

4.4 Out-of-Band Conducted Emissions  
FCC 15.247(d)

4.4.1 Requirement

In any 100 kHz bandwidths outside the EUT pass-band, the RF power shall be at least 20dB (peak) or 30 dB (average) below that of the maximum in-band 100 kHz emissions.

4.4.2 Procedure

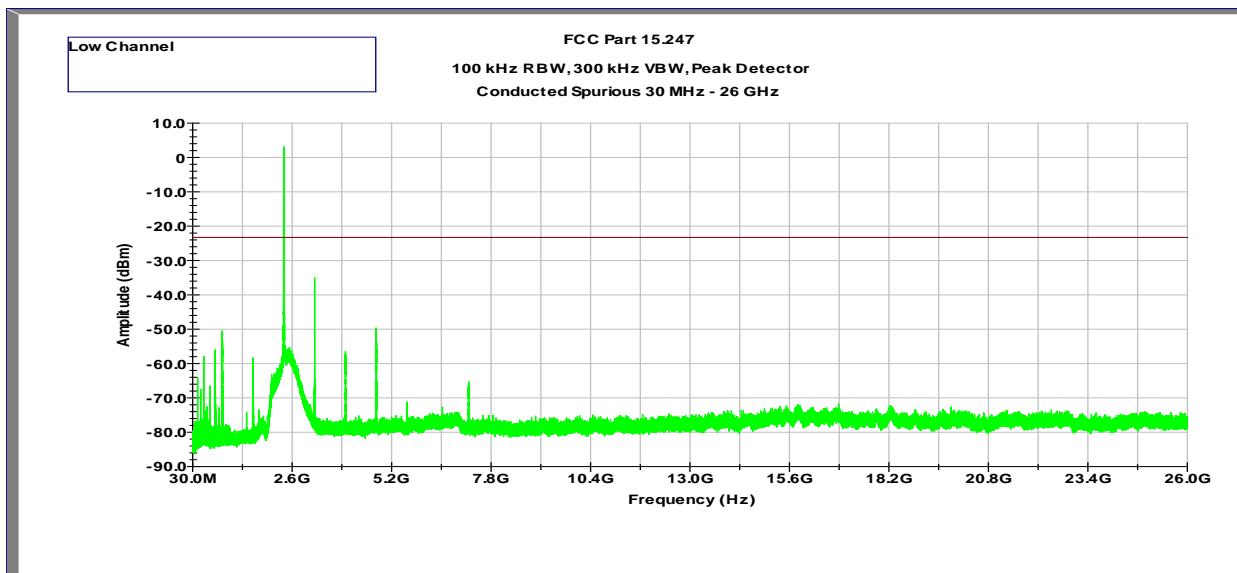
A spectrum analyzer was connected to the antenna port of the transmitter. Analyzer Resolution Bandwidth was set to 100 kHz. For each channel investigated, the in-band and out-of-band emission measurements were performed. The out-of-band emissions were measured from 30 MHz to 25 GHz.

4.4.3 Test Result

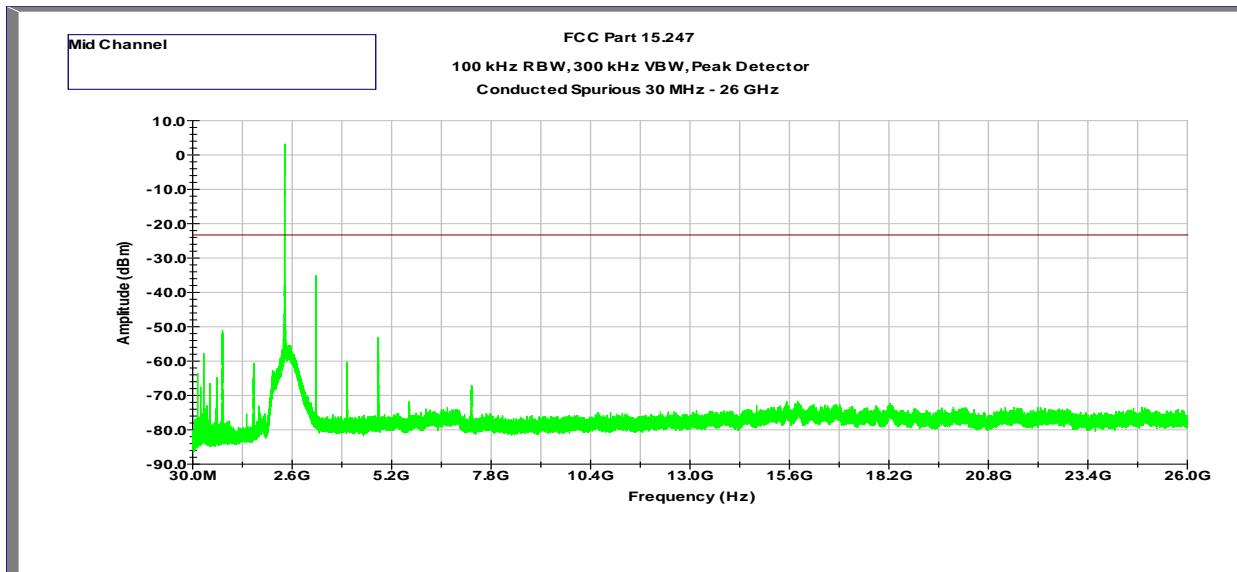
Refer to the following plots 4.1 – 4.9 for unwanted conducted emissions. The plot shows -30dB attenuation limit line.

