Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062219\

Quantitation Report (Not Reviewed)

Data File : VV011721.D
Acq On : 22 Jun 2019 07:35
Operator : SY/MD
Sample : K3462-01 10,000X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 52 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BFCL0

Quant Time: Jun 24 05:51:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 24 05:42:24 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.66 | 114 | 129641 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 8.89 | 117 | 123928 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152 | 49025 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.32 | 65 | 43305 | 5.03 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 100.60% | | | |
| 7) Chloroethane-d5 | 1.57 | 69 | 32309 | 5.34 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 106.80% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.12 | 63 | 73395 | 4.20 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 84.00% | | | |
| 20) 2-Butanone-d5 | 3.95 | 46 | 158624 | 69.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 139.96%# | | | |
| 24) Chloroform-d | 4.40 | 84 | 93621 | 5.96 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 119.20% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.08 | 65 | 57335 | 6.08 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 121.60% | | | |
| 32) Benzene-d6 | 5.10 | 84 | 192049 | 5.56 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 111.20% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.12 | 67 | 61797 | 5.80 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 116.00% | | | |
| 41) Toluene-d8 | 7.36 | 98 | 159502 | 5.10 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 102.00% | | | |
| 43) trans-1,3-Dichloropropene- | 7.66 | 79 | 15782 | 4.25 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 85.00% | | | |
| 46) 2-Hexanone-d5 | 8.13 | 63 | 117323 | 67.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 134.40%# | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84 | 46182 | 6.24 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 124.80%# | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.67 | 152 | 55273 | 5.98 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 119.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Chloromethane | 1.25 | 50 | 5296 | 0.433 | ug/L | 87 |
| 8) Chloroethane | 1.59 | 64 | 1364 | 0.218 | ug/L | 88 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 2097 | 0.239 | ug/L # | 84 |
| 12) 1,1-Dichloroethene | 2.13 | 96 | 10243 | 1.277 | ug/L # | 1 |
| 16) Methylene chloride | 2.53 | 84 | 1149 | 0.129 | ug/L | 87 |
| 19) 1,1-Dichloroethane | 3.23 | 63 | 13306 | 0.710 | ug/L | 94 |
| 22) cis-1,2-Dichloroethene | 3.96 | 96 | 25320 | 2.443 | ug/L | 97 |
| 25) Chloroform | 4.43 | 83 | 6280 | 0.305 | ug/L | 83 |
| 29) 1,1,1-Trichloroethane | 4.65 | 97 | 146256 | 9.166 | ug/L | 100 |
| 31) Carbon tetrachloride | 4.65 | 117 | 18313 | 1.358 | ug/L | 95 |
| 34) Trichloroethene | 5.96 | 95 | 5979 | 0.549 | ug/L | 92 |
| 35) Methylcyclohexane | 6.12 | 83 | 15000 | 0.853 | ug/L # | 15 |
| 37) 1,2-Dichloropropane | 6.12 | 63 | 8100 | 0.777 | ug/L # | 88 |
| 39) cis-1,3-Dichloropropene | 7.03 | 75 | 1656 | 0.121 | ug/L # | 64 |
| 42) Toluene | 7.43 | 91 | 35926 | 0.837 | ug/L | 97 |
| 44) trans-1,3-Dichloropropene | 7.67 | 75 | 948 | 0.094 | ug/L # | 73 |
| 47) Tetrachloroethene | 8.02 | 164 | 1660 | 0.205 | ug/L # | 72 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062219\

Quantitation Report (Not Reviewed)

Data File : VV011721.D
Acq On : 22 Jun 2019 07:35
Operator : SY/MD
Sample : K3462-01 10,000X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 52 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BFCL0

Quant Time: Jun 24 05:51:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 24 05:42:24 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 48) 2-Hexanone | 8.13 | 43 | 16675 | 3.624 | ug/L | # | 67 |
| 49) Dibromochloromethane | 8.02 | 129 | 1327 | 0.199 | ug/L | # | 11 |

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

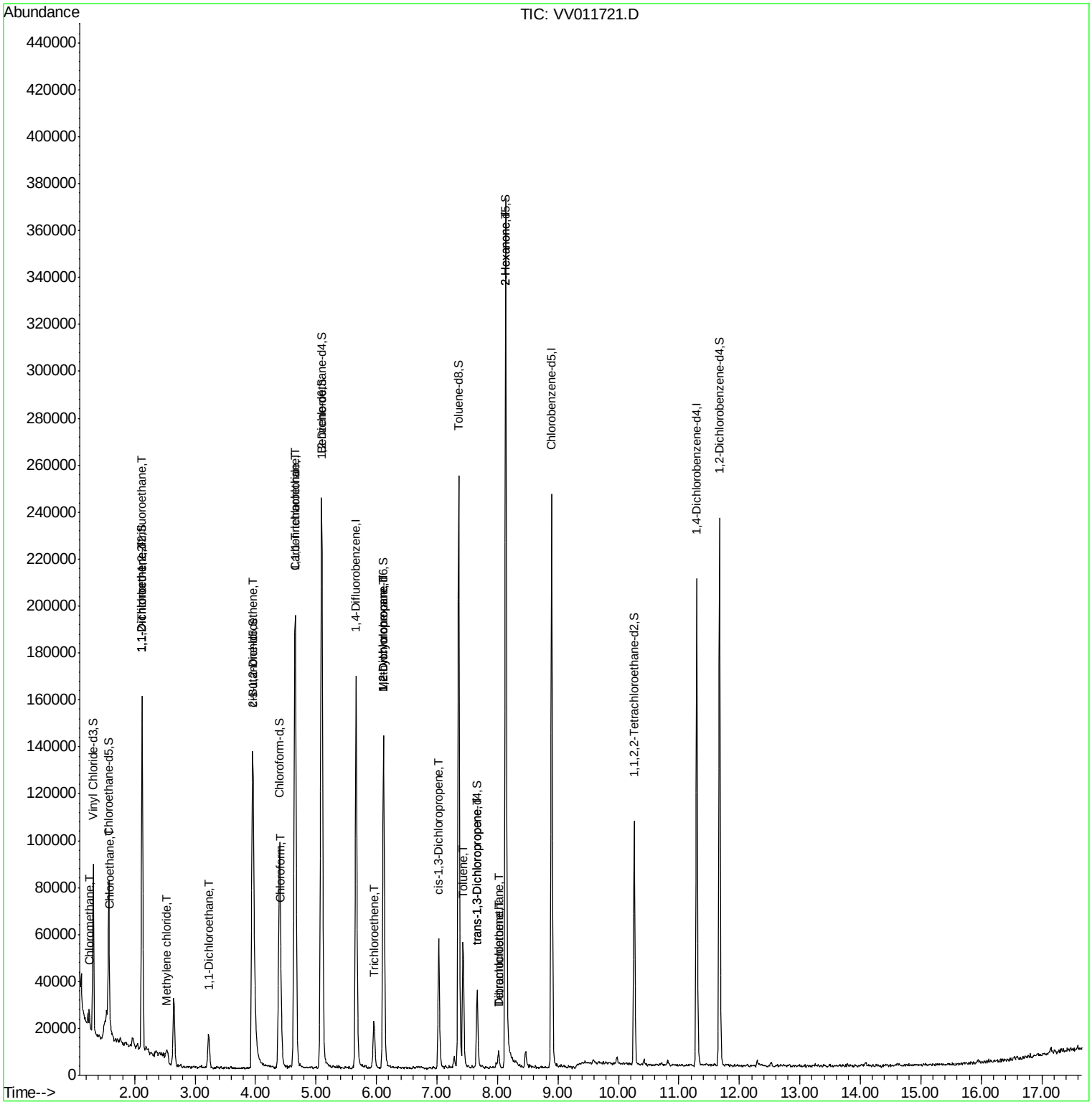
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062219\

