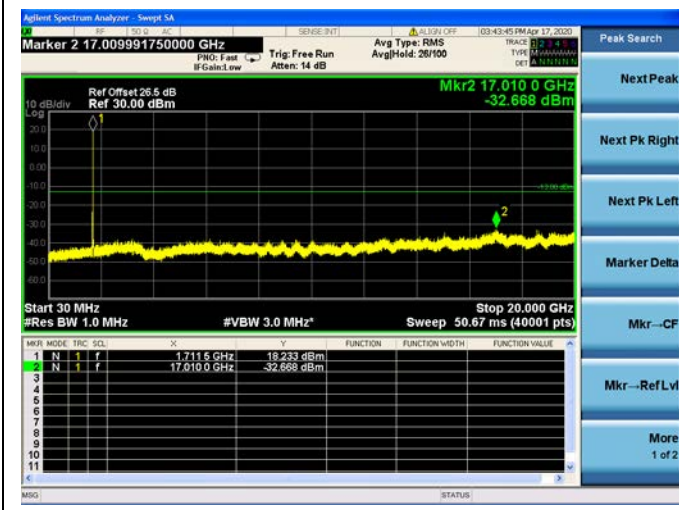
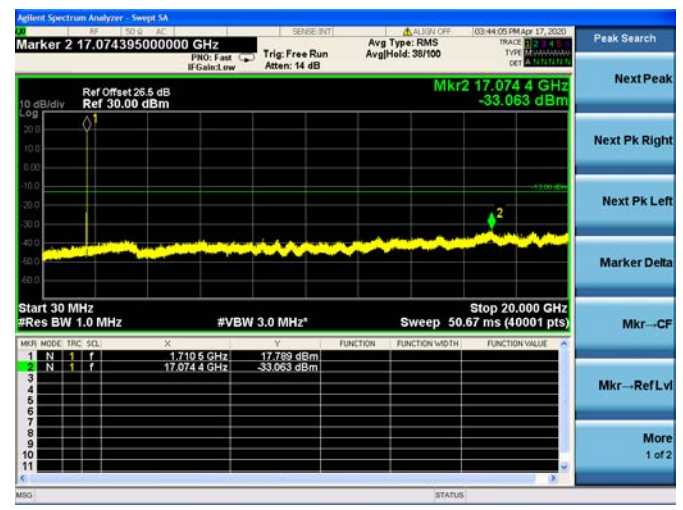




