

Annex E - 15.209

[Naming Convention]

Channel (Low, Mid, High)_Frequency (MHz)_ Bandwidth (10MHz)_Measurement (15.209)_Frequency Range (Upper Band Edge, Lower Band Edge)_Type (Peak, Avg)_Port (1, 2)

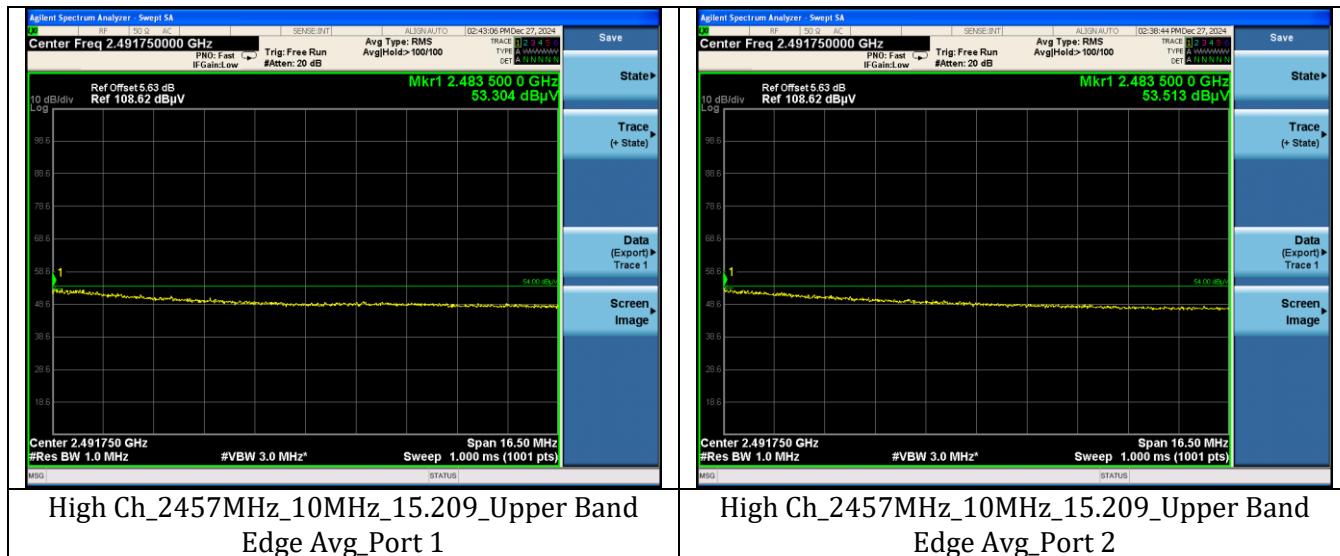
Note: 15.209 band edge tests for 20 MHz bandwidth were performed radiated, while 10 MHz bandwidth were performed conducted in lieu of radiated.

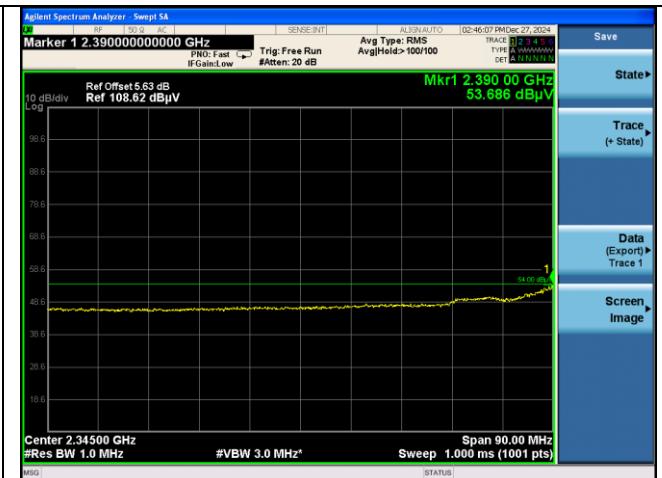
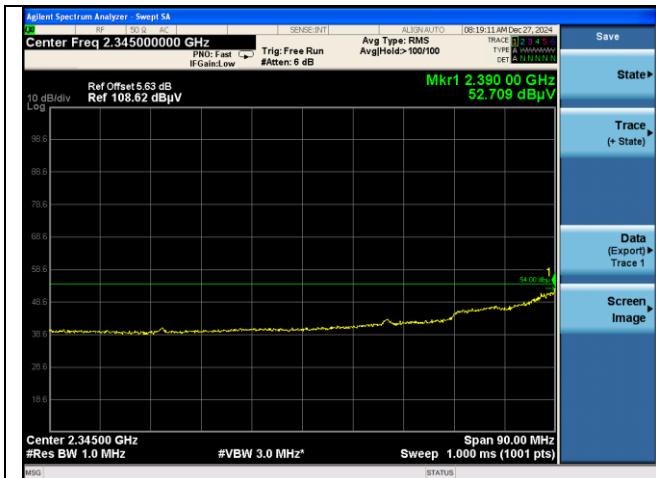
Note: 15.209 conducted measurements are in units of dB_uV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2013. The following formula applies to conducted measurements only and was used in making such conversions:

