Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121719\
Data File : VN059640.D
Acq On : 17 Dec 2019 21:00
Operator : JC/SP
Sample : K6309-01 50X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Quant Time: Dec 18 06:36:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 13 23:17:39 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 7.64 | 168 | 270545 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.57 | 114 | 459825 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.40 | 117 | 354657 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152 | 194706 | 50.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.00 | 65 | 186345 | 47.33 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 94.66% | | | |
| 35) Dibromofluoromethane | 7.57 | 113 | 137494 | 47.79 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 95.58% | | | |
| 50) Toluene-d8 | 10.08 | 98 | 484039 | 42.49 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 84.98% | | | |
| 62) 4-Bromofluorobenzene | 12.40 | 95 | 179680 | 43.23 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 86.46% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) Diethyl Ether | 3.38 | 74 | 4426 | 2.454 | ug/l | 95 |
| 11) Tert butyl alcohol | 4.75 | 59 | 51950 | 71.978 | ug/l # | 94 |
| 16) Acetone | 3.79 | 43 | 111168 | 47.562 | ug/l | 93 |
| 18) Methyl Acetate | 4.30 | 43 | 18314 | 3.739 | ug/l | 100 |
| 25) 2-Butanone | 6.81 | 43 | 36937 | 13.215 | ug/l | 98 |
| 39) Methylcyclohexane | 9.07 | 83 | 10967 | 2.016 | ug/l | 98 |
| 40) Benzene | 8.02 | 78 | 1839213 | 131.244 | ug/l | 100 |
| 52) Toluene | 10.14 | 92 | 1020424 | 118.509 | ug/l | 98 |
| 67) Ethyl Benzene | 11.50 | 91 | 81281 | 5.868 | ug/l | 98 |
| 68) m/p-Xylenes | 11.61 | 106 | 221402 | 43.285 | ug/l | 99 |
| 69) o-Xylene | 11.94 | 106 | 65463 | 13.450 | ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105 | 48181 | 3.725 | ug/l | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105 | 102603 | 7.978 | ug/l | 98 |
| 95) Naphthalene | 15.12 | 128 | 15502 | 1.180 | ug/l | 97 |

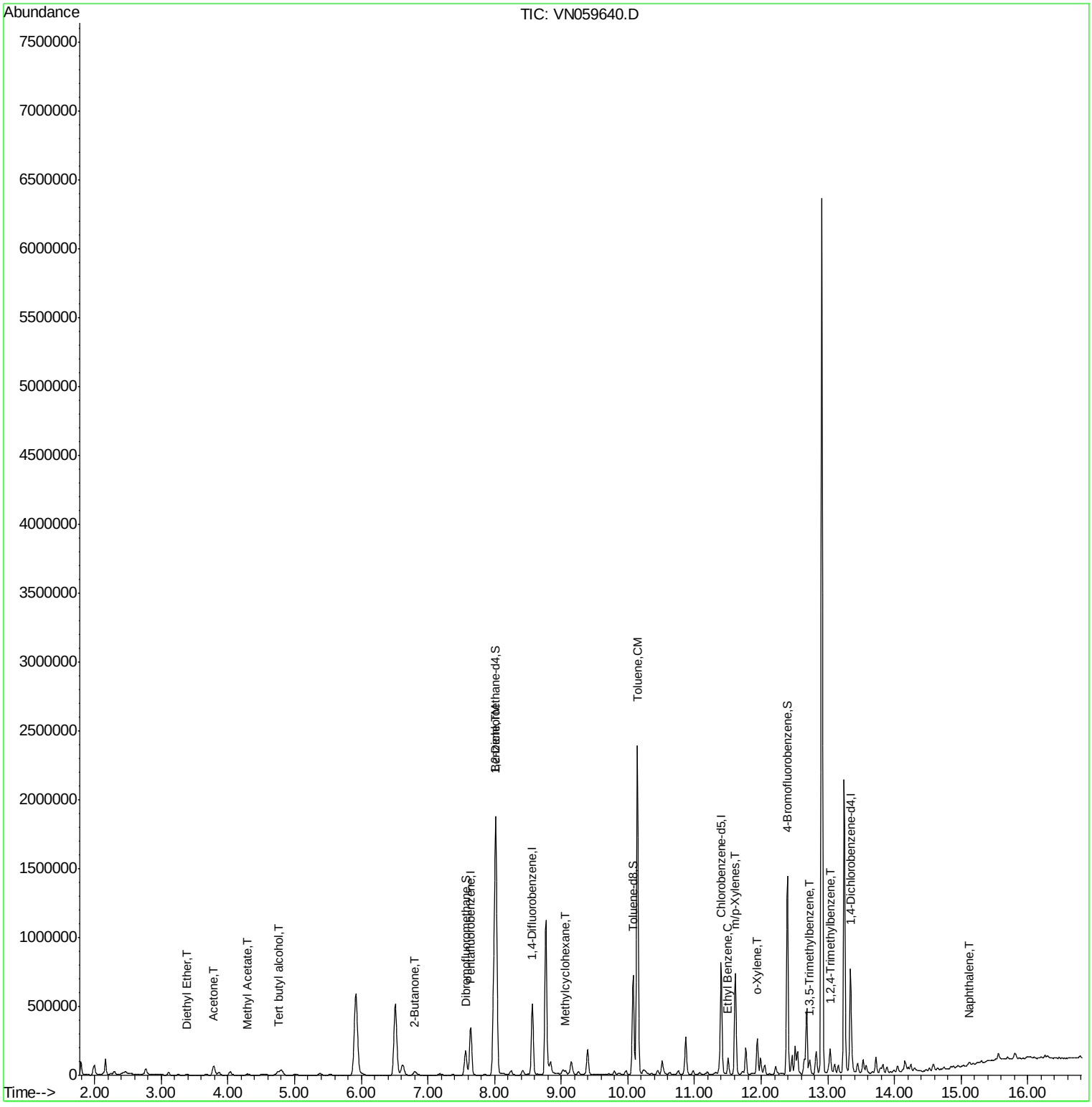
(#) = qualifier out of range (m) = manual integration (+) = signals summed

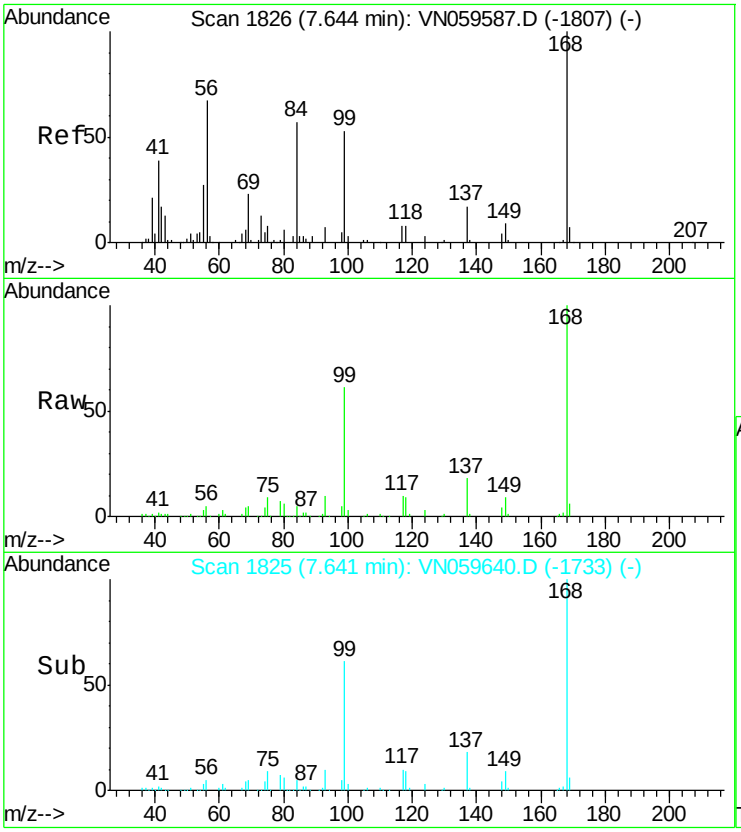
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121719\
Data File : VN059640.D
Acq On : 17 Dec 2019 21:00
Operator : JC/SP
Sample : K6309-01 50X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Quant Time: Dec 18 06:36:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 13 23:17:39 2019
Response via : Initial Calibration



