Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD012720\
Data File : VD064963.D
Acq On : 27 Jan 2020 14:59
Operator : VA/SY
Sample : L1010-10RE
Misc : 5.09G/5.00ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Quant Time: Jan 27 15:36:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 7.98 | 168 | 9766 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.87 | 114 | 15517 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.65 | 117 | 14510 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152 | 8285 | 50.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.33 | 65 | 6993 | 74.65 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 149.30% | | | |
| 35) Dibromofluoromethane | 7.91 | 113 | 5588 | 57.31 | ug/l | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 114.62% | | | |
| 50) Toluene-d8 | 10.34 | 98 | 18453 | 49.03 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 98.06% | | | |
| 62) 4-Bromofluorobenzene | 12.64 | 95 | 6518 | 56.59 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 113.18% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Chloromethane | 2.22 | 50 | 352 | 3.26 | ug/l # | 2 |
| 4) Vinyl Chloride | 2.39 | 62 | 129 | 1.04 | ug/l # | 43 |
| 5) Bromomethane | 2.80 | 94 | 349 | 4.19 | ug/l # | 1 |
| 10) Methyl Iodide | 4.30 | 142 | 160 | 1.69 | ug/l # | 39 |
| 16) Acetone | 4.16 | 43 | 174 | 20.11 | ug/l # | 80 |
| 18) Methyl Acetate | 4.91 | 43 | 57 | 1.30 | ug/l # | 51 |
| 21) trans-1,2-Dichloroethene | 5.47 | 96 | 210 | 2.14 | ug/l # | 1 |
| 25) 2-Butanone | 7.32 | 43 | 58 | 2.29 | ug/l # | 49 |
| 29) Tetrahydrofuran | 7.57 | 42 | 85 | 5.44 | ug/l # | 34 |
| 38) Carbon Tetrachloride | 7.97 | 117 | 1208 | 7.64 | ug/l # | 14 |
| 41) Methacrylonitrile | 7.55 | 41 | 166 | 4.99 | ug/l # | 24 |
| 48) Methyl methacrylate | 9.48 | 41 | 111 | 2.05 | ug/l # | 13 |
| 49) 1,4-Dioxane | 9.57 | 88 | 95 | 150.18 | ug/l # | 27 |
| 51) 4-Methyl-2-Pentanone | 10.23 | 43 | 420 | 7.15 | ug/l # | 37 |
| 59) 2-Hexanone | 11.08 | 43 | 142 | 3.50 | ug/l # | 25 |
| 74) N-amyl acetate | 12.31 | 43 | 149 | 1.18 | ug/l # | 22 |
| 76) 1,2,3-Trichloropropane | 12.64 | 75 | 3567 | 51.87 | ug/l # | 100 |
| 78) n-propylbenzene | 12.83 | 91 | 739 | 1.10 | ug/l # | 52 |
| 79) 2-Chlorotoluene | 13.01 | 91 | 466 | 1.26 | ug/l | 71 |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75 | 3567 | 110.76 | ug/l # | 9 |
| 82) 4-Chlorotoluene | 13.01 | 91 | 466 | 1.19 | ug/l | 71 |
| 88) 1,4-Dichlorobenzene | 13.60 | 146 | 299 | 1.13 | ug/l # | 47 |
| 92) 1,2-Dibromo-3-Chloropropan | 14.70 | 75 | 54 | 3.55 | ug/l # | 1 |
| 95) Naphthalene | 15.42 | 128 | 355 | 1.41 | ug/l # | 68 |

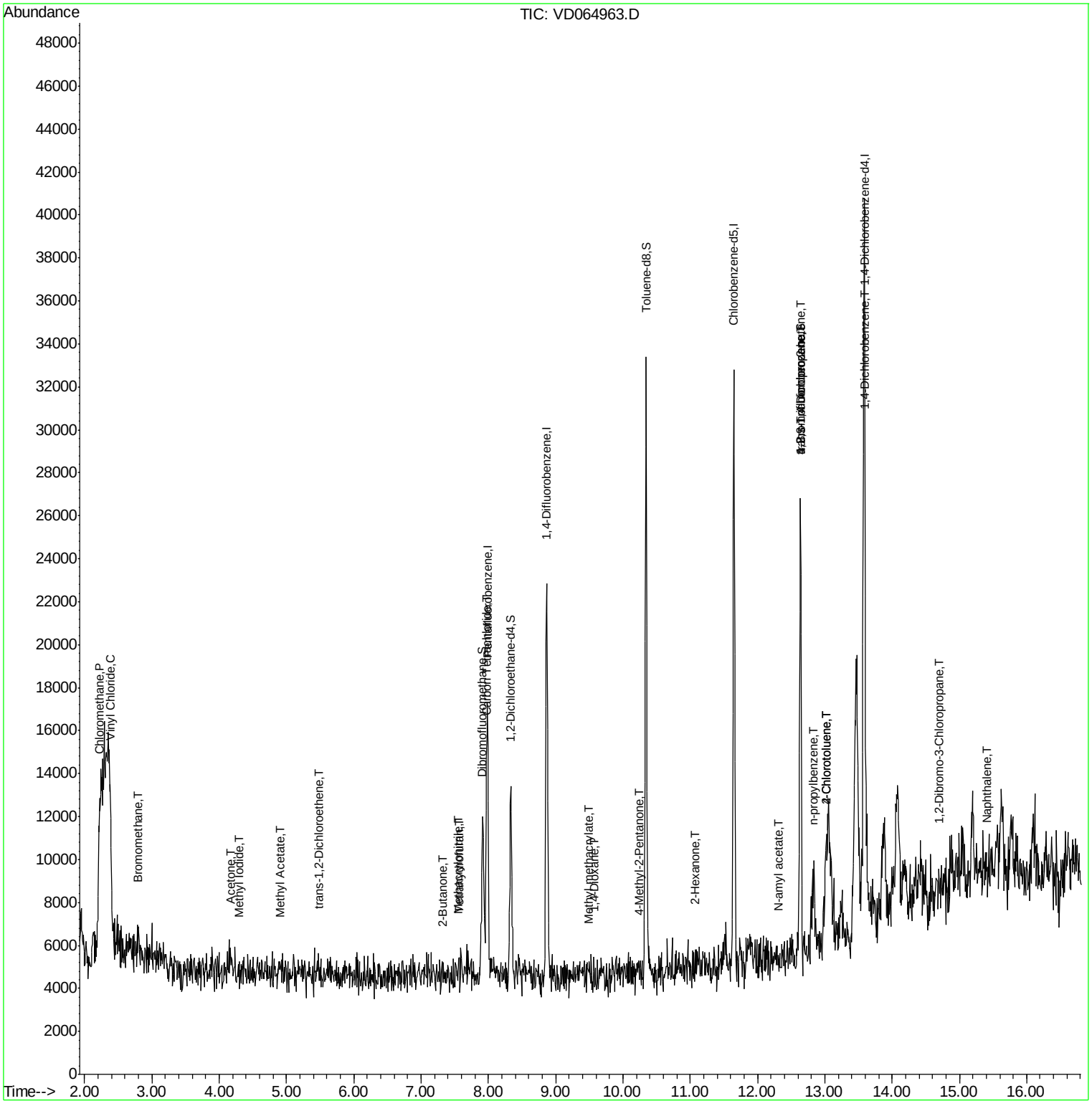
(#) = qualifier out of range (m) = manual integration (+) = signals summed

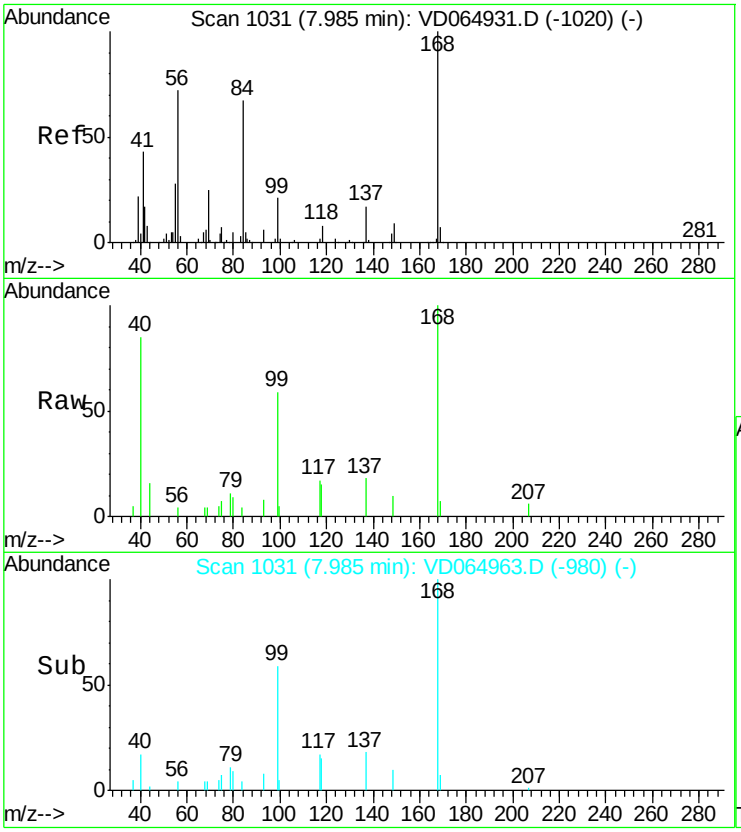
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD012720\
Data File : VD064963.D
Acq On : 27 Jan 2020 14:59
Operator : VA/SY
Sample : L1010-10RE
Misc : 5.09G/5.00ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
OK-01-012420RE

Quant Time: Jan 27 15:36:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration



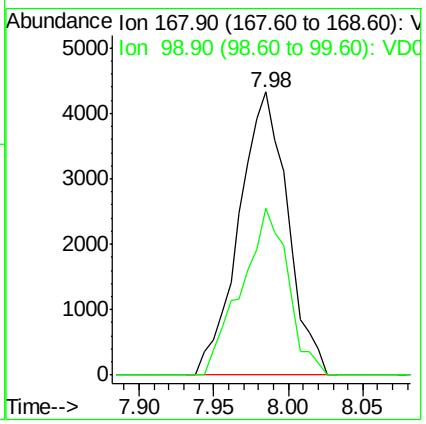


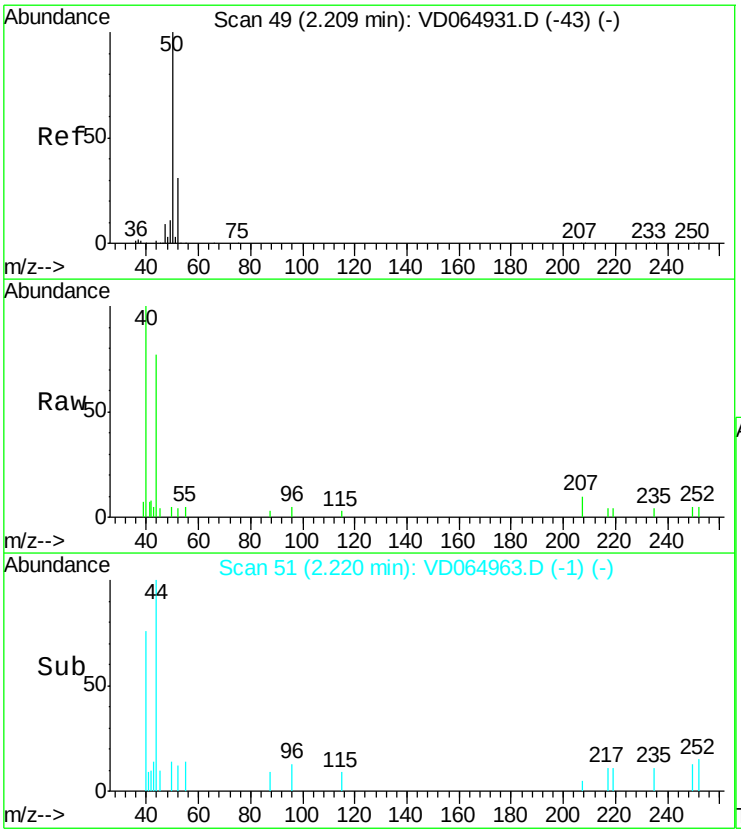

#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion:168 Resp: 9766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.1 | 43.3 | 64.9 |