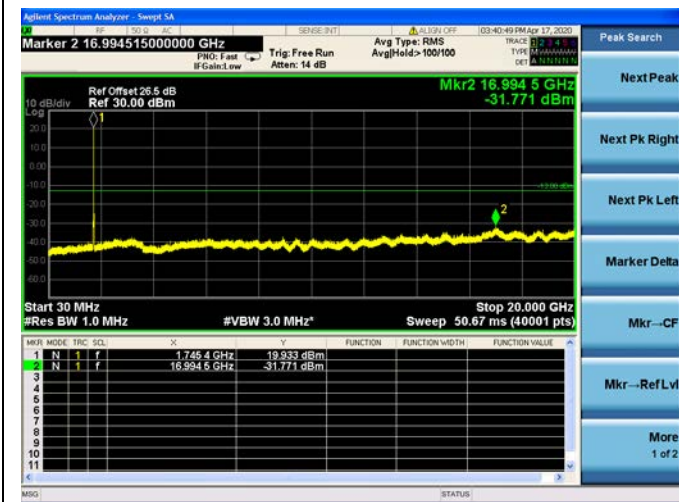
Band 66/ 5MHz/ Low CH/QPSK



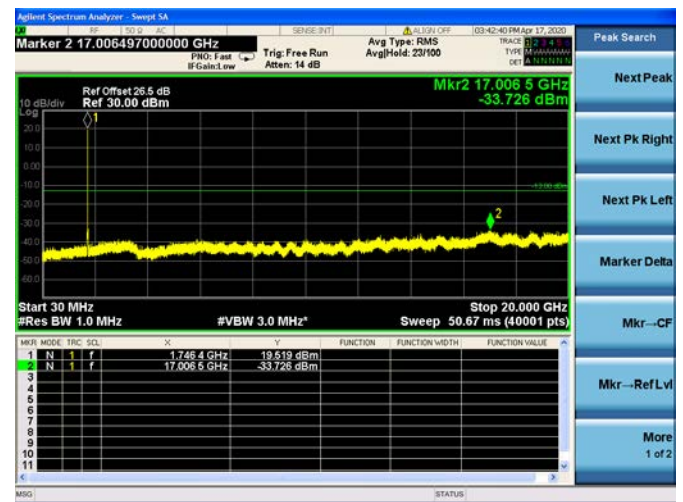
Band 66/ 5MHz/ Low CH/16QAM



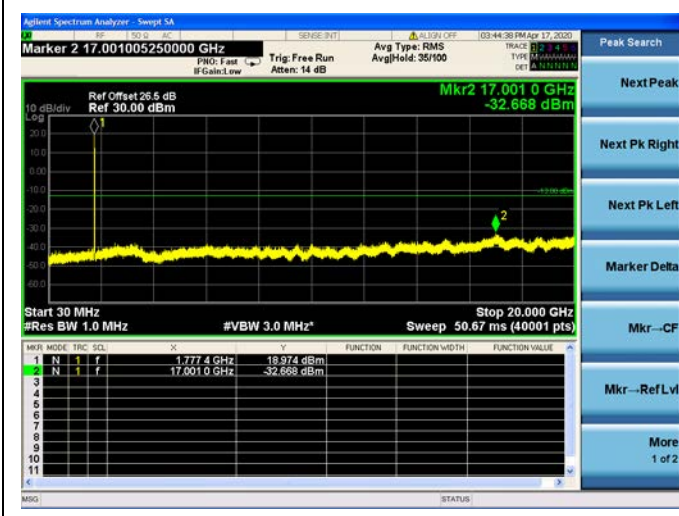
Band 66/ 5MHz/Mid CH/QPSK



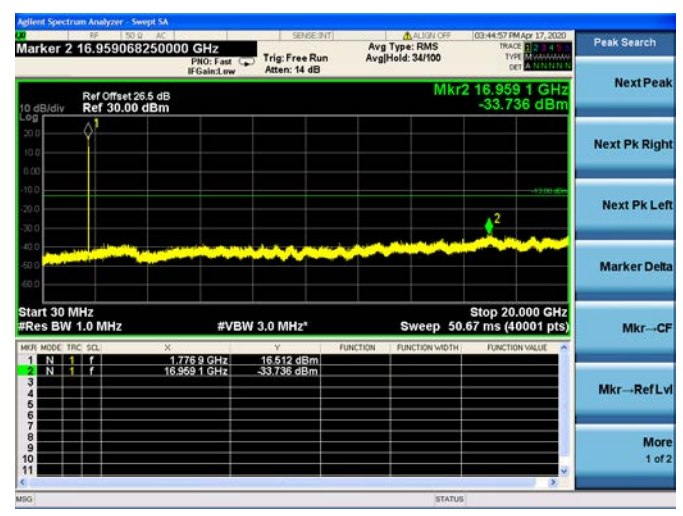
Band 66/ 5MHz/Mid CH/16QAM



Band 66/ 5MHz/High CH/QPSK

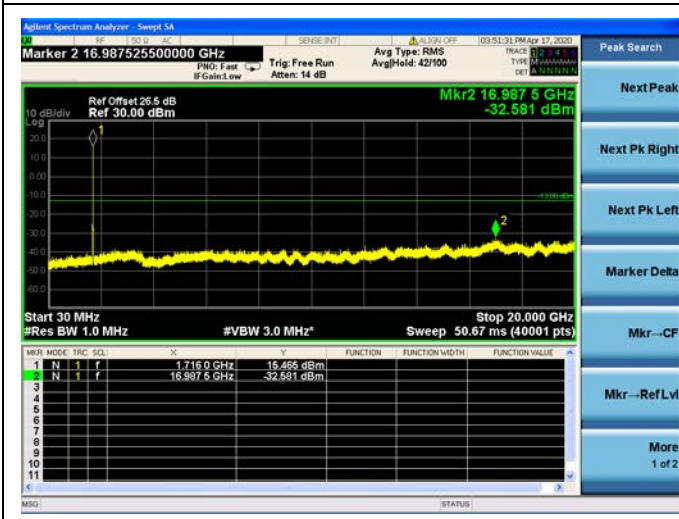


Band 66/ 5MHz/High CH/16QAM

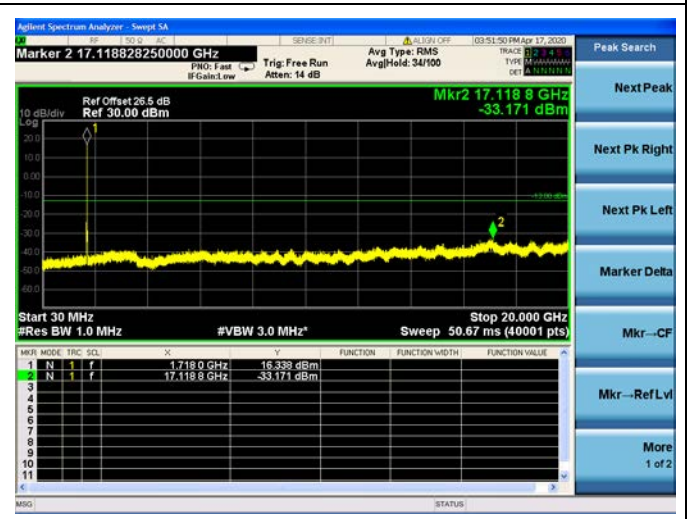




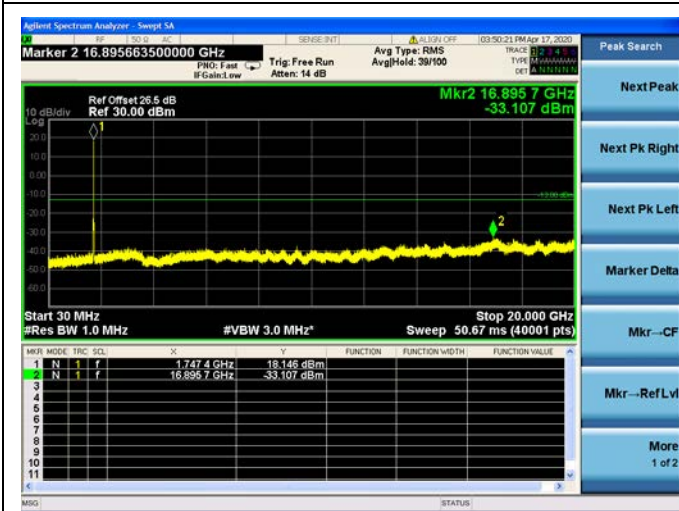
Band 66/ 10MHz/ Low CH/QPSK



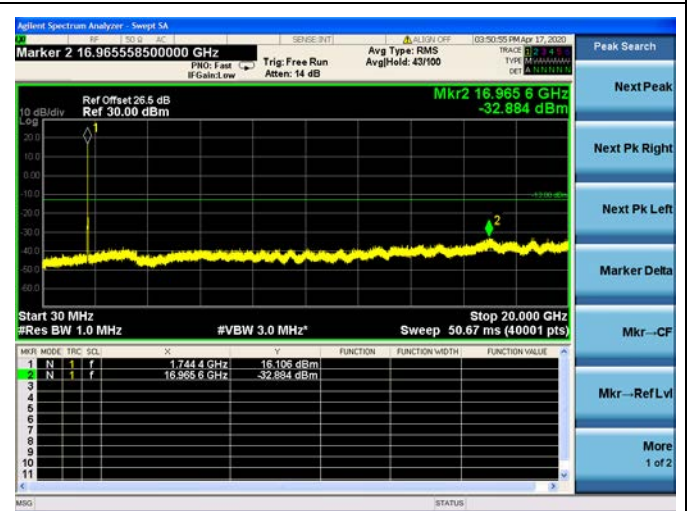
Band 66/ 10MHz/ Low CH/16QAM



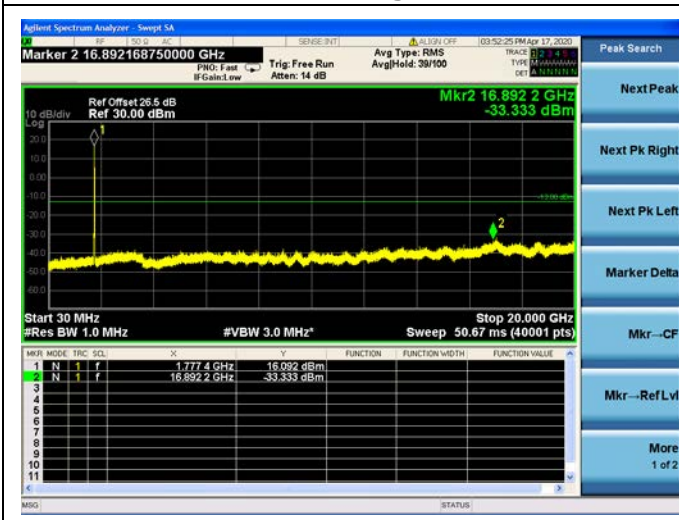
Band 66/ 10MHz/Mid CH/QPSK



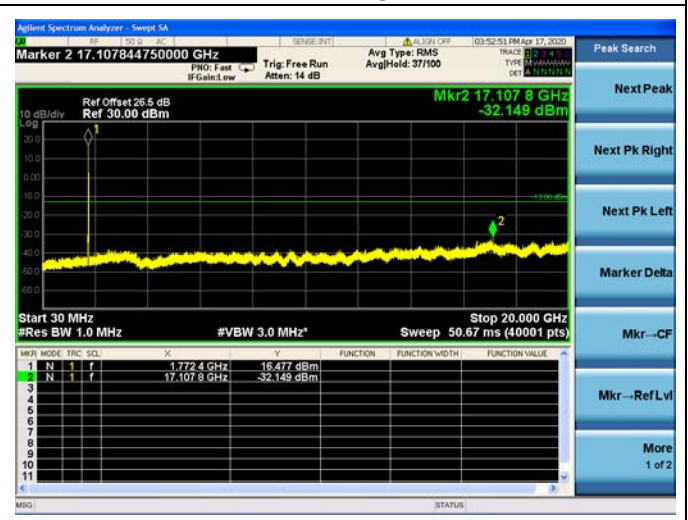
Band 66/ 10MHz/Mid CH/16QAM