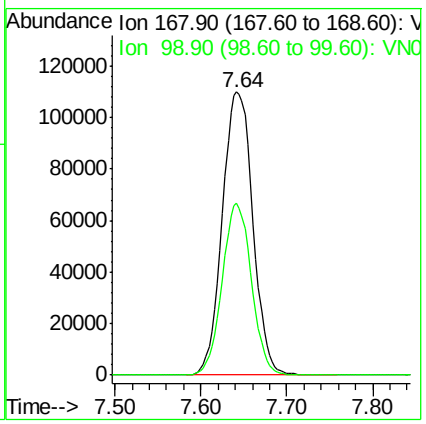


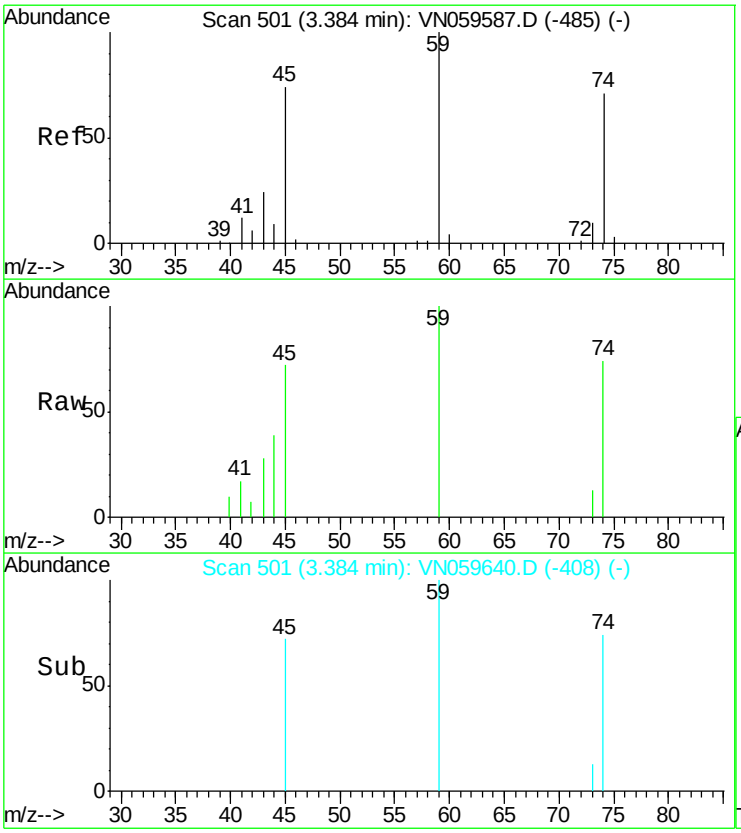

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion:168 Resp: 270545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.6 | 48.2 | 72.4 |

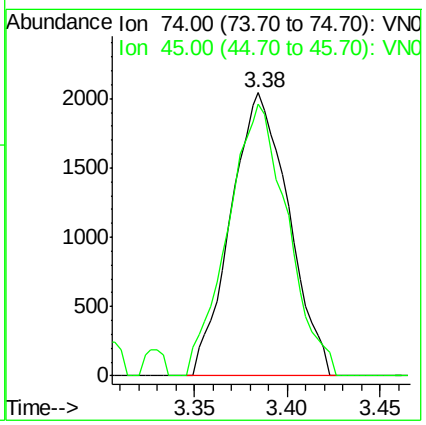


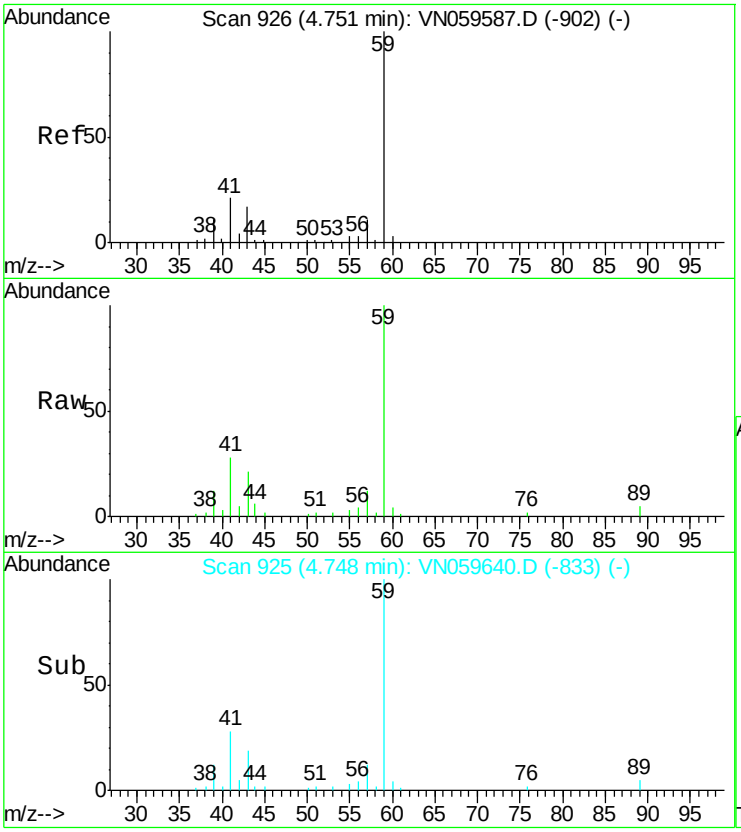




#8
Diethyl Ether
Concen: 2.454 ug/l
RT: 3.38 min Scan# 501
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion: 74 Resp: 4426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 99.2 | 51.9 | 155.8 |



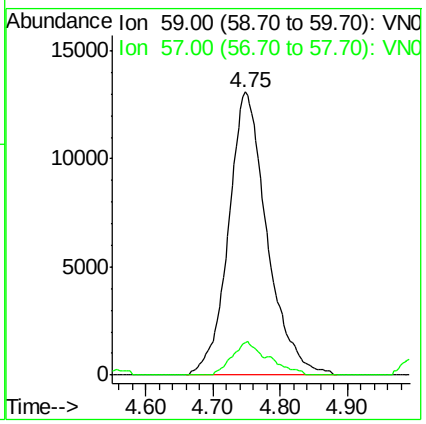


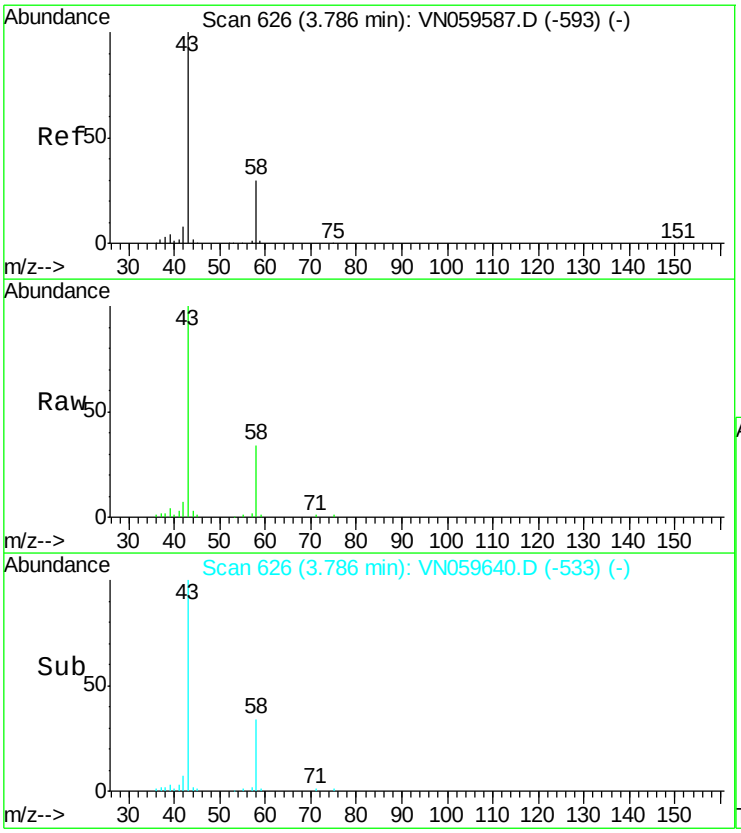

#11
Tert butyl alcohol
Concen: 71.978 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion: 59 Resp: 51950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.3 | 8.6 | 12.8# |

