

6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0







6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0







6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0







6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0







6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 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

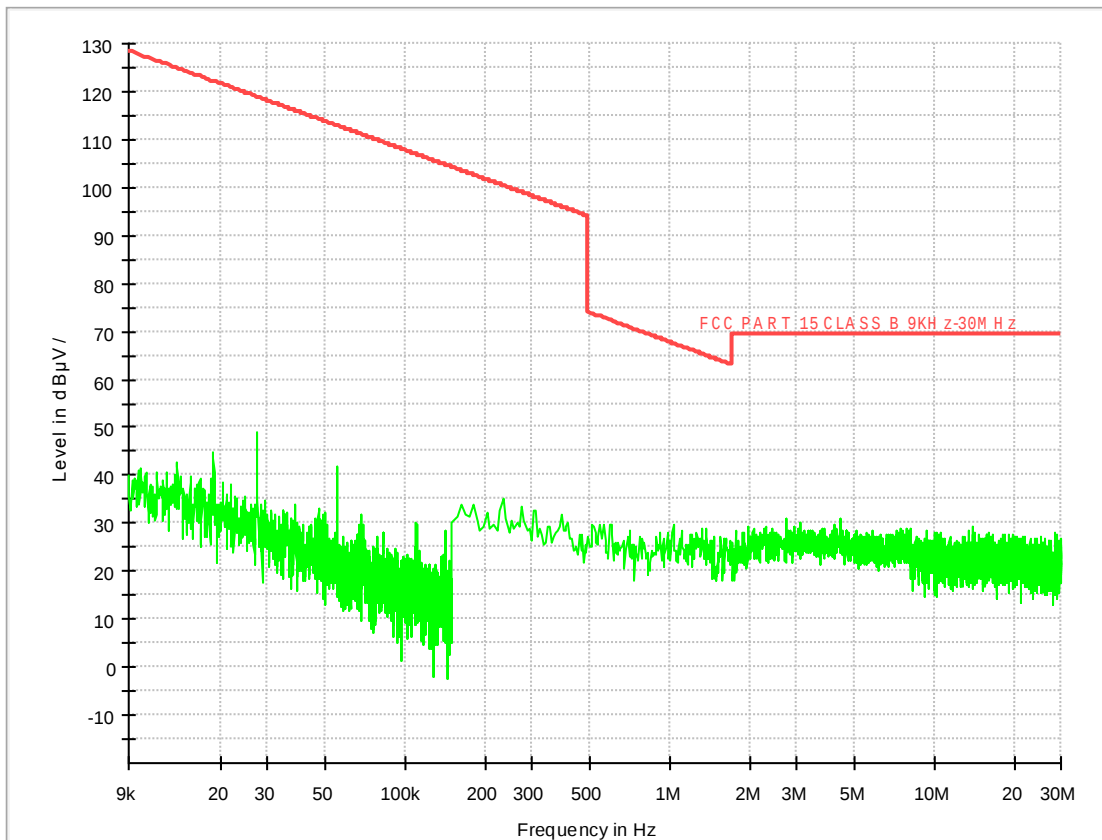
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

