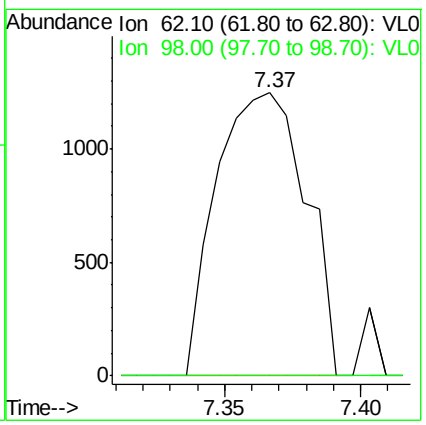


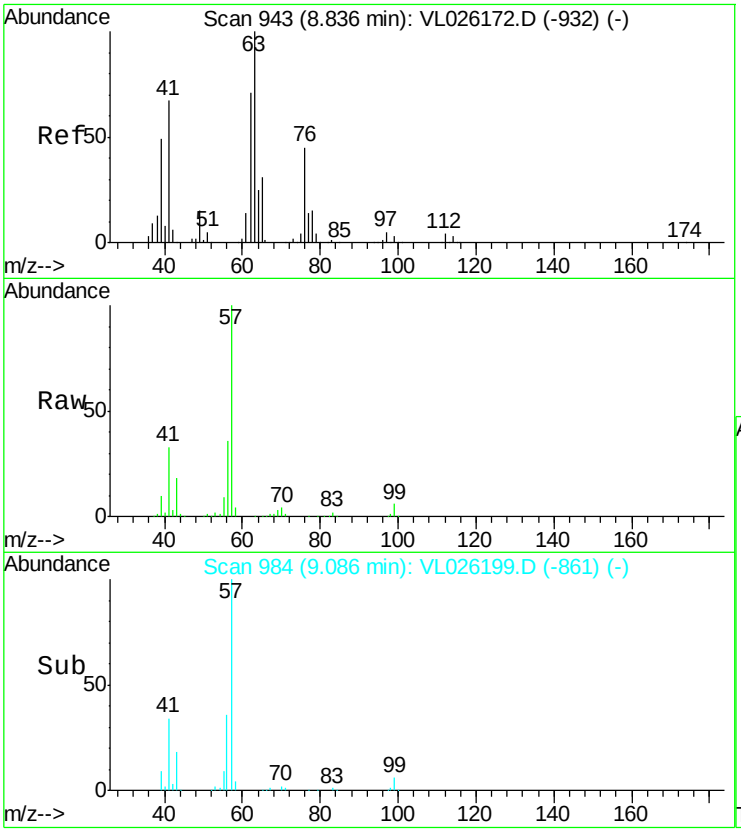




#37
1,2-Dichloroethane
Concen: 0.04 ppbv
RT: 7.37 min Scan# 702
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 62 Resp: 2841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 0.0 | 6.2 | 9.2# |



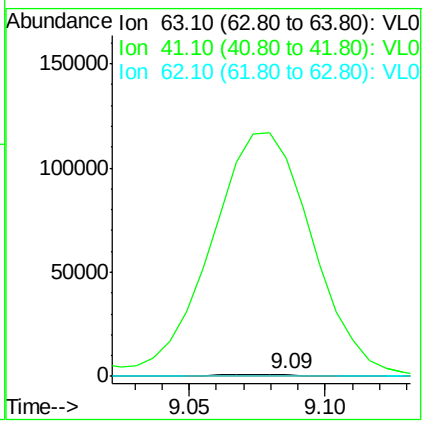


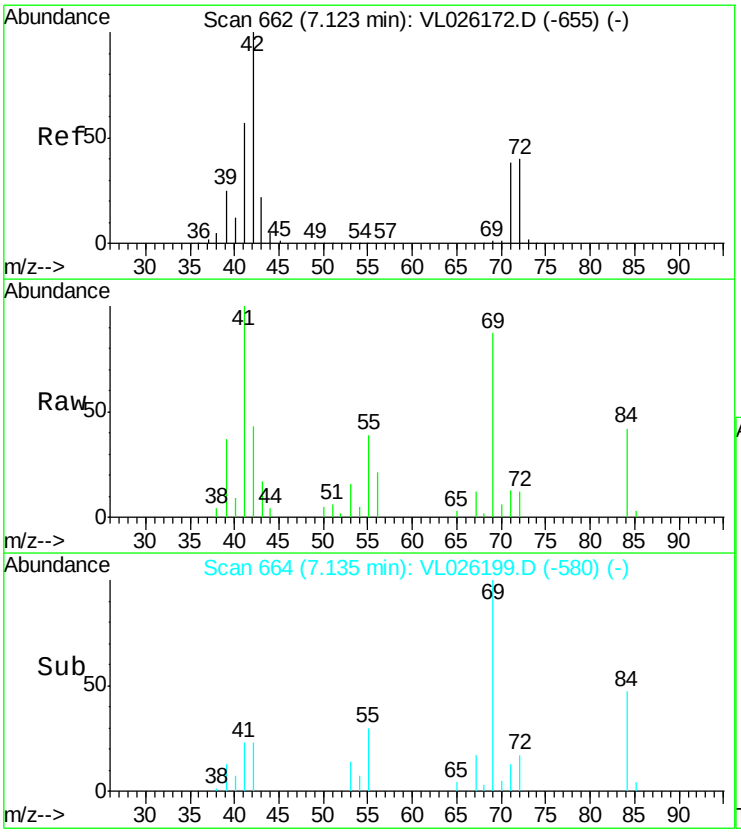

#39
1,2-Dichloropropane
Concen: 0.03 ppbv
RT: 9.09 min Scan# 984
Delta R.T. 0.25 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 63 Resp: 1670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 8456.0 | 53.9 | 80.9# |
| 62 | 0.0 | 57.1 | 85.7# |

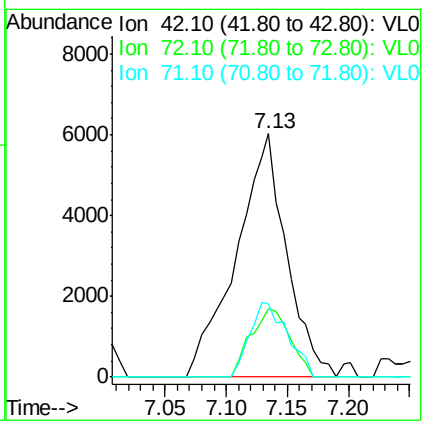


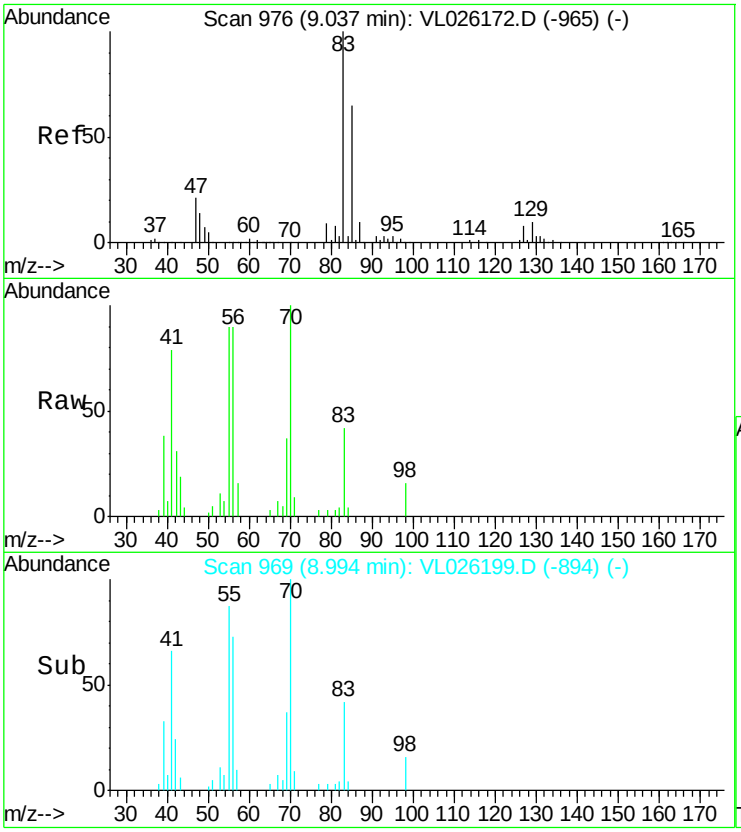




#41
Tetrahydrofuran
Concen: 0.36 ppbv
RT: 7.13 min Scan# 664
Delta R.T. 0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 42 Resp: 17238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 21.8 | 32.4 | 48.6# |
| 71 | 23.1 | 30.2 | 45.4# |



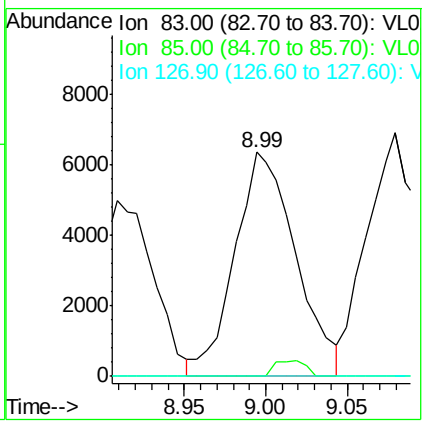


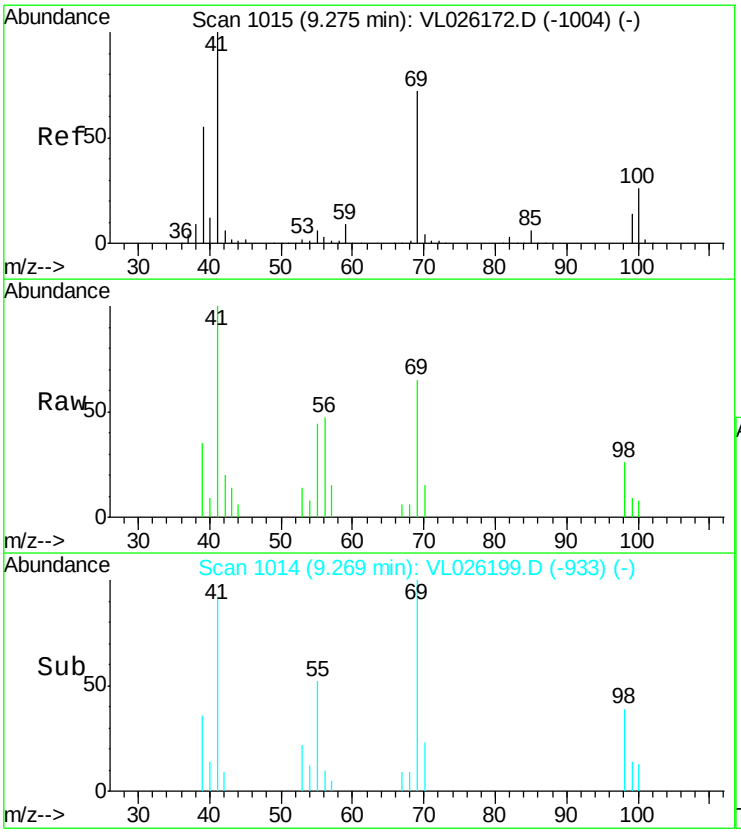

#42
Bromodichloromethane
Concen: 0.16 ppbv
RT: 8.99 min Scan# 969
Delta R.T. -0.04 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 83 Resp: 16521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 0.0 | 51.9 | 77.9# |
| 127 | 0.0 | 6.2 | 9.4# |

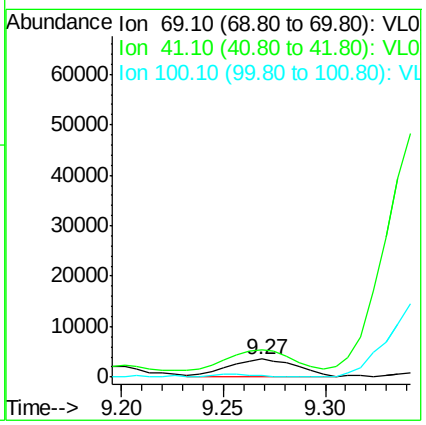


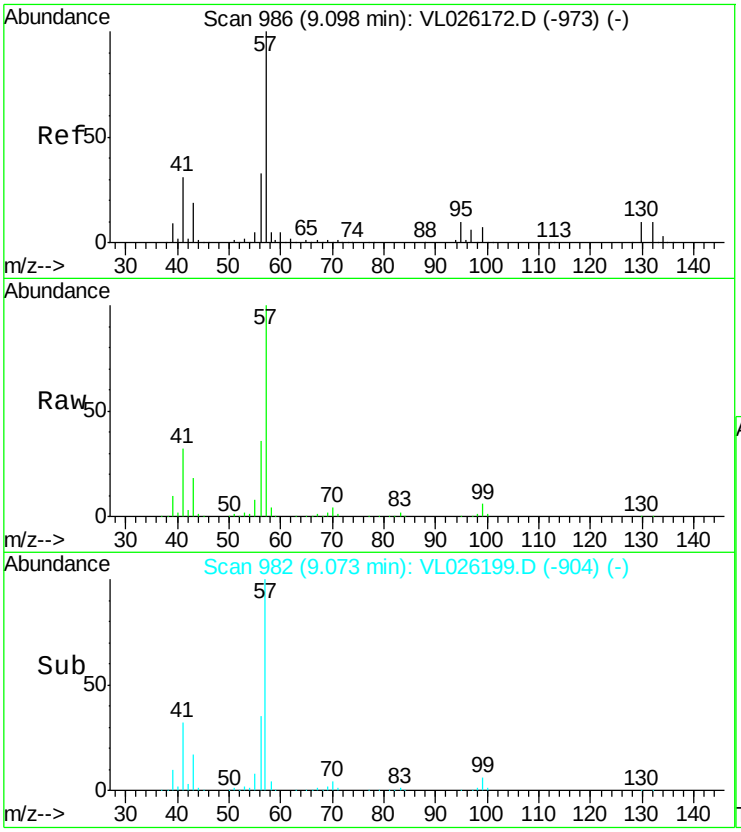




#43
Methyl Methacrylate
Concen: 0.16 ppbv
RT: 9.27 min Scan# 1014
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 69 Resp: 8353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 0.0 | 111.5 | 167.3# |
| 100 | 12.0 | 28.4 | 42.6# |



