



REPORT No.: SZ24080312W05

B2	20	High	19100	1900	16QAM	5.10	PASS
B4	1.4	Low	19957	1710.7	QPSK	4.18	PASS
B4	1.4	Low	19957	1710.7	16QAM	5.02	PASS
B4	1.4	Mid	20175	1732.5	QPSK	5.31	PASS
B4	1.4	Mid	20175	1732.5	16QAM	5.95	PASS
B4	1.4	High	20393	1754.3	QPSK	4.36	PASS
B4	1.4	High	20393	1754.3	16QAM	5.01	PASS
B4	3	Low	19965	1711.5	QPSK	4.29	PASS
B4	3	Low	19965	1711.5	16QAM	5.18	PASS
B4	3	Mid	20175	1732.5	QPSK	5.32	PASS
B4	3	Mid	20175	1732.5	16QAM	6.08	PASS
B4	3	High	20385	1753.5	QPSK	4.41	PASS
B4	3	High	20385	1753.5	16QAM	5.12	PASS
B4	5	Low	19975	1712.5	QPSK	4.77	PASS
B4	5	Low	19975	1712.5	16QAM	5.48	PASS
B4	5	Mid	20175	1732.5	QPSK	5.44	PASS
B4	5	Mid	20175	1732.5	16QAM	6.04	PASS
B4	5	High	20375	1752.5	QPSK	4.86	PASS
B4	5	High	20375	1752.5	16QAM	5.37	PASS
B4	10	Low	20000	1715	QPSK	5.06	PASS
B4	10	Low	20000	1715	16QAM	5.72	PASS
B4	10	Mid	20175	1732.5	QPSK	5.54	PASS
B4	10	Mid	20175	1732.5	16QAM	6.12	PASS
B4	10	High	20350	1750	QPSK	4.87	PASS
B4	10	High	20350	1750	16QAM	5.49	PASS
B66	1.4	Low	131979	1710.7	QPSK	6.93	PASS
B66	1.4	Low	131979	1710.7	16QAM	6.26	PASS
B66	1.4	Mid	132322	1745	QPSK	5.67	PASS
B66	1.4	Mid	132322	1745	16QAM	6.35	PASS
B66	1.4	High	132665	1779.3	QPSK	5.87	PASS
B66	1.4	High	132665	1779.3	16QAM	6.54	PASS
B66	3	Low	131987	1711.5	QPSK	6.12	PASS
B66	3	Low	131987	1711.5	16QAM	6.26	PASS
B66	3	Mid	132322	1745	QPSK	5.94	PASS
B66	3	Mid	132322	1745	16QAM	6.26	PASS
B66	3	High	132657	1778.5	QPSK	5.92	PASS
B66	3	High	132657	1778.5	16QAM	6.56	PASS
B66	5	Low	131997	1712.5	QPSK	5.70	PASS



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B66	5	Low	131997	1712.5	16QAM	6.22	PASS
B66	5	Mid	132322	1745	QPSK	6.08	PASS
B66	5	Mid	132322	1745	16QAM	6.23	PASS
B66	5	High	132647	1777.5	QPSK	5.81	PASS
B66	5	High	132647	1777.5	16QAM	6.42	PASS
B66	10	Low	132022	1715	QPSK	6.45	PASS
B66	10	Low	132022	1715	16QAM	6.45	PASS
B66	10	Mid	132322	1745	QPSK	5.76	PASS
B66	10	Mid	132322	1745	16QAM	6.35	PASS
B66	10	High	132622	1775	QPSK	6.23	PASS
B66	10	High	132622	1775	16QAM	6.56	PASS
B66	15	Low	132047	1717.5	QPSK	5.83	PASS
B66	15	Low	132047	1717.5	16QAM	6.43	PASS
B66	15	Mid	132322	1745	QPSK	5.78	PASS
B66	15	Mid	132322	1745	16QAM	6.36	PASS
B66	15	High	132597	1772.5	QPSK	5.97	PASS
B66	15	High	132597	1772.5	16QAM	6.56	PASS
B66	20	Low	132072	1720	QPSK	5.90	PASS
B66	20	Low	132072	1720	16QAM	6.55	PASS
B66	20	Mid	132322	1745	QPSK	6.07	PASS
B66	20	Mid	132322	1745	16QAM	6.43	PASS
B66	20	High	132572	1770	QPSK	5.89	PASS
B66	20	High	132572	1770	16QAM	6.67	PASS