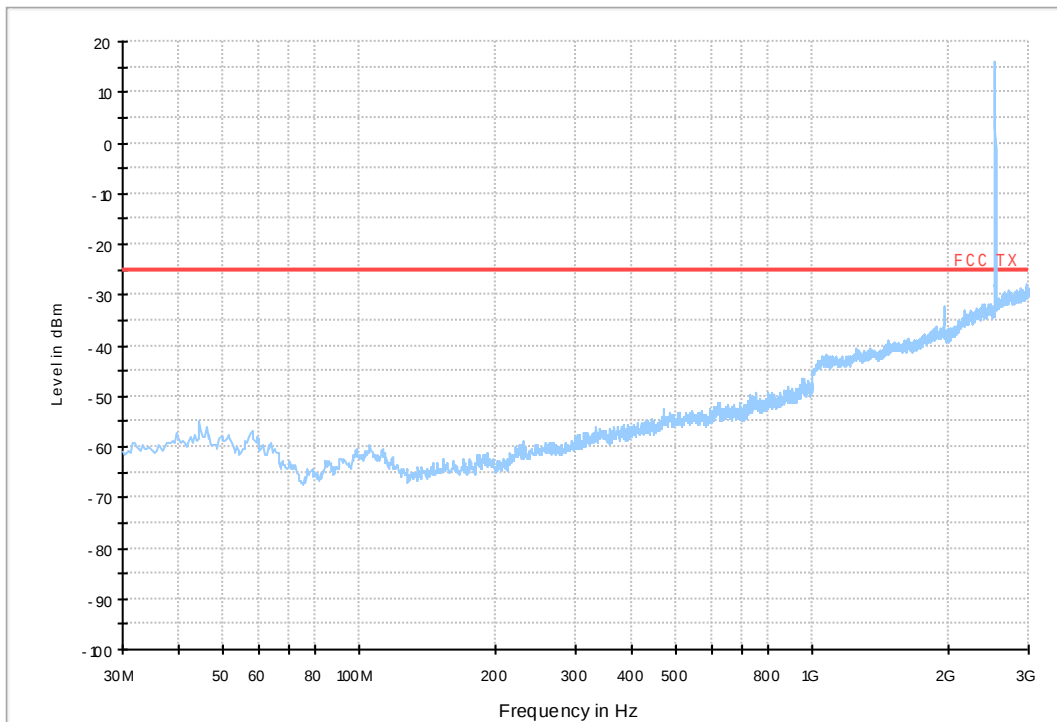
7.1 For LTE

7.1.1 Test Band = BAND7_ANT1

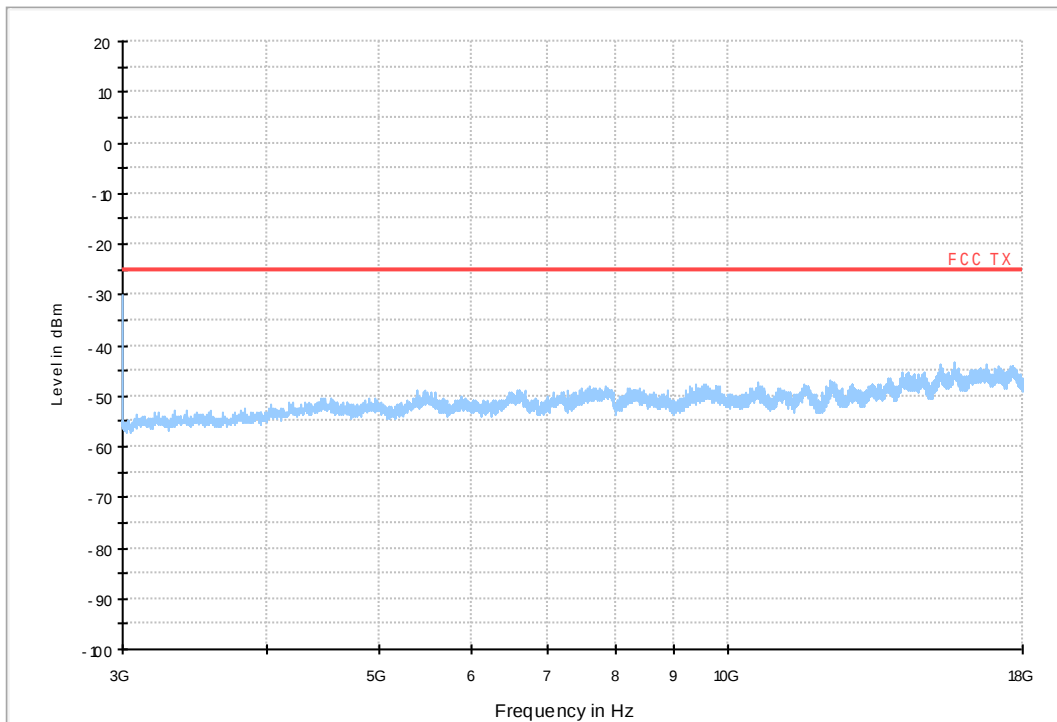
7.1.1.1 Test Bandwidth = 5



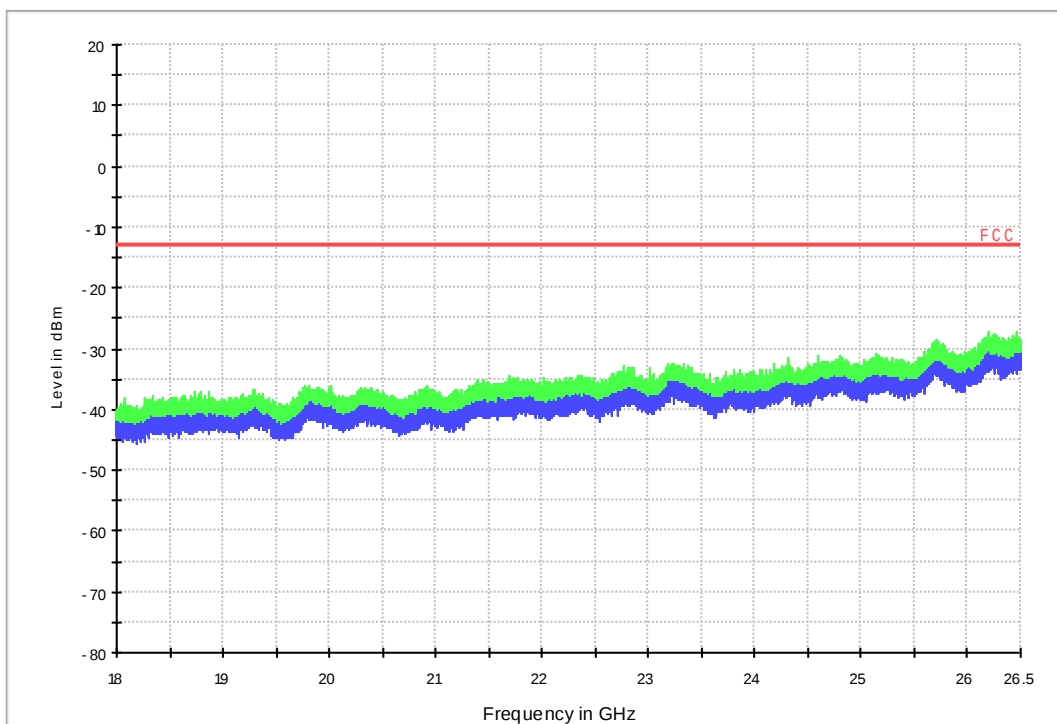
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



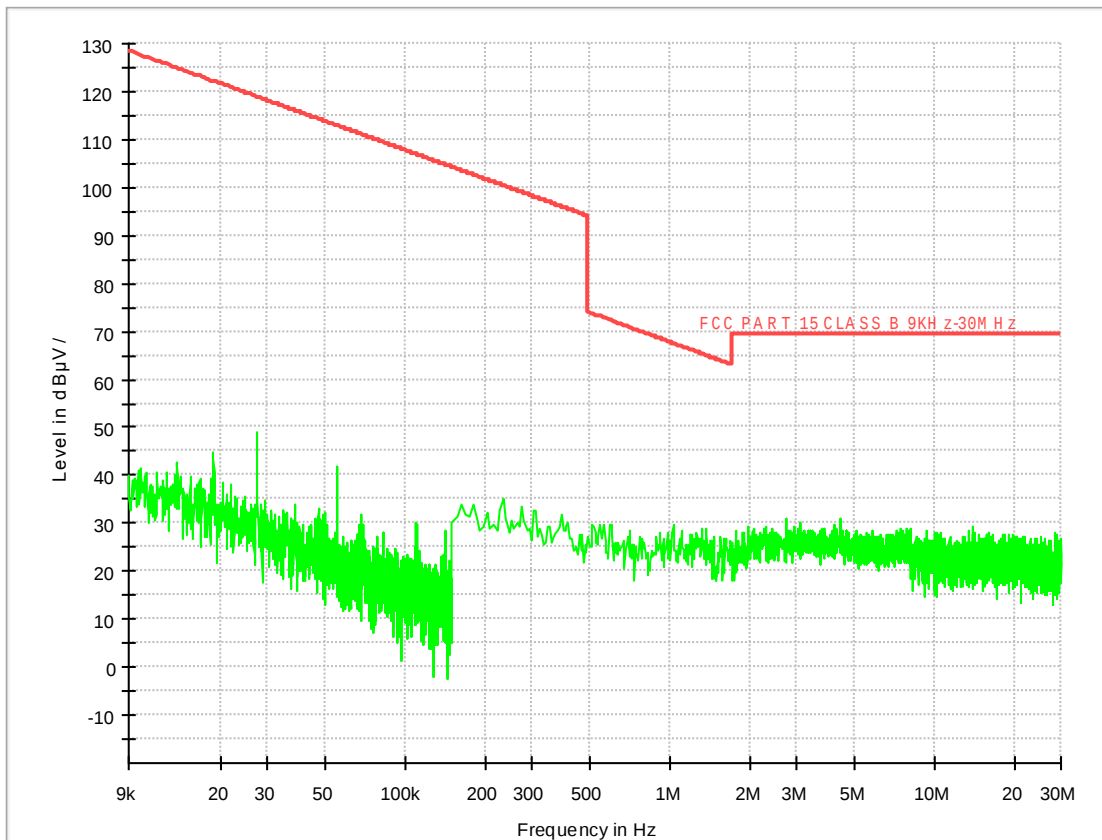
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