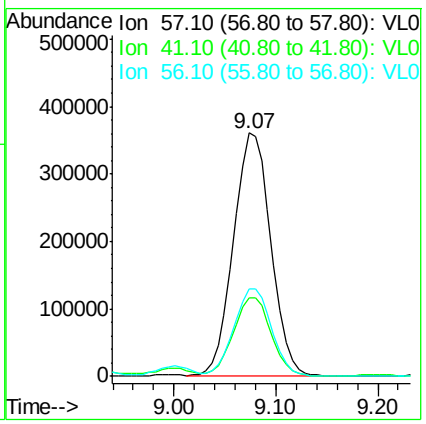


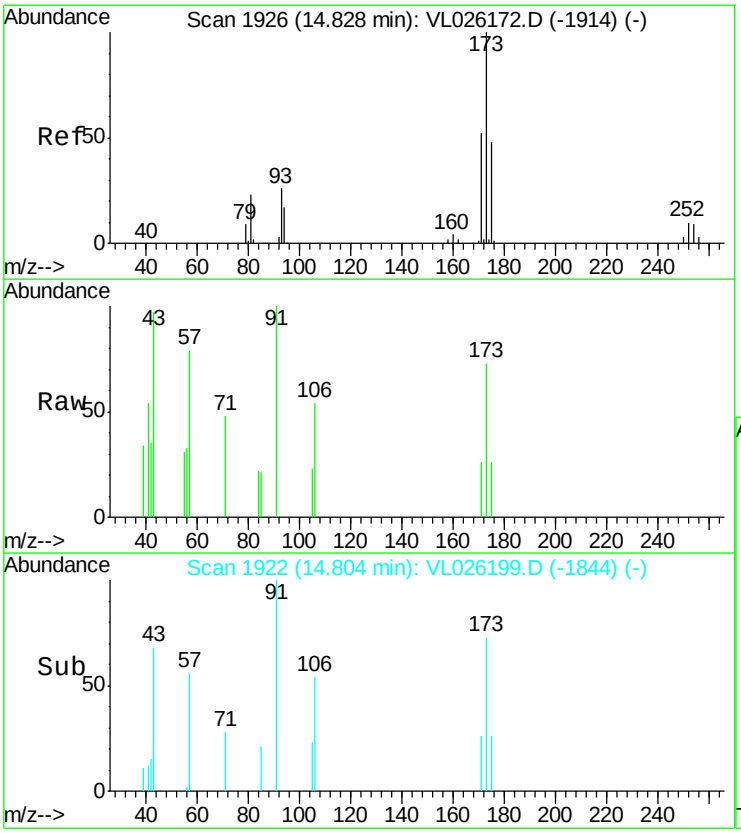

#44
2,2,4-Trimethylpentane
Concen: 3.81 ppbv
RT: 9.07 min Scan# 982
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :** MSVOA_L
**ClientSampleId :**

Tgt Ion: 57 Resp: 913009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.7 | 23.7 | 35.5# |
| 56 | 40.2 | 26.4 | 39.6# |

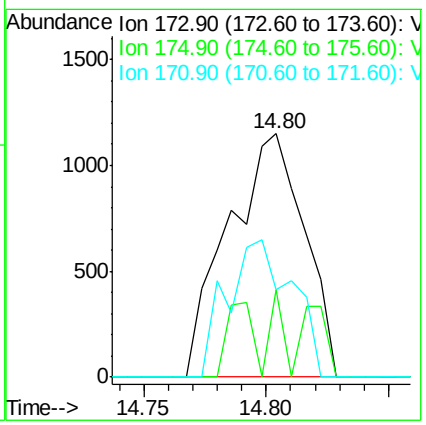


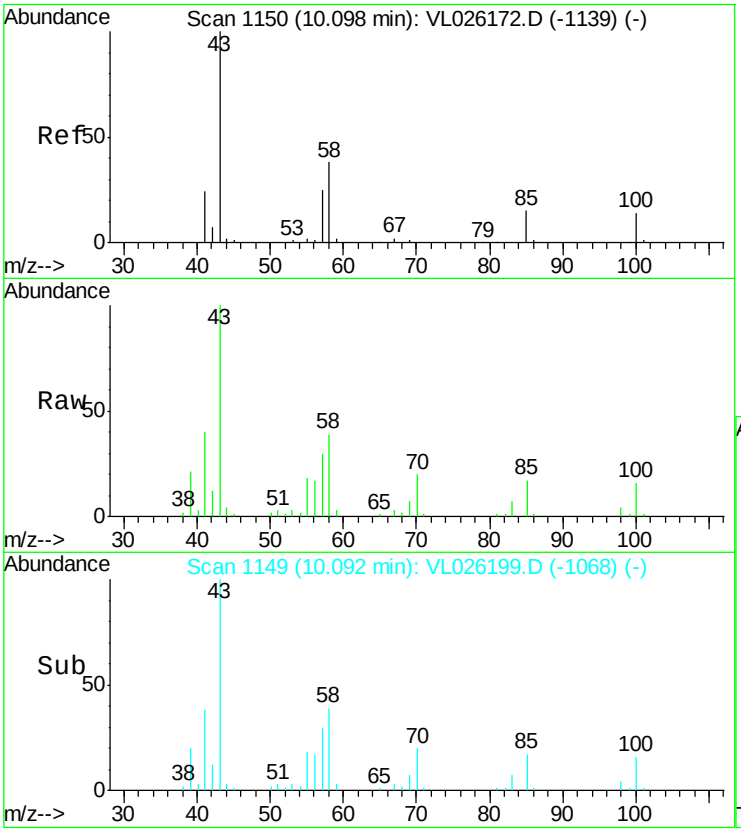




#49
Bromoform
Concen: 0.04 ppbv
RT: 14.80 min Scan# 1922
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:173 Resp: 2483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 26.3 | 39.0 | 58.6# |
| 171 | 48.0 | 41.9 | 62.9 |



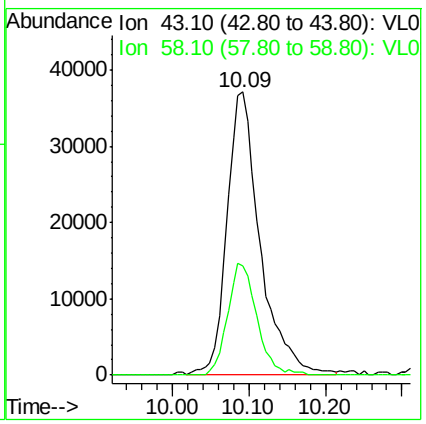


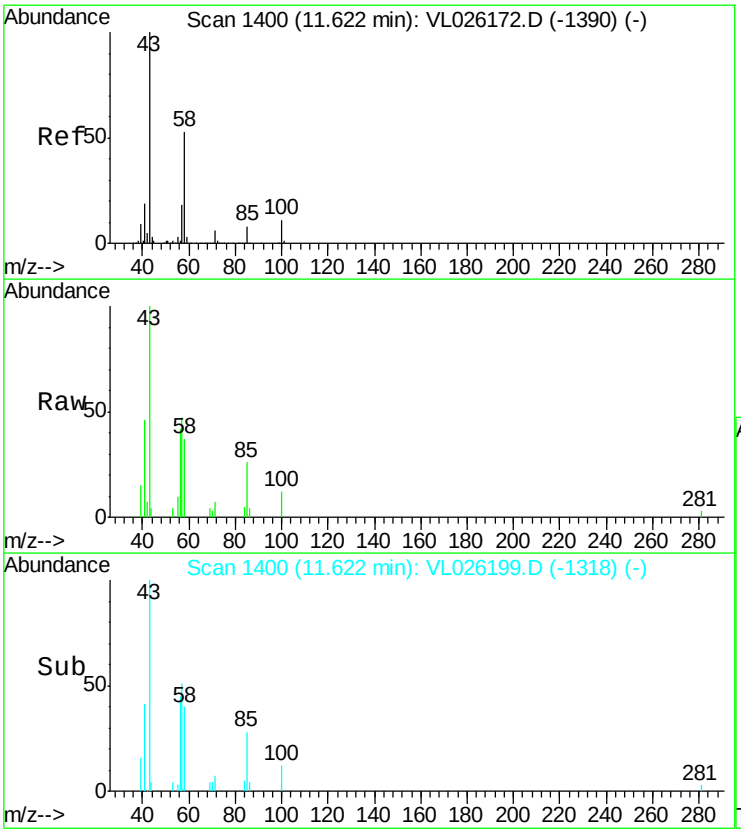

#50
4-Methyl-2-Pentanone
Concen: 1.00 ppbv
RT: 10.09 min Scan# 1149
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 43 Resp: 111447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.6 | 30.4 | 45.6 |

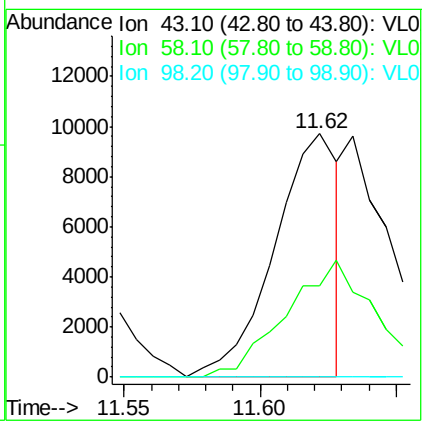


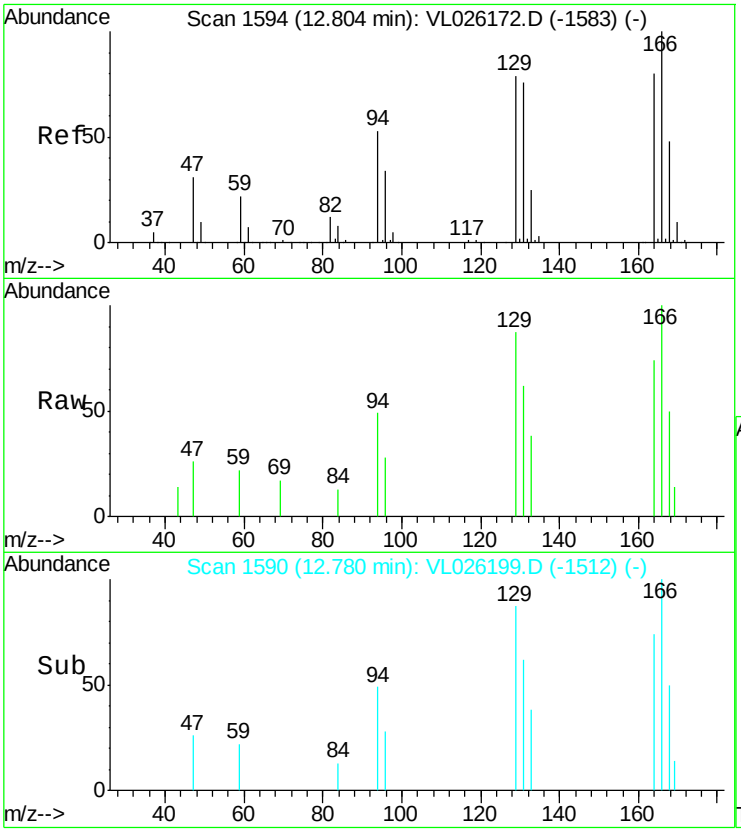




#51
2-Hexanone
Concen: 0.16 ppbv
RT: 11.62 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 43 Resp: 15913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 42.2 | 63.4# |
| 98 | 0.0 | 0.2 | 0.2# |



