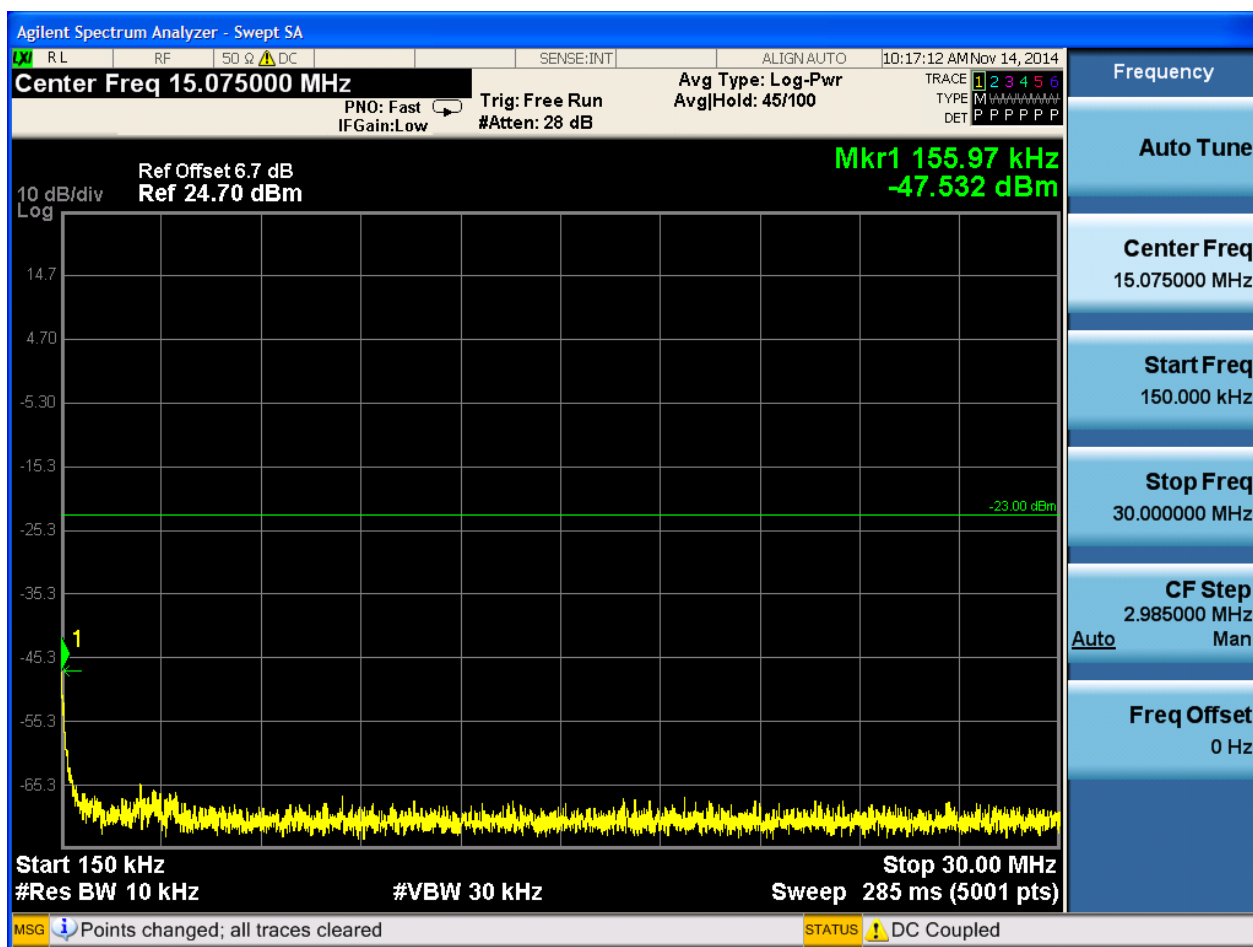
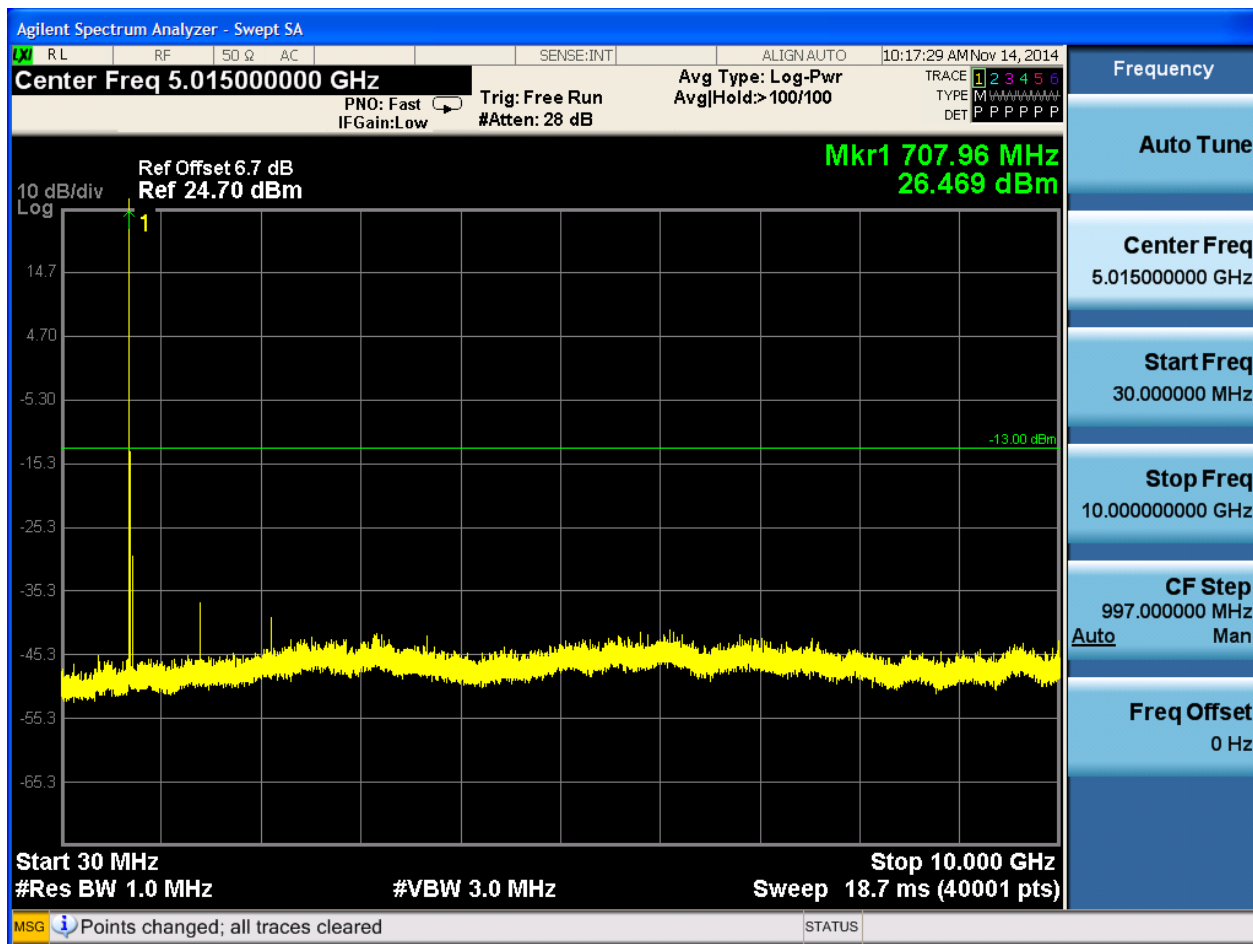


