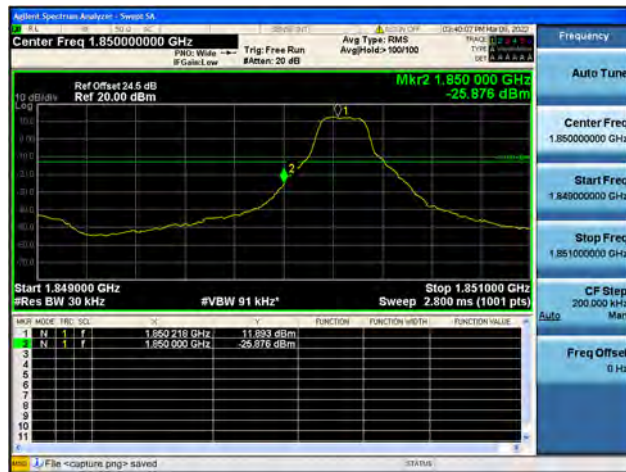




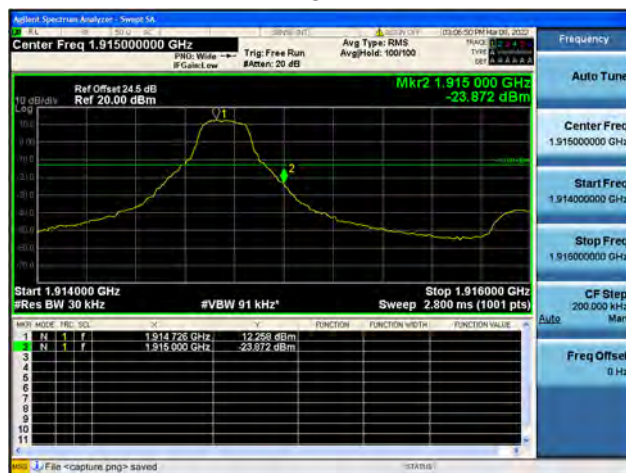
Band25 / 3MHz / Low CH / QPSK / 1 RB



Band25 / 3MHz / Low CH / QPSK / FULL RB



Band25 / 3MHz / High CH / QPSK / 1 RB



Band25 / 3MHz / High CH / QPSK / FULL RB

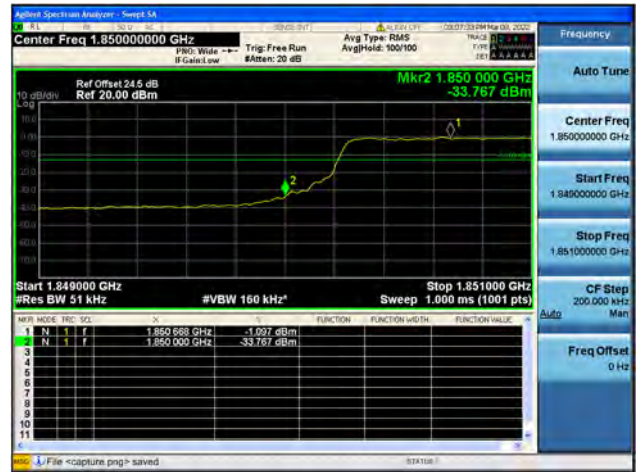




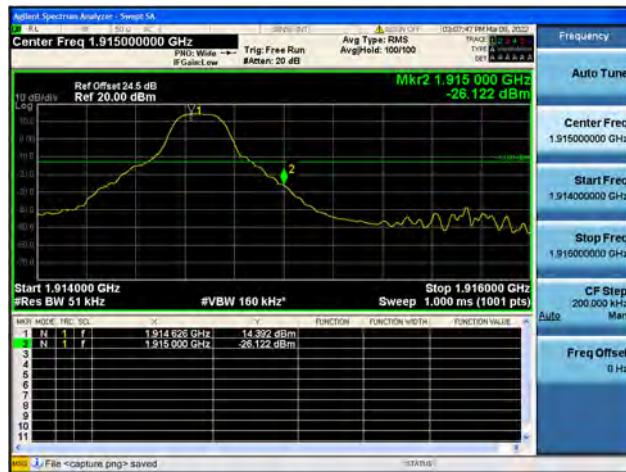
Band25 / 5MHz / Low CH / QPSK / 1 RB



Band25 / 5MHz / Low CH / QPSK / FULL RB



Band25 / 5MHz / High CH / QPSK / 1 RB



Band25 / 5MHz / High CH / QPSK / FULL RB







Band25 / 15MHz / Low CH / QPSK / 1 RB



Band25 / 15MHz / Low CH / QPSK / FULL RB



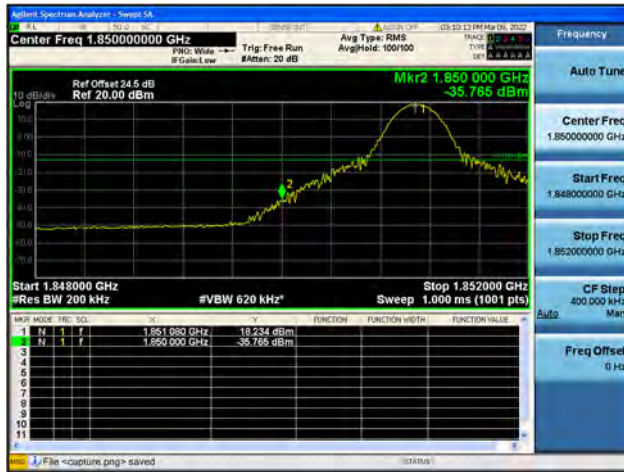
Band25 / 15MHz / High CH / QPSK / 1 RB



Band25 / 15MHz / High CH / QPSK / FULL RB



Band25 / 20MHz / Low CH / QPSK / 1 RB



Band25 / 20MHz / Low CH / QPSK / FULL RB



Band25 / 20MHz / High CH / QPSK / 1 RB



Band25 / 20MHz / High CH / QPSK / FULL RB





Band26 / 1.4MHz / Low CH / QPSK / 1 RB



Band26 / 1.4MHz / Low CH / QPSK / FULL RB



Band26 / 1.4MHz / High CH / QPSK / 1 RB

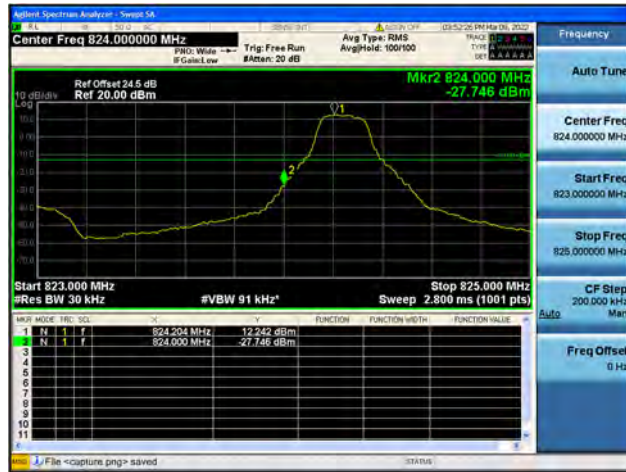


Band26 / 1.4MHz / High CH / QPSK / FULL RB





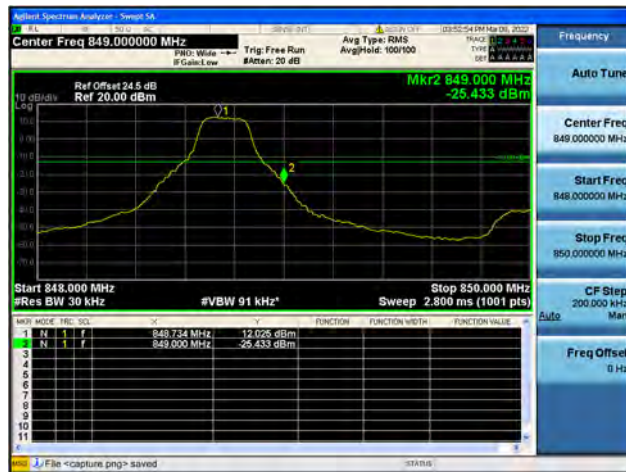
Band26 / 3MHz / Low CH / QPSK / 1 RB



Band26 / 3MHz / Low CH / QPSK / FULL RB



Band26 / 3MHz / High CH / QPSK / 1 RB



Band26 / 3MHz / High CH / QPSK / FULL RB

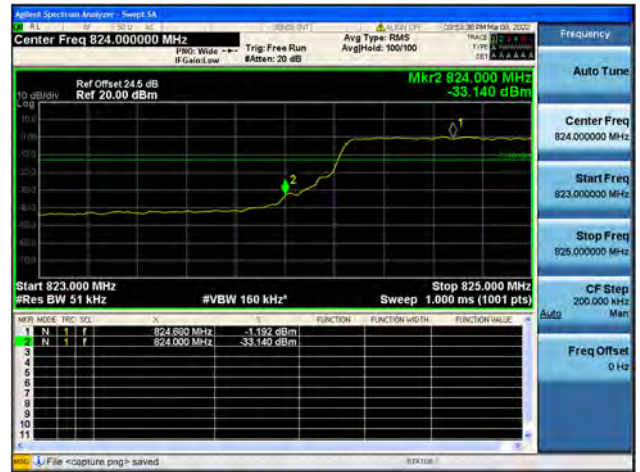




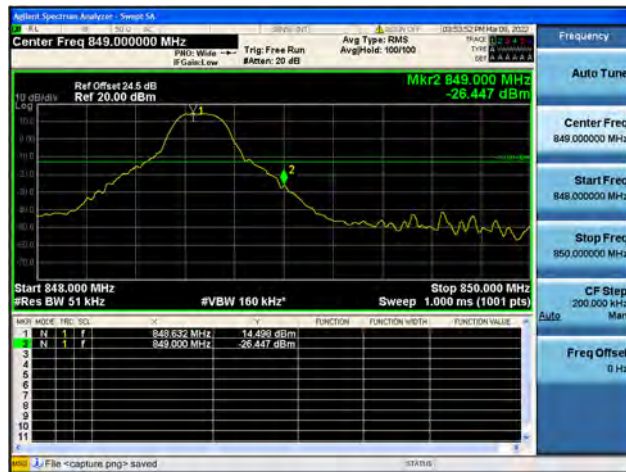
Band26 / 5MHz / Low CH / QPSK / 1 RB



Band26 / 5MHz / Low CH / QPSK / FULL RB



Band26 / 5MHz / High CH / QPSK / 1 RB