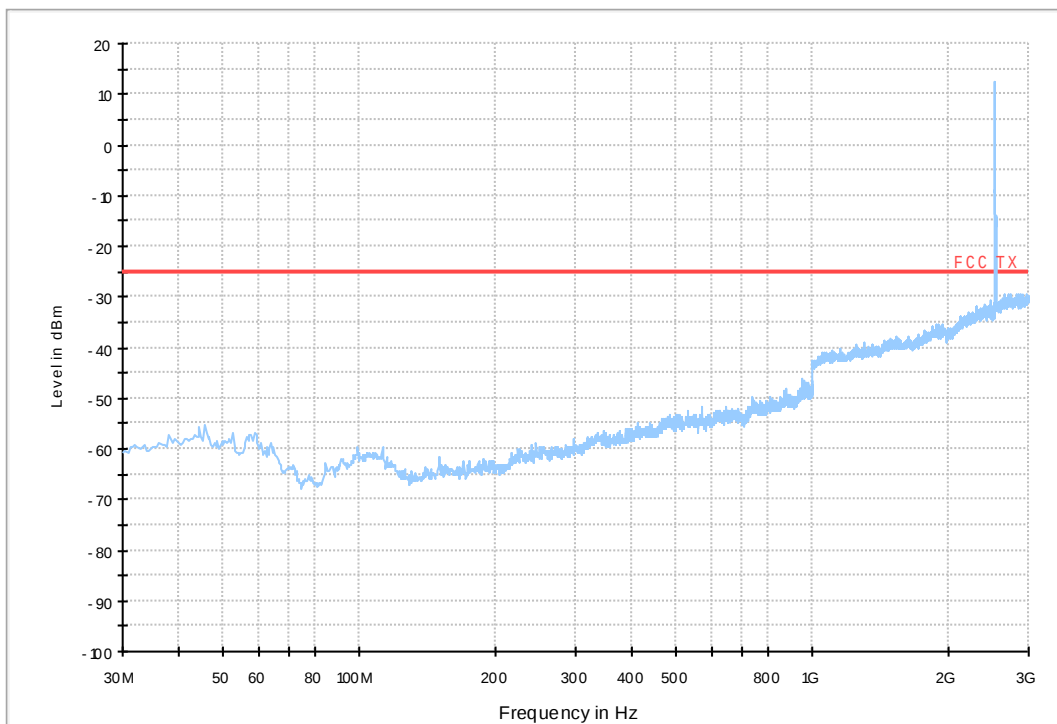
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



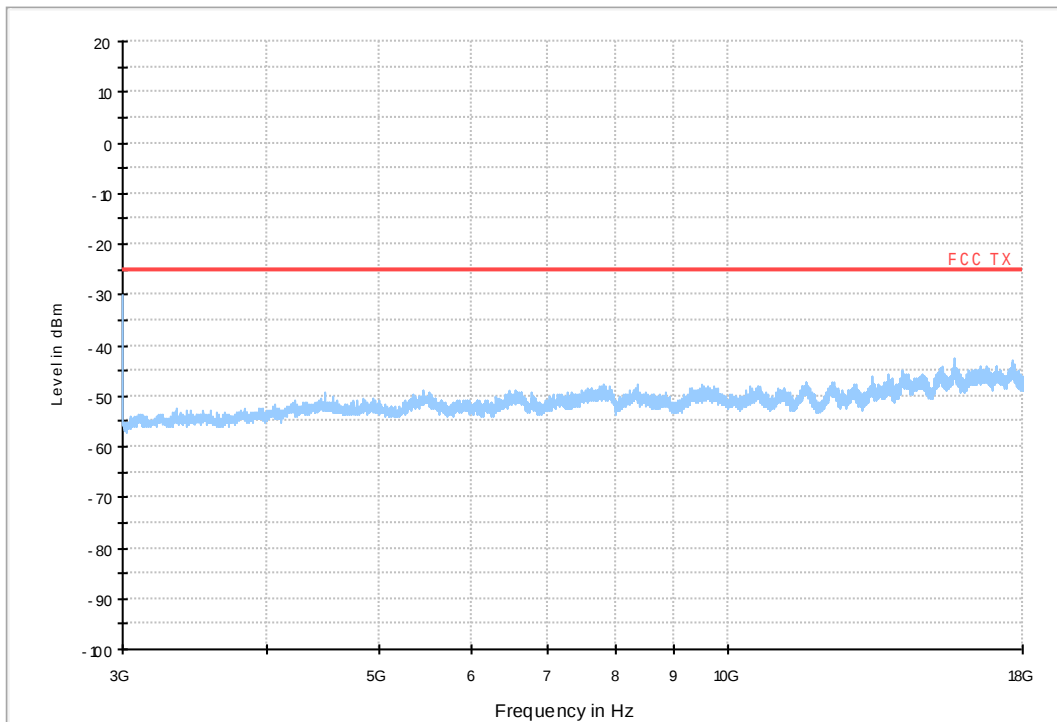
7.1.1.2 Test Bandwidth = 20



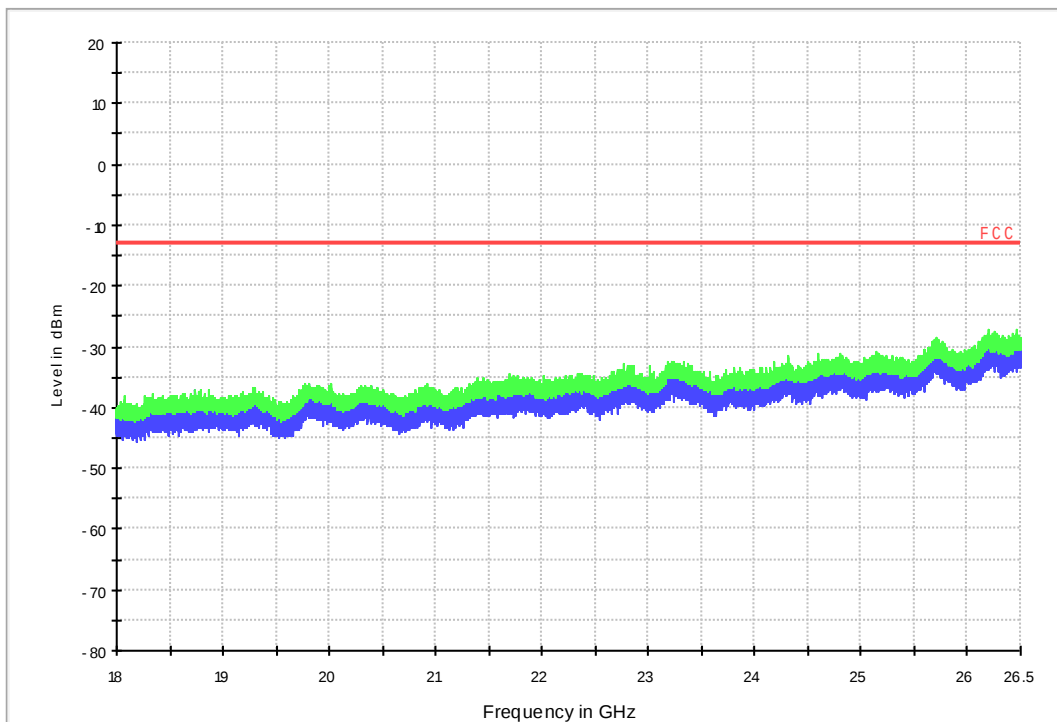
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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

