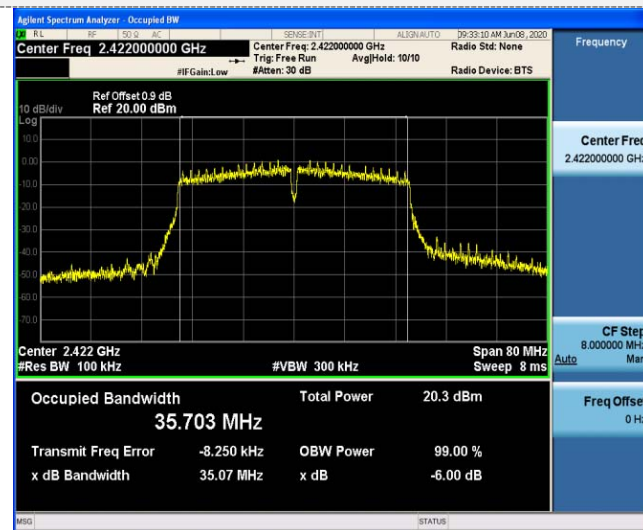
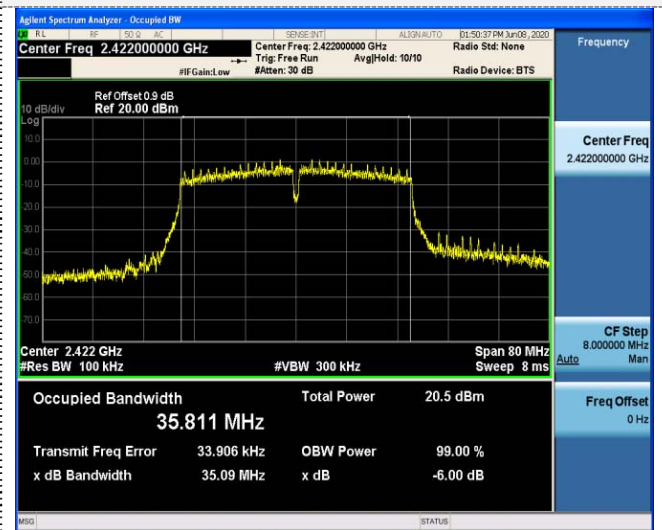


802.11n(HT40)

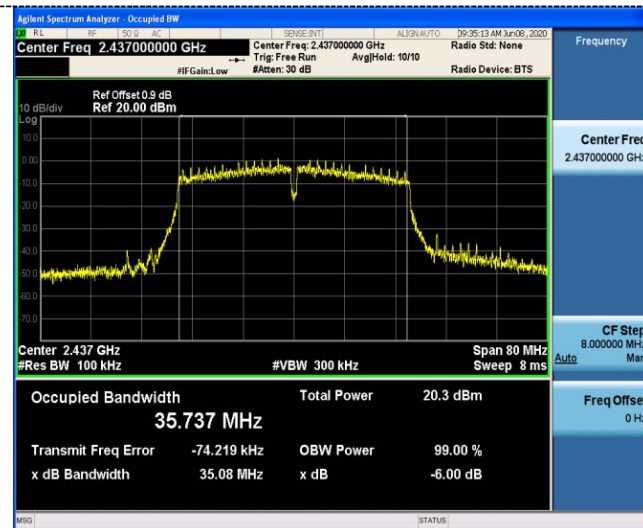
Ant1



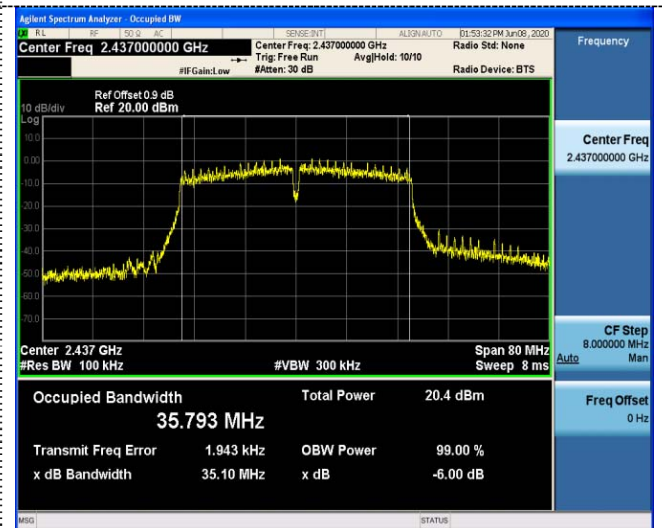
Ant2



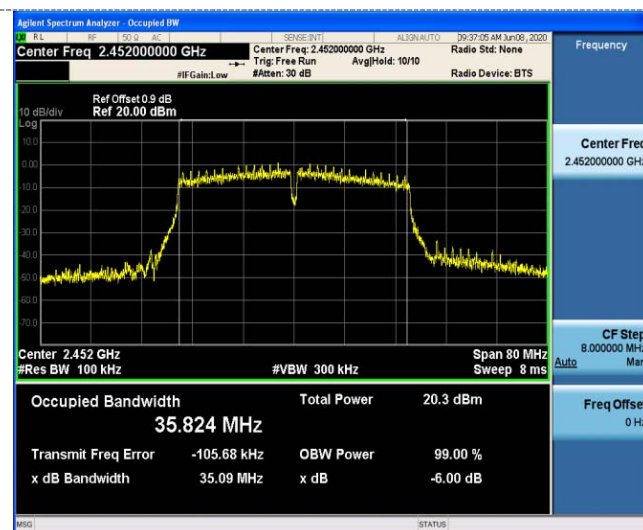
CH01



CH01



CH06



CH06



CH11



CH11



4.6 Out-of-band Emissions

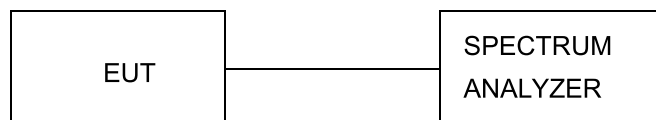
Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section (b)(3) of §15.247 and RSS 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in §15.209(a) and RSS-Gen are not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector , and max hold. Measurements utilizing these setting are made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration



Test Results

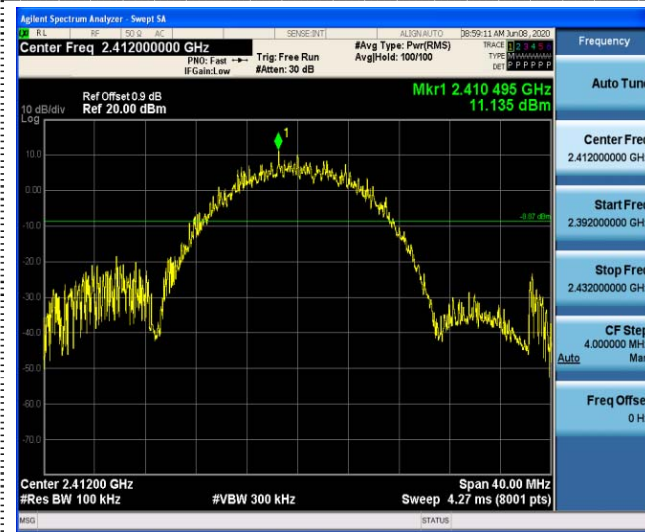
Temperature	22.8°C	Humidity	56%
Test Engineer	Moon Tan	Configurations	WLAN2.4G

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

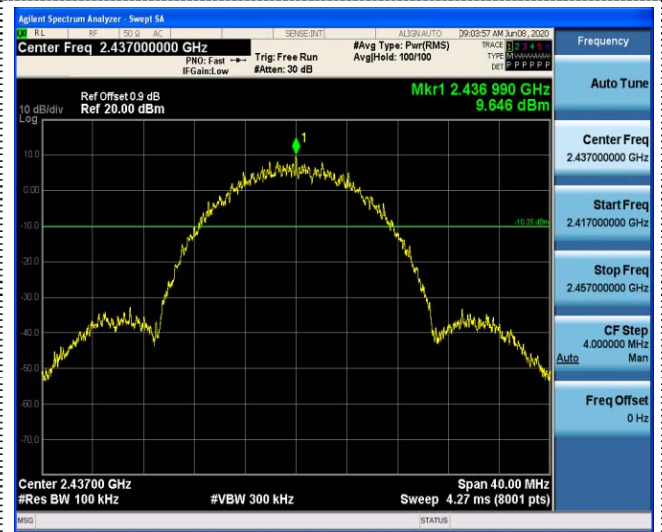
Test plot as follows:

