Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
Data File : VL036188.D
Acq On : 17 Dec 2020 5:04
Operator : SY/AP
Sample : L5082-02 4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** SV2

**Manual Integrations APPROVED**
MMDadoda
12/17/2020 3:57:04 PM

Quant Time: Dec 17 13:44:32 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Dec 0
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.68 | 49 | 1413023 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.19 | 114 | 2968174 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.11 | 117 | 2739095 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.45 | 95 | 2465740 | 11.34 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 113.40% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.05 | 85 | 21010m | 0.128 | ppbv | | |
| 3) Chlorodifluoromethane | 3.00 | 51 | 23870 | 0.148 | ppbv | | 94 |
| 9) Propene | 3.03 | 41 | 39397m | 0.488 | ppbv | | |
| 10) Heptane | 8.14 | 43 | 137924 | 0.669 | ppbv | | 95 |
| 13) Ethanol | 3.63 | 45 | 39896m | 3.583 | ppbv | | |
| 15) Acetone | 3.87 | 43 | 437036 | 2.573 | ppbv | | 92 |
| 17) tert-Butyl alcohol | 4.33 | 59 | 26585m | 0.162 | ppbv | | |
| 19) Isopropyl Alcohol | 4.01 | 45 | 27547m | 0.265 | ppbv | | |
| 20) Methylene Chloride | 4.36 | 84 | 22167m | 0.319 | ppbv | | |
| 26) Hexane | 5.70 | 57 | 1029383 | 6.742 | ppbv | # | 37 |
| 29) Chloroform | 5.77 | 83 | 115244 | 0.575 | ppbv | | 98 |
| 34) 2-Butanone | 5.27 | 43 | 60305 | 0.306 | ppbv | # | 87 |
| 36) Benzene | 6.91 | 78 | 27156m | 0.108 | ppbv | | |
| 52) Tetrachloroethene | 11.25 | 164 | 37811m | 0.415 | ppbv | | |
| 53) Toluene | 9.83 | 91 | 194594 | 0.689 | ppbv | | 98 |
| 57) Chlorobenzene | 12.21 | 112 | 326412m | 1.697 | ppbv | | |
| 58) Ethyl Benzene | 12.73 | 91 | 132315m | 0.352 | ppbv | | |
| 59) m/p-Xylene | 13.00 | 91 | 229046m | 0.724 | ppbv | | |
| 60) o-Xylene | 13.72 | 91 | 95172m | 0.319 | ppbv | | |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83 | 165129m | 0.823 | ppbv | | |
| 70) n-Butylbenzene | 18.60 | 91 | 72681m | 0.183 | ppbv | | |
| 73) 1,3,5-Trimethylbenzene | 16.02 | 105 | 34745m | 0.113 | ppbv | | |
| 74) 1,2,4-Trimethylbenzene | 16.80 | 105 | 84864m | 0.274 | ppbv | | |

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

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
Data File : VL036188.D
Acq On : 17 Dec 2020 5:04
Operator : SY/AP
Sample : L5082-02 4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 13:44:32 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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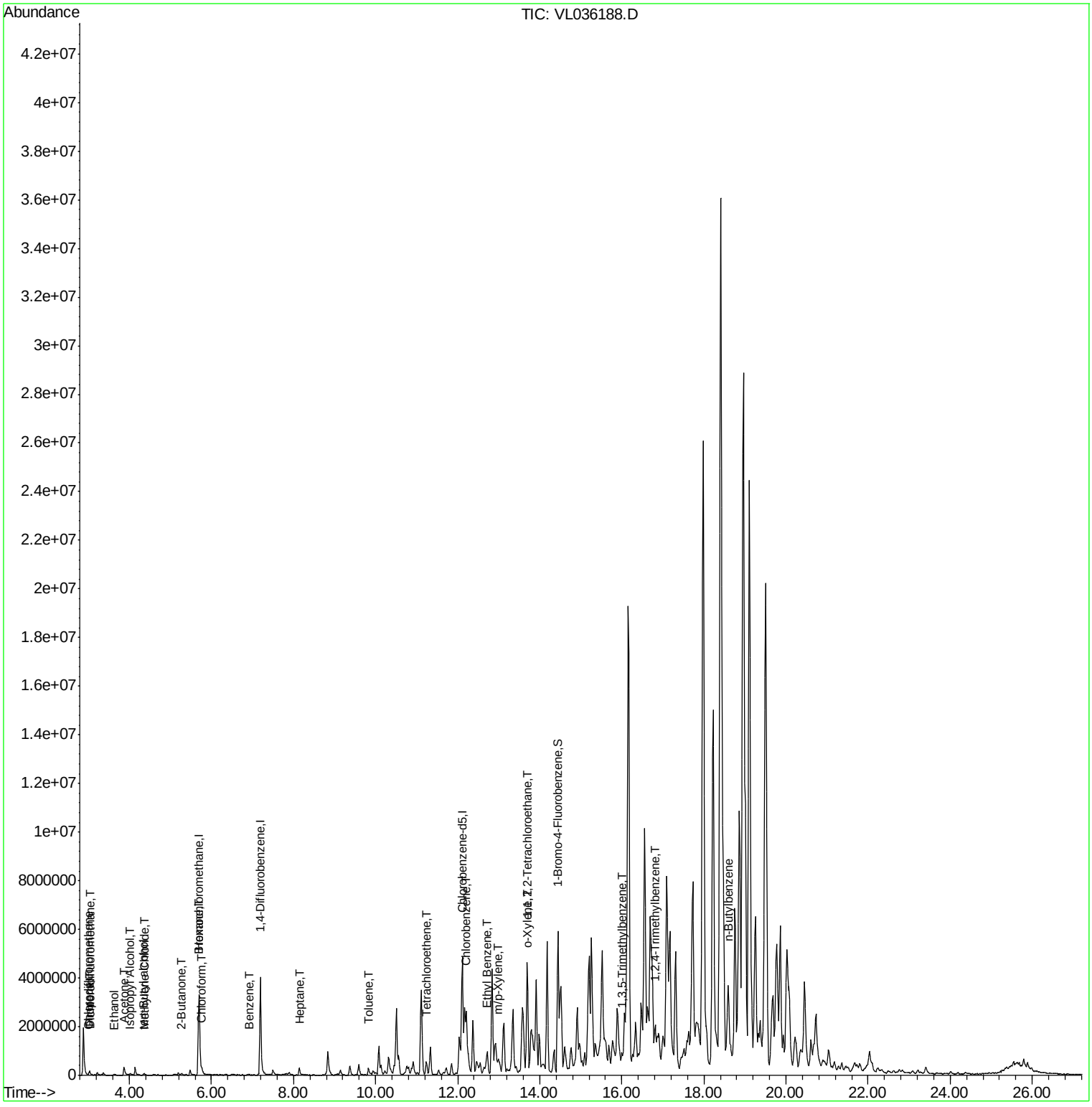
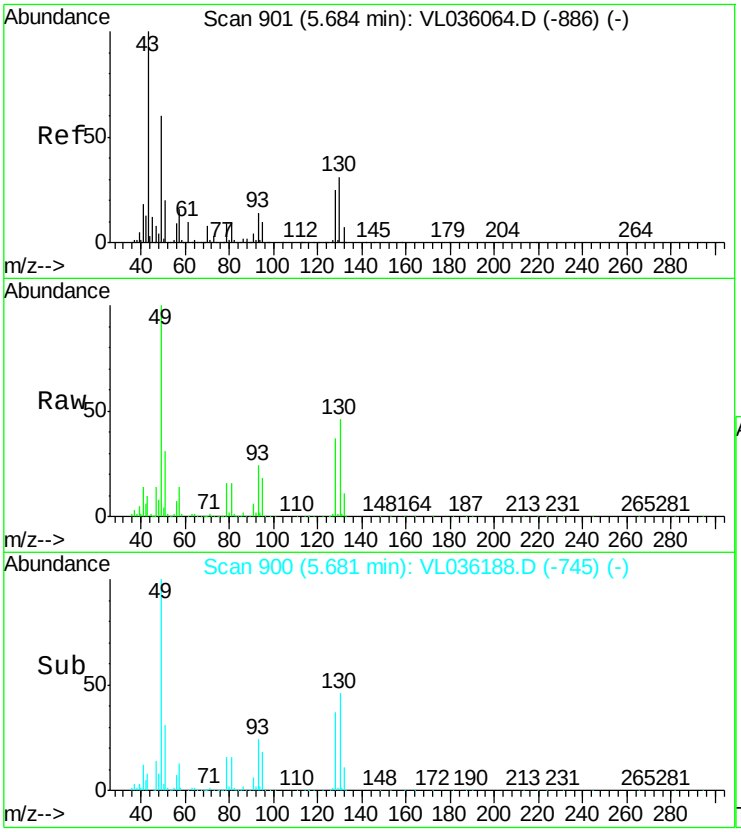
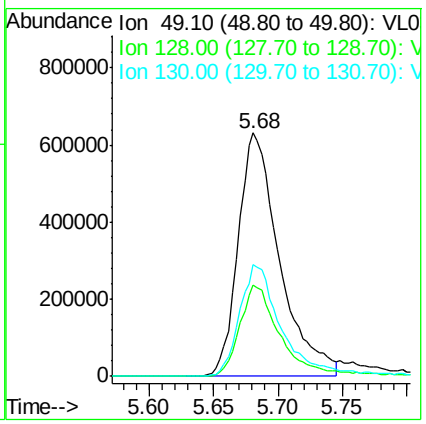