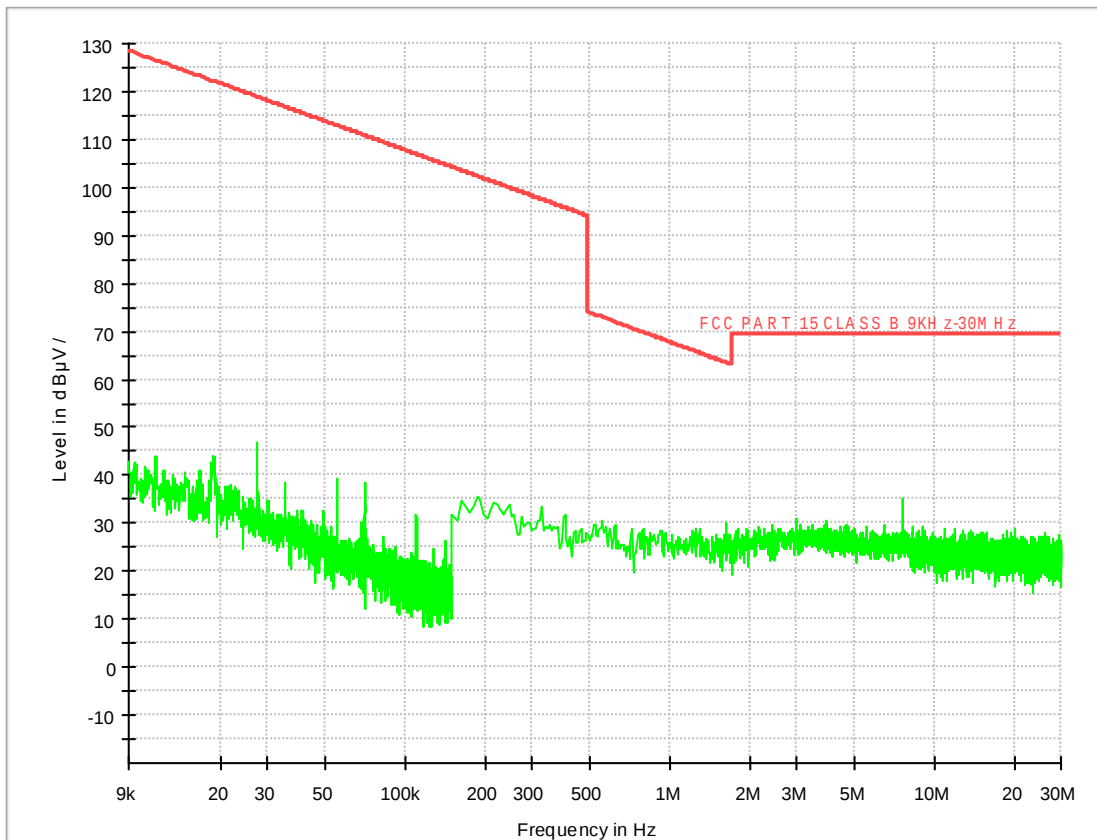


18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

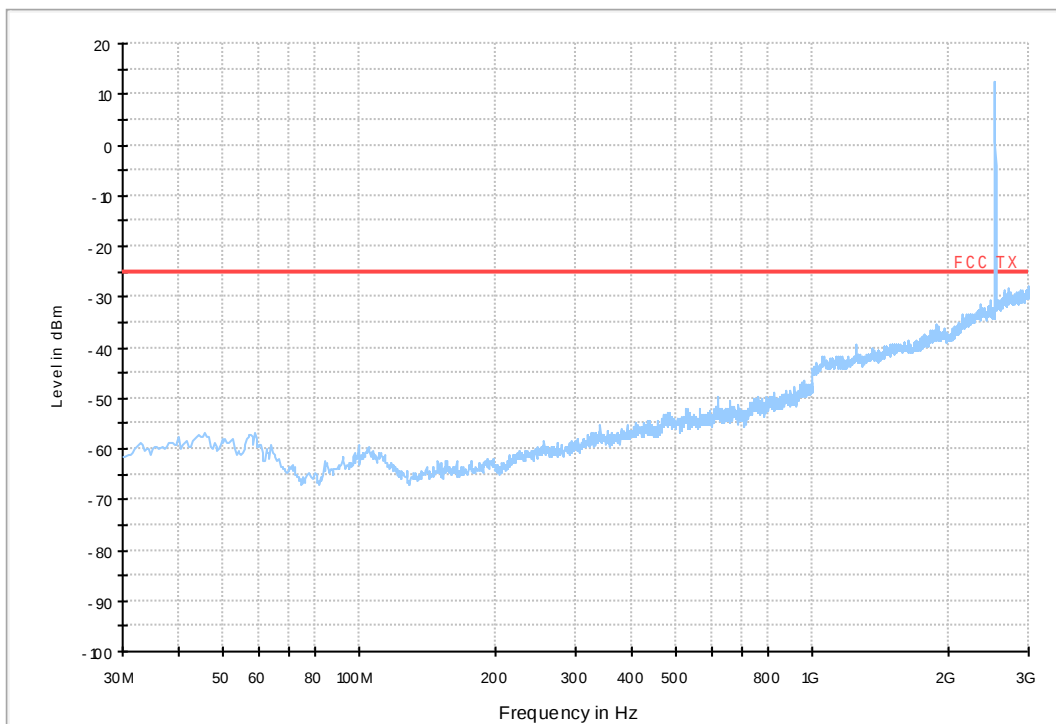


7.1.2 Test Band = BAND7_ANT2

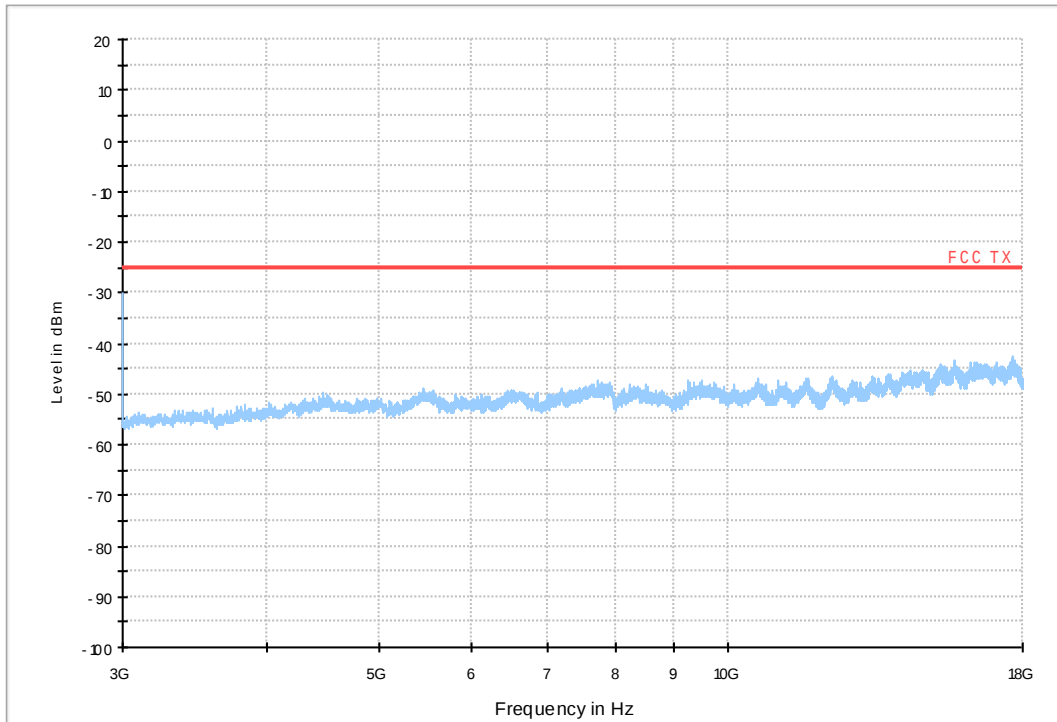
