





6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0









6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0









6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0









6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0









6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

















6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0









6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0









6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0









6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0









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

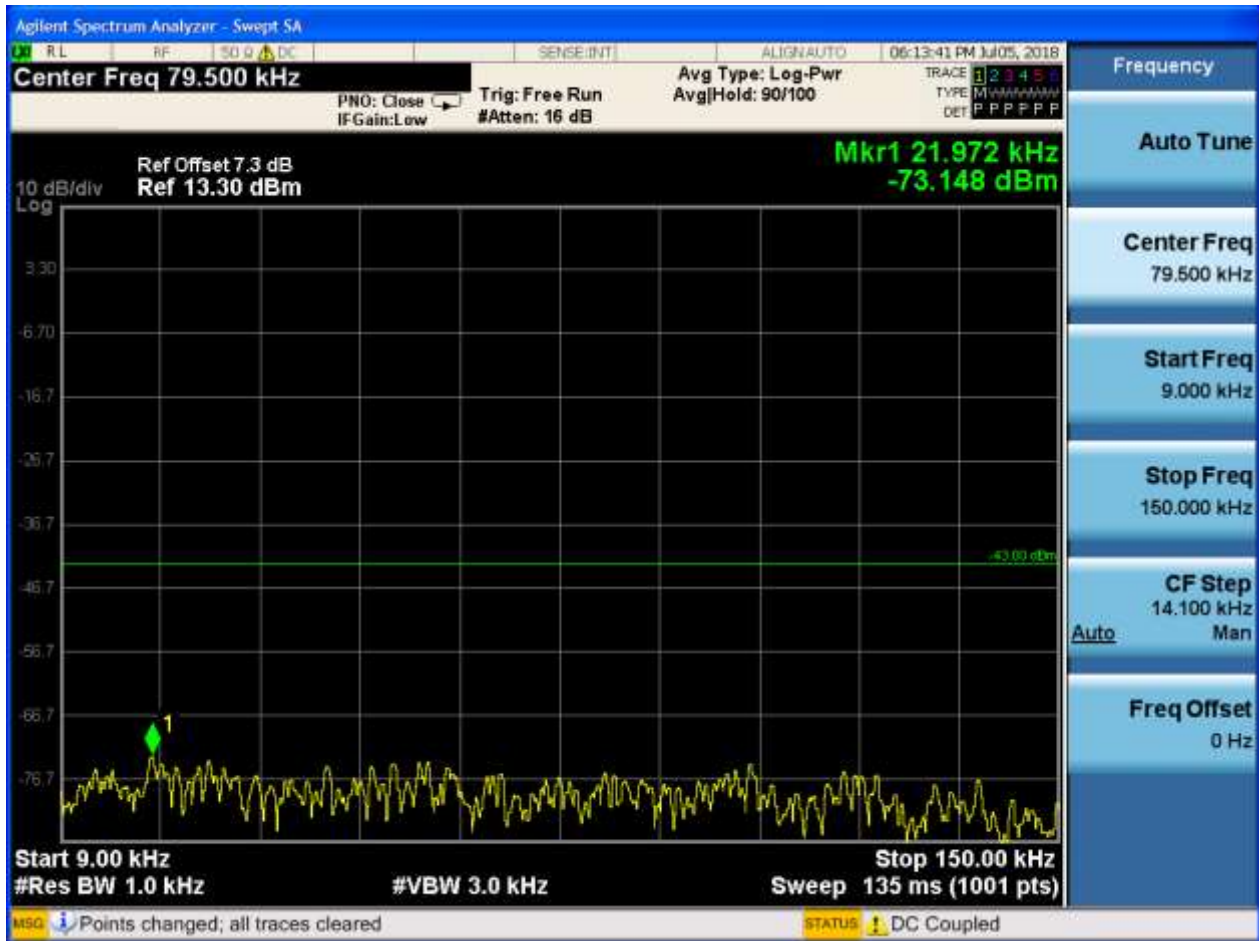






6.1.1.2.4.2 Test Channel = MCH

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

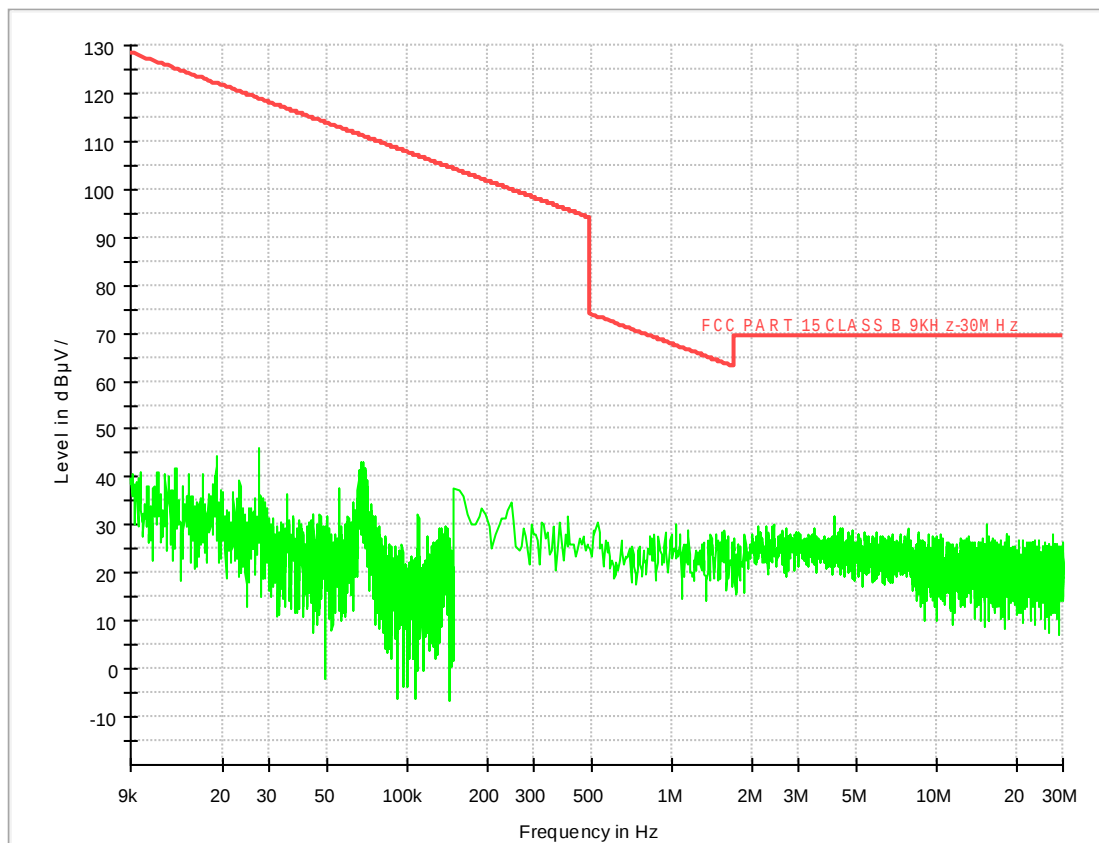
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