Ant1

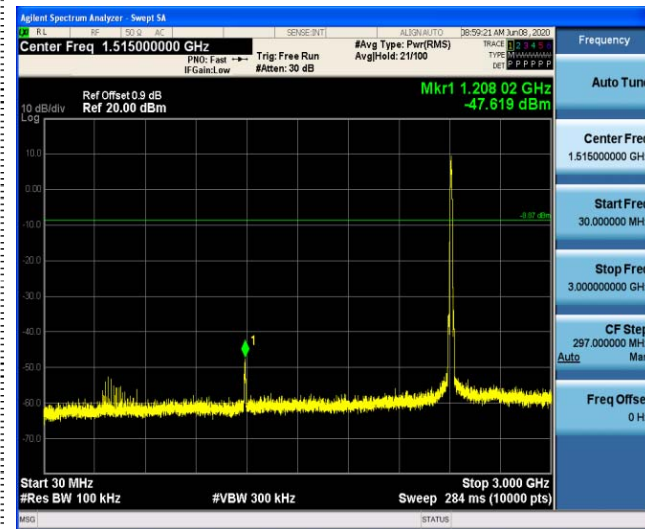
802.11b CH01



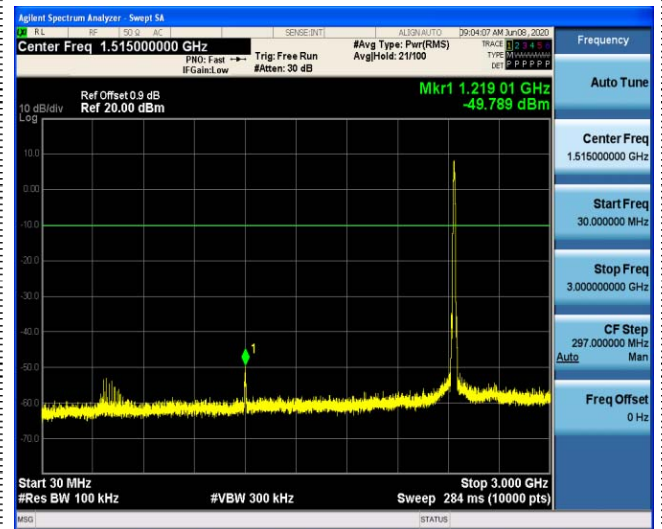
802.11b CH06



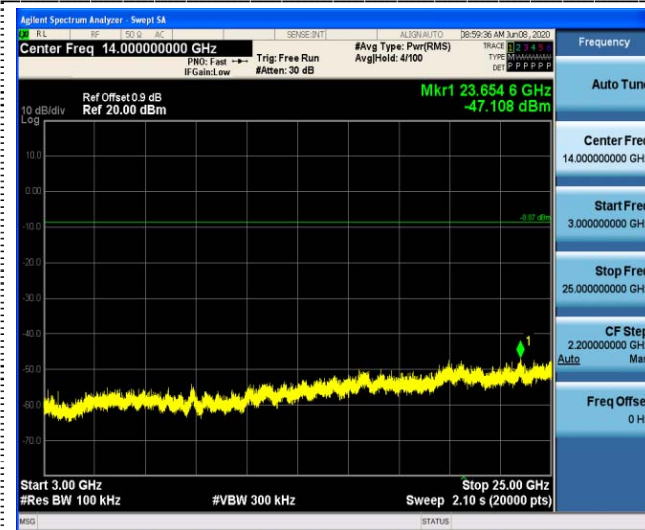
Reference



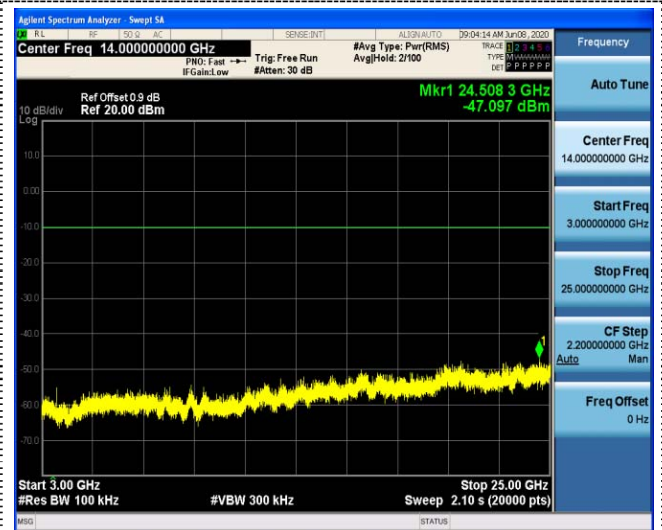
Reference



30MHz-3GHz



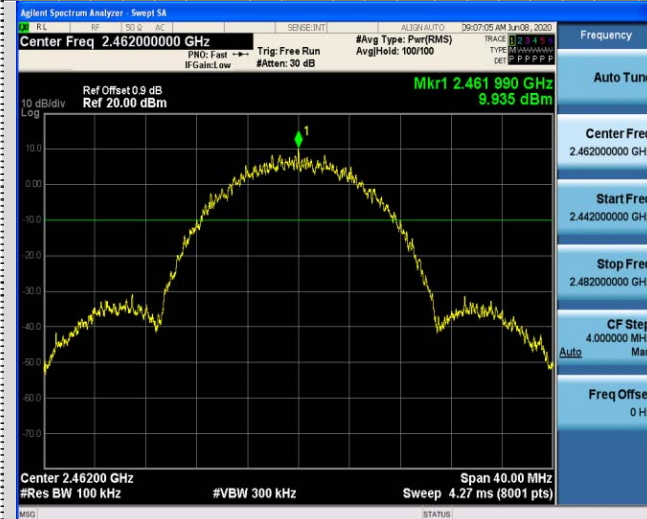
30MHz-3GHz



3GHz-25GHz

3GHz-25GHz

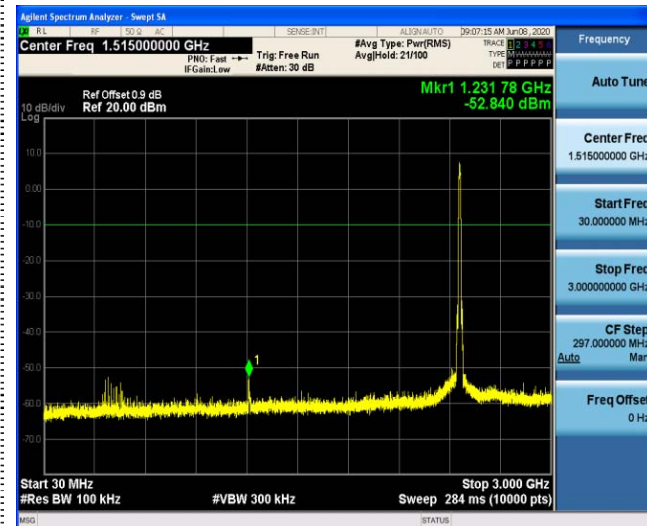
802.11b CH11



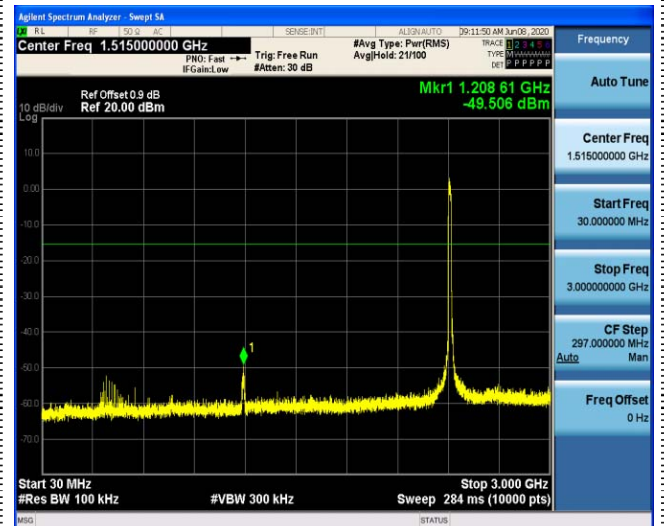
802.11g CH01



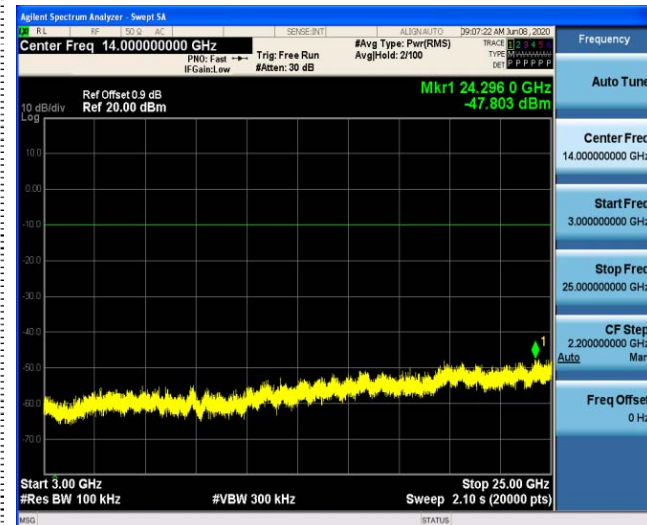
Reference