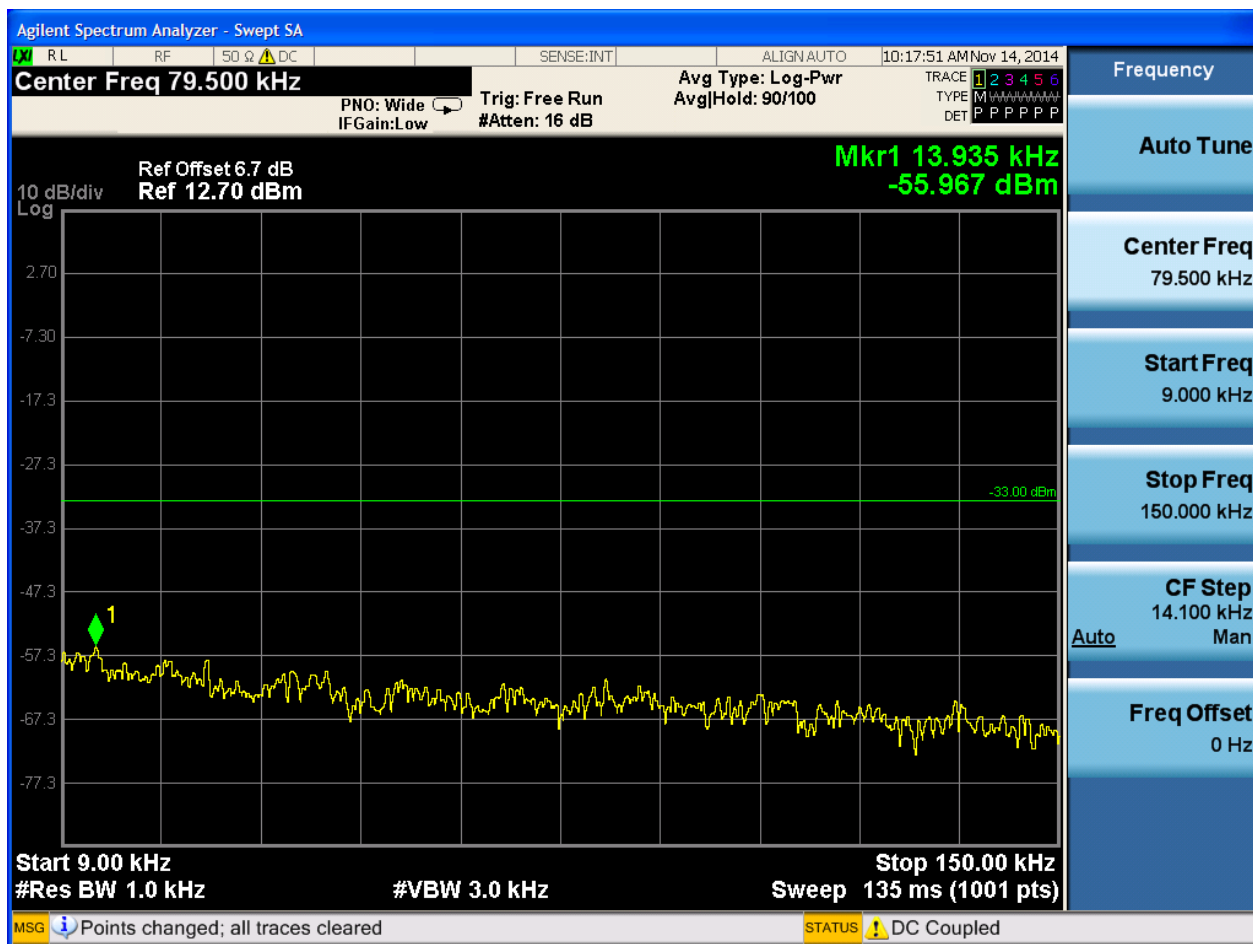




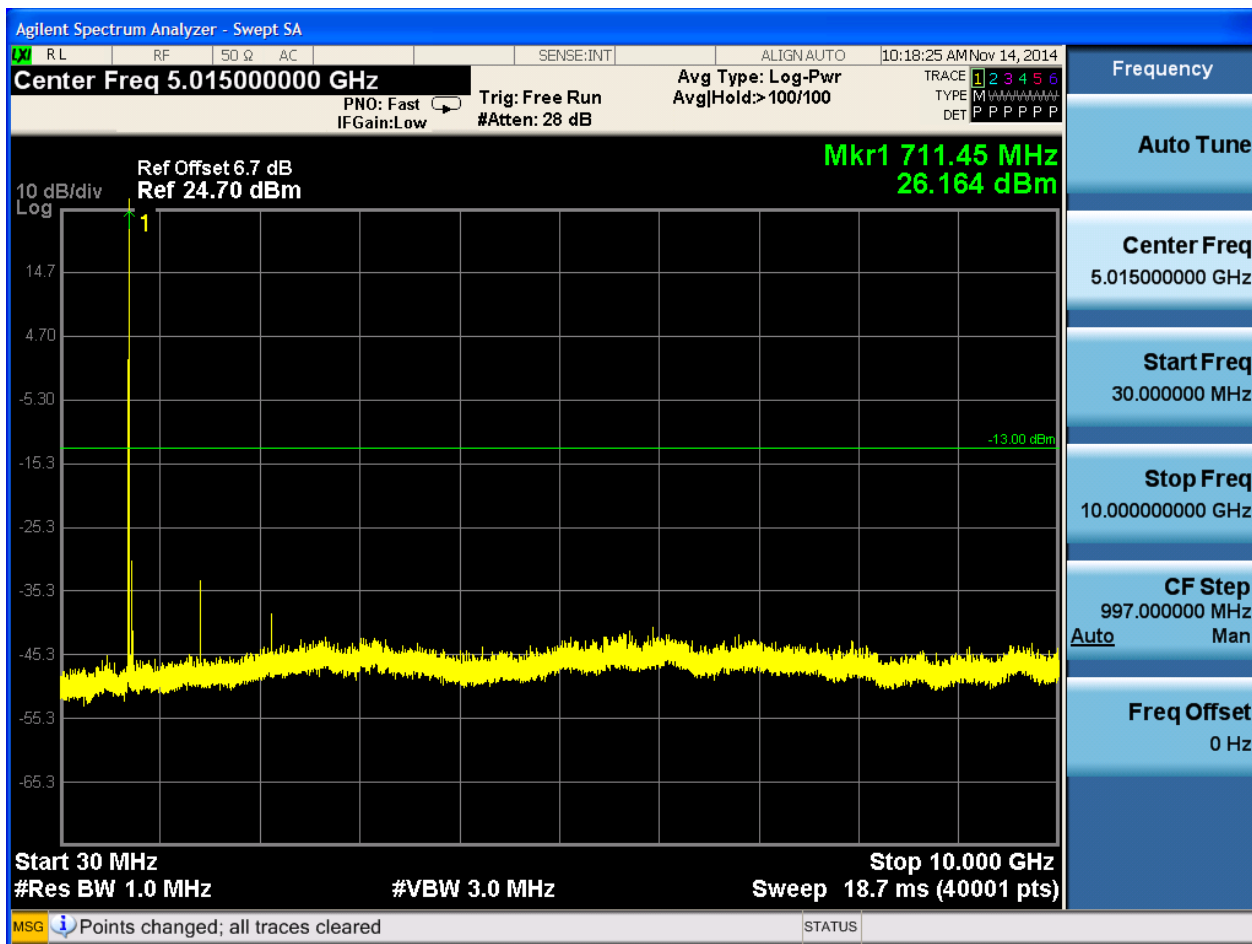


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0







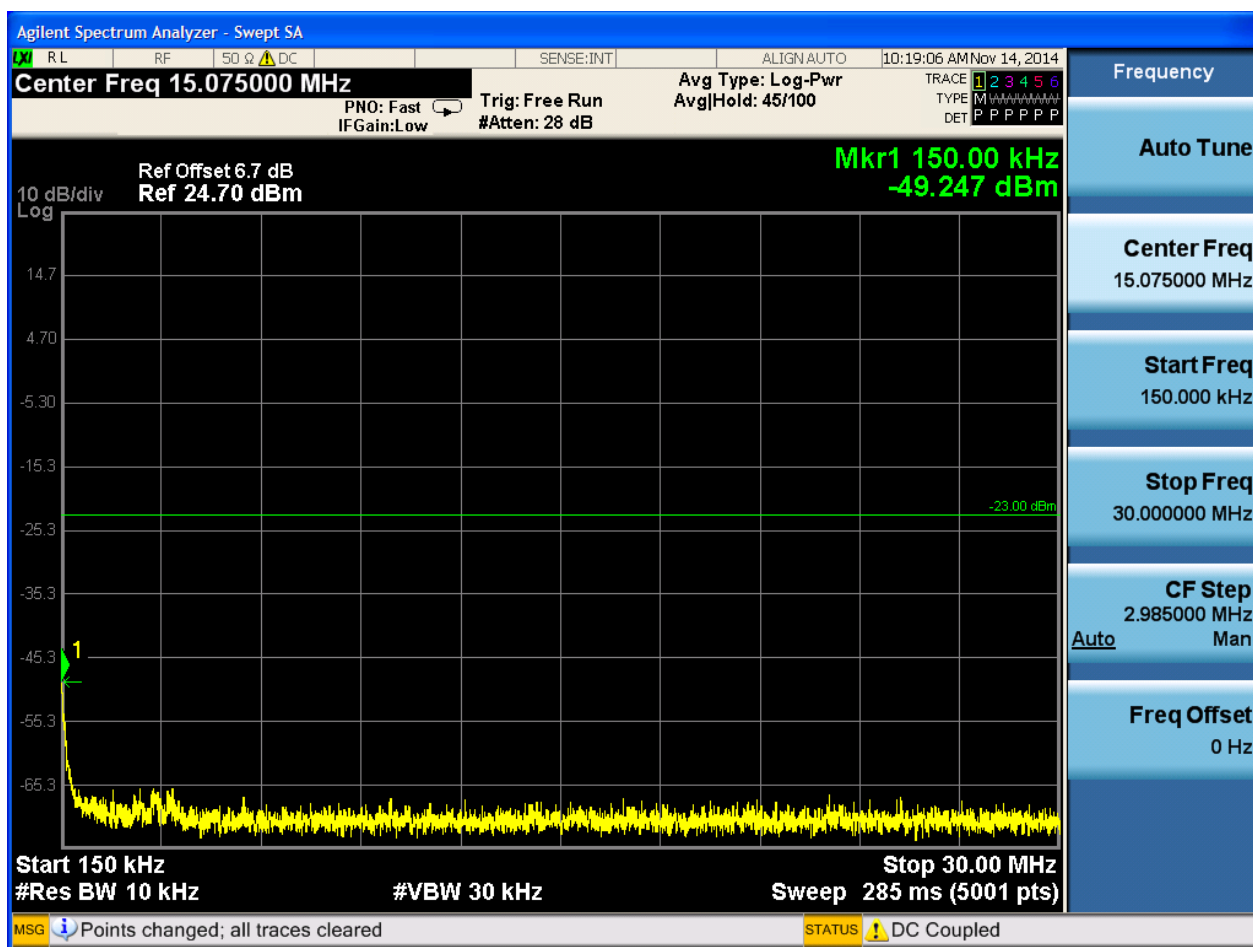


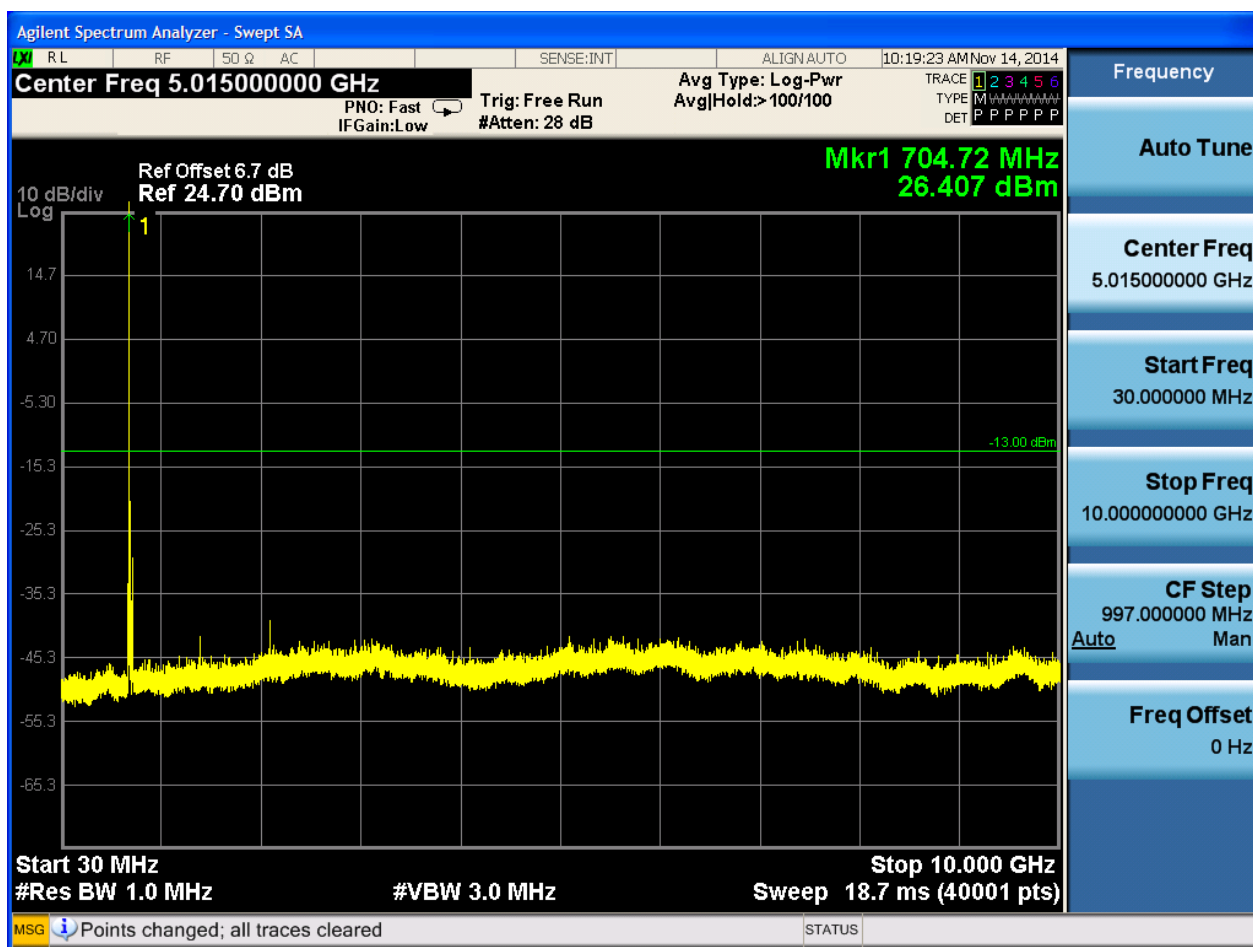
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