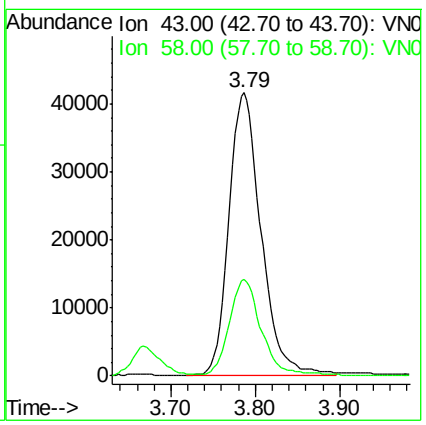


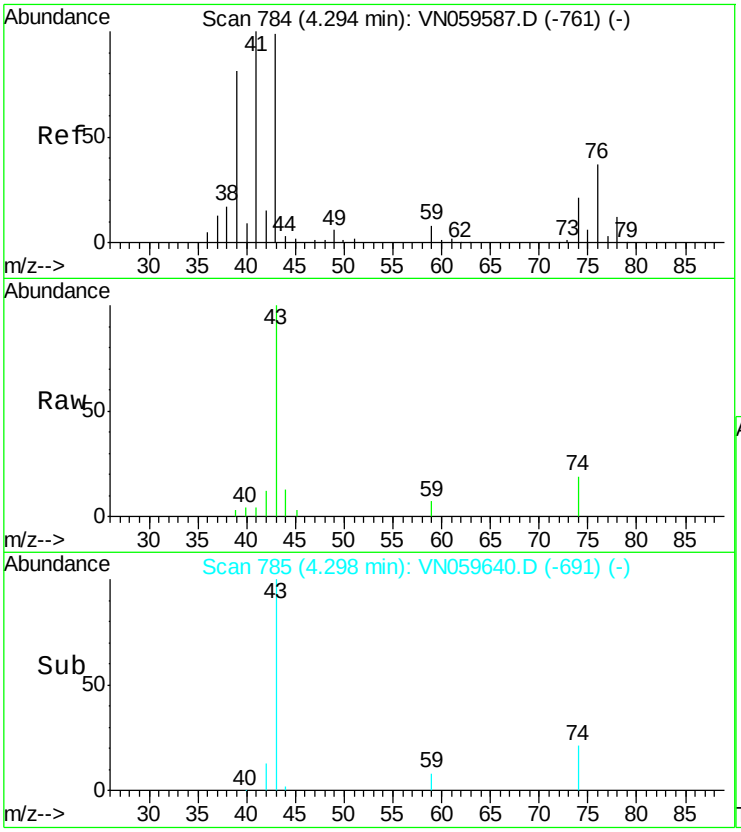




#16
Acetone
Concen: 47.562 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion: 43 Resp: 111168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 23.6 | 35.4 |



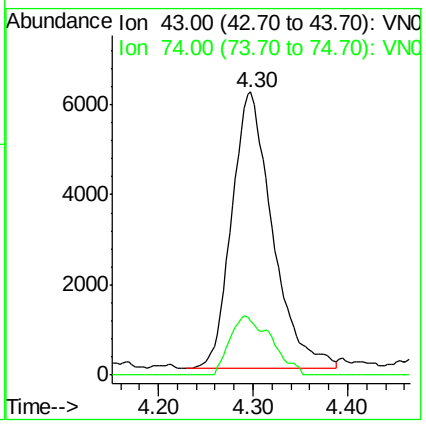


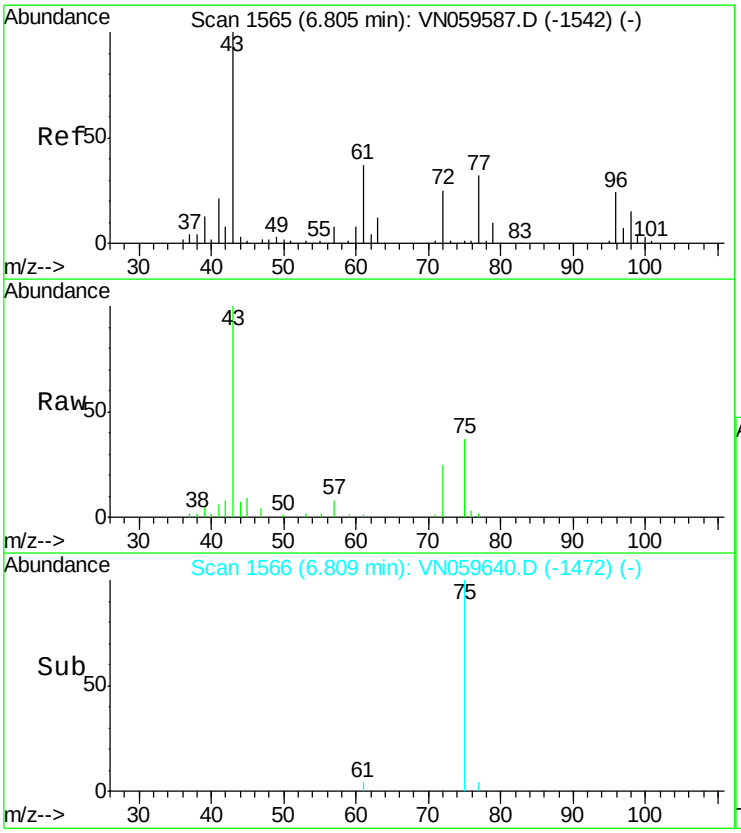

#18
Methyl Acetate
Concen: 3.739 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion: 43 Resp: 18314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.8 | 17.5 | 26.3 |

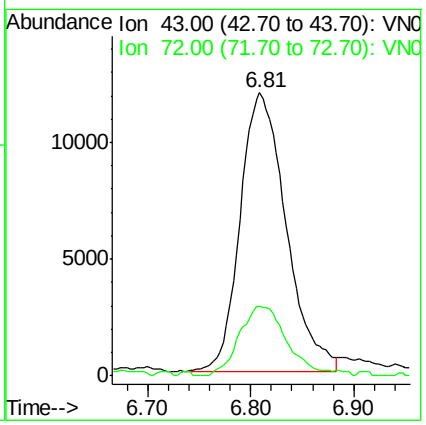


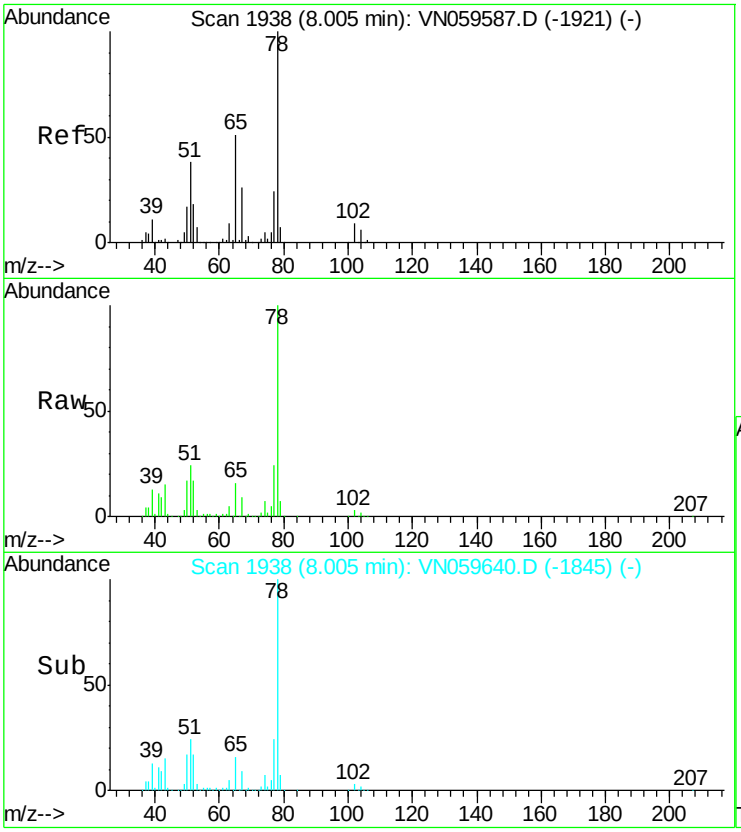




#25
2-Butanone
Concen: 13.215 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion: 43 Resp: 36937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.7 | 19.9 | 29.9 |



