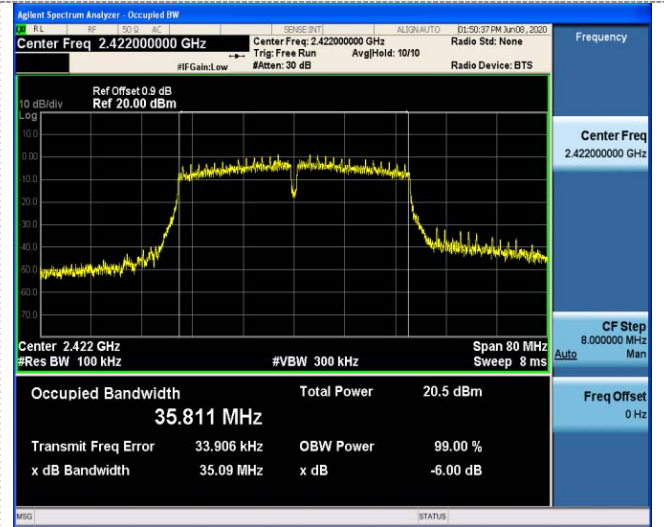
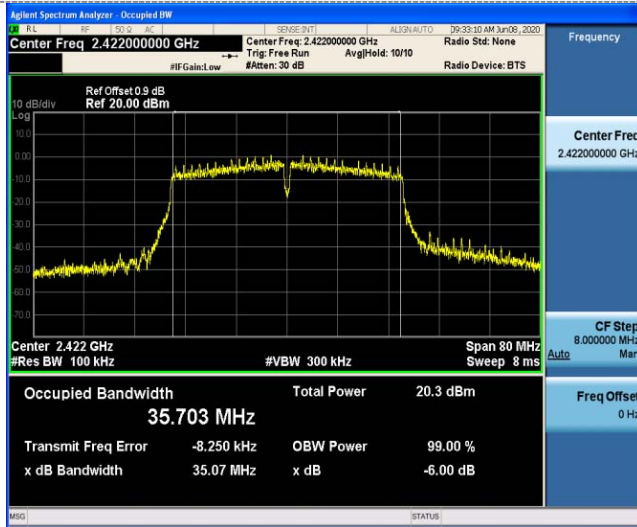


802.11n(HT40)

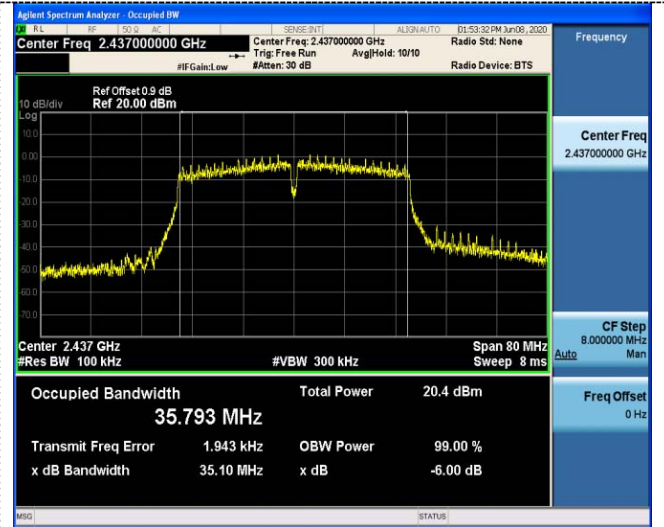
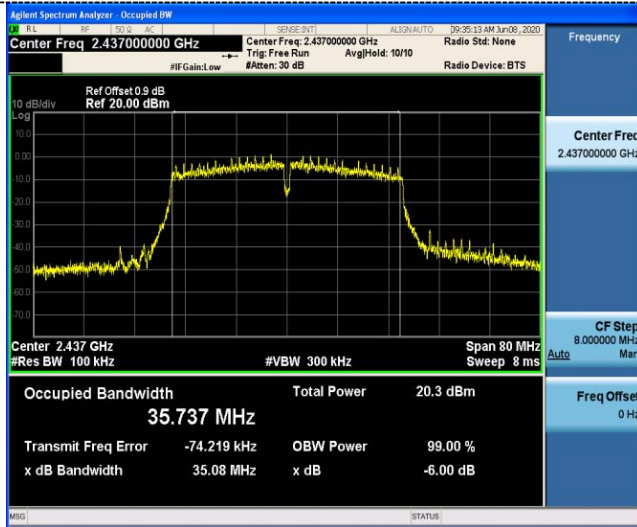
Ant1

Ant2



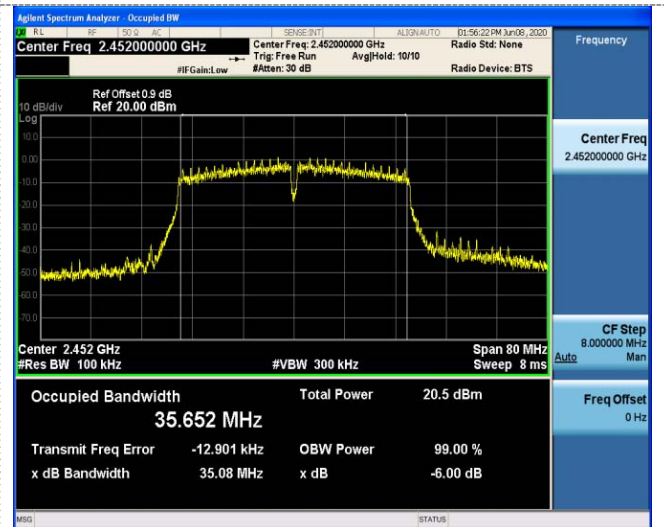
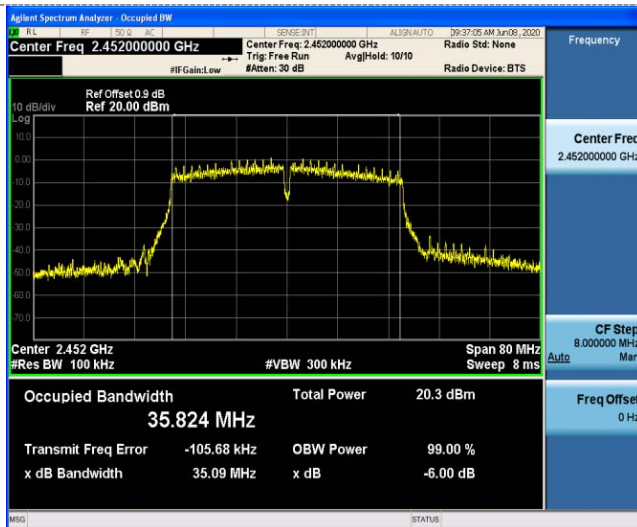
CH01

CH01



CH06

CH06



CH11

CH11

4.6 Out-of-band Emissions

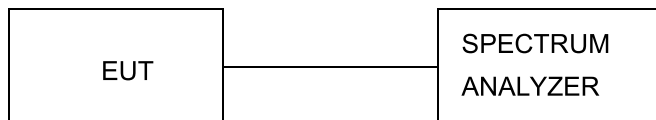
Limit

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 |

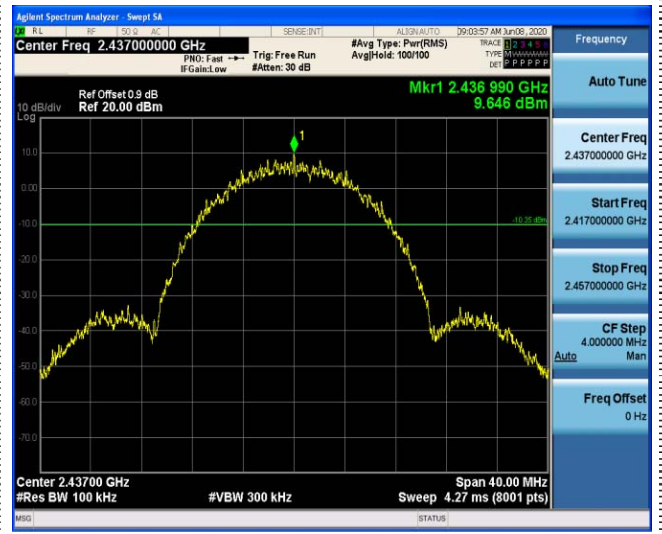
Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

