

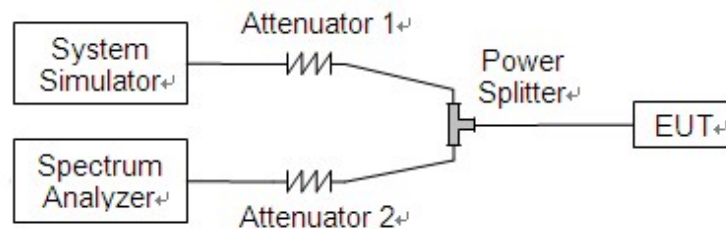
2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

Test Set:



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.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

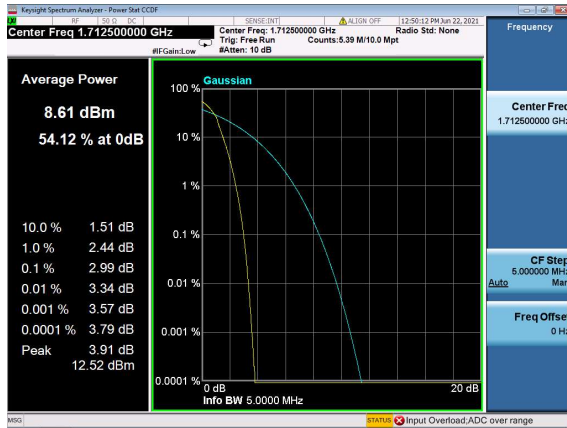
Record the maximum PAPR level associated with a probability of 0.1%.



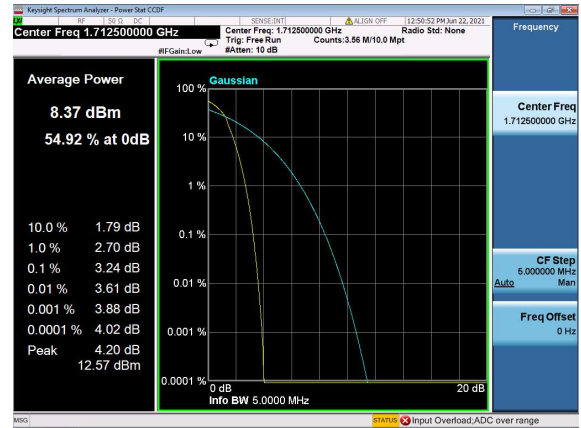
N66					
BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
5	Low	BPSK	2.99	<=13	PASS
5	Low	QPSK	3.24	<=13	PASS
5	Mid	BPSK	2.99	<=13	PASS
5	Mid	QPSK	3.28	<=13	PASS
5	High	BPSK	2.98	<=13	PASS
5	High	QPSK	3.29	<=13	PASS
10	Low	BPSK	3.22	<=13	PASS
10	Low	QPSK	3.56	<=13	PASS
10	Mid	BPSK	3.22	<=13	PASS
10	Mid	QPSK	3.55	<=13	PASS
10	High	BPSK	3.22	<=13	PASS
10	High	QPSK	3.56	<=13	PASS
15	Low	BPSK	3.13	<=13	PASS
15	Low	QPSK	3.38	<=13	PASS
15	Mid	BPSK	3.15	<=13	PASS
15	Mid	QPSK	3.43	<=13	PASS
15	High	BPSK	3.19	<=13	PASS
15	High	QPSK	3.46	<=13	PASS
20	Low	BPSK	3.28	<=13	PASS
20	Low	QPSK	3.64	<=13	PASS
20	Mid	BPSK	3.34	<=13	PASS
20	Mid	QPSK	3.68	<=13	PASS
20	High	BPSK	3.37	<=13	PASS
20	High	QPSK	3.71	<=13	PASS



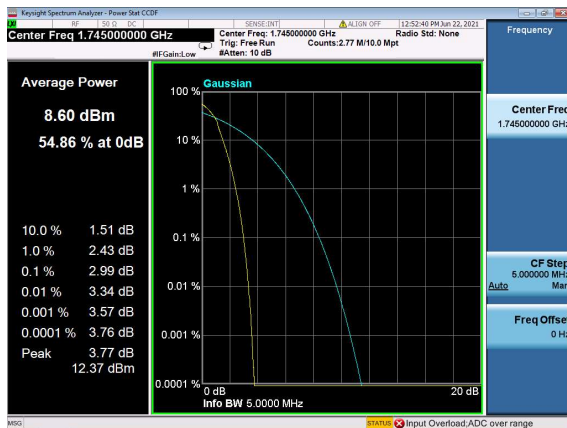
N66(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_L
Low_CH



