Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD102418\
Data File : VD060180.D
Acq On : 24 Oct 2018 14:25
Operator : JC/SY
Sample : J5622-03
Misc : 4.91g/5ml/MSVOA_D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** KG-V23608

Quant Time: Oct 25 04:03:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 6.41 | 168 | 1093108 | 50.00 | ug/l | 0.02 |
| 34) 1,4-Difluorobenzene | 7.44 | 114 | 1747173 | 50.00 | ug/l | 0.02 |
| 63) Chlorobenzene-d5 | 11.28 | 117 | 861662 | 50.00 | ug/l | 0.01 |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152 | 180847 | 50.00 | ug/l | 0.01 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 6.78 | 65 | 562266 | 67.86 | ug/l | 0.02 |
| Spiked Amount 50.000 | | | Recovery = 135.72% | | | |
| 35) Dibromofluoromethane | 6.32 | 113 | 700246 | 52.78 | ug/l | 0.02 |
| Spiked Amount 50.000 | | | Recovery = 105.56% | | | |
| 50) Toluene-d8 | 9.45 | 98 | 1295777 | 34.25 | ug/l | 0.01 |
| Spiked Amount 50.000 | | | Recovery = 68.50% | | | |
| 62) 4-Bromofluorobenzene | 12.48 | 95 | 23235 | 1.64 | ug/l | 0.06 |
| Spiked Amount 50.000 | | | Recovery = 3.28% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 16) Acetone | 3.16 | 43 | 82991 | 55.198 | ug/l | 96 |
| 17) Carbon Disulfide | 3.33 | 76 | 21352 | 1.424 | ug/l | 99 |
| 20) Methylene Chloride | 3.72 | 84 | 191766 | 13.023 | ug/l | 94 |
| 25) 2-Butanone | 5.62 | 43 | 33316 | 8.870 | ug/l | 95 |
| 29) Tetrahydrofuran | 5.95 | 42 | 11874 | 5.442 | ug/l # | 89 |
| 52) Toluene | 9.55 | 92 | 34847 | 1.239 | ug/l | 93 |
| 68) m/p-Xylenes | 11.57 | 106 | 22652 | 2.007 | ug/l | 95 |
| 69) o-Xylene | 11.93 | 106 | 14919 | 1.337 | ug/l | 84 |
| 73) Isopropylbenzene | 12.27 | 105 | 16643 | 1.395 | ug/l | 85 |
| 78) n-propylbenzene | 12.64 | 91 | 15853 | 1.070 | ug/l | 88 |
| 80) 1,3,5-Trimethylbenzene | 12.80 | 105 | 32884 | 3.561 | ug/l | 98 |
| 83) tert-Butylbenzene | 13.04 | 119 | 19312 | 1.823 | ug/l | 87 |
| 84) 1,2,4-Trimethylbenzene | 13.09 | 105 | 103152 | 10.599 | ug/l | 91 |
| 85) sec-Butylbenzene | 13.22 | 105 | 102774 | 8.203 | ug/l | 99 |
| 86) p-Isopropyltoluene | 13.34 | 119 | 171814 | 16.720 | ug/l | 96 |
| 89) n-Butylbenzene | 13.65 | 91 | 89881 | 8.964 | ug/l | 94 |

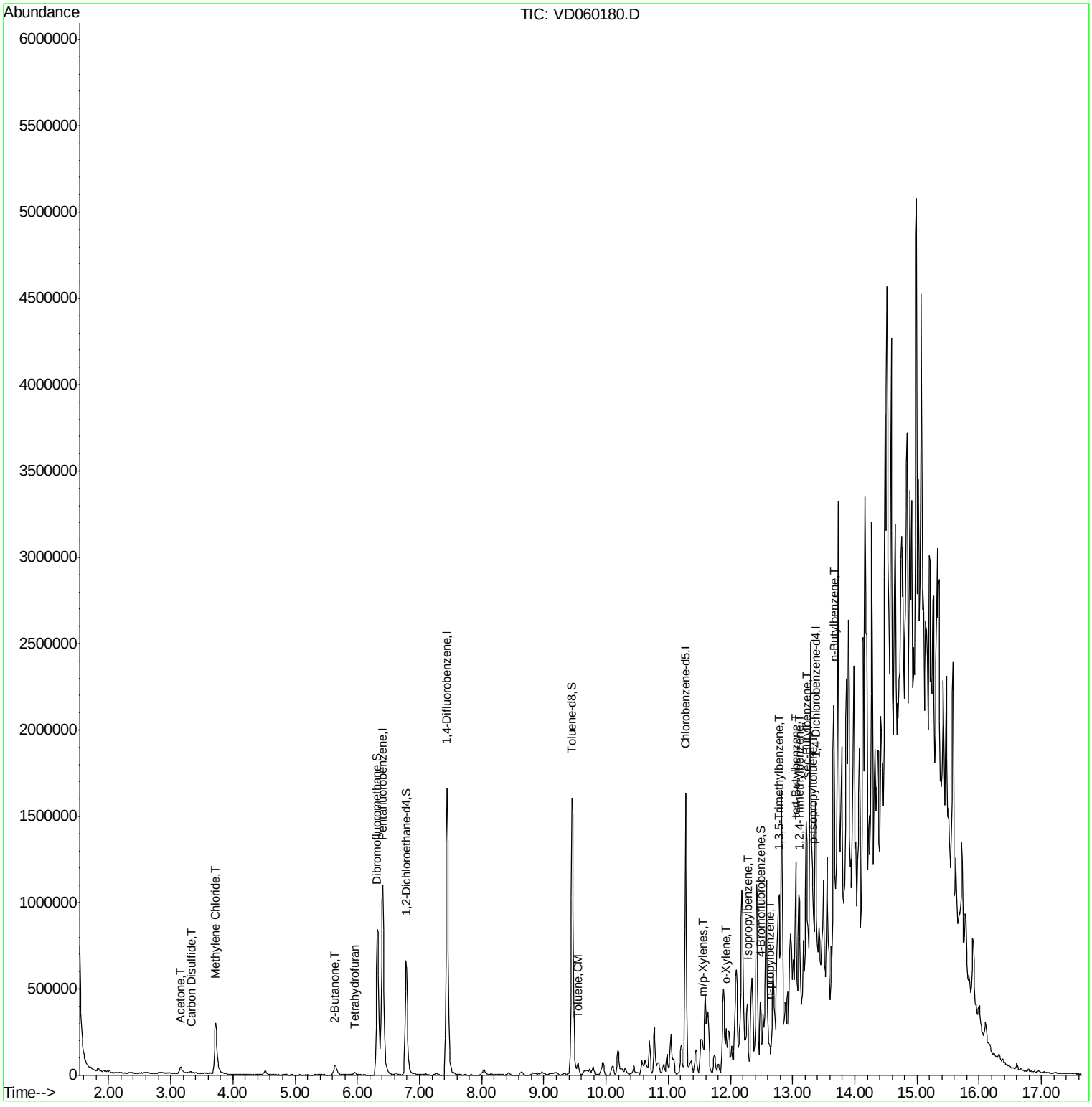
(#) = qualifier out of range (m) = manual integration (+) = signals summed

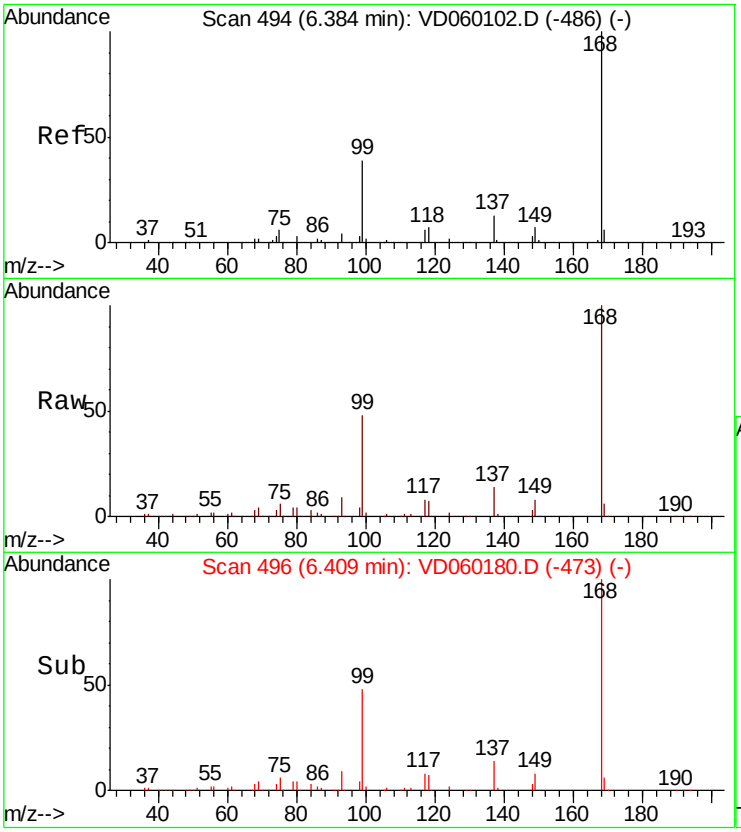
Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\
Data File : VD060180.D
Acq On : 24 Oct 2018 14:25
Operator : JC/SY
Sample : J5622-03
Misc : 4.91g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Quant Time: Oct 25 04:03:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration



