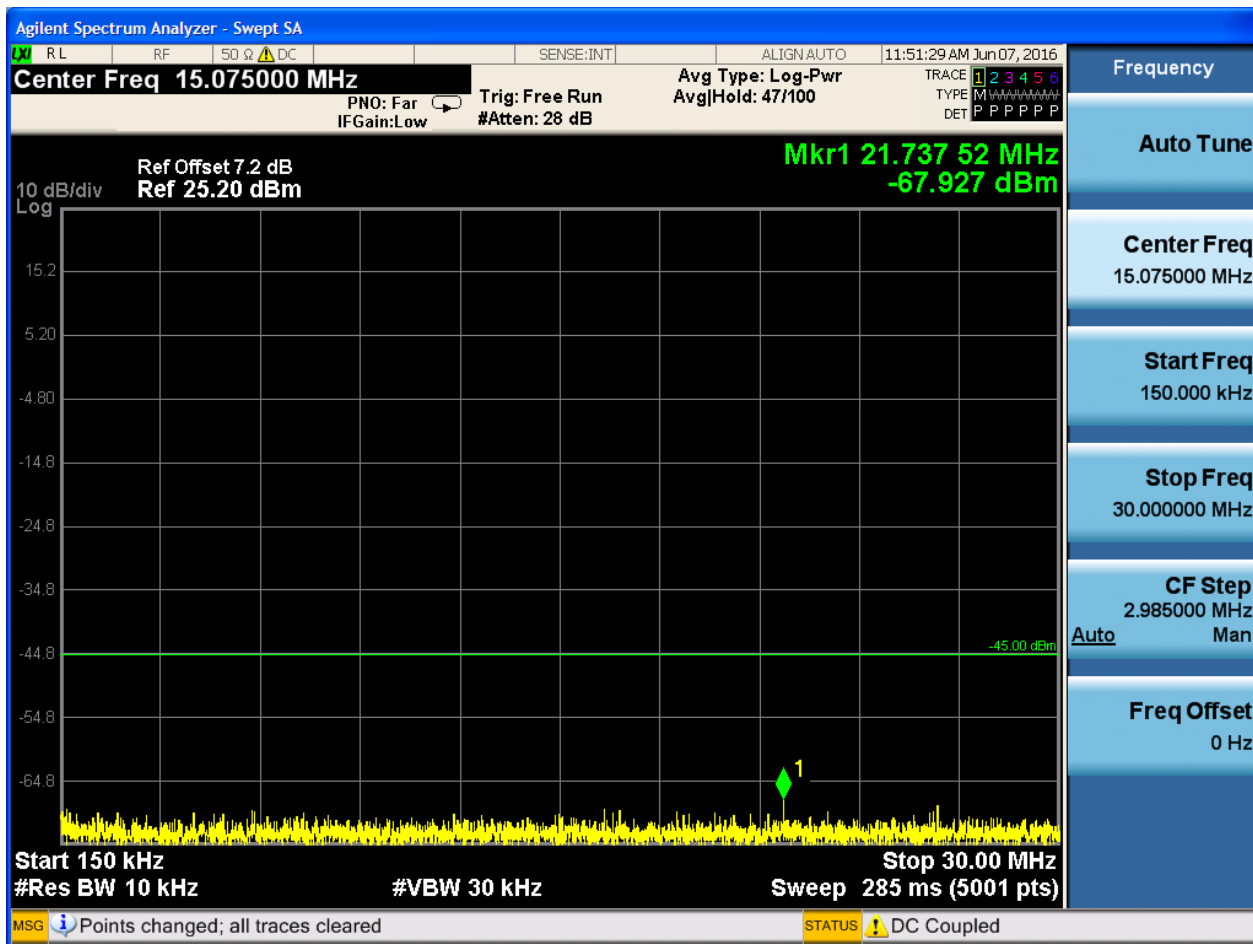


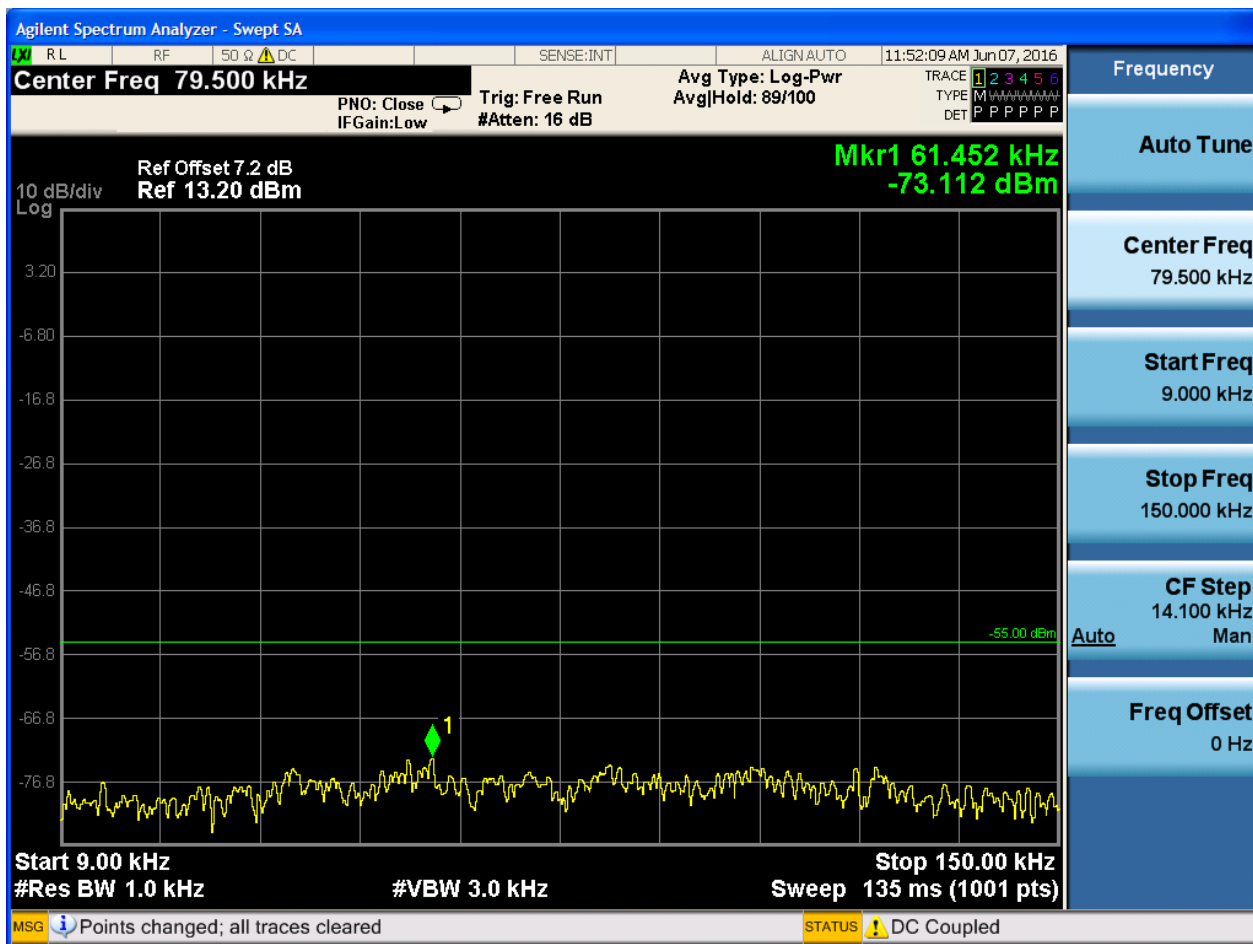


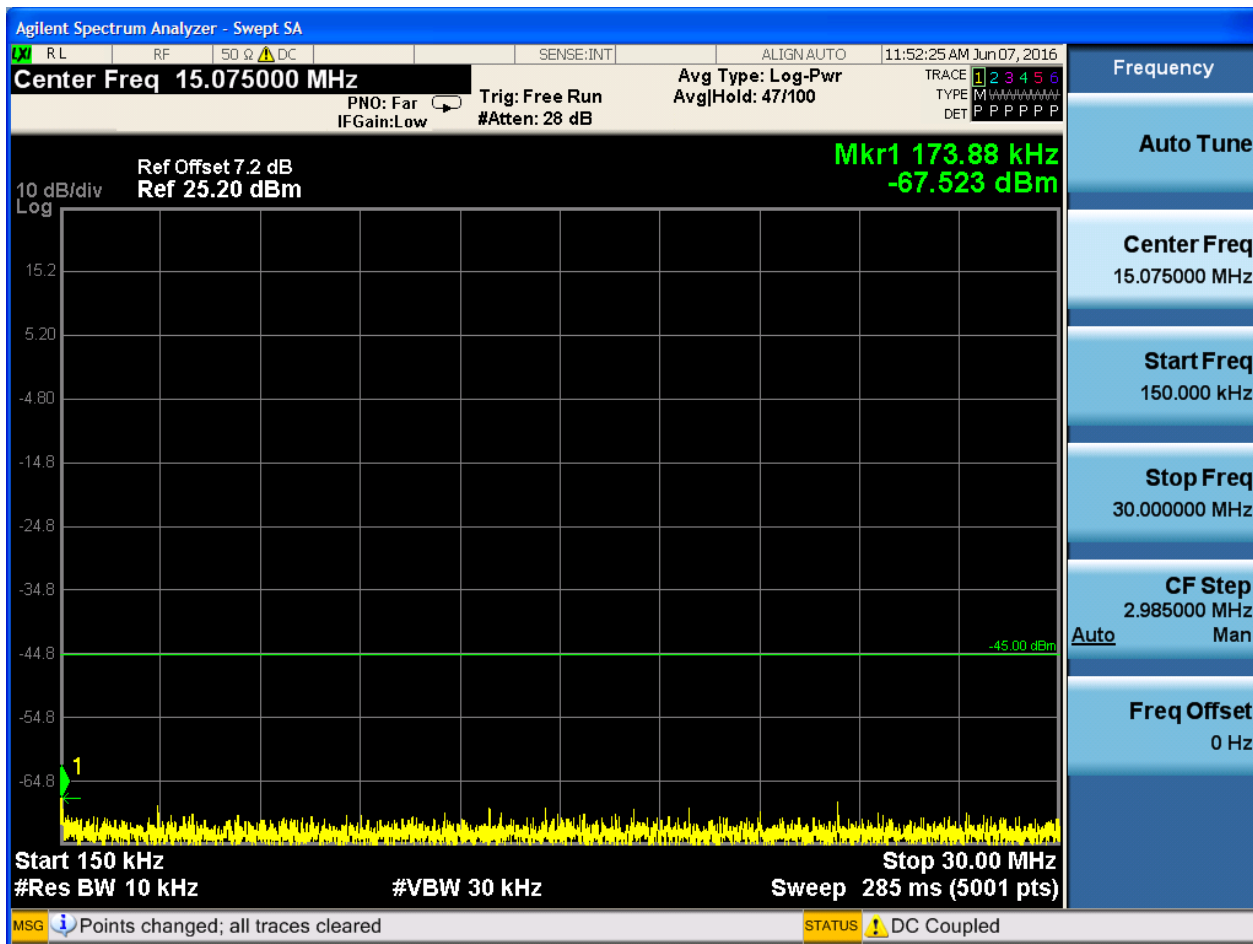




6.1.1.1.2 Test Channel = MCH

6.1.1.1.2.1 Test RB = RB1#0



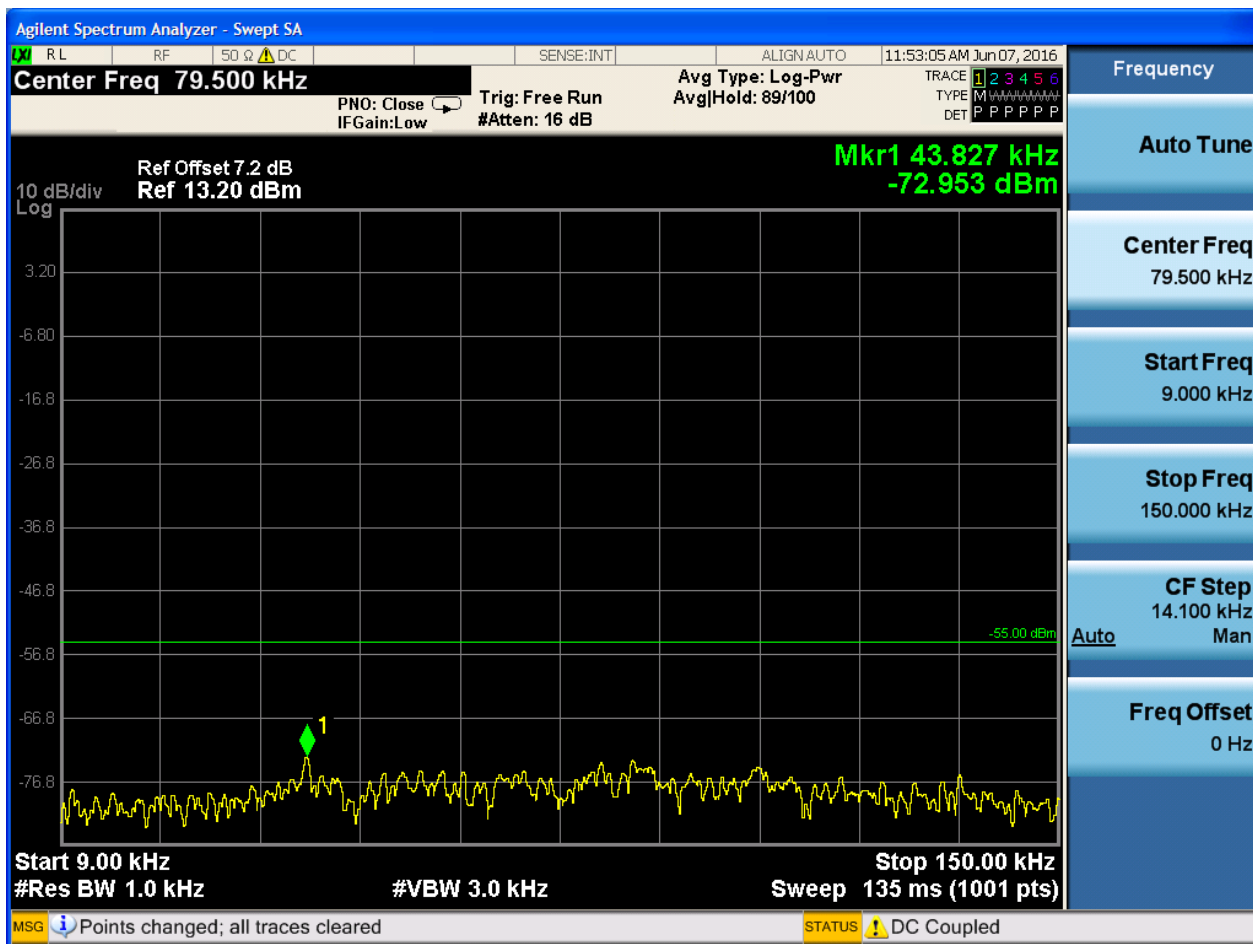




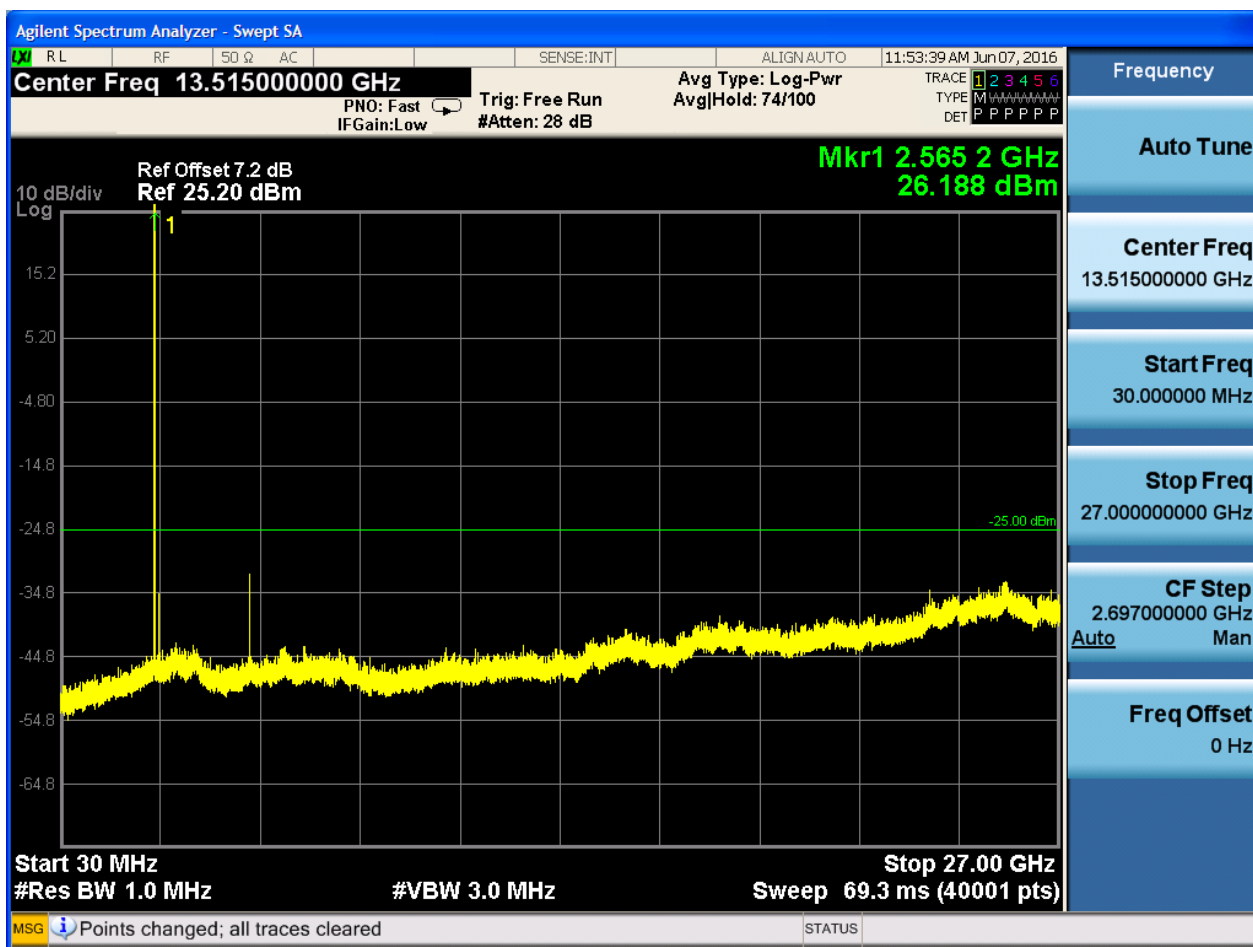


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



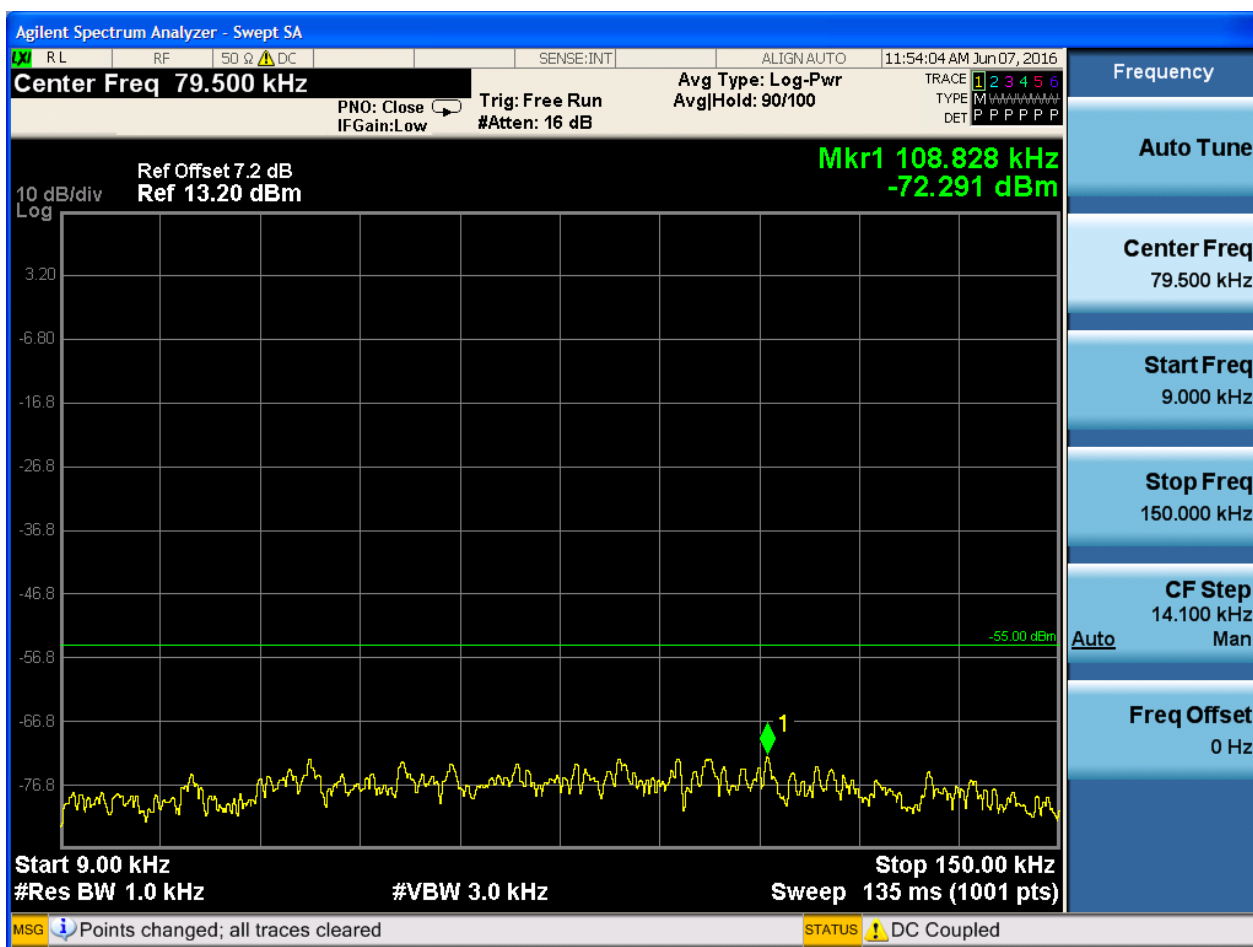


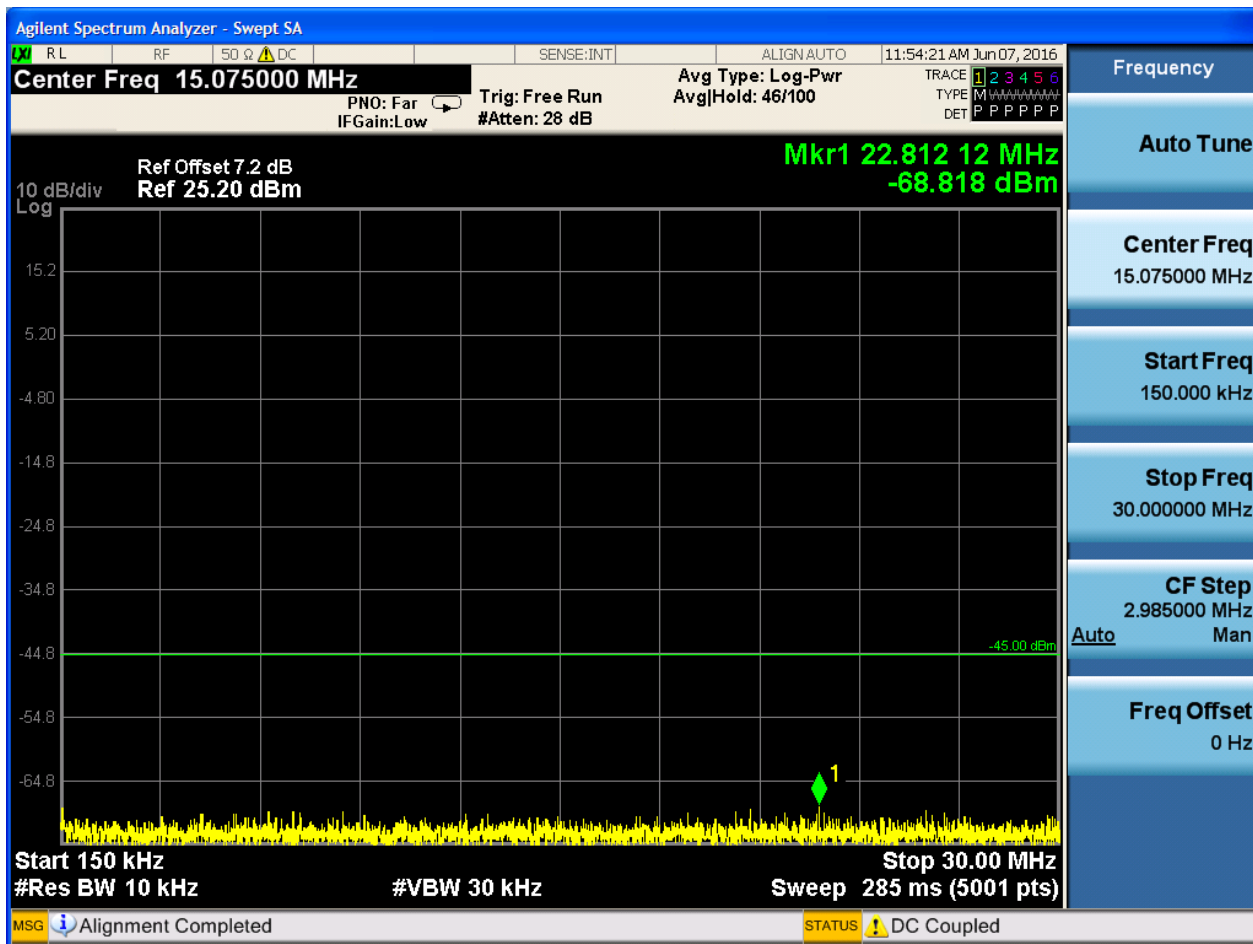


6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

