Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071818\
Data File : VL032282.D
Acq On : 19 Jul 2018 5:05
Operator : SY/AP
Sample : J3454-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Jul 19 07:48:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 14:38:53 2018
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.84 | 49 | 1637801 | 10.00 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 7.37 | 114 | 3404872 | 10.00 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 12.33 | 117 | 3978569 | 10.00 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.66 | 95 | 3053825 | 9.47 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 94.70% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.13 | 85 | 16983 | 0.061 | ppbv # | 83 |
| 3) Chlorodifluoromethane | 3.04 | 51 | 72907 | 0.397 | ppbv # | 66 |
| 4) Chloromethane | 3.22 | 50 | 3996 | 0.037 | ppbv | 94 |
| 9) Propene | 3.45 | 41 | 2617 | 0.033 | ppbv | 98 |
| 13) Ethanol | 3.72 | 45 | 187998 | 8.191 | ppbv | 100 |
| 15) Acetone | 3.97 | 43 | 178865 | 1.043 | ppbv | 99 |
| 19) Isopropyl Alcohol | 4.12 | 45 | 31943 | 0.276 | ppbv # | 80 |
| 20) Methylene Chloride | 4.48 | 84 | 19780 | 0.300 | ppbv | 91 |
| 25) Ethyl Acetate | 5.86 | 43 | 22740 | 0.061 | ppbv # | 88 |
| 26) Hexane | 5.86 | 57 | 20577 | 0.120 | ppbv # | 54 |
| 39) 1,2-Dichloropropane | 7.37 | 63 | 955581 | 7.202 | ppbv # | 27 |
| 65) tert-Butylbenzene | 17.20 | 119 | 36197 | 0.062 | ppbv # | 28 |

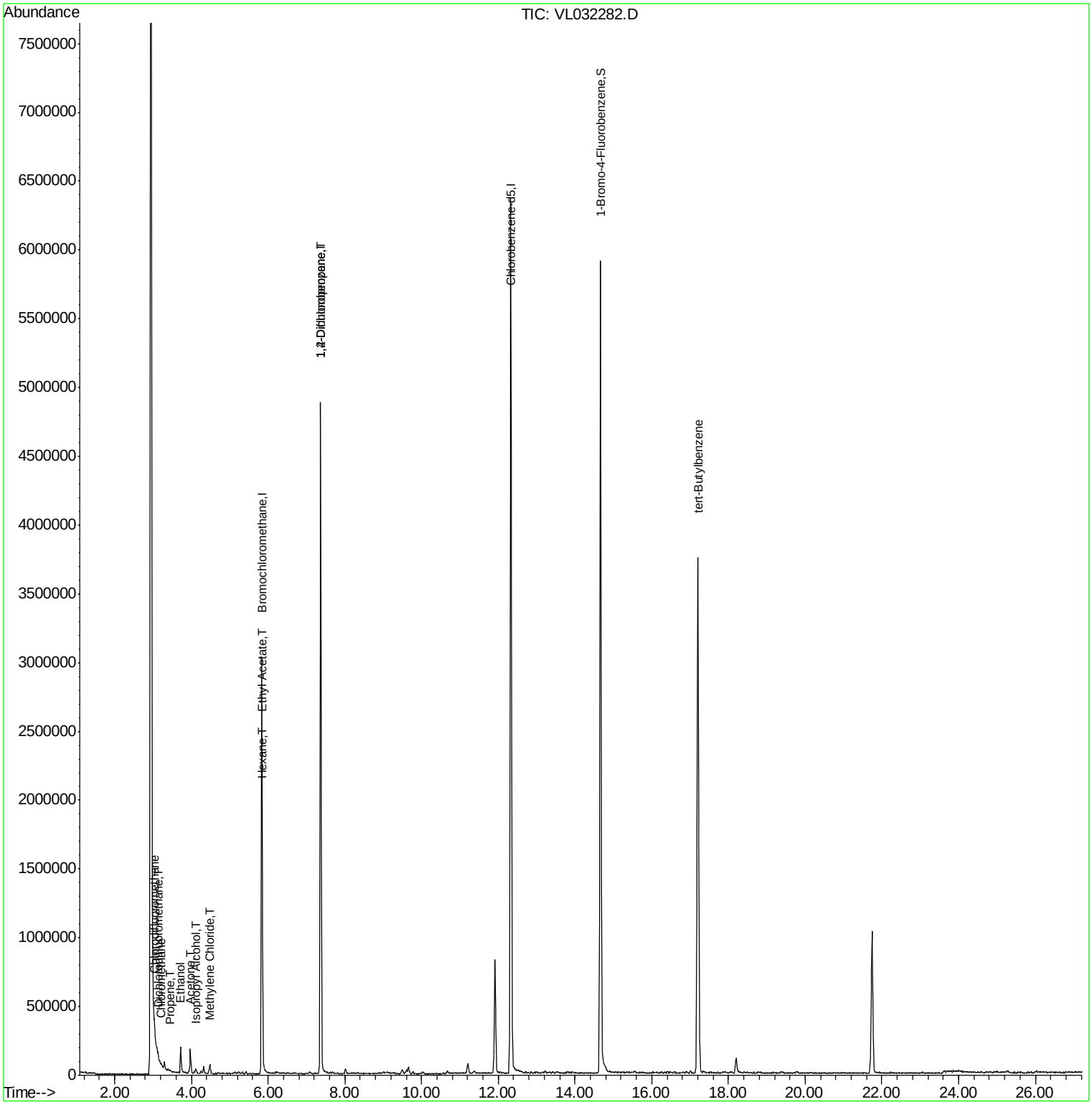
(#) = qualifier out of range (m) = manual integration (+) = signals summed