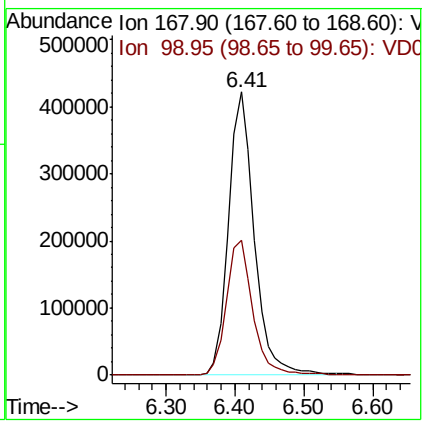


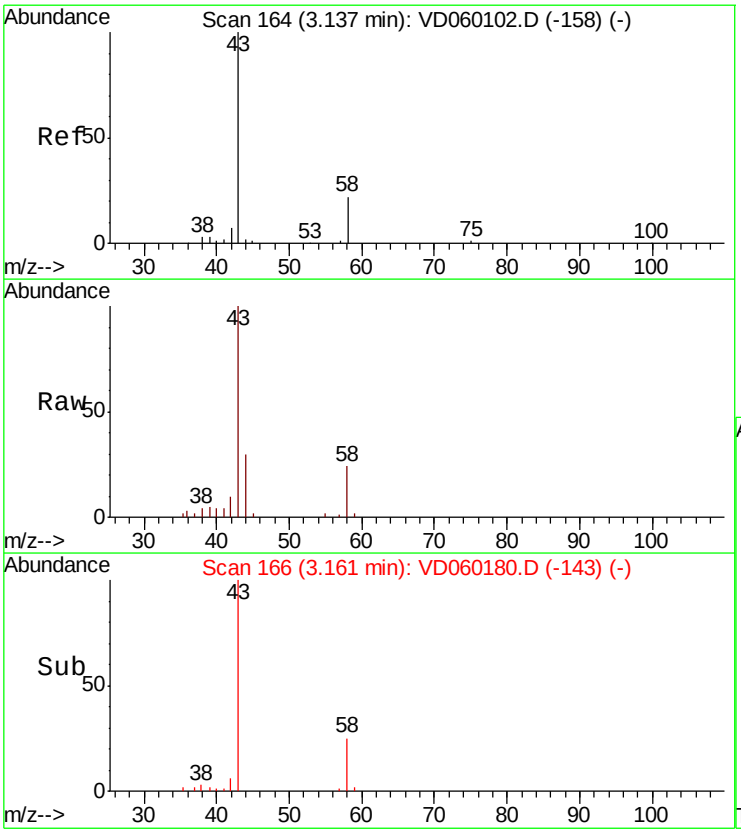

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 6.41 min Scan# 496
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :** MSVOA_D
**ClientSampleId :** KG-V23608

Tgt Ion:168 Resp: 1093108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 47.8 | 35.4 | 53.0 |

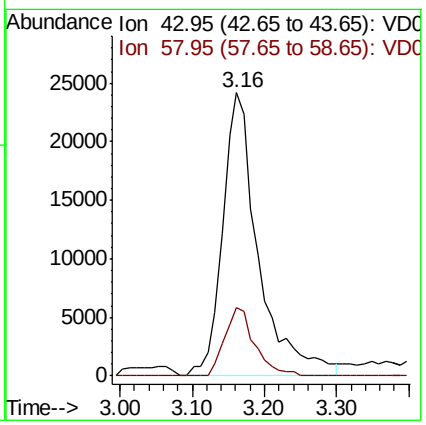


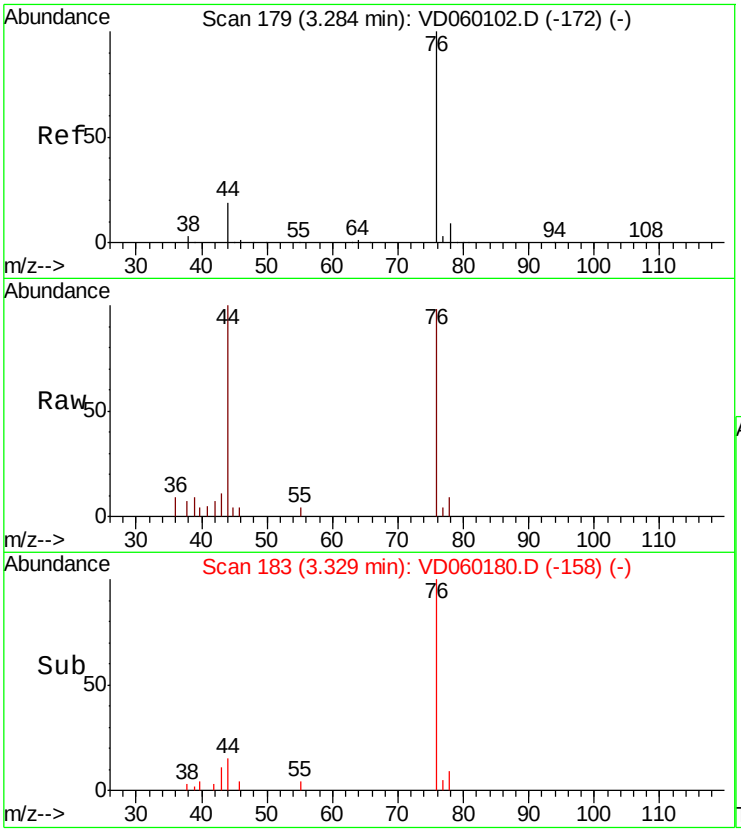




#16
Acetone
Concen: 55.198 ug/l
RT: 3.16 min Scan# 166
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion: 43 Resp: 82991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.2 | 17.7 | 26.5 |



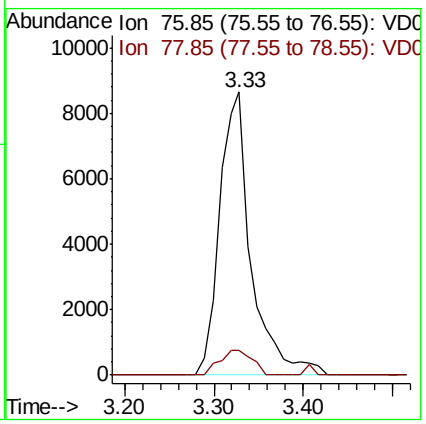


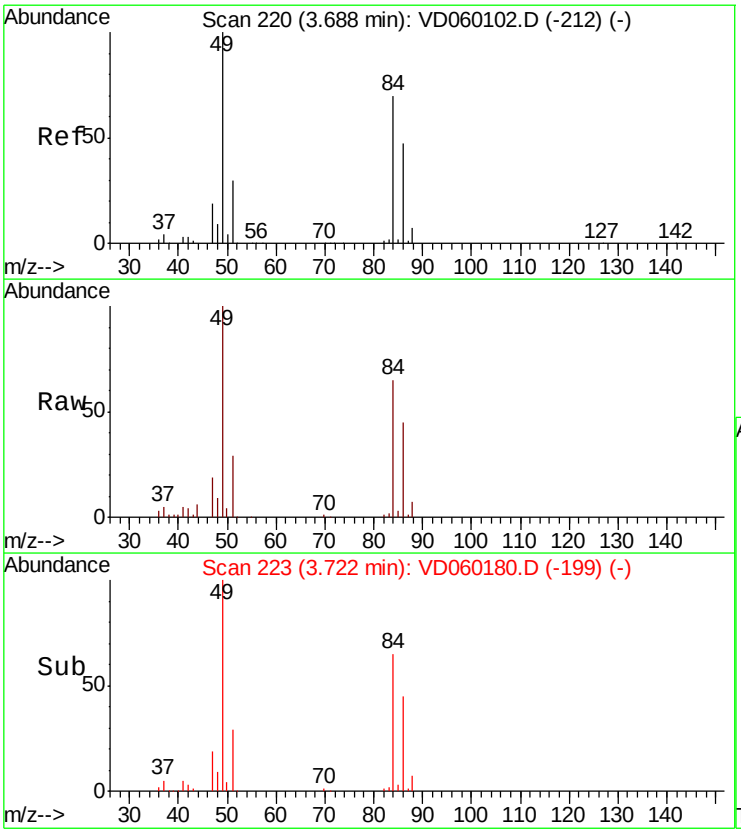

#17
Carbon Disulfide
Concen: 1.424 ug/l
RT: 3.33 min Scan# 183
Delta R.T. 0.04 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :** MSVOA_D
**ClientSampleId :** KG-V23608