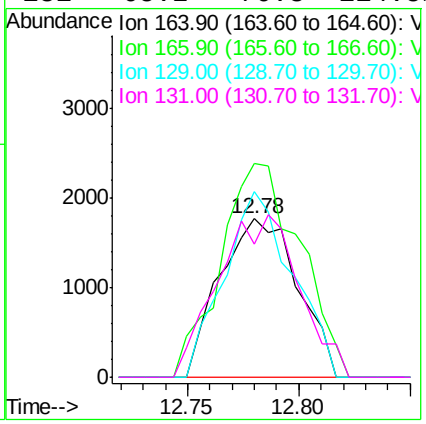


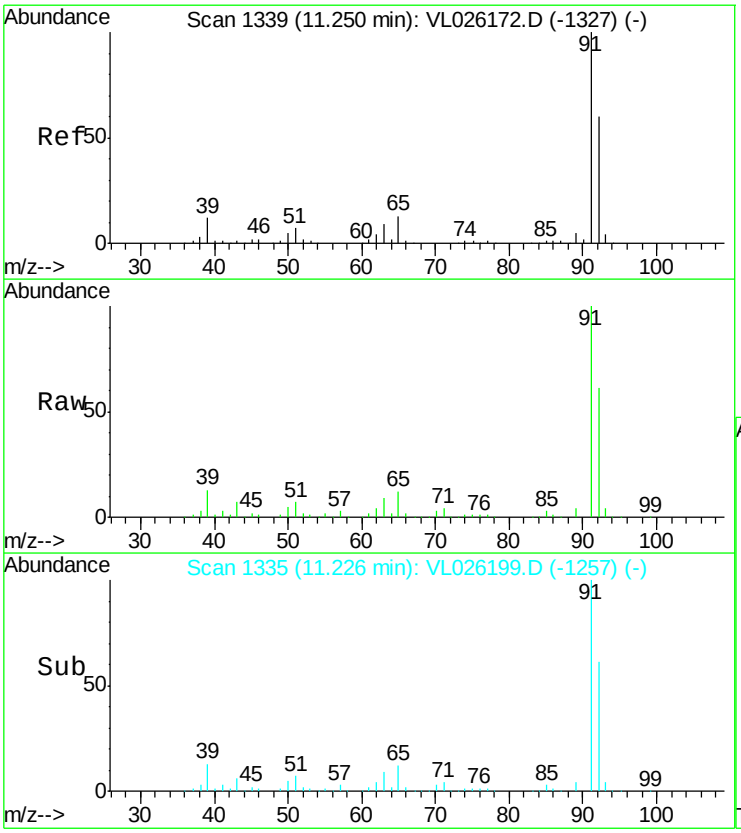

#52
Tetrachloroethene
Concen: 0.06 ppbv
RT: 12.78 min Scan# 1590
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:164 Resp: 4317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 114.7 | 99.9 | 149.9 |
| 129 | 117.3 | 79.1 | 118.7 |
| 131 | 65.2 | 76.3 | 114.5# |

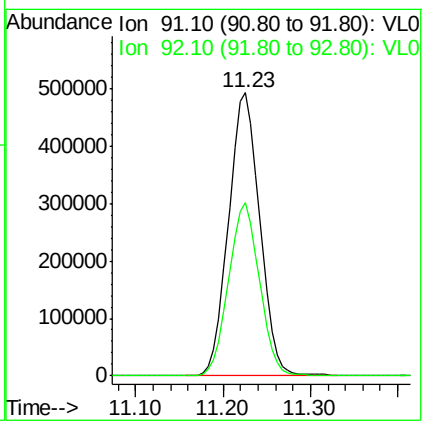


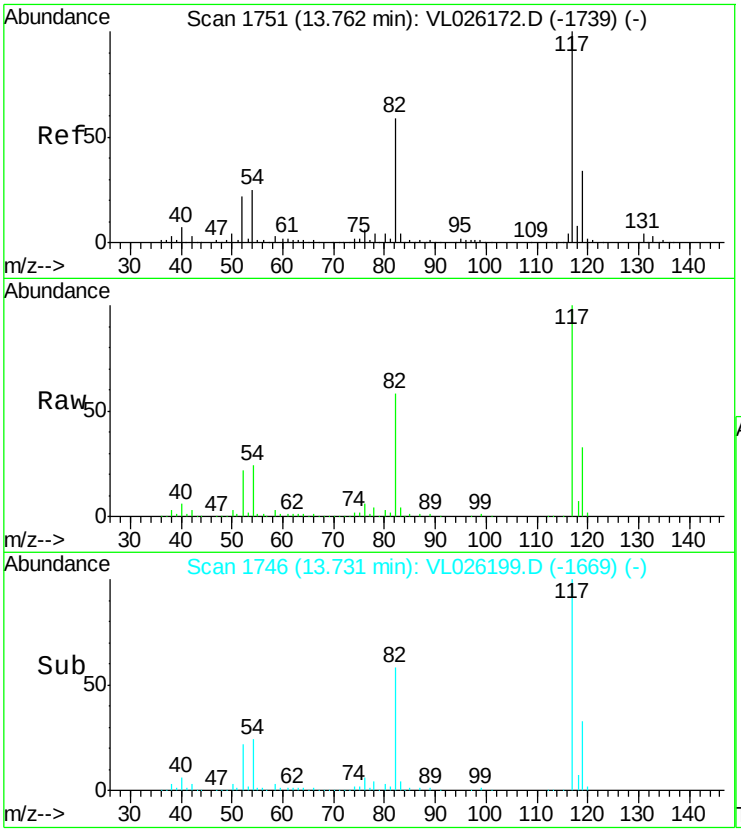




#53
Toluene
Concen: 6.60 ppbv
RT: 11.23 min Scan# 1335
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 91 Resp: 1226523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.9 | 48.5 | 72.7 |



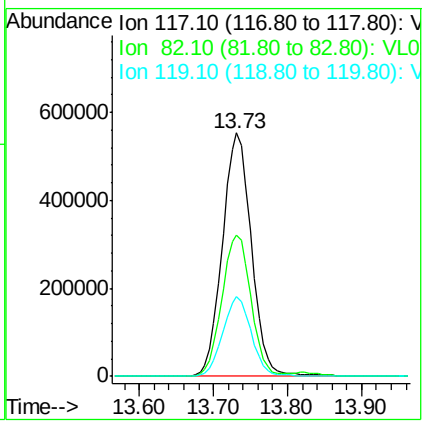


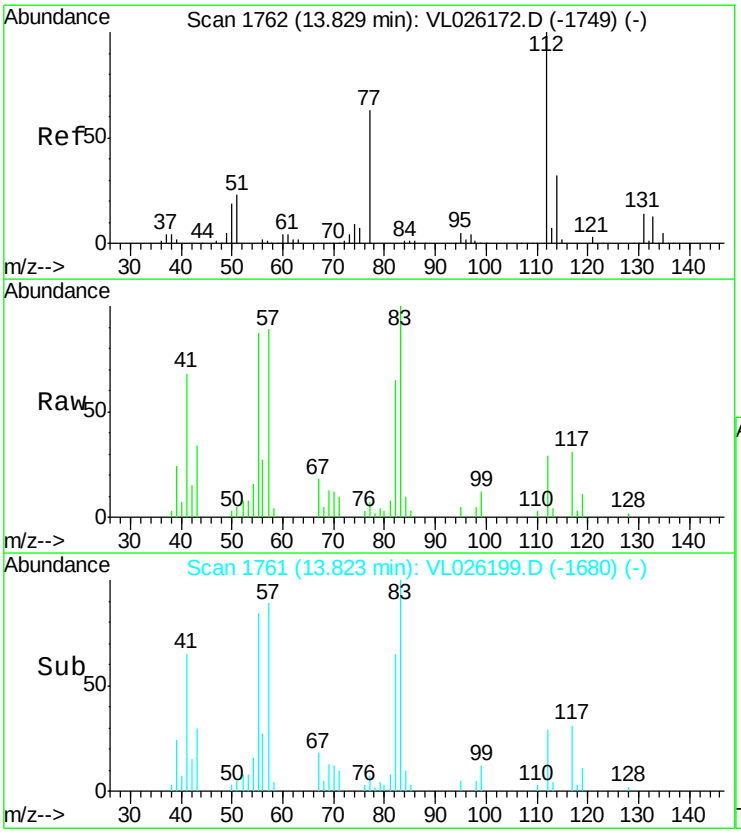

#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.73 min Scan# 1746
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:117 Resp: 1505524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.3 | 47.7 | 71.5 |
| 119 | 32.4 | 43.7 | 65.5# |

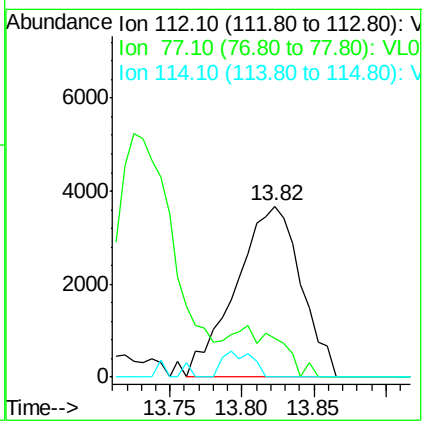


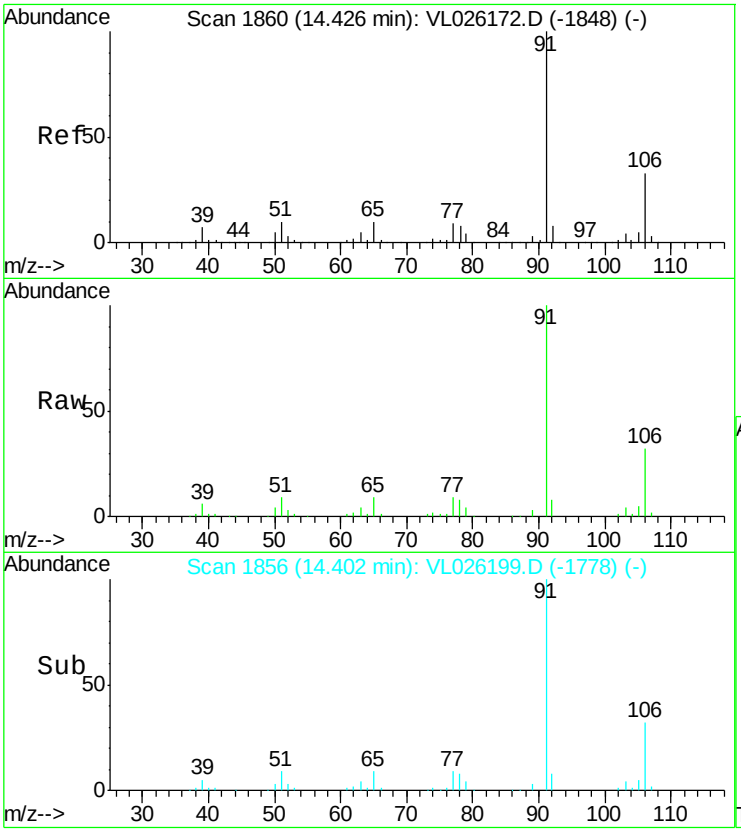




#57
Chlorobenzene
Concen: 0.08 ppbv
RT: 13.82 min Scan# 1761
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:112 Resp: 11516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 23.0 | 51.0 | 76.4# |
| 114 | 0.0 | 29.0 | 35.4# |



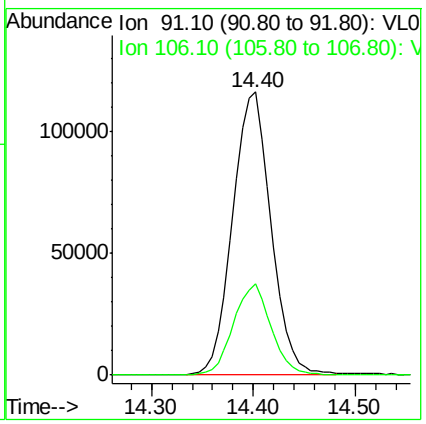


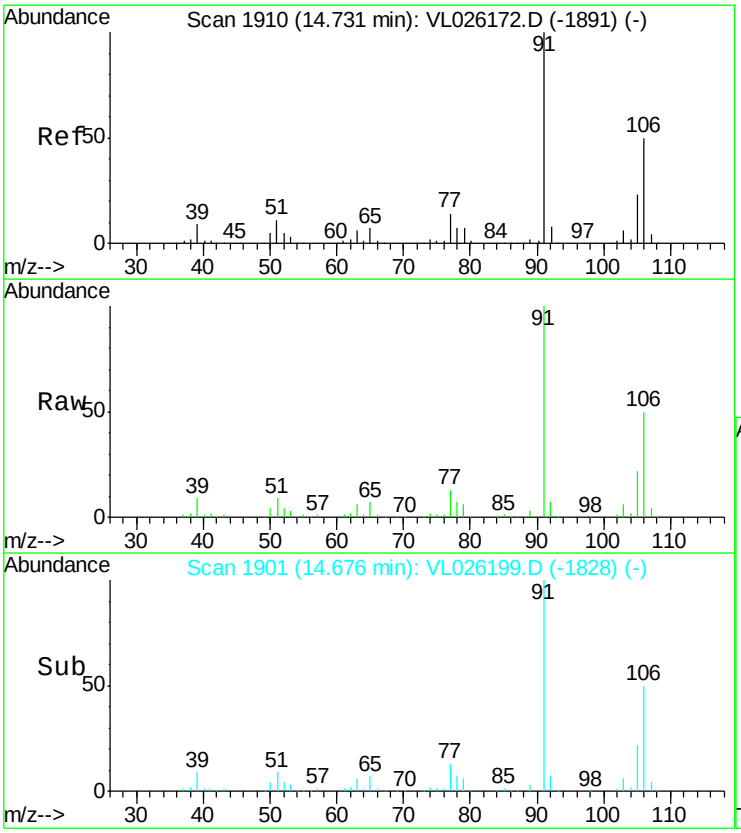

#58
Ethyl Benzene
Concen: 1.39 ppbv
RT: 14.40 min Scan# 1856
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 91 Resp: 303856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 26.1 | 39.1 |

