Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121620\
Data File : VL036185.D
Acq On : 17 Dec 2020 3:08
Operator : SY/AP
Sample : L5041-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** MID

**Manual Integrations APPROVED**
MMDadoda
12/17/2020 3:56:57 PM

Quant Time: Dec 17 14:01:00 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 | 1329081 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.19 | 114 | 2593054 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.11 | 117 | 2403337 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.44 | 95 | 2143047 | 11.23 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 112.30% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.05 | 85 | 61079m | 0.394 | ppbv | | |
| 3) Chlorodifluoromethane | 2.99 | 51 | 68533 | 0.452 | ppbv | | 98 |
| 4) Chloromethane | 3.14 | 50 | 56693 | 0.762 | ppbv | | 91 |
| 7) Chloroethane | 3.56 | 64 | 82240 | 2.915 | ppbv | | 91 |
| 9) Propene | 3.02 | 41 | 60196 | 0.792 | ppbv | # | 82 |
| 11) Trichlorofluoromethane | 3.96 | 101 | 207386 | 1.139 | ppbv | | 98 |
| 13) Ethanol | 3.62 | 45 | 499013 | 47.652 | ppbv | | 90 |
| 15) Acetone | 3.85 | 43 | 1030526 | 6.451 | ppbv | | 100 |
| 18) 1,1-Dichloroethene | 4.30 | 96 | 135561m | 2.469 | ppbv | | |
| 19) Isopropyl Alcohol | 3.98 | 45 | 1460708 | 14.962 | ppbv | # | 100 |
| 20) Methylene Chloride | 4.35 | 84 | 607111m | 9.275 | ppbv | | |
| 22) trans-1,2-Dichloroethene | 4.89 | 96 | 26187m | 0.476 | ppbv | | |
| 24) 1,1-Dichloroethane | 5.02 | 63 | 1165544 | 7.792 | ppbv | | 99 |
| 26) Hexane | 5.70 | 57 | 619308 | 4.312 | ppbv | # | 39 |
| 34) 2-Butanone | 5.26 | 43 | 104398m | 0.607 | ppbv | | |
| 52) Tetrachloroethene | 11.25 | 164 | 5473m | 0.069 | ppbv | | |
| 53) Toluene | 9.83 | 91 | 183316 | 0.743 | ppbv | | 96 |
| 58) Ethyl Benzene | 12.73 | 91 | 31707m | 0.096 | ppbv | | |
| 59) m/p-Xylene | 12.99 | 91 | 94910m | 0.342 | ppbv | | |
| 60) o-Xylene | 13.72 | 91 | 39644m | 0.152 | ppbv | | |
| 74) 1,2,4-Trimethylbenzene | 16.79 | 105 | 64200m | 0.237 | ppbv | | |
| 75) 1,3-Dichlorobenzene | 17.02 | 146 | 178558m | 1.314 | 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 : VL036185.D
Acq On : 17 Dec 2020 3:08
Operator : SY/AP
Sample : L5041-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 14:01:00 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 :**
MID

**Manual Integrations APPROVED**
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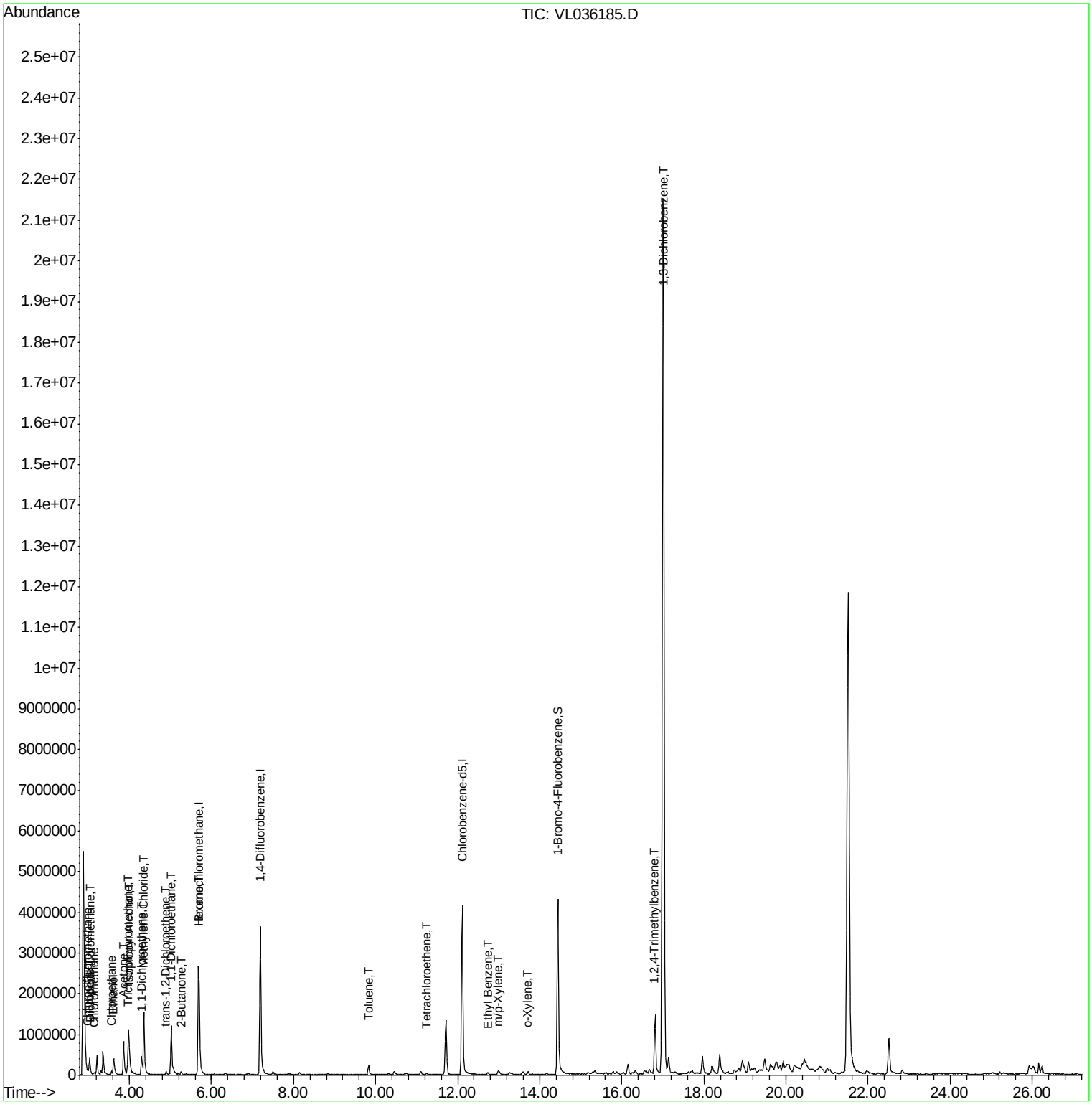
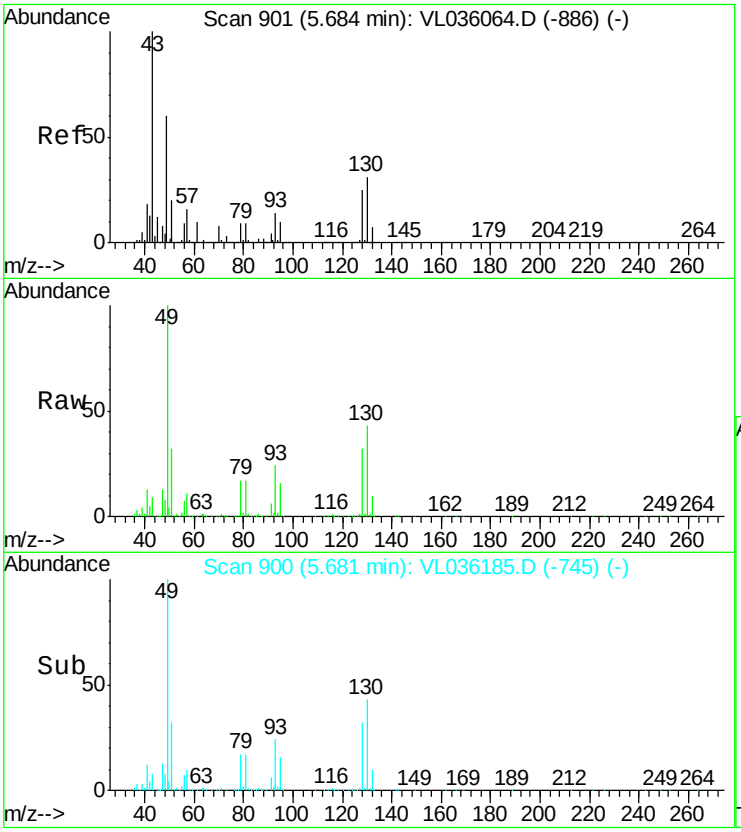
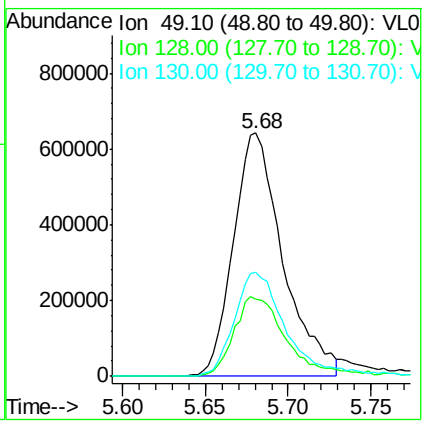





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 49 Resp: 1329081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 35.8 | 21.1 | 63.1 |
| 130 | 46.7 | 27.1 | 81.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

