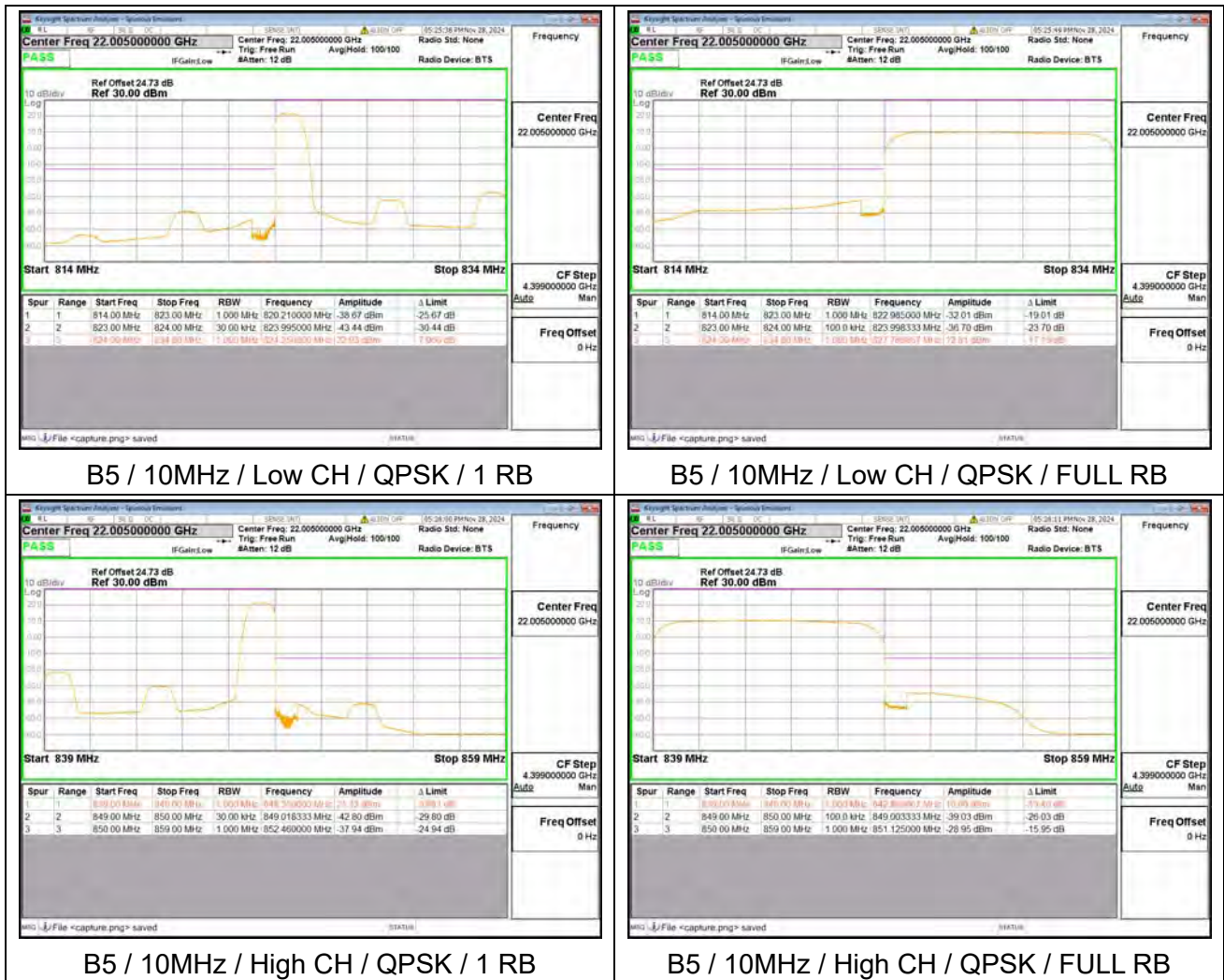
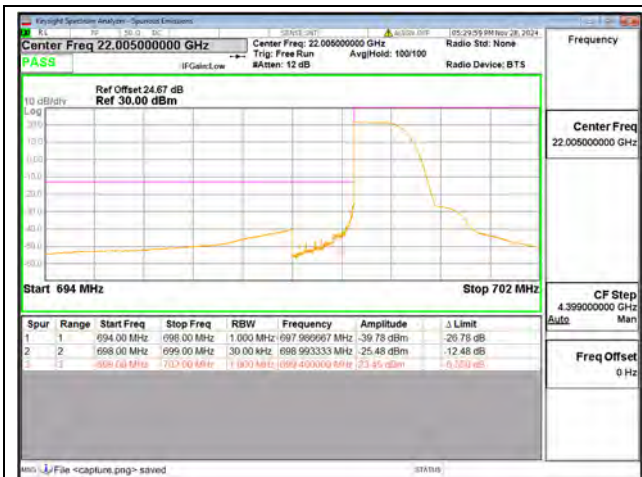