Results	Complies
Test Date:	October 9 & 19, 2017

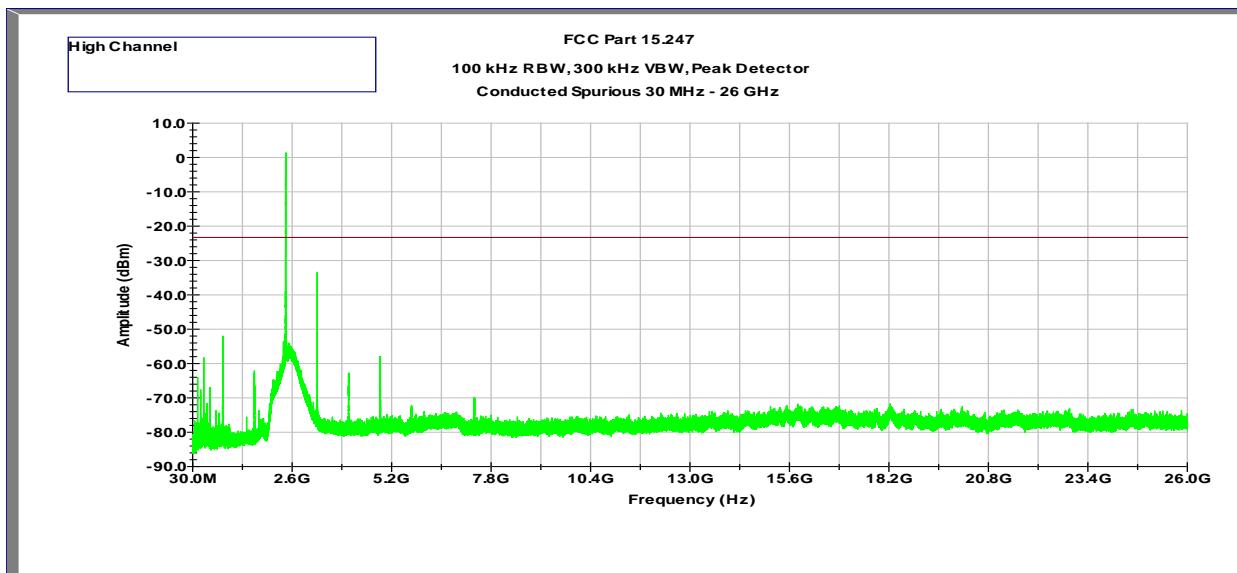
Plot 4.1  
Tx @ 2412MHz 802.11b



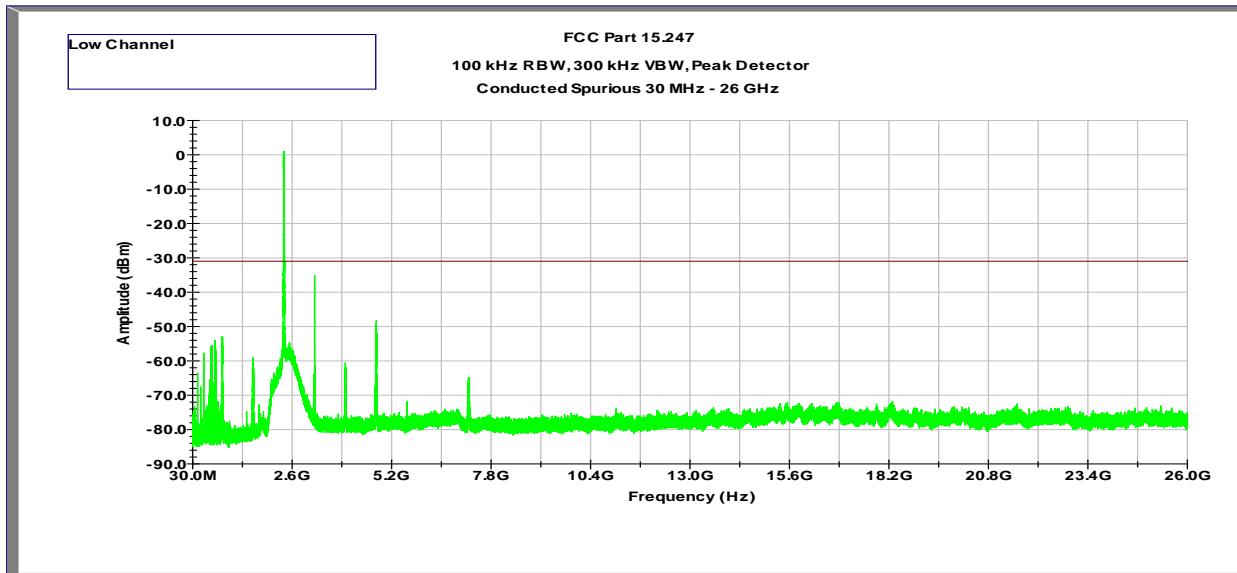
Plot 4.2  
Tx @ 2437MHz 802.11b



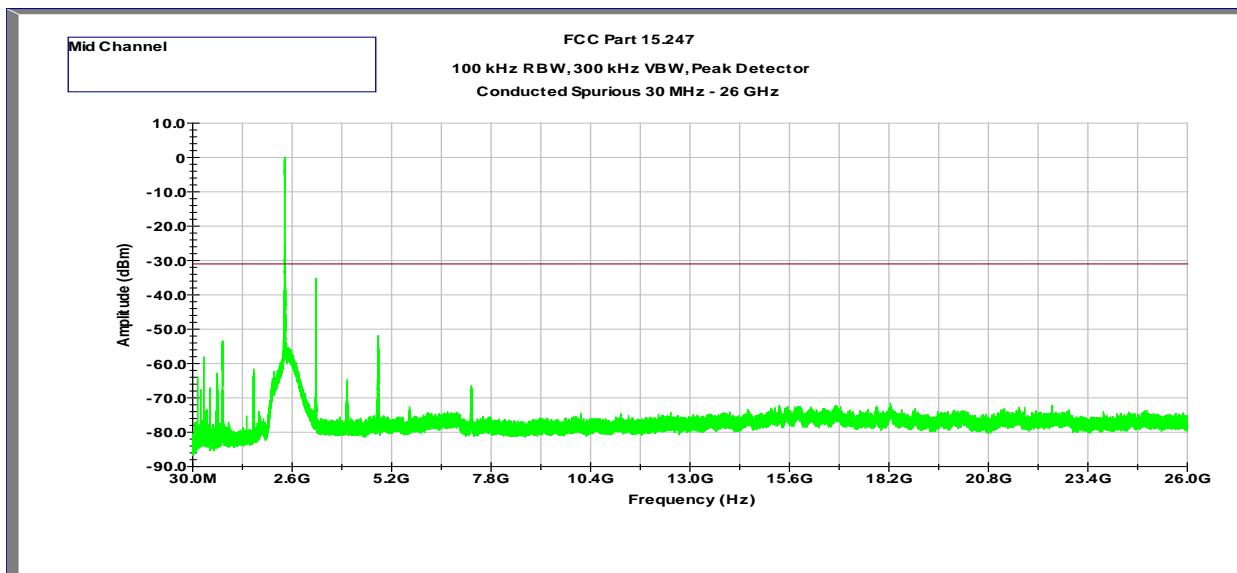
Plot 4.3  
Tx @ 2462MHz 802.11b



