Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\

Quantitation Report (Not Reviewed)

Data File : VU031980.D
Acq On : 13 May 2019 19:55
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Quant Time: May 14 02:44:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue May 14 02:38:02 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.88 | 114 | 481137 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.09 | 117 | 476928 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152 | 214704 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.40 | 65 | 142719 | 4.35 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 87.00% | | | |
| 7) Chloroethane-d5 | 1.67 | 69 | 137061 | 5.07 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 101.40% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.27 | 63 | 288035 | 4.08 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 81.60% | | | |
| 20) 2-Butanone-d5 | 4.19 | 46 | 551804 | 43.10 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 86.20% | | | |
| 24) Chloroform-d | 4.64 | 84 | 301986 | 4.49 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 89.80% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.31 | 65 | 161003 | 3.94 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 78.80% | | | |
| 32) Benzene-d6 | 5.33 | 84 | 541352 | 4.44 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 88.80% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.33 | 67 | 194920 | 4.35 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 87.00% | | | |
| 41) Toluene-d8 | 7.56 | 98 | 443994 | 4.25 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 85.00% | | | |
| 43) trans-1,3-Dichloropropene- | 7.85 | 79 | 67472 | 4.29 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 85.80% | | | |
| 46) 2-Hexanone-d5 | 8.31 | 63 | 458244 | 57.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 115.18% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84 | 180672 | 5.17 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 103.40% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.85 | 152 | 175787 | 4.95 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 99.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.21 | 85 | 212208 | 3.831 | ug/L | 97 |
| 3) Chloromethane | 1.32 | 50 | 231546 | 3.507 | ug/L | 99 |
| 5) Vinyl chloride | 1.40 | 62 | 244583 | 4.239 | ug/L | 97 |
| 6) Bromomethane | 1.62 | 94 | 113847 | 4.298 | ug/L | 94 |
| 8) Chloroethane | 1.69 | 64 | 150949 | 4.750 | ug/L | 99 |
| 9) Trichlorofluoromethane | 1.88 | 101 | 297915 | 4.464 | ug/L | 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 184936 | 5.325 | ug/L | 95 |
| 12) 1,1-Dichloroethene | 2.28 | 96 | 181066 | 5.536 | ug/L | 74 |
| 13) Acetone | 2.33 | 43 | 341478 | 39.052 | ug/L | 82 |
| 14) Carbon disulfide | 2.47 | 76 | 532813 | 4.628 | ug/L | 100 |
| 15) Methyl Acetate | 2.62 | 43 | 96771 | 4.290 | ug/L # | 89 |
| 16) Methylene chloride | 2.69 | 84 | 215325 | 4.745 | ug/L | 81 |
| 17) Methyl tert-butyl Ether | 3.00 | 73 | 509551 | 5.230 | ug/L # | 90 |
| 18) trans-1,2-Dichloroethene | 2.97 | 96 | 195190 | 5.537 | ug/L | 80 |
| 19) 1,1-Dichloroethane | 3.44 | 63 | 367786 | 4.242 | ug/L | 98 |
| 21) 2-Butanone | 4.28 | 43 | 557776 | 38.172 | ug/L | 87 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 210223 | 4.965 | ug/L | 76 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\

Quantitation Report (Not Reviewed)

Data File : VU031980.D
Acq On : 13 May 2019 19:55
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Quant Time: May 14 02:44:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue May 14 02:38:02 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 23) Bromochloromethane | 4.54 | 128 | 85643 | 5.041 | ug/L | # | 75 |
| 25) Chloroform | 4.67 | 83 | 366641 | 4.297 | ug/L | | 98 |
| 27) 1,2-Dichloroethane | 5.40 | 62 | 223801 | 3.974 | ug/L | # | 91 |
| 29) 1,1,1-Trichloroethane | 4.91 | 97 | 282053 | 4.315 | ug/L | | 97 |
| 30) Cyclohexane | 4.99 | 56 | 292069 | 4.080 | ug/L | | 88 |
| 31) Carbon tetrachloride | 5.13 | 117 | 239227 | 4.298 | ug/L | | 100 |
| 33) Benzene | 5.38 | 78 | 787370 | 4.735 | ug/L | | 100 |
| 34) Trichloroethene | 6.18 | 95 | 198346 | 4.731 | ug/L | | 94 |
| 35) Methylcyclohexane | 6.41 | 83 | 287344 | 4.771 | ug/L | | 88 |
| 37) 1,2-Dichloropropane | 6.43 | 63 | 212969 | 4.475 | ug/L | # | 98 |
| 38) Bromodichloromethane | 6.75 | 83 | 251065 | 4.429 | ug/L | | 93 |
| 39) cis-1,3-Dichloropropene | 7.27 | 75 | 271509 | 4.553 | ug/L | | 98 |
| 40) 4-Methyl-2-pentanone | 7.46 | 43 | 1314964 | 41.056 | ug/L | # | 89 |
| 42) Toluene | 7.63 | 91 | 845656 | 5.150 | ug/L | | 99 |
| 44) trans-1,3-Dichloropropene | 7.88 | 75 | 220236 | 4.663 | ug/L | | 97 |
| 45) 1,1,2-Trichloroethane | 8.06 | 97 | 147552 | 5.233 | ug/L | | 98 |
| 47) Tetrachloroethene | 8.22 | 164 | 137090 | 5.028 | ug/L | | 95 |
| 48) 2-Hexanone | 8.36 | 43 | 984294 | 43.239 | ug/L | # | 90 |
| 49) Dibromochloromethane | 8.47 | 129 | 160778 | 4.903 | ug/L | | 94 |
| 50) 1,2-Dibromoethane | 8.58 | 107 | 137616 | 5.363 | ug/L | # | 98 |
| 51) Chlorobenzene | 9.12 | 112 | 504096 | 5.165 | ug/L | | 94 |
| 52) Ethylbenzene | 9.25 | 91 | 849177 | 4.958 | ug/L | | 99 |
| 53) m,p-Xylene | 9.37 | 106 | 318452 | 5.223 | ug/L | | 93 |
| 54) o-Xylene | 9.77 | 106 | 313976 | 5.385 | ug/L | | 93 |
| 55) Styrene | 9.79 | 104 | 559653 | 5.593 | ug/L | | 91 |
| 56) Isopropylbenzene | 10.16 | 105 | 813615 | 5.212 | ug/L | | 98 |
| 58) 1,1,2,2-Tetrachloroethane | 10.45 | 83 | 192970 | 5.124 | ug/L | | 98 |
| 59) 1,2,3-Trichloropropane | 10.49 | 75 | 133588 | 4.742 | ug/L | | 98 |
| 61) Bromoform | 9.95 | 173 | 87434 | 5.090 | ug/L | | 100 |
| 62) 1,3-Dichlorobenzene | 11.41 | 146 | 350261 | 5.137 | ug/L | | 99 |
| 63) 1,4-Dichlorobenzene | 11.50 | 146 | 359262 | 5.195 | ug/L | | 99 |
| 65) 1,2-Dichlorobenzene | 11.87 | 146 | 357199 | 5.370 | ug/L | | 97 |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75 | 29568 | 4.728 | ug/L | # | 76 |
| 67) 1,3,5-Trichlorobenzene | 12.88 | 180 | 266314 | 5.141 | ug/L | | 98 |
| 68) 1,2,4-trichlorobenzene | 13.50 | 180 | 197793 | 5.169 | ug/L | | 97 |
| 69) Naphthalene | 13.74 | 128 | 353758 | 5.390 | ug/L | | 100 |
| 70) 1,2,3-Trichlorobenzene | 13.98 | 180 | 206797 | 5.806 | ug/L | | 97 |

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

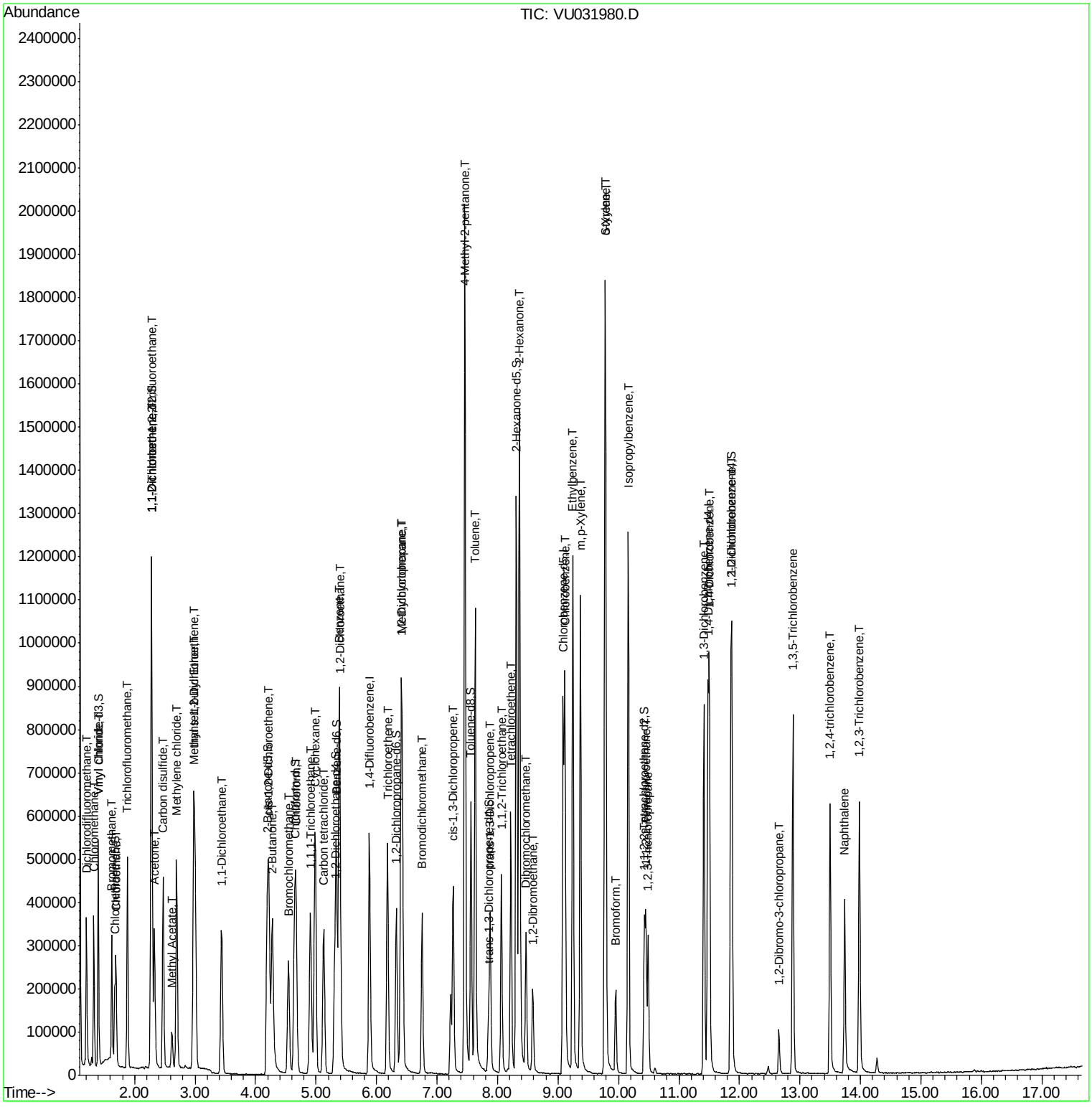
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\

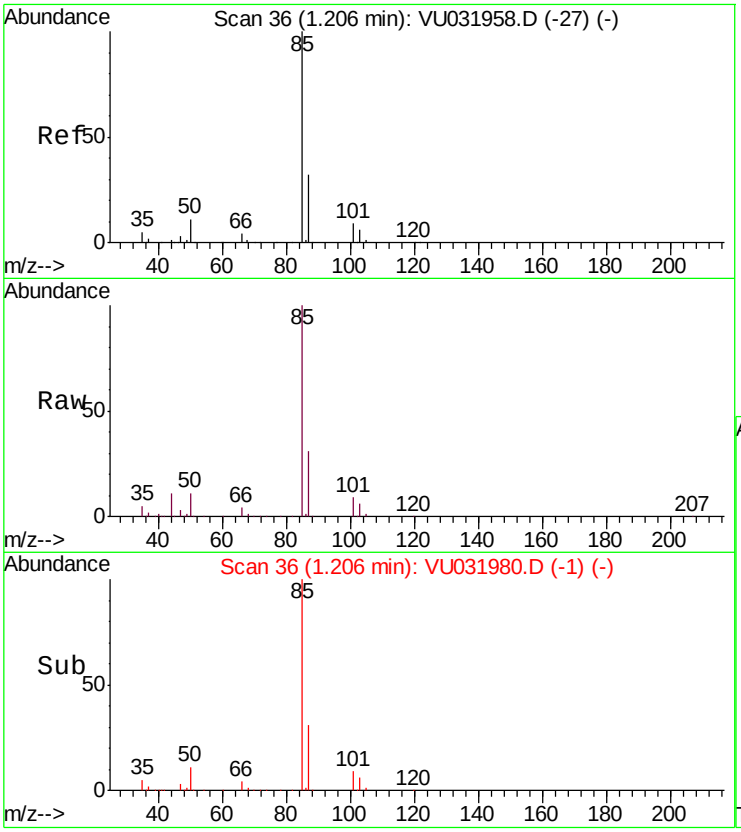
Quantitation Report (Not Reviewed)

Data File : VU031980.D
Acq On : 13 May 2019 19:55
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Quant Time: May 14 02:44:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue May 14 02:38:02 2019
Response via : Initial Calibration



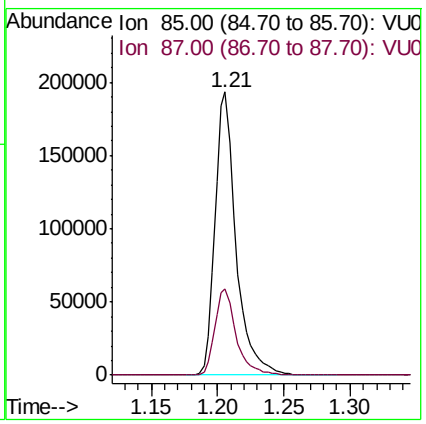


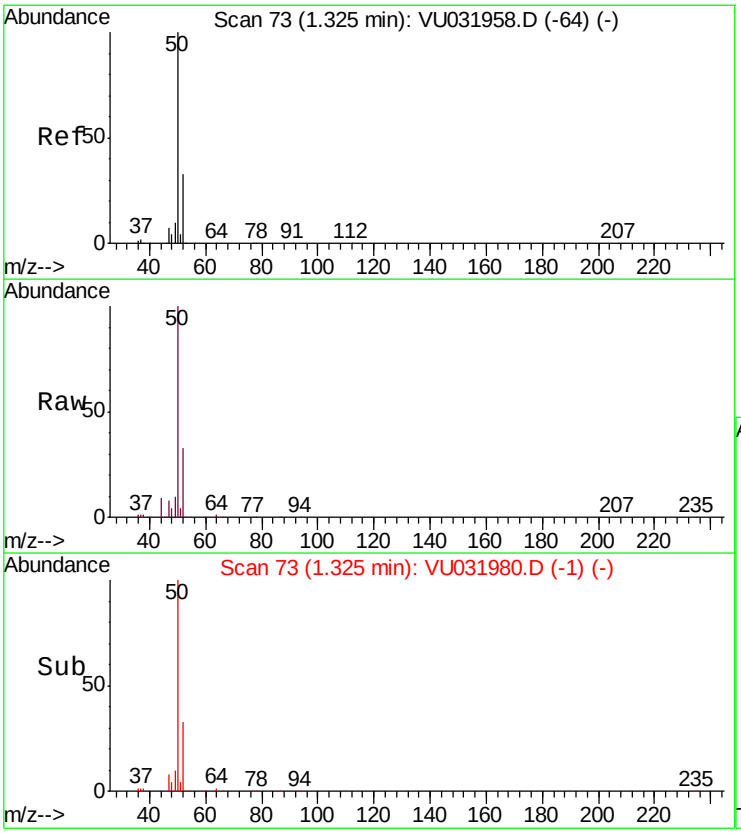

#2
Dichlorodifluoromethane
Concen: 3.831 ug/L
RT: 1.21 min Scan# 36
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 85 Resp: 212208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.0 | 26.2 | 39.4 |

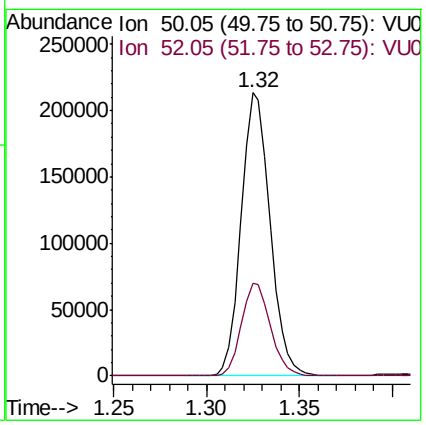


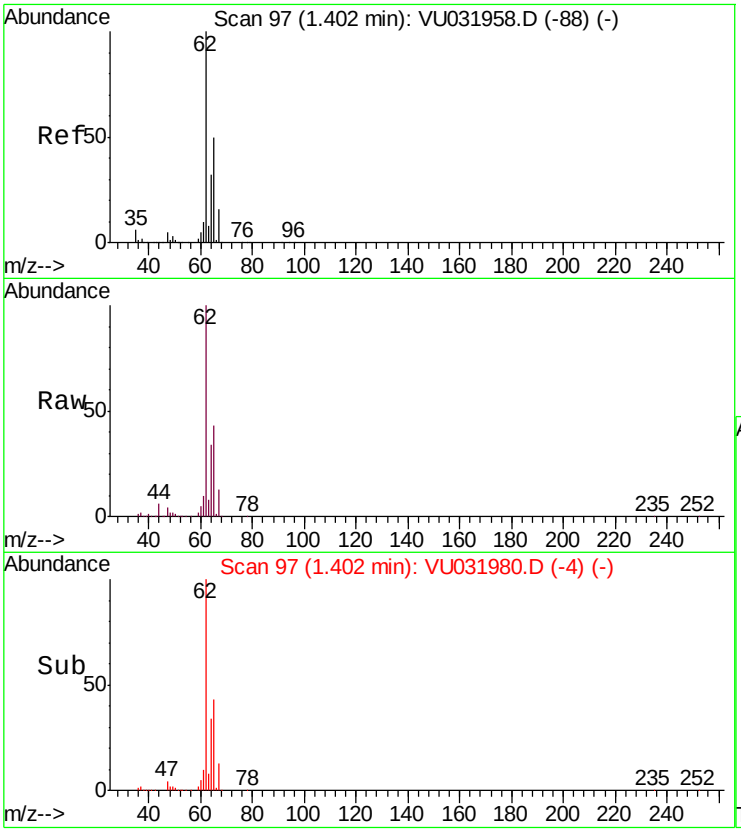




#3
Chloromethane
Concen: 3.507 ug/L
RT: 1.32 min Scan# 73
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 50 Resp: 231546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 22.5 | 41.7 |



