





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



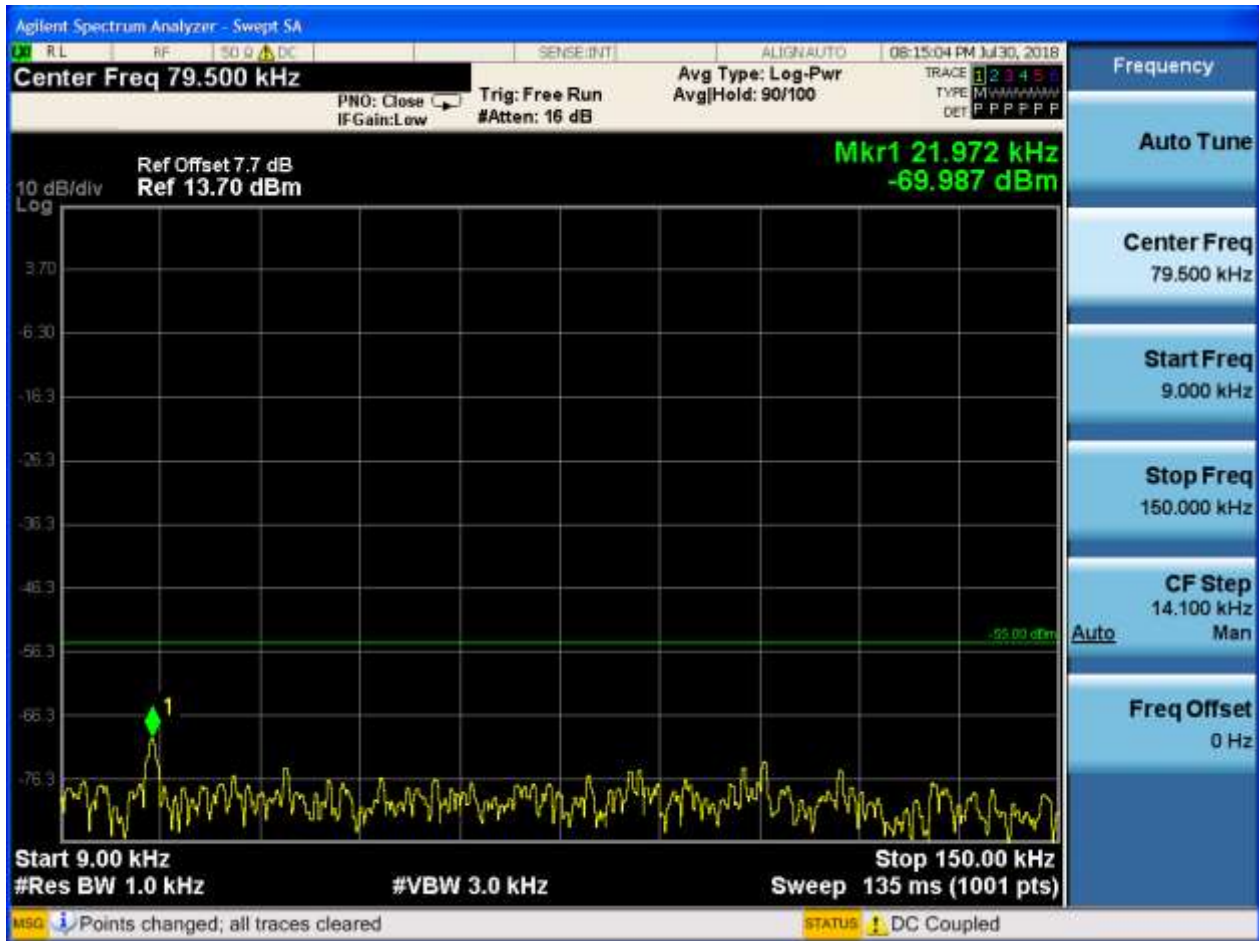






6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





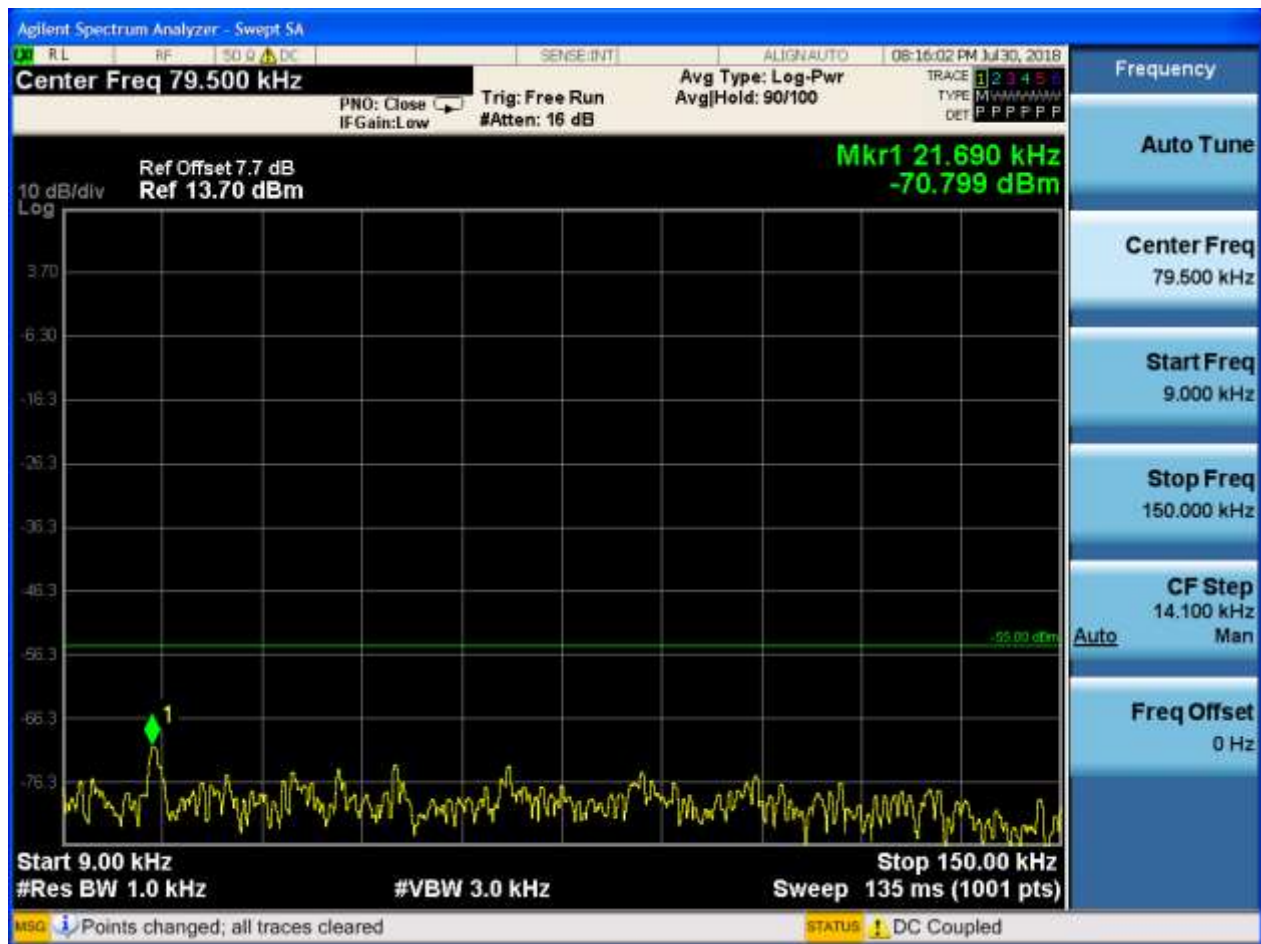




6.1.1.2.3 Test Bandwidth = 15

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

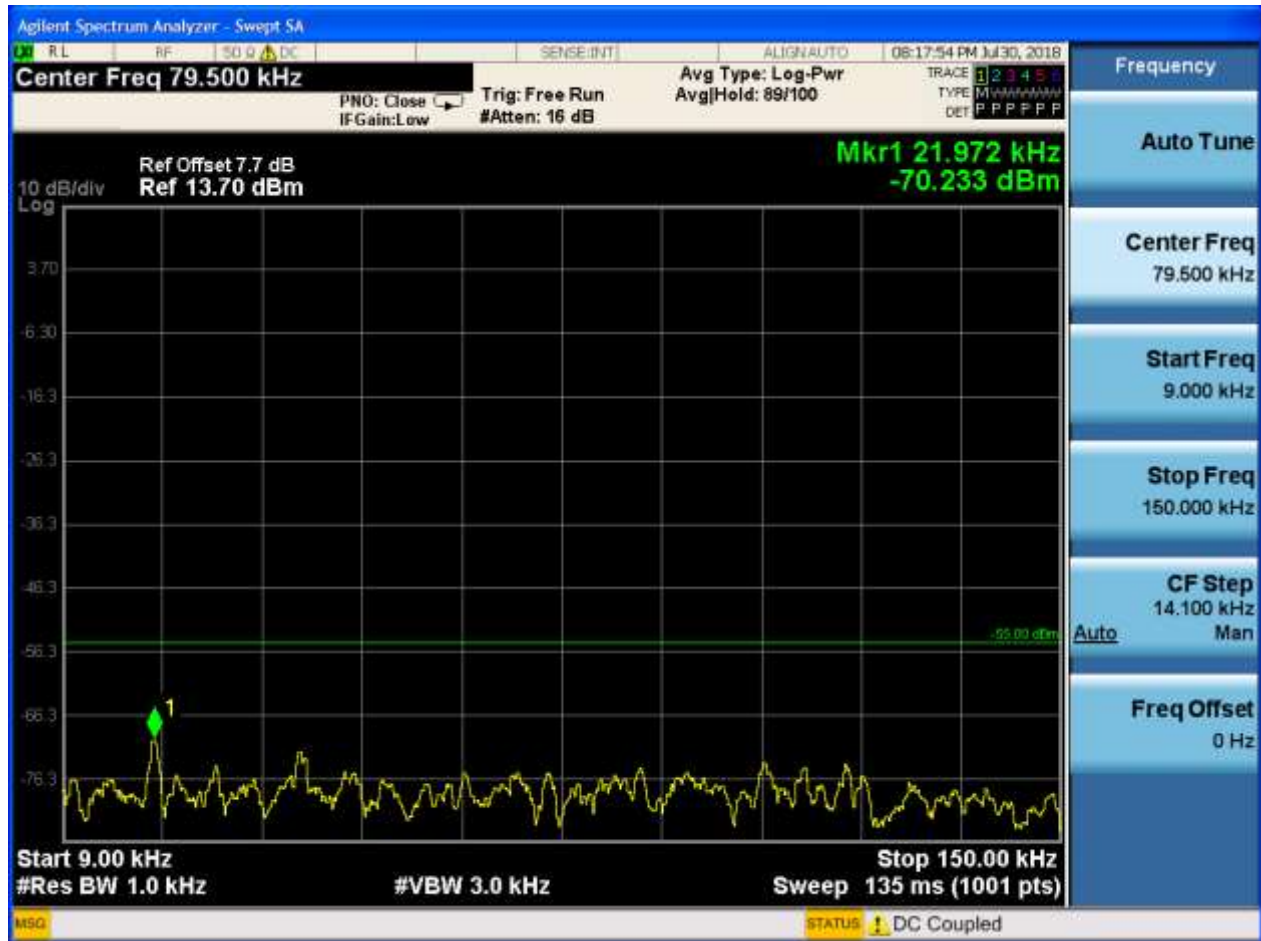






6.1.1.2.3.3 Test Channel = HCH