Band26 / 5MHz / High CH / QPSK / FULL RB





Band26 / 10MHz / Low CH / QPSK / 1 RB



Band26 / 10MHz / Low CH / QPSK / FULL RB



Band26 / 10MHz / High CH / QPSK / 1 RB



Band26 / 10MHz / High CH / QPSK / FULL RB





Band26 / 15MHz / Low CH / QPSK / 1 RB



Band26 / 15MHz / Low CH / QPSK / FULL RB



Band26 / 15MHz / High CH / QPSK / 1 RB

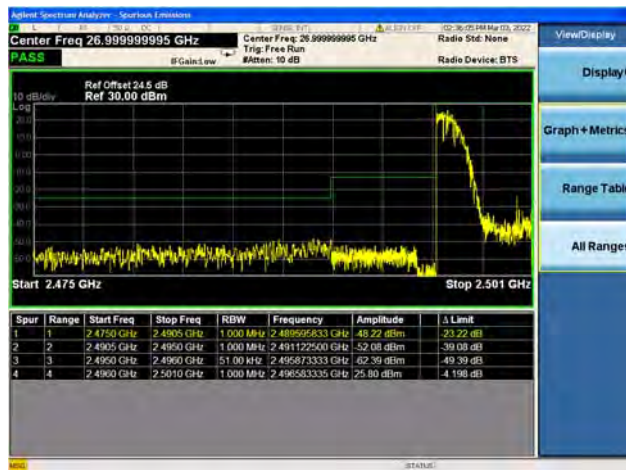


Band26 / 15MHz / High CH / QPSK / FULL RB

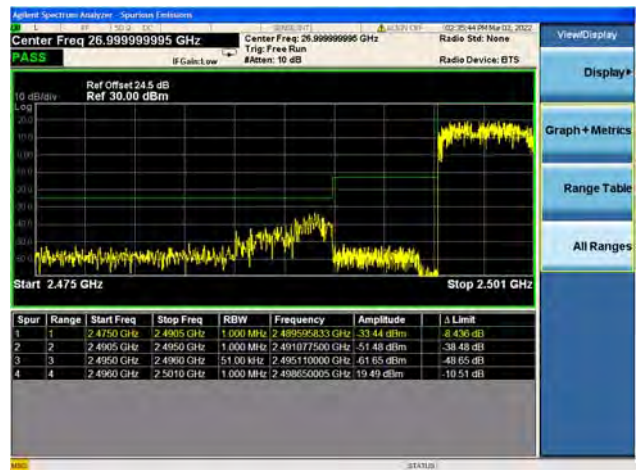




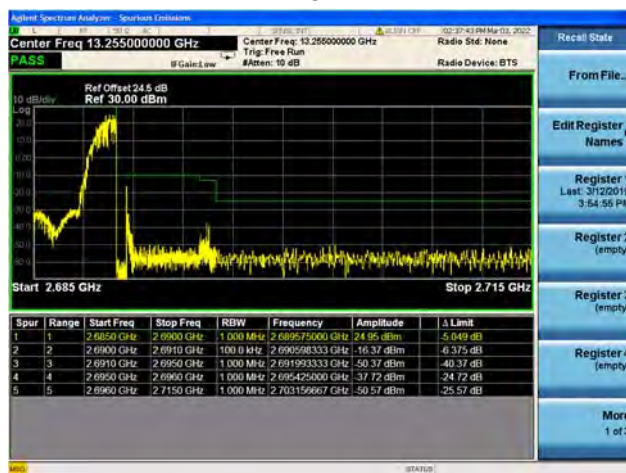
Band41 / 5MHz / Low CH / QPSK / 1 RB



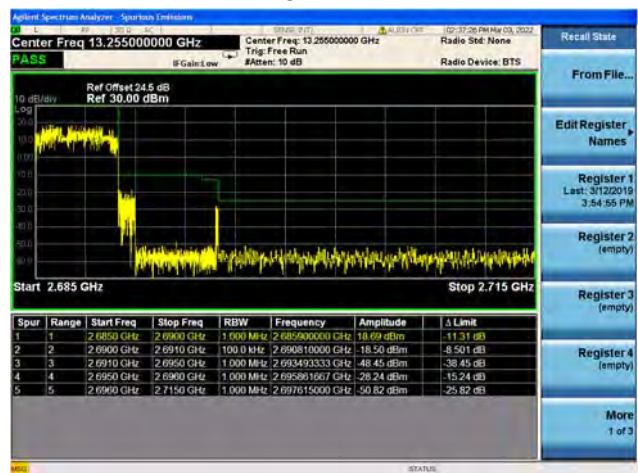
Band41 / 5MHz / Low CH / QPSK / FULL RB



Band41 / 5MHz / High CH / QPSK / 1 RB

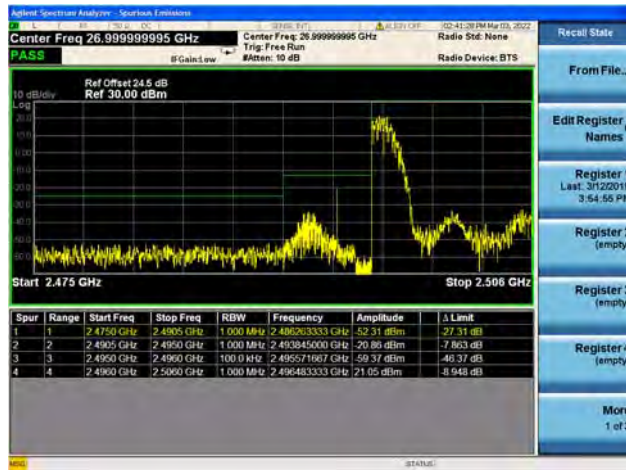


Band41 / 5MHz / High CH / QPSK / FULL RB





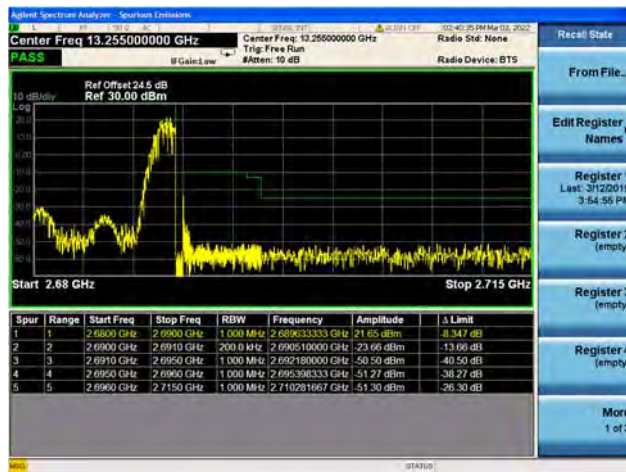
Band41 / 10MHz / Low CH / QPSK / 1 RB



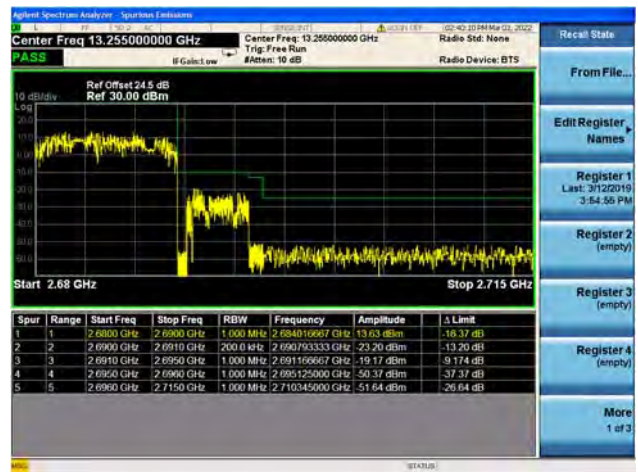
Band41 / 10MHz / Low CH / QPSK / FULL RB



Band41 / 10MHz / High CH / QPSK / 1 RB

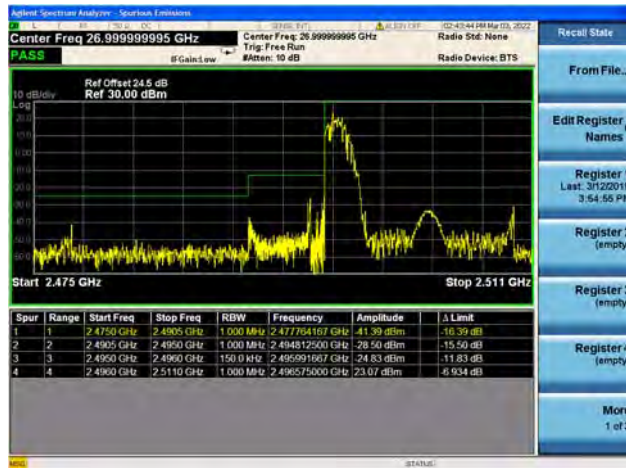


Band41 / 10MHz / High CH / QPSK / FULL RB

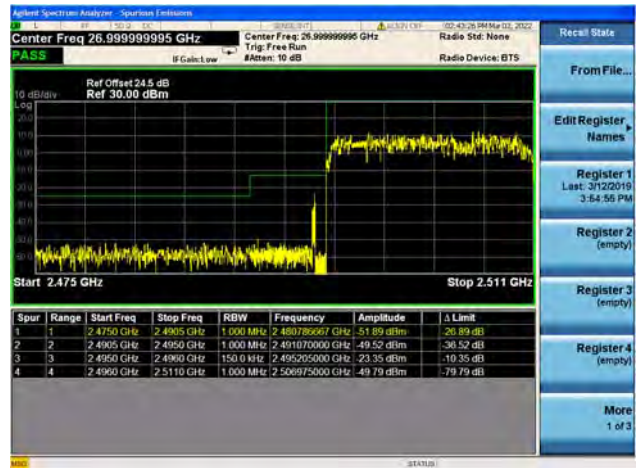




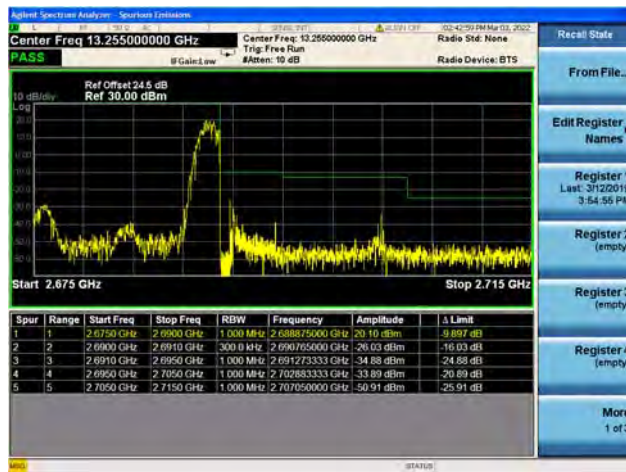
Band41 / 15MHz / Low CH / QPSK / 1 RB



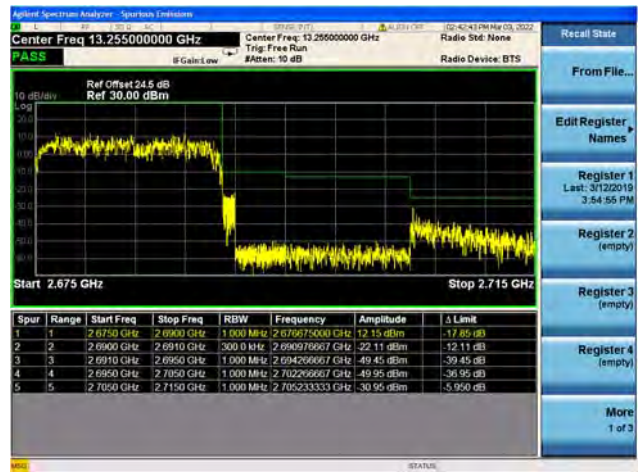
Band41 / 15MHz / Low CH / QPSK / FULL RB



Band41 / 15MHz / High CH / QPSK / 1 RB

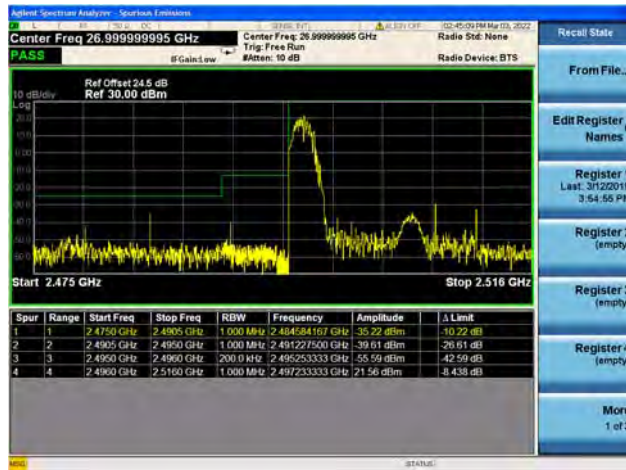


Band41 / 15MHz / High CH / QPSK / FULL RB





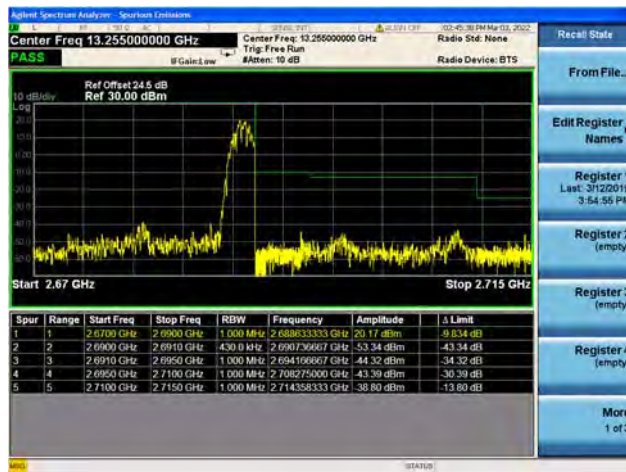
Band41 / 20MHz / Low CH / QPSK / 1 RB



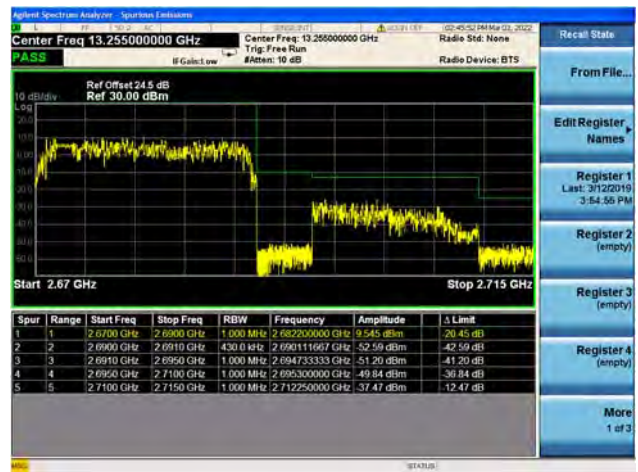
Band41 / 20MHz / Low CH / QPSK / FULL RB



