Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092418\
Data File : VL032541.D
Acq On : 25 Sep 2018 12:14
Operator : SY/AP
Sample : J5034-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SVE-INF3-092018DL

Quant Time: Sep 25 13:35:08 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.79 | 49 | 1503116 | 10.00 | ppbv | | -0.02 |
| 33) 1,4-Difluorobenzene | 7.32 | 114 | 3195443 | 10.00 | ppbv | | -0.02 |
| 55) Chlorobenzene-d5 | 12.27 | 117 | 3167406 | 10.00 | ppbv | | -0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.61 | 95 | 2435514 | 10.20 | ppbv | | -0.03 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 102.00% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 3) Chlorodifluoromethane | 3.03 | 51 | 10637 | 0.085 | ppbv | | 98 |
| 4) Chloromethane | 3.19 | 50 | 16770 | 0.230 | ppbv | | 98 |
| 5) Vinyl Chloride | 3.31 | 62 | 37669 | 0.511 | ppbv | | 99 |
| 7) Chloroethane | 3.62 | 64 | 12007 | 0.458 | ppbv | # | 76 |
| 9) Propene | 3.41 | 41 | 6400 | 0.118 | ppbv | | 94 |
| 11) Trichlorofluoromethane | 4.02 | 101 | 68196 | 0.413 | ppbv | | 88 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.57 | 101 | 62944 | 0.466 | ppbv | | 98 |
| 13) Ethanol | 3.68 | 45 | 13631 | 0.836 | ppbv | | 90 |
| 15) Acetone | 3.93 | 43 | 167392 | 1.269 | ppbv | | 99 |
| 16) 1,3-Butadiene | 3.36 | 39 | 20577 | 0.385 | ppbv | # | 6 |
| 17) tert-Butyl alcohol | 4.39 | 59 | 1746 | 0.105 | ppbv | # | 100 |
| 18) 1,1-Dichloroethene | 4.38 | 96 | 24792 | 0.392 | ppbv | | 84 |
| 20) Methylene Chloride | 4.44 | 84 | 71142 | 1.113 | ppbv | | 86 |
| 22) trans-1,2-Dichloroethene | 4.98 | 96 | 9880 | 0.166 | ppbv | # | 72 |
| 24) 1,1-Dichloroethane | 5.11 | 63 | 1736980 | 8.947 | ppbv | | 100 |
| 26) Hexane | 5.81 | 57 | 13934 | 0.096 | ppbv | # | 37 |
| 29) Chloroform | 5.88 | 83 | 23849 | 0.107 | ppbv | | 87 |
| 31) cis-1,2-Dichloroethene | 5.67 | 61 | 1135508 | 8.245 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 6.65 | 97 | 3546925 | 15.000 | ppbv | | 99 |
| 36) Benzene | 7.03 | 78 | 55817 | 0.216 | ppbv | # | 96 |
| 37) 1,2-Dichloroethane | 6.65 | 62 | 249295 | 1.602 | ppbv | # | 1 |
| 38) Trichloroethene | 7.99 | 130 | 4940901 | 49.986 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 7.99 | 63 | 25554 | 0.220 | ppbv | # | 1 |
| 44) 2,2,4-Trimethylpentane | 8.02 | 57 | 21473 | 0.043 | ppbv | # | 50 |
| 47) 1,1,2-Trichloroethane | 9.64 | 97 | 6197 | 0.048 | ppbv | # | 68 |
| 52) Tetrachloroethene | 11.41 | 164 | 36141 | 0.402 | ppbv | | 92 |
| 53) Toluene | 9.98 | 91 | 20087 | 0.064 | ppbv | # | 83 |
| 65) tert-Butylbenzene | 17.13 | 119 | 30276 | 0.075 | ppbv | # | 28 |

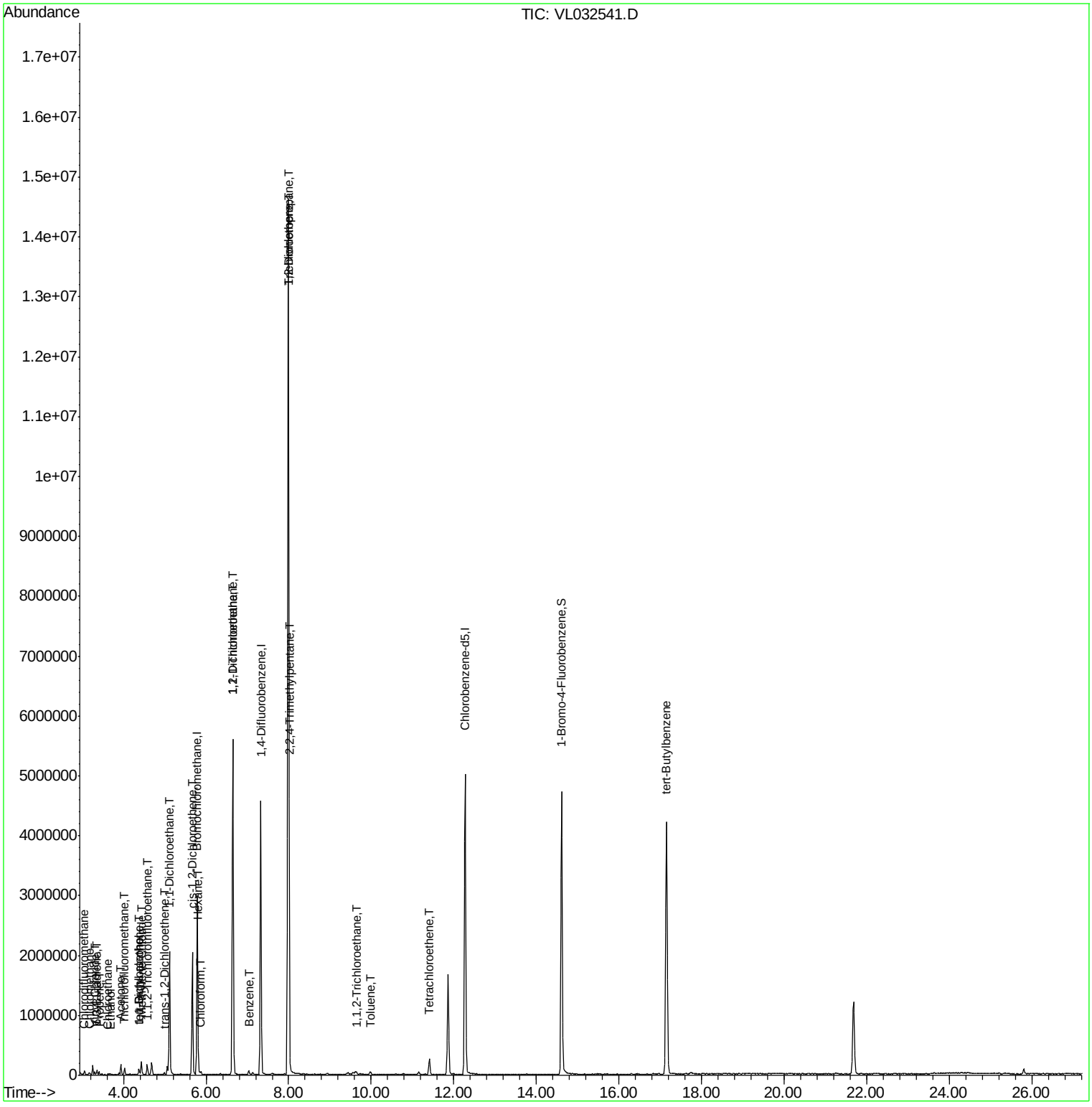
(#) = qualifier out of range (m) = manual integration (+) = signals summed

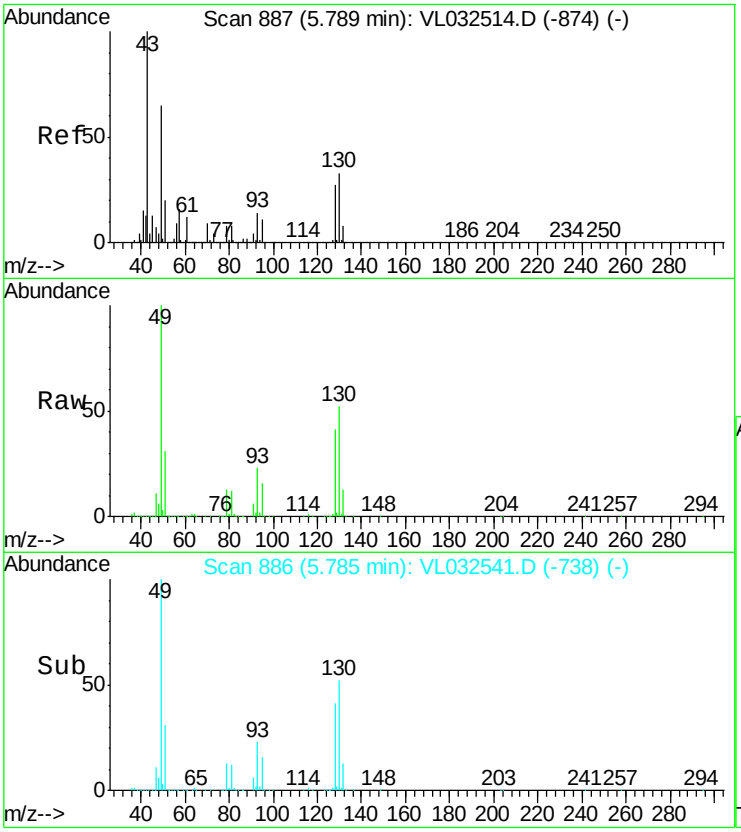
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092418\
Data File : VL032541.D
Acq On : 25 Sep 2018 12:14
Operator : SY/AP
Sample : J5034-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SVE-INF3-092018DL

Quant Time: Sep 25 13:35:08 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration



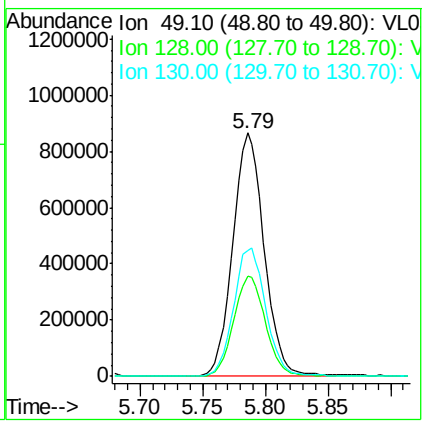


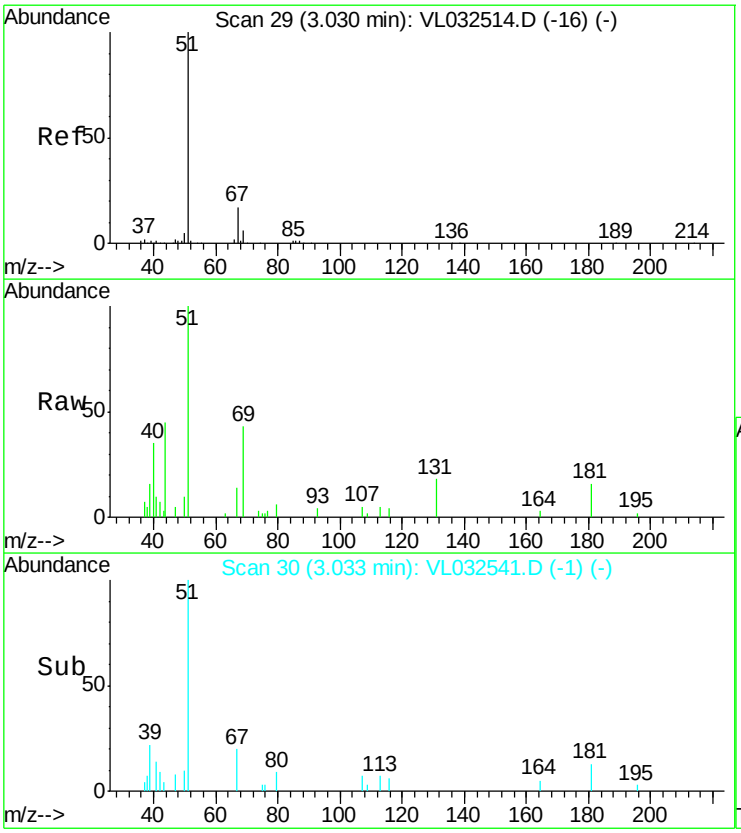

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 49 Resp: 1503116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 42.2 | 20.7 | 62.1 |
| 130 | 54.6 | 26.6 | 79.7 |

