Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122718\
Data File : VF061221.D
Acq On : 27 Dec 2018 21:28
Operator : VA/AP
Sample : J6195-13RE
Misc : 6.55g/5mL/MSVOA-F/SOIL
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** OR-01-122618-B

Quant Time: Dec 27 23:51:56 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 4.85 | 168 | 143037 | 50.00 | ug/l | -0.02 |
| 34) 1,4-Difluorobenzene | 5.58 | 114 | 336953 | 50.00 | ug/l | -0.01 |
| 63) Chlorobenzene-d5 | 9.76 | 117 | 260677 | 50.00 | ug/l | -0.01 |
| 72) 1,4-Dichlorobenzene-d4 | 12.53 | 152 | 109170 | 50.00 | ug/l | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.82 | 65 | 104217 | 56.65 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 113.30% | | | |
| 35) Dibromofluoromethane | 4.10 | 113 | 124313 | 46.06 | ug/l | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 92.12% | | | |
| 50) Toluene-d8 | 7.53 | 98 | 258841 | 33.84 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 67.68% | | | |
| 62) 4-Bromofluorobenzene | 11.40 | 95 | 117512 | 33.32 | ug/l | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 66.64% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 11) Tert butyl alcohol | 2.57 | 59 | 143 | 1.926 | ug/l # | 1 |
| 13) Acrolein | 1.96 | 56 | 192 | 3.579 | ug/l # | 68 |
| 15) Acrylonitrile | 2.90 | 53 | 220 | 1.282 | ug/l # | 14 |
| 16) Acetone | 2.24 | 43 | 8904 | 24.210 | ug/l # | 90 |
| 18) Methyl Acetate | 2.34 | 43 | 4303 | 5.655 | ug/l | 99 |
| 20) Methylene Chloride | 2.26 | 84 | 6547 | 1.185 | ug/l # | 72 |
| 25) 2-Butanone | 4.31 | 43 | 599 | 1.004 | ug/l # | 57 |
| 29) Tetrahydrofuran | 4.04 | 42 | 772 | 3.180 | ug/l # | 37 |
| 37) Ethyl Acetate | 4.08 | 43 | 246 | Below Cal # | | 21 |
| 49) 1,4-Dioxane | 6.22 | 88 | 89 | 8.947 | ug/l # | 23 |
| 52) Toluene | 7.61 | 92 | 17993 | 3.108 | ug/l | 95 |
| 69) o-Xylene | 10.70 | 106 | 9136 | 2.386 | ug/l | 80 |
| 70) Styrene | 10.77 | 104 | 167 | Below Cal # | | 30 |
| 75) 1,1,2,2-Tetrachloroethane | 11.72 | 83 | 2210 | 1.415 | ug/l # | 23 |
| 79) 2-Chlorotoluene | 11.71 | 91 | 7458 | 1.156 | ug/l # | 42 |
| 80) 1,3,5-Trimethylbenzene | 11.81 | 105 | 56133 | 7.246 | ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 12.19 | 105 | 11708 | 1.516 | ug/l | 80 |
| 85) sec-Butylbenzene | 12.30 | 105 | 13839 | 1.330 | ug/l | 99 |
| 86) p-Isopropyltoluene | 12.42 | 119 | 51531 | 5.968 | ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 12.45 | 146 | 101 | Below Cal # | | 1 |
| 89) n-Butylbenzene | 12.82 | 91 | 33973 | 3.470 | ug/l # | 1 |
| 95) Naphthalene | 14.45 | 128 | 12400 | 2.645 | ug/l # | 1 |

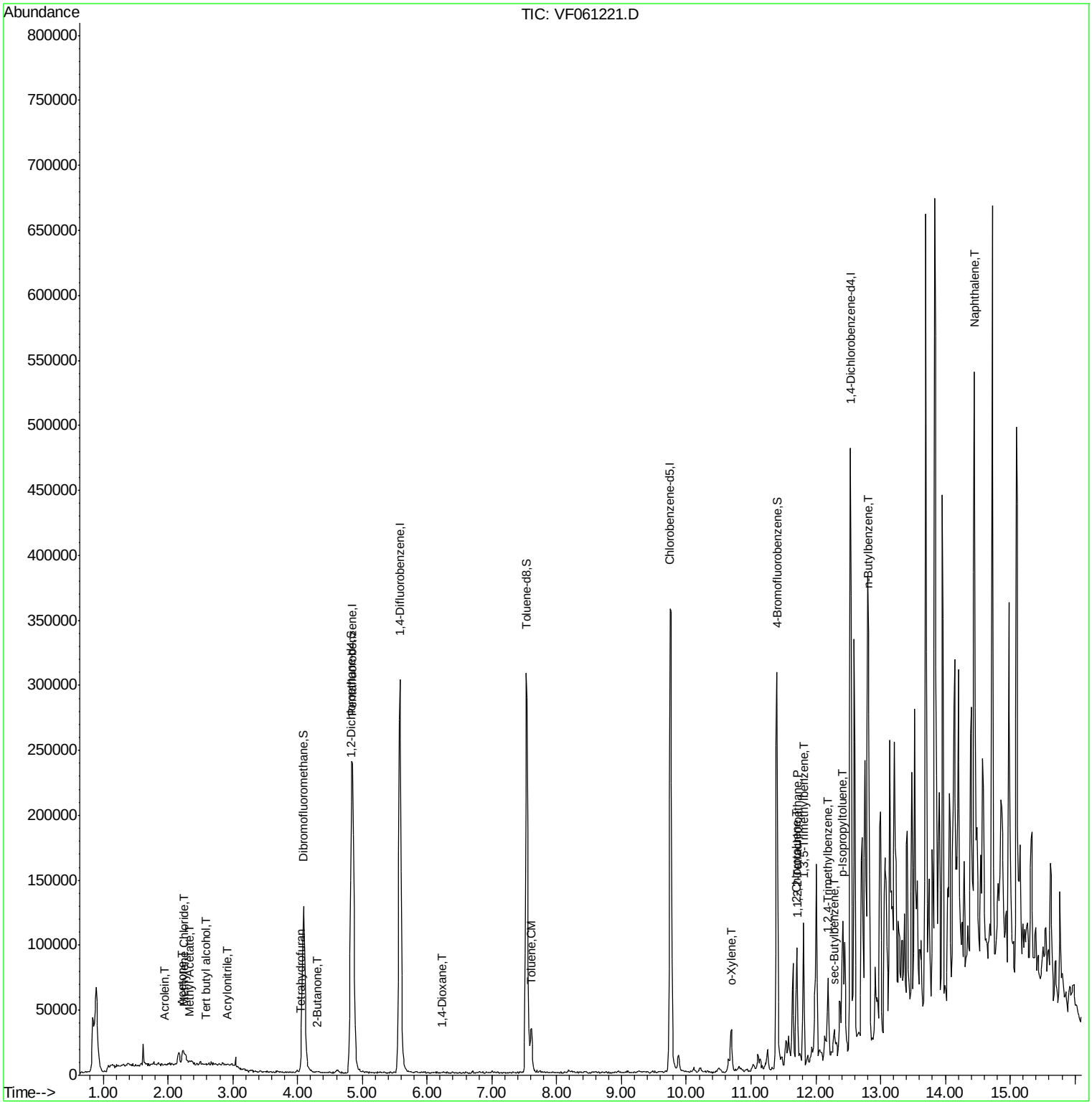
(#) = qualifier out of range (m) = manual integration (+) = signals summed

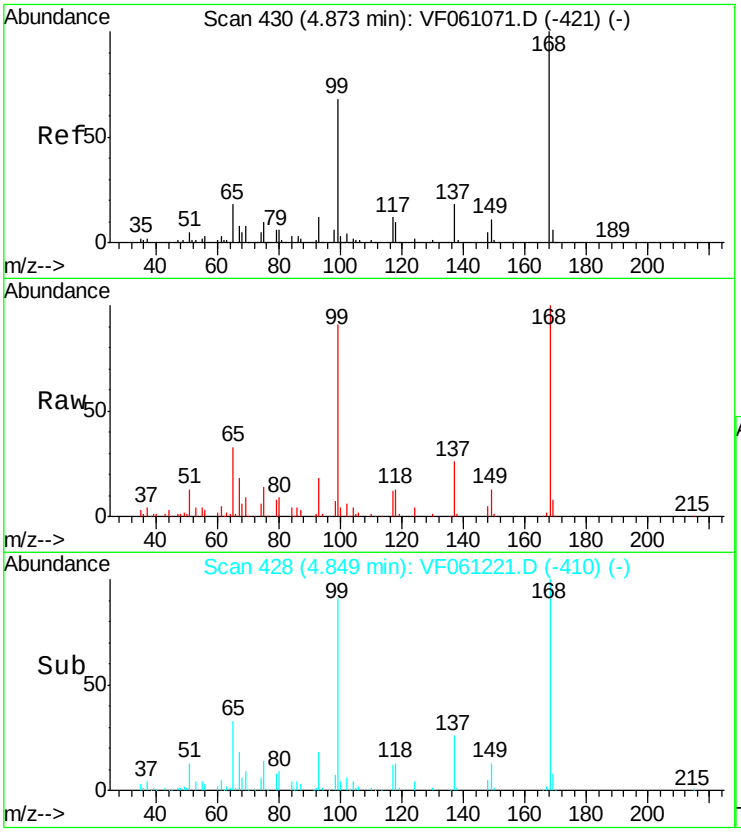
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122718\
Data File : VF061221.D
Acq On : 27 Dec 2018 21:28
Operator : VA/AP
Sample : J6195-13RE
Misc : 6.55g/5mL/MSVOA-F/SOIL
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** OR-01-122618-B

Quant Time: Dec 27 23:51:56 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration



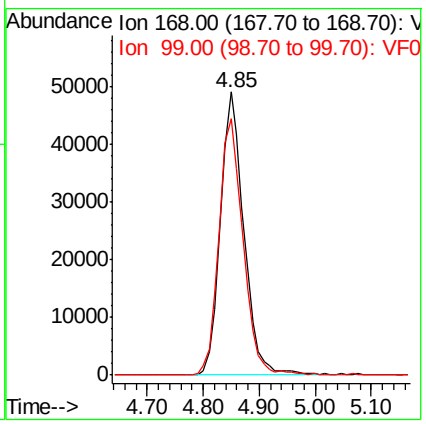


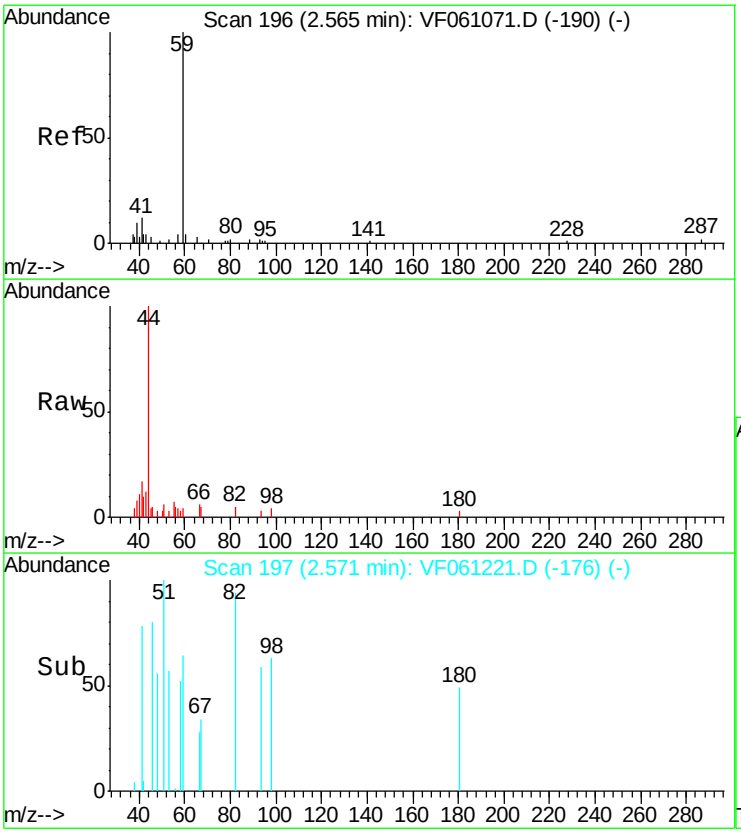

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.02 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion:168 Resp: 143037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 90.7 | 54.4 | 81.6# |