Band 66/ 10MHz/High CH/QPSK

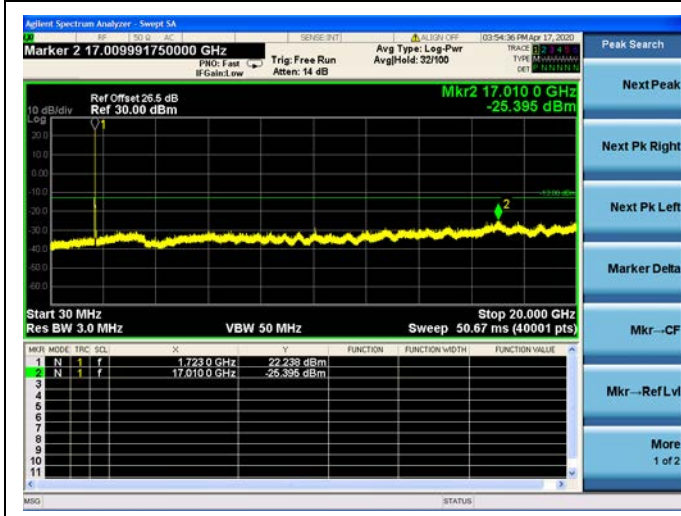


Band 66/ 10MHz/High CH/16QAM

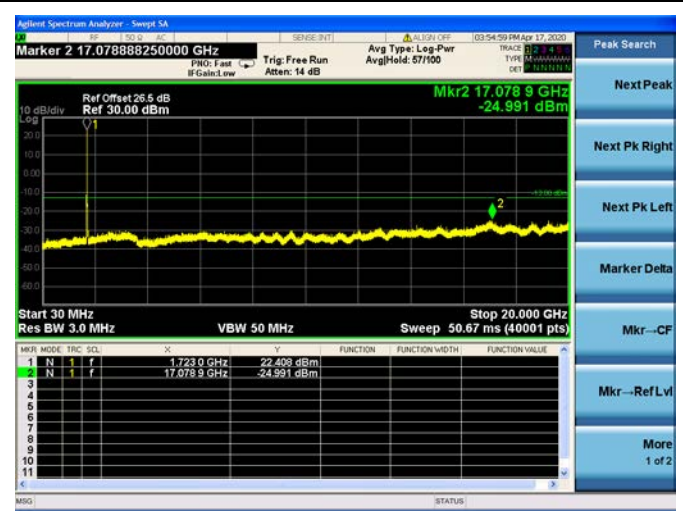




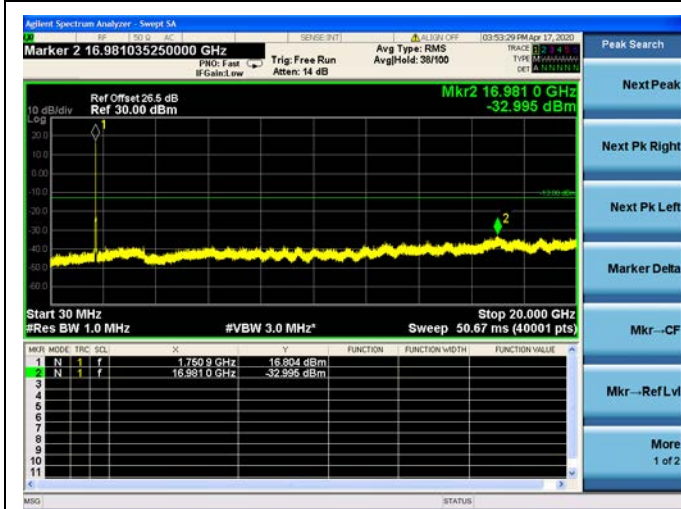
Band 66/ 15MHz/ Low CH/QPSK



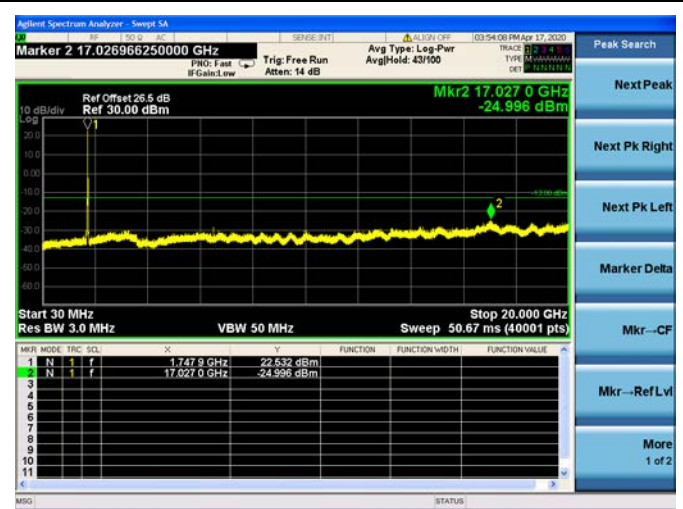
Band 66/ 15MHz/ Low CH/16QAM



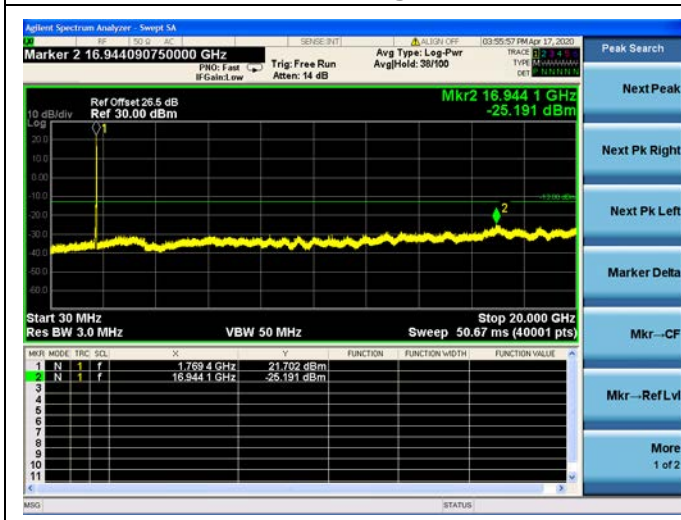
Band 66/ 15MHz/Mid CH/QPSK



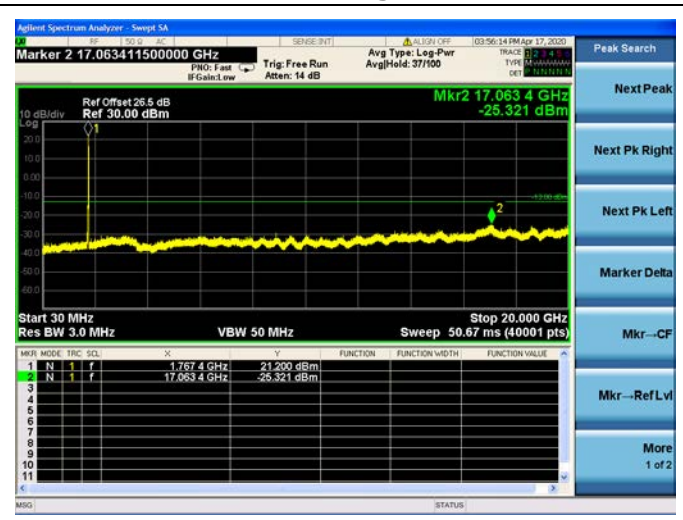
Band 66/ 15MHz/Mid CH/16QAM



Band 66/ 15MHz/High CH/QPSK

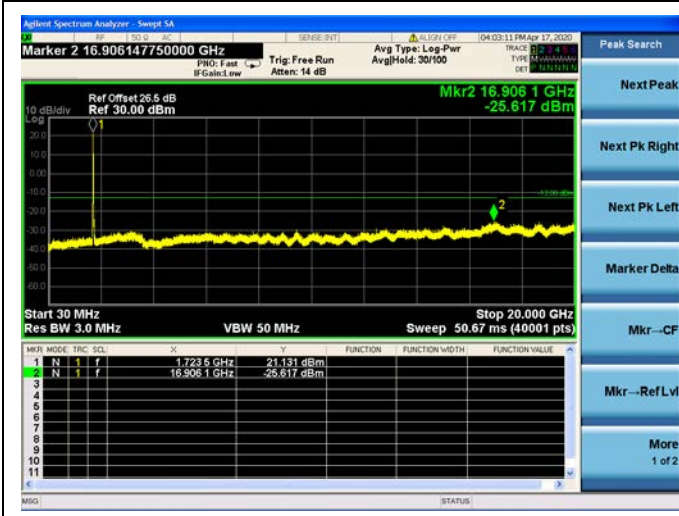


Band 66/ 15MHz/High CH/16QAM

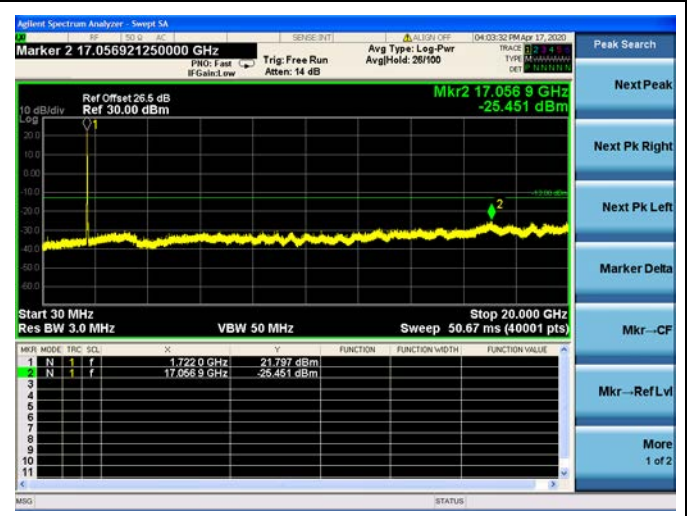




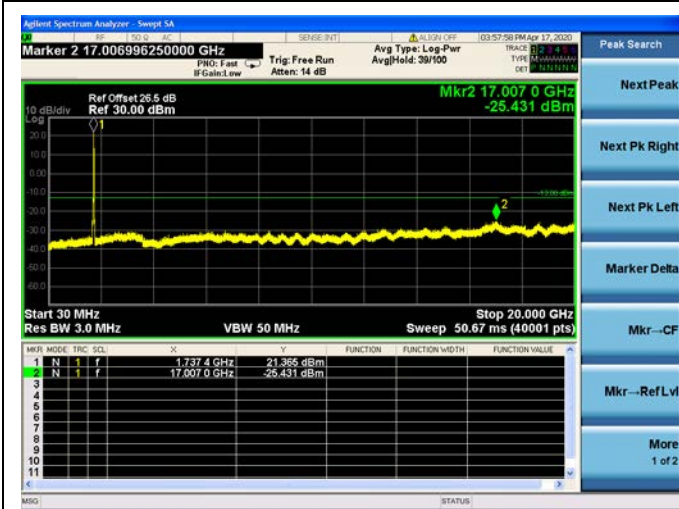
Band 66/ 20MHz/ Low CH/QPSK



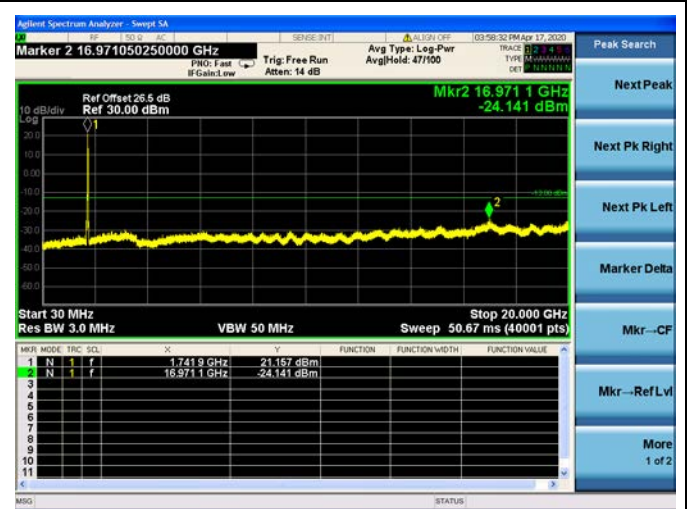
Band 66/ 20MHz/ Low CH/16QAM