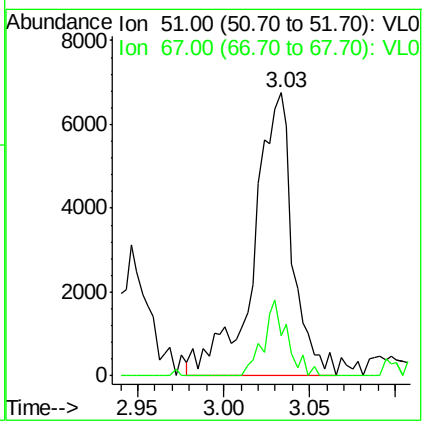


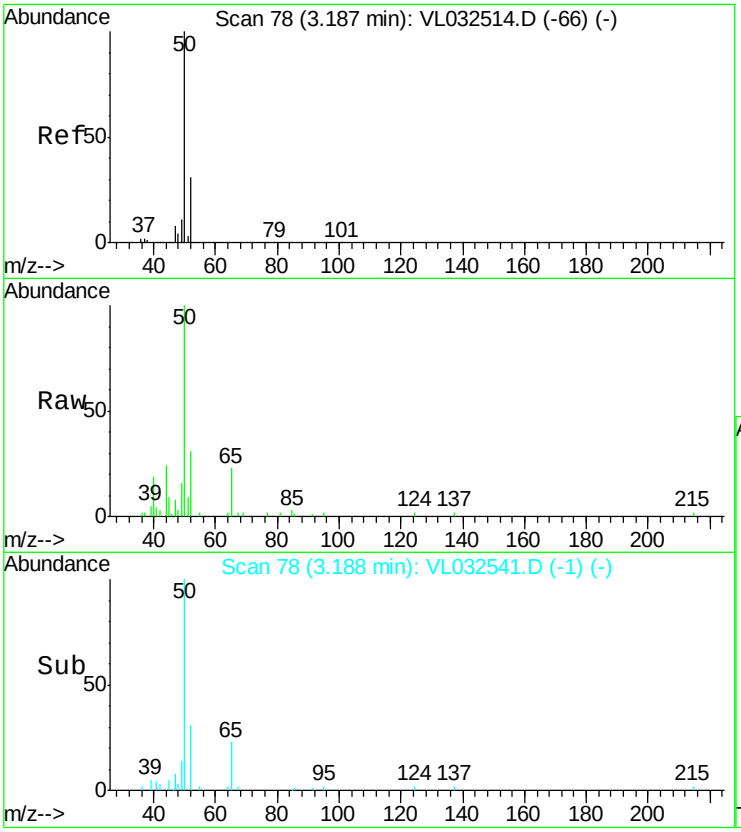




#3
Chlorodifluoromethane
Concen: 0.085 ppbv
RT: 3.03 min Scan# 30
Delta R.T. -0.01 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 51 Resp: 10637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 16.2 | 13.8 | 20.8 |



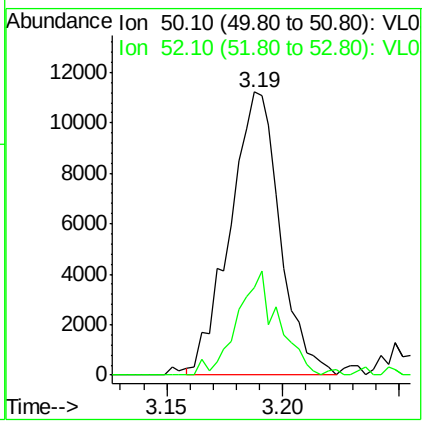


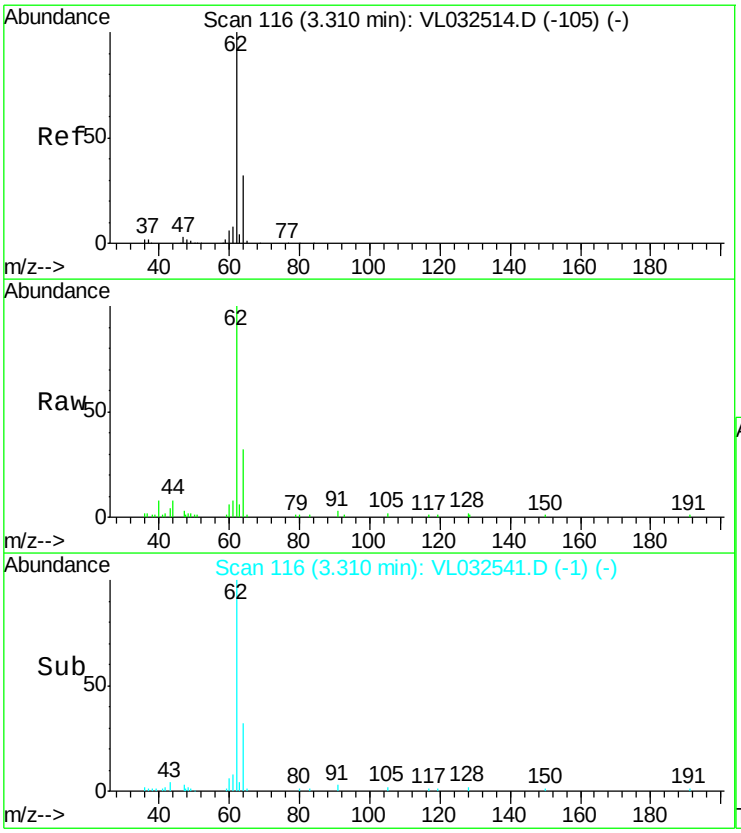

#4
Chloromethane
Concen: 0.230 ppbv
RT: 3.19 min Scan# 78
Delta R.T. -0.01 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 50 Resp: 16770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.9 | 25.6 | 38.4 |

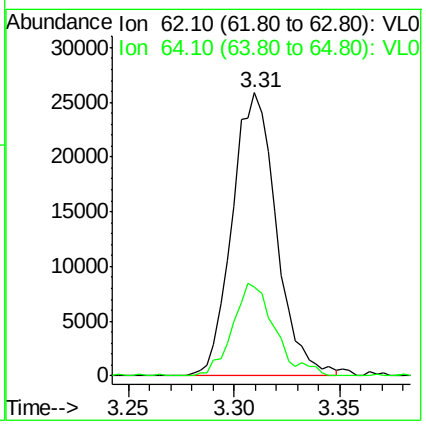


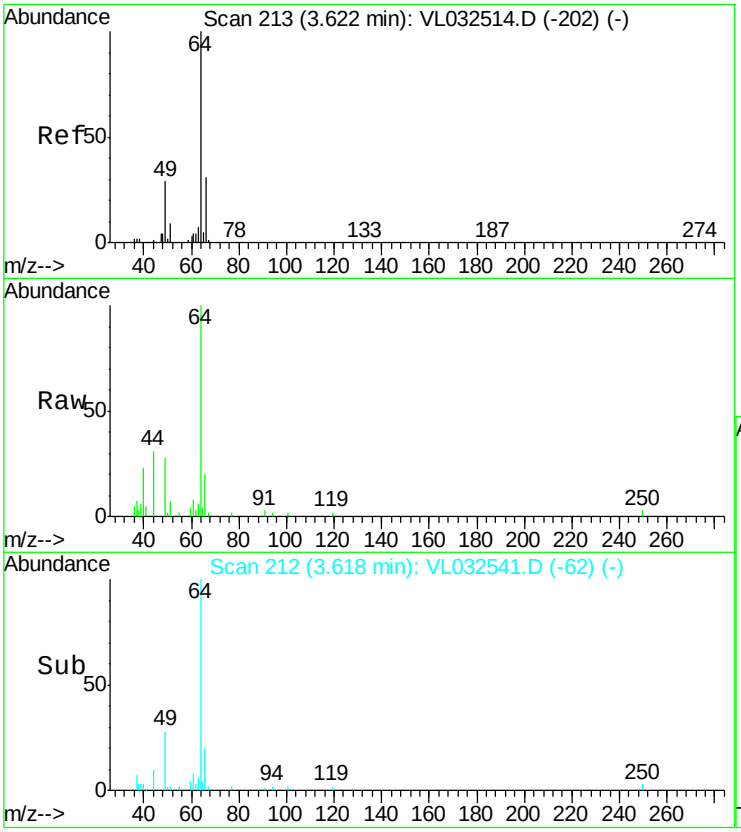




#5
Vinyl Chloride
Concen: 0.511 ppbv
RT: 3.31 min Scan# 116
Delta R.T. -0.01 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 62 Resp: 37669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.0 | 37.6 |



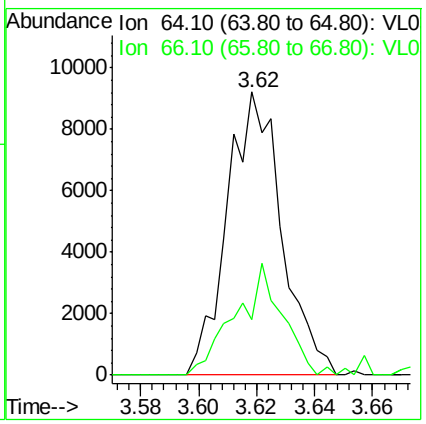


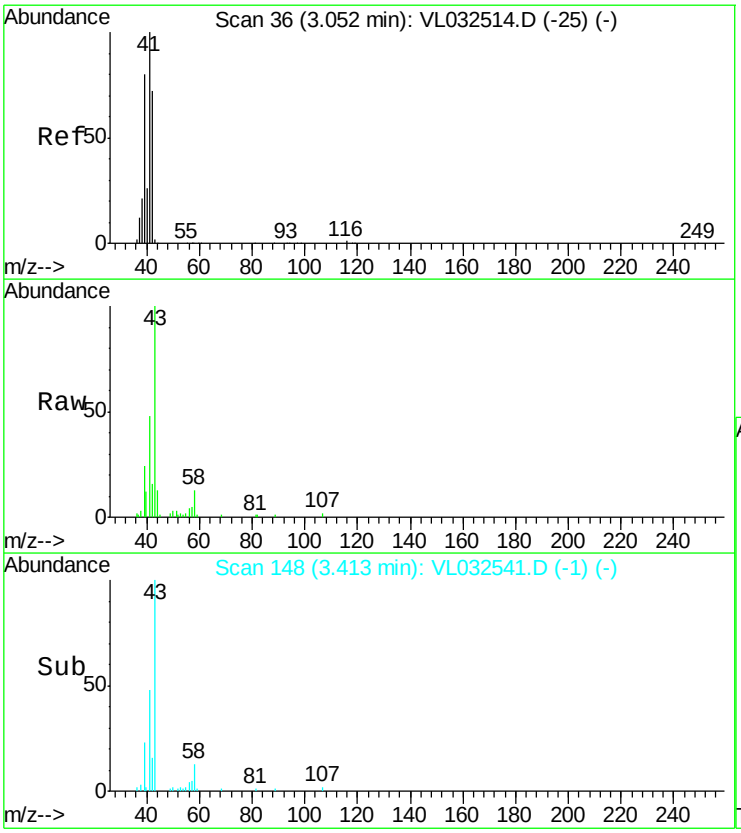

#7
Chloroethane
Concen: 0.458 ppbv
RT: 3.62 min Scan# 212
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 64 Resp: 12007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 18.8 | 25.8 | 38.6# |