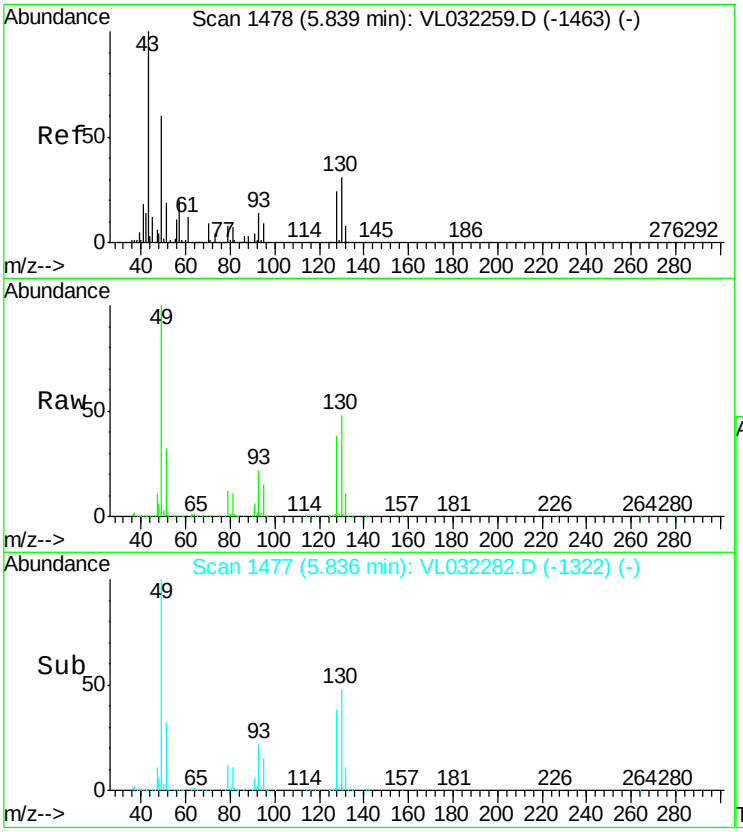
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071818\
Data File : VL032282.D
Acq On : 19 Jul 2018 5:05
Operator : SY/AP
Sample : J3454-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Jul 19 07:48:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 14:38:53 2018
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration



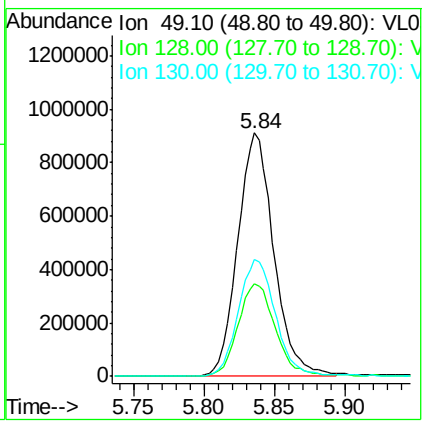


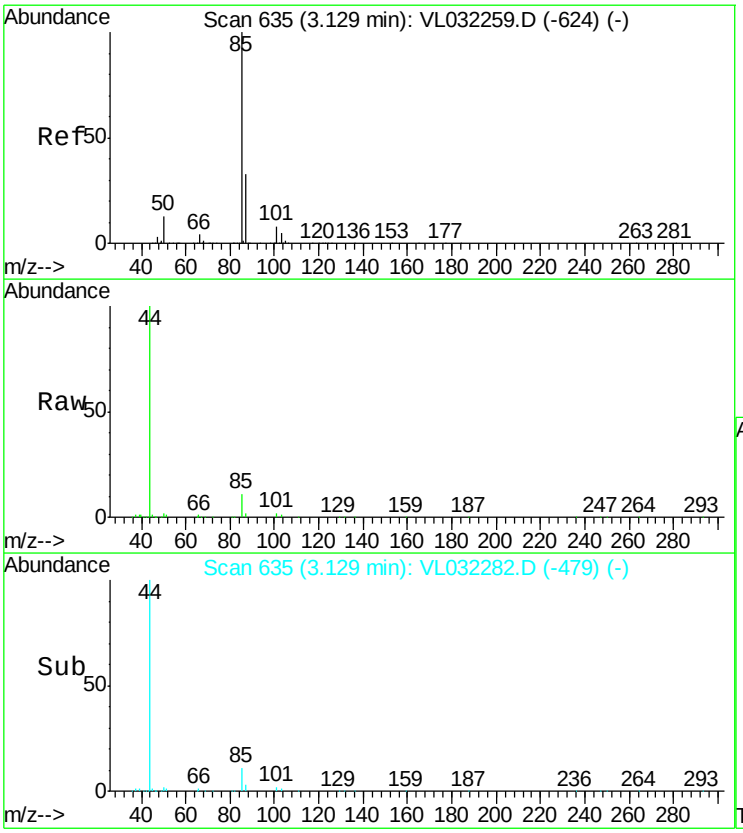

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

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

Tgt Ion: 49 Resp: 1637801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 40.0 | 20.1 | 60.2 |
| 130 | 49.9 | 25.9 | 77.6 |

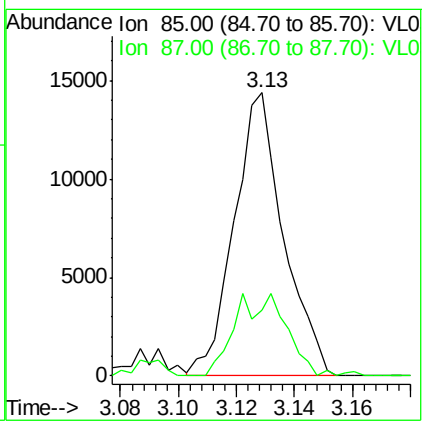


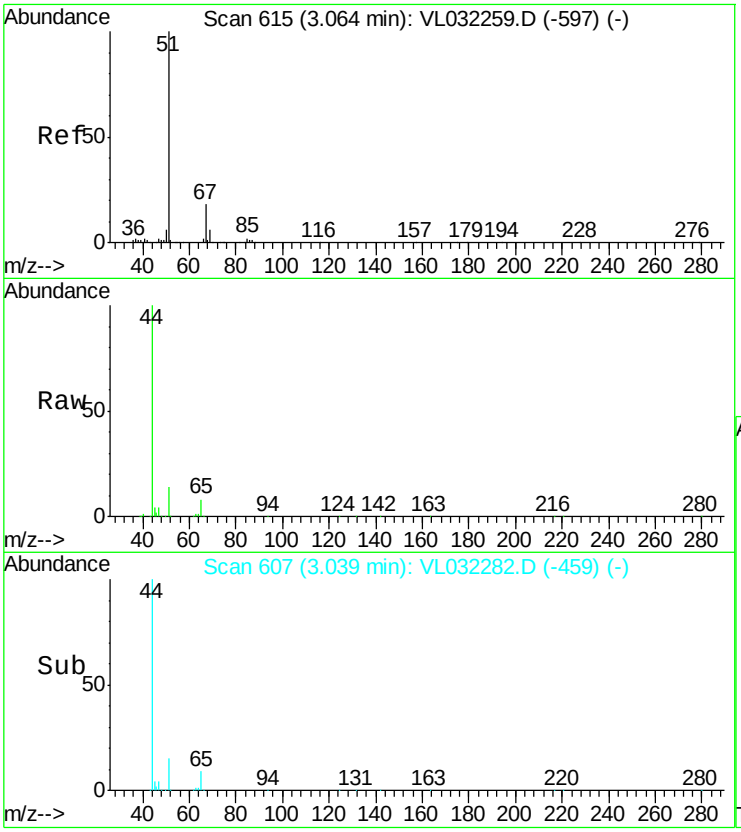




#2
Dichlorodifluoromethane
Concen: 0.061 ppbv
RT: 3.13 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion: 85 Resp: 16983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 23.1 | 26.2 | 39.2# |

