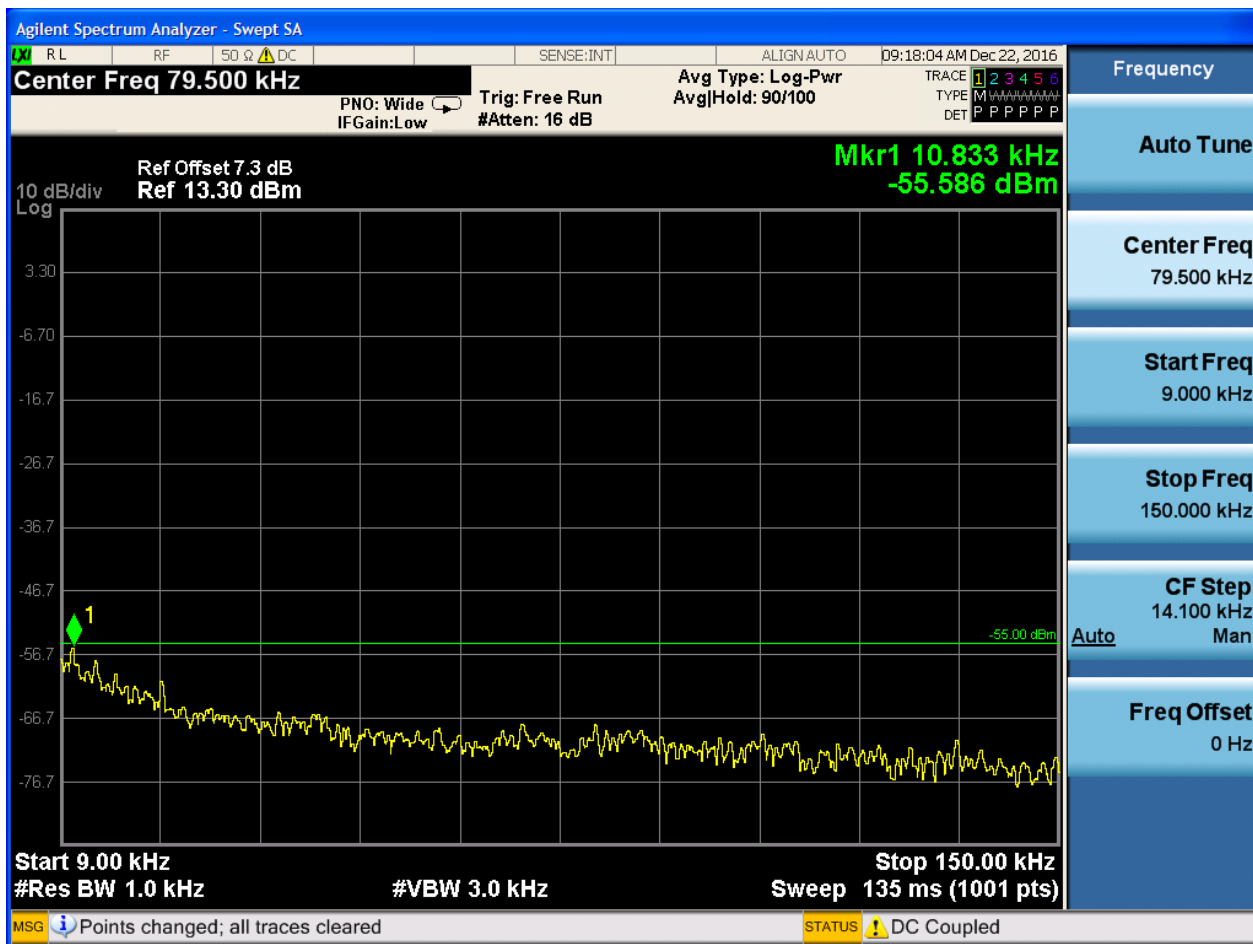




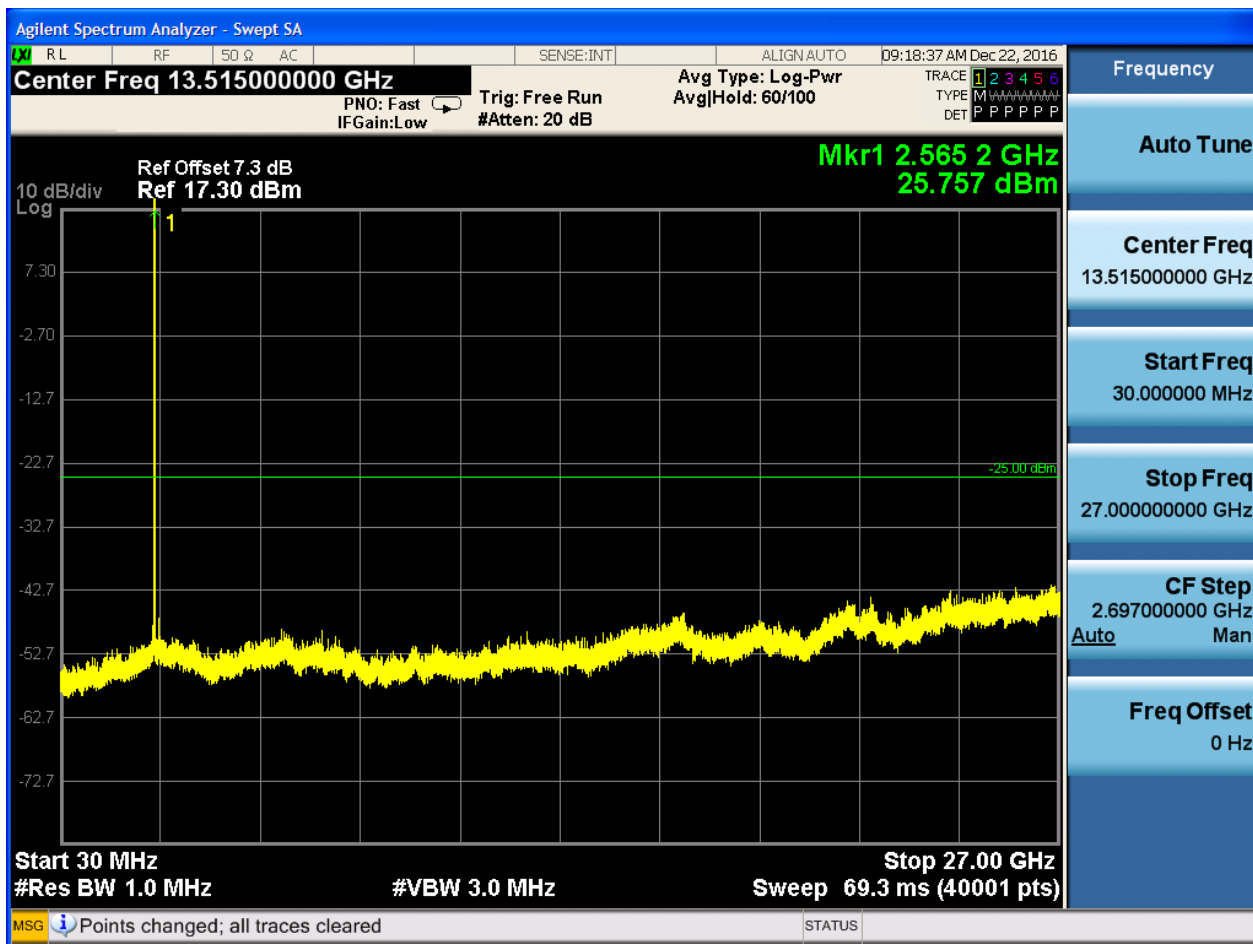


6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0



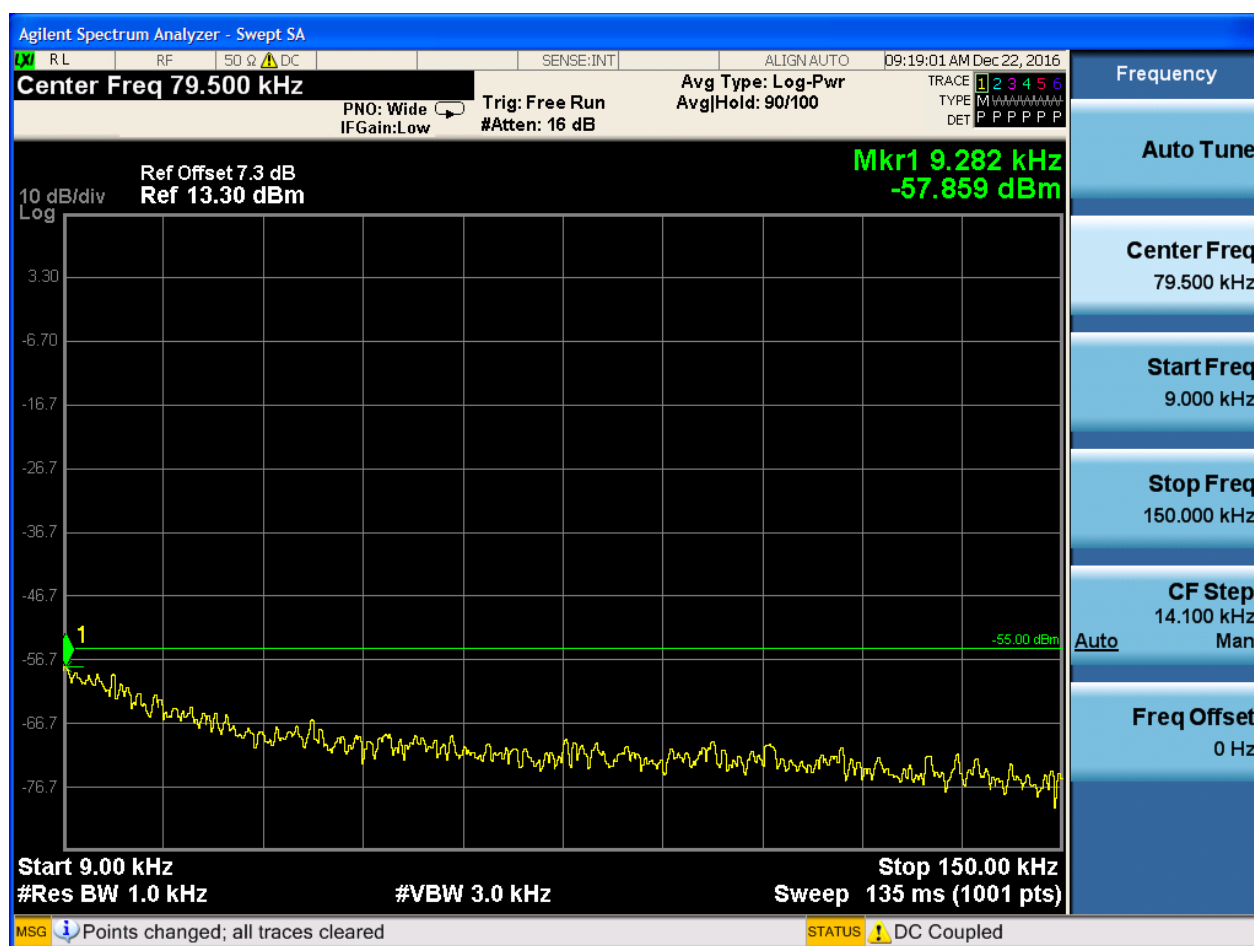


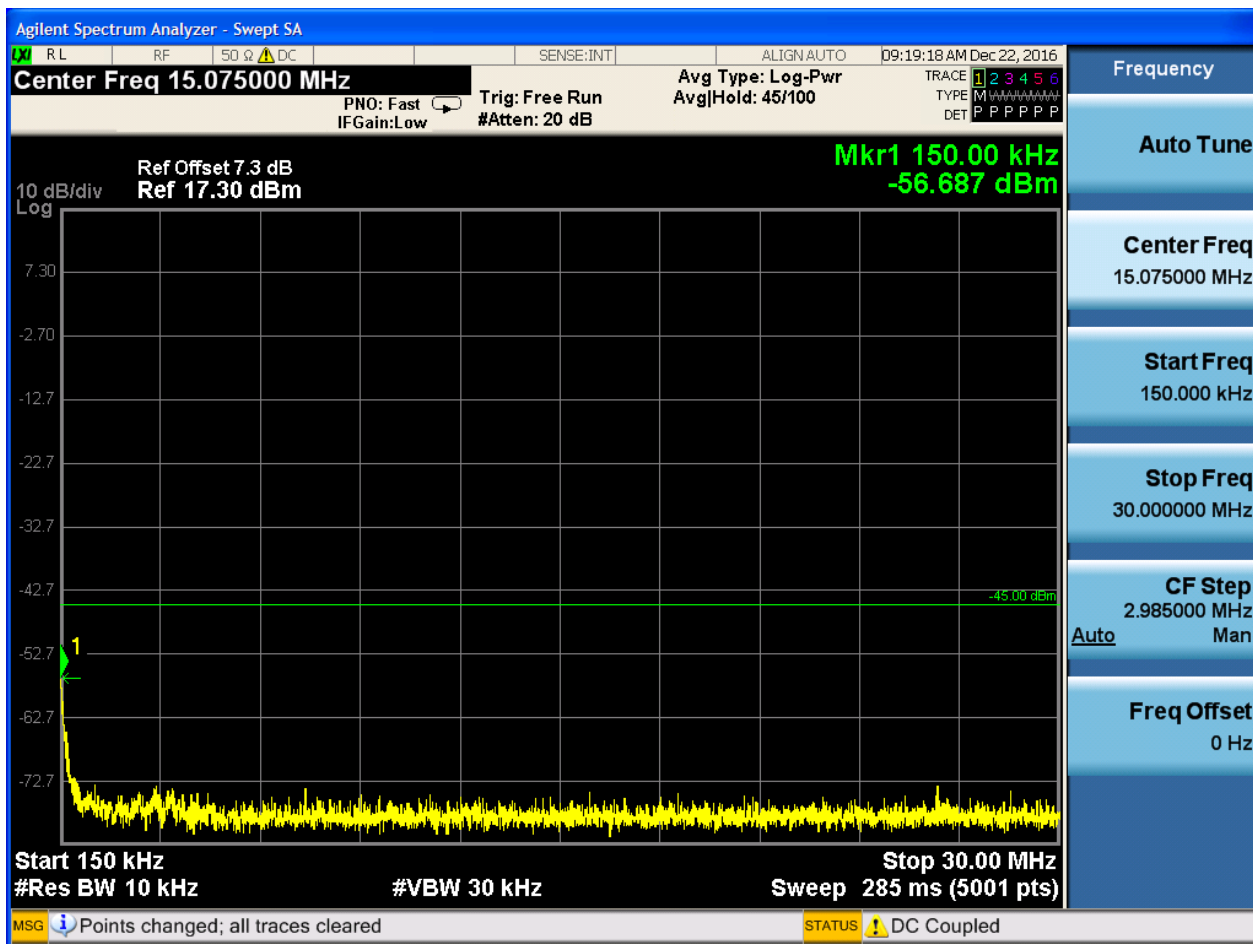


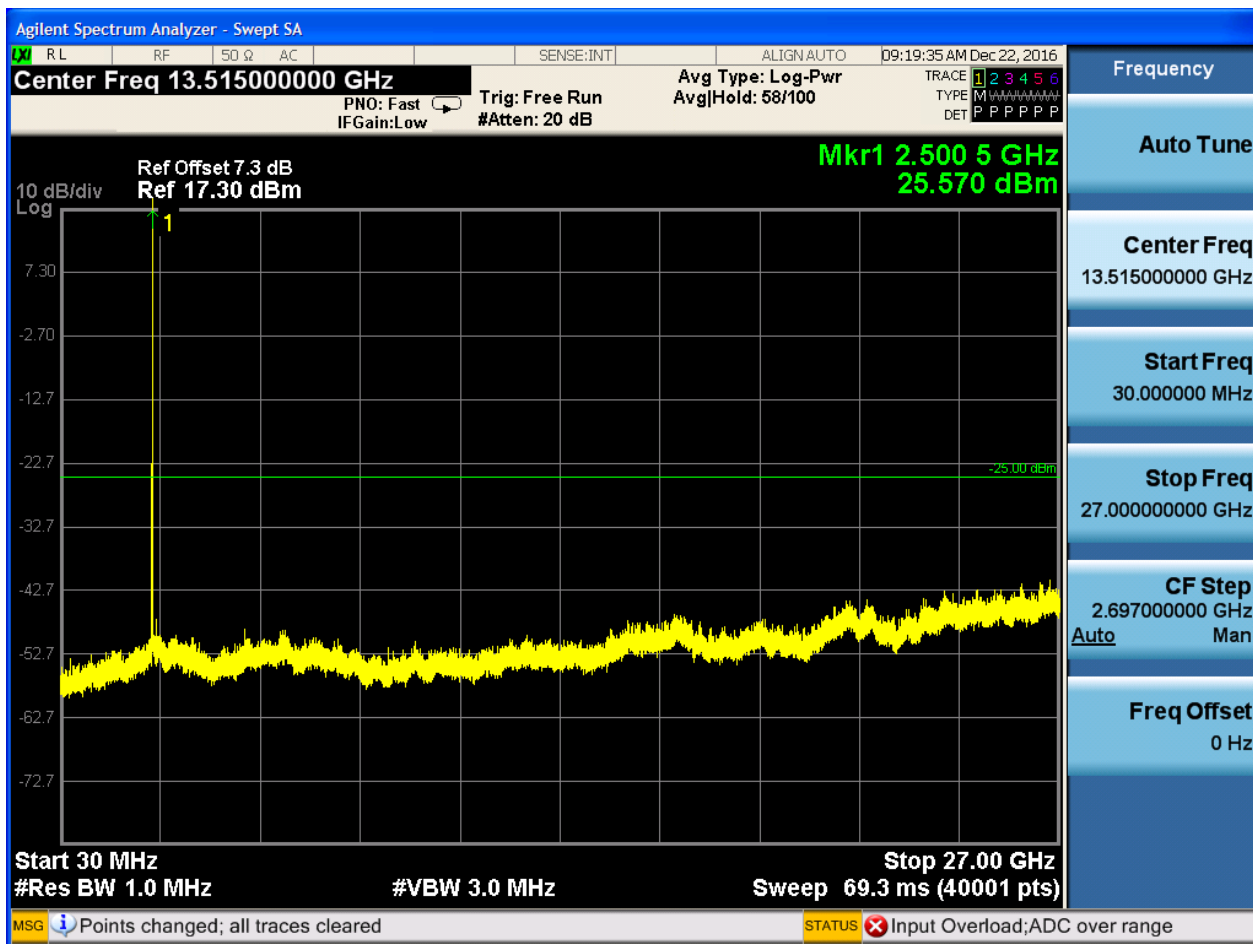
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