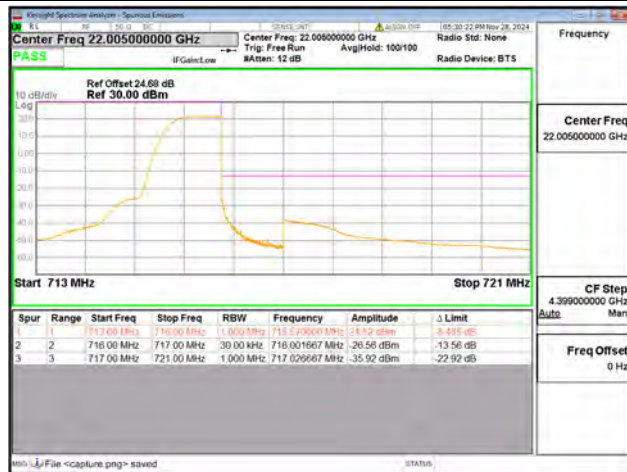




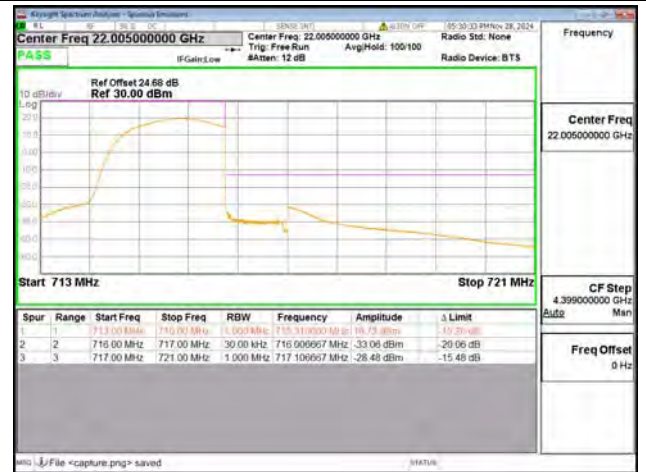
B12 / 1.4MHz / Low CH / QPSK / 1 RB



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



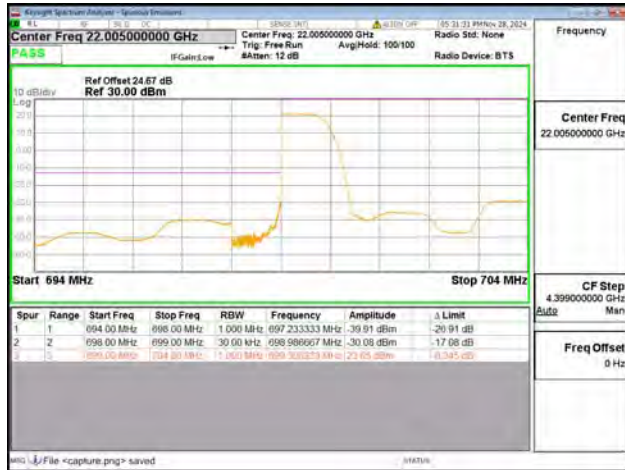
B12 / 3MHz / Low CH / QPSK / FULL RB



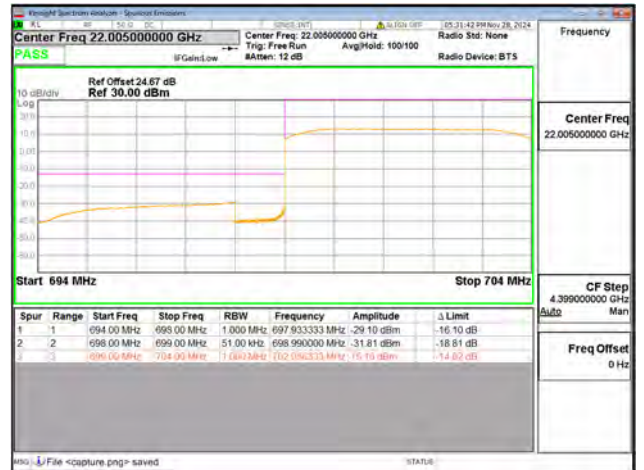
B12 / 3MHz / High CH / QPSK / 1 RB



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



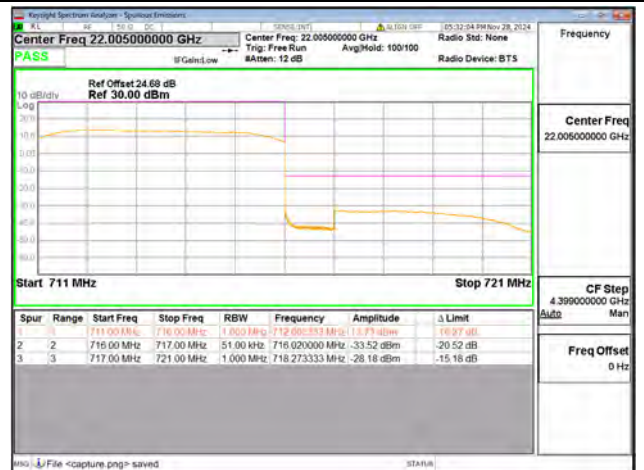
B12 / 5MHz / Low CH / QPSK / 1 RB



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

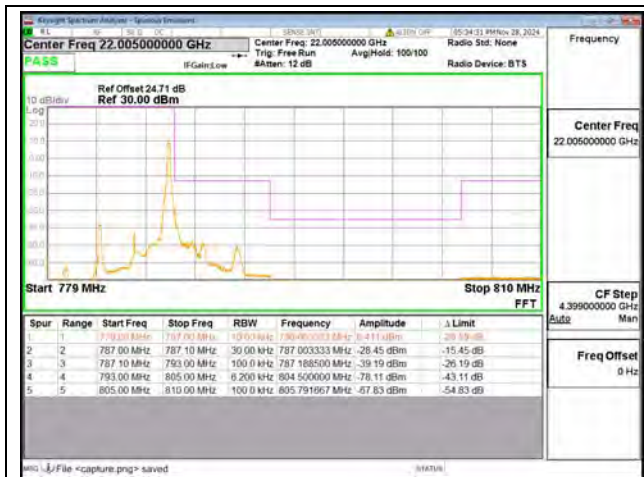


B12 / 5MHz / High CH / QPSK / 1 RB

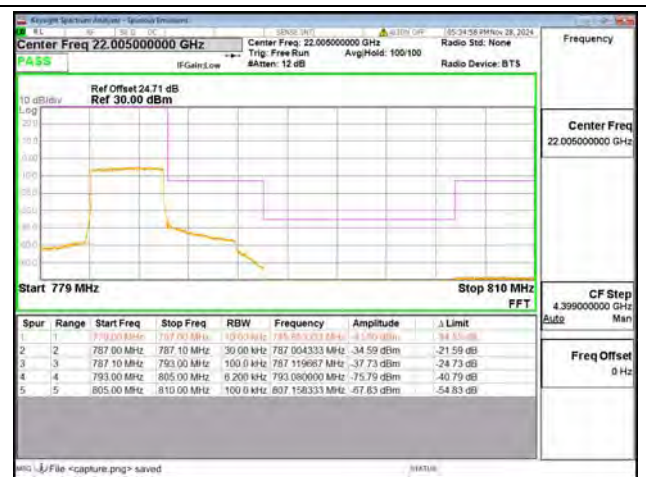


B12 / 5MHz / High CH / QPSK / FULL RB

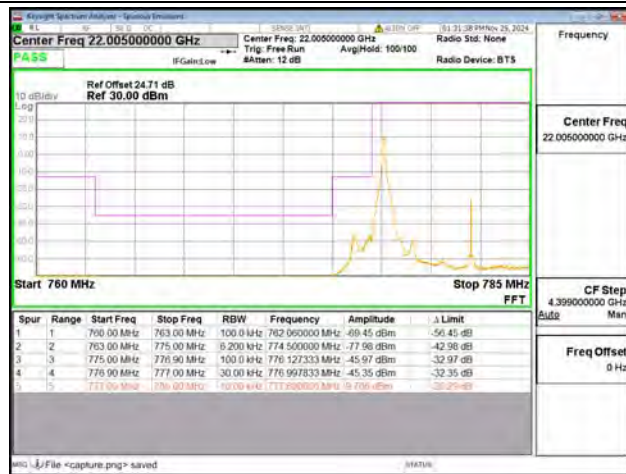




B13 / 5MHz / High CH / QPSK / 1 RB



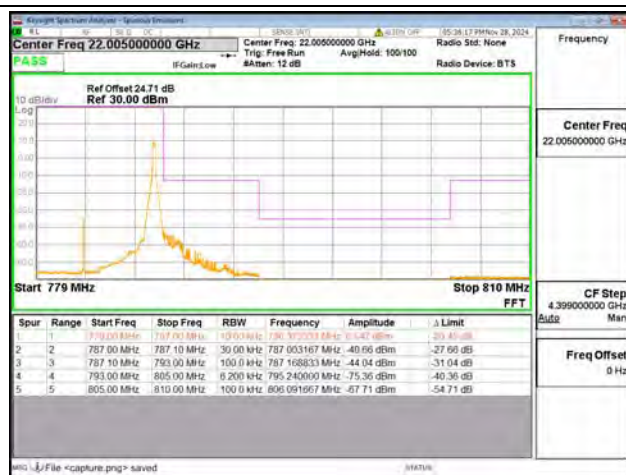
B13 / 5MHz / High CH / QPSK / FULL RB



B13 / 10MHz / Low CH / QPSK / 1 RB



B13 / 10MHz / Low CH / QPSK / FULL RB



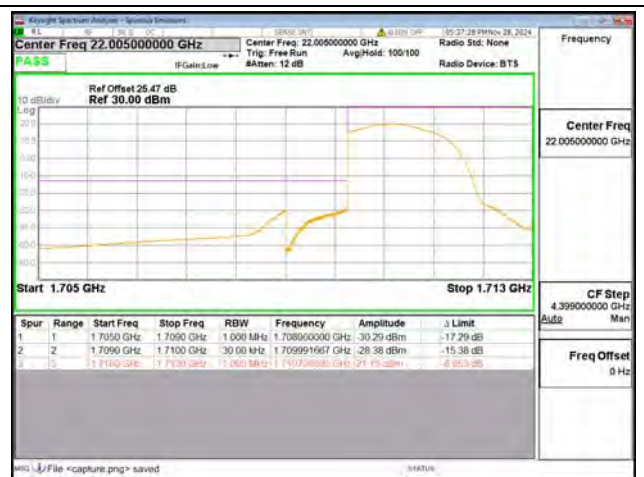
B13 / 10MHz / High CH / QPSK / 1 RB



B13 / 10MHz / High CH / QPSK / FULL RB



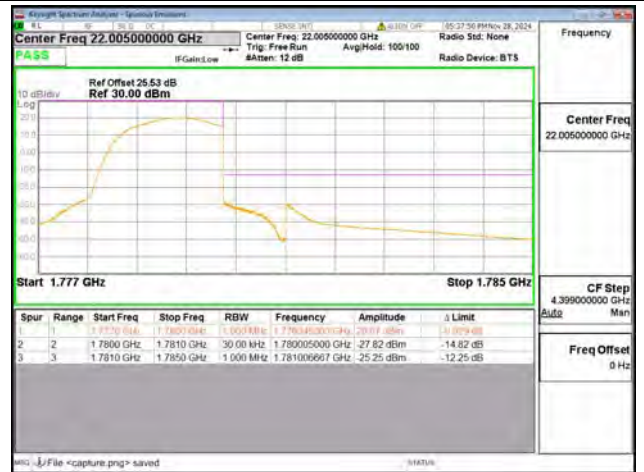
B66 / 1.4MHz / Low CH / QPSK / 1 RB



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



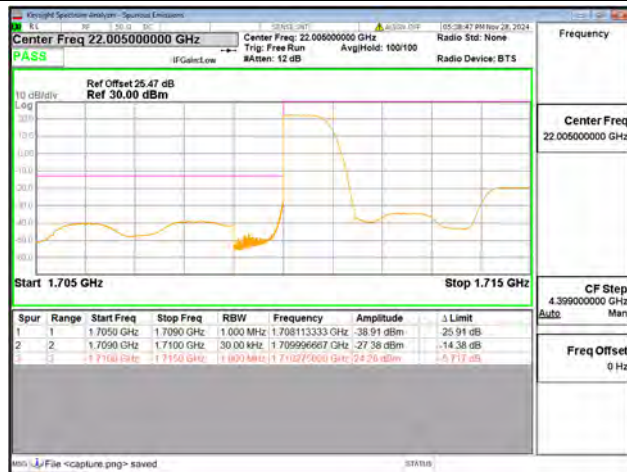
B66 / 3MHz / Low CH / QPSK / FULL RB



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



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



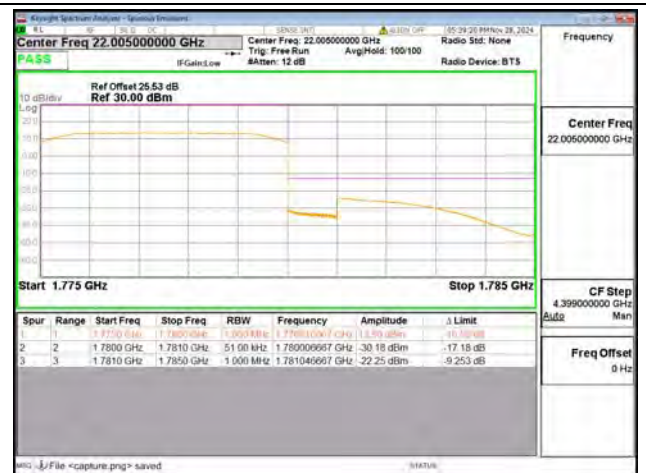
B66 / 5MHz / Low CH / QPSK / 1 RB



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



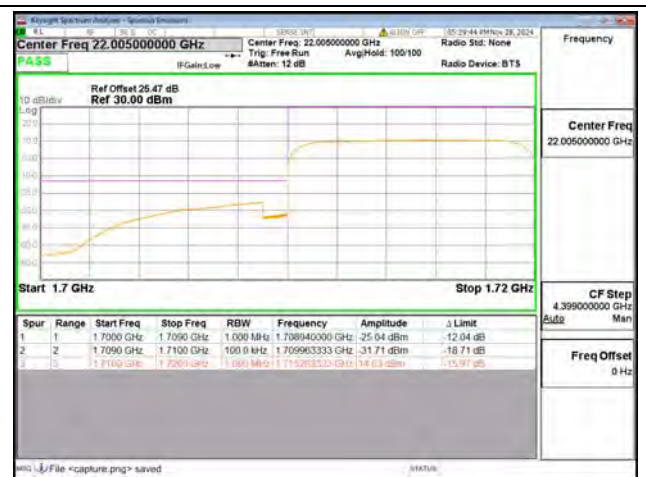
B66 / 5MHz / High CH / QPSK / 1 RB



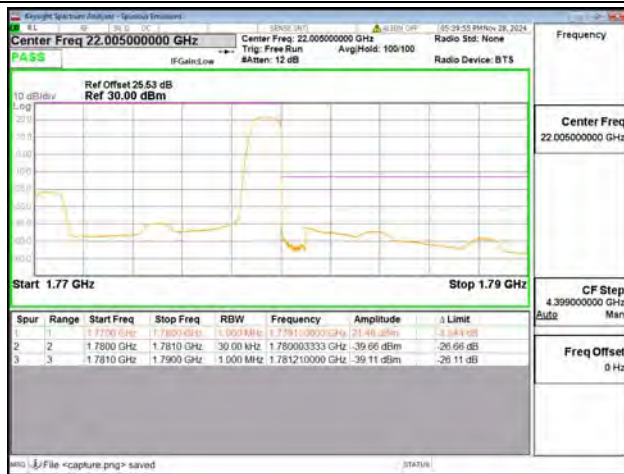
B66 / 5MHz / High CH / QPSK / FULL RB



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



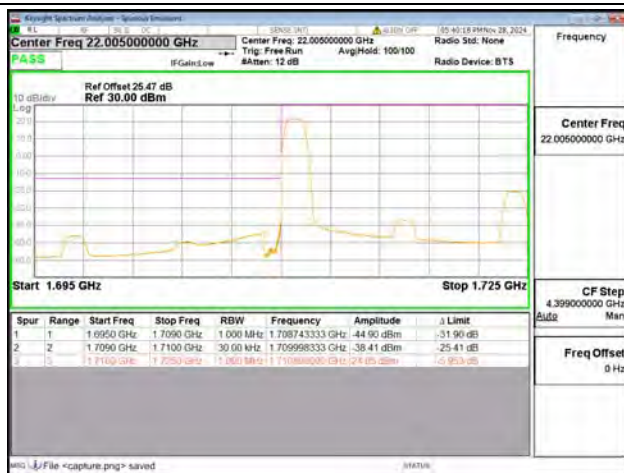
B66 / 10MHz / Low CH / QPSK / FULL RB



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



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

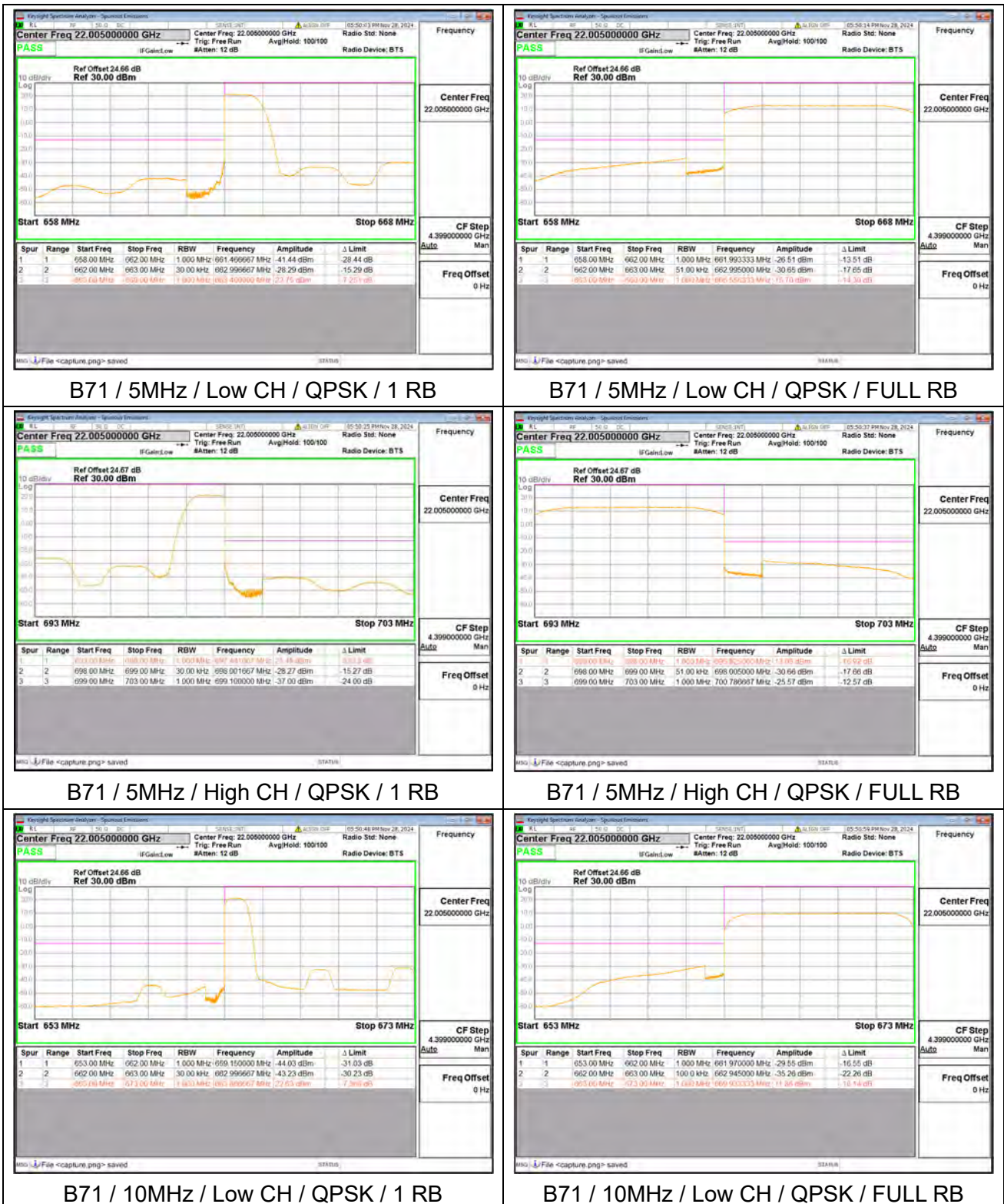


B66 / 15MHz / Low CH / QPSK / 1 RB



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









2.7. Radiated Spurious Emissions

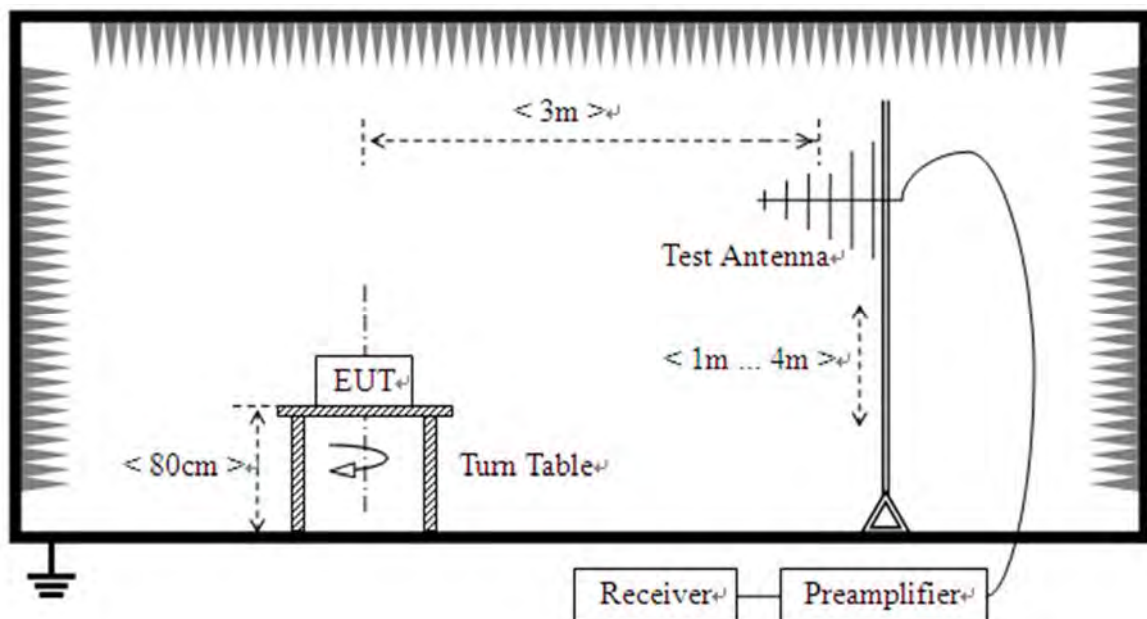
2.7.1. Requirement

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.

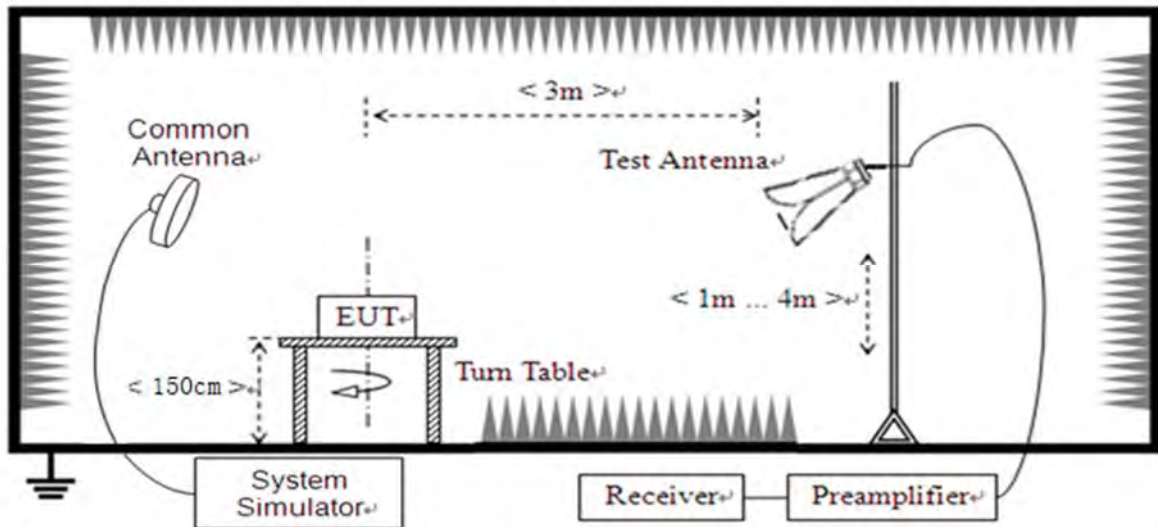
Additional requirement for Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (E.I.R.P.) for wideband signals, and -80 dBW E.I.R.P. for discrete emissions of less than 700 Hz bandwidth. This calculated to be -40dBm.

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 (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.

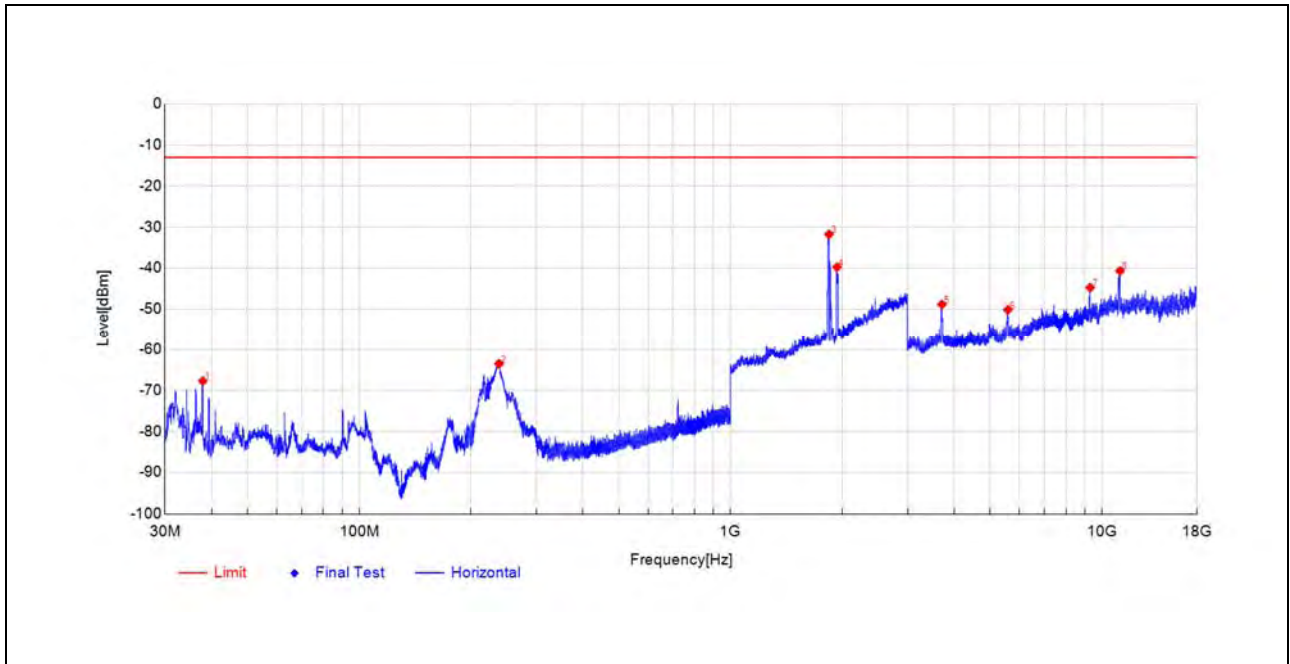
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

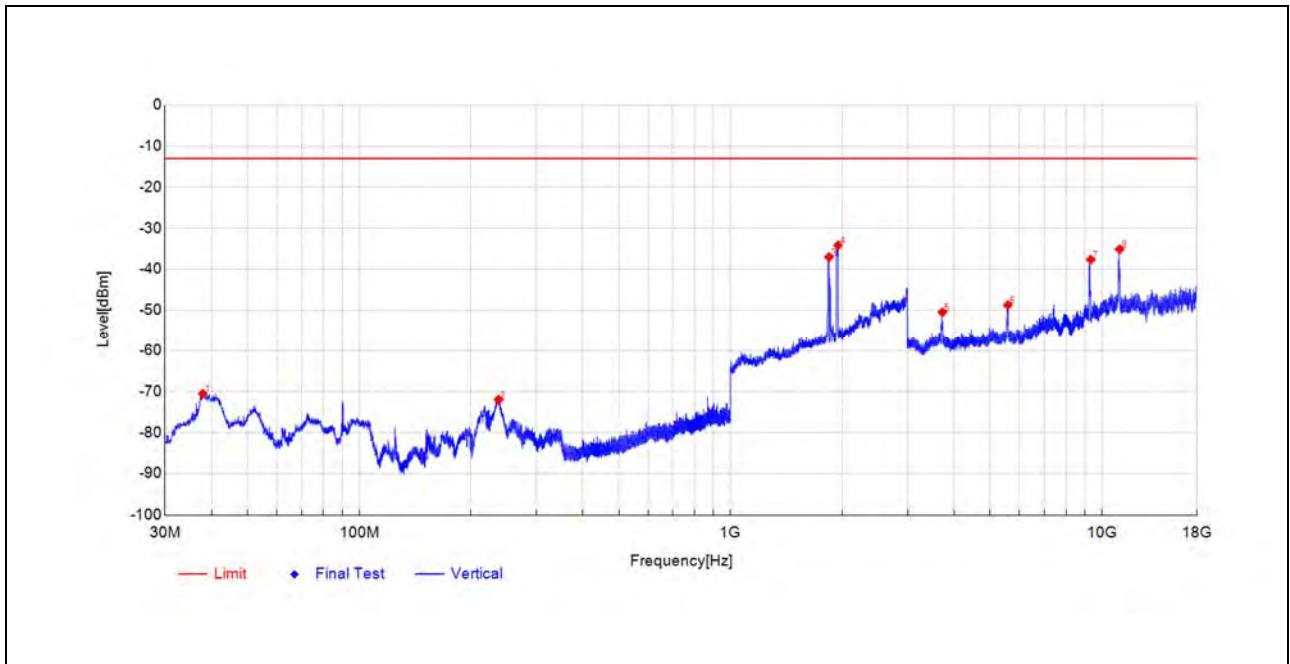
Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

**LTE Band 2**

Plot for Low Channel

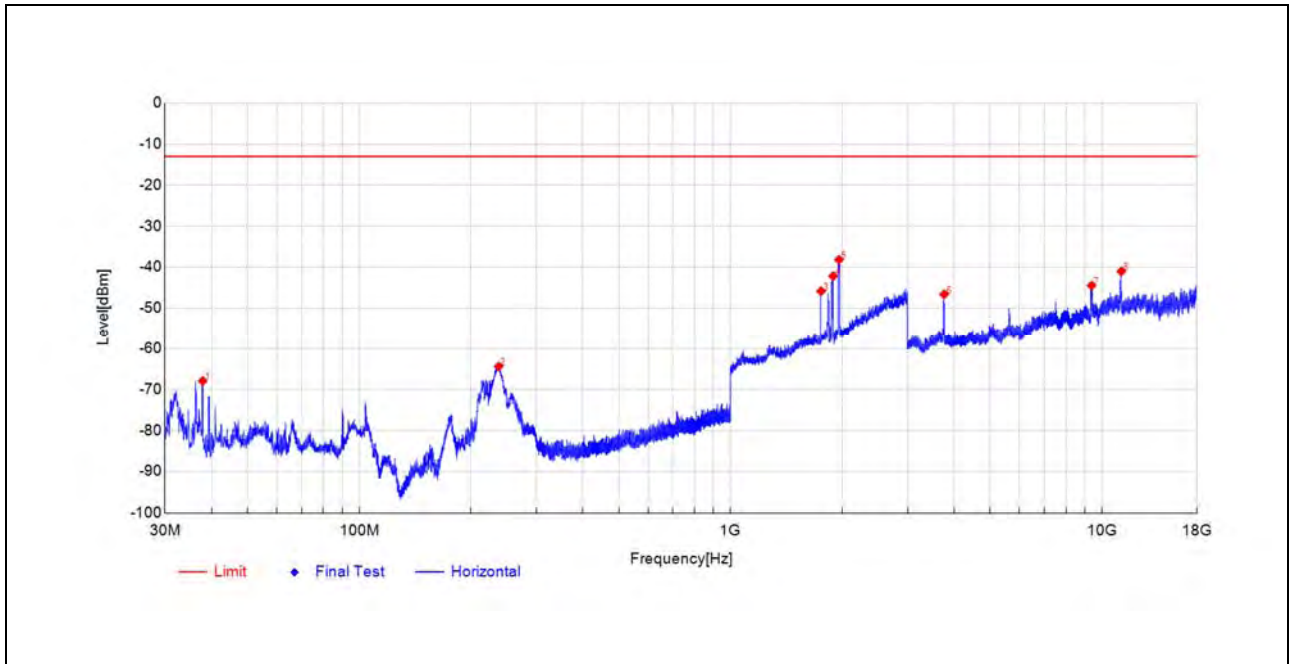


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-52.47	-67.74	-15.3	-13.0	54.7	Horizontal	PK	PASS
237.9784	-47.64	-63.52	-15.9	-13.0	50.5	Horizontal	PK	PASS
1841.7684	-35.99	-31.75	4.2	-13.0	18.8	Horizontal	PK	PASS
1934.1868	-43.75	-39.75	4.0	-	-	Horizontal	PK	NA
3706.8153	-50.54	-48.83	1.7	-13.0	35.8	Horizontal	PK	PASS
5579.0827	-56.92	-50.15	6.8	-13.0	37.2	Horizontal	PK	PASS
9303.0121	-59.93	-44.72	15.2	-13.0	31.7	Horizontal	PK	PASS
11192.367	-60.95	-40.66	20.3	-13.0	27.7	Horizontal	PK	PASS

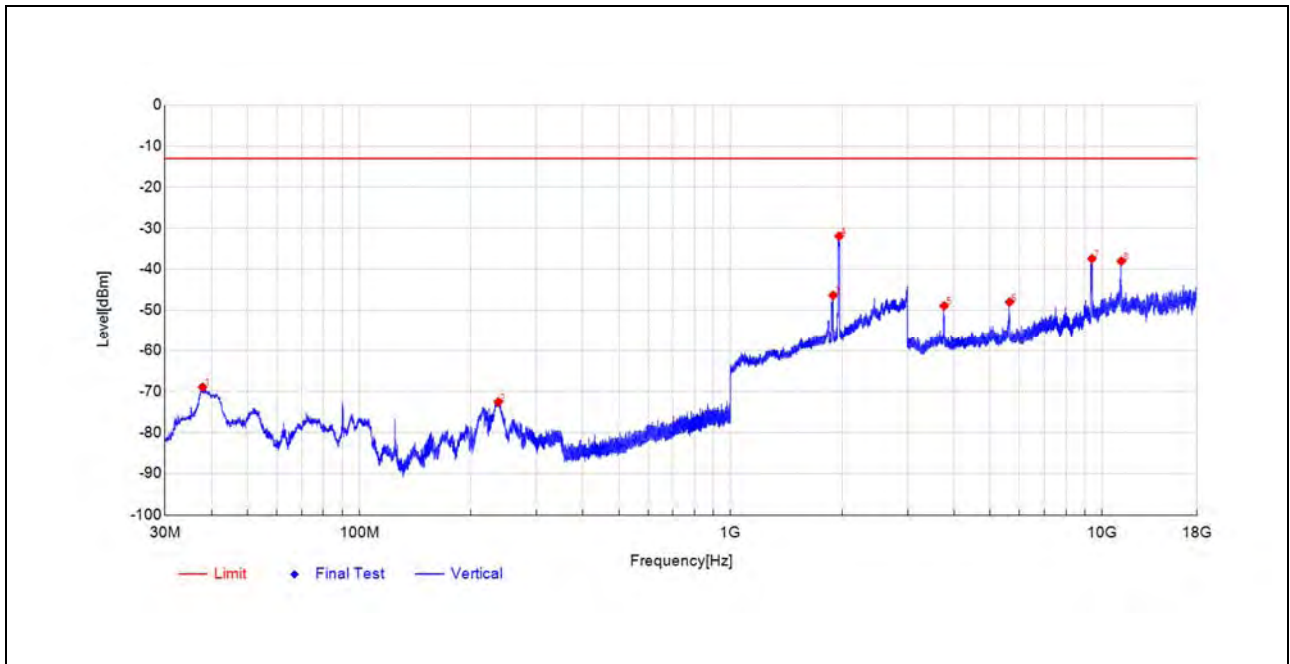


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-47.94	-70.53	-22.6	-13.0	57.5	Vertical	PK	PASS
237.2994	-53.21	-72.00	-18.8	-13.0	59.0	Vertical	PK	PASS
1841.3683	-41.55	-37.01	4.5	-13.0	24.0	Vertical	PK	PASS
1948.1896	-38.14	-34.16	4.0	-	-	Vertical	PK	NA
3720.1029	-51.97	-50.43	1.5	-13.0	37.4	Vertical	PK	PASS
5579.94	-55.34	-48.73	6.6	-13.0	35.7	Vertical	PK	PASS
9326.053	-53.73	-37.65	16.1	-13.0	24.7	Vertical	PK	PASS
11159.726	-56.75	-35.12	21.6	-13.0	22.1	Vertical	PK	PASS

