Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040722\
Data File : VL038844.D
Acq On : 7 Apr 2022 16:55
Operator : SY/AP
Sample : N2273-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** 1160-1A-1

Quant Time: Apr 08 05:24:17 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.69 | 49 | 1287908 | 10.00 | ppbv | | 0.03 |
| 33) 1,4-Difluorobenzene | 7.19 | 114 | 3174755 | 10.00 | ppbv | | 0.02 |
| 55) Chlorobenzene-d5 | 12.10 | 117 | 2774519 | 10.00 | ppbv | | 0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.43 | 95 | 2166372 | 10.29 | ppbv | | 0.03 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 102.90% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.07 | 85 | 52286 | 0.286 | ppbv | | 93 |
| 3) Chlorodifluoromethane | 3.01 | 51 | 66983 | 0.426 | ppbv | | 94 |
| 4) Chloromethane | 3.16 | 50 | 36094 | 0.443 | ppbv | # | 72 |
| 9) Propene | 3.22 | 41 | 131962 | 1.587 | ppbv | | 93 |
| 10) Heptane | 8.14 | 43 | 104583 | 0.499 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 3.97 | 101 | 35584 | 0.242 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 5482 | 0.049 | ppbv | # | 58 |
| 13) Ethanol | 3.62 | 45 | 88305 | 17.473 | ppbv | # | 100 |
| 15) Acetone | 3.86 | 43 | 3019629 | 23.550 | ppbv | | 97 |
| 16) 1,3-Butadiene | 3.33 | 39 | 24641 | 0.336 | ppbv | # | 48 |
| 19) Isopropyl Alcohol | 3.99 | 45 | 121511 | 1.854 | ppbv | # | 100 |
| 20) Methylene Chloride | 4.37 | 84 | 156949 | 3.375 | ppbv | | 89 |
| 23) Vinyl Acetate | 5.09 | 43 | 7041 | 0.056 | ppbv | # | 1 |
| 25) Ethyl Acetate | 5.71 | 43 | 418112 | 1.285 | ppbv | # | 92 |
| 26) Hexane | 5.71 | 57 | 168826 | 1.140 | ppbv | # | 59 |
| 30) Cyclohexane | 7.15 | 84 | 15341 | 0.118 | ppbv | # | 17 |
| 34) 2-Butanone | 5.27 | 43 | 114991 | 0.917 | ppbv | | 92 |
| 36) Benzene | 6.91 | 78 | 94575 | 0.327 | ppbv | | 96 |
| 39) 1,2-Dichloropropane | 7.19 | 63 | 818195 | 7.407 | ppbv | # | 27 |
| 44) 2,2,4-Trimethylpentane | 7.89 | 57 | 73585 | 0.150 | ppbv | # | 1 |
| 50) 4-Methyl-2-Pentanone | 8.77 | 43 | 38011 | 0.135 | ppbv | # | 39 |
| 51) 2-Hexanone | 10.07 | 43 | 9508 | 0.045 | ppbv | # | 47 |
| 52) Tetrachloroethene | 11.25 | 164 | 36434 | 0.361 | ppbv | | 90 |
| 53) Toluene | 9.82 | 91 | 901119 | 2.703 | ppbv | | 98 |
| 58) Ethyl Benzene | 12.73 | 91 | 178528 | 0.431 | ppbv | | 89 |
| 59) m/p-Xylene | 12.99 | 91 | 18334 | 0.053 | ppbv | # | 1 |
| 60) o-Xylene | 13.71 | 91 | 178935 | 0.549 | ppbv | | 99 |
| 61) Styrene | 13.55 | 104 | 164169 | 0.827 | ppbv | | 93 |
| 72) 4-Ethyltoluene | 15.87 | 105 | 13507 | 0.035 | ppbv | # | 55 |
| 74) 1,2,4-Trimethylbenzene | 16.79 | 105 | 29387 | 0.080 | ppbv | # | 64 |

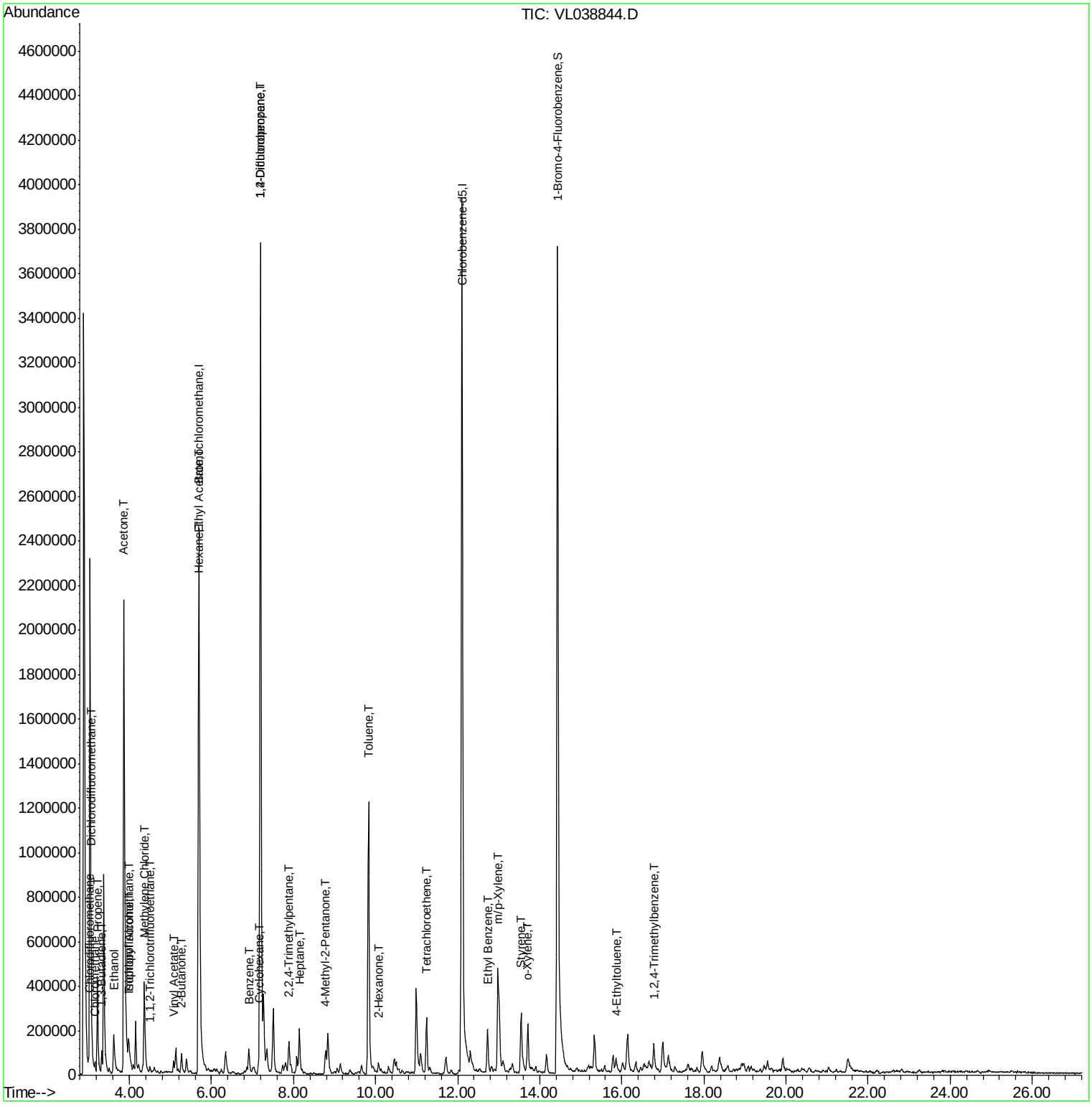
(#) = qualifier out of range (m) = manual integration (+) = signals summed

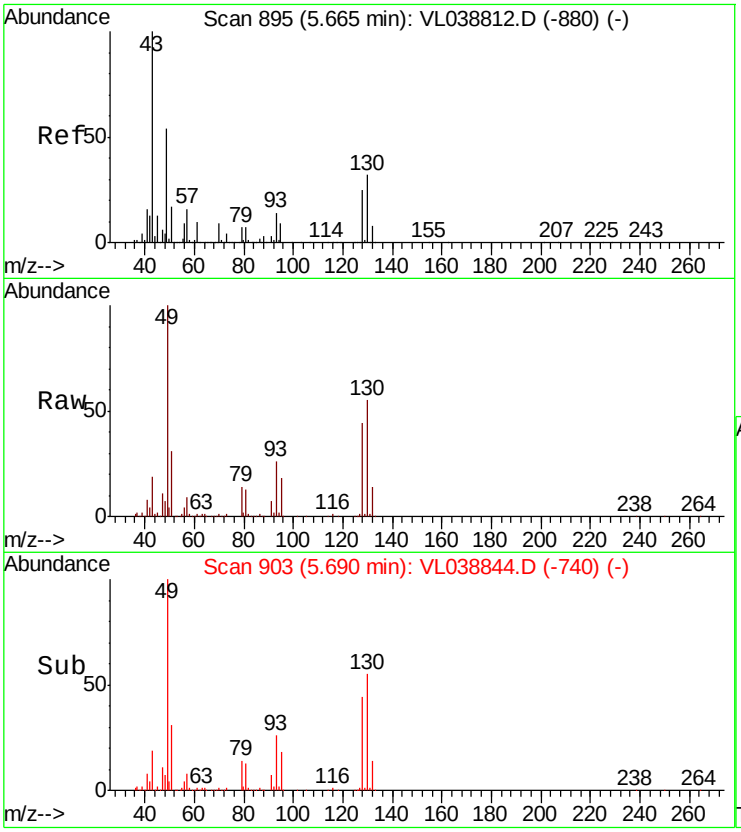
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040722\
Data File : VL038844.D
Acq On : 7 Apr 2022 16:55
Operator : SY/AP
Sample : N2273-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Quant Time: Apr 08 05:24:17 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration



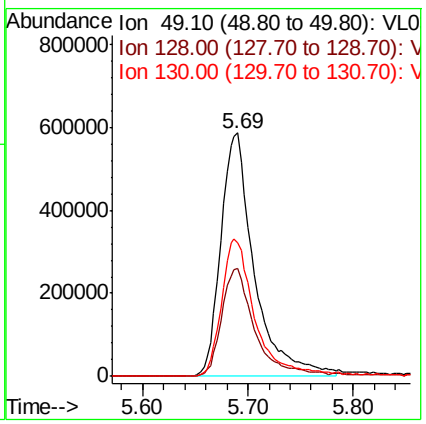


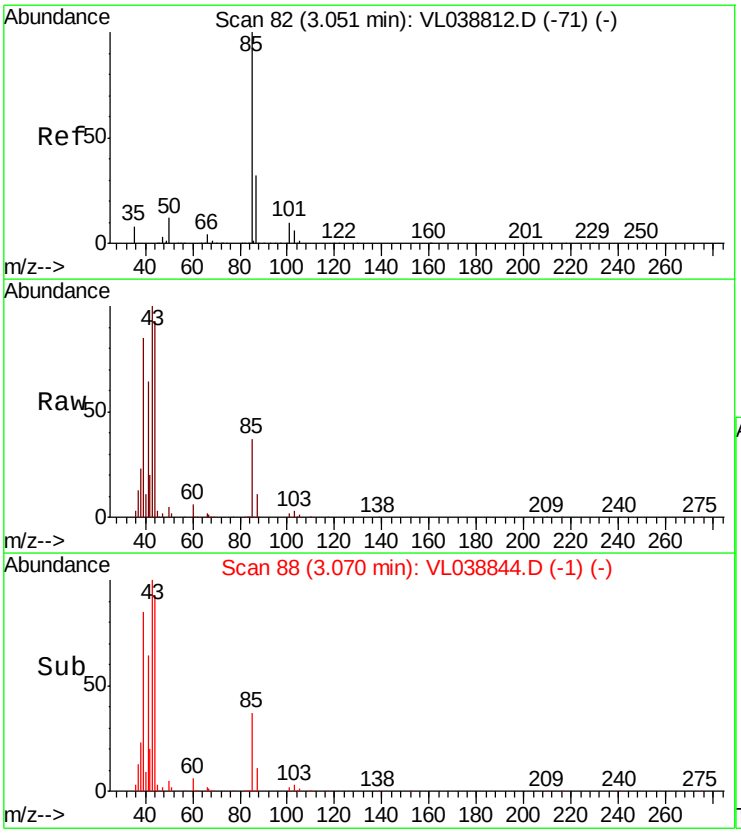

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 49 Resp: 1287908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 24.1 | 72.3 |
| 130 | 57.7 | 30.9 | 92.8 |