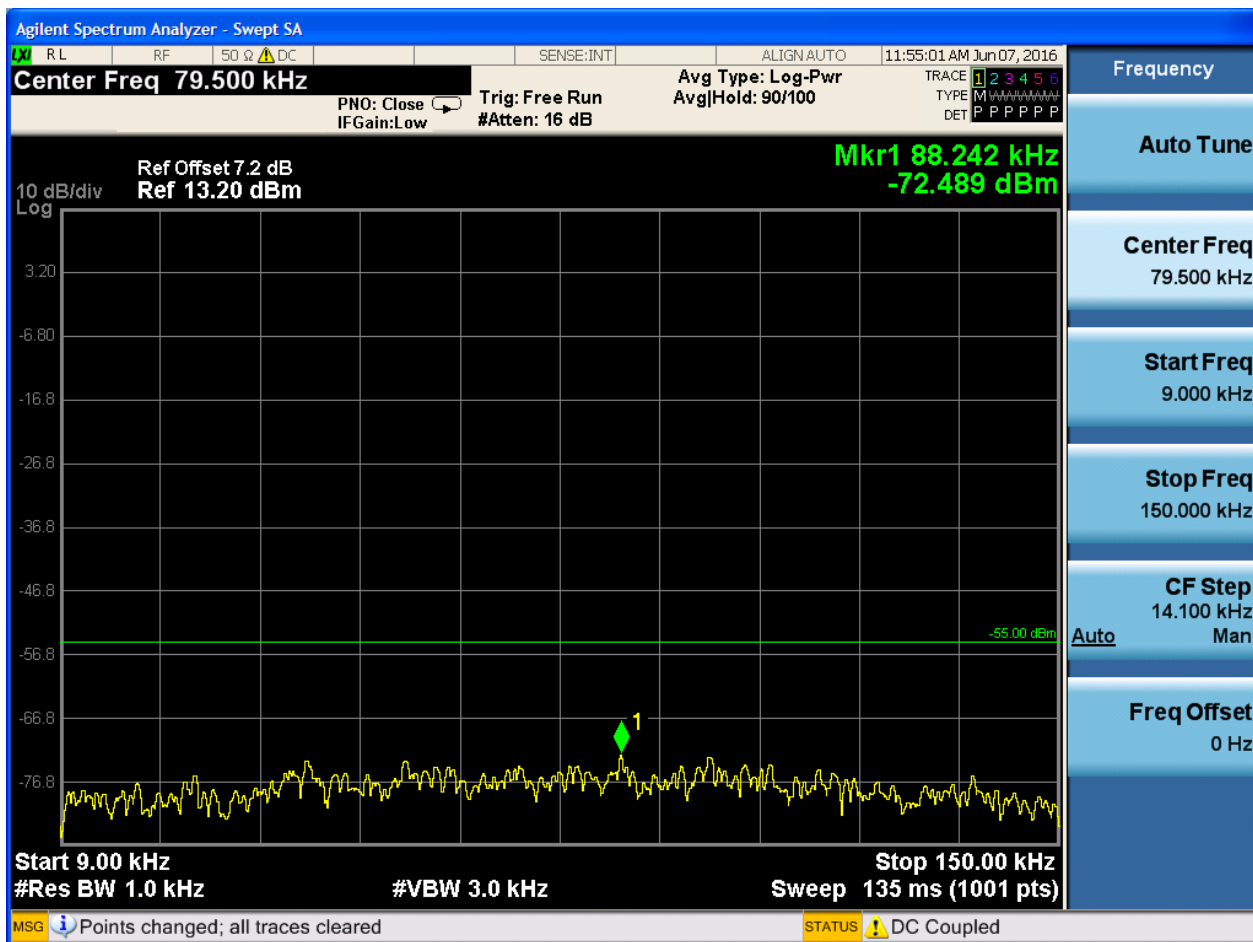


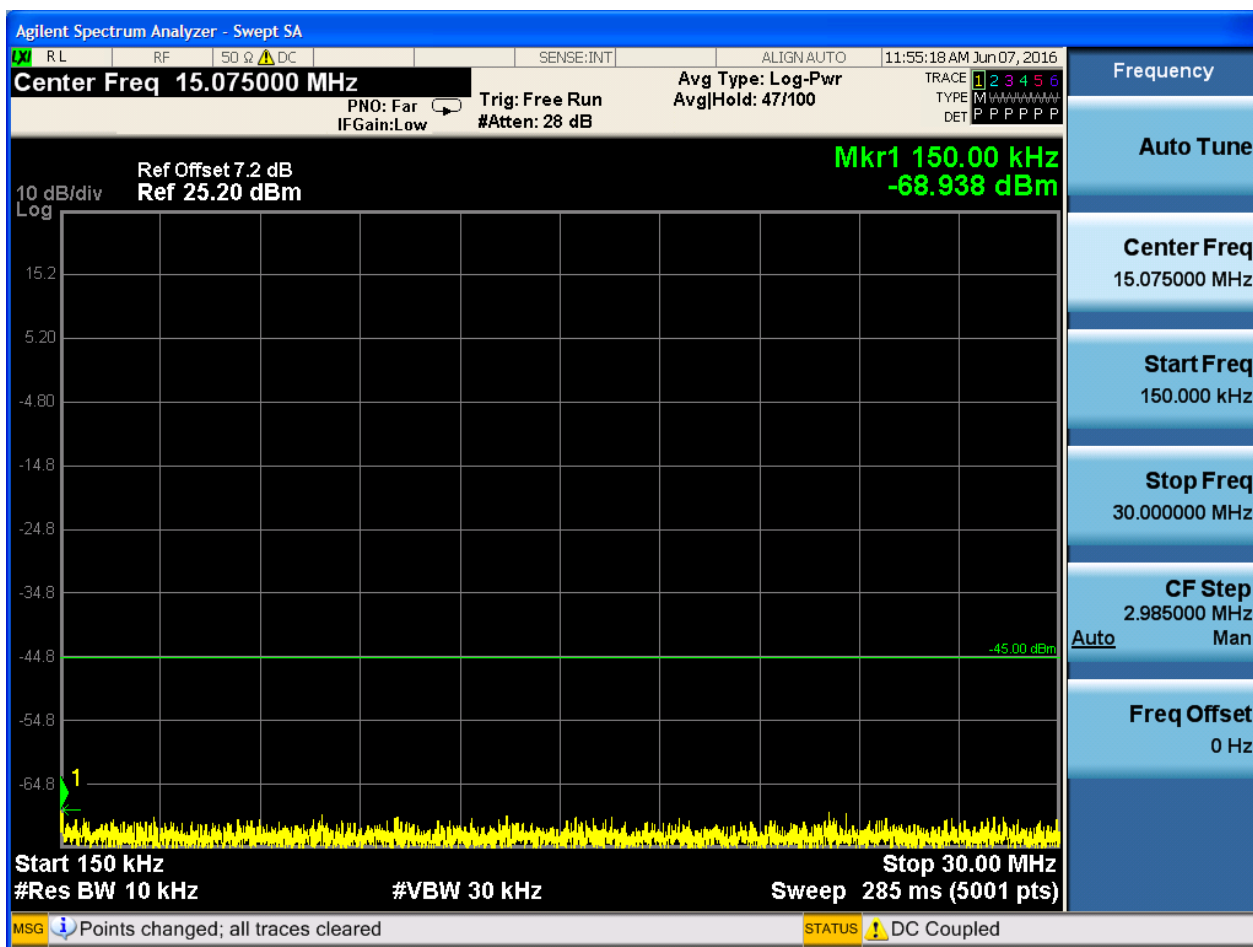




6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

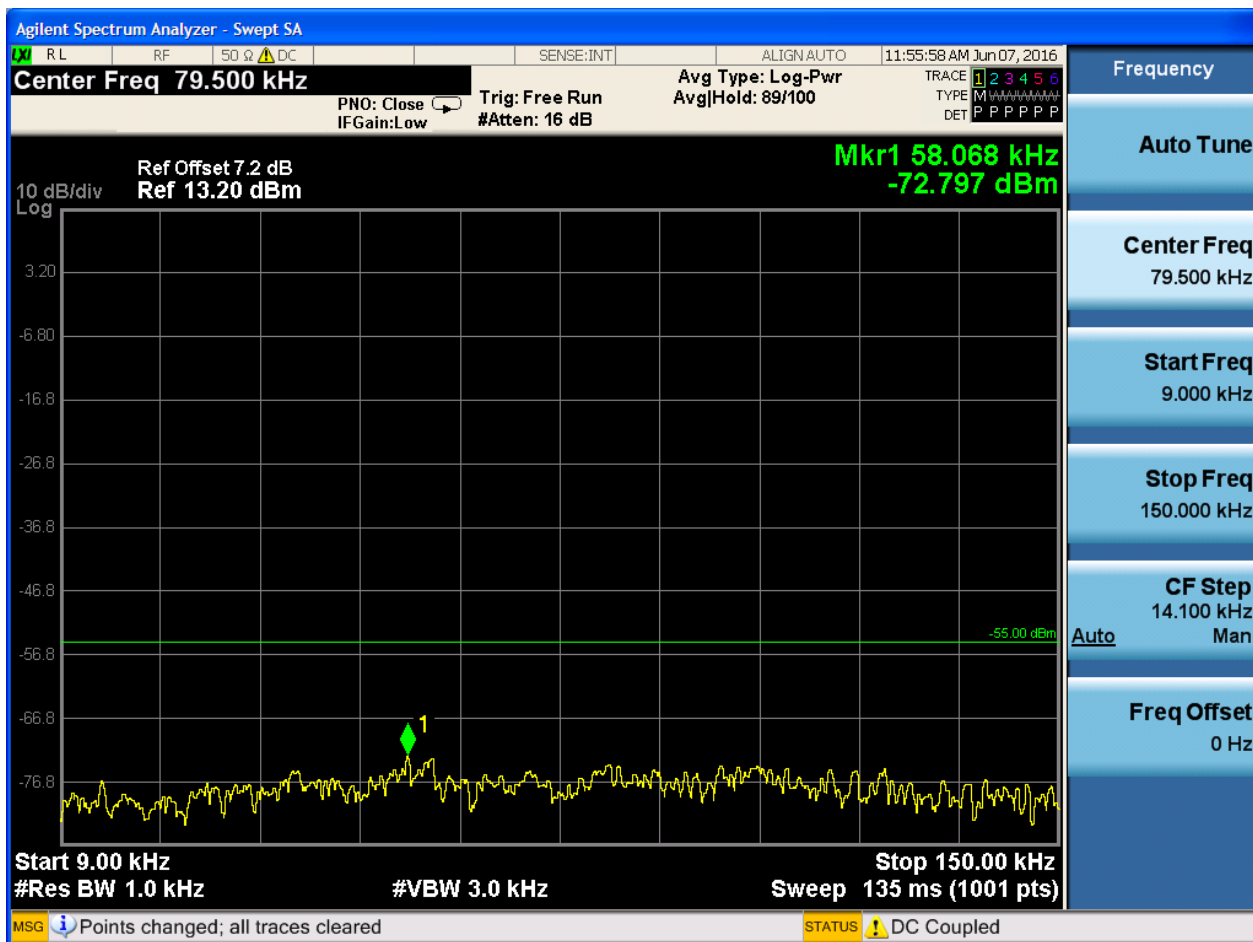






6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



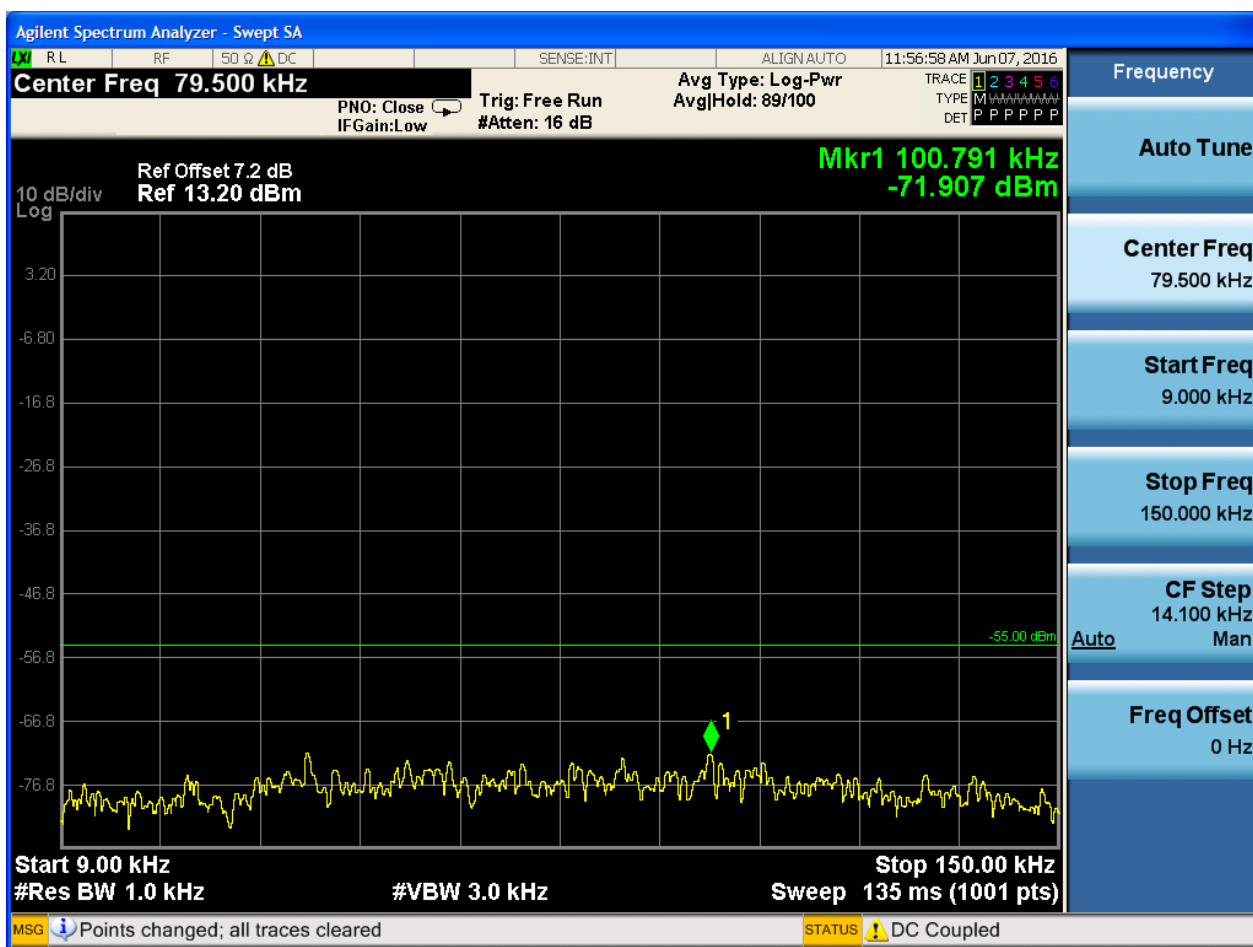




6.1.1.1.3 Test Bandwidth = 15

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



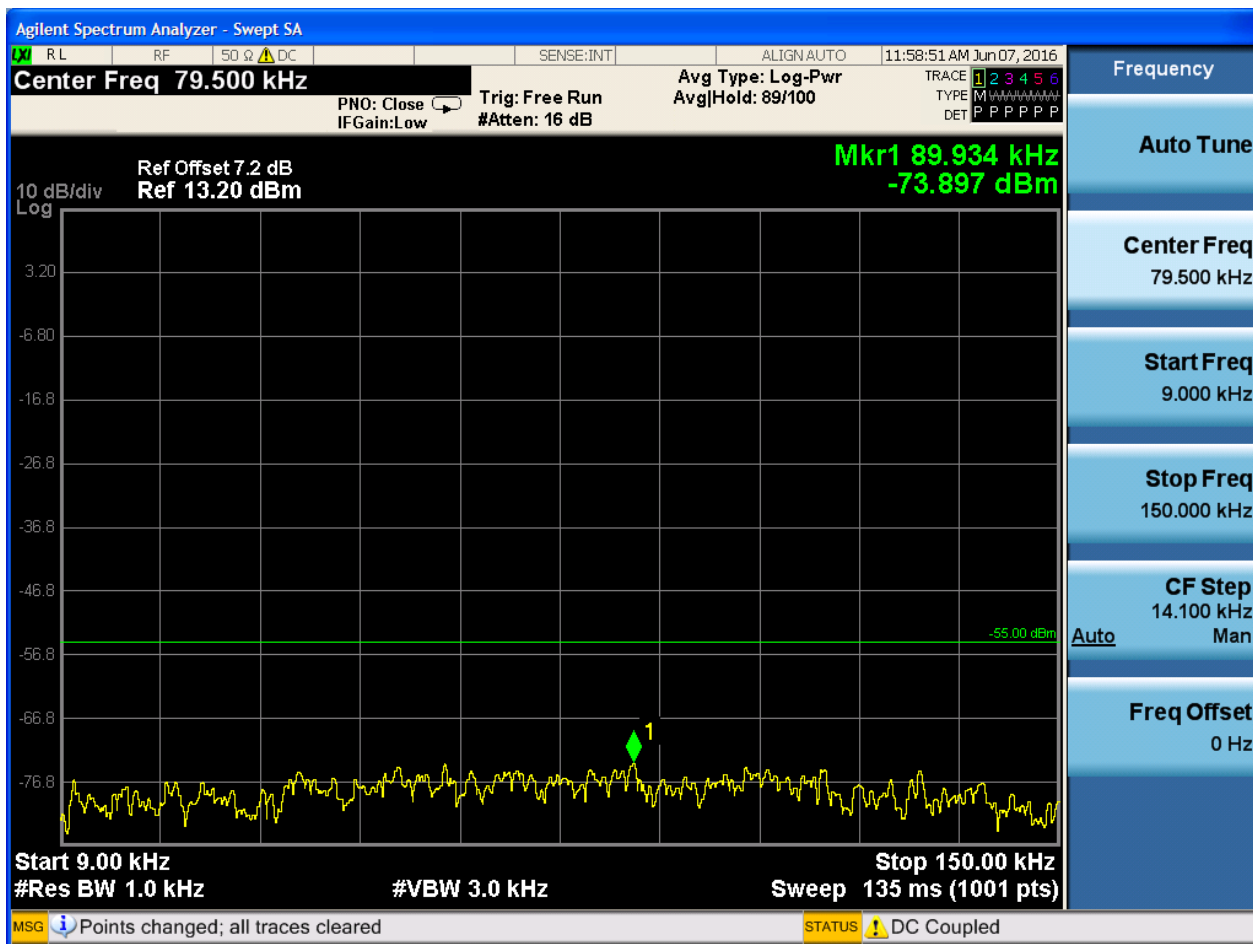


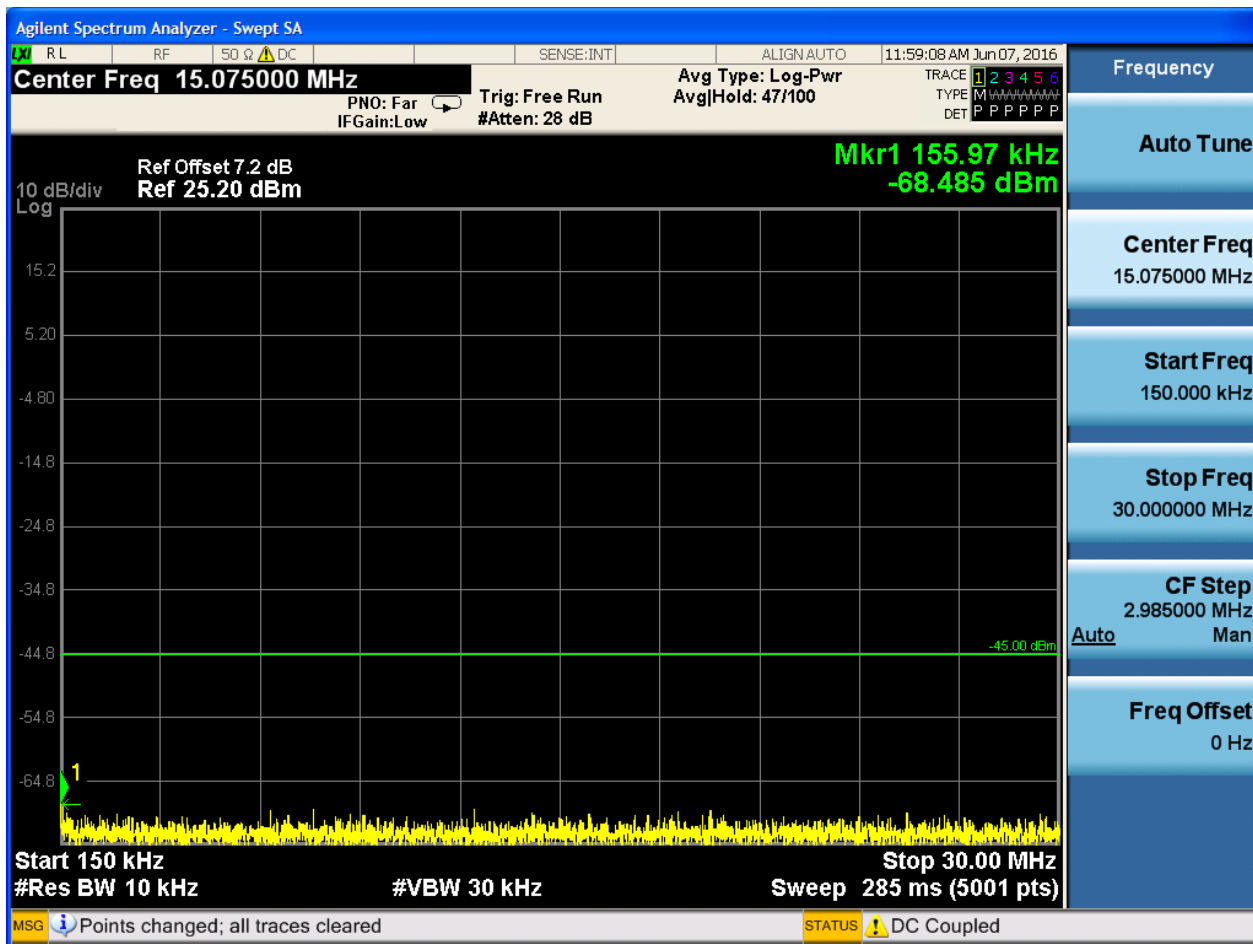