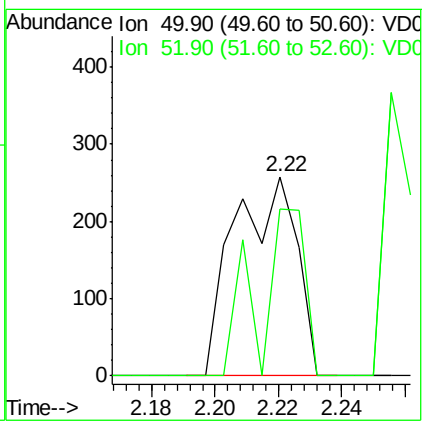


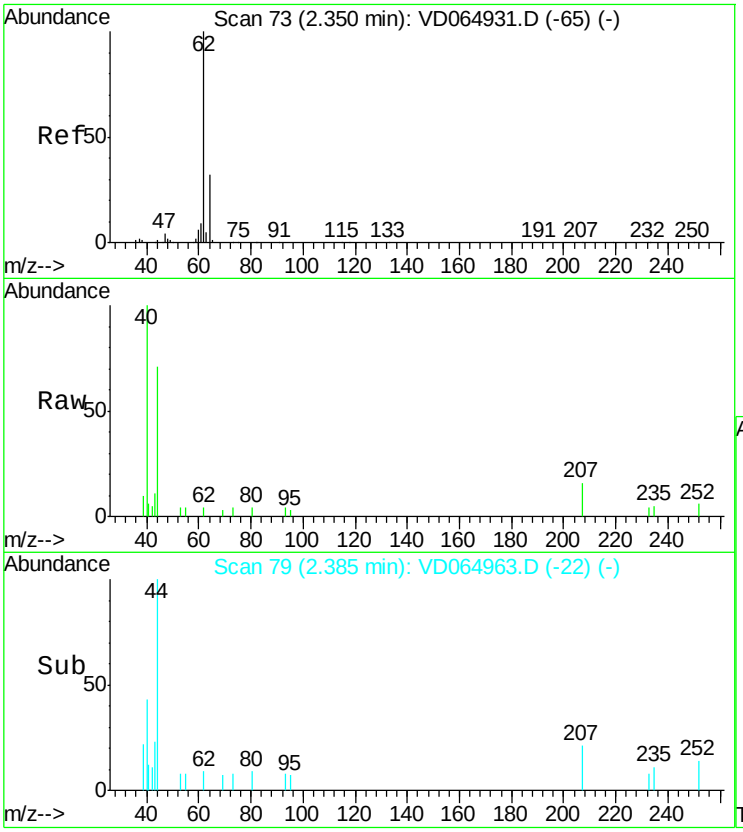




#3
Chloromethane
Concen: 3.26 ug/l
RT: 2.22 min Scan# 51
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 50 Resp: 352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 84.1 | 24.6 | 36.8# |



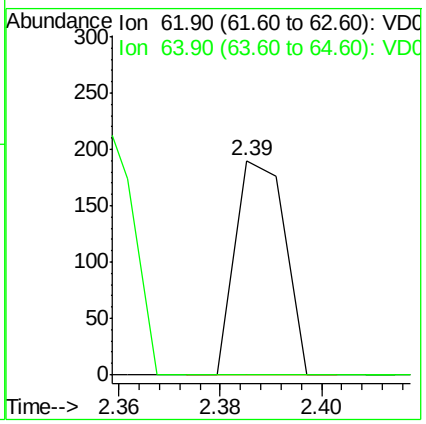


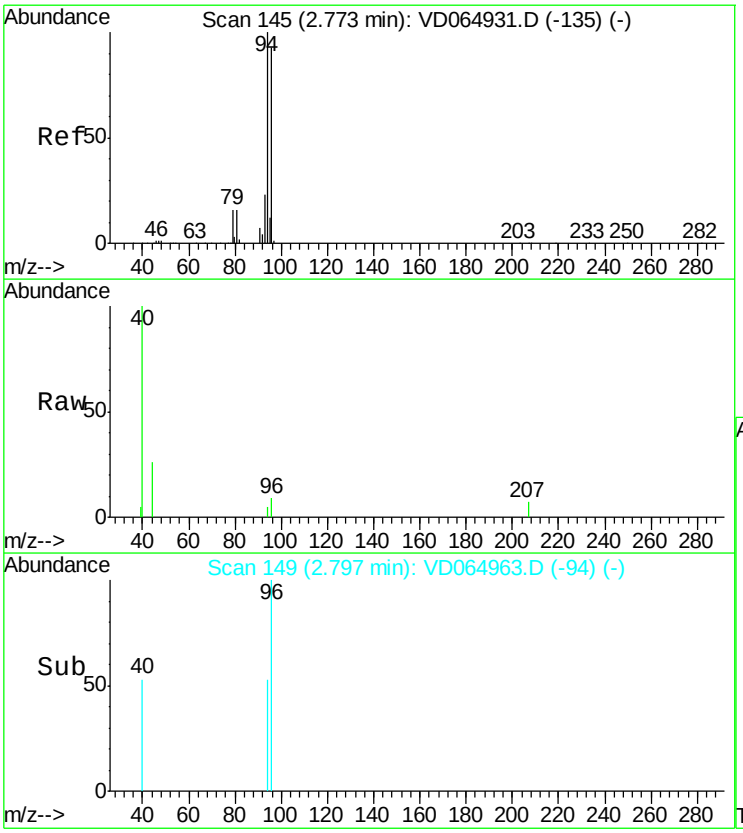

#4
Vinyl Chloride
Concen: 1.04 ug/l
RT: 2.39 min Scan# 79
Delta R.T. 0.04 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 62 Resp: 129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 0.0 | 25.6 | 38.4# |

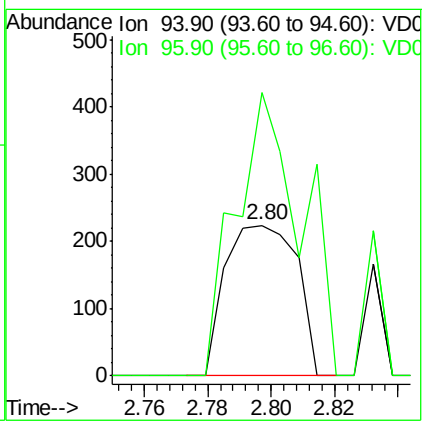


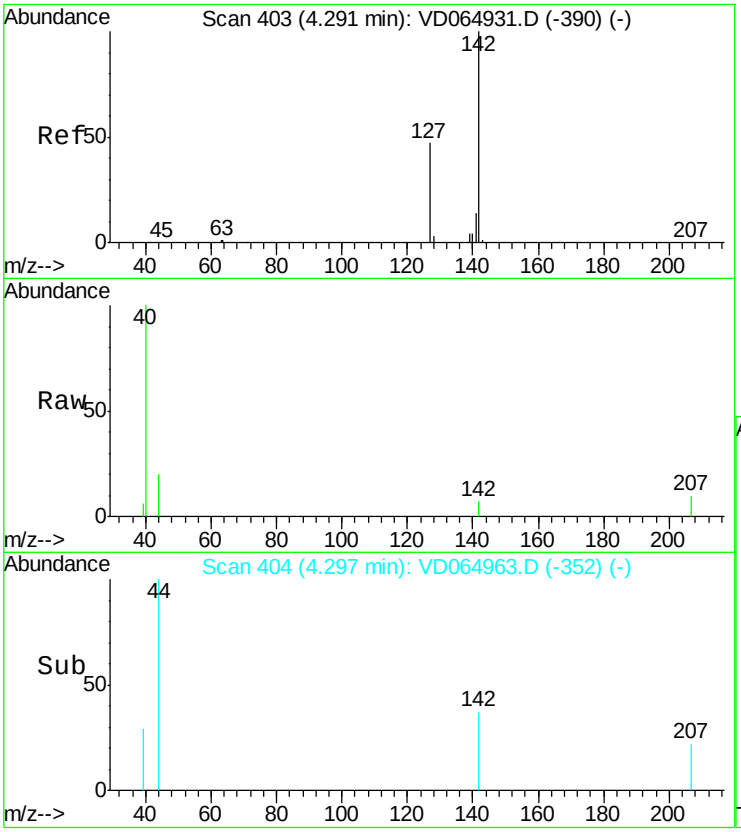




#5
Bromomethane
Concen: 4.19 ug/l
RT: 2.80 min Scan# 149
Delta R.T. 0.02 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 94 Resp: 349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 187.9 | 74.6 | 111.8# |



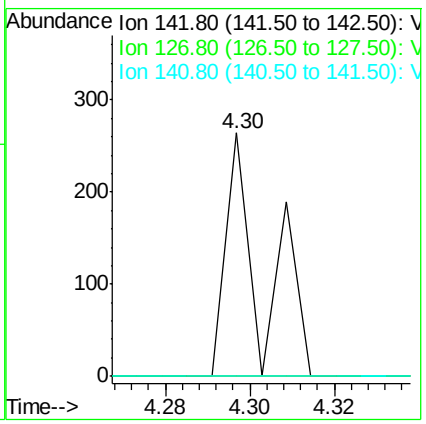


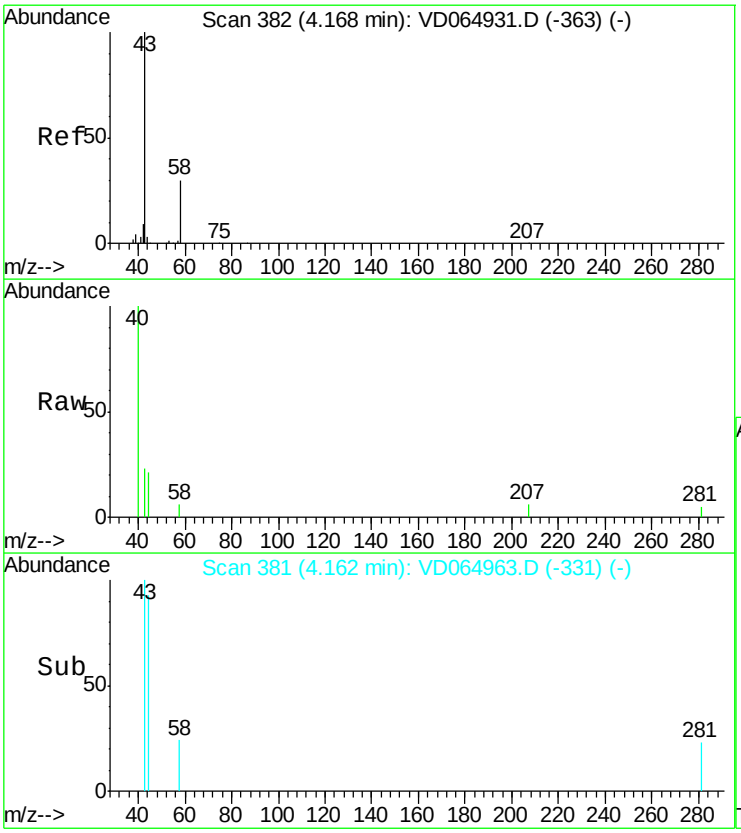

#10
Methyl Iodide
Concen: 1.69 ug/l
RT: 4.30 min Scan# 404
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion:142 Resp: 160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 0.0 | 36.2 | 54.2# |
| 141 | 0.0 | 11.6 | 17.4# |

