Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062519\

Quantitation Report (Not Reviewed)

Data File : VV011747.D
Acq On : 25 Jun 2019 13:57
Operator : SY/MD
Sample : K3462-01DL 10000X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BFCL0DL

Quant Time: Jun 26 01:44:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 26 01:40:21 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.66 | 114 | 161008 | 5.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 8.89 | 117 | 149503 | 5.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152 | 62229 | 5.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.32 | 65 | 49359 | 4.62 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 40 - 130 | | Recovery = 92.40% | | | |
| 7) Chloroethane-d5 | 1.57 | 69 | 35686 | 4.75 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 130 | | Recovery = 95.00% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.12 | 63 | 81845 | 3.77 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 125 | | Recovery = 75.40% | | | |
| 20) 2-Butanone-d5 | 3.95 | 46 | 152913 | 54.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 40 - 130 | | Recovery = 108.64% | | | |
| 24) Chloroform-d | 4.40 | 84 | 105838 | 5.43 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 108.60% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.08 | 65 | 63062 | 5.38 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 107.60% | | | |
| 32) Benzene-d6 | 5.09 | 84 | 218791 | 5.25 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 125 | | Recovery = 105.00% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.12 | 67 | 68430 | 5.33 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 60 - 140 | | Recovery = 106.60% | | | |
| 41) Toluene-d8 | 7.36 | 98 | 185896 | 4.93 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 70 - 130 | | Recovery = 98.60% | | | |
| 43) trans-1,3-Dichloropropene- | 7.66 | 79 | 20837 | 4.65 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 55 - 130 | | Recovery = 93.00% | | | |
| 46) 2-Hexanone-d5 | 8.14 | 63 | 113336 | 53.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 45 - 130 | | Recovery = 107.62% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84 | 47154 | 5.28 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 65 - 120 | | Recovery = 105.60% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.67 | 152 | 64591 | 5.50 | ug/L | 0.00 |
| Spiked Amount 5.000 | Range 80 - 120 | | Recovery = 110.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Chloromethane | 1.25 | 50 | 2638 | 0.174 | ug/L | 87 |
| 8) Chloroethane | 1.59 | 64 | 991 | 0.127 | ug/L | 84 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 2075 | 0.190 | ug/L # | 78 |
| 12) 1,1-Dichloroethene | 2.13 | 96 | 9960 | 1.000 | ug/L # | 1 |
| 16) Methylene chloride | 2.53 | 84 | 3997 | 0.360 | ug/L | 93 |
| 19) 1,1-Dichloroethane | 3.22 | 63 | 14262 | 0.612 | ug/L | 94 |
| 22) cis-1,2-Dichloroethene | 3.96 | 96 | 26536 | 2.061 | ug/L | 99 |
| 25) Chloroform | 4.42 | 83 | 3068 | 0.120 | ug/L | 93 |
| 29) 1,1,1-Trichloroethane | 4.65 | 97 | 154040 | 8.002 | ug/L | 99 |
| 31) Carbon tetrachloride | 4.65 | 117 | 18889 | 1.161 | ug/L | 98 |
| 34) Trichloroethene | 5.96 | 95 | 5212 | 0.397 | ug/L | 95 |
| 35) Methylcyclohexane | 6.12 | 83 | 16012 | 0.755 | ug/L # | 15 |
| 37) 1,2-Dichloropropane | 6.12 | 63 | 8862 | 0.704 | ug/L # | 88 |
| 39) cis-1,3-Dichloropropene | 7.03 | 75 | 1972 | 0.119 | ug/L # | 82 |
| 42) Toluene | 7.43 | 91 | 36935 | 0.713 | ug/L | 99 |
| 44) trans-1,3-Dichloropropene | 7.66 | 75 | 1193 | 0.098 | ug/L | 98 |
| 47) Tetrachloroethene | 8.02 | 164 | 1512 | 0.154 | ug/L | 85 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062519\

Quantitation Report (Not Reviewed)

Data File : VV011747.D
Acq On : 25 Jun 2019 13:57
Operator : SY/MD
Sample : K3462-01DL 10000X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BFCL0DL

Quant Time: Jun 26 01:44:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 26 01:40:21 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 48) 2-Hexanone | 8.14 | 43 | 15601 | 2.811 | ug/L | # | 70 |
| 49) Dibromochloromethane | 8.02 | 129 | 1676 | 0.209 | ug/L | # | 11 |

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

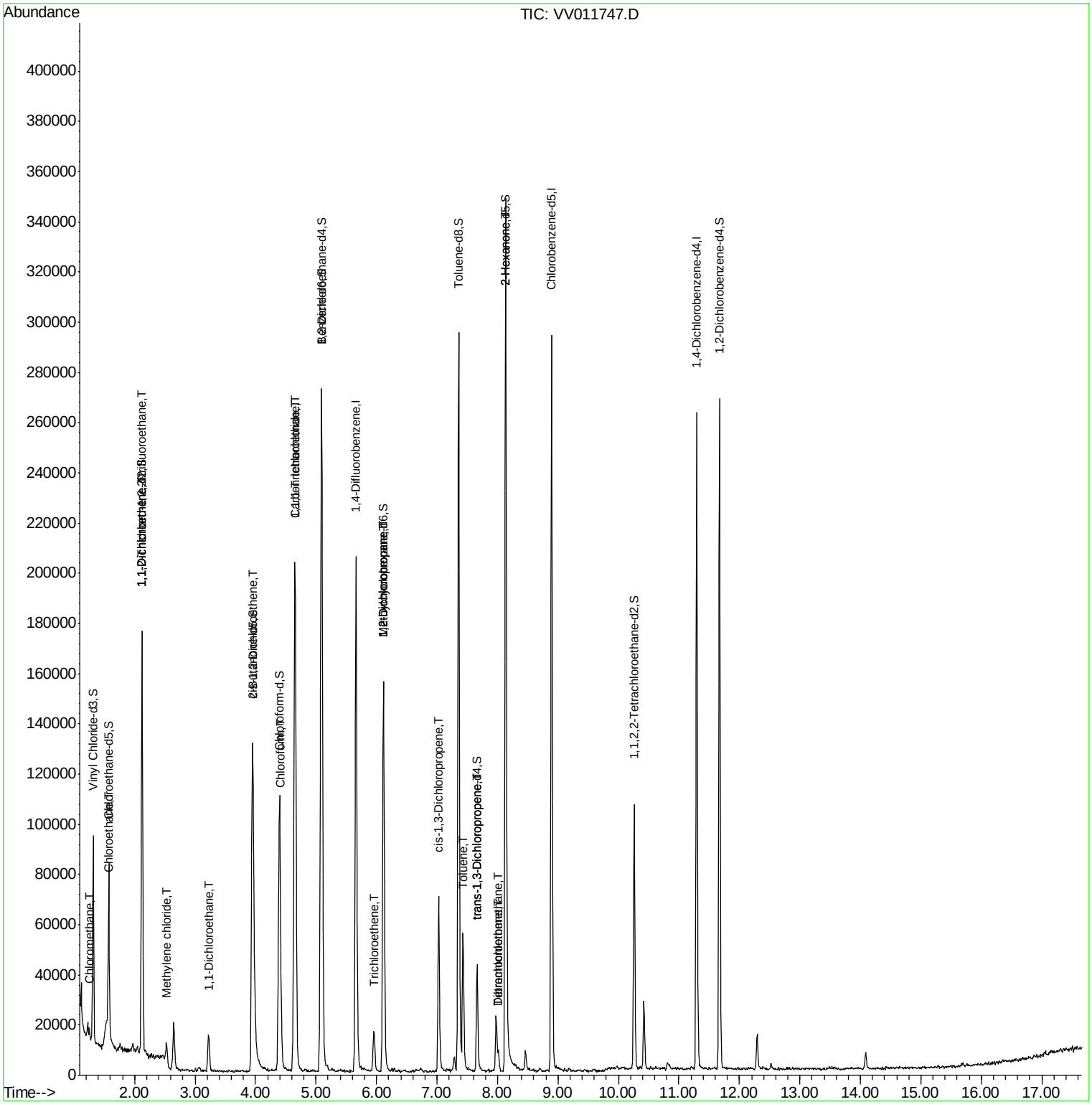
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062519\