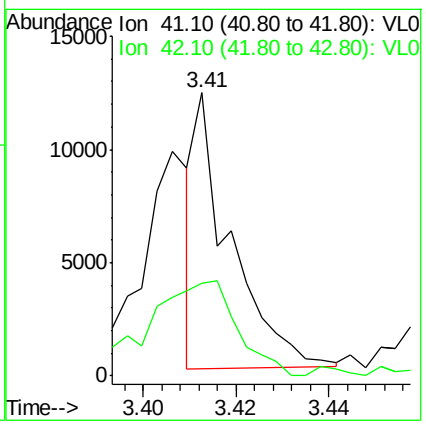


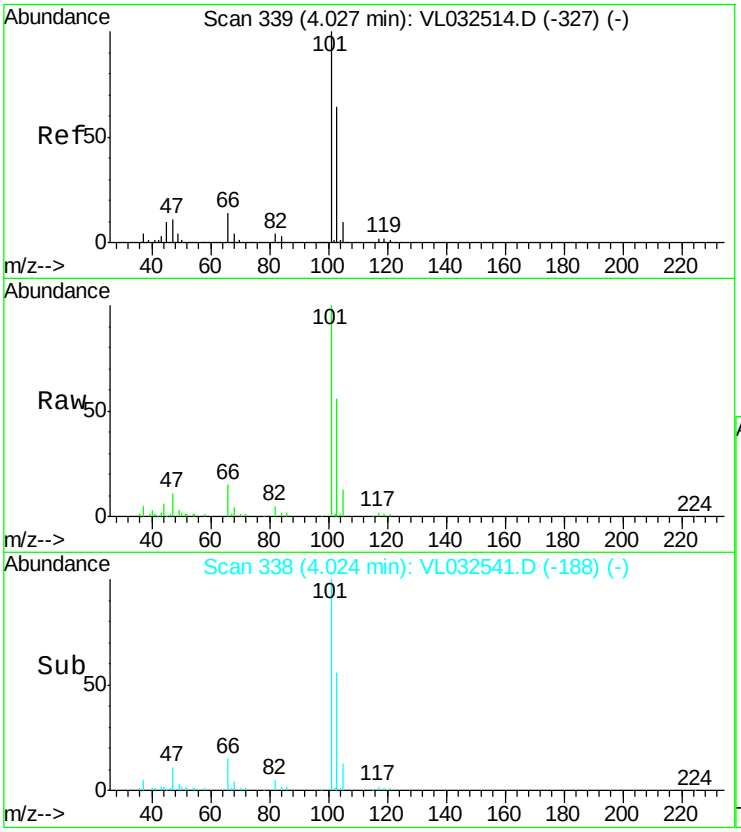




#9
Propene
Concen: 0.118 ppbv
RT: 3.41 min Scan# 148
Delta R.T. 0.35 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 41 Resp: 6400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 75.5 | 56.6 | 84.8 |



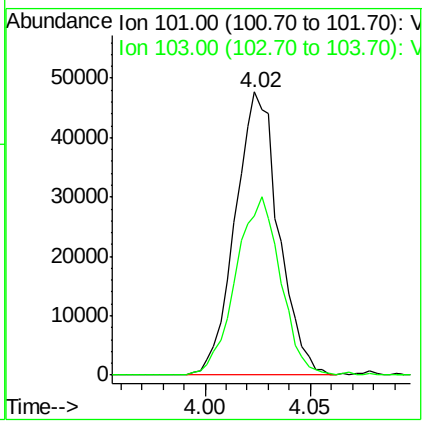


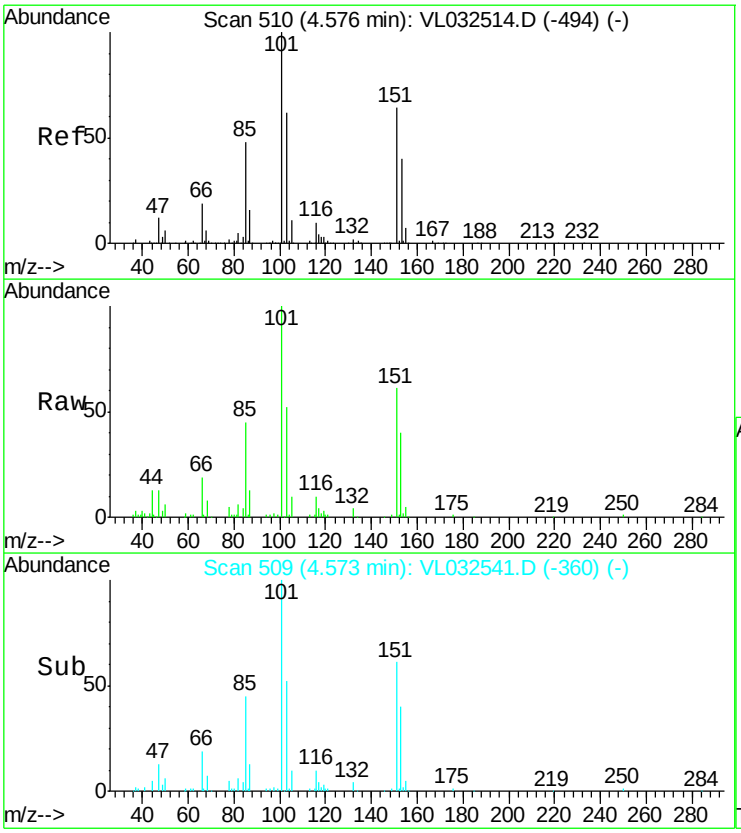

#11
Trichlorofluoromethane
Concen: 0.413 ppbv
RT: 4.02 min Scan# 338
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion:101 Resp: 68196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 56.4 | 52.8 | 79.2 |

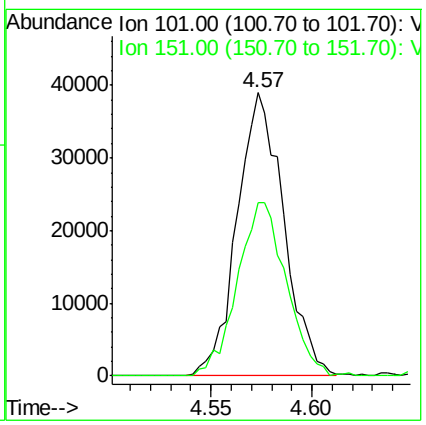


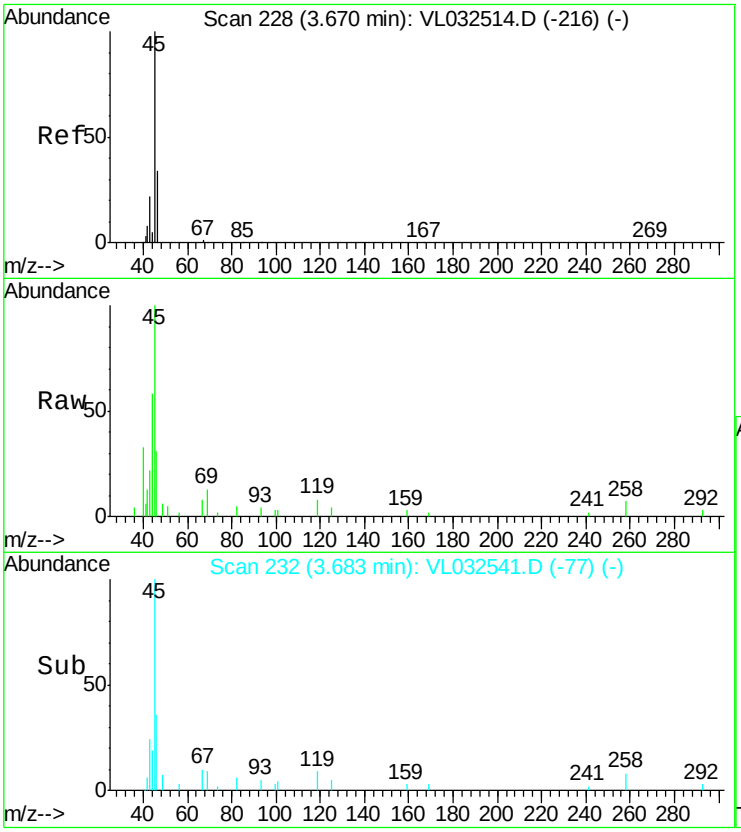




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.466 ppbv
RT: 4.57 min Scan# 509
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion:101 Resp: 62944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 64.1 | 52.6 | 78.8 |



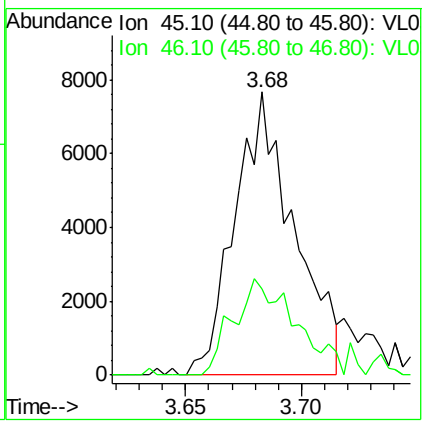


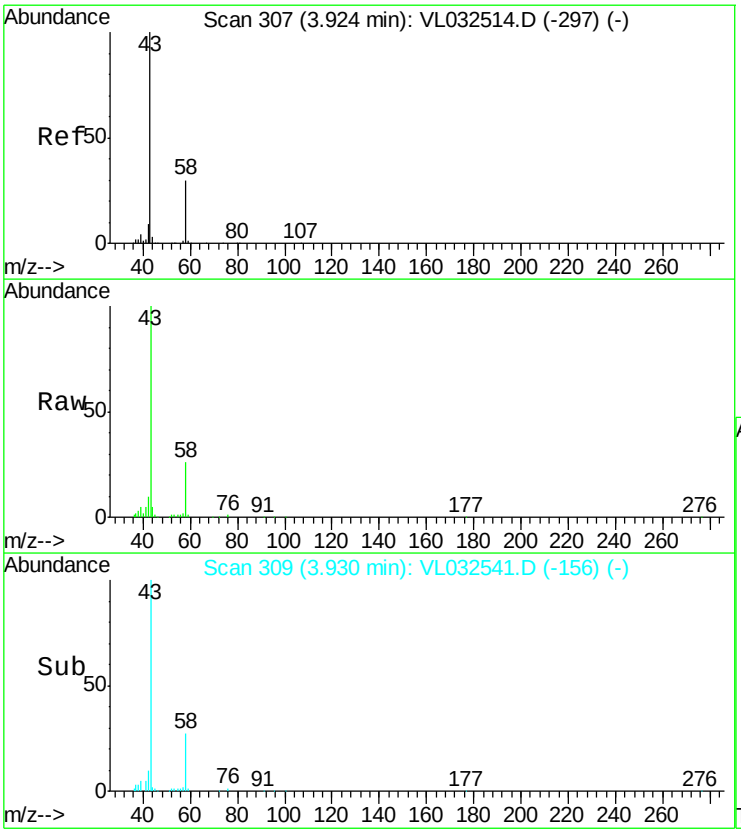

#13
Ethanol
Concen: 0.836 ppbv
RT: 3.68 min Scan# 232
Delta R.T. -0.00 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 45 Resp: 13631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.1 | 14.2 | 56.8 |

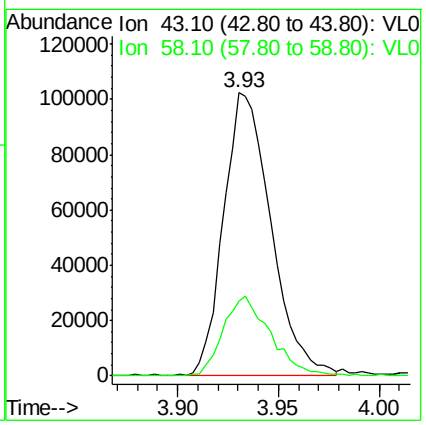


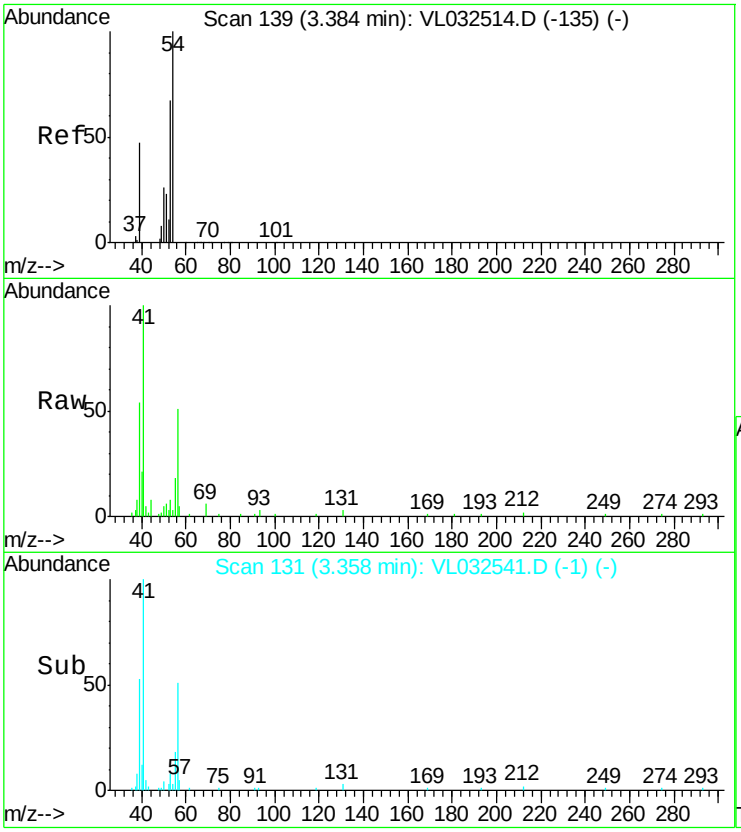




#15
Acetone
Concen: 1.269 ppbv
RT: 3.93 min Scan# 309
Delta R.T. -0.01 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 43 Resp: 167392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.5 | 22.6 | 33.8 |



