Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
Data File : VL034483.D
Acq On : 10 Dec 2019 3:26
Operator : SY/AP
Sample : K6181-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1A-2DL

Manual Integrations APPROVED
apatel
12/11/2019 2:13:09 PM

Quant Time: Dec 10 07:25:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 1
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.67 | 49 | 963806 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.19 | 114 | 1905959 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.13 | 117 | 1913040 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.47 | 95 | 1630801 | 10.13 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.30% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 3) Chlorodifluoromethane | 2.96 | 51 | 29312 | 0.244 | ppbv | | 93 |
| 9) Propene | 2.99 | 41 | 27335m | 0.512 | ppbv | | |
| 13) Ethanol | 3.59 | 45 | 77580 | 5.217 | ppbv | | 94 |
| 15) Acetone | 3.85 | 43 | 229734 | 1.665 | ppbv | # | 80 |
| 19) Isopropyl Alcohol | 3.97 | 45 | 22659m | 0.256 | ppbv | | |
| 20) Methylene Chloride | 4.34 | 84 | 26025m | 0.532 | ppbv | | |
| 26) Hexane | 5.70 | 57 | 36950 | 0.349 | ppbv | # | 41 |
| 34) 2-Butanone | 5.26 | 43 | 18074 | 0.115 | ppbv | # | 91 |
| 36) Benzene | 6.90 | 78 | 48540m | 0.255 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 7.90 | 57 | 37882m | 0.109 | ppbv | | |
| 53) Toluene | 9.85 | 91 | 137623 | 0.636 | ppbv | | 97 |
| 58) Ethyl Benzene | 12.76 | 91 | 30721m | 0.103 | ppbv | | |
| 59) m/p-Xylene | 13.01 | 91 | 102030m | 0.398 | ppbv | | |
| 60) o-Xylene | 13.74 | 91 | 26941m | 0.106 | ppbv | | |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
Data File : VL034483.D
Acq On : 10 Dec 2019 3:26
Operator : SY/AP
Sample : K6181-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 10 07:25:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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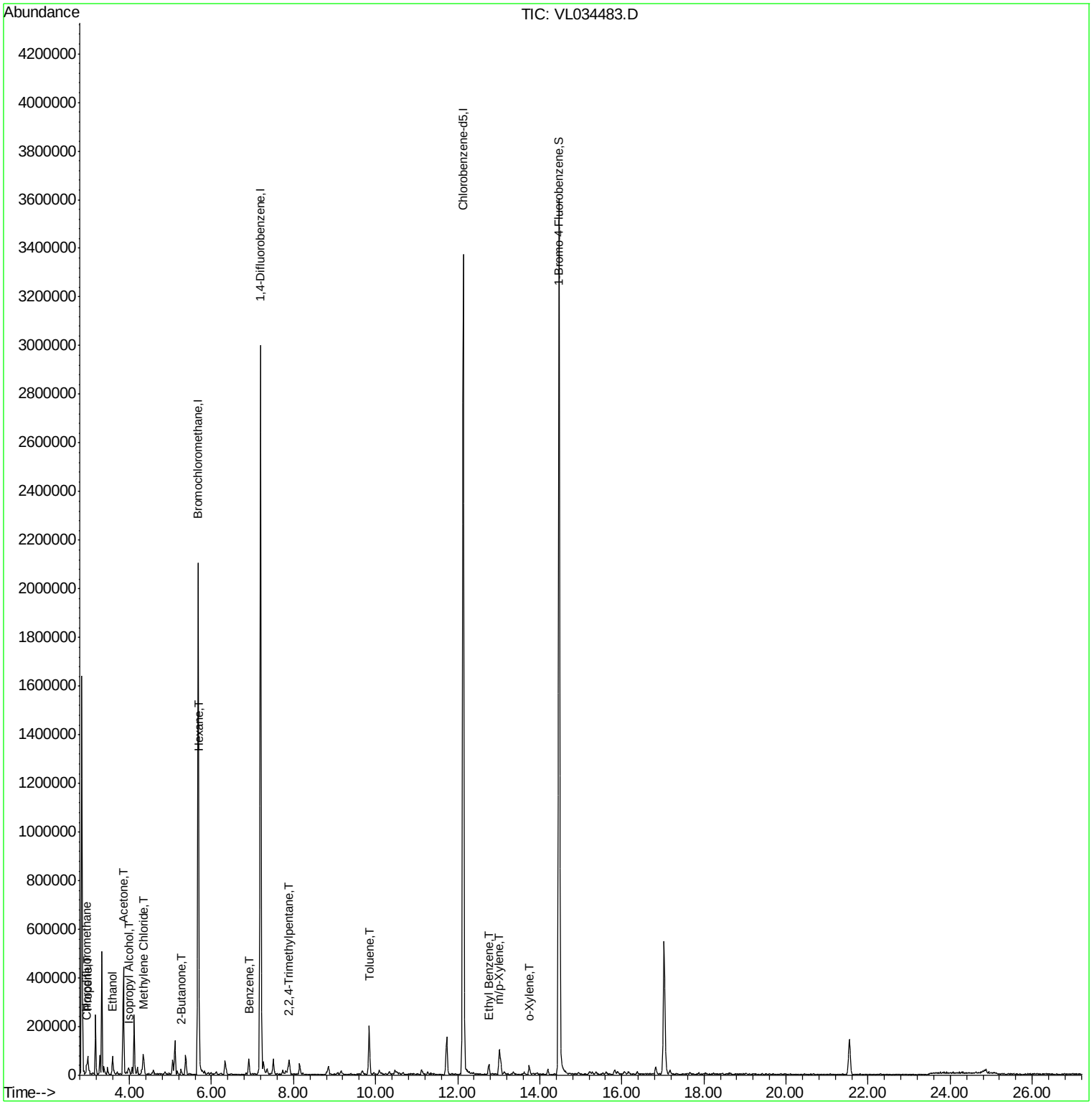
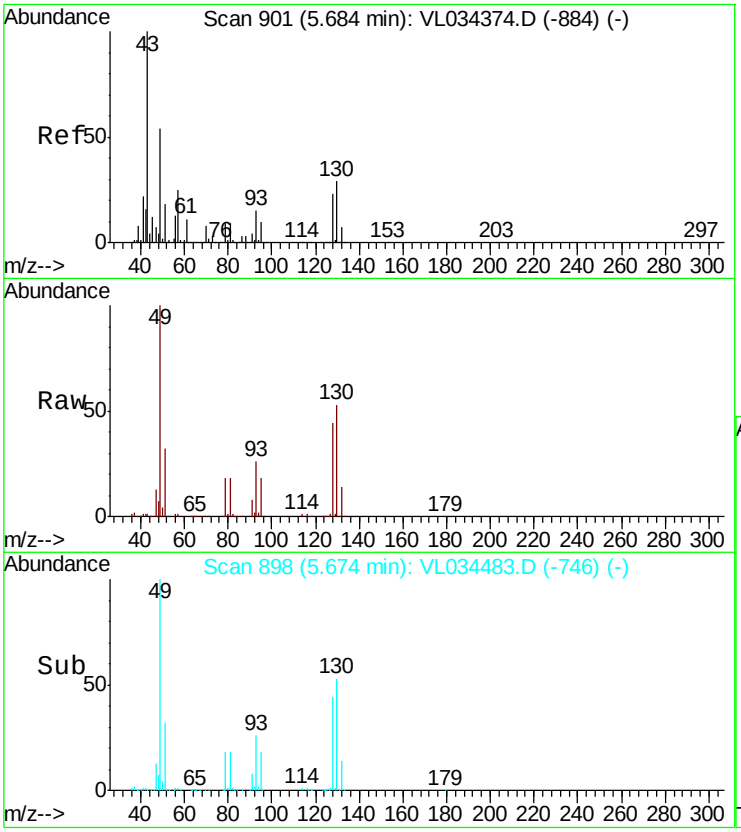
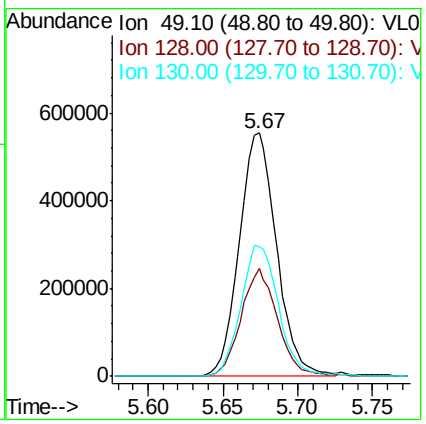