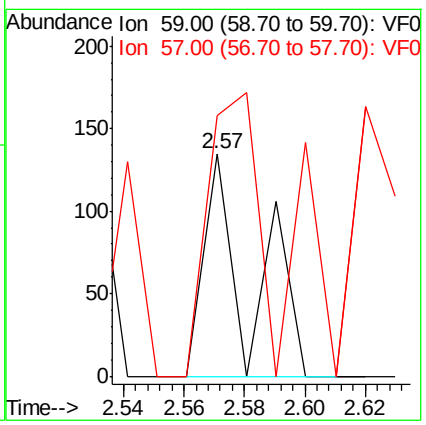


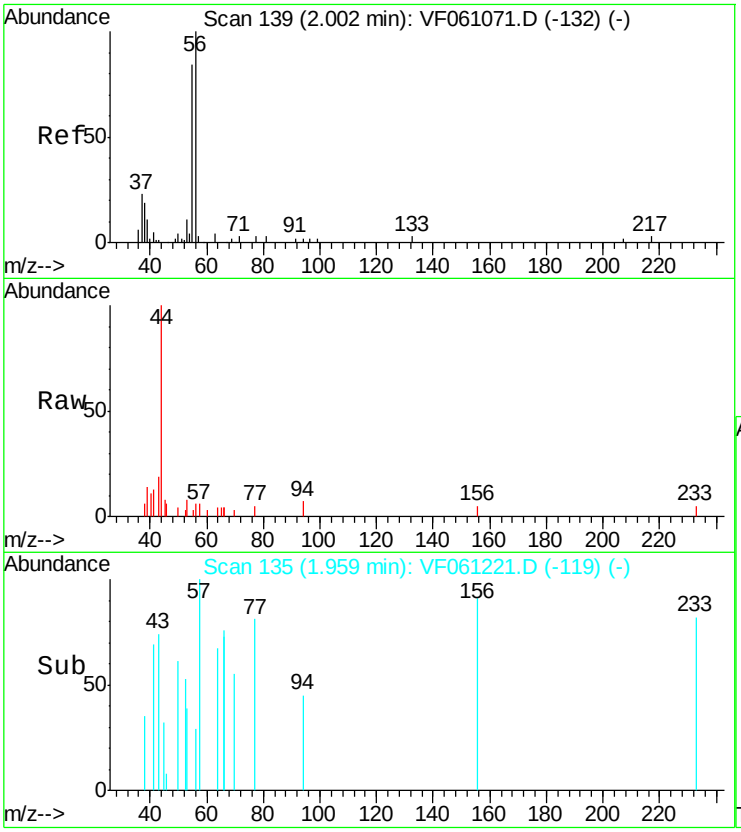




#11
Tert butyl alcohol
Concen: 1.926 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 59 Resp: 143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 117.0 | 11.5 | 17.3# |



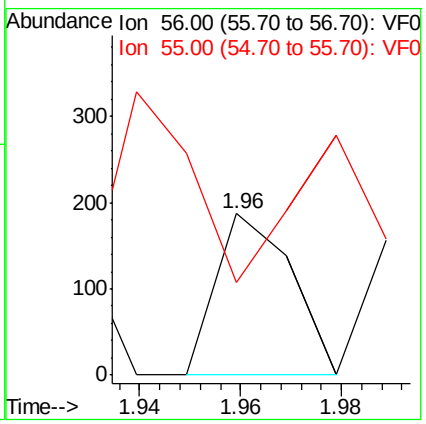


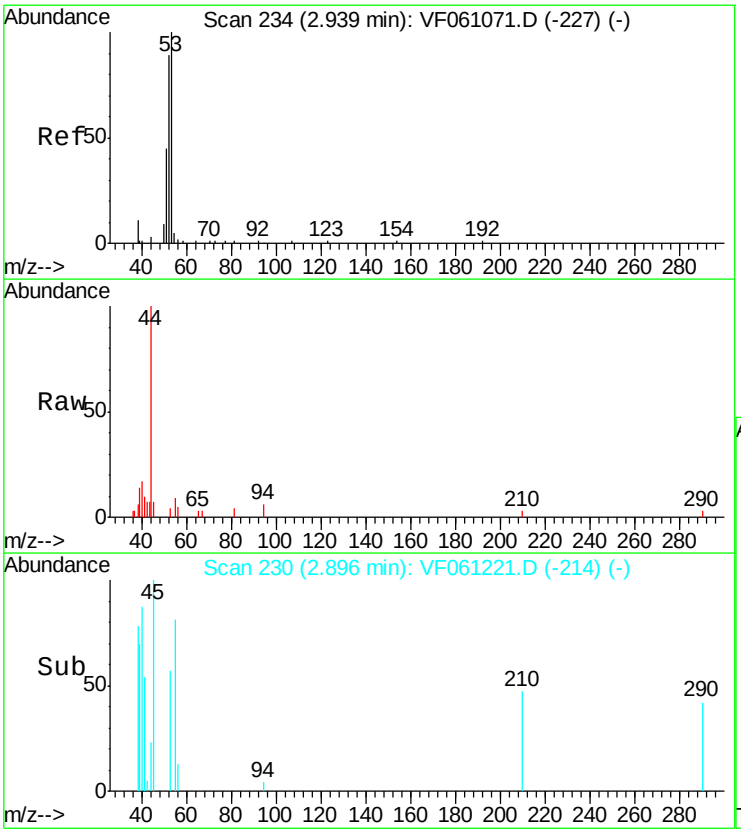

#13
Acrolein
Concen: 3.579 ug/l
RT: 1.96 min Scan# 135
Delta R.T. -0.04 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :** MSVOA_F
**ClientSampleId :** OR-01-122618-B

Tgt Ion: 56 Resp: 192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 57.8 | 70.2 | 105.2# |

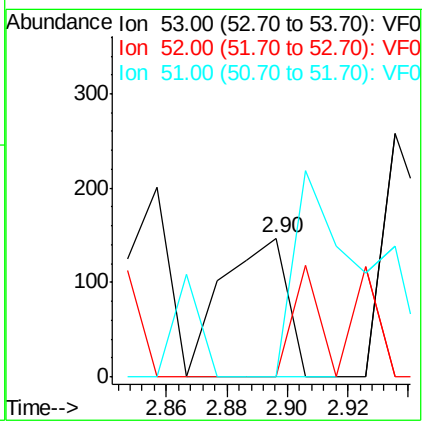


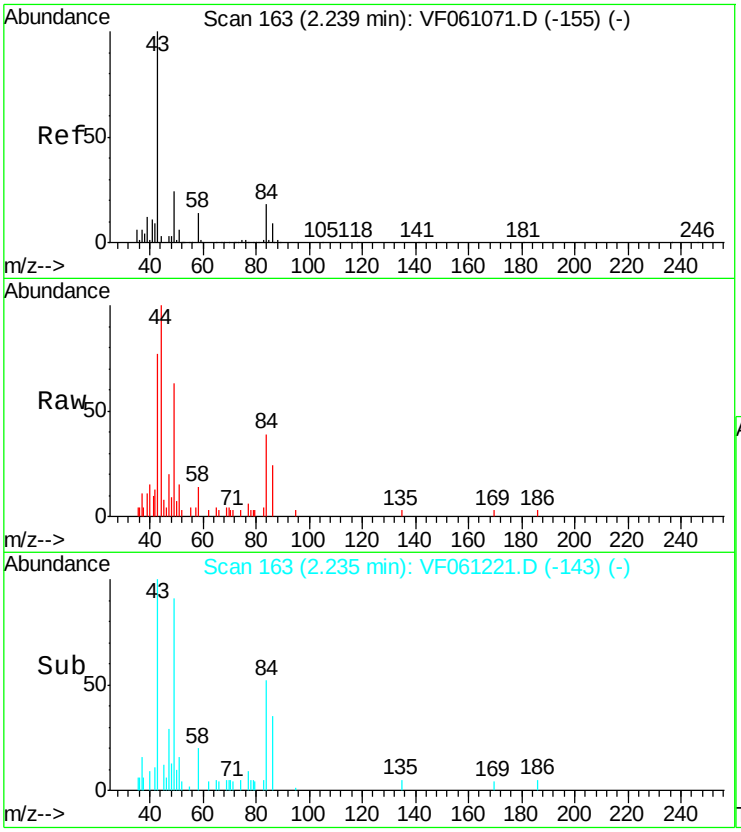




#15
Acrylonitrile
Concen: 1.282 ug/l
RT: 2.90 min Scan# 230
Delta R.T. -0.04 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 53 Resp: 220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 0.0 | 71.3 | 106.9# |
| 51 | 0.0 | 36.8 | 55.2# |



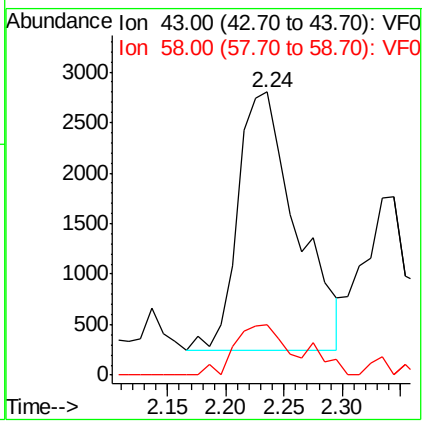


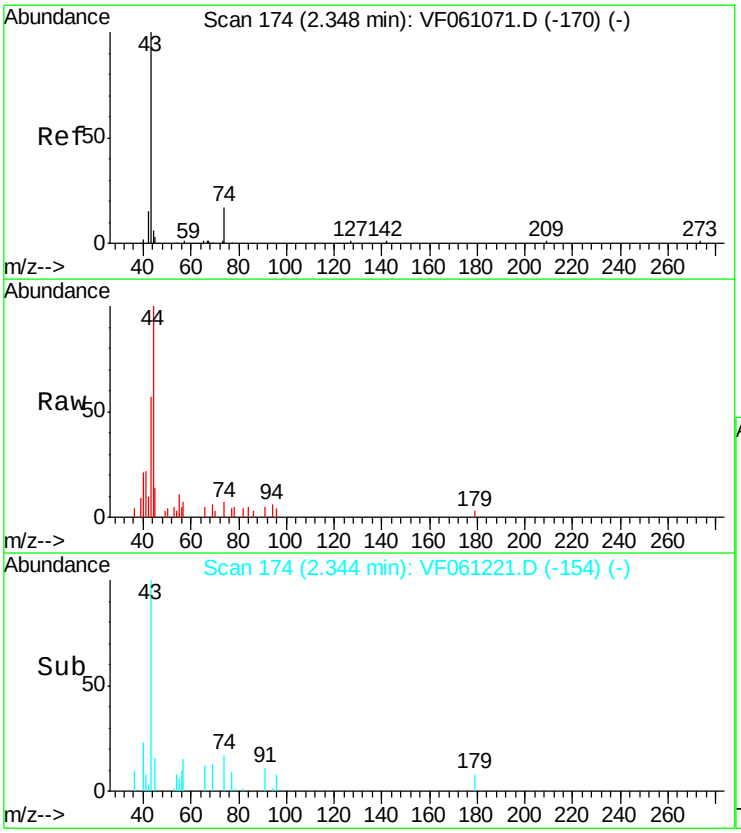

#16
Acetone
Concen: 24.210 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion: 43 Resp: 8904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.8 | 11.1 | 16.7# |