Plot for Mid Channel

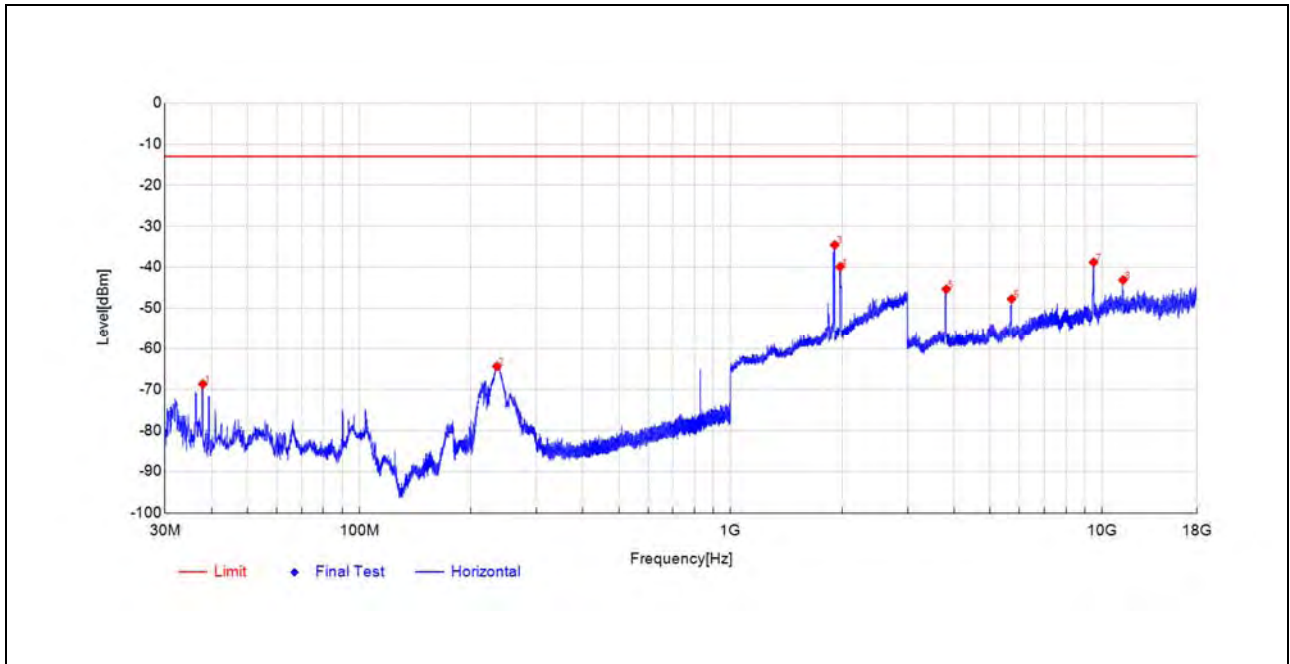


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-52.65	-67.92	-15.3	-13.0	54.9	Horizontal	PK	PASS
237.2994	-48.59	-64.42	-15.8	-13.0	51.4	Horizontal	PK	PASS
1752.1504	-47.98	-45.83	2.2	-13.0	32.8	Horizontal	PK	PASS
1888.1776	-47.12	-42.15	5.0	-	-	Horizontal	PK	NA
1958.5917	-42.65	-38.16	4.5	-	-	Horizontal	PK	NA
3760.3943	-47.78	-46.61	1.2	-13.0	33.6	Horizontal	PK	PASS
9375.975	-60.49	-44.45	16.0	-13.0	31.5	Horizontal	PK	PASS
11279.731	-61.06	-41.02	20.0	-13.0	28.0	Horizontal	PK	PASS

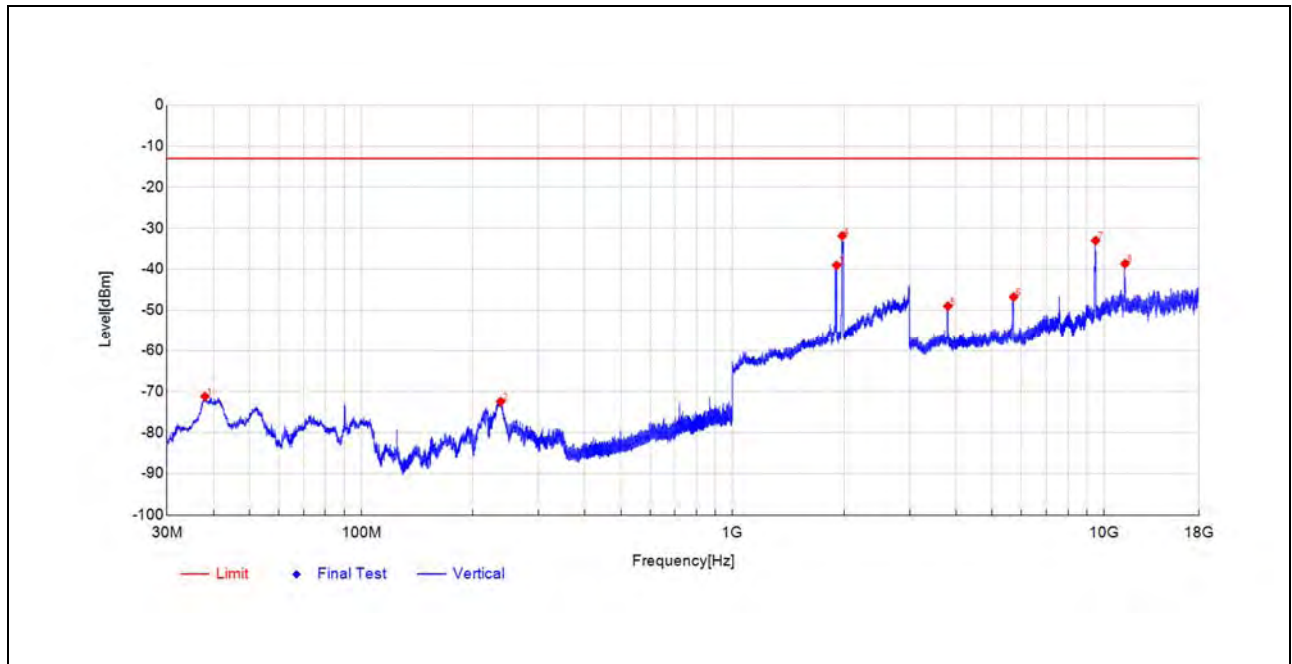


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.8574	-46.35	-68.96	-22.6	-13.0	56.0	Vertical	PK	PASS
236.9113	-53.78	-72.58	-18.8	-13.0	59.6	Vertical	PK	PASS
1888.5777	-51.45	-46.35	5.1	-	-	Vertical	PK	NA
1962.1924	-36.18	-31.91	4.3	-	-	Vertical	PK	NA
3759.9657	-49.98	-48.90	1.1	-13.0	35.9	Vertical	PK	PASS
5636.9481	-54.70	-47.99	6.7	-13.0	35.0	Vertical	PK	PASS
9399.976	-53.90	-37.41	16.5	-13.0	24.4	Vertical	PK	PASS
11280.691	-57.93	-38.00	19.9	-13.0	25.0	Vertical	PK	PASS

Plot for High Channel



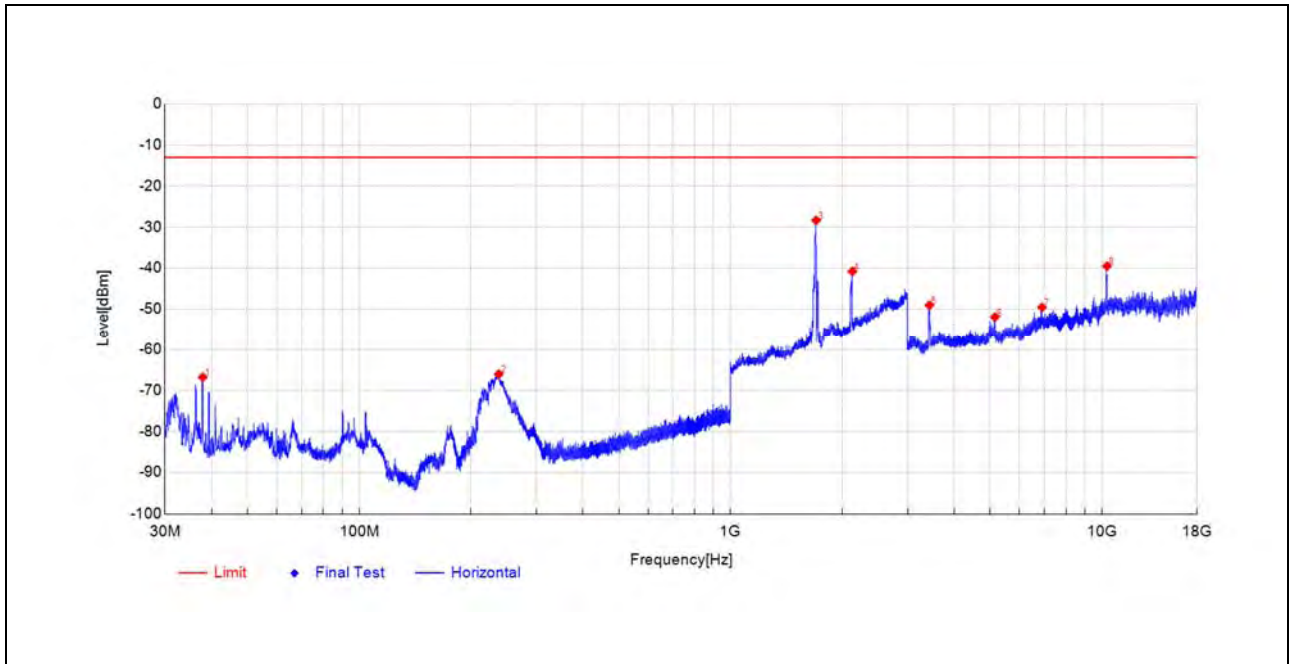
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-53.42	-68.69	-15.3	-13.0	55.7	Horizontal	PK	PASS
234.7287	-48.77	-64.39	-15.6	-13.0	51.4	Horizontal	PK	PASS
1906.9814	-38.85	-34.57	4.3	-	-	Horizontal	PK	NA
1972.9946	-44.51	-39.91	4.6	-	-	Horizontal	PK	NA
3809.6871	-46.18	-45.35	0.8	-13.0	32.4	Horizontal	PK	PASS
5711.5302	-55.19	-47.74	7.5	-13.0	34.7	Horizontal	PK	PASS
9499.82	-55.40	-38.78	16.6	-13.0	25.8	Horizontal	PK	PASS
11400.216	-62.87	-43.11	19.8	-13.0	30.1	Horizontal	PK	PASS



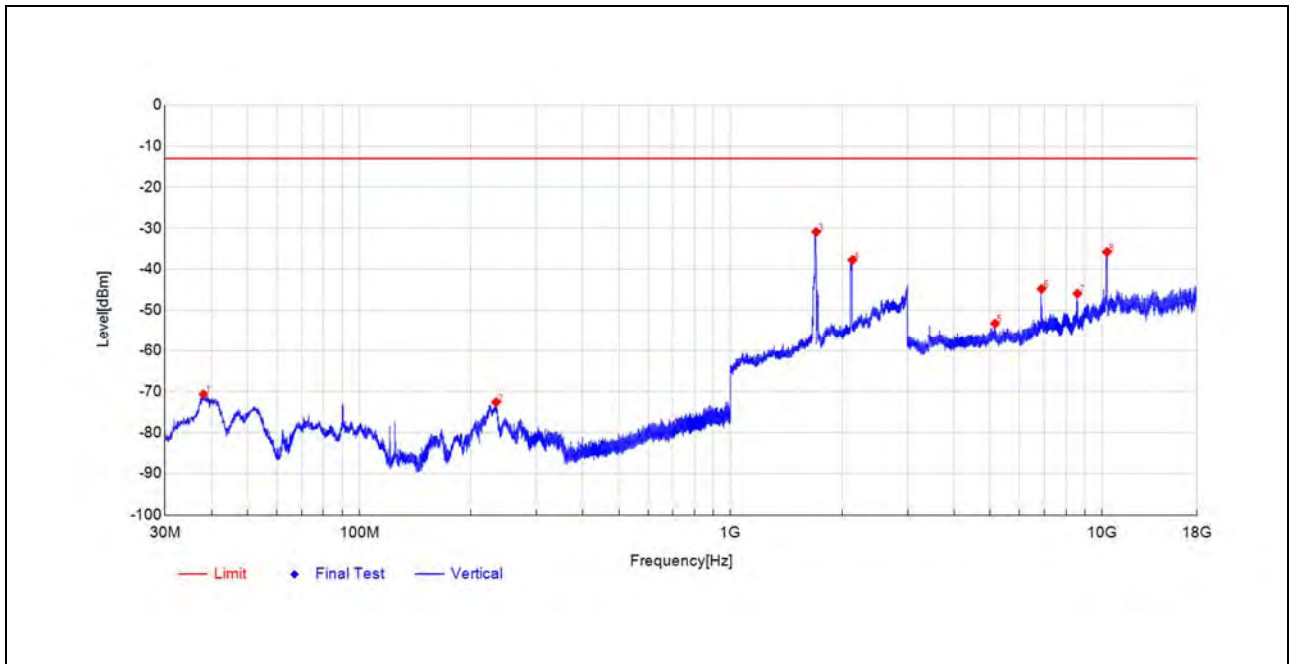
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9544	-48.63	-71.21	-22.6	-13.0	58.2	Vertical	PK	PASS
237.4449	-53.70	-72.49	-18.8	-13.0	59.5	Vertical	PK	PASS
1906.1812	-44.05	-39.02	5.0	-	-	Vertical	PK	NA
1973.3947	-36.48	-31.85	4.6	-	-	Vertical	PK	NA
3799.8285	-49.61	-48.98	0.6	-13.0	36.0	Vertical	PK	PASS
5713.6734	-53.29	-46.73	6.6	-13.0	33.7	Vertical	PK	PASS
9496.9399	-50.02	-32.99	17.0	-13.0	20.0	Vertical	PK	PASS
11400.216	-59.48	-38.64	20.8	-13.0	25.6	Vertical	PK	PASS

LTE Band 4

Plot for Low Channel

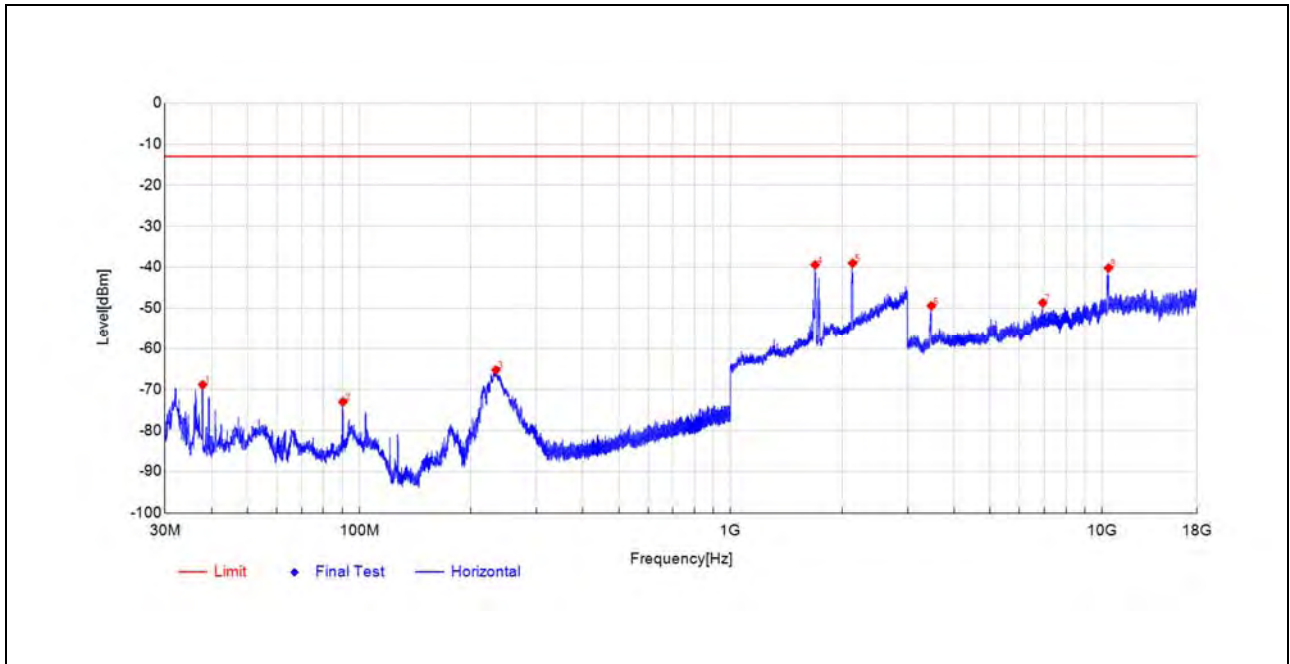


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-51.52	-66.79	-15.3	-13.0	53.8	Horizontal	PK	PASS
237.5904	-50.26	-66.07	-15.8	-13.0	53.1	Horizontal	PK	PASS
1698.9398	-31.58	-28.32	3.3	-13.0	15.3	Horizontal	PK	PASS
2127.8256	-46.77	-40.78	6.0	-	-	Horizontal	PK	NA
3431.2045	-49.50	-49.03	0.5	-13.0	36.0	Horizontal	PK	PASS
5149.5928	-57.51	-51.91	5.6	-13.0	38.9	Horizontal	PK	PASS
6898.1159	-61.09	-49.53	11.6	-13.0	36.5	Horizontal	PK	PASS
10320.172	-58.06	-39.49	18.6	-13.0	26.5	Horizontal	PK	PASS