6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



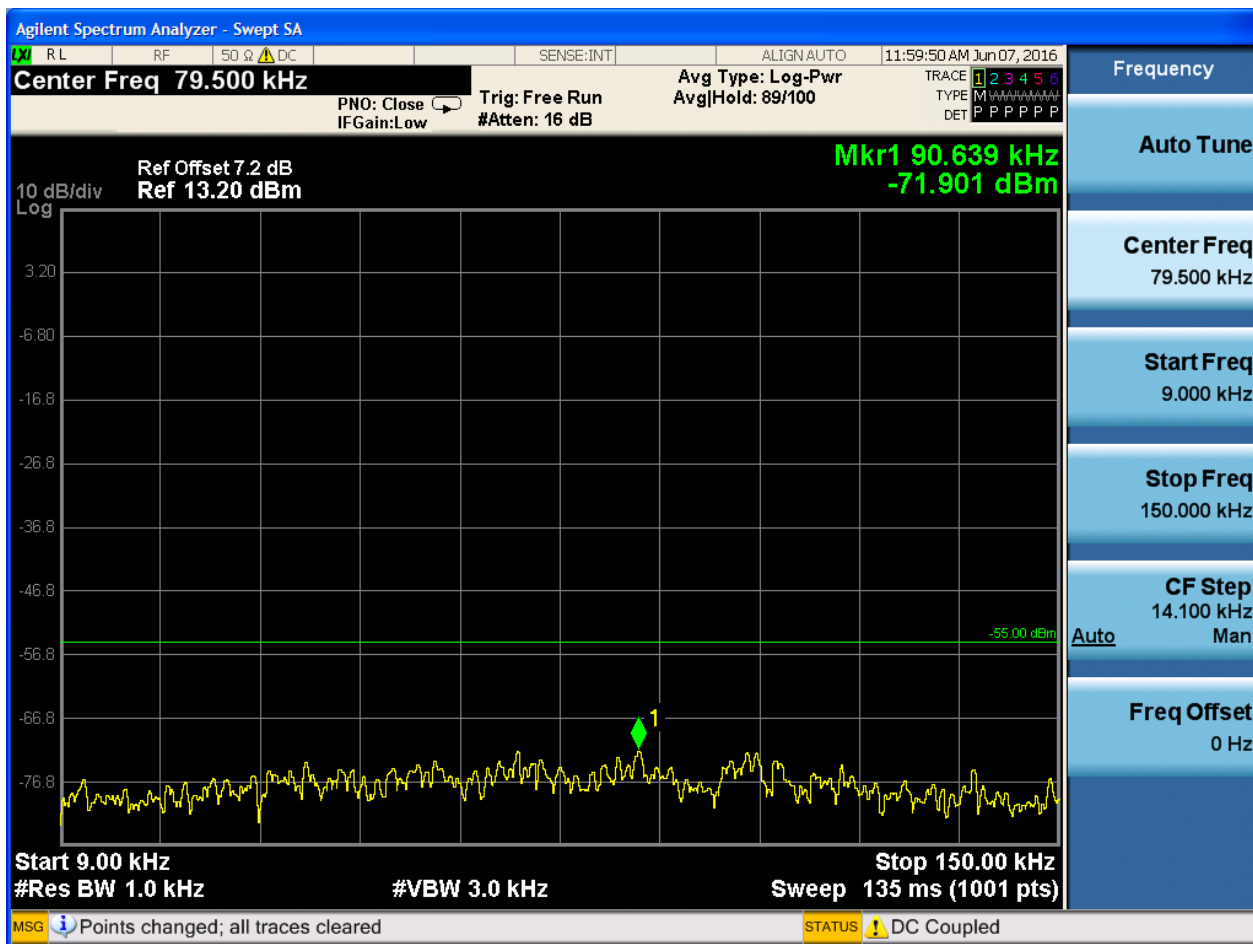


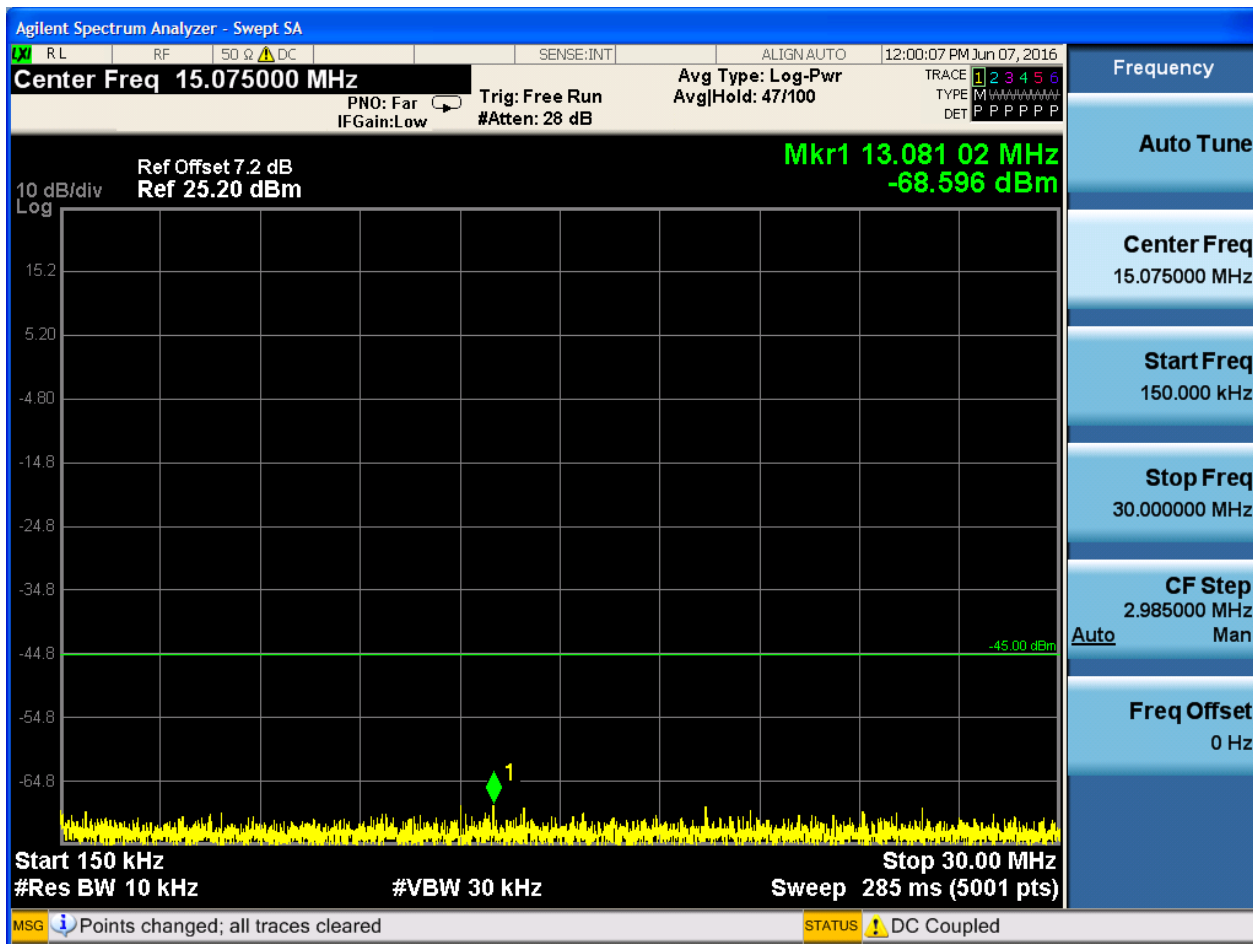


6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



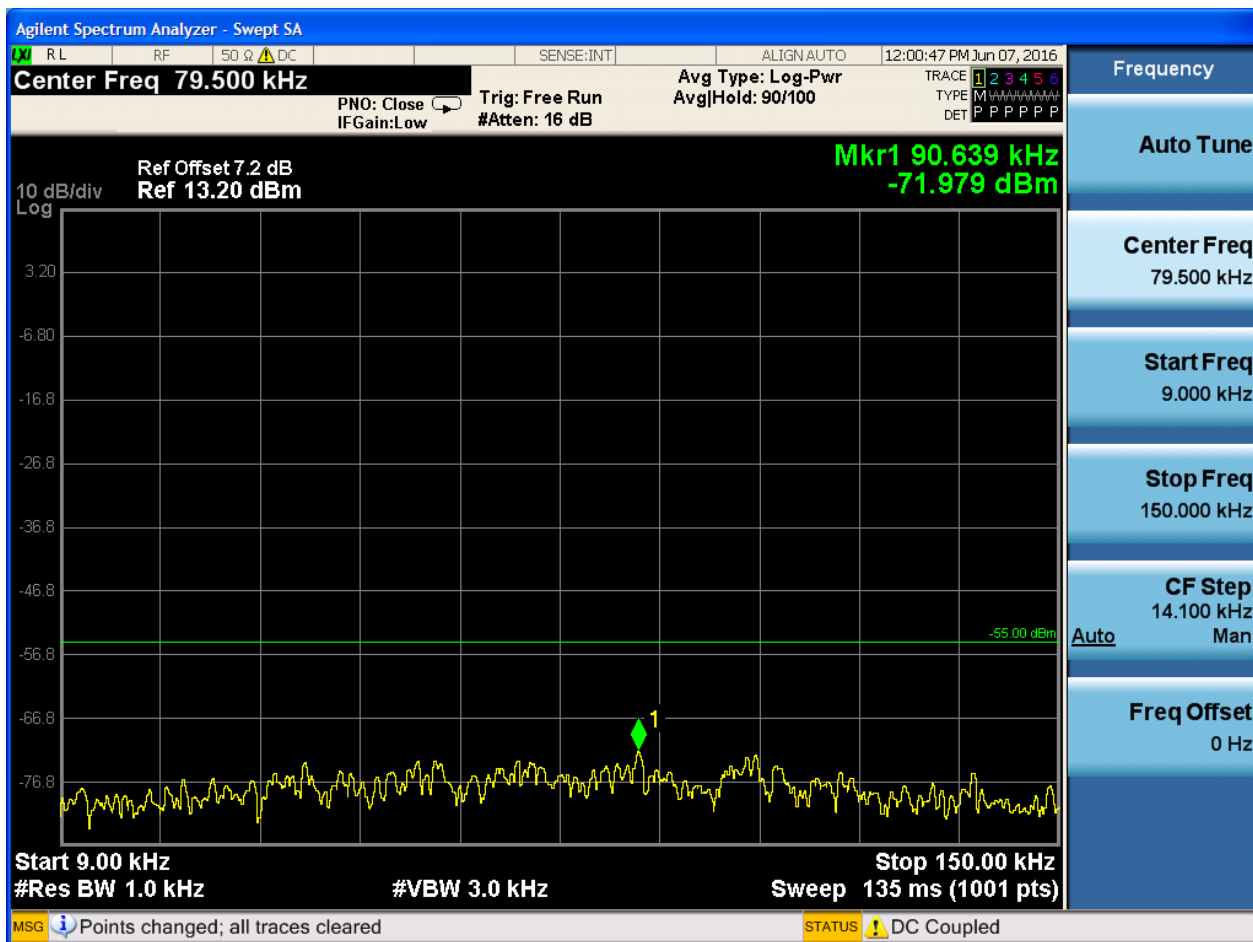


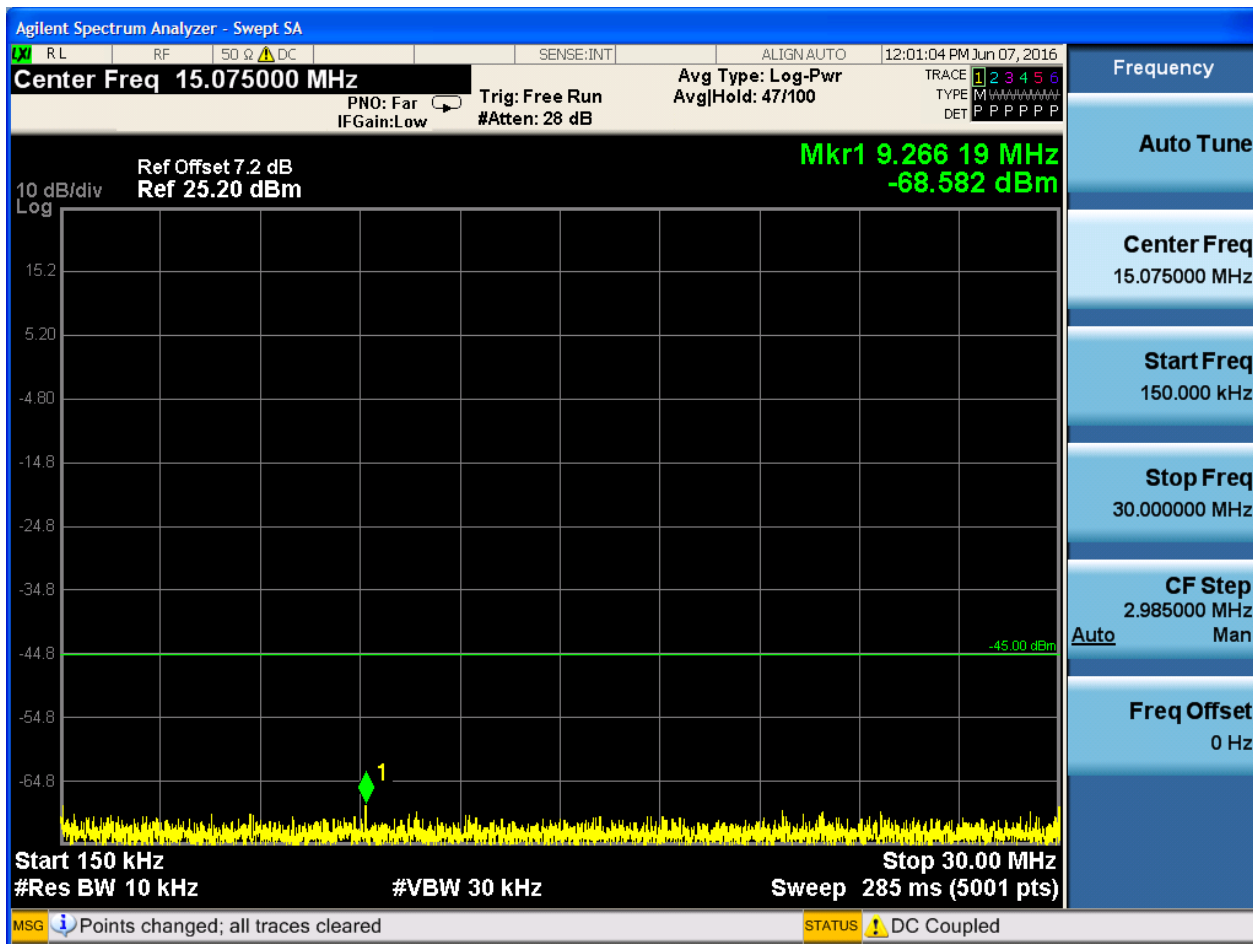




6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

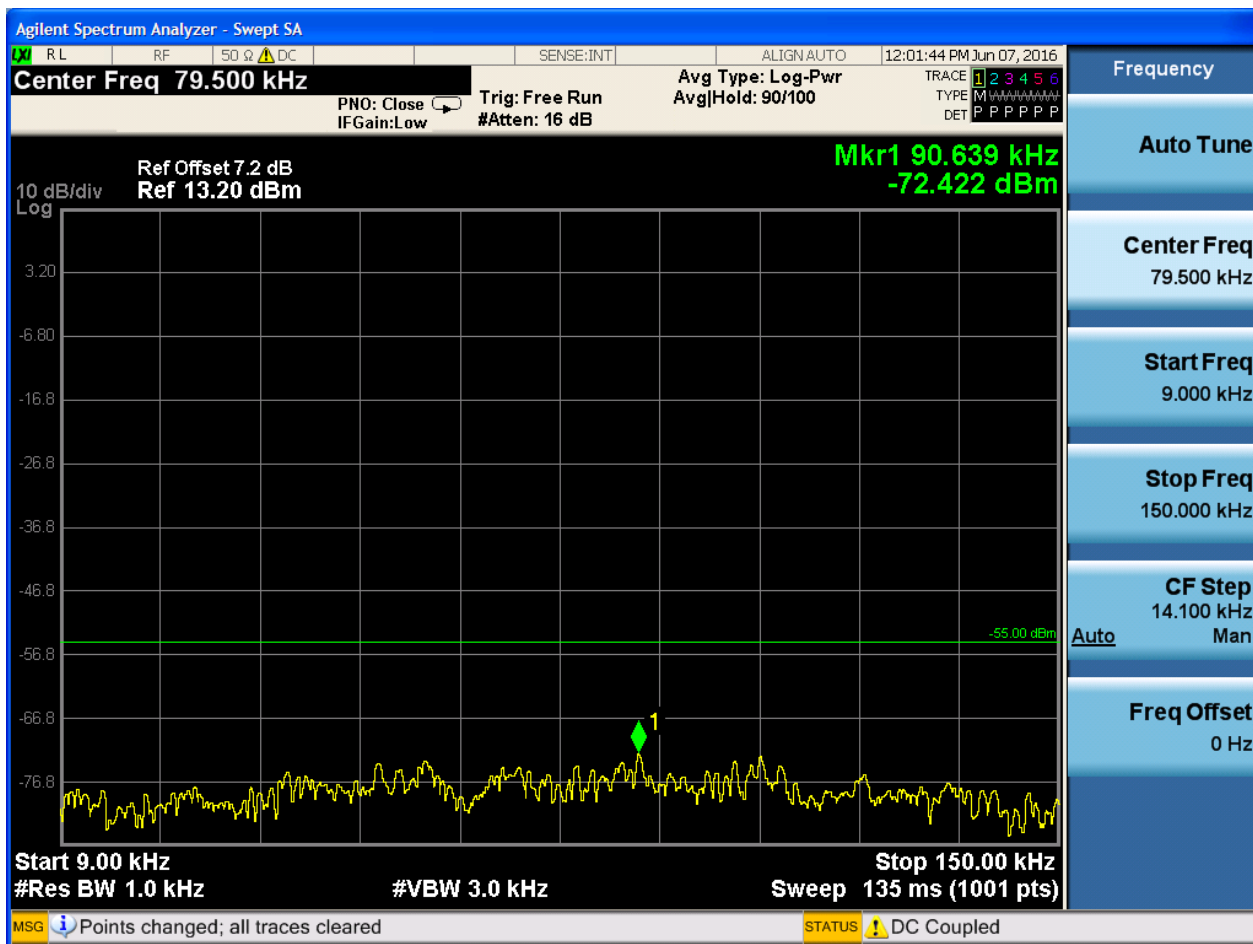


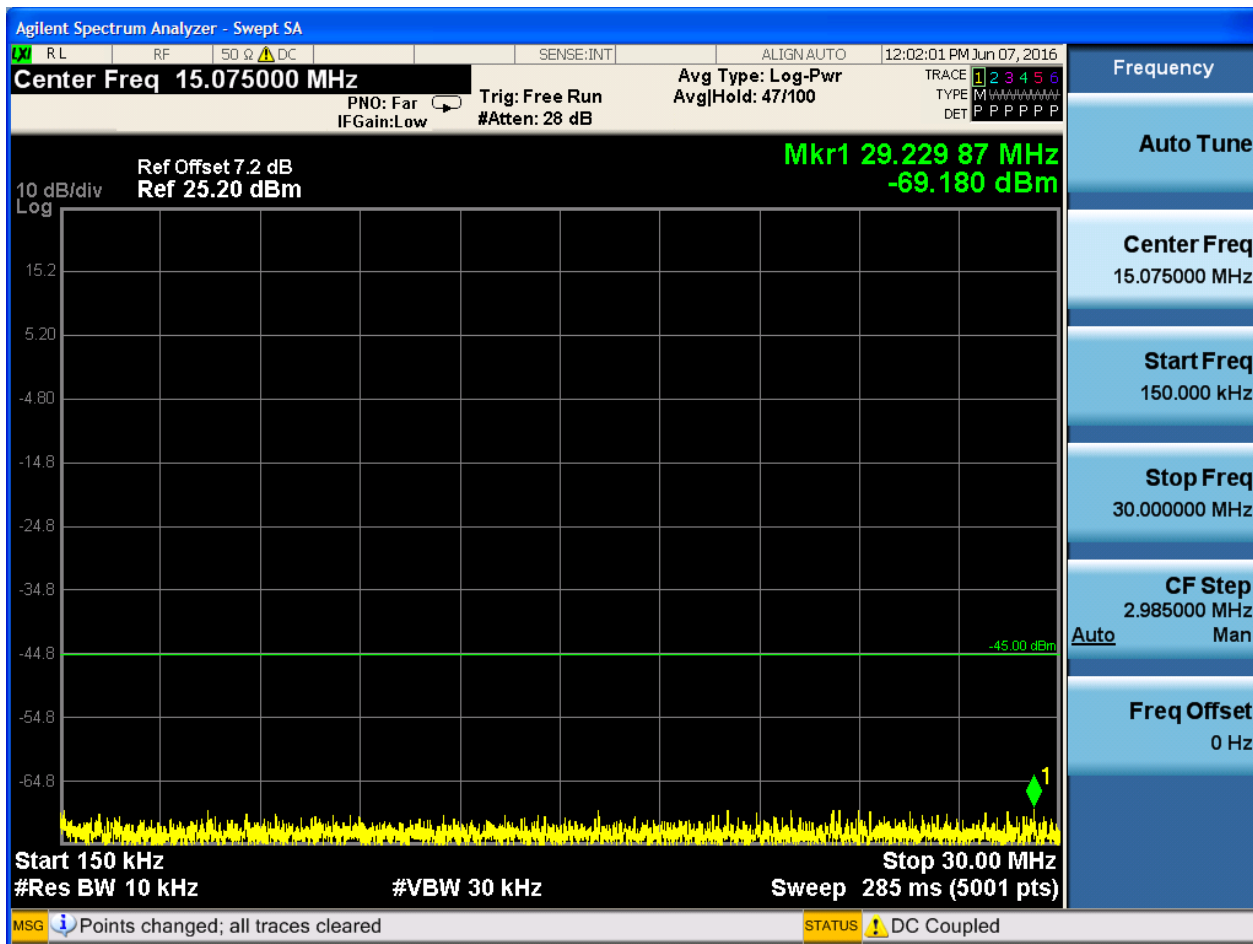




6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0