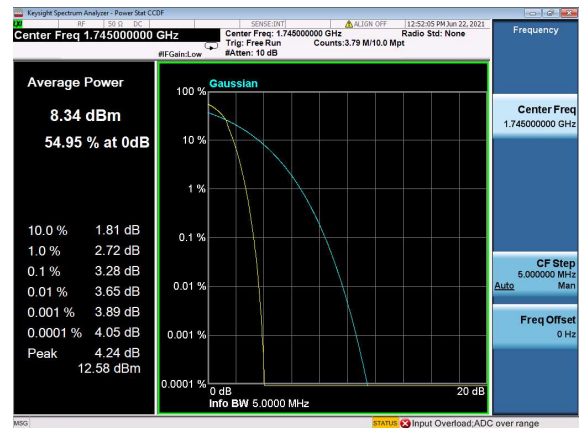
N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_L
ow_CH



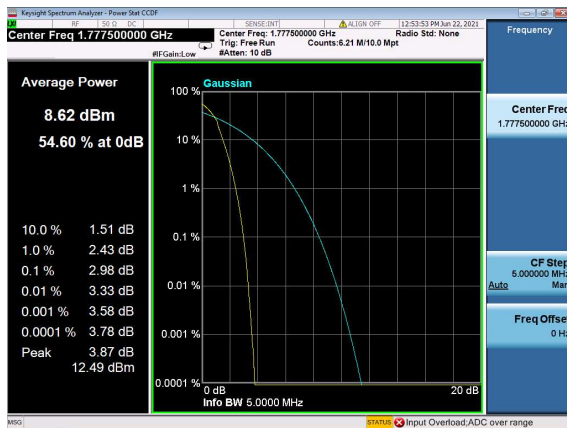
N66(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_
Mid_CH



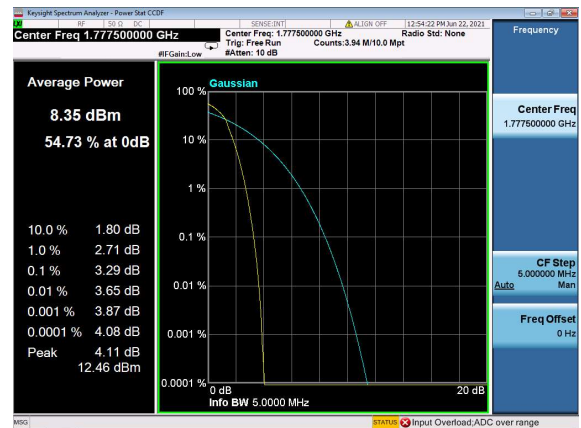
N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_
Mid_CH



N66(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_
High_CH

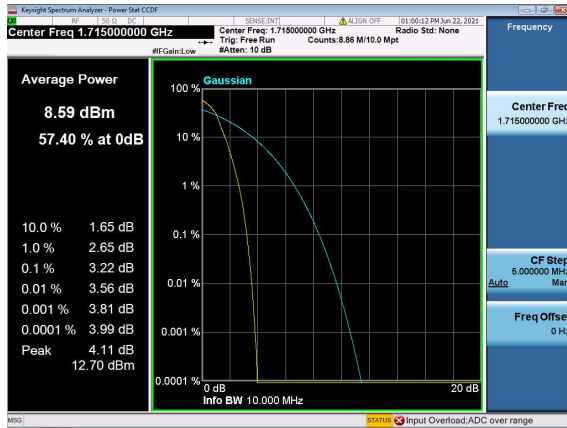


N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_
High_CH

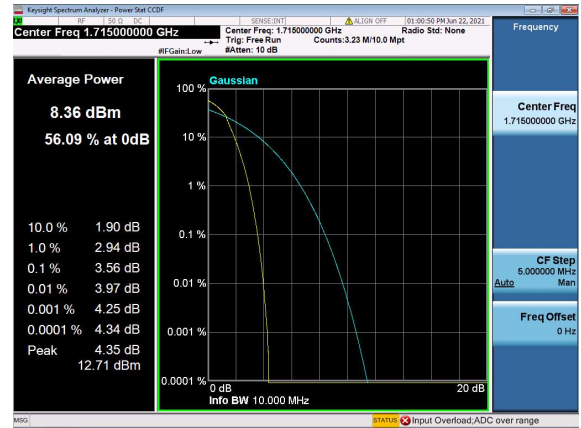




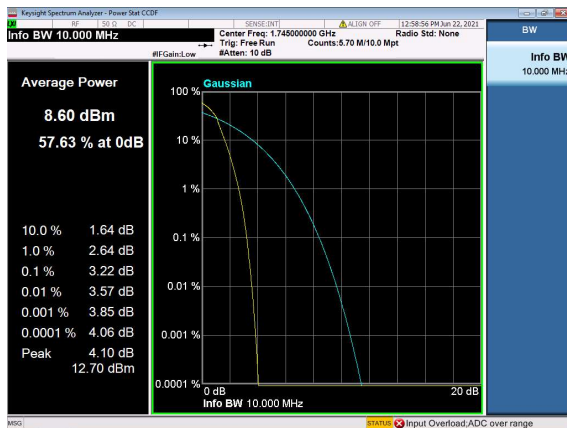
N66(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full _Low_CH