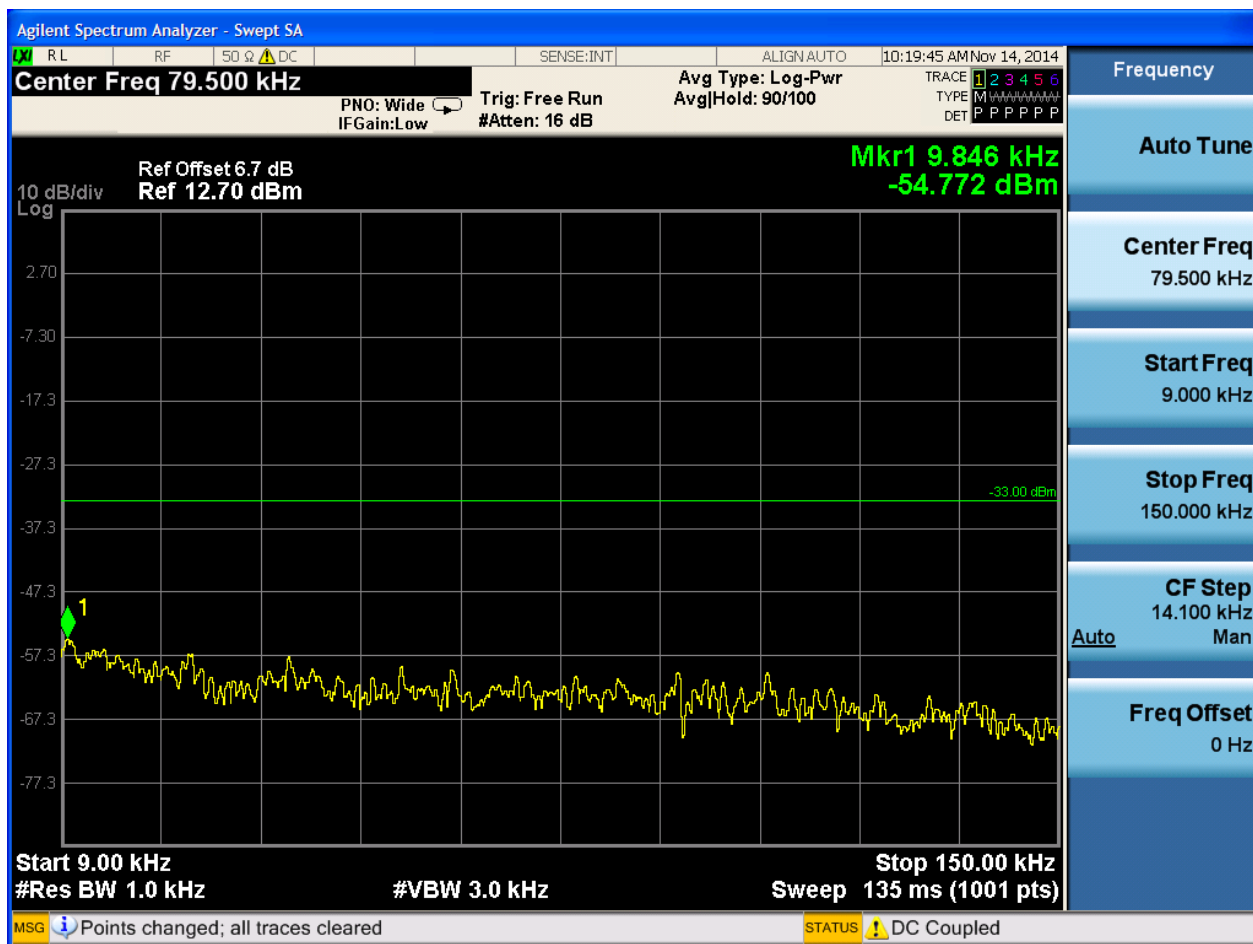


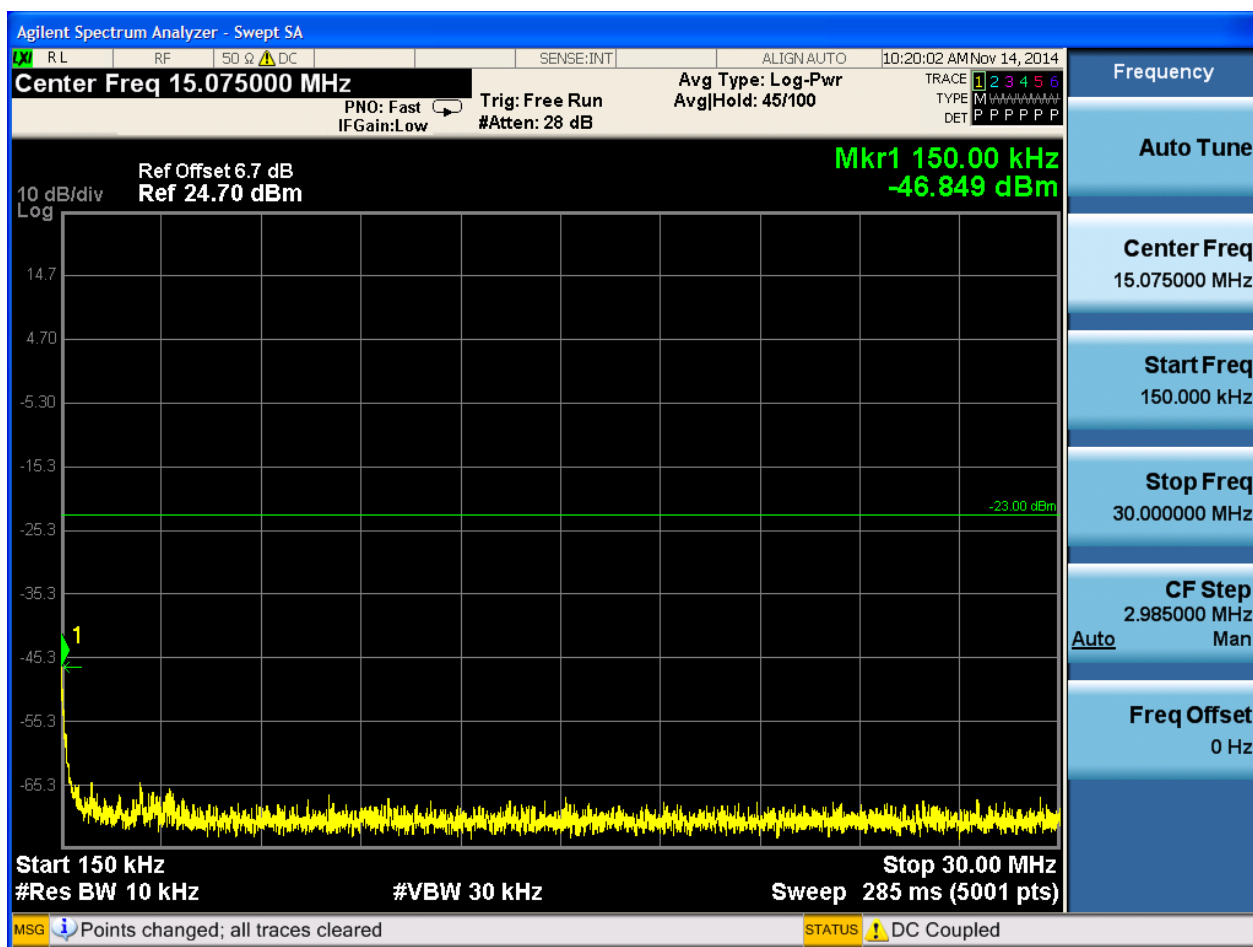


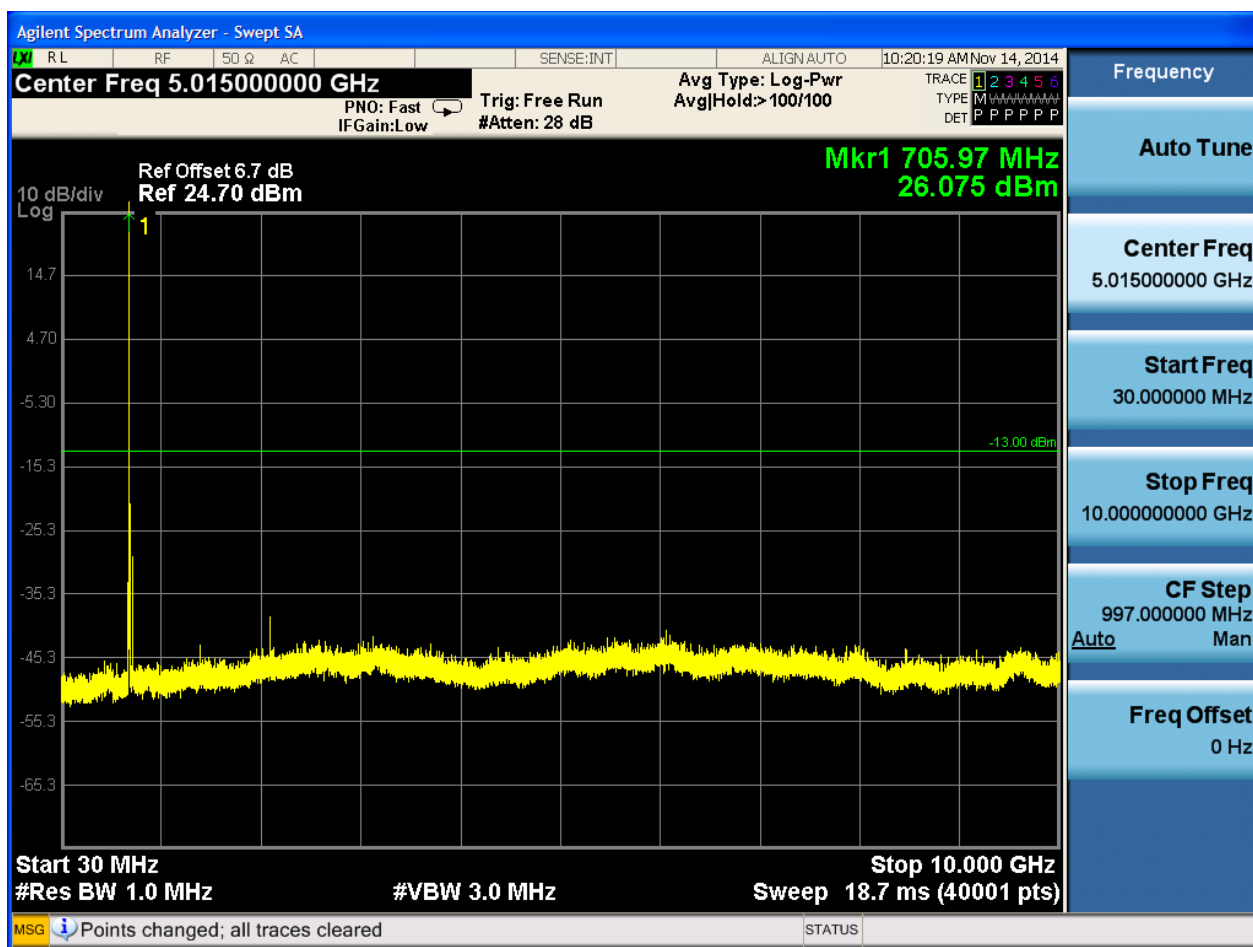


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



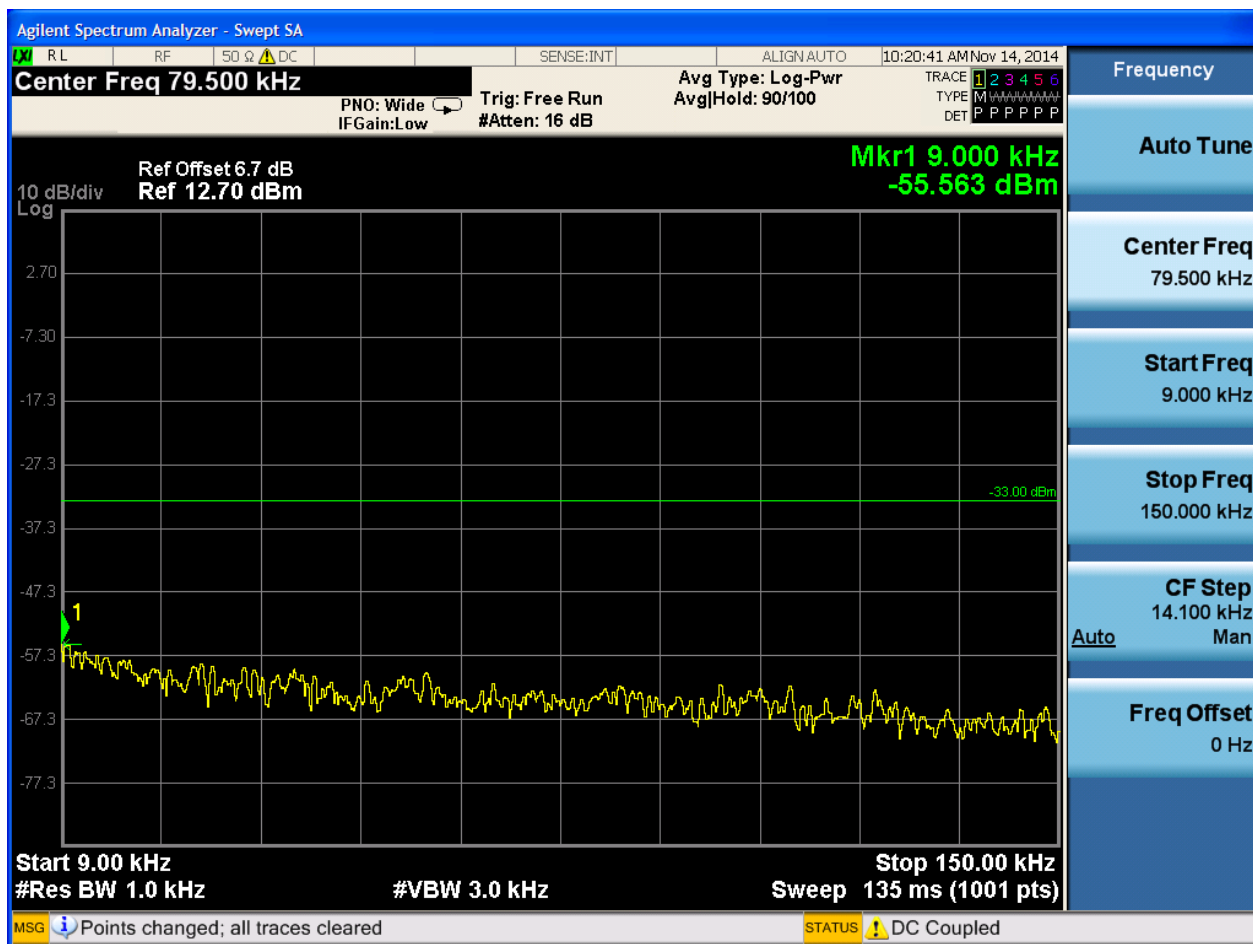


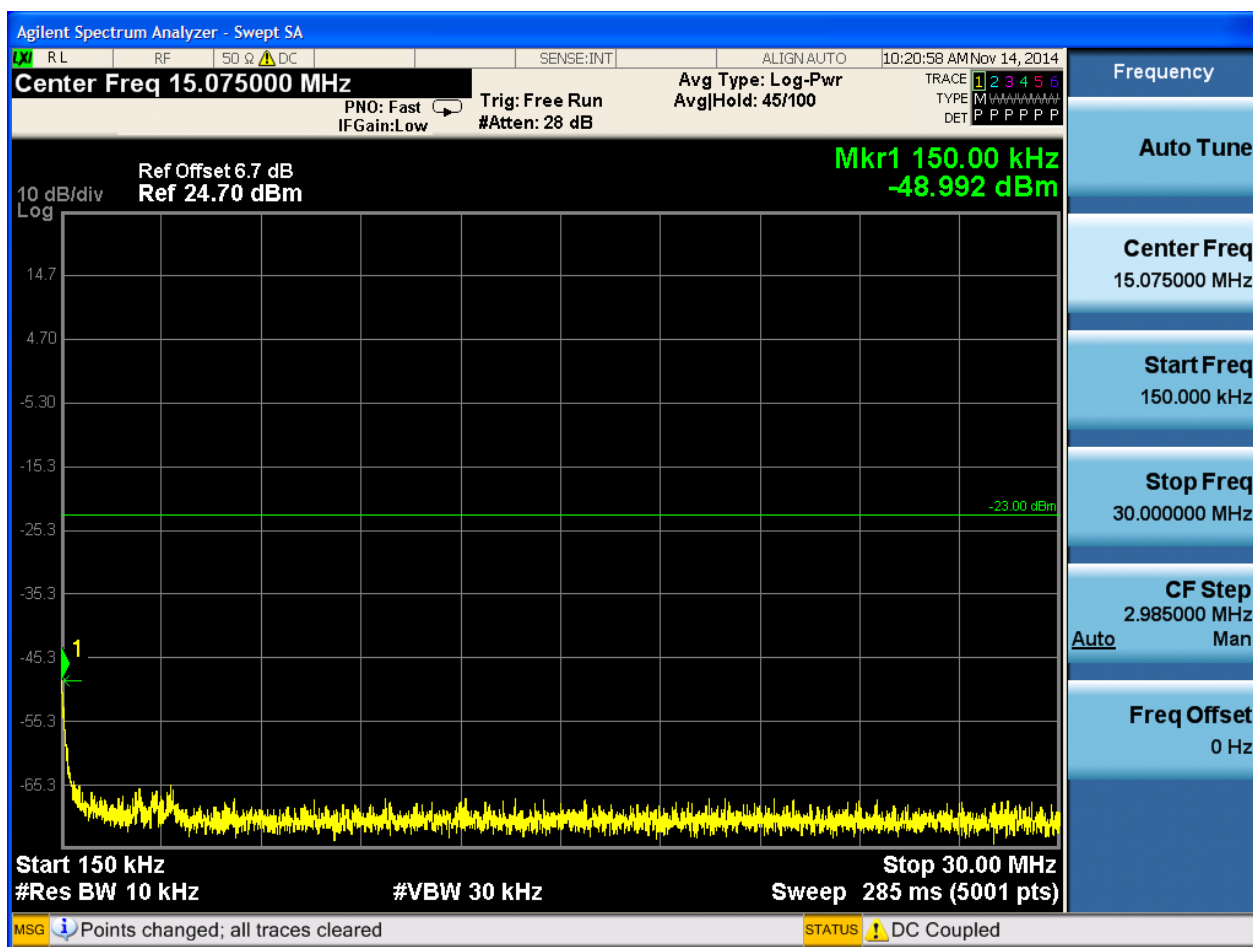


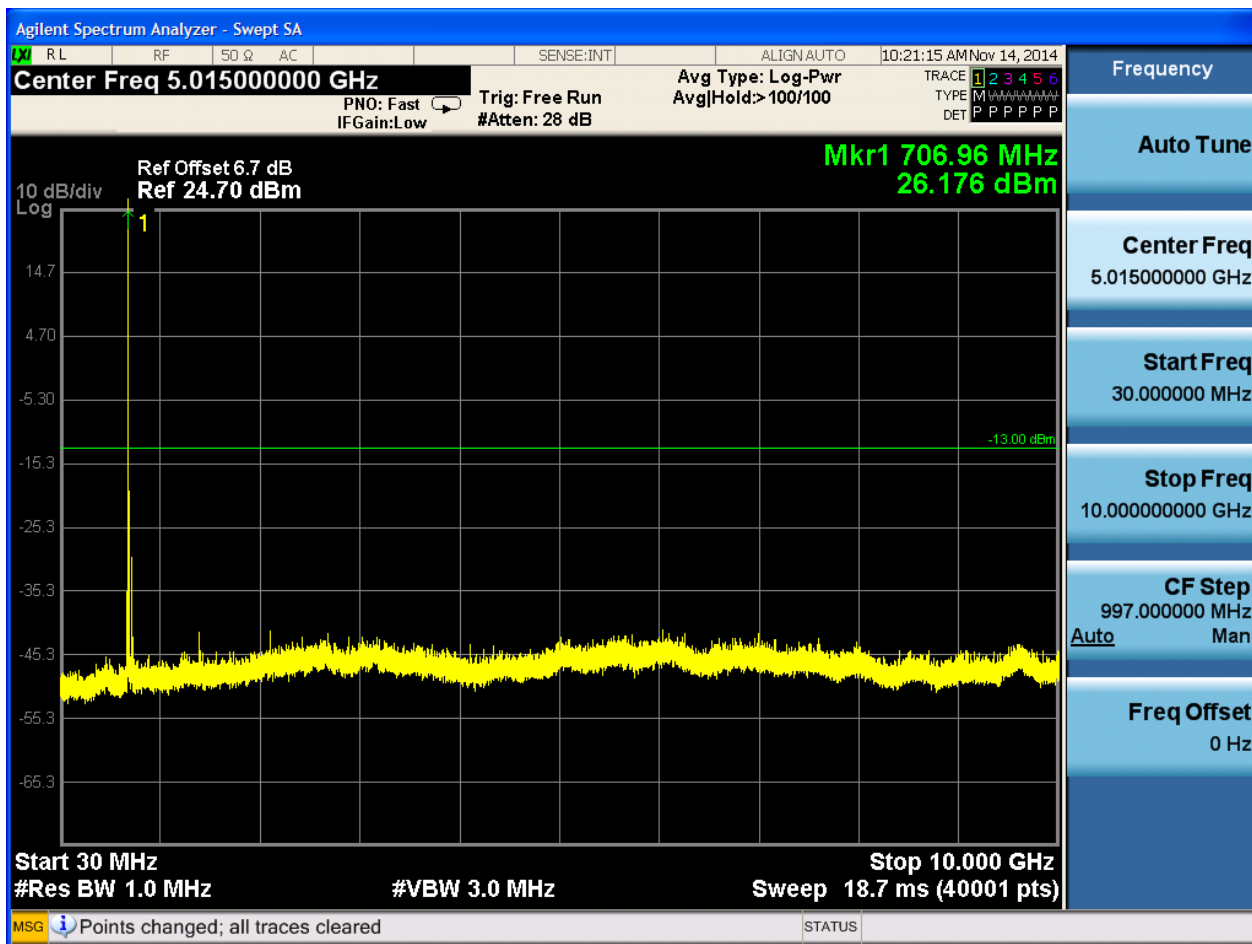


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0









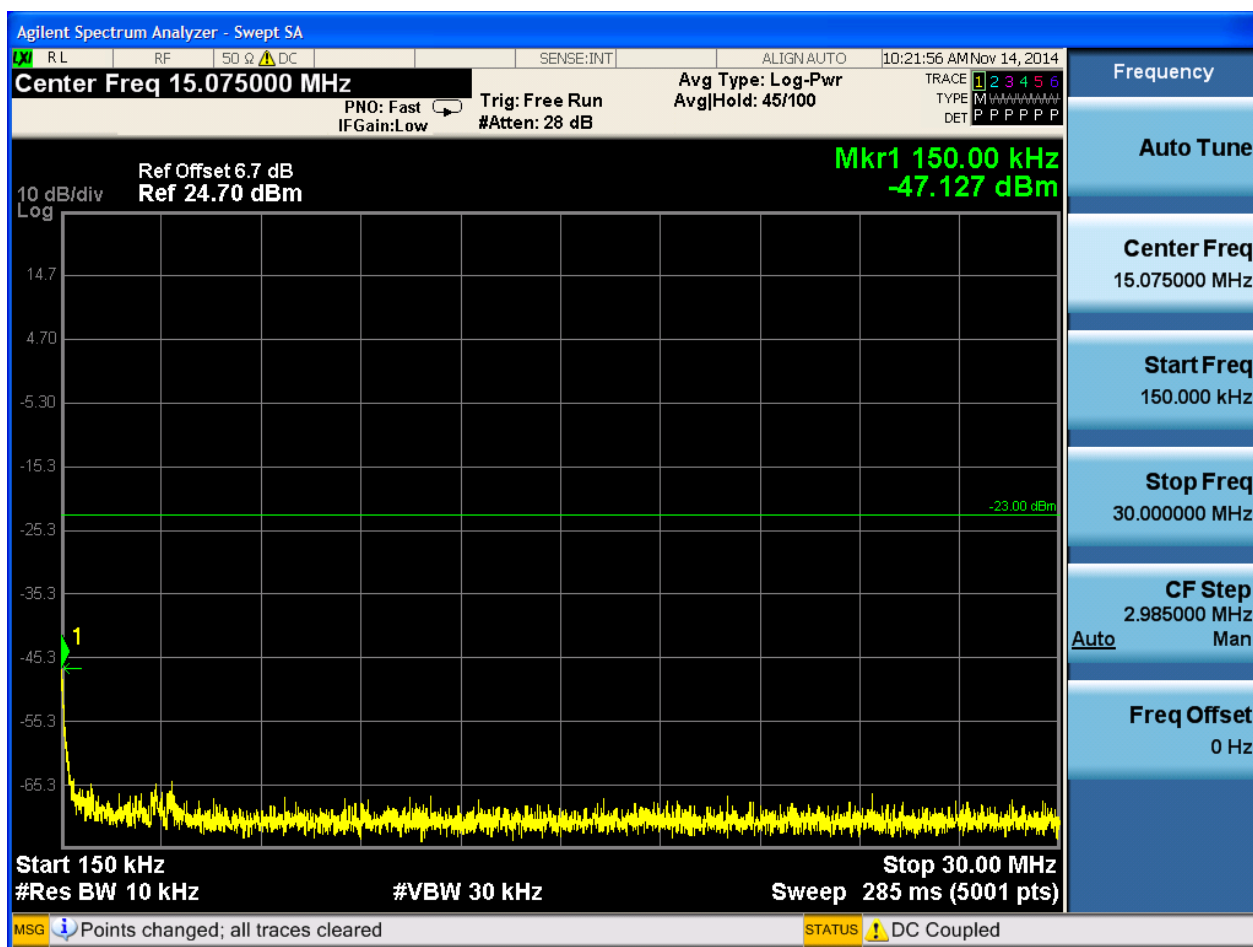
6.1.1.2 Test Mode = LTE/TM2

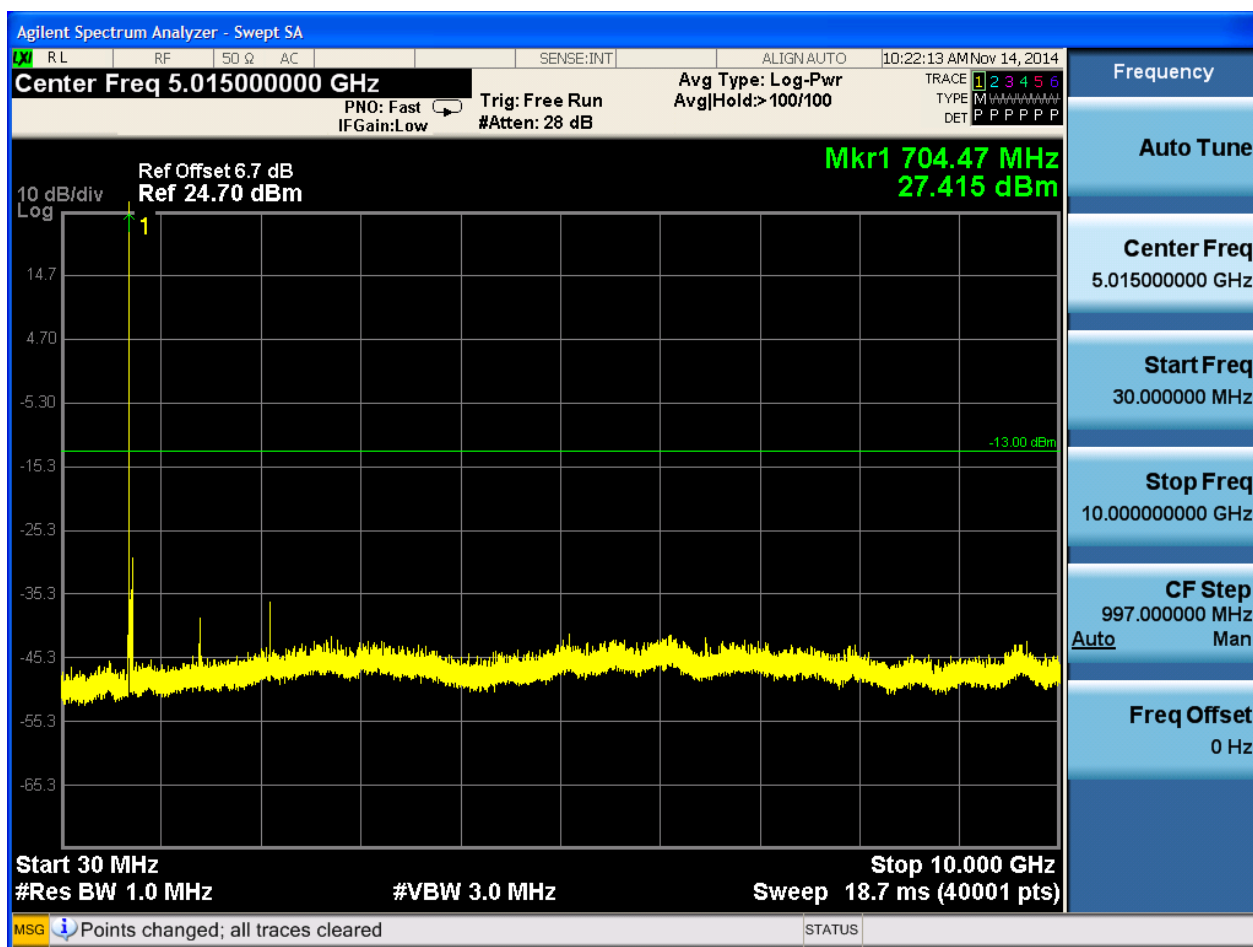
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