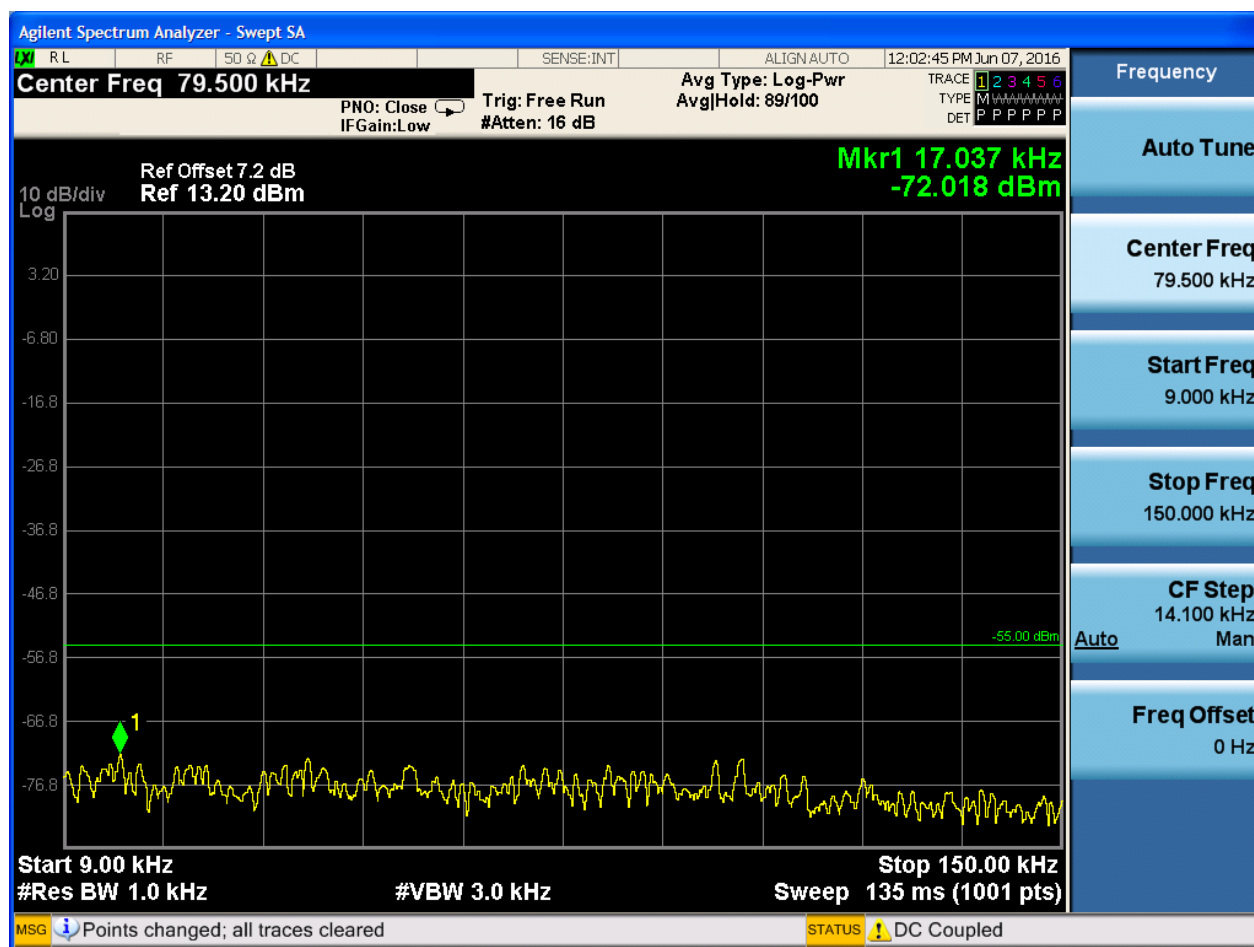


6.1.1.2 Test Mode = LTE/TM2

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



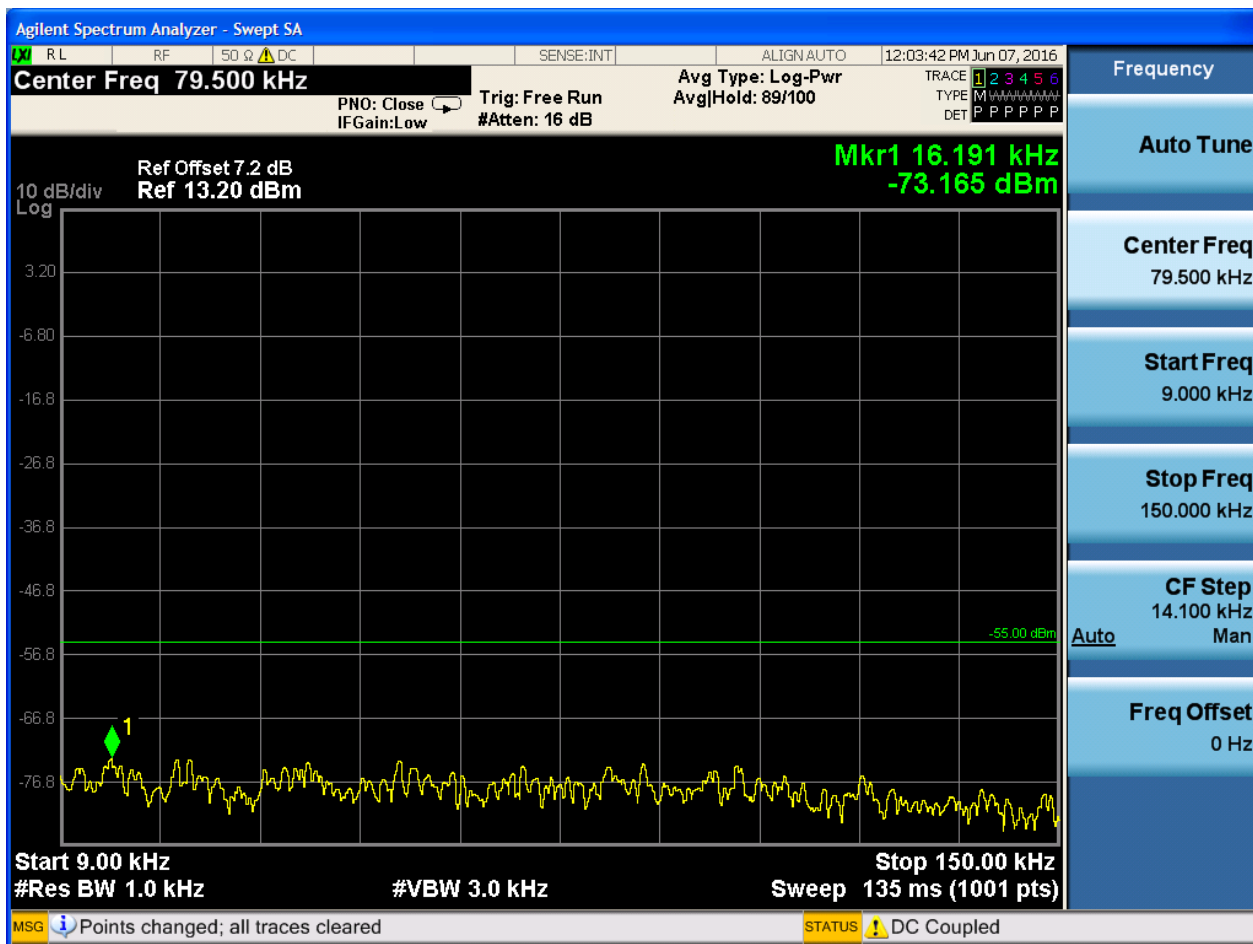


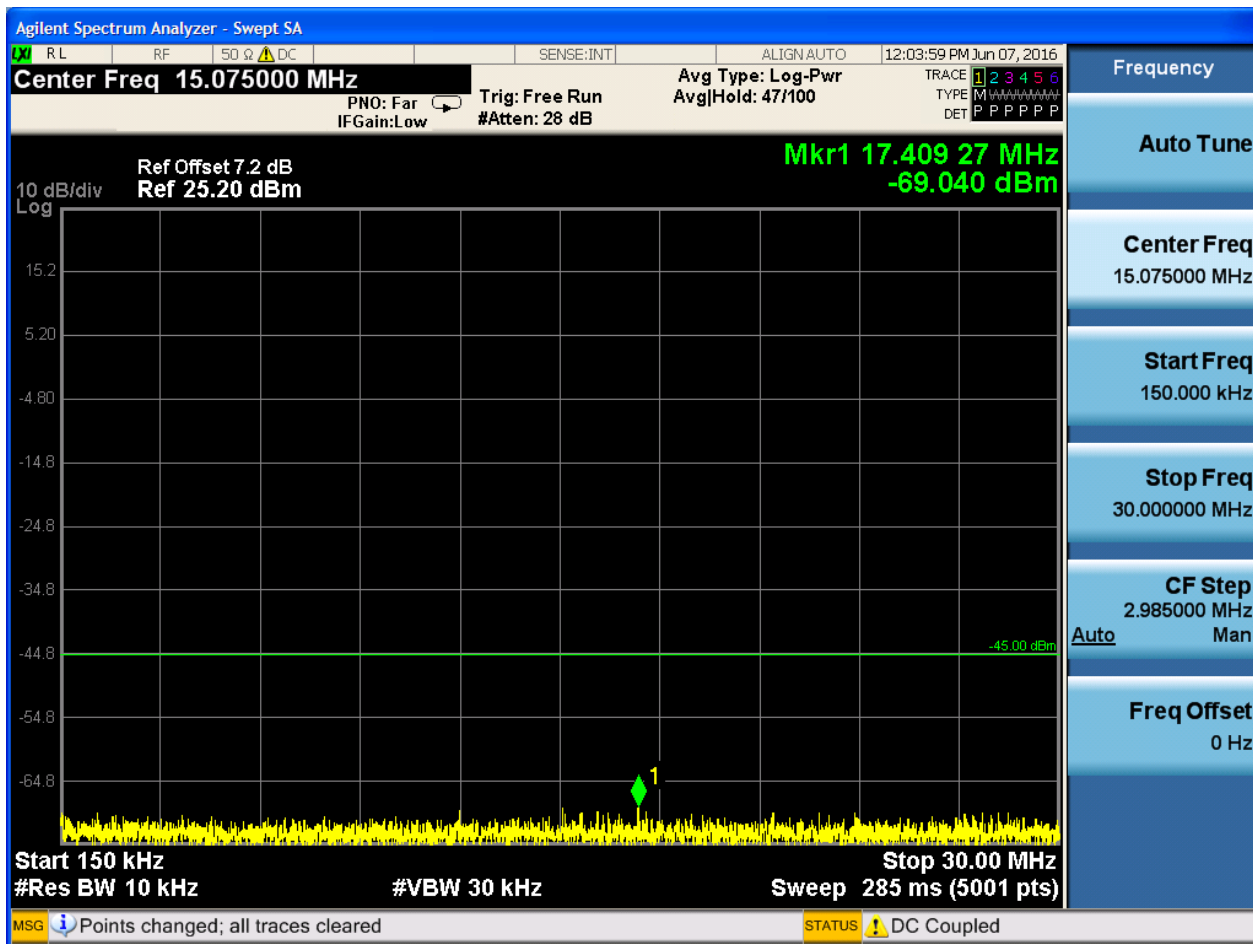




6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



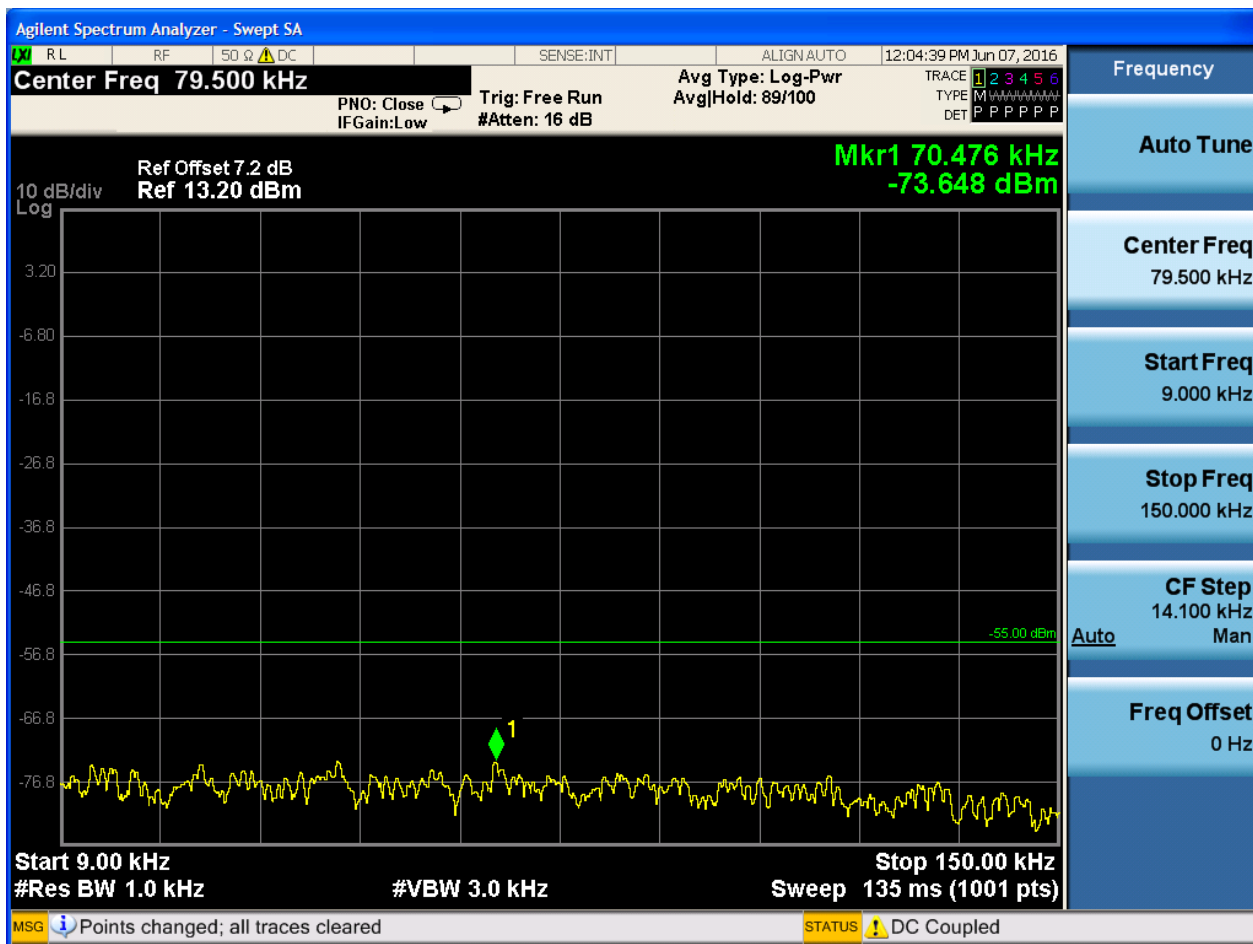


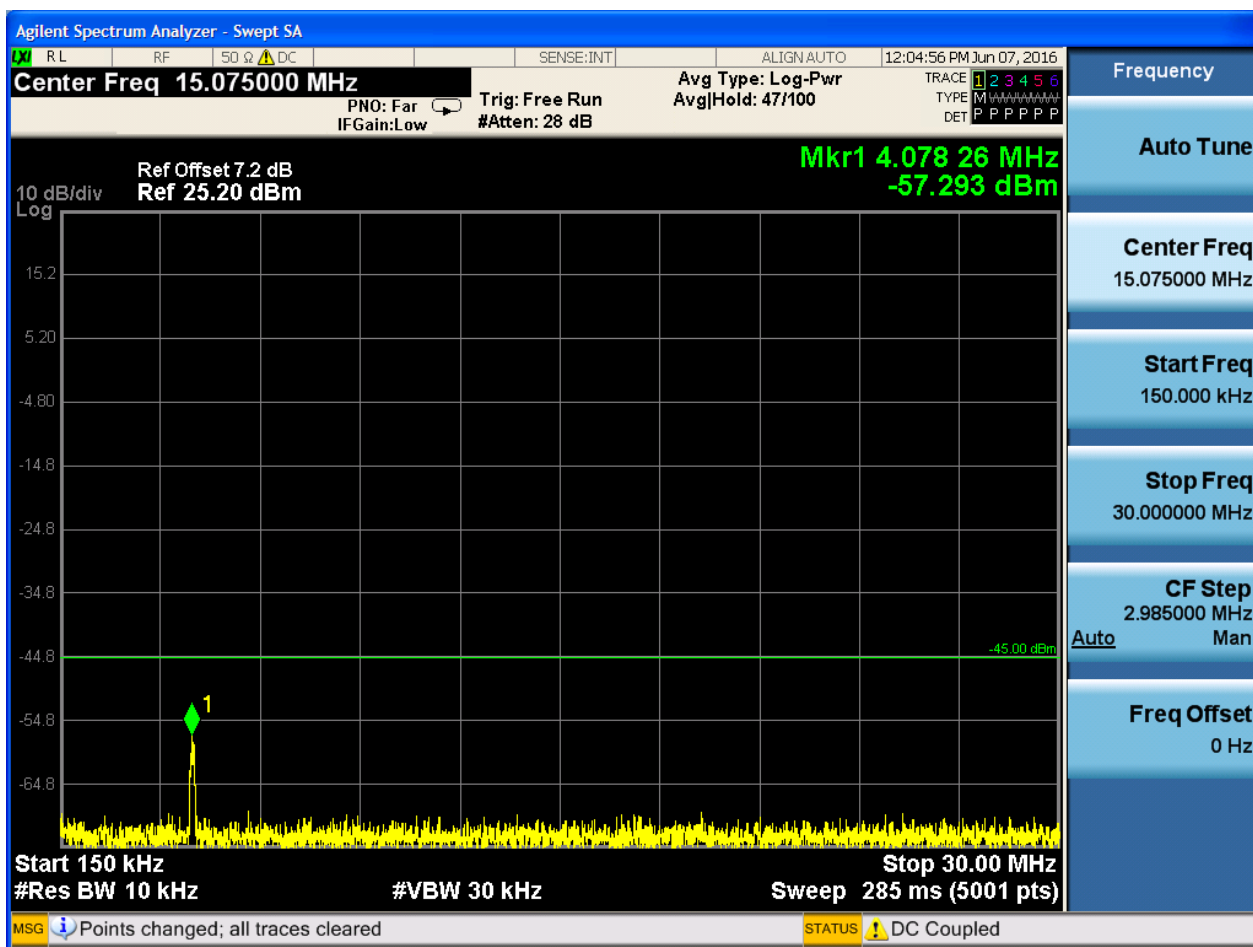




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



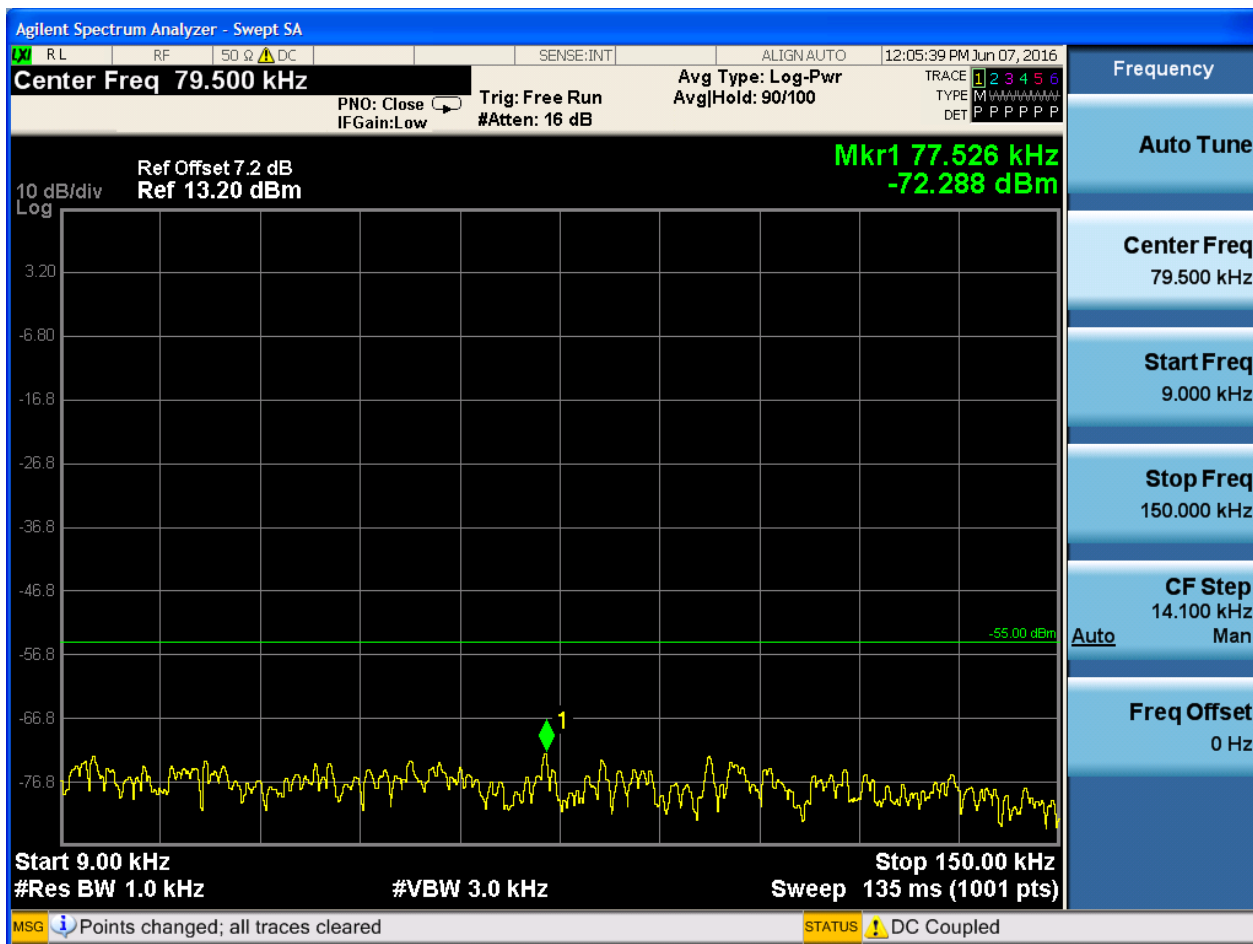