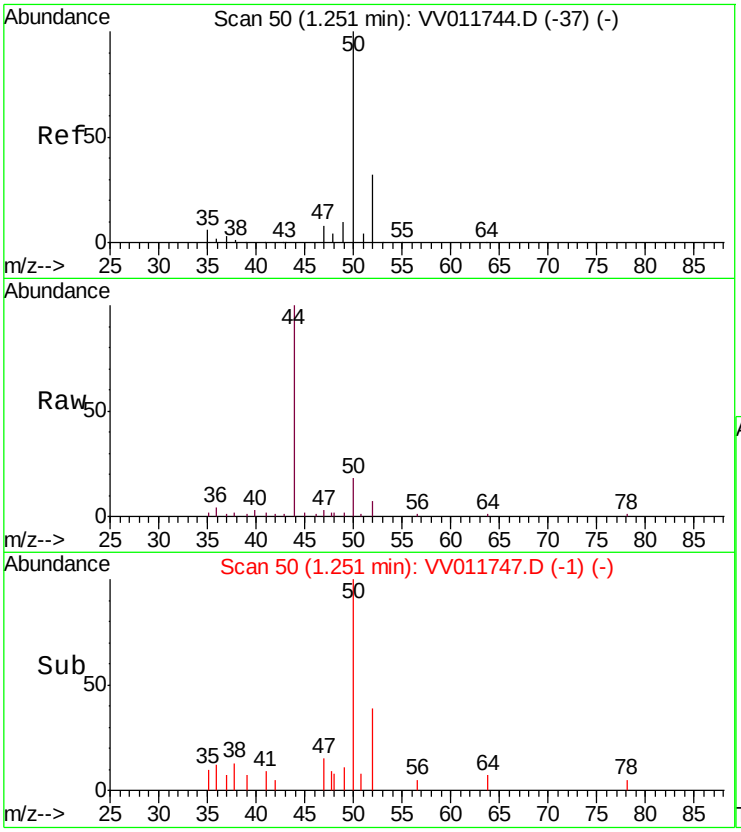
Quantitation Report (Not Reviewed)

Data File : VV011747.D
Acq On : 25 Jun 2019 13:57
Operator : SY/MD
Sample : K3462-01DL 10000X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Quant Time: Jun 26 01:44:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 26 01:40:21 2019
Response via : Initial Calibration



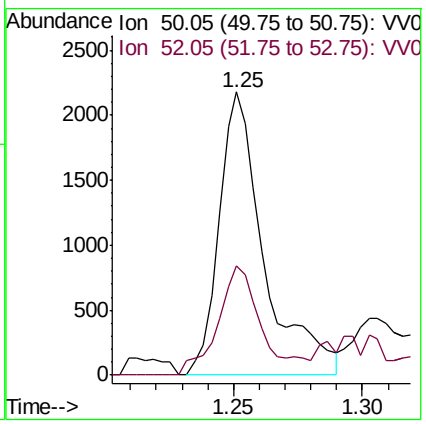


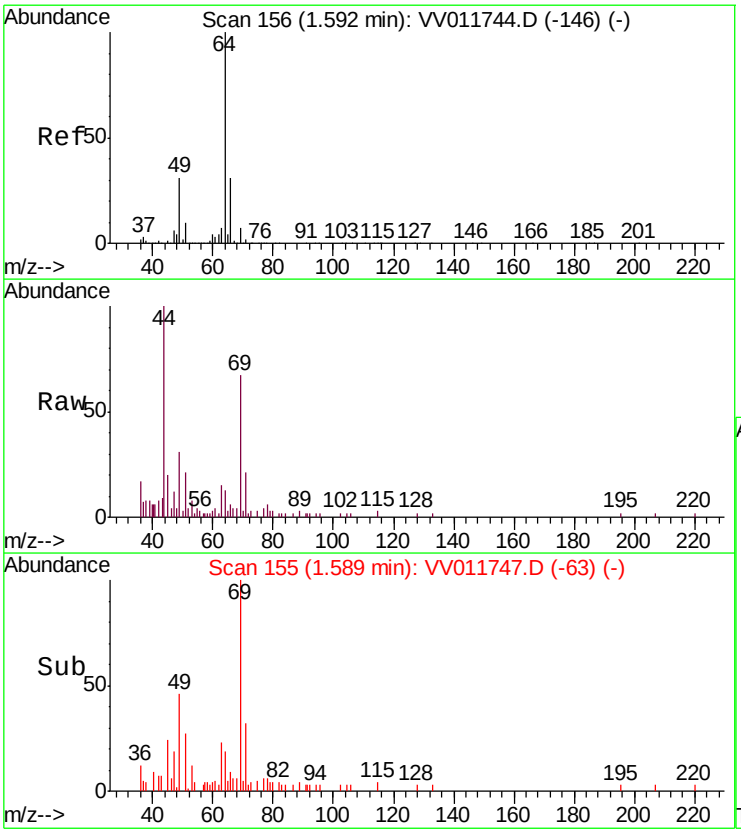

#3
Chloromethane
Concen: 0.174 ug/L
RT: 1.25 min Scan# 50
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion: 50 Resp: 2638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 38.6 | 22.0 | 40.8 |

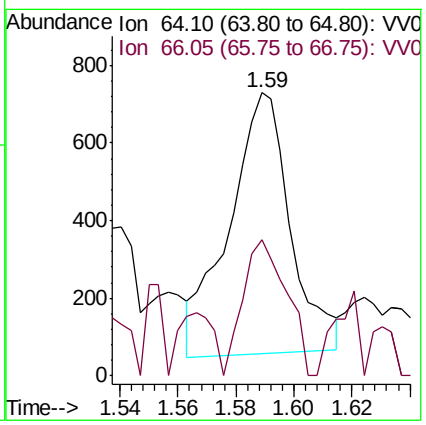


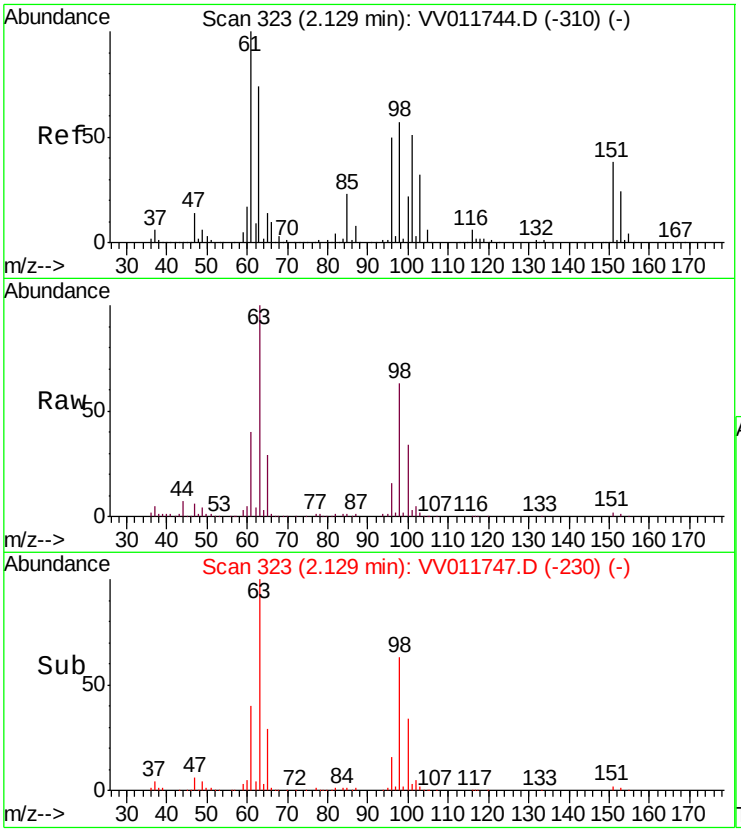




#8
Chloroethane
Concen: 0.127 ug/L
RT: 1.59 min Scan# 155
Delta R.T. -0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 64 Resp: 991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 38.3 | 20.6 | 38.4 |