Band41 / 20MHz / High CH / QPSK / 1 RB



Band41 / 20MHz / 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

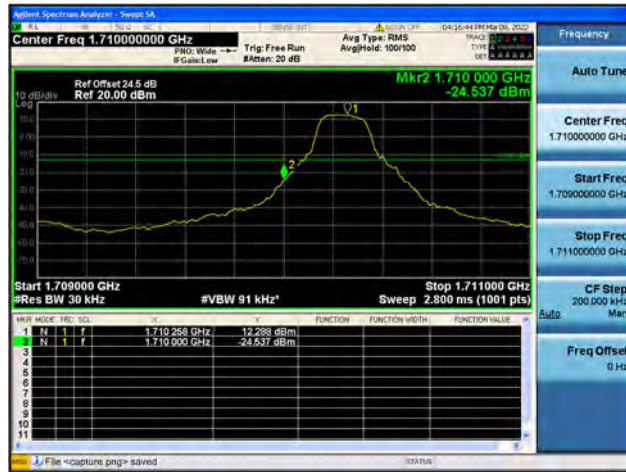


Band66 / 1.4MHz / High CH / QPSK / FULL RB





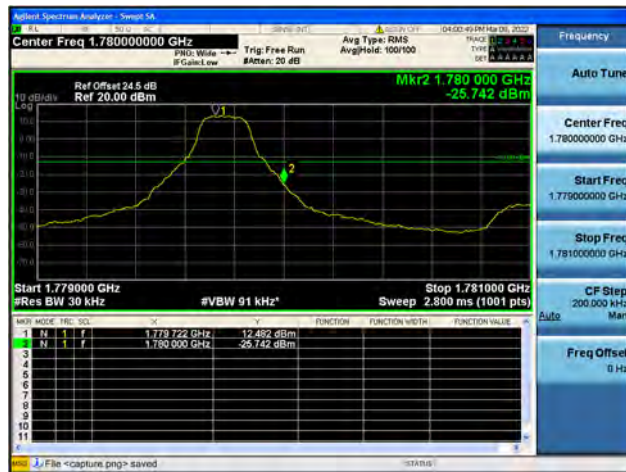
Band66 / 3MHz / Low CH / QPSK / 1 RB



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

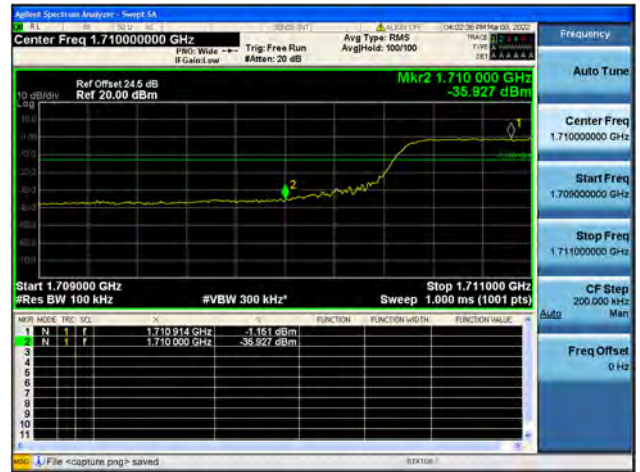




Band66 / 10MHz / Low CH / QPSK / 1 RB



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

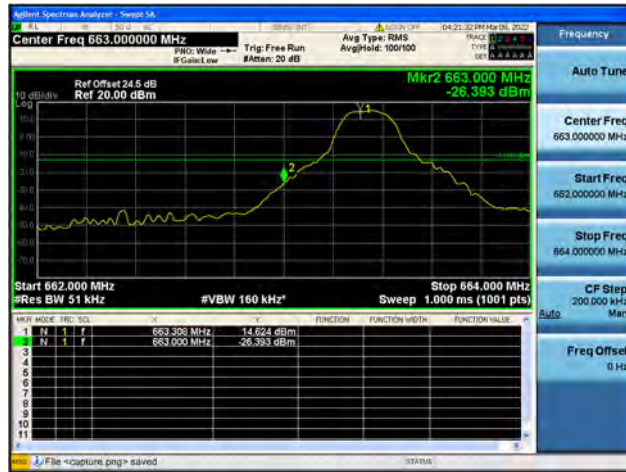


Band66 / 20MHz / High CH / QPSK / FULL RB





Band71 / 5MHz / Low CH / QPSK / 1 RB



Band71 / 5MHz / Low CH / QPSK / FULL RB



Band71 / 5MHz / High CH / QPSK / 1 RB



Band71 / 5MHz / High CH / QPSK / FULL RB





Band71 / 10MHz / Low CH / QPSK / 1 RB



Band71 / 10MHz / Low CH / QPSK / FULL RB



Band71 / 10MHz / High CH / QPSK / 1 RB



Band71 / 10MHz / High CH / QPSK / FULL RB

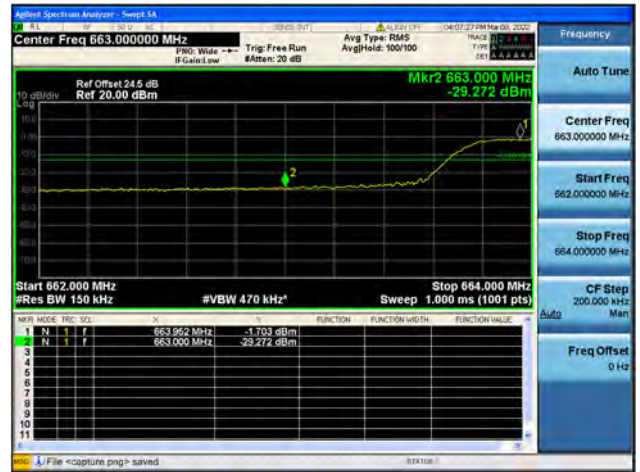




Band71 / 15MHz / Low CH / QPSK / 1 RB



Band71 / 15MHz / Low CH / QPSK / FULL RB



Band71 / 15MHz / High CH / QPSK / 1 RB



Band71 / 15MHz / High CH / QPSK / FULL RB



Band71 / 20MHz / Low CH / QPSK / 1 RB



Band71 / 20MHz / Low CH / QPSK / FULL RB



Band71 / 20MHz / High CH / QPSK / 1 RB



Band71 / 20MHz / High CH / QPSK / FULL RB

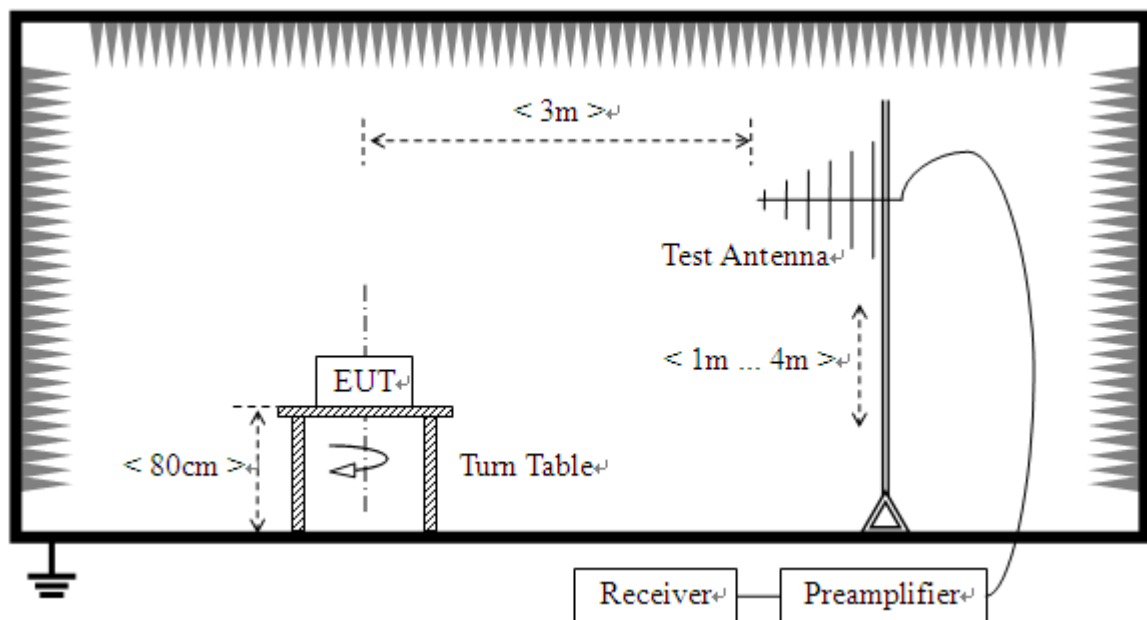


2.7. Radiated Spurious Emissions

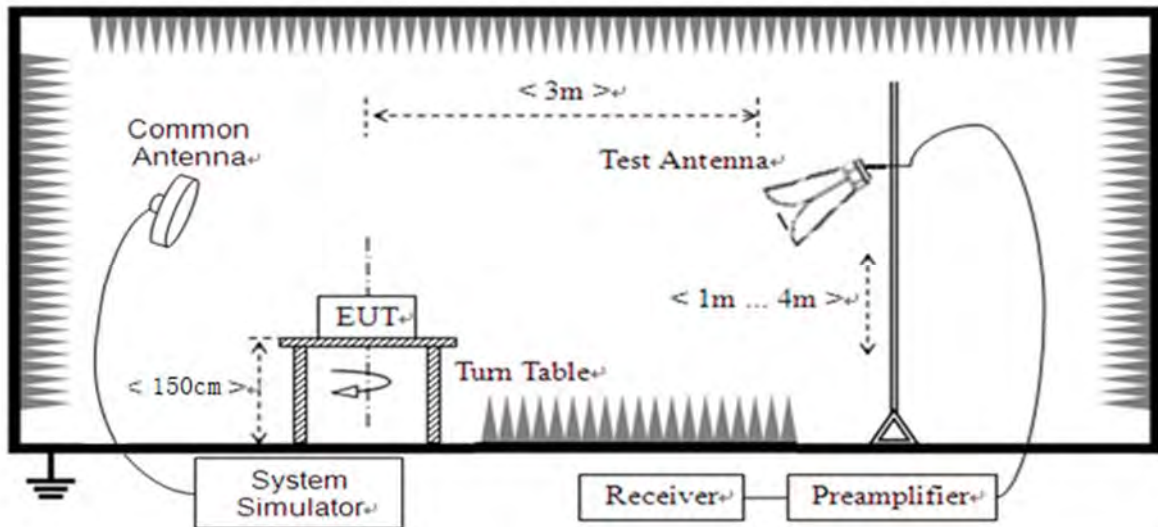
2.7.1. Requirement

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)



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 (exclude 1559-1610 MHz) 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.

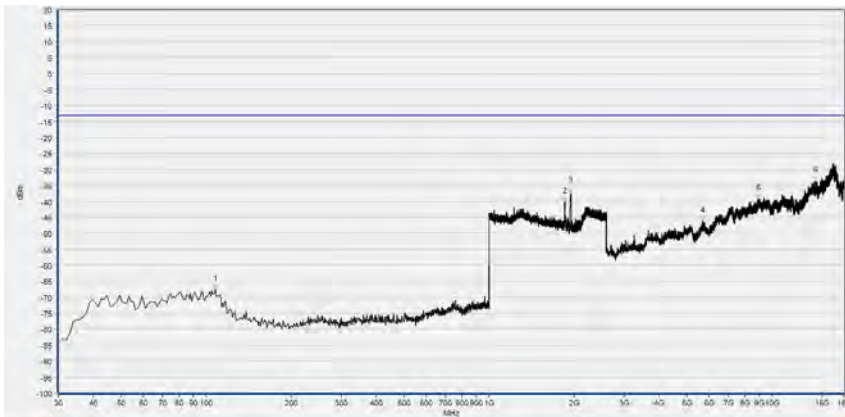
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

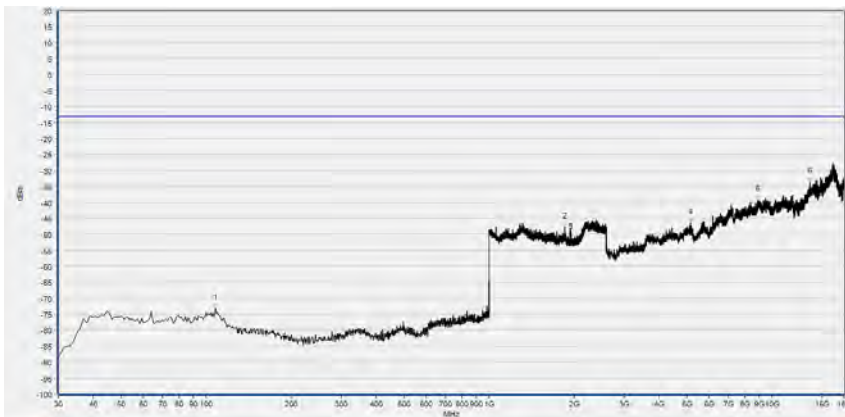
Note4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

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

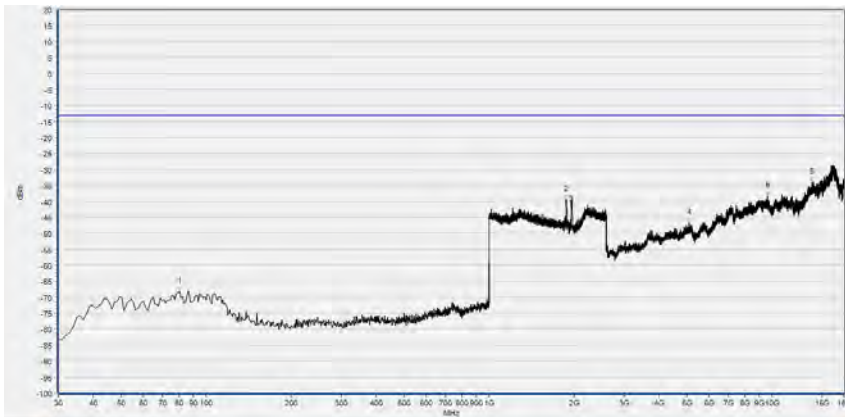


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-67.60	-13.00	Horizontal	PASS
2	1853.461	-40.13	-13.00	Horizontal	N/A
3	1946.299	-37.59	-13.00	Horizontal	N/A
4	5677.760	-46.23	-13.00	Horizontal	PASS
5	8962.757	-39.18	-13.00	Horizontal	PASS
6	14258.520	-33.66	-13.00	Horizontal	PASS

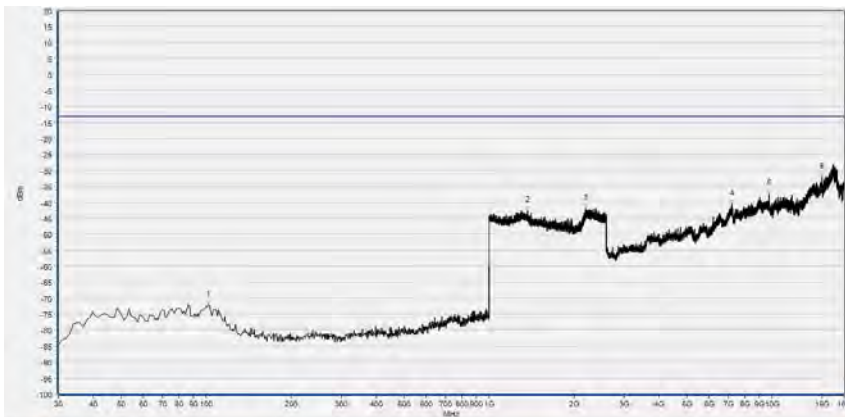


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-73.26	-13.00	Vertical	PASS
2	1852.181	-47.64	-13.00	Vertical	N/A
3	1939.896	-48.11	-13.00	Vertical	N/A
4	5156.865	-46.28	-13.00	Vertical	PASS
5	8917.949	-39.12	-13.00	Vertical	PASS
6	13608.802	-33.61	-13.00	Vertical	PASS

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

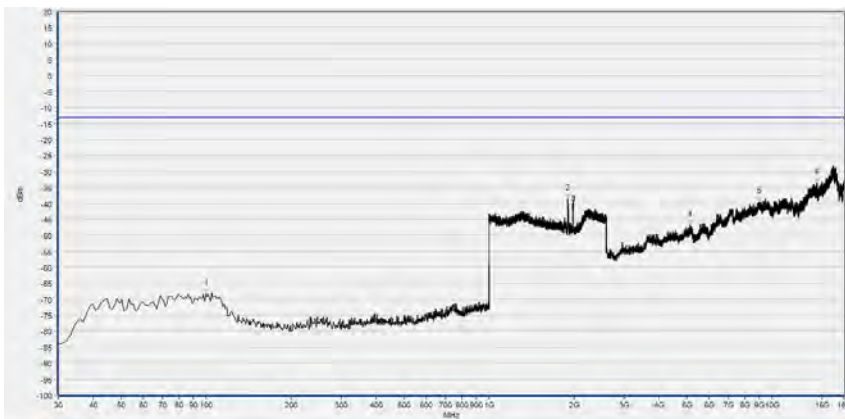


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	80.440	-68.32	-13.00	Horizontal	PASS
2	1872.029	-39.51	-13.00	Horizontal	N/A
3	1956.543	-39.38	-13.00	Horizontal	N/A
4	5109.256	-46.79	-13.00	Horizontal	PASS
5	9662.884	-38.36	-13.00	Horizontal	PASS
6	13844.044	-34.11	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.780	-72.16	-13.00	Vertical	PASS
2	1369.428	-42.49	-13.00	Vertical	PASS
3	2195.998	-41.97	-13.00	Vertical	PASS
4	7215.239	-40.45	-13.00	Vertical	PASS
5	9777.705	-37.29	-13.00	Vertical	PASS
6	14997.854	-31.97	-13.00	Vertical	PASS