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 49 Resp: 1413023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 38.1 | 21.1 | 63.1 |
| 130 | 47.6 | 27.1 | 81.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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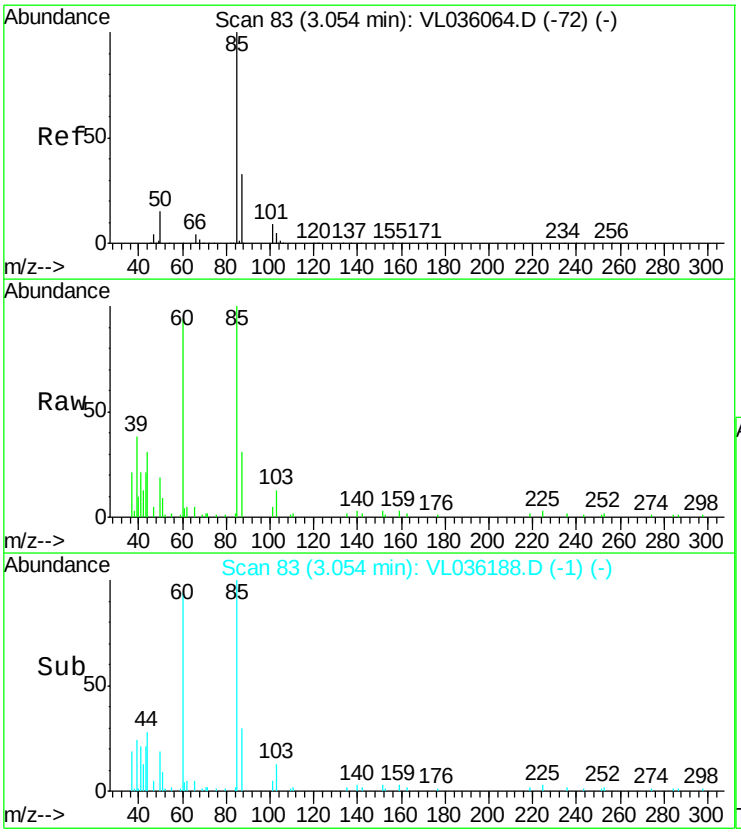
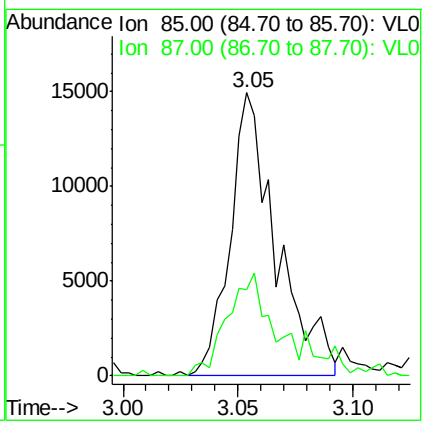
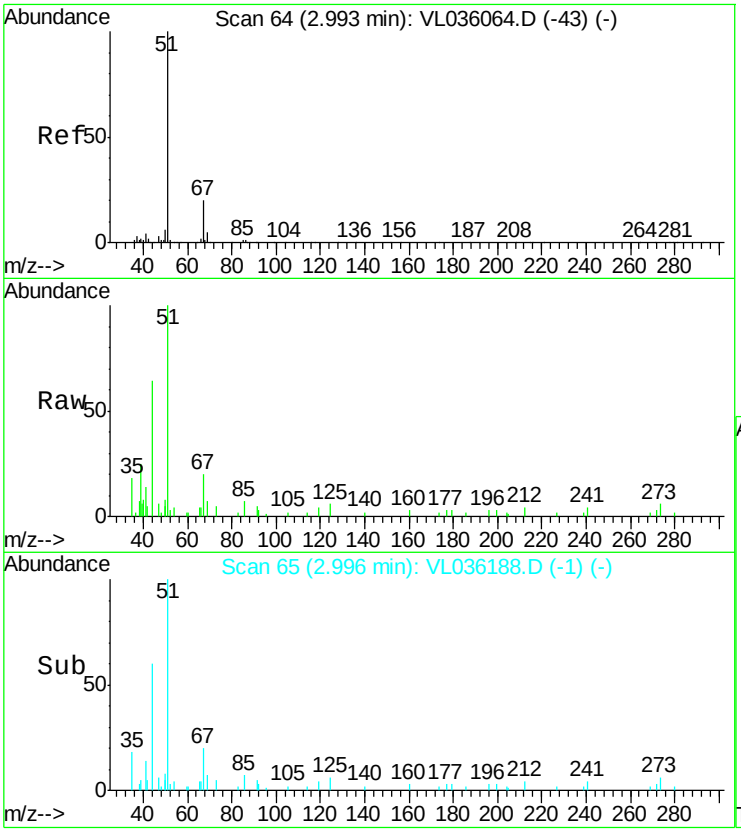



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv m
RT: 3.05 min Scan# 83
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 85 Resp: 21010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.7 | 26.5 | 39.7 |






#3
Chlorodifluoromethane
Concen: 0.148 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 51 Resp: 23870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 15.4 | 14.3 | 21.5 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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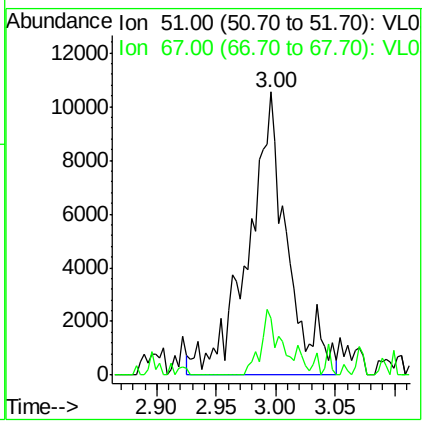
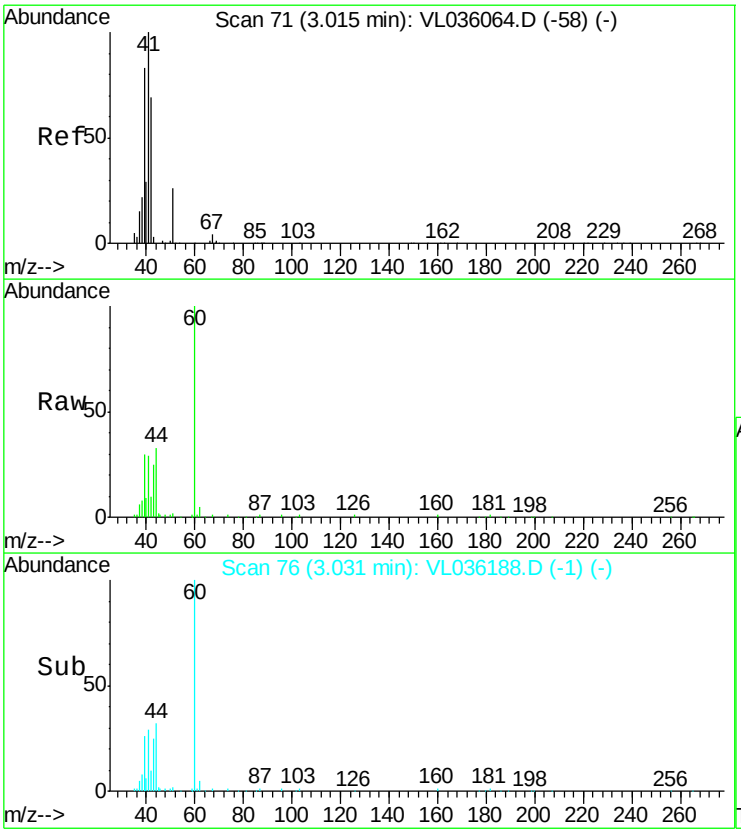
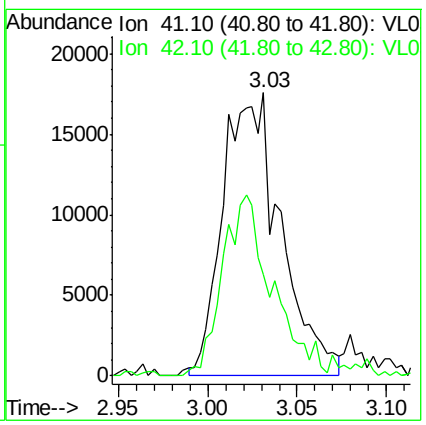


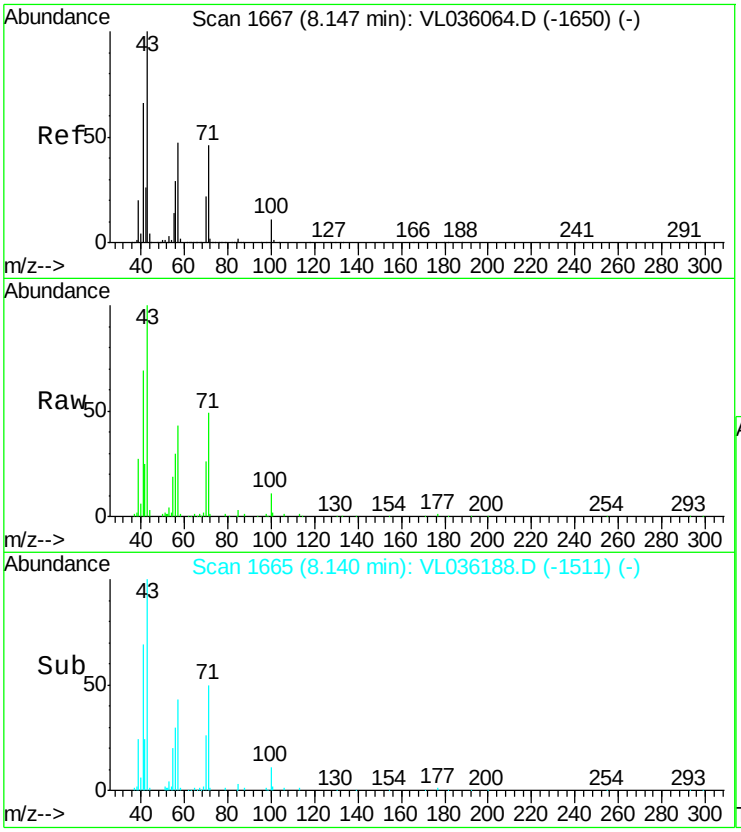




#9
Propene
Concen: 0.488 ppbv m
RT: 3.03 min Scan# 76
Delta R.T. 0.02 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 41 Resp: 39397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 0.0 | 57.0 | 85.6# |