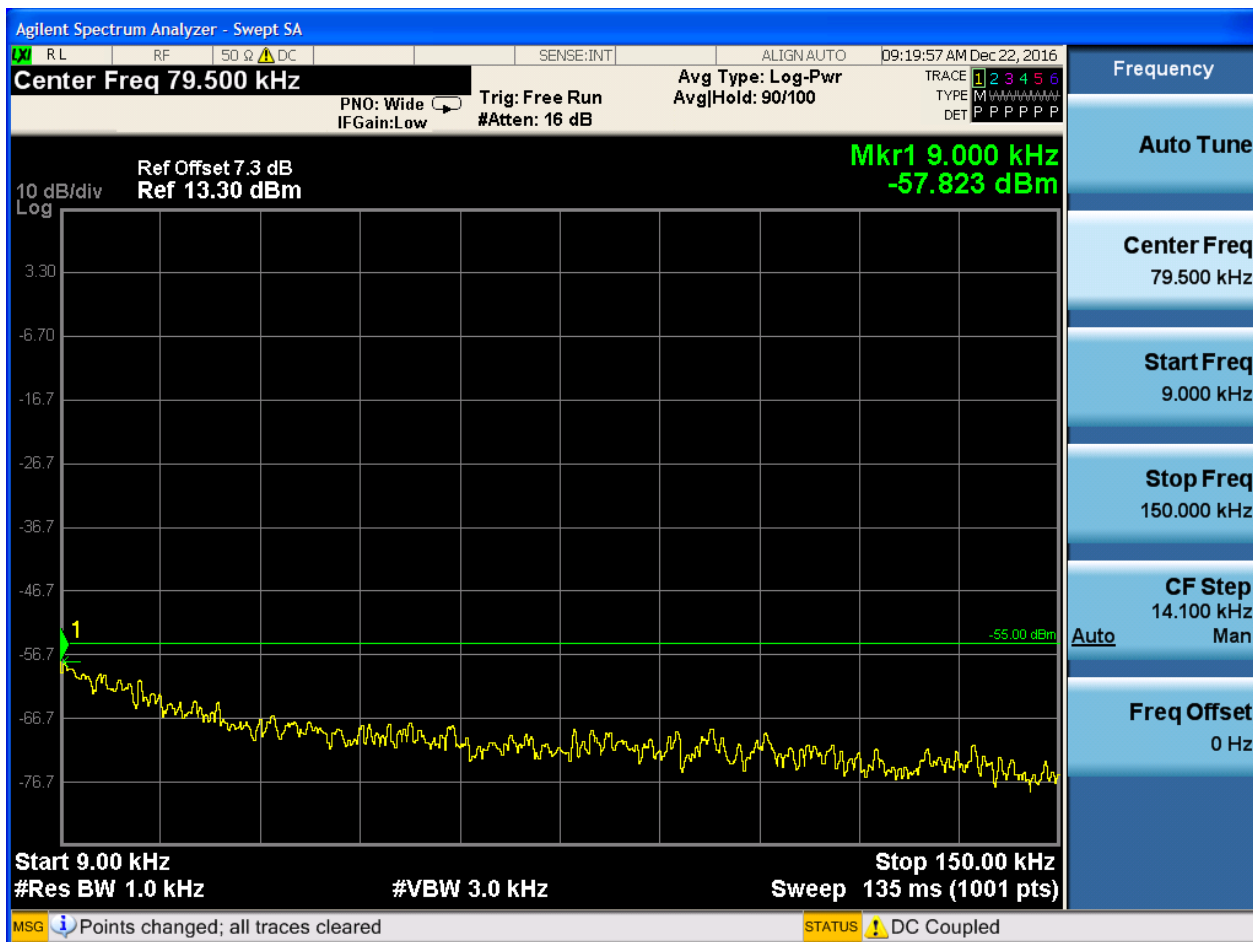






6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



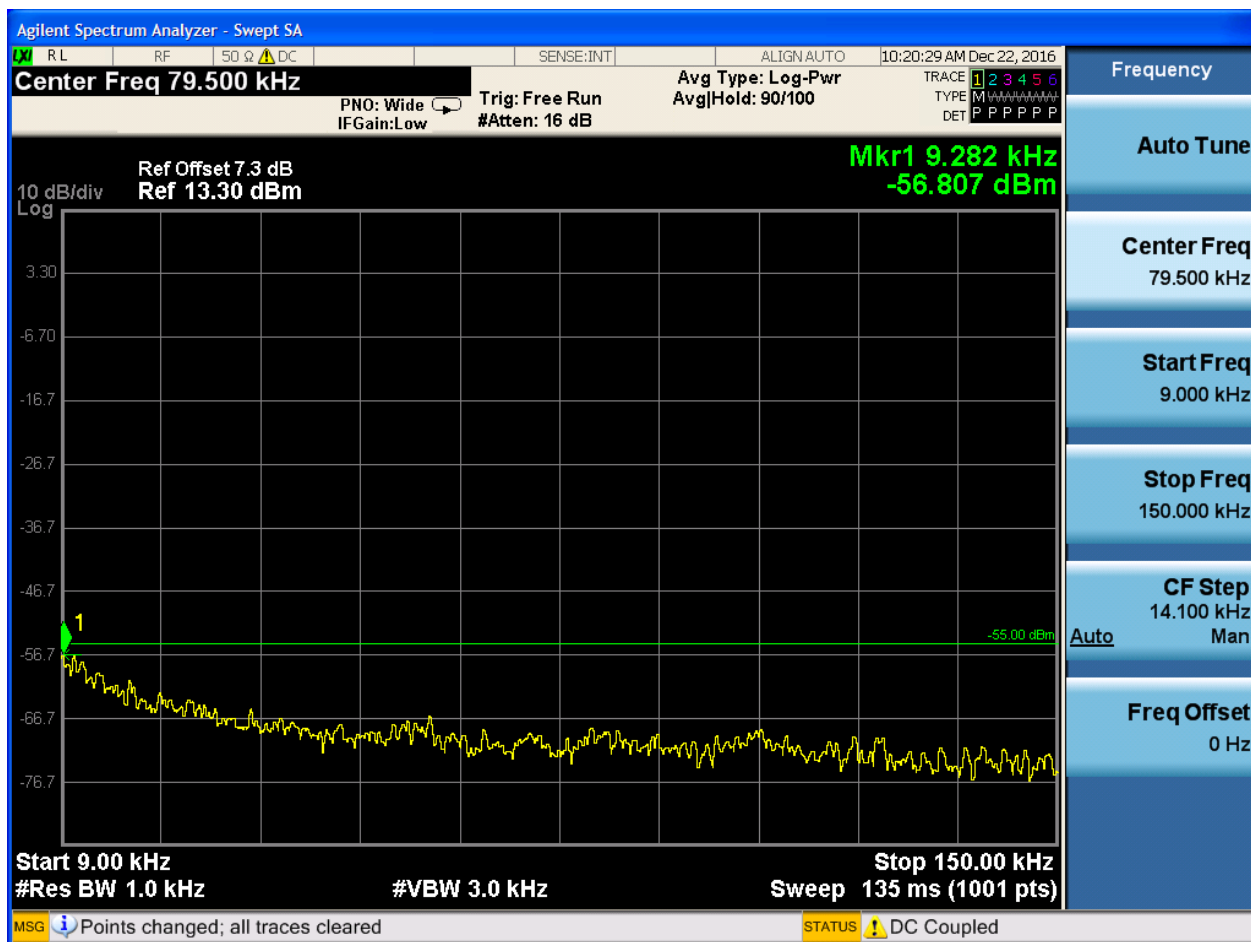






6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0

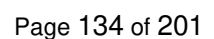




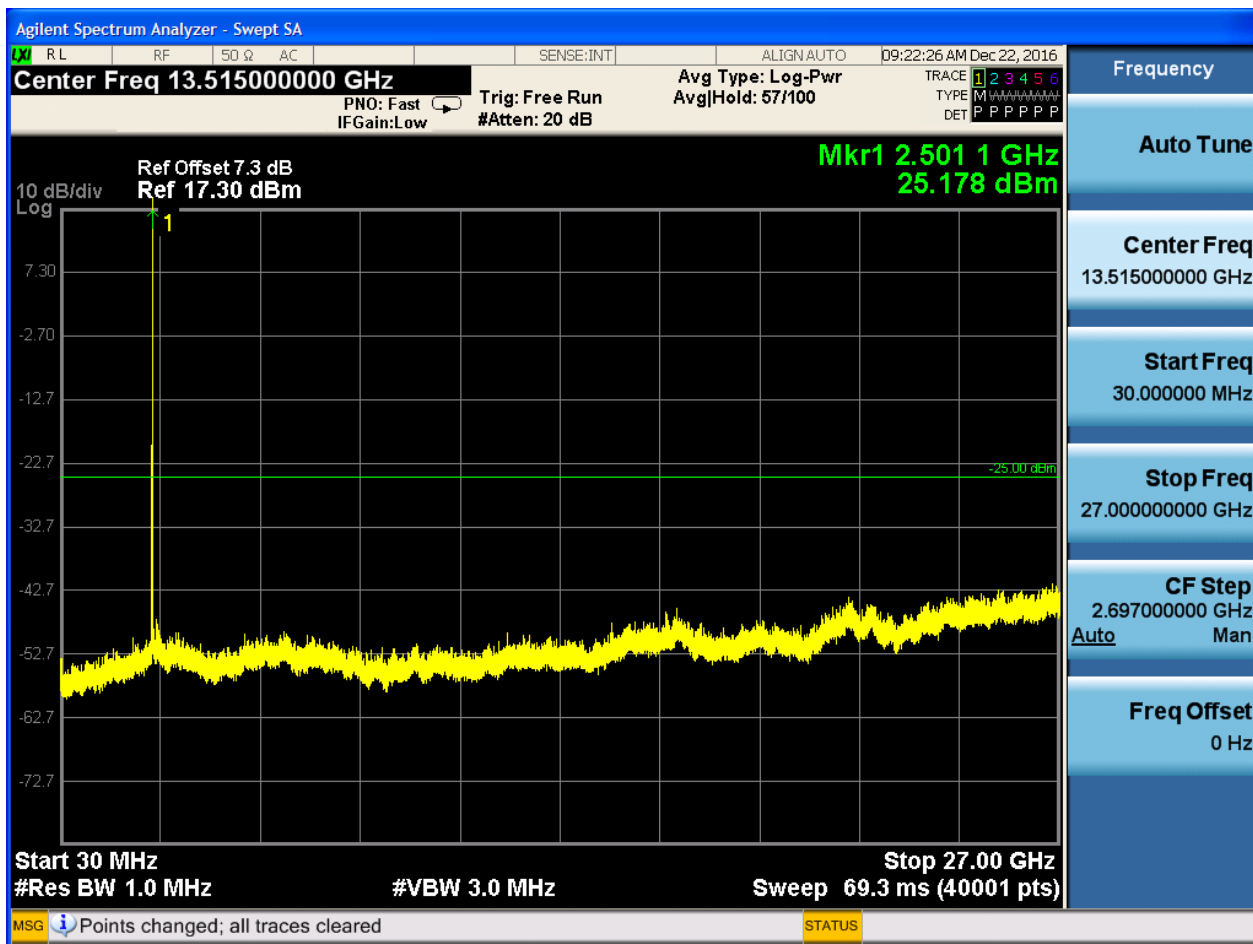




6.1.1.1.3.1.1 Test RB = RB1#0



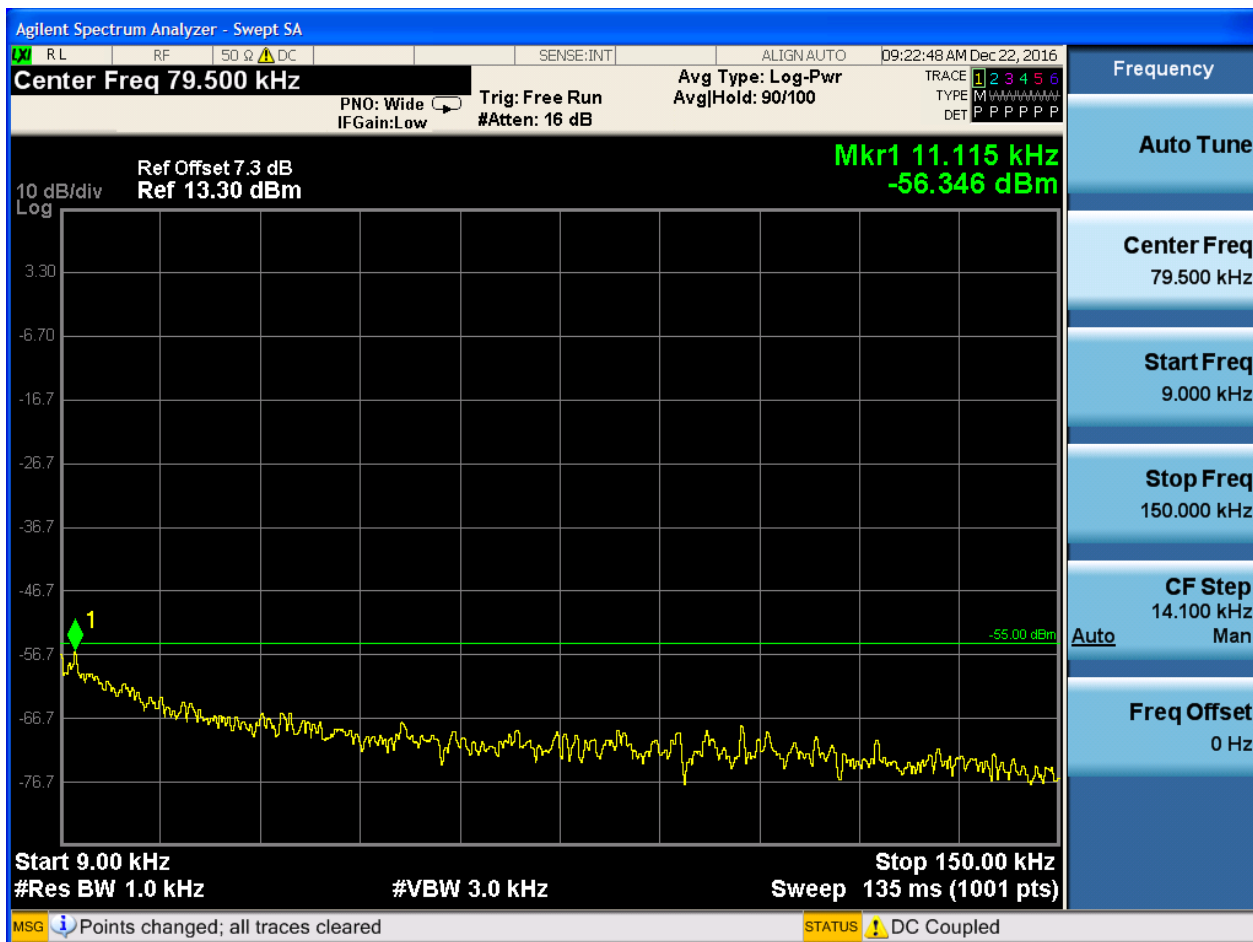






6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



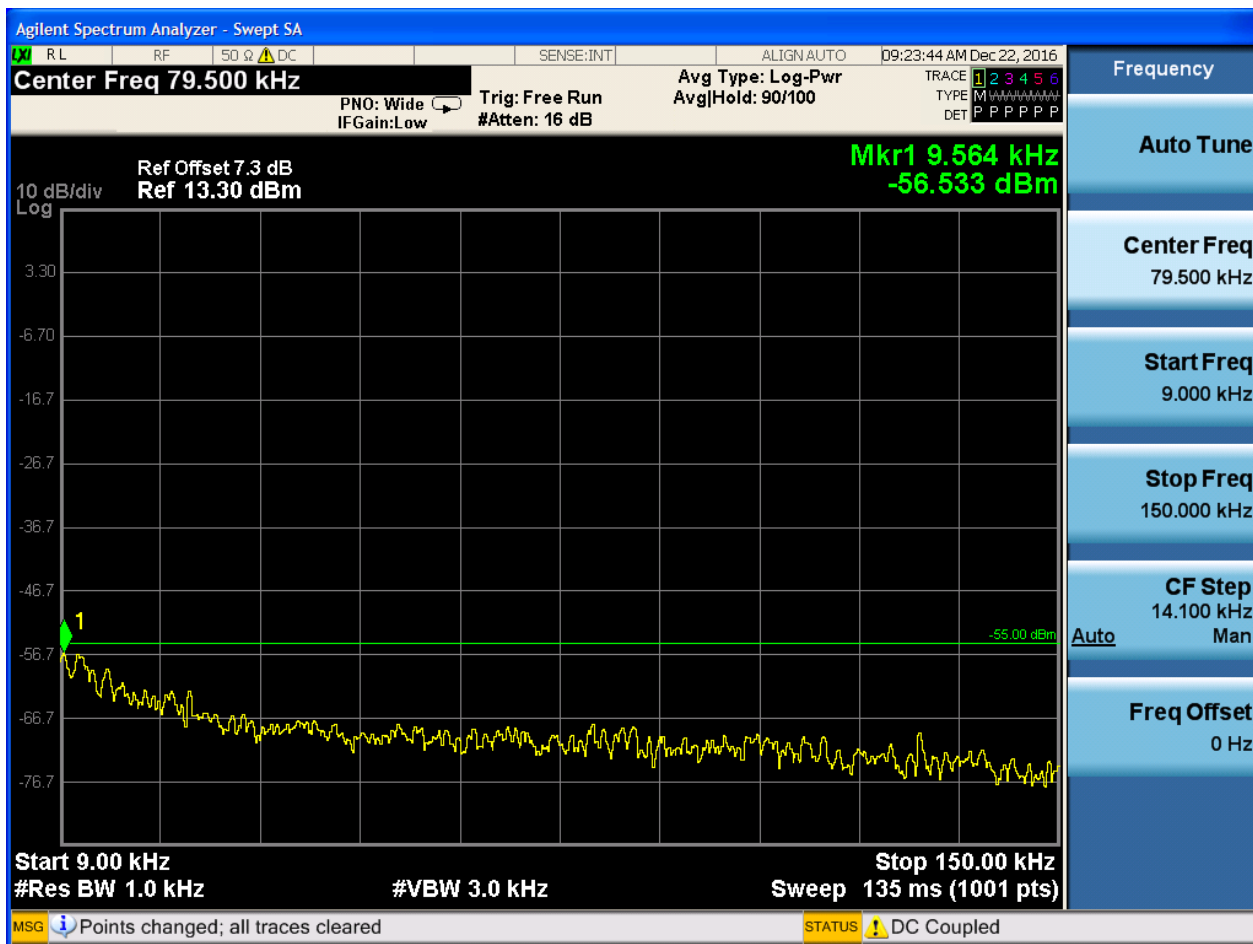