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



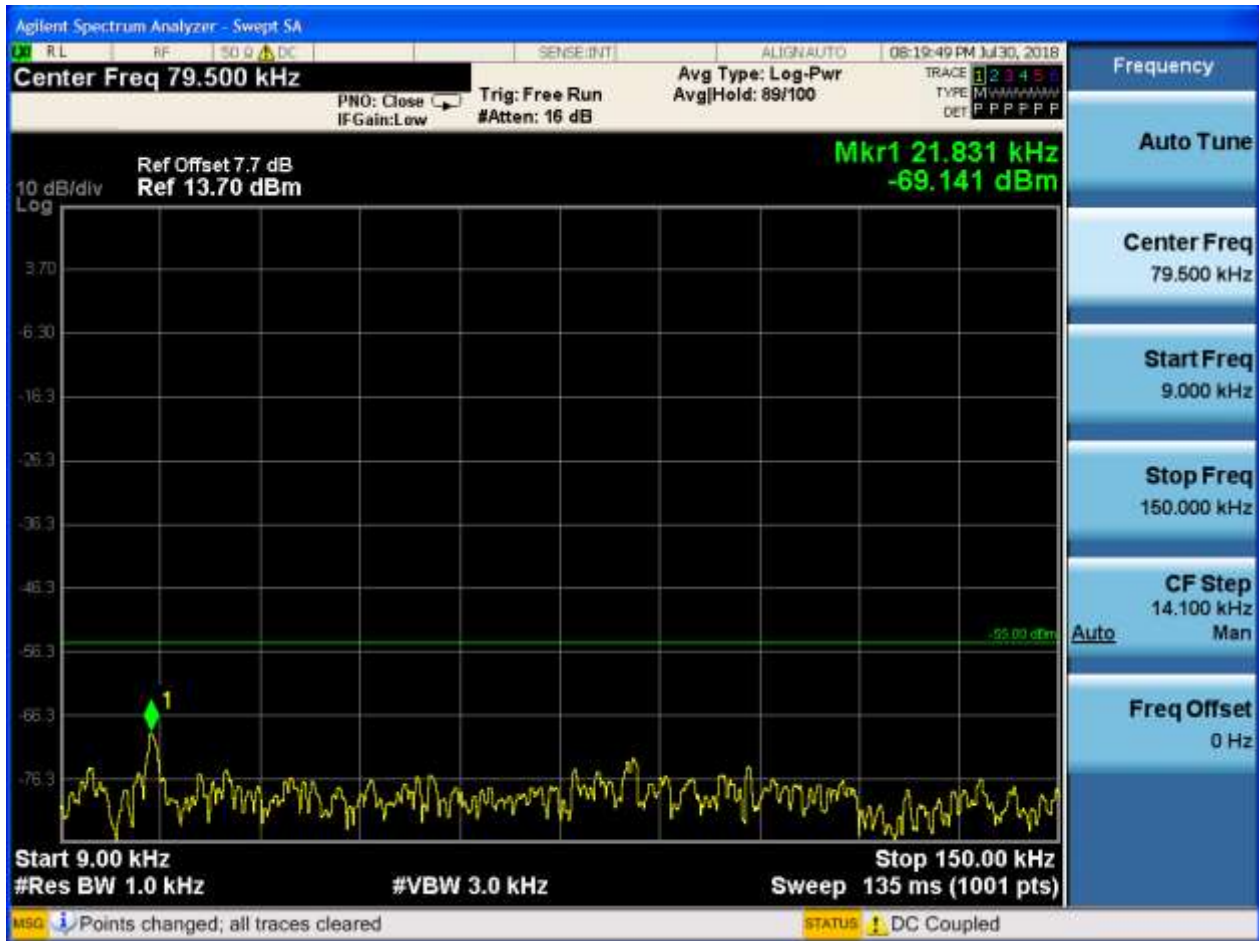






6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



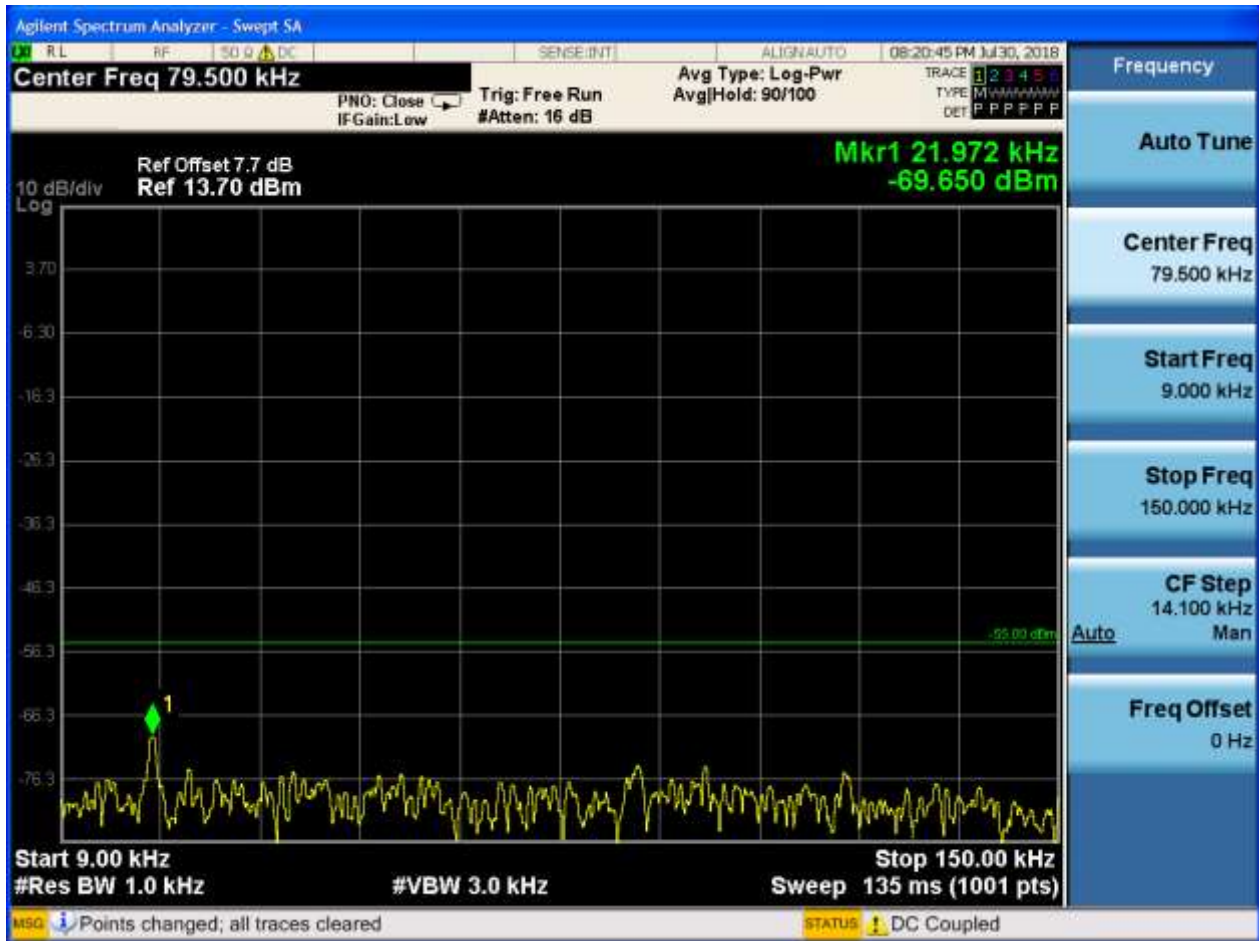






6.1.1.2.4.3 Test Channel = HCH

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

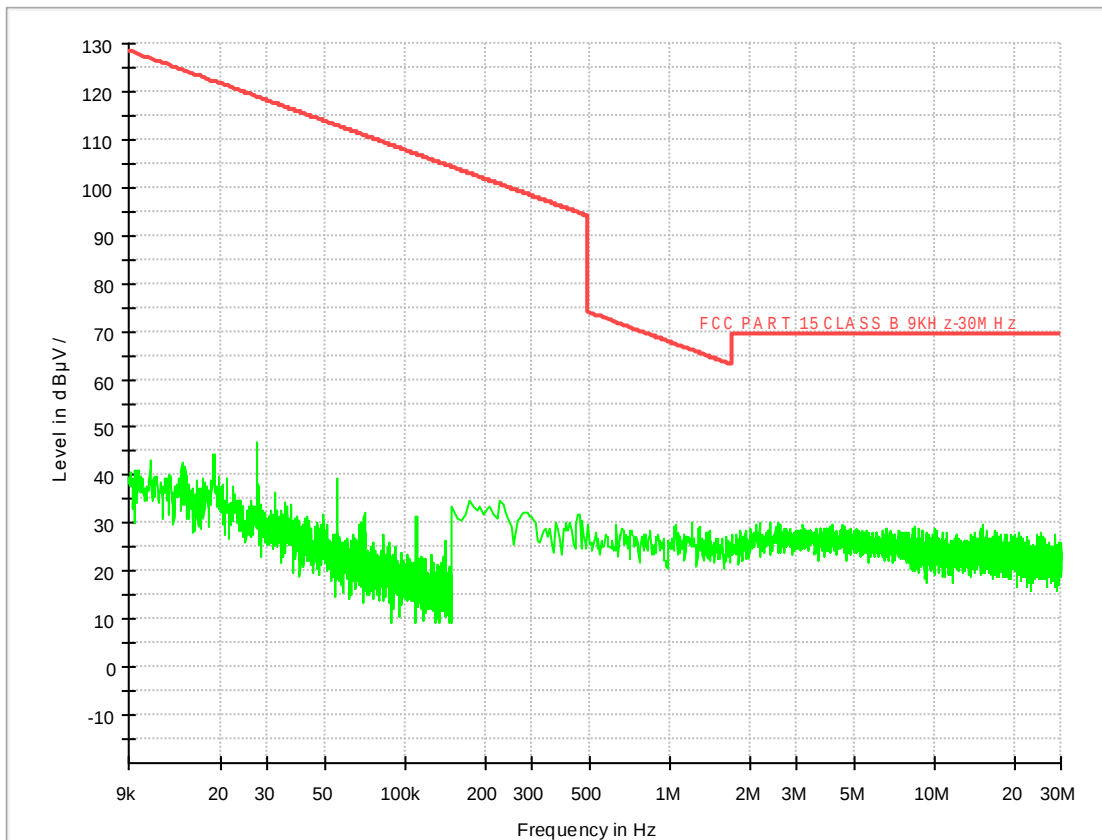
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