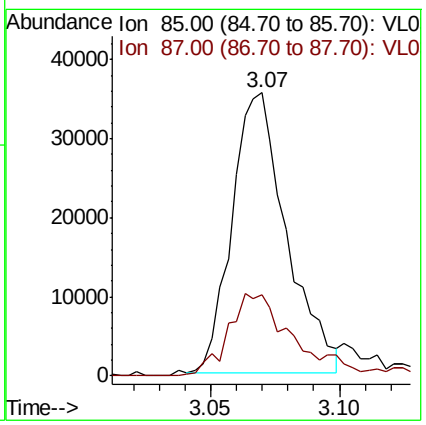


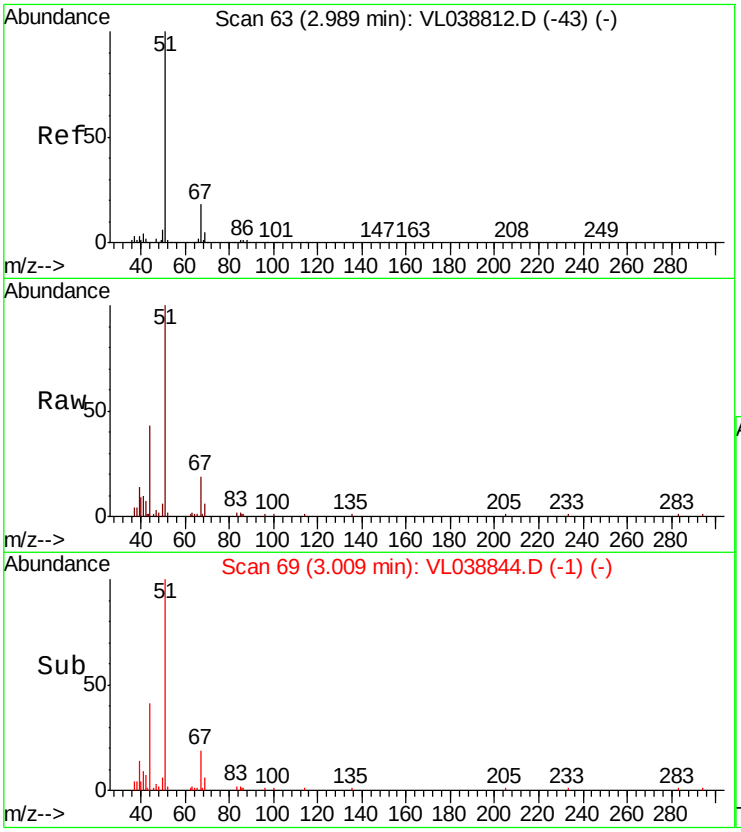




#2
Dichlorodifluoromethane
Concen: 0.286 ppbv
RT: 3.07 min Scan# 88
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 85 Resp: 52286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 28.7 | 25.9 | 38.9 |



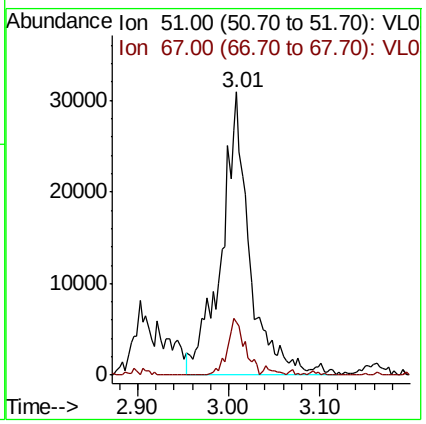


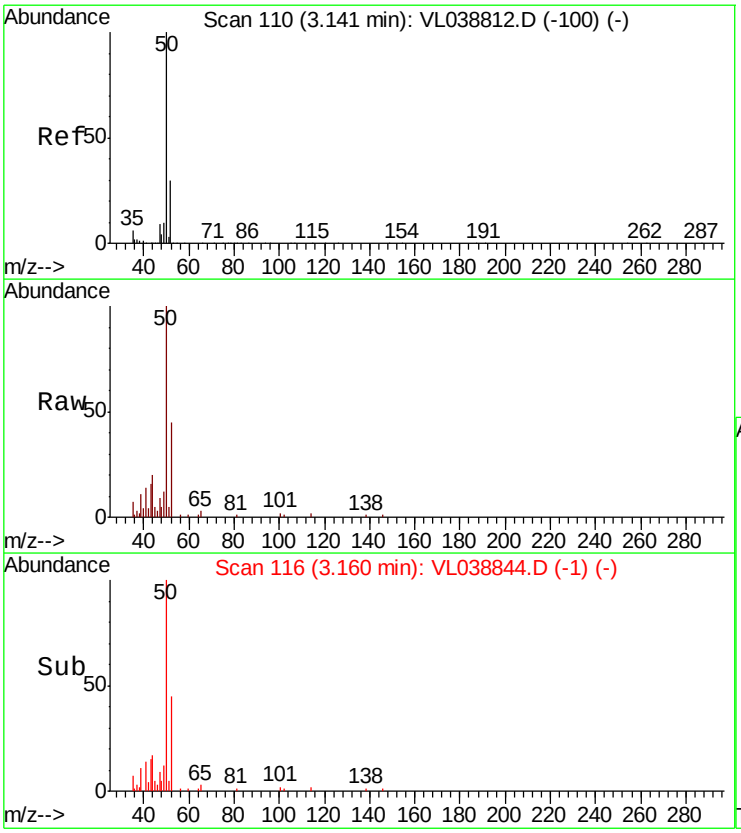

#3
Chlorodifluoromethane
Concen: 0.426 ppbv
RT: 3.01
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 51 Resp: 66983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 14.1 | 13.4 | 20.0 |

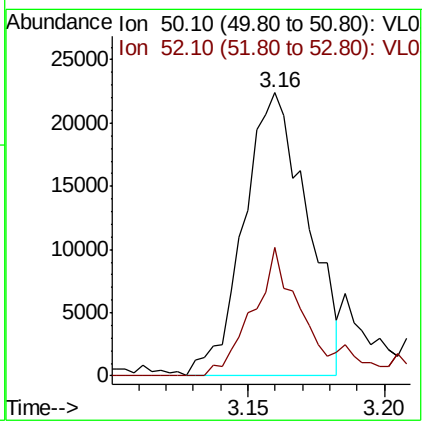


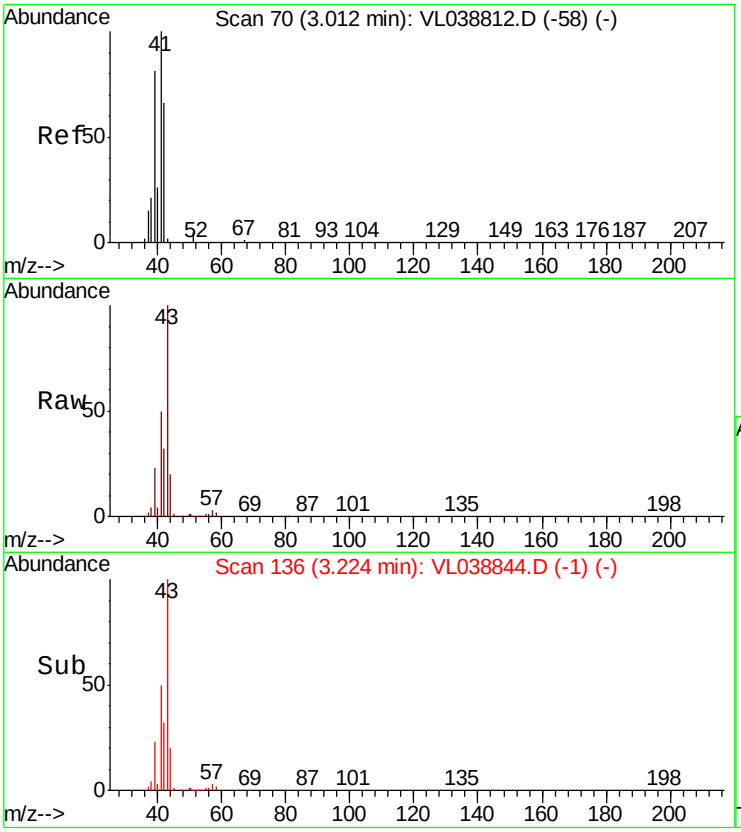




#4
Chloromethane
Concen: 0.443 ppbv
RT: 3.16 min Scan# 116
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 50 Resp: 36094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 45.5 | 24.3 | 36.5# |



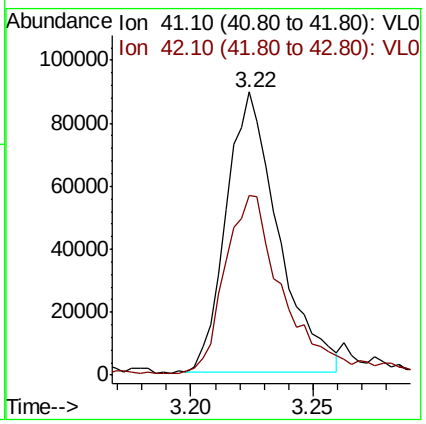


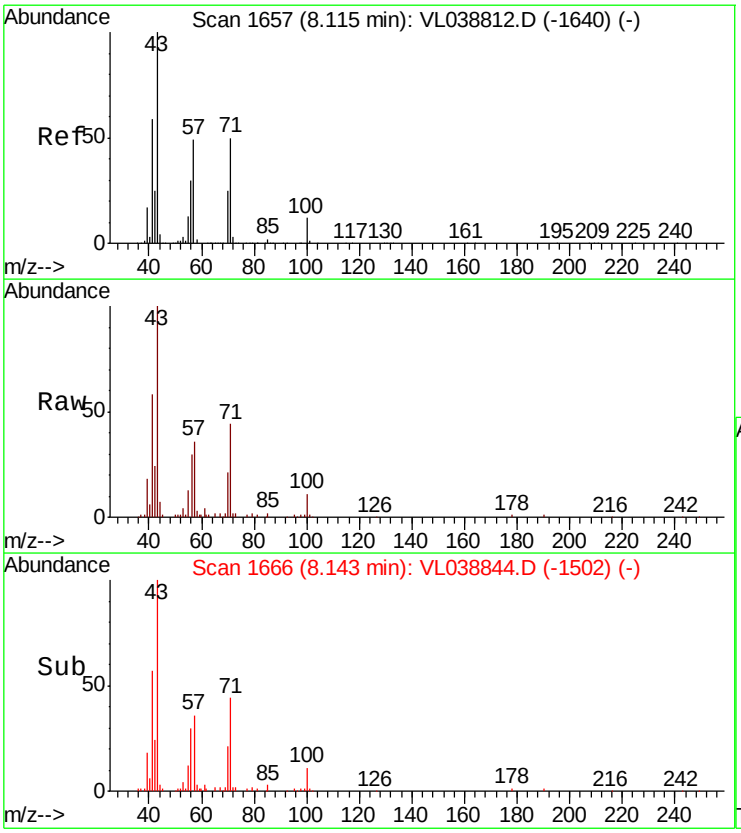

#9
Propene
Concen: 1.587 ppbv
RT: 3.22
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 41 Resp: 131962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 73.6 | 54.2 | 81.4 |

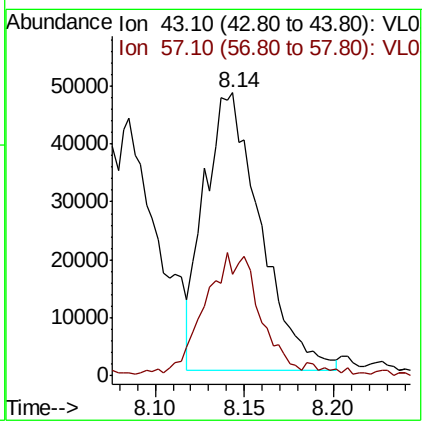


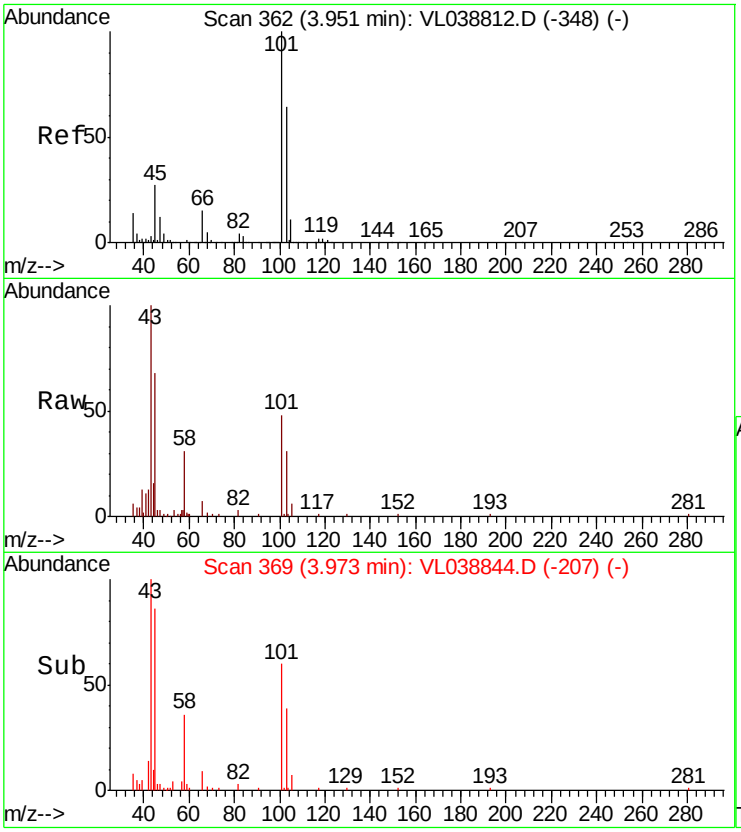




#10
Heptane
Concen: 0.499 ppbv
RT: 8.14 min Scan# 1666
Delta R.T. 0.03 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 43 Resp: 104583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.2 | 39.3 | 58.9 |