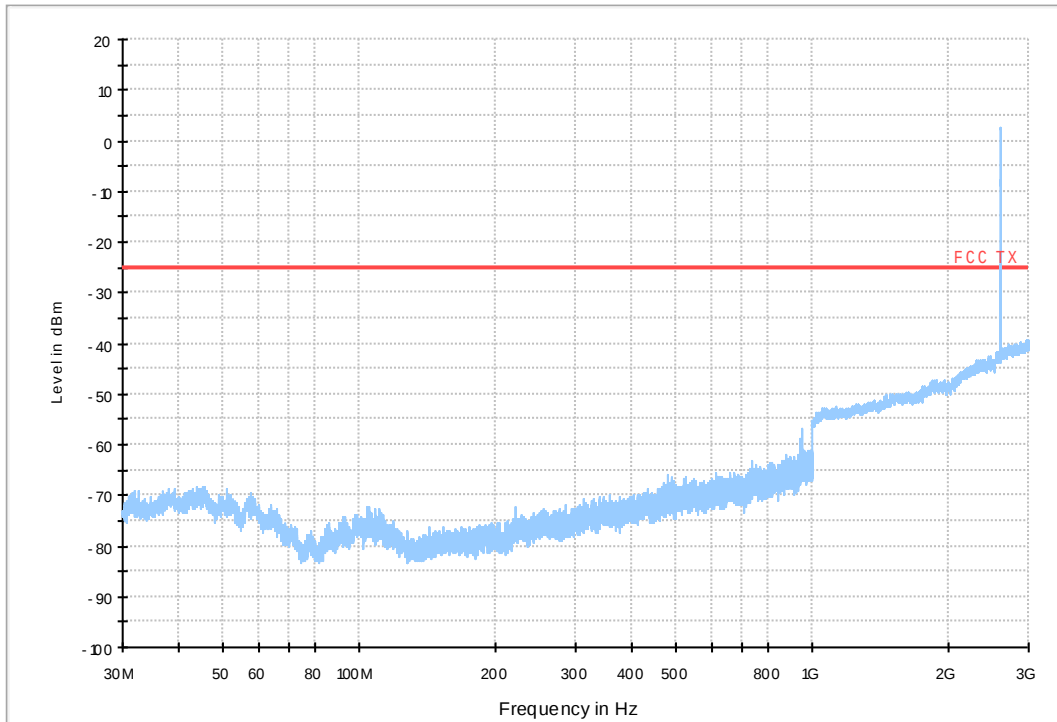
7.1 For LTE

7.1.1 Test Band = BAND41-Ant1

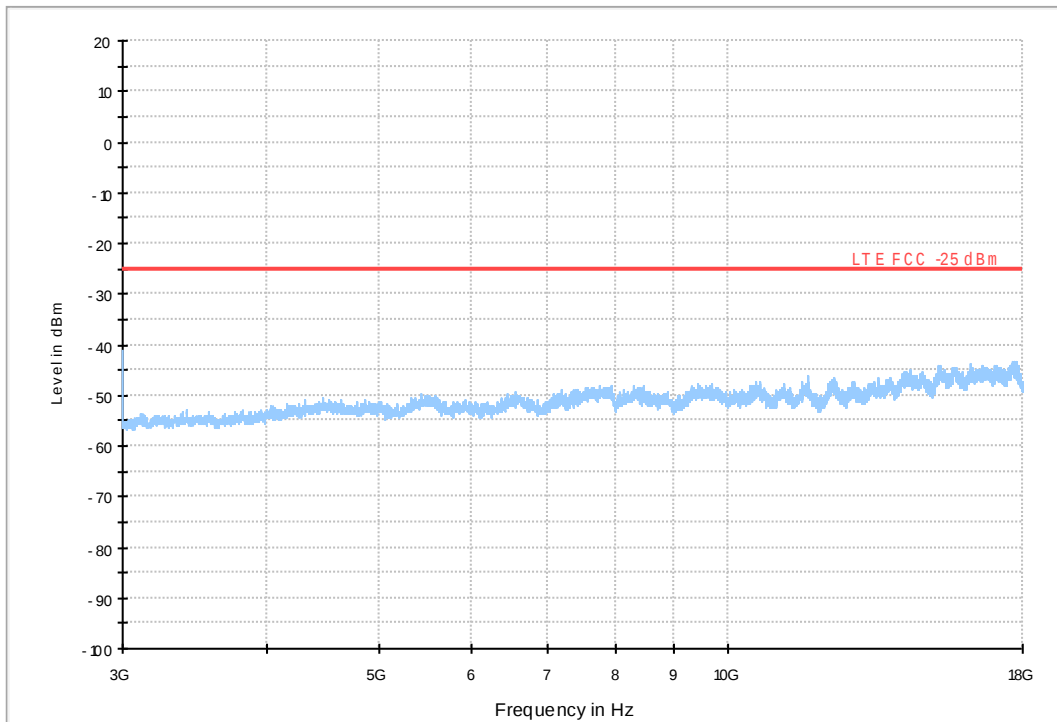
7.1.1.1 Test Bandwidth = 5



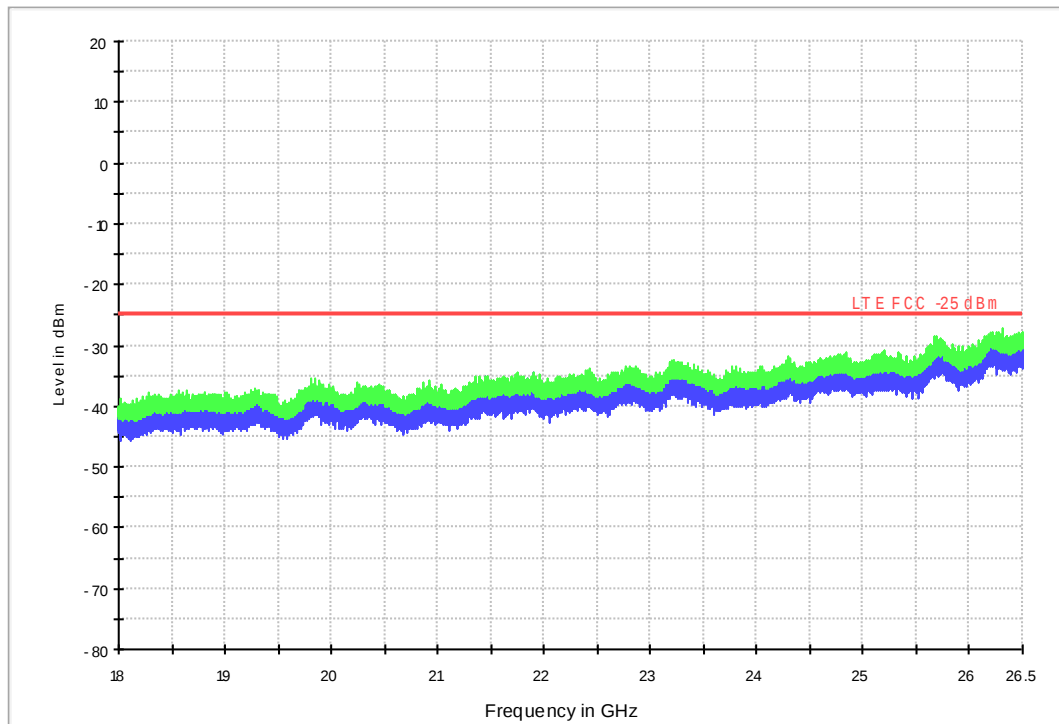
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