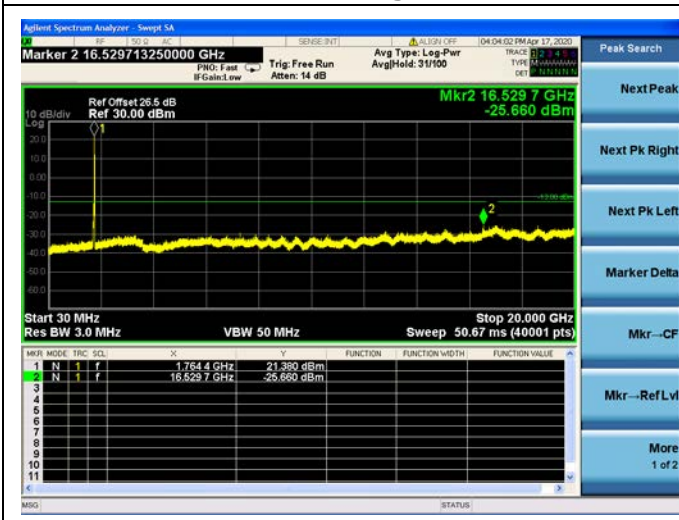
Band 66/ 20MHz/Mid CH/QPSK



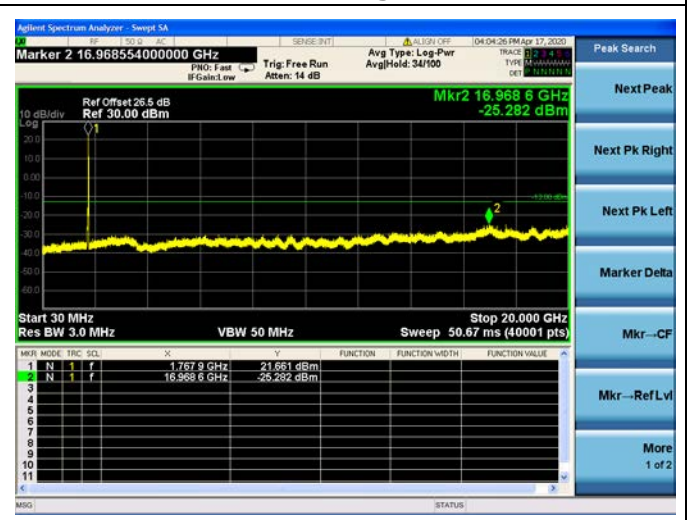
Band 66/ 20MHz/Mid CH/16QAM



Band 66/ 20MHz/High CH/QPSK



Band 66/ 20MHz/High CH/16QAM





2.6. Band Edge

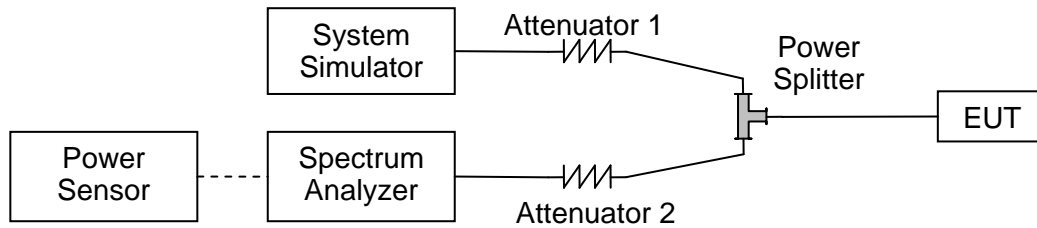
2.6.1. Requirement

According to FCC section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 24.238(a), The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(h), For operations in the 1710–1755MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

2.6.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.



Band2 / 1.4MHz / Low CH / QPSK / 1 RB



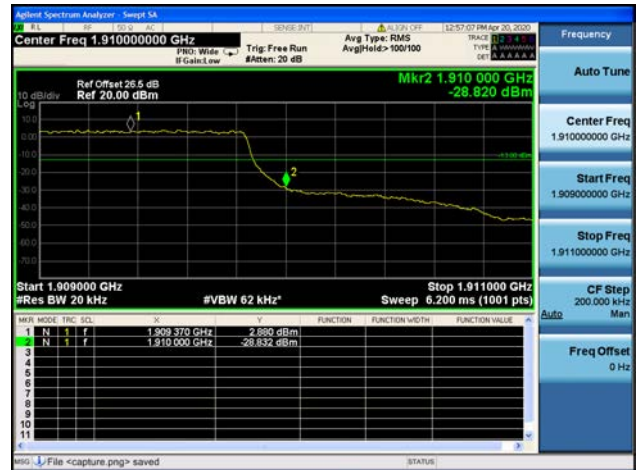
Band2 / 1.4MHz / Low CH / QPSK / FULL RB



