Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
Data File : VN057585.D
Acq On : 30 Aug 2019 13:27
Operator : JC/SP
Sample : K4599-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 55-ST-20

Quant Time: Aug 31 00:06:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Aug 31 00:00:09 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 7.18 | 128 | 77562 | 30.00 | ug/l | | 0.00 |
| 28) 1,4-Difluorobenzene | 8.58 | 114 | 458645 | 30.00 | ug/l | | 0.00 |
| 57) Chlorobenzene-d5 | 11.41 | 117 | 347127 | 30.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 27) 1,2-Dichloroethane-d4 | 8.02 | 65 | 189889 | 31.77 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 50 - 169 | | Recovery = 105.90% | | | | |
| 60) 4-Bromofluorobenzene | 12.40 | 95 | 114257 | 21.65 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 56 - 143 | | Recovery = 72.17% | | | | |
| 63) Toluene-d8 | 10.09 | 98 | 528771 | 32.89 | ug/l | | 0.00 |
| Spiked Amount 30.000 | Range 66 - 137 | | Recovery = 109.63% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 3) Chloromethane | 2.06 | 50 | 1201 | 0.329 | ug/l | | 95 |
| 12) Methyl Acetate | 4.32 | 43 | 1693 | 0.456 | ug/l | # | 36 |
| 13) Acrolein | 3.60 | 56 | 387 | 0.819 | ug/l | | 86 |
| 15) Acetone | 3.81 | 58 | 3063 | 3.894 | ug/l | | 96 |
| 16) Carbon Disulfide | 4.03 | 76 | 2228 | 0.310 | ug/l | # | 76 |
| 22) cis-1,2-Dichloroethene | 6.81 | 96 | 7888 | 1.507 | ug/l | # | 1 |
| 23) tert-Butyl Alcohol | 4.78 | 59 | 444 | 0.821 | ug/l | # | 100 |
| 30) 2-Butanone | 6.81 | 43 | 512 | 0.254 | ug/l | # | 66 |
| 45) 1,4-Dioxane | 8.82 | 88 | 64 | 0.957 | ug/l | # | 1 |
| 51) Ethyl methacrylate | 10.09 | 69 | 1766 | 0.271 | ug/l | | 85 |
| 55) 2-Chloroethyl vinyl ether | 10.09 | 63 | 566 | 0.354 | ug/l | # | 1 |
| 59) 2-Hexanone | 10.75 | 43 | 597 | 0.241 | ug/l | # | 70 |
| 77) t-1,4-Dichloro-2-butene | 12.40 | 75 | 62609 | 45.880 | ug/l | # | 8 |
| 83) 1,3-Dichlorobenzene | 13.29 | 146 | 2225 | 0.282 | ug/l | # | 30 |
| 85) n-Butylbenzene | 13.63 | 91 | 2714 | 0.219 | ug/l | | 85 |
| 87) 1,2-Dichlorobenzene | 13.65 | 146 | 1579 | 0.208 | ug/l | # | 57 |
| 89) 1,2,4-Trichlorobenzene | 14.92 | 180 | 2673 | 0.957 | ug/l | | 92 |
| 90) Hexachlorobutadiene | 15.01 | 225 | 625 | 0.260 | ug/l | | 81 |
| 91) Naphthalene | 15.13 | 128 | 7393 | 0.951 | ug/l | # | 93 |
| 92) 1,2,3-Trichlorobenzene | 15.30 | 180 | 3224 | 1.165 | ug/l | | 98 |

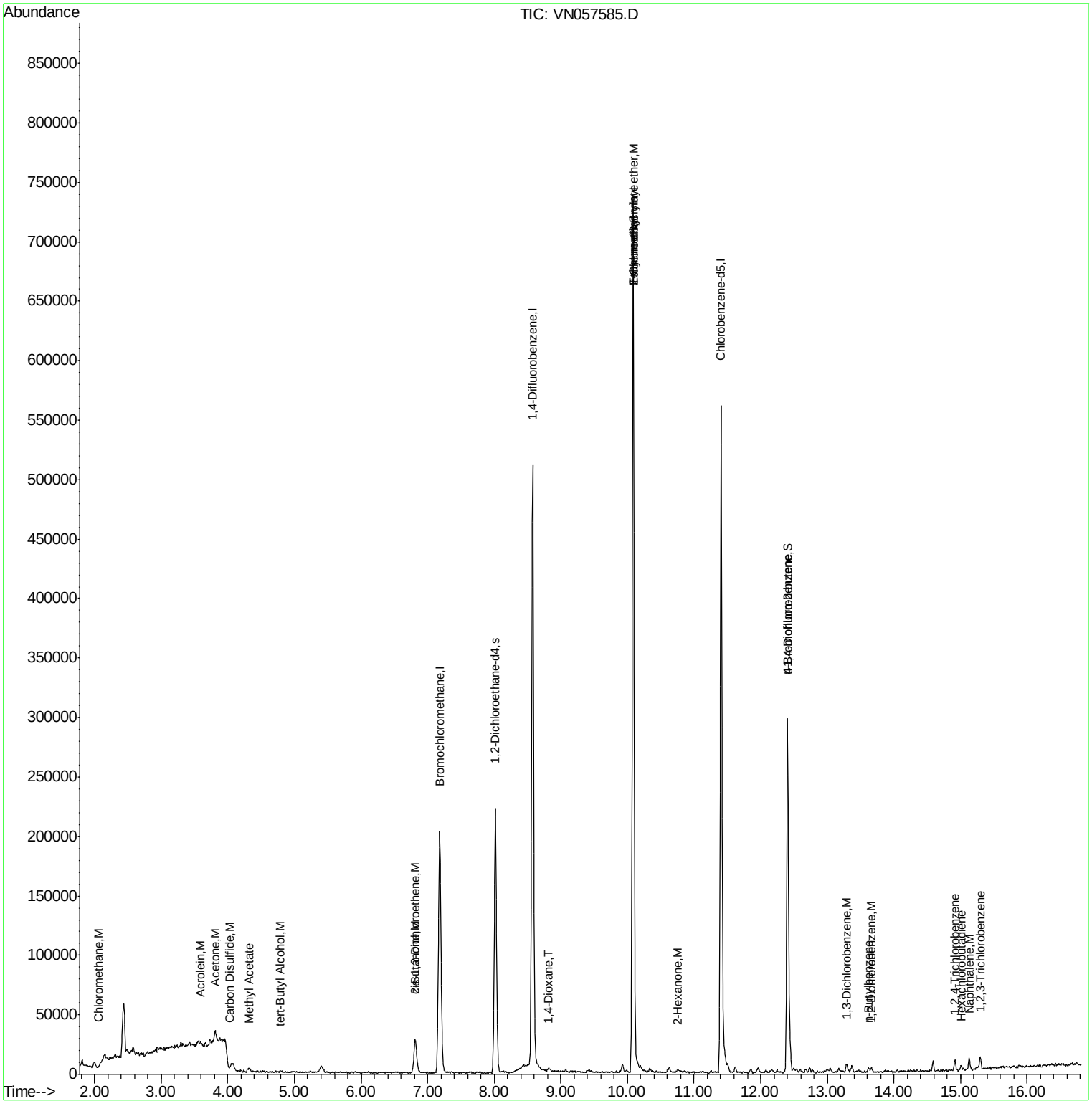
(#) = qualifier out of range (m) = manual integration (+) = signals summed

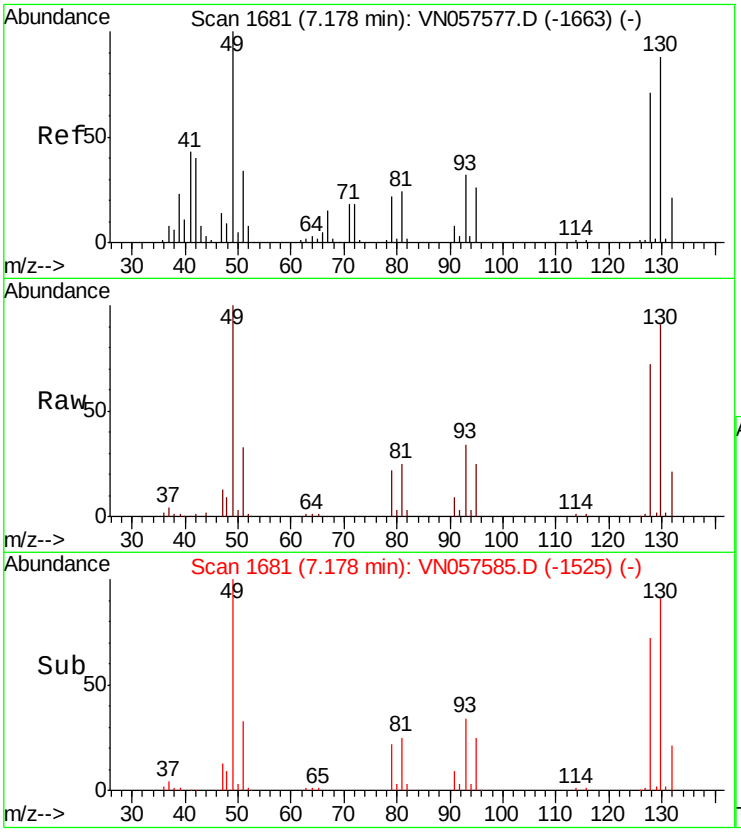
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
Data File : VN057585.D
Acq On : 30 Aug 2019 13:27
Operator : JC/SP
Sample : K4599-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Quant Time: Aug 31 00:06:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Aug 31 00:00:09 2019
Response via : Initial Calibration