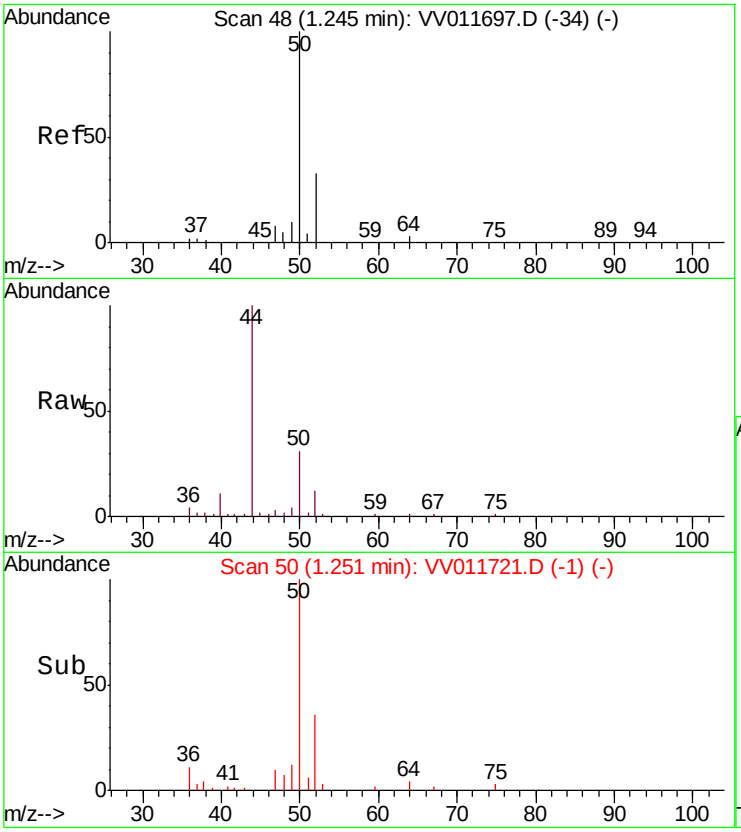
Quantitation Report (Not Reviewed)

Data File : VV011721.D
Acq On : 22 Jun 2019 07:35
Operator : SY/MD
Sample : K3462-01 10,000X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 52 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Quant Time: Jun 24 05:51:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 24 05:42:24 2019
Response via : Initial Calibration



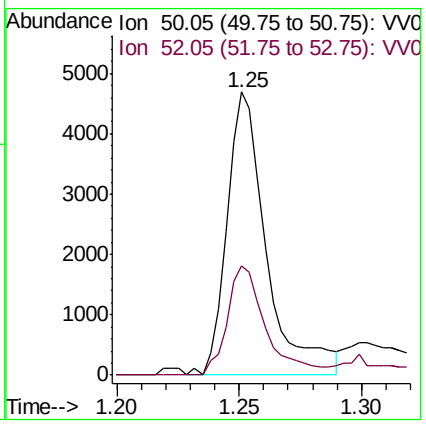


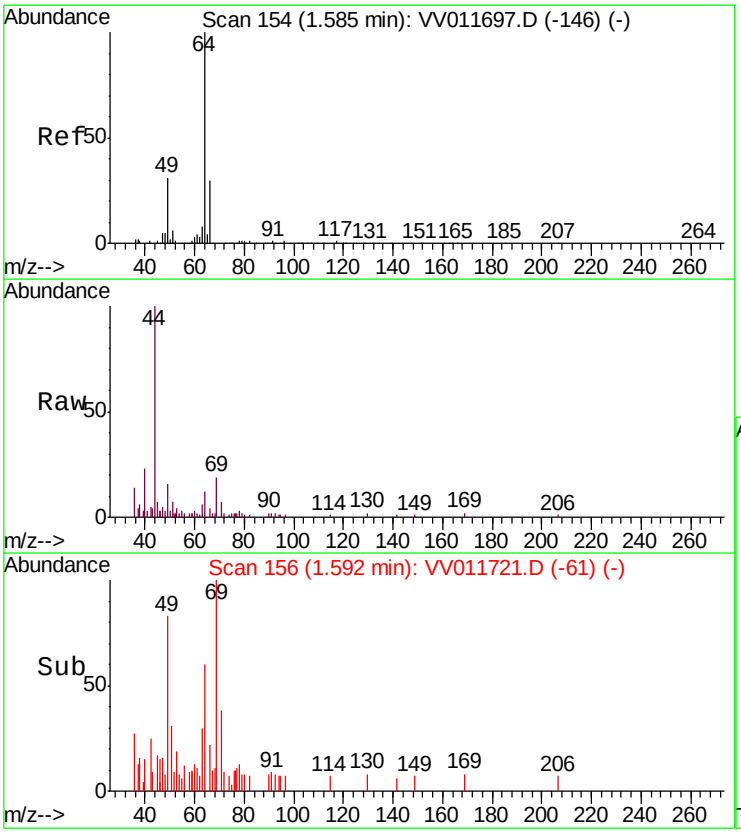

#3
Chloromethane
Concen: 0.433 ug/L
RT: 1.25 min Scan# 50
Delta R.T. 0.01 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion: 50 Resp: 5296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 38.4 | 22.0 | 40.8 |

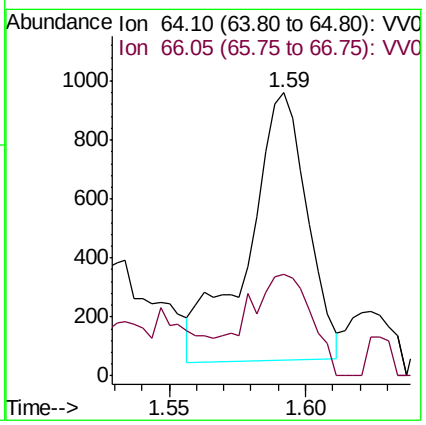


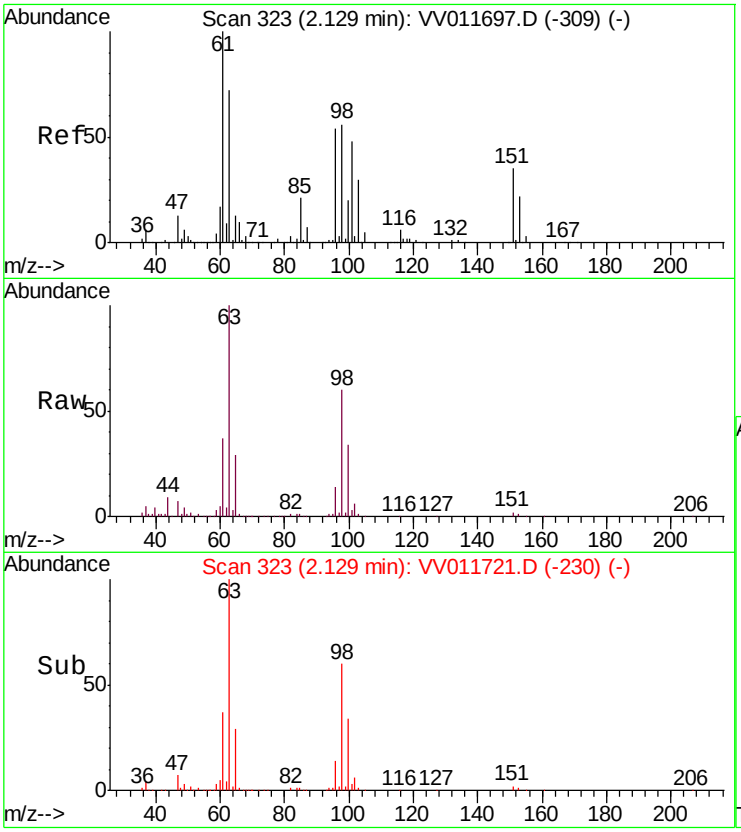




#8
Chloroethane
Concen: 0.218 ug/L
RT: 1.59 min Scan# 156
Delta R.T. 0.01 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 64 Resp: 1364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 35.7 | 20.6 | 38.4 |