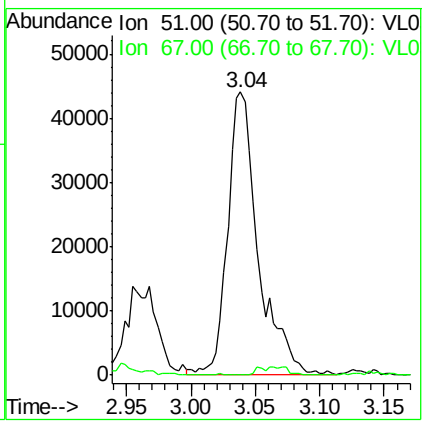




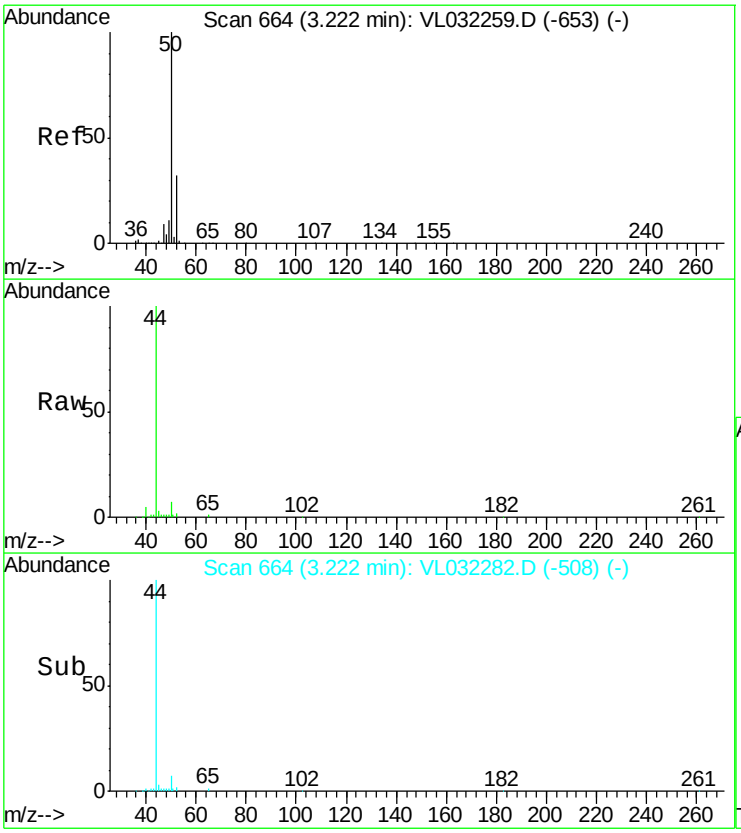

#3
Chlorodifluoromethane
Concen: 0.397 ppbv
RT: 3.04 min Scan# 607
Delta R.T. -0.03 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion: 51 Resp: 72907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 2.8 | 14.2 | 21.4# |



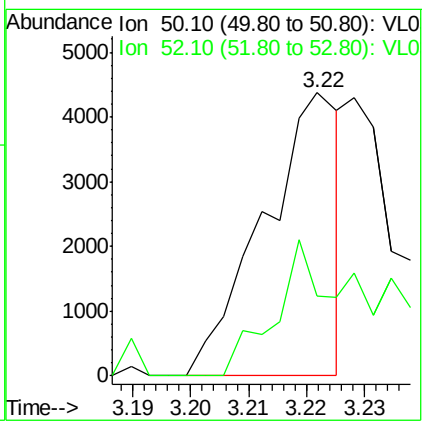

**Instrument :**
MSVOA_L
**ClientSampleId :**

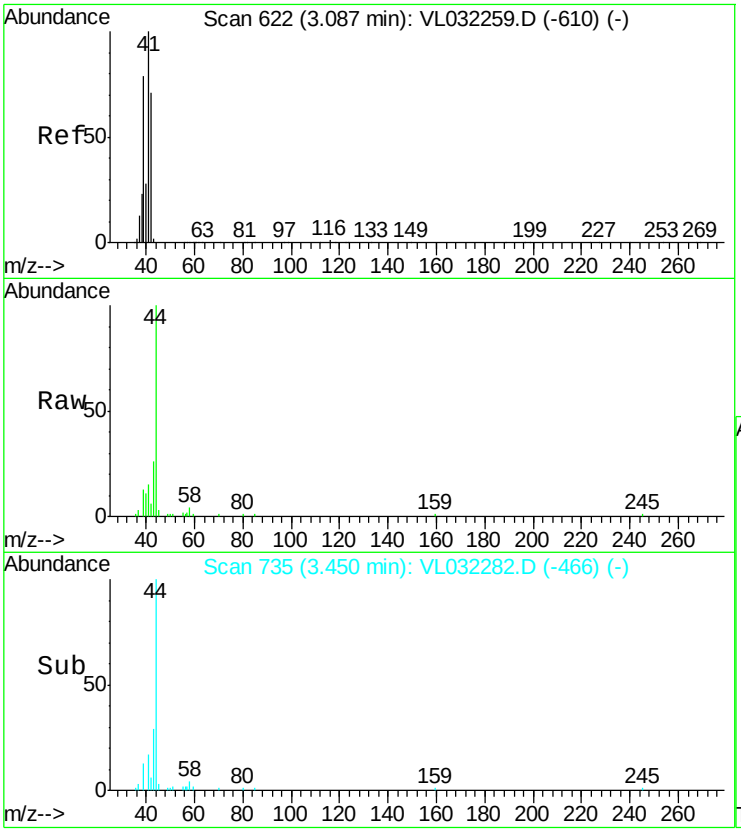



#4
Chloromethane
Concen: 0.037 ppbv
RT: 3.22 min Scan# 664
Delta R.T. 0.00 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion: 50 Resp: 3996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.2 | 25.3 | 37.9 |