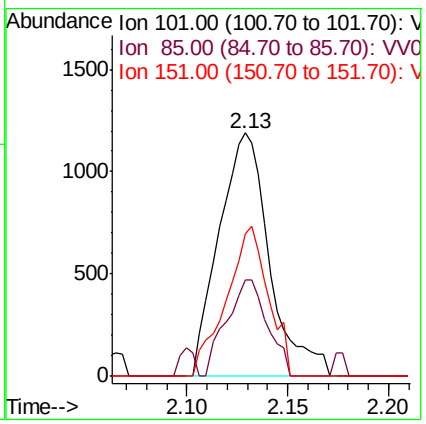


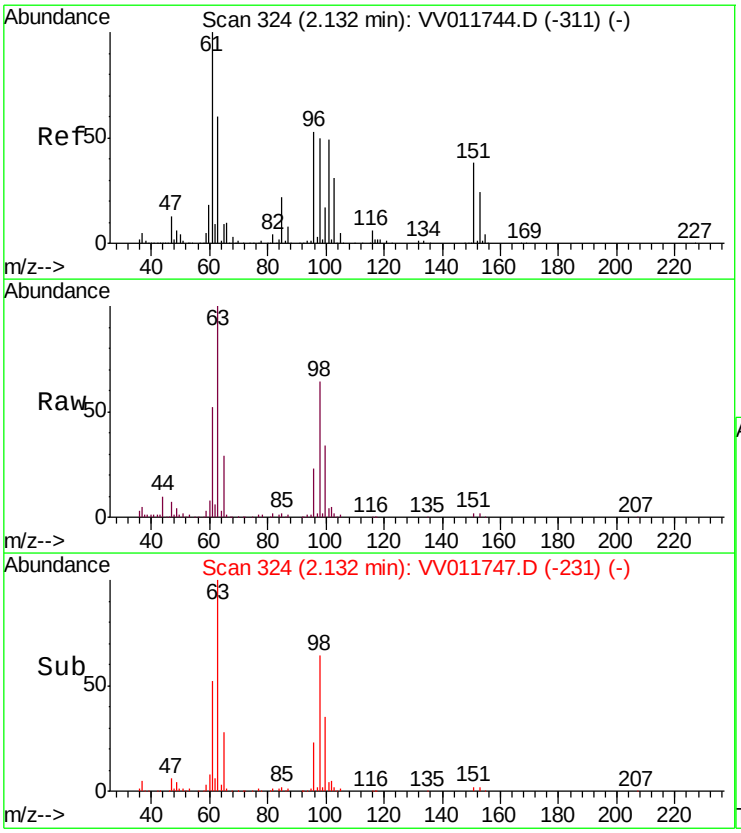

#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.190 ug/L
RT: 2.13 min Scan# 323
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion:101 Resp: 2075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 32.4 | 35.9 | 53.9# |
| 151 | 51.4 | 57.4 | 86.2# |

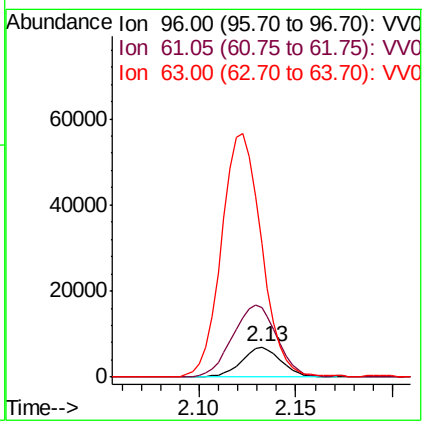


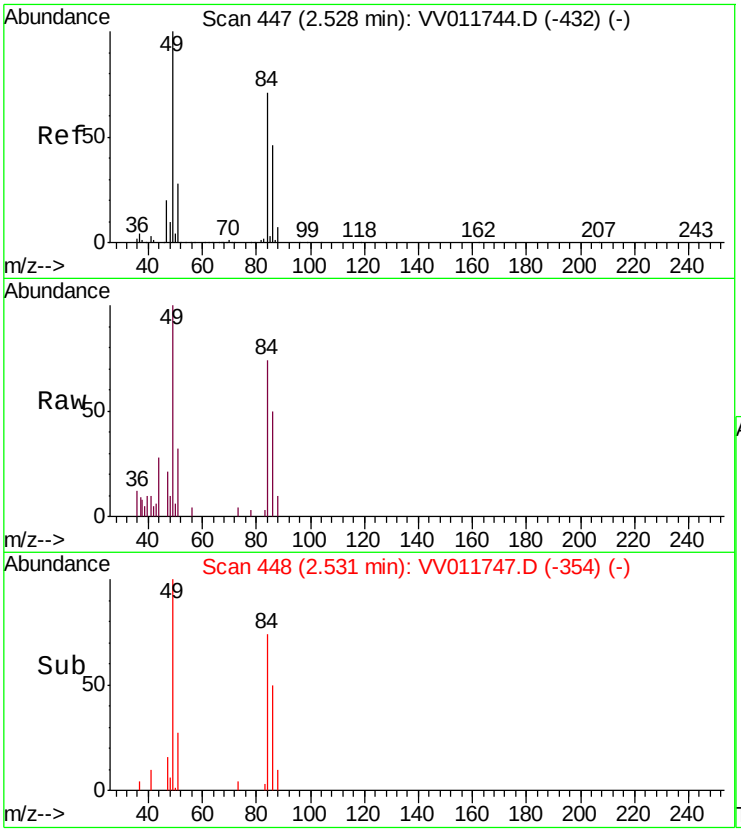




#12
1,1-Dichloroethene
Concen: 1.000 ug/L
RT: 2.13 min Scan# 324
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 96 Resp: 9960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 231.7 | 131.5 | 244.1 |
| 63 | 441.8 | 91.8 | 170.4# |