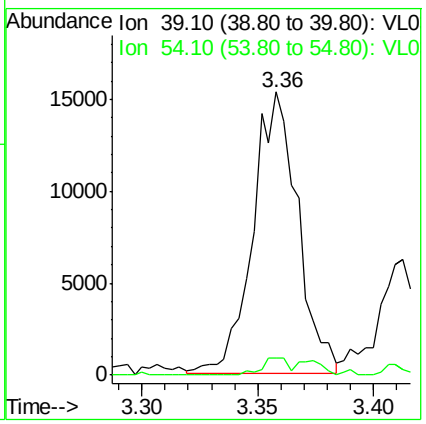


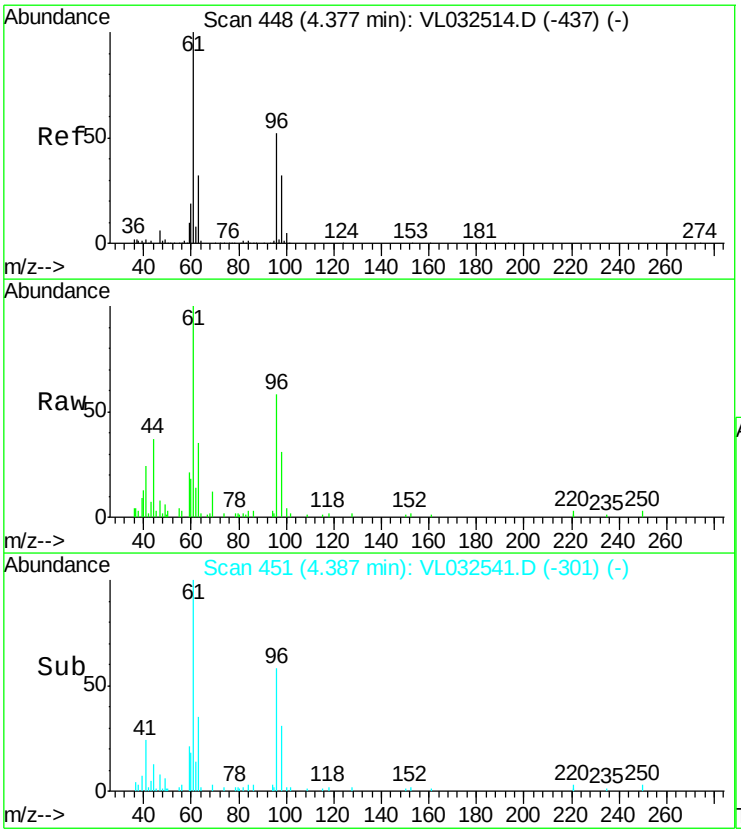

#16
1,3-Butadiene
Concen: 0.385 ppbv
RT: 3.36 min Scan# 131
Delta R.T. -0.04 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 39 Resp: 20577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 7.0 | 80.8 | 121.2# |

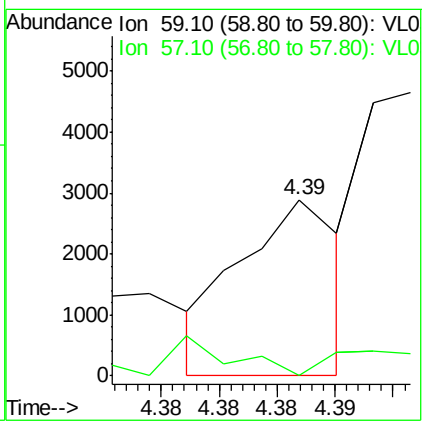


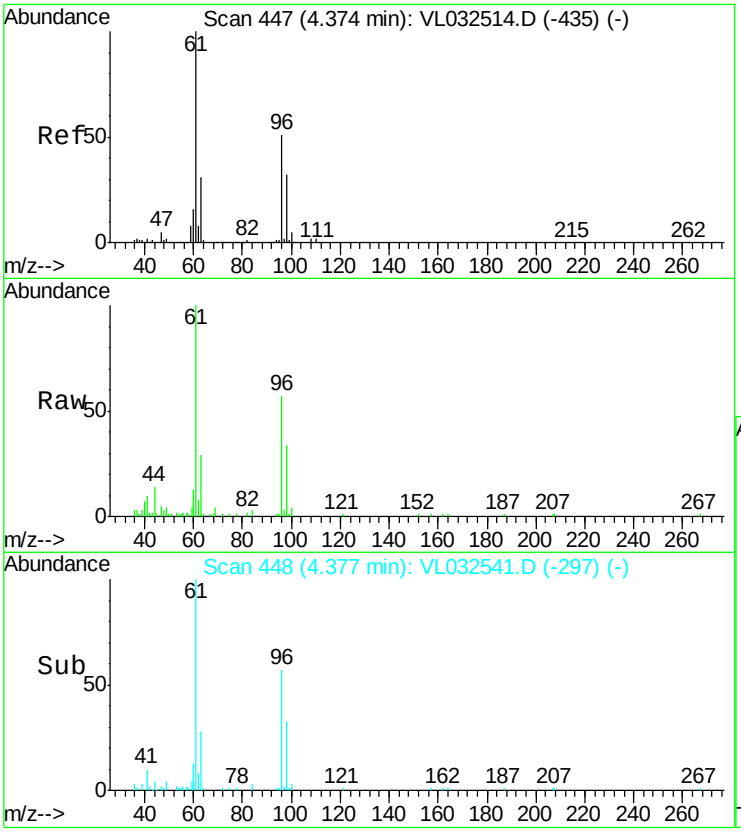




#17
tert-Butyl alcohol
Concen: 0.105 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 59 Resp: 1746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 0.0 | 0.0 |



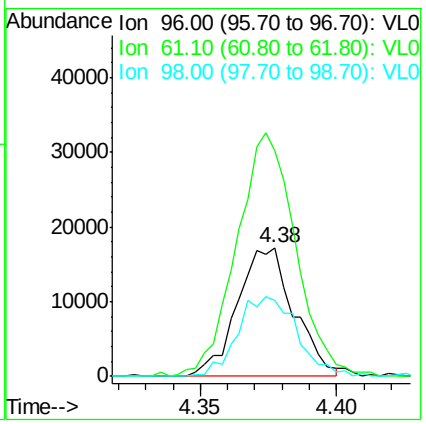


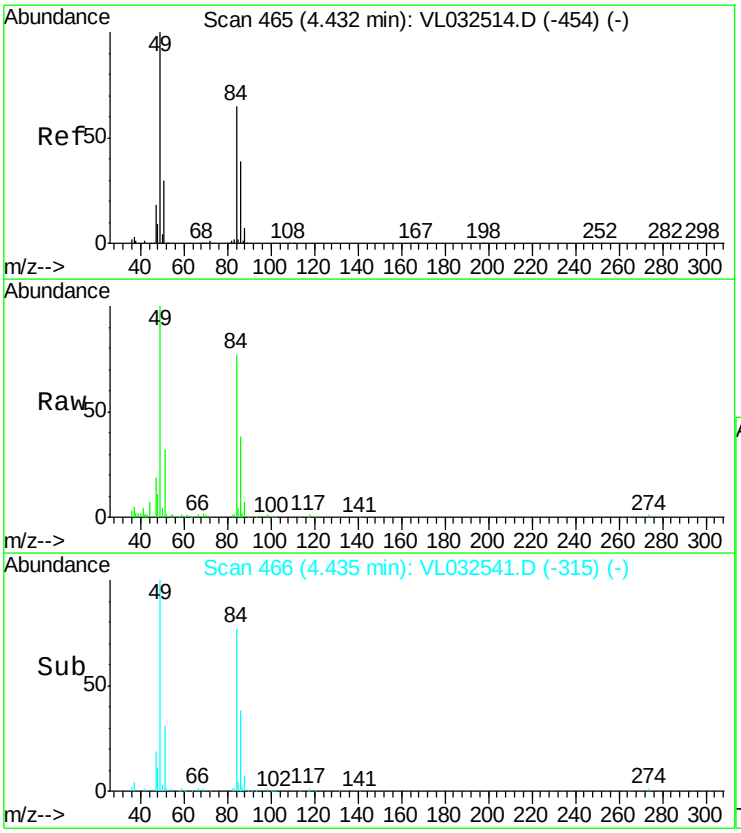

#18
1,1-Dichloroethene
Concen: 0.392 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.01 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :** MSVOA_L
**ClientSampleId :** SVE-INF3-092018DL

Tgt Ion: 96 Resp: 24792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 169.5 | 159.2 | 238.8 |
| 98 | 59.5 | 51.0 | 76.4 |

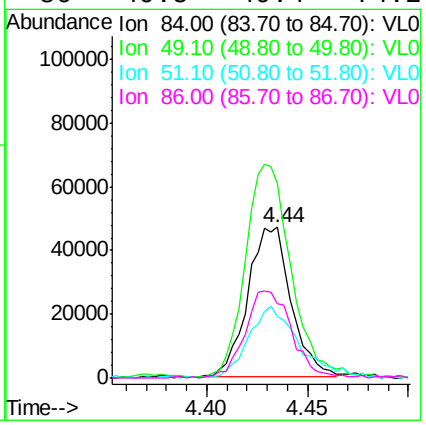


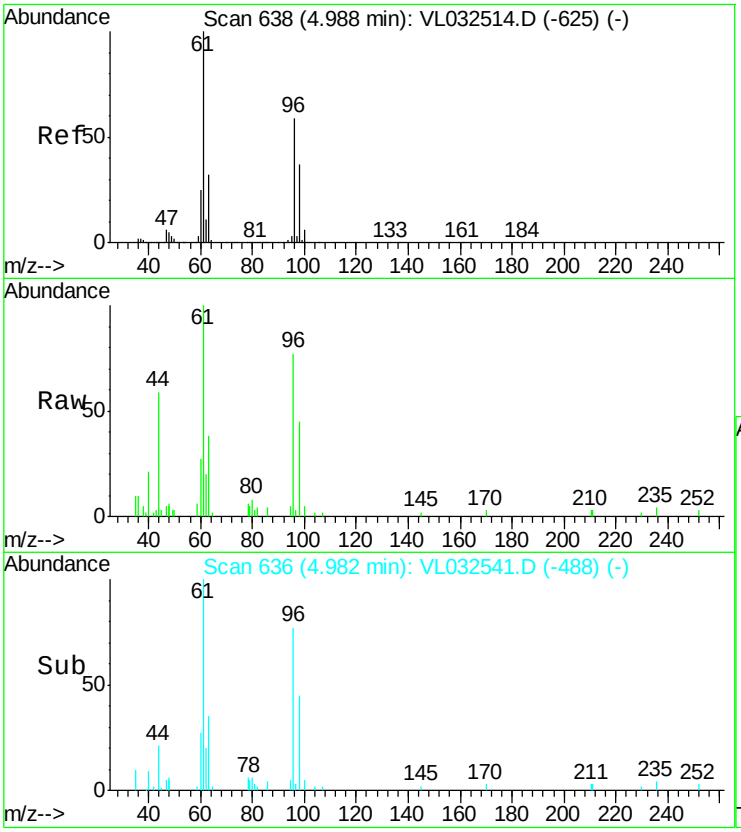




#20
Methylene Chloride
Concen: 1.113 ppbv
RT: 4.44 min Scan# 466
Delta R.T. -0.01 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 84 Resp: 71142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 129.2 | 119.1 | 178.7 |
| 51 | 40.9 | 35.2 | 52.8 |
| 86 | 49.5 | 49.4 | 74.2 |