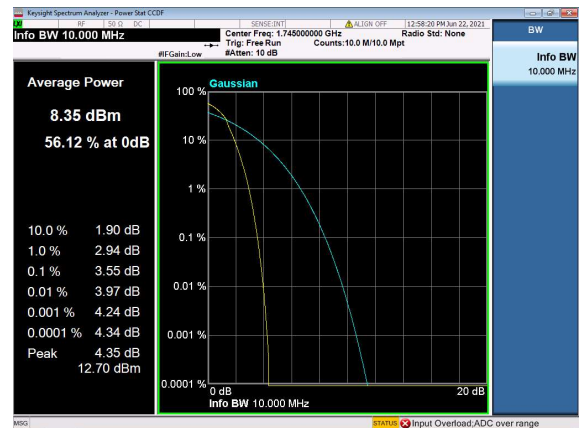
N66(10M)_DFT-s-OFDM_QPSK_Outer_Full Low_CH



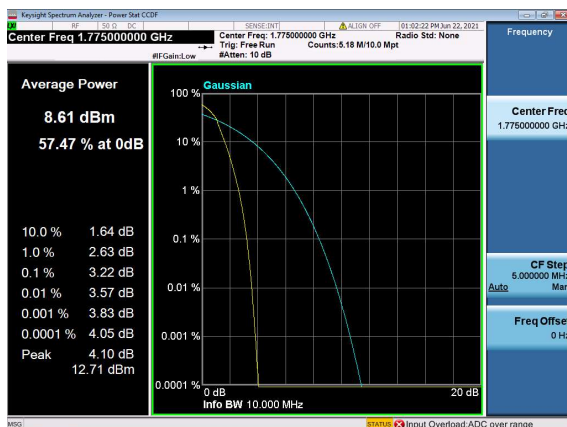
N66(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full _Mid_CH



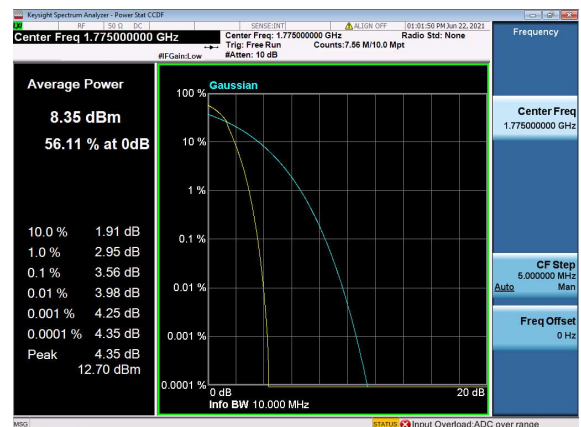
N66(10M)_DFT-s-OFDM_QPSK_Outer_Full Mid_CH