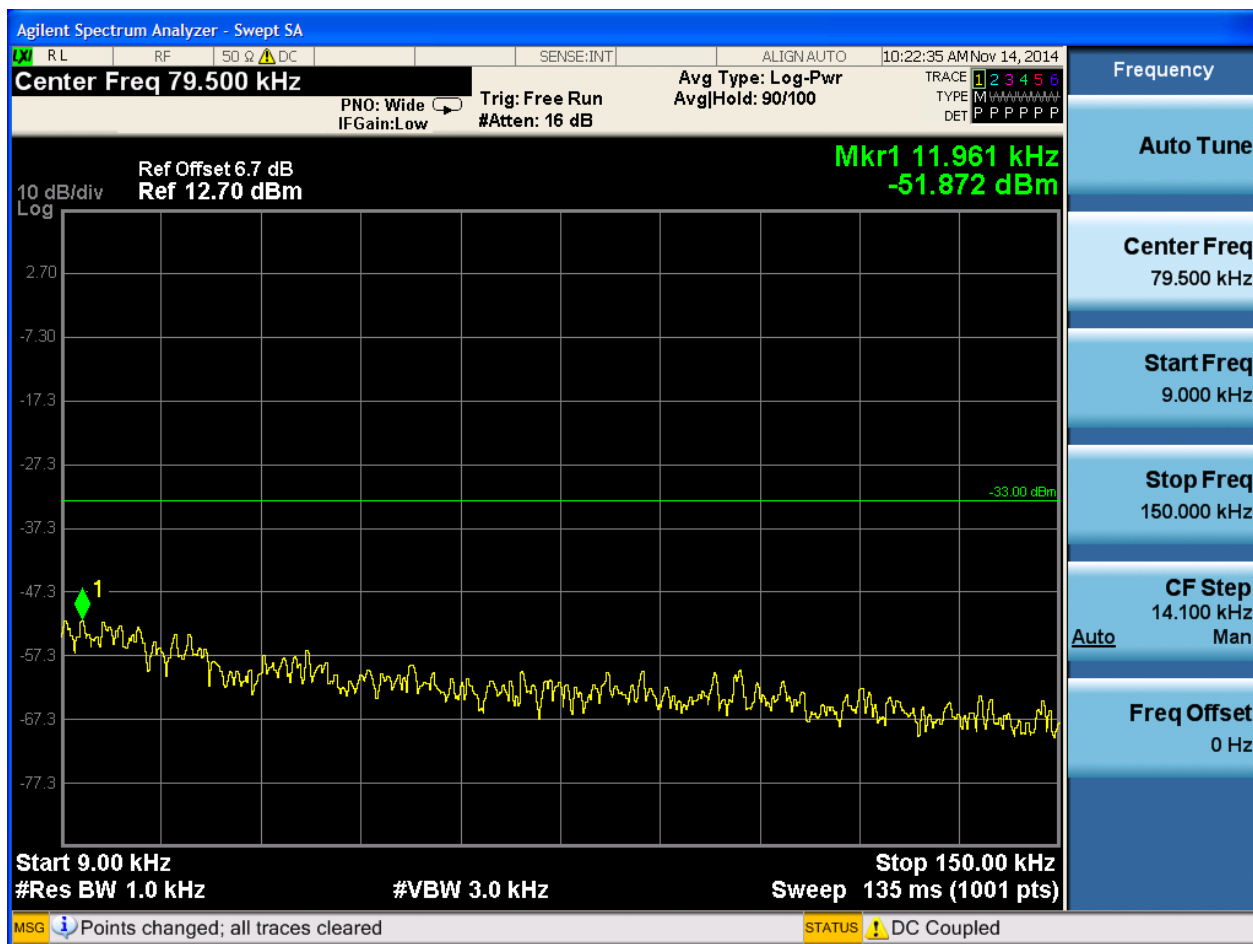


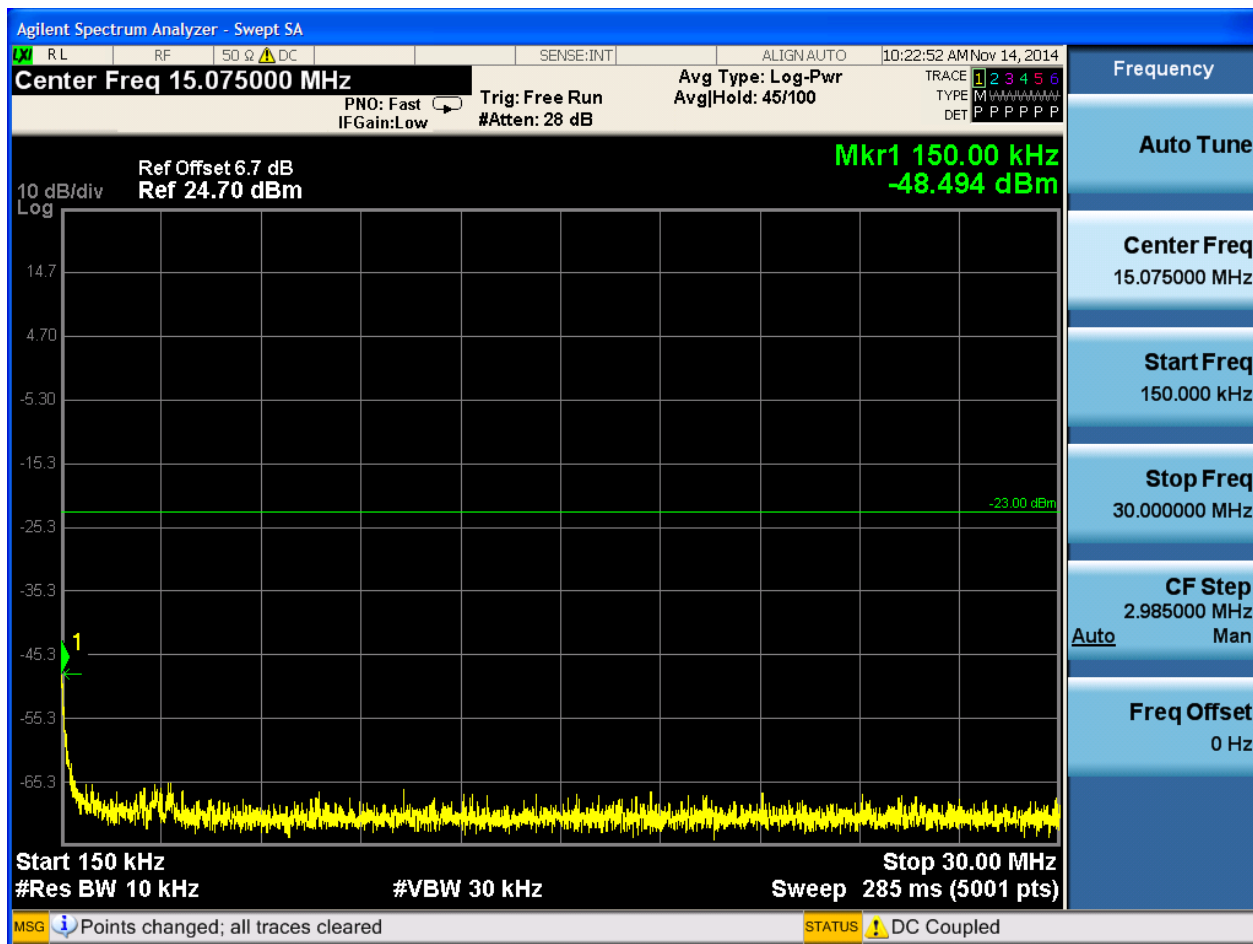


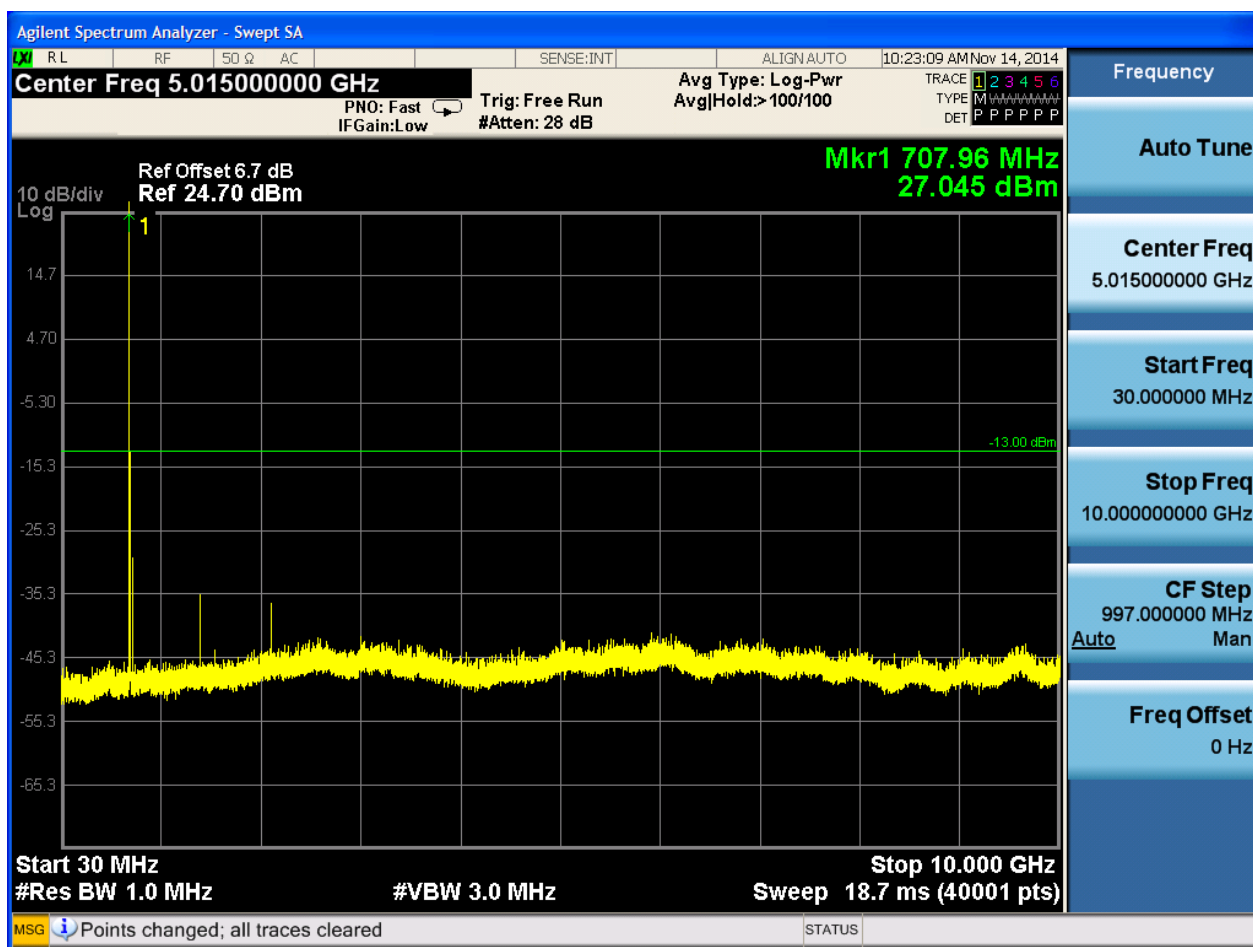


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



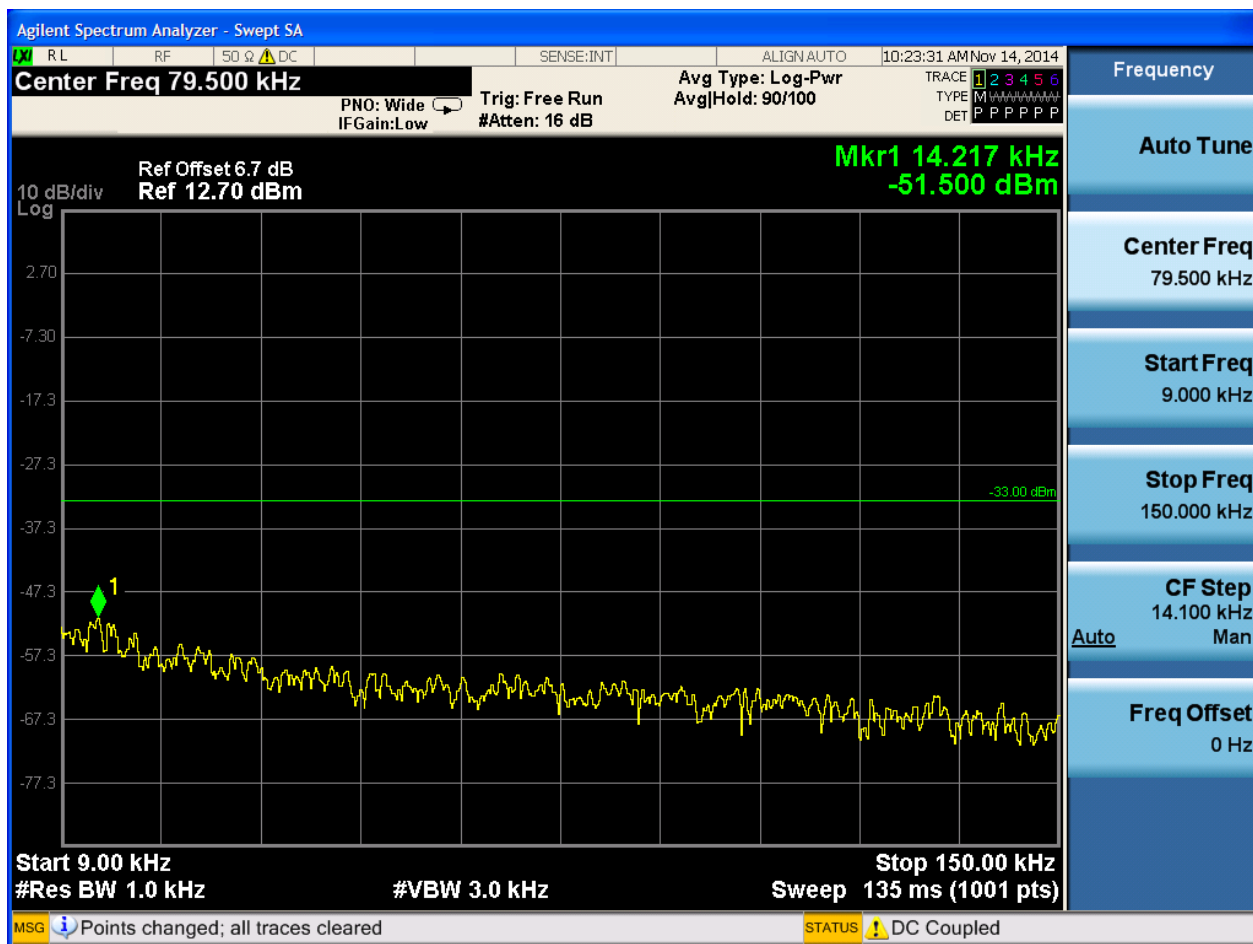


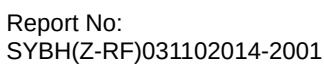
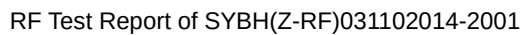