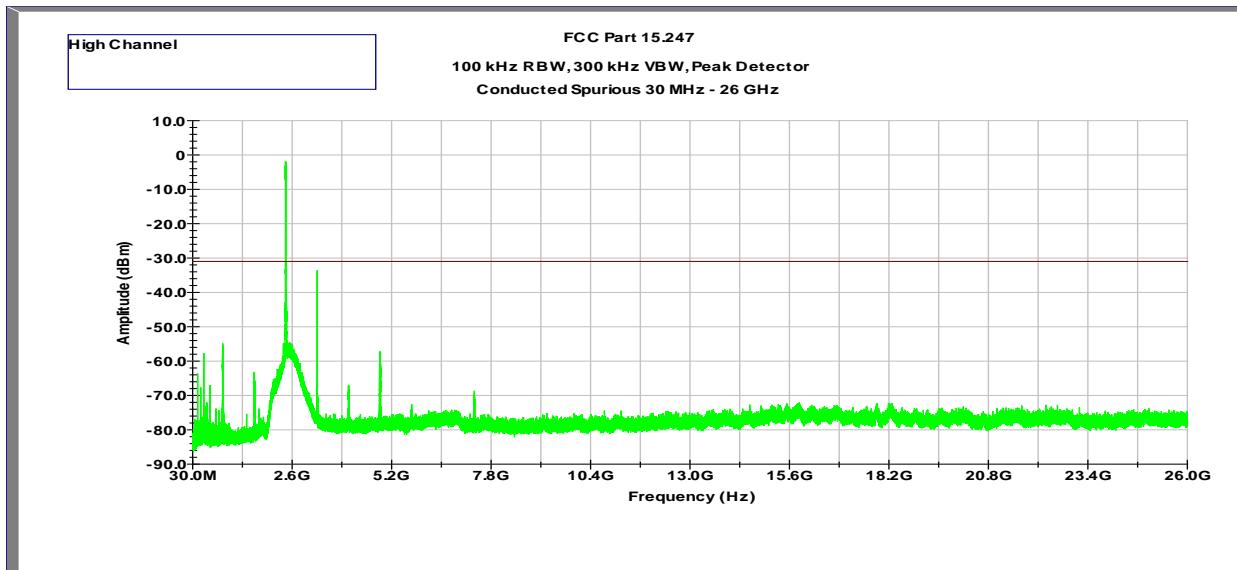
Plot 4.4  
Tx @ 2412MHz 802.11g



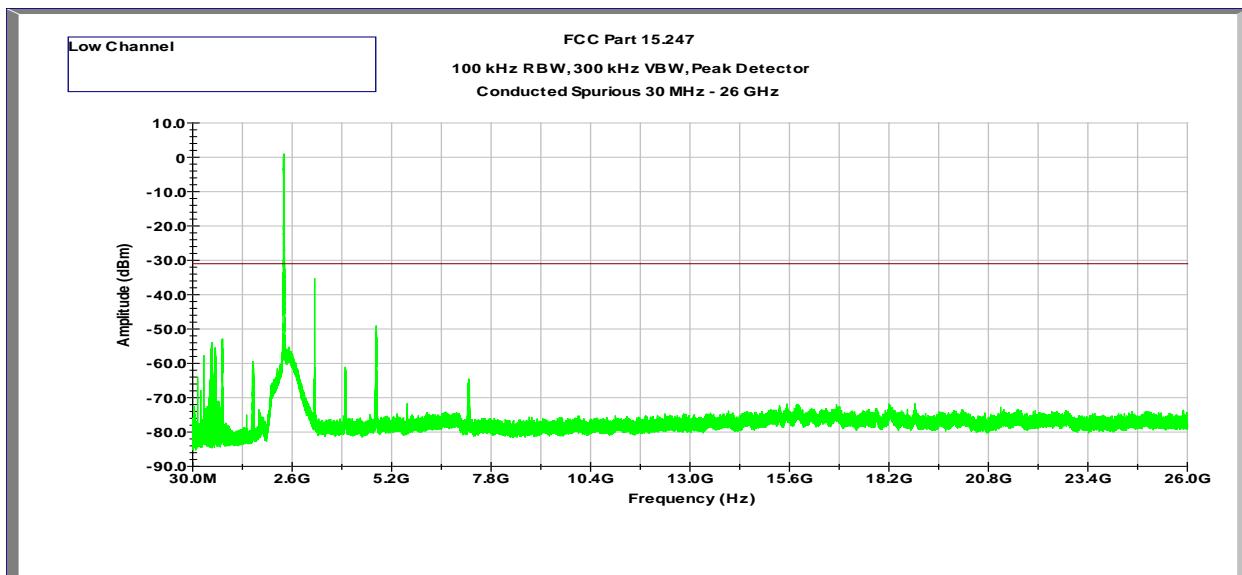
Plot 4.5  
Tx @ 2437MHz 802.11g



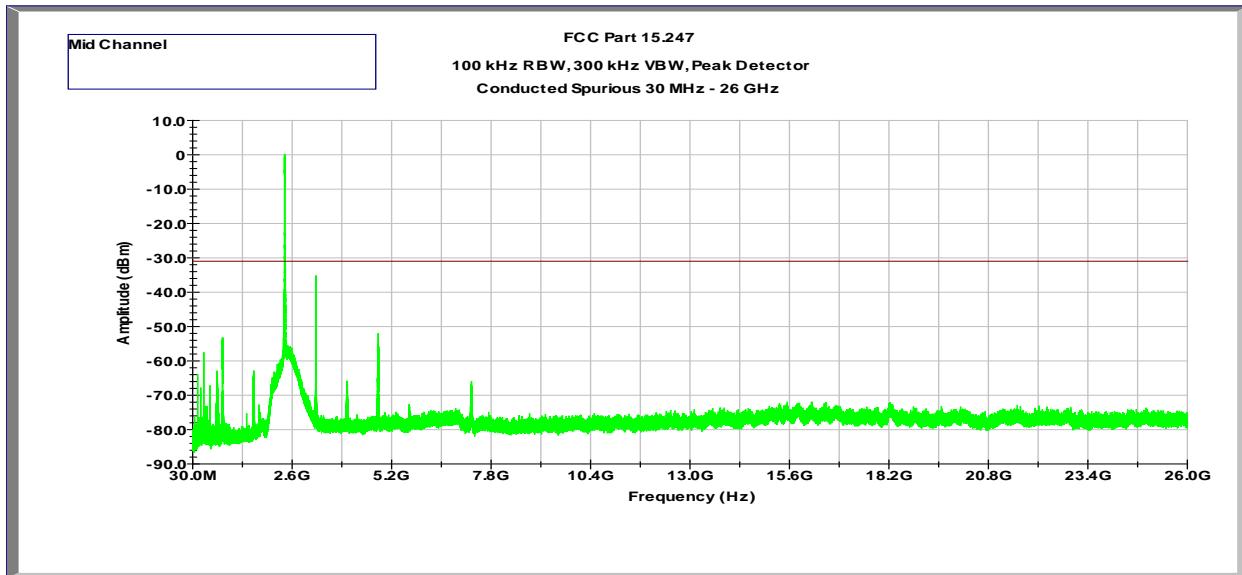
Plot 4.6  
Tx @ 2462MHz 802.11g



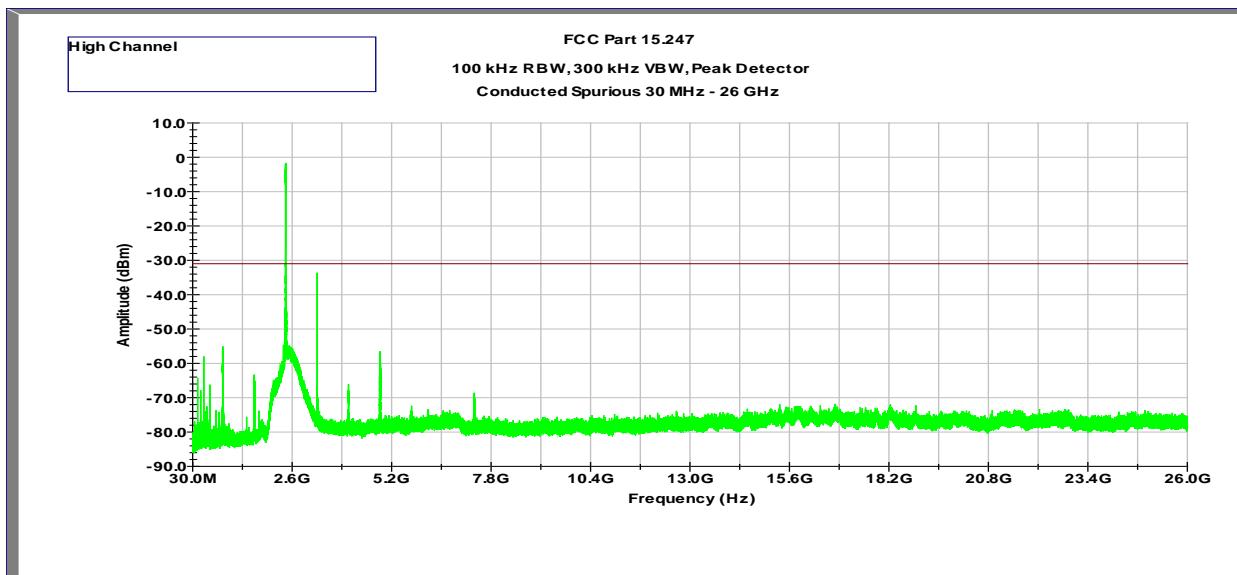
Plot 4.7  
**Tx @ 2412MHz 802.11n HT20**



