Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050620\
Data File : VL034959.D
Acq On : 7 May 2020 7:26
Operator : SY/AP
Sample : QC041620 CAN 10607
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: May 07 08:15:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.66 | 49 | 1182507 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.19 | 114 | 2737255 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.12 | 117 | 2566045 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.46 | 95 | 2122693 | 10.22 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 102.20% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.02 | 85 | 8540 | 0.051 | ppbv | # | 71 |
| 3) Chlorodifluoromethane | 2.95 | 51 | 3094 | 0.023 | ppbv | | 96 |
| 4) Chloromethane | 3.11 | 50 | 2073 | 0.027 | ppbv | | 97 |
| 9) Propene | 2.98 | 41 | 46954 | 0.801 | ppbv | # | 83 |
| 10) Heptane | 8.14 | 43 | 19952 | 0.136 | ppbv | | 97 |
| 13) Ethanol | 3.58 | 45 | 7753 | 0.401 | ppbv | # | 52 |
| 15) Acetone | 3.82 | 43 | 3772676 | 24.132 | ppbv | | 95 |
| 16) 1,3-Butadiene | 3.28 | 39 | 134873 | 2.005 | ppbv | # | 15 |
| 17) tert-Butyl alcohol | 4.29 | 59 | 29329 | 0.211 | ppbv | # | 81 |
| 19) Isopropyl Alcohol | 3.95 | 45 | 27743 | 0.266 | ppbv | # | 94 |
| 20) Methylene Chloride | 4.32 | 84 | 7188 | 0.139 | ppbv | # | 90 |
| 23) Vinyl Acetate | 5.06 | 43 | 11575 | 0.058 | ppbv | # | 80 |
| 25) Ethyl Acetate | 5.68 | 43 | 16967 | 0.065 | ppbv | # | 85 |
| 26) Hexane | 5.68 | 57 | 20379 | 0.179 | ppbv | # | 36 |
| 29) Chloroform | 5.75 | 83 | 5618 | 0.030 | ppbv | | 89 |
| 34) 2-Butanone | 5.24 | 43 | 330238 | 1.941 | ppbv | | 97 |
| 39) 1,2-Dichloropropane | 7.19 | 63 | 724873 | 8.012 | ppbv | # | 24 |
| 44) 2,2,4-Trimethylpentane | 7.88 | 57 | 46118 | 0.115 | ppbv | # | 30 |
| 51) 2-Hexanone | 10.16 | 43 | 43712 | 0.230 | ppbv | # | 29 |
| 53) Toluene | 9.83 | 91 | 36843 | 0.154 | ppbv | # | 20 |
| 59) m/p-Xylene | 13.03 | 91 | 30725 | 0.110 | ppbv | # | 8 |
| 60) o-Xylene | 13.73 | 91 | 55279 | 0.201 | ppbv | | 95 |
| 72) 4-Ethyltoluene | 15.88 | 105 | 12469 | 0.041 | ppbv | # | 1 |
| 73) 1,3,5-Trimethylbenzene | 16.04 | 105 | 15362 | 0.051 | ppbv | # | 70 |
| 74) 1,2,4-Trimethylbenzene | 16.81 | 105 | 83362 | 0.255 | ppbv | # | 70 |

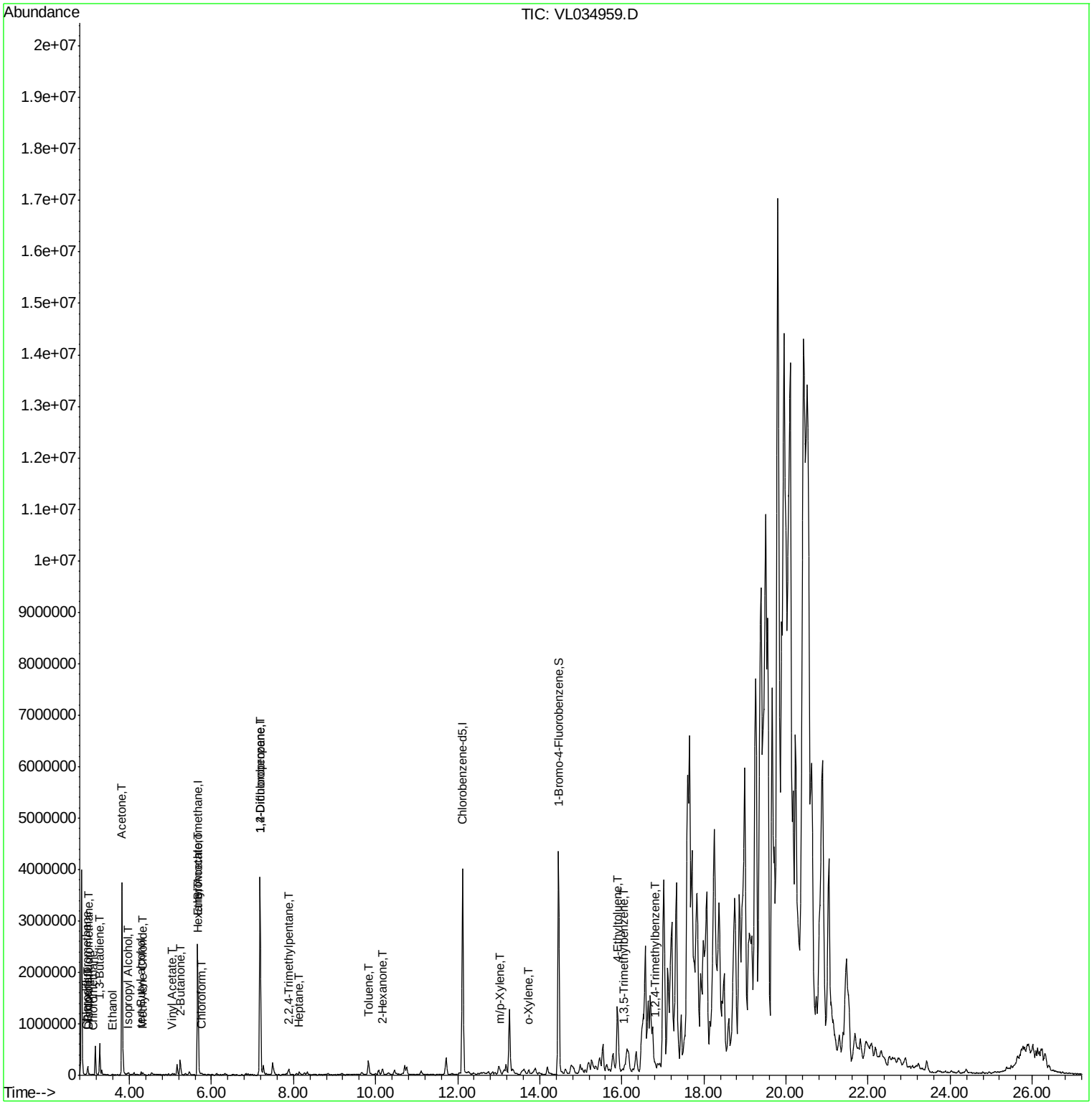
(#) = qualifier out of range (m) = manual integration (+) = signals summed

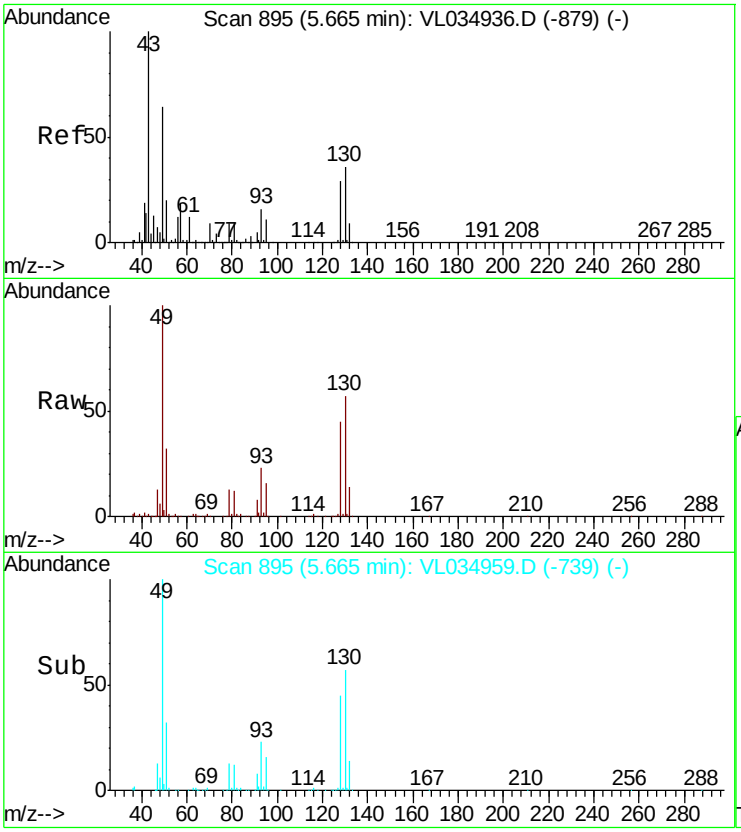
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050620\
Data File : VL034959.D
Acq On : 7 May 2020 7:26
Operator : SY/AP
Sample : QC041620 CAN 10607
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: May 07 08:15:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration



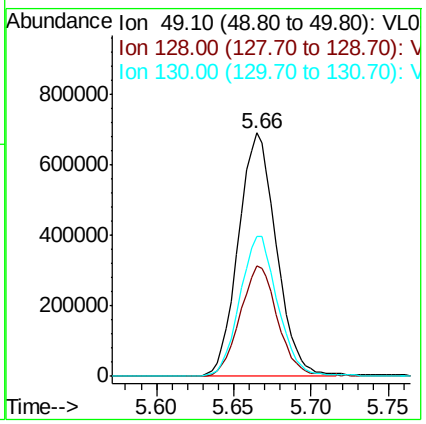


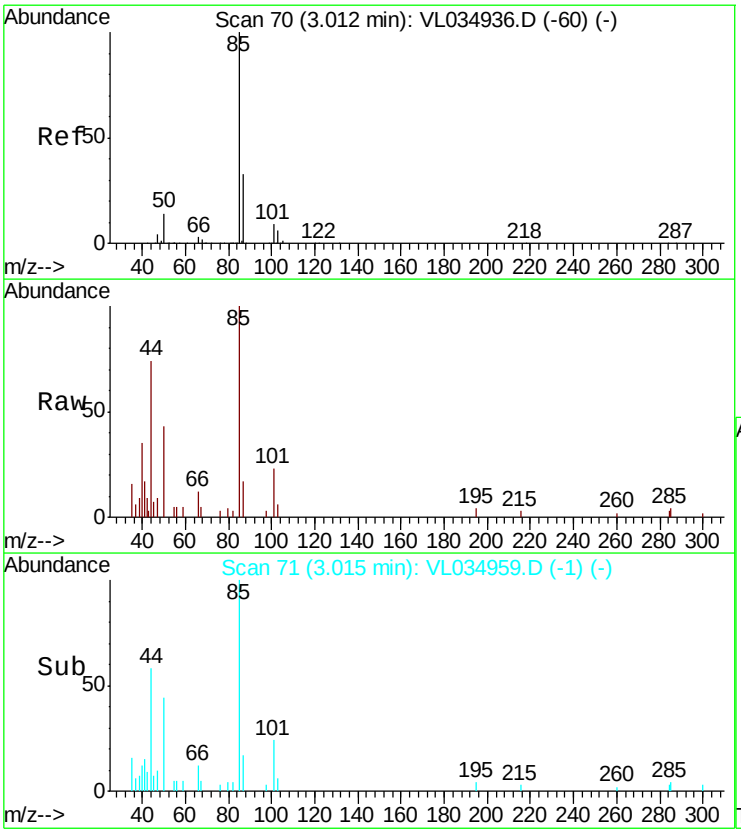

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 49 Resp: 1182507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.1 | 22.1 | 66.5 |
| 130 | 57.6 | 29.1 | 87.3 |