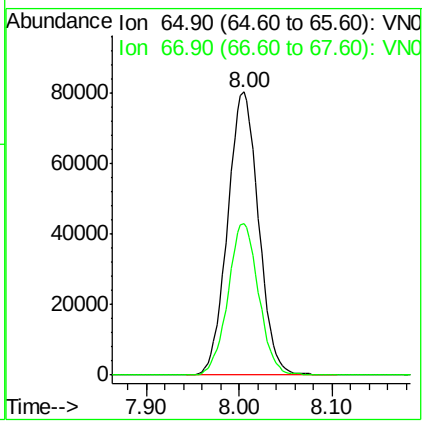


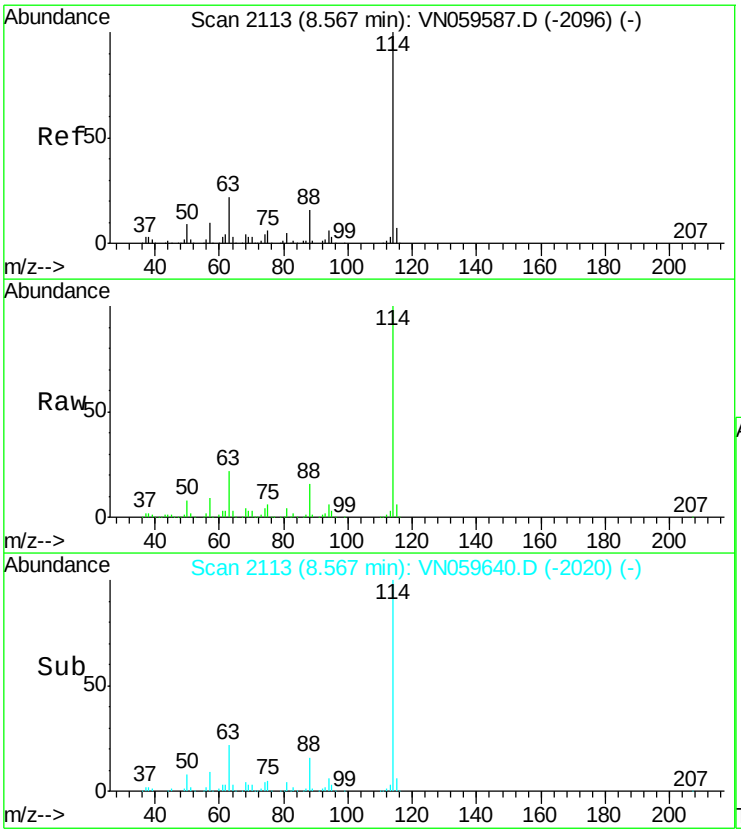

#33
1,2-Dichloroethane-d4
Concen: 47.334 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion: 65 Resp: 186345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 103.0 |

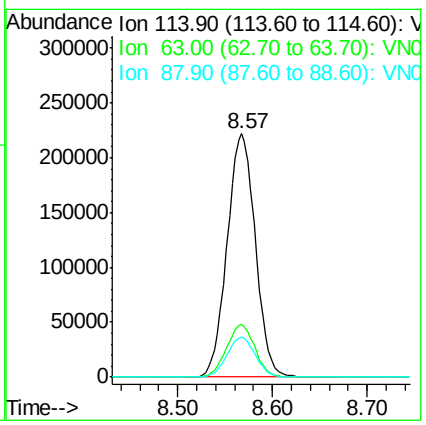


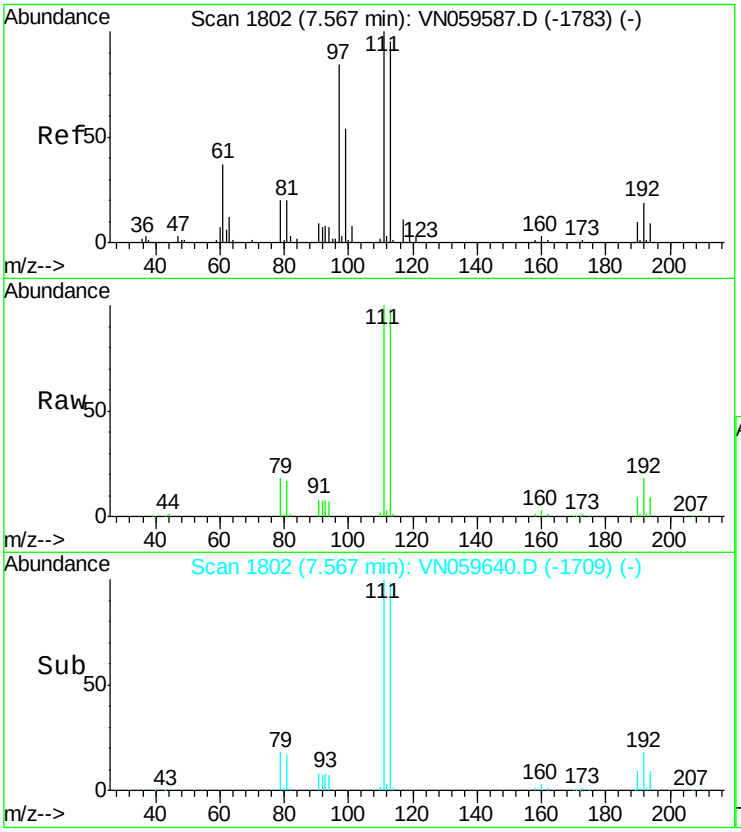




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion:114 Resp: 459825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 43.6 |
| 88 | 16.5 | 0.0 | 31.4 |



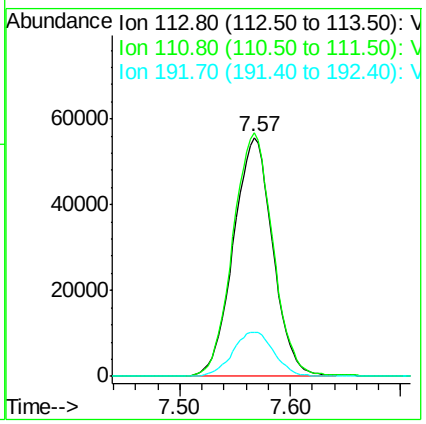


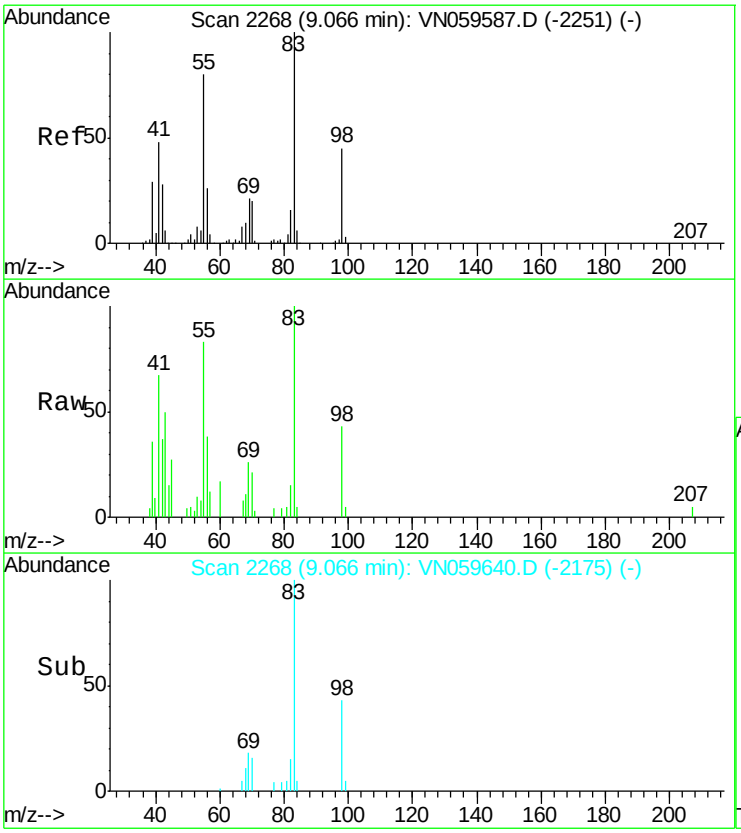

#35
Dibromofluoromethane
Concen: 47.790 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :**
MSVOA_N
**ClientSampleId :**
30784

Tgt Ion:113 Resp: 137494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.3 | 83.5 | 125.3 |
| 192 | 19.4 | 15.4 | 23.2 |