B2 / 1.4MHz / Low CH / QPSK



B2 / 1.4MHz / Low CH / 16QAM



B2 / 1.4MHz / Mid CH / QPSK



B2 / 1.4MHz / Mid CH / 16QAM



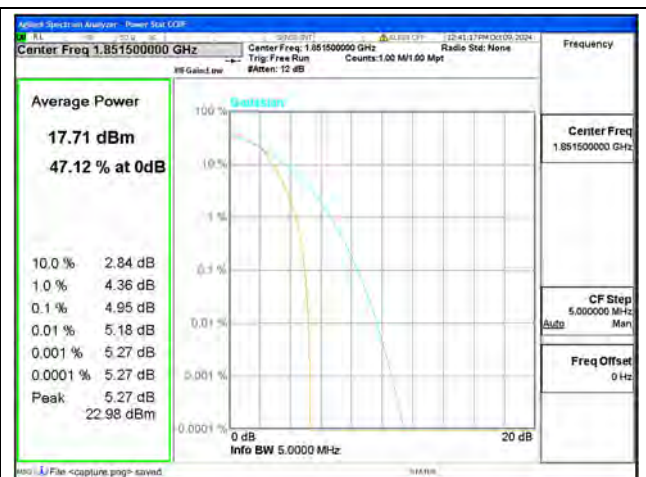
B2 / 1.4MHz / High CH / QPSK



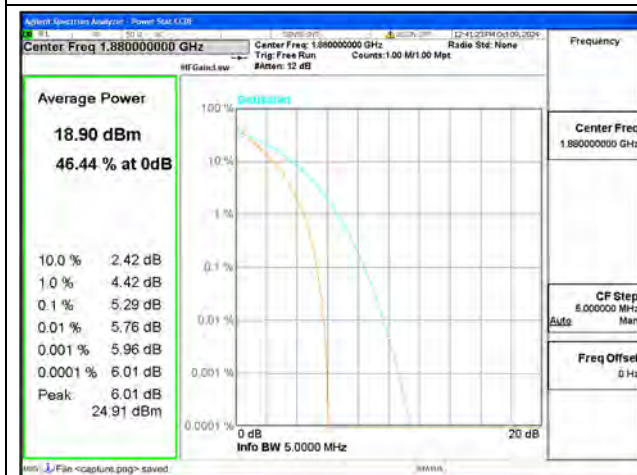
B2 / 1.4MHz / High CH / 16QAM



B2 / 3MHz / Low CH / QPSK



B2 / 3MHz / Low CH / 16QAM



B2 / 3MHz / Mid CH / QPSK



B2 / 3MHz / Mid CH / 16QAM



B2 / 3MHz / High CH / QPSK



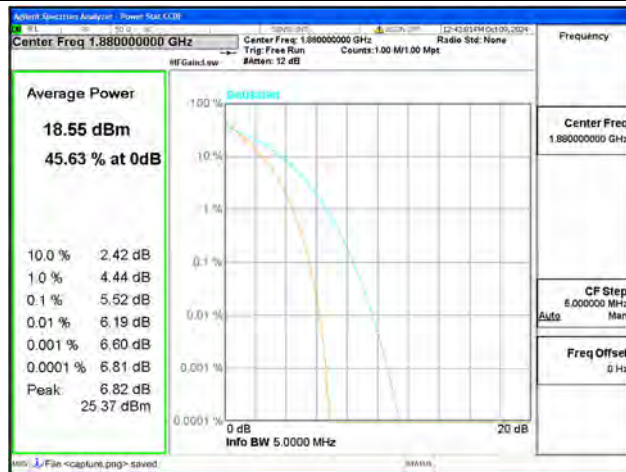
B2 / 3MHz / High CH / 16QAM



B2 / 5MHz / Low CH / QPSK



B2 / 5MHz / Low CH / 16QAM



B2 / 5MHz / Mid CH / QPSK



B2 / 5MHz / Mid CH / 16QAM



B2 / 5MHz / High CH / QPSK



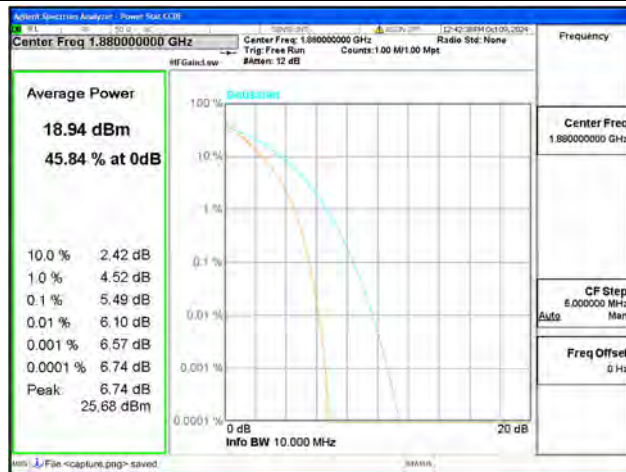
B2 / 5MHz / High CH / 16QAM



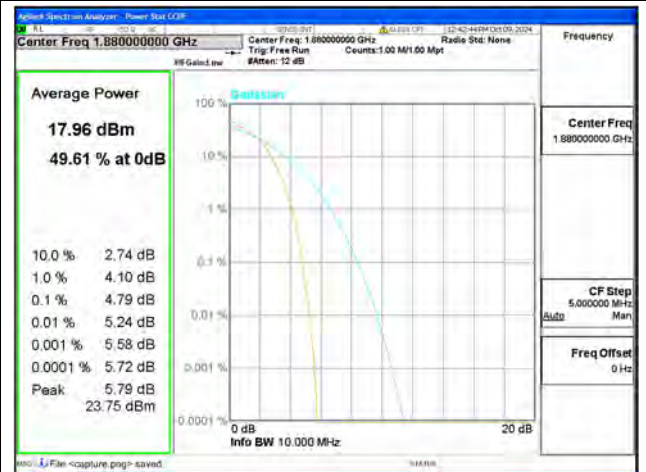
B2 / 10MHz / Low CH / QPSK



B2 / 10MHz / Low CH / 16QAM



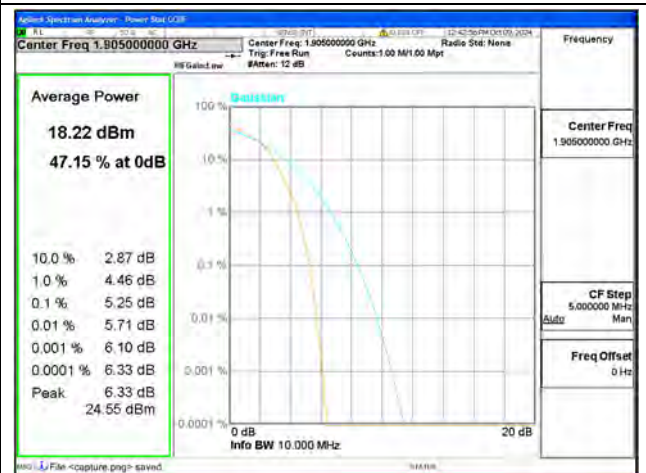
B2 / 10MHz / Mid CH / QPSK



B2 / 10MHz / Mid CH / 16QAM



B2 / 10MHz / High CH / QPSK



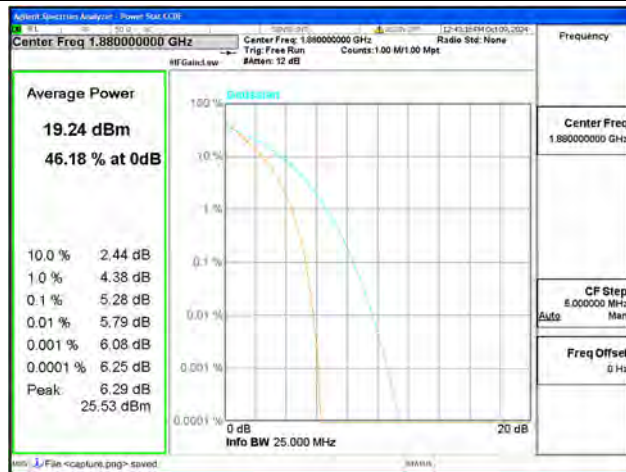
B2 / 10MHz / High CH / 16QAM



B2 / 15MHz / Low CH / QPSK



B2 / 15MHz / Low CH / 16QAM



B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / Mid CH / 16QAM



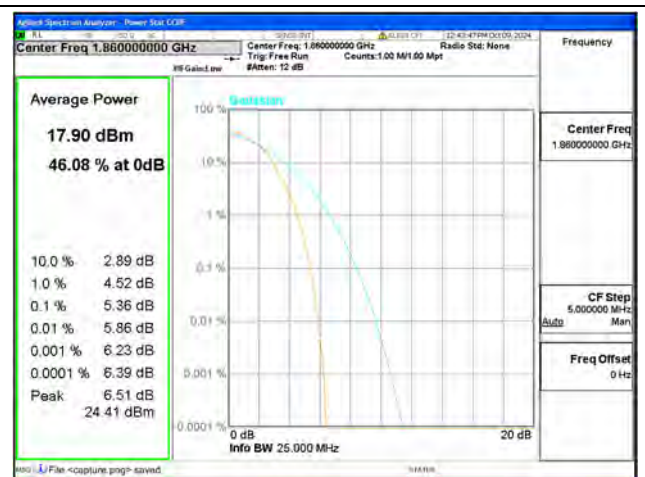
B2 / 15MHz / High CH / QPSK



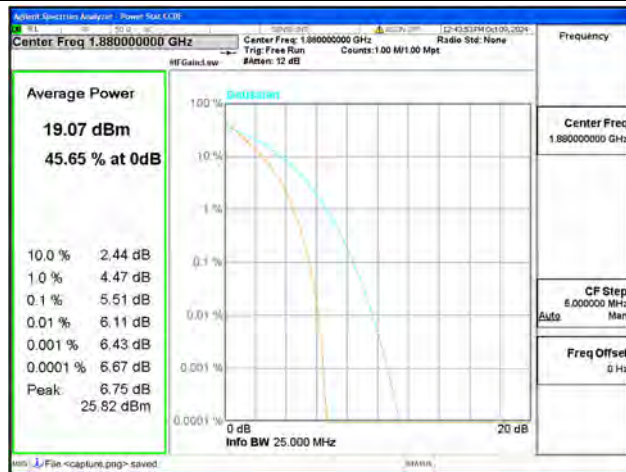
B2 / 15MHz / High CH / 16QAM



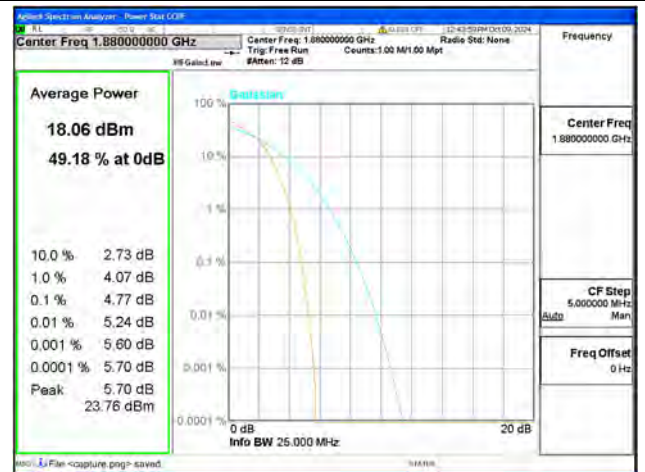
B2 / 20MHz / Low CH / QPSK



B2 / 20MHz / Low CH / 16QAM



B2 / 20MHz / Mid CH / QPSK



B2 / 20MHz / Mid CH / 16QAM



B2 / 20MHz / High CH / QPSK



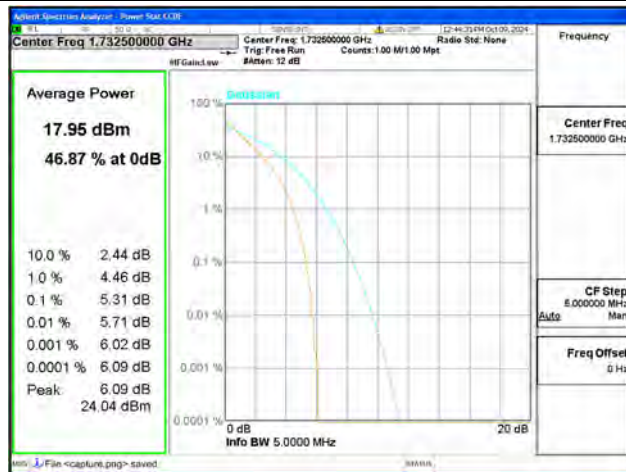
B2 / 20MHz / High CH / 16QAM



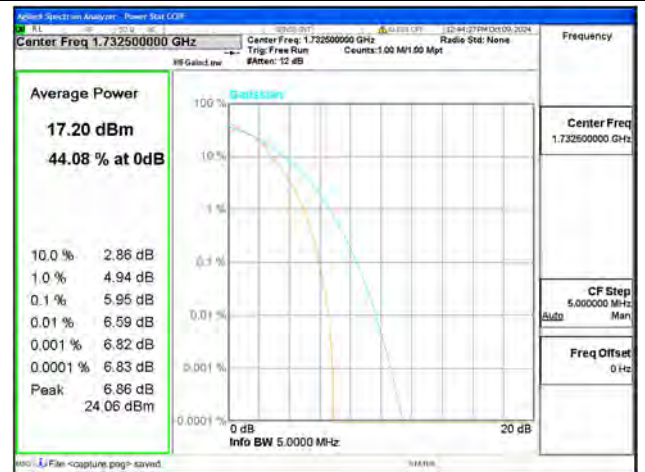
B4 / 1.4MHz / Low CH / QPSK



B4 / 1.4MHz / Low CH / 16QAM



B4 / 1.4MHz / Mid CH / QPSK



B4 / 1.4MHz / Mid CH / 16QAM



B4 / 1.4MHz / High CH / QPSK



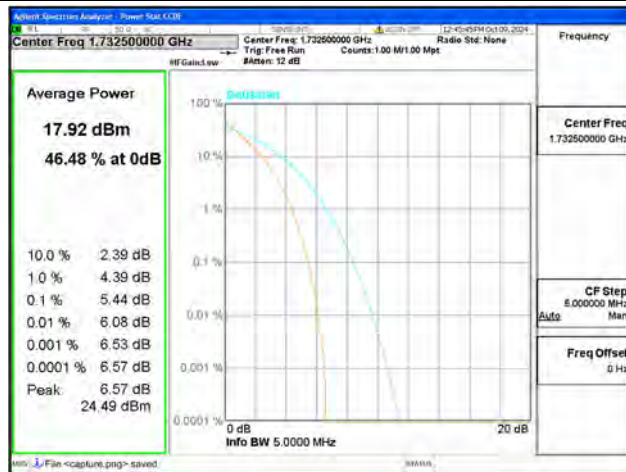
B4 / 1.4MHz / High CH / 16QAM



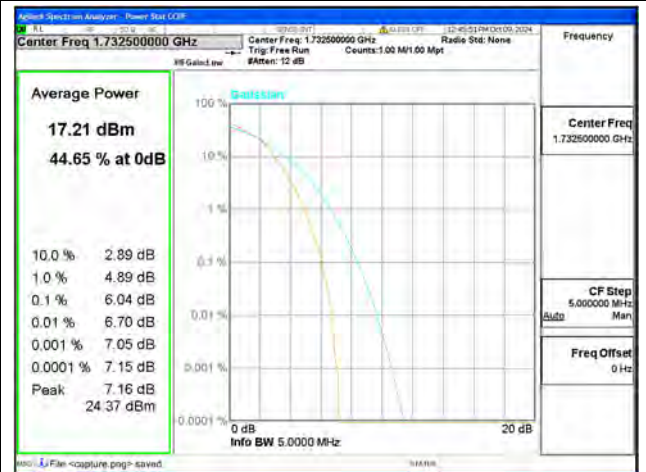
B4 / 5MHz / Low CH / QPSK



B4 / 5MHz / Low CH / 16QAM



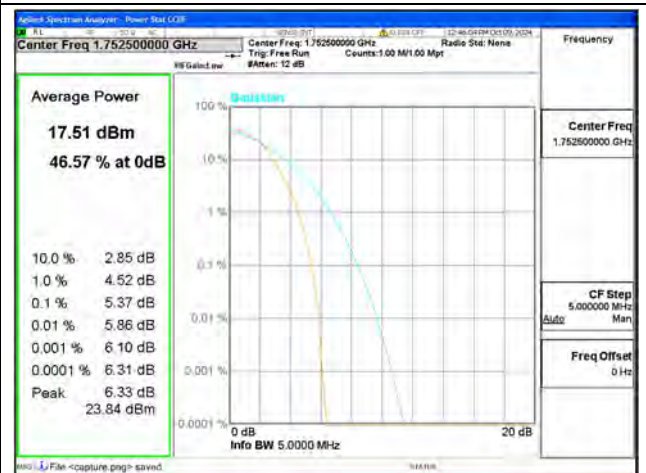
B4 / 5MHz / Mid CH / QPSK



B4 / 5MHz / Mid CH / 16QAM



B4 / 5MHz / High CH / QPSK



B4 / 5MHz / High CH / 16QAM



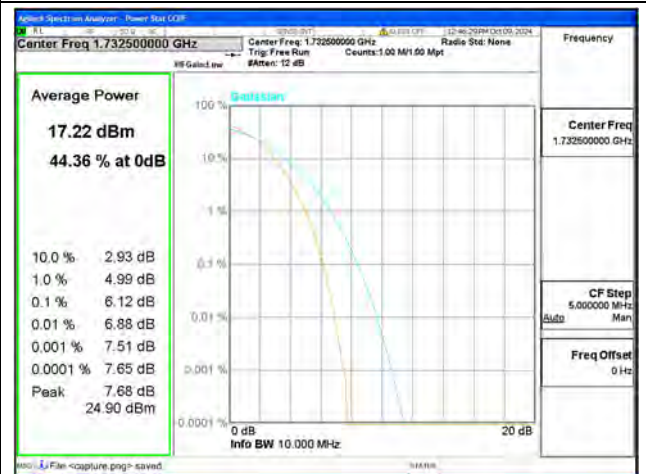
B4 / 10MHz / Low CH / QPSK



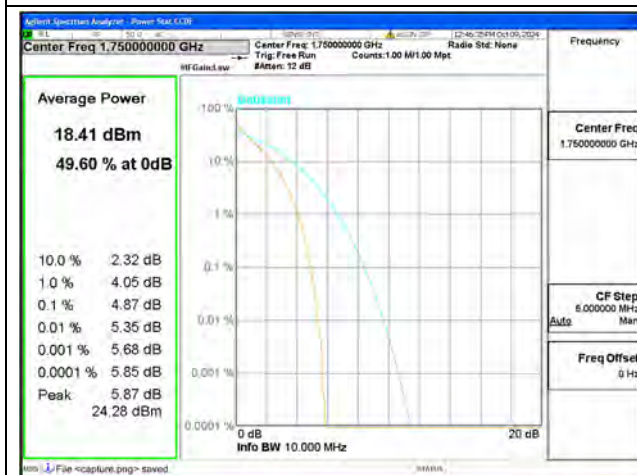
B4 / 10MHz / Low CH / 16QAM