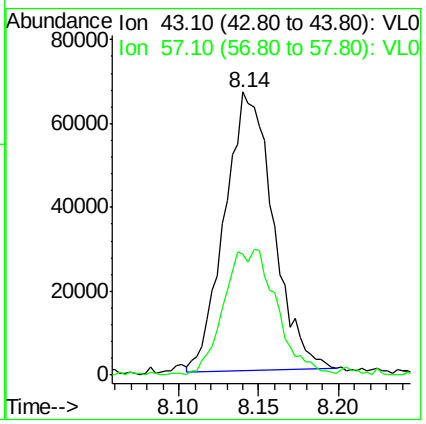





#10
Heptane
Concen: 0.669 ppbv
RT: 8.14 min Scan# 1665
Delta R.T. -0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 43 Resp: 137924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 51.0 | 37.9 | 56.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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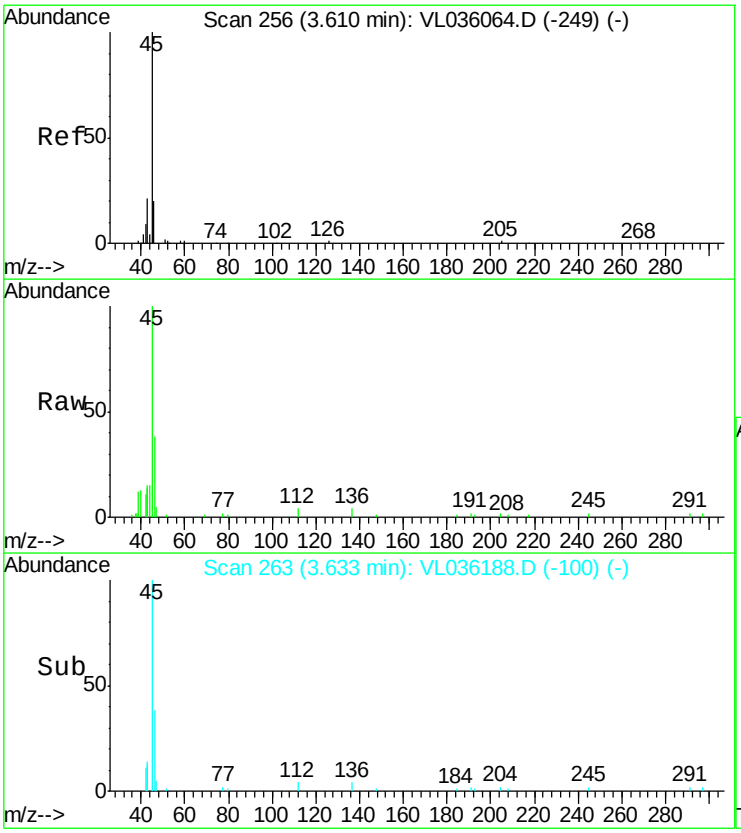
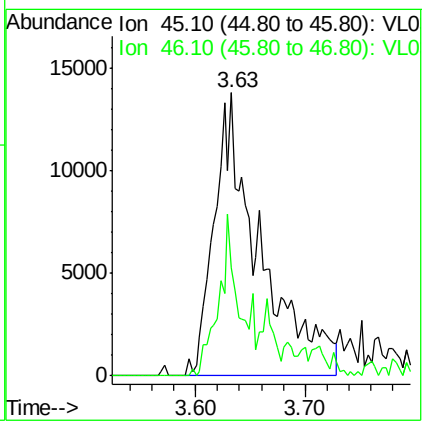
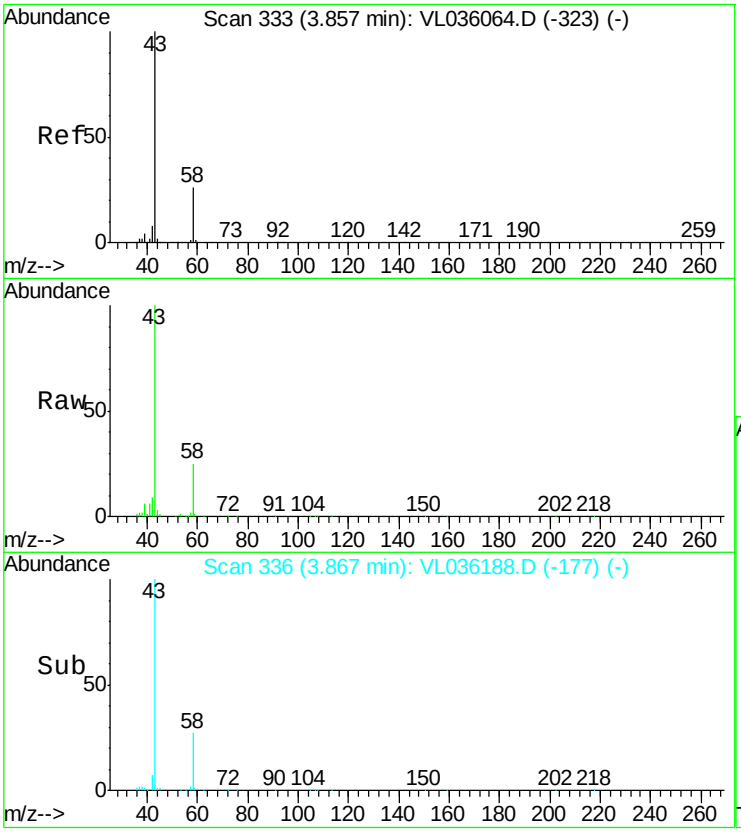



#13
Ethanol
Concen: 3.583 ppbv m
RT: 3.63 min Scan# 263
Delta R.T. 0.02 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 45 Resp: 39896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 19.0 | 75.8# |






#15
Acetone
Concen: 2.573 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 43 Resp: 437036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.9 | 20.9 | 31.3 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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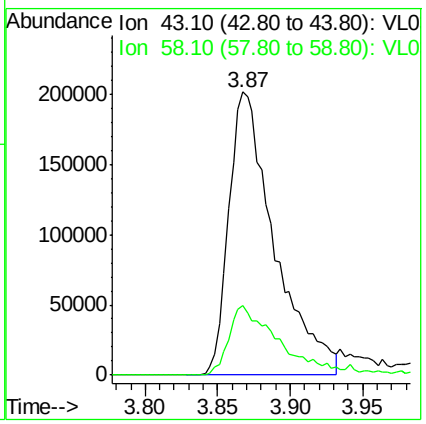
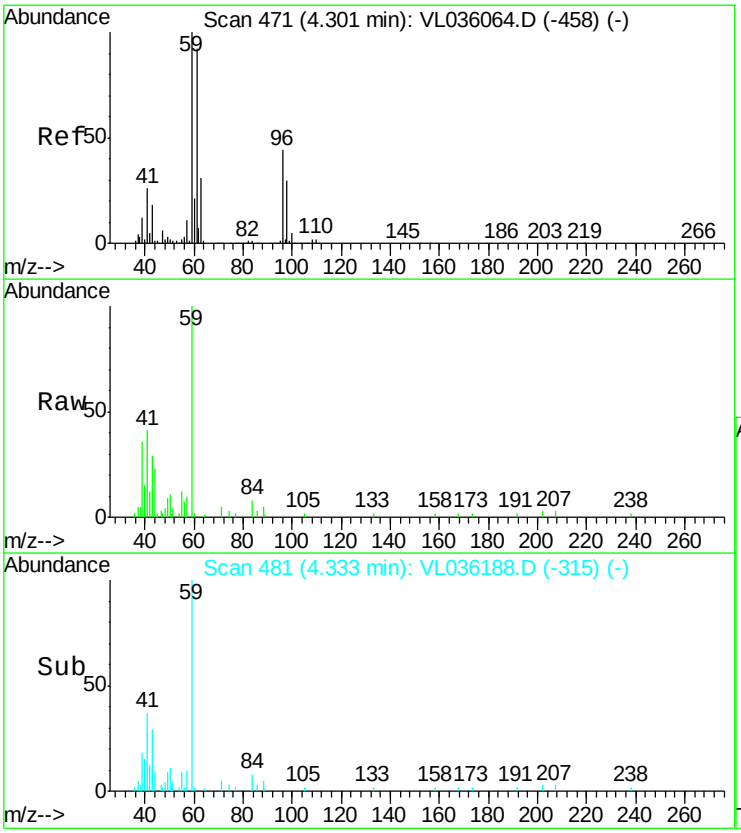
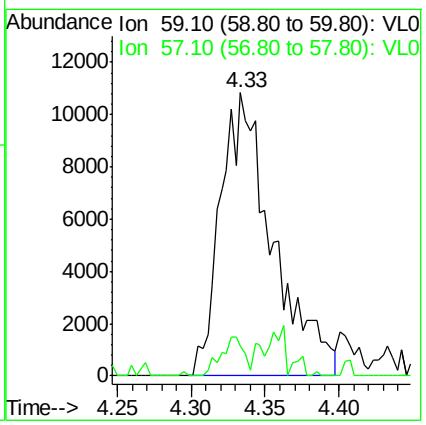


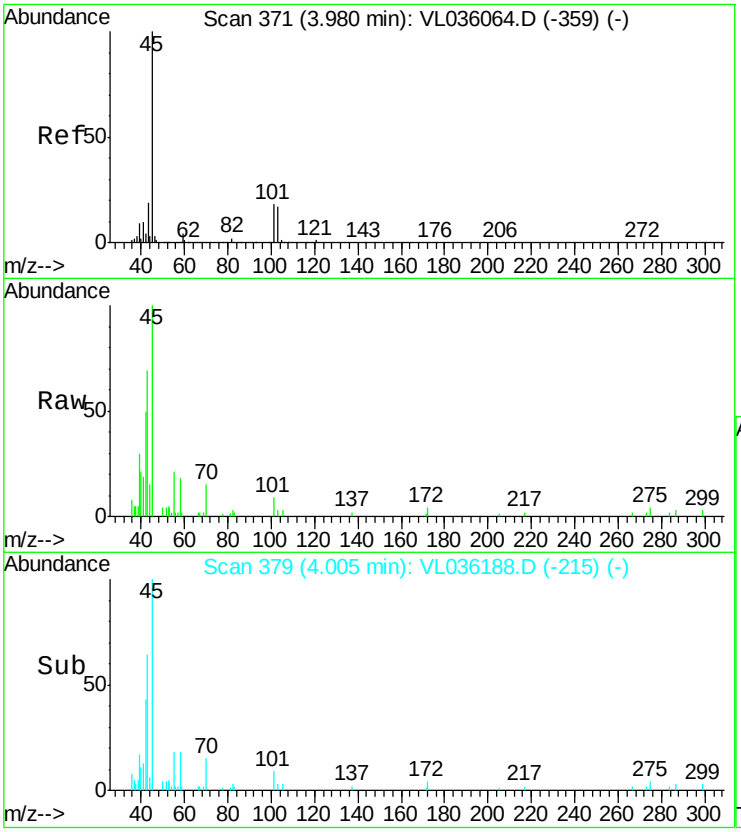




#17
tert-Butyl alcohol
Concen: 0.162 ppbv m
RT: 4.33 min Scan# 481
Delta R.T. 0.03 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 59 Resp: 26585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.7 | 13.1# |