6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



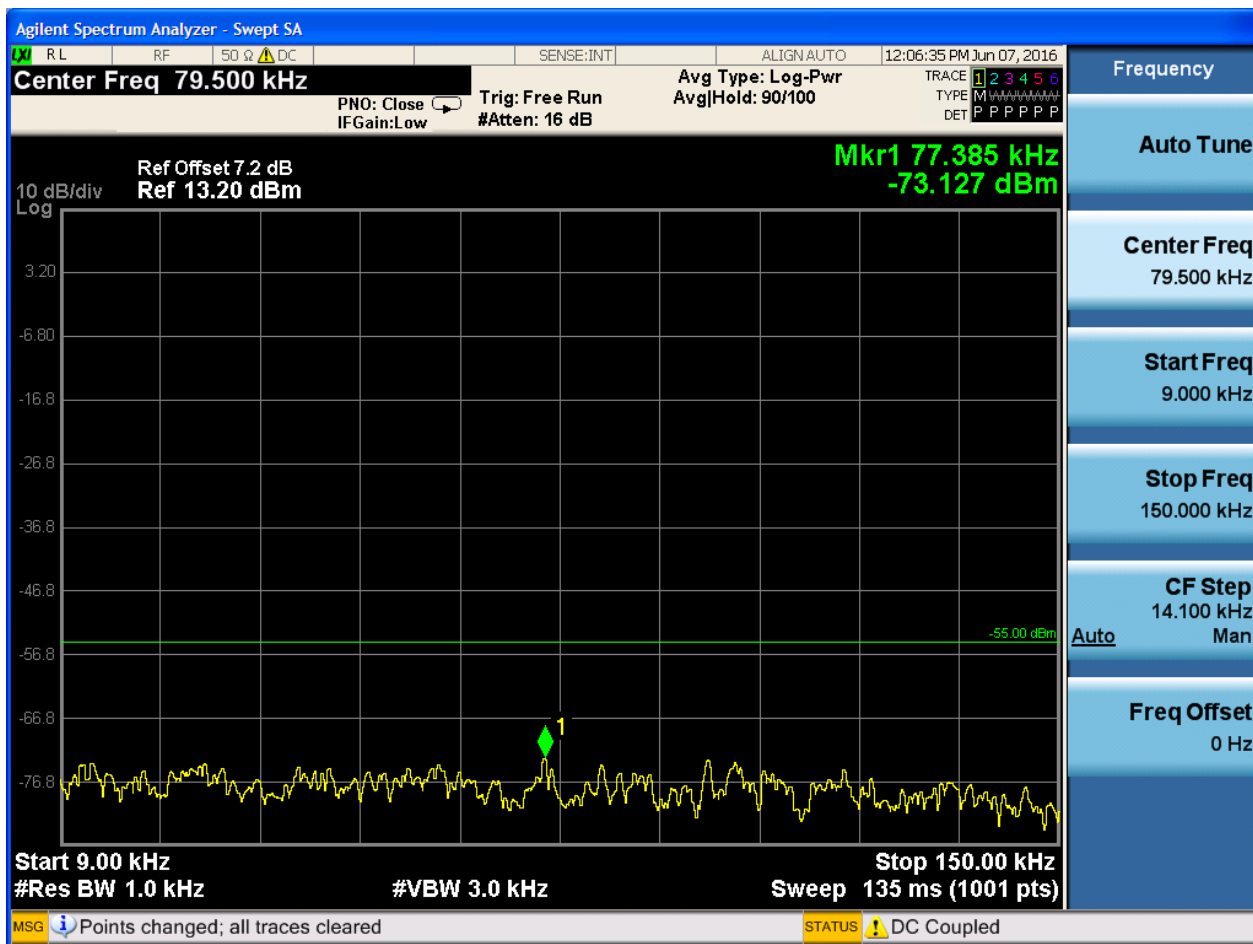


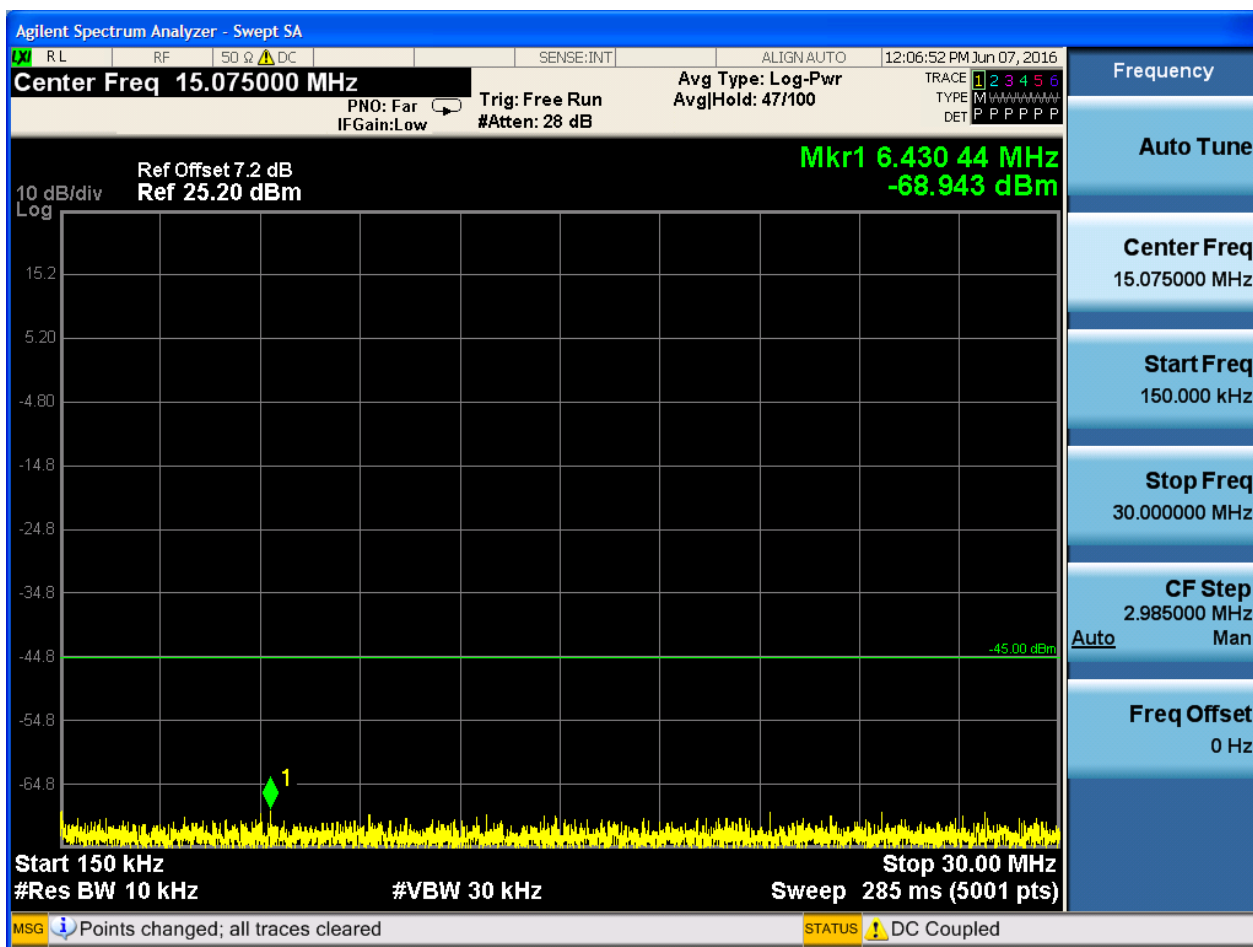




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



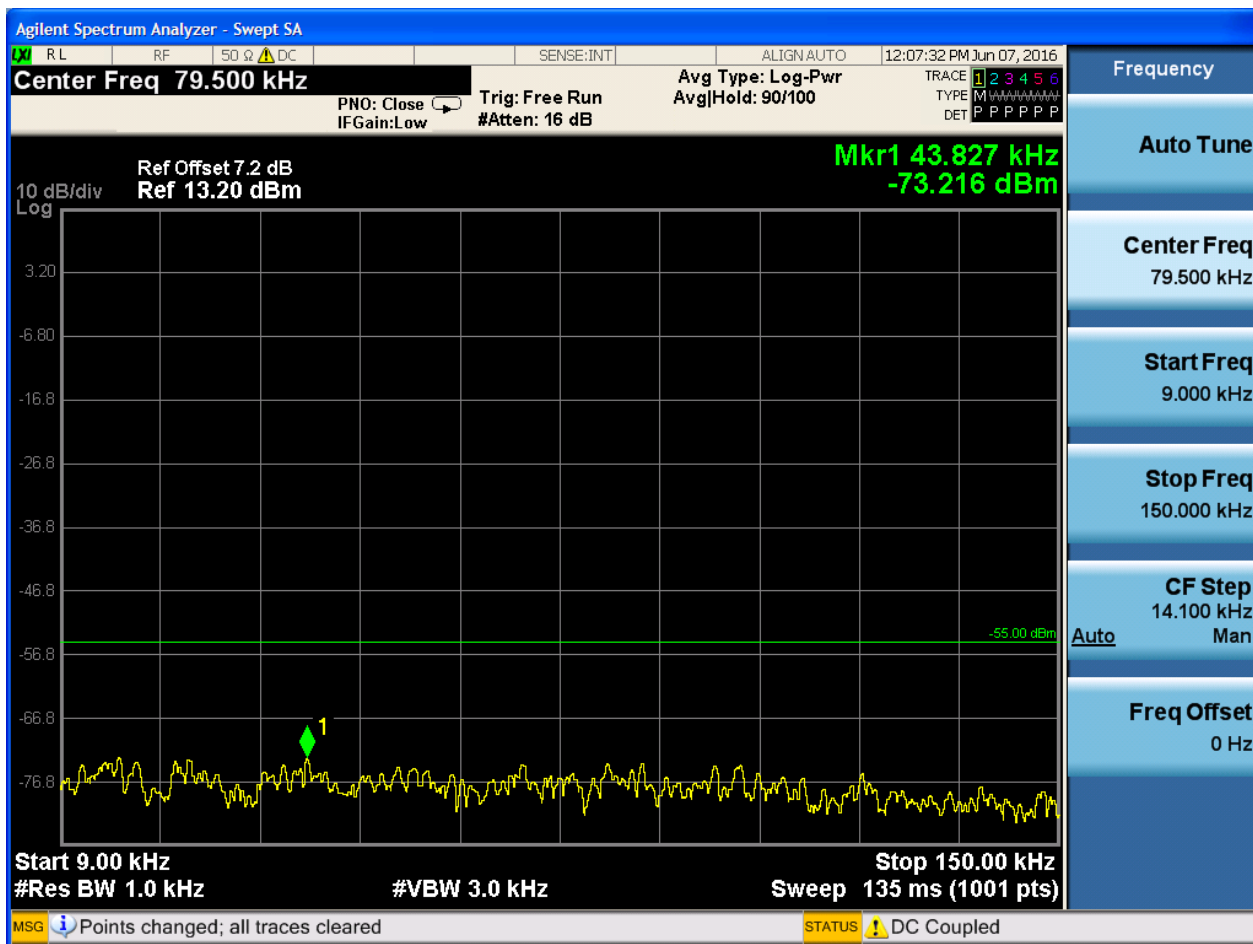






6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





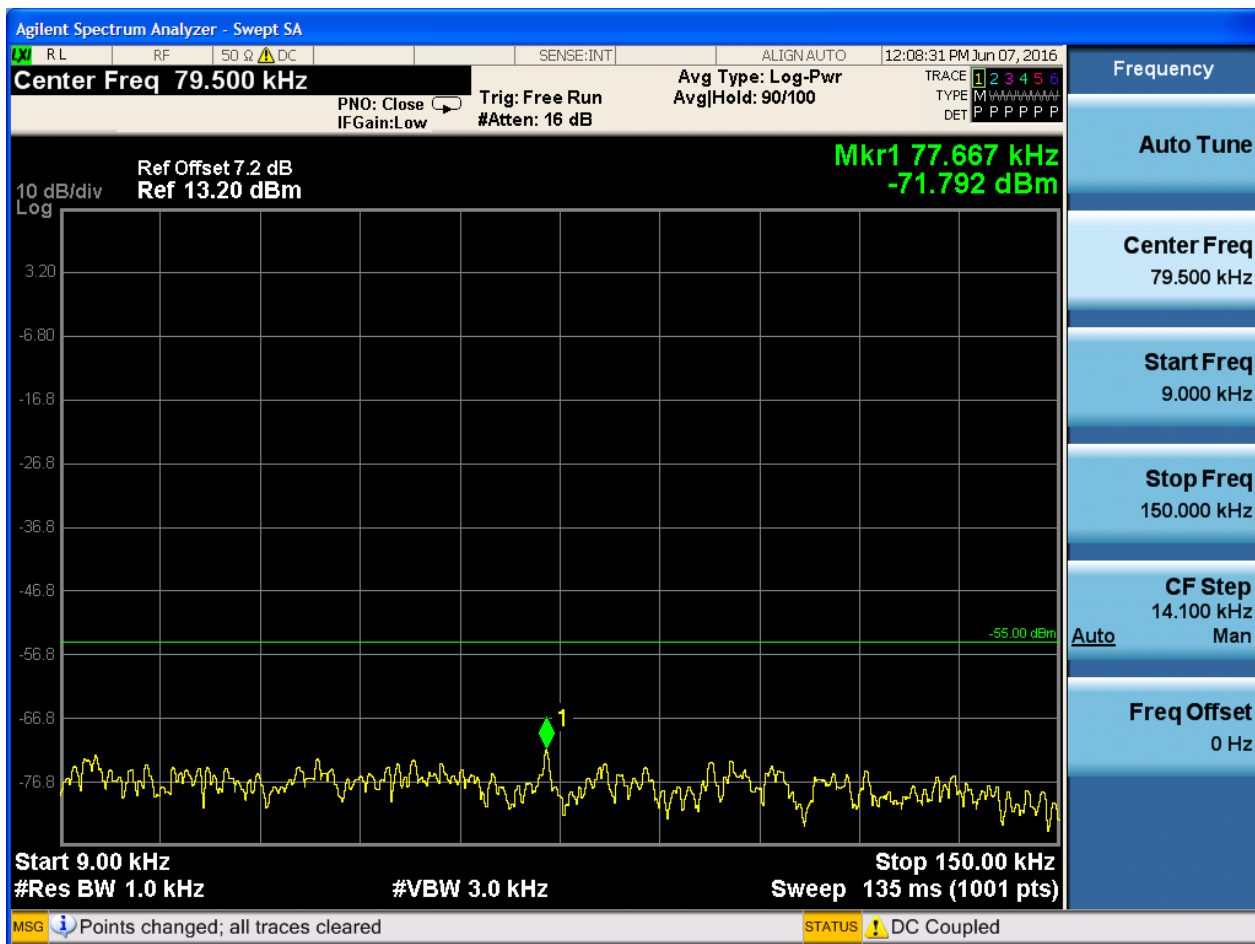


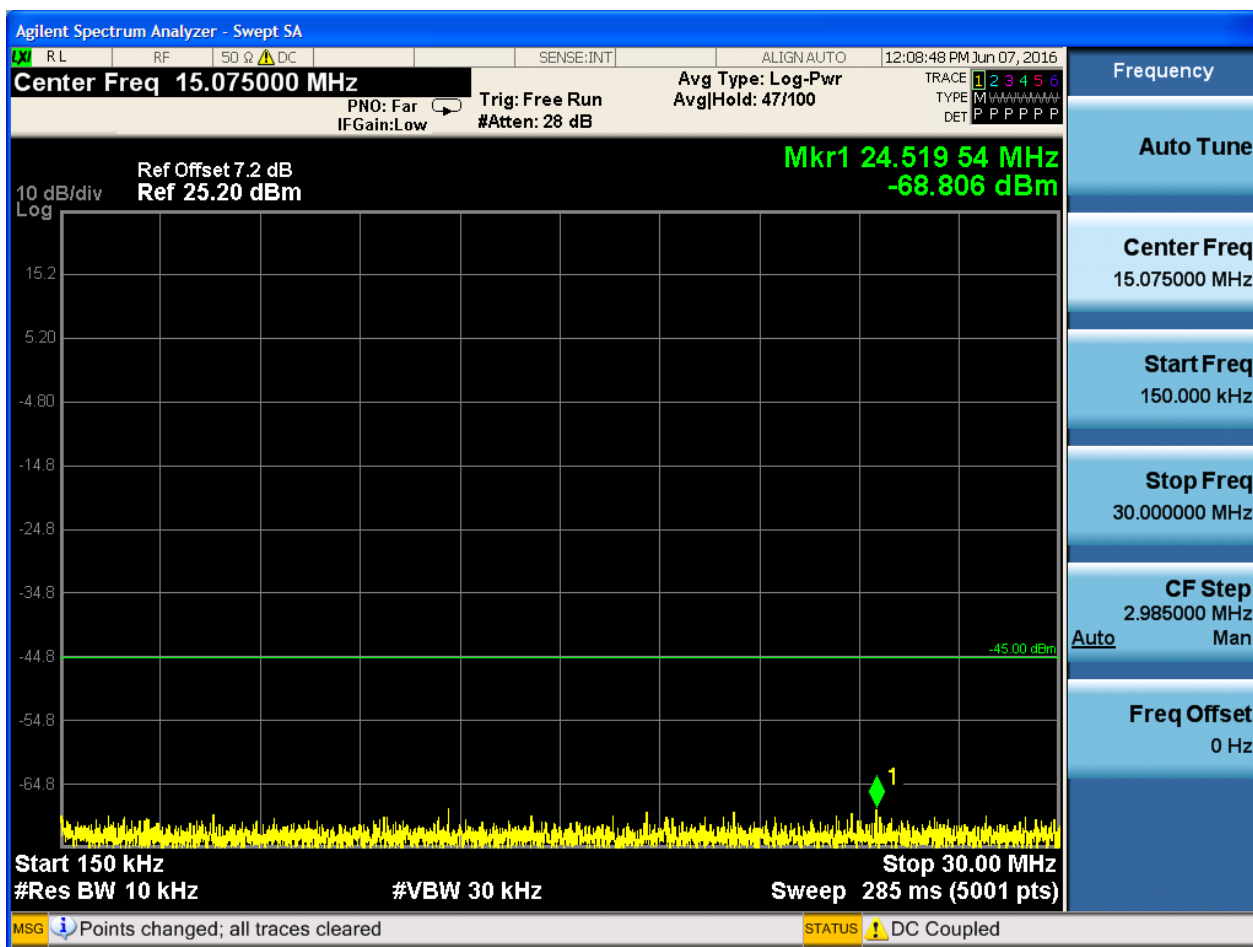


6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