B4 / 10MHz / Mid CH / QPSK



B4 / 10MHz / Mid CH / 16QAM



B4 / 10MHz / High CH / QPSK



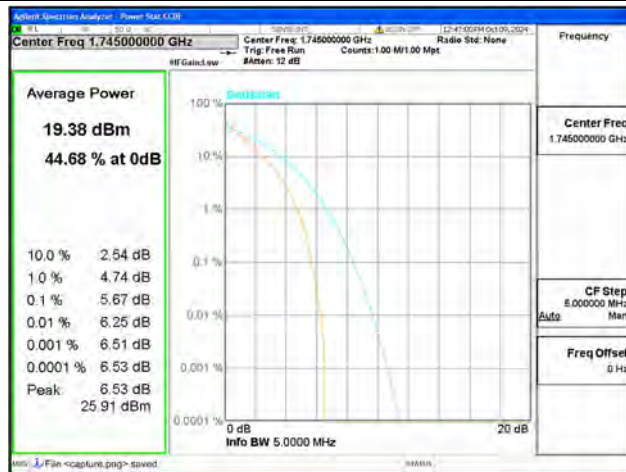
B4 / 10MHz / High CH / 16QAM



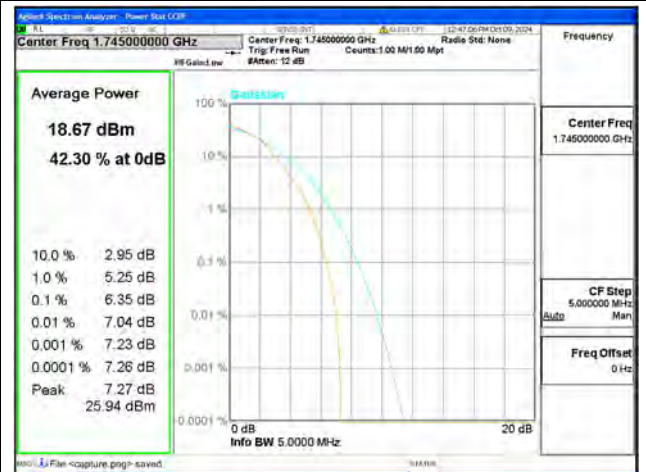
B66 / 1.4MHz / Low CH / QPSK



B66 / 1.4MHz / Low CH / 16QAM



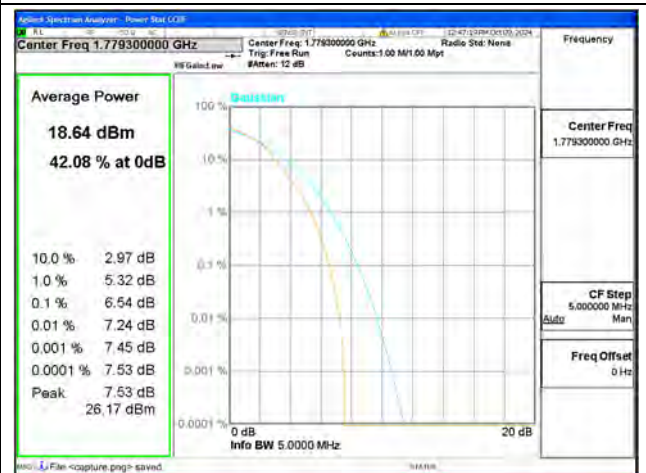
B66 / 1.4MHz / Mid CH / QPSK



B66 / 1.4MHz / Mid CH / 16QAM



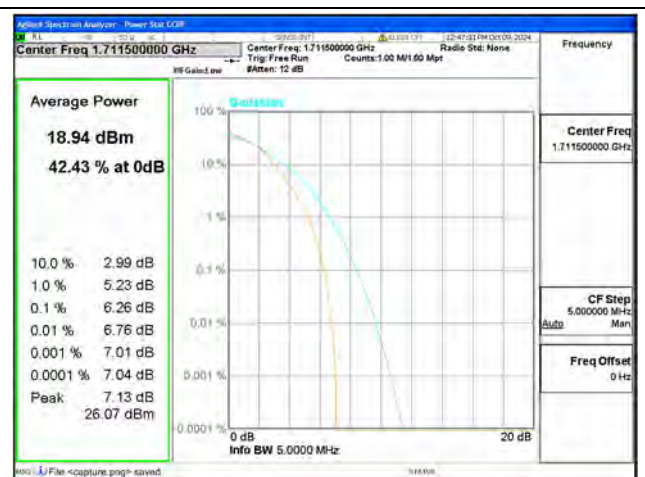
B66 / 1.4MHz / High CH / QPSK



B66 / 1.4MHz / High CH / 16QAM



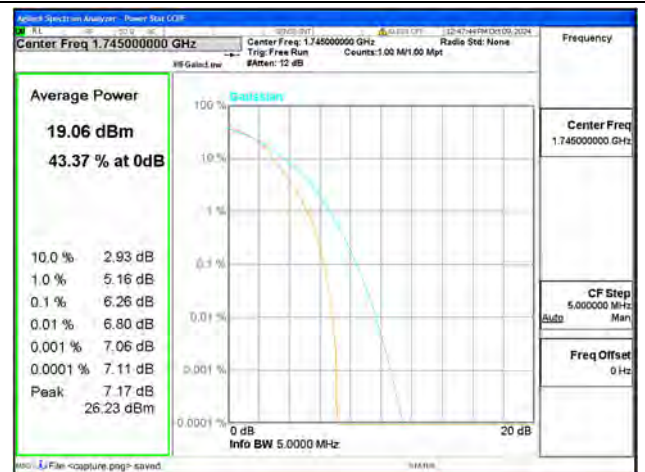
B66 / 3MHz / Low CH / QPSK



B66 / 3MHz / Low CH / 16QAM



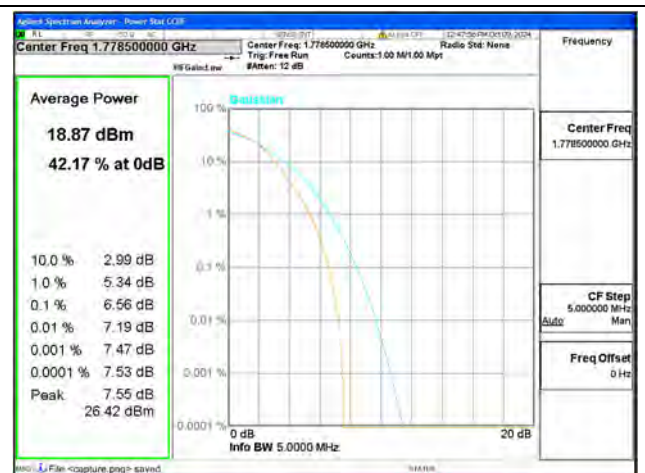
B66 / 3MHz / Mid CH / QPSK



B66 / 3MHz / Mid CH / 16QAM



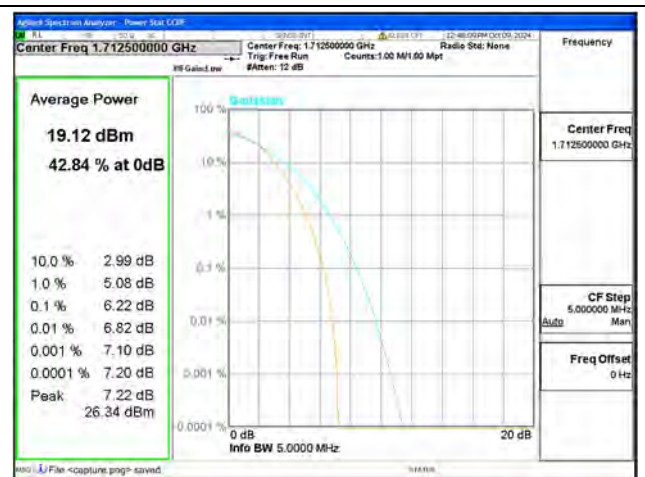
B66 / 3MHz / High CH / QPSK



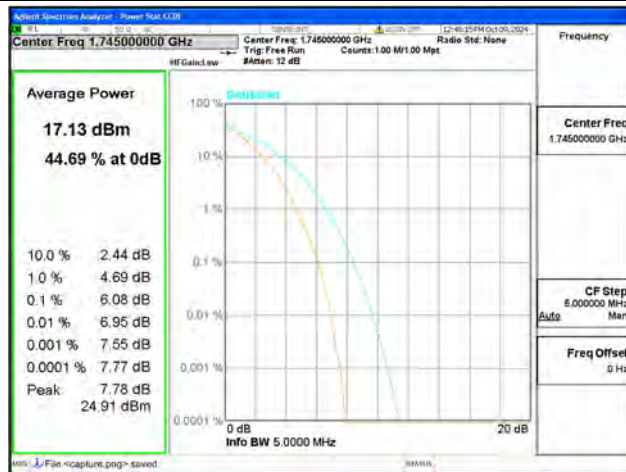
B66 / 3MHz / High CH / 16QAM



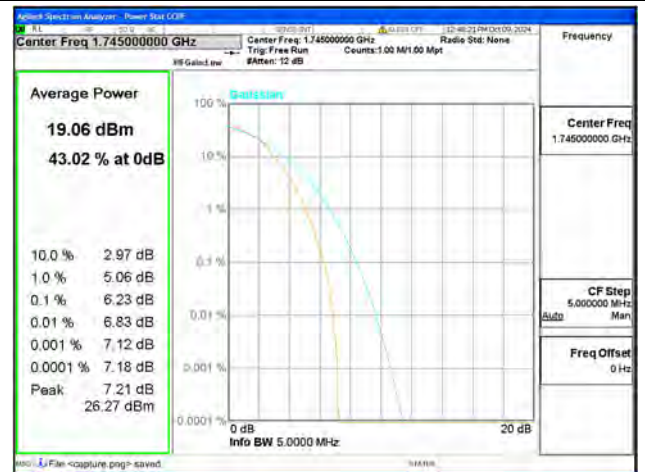
B66 / 5MHz / Low CH / QPSK



B66 / 5MHz / Low CH / 16QAM



B66 / 5MHz / Mid CH / QPSK



B66 / 5MHz / Mid CH / 16QAM



B66 / 5MHz / High CH / QPSK



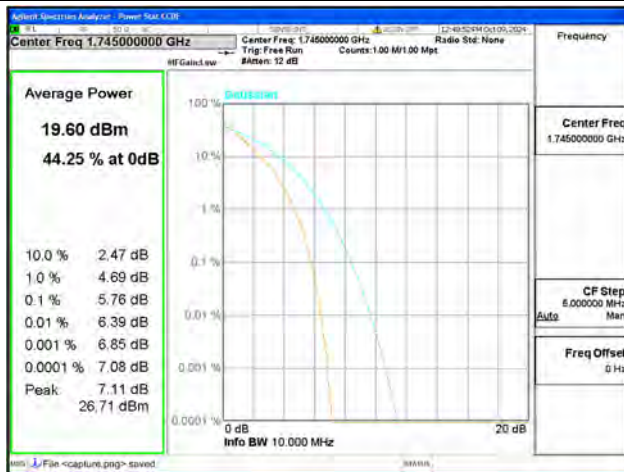
B66 / 5MHz / High CH / 16QAM



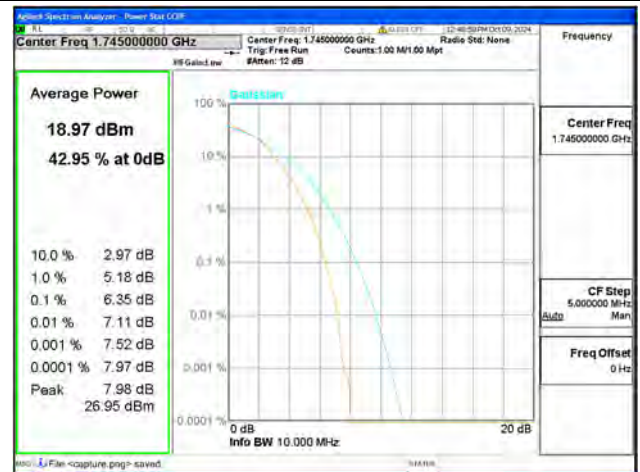
B66 / 10MHz / Low CH / QPSK



B66 / 10MHz / Low CH / 16QAM



B66 / 10MHz / Mid CH / QPSK



B66 / 10MHz / Mid CH / 16QAM



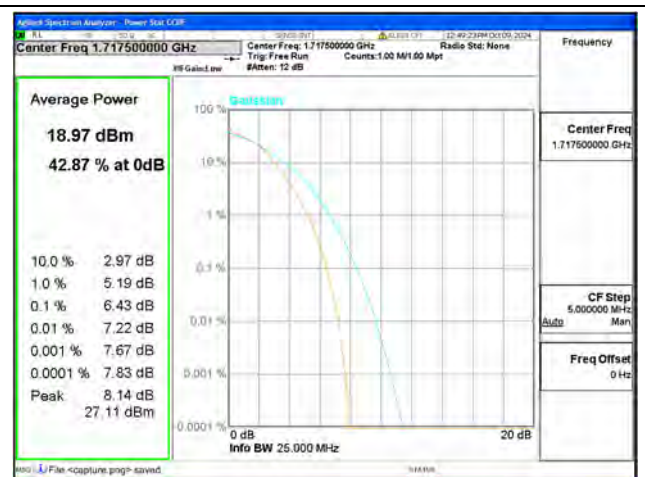
B66 / 10MHz / High CH / QPSK



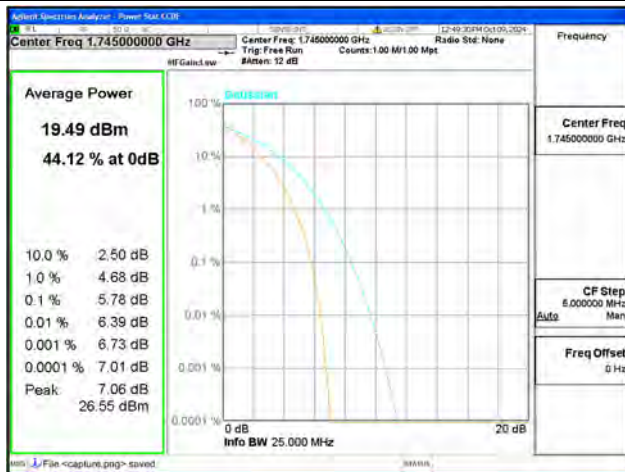
B66 / 10MHz / High CH / 16QAM



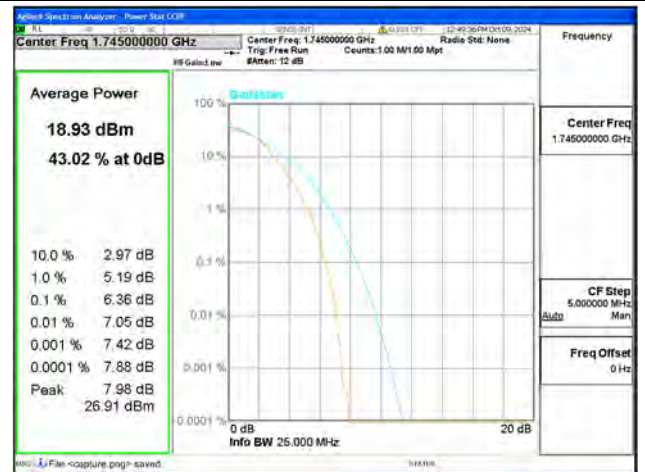
B66 / 15MHz / Low CH / QPSK



B66 / 15MHz / Low CH / 16QAM



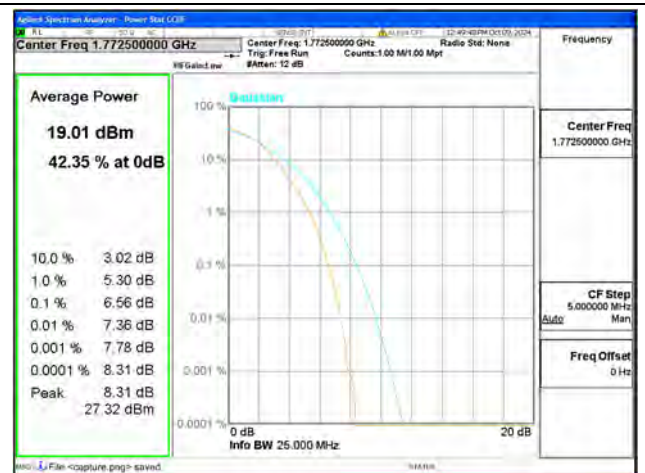
B66 / 15MHz / Mid CH / QPSK



B66 / 15MHz / Mid CH / 16QAM



B66 / 15MHz / High CH / QPSK



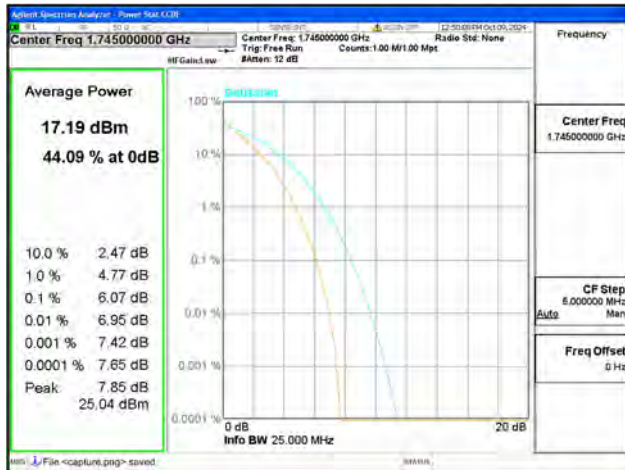
B66 / 15MHz / High CH / 16QAM



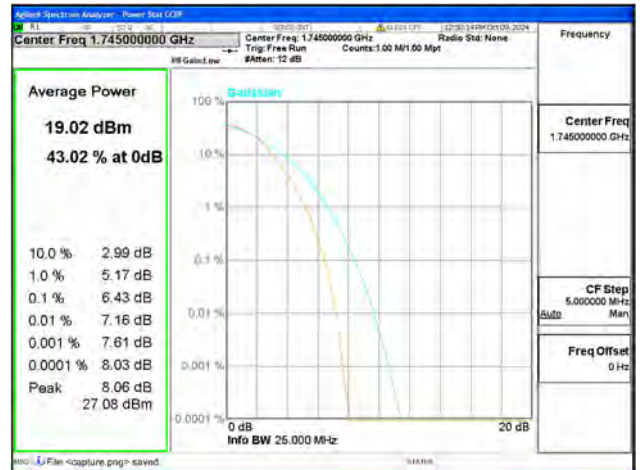
B66 / 20MHz / Low CH / QPSK



B66 / 20MHz / Low CH / 16QAM



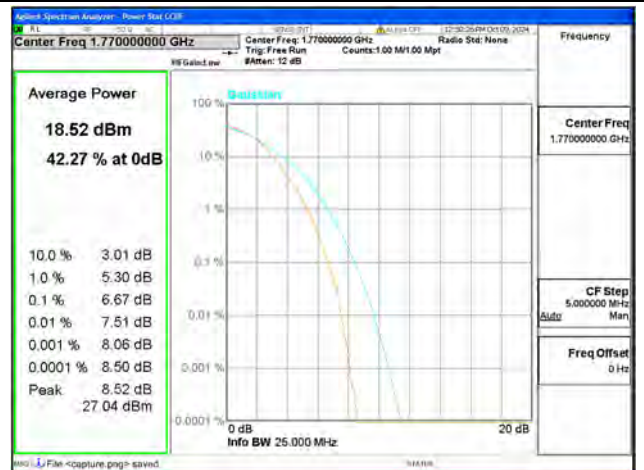
B66 / 20MHz / Mid CH / QPSK



B66 / 20MHz / Mid CH / 16QAM



B66 / 20MHz / High CH / QPSK



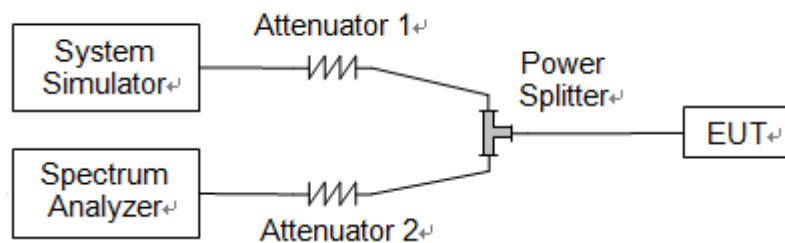
B66 / 20MHz / High CH / 16QAM

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.

2.5.2. Test Description



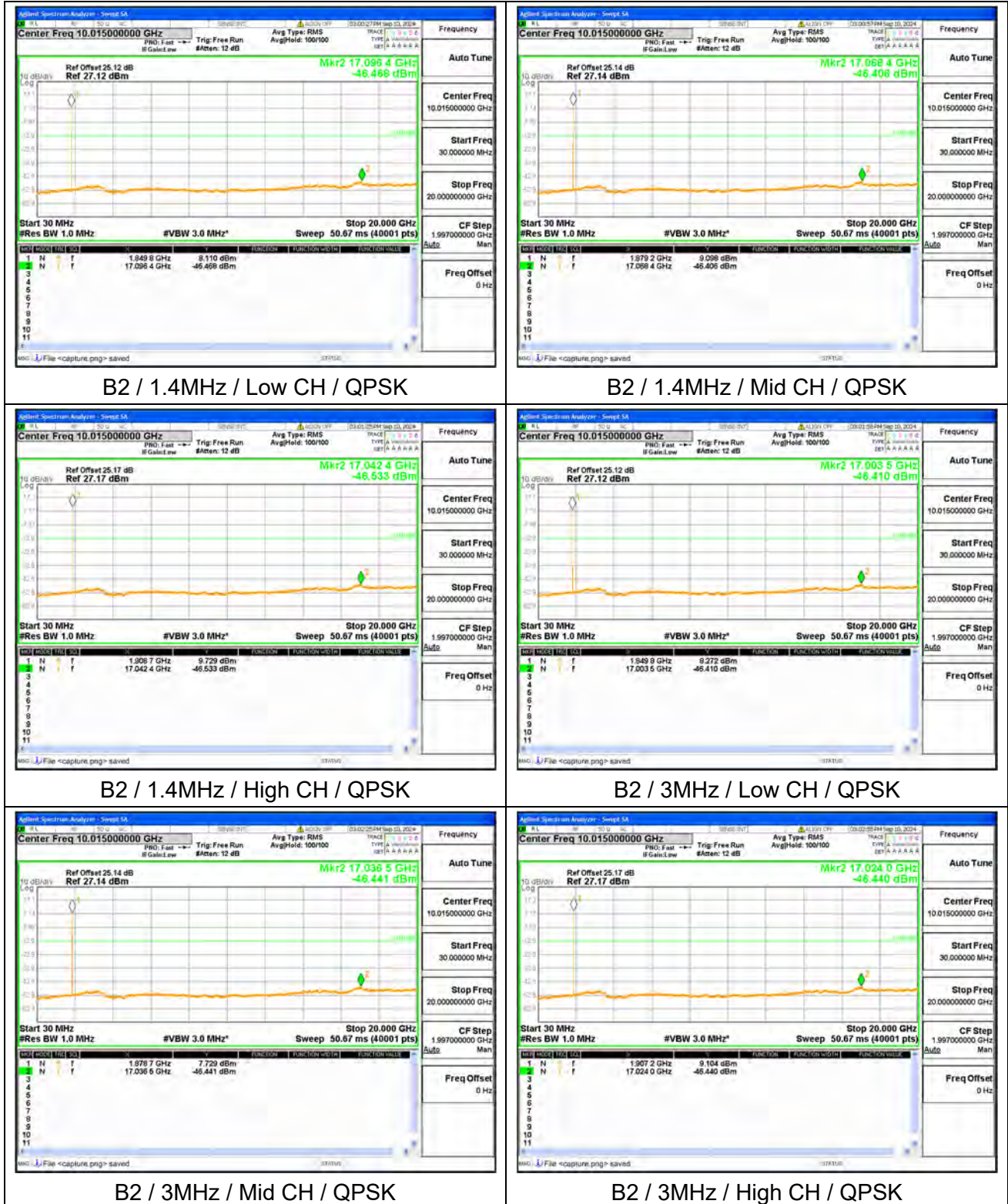
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.5.3. Test Procedure

