





6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



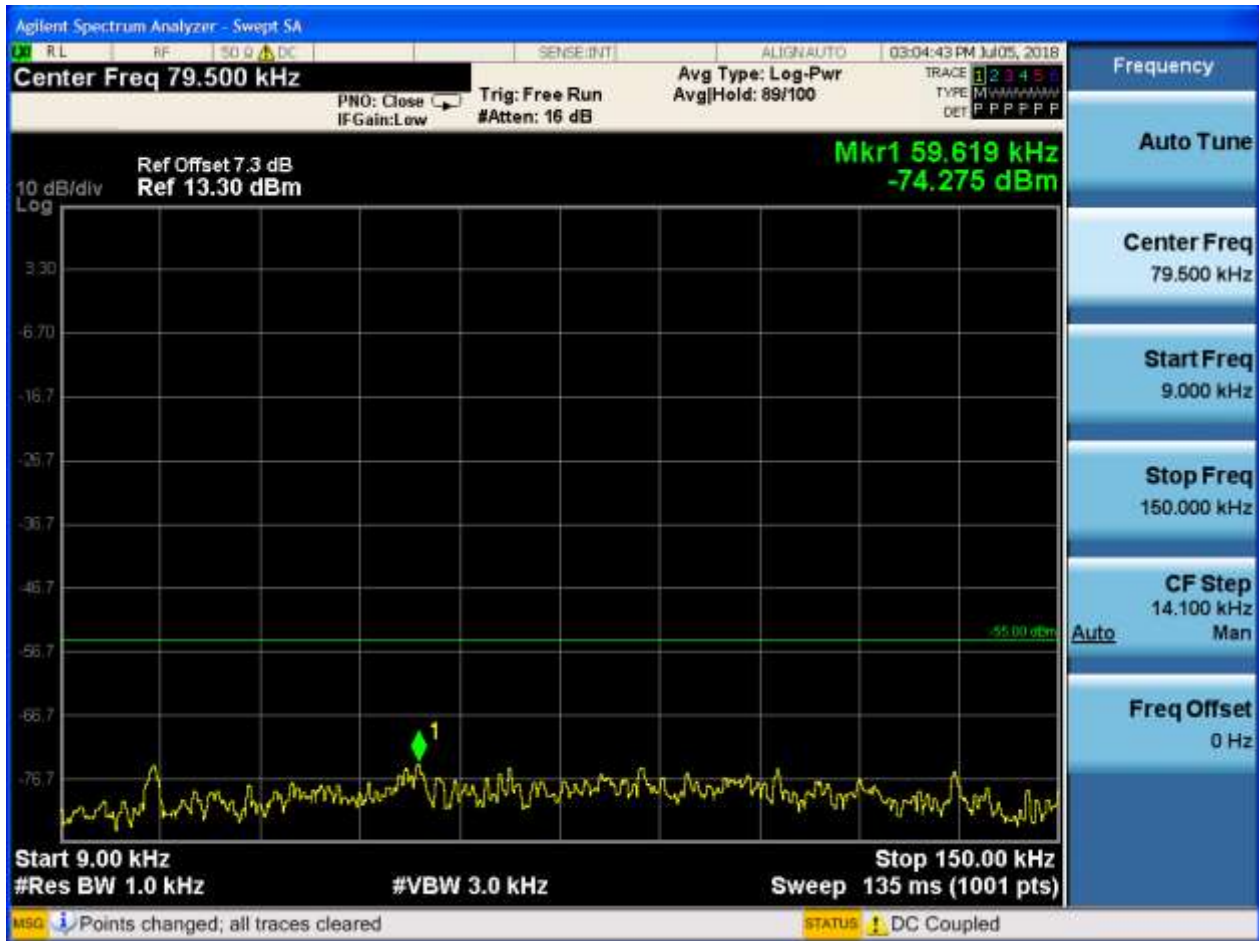






6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0









6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



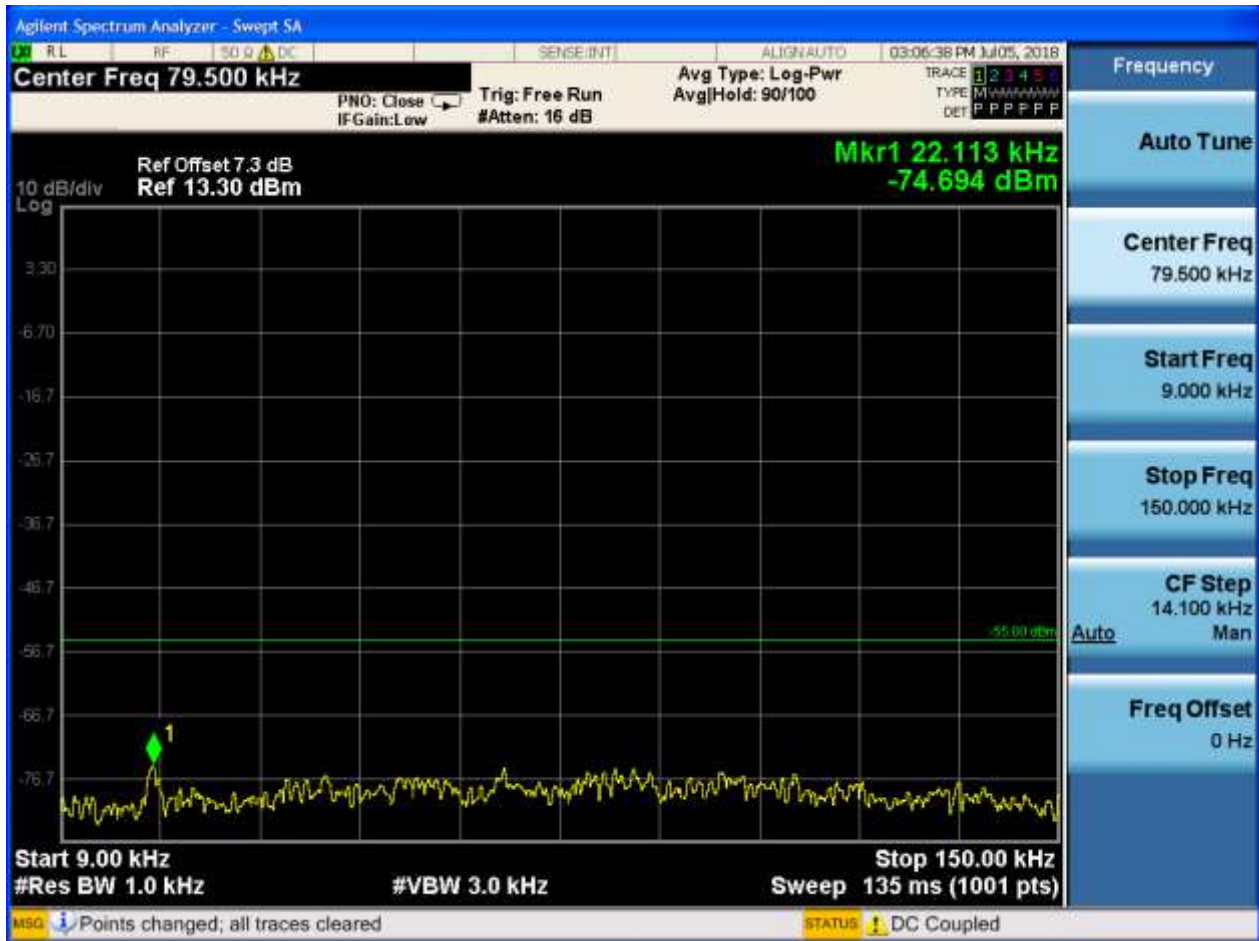






6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0









6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