Tgt Ion: 76 Resp: 21352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.2 |

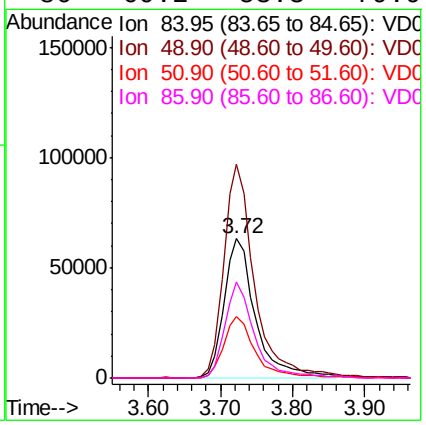


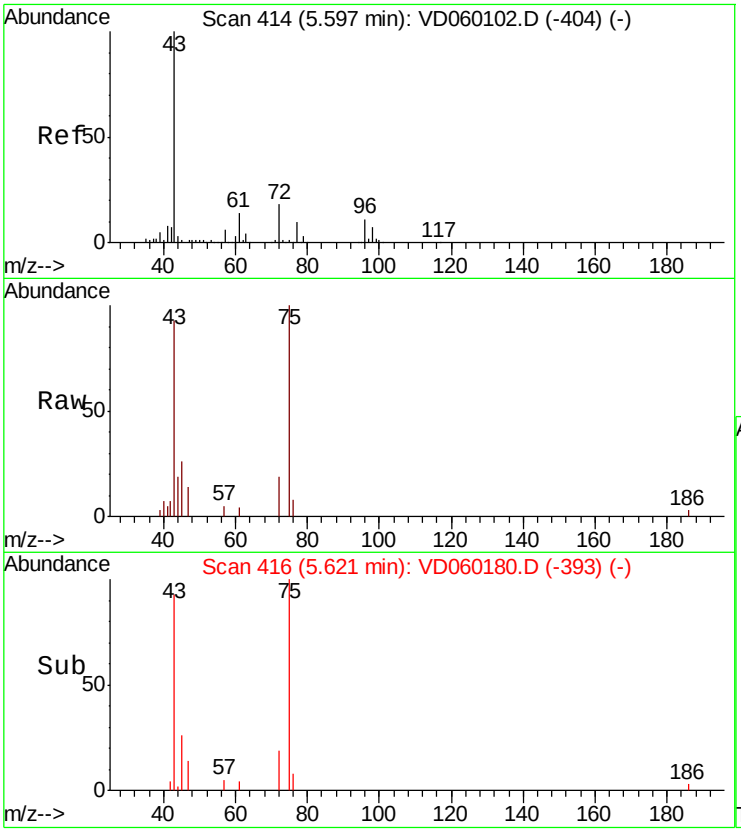




#20
Methylene Chloride
Concen: 13.023 ug/l
RT: 3.72 min Scan# 223
Delta R.T. 0.04 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion: 84 Resp: 191766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 153.3 | 114.6 | 172.0 |
| 51 | 44.4 | 33.8 | 50.8 |
| 86 | 69.2 | 53.3 | 79.9 |



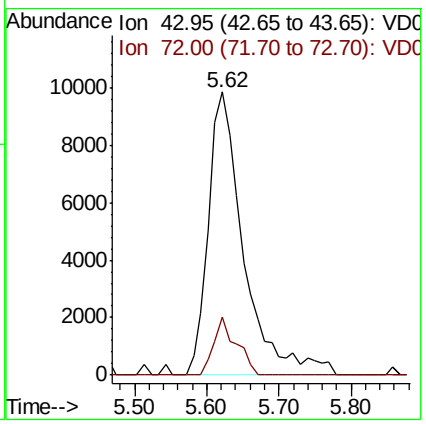


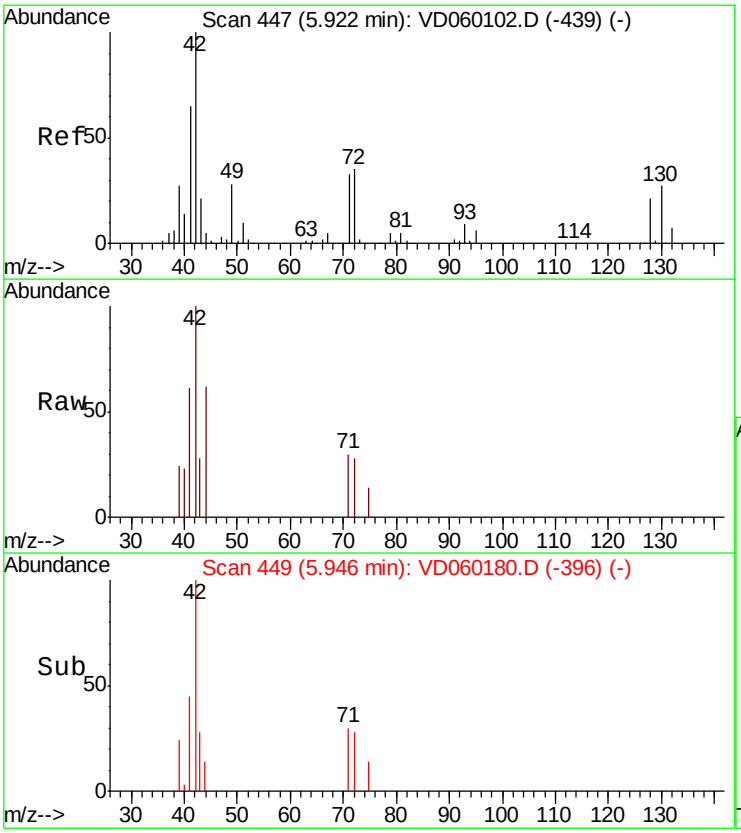

#25
2-Butanone
Concen: 8.870 ug/l
RT: 5.62 min Scan# 416
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Tgt Ion: 43 Resp: 33316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.5 | 14.5 | 21.7 |

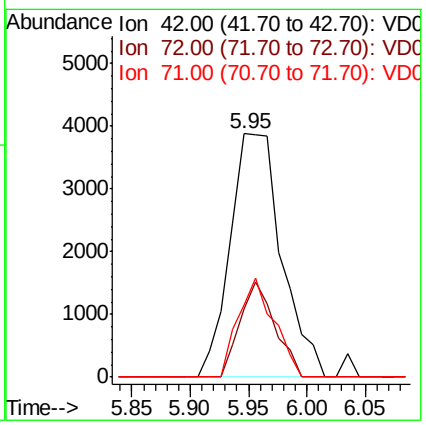


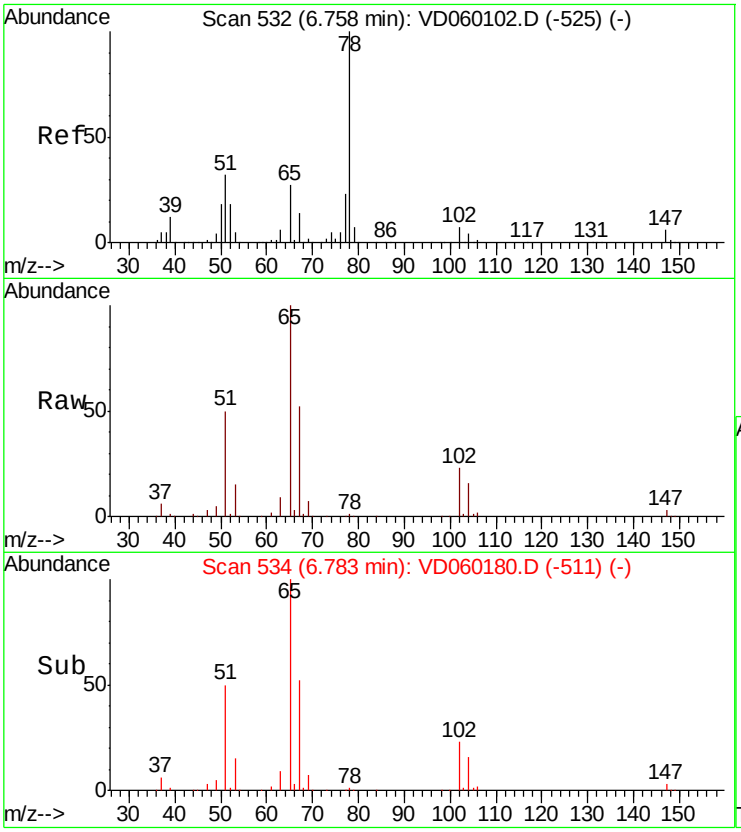




#29
Tetrahydrofuran
Concen: 5.442 ug/l
RT: 5.95 min Scan# 449
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion: 42 Resp: 11874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 26.6 | 26.9 | 40.3# |
| 71 | 28.3 | 26.7 | 40.1 |



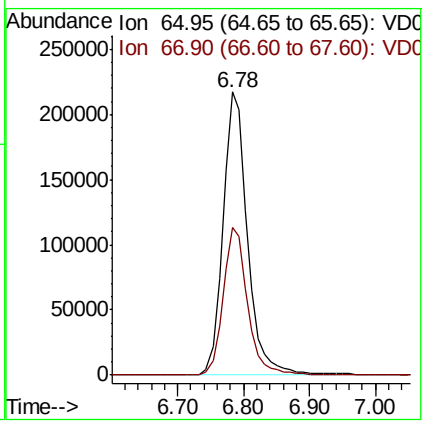


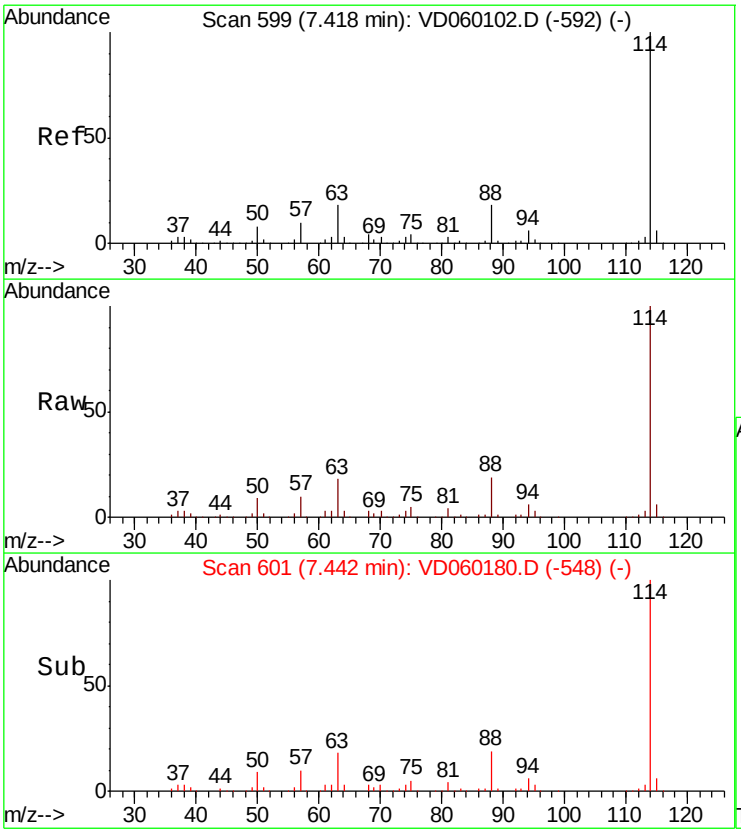

#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.78 min Scan# 534
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :** MSVOA_D
**ClientSampleId :** KG-V23608

