

6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0







6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0





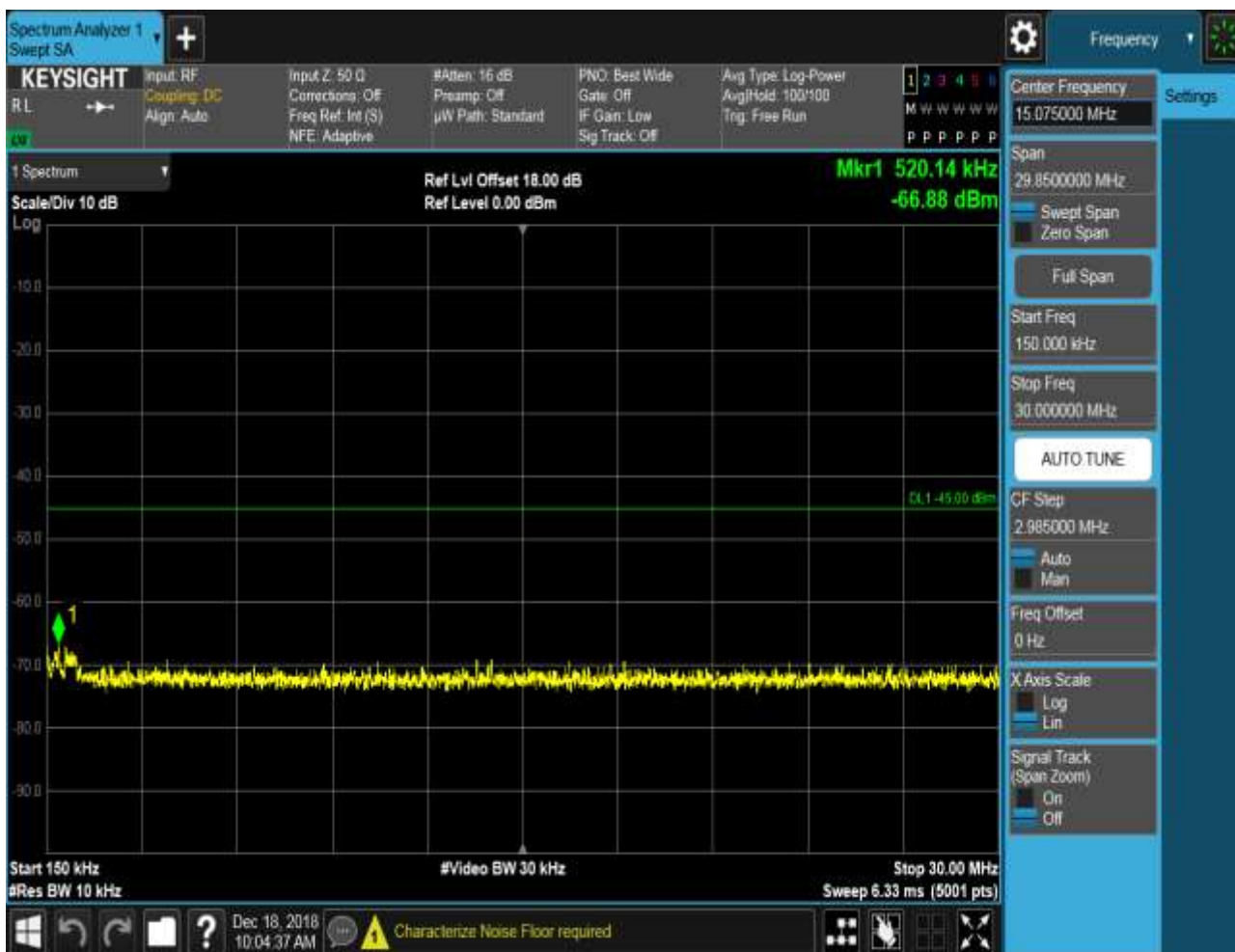


6.2.1.2.2 Test Bandwidth = 10

6.2.1.2.2.1 Test Channel = LCH

6.2.1.2.2.1.1 Test RB = RB1#0







6.2.1.2.2.2 Test Channel = MCH

6.2.1.2.2.2.1 Test RB = RB1#0







6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0







6.2.1.2.3 Test Bandwidth = 15

6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0







6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0







6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0





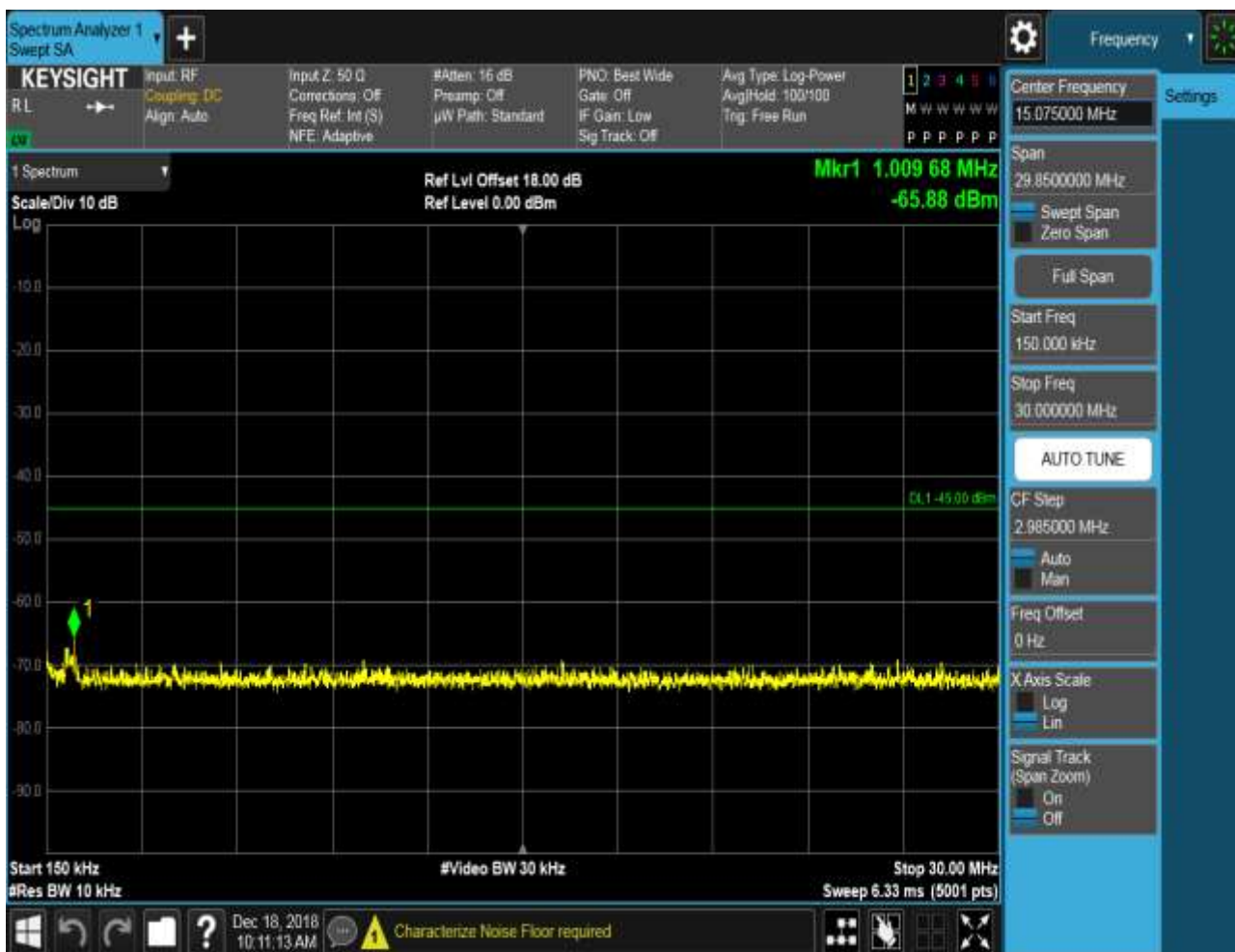