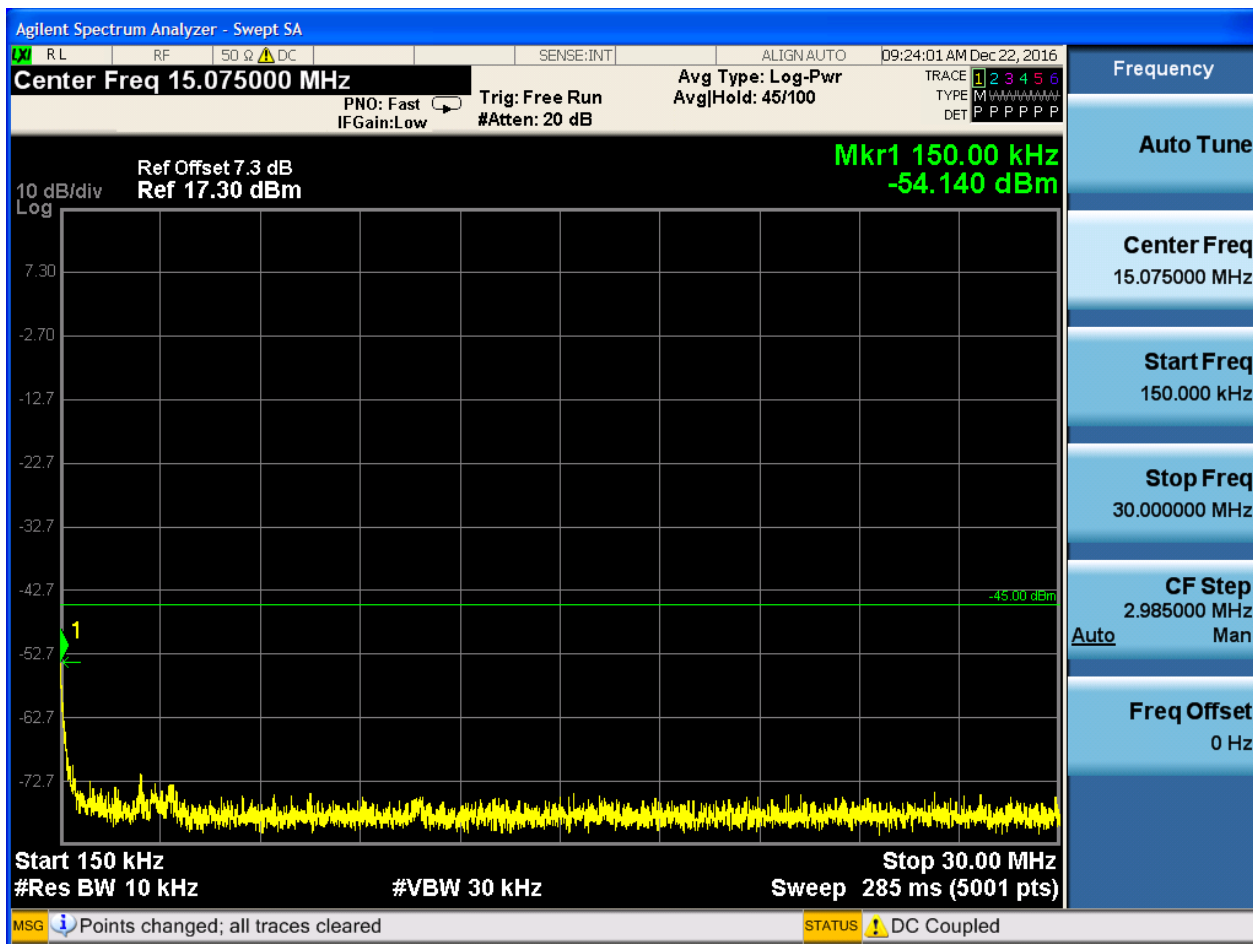


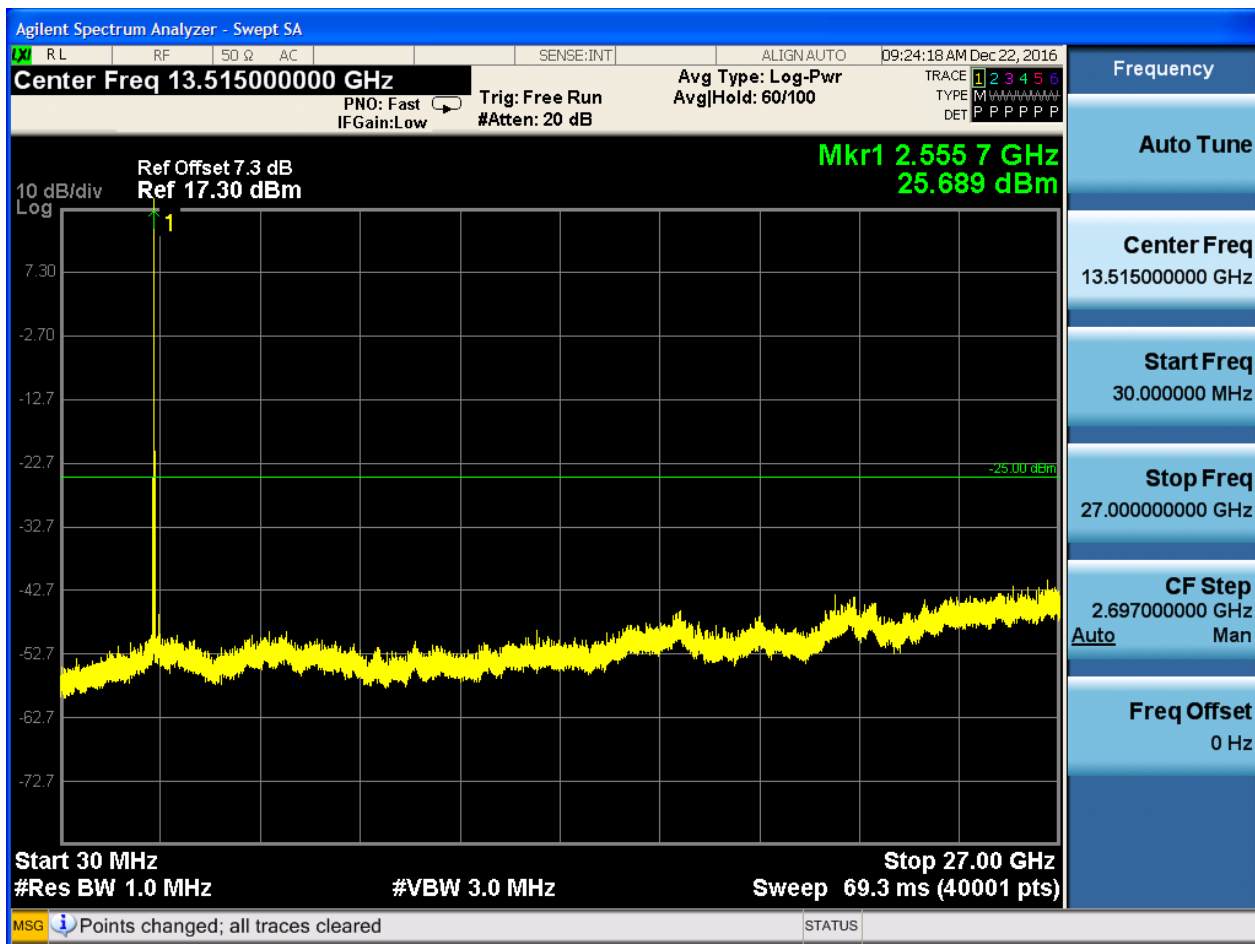


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



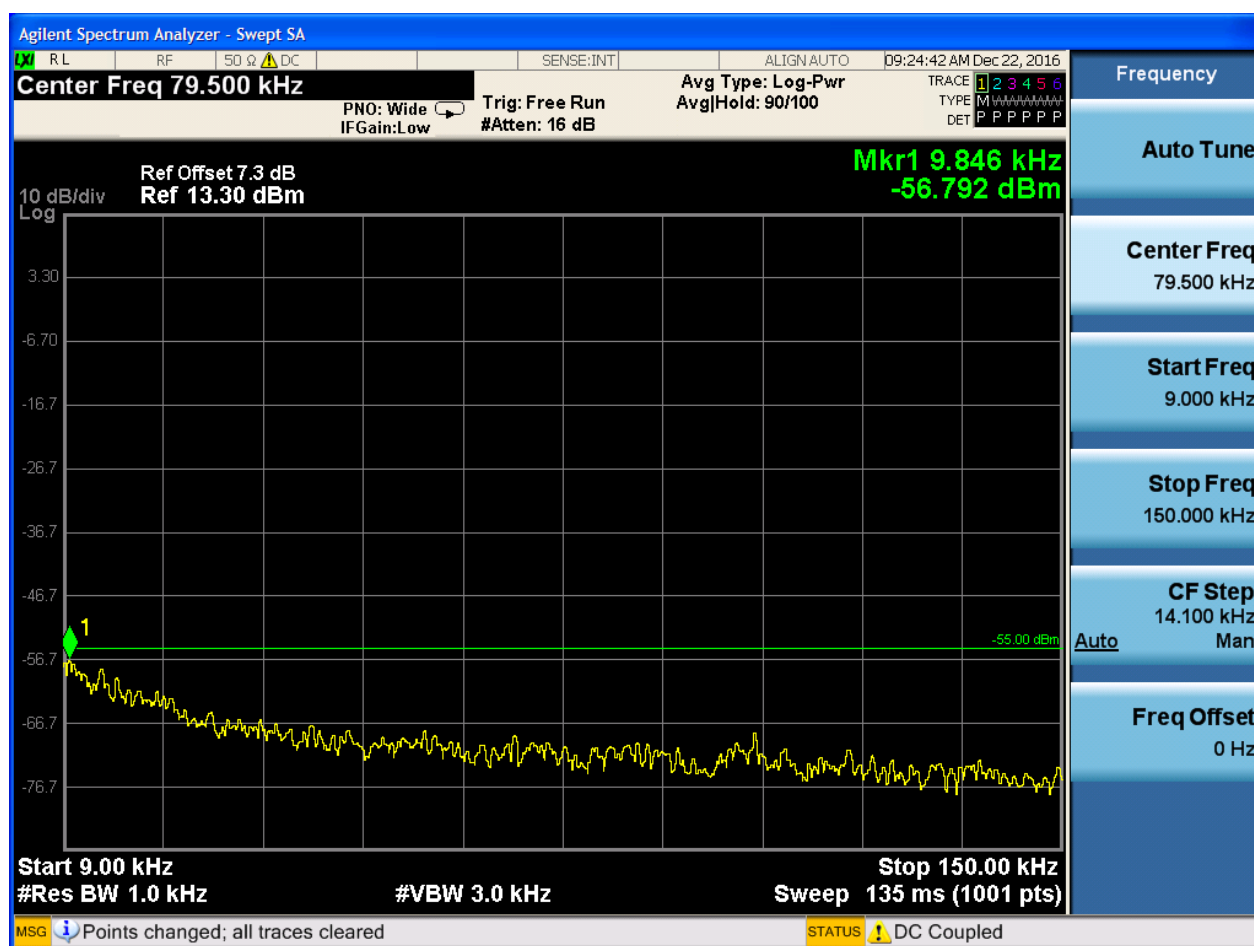




6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



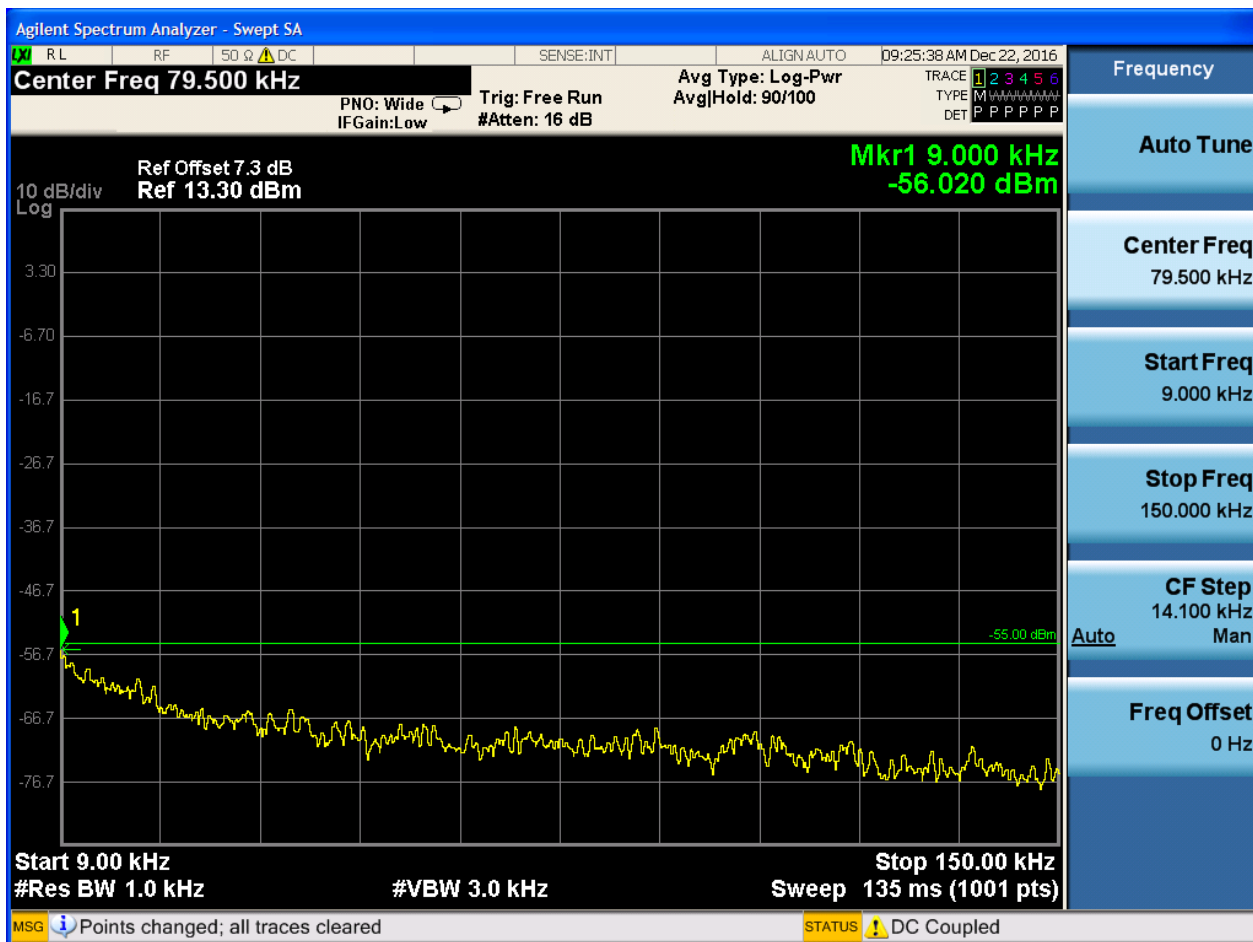




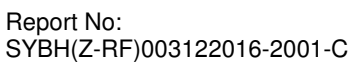


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



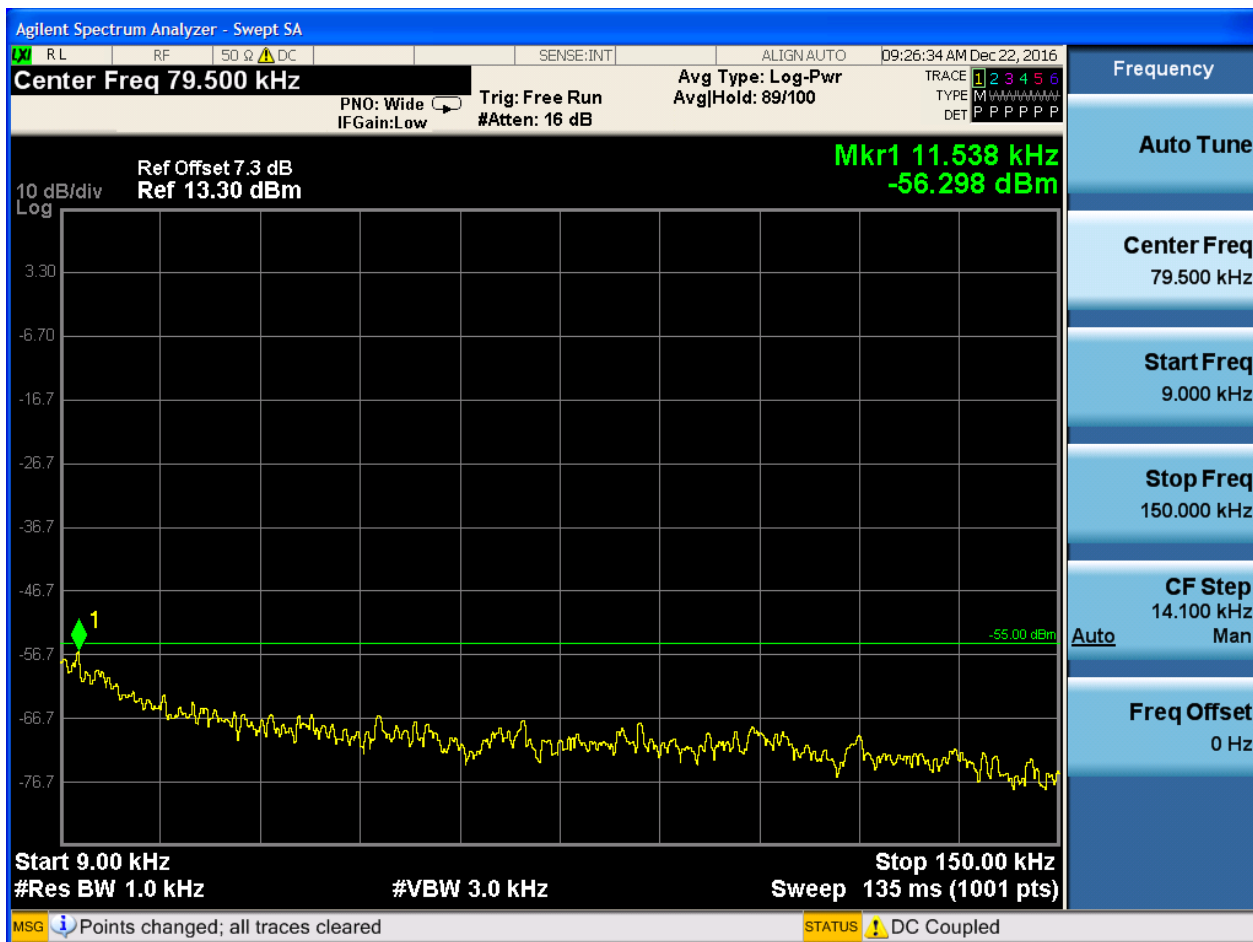