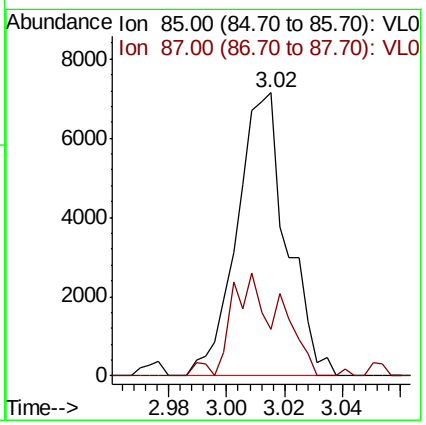


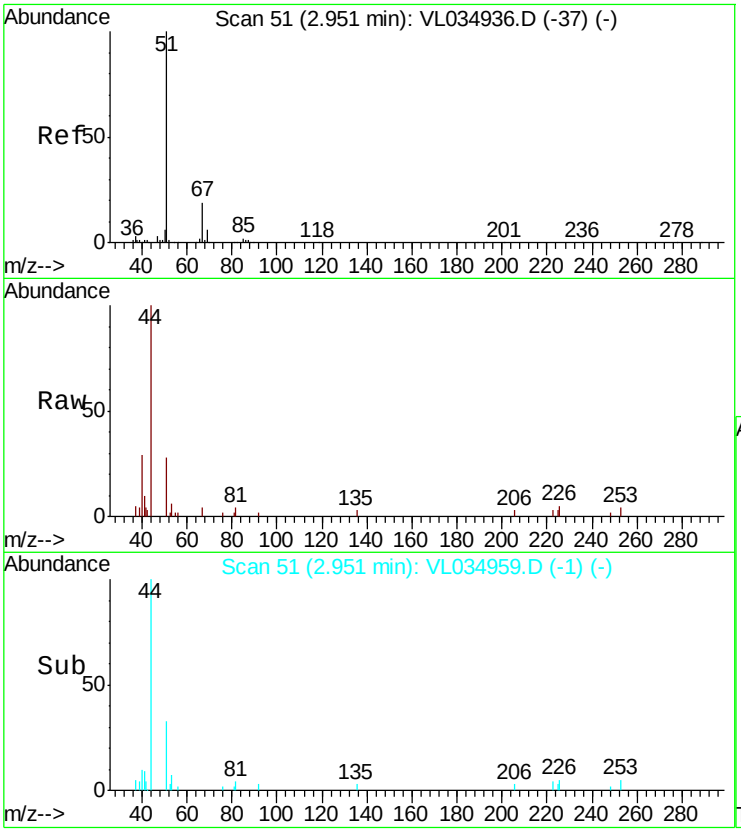




#2
Dichlorodifluoromethane
Concen: 0.051 ppbv
RT: 3.02 min Scan# 71
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 85 Resp: 8540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 16.6 | 26.2 | 39.2# |

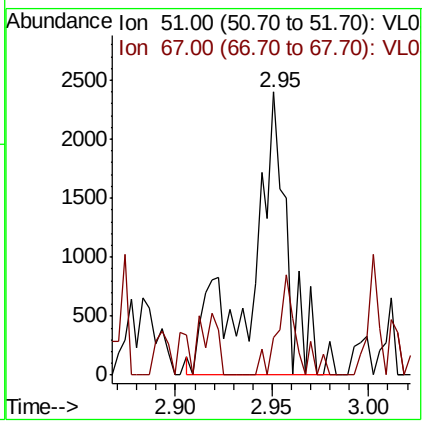




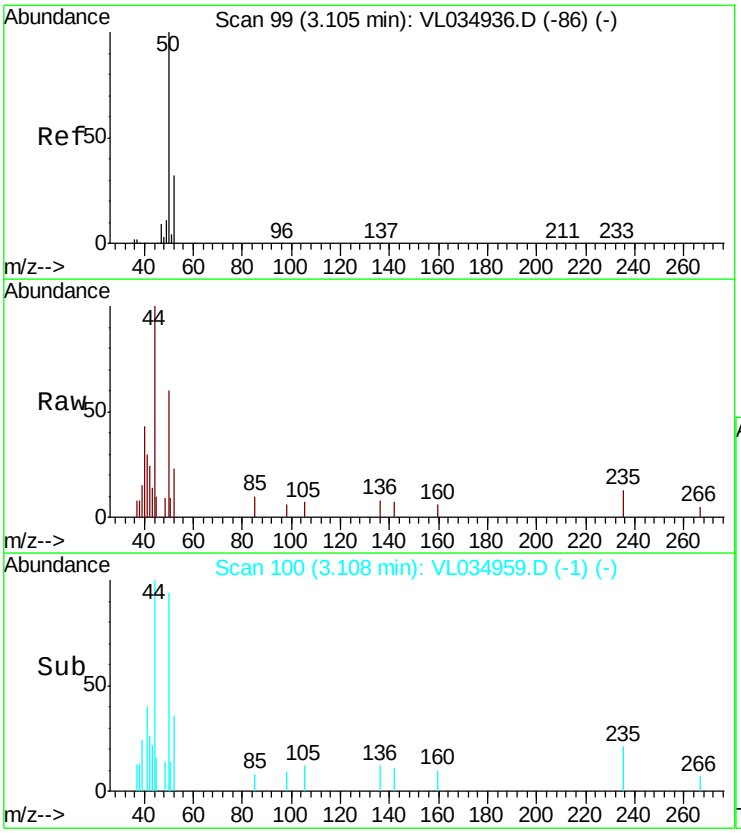

#3
Chlorodifluoromethane
Concen: 0.023 ppbv
RT: 2.95 min Scan# 51
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 51 Resp: 3094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.1 | 15.0 | 22.6 |



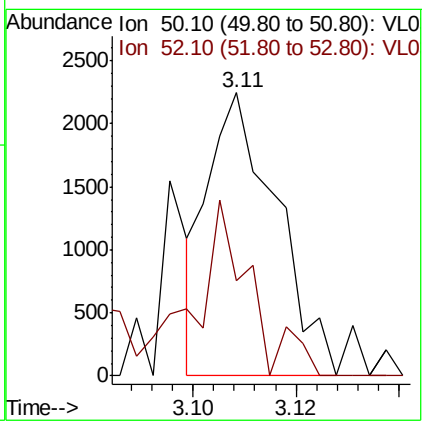

**Instrument :**
MSVOA_L
**ClientSampleId :**

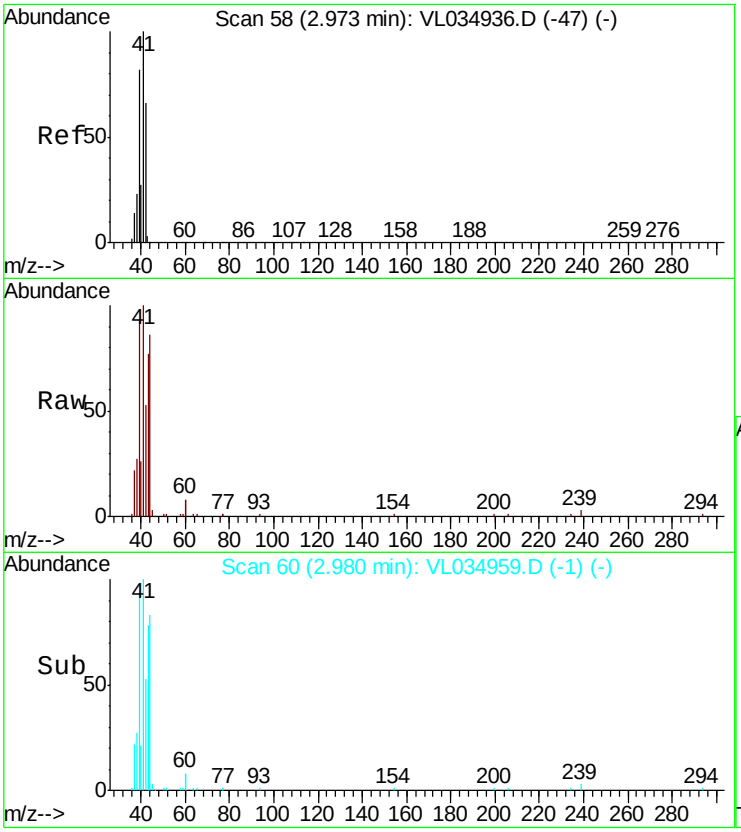



#4
Chloromethane
Concen: 0.027 ppbv
RT: 3.11 min Scan# 100
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 50 Resp: 2073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.6 | 25.4 | 38.2 |



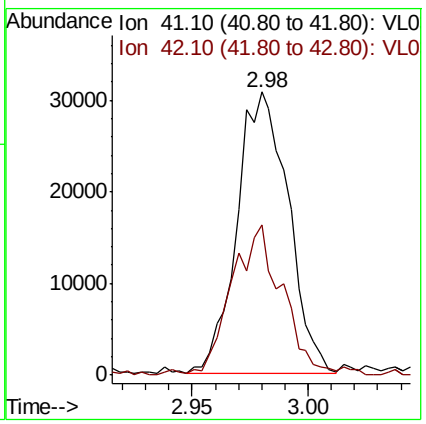


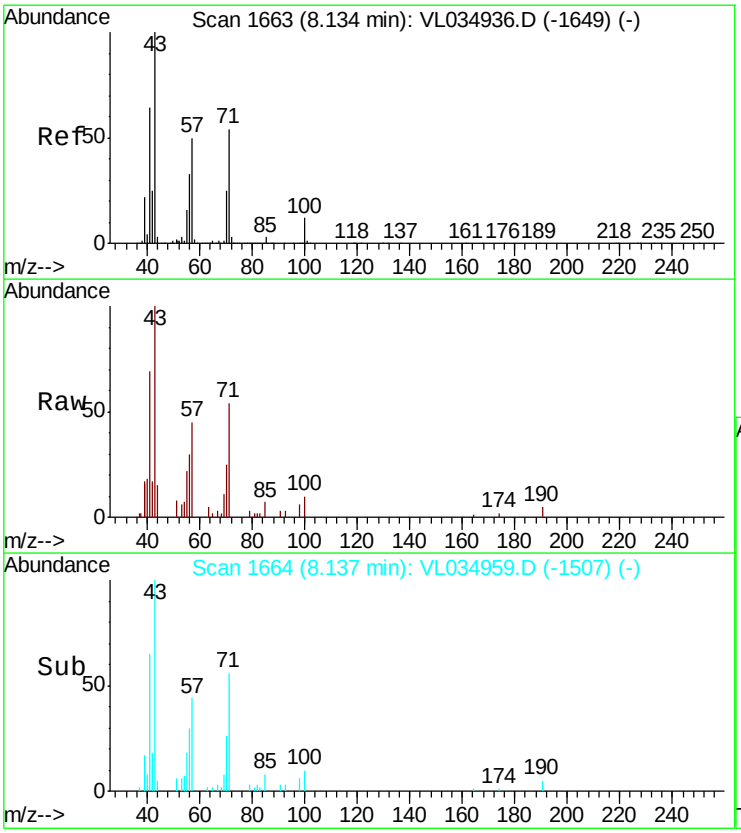

#9
Propene
Concen: 0.801 ppbv
RT: 2.98 min Scan# 60
Delta R.T. 0.01 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 41 Resp: 46954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 54.4 | 54.5 | 81.7# |