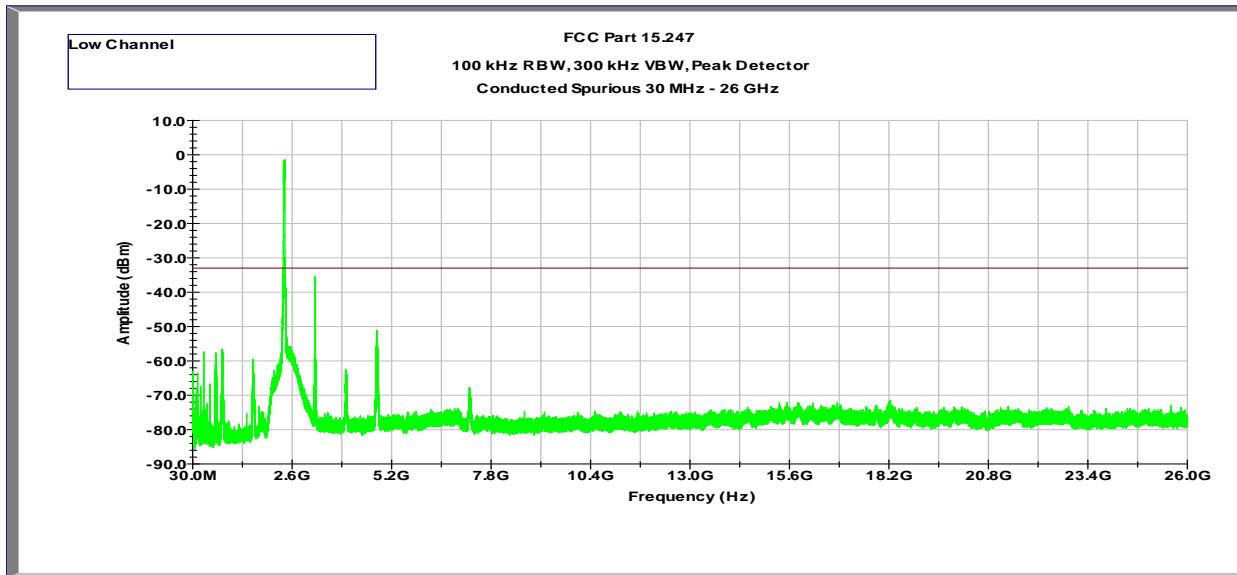
Plot 4.8  
**Tx @ 2437MHz 802.11n HT20**



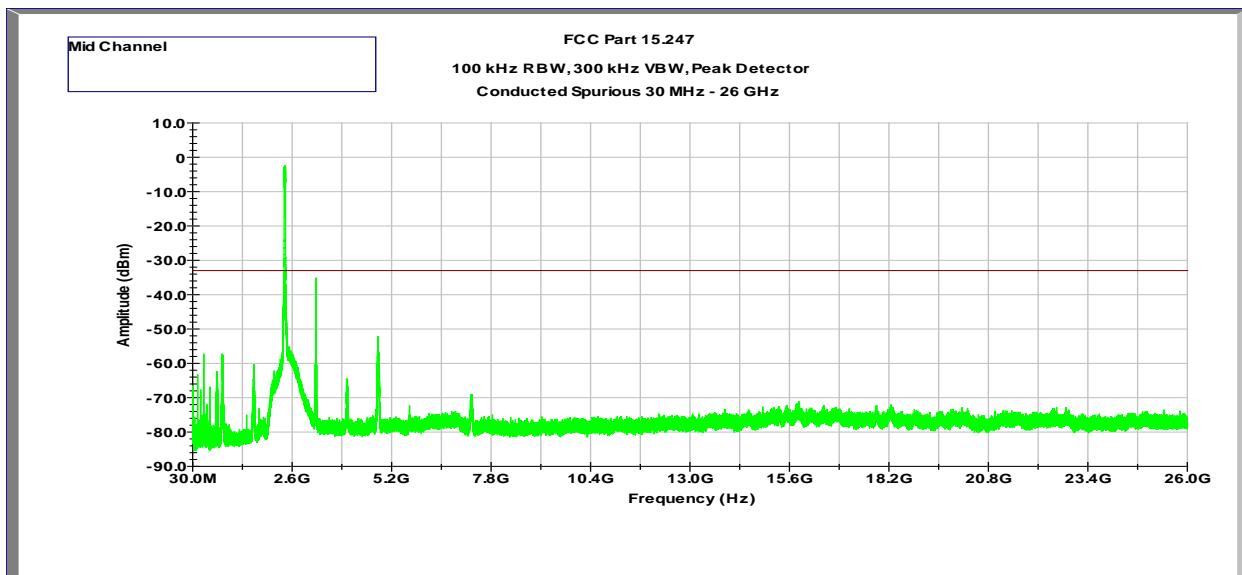
Plot 4.9  
**Tx @ 2462MHz 802.11n HT20**



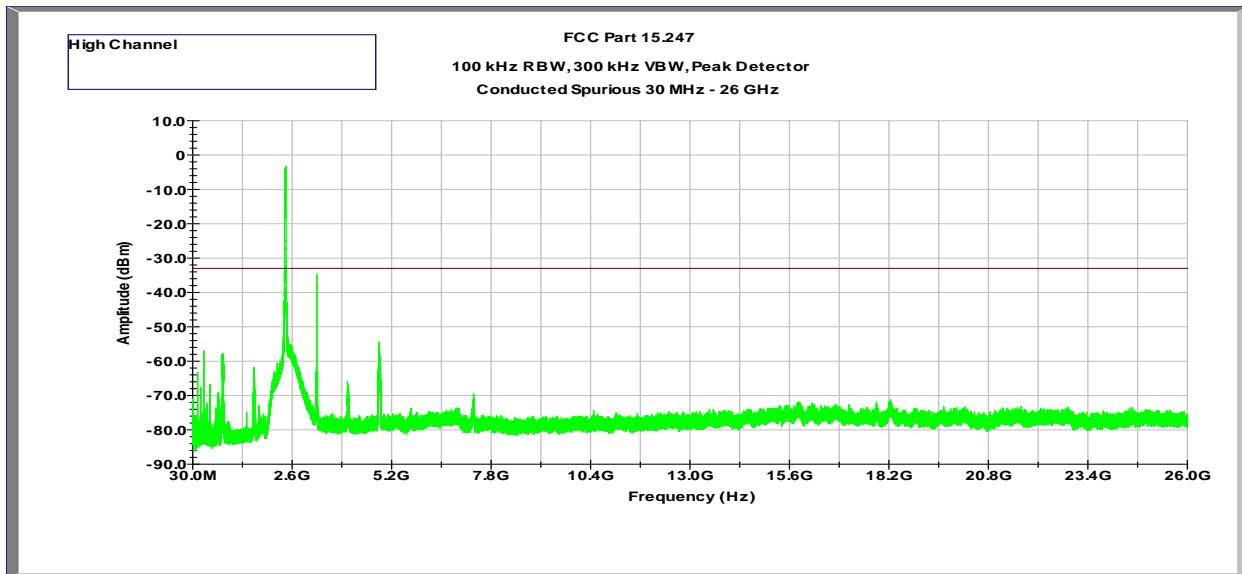
Plot 4.10  
**Tx @ 2422MHz 802.11n HT40**