Test plot as follows:

Ant1

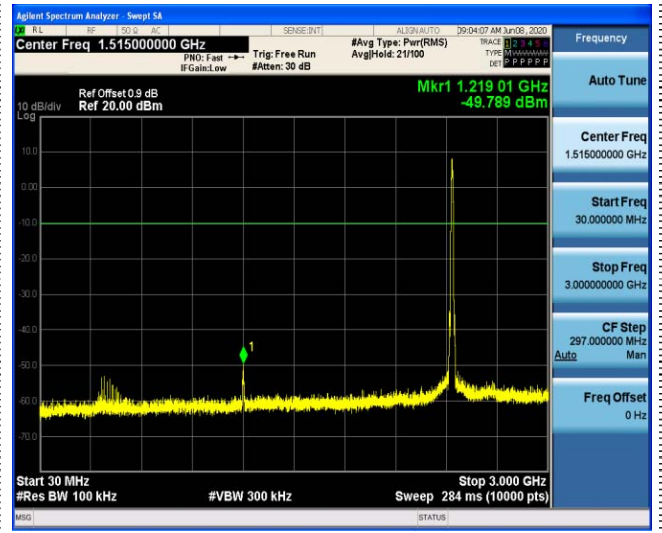
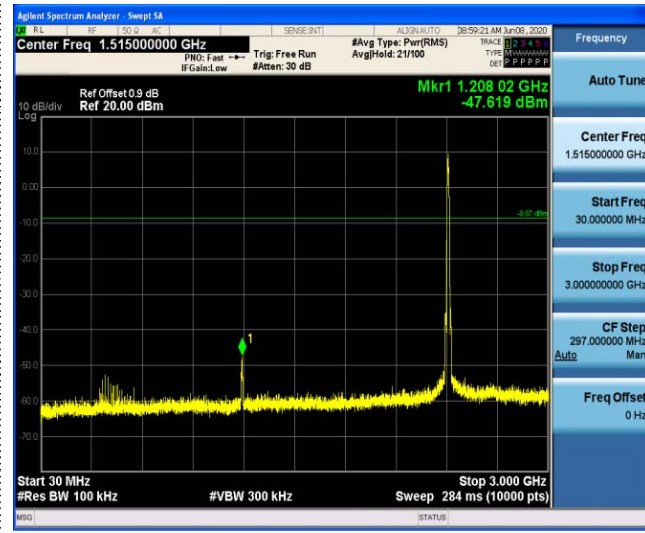
802.11b CH01

802.11b CH06



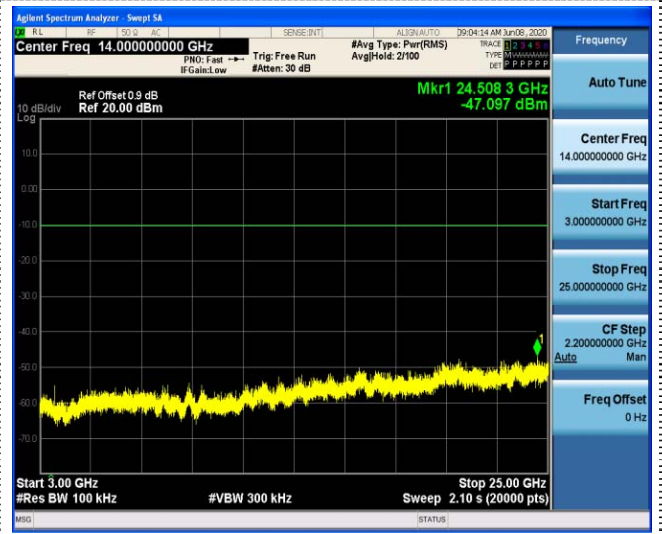
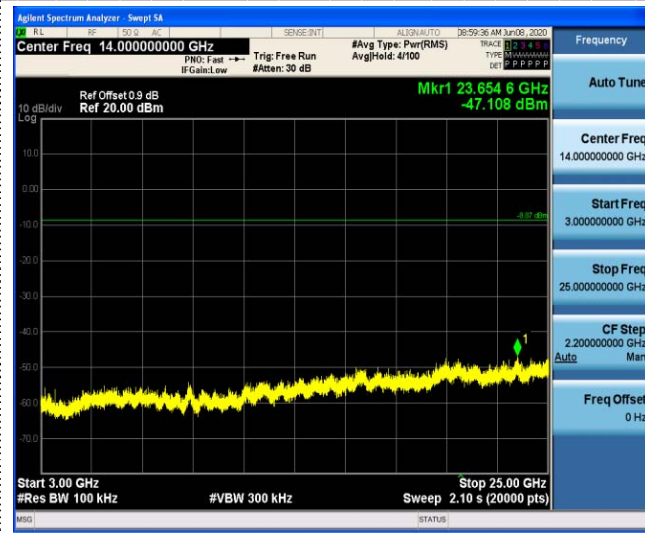
Reference

Reference



30MHz-3GHz

30MHz-3GHz



3GHz-25GHz

3GHz-25GHz

802.11b CH11

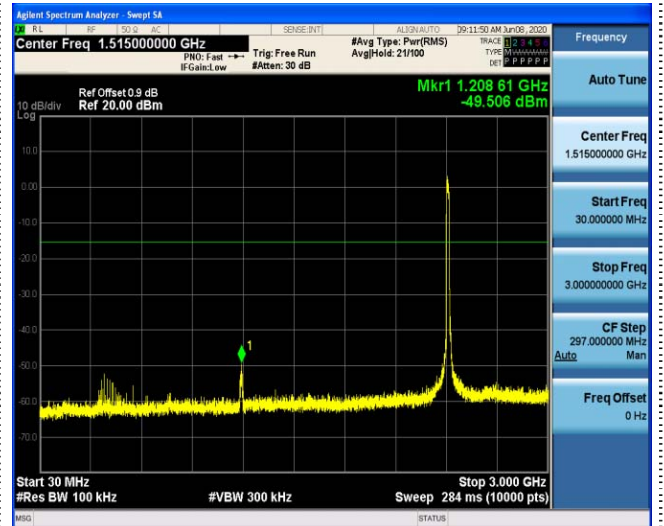
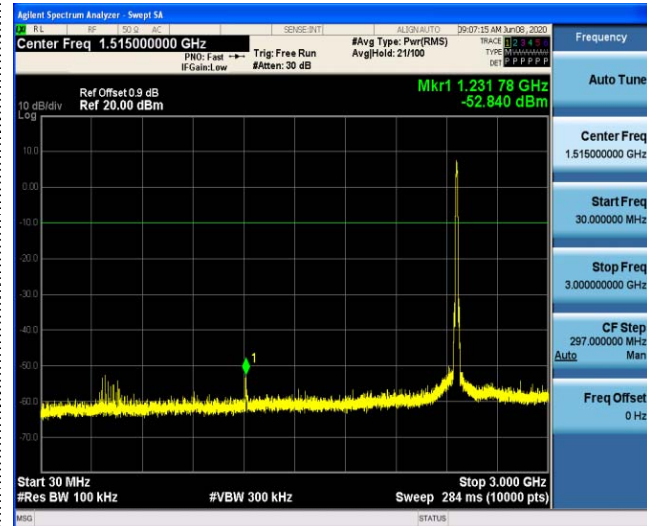