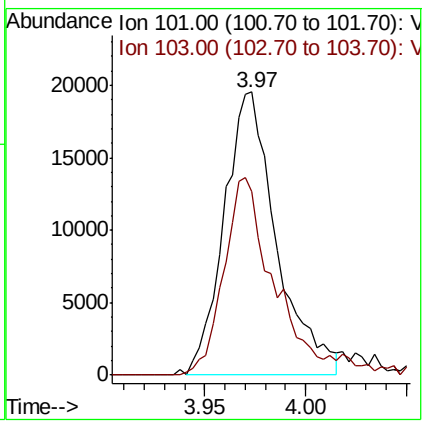


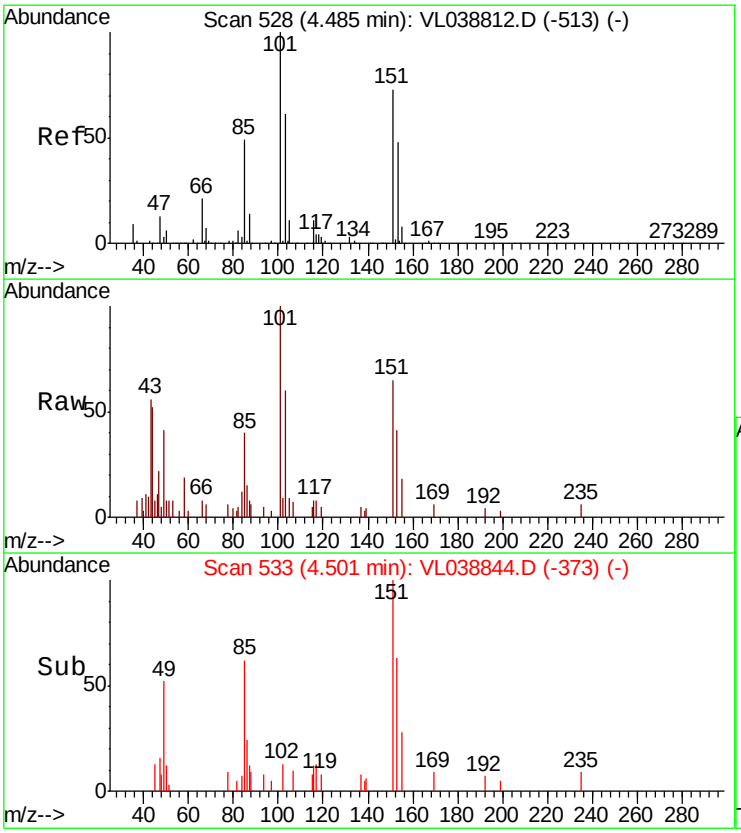

#11
Trichlorofluoromethane
Concen: 0.242 ppbv
RT: 3.97
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion:101 Resp: 35584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 51.4 | 77.0 |

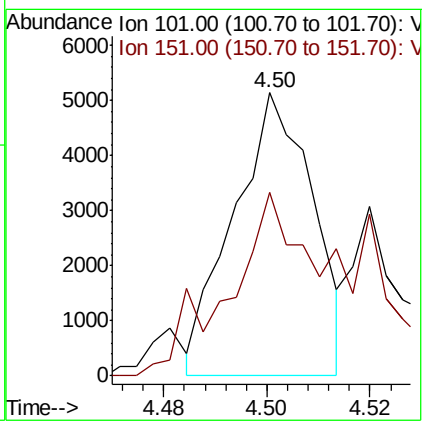


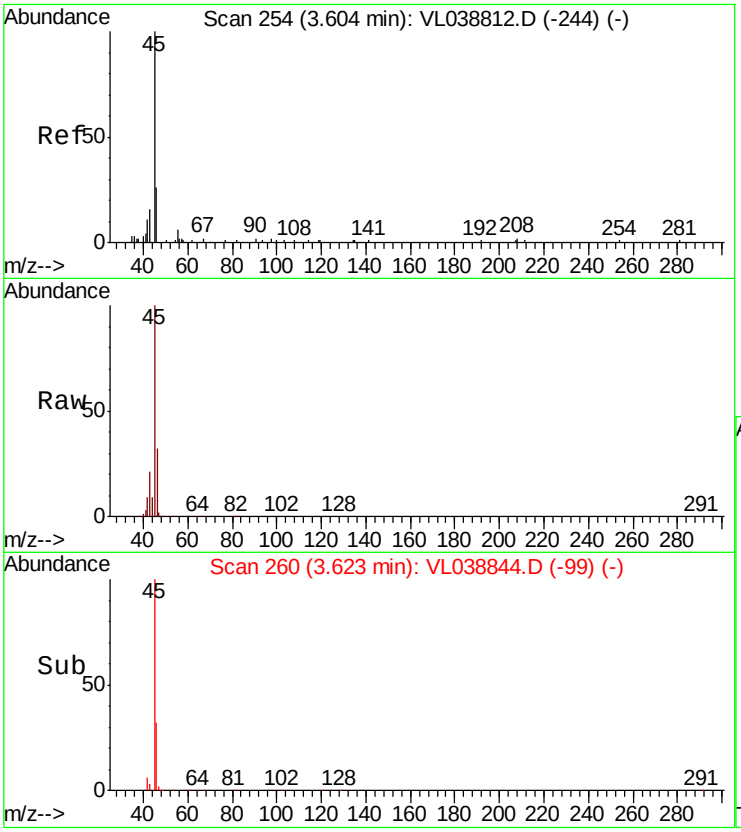




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.049 ppbv
RT: 4.50 min Scan# 533
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion:101 Resp: 5482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 110.5 | 59.9 | 89.9# |



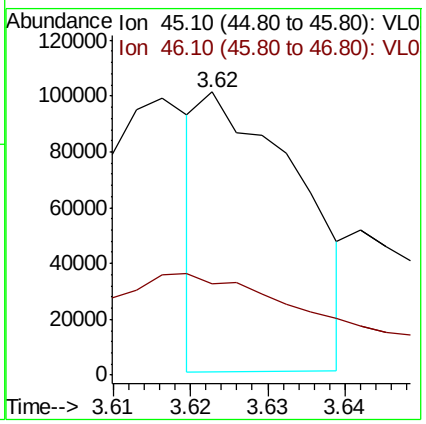


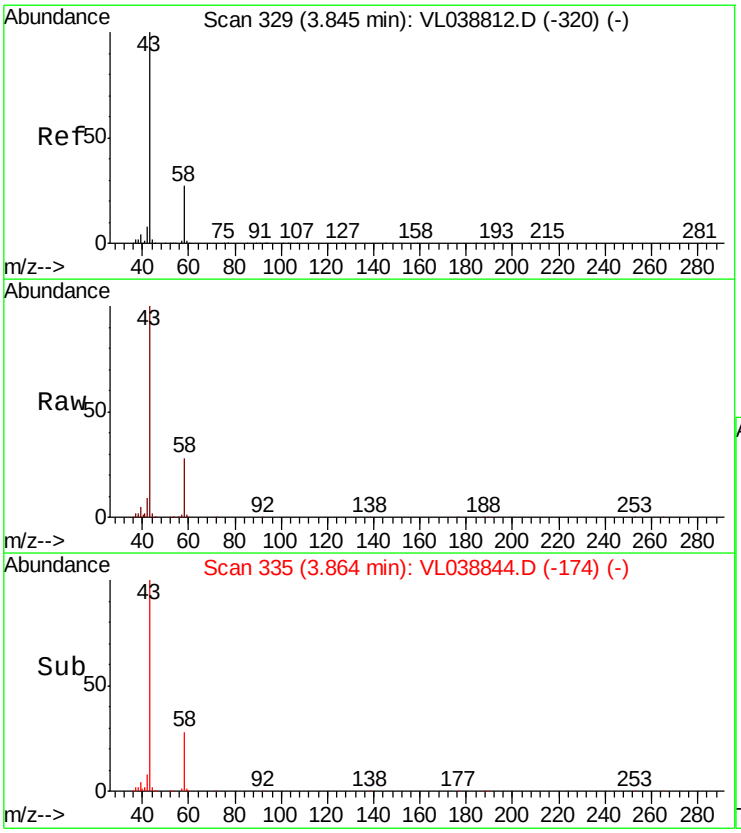

#13
Ethanol
Concen: 17.473 ppbv
RT: 3.62
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 45 Resp: 88305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 116.9 | 0.0 | 0.0# |

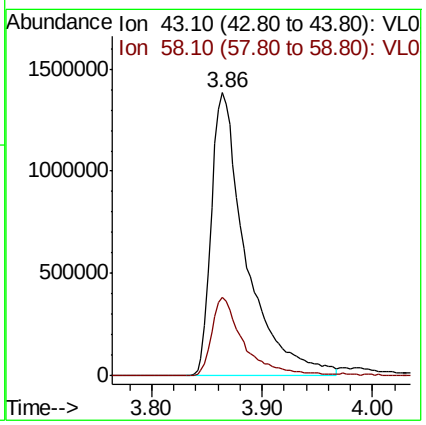


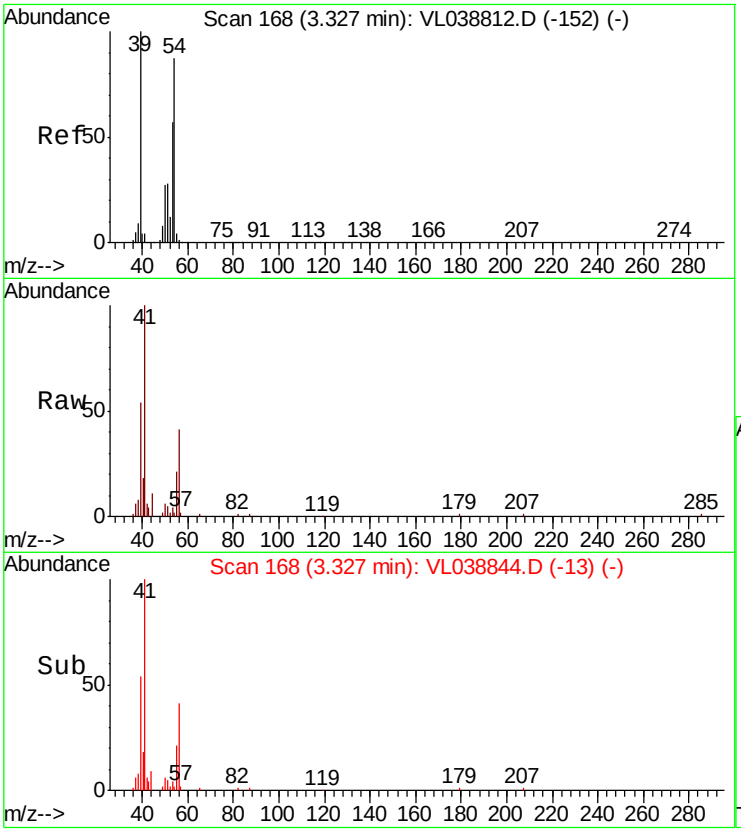




#15
Acetone
Concen: 23.550 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 43 Resp: 3019629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 22.5 | 33.7 |