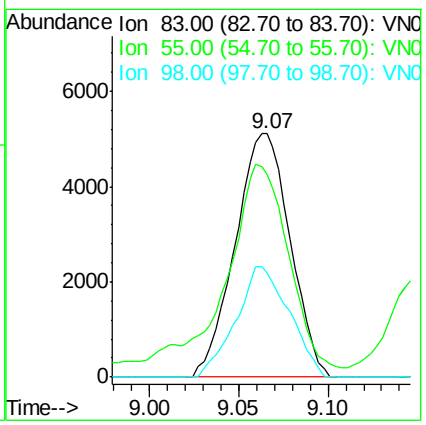


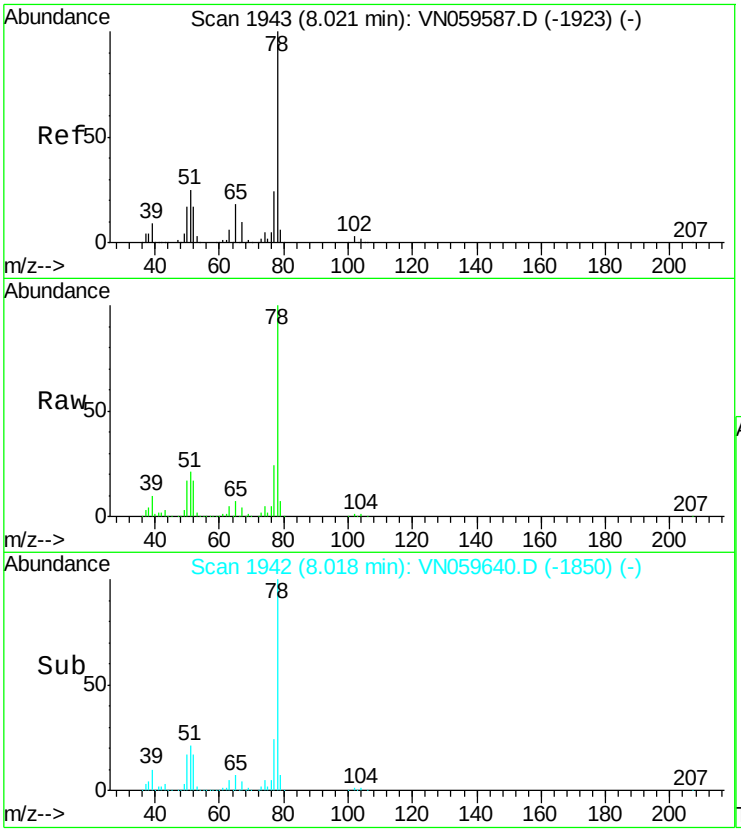




#39
Methylcyclohexane
Concen: 2.016 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion: 83 Resp: 10967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.7 | 64.2 | 96.2 |
| 98 | 42.8 | 35.9 | 53.9 |



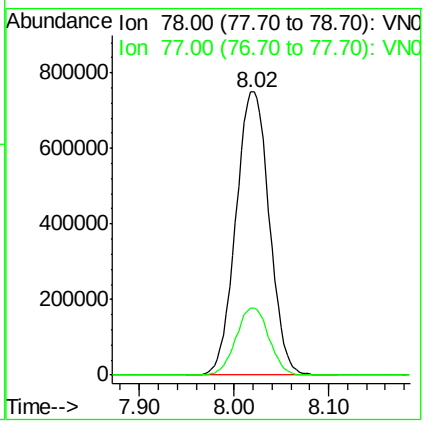


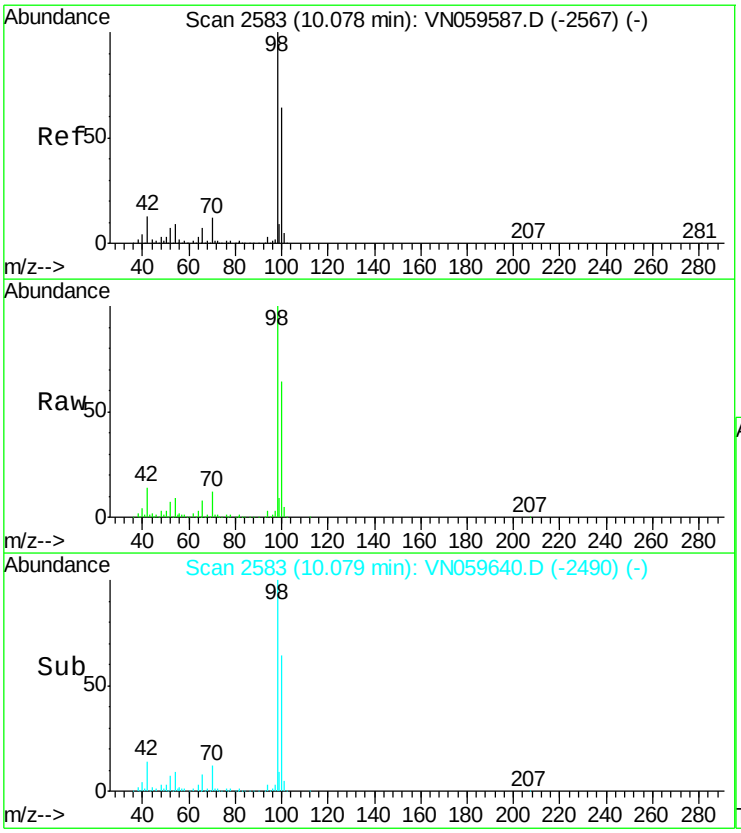

#40
Benzene
Concen: 131.244 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :**
MSVOA_N
**ClientSampleId :**
30784

Tgt Ion: 78 Resp: 1839213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.9 | 28.3 |

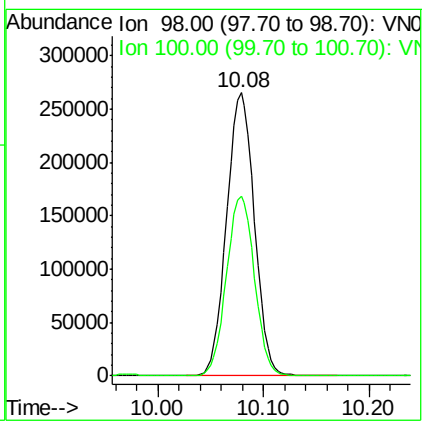


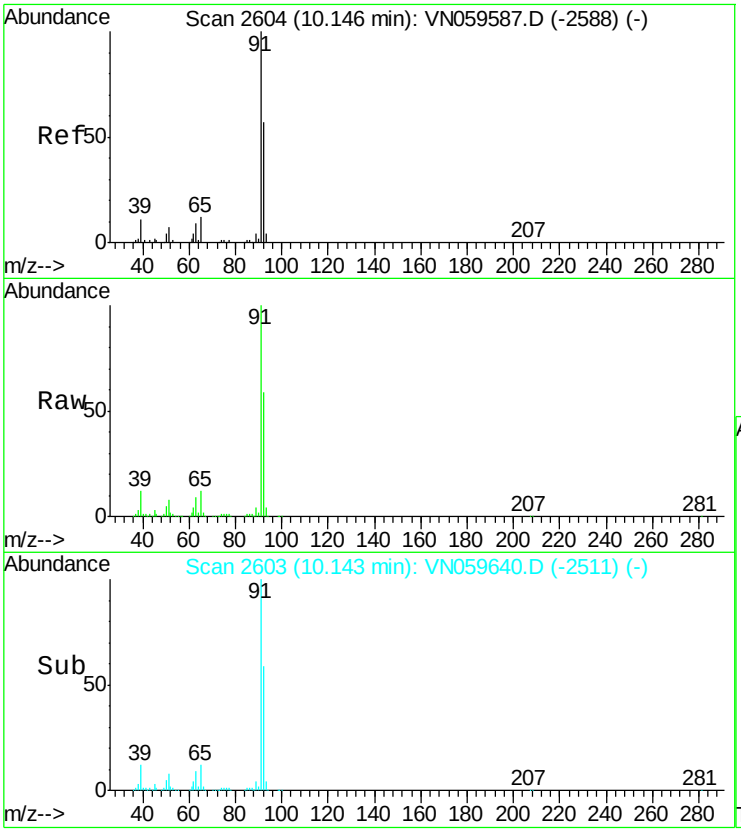




#50
Toluene-d8
Concen: 42.494 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion: 98 Resp: 484039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.0 | 51.2 | 76.8 |