6.2.1.2.4 Test Bandwidth = 20

6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0



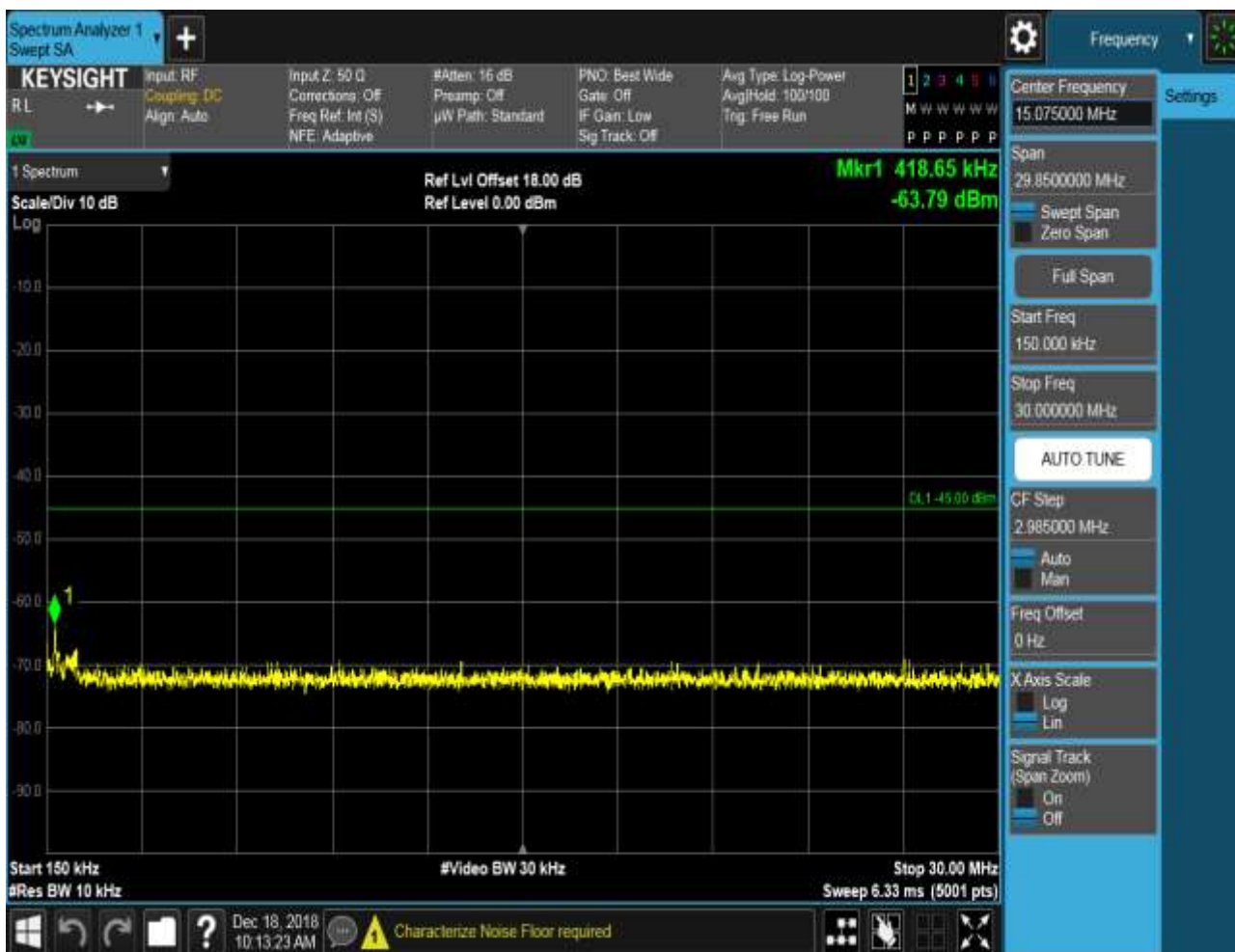




6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0







6.2.1.2.4.3 Test Channel = HCH

6.2.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

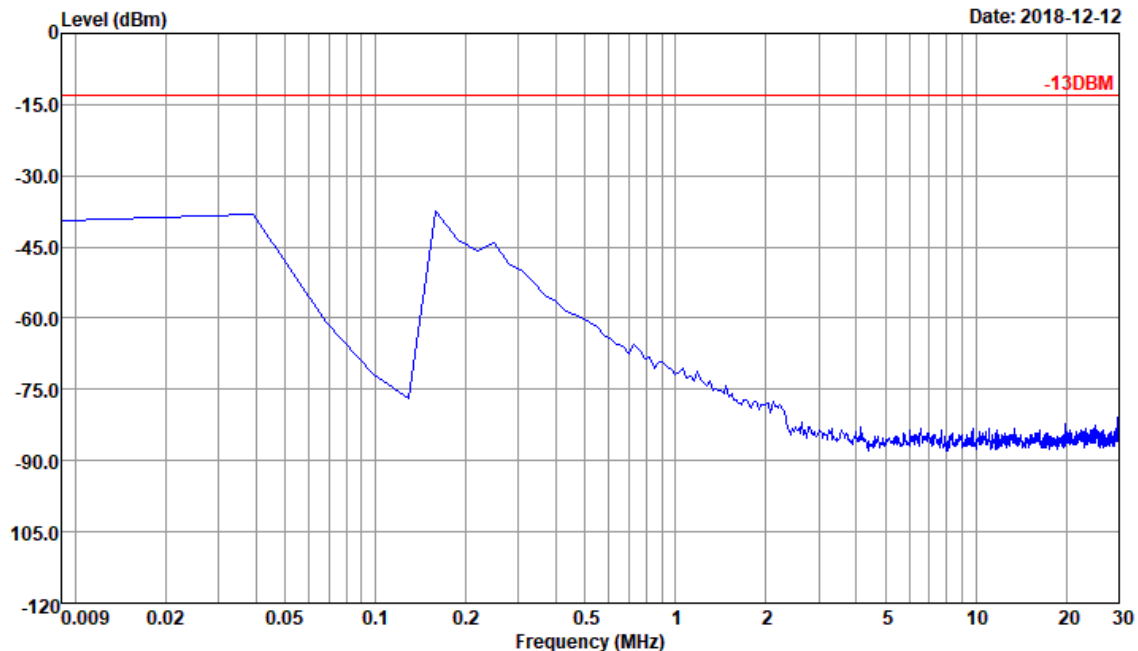
7.1.1 Test Band = Band7_ANT1

7.1.1.1 Test Bandwidth = 5



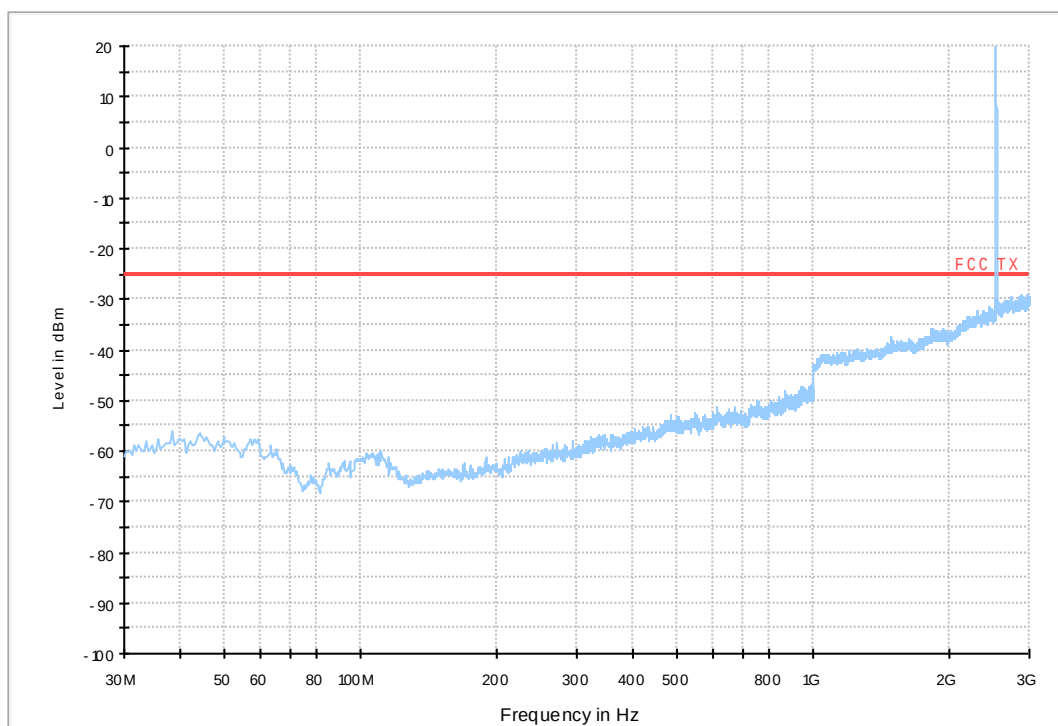
Data: 76

Date: 2018-12-12

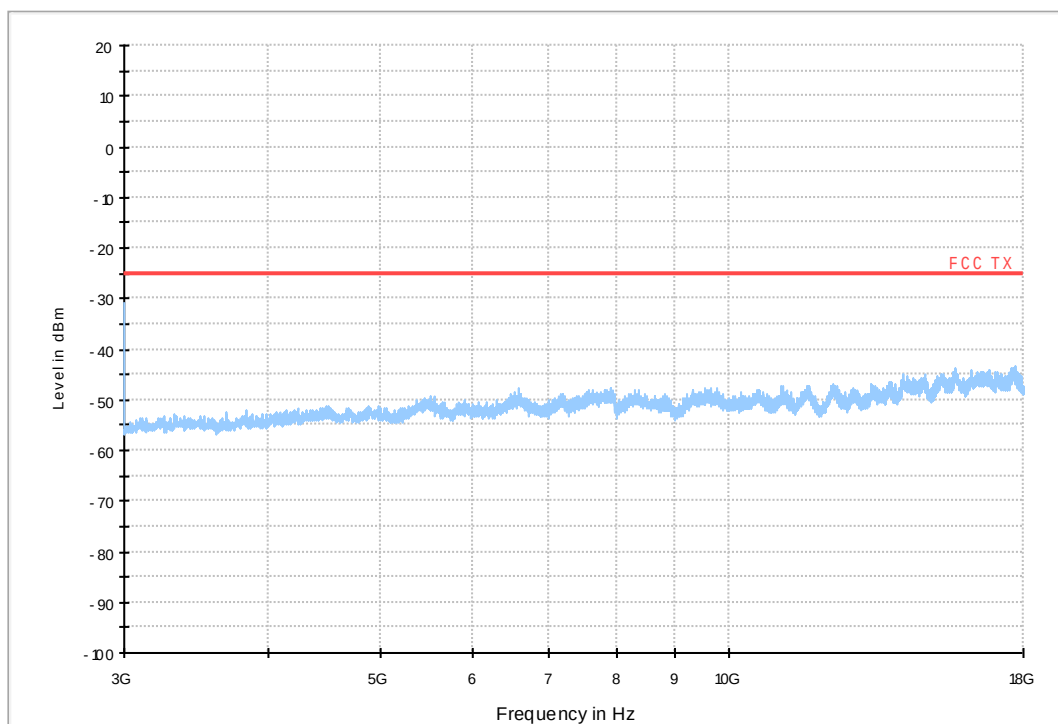


Site : 03CH01-SZ
 Condition : -13DBM
 : RBW:9.000KHz VBW:30.000KHz

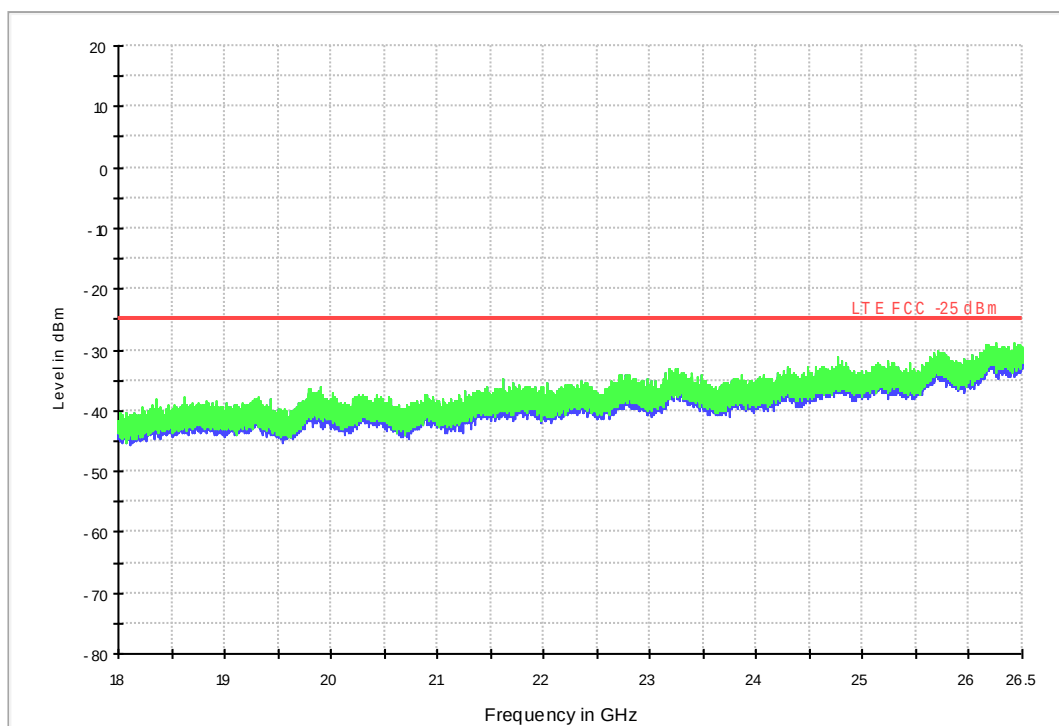
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

