

## Annex E – FCC §15.209 Band Edges Measurement

Below measurements are in units of dBuV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2013. The formulas presented below were used in making such conversions.

### Above 1 GHz:

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77$$

where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$$

for  $d = 3 \text{ m}$ .

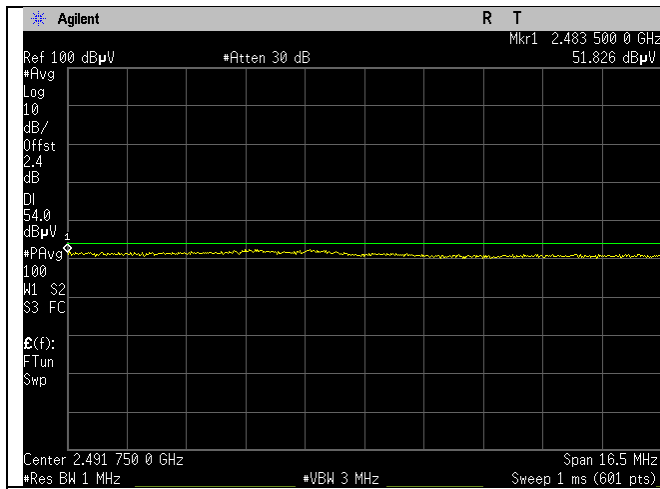
Straight conversion between  $E[\text{dB}\mu\text{V/m}]$  and  $\text{EIRP}[\text{dBm}] = 107$ , thus offset for dBuV/m at 3meters is

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 95.2 + 107 + \text{Antenna Gain (dBi)}$$

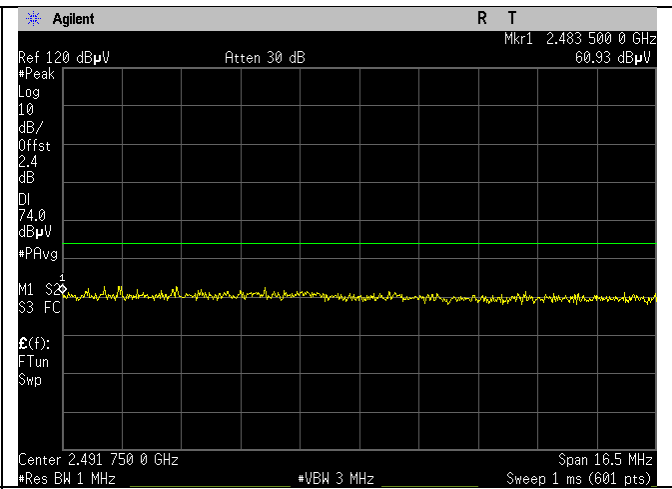
Note: duty cycle correction factor need be added to average measurements

BandEdge	Frequency (GHz)	S.A. Reading (dBμV/m @3m)	Duty Cycle Correction Factor (dB)	Corrected Amplitude (dBμV/m @3m)	Limit (dBμV/m @ 3m)	Margin (dB)
802.11b						
Low	2.3900	51.467	0.269	51.736	54	-2.264
High	2.4835	51.826	0.269	52.095	54	-1.905
802.11g						
Low	2.3900	53.345	0.282	53.627	54	-0.373
High	2.4835	52.371	0.282	52.653	54	-1.347

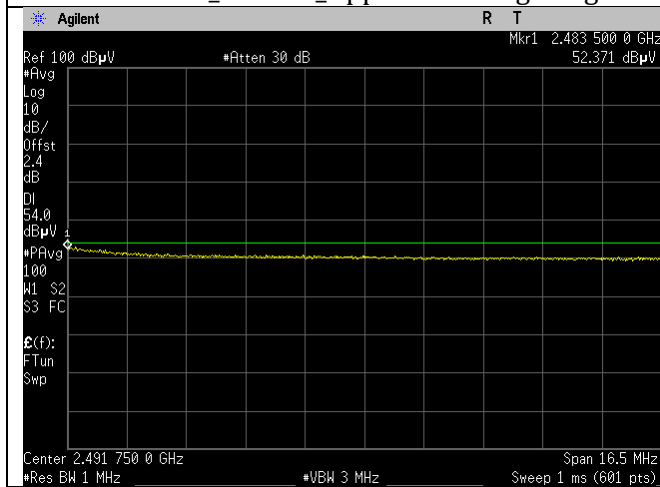
## Naming Convention: Frequency(MHz)\_mode\_measurement(Peak,Avg)