802.11g CH01



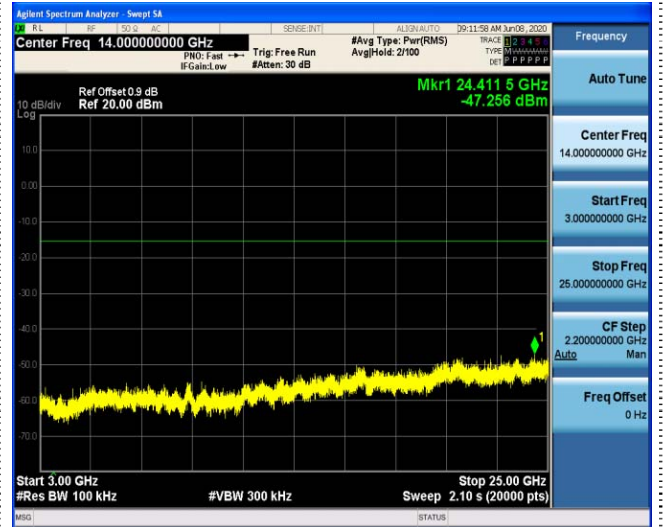
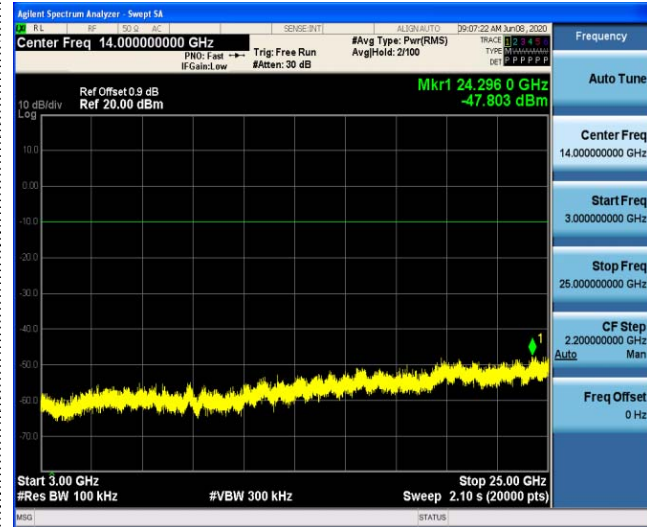
Reference