N66(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full _High_CH

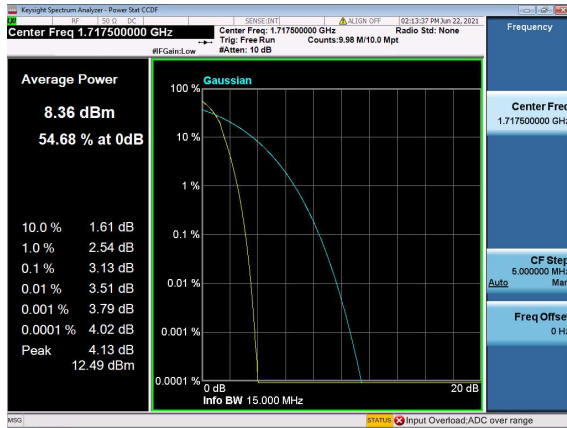


N66(10M)_DFT-s-OFDM_QPSK_Outer_Full High_CH

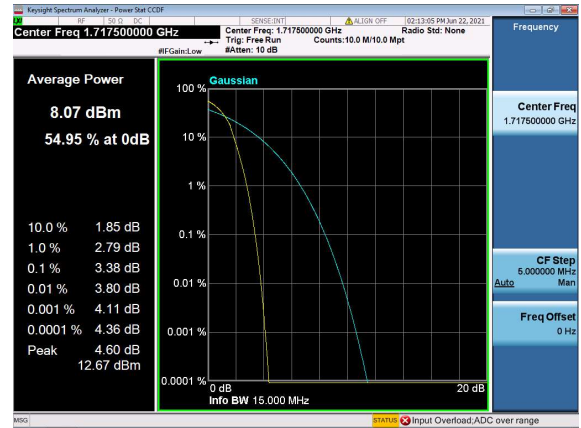




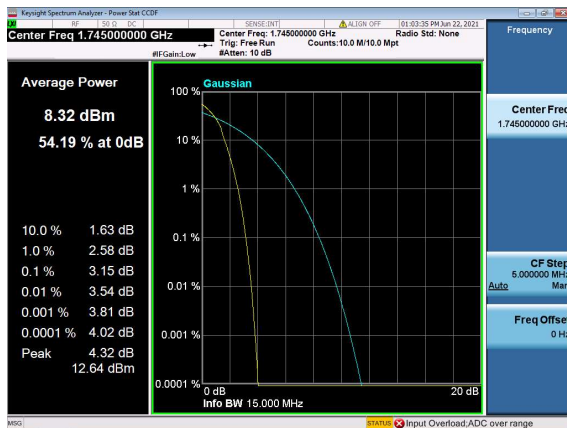
N66(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_Low_CH



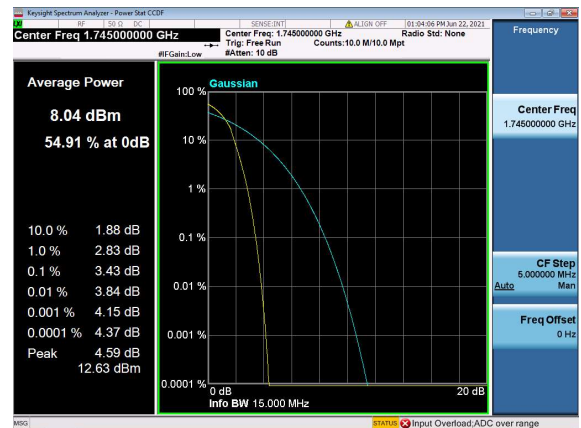
N66(15M)_DFT-s-OFDM_QPSK_Outer_Full
Low_CH



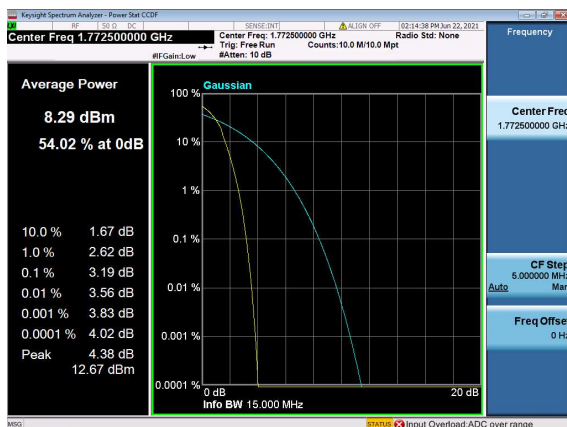
N66(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_Mid_CH



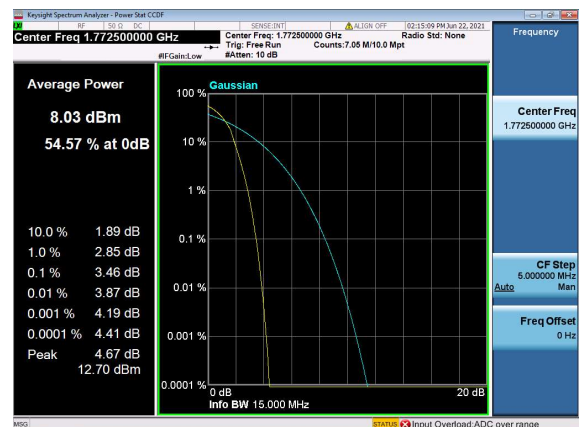
N66(15M)_DFT-s-OFDM_QPSK_Outer_Full
Mid_CH