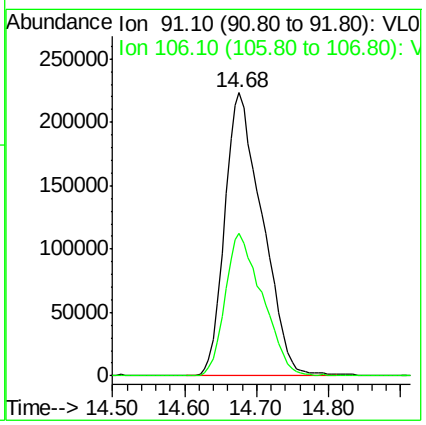


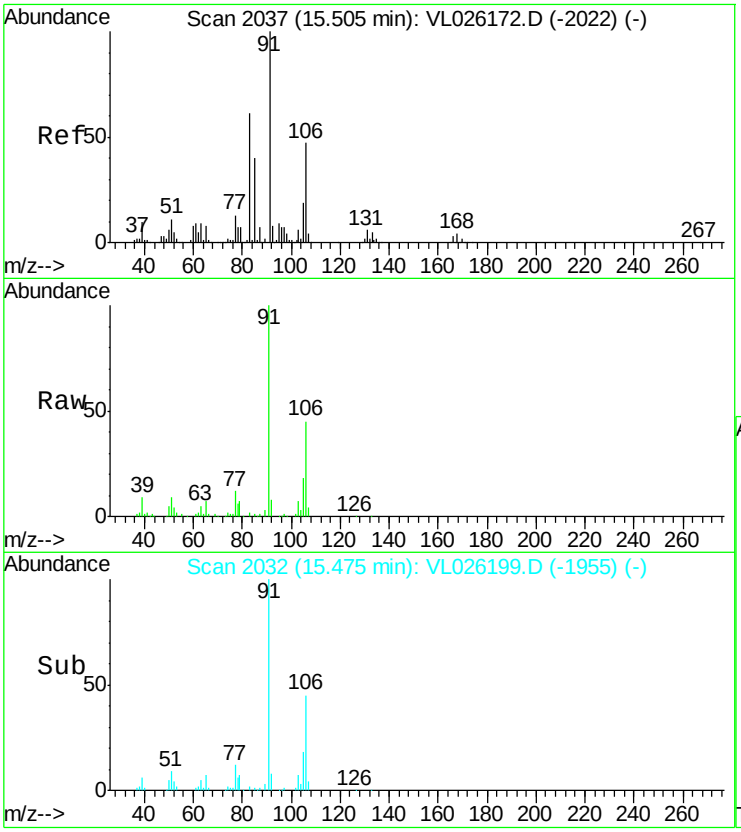




#59
m/p-Xylene
Concen: 4.62 ppbv
RT: 14.68 min Scan# 1901
Delta R.T. -0.05 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 91 Resp: 811294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.2 | 40.2 | 60.4 |



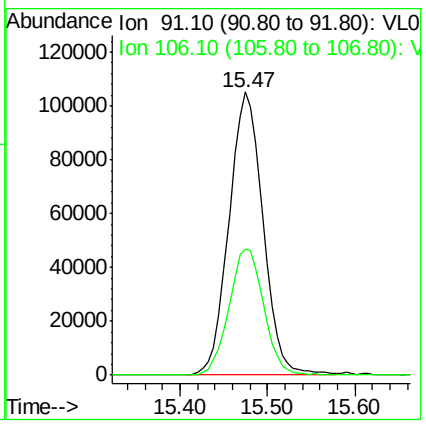


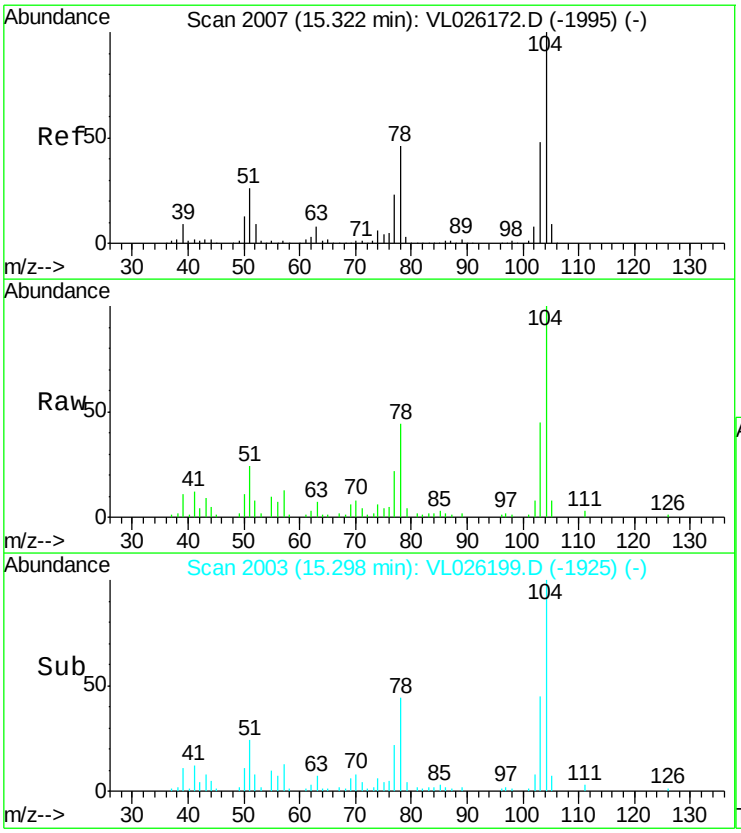

#60
o-Xylene
Concen: 1.55 ppbv
RT: 15.47 min Scan# 2032
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 91 Resp: 284394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.5 | 23.4 | 70.3 |

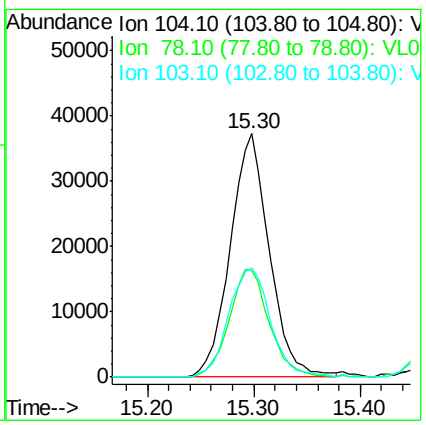


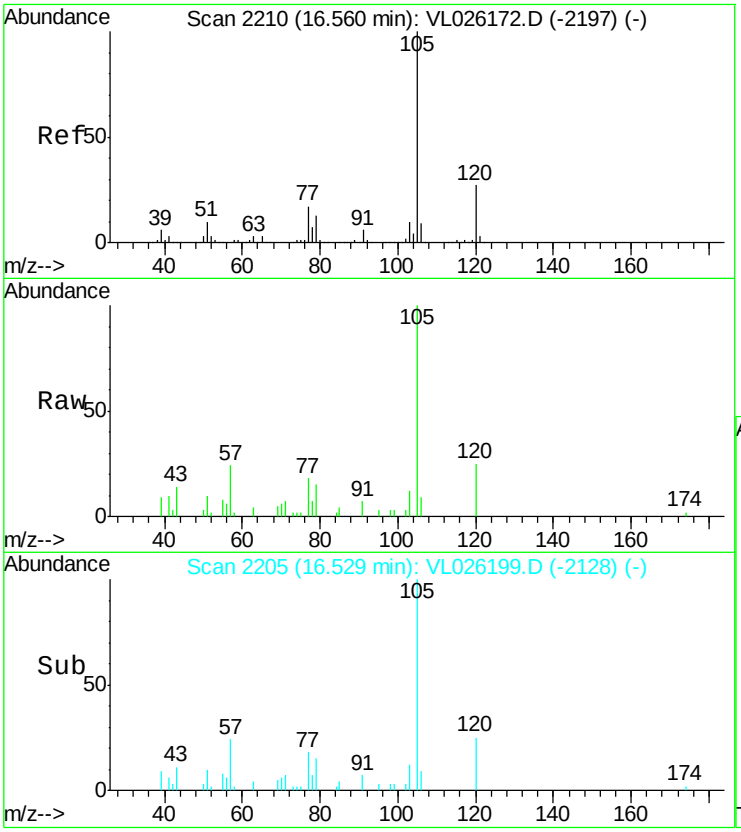




#61
Styrene
Concen: 1.28 ppbv
RT: 15.30 min Scan# 2003
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:104 Resp: 96044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.5 | 36.1 | 54.1 |
| 103 | 47.7 | 37.5 | 56.3 |



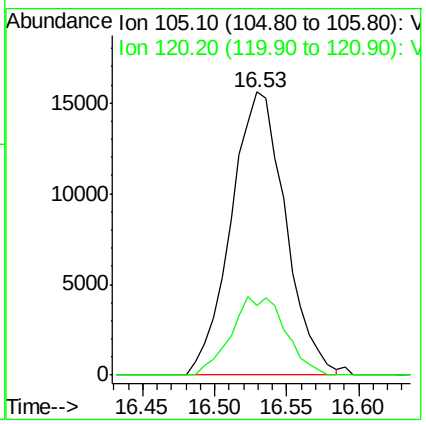


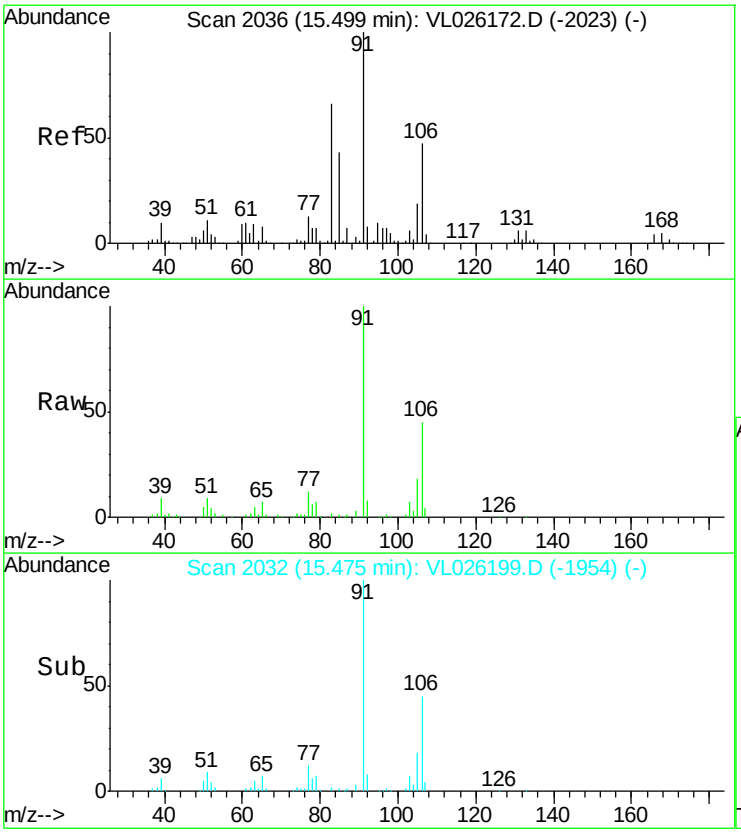

#62
Isopropylbenzene
Concen: 0.17 ppbv
RT: 16.53 min Scan# 2205
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:105 Resp: 40984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.5 | 21.8 | 32.6 |