**Manual Integrations APPROVED**
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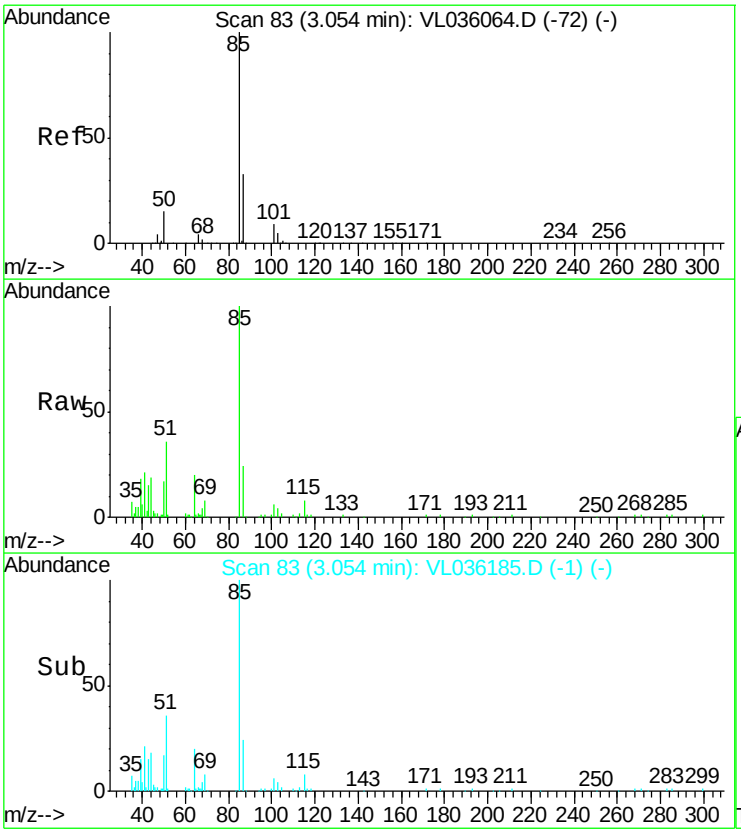
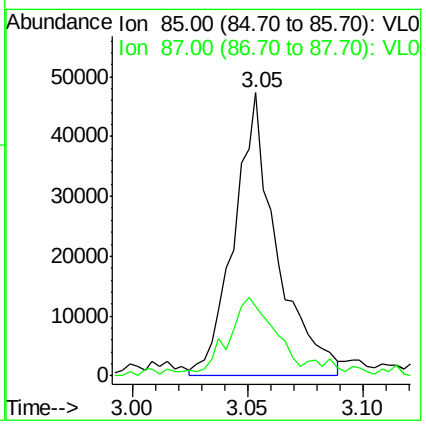
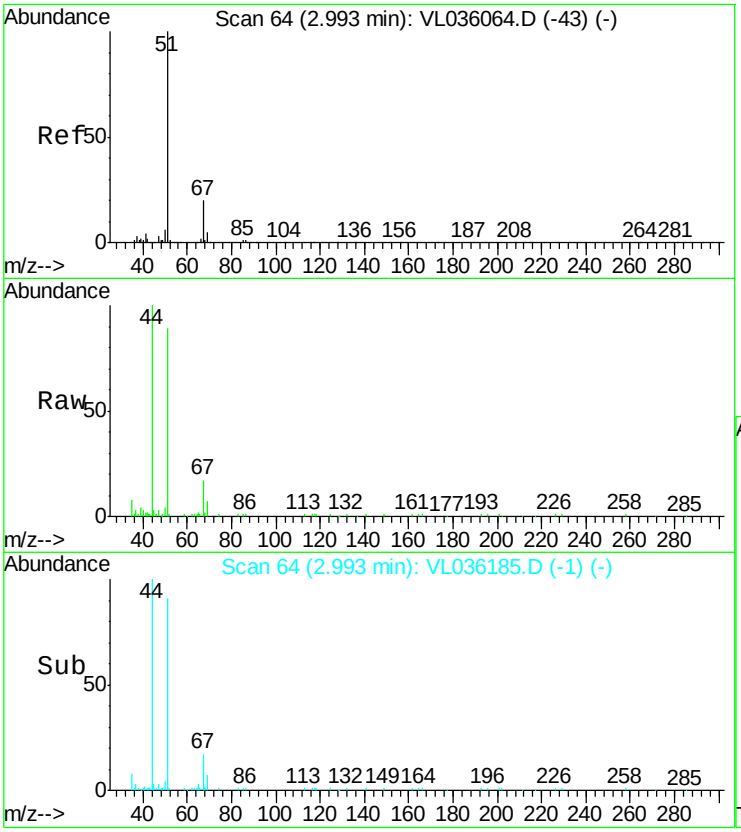



#2
Dichlorodifluoromethane
Concen: 0.394 ppbv m
RT: 3.05 min Scan# 83
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 85 Resp: 61079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 24.5 | 26.5 | 39.7# |

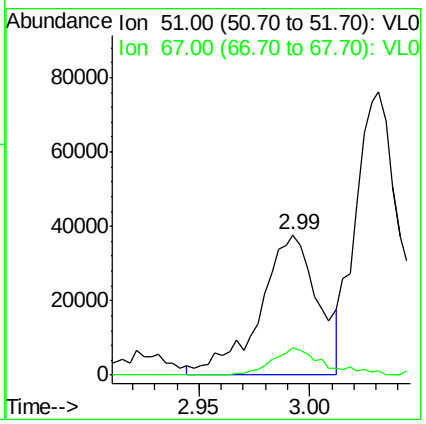





#3
Chlorodifluoromethane
Concen: 0.452 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 51 Resp: 68533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.9 | 14.3 | 21.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

**Manual Integrations APPROVED**
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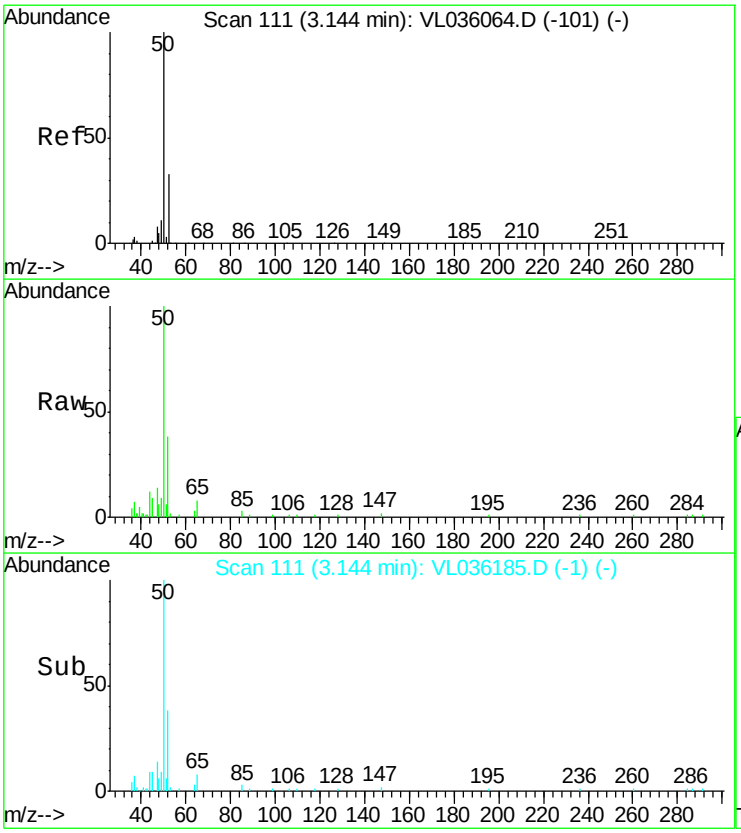
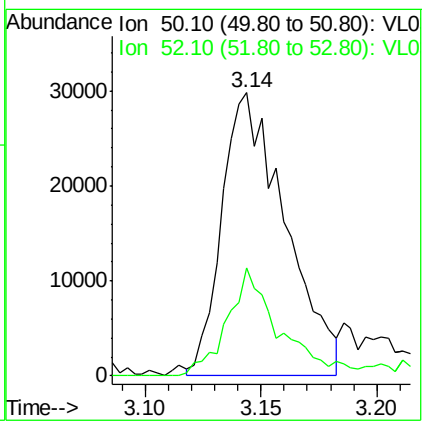
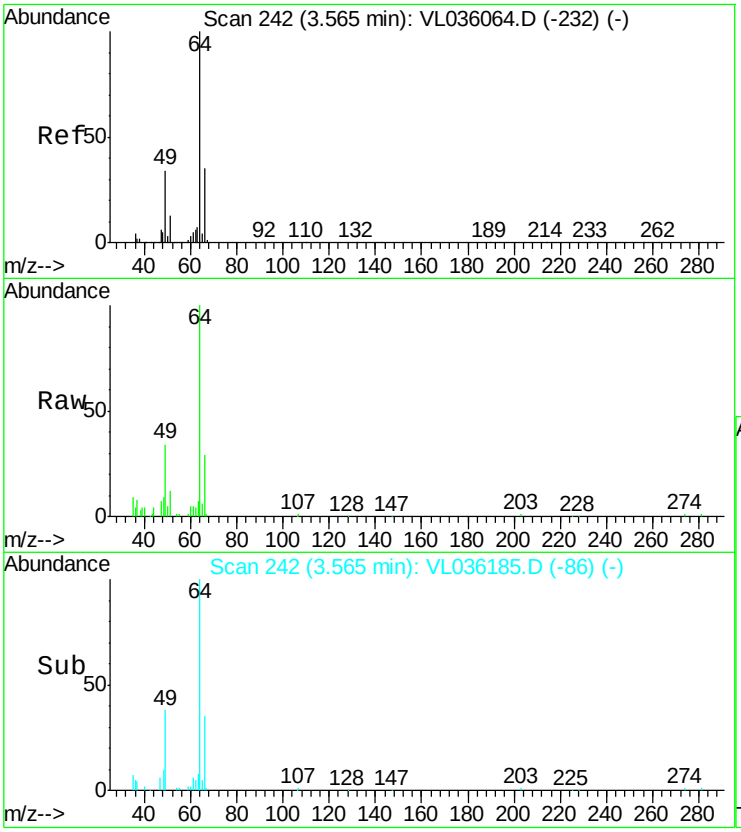



#4
Chloromethane
Concen: 0.762 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 50 Resp: 56693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 37.9 | 26.1 | 39.1 |