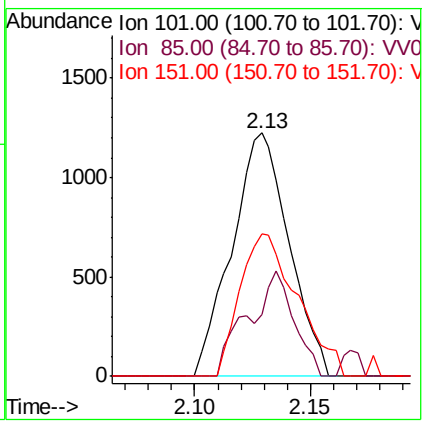


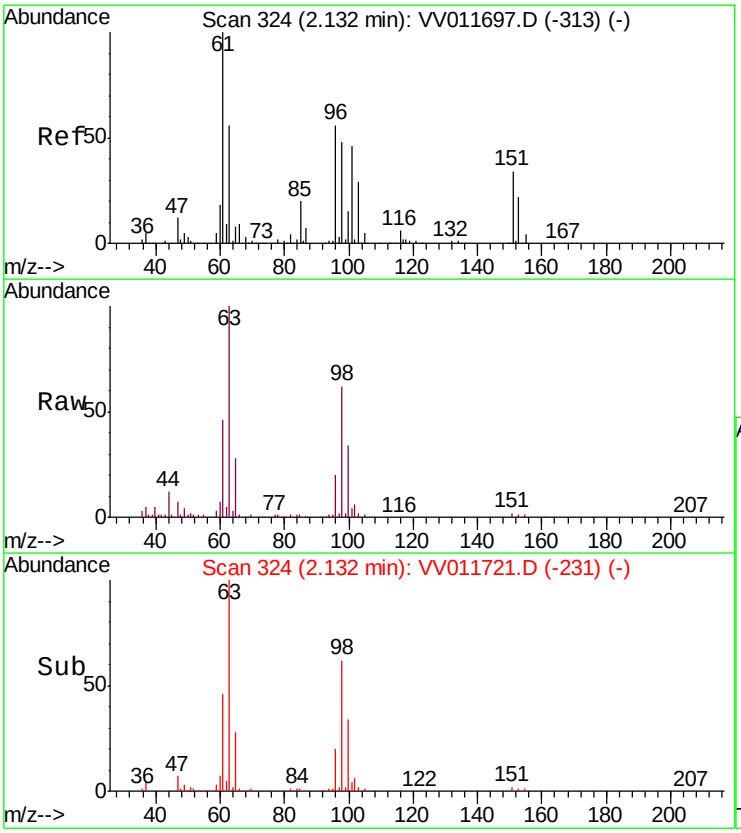

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.239 ug/L
RT: 2.13 min Scan# 323
Delta R.T. -0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion:101 Resp: 2097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 34.6 | 35.9 | 53.9# |
| 151 | 58.8 | 57.4 | 86.2 |

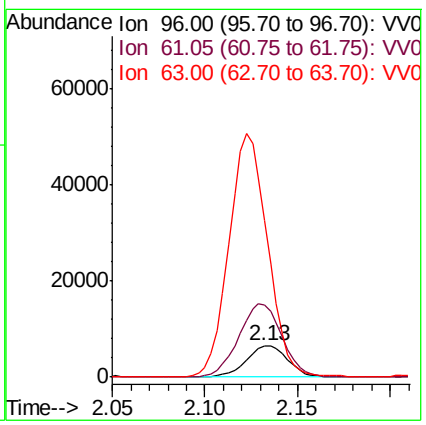


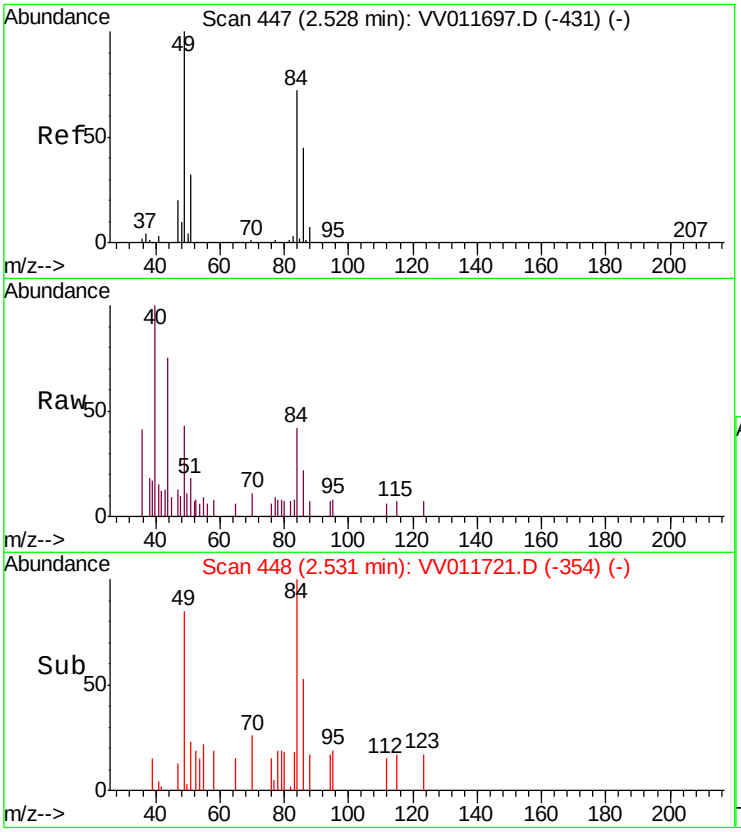




#12
1,1-Dichloroethene
Concen: 1.277 ug/L
RT: 2.13 min Scan# 324
Delta R.T. -0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 96 Resp: 10243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 228.9 | 131.5 | 244.1 |
| 63 | 494.2 | 91.8 | 170.4# |