Band2 / 1.4MHz / High CH / QPSK / 1 RB



Band2 / 1.4MHz / High CH / QPSK / FULL RB



Band2 / 3MHz / Low CH / QPSK / 1 RB

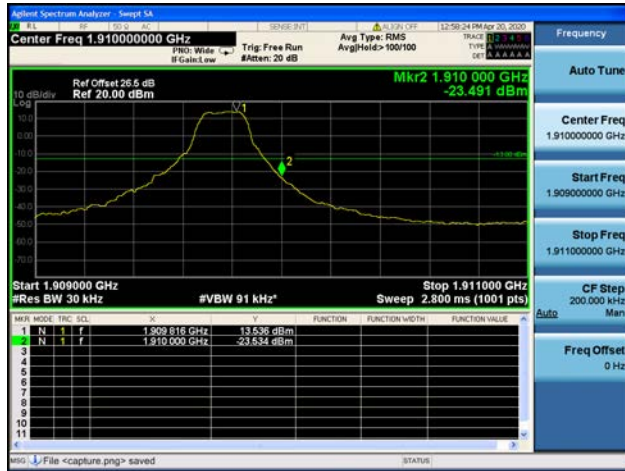


Band2 / 3MHz / Low CH / QPSK / FULL RB





Band2 / 3MHz / High CH / QPSK / 1 RB



Band2 / 3MHz / High CH / QPSK / FULL RB



Band2 / 5MHz / Low CH / QPSK / 1 RB



Band2 / 5MHz / Low CH / QPSK / FULL RB



Band2 / 5MHz / High CH / QPSK / 1 RB



Band2 / 5MHz / High CH / QPSK / FULL RB





Band2 / 10MHz / Low CH / QPSK / 1 RB



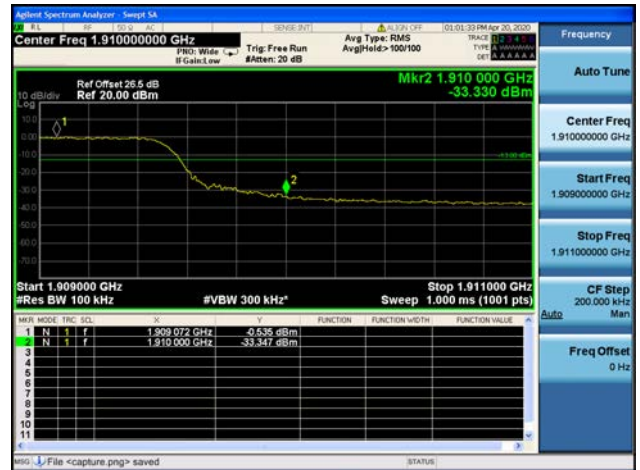
Band2 / 10MHz / Low CH / QPSK / FULL RB



Band2 / 10MHz / High CH / QPSK / 1 RB



Band2 / 10MHz / High CH / QPSK / FULL RB



Band2 / 15MHz / Low CH / QPSK / 1 RB



Band2 / 15MHz / Low CH / QPSK / FULL RB





Band2 / 15MHz / High CH / QPSK / 1 RB



Band2 / 15MHz / High CH / QPSK / FULL RB



Band2 / 20MHz / Low CH / QPSK / 1 RB



Band2 / 20MHz / Low CH / QPSK / FULL RB



Band2 / 20MHz / High CH / QPSK / 1 RB



Band2 / 20MHz / High CH / QPSK / FULL RB





Band4 / 1.4MHz / Low CH / QPSK / 1 RB



Band4 / 1.4MHz / Low CH / QPSK / FULL RB



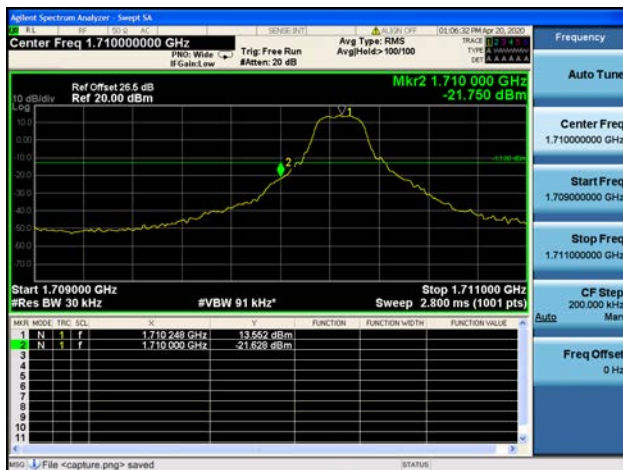
Band4 / 1.4MHz / High CH / QPSK / 1 RB



Band4 / 1.4MHz / High CH / QPSK / FULL RB



Band4 / 3MHz / Low CH / QPSK / 1 RB



Band4 / 3MHz / Low CH / QPSK / FULL RB





Band4 / 3MHz / High CH / QPSK / 1 RB



Band4 / 3MHz / High CH / QPSK / FULL RB



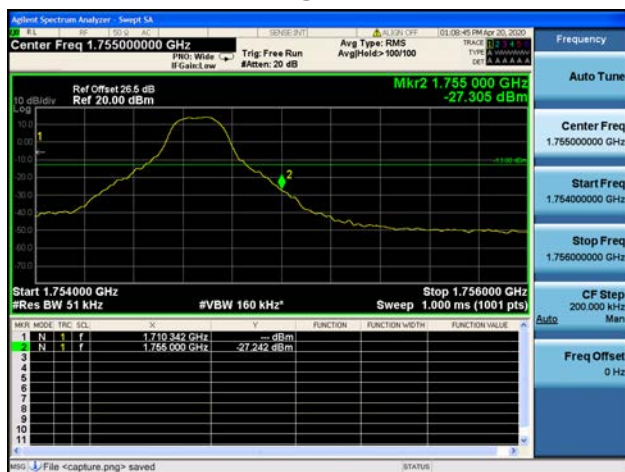
Band4 / 5MHz / Low CH / QPSK / 1 RB



Band4 / 5MHz / Low CH / QPSK / FULL RB



Band4 / 5MHz / High CH / QPSK / 1 RB



Band4 / 5MHz / High CH / QPSK / FULL RB





Band4 / 10MHz / Low CH / QPSK / 1 RB



Band4 / 10MHz / Low CH / QPSK / FULL RB



Band4 / 10MHz / High CH / QPSK / 1 RB