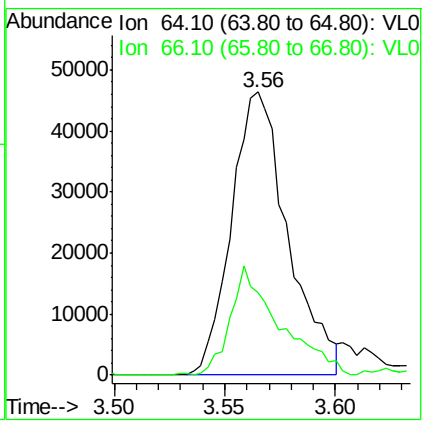





#7
Chloroethane
Concen: 2.915 ppbv
RT: 3.56 min Scan# 242
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 64 Resp: 82240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.2 | 27.7 | 41.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

**Manual Integrations APPROVED**
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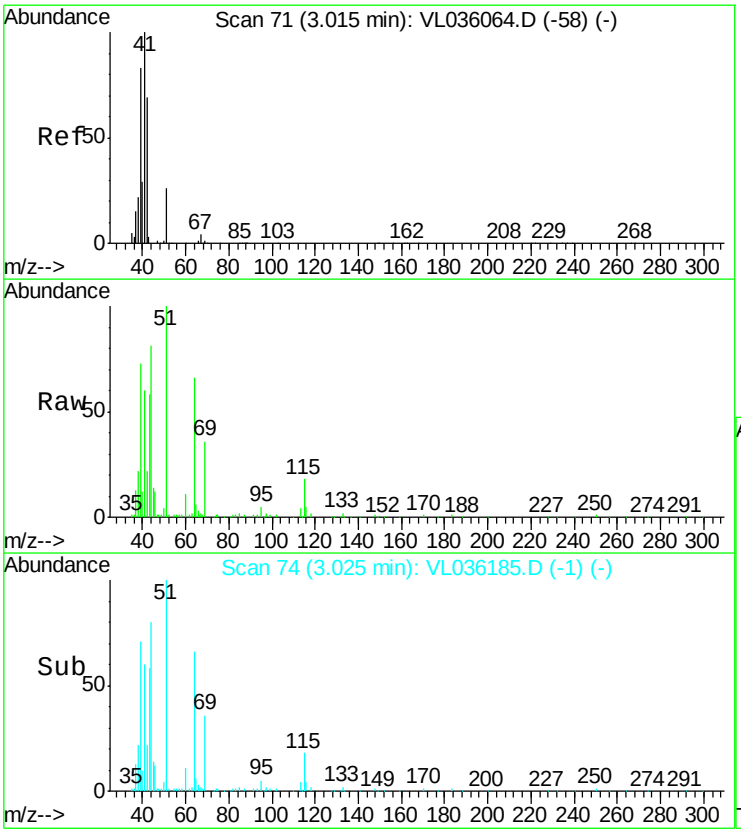
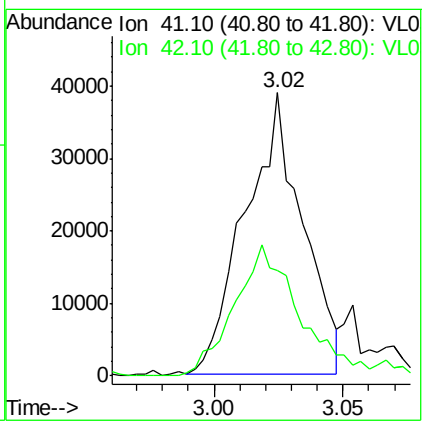
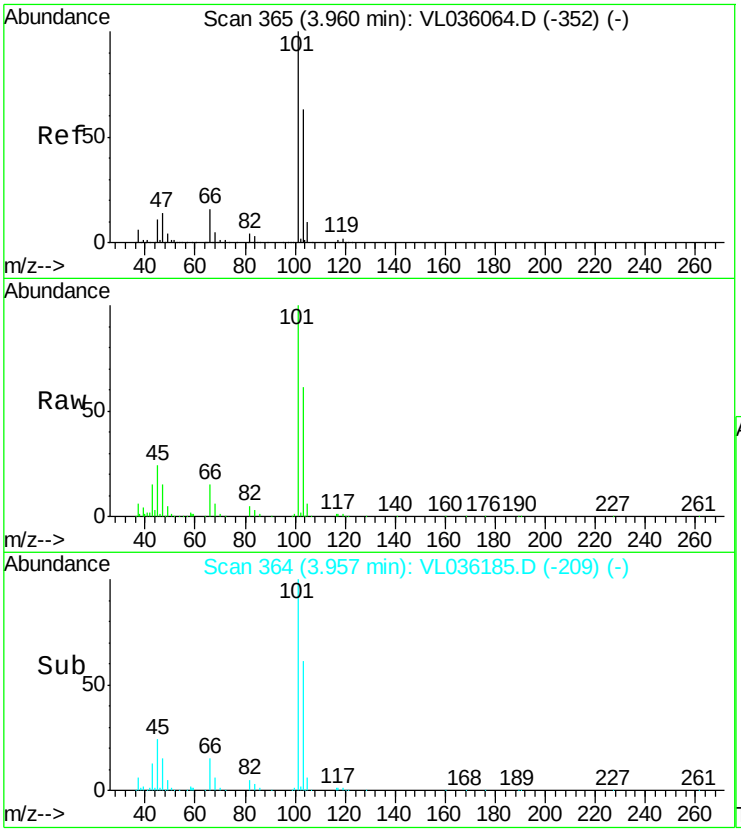



#9
Propene
Concen: 0.792 ppbv
RT: 3.02 min Scan# 74
Delta R.T. 0.01 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 41 Resp: 60196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 56.4 | 57.0 | 85.6# |

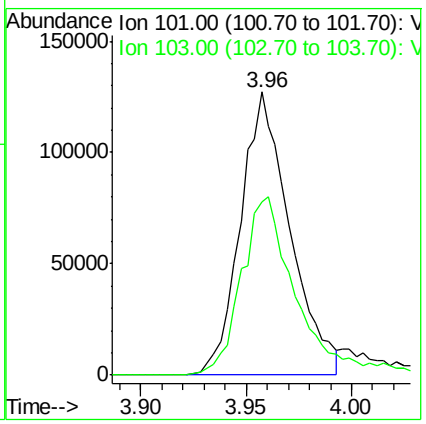





#11
Trichlorofluoromethane
Concen: 1.139 ppbv
RT: 3.96 min Scan# 364
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion:101 Resp: 207386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.1 | 50.3 | 75.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

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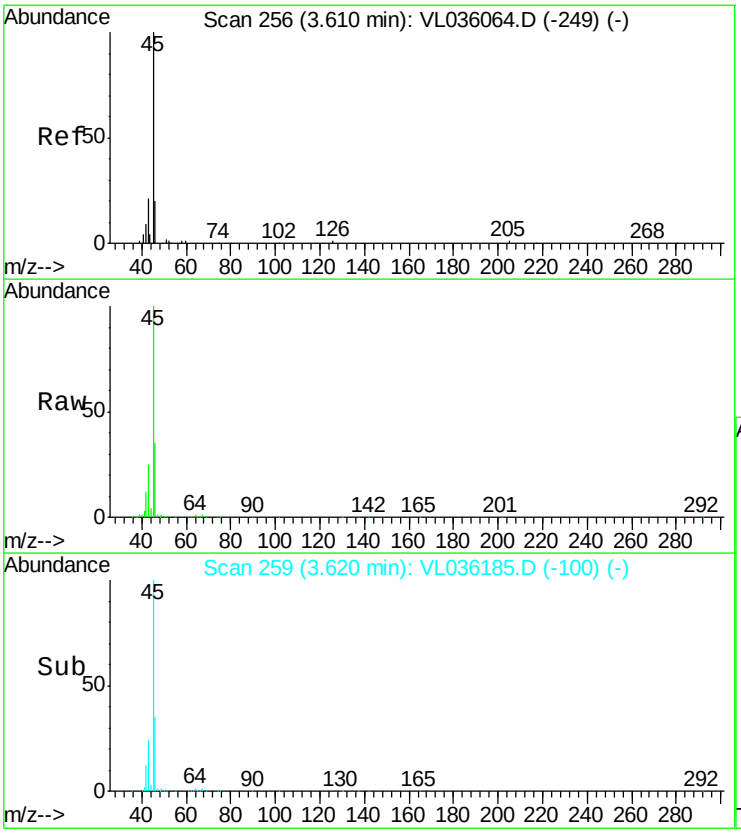
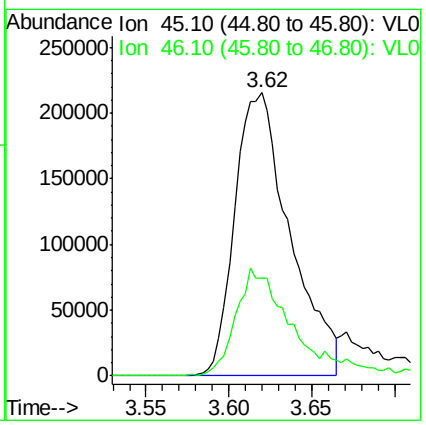
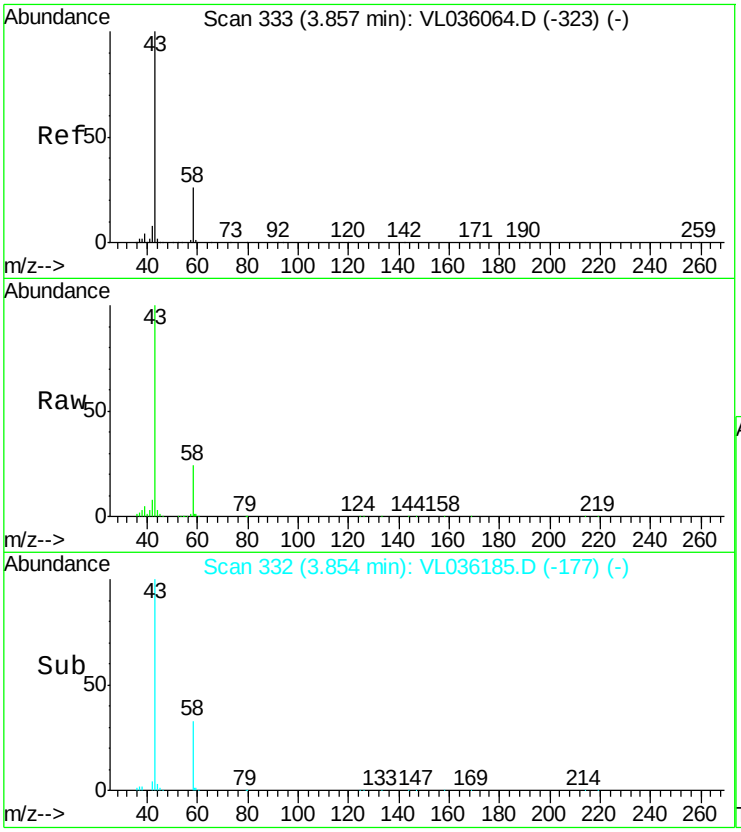