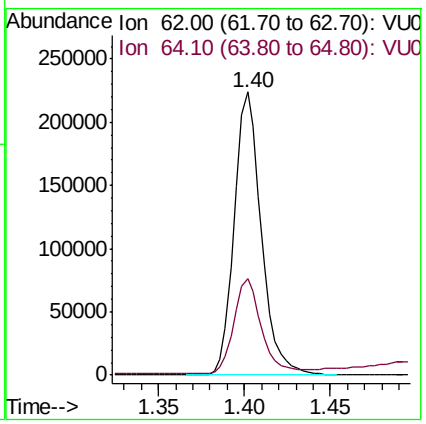


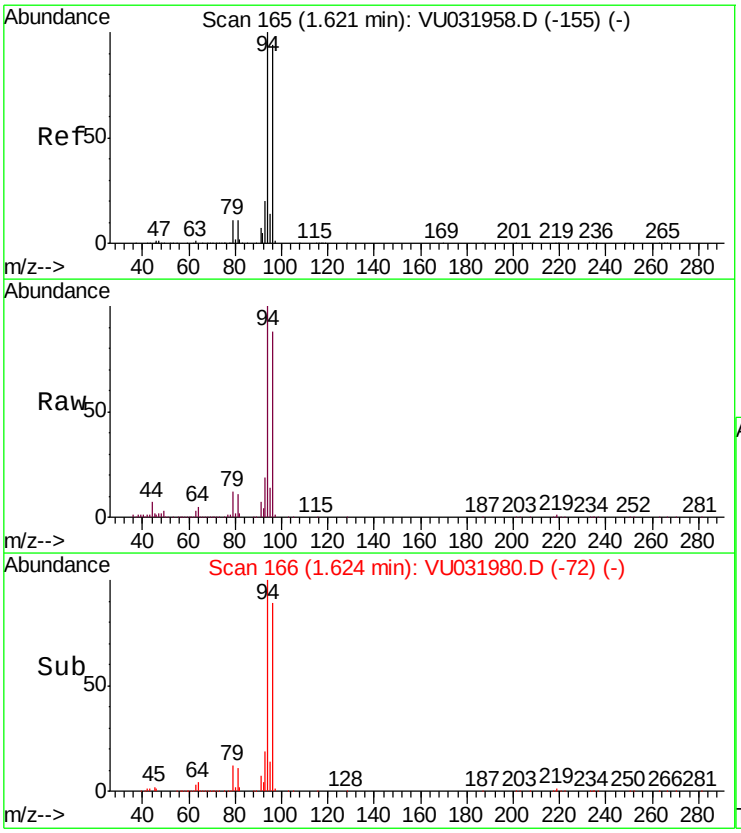

#5
Vinyl chloride
Concen: 4.239 ug/L
RT: 1.40 min Scan# 97
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 62 Resp: 244583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.0 | 22.5 | 41.9 |

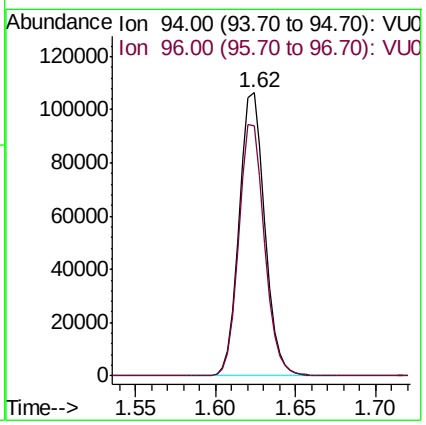


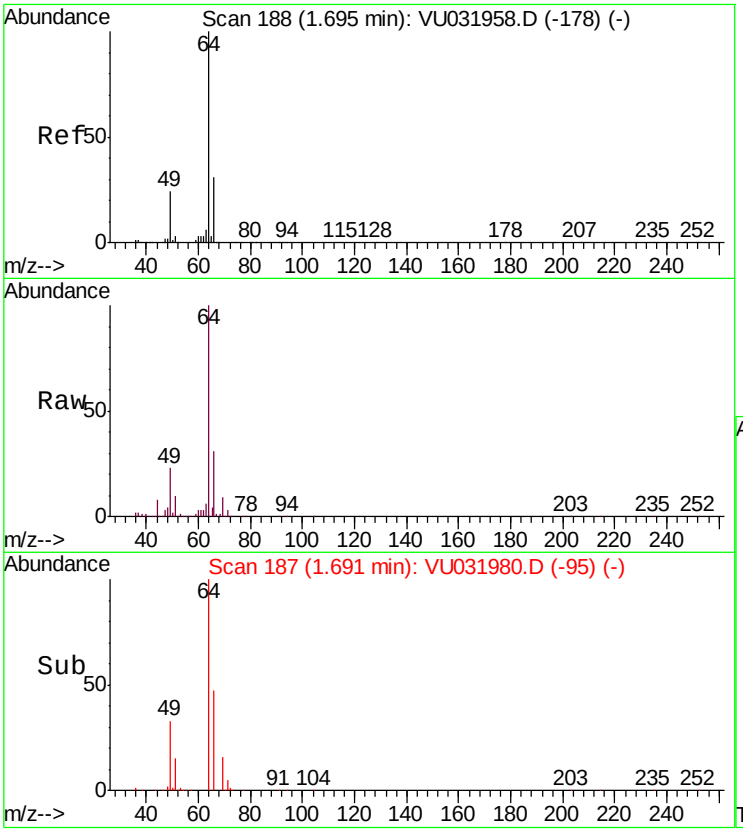




#6
Bromomethane
Concen: 4.298 ug/L
RT: 1.62 min Scan# 166
Delta R.T. 0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 94 Resp: 113847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.5 | 66.1 | 122.8 |



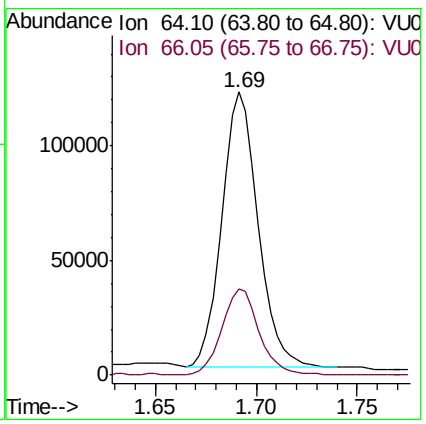


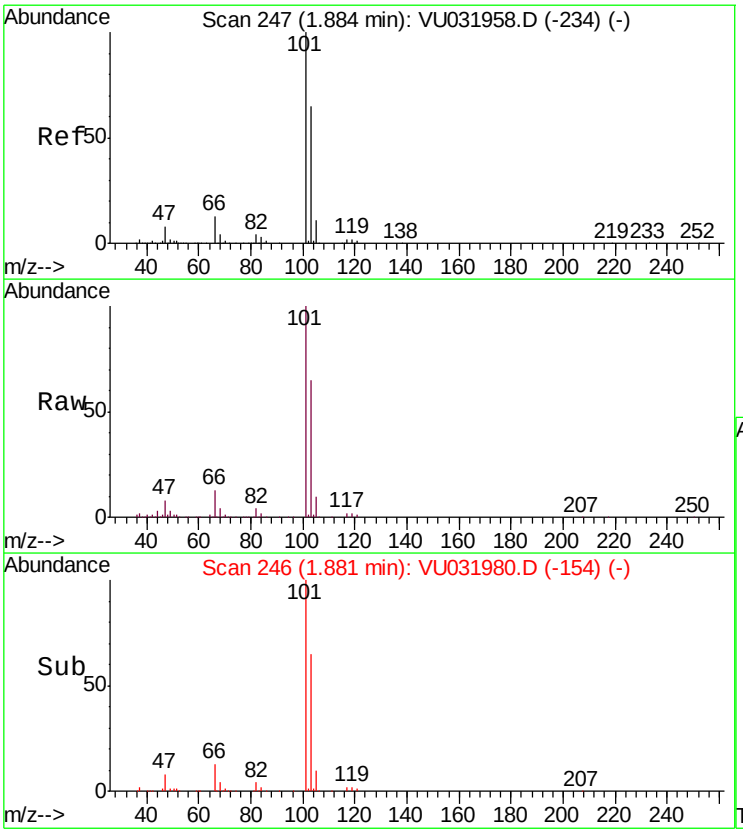

#8
Chloroethane
Concen: 4.750 ug/L
RT: 1.69 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 64 Resp: 150949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.6 | 21.9 | 40.7 |

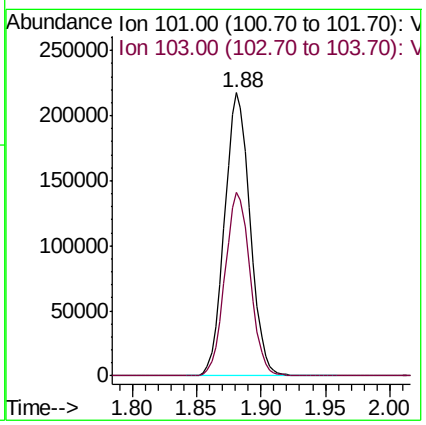


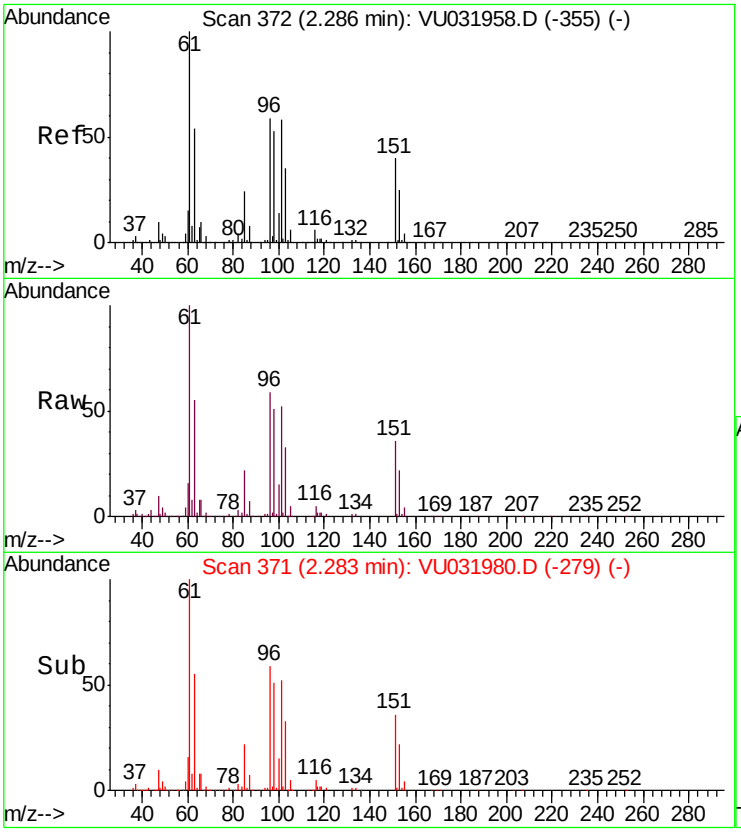




#9
Trichlorofluoromethane
Concen: 4.464 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:101 Resp: 297915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 52.1 | 78.1 |



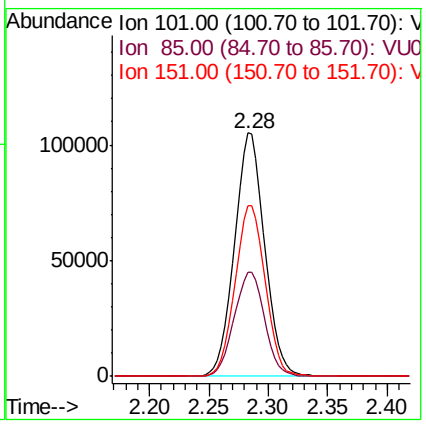


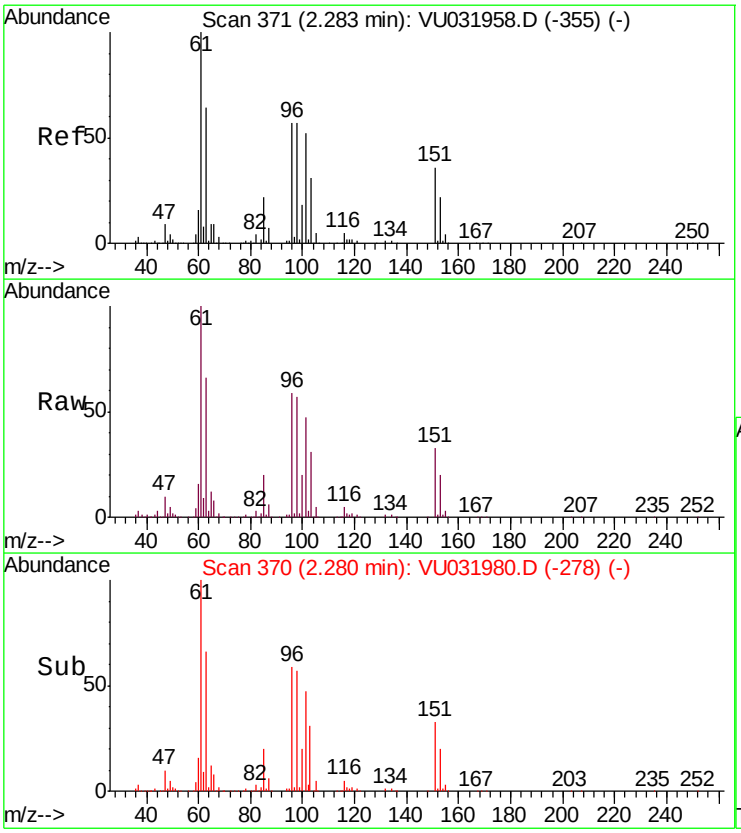

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 5.325 ug/L
RT: 2.28 min Scan# 371
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:101 Resp: 184936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 40.0 | 60.0 |
| 151 | 70.0 | 54.6 | 82.0 |

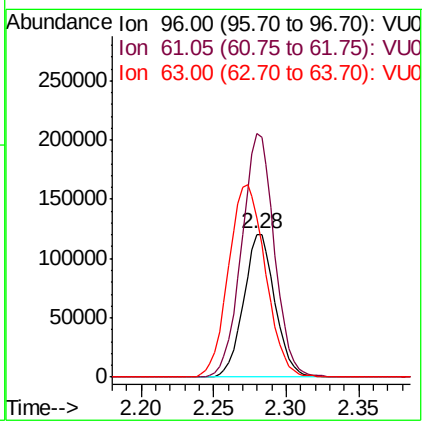


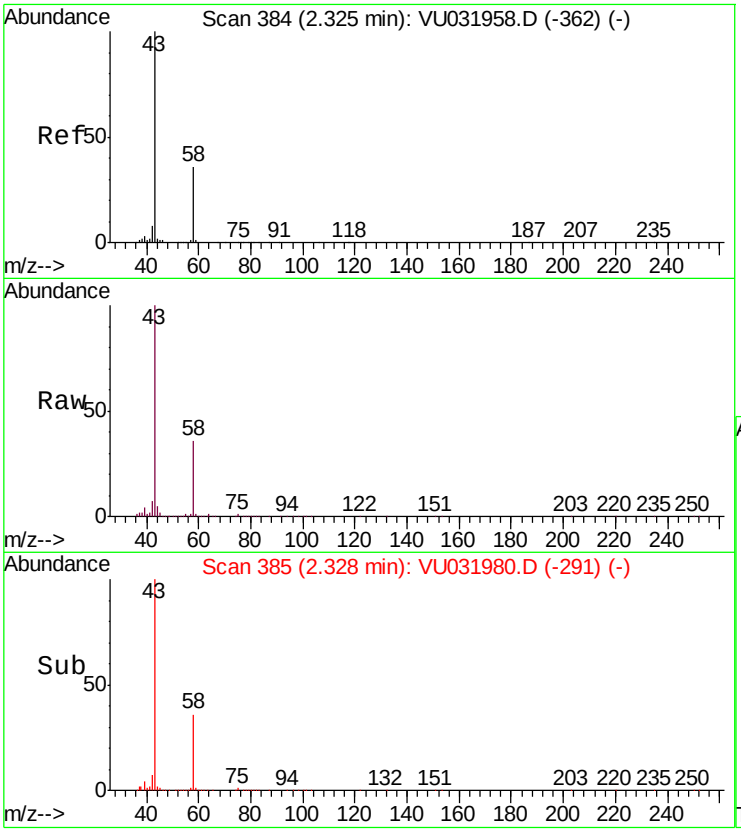




#12
1,1-Dichloroethene
Concen: 5.536 ug/L
RT: 2.28 min Scan# 370
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 96 Resp: 181066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.4 | 149.0 | 276.6 |
| 63 | 111.7 | 99.8 | 185.4 |



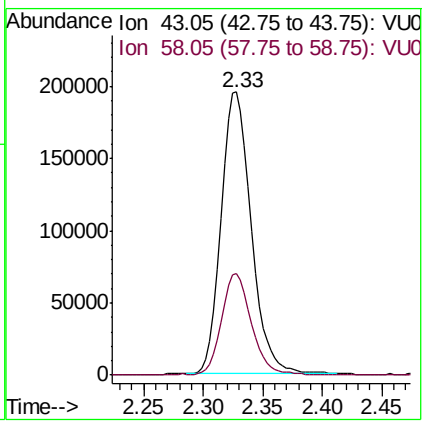


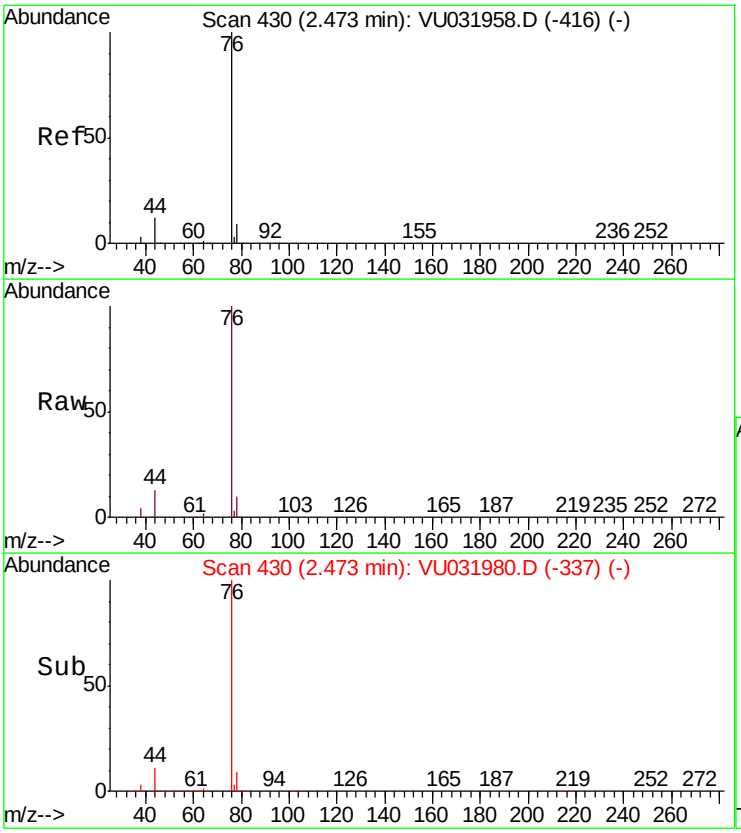

#13
Acetone
Concen: 39.052 ug/L
RT: 2.33 min Scan# 385
Delta R.T. 0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion: 43 Resp: 341478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.2 | 0.0 | 53.6 |

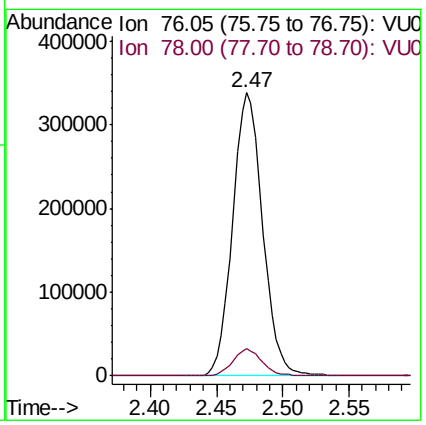


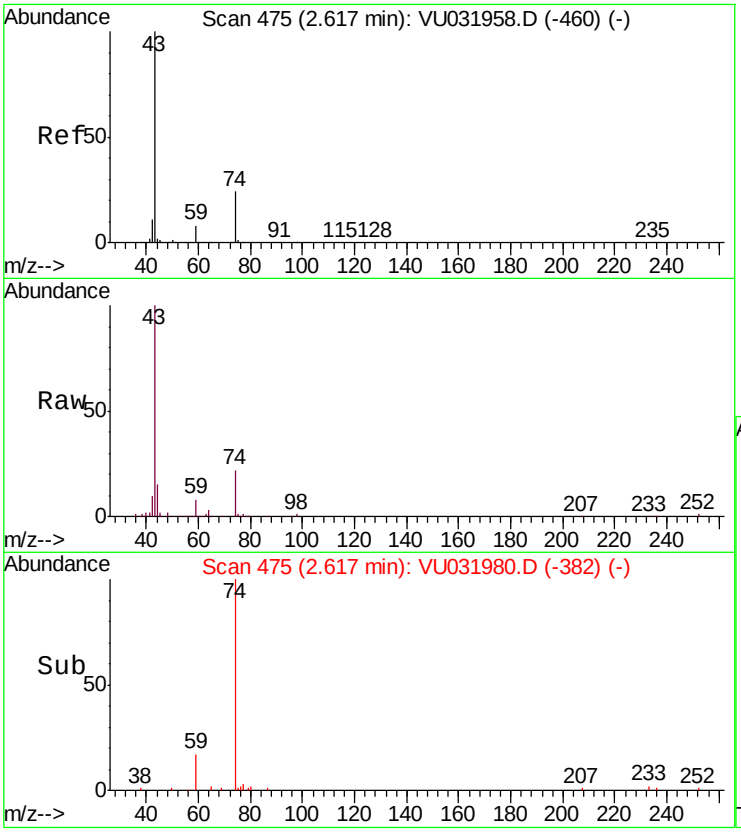




#14
Carbon disulfide
Concen: 4.628 ug/L
RT: 2.47 min Scan# 430
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 76 Resp: 532813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 7.5 | 11.3 |