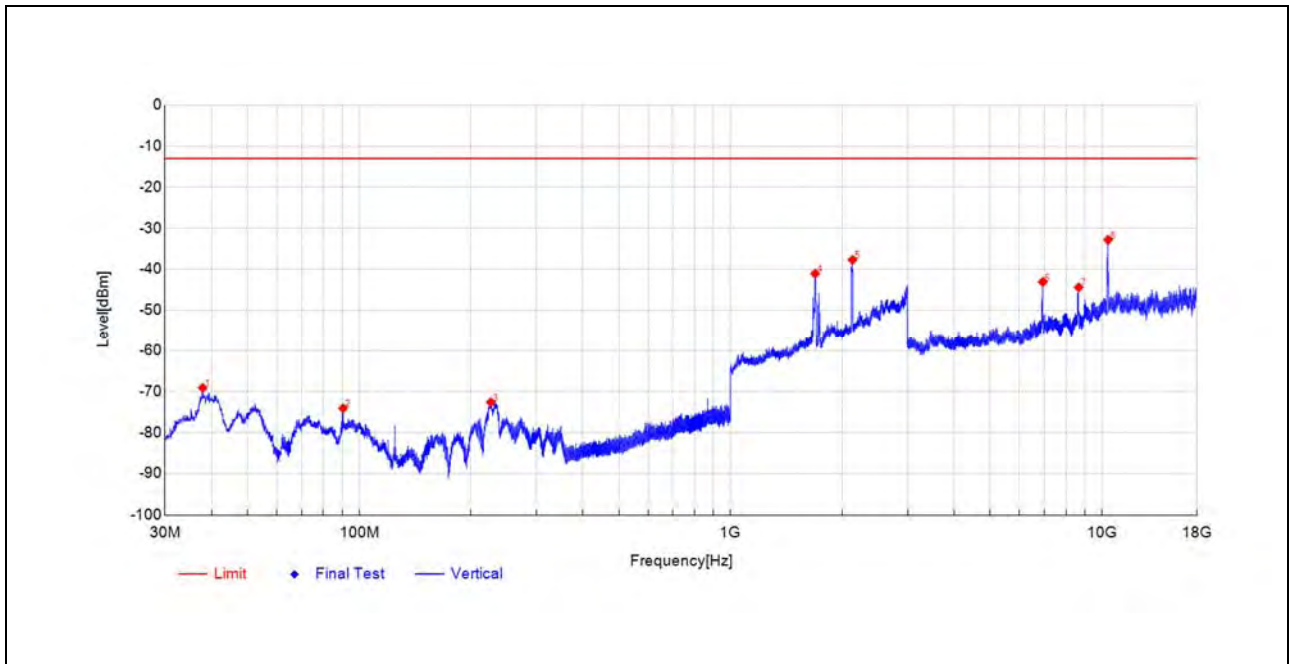


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
38.0514	-48.13	-70.68	-22.6	-13.0	57.7	Vertical	PK	PASS
233.6617	-53.79	-72.65	-18.9	-13.0	59.7	Vertical	PK	PASS
1700.14	-34.35	-30.88	3.5	-13.0	17.9	Vertical	PK	PASS
2128.2256	-43.72	-37.73	6.0	-	-	Vertical	PK	NA
5155.5937	-58.36	-53.21	5.2	-13.0	40.2	Vertical	PK	PASS
6879.8752	-55.59	-44.78	10.8	-13.0	31.8	Vertical	PK	PASS
8591.6237	-59.89	-45.93	14.0	-13.0	32.9	Vertical	PK	PASS
10319.212	-54.62	-35.77	18.9	-13.0	22.8	Vertical	PK	PASS

Plot for Mid Channel

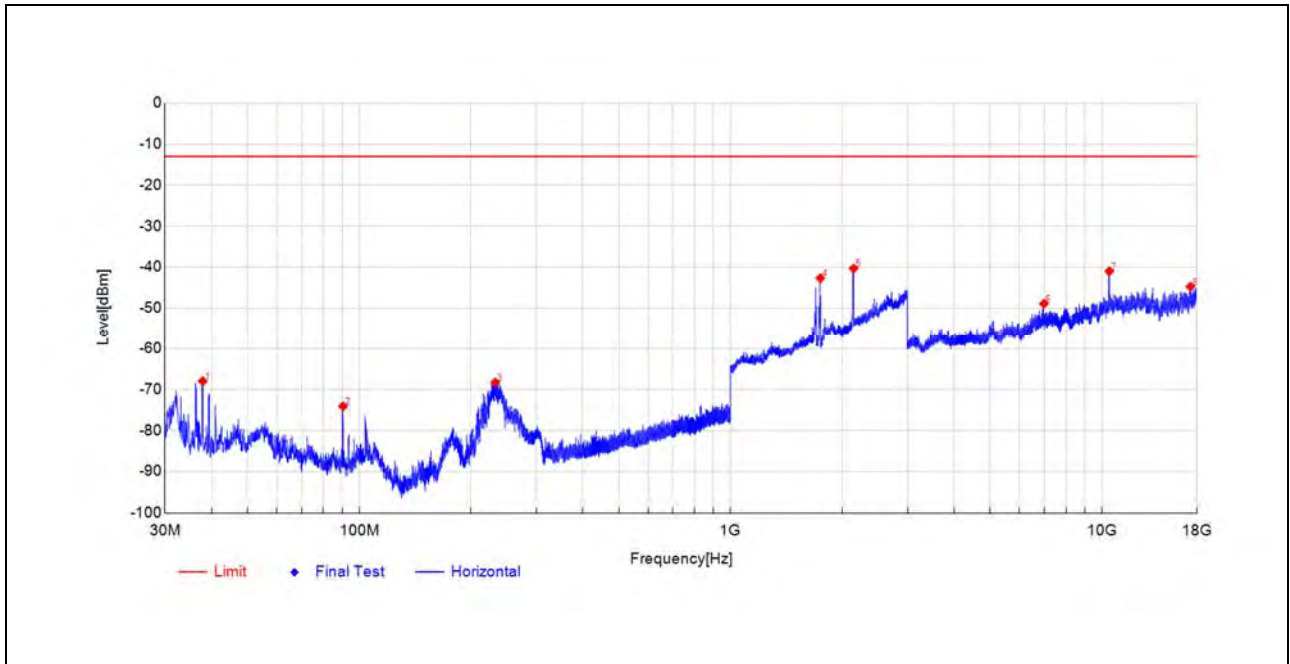


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-53.59	-68.86	-15.3	-13.0	55.9	Horizontal	PK	PASS
90.3855	-49.70	-73.05	-23.4	-13.0	60.1	Horizontal	PK	PASS
233.4677	-49.77	-65.26	-15.5	-13.0	52.3	Horizontal	PK	PASS
1689.7379	-42.10	-39.40	2.7	-13.0	26.4	Horizontal	PK	PASS
2131.0262	-45.03	-39.01	6.0	-	-	Horizontal	PK	NA
3474.0677	-50.25	-49.42	0.8	-13.0	36.4	Horizontal	PK	PASS
6929.7972	-60.25	-48.70	11.6	-13.0	35.7	Horizontal	PK	PASS
10419.056	-59.37	-40.19	19.2	-13.0	27.2	Horizontal	PK	PASS

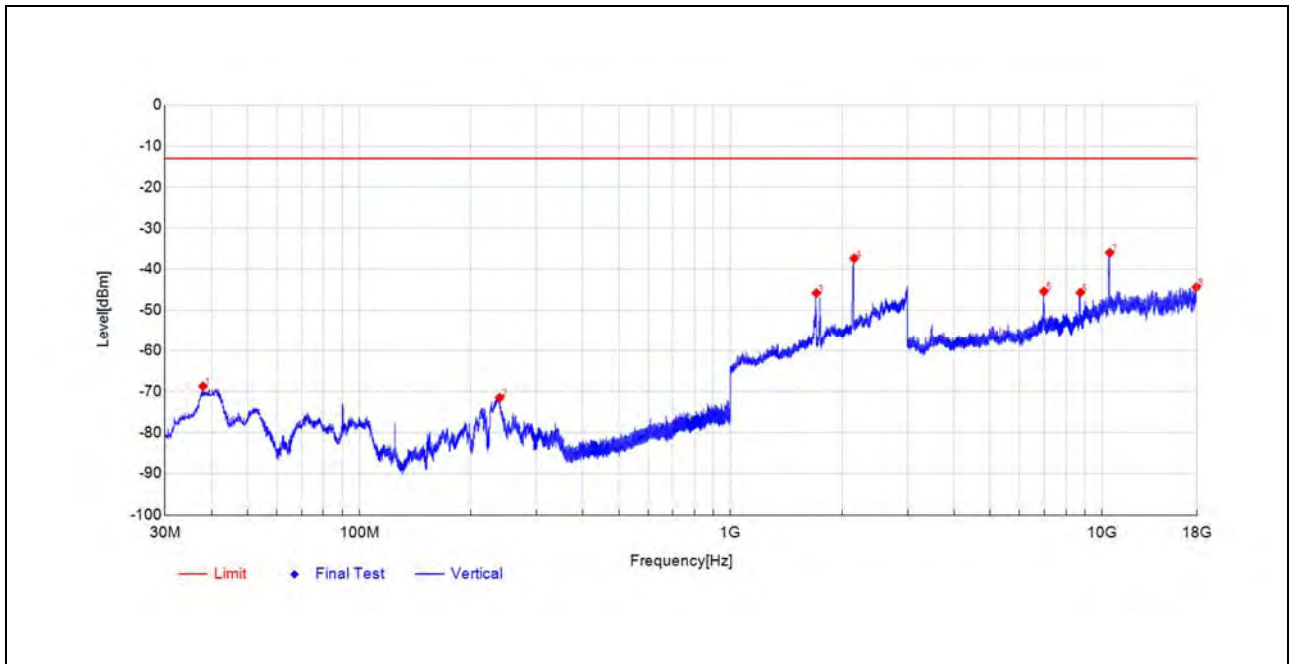


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-46.52	-69.11	-22.6	-13.0	56.1	Vertical	PK	PASS
90.4825	-51.87	-74.12	-22.3	-13.0	61.1	Vertical	PK	PASS
226.2893	-53.35	-72.65	-19.3	-13.0	59.7	Vertical	PK	PASS
1689.7379	-44.03	-41.06	3.0	-13.0	28.1	Vertical	PK	PASS
2131.0262	-43.70	-37.68	6.0	-	-	Vertical	PK	NA
6929.7972	-53.99	-43.07	10.9	-13.0	30.1	Vertical	PK	PASS
8661.2264	-58.51	-44.39	14.1	-13.0	31.4	Vertical	PK	PASS
10394.575	-52.04	-32.81	19.2	-13.0	19.8	Vertical	PK	PASS

Plot for High Channel



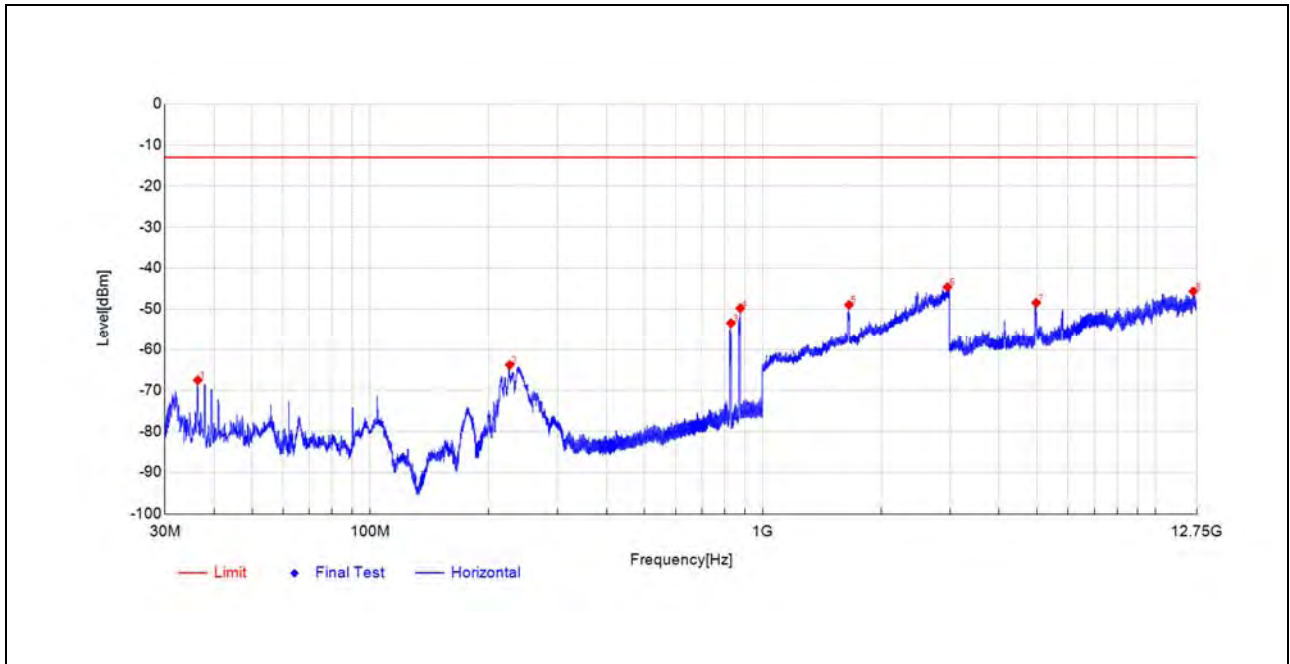
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-52.72	-67.99	-15.3	-13.0	55.0	Horizontal	PK	PASS
90.434	-50.76	-74.11	-23.4	-13.0	61.1	Horizontal	PK	PASS
232.4976	-52.91	-68.32	-15.4	-13.0	55.3	Horizontal	PK	PASS
1745.3491	-45.60	-42.64	3.0	-	-	Horizontal	PK	NA
2143.8288	-46.31	-40.28	6.0	-	-	Horizontal	PK	NA
6979.7192	-60.40	-48.88	11.5	-13.0	35.9	Horizontal	PK	PASS
10469.458	-60.25	-40.96	19.3	-13.0	28.0	Horizontal	PK	PASS
17313.572	-68.86	-44.74	24.1	-13.0	31.7	Horizontal	PK	PASS



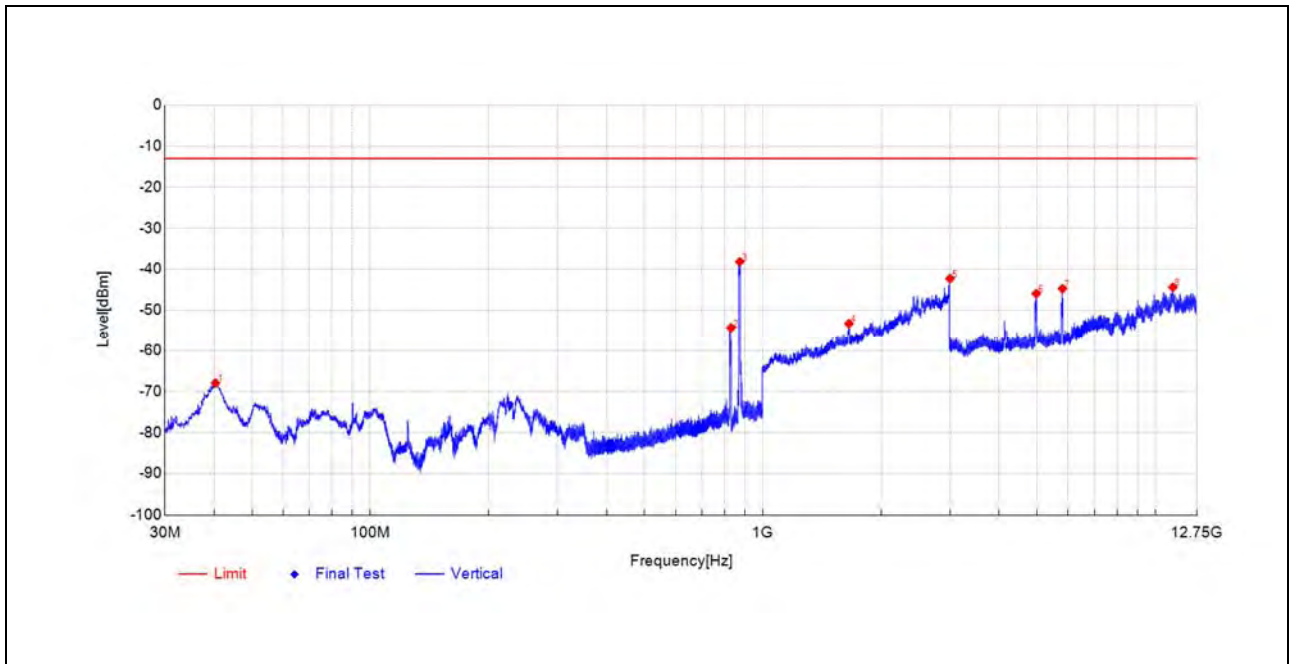
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9544	-46.17	-68.75	-22.6	-13.0	55.8	Vertical	PK	PASS
238.7059	-52.80	-71.52	-18.7	-13.0	58.5	Vertical	PK	PASS
1702.5405	-49.29	-45.80	3.5	-13.0	32.8	Vertical	PK	PASS
2151.8304	-43.06	-37.35	5.7	-	-	Vertical	PK	NA
6980.1992	-56.43	-45.38	11.1	-13.0	32.4	Vertical	PK	PASS
8749.55	-60.19	-45.68	14.5	-13.0	32.7	Vertical	PK	PASS
10497.779	-55.53	-35.96	19.6	-13.0	23.0	Vertical	PK	PASS
17952.478	-68.64	-44.35	24.3	-13.0	31.4	Vertical	PK	PASS

LTE Band 5

Plot for Low Channel

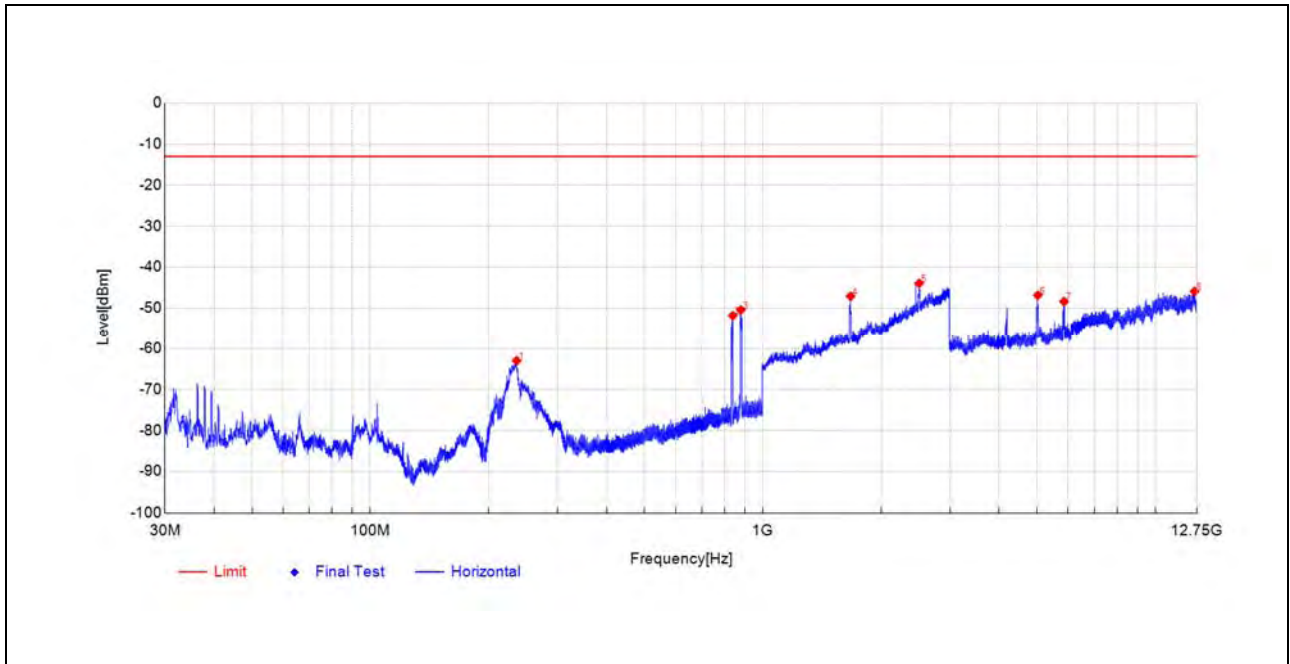


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3538	-52.29	-67.50	-15.2	-13.0	54.5	Horizontal	PK	PASS
226.4348	-48.87	-63.82	-15.0	-13.0	50.8	Horizontal	PK	PASS
829.4655	-47.70	-53.42	-5.7	-	-	Horizontal	PK	NA
876.4158	-44.98	-49.77	-4.8	-	-	Horizontal	PK	NA
1657.7315	-51.44	-48.94	2.5	-13.0	35.9	Horizontal	PK	PASS
2953.5907	-59.68	-44.60	15.1	-13.0	31.6	Horizontal	PK	PASS
4973.9862	-54.00	-48.45	5.6	-13.0	35.5	Horizontal	PK	PASS
12499.9	-69.06	-45.63	23.4	-13.0	32.6	Horizontal	PK	PASS