6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







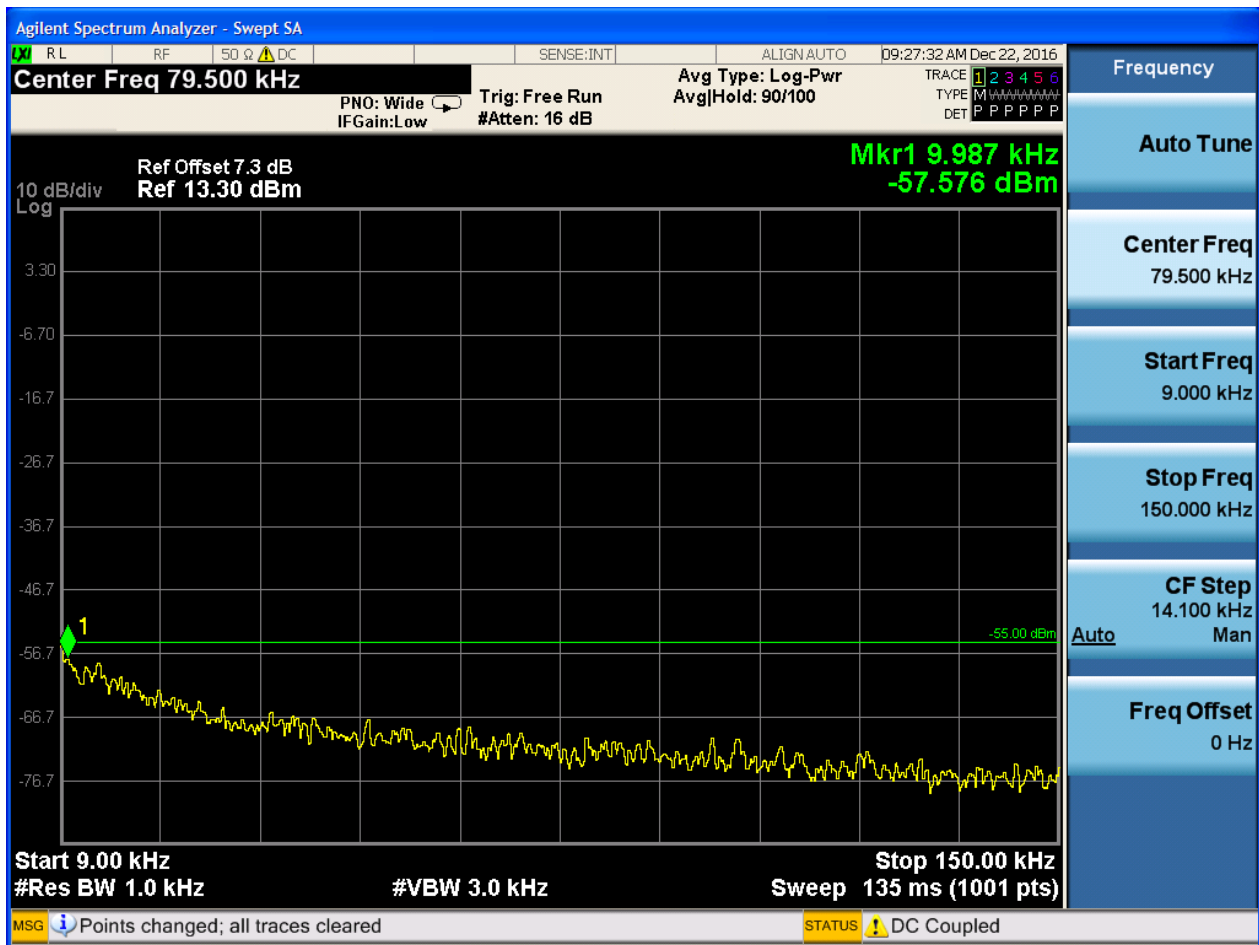


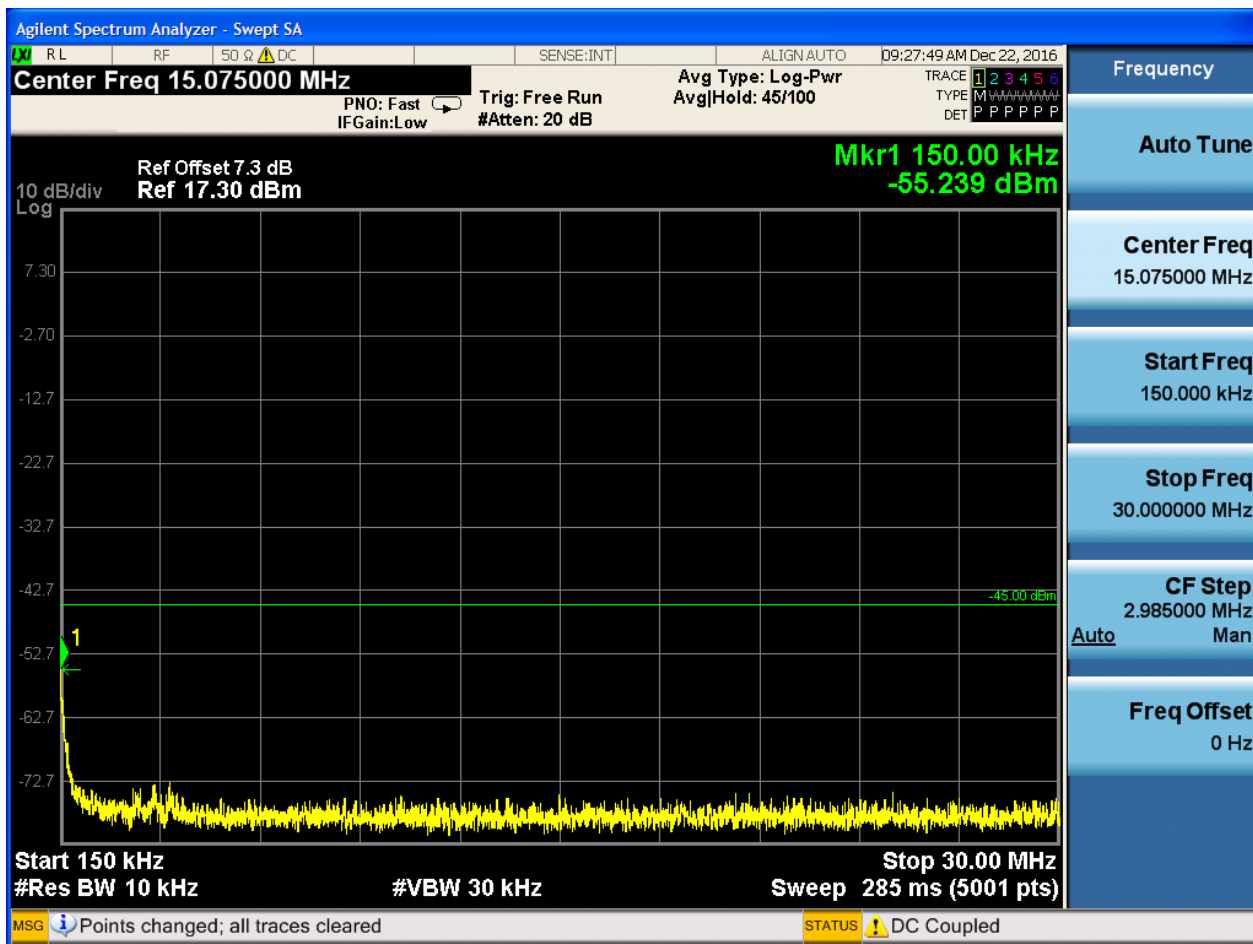
6.1.1.2 Test Mode = LTE/TM2

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



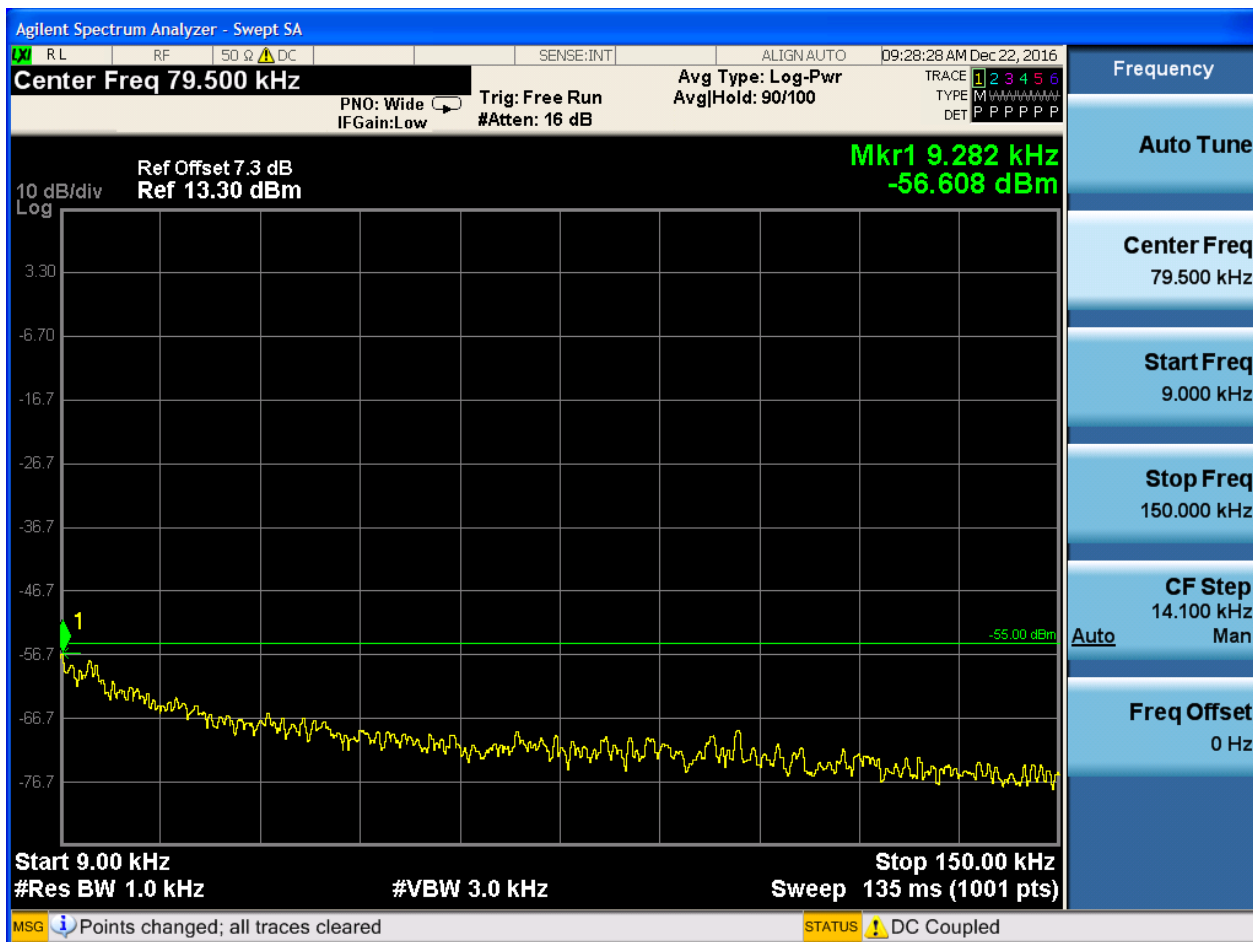


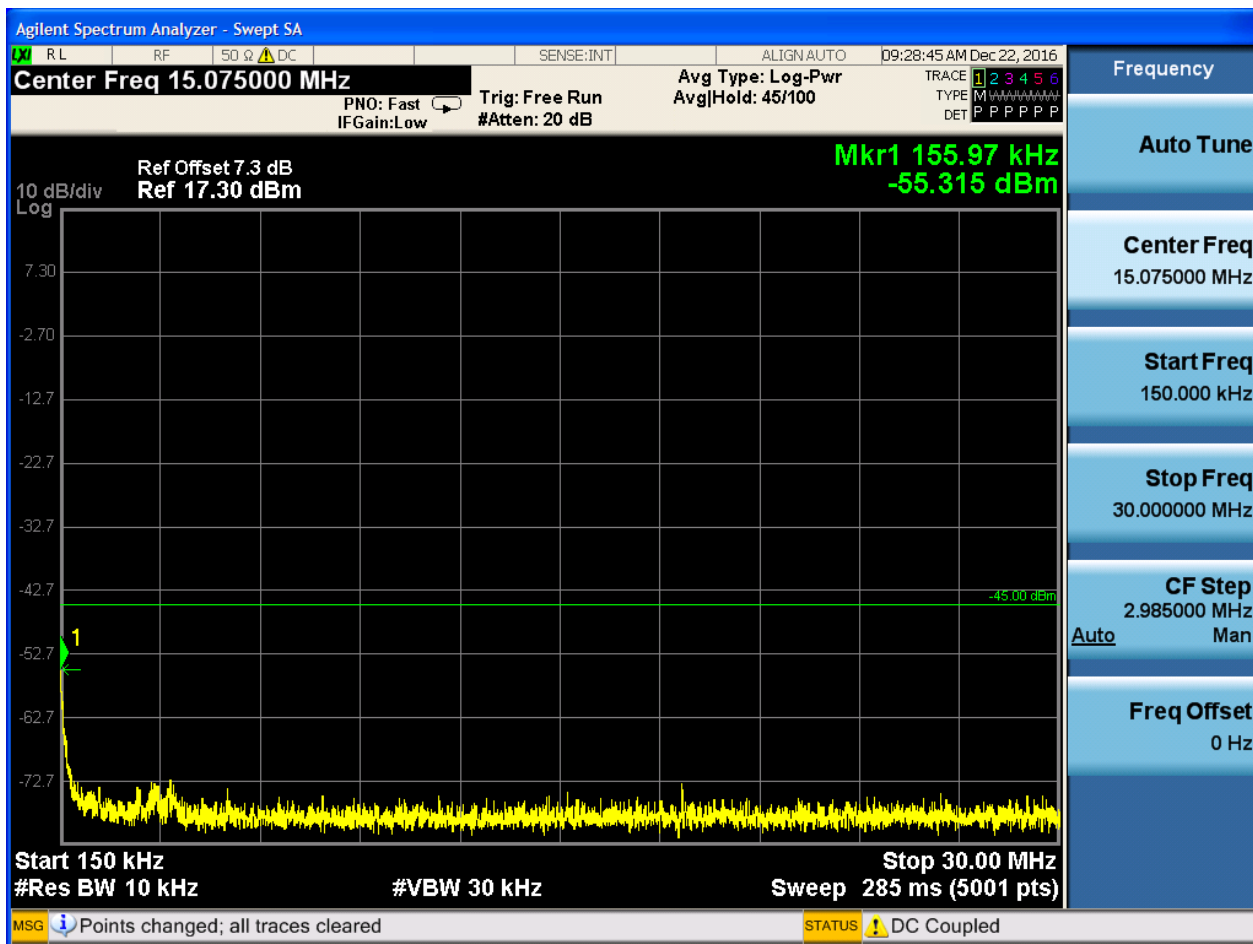


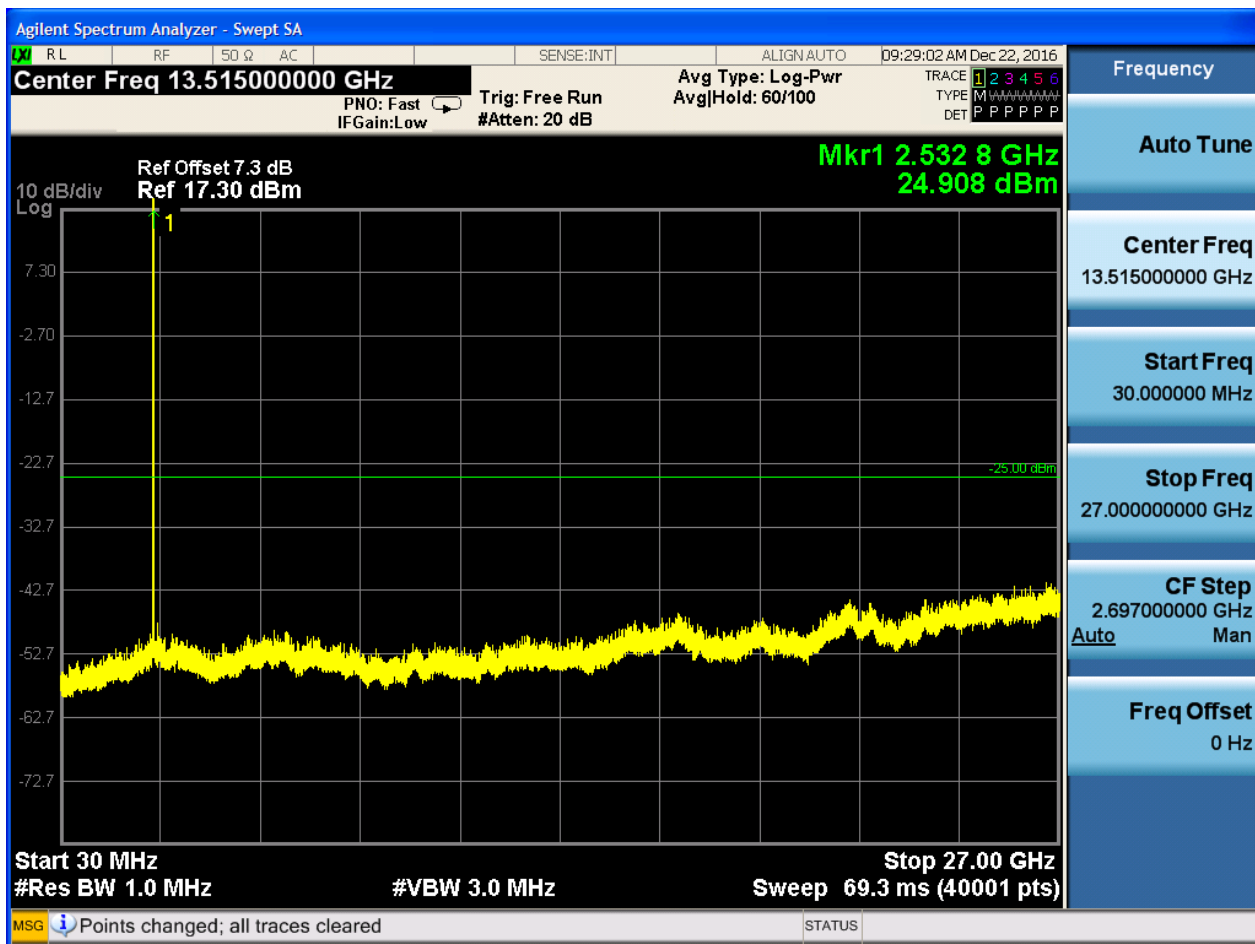


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



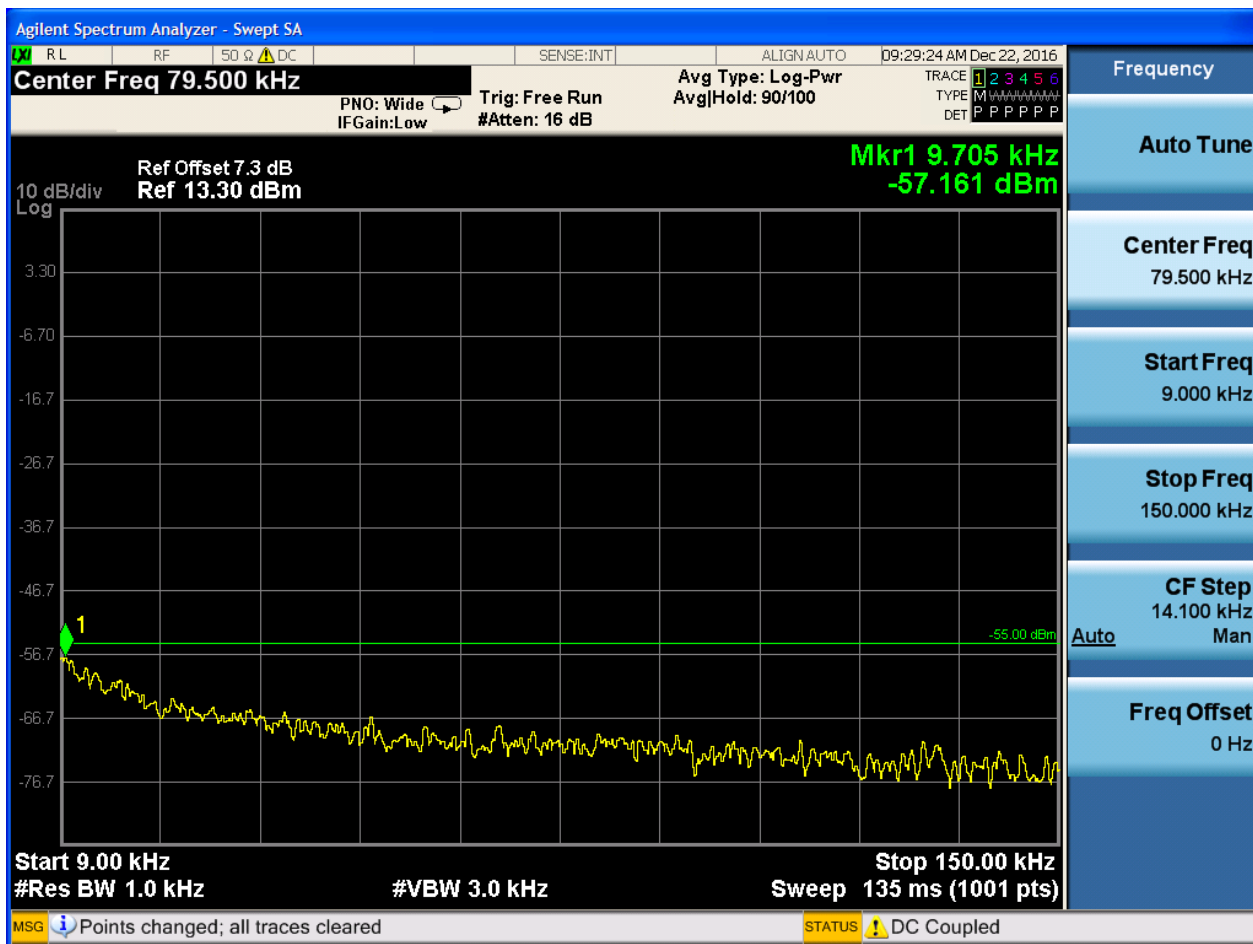




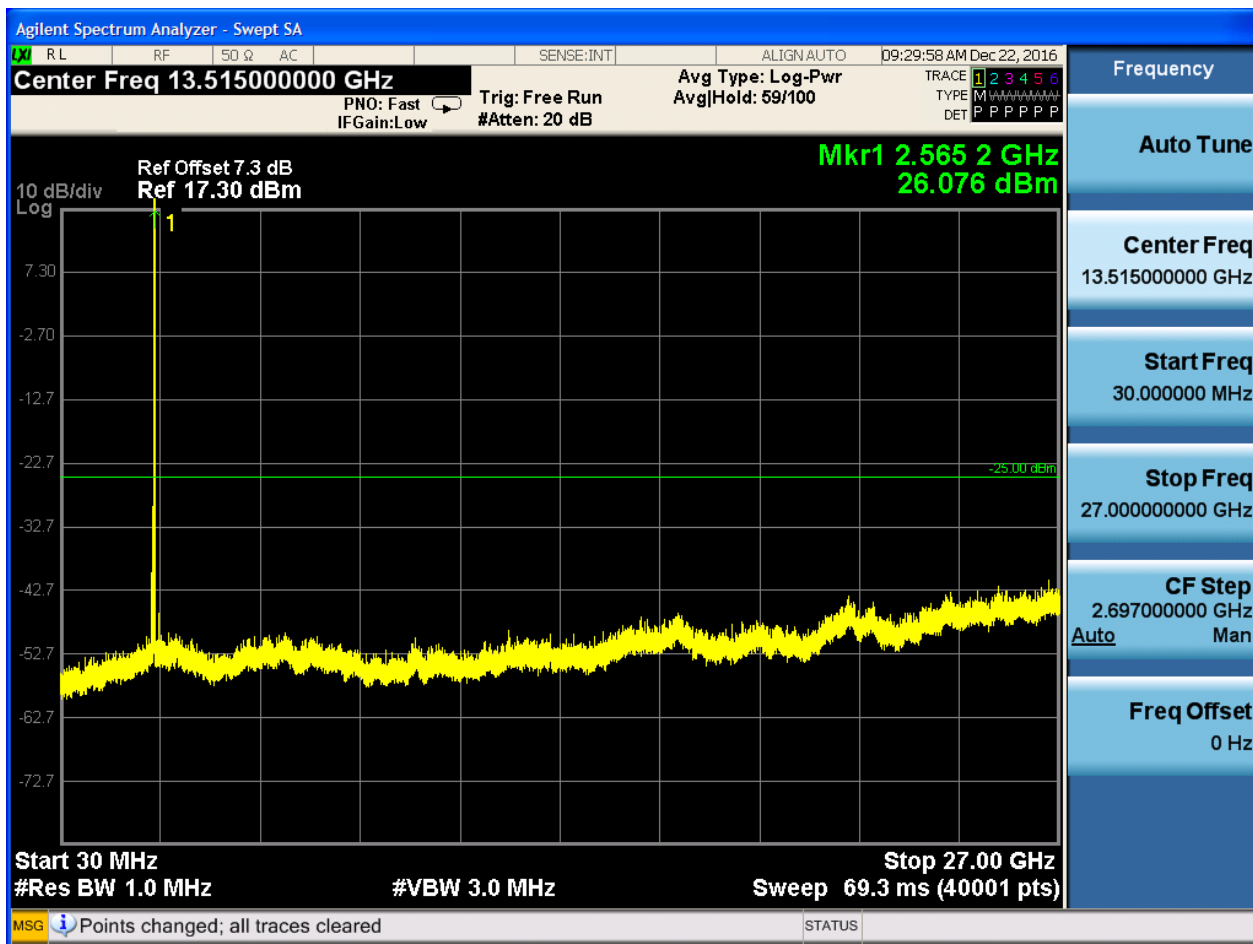