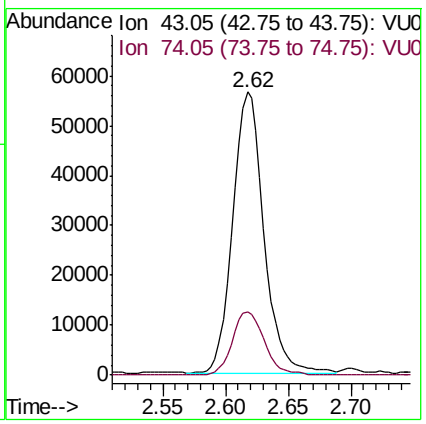


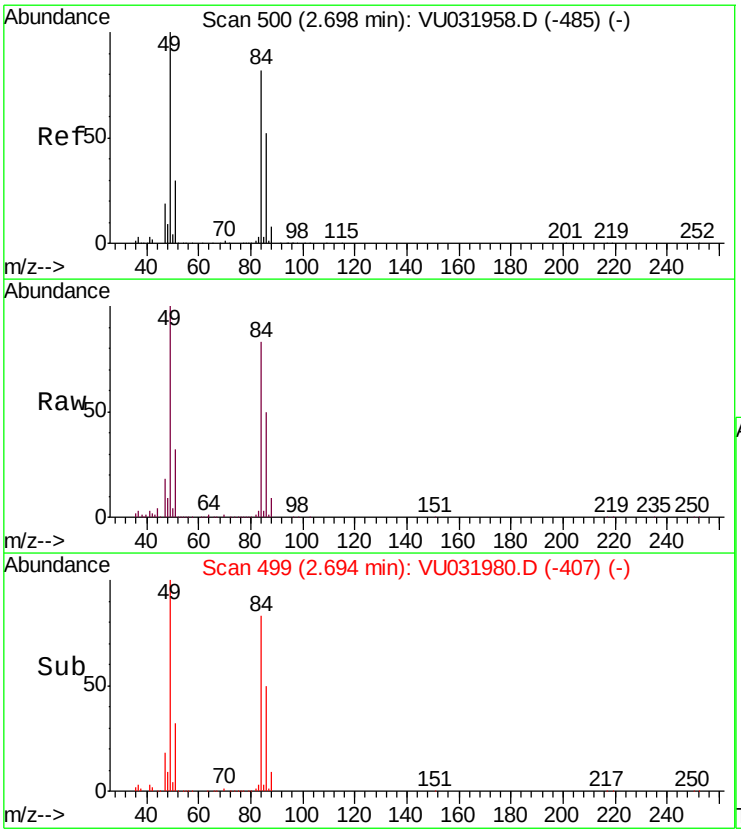

#15
Methyl Acetate
Concen: 4.290 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 43 Resp: 96771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.4 | 14.7 | 22.1# |

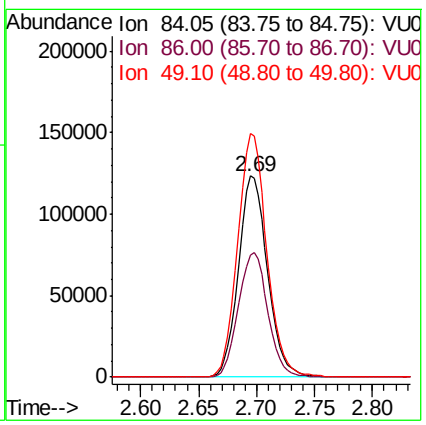


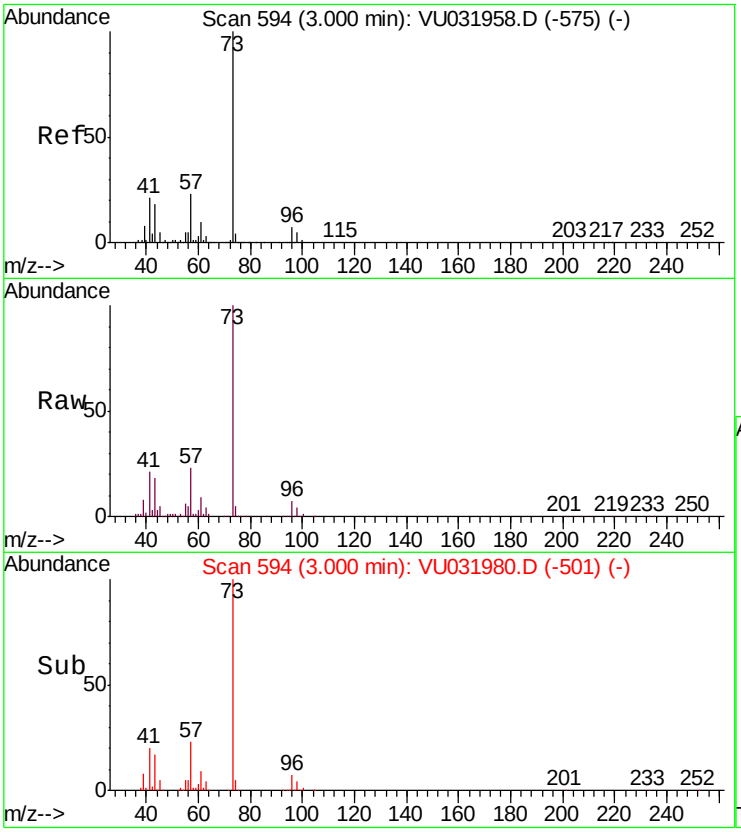




#16
Methylene chloride
Concen: 4.745 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 84 Resp: 215325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 60.5 | 45.6 | 84.8 |
| 49 | 120.9 | 106.7 | 198.1 |



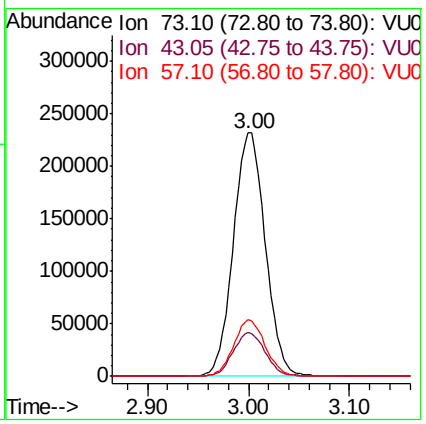


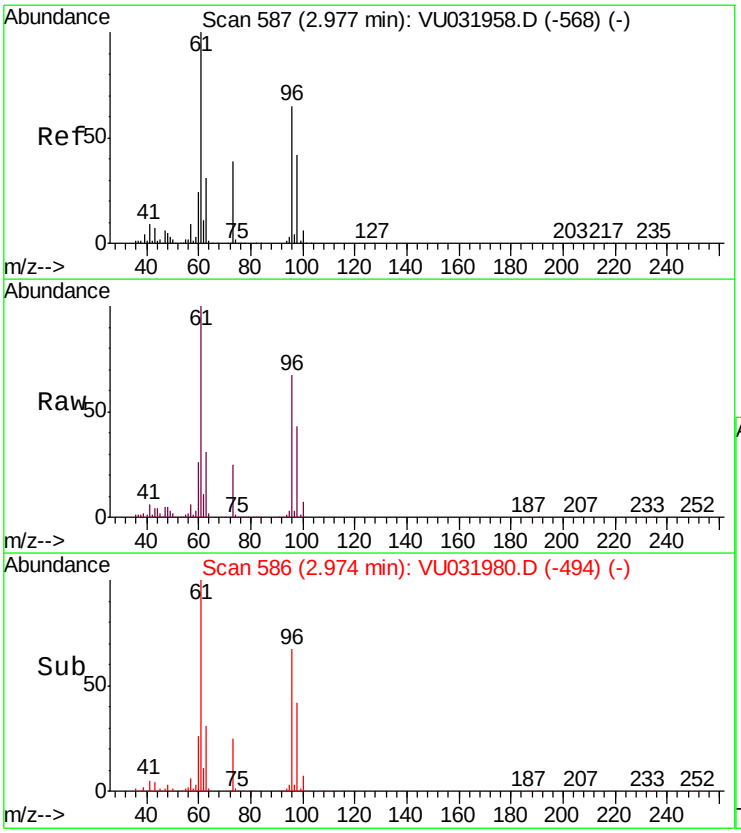

#17
Methyl tert-butyl Ether
Concen: 5.230 ug/L
RT: 3.00 min Scan# 594
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion: 73 Resp: 509551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 17.9 | 20.5 | 30.7# |
| 57 | 23.0 | 19.9 | 29.9 |

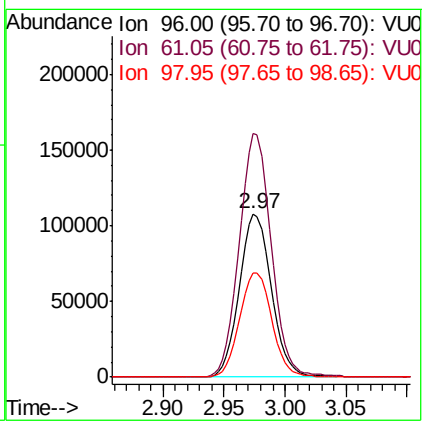


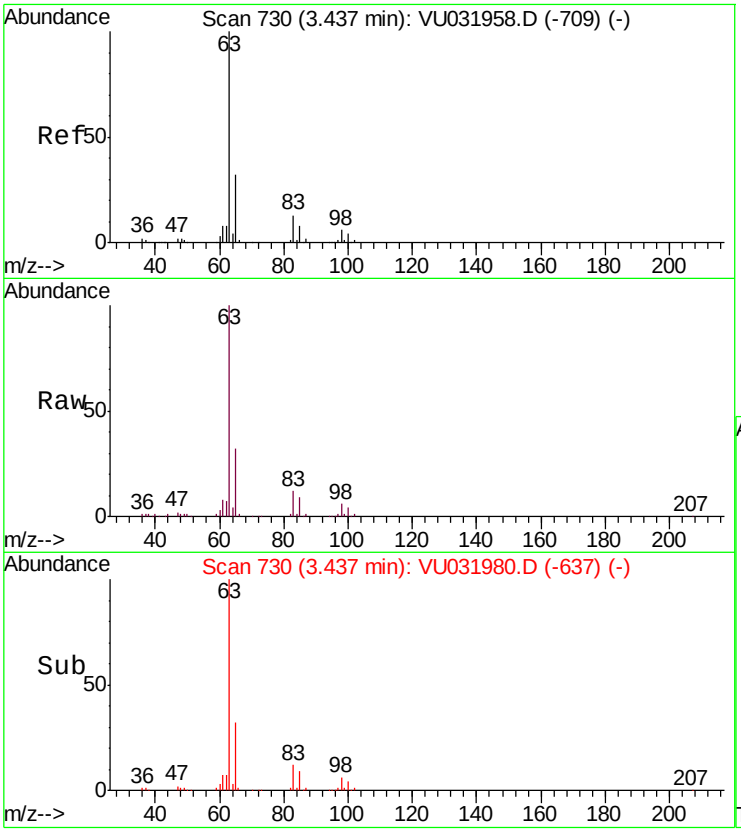




#18
trans-1,2-Dichloroethene
Concen: 5.537 ug/L
RT: 2.97 min Scan# 586
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 96 Resp: 195190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.0 | 130.9 | 243.1 |
| 98 | 63.4 | 46.2 | 85.8 |



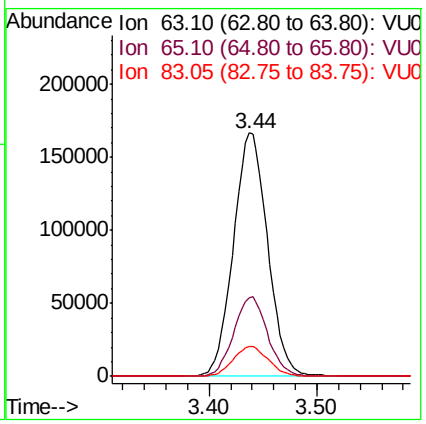


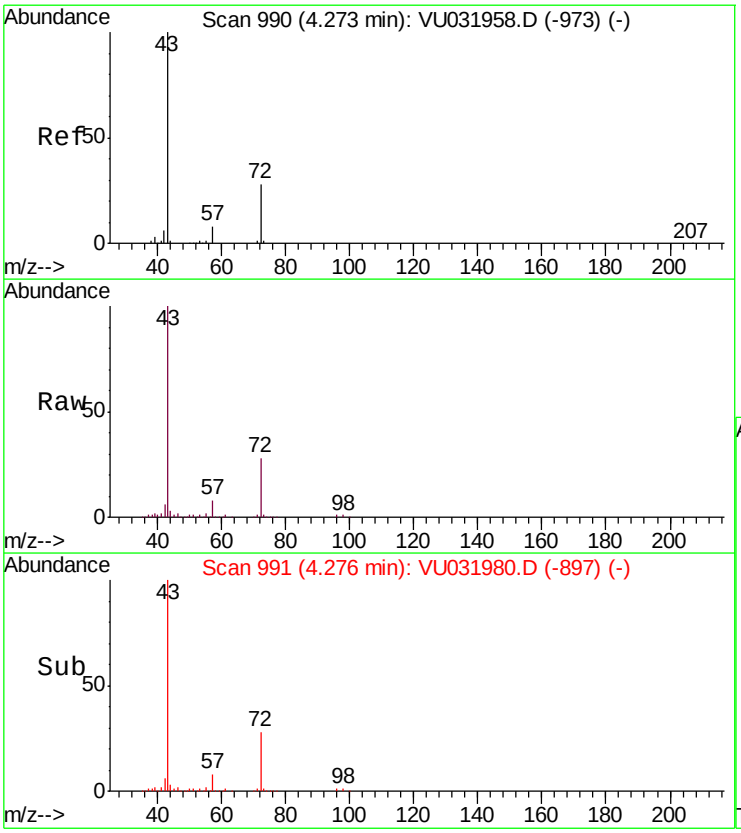

#19
1,1-Dichloroethane
Concen: 4.242 ug/L
RT: 3.44 min Scan# 730
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 63 Resp: 367786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.3 | 21.8 | 40.4 |
| 83 | 12.0 | 7.9 | 14.7 |

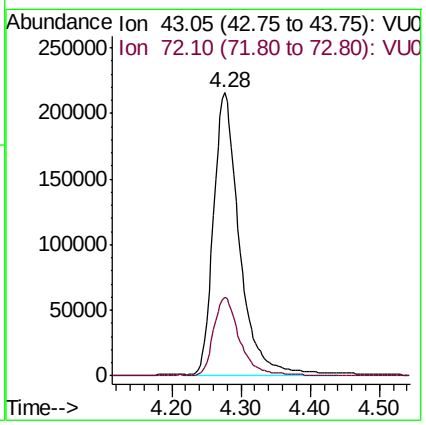


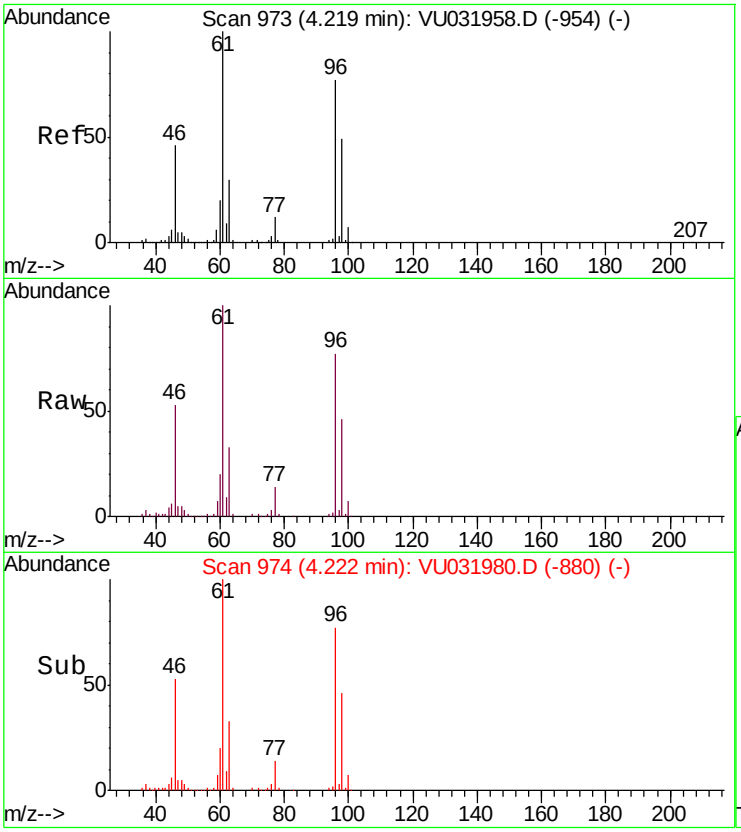




#21
2-Butanone
Concen: 38.172 ug/L
RT: 4.28 min Scan# 991
Delta R.T. 0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 43 Resp: 557776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.8 | 10.4 | 31.1 |



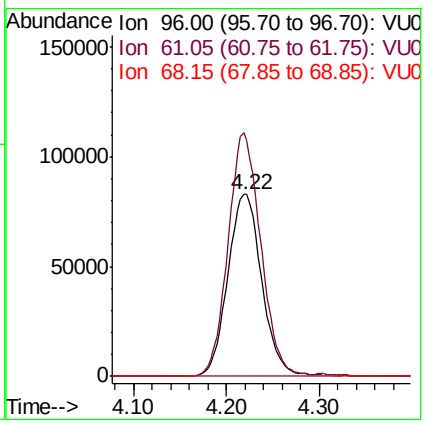


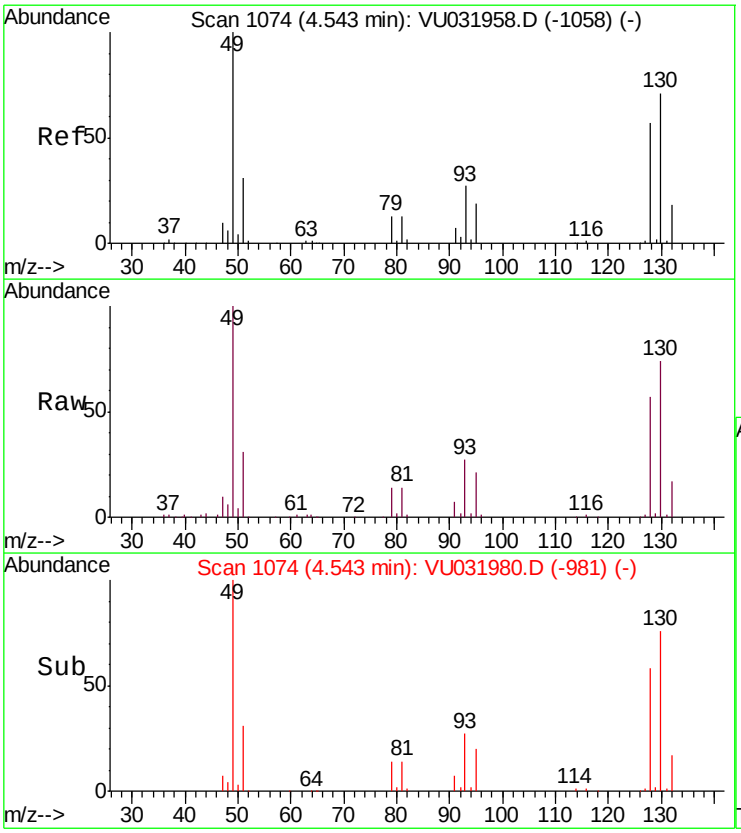

#22
cis-1,2-Dichloroethene
Concen: 4.965 ug/L
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 96 Resp: 210223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.9 | 113.3 | 210.5 |
| 68 | 0.0 | 0.0 | 0.0 |