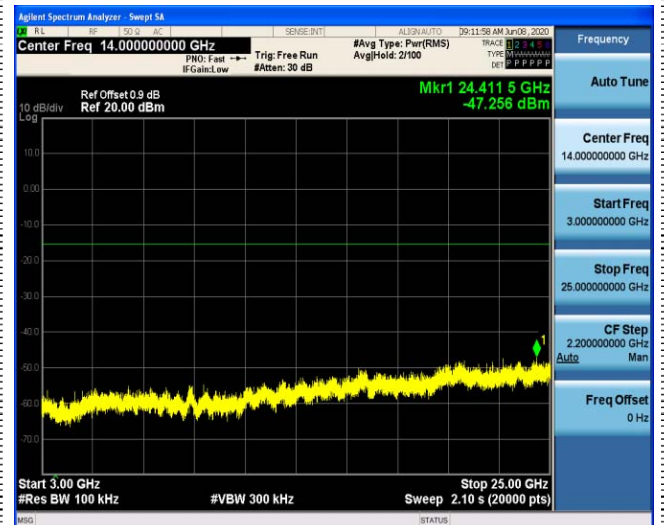
Reference



30MHz-3GHz



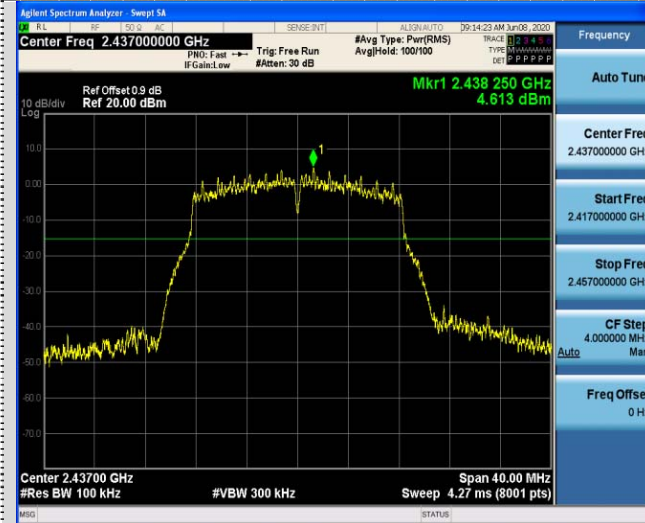
30MHz-3GHz



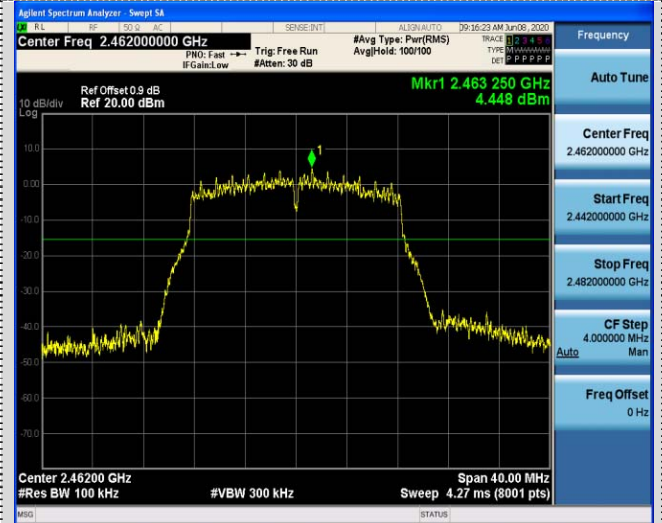
3GHz-25GHz

3GHz-25GHz

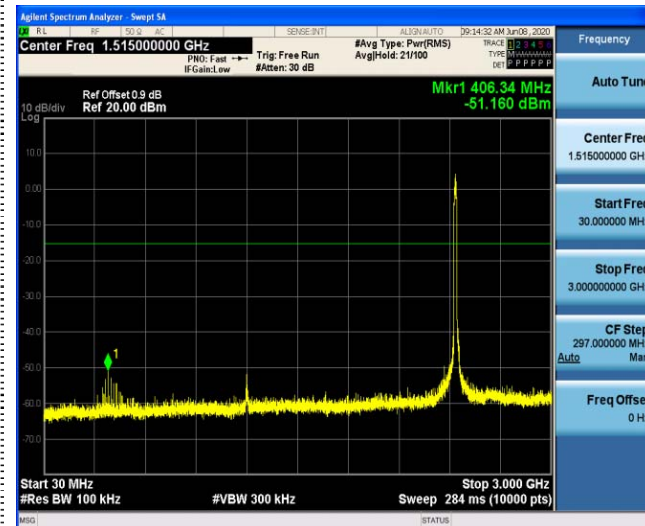
802.11g CH06



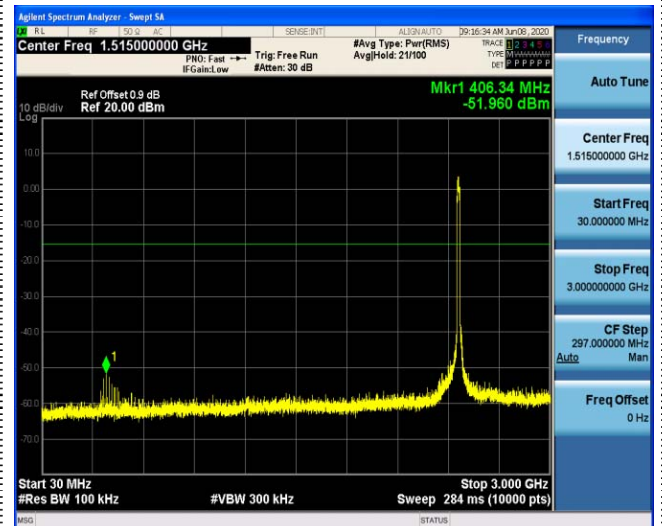
802.11g CH11



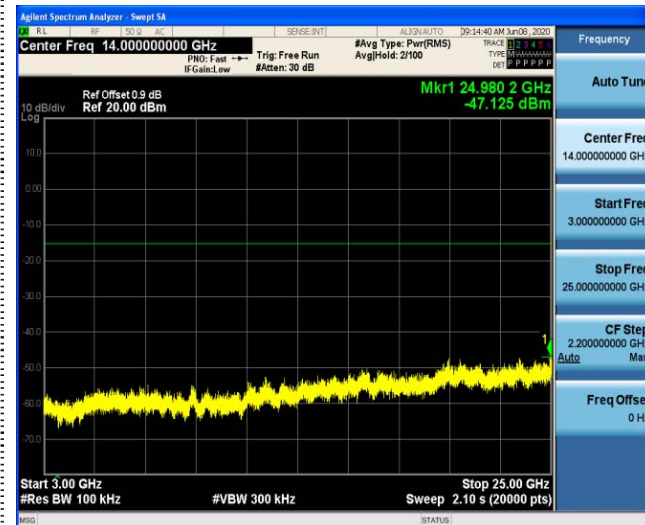
Reference



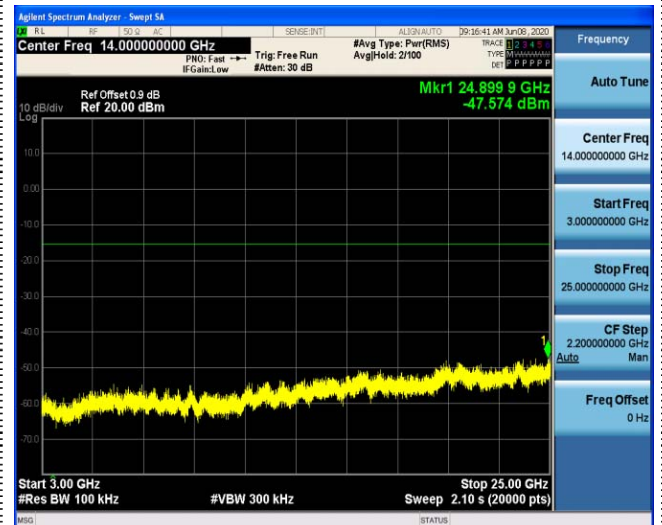
Reference



30MHz-3GHz



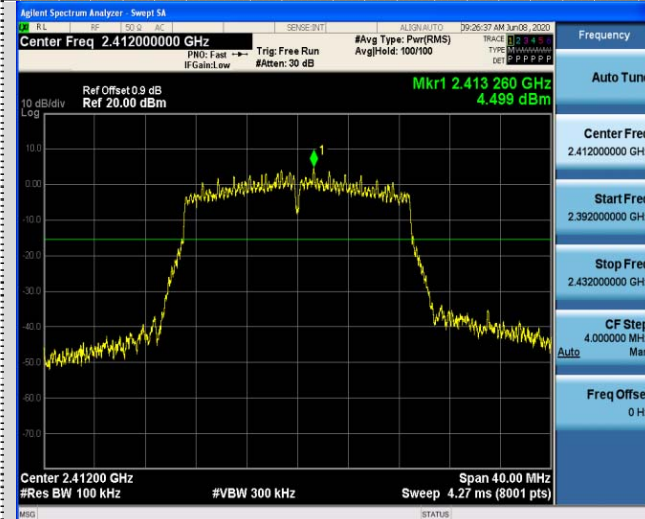
30MHz-3GHz