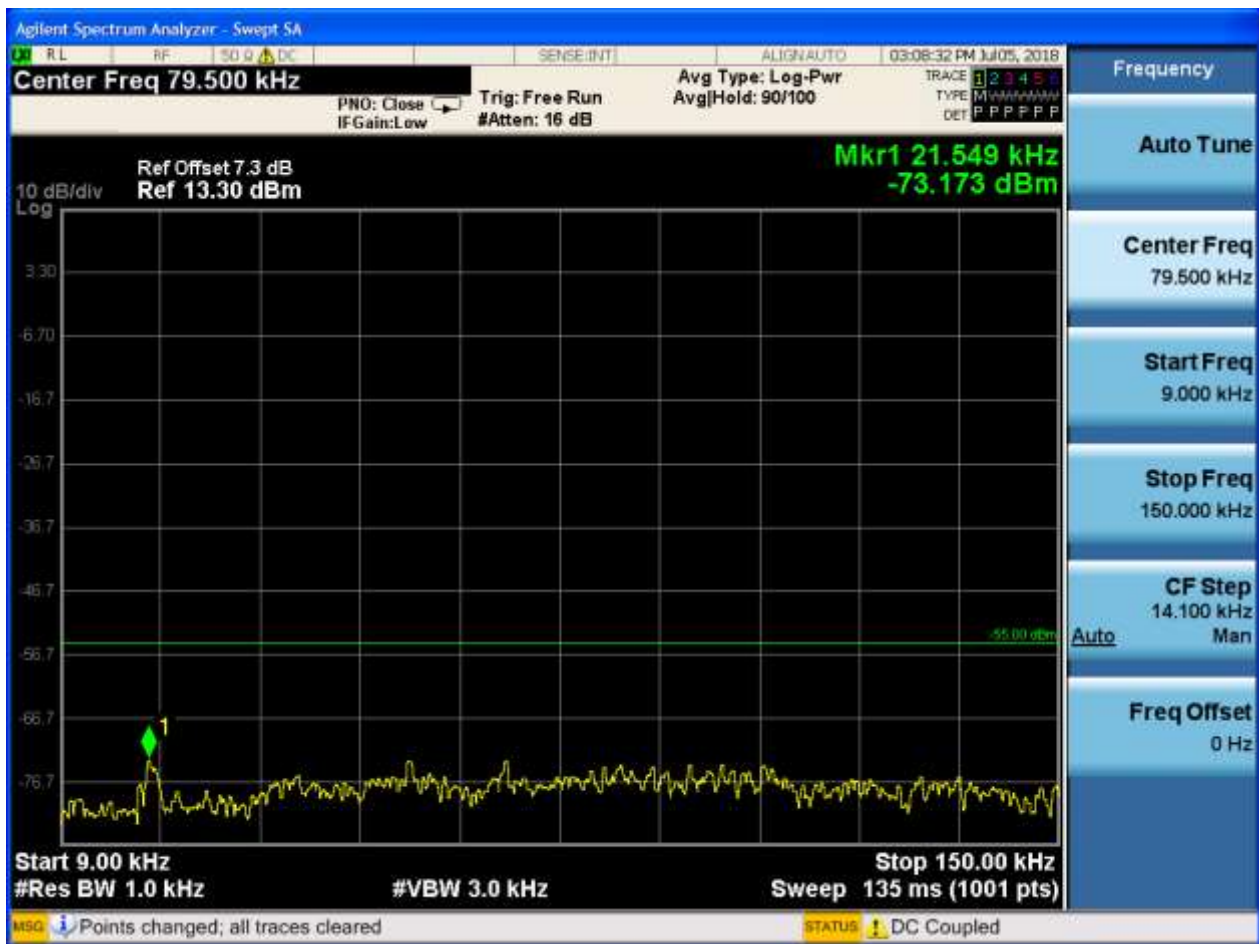




6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



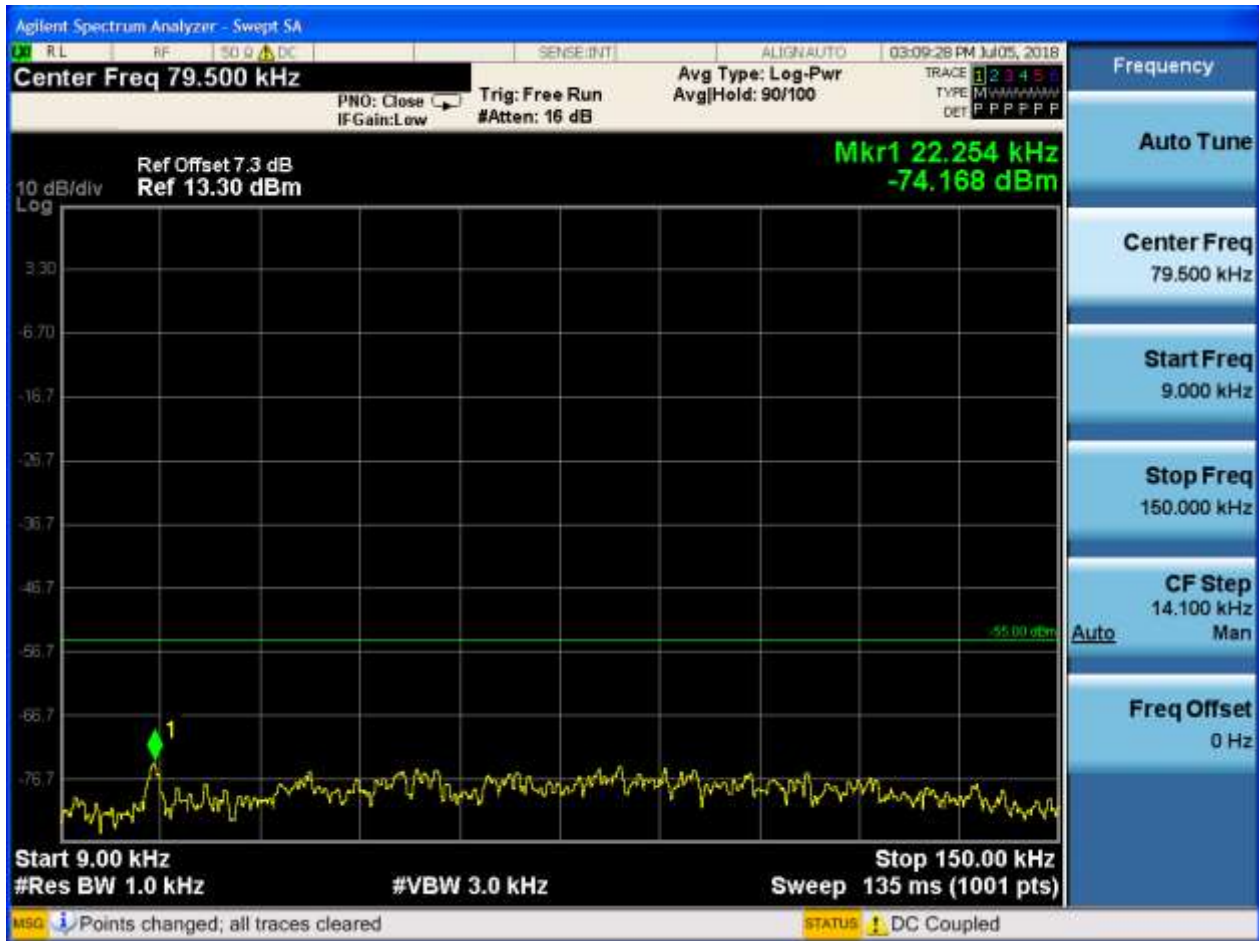






6.1.1.1.3.2 Test Channel = MCH

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

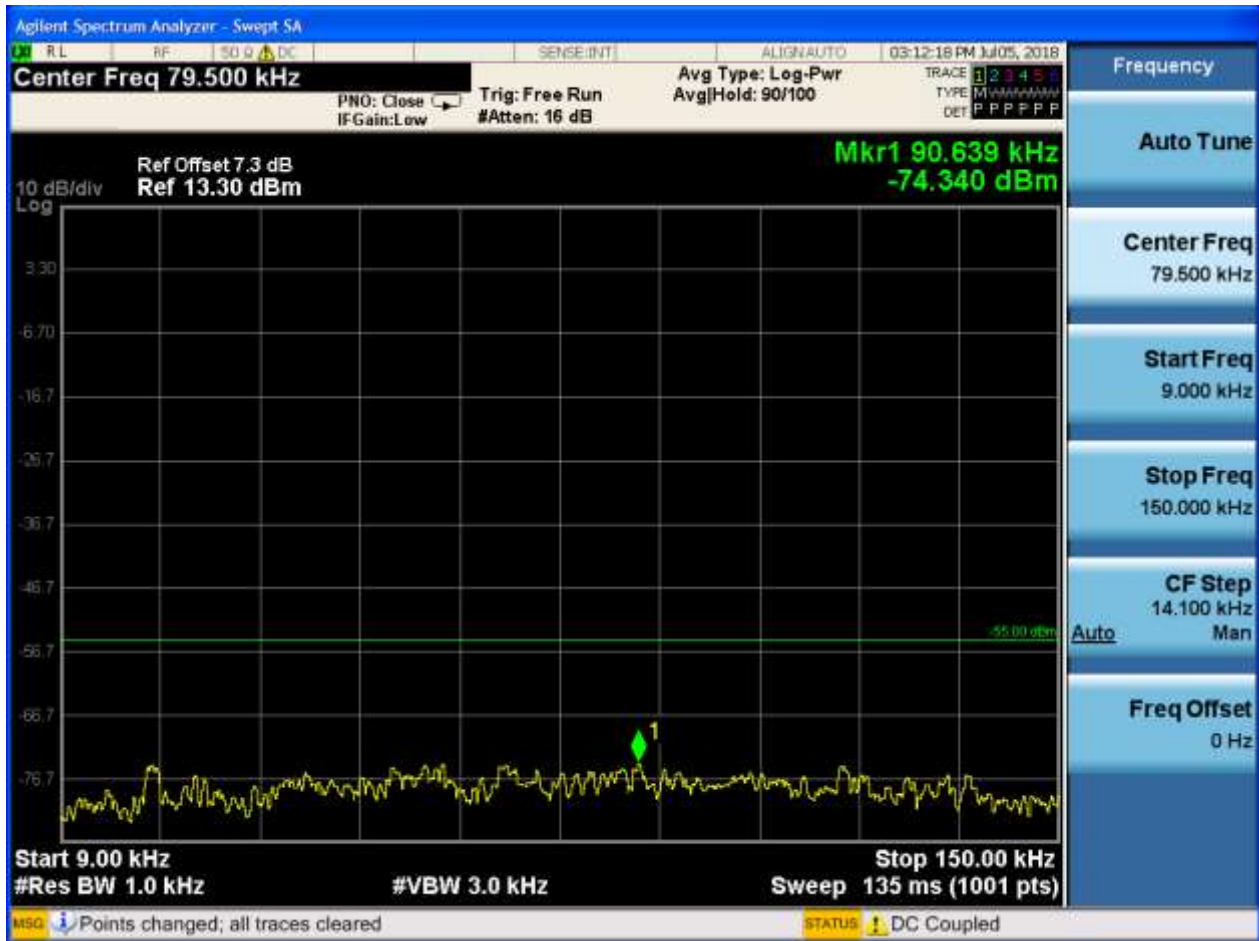






6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0







6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