N66(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_High_CH

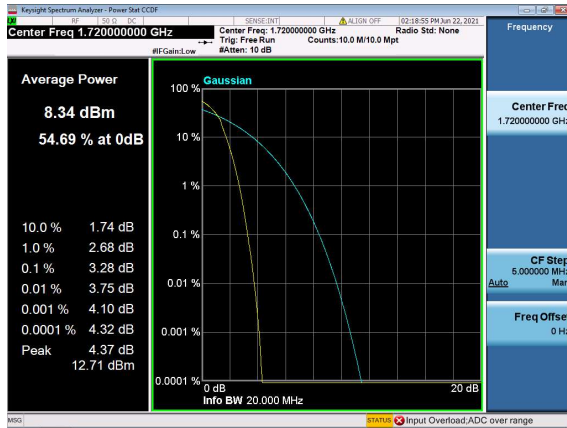


N66(15M)_DFT-s-OFDM_QPSK_Outer_Full
High_CH

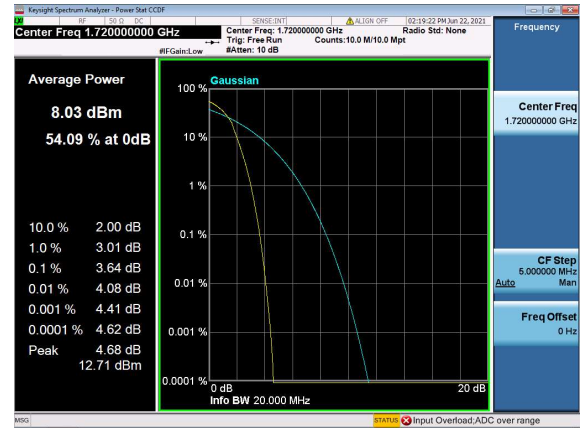




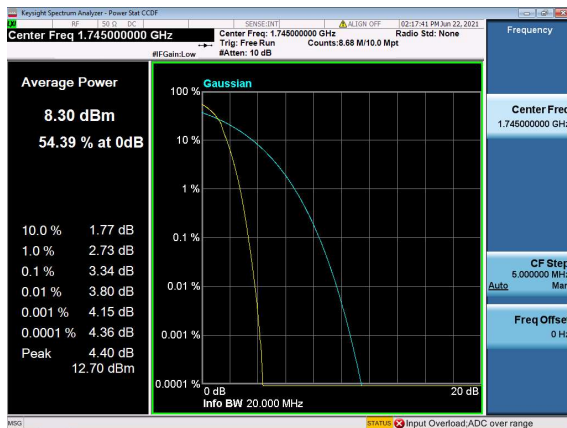
N66(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_Low_CH



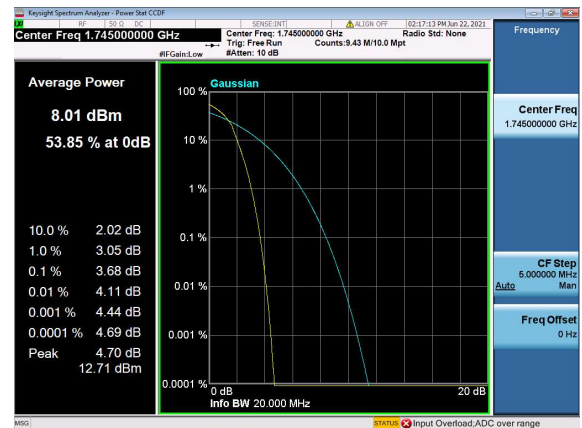
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Low_CH



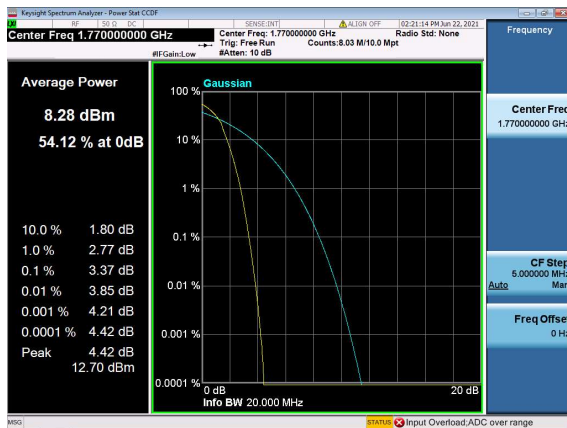
N66(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_Mid_CH



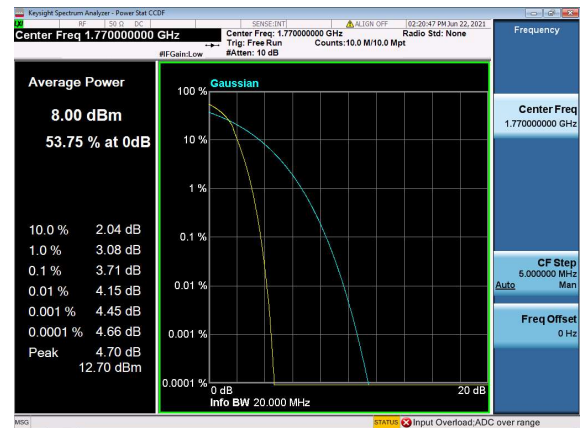
N66(20M)_DFT-s-OFDM_QPSK_Outer_Full
Mid_CH



N66(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_High_CH



N66(20M)_DFT-s-OFDM_QPSK_Outer_Full
High_CH



2.5. Conducted Spurious Emissions

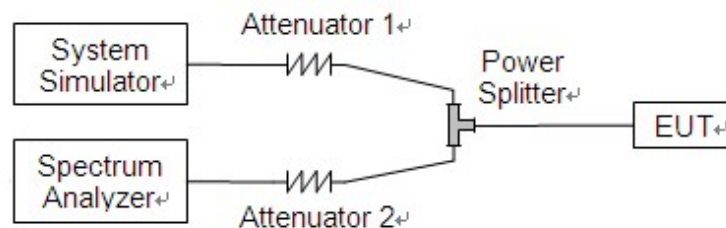
2.5.1. Requirement

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.