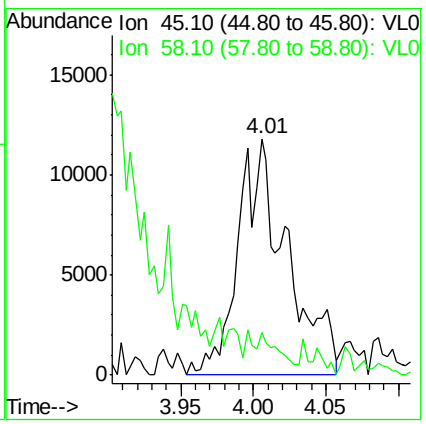





#19
Isopropyl Alcohol
Concen: 0.265 ppbv m
RT: 4.01 min Scan# 379
Delta R.T. 0.03 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 45 Resp: 27547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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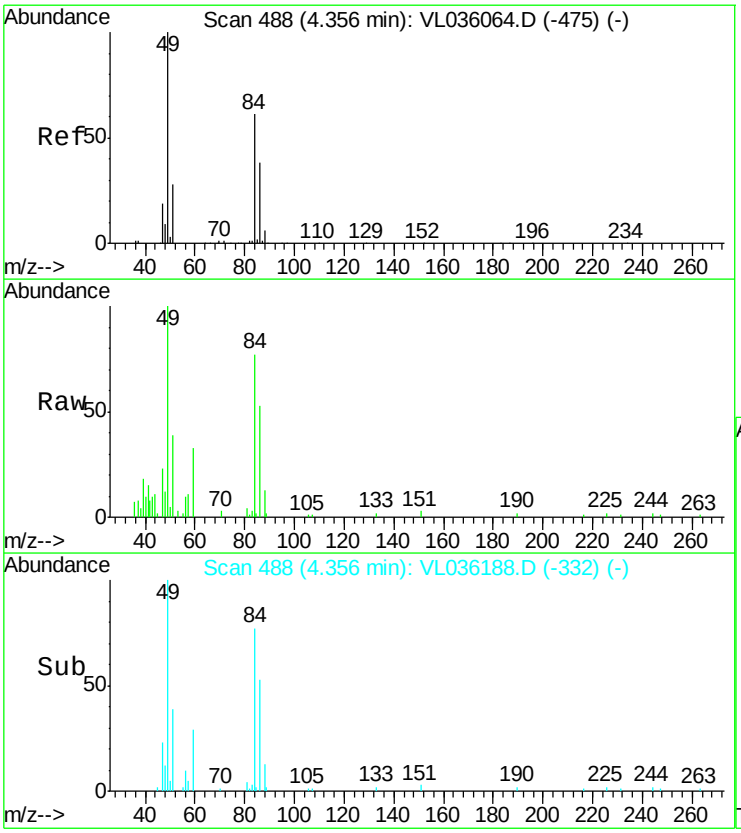
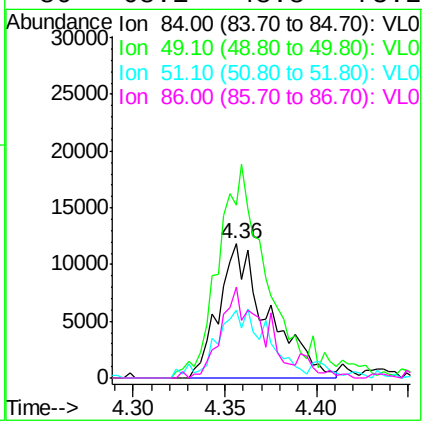
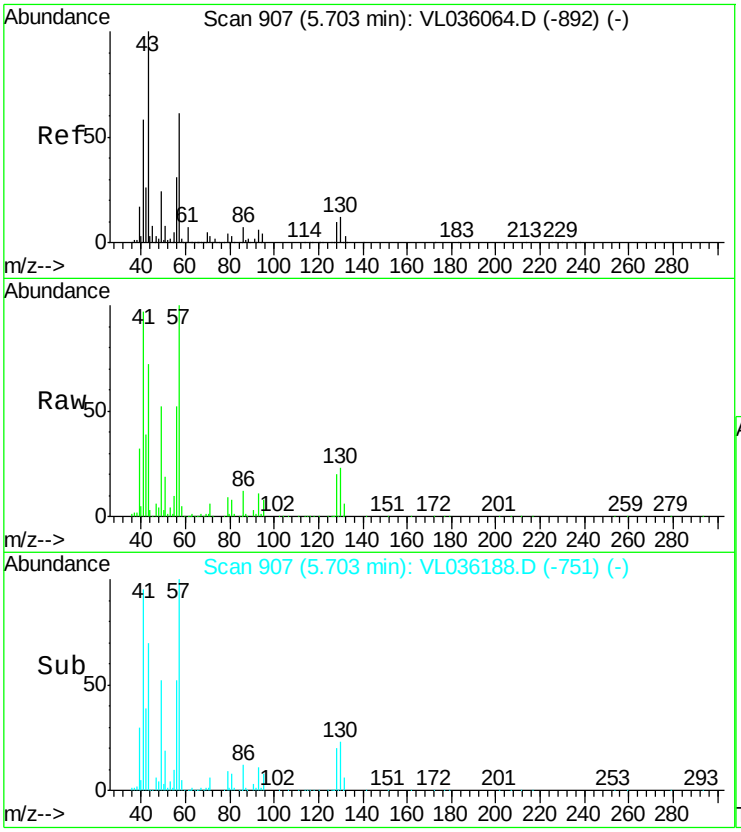



#20
Methylene Chloride
Concen: 0.319 ppbv m
RT: 4.36 min Scan# 488
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 84 Resp: 22167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 129.3 | 133.0 | 199.4# |
| 51 | 50.2 | 38.9 | 58.3 |
| 86 | 68.1 | 48.8 | 73.2 |

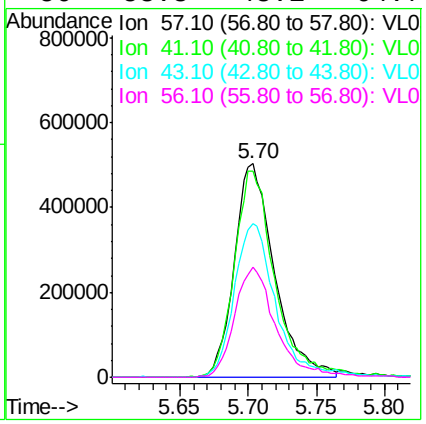





#26
Hexane
Concen: 6.742 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 57 Resp: 1029383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 99.3 | 82.9 | 124.3 |
| 43 | 75.5 | 199.9 | 299.9# |
| 56 | 53.3 | 43.1 | 64.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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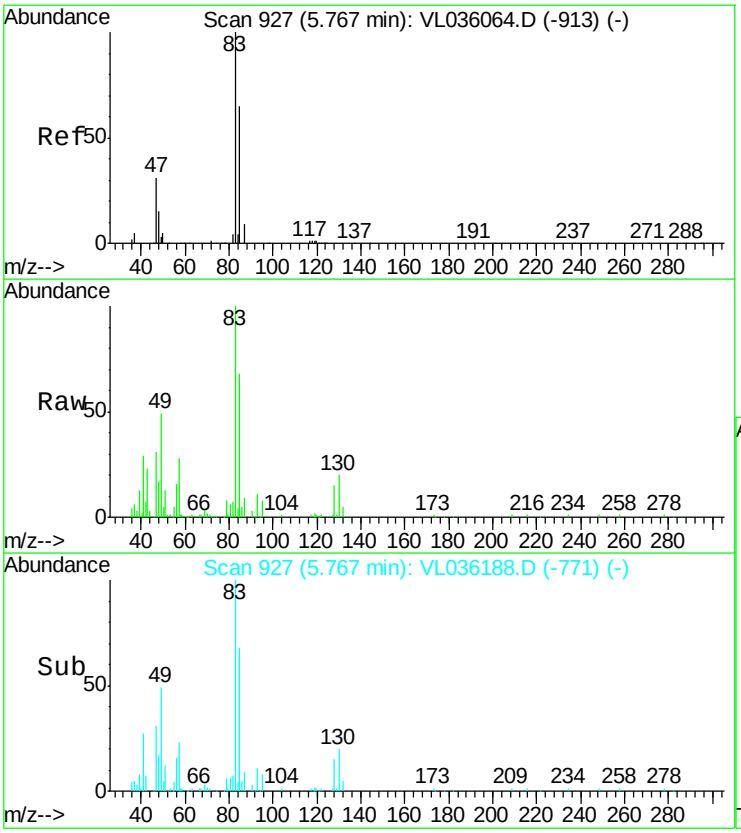
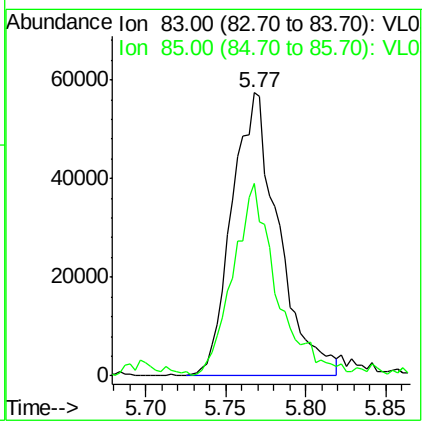
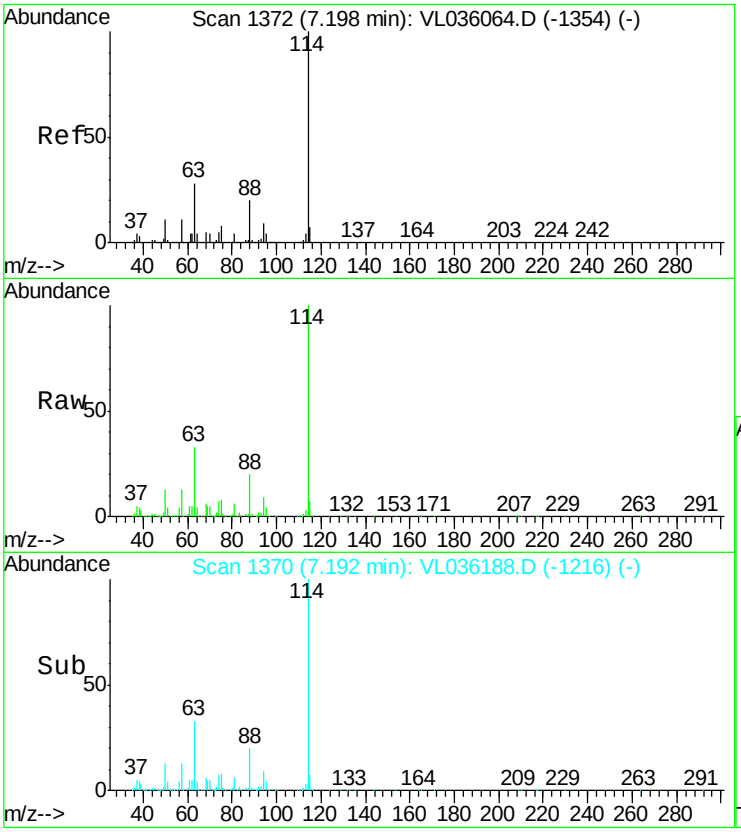