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

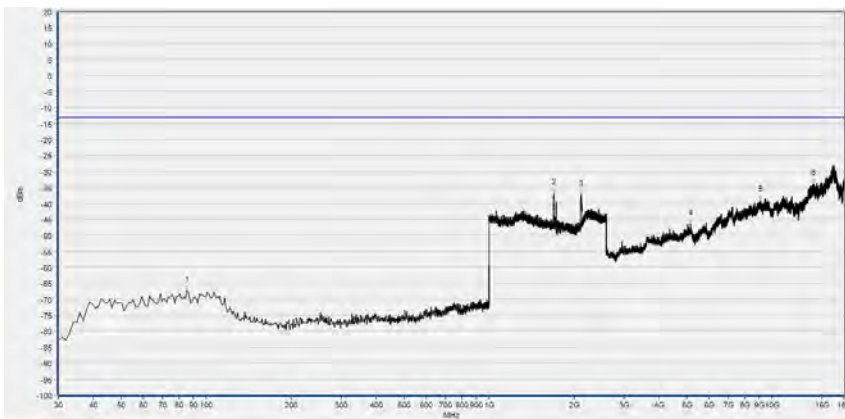


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	99.840	-68.21	-13.00	Horizontal	PASS
2	1900.200	-38.65	-13.00	Horizontal	N/A
3	1985.354	-38.85	-13.00	Horizontal	N/A
4	5112.057	-46.79	-13.00	Horizontal	PASS
5	9001.964	-39.48	-13.00	Horizontal	PASS
6	14426.550	-33.69	-13.00	Horizontal	PASS

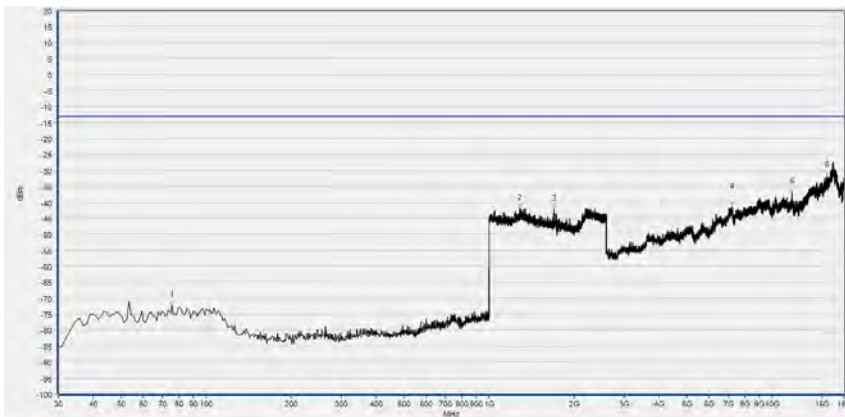


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	109.540	-73.46	-13.00	Vertical	PASS
2	1279.792	-46.92	-13.00	Vertical	PASS
3	1898.920	-44.69	-13.00	Vertical	N/A
4	6951.991	-41.73	-13.00	Vertical	PASS
5	10962.320	-37.41	-13.00	Vertical	PASS
6	14012.075	-32.57	-13.00	Vertical	PASS

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

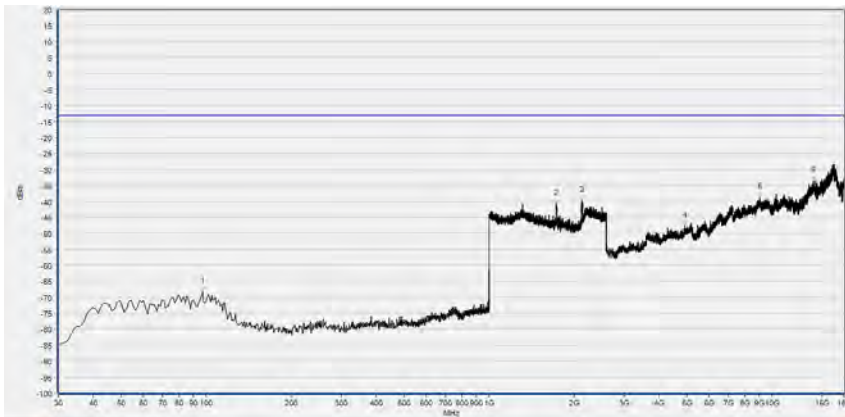


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	85.290	-67.14	-13.00	Horizontal	PASS
2	1693.397	-36.80	-13.00	Horizontal	N/A
3	2114.046	-37.28	-13.00	Horizontal	N/A
4	5151.264	-46.47	-13.00	Horizontal	PASS
5	9141.989	-39.05	-13.00	Horizontal	PASS
6	13992.471	-33.95	-13.00	Horizontal	PASS

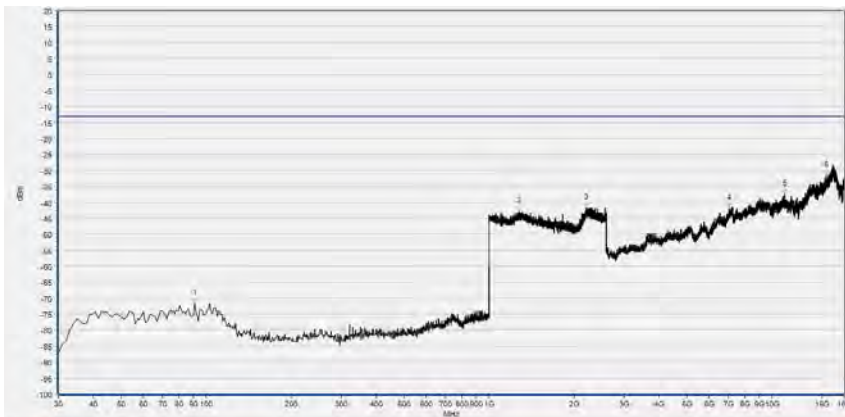


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	75.590	-72.38	-13.00	Vertical	PASS
2	1282.353	-41.81	-13.00	Vertical	PASS
3	1693.397	-42.03	-13.00	Vertical	PASS
4	7234.843	-41.30	-13.00	Vertical	PASS
5	11752.064	-36.75	-13.00	Vertical	PASS
6	15675.577	-31.57	-13.00	Vertical	PASS

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

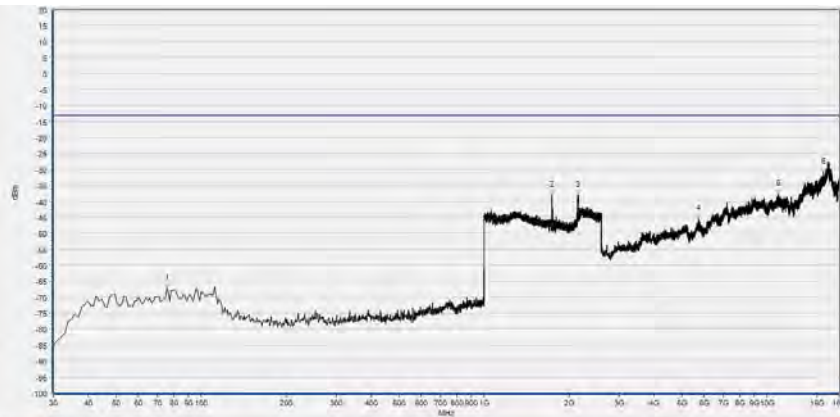


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	96.930	-68.30	-13.00	Horizontal	PASS
2	1727.971	-40.81	-13.00	Horizontal	N/A
3	2124.290	-39.56	-13.00	Horizontal	N/A
4	4910.420	-47.72	-13.00	Horizontal	PASS
5	9046.772	-38.74	-13.00	Horizontal	PASS
6	14000.873	-33.71	-13.00	Horizontal	PASS

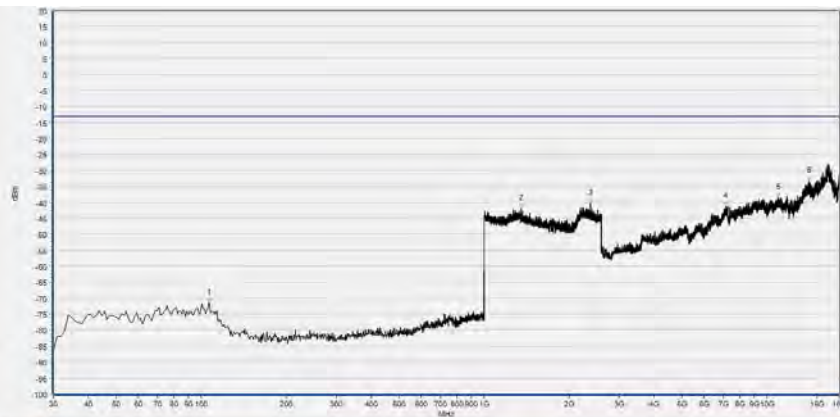


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	91.110	-71.61	-13.00	Vertical	PASS
2	1280.432	-42.74	-13.00	Vertical	PASS
3	2210.084	-41.67	-13.00	Vertical	PASS
4	7069.613	-41.81	-13.00	Vertical	PASS
5	11119.149	-37.50	-13.00	Vertical	PASS
6	15599.964	-31.64	-13.00	Vertical	PASS

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

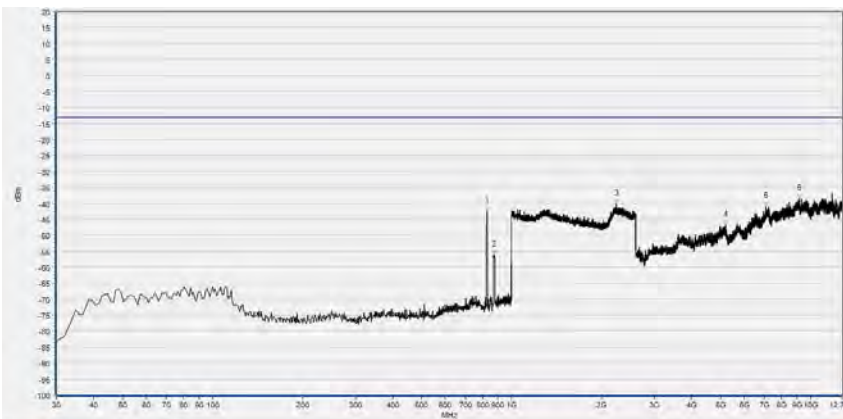


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	75.590	-67.22	-13.00	Horizontal	PASS
2	1736.935	-38.03	-13.00	Horizontal	N/A
3	2147.979	-38.03	-13.00	Horizontal	N/A
4	5722.568	-45.42	-13.00	Horizontal	PASS
5	10962.320	-37.74	-13.00	Horizontal	PASS
6	15874.414	-30.88	-13.00	Horizontal	PASS

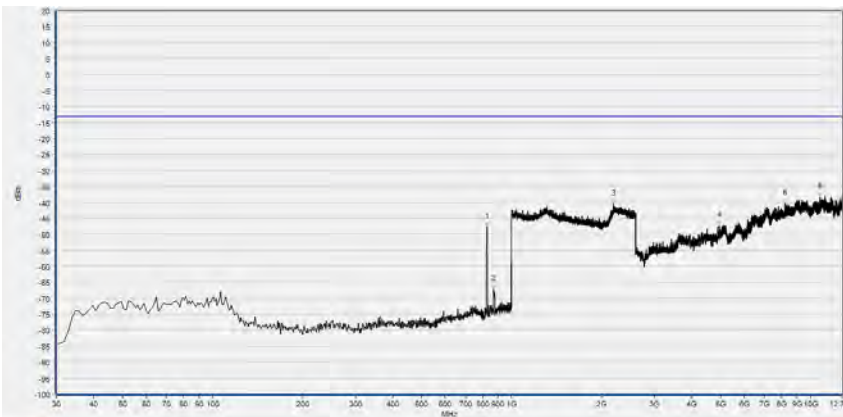


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-71.44	-13.00	Vertical	PASS
2	1354.062	-41.84	-13.00	Vertical	PASS
3	2379.752	-40.39	-13.00	Vertical	PASS
4	7156.428	-41.17	-13.00	Vertical	PASS
5	10965.121	-38.45	-13.00	Vertical	PASS
6	14126.896	-33.49	-13.00	Vertical	PASS

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

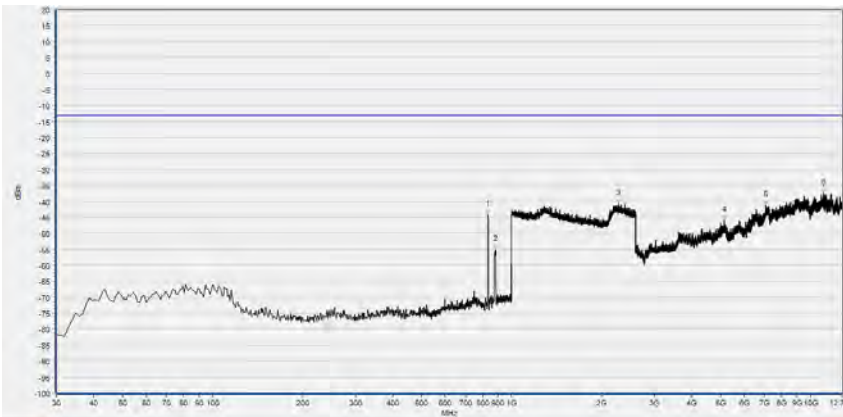


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.340	-42.62	-13.00	Horizontal	N/A
2	876.810	-56.15	-13.00	Horizontal	N/A
3	2240.176	-40.03	-13.00	Horizontal	PASS
4	5187.798	-46.82	-13.00	Horizontal	PASS
5	7094.499	-40.93	-13.00	Horizontal	PASS
6	9141.480	-38.57	-13.00	Horizontal	PASS