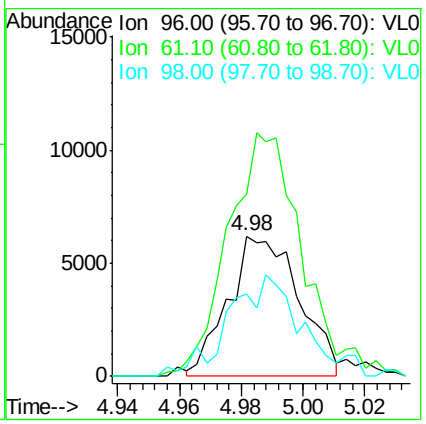


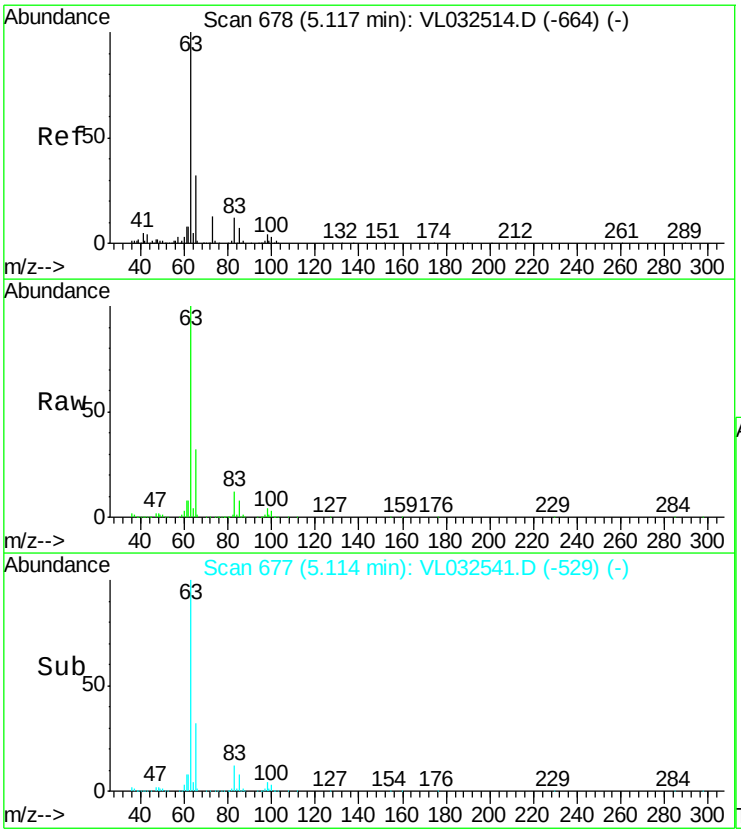

#22
trans-1,2-Dichloroethene
Concen: 0.166 ppbv
RT: 4.98 min Scan# 636
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 96 Resp: 9880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 123.8 | 136.2 | 204.4# |
| 98 | 53.8 | 50.4 | 75.6 |

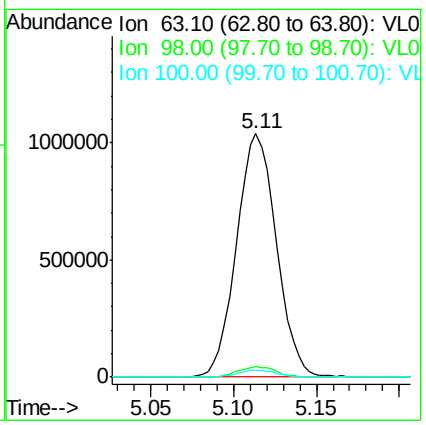


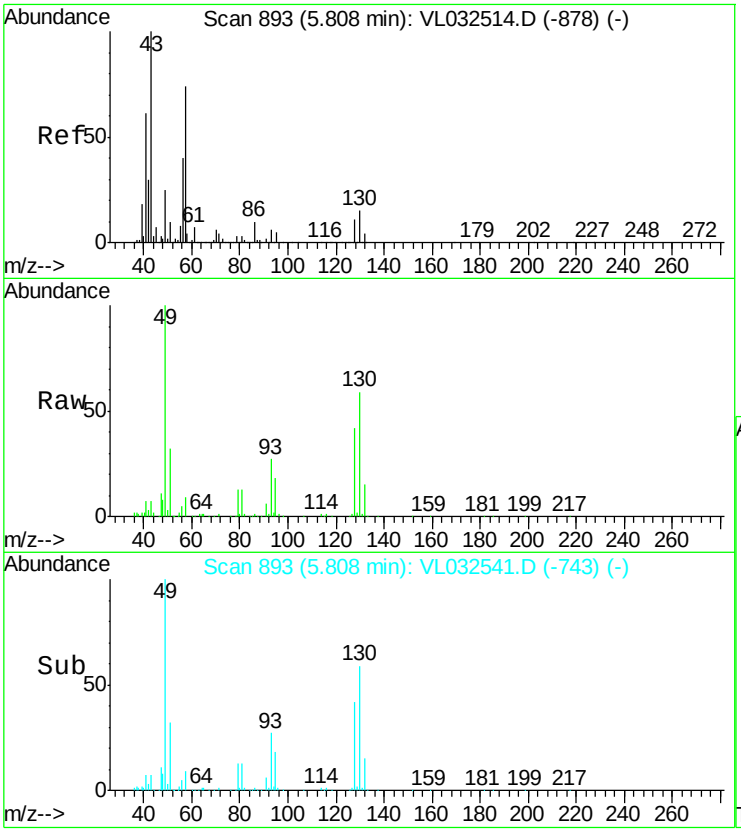




#24
1,1-Dichloroethane
Concen: 8.947 ppbv
RT: 5.11 min Scan# 677
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 63 Resp: 1736980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.2 | 2.1 | 6.5 |
| 100 | 2.8 | 1.5 | 4.4 |



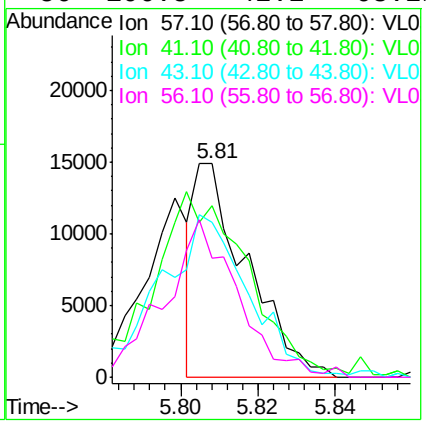


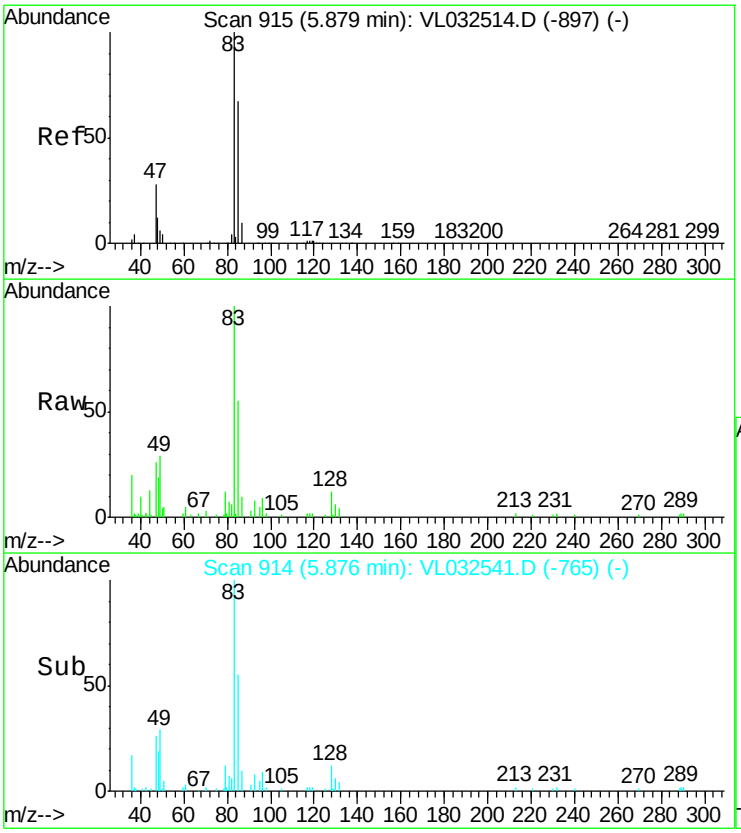

#26
Hexane
Concen: 0.096 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 57 Resp: 13934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 165.1 | 69.0 | 103.4# |
| 43 | 135.0 | 172.1 | 258.1# |
| 56 | 106.5 | 42.2 | 63.2# |

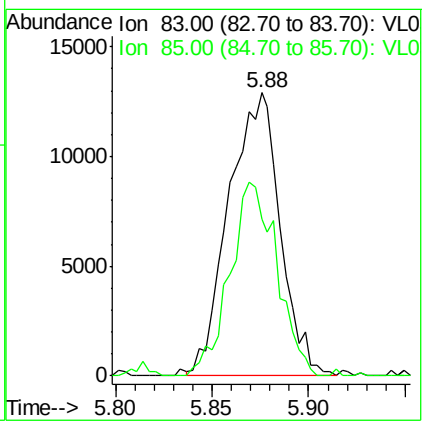


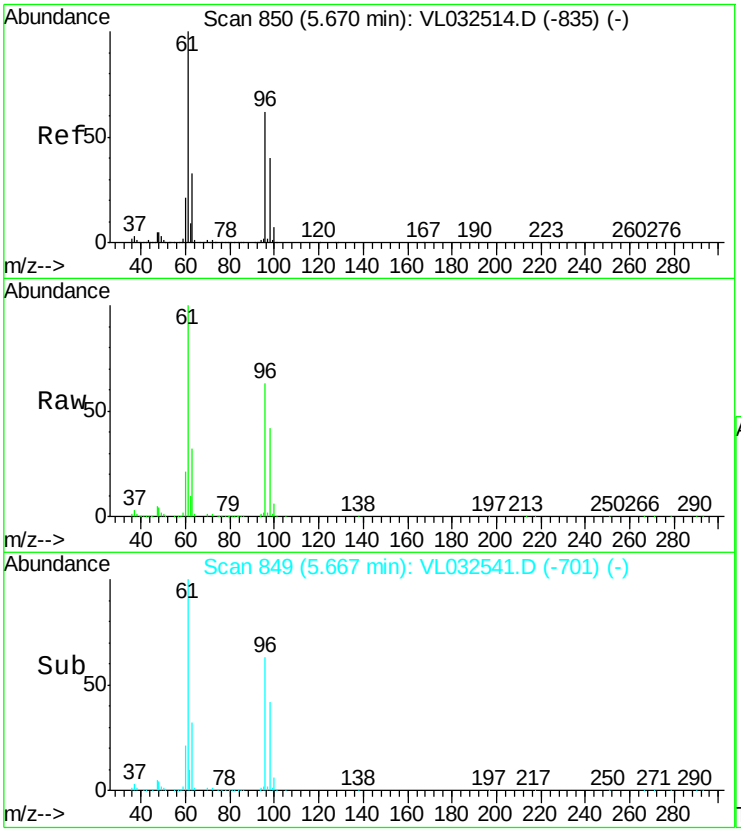




#29
Chloroform
Concen: 0.107 ppbv
RT: 5.88 min Scan# 914
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 83 Resp: 23849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 55.3 | 52.5 | 78.7 |