Additional requirement for N41:

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 $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

2.5.2. 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 50Ohm; 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.



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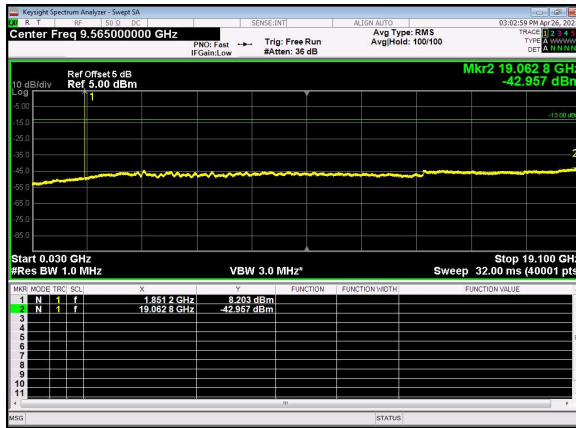
2.5.3. Test procedure

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

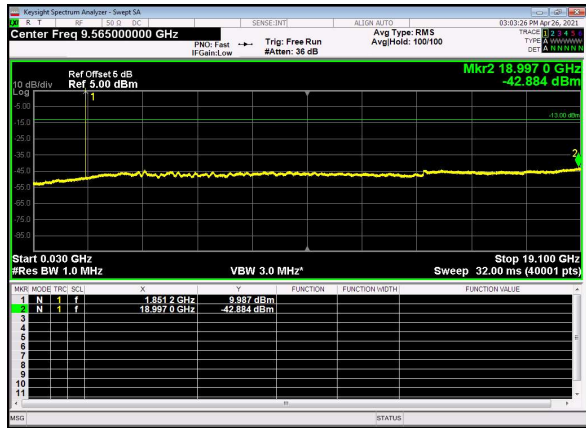
2.5.4. Test Result



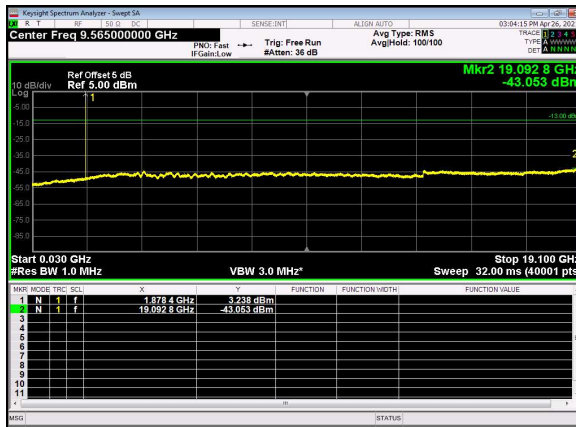
N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_
Left_Low_CH



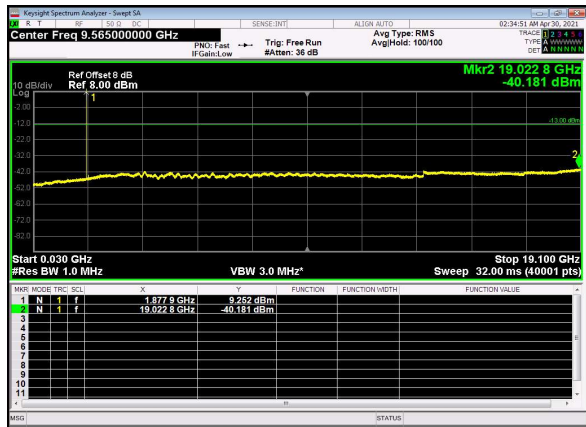
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_
Left_Low_CH



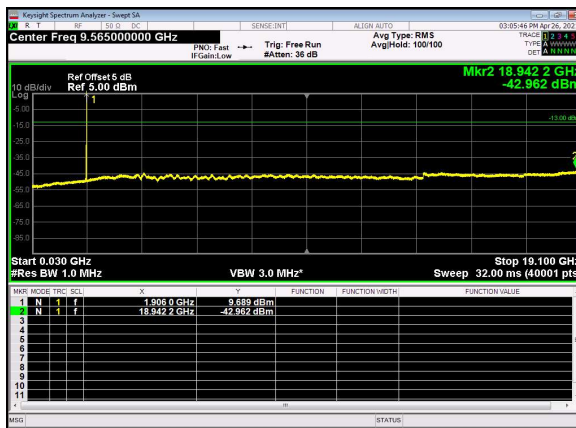
N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_
Left_Mid_CH