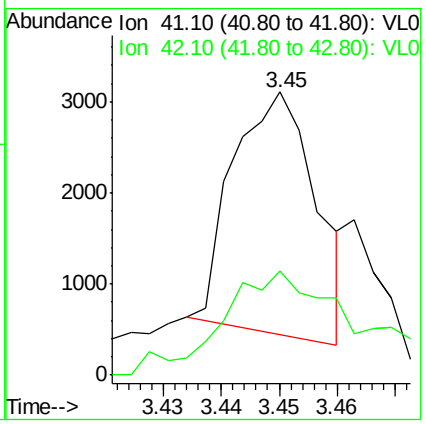


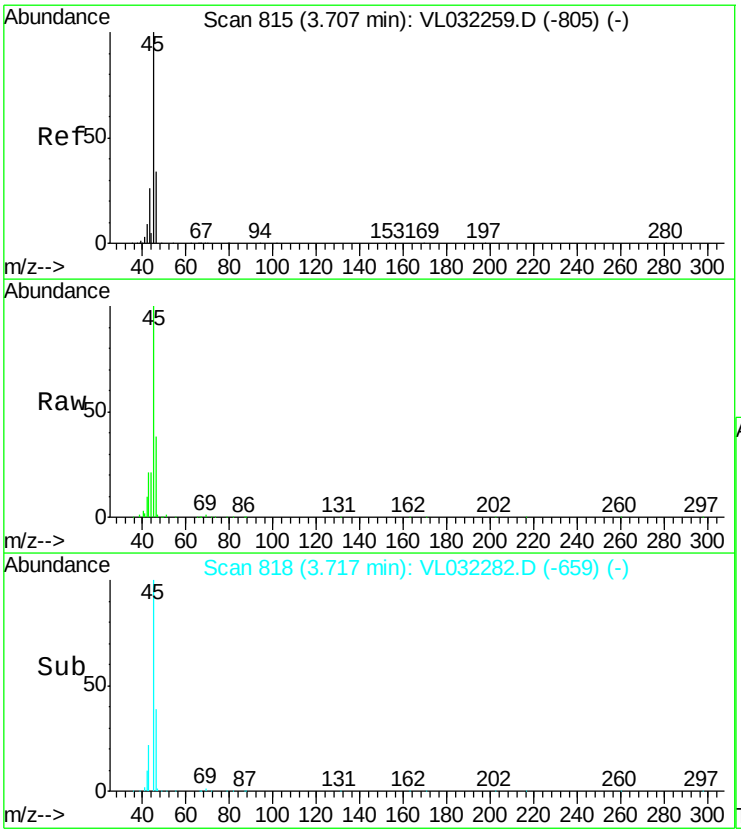

#9
Propene
Concen: 0.033 ppbv
RT: 3.45 min Scan# 735
Delta R.T. 0.36 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

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

Tgt Ion: 41 Resp: 2617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 72.1 | 56.2 | 84.4 |

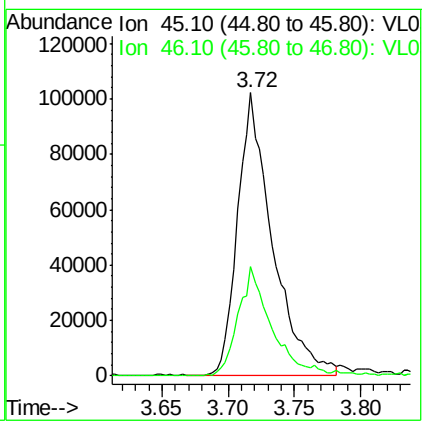


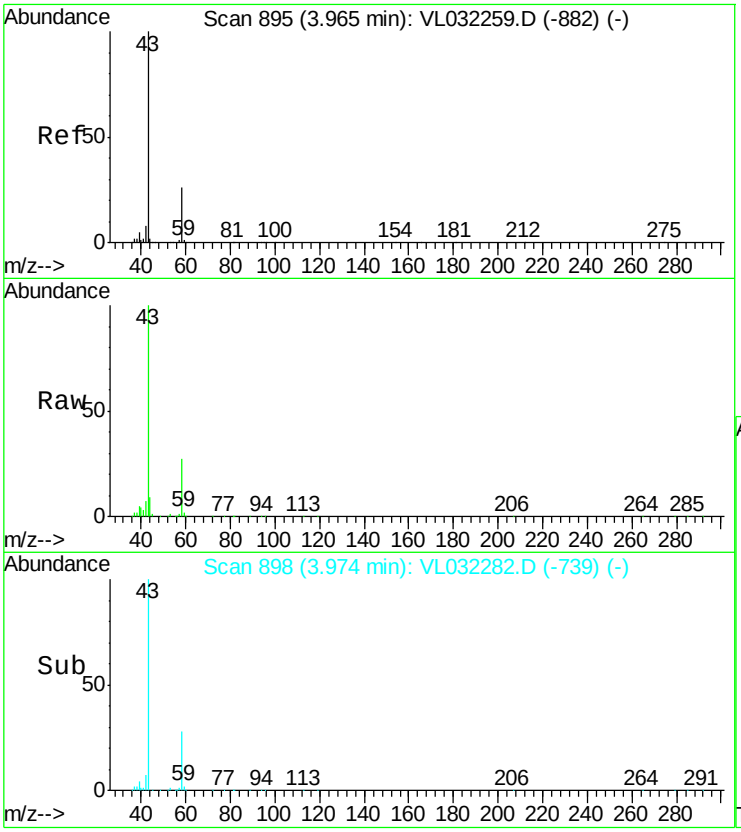




#13
Ethanol
Concen: 8.191 ppbv
RT: 3.72 min Scan# 818
Delta R.T. 0.01 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion: 45 Resp: 187998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.9 | 15.2 | 60.8 |