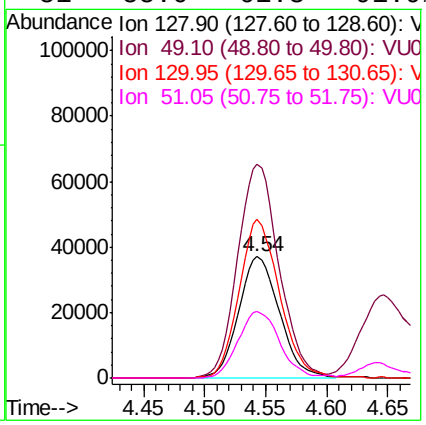


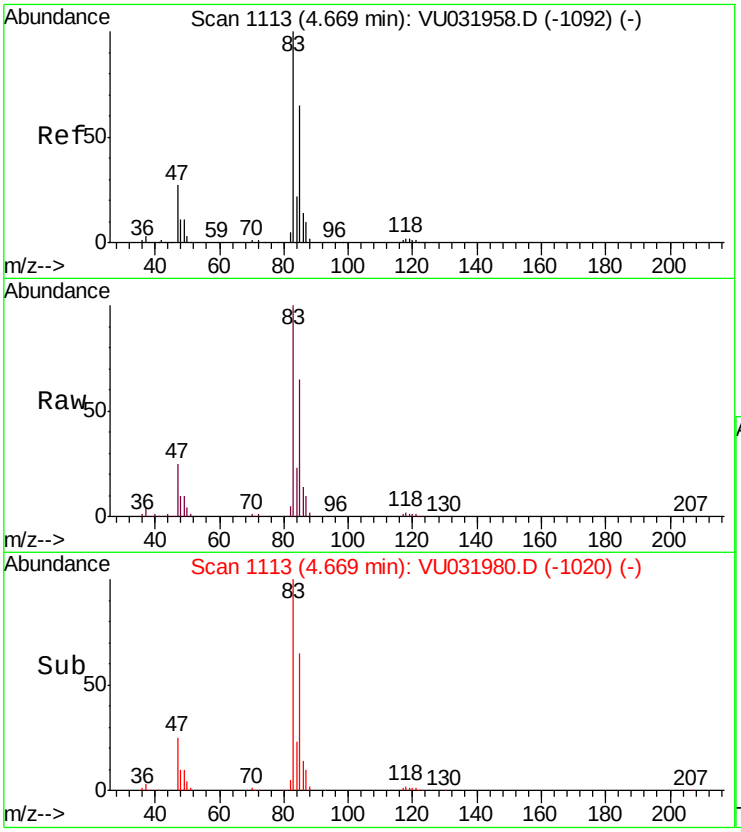




#23
Bromochloromethane
Concen: 5.041 ug/L
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:128 Resp: 85643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 176.3 | 168.8 | 313.4 |
| 130 | 130.6 | 93.0 | 172.8 |
| 51 | 55.0 | 61.3 | 91.9# |



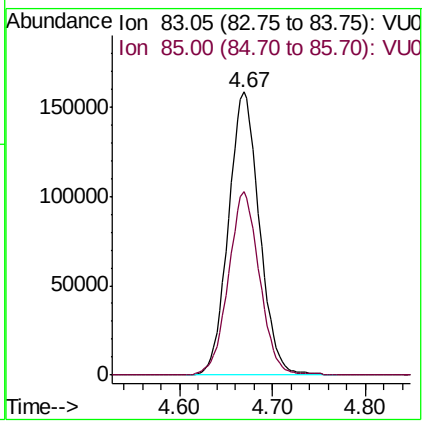


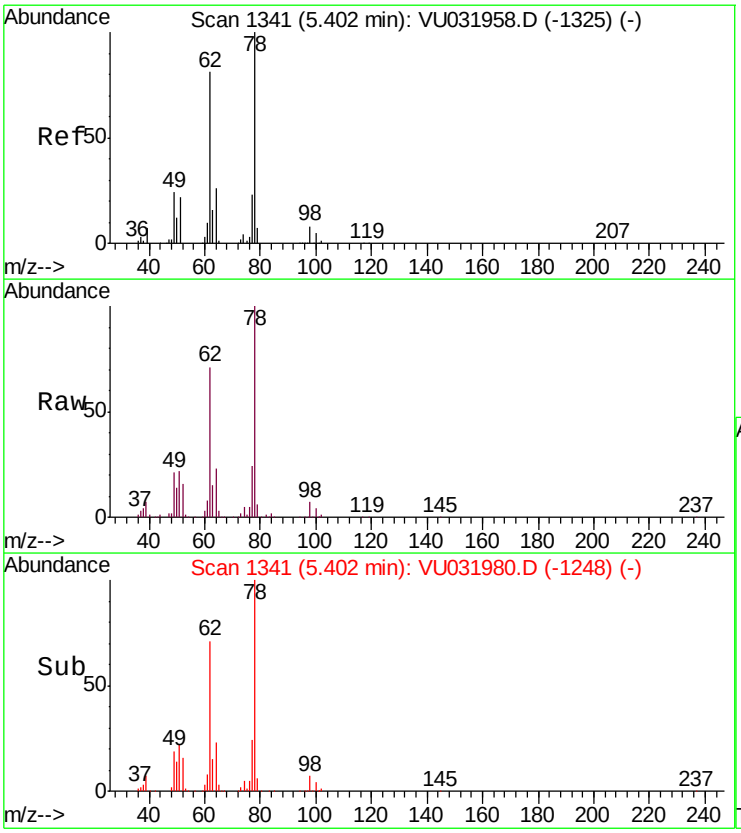

#25
Chloroform
Concen: 4.297 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 83 Resp: 366641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 44.4 | 82.5 |

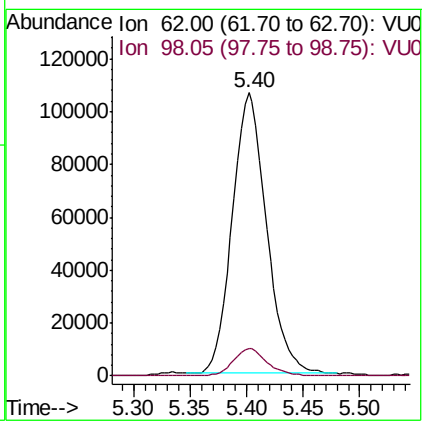


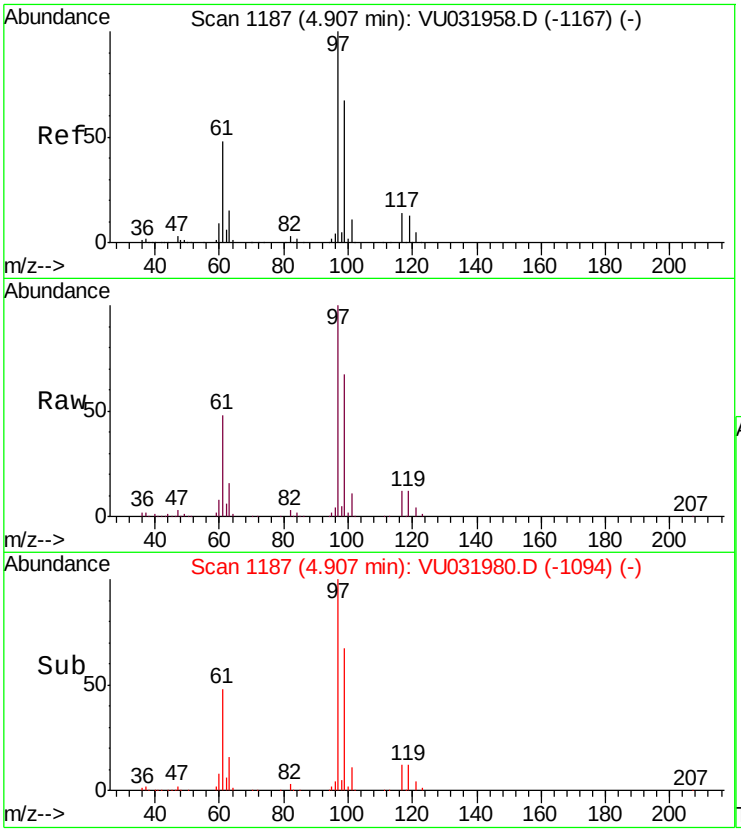




#27
1,2-Dichloroethane
Concen: 3.974 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 62 Resp: 223801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 5.4 | 8.2# |



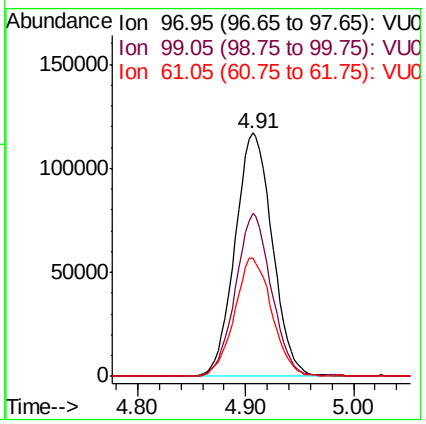


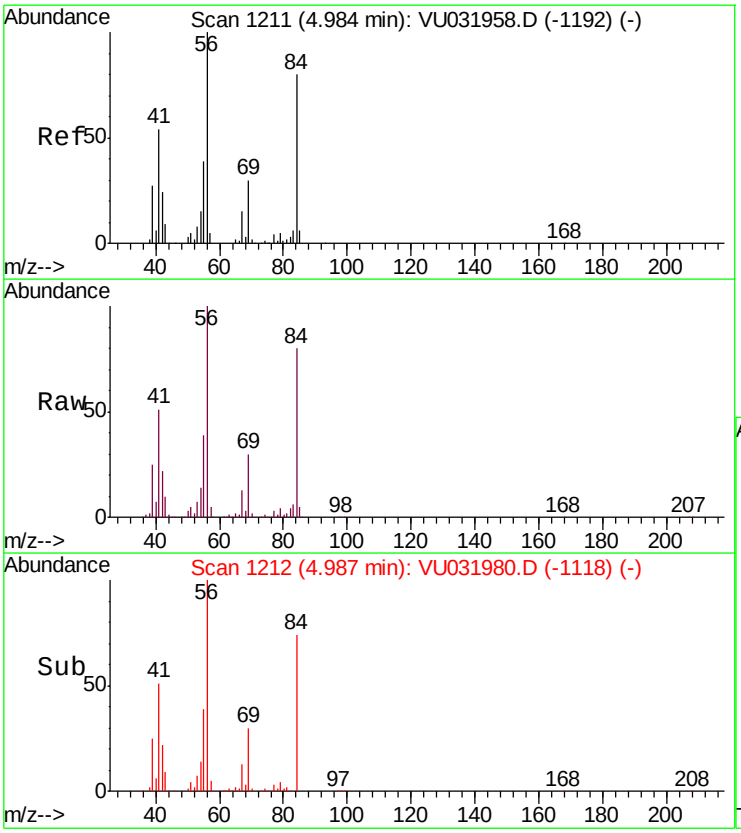

#29
1,1,1-Trichloroethane
Concen: 4.315 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 97 Resp: 282053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 50.6 | 75.8 |
| 61 | 48.6 | 42.2 | 63.2 |

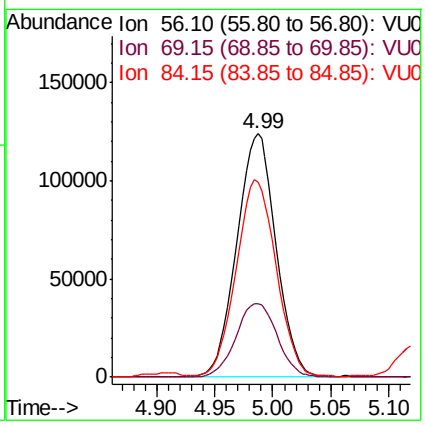


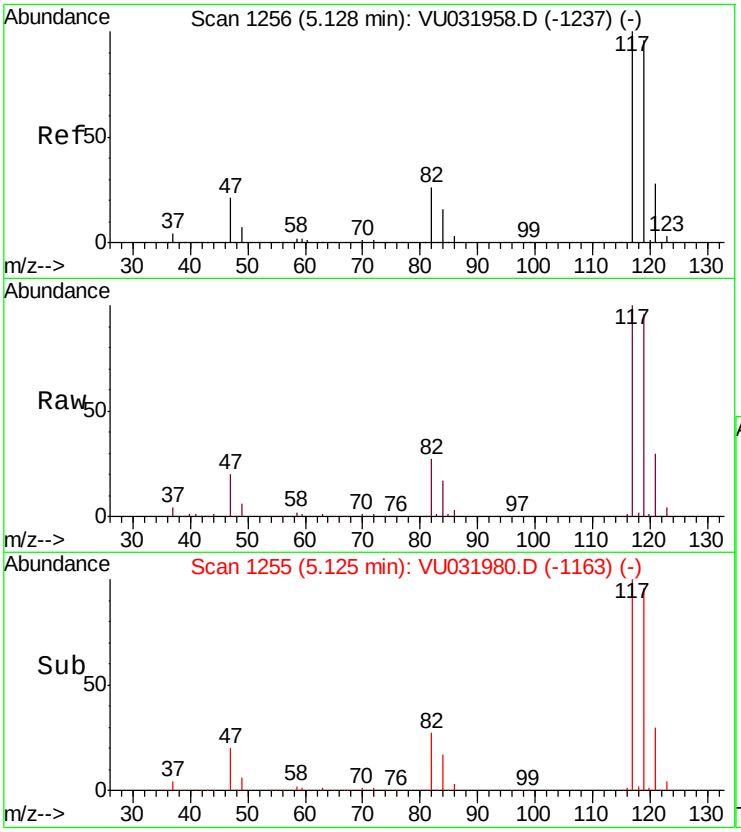




#30
Cyclohexane
Concen: 4.080 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 56 Resp: 292069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.8 | 21.8 | 32.8 |
| 84 | 82.4 | 56.8 | 85.2 |



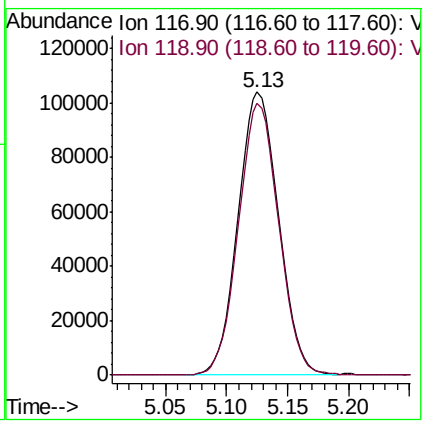


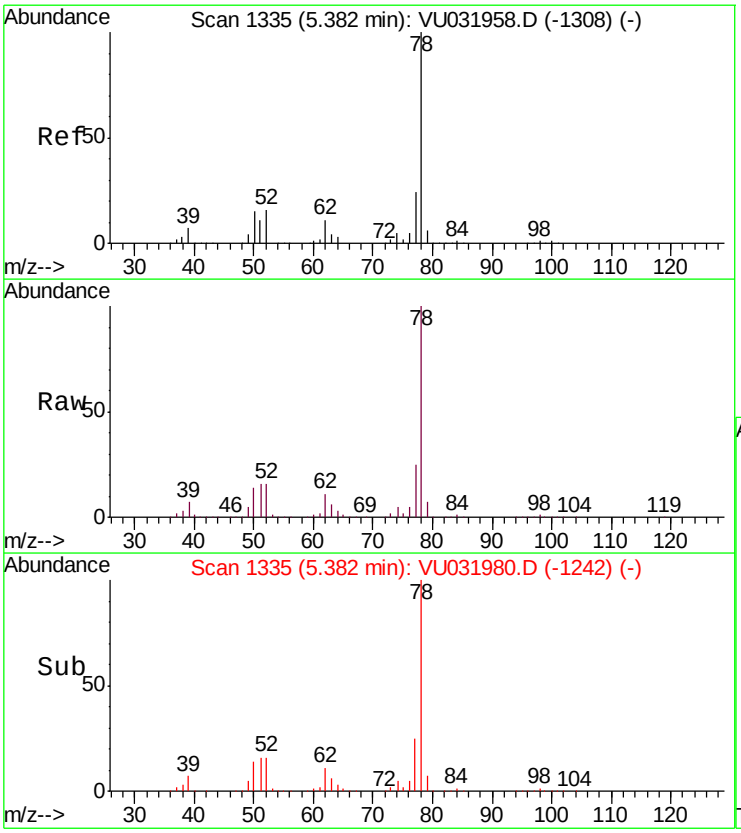

#31
Carbon tetrachloride
Concen: 4.298 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:117 Resp: 239227

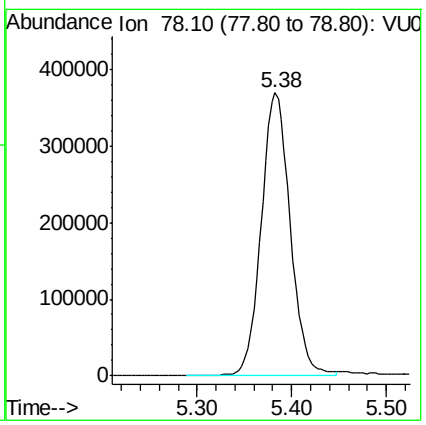
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.4 | 76.4 | 114.6 |

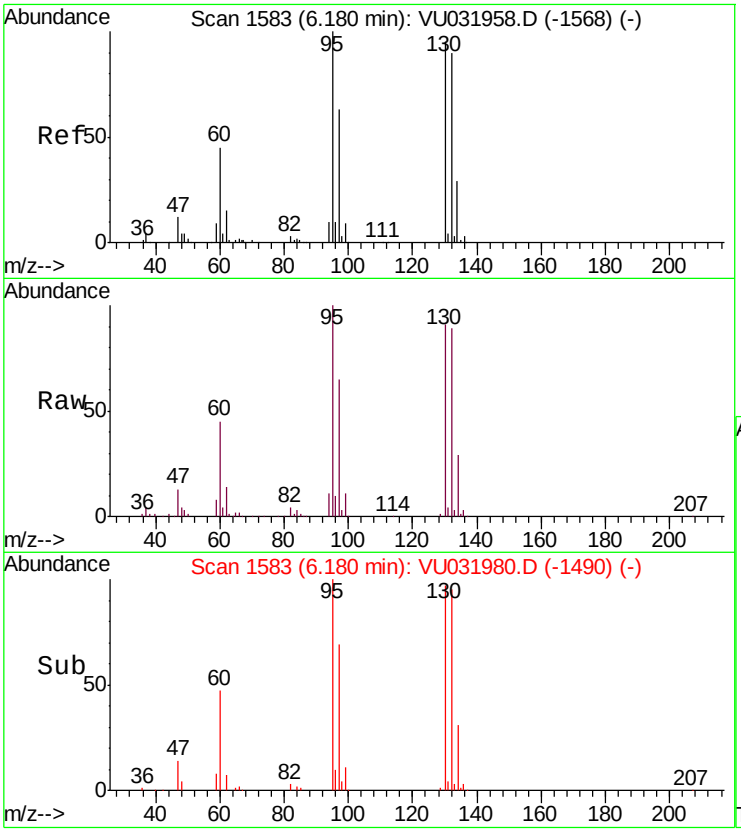



#33
Benzene
Concen: 4.735 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 78 Resp: 787370