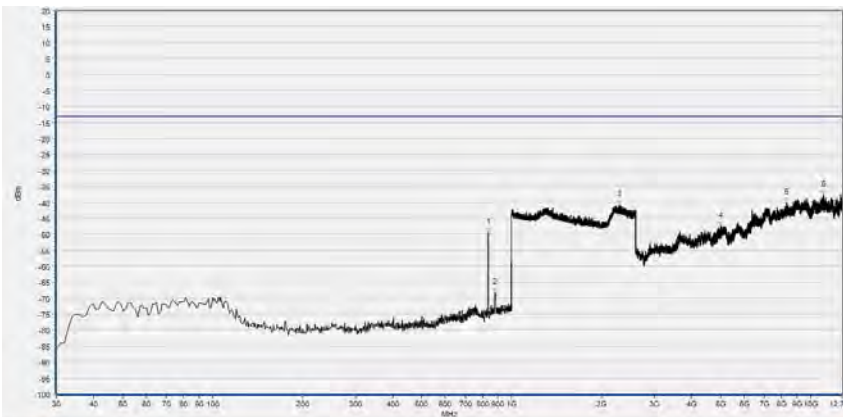


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	828.310	-47.71	-13.00	Vertical	N/A
2	870.020	-67.12	-13.00	Vertical	N/A
3	2195.998	-40.54	-13.00	Vertical	PASS
4	4962.611	-47.29	-13.00	Vertical	PASS
5	8211.202	-40.31	-13.00	Vertical	PASS
6	10763.930	-38.34	-13.00	Vertical	PASS

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

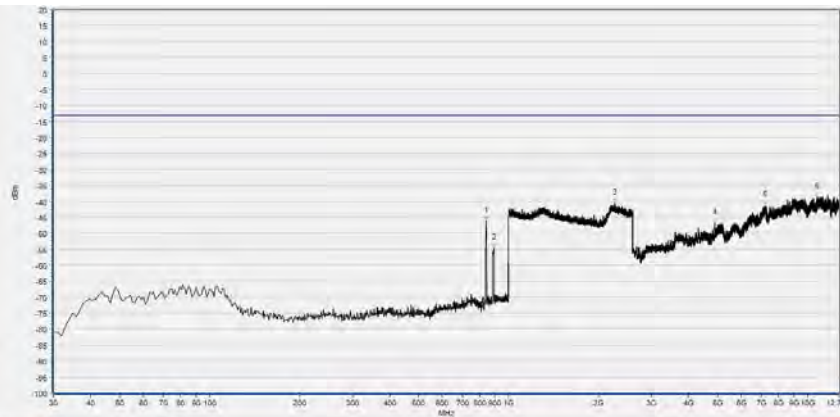


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	834.130	-44.22	-13.00	Horizontal	N/A
2	882.630	-55.17	-13.00	Horizontal	N/A
3	2279.872	-40.70	-13.00	Horizontal	PASS
4	5152.728	-45.92	-13.00	Horizontal	PASS
5	7070.504	-41.28	-13.00	Horizontal	PASS
6	11051.873	-37.53	-13.00	Horizontal	PASS

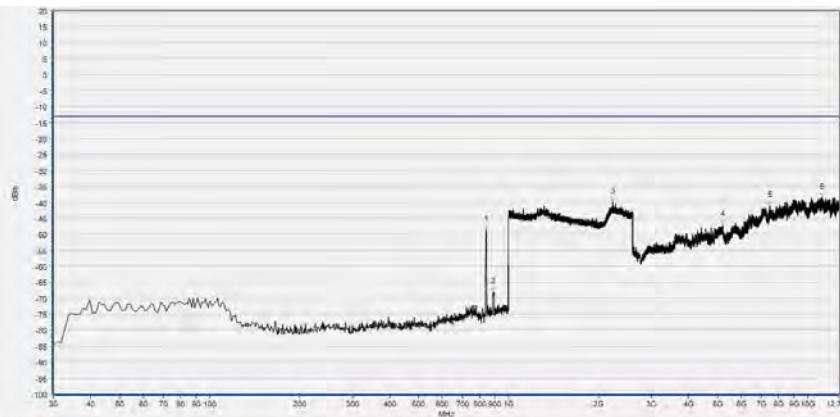


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	835.100	-49.45	-13.00	Vertical	N/A
2	881.660	-68.36	-13.00	Vertical	N/A
3	2287.555	-40.87	-13.00	Vertical	PASS
4	4997.681	-47.51	-13.00	Vertical	PASS
5	8301.646	-40.13	-13.00	Vertical	PASS
6	11033.415	-37.65	-13.00	Vertical	PASS

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

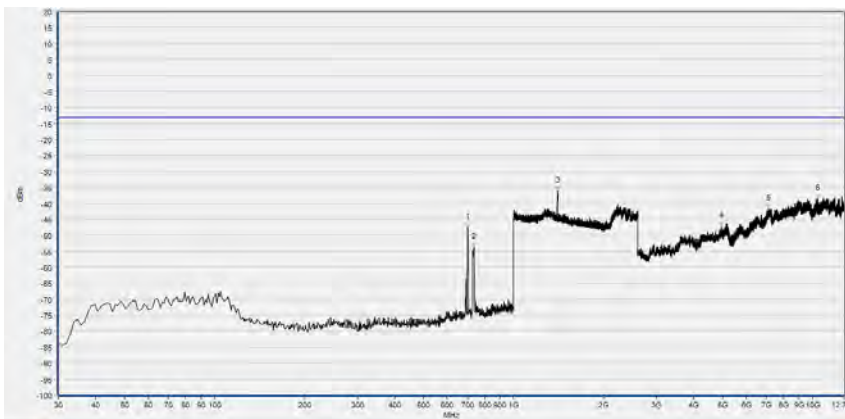


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	842.860	-46.06	-13.00	Horizontal	N/A
2	892.330	-54.72	-13.00	Horizontal	N/A
3	2269.628	-40.51	-13.00	Horizontal	PASS
4	4905.392	-46.81	-13.00	Horizontal	PASS
5	7181.251	-41.32	-13.00	Horizontal	PASS
6	10754.701	-38.83	-13.00	Horizontal	PASS

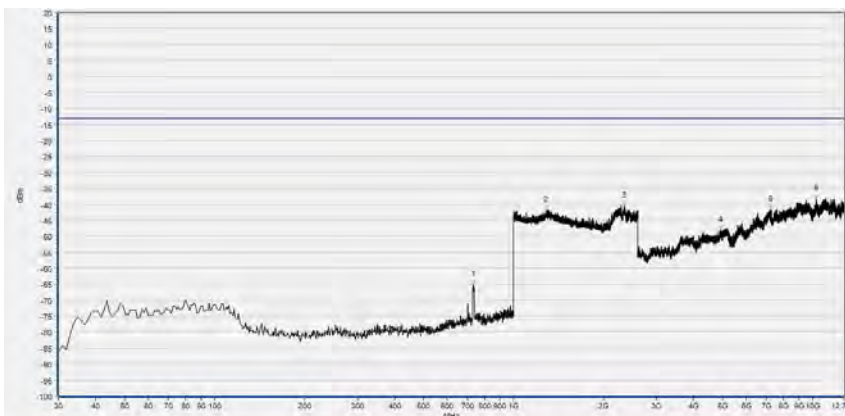


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	843.830	-48.53	-13.00	Vertical	N/A
2	891.360	-68.06	-13.00	Vertical	N/A
3	2232.493	-39.97	-13.00	Vertical	PASS
4	5195.181	-46.96	-13.00	Vertical	PASS
5	7469.194	-41.04	-13.00	Vertical	PASS
6	11147.854	-38.45	-13.00	Vertical	PASS

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

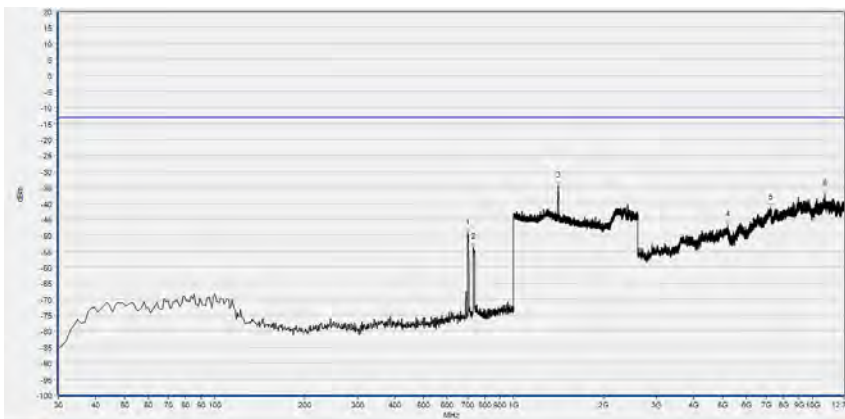


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	701.912	-47.56	-13.00	Horizontal	N/A
2	737.838	-53.83	-13.00	Horizontal	N/A
3	1403.334	-36.06	-13.00	Horizontal	PASS
4	4955.271	-47.29	-13.00	Horizontal	PASS
5	7101.410	-41.72	-13.00	Horizontal	PASS
6	10427.215	-38.53	-13.00	Horizontal	PASS

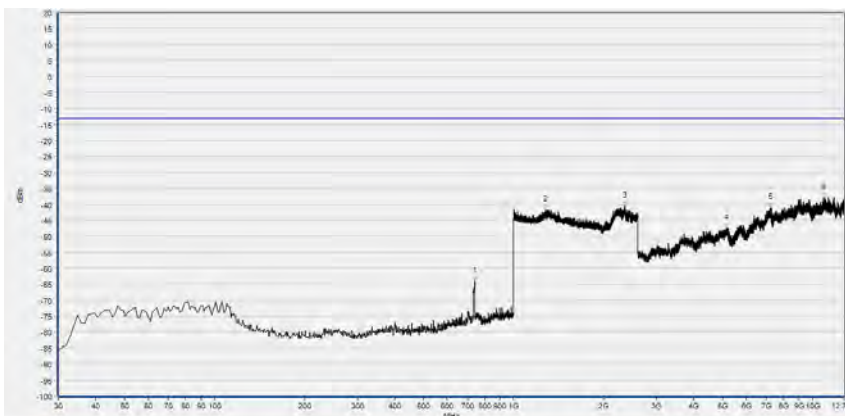


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	734.925	-65.15	-13.00	Vertical	N/A
2	1287.029	-41.81	-13.00	Vertical	PASS
3	2347.649	-40.46	-13.00	Vertical	PASS
4	4922.785	-48.05	-13.00	Vertical	PASS
5	7227.295	-41.64	-13.00	Vertical	PASS
6	10281.026	-38.32	-13.00	Vertical	PASS

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

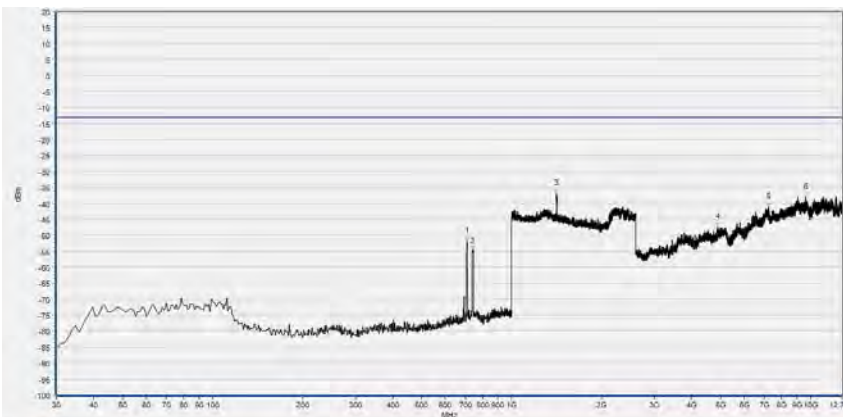


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	702.883	-49.18	-13.00	Horizontal	N/A
2	732.983	-53.79	-13.00	Horizontal	N/A
3	1410.270	-34.57	-13.00	Horizontal	PASS
4	5200.950	-46.81	-13.00	Horizontal	PASS
5	7233.387	-41.53	-13.00	Horizontal	PASS
6	10985.577	-37.19	-13.00	Horizontal	PASS

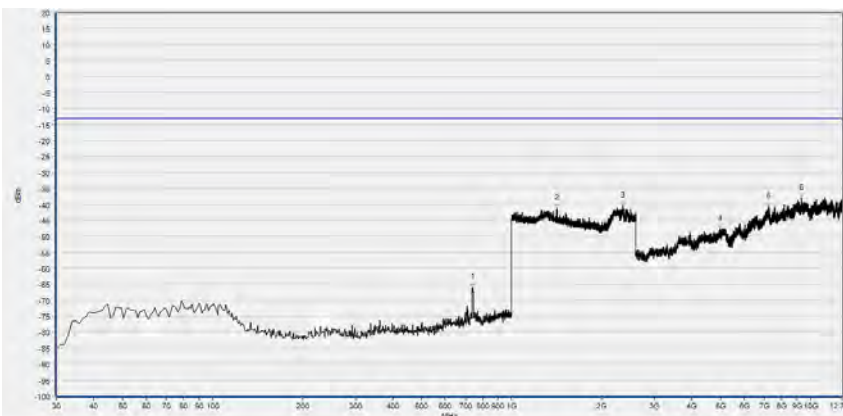


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	741.722	-64.03	-13.00	Vertical	N/A
2	1277.959	-41.59	-13.00	Vertical	PASS
3	2358.853	-40.45	-13.00	Vertical	PASS
4	5150.190	-47.55	-13.00	Vertical	PASS
5	7239.478	-40.95	-13.00	Vertical	PASS
6	10877.966	-37.98	-13.00	Vertical	PASS

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



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	708.709	-51.89	-13.00	Horizontal	N/A
2	739.780	-54.67	-13.00	Horizontal	N/A
3	1413.471	-36.93	-13.00	Horizontal	PASS
4	4888.268	-47.39	-13.00	Horizontal	PASS
5	7241.508	-41.33	-13.00	Horizontal	PASS
6	9606.931	-38.16	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	741.722	-65.97	-13.00	Vertical	N/A
2	1417.206	-41.24	-13.00	Vertical	PASS
3	2360.453	-40.67	-13.00	Vertical	PASS
4	4967.453	-47.78	-13.00	Vertical	PASS
5	7245.569	-40.83	-13.00	Vertical	PASS
6	9320.644	-38.16	-13.00	Vertical	PASS