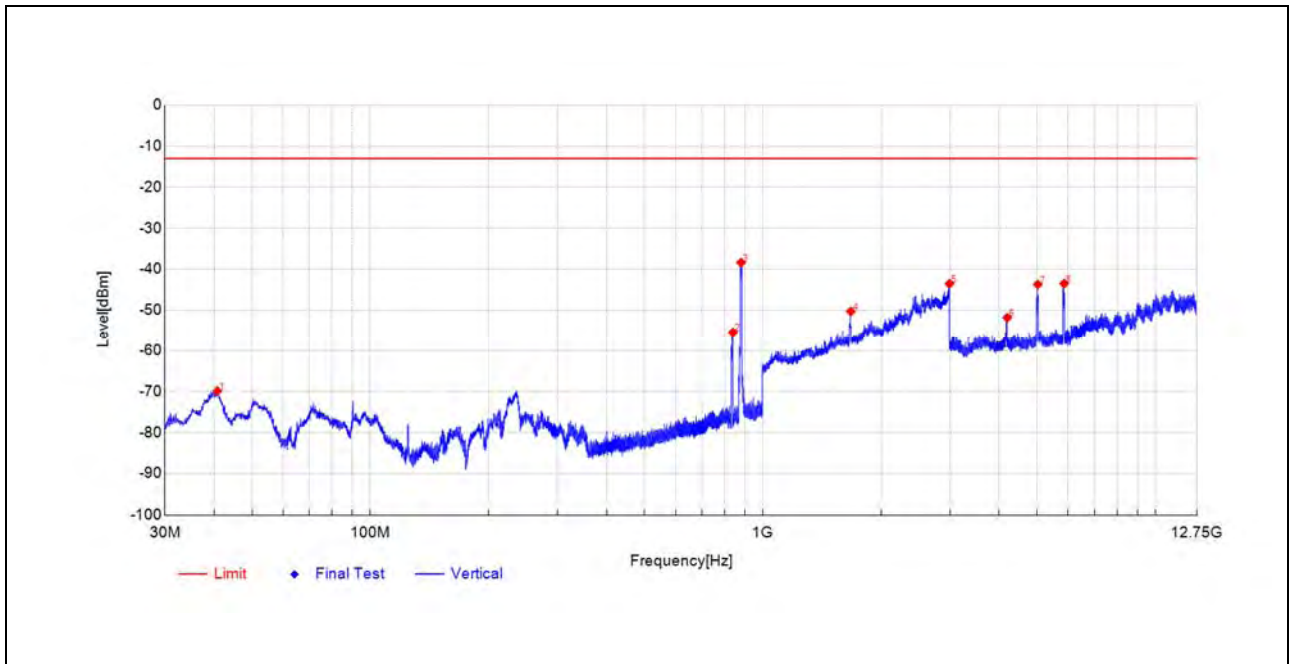


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.331	-46.21	-67.94	-21.7	-13.0	54.9	Vertical	PK	PASS
830.2415	-48.33	-54.30	-6.0	-	-	Vertical	PK	NA
873.6997	-33.44	-38.14	-4.7	-	-	Vertical	PK	NA
1657.3315	-55.71	-53.26	2.5	-13.0	40.3	Vertical	PK	PASS
2997.9996	-59.33	-42.29	17.0	-13.0	29.3	Vertical	PK	PASS
4973.9862	-51.09	-45.96	5.1	-13.0	33.0	Vertical	PK	PASS
5801.8026	-51.26	-44.72	6.5	-13.0	31.7	Vertical	PK	PASS
11089.979	-66.73	-44.36	22.4	-13.0	31.4	Vertical	PK	PASS

Plot for Mid Channel

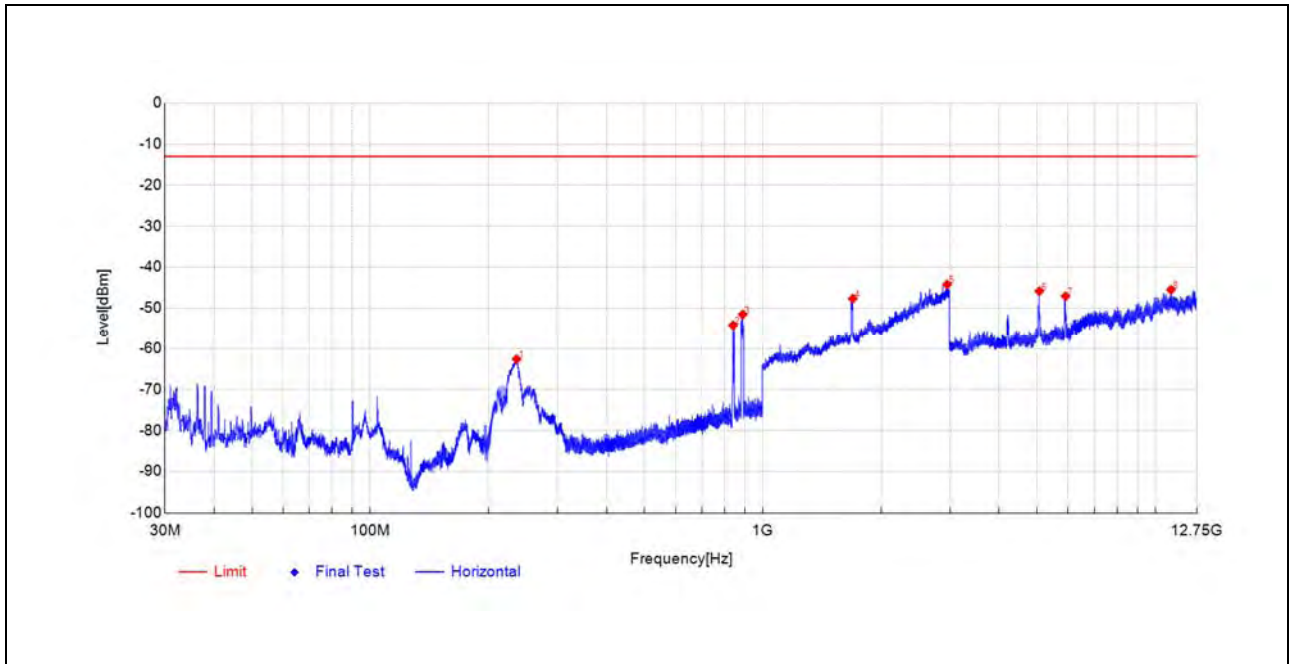


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
235.9413	-47.76	-63.01	-15.3	-13.0	50.0	Horizontal	PK	PASS
838.5839	-46.34	-51.81	-5.5	-	-	Horizontal	PK	NA
879.1805	-45.64	-50.40	-4.8	-	-	Horizontal	PK	NA
1673.7347	-49.58	-47.07	2.5	-13.0	34.1	Horizontal	PK	PASS
2501.5003	-53.79	-43.91	9.9	-13.0	30.9	Horizontal	PK	PASS
5019.326	-52.92	-46.83	6.1	-13.0	33.8	Horizontal	PK	PASS
5854.4552	-55.95	-48.35	7.6	-13.0	35.4	Horizontal	PK	PASS
12593.504	-69.12	-45.88	23.2	-13.0	32.9	Horizontal	PK	PASS

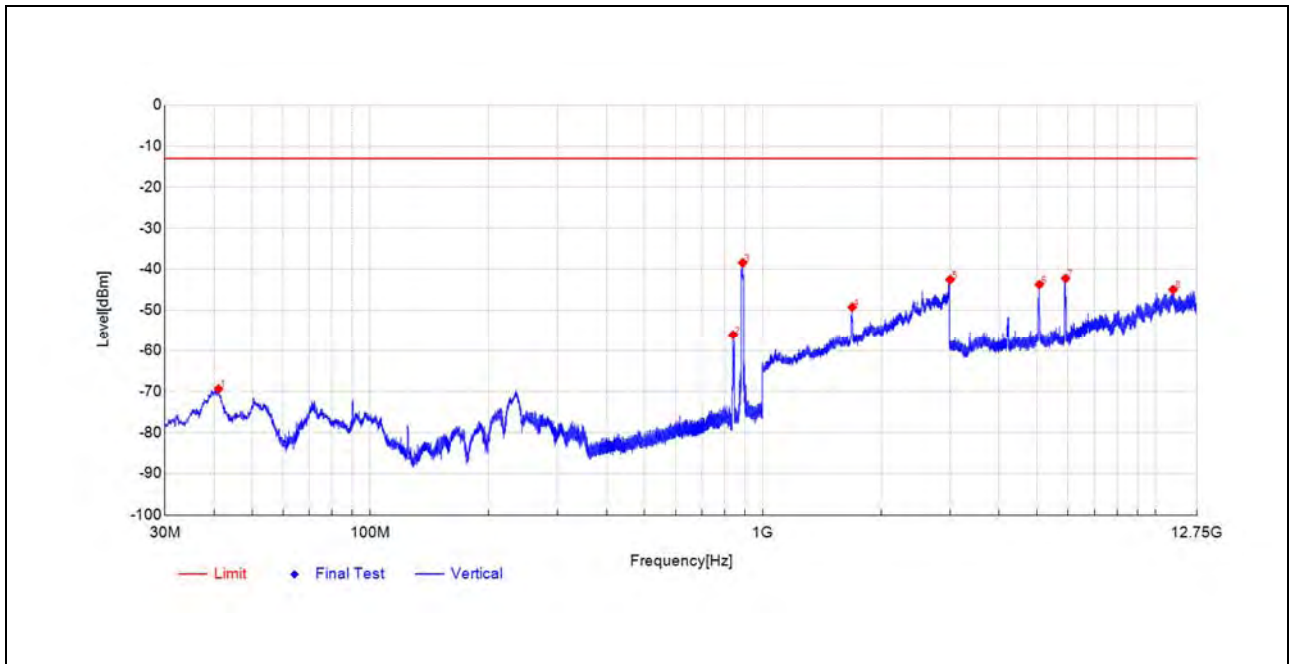


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.7675	-48.33	-69.91	-21.6	-13.0	56.9	Vertical	PK	PASS
839.554	-49.67	-55.42	-5.8	-	-	Vertical	PK	NA
880.2475	-33.88	-38.36	-4.5	-	-	Vertical	PK	NA
1676.1352	-53.09	-50.27	2.8	-13.0	37.3	Vertical	PK	PASS
2990.3981	-59.71	-43.51	16.2	-13.0	30.5	Vertical	PK	PASS
4193.9472	-54.10	-51.81	2.3	-13.0	38.8	Vertical	PK	PASS
5018.3509	-49.21	-43.69	5.5	-13.0	30.7	Vertical	PK	PASS
5855.9178	-50.14	-43.49	6.7	-13.0	30.5	Vertical	PK	PASS

Plot for High Channel



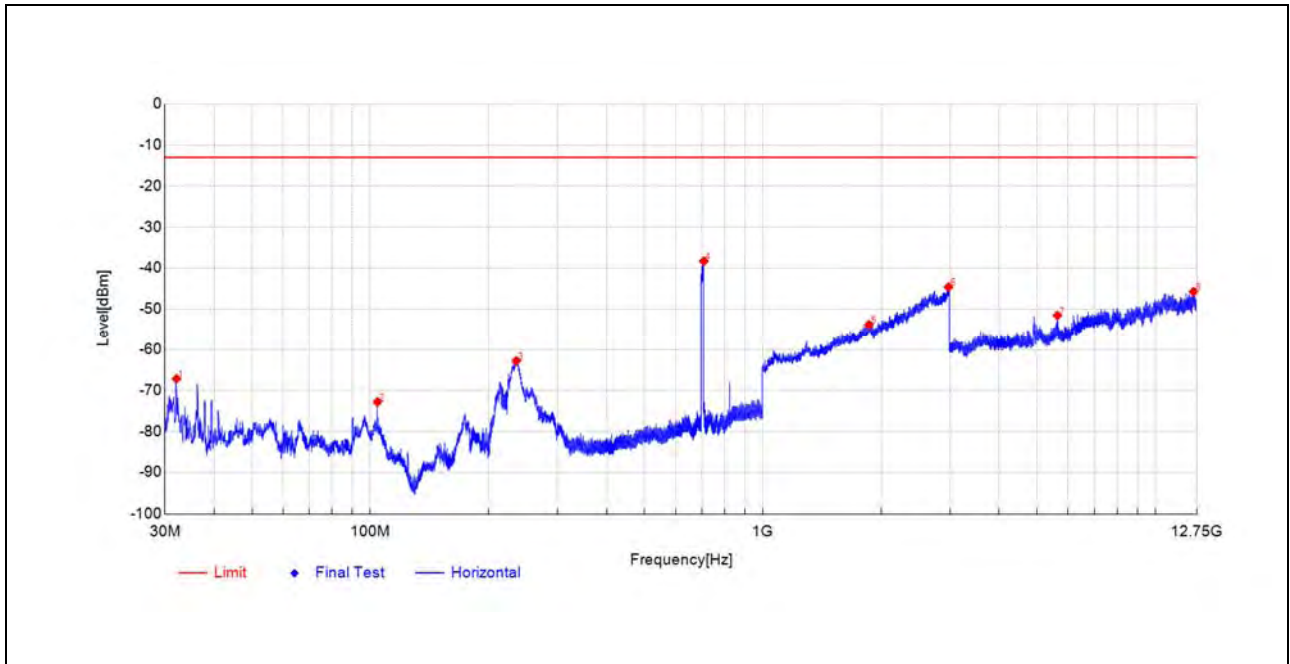
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
235.9413	-47.36	-62.61	-15.3	-13.0	49.6	Horizontal	PK	PASS
840.039	-48.74	-54.17	-5.4	-	-	Horizontal	PK	NA
888.5414	-46.81	-51.52	-4.7	-	-	Horizontal	PK	NA
1695.7391	-50.54	-47.65	2.9	-13.0	34.7	Horizontal	PK	PASS
2948.3897	-59.01	-44.21	14.8	-13.0	31.2	Horizontal	PK	PASS
5064.1782	-51.92	-45.84	6.1	-13.0	32.8	Horizontal	PK	PASS
5907.5954	-54.85	-47.03	7.8	-13.0	34.0	Horizontal	PK	PASS
10960.298	-66.46	-45.49	21.0	-13.0	32.5	Horizontal	PK	PASS



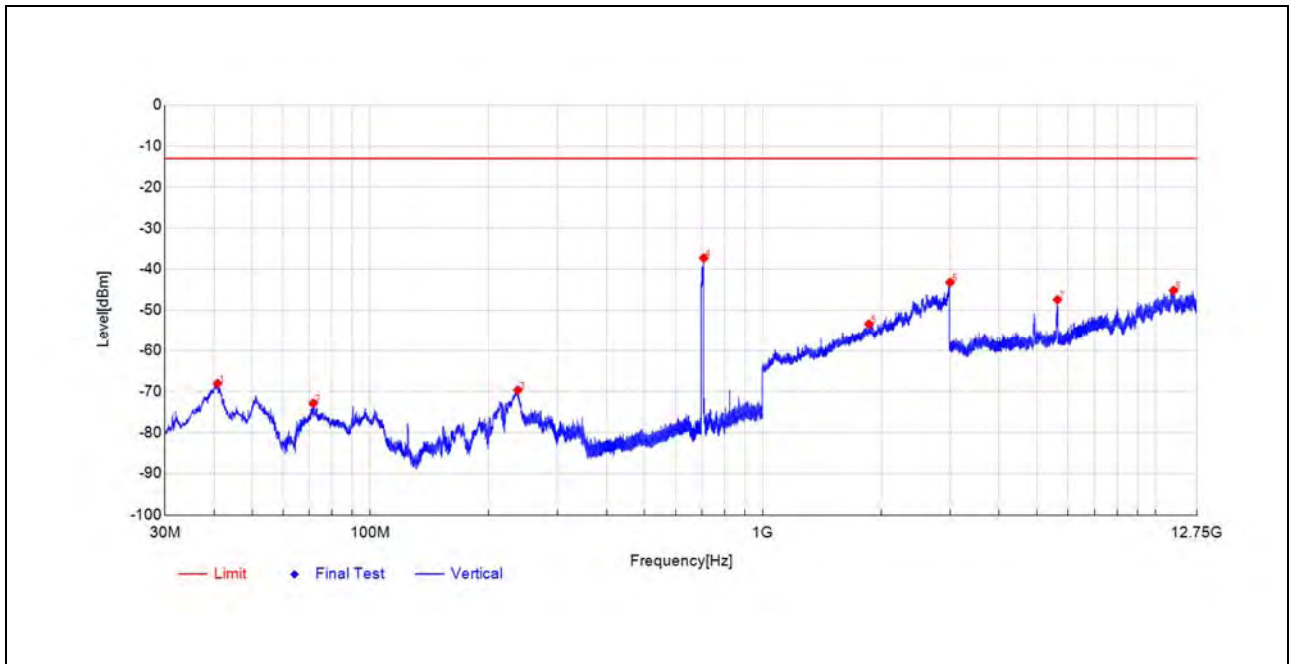
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
41.0586	-47.91	-69.40	-21.5	-13.0	56.4	Vertical	PK	PASS
840.136	-50.39	-56.12	-5.7	-	-	Vertical	PK	NA
888.4929	-33.97	-38.42	-4.5	-	-	Vertical	PK	NA
1690.138	-52.26	-49.24	3.0	-13.0	36.2	Vertical	PK	PASS
3000	-59.79	-42.53	17.3	-13.0	29.5	Vertical	PK	PASS
5063.6907	-49.20	-43.71	5.5	-13.0	30.7	Vertical	PK	PASS
5908.0829	-49.01	-42.22	6.8	-13.0	29.2	Vertical	PK	PASS
11099.73	-67.37	-44.96	22.4	-13.0	32.0	Vertical	PK	PASS

**LTE Band 12**

Plot for Low Channel

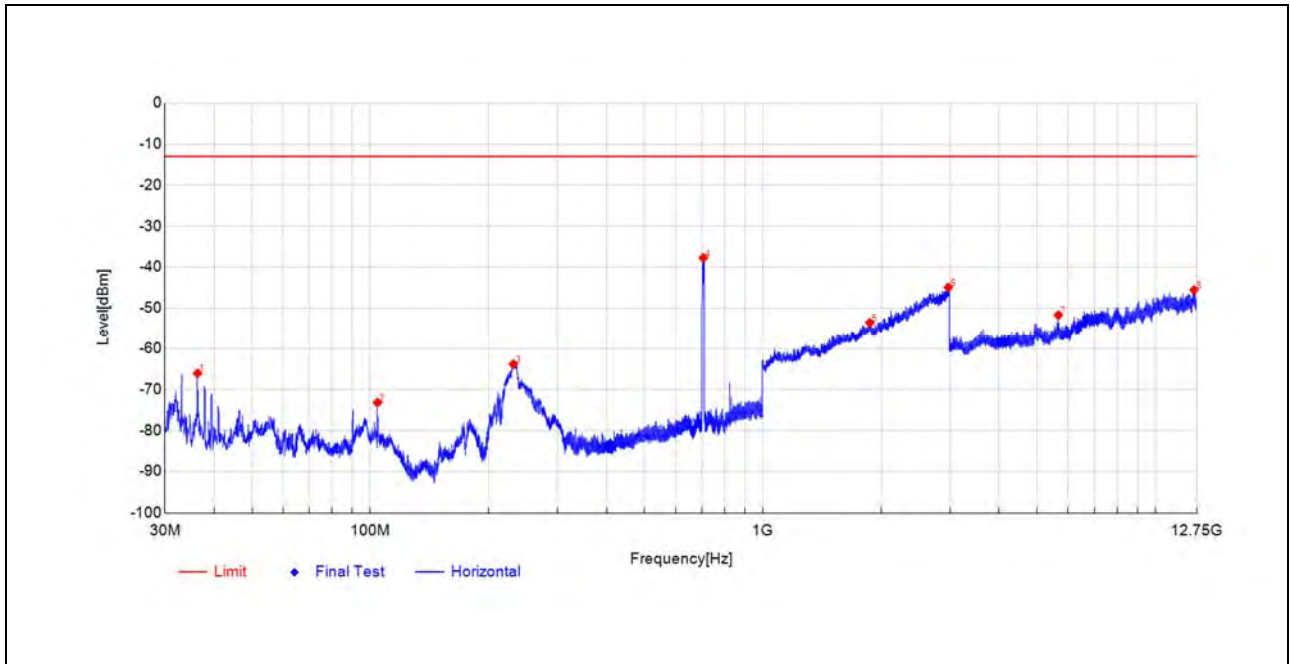


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.0856	-52.16	-67.20	-15.0	-13.0	54.2	Horizontal	PK	PASS
104.3057	-50.38	-72.82	-22.4	-13.0	59.8	Horizontal	PK	PASS
235.6503	-47.79	-62.80	-15.0	-13.0	49.8	Horizontal	PK	PASS
707.5304	-30.45	-38.29	-7.8	-	-	Horizontal	PK	NA
1862.9726	-59.06	-53.82	5.2	-13.0	40.8	Horizontal	PK	PASS
2971.5943	-59.51	-44.59	14.9	-13.0	31.6	Horizontal	PK	PASS
5632.1441	-58.57	-51.53	7.0	-13.0	38.5	Horizontal	PK	PASS
12515.988	-69.13	-45.73	23.4	-13.0	32.7	Horizontal	PK	PASS