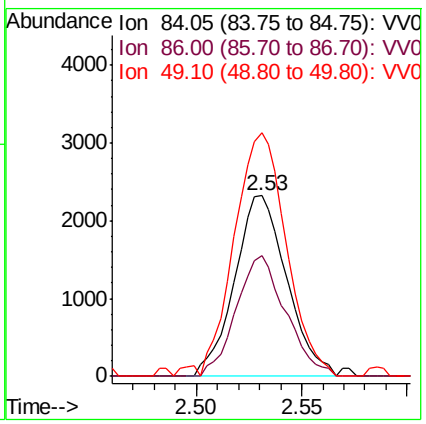


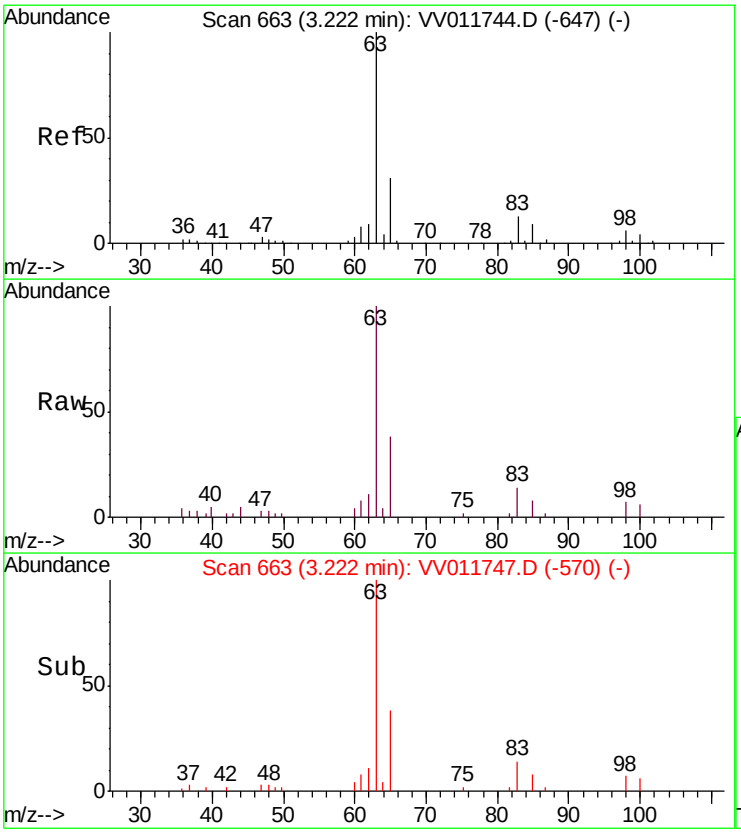

#16
Methylene chloride
Concen: 0.360 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :** MSVOA_V
**ClientSampleId :** BFCL0DL

Tgt Ion: 84 Resp: 3997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 67.0 | 44.9 | 83.5 |
| 49 | 135.0 | 101.4 | 188.2 |

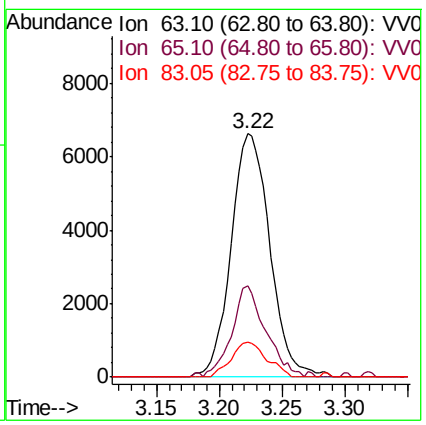


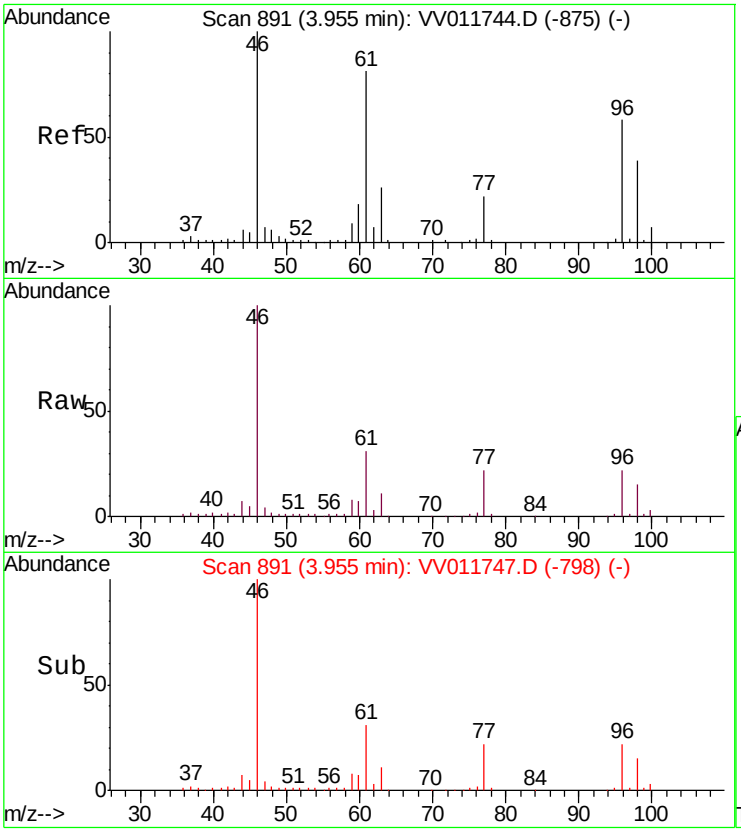




#19
1,1-Dichloroethane
Concen: 0.612 ug/L
RT: 3.22 min Scan# 663
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 63 Resp: 14262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 37.7 | 23.0 | 42.8 |
| 83 | 14.1 | 9.5 | 17.7 |



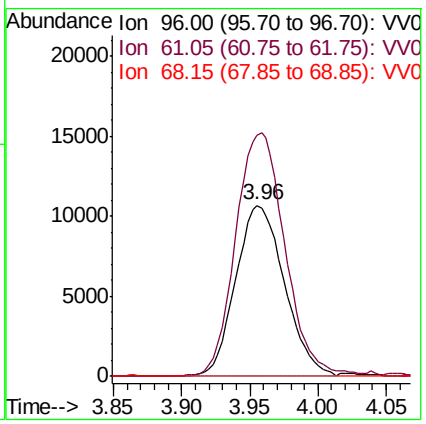


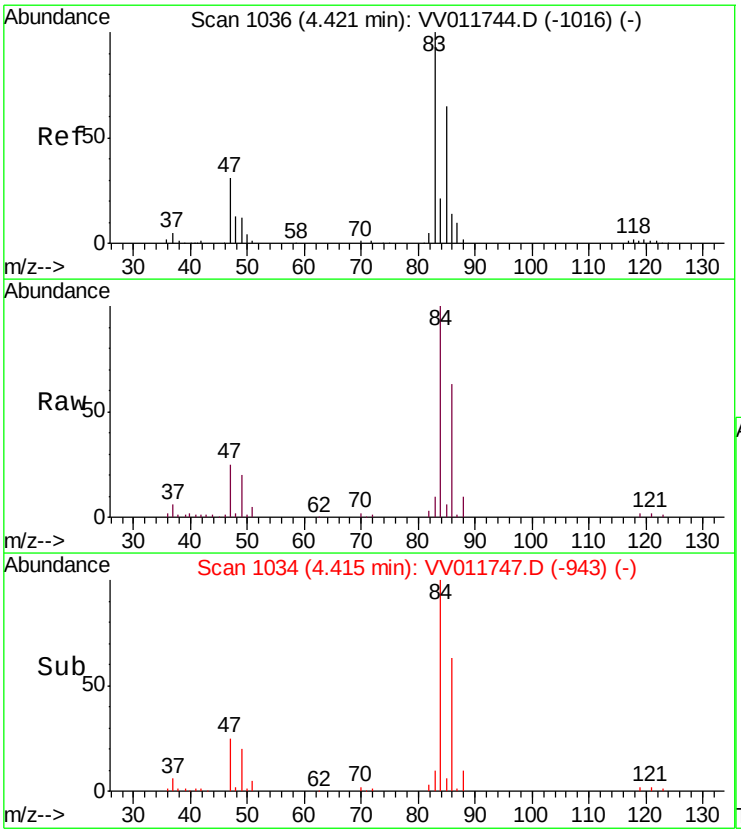

#22
cis-1,2-Dichloroethene
Concen: 2.061 ug/L
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion: 96 Resp: 26536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.2 | 97.9 | 181.7 |
| 68 | 0.0 | 0.0 | 0.0 |