#13
Ethanol
Concen: 47.652 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 45 Resp: 499013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.7 | 19.0 | 75.8 |

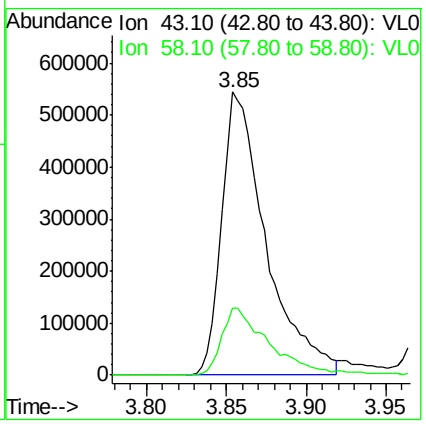





#15
Acetone
Concen: 6.451 ppbv
RT: 3.85 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 43 Resp: 1030526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.0 | 20.9 | 31.3 |




**Instrument :**
MSVOA_L
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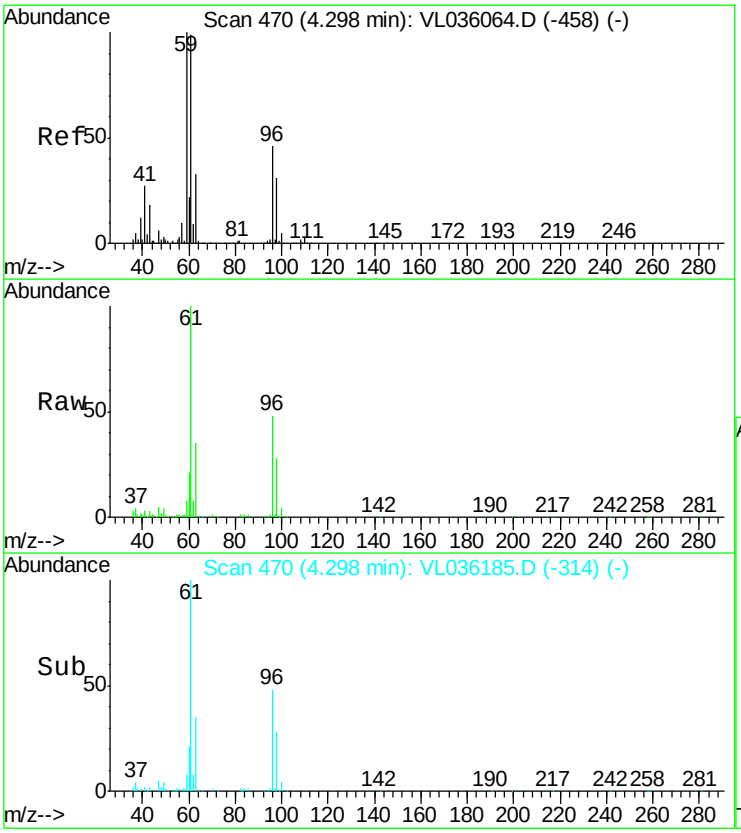
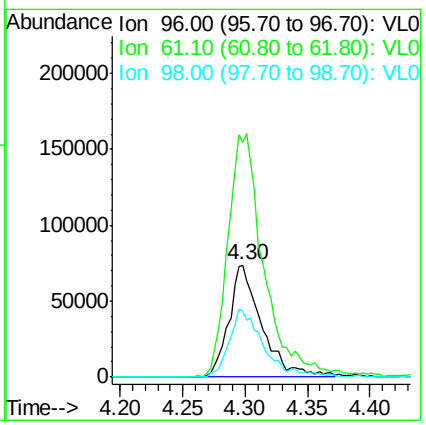
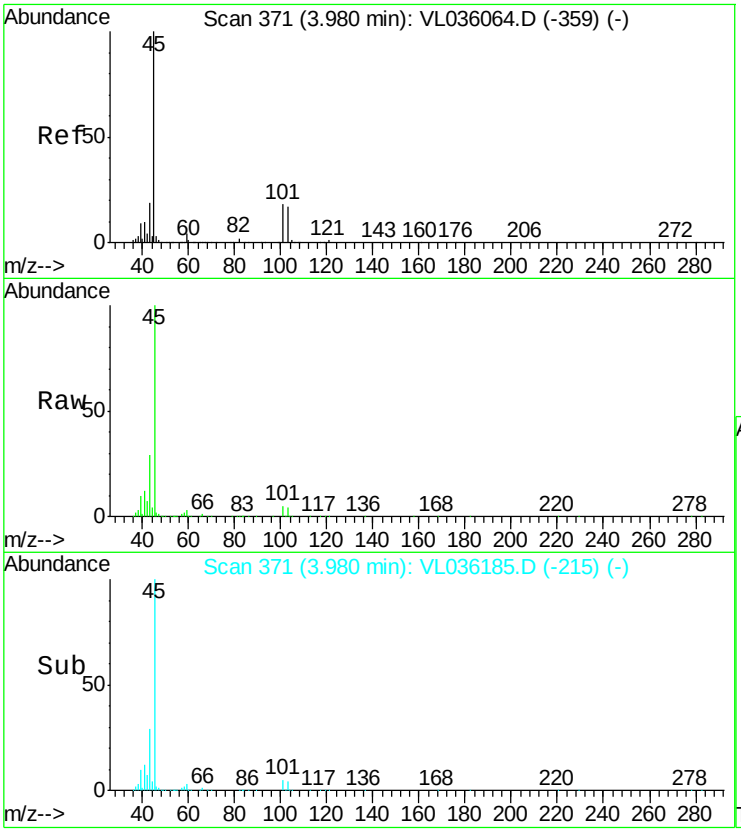



#18
1,1-Dichloroethene
Concen: 2.469 ppbv m
RT: 4.30 min Scan# 470
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 96 Resp: 135561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 209.5 | 171.4 | 257.2 |
| 98 | 58.9 | 54.2 | 81.2 |

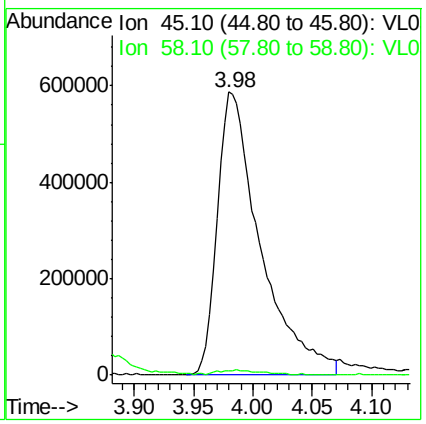





#19
Isopropyl Alcohol
Concen: 14.962 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 45 Resp: 1460708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.1 | 0.0 | 0.0# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

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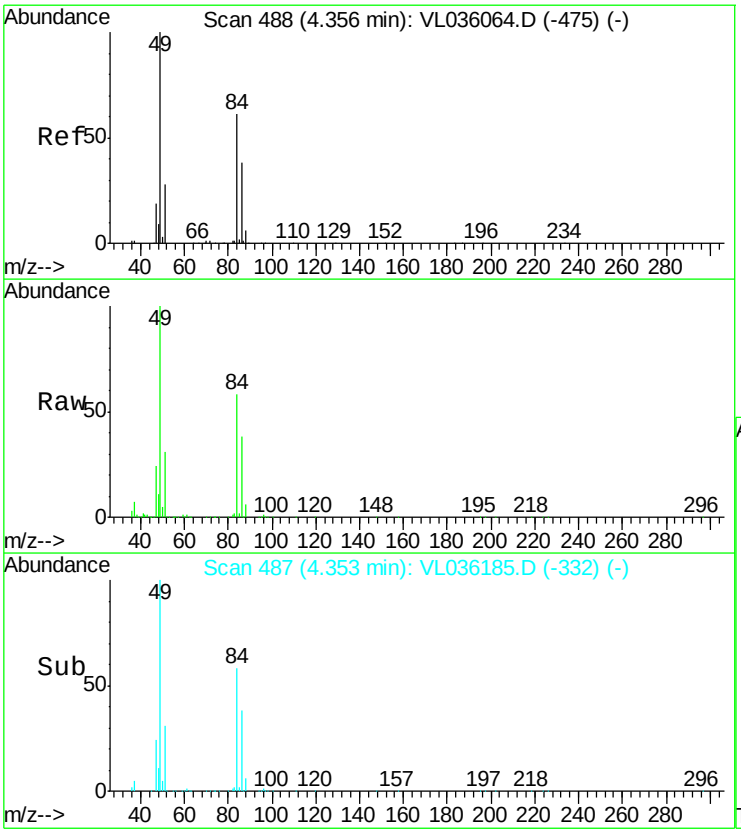
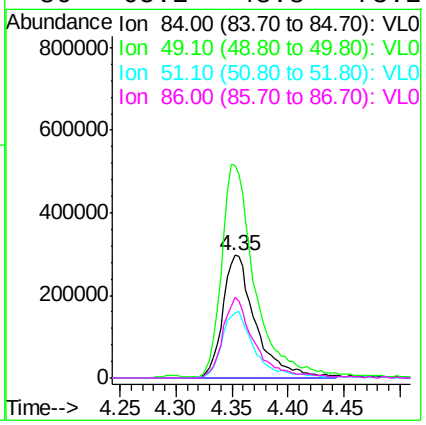
12/17/2020 3:56:57 PM