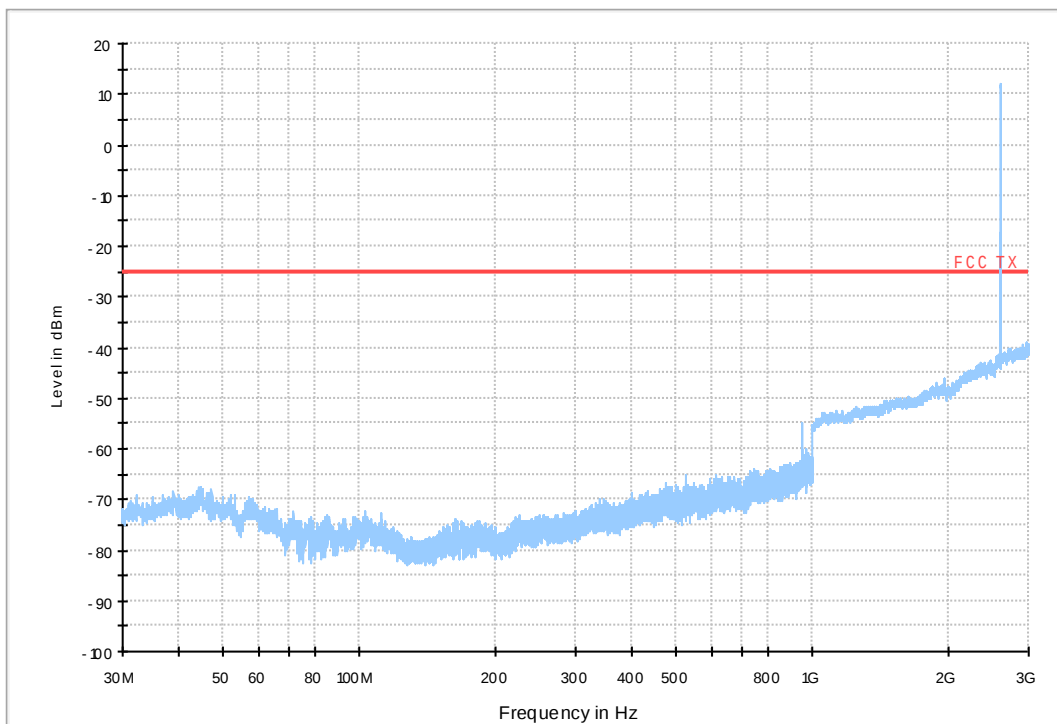
7.1 For LTE

7.1.1 Test Band = BAND38_ANT1

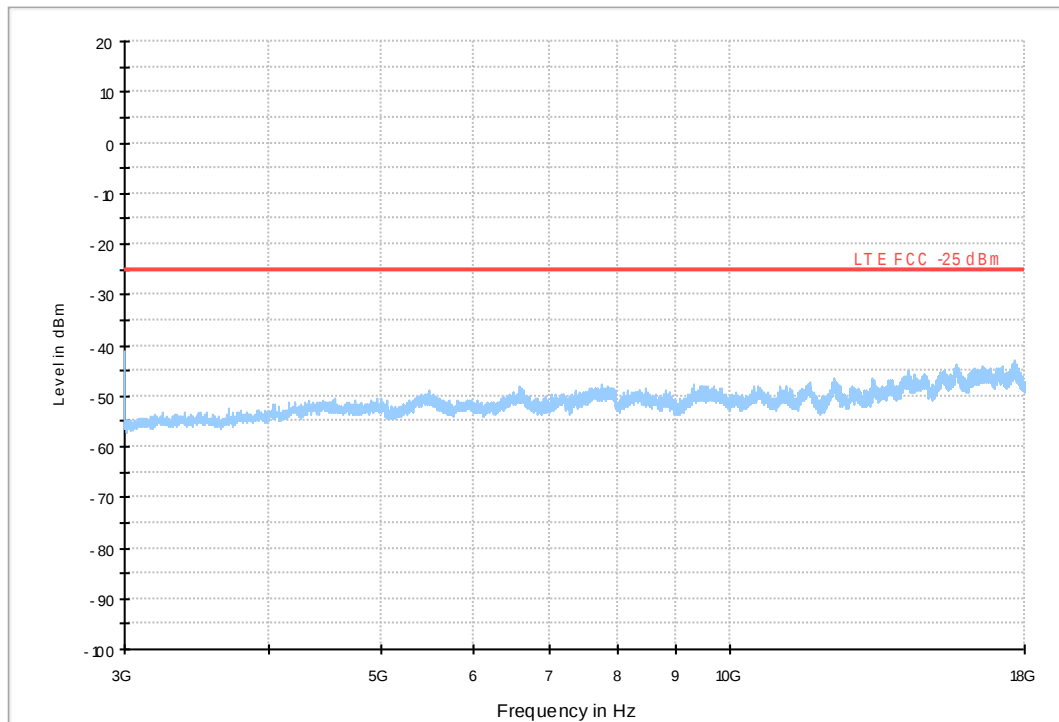
7.1.1.1 Test Bandwidth = 5



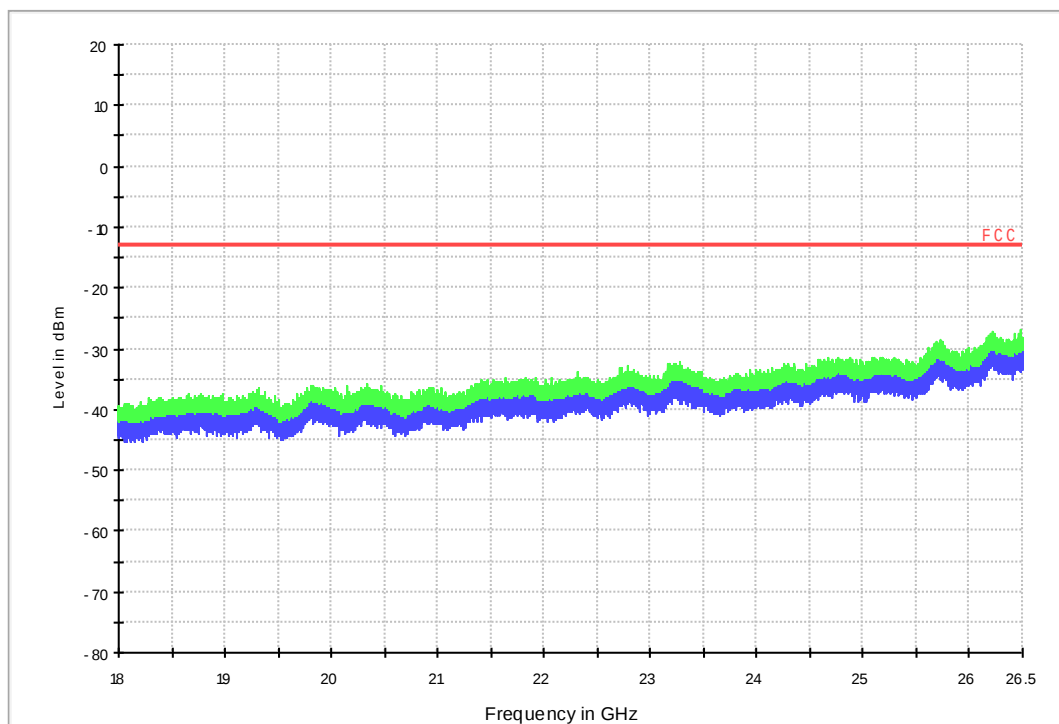
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L-25dBm limit



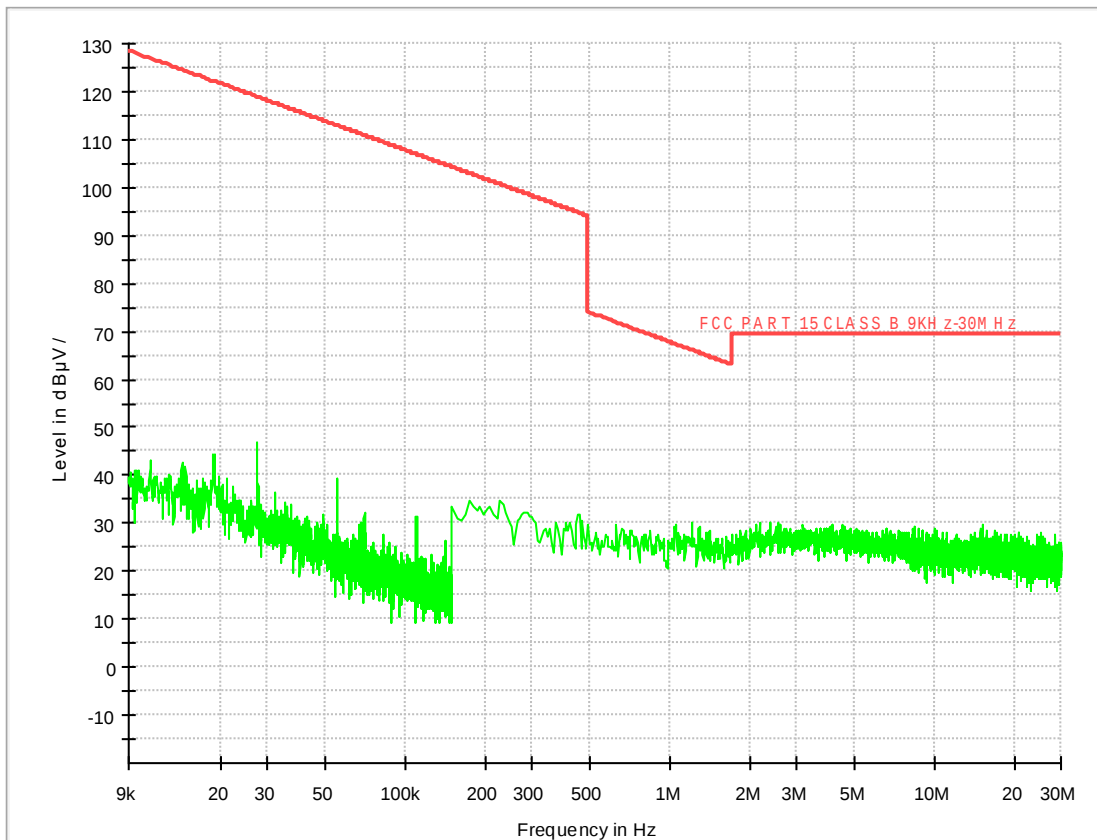
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



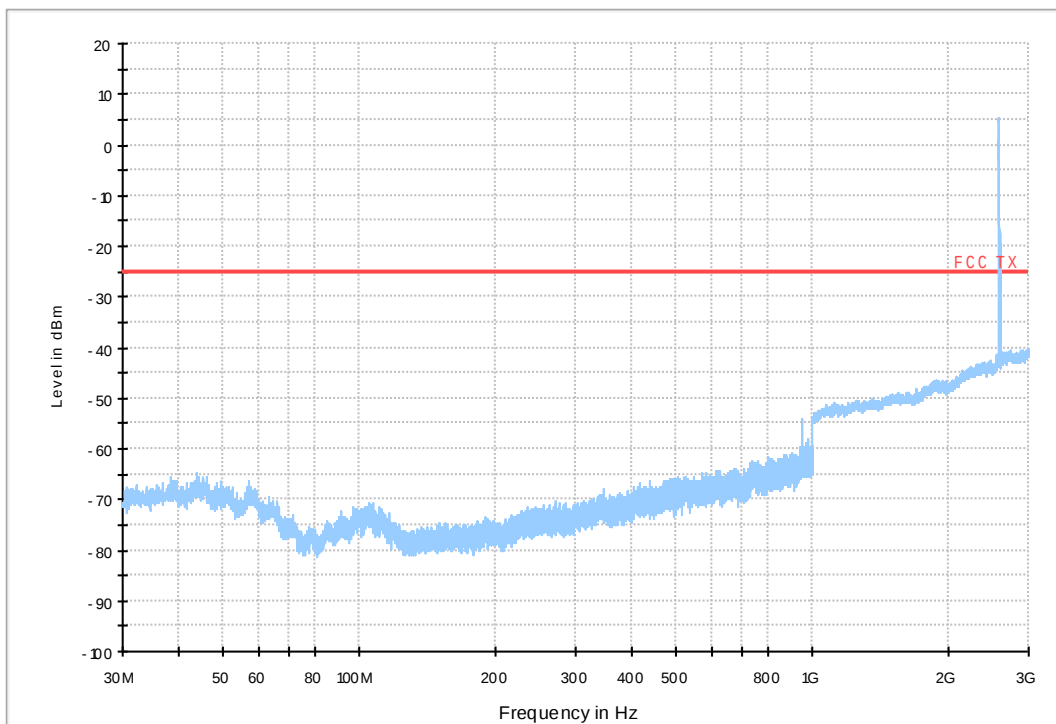
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