Reference



30MHz-3GHz

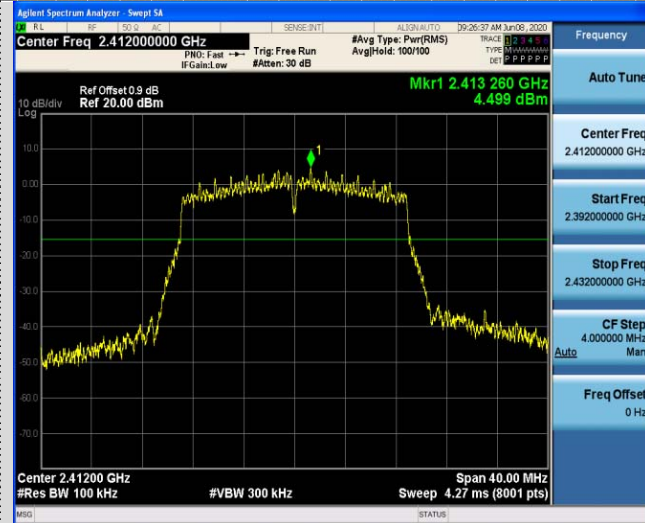
30MHz-3GHz



3GHz-25GHz

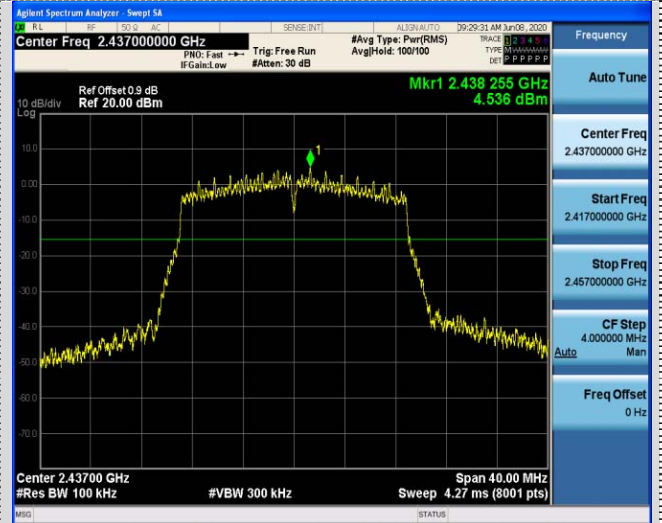
3GHz-25GHz

802.11n(HT20) CH01



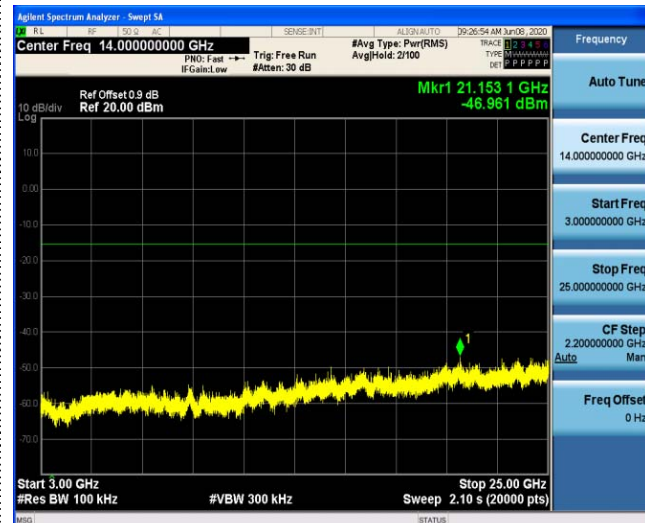
Reference

802.11n(HT20) CH06



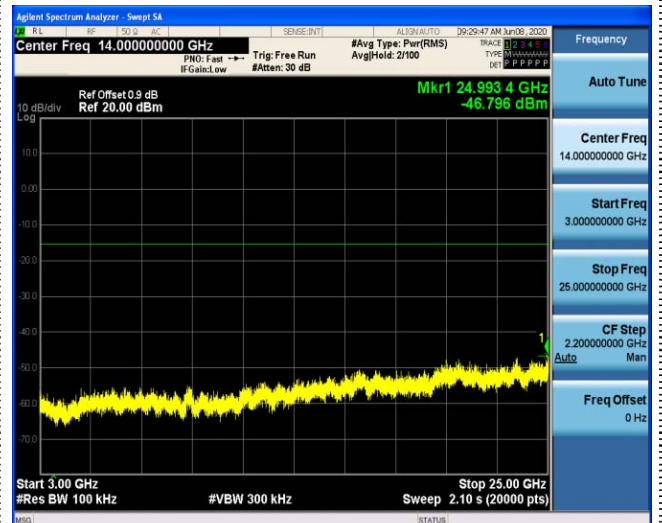
Reference

30MHz-3GHz



30MHz-3GHz

30MHz-3GHz



30MHz-3GHz

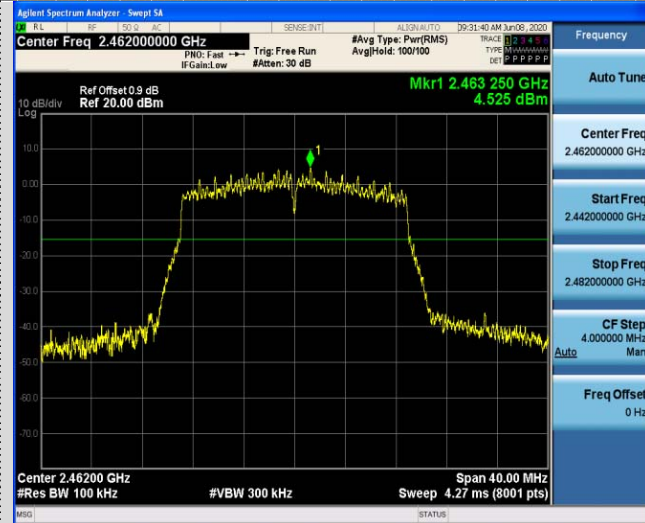
3GHz-25GHz

3GHz-25GHz

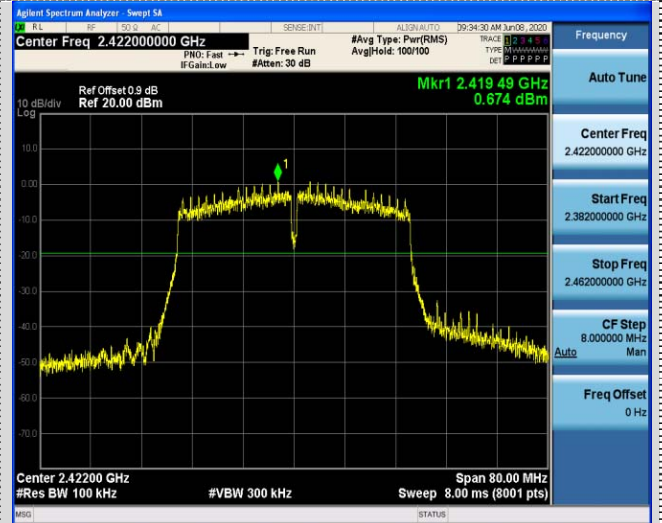
3GHz-25GHz

3GHz-25GHz

802.11n(HT20) CH11

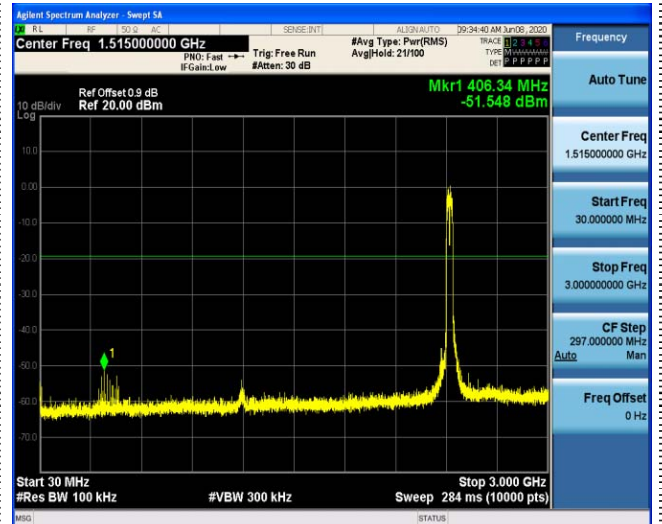
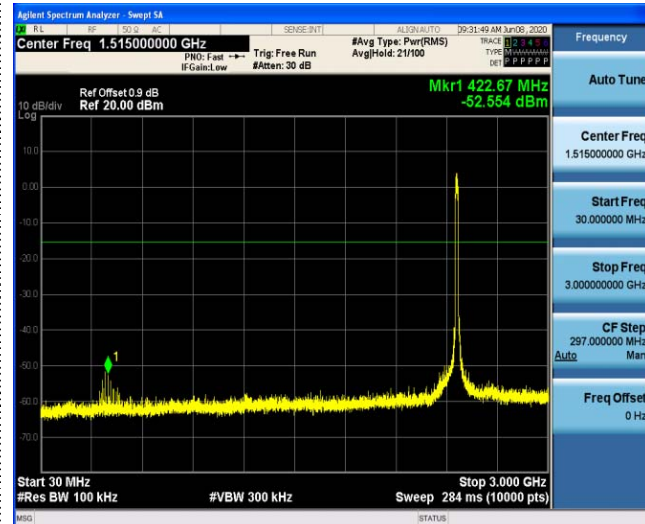


802.11n(HT40) CH03



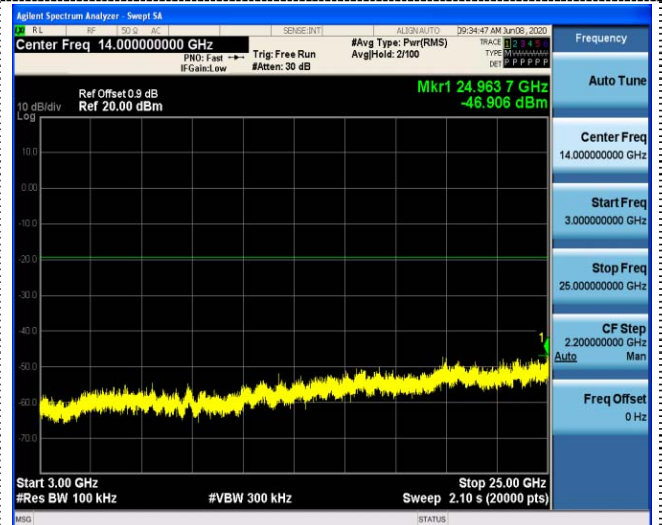
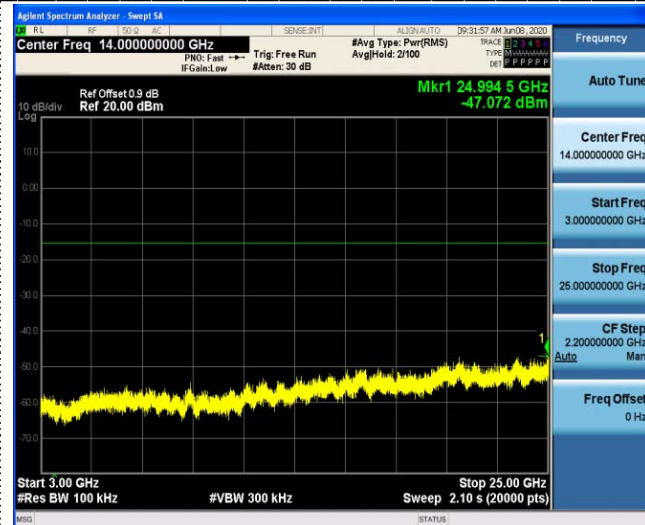
Reference