7.1.2.1 Test Bandwidth = 5



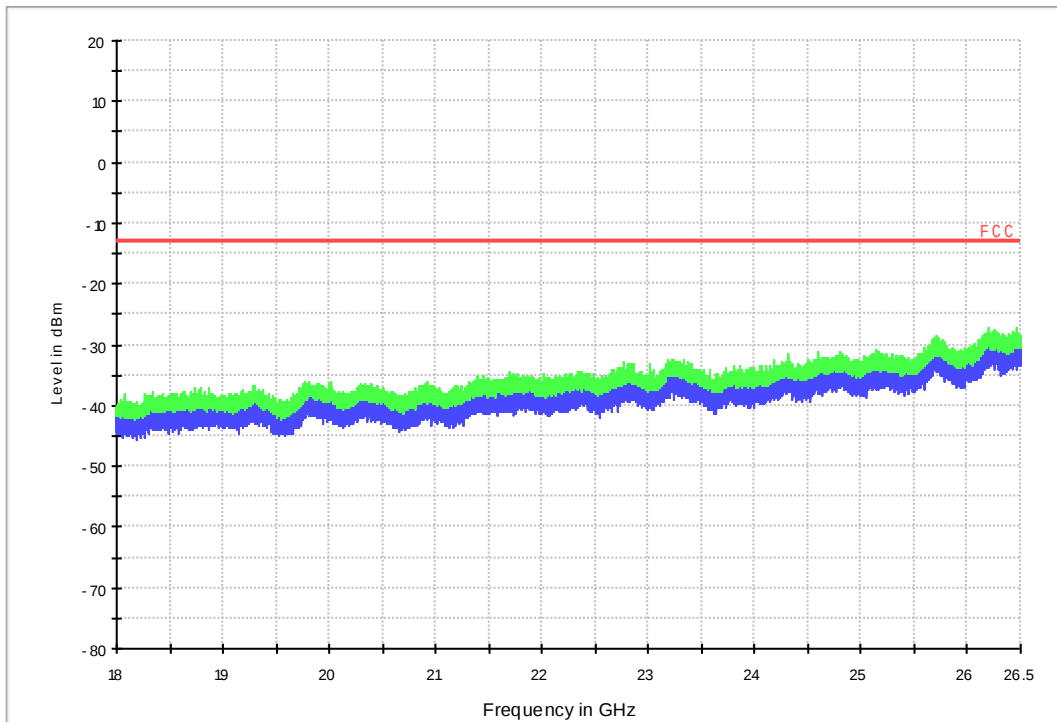
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



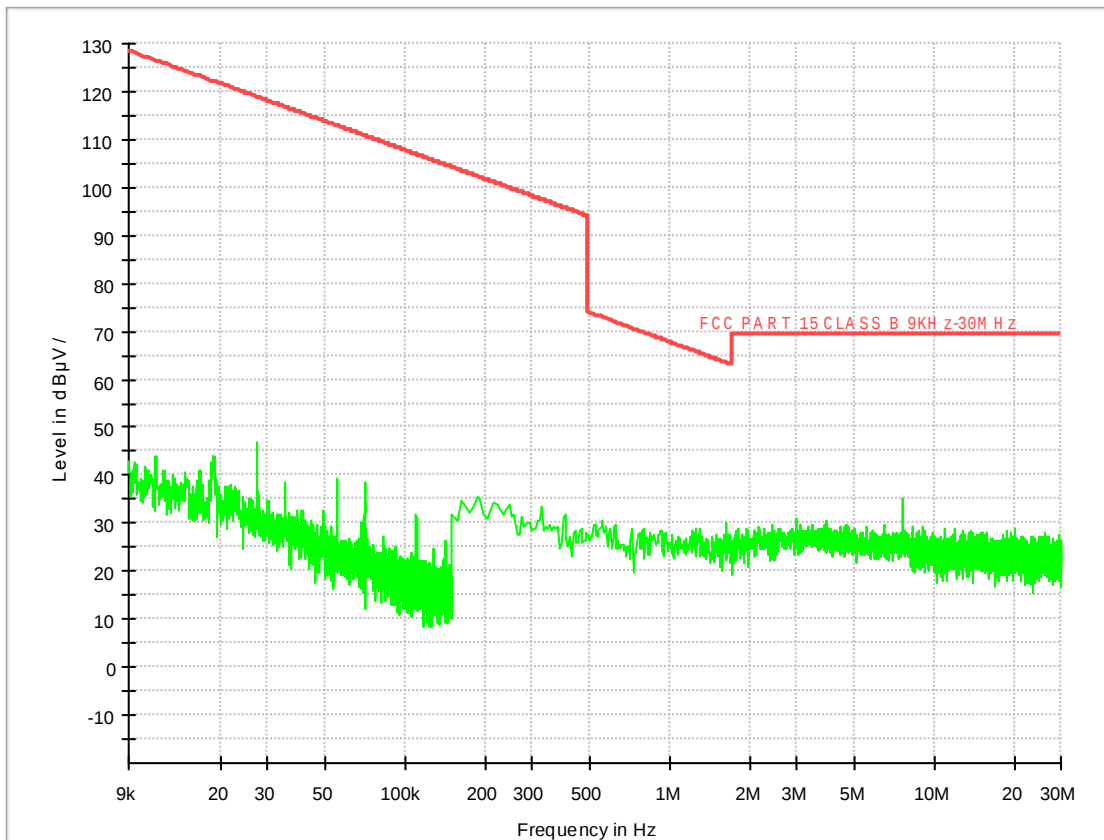
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