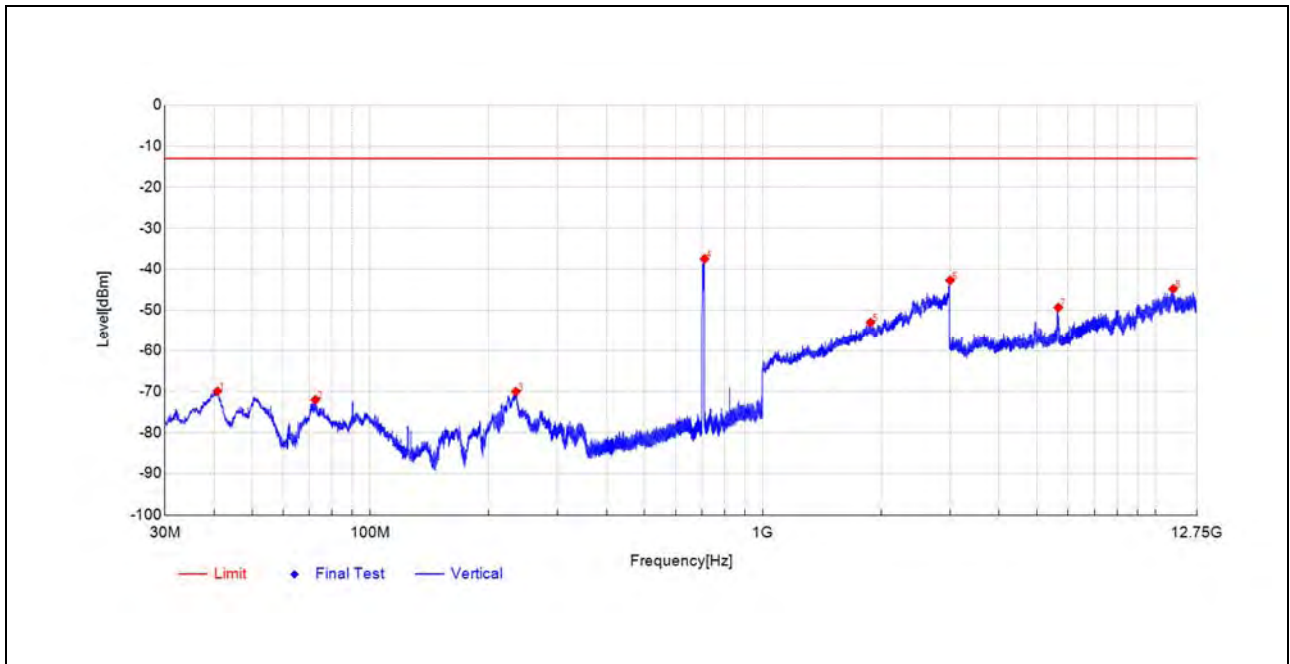


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.816	-46.67	-68.09	-21.4	-13.0	55.1	Vertical	PK	PASS
71.5666	-51.85	-72.90	-21.1	-13.0	59.9	Vertical	PK	PASS
237.6874	-51.60	-69.71	-18.1	-13.0	56.7	Vertical	PK	PASS
707.7729	-29.29	-37.25	-8.0	-	-	Vertical	PK	NA
1864.5729	-58.53	-53.37	5.2	-13.0	40.4	Vertical	PK	PASS
2998.7998	-60.76	-43.18	17.6	-13.0	30.2	Vertical	PK	PASS
5631.6566	-54.12	-47.40	6.7	-13.0	34.4	Vertical	PK	PASS
11129.956	-67.15	-45.16	22.0	-13.0	32.2	Vertical	PK	PASS

Plot for Mid Channel

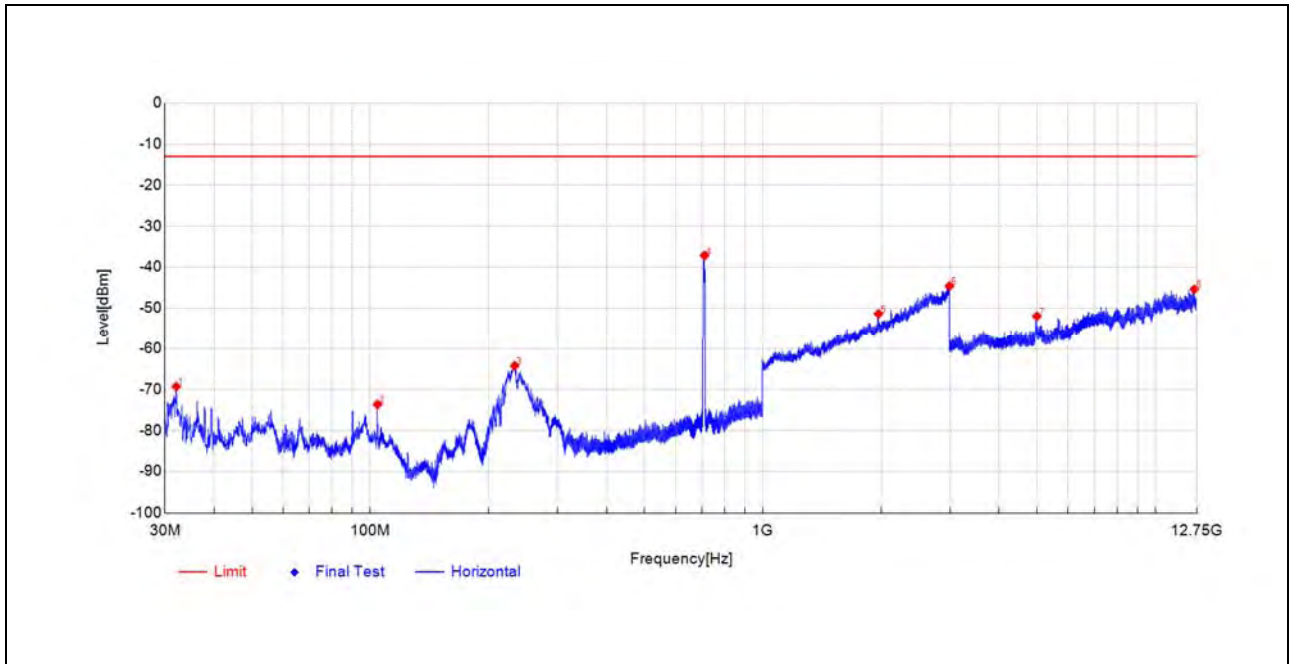


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3053	-51.00	-66.07	-15.1	-13.0	53.1	Horizontal	PK	PASS
104.3057	-50.76	-73.20	-22.4	-13.0	60.2	Horizontal	PK	PASS
231.4791	-49.16	-63.83	-14.7	-13.0	50.8	Horizontal	PK	PASS
705.3963	-29.79	-37.73	-7.9	-	-	Horizontal	PK	NA
1873.3747	-59.15	-53.54	5.6	-13.0	40.5	Horizontal	PK	PASS
2967.1934	-59.88	-44.92	15.0	-13.0	31.9	Horizontal	PK	PASS
5659.933	-58.90	-51.69	7.2	-13.0	38.7	Horizontal	PK	PASS
12554.990	-68.86	-45.55	23.3	-13.0	32.6	Horizontal	PK	PASS

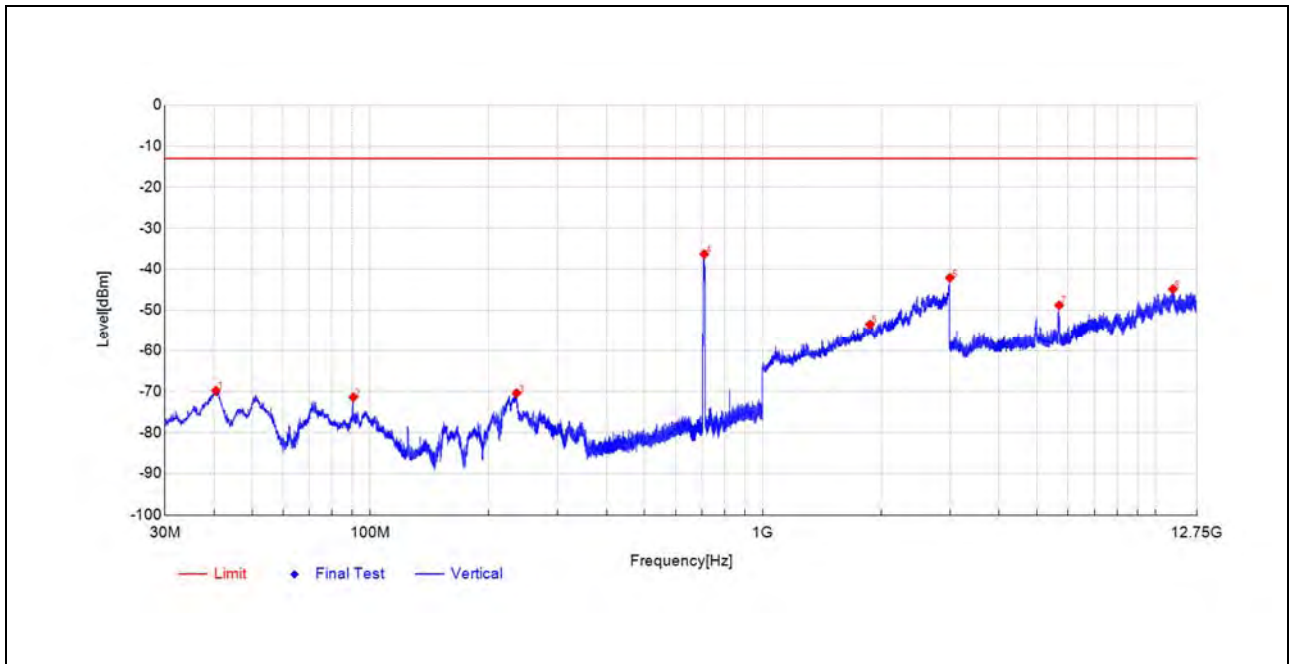


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.816	-48.52	-69.94	-21.4	-13.0	56.9	Vertical	PK	PASS
72.4396	-50.75	-72.03	-21.3	-13.0	59.0	Vertical	PK	PASS
234.8257	-51.88	-70.06	-18.2	-13.0	57.1	Vertical	PK	PASS
710.4405	-29.62	-37.45	-7.8	-	-	Vertical	PK	NA
1880.5761	-58.63	-52.97	5.7	-13.0	40.0	Vertical	PK	PASS
2998.3997	-60.22	-42.70	17.5	-13.0	29.7	Vertical	PK	PASS
5659.933	-55.97	-49.32	6.7	-13.0	36.3	Vertical	PK	PASS
11101.680	-67.16	-44.78	22.4	-13.0	31.8	Vertical	PK	PASS

Plot for High Channel



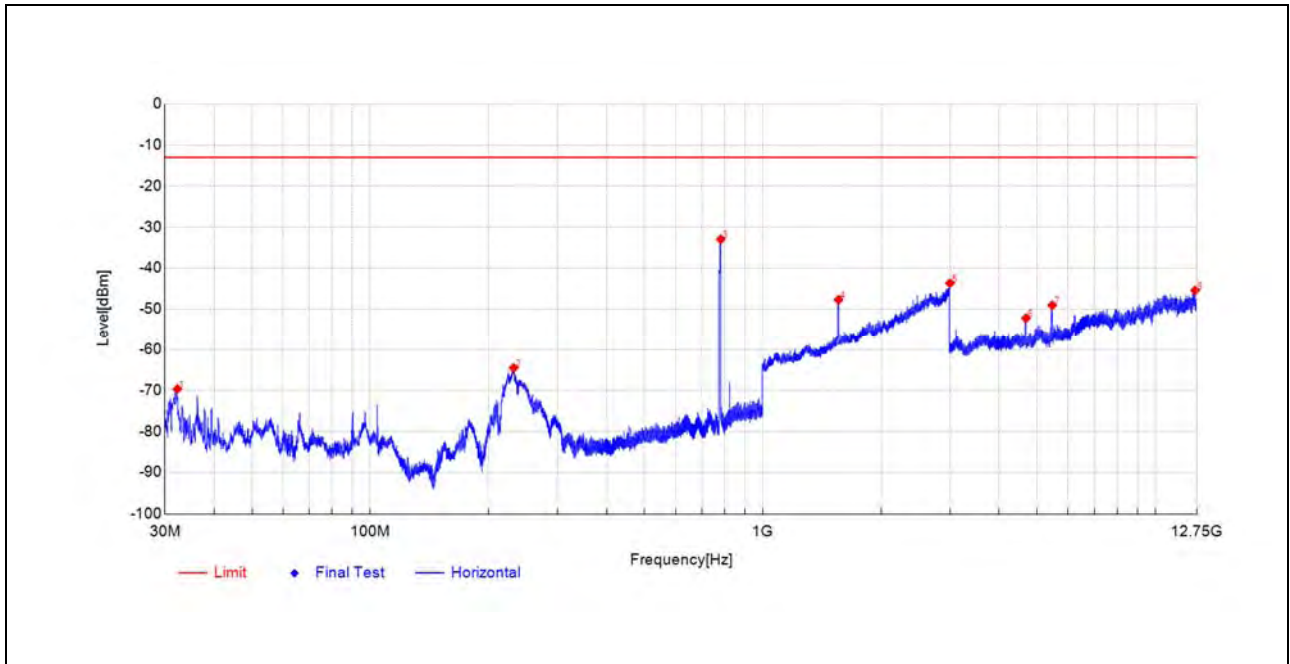
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.0371	-54.27	-69.31	-15.0	-13.0	56.3	Horizontal	PK	PASS
104.3057	-51.23	-73.67	-22.4	-13.0	60.7	Horizontal	PK	PASS
233.2737	-49.41	-64.23	-14.8	-13.0	51.2	Horizontal	PK	PASS
710.295	-29.45	-37.14	-7.7	-	-	Horizontal	PK	NA
1970.9942	-57.09	-51.36	5.7	-13.0	38.4	Horizontal	PK	PASS
2988.7978	-59.71	-44.58	15.1	-13.0	31.6	Horizontal	PK	PASS
4992.0246	-57.87	-51.94	5.9	-13.0	38.9	Horizontal	PK	PASS
12570.103	-68.66	-45.38	23.3	-13.0	32.4	Horizontal	PK	PASS



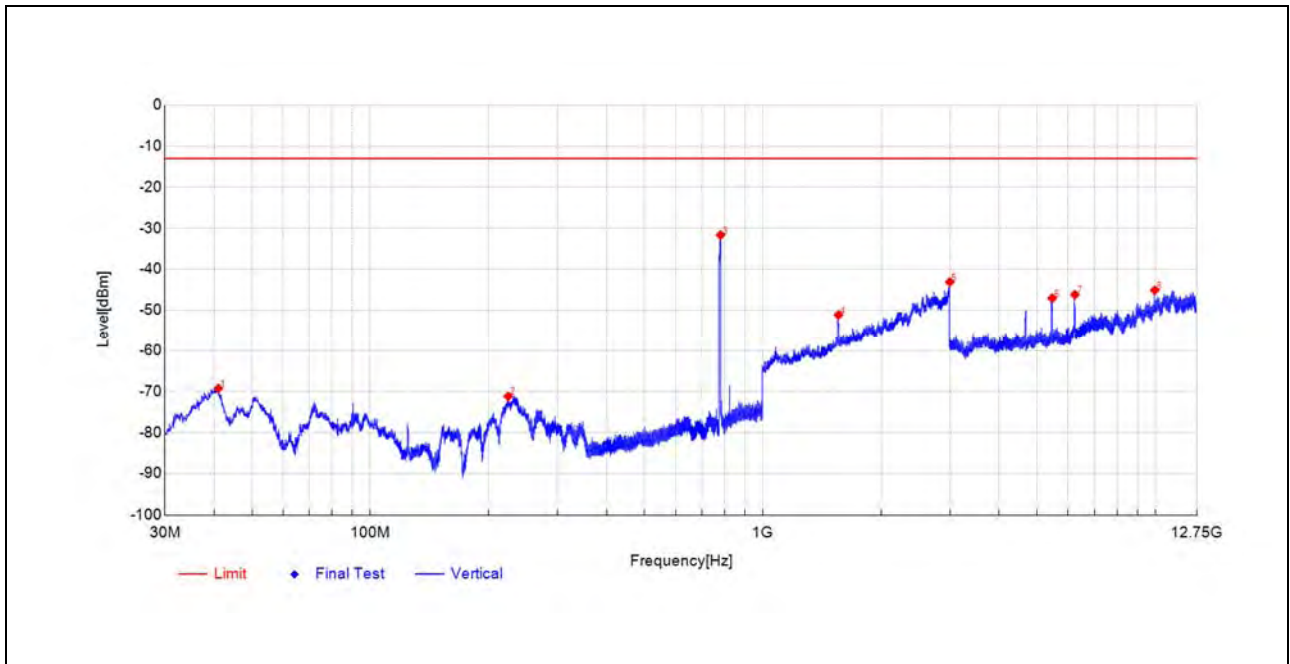
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.428	-48.25	-69.80	-21.6	-13.0	56.8	Vertical	PK	PASS
90.4825	-49.35	-71.42	-22.1	-13.0	58.4	Vertical	PK	PASS
235.8928	-52.28	-70.43	-18.2	-13.0	57.4	Vertical	PK	PASS
709.325	-28.42	-36.30	-7.9	-	-	Vertical	PK	NA
1875.3751	-58.98	-53.47	5.5	-13.0	40.5	Vertical	PK	PASS
2995.5991	-59.26	-42.08	17.2	-13.0	29.1	Vertical	PK	PASS
5688.2094	-55.33	-48.74	6.6	-13.0	35.7	Vertical	PK	PASS
11086.566	-67.18	-44.83	22.4	-13.0	31.8	Vertical	PK	PASS

**LTE Band 13**

Plot for Low Channel

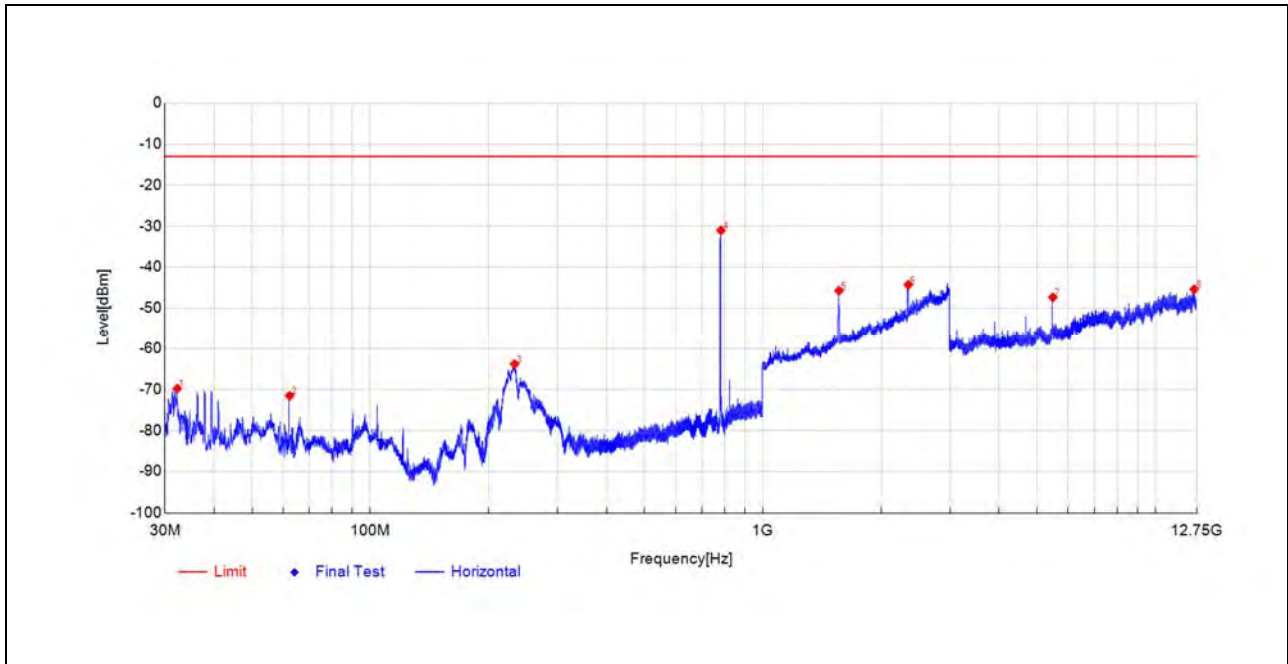


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.2311	-54.61	-69.66	-15.1	-13.0	56.7	Horizontal	PK	PASS
231.8671	-49.84	-64.55	-14.7	-13.0	51.6	Horizontal	PK	PASS
781.5451	-25.70	-32.95	-7.3	-	-	Horizontal	PK	NA
1559.3119	-50.17	-47.69	2.5	-13.0	34.7	Horizontal	PK	PASS
2998.7998	-59.12	-43.65	15.5	-13.0	30.7	Horizontal	PK	PASS
4681.9591	-55.67	-52.21	3.5	-13.0	39.2	Horizontal	PK	PASS
5464.4357	-55.33	-49.04	6.3	-13.0	36.0	Horizontal	PK	PASS
12631.531	-68.36	-45.41	23.0	-13.0	32.4	Horizontal	PK	PASS