Tgt Ion: 65 Resp: 562266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.0 | 0.0 | 106.2 |

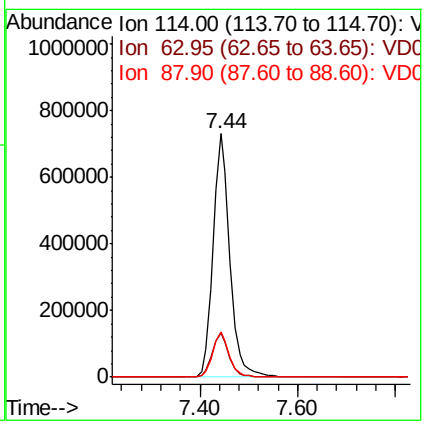


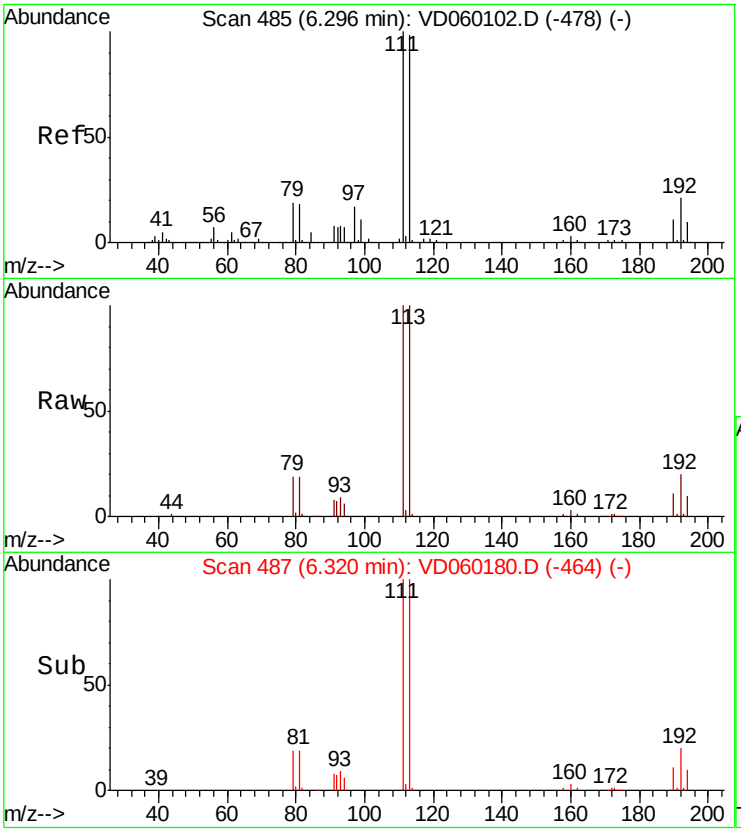




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.44 min Scan# 601
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion:114 Resp: 1747173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.2 | 0.0 | 36.0 |
| 88 | 18.6 | 0.0 | 36.2 |



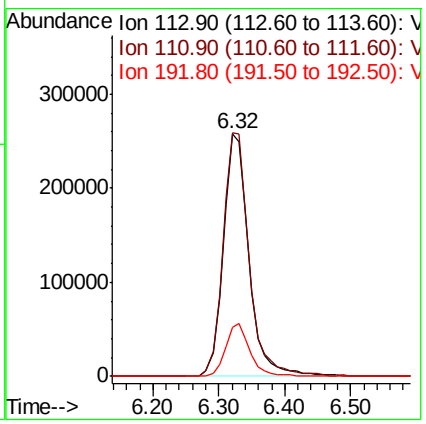


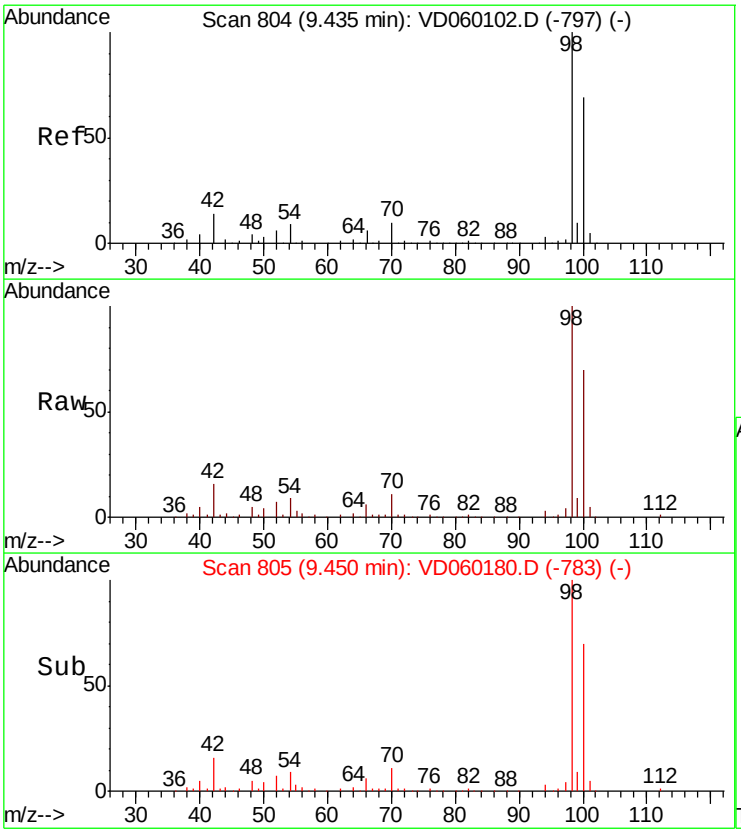

#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.32 min Scan# 487
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Tgt Ion:113 Resp: 700246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.4 | 81.5 | 122.3 |
| 192 | 20.2 | 17.4 | 26.0 |

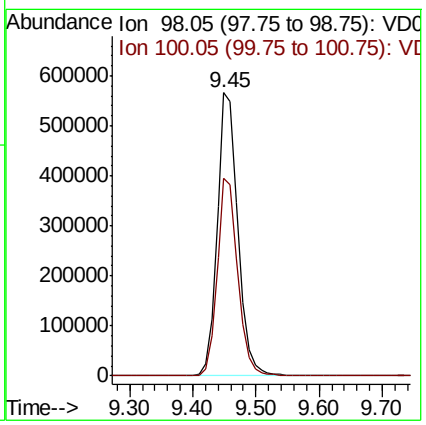


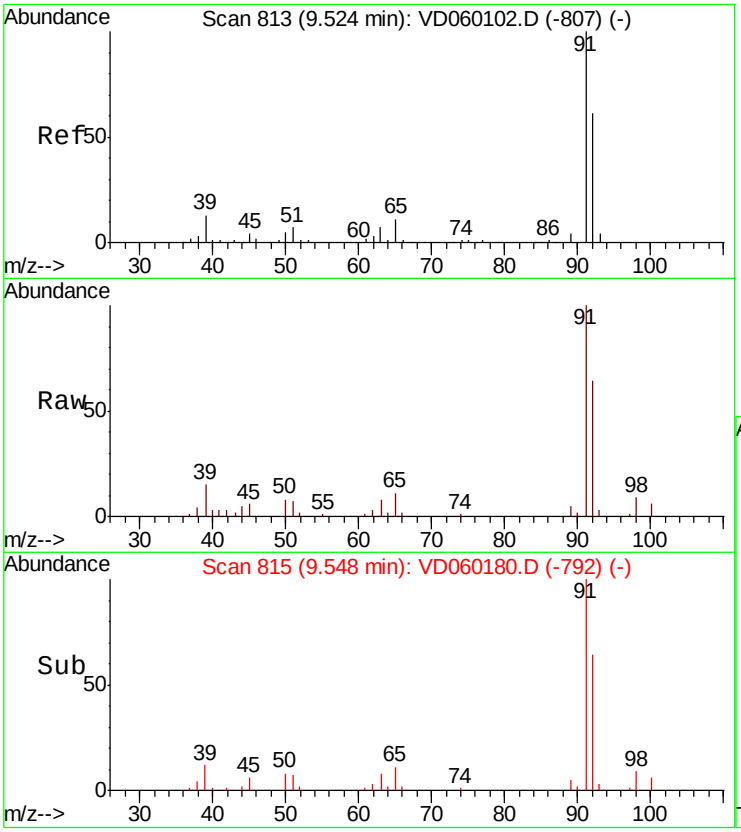




#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 805
Delta R.T. 0.01 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion: 98 Resp: 1295777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 69.9 | 55.4 | 83.0 |