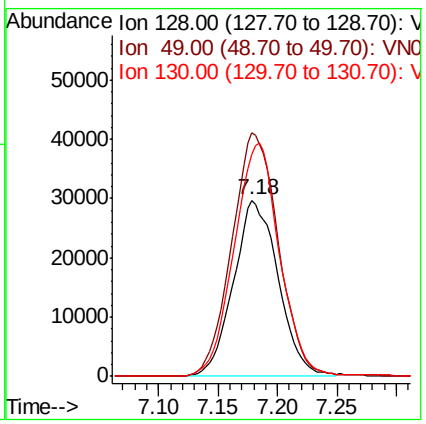


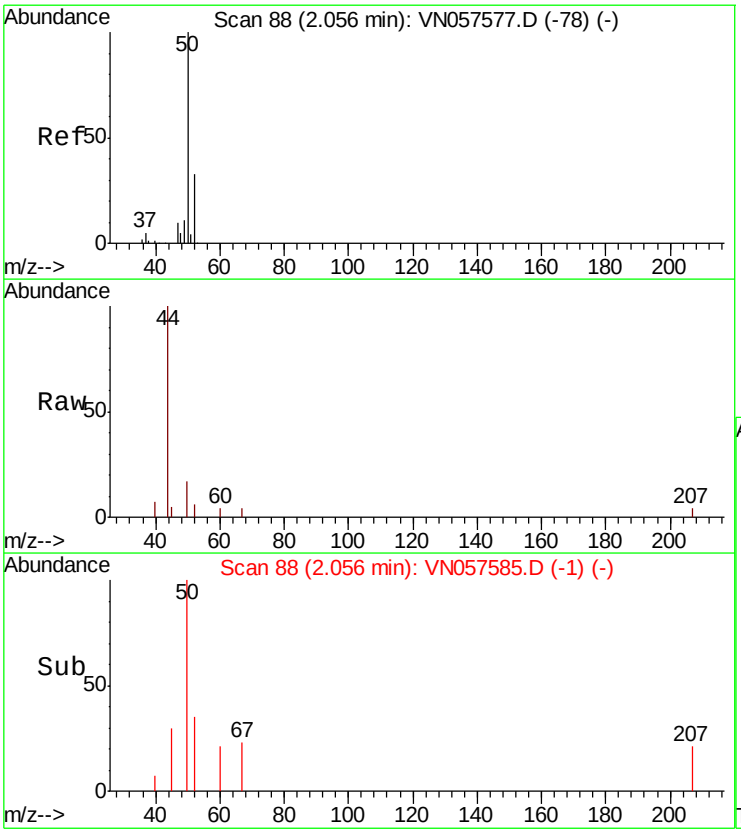

#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion:128 Resp: 77562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 143.6 | 0.0 | 352.3 |
| 130 | 133.9 | 0.0 | 324.7 |

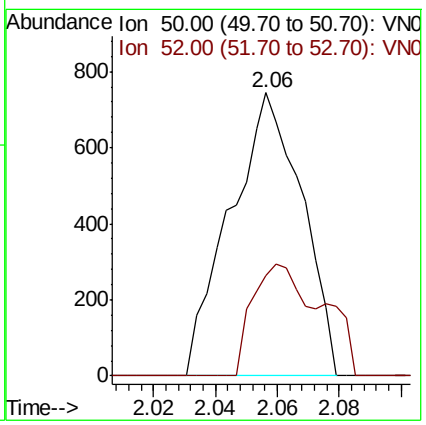


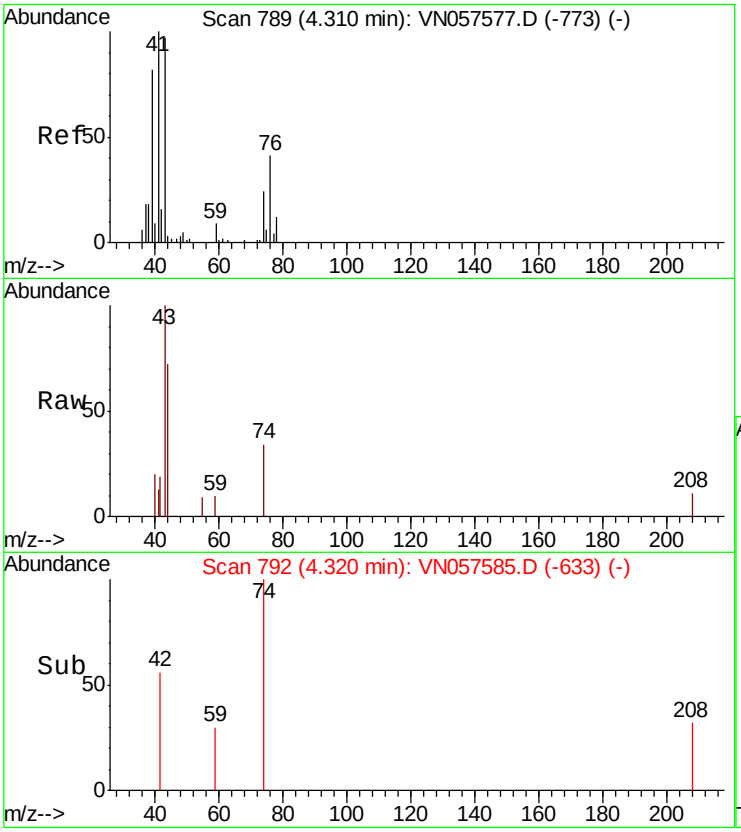




#3
Chloromethane
Concen: 0.329 ug/l
RT: 2.06 min Scan# 88
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 50 Resp: 1201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 35.5 | 26.2 | 39.2 |



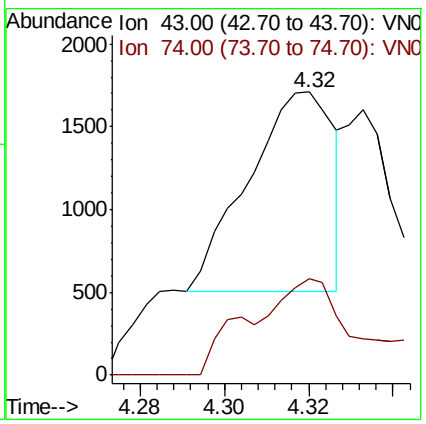


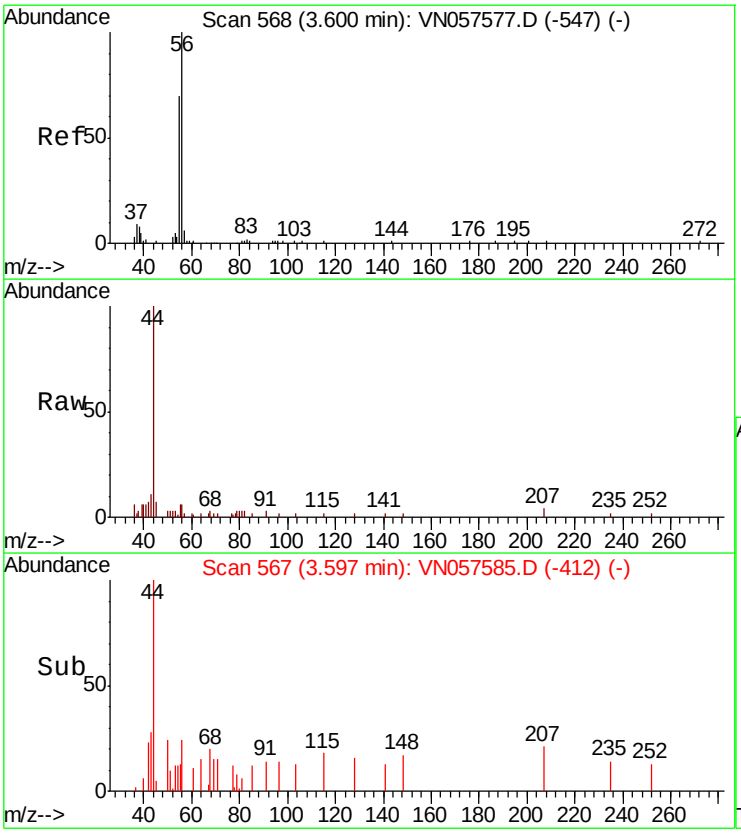

#12
Methyl Acetate
Concen: 0.456 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion: 43 Resp: 1693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 56.1 | 19.6 | 29.4# |

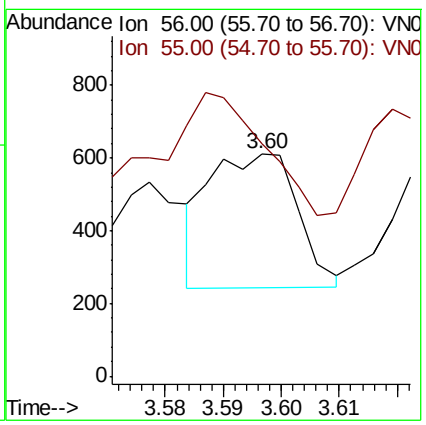


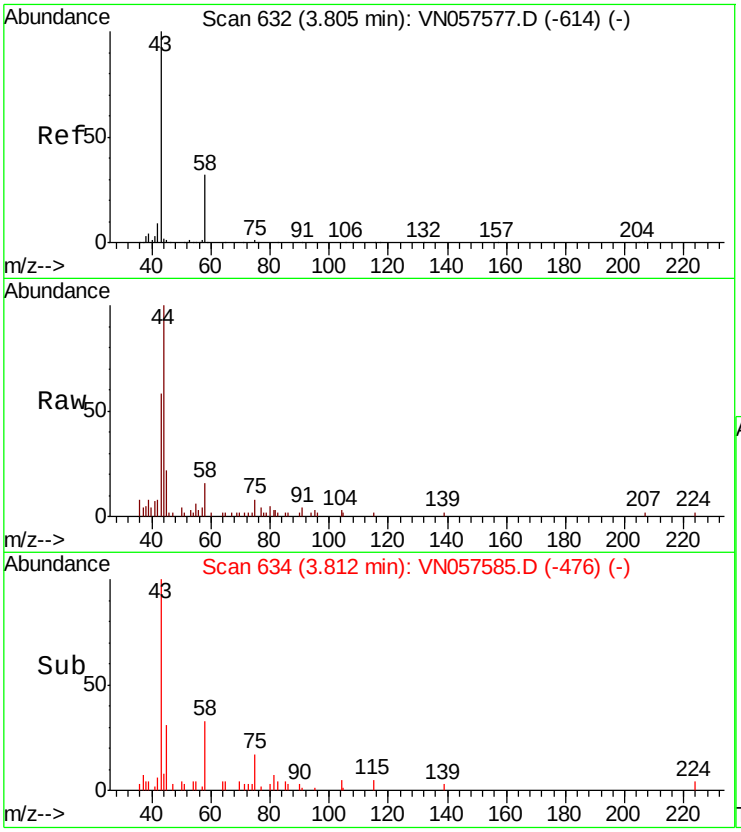




#13
Acrolein
Concen: 0.819 ug/l
RT: 3.60 min Scan# 567
Delta R.T. -0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 56 Resp: 387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 79.1 | 54.5 | 81.7 |