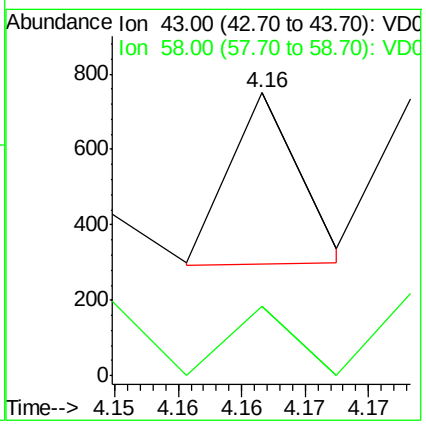


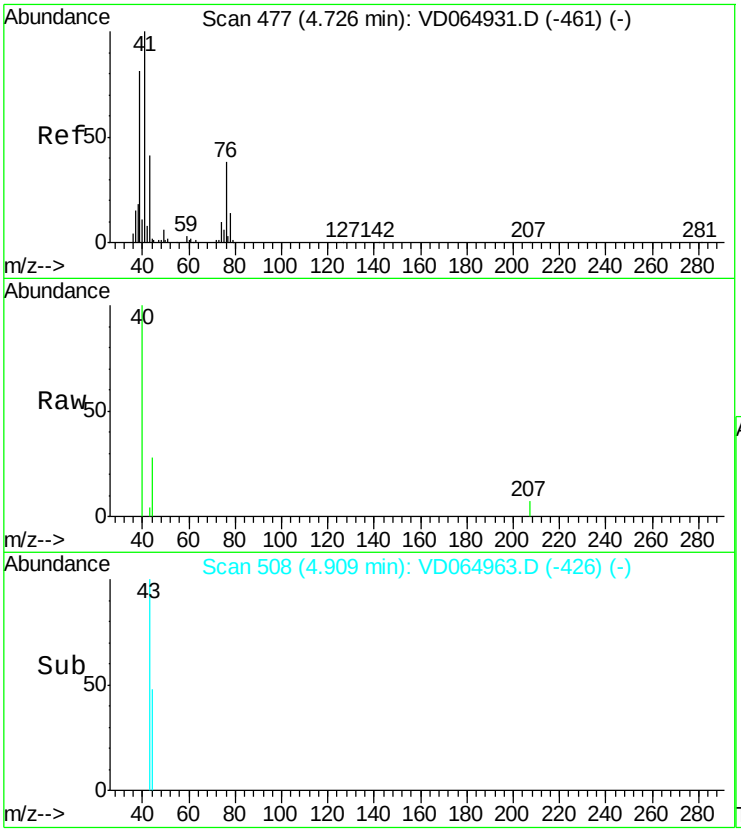




#16
Acetone
Concen: 20.11 ug/l
RT: 4.16 min Scan# 381
Delta R.T. -0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 43 Resp: 174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.8 | 23.8 | 35.8# |



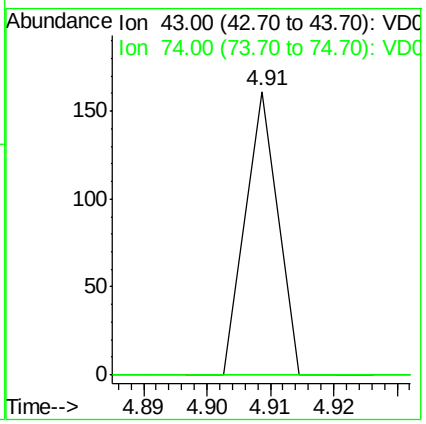


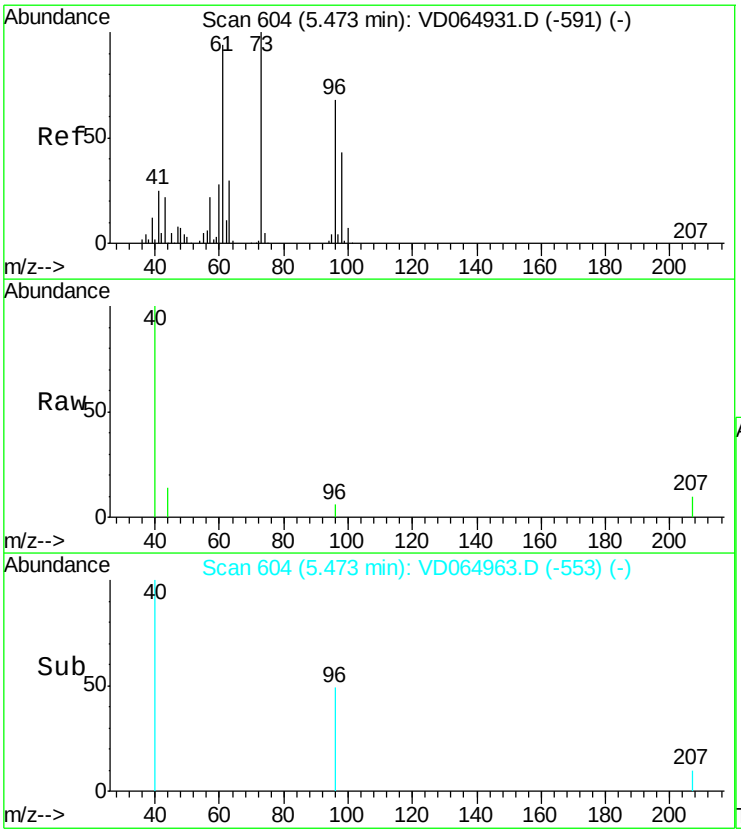

#18
Methyl Acetate
Concen: 1.30 ug/l
RT: 4.91 min Scan# 508
Delta R.T. 0.18 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 43 Resp: 57

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 0.0 | 19.1 | 28.7# |

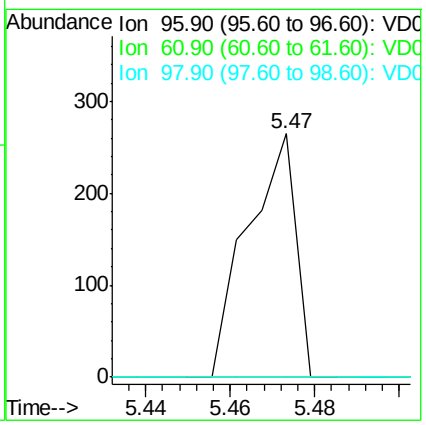


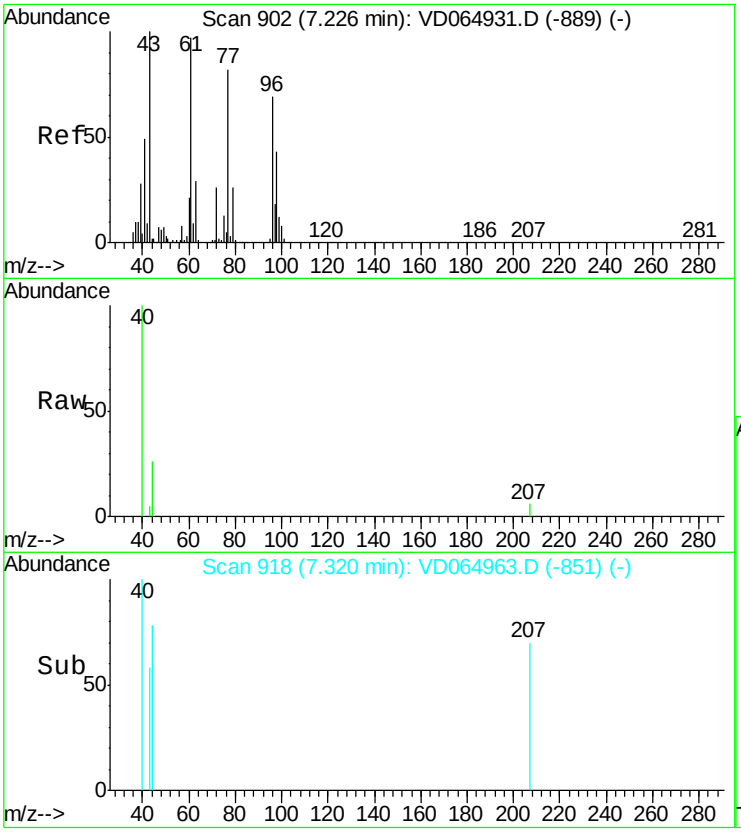




#21
trans-1,2-Dichloroethene
Concen: 2.14 ug/l
RT: 5.47 min Scan# 604
Delta R.T. -0.00 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 96 Resp: 210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 0.0 | 110.4 | 165.6# |
| 98 | 0.0 | 50.5 | 75.7# |



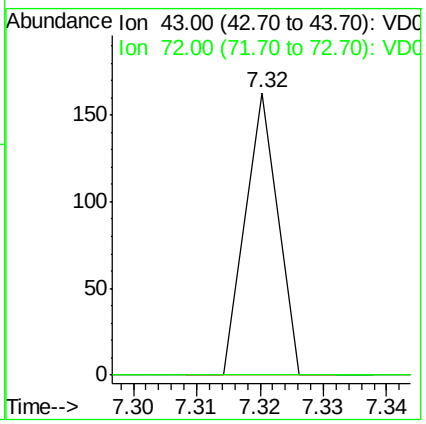


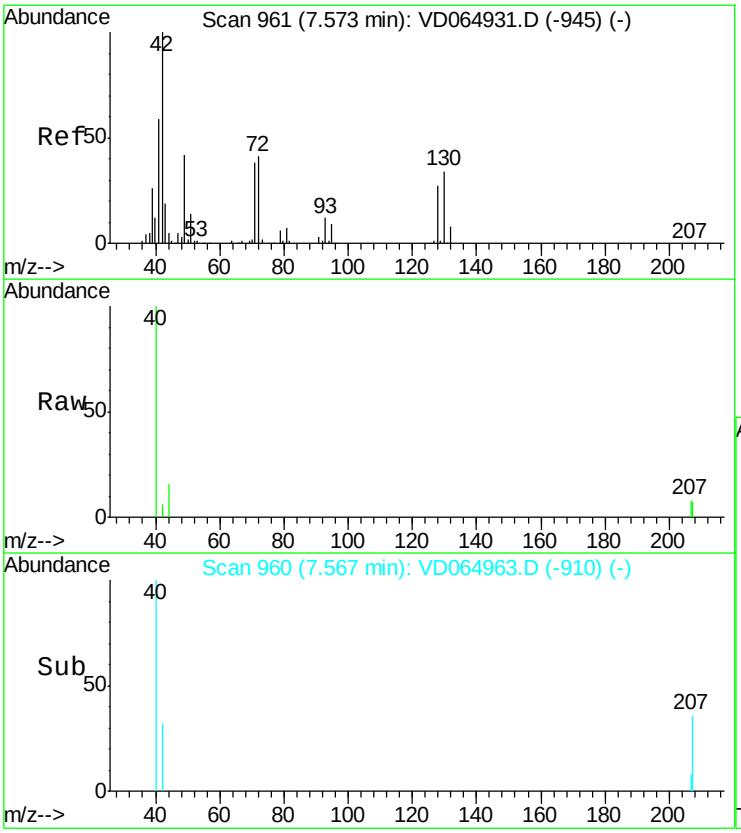

#25
2-Butanone
Concen: 2.29 ug/l
RT: 7.32 min Scan# 918
Delta R.T. 0.09 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 43 Resp: 58

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 0.0 | 20.6 | 31.0# |

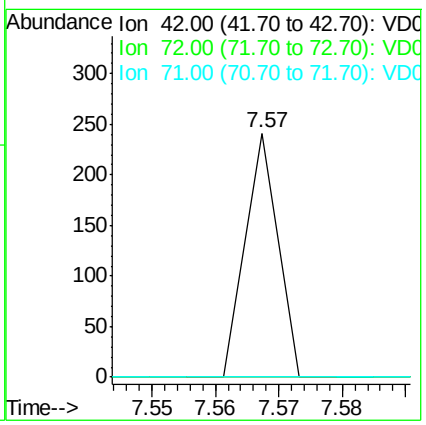


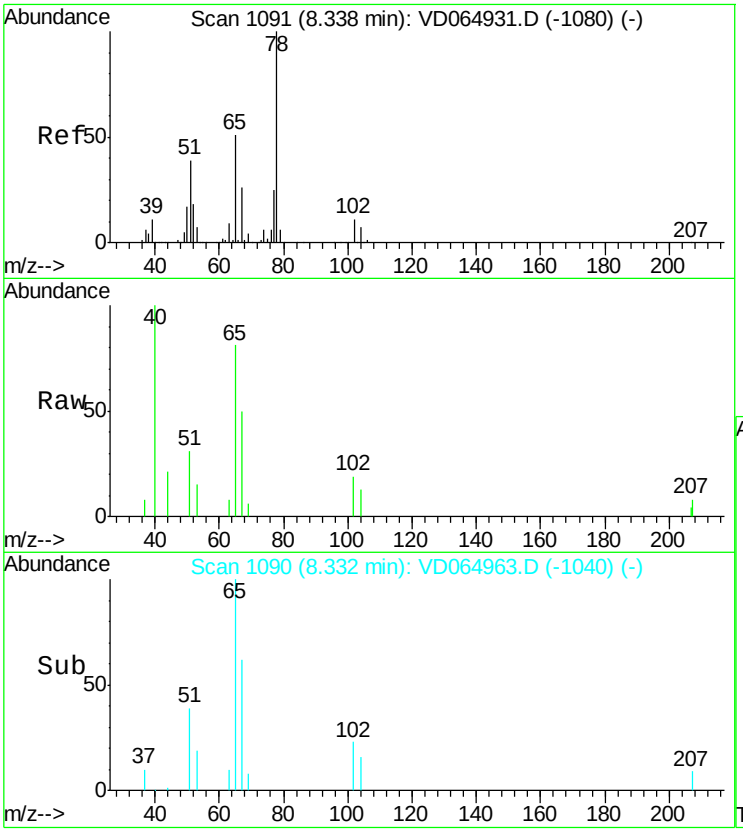




#29
Tetrahydrofuran
Concen: 5.44 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 42 Resp: 85