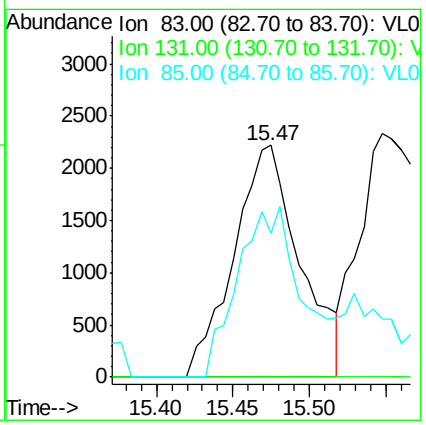


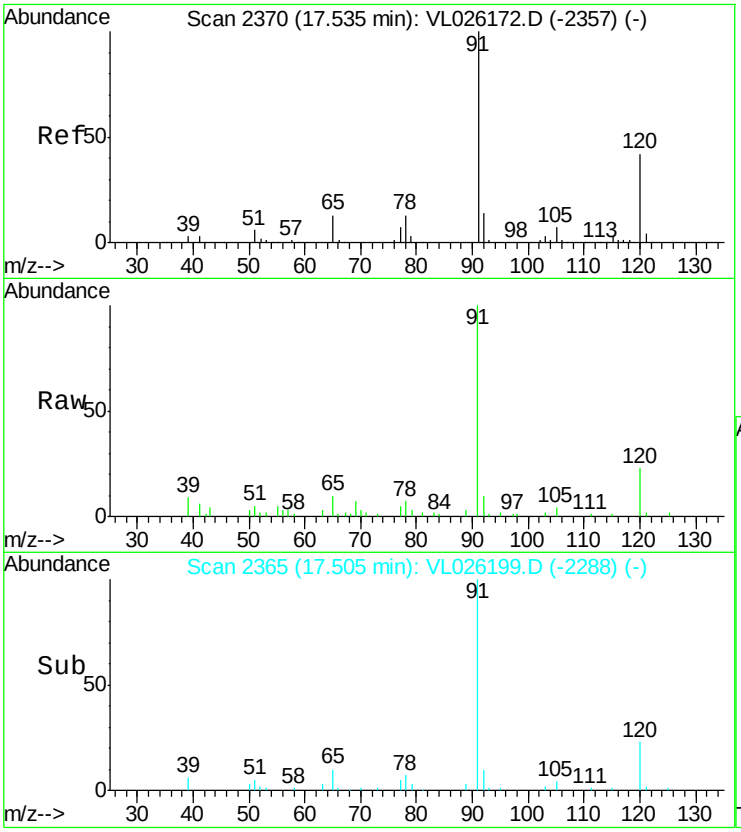




#63
1,1,2,2-Tetrachloroethane
Concen: 0.05 ppbv
RT: 15.47 min Scan# 2032
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 83 Resp: 6698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 0.0 | 4.5 | 13.7# |
| 85 | 96.4 | 32.6 | 97.7 |



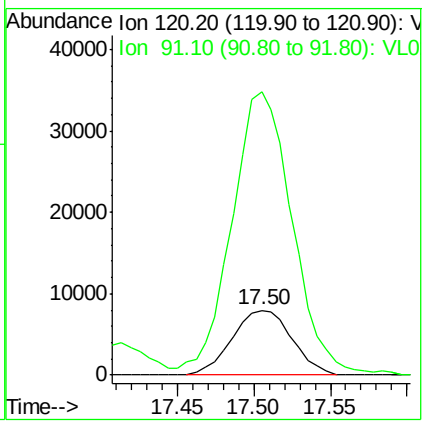


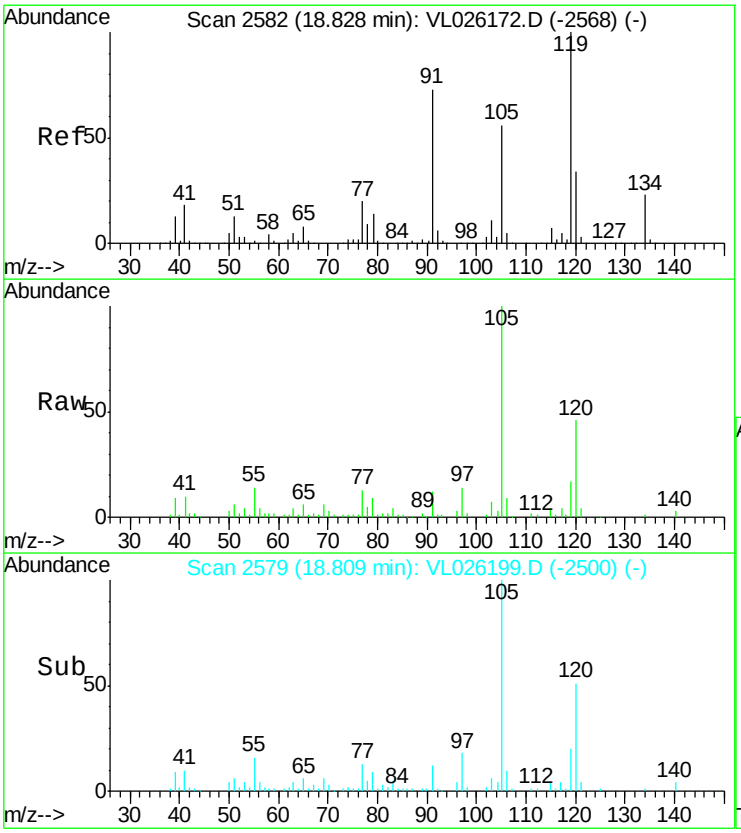

#64
n-propylbenzene
Concen: 0.33 ppbv
RT: 17.50 min Scan# 2365
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:120 Resp: 21683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 447.5 | 353.4 | 530.2 |

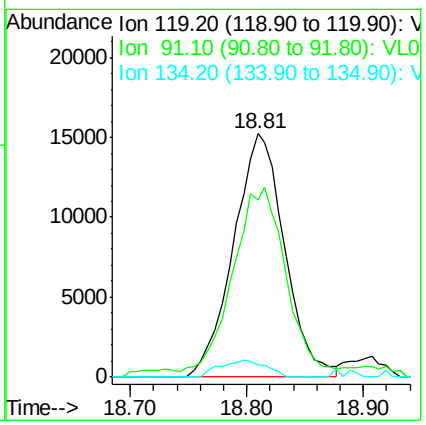


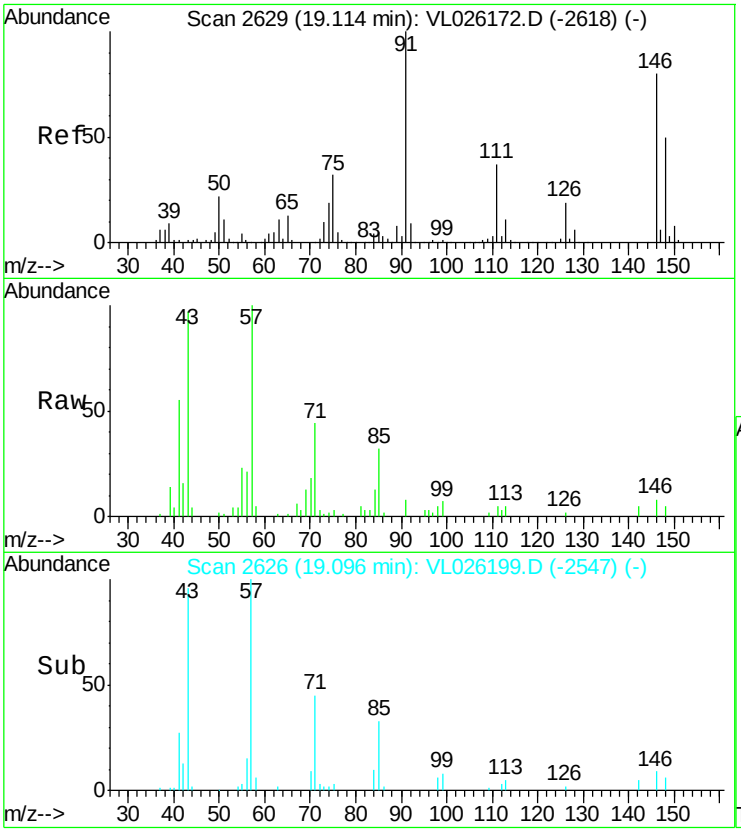




#65
tert-Butylbenzene
Concen: 0.22 ppbv
RT: 18.81 min Scan# 2579
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:119 Resp: 46486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 88.5 | 58.5 | 87.7# |
| 134 | 6.3 | 18.0 | 27.0# |



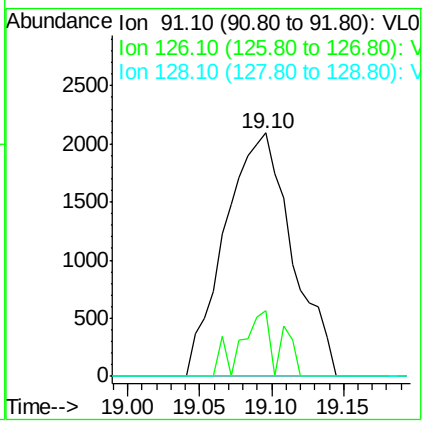


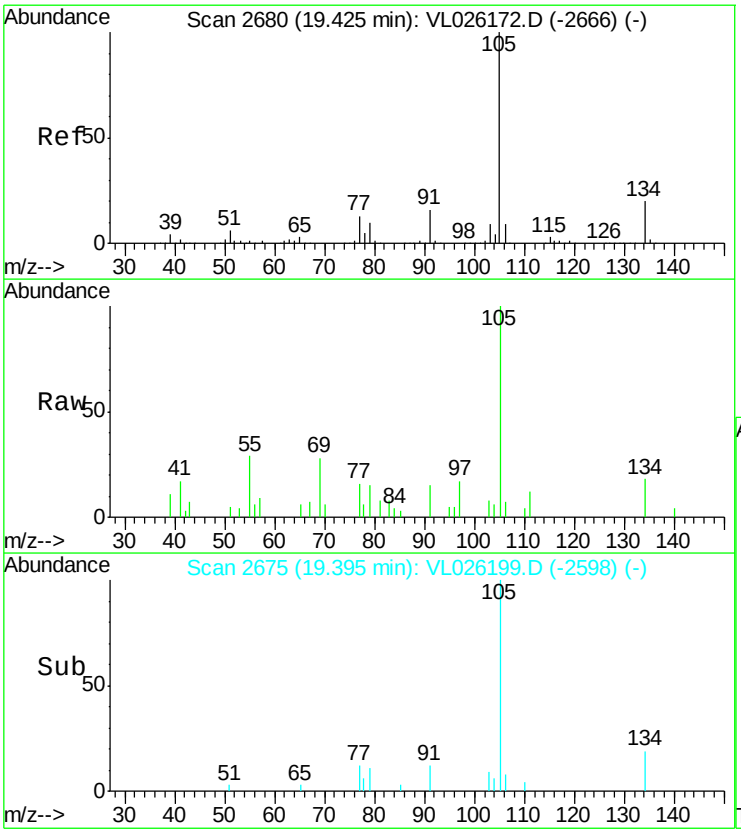

#66
Benzyl Chloride
Concen: 0.11 ppbv
RT: 19.10 min Scan# 2626
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 91 Resp: 6787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.1 | 15.2 | 22.8# |
| 128 | 0.0 | 4.8 | 7.2# |

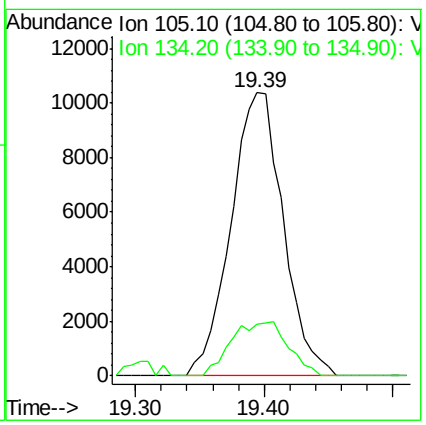


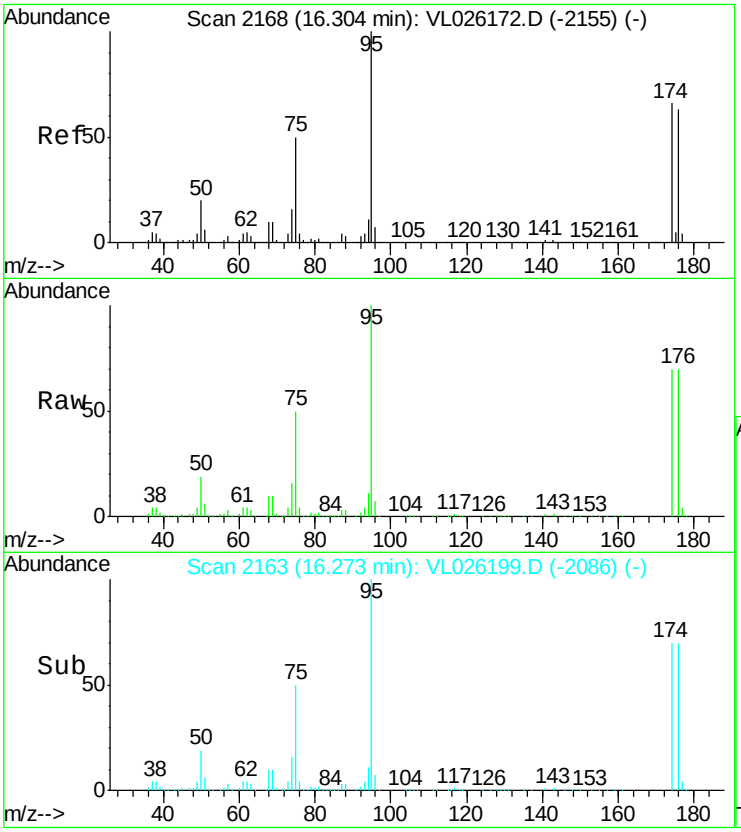




#67
sec-Butylbenzene
Concen: 0.10 ppbv
RT: 19.39 min Scan# 2675
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:105 Resp: 29234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.8 | 15.9 | 23.9 |