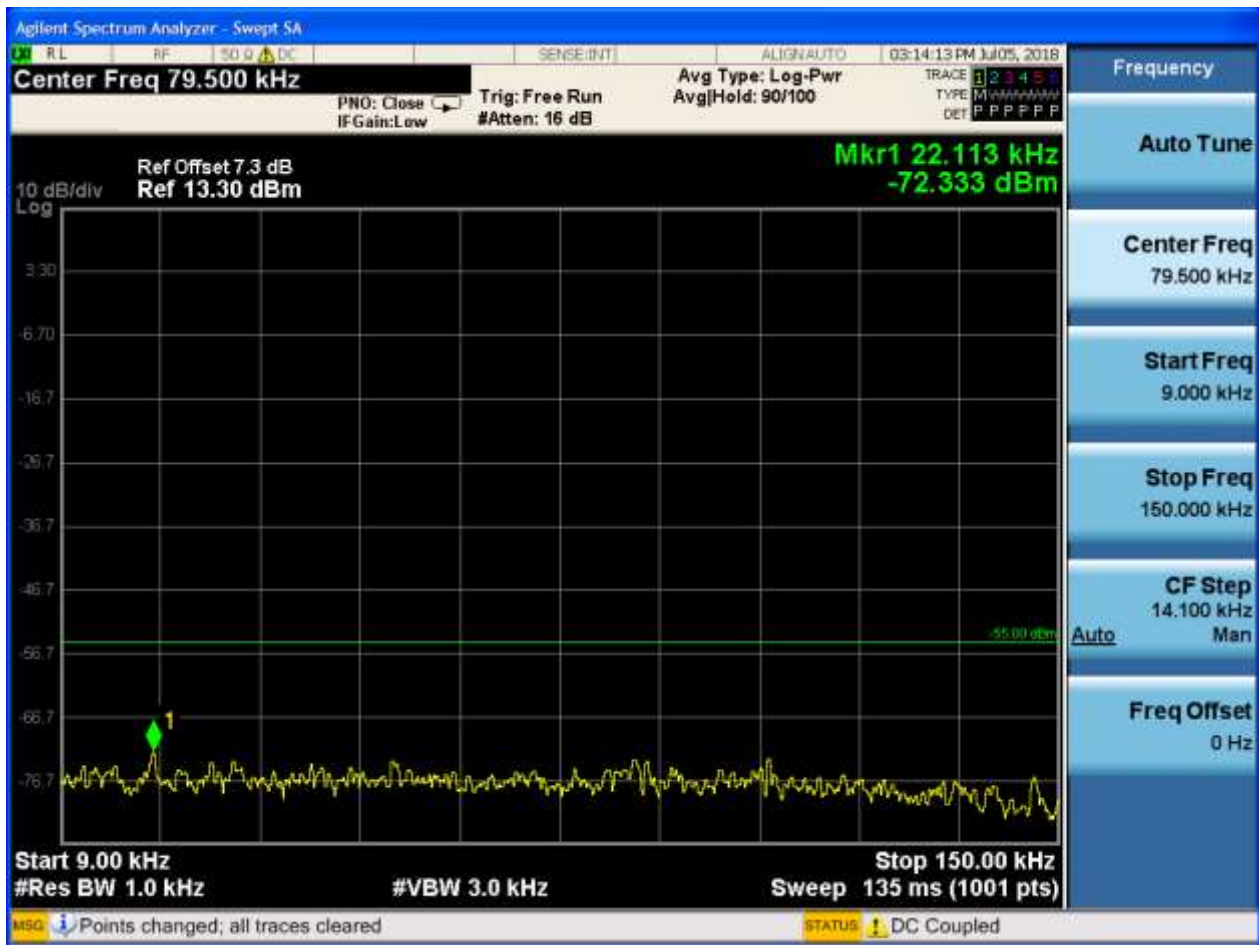


6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

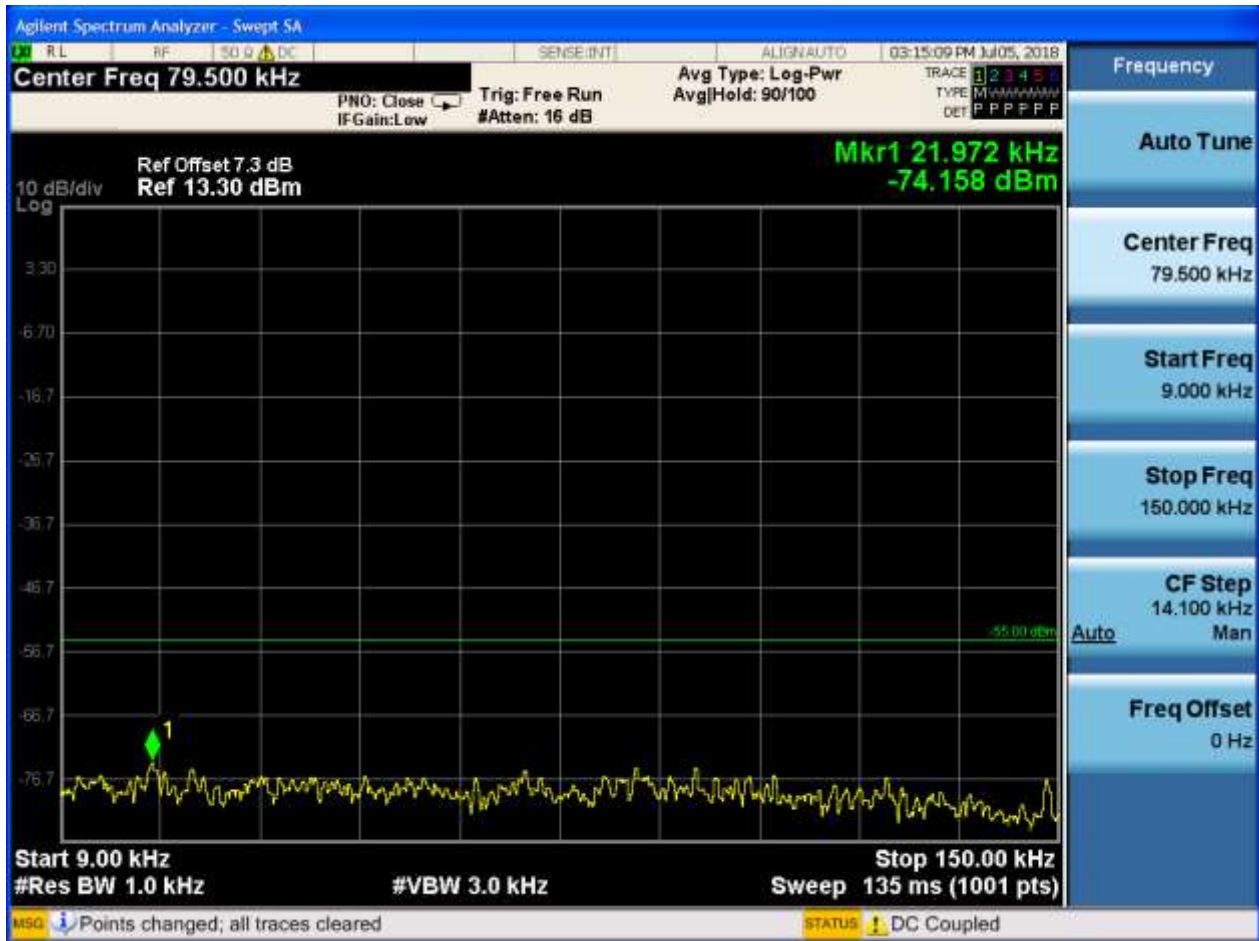






6.1.1.2.1.2 Test Channel = MCH

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





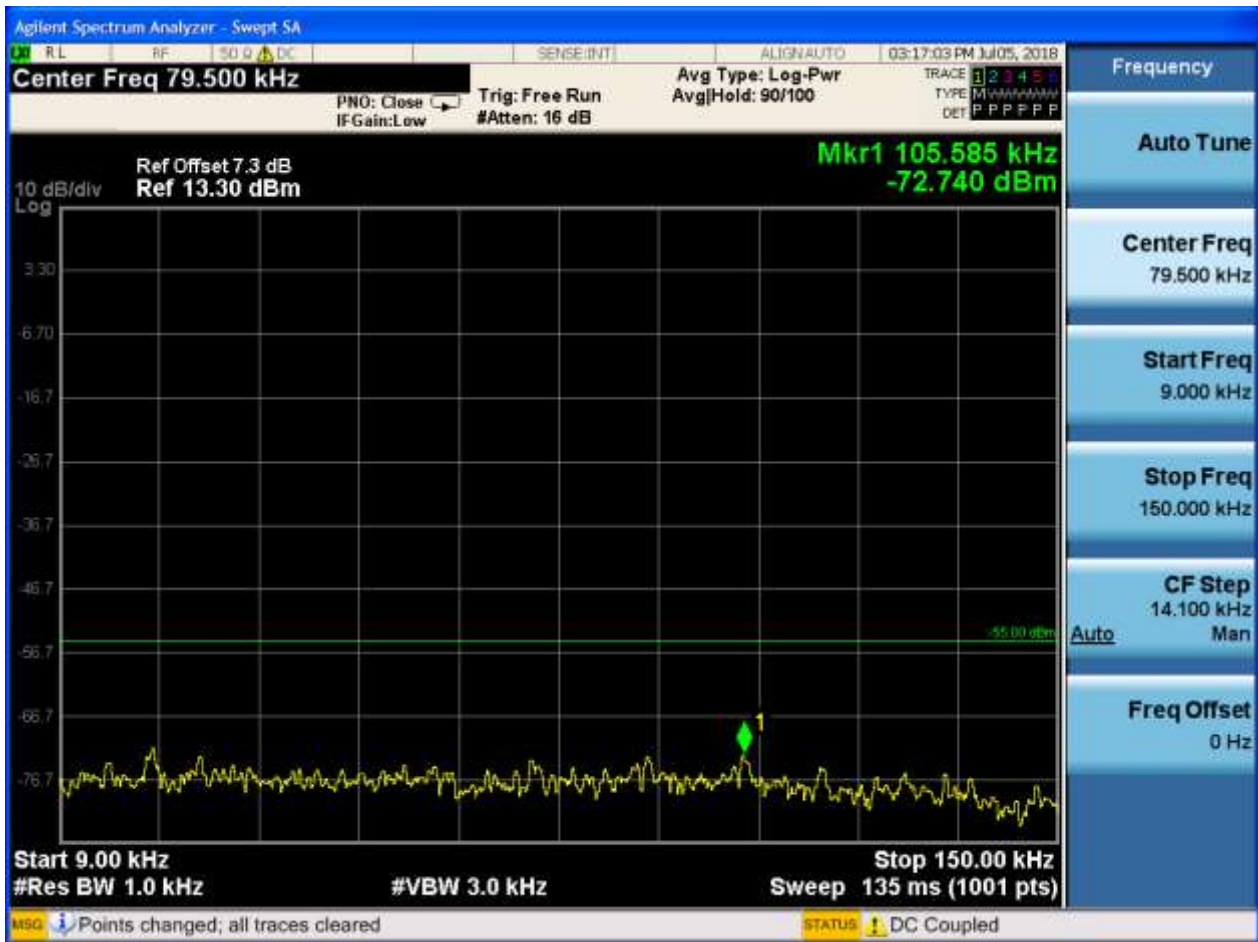




6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0