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 49 Resp: 963806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.6 | 21.8 | 65.3 |
| 130 | 55.1 | 28.0 | 84.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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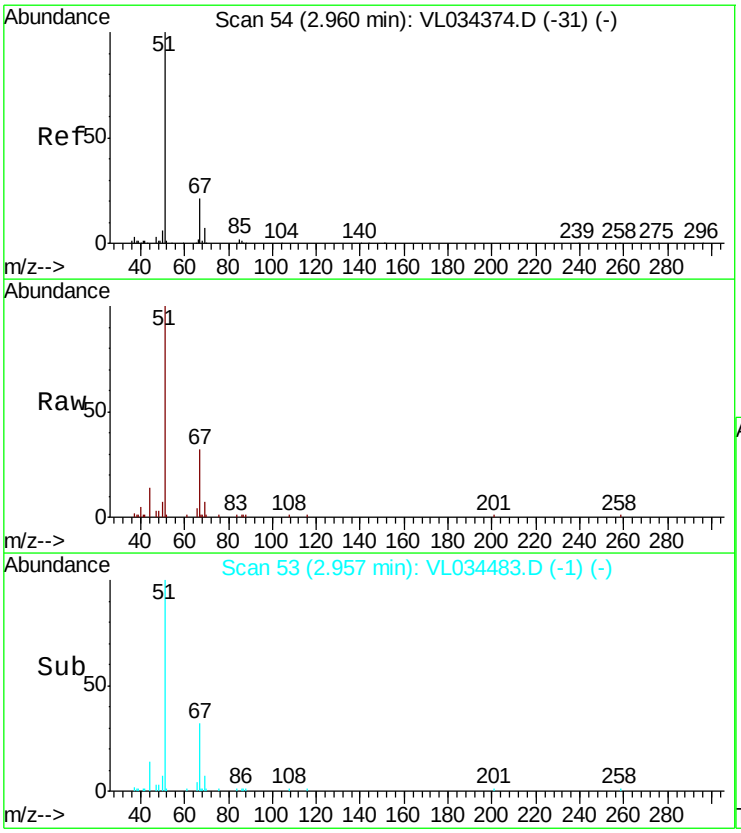
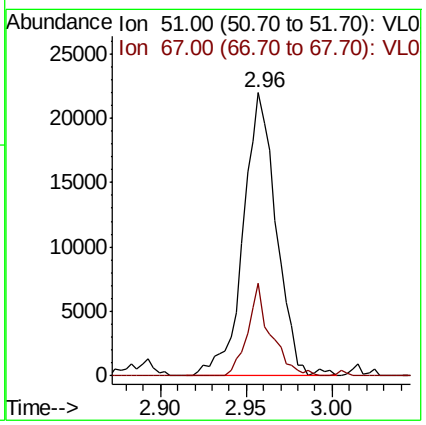
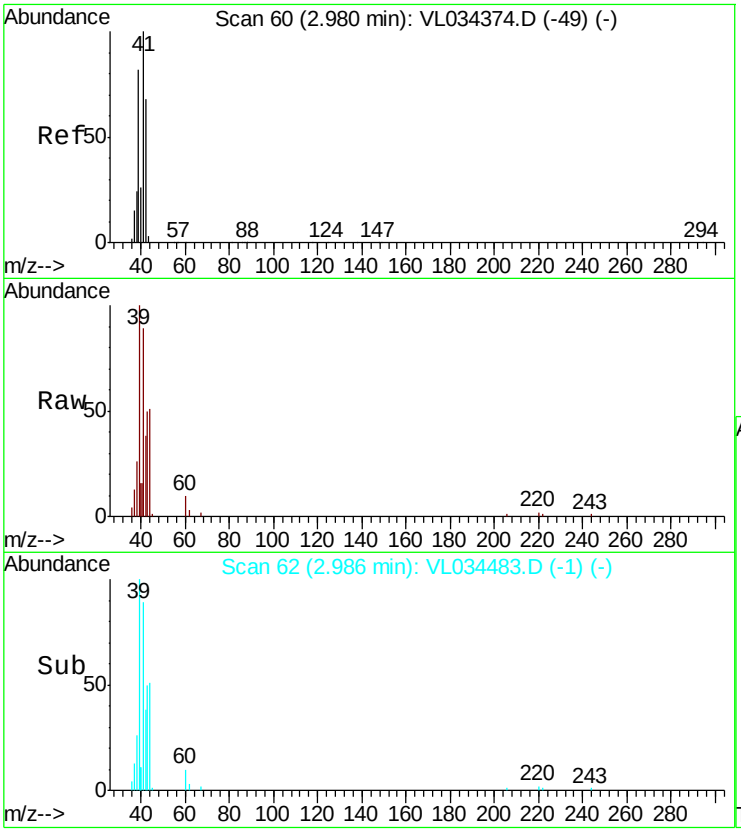



#3
Chlorodifluoromethane
Concen: 0.244 ppbv
RT: 2.96 min Scan# 53
Delta R.T. -0.00 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 51 Resp: 29312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 23.2 | 16.2 | 24.2 |