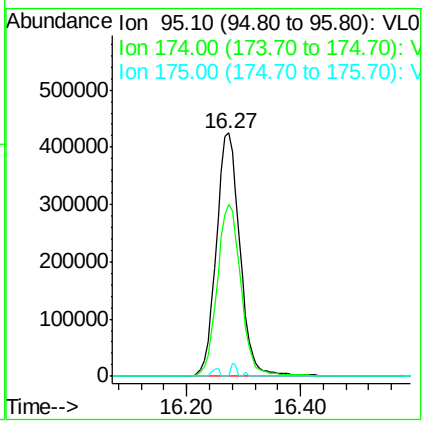


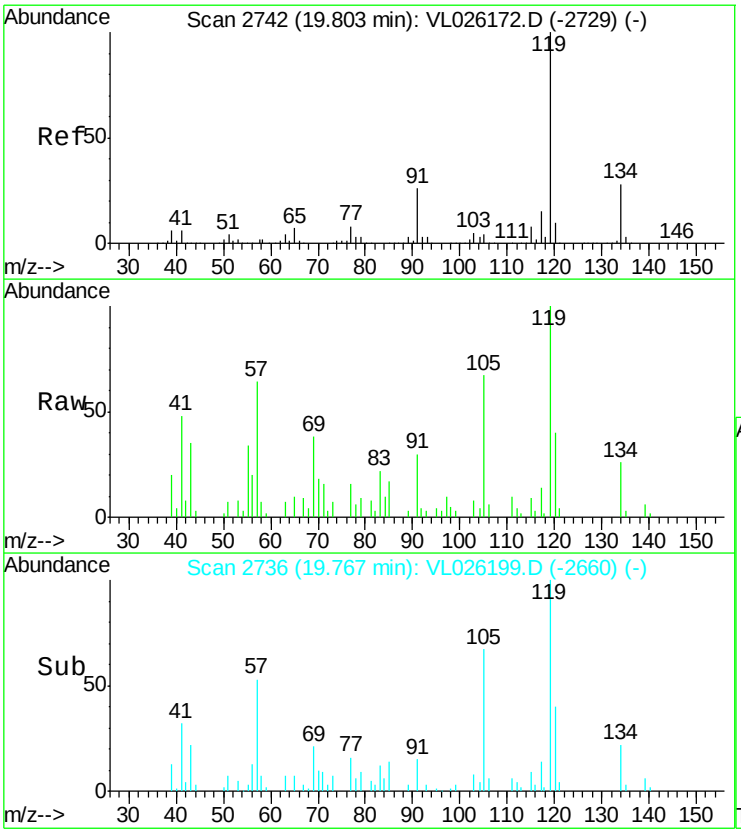

#68
1-Bromo-4-Fluorobenzene
Concen: 10.61 ppbv
RT: 16.27 min Scan# 2163
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion: 95 Resp: 1226167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 71.2 | 52.2 | 78.4 |
| 175 | 2.7 | 3.9 | 5.9# |

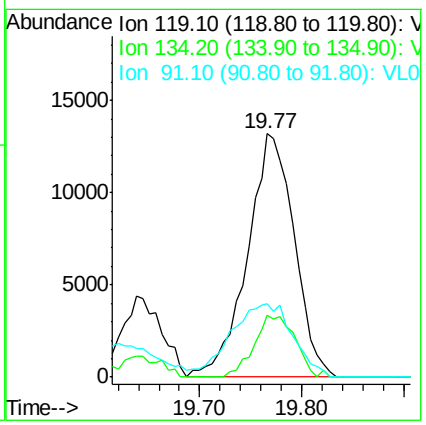


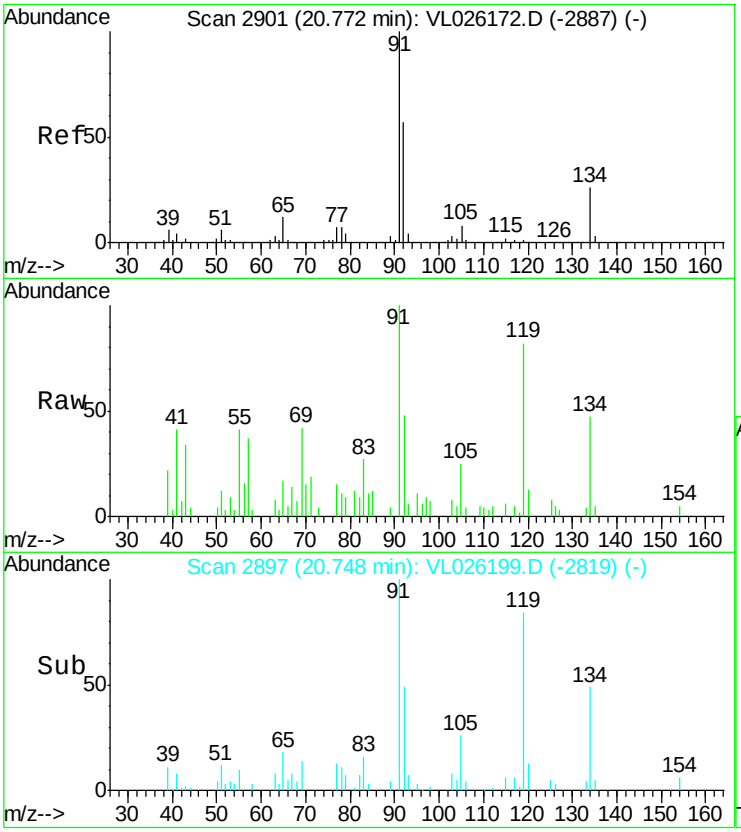




#69
p-Isopropyltoluene
Concen: 0.18 ppbv
RT: 19.77 min Scan# 2736
Delta R.T. -0.04 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:119 Resp: 41954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 22.3 | 21.4 | 32.0 |
| 91 | 39.3 | 19.9 | 29.9# |



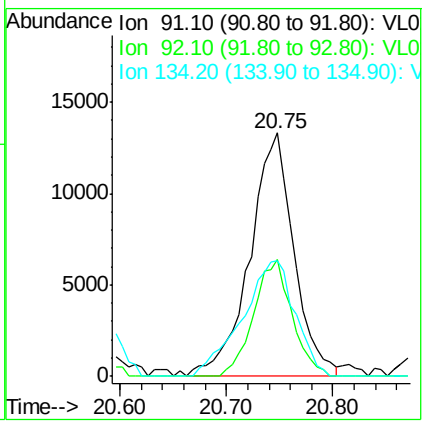


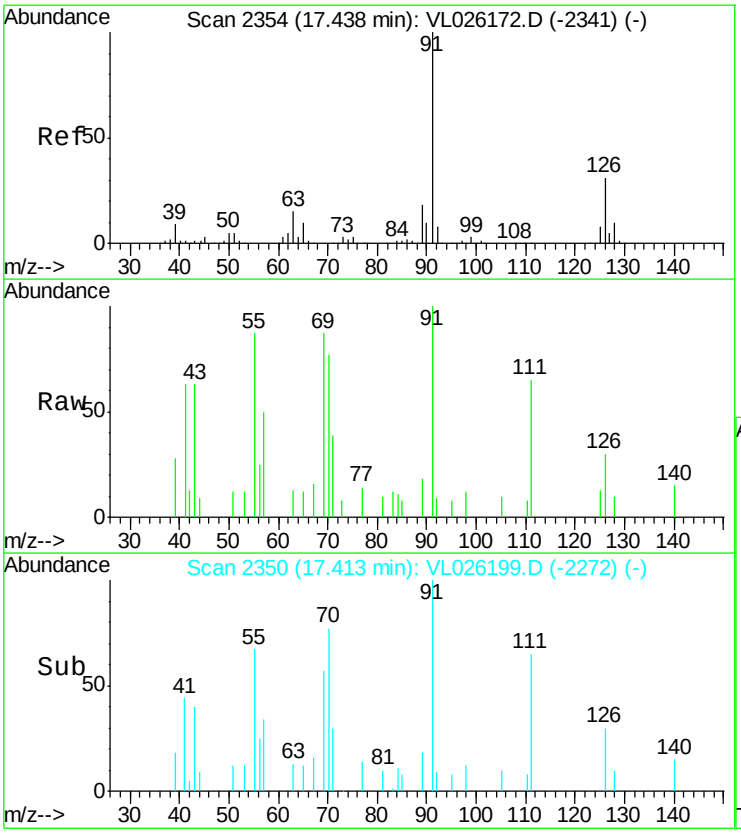

#70
n-Butylbenzene
Concen: 0.17 ppbv
RT: 20.75 min Scan# 2897
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :** MSVOA_L
**ClientSampleId :**

Tgt Ion: 91 Resp: 38684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 41.5 | 45.0 | 67.6# |
| 134 | 56.6 | 19.8 | 29.8# |

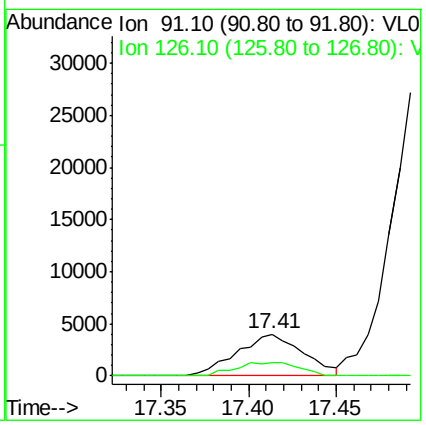


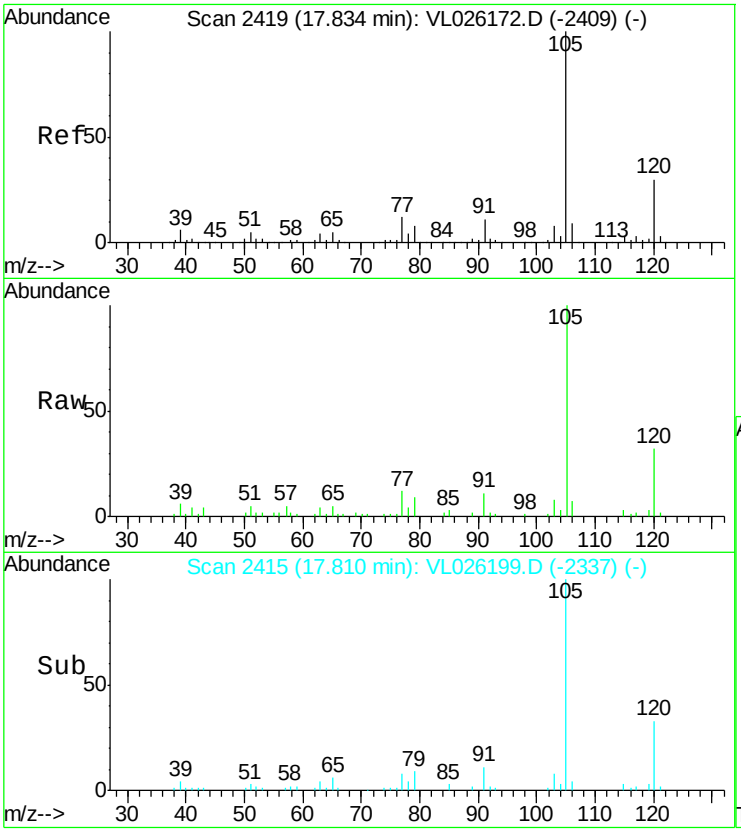




#71
2-Chlorotoluene
Concen: 0.06 ppbv
RT: 17.41 min Scan# 2350
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion: 91 Resp: 10551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.2 | 12.8 | 51.2 |