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 34.0 | 51.0# |
| 71 | 0.0 | 31.5 | 47.3# |



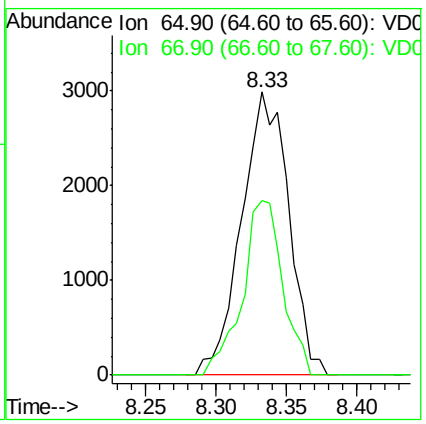


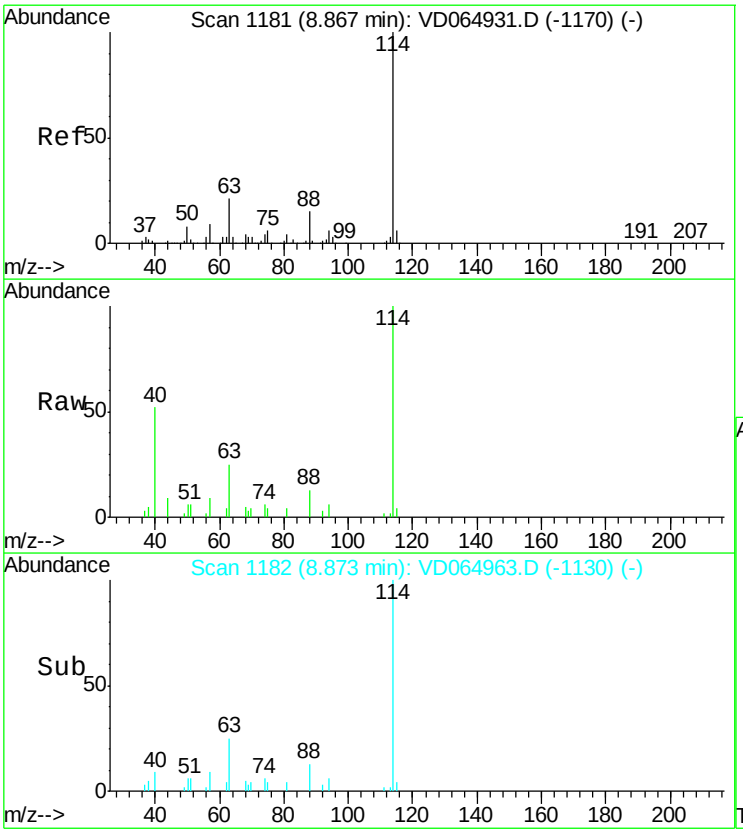

#33
1,2-Dichloroethane-d4
Concen: 74.65 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 65 Resp: 6993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.9 | 0.0 | 103.6 |

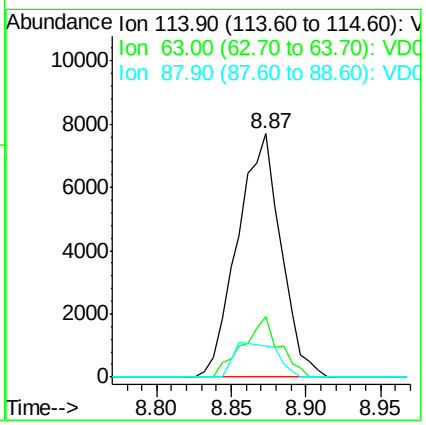


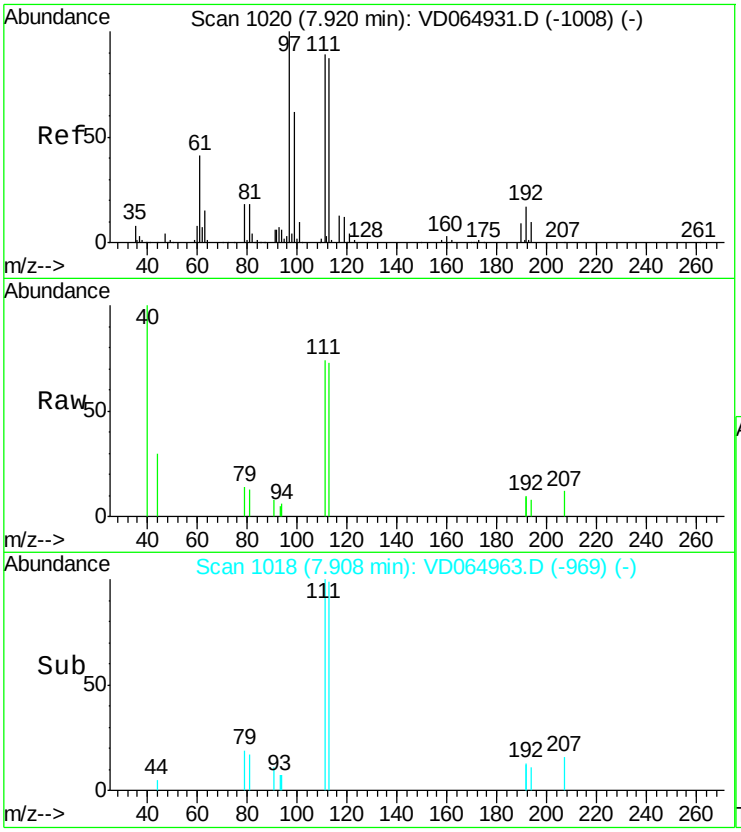




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.87 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion:114 Resp: 15517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.0 | 0.0 | 42.0 |
| 88 | 12.9 | 0.0 | 29.4 |



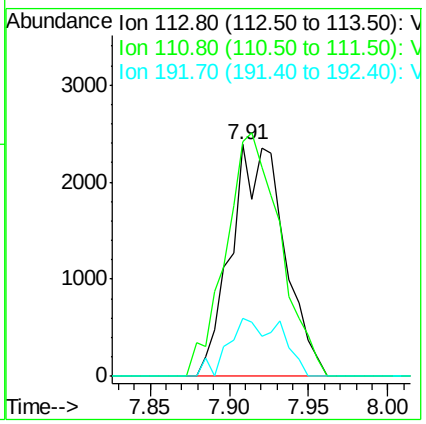


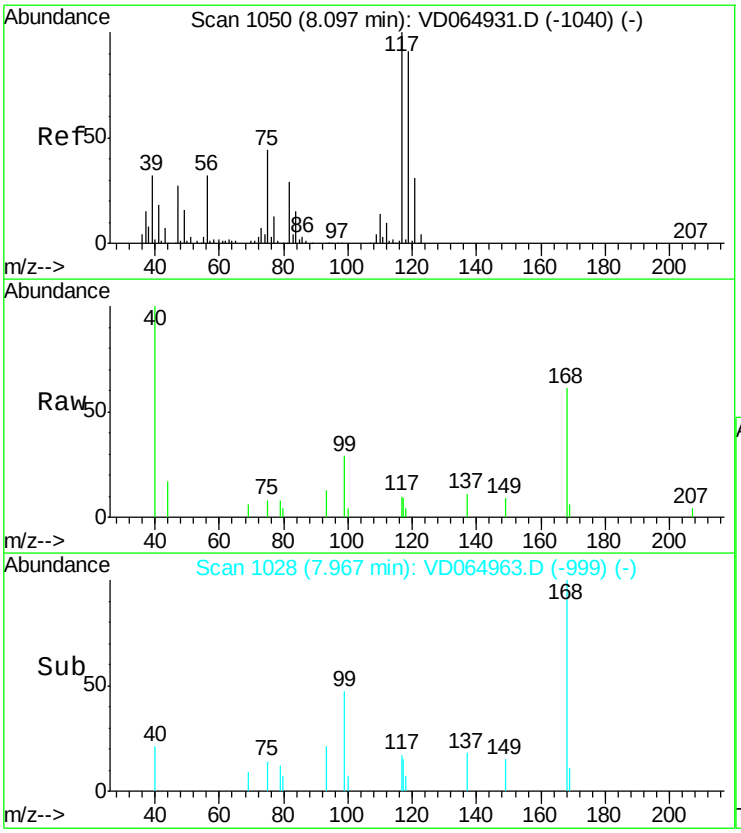

#35
Dibromofluoromethane
Concen: 57.31 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion:113 Resp: 5588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 107.2 | 82.4 | 123.6 |
| 192 | 24.8 | 16.9 | 25.3 |

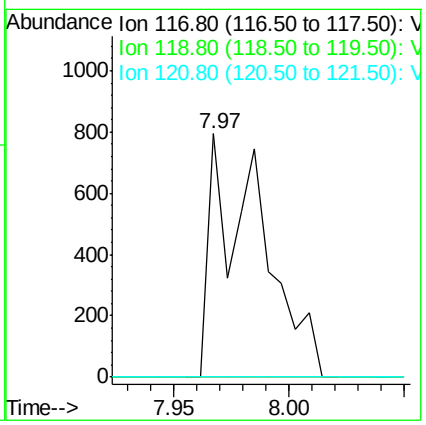


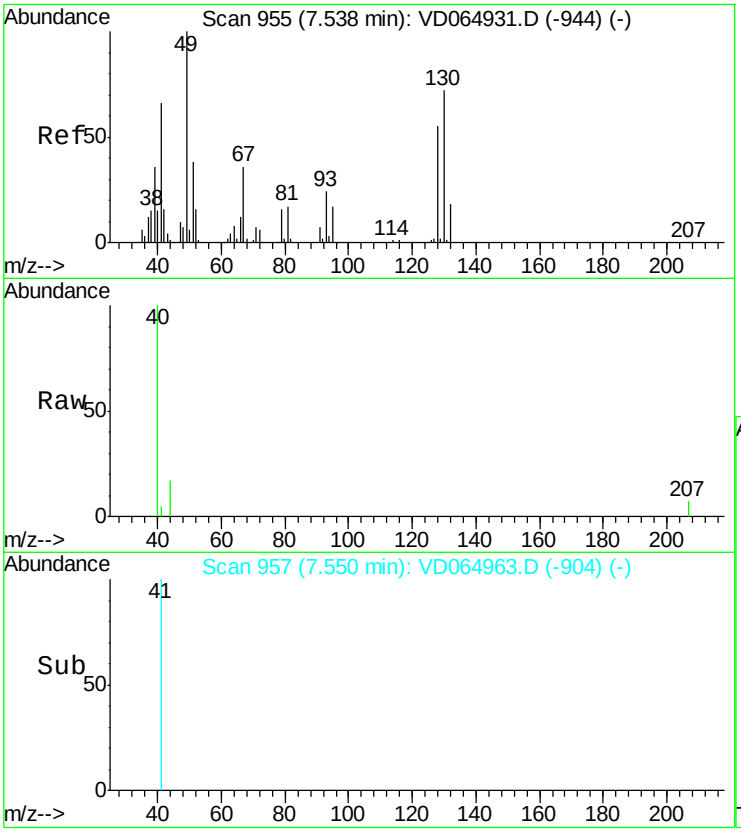




#38
Carbon Tetrachloride
Concen: 7.64 ug/l
RT: 7.97 min Scan# 1028
Delta R.T. -0.13 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion:117 Resp: 1208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 0.0 | 73.2 | 109.8# |
| 121 | 0.0 | 24.4 | 36.6# |