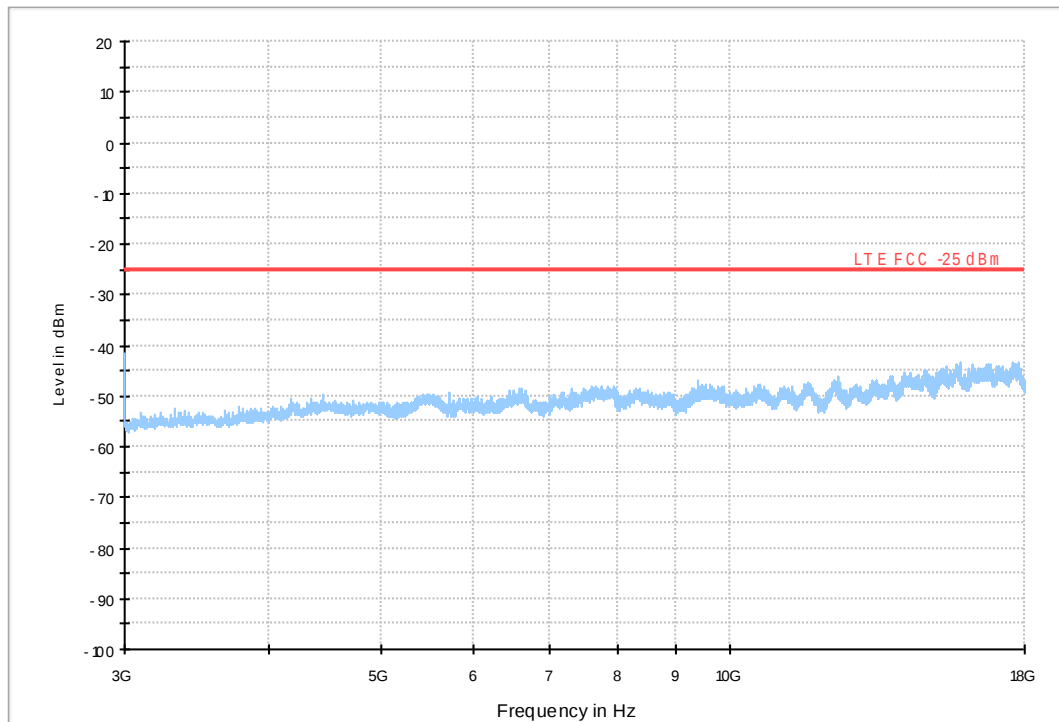
7.1.1.2 Test Bandwidth = 20



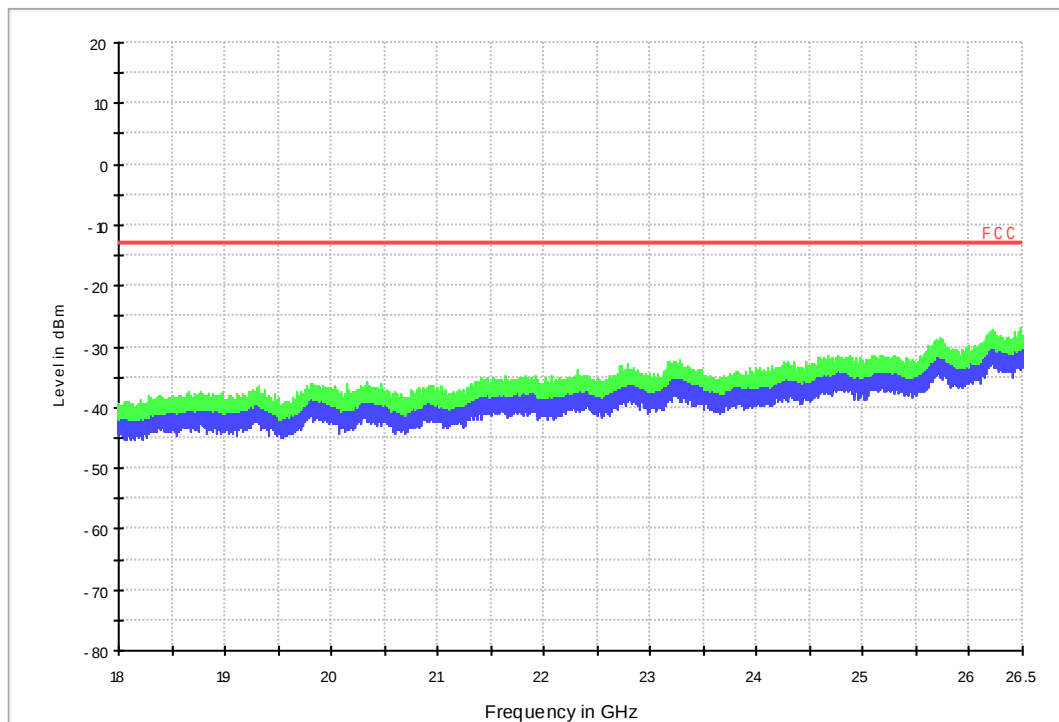
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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