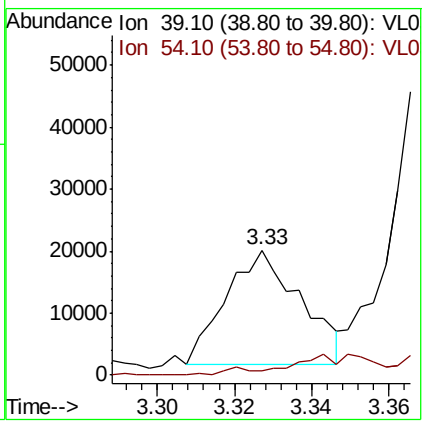


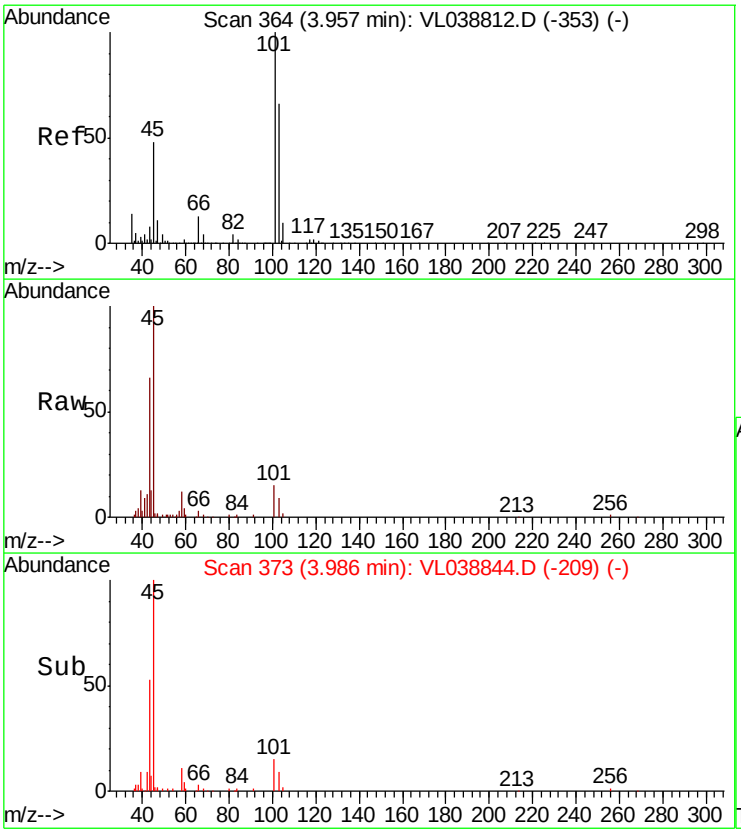

#16
1,3-Butadiene
Concen: 0.336 ppbv
RT: 3.33
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 39 Resp: 24641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 34.6 | 64.8 | 97.2# |

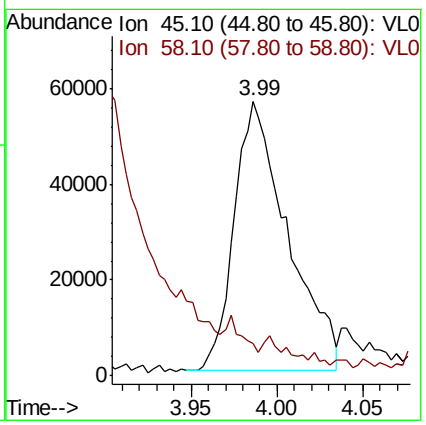


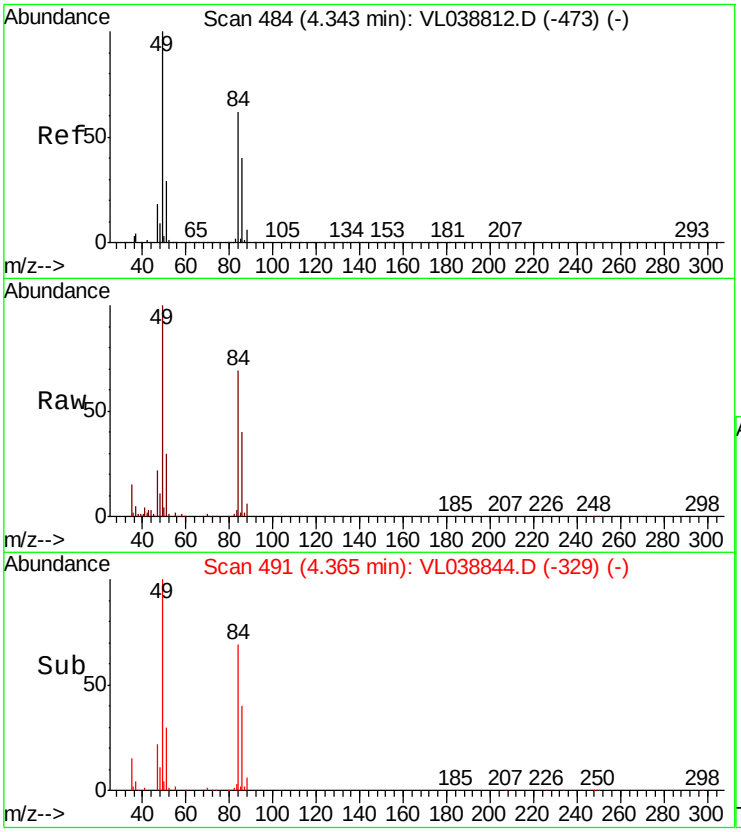




#19
Isopropyl Alcohol
Concen: 1.854 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.03 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 45 Resp: 121511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.0 | 0.0 | 0.0 |



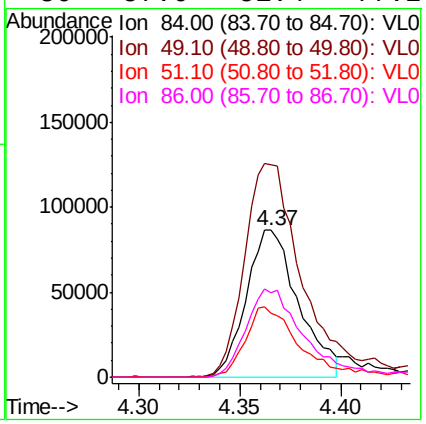


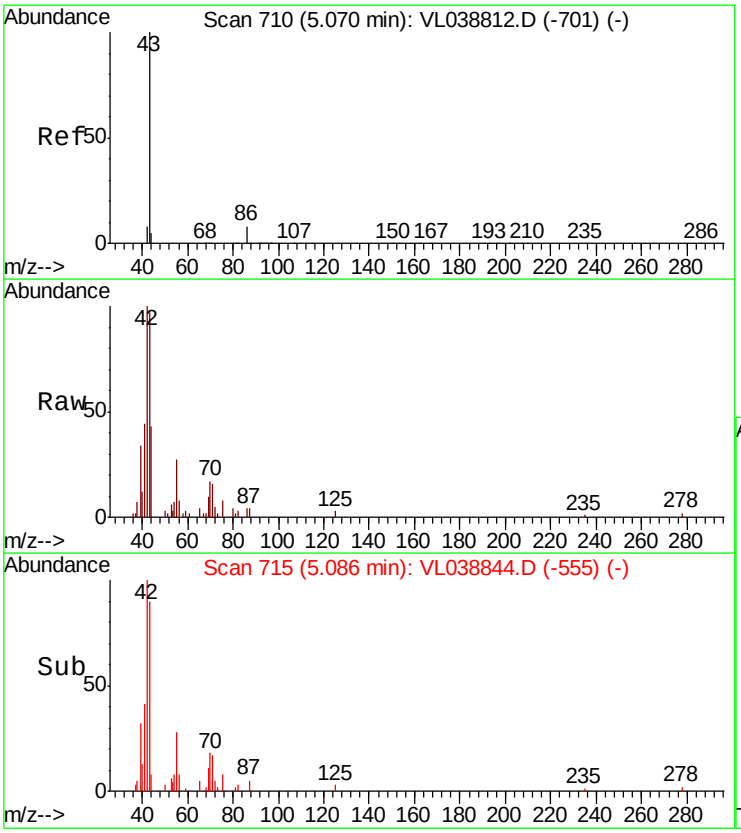

#20
Methylene Chloride
Concen: 3.375 ppbv
RT: 4.37
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 84 Resp: 156949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 144.1 | 129.4 | 194.0 |
| 51 | 43.7 | 37.4 | 56.2 |
| 86 | 57.6 | 51.4 | 77.2 |

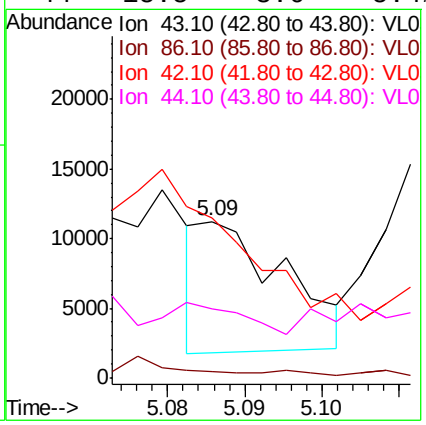


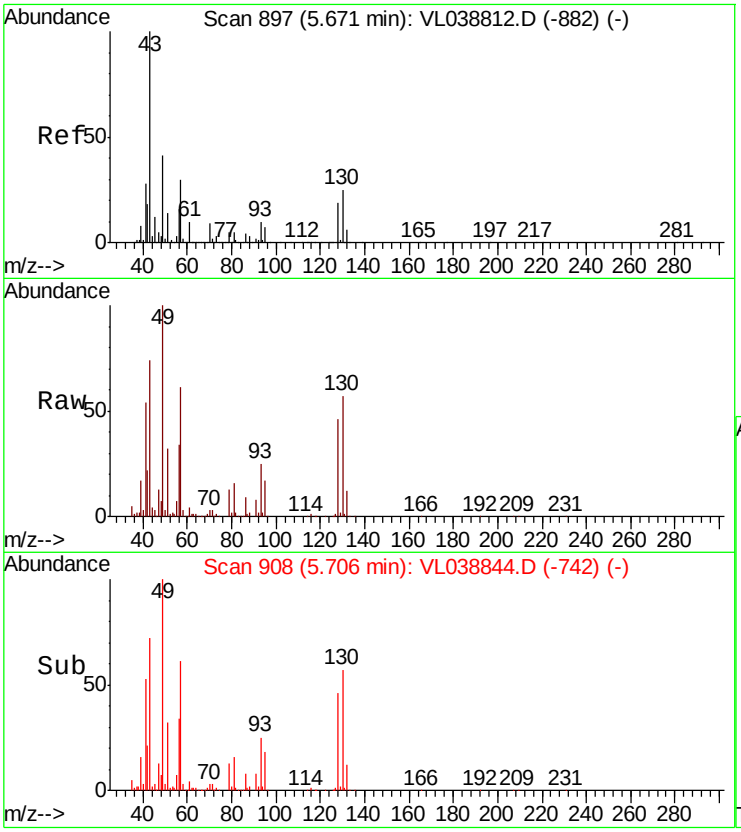




#23
Vinyl Acetate
Concen: 0.056 ppbv
RT: 5.09 min Scan# 715
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 43 Resp: 7041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 5.1 | 5.8 | 8.6# |
| 42 | 91.0 | 7.8 | 11.6# |
| 44 | 15.5 | 3.6 | 5.4# |



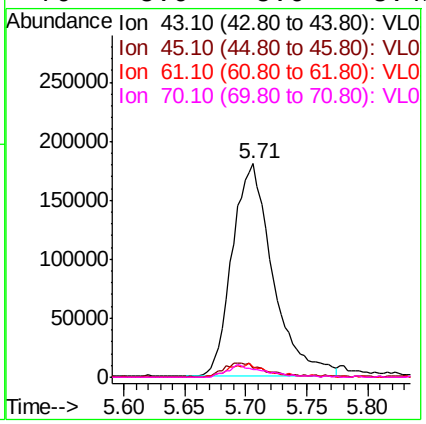


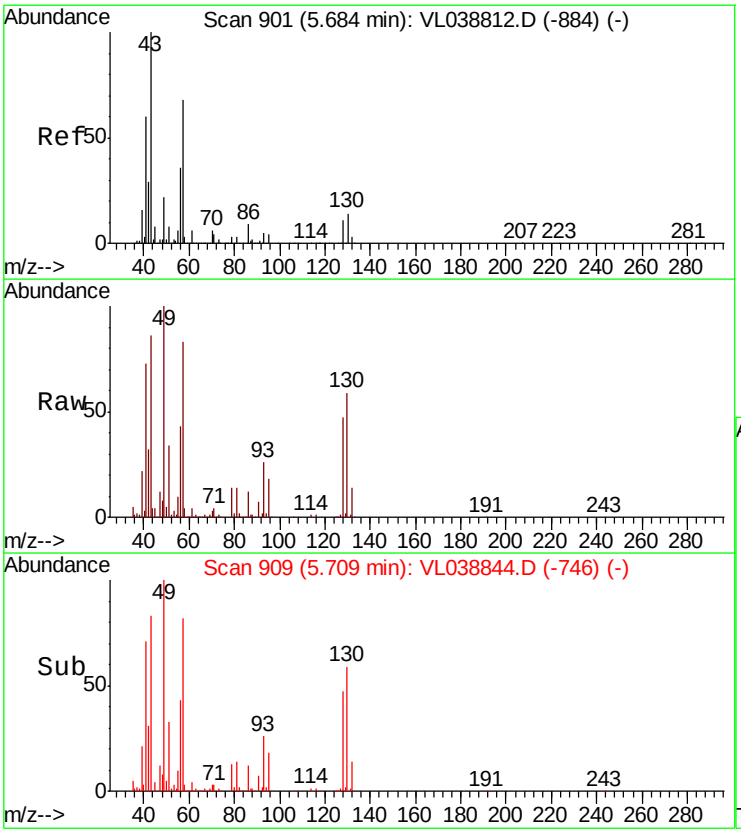

#25
Ethyl Acetate
Concen: 1.285 ppbv
RT: 5.71
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 43 Resp: 418112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 7.2 | 8.4 | 12.6# |
| 61 | 6.5 | 7.9 | 11.9# |
| 70 | 5.6 | 5.6 | 8.4# |