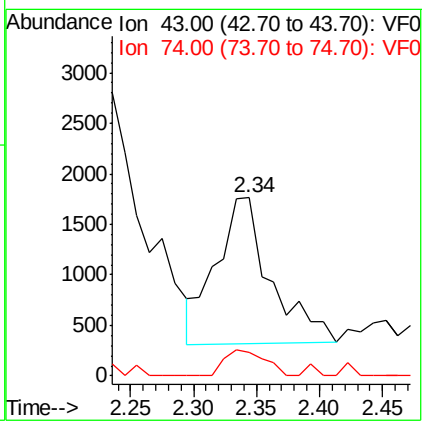


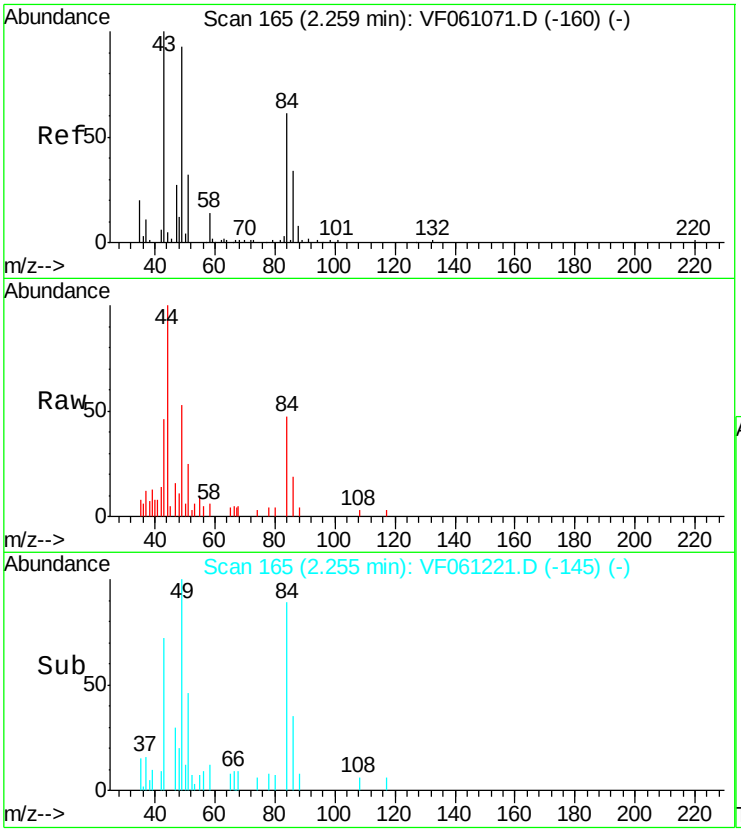




#18
Methyl Acetate
Concen: 5.655 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.00 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 43 Resp: 4303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 13.3 | 11.0 | 16.6 |



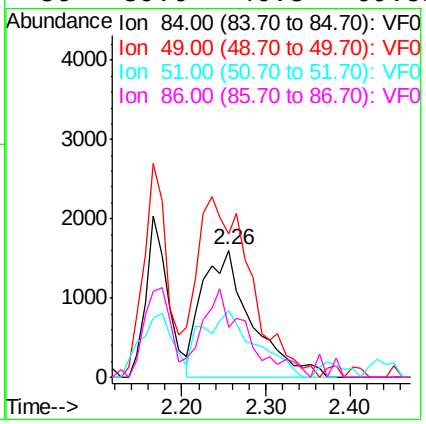


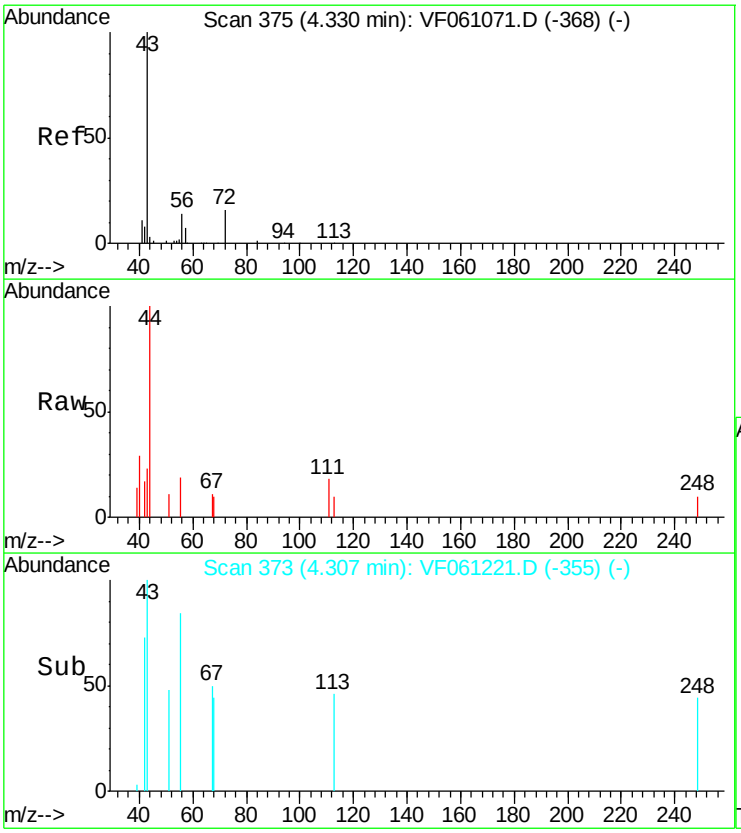

#20
Methylene Chloride
Concen: 1.185 ug/l
RT: 2.26 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :** MSVOA_F
**ClientSampleId :** OR-01-122618-B

Tgt Ion: 84 Resp: 6547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.4 | 129.4 | 194.2# |
| 51 | 52.1 | 44.0 | 66.0 |
| 86 | 39.6 | 46.3 | 69.5# |

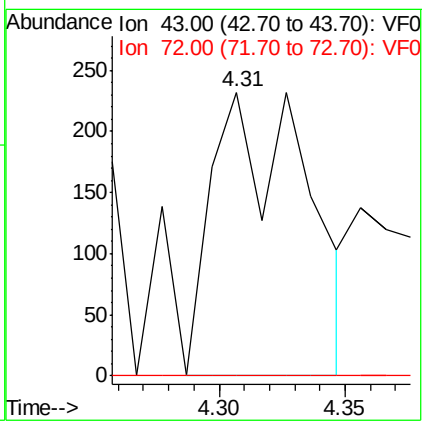


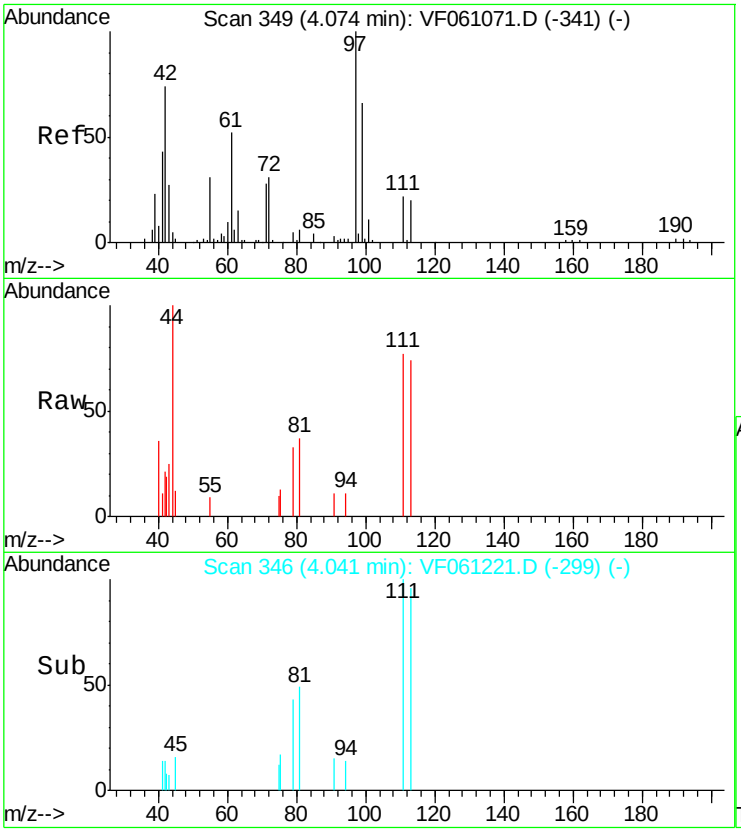




#25
2-Butanone
Concen: 1.004 ug/l
RT: 4.31 min Scan# 373
Delta R.T. -0.02 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 43 Resp: 599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 0.0 | 15.6 | 23.4# |