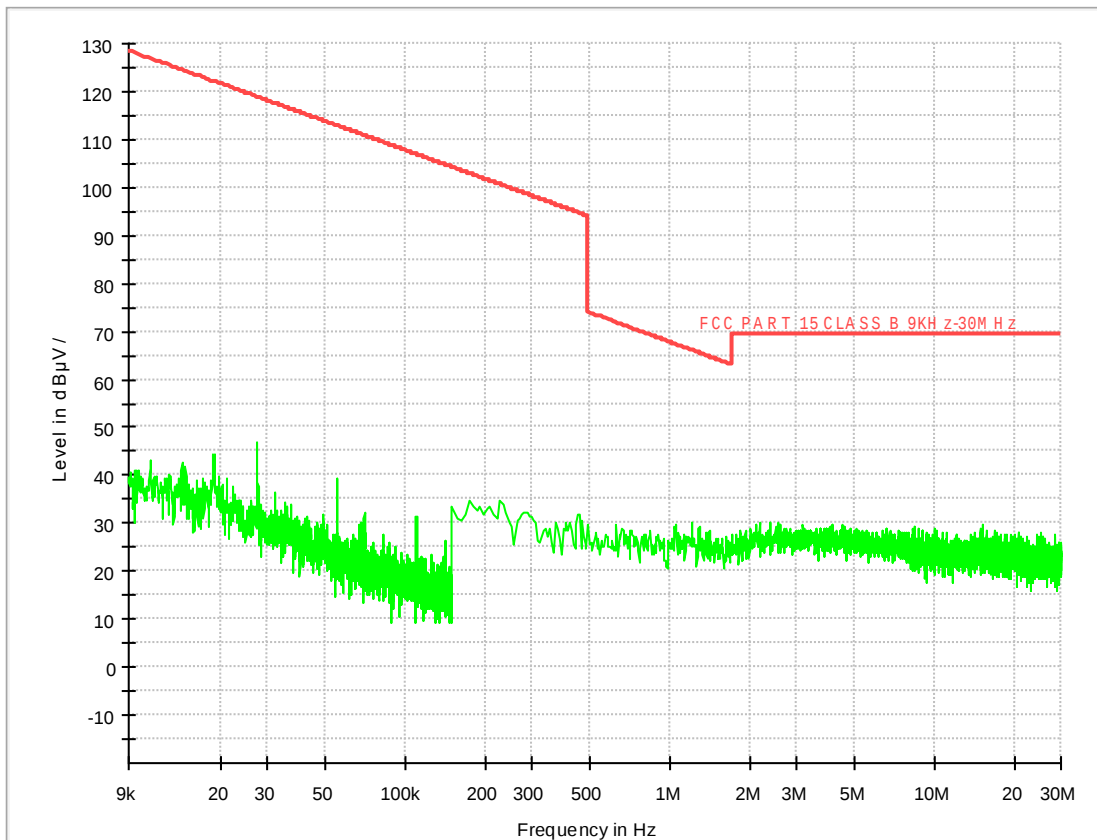


18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

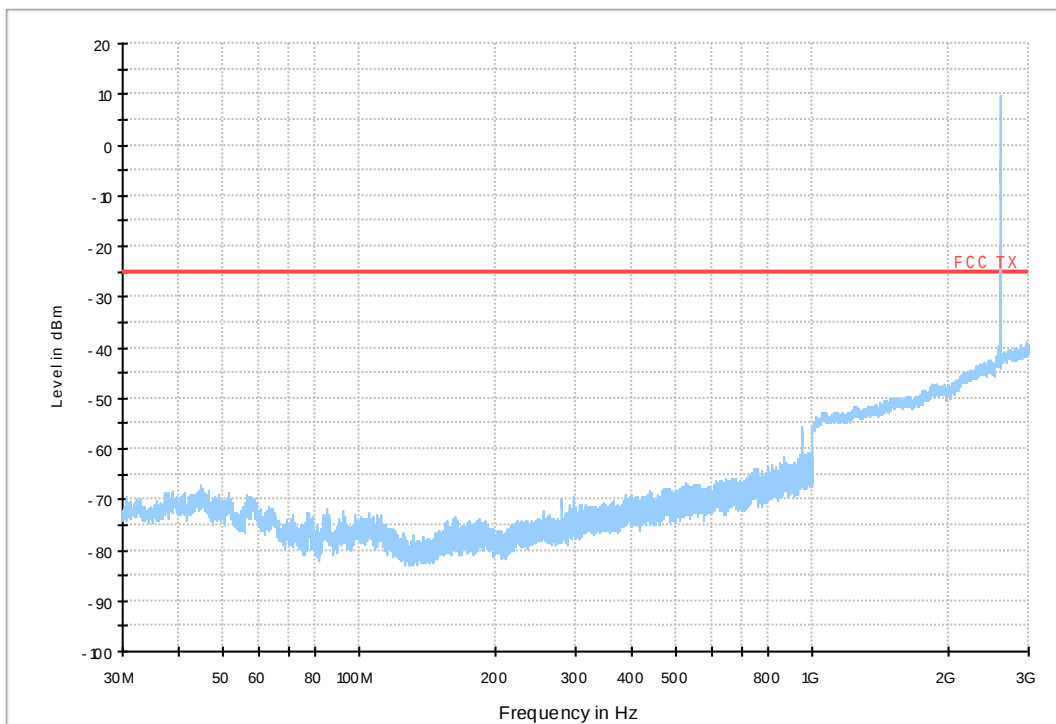


7.1.2 Test Band = BAND38_ANT2

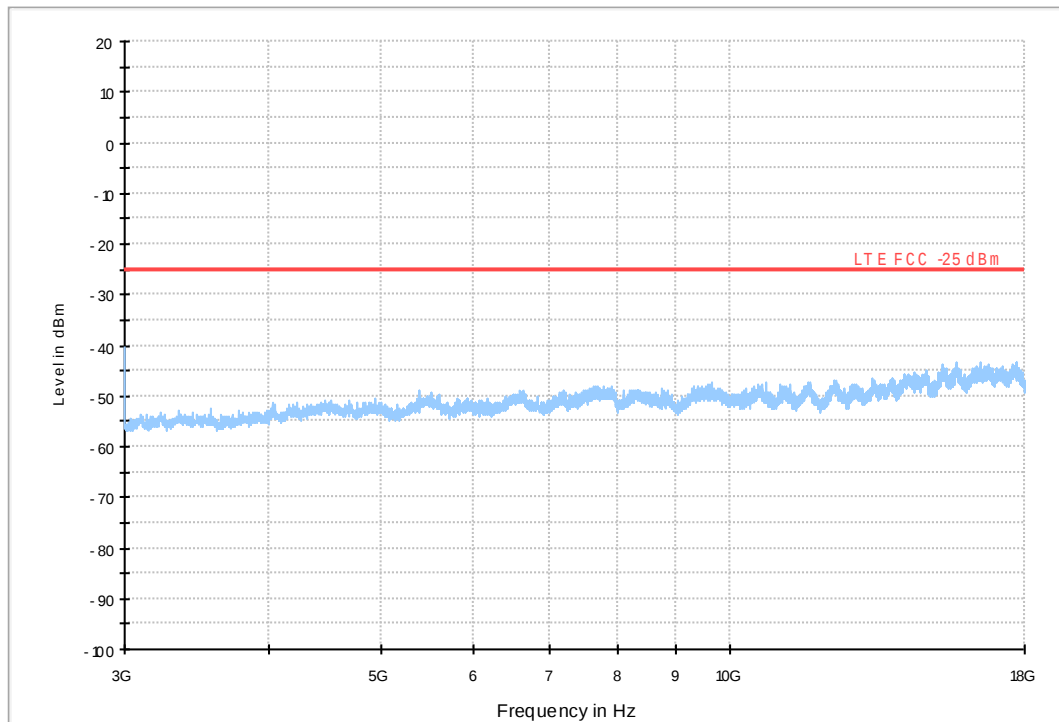
7.1.2.1 Test Bandwidth = 5



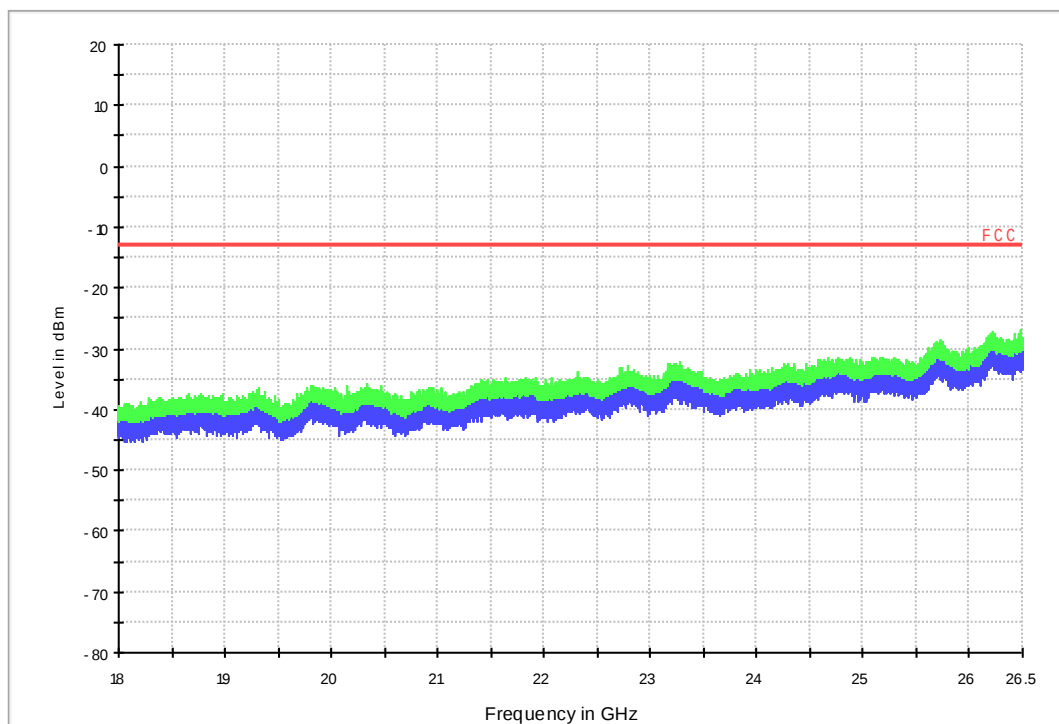