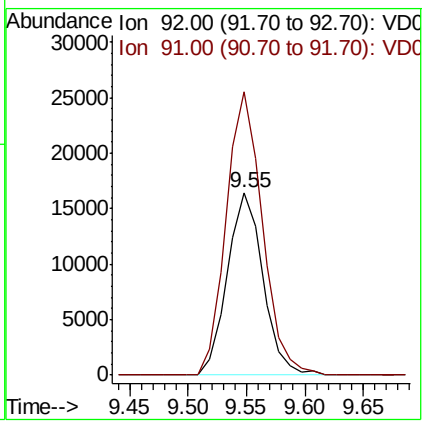


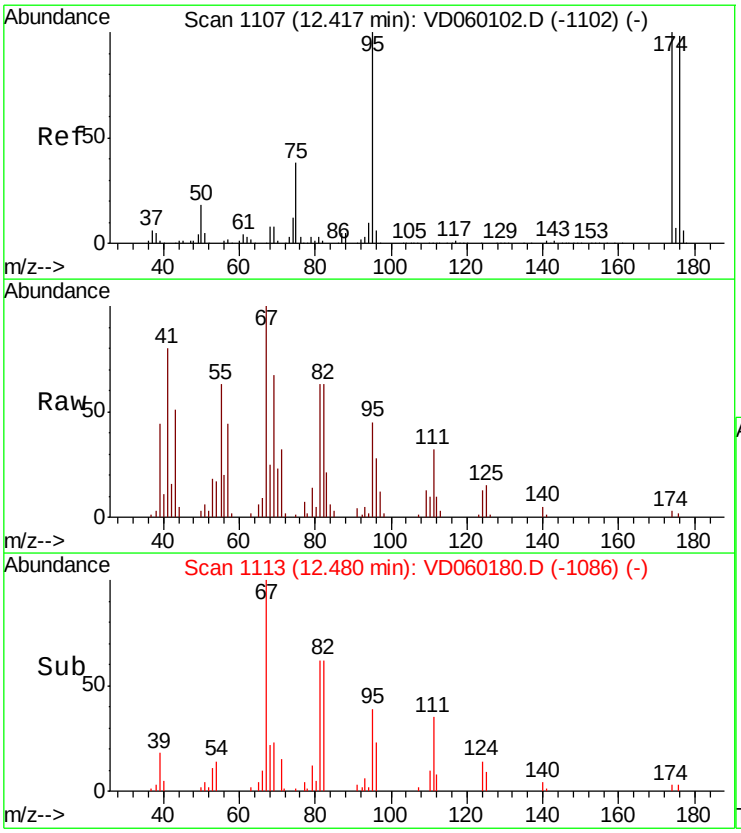

#52
Toluene
Concen: 1.239 ug/l
RT: 9.55 min Scan# 815
Delta R.T. 0.02 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :** MSVOA_D
**ClientSampleId :** KG-V23608

Tgt Ion: 92 Resp: 34847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 155.1 | 131.9 | 197.9 |

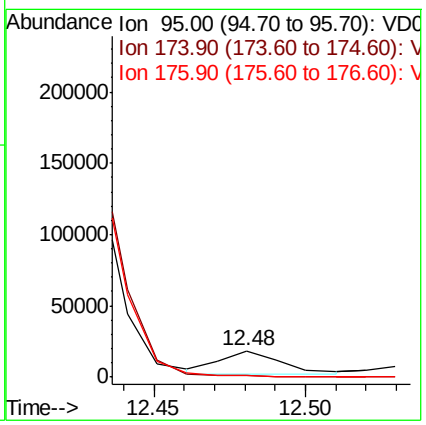


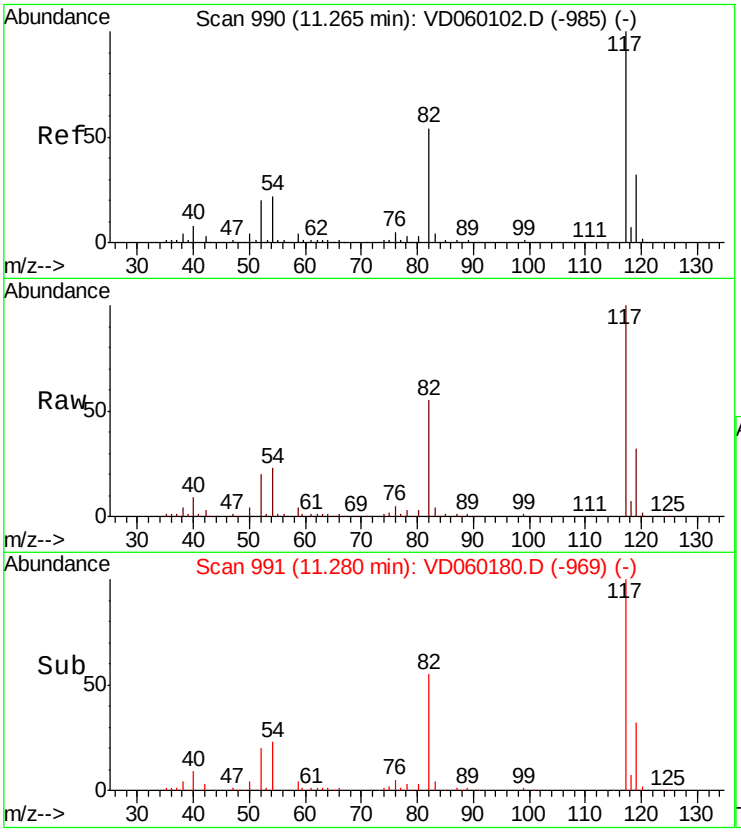




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.48 min Scan# 1113
Delta R.T. 0.06 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion: 95 Resp: 23235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 6.0 | 0.0 | 200.2 |
| 176 | 5.3 | 0.0 | 195.6 |



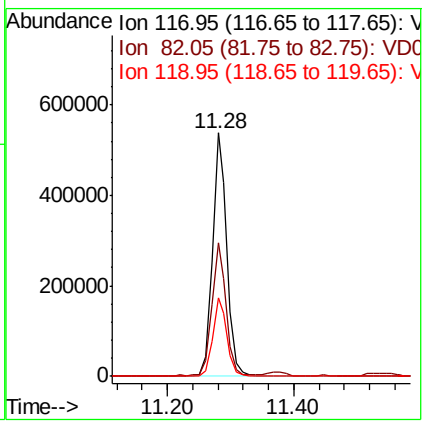


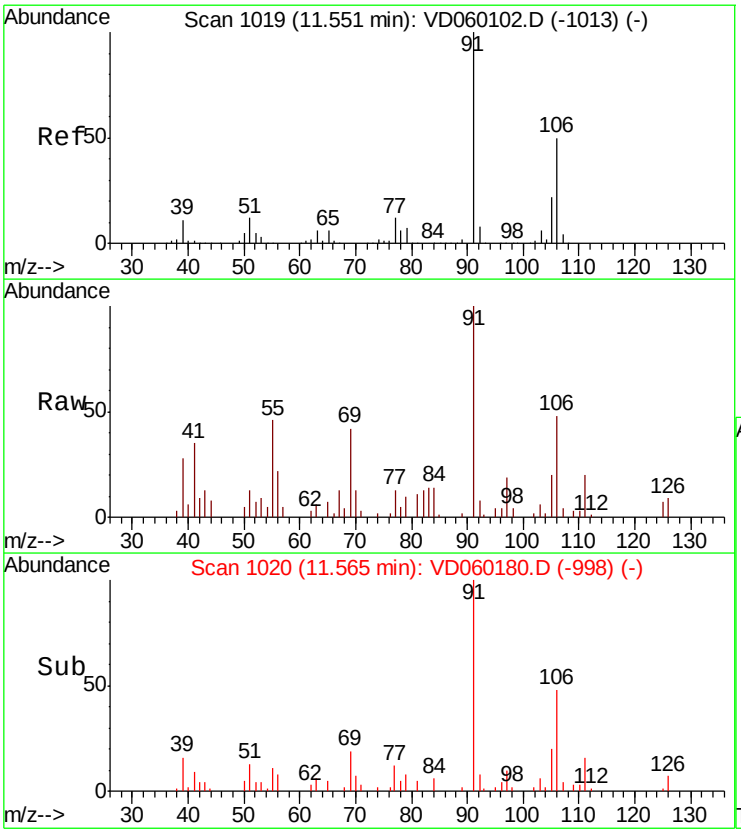

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :** MSVOA_D
**ClientSampleId :** KG-V23608

Tgt Ion:117 Resp: 861662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.6 | 43.4 | 65.2 |
| 119 | 32.5 | 26.0 | 39.0 |