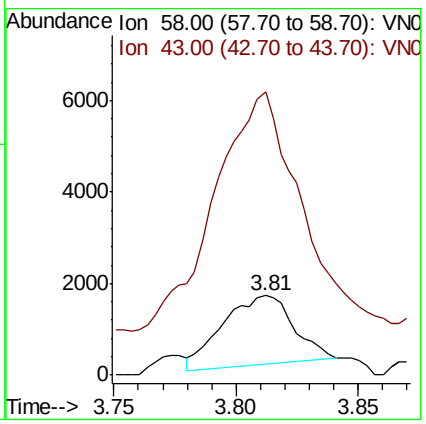


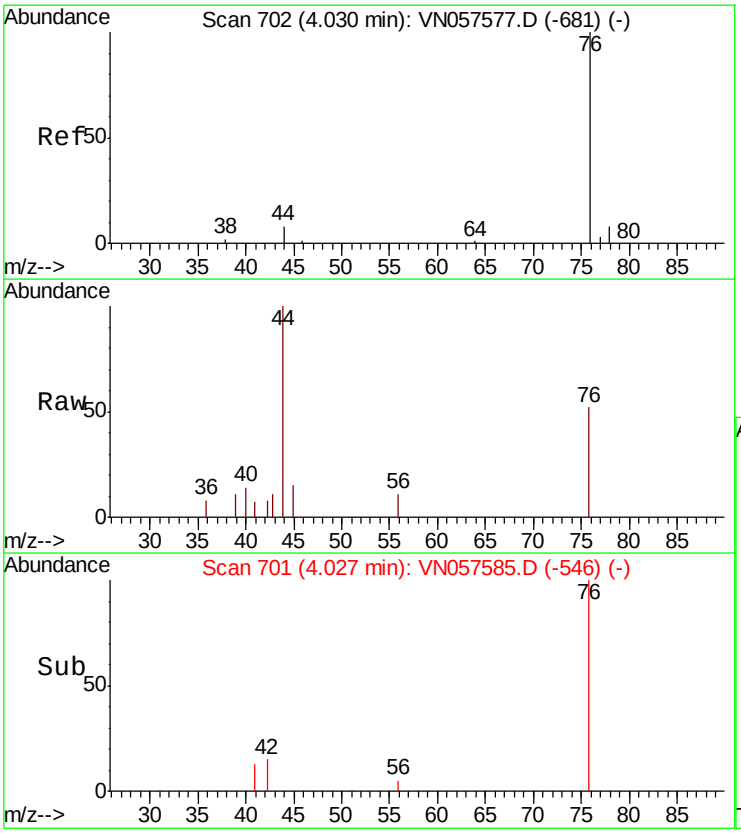

#15
Acetone
Concen: 3.894 ug/l
RT: 3.81 min Scan# 634
Delta R.T. 0.01 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :** MSVOA_N
**ClientSampleId :** 55-ST-20

Tgt Ion: 58 Resp: 3063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 307.0 | 252.8 | 379.2 |

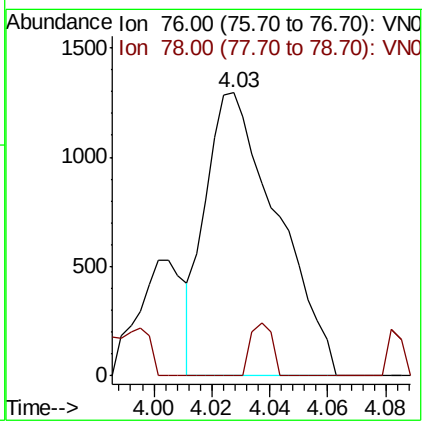


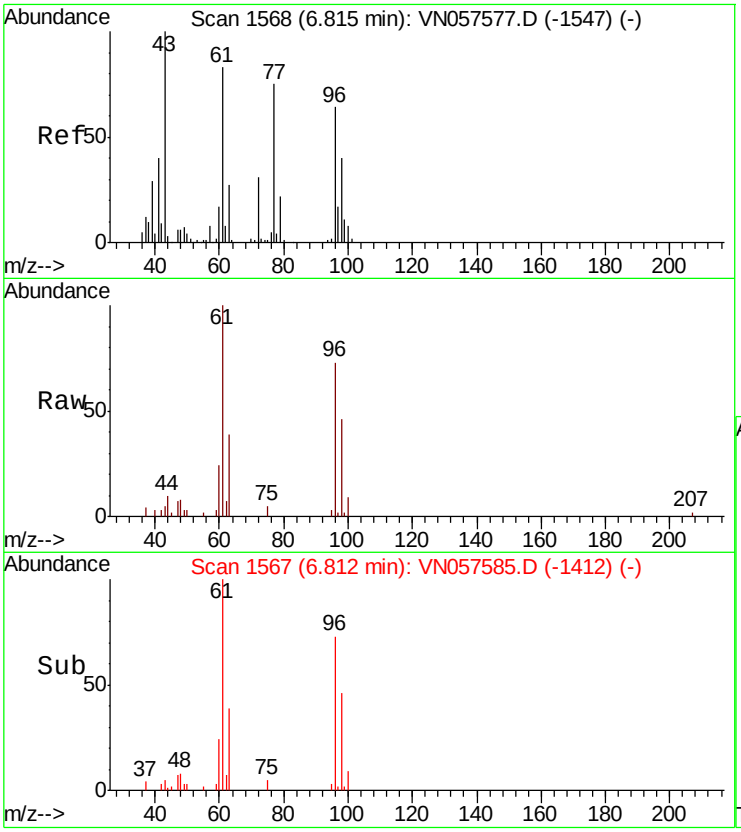




#16
Carbon Disulfide
Concen: 0.310 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 76 Resp: 2228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 6.7 | 10.1# |



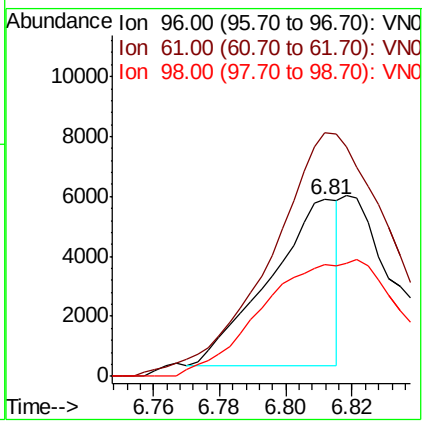


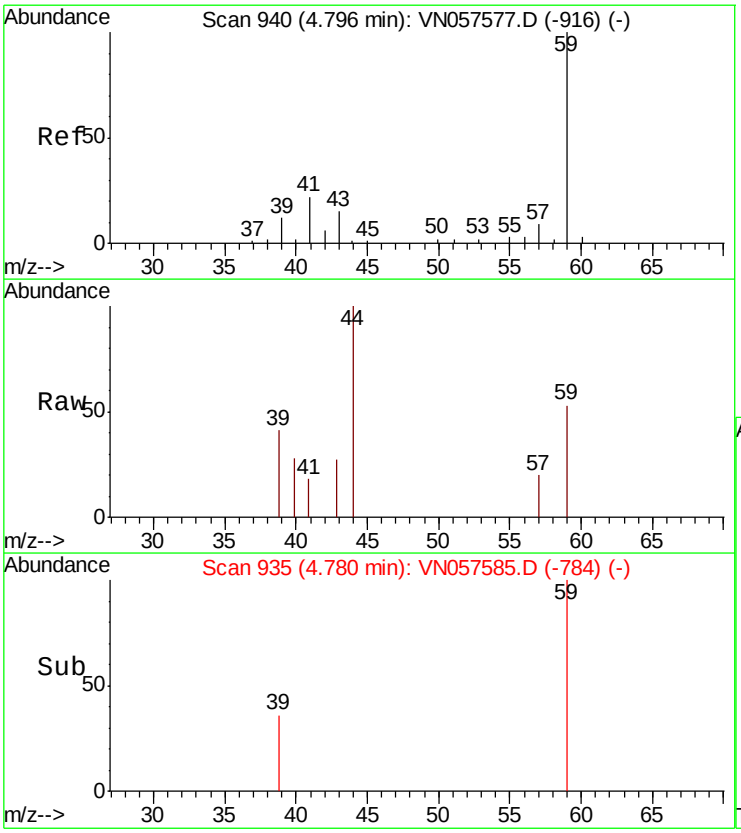

#22
cis-1,2-Dichloroethene
Concen: 1.507 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion: 96 Resp: 7888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 272.2 | 110.5 | 165.7# |
| 98 | 145.1 | 51.1 | 76.7# |