#29
Chloroform
Concen: 0.575 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 83 Resp: 115244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.3 | 51.8 | 77.6 |

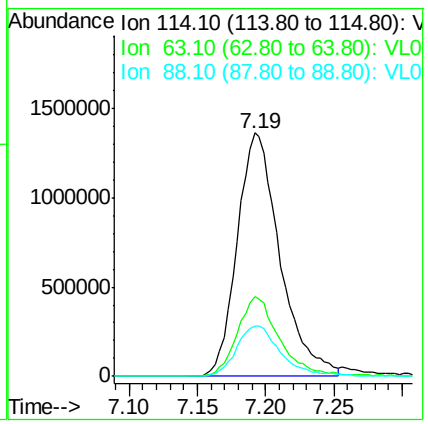





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

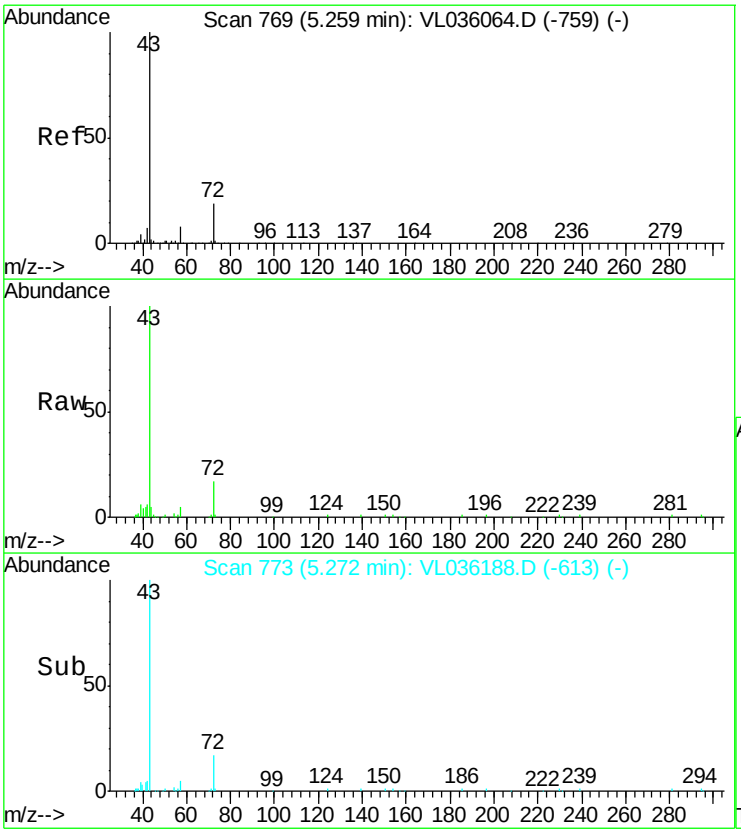
Tgt Ion:114 Resp: 2968174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 32.9 | 23.6 | 35.4 |
| 88 | 21.8 | 15.8 | 23.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

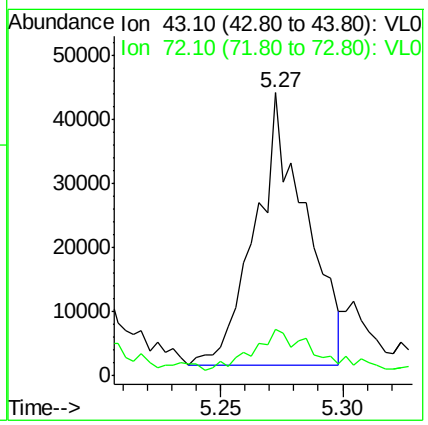
**Manual Integrations APPROVED**
MMDadoda
12/17/2020 3:57:04 PM

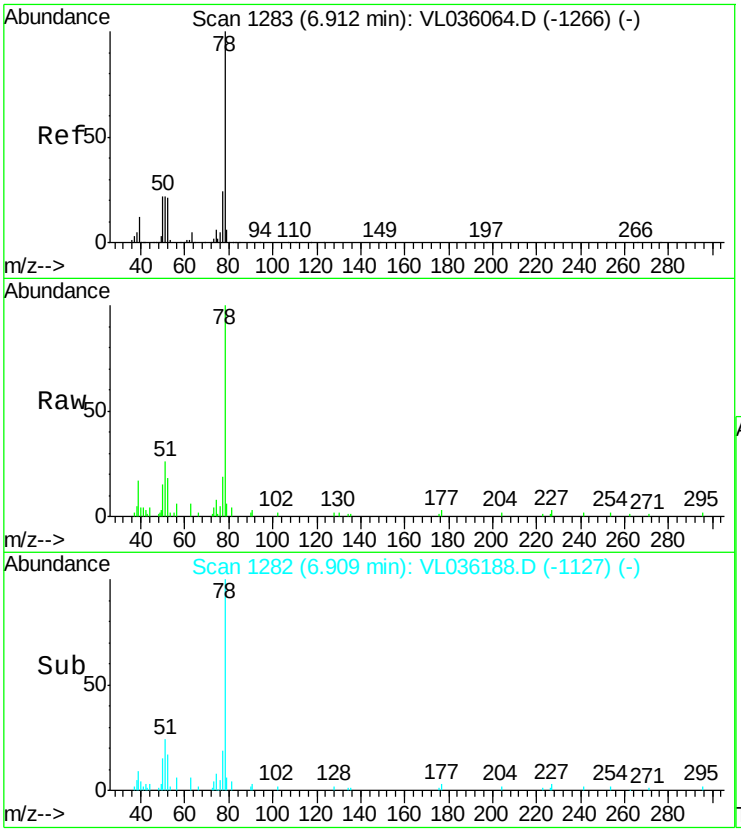



#34
2-Butanone
Concen: 0.306 ppbv
RT: 5.27 min Scan# 773
Delta R.T. 0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 43 Resp: 60305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.6 | 16.5 | 24.7# |

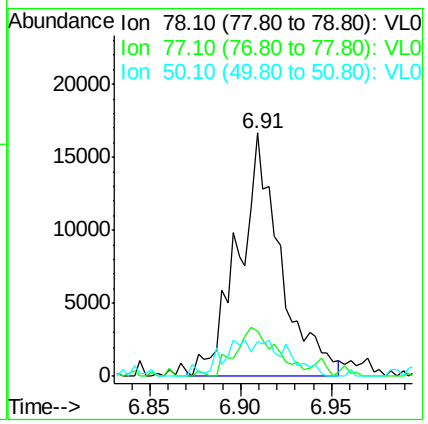





#36
Benzene
Concen: 0.108 ppbv m
RT: 6.91 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

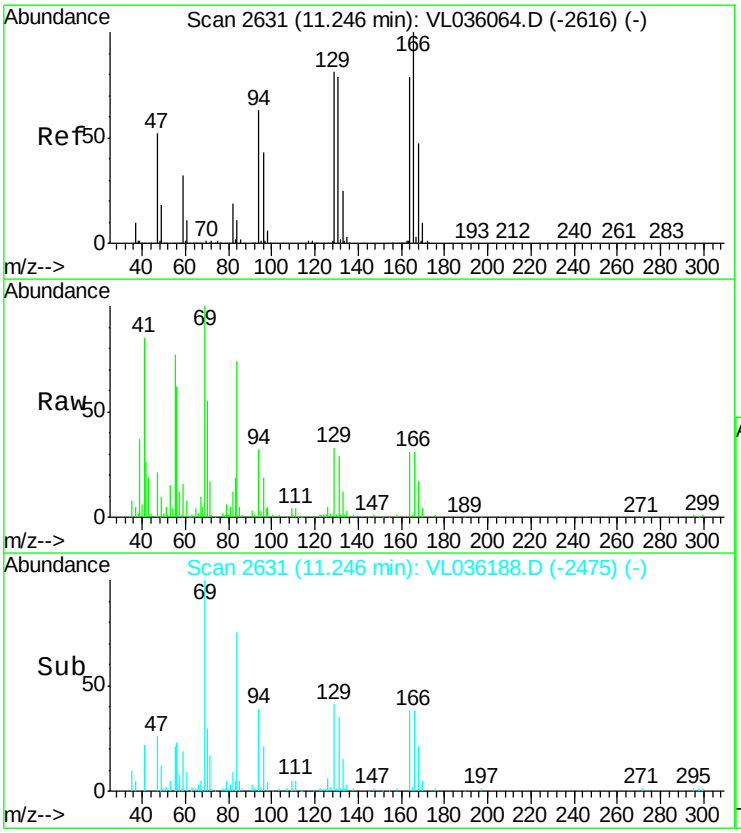
Tgt Ion: 78 Resp: 27156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.7 | 19.4 | 29.2# |
| 50 | 14.5 | 17.8 | 26.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

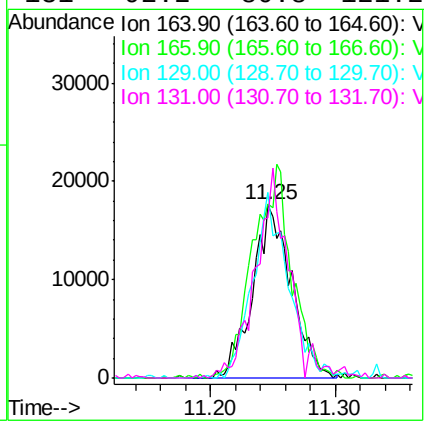
**Manual Integrations APPROVED**
MMDadoda
12/17/2020 3:57:04 PM