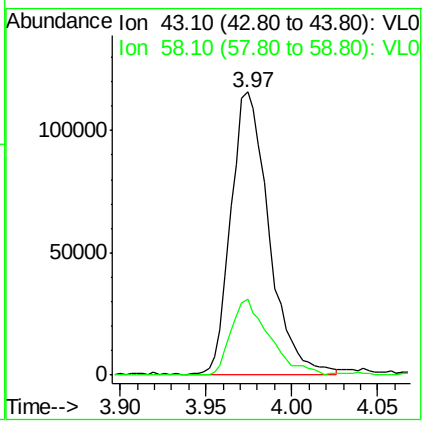


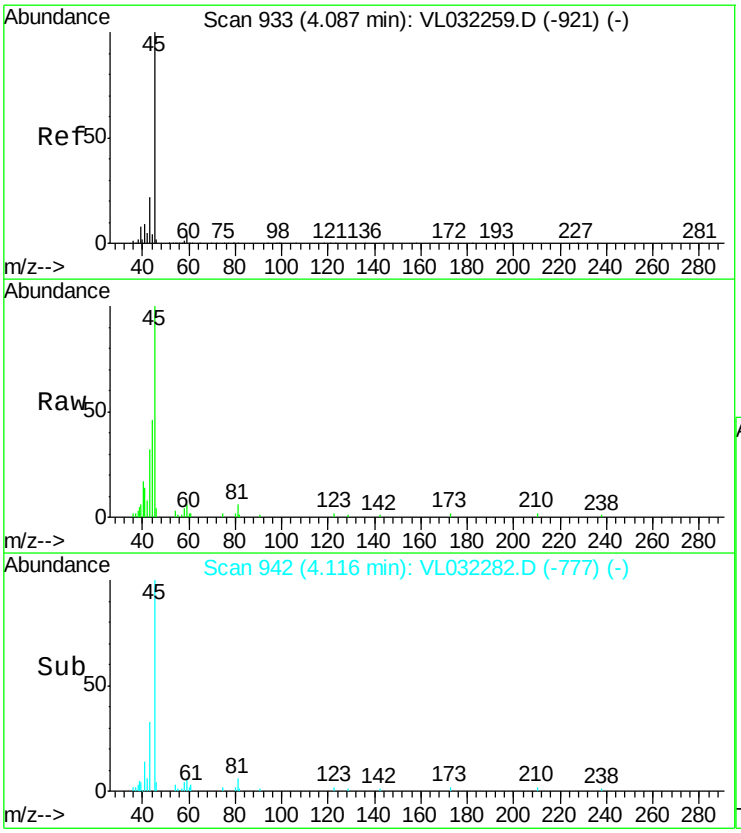

#15
Acetone
Concen: 1.043 ppbv
RT: 3.97 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

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

Tgt Ion: 43 Resp: 178865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 21.8 | 32.6 |

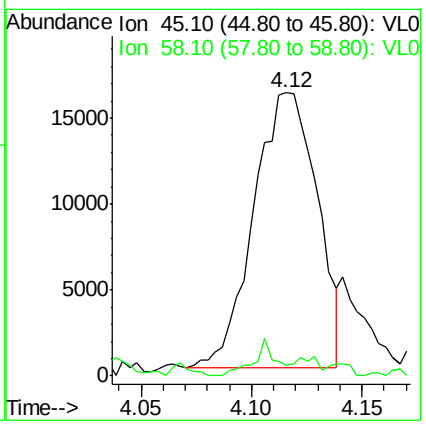


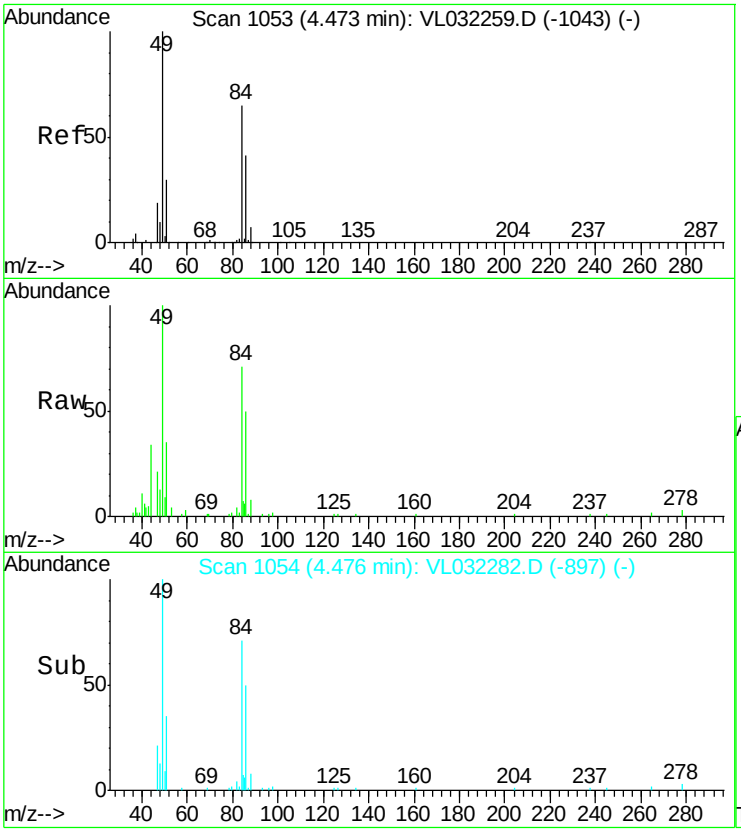




#19
Isopropyl Alcohol
Concen: 0.276 ppbv
RT: 4.12 min Scan# 942
Delta R.T. 0.03 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion: 45 Resp: 31943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 9.2 | 1.5 | 2.3# |