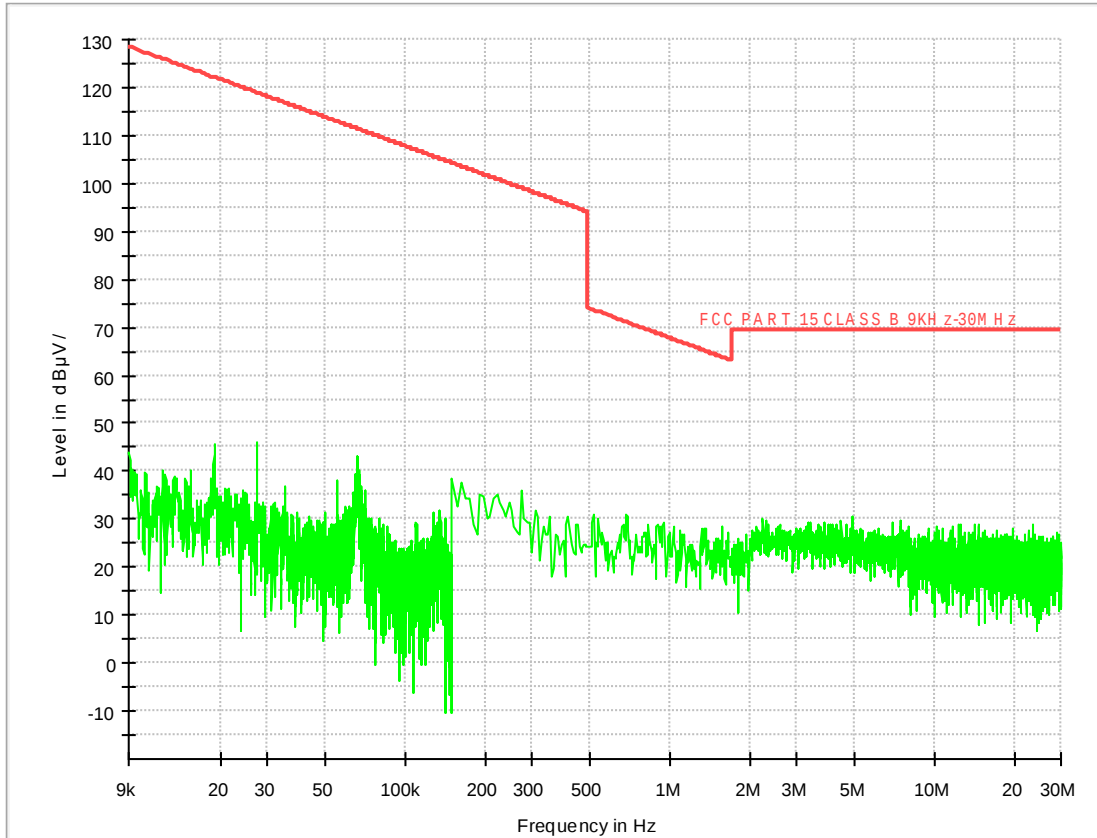
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



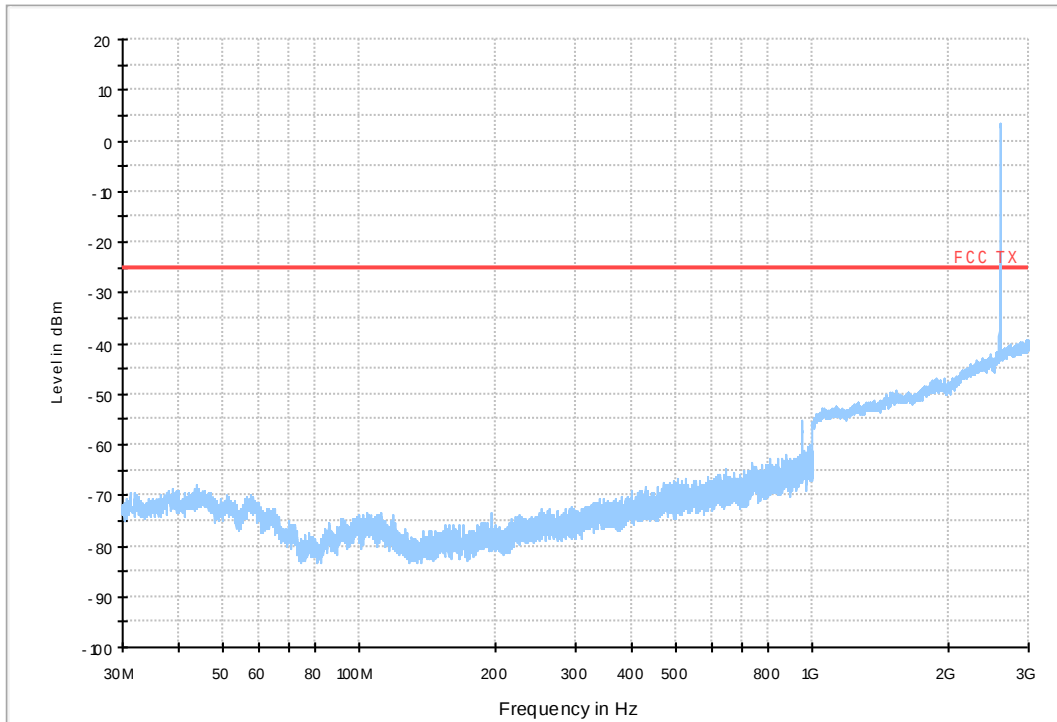
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