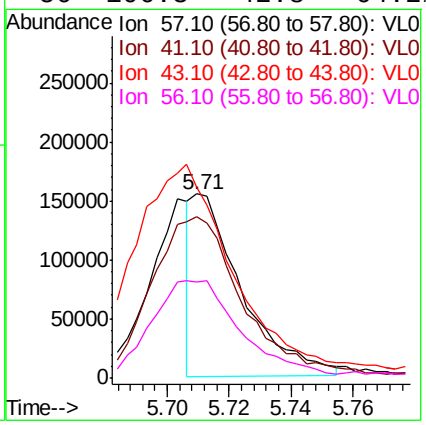


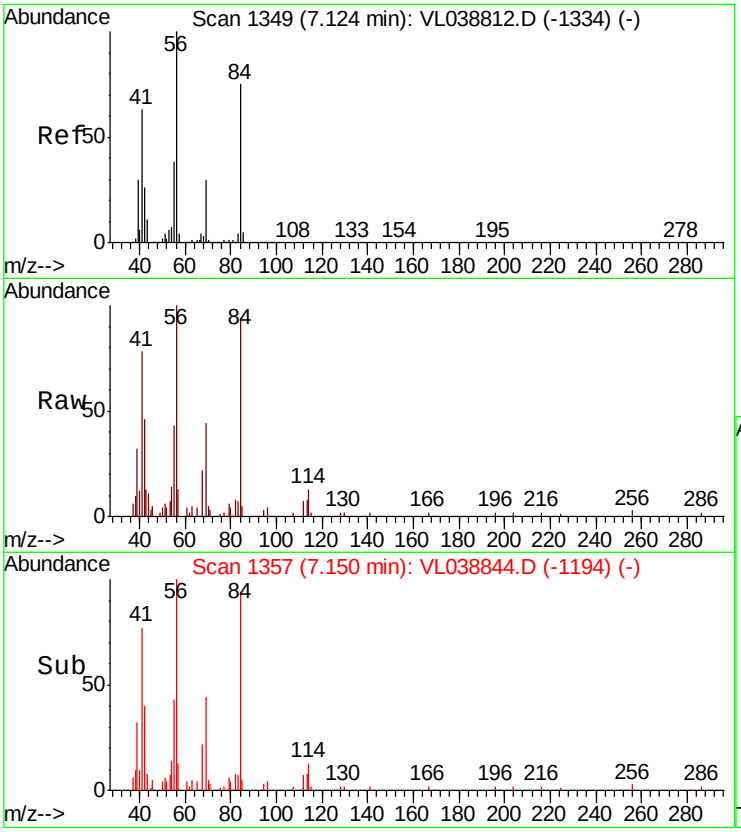




#26
Hexane
Concen: 1.140 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 57 Resp: 168826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 174.9 | 72.0 | 108.0# |
| 43 | 256.8 | 186.6 | 280.0 |
| 56 | 106.3 | 42.8 | 64.2# |



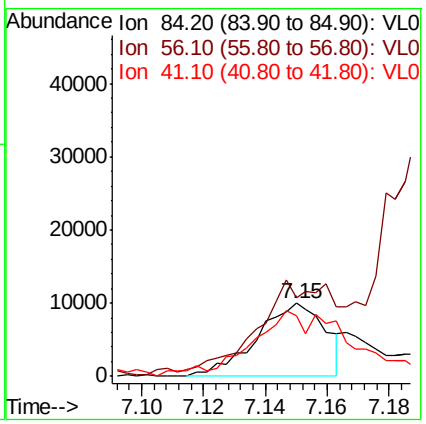


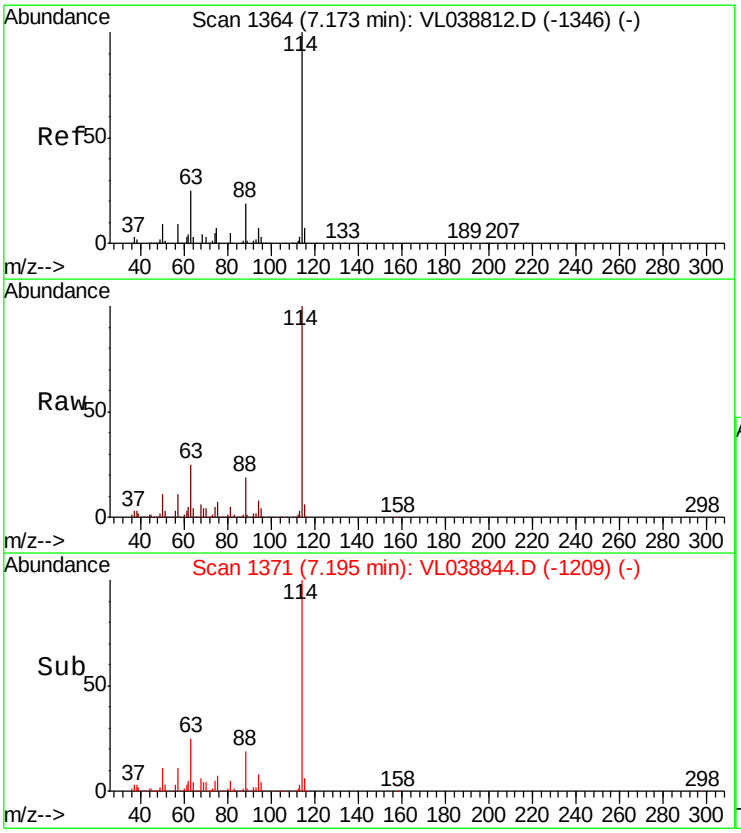

#30
Cyclohexane
Concen: 0.118 ppbv
RT: 7.15
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 84 Resp: 15341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 114.4 | 171.6# |
| 41 | 113.2 | 69.0 | 103.4# |

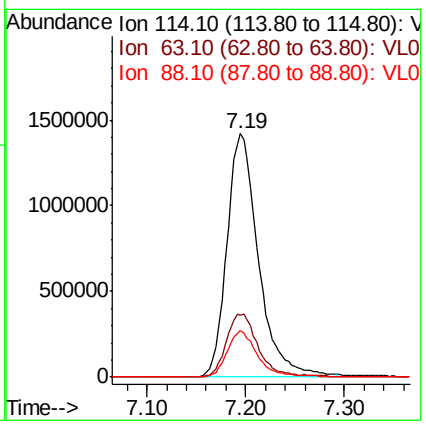


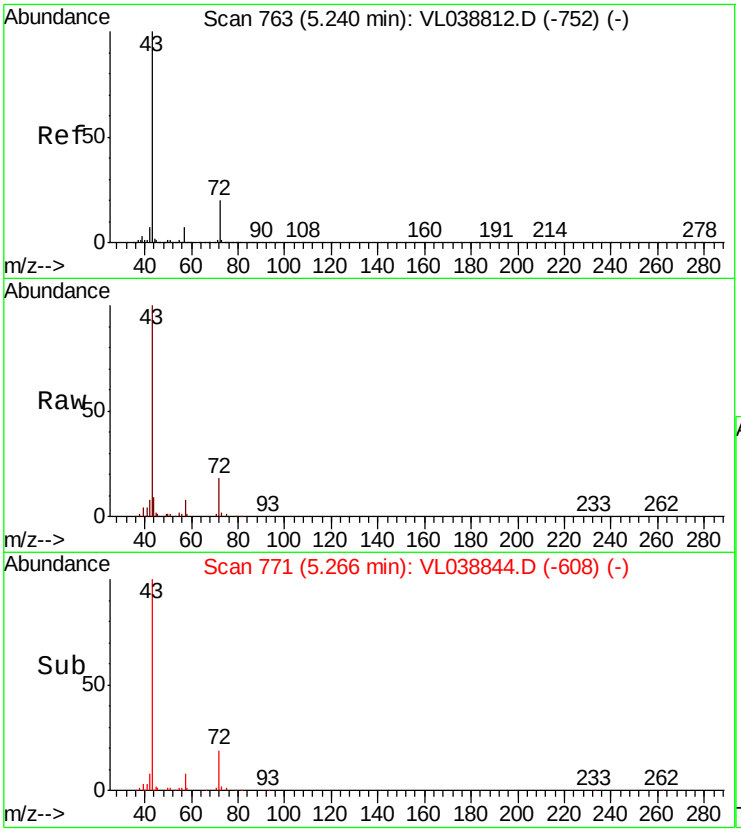




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion:114 Resp: 3174755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.7 | 19.8 | 29.8 |
| 88 | 18.5 | 14.2 | 21.4 |



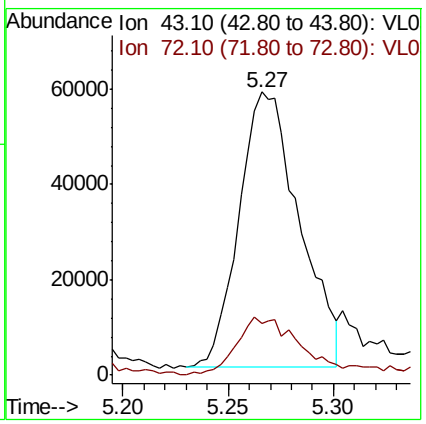


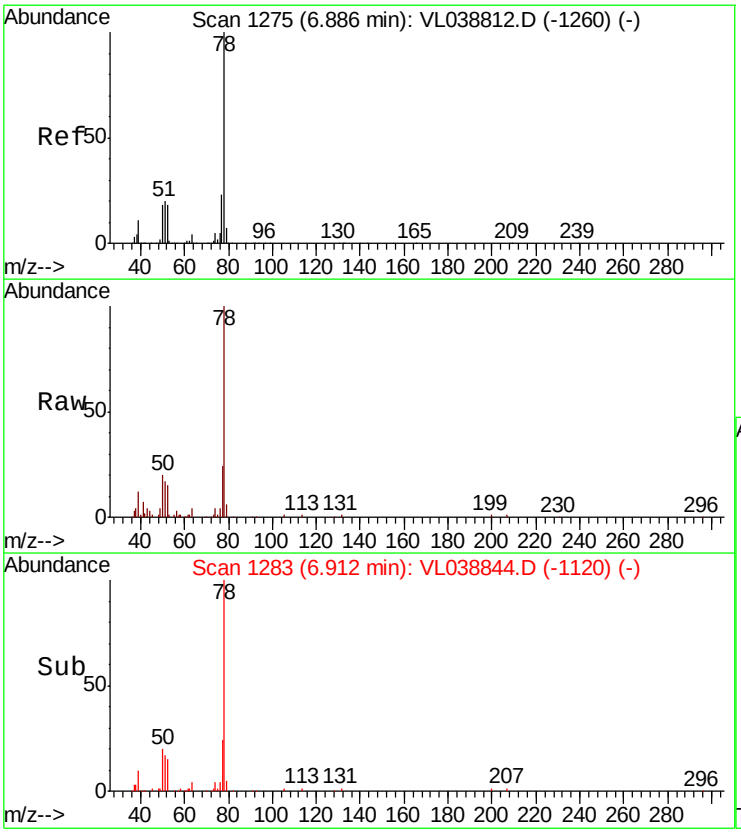

#34
2-Butanone
Concen: 0.917 ppbv
RT: 5.27
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 43 Resp: 114991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.0 | 16.9 | 25.3 |