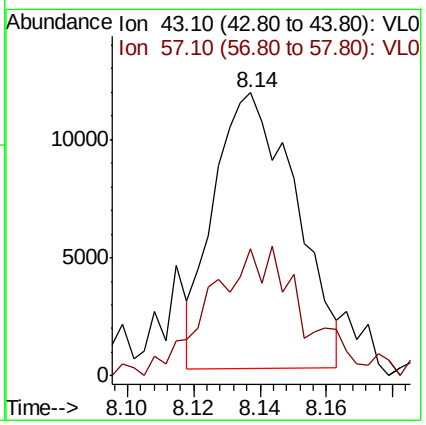


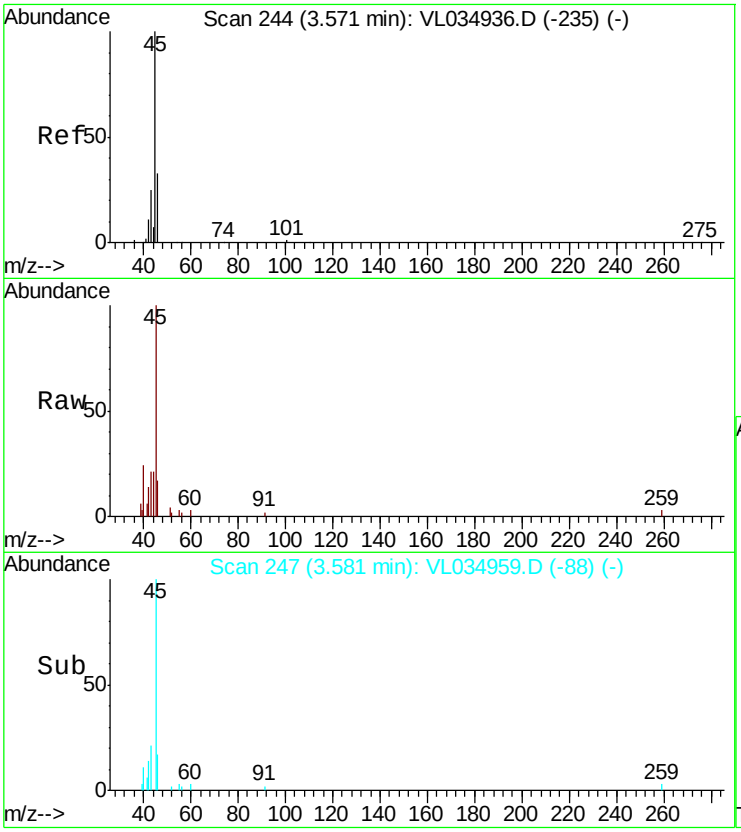




#10
Heptane
Concen: 0.136 ppbv
RT: 8.14 min Scan# 1664
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 43 Resp: 19952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 53.8 | 41.1 | 61.7 |



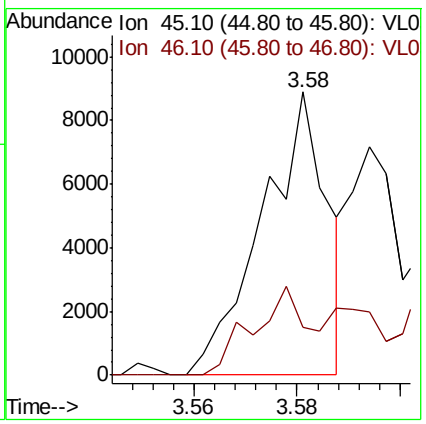


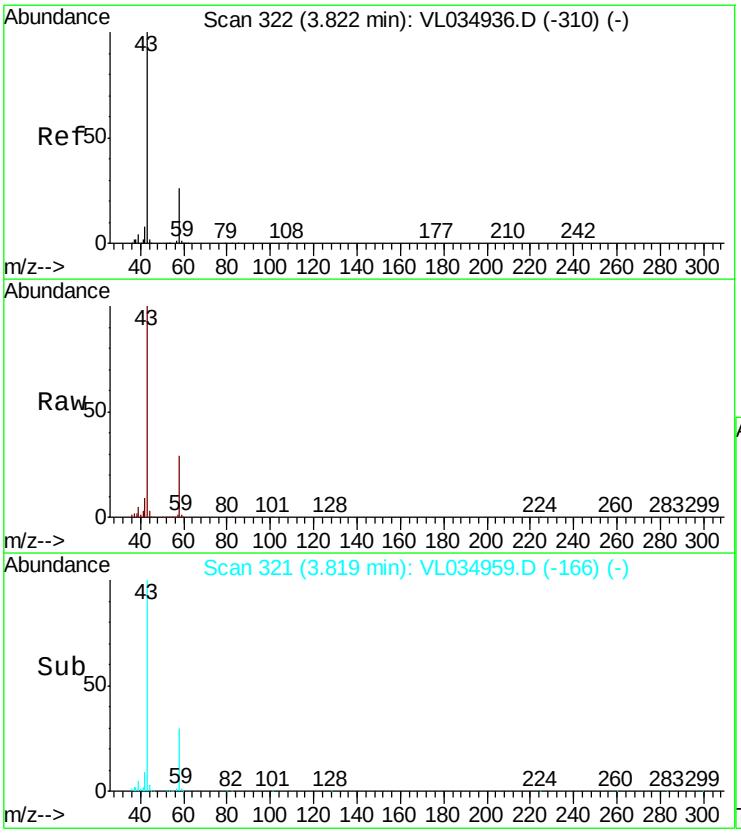

#13
Ethanol
Concen: 0.401 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 45 Resp: 7753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 63.8 | 14.3 | 57.3# |

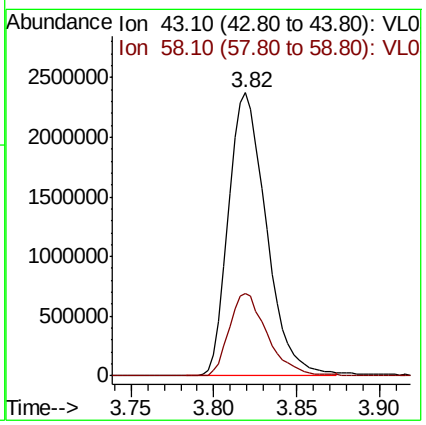


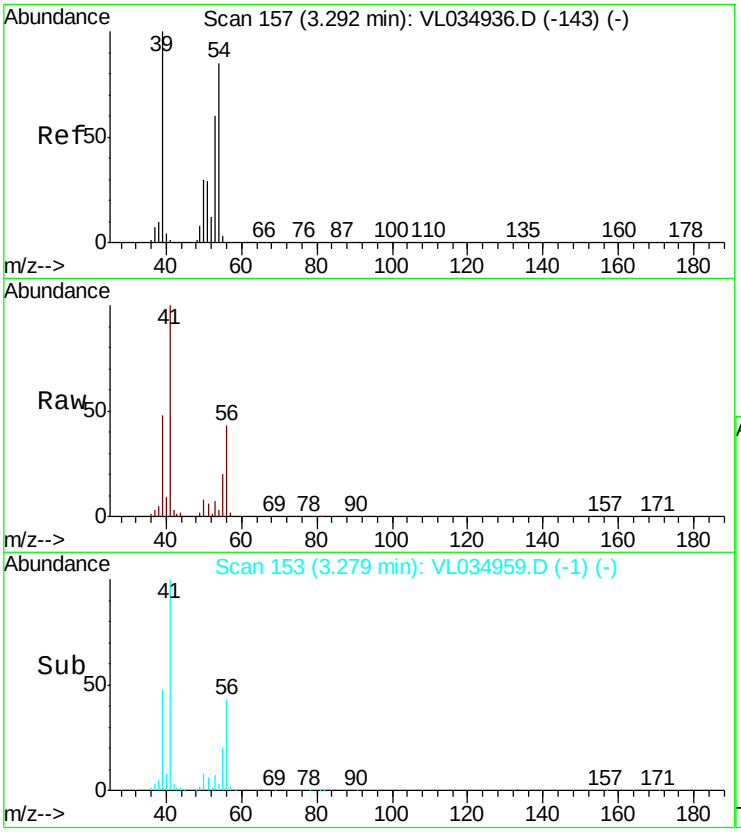




#15
Acetone
Concen: 24.132 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 43 Resp: 3772676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.5 | 21.7 | 32.5 |



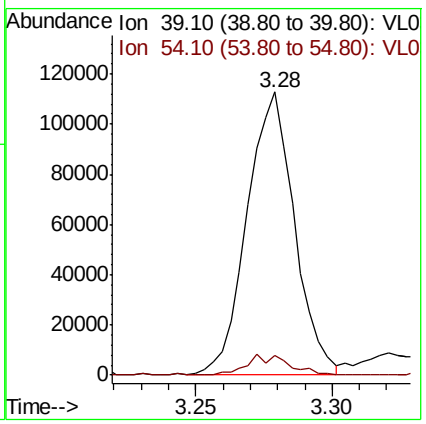


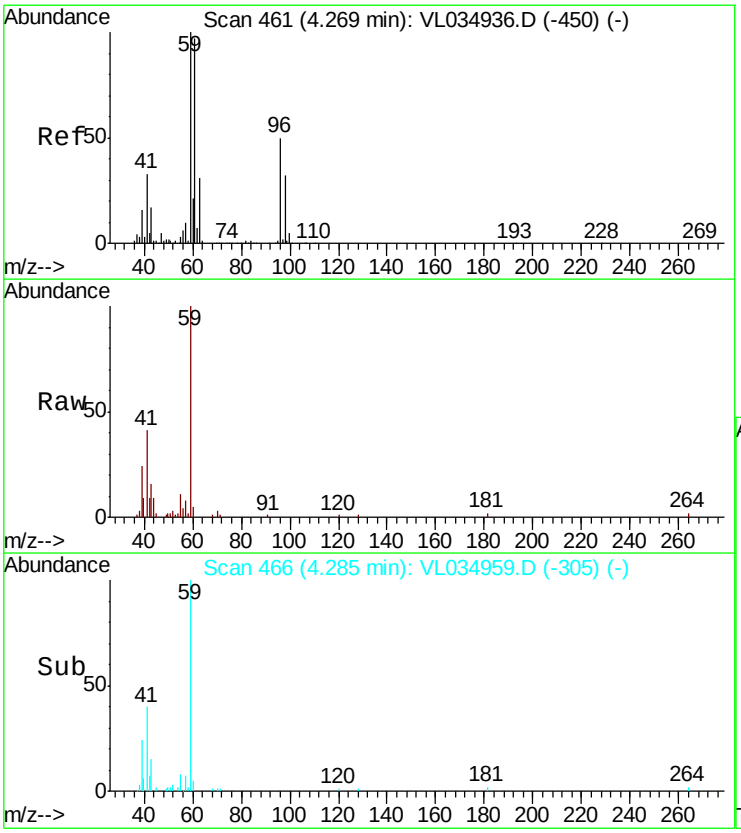

#16
1,3-Butadiene
Concen: 2.005 ppbv
RT: 3.28 min Scan# 153
Delta R.T. -0.01 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 39 Resp: 134873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 6.7 | 66.6 | 100.0# |