Above 1GHz: $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77$, where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 m. Straight conversion between $E[\text{dB}\mu\text{V}/\text{m}]$ and $\text{EIRP}[\text{dBm}] = 107$. Thus offset for dB_uV/m at 3meters is 95.2-107+antenna gain.
Additional $10^*\log(\text{Number of antennas}[2])$ added to consider MIMO operation

Note: additional factors added to offset to consider attenuator + cable loss.

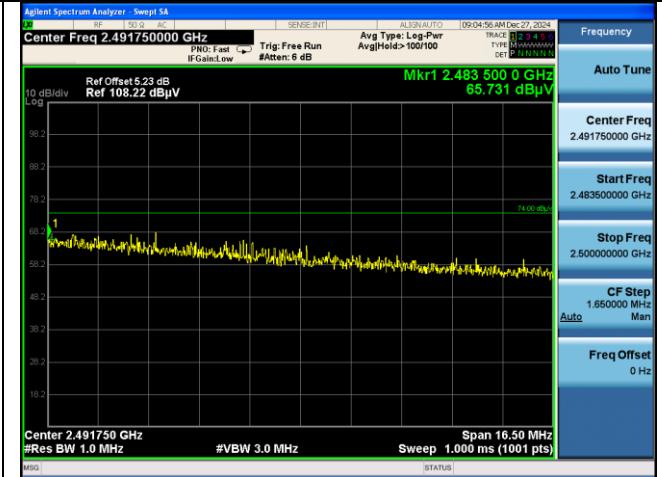
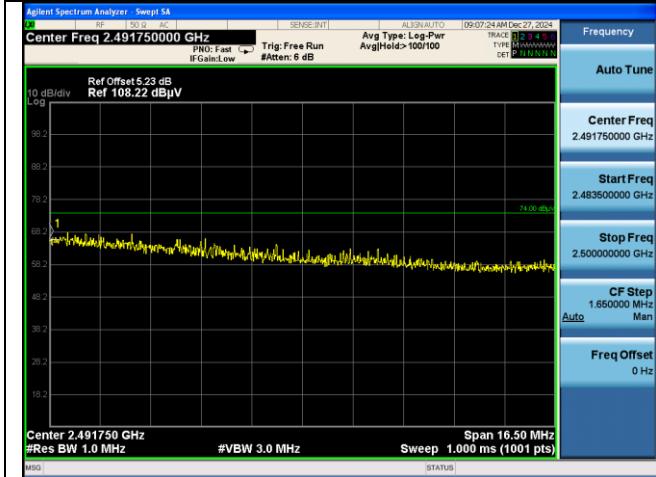
Note: DCCF already considered into offset for average measurements.