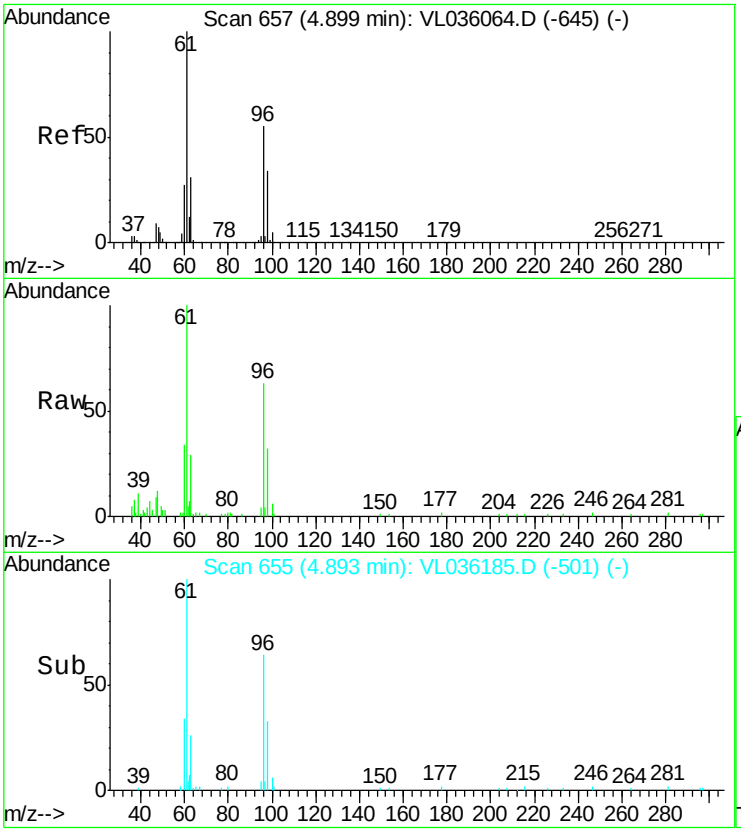



#20
Methylene Chloride
Concen: 9.275 ppbv m
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 84 Resp: 607111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 172.5 | 133.0 | 199.4 |
| 51 | 53.2 | 38.9 | 58.3 |
| 86 | 65.2 | 48.8 | 73.2 |

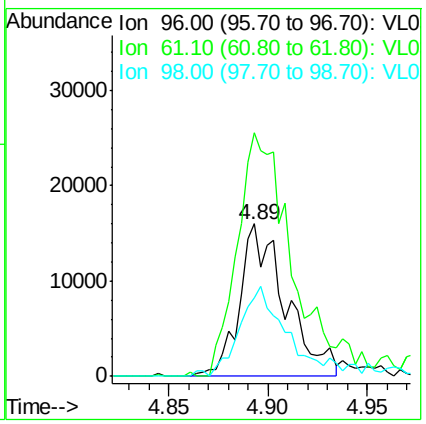





#22
trans-1,2-Dichloroethene
Concen: 0.476 ppbv m
RT: 4.89 min Scan# 655
Delta R.T. -0.01 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 96 Resp: 26187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.0 | 145.7 | 218.5 |
| 98 | 51.3 | 49.2 | 73.8 |

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MSVOA_L
**ClientSampleId :**
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**Manual Integrations APPROVED**
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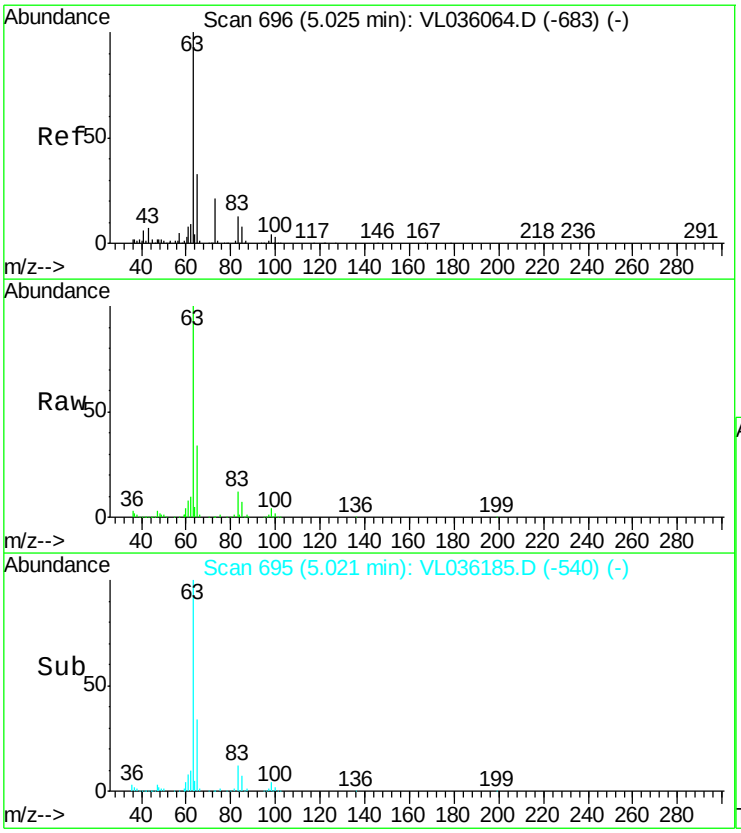
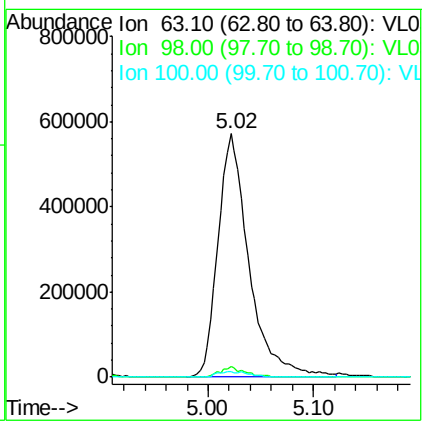
12/17/2020 3:56:57 PM

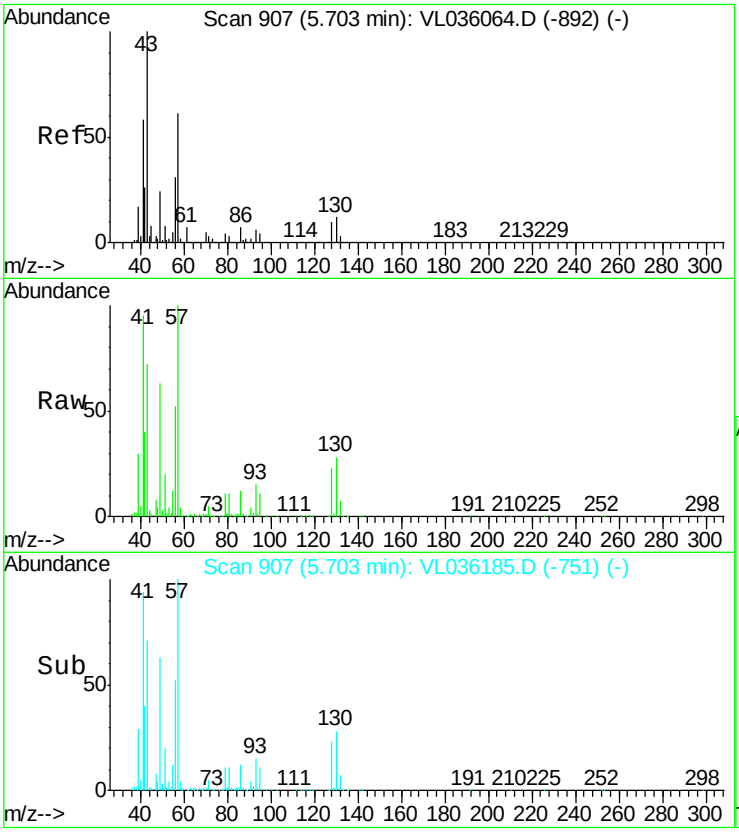



#24
1,1-Dichloroethane
Concen: 7.792 ppbv
RT: 5.02 min Scan# 695
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 63 Resp: 1165544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.1 | 2.2 | 6.6 |
| 100 | 2.2 | 1.5 | 4.4 |

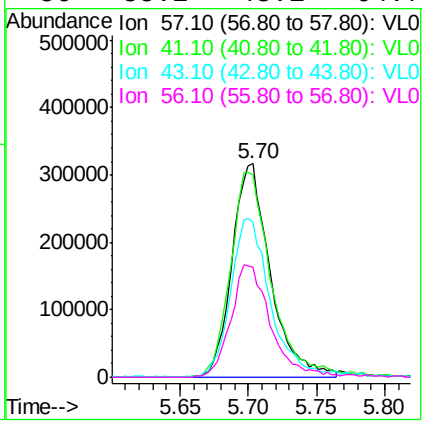





#26
Hexane
Concen: 4.312 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 57 Resp: 619308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 102.9 | 82.9 | 124.3 |
| 43 | 77.7 | 199.9 | 299.9# |
| 56 | 55.2 | 43.1 | 64.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