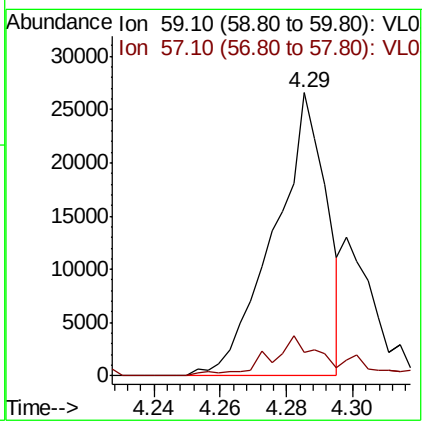


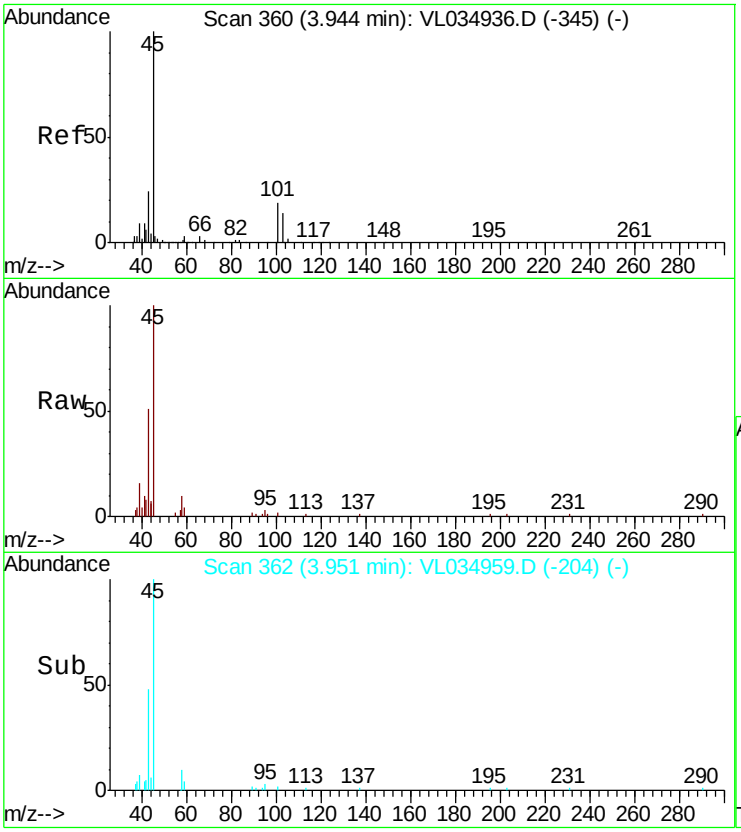




#17
tert-Butyl alcohol
Concen: 0.211 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.02 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 59 Resp: 29329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 18.1 | 8.7 | 13.1# |



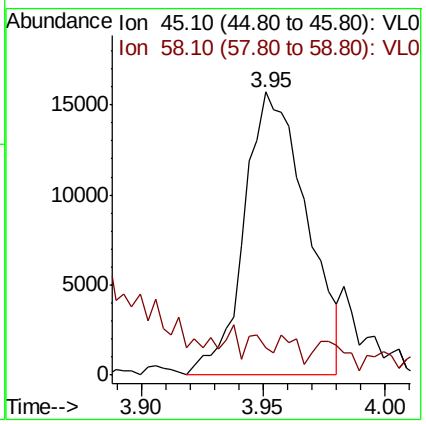


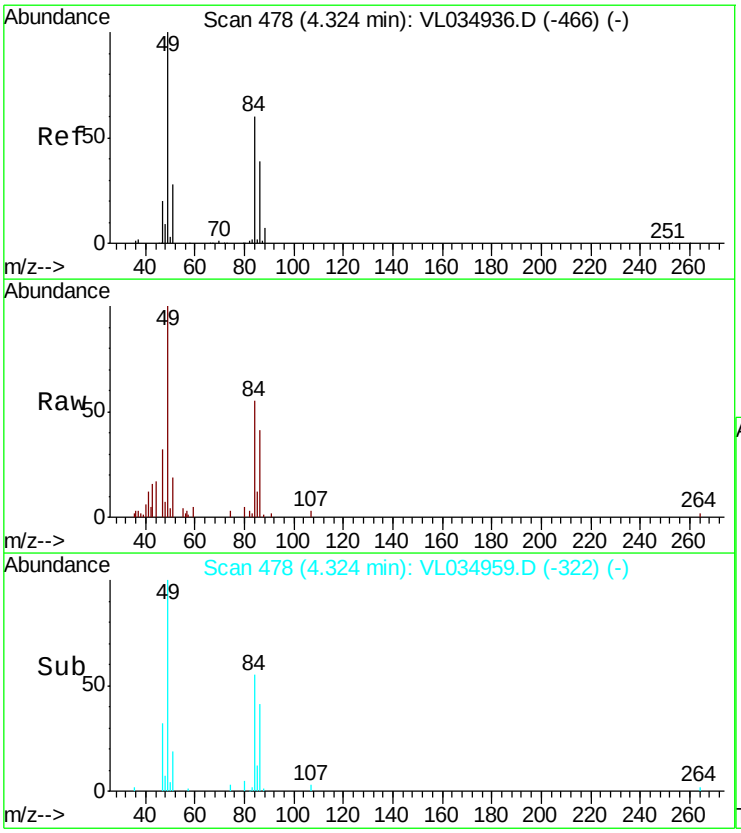

#19
Isopropyl Alcohol
Concen: 0.266 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 45 Resp: 27743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.0 | 1.7 | 2.5# |

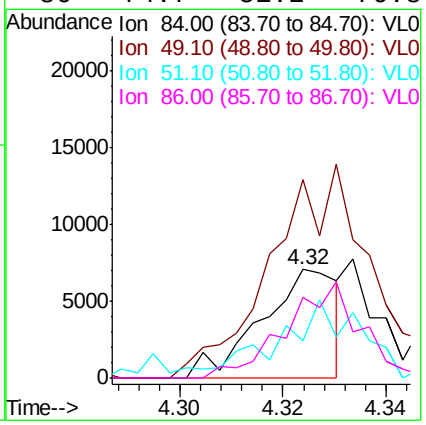


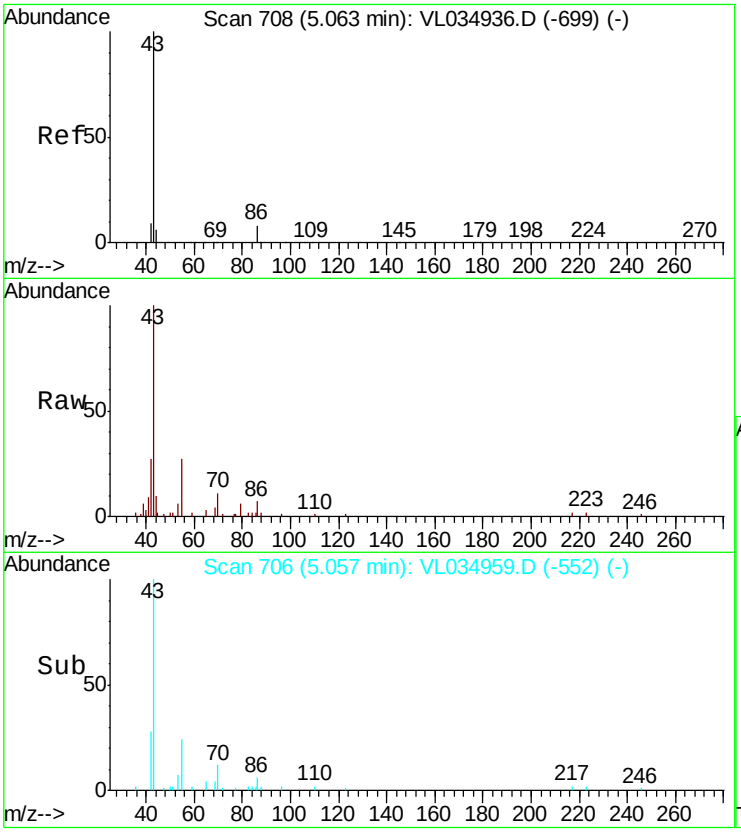




#20
Methylene Chloride
Concen: 0.139 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 84 Resp: 7188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 166.8 | 132.5 | 198.7 |
| 51 | 24.0 | 38.4 | 57.6# |
| 86 | 74.7 | 51.2 | 76.8 |