Low Ch_2416MHz_10MHz_15.209_Lower Band Edge Avg_Port 1

Low Ch_2416MHz_10MHz_15.209_Lower Band Edge Avg_Port 2



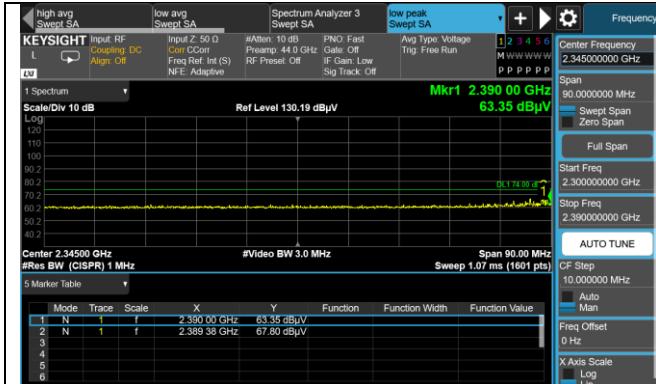
High Ch_2457MHz_10MHz_15.209_Upper Band Edge Peak_Port 1

High Ch_2457MHz_10MHz_15.209_Upper Band Edge Peak_Port 2

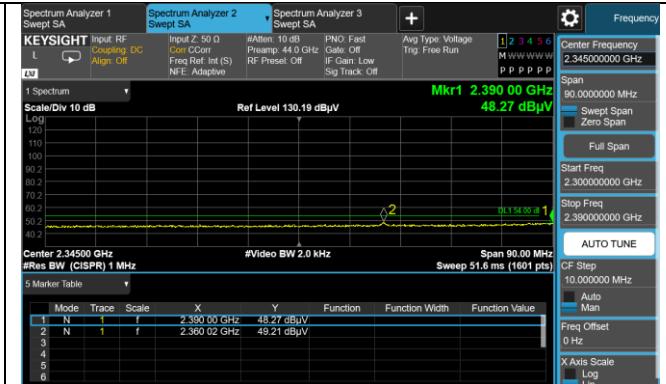


Low Ch_2416MHz_10MHz_15.209_Lower Band Edge Peak_Port 1

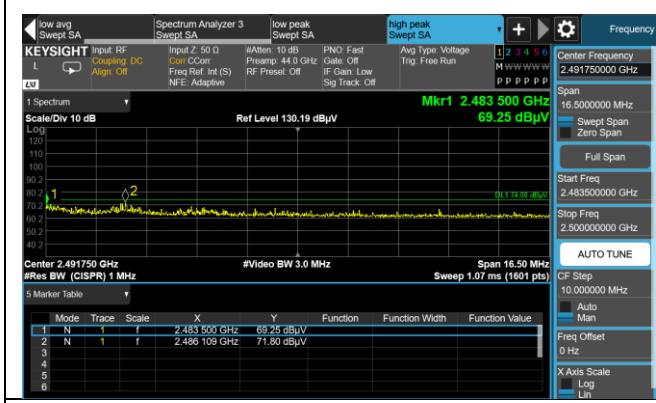
Low Ch_2416MHz_10MHz_15.209_Lower Band Edge Peak_Port 2



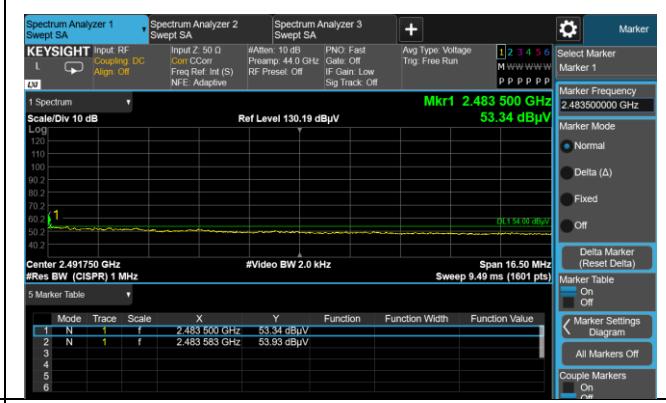
Mid Ch_2440MHz_20MHz_15.209_Lower Band Edge Peak



Mid Ch_2440MHz_20MHz_15.209_Lower Band Edge Avg



Mid Ch_2440MHz_20MHz_15.209_Upper Band Edge Peak



Mid Ch_2440MHz_20MHz_15.209_Upper Band Edge Avg