6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





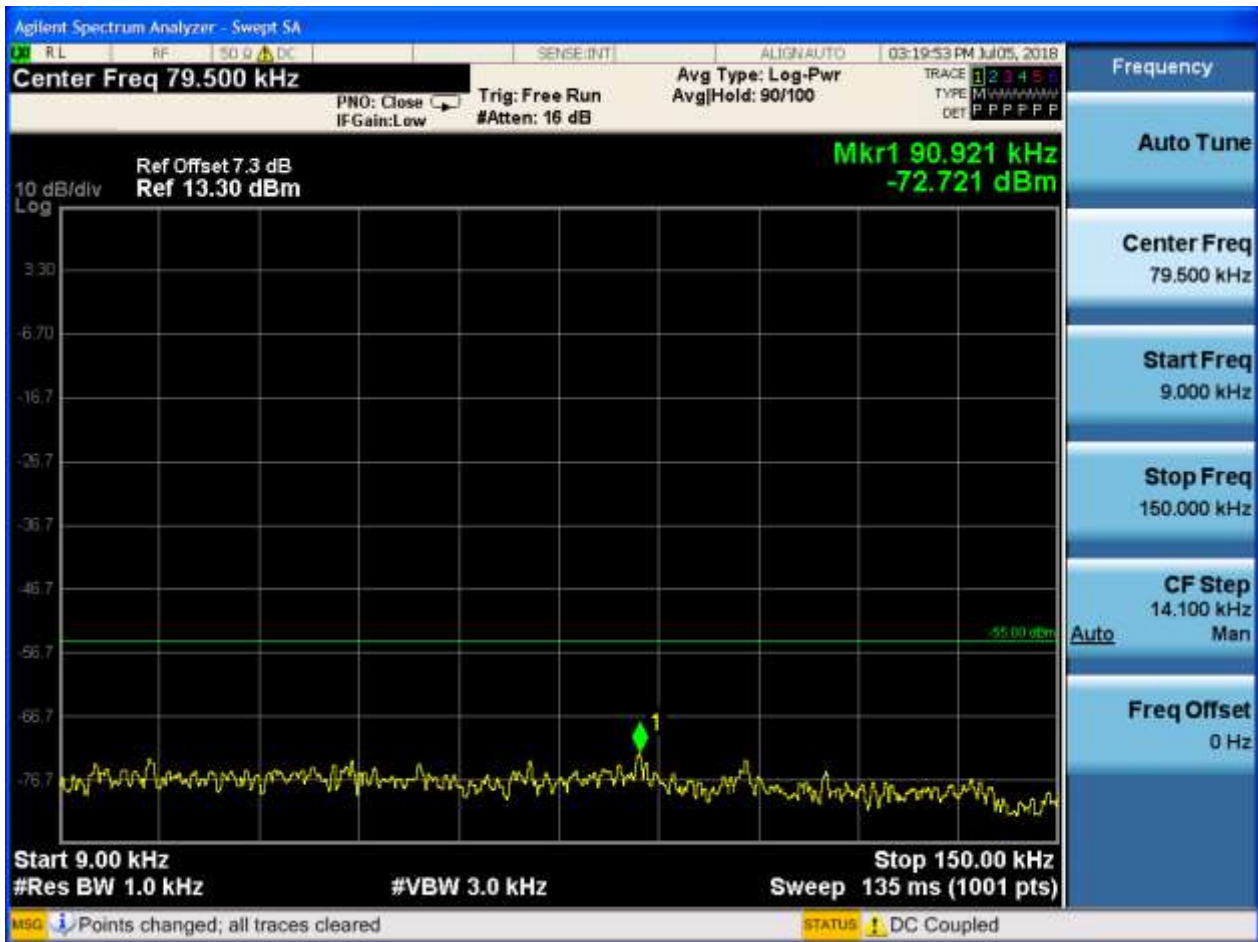




6.1.1.2.3 Test Bandwidth = 15

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



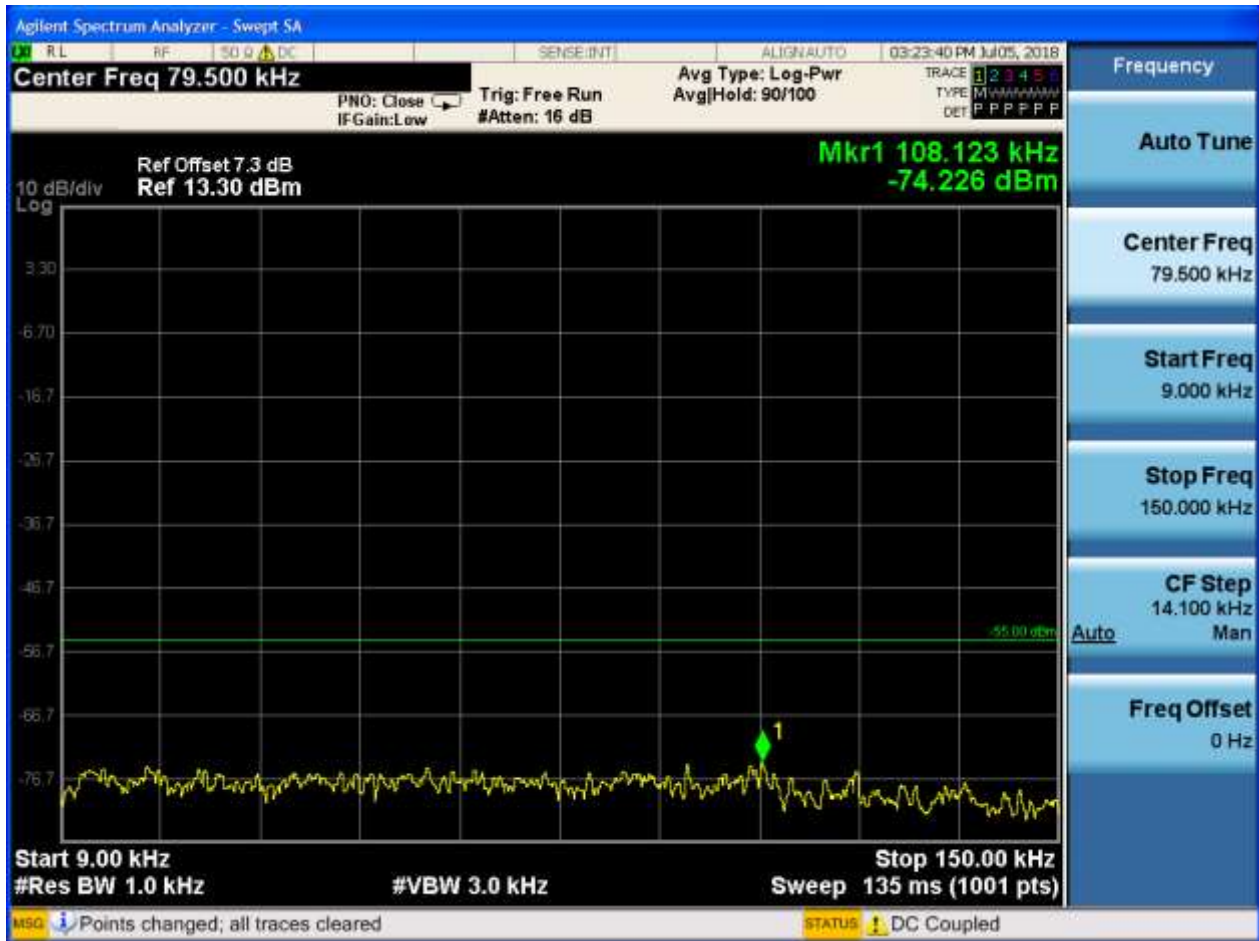






6.1.1.2.4.2 Test Channel = MCH

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

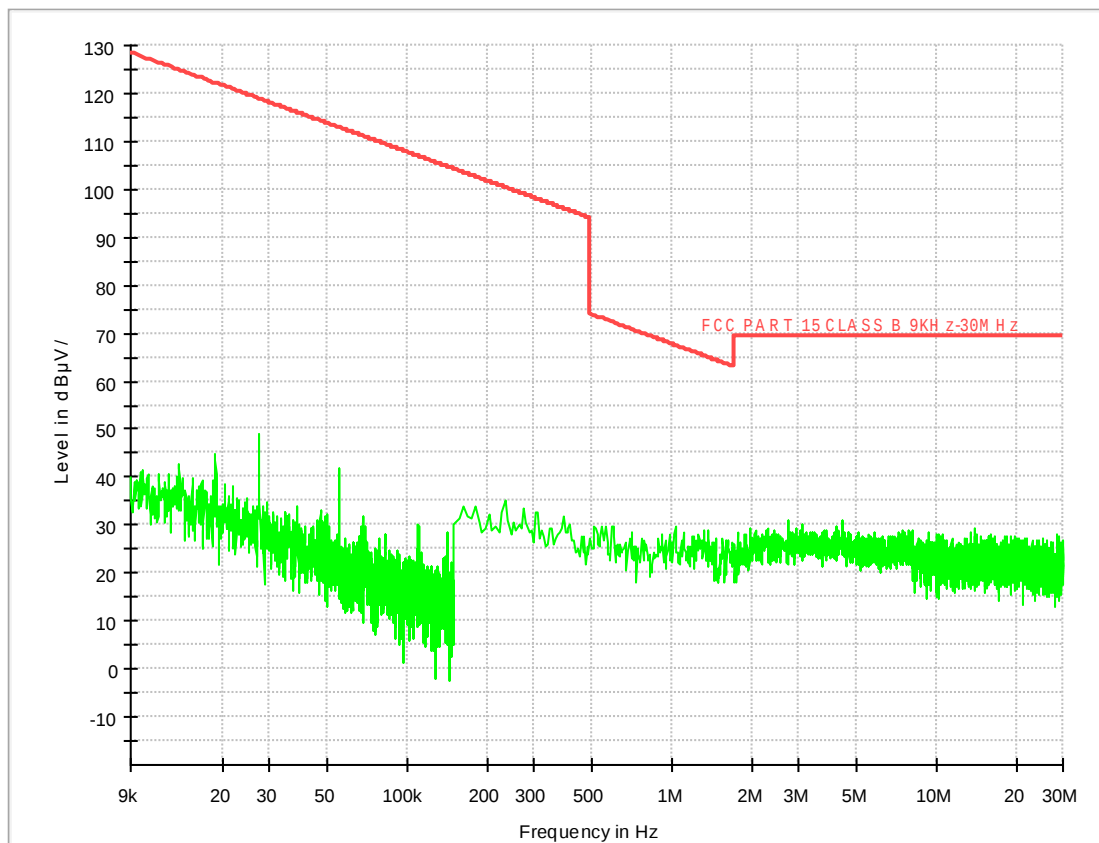
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