Reference



30MHz-3GHz

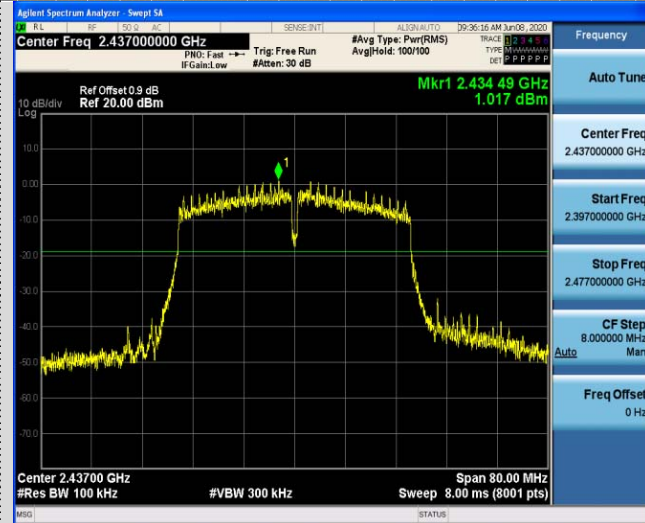
30MHz-3GHz



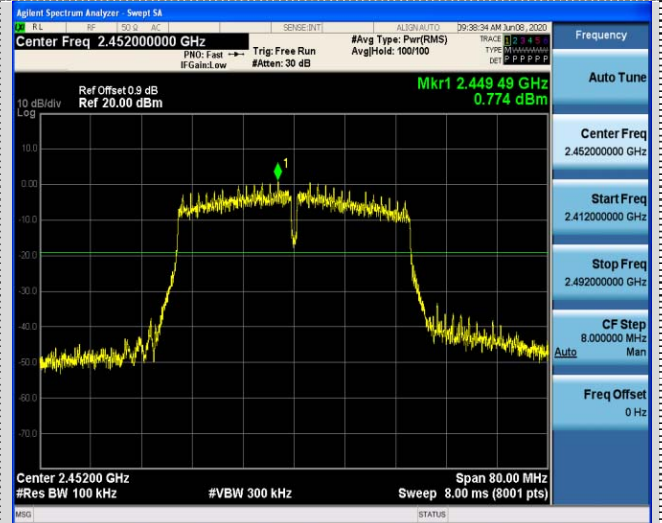
3GHz-25GHz

3GHz-25GHz

802.11n(HT40) CH06

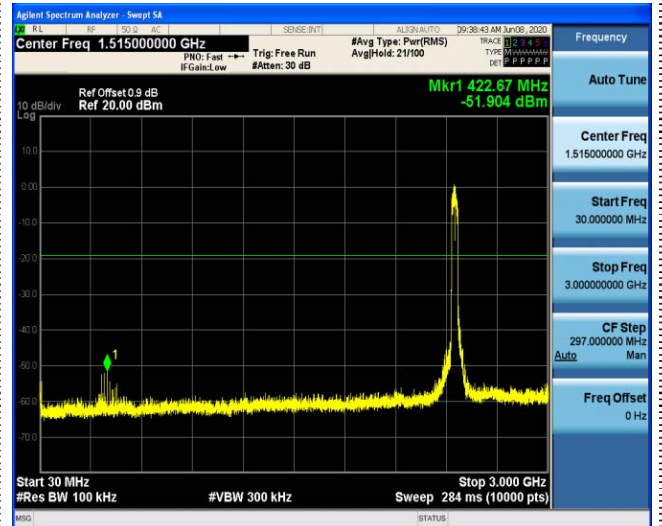
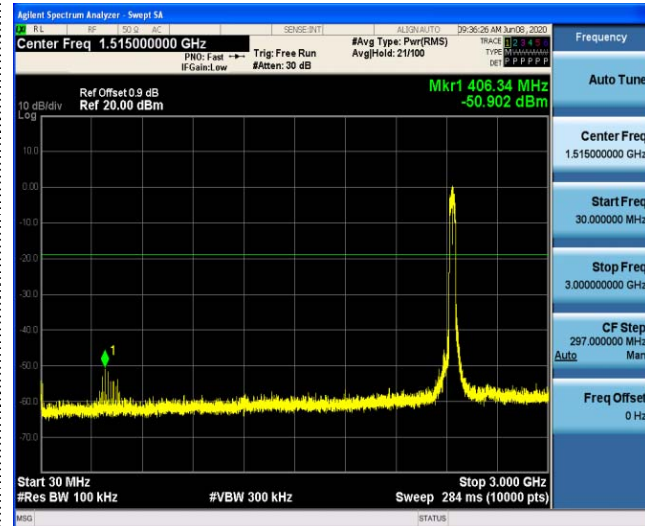


