

FCAL1 Process Sheet

T.Embry/P.Loch/L.Shaver

Process Spec: 1.3.3.1.1.1-1 – Tube Dimension Inspection

Components: Copper Tube [4.2.7.1.2.1]

Material: Nitril Gloves

Tooling: Digital Micrometer
Starrett Custom Digital Bore Gauge
24" Vernier Calipers

Location: UofA PAS 180A – Office

QC Form:

Process:

1. Wear nitril gloves for this entire process. Use 200 tubes passing the visual inspection process [1.3.3.1.1.2-1](#).
2. Measure tube outer diameter at two places (90° apart) at each end and in the center of the tube. Use the LabView application `micro` and `bg.vi` for this purpose. Save/store the data.
3. Measure tube inner diameter at two places (90° apart) at 1cm from tube end. Repeat for other end of tube. Save/store the data.
4. Measure tube length with caliper. Record.

Remarks:

Global Process: [1.3.3.1.1.1](#) – Tube Acceptance Inspection

Previous: [1.3.3.1.1.2-1](#) – Visual Tube Inspection
[some or all selected tubes]

Follow-Up: none