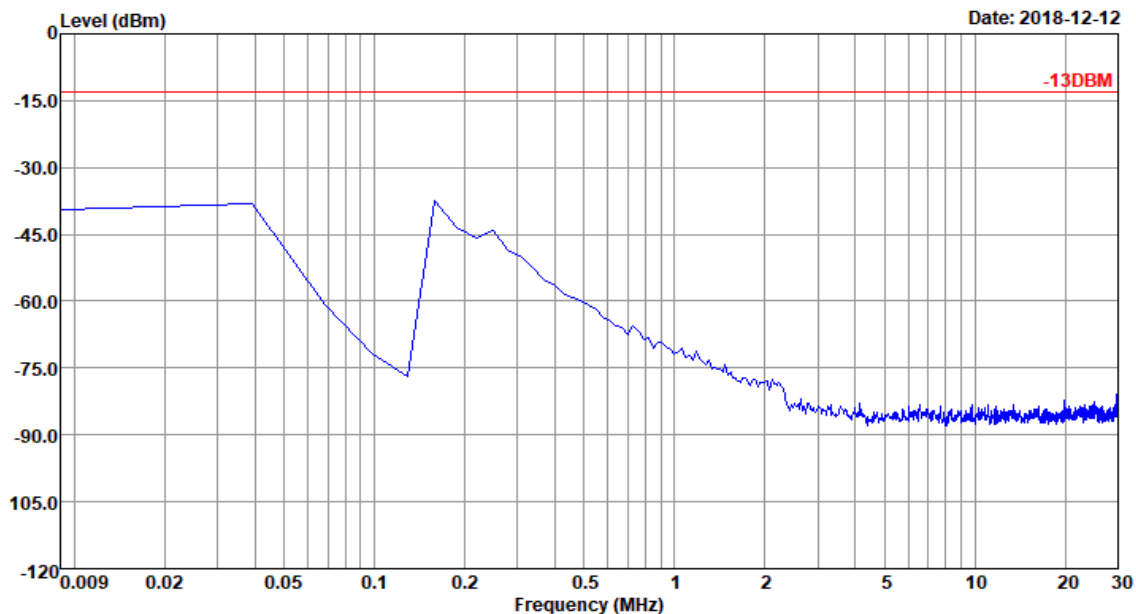


7.1.1.2 Test Bandwidth = 20



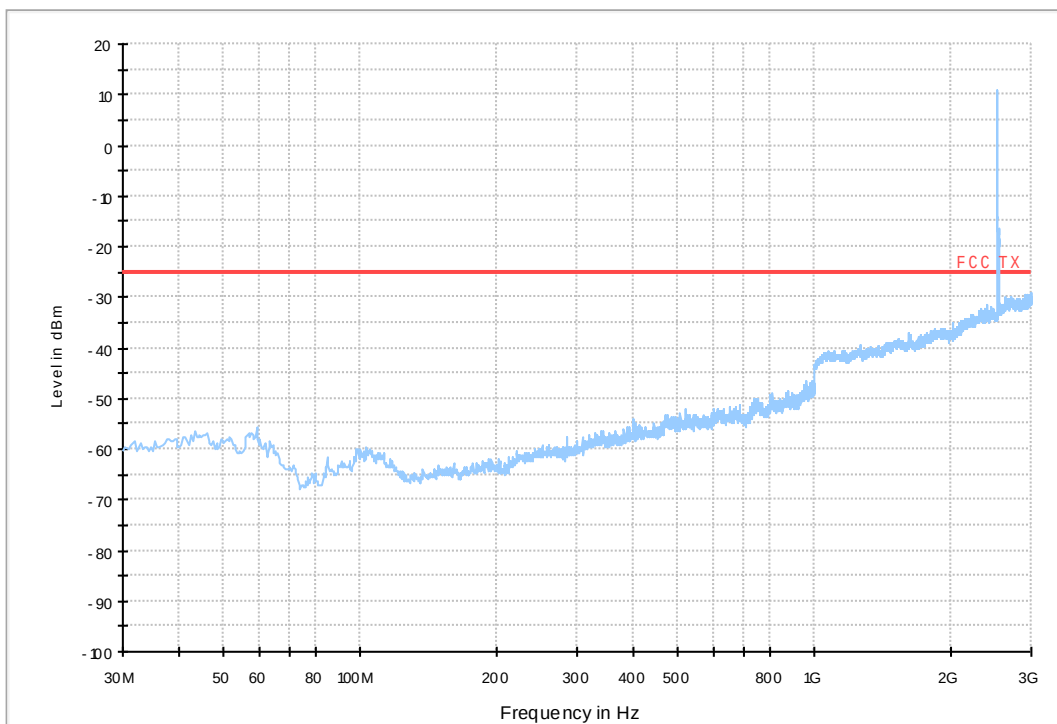
Data: 76

Date: 2018-12-12

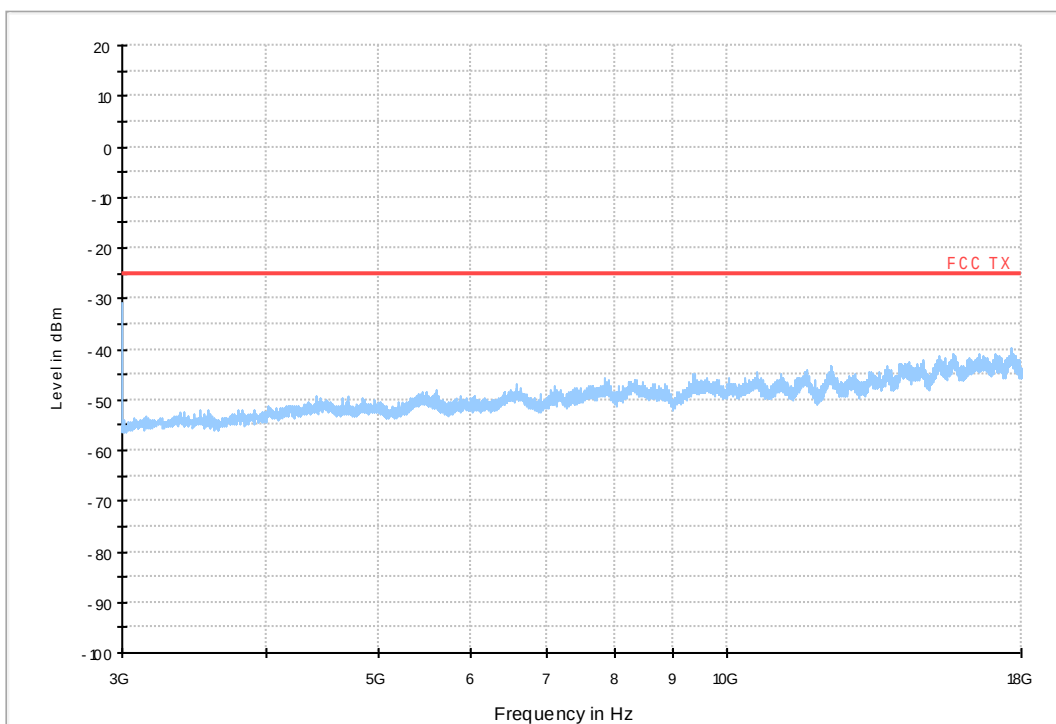


Site : 03CH01-SZ
 Condition : -13DBM
 : RBW:9.000KHz VBW:30.000KHz

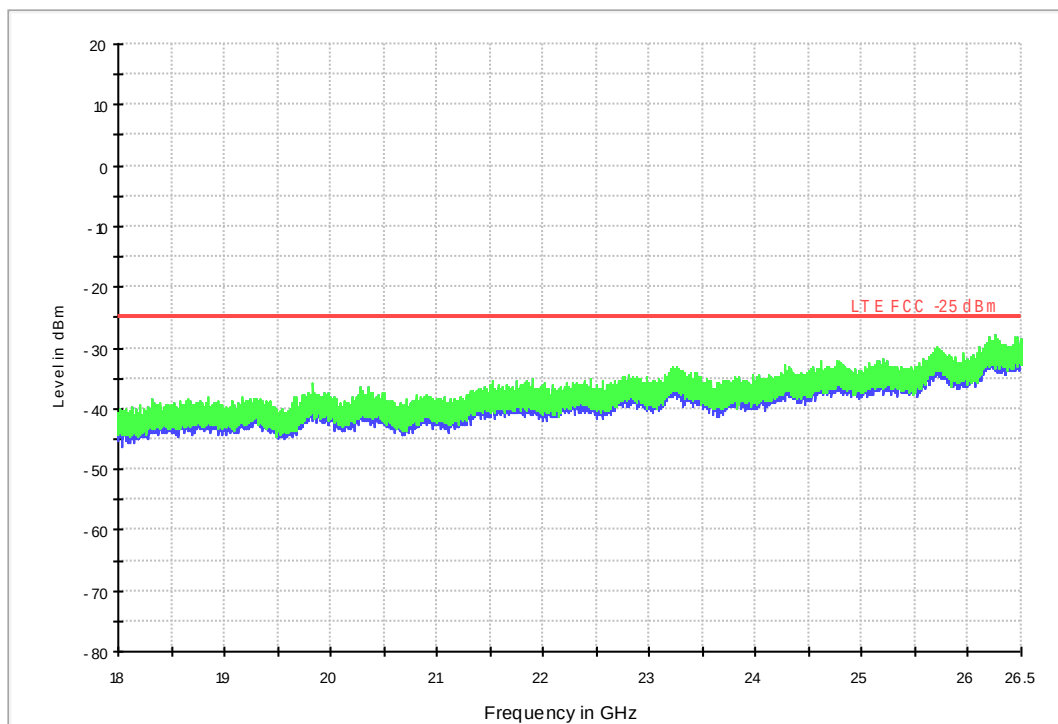
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit

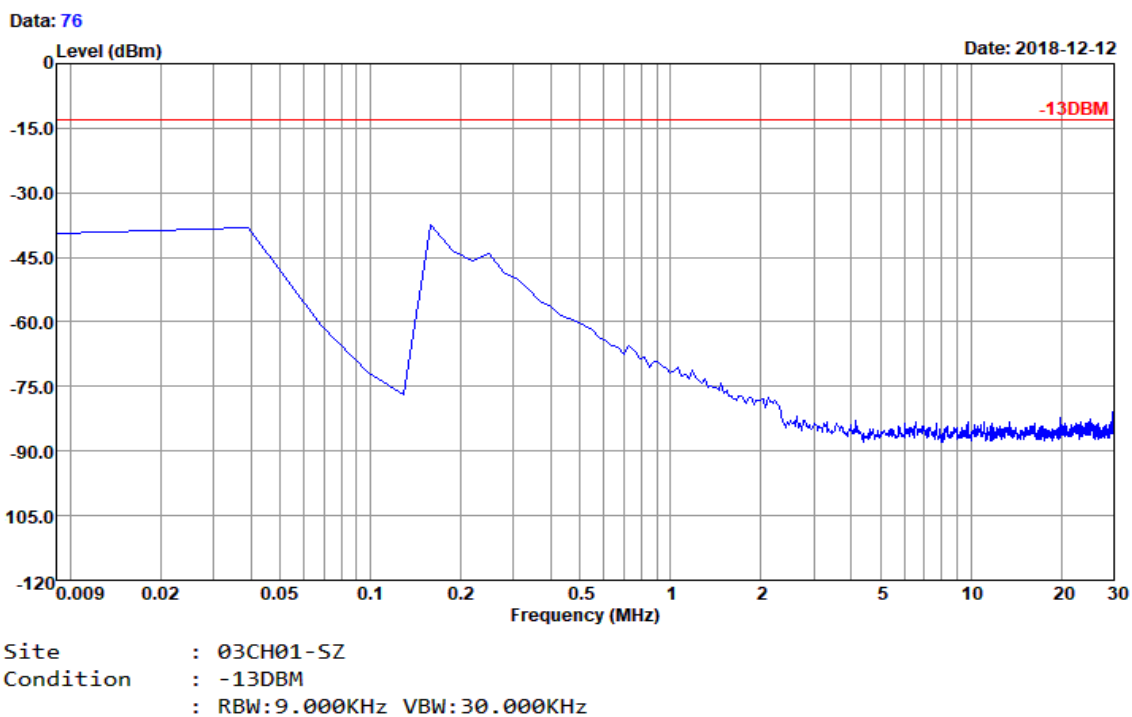


18G~26.5G R SE-TX-DIRECTOR ABOVE 1.5G PK

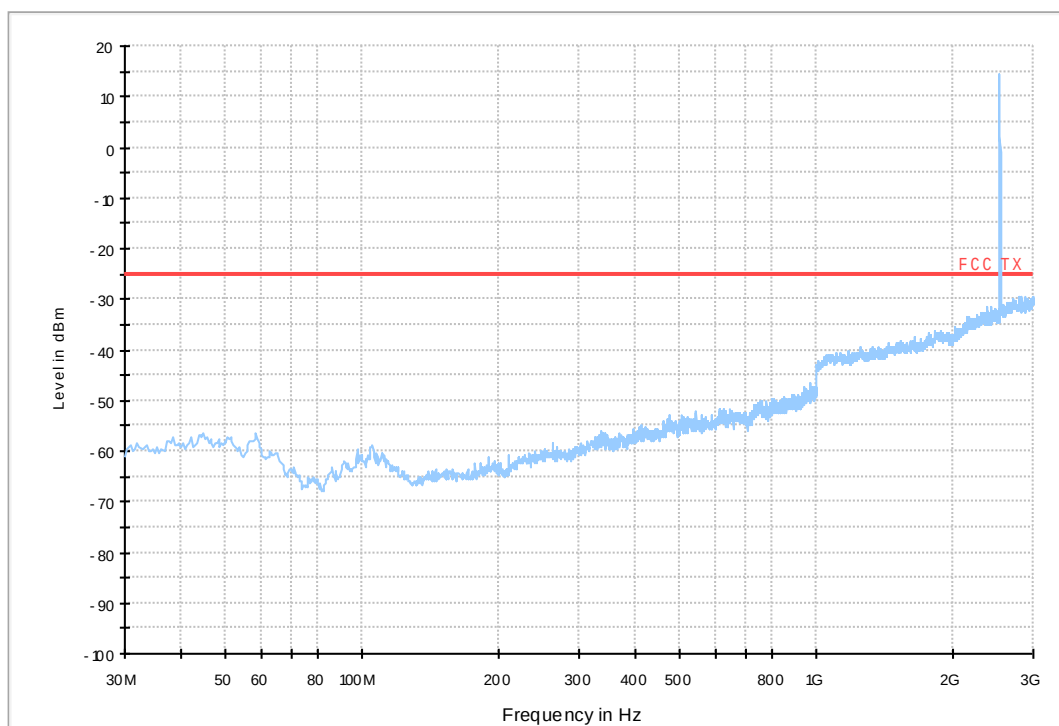


7.1.2 Test Band = Band7_ANT2

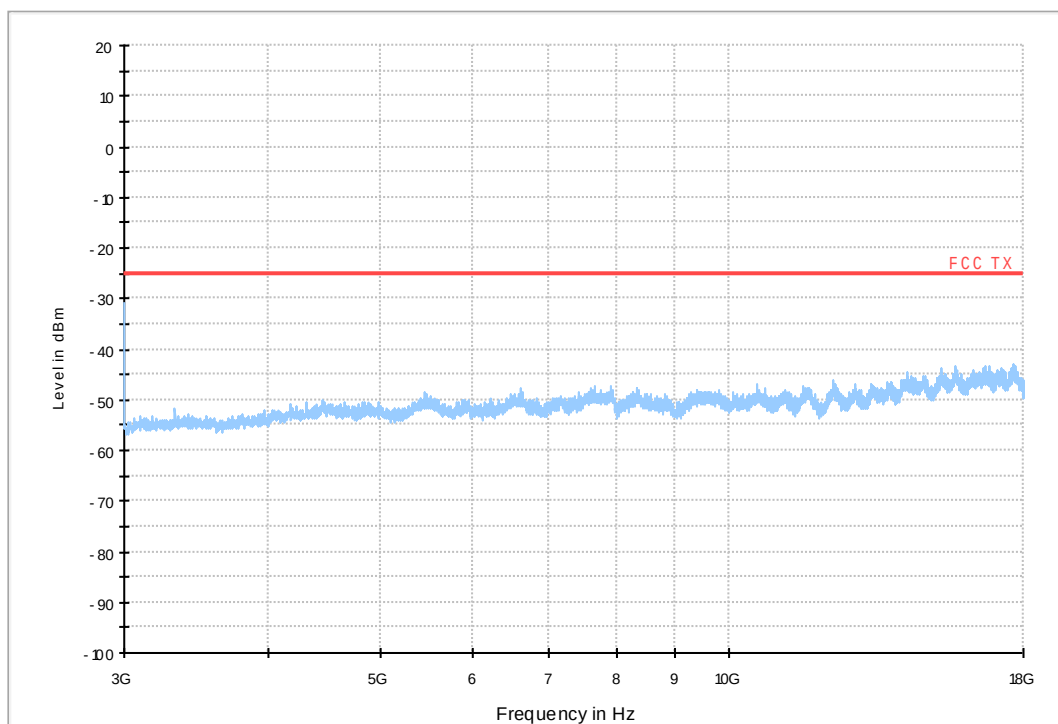
7.1.2.1 Test Bandwidth = 5



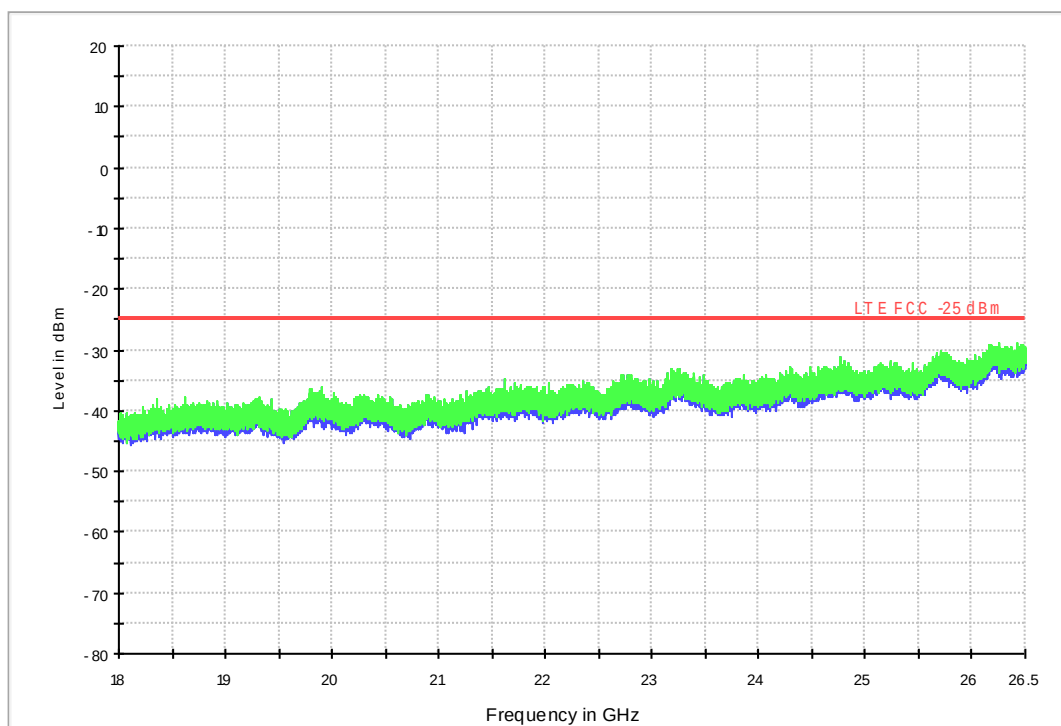
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