802.11n(HT40) CH09



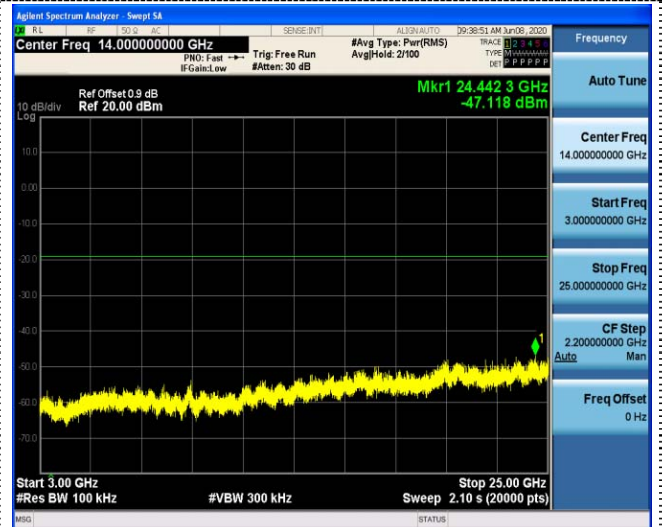
Reference

Reference



30MHz-3GHz

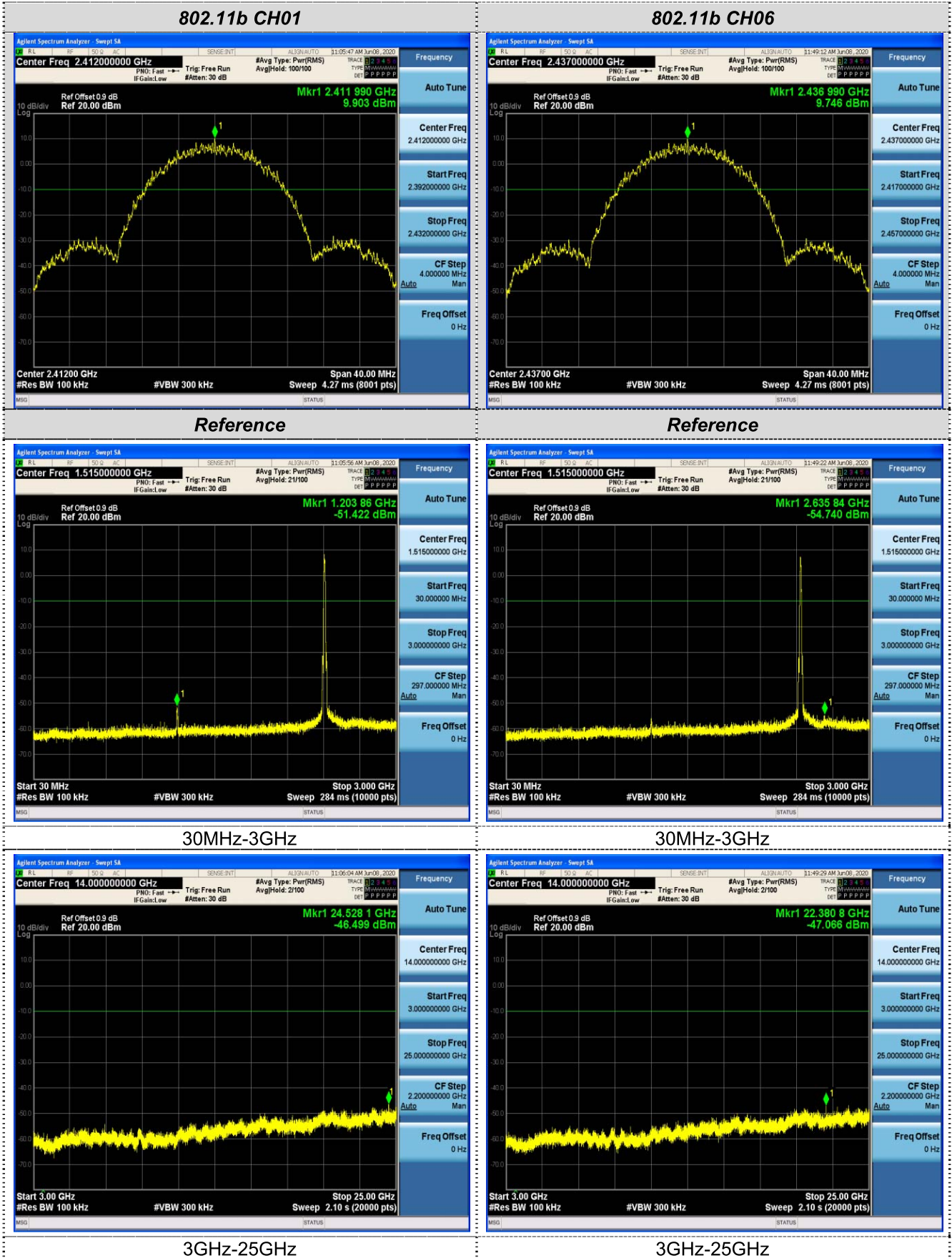
30MHz-3GHz

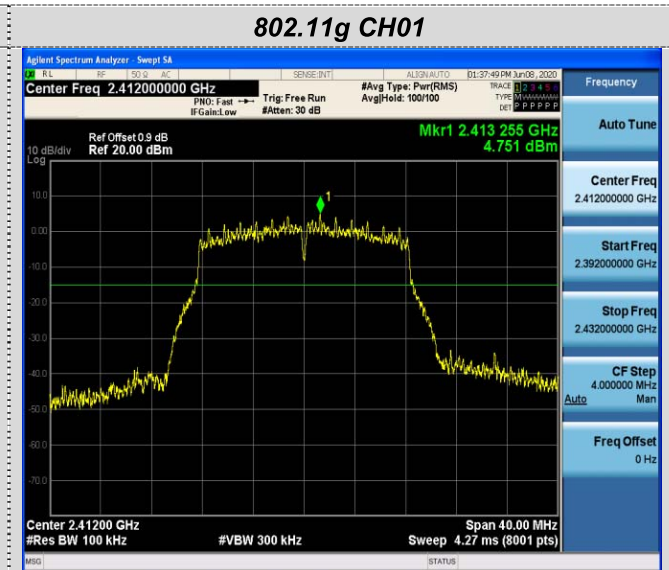
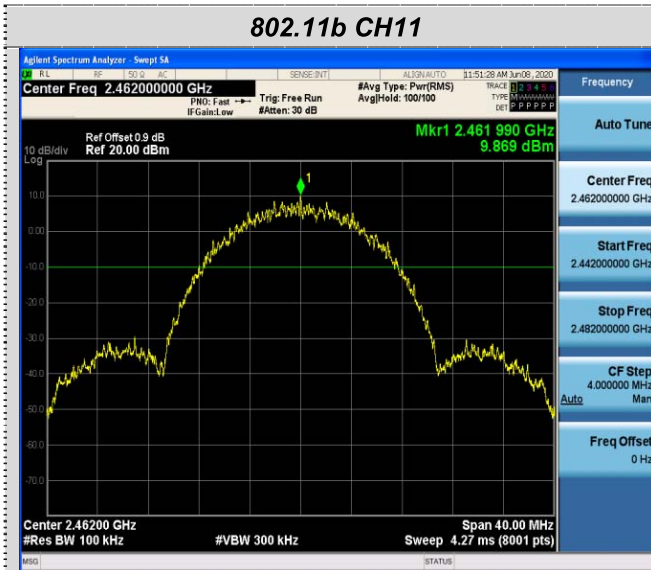


3GHz-25GHz

3GHz-25GHz

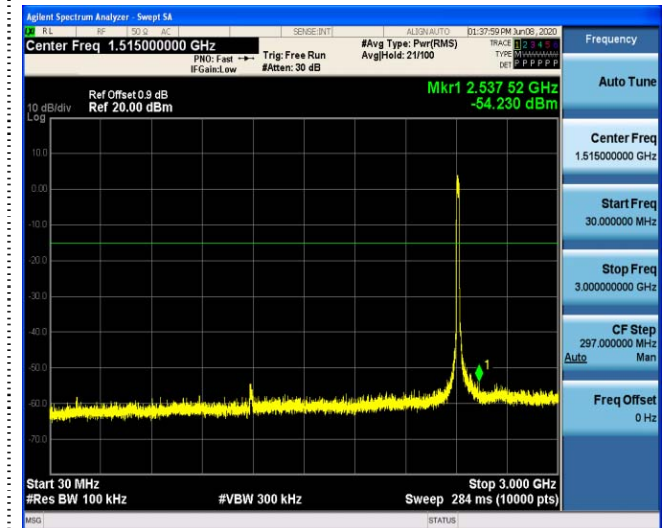
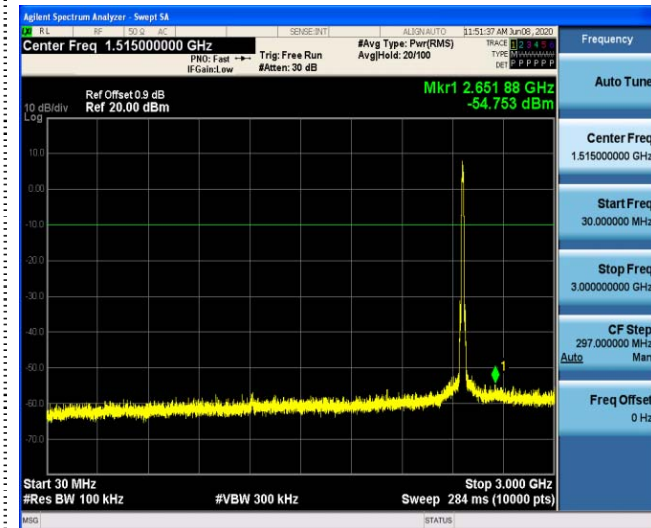
Ant2





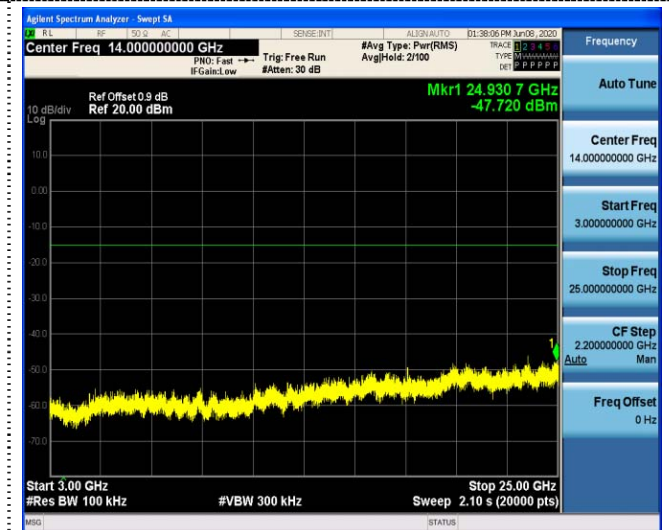
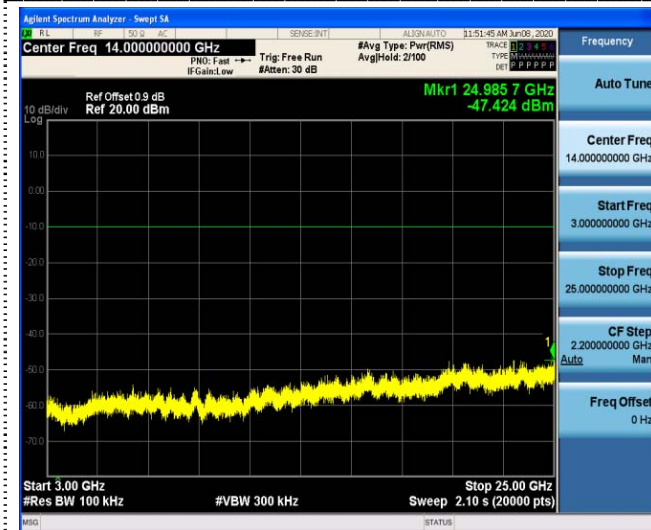
Reference