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



2.5.4. Test Result



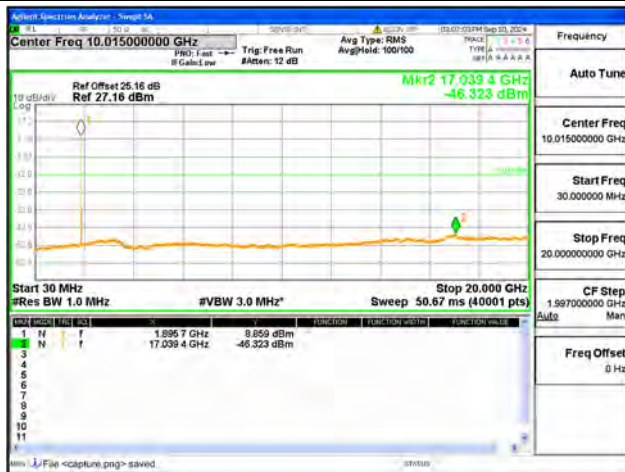




B2 / 15MHz / Low CH / QPSK



B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / High CH / QPSK



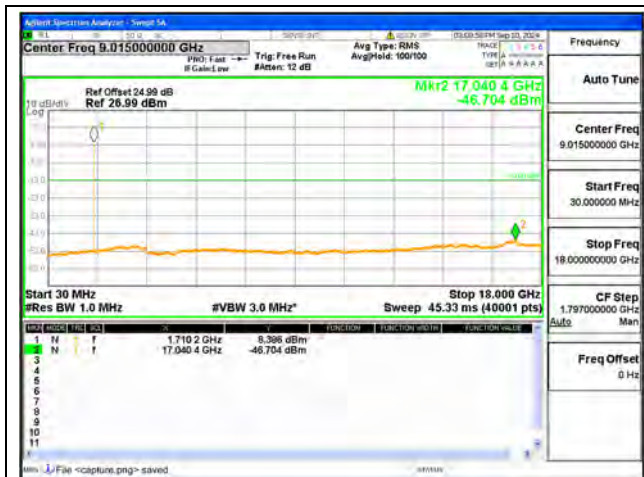
B2 / 20MHz / Low CH / QPSK



B2 / 20MHz / Mid CH / QPSK



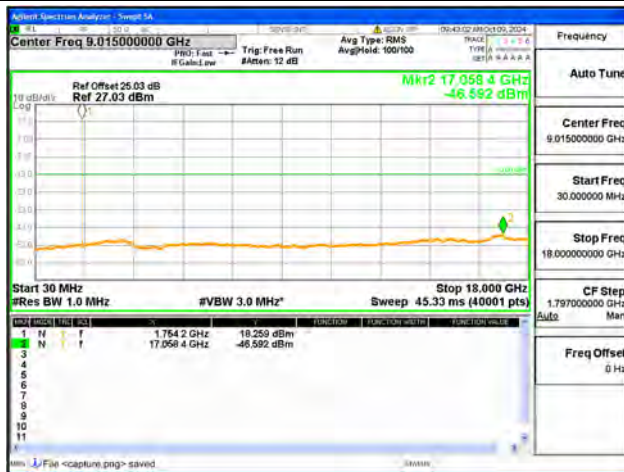
B2 / 20MHz / High CH / QPSK



B4 / 1.4MHz / Low CH / QPSK



B4 / 1.4MHz / Mid CH / QPSK



B4 / 1.4MHz / High CH / QPSK



B4 / 3MHz / Low CH / QPSK



B4 / 3MHz / Mid CH / QPSK



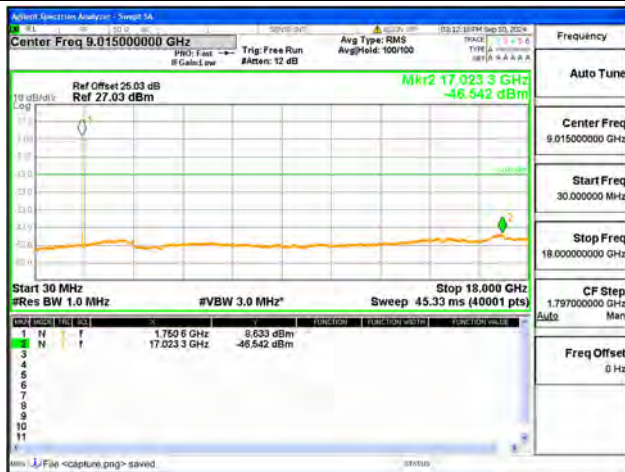
B4 / 3MHz / High CH / QPSK



B4 / 5MHz / Low CH / QPSK



B4 / 5MHz / Mid CH / QPSK



B4 / 5MHz / High CH / QPSK



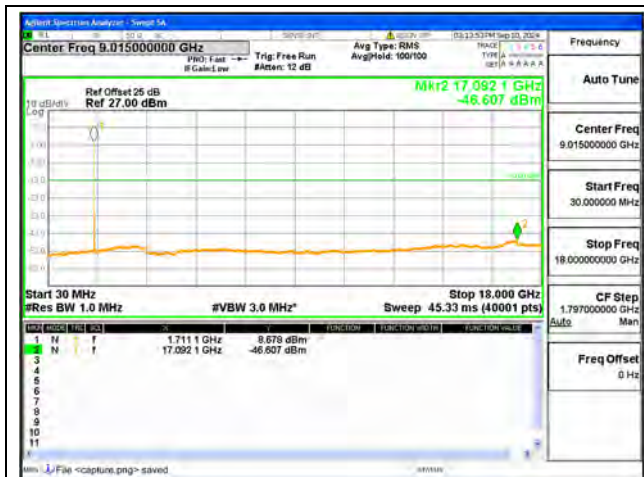
B4 / 10MHz / Low CH / QPSK



B4 / 10MHz / Mid CH / QPSK



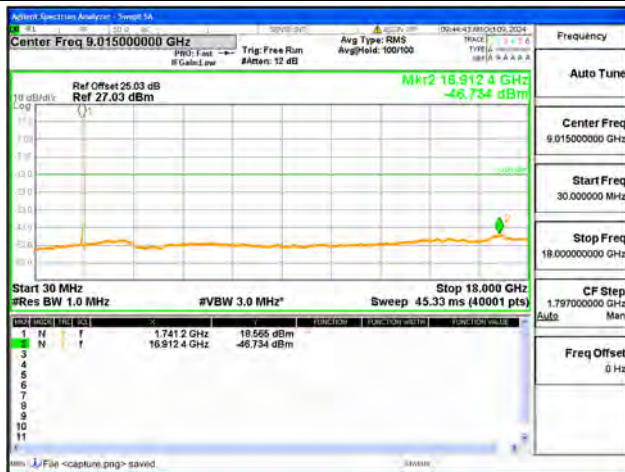
B4 / 10MHz / High CH / QPSK



B4 / 15MHz / Low CH / QPSK



B4 / 15MHz / Mid CH / QPSK



B4 / 15MHz / High CH / QPSK



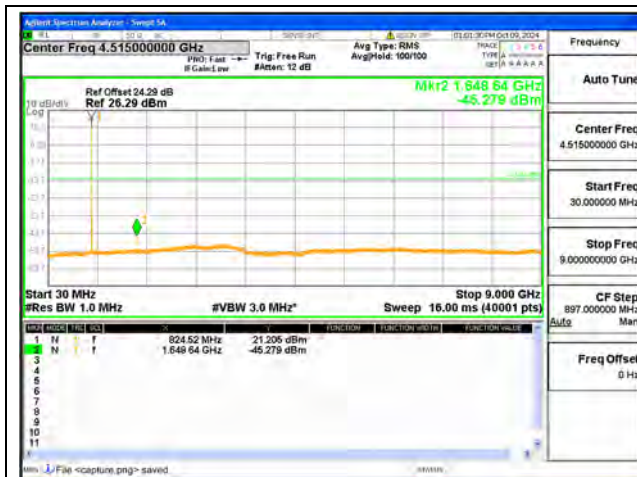
B4 / 20MHz / Low CH / QPSK



B4 / 20MHz / Mid CH / QPSK



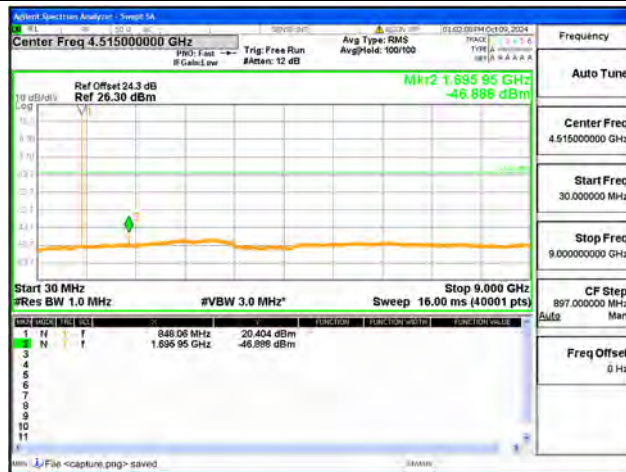
B4 / 20MHz / High CH / QPSK



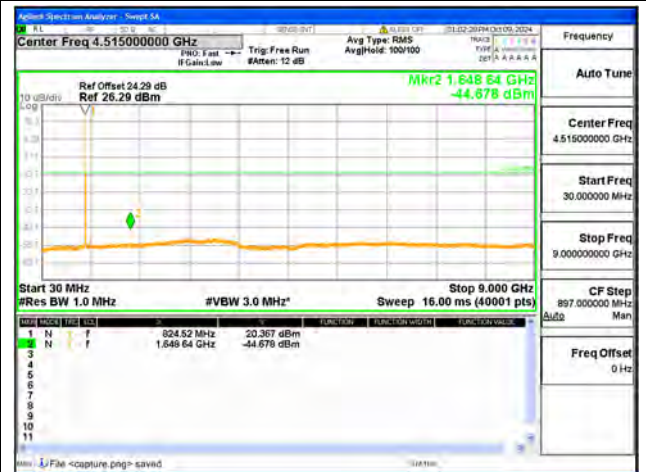
B5 / 1.4MHz / Low CH / QPSK



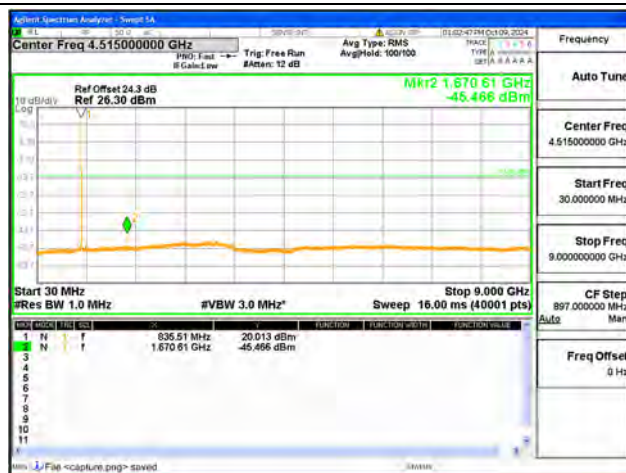
B5 / 1.4MHz / Mid CH / QPSK



B5 / 1.4MHz / High CH / QPSK



B5 / 3MHz / Low CH / QPSK



B5 / 3MHz / Mid CH / QPSK



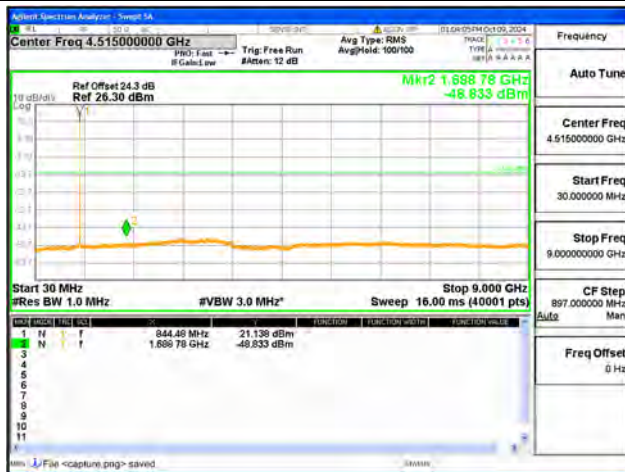
B5 / 3MHz / High CH / QPSK



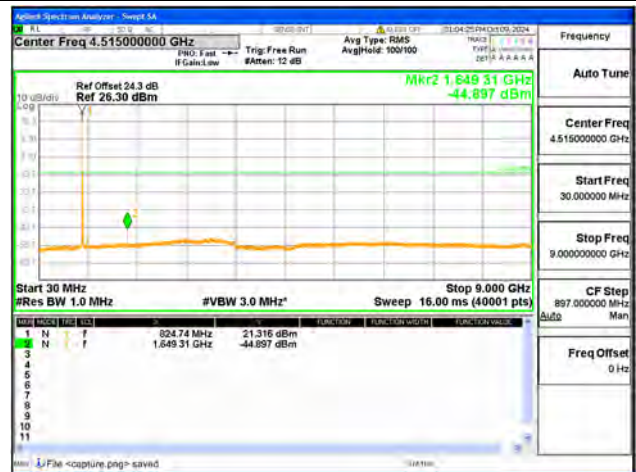
B5 / 5MHz / Low CH / QPSK



B5 / 5MHz / Mid CH / QPSK



B5 / 5MHz / High CH / QPSK



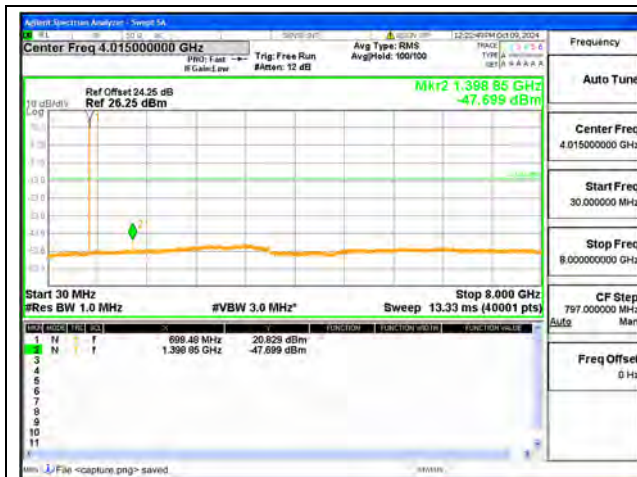
B5 / 10MHz / Low CH / QPSK



B5 / 10MHz / Mid CH / QPSK



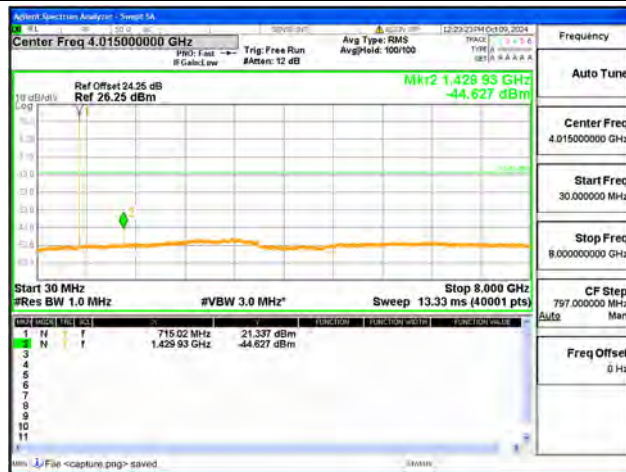
B5 / 10MHz / High CH / QPSK



B12 / 1.4MHz / Low CH / QPSK



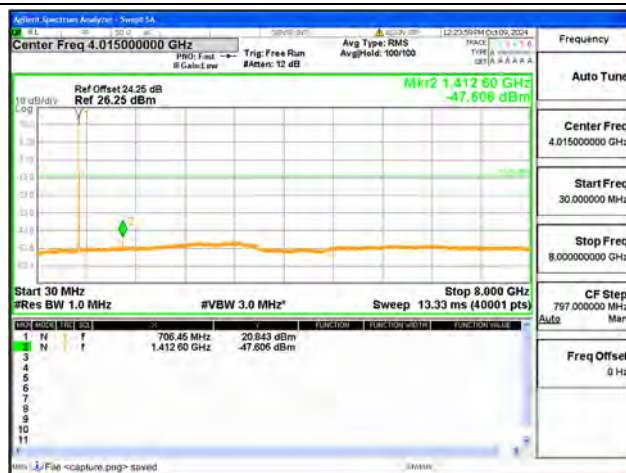
B12 / 1.4MHz / Mid CH / QPSK



B12 / 1.4MHz / High CH / QPSK



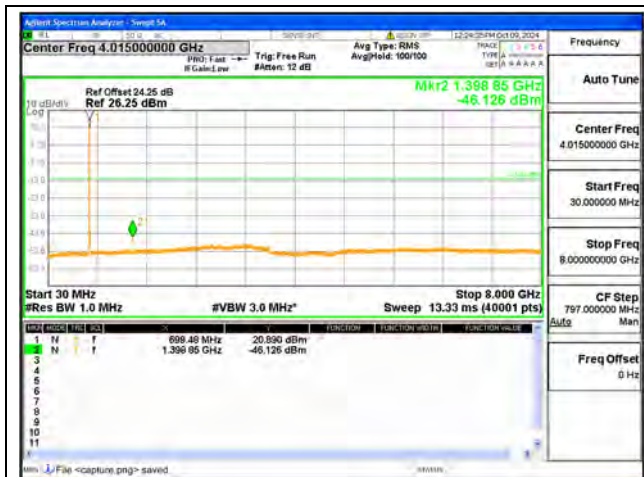
B12 / 3MHz / Low CH / QPSK



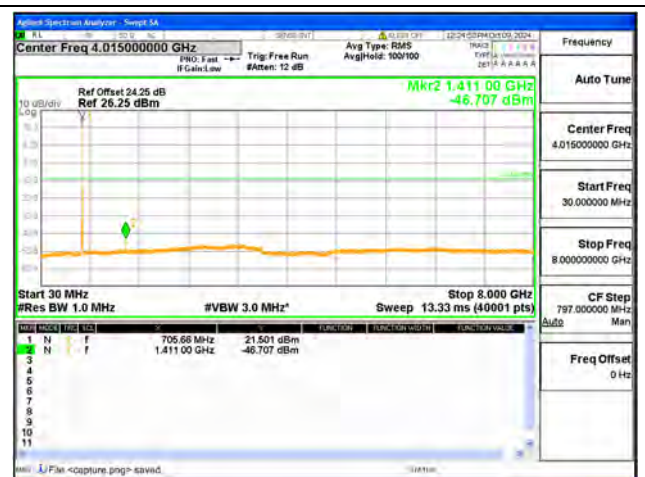
B12 / 3MHz / Mid CH / QPSK



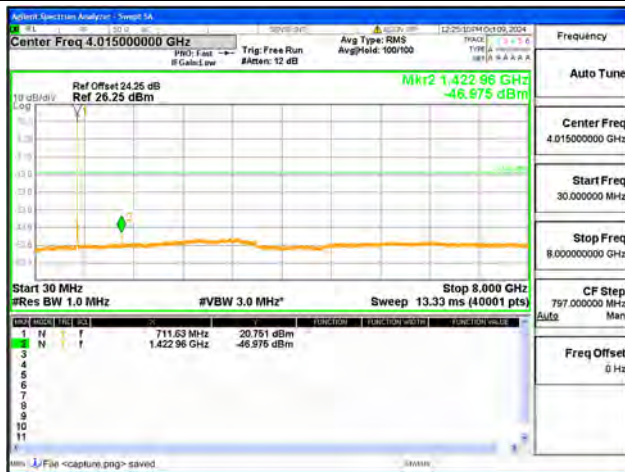
B12 / 3MHz / High CH / QPSK



B12 / 5MHz / Low CH / QPSK



B12 / 5MHz / Mid CH / QPSK



B12 / 5MHz / High CH / QPSK



B12 / 10MHz / Low CH / QPSK

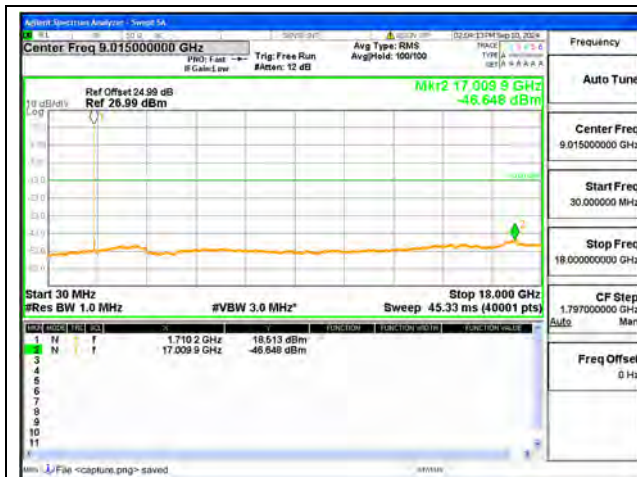


B12 / 10MHz / Mid CH / QPSK



B12 / 10MHz / High CH / QPSK

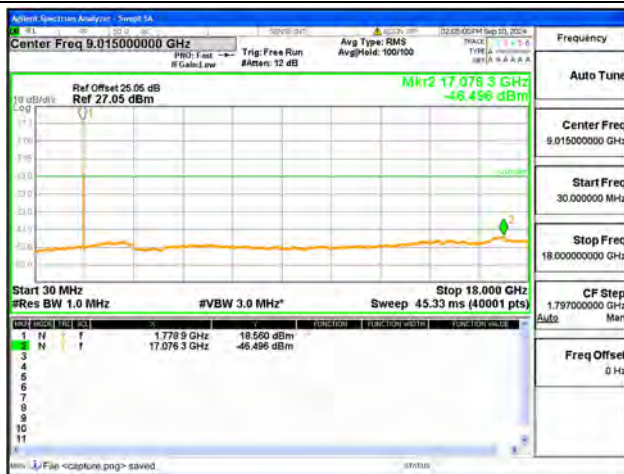




B66 / 1.4MHz / Low CH / QPSK



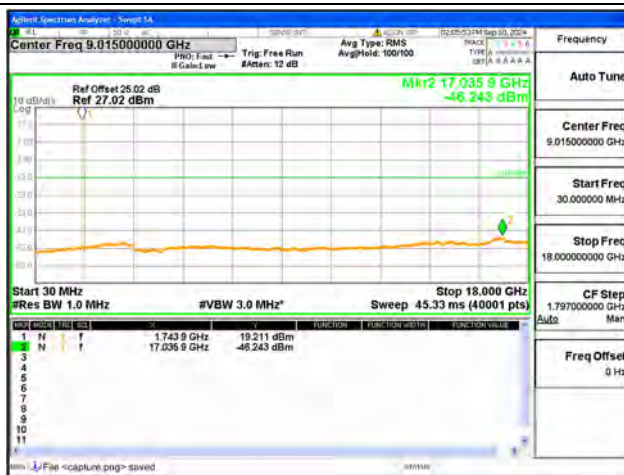
B66 / 1.4MHz / Mid CH / QPSK



B66 / 1.4MHz / High CH / QPSK



B66 / 3MHz / Low CH / QPSK



B66 / 3MHz / Mid CH / QPSK



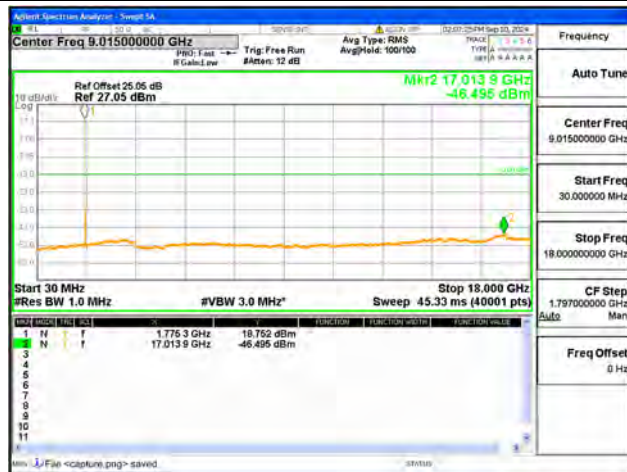
B66 / 3MHz / High CH / QPSK



B66 / 5MHz / Low CH / QPSK



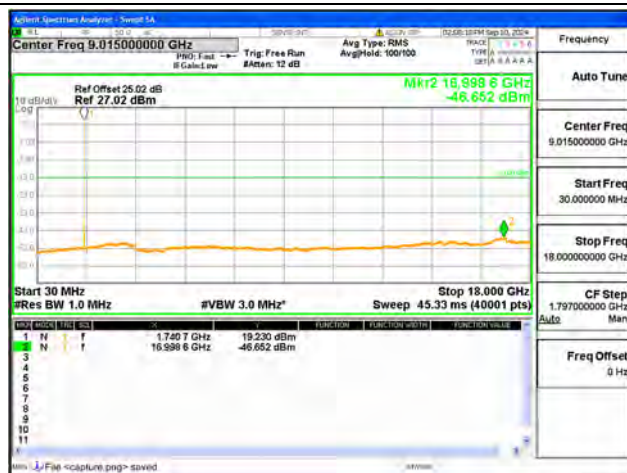
B66 / 5MHz / Mid CH / QPSK



B66 / 5MHz / High CH / QPSK



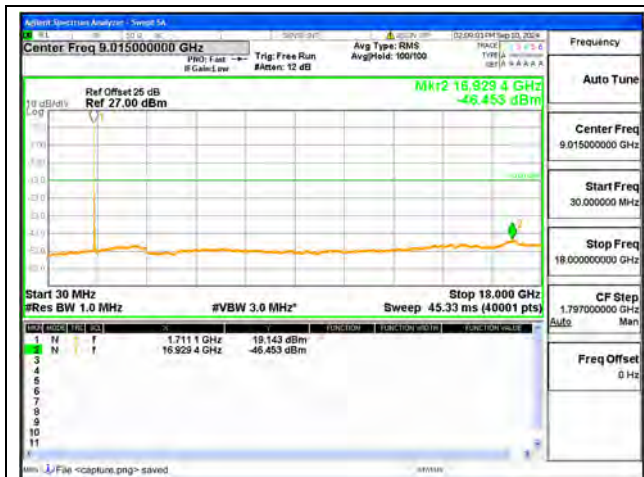
B66 / 10MHz / Low CH / QPSK



B66 / 10MHz / Mid CH / QPSK



B66 / 10MHz / High CH / QPSK



B66 / 15MHz / Low CH / QPSK



B66 / 15MHz / Mid CH / QPSK



B66 / 15MHz / High CH / QPSK



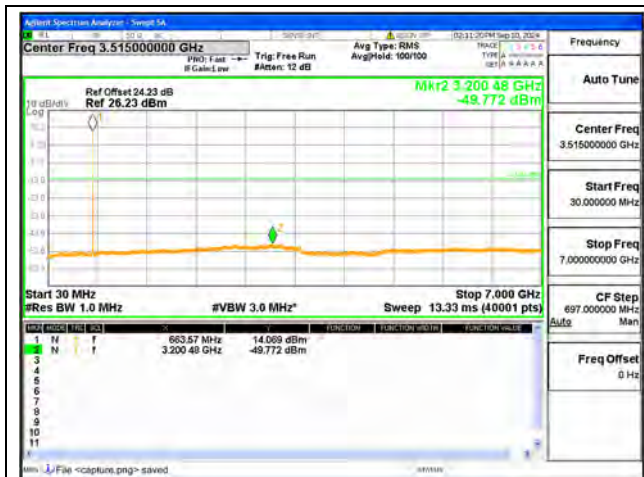
B66 / 20MHz / Low CH / QPSK



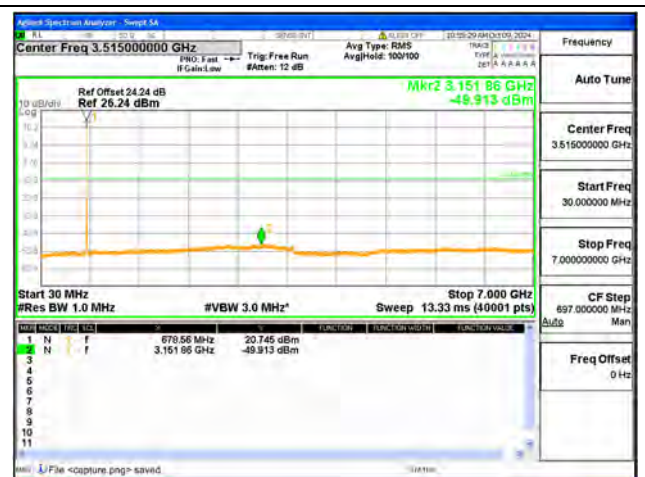
B66 / 20MHz / Mid CH / QPSK



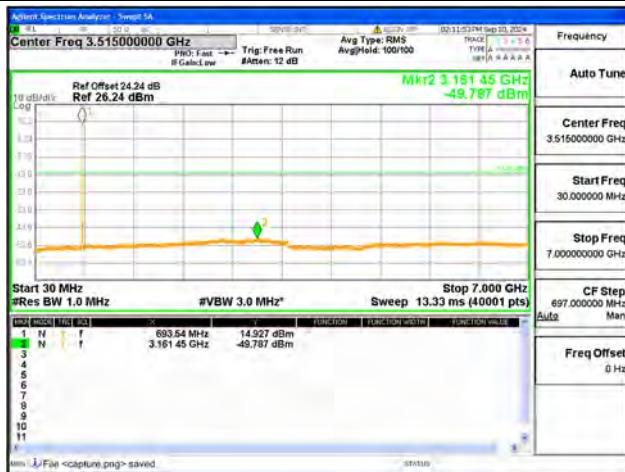
B66 / 20MHz / High CH / QPSK



B71 / 5MHz / Low CH / QPSK



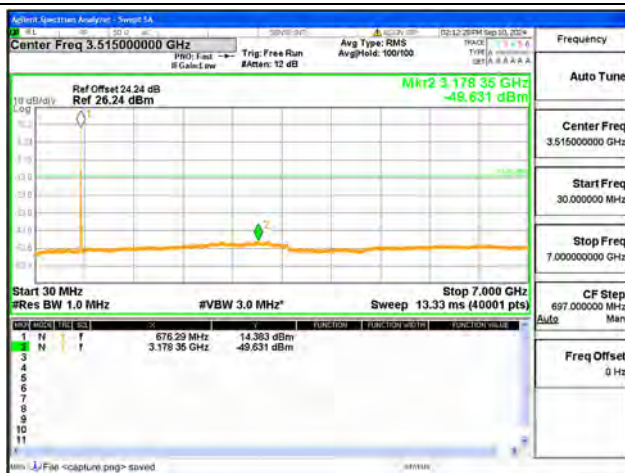
B71 / 5MHz / Mid CH / QPSK



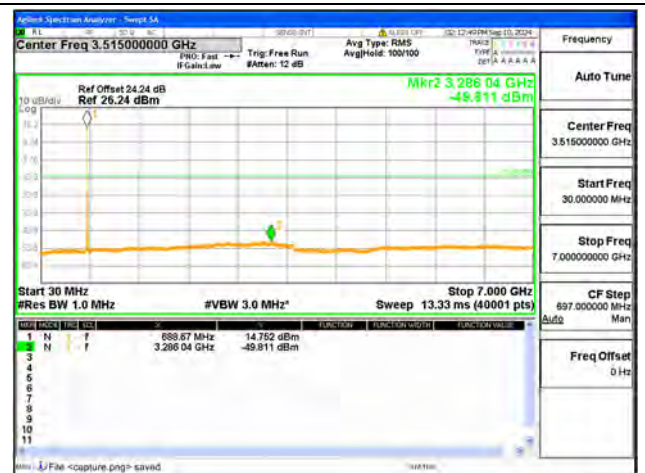
B71 / 5MHz / High CH / QPSK



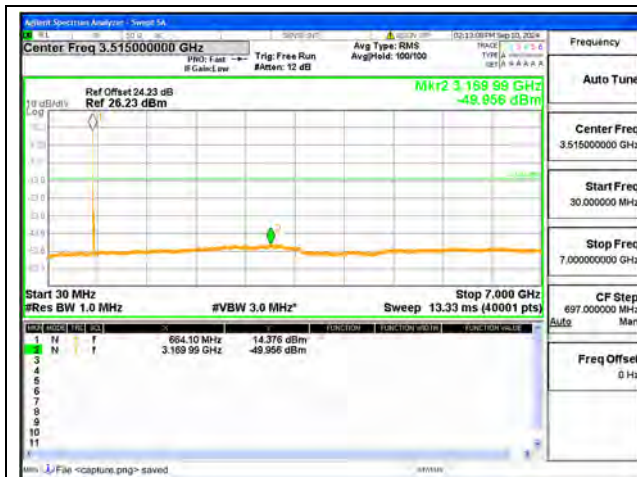
B71 / 10MHz / Low CH / QPSK



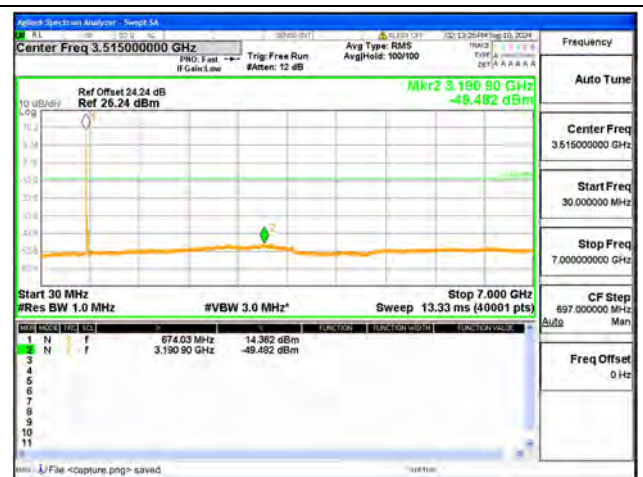
B71 / 10MHz / Mid CH / QPSK



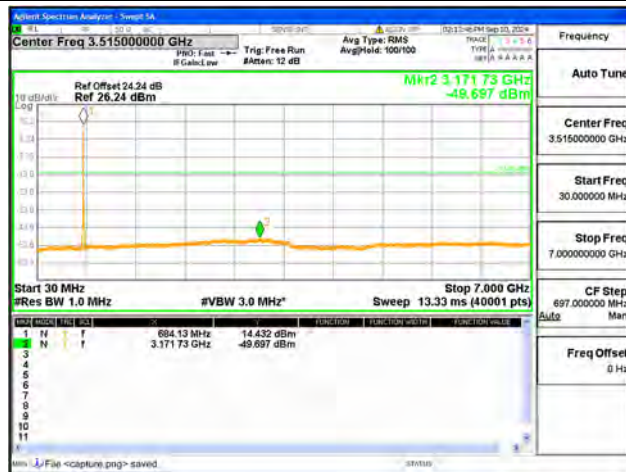
B71 / 10MHz / High CH / QPSK



B71 / 15MHz / Low CH / QPSK



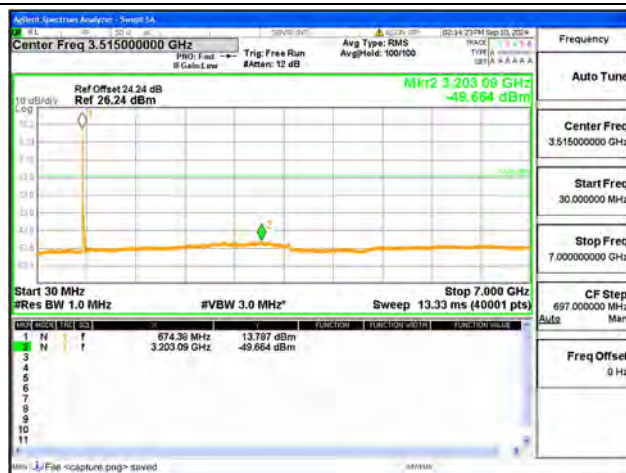
B71 / 15MHz / Mid CH / QPSK



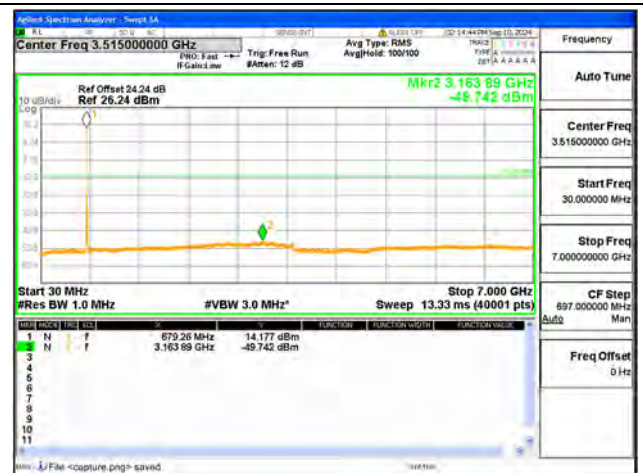
B71 / 15MHz / High CH / QPSK



B71 / 20MHz / Low CH / QPSK



B71 / 20MHz / Mid CH / QPSK



B71 / 20MHz / High CH / QPSK



2.6. Band Edge

2.6.1. Requirement

Band 2

According to FCC section 24.238(a), for operations in the 1850–1910MHz bands, 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 in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

Band 4, 66

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 a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

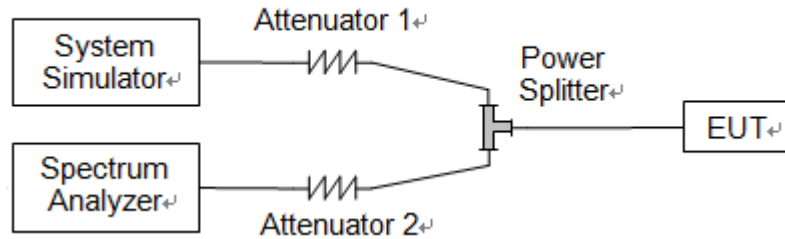
Band 5

According to FCC section 22.917(a), for operations in the 824–849MHz bands, 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 in a 100kHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

Band 12, 17, 71

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

2.6.2. Description



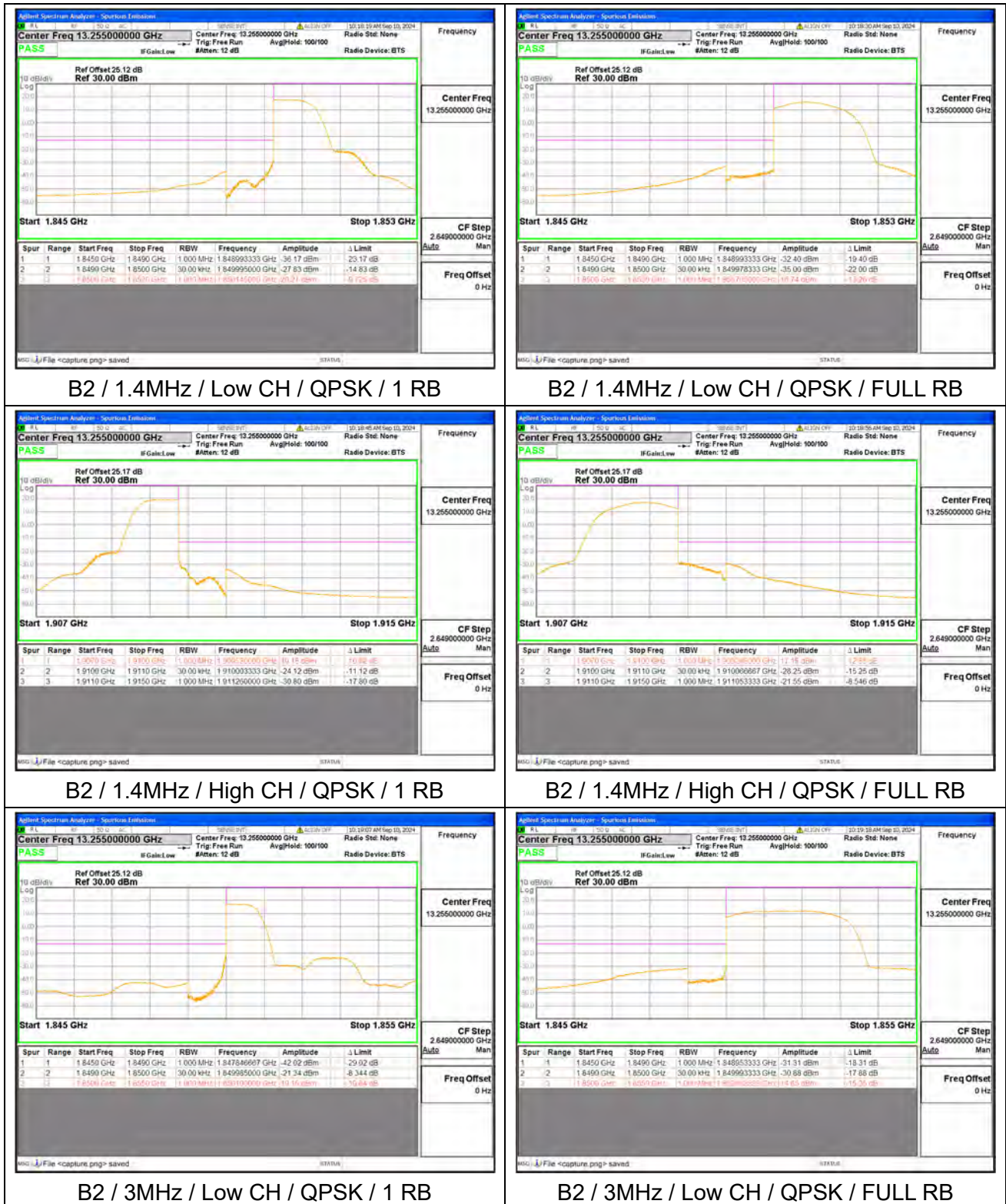
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