LTE Band 25, 20MHz BW, Low Channel, QPSK

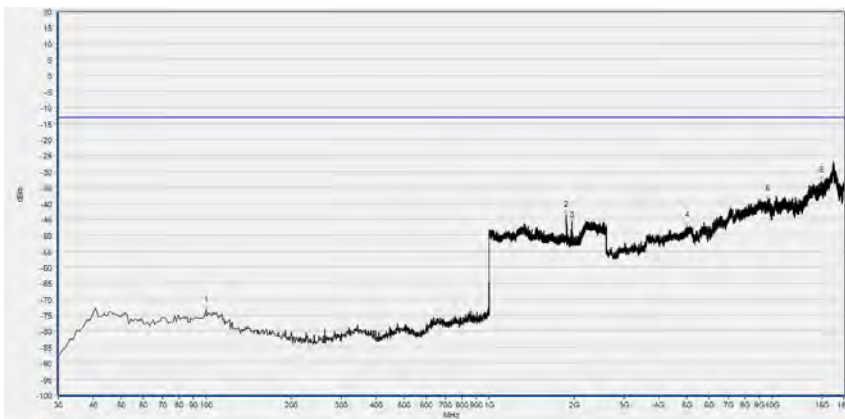


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	98.870	-73.77	-13.00	Horizontal	PASS
2	1852.821	-41.20	-13.00	Horizontal	N/A
3	1939.896	-45.09	-13.00	Horizontal	N/A
4	5210.075	-45.40	-13.00	Horizontal	PASS
5	9085.979	-38.94	-13.00	Horizontal	PASS
6	14040.080	-33.03	-13.00	Horizontal	PASS

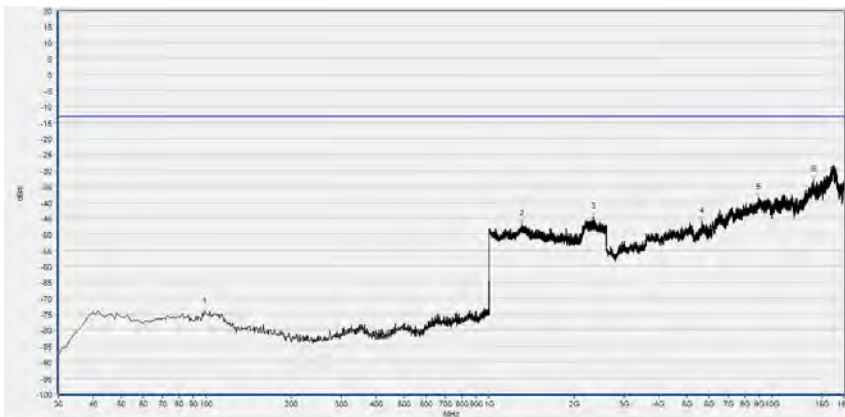


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.630	-74.10	-13.00	Vertical	PASS
2	1301.561	-47.26	-13.00	Vertical	PASS
3	1852.181	-45.16	-13.00	Vertical	N/A
4	5120.458	-47.40	-13.00	Vertical	PASS
5	9497.654	-37.78	-13.00	Vertical	PASS
6	15518.749	-31.83	-13.00	Vertical	PASS

LTE Band 25, 20MHz BW, Mid Channel, QPSK

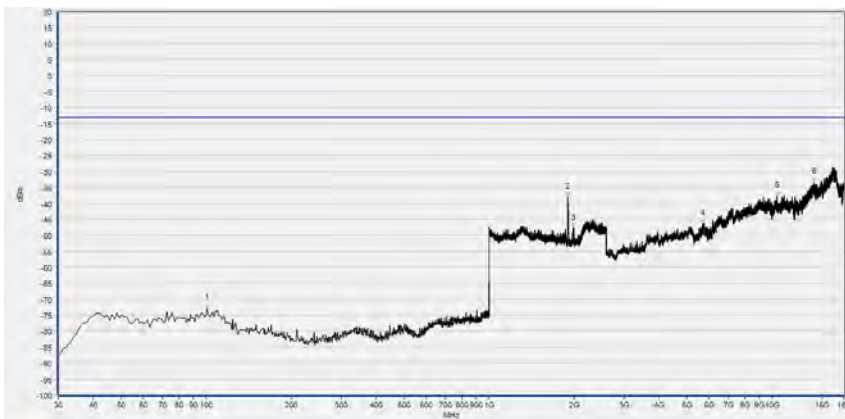


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	99.840	-73.51	-13.00	Horizontal	PASS
2	1875.870	-43.74	-13.00	Horizontal	N/A
3	1962.945	-45.59	-13.00	Horizontal	N/A
4	5002.837	-47.12	-13.00	Horizontal	PASS
5	9651.682	-38.75	-13.00	Horizontal	PASS
6	14967.049	-32.96	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	98.870	-74.40	-13.00	Vertical	PASS
2	1306.042	-46.72	-13.00	Vertical	PASS
3	2340.696	-44.49	-13.00	Vertical	PASS
4	5669.358	-46.02	-13.00	Vertical	PASS
5	8979.560	-38.50	-13.00	Vertical	PASS
6	14006.474	-33.02	-13.00	Vertical	PASS

LTE Band 25, 20MHz BW, High Channel, QPSK

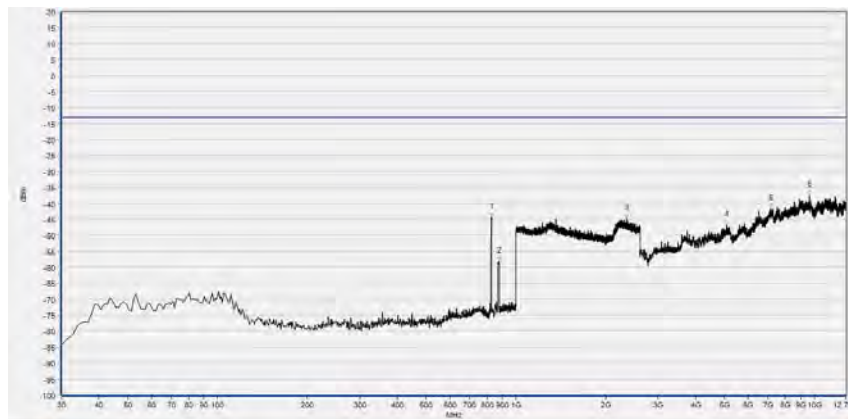


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	100.810	-72.73	-13.00	Horizontal	PASS
2	1900.840	-38.17	-13.00	Horizontal	N/A
3	1984.714	-47.50	-13.00	Horizontal	N/A
4	5677.760	-46.33	-13.00	Horizontal	PASS
5	10435.825	-37.75	-13.00	Horizontal	PASS
6	14093.290	-33.36	-13.00	Horizontal	PASS

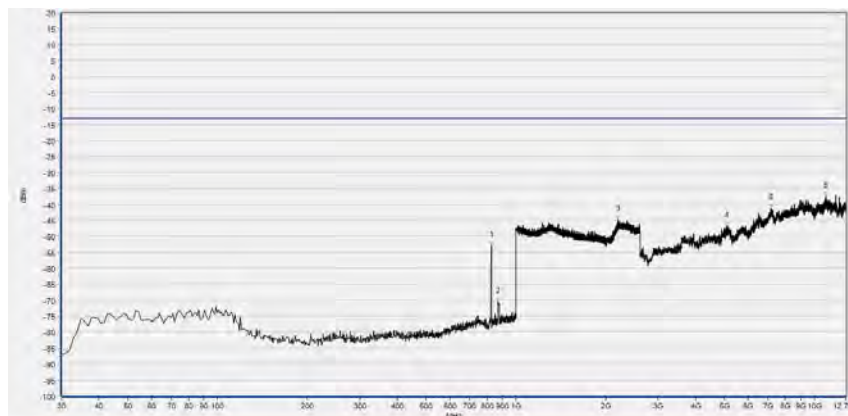


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	110.510	-72.69	-13.00	Vertical	PASS
2	1320.128	-46.27	-13.00	Vertical	PASS
3	1899.560	-45.49	-13.00	Vertical	N/A
4	5232.479	-46.19	-13.00	Vertical	PASS
5	9139.189	-38.33	-13.00	Vertical	PASS
6	15597.163	-31.10	-13.00	Vertical	PASS

LTE Band 26, 15MHz BW, Low Channel, QPSK

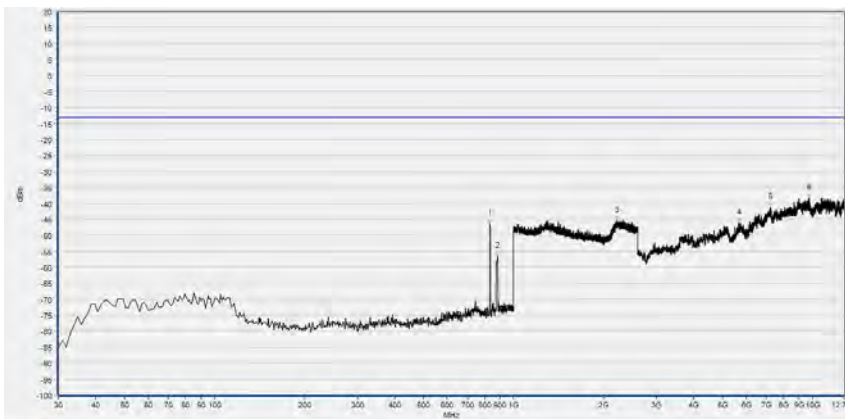


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	828.138	-44.42	-13.00	Horizontal	N/A
2	877.658	-58.29	-13.00	Horizontal	N/A
3	2353.518	-44.69	-13.00	Horizontal	PASS
4	5090.964	-46.71	-13.00	Horizontal	PASS
5	7155.485	-41.70	-13.00	Horizontal	PASS
6	9619.373	-37.49	-13.00	Horizontal	PASS

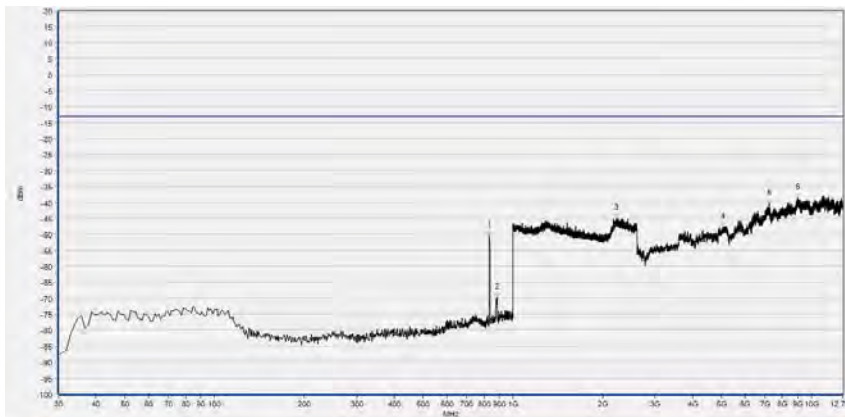


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	827.167	-52.88	-13.00	Vertical	N/A
2	871.832	-70.54	-13.00	Vertical	N/A
3	2196.132	-44.71	-13.00	Vertical	PASS
4	5070.657	-46.74	-13.00	Vertical	PASS
5	7165.639	-41.22	-13.00	Vertical	PASS
6	10898.700	-37.49	-13.00	Vertical	PASS

LTE Band 26, 15MHz BW, Mid Channel, QPSK

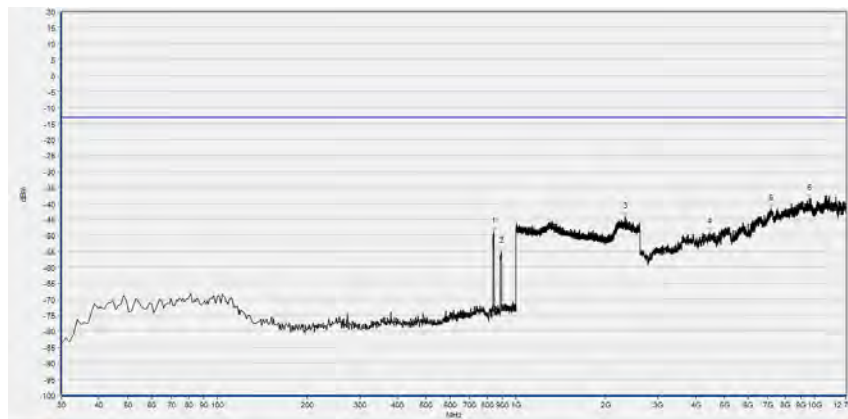


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	832.993	-46.39	-13.00	Horizontal	N/A
2	883.483	-56.65	-13.00	Horizontal	N/A
3	2211.604	-45.53	-13.00	Horizontal	PASS
4	5669.707	-46.09	-13.00	Horizontal	PASS
5	7236.712	-41.13	-13.00	Horizontal	PASS
6	9720.907	-38.41	-13.00	Horizontal	PASS

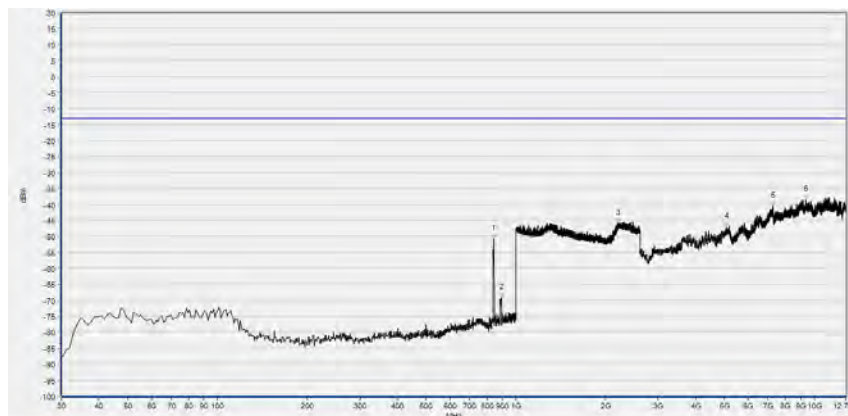


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	833.964	-50.52	-13.00	Vertical	N/A
2	884.454	-69.84	-13.00	Vertical	N/A
3	2219.073	-45.08	-13.00	Vertical	PASS
4	5040.197	-47.62	-13.00	Vertical	PASS
5	7209.637	-40.42	-13.00	Vertical	PASS
6	9003.401	-38.50	-13.00	Vertical	PASS