#9
Propene
Concen: 0.512 ppbv m
RT: 2.99 min Scan# 62
Delta R.T. 0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 41 Resp: 27335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 141.0 | 54.6 | 82.0# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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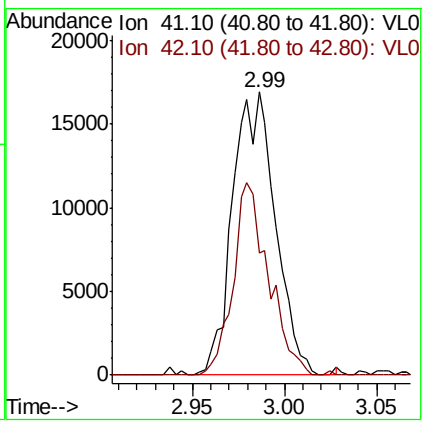
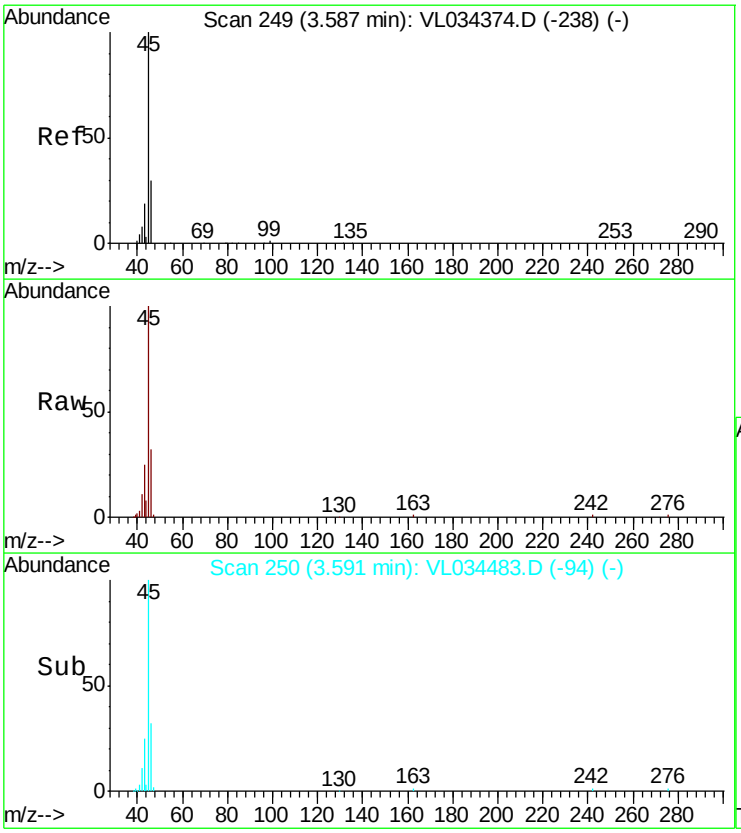
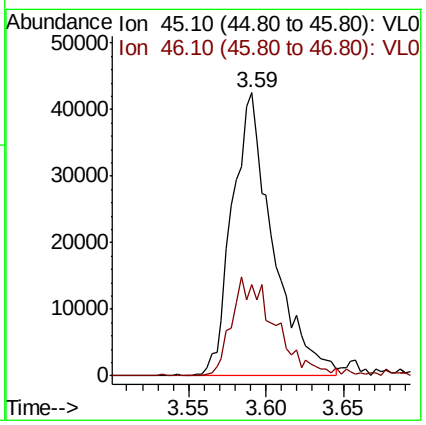


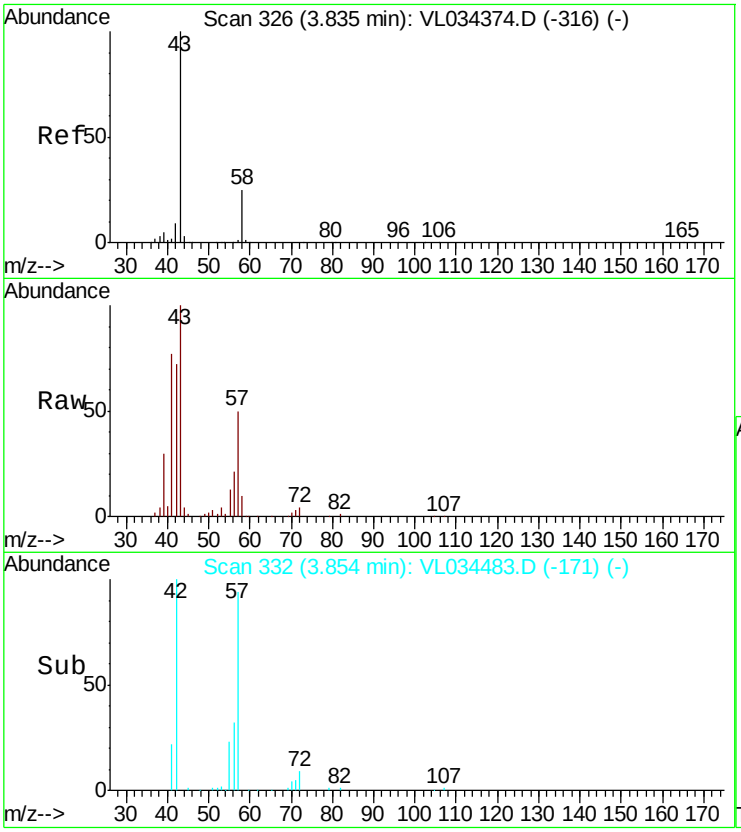




#13
Ethanol
Concen: 5.217 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.00 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 45 Resp: 77580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.0 | 13.8 | 55.4 |

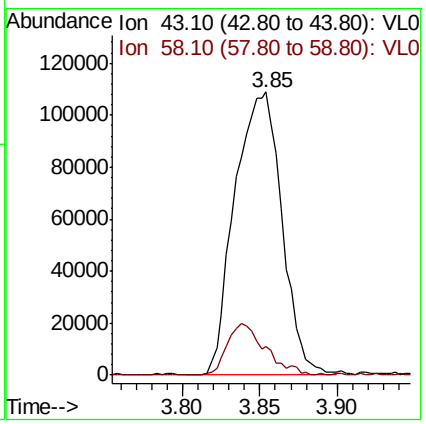





#15
Acetone
Concen: 1.665 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 43 Resp: 229734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 15.0 | 20.2 | 30.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