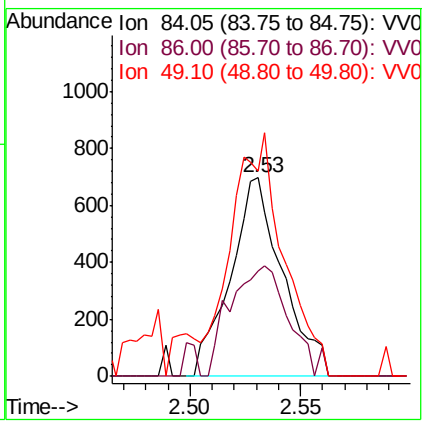


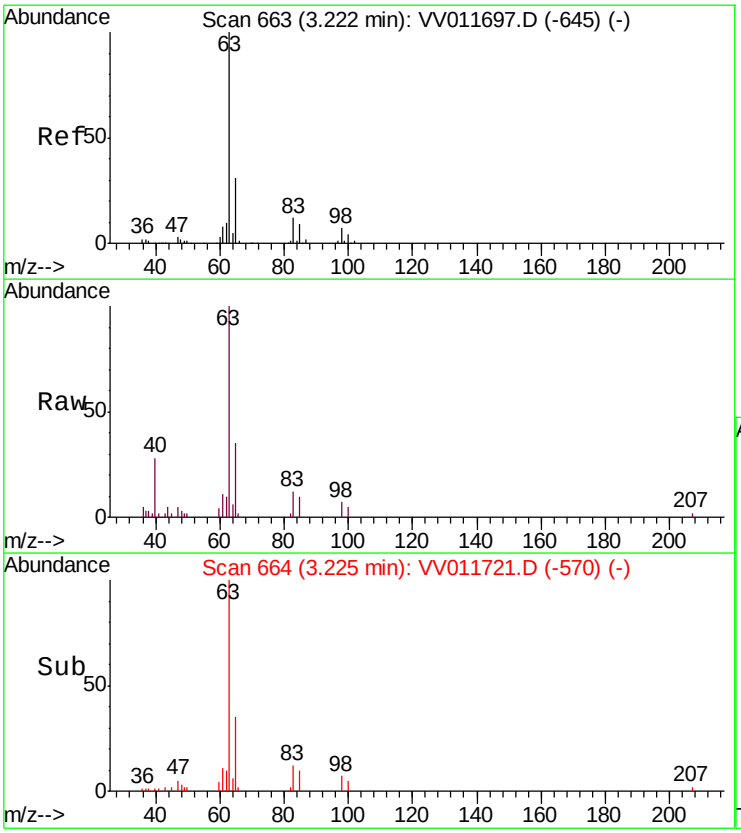

#16
Methylene chloride
Concen: 0.129 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion: 84 Resp: 1149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 53.1 | 44.9 | 83.5 |
| 49 | 129.3 | 101.4 | 188.2 |

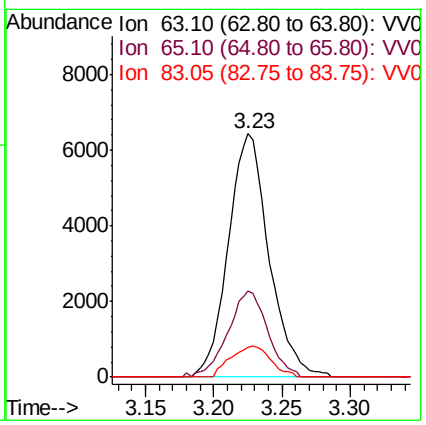


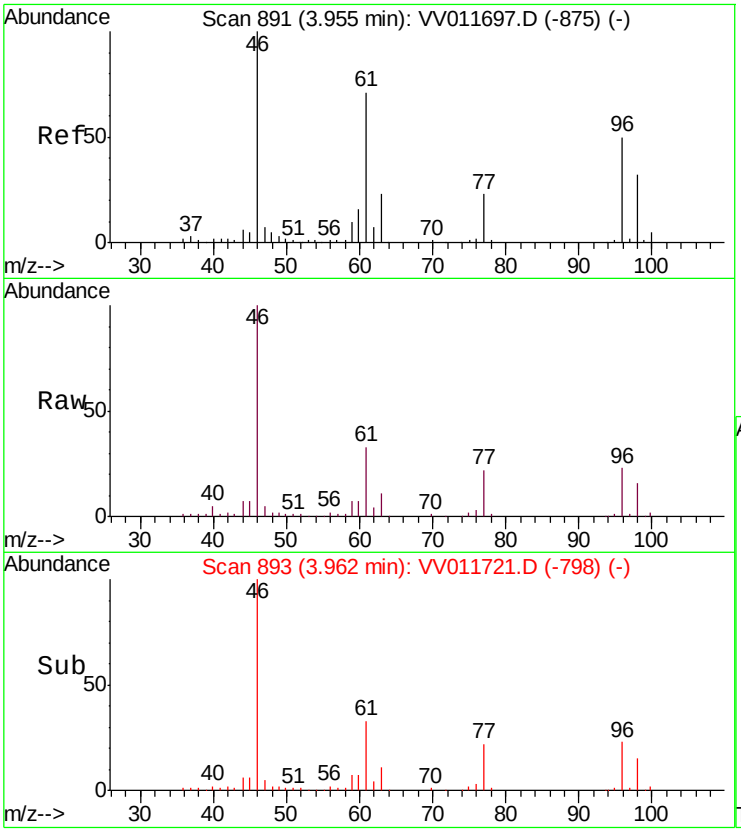




#19
1,1-Dichloroethane
Concen: 0.710 ug/L
RT: 3.23 min Scan# 664
Delta R.T. 0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 63 Resp: 13306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 37.3 | 23.0 | 42.8 |
| 83 | 12.5 | 9.5 | 17.7 |



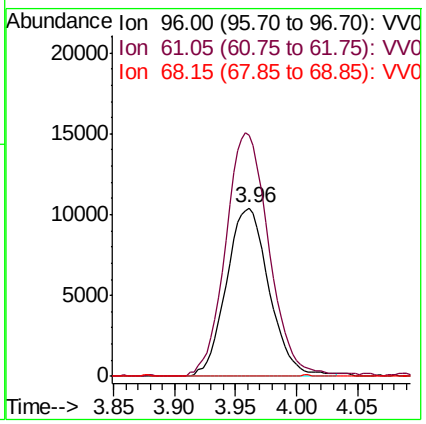


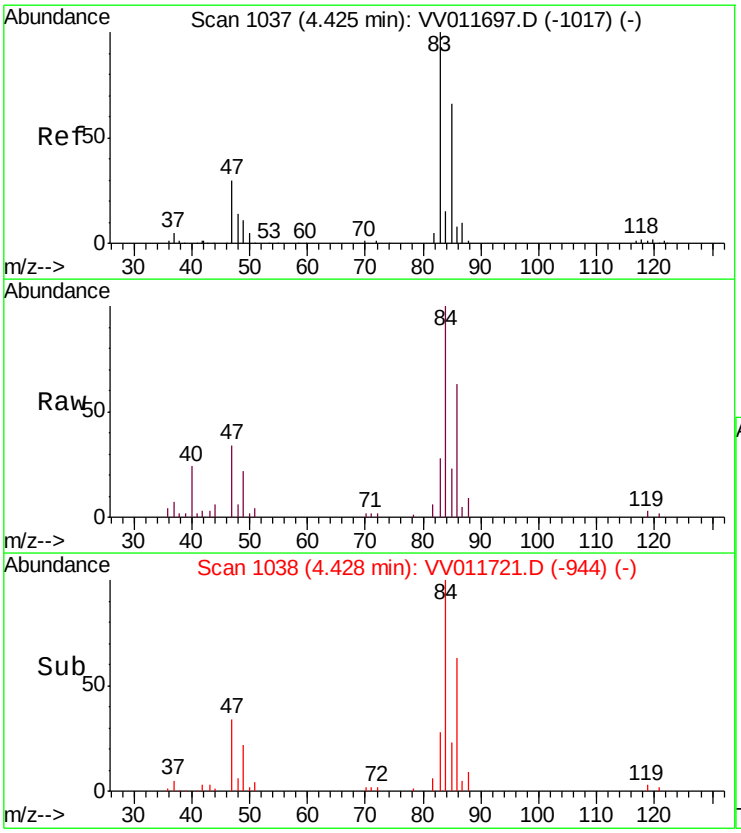

#22
cis-1,2-Dichloroethene
Concen: 2.443 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.01 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion: 96 Resp: 25320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.1 | 97.9 | 181.7 |
| 68 | 0.0 | 0.0 | 0.0 |