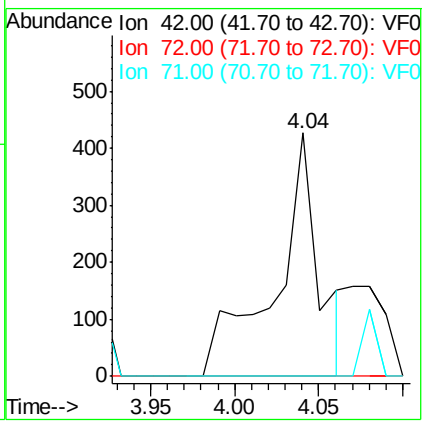


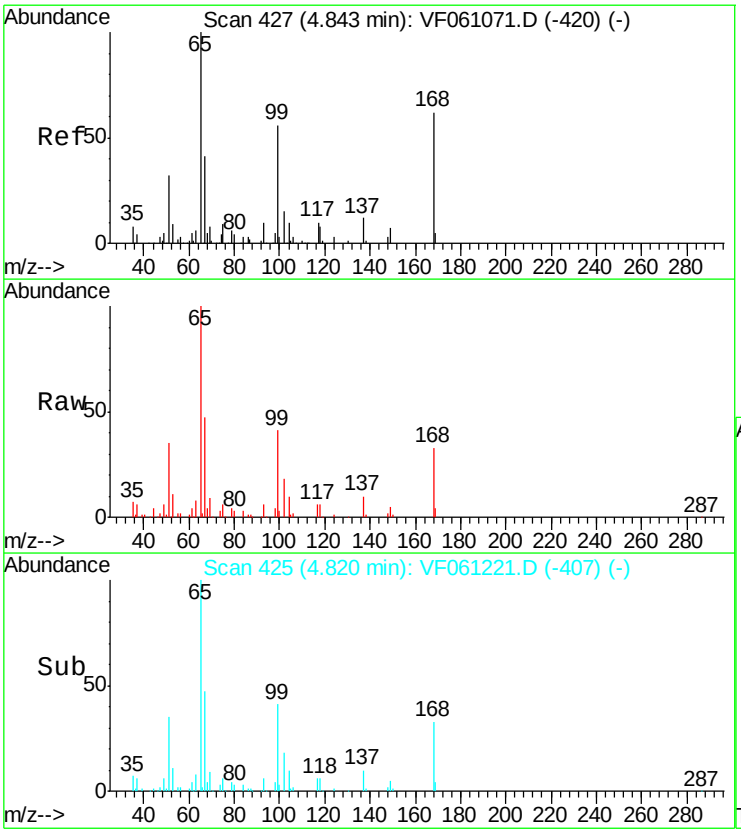

#29
Tetrahydrofuran
Concen: 3.180 ug/l
RT: 4.04 min Scan# 346
Delta R.T. -0.03 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion: 42 Resp: 772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 31.8 | 47.8# |
| 71 | 0.0 | 29.7 | 44.5# |

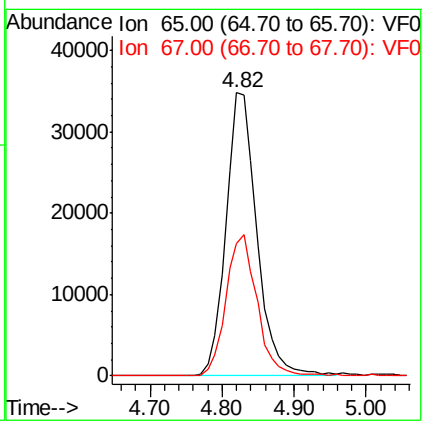


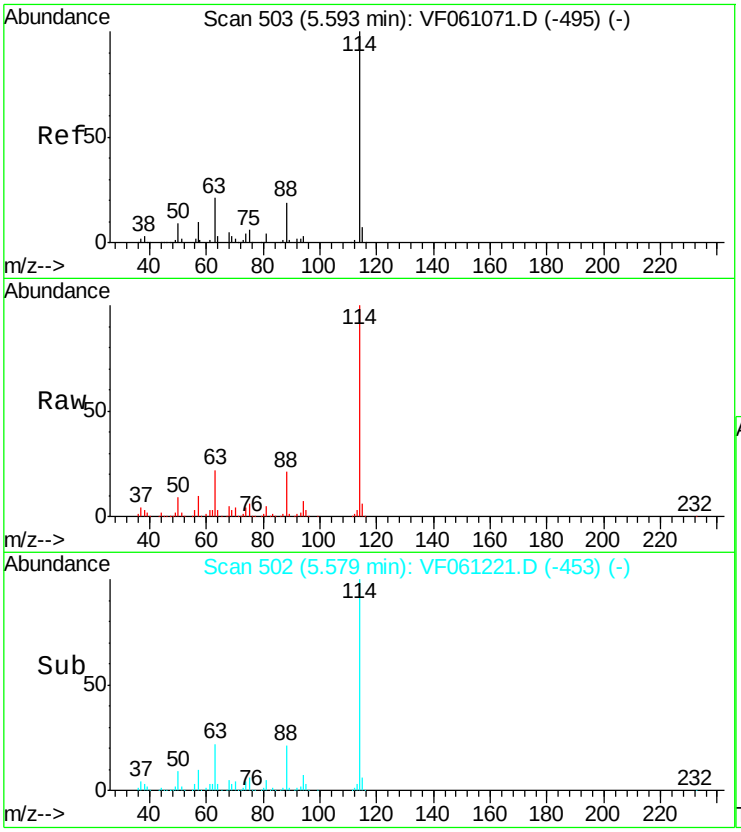




#33
1,2-Dichloroethane-d4
Concen: 56.649 ug/l
RT: 4.82 min Scan# 425
Delta R.T. -0.02 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 65 Resp: 104217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 46.8 | 0.0 | 94.6 |



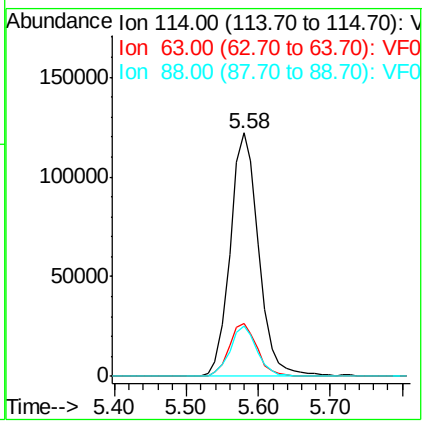


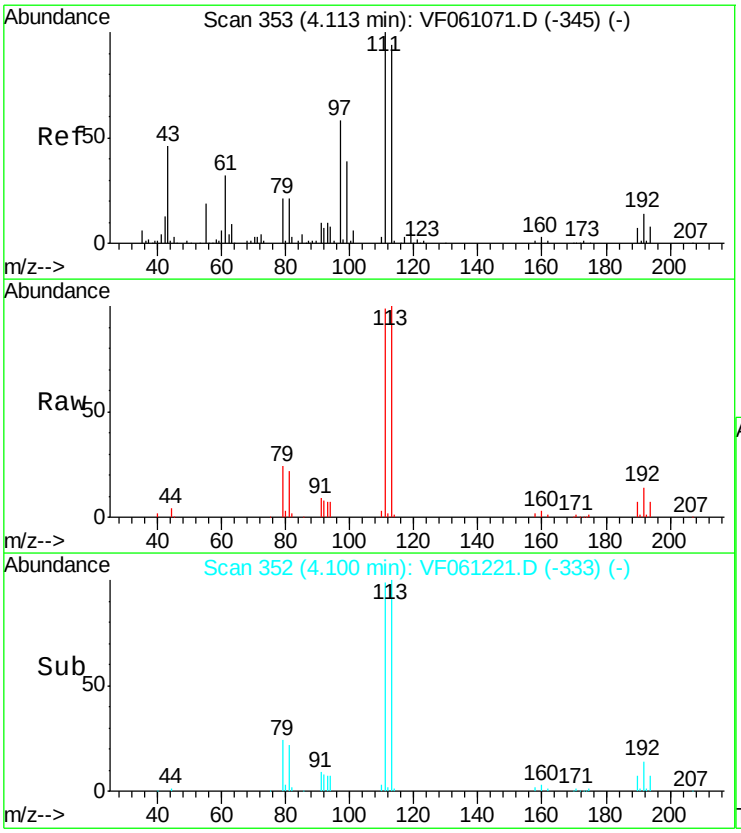

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.58 min Scan# 502
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion:114 Resp: 336953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 41.6 |
| 88 | 20.6 | 0.0 | 38.0 |

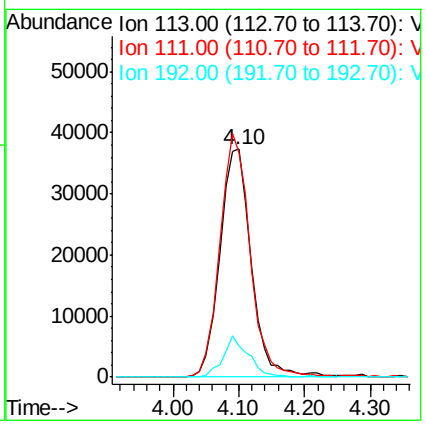


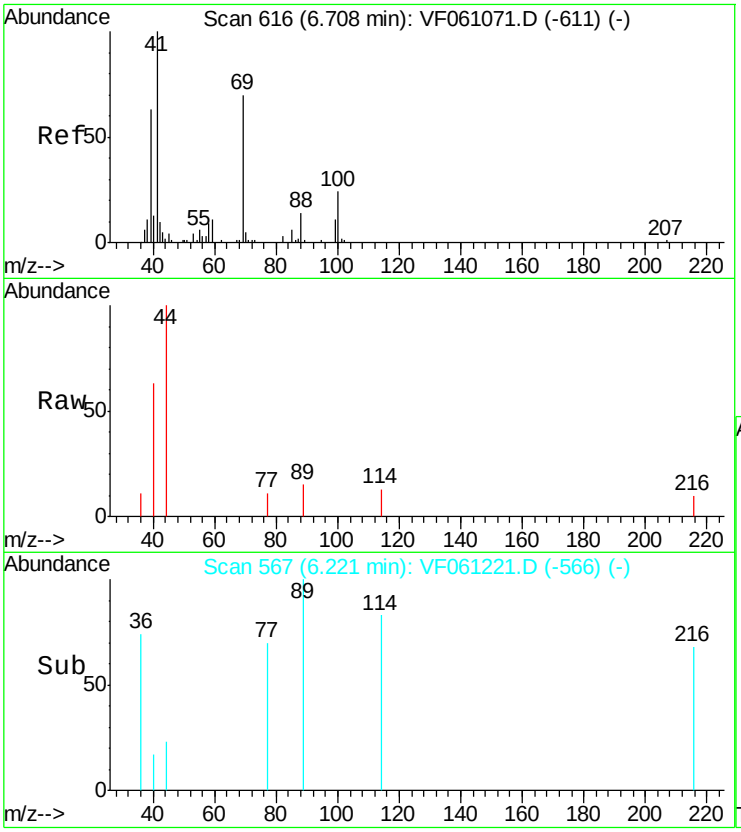




#35
Dibromofluoromethane
Concen: 46.056 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion:113 Resp: 124313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 98.6 | 85.2 | 127.8 |
| 192 | 14.6 | 12.8 | 19.2 |