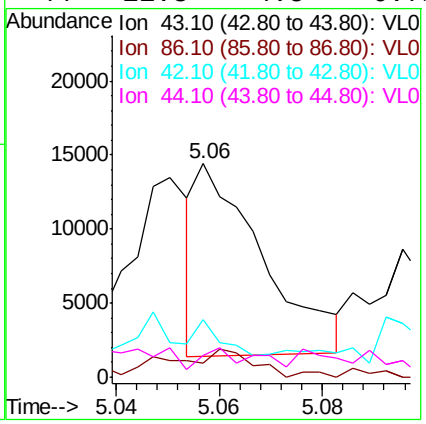


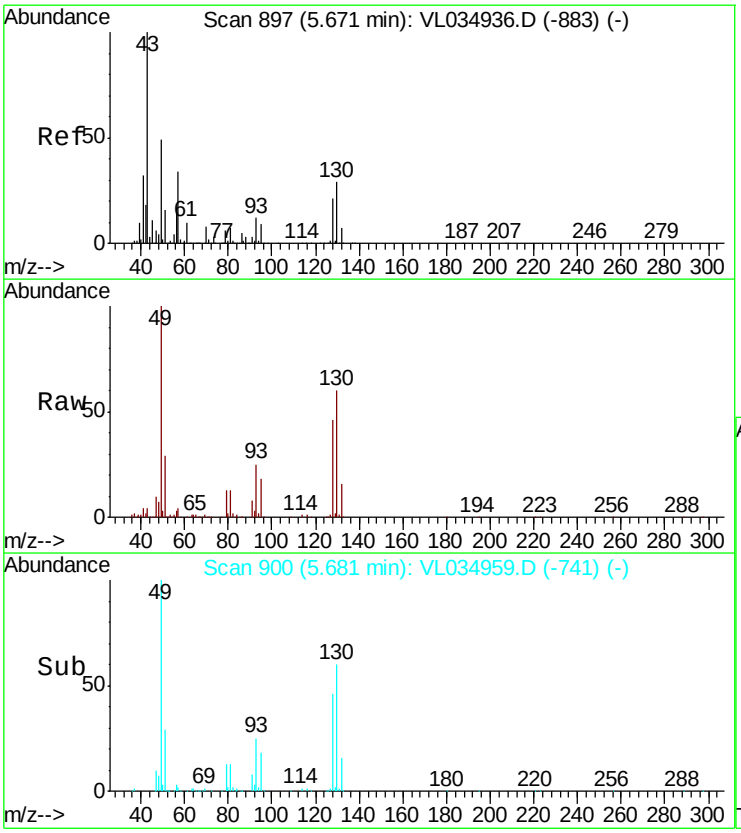

#23
Vinyl Acetate
Concen: 0.058 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.01 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 43 Resp: 11575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.3 | 5.5 | 8.3# |
| 42 | 21.3 | 8.0 | 12.0# |
| 44 | 11.3 | 4.5 | 6.7# |

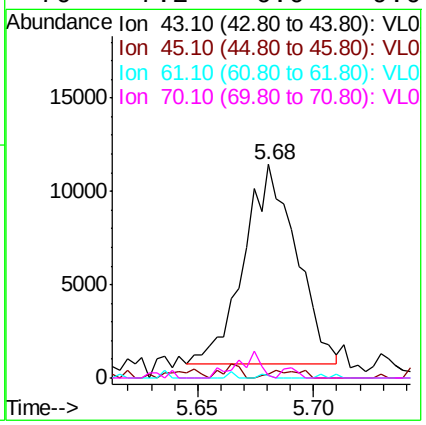


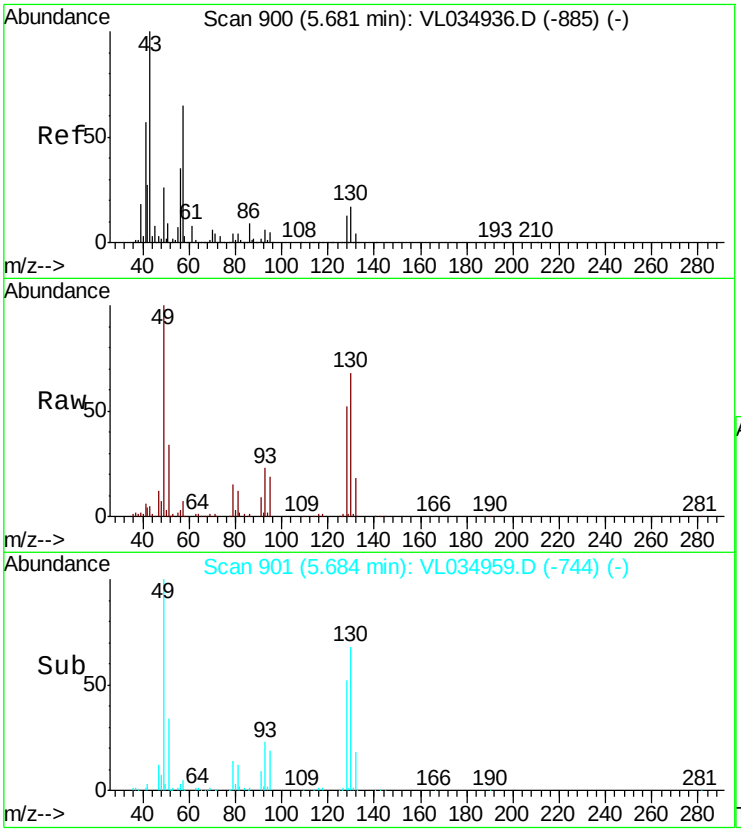




#25
Ethyl Acetate
Concen: 0.065 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 43 Resp: 16967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 4.4 | 8.1 | 12.1# |
| 61 | 0.8 | 7.8 | 11.8# |
| 70 | 7.2 | 6.0 | 9.0 |



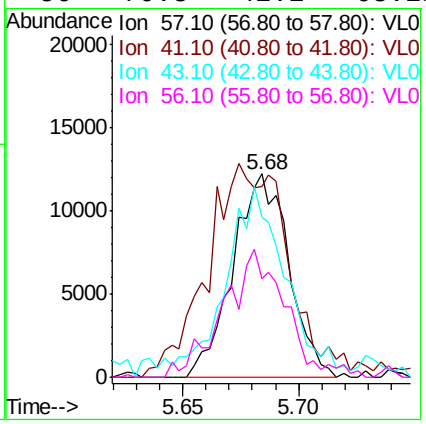


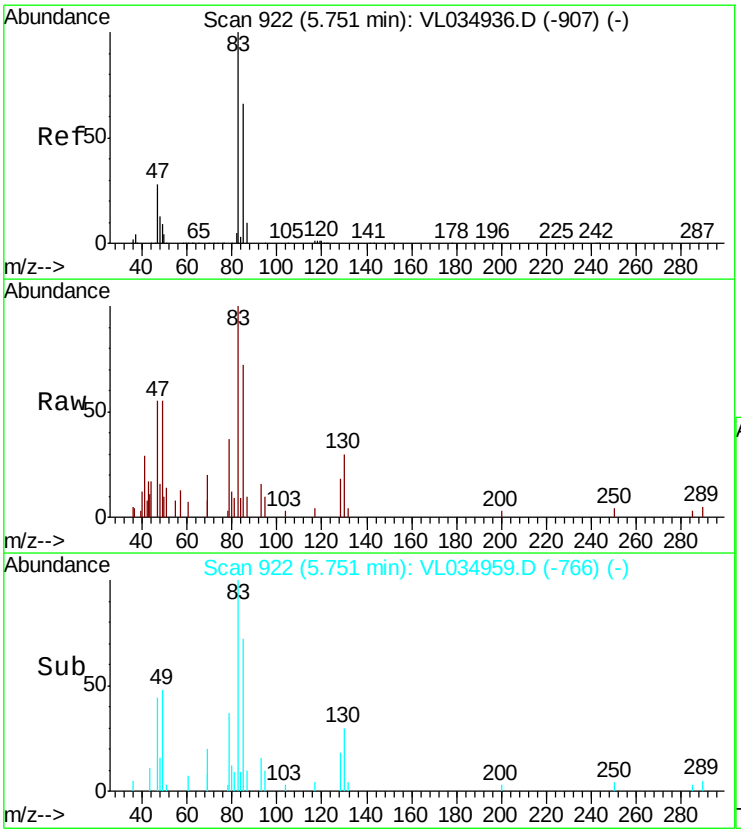

#26
Hexane
Concen: 0.179 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 57 Resp: 20379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 158.0 | 72.7 | 109.1# |
| 43 | 112.3 | 182.1 | 273.1# |
| 56 | 70.8 | 42.2 | 63.2# |

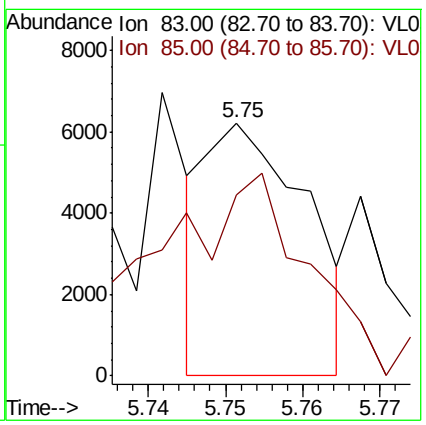


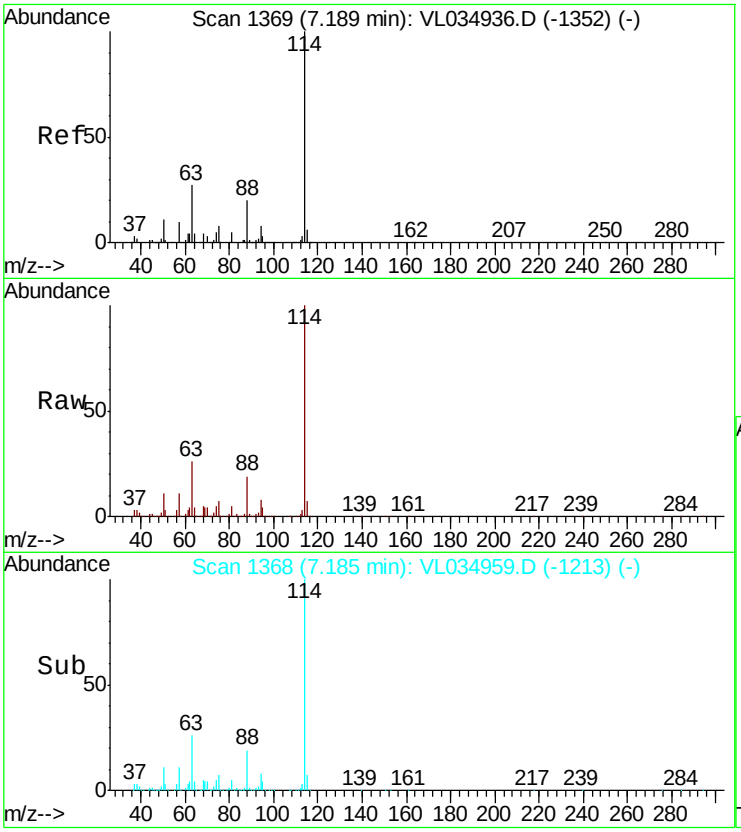




#29
Chloroform
Concen: 0.030 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 83 Resp: 5618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 57.2 | 53.0 | 79.6 |