Reference



30MHz-3GHz

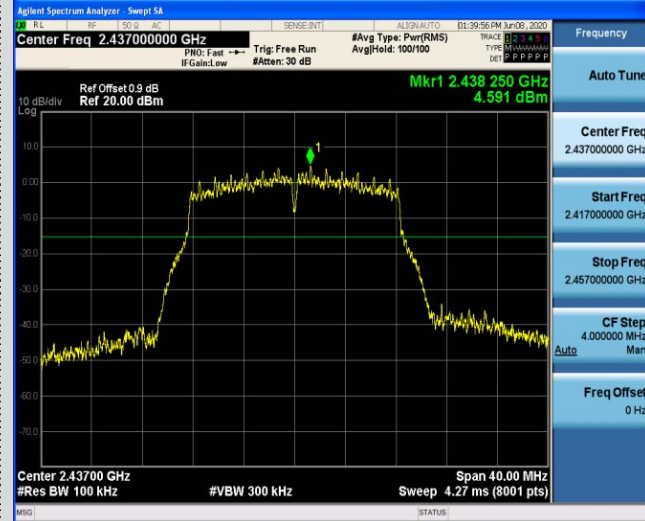
30MHz-3GHz



3GHz-25GHz

3GHz-25GHz

802.11g CH06

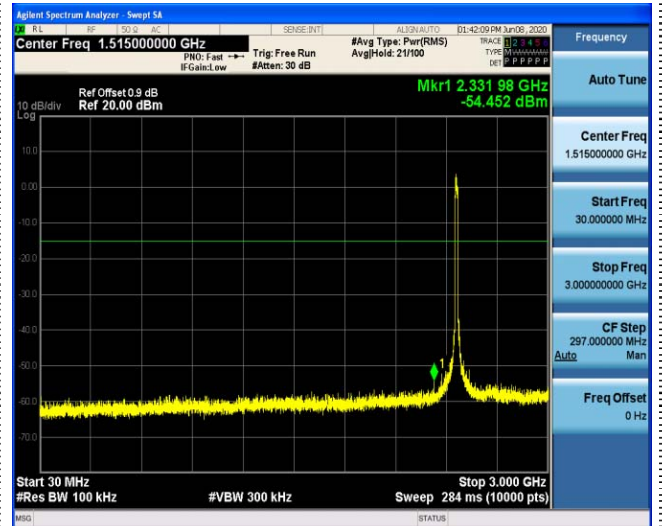
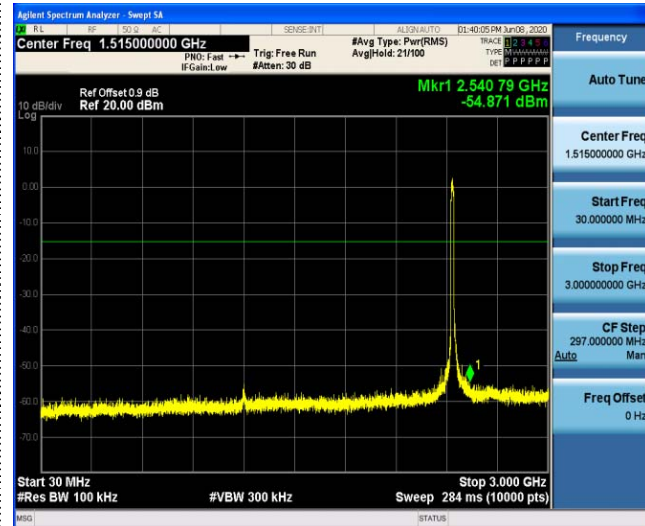


802.11g CH11



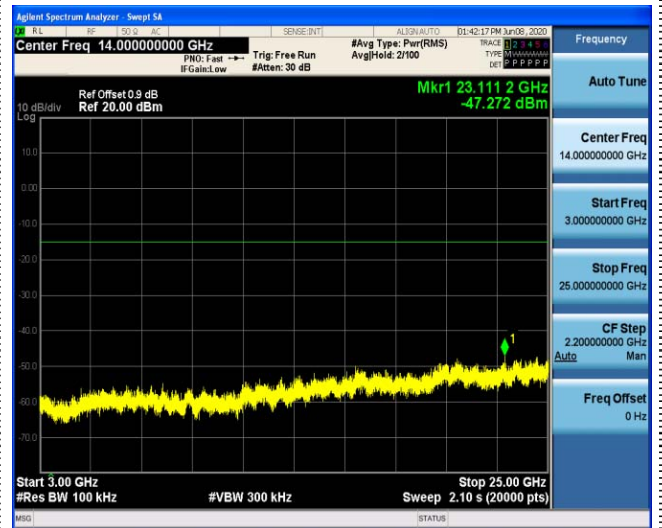
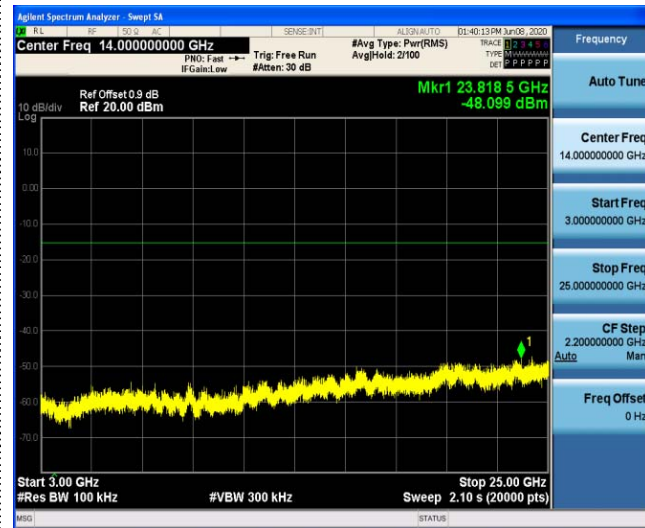
Reference