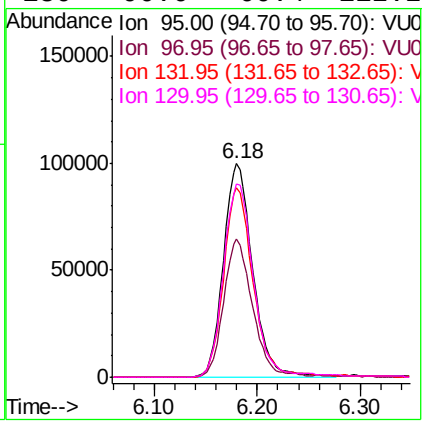


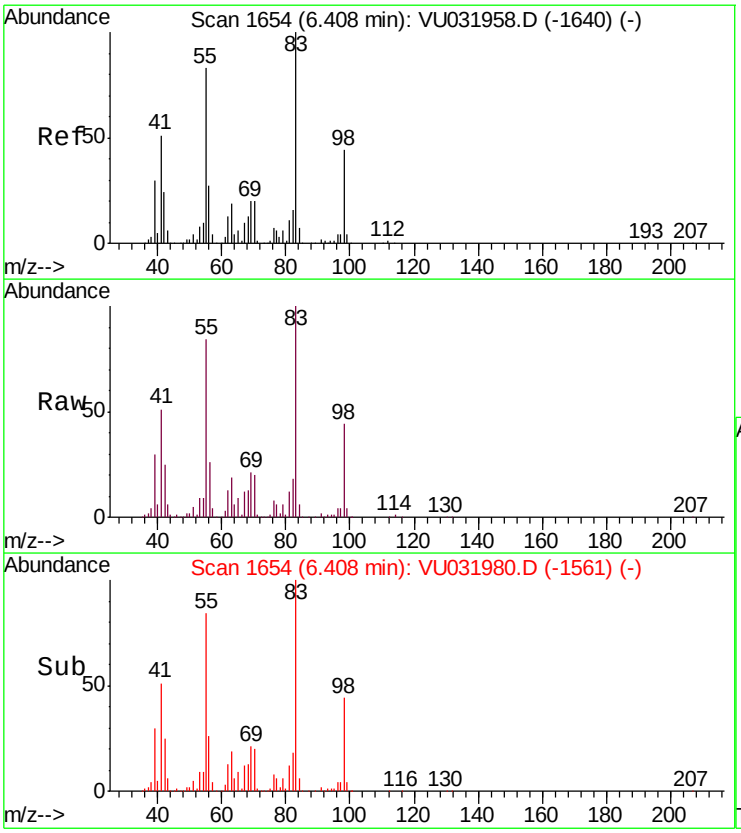

#34
Trichloroethene
Concen: 4.731 ug/L
RT: 6.18 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion: 95 Resp: 198346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 64.6 | 45.8 | 85.2 |
| 132 | 88.9 | 56.0 | 104.0 |
| 130 | 90.6 | 60.4 | 112.2 |

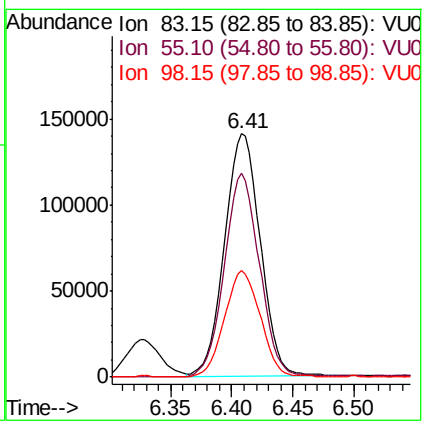


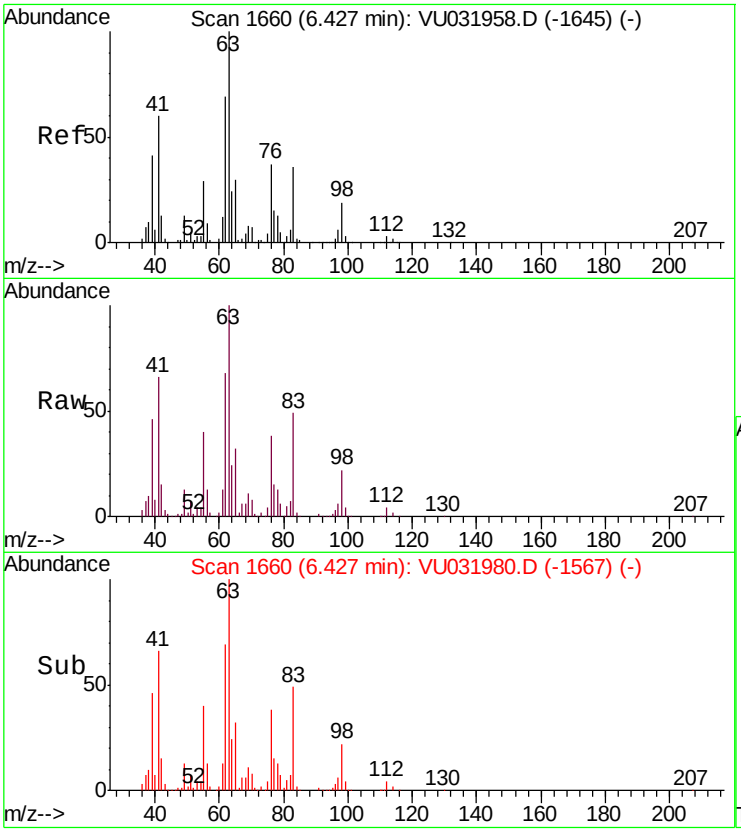




#35
Methylcyclohexane
Concen: 4.771 ug/L
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 83 Resp: 287344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 83.2 | 79.2 | 118.8 |
| 98 | 44.1 | 34.0 | 51.0 |



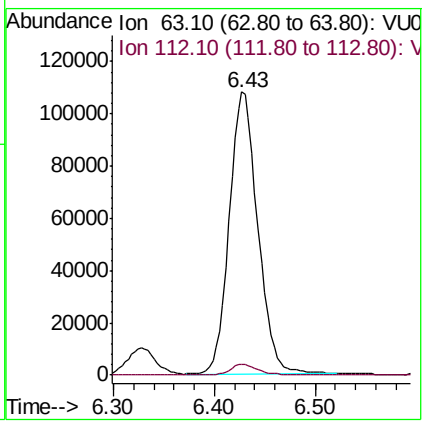


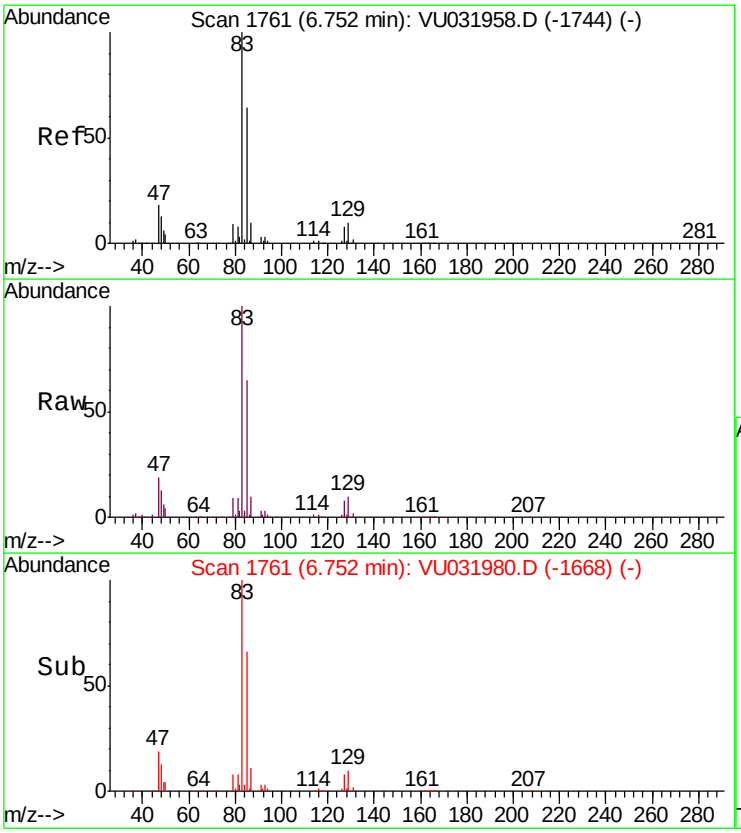

#37
1,2-Dichloropropane
Concen: 4.475 ug/L
RT: 6.43 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion: 63 Resp: 212969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 3.8 | 2.5 | 3.7# |

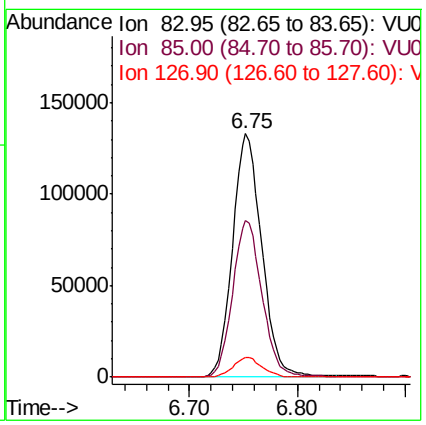


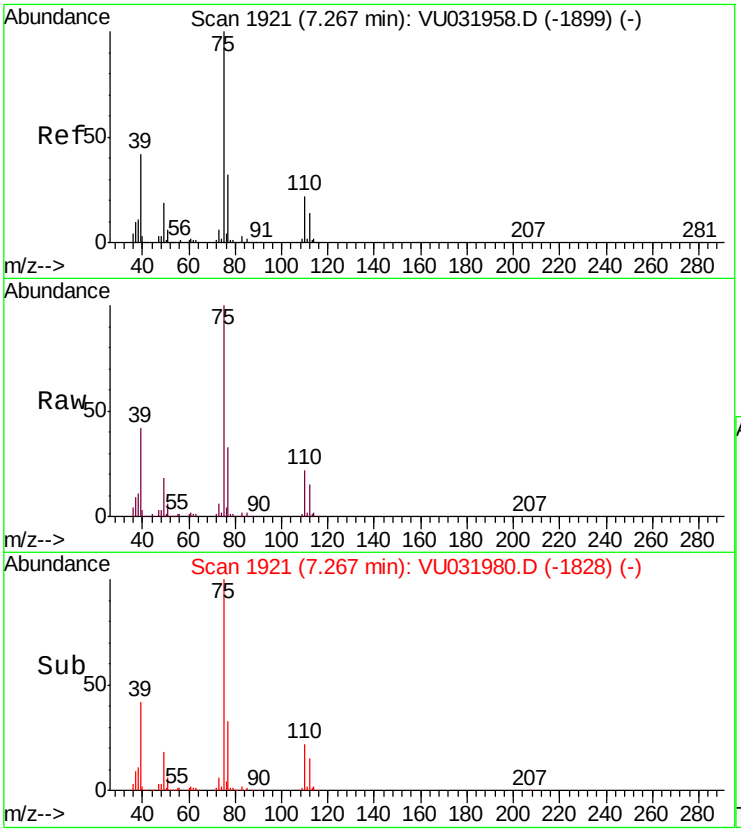




#38
Bromodichloromethane
Concen: 4.429 ug/L
RT: 6.75 min Scan# 1761
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 83 Resp: 251065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 41.3 | 76.7 |
| 127 | 8.1 | 5.8 | 8.6 |



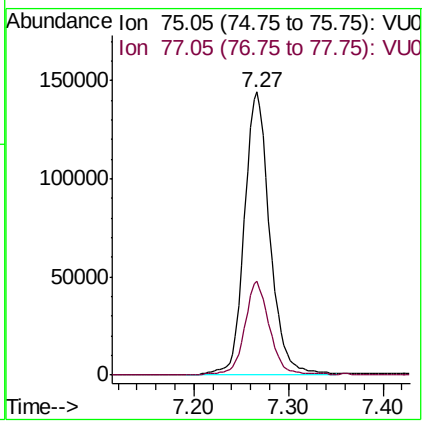


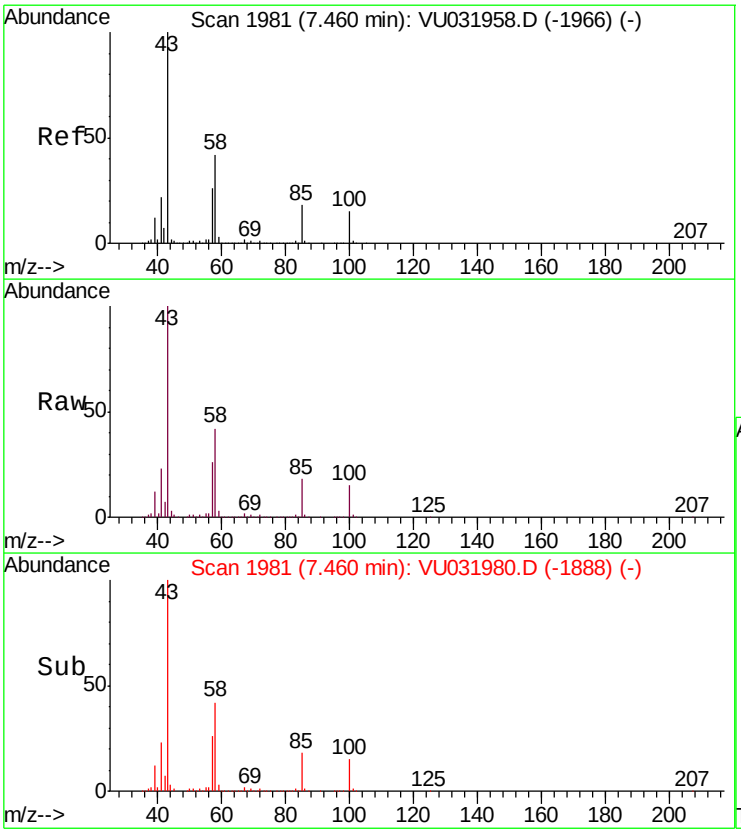

#39
cis-1,3-Dichloropropene
Concen: 4.553 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion: 75 Resp: 271509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.0 | 22.3 | 41.5 |

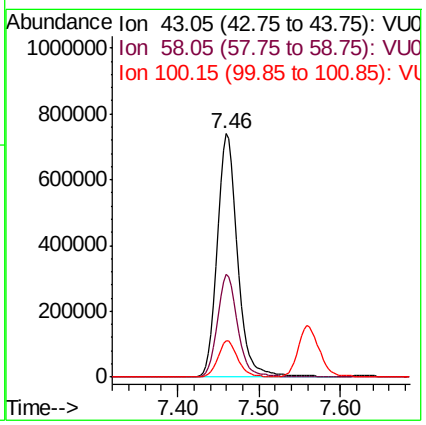


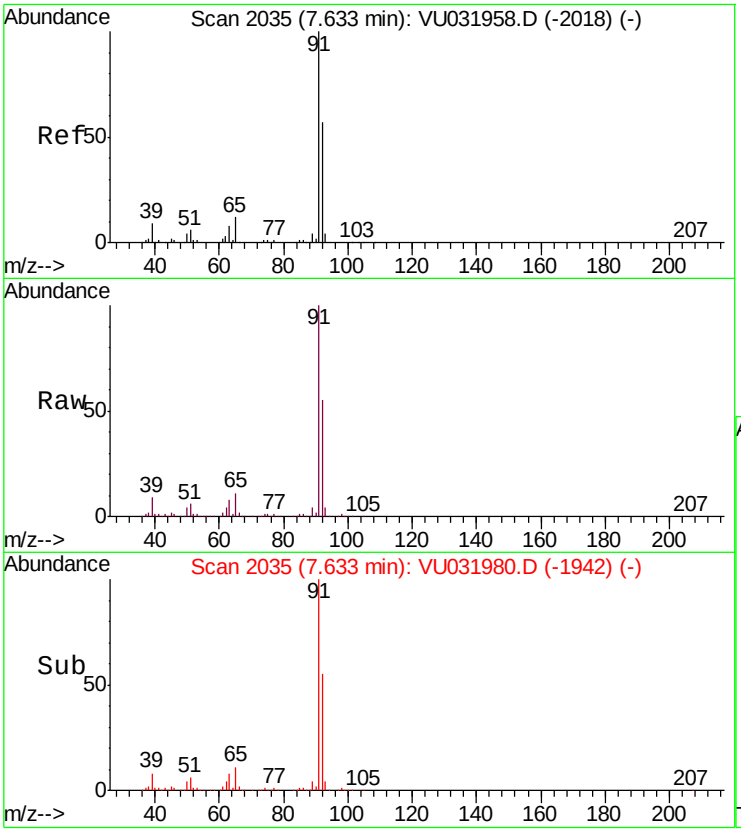




#40
4-Methyl-2-pentanone
Concen: 41.056 ug/L
RT: 7.46 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 43 Resp: 1314964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.7 | 28.0 | 42.0 |
| 100 | 14.6 | 8.2 | 12.4# |



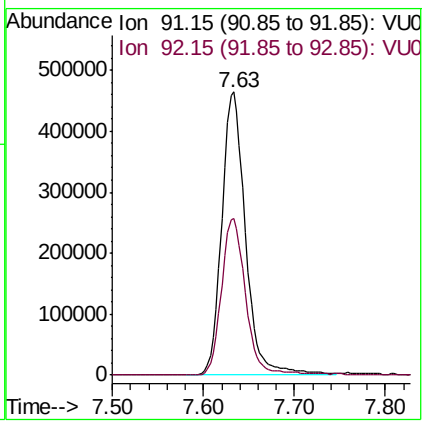


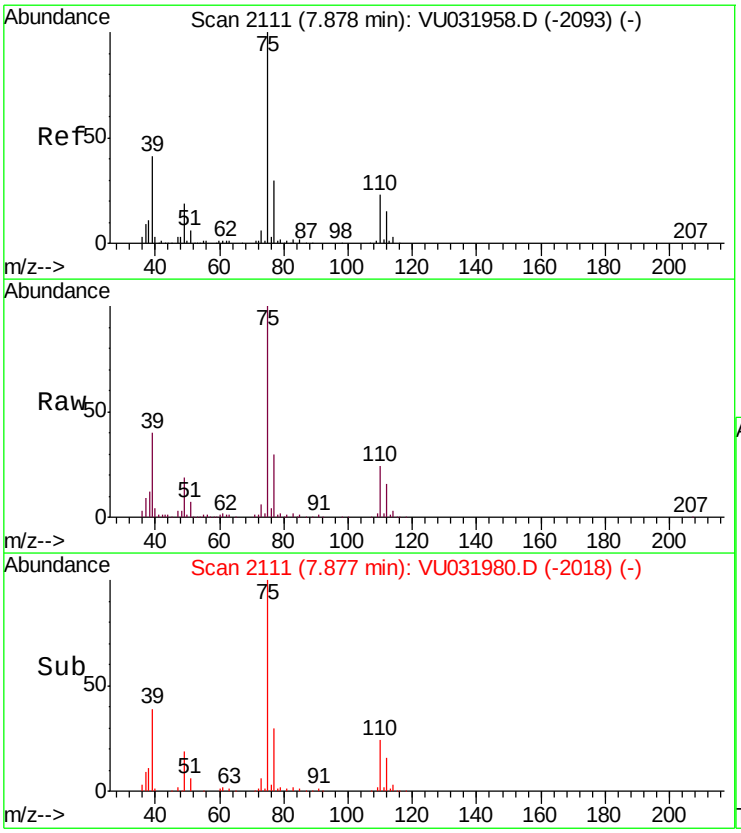

#42
Toluene
Concen: 5.150 ug/L
RT: 7.63 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 91 Resp: 845656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.2 | 38.1 | 70.9 |

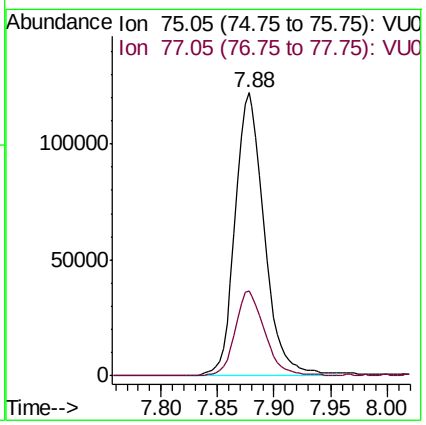


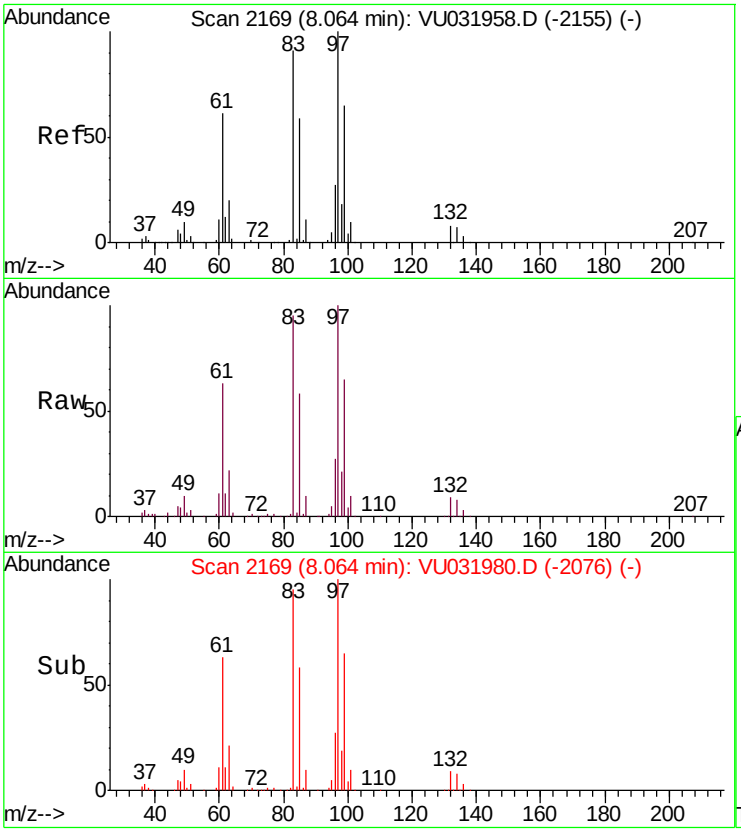




#44
trans-1,3-Dichloropropene
Concen: 4.663 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 75 Resp: 220236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 22.3 | 41.3 |