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L-25dBm limit



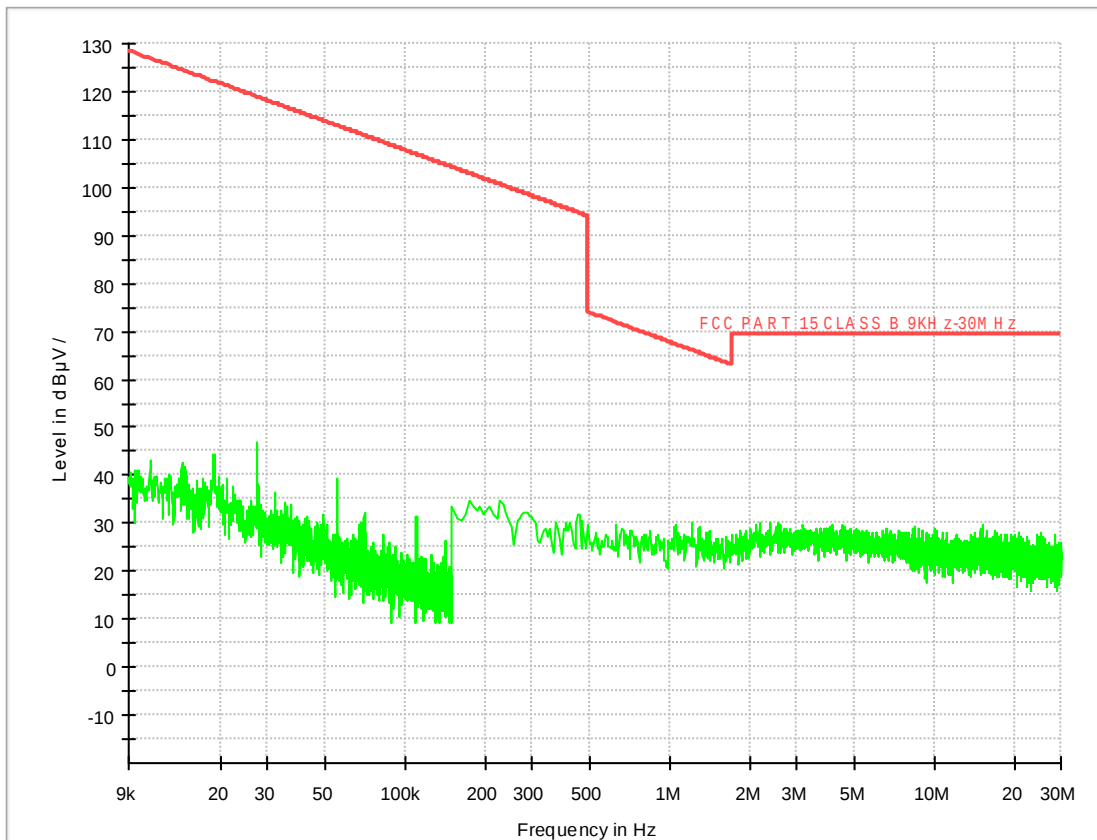
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



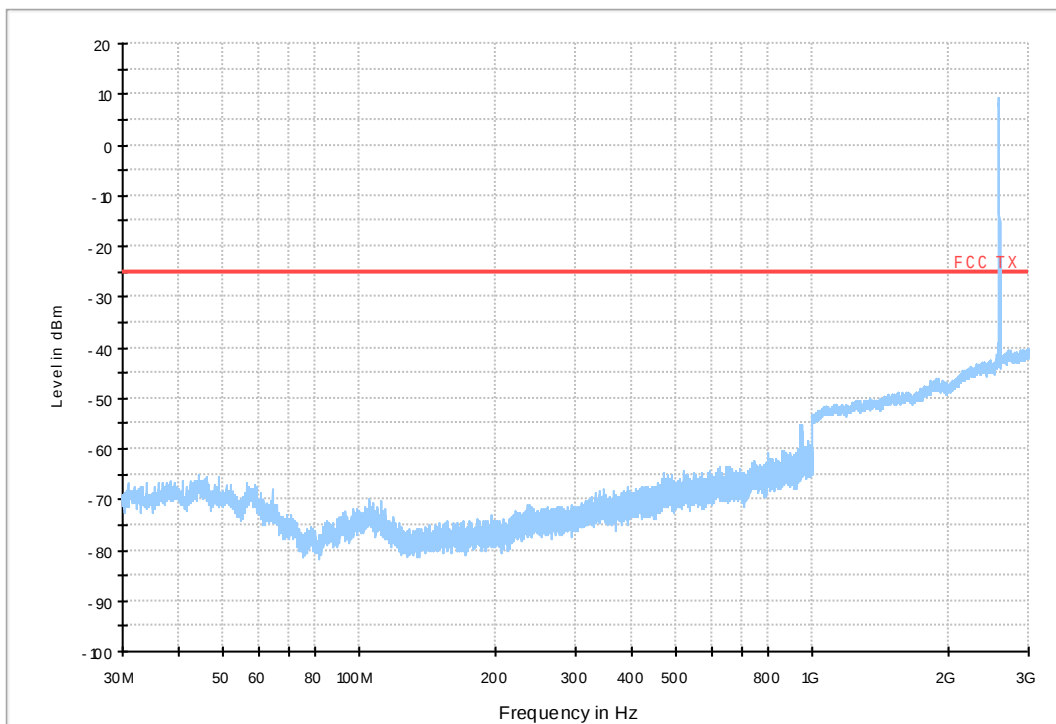
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