**Manual Integrations APPROVED**
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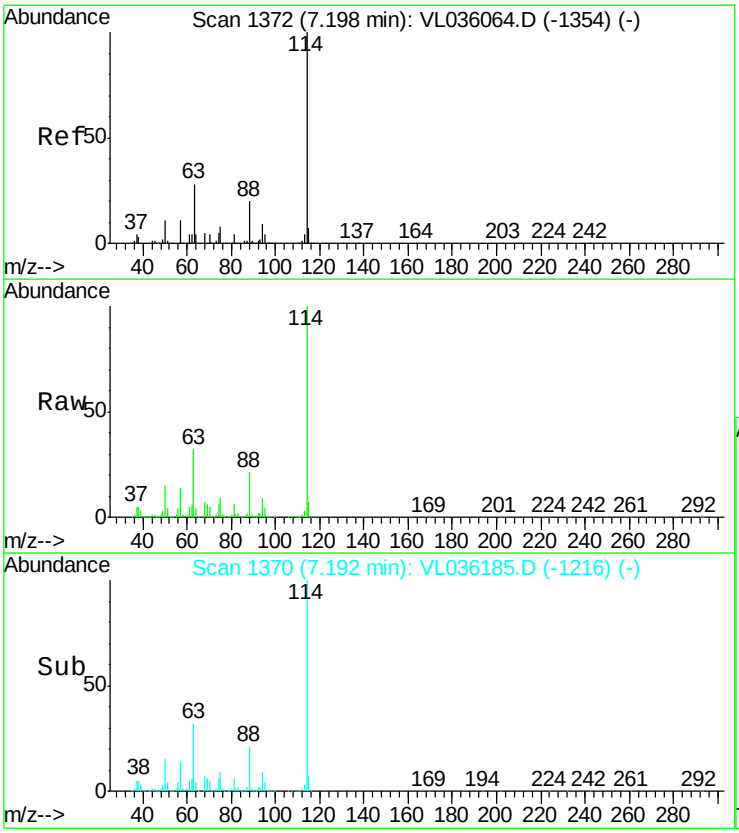
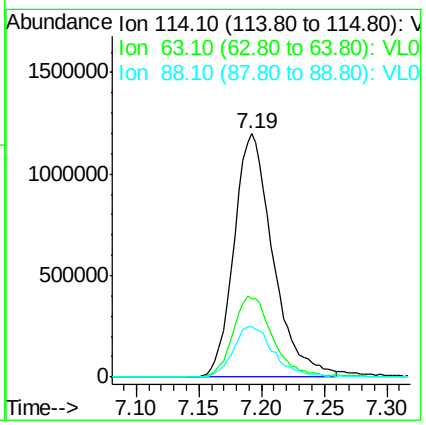
12/17/2020 3:56:57 PM

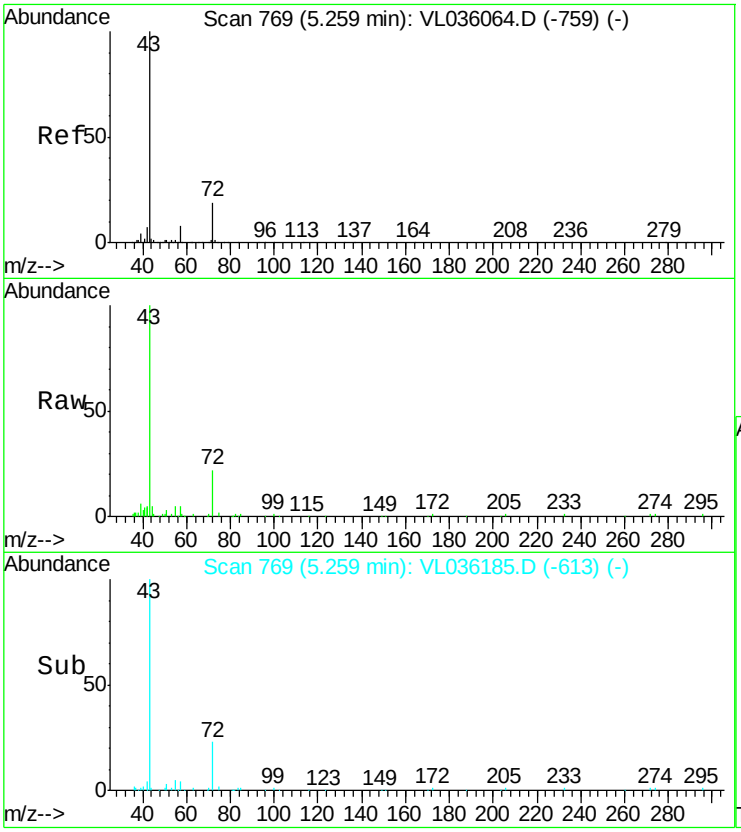



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion:114 Resp: 2593054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 34.4 | 23.6 | 35.4 |
| 88 | 22.0 | 15.8 | 23.6 |

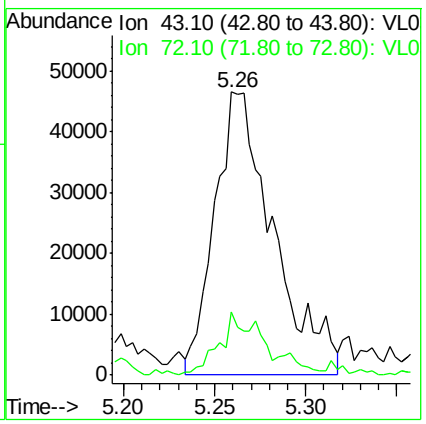





#34
2-Butanone
Concen: 0.607 ppbv m
RT: 5.26 min Scan# 769
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 43 Resp: 104398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 19.0 | 16.5 | 24.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

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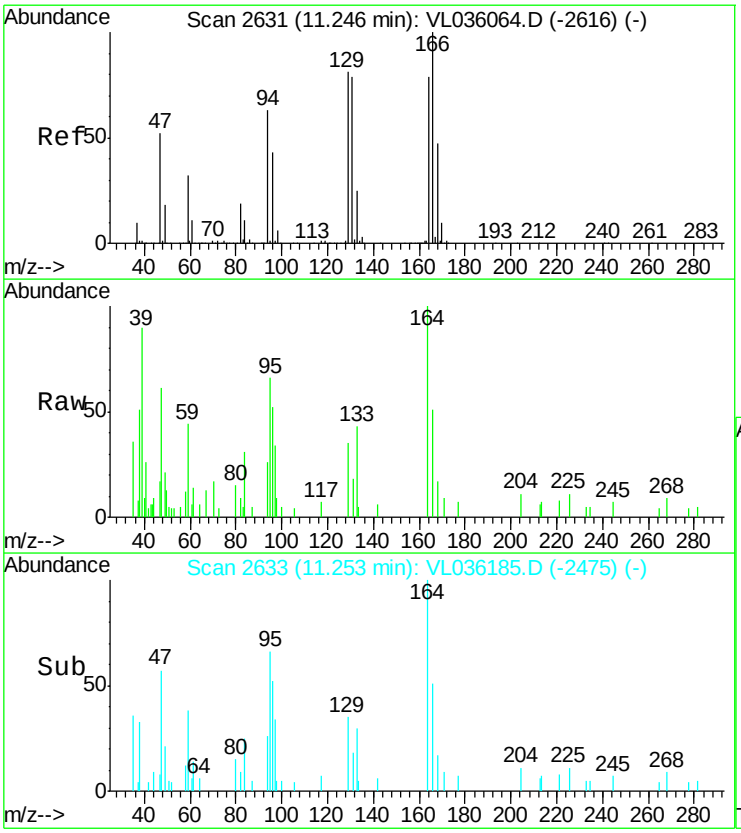
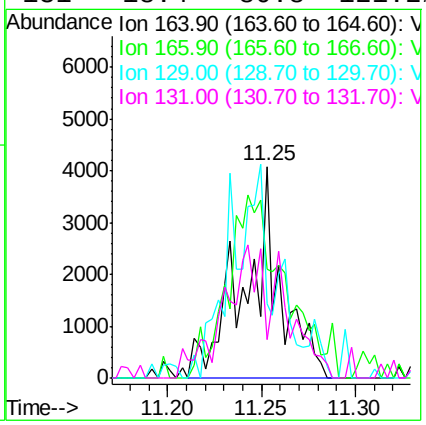
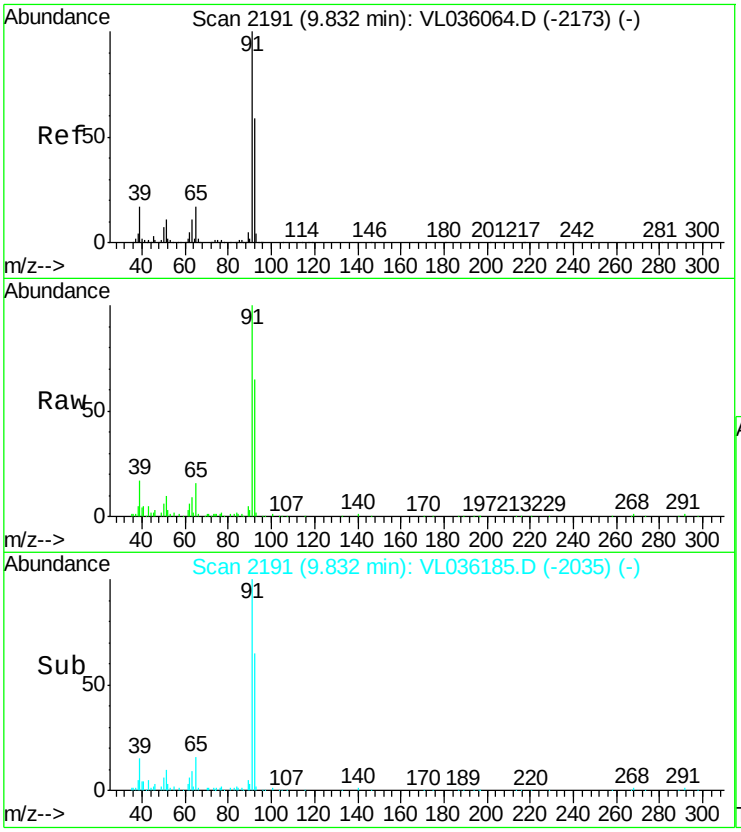



#52
Tetrachloroethene
Concen: 0.069 ppbv m
RT: 11.25 min Scan# 2633
Delta R.T. 0.01 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion:164 Resp: 5473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 51.5 | 101.9 | 152.9# |
| 129 | 35.1 | 82.1 | 123.1# |
| 131 | 18.4 | 80.8 | 121.2# |