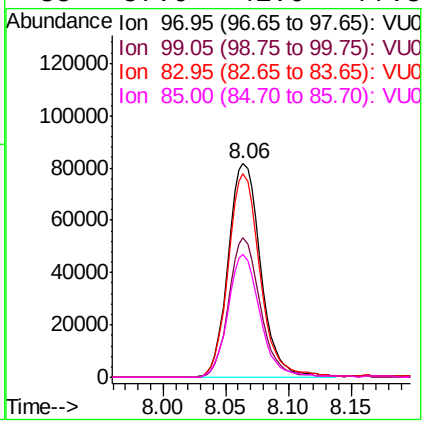


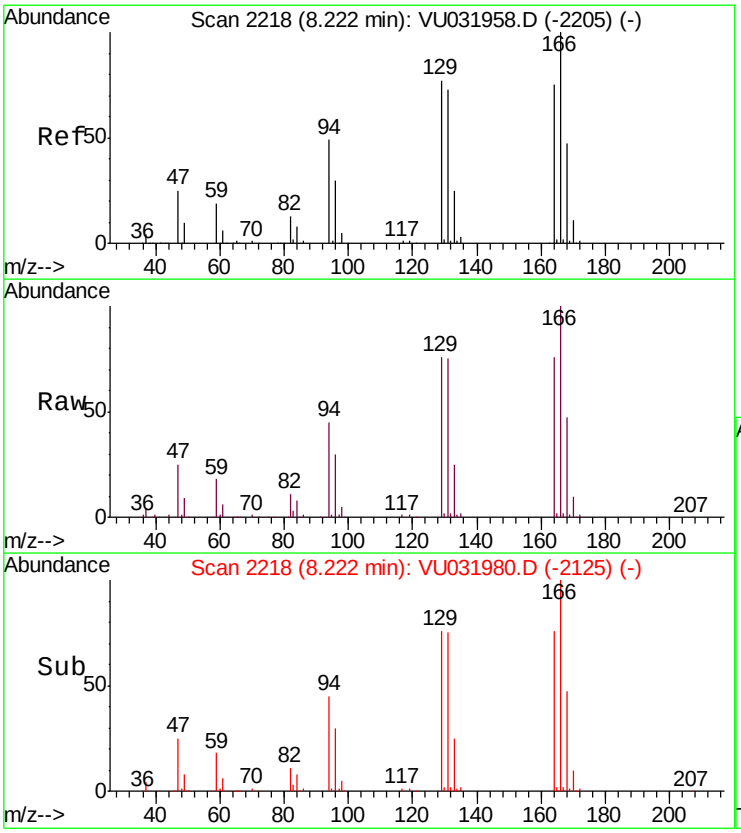

#45
1,1,2-Trichloroethane
Concen: 5.233 ug/L
RT: 8.06 min Scan# 2169
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 97 Resp: 147552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.1 | 45.8 | 85.0 |
| 83 | 95.2 | 64.5 | 119.7 |
| 85 | 57.6 | 41.6 | 77.3 |

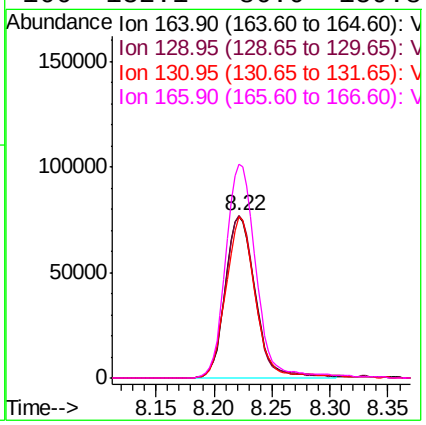


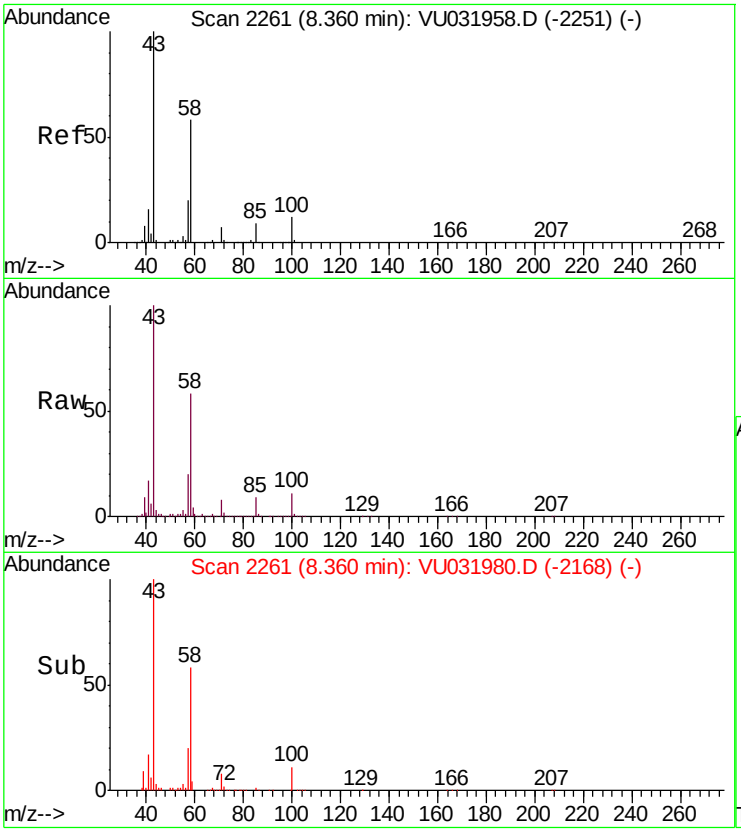




#47
Tetrachloroethene
Concen: 5.028 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:164 Resp: 137090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 100.6 | 70.3 | 130.5 |
| 131 | 99.4 | 65.4 | 121.4 |
| 166 | 132.1 | 86.0 | 159.8 |



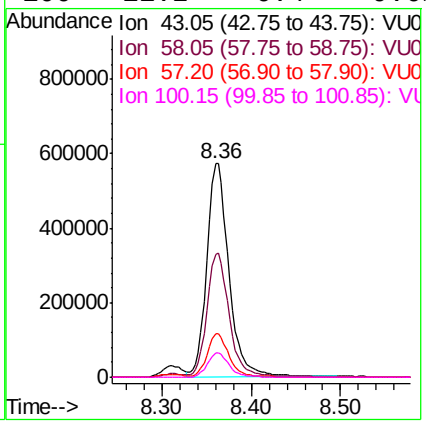


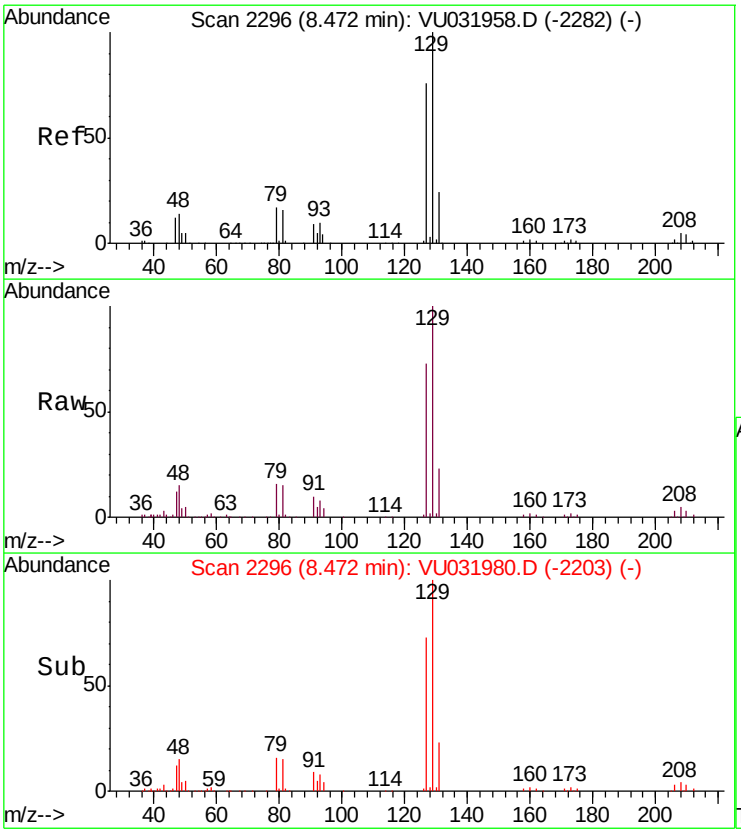

#48
2-Hexanone
Concen: 43.239 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion: 43 Resp: 984294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.9 | 40.2 | 60.2 |
| 57 | 19.9 | 13.8 | 20.6 |
| 100 | 11.2 | 6.4 | 9.6# |

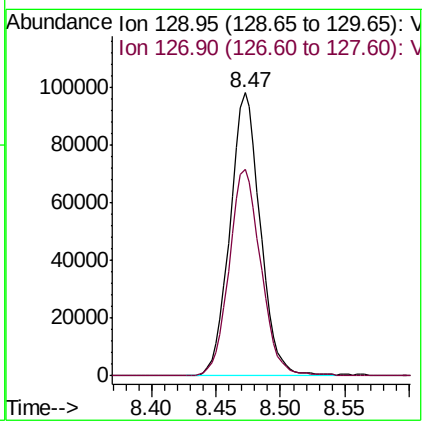


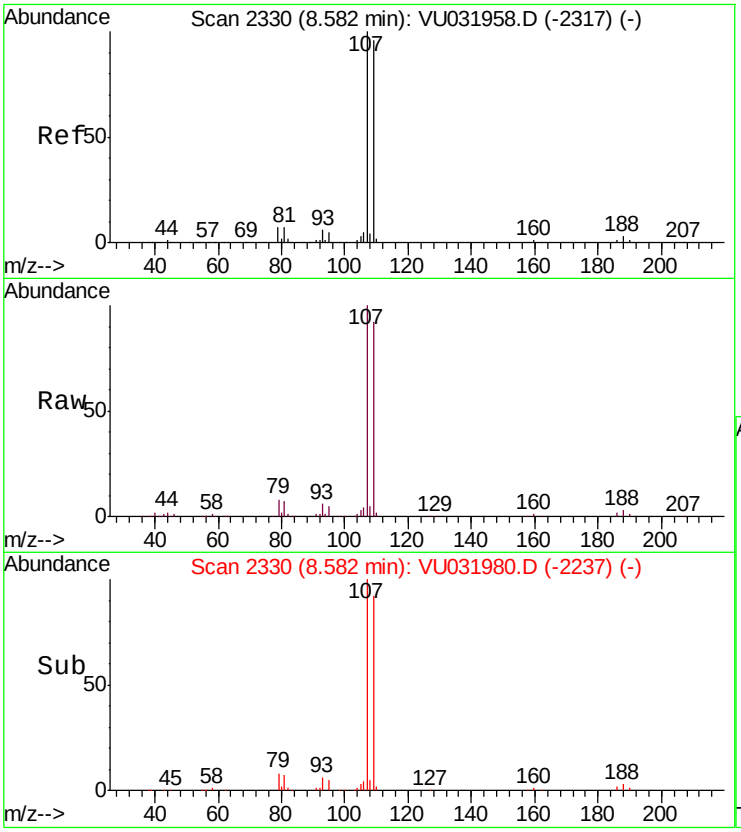




#49
Dibromochloromethane
Concen: 4.903 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:129 Resp: 160778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 73.2 | 54.7 | 101.7 |



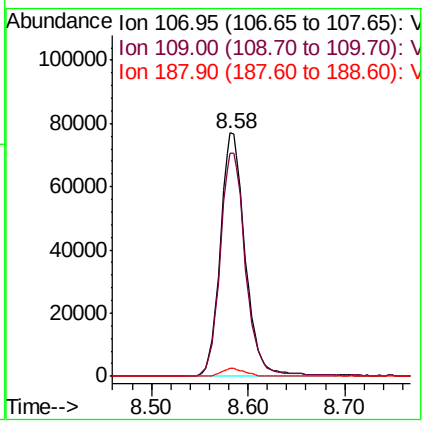


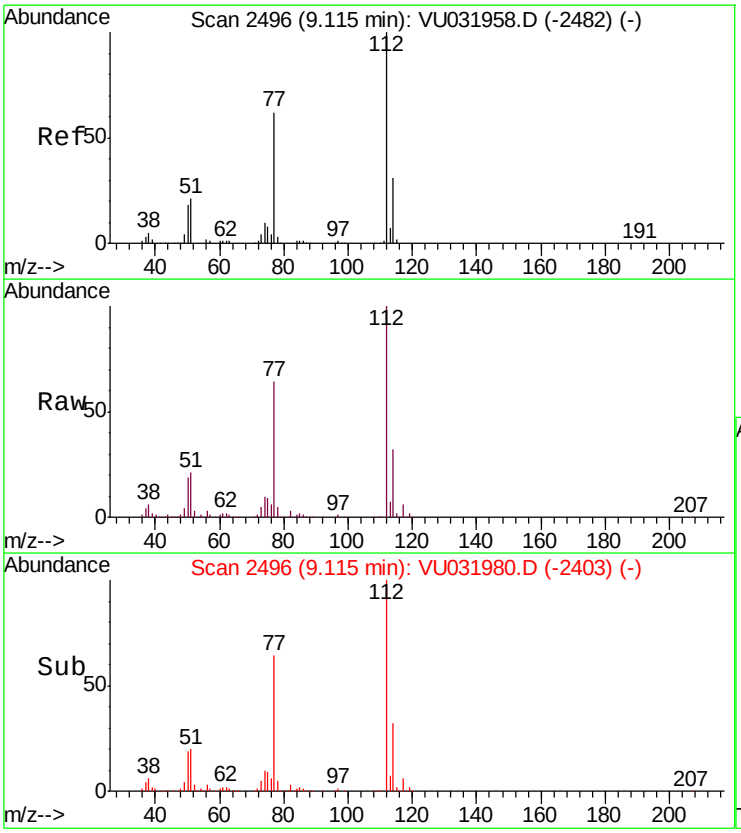

#50
1,2-Dibromoethane
Concen: 5.363 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:107 Resp: 137616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.7 | 62.6 | 116.3 |
| 188 | 3.4 | 2.1 | 3.1# |

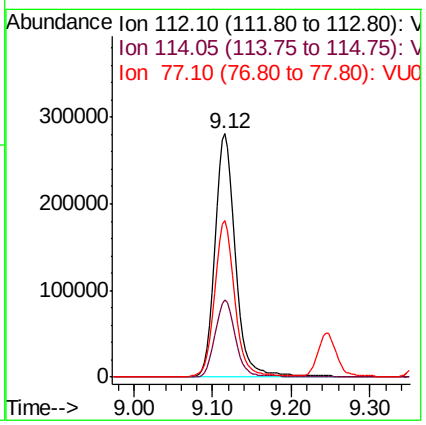


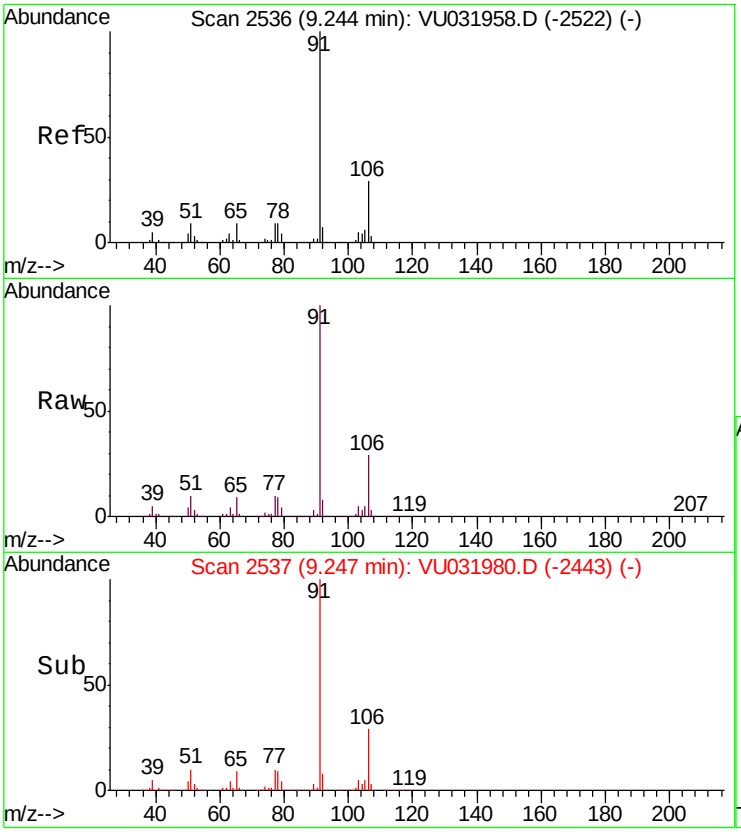




#51
Chlorobenzene
Concen: 5.165 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:112 Resp: 504096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 22.5 | 41.7 |
| 77 | 64.3 | 56.9 | 85.3 |



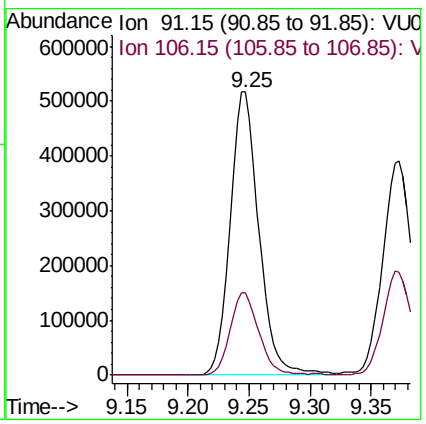


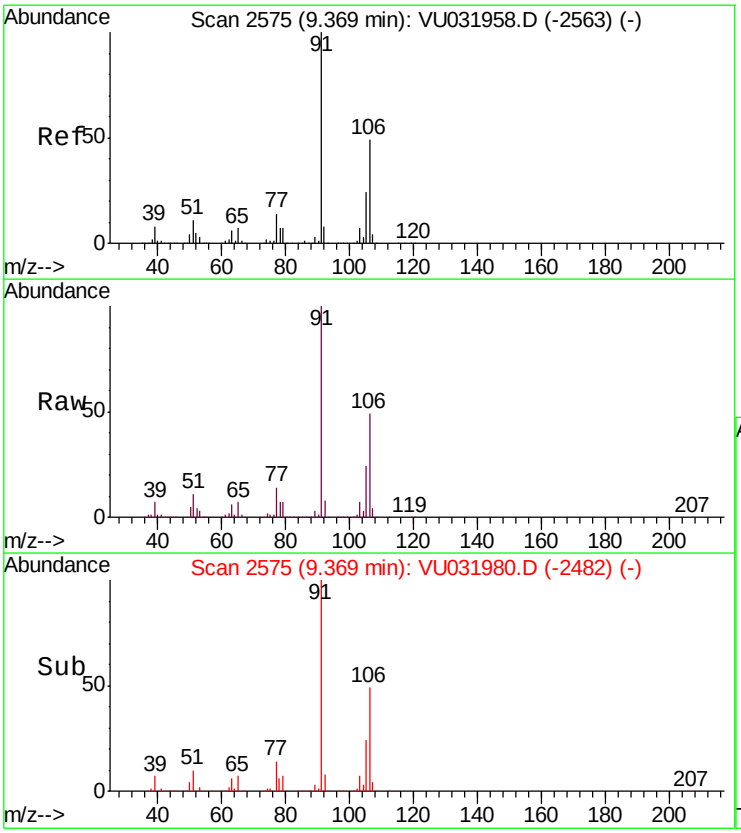

#52
Ethylbenzene
Concen: 4.958 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion: 91 Resp: 849177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.0 | 20.0 | 37.2 |