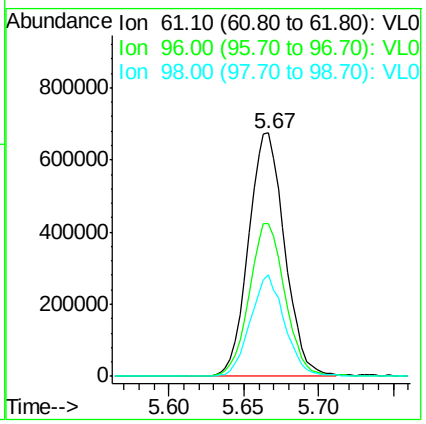


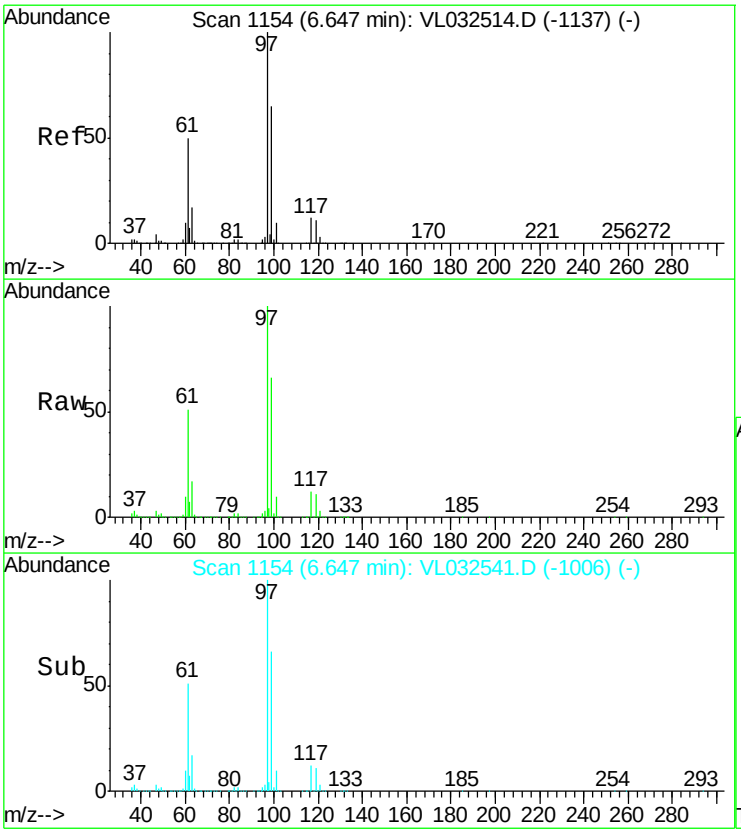

#31
cis-1,2-Dichloroethene
Concen: 8.245 ppbv
RT: 5.67 min Scan# 849
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 61 Resp: 1135508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.8 | 49.2 | 73.8 |
| 98 | 41.9 | 30.7 | 46.1 |

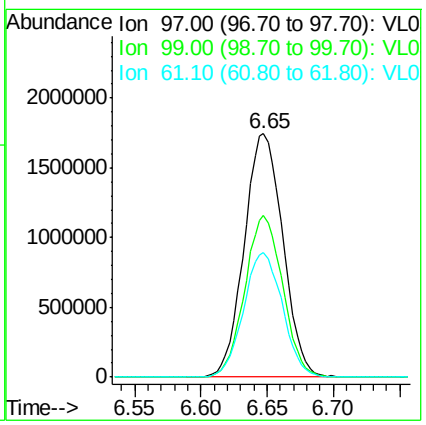


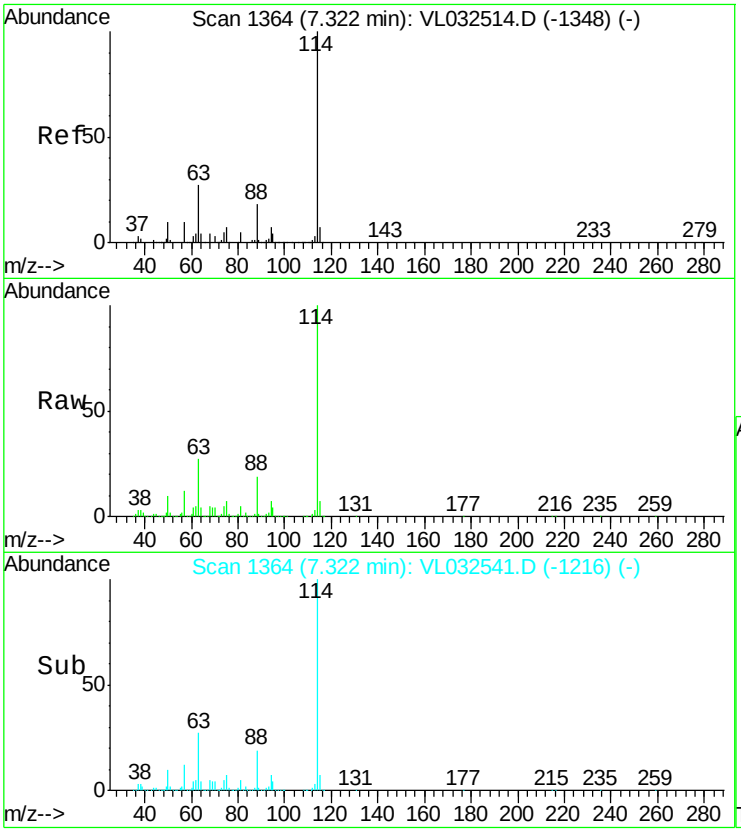




#32
1,1,1-Trichloroethane
Concen: 15.000 ppbv
RT: 6.65 min Scan# 1154
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 97 Resp: 3546925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.9 | 52.1 | 78.1 |
| 61 | 51.4 | 42.5 | 63.7 |



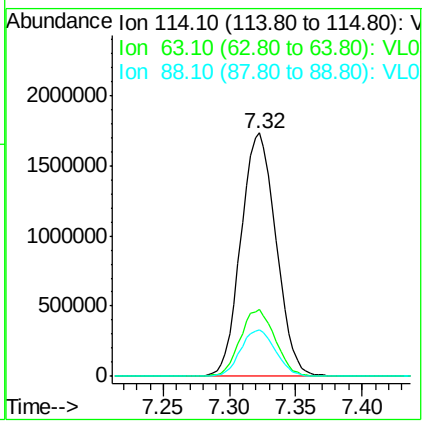


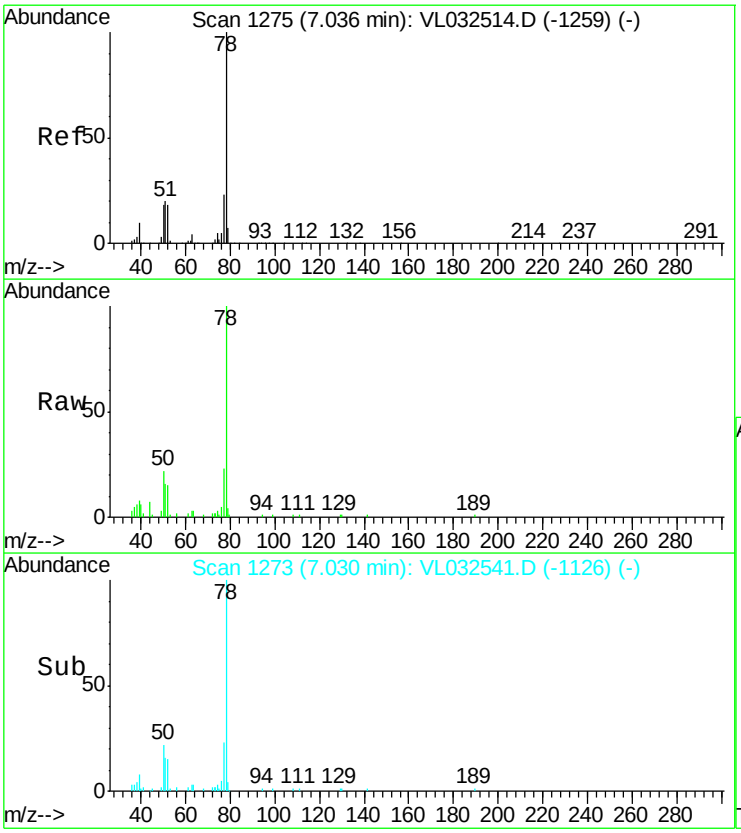

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.32 min Scan# 1364
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion:114 Resp: 3195443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.4 | 22.2 | 33.4 |
| 88 | 18.9 | 15.0 | 22.4 |

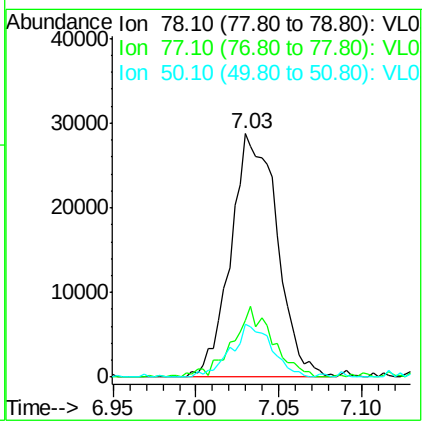


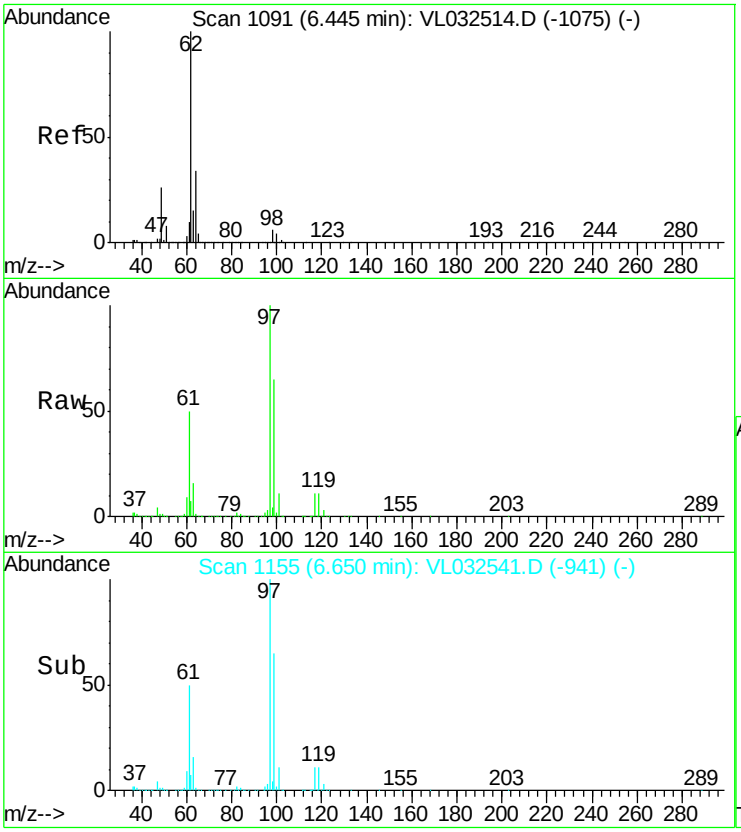




#36
Benzene
Concen: 0.216 ppbv
RT: 7.03 min Scan# 1273
Delta R.T. -0.03 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 78 Resp: 55817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.7 | 18.4 | 27.6 |
| 50 | 21.8 | 14.4 | 21.6# |



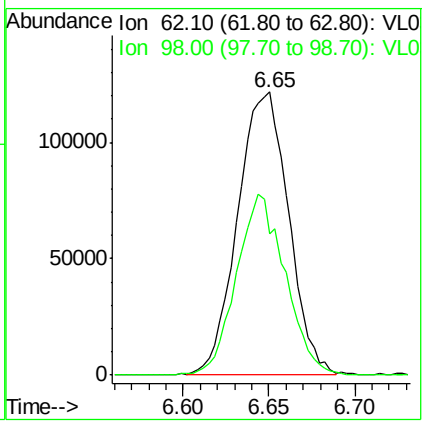


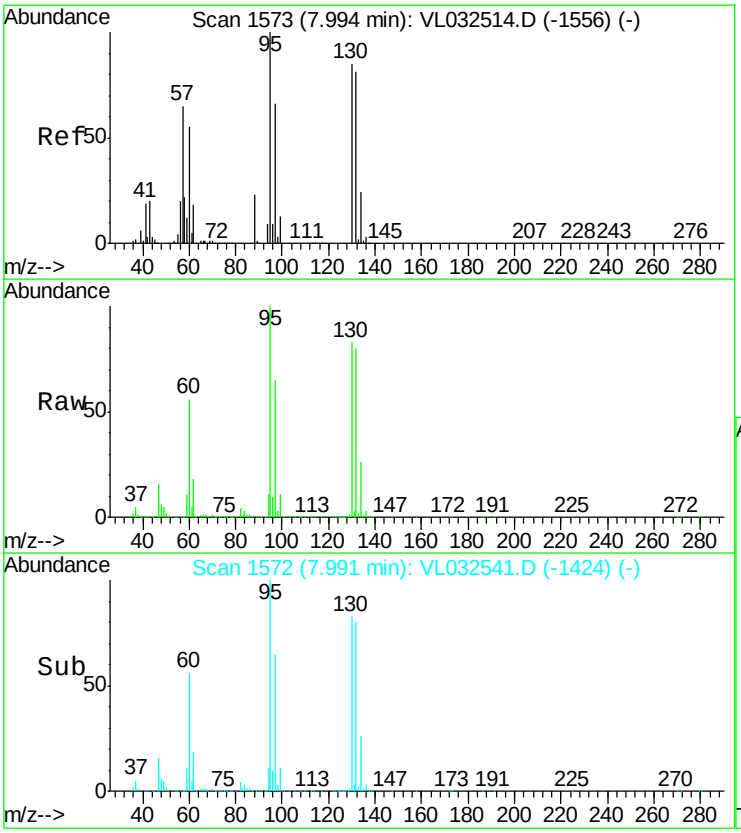

#37
1,2-Dichloroethane
Concen: 1.602 ppbv
RT: 6.65 min Scan# 1155
Delta R.T. 0.19 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 62 Resp: 249295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 61.4 | 5.0 | 7.6# |