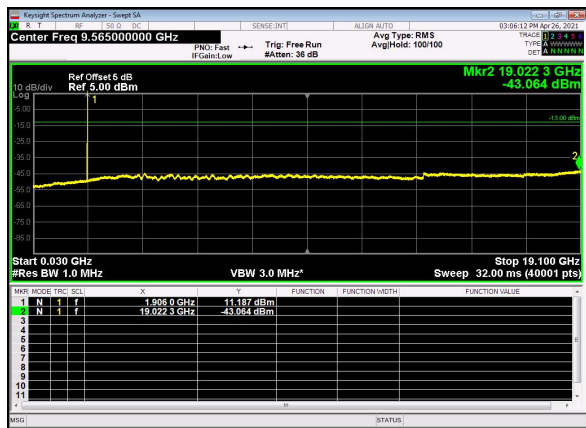
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_
Left_Mid_CH

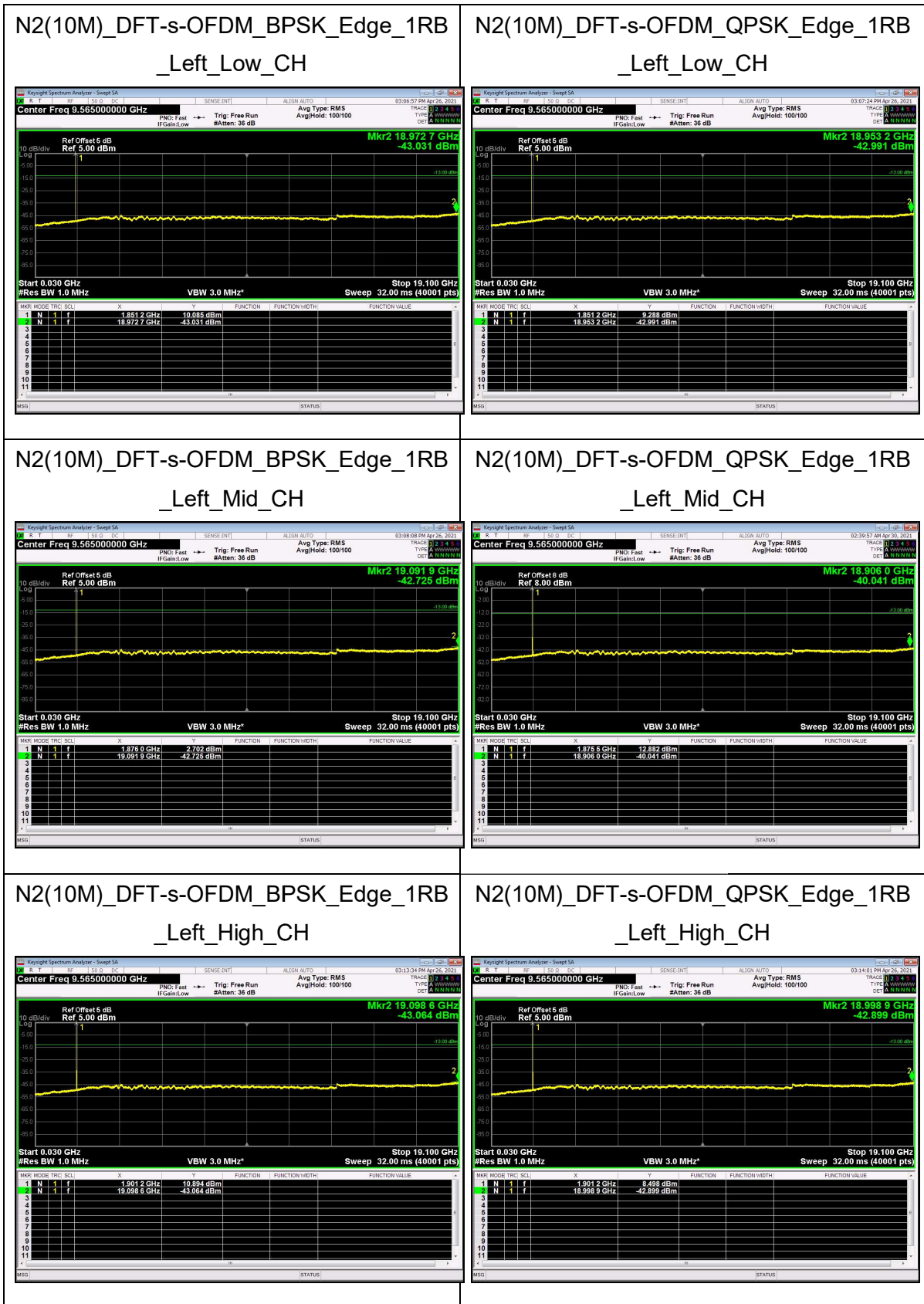


N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_
Left_High_CH



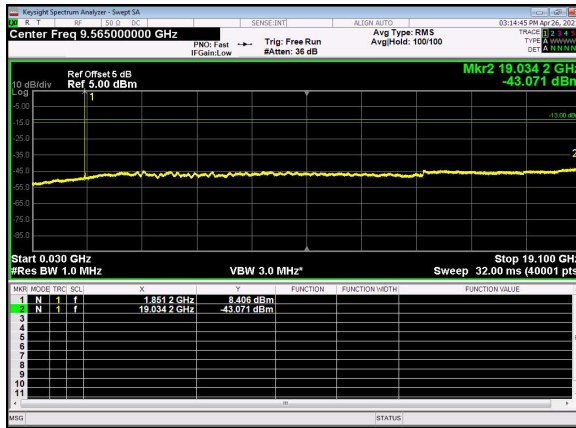
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_
Left_High_CH



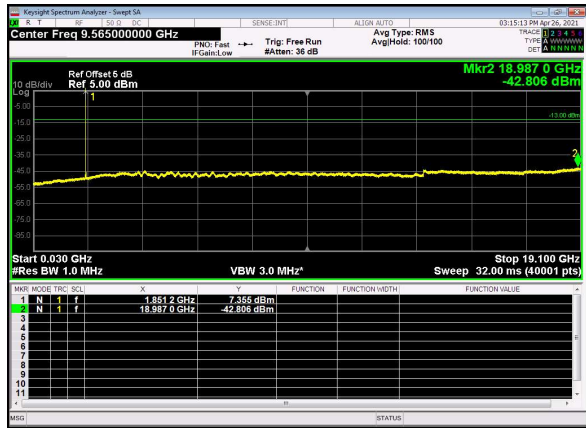