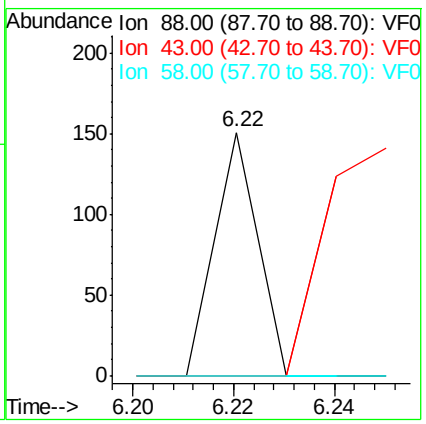


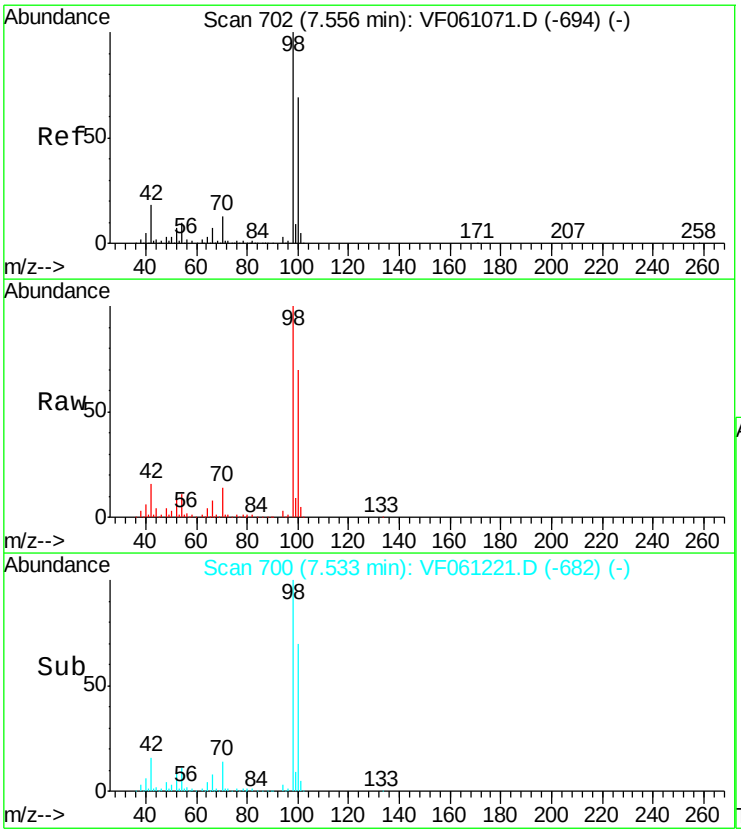

#49
1,4-Dioxane
Concen: 8.947 ug/l
RT: 6.22 min Scan# 567
Delta R.T. -0.49 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion: 88 Resp: 89

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 33.3 | 49.9# |
| 58 | 0.0 | 53.2 | 79.8# |

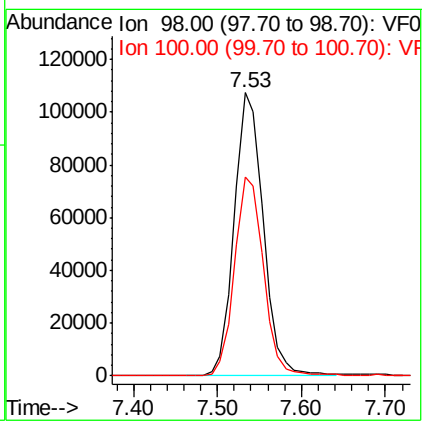


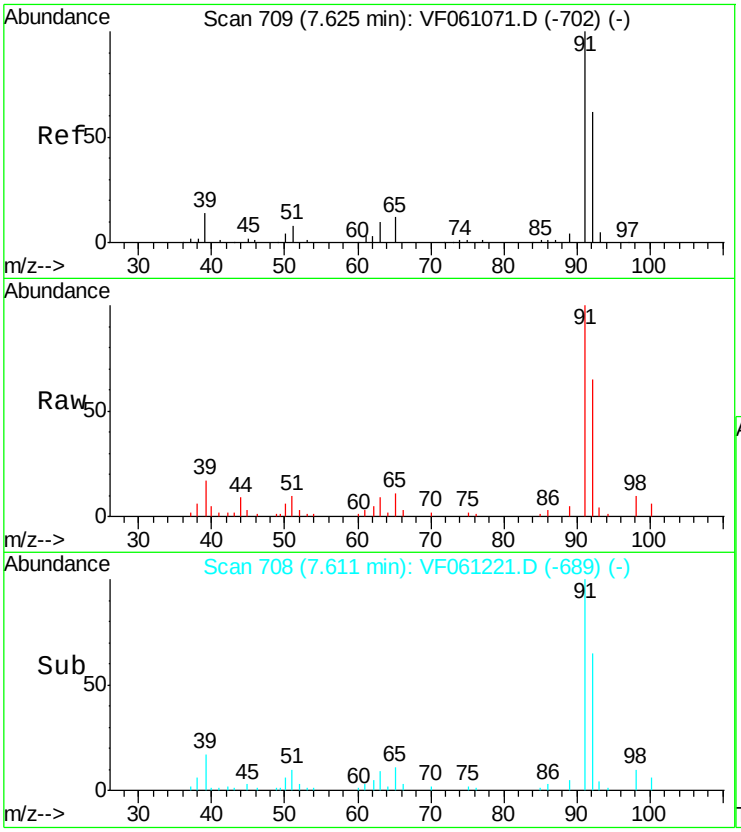




#50
Toluene-d8
Concen: 33.839 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 98 Resp: 258841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 70.2 | 55.3 | 82.9 |



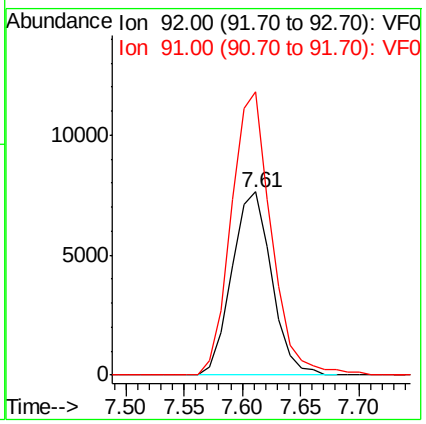


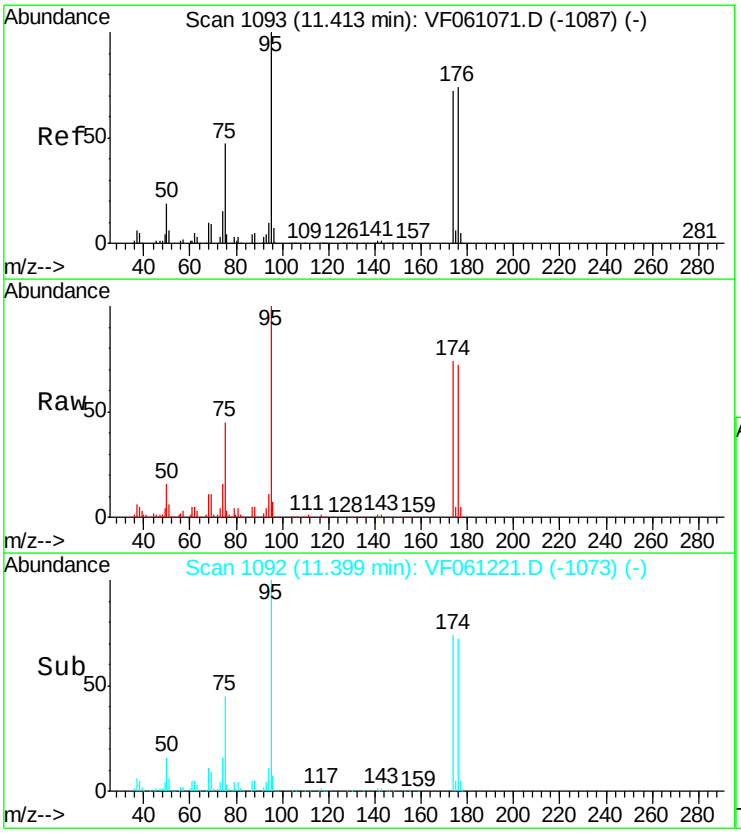

#52
Toluene
Concen: 3.108 ug/l
RT: 7.61 min Scan# 708
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion: 92 Resp: 17993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 154.4 | 128.8 | 193.2 |

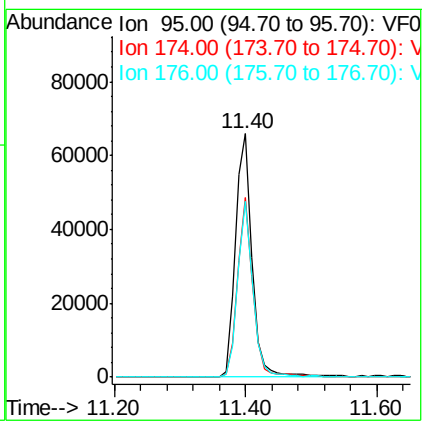


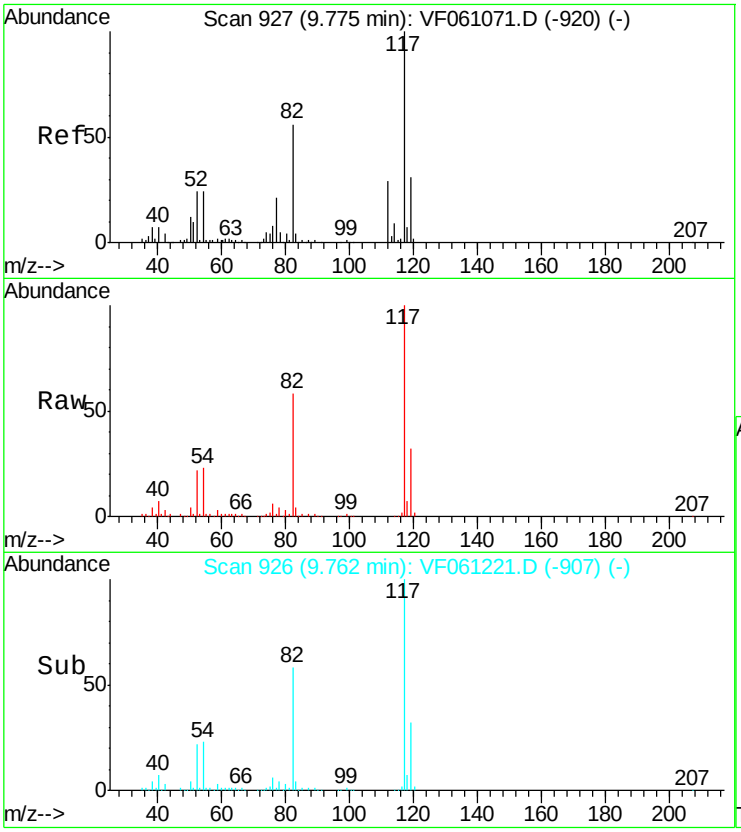




#62
4-Bromofluorobenzene
Concen: 33.324 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 95 Resp: 117512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.8 | 0.0 | 143.8 |
| 176 | 72.2 | 0.0 | 147.6 |