3GHz-25GHz

3GHz-25GHz

802.11n(HT20) CH01

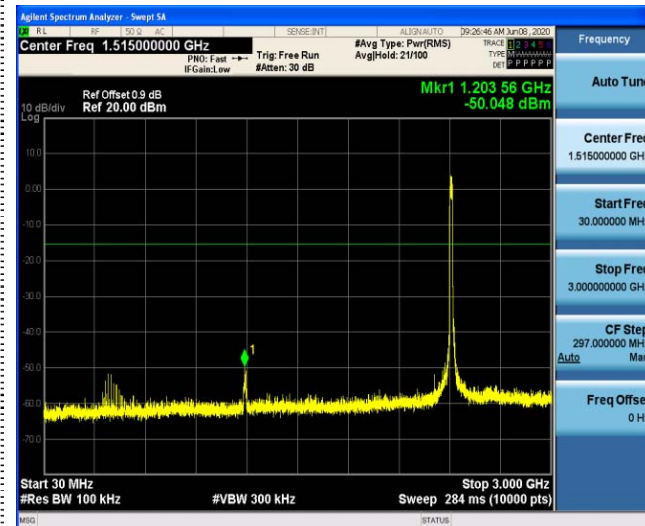


Reference

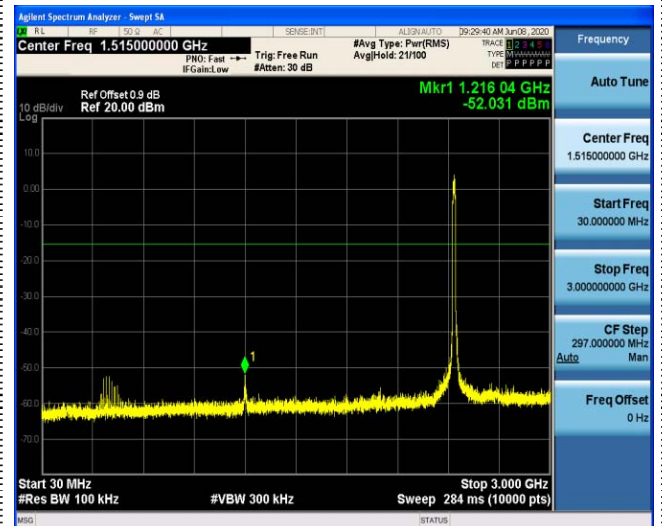
802.11n(HT20) CH06



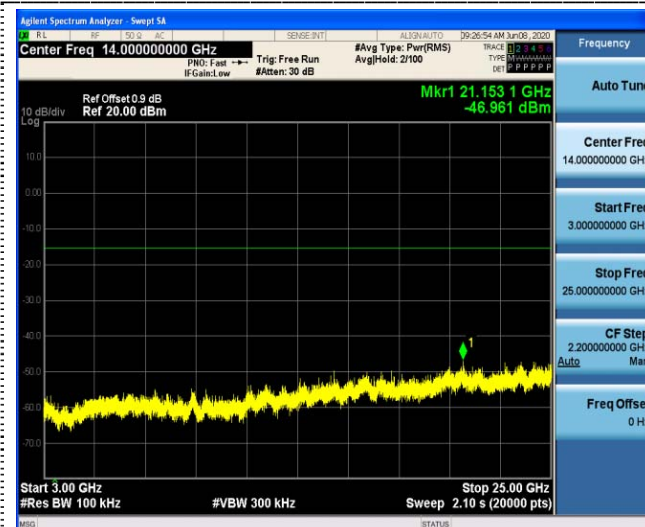
Reference



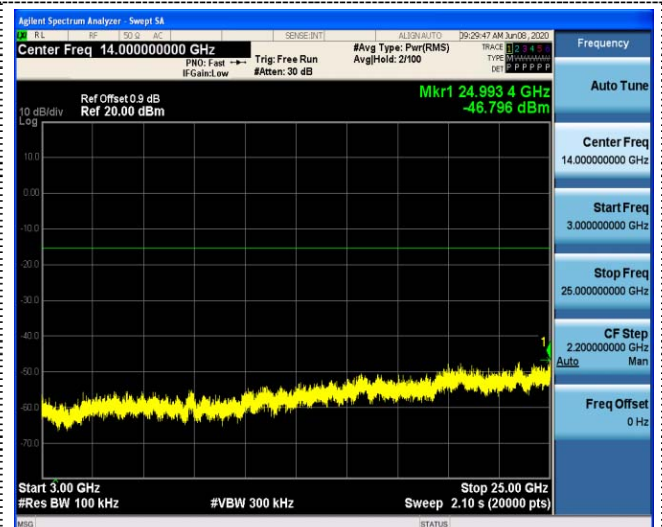
30MHz-3GHz



30MHz-3GHz

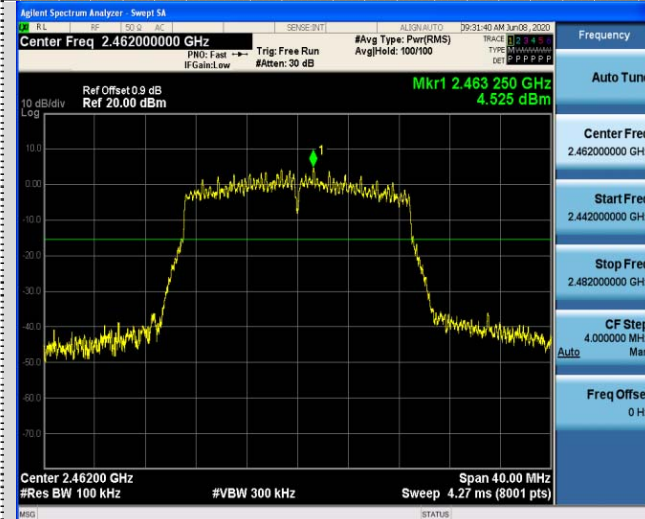


3GHz-25GHz

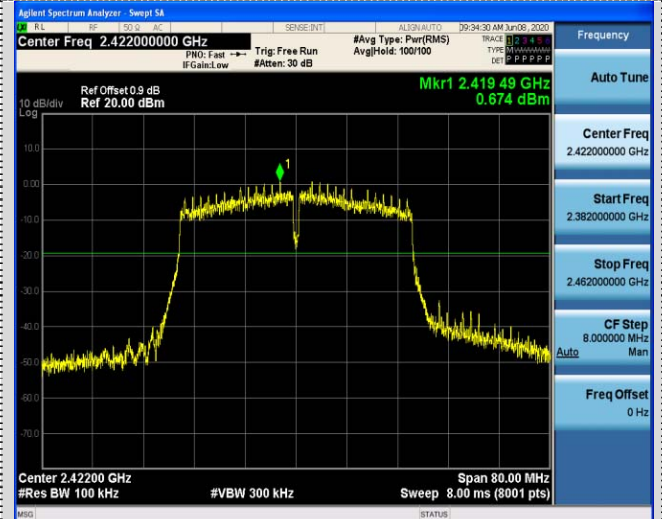


3GHz-25GHz

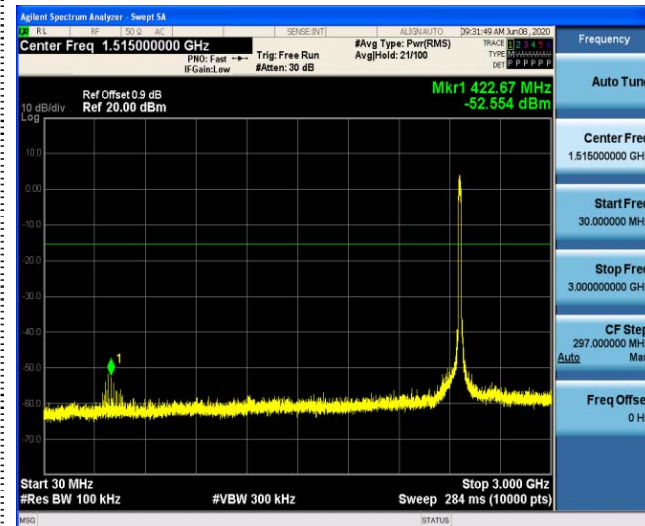
802.11n(HT20) CH11



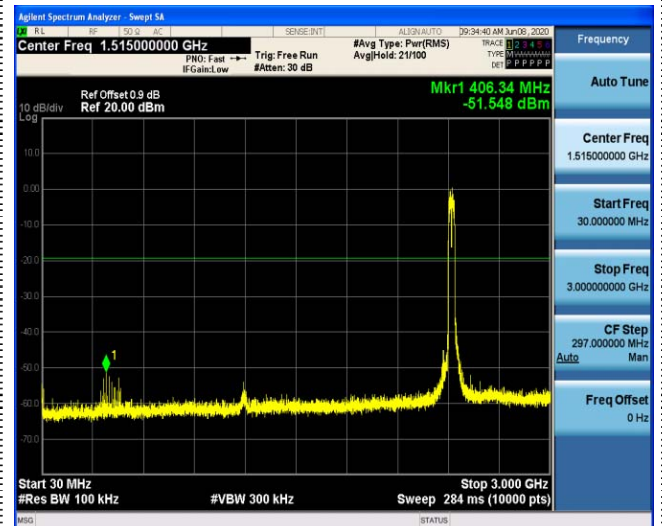