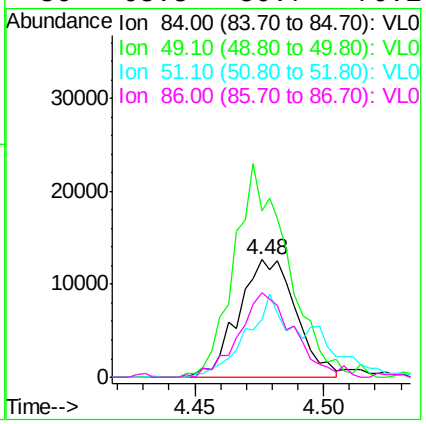


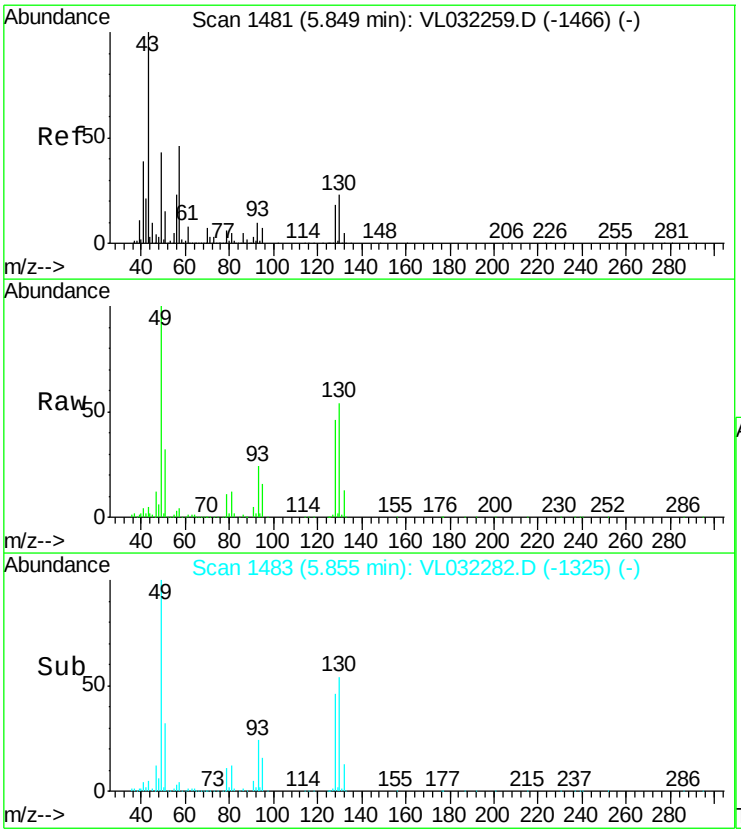

#20
Methylene Chloride
Concen: 0.300 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

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

Tgt Ion: 84 Resp: 19780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 137.9 | 122.4 | 183.6 |
| 51 | 49.1 | 36.8 | 55.2 |
| 86 | 68.8 | 50.7 | 76.1 |

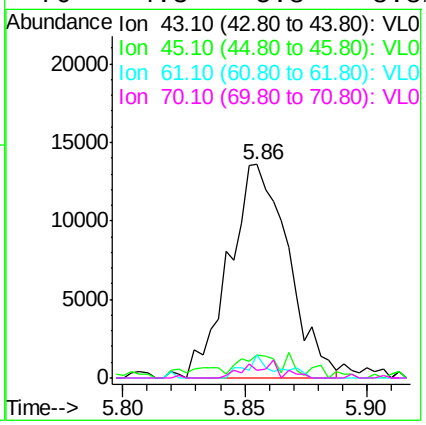


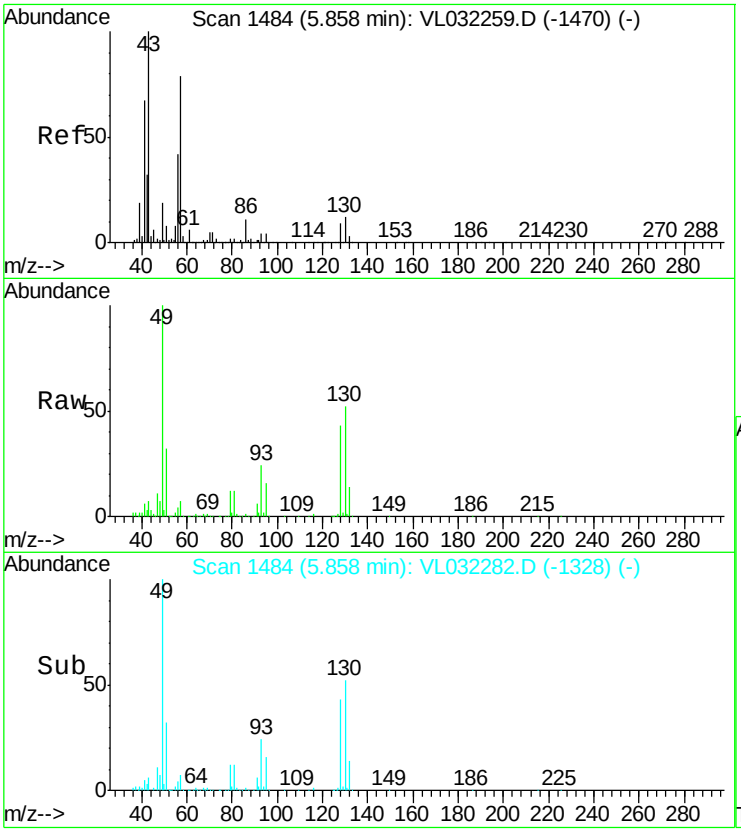




#25
Ethyl Acetate
Concen: 0.061 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. 0.01 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion: 43 Resp: 22740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 15.2 | 7.9 | 11.9# |
| 61 | 5.4 | 7.6 | 11.4# |
| 70 | 4.3 | 5.8 | 8.8# |



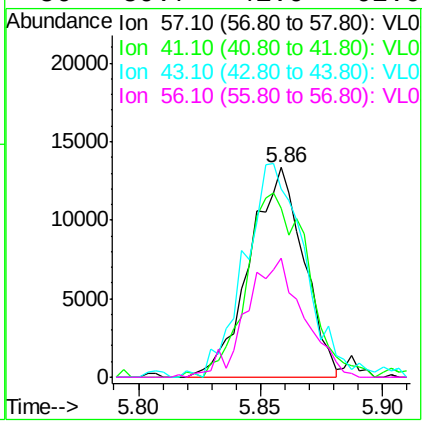


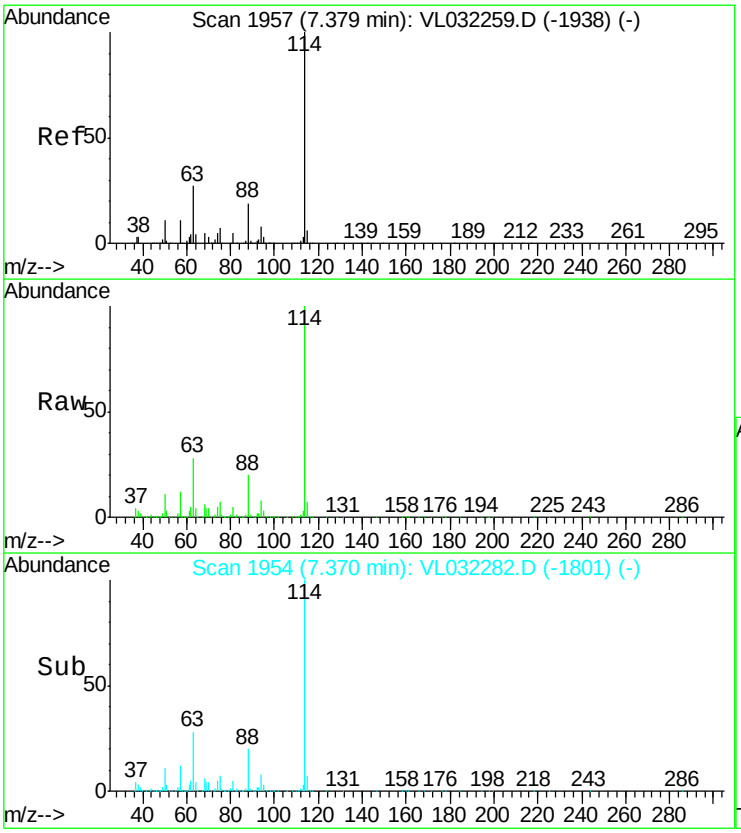

#26
Hexane
Concen: 0.120 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. 0.00 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