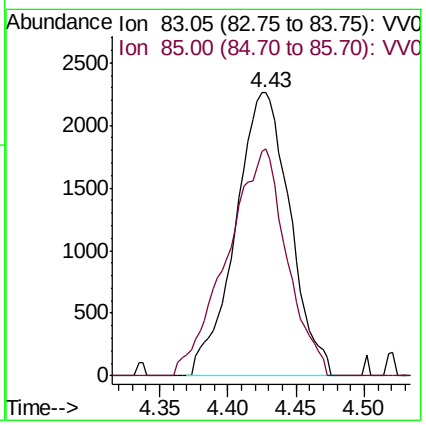


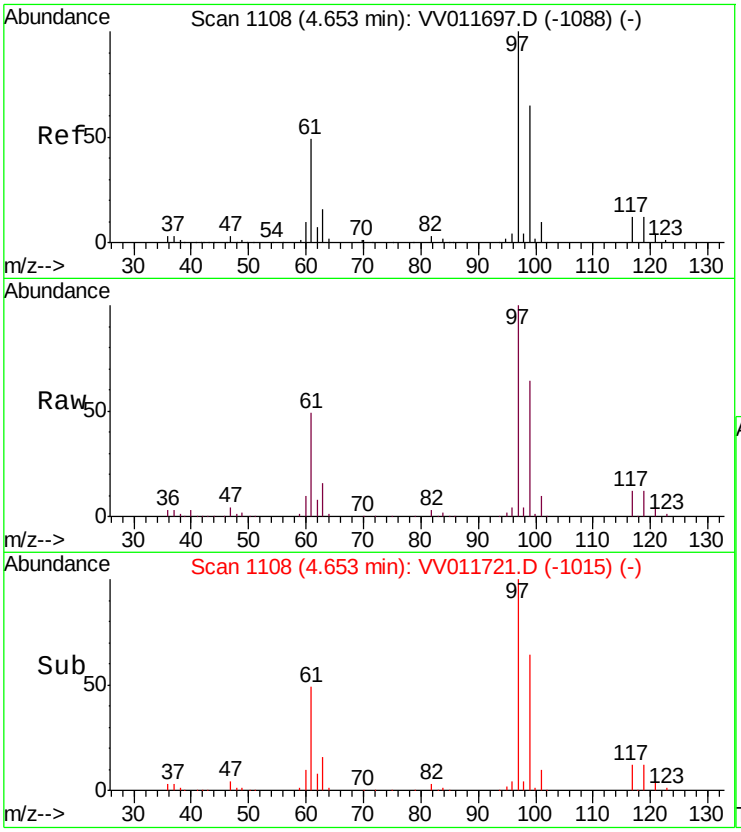




#25
Chloroform
Concen: 0.305 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 83 Resp: 6280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 80.4 | 47.0 | 87.2 |



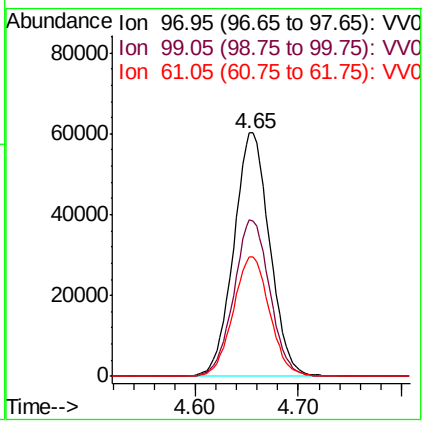


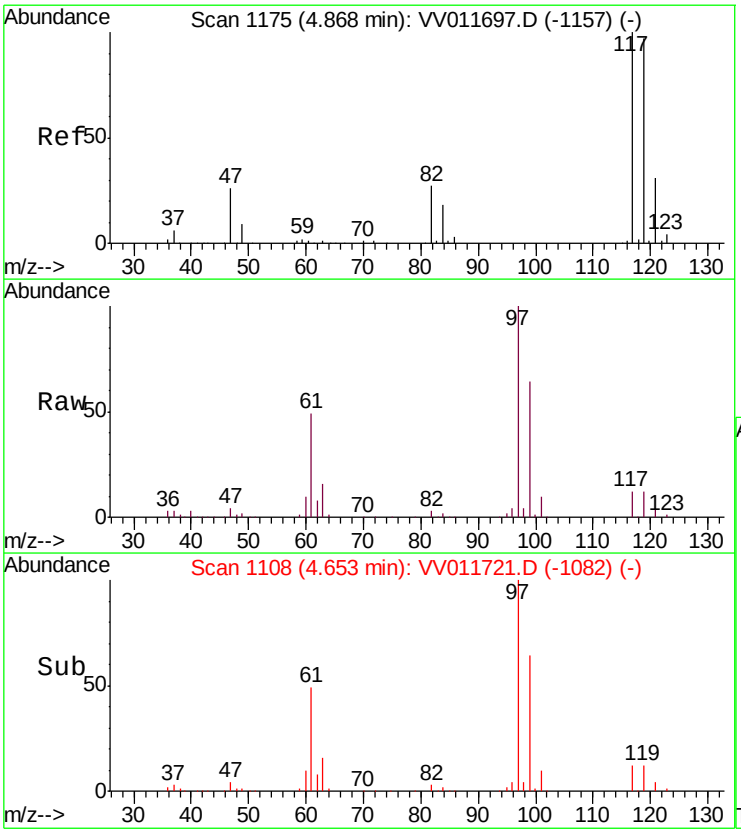

#29
1,1,1-Trichloroethane
Concen: 9.166 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion: 97 Resp: 146256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 51.6 | 77.4 |
| 61 | 49.8 | 39.8 | 59.6 |

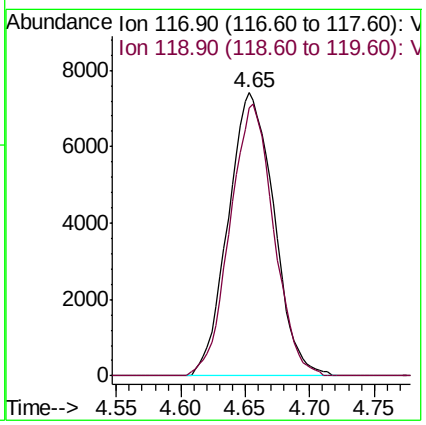


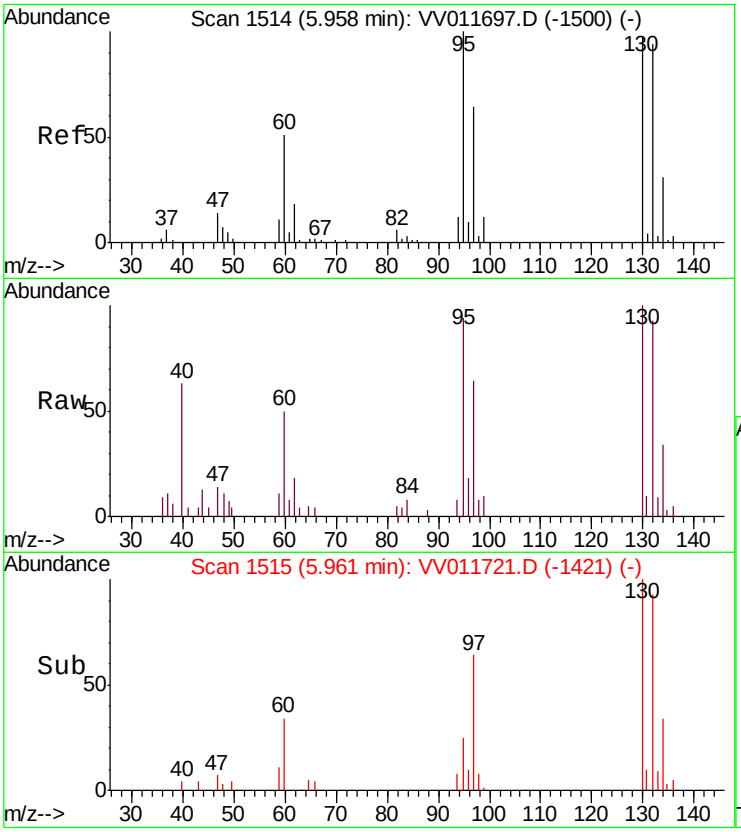




#31
Carbon tetrachloride
Concen: 1.358 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.22 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion:117 Resp: 18313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.5 | 77.1 | 115.7 |