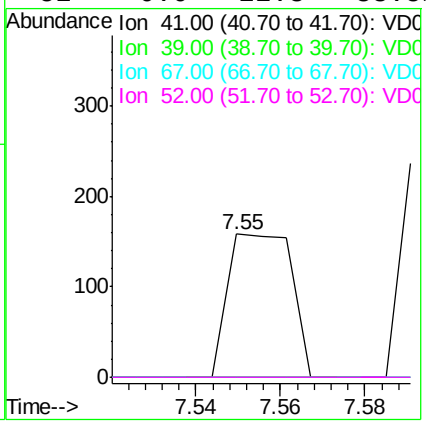


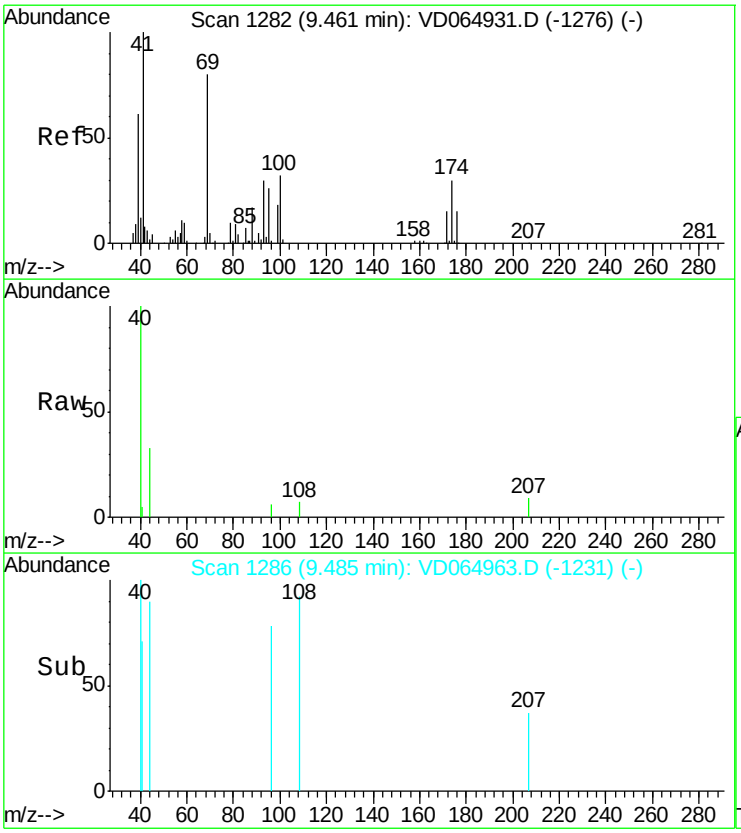

#41
Methacrylonitrile
Concen: 4.99 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 41 Resp: 166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 0.0 | 49.3 | 73.9# |
| 67 | 0.0 | 51.0 | 76.6# |
| 52 | 0.0 | 22.3 | 33.5# |

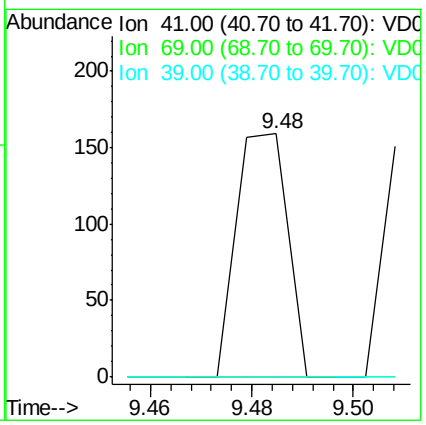


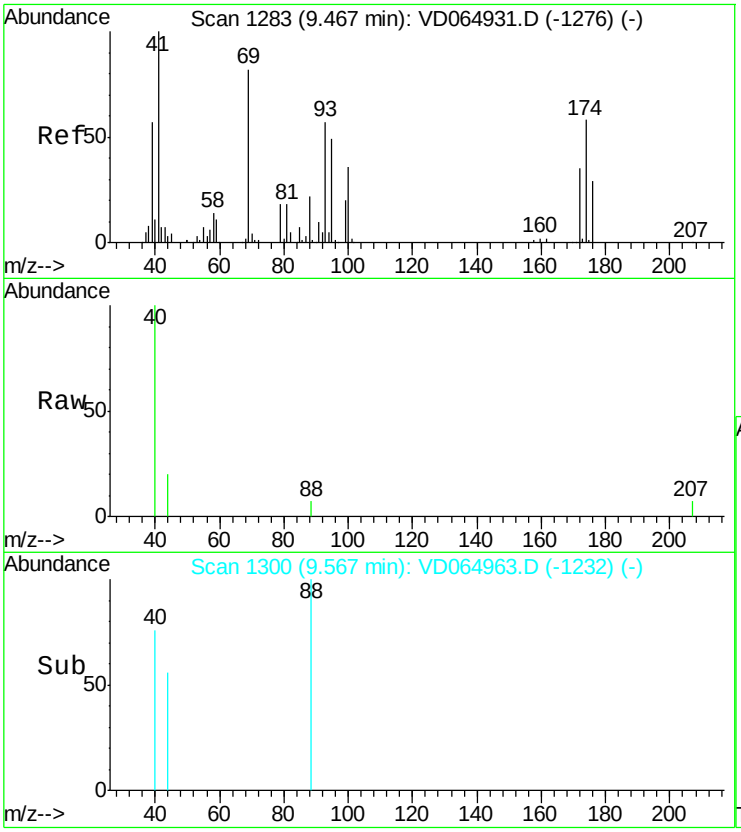




#48
Methyl methacrylate
Concen: 2.05 ug/l
RT: 9.48 min Scan# 1286
Delta R.T. 0.02 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 41 Resp: 111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 0.0 | 65.8 | 98.8# |
| 39 | 0.0 | 49.4 | 74.0# |



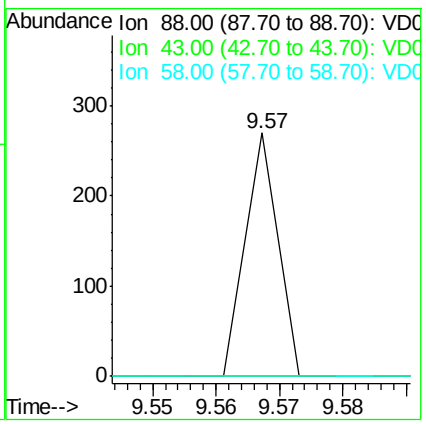


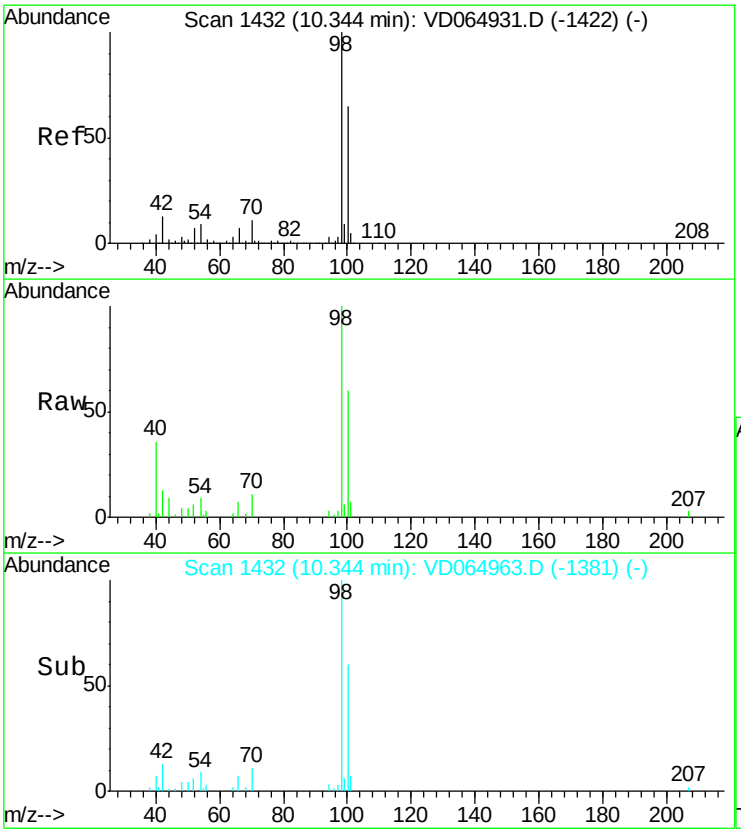

#49
1,4-Dioxane
Concen: 150.18 ug/l
RT: 9.57 min Scan# 1300
Delta R.T. 0.10 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :**
MSVOA_D
**ClientSampleId :**
OK-01-012420RE

Tgt Ion: 88 Resp: 95

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 26.2 | 39.4# |
| 58 | 0.0 | 50.3 | 75.5# |

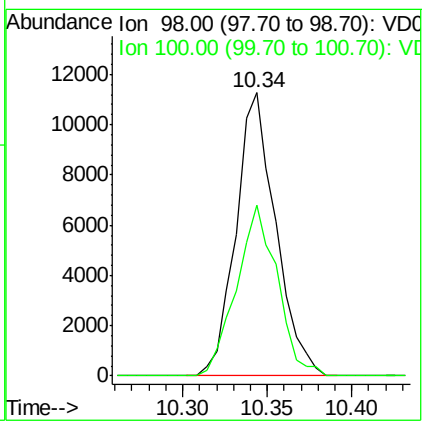


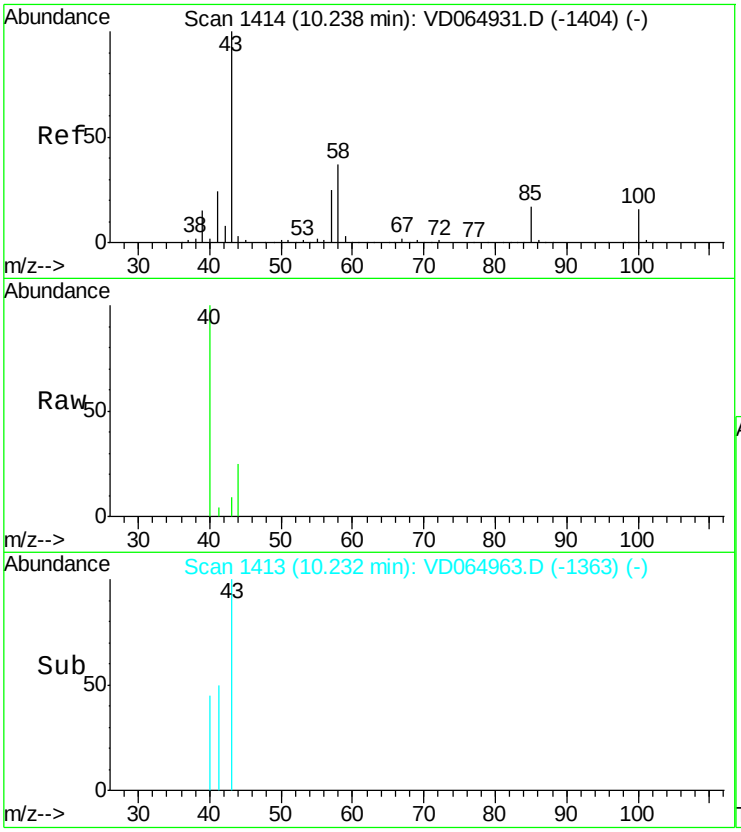




#50
Toluene-d8
Concen: 49.03 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 98 Resp: 18453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 61.7 | 52.3 | 78.5 |