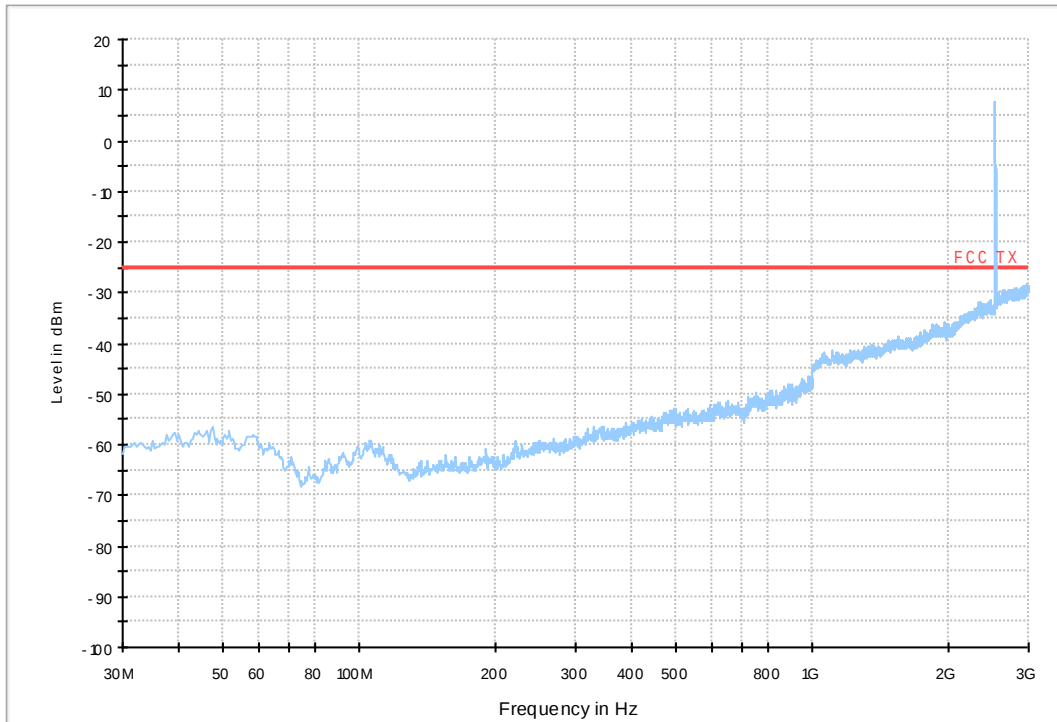
7.1.1 Test Band = BAND7-Ant1

7.1.1.1 Test Bandwidth = 5

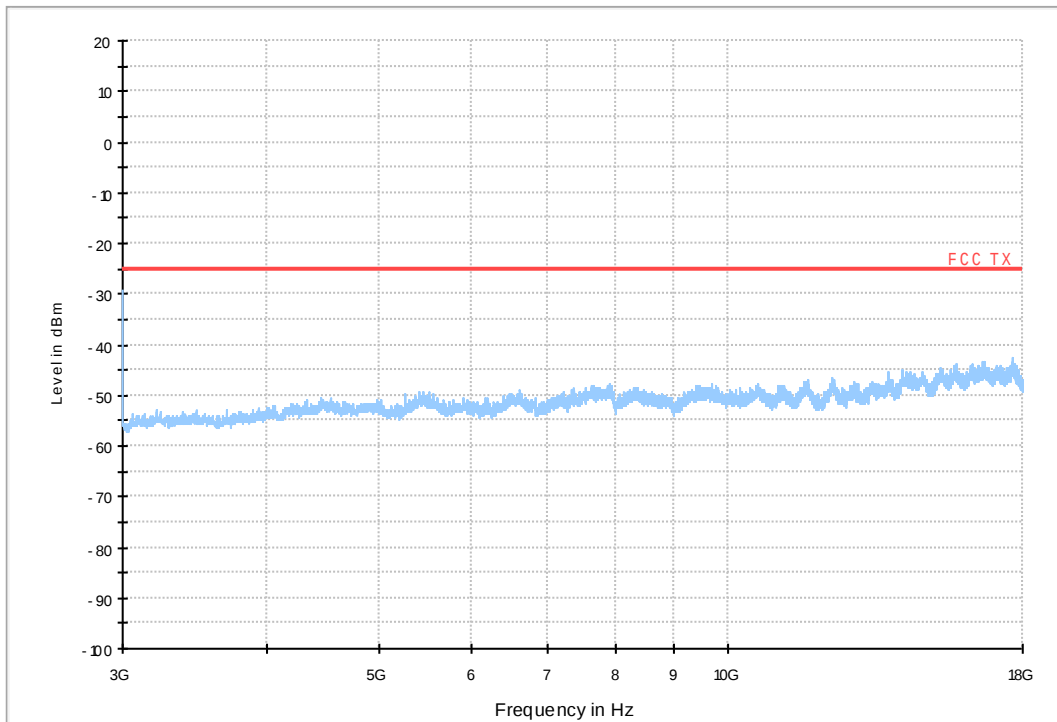




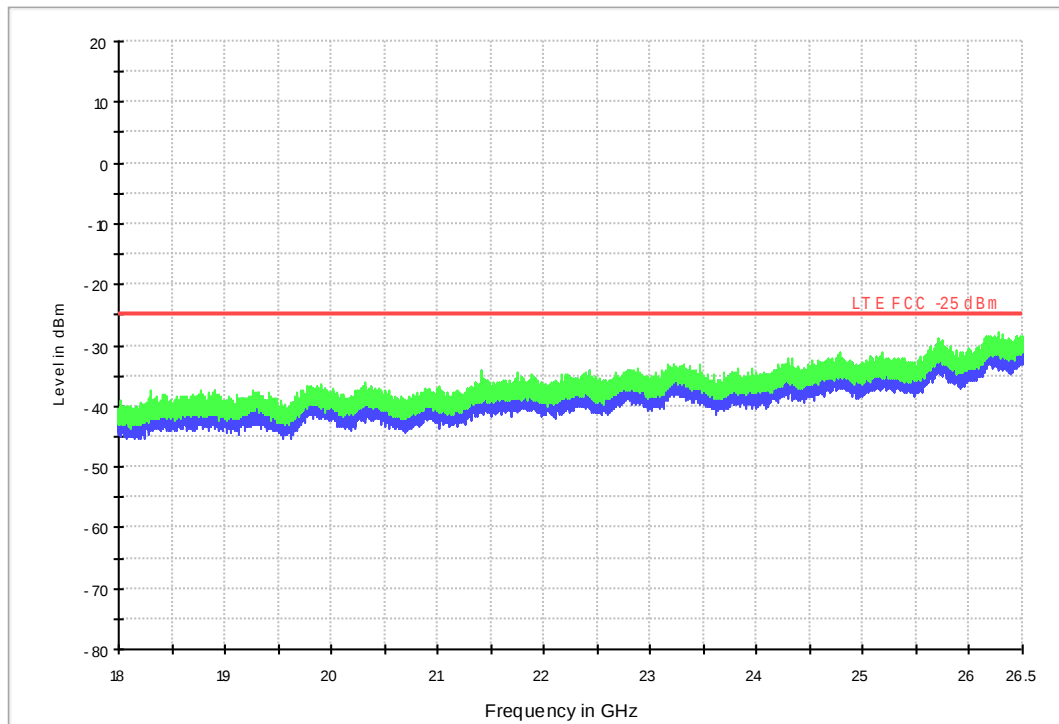
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



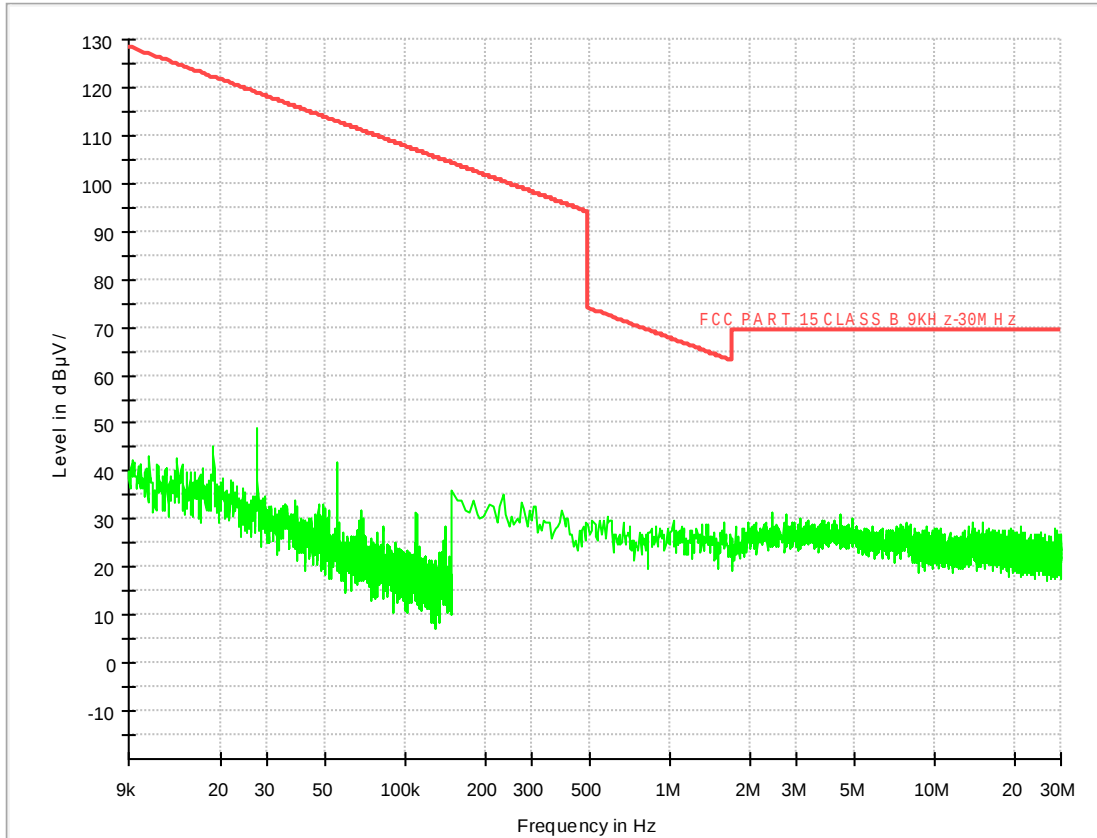
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



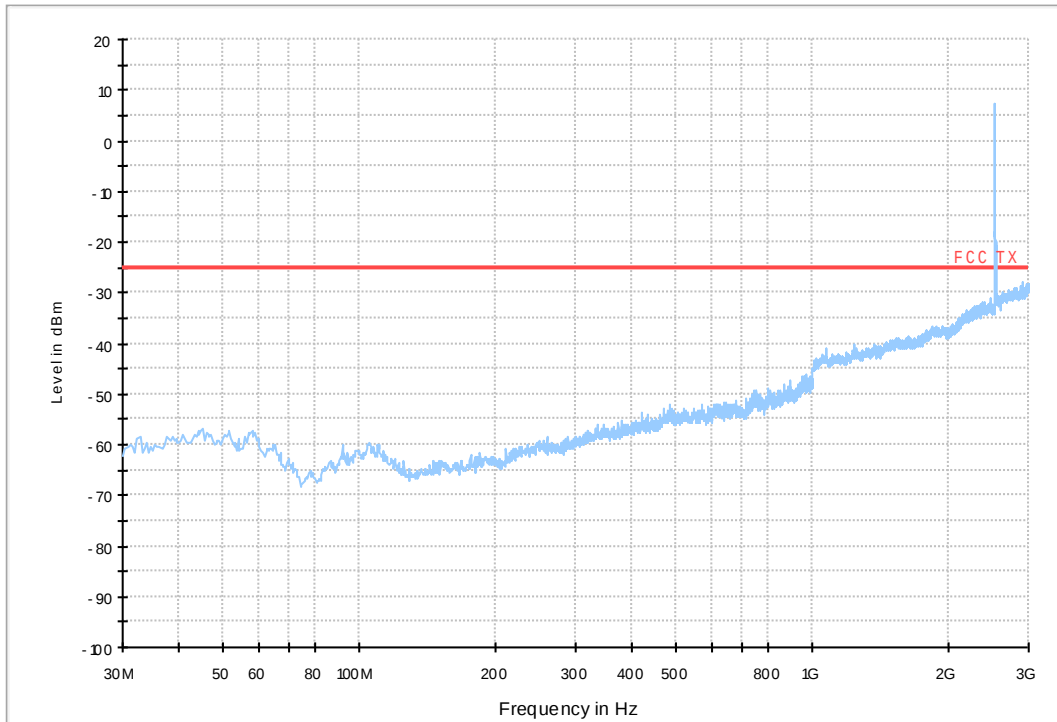
18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



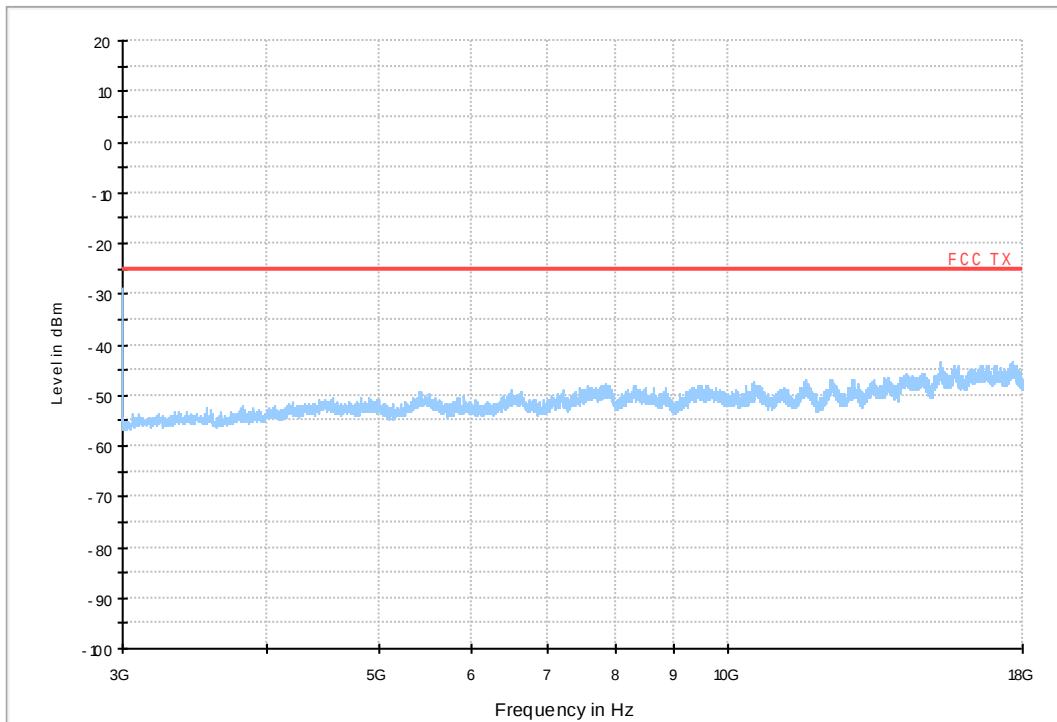
7.1.1.2 Test Bandwidth = 20



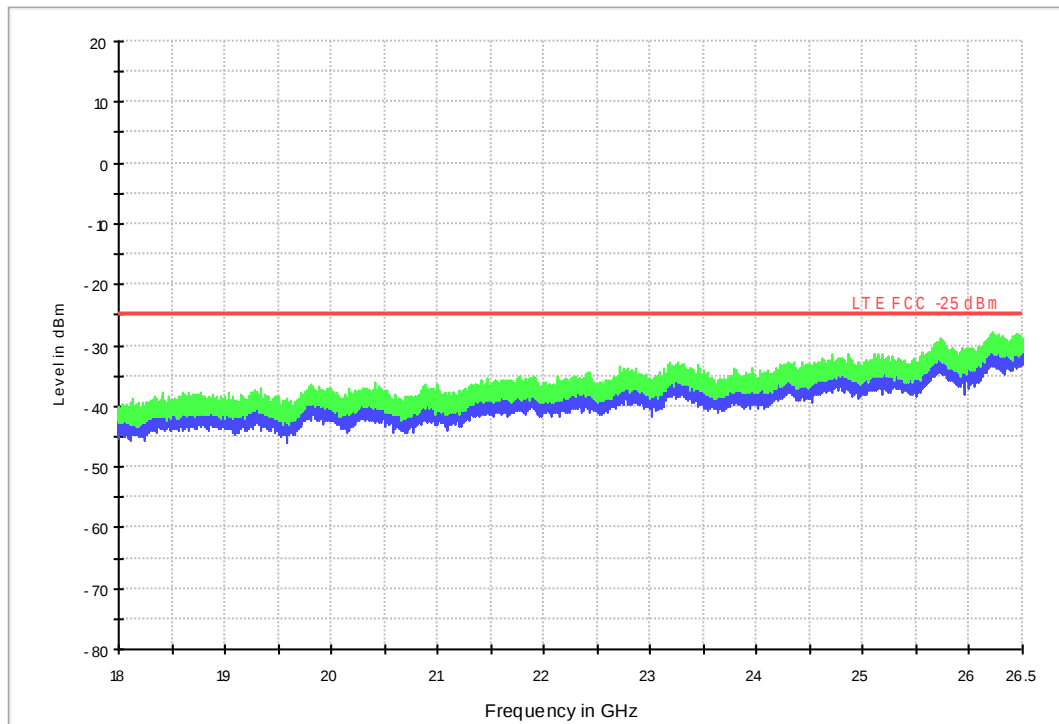
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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