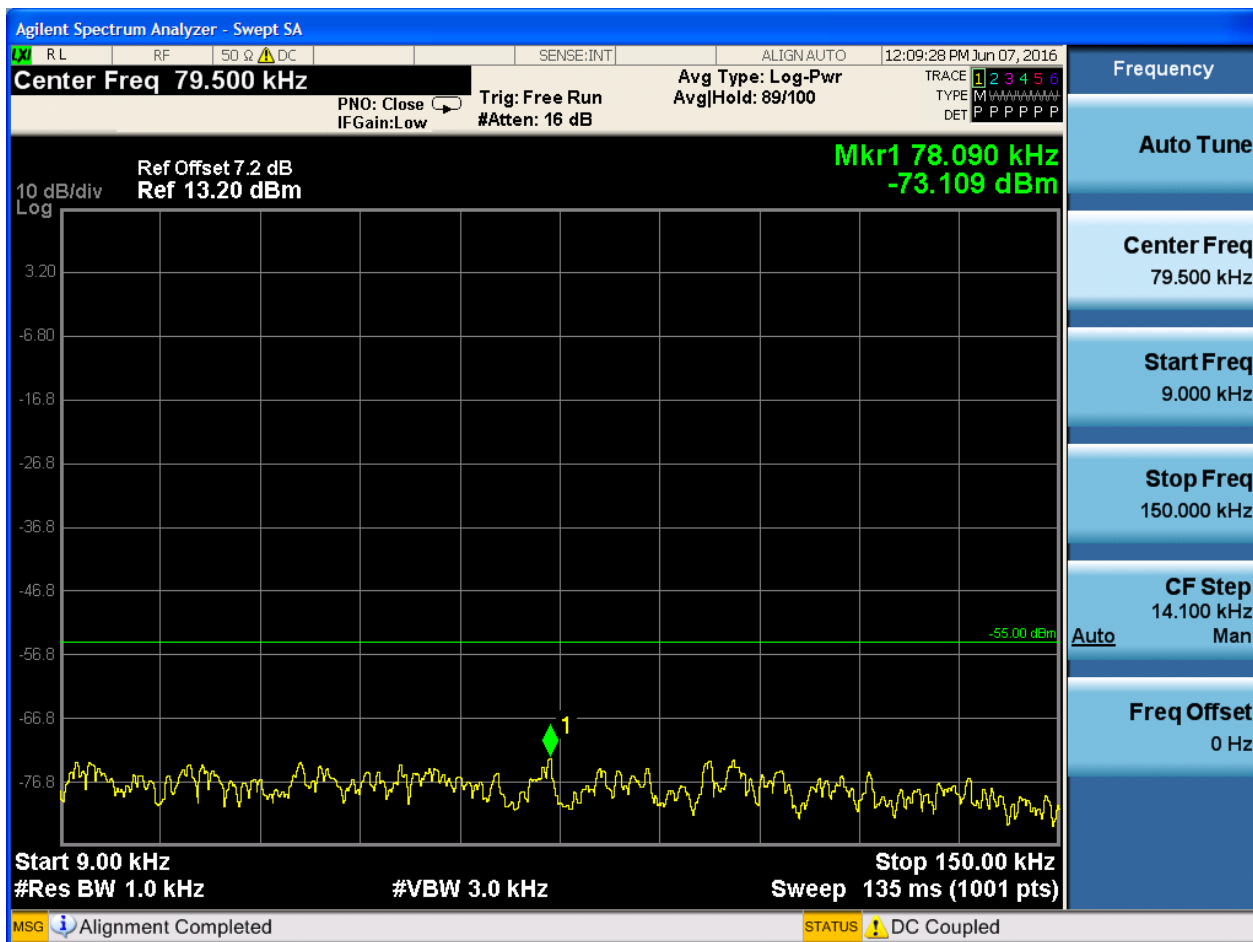


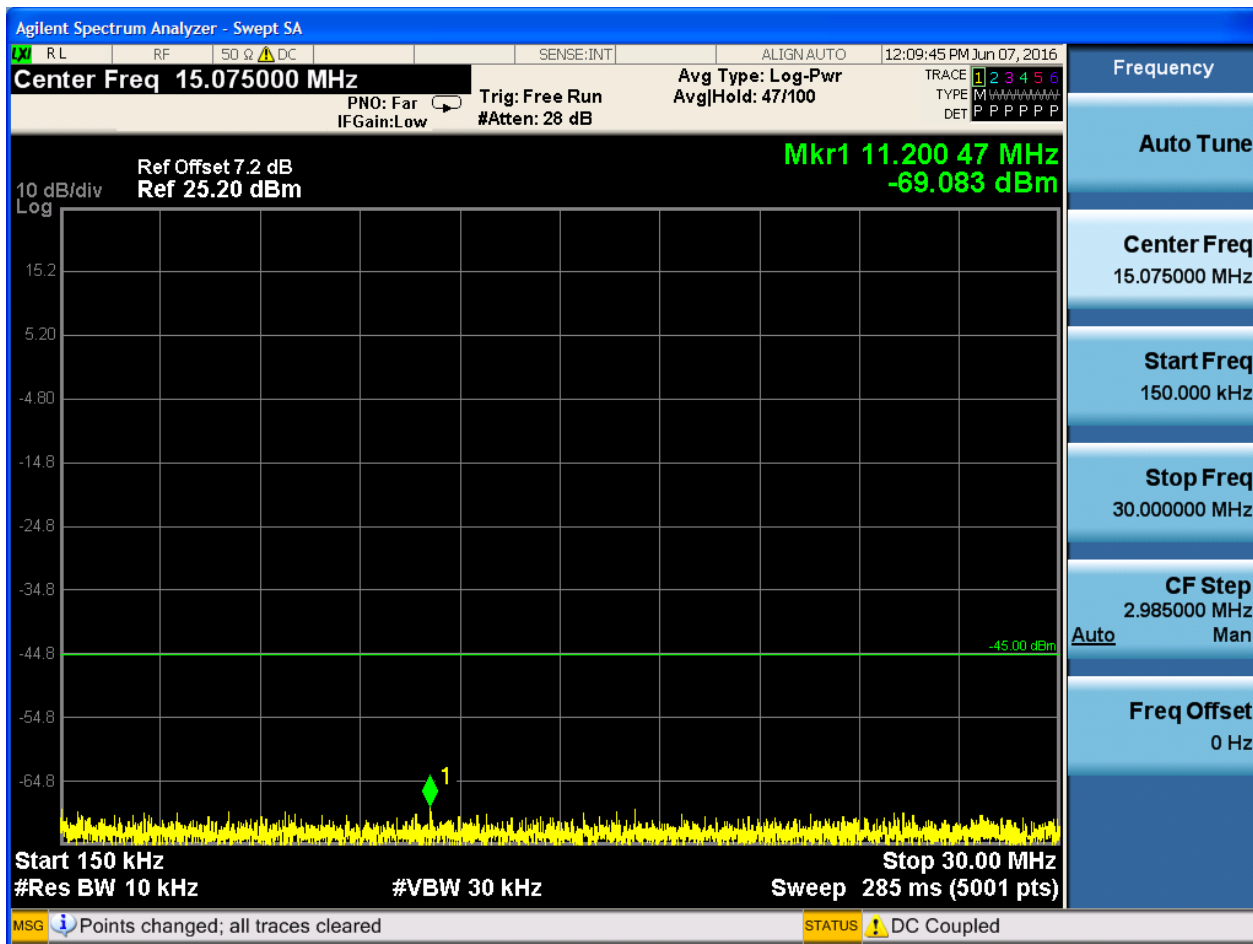




6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

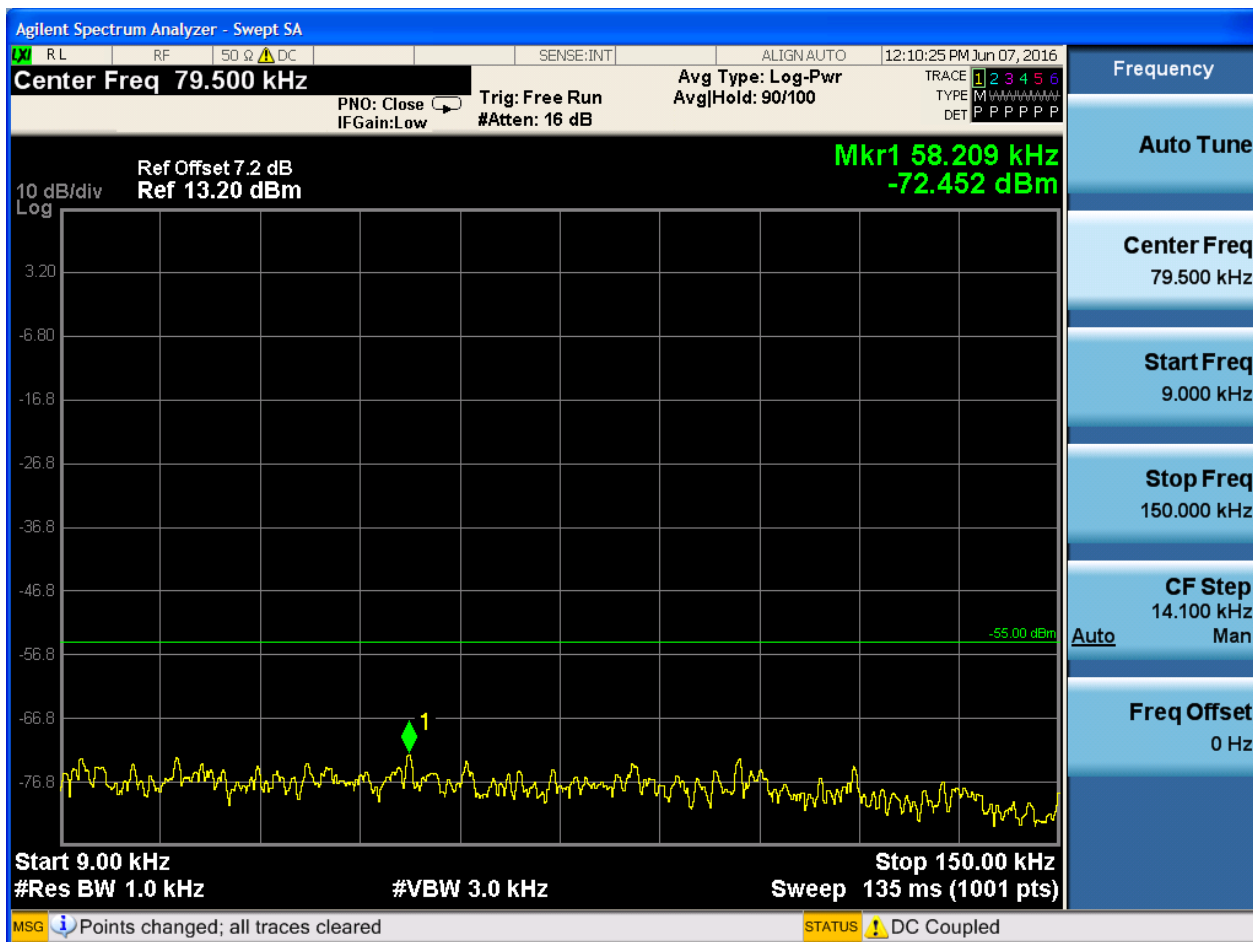


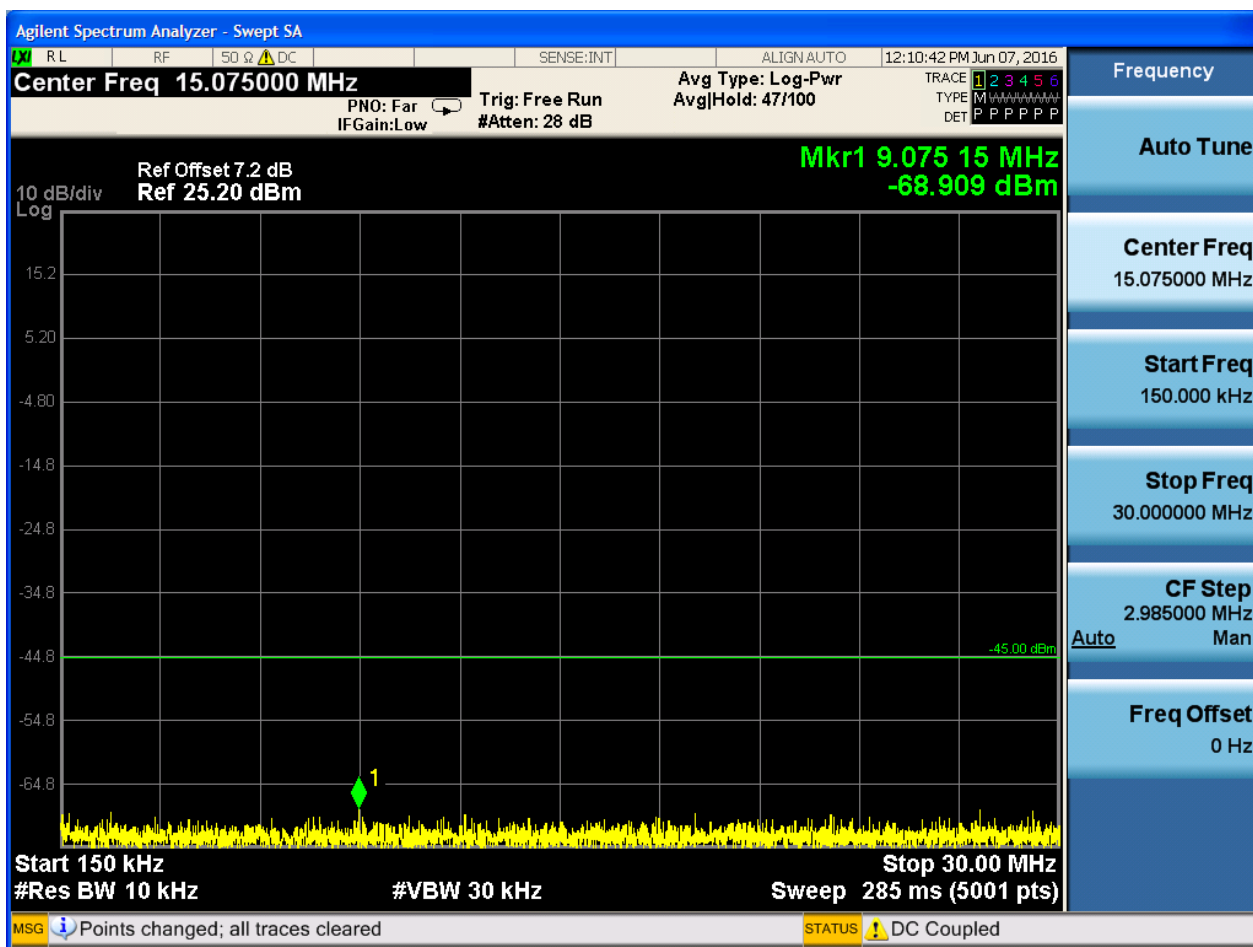




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



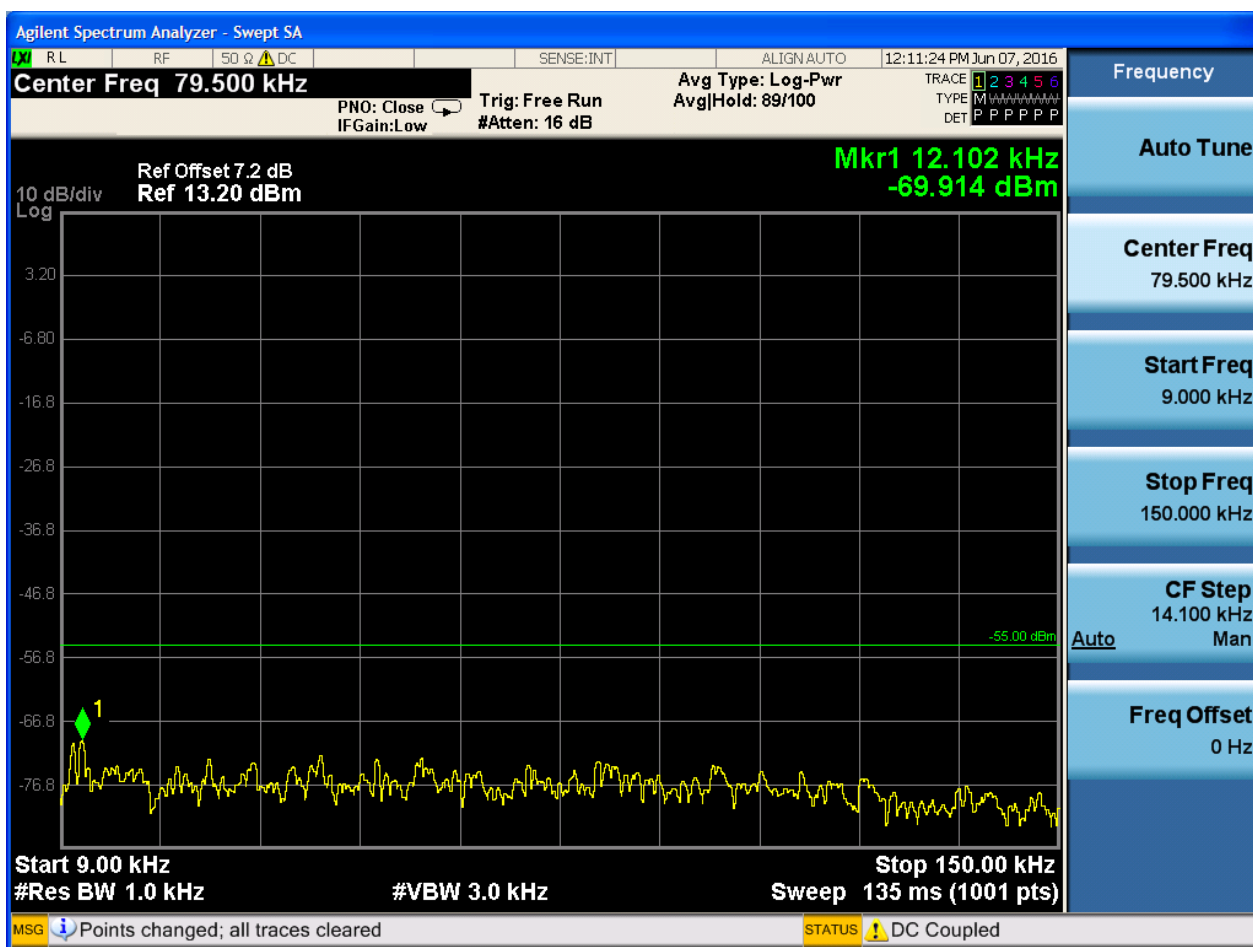


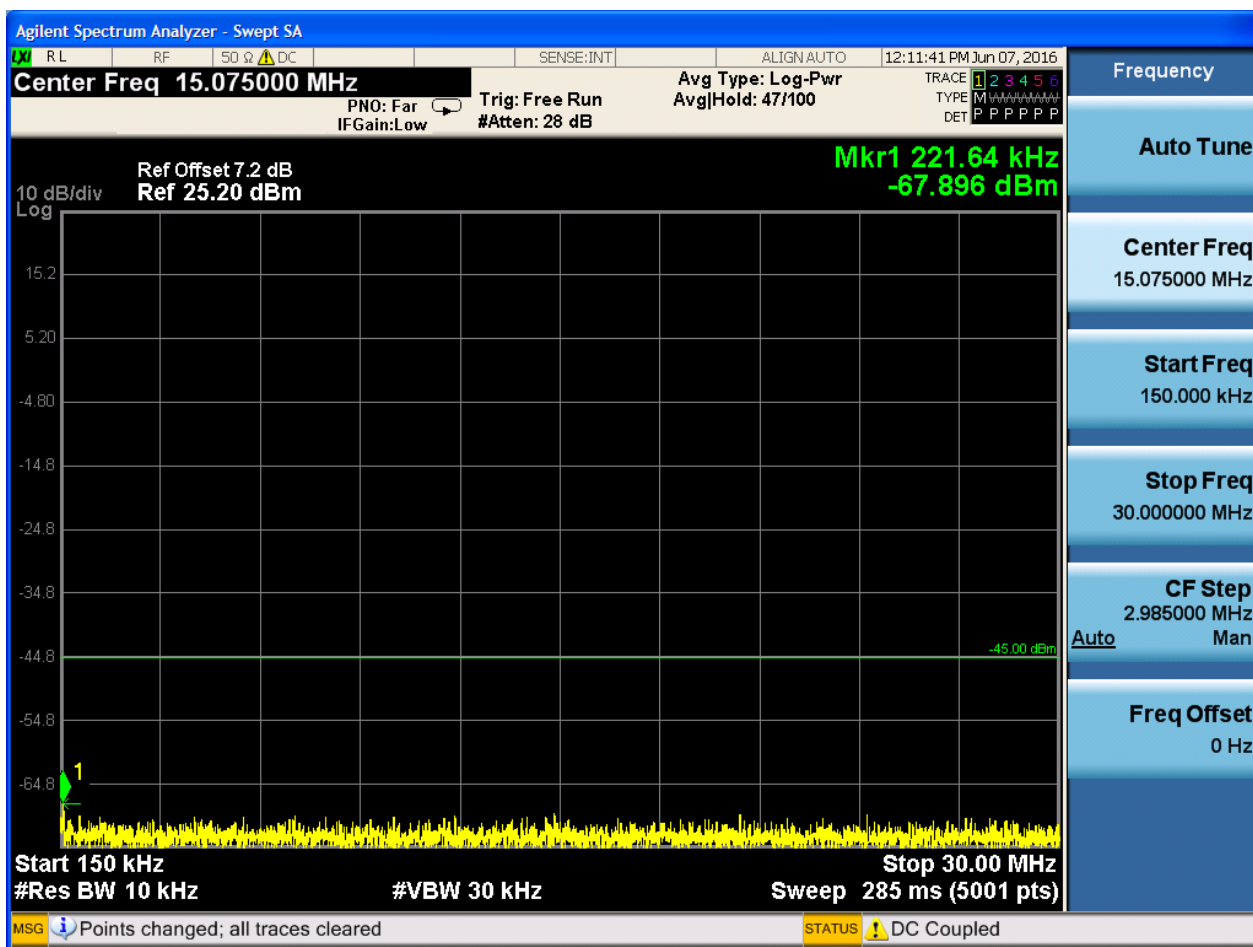


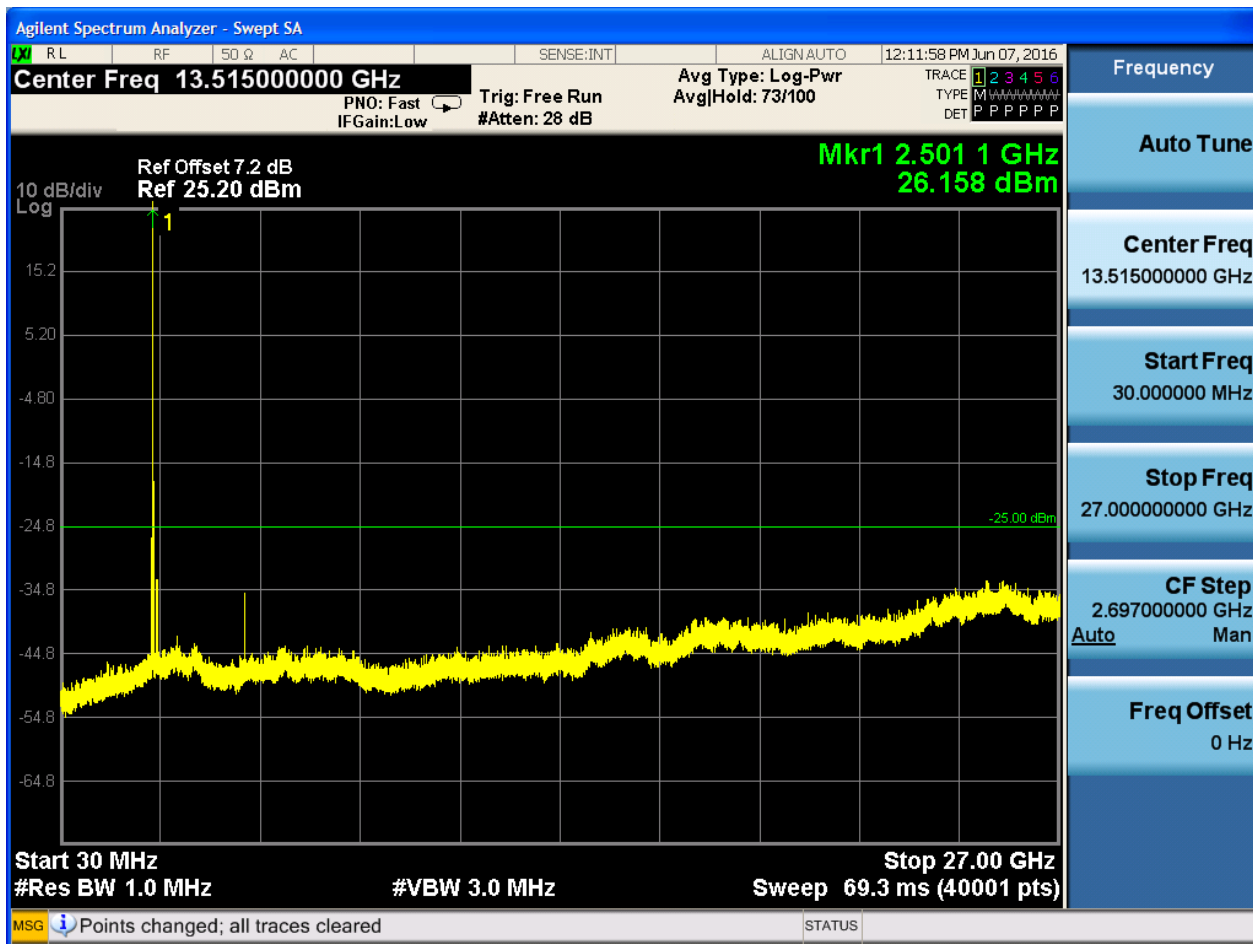
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