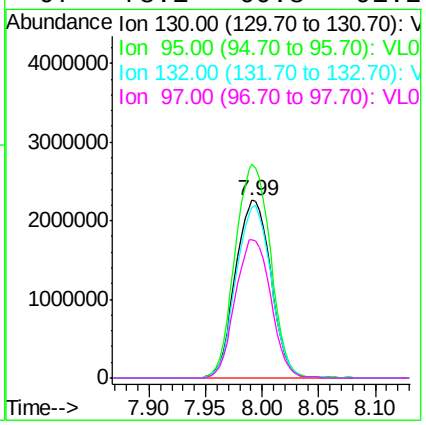


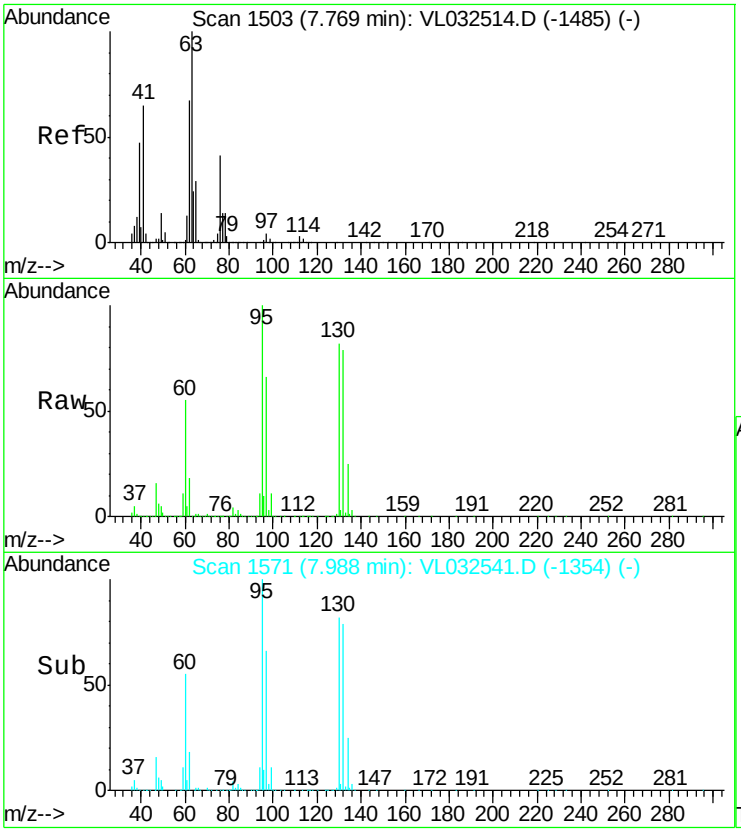




#38
Trichloroethene
Concen: 49.986 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion:130 Resp: 4940901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 120.3 | 94.2 | 141.4 |
| 132 | 96.0 | 76.2 | 114.4 |
| 97 | 78.1 | 60.8 | 91.2 |



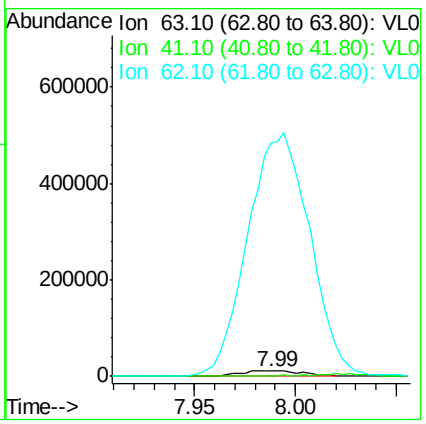


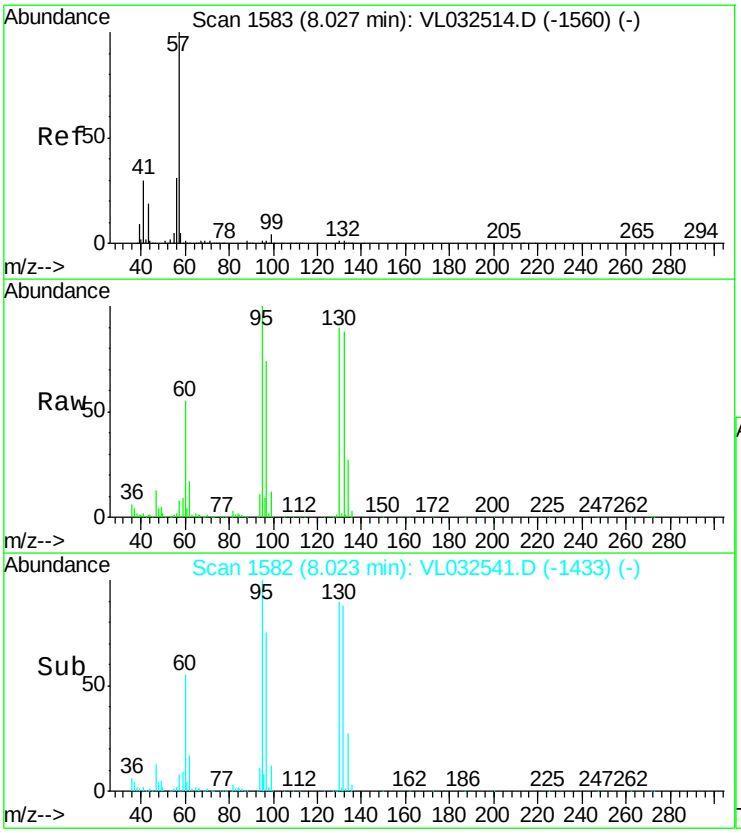

#39
1,2-Dichloropropane
Concen: 0.220 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.20 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 63 Resp: 25554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 13.2 | 55.4 | 83.0# |
| 62 | 4397.0 | 55.4 | 83.0# |

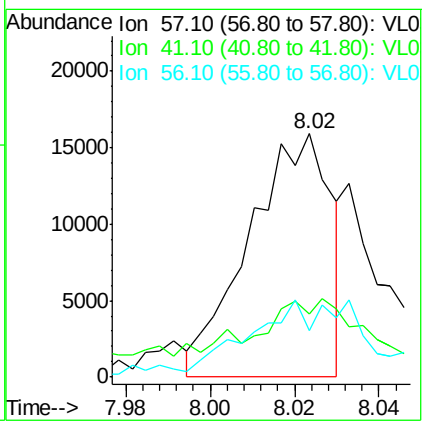


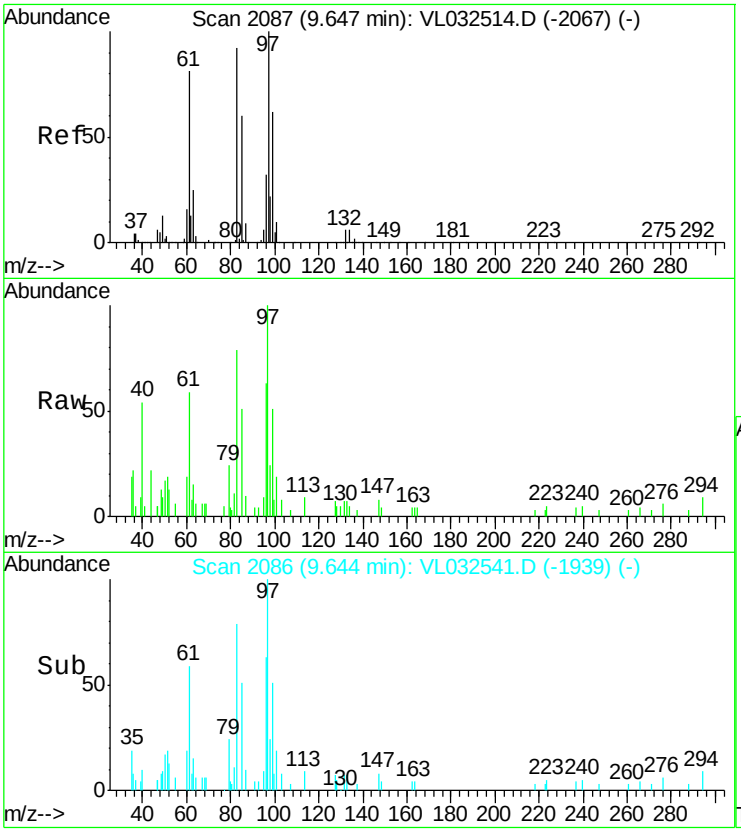




#44
2,2,4-Trimethylpentane
Concen: 0.043 ppbv
RT: 8.02 min Scan# 1582
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 57 Resp: 21473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 70.1 | 24.4 | 36.6# |
| 56 | 48.3 | 25.7 | 38.5# |



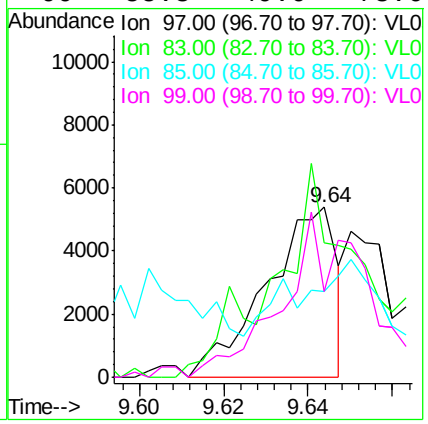


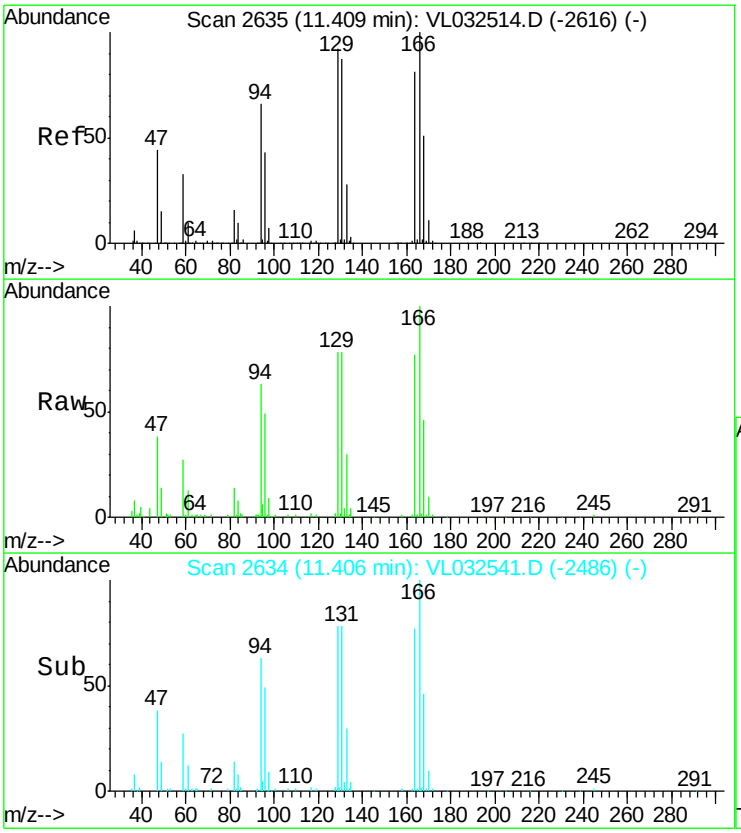

#47
1,1,2-Trichloroethane
Concen: 0.048 ppbv
RT: 9.64 min Scan# 2086
Delta R.T. -0.03 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion: 97 Resp: 6197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 72.1 | 75.0 | 112.4# |
| 85 | 5.1 | 47.5 | 71.3# |
| 99 | 55.3 | 49.0 | 73.6 |