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

Tgt Ion: 57 Resp: 20577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 101.6 | 67.9 | 101.9 |
| 43 | 115.7 | 175.9 | 263.9# |
| 56 | 59.7 | 41.9 | 62.9 |

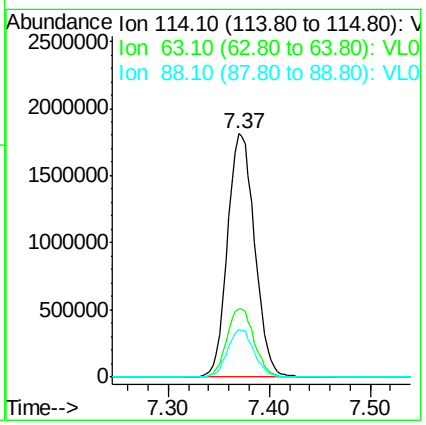


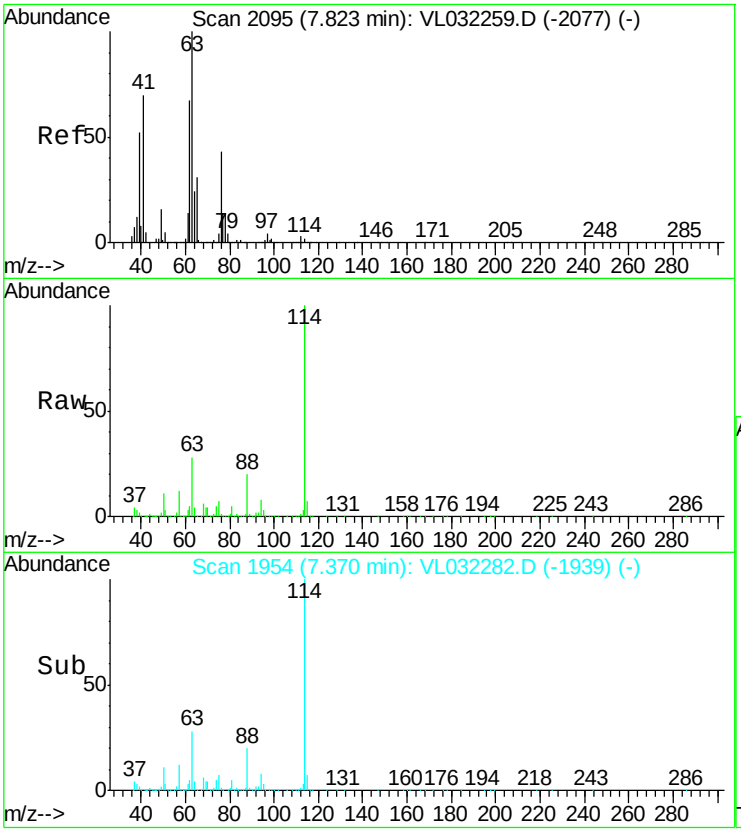




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.37 min Scan# 1954
Delta R.T. -0.01 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion:114 Resp: 3404872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.3 | 22.6 | 33.8 |
| 88 | 19.3 | 15.2 | 22.8 |



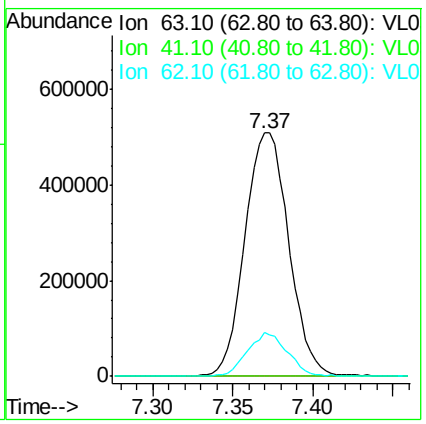


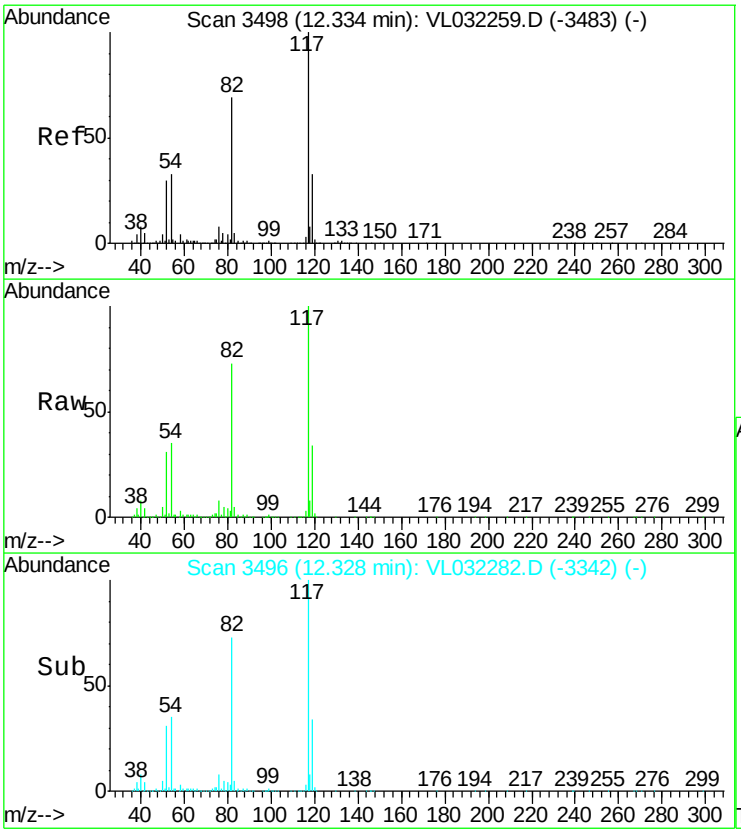

#39
1,2-Dichloropropane
Concen: 7.202 ppbv
RT: 7.37 min Scan# 1954
Delta R.T. -0.45 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