#53
Toluene
Concen: 0.743 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 91 Resp: 183316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 62.9 | 48.2 | 72.2 |

**Instrument :**
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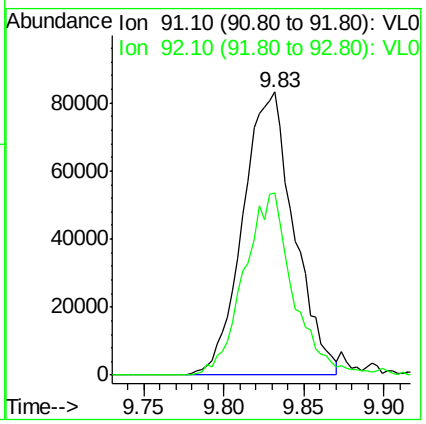
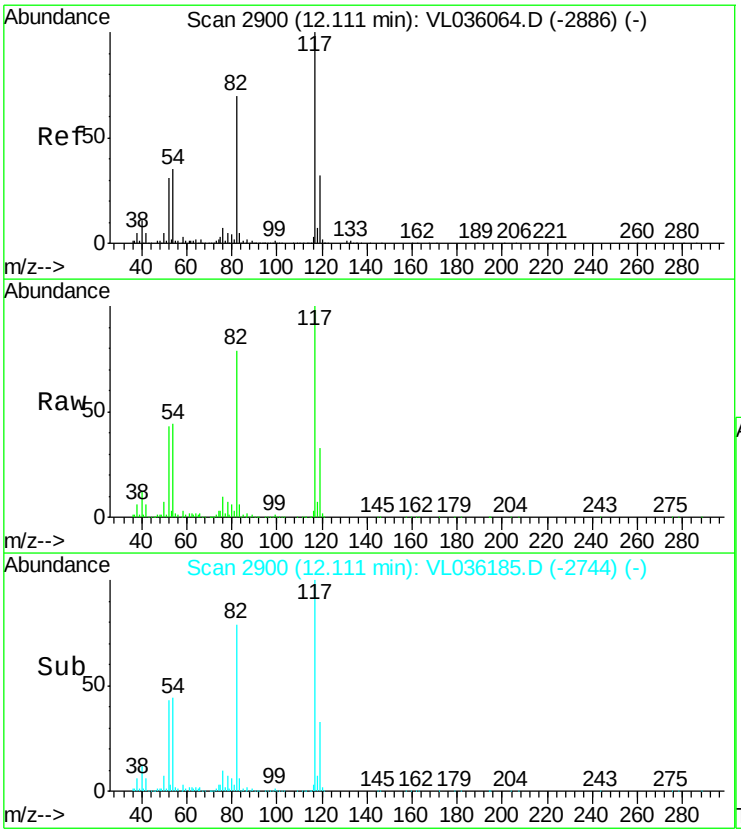
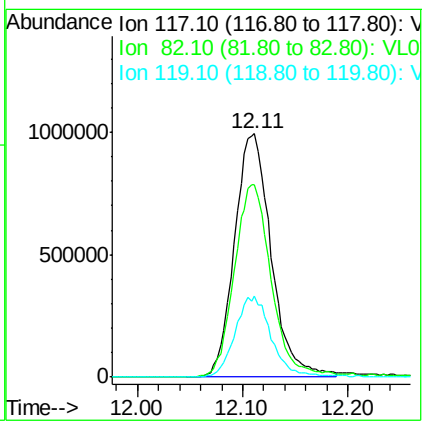


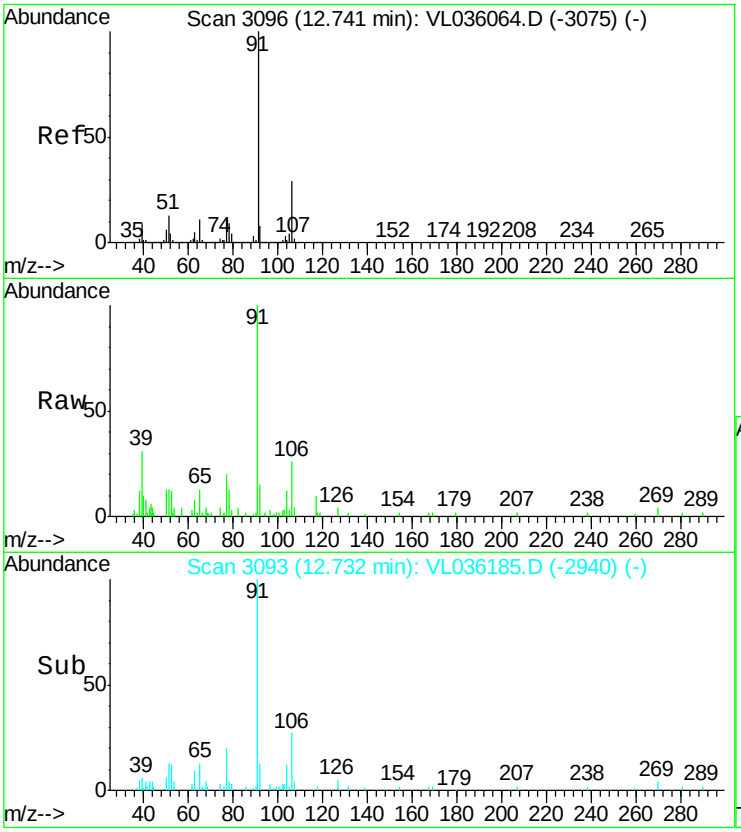




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion:117 Resp: 2403337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 80.9 | 0.0 | 0.0# |
| 119 | 33.3 | 0.0 | 0.0# |






#58
Ethyl Benzene
Concen: 0.096 ppbv m
RT: 12.73 min Scan# 3093
Delta R.T. -0.01 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 91 Resp: 31707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.2 | 23.0 | 34.4 |

**Instrument :**
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MID

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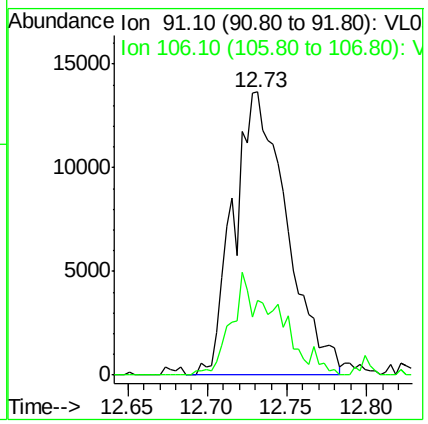
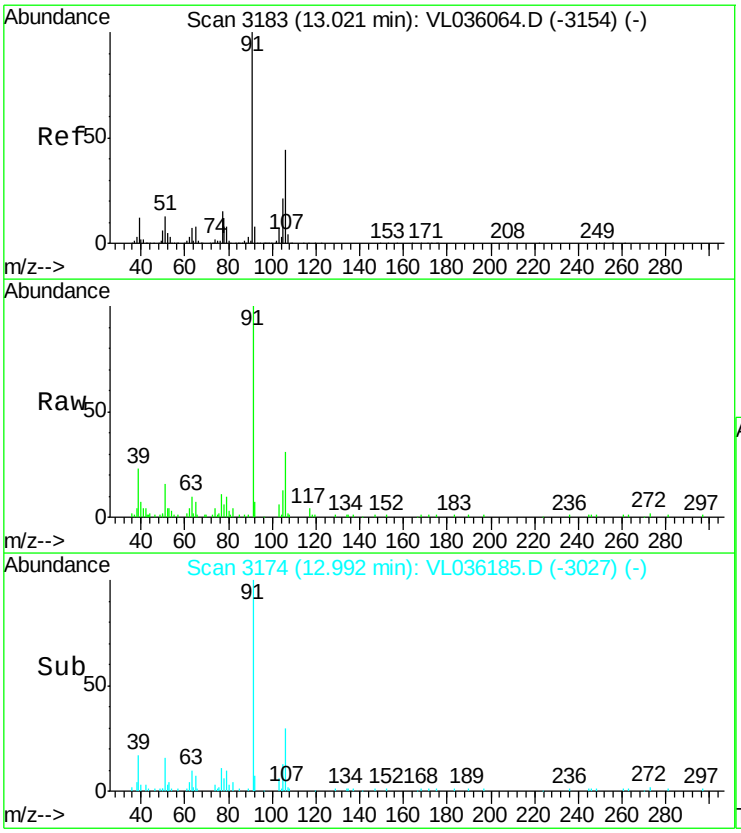
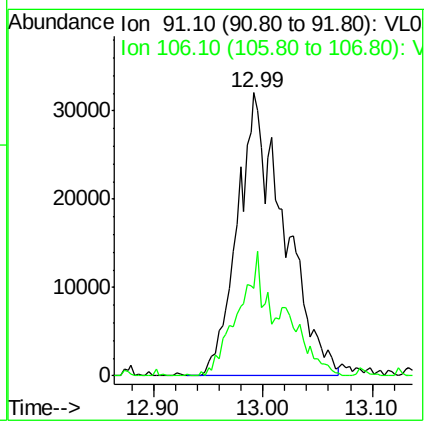