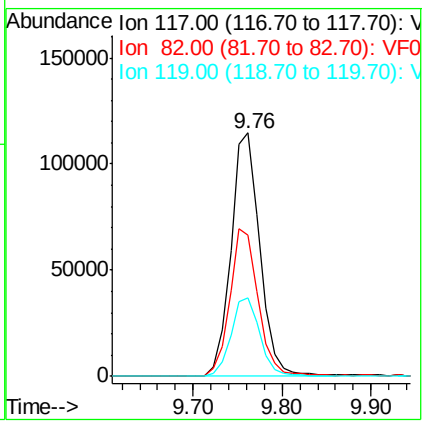


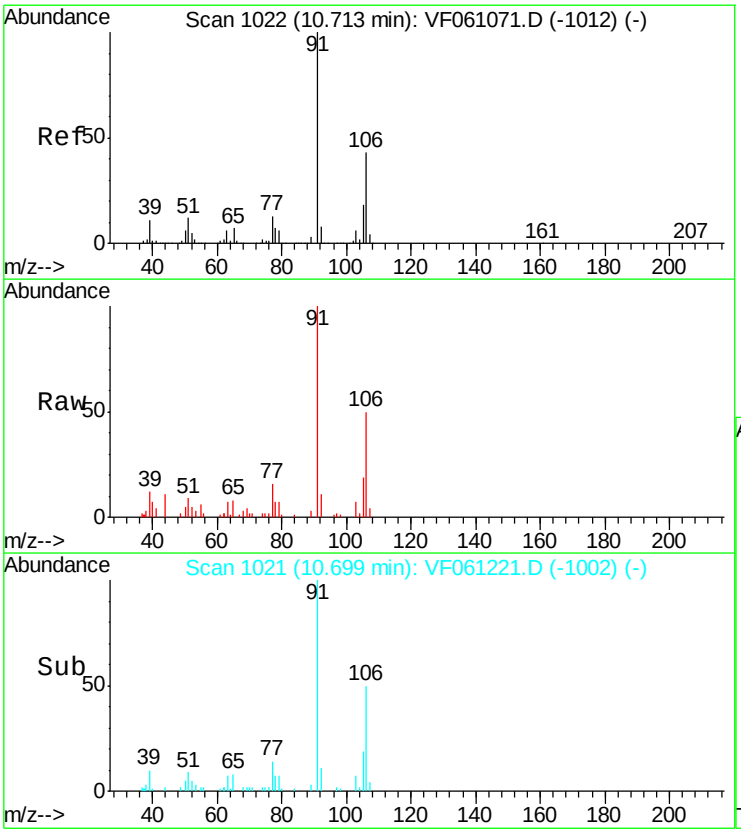

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion:117 Resp: 260677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.0 | 45.0 | 67.4 |
| 119 | 32.4 | 24.8 | 37.2 |

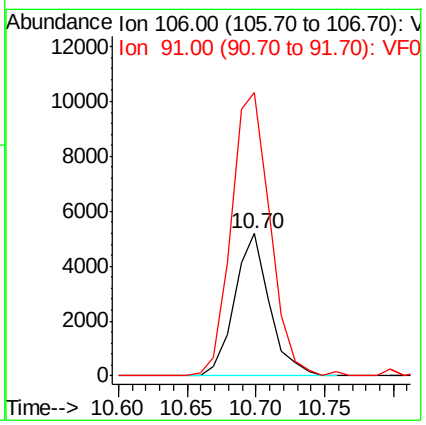


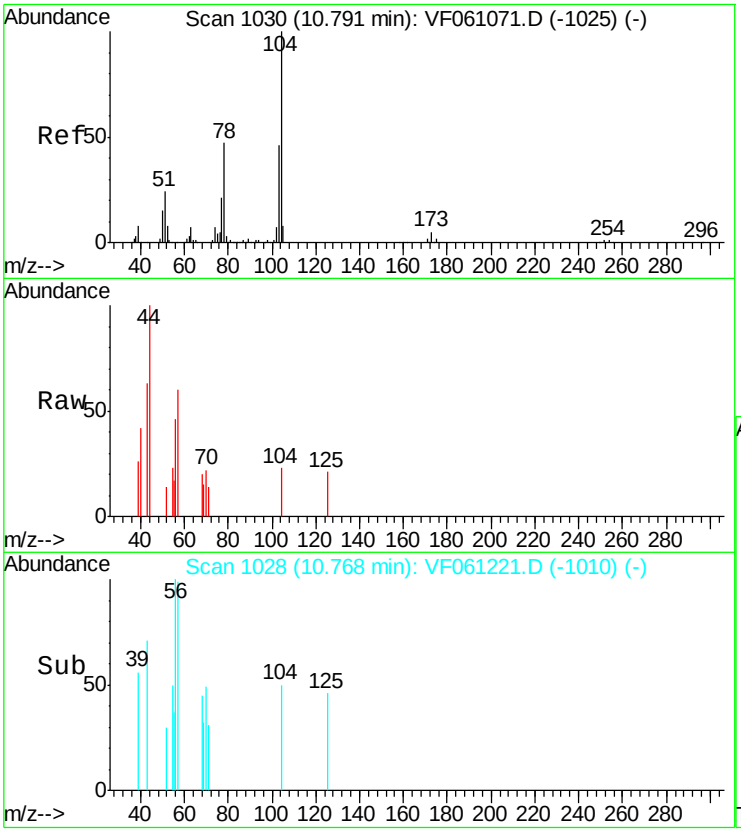




#69
o-Xylene
Concen: 2.386 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion:106 Resp: 9136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.2 | 115.9 | 347.7 |



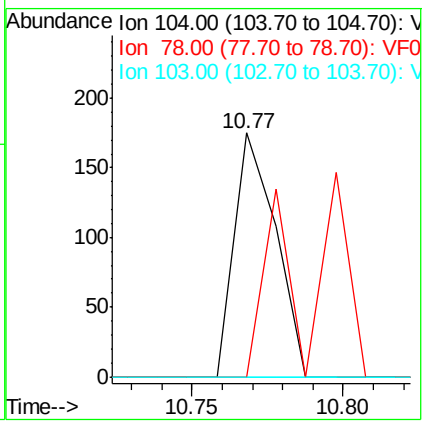


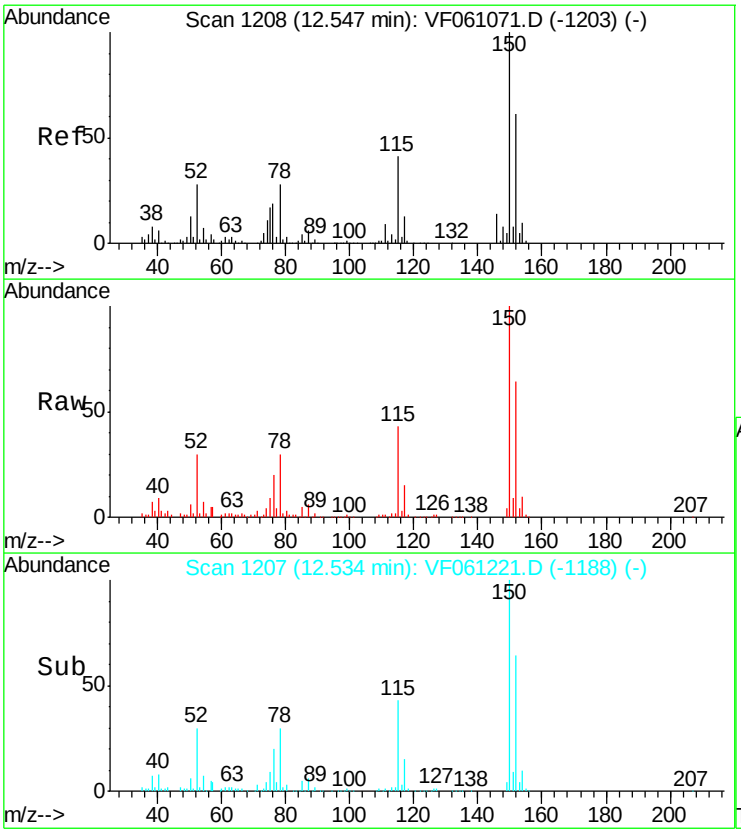

#70
Styrene
Concen: Below Cal
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :** MSVOA_F
**ClientSampleId :** OR-01-122618-B

Tgt Ion:104 Resp: 167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 0.0 | 38.4 | 57.6# |
| 103 | 0.0 | 37.0 | 55.6# |

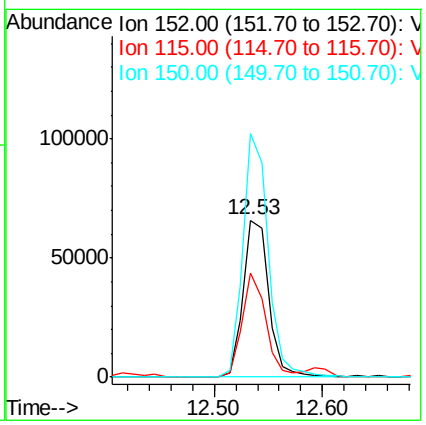


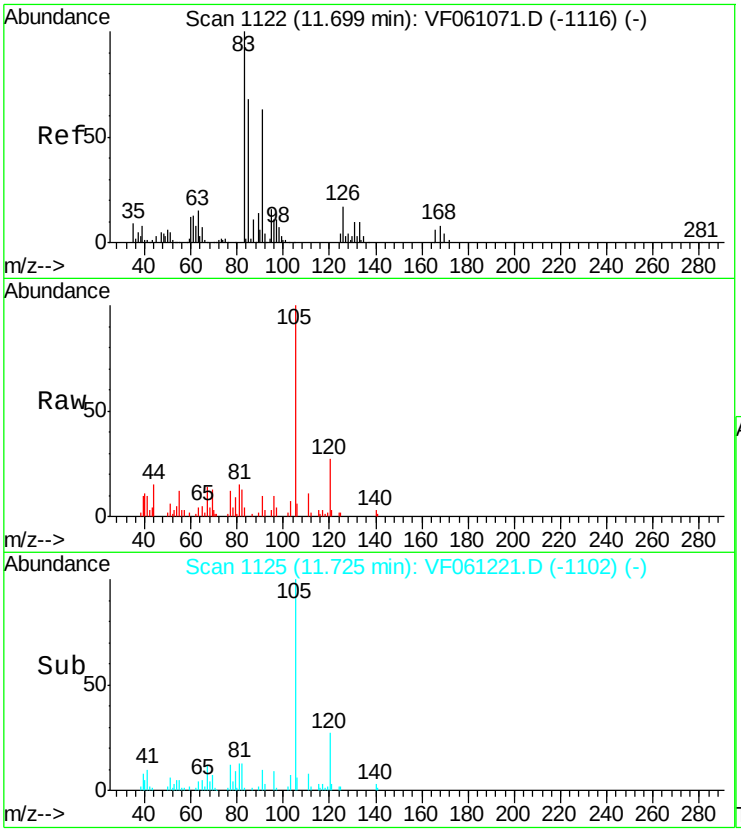




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion:152 Resp: 109170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.1 | 33.3 | 99.9 |
| 150 | 155.4 | 0.0 | 328.2 |