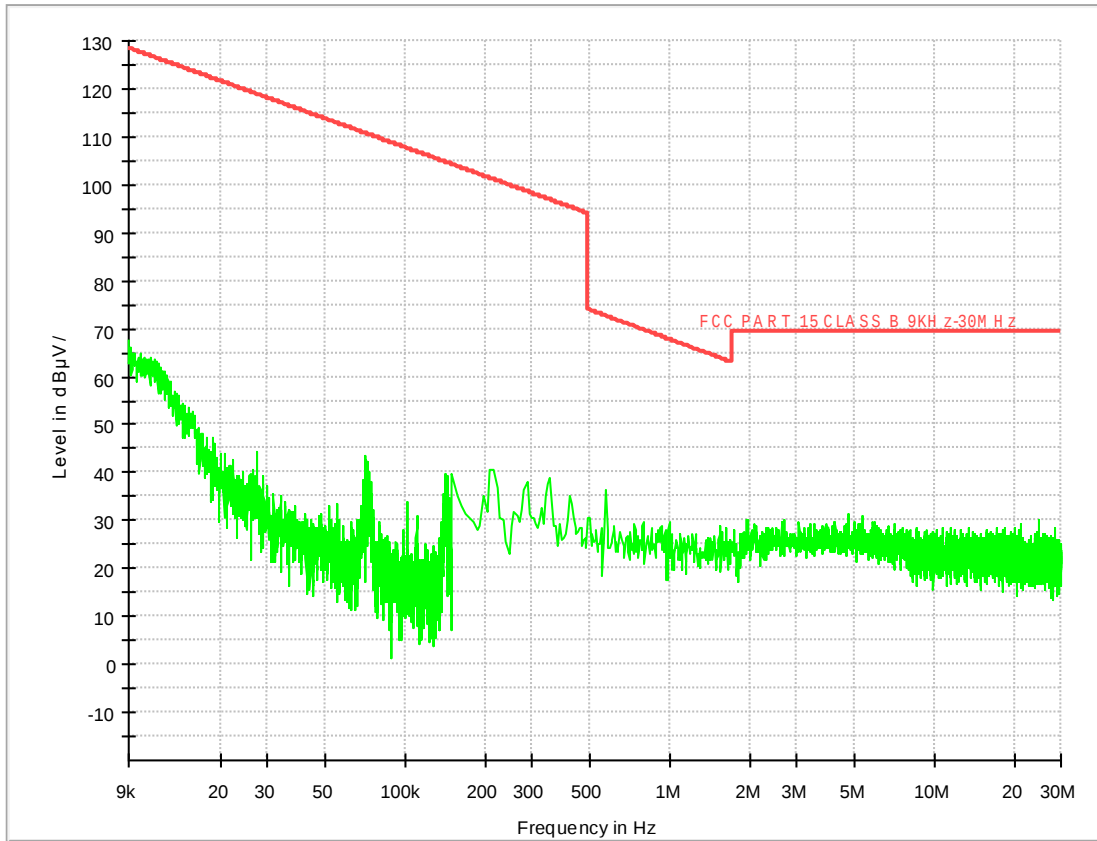


18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



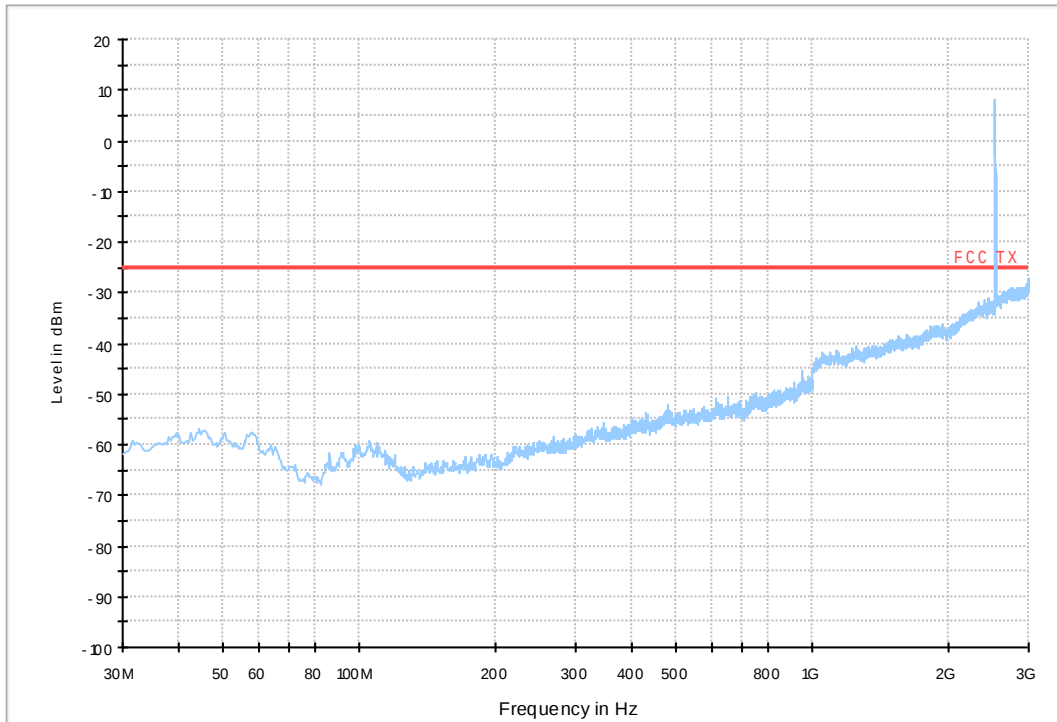
7.1.2 Test Band = BAND7-Ant2

7.1.2.1 Test Bandwidth = 5

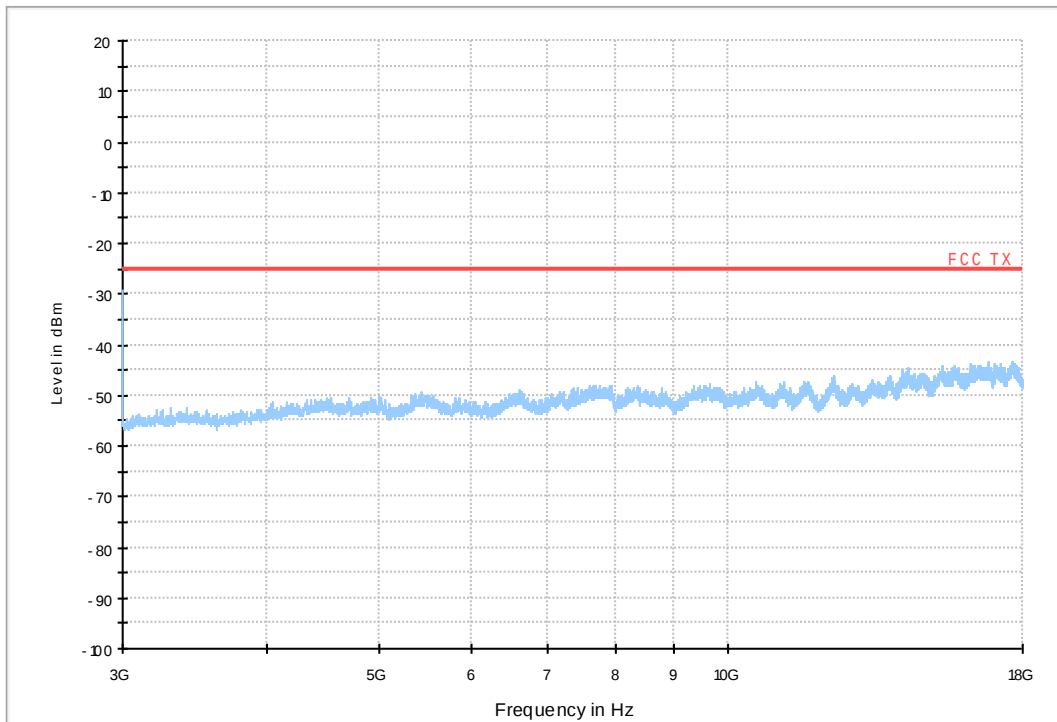




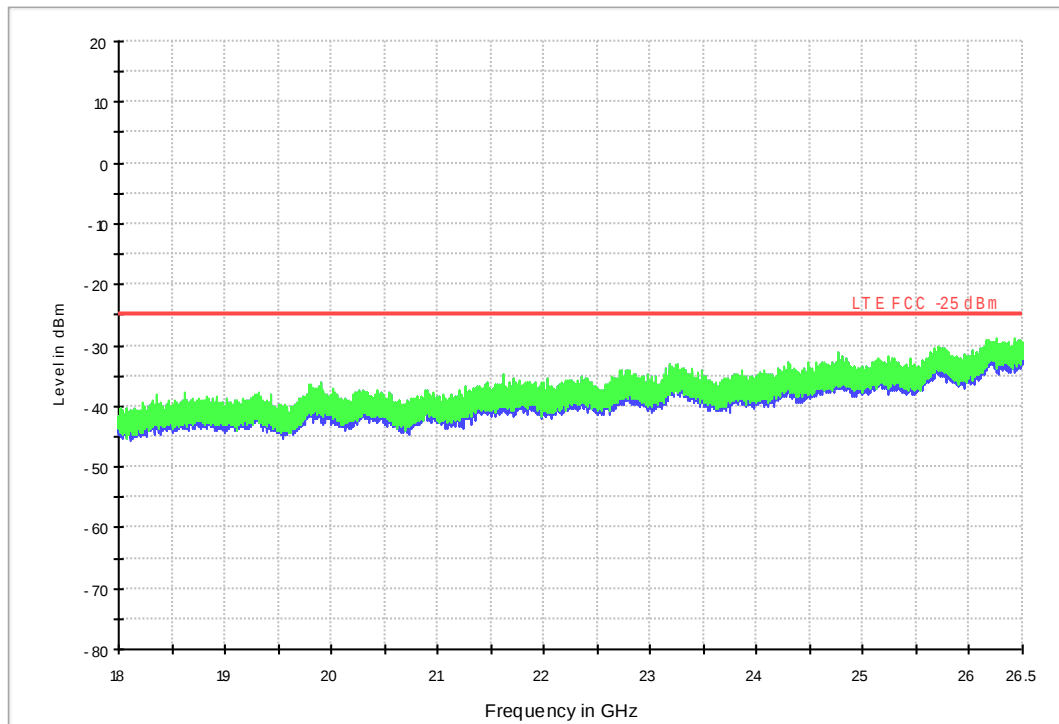
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