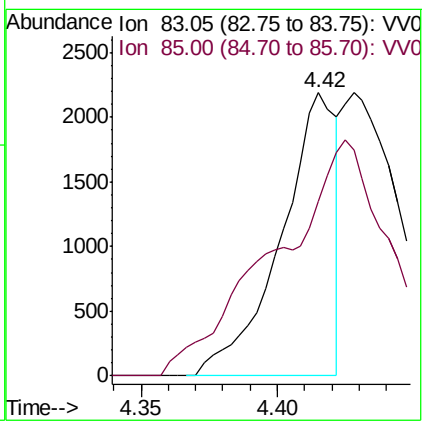


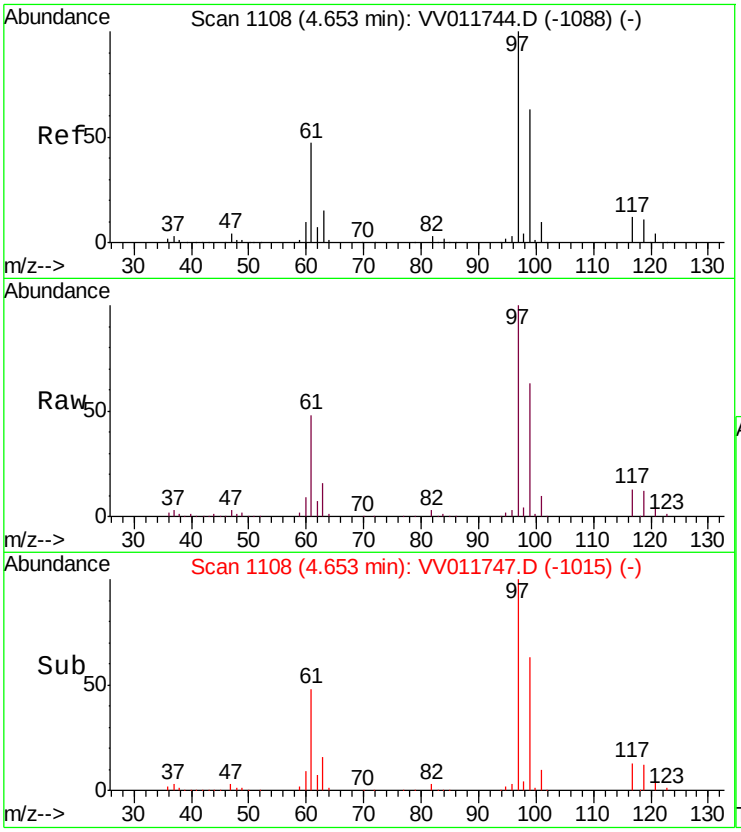




#25
Chloroform
Concen: 0.120 ug/L
RT: 4.42 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 83 Resp: 3068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.7 | 47.0 | 87.2 |



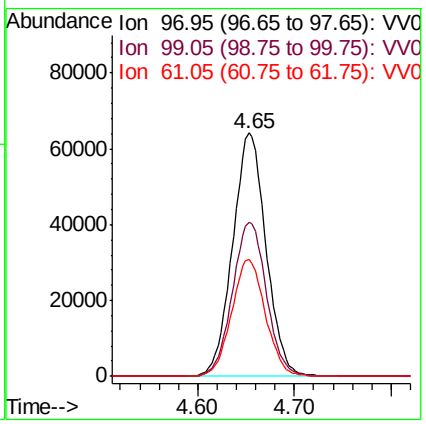


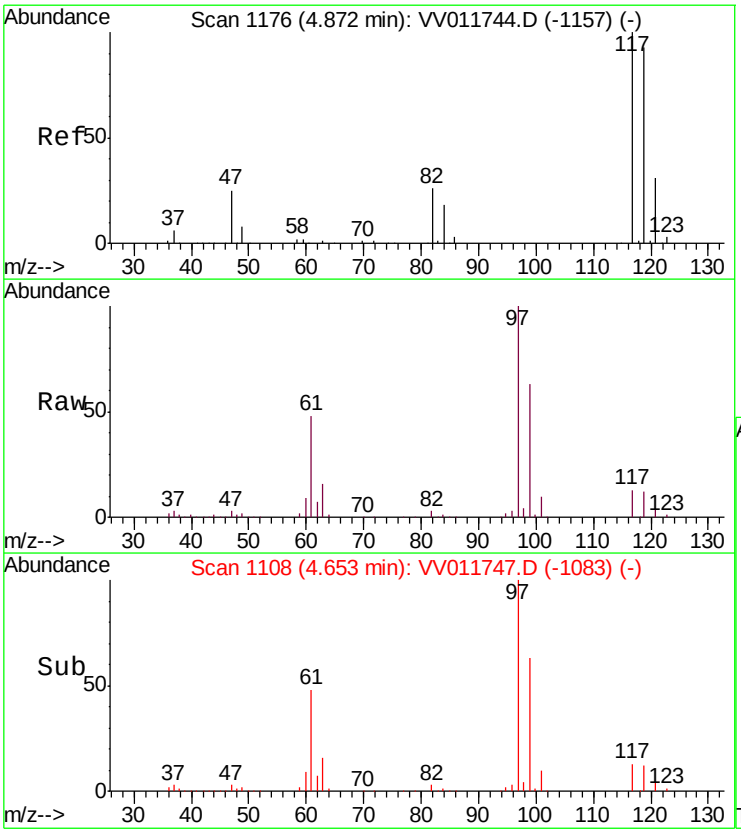

#29
1,1,1-Trichloroethane
Concen: 8.002 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion: 97 Resp: 154040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 48.6 | 39.8 | 59.6 |

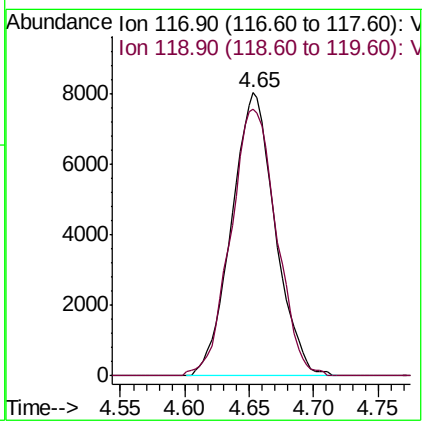


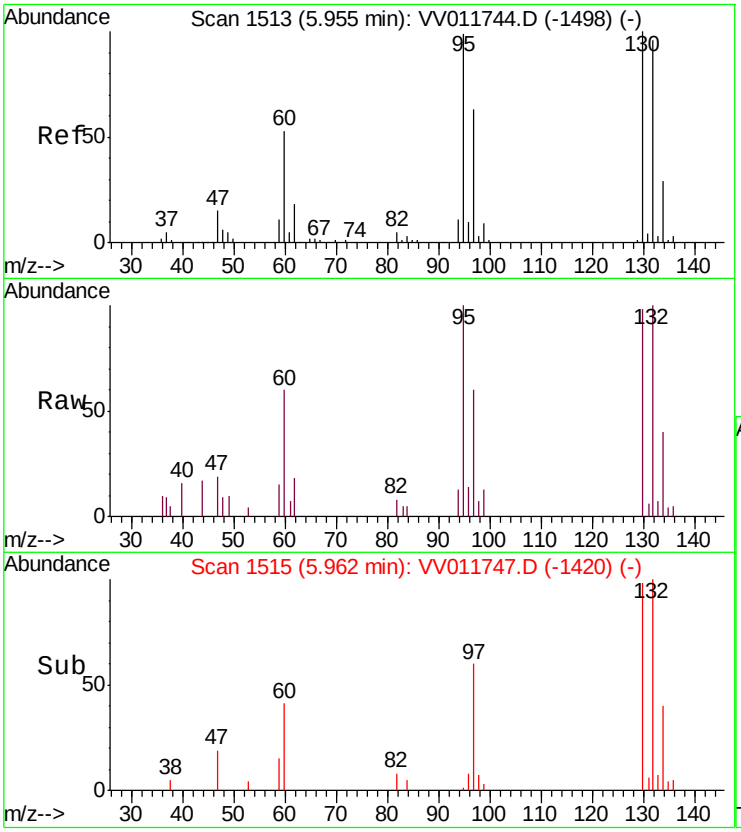




#31
Carbon tetrachloride
Concen: 1.161 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.22 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion:117 Resp: 18889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.8 | 77.1 | 115.7 |