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



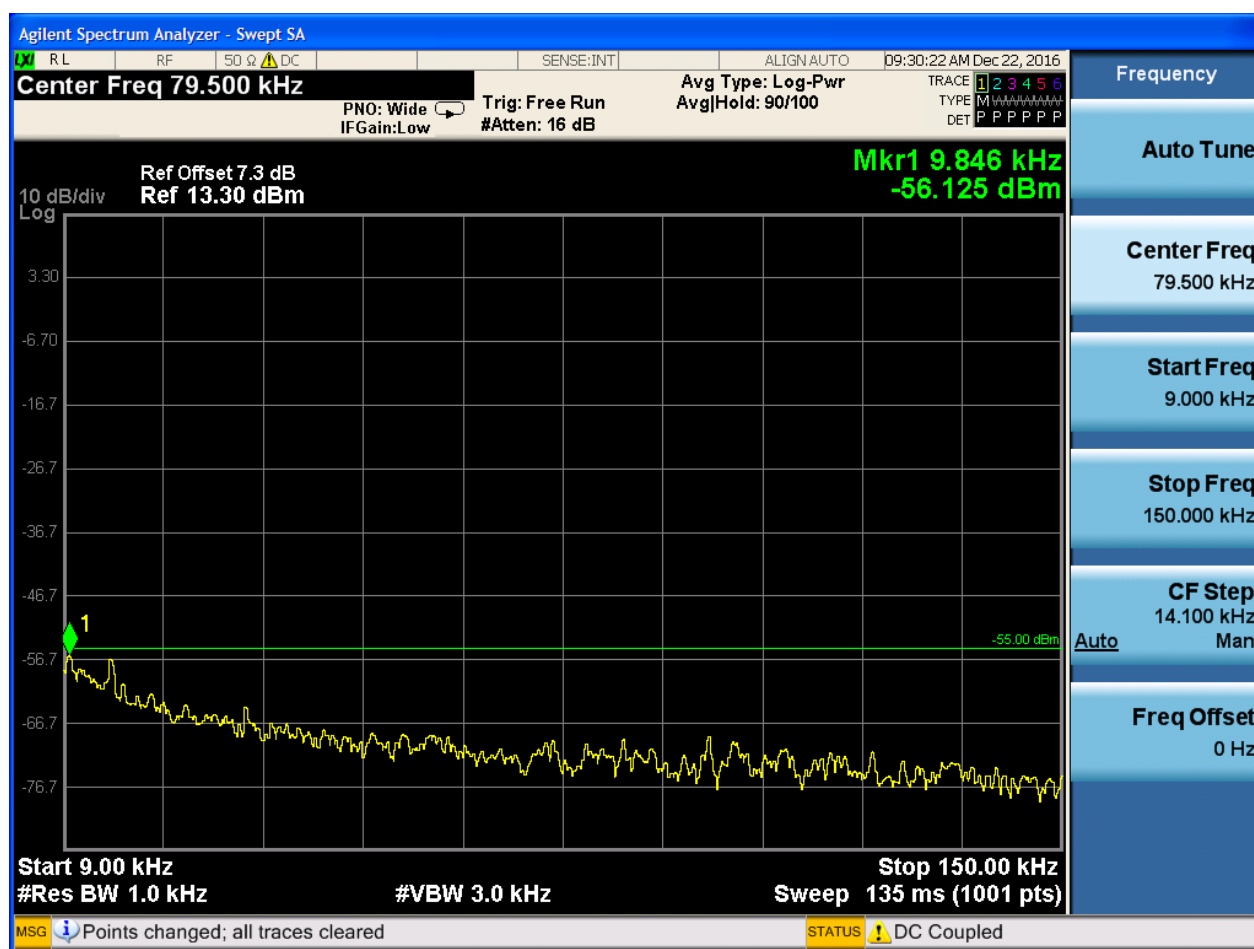




6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



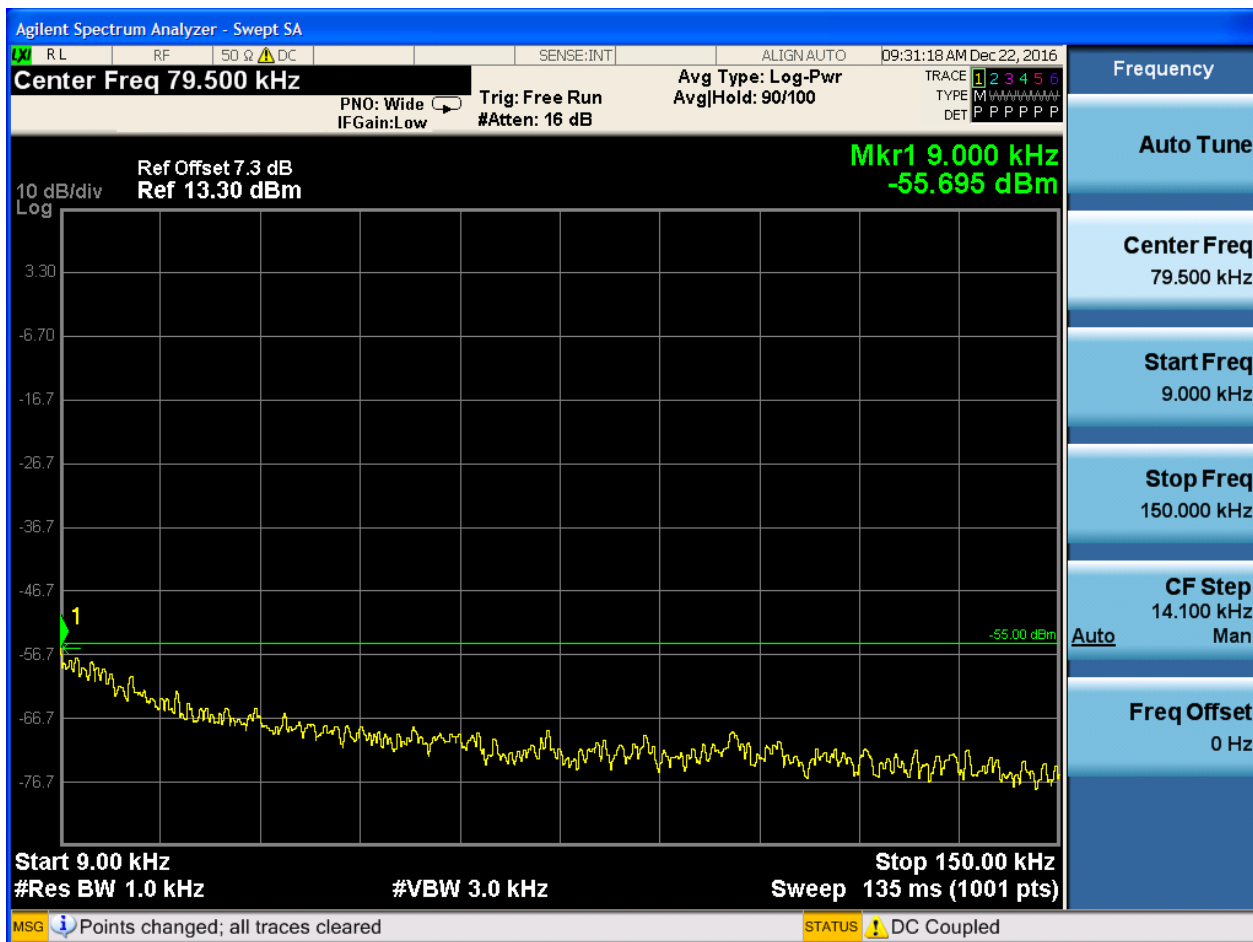






6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



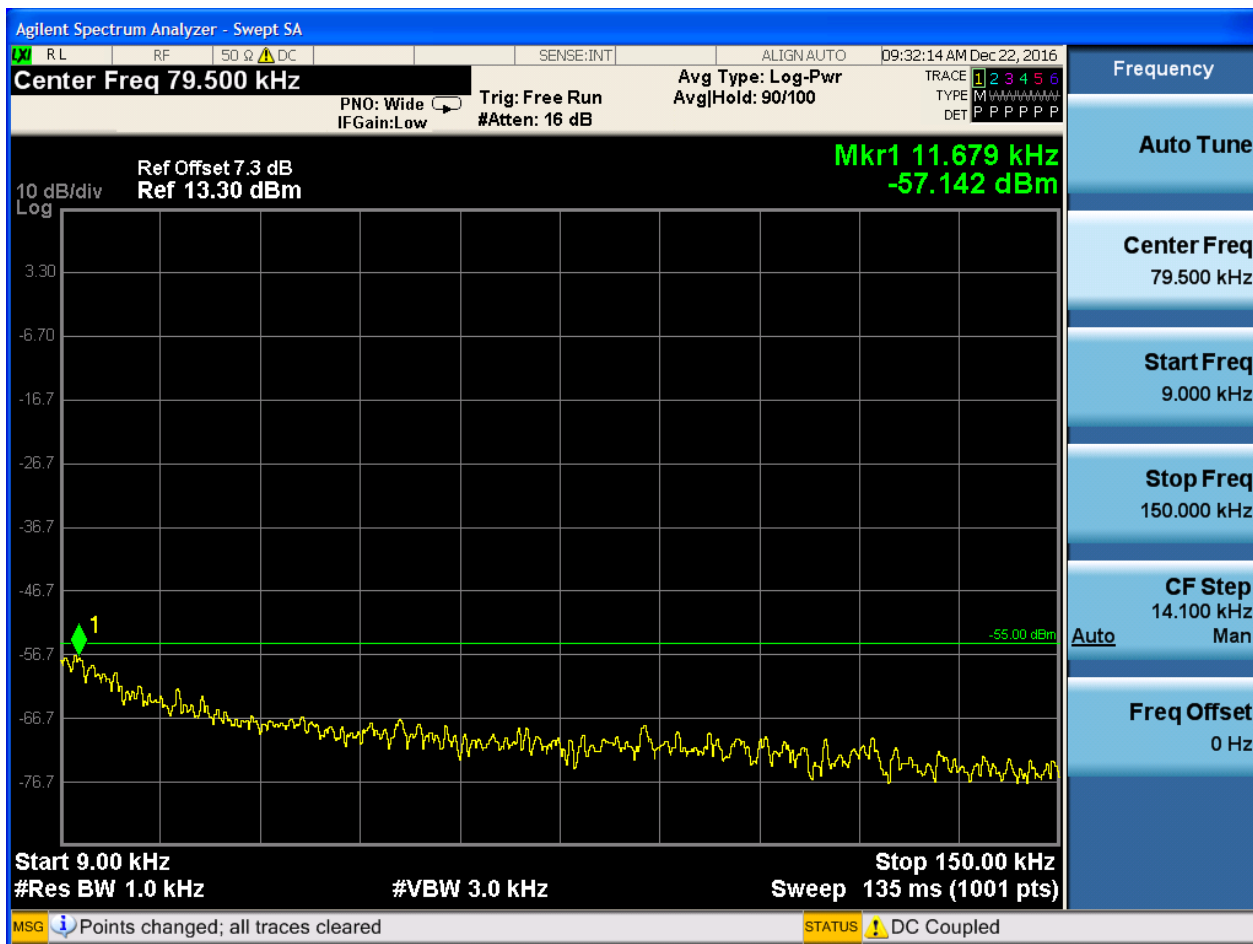






6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



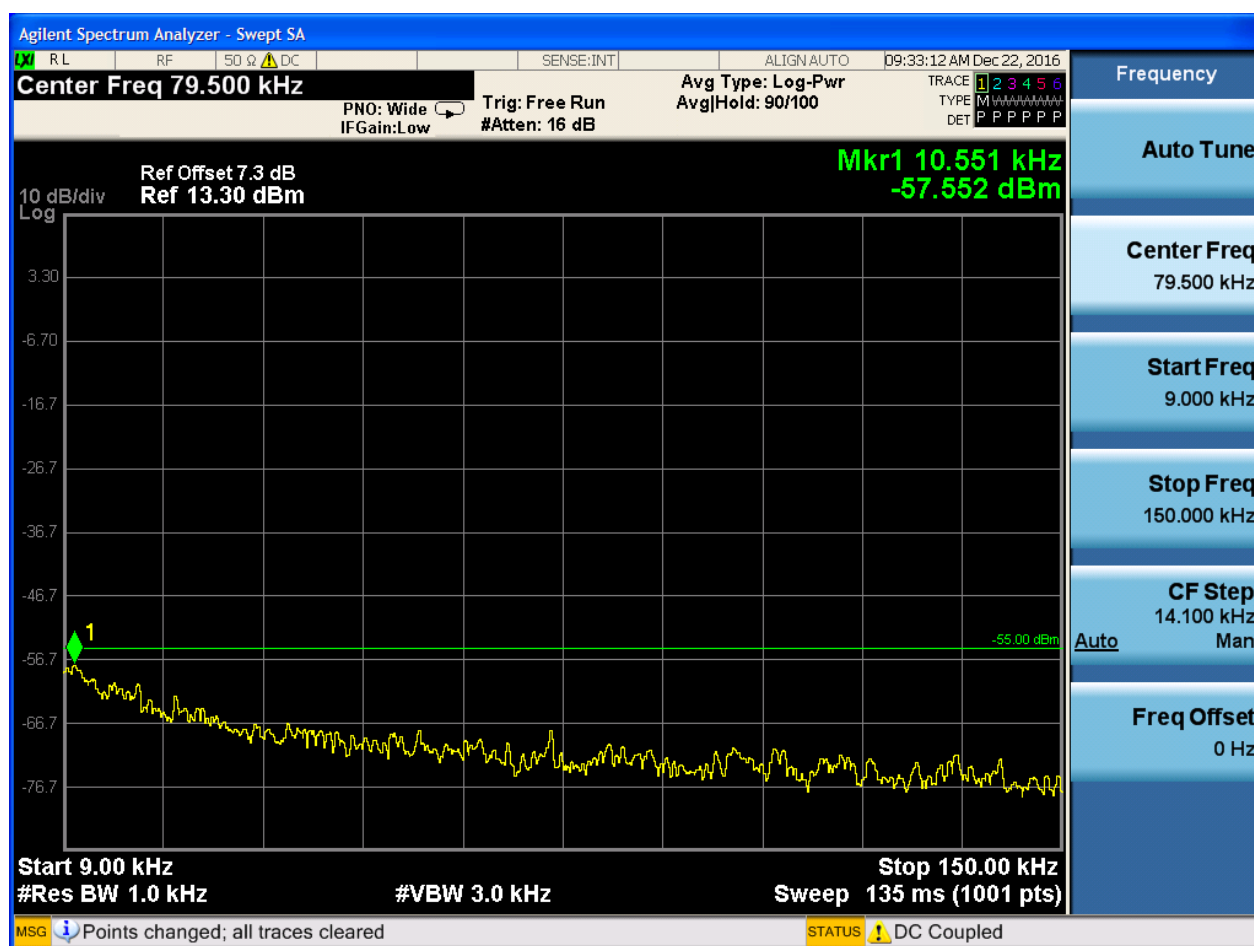


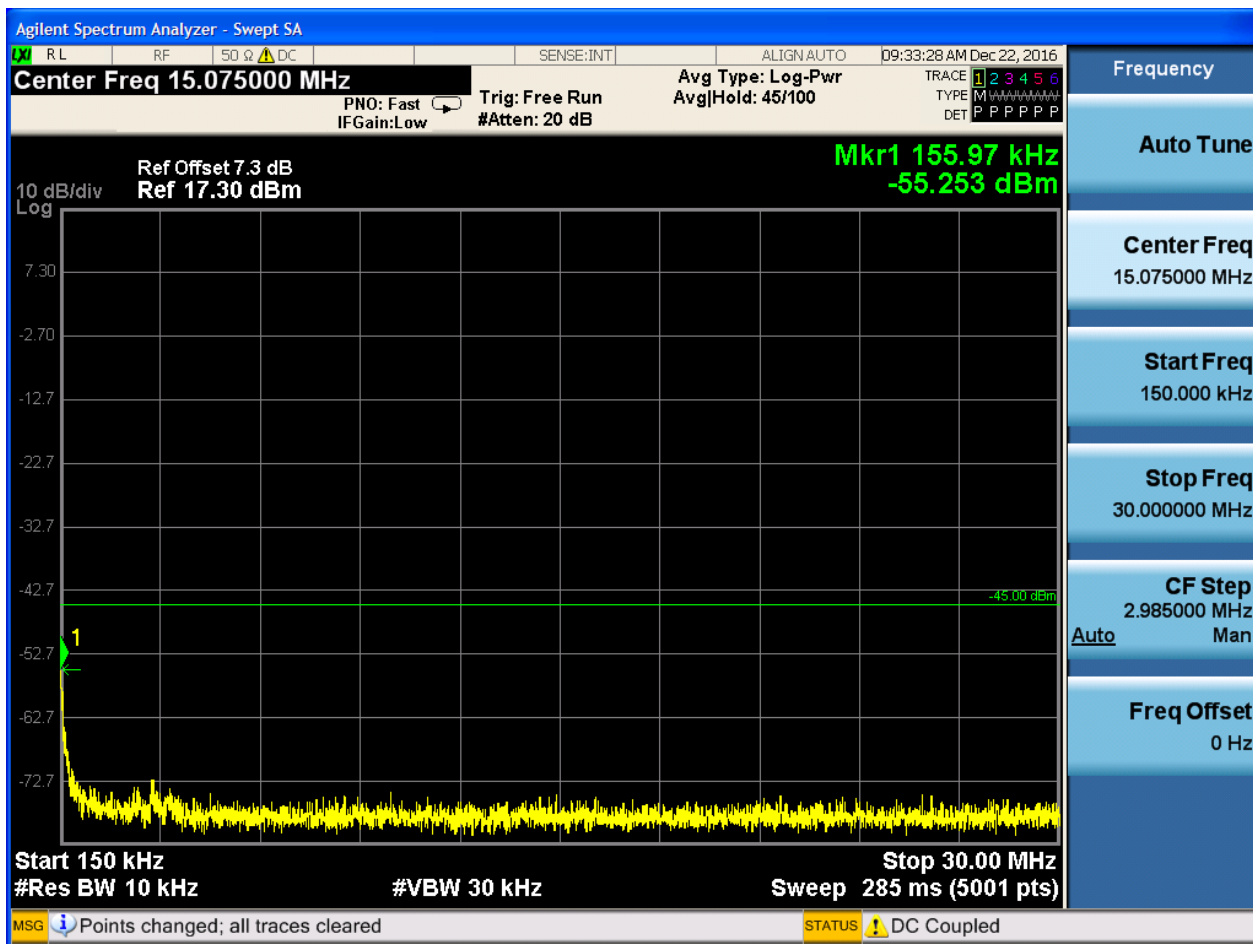