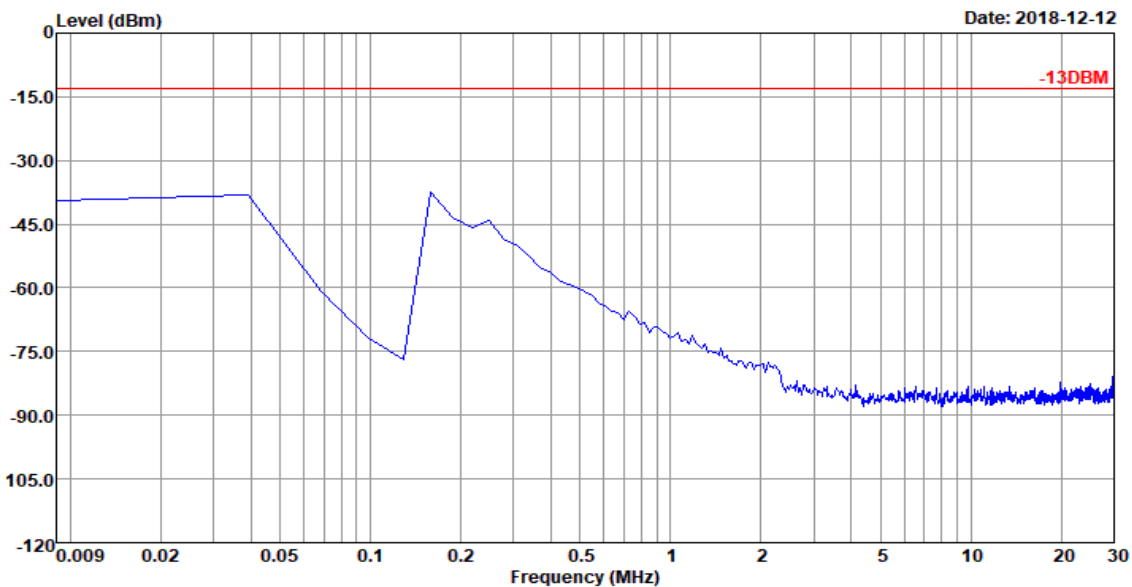
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