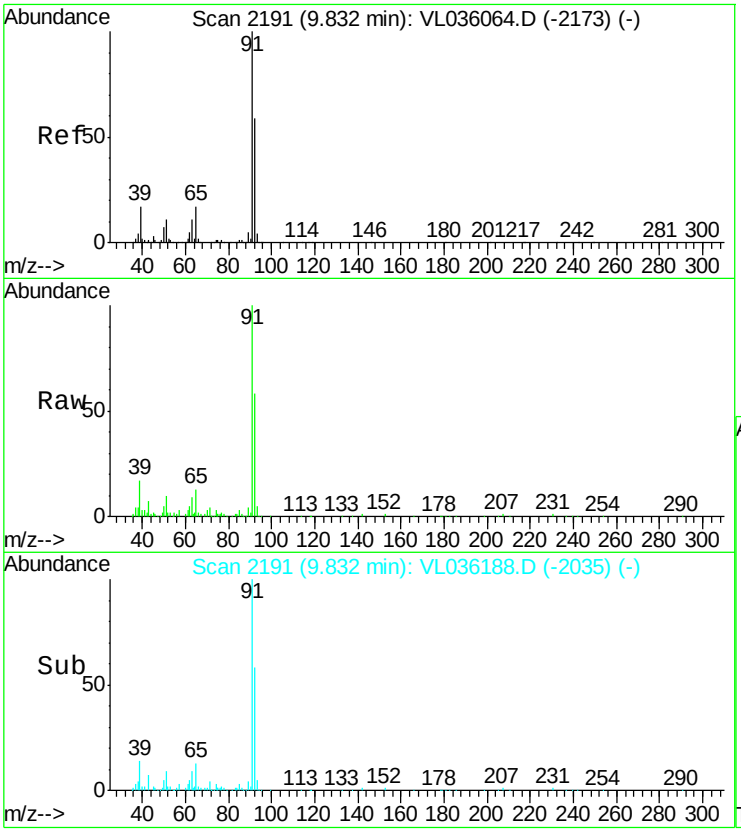



#52
Tetrachloroethene
Concen: 0.415 ppbv m
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion:164 Resp: 37811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 100.7 | 101.9 | 152.9# |
| 129 | 107.3 | 82.1 | 123.1 |
| 131 | 92.2 | 80.8 | 121.2 |






#53
Toluene
Concen: 0.689 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 91 Resp: 194594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 61.8 | 48.2 | 72.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

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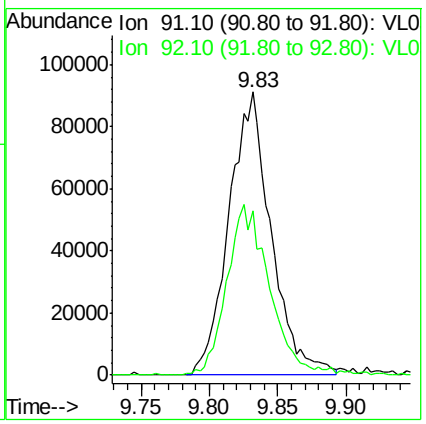
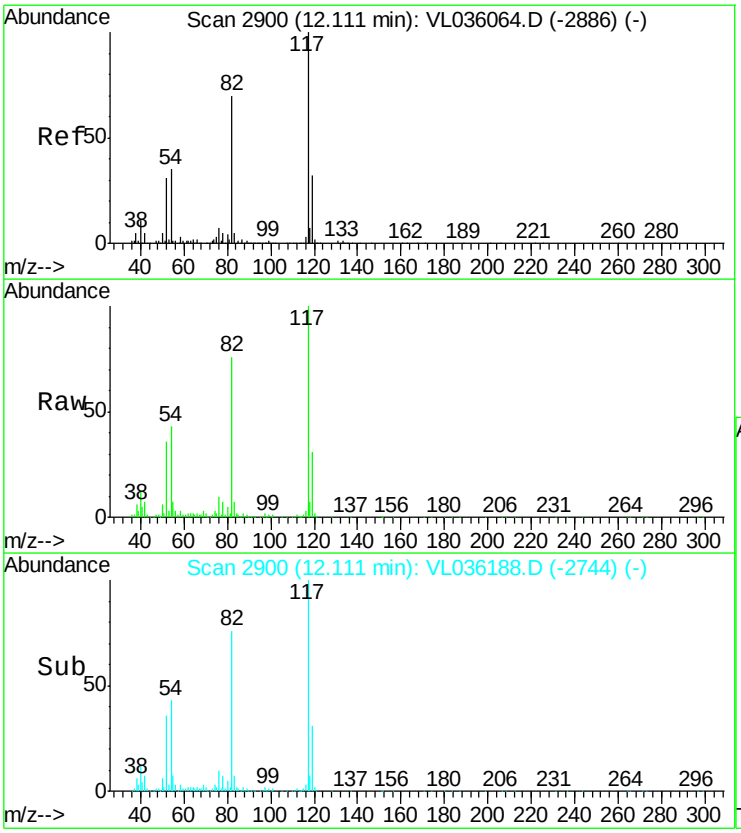
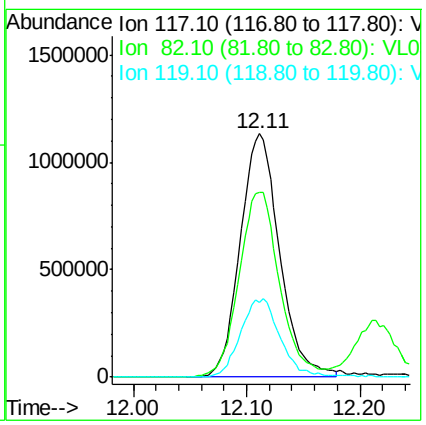


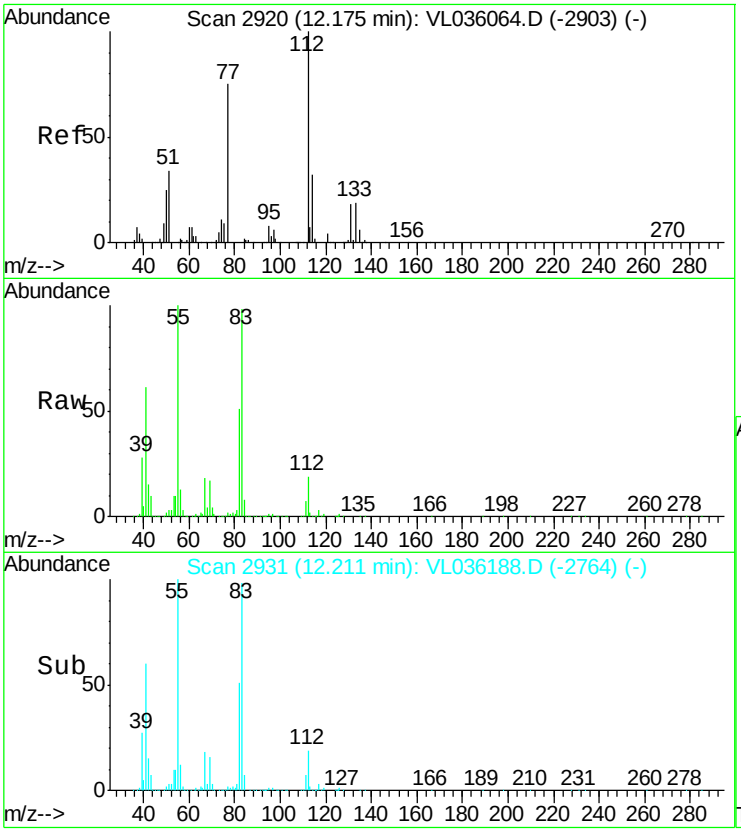




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion:117 Resp: 2739095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 78.1 | 0.0 | 0.0# |
| 119 | 32.9 | 0.0 | 0.0# |

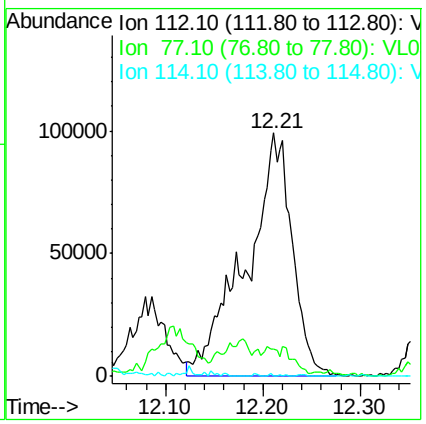





#57
Chlorobenzene
Concen: 1.697 ppbv m
RT: 12.21 min Scan# 2931
Delta R.T. 0.04 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion:112 Resp: 326412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 11.2 | 60.5 | 90.7# |
| 114 | 0.2 | 29.2 | 35.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