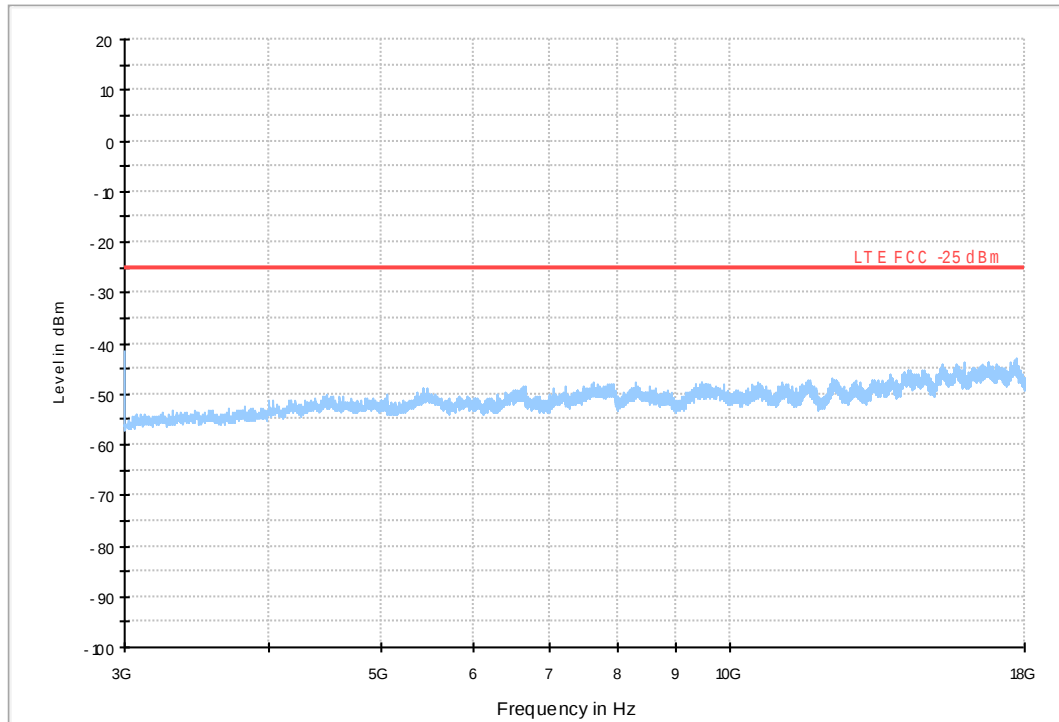
7.1.2.2 Test Bandwidth = 20



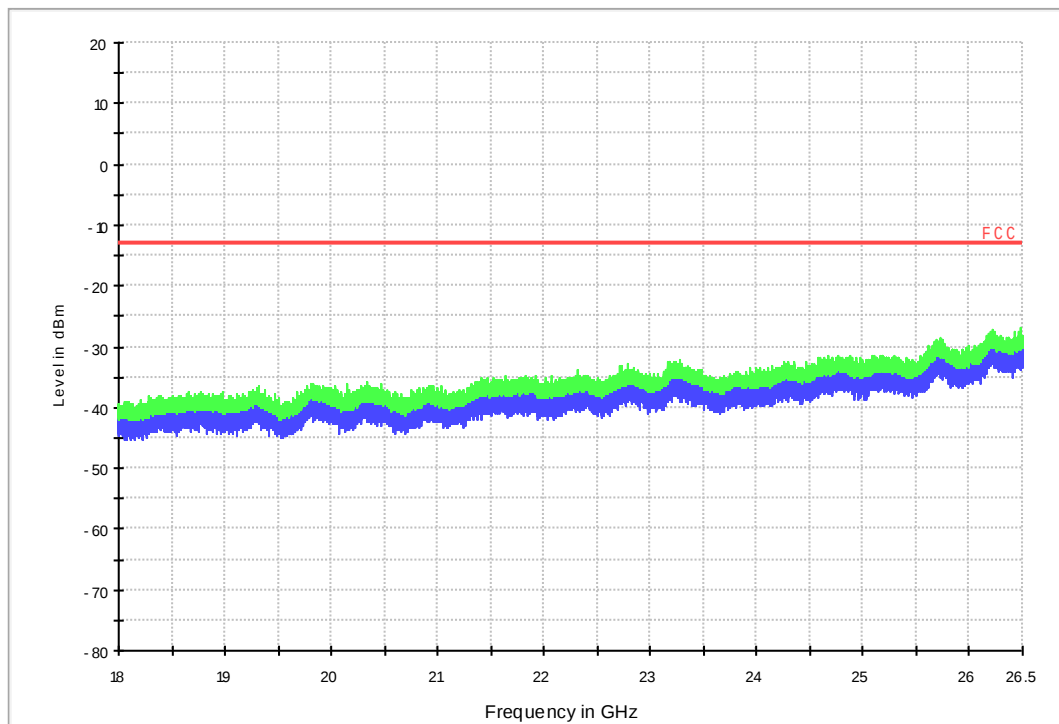
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND38	LTE/TM1	5	LCH	TN	VL	-29.27	-0.01138	PASS
					VN	-25.16	-0.00978	PASS
					VH	-30.10	-0.0117	PASS
			MCH	TN	VL	-35.15	-0.01355	PASS
					VN	-34.35	-0.01324	PASS
					VH	-27.41	-0.01056	PASS
			HCH	TN	VL	-31.61	-0.01208	PASS
					VN	-25.94	-0.00991	PASS
					VH	-27.31	-0.01043	PASS
		10	LCH	TN	VL	-31.59	-0.01227	PASS
					VN	-28.71	-0.01115	PASS
					VH	-30.80	-0.01196	PASS
			MCH	TN	VL	-28.04	-0.01081	PASS
					VN	-31.33	-0.01207	PASS
					VH	-27.92	-0.01076	PASS
			HCH	TN	VL	-23.80	-0.0091	PASS
					VN	-26.11	-0.00998	PASS
					VH	-25.21	-0.00964	PASS
		15	LCH	TN	VL	-30.20	-0.01172	PASS
					VN	-31.70	-0.0123	PASS
					VH	-27.39	-0.01063	PASS
			MCH	TN	VL	-28.34	-0.01092	PASS
					VN	-26.79	-0.01032	PASS
					VH	-27.19	-0.01048	PASS
			HCH	TN	VL	-27.39	-0.01048	PASS
					VN	-26.78	-0.01025	PASS
					VH	-28.42	-0.01088	PASS
		20	LCH	TN	VL	-29.87	-0.01158	PASS
					VN	-30.04	-0.01164	PASS
					VH	-25.82	-0.01001	PASS
			MCH	TN	VL	-30.24	-0.01165	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VN	-30.66	-0.01182	PASS
					VH	-30.51	-0.01176	PASS
					VL	-28.65	-0.01098	PASS
					VN	-27.31	-0.01046	PASS
					VH	-29.78	-0.01141	PASS
	LTE/TM2	5	LCH	TN	VL	-31.39	-0.0122	PASS
					VN	-30.67	-0.01192	PASS
					VH	-31.34	-0.01218	PASS
			MCH	TN	VL	-34.23	-0.01319	PASS
					VN	-29.65	-0.01143	PASS
					VH	-29.57	-0.01139	PASS
			HCH	TN	VL	-32.92	-0.01258	PASS
					VN	-32.46	-0.0124	PASS
					VH	-33.14	-0.01266	PASS
		10	LCH	TN	VL	-27.62	-0.01073	PASS
					VN	-34.56	-0.01342	PASS
					VH	-29.24	-0.01136	PASS
			MCH	TN	VL	-29.31	-0.01129	PASS
					VN	-27.22	-0.01049	PASS
					VH	-29.38	-0.01132	PASS
			HCH	TN	VL	-29.01	-0.01109	PASS
					VN	-26.71	-0.01021	PASS
					VH	-23.89	-0.00914	PASS
		15	LCH	TN	VL	-29.37	-0.01139	PASS
					VN	-27.91	-0.01083	PASS
					VH	-31.49	-0.01222	PASS
			MCH	TN	VL	-30.57	-0.01178	PASS
					VN	-30.46	-0.01174	PASS
					VH	-29.54	-0.01138	PASS
			HCH	TN	VL	-24.19	-0.00926	PASS
					VN	-30.11	-0.01153	PASS
					VH	-26.99	-0.01033	PASS
		20	LCH	TN	VL	-29.20	-0.01132	PASS
					VN	-28.65	-0.0111	PASS
					VH	-30.26	-0.01173	PASS
			MCH	TN	VL	-30.78	-0.01186	PASS
					VN	-31.93	-0.0123	PASS
					VH	-29.41	-0.01133	PASS
			HCH	TN	VL	-26.38	-0.01011	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-26.19	-0.01003	PASS
					VH	-26.91	-0.01031	PASS