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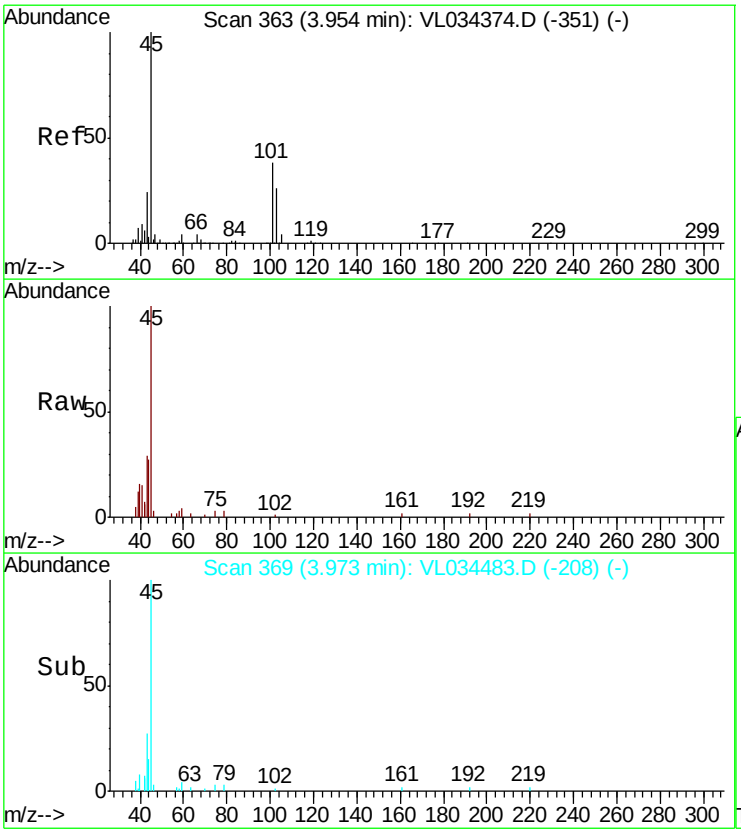
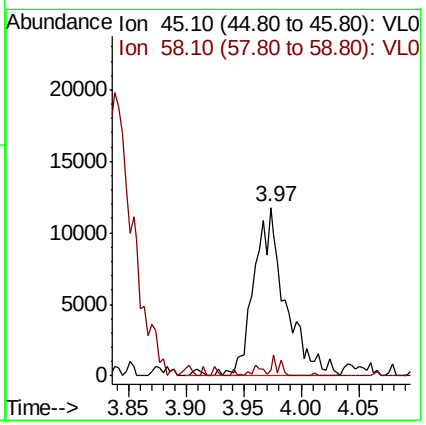
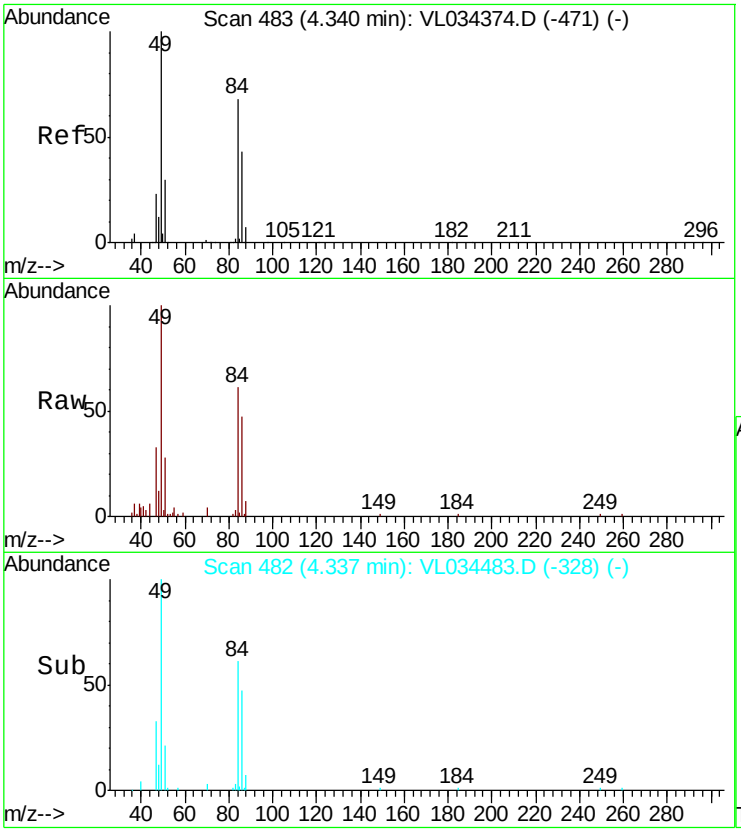



#19
Isopropyl Alcohol
Concen: 0.256 ppbv m
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 45 Resp: 22659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 5.5 | 1.3 | 1.9# |

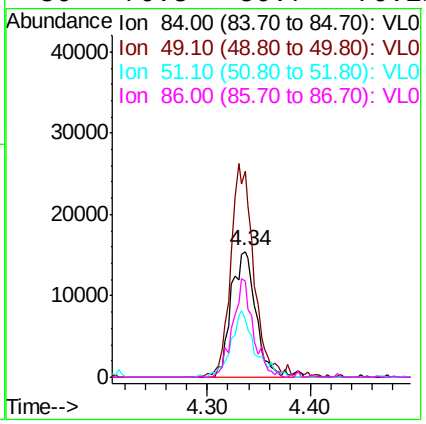





#20
Methylene Chloride
Concen: 0.532 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 84 Resp: 26025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 163.6 | 116.8 | 175.2 |
| 51 | 46.0 | 35.6 | 53.4 |
| 86 | 76.8 | 50.7 | 76.1# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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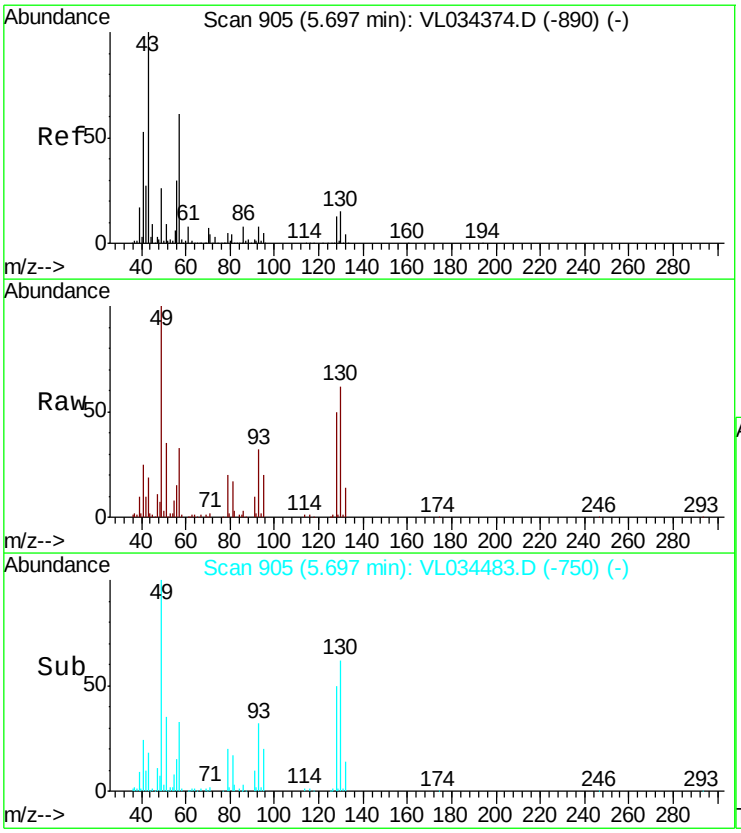
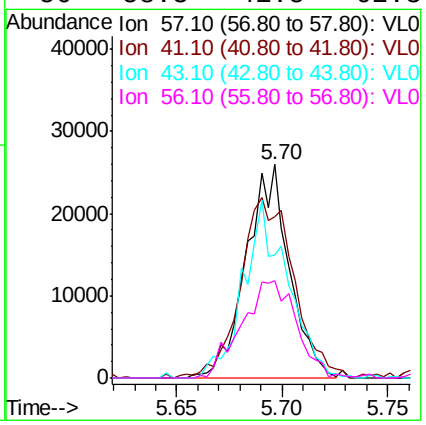
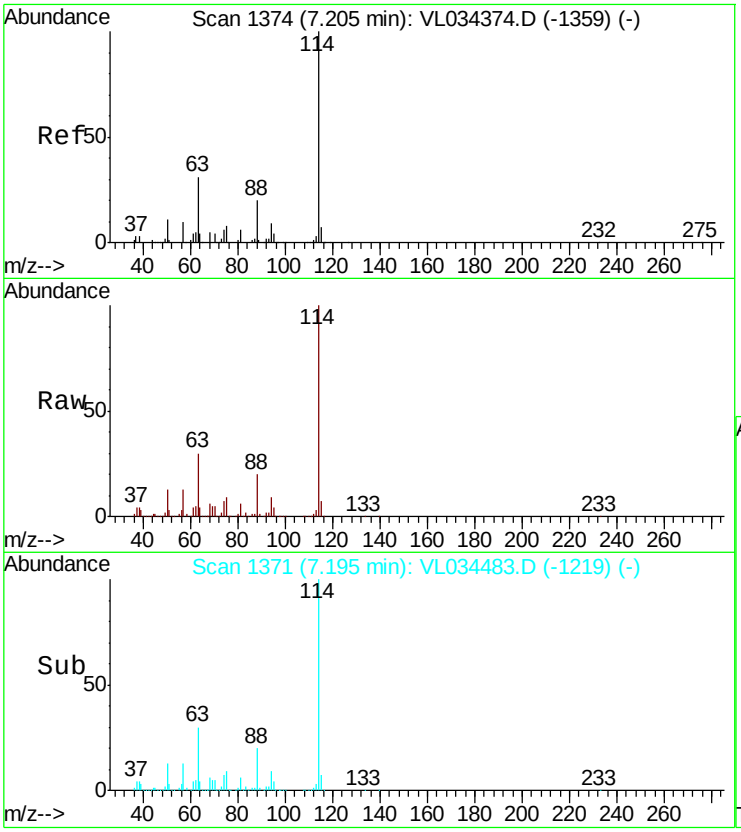