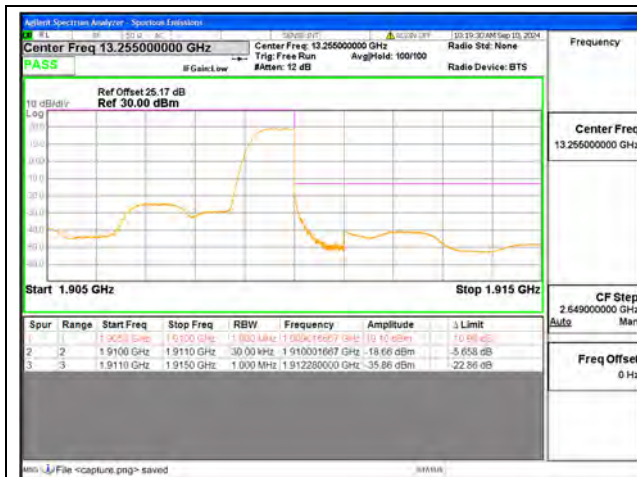
2.6.3. Test Procedure

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



2.6.4. Test Result

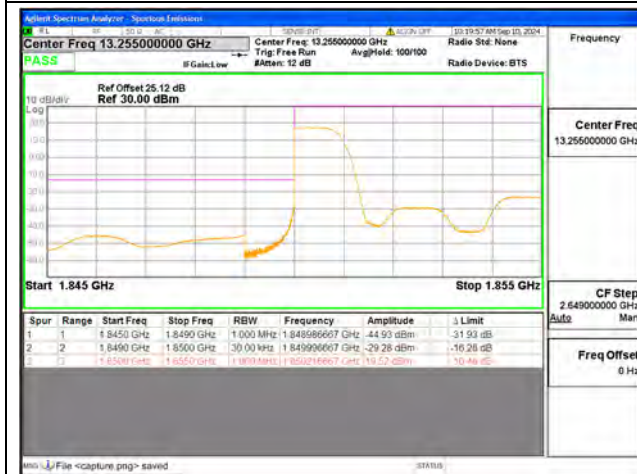




B2 / 3MHz / High CH / QPSK / 1 RB



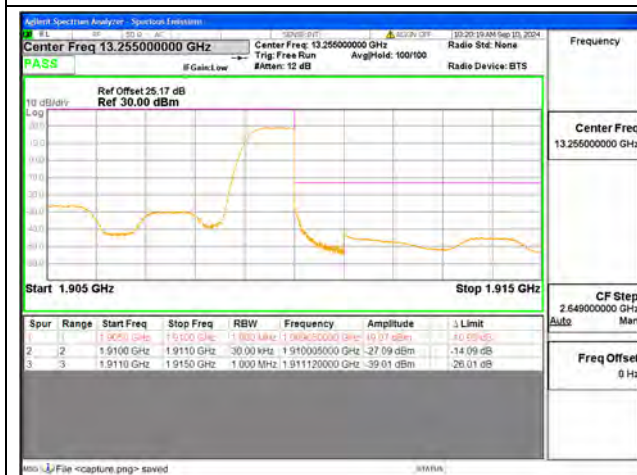
B2 / 3MHz / High CH / QPSK / FULL RB



B2 / 5MHz / Low CH / QPSK / 1 RB



B2 / 5MHz / Low CH / QPSK / FULL RB



B2 / 5MHz / High CH / QPSK / 1 RB



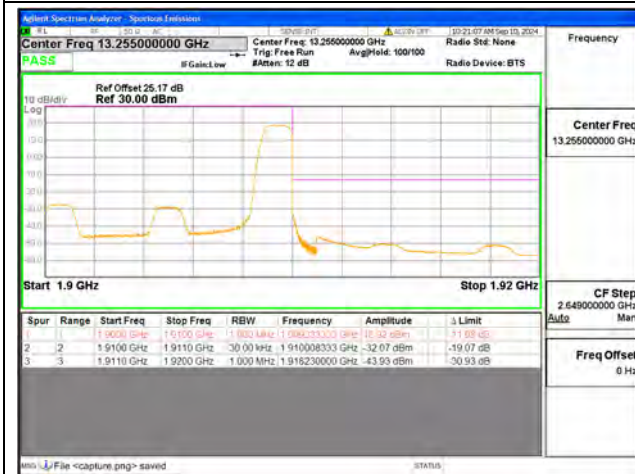
B2 / 5MHz / High CH / QPSK / FULL RB



B2 / 10MHz / Low CH / QPSK / 1 RB



B2 / 10MHz / Low CH / QPSK / FULL RB



B2 / 10MHz / High CH / QPSK / 1 RB



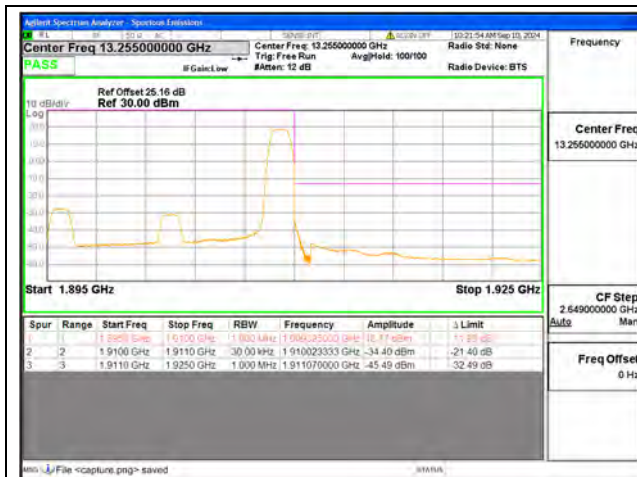
B2 / 10MHz / High CH / QPSK / FULL RB



B2 / 15MHz / Low CH / QPSK / 1 RB



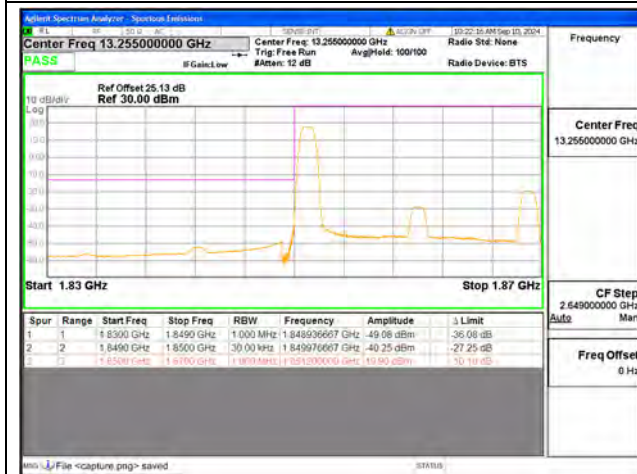
B2 / 15MHz / Low CH / QPSK / FULL RB



B2 / 15MHz / High CH / QPSK / 1 RB



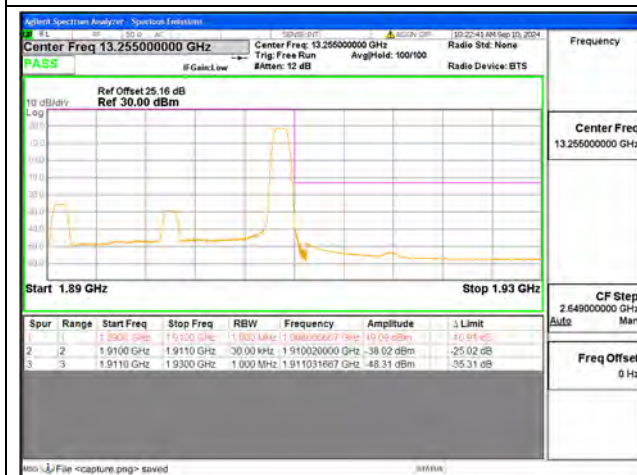
B2 / 15MHz / High CH / QPSK / FULL RB



B2 / 20MHz / Low CH / QPSK / 1 RB



B2 / 20MHz / Low CH / QPSK / FULL RB



B2 / 20MHz / High CH / QPSK / 1 RB



B2 / 20MHz / High CH / QPSK / FULL RB



B4 / 1.4MHz / Low CH / QPSK / 1 RB



B4 / 1.4MHz / Low CH / QPSK / FULL RB



B4 / 1.4MHz / High CH / QPSK / 1 RB



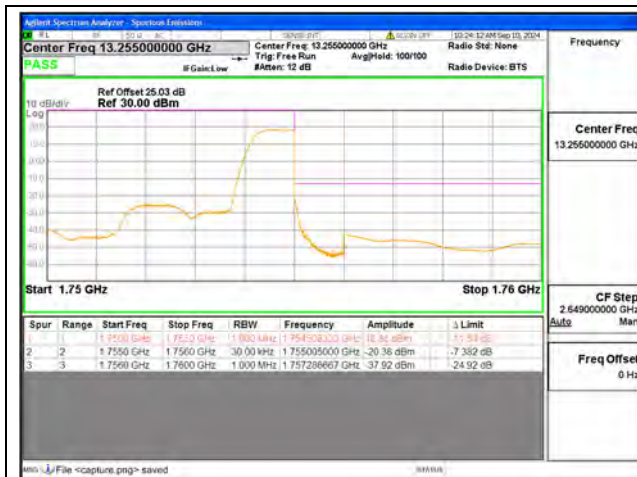
B4 / 1.4MHz / High CH / QPSK / FULL RB



B4 / 3MHz / Low CH / QPSK / 1 RB



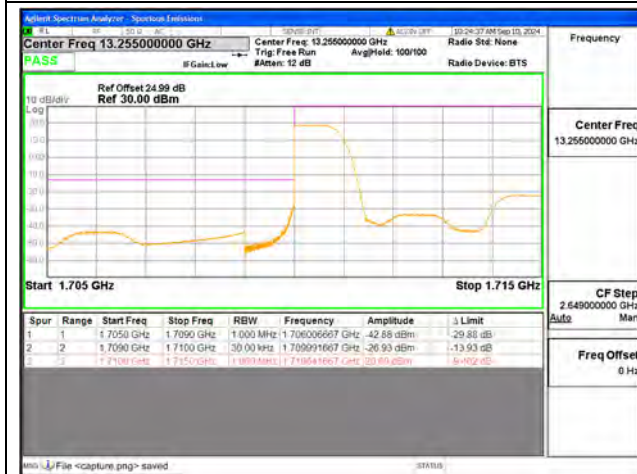
B4 / 3MHz / Low CH / QPSK / FULL RB



B4 / 3MHz / High CH / QPSK / 1 RB



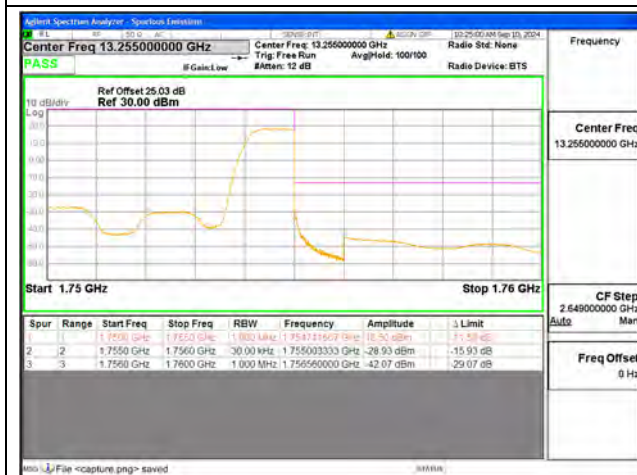
B4 / 3MHz / High CH / QPSK / FULL RB



B4 / 5MHz / Low CH / QPSK / 1 RB



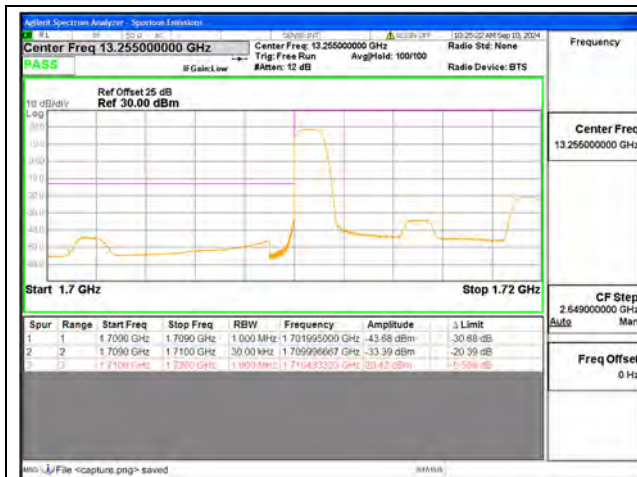
B4 / 5MHz / Low CH / QPSK / FULL RB



B4 / 5MHz / High CH / QPSK / 1 RB



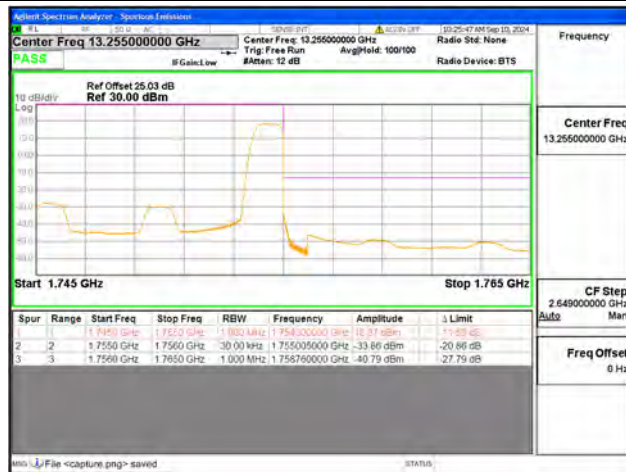
B4 / 5MHz / High CH / QPSK / FULL RB



B4 / 10MHz / Low CH / QPSK / 1 RB



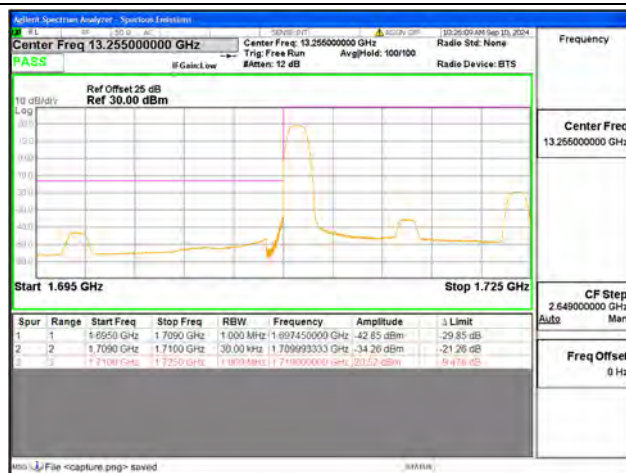
B4 / 10MHz / Low CH / QPSK / FULL RB



B4 / 10MHz / High CH / QPSK / 1 RB



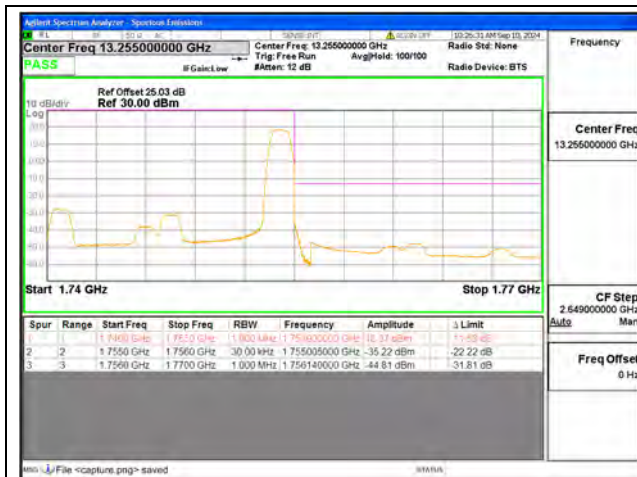
B4 / 10MHz / High CH / QPSK / FULL RB



B4 / 15MHz / Low CH / QPSK / 1 RB



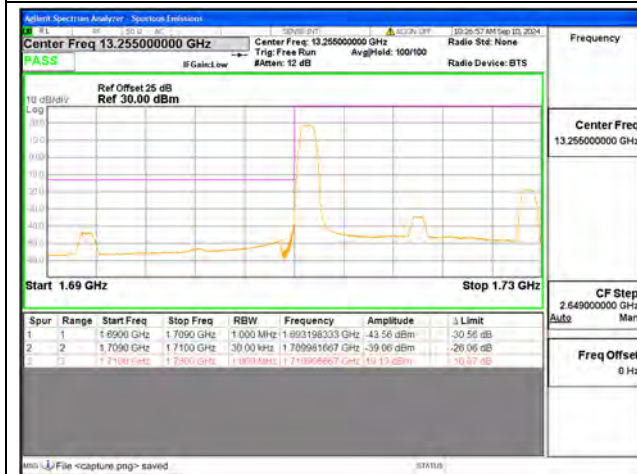
B4 / 15MHz / Low CH / QPSK / FULL RB



B4 / 15MHz / High CH / QPSK / 1 RB



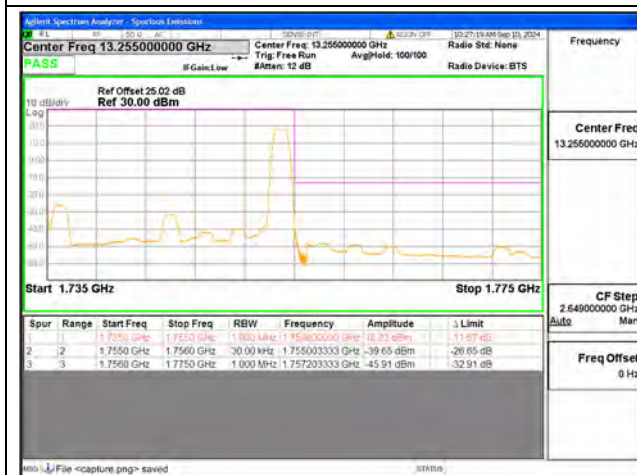
B4 / 15MHz / High CH / QPSK / FULL RB



B4 / 20MHz / Low CH / QPSK / 1 RB



B4 / 20MHz / Low CH / QPSK / FULL RB



B4 / 20MHz / High CH / QPSK / 1 RB



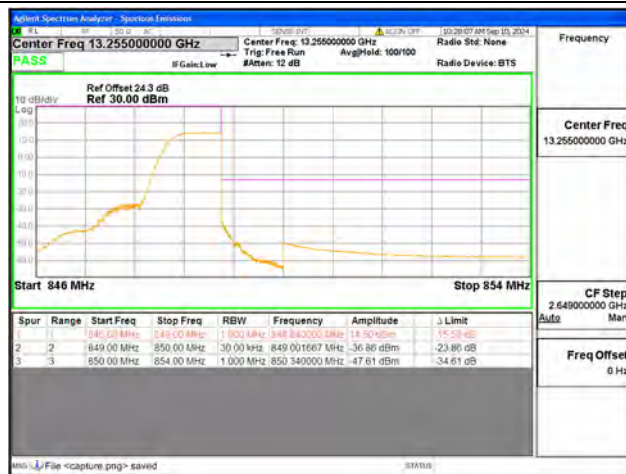
B4 / 20MHz / High CH / QPSK / FULL RB



B5 / 1.4MHz / Low CH / QPSK / 1 RB



B5 / 1.4MHz / Low CH / QPSK / FULL RB



B5 / 1.4MHz / High CH / QPSK / 1 RB



B5 / 1.4MHz / High CH / QPSK / FULL RB



B5 / 3MHz / Low CH / QPSK / 1 RB



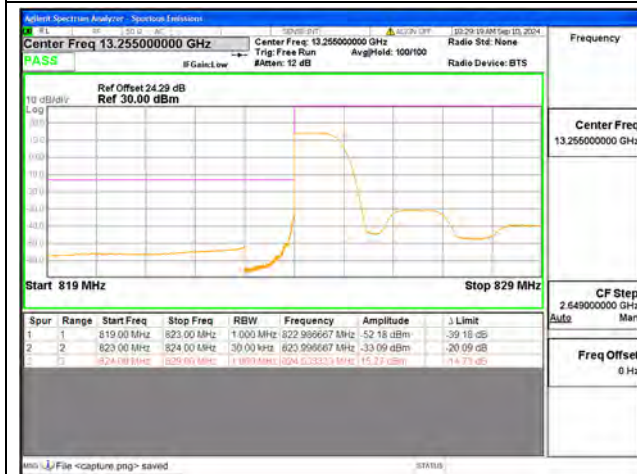
B5 / 3MHz / Low CH / QPSK / FULL RB



B5 / 3MHz / High CH / QPSK / 1 RB



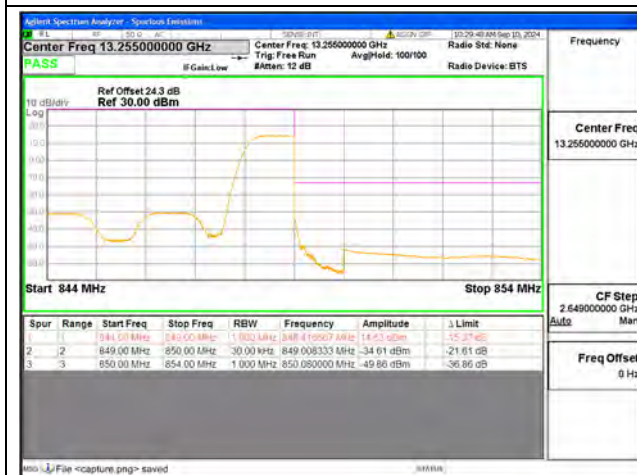
B5 / 3MHz / High CH / QPSK / FULL RB



B5 / 5MHz / Low CH / QPSK / 1 RB



B5 / 5MHz / Low CH / QPSK / FULL RB



B5 / 5MHz / High CH / QPSK / 1 RB



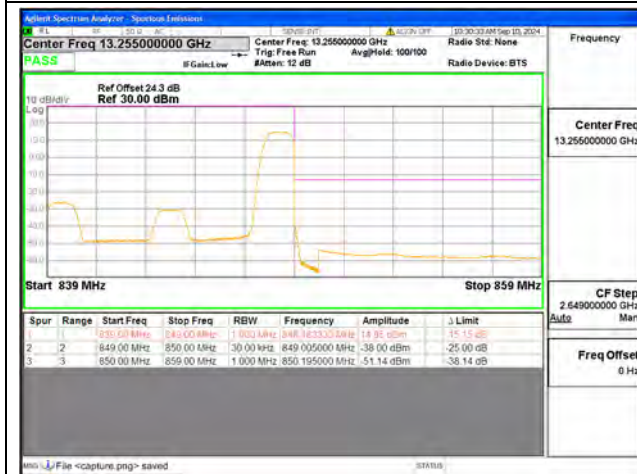
B5 / 5MHz / High CH / QPSK / FULL RB



B5 / 10MHz / Low CH / QPSK / 1 RB



B5 / 10MHz / Low CH / QPSK / FULL RB



B5 / 10MHz / High CH / QPSK / 1 RB



B5 / 10MHz / High CH / QPSK / FULL RB



B12 / 1.4MHz / Low CH / QPSK / 1 RB



B12 / 1.4MHz / Low CH / QPSK / FULL RB



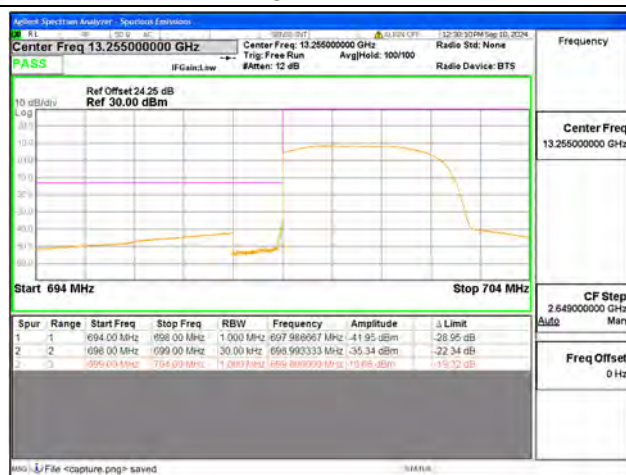
B12 / 1.4MHz / High CH / QPSK / 1 RB



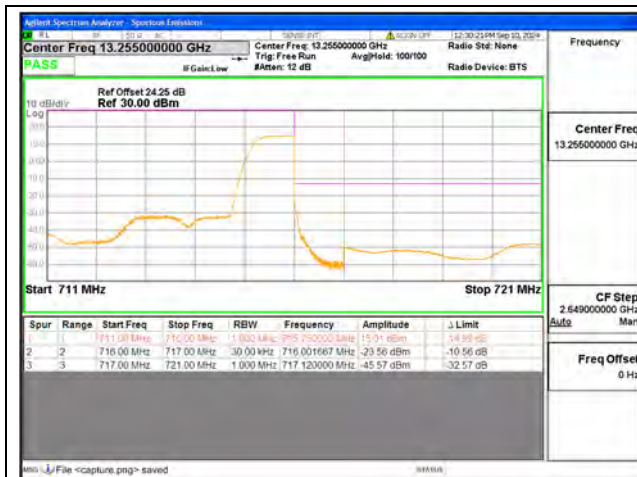
B12 / 1.4MHz / High CH / QPSK / FULL RB



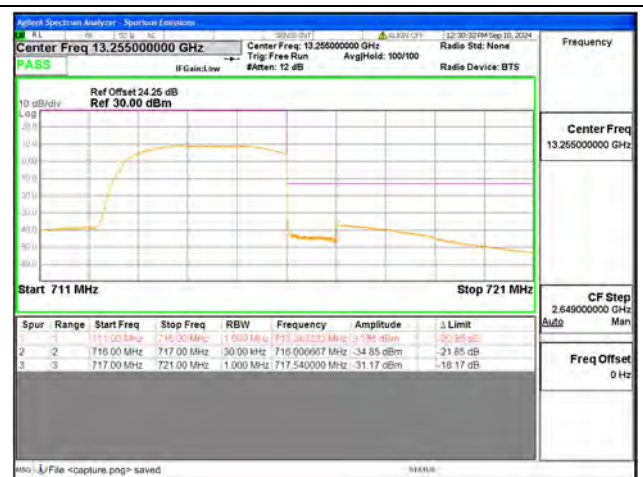
B12 / 3MHz / Low CH / QPSK / 1 RB



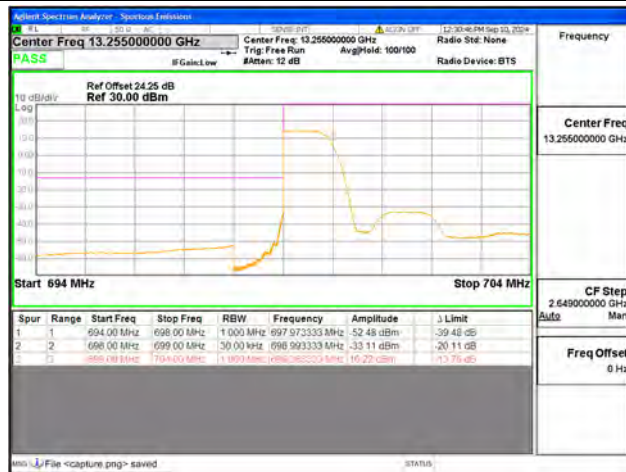
B12 / 3MHz / Low CH / QPSK / FULL RB



B12 / 3MHz / High CH / QPSK / 1 RB



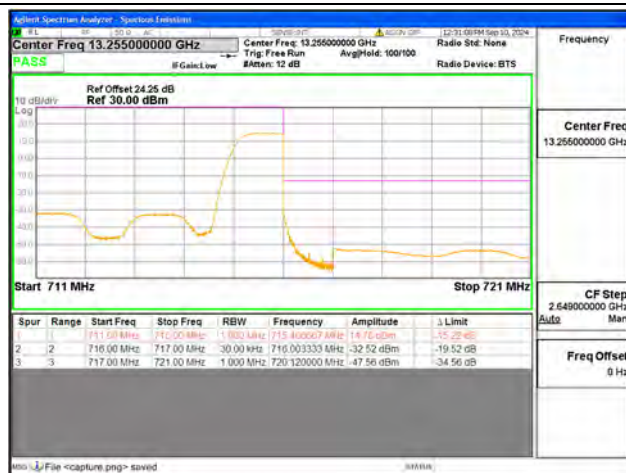
B12 / 3MHz / High CH / QPSK / FULL RB



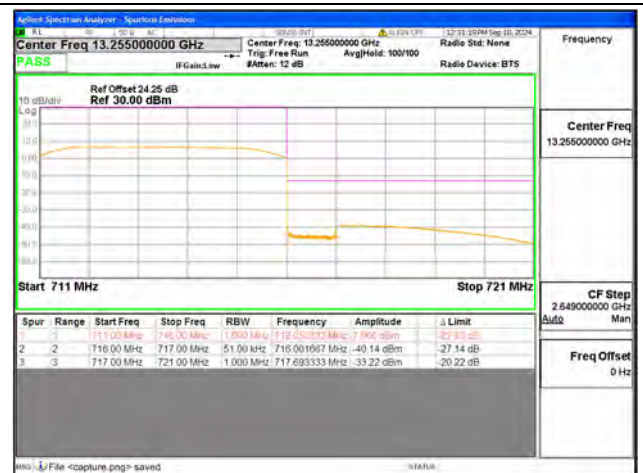
B12 / 5MHz / Low CH / QPSK / 1 RB



B12 / 5MHz / Low CH / QPSK / FULL RB



B12 / 5MHz / High CH / QPSK / 1 RB



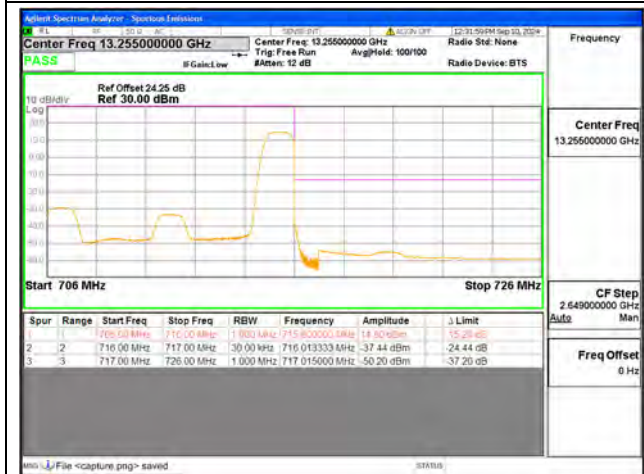
B12 / 5MHz / High CH / QPSK / FULL RB



B12 / 10MHz / Low CH / QPSK / 1 RB



B12 / 10MHz / Low CH / QPSK / FULL RB



B12 / 10MHz / High CH / QPSK / 1 RB



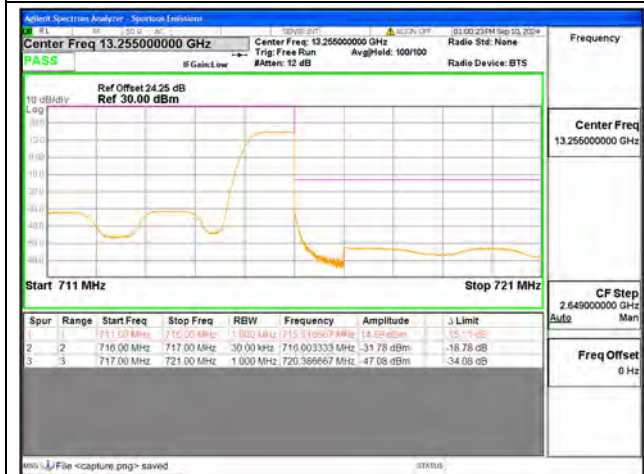
B12 / 10MHz / High CH / QPSK / FULL RB



B17 / 5MHz / Low CH / QPSK / 1 RB



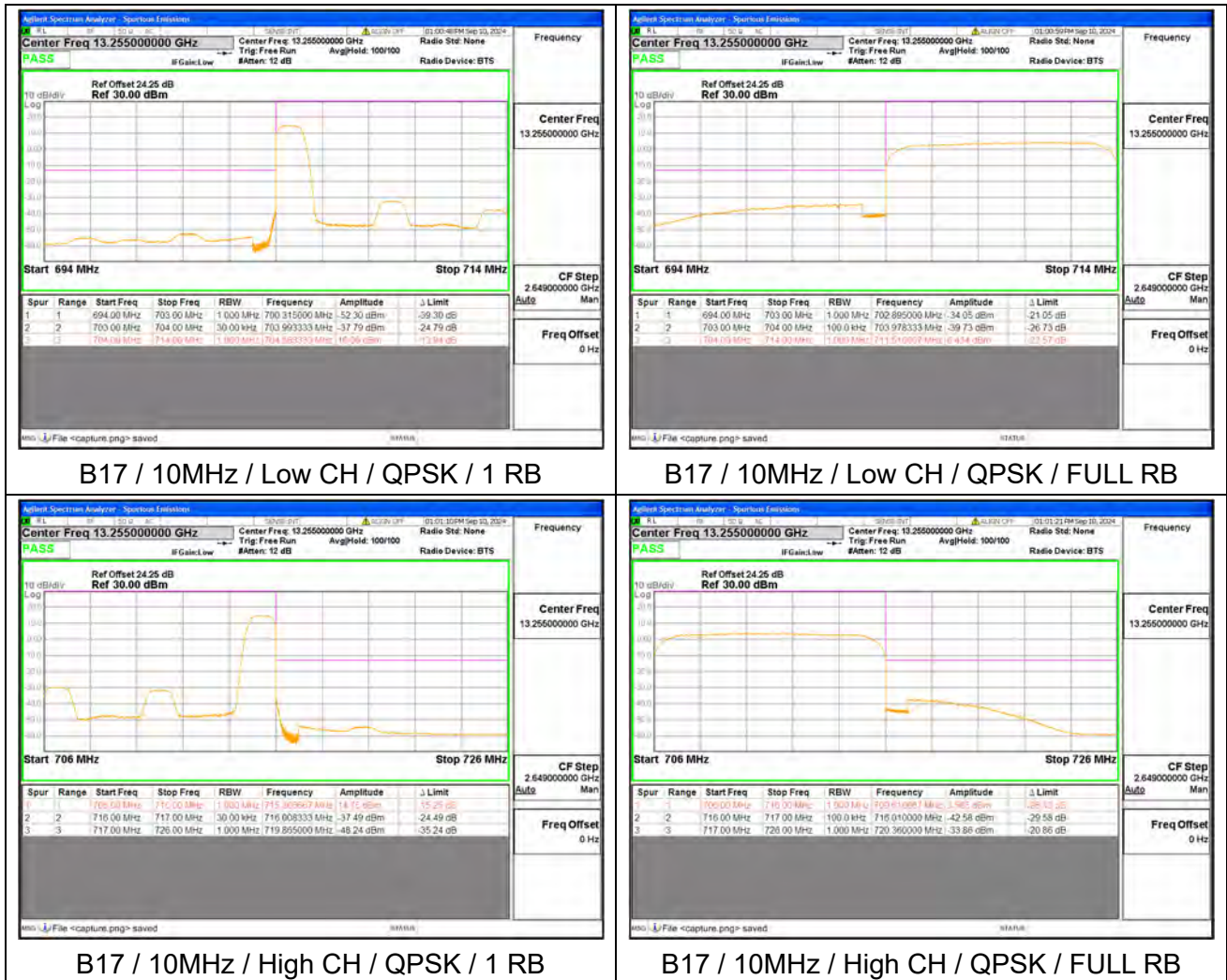
B17 / 5MHz / Low CH / QPSK / FULL RB



B17 / 5MHz / High CH / QPSK / 1 RB



B17 / 5MHz / High CH / QPSK / FULL RB

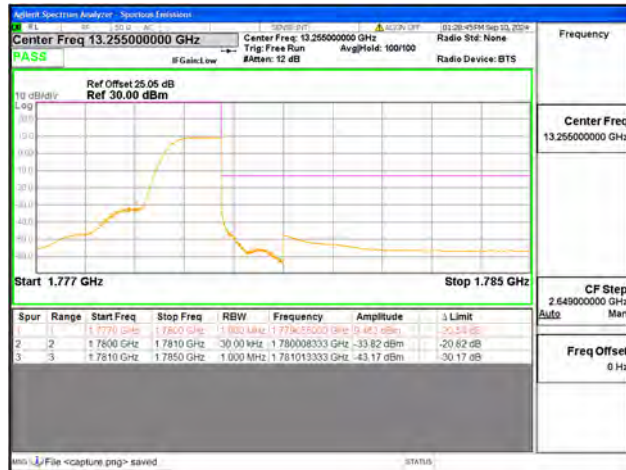




B66 / 1.4MHz / Low CH / QPSK / 1 RB



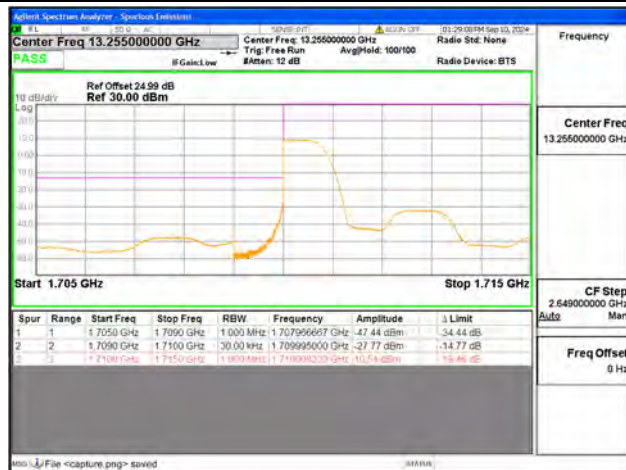
B66 / 1.4MHz / Low CH / QPSK / FULL RB



B66 / 1.4MHz / High CH / QPSK / 1 RB



B66 / 1.4MHz / High CH / QPSK / FULL RB



B66 / 3MHz / Low CH / QPSK / 1 RB



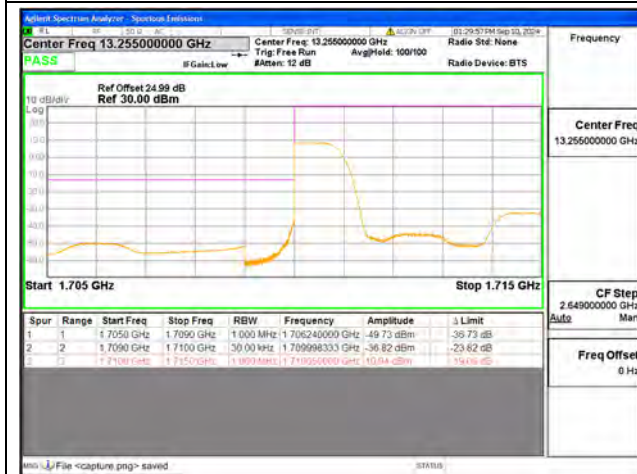
B66 / 3MHz / Low CH / QPSK / FULL RB



B66 / 3MHz / High CH / QPSK / 1 RB



B66 / 3MHz / High CH / QPSK / FULL RB



B66 / 5MHz / Low CH / QPSK / 1 RB



B66 / 5MHz / Low CH / QPSK / FULL RB