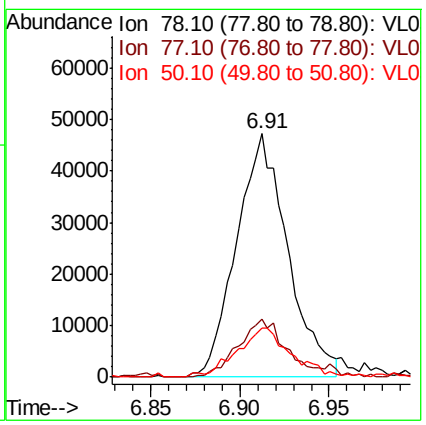


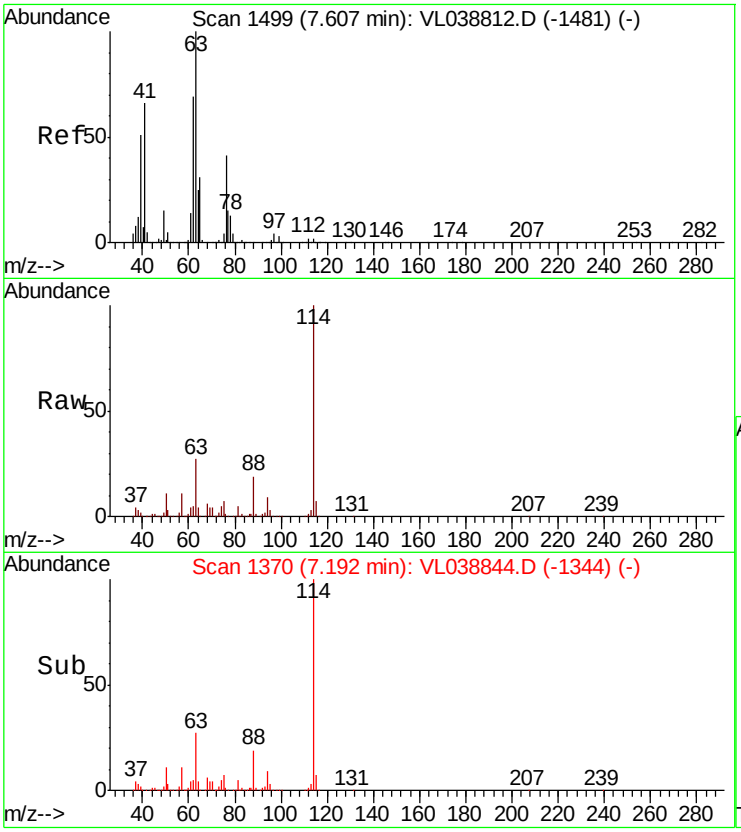




#36
Benzene
Concen: 0.327 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.03 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 78 Resp: 94575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.2 | 27.2 |
| 50 | 20.4 | 14.0 | 21.0 |



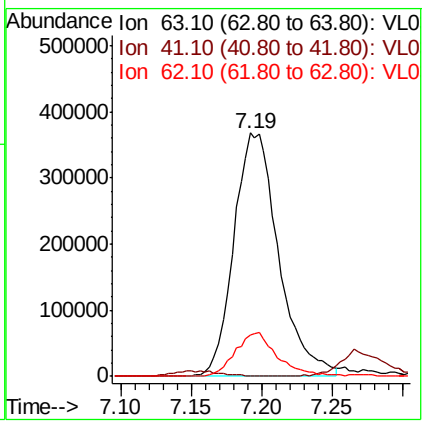


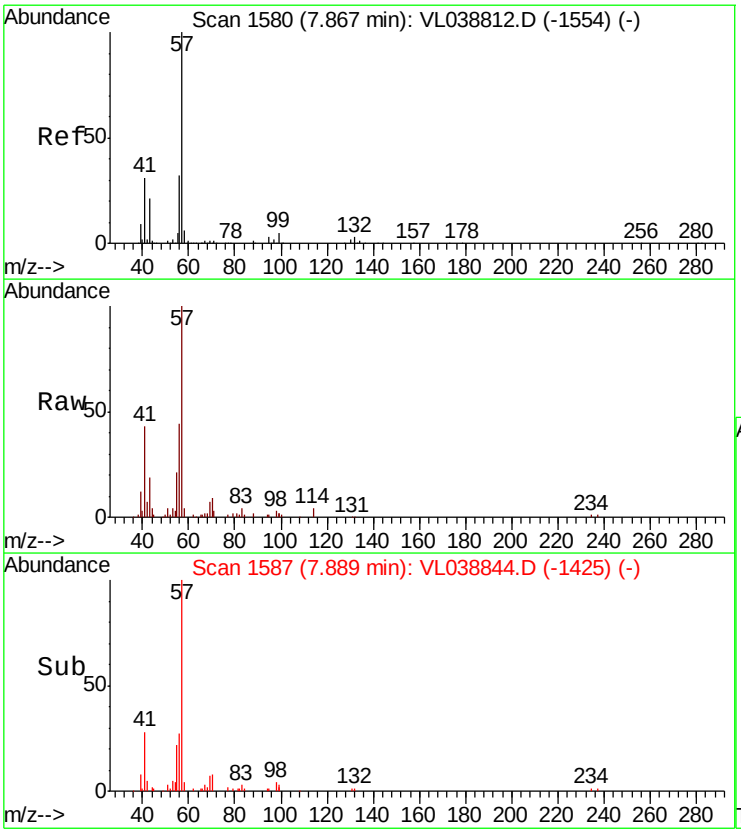

#39
1,2-Dichloropropane
Concen: 7.407 ppbv
RT: 7.19
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 63 Resp: 818195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 53.0 | 79.6# |
| 62 | 17.0 | 55.0 | 82.4# |

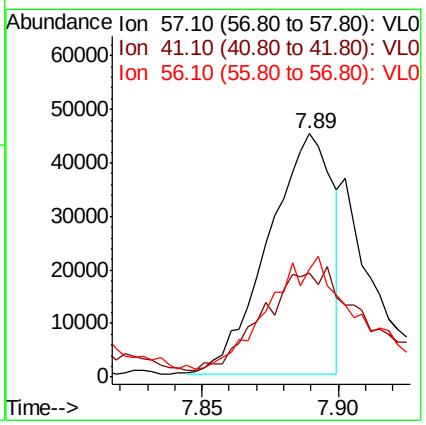


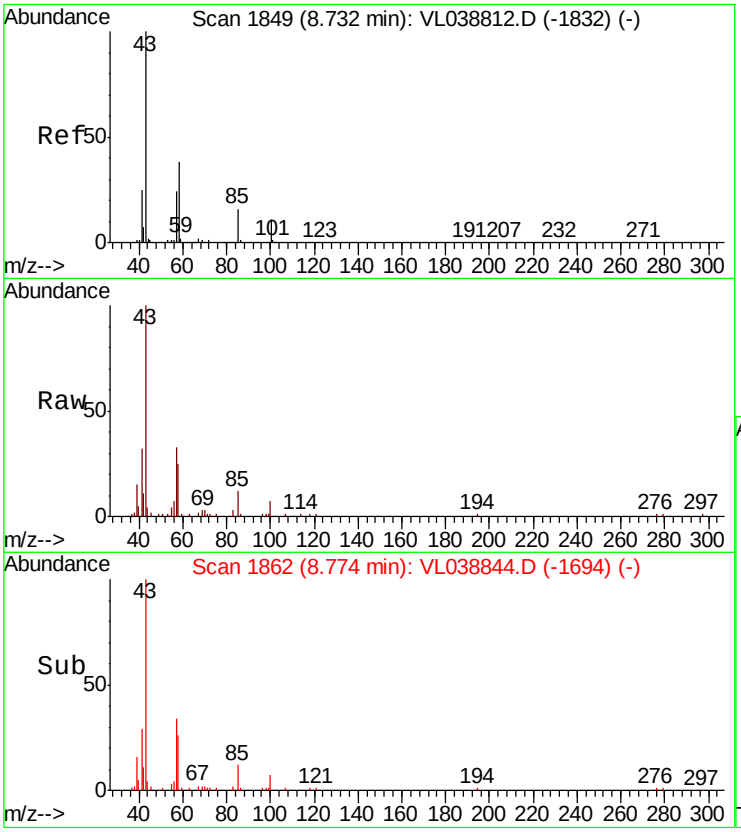




#44
2,2,4-Trimethylpentane
Concen: 0.150 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 57 Resp: 73585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 94.1 | 25.0 | 37.4# |
| 56 | 87.0 | 25.3 | 37.9# |



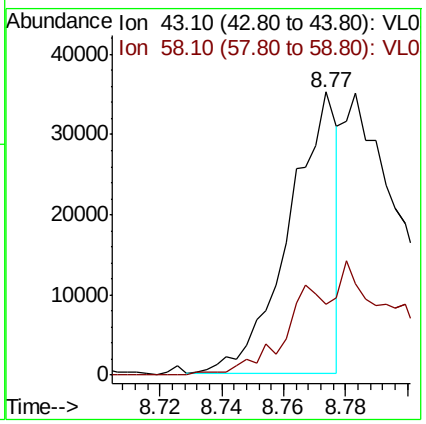


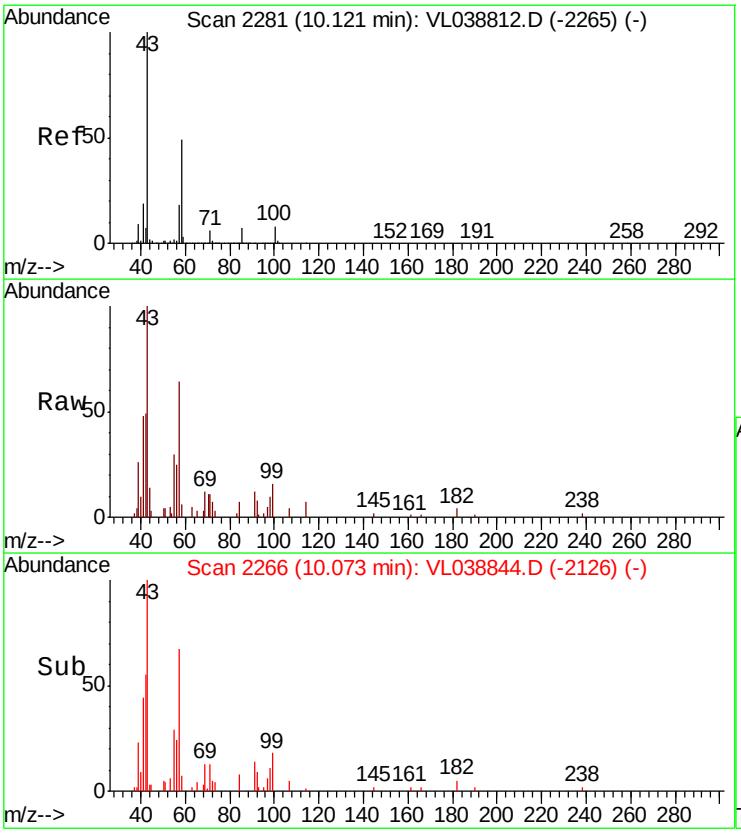

#50
4-Methyl-2-Pentanone
Concen: 0.135 ppbv
RT: 8.77
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 43 Resp: 38011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 29.0 | 43.6# |

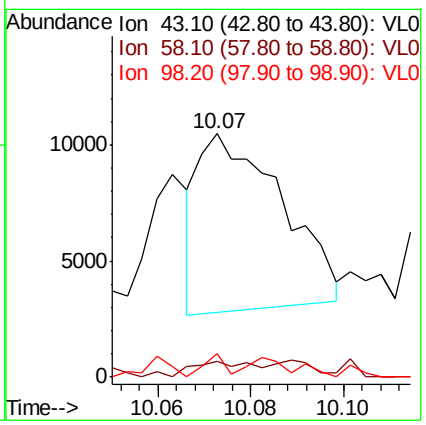


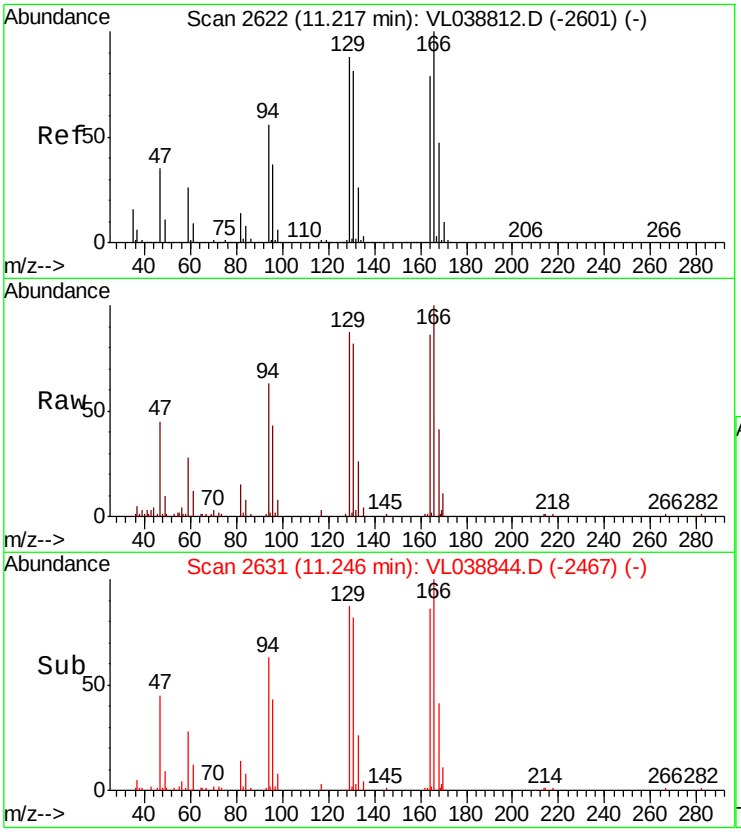




#51
2-Hexanone
Concen: 0.045 ppbv
RT: 10.07 min Scan# 2266
Delta R.T. -0.05 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 43 Resp: 9508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 14.3 | 41.4 | 62.0# |
| 98 | 14.2 | 0.1 | 0.1# |