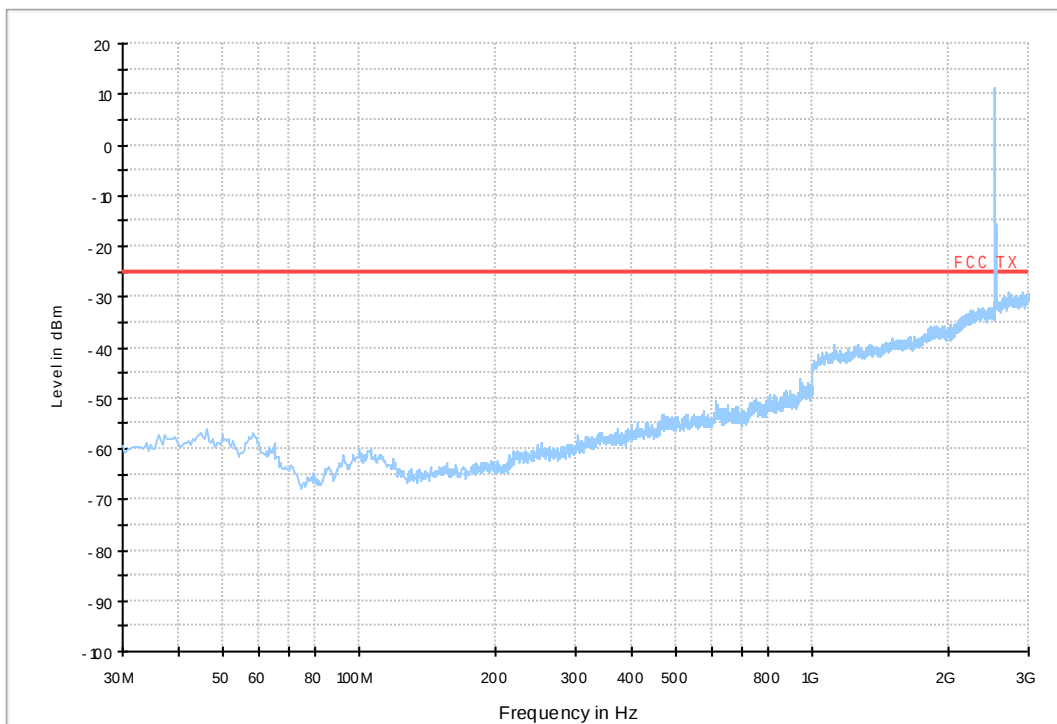
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



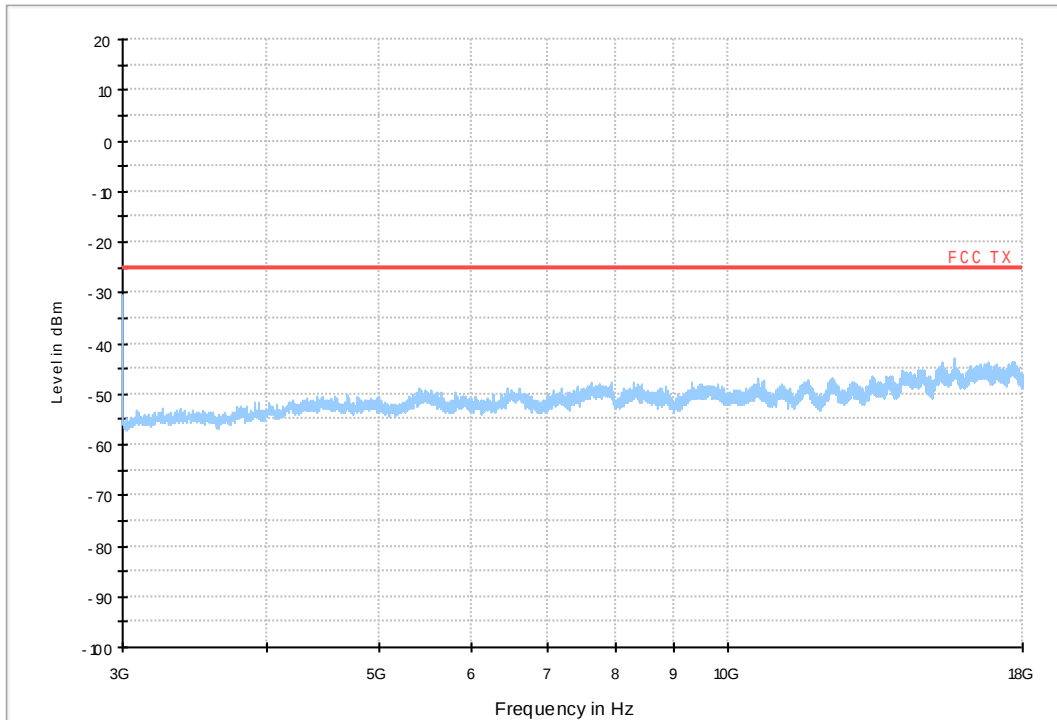
7.1.2.2 Test Bandwidth = 20



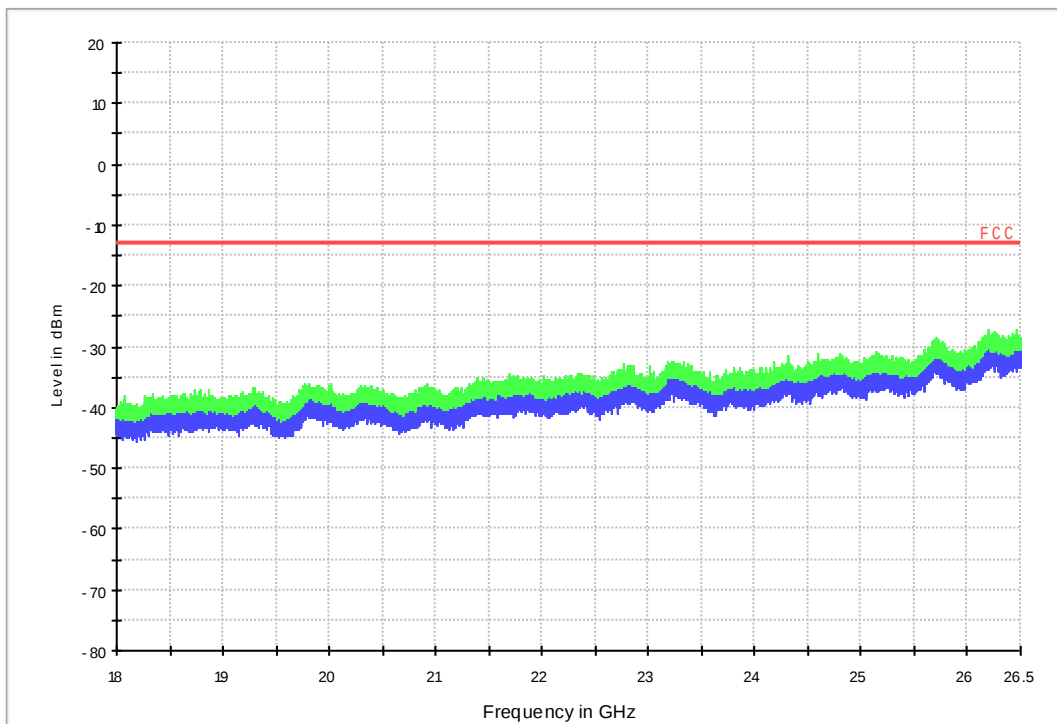
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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