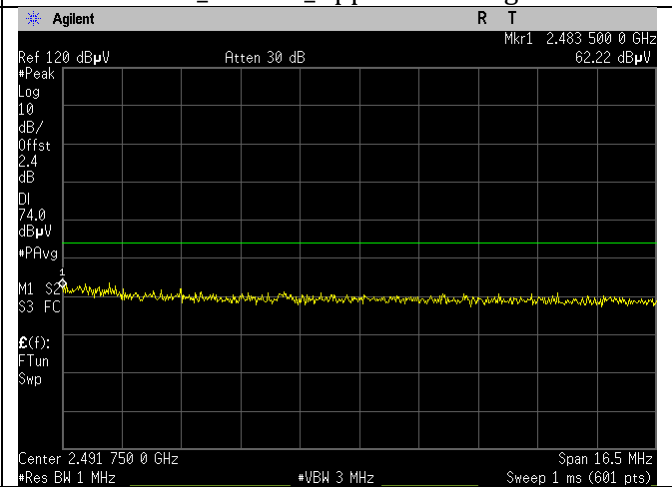
2462MHz\_b-mode\_Upper Band Edge Avg



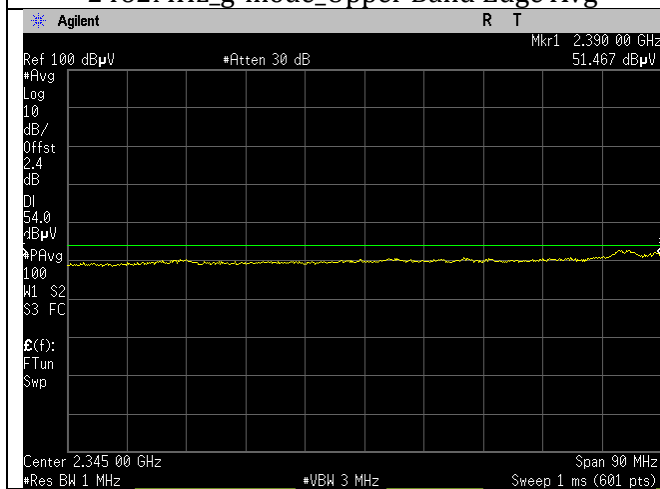
2462MHz\_b-mode\_Upper Band Edge Peak



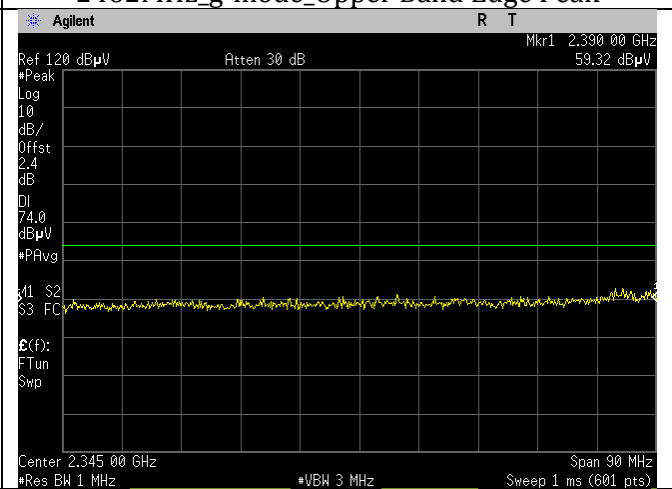
2462MHz\_g-mode\_Upper Band Edge Avg



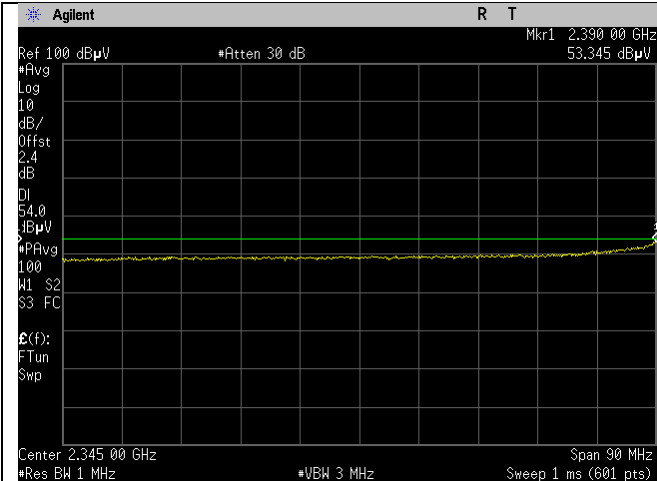
2462MHz\_g-mode\_Upper Band Edge Peak



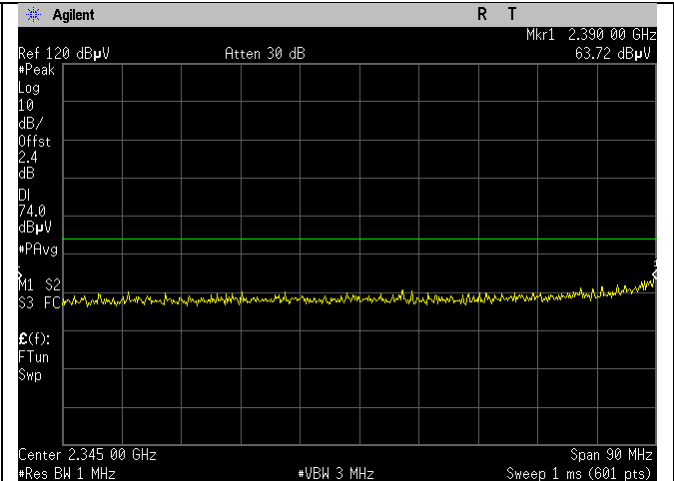
2412MHz\_b-mode\_Lower Band Edge Avg



2412MHz\_b-mode\_Lower Band Edge Peak



2412MHz\_g-mode\_Lower Band Edge Avg



2412MHz\_g-mode\_Lower Band Edge Peak