Band4 / 10MHz / High CH / QPSK / FULL RB



Band4 / 15MHz / Low CH / QPSK / 1 RB



Band4 / 15MHz / Low CH / QPSK / FULL RB





Band4 / 15MHz / High CH / QPSK / 1 RB



Band4 / 15MHz / High CH / QPSK / FULL RB



Band4 / 20MHz / Low CH / QPSK / 1 RB



Band4 / 20MHz / Low CH / QPSK / FULL RB



Band4 / 20MHz / High CH / QPSK / 1 RB



Band4 / 20MHz / High CH / QPSK / FULL RB





Band5 / 1.4MHz / Low CH / QPSK / 1 RB



Band5 / 1.4MHz / Low CH / QPSK / FULL RB



Band5 / 1.4MHz / High CH / QPSK / 1 RB



Band5 / 1.4MHz / High CH / QPSK / FULL RB



Band5 / 3MHz / Low CH / QPSK / 1 RB

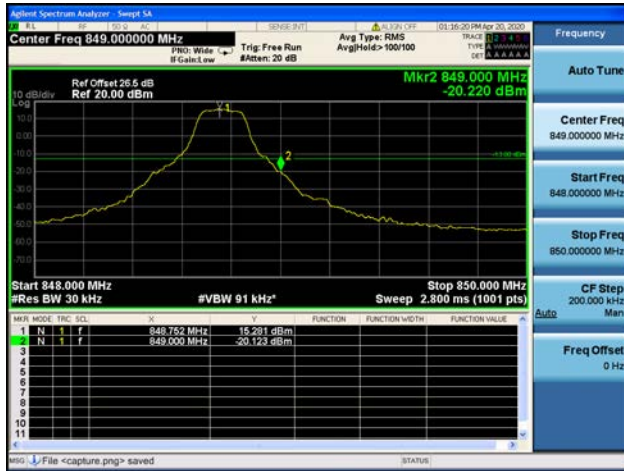


Band5 / 3MHz / Low CH / QPSK / FULL RB





Band5 / 3MHz / High CH / QPSK / 1 RB



Band5 / 3MHz / High CH / QPSK / FULL RB



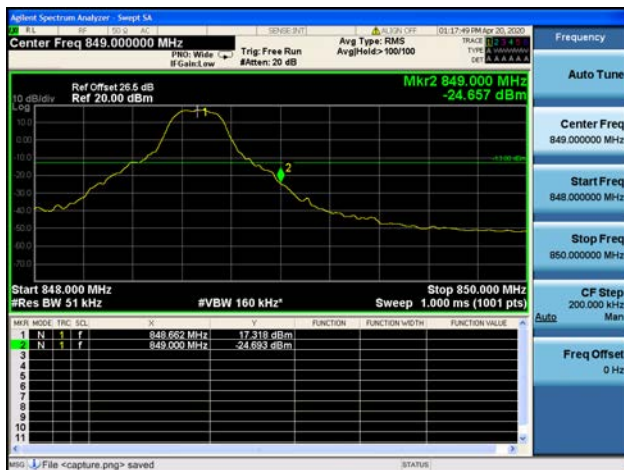
Band5 / 5MHz / Low CH / QPSK / 1 RB



Band5 / 5MHz / Low CH / QPSK / FULL RB



Band5 / 5MHz / High CH / QPSK / 1 RB



Band5 / 5MHz / High CH / QPSK / FULL RB





Band5 / 10MHz / Low CH / QPSK / 1 RB



Band5 / 10MHz / Low CH / QPSK / FULL RB



Band5 / 10MHz / High CH / QPSK / 1 RB



Band5 / 10MHz / High CH / QPSK / FULL RB

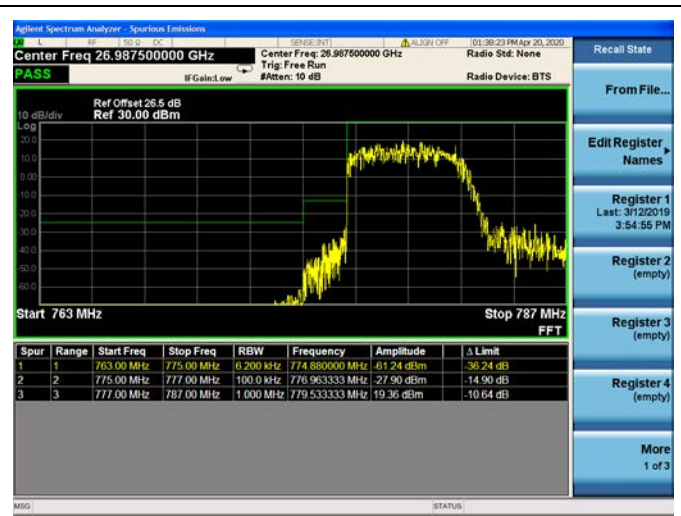




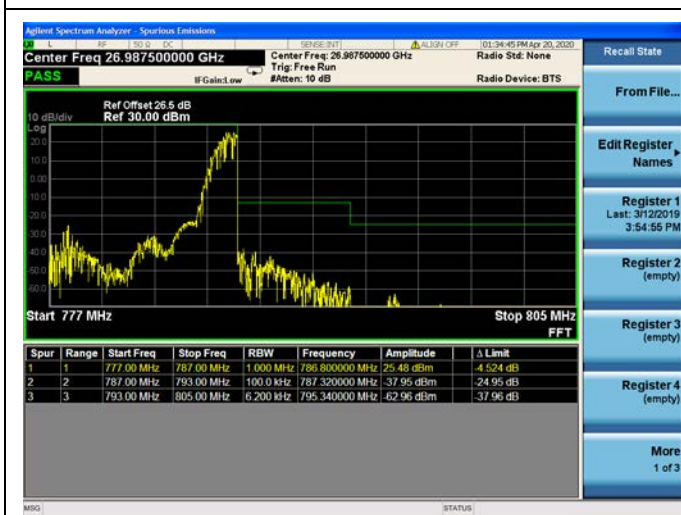
Band13 / 5MHz / Low CH / QPSK / 1 RB



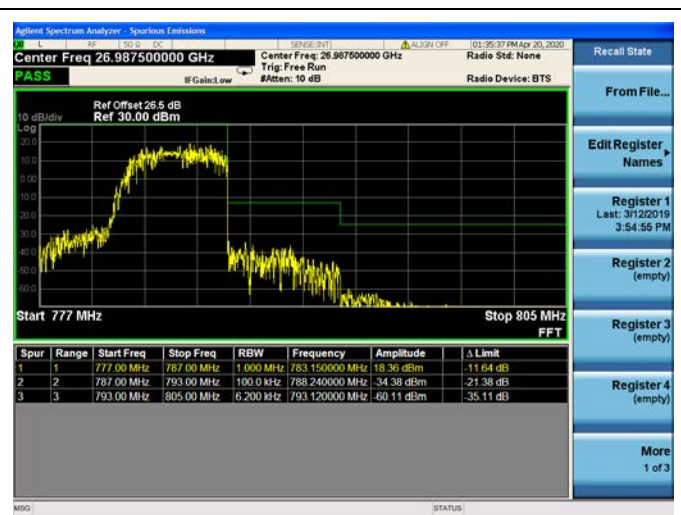
Band13 / 5MHz / Low CH / QPSK / Full RB



Band13 / 5MHz / High CH / QPSK / 1 RB

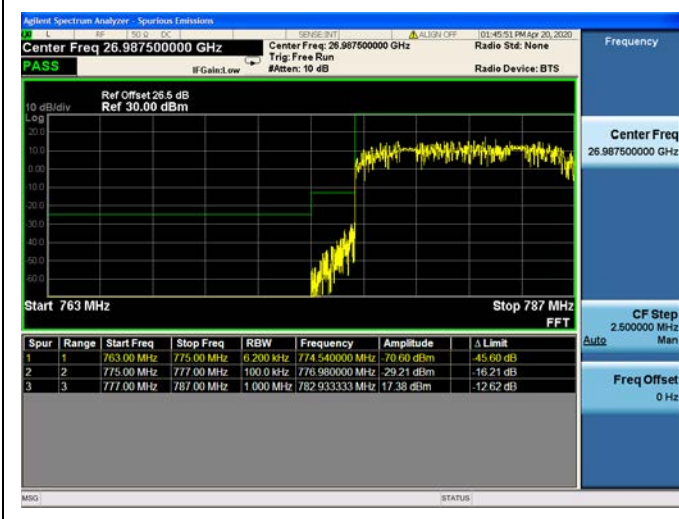


Band13 / 5MHz / High CH / QPSK / Full RB

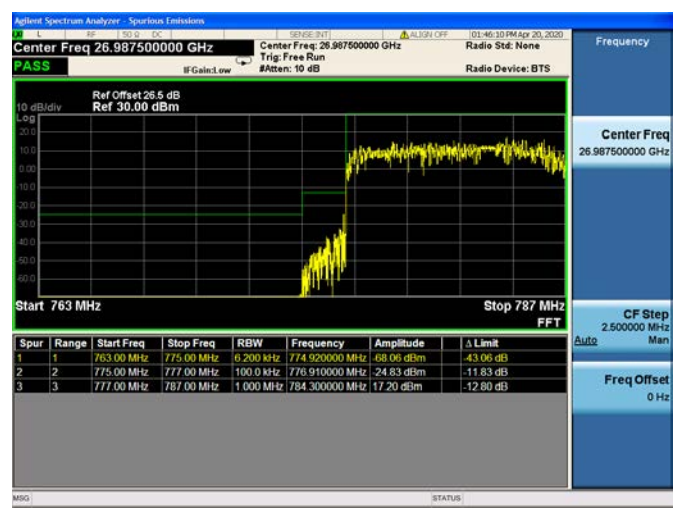




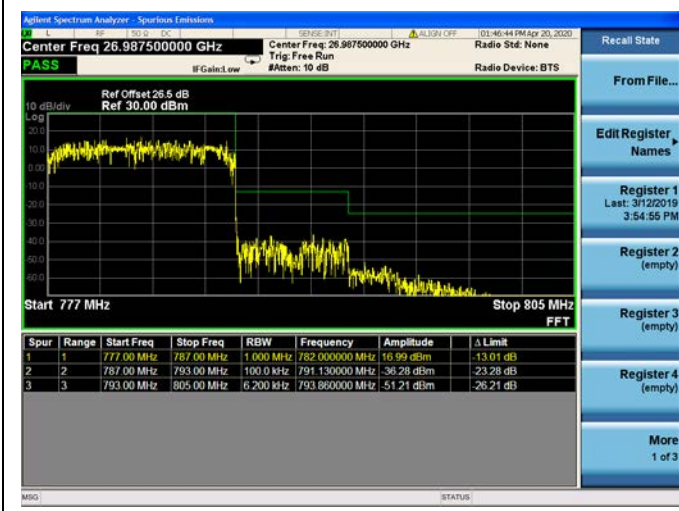
Band13 / 10MHz / Low CH / QPSK / 1 RB



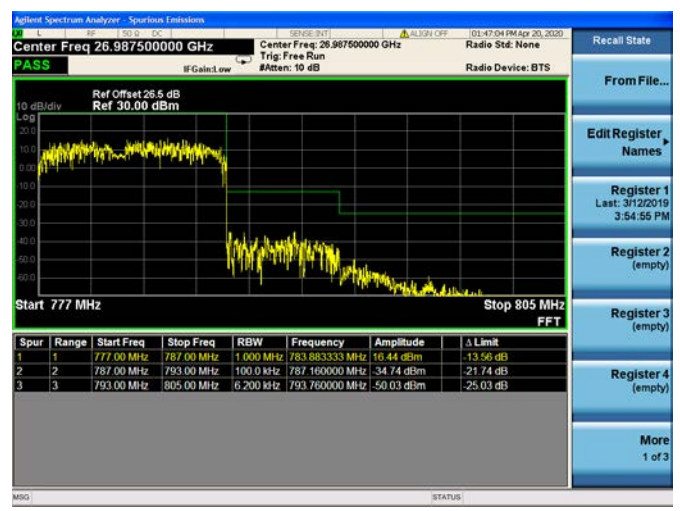
Band13 / 10MHz / Low CH / QPSK / Full RB