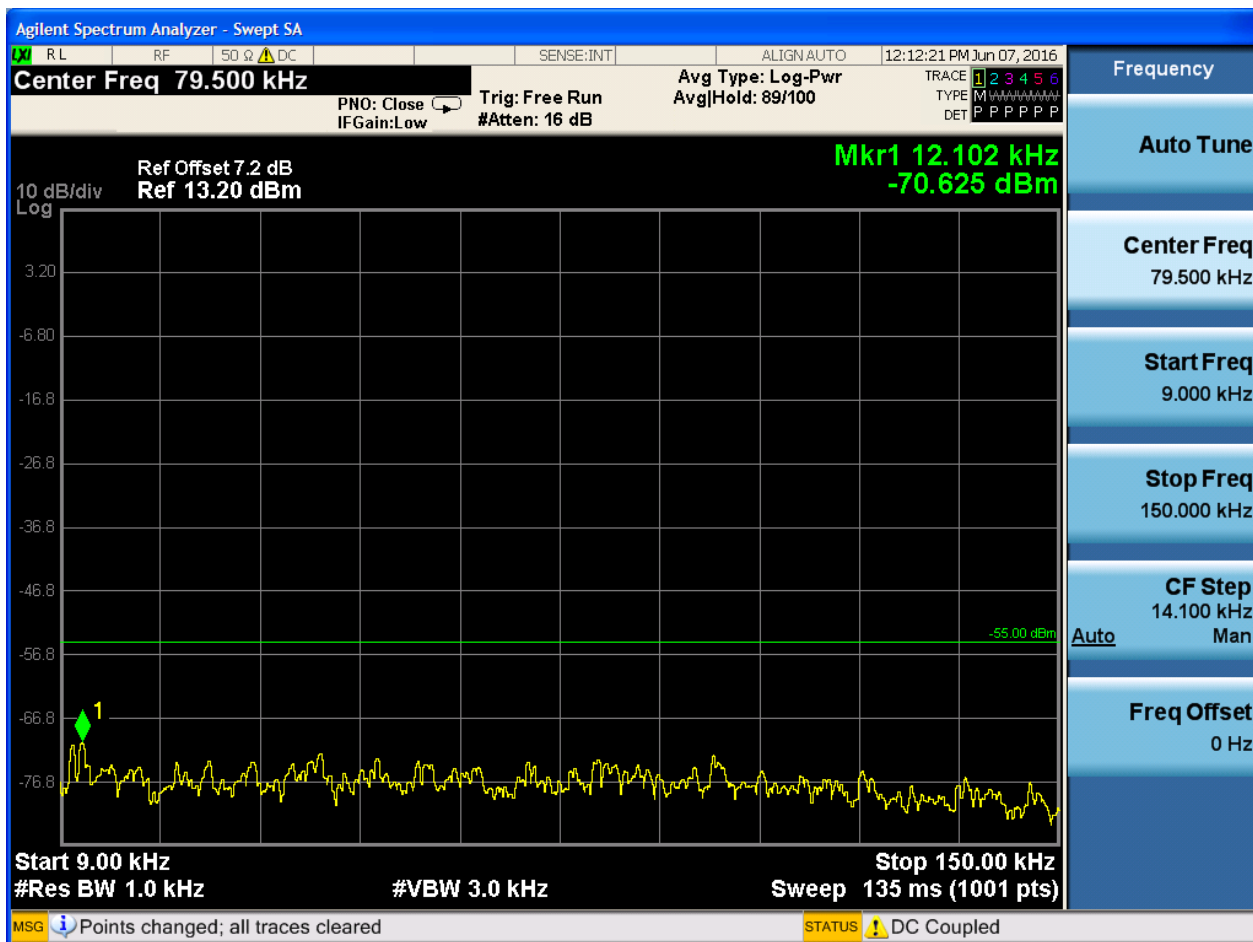


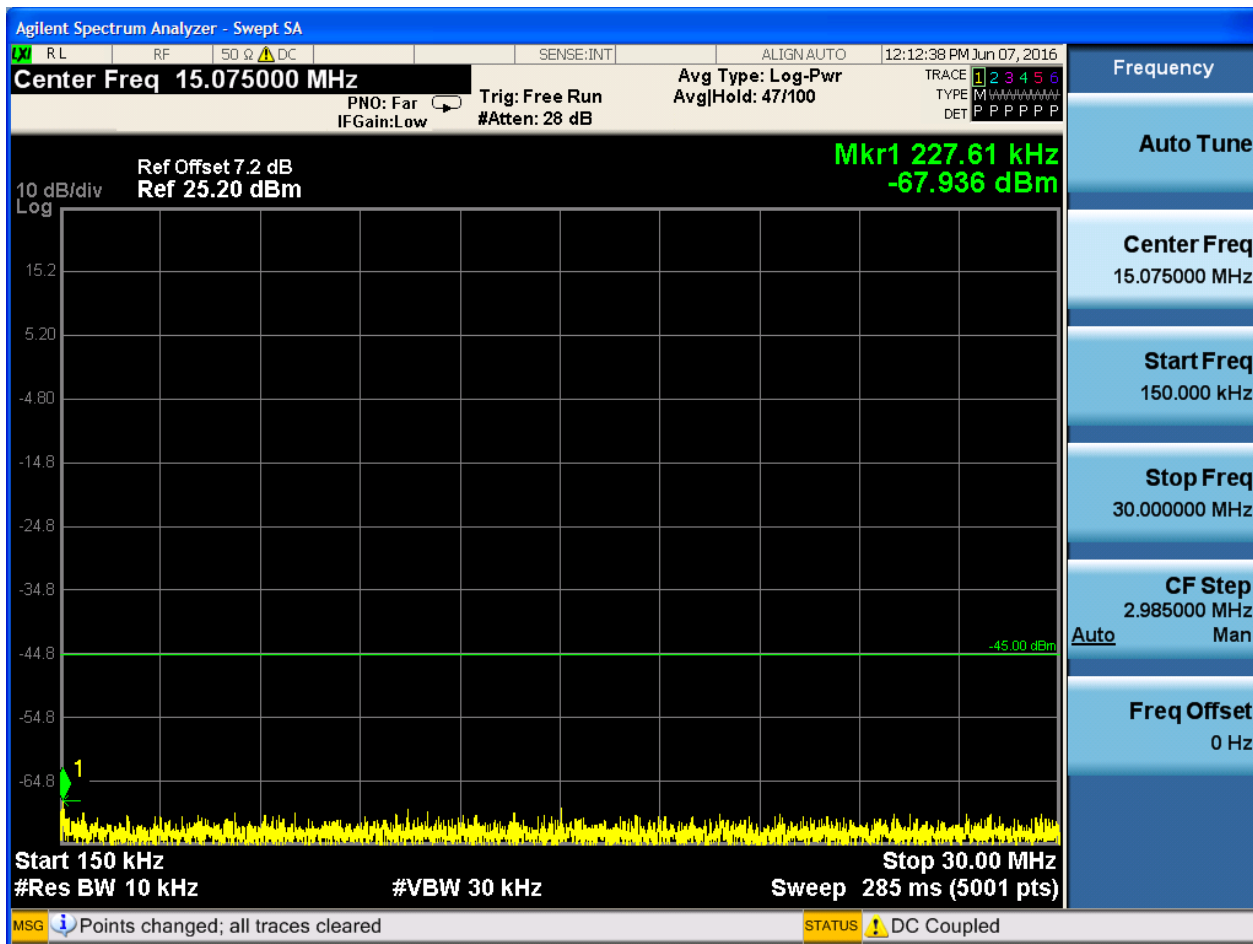




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

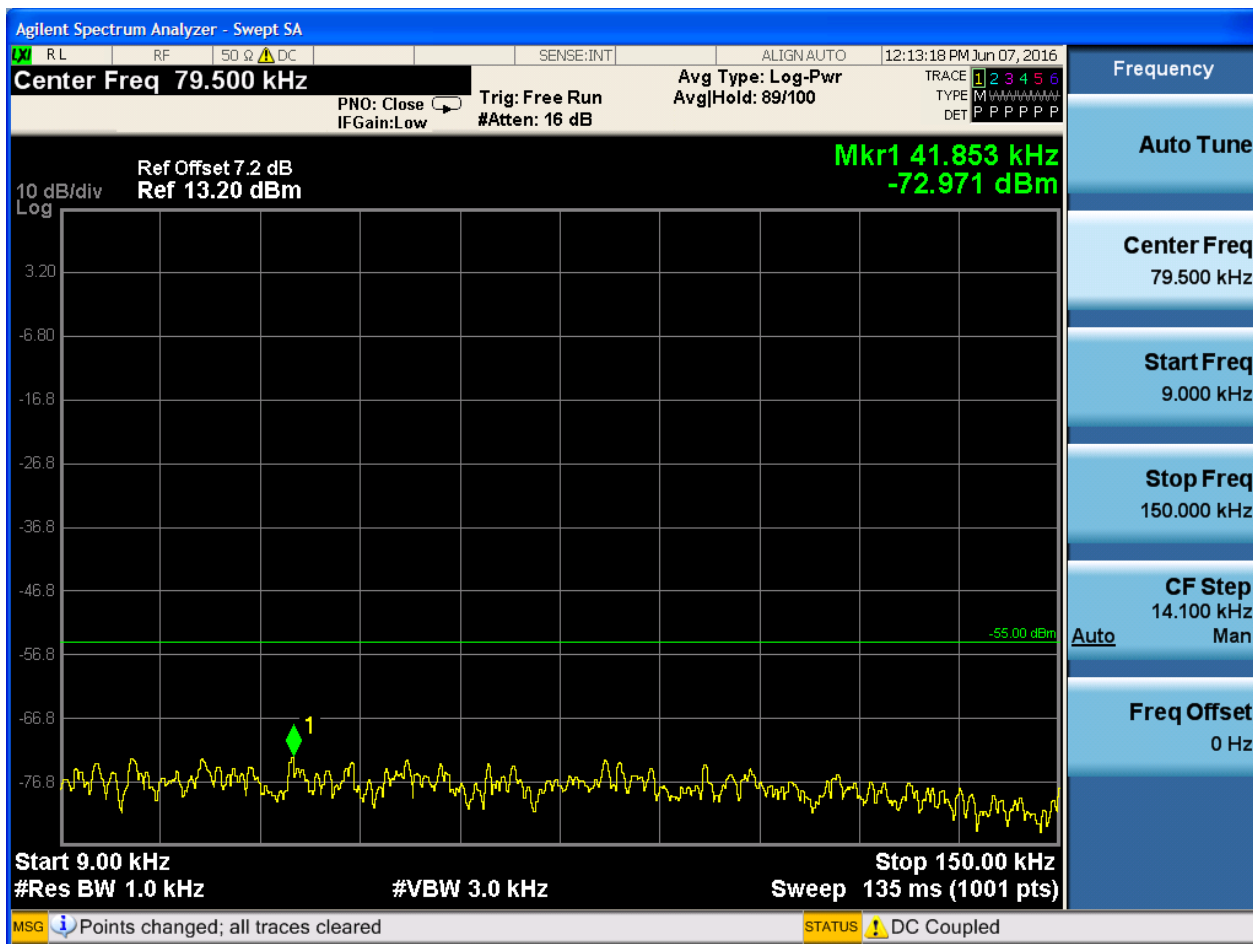


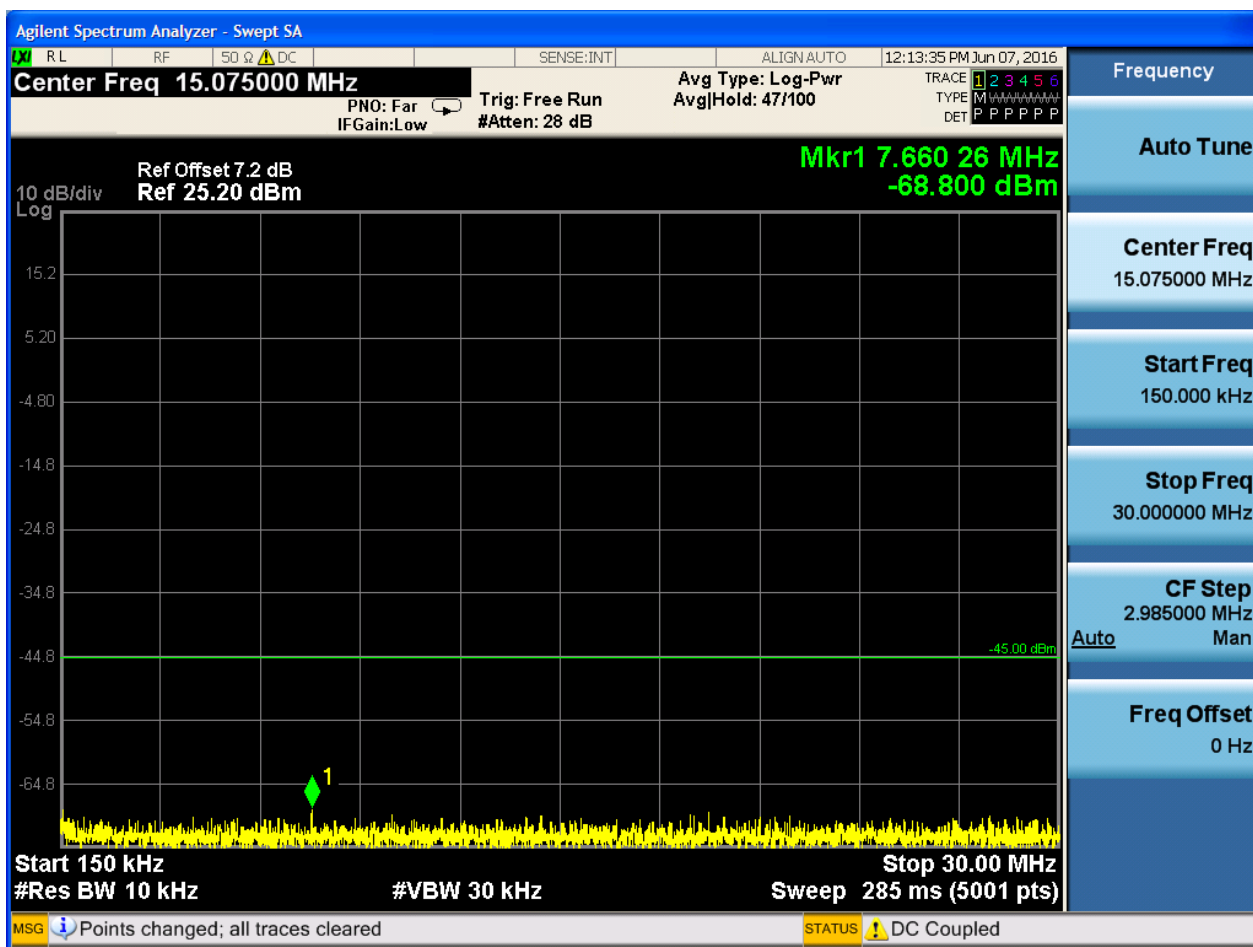




6.1.1.2.4.3 Test Channel = HCH

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

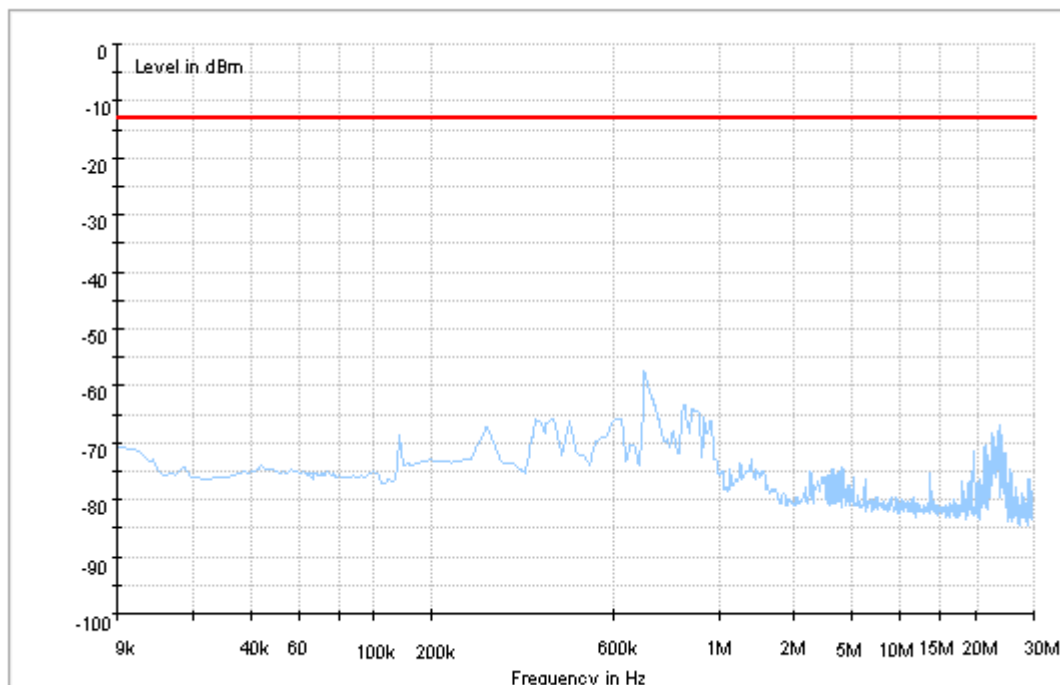
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