B66 / 5MHz / High CH / QPSK / 1 RB



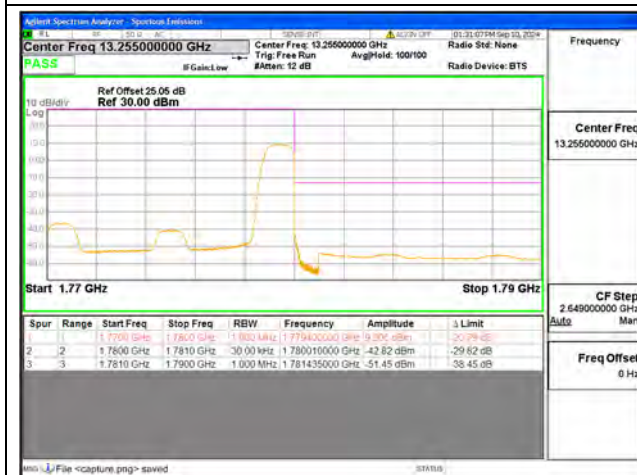
B66 / 5MHz / High CH / QPSK / FULL RB



B66 / 10MHz / Low CH / QPSK / 1 RB



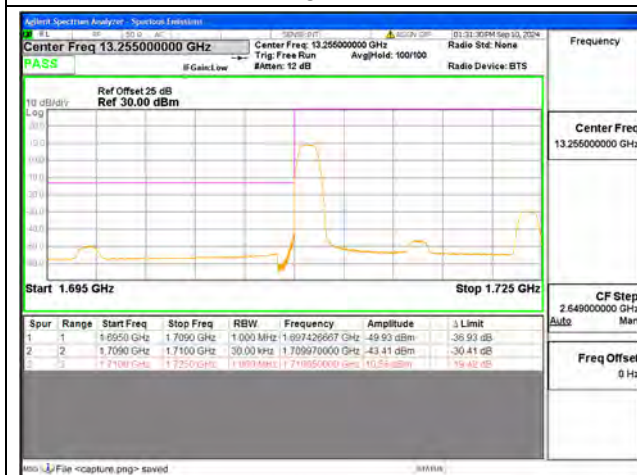
B66 / 10MHz / Low CH / QPSK / FULL RB



B66 / 10MHz / High CH / QPSK / 1 RB



B66 / 10MHz / High CH / QPSK / FULL RB



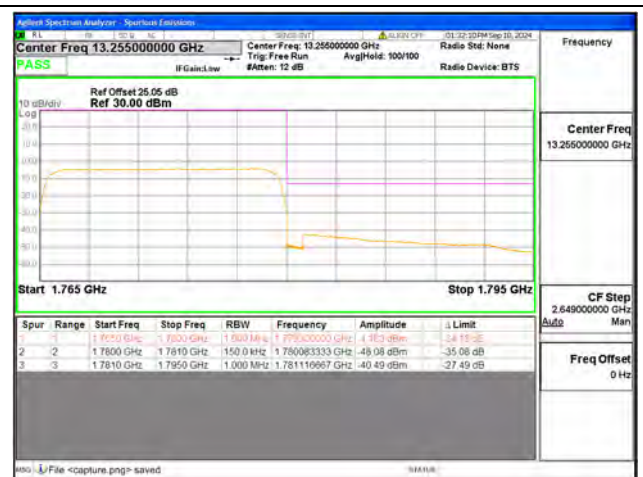
B66 / 15MHz / Low CH / QPSK / 1 RB



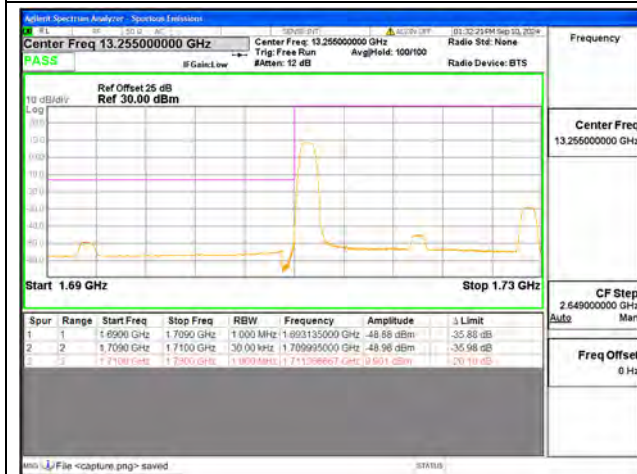
B66 / 15MHz / Low CH / QPSK / FULL RB



B66 / 15MHz / High CH / QPSK / 1 RB



B66 / 15MHz / High CH / QPSK / FULL RB



B66 / 20MHz / Low CH / QPSK / 1 RB



B66 / 20MHz / Low CH / QPSK / FULL RB



B66 / 20MHz / High CH / QPSK / 1 RB



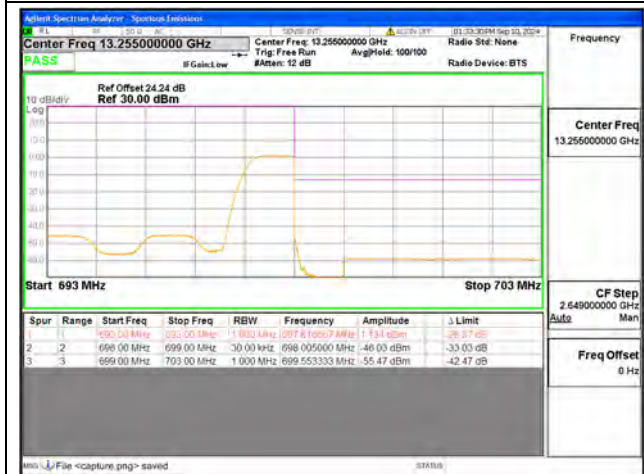
B66 / 20MHz / High CH / QPSK / FULL RB



B71 / 5MHz / Low CH / QPSK / 1 RB



B71 / 5MHz / Low CH / QPSK / FULL RB



B71 / 5MHz / High CH / QPSK / 1 RB



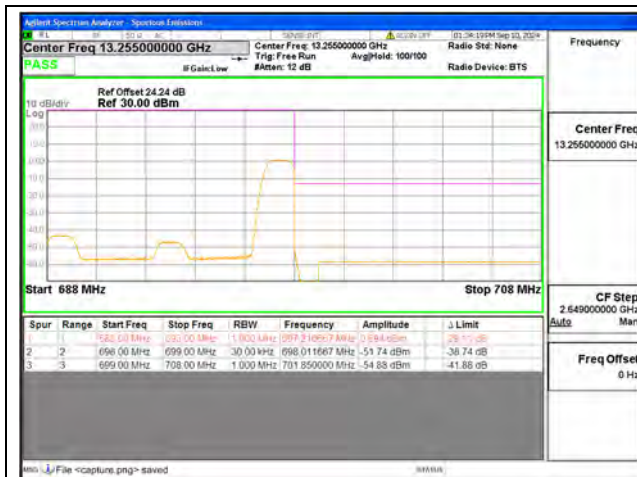
B71 / 5MHz / High CH / QPSK / FULL RB



B71 / 10MHz / Low CH / QPSK / 1 RB



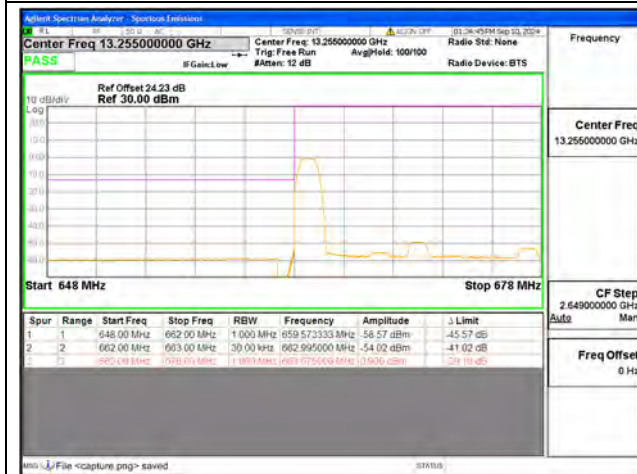
B71 / 10MHz / Low CH / QPSK / FULL RB



B71 / 10MHz / High CH / QPSK / 1 RB



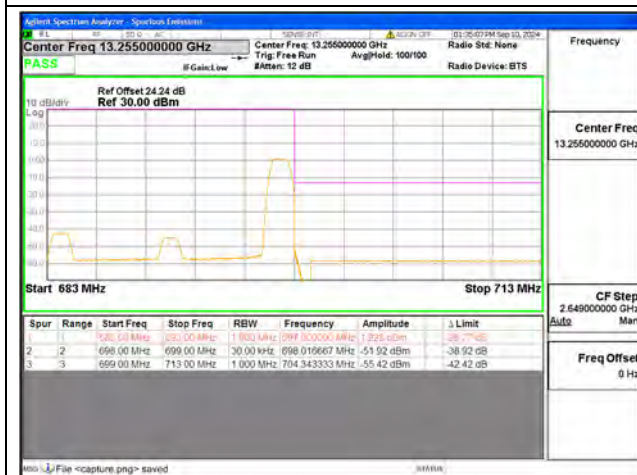
B71 / 10MHz / High CH / QPSK / FULL RB



B71 / 15MHz / Low CH / QPSK / 1 RB



B71 / 15MHz / Low CH / QPSK / FULL RB



B71 / 15MHz / High CH / QPSK / 1 RB



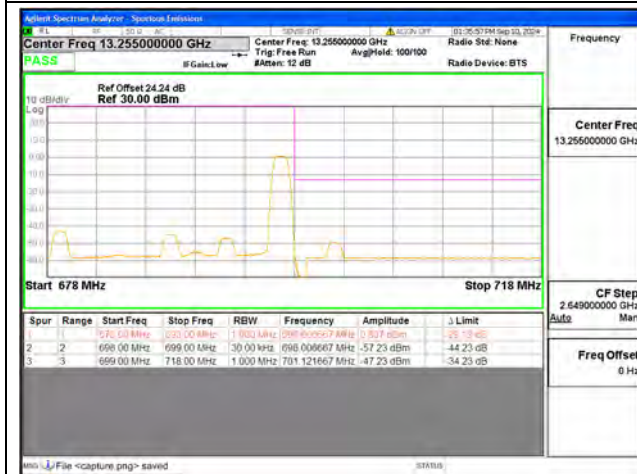
B71 / 15MHz / High CH / QPSK / FULL RB



B71 / 20MHz / Low CH / QPSK / 1 RB



B71 / 20MHz / Low CH / QPSK / FULL RB



B71 / 20MHz / High CH / QPSK / 1 RB



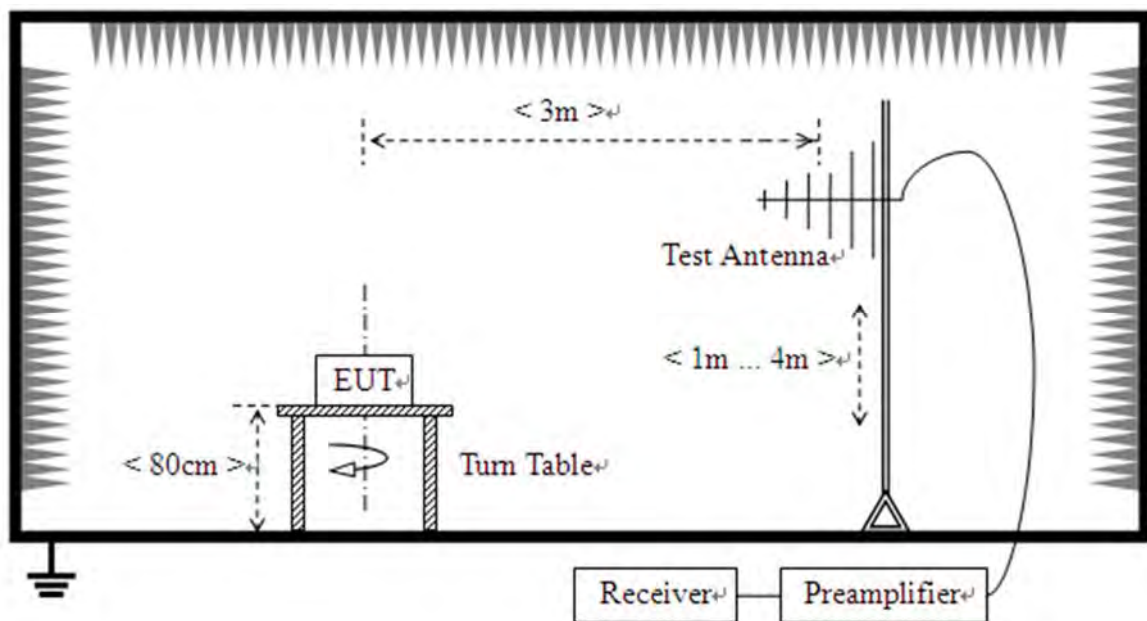
B71 / 20MHz / High CH / QPSK / FULL RB

2.7. Radiated Spurious Emissions

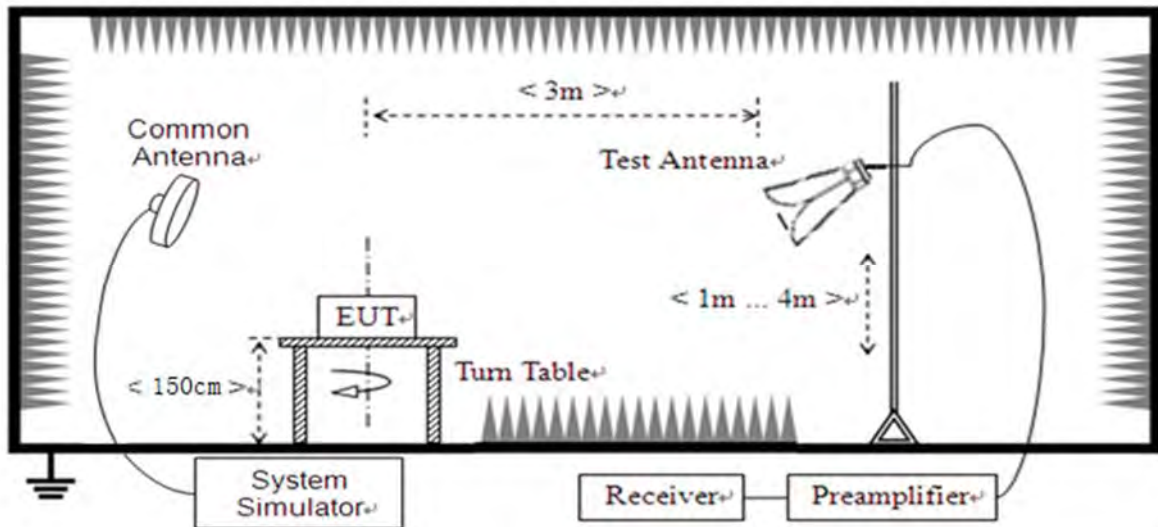
2.7.1. Requirement

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 $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm.

2.7.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(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.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.



2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

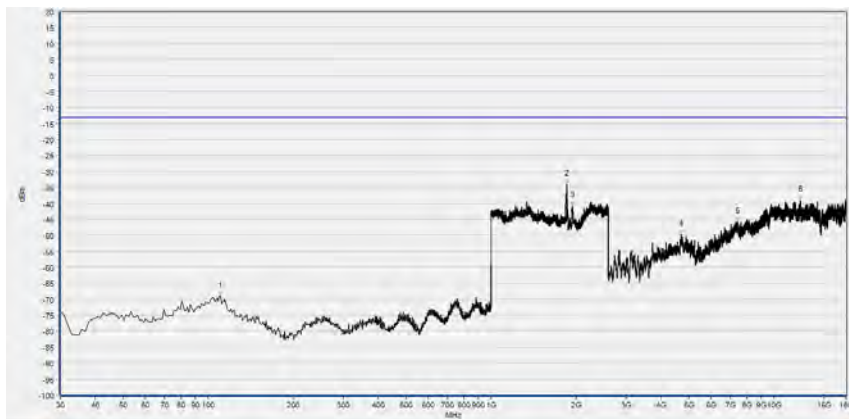
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

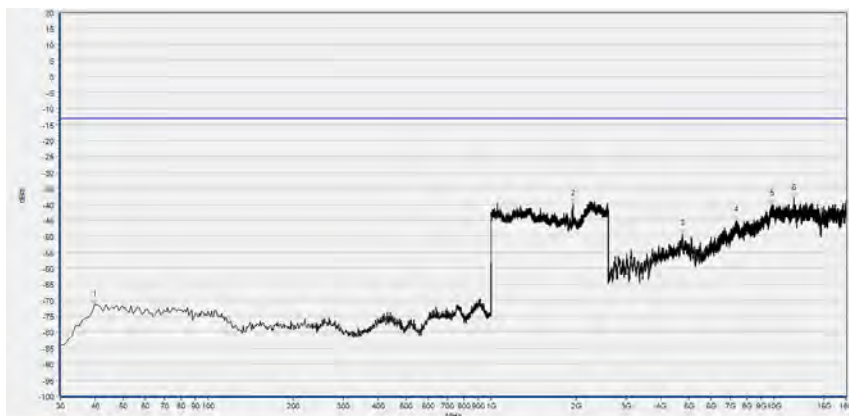
Note4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

Note5: The amplitude of emissions(18GHz to 10th harmonics) which are attenuated more than 20 dB below the limit are not be reported.

LTE Band 2, 20MHz BW, Low Channel, QPSK

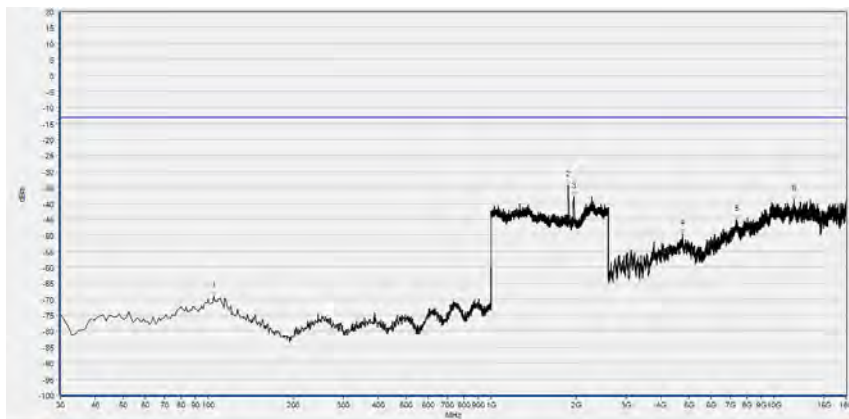


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	110.510	-68.91	-13.00	Horizontal	PASS
2	1852.181	-34.08	-13.00	Horizontal	N/A
3	1935.414	-40.79	-13.00	Horizontal	N/A
4	4708.783	-49.69	-13.00	Horizontal	PASS
5	7419.676	-45.76	-13.00	Horizontal	PASS
6	12426.987	-39.00	-13.00	Horizontal	PASS

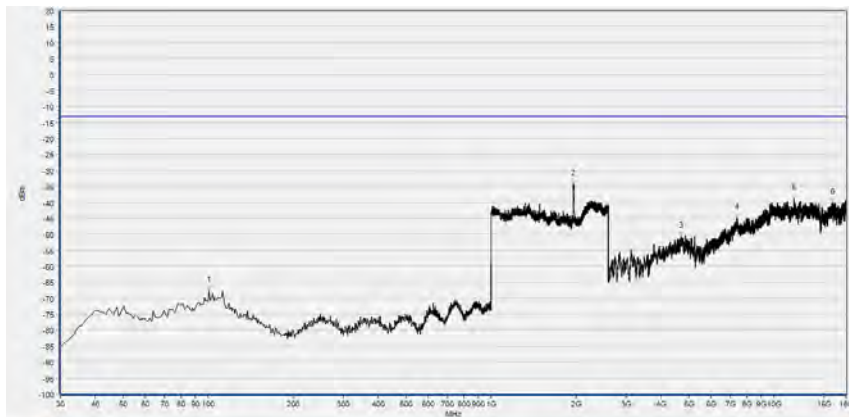


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	39.700	-71.39	-13.00	Vertical	PASS
2	1947.579	-39.93	-13.00	Vertical	N/A
3	4739.589	-49.37	-13.00	Vertical	PASS
4	7335.661	-44.96	-13.00	Vertical	PASS
5	9816.912	-39.92	-13.00	Vertical	PASS
6	11774.468	-38.19	-13.00	Vertical	PASS

LTE Band 2, 20MHz BW, Mid Channel, QPSK

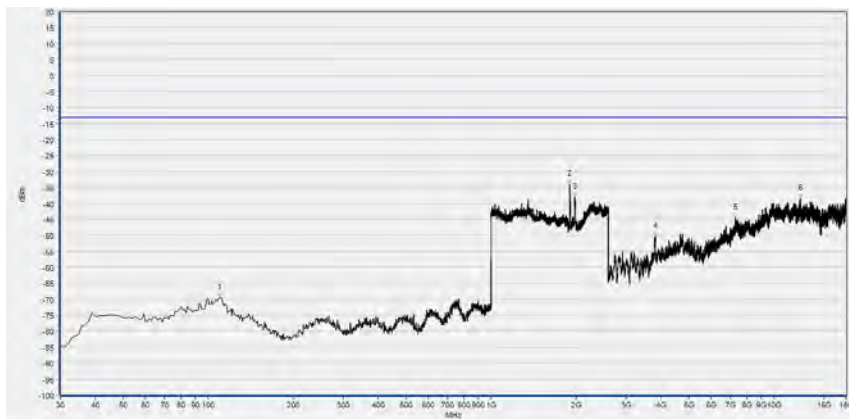


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	104.690	-68.83	-13.00	Horizontal	PASS
2	1875.230	-34.22	-13.00	Horizontal	N/A
3	1958.463	-37.98	-13.00	Horizontal	N/A
4	4750.791	-49.46	-13.00	Horizontal	PASS
5	7400.073	-44.97	-13.00	Horizontal	PASS
6	11760.466	-38.78	-13.00	Horizontal	PASS

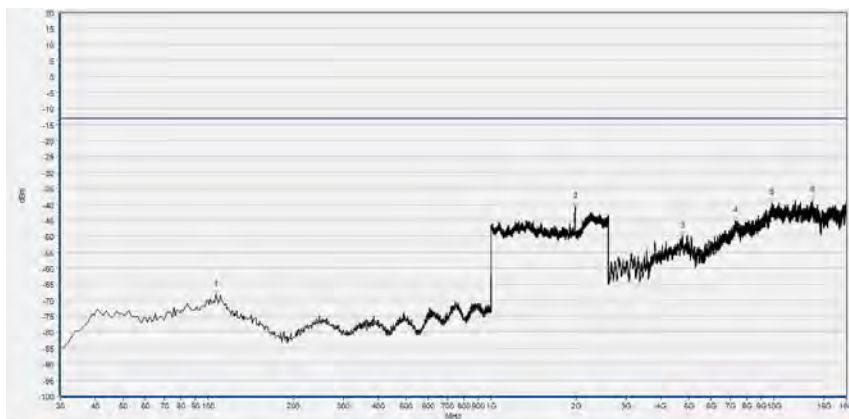


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	100.810	-67.57	-13.00	Vertical	PASS
2	1957.183	-34.39	-13.00	Vertical	N/A
3	4689.180	-50.67	-13.00	Vertical	PASS
4	7388.871	-44.89	-13.00	Vertical	PASS
5	11766.067	-38.67	-13.00	Vertical	PASS
6	16132.060	-40.17	-13.00	Vertical	PASS

LTE Band 2, 20MHz BW, High Channel, QPSK

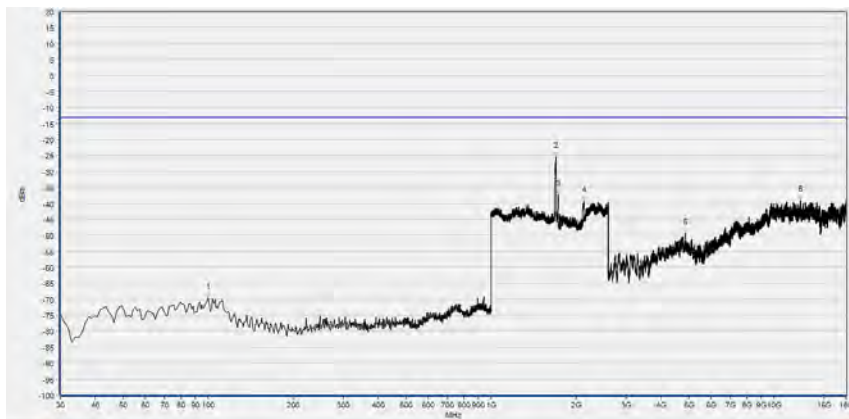


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.540	-69.51	-13.00	Horizontal	PASS
2	1900.840	-34.09	-13.00	Horizontal	N/A
3	1974.470	-38.13	-13.00	Horizontal	N/A
4	3807.019	-50.32	-13.00	Horizontal	PASS
5	7304.855	-44.57	-13.00	Horizontal	PASS
6	12396.181	-38.61	-13.00	Horizontal	PASS

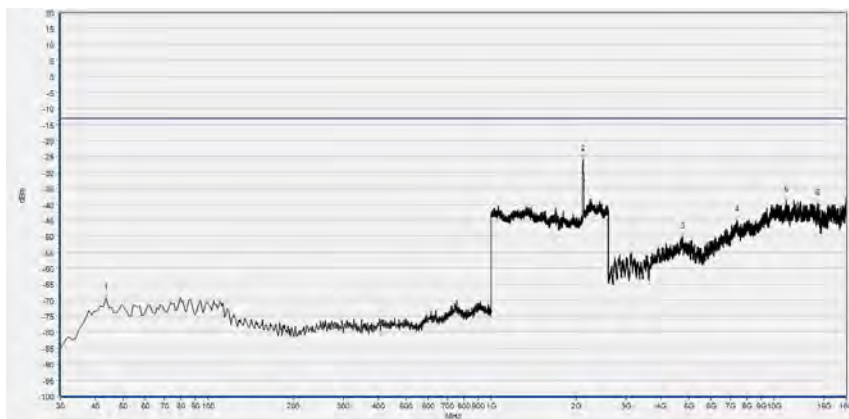


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-68.24	-13.00	Vertical	PASS
2	1982.153	-40.89	-13.00	Vertical	N/A
3	4750.791	-49.92	-13.00	Vertical	PASS
4	7296.454	-45.19	-13.00	Vertical	PASS
5	9828.114	-39.42	-13.00	Vertical	PASS
6	13712.420	-38.74	-13.00	Vertical	PASS

LTE Band 4, 20MHz BW, Low Channel, QPSK

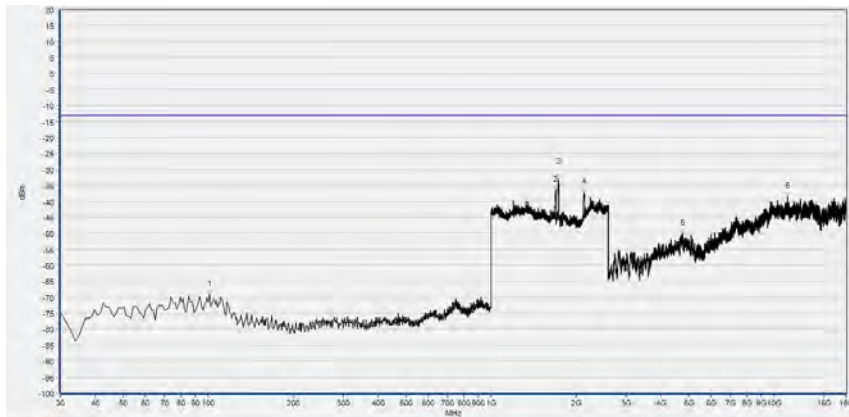


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	99.910	-69.70	-13.00	Horizontal	PASS
2	1693.947	-25.25	-13.00	Horizontal	N/A
3	1726.763	-37.17	-13.00	Horizontal	N/A
4	2128.564	-39.32	-13.00	Horizontal	PASS
5	4871.879	-49.20	-13.00	Horizontal	PASS
6	12393.466	-39.07	-13.00	Horizontal	PASS