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

Tgt Ion: 63 Resp: 955581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.1 | 55.8 | 83.6# |
| 62 | 18.0 | 53.8 | 80.8# |

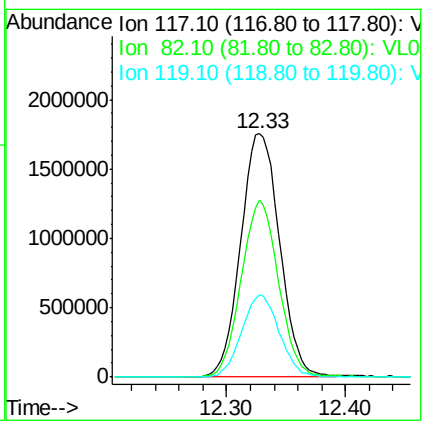


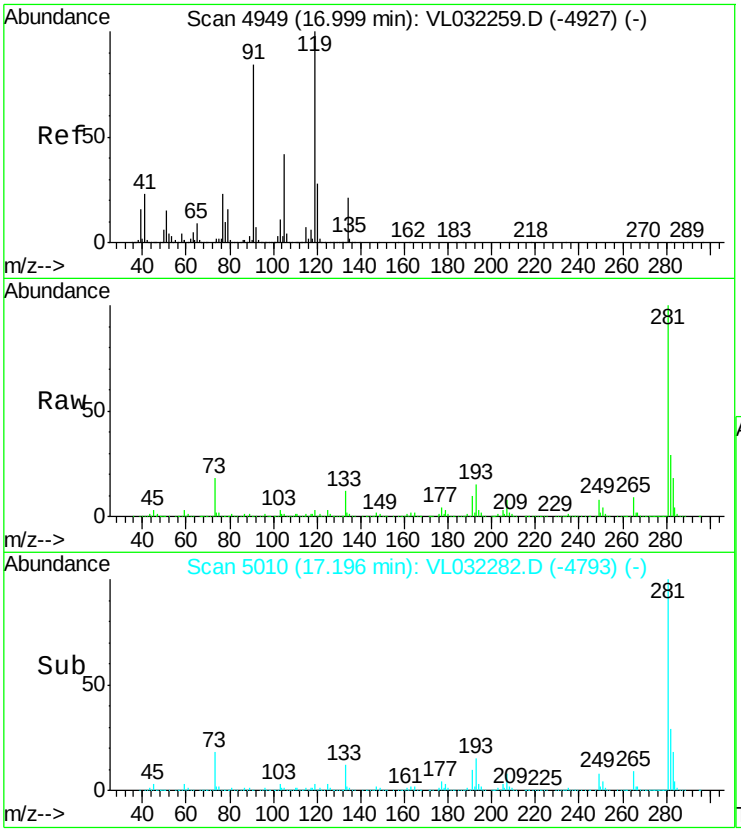




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3496
Delta R.T. -0.01 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion:117 Resp: 3978569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.1 | 53.9 | 80.9 |
| 119 | 32.8 | 25.5 | 38.3 |



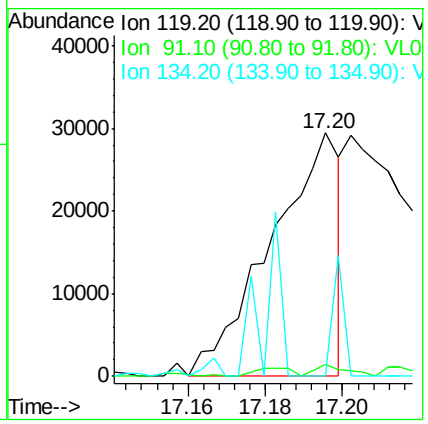


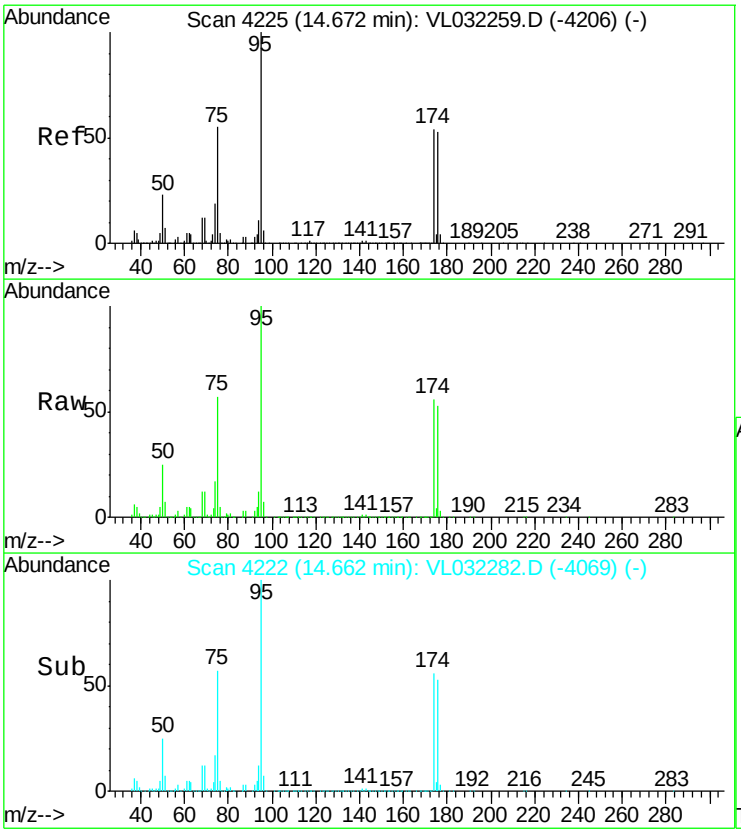

#65
tert-Butylbenzene
Concen: 0.062 ppbv
RT: 17.20 min Scan# 5010
Delta R.T. 0.20 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

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

Tgt Ion:119 Resp: 36197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 4.5 | 68.2 | 102.4# |
| 134 | 20.2 | 15.6 | 23.4 |




#68
1-Bromo-4-Fluorobenzene
Concen: 9.467 ppbv
RT: 14.66 min Scan# 4222
Delta R.T. -0.01 min
Lab File: VL032282.D
Acq: 19 Jul 2018 5:05

Tgt Ion: 95 Resp: 3053825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 56.9 | 44.3 | 66.5 |
| 175 | 4.0 | 3.3 | 4.9 |