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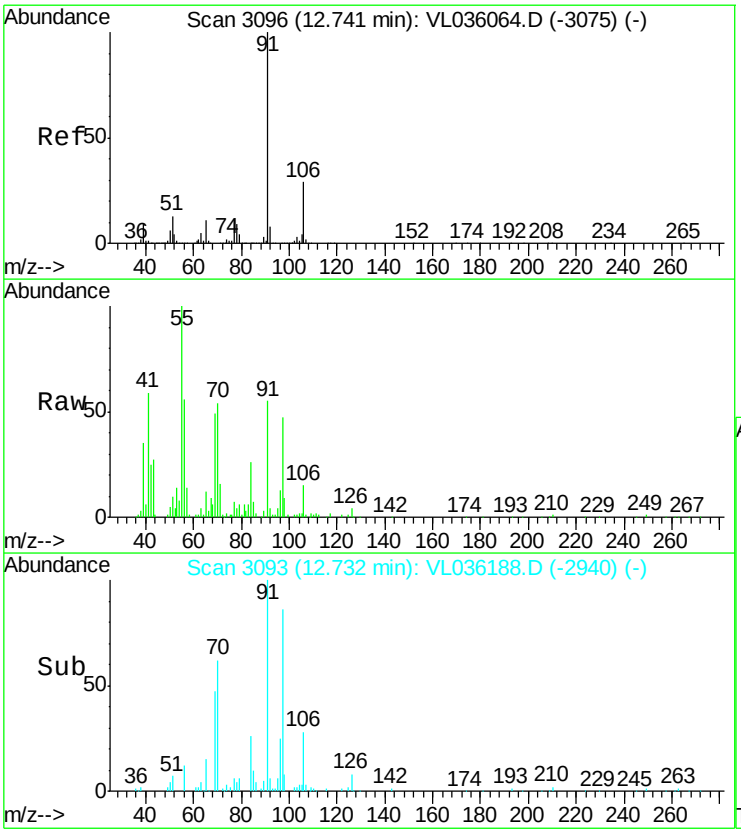
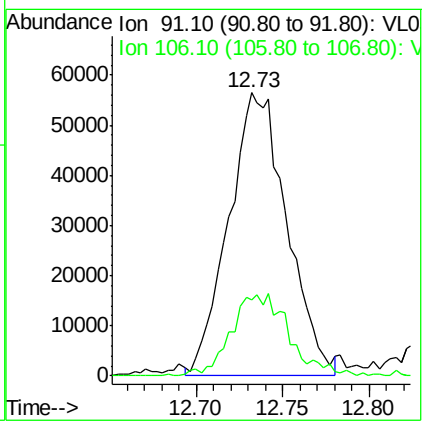
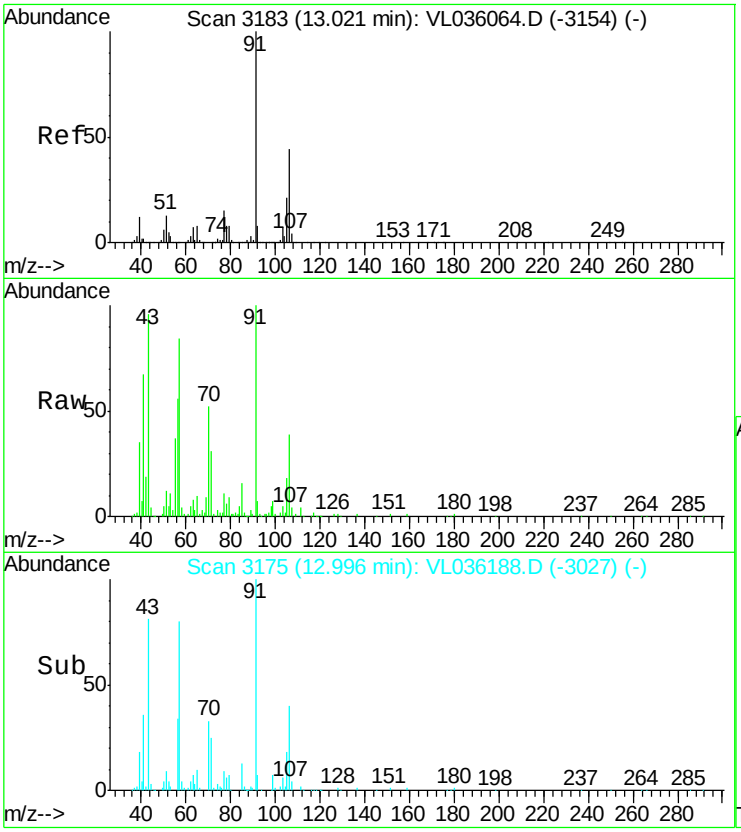



#58
Ethyl Benzene
Concen: 0.352 ppbv m
RT: 12.73 min Scan# 3093
Delta R.T. -0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 91 Resp: 132315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.1 | 23.0 | 34.4 |

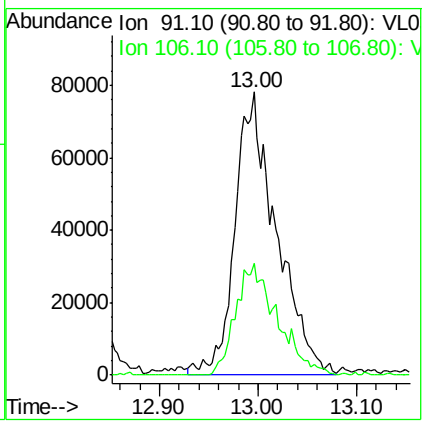





#59
m/p-Xylene
Concen: 0.724 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 91 Resp: 229046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 33.6 | 50.4# |




**Instrument :**
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SV2

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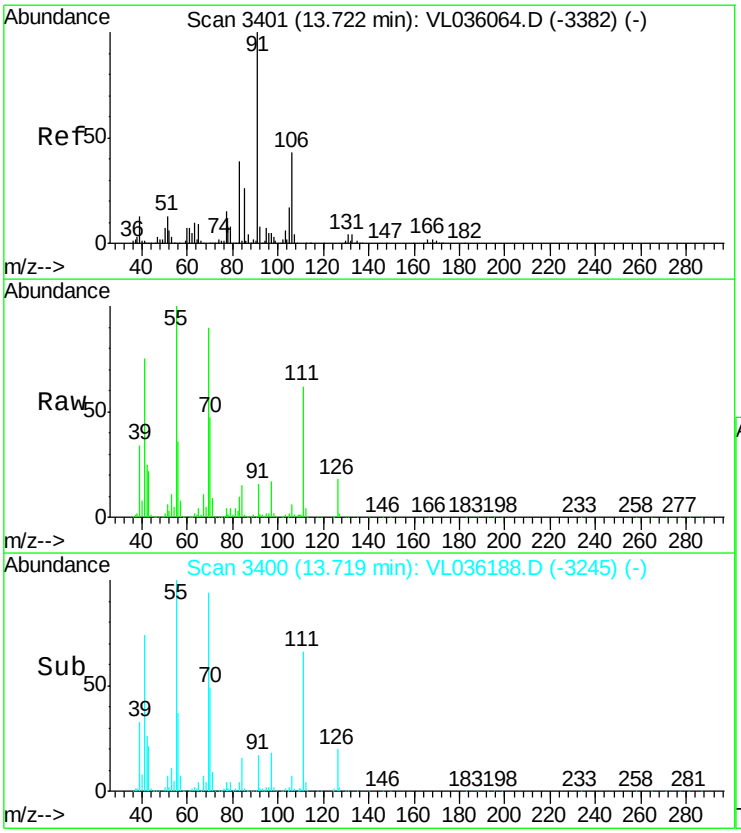
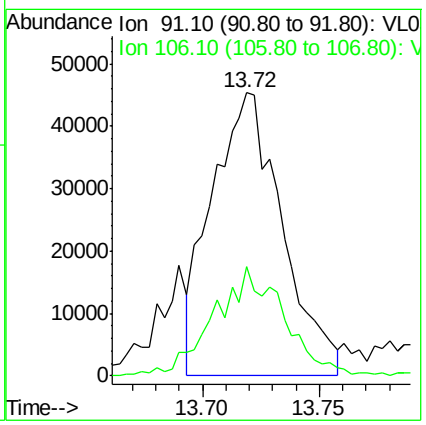
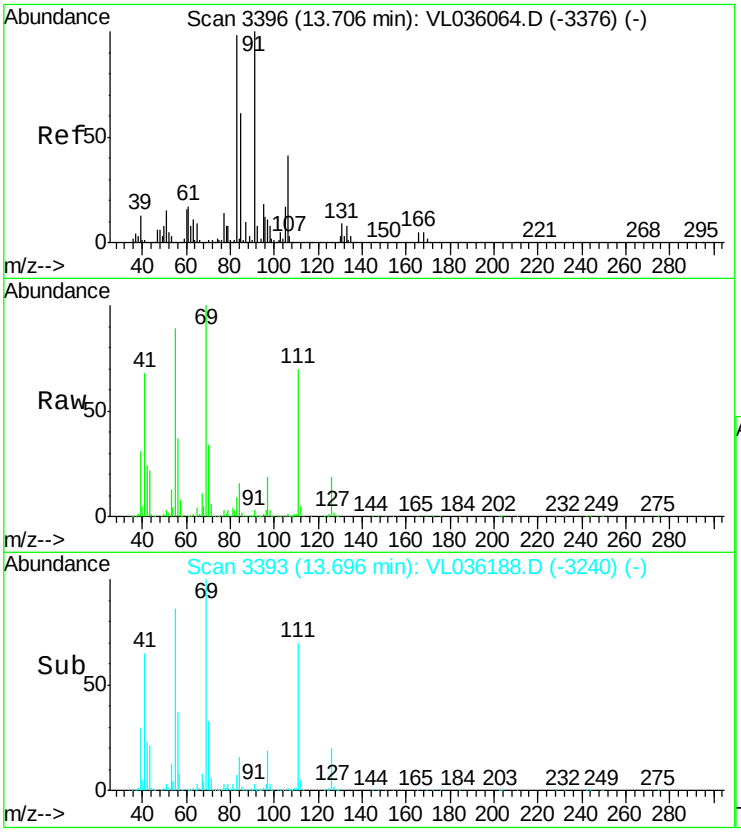



#60
o-Xylene
Concen: 0.319 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 91 Resp: 95172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 38.1 | 21.6 | 64.6 |