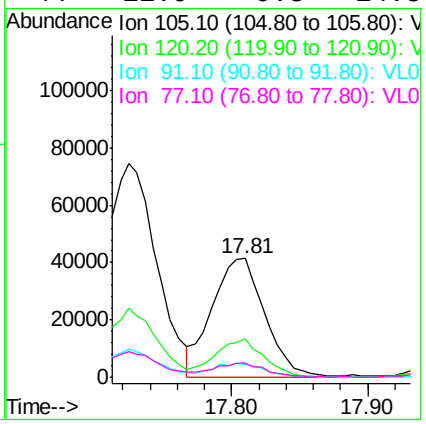


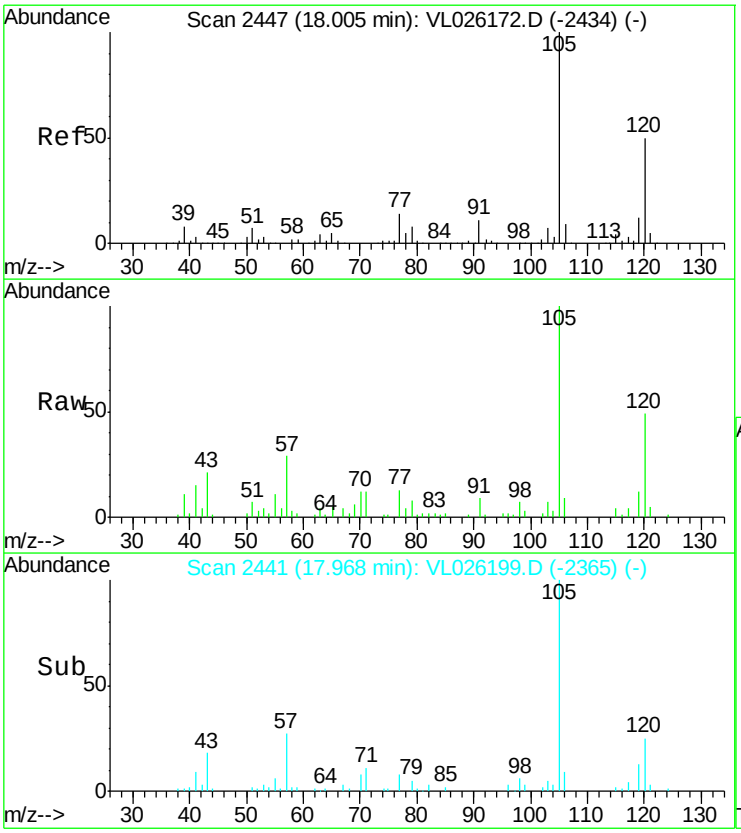

#72
4-Ethyltoluene
Concen: 0.57 ppbv
RT: 17.81 min Scan# 2415
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :** MSVOA_L
**ClientSampleId :**

Tgt Ion:105 Resp: 110910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.2 | 24.7 | 37.1 |
| 91 | 11.7 | 9.2 | 13.8 |
| 77 | 11.9 | 9.8 | 14.8 |

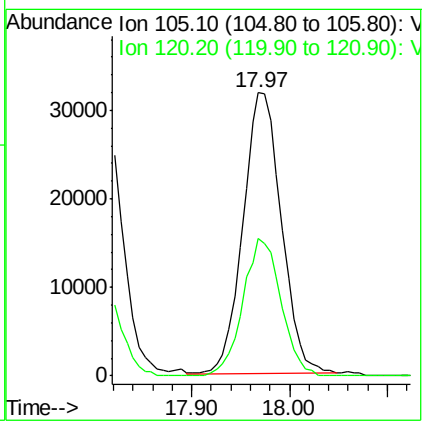


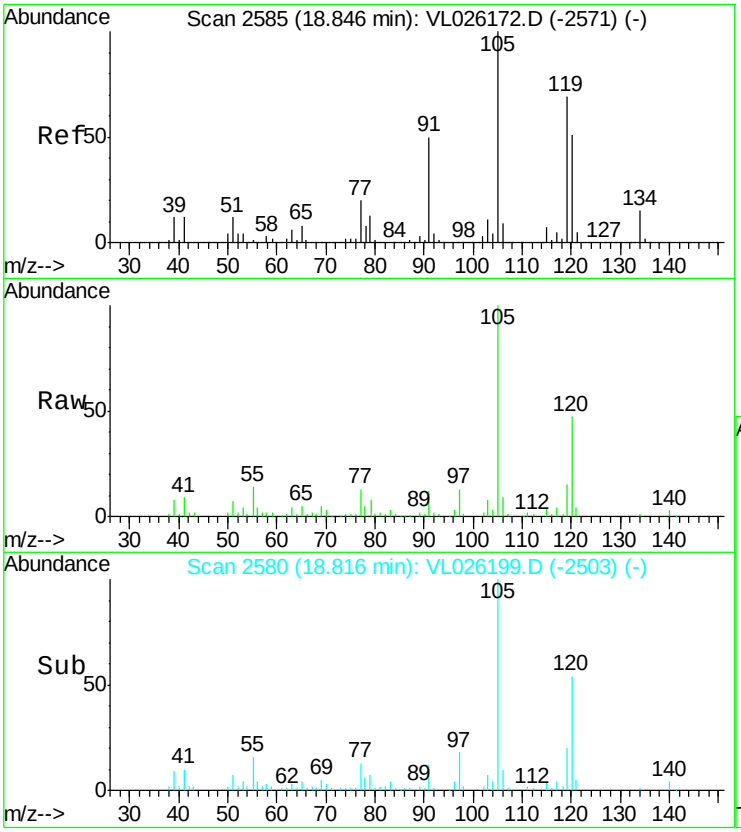




#73
1,3,5-Trimethylbenzene
Concen: 0.47 ppbv
RT: 17.97 min Scan# 2441
Delta R.T. -0.04 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:105 Resp: 86130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 40.1 | 60.1 |



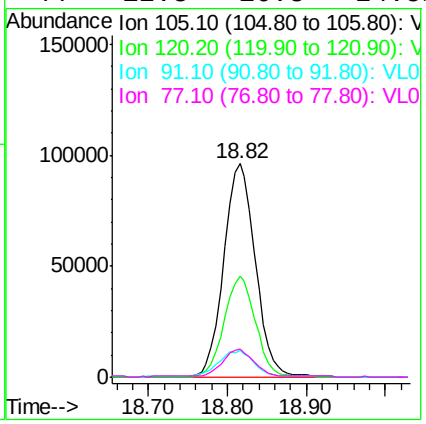


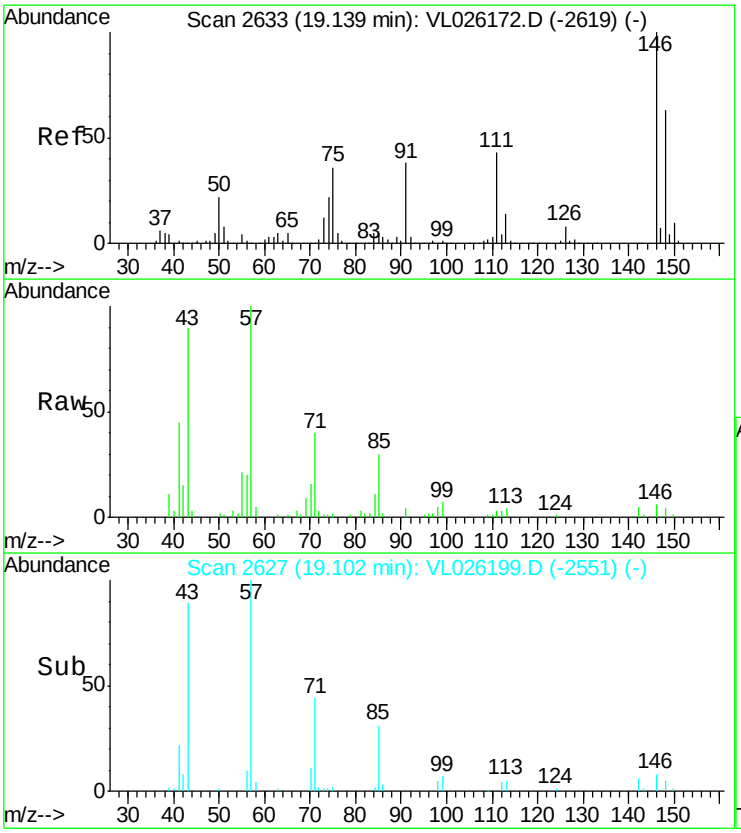

#74
1,2,4-Trimethylbenzene
Concen: 1.39 ppbv
RT: 18.82 min Scan# 2580
Delta R.T. -0.03 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:105 Resp: 268844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.2 | 41.1 | 61.7 |
| 91 | 12.3 | 39.8 | 59.6# |
| 77 | 12.8 | 16.3 | 24.5# |

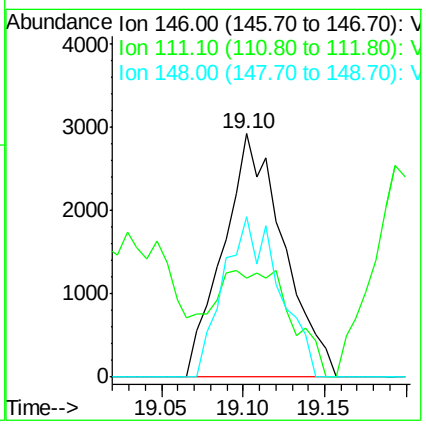


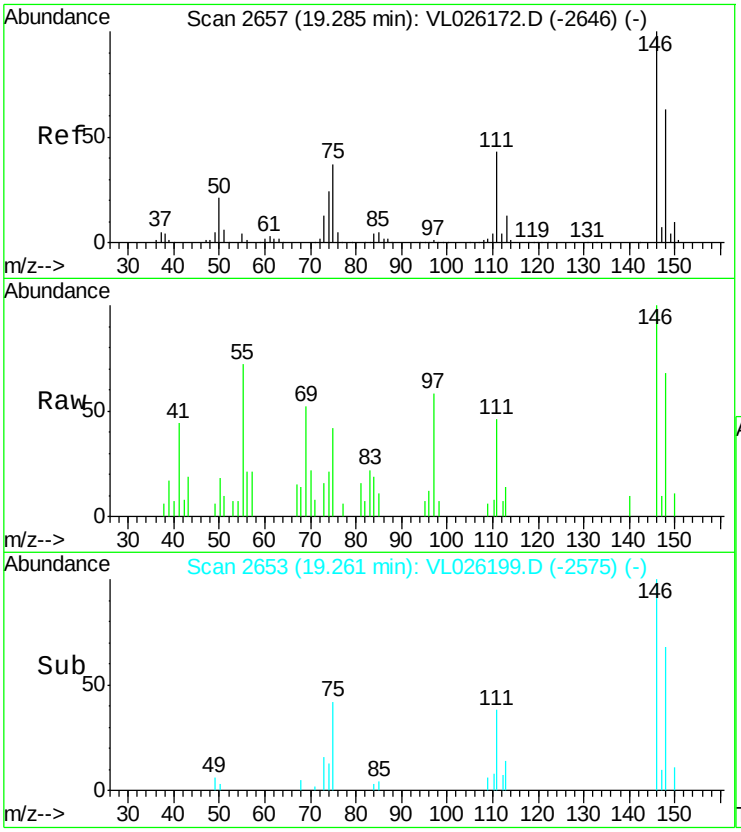




#75
1,3-Dichlorobenzene
Concen: 0.06 ppbv
RT: 19.10 min Scan# 2627
Delta R.T. -0.04 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:146 Resp: 7530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 35.8 | 22.1 | 66.3 |
| 148 | 60.9 | 31.9 | 95.5 |



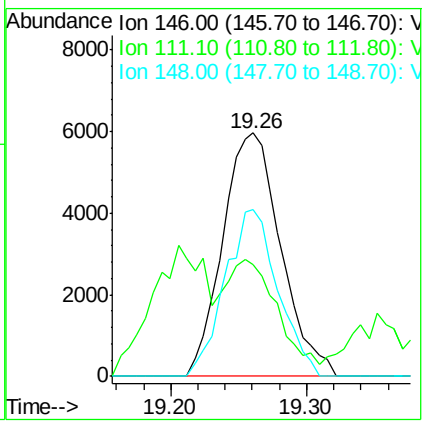


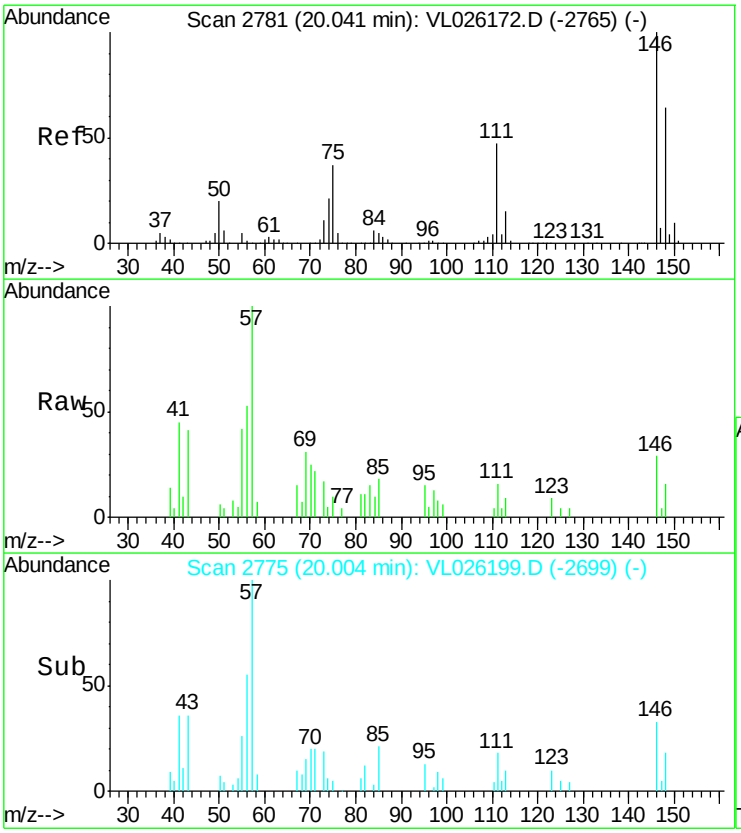

#76
1,4-Dichlorobenzene
Concen: 0.14 ppbv
RT: 19.26 min Scan# 2653
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:146 Resp: 17744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 81.2 | 21.3 | 63.9# |
| 148 | 62.2 | 31.6 | 94.8 |