6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



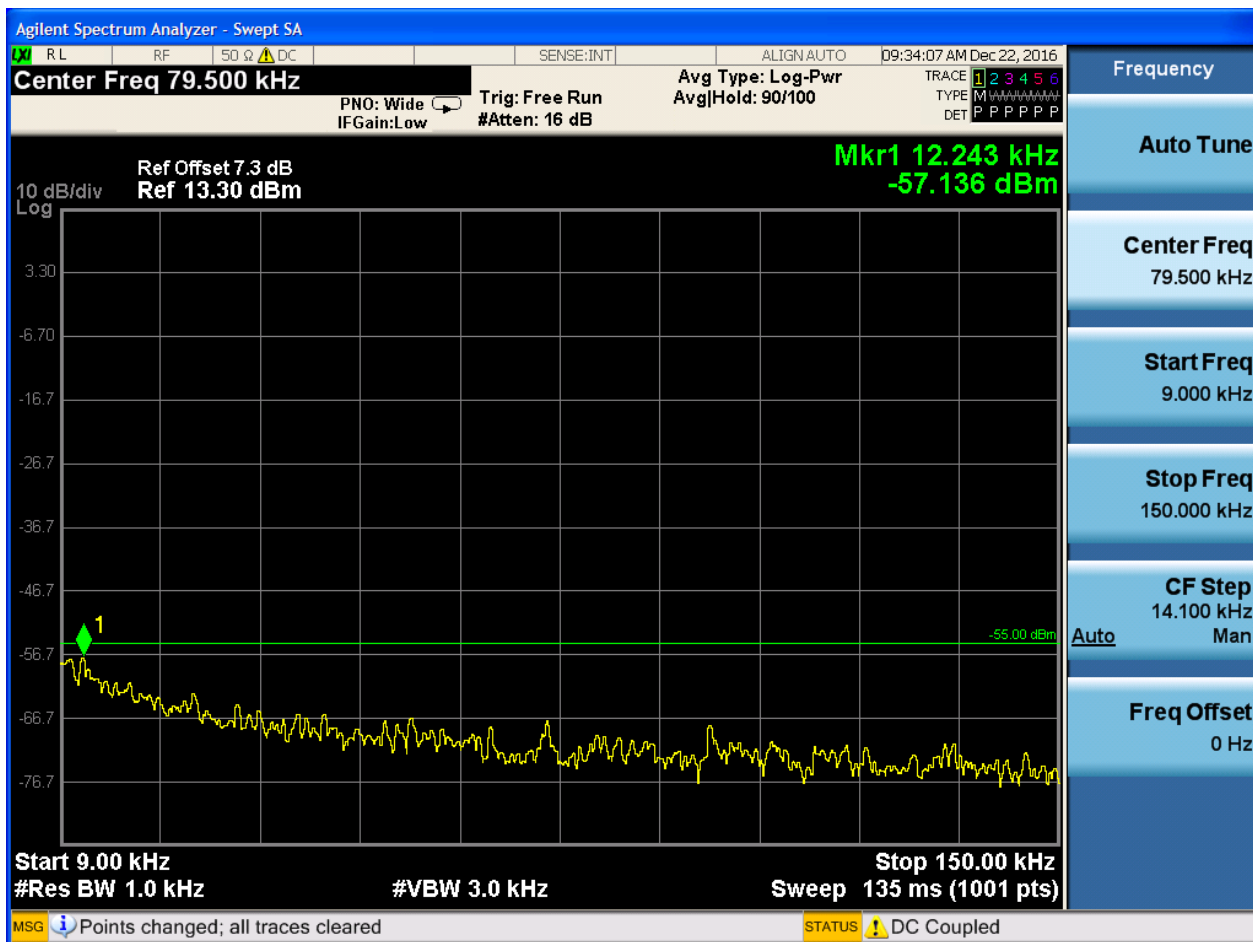


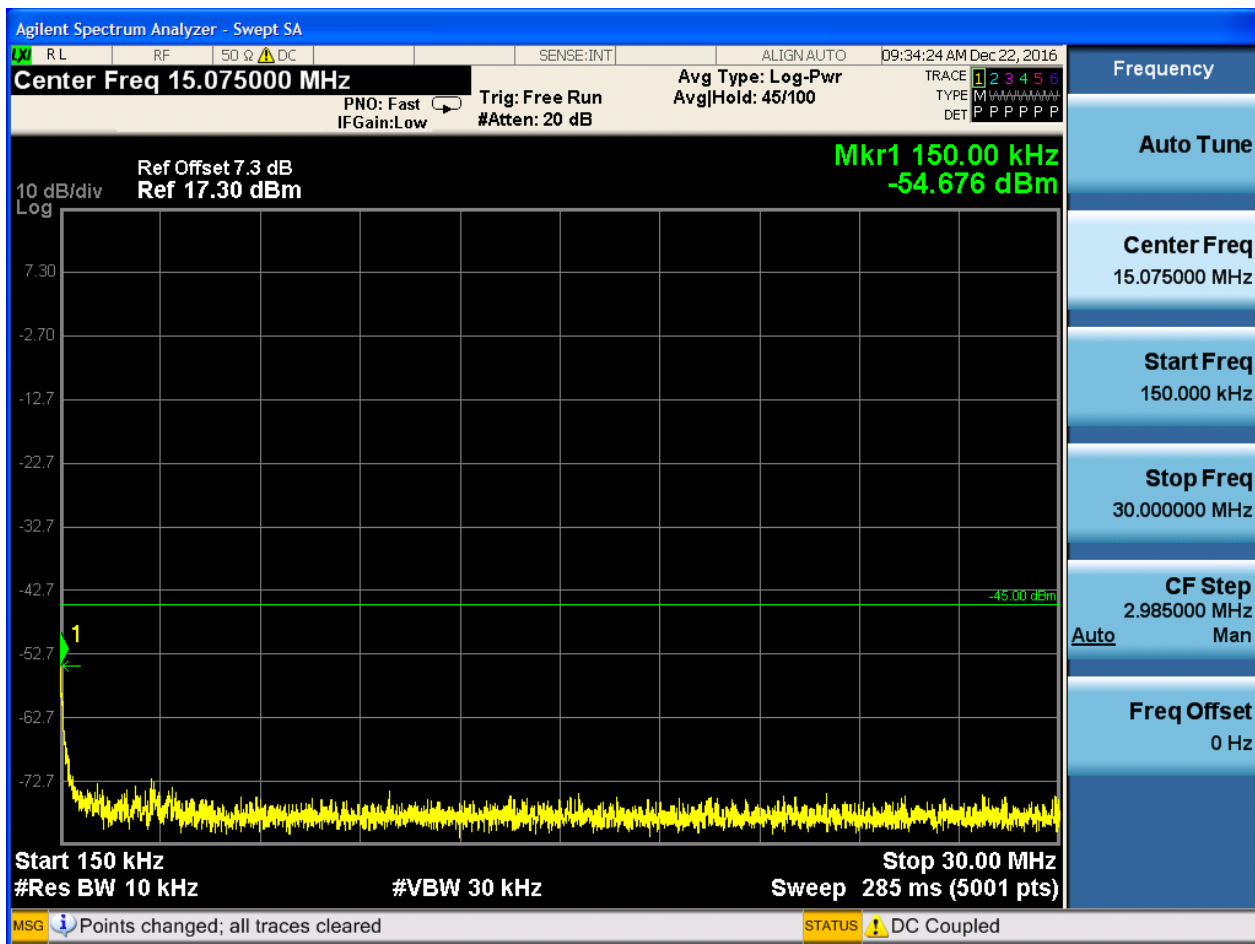




6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



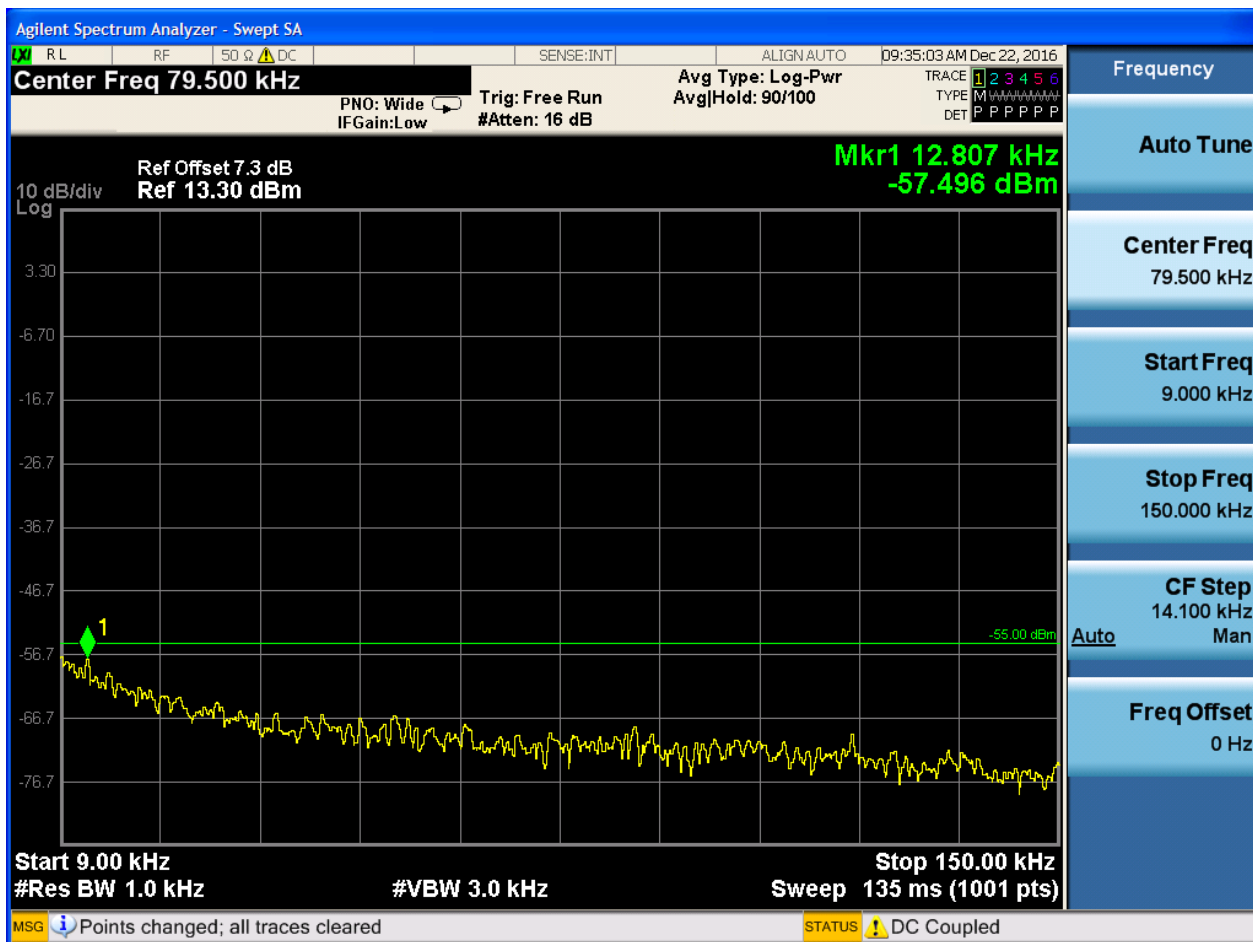






6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





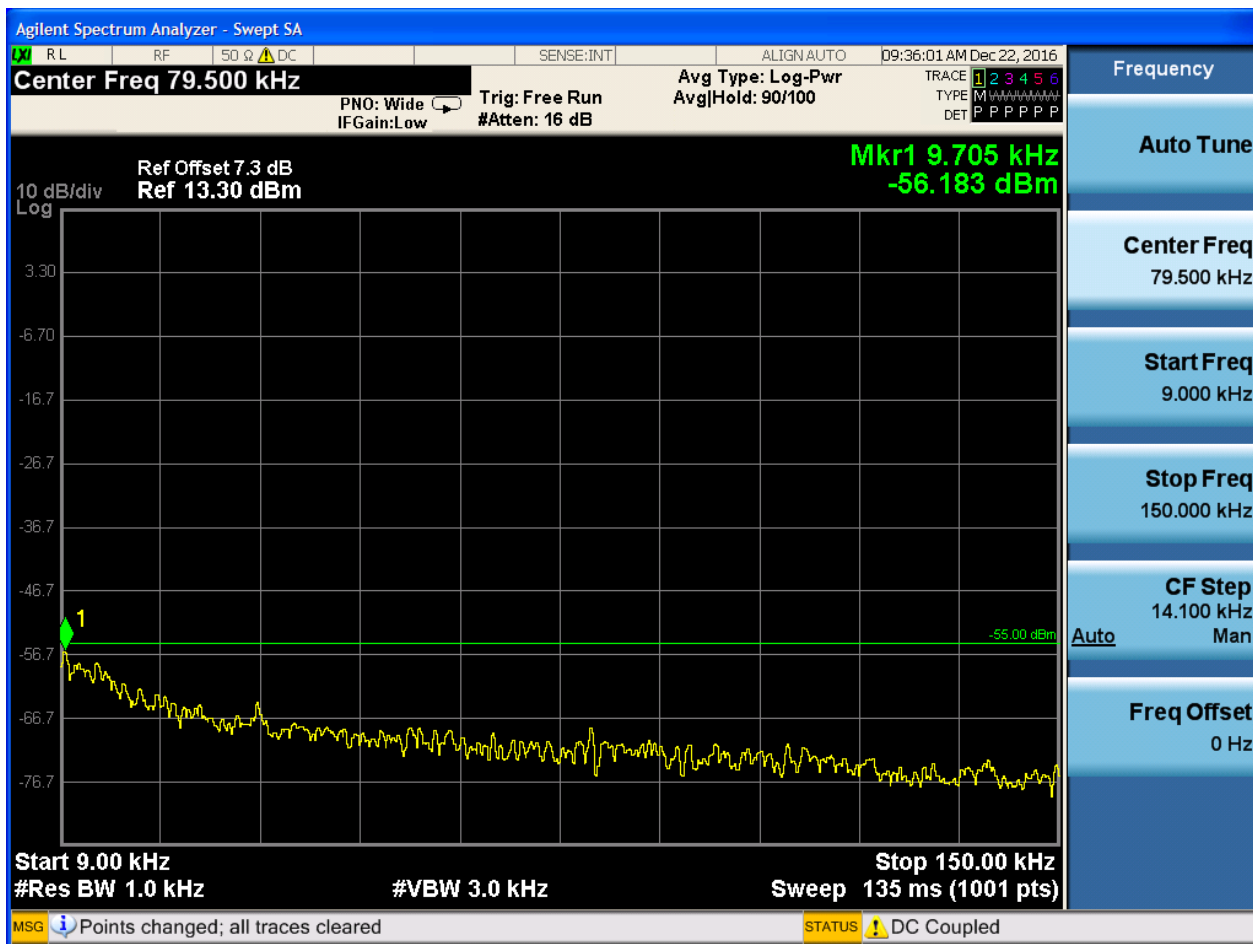




6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



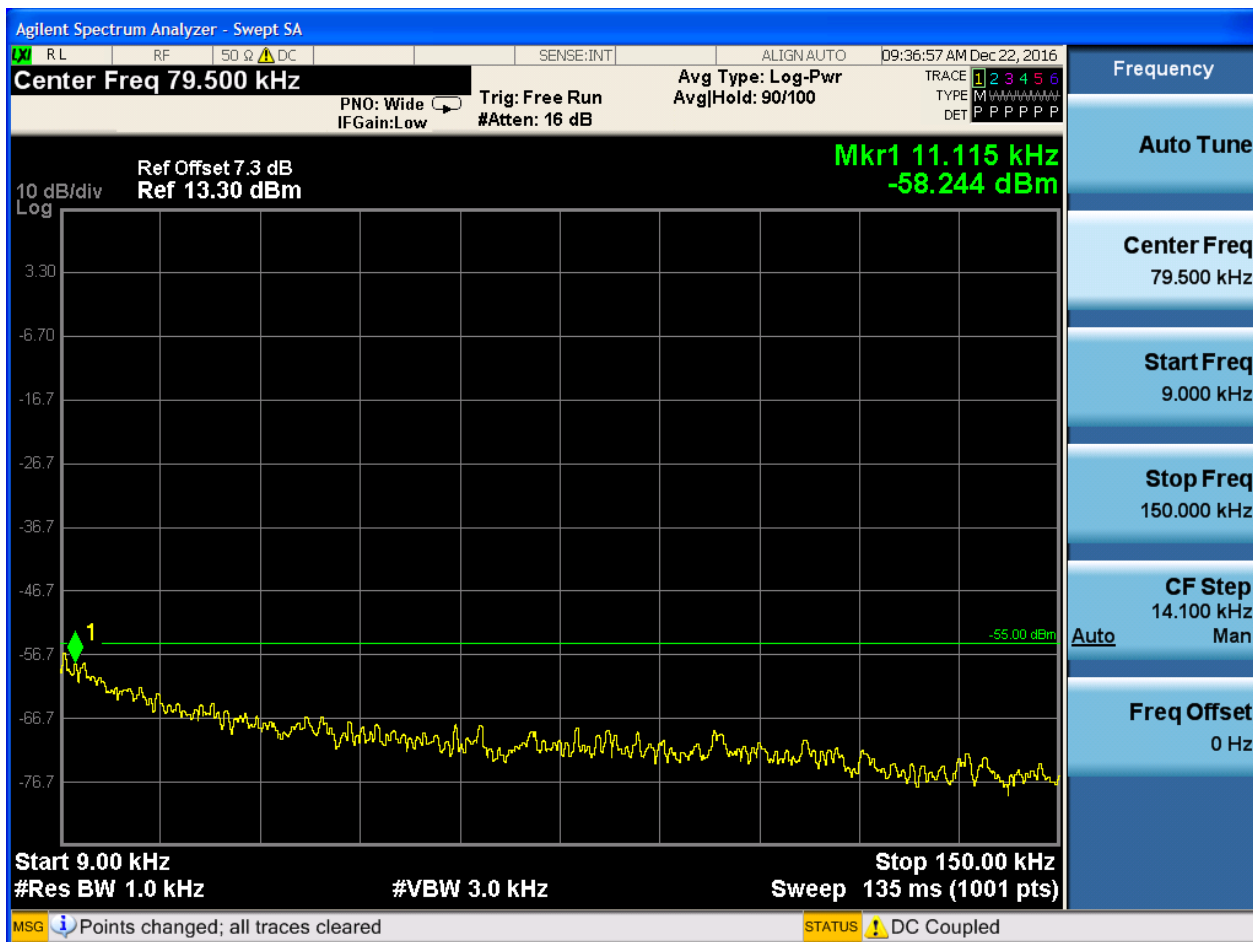