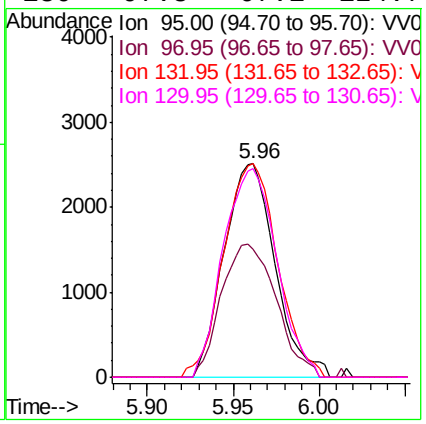


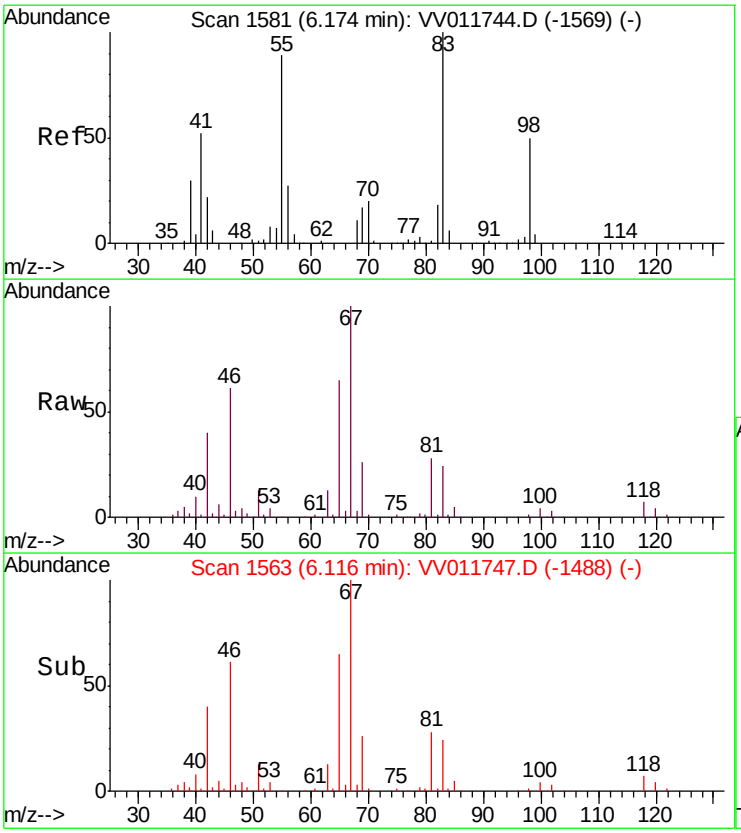

#34
Trichloroethene
Concen: 0.397 ug/L
RT: 5.96 min Scan# 1515
Delta R.T. 0.01 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion: 95 Resp: 5212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 97 | 59.9 | 44.4 | 82.5 |
| 132 | 100.1 | 65.0 | 120.6 |
| 130 | 97.8 | 67.1 | 124.7 |

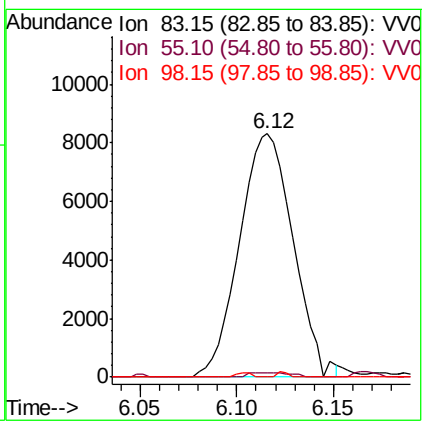


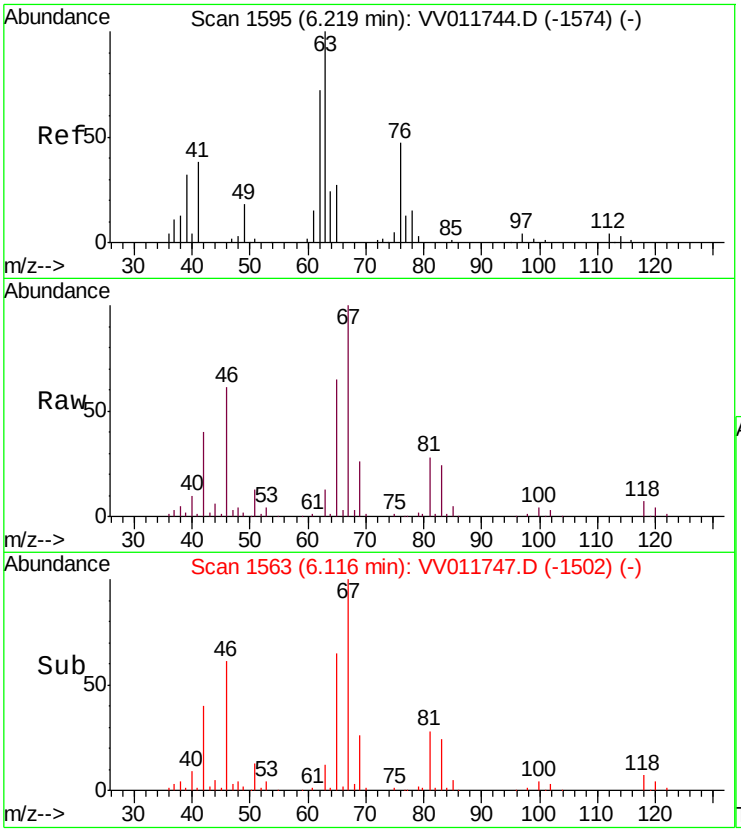




#35
Methylcyclohexane
Concen: 0.755 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.06 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 83 Resp: 16012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 0.9 | 69.4 | 104.2# |
| 98 | 0.4 | 40.2 | 60.4# |



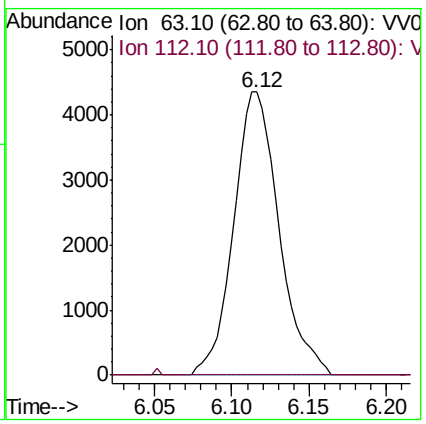


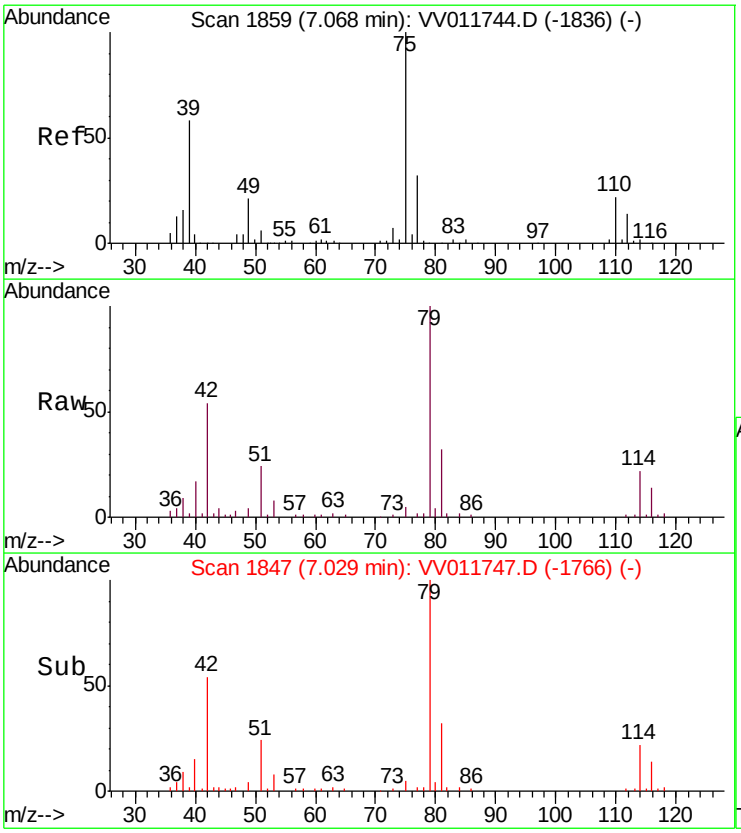

#37
1,2-Dichloropropane
Concen: 0.704 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion: 63 Resp: 8862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 112 | 0.2 | 3.4 | 5.2# |