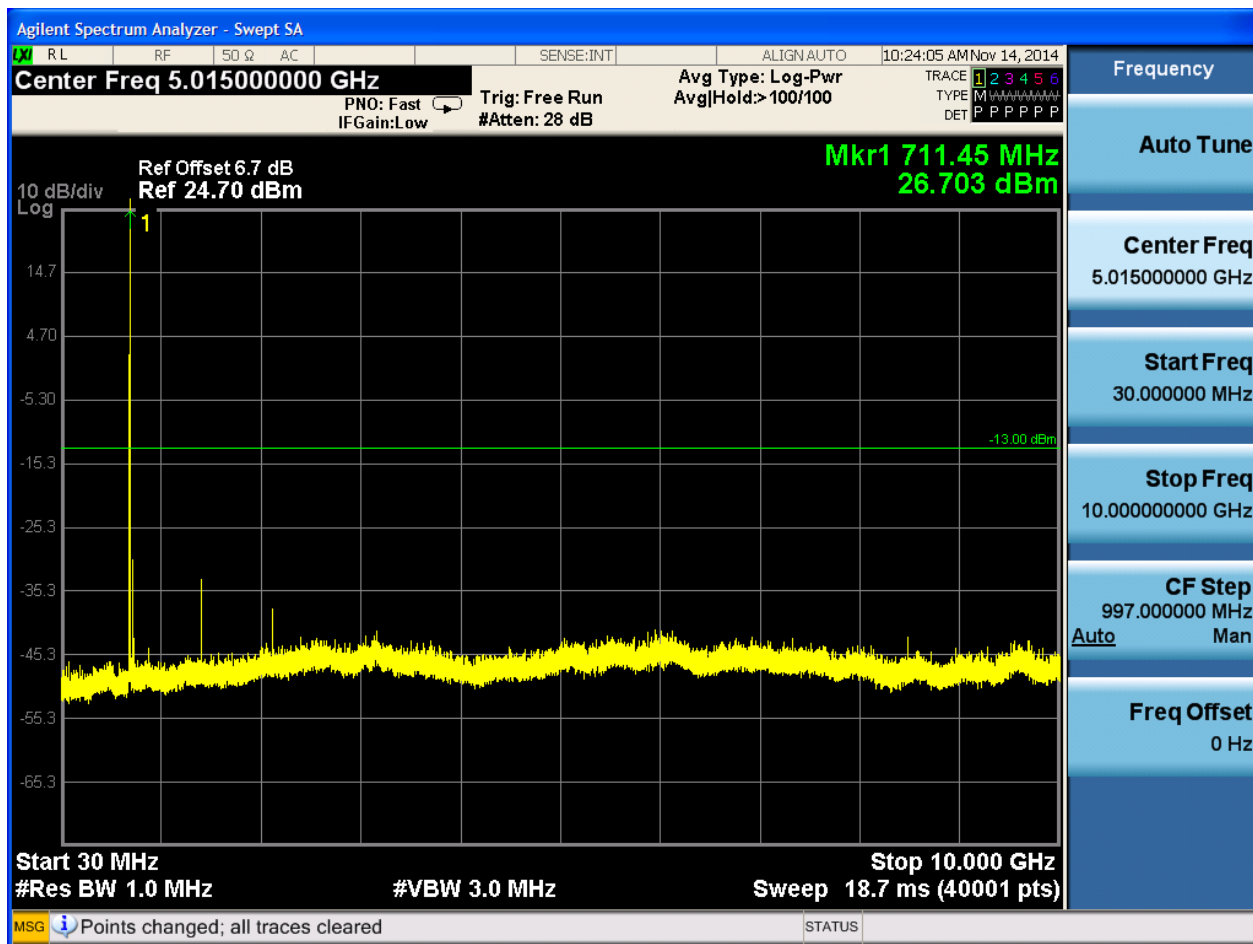


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





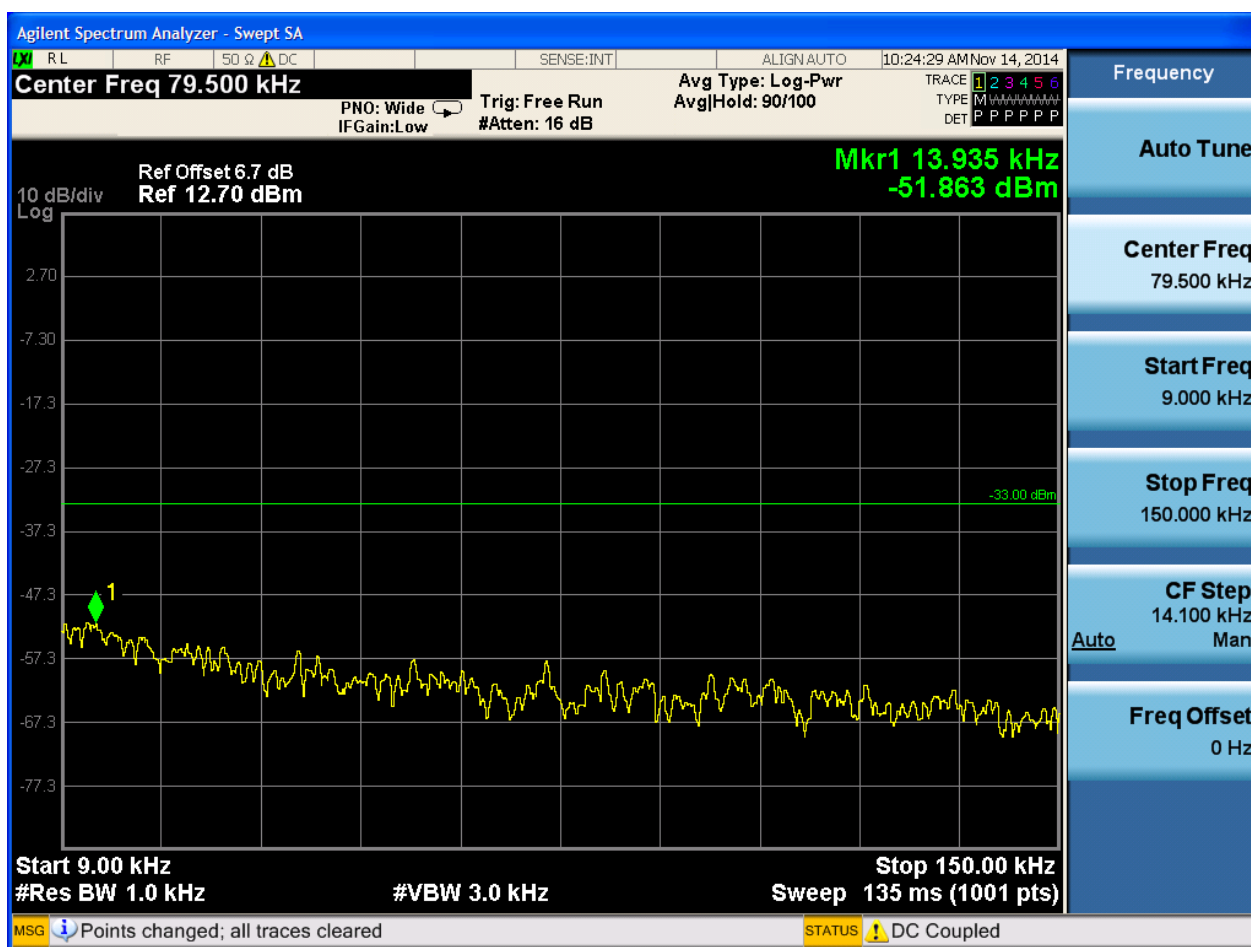


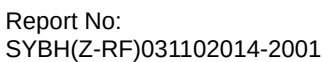
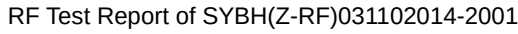


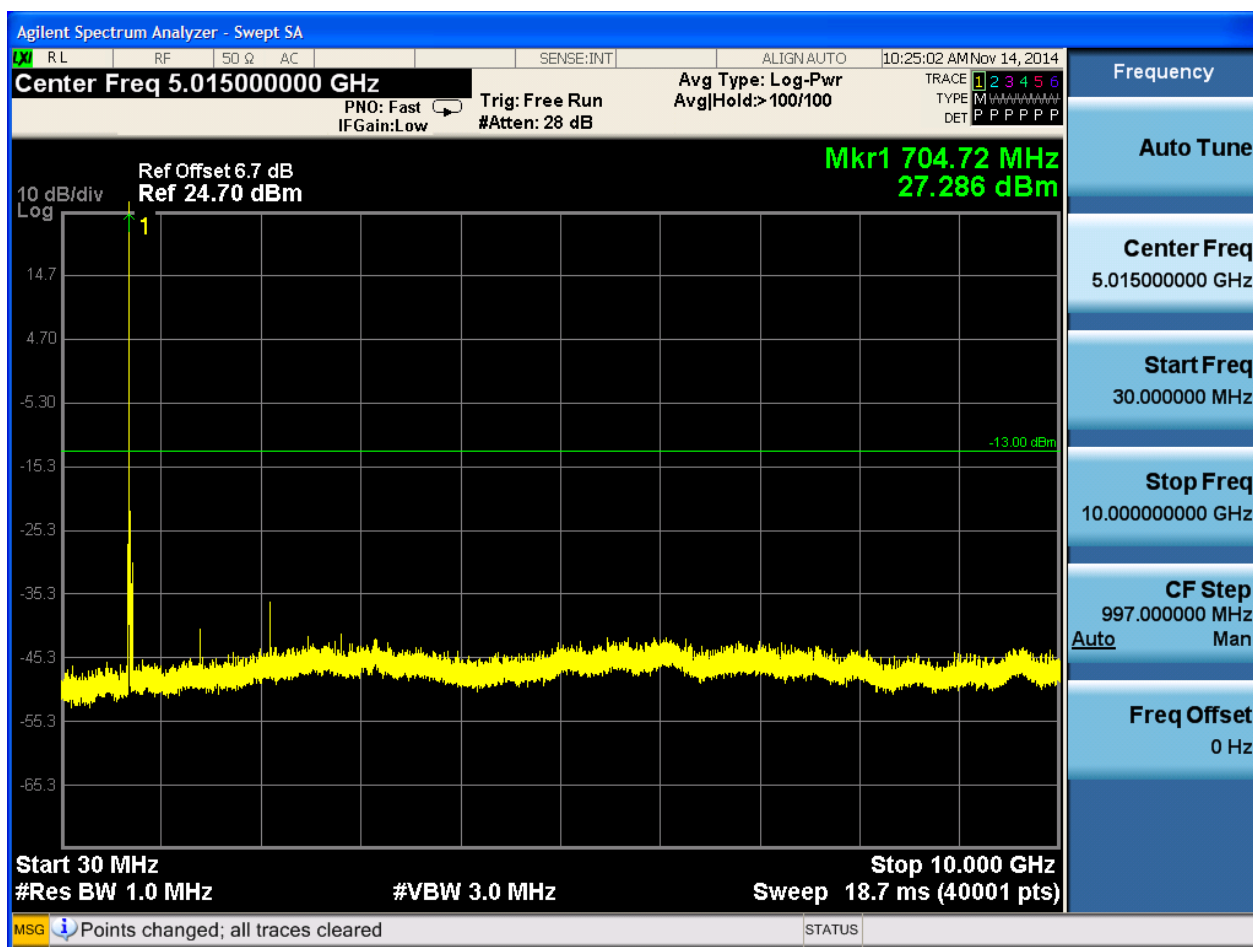
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



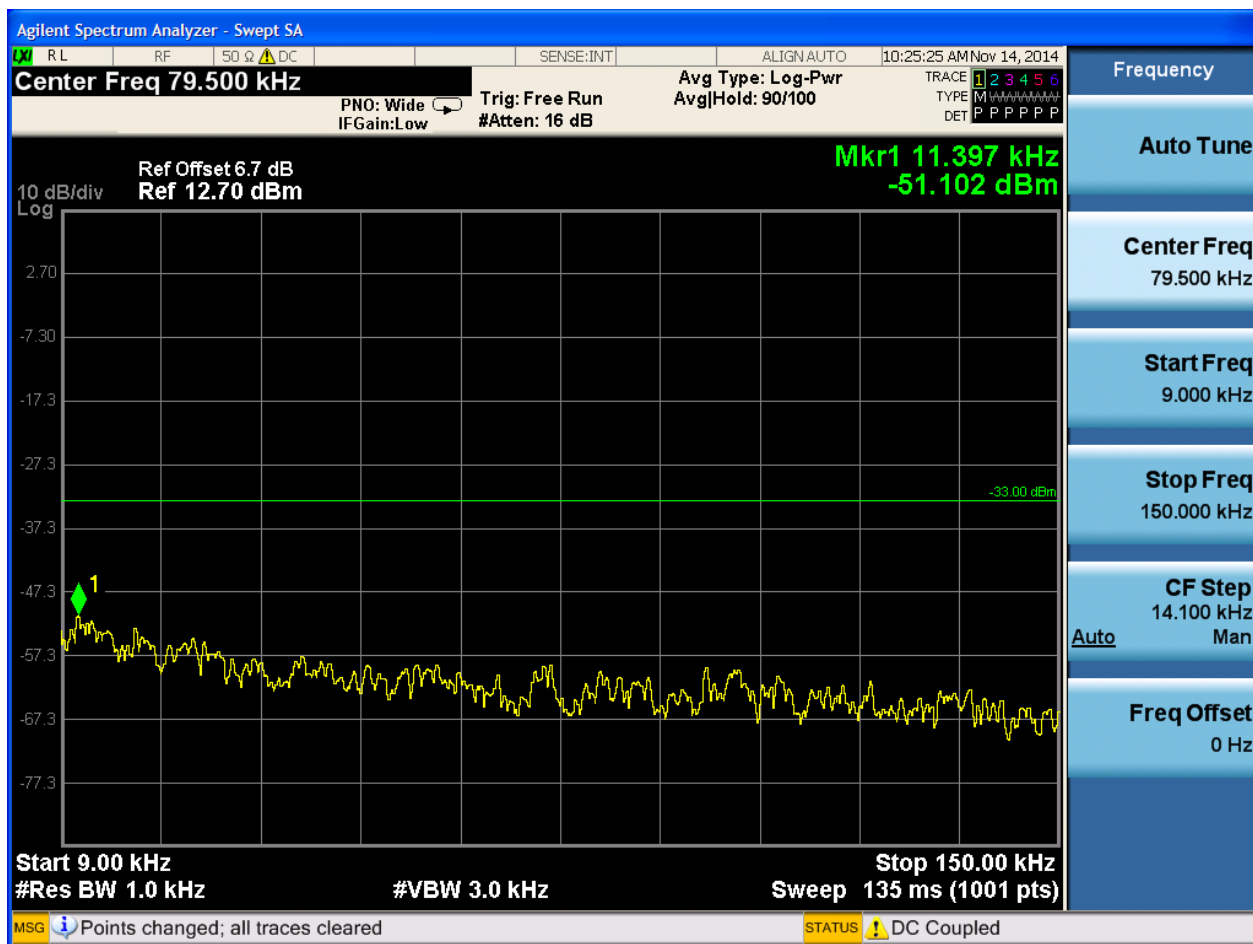


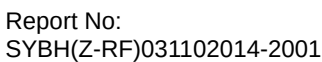
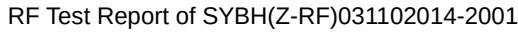