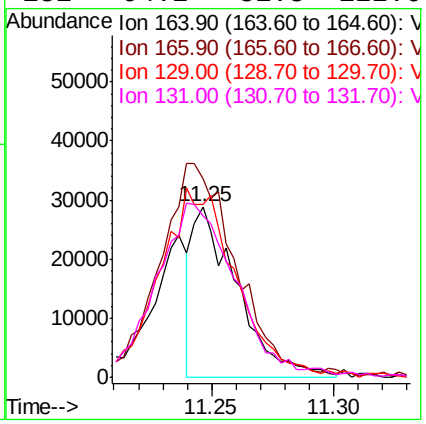


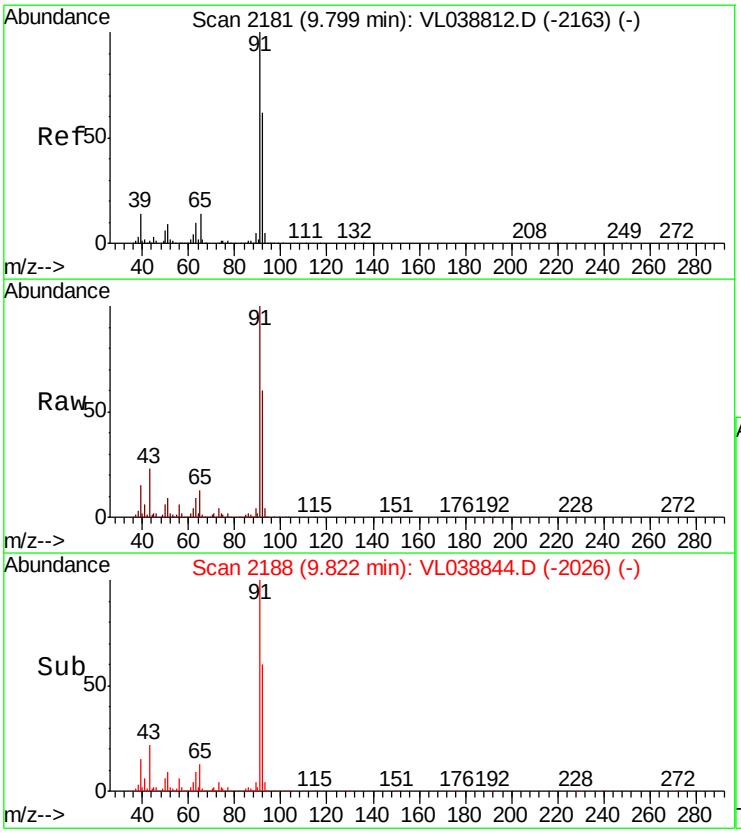

#52
Tetrachloroethene
Concen: 0.361 ppbv
RT: 11.25
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion:164 Resp: 36434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 113.1 | 101.0 | 151.6 |
| 129 | 100.1 | 88.7 | 133.1 |
| 131 | 94.2 | 81.8 | 122.6 |

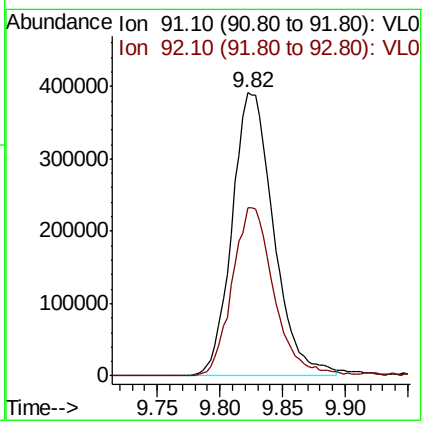


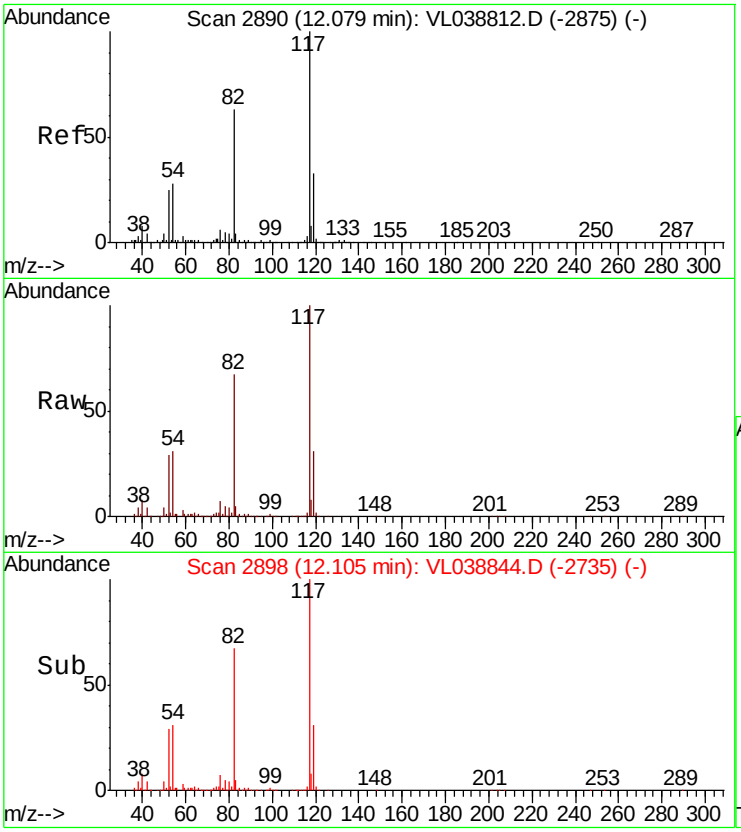




#53
Toluene
Concen: 2.703 ppbv
RT: 9.82 min Scan# 2188
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 91 Resp: 901119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.9 | 49.2 | 73.8 |



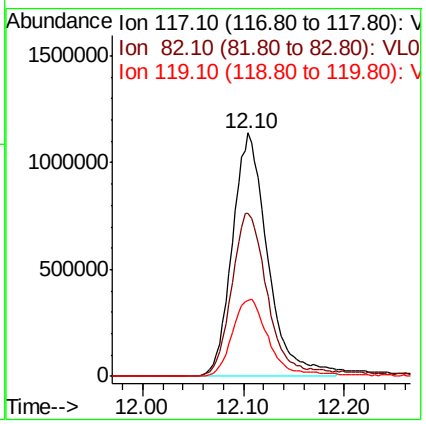


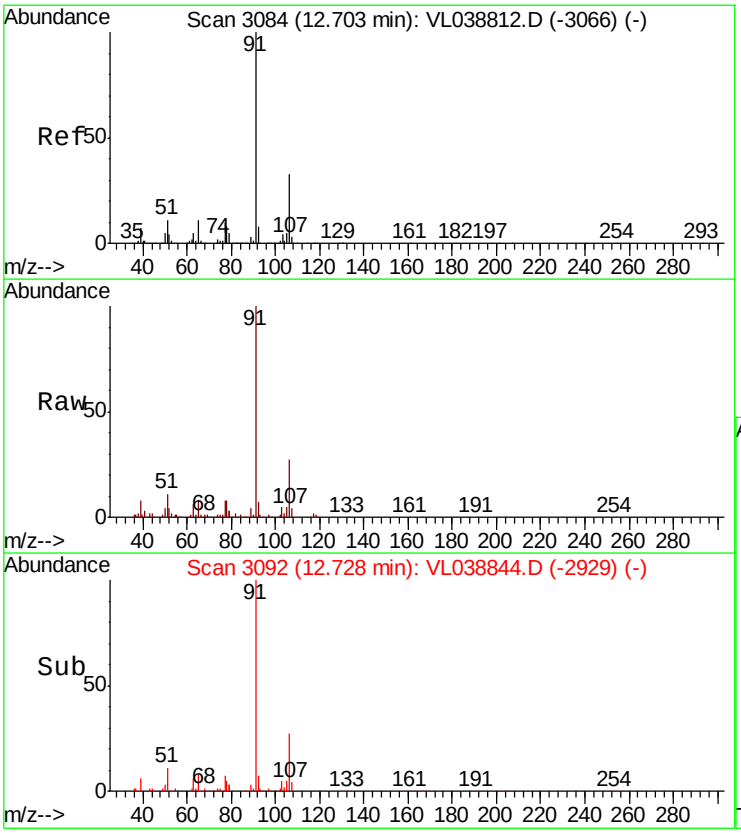

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion:117 Resp: 2774519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.7 | 53.0 | 79.6 |
| 119 | 32.6 | 24.9 | 37.3 |

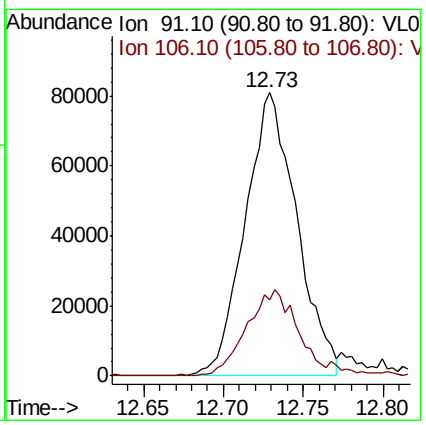


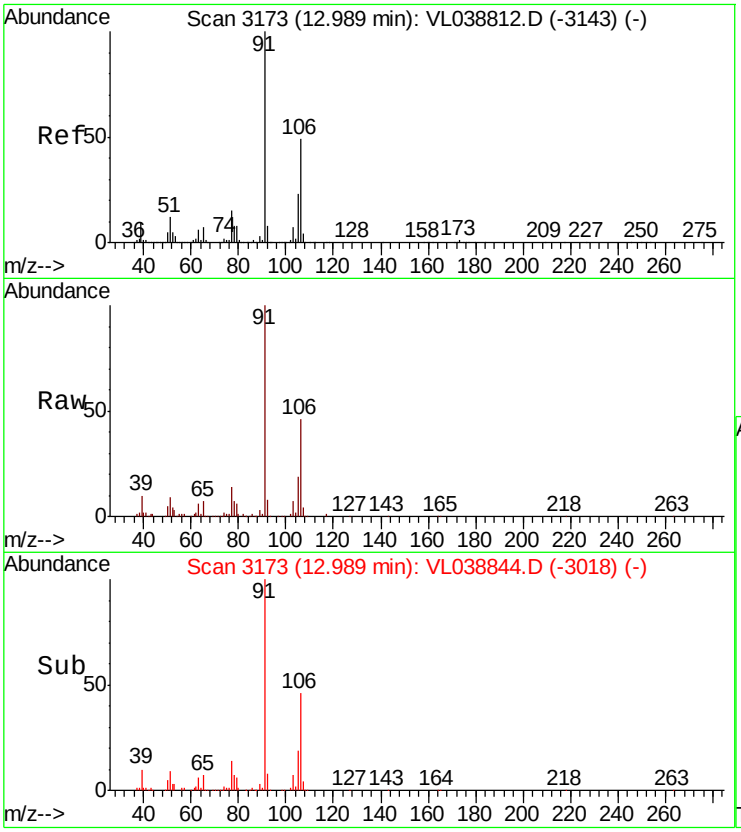




#58
Ethyl Benzene
Concen: 0.431 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. 0.03 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 91 Resp: 178528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.1 | 26.7 | 40.1 |



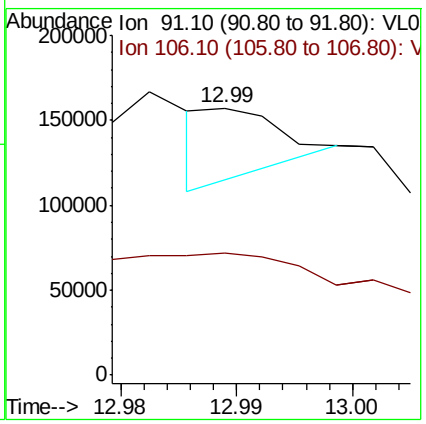


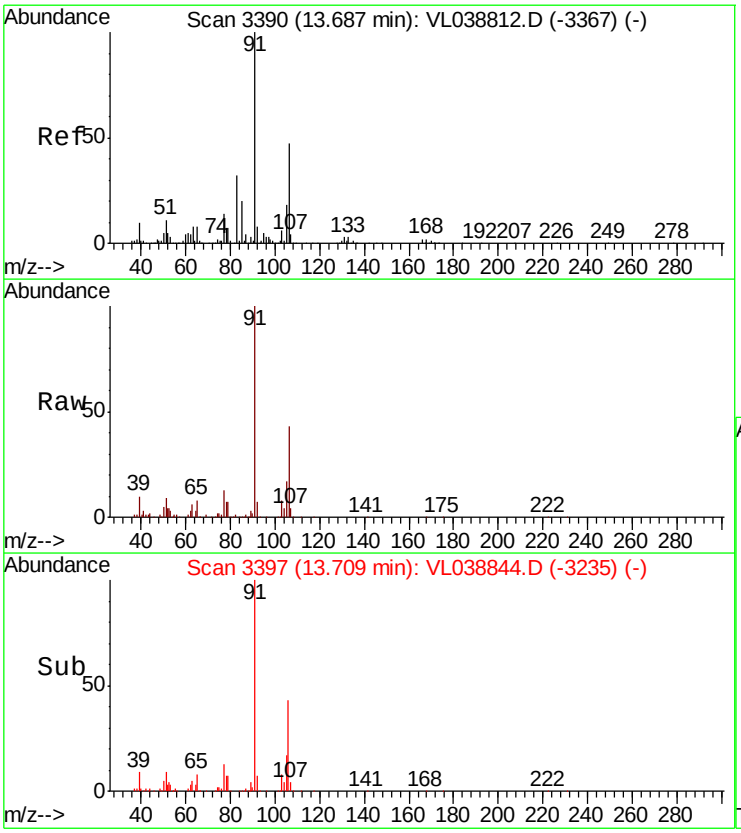

#59
m/p-Xylene
Concen: 0.053 ppbv
RT: 12.99
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion: 91 Resp: 18334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 1349.2 | 37.1 | 55.7# |