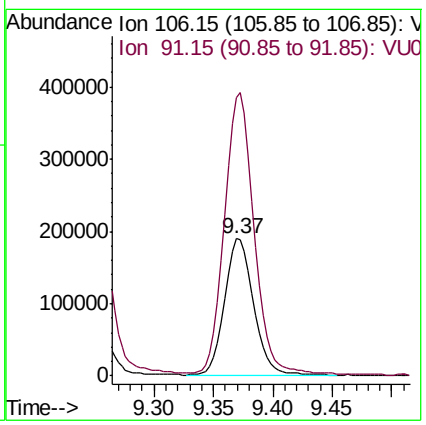


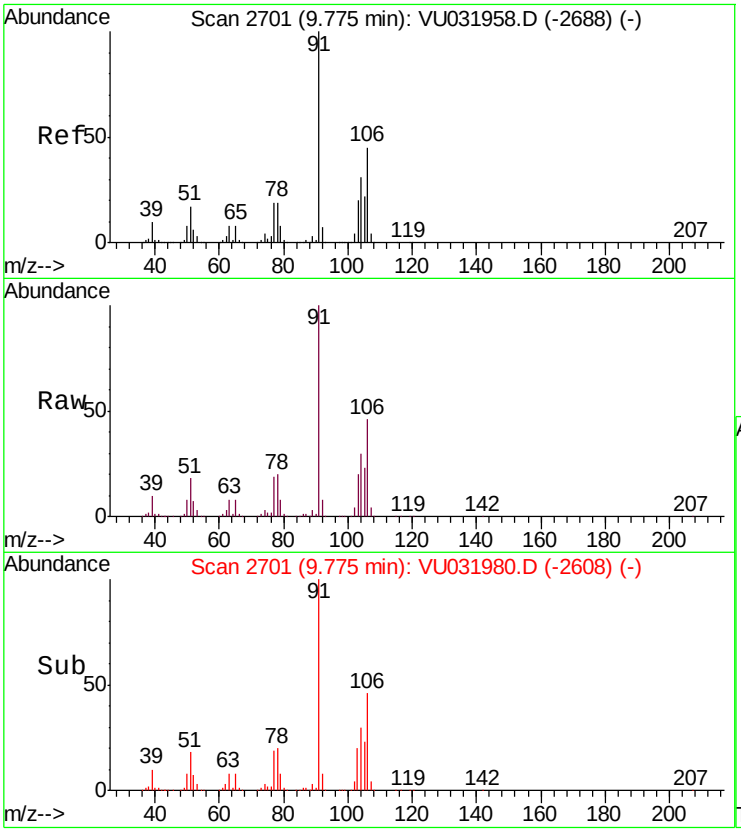




#53
m,p-Xylene
Concen: 5.223 ug/L
RT: 9.37 min Scan# 2575
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:106 Resp: 318452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.7 | 150.3 | 279.1 |



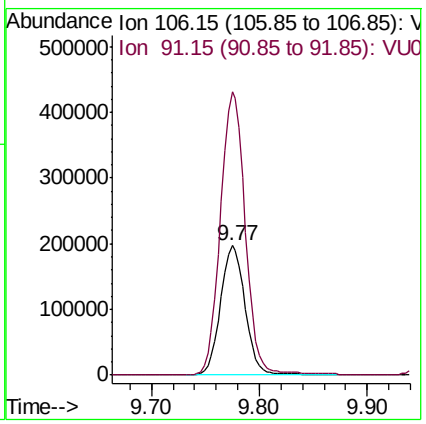


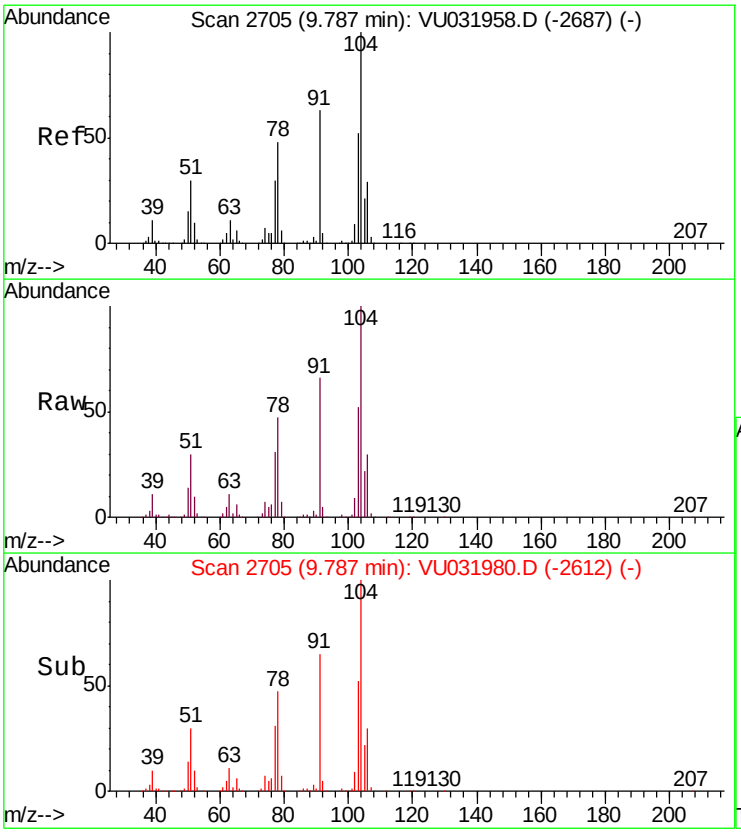

#54
o-Xylene
Concen: 5.385 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:106 Resp: 313976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.1 | 161.8 | 300.6 |

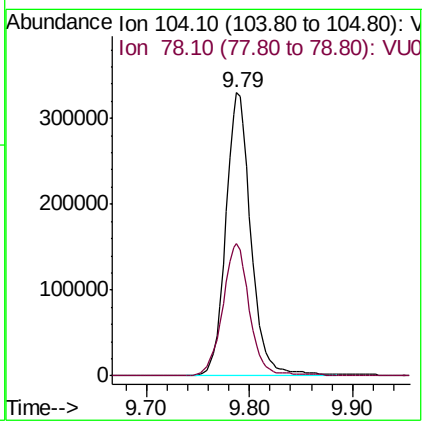


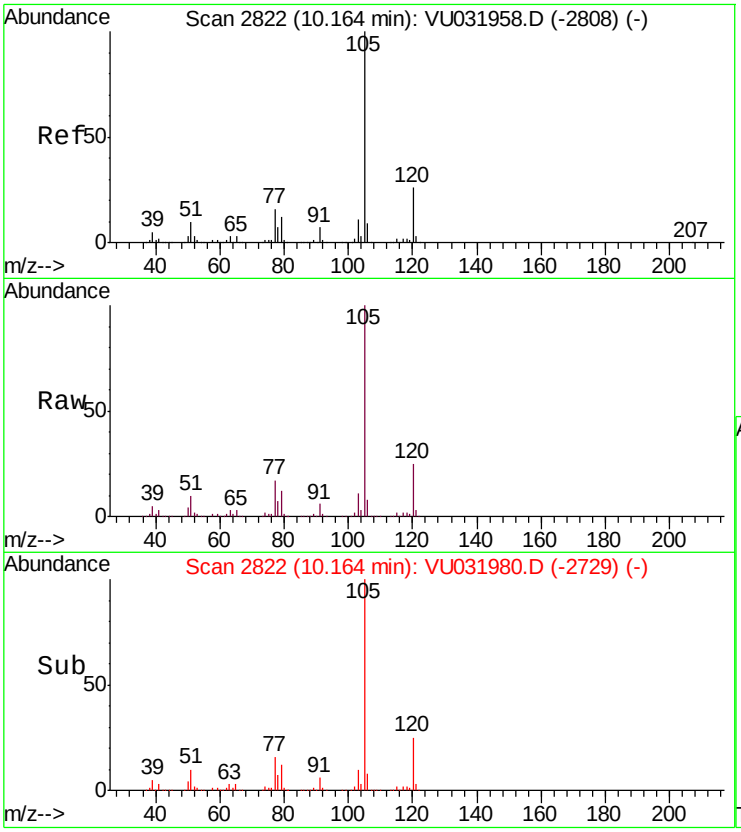




#55
Styrene
Concen: 5.593 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:104 Resp: 559653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.9 | 37.2 | 69.0 |



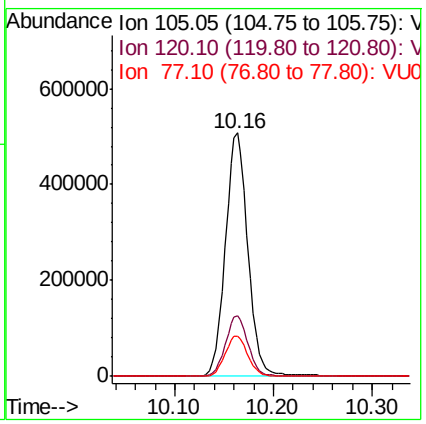


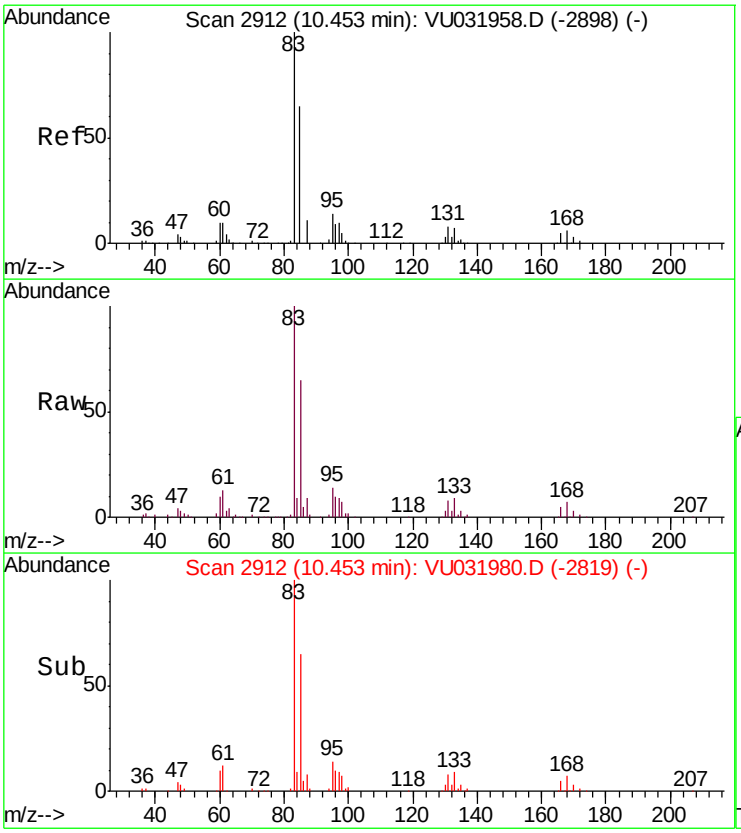

#56
Isopropylbenzene
Concen: 5.212 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion:105 Resp: 813615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 20.2 | 30.4 |
| 77 | 16.6 | 14.8 | 22.2 |

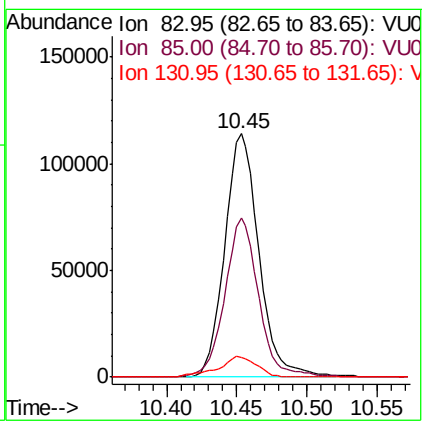


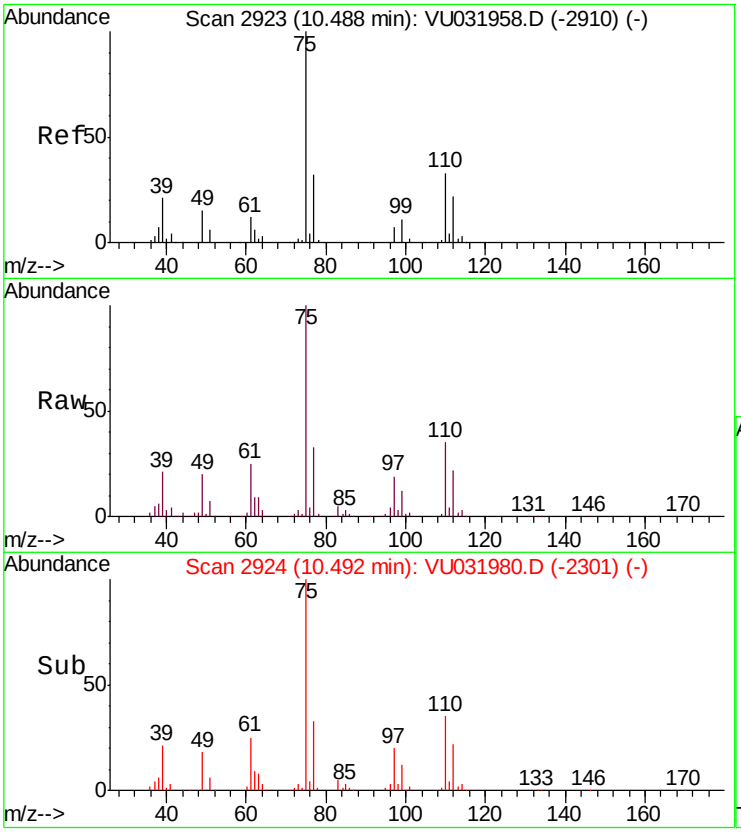




#58
1,1,2,2-Tetrachloroethane
Concen: 5.124 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 83 Resp: 192970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 44.3 | 82.3 |
| 131 | 8.3 | 6.0 | 9.0 |



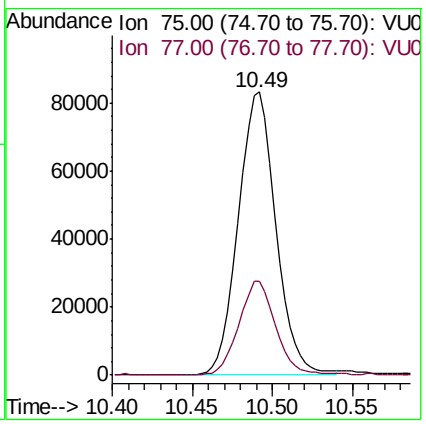


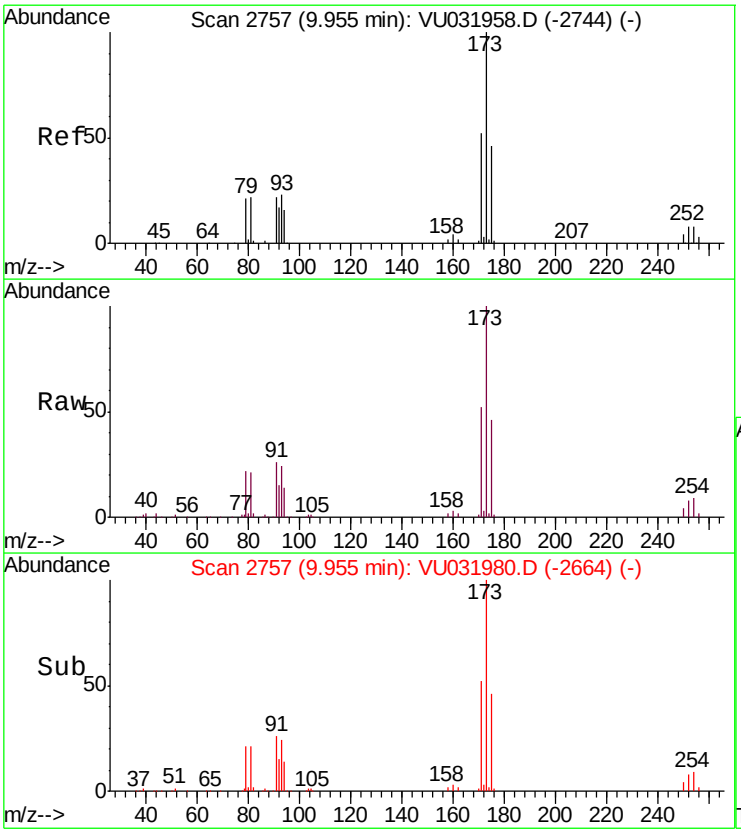

#59
1,2,3-Trichloropropane
Concen: 4.742 ug/L
RT: 10.49 min Scan# 2924
Delta R.T. 0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :** MSVOA_U
**ClientSampleId :** VSTD00530

Tgt Ion: 75 Resp: 133588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 26.3 | 39.5 |

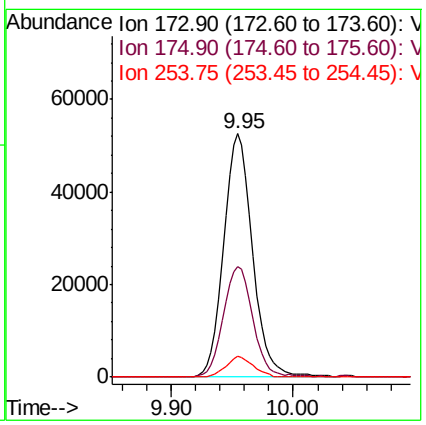


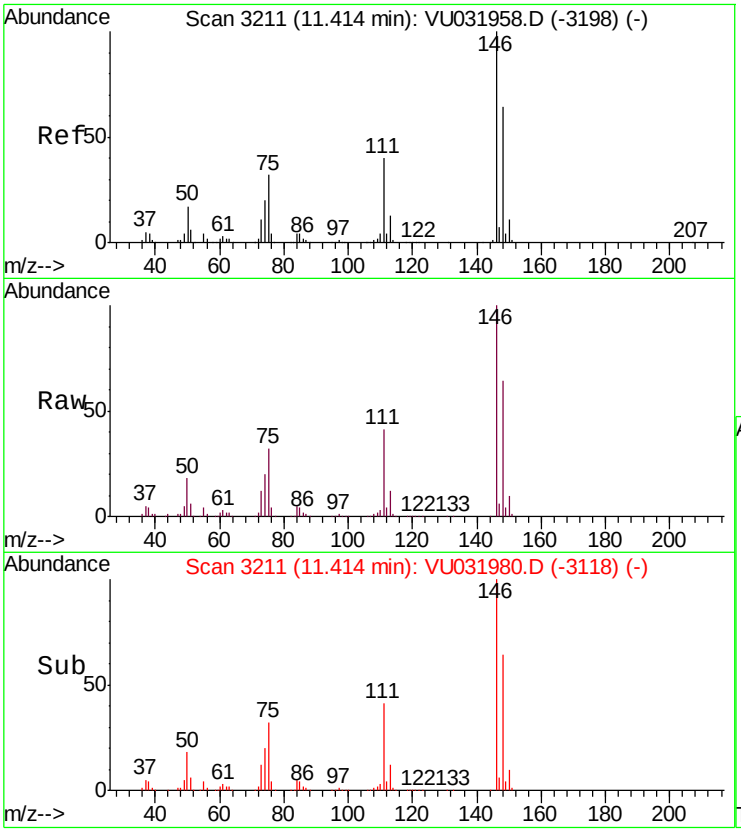




#61
Bromoform
Concen: 5.090 ug/L
RT: 9.95 min Scan# 2757
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:173 Resp: 87434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.5 | 37.2 | 55.8 |
| 254 | 8.2 | 5.8 | 8.8 |