7.1.2.2 Test Bandwidth = 20

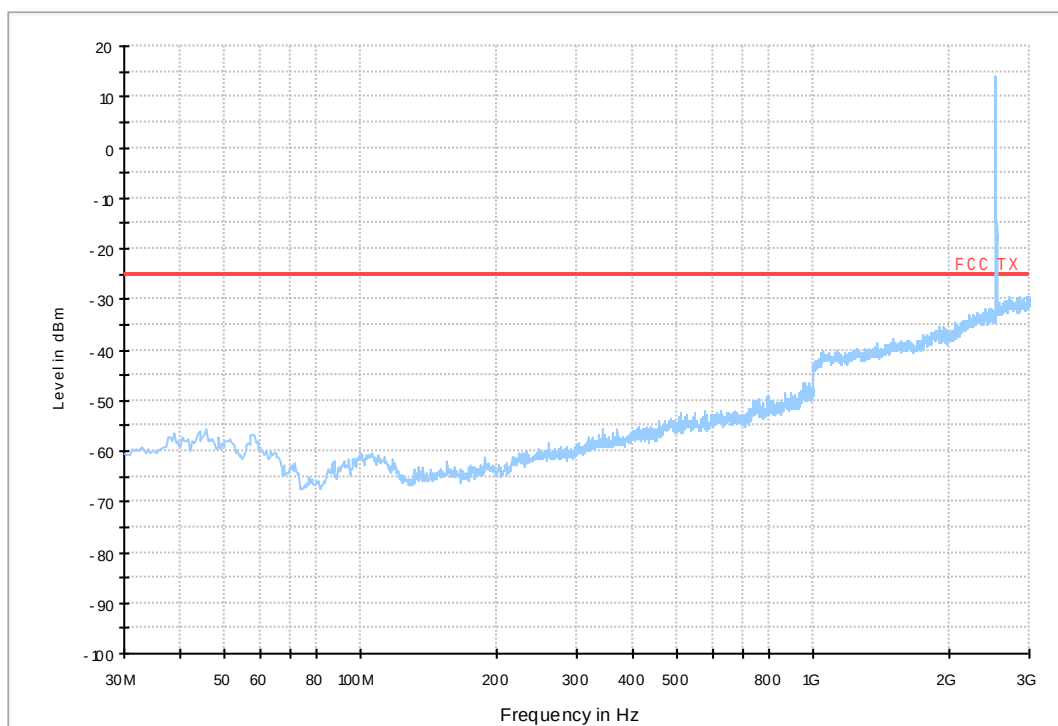


Data: 76

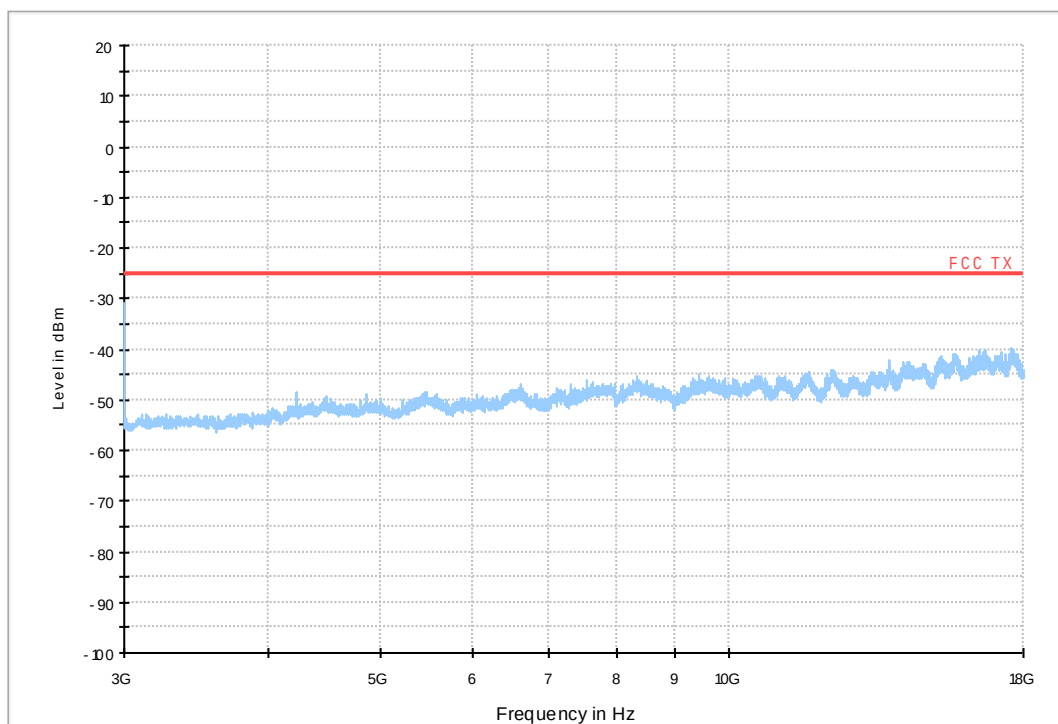


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

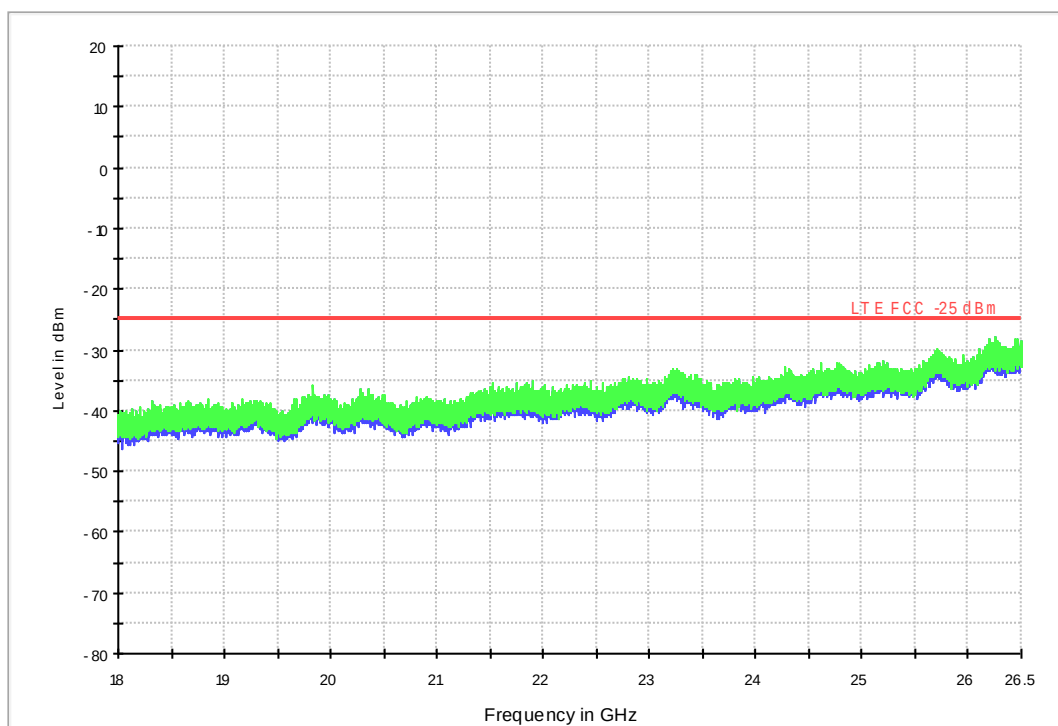
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-TX-DIRECTOR ABOVE 1.5G PK