#26
Hexane
Concen: 0.349 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 57 Resp: 36950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 105.3 | 75.0 | 112.4 |
| 43 | 85.2 | 186.6 | 279.8# |
| 56 | 58.3 | 41.5 | 62.3 |

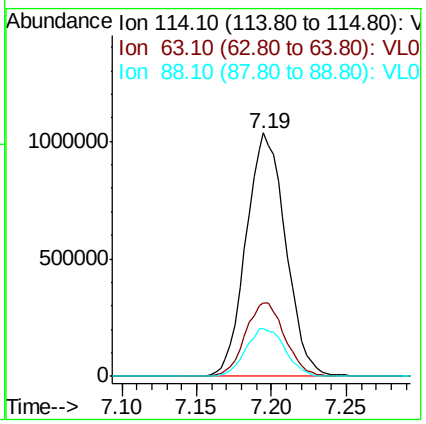





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion:114 Resp: 1905959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 30.2 | 24.2 | 36.4 |
| 88 | 19.7 | 15.9 | 23.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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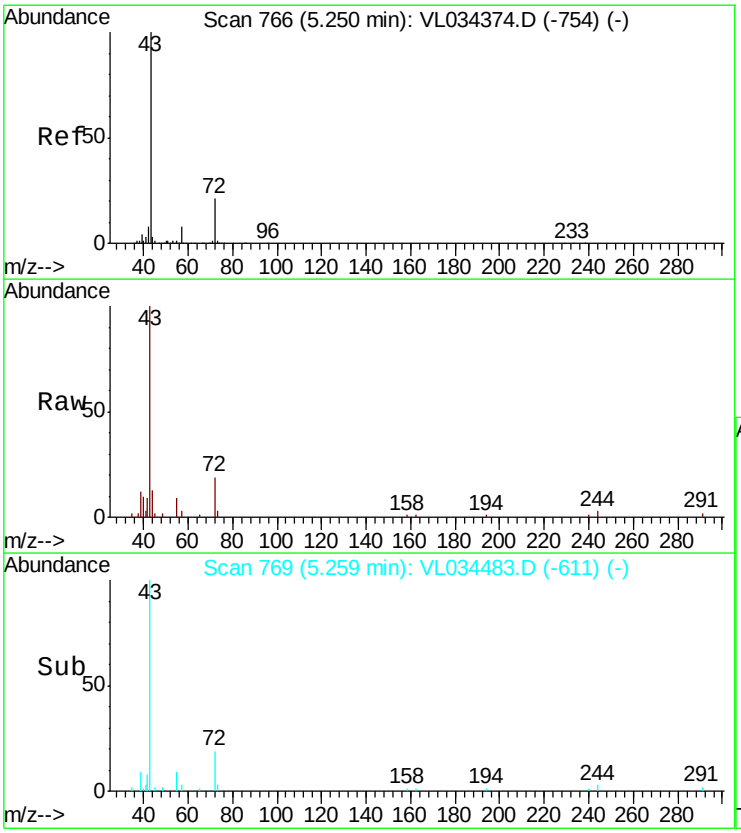
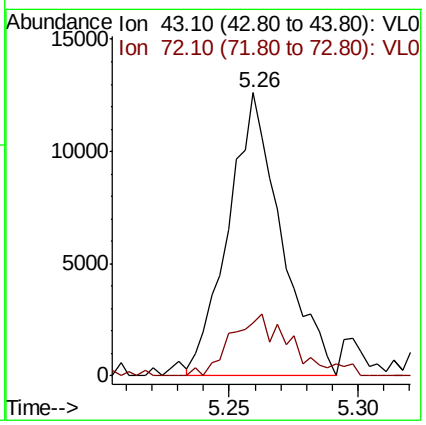
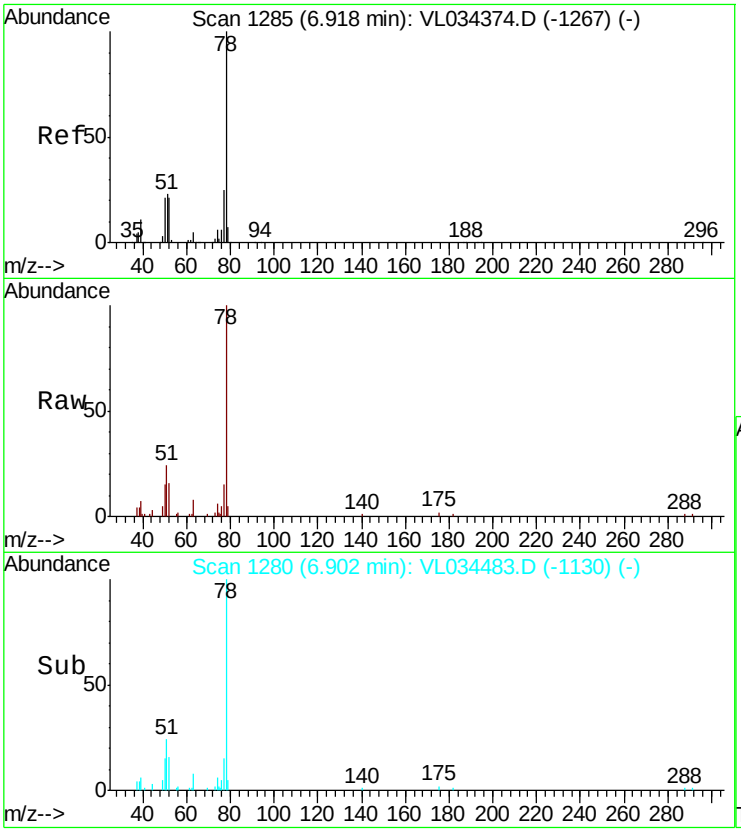