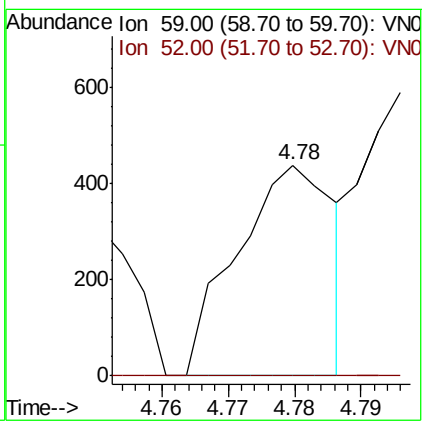


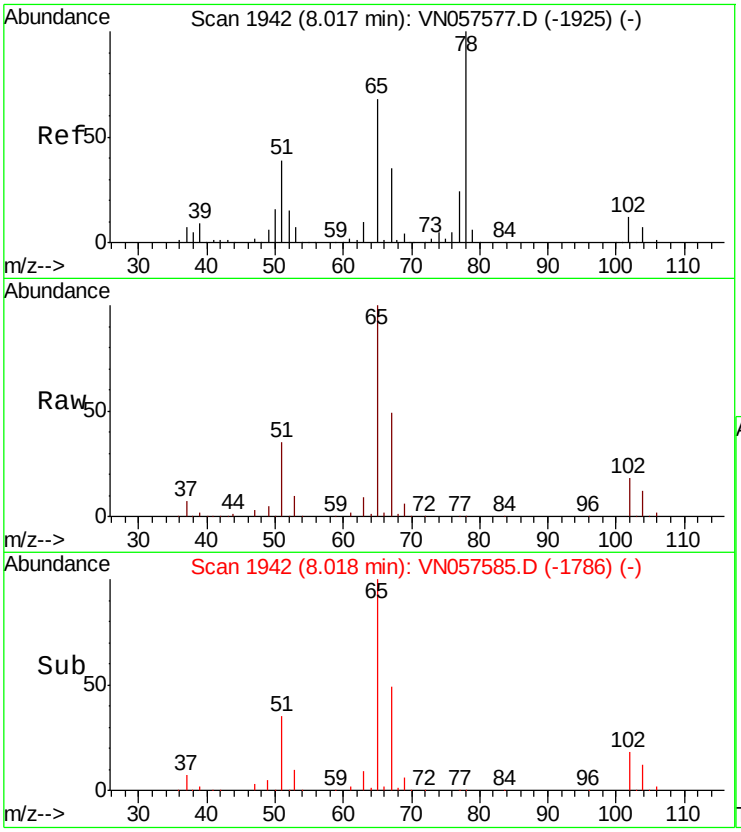




#23
tert-Butyl Alcohol
Concen: 0.821 ug/l
RT: 4.78 min Scan# 935
Delta R.T. -0.02 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 59 Resp: 444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 52 | 0.0 | 0.1 | 0.1# |



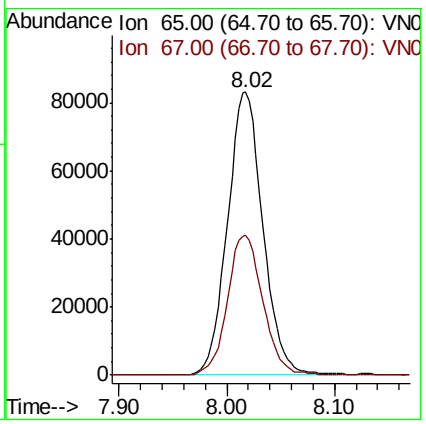


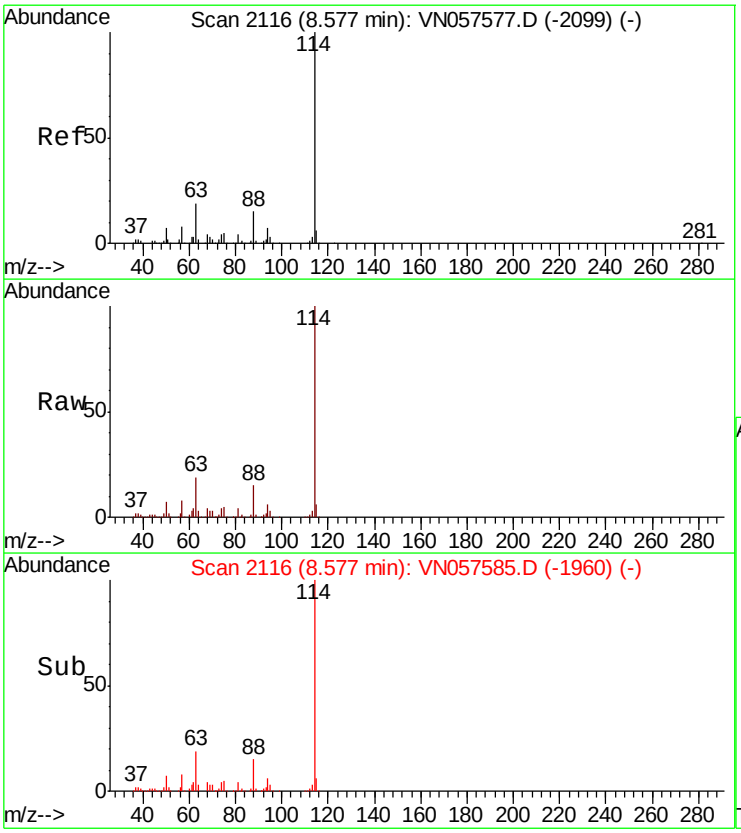

#27
1,2-Dichloroethane-d4
Concen: 31.774 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion: 65 Resp: 189889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.3 | 39.8 | 59.6 |

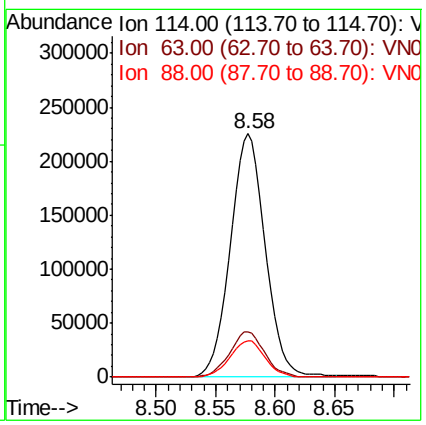


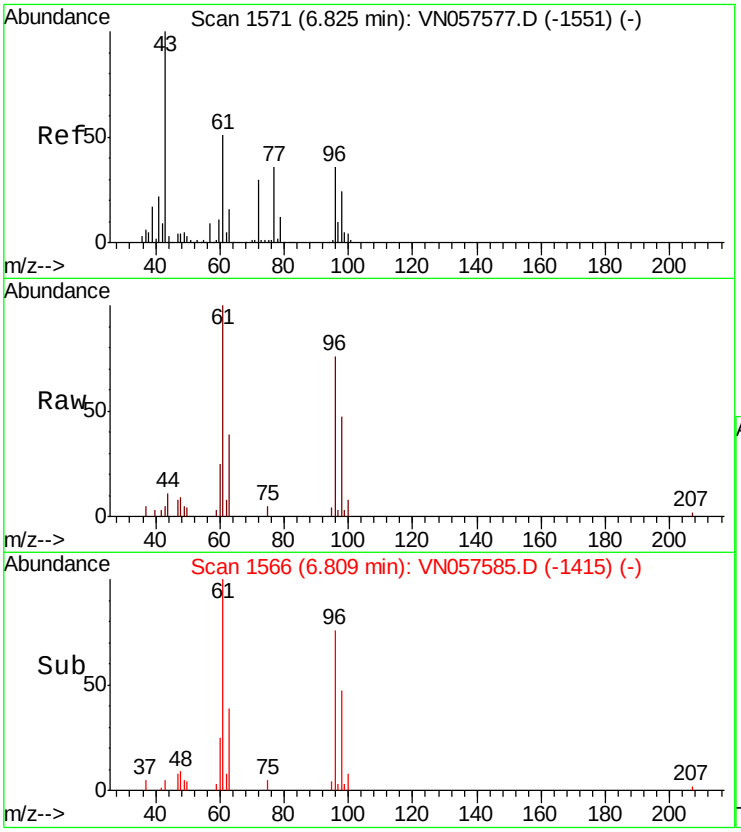




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion:114 Resp: 458645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 15.4 | 23.0 |
| 88 | 15.0 | 11.8 | 17.8 |



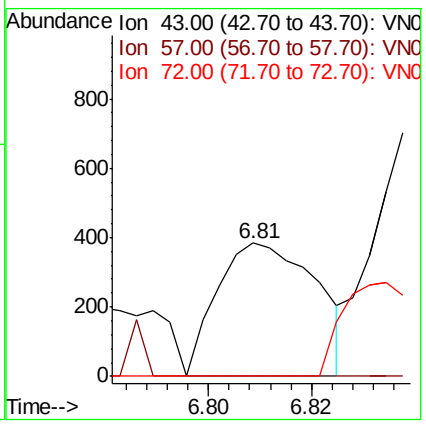


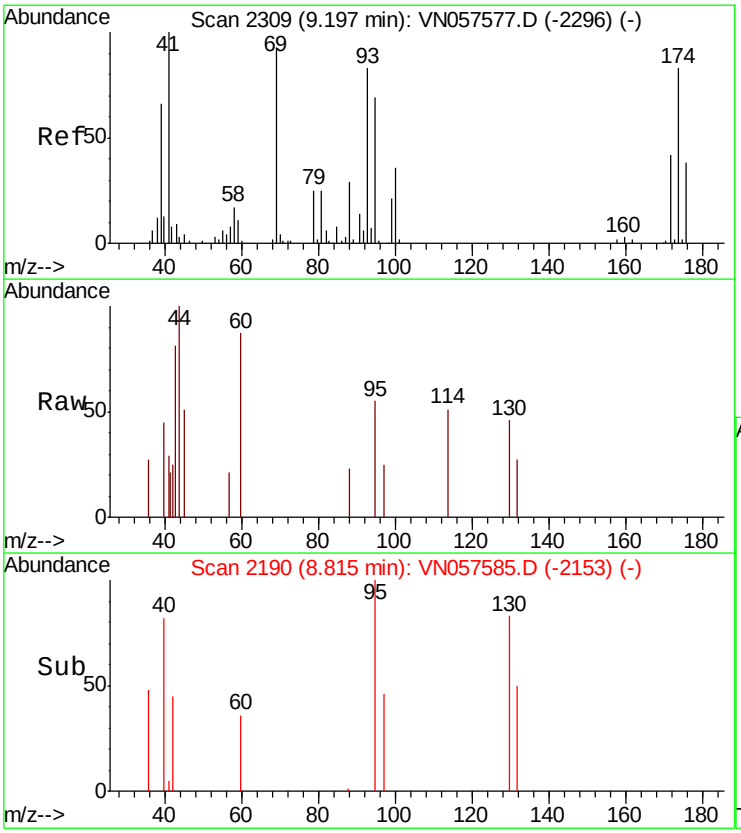

#30
2-Butanone
Concen: 0.254 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.02 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion: 43 Resp: 512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 3.5 | 5.3# |
| 72 | 51.2 | 24.6 | 36.8# |