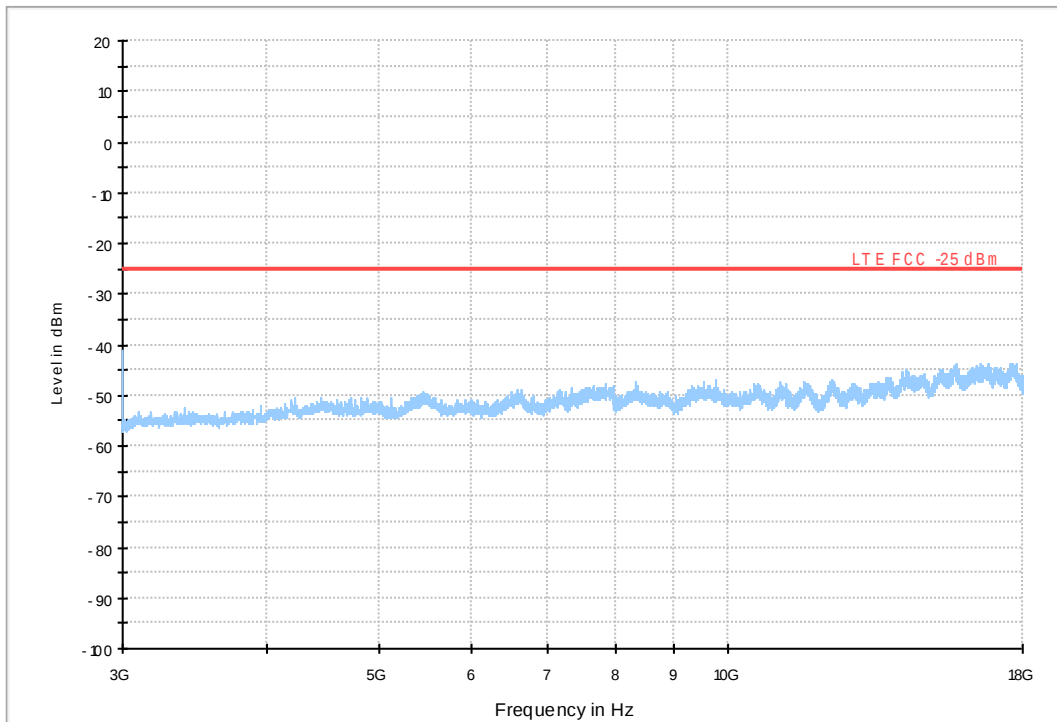
7.1.1.2 Test Bandwidth = 20



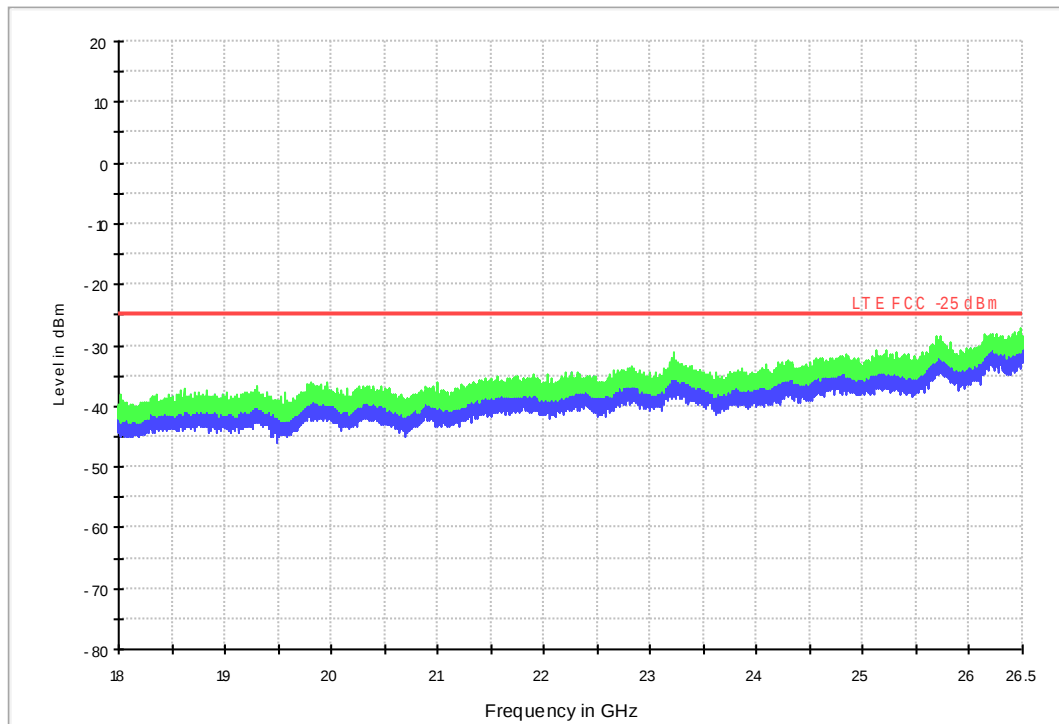
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit