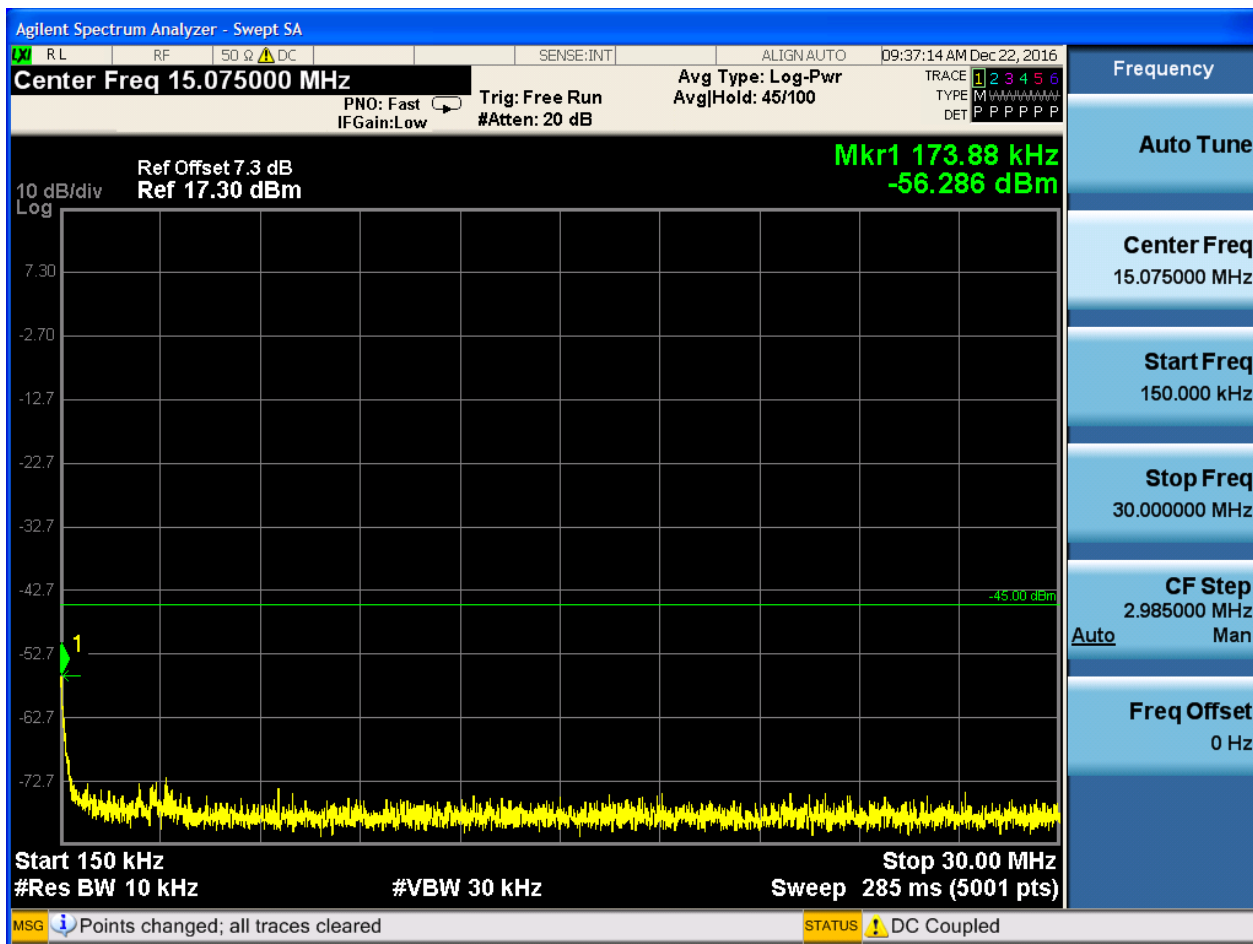




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



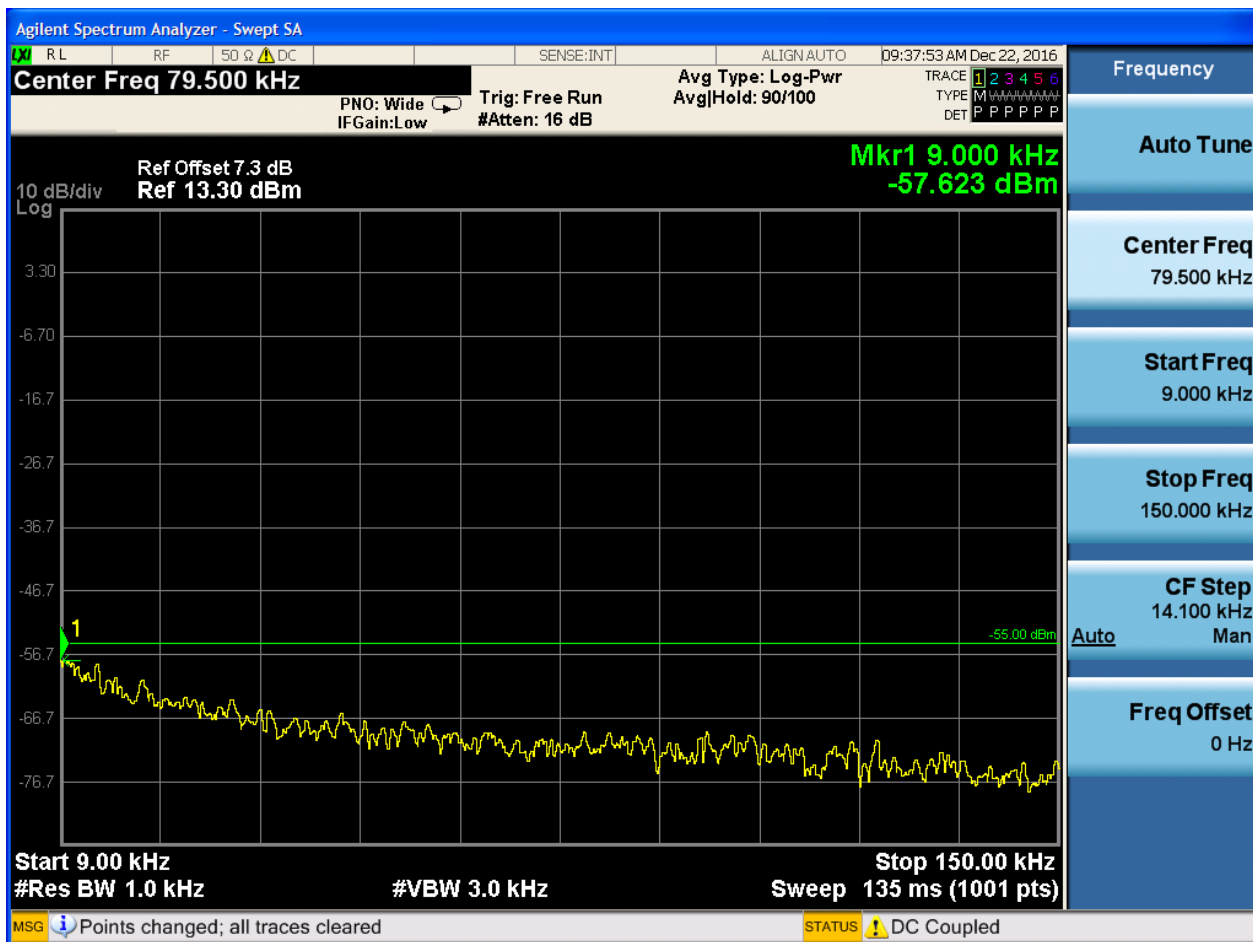






6.1.1.2.4.3 Test Channel = HCH

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, VBW = 200Hz, VBW = 600 Hz, Detector: PK

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

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

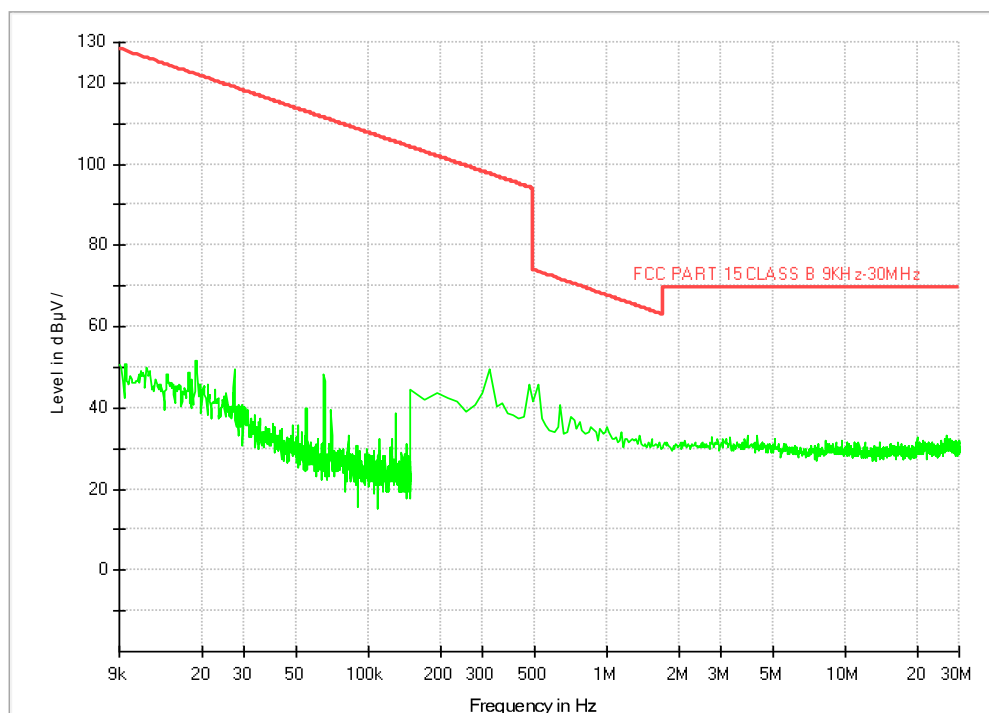
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