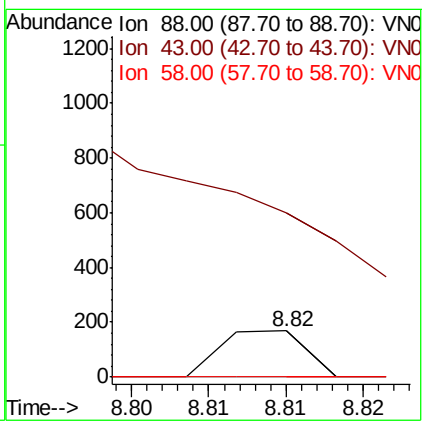


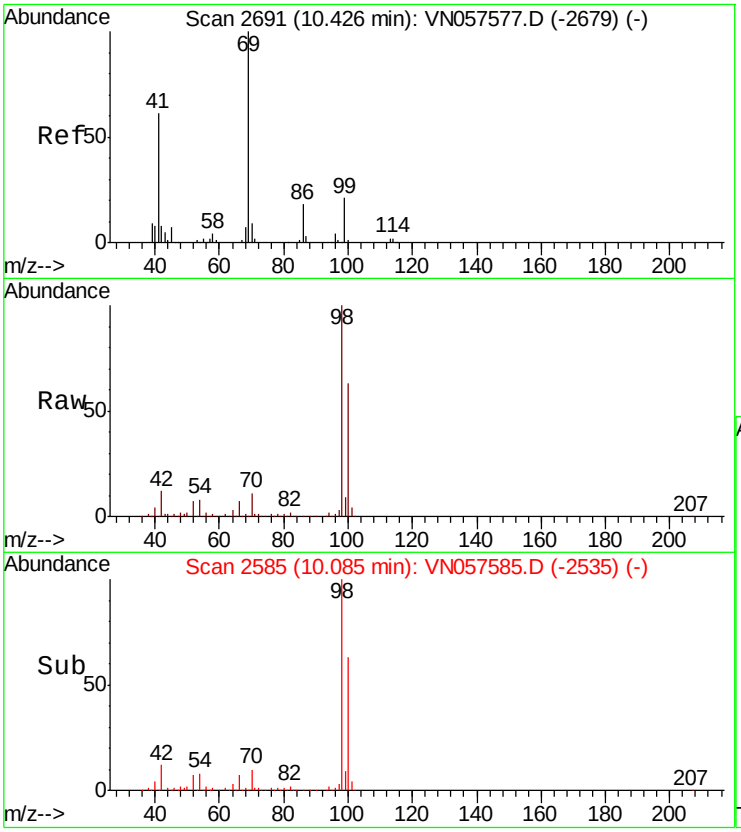




#45
1,4-Dioxane
Concen: 0.957 ug/l
RT: 8.82 min Scan# 2190
Delta R.T. -0.38 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 88 Resp: 64

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 1176.6 | 18.2 | 27.4# |
| 58 | 0.0 | 45.0 | 67.6# |



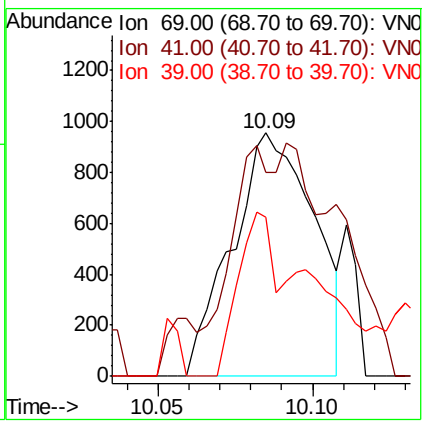


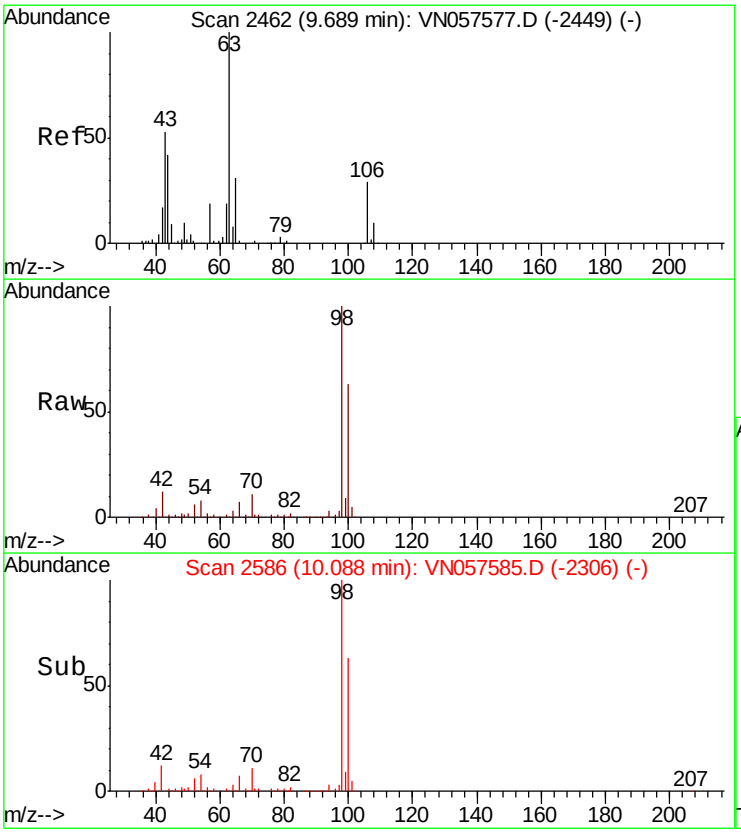

#51
Ethyl methacrylate
Concen: 0.271 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.34 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :** MSVOA_N
**ClientSampleId :** 55-ST-20

Tgt Ion: 69 Resp: 1766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 59.8 | 30.6 | 92.0 |
| 39 | 65.5 | 22.3 | 66.9 |

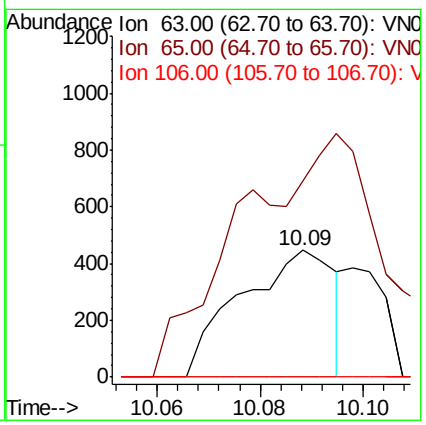


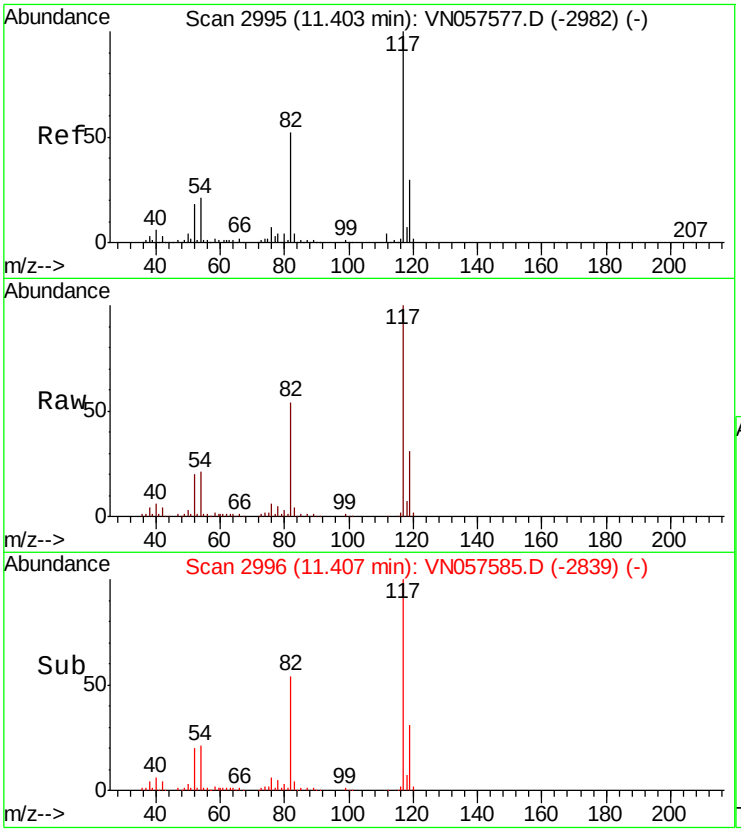




#55
2-Chloroethyl vinyl ether
Concen: 0.354 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.40 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 63 Resp: 566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 171.9 | 25.0 | 37.4# |
| 106 | 0.0 | 23.7 | 35.5# |



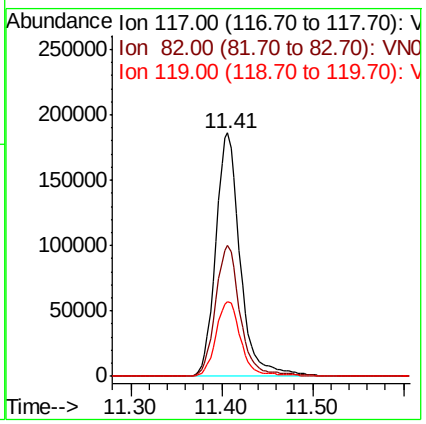


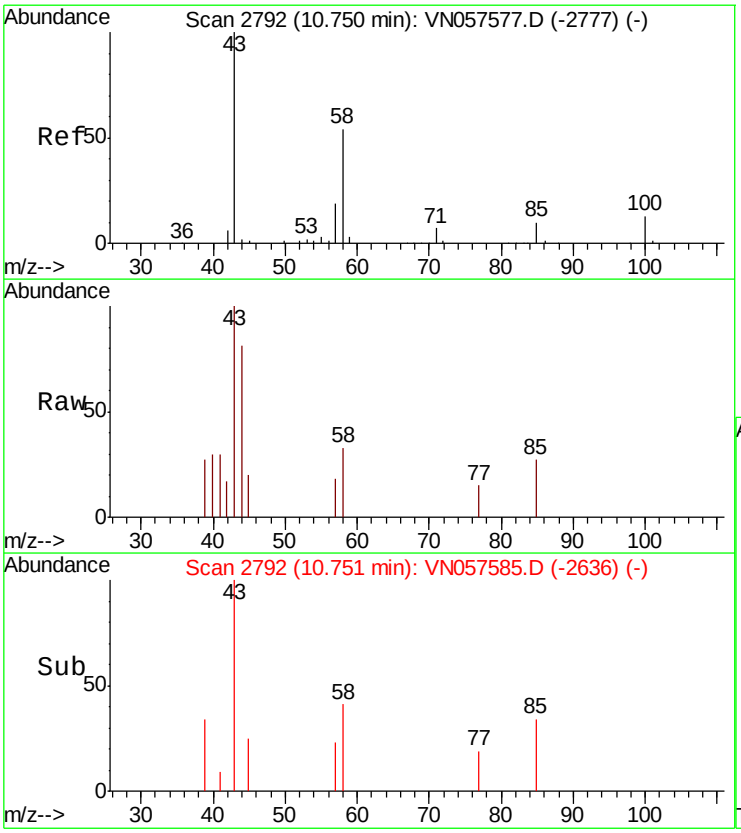

#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :** MSVOA_N
**ClientSampleId :** 55-ST-20