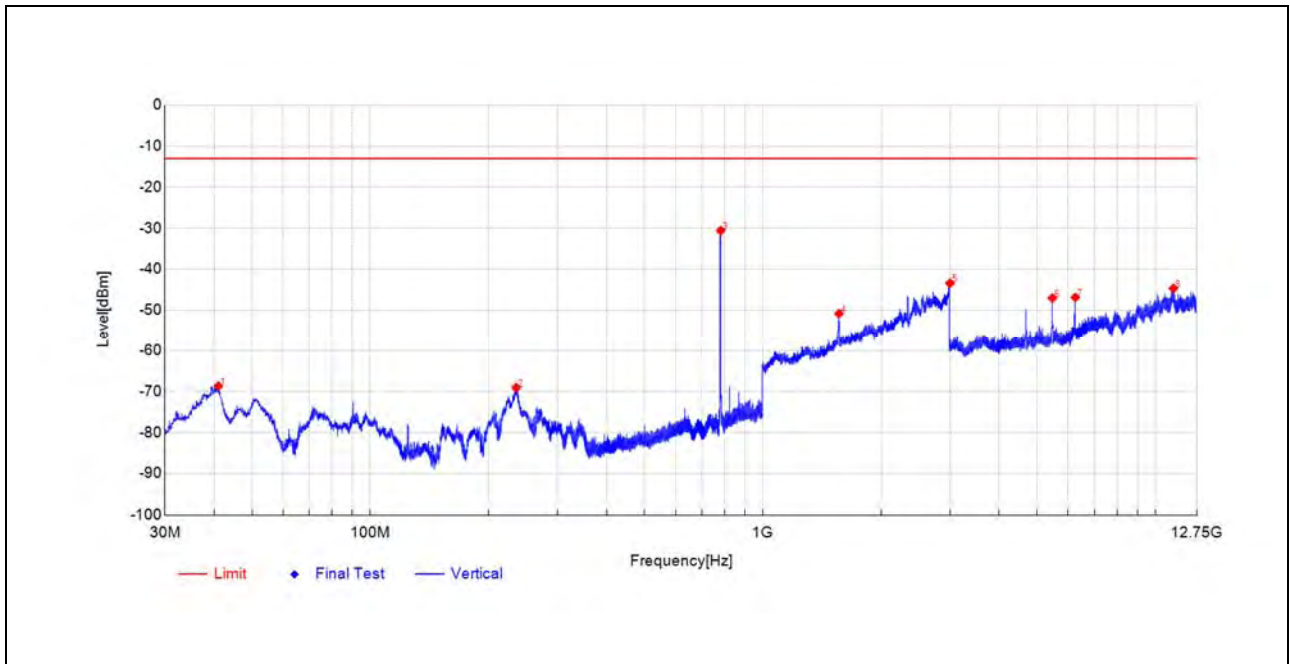


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
41.0101	-47.91	-69.27	-21.4	-13.0	56.3	Vertical	PK	PASS
224.5917	-52.40	-71.19	-18.8	-13.0	58.2	Vertical	PK	PASS
780.7205	-24.55	-31.64	-7.1	-	-	Vertical	PK	NA
1558.9118	-53.83	-51.15	2.7	-13.0	38.2	Vertical	PK	PASS
2994.3989	-60.11	-43.08	17.0	-13.0	30.1	Vertical	PK	PASS
5459.5605	-53.00	-47.05	6.0	-13.0	34.1	Vertical	PK	PASS
6240.5745	-55.27	-46.17	9.1	-13.0	33.2	Vertical	PK	PASS
9968.1859	-63.12	-45.10	18.0	-13.0	32.1	Vertical	PK	PASS

Plot for Mid Channel

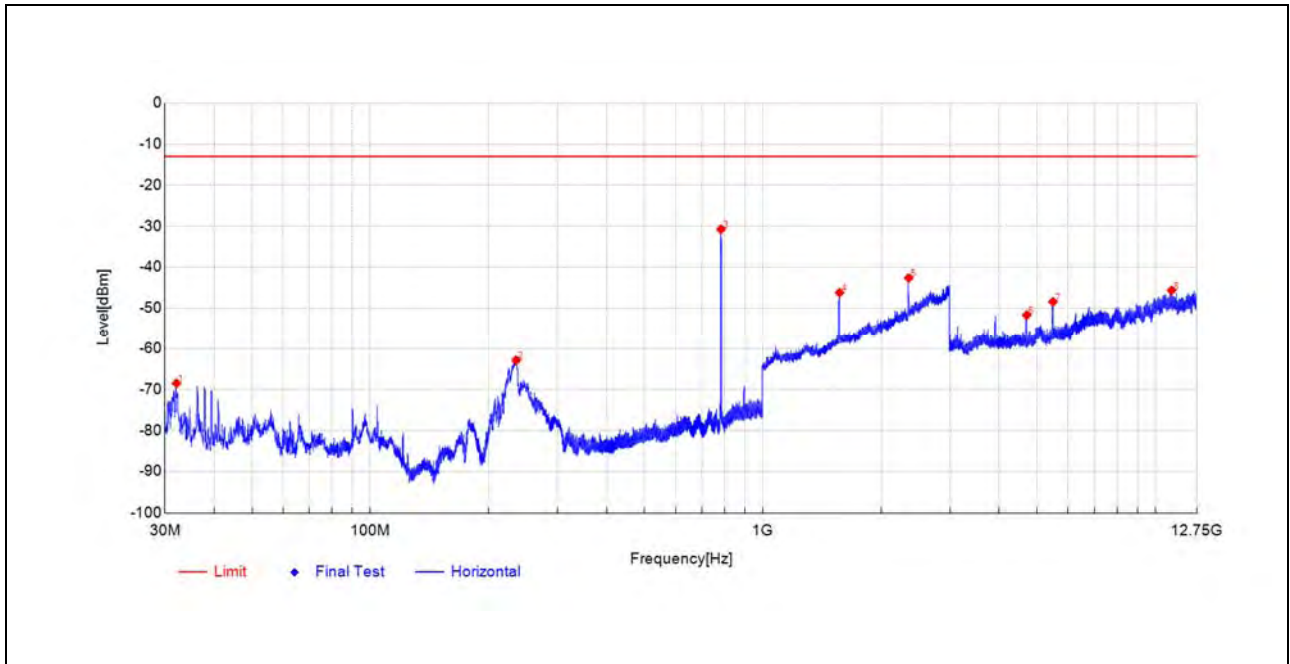


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.2311	-54.76	-69.81	-15.1	-13.0	56.8	Horizontal	PK	PASS
62.3026	-53.76	-71.57	-17.8	-13.0	58.6	Horizontal	PK	PASS
233.0312	-49.05	-63.85	-14.8	-13.0	50.9	Horizontal	PK	PASS
782.5636	-23.78	-31.02	-7.2	-	-	Horizontal	PK	NA
1563.7127	-48.20	-45.70	2.5	-13.0	32.7	Horizontal	PK	PASS
2347.8696	-52.83	-44.27	8.6	-13.0	31.3	Horizontal	PK	PASS
5481.9866	-53.70	-47.32	6.4	-13.0	34.3	Horizontal	PK	PASS
12562.790	-68.68	-45.38	23.3	-13.0	32.4	Horizontal	PK	PASS

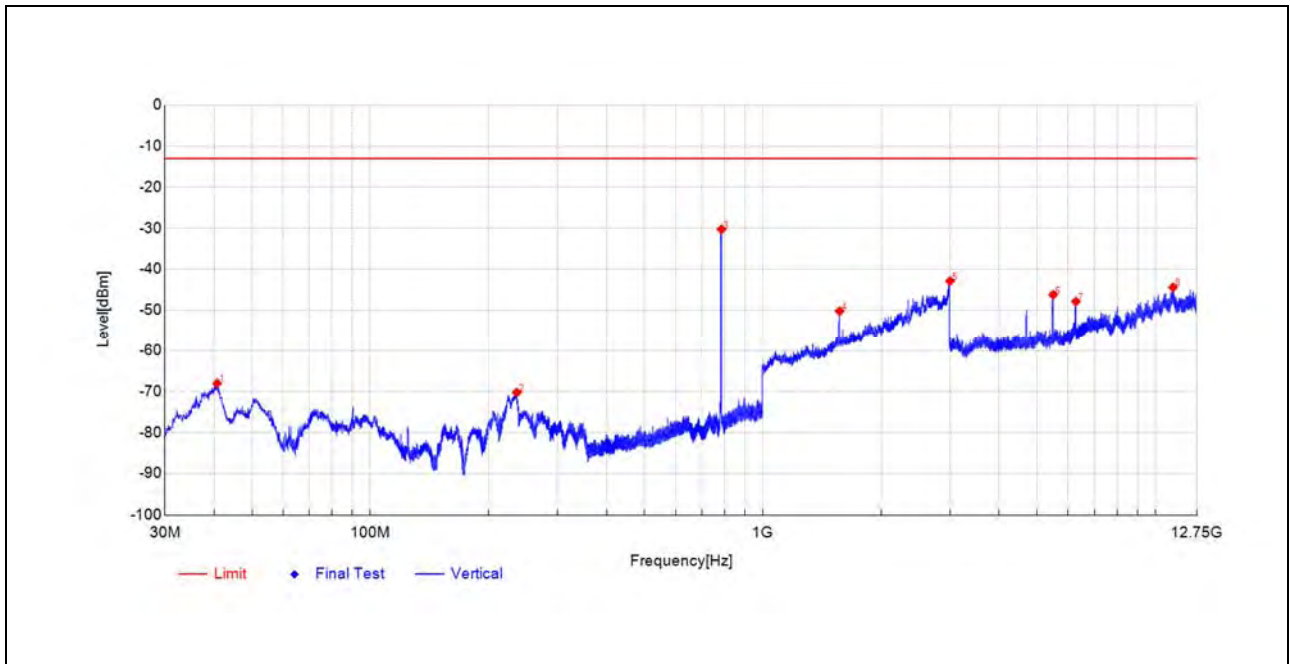


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
41.0101	-47.31	-68.67	-21.4	-13.0	55.7	Vertical	PK	PASS
235.4078	-50.91	-69.08	-18.2	-13.0	56.1	Vertical	PK	PASS
781.3026	-23.49	-30.57	-7.1	-	-	Vertical	PK	NA
1564.1128	-53.42	-50.82	2.6	-13.0	37.8	Vertical	PK	PASS
2999.1998	-61.01	-43.38	17.6	-13.0	30.4	Vertical	PK	PASS
5467.3609	-52.96	-47.02	5.9	-13.0	34.0	Vertical	PK	PASS
6255.6878	-55.83	-46.84	9.0	-13.0	33.8	Vertical	PK	PASS
11118.743	-66.81	-44.66	22.2	-13.0	31.7	Vertical	PK	PASS

Plot for High Channel



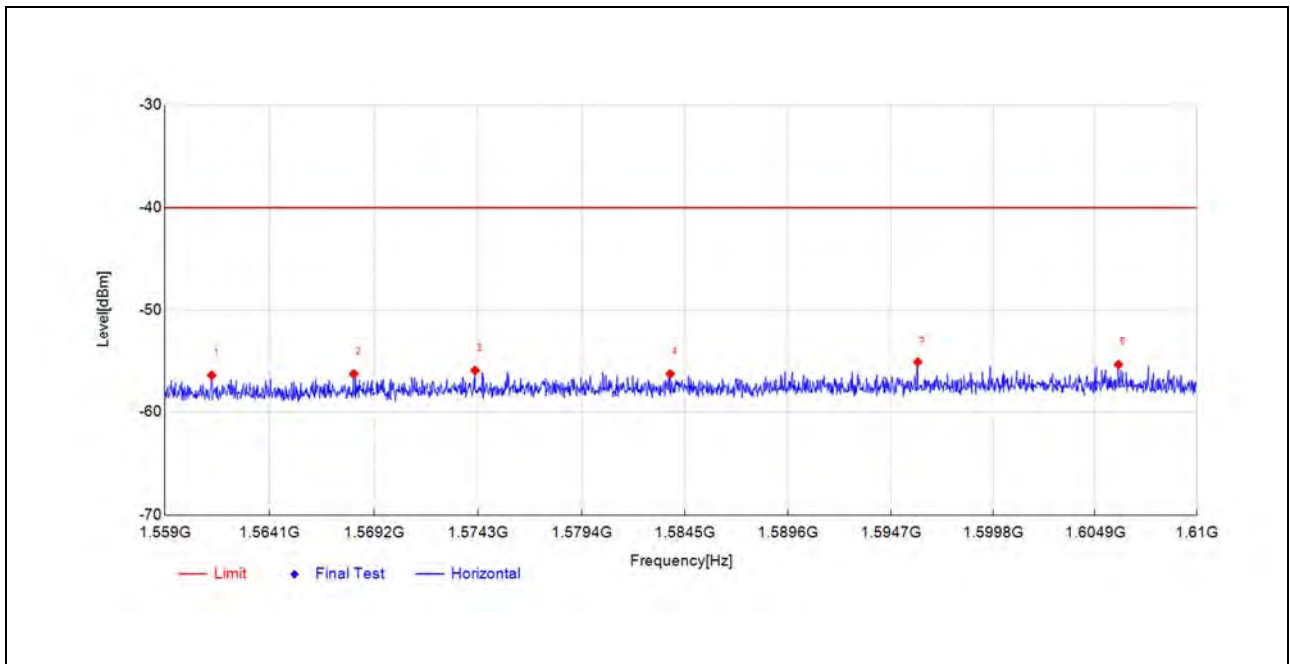
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.0856	-53.49	-68.53	-15.0	-13.0	55.5	Horizontal	PK	PASS
235.3108	-47.89	-62.88	-15.0	-13.0	49.9	Horizontal	PK	PASS
782.7091	-23.47	-30.71	-7.2	-	-	Horizontal	PK	NA
1569.7139	-48.68	-46.17	2.5	-13.0	33.2	Horizontal	PK	PASS
2354.2709	-51.42	-42.61	8.8	-13.0	29.6	Horizontal	PK	PASS
4701.9476	-55.22	-51.67	3.6	-13.0	38.7	Horizontal	PK	PASS
5485.8868	-54.81	-48.42	6.4	-13.0	35.4	Horizontal	PK	PASS
11000.275	-66.61	-45.64	21.0	-13.0	32.6	Horizontal	PK	PASS



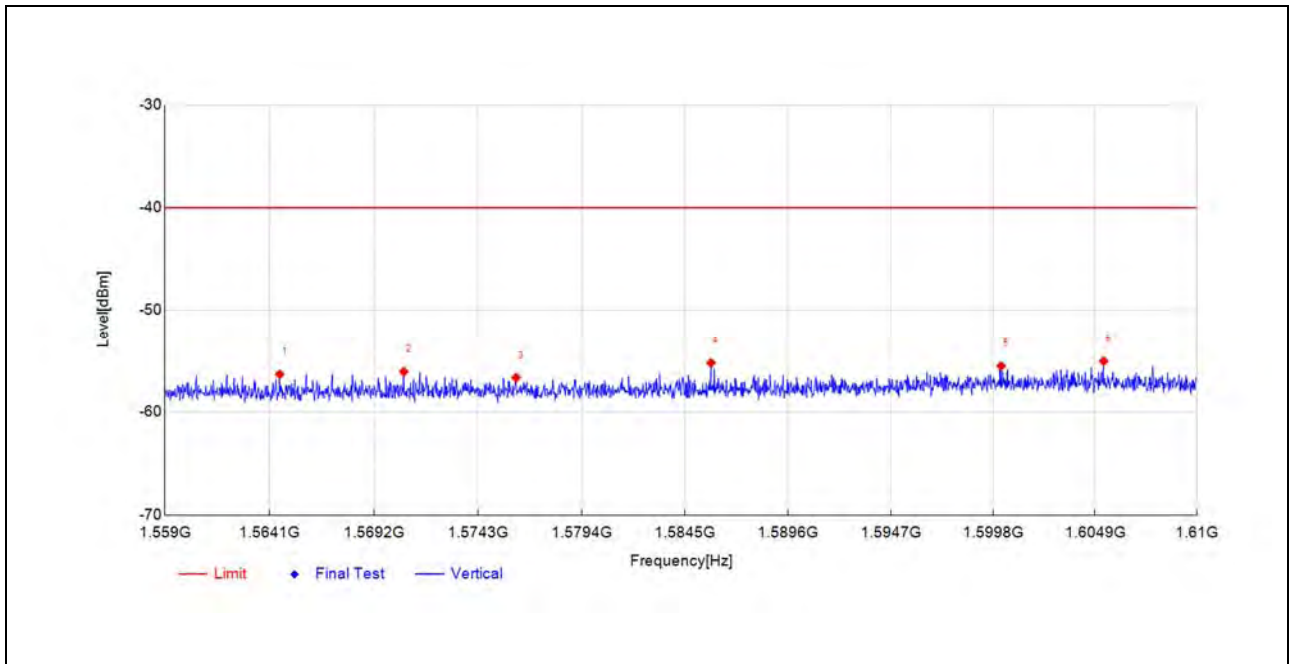
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.719	-46.58	-68.03	-21.5	-13.0	55.0	Vertical	PK	PASS
236.1838	-52.10	-70.24	-18.1	-13.0	57.2	Vertical	PK	PASS
784.6007	-23.25	-30.25	-7.0	-	-	Vertical	PK	NA
1568.9138	-52.70	-50.19	2.5	-13.0	37.2	Vertical	PK	PASS
2998.7998	-60.46	-42.88	17.6	-13.0	29.9	Vertical	PK	PASS
5491.7371	-52.11	-46.20	5.9	-13.0	33.2	Vertical	PK	PASS
6275.6763	-56.69	-47.85	8.8	-13.0	34.9	Vertical	PK	PASS
11097.779	-66.79	-44.39	22.4	-13.0	31.4	Vertical	PK	PASS



Plot for 1559MHz-1610MHz



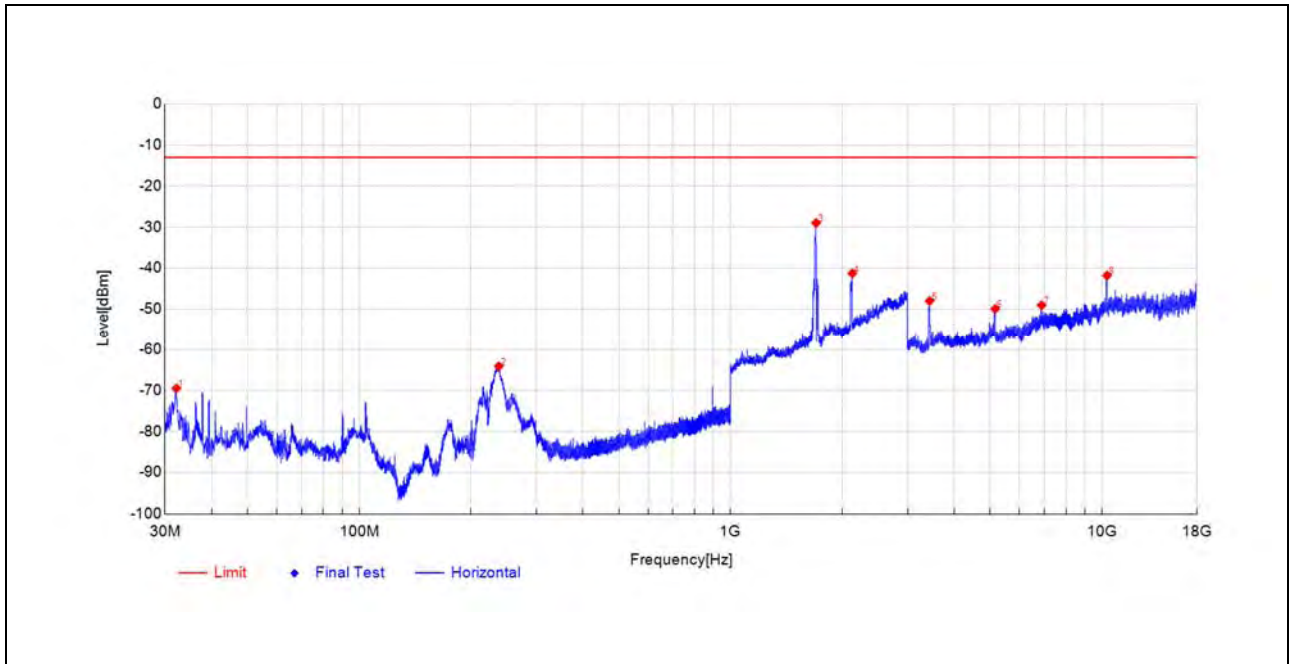
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1561.2706	-58.92	-56.43	2.5	-40.0	16.4	Horizontal	PK	PASS
1568.2101	-58.80	-56.30	2.5	-40.0	16.3	Horizontal	PK	PASS
1574.1546	-58.48	-55.96	2.5	-40.0	16.0	Horizontal	PK	PASS
1583.7729	-58.82	-56.29	2.5	-40.0	16.3	Horizontal	PK	PASS
1596.0445	-57.66	-55.14	2.5	-40.0	15.1	Horizontal	PK	PASS
1606.071	-57.92	-55.39	2.5	-40.0	15.4	Horizontal	PK	PASS