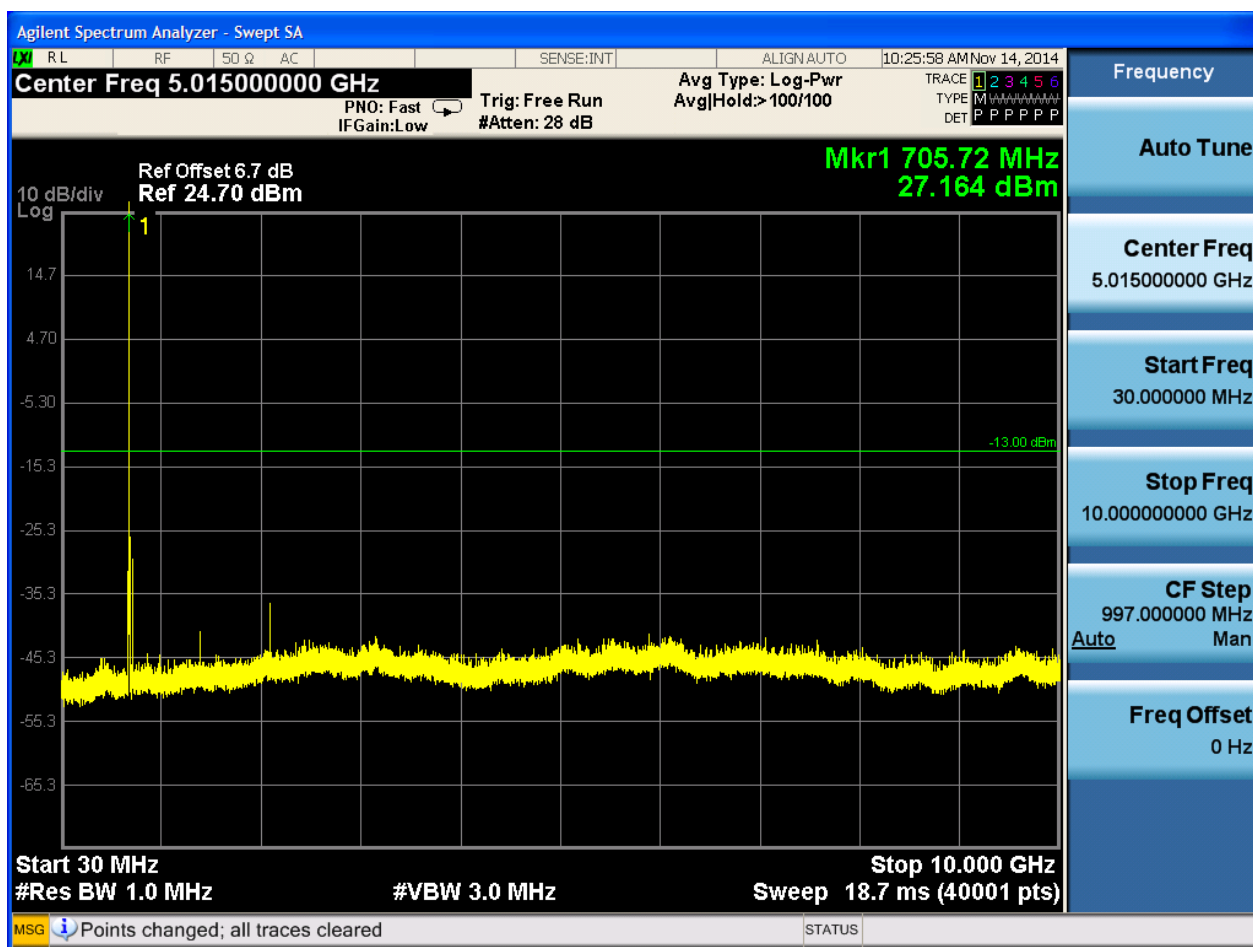


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



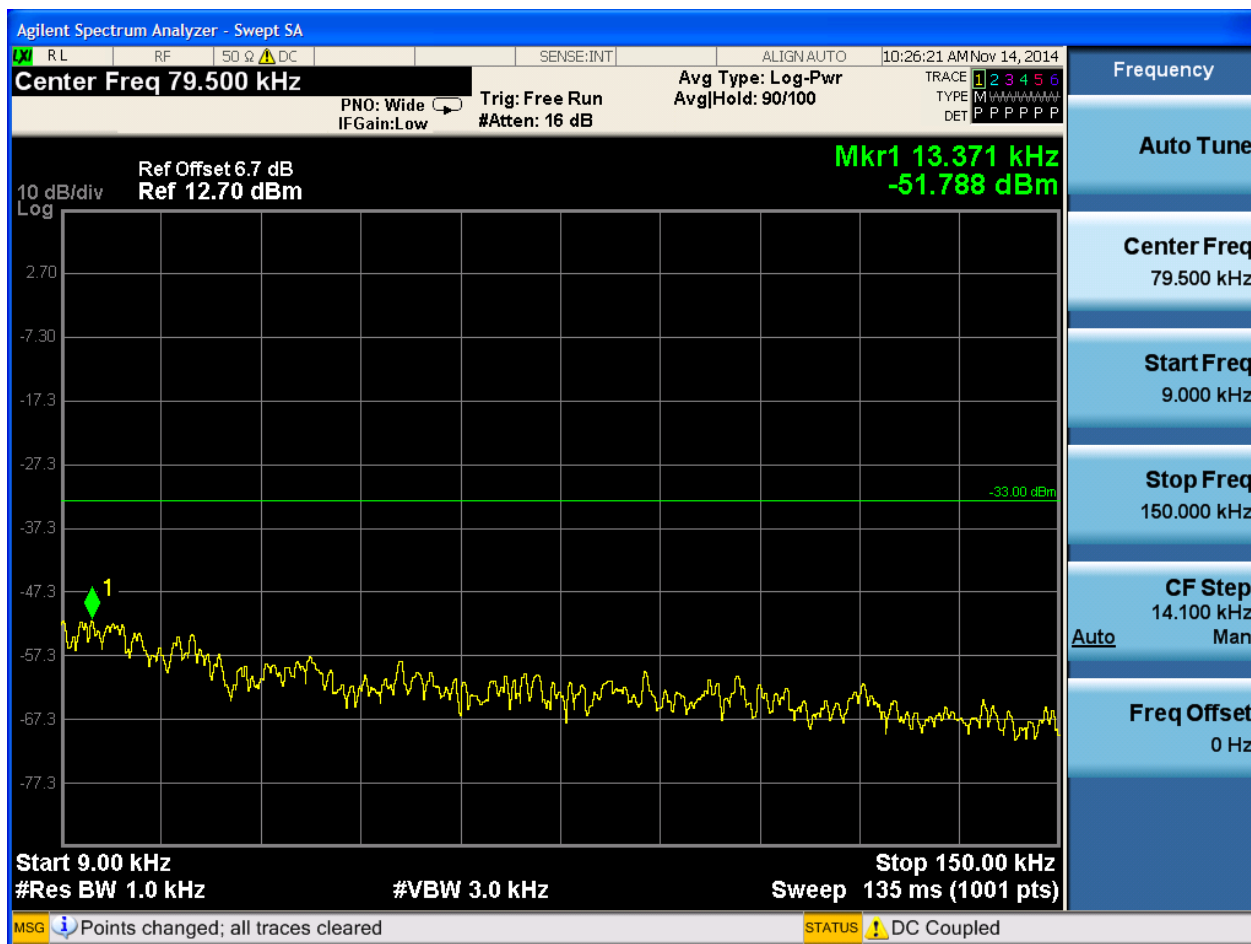




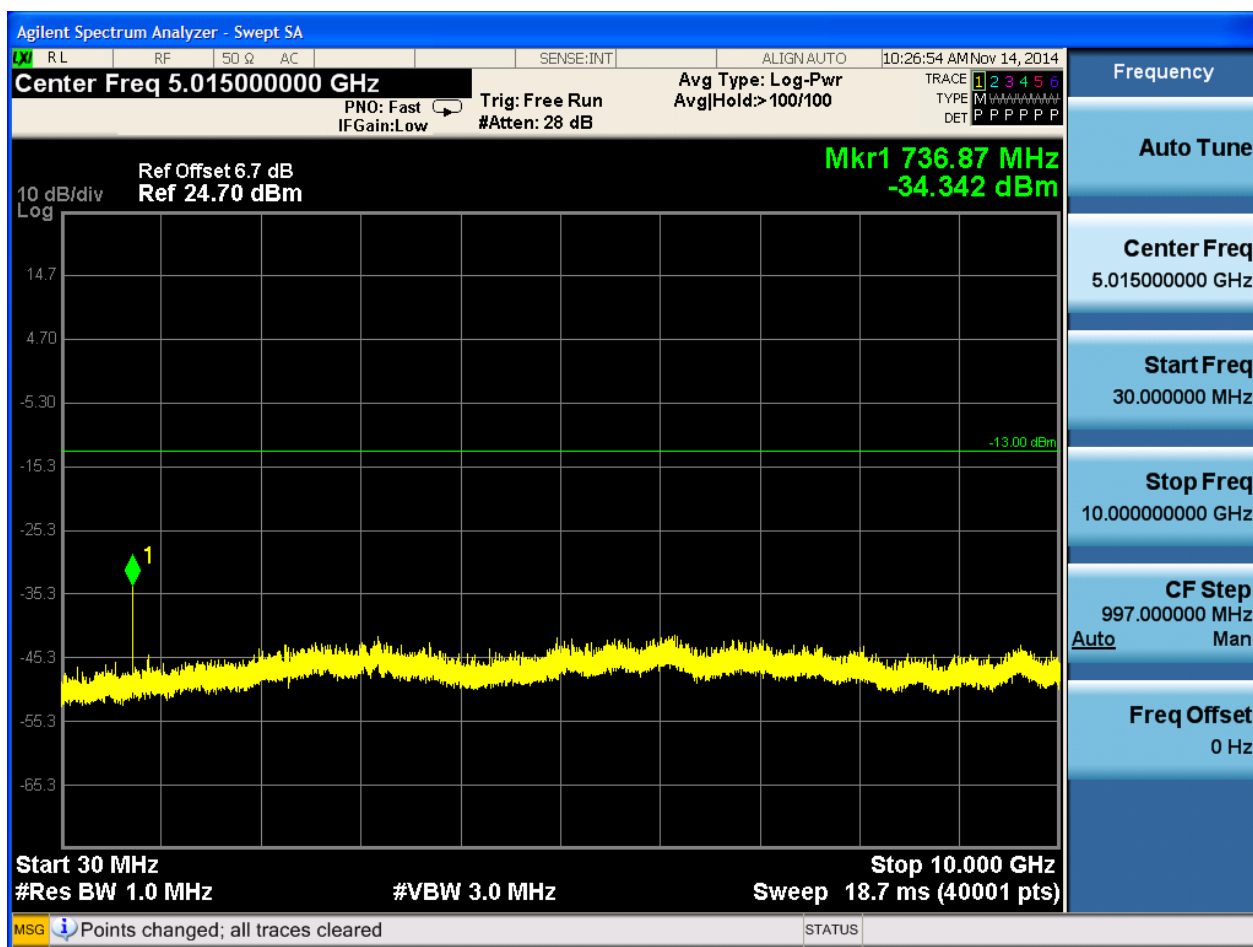


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







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

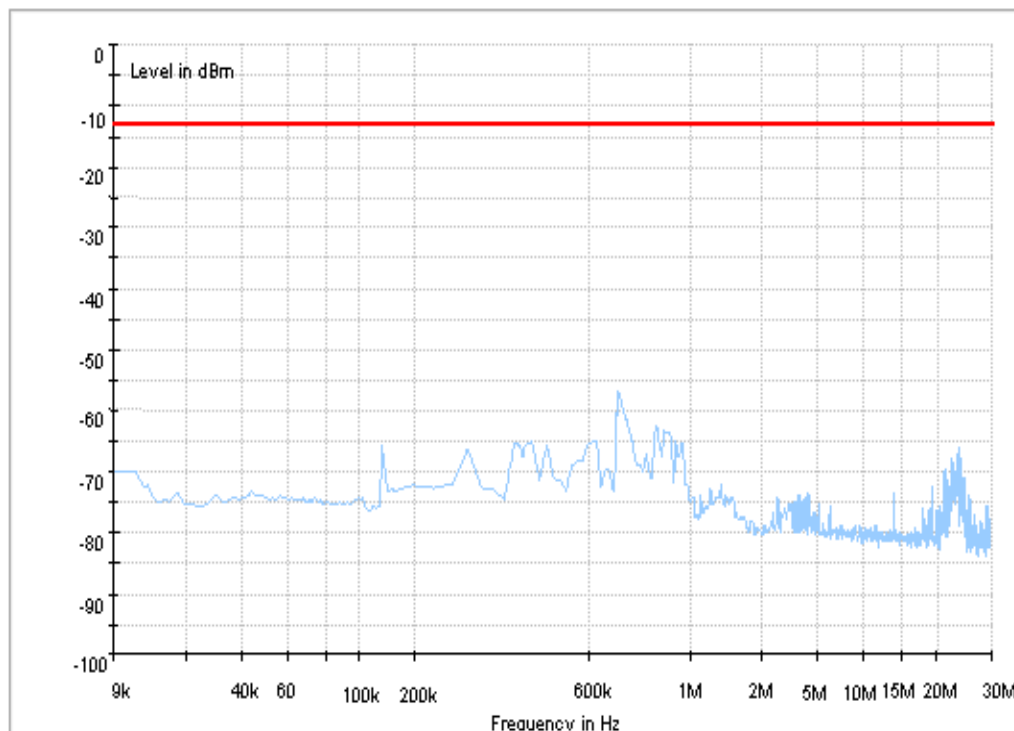
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