#34
2-Butanone
Concen: 0.115 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 43 Resp: 18074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.7 | 17.0 | 25.6# |

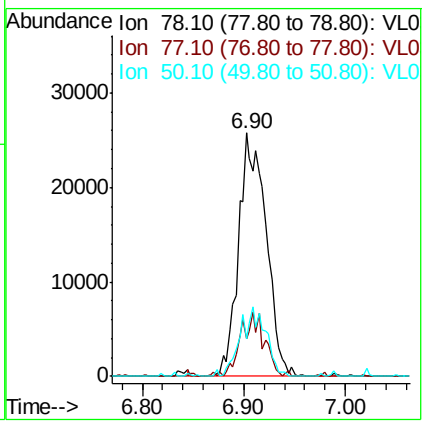





#36
Benzene
Concen: 0.255 ppbv m
RT: 6.90 min Scan# 1280
Delta R.T. -0.02 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 78 Resp: 48540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 15.3 | 20.2 | 30.4# |
| 50 | 15.5 | 17.1 | 25.7# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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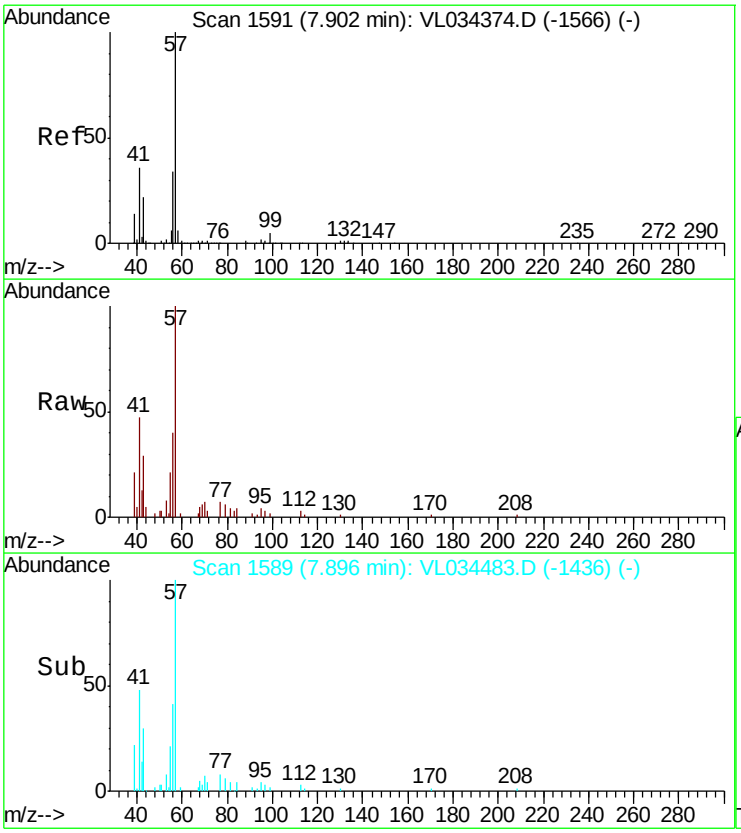
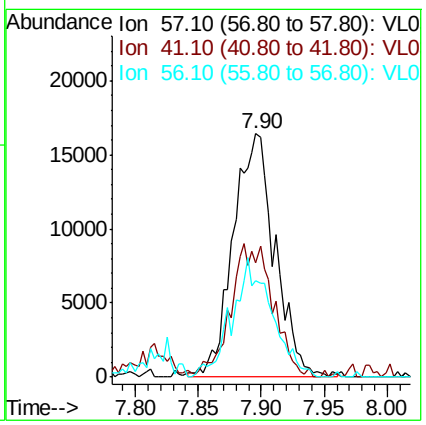
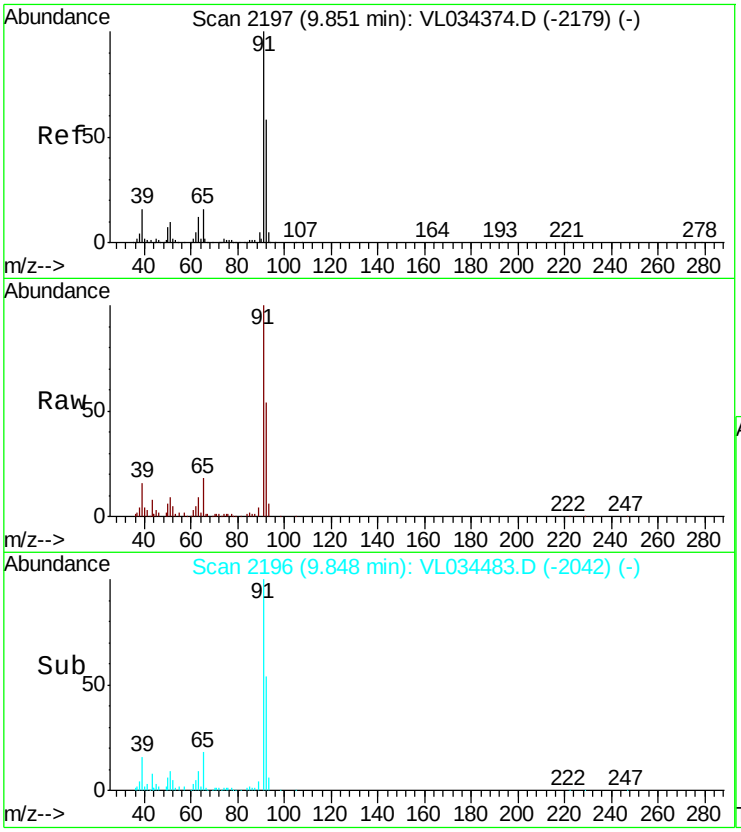



#44
2,2,4-Trimethylpentane
Concen: 0.109 ppbv m
RT: 7.90 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 57 Resp: 37882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 28.6 | 42.8# |
| 56 | 0.0 | 25.3 | 37.9# |