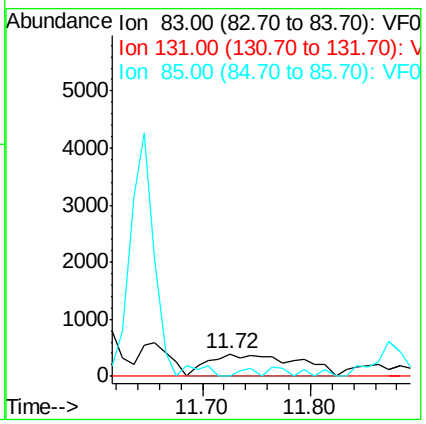


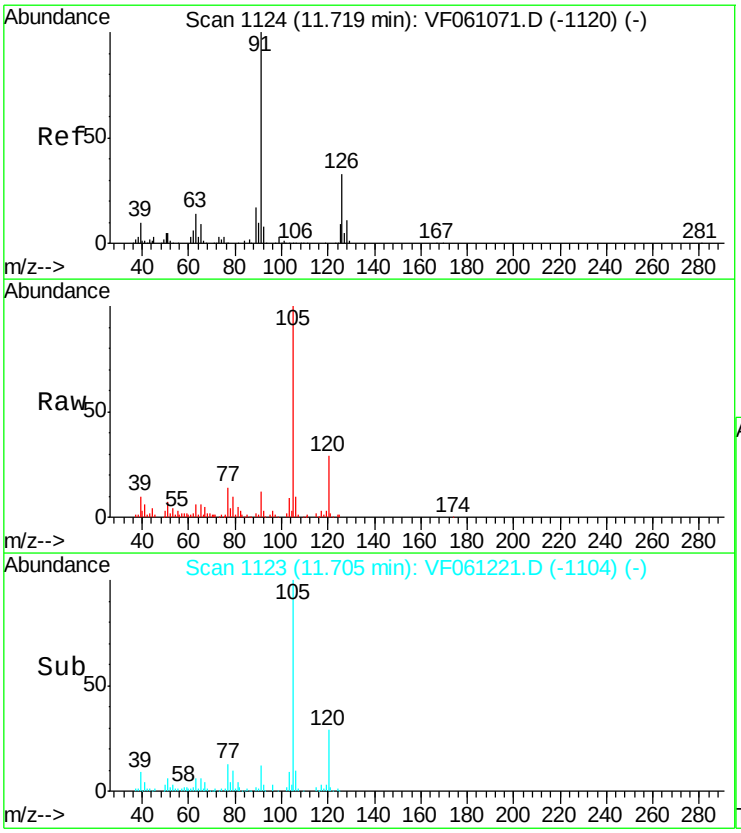

#75
1,1,2,2-Tetrachloroethane
Concen: 1.415 ug/l
RT: 11.72 min Scan# 1125
Delta R.T. 0.03 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :** MSVOA_F
**ClientSampleId :** OR-01-122618-B

Tgt Ion: 83 Resp: 2210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 0.0 | 4.8 | 14.3# |
| 85 | 0.0 | 33.9 | 101.6# |

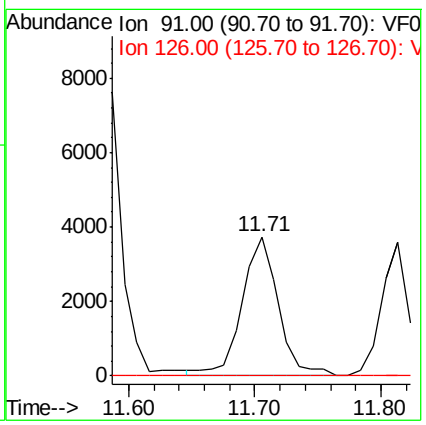


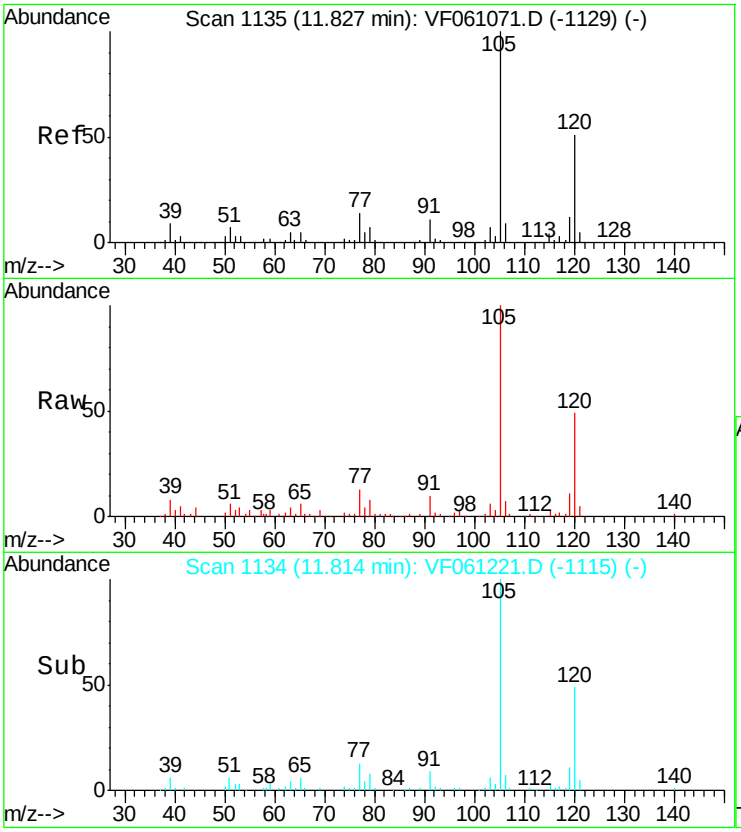




#79
2-Chlorotoluene
Concen: 1.156 ug/l
RT: 11.71 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 91 Resp: 7458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 16.4 | 49.1# |



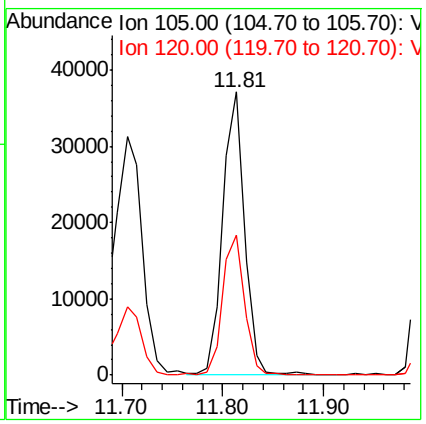


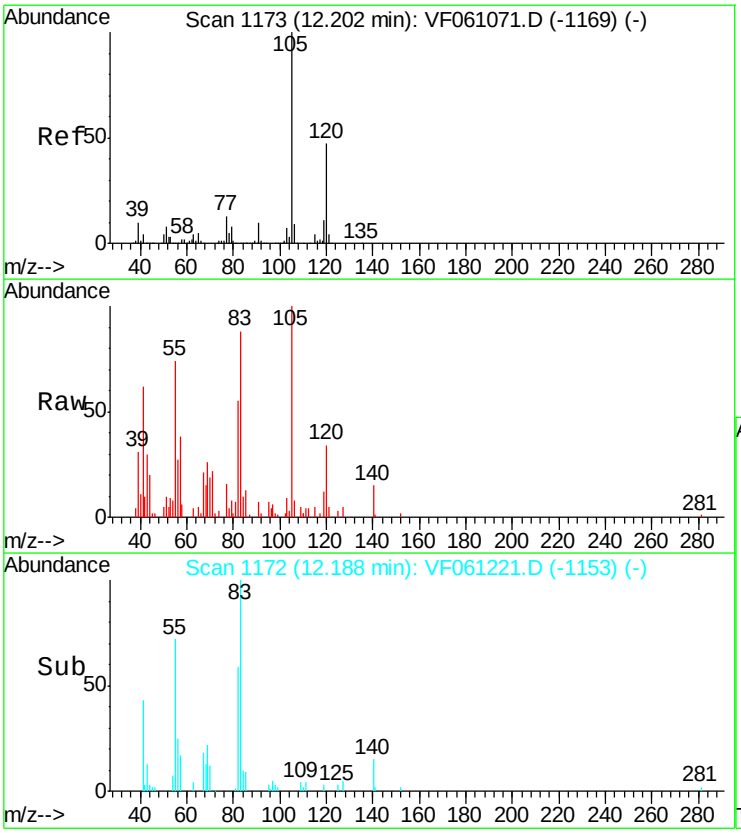

#80
1,3,5-Trimethylbenzene
Concen: 7.246 ug/l
RT: 11.81 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion:105 Resp: 56133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 25.4 | 76.4 |

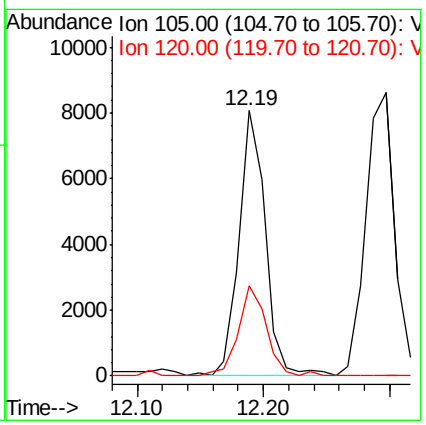


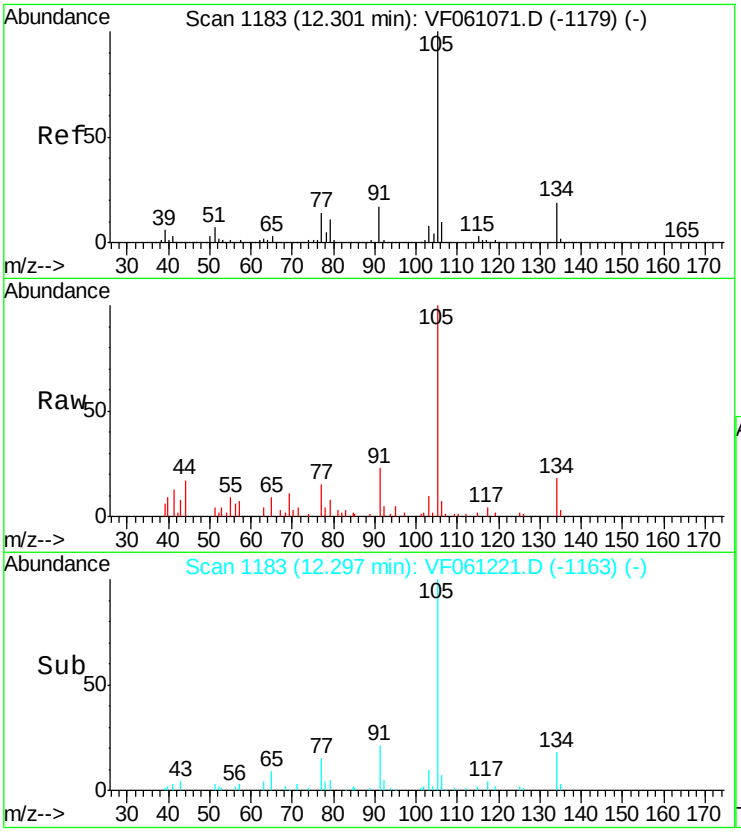




#84
1,2,4-Trimethylbenzene
Concen: 1.516 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.01 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion:105 Resp: 11708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 34.0 | 23.6 | 71.0 |