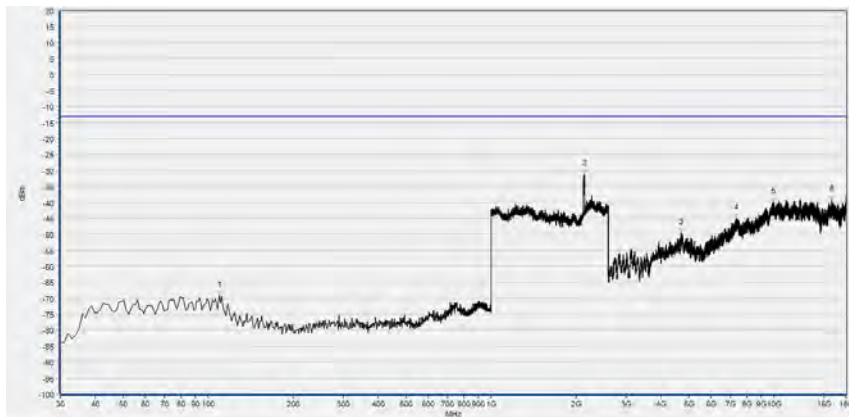


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	43.594	-69.39	-13.00	Vertical	PASS
2	2113.357	-25.83	-13.00	Vertical	N/A
3	4740.957	-50.13	-13.00	Vertical	PASS
4	7410.735	-45.10	-13.00	Vertical	PASS
5	11048.308	-38.83	-13.00	Vertical	PASS
6	14270.012	-39.66	-13.00	Vertical	PASS

LTE Band 4, 20MHz BW, Mid Channel, QPSK

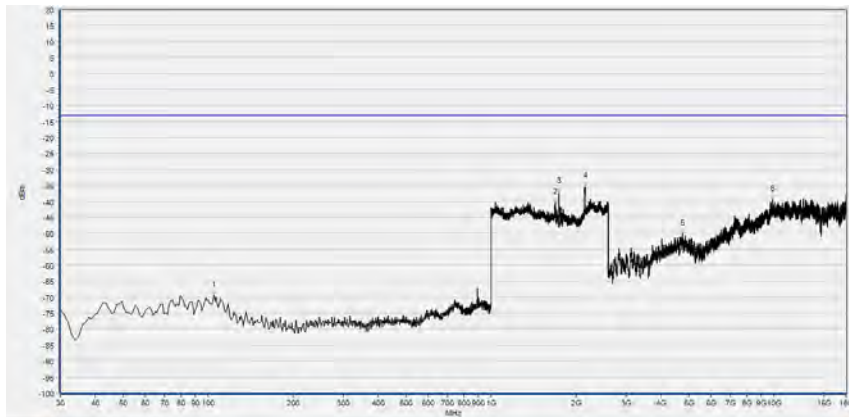


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	100.881	-69.05	-13.00	Horizontal	PASS
2	1692.346	-36.53	-13.00	Horizontal	N/A
3	1724.362	-33.02	-13.00	Horizontal	N/A
4	2132.566	-37.27	-13.00	Horizontal	PASS
5	4764.061	-50.27	-13.00	Horizontal	PASS
6	11176.663	-38.60	-13.00	Horizontal	PASS

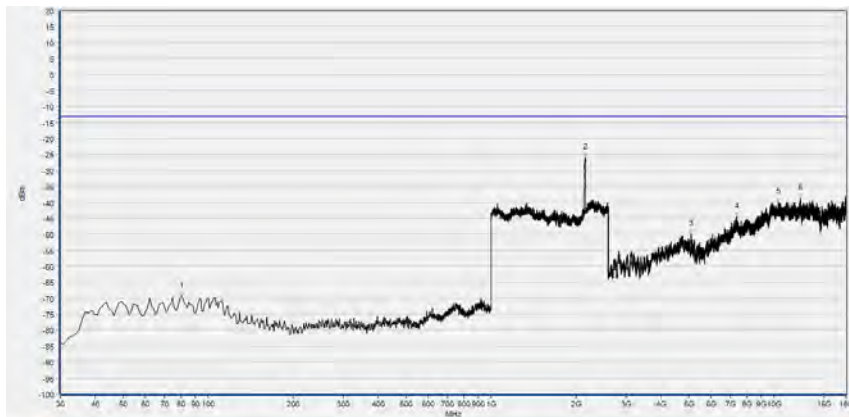


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.620	-69.21	-13.00	Vertical	PASS
2	2140.570	-31.12	-13.00	Vertical	N/A
3	4697.316	-49.44	-13.00	Vertical	PASS
4	7338.856	-45.03	-13.00	Vertical	PASS
5	9941.890	-39.94	-13.00	Vertical	PASS
6	16033.606	-39.33	-13.00	Vertical	PASS

LTE Band 4, 20MHz BW, High Channel, QPSK

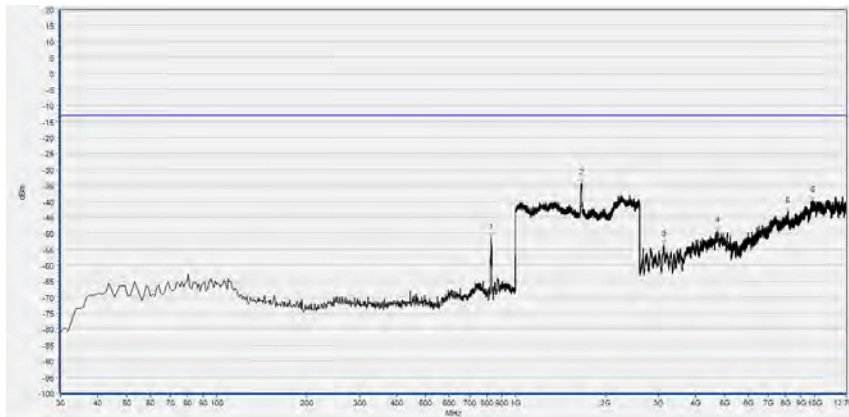


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	104.765	-69.48	-13.00	Horizontal	PASS
2	1686.743	-40.27	-13.00	Horizontal	N/A
3	1736.368	-37.52	-13.00	Horizontal	N/A
4	2150.975	-35.36	-13.00	Horizontal	PASS
5	4740.957	-50.27	-13.00	Horizontal	PASS
6	9895.683	-39.53	-13.00	Horizontal	PASS

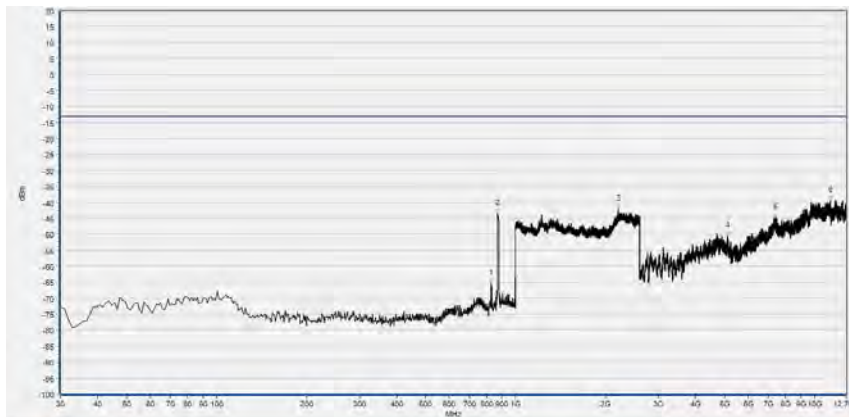


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	80.490	-69.31	-13.00	Vertical	PASS
2	2152.576	-26.12	-13.00	Vertical	N/A
3	5108.051	-49.84	-13.00	Vertical	PASS
4	7372.229	-44.67	-13.00	Vertical	PASS
5	10347.491	-39.80	-13.00	Vertical	PASS
6	12426.838	-38.71	-13.00	Vertical	PASS

LTE Band 5, 10MHz BW, Low Channel, QPSK

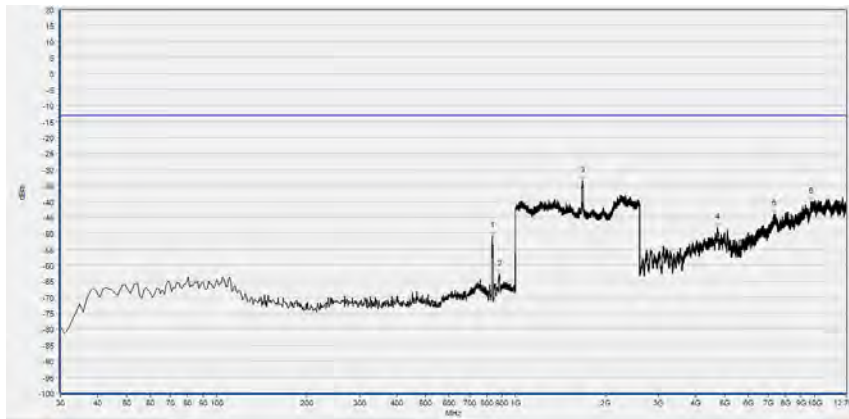


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-51.22	-13.00	Horizontal	N/A
2	1662.665	-34.26	-13.00	Horizontal	N/A
3	3140.817	-53.47	-13.00	Horizontal	PASS
4	4731.888	-49.20	-13.00	Horizontal	PASS
5	8131.833	-43.17	-13.00	Horizontal	PASS
6	9818.885	-39.69	-13.00	Horizontal	PASS

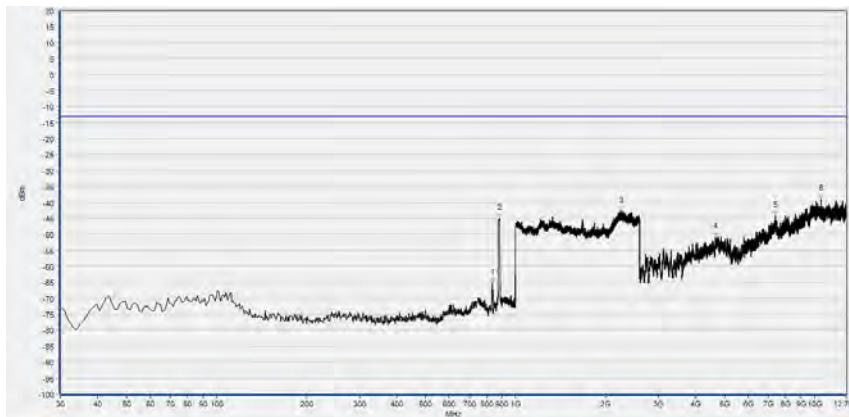


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-65.43	-13.00	Vertical	N/A
2	870.020	-43.42	-13.00	Vertical	N/A
3	2198.559	-42.02	-13.00	Vertical	PASS
4	5115.812	-50.70	-13.00	Vertical	PASS
5	7410.129	-44.77	-13.00	Vertical	PASS
6	11308.438	-39.37	-13.00	Vertical	PASS

LTE Band 5, 10MHz BW, Mid Channel, QPSK

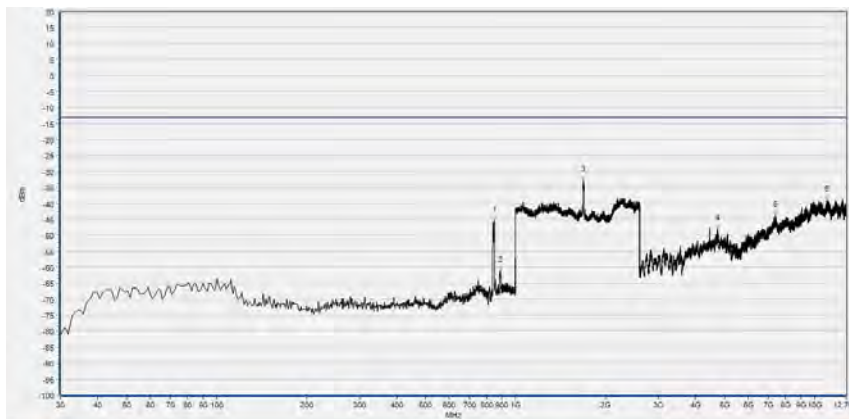


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	835.100	-50.92	-13.00	Horizontal	N/A
2	885.540	-62.99	-13.00	Horizontal	N/A
3	1672.269	-33.55	-13.00	Horizontal	PASS
4	4741.117	-48.20	-13.00	Horizontal	PASS
5	7323.377	-43.90	-13.00	Horizontal	PASS
6	9739.516	-40.11	-13.00	Horizontal	PASS

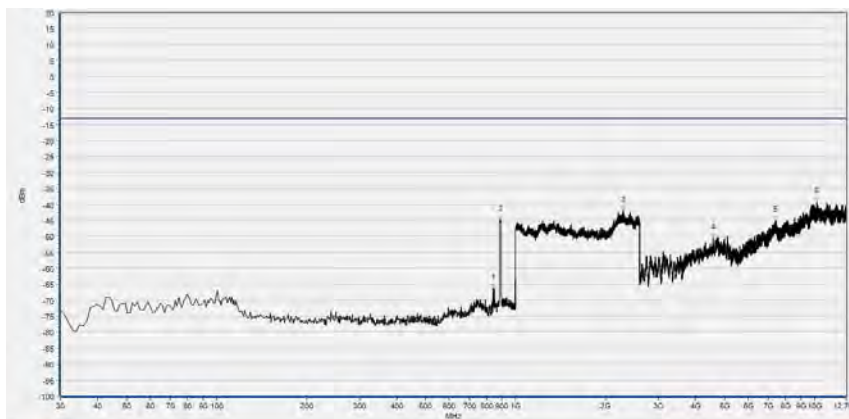


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	835.100	-65.07	-13.00	Vertical	N/A
2	884.570	-45.10	-13.00	Vertical	N/A
3	2259.384	-42.87	-13.00	Vertical	PASS
4	4659.902	-50.80	-13.00	Vertical	PASS
5	7389.825	-44.06	-13.00	Vertical	PASS
6	10520.286	-38.92	-13.00	Vertical	PASS

LTE Band 5, 10MHz BW, High Channel, QPSK

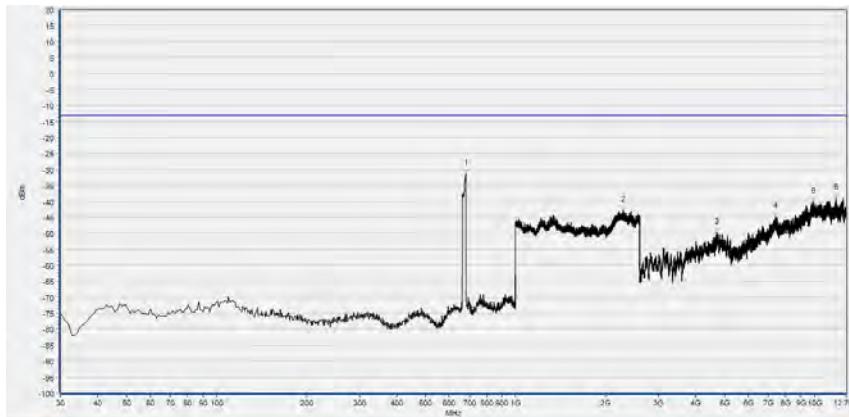


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-45.53	-13.00	Horizontal	N/A
2	887.480	-61.20	-13.00	Horizontal	N/A
3	1687.635	-32.66	-13.00	Horizontal	PASS
4	4744.808	-47.92	-13.00	Horizontal	PASS
5	7404.592	-43.64	-13.00	Horizontal	PASS
6	11000.191	-39.05	-13.00	Horizontal	PASS

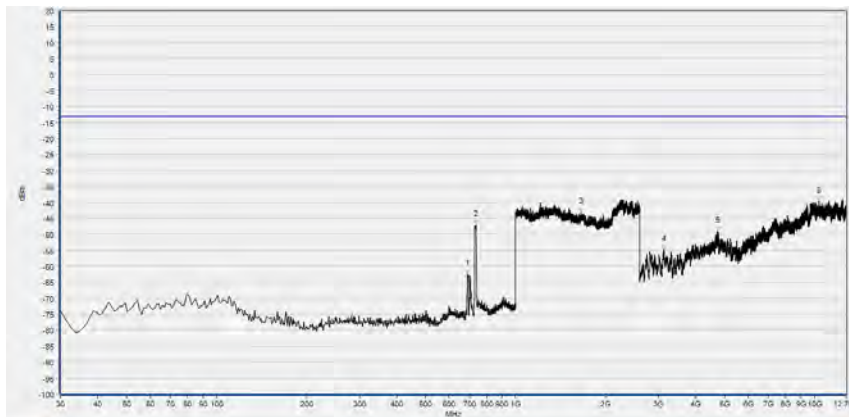


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	843.830	-66.28	-13.00	Vertical	N/A
2	890.390	-44.73	-13.00	Vertical	N/A
3	2295.878	-41.80	-13.00	Vertical	PASS
4	4578.687	-50.55	-13.00	Vertical	PASS
5	7382.442	-45.10	-13.00	Vertical	PASS
6	10199.118	-39.22	-13.00	Vertical	PASS

LTE Band 12, 10MHz BW, Low Channel, QPSK

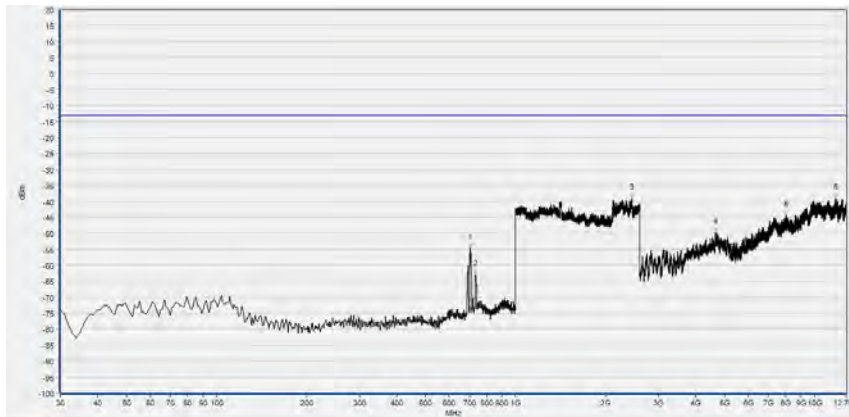


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	681.840	-31.31	-13.00	Horizontal	N/A
2	2290.116	-42.73	-13.00	Horizontal	N/A
3	4700.509	-49.74	-13.00	Horizontal	PASS
4	7406.438	-44.70	-13.00	Horizontal	PASS
5	9892.717	-40.11	-13.00	Horizontal	PASS
6	11792.035	-38.89	-13.00	Horizontal	PASS

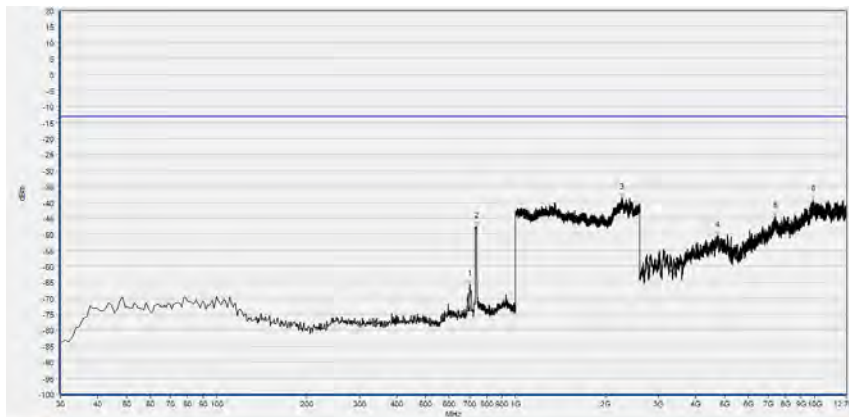


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	692.202	-62.35	-13.00	Vertical	N/A
2	737.838	-46.98	-13.00	Vertical	N/A
3	1657.286	-42.98	-13.00	Vertical	PASS
4	3129.936	-54.96	-13.00	Vertical	PASS
5	4744.109	-49.02	-13.00	Vertical	PASS
6	10352.090	-39.55	-13.00	Vertical	PASS

LTE Band 12, 10MHz BW, Mid Channel, QPSK

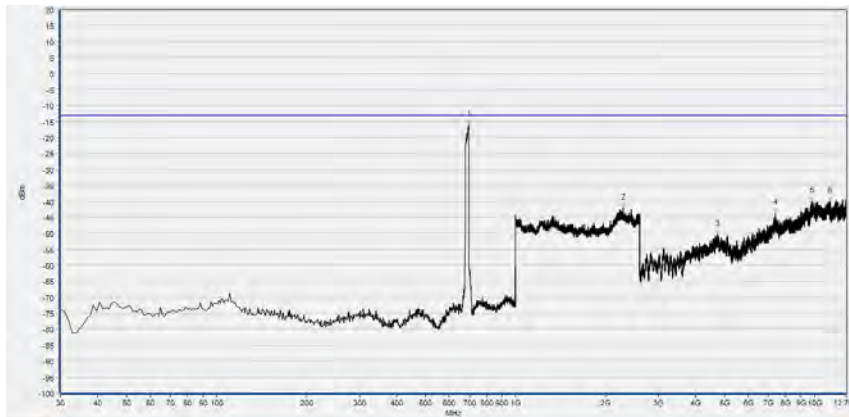


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	705.796	-54.73	-13.00	Horizontal	N/A
2	733.954	-62.99	-13.00	Horizontal	N/A
3	2448.483	-38.95	-13.00	Horizontal	PASS
4	4660.862	-49.71	-13.00	Horizontal	PASS
5	8031.336	-44.36	-13.00	Horizontal	PASS
6	11765.253	-38.90	-13.00	Horizontal	PASS

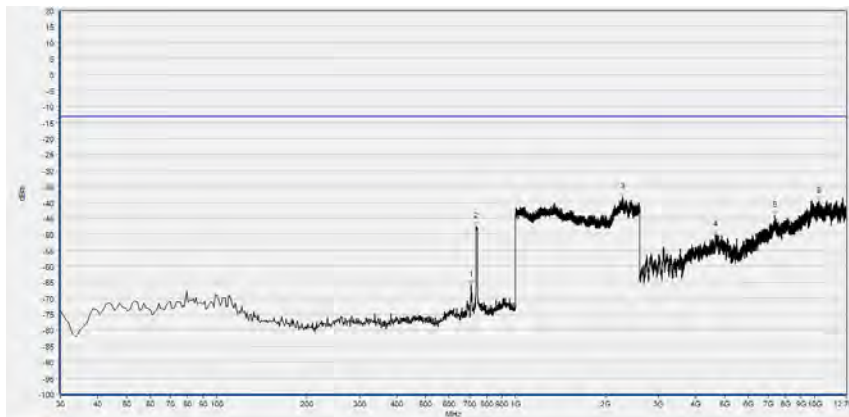


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	702.883	-65.59	-13.00	Vertical	N/A
2	739.780	-47.44	-13.00	Vertical	N/A
3	2269.757	-38.50	-13.00	Vertical	PASS
4	4744.109	-50.36	-13.00	Vertical	PASS
5	7381.606	-44.33	-13.00	Vertical	PASS
6	9903.371	-39.22	-13.00	Vertical	PASS

LTE Band 12, 10MHz BW, High Channel, QPSK

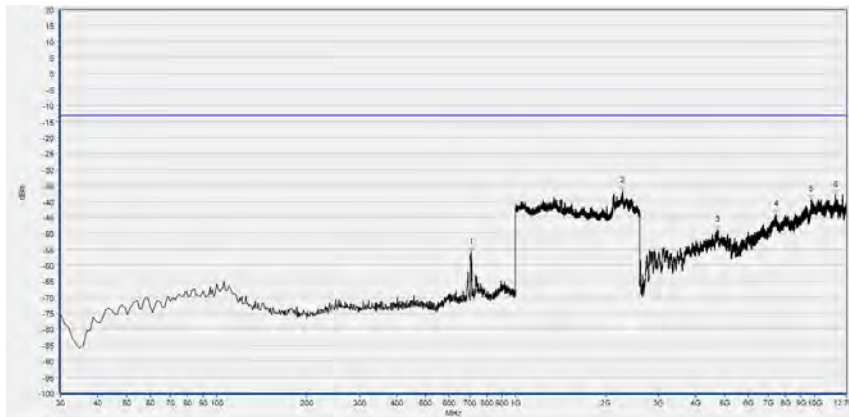


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	696.390	-15.88	-13.00	Horizontal	N/A
2	2286.275	-42.16	-13.00	Horizontal	PASS
3	4748.500	-50.49	-13.00	Horizontal	PASS
4	7384.288	-43.65	-13.00	Horizontal	PASS
5	9804.119	-39.90	-13.00	Horizontal	PASS
6	11223.532	-39.91	-13.00	Horizontal	PASS

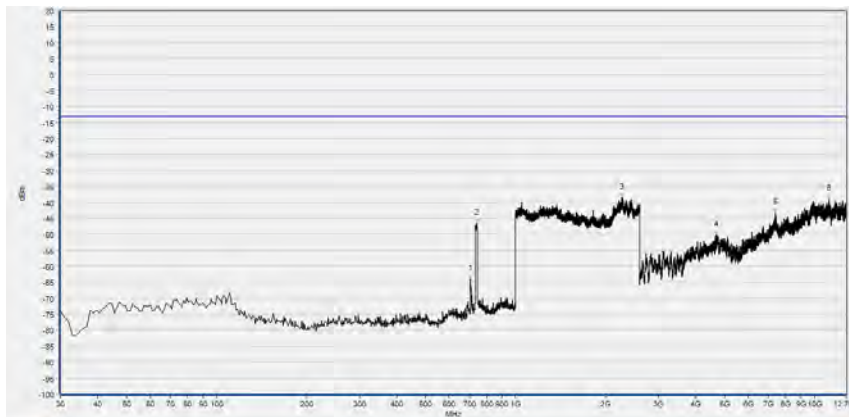


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	708.709	-65.76	-13.00	Vertical	N/A
2	738.809	-47.58	-13.00	Vertical	N/A
3	2282.561	-38.25	-13.00	Vertical	PASS
4	4660.862	-50.27	-13.00	Vertical	PASS
5	7347.089	-44.08	-13.00	Vertical	PASS
6	10343.969	-39.70	-13.00	Vertical	PASS