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



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	-32.42	-0.01296	PASS
					VN	-1.56	-0.00062	PASS
					VH	-26.97	-0.01078	PASS
			MCH	TN	VL	-0.16	-0.00006	PASS
					VN	-2.98	-0.00118	PASS
					VH	-4.02	-0.00159	PASS
			HCH	TN	VL	-18.67	-0.00727	PASS
					VN	-0.57	-0.00022	PASS
					VH	-3.49	-0.00136	PASS
		10	LCH	TN	VL	-9.96	-0.00398	PASS
					VN	-15.05	-0.00601	PASS
					VH	-11.60	-0.00463	PASS
			MCH	TN	VL	-3.69	-0.00146	PASS
					VN	-3.59	-0.00142	PASS
					VH	-1.76	-0.00069	PASS
			HCH	TN	VL	-3.98	-0.00155	PASS
					VN	-6.15	-0.0024	PASS
					VH	-4.51	-0.00176	PASS
		15	LCH	TN	VL	-3.99	-0.00159	PASS
					VN	-1.26	-0.0005	PASS
					VH	-5.56	-0.00222	PASS
			MCH	TN	VL	-9.30	-0.00367	PASS
					VN	-1.49	-0.00059	PASS
					VH	-2.30	-0.00091	PASS
			HCH	TN	VL	-2.82	-0.0011	PASS
					VN	-2.09	-0.00082	PASS
					VH	-3.79	-0.00148	PASS
		20	LCH	TN	VL	-3.02	-0.0012	PASS
					VN	-3.88	-0.00155	PASS
					VH	-1.26	-0.0005	PASS
			MCH	TN	VL	-1.29	-0.00051	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	-1.03	-0.00041	PASS
					VH	-2.06	-0.00081	PASS
					VL	0.70	0.00027	PASS
					VN	0.40	0.00016	PASS
					VH	0.13	0.00005	PASS
		5	LCH	TN	VL	-2.95	-0.00118	PASS
					VN	-3.15	-0.00126	PASS
					VH	-5.05	-0.00202	PASS
			MCH	TN	VL	-1.04	-0.00041	PASS
					VN	-1.65	-0.00065	PASS
					VH	-16.94	-0.00668	PASS
			HCH	TN	VL	-6.04	-0.00235	PASS
					VN	-1.80	-0.0007	PASS
					VH	-0.51	-0.0002	PASS
		10	LCH	TN	VL	-9.63	-0.00384	PASS
					VN	-8.93	-0.00356	PASS
					VH	-5.49	-0.00219	PASS
			MCH	TN	VL	-3.48	-0.00137	PASS
					VN	-2.27	-0.0009	PASS
					VH	-0.41	-0.00016	PASS
			HCH	TN	VL	-3.73	-0.00145	PASS
					VN	-10.34	-0.00403	PASS
					VH	-2.27	-0.00088	PASS
		15	LCH	TN	VL	-4.03	-0.00161	PASS
					VN	-6.45	-0.00257	PASS
					VH	-2.66	-0.00106	PASS
			MCH	TN	VL	-2.03	-0.0008	PASS
					VN	0.54	0.00021	PASS
					VH	-7.25	-0.00286	PASS
			HCH	TN	VL	-0.77	-0.0003	PASS
					VN	-3.02	-0.00118	PASS
					VH	-0.94	-0.00037	PASS
		20	LCH	TN	VL	-1.29	-0.00051	PASS
					VN	-2.73	-0.00109	PASS
					VH	-1.29	-0.00051	PASS
			MCH	TN	VL	-3.50	-0.00138	PASS
					VN	-1.92	-0.00076	PASS
					VH	-2.98	-0.00118	PASS
			HCH	TN	VL	0.83	0.00032	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.63	0.00025	PASS
					VH	0.86	0.00034	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	-2.37	-0.00095	PASS
					-20	-1.69	-0.00068	PASS
					-10	-14.63	-0.00585	PASS
					0	-2.50	-0.001	PASS
					10	-3.68	-0.00147	PASS
					20	-1.79	-0.00072	PASS
					30	-4.79	-0.00191	PASS
					40	-15.49	-0.00619	PASS
					50	-34.55	-0.01381	PASS
			MCH	VN	-30	-19.07	-0.00752	PASS
					-20	-27.08	-0.01068	PASS
					-10	-23.12	-0.00912	PASS
					0	-2.63	-0.00104	PASS
					10	-26.92	-0.01062	PASS
					20	-0.53	-0.00021	PASS
					30	-5.25	-0.00207	PASS
					40	0.19	0.00007	PASS
					50	-2.00	-0.00079	PASS
			HCH	VN	-30	-2.35	-0.00092	PASS
					-20	-13.68	-0.00533	PASS
					-10	-1.86	-0.00072	PASS
					0	-29.18	-0.01137	PASS
					10	-1.20	-0.00047	PASS
					20	-3.26	-0.00127	PASS
					30	-0.41	-0.00016	PASS
					40	-6.39	-0.00249	PASS
					50	-1.80	-0.00007	PASS
		10	LCH	VN	-30	-6.21	-0.00248	PASS
					-20	-3.35	-0.00134	PASS
					-10	-5.89	-0.00235	PASS
					0	-9.68	-0.00386	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-3.13	-0.00125	PASS
					20	-10.56	-0.00422	PASS
					30	-10.90	-0.00435	PASS
					40	-8.91	-0.00356	PASS
					50	-6.91	-0.00276	PASS
			MCH	VN	-30	-3.86	-0.00152	PASS
					-20	-2.57	-0.00101	PASS
					-10	-14.16	-0.00559	PASS
					0	-2.68	-0.00106	PASS
					10	-8.75	-0.00345	PASS
					20	-3.09	-0.00122	PASS
					30	-1.49	-0.00059	PASS
					40	-1.14	-0.00045	PASS
					50	-2.69	-0.00106	PASS
			HCH	VN	-30	-1.72	-0.00067	PASS
					-20	-2.55	-0.00099	PASS
					-10	-3.26	-0.00127	PASS
					0	-1.97	-0.00077	PASS
					10	-1.63	-0.00064	PASS
					20	-4.84	-0.00189	PASS
					30	-6.38	-0.00249	PASS
					40	-3.28	-0.00128	PASS
					50	0.77	0.0003	PASS
		15	LCH	VN	-30	-2.22	-0.00089	PASS
					-20	-0.20	-0.00008	PASS
					-10	-2.62	-0.00104	PASS
					0	-1.93	-0.00077	PASS
					10	-2.36	-0.00094	PASS
					20	0.03	0.00001	PASS
					30	0.77	0.00031	PASS
					40	0.94	0.00037	PASS
					50	-2.10	-0.00084	PASS
			MCH	VN	-30	-1.76	-0.00069	PASS
					-20	-0.87	-0.00034	PASS
					-10	-0.96	-0.00038	PASS
					0	-7.77	-0.00307	PASS
					10	-1.44	-0.00057	PASS
					20	-0.34	-0.00013	PASS