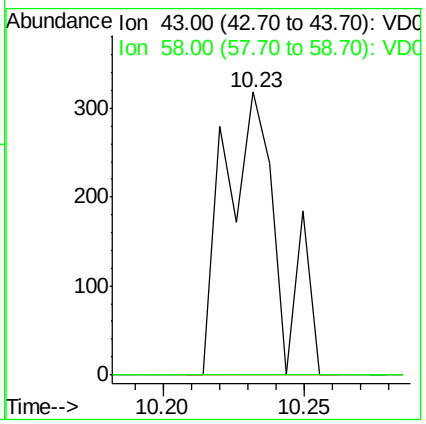


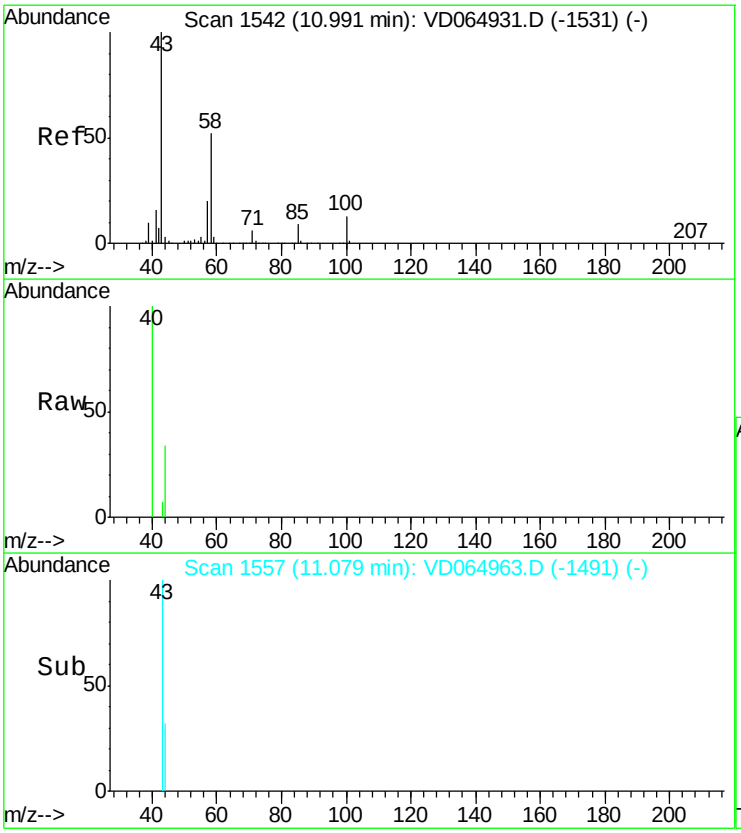

#51
4-Methyl-2-Pentanone
Concen: 7.15 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 43 Resp: 420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 30.4 | 45.6# |

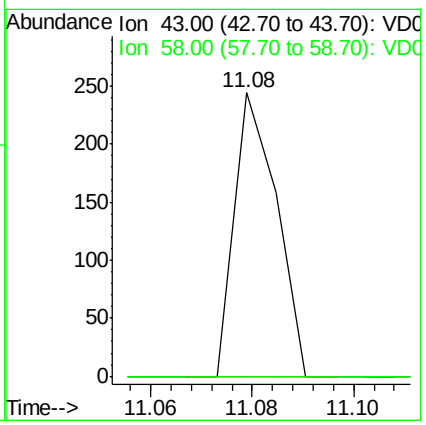


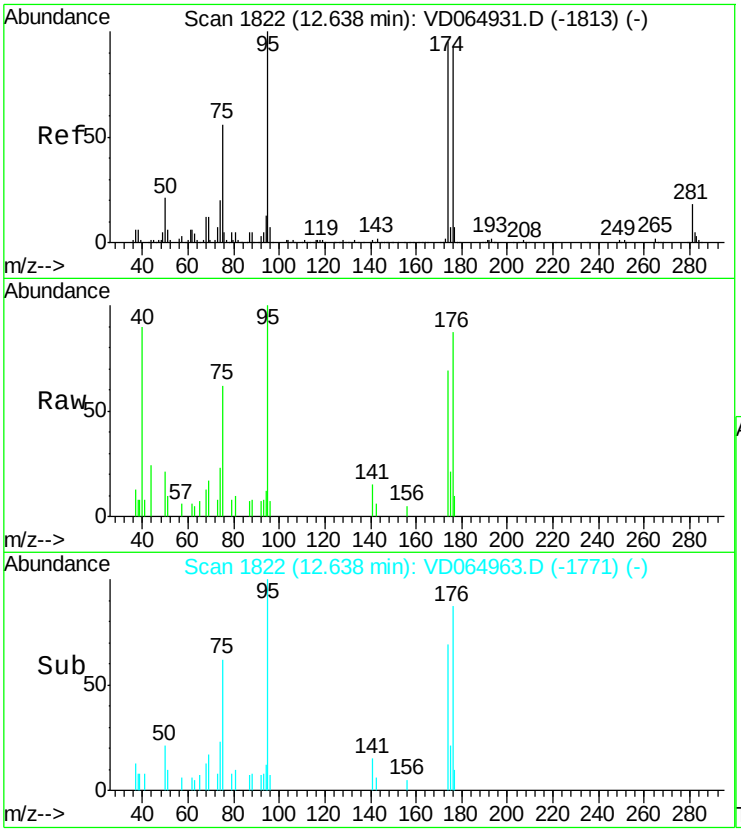




#59
2-Hexanone
Concen: 3.50 ug/l
RT: 11.08 min Scan# 1557
Delta R.T. 0.09 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 43 Resp: 142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 26.5 | 79.4# |



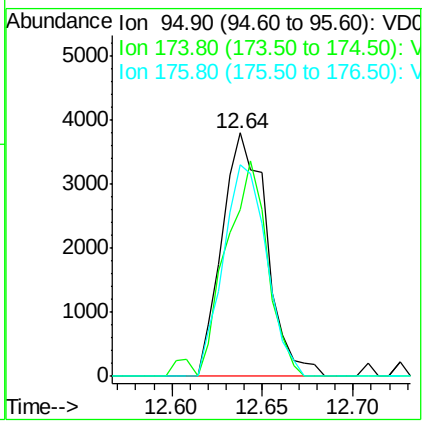


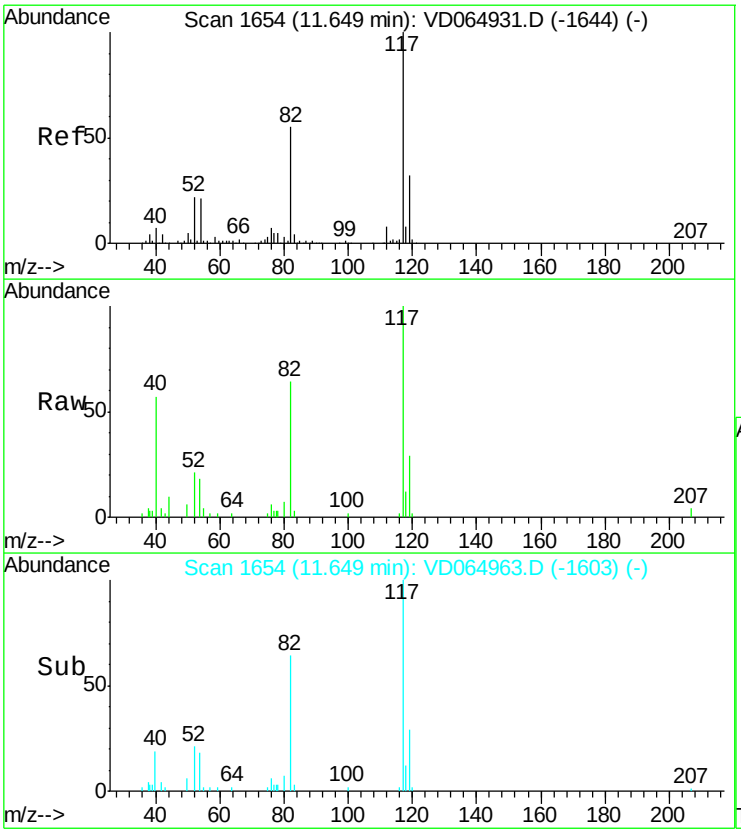

#62
4-Bromofluorobenzene
Concen: 56.59 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :**
MSVOA_D
**ClientSampleId :**
OK-01-012420RE

Tgt Ion: 95 Resp: 6518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.7 | 0.0 | 186.8 |
| 176 | 84.0 | 0.0 | 183.4 |

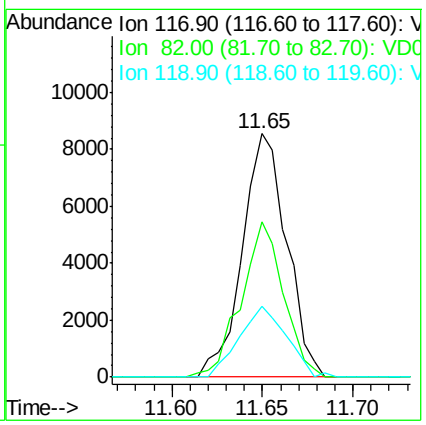


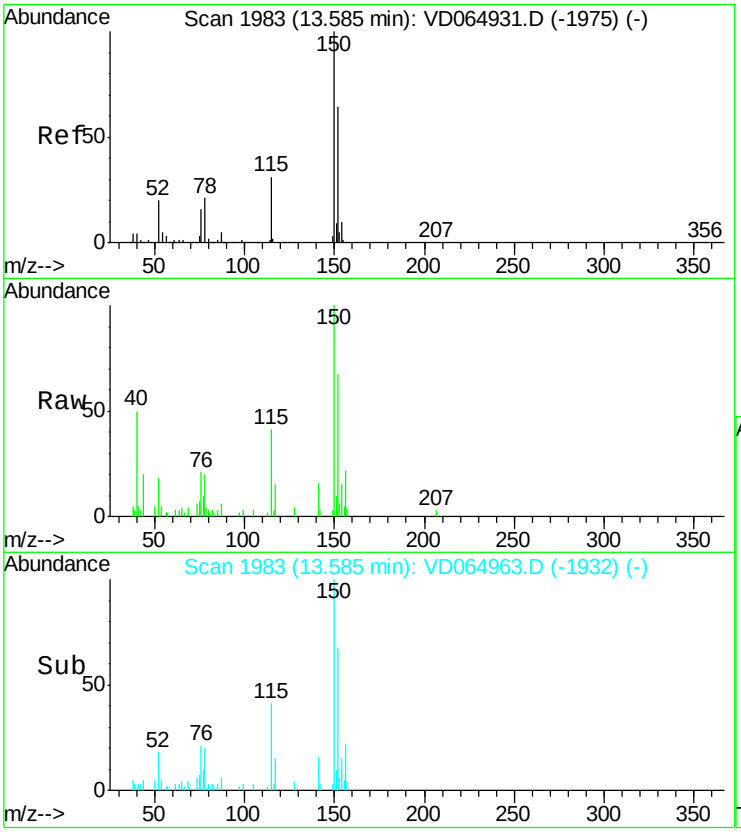




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion:117 Resp: 14510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.7 | 43.6 | 65.4 |
| 119 | 29.1 | 25.2 | 37.8 |



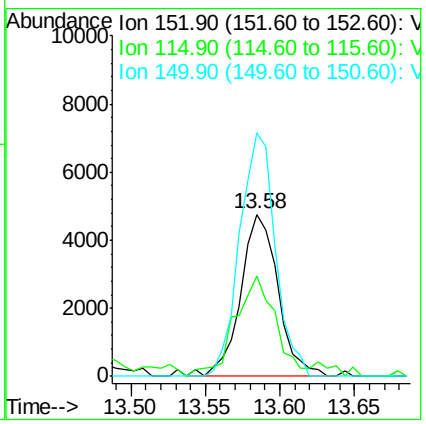


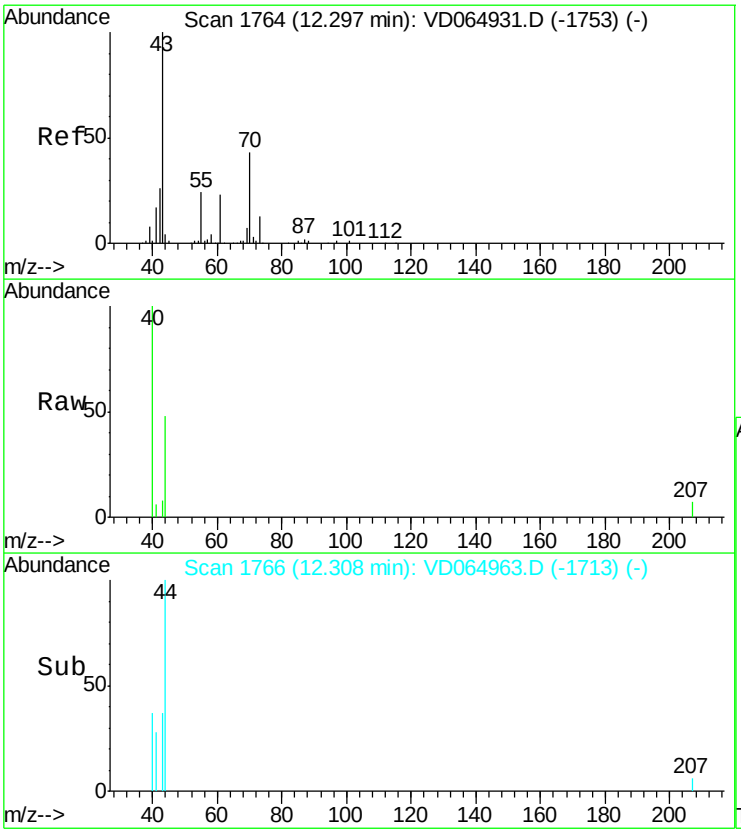

#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :**
MSVOA_D
**ClientSampleId :**
OK-01-012420RE