802.11n(HT40) CH03



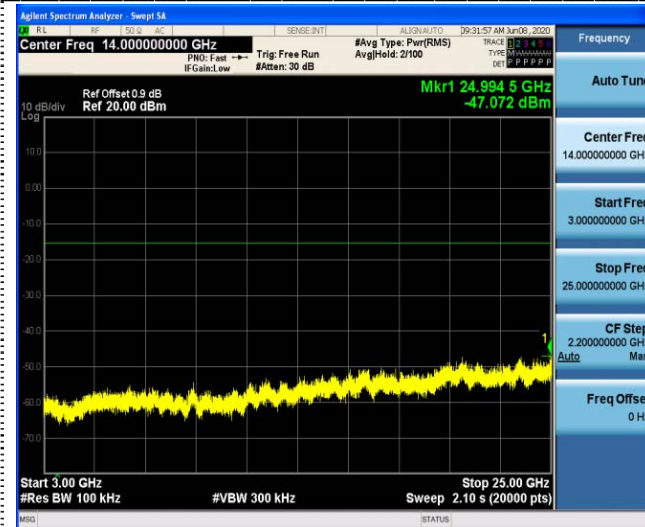
Reference



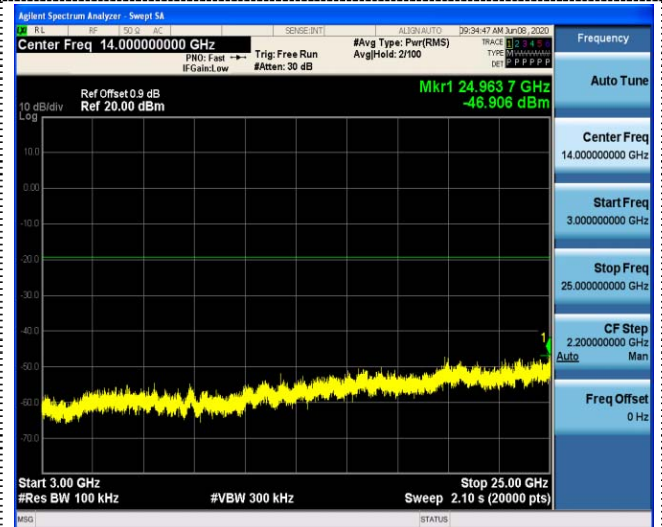
Reference



30MHz-3GHz



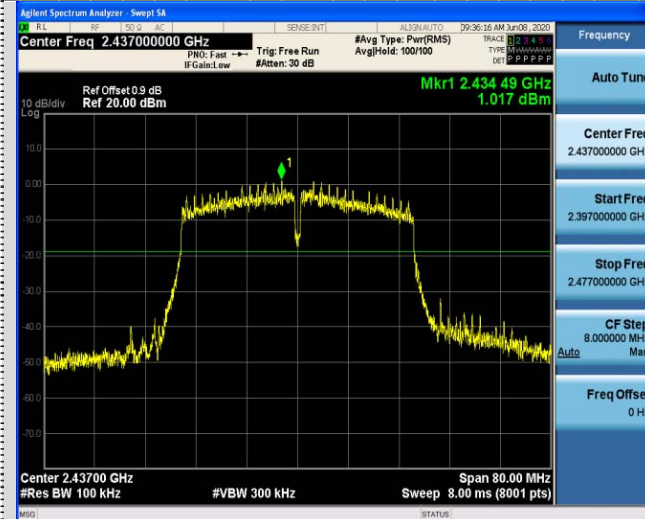
30MHz-3GHz



3GHz-25GHz

3GHz-25GHz

802.11n(HT40) CH06

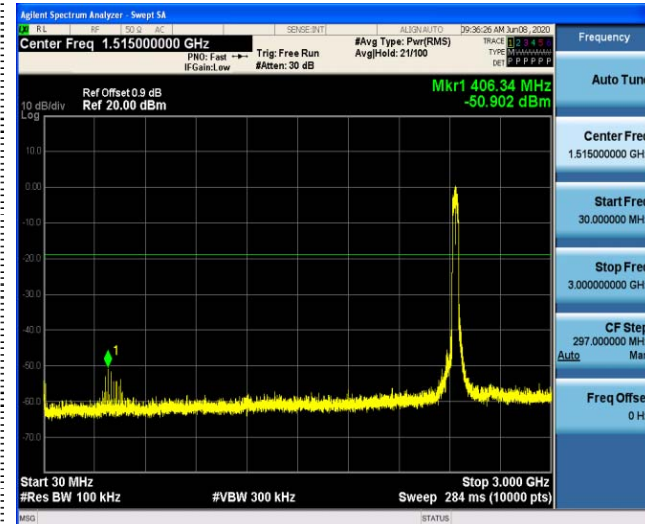


Reference

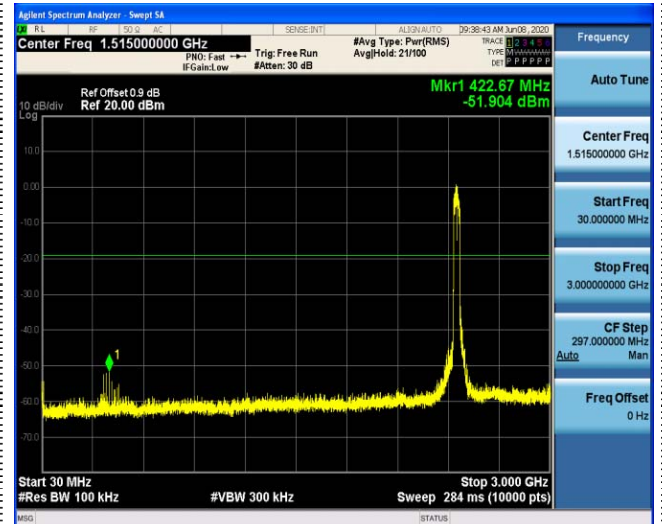
802.11n(HT40) CH09



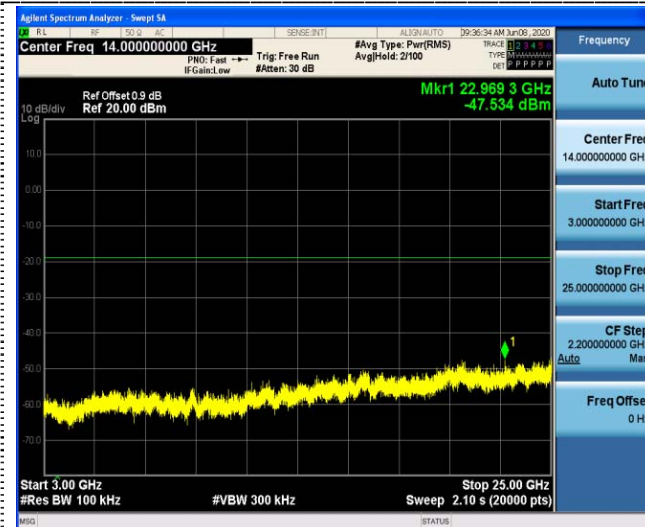
Reference



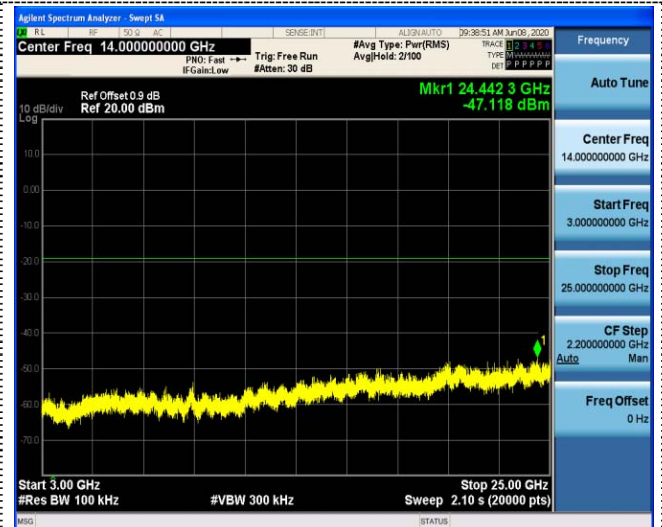
30MHz-3GHz