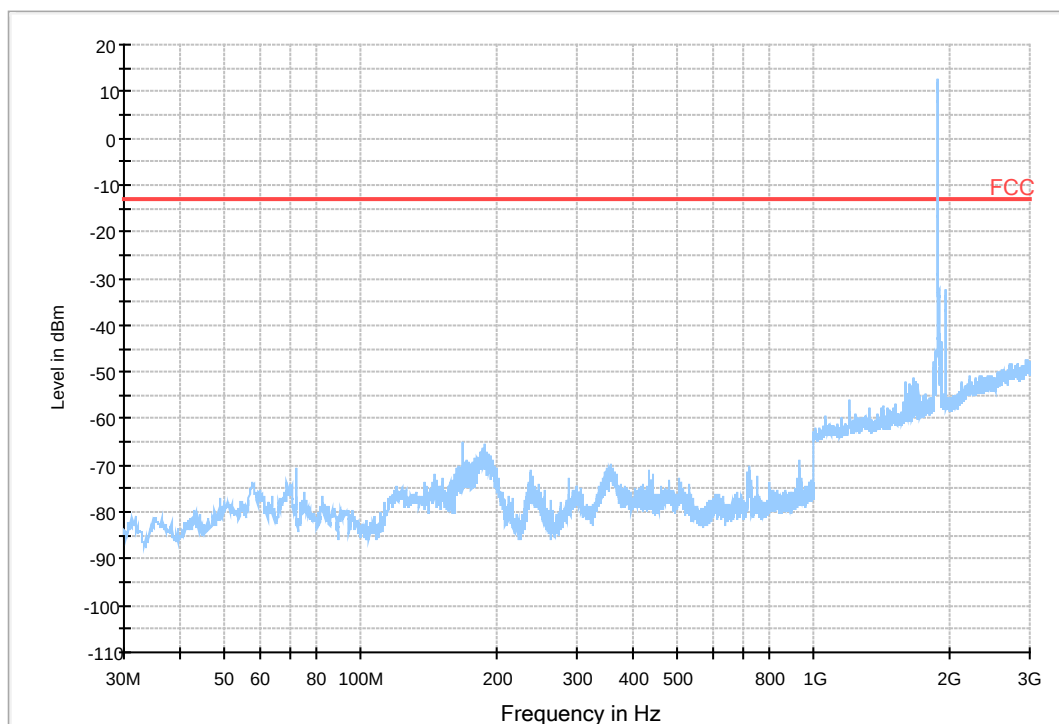
7.2 For UMTS

7.2.1 Test Band = WCDMA1900

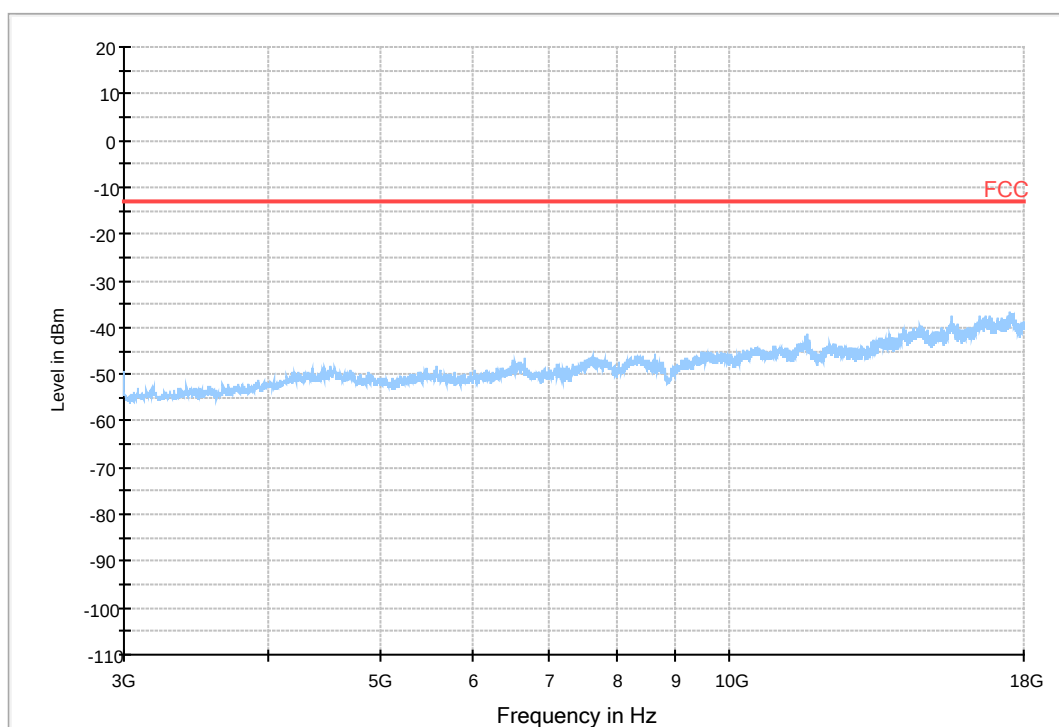
7.2.1.1 Test Mode = UMTS/TM1

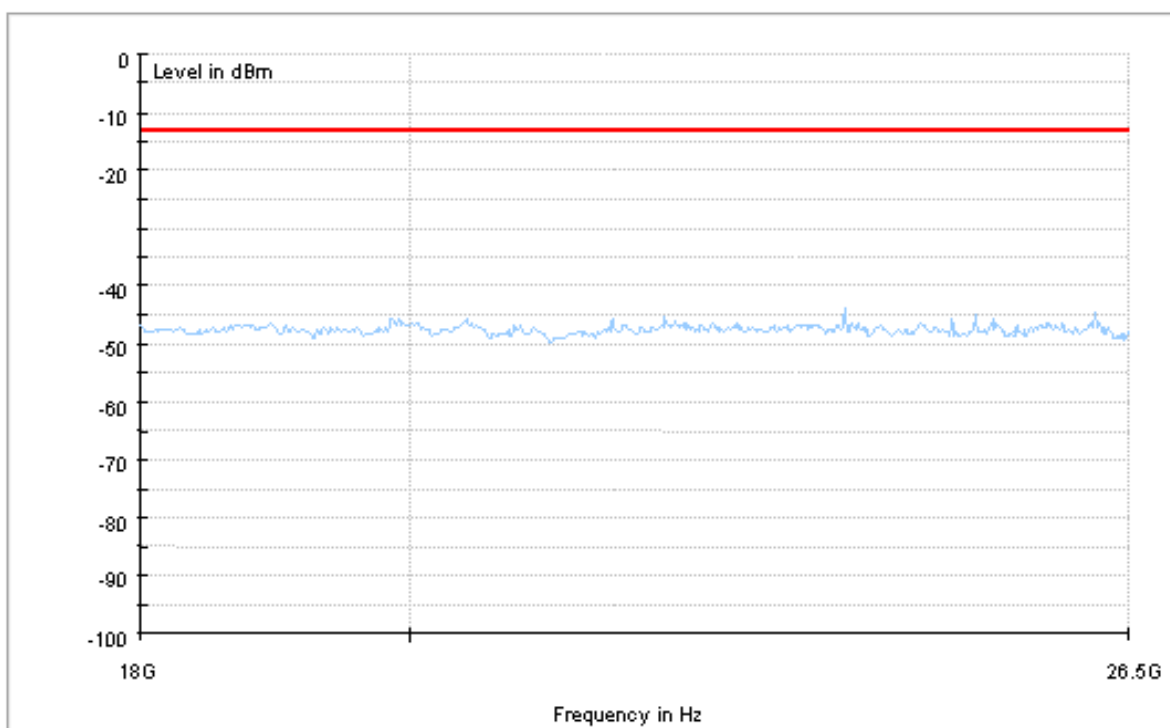


Copy of FCC PART24 WCDMA1900_L



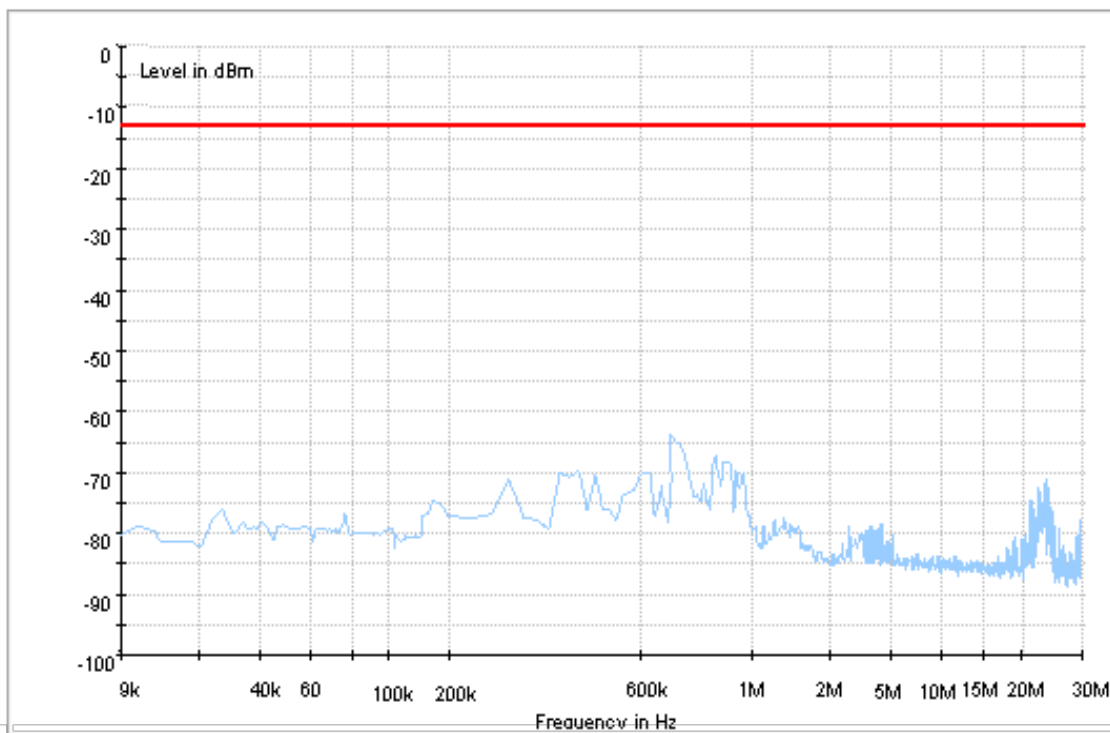
Copy of FCC PART24 WCDMA1900_H



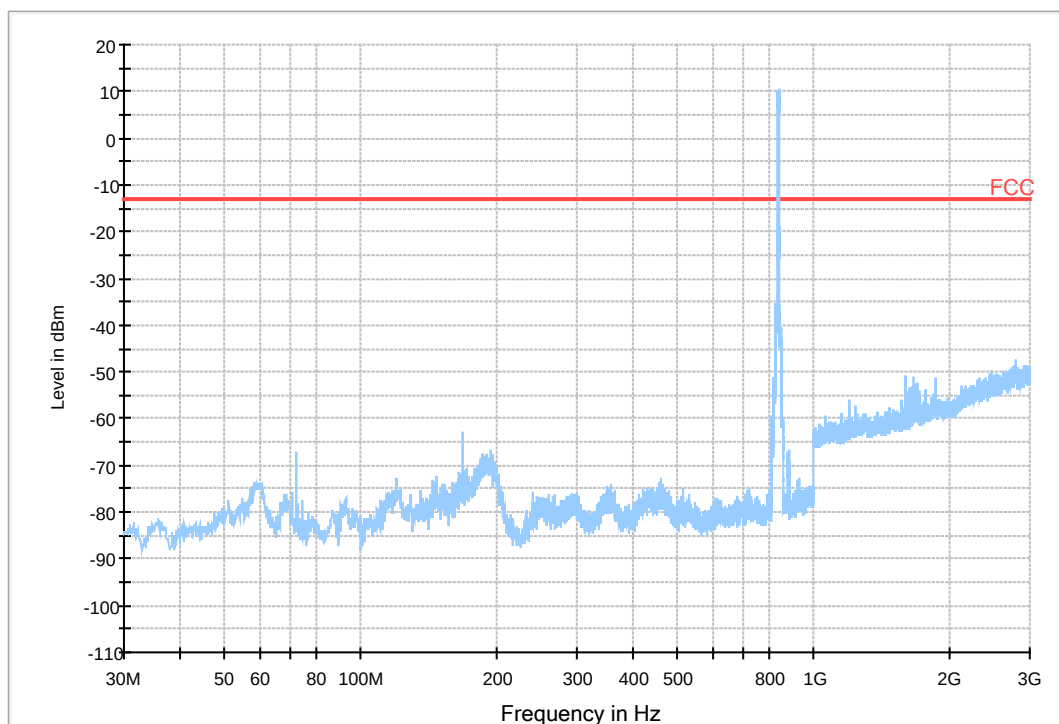


7.2.2 Test Band = WCDMA850

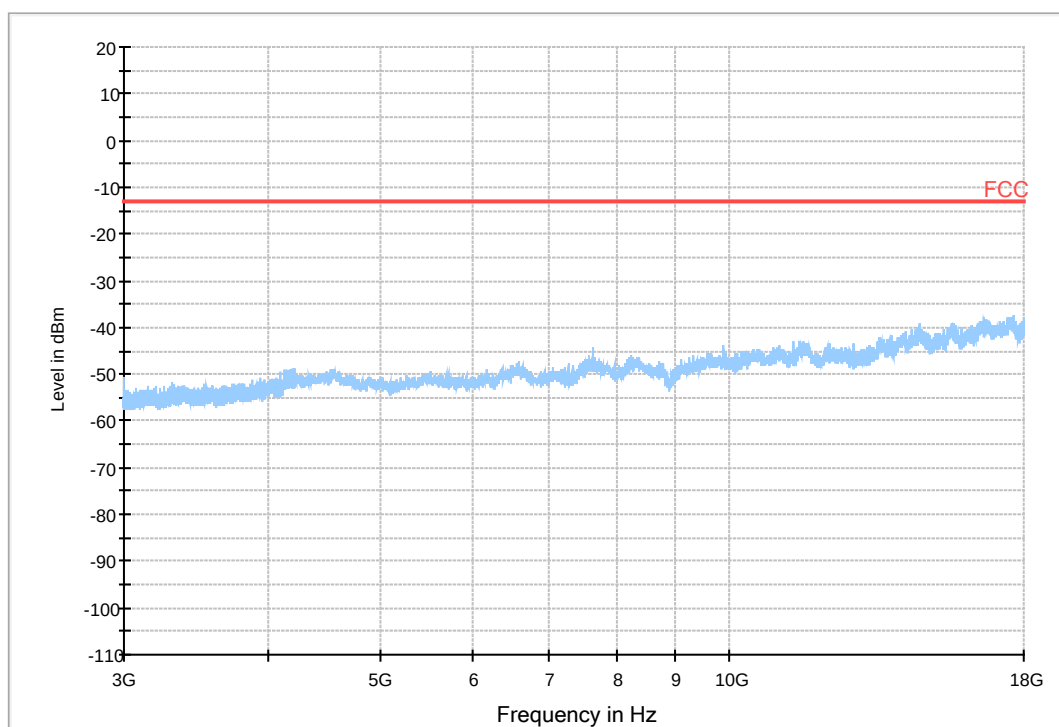
7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART22 LTE Band 5_L