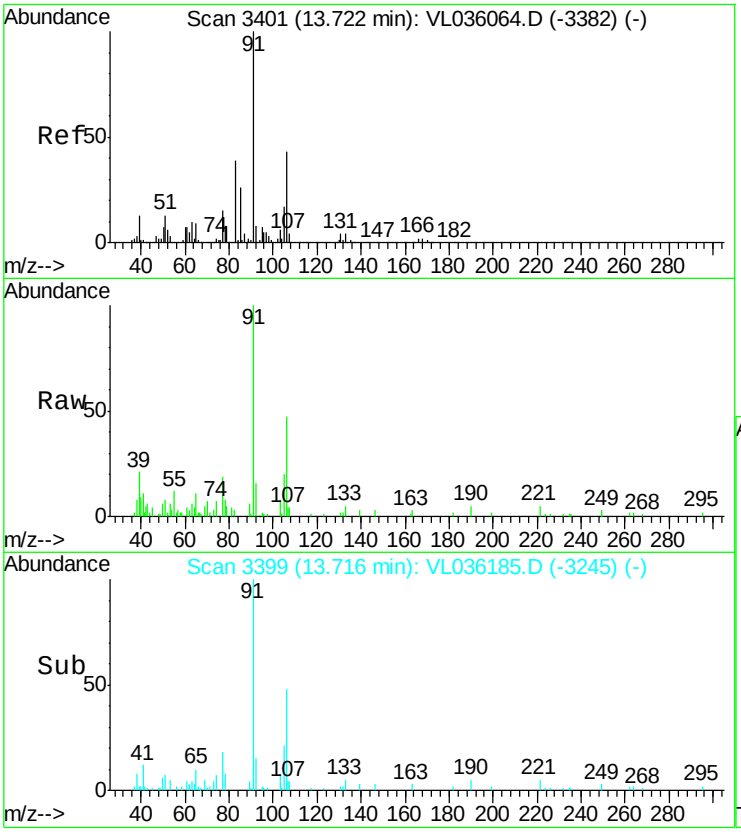




#59
m/p-Xylene
Concen: 0.342 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 91 Resp: 94910

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






#60
o-Xylene
Concen: 0.152 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 91 Resp: 39644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.2 | 21.6 | 64.6 |

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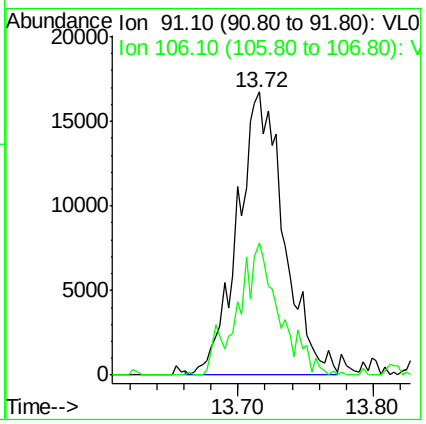
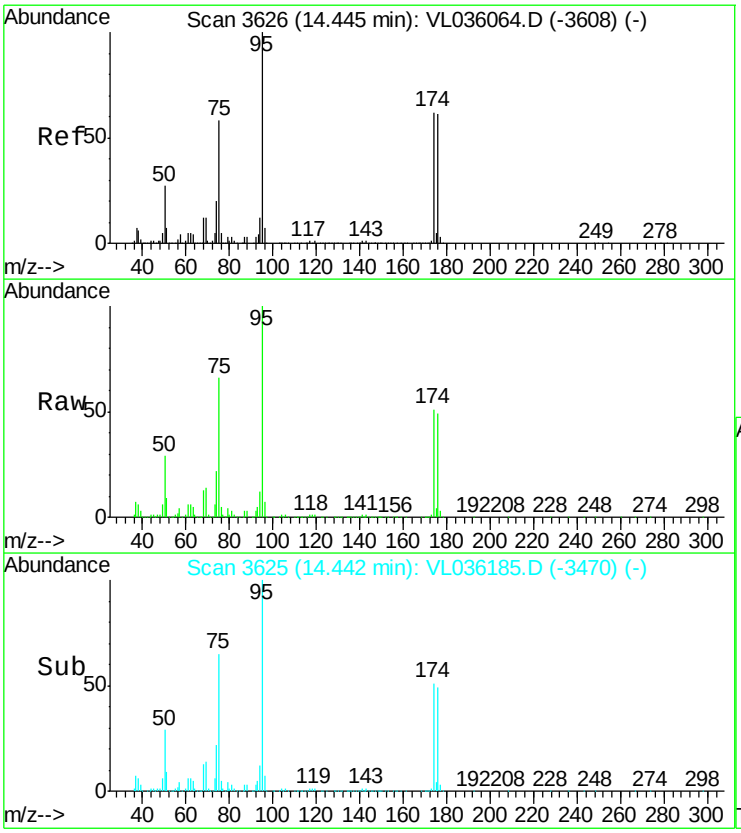
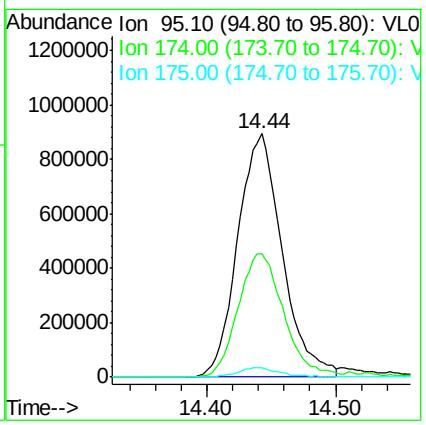


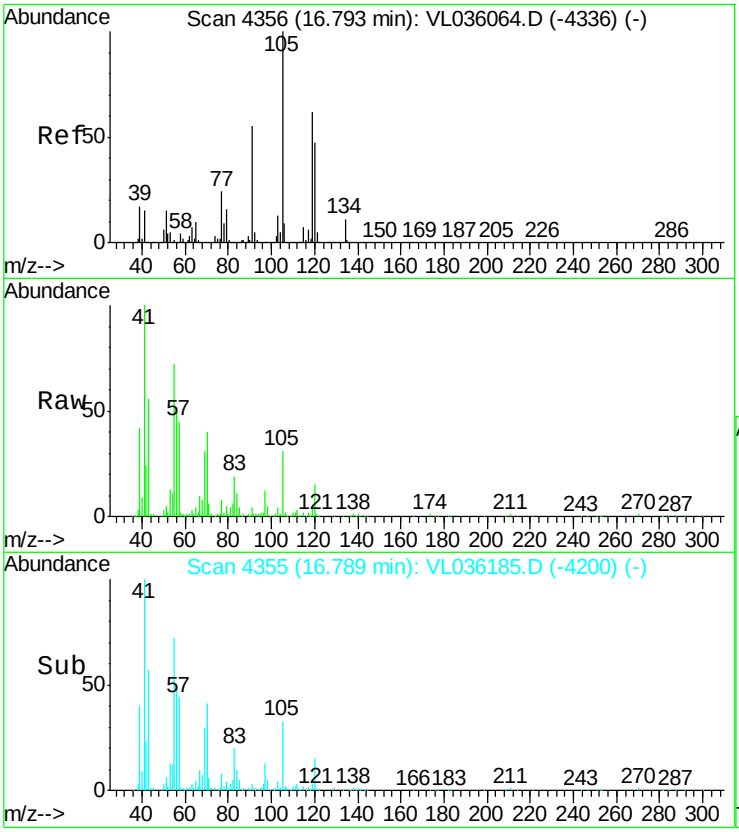




#68
1-Bromo-4-Fluorobenzene
Concen: 11.230 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion: 95 Resp: 2143047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 54.3 | 50.7 | 76.1 |
| 175 | 3.8 | 4.0 | 6.0# |

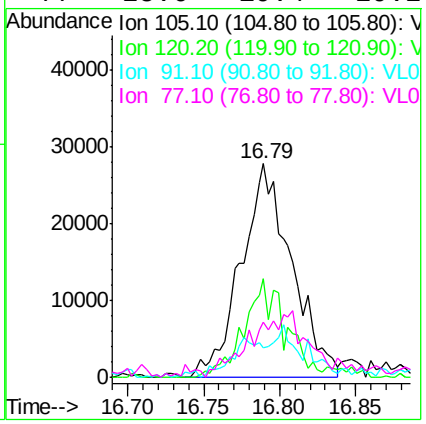





#74
1,2,4-Trimethylbenzene
Concen: 0.237 ppbv m
RT: 16.79 min Scan# 4355
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion:105 Resp: 64200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 37.4 | 56.0 |
| 91 | 13.8 | 45.6 | 68.4# |
| 77 | 25.6 | 19.4 | 29.2 |

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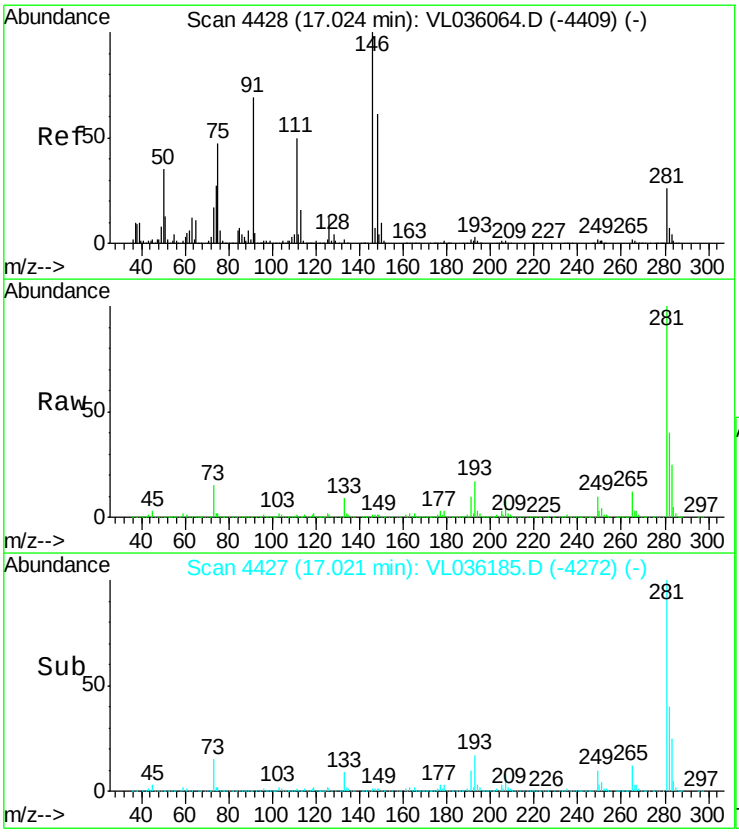


#75
1,3-Dichlorobenzene
Concen: 1.314 ppbv m
RT: 17.02 min Scan# 4427
Delta R.T. -0.00 min
Lab File: VL036185.D
Acq: 17 Dec 2020 3:08

Tgt Ion:146 Resp: 178558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 100.7 | 25.1 | 75.3# |
| 148 | 84.5 | 32.9 | 98.6 |