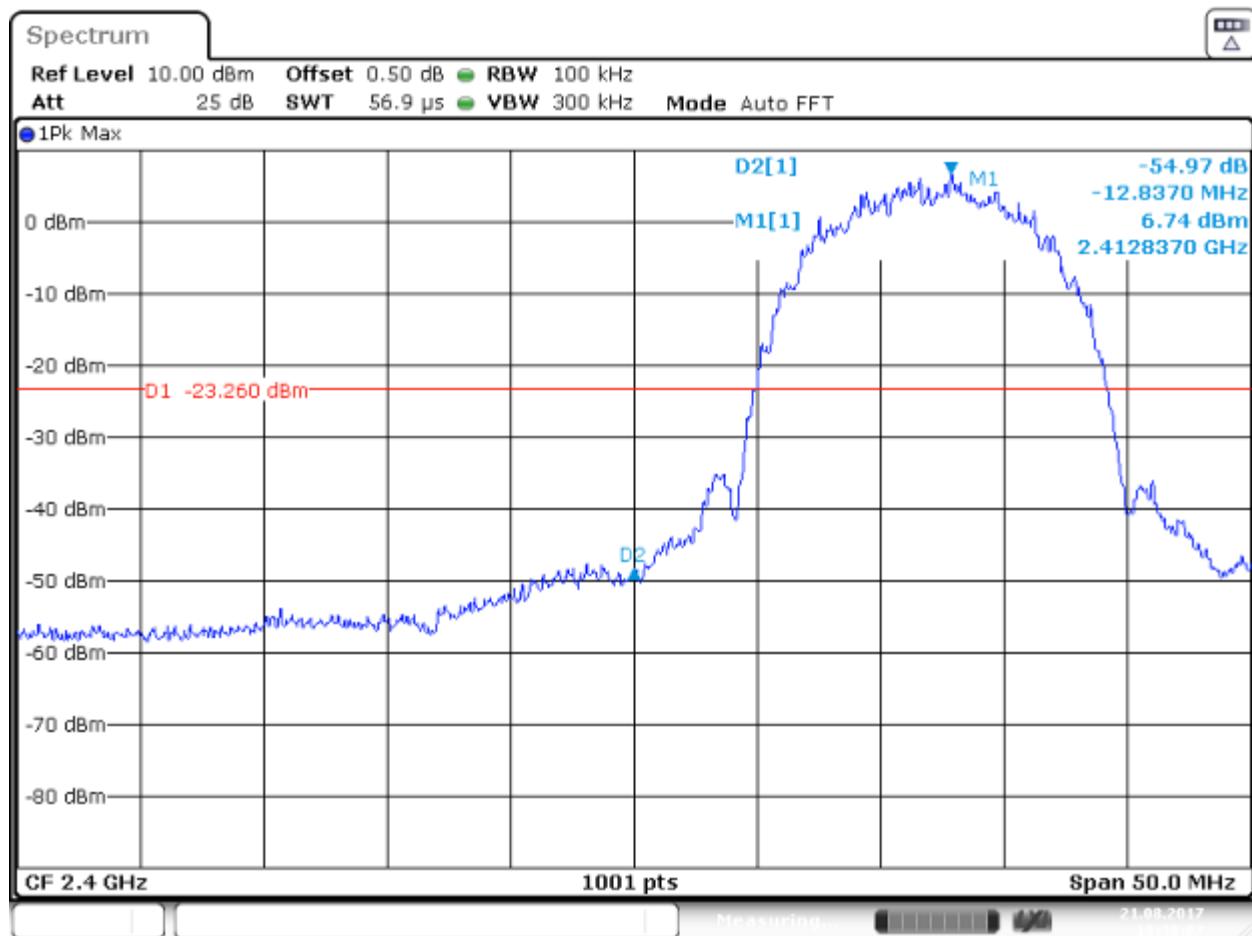


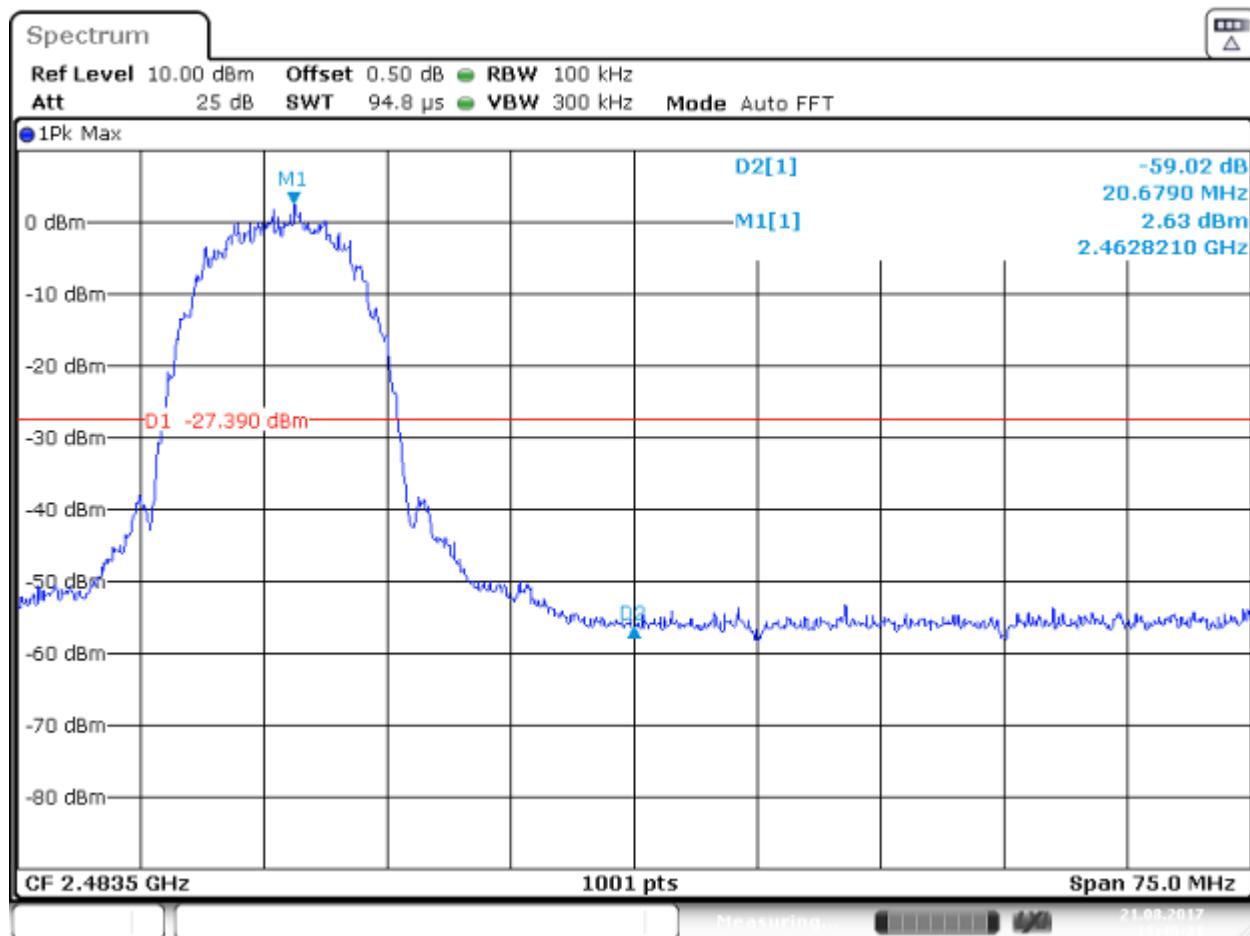
Plot 4.11  
Tx @ 2437MHz 802.11n HT40