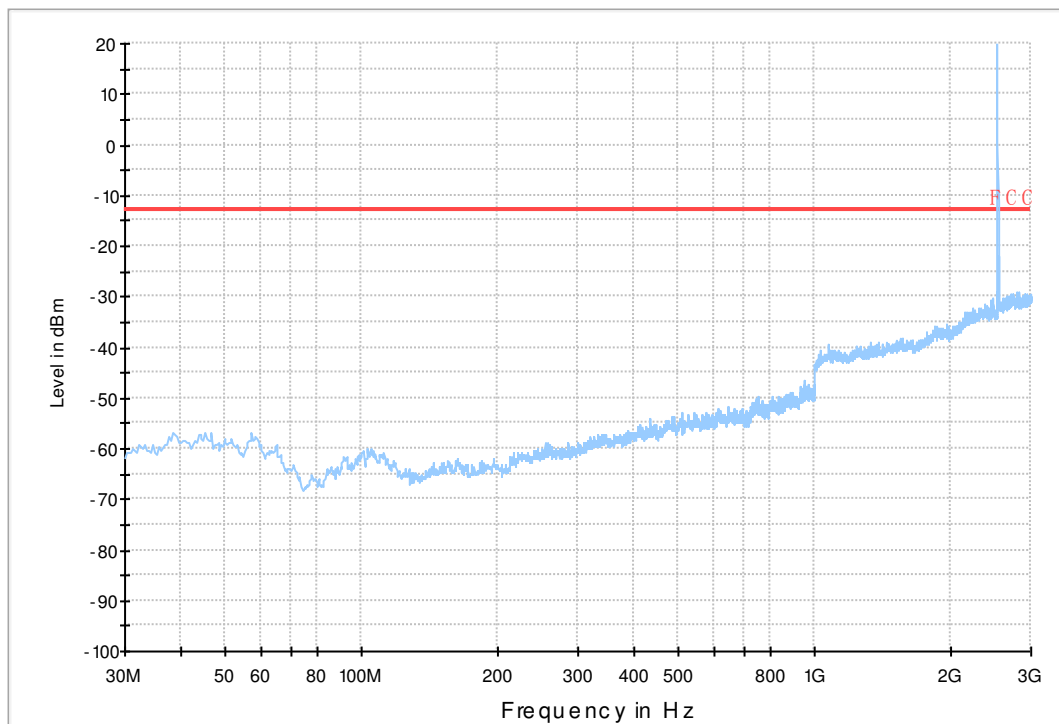
7.1 For LTE

7.1.1 Test Band = BAND7

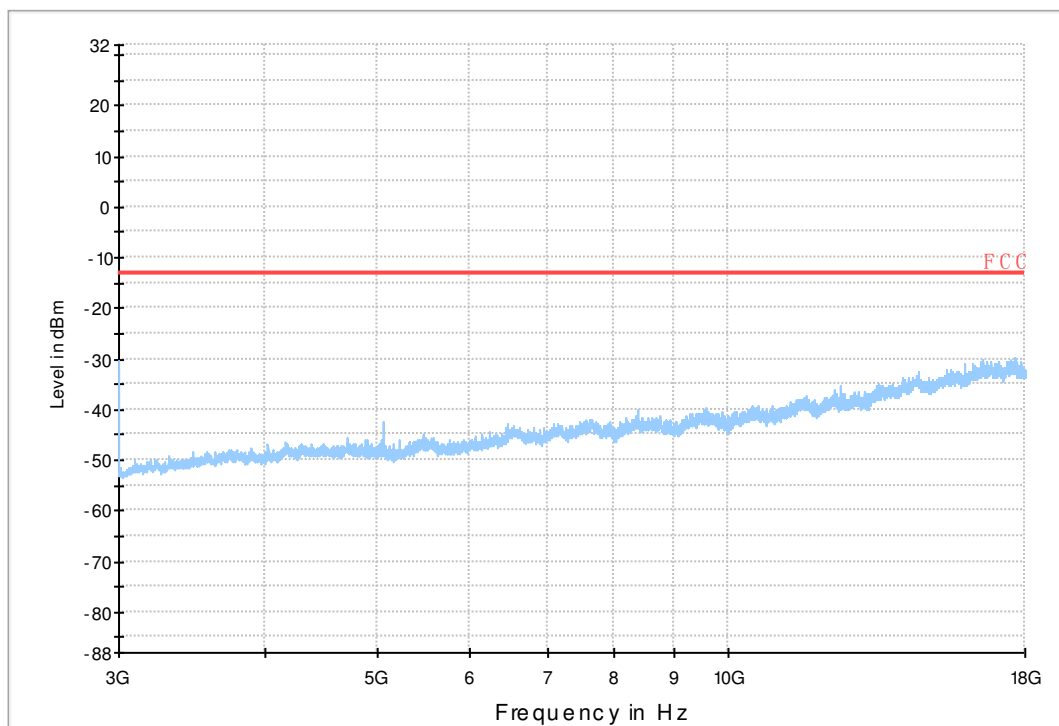
7.1.1.1 Test Bandwidth = 5

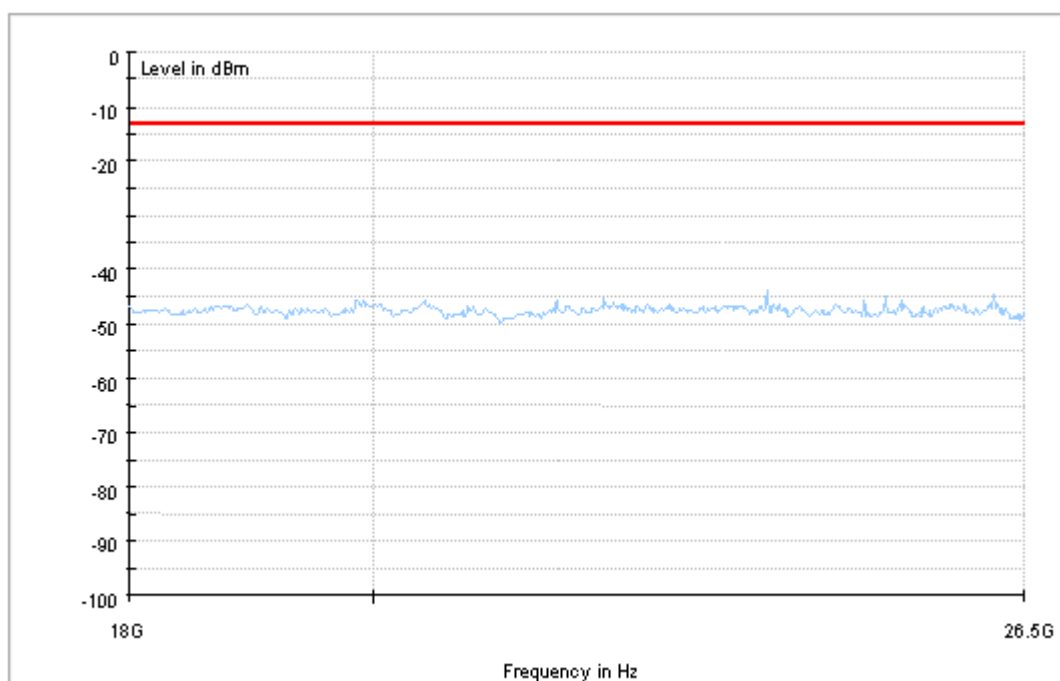


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

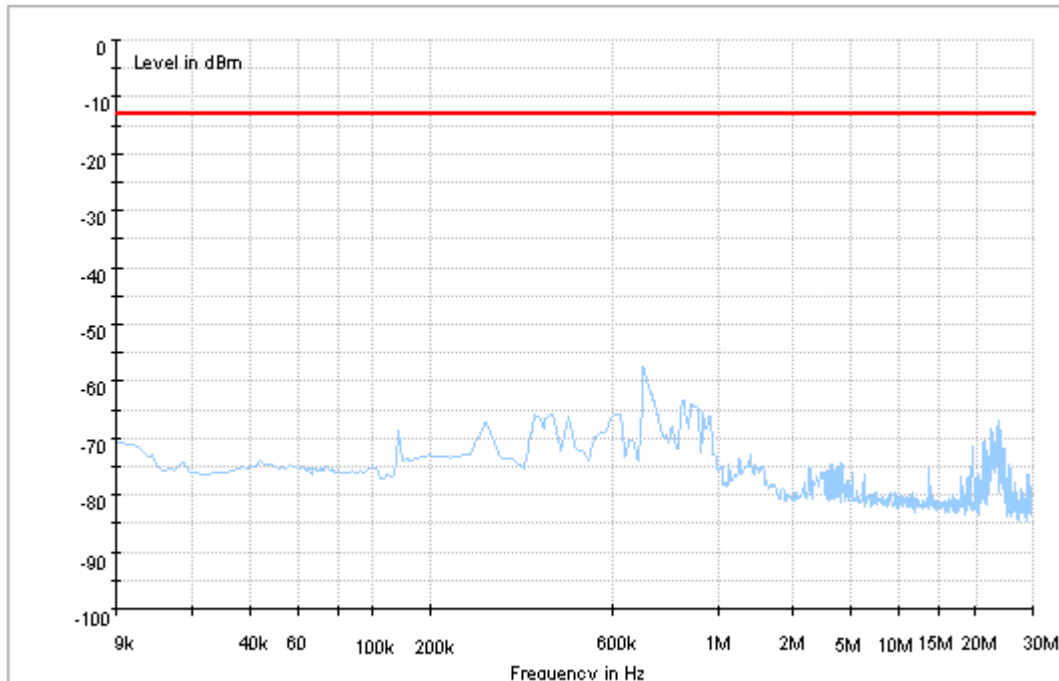


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

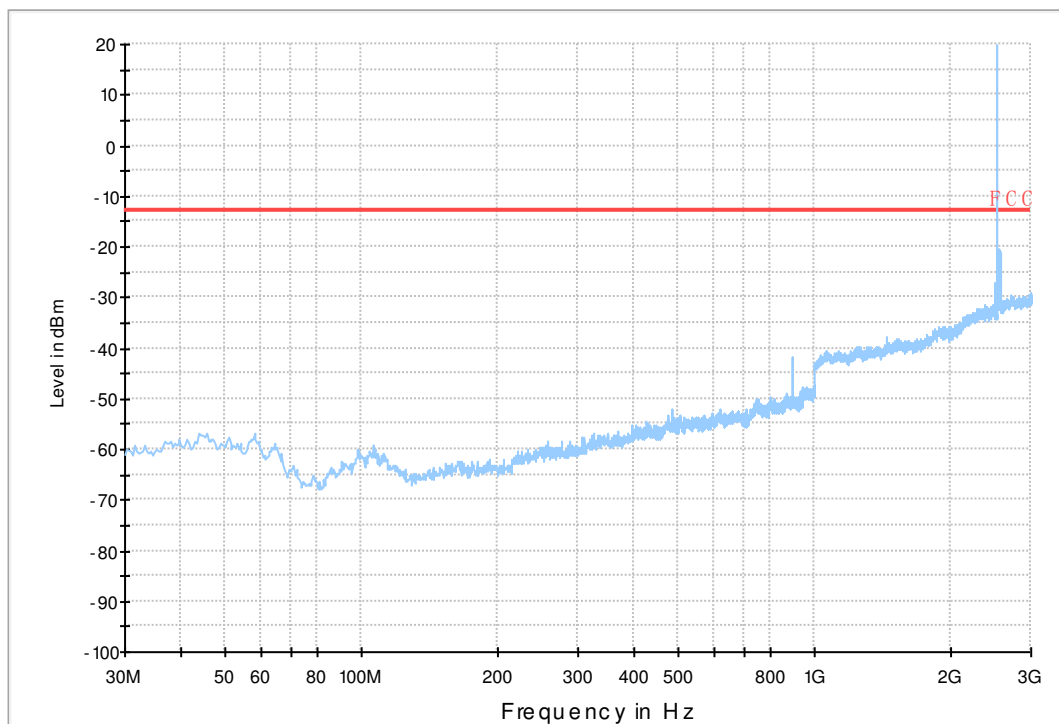




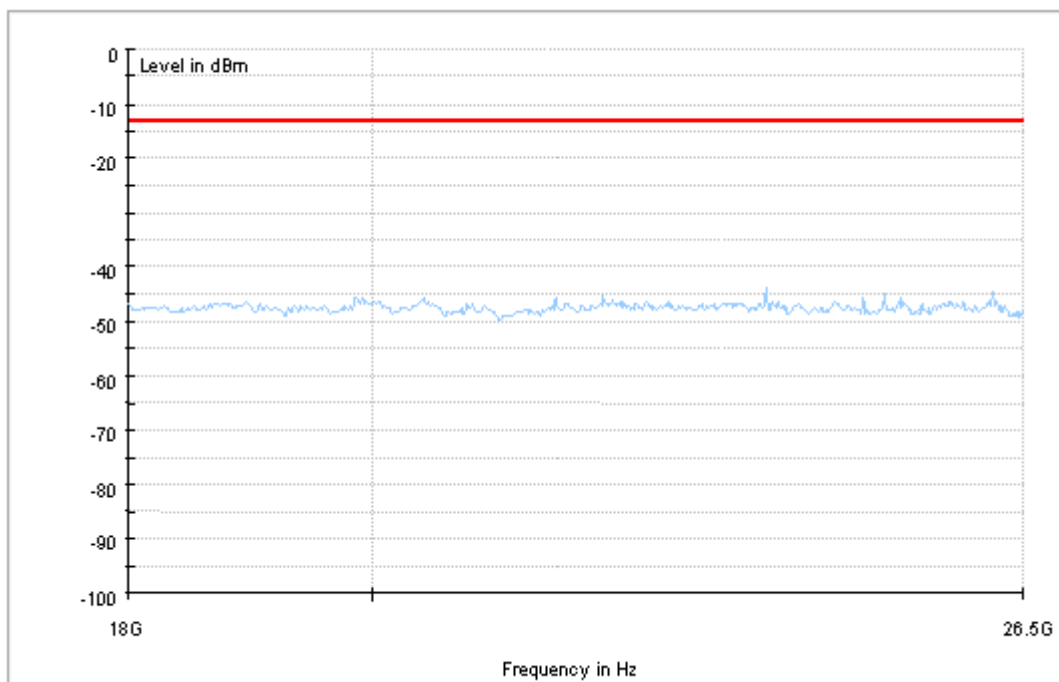
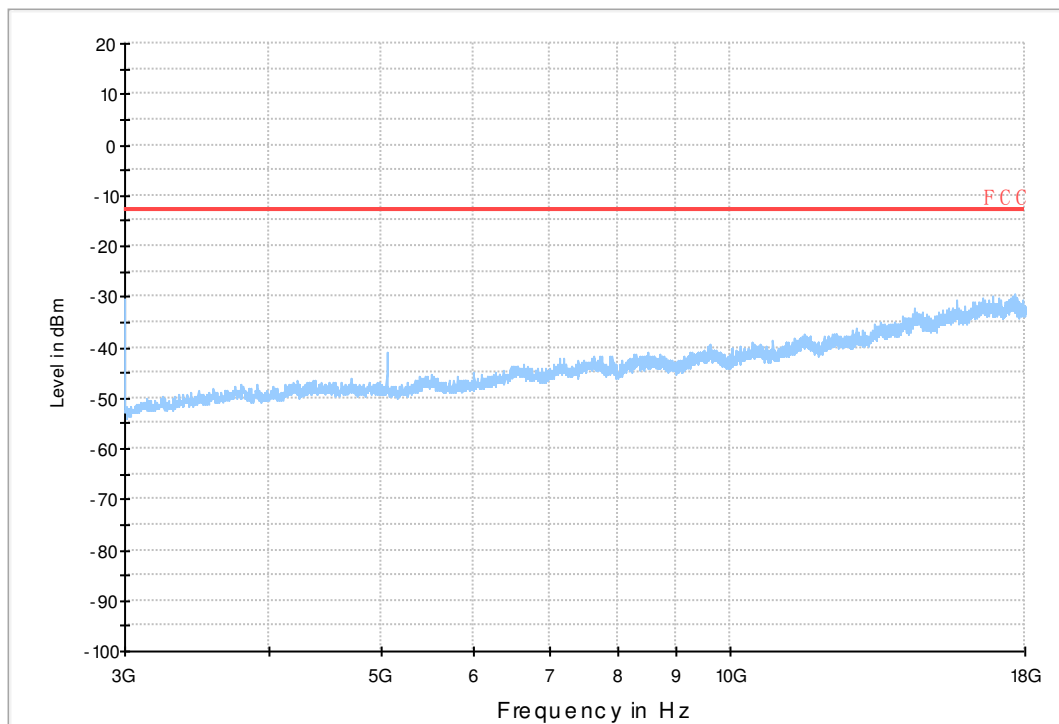
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_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	6.17	0.00247	PASS
					VN	3.72	0.00149	PASS
					VH	9.31	0.00372	PASS
			MCH	TN	VL	6.37	0.00251	PASS
					VN	3.82	0.00151	PASS
					VH	6.04	0.00238	PASS
			HCH	TN	VL	1.76	0.00069	PASS
					VN	0.03	0.00001	PASS
					VH	0.01	0	PASS
		10	LCH	TN	VL	1.95	0.00078	PASS
					VN	-1.40	-0.00056	PASS
					VH	5.81	0.00232	PASS
			MCH	TN	VL	1.02	0.0004	PASS
					VN	3.52	0.00139	PASS
					VH	-0.72	-0.00028	PASS
			HCH	TN	VL	5.65	0.0022	PASS
					VN	6.04	0.00235	PASS
					VH	6.85	0.00267	PASS
		15	LCH	TN	VL	6.52	0.0026	PASS
					VN	0.63	0.00025	PASS
					VH	-1.10	-0.00044	PASS
			MCH	TN	VL	3.20	0.00126	PASS
					VN	-0.23	-0.00009	PASS
					VH	1.95	0.00077	PASS
			HCH	TN	VL	8.78	0.00343	PASS
					VN	3.49	0.00136	PASS
					VH	1.54	0.0006	PASS
		20	LCH	TN	VL	2.52	0.001	PASS
					VN	4.08	0.00163	PASS
					VH	1.00	0.0004	PASS
			MCH	TN	VL	0.62	0.00024	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	3.22	0.00127	PASS
					VH	3.32	0.00131	PASS
					VL	3.30	0.00129	PASS
					VN	-0.04	-0.00002	PASS
					VH	2.60	0.00102	PASS
					VL	3.10	0.00124	PASS
		5	LCH	TN	VN	0.87	0.00035	PASS
					VH	4.23	0.00169	PASS
					VL	7.78	0.00307	PASS
			MCH	TN	VN	1.76	0.00069	PASS
					VH	0.57	0.00022	PASS
					VL	5.88	0.00229	PASS
			HCH	TN	VN	5.12	0.00199	PASS
					VH	1.09	0.00042	PASS
					VL	9.30	0.00371	PASS
		10	LCH	TN	VN	1.69	0.00067	PASS
					VH	-2.69	-0.00107	PASS
					VL	6.74	0.00266	PASS
			MCH	TN	VN	6.51	0.00257	PASS
					VH	4.61	0.00182	PASS
					VL	2.49	0.00097	PASS
			HCH	TN	VN	-0.06	-0.00002	PASS
					VH	-0.50	-0.00019	PASS
					VL	8.48	0.00338	PASS
		15	LCH	TN	VN	2.25	0.0009	PASS
					VH	3.66	0.00146	PASS
					VL	0.97	0.00038	PASS
			MCH	TN	VN	0.60	0.00024	PASS
					VH	0.67	0.00026	PASS
					VL	2.20	0.00086	PASS
			HCH	TN	VN	0.01	0	PASS
					VH	0.44	0.00017	PASS
					VL	10.60	0.00422	PASS
		20	LCH	TN	VN	4.33	0.00173	PASS
					VH	4.06	0.00162	PASS
					VL	4.16	0.00164	PASS
			MCH	TN	VN	4.06	0.0016	PASS
					VH	0.77	0.0003	PASS
					VL	2.45	0.00096	PASS
			HCH	TN	VL	2.45	0.00096	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.73	0.00029	PASS
					VH	0.66	0.00026	PASS

8.1.2 Frequency Error vs. Voltage:

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	16.06	0.00642	PASS
					-20	9.66	0.00386	PASS
					-10	7.67	0.00306	PASS
					0	9.38	0.00375	PASS
					10	4.22	0.00169	PASS
					20	4.35	0.00174	PASS
					30	7.58	0.00303	PASS
					40	0.29	0.00012	PASS
					50	8.96	0.00358	PASS
			MCH	VN	-30	3.42	0.00135	PASS
					-20	6.97	0.00275	PASS
					-10	3.13	0.00123	PASS
					0	0.84	0.00033	PASS
					10	2.19	0.00086	PASS
					20	3.72	0.00147	PASS
					30	1.43	0.00056	PASS
					40	1.59	0.00063	PASS
					50	1.10	0.00043	PASS
			HCH	VN	-30	5.71	0.00222	PASS
					-20	3.88	0.00151	PASS
					-10	3.12	0.00122	PASS
					0	0.26	0.0001	PASS
					10	0.49	0.00019	PASS
					20	2.46	0.00096	PASS
					30	4.61	0.0018	PASS
					40	0.99	0.00039	PASS
					50	0.93	0.00036	PASS
		10	LCH	VN	-30	2.65	0.00106	PASS
					-20	-2.37	-0.00095	PASS
					-10	0.63	0.00025	PASS
					0	0.30	0.00012	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	0.19	0.00008	PASS
					20	2.57	0.00103	PASS
					30	-5.42	-0.00216	PASS
					40	-3.48	-0.00139	PASS
					50	-3.10	-0.00124	PASS
			MCH	VN	-30	1.76	0.00069	PASS
					-20	1.59	0.00063	PASS
					-10	4.46	0.00176	PASS
					0	5.29	0.00209	PASS
					10	-1.17	-0.00046	PASS
					20	1.67	0.00066	PASS
					30	1.14	0.00045	PASS
					40	-0.03	-0.00001	PASS
					50	0.51	0.0002	PASS
			HCH	VN	-30	2.89	0.00113	PASS
					-20	1.72	0.00067	PASS
					-10	2.76	0.00108	PASS
					0	3.89	0.00152	PASS
					10	1.19	0.00046	PASS
					20	0.74	0.00029	PASS
					30	0.87	0.00034	PASS
					40	0.69	0.00027	PASS
					50	0.50	0.00019	PASS
		15	LCH	VN	-30	3.30	0.00132	PASS
					-20	3.23	0.00129	PASS
					-10	1.09	0.00043	PASS
					0	2.46	0.00098	PASS
					10	1.07	0.00043	PASS
					20	0.41	0.00016	PASS
					30	1.86	0.00074	PASS
					40	2.46	0.00098	PASS
					50	2.19	0.00087	PASS
			MCH	VN	-30	1.73	0.00068	PASS
					-20	4.09	0.00161	PASS
					-10	-0.89	-0.00035	PASS
					0	3.36	0.00133	PASS
					10	1.36	0.00054	PASS
					20	2.78	0.0011	PASS
					30	3.55	0.0014	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	1.66	0.00065	PASS
					50	3.49	0.00138	PASS
			HCH	VN	-30	4.66	0.00182	PASS
					-20	3.40	0.00133	PASS
					-10	2.25	0.00088	PASS
					0	2.35	0.00092	PASS
					10	2.10	0.00082	PASS
					20	4.09	0.0016	PASS
					30	2.55	0.001	PASS
					40	3.56	0.00139	PASS
					50	2.70	0.00105	PASS
		20	LCH	VN	-30	6.69	0.00267	PASS
					-20	2.00	0.0008	PASS
					-10	1.39	0.00055	PASS
					0	3.75	0.00149	PASS
					10	4.21	0.00168	PASS
					20	0.87	0.00035	PASS
					30	3.82	0.00152	PASS
					40	4.11	0.00164	PASS
					50	3.96	0.00158	PASS
			MCH	VN	-30	4.39	0.00173	PASS
					-20	3.09	0.00122	PASS
					-10	0.77	0.0003	PASS
					0	3.40	0.00134	PASS
					10	1.32	0.00052	PASS
					20	-0.74	-0.00029	PASS
					30	4.25	0.00168	PASS
					40	0.66	0.00026	PASS
					50	1.26	0.0005	PASS
			HCH	VN	-30	1.53	0.0006	PASS
					-20	0.46	0.00018	PASS
					-10	2.27	0.00089	PASS
					0	2.50	0.00098	PASS
					10	-1.63	-0.00064	PASS
					20	-1.44	-0.00056	PASS
					30	1.02	0.0004	PASS
					40	-0.07	-0.00003	PASS
					50	0.46	0.00018	PASS
	LTE/TM2	5	LCH	VN	-30	8.18	0.00327	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	5.39	0.00215	PASS
					-10	6.32	0.00253	PASS
					0	6.65	0.00266	PASS
					10	4.49	0.00179	PASS
					20	2.68	0.00107	PASS
					30	4.28	0.00171	PASS
					40	3.85	0.00154	PASS
					50	3.42	0.00137	PASS
			MCH	VN	-30	12.03	0.00475	PASS
					-20	1.79	0.00071	PASS
					-10	0.24	0.00009	PASS
					0	3.99	0.00157	PASS
					10	2.45	0.00097	PASS
					20	1.63	0.00064	PASS
					30	-1.19	-0.00047	PASS
					40	5.16	0.00204	PASS
					50	2.59	0.00102	PASS
			HCH	VN	-30	8.96	0.00349	PASS
					-20	2.93	0.00114	PASS
					-10	3.15	0.00123	PASS
					0	2.75	0.00107	PASS
					10	2.95	0.00115	PASS
					20	3.03	0.00118	PASS
					30	2.17	0.00085	PASS
					40	1.32	0.00051	PASS
					50	0.39	0.00015	PASS
		10	LCH	VN	-30	6.54	0.00261	PASS
					-20	4.75	0.0019	PASS
					-10	1.53	0.00061	PASS
					0	2.45	0.00098	PASS
					10	-0.67	-0.00027	PASS
					20	1.49	0.00059	PASS
					30	-0.37	-0.00015	PASS
					40	-2.92	-0.00117	PASS
					50	-3.00	-0.0012	PASS
			MCH	VN	-30	7.72	0.00305	PASS
					-20	4.79	0.00189	PASS
					-10	4.29	0.00169	PASS
					0	3.38	0.00133	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	5.01	0.00198	PASS
					20	4.45	0.00176	PASS
					30	5.21	0.00206	PASS
					40	5.52	0.00218	PASS
					50	4.09	0.00161	PASS
			HCH	VN	-30	3.68	0.00143	PASS
					-20	0.47	0.00018	PASS
					-10	2.63	0.00103	PASS
					0	-0.03	-0.00001	PASS
					10	1.50	0.00058	PASS
					20	1.09	0.00042	PASS
					30	3.43	0.00134	PASS
					40	1.29	0.0005	PASS
					50	5.04	0.00196	PASS
		15	LCH	VN	-30	1.75	0.0007	PASS
					-20	-0.84	-0.00033	PASS
					-10	1.43	0.00057	PASS
					0	1.97	0.00079	PASS
					10	-2.05	-0.00082	PASS
					20	-2.26	-0.0009	PASS
					30	-1.86	-0.00074	PASS
					40	-2.45	-0.00098	PASS
					50	-3.71	-0.00148	PASS
			MCH	VN	-30	2.62	0.00103	PASS
					-20	2.16	0.00085	PASS
					-10	1.69	0.00067	PASS
					0	2.07	0.00082	PASS
					10	1.69	0.00067	PASS
					20	2.16	0.00085	PASS
					30	1.99	0.00079	PASS
					40	1.69	0.00067	PASS
					50	2.10	0.00083	PASS
			HCH	VN	-30	6.28	0.00245	PASS
					-20	2.32	0.00091	PASS
					-10	2.72	0.00106	PASS
					0	1.65	0.00064	PASS
					10	2.30	0.0009	PASS
					20	3.08	0.0012	PASS
					30	3.46	0.00135	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20			40	3.95	0.00154	PASS
					50	3.53	0.00138	PASS
			LCH	VN	-30	4.63	0.00184	PASS
					-20	1.27	0.00051	PASS
					-10	1.30	0.00052	PASS
					0	3.99	0.00159	PASS
					10	4.23	0.00169	PASS
					20	2.59	0.00103	PASS
					30	0.36	0.00014	PASS
					40	1.14	0.00045	PASS
					50	1.56	0.00062	PASS
			MCH	VN	-30	2.12	0.00084	PASS
					-20	4.11	0.00162	PASS
					-10	0.99	0.00039	PASS
					0	-1.56	-0.00062	PASS
					10	-1.73	-0.00068	PASS
					20	-0.39	-0.00015	PASS
					30	0.76	0.0003	PASS
					40	3.48	0.00137	PASS
					50	1.29	0.00051	PASS
			HCH	VN	-30	1.39	0.00054	PASS
					-20	-0.56	-0.00022	PASS
					-10	-0.17	-0.00007	PASS
					0	-0.33	-0.00013	PASS
					10	1.65	0.00064	PASS
					20	0.24	0.00009	PASS
					30	-0.04	-0.00002	PASS
					40	1.79	0.0007	PASS
					50	-0.63	-0.00025	PASS

END