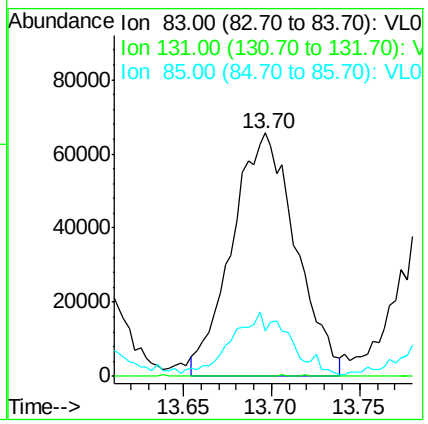





#63
1,1,2,2-Tetrachloroethane
Concen: 0.823 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 83 Resp: 165129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 0.1 | 4.6 | 13.8# |
| 85 | 23.1 | 32.5 | 97.5# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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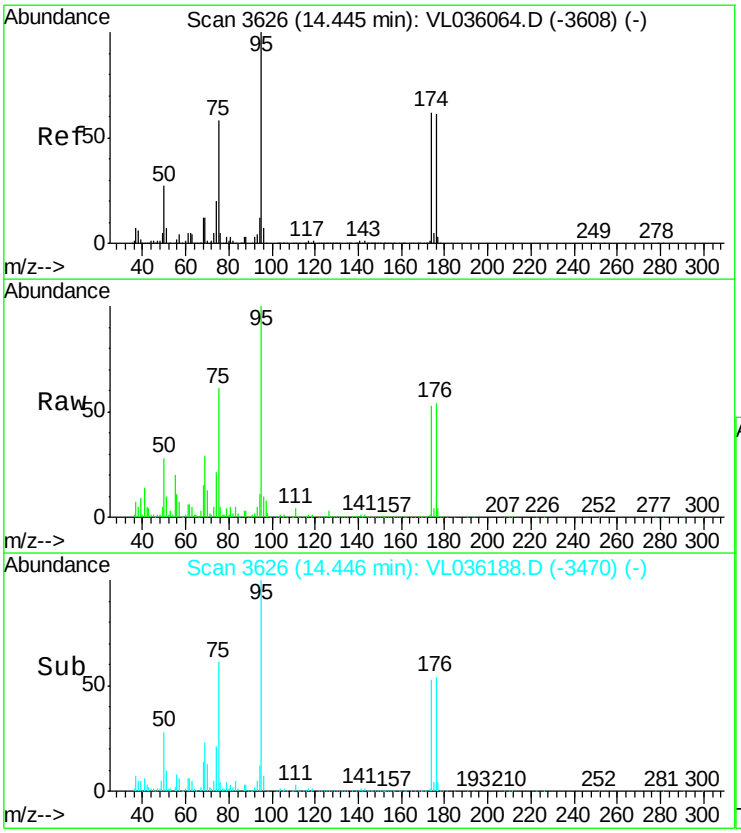
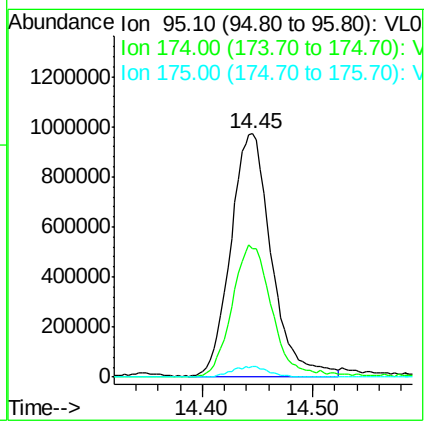
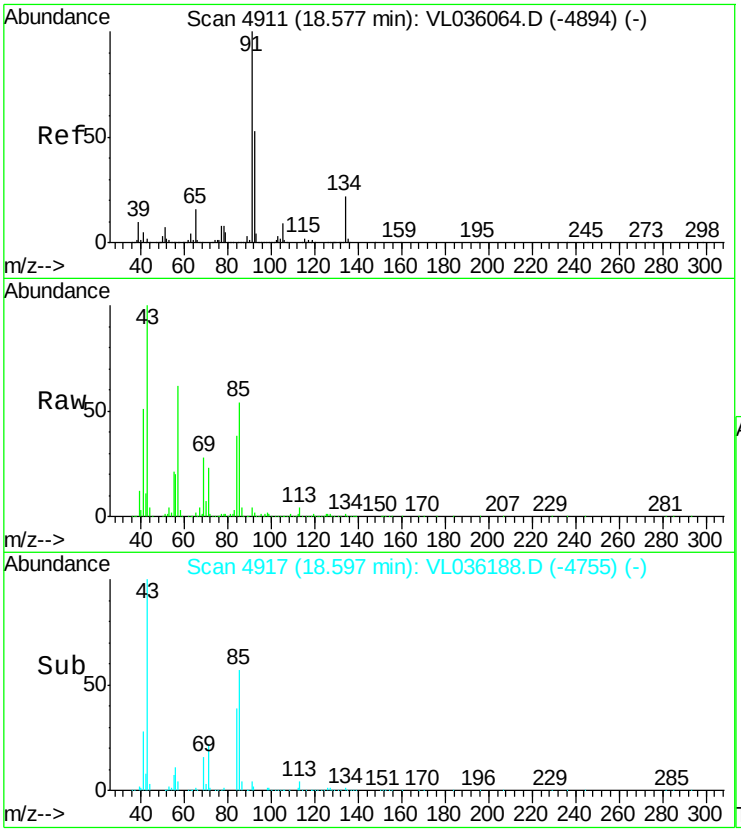



#68
1-Bromo-4-Fluorobenzene
Concen: 11.337 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. 0.00 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 95 Resp: 2465740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 54.4 | 50.7 | 76.1 |
| 175 | 4.2 | 4.0 | 6.0 |

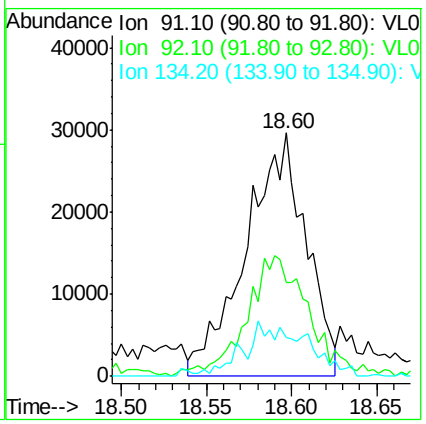





#70
n-Butylbenzene
Concen: 0.183 ppbv m
RT: 18.60 min Scan# 4917
Delta R.T. 0.02 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion: 91 Resp: 72681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 0.0 | 43.3 | 64.9# |
| 134 | 23.6 | 17.1 | 25.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

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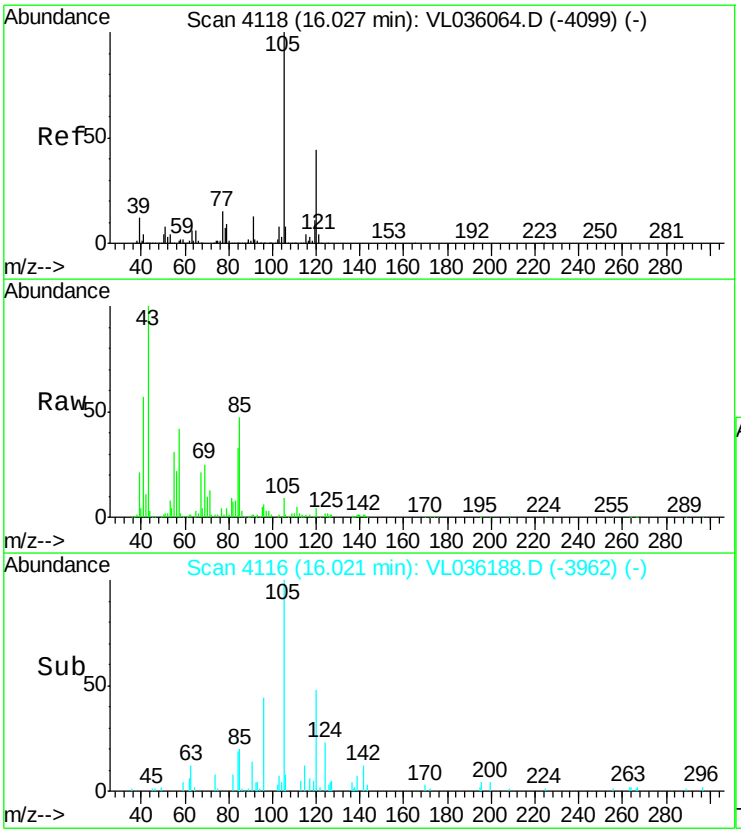
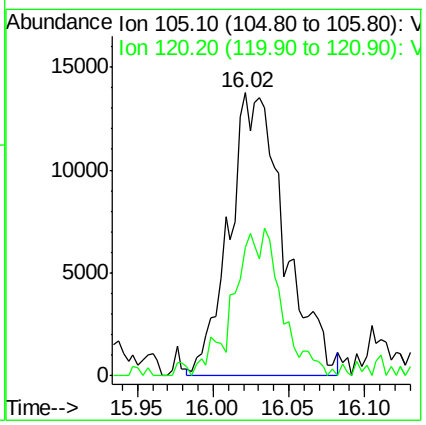
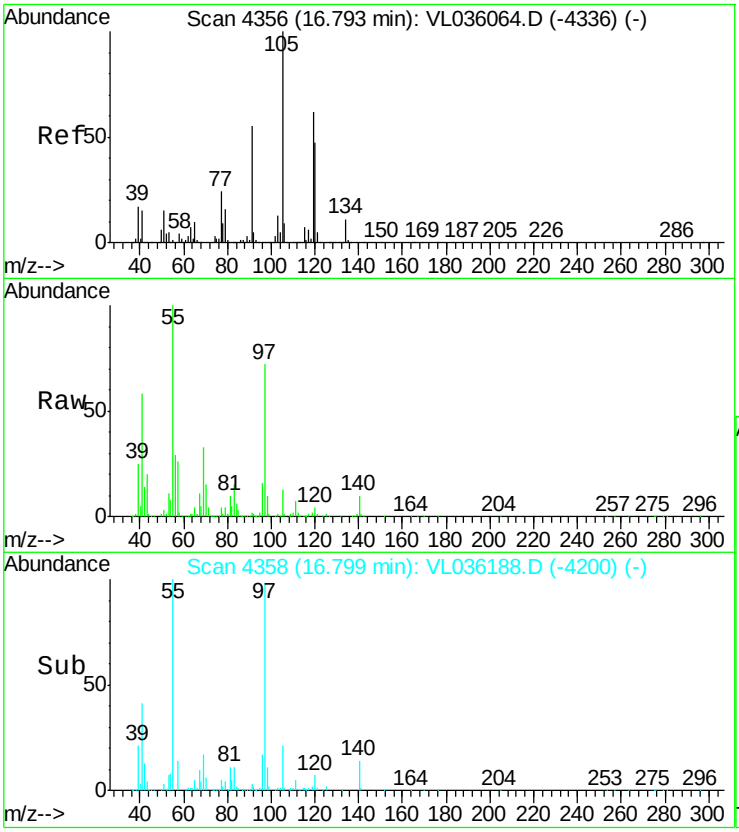



#73
1,3,5-Trimethylbenzene
Concen: 0.113 ppbv m
RT: 16.02 min Scan# 4116
Delta R.T. -0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion:105 Resp: 34745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 35.4 | 53.2 |

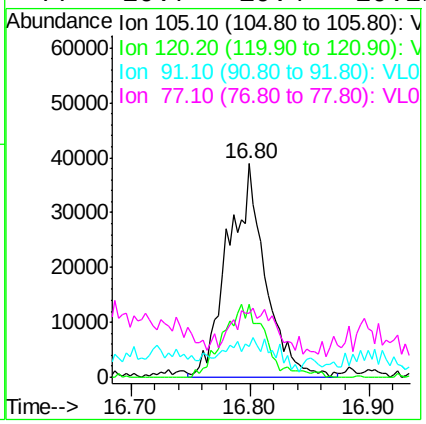





#74
1,2,4-Trimethylbenzene
Concen: 0.274 ppbv m
RT: 16.80 min Scan# 4358
Delta R.T. 0.01 min
Lab File: VL036188.D
Acq: 17 Dec 2020 5:04

Tgt Ion:105 Resp: 84864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 34.1 | 37.4 | 56.0# |
| 91 | 14.4 | 45.6 | 68.4# |
| 77 | 29.7 | 19.4 | 29.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
SV2

**Manual Integrations APPROVED**
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