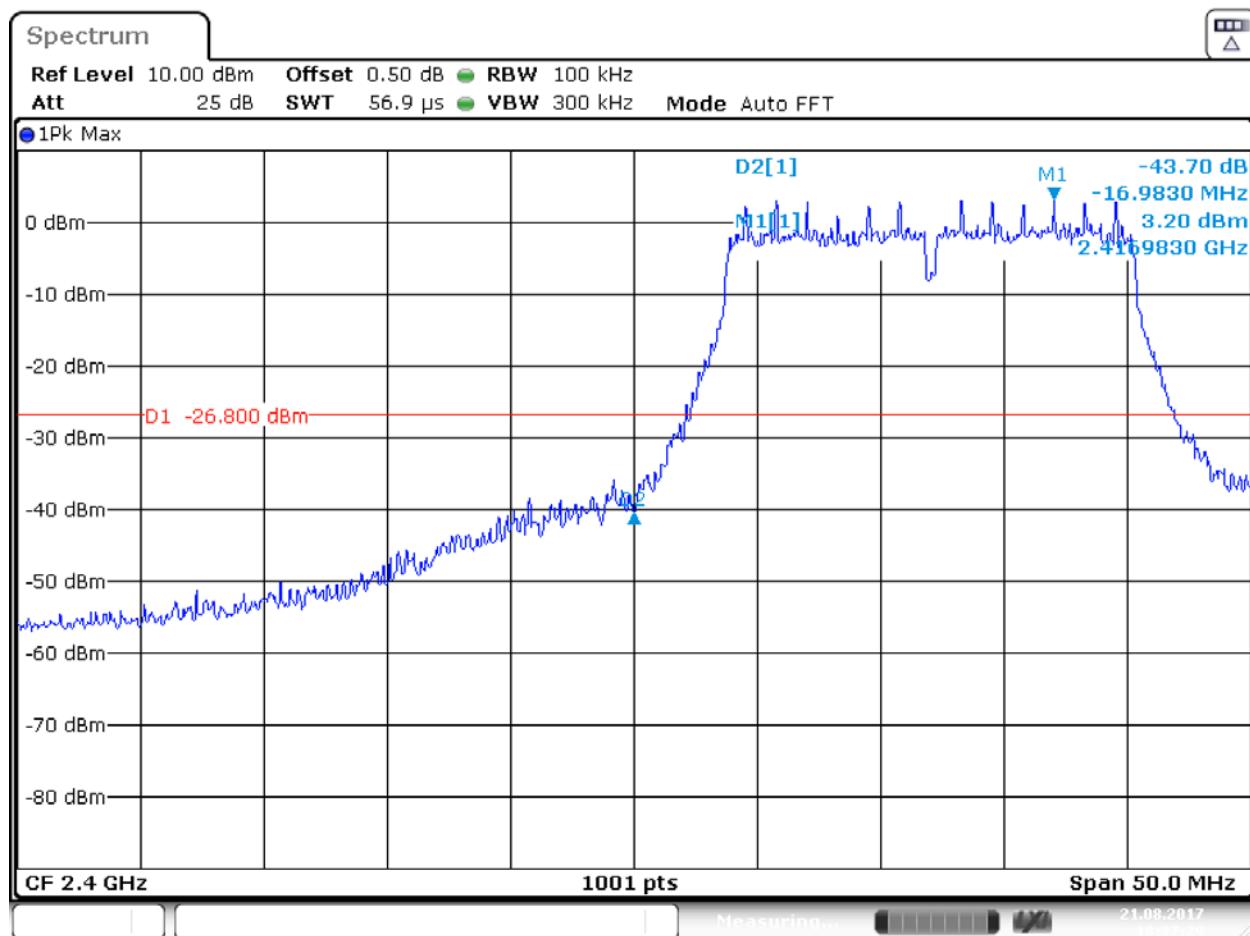


Plot 4.12  
Tx @ 2452MHz 802.11n HT40

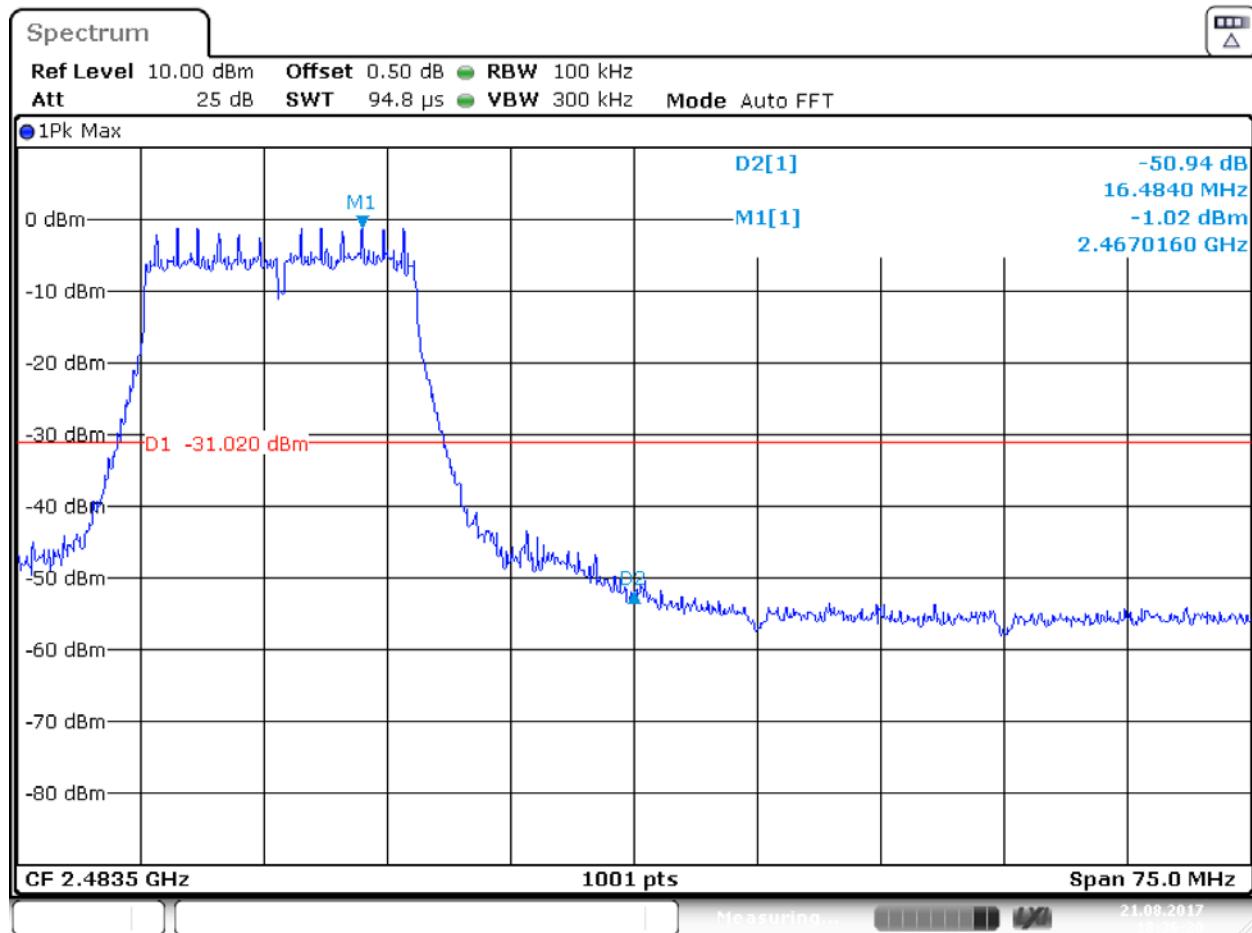