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band7	LTE/TM1	5	LCH	TN	VL	-8.88348	-0.00355	PASS
					VN	-5.73635	-0.00229	PASS
					VH	-6.23703	-0.00249	PASS
			MCH	TN	VL	-3.71933	-0.00147	PASS
					VN	-29.96922	-0.01182	PASS
					VH	-0.41485	-0.00016	PASS
			HCH	TN	VL	-6.25134	-0.00243	PASS
					VN	-32.11498	-0.01251	PASS
					VH	-8.89778	-0.00347	PASS
		10	LCH	TN	VL	-1.95980	-0.00078	PASS
					VN	-20.88547	-0.00834	PASS
					VH	0.17166	0.00007	PASS
			MCH	TN	VL	0.30041	0.00012	PASS
					VN	-3.47614	-0.00137	PASS
					VH	1.35899	0.00054	PASS
			HCH	TN	VL	-2.54631	-0.00099	PASS
					VN	-5.65052	-0.00220	PASS
					VH	-3.86238	-0.00151	PASS
		15	LCH	TN	VL	-1.61648	-0.00064	PASS
					VN	-1.67370	-0.00067	PASS
					VH	3.57628	0.00143	PASS
			MCH	TN	VL	2.07424	0.00082	PASS
					VN	-1.90258	-0.00075	PASS
					VH	-0.31471	-0.00012	PASS
			HCH	TN	VL	-3.56197	-0.00139	PASS
					VN	-1.78814	-0.00070	PASS
					VH	-1.43051	-0.00056	PASS
		20	LCH	TN	VL	-1.10149	-0.00044	PASS
					VN	-1.54495	-0.00062	PASS
					VH	1.45912	0.00058	PASS
			MCH	TN	VL	-0.30041	-0.00012	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		HCH	TN	VN	-2.66075	-0.00105	PASS
					VH	-0.54359	-0.00021	PASS
					VL	-0.11444	-0.00004	PASS
					VN	-0.34332	-0.00013	PASS
					VH	0.32902	0.00013	PASS
		5	LCH	TN	VL	-45.39013	-0.01814	PASS
					VN	-9.15527	-0.00366	PASS
					VH	-11.51562	-0.00460	PASS
			MCH	TN	VL	0.34332	0.00014	PASS
					VN	-7.99656	-0.00315	PASS
					VH	-2.40326	-0.00095	PASS
			HCH	TN	VL	-29.72603	-0.01158	PASS
					VN	-12.96043	-0.00505	PASS
					VH	-6.49452	-0.00253	PASS
		10	LCH	TN	VL	1.68800	0.00067	PASS
					VN	-4.01974	-0.00160	PASS
					VH	-0.65804	-0.00026	PASS
			MCH	TN	VL	3.07560	0.00121	PASS
					VN	-2.18868	-0.00086	PASS
					VH	0.64373	0.00025	PASS
			HCH	TN	VL	-0.25749	-0.00010	PASS
					VN	-4.26292	-0.00166	PASS
					VH	-2.23160	-0.00087	PASS
		15	LCH	TN	VL	-0.90122	-0.00036	PASS
					VN	0.64373	0.00026	PASS
					VH	-1.73092	-0.00069	PASS
			MCH	TN	VL	3.97682	0.00157	PASS
					VN	-3.24726	-0.00128	PASS
					VH	-5.30720	-0.00209	PASS
			HCH	TN	VL	-1.38760	-0.00054	PASS
					VN	-5.35011	-0.00209	PASS
					VH	-1.38760	-0.00054	PASS
		20	LCH	TN	VL	-0.50068	-0.00020	PASS
					VN	-5.62191	-0.00224	PASS
					VH	-0.75817	-0.00030	PASS
			MCH	TN	VL	1.51634	0.00060	PASS
					VN	-0.54359	-0.00021	PASS
					VH	-1.33038	-0.00052	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	2.91824	0.00114	PASS
					VN	-1.21593	-0.00047	PASS
					VH	1.05858	0.00041	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band7	LTE/TM1	5	LCH	VN	-30	-5.37872	-0.00215	PASS
					-20	-2.24590	-0.00090	PASS
					-10	-11.04355	-0.00441	PASS
					0	-5.70774	-0.00228	PASS
					10	-26.16405	-0.01046	PASS
					20	-5.73635	-0.00229	PASS
					30	-21.37184	-0.00854	PASS
					40	-5.00679	-0.00200	PASS
					50	-33.20217	-0.01327	PASS
			MCH	VN	-30	-8.56876	-0.00338	PASS
					-20	-10.65731	-0.00420	PASS
					-10	-9.77039	-0.00385	PASS
					0	-38.15174	-0.01505	PASS
					10	-9.29833	-0.00367	PASS
					20	-29.96922	-0.01182	PASS
					30	-10.35690	-0.00409	PASS
					40	-9.64165	-0.00380	PASS
					50	-12.48837	-0.00493	PASS
			HCH	VN	-30	-29.54006	-0.01151	PASS
					-20	-12.80308	-0.00499	PASS
					-10	-32.58705	-0.01269	PASS
					0	-14.80579	-0.00577	PASS
					10	-9.28402	-0.00362	PASS
					20	-32.11498	-0.01251	PASS
					30	-14.00471	-0.00545	PASS
					40	-13.17501	-0.00513	PASS
					50	-15.66410	-0.00610	PASS
		10	LCH	VN	-30	-1.65939	-0.00066	PASS
					-20	-3.93391	-0.00157	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-1.07288	-0.00043	PASS
					0	-5.95093	-0.00238	PASS
					10	-2.68936	-0.00107	PASS
					20	-20.88547	-0.00834	PASS
					30	-2.13146	-0.00085	PASS
					40	0.07153	0.00003	PASS
					50	-3.51906	-0.00140	PASS
			MCH	VN	-30	-22.40181	-0.00884	PASS
					-20	-4.86374	-0.00192	PASS
					-10	-0.07153	-0.00003	PASS
					0	-2.68936	-0.00106	PASS
					10	-3.76225	-0.00148	PASS
					20	-3.47614	-0.00137	PASS
					30	-4.96387	-0.00196	PASS
					40	-5.09262	-0.00201	PASS
					50	-7.72476	-0.00305	PASS
			HCH	VN	-30	-13.11779	-0.00511	PASS
					-20	-2.76089	-0.00108	PASS
					-10	-12.05921	-0.00470	PASS
					0	-1.00136	-0.00039	PASS
					10	-15.76424	-0.00615	PASS
					20	-5.65052	-0.00220	PASS
					30	-4.69208	-0.00183	PASS
					40	-4.59194	-0.00179	PASS
					50	-4.24862	-0.00166	PASS
		15	LCH	VN	-30	-2.48909	-0.00099	PASS
					-20	-1.48773	-0.00059	PASS
					-10	1.02997	0.00041	PASS
					0	-10.49995	-0.00419	PASS
					10	-1.87397	-0.00075	PASS
					20	-1.67370	-0.00067	PASS
					30	-9.18388	-0.00366	PASS
					40	-0.77248	-0.00031	PASS
					50	-2.14577	-0.00086	PASS
			MCH	VN	-30	-1.53065	-0.00060	PASS
					-20	-3.34740	-0.00132	PASS
					-10	-0.74387	-0.00029	PASS
					0	-1.34468	-0.00053	PASS
					10	-2.71797	-0.00107	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-1.90258	-0.00075	PASS