Band13 / 10MHz / High CH / QPSK / 1 RB



Band13 / 10MHz / High CH / QPSK / Full RB





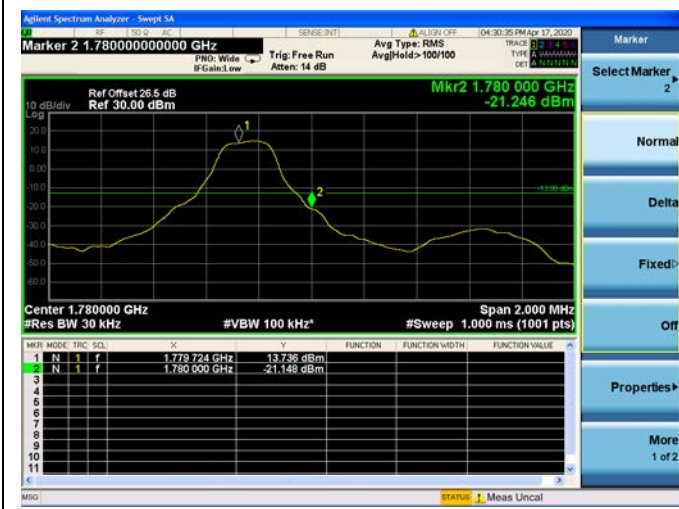
Band66 / 1.4MHz / Low CH / QPSK / 1 RB



Band66 / 1.4MHz / Low CH / QPSK / Full RB



Band66 / 1.4MHz / High CH / QPSK / 1 RB

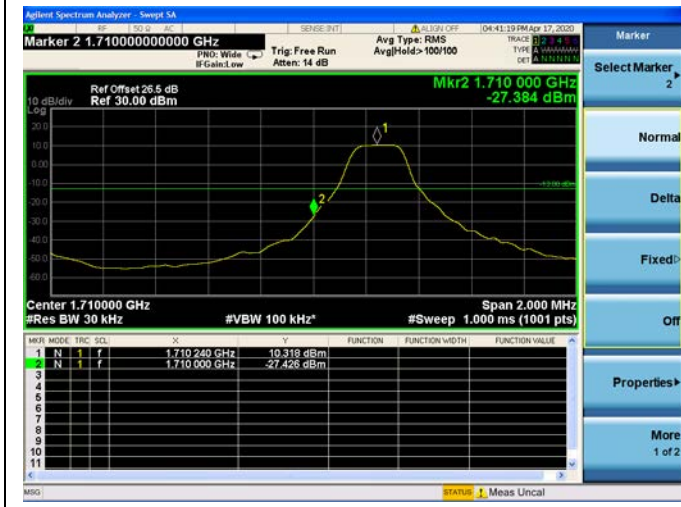


Band66 / 1.4MHz / High CH / QPSK / Full RB





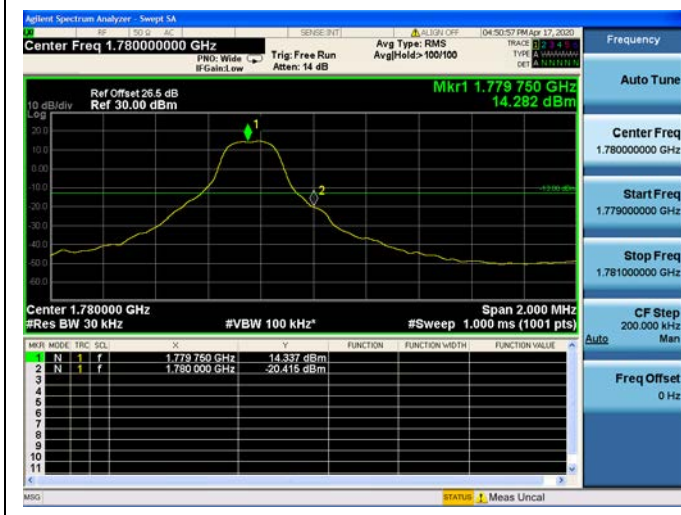
Band66 / 3MHz / Low CH / QPSK / 1 RB



Band66 / 3MHz / Low CH / QPSK / Full RB



Band66 / 3MHz / High CH / QPSK / 1 RB



Band66 / 3MHz / High CH / QPSK / Full RB





Band66 / 5MHz / Low CH / QPSK / 1 RB



Band66 / 5MHz / Low CH / QPSK / Full RB



Band66 / 5MHz / High CH / QPSK / 1 RB

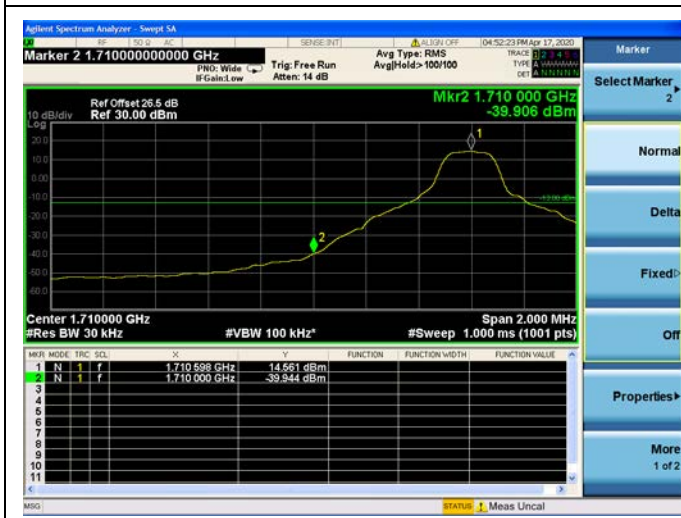


Band66 / 5MHz / High CH / QPSK / Full RB

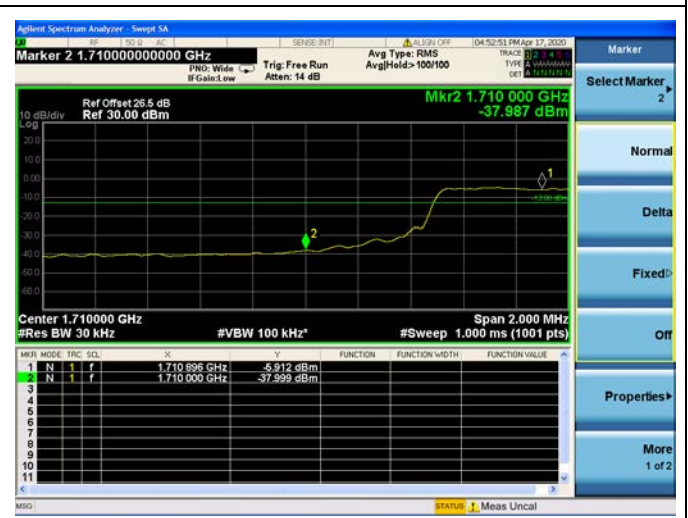




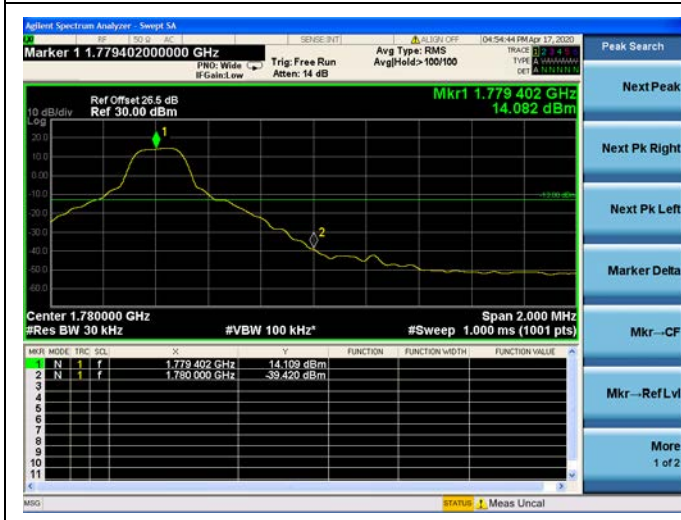
Band66 / 10MHz / Low CH / QPSK / 1 RB



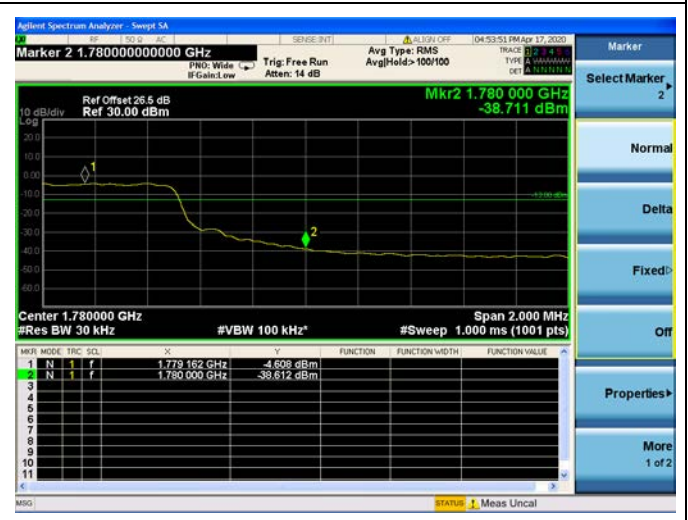
Band66 / 10MHz / Low CH / QPSK / Full RB



Band66 / 10MHz / High CH / QPSK / 1 RB

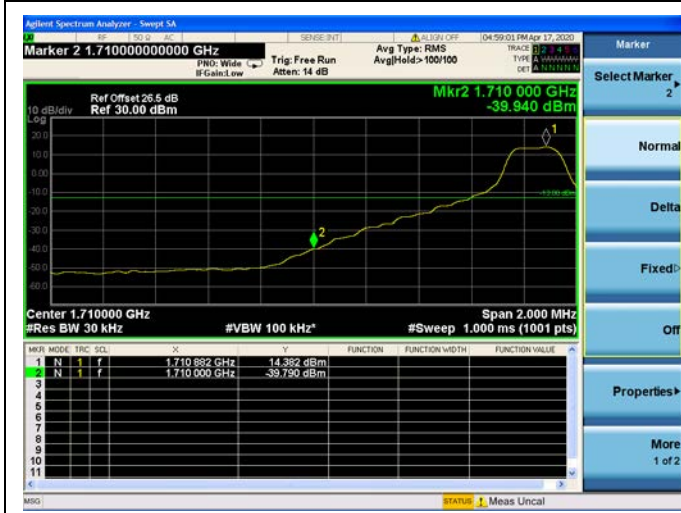


Band66 / 10MHz / High CH / QPSK / Full RB

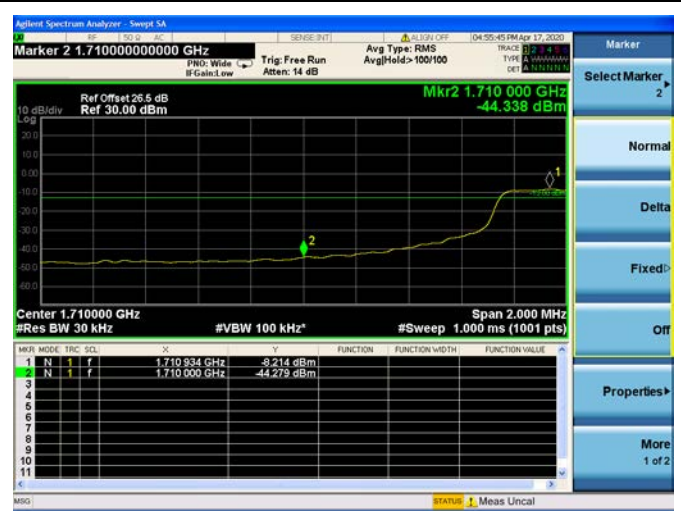




Band66 / 15MHz / Low CH / QPSK / 1 RB



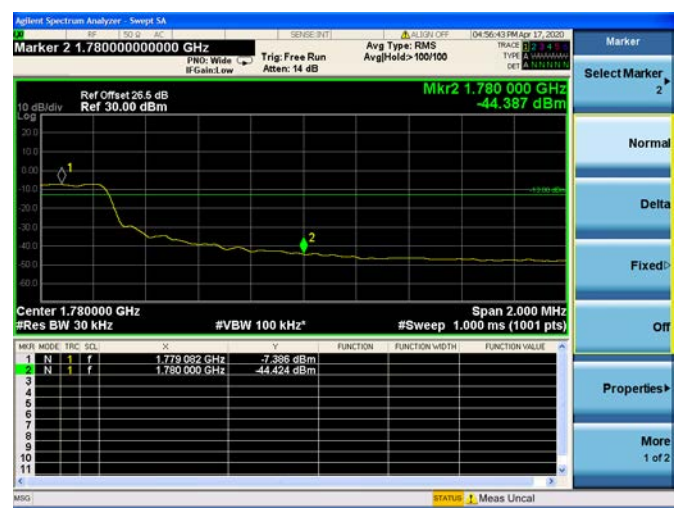
Band66 / 15MHz / Low CH / QPSK / Full RB



