3-Port De-embedding and S3P collection method

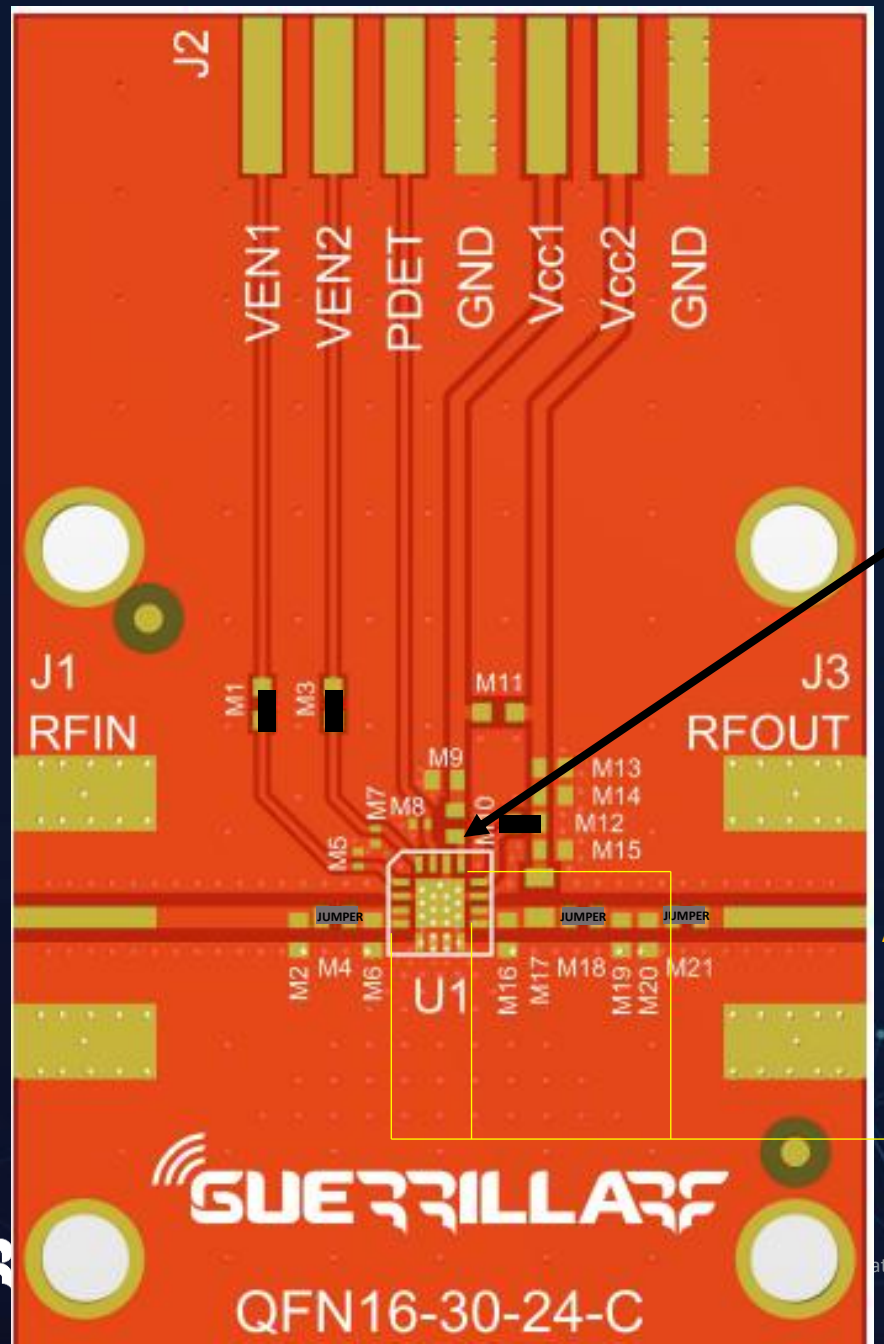
Calibration extended to the yellow lines on U1 using a blank EVB. Cable calibration length is now augmented to include trace lengths.

Device is mounted and de-embedded 3-Port S-Parameters are gathered. Bias-Ts internal to the NA are used to provide Voltage to Port3 and Port2.

During S3P Data collection:
J3 Header Ven1=5v, Ven2=5v, Vcc2=5v(only supplies bias using M13)
VSHDN=GND

Port2 Connection supplies Stage 1 of the PA and Port 3 supplies Stage 2. Ports 2 and 3 use different voltages to provide more varying S3P files to suit different supply voltages customers may use.

M1=3.3kΩ
M5=6.8kΩ
M13=0Ω



Network Analyzer Port2 via. SMA pigtail

Network Analyzer Port1

Network Analyzer Port3

Calibration on the Network Analyzer extends cal to the U1 site as shown using Port Extension Feature on the Network Analyzer. (open and short to correct calibration reference plane).