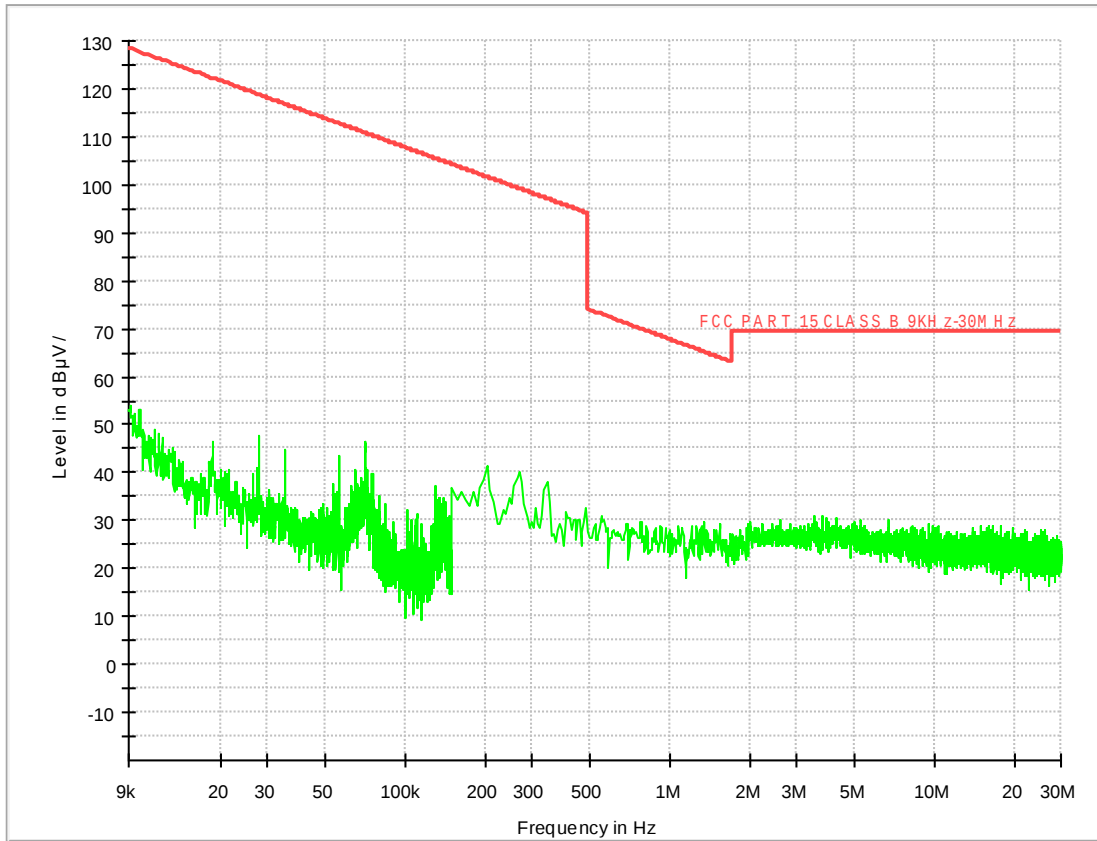


18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

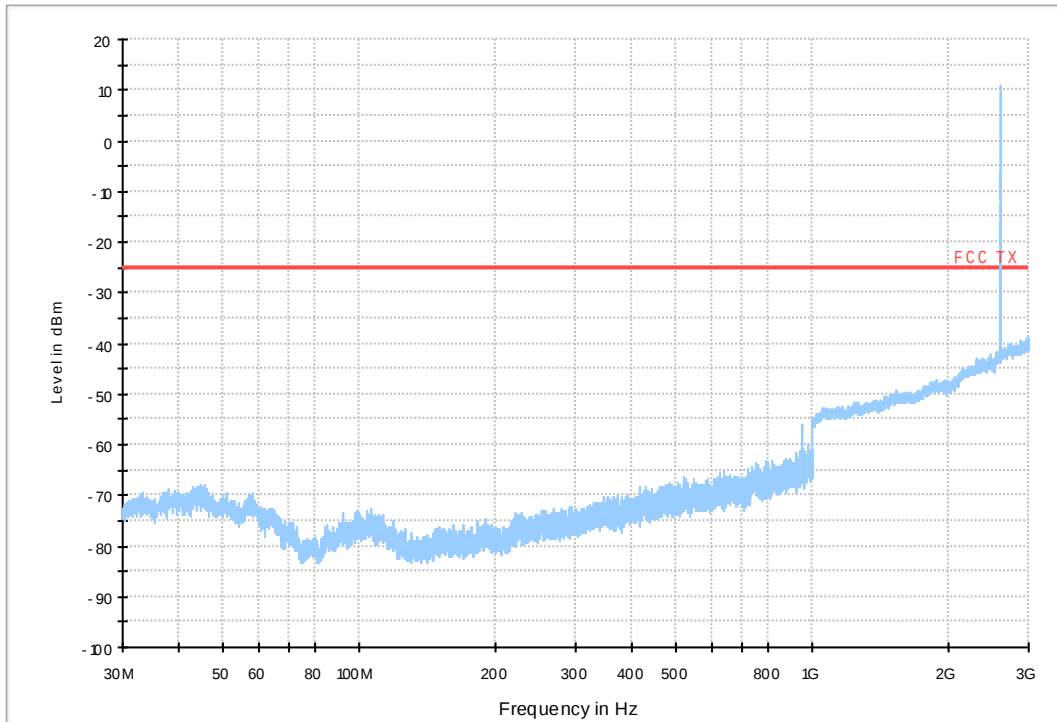


7.1.2 Test Band = BAND41-Ant2

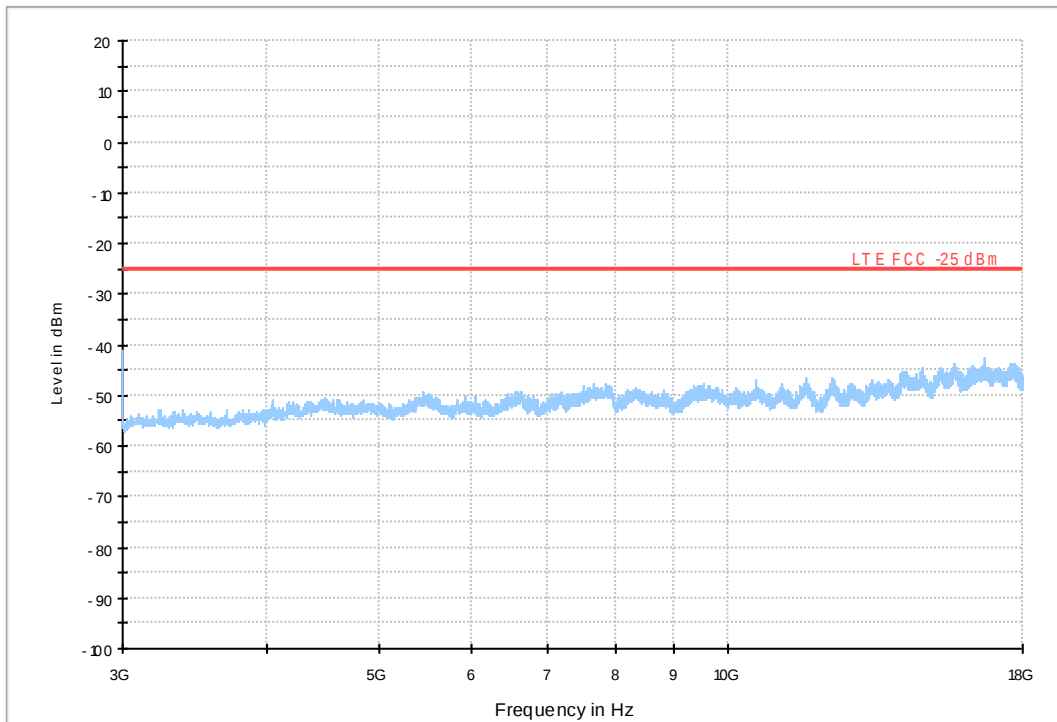
7.1.2.1 Test Bandwidth = 5



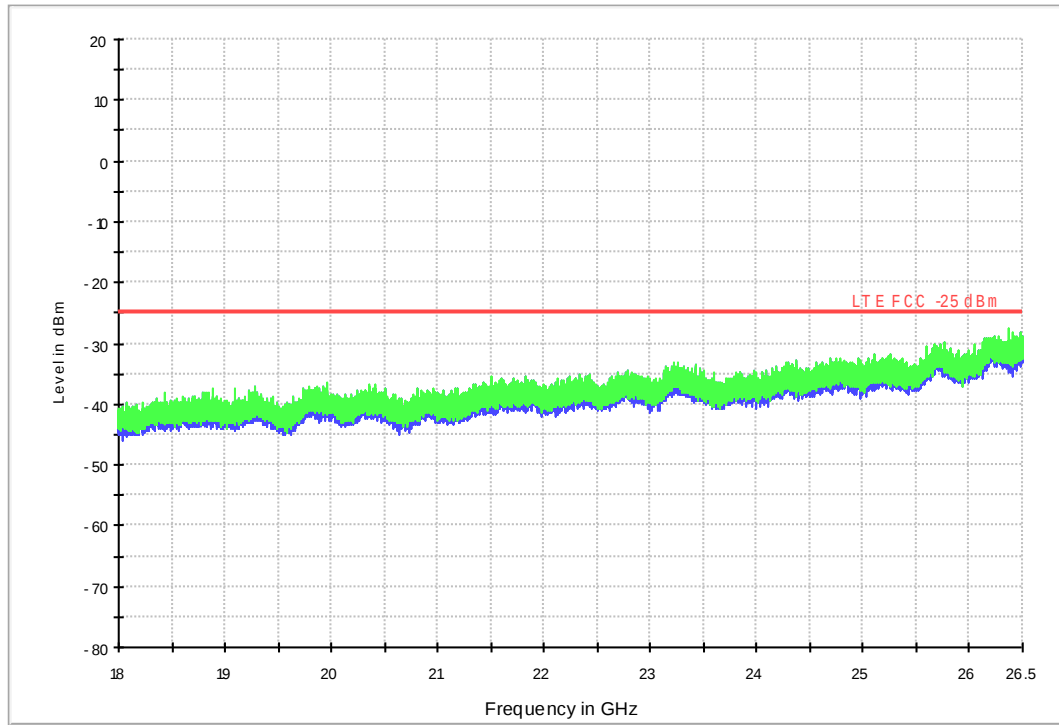
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



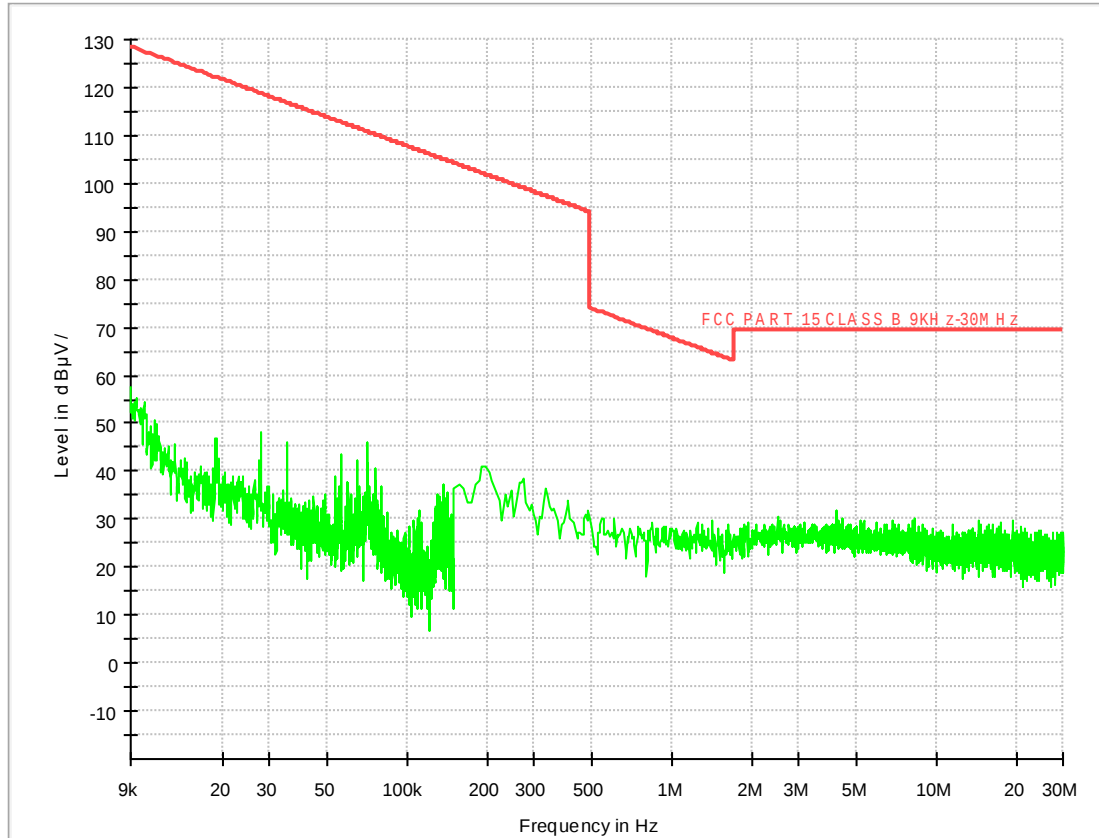
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