Band66 / 15MHz / High CH / QPSK / 1 RB

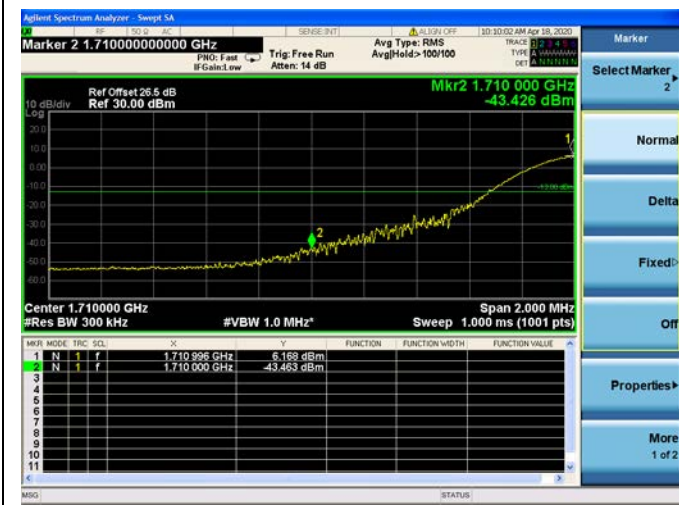


Band66 / 15MHz / High CH / QPSK / Full RB





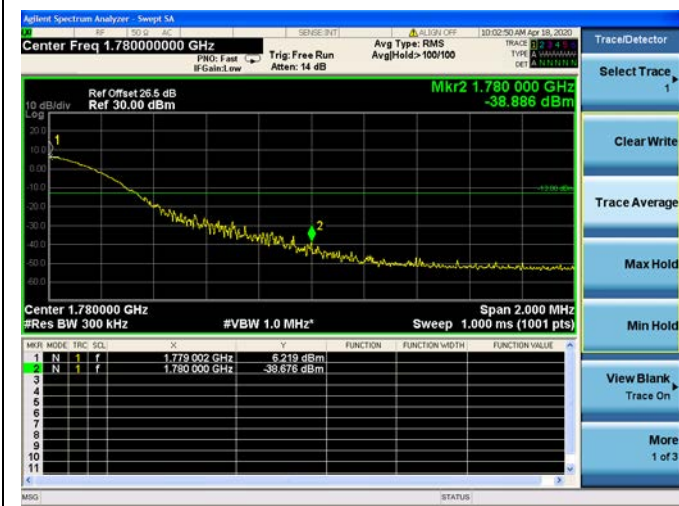
Band66 / 20MHz / Low CH / QPSK / 1 RB



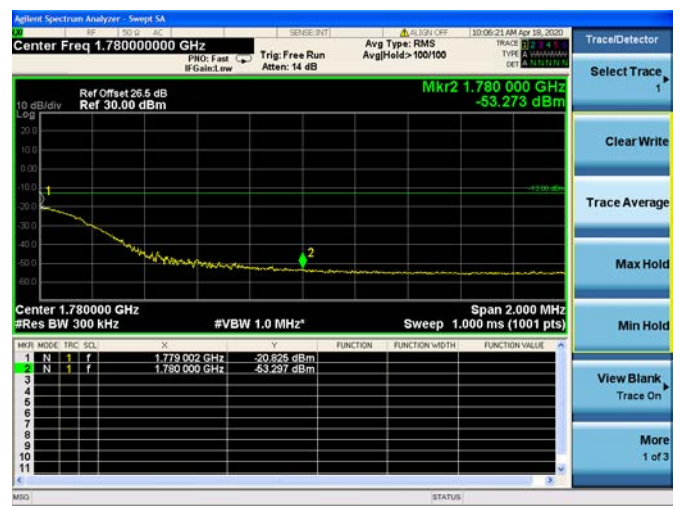
Band66 / 20MHz / Low CH / QPSK / Full RB



Band66 / 20MHz / High CH / QPSK / 1 RB



Band66 / 20MHz / High CH / QPSK / Full RB

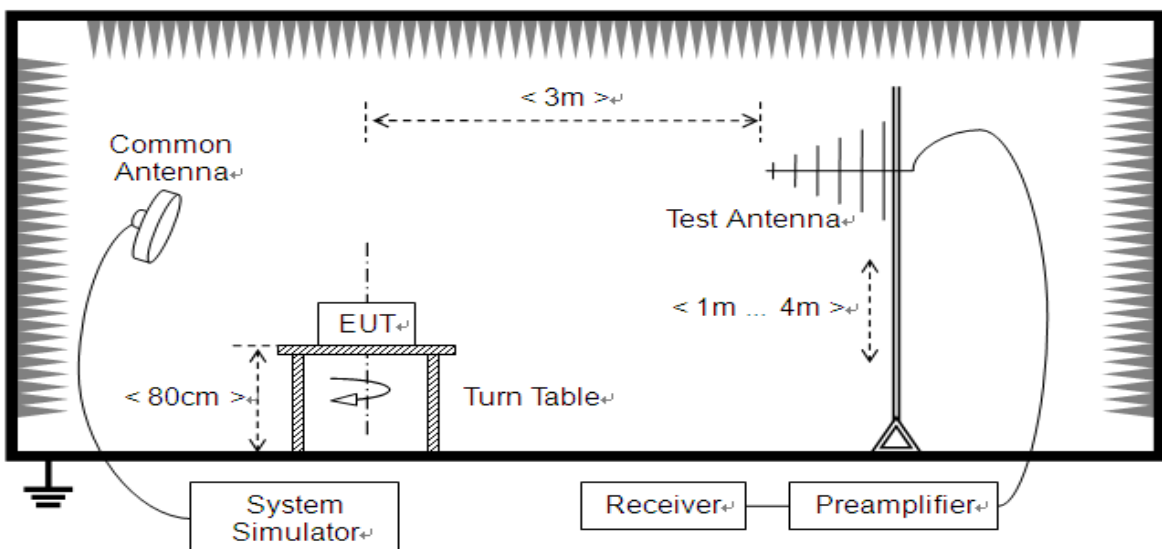


2.7. Radiated Spurious Emissions

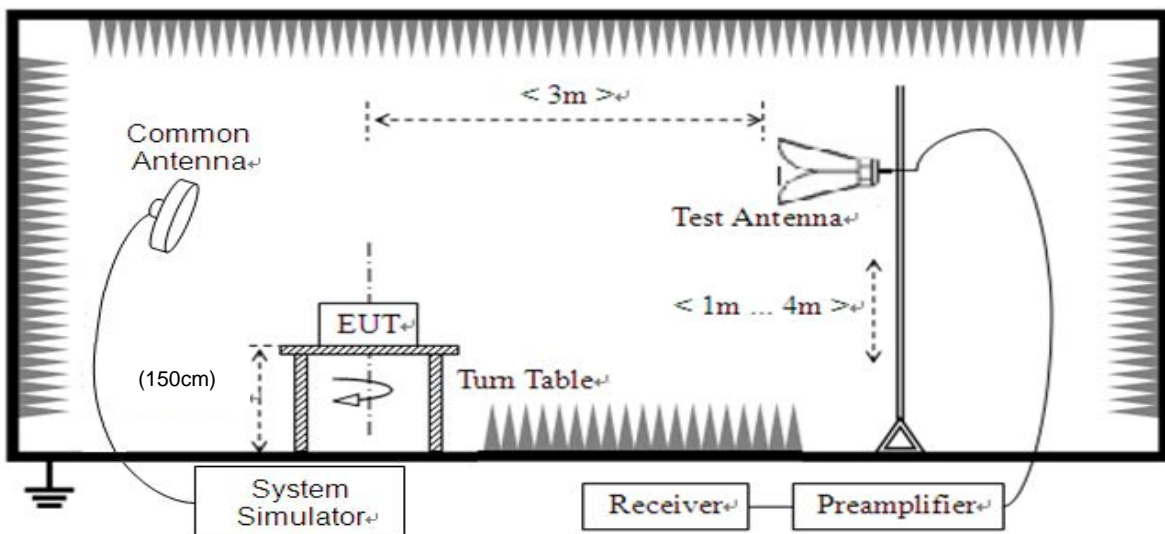
2.7.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.7.2. Test Description



(For the test frequency from 30MHz to1GHz)



(For the test frequency above 1GHz)



The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

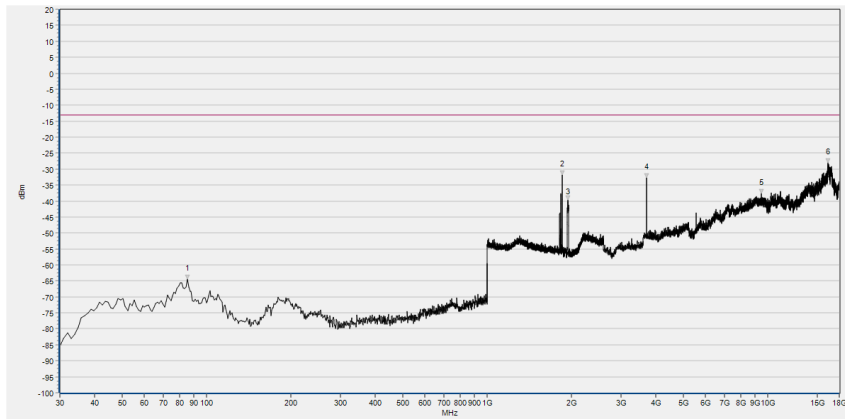
2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

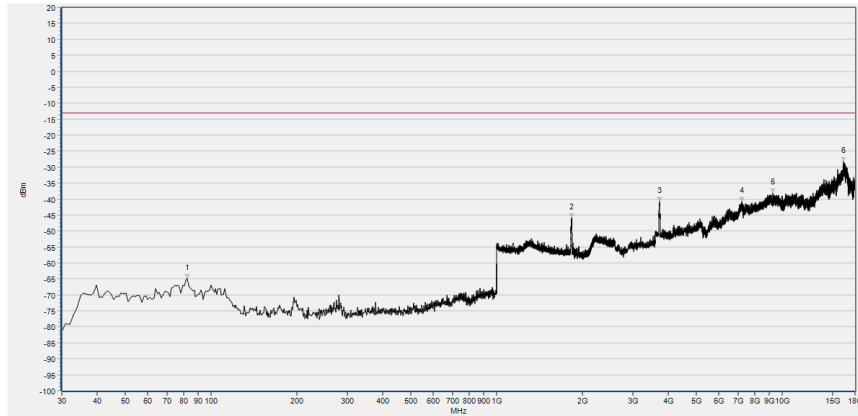
2.7.4. Test Result



LTE Band 2 20MHz BW, Low Channel, QPSK



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	85.290	-64.53	-13.00	Horizontal	PASS
2	1850.667	-31.80	-13.00	Horizontal	NA
3	1939.200	-39.73	-13.00	Horizontal	NA
4	3702.640	-32.83	-13.00	Horizontal	PASS
5	9499.200	-37.74	-13.00	Horizontal	PASS
6	16392.240	-28.00	-13.00	Horizontal	PASS



No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	82.380	-65.02	-13.00	Vertical	PASS
2	1830.412	-45.97	-13.00	Vertical	NA
3	3717.403	-40.69	-13.00	Vertical	PASS
4	7232.042	-40.76	-13.00	Vertical	PASS
5	9298.818	-38.01	-13.00	Vertical	PASS
6	16445.717	-28.23	-13.00	Vertical	PASS