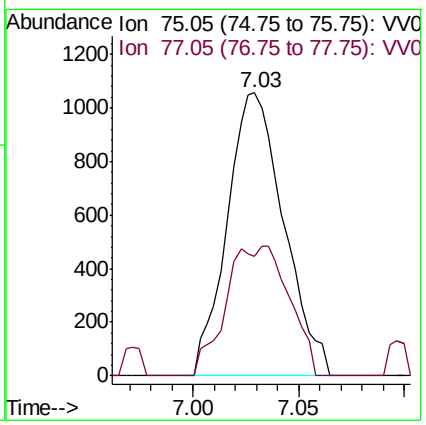


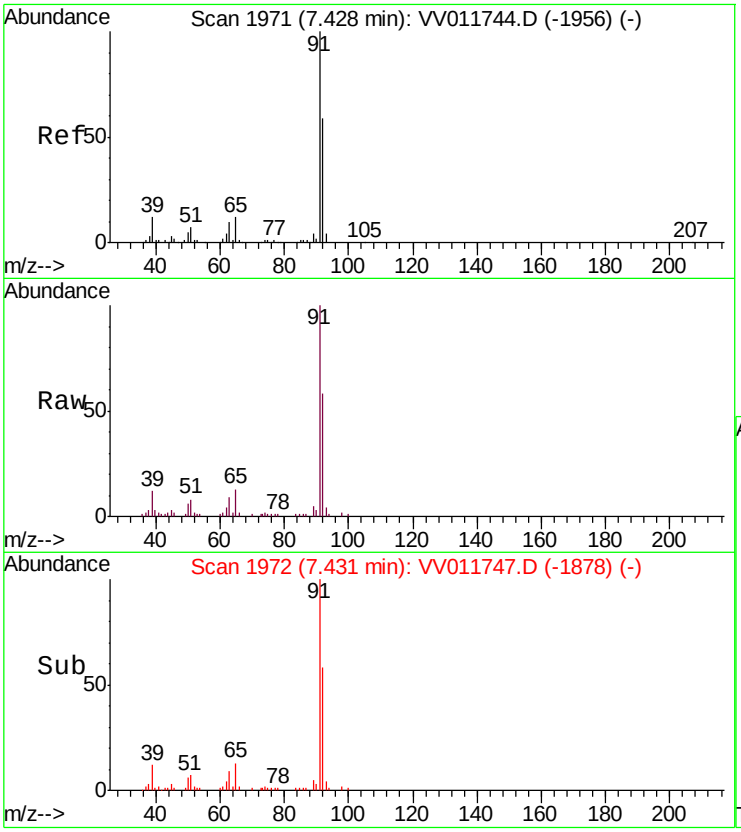




#39
cis-1,3-Dichloropropene
Concen: 0.119 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. -0.04 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 75 Resp: 1972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 42.0 | 22.4 | 41.6# |



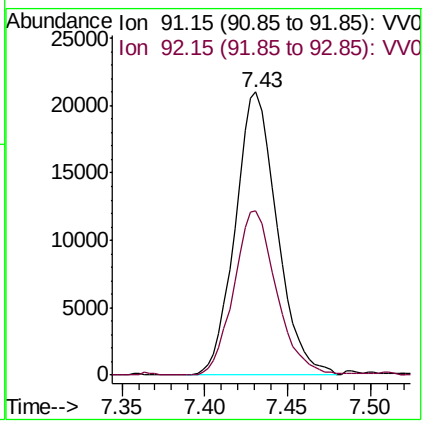


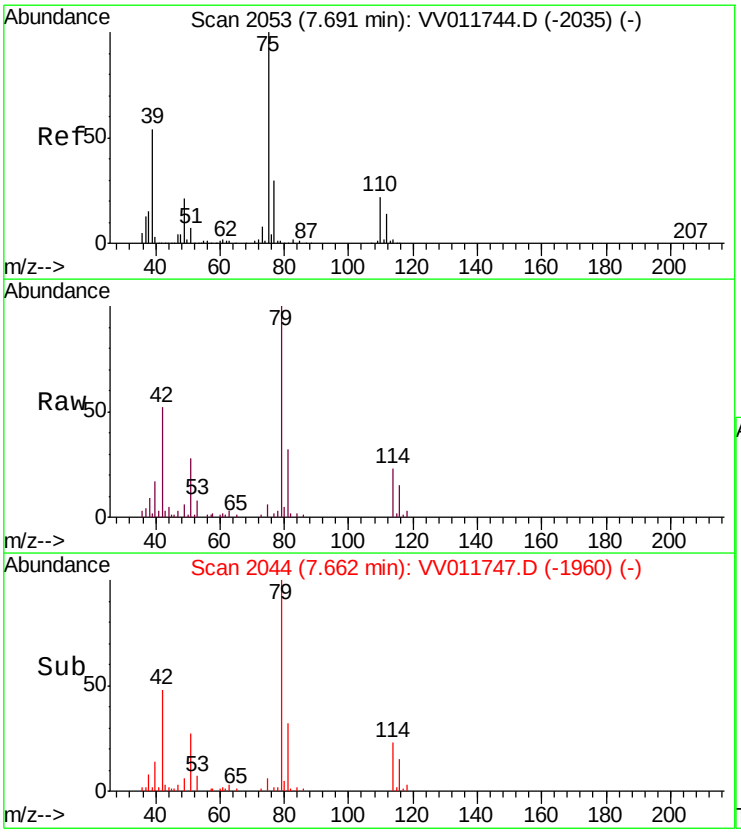

#42
Toluene
Concen: 0.713 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion: 91 Resp: 36935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.2 | 40.3 | 74.9 |