30MHz-3GHz

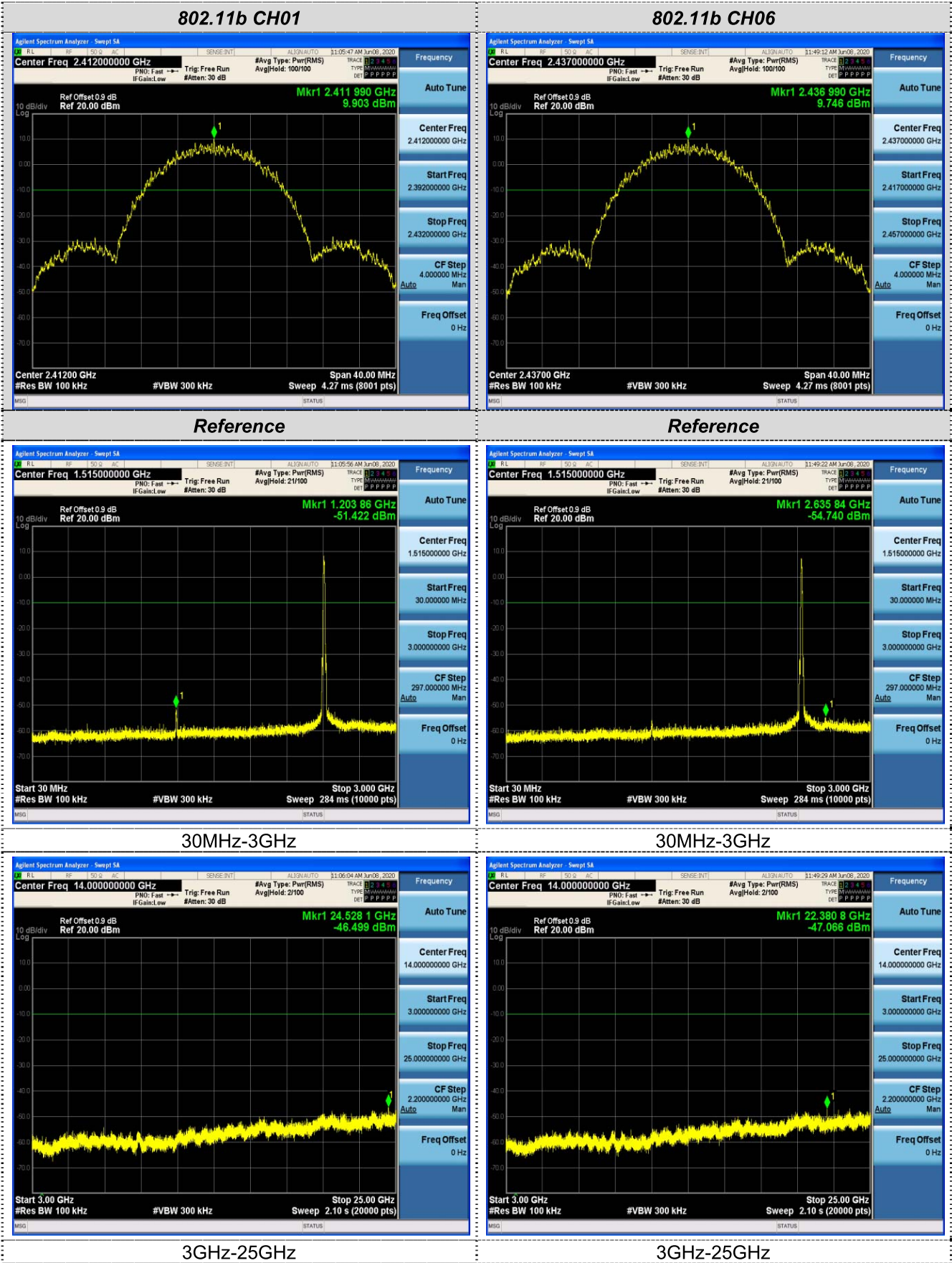


3GHz-25GHz

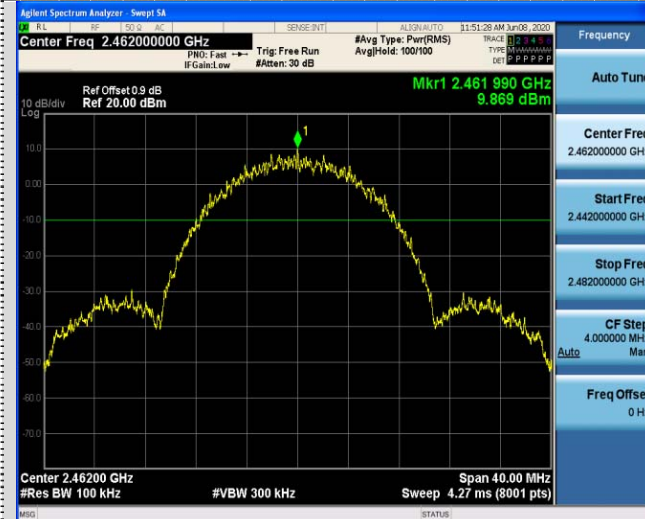


3GHz-25GHz

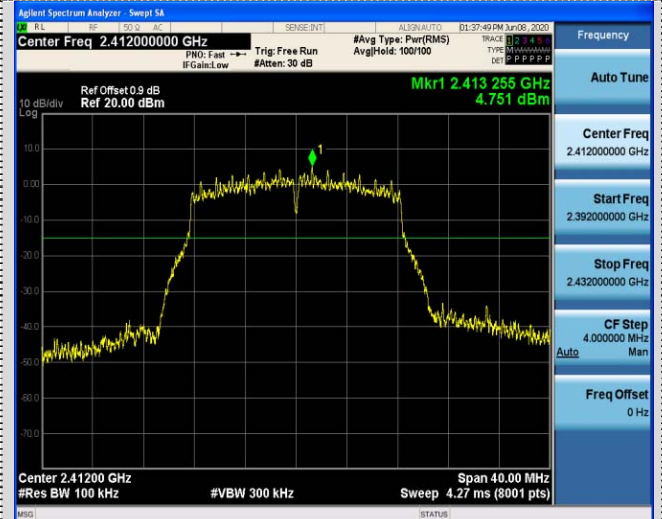
Ant2



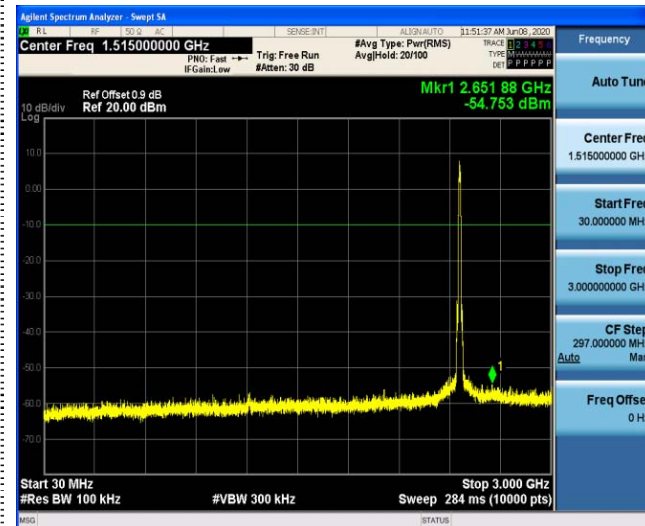
802.11b CH11



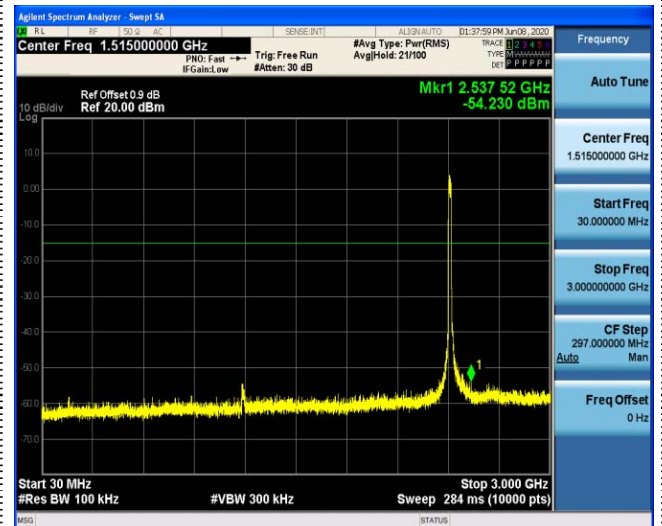
802.11g CH01



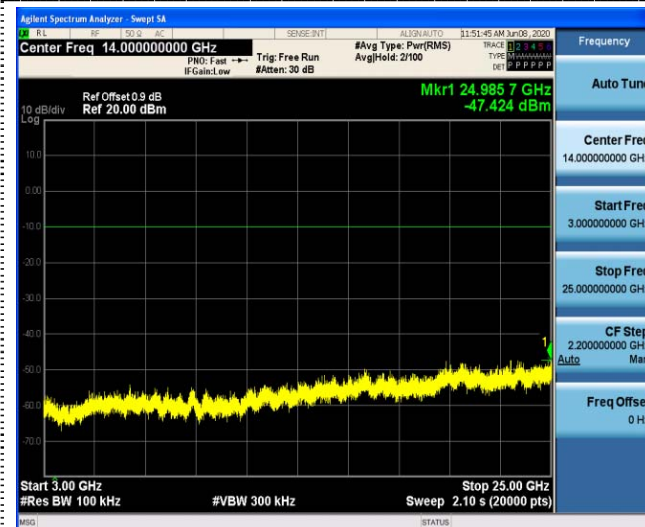
Reference



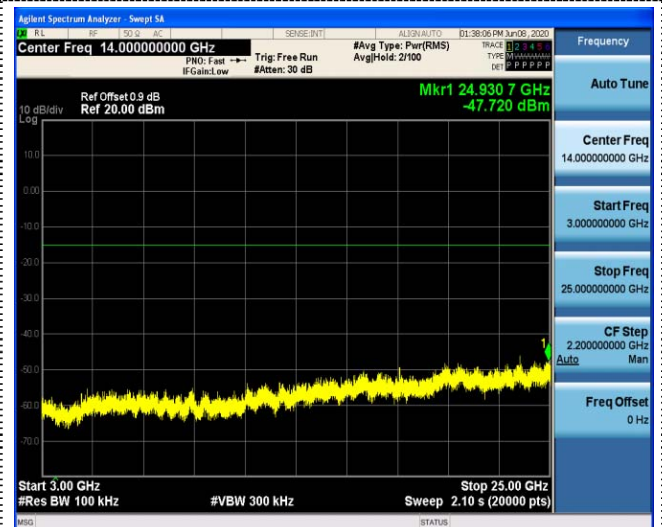
Reference



30MHz-3GHz

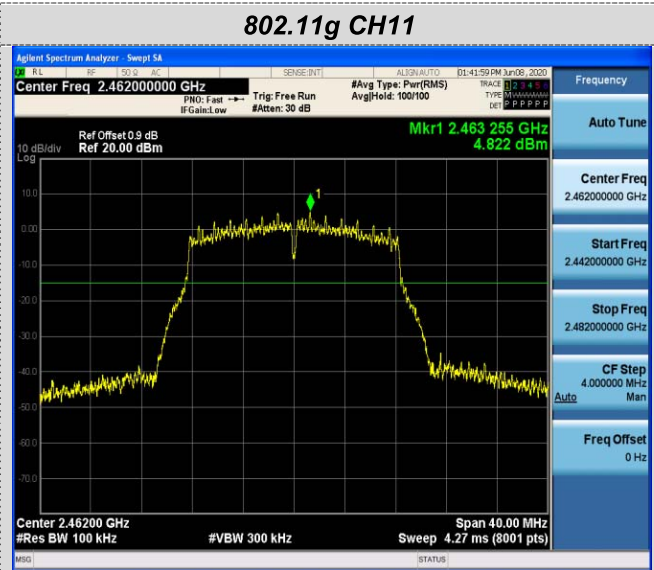
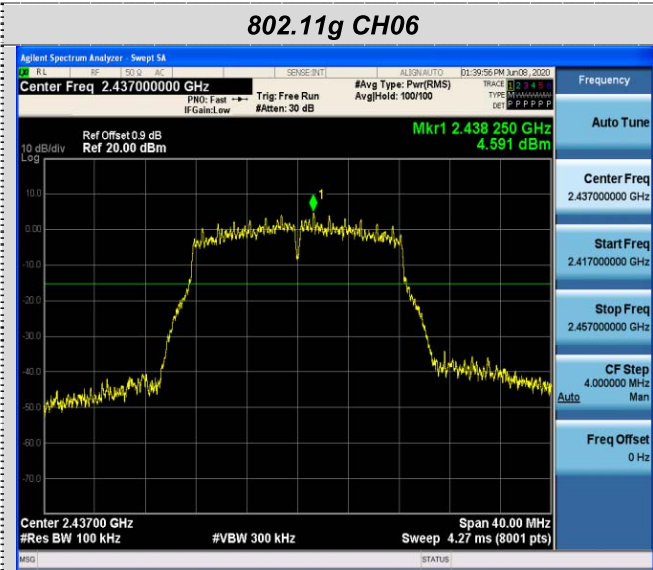