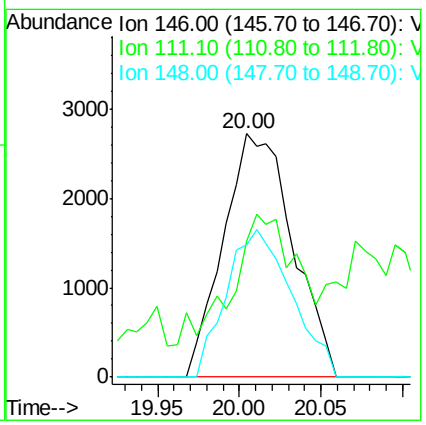


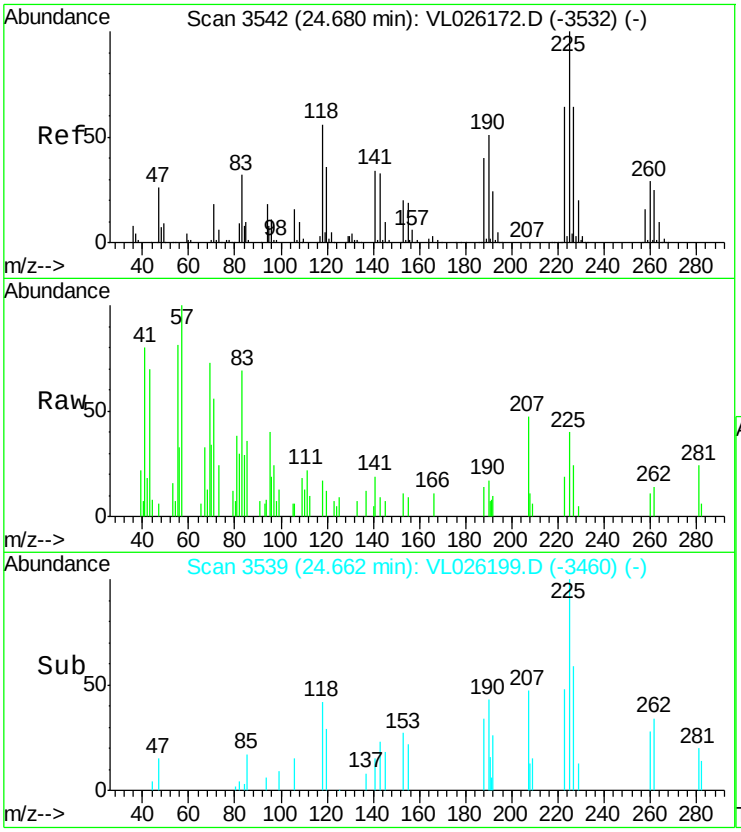




#77
1,2-Dichlorobenzene
Concen: 0.07 ppbv
RT: 20.00 min Scan# 2775
Delta R.T. -0.04 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:146 Resp: 8053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 58.4 | 23.0 | 69.0 |
| 148 | 57.0 | 31.8 | 95.3 |



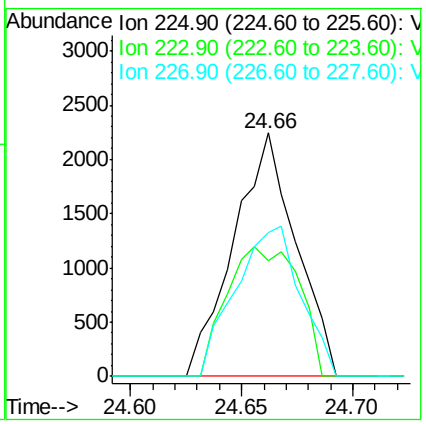


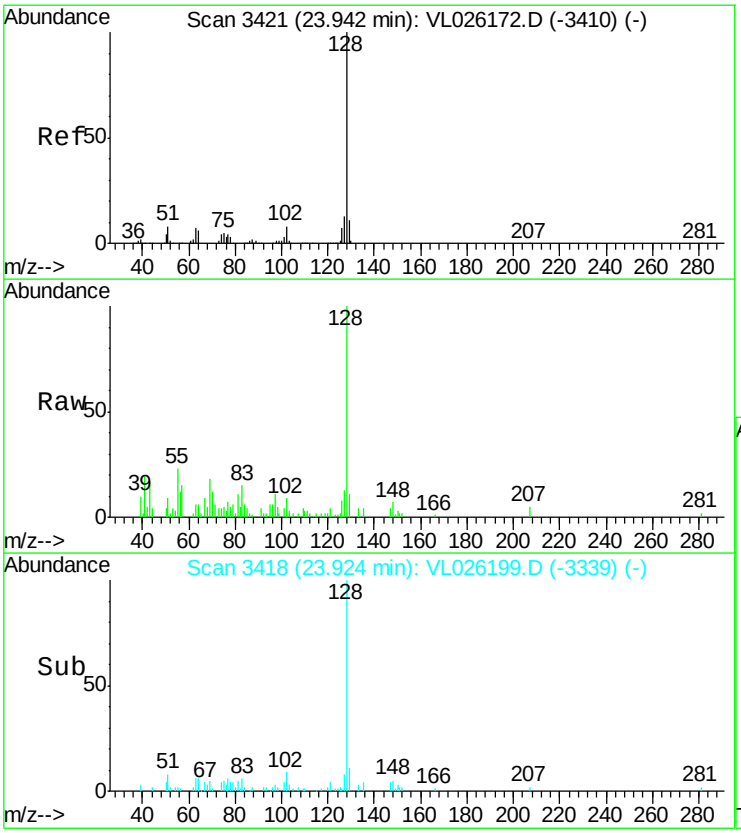

#78
Hexachloro-1,3-Butadiene
Concen: 0.09 ppbv
RT: 24.66 min Scan# 3539
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:225 Resp: 4366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.6 | 51.1 | 76.7 |
| 227 | 64.4 | 50.8 | 76.2 |

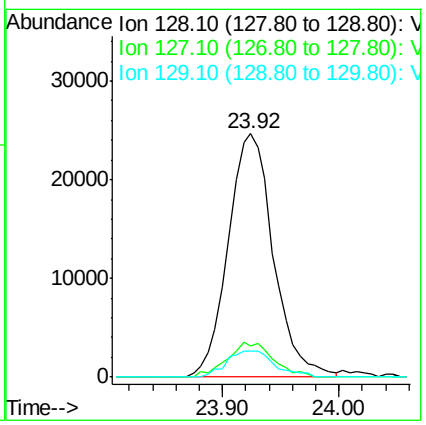


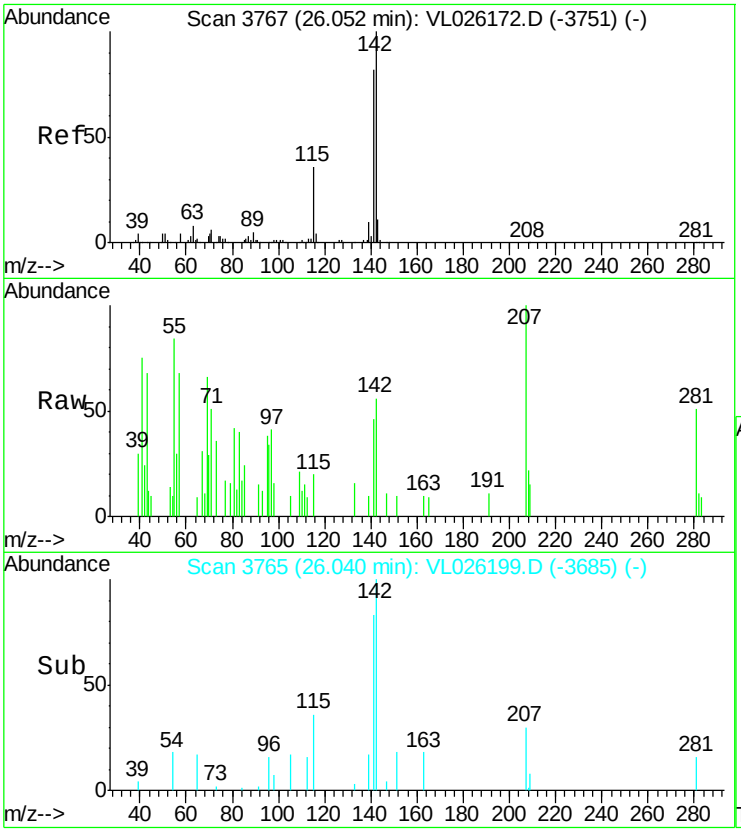




#79
Naphthalene
Concen: 0.55 ppbv
RT: 23.92 min Scan# 3418
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:128 Resp: 66650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.2 | 15.2 |
| 129 | 10.6 | 8.7 | 13.1 |



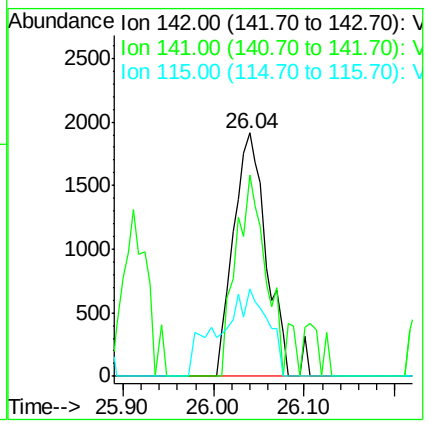


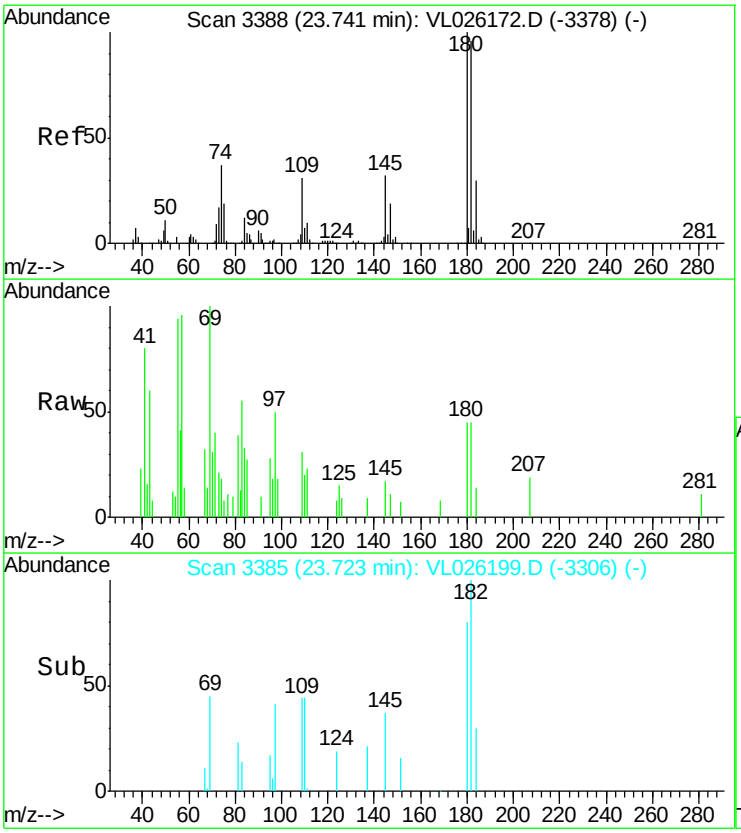

#80
Naphthalene,2-methyl-
Concen: 0.18 ppbv
RT: 26.04 min Scan# 3765
Delta R.T. -0.01 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

**Instrument :**
MSVOA_L
**ClientSampleId :**

Tgt Ion:142 Resp: 4837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.8 | 66.6 | 99.8 |
| 115 | 52.7 | 28.4 | 42.6# |




#81
1,2,4-Trichlorobenzene
Concen: 0.08 ppbv
RT: 23.72 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL026199.D
Acq: 10 Oct 2015 6:15

Tgt Ion:180 Resp: 4835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 107.8 | 76.4 | 114.6 |
| 184 | 27.7 | 24.0 | 36.0 |