					30	-0.90	-0.00036	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-10.60	-0.00418	PASS
					50	-9.08	-0.00358	PASS
			HCH	VN	-30	-1.37	-0.00053	PASS
					-20	-0.74	-0.00029	PASS
					-10	-4.81	-0.00188	PASS
					0	-0.66	-0.00026	PASS
					10	-5.72	-0.00223	PASS
					20	-0.60	-0.00023	PASS
					30	-2.88	-0.00112	PASS
					40	-1.77	-0.00069	PASS
					50	-0.26	-0.0001	PASS
		20	LCH	VN	-30	-2.60	-0.00104	PASS
					-20	-1.80	-0.00072	PASS
					-10	-2.36	-0.00094	PASS
					0	0.13	0.00005	PASS
					10	1.17	0.00047	PASS
					20	-0.06	-0.00002	PASS
					30	-1.66	-0.00066	PASS
					40	-2.65	-0.00106	PASS
					50	0.33	0.00013	PASS
			MCH	VN	-30	-3.02	-0.00119	PASS
					-20	-3.08	-0.00121	PASS
					-10	-0.57	-0.00022	PASS
					0	-2.80	-0.0011	PASS
					10	-3.20	-0.00126	PASS
					20	-1.32	-0.00052	PASS
					30	-2.75	-0.00108	PASS
					40	-1.30	-0.00051	PASS
					50	-1.50	-0.00059	PASS
			HCH	VN	-30	-3.06	-0.0012	PASS
					-20	-0.97	-0.00038	PASS
					-10	-2.35	-0.00092	PASS
					0	-1.23	-0.00048	PASS
					10	-2.25	-0.00088	PASS
					20	-2.92	-0.00114	PASS
					30	-0.82	-0.00032	PASS
					40	-2.03	-0.00079	PASS
					50	-2.53	-0.00099	PASS
	LTE/TM2	5	LCH	VN	-30	-0.54	-0.00022	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.33	0.00013	PASS
					-10	-0.94	-0.00038	PASS
					0	-1.49	-0.0006	PASS
					10	-31.23	-0.01248	PASS
					20	0.04	0.00002	PASS
					30	-0.51	-0.0002	PASS
					40	-4.32	-0.00173	PASS
					50	-31.29	-0.0125	PASS
			MCH	VN	-30	0.47	0.00019	PASS
					-20	-1.87	-0.00074	PASS
					-10	-0.37	-0.00015	PASS
					0	-1.33	-0.00052	PASS
					10	-34.48	-0.0136	PASS
					20	-30.96	-0.01221	PASS
					30	-21.86	-0.00862	PASS
					40	-0.57	-0.00022	PASS
					50	-4.59	-0.00181	PASS
			HCH	VN	-30	-5.04	-0.00196	PASS
					-20	-2.27	-0.00088	PASS
					-10	-18.07	-0.00704	PASS
					0	-19.68	-0.00767	PASS
					10	-0.77	-0.0003	PASS
					20	-0.39	-0.00015	PASS
					30	-1.83	-0.00071	PASS
					40	-0.56	-0.00022	PASS
					50	-30.04	-0.0117	PASS
		10	LCH	VN	-30	-5.58	-0.00223	PASS
					-20	0.50	0.0002	PASS
					-10	-2.16	-0.00086	PASS
					0	0.89	0.00036	PASS
					10	-8.25	-0.00329	PASS
					20	1.79	0.00071	PASS
					30	-3.06	-0.00122	PASS
					40	2.32	0.00093	PASS
					50	-3.58	-0.00143	PASS
			MCH	VN	-30	-14.85	-0.00586	PASS
					-20	-2.50	-0.00099	PASS
					-10	0.13	0.00005	PASS
					0	-14.12	-0.00557	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.21	-0.00008	PASS
					20	-0.92	-0.00036	PASS
					30	-0.70	-0.00028	PASS
					40	-2.50	-0.00099	PASS
					50	-2.35	-0.00093	PASS
			HCH	VN	-30	-3.26	-0.00127	PASS
					-20	-1.20	-0.00047	PASS
					-10	0.23	0.00009	PASS
					0	-0.09	-0.00004	PASS
					10	-6.65	-0.00259	PASS
					20	-0.89	-0.00035	PASS
					30	-14.03	-0.00547	PASS
					40	-2.36	-0.00092	PASS
					50	-0.90	-0.00035	PASS
		15	LCH	VN	-30	2.05	0.00082	PASS
					-20	-0.21	-0.00008	PASS
					-10	-0.40	-0.00016	PASS
					0	-0.10	-0.00004	PASS
					10	0.94	0.00037	PASS
					20	3.45	0.00138	PASS
					30	3.32	0.00132	PASS
					40	2.66	0.00106	PASS
					50	1.65	0.00066	PASS
			MCH	VN	-30	-9.67	-0.00381	PASS
					-20	-0.30	-0.00012	PASS
					-10	-7.40	-0.00292	PASS
					0	-4.39	-0.00173	PASS
					10	-6.04	-0.00238	PASS
					20	-1.12	-0.00044	PASS
					30	-1.37	-0.00054	PASS
					40	-3.38	-0.00133	PASS
					50	-1.86	-0.00073	PASS
			HCH	VN	-30	-2.39	-0.00093	PASS
					-20	-2.50	-0.00098	PASS
					-10	-2.13	-0.00083	PASS
					0	-2.89	-0.00113	PASS
					10	-1.23	-0.00048	PASS
					20	-1.99	-0.00078	PASS
					30	-0.73	-0.00028	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-1.96	-0.00076	PASS
					50	-2.22	-0.00087	PASS
		20	LCH	VN	-30	-2.07	-0.00082	PASS
					-20	1.23	0.00049	PASS
					-10	-4.09	-0.00163	PASS
					0	-2.13	-0.00085	PASS
					10	-1.54	-0.00061	PASS
					20	0.49	0.0002	PASS
					30	-1.67	-0.00067	PASS
					40	1.24	0.00049	PASS
					50	0.46	0.00018	PASS
			MCH	VN	-30	-0.62	-0.00024	PASS
					-20	-0.83	-0.00033	PASS
					-10	-1.93	-0.00076	PASS
					0	-1.54	-0.00061	PASS
					10	0.86	0.00034	PASS
					20	-1.32	-0.00052	PASS
					30	-0.89	-0.00035	PASS
					40	-1.00	-0.00039	PASS
					50	0.47	0.00019	PASS
			HCH	VN	-30	-0.97	-0.00038	PASS
					-20	0.90	0.00035	PASS
					-10	-0.90	-0.00035	PASS
					0	-1.30	-0.00051	PASS
					10	-1.03	-0.0004	PASS
					20	0.04	0.00002	PASS
					30	-0.46	-0.00018	PASS
					40	0.62	0.00024	PASS
					50	0.09	0.00004	PASS

END