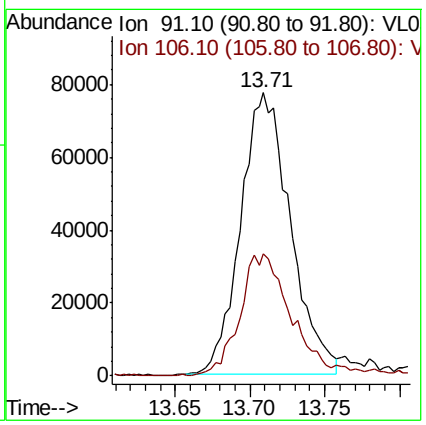


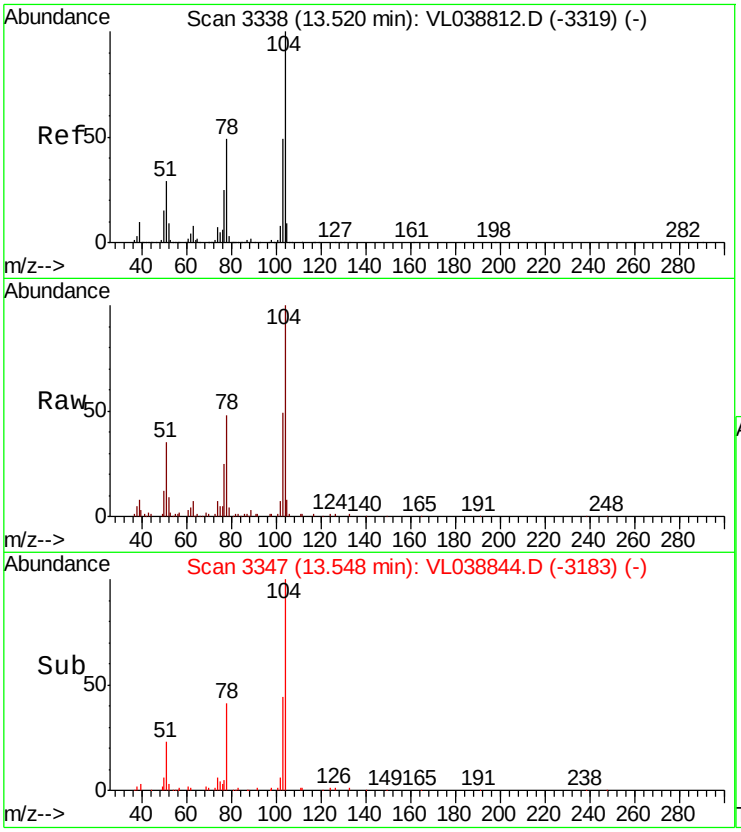




#60
o-Xylene
Concen: 0.549 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.02 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 91 Resp: 178935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.9 | 23.8 | 71.4 |



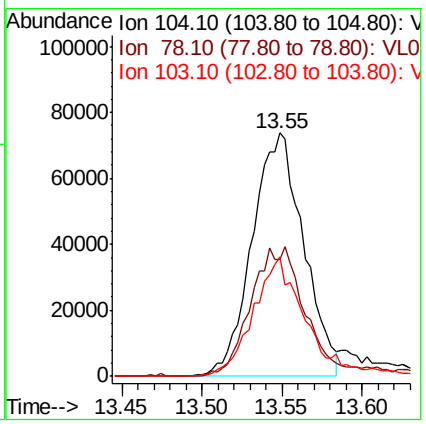


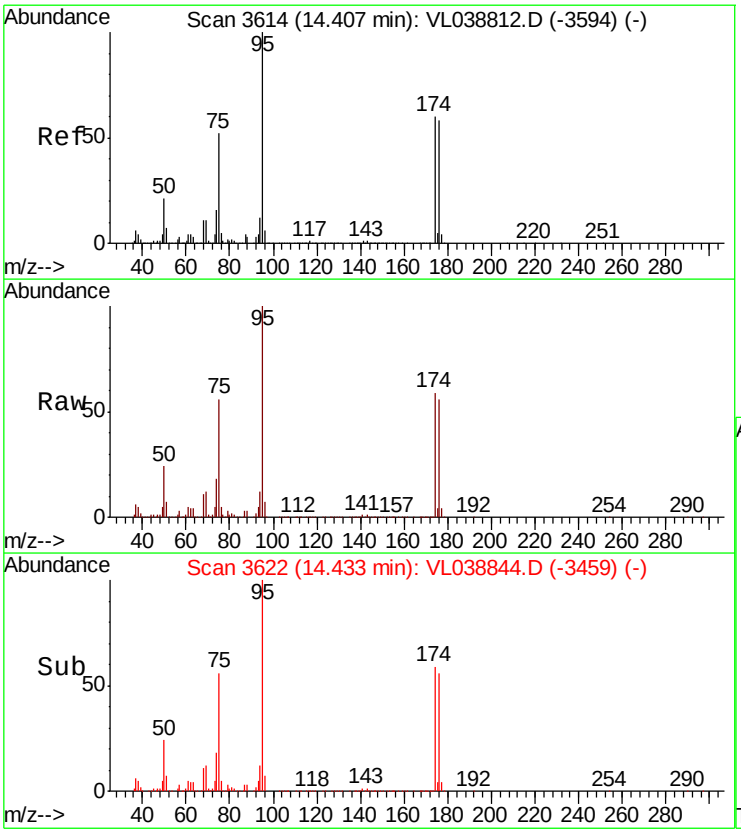

#61
Stvrene
Concen: 0.827 ppbv
RT: 13.55
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion:104 Resp: 164169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 59.1 | 40.5 | 60.7 |
| 103 | 50.1 | 39.0 | 58.4 |

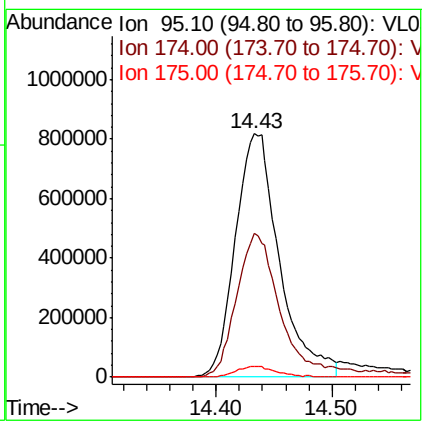


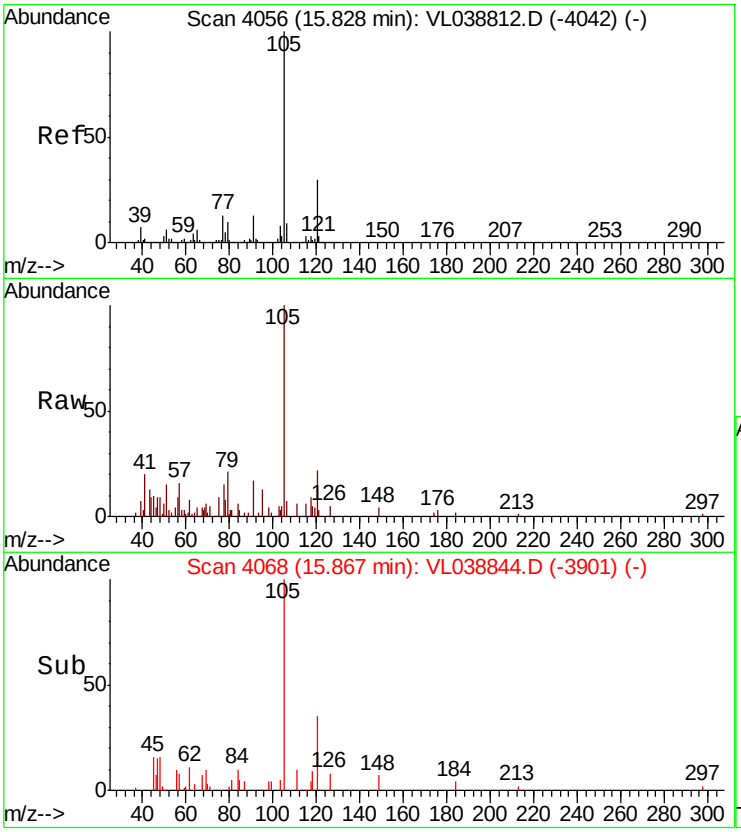




#68
1-Bromo-4-Fluorobenzene
Concen: 10.294 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.03 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 95 Resp: 2166372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.6 | 52.0 | 78.0 |
| 175 | 4.4 | 4.0 | 6.0 |



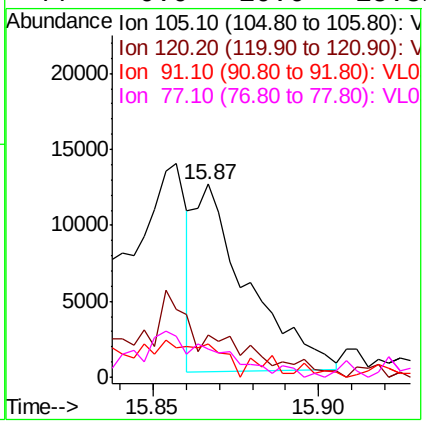


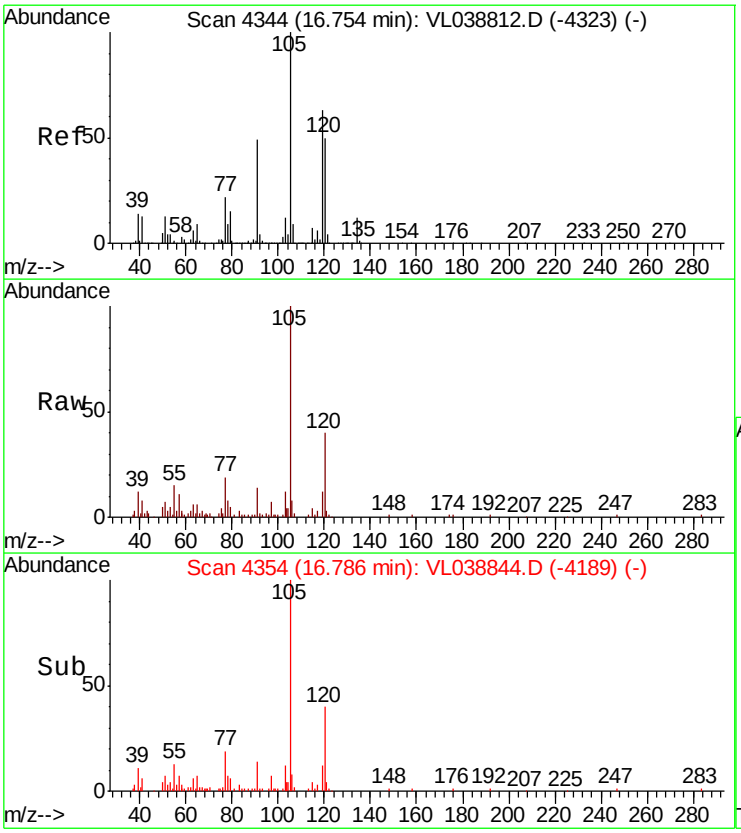

#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 15.87
Delta R.T
Lab File:
Acq: 7 Apr 2022 16:55

**Instrument :**
MSVOA_L
**ClientSampleId :**
1160-1A-1

Tgt Ion:105 Resp: 13507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 24.3 | 36.5# |
| 91 | 0.0 | 9.4 | 14.2# |
| 77 | 0.0 | 10.6 | 15.8# |




#74
1,2,4-Trimethylbenzene
Concen: 0.080 ppbv
RT: 16.79 min Scan# 4354
Delta R.T. 0.03 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion:105 Resp: 29387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 31.7 | 39.8 | 59.8# |
| 91 | 10.1 | 39.4 | 59.0# |
| 77 | 17.6 | 17.3 | 25.9 |