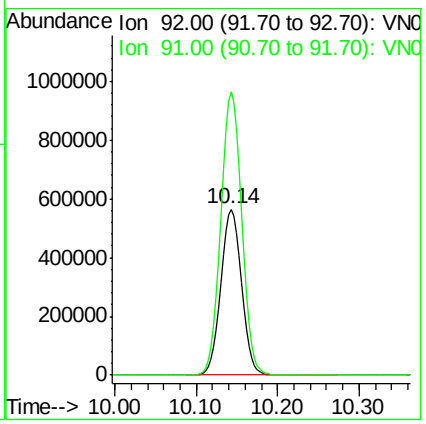


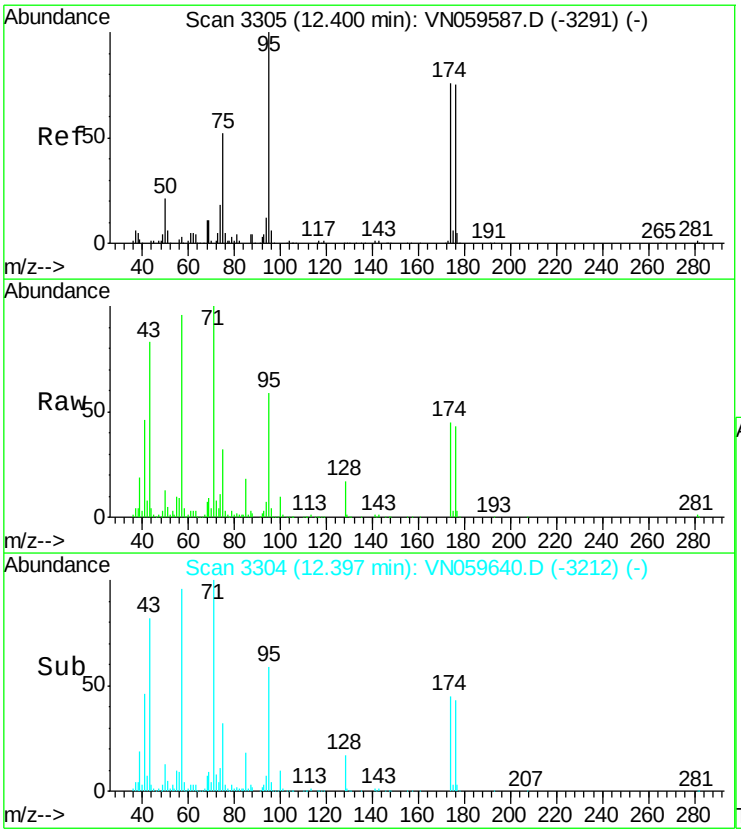

#52
Toluene
Concen: 118.509 ug/l
RT: 10.14 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion: 92 Resp: 1020424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.6 | 140.4 | 210.6 |

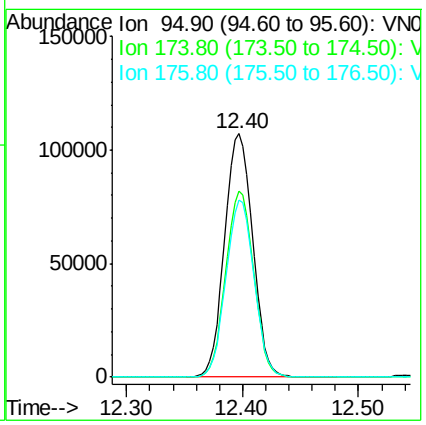


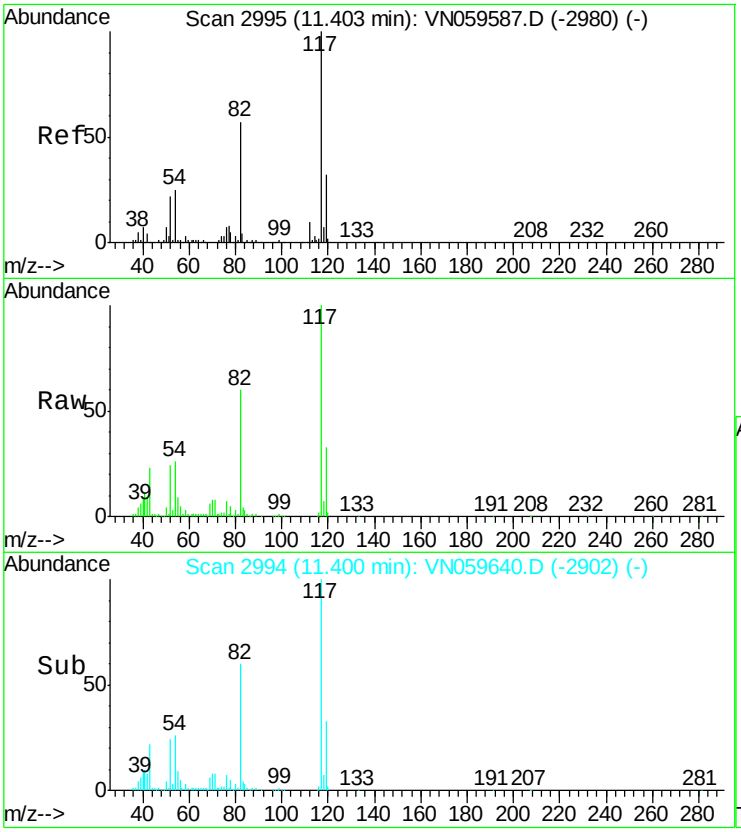




#62
4-Bromofluorobenzene
Concen: 43.230 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion: 95 Resp: 179680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.8 | 0.0 | 151.4 |
| 176 | 72.3 | 0.0 | 146.0 |



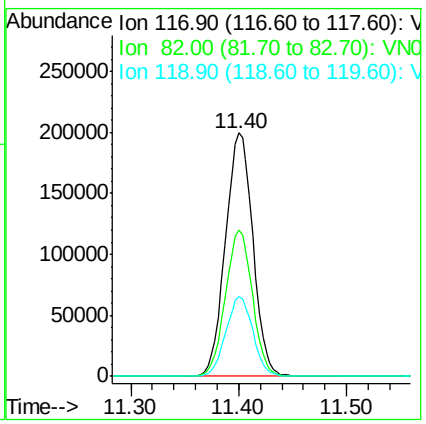


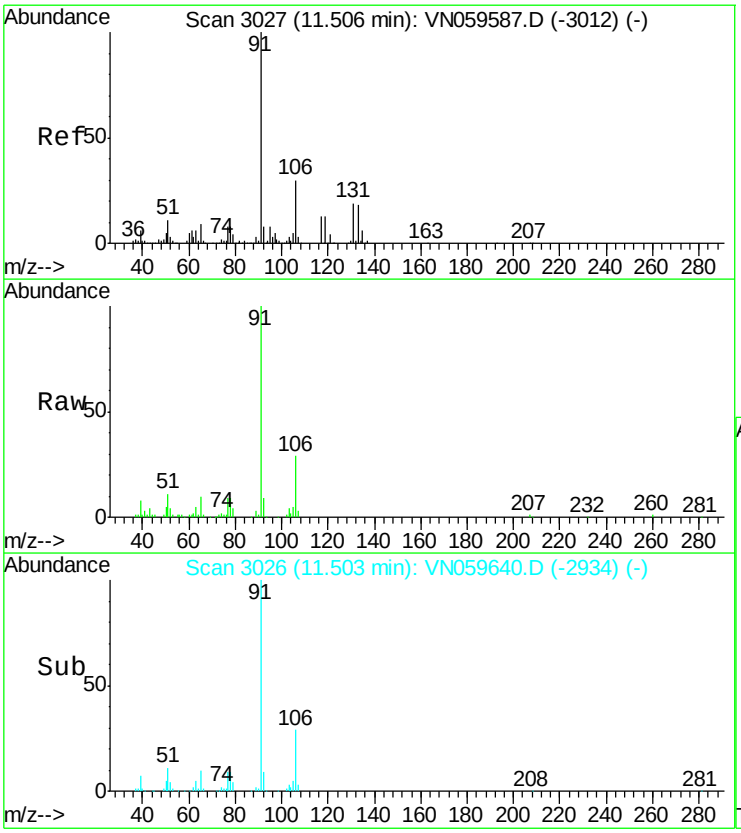

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion:117 Resp: 354657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.2 | 45.9 | 68.9 |
| 119 | 32.7 | 25.5 | 38.3 |