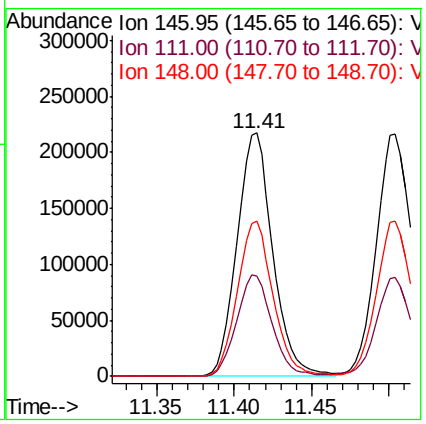


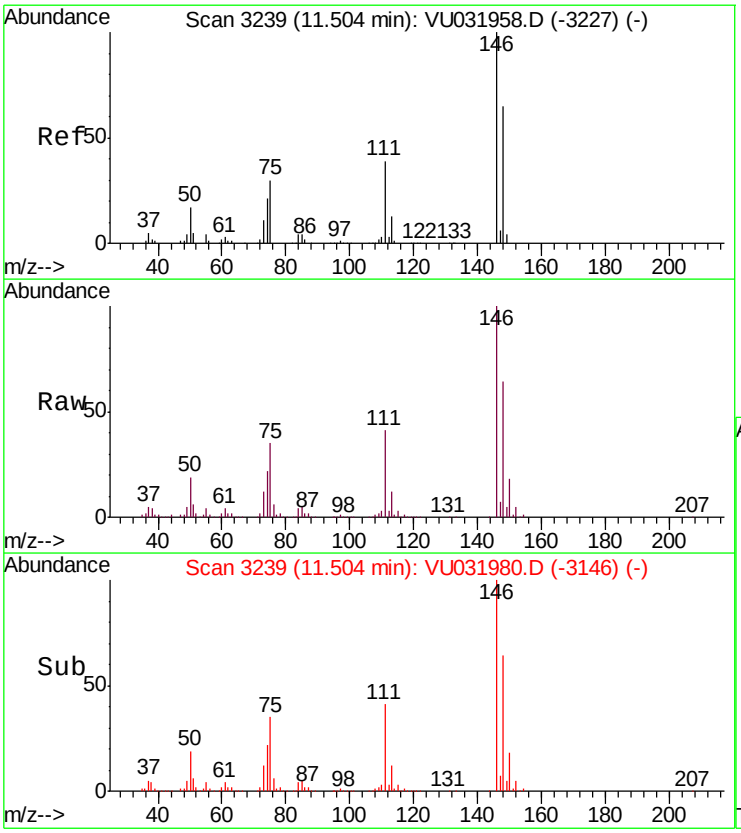

#62
1,3-Dichlorobenzene
Concen: 5.137 ug/L
RT: 11.41 min Scan# 3211
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:146 Resp: 350261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.2 | 29.4 | 54.6 |
| 148 | 63.7 | 44.0 | 81.6 |

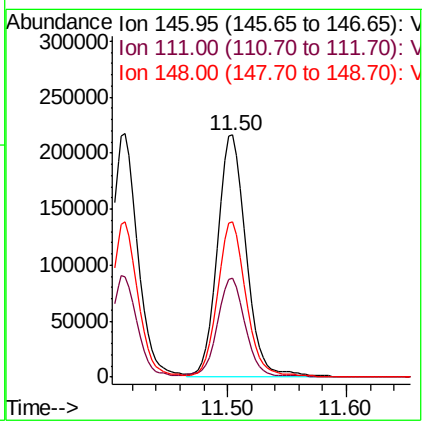


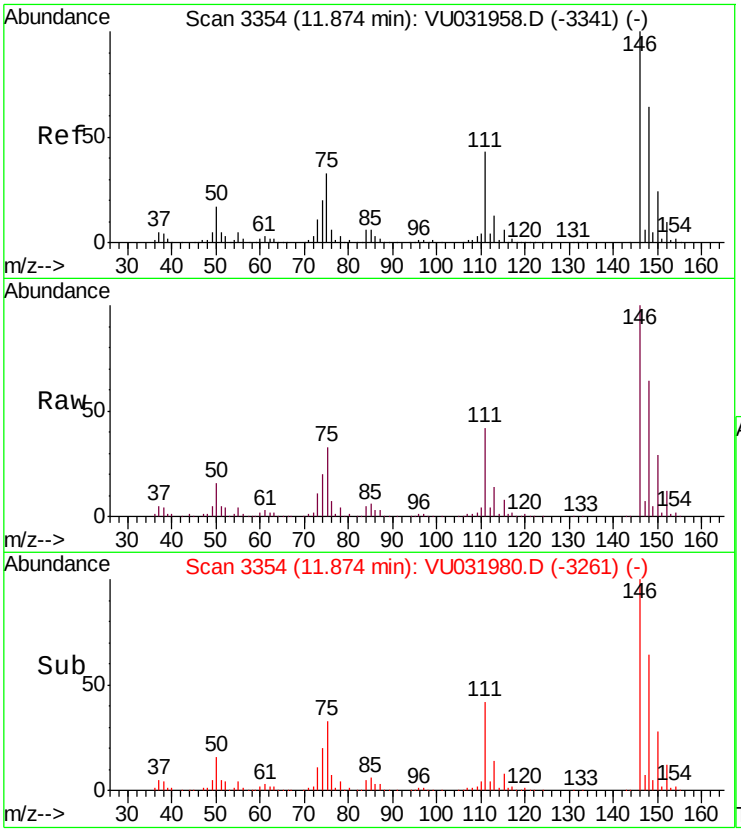




#63
1,4-Dichlorobenzene
Concen: 5.195 ug/L
RT: 11.50 min Scan# 3239
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:146 Resp: 359262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 29.5 | 54.7 |
| 148 | 64.4 | 44.8 | 83.2 |



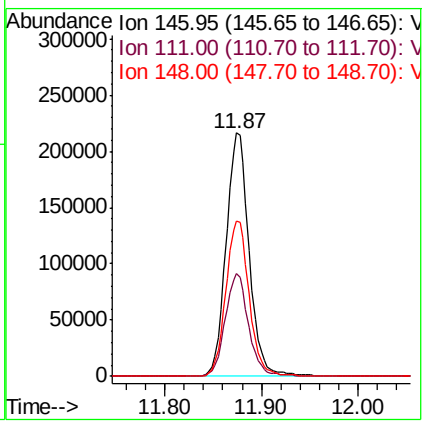


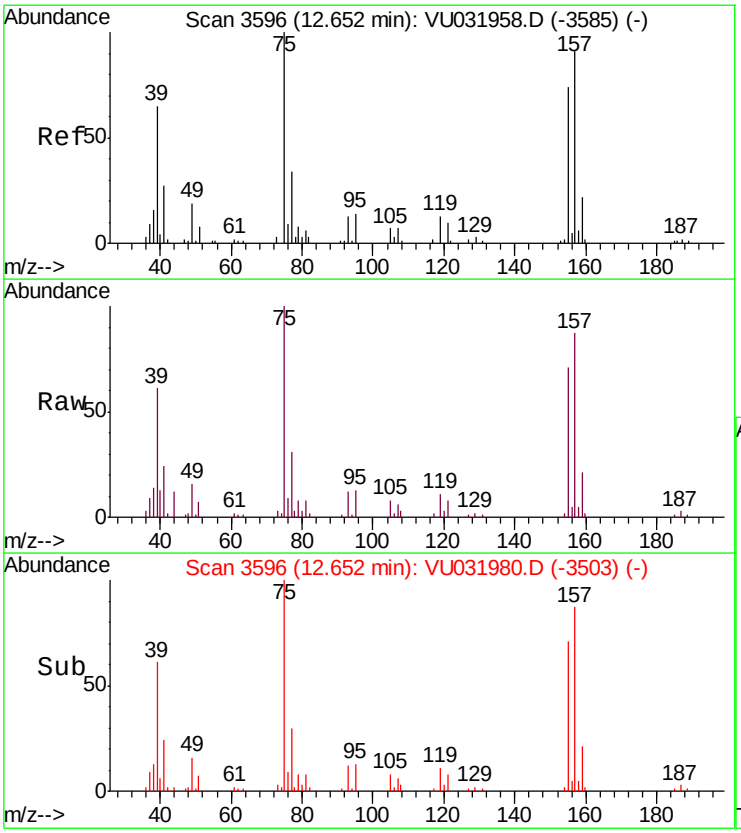

#65
1,2-Dichlorobenzene
Concen: 5.370 ug/L
RT: 11.87 min Scan# 3354
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:146 Resp: 357199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 37.0 | 55.4 |
| 148 | 63.9 | 52.2 | 78.4 |

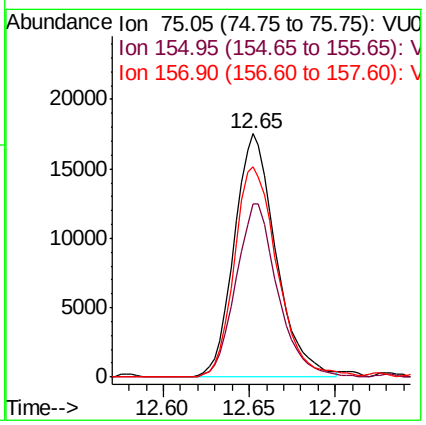


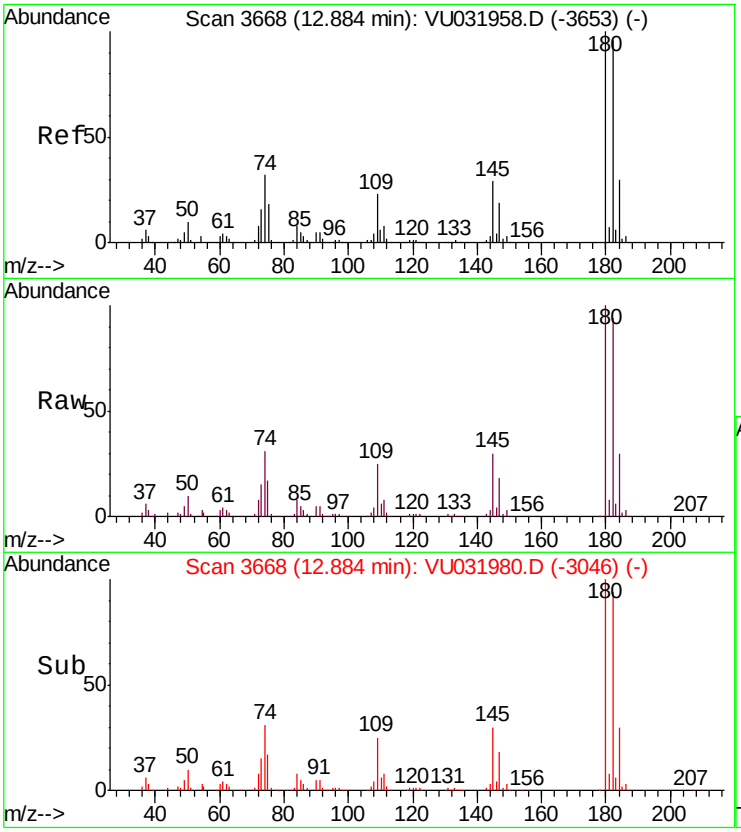




#66
1,2-Dibromo-3-chloropropane
Concen: 4.728 ug/L
RT: 12.65 min Scan# 3596
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion: 75 Resp: 29568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 71.0 | 42.2 | 63.2# |
| 157 | 86.5 | 54.9 | 82.3# |



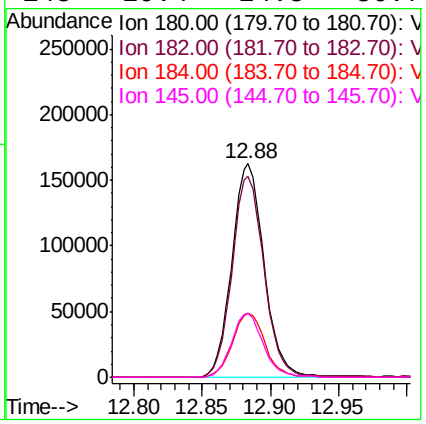


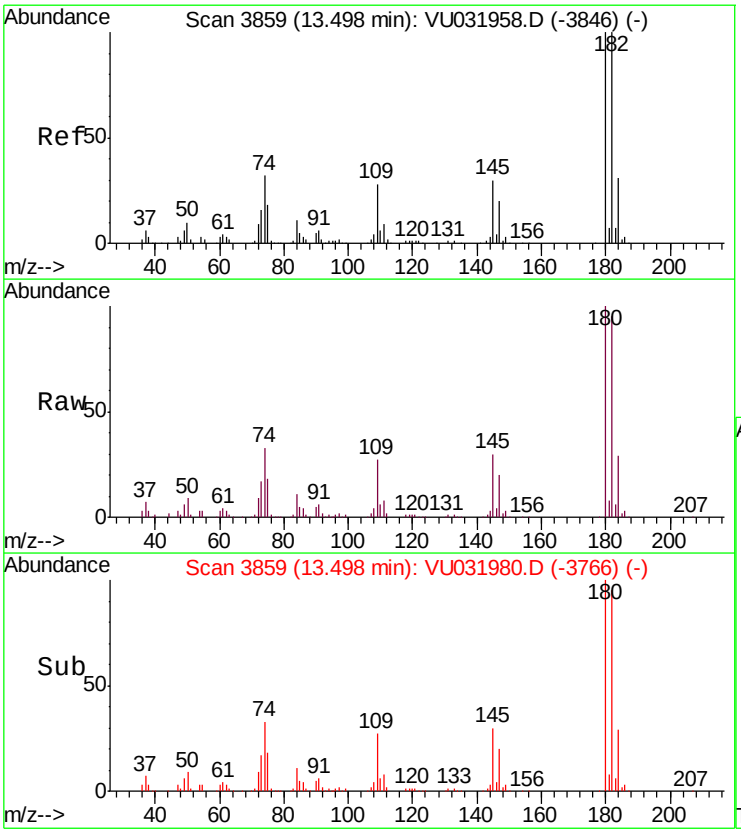

#67
1,3,5-Trichlorobenzene
Concen: 5.141 ug/L
RT: 12.88 min Scan# 3668
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:180 Resp: 266314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 77.0 | 115.4 |
| 184 | 30.4 | 24.1 | 36.1 |
| 145 | 29.4 | 24.5 | 36.7 |

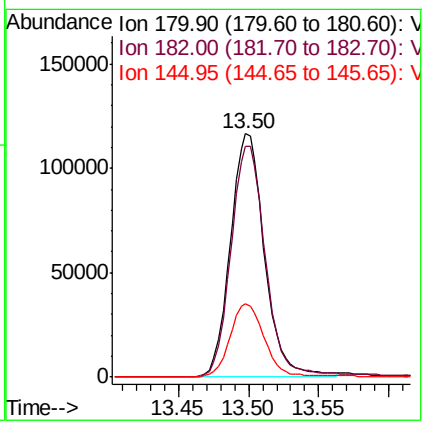


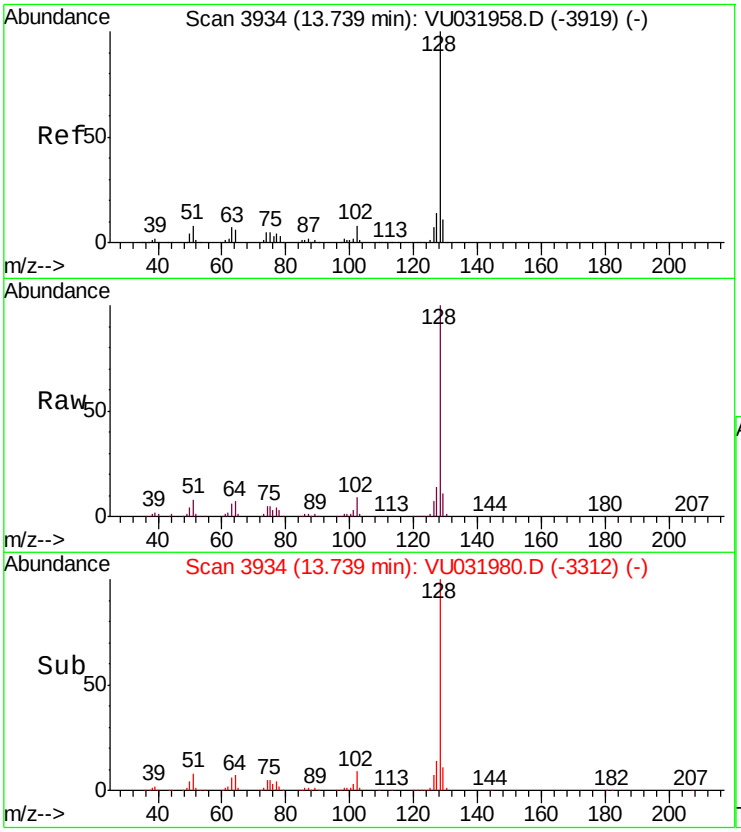




#68
1,2,4-trichlorobenzene
Concen: 5.169 ug/L
RT: 13.50 min Scan# 3859
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:180 Resp: 197793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.9 | 74.8 | 112.2 |
| 145 | 30.4 | 25.4 | 38.2 |



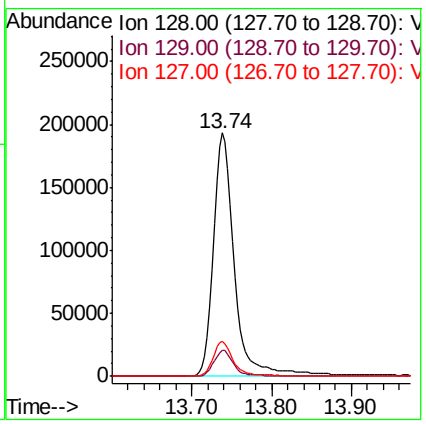


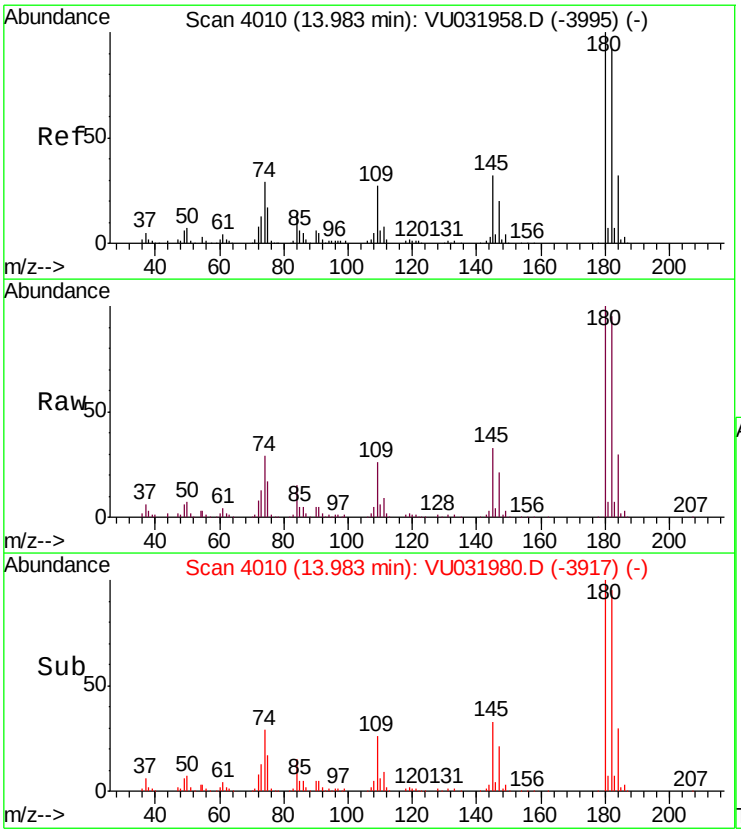

#69
Naphthalene
Concen: 5.390 ug/L
RT: 13.74 min Scan# 3934
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

**Instrument :**
MSVOA_U
**ClientSampleId :**
VSTD00530

Tgt Ion:128 Resp: 353758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.1 | 8.0 | 12.0 |
| 127 | 13.2 | 10.7 | 16.1 |




#70
1,2,3-Trichlorobenzene
Concen: 5.806 ug/L
RT: 13.98 min Scan# 4010
Delta R.T. -0.00 min
Lab File: VU031980.D
Acq: 13 May 2019 19:55

Tgt Ion:180 Resp: 206797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 78.4 | 117.6 |
| 145 | 32.4 | 27.4 | 41.0 |