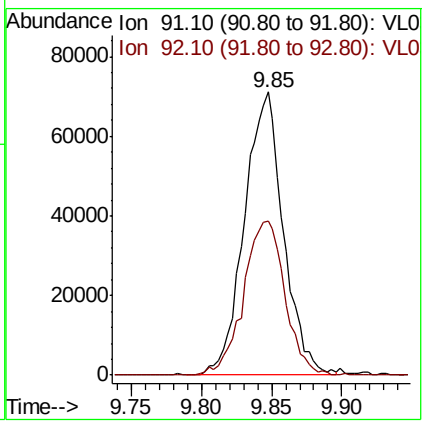





#53
Toluene
Concen: 0.636 ppbv
RT: 9.85 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 91 Resp: 137623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.5 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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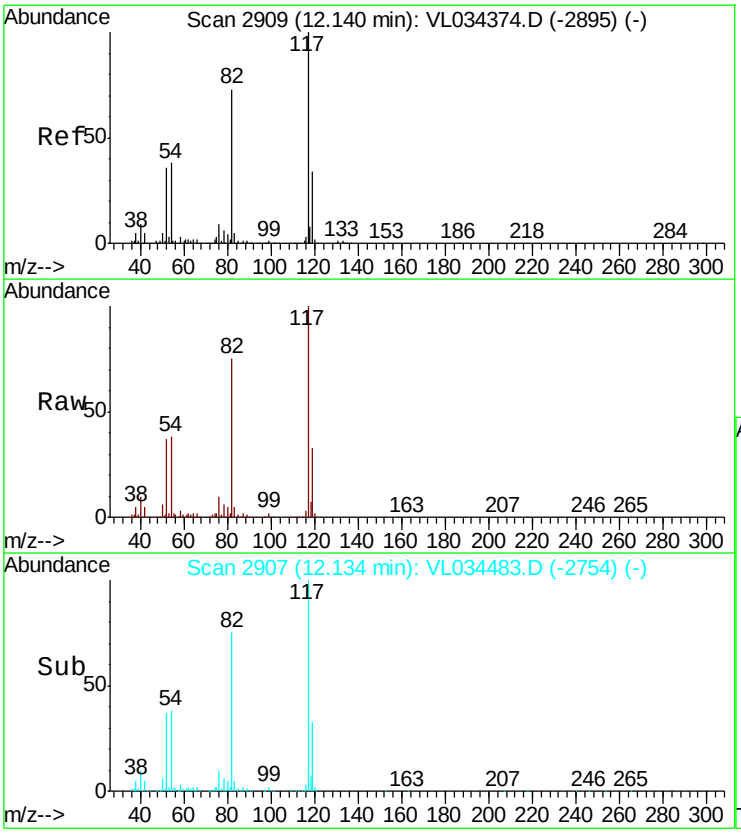
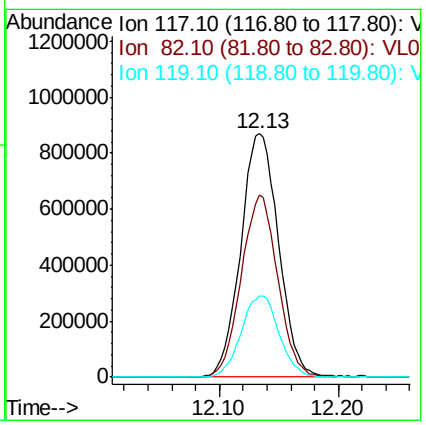
12/11/2019 2:13:09 PM

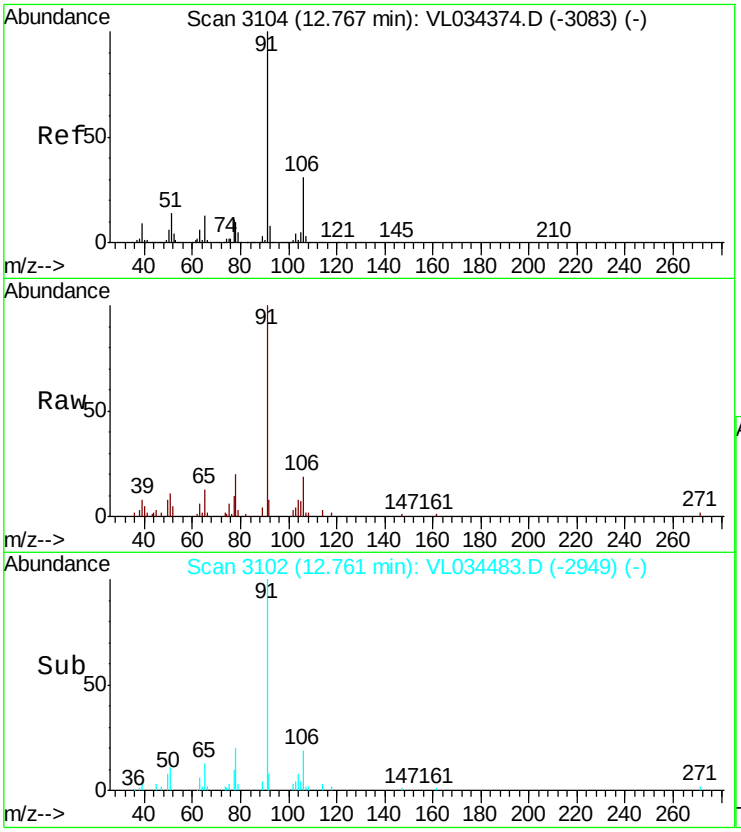



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion:117 Resp: 1913040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 72.1 | 57.5 | 86.3 |
| 119 | 33.8 | 25.4 | 38.2 |






#58
Ethyl Benzene
Concen: 0.103 ppbv m
RT: 12.76 min Scan# 3102
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 91 Resp: 30721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 19.0 | 24.8 | 37.2# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
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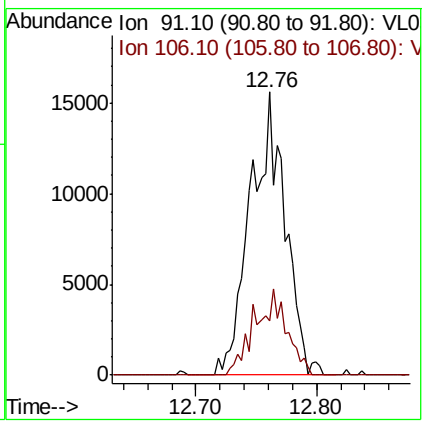
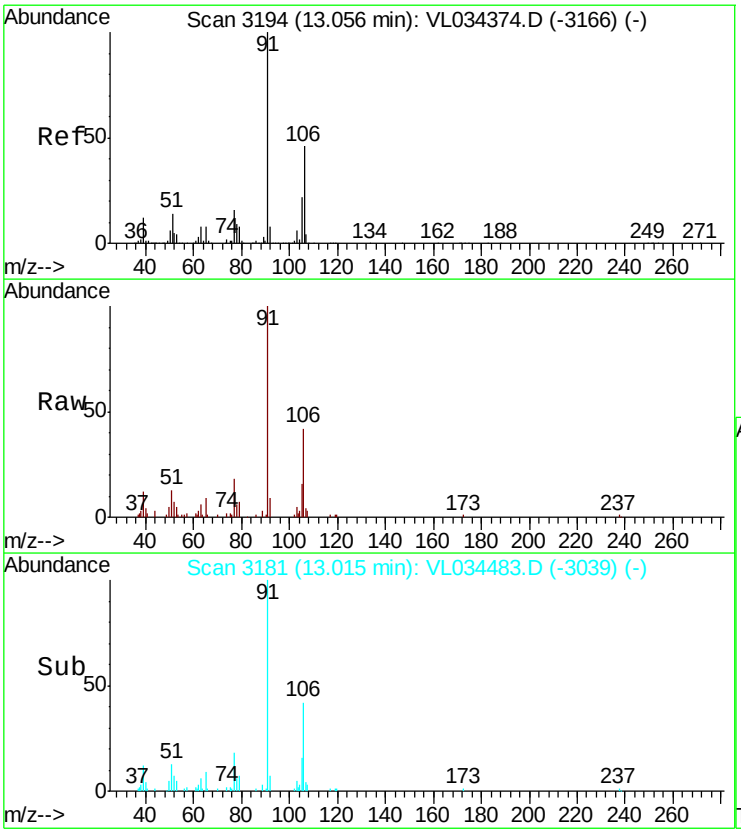
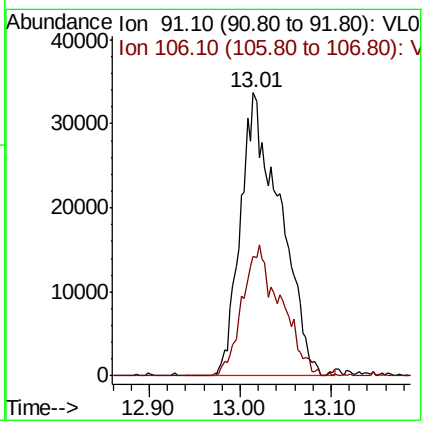