Tgt Ion:117 Resp: 347127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.7 | 42.6 | 63.8 |
| 119 | 30.9 | 25.0 | 37.6 |

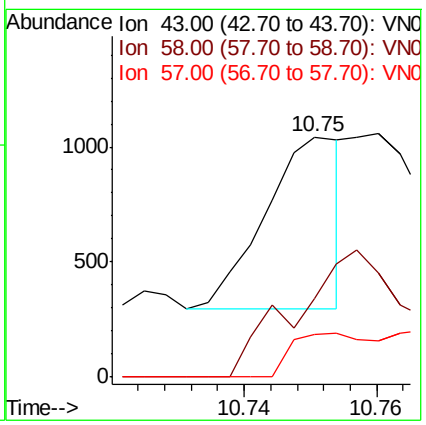


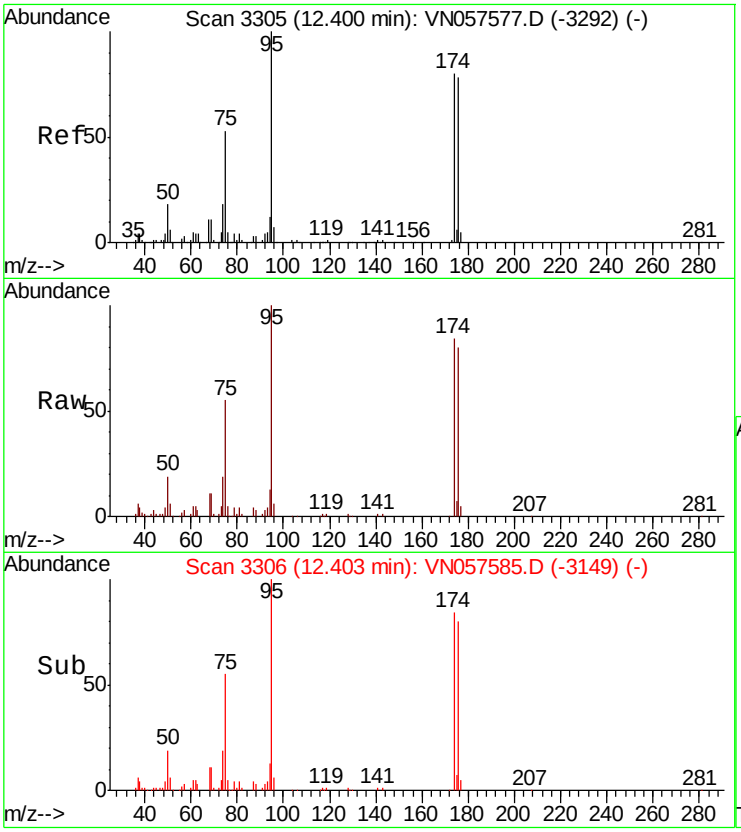




#59
2-Hexanone
Concen: 0.241 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 43 Resp: 597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 78.2 | 42.9 | 64.3# |
| 57 | 28.0 | 15.4 | 23.2# |



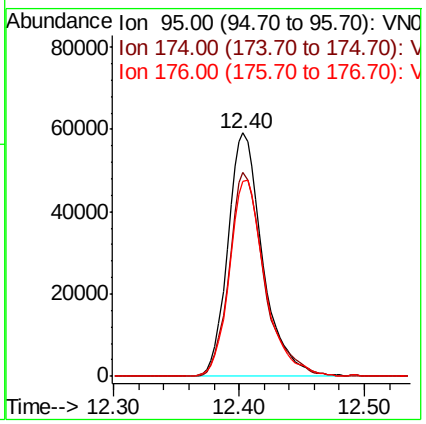


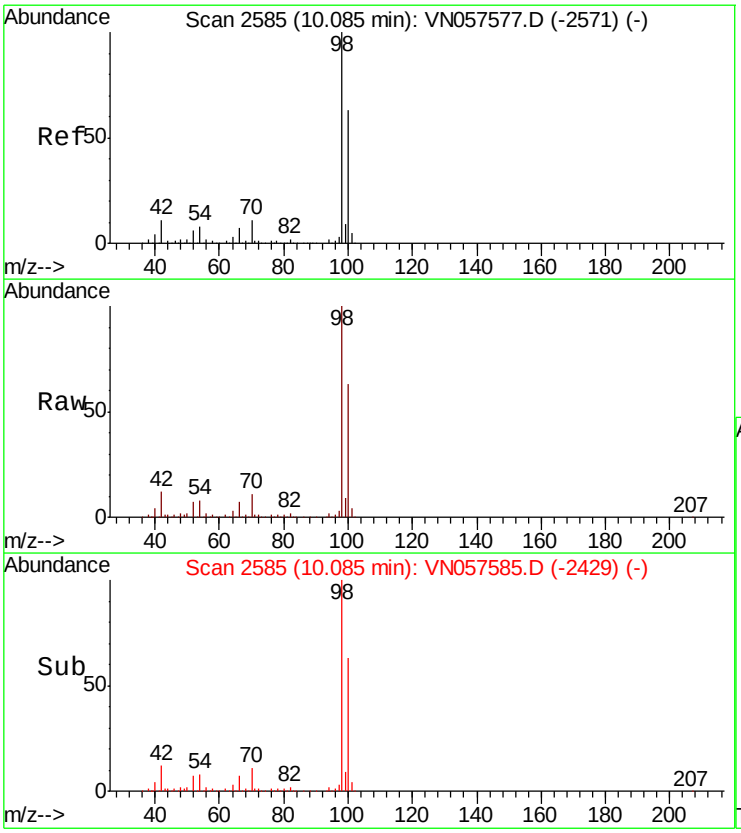

#60
4-Bromofluorobenzene
Concen: 21.651 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion: 95 Resp: 114257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.1 | 66.2 | 99.2 |
| 176 | 82.1 | 65.0 | 97.6 |

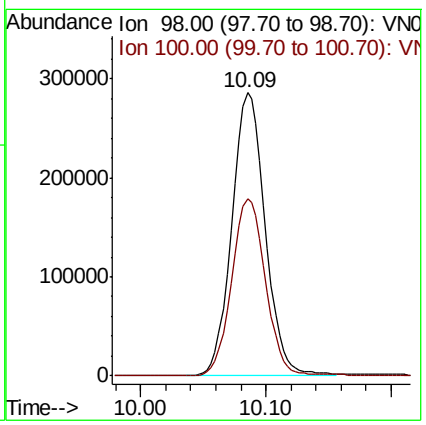


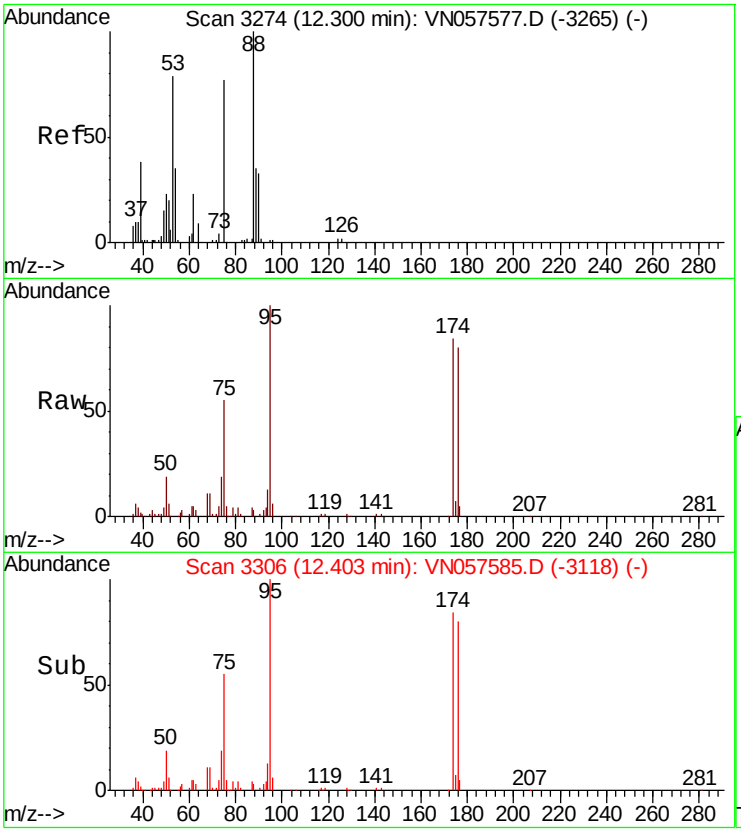




#63
Toluene-d8
Concen: 32.893 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion: 98 Resp: 528771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.1 | 50.2 | 75.2 |