Reference



30MHz-3GHz

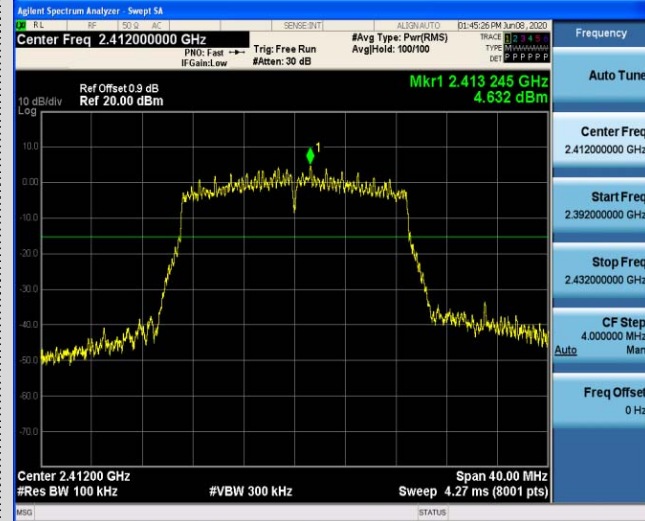
30MHz-3GHz



3GHz-25GHz

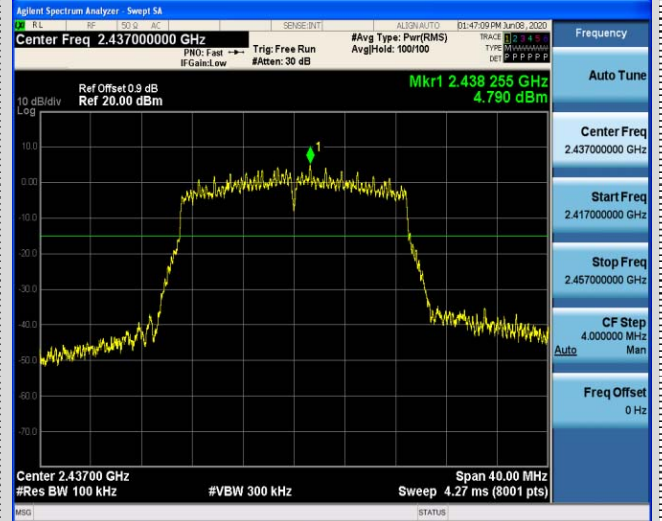
3GHz-25GHz

802.11n(HT20) CH01



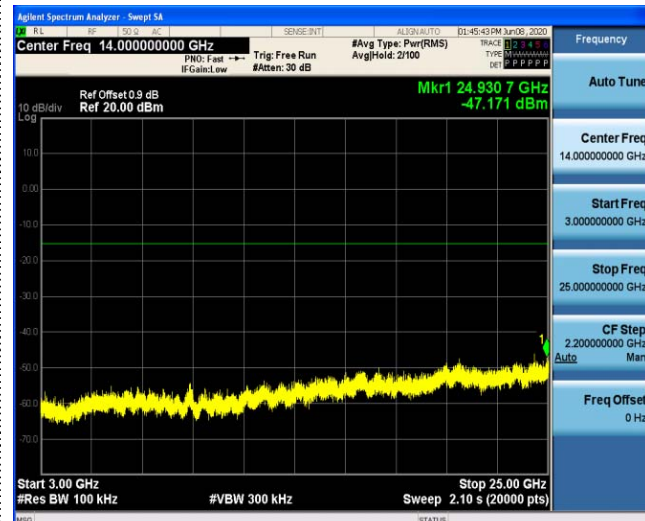
Reference

802.11n(HT20) CH06



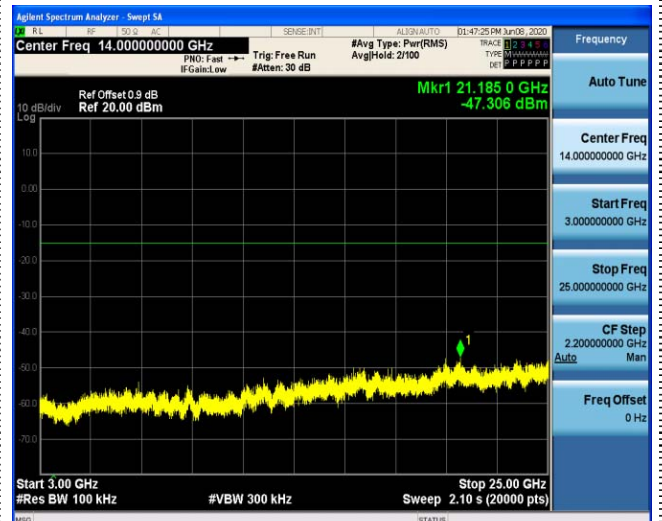
Reference

30MHz-3GHz



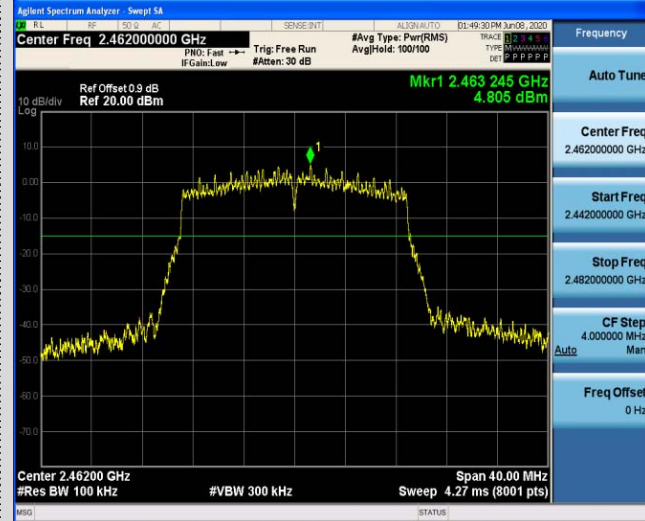
3GHz-25GHz

30MHz-3GHz

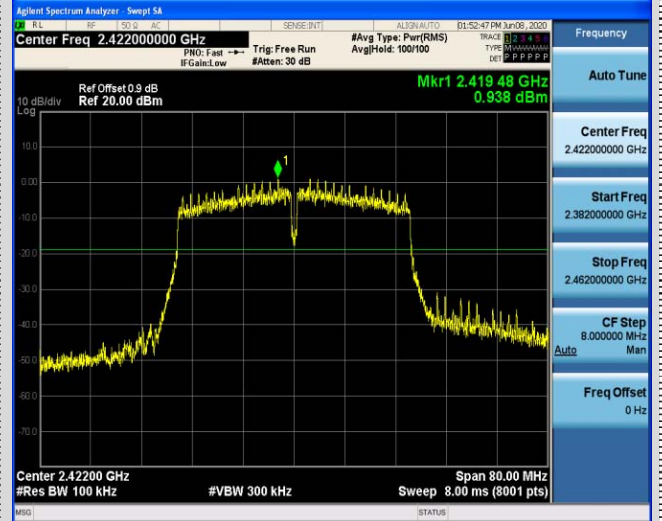


3GHz-25GHz

802.11n(HT20) CH11

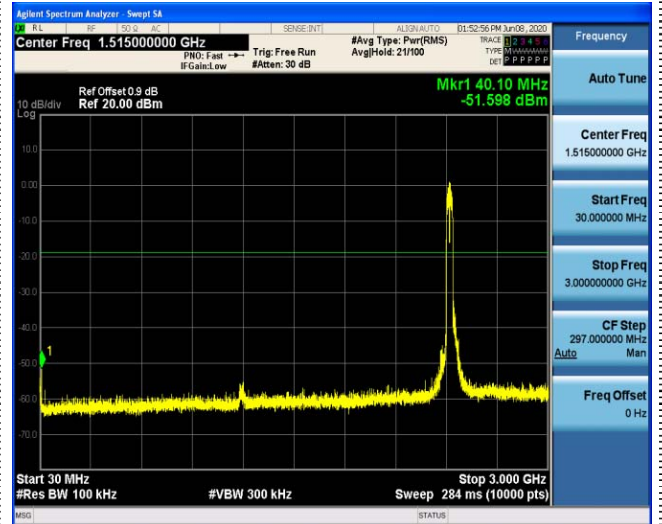
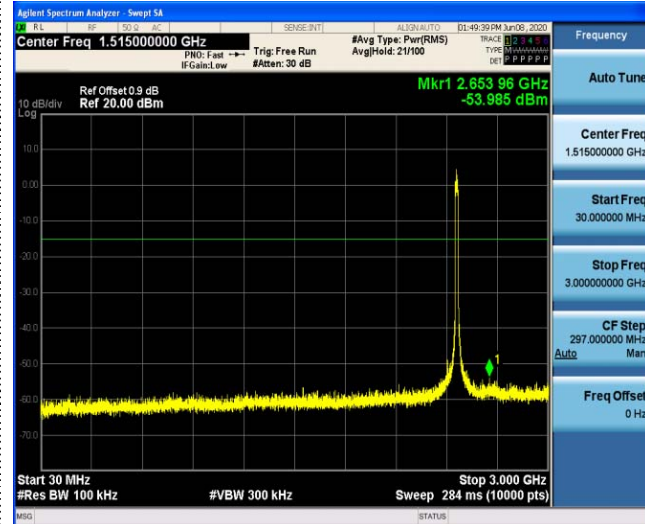


802.11n(HT40) CH03



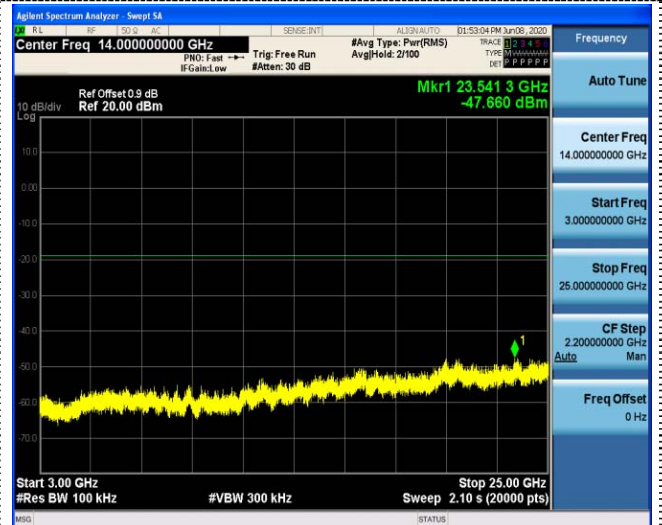
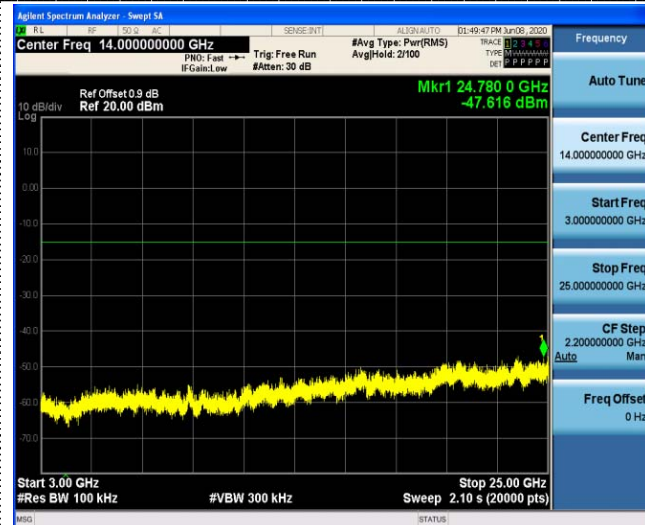
Reference

Reference



30MHz-3GHz

30MHz-3GHz



3GHz-25GHz

3GHz-25GHz