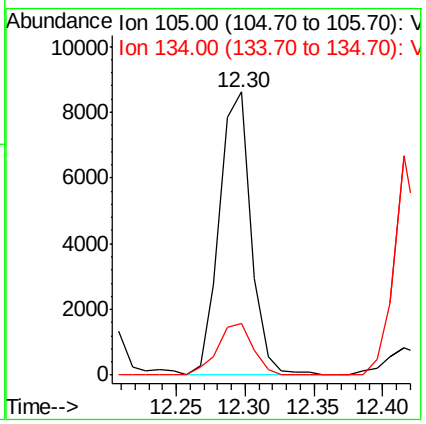


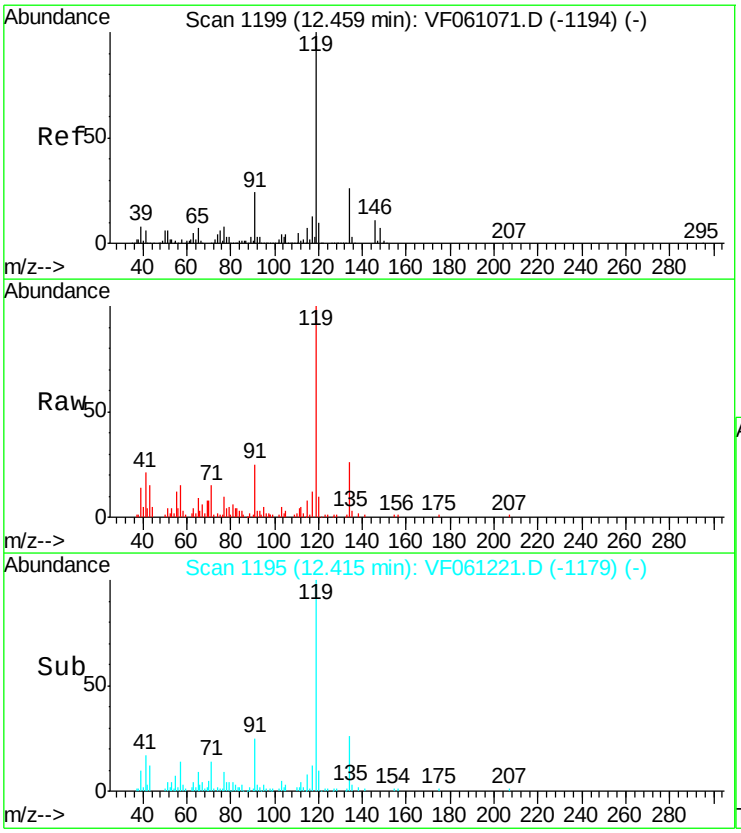

#85
sec-Butylbenzene
Concen: 1.330 ug/l
RT: 12.30 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion:105 Resp: 13839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.2 | 9.4 | 28.2 |

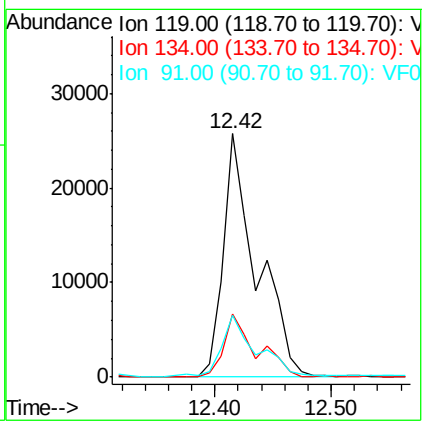


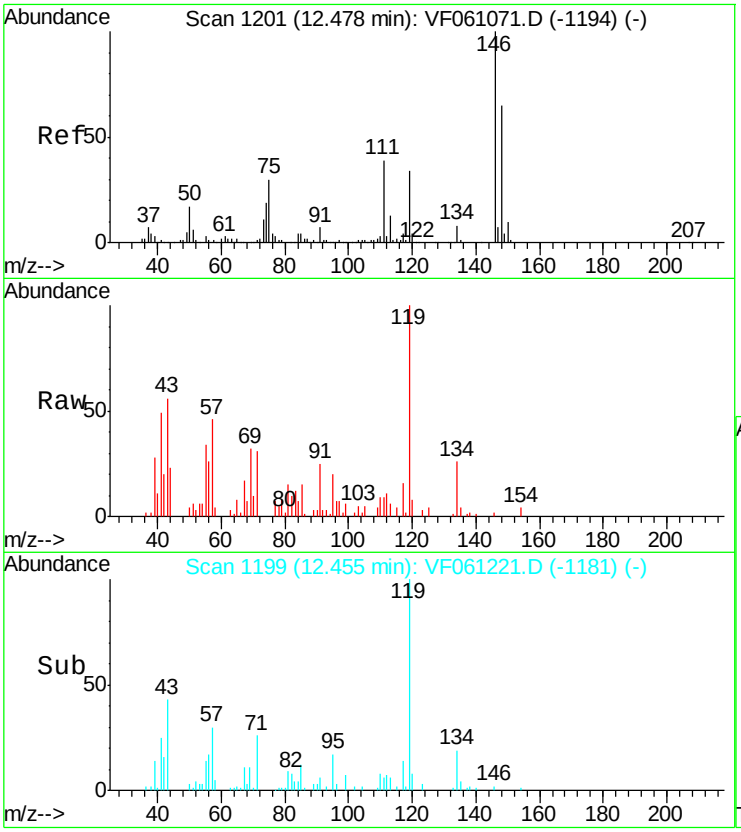




#86
p-Isopropyltoluene
Concen: 5.968 ug/l
RT: 12.42 min Scan# 1195
Delta R.T. -0.04 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion:119 Resp: 51531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 12.8 | 38.4 |
| 91 | 25.2 | 12.2 | 36.6 |



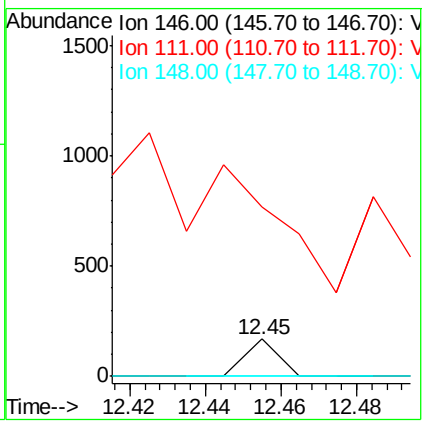


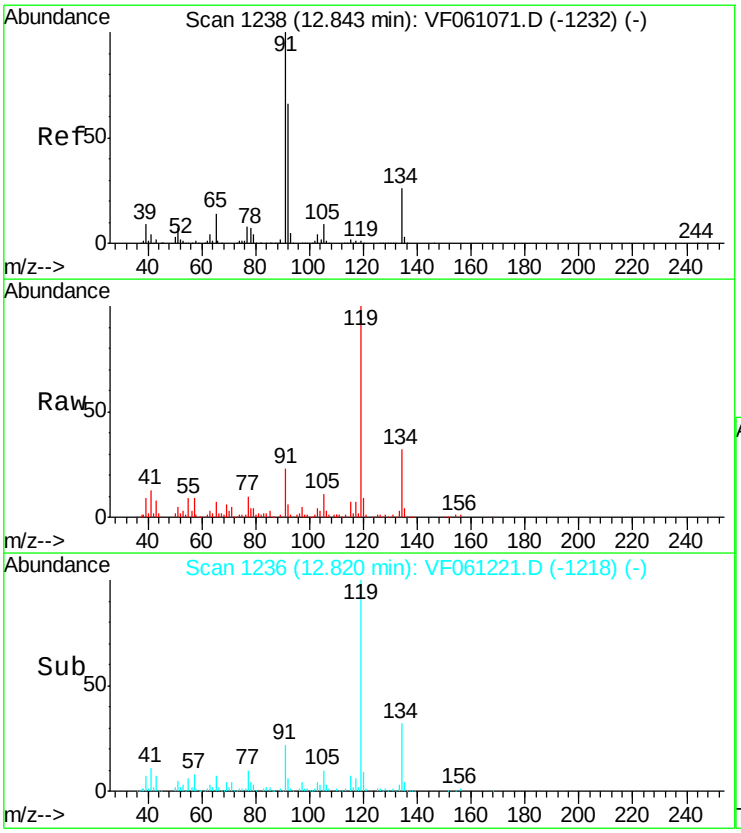

#87
1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.45 min Scan# 1199
Delta R.T. -0.02 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :** MSVOA_F
**ClientSampleId :** OR-01-122618-B

Tgt Ion:146 Resp: 101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 452.9 | 19.3 | 57.9# |
| 148 | 0.0 | 32.4 | 97.2# |

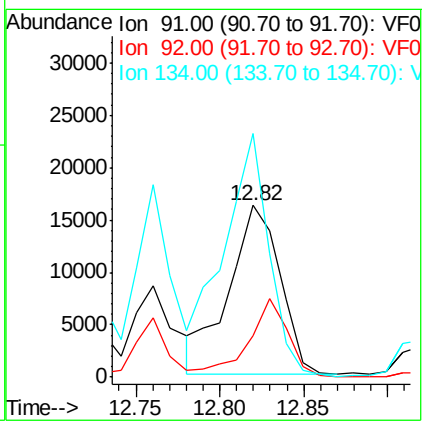


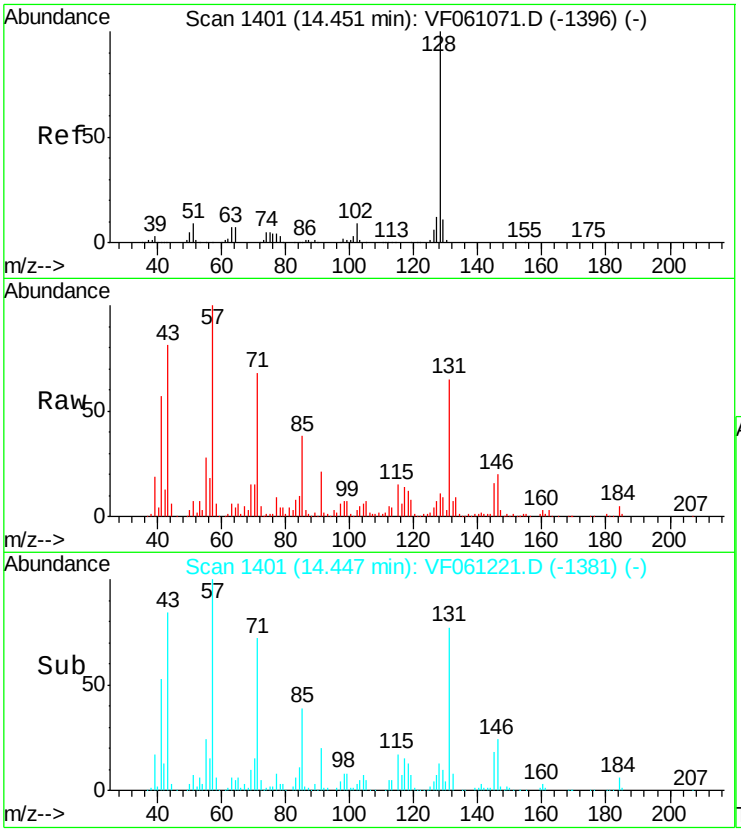




#89
n-Butylbenzene
Concen: 3.470 ug/l
RT: 12.82 min Scan# 1236
Delta R.T. -0.02 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

Tgt Ion: 91 Resp: 33973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 24.4 | 32.8 | 98.4# |
| 134 | 142.0 | 13.2 | 39.5# |






#95
Naphthalene
Concen: 2.645 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061221.D
Acq: 27 Dec 2018 21:28

**Instrument :**
MSVOA_F
**ClientSampleId :**
OR-01-122618-B

Tgt Ion:128 Resp: 12400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 60.7 | 9.4 | 14.2# |
| 129 | 78.3 | 8.8 | 13.2# |