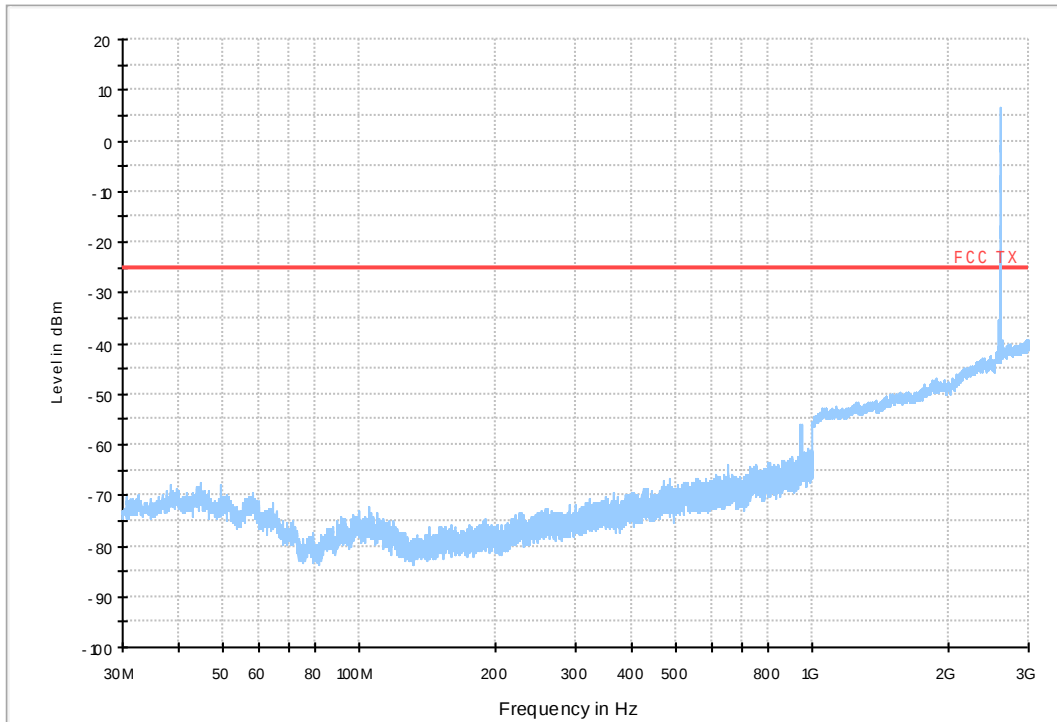
18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



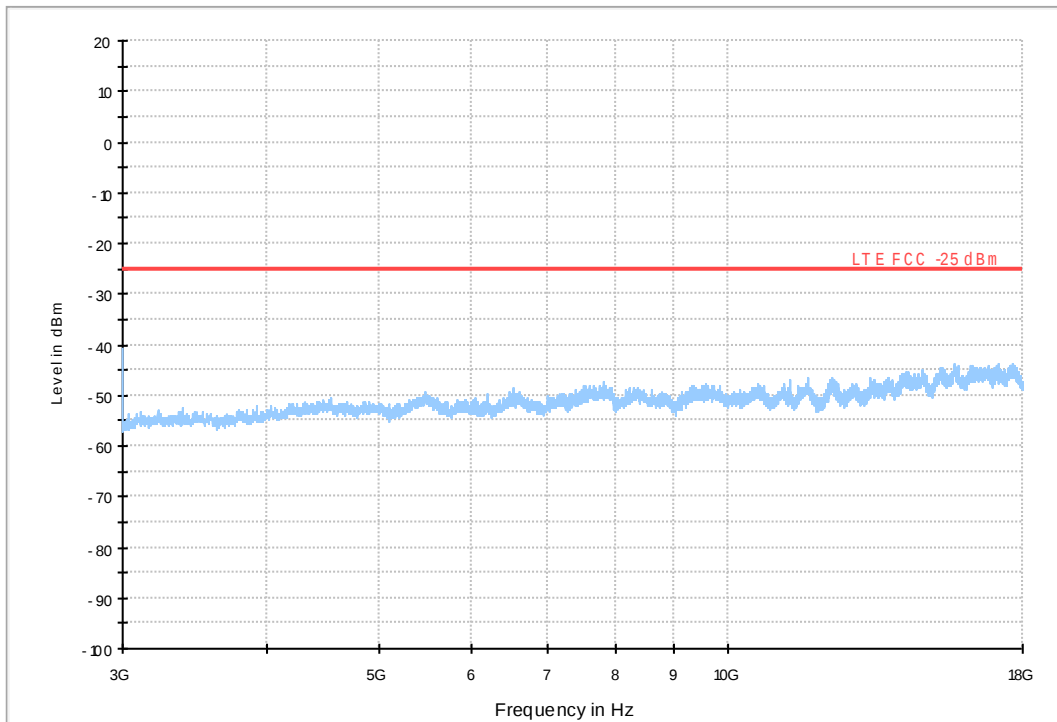
7.1.2.2 Test Bandwidth = 20



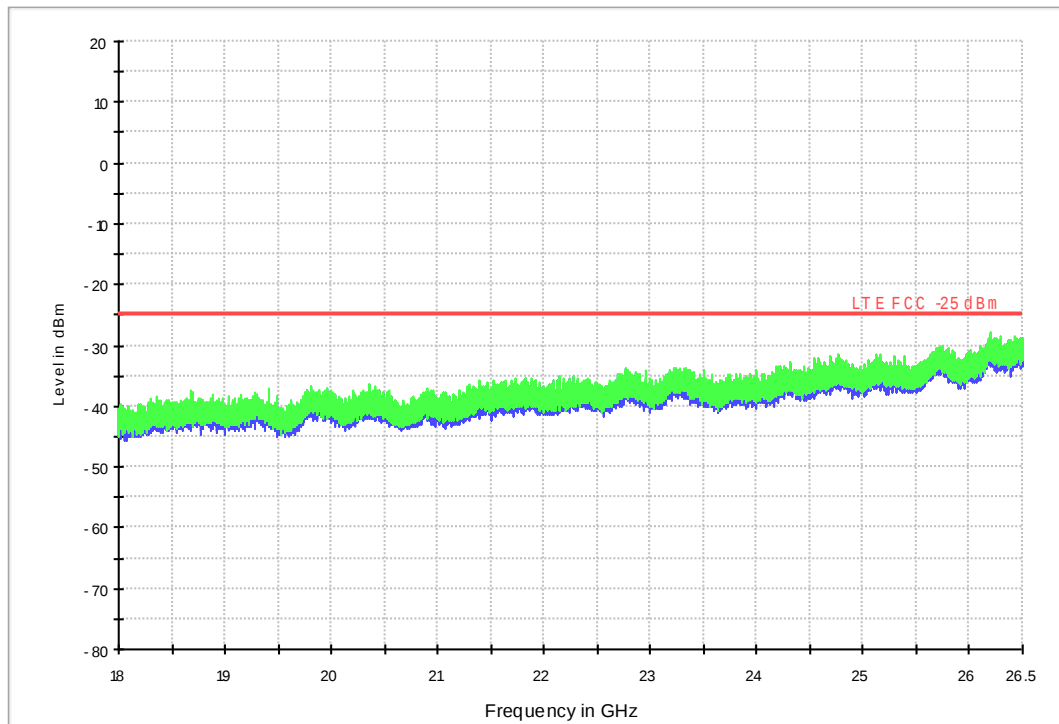
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE TDD Band 38&41 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