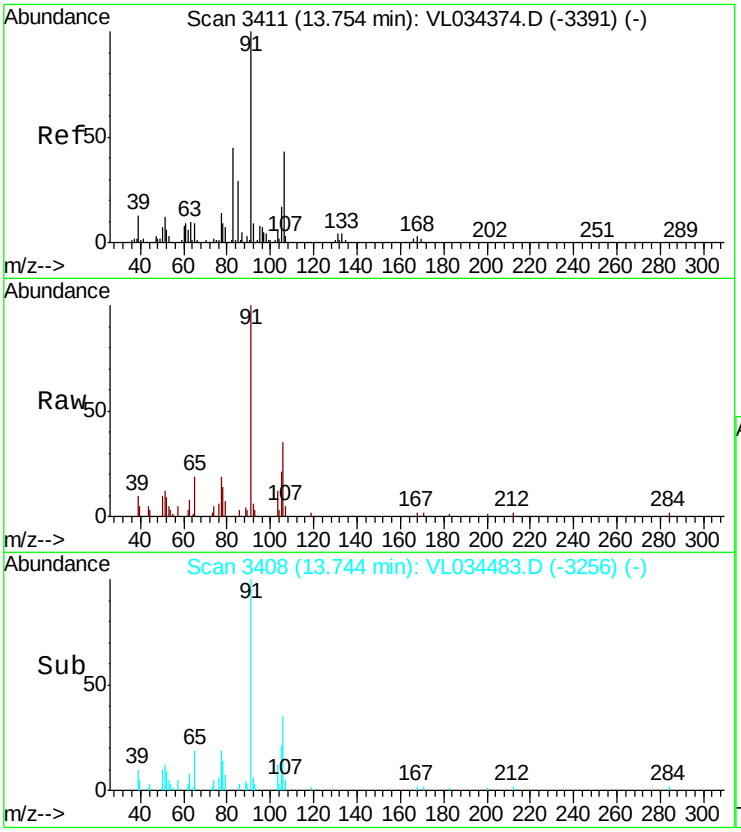




#59
m/p-Xylene
Concen: 0.398 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.04 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 91 Resp: 102030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 34.6 | 51.8# |





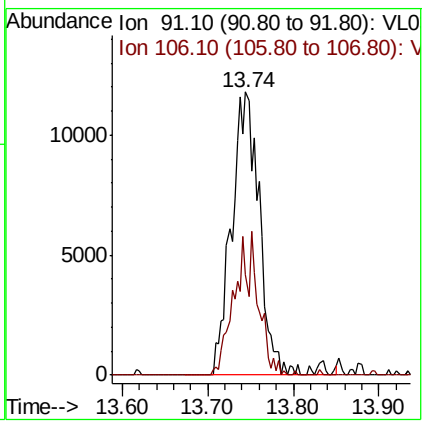

#60
o-Xylene
Concen: 0.106 ppbv m
RT: 13.74 min Scan# 3408
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

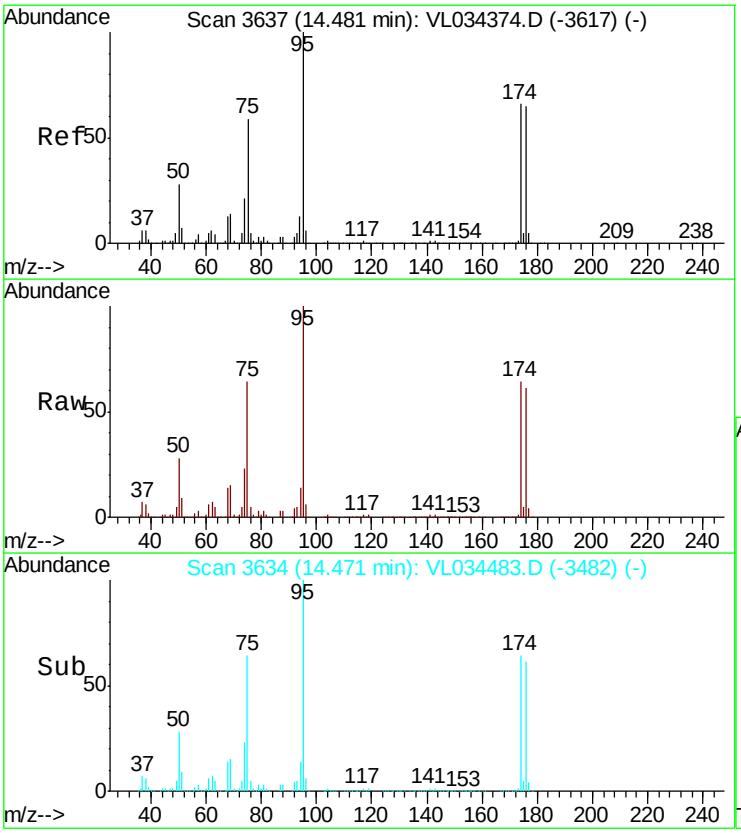
Tgt Ion: 91 Resp: 26941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.7 | 21.3 | 64.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
1A-2DL

**Manual Integrations APPROVED**
apatel
12/11/2019 2:13:09 PM




#68
1-Bromo-4-Fluorobenzene
Concen: 10.133 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 95 Resp: 1630801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.7 | 52.2 | 78.2 |
| 175 | 4.7 | 3.8 | 5.8 |