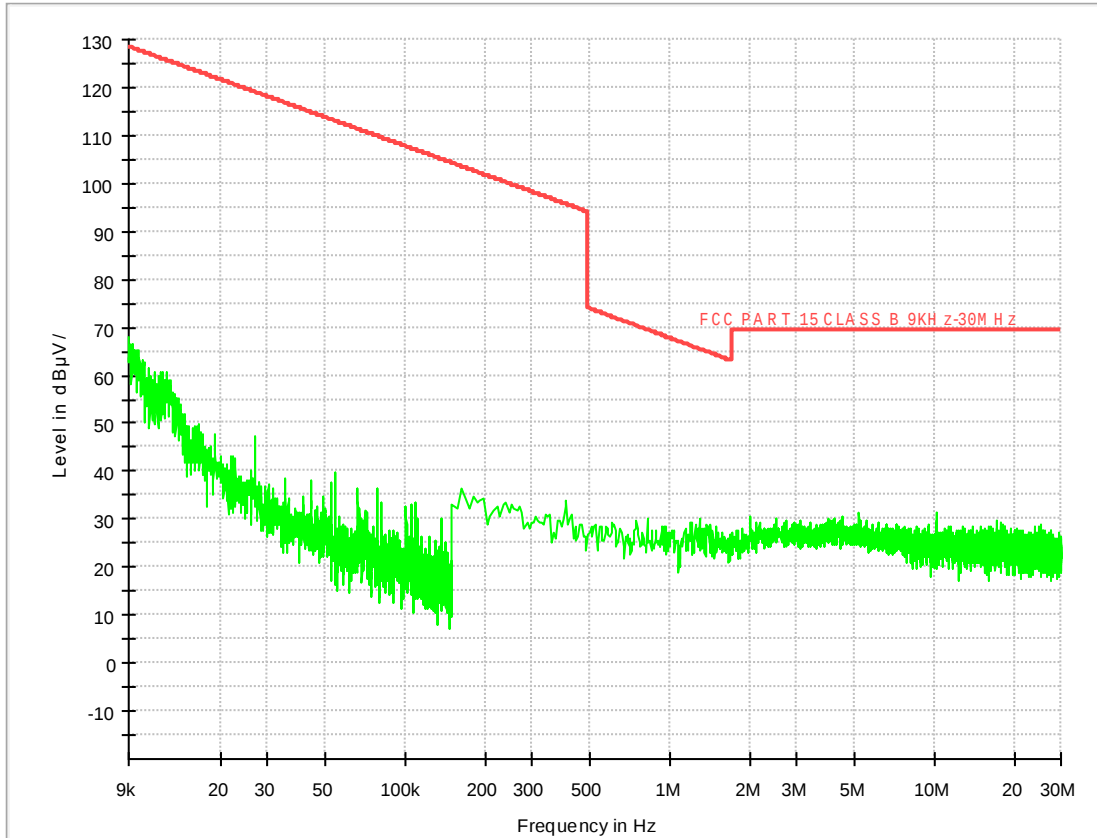
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



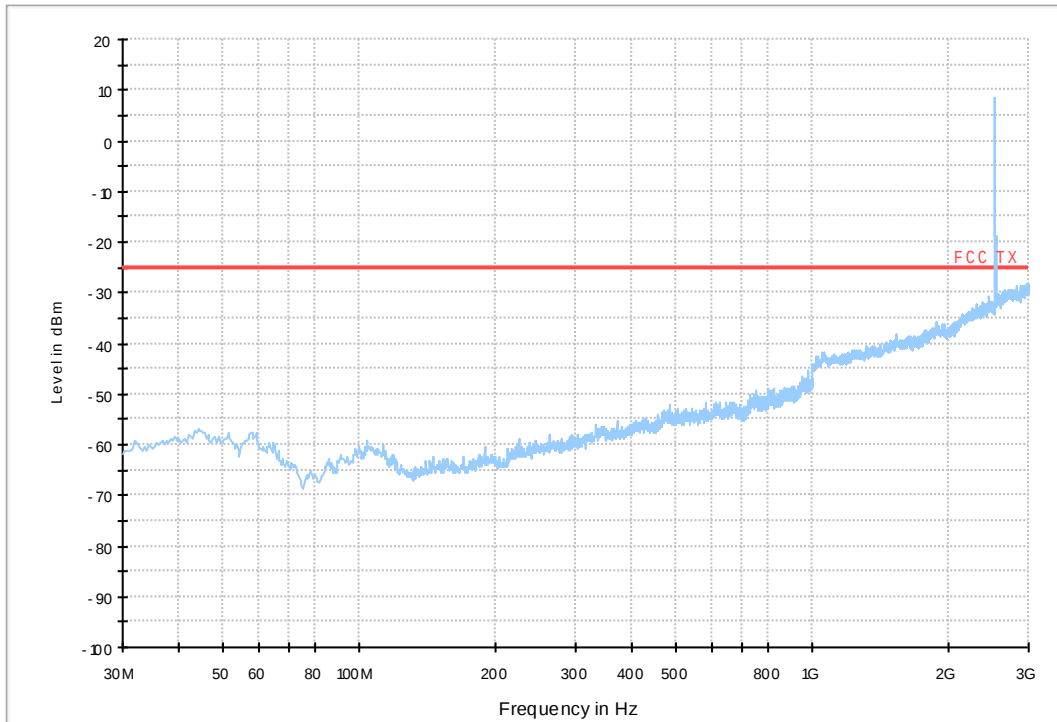
18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



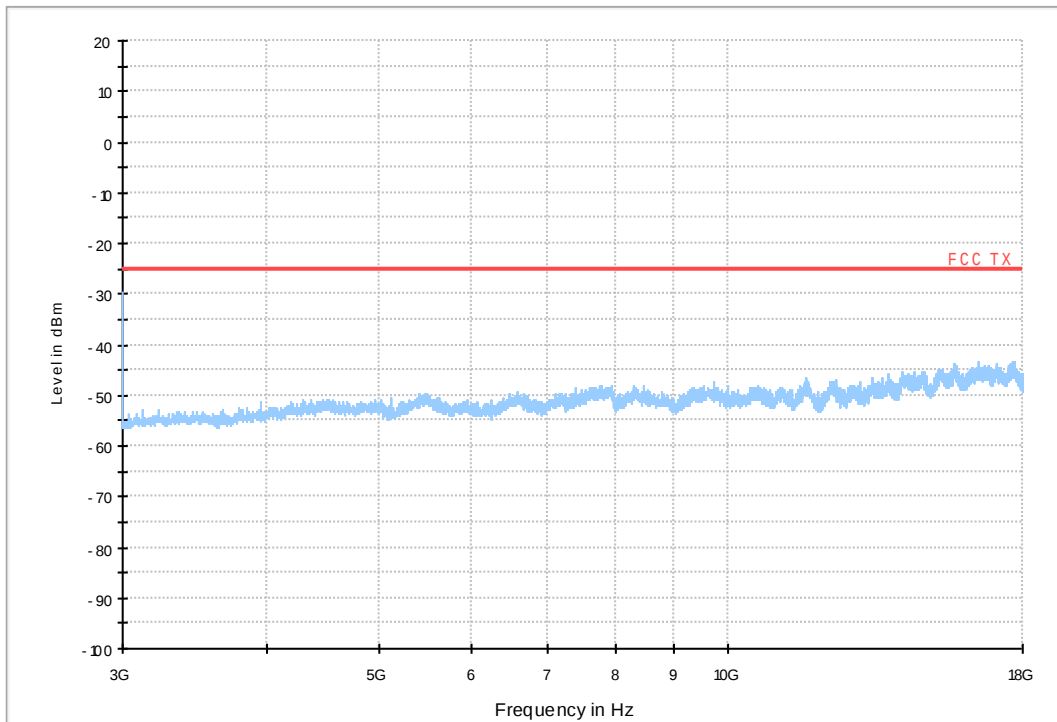
7.1.2.2 Test Bandwidth = 20



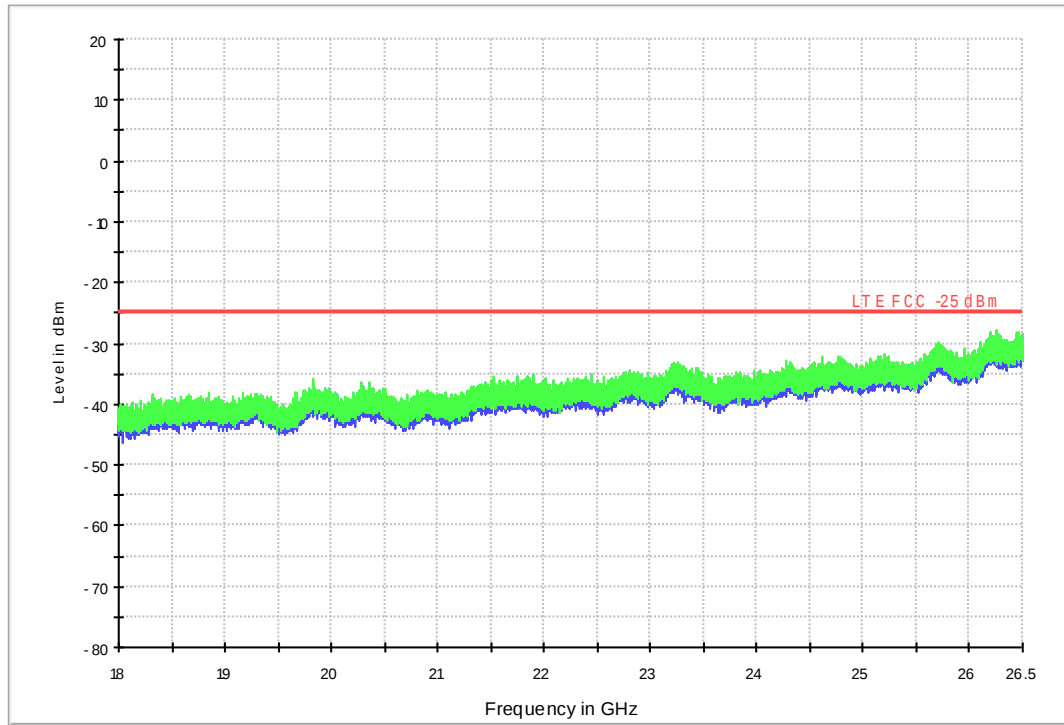
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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