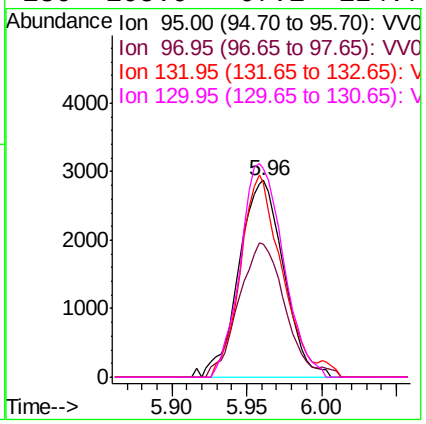


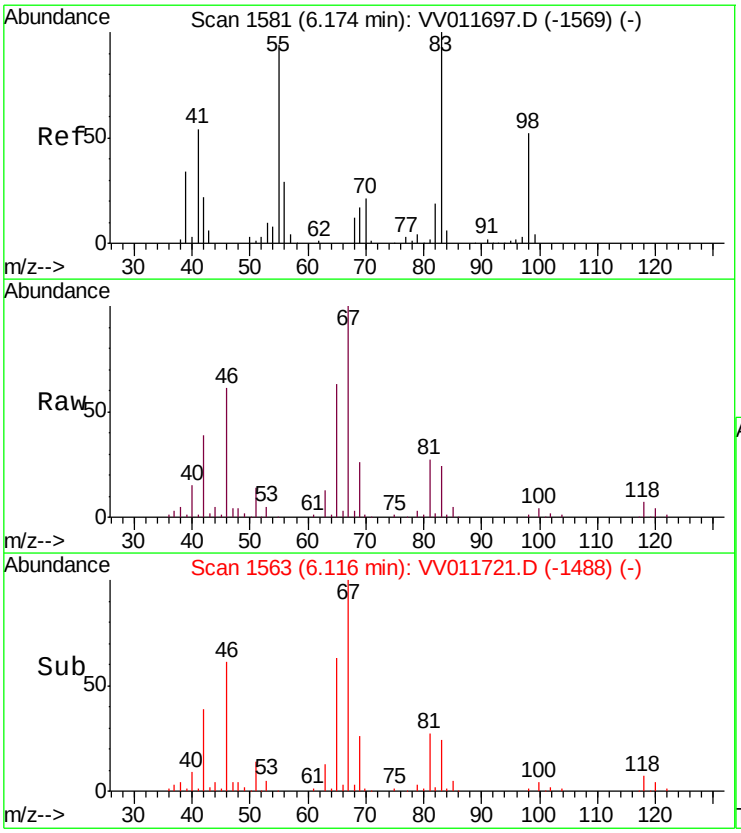

#34
Trichloroethene
Concen: 0.549 ug/L
RT: 5.96 min Scan# 1515
Delta R.T. 0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :** MSVOA_V
**ClientSampleId :** BFCL0

Tgt Ion: 95 Resp: 5979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 67.5 | 44.4 | 82.5 |
| 132 | 98.7 | 65.0 | 120.6 |
| 130 | 105.9 | 67.1 | 124.7 |

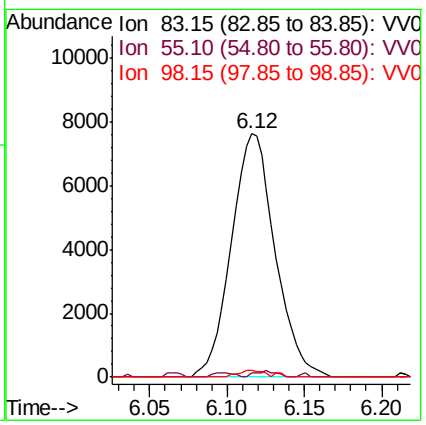


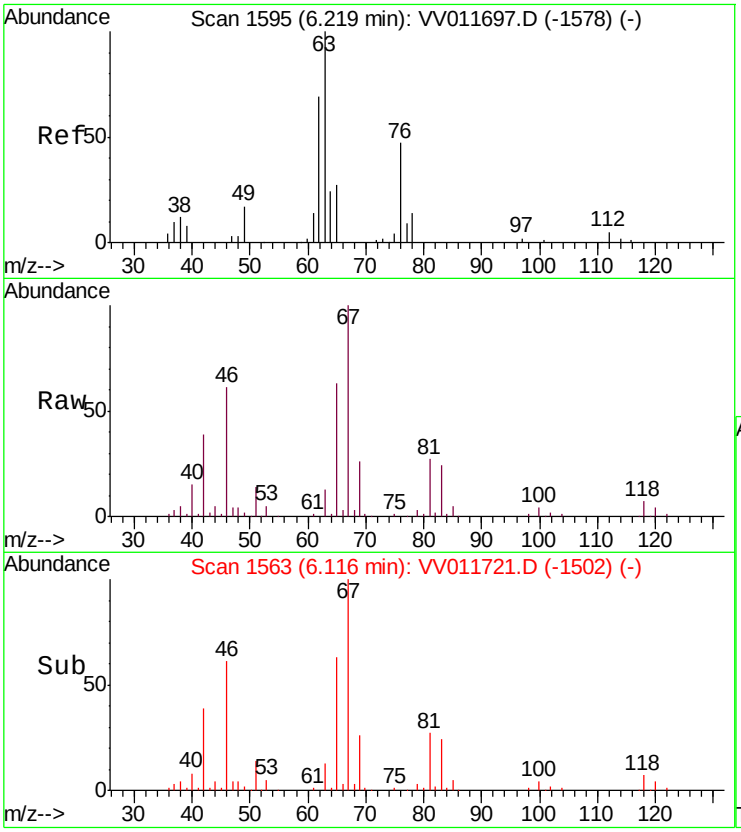




#35
Methylcyclohexane
Concen: 0.853 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.06 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 83 Resp: 15000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 0.9 | 69.4 | 104.2# |
| 98 | 1.6 | 40.2 | 60.4# |



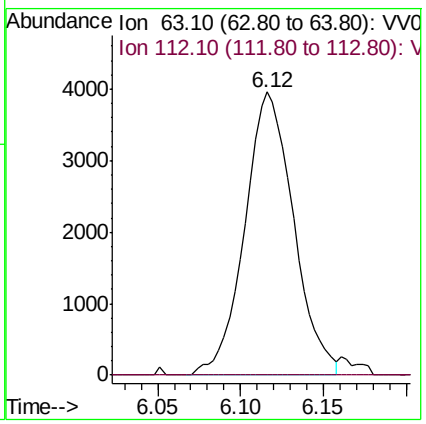


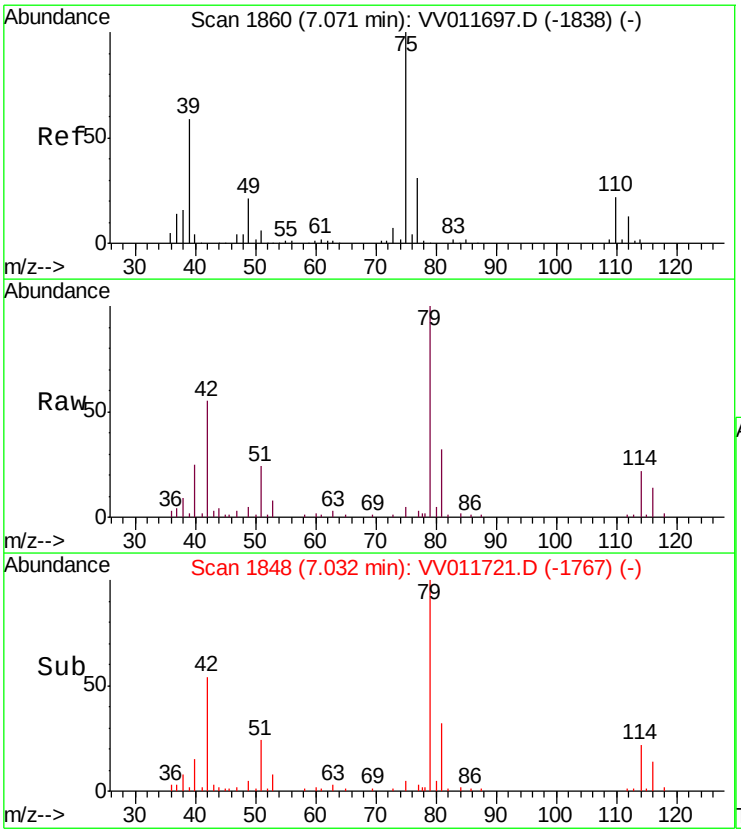

#37
1,2-Dichloropropane
Concen: 0.777 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion: 63 Resp: 8100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 0.3 | 3.4 | 5.2# |