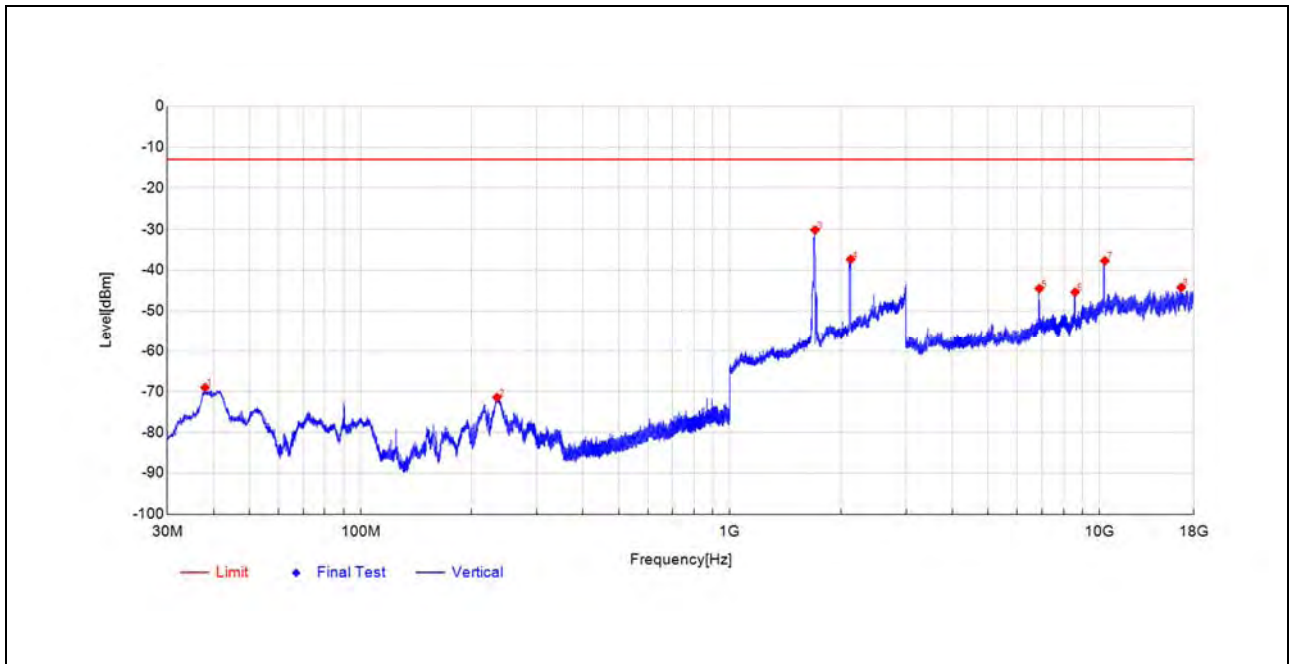
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1564.5873	-58.92	-56.33	2.6	-40.0	16.3	Vertical	PK	PASS
1570.6593	-58.56	-56.07	2.5	-40.0	16.1	Vertical	PK	PASS
1576.1701	-59.05	-56.66	2.4	-40.0	16.7	Vertical	PK	PASS
1585.7884	-57.63	-55.22	2.4	-40.0	15.2	Vertical	PK	PASS
1600.2031	-58.12	-55.52	2.6	-40.0	15.5	Vertical	PK	PASS
1605.3312	-57.71	-55.05	2.7	-40.0	15.1	Vertical	PK	PASS

**LTE Band 66**

Plot for Low Channel

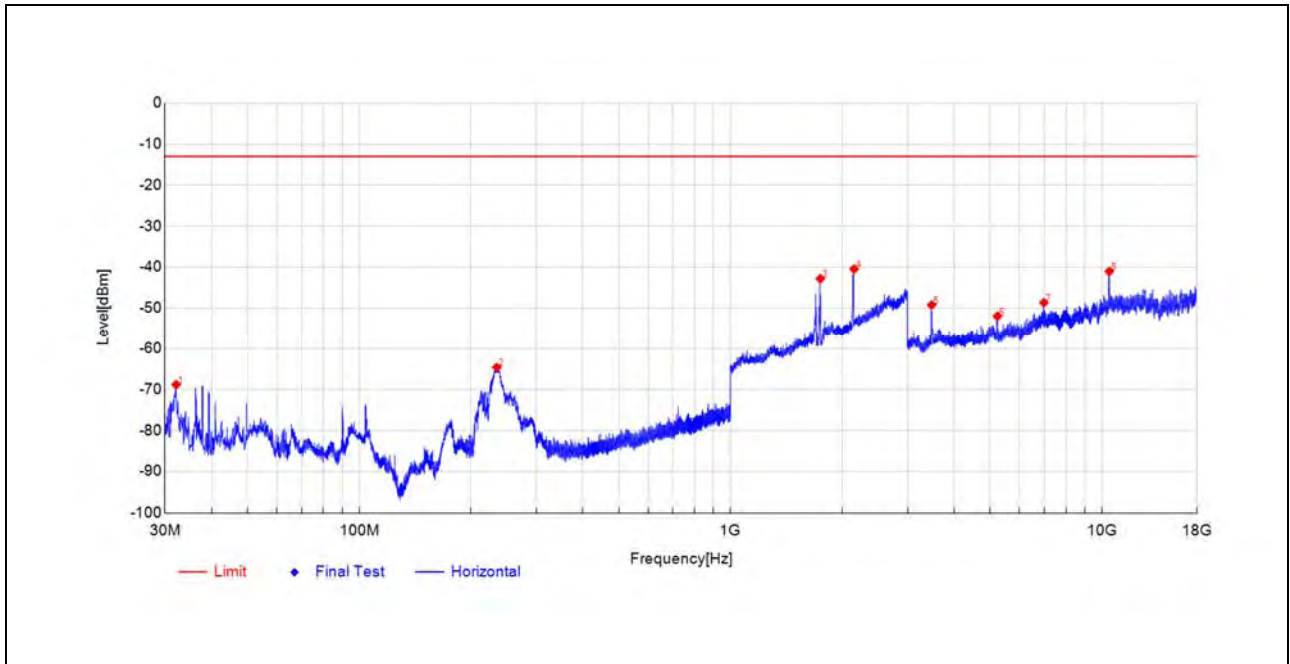


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.1826	-54.31	-69.53	-15.2	-13.0	56.5	Horizontal	PK	PASS
237.5419	-48.31	-64.12	-15.8	-13.0	51.1	Horizontal	PK	PASS
1699.7399	-32.28	-28.96	3.3	-13.0	16.0	Horizontal	PK	PASS
2127.0254	-47.25	-41.27	6.0	-	-	Horizontal	PK	NA
3434.6335	-48.49	-47.99	0.5	-13.0	35.0	Horizontal	PK	PASS
5158.5941	-55.43	-49.92	5.5	-13.0	36.9	Horizontal	PK	PASS
6879.3952	-60.56	-49.02	11.5	-13.0	36.0	Horizontal	PK	PASS
10319.692	-60.35	-41.78	18.6	-13.0	28.8	Horizontal	PK	PASS

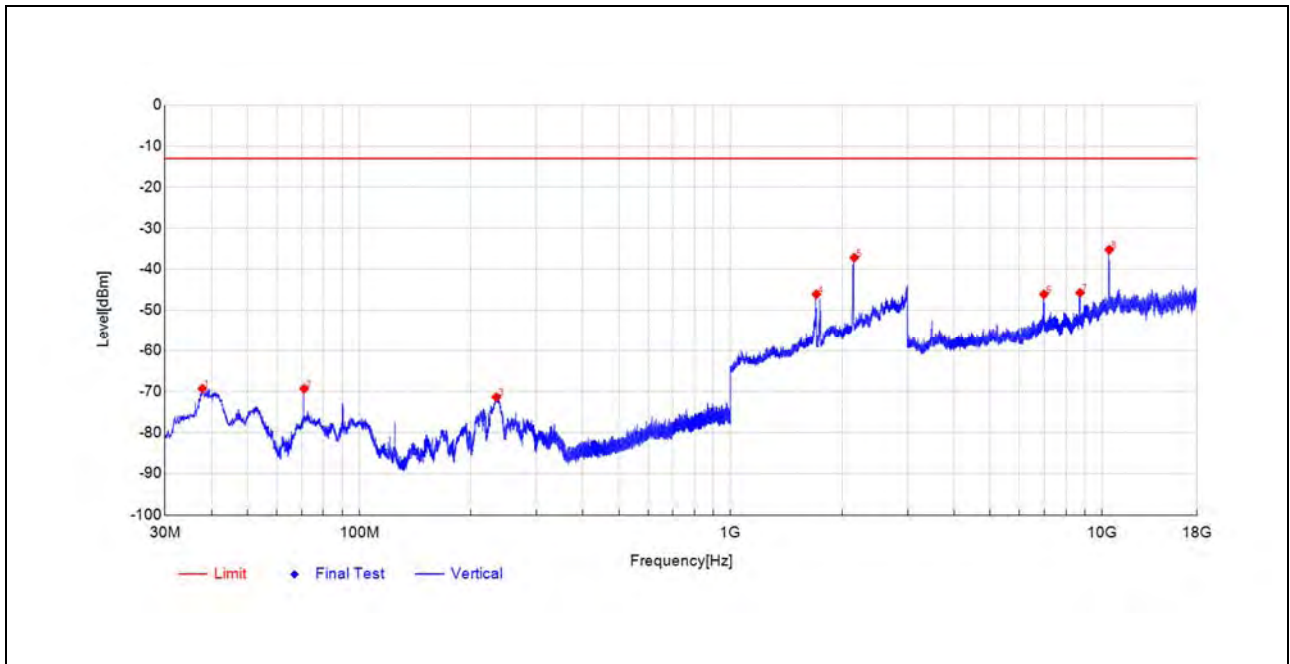


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9544	-46.42	-69.00	-22.6	-13.0	56.0	Vertical	PK	PASS
234.0497	-52.58	-71.43	-18.9	-13.0	58.4	Vertical	PK	PASS
1699.7399	-33.57	-30.11	3.5	-13.0	17.1	Vertical	PK	PASS
2122.2244	-43.17	-37.33	5.8	-	-	Vertical	PK	NA
6879.8752	-55.29	-44.48	10.8	-13.0	31.5	Vertical	PK	PASS
8595.4638	-59.35	-45.36	14.0	-13.0	32.4	Vertical	PK	PASS
10347.053	-56.67	-37.68	19.0	-13.0	24.7	Vertical	PK	PASS
16664.586	-69.84	-44.22	25.6	-13.0	31.2	Vertical	PK	PASS

Plot for Mid Channel

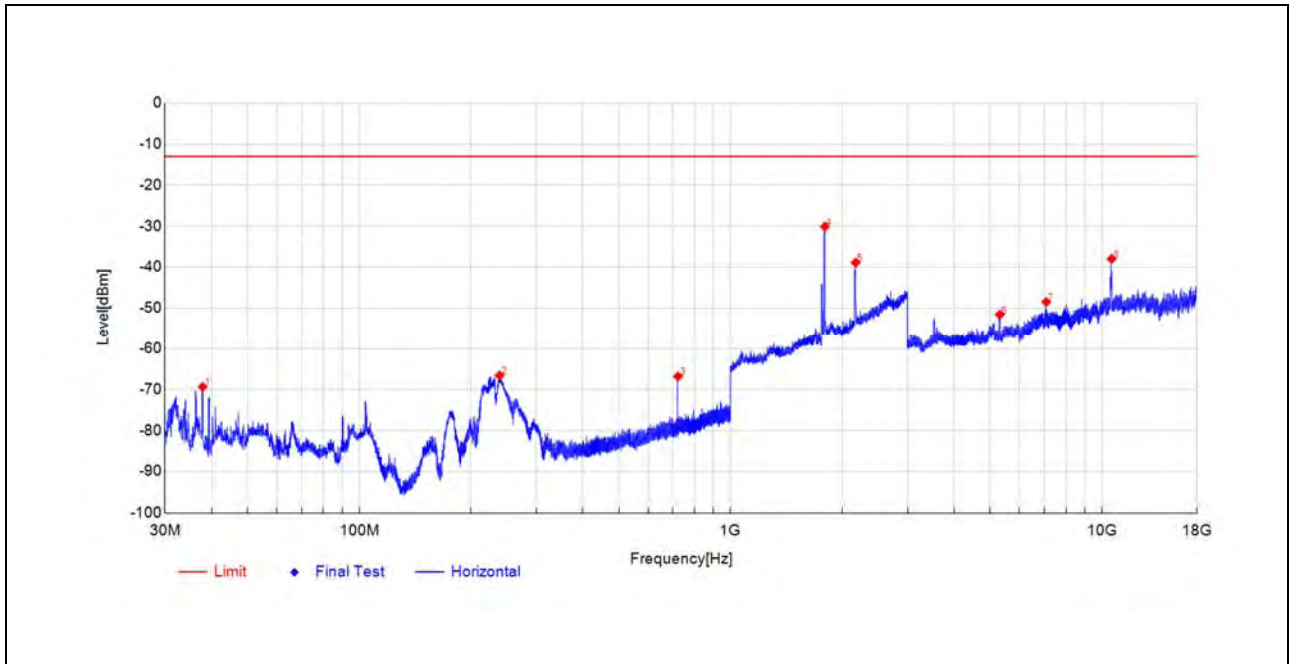


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.1341	-53.61	-68.84	-15.2	-13.0	55.8	Horizontal	PK	PASS
234.6802	-49.04	-64.63	-15.6	-13.0	51.6	Horizontal	PK	PASS
1744.5489	-45.76	-42.80	3.0	-	-	Horizontal	PK	NA
2151.4303	-46.45	-40.43	6.0	-	-	Horizontal	PK	NA
3480.4972	-50.09	-49.20	0.9	-13.0	36.2	Horizontal	PK	PASS
5231.4616	-57.15	-51.93	5.2	-13.0	38.9	Horizontal	PK	PASS
6979.7192	-60.16	-48.64	11.5	-13.0	35.6	Horizontal	PK	PASS
10469.938	-60.29	-41.01	19.3	-13.0	28.0	Horizontal	PK	PASS

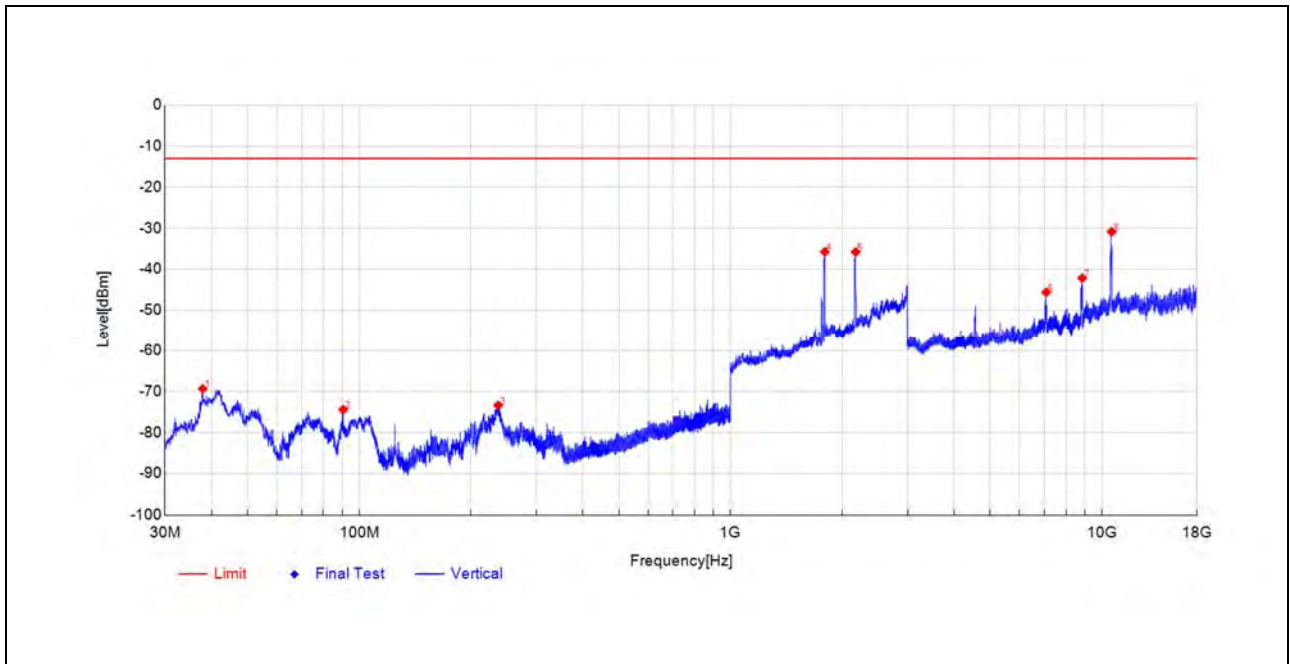


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.8089	-46.69	-69.31	-22.6	-13.0	56.3	Vertical	PK	PASS
71.0331	-48.37	-69.34	-21.0	-13.0	56.3	Vertical	PK	PASS
234.0982	-52.54	-71.39	-18.9	-13.0	58.4	Vertical	PK	PASS
1702.1404	-49.59	-46.10	3.5	-13.0	33.1	Vertical	PK	PASS
2153.0306	-42.87	-37.17	5.7	-	-	Vertical	PK	NA
6980.1992	-57.14	-46.09	11.1	-13.0	33.1	Vertical	PK	PASS
8732.7493	-60.11	-45.72	14.4	-13.0	32.7	Vertical	PK	PASS
10469.458	-54.70	-35.22	19.5	-13.0	22.2	Vertical	PK	PASS

Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-54.13	-69.40	-15.3	-13.0	56.4	Horizontal	PK	PASS
238.8029	-50.72	-66.63	-15.9	-13.0	53.6	Horizontal	PK	PASS
721.8871	-58.63	-66.83	-8.2	-13.0	53.8	Horizontal	PK	PASS
1793.7588	-34.22	-30.09	4.1	-13.0	17.1	Horizontal	PK	PASS
2171.8344	-45.65	-38.85	6.8	-	-	Horizontal	PK	NA
5310.7587	-57.04	-51.55	5.5	-13.0	38.6	Horizontal	PK	PASS
7080.0432	-60.30	-48.46	11.8	-13.0	35.5	Horizontal	PK	PASS
10620.184	-57.20	-37.95	19.3	-13.0	25.0	Horizontal	PK	PASS



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
37.9059	-46.77	-69.36	-22.6	-13.0	56.4	Vertical	PK	PASS
90.4825	-52.18	-74.43	-22.3	-13.0	61.4	Vertical	PK	PASS
236.6203	-54.60	-73.38	-18.8	-13.0	60.4	Vertical	PK	PASS
1793.7588	-39.43	-35.75	3.7	-13.0	22.8	Vertical	PK	PASS
2172.2344	-42.15	-35.77	6.4	-	-	Vertical	PK	NA
7080.0432	-56.47	-45.60	10.9	-13.0	32.6	Vertical	PK	PASS
8848.4339	-56.43	-42.14	14.3	-13.0	29.1	Vertical	PK	PASS
10619.704	-50.82	-30.87	20.0	-13.0	17.9	Vertical	PK	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 Equipment Utilized

4.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2024.06.19	2025.06.18
				2025.05.15	2026.05.14
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
JS36-RSE	Tonscend	5.0.0



**4.3 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2024.09.11	2025.09.10
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
				2025.06.20	2026.06.19
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
				2025.05.16	2026.05.15
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
				2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2024.09.11	2025.09.10
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
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 B13	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV	Wainwright	N/A	N/A



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		-LTE B66			
Notch Filter	N/A	WRCGV -LTE B71	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

_____ END OF REPORT _____