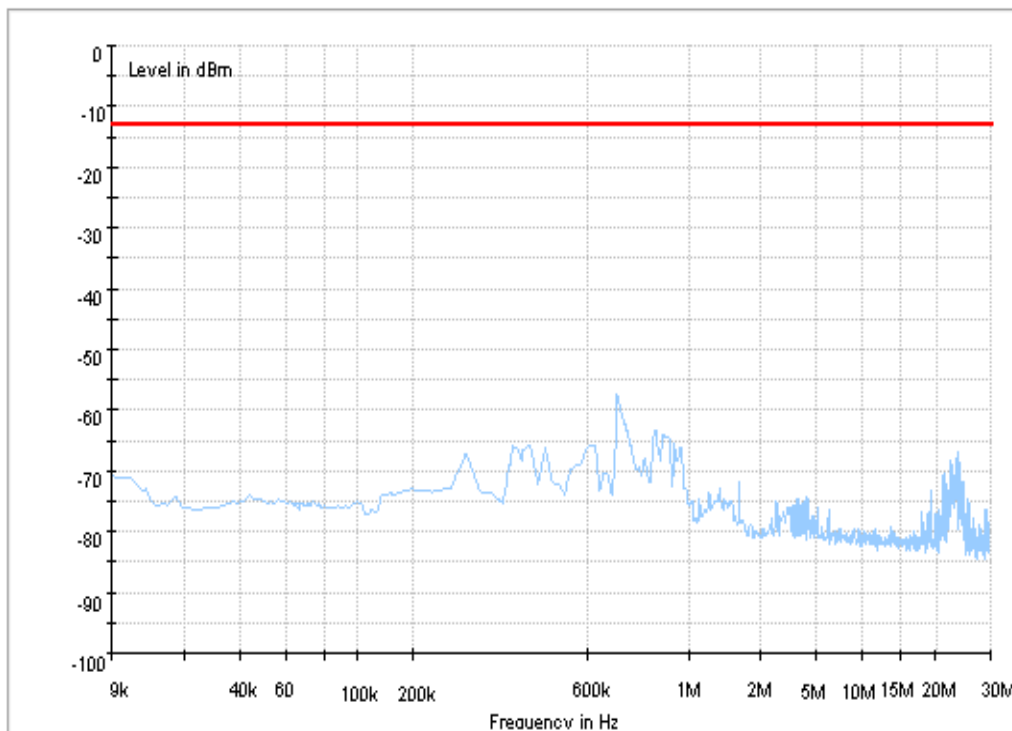
Copy of FCC PART22 LTE Band 5_H



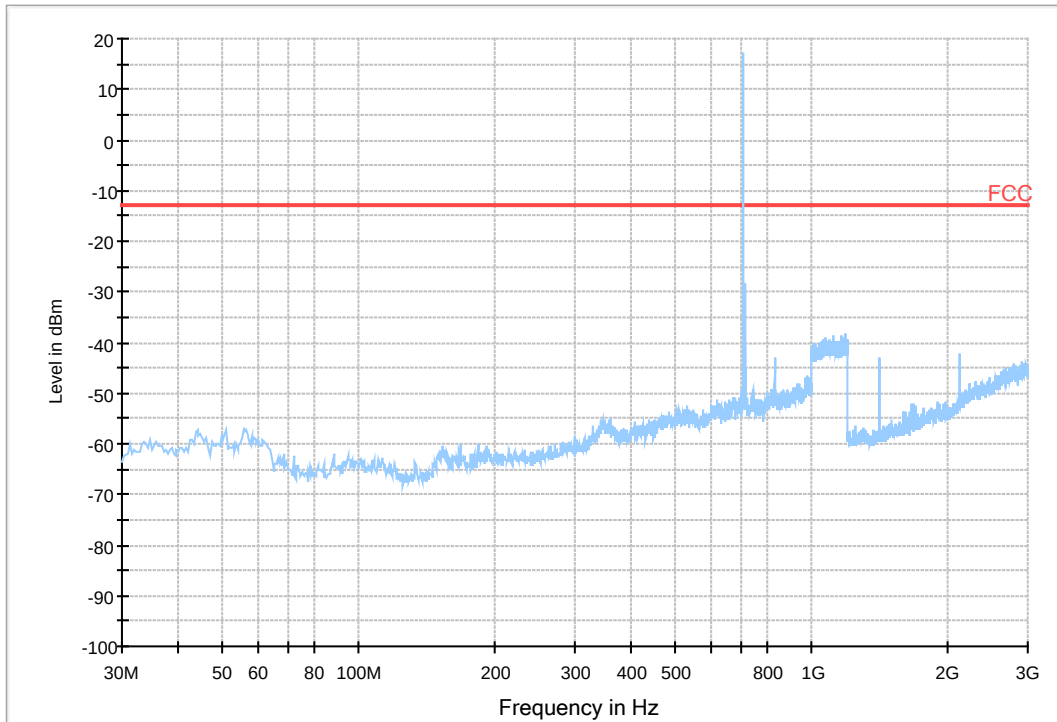
7.1 For LTE

7.1.1 Test Band = BAND17

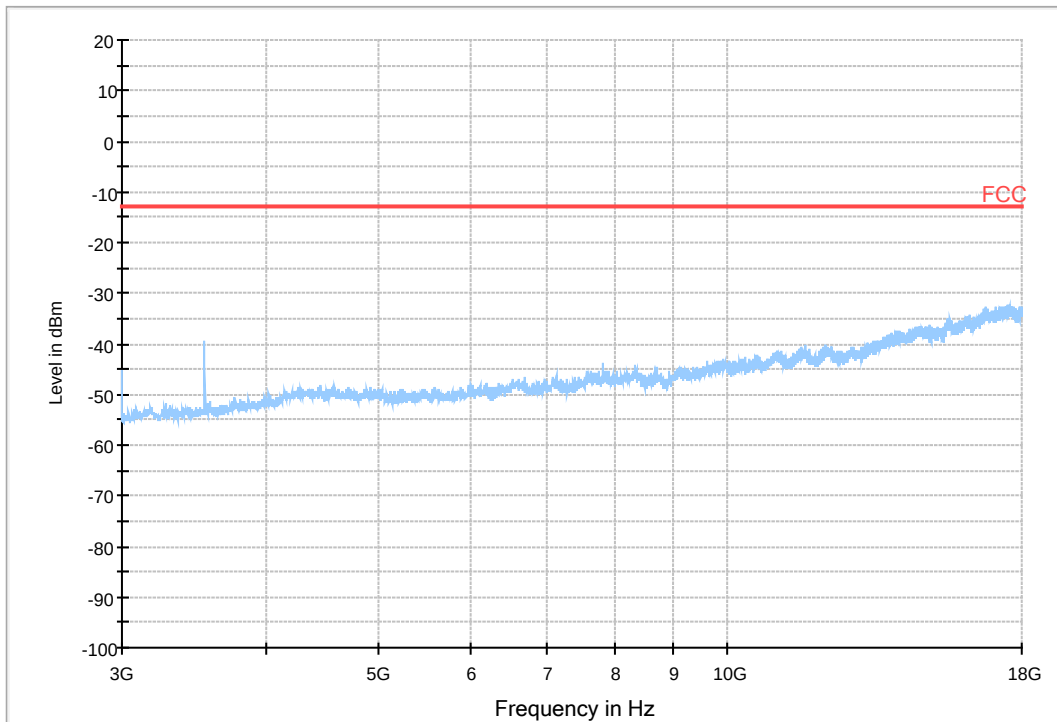
7.1.1.1 Test Bandwidth = 5



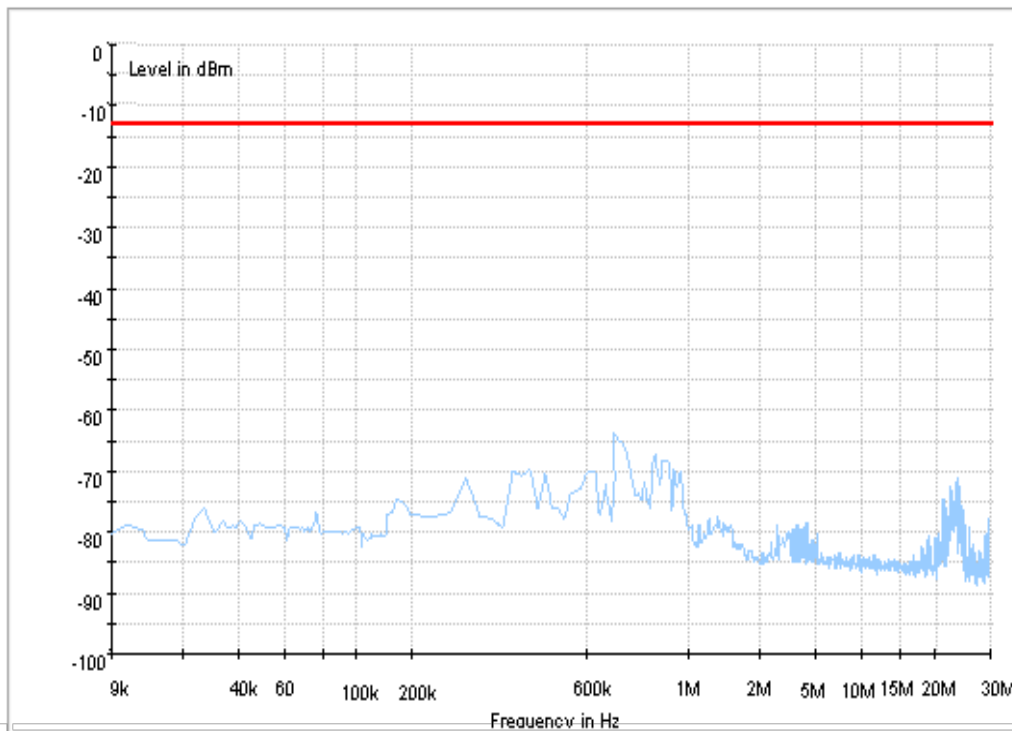
Copy of RSE-TX-DIRECTOR BELOW 1G_L



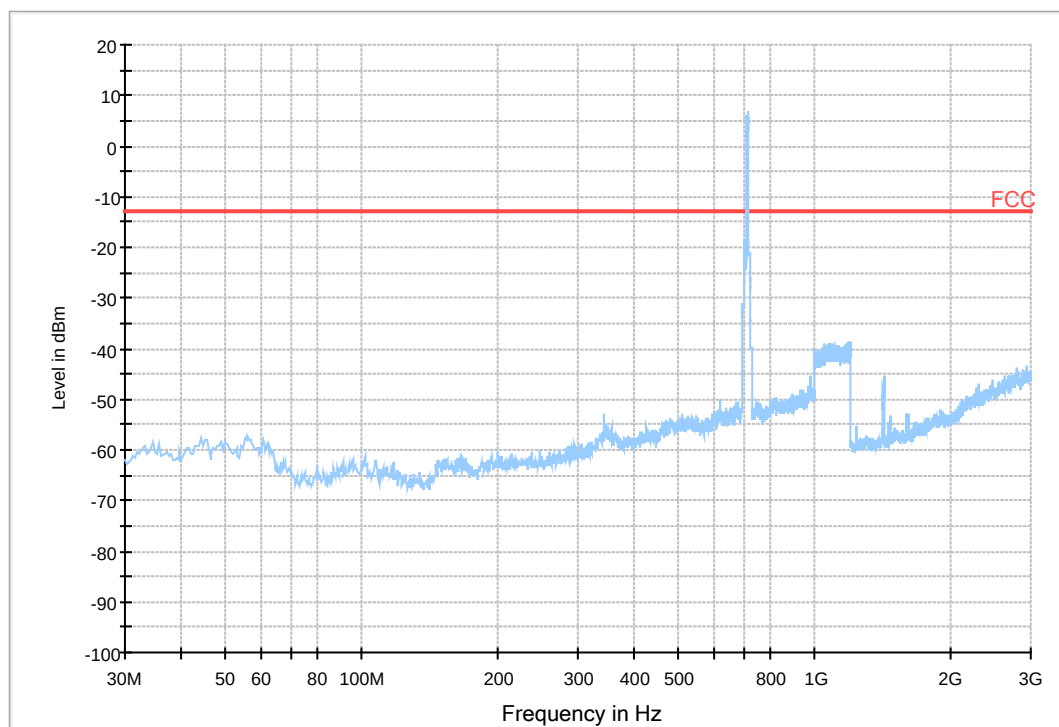
Copy of RSE-TX-DIRECTOR BELOW 1G_H



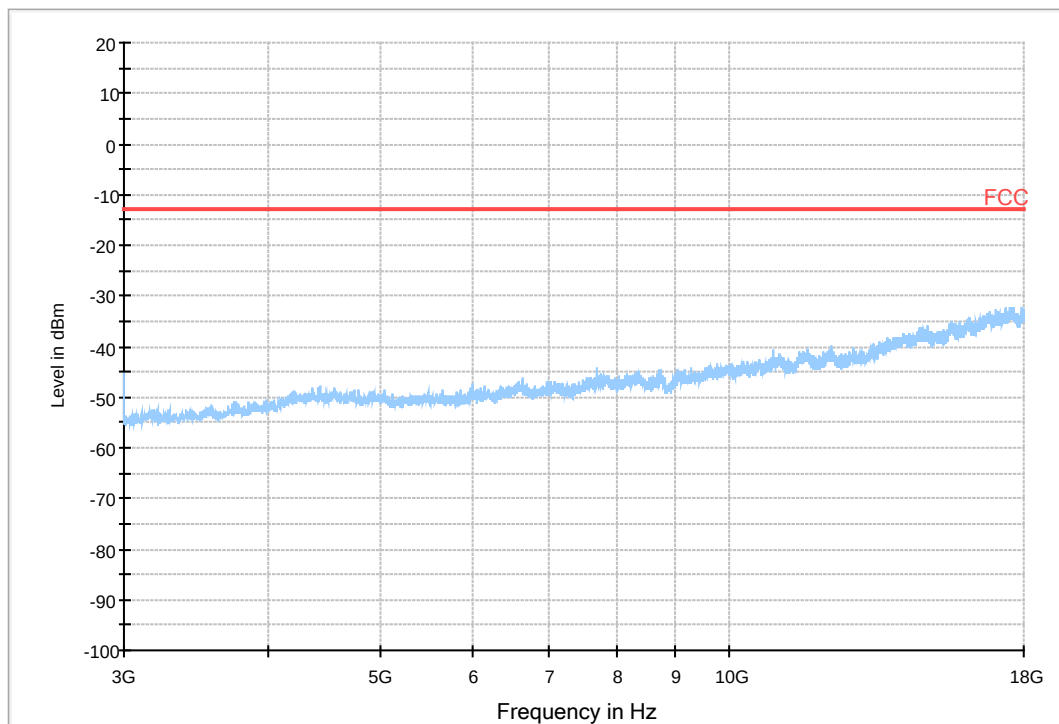
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.2 For UMTS

8.2.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA1900	UMTS/TM1	LCH	TN	VL	-1.04	-0.00056	PASS
				VN	3.51	0.00189	PASS
				VH	-1.43	-0.00077	PASS
		MCH	TN	VL	3.72	0.00198	PASS
				VN	8.90	0.00473	PASS
				VH	4.29	0.00228	PASS
		HCH	TN	VL	1.71	0.0009	PASS
				VN	-1.88	-0.00099	PASS
				VH	-6.85	-0.00359	PASS
WCDMA850	UMTS/TM1	LCH	TN	VL	0.58	0.0007	PASS
				VN	1.07	0.00129	PASS
				VH	1.25	0.00151	PASS
		MCH	TN	VL	1.19	0.00142	PASS
				VN	1.11	0.00133	PASS
				VH	2.15	0.00257	PASS
		HCH	TN	VL	1.28	0.00151	PASS
				VN	-0.72	-0.00085	PASS
				VH	-3.11	-0.00367	PASS

8.2.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA1900	UMTS/TM1	LCH	VN	-30	1.91	0.00103	PASS
				-20	1.66	0.0009	PASS
				-10	-0.98	-0.00053	PASS
				0	0.67	0.00036	PASS
				10	2.06	0.00111	PASS
				20	6.39	0.00345	PASS
				30	3.78	0.00204	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				40	5.23	0.00282	PASS
				50	4.15	0.00224	PASS
		MCH	VN	-30	2.29	0.00122	PASS
				-20	6.44	0.00343	PASS
				-10	-0.87	-0.00046	PASS
				0	0.03	0.00002	PASS
				10	3.19	0.0017	PASS
				20	1.37	0.00073	PASS
				30	0.73	0.00039	PASS
				40	1.72	0.00091	PASS
				50	-0.27	-0.00014	PASS
		HCH	VN	-30	1.48	0.00078	PASS
				-20	-0.05	-0.00003	PASS
				-10	1.54	0.00081	PASS
				0	3.74	0.00196	PASS
				10	-3.69	-0.00193	PASS
				20	0.02	0.00001	PASS
				30	-1.30	-0.00068	PASS
				40	0.00	0	PASS
				50	3.62	0.0019	PASS
WCDMA850	UMTS/TM1	LCH	VN	-30	-0.44	-0.00053	PASS
				-20	-0.27	-0.00033	PASS
				-10	0.75	0.00091	PASS
				0	1.88	0.00227	PASS
				10	1.56	0.00189	PASS
				20	1.91	0.00231	PASS
				30	0.44	0.00053	PASS
				40	1.53	0.00185	PASS
				50	-0.60	-0.00073	PASS
		MCH	VN	-30	2.23	0.00267	PASS
				-20	1.94	0.00232	PASS
				-10	1.27	0.00152	PASS
				0	1.10	0.00132	PASS
				10	-0.32	-0.00038	PASS
				20	0.53	0.00063	PASS
				30	2.38	0.00285	PASS
				40	-0.82	-0.00098	PASS
				50	-0.99	-0.00118	PASS
		HCH	VN	-30	-0.52	-0.00061	PASS
				-20	-0.09	-0.00011	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-10	-1.51	-0.00178	PASS
				0	-2.73	-0.00322	PASS
				10	0.21	0.00025	PASS
				20	0.27	0.00032	PASS
				30	-2.29	-0.0027	PASS
				40	2.08	0.00246	PASS
				50	0.98	0.00116	PASS

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
BAND17	LTE/TM1	5	LCH	TN	VL	-1.17	-0.00166	PASS
					VN	-1.22	-0.00173	PASS
					VH	-0.21	-0.0003	PASS
			MCH	TN	VL	-0.30	-0.00042	PASS
					VN	-0.33	-0.00046	PASS
					VH	-0.99	-0.00139	PASS
			HCH	TN	VL	0.20	0.00028	PASS
					VN	-1.79	-0.00251	PASS
					VH	-0.31	-0.00043	PASS
		10	LCH	TN	VL	-1.82	-0.00257	PASS
					VN	-1.27	-0.00179	PASS
					VH	-1.73	-0.00244	PASS
			MCH	TN	VL	-2.40	-0.00338	PASS
					VN	-1.04	-0.00146	PASS
					VH	-1.52	-0.00214	PASS
			HCH	TN	VL	-3.75	-0.00527	PASS
					VN	-3.49	-0.00491	PASS
					VH	-4.36	-0.00613	PASS
	LTE/TM2	5	LCH	TN	VL	-0.04	-0.00006	PASS
					VN	-0.62	-0.00088	PASS
					VH	-1.29	-0.00183	PASS
			MCH	TN	VL	0.73	0.00103	PASS
					VN	0.34	0.00048	PASS
					VH	-0.69	-0.00097	PASS
			HCH	TN	VL	-0.07	-0.0001	PASS
					VN	-1.87	-0.00262	PASS
					VH	-1.32	-0.00185	PASS
		10	LCH	TN	VL	-2.53	-0.00357	PASS
					VN	-1.60	-0.00226	PASS
					VH	-3.55	-0.00501	PASS
			MCH	TN	VL	-0.79	-0.00111	PASS
					VN	-2.86	-0.00403	PASS
					VH	-2.23	-0.00314	PASS
			HCH	TN	VL	-1.72	-0.00242	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-1.97	-0.00277	PASS
					VH	-2.88	-0.00405	PASS

8.1.2 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
BAND17	LTE/TM1	5	LCH	VN	-30	-1.19	-0.00168	PASS
					-20	-1.37	-0.00194	PASS
					-10	-1.99	-0.00282	PASS
					0	-2.83	-0.00401	PASS
					10	-1.82	-0.00258	PASS
					20	-1.66	-0.00235	PASS
					30	-1.50	-0.00212	PASS
					40	-1.97	-0.00279	PASS
					50	-2.30	-0.00326	PASS
			MCH	VN	-30	-1.60	-0.00225	PASS
					-20	-0.56	-0.00079	PASS
					-10	-1.67	-0.00235	PASS
					0	-0.41	-0.00058	PASS
					10	-1.07	-0.00151	PASS
					20	-0.09	-0.00013	PASS
					30	-1.82	-0.00256	PASS
					40	-1.67	-0.00235	PASS
					50	-1.83	-0.00258	PASS
			HCH	VN	-30	-1.75	-0.00245	PASS
					-20	-1.40	-0.00196	PASS
					-10	-2.75	-0.00385	PASS
					0	-1.23	-0.00172	PASS
					10	-1.33	-0.00186	PASS
					20	0.04	0.00006	PASS
					30	-0.41	-0.00057	PASS
					40	-0.76	-0.00107	PASS
					50	-1.04	-0.00146	PASS
		10	LCH	VN	-30	-0.96	-0.00135	PASS
					-20	-2.20	-0.0031	PASS
					-10	-1.36	-0.00192	PASS
					0	-0.79	-0.00111	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5			10	-1.19	-0.00168	PASS
					20	-1.54	-0.00217	PASS
					30	-0.70	-0.00099	PASS
					40	-1.85	-0.00261	PASS
					50	-0.89	-0.00126	PASS
			MCH	VN	-30	-1.29	-0.00182	PASS
					-20	-0.66	-0.00093	PASS
					-10	-2.56	-0.00361	PASS
					0	-1.29	-0.00182	PASS
					10	-0.50	-0.0007	PASS
					20	-0.93	-0.00131	PASS
					30	-1.77	-0.00249	PASS
					40	-0.84	-0.00118	PASS
					50	0.19	0.00027	PASS
			HCH	VN	-30	-2.06	-0.0029	PASS
					-20	-4.22	-0.00594	PASS
					-10	-4.23	-0.00595	PASS
					0	-2.29	-0.00322	PASS
					10	-2.33	-0.00328	PASS
					20	-3.55	-0.00499	PASS
					30	-2.73	-0.00384	PASS
					40	-3.29	-0.00463	PASS
					50	-1.16	-0.00163	PASS
			LCH	VN	-30	-0.03	-0.00004	PASS
					-20	0.34	0.00048	PASS
					-10	-1.27	-0.0018	PASS
					0	0.60	0.00085	PASS
					10	-1.16	-0.00164	PASS
					20	-0.20	-0.00028	PASS
					30	-0.40	-0.00057	PASS
					40	-0.44	-0.00062	PASS
					50	-0.64	-0.00091	PASS
			MCH	VN	-30	1.97	0.00277	PASS
					-20	0.59	0.00083	PASS
					-10	0.87	0.00123	PASS
					0	1.07	0.00151	PASS
					10	1.63	0.0023	PASS
					20	1.46	0.00206	PASS
					30	0.93	0.00131	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	3.00	0.00423	PASS
					50	-0.04	-0.00006	PASS
			HCH	VN	-30	-0.59	-0.00083	PASS
					-20	-0.84	-0.00118	PASS
					-10	-0.10	-0.00014	PASS
					0	0.11	0.00015	PASS
					10	-0.27	-0.00038	PASS
					20	-1.20	-0.00168	PASS
					30	-0.39	-0.00055	PASS
					40	-0.09	-0.00013	PASS
					50	1.22	0.00171	PASS
		10	LCH	VN	-30	-1.17	-0.00165	PASS
					-20	0.21	0.0003	PASS
					-10	-0.10	-0.00014	PASS
					0	-1.65	-0.00233	PASS
					10	1.33	0.00188	PASS
					20	-0.73	-0.00103	PASS
					30	0.13	0.00018	PASS
					40	0.40	0.00056	PASS
					50	0.66	0.00093	PASS
			MCH	VN	-30	0.74	0.00104	PASS
					-20	0.82	0.00115	PASS
					-10	2.06	0.0029	PASS
					0	0.47	0.00066	PASS
					10	1.13	0.00159	PASS
					20	0.70	0.00099	PASS
					30	1.99	0.0028	PASS
					40	0.30	0.00042	PASS
					50	1.50	0.00211	PASS
			HCH	VN	-30	-3.09	-0.00435	PASS
					-20	-3.16	-0.00444	PASS
					-10	-2.10	-0.00295	PASS
					0	-2.30	-0.00323	PASS
					10	-1.09	-0.00153	PASS
					20	-2.00	-0.00281	PASS
					30	-1.57	-0.00221	PASS
					40	-3.19	-0.00449	PASS
					50	-3.00	-0.00422	PASS



END