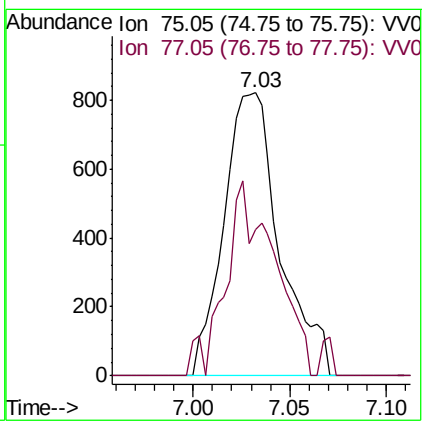


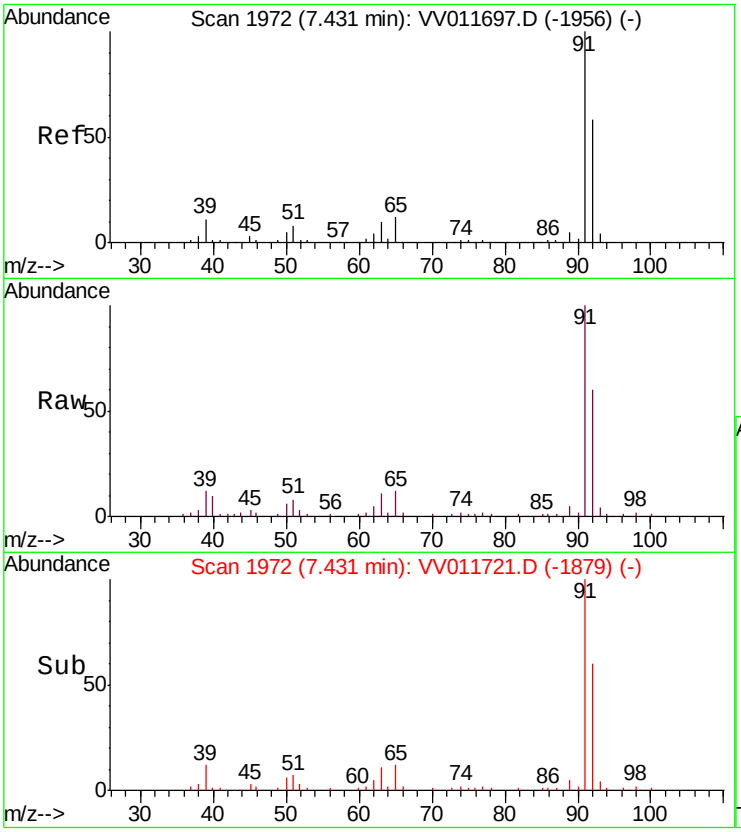




#39
cis-1,3-Dichloropropene
Concen: 0.121 ug/L
RT: 7.03 min Scan# 1848
Delta R.T. -0.04 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 75 Resp: 1656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 51.8 | 22.4 | 41.6# |



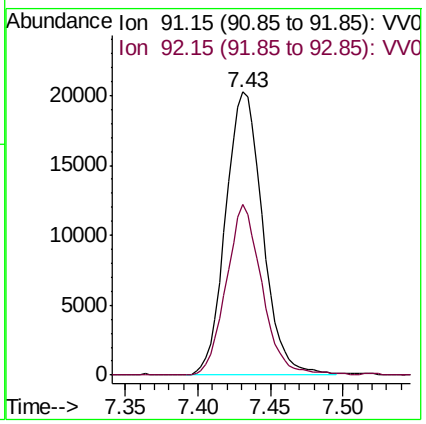


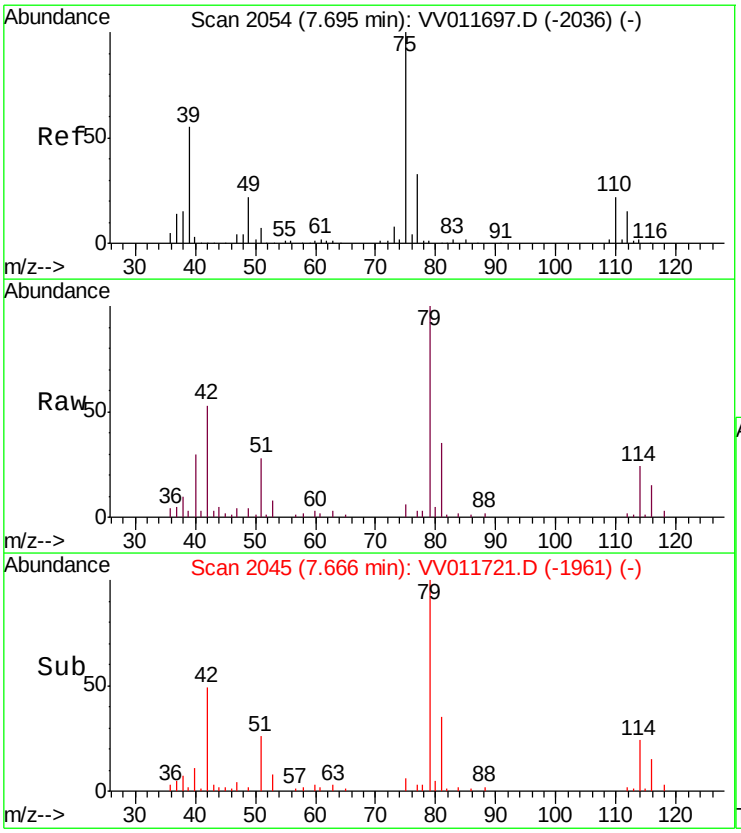

#42
Toluene
Concen: 0.837 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion: 91 Resp: 35926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.1 | 40.3 | 74.9 |