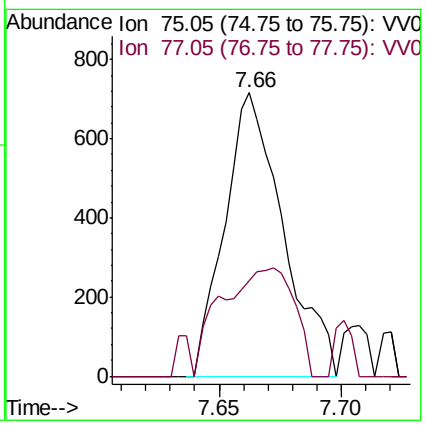


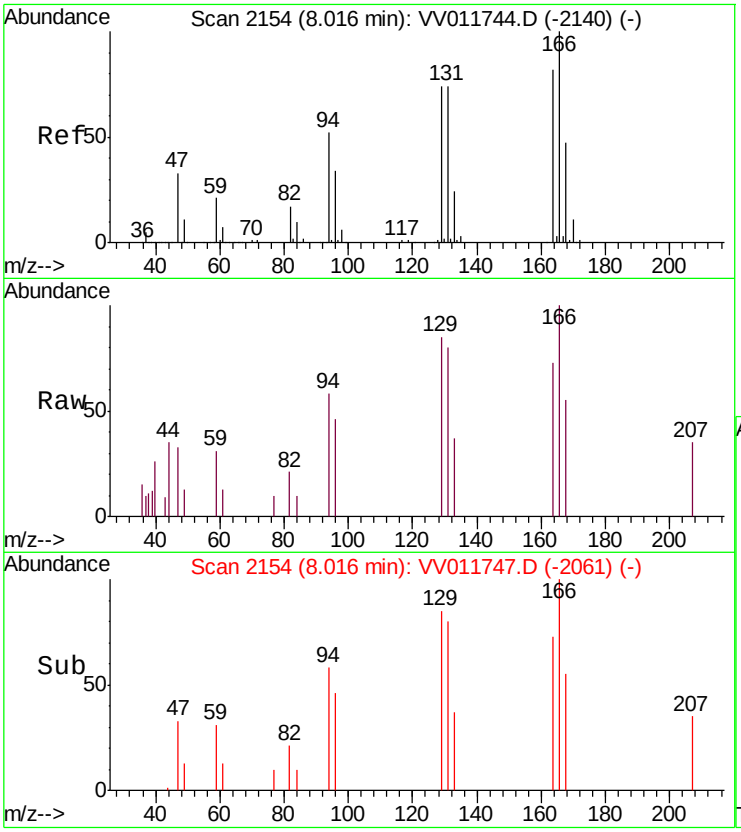




#44
trans-1,3-Dichloropropene
Concen: 0.098 ug/L
RT: 7.66 min Scan# 2044
Delta R.T. -0.03 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 75 Resp: 1193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.7 | 22.7 | 42.1 |



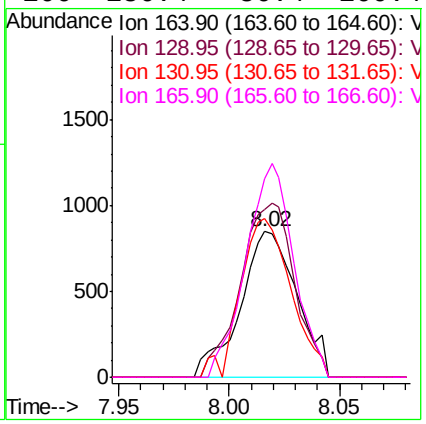


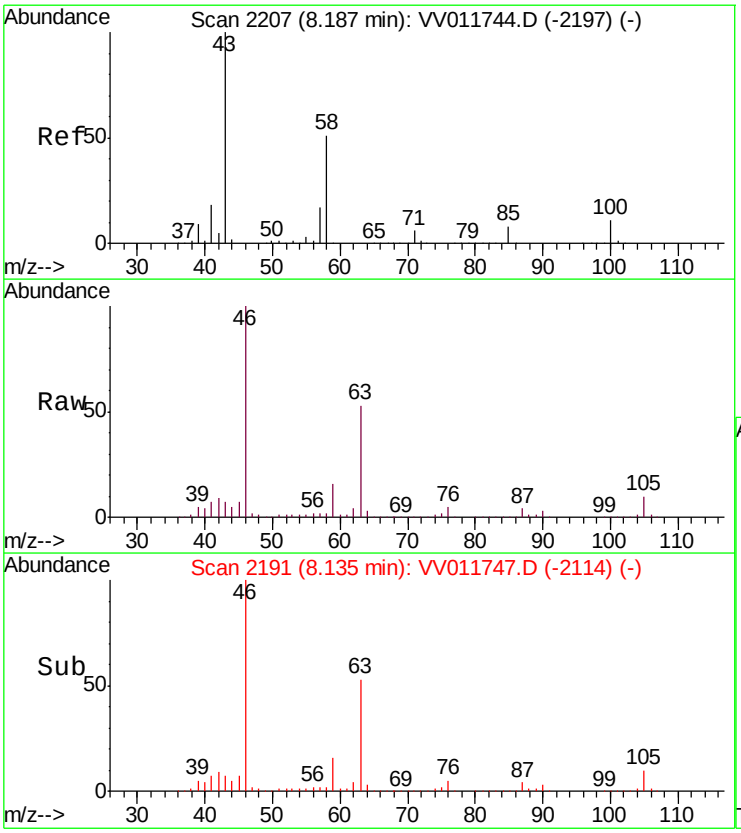

#47
Tetrachloroethene
Concen: 0.154 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion:164 Resp: 1512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 115.6 | 69.7 | 129.5 |
| 131 | 109.4 | 64.6 | 120.0 |
| 166 | 136.4 | 86.4 | 160.4 |

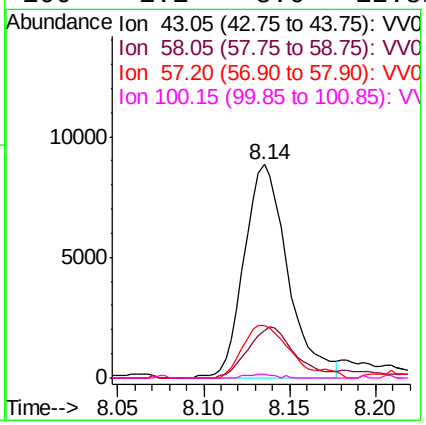


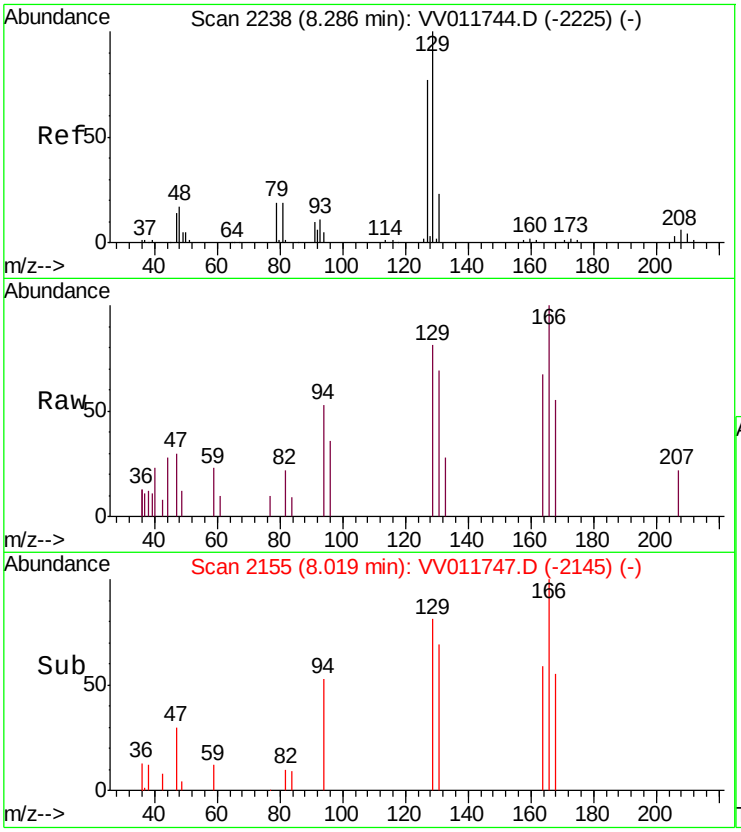




#48
2-Hexanone
Concen: 2.811 ug/L
RT: 8.14 min Scan# 2191
Delta R.T. -0.05 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

Tgt Ion: 43 Resp: 15601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.4 | 40.1 | 60.1# |
| 57 | 25.4 | 14.4 | 21.6# |
| 100 | 1.1 | 8.6 | 12.8# |






#49
Dibromochloromethane
Concen: 0.209 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.27 min
Lab File: VV011747.D
Acq: 25 Jun 2019 13:57

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFCL0DL

Tgt Ion:129 Resp: 1676

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