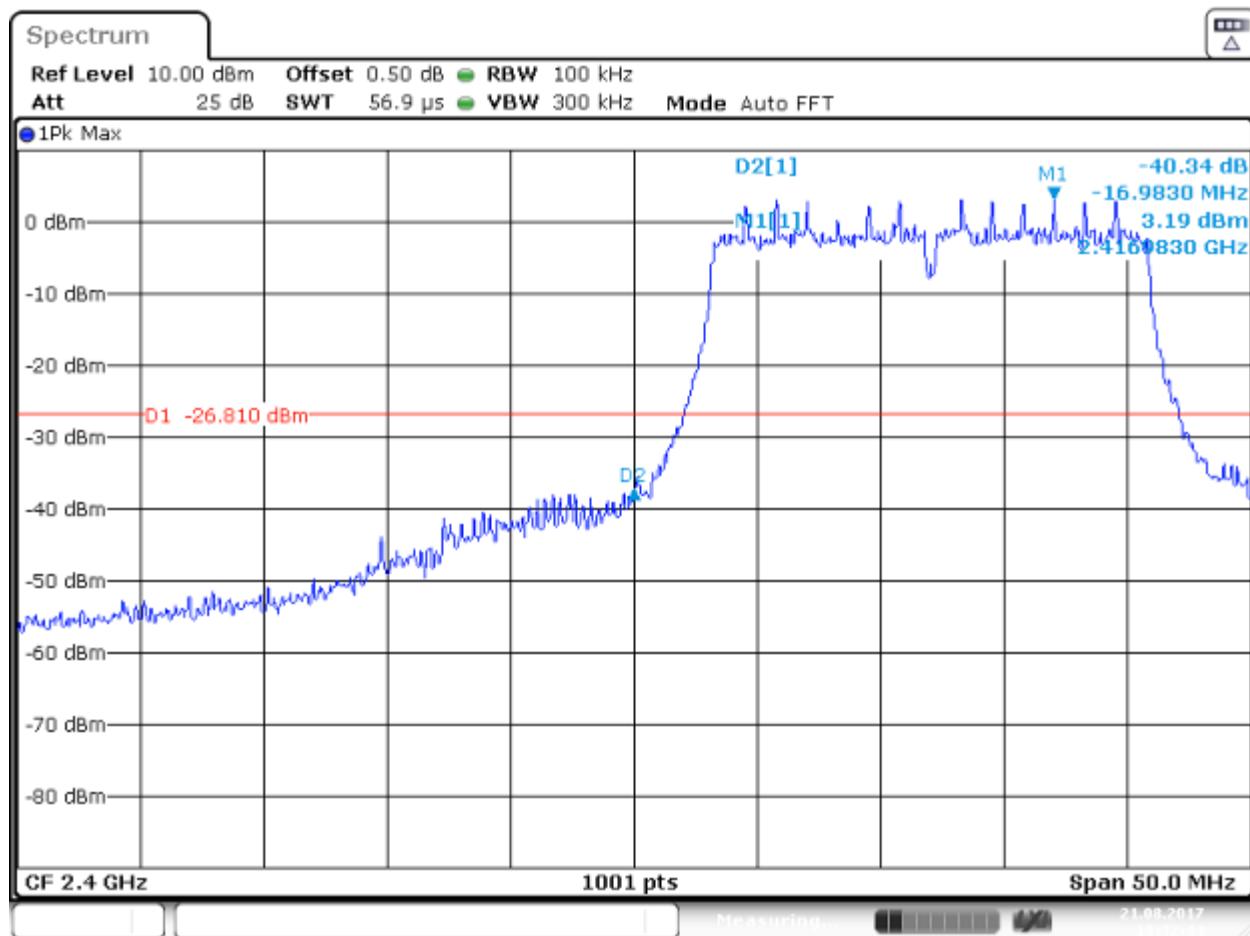
Plot 4.13  
 Conducted Band Edge, Tx @ 2412MHz 802.11b