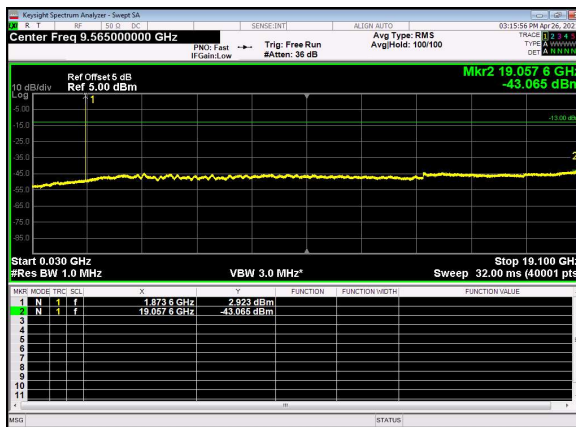
N2(15M)_DFT-s-OFDM_BPSK_Edge_1RB
_Left_Low_CH



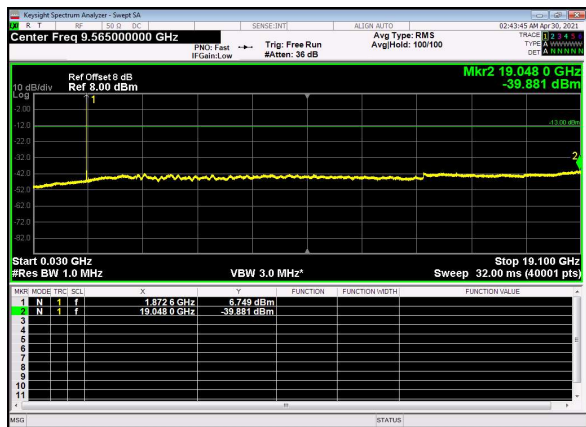
N2(15M)_DFT-s-OFDM_QPSK_Edge_1RB
_Left_Low_CH



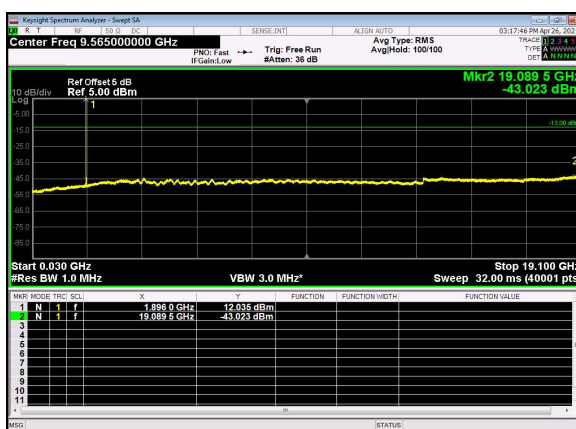
N2(15M)_DFT-s-OFDM_BPSK_Edge_1RB
_Left_Mid_CH



N2(15M)_DFT-s-OFDM_QPSK_Edge_1RB
_Left_Mid_CH



N2(15M)_DFT-s-OFDM_BPSK_Edge_1RB
_Left_High_CH



N2(15M)_DFT-s-OFDM_QPSK_Edge_1RB
_Left_High_CH