LTE Band 17, 10MHz BW, Low Channel, QPSK

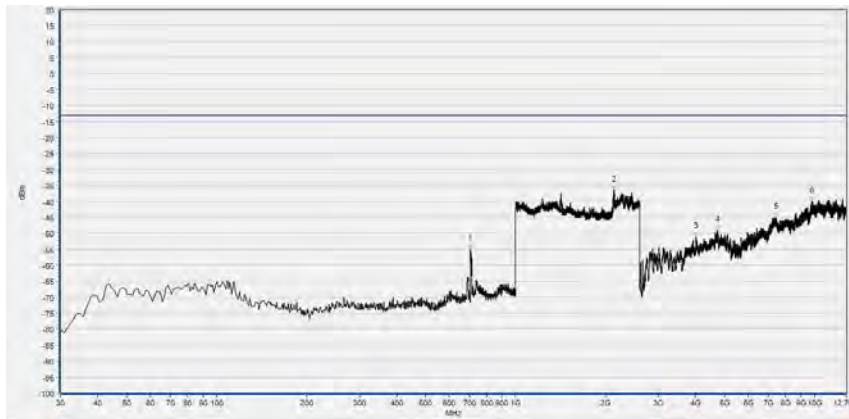


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	708.709	-56.01	-13.00	Horizontal	N/A
2	2277.226	-36.87	-13.00	Horizontal	PASS
3	4738.018	-49.00	-13.00	Horizontal	PASS
4	7422.214	-44.19	-13.00	Horizontal	PASS
5	9736.877	-39.43	-13.00	Horizontal	PASS
6	11767.283	-38.12	-13.00	Horizontal	PASS

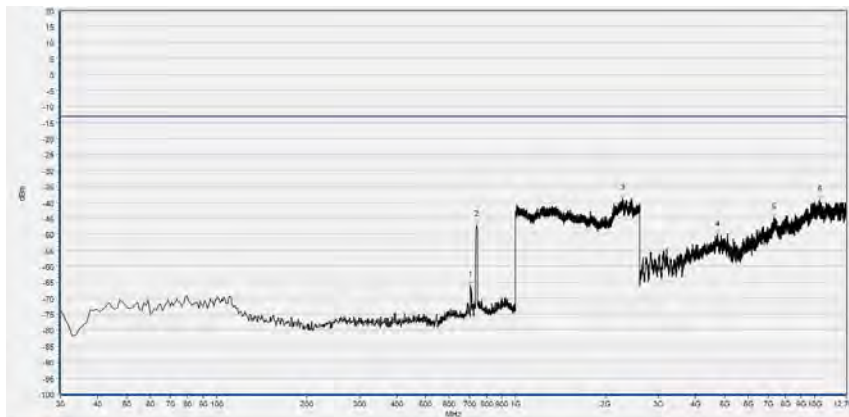


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	705.796	-64.10	-13.00	Vertical	N/A
2	742.693	-46.65	-13.00	Vertical	N/A
3	2265.488	-38.63	-13.00	Vertical	PASS
4	4675.075	-50.06	-13.00	Vertical	PASS
5	7397.850	-43.14	-13.00	Vertical	PASS
6	11196.739	-39.01	-13.00	Vertical	PASS

LTE Band 17, 10MHz BW, Mid Channel, QPSK

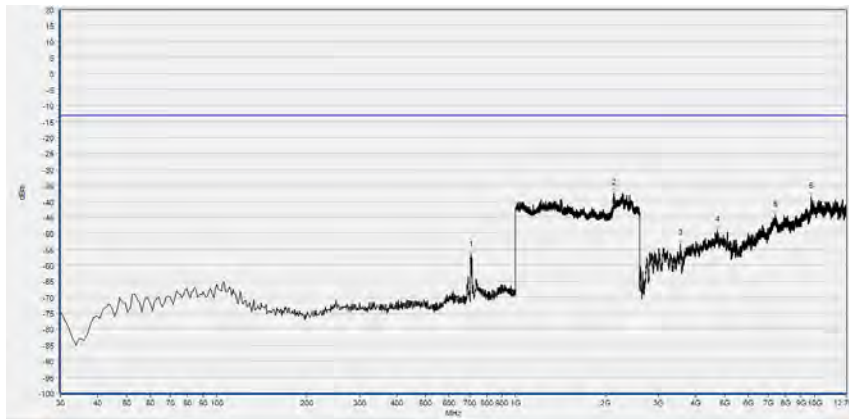


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	705.796	-55.16	-13.00	Horizontal	N/A
2	2127.843	-36.49	-13.00	Horizontal	PASS
3	4023.315	-50.97	-13.00	Horizontal	PASS
4	4740.048	-49.05	-13.00	Horizontal	PASS
5	7426.275	-45.03	-13.00	Horizontal	PASS
6	9816.063	-39.98	-13.00	Horizontal	PASS

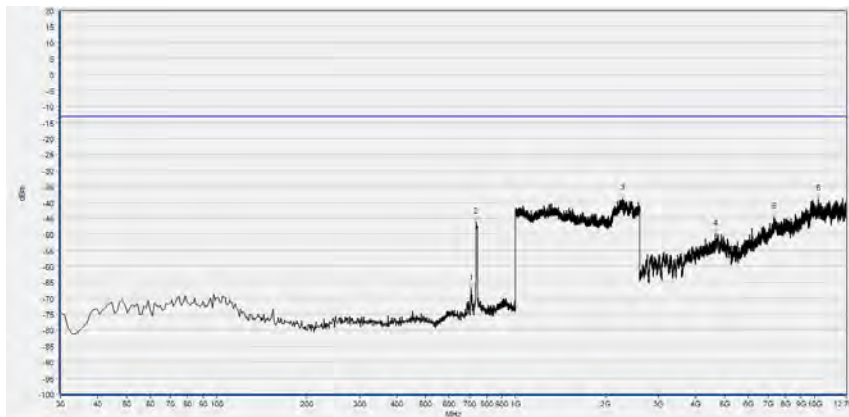


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	705.796	-66.13	-13.00	Vertical	N/A
2	740.751	-47.13	-13.00	Vertical	N/A
3	2279.893	-38.85	-13.00	Vertical	PASS
4	4742.078	-50.20	-13.00	Vertical	PASS
5	7316.633	-44.75	-13.00	Vertical	PASS
6	10404.881	-39.20	-13.00	Vertical	PASS

LTE Band 17, 10MHz BW, High Channel, QPSK

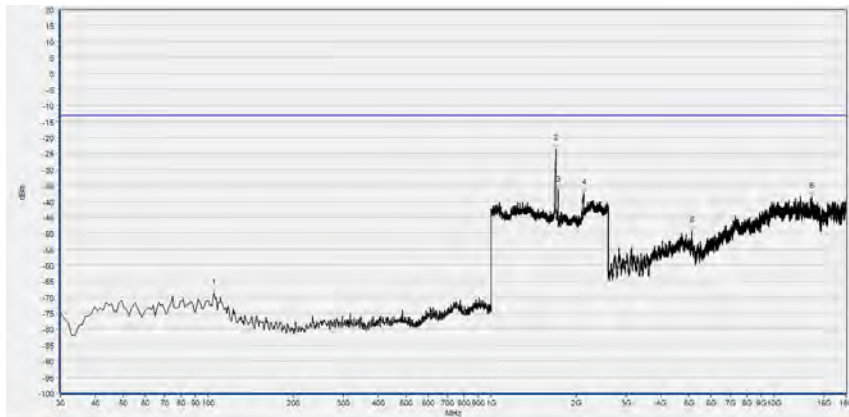


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	708.709	-56.89	-13.00	Horizontal	N/A
2	2131.577	-37.41	-13.00	Horizontal	PASS
3	3558.352	-53.38	-13.00	Horizontal	PASS
4	4733.957	-49.11	-13.00	Horizontal	PASS
5	7397.850	-44.31	-13.00	Horizontal	PASS
6	9751.090	-38.64	-13.00	Horizontal	PASS

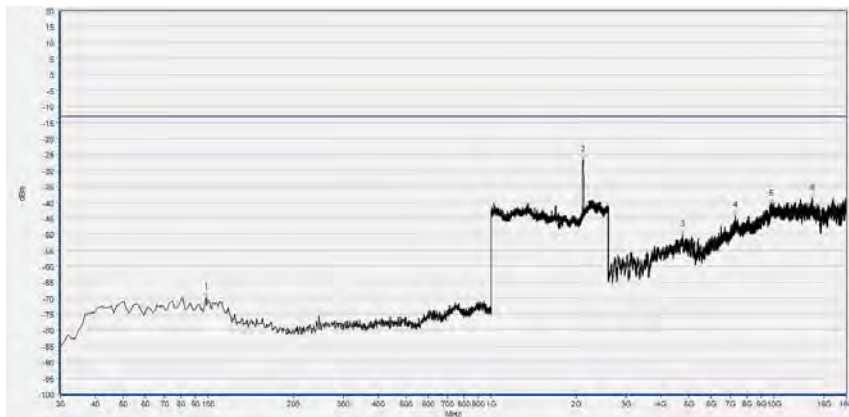


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	709.680	-66.96	-13.00	Vertical	N/A
2	738.809	-46.26	-13.00	Vertical	N/A
3	2283.094	-38.82	-13.00	Vertical	PASS
4	4660.862	-50.03	-13.00	Vertical	PASS
5	7314.603	-44.58	-13.00	Vertical	PASS
6	10291.178	-39.02	-13.00	Vertical	PASS

LTE Band 66, 20MHz BW, Low Channel, QPSK

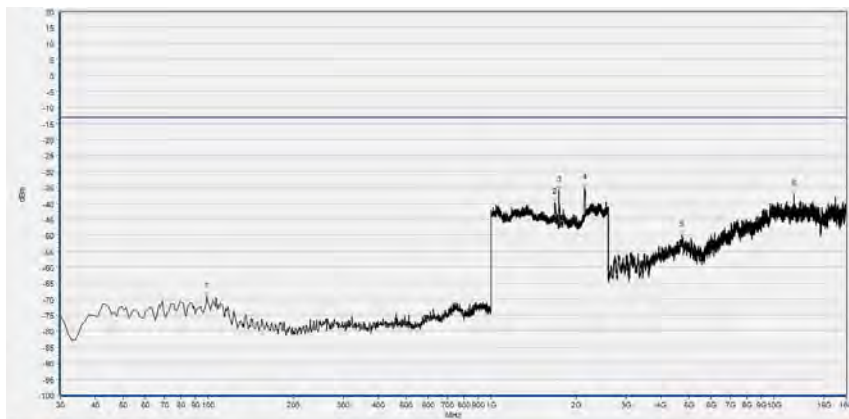


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	104.765	-68.63	-13.00	Horizontal	PASS
2	1693.947	-23.54	-13.00	Horizontal	N/A
3	1728.364	-36.55	-13.00	Horizontal	N/A
4	2127.764	-37.50	-13.00	Horizontal	PASS
5	5118.320	-49.32	-13.00	Horizontal	PASS
6	13582.030	-38.46	-13.00	Horizontal	PASS

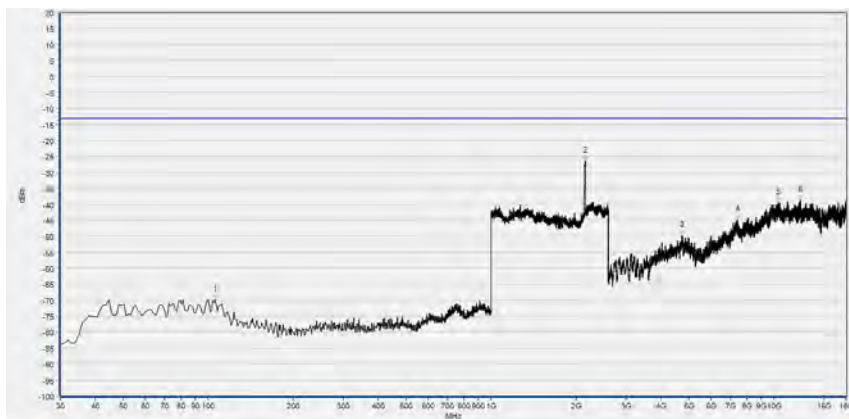


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	97.968	-69.87	-13.00	Vertical	PASS
2	2114.157	-26.76	-13.00	Vertical	N/A
3	4761.494	-50.21	-13.00	Vertical	PASS
4	7328.588	-44.15	-13.00	Vertical	PASS
5	9762.194	-40.55	-13.00	Vertical	PASS
6	13725.788	-38.81	-13.00	Vertical	PASS

LTE Band 66, 20MHz BW, Mid Channel, QPSK

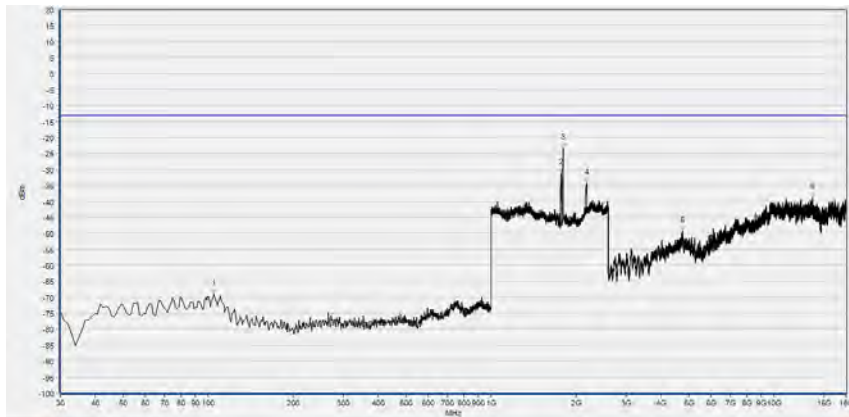


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	98.939	-69.24	-13.00	Horizontal	PASS
2	1682.741	-39.70	-13.00	Horizontal	N/A
3	1737.169	-35.91	-13.00	Horizontal	N/A
4	2146.173	-35.16	-13.00	Horizontal	PASS
5	4738.390	-49.93	-13.00	Horizontal	PASS
6	11756.826	-37.20	-13.00	Horizontal	PASS

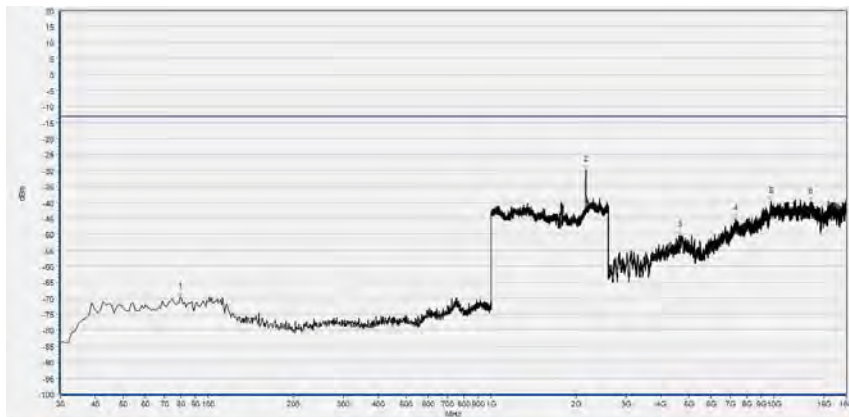


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.736	-69.79	-13.00	Vertical	PASS
2	2149.375	-26.55	-13.00	Vertical	N/A
3	4738.390	-49.83	-13.00	Vertical	PASS
4	7418.436	-44.89	-13.00	Vertical	PASS
5	10355.193	-39.41	-13.00	Vertical	PASS
6	12396.033	-38.84	-13.00	Vertical	PASS

LTE Band 66, 20MHz BW, High Channel, QPSK

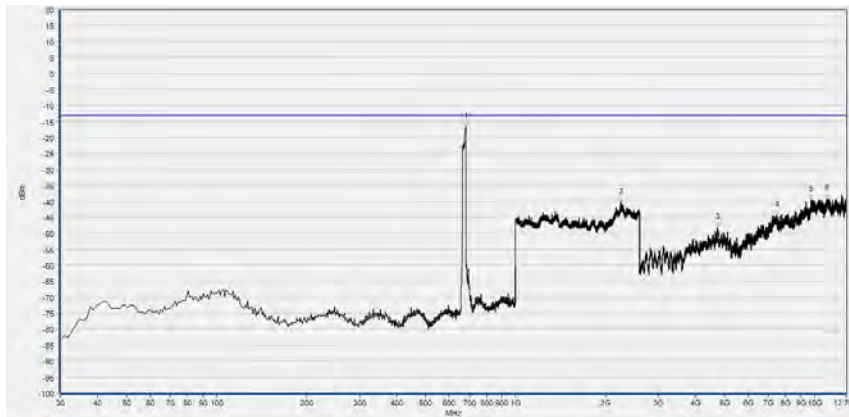


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	104.765	-68.90	-13.00	Horizontal	PASS
2	1766.783	-31.18	-13.00	Horizontal	N/A
3	1796.398	-23.43	-13.00	Horizontal	N/A
4	2174.187	-34.25	-13.00	Horizontal	PASS
5	4743.524	-49.30	-13.00	Horizontal	PASS
6	13679.580	-38.88	-13.00	Horizontal	PASS

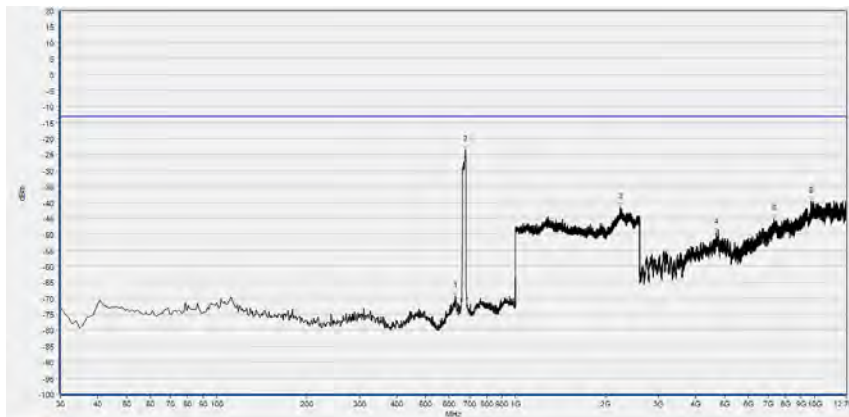


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	79.520	-69.52	-13.00	Vertical	PASS
2	2162.181	-29.79	-13.00	Vertical	N/A
3	4651.109	-50.29	-13.00	Vertical	PASS
4	7318.320	-45.32	-13.00	Vertical	PASS
5	9759.627	-39.71	-13.00	Vertical	PASS
6	13487.048	-39.86	-13.00	Vertical	PASS

LTE Band 71, 20MHz BW, Low Channel, QPSK

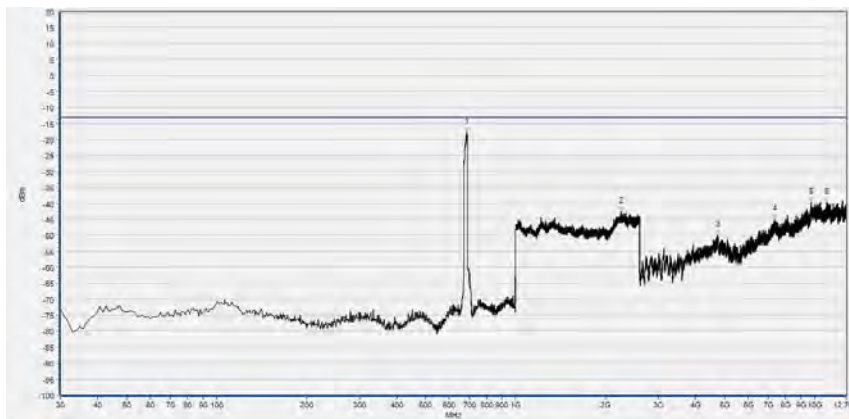


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	681.840	-16.74	-13.00	Horizontal	N/A
2	2259.384	-40.41	-13.00	Horizontal	PASS
3	4741.117	-48.11	-13.00	Horizontal	PASS
4	7476.578	-44.32	-13.00	Horizontal	PASS
5	9739.516	-39.38	-13.00	Horizontal	PASS
6	10989.116	-39.22	-13.00	Horizontal	PASS

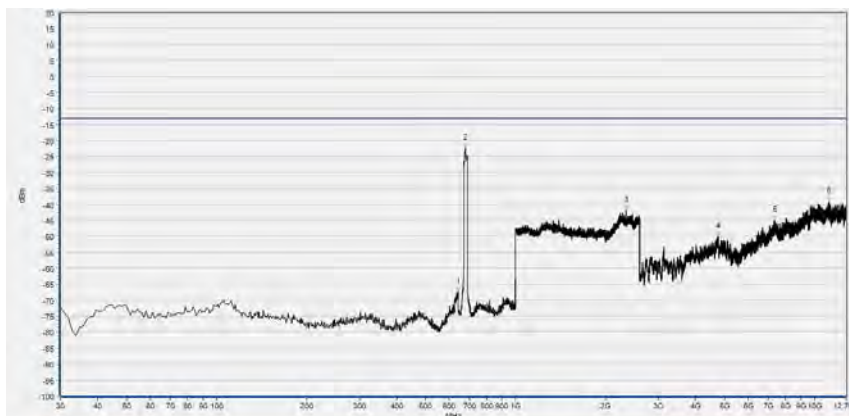


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	630.430	-69.31	-13.00	Vertical	N/A
2	680.870	-23.63	-13.00	Vertical	N/A
3	2240.816	-41.50	-13.00	Vertical	PASS
4	4674.668	-49.60	-13.00	Vertical	PASS
5	7297.536	-45.31	-13.00	Vertical	PASS
6	9754.283	-39.55	-13.00	Vertical	PASS

LTE Band 71, 20MHz BW, Mid Channel, QPSK

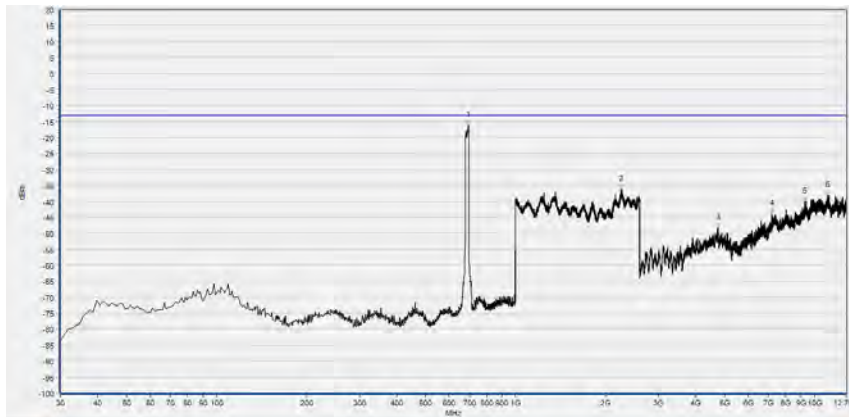


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	685.720	-17.84	-13.00	Horizontal	N/A
2	2257.463	-42.67	-13.00	Horizontal	PASS
3	4739.271	-49.86	-13.00	Horizontal	PASS
4	7352.910	-45.05	-13.00	Horizontal	PASS
5	9719.213	-39.75	-13.00	Horizontal	PASS
6	11005.728	-39.62	-13.00	Horizontal	PASS

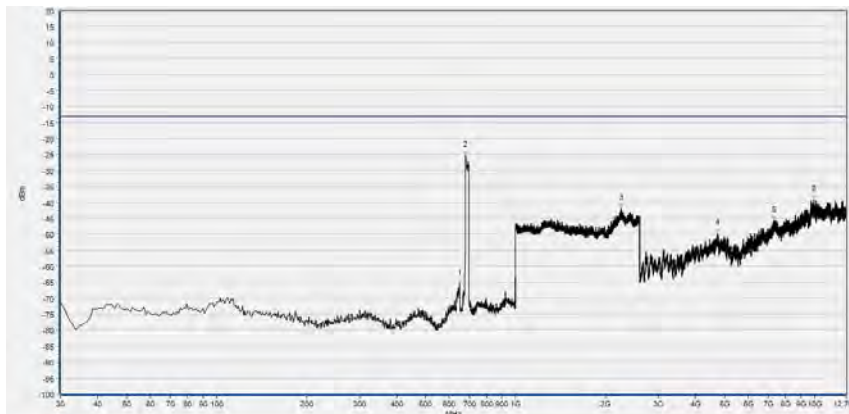


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	643.040	-67.26	-13.00	Vertical	N/A
2	679.900	-22.35	-13.00	Vertical	N/A
3	2336.214	-41.93	-13.00	Vertical	PASS
4	4755.883	-50.23	-13.00	Vertical	PASS
5	7369.522	-45.10	-13.00	Vertical	PASS
6	11201.382	-39.11	-13.00	Vertical	PASS

LTE Band 71, 20MHz BW, High Channel, QPSK



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	695.420	-16.21	-13.00	Horizontal	N/A
2	2258.743	-36.25	-13.00	Horizontal	PASS
3	4750.346	-48.35	-13.00	Horizontal	PASS
4	7184.943	-43.87	-13.00	Horizontal	PASS
5	9270.686	-40.04	-13.00	Horizontal	PASS
6	11020.495	-38.17	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	649.830	-65.44	-13.00	Vertical	N/A
2	679.900	-25.36	-13.00	Vertical	N/A
3	2256.182	-41.87	-13.00	Vertical	PASS
4	4744.808	-49.78	-13.00	Vertical	PASS
5	7308.611	-45.70	-13.00	Vertical	PASS
6	9929.633	-39.12	-13.00	Vertical	PASS



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



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4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2024.06.19	2025.06.18
Communication Test Station	6200995016	MT8820C	Anritsu	2024.09.11	2025.09.10
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2024.09.11	2025.09.10

4.2 List of Software Used

Description	Manufacturer	Software Version
MOR-2023E Test System	MORLAB	V7.99
MORLAB EMCR	MORLAB	V1.2



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4.3 Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2023.10.17	2024.10.16
Receiver	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KK F-2	Qualwave	2024.07.03	2025.07.02
Preamplifier (10MHz-6GHz)	46732	S10M100L380 2	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L320 3	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-4 0C-S	Decentest	2024.05.30	2025.05.29
Notch Filter	N/A	WRCGV -LTE B2	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B4	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B5	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B12	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B17	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B66	Wainwright	N/A	N/A



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Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09
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