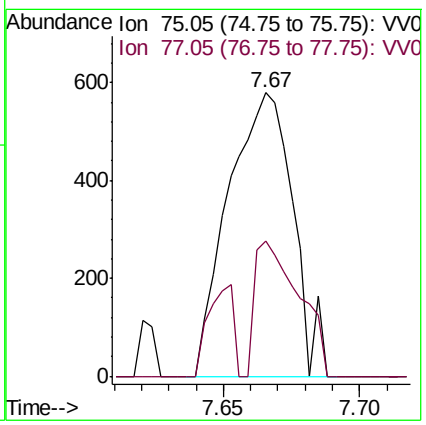


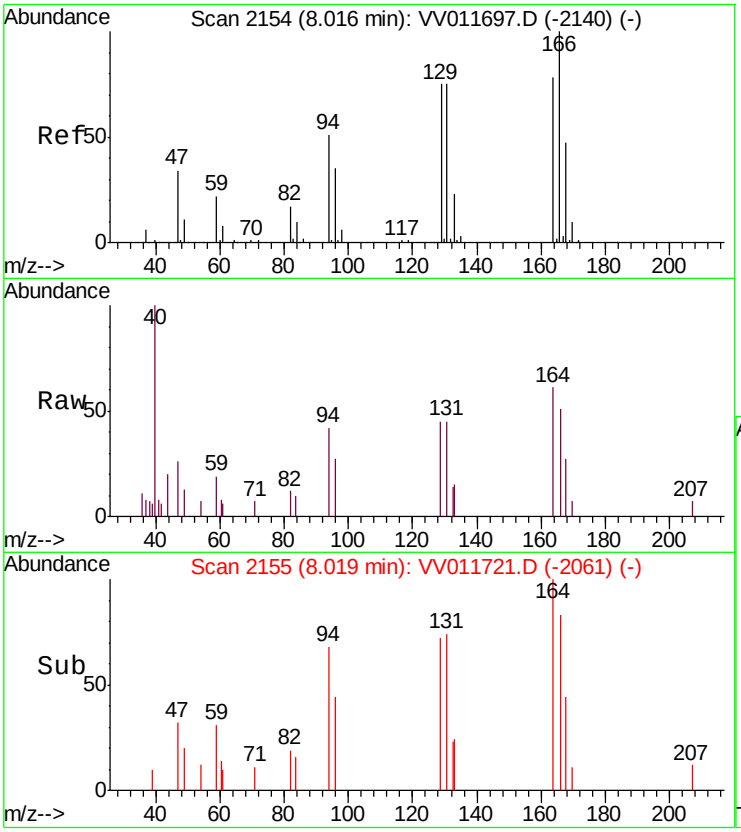




#44
trans-1,3-Dichloropropene
Concen: 0.094 ug/L
RT: 7.67 min Scan# 2045
Delta R.T. -0.03 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 75 Resp: 948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 47.5 | 22.7 | 42.1# |



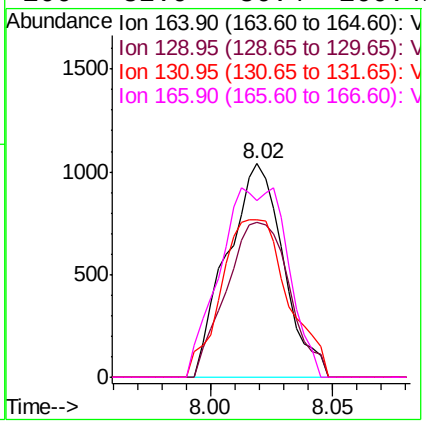


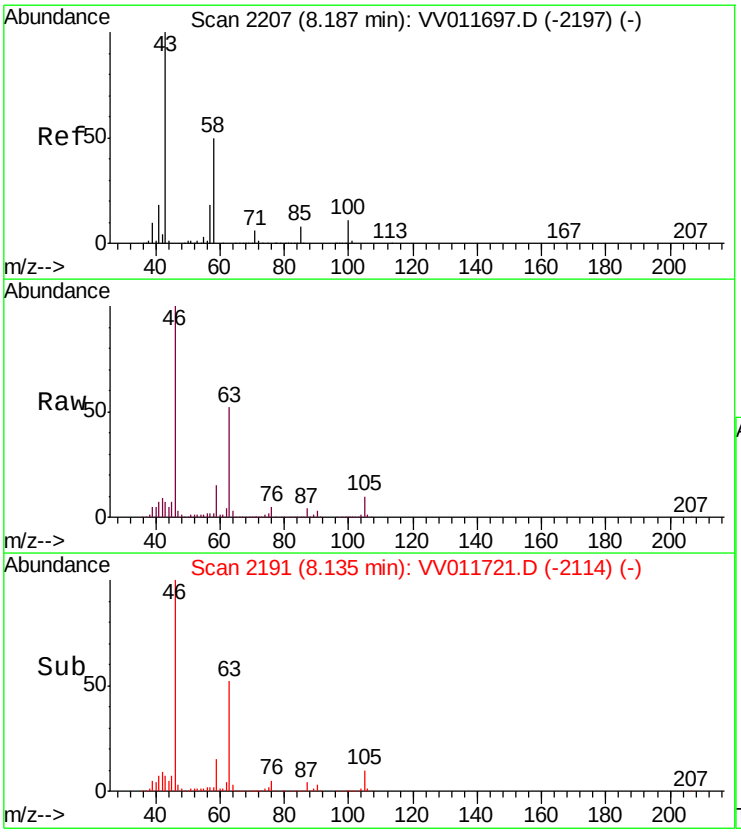

#47
Tetrachloroethene
Concen: 0.205 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion:164 Resp: 1660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 72.4 | 69.7 | 129.5 |
| 131 | 73.8 | 64.6 | 120.0 |
| 166 | 82.9 | 86.4 | 160.4# |

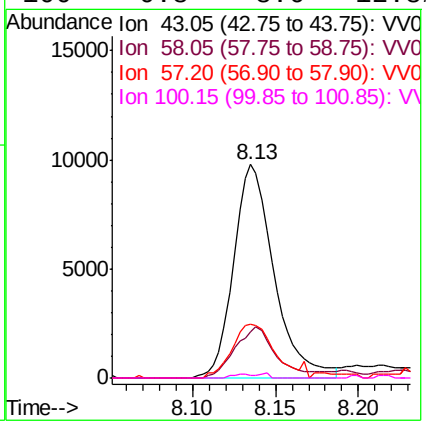


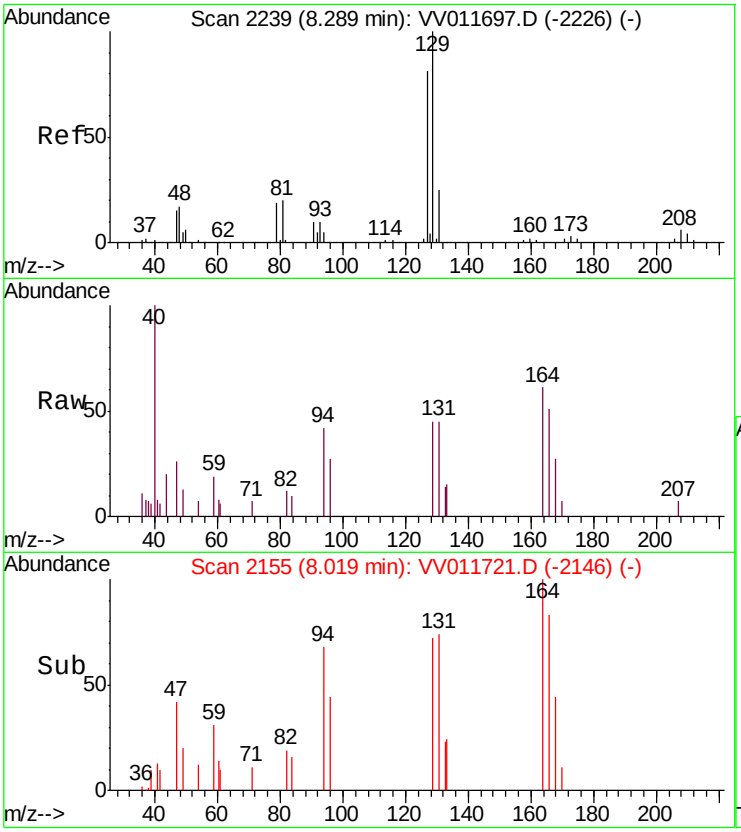




#48
2-Hexanone
Concen: 3.624 ug/L
RT: 8.13 min Scan# 2191
Delta R.T. -0.05 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

Tgt Ion: 43 Resp: 16675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 23.6 | 40.1 | 60.1# |
| 57 | 26.9 | 14.4 | 21.6# |
| 100 | 0.8 | 8.6 | 12.8# |






#49
Dibromochloromethane
Concen: 0.199 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.27 min
Lab File: VV011721.D
Acq: 22 Jun 2019 07:35

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0

Tgt Ion:129 Resp: 1327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 0.0 | 53.5 | 99.5# |