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND41	LTE/TM1	5	LCH	TN	VL	-18.01	-0.00707	PASS
					VN	-20.44	-0.00802	PASS
					VH	-11.86	-0.00466	PASS
			MCH	TN	VL	-24.62	-0.00947	PASS
					VN	-21.99	-0.00846	PASS
					VH	-20.96	-0.00806	PASS
			HCH	TN	VL	-19.40	-0.00731	PASS
					VN	-32.54	-0.01227	PASS
					VH	-14.79	-0.00558	PASS
		10	LCH	TN	VL	-15.08	-0.00591	PASS
					VN	-24.02	-0.00942	PASS
					VH	-13.72	-0.00538	PASS
			MCH	TN	VL	-10.29	-0.00396	PASS
					VN	-23.70	-0.00912	PASS
					VH	-22.82	-0.00878	PASS
			HCH	TN	VL	-29.67	-0.0112	PASS
					VN	-31.64	-0.01194	PASS
					VH	-30.93	-0.01167	PASS
		15	LCH	TN	VL	-16.24	-0.00636	PASS
					VN	-22.73	-0.0089	PASS
					VH	-18.81	-0.00737	PASS
			MCH	TN	VL	-27.57	-0.0106	PASS
					VN	-21.92	-0.00843	PASS
					VH	-19.90	-0.00765	PASS
			HCH	TN	VL	-22.17	-0.00837	PASS
					VN	-30.74	-0.01161	PASS
					VH	-30.33	-0.01146	PASS
		20	LCH	TN	VL	-13.58	-0.00532	PASS
					VN	-19.23	-0.00753	PASS
					VH	-19.35	-0.00757	PASS
			MCH	TN	VL	-21.26	-0.00818	PASS
					VN	-21.11	-0.00812	PASS
					VH	-21.57	-0.0083	PASS
			HCH	TN	VL	-34.03	-0.01287	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-23.75	-0.00898	PASS
					VH	-21.62	-0.00817	PASS
		5	LCH	TN	VL	-16.84	-0.00661	PASS
					VN	-29.98	-0.01177	PASS
					VH	-19.81	-0.00778	PASS
					VL	-15.23	-0.00586	PASS
			MCH	TN	VN	-24.89	-0.00957	PASS
					VH	-21.67	-0.00833	PASS
					VL	-16.88	-0.00636	PASS
					VN	-21.64	-0.00816	PASS
					VH	-33.63	-0.01268	PASS
			HCH	TN	VL	-16.88	-0.00636	PASS
					VN	-21.64	-0.00816	PASS
					VH	-33.63	-0.01268	PASS
		10	LCH	TN	VL	-21.69	-0.00851	PASS
					VN	-20.38	-0.00799	PASS
					VH	-24.50	-0.00961	PASS
					VL	-20.40	-0.00785	PASS
			MCH	TN	VN	-21.93	-0.00843	PASS
					VH	-26.29	-0.01011	PASS
					VL	-19.67	-0.00742	PASS
					VN	-35.03	-0.01322	PASS
					VH	-19.88	-0.0075	PASS
			HCH	TN	VL	-15.66	-0.00614	PASS
					VN	-22.60	-0.00885	PASS
					VH	-17.32	-0.00679	PASS
		15	LCH	TN	VL	-19.97	-0.00768	PASS
					VN	-19.70	-0.00758	PASS
					VH	-19.87	-0.00764	PASS
			MCH	TN	VL	-19.97	-0.00768	PASS
					VN	-19.70	-0.00758	PASS
					VH	-19.87	-0.00764	PASS
					VL	-22.66	-0.00856	PASS
			HCH	TN	VN	-29.04	-0.01097	PASS
					VH	-29.18	-0.01102	PASS
					VL	-16.84	-0.00659	PASS
					VN	-25.84	-0.01011	PASS
					VH	-16.55	-0.00648	PASS
		20	LCH	TN	VL	-23.15	-0.0089	PASS
					VN	-20.94	-0.00805	PASS
					VH	-21.59	-0.0083	PASS
			MCH	TN	VL	-30.64	-0.01158	PASS
					VN	-25.38	-0.0096	PASS
					VH	-26.91	-0.01017	PASS
			HCH	TN	VL	-30.64	-0.01158	PASS
					VN	-25.38	-0.0096	PASS
					VH	-26.91	-0.01017	PASS
					VL	-30.64	-0.01158	PASS
					VN	-25.38	-0.0096	PASS
					VH	-26.91	-0.01017	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
BAND41	LTE/TM1	5	LCH	VN	-30	-15.82	-0.00621	PASS
					-20	-25.61	-0.01005	PASS
					-10	-10.83	-0.00425	PASS
					0	-28.12	-0.01104	PASS
					10	-14.85	-0.00583	PASS
					20	-27.57	-0.01082	PASS
					30	-25.12	-0.00986	PASS
					40	-21.29	-0.00836	PASS
					50	-22.73	-0.00892	PASS
			MCH	VN	-30	-20.79	-0.008	PASS
					-20	-26.06	-0.01002	PASS
					-10	-26.64	-0.01025	PASS
					0	-18.54	-0.00713	PASS
					10	-21.50	-0.00827	PASS
					20	-15.49	-0.00596	PASS
					30	-9.71	-0.00373	PASS
					40	-19.30	-0.00742	PASS
					50	-30.58	-0.01176	PASS
			HCH	VN	-30	-31.63	-0.01192	PASS
					-20	-24.39	-0.0092	PASS
					-10	-22.06	-0.00832	PASS
					0	-30.23	-0.0114	PASS
					10	-28.35	-0.01069	PASS
					20	-27.68	-0.01044	PASS
					30	-22.00	-0.00829	PASS
					40	-18.68	-0.00704	PASS
					50	-23.76	-0.00896	PASS
		10	LCH	VN	-30	-17.91	-0.00702	PASS
					-20	-24.33	-0.00954	PASS
					-10	-23.70	-0.00929	PASS
					0	-16.65	-0.00653	PASS
					10	-21.49	-0.00843	PASS
					20	-16.51	-0.00647	PASS
					30	-18.20	-0.00714	PASS
					40	-21.90	-0.00859	PASS
					50	-14.31	-0.00561	PASS
			MCH	VN	-30	-14.06	-0.00541	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-18.90	-0.00727	PASS
					-10	-23.42	-0.00901	PASS
					0	-15.89	-0.00611	PASS
					10	-18.80	-0.00723	PASS
					20	-20.89	-0.00803	PASS
					30	-23.92	-0.0092	PASS
					40	-28.42	-0.01093	PASS
					50	-21.37	-0.00822	PASS
			HCH	VN	-30	-28.50	-0.01075	PASS
					-20	-24.92	-0.0094	PASS
					-10	-28.10	-0.0106	PASS
					0	-20.00	-0.00755	PASS
					10	-30.00	-0.01132	PASS
					20	-28.78	-0.01086	PASS
					30	-24.53	-0.00926	PASS
					40	-32.34	-0.0122	PASS
					50	-29.18	-0.01101	PASS
		15	LCH	VN	-30	-17.71	-0.00694	PASS
					-20	-24.69	-0.00967	PASS
					-10	-18.15	-0.00711	PASS
					0	-23.96	-0.00939	PASS
					10	-22.56	-0.00884	PASS
					20	-20.53	-0.00804	PASS
					30	-19.53	-0.00765	PASS
					40	-21.10	-0.00827	PASS
					50	-20.24	-0.00793	PASS
			MCH	VN	-30	-30.48	-0.01172	PASS