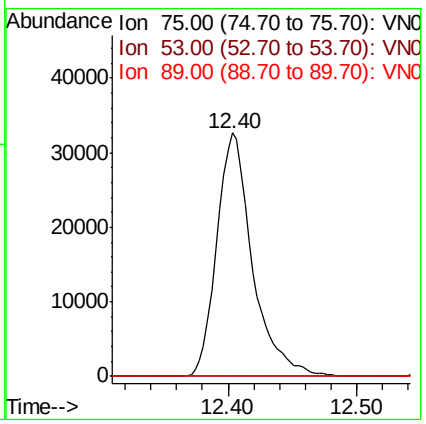


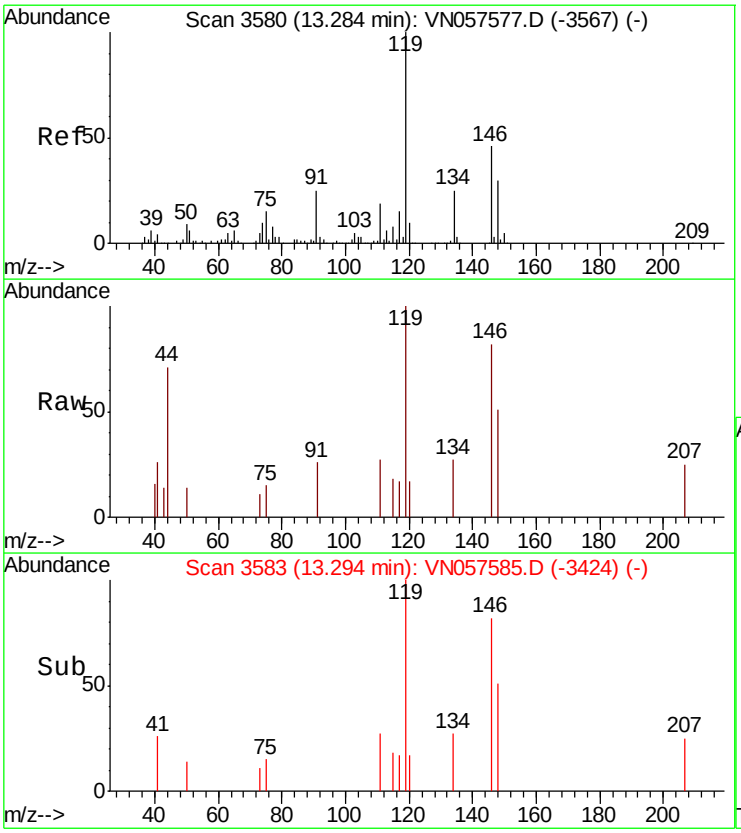

#77
t-1,4-Dichloro-2-butene
Concen: 45.880 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :** MSVOA_N
**ClientSampleId :** 55-ST-20

Tgt Ion: 75 Resp: 62609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 52.8 | 158.4# |
| 89 | 0.0 | 23.2 | 69.5# |

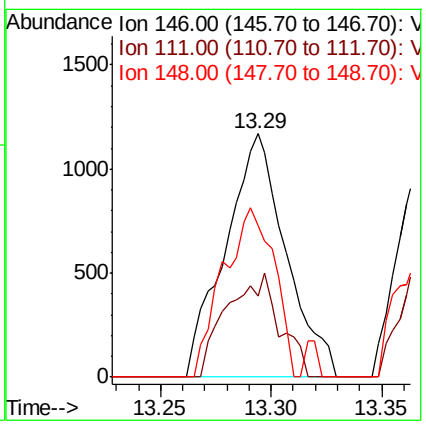


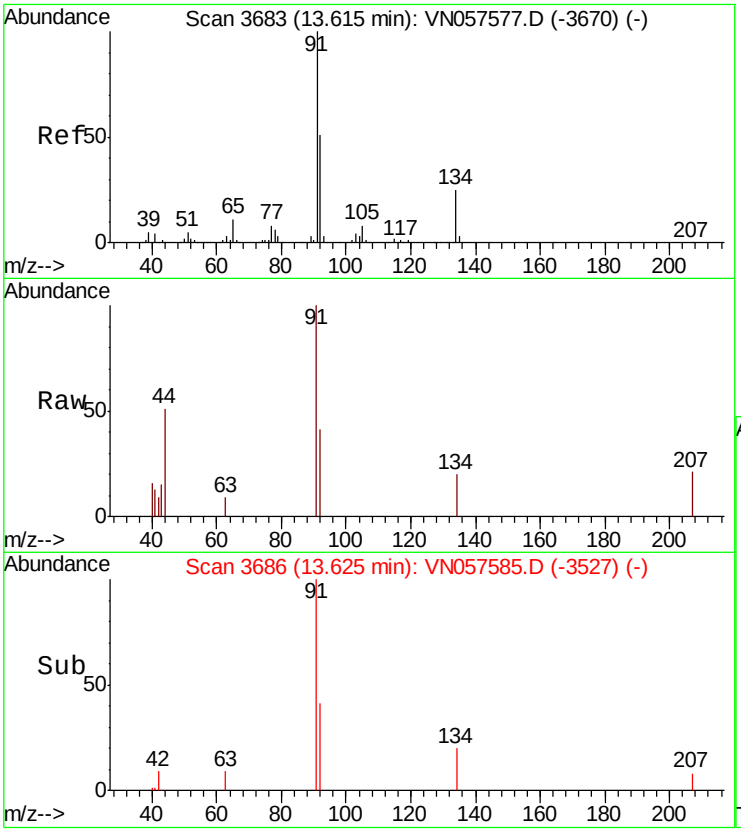




#83
1,3-Dichlorobenzene
Concen: 0.282 ug/l
RT: 13.29 min Scan# 3583
Delta R.T. 0.01 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion:146 Resp: 2225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 4.6 | 20.0 | 60.0# |
| 148 | 3.1 | 32.3 | 96.9# |



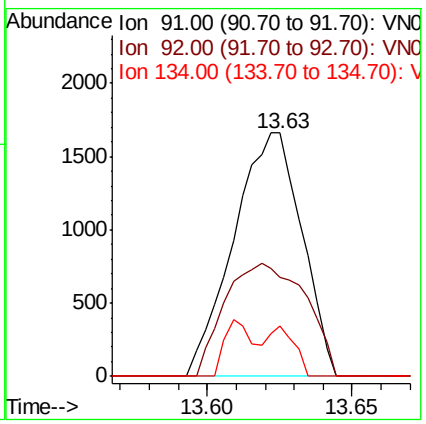


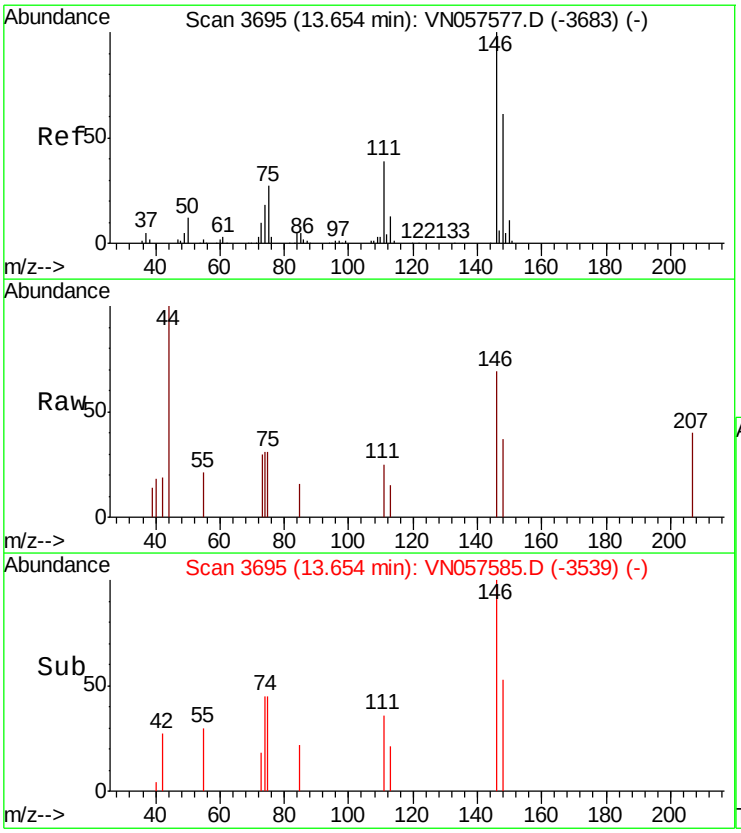

#85
n-Butylbenzene
Concen: 0.219 ug/l
RT: 13.63 min Scan# 3686
Delta R.T. 0.01 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion: 91 Resp: 2714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 0.0 | 103.0 |
| 134 | 7.7 | 0.0 | 51.0 |

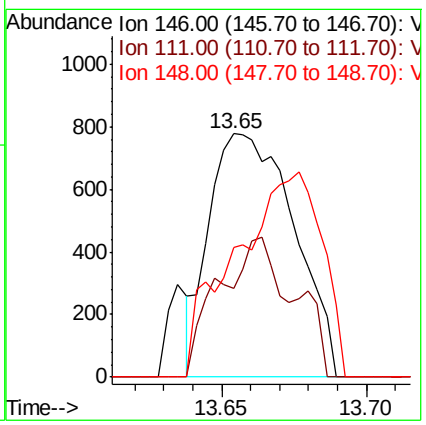


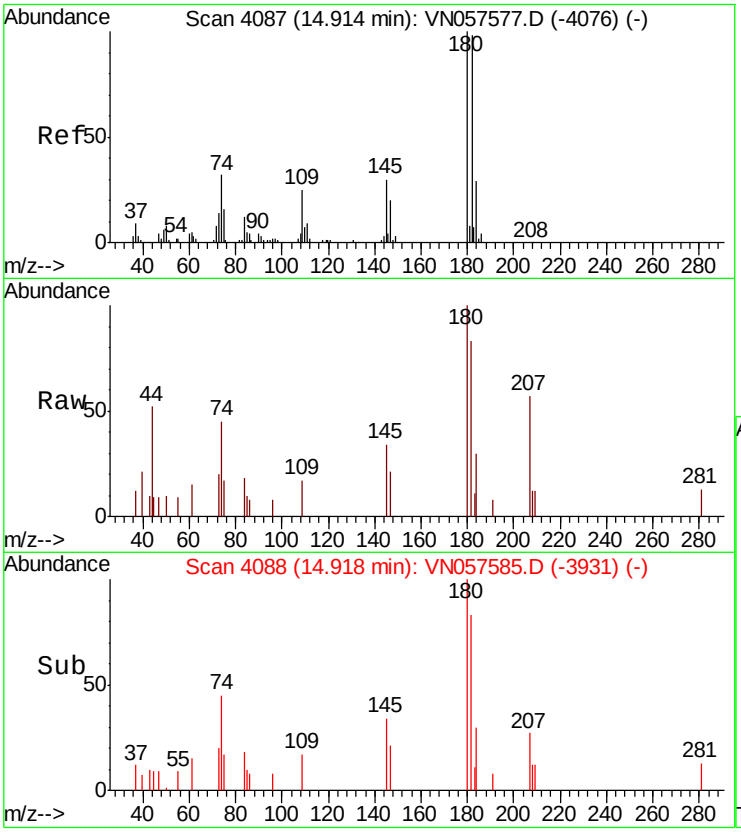




#87
1,2-Dichlorobenzene
Concen: 0.208 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion:146 Resp: 1579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 25.4 | 19.9 | 59.6 |
| 148 | 19.1 | 31.2 | 93.6# |