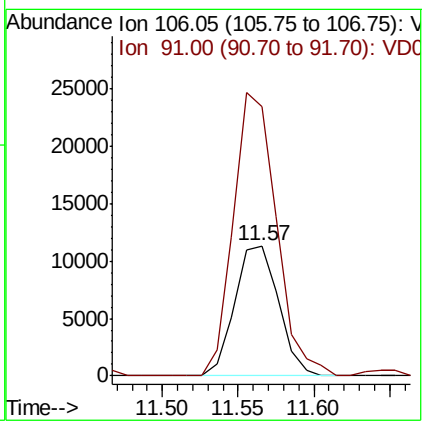


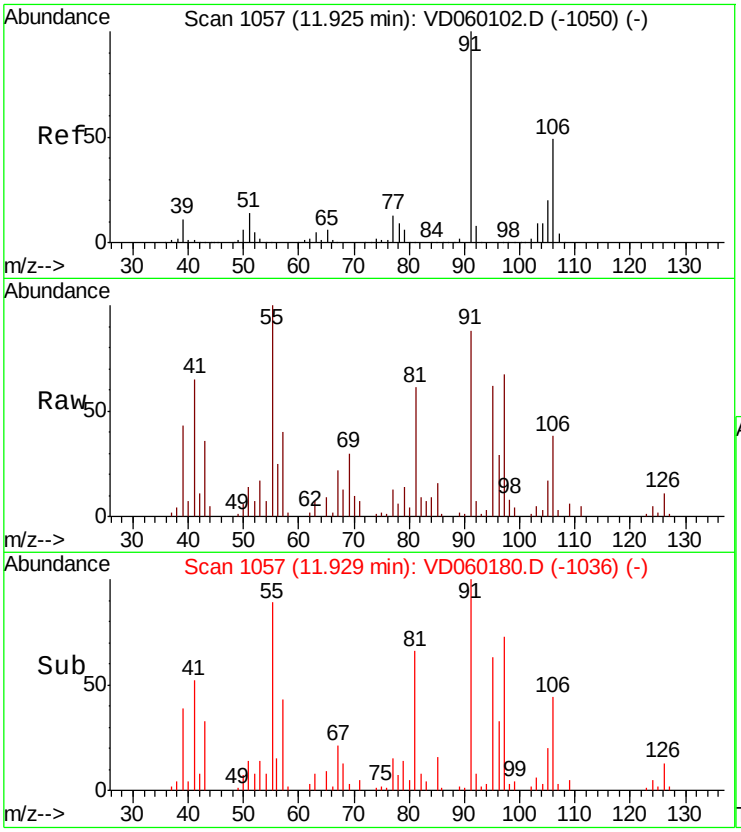




#68
m/p-Xylenes
Concen: 2.007 ug/l
RT: 11.57 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion:106 Resp: 22652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 160.0 | 240.0 |



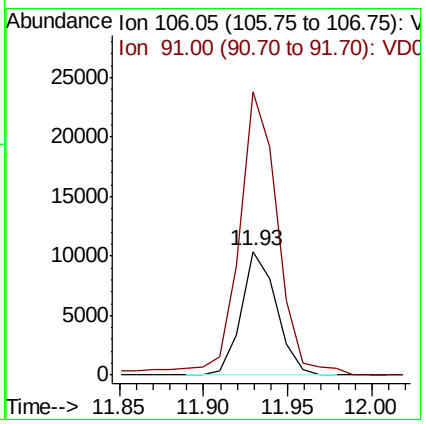


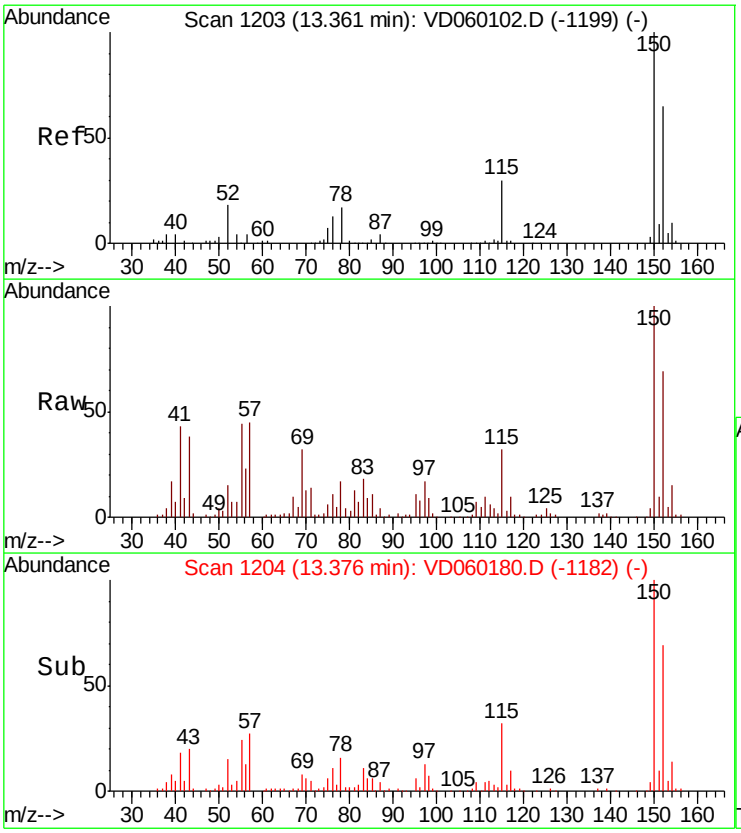

#69
o-Xylene
Concen: 1.337 ug/l
RT: 11.93 min Scan# 1057
Delta R.T. 0.00 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Tgt Ion:106 Resp: 14919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 228.9 | 102.5 | 307.5 |

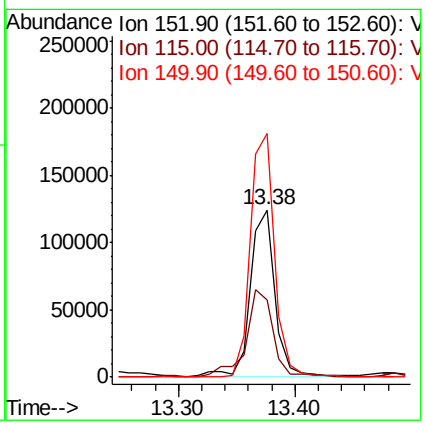


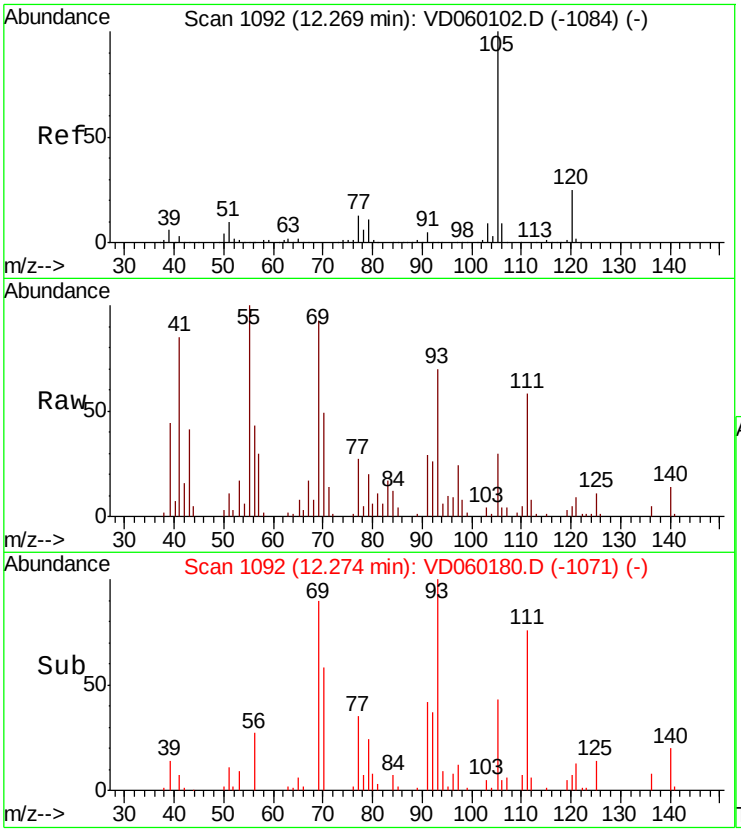




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion:152 Resp: 180847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 45.9 | 27.1 | 81.2 |
| 150 | 145.8 | 0.0 | 311.8 |



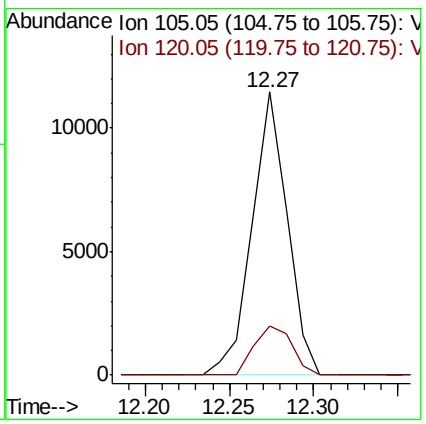


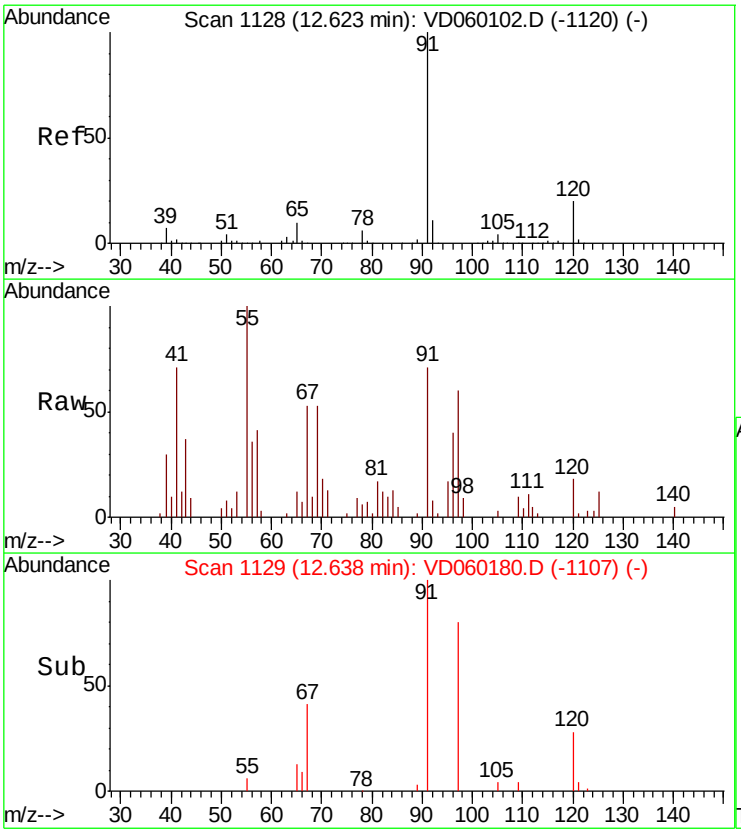

#73
Isopropylbenzene
Concen: 1.395 ug/l
RT: 12.27 min Scan# 1092
Delta R.T. 0.00 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Tgt Ion:105 Resp: 16643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 17.5 | 12.6 | 37.6 |