Plot 4.14  
Conducted Band Edge, Tx @ 2462MHz 802.11b

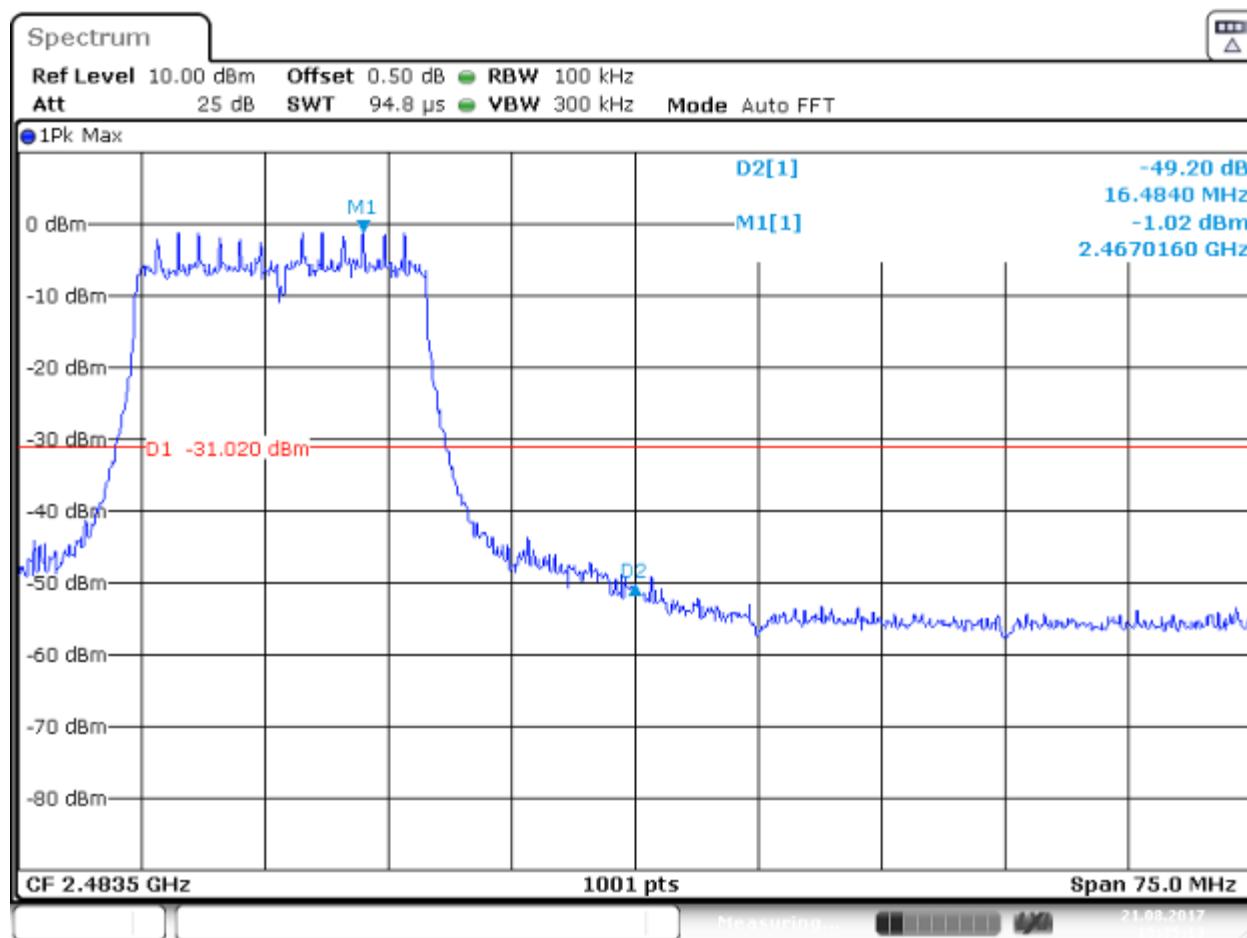
Plot 4.15  
 Conducted Band Edge, Tx @ 2412MHz 802.11g


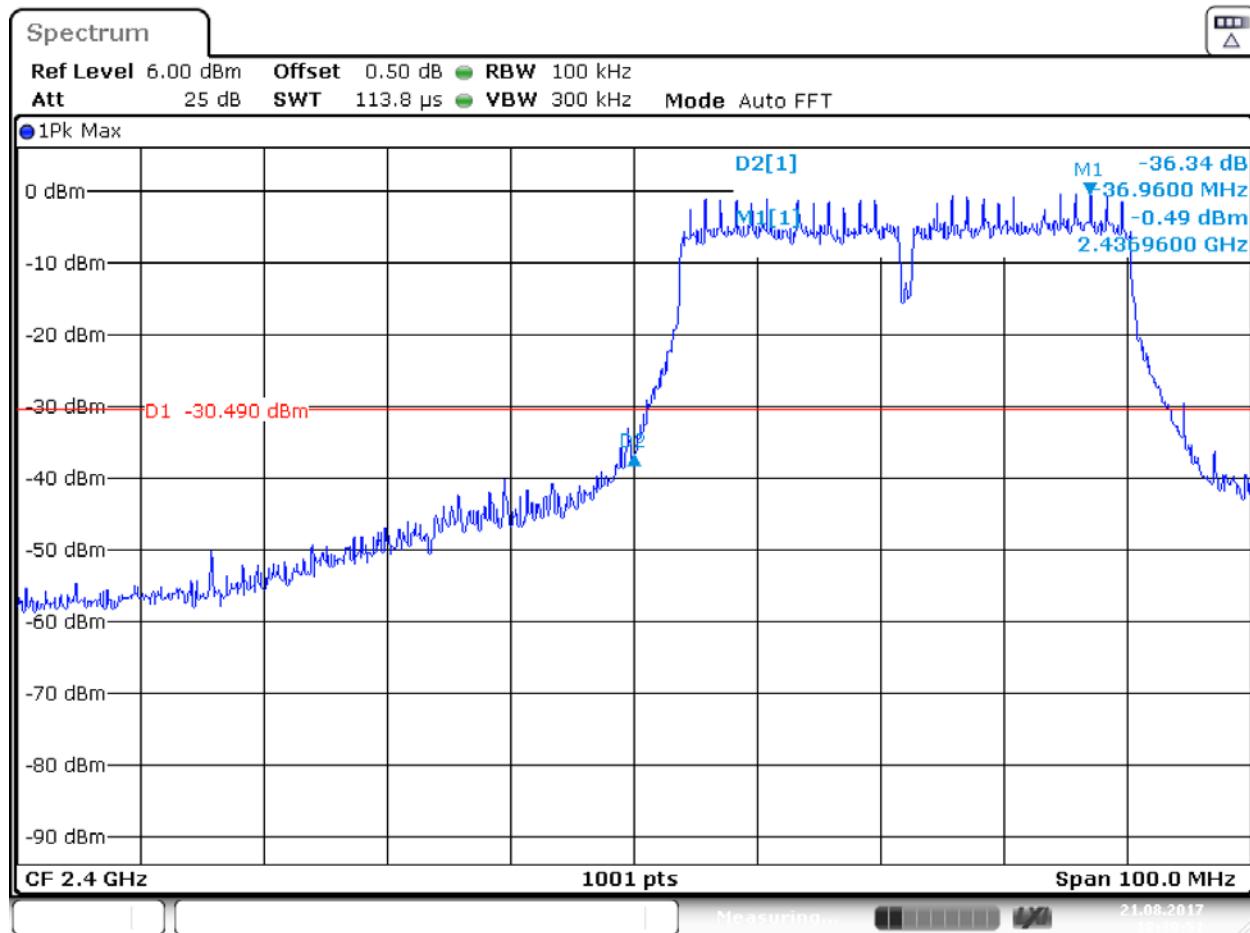
Plot 4.16  
Conducted Band Edge, Tx @ 2462MHz 802.11g



Plot 4.17  
Conducted Band Edge, Tx @ 2412MHz 802.11n HT20

Plot 4.18  
Conducted Band Edge, Tx @ 2462MHz 802.11n HT20



Plot 4.19  
 Conducted Band Edge, Tx @ 2422MHz 802.11n HT40


Plot 4.20  
 Conducted Band Edge, Tx @ 2452MHz 802.11n HT40