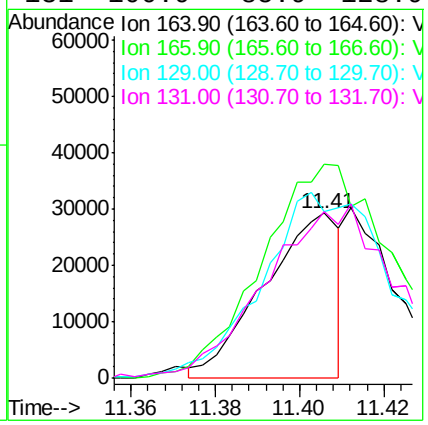


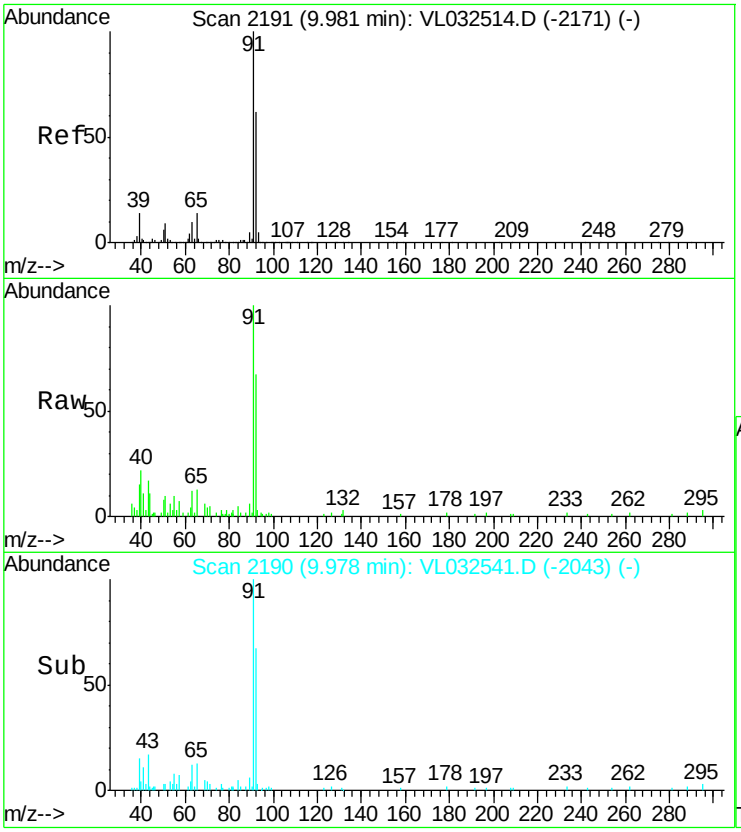




#52
Tetrachloroethene
Concen: 0.402 ppbv
RT: 11.41 min Scan# 2634
Delta R.T. -0.02 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion:164 Resp: 36141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.4 | 100.6 | 150.8 |
| 129 | 96.9 | 89.9 | 134.9 |
| 131 | 100.9 | 85.9 | 128.9 |



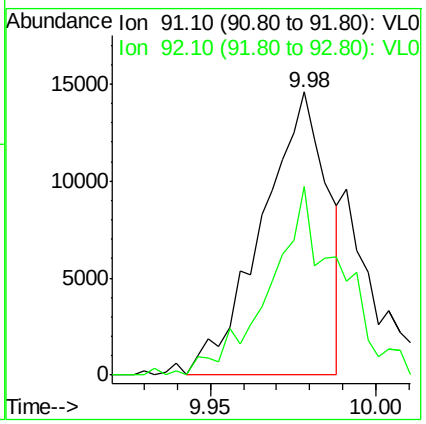


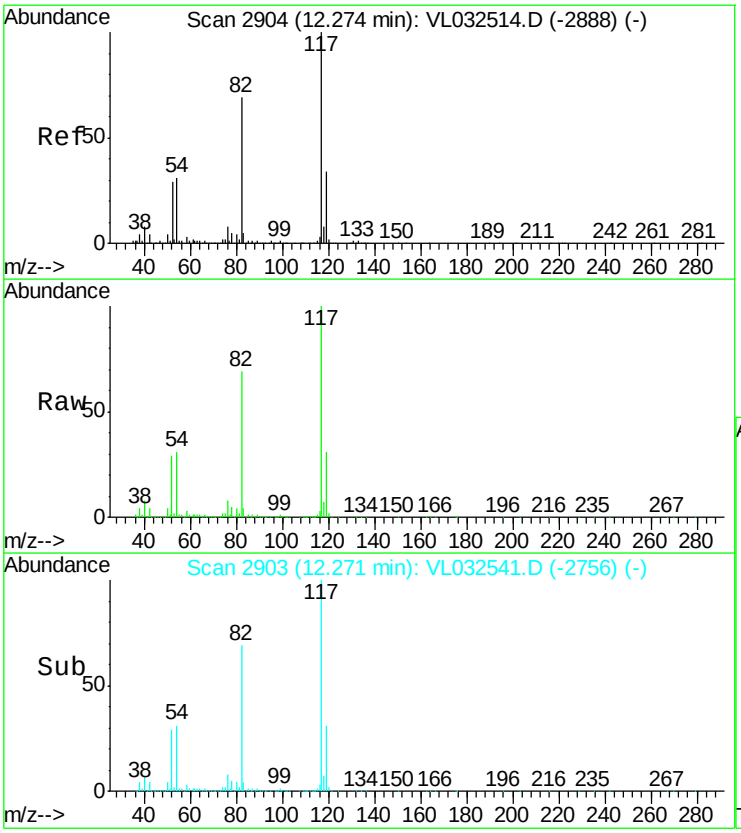

#53
Toluene
Concen: 0.064 ppbv
RT: 9.98 min Scan# 2190
Delta R.T. -0.03 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :** MSVOA_L
**ClientSampleId :** SVE-INF3-092018DL

Tgt Ion: 91 Resp: 20087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 73.2 | 48.1 | 72.1# |

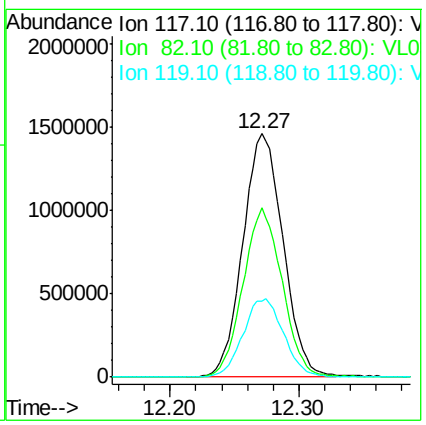


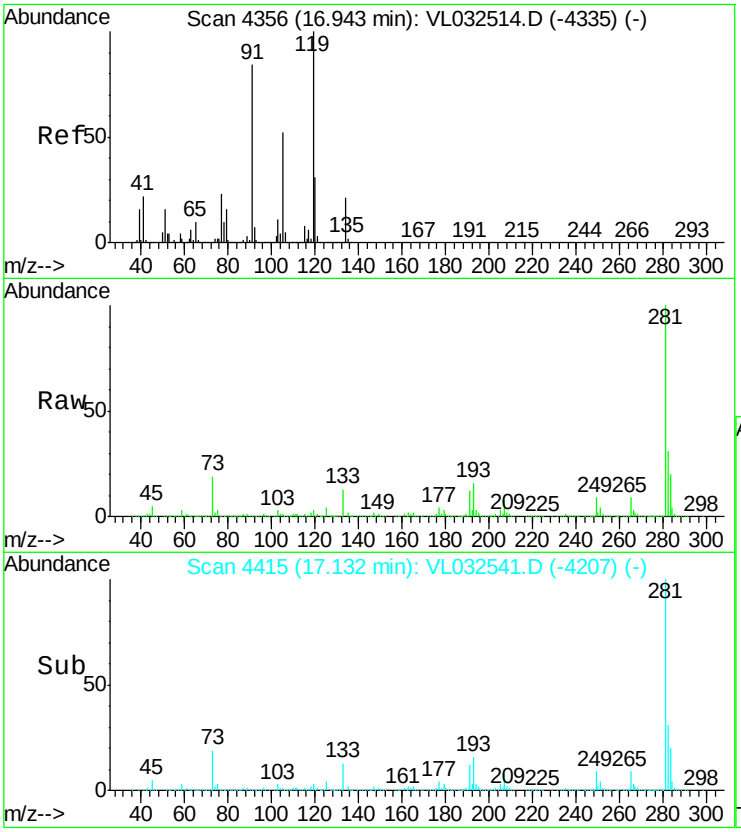




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.03 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion:117 Resp: 3167406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.1 | 53.0 | 79.6 |
| 119 | 32.7 | 45.9 | 68.9# |



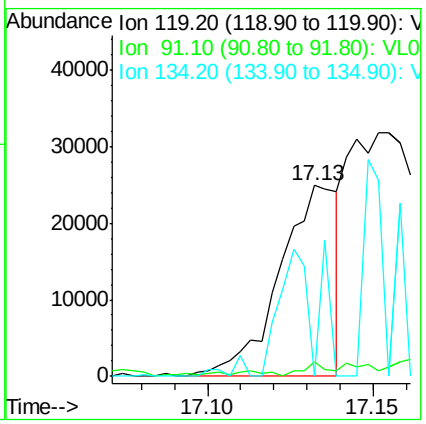


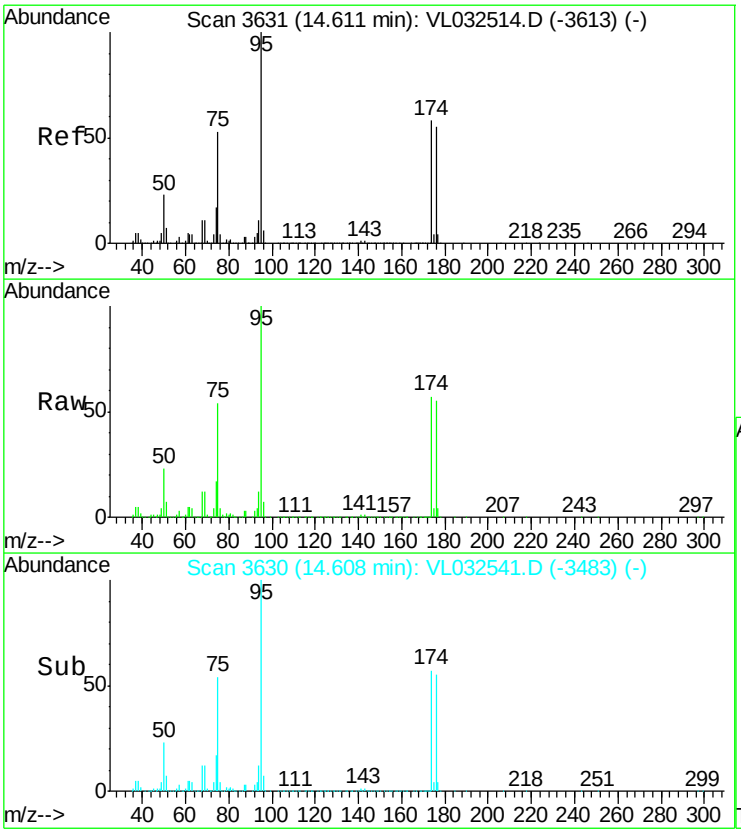

#65
tert-Butylbenzene
Concen: 0.075 ppbv
RT: 17.13 min Scan# 4415
Delta R.T. 0.17 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

**Instrument :**
MSVOA_L
**ClientSampleId :**
SVE-INF3-092018DL

Tgt Ion:119 Resp: 30276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 9.5 | 66.5 | 99.7# |
| 134 | 34.4 | 16.0 | 24.0# |




#68
1-Bromo-4-Fluorobenzene
Concen: 10.196 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032541.D
Acq: 25 Sep 2018 12:14

Tgt Ion: 95 Resp: 2435514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 57.6 | 46.3 | 69.5 |
| 175 | 4.1 | 3.4 | 5.0 |