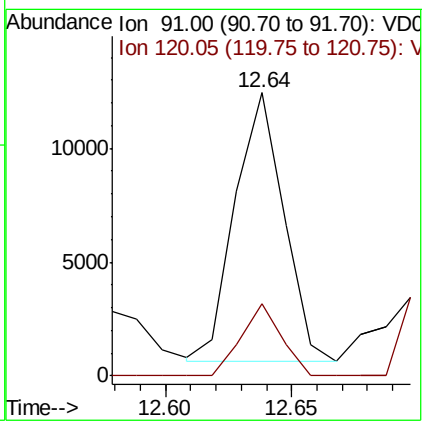


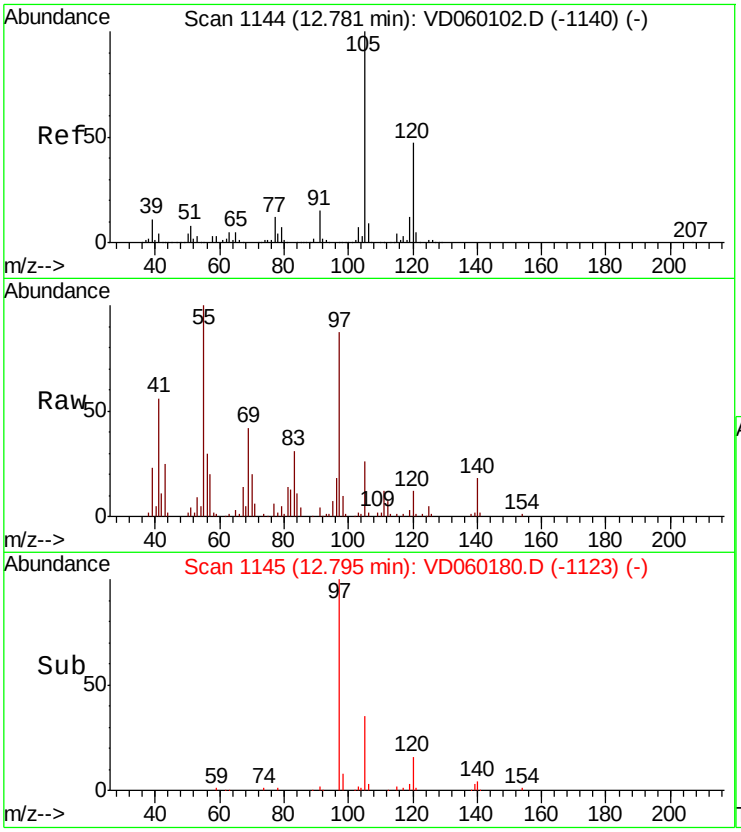




#78
n-propylbenzene
Concen: 1.070 ug/l
RT: 12.64 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion: 91 Resp: 15853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 25.5 | 10.0 | 30.0 |



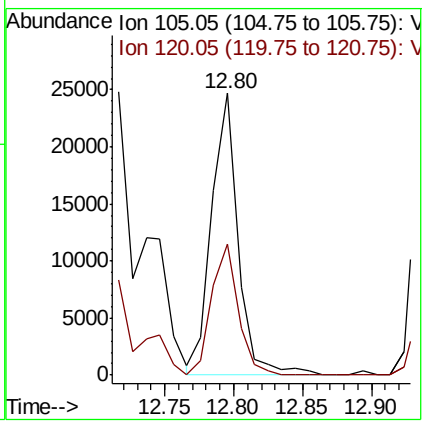


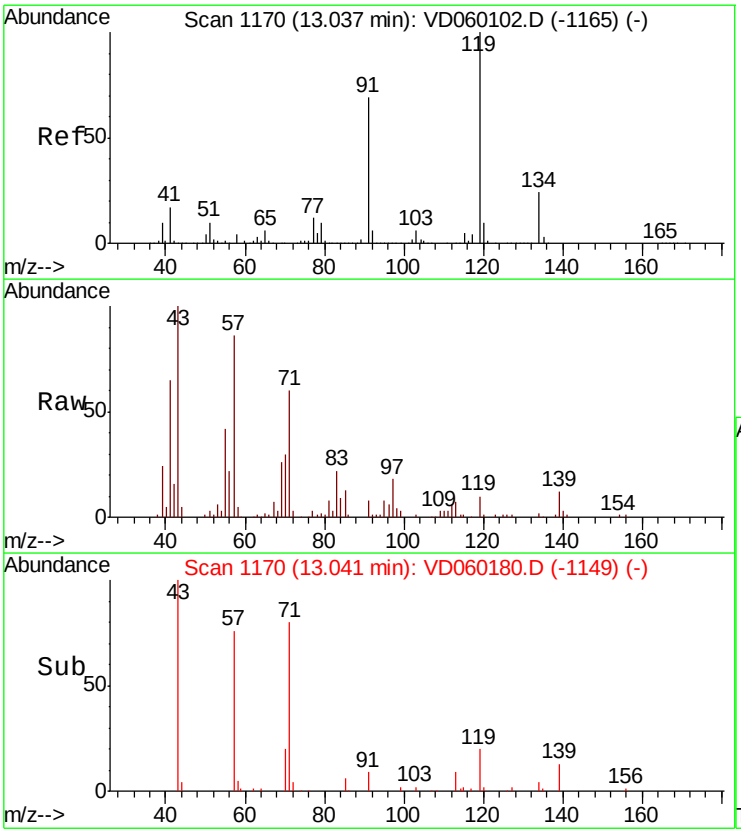

#80
1,3,5-Trimethylbenzene
Concen: 3.561 ug/l
RT: 12.80 min Scan# 1145
Delta R.T. 0.01 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Tgt Ion:105 Resp: 32884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.7 | 71.1 |

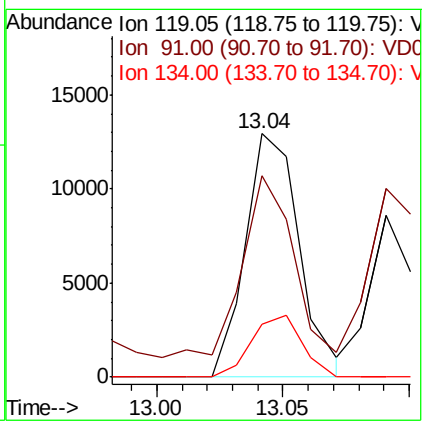


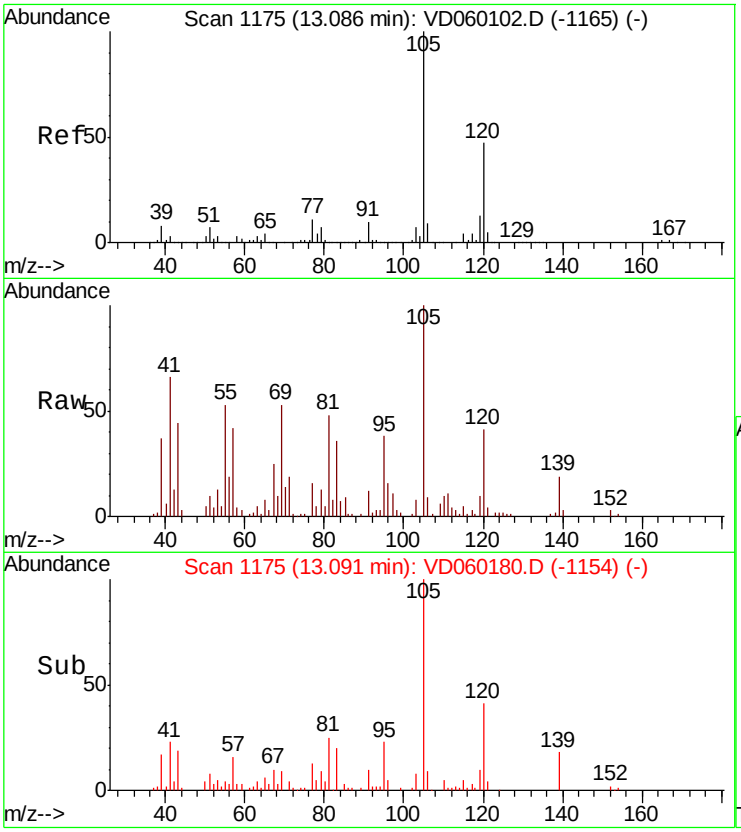




#83
tert-Butylbenzene
Concen: 1.823 ug/l
RT: 13.04 min Scan# 1170
Delta R.T. 0.00 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion:119 Resp: 19312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.5 | 34.8 | 104.4 |
| 134 | 21.8 | 11.8 | 35.4 |