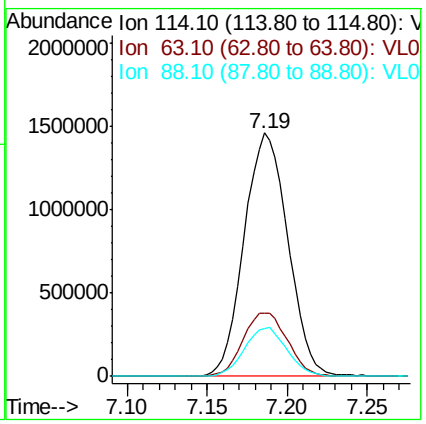


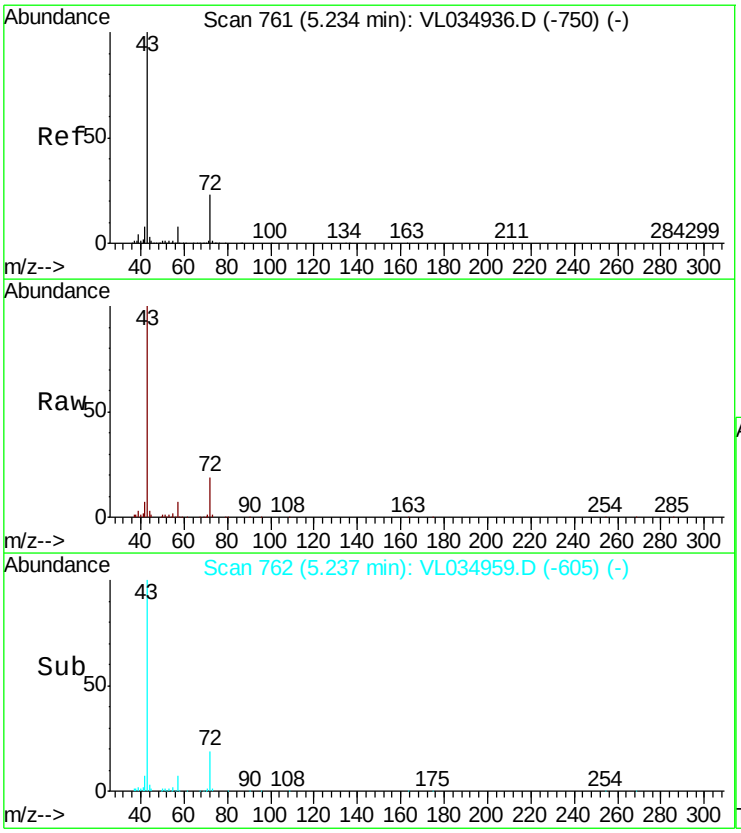

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion:114 Resp: 2737255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.6 | 22.2 | 33.4 |
| 88 | 19.4 | 15.5 | 23.3 |

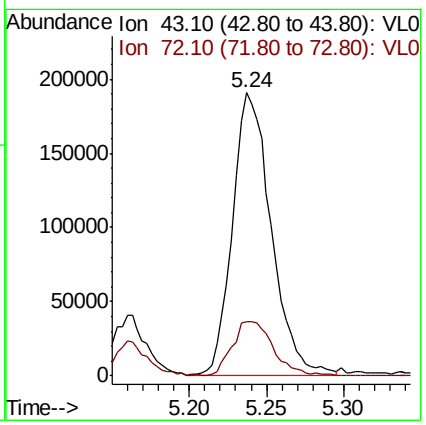


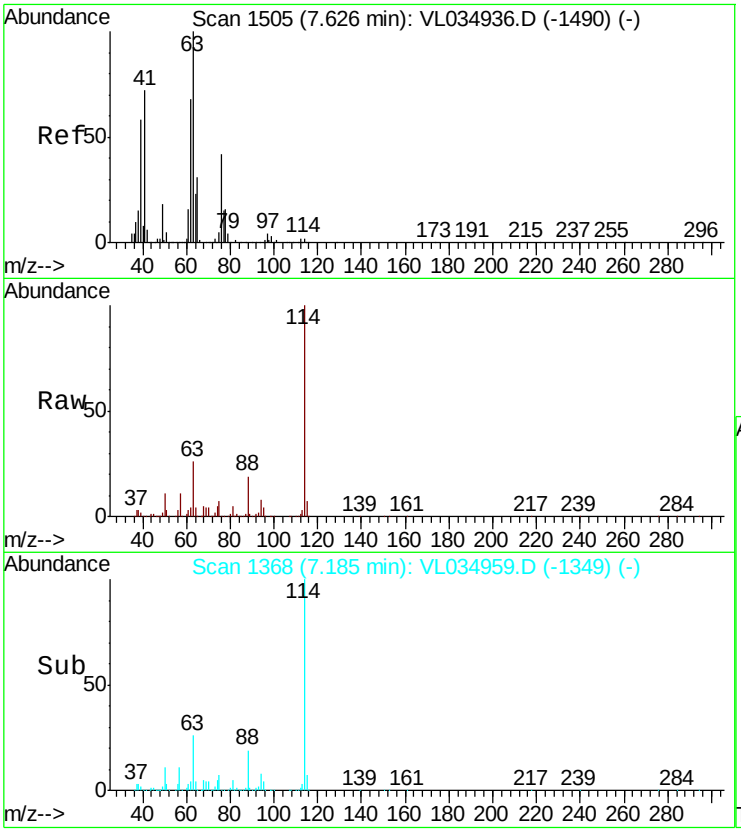




#34
2-Butanone
Concen: 1.941 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 43 Resp: 330238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.2 | 18.0 | 27.0 |



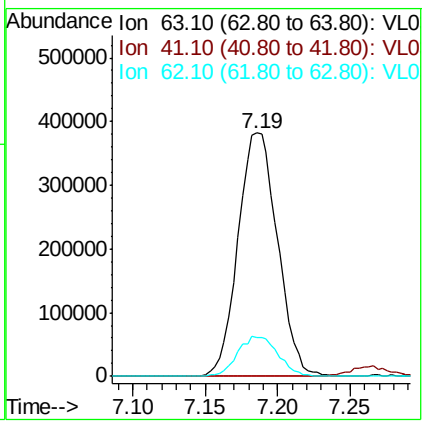


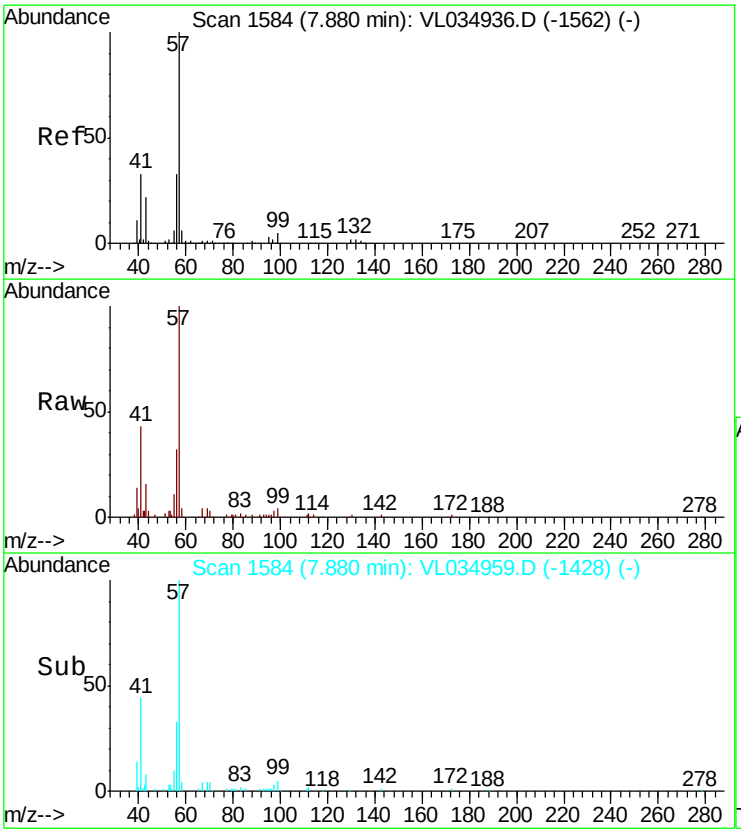

#39
1,2-Dichloropropane
Concen: 8.012 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.44 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 63 Resp: 724873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 57.8 | 86.8# |
| 62 | 15.7 | 54.2 | 81.2# |

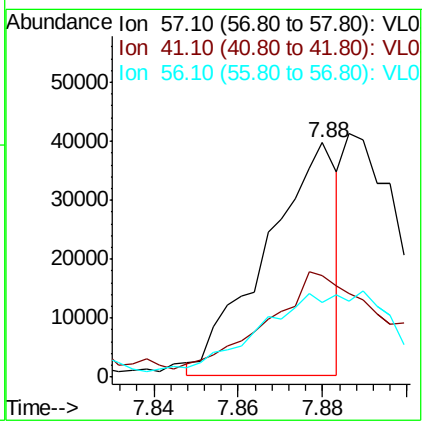


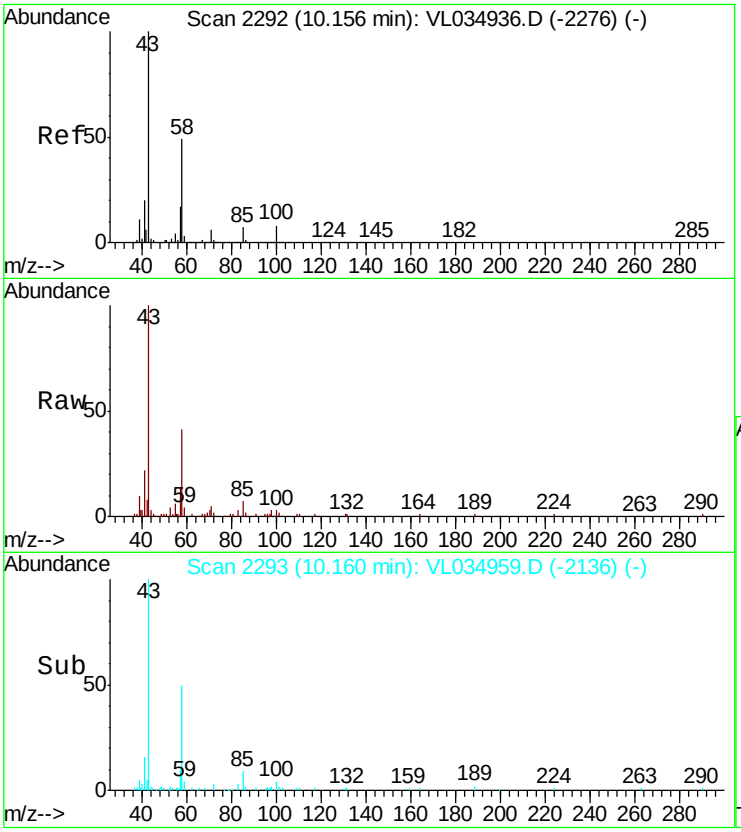




#44
2,2,4-Trimethylpentane
Concen: 0.115 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 57 Resp: 46118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 79.9 | 26.4 | 39.6# |
| 56 | 0.0 | 25.5 | 38.3# |