30MHz-3GHz



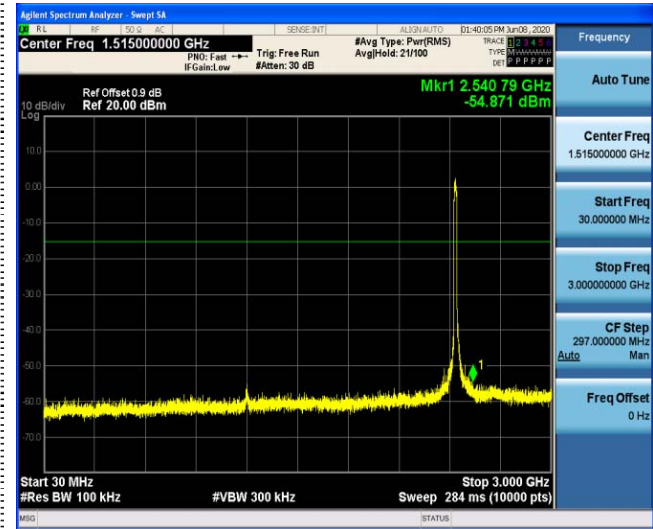
3GHz-25GHz

3GHz-25GHz

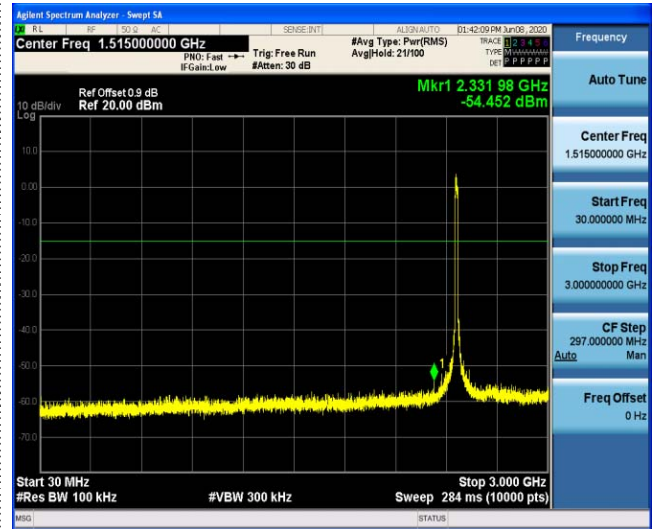


Reference

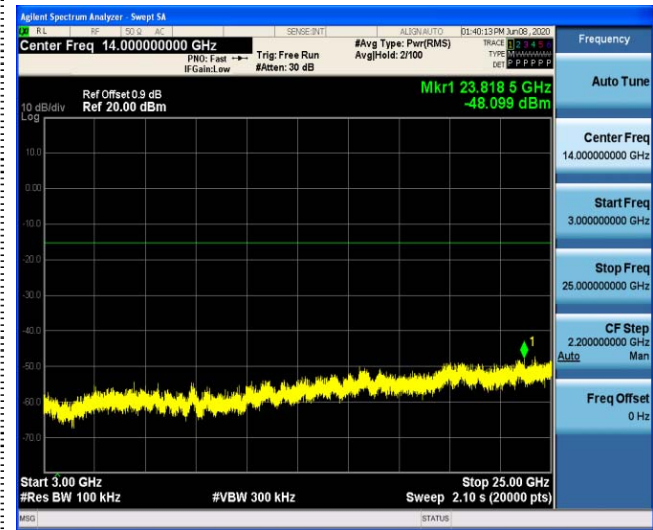
Reference



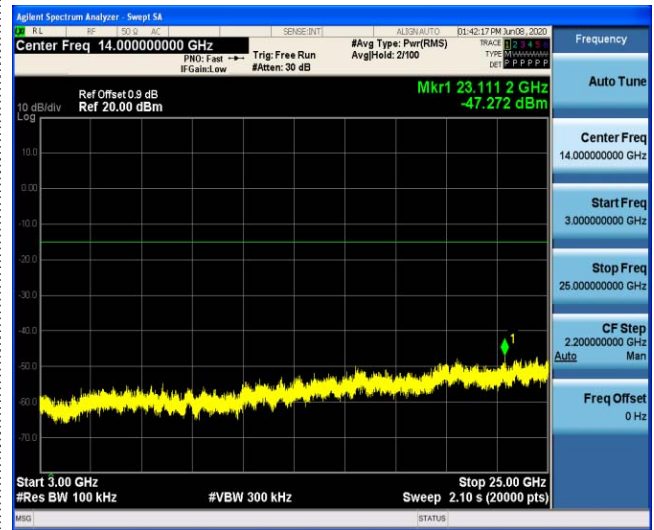
30MHz-3GHz



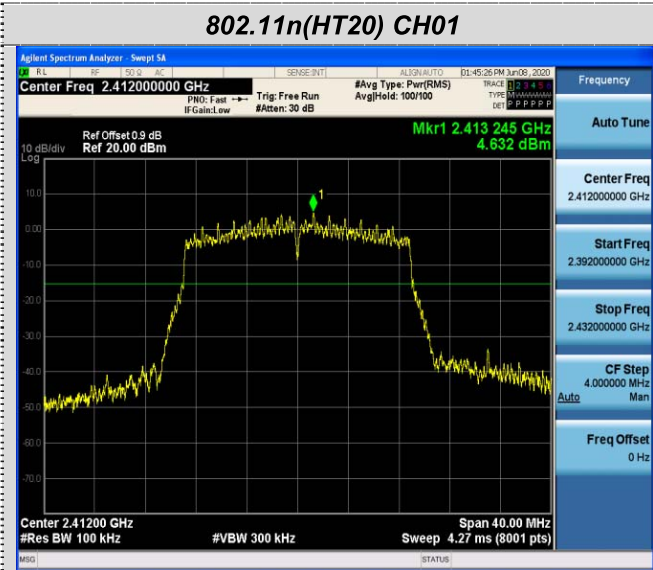
30MHz-3GHz



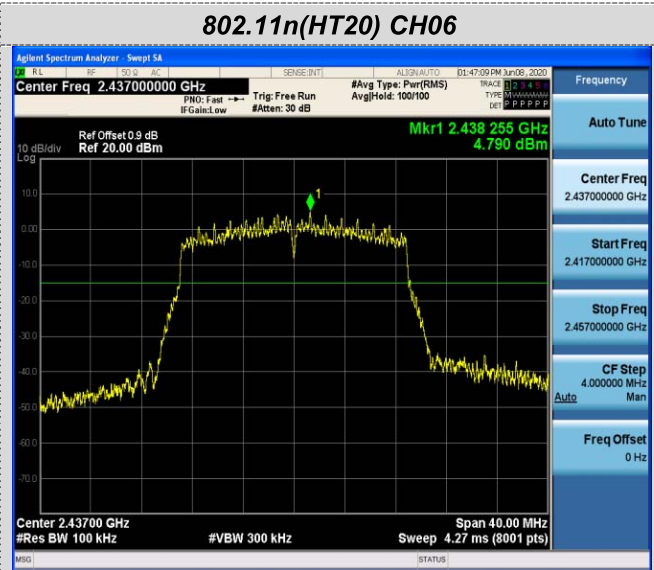
3GHz-25GHz



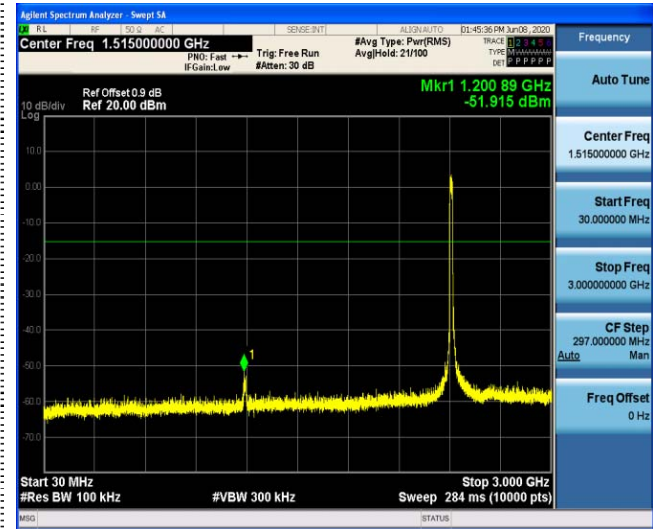
3GHz-25GHz



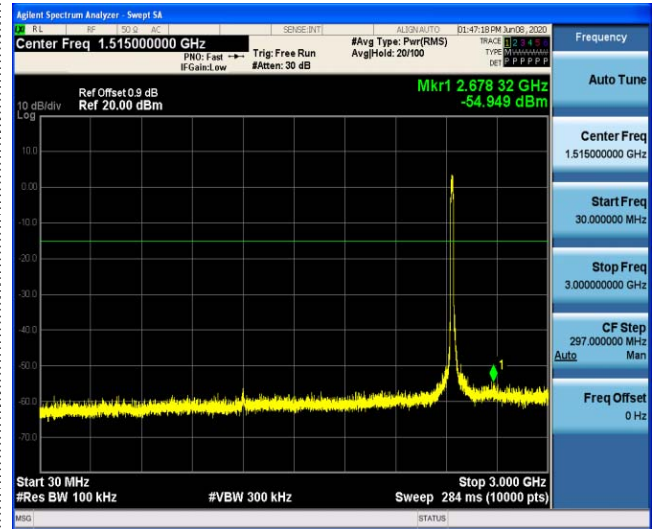
Reference