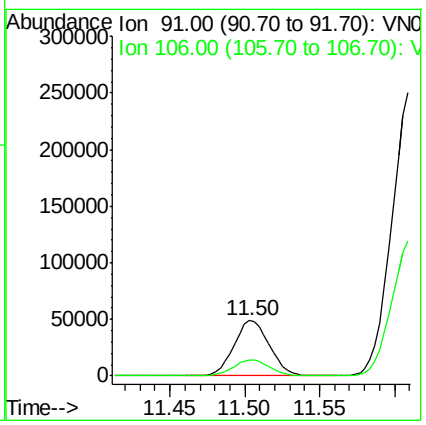


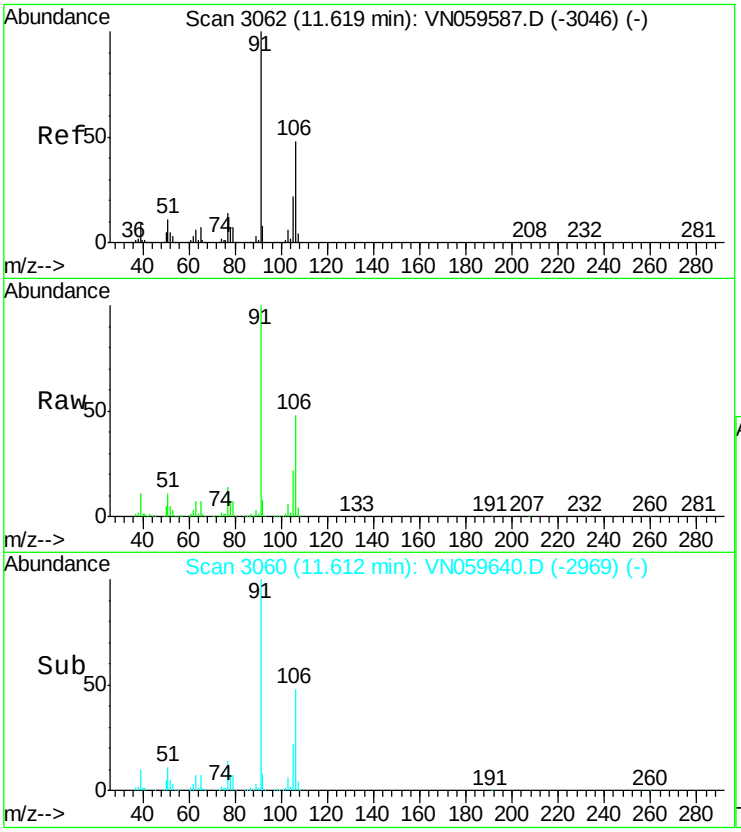




#67
Ethyl Benzene
Concen: 5.868 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion: 91 Resp: 81281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 24.1 | 36.1 |



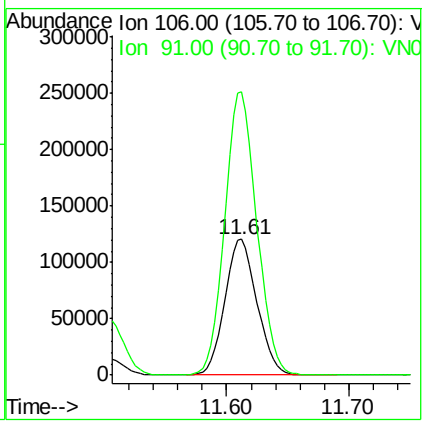


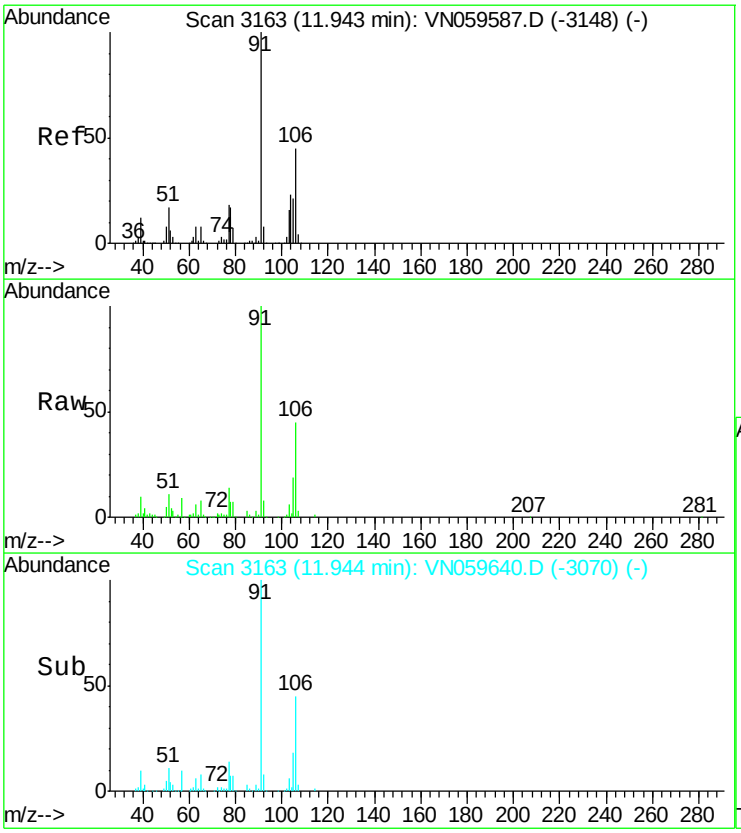

#68
m/p-Xylenes
Concen: 43.285 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.01 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion:106 Resp: 221402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.7 | 167.9 | 251.9 |

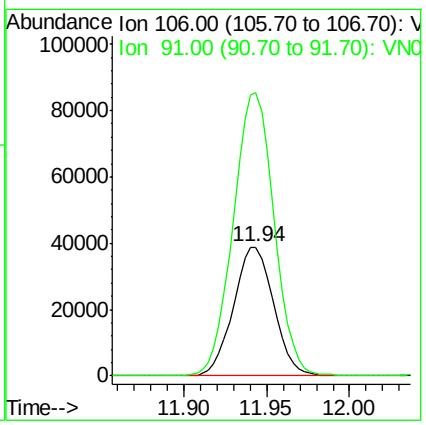


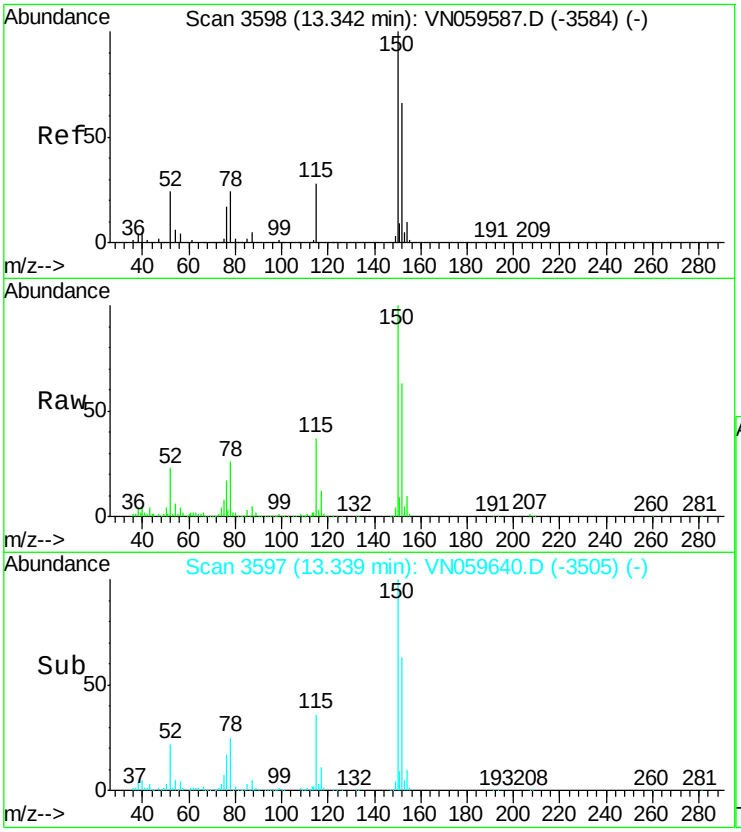




#69
o-Xylene
Concen: 13.450 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion:106 Resp: 65463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 223.2 | 110.3 | 330.9 |