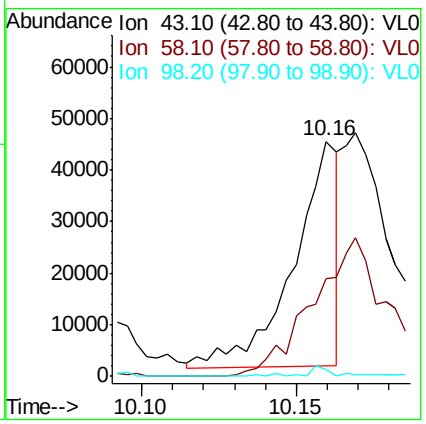


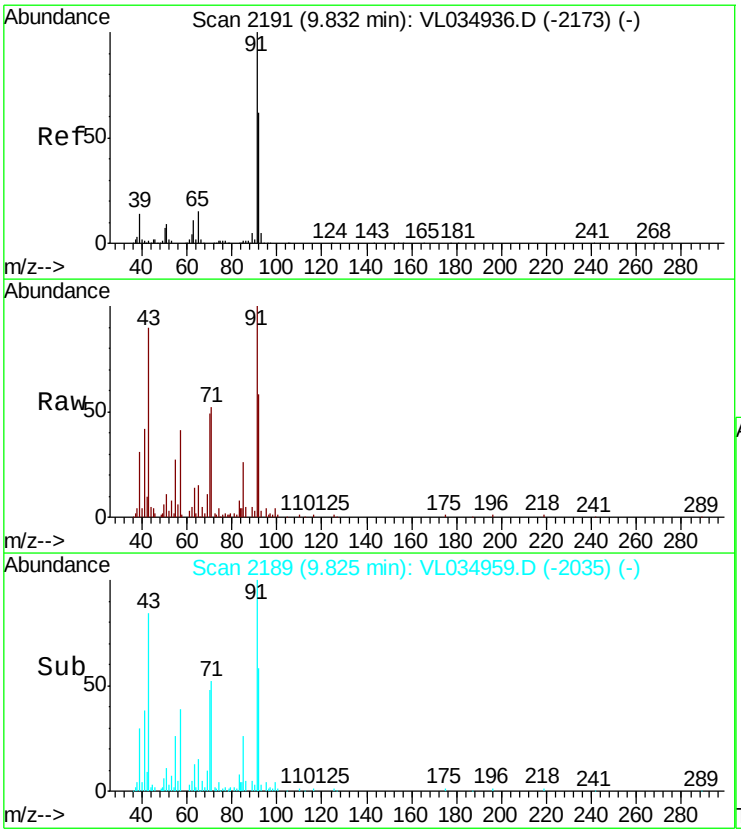

#51
2-Hexanone
Concen: 0.230 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 43 Resp: 43712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 39.1 | 58.7# |
| 98 | 2.3 | 0.3 | 0.5# |

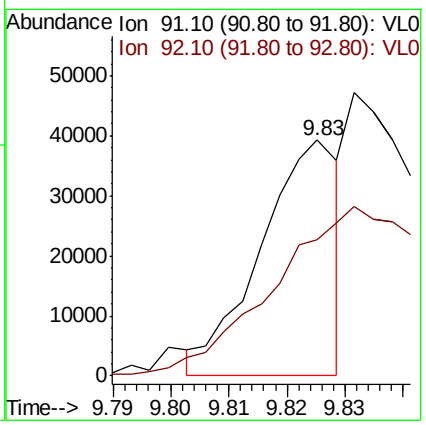


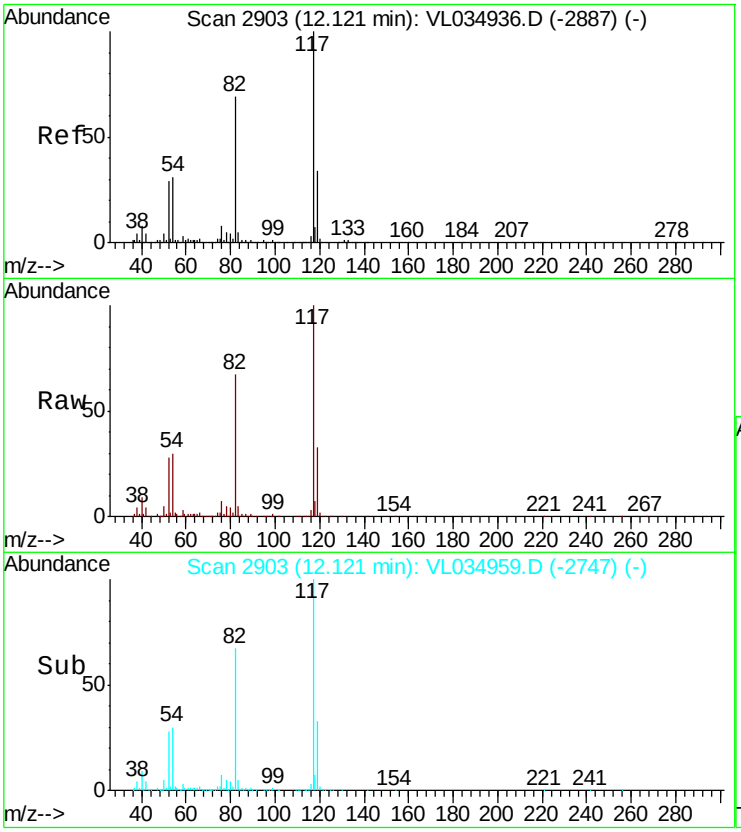




#53
Toluene
Concen: 0.154 ppbv
RT: 9.83 min Scan# 2189
Delta R.T. -0.01 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 91 Resp: 36843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 0.0 | 48.6 | 73.0# |



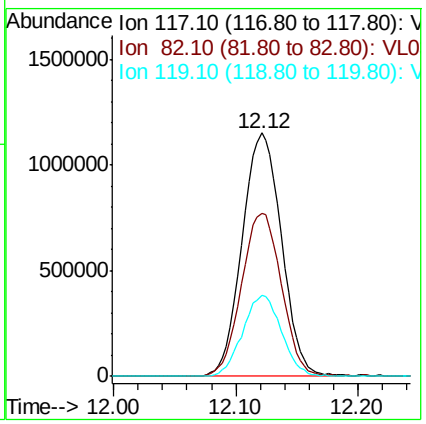


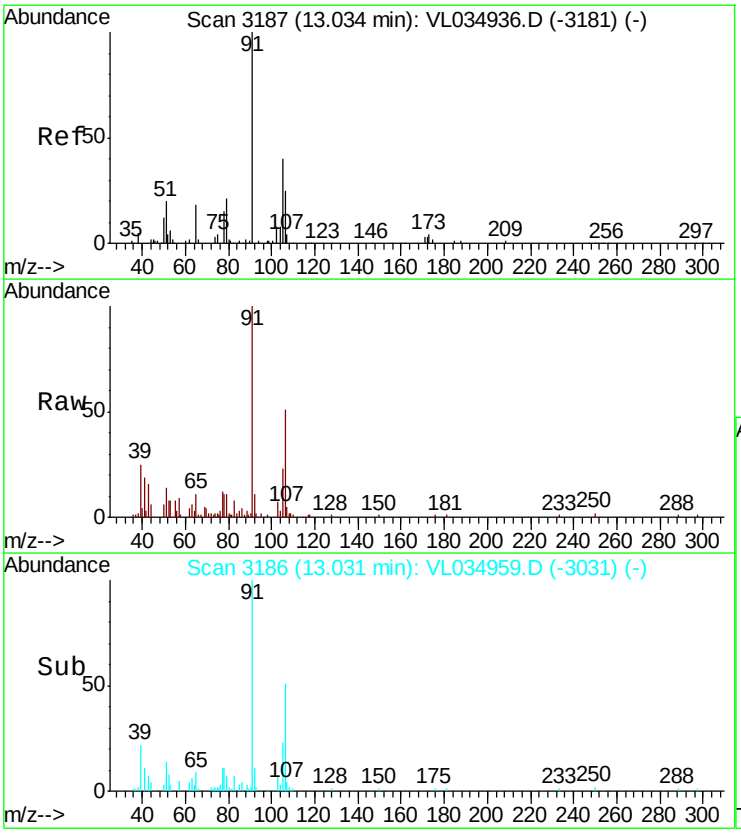

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion:117 Resp: 2566045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.1 | 53.1 | 79.7 |
| 119 | 32.9 | 26.7 | 40.1 |

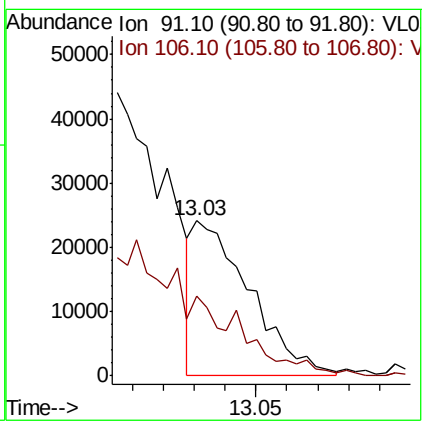


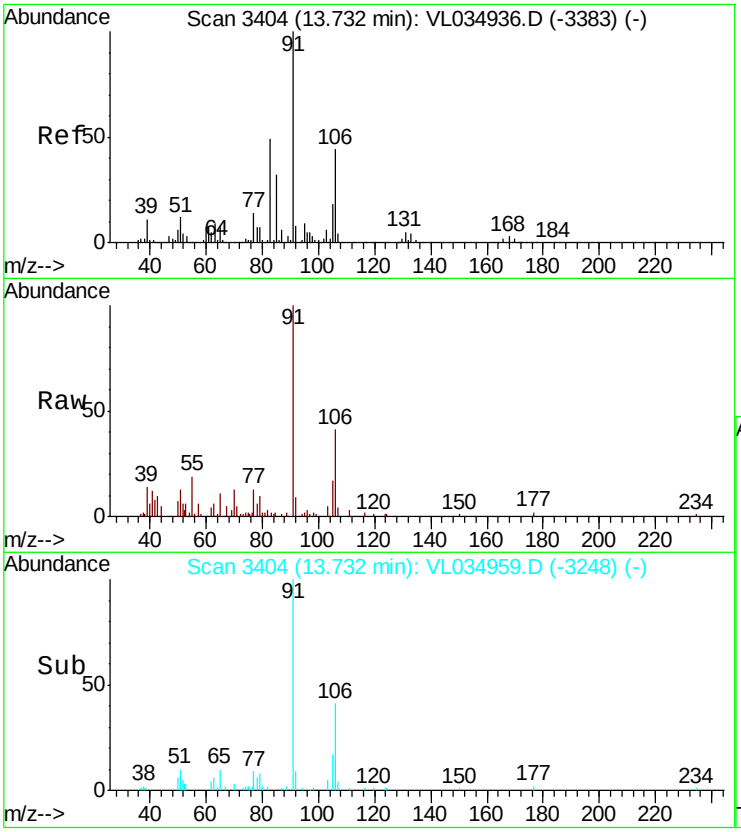




#59
m/p-Xylene
Concen: 0.110 ppbv
RT: 13.03 min Scan# 3186
Delta R.T. -0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 91 Resp: 30725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 66.0 | 99.0# |