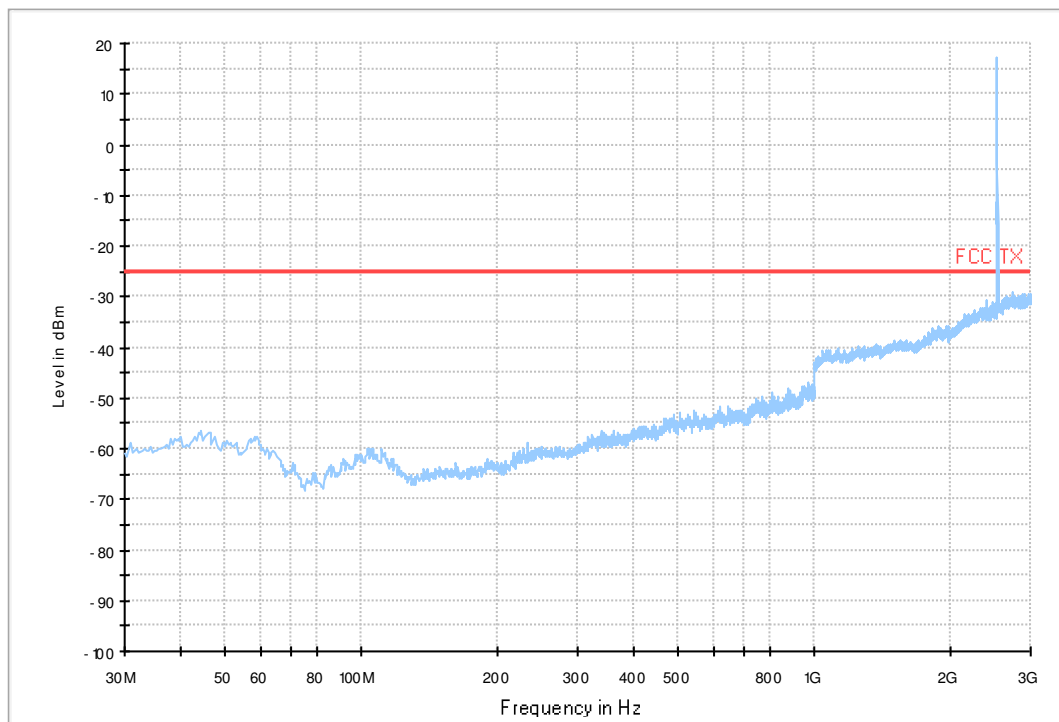
7.1 For LTE

7.1.1 Test Band = BAND7

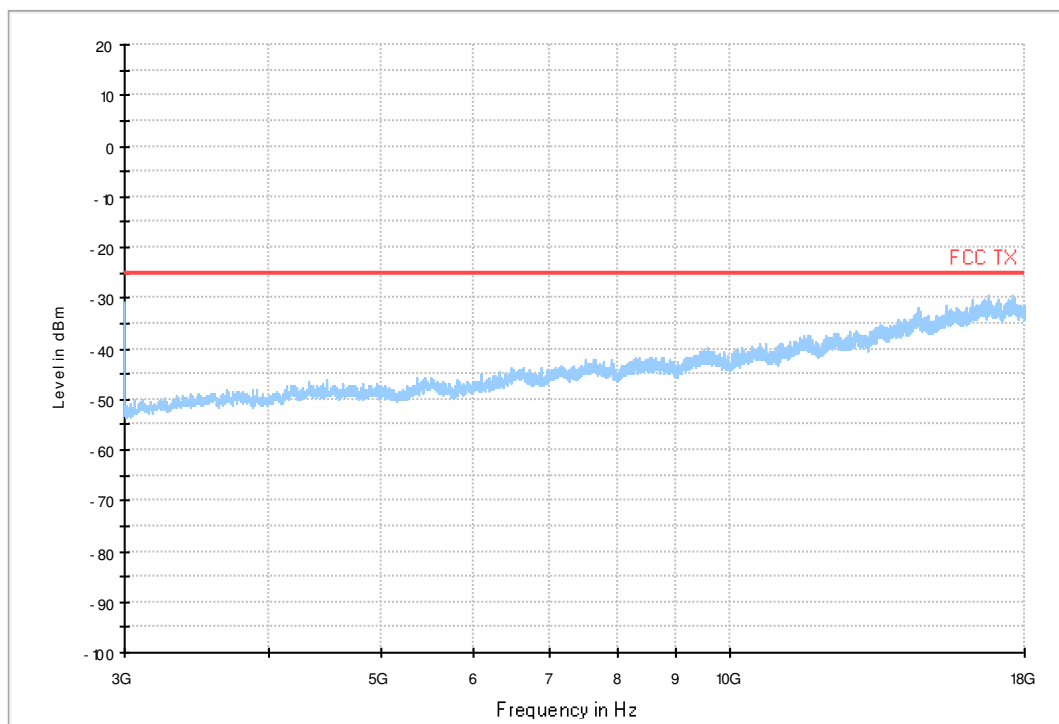
7.1.1.1 Test Bandwidth = 5

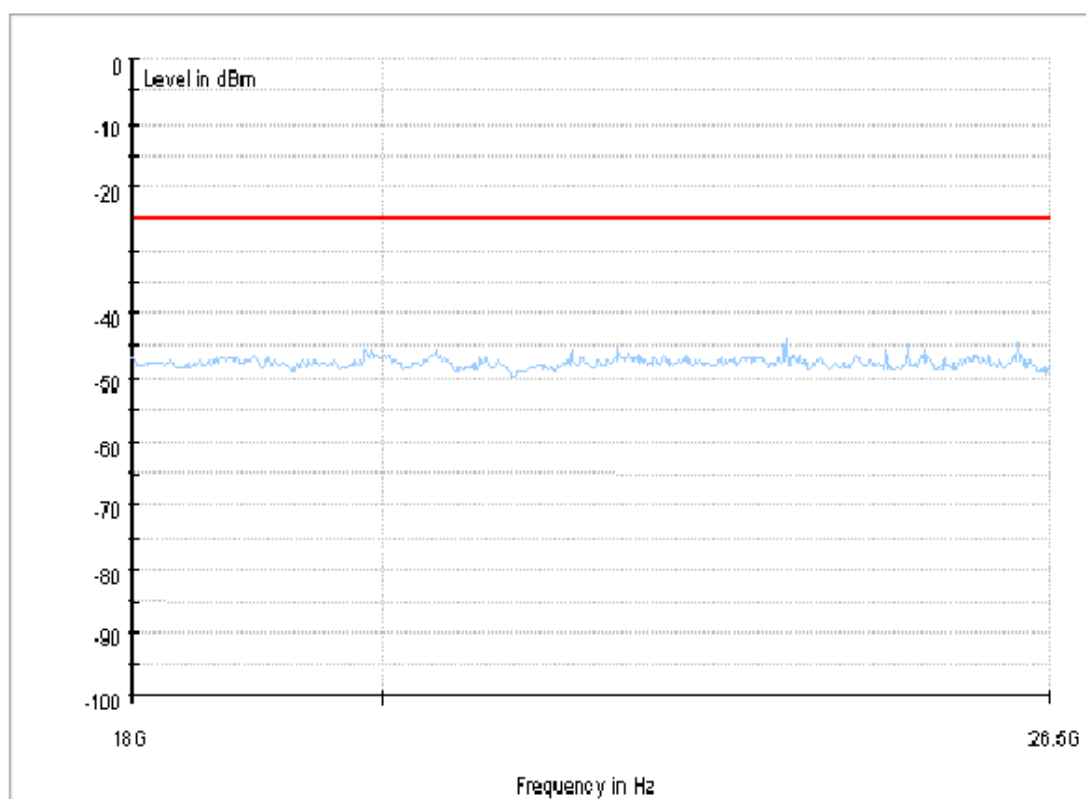


RSE-TXDIRECTOR LTE 73841_L

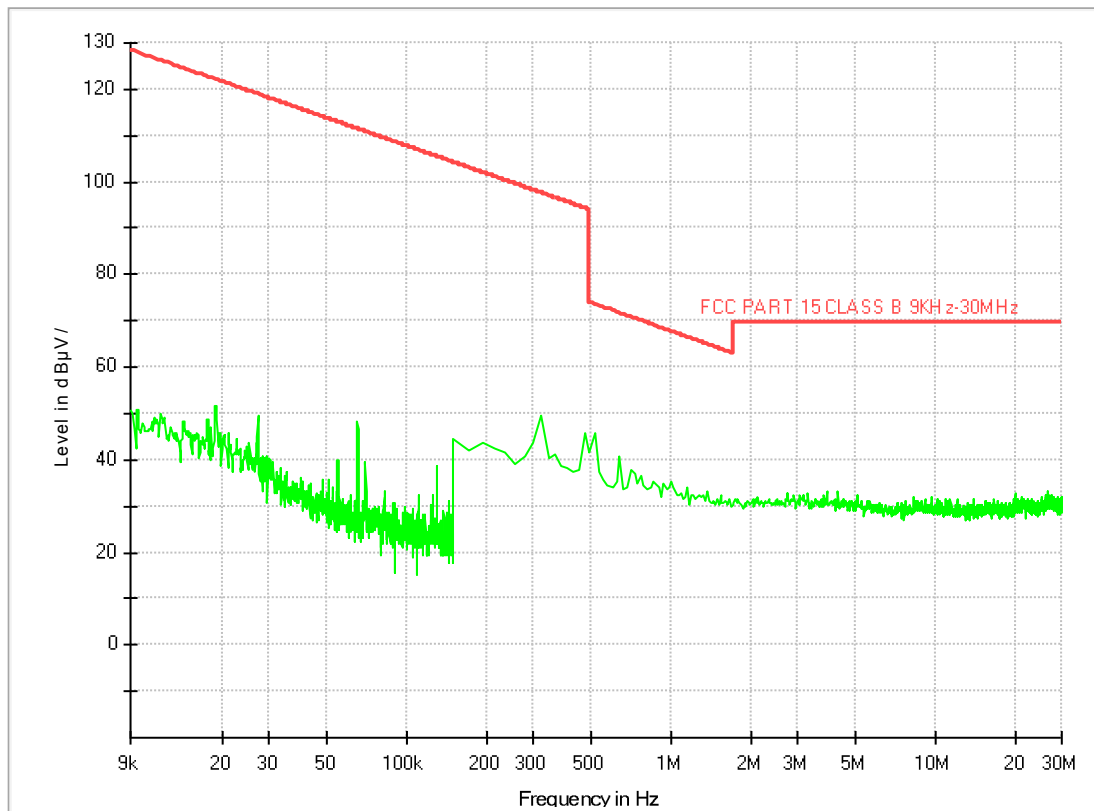


RSE-TXDIRECTOR LTE 73841_H

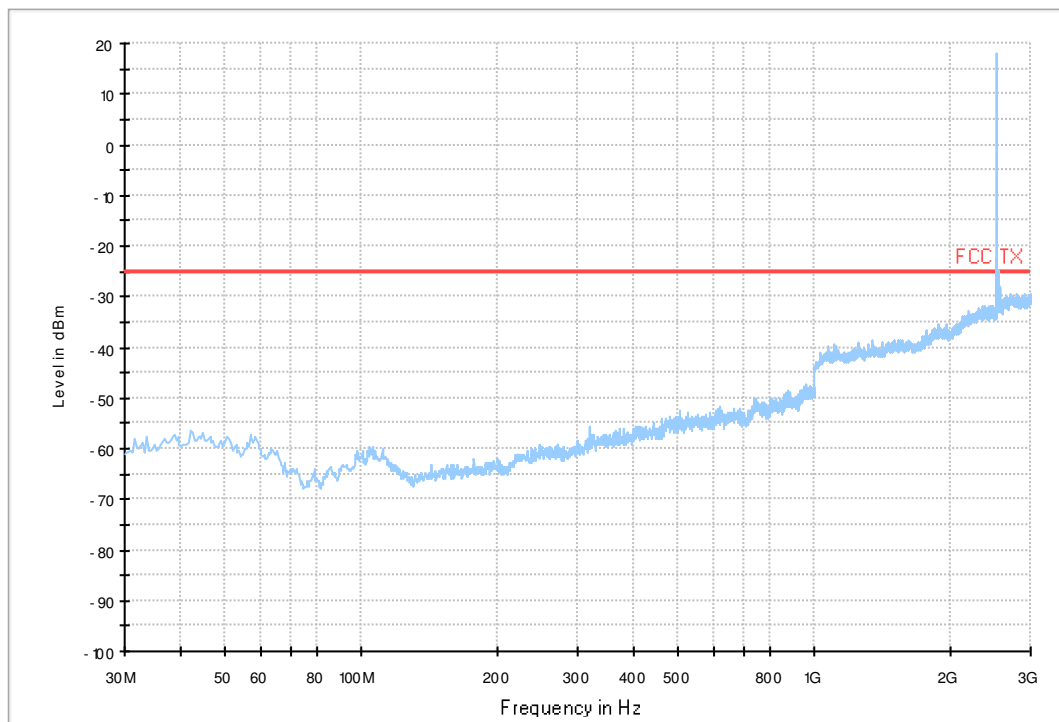




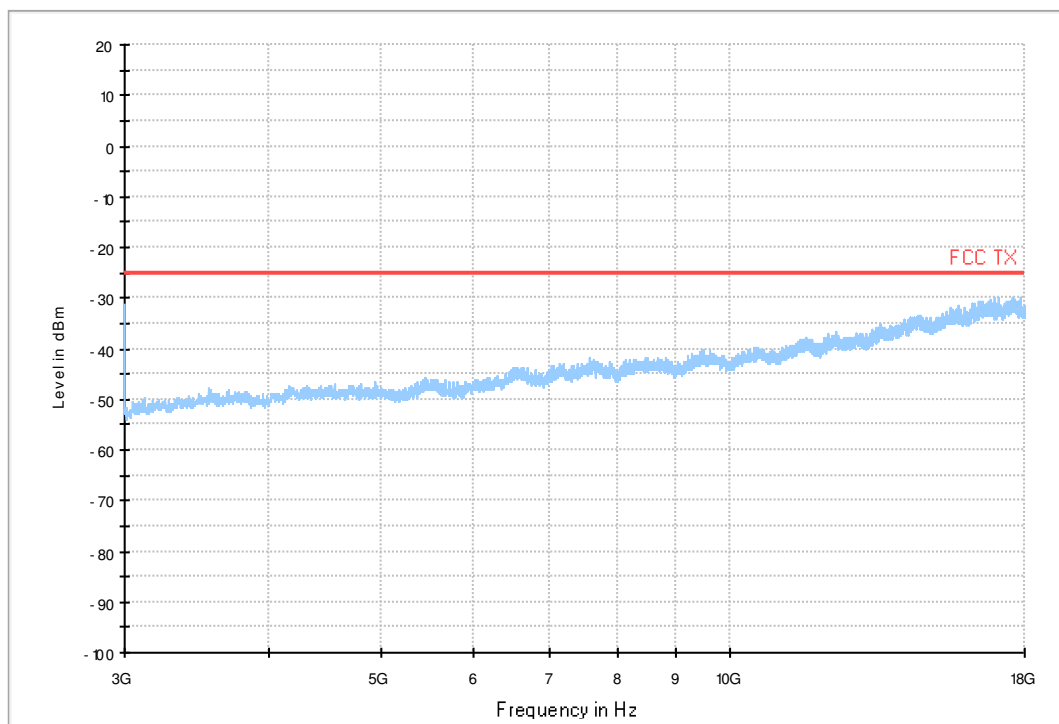
7.1.1.2 Test Bandwidth = 20

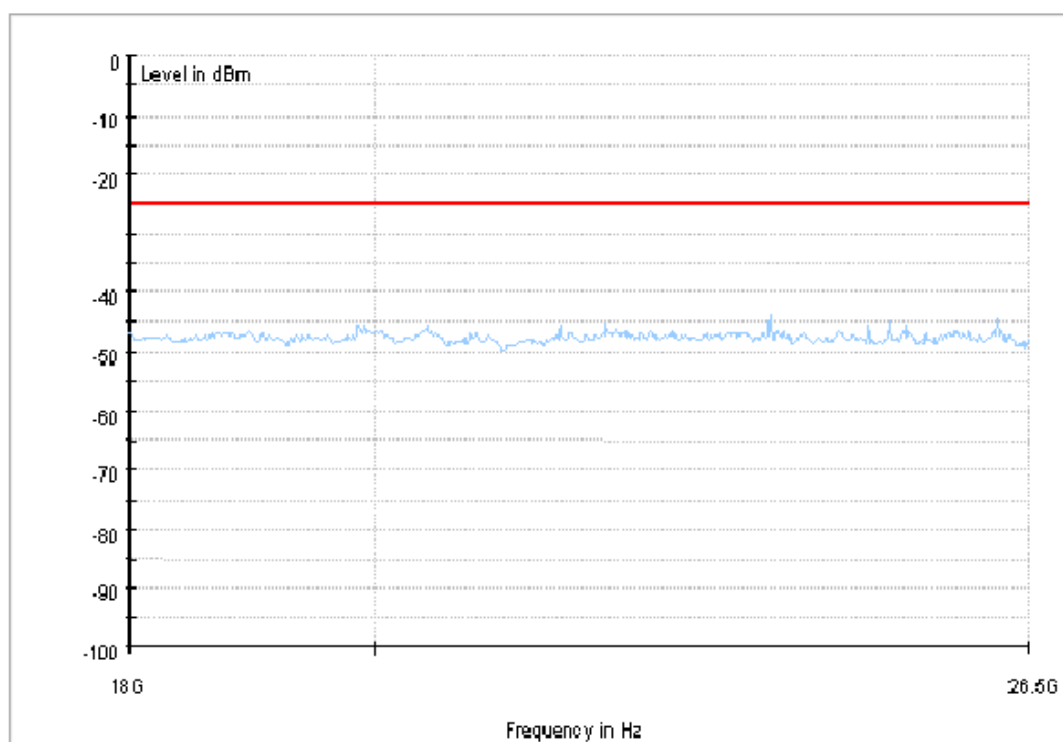


RSE-TXDIRECTOR LTE 73841_L



RSE-TXDIRECTOR LTE 73841_H





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	4.33	0.00173	PASS
					VN	7.08	0.00283	PASS
					VH	4.18	0.00167	PASS
			MCH	TN	VL	0.84	0.00033	PASS
					VN	1.62	0.00064	PASS
					VH	3.55	0.0014	PASS
			HCH	TN	VL	2.29	0.00089	PASS
					VN	1.57	0.00061	PASS
					VH	1.56	0.00061	PASS
		10	LCH	TN	VL	1.22	0.00049	PASS
					VN	4.48	0.00179	PASS
					VH	1.16	0.00046	PASS
			MCH	TN	VL	1.86	0.00073	PASS
					VN	1.33	0.00052	PASS
					VH	1.33	0.00052	PASS
			HCH	TN	VL	2.37	0.00092	PASS
					VN	4.23	0.00165	PASS
					VH	3.95	0.00154	PASS
		15	LCH	TN	VL	5.38	0.00215	PASS
					VN	0.90	0.00036	PASS
					VH	2.65	0.00106	PASS
			MCH	TN	VL	3.05	0.0012	PASS
					VN	1.47	0.00058	PASS
					VH	2.50	0.00099	PASS
			HCH	TN	VL	1.07	0.00042	PASS
					VN	2.17	0.00085	PASS
					VH	0.69	0.00027	PASS
		20	LCH	TN	VL	2.45	0.00098	PASS
					VN	1.07	0.00043	PASS
					VH	2.35	0.00094	PASS
			MCH	TN	VL	1.90	0.00075	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	2.86	0.00113	PASS
					VH	0.83	0.00033	PASS
					VL	-0.14	-0.00005	PASS
					VN	-1.82	-0.00071	PASS
					VH	-0.87	-0.00034	PASS
					VL	2.56	0.00102	PASS
		5	LCH	TN	VN	4.39	0.00175	PASS
					VH	6.71	0.00268	PASS
					VL	4.16	0.00164	PASS
			MCH	TN	VN	2.86	0.00113	PASS
					VH	5.84	0.0023	PASS
					VL	0.49	0.00019	PASS
			HCH	TN	VN	-0.20	-0.00008	PASS
					VH	5.55	0.00216	PASS
					VL	3.58	0.00143	PASS
		10	LCH	TN	VN	3.08	0.00123	PASS
					VH	1.66	0.00066	PASS
					VL	2.66	0.00105	PASS
			MCH	TN	VN	2.12	0.00084	PASS
					VH	1.89	0.00075	PASS
					VL	0.62	0.00024	PASS
			HCH	TN	VN	1.89	0.00074	PASS
					VH	2.60	0.00101	PASS
					VL	0.44	0.00018	PASS
		15	LCH	TN	VN	4.59	0.00183	PASS
					VH	0.63	0.00025	PASS
					VL	1.32	0.00052	PASS
			MCH	TN	VN	1.04	0.00041	PASS
					VH	2.49	0.00098	PASS
					VL	4.91	0.00192	PASS
			HCH	TN	VN	4.36	0.0017	PASS
					VH	3.85	0.0015	PASS
					VL	3.02	0.0012	PASS
		20	LCH	TN	VN	3.46	0.00138	PASS
					VH	4.73	0.00188	PASS
					VL	2.20	0.00087	PASS
			MCH	TN	VN	2.06	0.00081	PASS
					VH	3.48	0.00137	PASS
					VL	-2.83	-0.00111	PASS
			HCH	TN	VL	-2.83	-0.00111	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-4.38	-0.00171	PASS
					VH	-3.46	-0.00135	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	0.83	0.00033	PASS
					-20	0.72	0.00029	PASS
					-10	0.06	0.00002	PASS
					0	0.01	0	PASS
					10	0.83	0.00033	PASS
					20	1.52	0.00061	PASS
					30	0.73	0.00029	PASS
					40	-0.03	-0.00001	PASS
					50	2.13	0.00085	PASS
			MCH	VN	-30	1.37	0.00054	PASS
					-20	2.30	0.00091	PASS
					-10	5.71	0.00225	PASS
					0	1.29	0.00051	PASS
					10	2.37	0.00093	PASS
					20	2.09	0.00082	PASS
					30	1.29	0.00051	PASS
					40	1.57	0.00062	PASS
					50	3.89	0.00153	PASS
			HCH	VN	-30	4.65	0.00181	PASS
					-20	6.18	0.00241	PASS
					-10	5.11	0.00199	PASS
					0	5.95	0.00232	PASS
					10	4.76	0.00185	PASS
					20	2.19	0.00085	PASS
					30	6.24	0.00243	PASS
					40	1.17	0.00046	PASS
					50	0.00	0	PASS
		10	LCH	VN	-30	5.24	0.00209	PASS
					-20	3.85	0.00154	PASS
					-10	2.88	0.00115	PASS
					0	4.49	0.00179	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	5.09	0.00203	PASS
					20	3.85	0.00154	PASS
					30	4.76	0.0019	PASS
					40	1.75	0.0007	PASS
					50	3.10	0.00124	PASS
			MCH	VN	-30	0.17	0.00007	PASS
					-20	0.59	0.00023	PASS
					-10	0.26	0.0001	PASS
					0	0.94	0.00037	PASS
					10	1.32	0.00052	PASS
					20	1.47	0.00058	PASS
					30	1.66	0.00065	PASS
					40	1.87	0.00074	PASS
					50	1.79	0.00071	PASS
			HCH	VN	-30	3.23	0.00126	PASS
					-20	1.73	0.00067	PASS
					-10	3.38	0.00132	PASS
					0	3.30	0.00129	PASS
					10	3.03	0.00118	PASS
					20	3.10	0.00121	PASS
					30	2.80	0.00109	PASS
					40	2.73	0.00106	PASS
					50	4.66	0.00182	PASS
		15	LCH	VN	-30	4.02	0.0016	PASS
					-20	4.03	0.00161	PASS
					-10	4.95	0.00197	PASS
					0	4.62	0.00184	PASS
					10	4.01	0.0016	PASS
					20	4.55	0.00181	PASS
					30	4.72	0.00188	PASS
					40	3.86	0.00154	PASS
					50	3.73	0.00149	PASS
			MCH	VN	-30	2.59	0.00102	PASS
					-20	1.54	0.00061	PASS
					-10	2.78	0.0011	PASS
					0	1.22	0.00048	PASS
					10	2.17	0.00086	PASS
					20	1.67	0.00066	PASS
					30	1.96	0.00077	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	1.30	0.00051	PASS
					50	1.40	0.00055	PASS
			HCH	VN	-30	0.96	0.00037	PASS
					-20	1.70	0.00066	PASS
					-10	0.82	0.00032	PASS
					0	0.92	0.00036	PASS
					10	2.07	0.00081	PASS
					20	1.77	0.00069	PASS
					30	1.39	0.00054	PASS
					40	1.30	0.00051	PASS
					50	-0.11	-0.00004	PASS
		20	LCH	VN	-30	2.05	0.00082	PASS
					-20	3.46	0.00138	PASS
					-10	6.11	0.00243	PASS
					0	5.78	0.0023	PASS
					10	5.14	0.00205	PASS
					20	6.01	0.00239	PASS
					30	5.21	0.00208	PASS
					40	5.11	0.00204	PASS
					50	5.68	0.00226	PASS
			MCH	VN	-30	2.78	0.0011	PASS
					-20	1.69	0.00067	PASS
					-10	2.45	0.00097	PASS
					0	2.26	0.00089	PASS
					10	1.95	0.00077	PASS
					20	2.02	0.0008	PASS
					30	2.68	0.00106	PASS
					40	1.43	0.00056	PASS
					50	2.15	0.00085	PASS
			HCH	VN	-30	-1.56	-0.00061	PASS
					-20	-3.19	-0.00125	PASS
					-10	-1.90	-0.00074	PASS
					0	-2.13	-0.00083	PASS
					10	-3.18	-0.00124	PASS
					20	-2.29	-0.00089	PASS
					30	-1.50	-0.00059	PASS
					40	-0.29	-0.00011	PASS
					50	-0.90	-0.00035	PASS
	LTE/TM2	5	LCH	VN	-30	2.65	0.00106	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.53	0.00021	PASS
					-10	0.03	0.00001	PASS
					0	3.06	0.00122	PASS
					10	0.14	0.00006	PASS
					20	3.28	0.00131	PASS
					30	5.31	0.00212	PASS
					40	2.06	0.00082	PASS
					50	3.78	0.00151	PASS
			MCH	VN	-30	2.66	0.00105	PASS
					-20	0.50	0.0002	PASS
					-10	5.06	0.002	PASS
					0	4.85	0.00191	PASS
					10	1.23	0.00049	PASS
					20	1.07	0.00042	PASS
					30	3.38	0.00133	PASS
					40	-0.46	-0.00018	PASS
					50	1.66	0.00065	PASS
			HCH	VN	-30	2.33	0.00091	PASS
					-20	4.29	0.00167	PASS
					-10	6.78	0.00264	PASS
					0	3.15	0.00123	PASS
					10	5.66	0.0022	PASS
					20	3.56	0.00139	PASS
					30	3.93	0.00153	PASS
					40	4.41	0.00172	PASS
					50	0.36	0.00014	PASS
		10	LCH	VN	-30	2.33	0.00093	PASS
					-20	5.97	0.00238	PASS
					-10	2.03	0.00081	PASS
					0	0.27	0.00011	PASS
					10	4.05	0.00162	PASS
					20	2.99	0.00119	PASS
					30	2.59	0.00103	PASS
					40	2.99	0.00119	PASS
					50	3.35	0.00134	PASS
			MCH	VN	-30	6.08	0.0024	PASS
					-20	4.32	0.0017	PASS
					-10	6.44	0.00254	PASS
					0	6.05	0.00239	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	6.85	0.0027	PASS
					20	4.69	0.00185	PASS
					30	5.69	0.00224	PASS
					40	4.56	0.0018	PASS
					50	6.84	0.0027	PASS
			HCH	VN	-30	0.56	0.00022	PASS
					-20	0.66	0.00026	PASS
					-10	1.39	0.00054	PASS
					0	1.34	0.00052	PASS
					10	1.33	0.00052	PASS
					20	3.28	0.00128	PASS
					30	1.82	0.00071	PASS
					40	1.93	0.00075	PASS
					50	2.35	0.00092	PASS
		15	LCH	VN	-30	2.09	0.00083	PASS
					-20	3.99	0.00159	PASS
					-10	2.56	0.00102	PASS
					0	3.95	0.00158	PASS
					10	1.10	0.00044	PASS
					20	2.49	0.00099	PASS
					30	1.85	0.00074	PASS
					40	2.80	0.00112	PASS
					50	3.88	0.00155	PASS
			MCH	VN	-30	3.59	0.00142	PASS
					-20	4.33	0.00171	PASS
					-10	3.83	0.00151	PASS
					0	4.12	0.00163	PASS
					10	3.32	0.00131	PASS
					20	2.56	0.00101	PASS
					30	4.96	0.00196	PASS
					40	3.86	0.00152	PASS
					50	4.15	0.00164	PASS
			HCH	VN	-30	-1.00	-0.00039	PASS
					-20	-0.41	-0.00016	PASS
					-10	-2.22	-0.00087	PASS
					0	-0.73	-0.00028	PASS
					10	-1.07	-0.00042	PASS
					20	-0.30	-0.00012	PASS
					30	0.33	0.00013	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20			40	-1.56	-0.00061	PASS
					50	-0.40	-0.00016	PASS
			LCH	VN	-30	2.80	0.00112	PASS
					-20	2.99	0.00119	PASS
					-10	2.06	0.00082	PASS
					0	2.45	0.00098	PASS
					10	3.00	0.0012	PASS
					20	2.15	0.00086	PASS
					30	3.73	0.00149	PASS
					40	3.95	0.00157	PASS
					50	3.36	0.00134	PASS
			MCH	VN	-30	2.96	0.00117	PASS
					-20	2.25	0.00089	PASS
					-10	3.60	0.00142	PASS
					0	2.70	0.00107	PASS
					10	3.56	0.0014	PASS
					20	3.43	0.00135	PASS
					30	2.46	0.00097	PASS
					40	2.50	0.00099	PASS
			HCH	VN	50	4.03	0.00159	PASS
					-30	-2.09	-0.00082	PASS
					-20	-1.47	-0.00057	PASS
					-10	-1.95	-0.00076	PASS
					0	-1.97	-0.00077	PASS
					10	-1.57	-0.00061	PASS
					20	-2.76	-0.00108	PASS
					30	-2.32	-0.00091	PASS
					40	-1.54	-0.0006	PASS
					50	-1.65	-0.00064	PASS

END