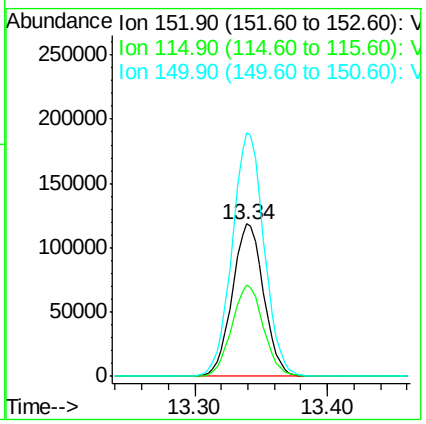


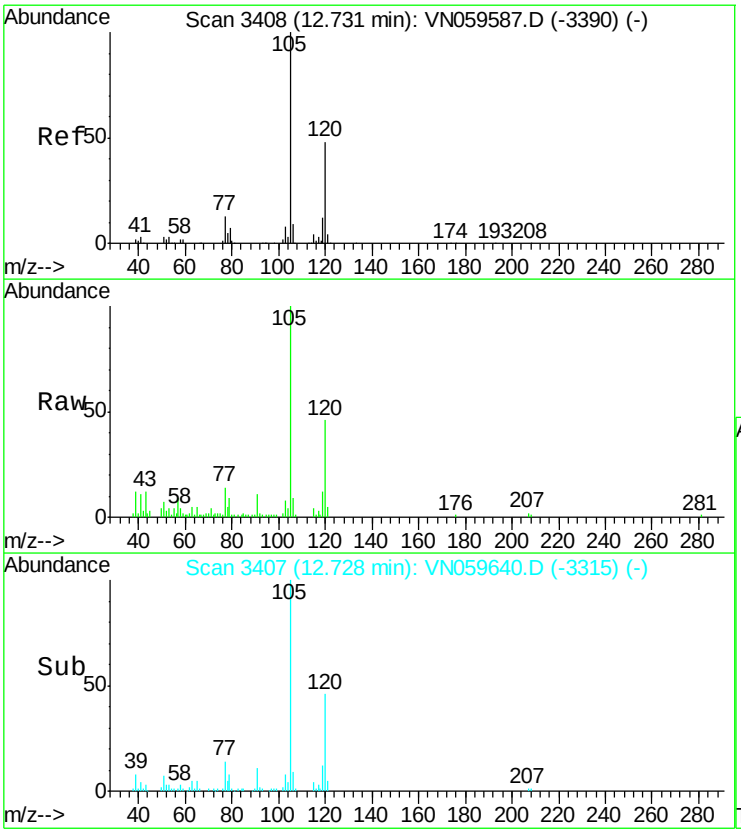

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion:152 Resp: 194706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.1 | 30.3 | 90.9 |
| 150 | 162.2 | 0.0 | 345.2 |

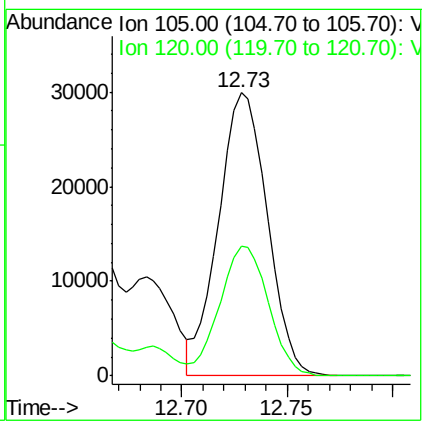


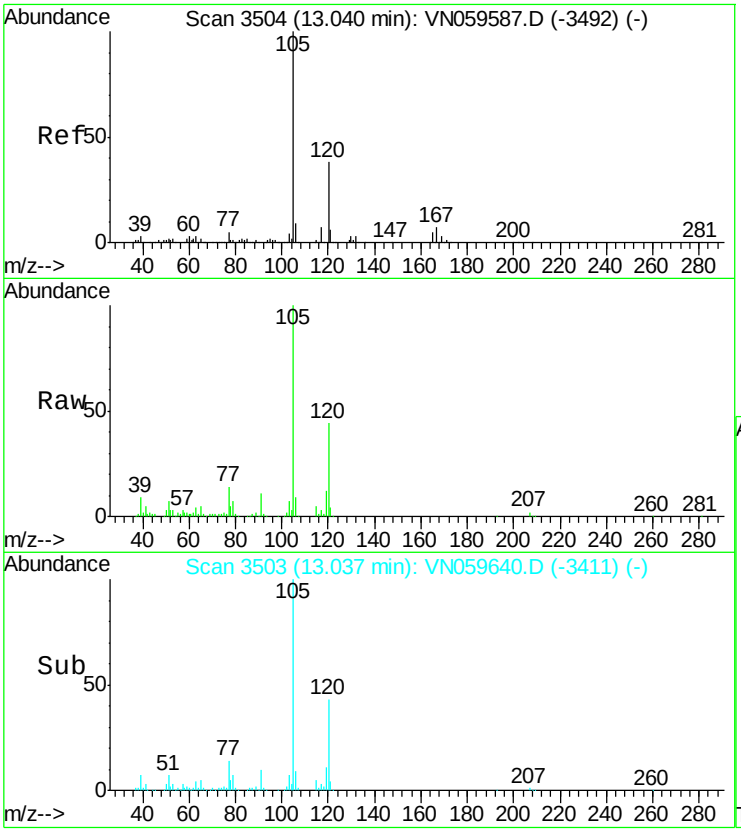




#80
1,3,5-Trimethylbenzene
Concen: 3.725 ug/l
RT: 12.73 min Scan# 3407
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion:105 Resp: 48181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 24.1 | 72.4 |



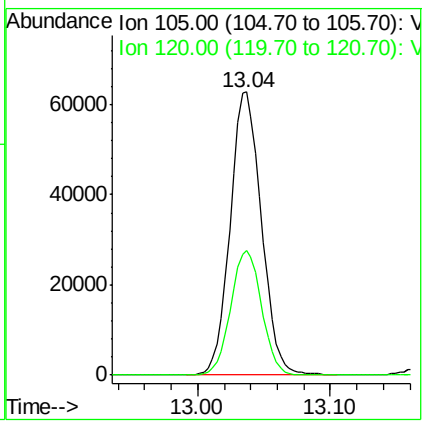


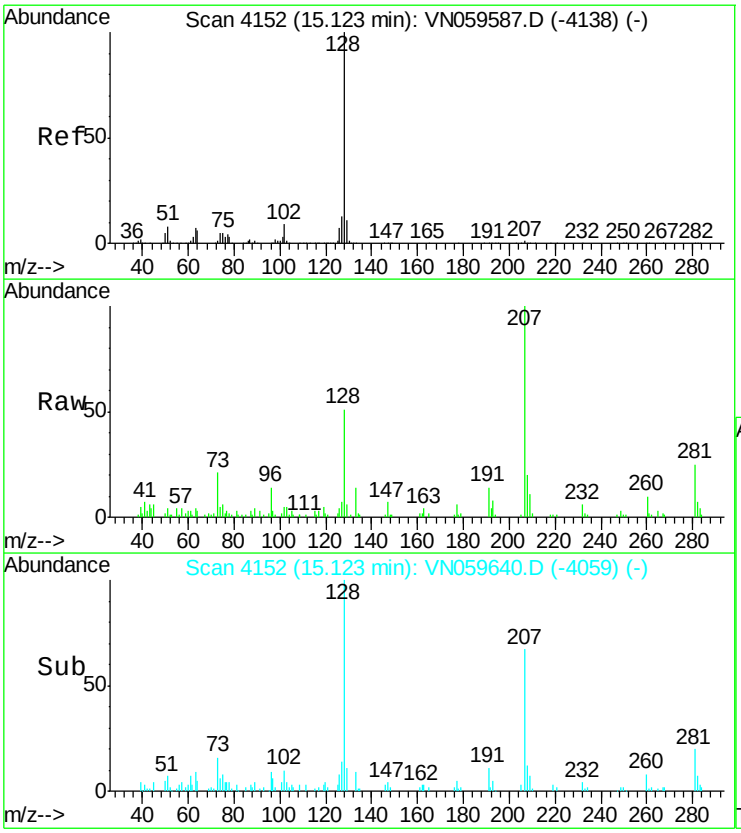

#84
1,2,4-Trimethylbenzene
Concen: 7.978 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

**Instrument :** MSVOA_N
**ClientSampleId :** 30784

Tgt Ion:105 Resp: 102603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 22.3 | 66.9 |




#95
Naphthalene
Concen: 1.180 ug/l
RT: 15.12 min Scan# 4152
Delta R.T. 0.00 min
Lab File: VN059640.D
Acq: 17 Dec 2019 21:00

Tgt Ion:128 Resp: 15502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.8 | 10.4 | 15.6 |
| 129 | 11.5 | 8.6 | 12.8 |