8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND38	LTE/TM1	5	LCH	VN	-30	-34.78	-0.01138	PASS
					-20	-29.73	-0.00978	PASS
					-10	-31.84	-0.0117	PASS
					0	-28.45	-0.01355	PASS
					10	-30.76	-0.01324	PASS
					20	-28.90	-0.01056	PASS
					30	-32.16	-0.01208	PASS
					40	-26.92	-0.00991	PASS
					50	-31.53	-0.01043	PASS
			MCH	VN	-30	-30.21	-0.01227	PASS
					-20	-31.37	-0.01115	PASS
					-10	-31.34	-0.01196	PASS
					0	-28.47	-0.01081	PASS
					10	-24.89	-0.01207	PASS
					20	-30.81	-0.01076	PASS
					30	-30.81	-0.0091	PASS
					40	-31.49	-0.00998	PASS
					50	-30.97	-0.00964	PASS
			HCH	VN	-30	-28.01	-0.01172	PASS
					-20	-33.37	-0.0123	PASS
					-10	-33.69	-0.01063	PASS
					0	-30.83	-0.01092	PASS
					10	-28.71	-0.01032	PASS
					20	-39.12	-0.01048	PASS
					30	-29.51	-0.01048	PASS
					40	-27.68	-0.01025	PASS
					50	-30.81	-0.01088	PASS
		10	LCH	VN	-30	-29.43	-0.01158	PASS
					-20	-31.71	-0.01164	PASS
					-10	-30.16	-0.01001	PASS
					0	-29.61	-0.01165	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-31.44	-0.01182	PASS
					20	-29.94	-0.01176	PASS
					30	-28.10	-0.01098	PASS
					40	-25.11	-0.01046	PASS
					50	-30.94	-0.01141	PASS
			MCH	VN	-30	-30.28	-0.0122	PASS
					-20	-31.69	-0.01192	PASS
					-10	-28.51	-0.01218	PASS
					0	-29.83	-0.01319	PASS
					10	-31.71	-0.01143	PASS
					20	-27.95	-0.01139	PASS
					30	-34.66	-0.01258	PASS
					40	-30.93	-0.0124	PASS
					50	-28.80	-0.01266	PASS
			HCH	VN	-30	-28.97	-0.01073	PASS
					-20	-28.14	-0.01342	PASS
					-10	-25.16	-0.01136	PASS
					0	-23.22	-0.01129	PASS
					10	-25.43	-0.01049	PASS
					20	-24.32	-0.01132	PASS
					30	-22.85	-0.01109	PASS
					40	-29.30	-0.01021	PASS
					50	-26.31	-0.00914	PASS
		15	LCH	VN	-30	-32.42	-0.01139	PASS
					-20	-28.71	-0.01083	PASS
					-10	-34.13	-0.01222	PASS
					0	-29.40	-0.01178	PASS
					10	-31.86	-0.01174	PASS
					20	-31.63	-0.01138	PASS
					30	-32.00	-0.00926	PASS
					40	-31.21	-0.01153	PASS
					50	-31.60	-0.01033	PASS
			MCH	VN	-30	-29.65	-0.01132	PASS
					-20	-31.93	-0.0111	PASS
					-10	-30.97	-0.01173	PASS
					0	-30.90	-0.01186	PASS
					10	-33.12	-0.0123	PASS
					20	-30.98	-0.01133	PASS
					30	-30.86	-0.01011	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-29.81	-0.01003	PASS
					50	-31.36	-0.01031	PASS
			HCH	VN	-30	-26.35	-0.01138	PASS
					-20	-29.77	-0.00978	PASS
					-10	-27.09	-0.0117	PASS
					0	-28.05	-0.01355	PASS
					10	-22.73	-0.01324	PASS
					20	-30.08	-0.01056	PASS
					30	-26.34	-0.01208	PASS
					40	-23.67	-0.00991	PASS
					50	-28.01	-0.01043	PASS
		20	LCH	VN	-30	-32.84	-0.01227	PASS
					-20	-30.61	-0.01115	PASS
					-10	-29.40	-0.01196	PASS
					0	-28.05	-0.01081	PASS
					10	-31.19	-0.01207	PASS
					20	-29.45	-0.01076	PASS
					30	-28.22	-0.0091	PASS
					40	-28.61	-0.00998	PASS
					50	-32.87	-0.00964	PASS
			MCH	VN	-30	-31.17	-0.01172	PASS
					-20	-30.03	-0.0123	PASS
					-10	-28.72	-0.01063	PASS
					0	-32.47	-0.01092	PASS
					10	-31.26	-0.01032	PASS
					20	-31.97	-0.01048	PASS
					30	-30.88	-0.01048	PASS
					40	-31.24	-0.01025	PASS
					50	-32.92	-0.01088	PASS
			HCH	VN	-30	-27.31	-0.01158	PASS
					-20	-26.55	-0.01164	PASS
					-10	-28.25	-0.01001	PASS
					0	-28.70	-0.01165	PASS
					10	-25.91	-0.01182	PASS
					20	-29.10	-0.01176	PASS
					30	-26.51	-0.01098	PASS
					40	-27.87	-0.01046	PASS
					50	-26.71	-0.01141	PASS
	LTE/TM2	5	LCH	VN	-30	-30.81	-0.0122	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-29.37	-0.01192	PASS
					-10	-25.85	-0.01218	PASS
					0	-29.88	-0.01319	PASS
					10	-28.98	-0.01143	PASS
					20	-28.32	-0.01139	PASS
					30	-29.48	-0.01258	PASS
					40	-32.54	-0.0124	PASS
					50	-27.68	-0.01266	PASS
			MCH	VN	-30	-27.28	-0.01073	PASS
					-20	-31.10	-0.01342	PASS
					-10	-33.46	-0.01136	PASS
					0	-28.84	-0.01129	PASS
					10	-26.04	-0.01049	PASS
					20	-30.68	-0.01132	PASS
					30	-24.09	-0.01109	PASS
					40	-33.06	-0.01021	PASS
					50	-26.95	-0.00914	PASS
			HCH	VN	-30	-30.73	-0.01139	PASS
					-20	-55.55	-0.01083	PASS
					-10	-42.61	-0.01222	PASS
					0	-32.87	-0.01178	PASS
					10	-31.07	-0.01174	PASS
					20	-29.14	-0.01138	PASS
					30	-30.94	-0.00926	PASS
					40	-31.47	-0.01153	PASS
					50	-29.63	-0.01033	PASS
		10	LCH	VN	-30	-30.20	-0.01132	PASS
					-20	-32.94	-0.0111	PASS
					-10	-30.28	-0.01173	PASS
					0	-27.24	-0.01186	PASS
					10	-24.93	-0.0123	PASS
					20	-25.15	-0.01133	PASS
					30	-25.76	-0.01011	PASS
					40	-26.66	-0.01003	PASS
					50	-26.76	-0.01031	PASS
			MCH	VN	-30	-26.52	-0.01138	PASS
					-20	-28.10	-0.00978	PASS
					-10	-31.90	-0.0117	PASS
					0	-30.57	-0.01355	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-25.71	-0.01324	PASS
					20	-27.32	-0.01056	PASS
					30	-27.85	-0.01208	PASS
					40	-31.13	-0.00991	PASS
					50	-32.53	-0.01043	PASS
			HCH	VN	-30	-24.66	-0.01227	PASS
					-20	-20.34	-0.01115	PASS
					-10	-23.06	-0.01196	PASS
					0	-26.08	-0.01081	PASS
					10	-24.95	-0.01207	PASS
					20	-23.46	-0.01076	PASS
					30	-22.89	-0.0091	PASS
					40	-27.44	-0.00998	PASS
					50	-25.12	-0.00964	PASS
		15	LCH	VN	-30	-33.22	-0.01172	PASS
					-20	-29.88	-0.0123	PASS
					-10	-27.04	-0.01063	PASS
					0	-28.14	-0.01092	PASS
					10	-25.79	-0.01032	PASS
					20	-29.44	-0.01048	PASS
					30	-29.20	-0.01048	PASS
					40	-29.48	-0.01025	PASS
					50	-28.47	-0.01088	PASS
			MCH	VN	-30	-28.30	-0.01158	PASS
					-20	-27.39	-0.01164	PASS
					-10	-28.51	-0.01001	PASS
					0	-28.67	-0.01165	PASS
					10	-27.28	-0.01182	PASS
					20	-29.77	-0.01176	PASS
					30	-31.14	-0.01098	PASS
					40	-27.69	-0.01046	PASS
					50	-31.26	-0.01141	PASS
			HCH	VN	-30	-27.08	-0.0122	PASS
					-20	-23.72	-0.01192	PASS
					-10	-26.12	-0.01218	PASS
					0	-23.63	-0.01319	PASS
					10	-25.26	-0.01143	PASS
					20	-24.88	-0.01139	PASS
					30	-26.91	-0.01258	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-27.38	-0.0124	PASS
					50	-24.32	-0.01266	PASS
		20	LCH	VN	-30	-28.90	-0.01073	PASS
					-20	-27.65	-0.01342	PASS
					-10	-28.80	-0.01136	PASS
					0	-31.81	-0.01129	PASS
					10	-32.01	-0.01049	PASS
					20	-30.86	-0.01132	PASS
					30	-26.42	-0.01109	PASS
					40	-30.17	-0.01021	PASS
					50	-28.81	-0.00914	PASS
			MCH	VN	-30	-28.94	-0.01139	PASS
					-20	-29.70	-0.01083	PASS
					-10	-27.59	-0.01222	PASS
					0	-28.35	-0.01178	PASS
					10	-28.40	-0.01174	PASS
					20	-29.60	-0.01138	PASS
					30	-31.50	-0.00926	PASS
					40	-31.50	-0.01153	PASS
			HCH	VN	50	-30.77	-0.01033	PASS
					-30	-24.82	-0.01132	PASS
					-20	-26.01	-0.0111	PASS
					-10	-26.76	-0.01173	PASS
					0	-26.66	-0.01186	PASS
					10	-25.32	-0.0123	PASS
					20	-24.15	-0.01133	PASS
					30	-24.46	-0.01011	PASS
					40	-23.65	-0.01003	PASS
					50	-28.27	-0.01031	PASS

END