					30	-1.00136	-0.00040	PASS
					40	-2.20299	-0.00087	PASS
					50	0.18597	0.00007	PASS
			HCH	VN	-30	-4.66347	-0.00182	PASS
					-20	-7.69615	-0.00300	PASS
					-10	-1.94550	-0.00076	PASS
					0	-3.89099	-0.00152	PASS
					10	-2.17438	-0.00085	PASS
					20	-1.78814	-0.00070	PASS
					30	-2.10285	-0.00082	PASS
					40	-2.68936	-0.00105	PASS
					50	-2.57492	-0.00100	PASS
		20	LCH	VN	-30	1.37329	0.00055	PASS
					-20	-0.40054	-0.00016	PASS
					-10	-0.52929	-0.00021	PASS
					0	0.58651	0.00023	PASS
					10	0.22888	0.00009	PASS
					20	-1.54495	-0.00062	PASS
					30	0.32902	0.00013	PASS
					40	1.75953	0.00070	PASS
					50	0.02861	0.00001	PASS
			MCH	VN	-30	1.23024	0.00049	PASS
					-20	-0.15736	-0.00006	PASS
					-10	-2.17438	-0.00086	PASS
					0	0.34332	0.00014	PASS
					10	-2.60353	-0.00103	PASS
					20	-2.66075	-0.00105	PASS
					30	-1.85966	-0.00073	PASS
					40	-0.72956	-0.00029	PASS
					50	0.27180	0.00011	PASS
			HCH	VN	-30	0.67234	0.00026	PASS
					-20	-0.44346	-0.00017	PASS
					-10	0.22888	0.00009	PASS
					0	-0.97275	-0.00038	PASS
					10	-1.30177	-0.00051	PASS
					20	-0.34332	-0.00013	PASS
					30	-1.74522	-0.00068	PASS
					40	-0.41485	-0.00016	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	LCH	VN	50	-1.35899	-0.00053	PASS
					-30	-11.81602	-0.00472	PASS
					-20	-31.88610	-0.01274	PASS
					-10	-7.52449	-0.00301	PASS
					0	-8.64029	-0.00345	PASS
					10	-10.09941	-0.00404	PASS
					20	-9.15527	-0.00366	PASS
					30	-8.46863	-0.00338	PASS
					40	-10.87189	-0.00434	PASS
					50	-7.98225	-0.00319	PASS
			MCH	VN	-30	-30.94196	-0.01221	PASS
					-20	-7.43866	-0.00293	PASS
					-10	-32.00054	-0.01262	PASS
					0	-32.77302	-0.01293	PASS
					10	-5.59330	-0.00221	PASS
					20	-7.99656	-0.00315	PASS
					30	-9.42707	-0.00372	PASS
					40	-6.39439	-0.00252	PASS
					50	-5.95093	-0.00235	PASS
			HCH	VN	-30	-11.50131	-0.00448	PASS
					-20	-47.45007	-0.01848	PASS
					-10	-13.66138	-0.00532	PASS
					0	-28.95355	-0.01128	PASS
					10	-12.91752	-0.00503	PASS
					20	-12.96043	-0.00505	PASS
					30	-32.17220	-0.01253	PASS
					40	-27.10819	-0.01056	PASS
					50	-11.58714	-0.00451	PASS
		10	LCH	VN	-30	-1.11580	-0.00045	PASS
					-20	-4.40597	-0.00176	PASS
					-10	-1.53065	-0.00061	PASS
					0	-2.74658	-0.00110	PASS
					10	-6.00815	-0.00240	PASS
					20	-4.01974	-0.00160	PASS
					30	-6.09398	-0.00243	PASS
					40	-1.67370	-0.00067	PASS
					50	-5.55039	-0.00222	PASS
			MCH	VN	-30	-14.60552	-0.00576	PASS
					-20	-3.77655	-0.00149	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-0.12875	-0.00005	PASS
					0	-2.31743	-0.00091	PASS
					10	-2.30312	-0.00091	PASS
					20	-2.18868	-0.00086	PASS
					30	-3.08990	-0.00122	PASS
					40	-1.14441	-0.00045	PASS
					50	1.94550	0.00077	PASS
			HCH	VN	-30	-21.77238	-0.00849	PASS
					-20	-6.16550	-0.00240	PASS
					-10	-9.11236	-0.00355	PASS
					0	-5.20706	-0.00203	PASS
					10	-13.89027	-0.00542	PASS
					20	-4.26292	-0.00166	PASS
					30	-2.83241	-0.00110	PASS
					40	-21.20018	-0.00827	PASS
					50	-15.23495	-0.00594	PASS
		15	LCH	VN	-30	-1.40190	-0.00056	PASS
					-20	-1.43051	-0.00057	PASS
					-10	-3.94821	-0.00157	PASS
					0	-3.27587	-0.00131	PASS
					10	-4.60625	-0.00184	PASS
					20	0.64373	0.00026	PASS
					30	-1.34468	-0.00054	PASS
					40	-11.05785	-0.00441	PASS
					50	-3.19004	-0.00127	PASS
			MCH	VN	-30	-3.13282	-0.00124	PASS
					-20	-0.47207	-0.47207	PASS
					-10	1.44482	0.00057	PASS
					0	1.25885	0.00050	PASS
					10	-2.54631	-0.00100	PASS
					20	-3.24726	-0.00128	PASS
					30	-0.27180	-0.00011	PASS
					40	-1.23024	-0.00049	PASS
					50	-3.36170	-0.00133	PASS
			HCH	VN	-30	-8.89778	-0.00347	PASS
					-20	-5.07832	-0.00198	PASS
					-10	-9.06944	-0.00354	PASS
					0	-3.21865	-0.00126	PASS
					10	-2.96116	-0.00116	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-5.35011	-0.00209	PASS
					30	-3.10421	-0.00121	PASS
					40	-4.23431	-0.00165	PASS
					50	-4.96387	-0.00194	PASS
		20	LCH	VN	-30	-2.58923	-0.00103	PASS
					-20	-1.97411	-0.00079	PASS
					-10	-2.34604	-0.00093	PASS
					0	-1.35899	-0.00054	PASS
					10	-1.98841	-0.00079	PASS
					20	-5.62191	-0.00224	PASS
					30	-1.40190	-0.00056	PASS
					40	-4.64916	-0.00185	PASS
					50	-1.55926	-0.00062	PASS
			MCH	VN	-30	0.41485	0.00016	PASS
					-20	-0.55790	-0.00022	PASS
					-10	-0.64373	-0.00025	PASS
					0	-2.08855	-0.00082	PASS
					10	-1.04427	-0.00041	PASS
					20	-0.54359	-0.00021	PASS
					30	-0.57220	-0.00023	PASS
					40	-0.60081	-0.00024	PASS
					50	-1.43051	-0.00056	PASS
			HCH	VN	-30	-0.32902	-0.00013	PASS
					-20	-2.34604	-0.00092	PASS
					-10	-1.53065	-0.00060	PASS
					0	-0.95844	-0.00037	PASS
					10	0.14305	0.00006	PASS
					20	-1.21593	-0.00047	PASS
					30	-0.18597	-0.00007	PASS
					40	-0.50068	-0.00020	PASS
					50	0.21458	0.00008	PASS

END