Tgt Ion:152 Resp: 8285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 67.7 | 28.1 | 84.4 |
| 150 | 143.0 | 0.0 | 350.4 |

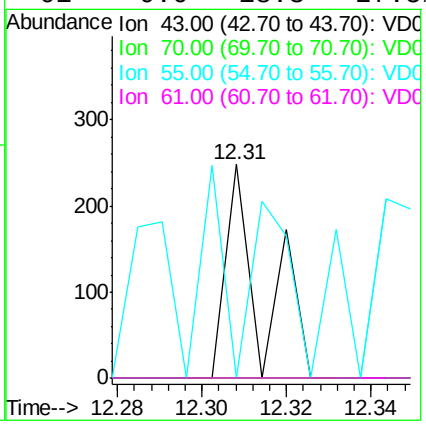


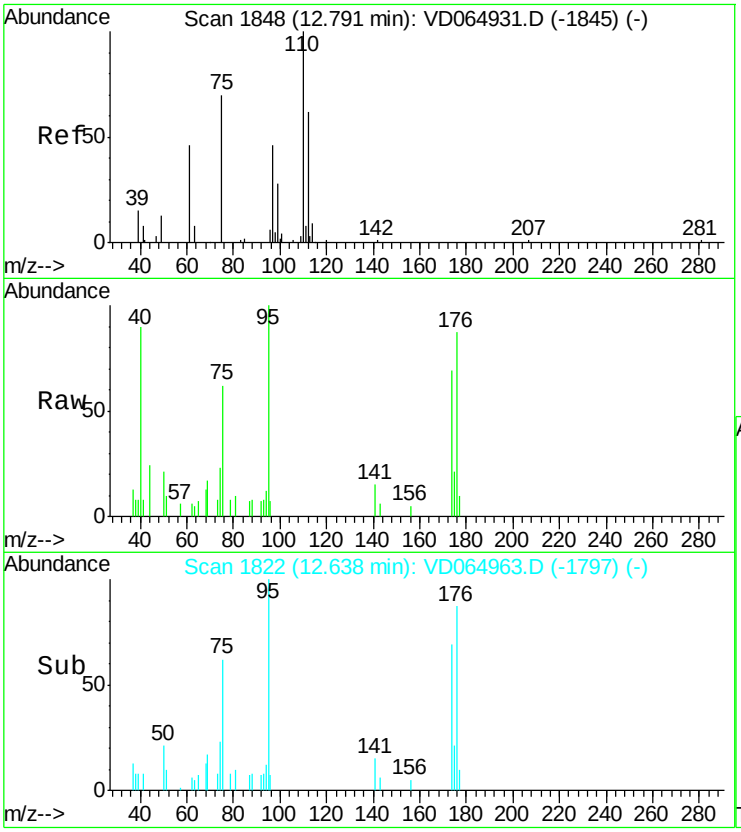




#74
N-amyl acetate
Concen: 1.18 ug/l
RT: 12.31 min Scan# 1766
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 43 Resp: 149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 0.0 | 32.6 | 49.0# |
| 55 | 87.9 | 19.9 | 29.9# |
| 61 | 0.0 | 18.3 | 27.5# |



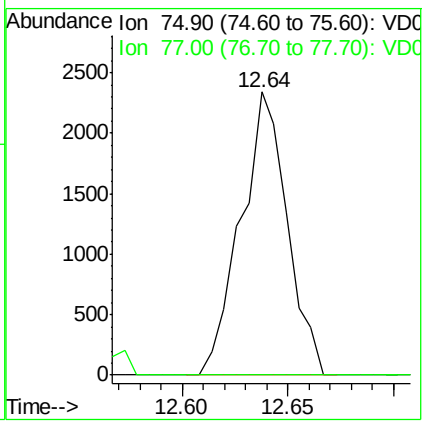


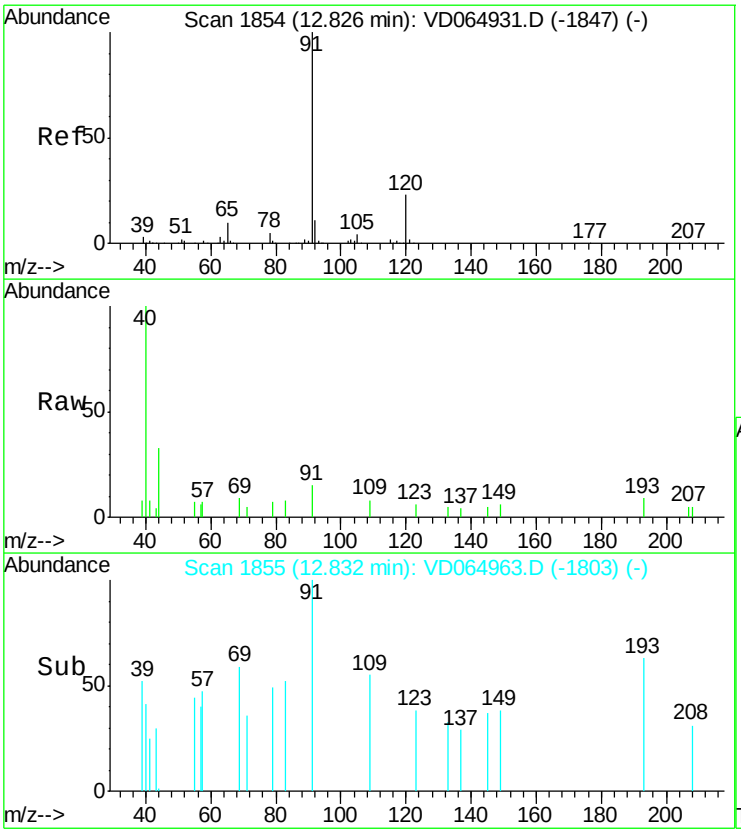

#76
1,2,3-Trichloropropane
Concen: 51.87 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 75 Resp: 3567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

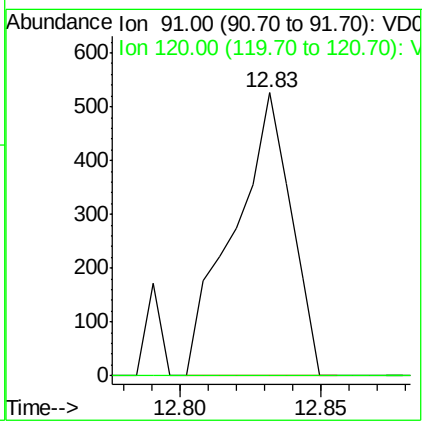


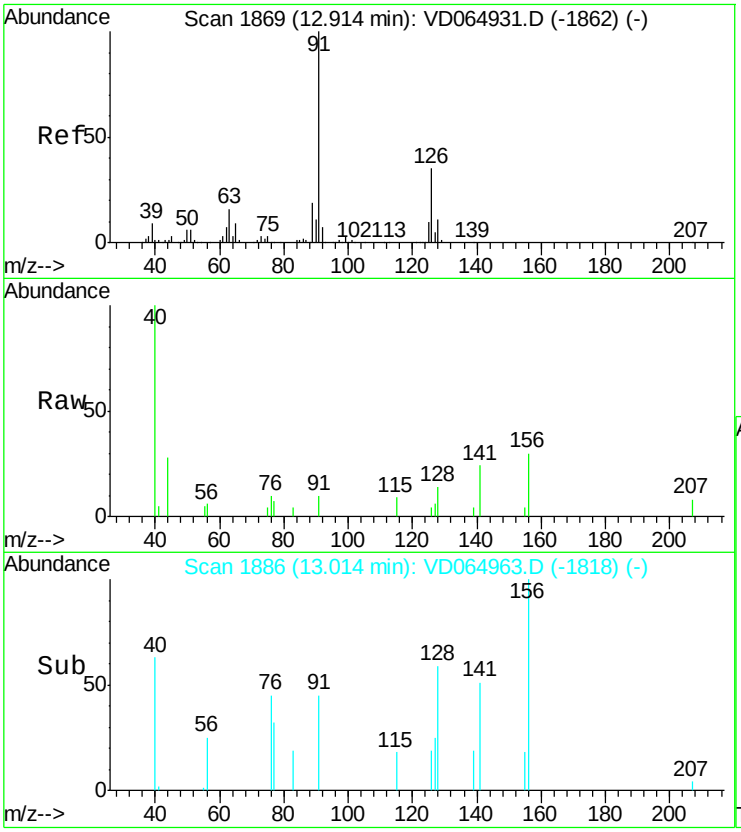




#78
n-propylbenzene
Concen: 1.10 ug/l
RT: 12.83 min Scan# 1855
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 91 Resp: 739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 0.0 | 11.7 | 35.1# |



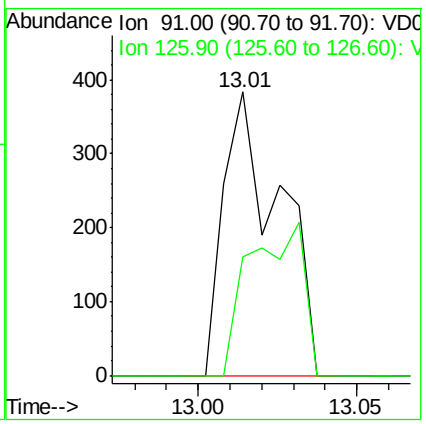


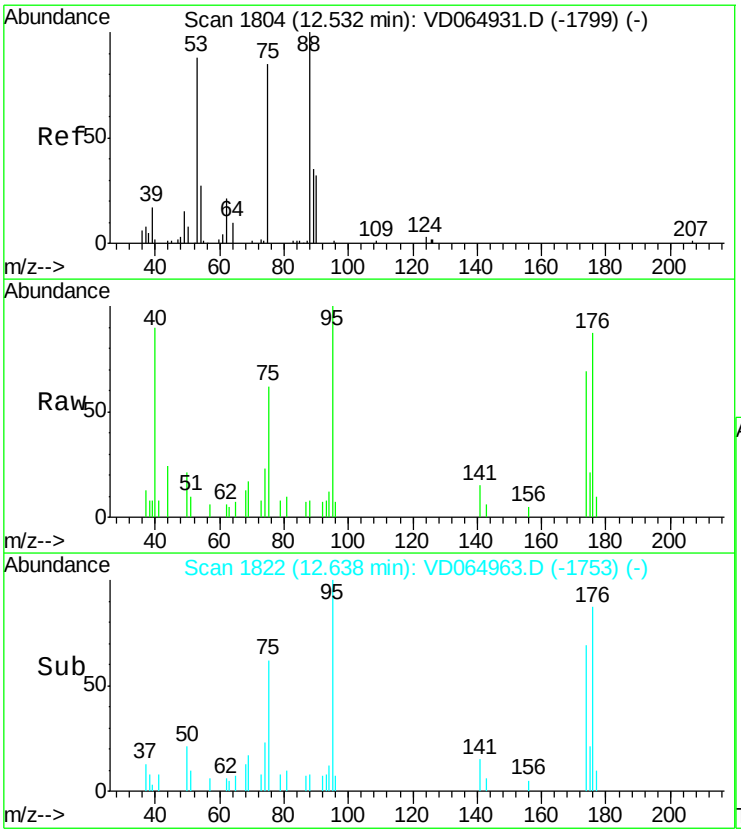

#79
2-Chlorotoluene
Concen: 1.26 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.10 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 91 Resp: 466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 53.0 | 17.9 | 53.8 |