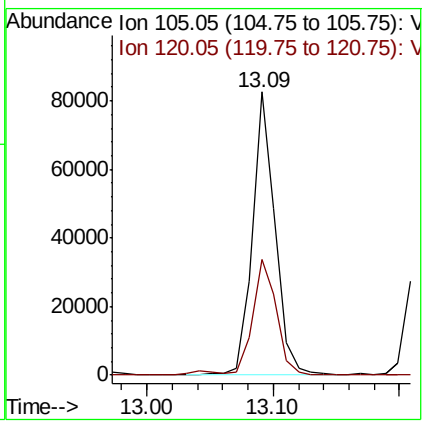


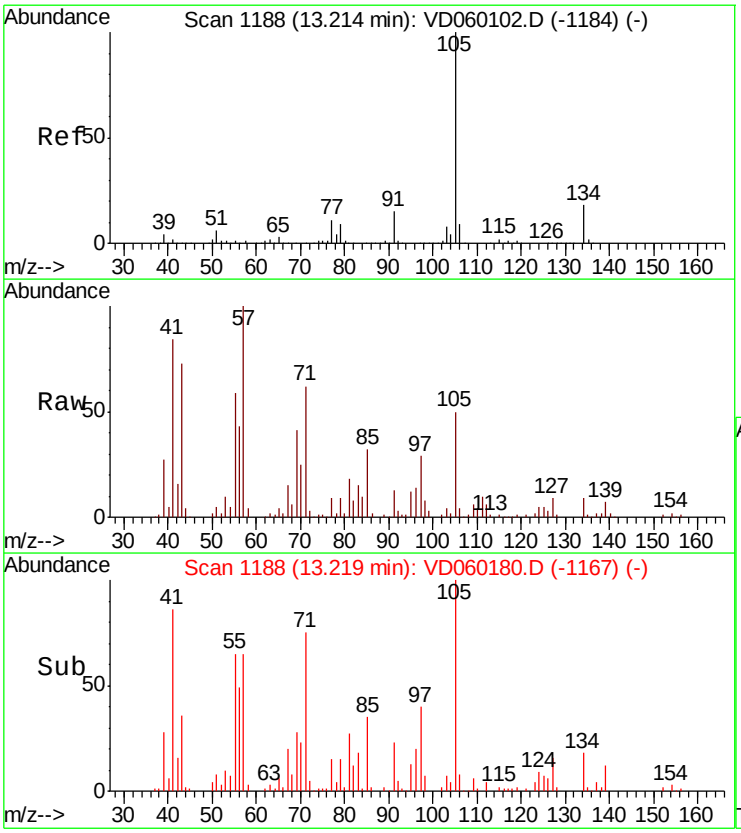

#84
1,2,4-Trimethylbenzene
Concen: 10.599 ug/l
RT: 13.09 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Tgt Ion:105 Resp: 103152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.0 | 23.4 | 70.0 |

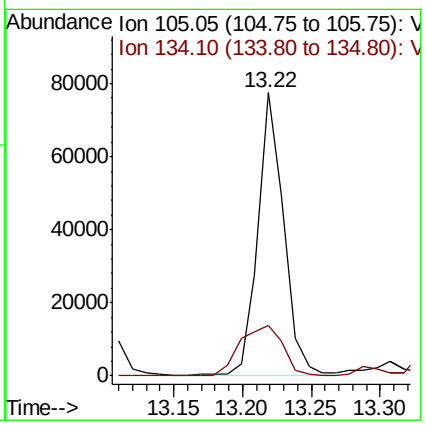


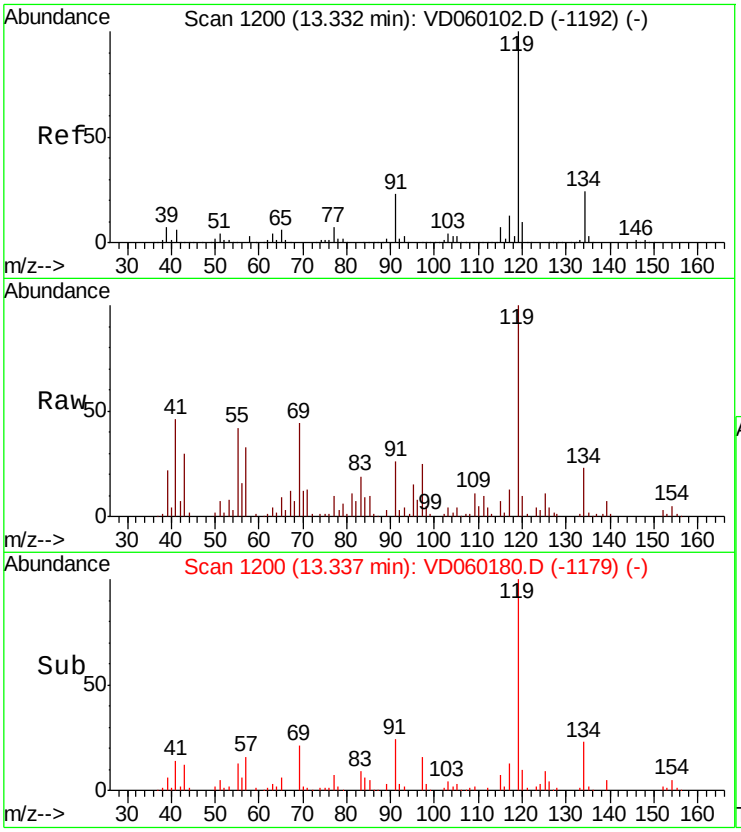




#85
sec-Butylbenzene
Concen: 8.203 ug/l
RT: 13.22 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion:105 Resp: 102774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.9 | 8.8 | 26.2 |



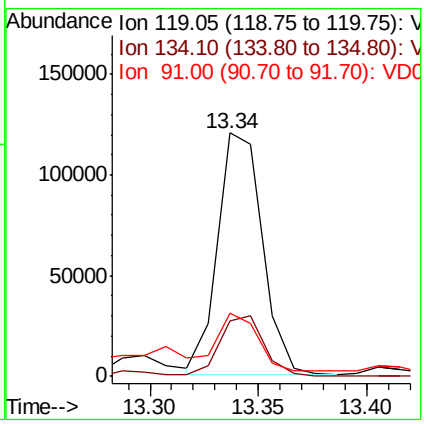


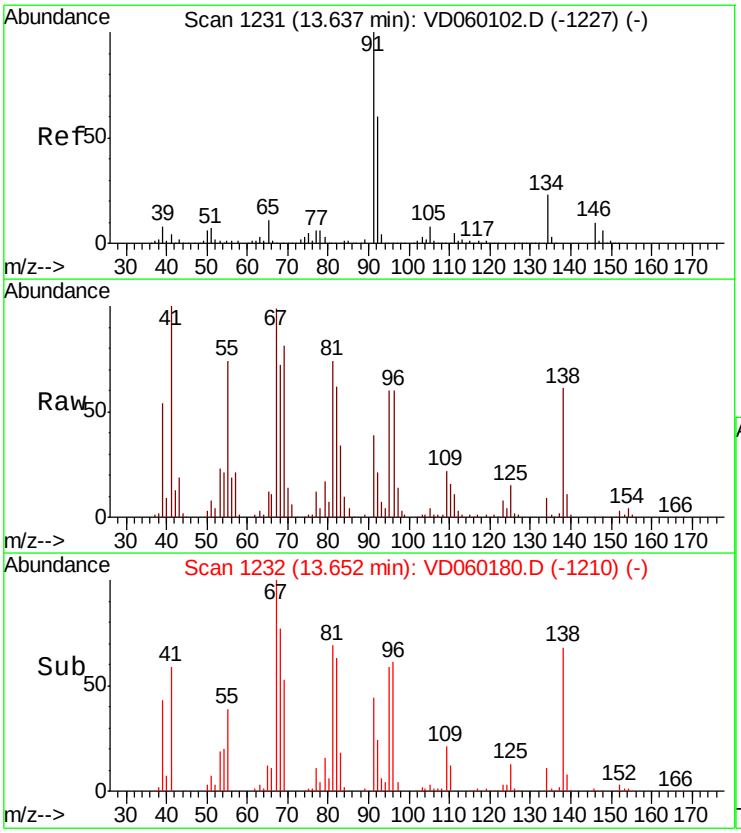

#86
p-Isopropyltoluene
Concen: 16.720 ug/l
RT: 13.34 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

**Instrument :**
MSVOA_D
**ClientSampleId :**
KG-V23608

Tgt Ion:119 Resp: 171814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.0 | 12.3 | 36.8 |
| 91 | 25.7 | 11.8 | 35.4 |




#89
n-Butylbenzene
Concen: 8.964 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD060180.D
Acq: 24 Oct 2018 14:25

Tgt Ion: 91 Resp: 89881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.5 | 30.1 | 90.3 |
| 134 | 23.1 | 11.6 | 34.7 |