LTE Band 26, 15MHz BW, High Channel, QPSK

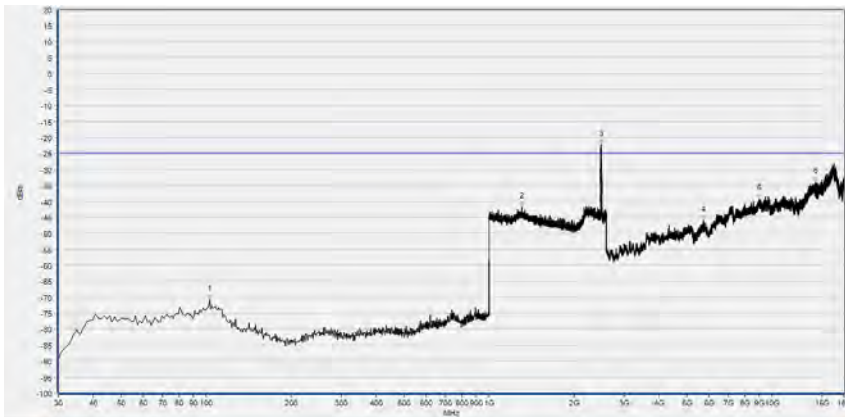


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	842.703	-48.88	-13.00	Horizontal	N/A
2	893.193	-54.99	-13.00	Horizontal	N/A
3	2322.574	-44.18	-13.00	Horizontal	PASS
4	4441.147	-49.06	-13.00	Horizontal	PASS
5	7148.716	-41.78	-13.00	Horizontal	PASS
6	9622.758	-38.64	-13.00	Horizontal	PASS

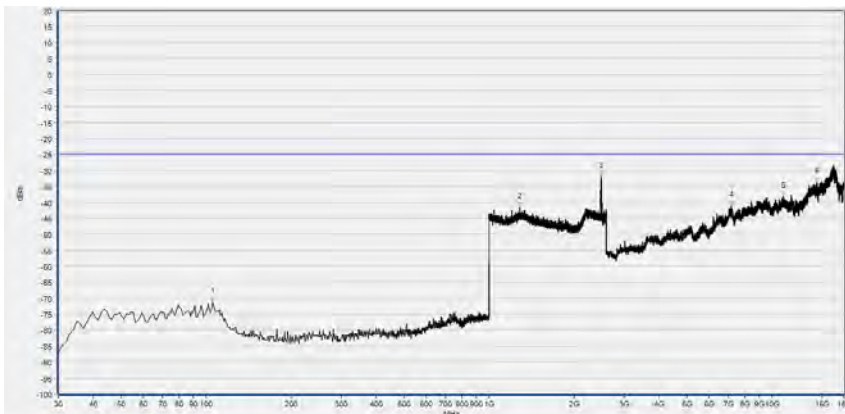


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	842.703	-50.78	-13.00	Vertical	N/A
2	893.193	-69.26	-13.00	Vertical	N/A
3	2194.532	-45.83	-13.00	Vertical	PASS
4	5087.579	-47.07	-13.00	Vertical	PASS
5	7246.866	-40.58	-13.00	Vertical	PASS
6	9362.154	-38.50	-13.00	Vertical	PASS

LTE Band 41, 20MHz BW, Low Channel, QPSK

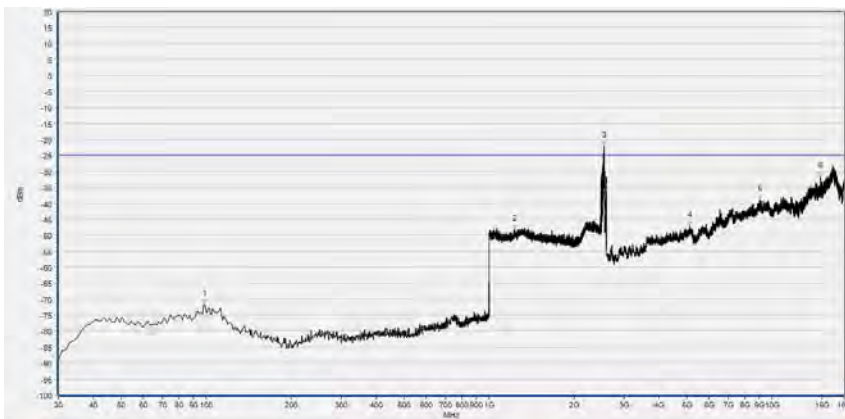


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	102.750	-70.80	-25.00	Horizontal	PASS
2	1303.481	-41.70	-25.00	Horizontal	PASS
3	2497.559	-22.27	-25.00	Horizontal	N/A
4	5714.166	-45.89	-25.00	Horizontal	PASS
5	9027.169	-39.28	-25.00	Horizontal	PASS
6	14269.722	-33.80	-25.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	105.660	-71.17	-25.00	Vertical	PASS
2	1286.194	-41.56	-25.00	Vertical	PASS
3	2487.315	-31.91	-25.00	Vertical	N/A
4	7190.035	-40.94	-25.00	Vertical	PASS
5	10976.323	-38.11	-25.00	Vertical	PASS
6	14440.553	-33.69	-25.00	Vertical	PASS

LTE Band 41, 20MHz BW, Mid Channel, QPSK

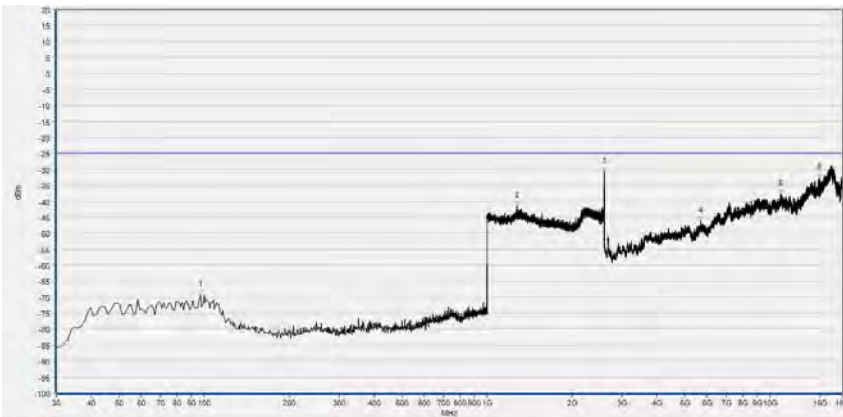


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	98.870	-71.61	-25.00	Horizontal	PASS
2	1235.614	-48.18	-25.00	Horizontal	PASS
3	2552.621	-22.09	-25.00	Horizontal	N/A
4	5114.857	-47.03	-25.00	Horizontal	PASS
5	9063.575	-38.74	-25.00	Horizontal	PASS
6	14841.026	-31.61	-25.00	Horizontal	PASS

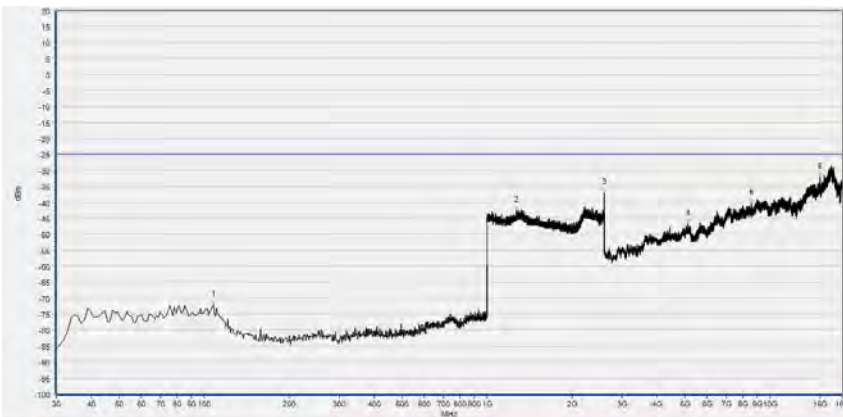


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	97.968	-71.59	-25.00	Vertical	PASS
2	1336.646	-46.80	-25.00	Vertical	PASS
3	2538.113	-33.13	-25.00	Vertical	N/A
4	4950.510	-47.95	-25.00	Vertical	PASS
5	9001.520	-37.18	-25.00	Vertical	PASS
6	14441.888	-35.13	-25.00	Vertical	PASS

LTE Band 41, 20MHz BW, High Channel, QPSK

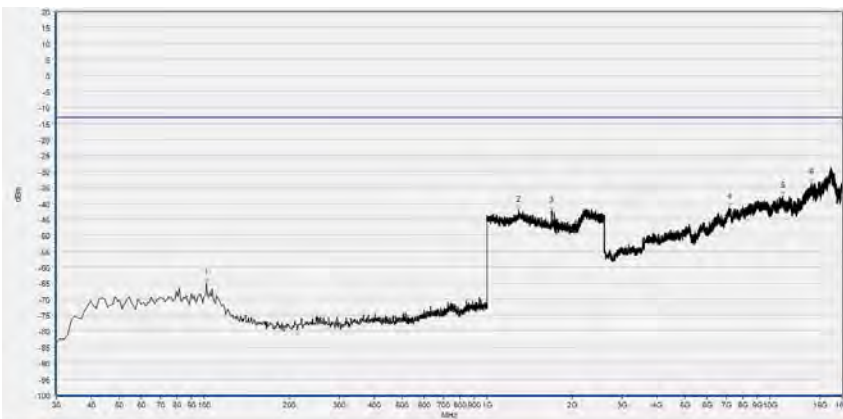


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	96.930	-69.44	-25.00	Horizontal	PASS
2	1277.871	-41.38	-25.00	Horizontal	PASS
3	2598.719	-30.62	-25.00	Horizontal	N/A
4	5683.361	-46.06	-25.00	Horizontal	PASS
5	10914.712	-37.72	-25.00	Horizontal	PASS
6	14905.437	-32.63	-25.00	Horizontal	PASS

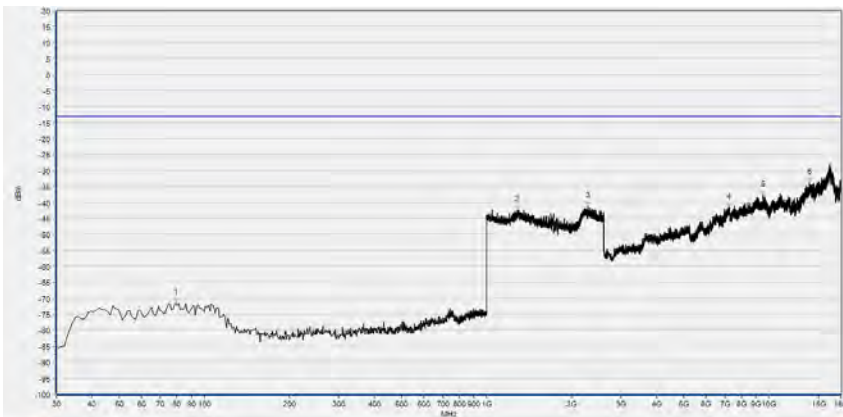


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	107.600	-72.03	-25.00	Vertical	PASS
2	1270.188	-42.60	-25.00	Vertical	PASS
3	2599.360	-36.94	-25.00	Vertical	N/A
4	5114.857	-46.90	-25.00	Vertical	PASS
5	8601.491	-40.31	-25.00	Vertical	PASS
6	15009.056	-31.99	-25.00	Vertical	PASS

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

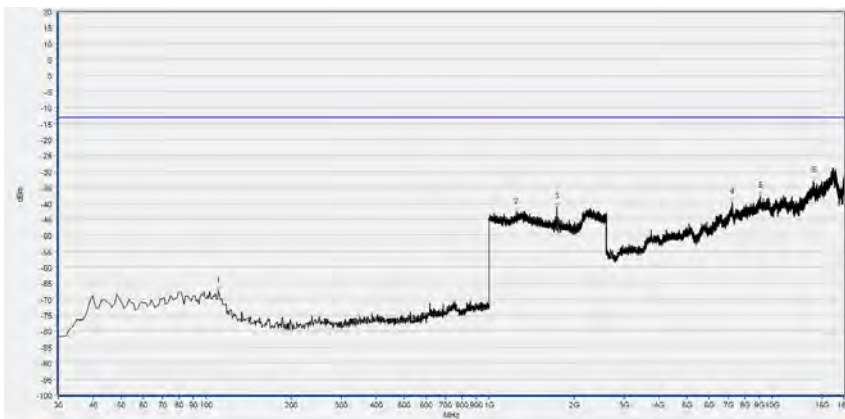


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	101.852	-64.95	-13.00	Horizontal	PASS
2	1295.348	-42.07	-13.00	Horizontal	PASS
3	1692.346	-42.26	-13.00	Horizontal	PASS
4	7197.666	-41.30	-13.00	Horizontal	PASS
5	11135.589	-37.55	-13.00	Horizontal	PASS
6	14026.138	-33.73	-13.00	Horizontal	PASS

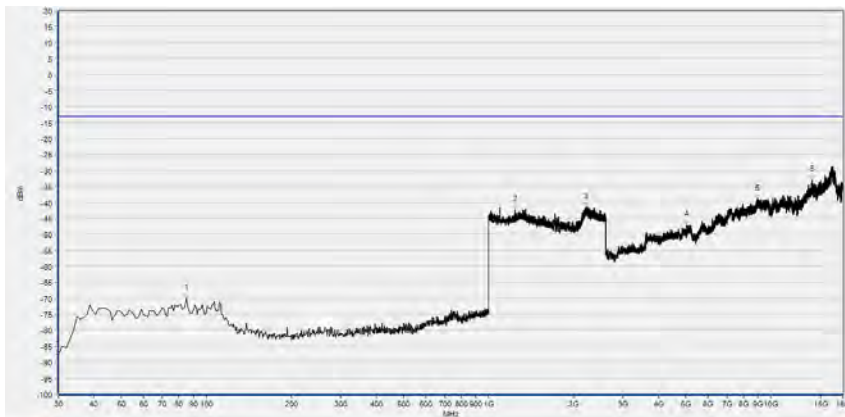


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	79.520	-71.47	-13.00	Vertical	PASS
2	1283.342	-42.42	-13.00	Vertical	PASS
3	2290.245	-41.17	-13.00	Vertical	PASS
4	7223.337	-41.73	-13.00	Vertical	PASS
5	9551.692	-37.66	-13.00	Vertical	PASS
6	13941.424	-33.89	-13.00	Vertical	PASS