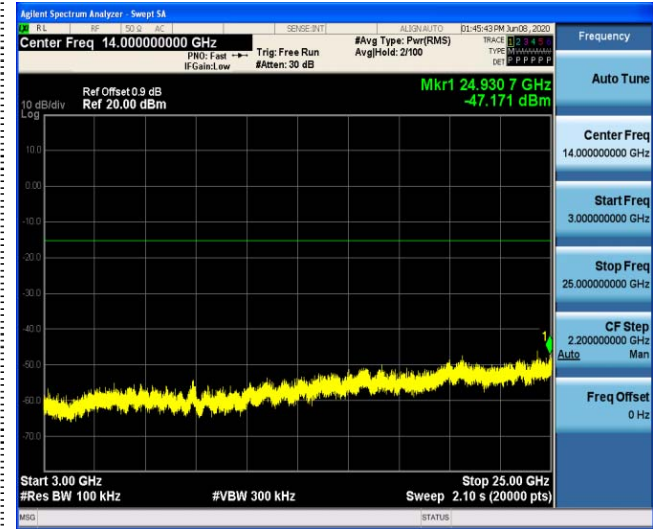
Reference



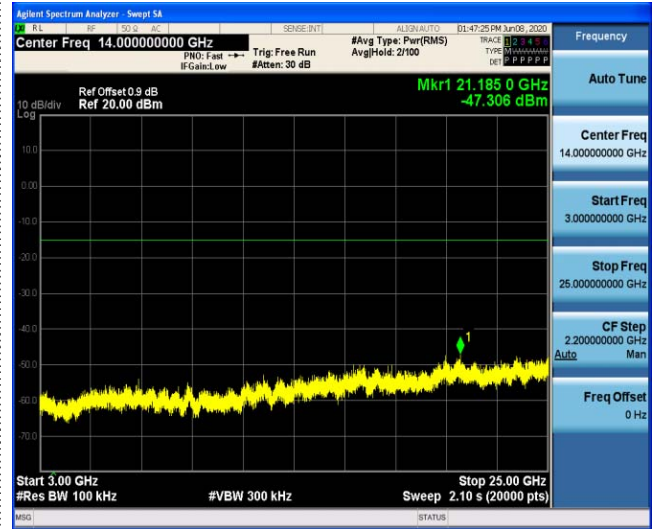
30MHz-3GHz



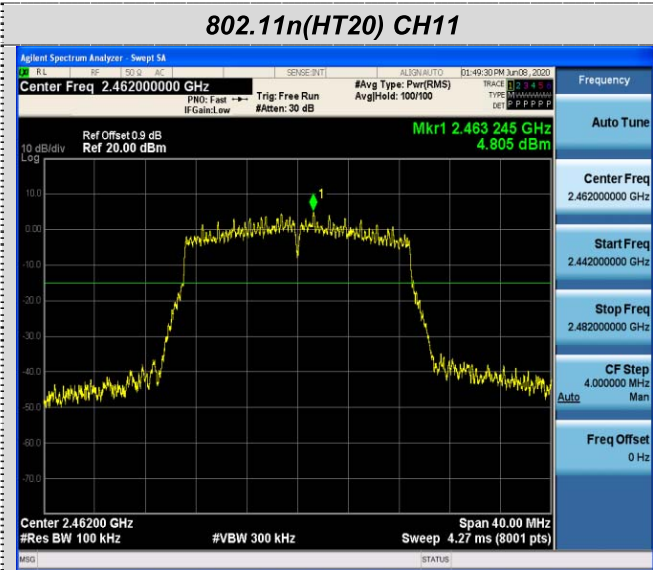
30MHz-3GHz



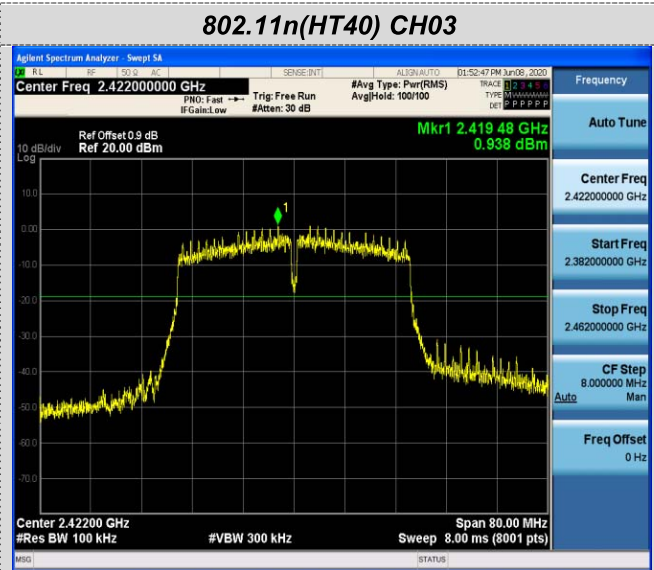
3GHz-25GHz



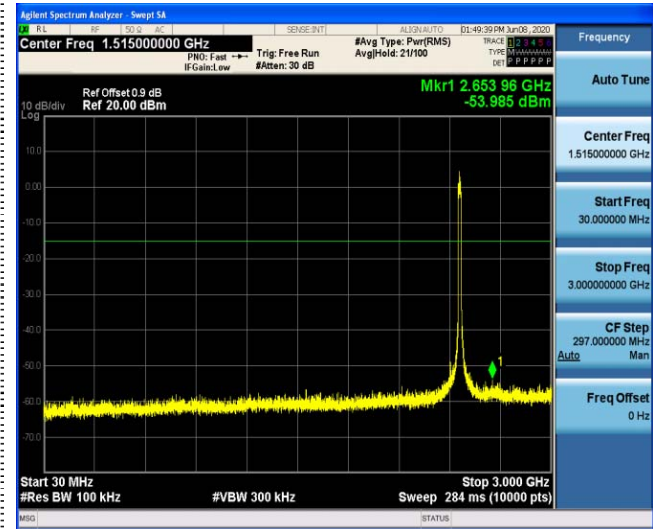
3GHz-25GHz



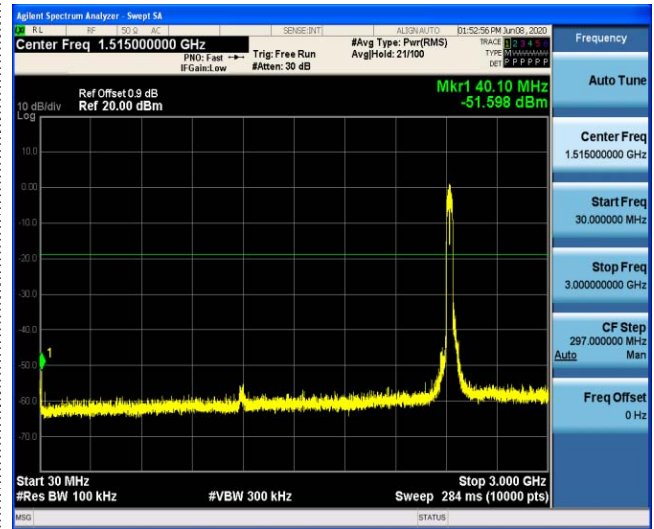
Reference



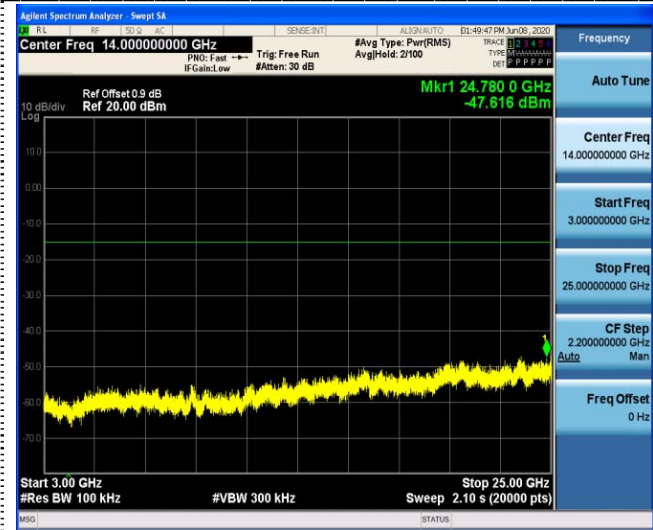
Reference



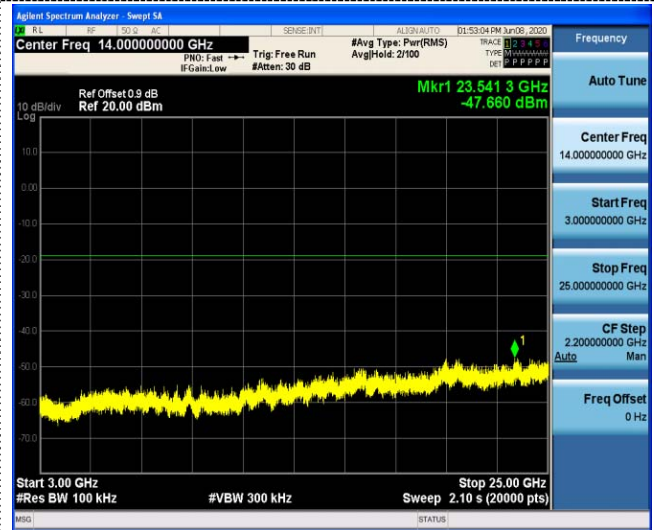
30MHz-3GHz



30MHz-3GHz



3GHz-25GHz



3GHz-25GHz