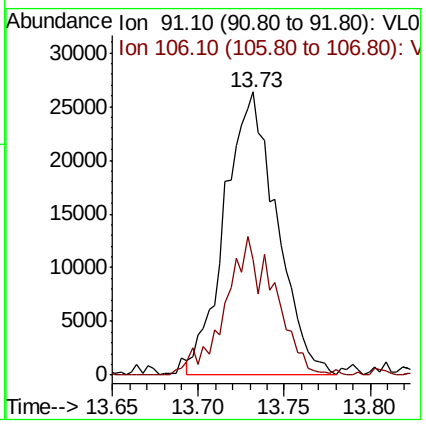


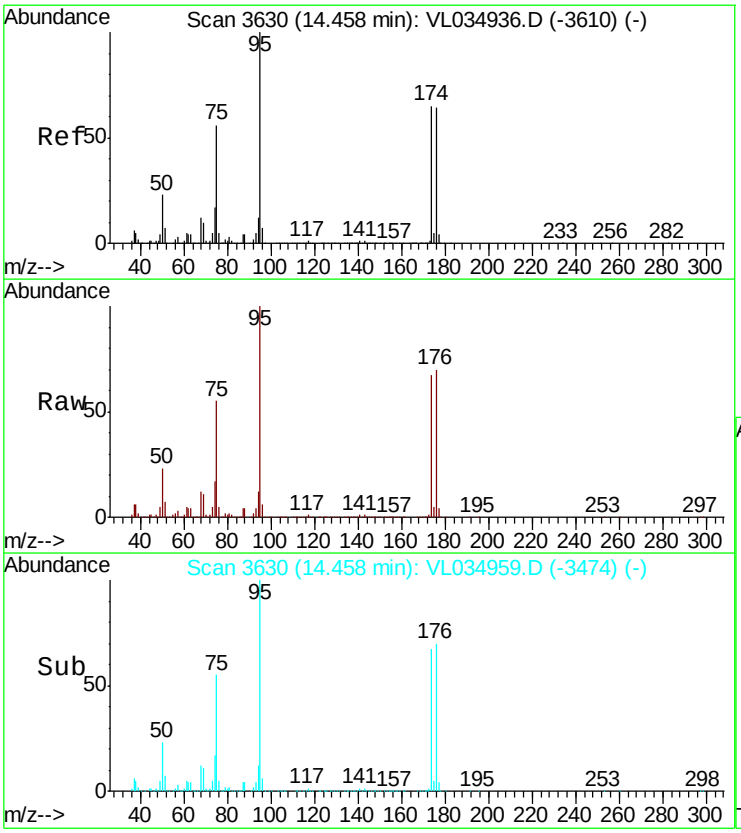

#60
o-Xylene
Concen: 0.201 ppbv
RT: 13.73 min Scan# 3404
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion: 91 Resp: 55279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.9 | 21.9 | 65.5 |

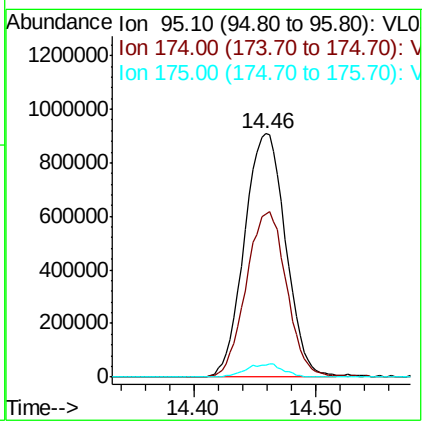


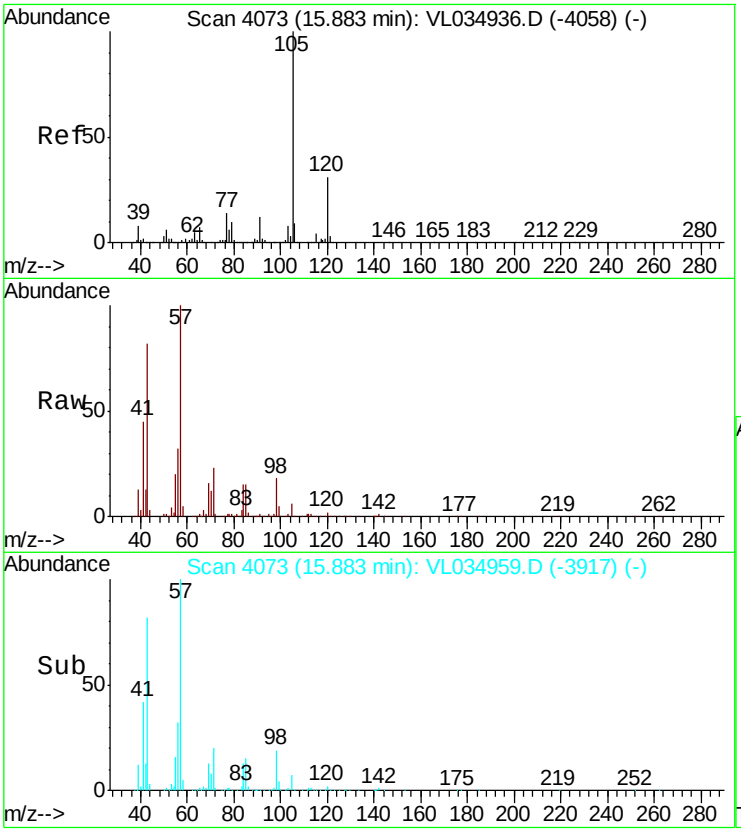




#68
1-Bromo-4-Fluorobenzene
Concen: 10.220 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion: 95 Resp: 2122693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.9 | 51.5 | 77.3 |
| 175 | 5.0 | 3.8 | 5.8 |



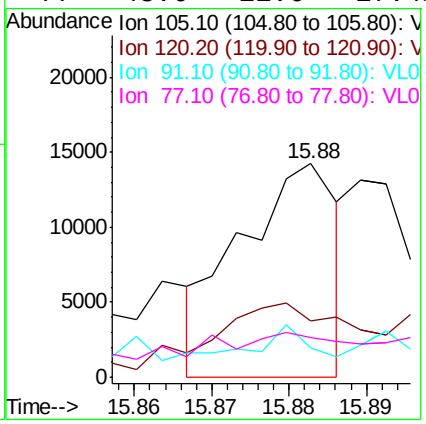


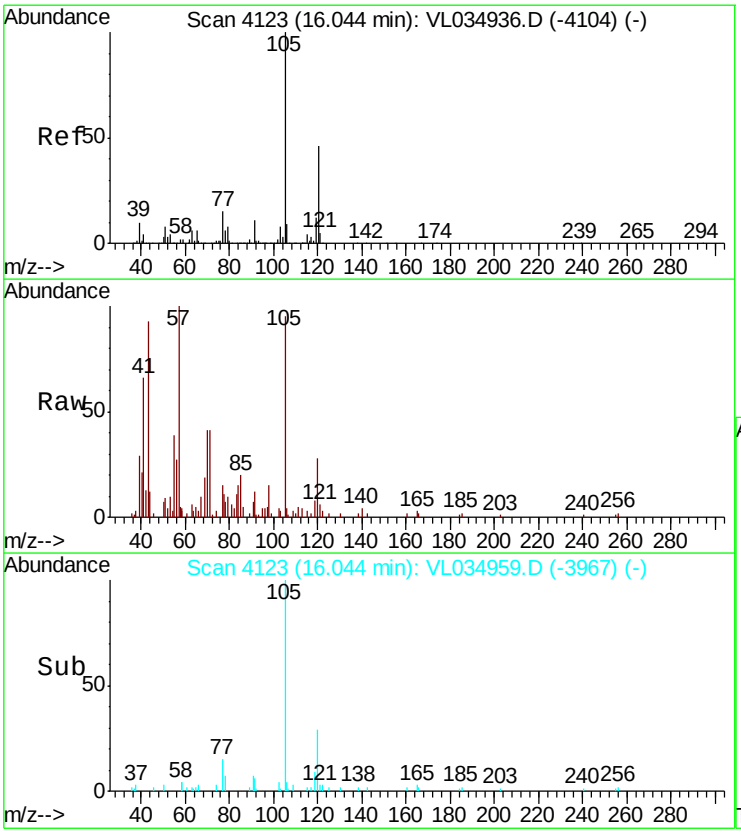

#72
4-Ethyltoluene
Concen: 0.041 ppbv
RT: 15.88 min Scan# 4073
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion:105 Resp: 12469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 79.8 | 23.8 | 35.8# |
| 91 | 67.8 | 10.6 | 15.8# |
| 77 | 48.6 | 11.6 | 17.4# |

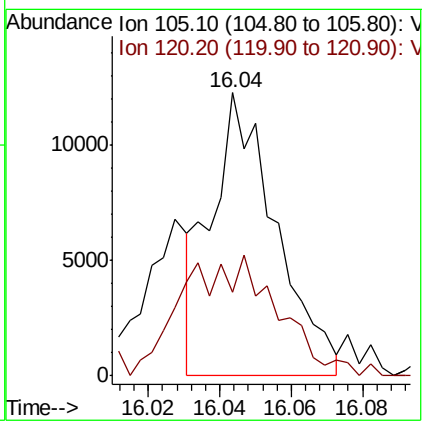


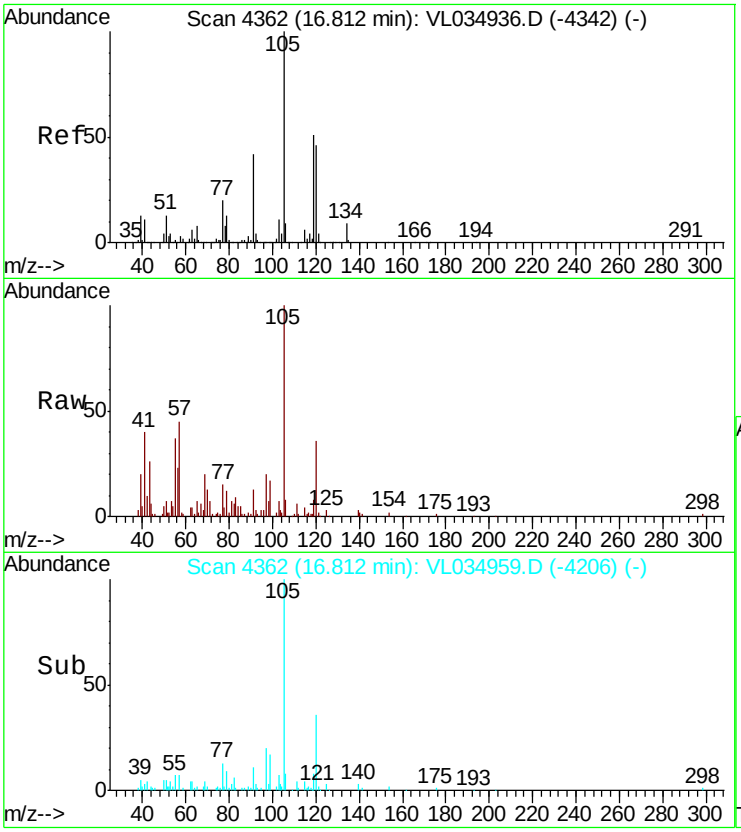




#73
1,3,5-Trimethylbenzene
Concen: 0.051 ppbv
RT: 16.04 min Scan# 4123
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

Tgt Ion:105 Resp: 15362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.8 | 36.4 | 54.6# |






#74
1,2,4-Trimethylbenzene
Concen: 0.255 ppbv
RT: 16.81 min Scan# 4362
Delta R.T. 0.00 min
Lab File: VL034959.D
Acq: 7 May 2020 7:26

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

Tgt Ion:105 Resp: 83362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 35.6 | 36.8 | 55.2# |
| 91 | 10.5 | 35.4 | 53.0# |
| 77 | 12.9 | 16.2 | 24.2# |