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

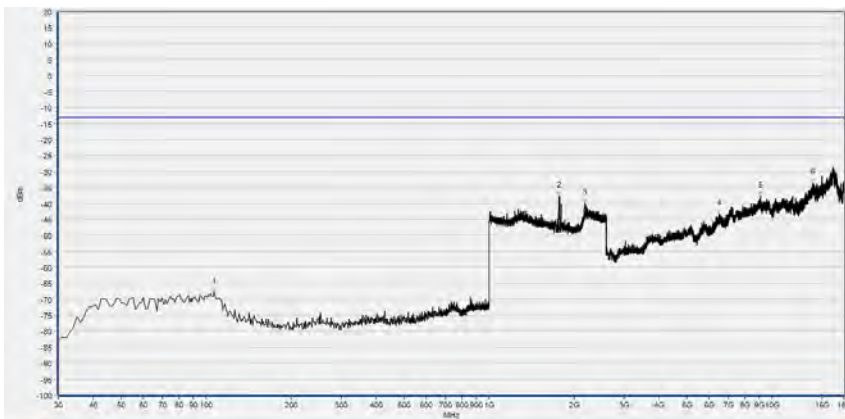


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	110.591	-67.48	-13.00	Horizontal	PASS
2	1245.723	-42.75	-13.00	Horizontal	PASS
3	1736.368	-41.13	-13.00	Horizontal	N/A
4	7243.874	-39.62	-13.00	Horizontal	PASS
5	9133.256	-37.59	-13.00	Horizontal	PASS
6	14036.406	-33.04	-13.00	Horizontal	PASS

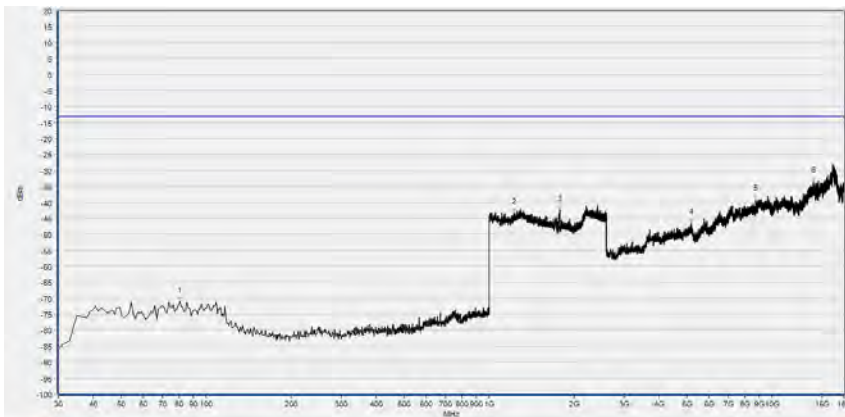


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	85.345	-70.07	-13.00	Horizontal	PASS
2	1241.721	-42.31	-13.00	Horizontal	PASS
3	2203.802	-41.40	-13.00	Horizontal	PASS
4	5028.471	-46.96	-13.00	Horizontal	PASS
5	8922.754	-38.89	-13.00	Horizontal	PASS
6	14023.571	-32.97	-13.00	Horizontal	PASS

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

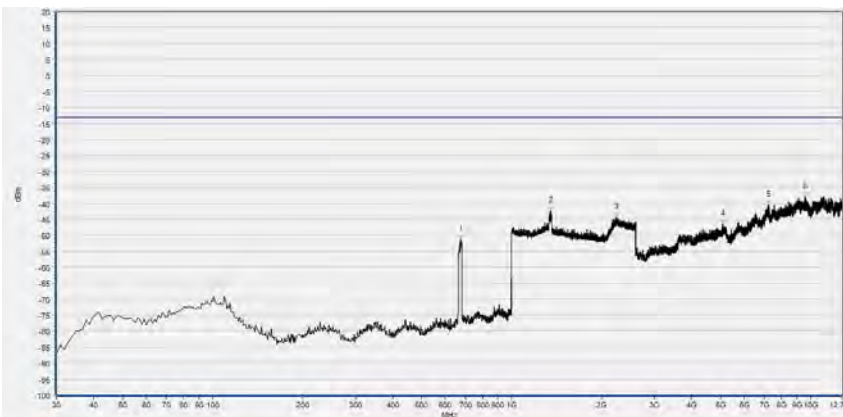


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	106.707	-67.73	-13.00	Horizontal	PASS
2	1766.783	-37.70	-13.00	Horizontal	N/A
3	2177.389	-39.97	-13.00	Horizontal	N/A
4	6517.386	-43.35	-13.00	Horizontal	PASS
5	9107.585	-37.68	-13.00	Horizontal	PASS
6	13931.155	-33.64	-13.00	Horizontal	PASS

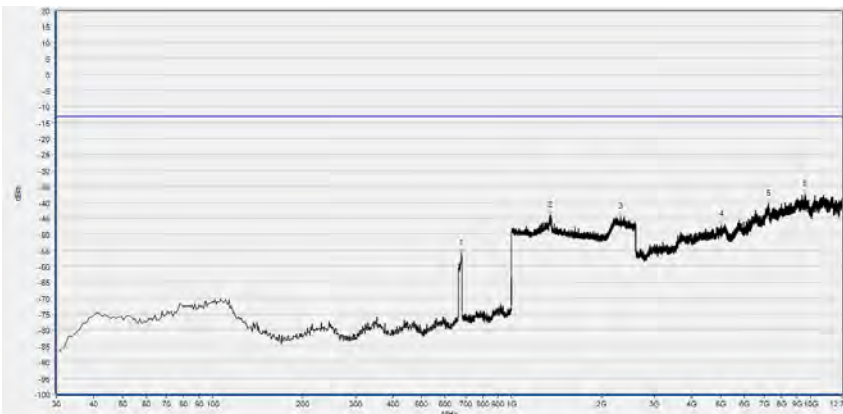


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	80.490	-70.88	-13.00	Vertical	PASS
2	1228.914	-43.33	-13.00	Vertical	PASS
3	1775.588	-42.39	-13.00	Vertical	N/A
4	5200.467	-46.40	-13.00	Vertical	PASS
5	8776.429	-39.04	-13.00	Vertical	PASS
6	14021.004	-33.45	-13.00	Vertical	PASS

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

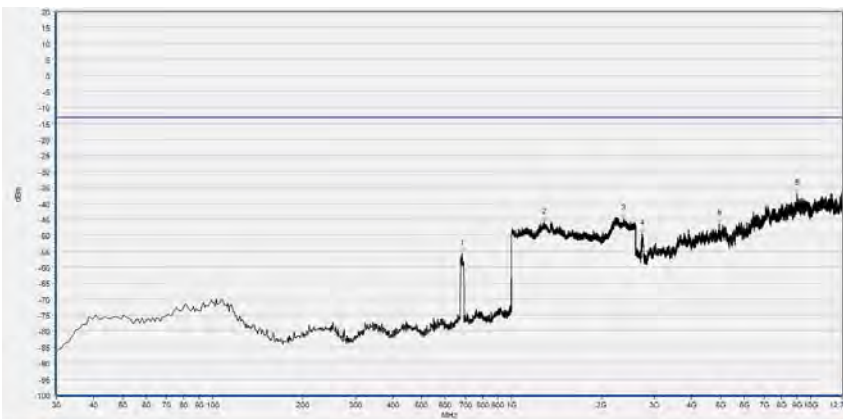


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	676.020	-51.31	-13.00	Horizontal	N/A
2	1350.220	-42.26	-13.00	Horizontal	PASS
3	2243.377	-44.30	-13.00	Horizontal	PASS
4	5075.205	-46.57	-13.00	Horizontal	PASS
5	7240.316	-40.53	-13.00	Horizontal	PASS
6	9580.778	-37.80	-13.00	Horizontal	PASS

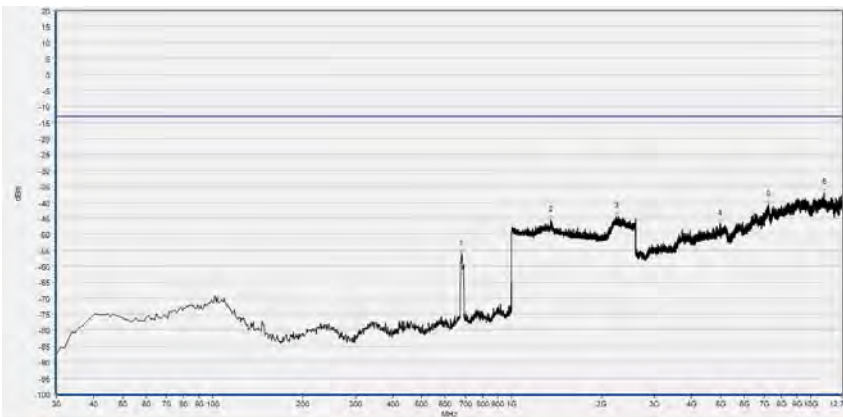


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	679.900	-55.89	-13.00	Vertical	N/A
2	1342.537	-44.19	-13.00	Vertical	PASS
3	2313.165	-44.66	-13.00	Vertical	PASS
4	5041.980	-47.10	-13.00	Vertical	PASS
5	7238.471	-40.66	-13.00	Vertical	PASS
6	9566.012	-37.54	-13.00	Vertical	PASS

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

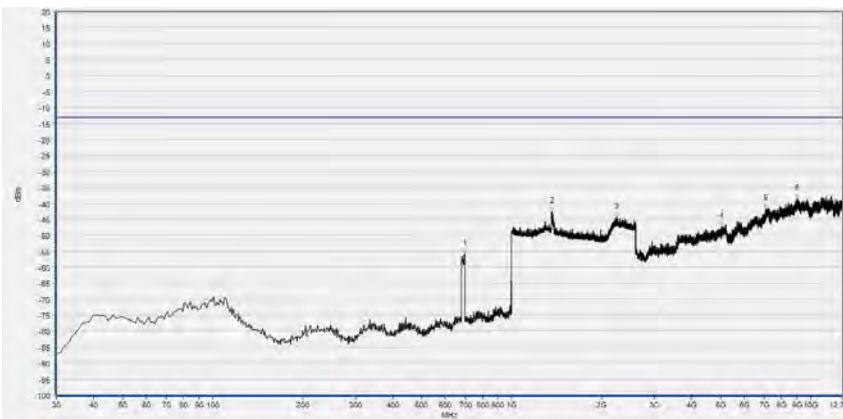


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	681.840	-55.74	-13.00	Horizontal	N/A
2	1282.353	-45.90	-13.00	Horizontal	PASS
3	2368.868	-44.74	-13.00	Horizontal	PASS
4	2731.051	-49.41	-13.00	Horizontal	PASS
5	4949.691	-46.46	-13.00	Horizontal	PASS
6	9001.200	-36.94	-13.00	Horizontal	PASS

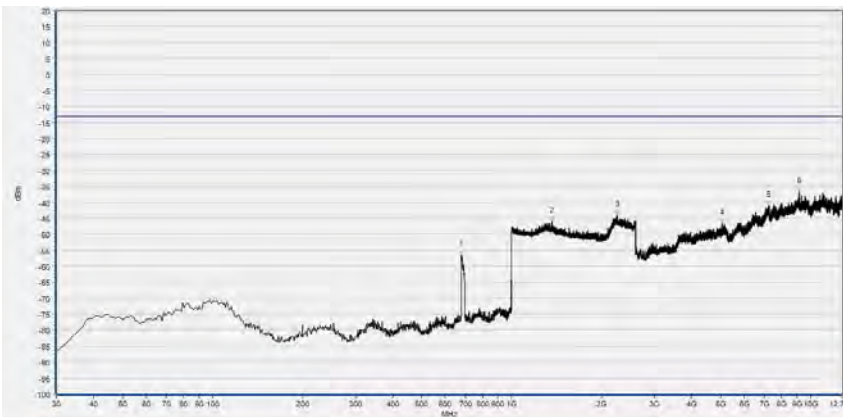


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	680.870	-56.15	-13.00	Vertical	N/A
2	1354.062	-45.57	-13.00	Vertical	PASS
3	2237.615	-44.35	-13.00	Vertical	PASS
4	4975.532	-46.91	-13.00	Vertical	PASS
5	7231.087	-40.85	-13.00	Vertical	PASS
6	11120.167	-36.97	-13.00	Vertical	PASS

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



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	696.390	-55.81	-13.00	Horizontal	N/A
2	1363.665	-42.61	-13.00	Horizontal	PASS
3	2236.975	-44.45	-13.00	Horizontal	PASS
4	5032.751	-47.29	-13.00	Horizontal	PASS
5	7070.504	-41.76	-13.00	Horizontal	PASS
6	9014.121	-38.57	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	678.930	-56.76	-13.00	Vertical	N/A
2	1362.385	-45.87	-13.00	Vertical	PASS
3	2255.542	-43.91	-13.00	Vertical	PASS
4	5051.209	-46.69	-13.00	Vertical	PASS
5	7240.316	-40.95	-13.00	Vertical	PASS
6	9148.863	-36.65	-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.



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	2021.07.26	2022.07.25
EXA Signal Analyzer	MY54170556	N9030A	Agilent	2021.10.20	2022.10.19
System Simulator	6200995016	MT8820C	Anritsu	2021.10.21	2022.10.20
System Simulator	6261830572	MT8821C	Anritsu	2022.02.14	2023.02.13
Temperature Chamber	20171112102	HZ-2019	Dongguan Lixian Instrument Technology Co., Ltd	2021.10.20	2022.10.19

4.2 List of Software Used

Description	Manufacturer	Software Version
Morlab FCC Test System	MORLAB	V3.0
MORLAB EMCR V1.2	MORLAB	V1.0

**4.3 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2021.10.21	2022.10.20
System Simulator	6200995016	MT8820C	Anritsu	2021.10.21	2022.10.20
Receiver	MY54130016	N9038A	Agilent	2021.07.16	2022.07.15
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2021.07.16	2022.07.15
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2021.07.16	2022.07.15
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV -LTE B2	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV -LTE B4	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV -LTE B5	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV -LTE B7	Wainwright	2021.07.16	2022.07.15



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Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Notch Filter	N/A	WRCGV -LTE B13	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV -LTE B26	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV -LTE B38	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCGV -LTE B66	Wainwright	2021.07.16	2022.07.15
Anechoic Chamber	N/A	9m*6m*6m	CRT	2019.07.13	2022.07.12

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