8.1.1 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
BAND7	LTE/TM1	5	LCH	TN	VL	0.20	0.00008	PASS
					VN	4.18	0.00167	PASS
					VH	0.31	0.00012	PASS
			MCH	TN	VL	1.13	0.00045	PASS
					VN	0.67	0.00026	PASS
					VH	-31.09	-0.01226	PASS
			HCH	TN	VL	-2.95	-0.00115	PASS
					VN	-29.98	-0.01168	PASS
					VH	-6.35	-0.00247	PASS
		10	LCH	TN	VL	-0.67	-0.00027	PASS
					VN	-0.94	-0.00038	PASS
					VH	1.87	0.00075	PASS
			MCH	TN	VL	-2.23	-0.00088	PASS
					VN	-16.38	-0.00646	PASS
					VH	0.27	0.00011	PASS
			HCH	TN	VL	-4.92	-0.00192	PASS
					VN	-5.91	-0.0023	PASS
					VH	-14.49	-0.00565	PASS
		15	LCH	TN	VL	-0.21	-0.00008	PASS
					VN	-2.50	-0.001	PASS
					VH	-1.79	-0.00071	PASS
			MCH	TN	VL	0.27	0.00011	PASS
					VN	1.83	0.00072	PASS
					VH	0.69	0.00027	PASS
			HCH	TN	VL	-2.82	-0.0011	PASS
					VN	-3.06	-0.00119	PASS
					VH	-2.78	-0.00108	PASS
		20	LCH	TN	VL	-0.30	-0.00012	PASS
					VN	-2.37	-0.00094	PASS
					VH	-2.32	-0.00092	PASS
			MCH	TN	VL	-0.51	-0.0002	PASS
					VN	0.39	0.00015	PASS
					VH	-2.02	-0.0008	PASS
			HCH	TN	VL	-1.65	-0.00064	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	-1.92	-0.00075	PASS
					VH	-0.16	-0.00006	PASS
		5	LCH	TN	VL	3.91	0.00156	PASS
					VN	4.02	0.00161	PASS
					VH	1.85	0.00074	PASS
					VL	-2.52	-0.00099	PASS
			MCH	TN	VN	-20.27	-0.008	PASS
					VH	0.99	0.00039	PASS
					VL	-0.67	-0.00026	PASS
					VN	-7.12	-0.00277	PASS
					VH	-18.61	-0.00725	PASS
			HCH	TN	VL	-0.67	-0.00026	PASS
					VN	-7.12	-0.00277	PASS
					VH	-18.61	-0.00725	PASS
		10	LCH	TN	VL	3.32	0.00133	PASS
					VN	0.16	0.00006	PASS
					VH	-1.97	-0.00079	PASS
			MCH	TN	VL	1.36	0.00054	PASS
					VN	-1.02	-0.0004	PASS
					VH	2.00	0.00079	PASS
			HCH	TN	VL	-8.38	-0.00327	PASS
					VN	-4.18	-0.00163	PASS
					VH	-19.66	-0.00766	PASS
		15	LCH	TN	VL	1.27	0.00051	PASS
					VN	-0.57	-0.00023	PASS
					VH	0.04	0.00002	PASS
			MCH	TN	VL	-10.37	-0.00409	PASS
					VN	1.24	0.00049	PASS
					VH	-1.22	-0.00048	PASS
			HCH	TN	VL	-3.33	-0.0013	PASS
					VN	-3.49	-0.00136	PASS
					VH	-1.39	-0.00054	PASS
		20	LCH	TN	VL	0.41	0.00016	PASS
					VN	0.11	0.00004	PASS
					VH	0.16	0.00006	PASS
			MCH	TN	VL	-2.89	-0.00114	PASS
					VN	-1.07	-0.00042	PASS
					VH	0.07	0.00003	PASS
			HCH	TN	VL	-0.09	-0.00004	PASS
					VN	-0.90	-0.00035	PASS
					VH	0.69	0.00027	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	-2.53	-0.00101	PASS
					-20	-1.77	-0.00071	PASS
					-10	-0.80	-0.00032	PASS
					0	-1.60	-0.00064	PASS
					10	-3.95	-0.00158	PASS
					20	-1.87	-0.00075	PASS
					30	0.99	0.0004	PASS
					40	0.30	0.00012	PASS
					50	0.13	0.00005	PASS
			MCH	VN	-30	2.55	0.00101	PASS
					-20	-31.84	-0.01256	PASS
					-10	-1.53	-0.0006	PASS
					0	0.30	0.00012	PASS
					10	-27.17	-0.01072	PASS
					20	-2.00	-0.00079	PASS
					30	0.09	0.00004	PASS
					40	1.97	0.00078	PASS
					50	-3.38	-0.00133	PASS
			HCH	VN	-30	-18.05	-0.00703	PASS
					-20	-5.14	-0.002	PASS
					-10	-9.60	-0.00374	PASS
					0	-5.11	-0.00199	PASS
					10	-1.40	-0.00055	PASS
					20	-3.29	-0.00128	PASS
					30	-4.22	-0.00164	PASS
					40	-1.13	-0.00044	PASS
					50	-21.29	-0.00829	PASS
		10	LCH	VN	-30	-0.30	-0.00012	PASS
					-20	1.03	0.00041	PASS
					-10	2.12	0.00085	PASS
					0	-0.69	-0.00028	PASS
					10	2.23	0.00089	PASS
					20	5.38	0.00215	PASS
					30	-1.06	-0.00042	PASS
					40	2.36	0.00094	PASS
					50	0.34	0.00014	PASS
			MCH	VN	-30	2.62	0.00103	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-17.82	-0.00703	PASS
					-10	-11.97	-0.00472	PASS
					0	-1.27	-0.0005	PASS
					10	2.63	0.00104	PASS
					20	-22.50	-0.00888	PASS
					30	0.69	0.00027	PASS
					40	1.07	0.00042	PASS
					50	-1.76	-0.00069	PASS
			HCH	VN	-30	-2.33	-0.00091	PASS
					-20	-4.03	-0.00157	PASS
					-10	-18.68	-0.00728	PASS
					0	-2.62	-0.00102	PASS
					10	-9.66	-0.00377	PASS
					20	-2.23	-0.00087	PASS
					30	-12.22	-0.00476	PASS
					40	-21.10	-0.00823	PASS
					50	-2.49	-0.00097	PASS
		15	LCH	VN	-30	2.79	0.00111	PASS
					-20	-1.06	-0.00042	PASS
					-10	1.79	0.00071	PASS
					0	-0.47	-0.00019	PASS
					10	1.44	0.00057	PASS
					20	0.09	0.00004	PASS
					30	1.50	0.0006	PASS
					40	2.49	0.00099	PASS
					50	-0.67	-0.00027	PASS
			MCH	VN	-30	-6.47	-0.00255	PASS
					-20	-12.56	-0.00495	PASS
					-10	2.66	0.00105	PASS
					0	-1.37	-0.00054	PASS
					10	-1.72	-0.00068	PASS
					20	0.13	0.00005	PASS
					30	0.06	0.00002	PASS
					40	-12.30	-0.00485	PASS
					50	-1.29	-0.00051	PASS
			HCH	VN	-30	-5.85	-0.00228	PASS
					-20	-10.59	-0.00413	PASS
					-10	-3.50	-0.00137	PASS
					0	-2.47	-0.00096	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-1.86	-0.00073	PASS
					20	-1.34	-0.00052	PASS
					30	-3.06	-0.00119	PASS
					40	-2.19	-0.00085	PASS
					50	-0.33	-0.00013	PASS
		20	LCH	VN	-30	-0.84	-0.00033	PASS
					-20	-1.27	-0.00051	PASS
					-10	0.39	0.00016	PASS
					0	0.96	0.00038	PASS
					10	1.60	0.00064	PASS
					20	-1.76	-0.0007	PASS
					30	-1.13	-0.00045	PASS
					40	-0.11	-0.00004	PASS
					50	0.07	0.00003	PASS
			MCH	VN	-30	0.67	0.00026	PASS
					-20	0.26	0.0001	PASS
					-10	0.00	0	PASS
					0	-0.24	-0.00009	PASS
					10	-0.21	-0.00008	PASS
					20	-1.14	-0.00045	PASS
					30	1.14	0.00045	PASS
					40	0.59	0.00023	PASS
					50	-1.80	-0.00071	PASS
			HCH	VN	-30	-2.16	-0.00084	PASS
					-20	-0.23	-0.00009	PASS
					-10	-3.30	-0.00129	PASS
					0	1.63	0.00064	PASS
					10	-0.80	-0.00031	PASS
					20	-0.83	-0.00032	PASS
					30	0.57	0.00022	PASS
					40	0.77	0.0003	PASS
					50	2.68	0.00105	PASS
	LTE/TM2	5	LCH	VN	-30	2.75	0.0011	PASS
					-20	1.27	0.00051	PASS
					-10	0.23	0.00009	PASS
					0	-0.29	-0.00012	PASS
					10	-14.35	-0.00573	PASS
					20	5.19	0.00207	PASS
					30	2.46	0.00098	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	1.04	0.00042	PASS
					50	-0.33	-0.00013	PASS
			MCH	VN	-30	1.73	0.00068	PASS
					-20	-20.53	-0.0081	PASS
					-10	1.53	0.0006	PASS
					0	1.03	0.00041	PASS
					10	-25.29	-0.00998	PASS
					20	-0.11	-0.00004	PASS
					30	0.90	0.00036	PASS
					40	3.03	0.0012	PASS
					50	-22.77	-0.00898	PASS
			HCH	VN	-30	-15.56	-0.00606	PASS
					-20	0.94	0.00037	PASS
					-10	-0.29	-0.00011	PASS
					0	-2.17	-0.00085	PASS
					10	-0.29	-0.00011	PASS
					20	-1.66	-0.00065	PASS
					30	1.62	0.00063	PASS
					40	-21.69	-0.00845	PASS
					50	-0.17	-0.00007	PASS
		10	LCH	VN	-30	-1.26	-0.0005	PASS
					-20	0.67	0.00027	PASS
					-10	0.20	0.00008	PASS
					0	-18.27	-0.00729	PASS
					10	2.62	0.00105	PASS
					20	-0.69	-0.00028	PASS
					30	1.03	0.00041	PASS
					40	0.80	0.00032	PASS
					50	0.14	0.00006	PASS
			MCH	VN	-30	-8.94	-0.00353	PASS
					-20	-16.99	-0.0067	PASS
					-10	-14.59	-0.00576	PASS
					0	-18.21	-0.00718	PASS
					10	0.77	0.0003	PASS
					20	-14.05	-0.00554	PASS
					30	-13.03	-0.00514	PASS
					40	-2.07	-0.00082	PASS
					50	-0.93	-0.00037	PASS
			HCH	VN	-30	-2.93	-0.00114	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-2.17	-0.00085	PASS
					-10	-13.69	-0.00534	PASS
					0	-8.85	-0.00345	PASS
					10	-1.24	-0.00048	PASS
					20	-1.65	-0.00064	PASS
					30	-1.24	-0.00048	PASS
					40	-0.66	-0.00026	PASS
					50	-0.64	-0.00025	PASS
		15	LCH	VN	-30	1.23	0.00049	PASS
					-20	-2.25	-0.0009	PASS
					-10	-12.87	-0.00513	PASS
					0	-1.90	-0.00076	PASS
					10	2.27	0.00091	PASS
					20	-1.40	-0.00056	PASS
					30	0.99	0.00039	PASS
					40	3.28	0.00131	PASS
					50	0.47	0.00019	PASS
			MCH	VN	-30	1.50	0.00059	PASS
					-20	0.72	0.00028	PASS
					-10	-0.40	-0.00016	PASS
					0	-10.83	-0.00427	PASS
					10	-1.09	-0.00043	PASS
					20	-10.30	-0.00406	PASS
					30	0.00	0	PASS
					40	-11.10	-0.00438	PASS
					50	-1.44	-0.00057	PASS
			HCH	VN	-30	-4.65	-0.00181	PASS
					-20	-2.80	-0.00109	PASS
					-10	0.46	0.00018	PASS
					0	-8.93	-0.00348	PASS
					10	-13.80	-0.00539	PASS
					20	-0.79	-0.00031	PASS
					30	-7.65	-0.00299	PASS
					40	-0.84	-0.00033	PASS
					50	-15.39	-0.00601	PASS
		20	LCH	VN	-30	1.77	0.00071	PASS
					-20	-1.69	-0.00067	PASS
					-10	-1.09	-0.00043	PASS
					0	-1.53	-0.00061	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	0.66	0.00026	PASS
					20	-1.86	-0.00074	PASS
					30	-1.73	-0.00069	PASS
					40	0.83	0.00033	PASS
					50	-0.53	-0.00021	PASS
			MCH	VN	-30	-2.32	-0.00092	PASS
					-20	-1.16	-0.00046	PASS
					-10	0.63	0.00025	PASS
					0	-2.13	-0.00084	PASS
					10	1.13	0.00045	PASS
					20	0.87	0.00034	PASS
					30	1.14	0.00045	PASS
					40	-1.80	-0.00071	PASS
					50	-1.34	-0.00053	PASS
			HCH	VN	-30	2.72	0.00106	PASS
					-20	0.93	0.00036	PASS
					-10	0.00	0	PASS
					0	0.54	0.00021	PASS
					10	2.37	0.00093	PASS
					20	-0.44	-0.00017	PASS
					30	0.90	0.00035	PASS
					40	0.46	0.00018	PASS
					50	-2.63	-0.00103	PASS

END