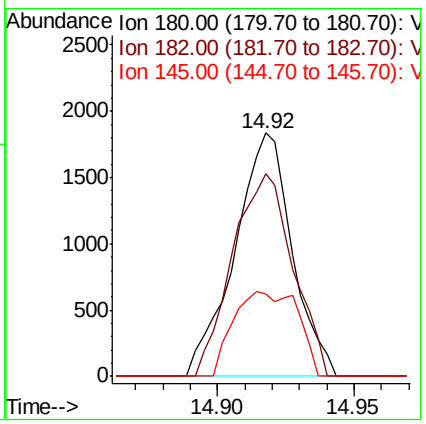


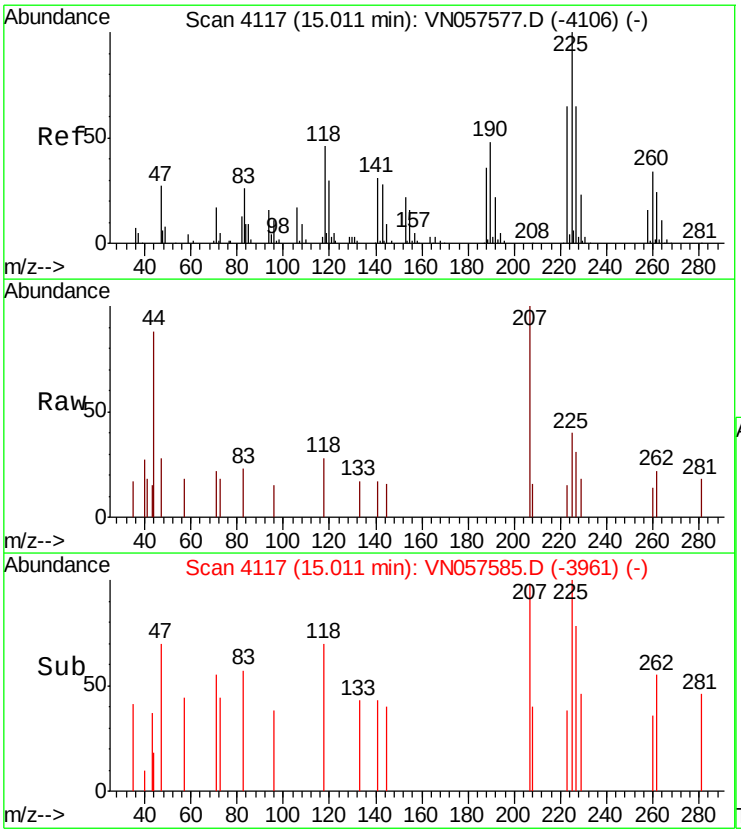

#89
1,2,4-Trichlorobenzene
Concen: 0.957 ug/l
RT: 14.92 min Scan# 4088
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion:180 Resp: 2673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 87.8 | 76.6 | 115.0 |
| 145 | 25.7 | 24.4 | 36.6 |

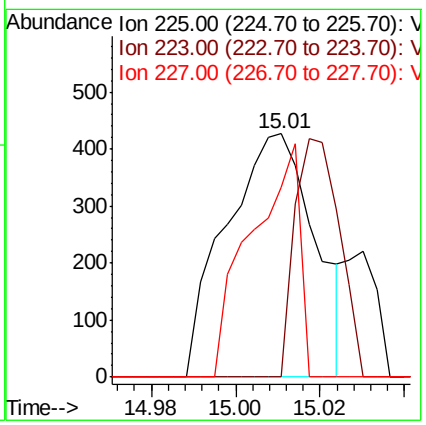


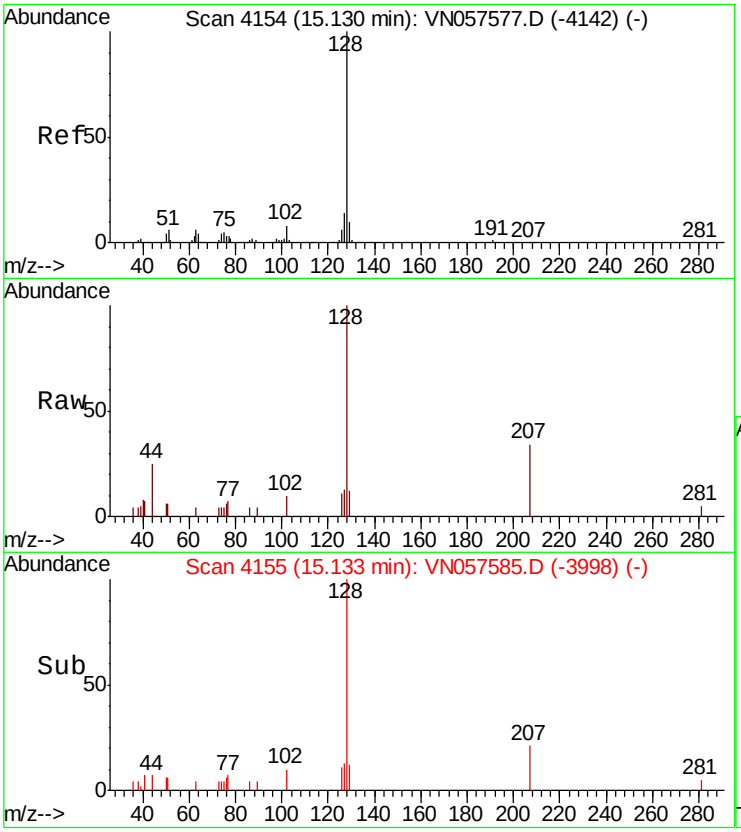




#90
Hexachlorobutadiene
Concen: 0.260 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion:225 Resp: 625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 49.1 | 0.0 | 130.6 |
| 227 | 52.3 | 0.0 | 131.0 |



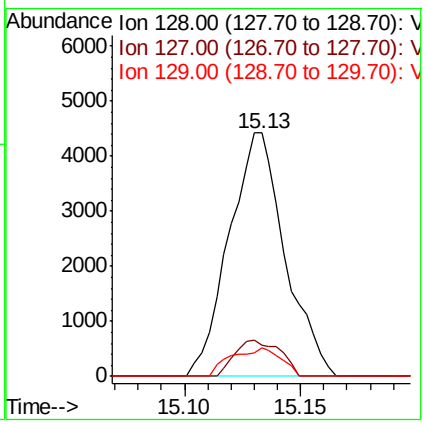


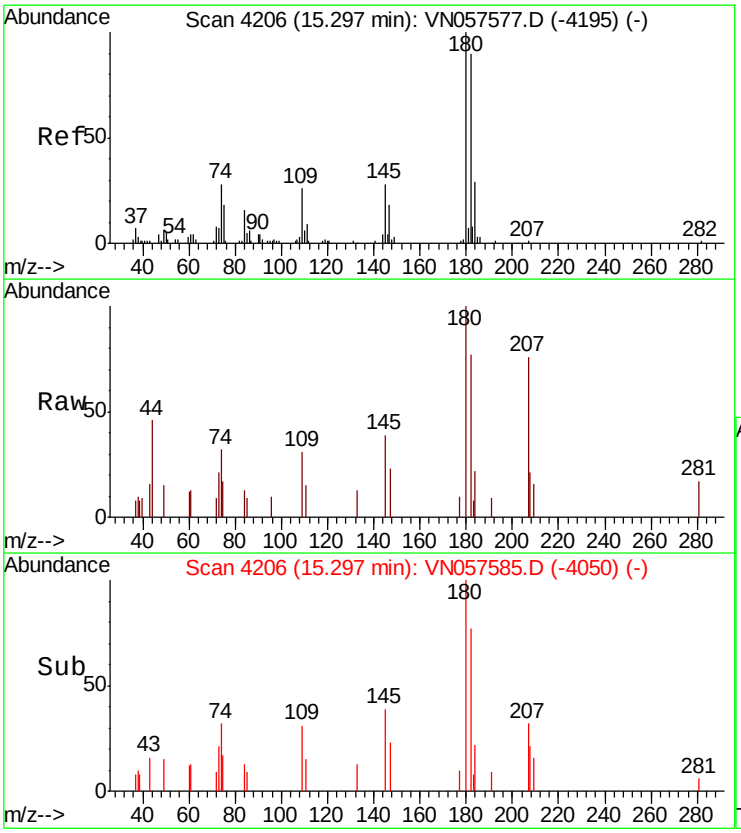

#91
Naphthalene
Concen: 0.951 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

**Instrument :**
MSVOA_N
**ClientSampleId :**
55-ST-20

Tgt Ion:128 Resp: 7393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 8.8 | 10.6 | 16.0# |
| 129 | 10.6 | 8.1 | 12.1 |




#92
1,2,3-Trichlorobenzene
Concen: 1.165 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057585.D
Acq: 30 Aug 2019 13:27

Tgt Ion:180 Resp: 3224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 89.8 | 0.0 | 181.0 |
| 145 | 33.7 | 0.0 | 62.2 |