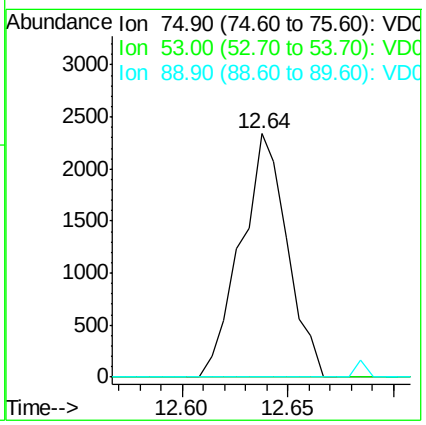


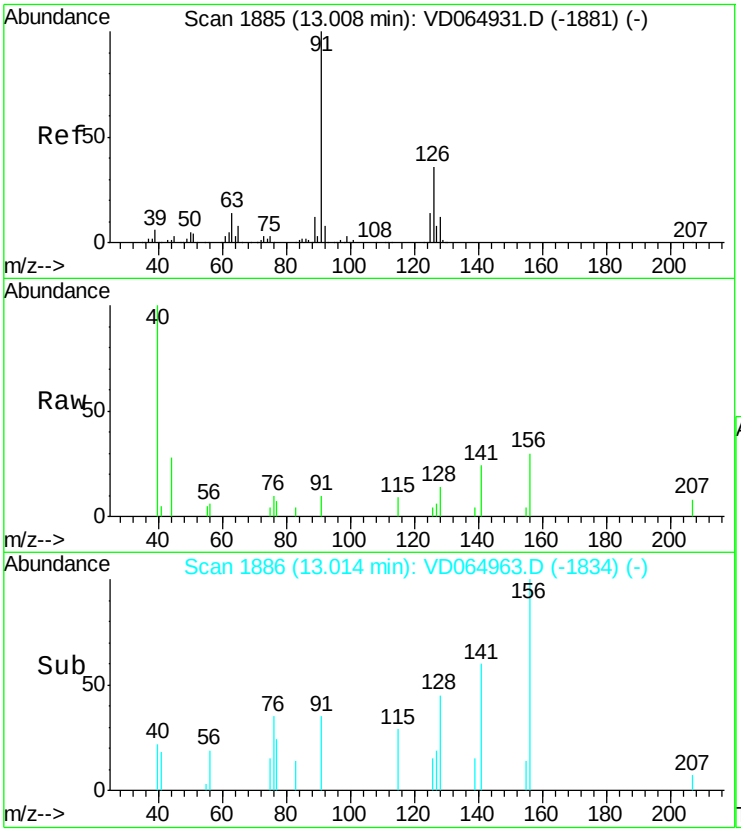




#81
trans-1,4-Dichloro-2-butene
Concen: 110.76 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion: 75 Resp: 3567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 81.0 | 121.4# |
| 89 | 0.0 | 36.2 | 54.4# |



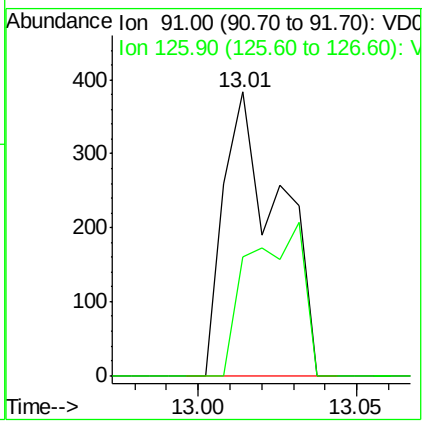


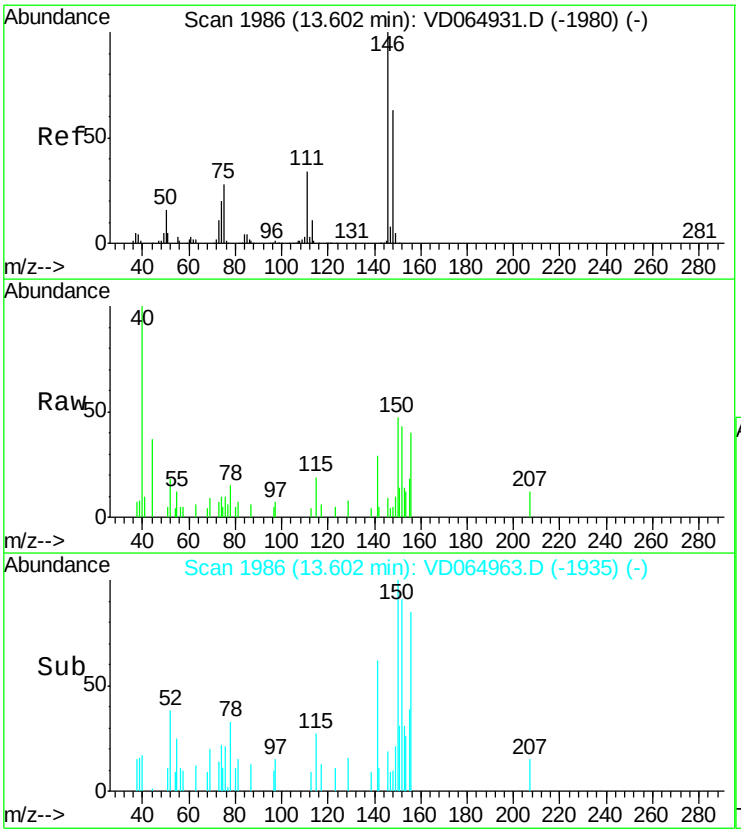

#82
4-Chlorotoluene
Concen: 1.19 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :**
MSVOA_D
**ClientSampleId :**
OK-01-012420RE

Tgt Ion: 91 Resp: 466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 53.0 | 18.0 | 54.0 |

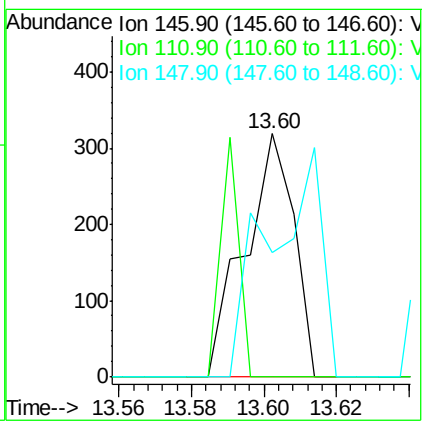


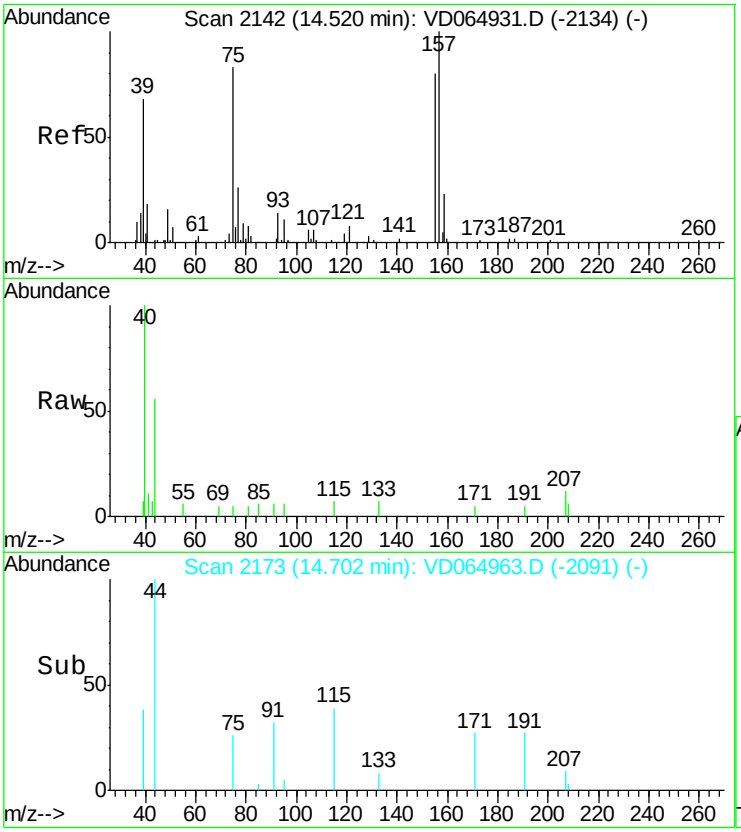




#88
1,4-Dichlorobenzene
Concen: 1.13 ug/l
RT: 13.60 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion:146 Resp: 299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 0.0 | 18.2 | 54.6# |
| 148 | 101.7 | 32.0 | 96.0# |



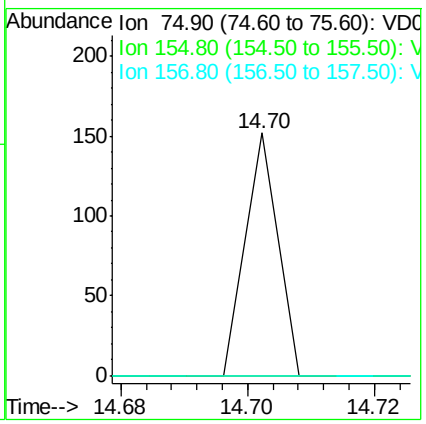


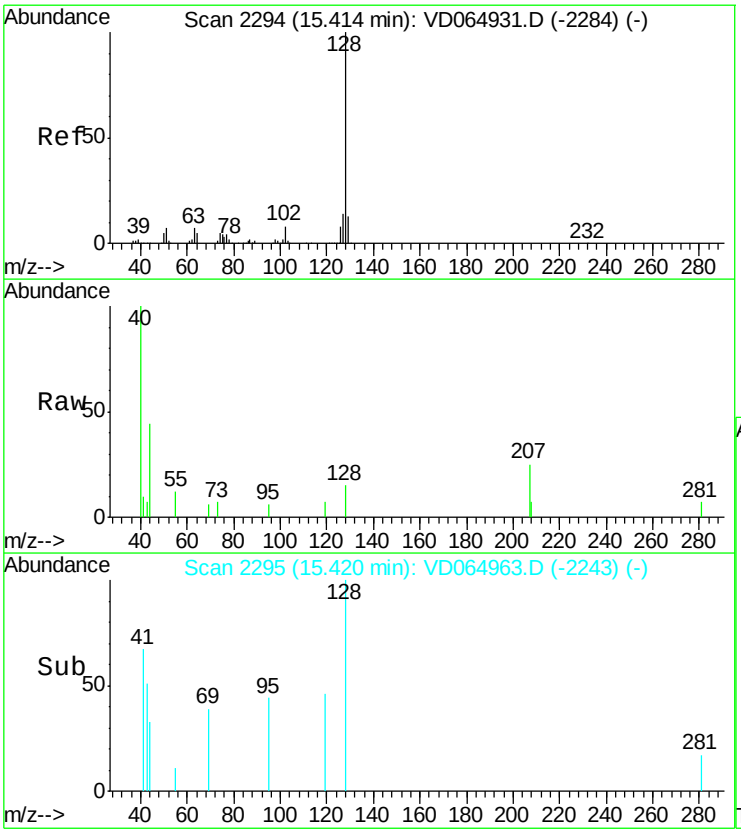

#92
1,2-Dibromo-3-Chloropropane
Concen: 3.55 ug/l
RT: 14.70 min Scan# 2173
Delta R.T. 0.18 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

**Instrument :** MSVOA_D
**ClientSampleId :** OK-01-012420RE

Tgt Ion: 75 Resp: 54

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 0.0 | 44.9 | 134.7# |
| 157 | 0.0 | 58.9 | 176.6# |




#95
Naphthalene
Concen: 1.41 ug/l
RT: 15.42 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VD064963.D
Acq: 27 Jan 2020 14:59

Tgt Ion:128 Resp: 355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 0.0 | 10.6 | 15.8# |
| 129 | 0.0 | 9.3 | 13.9# |