					-20	-19.58	-0.00753	PASS
					-10	-18.22	-0.00701	PASS
					0	-19.08	-0.00734	PASS
					10	-26.08	-0.01003	PASS
					20	-24.08	-0.00926	PASS
					30	-23.75	-0.00913	PASS
					40	-21.72	-0.00835	PASS
					50	-23.88	-0.00918	PASS
			HCH	VN	-30	-30.38	-0.01147	PASS
					-20	-21.89	-0.00827	PASS
					-10	-25.29	-0.00955	PASS
					0	-21.92	-0.00828	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-29.28	-0.01106	PASS
					20	-21.40	-0.00808	PASS
					30	-22.57	-0.00853	PASS
					40	-27.24	-0.01029	PASS
					50	-22.83	-0.00862	PASS
		20	LCH	VN	-30	-21.83	-0.00854	PASS
					-20	-23.40	-0.00916	PASS
					-10	-25.21	-0.00987	PASS
					0	-14.53	-0.00569	PASS
					10	-22.80	-0.00892	PASS
					20	-19.30	-0.00755	PASS
					30	-25.89	-0.01013	PASS
					40	-26.44	-0.01035	PASS
					50	-18.95	-0.00742	PASS
			MCH	VN	-30	-29.81	-0.01147	PASS
					-20	-18.58	-0.00715	PASS
					-10	-24.63	-0.00947	PASS
					0	-21.77	-0.00837	PASS
					10	-24.93	-0.00959	PASS
					20	-25.38	-0.00976	PASS
					30	-23.06	-0.00887	PASS
					40	-24.38	-0.00938	PASS
					50	-26.79	-0.0103	PASS
			HCH	VN	-30	-23.72	-0.00897	PASS
					-20	-25.28	-0.00956	PASS
					-10	-27.61	-0.01044	PASS
					0	-26.98	-0.0102	PASS
					10	-20.73	-0.00784	PASS
					20	-28.08	-0.01062	PASS
					30	-19.87	-0.00751	PASS
					40	-25.82	-0.00976	PASS
					50	-24.68	-0.00933	PASS
	LTE/TM2	5	LCH	VN	-30	-18.34	-0.0072	PASS
					-20	-28.41	-0.01115	PASS
					-10	-16.19	-0.00636	PASS
					0	-19.28	-0.00757	PASS
					10	-20.13	-0.0079	PASS
					20	-7.51	-0.00295	PASS
					30	-8.85	-0.00347	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-18.02	-0.00707	PASS
					50	-24.91	-0.00978	PASS
			MCH	VN	-30	-20.46	-0.00787	PASS
					-20	-19.68	-0.00757	PASS
					-10	-25.48	-0.0098	PASS
					0	-22.93	-0.00882	PASS
					10	-17.61	-0.00677	PASS
					20	-19.54	-0.00752	PASS
					30	-21.36	-0.00822	PASS
					40	-22.83	-0.00878	PASS
					50	-23.78	-0.00915	PASS
			HCH	VN	-30	-23.10	-0.00871	PASS
					-20	-30.28	-0.01142	PASS
					-10	-19.76	-0.00745	PASS
					0	-29.37	-0.01107	PASS
					10	-24.45	-0.00922	PASS
					20	-12.42	-0.00468	PASS
					30	-17.65	-0.00665	PASS
					40	-29.08	-0.01096	PASS
					50	-16.87	-0.00636	PASS
		10	LCH	VN	-30	-24.29	-0.00953	PASS
					-20	-13.52	-0.0053	PASS
					-10	-26.52	-0.0104	PASS
					0	-25.38	-0.00995	PASS
					10	-13.45	-0.00527	PASS
					20	-10.11	-0.00396	PASS
					30	-12.57	-0.00493	PASS
					40	-14.95	-0.00586	PASS
					50	-19.01	-0.00745	PASS
			MCH	VN	-30	-28.24	-0.01086	PASS
					-20	-21.86	-0.00841	PASS
					-10	-22.16	-0.00852	PASS
					0	-16.94	-0.00652	PASS
					10	-17.42	-0.0067	PASS
					20	-19.76	-0.0076	PASS
					30	-23.05	-0.00887	PASS
					40	-19.87	-0.00764	PASS
					50	-25.65	-0.00987	PASS
			HCH	VN	-30	-25.26	-0.00953	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-16.35	-0.00617	PASS
					-10	-31.20	-0.01177	PASS
					0	-21.64	-0.00817	PASS
					10	-29.64	-0.01118	PASS
					20	-19.48	-0.00735	PASS
					30	-31.09	-0.01173	PASS
					40	-30.36	-0.01146	PASS
					50	-19.87	-0.0075	PASS
		15	LCH	VN	-30	-19.67	-0.00771	PASS
					-20	-18.20	-0.00713	PASS
					-10	-19.96	-0.00782	PASS
					0	-20.94	-0.0082	PASS
					10	-18.31	-0.00717	PASS
					20	-25.32	-0.00992	PASS
					30	-21.14	-0.00828	PASS
					40	-18.48	-0.00724	PASS
					50	-14.72	-0.00577	PASS
			MCH	VN	-30	-21.36	-0.00822	PASS
					-20	-17.57	-0.00676	PASS
					-10	-17.21	-0.00662	PASS
					0	-17.72	-0.00682	PASS
					10	-19.94	-0.00767	PASS
					20	-23.56	-0.00906	PASS
					30	-21.59	-0.0083	PASS
					40	-24.30	-0.00935	PASS
					50	-29.11	-0.0112	PASS
			HCH	VN	-30	-28.85	-0.0109	PASS
					-20	-15.88	-0.006	PASS
					-10	-19.30	-0.00729	PASS
					0	-25.59	-0.00967	PASS
					10	-25.61	-0.00967	PASS
					20	-18.88	-0.00713	PASS
					30	-21.47	-0.00811	PASS
					40	-26.19	-0.00989	PASS
					50	-27.92	-0.01055	PASS
		20	LCH	VN	-30	-18.81	-0.00736	PASS
					-20	-19.44	-0.00761	PASS
					-10	-22.44	-0.00878	PASS
					0	-14.22	-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	-15.91	-0.00623	PASS
					20	-20.14	-0.00788	PASS
					30	-20.37	-0.00797	PASS
					40	-19.51	-0.00764	PASS
					50	-21.40	-0.00838	PASS
			MCH	VN	-30	-25.12	-0.00966	PASS
					-20	-26.79	-0.0103	PASS
					-10	-24.12	-0.00928	PASS
					0	-22.13	-0.00851	PASS
					10	-28.67	-0.01103	PASS
					20	-26.79	-0.0103	PASS
					30	-26.62	-0.01024	PASS
					40	-17.65	-0.00679	PASS
					50	-22.26	-0.00856	PASS
			HCH	VN	-30	-23.16	-0.00876	PASS
					-20	-30.94	-0.0117	PASS
					-10	-26.16	-0.00989	PASS
					0	-27.55	-0.01042	PASS
					10	-27.48	-0.01039	PASS
					20	-22.30	-0.00843	PASS
					30	-25.18	-0.00952	PASS
					40	-19.71	-0.00745	PASS
					50	-26.09	-0.00986	PASS

END