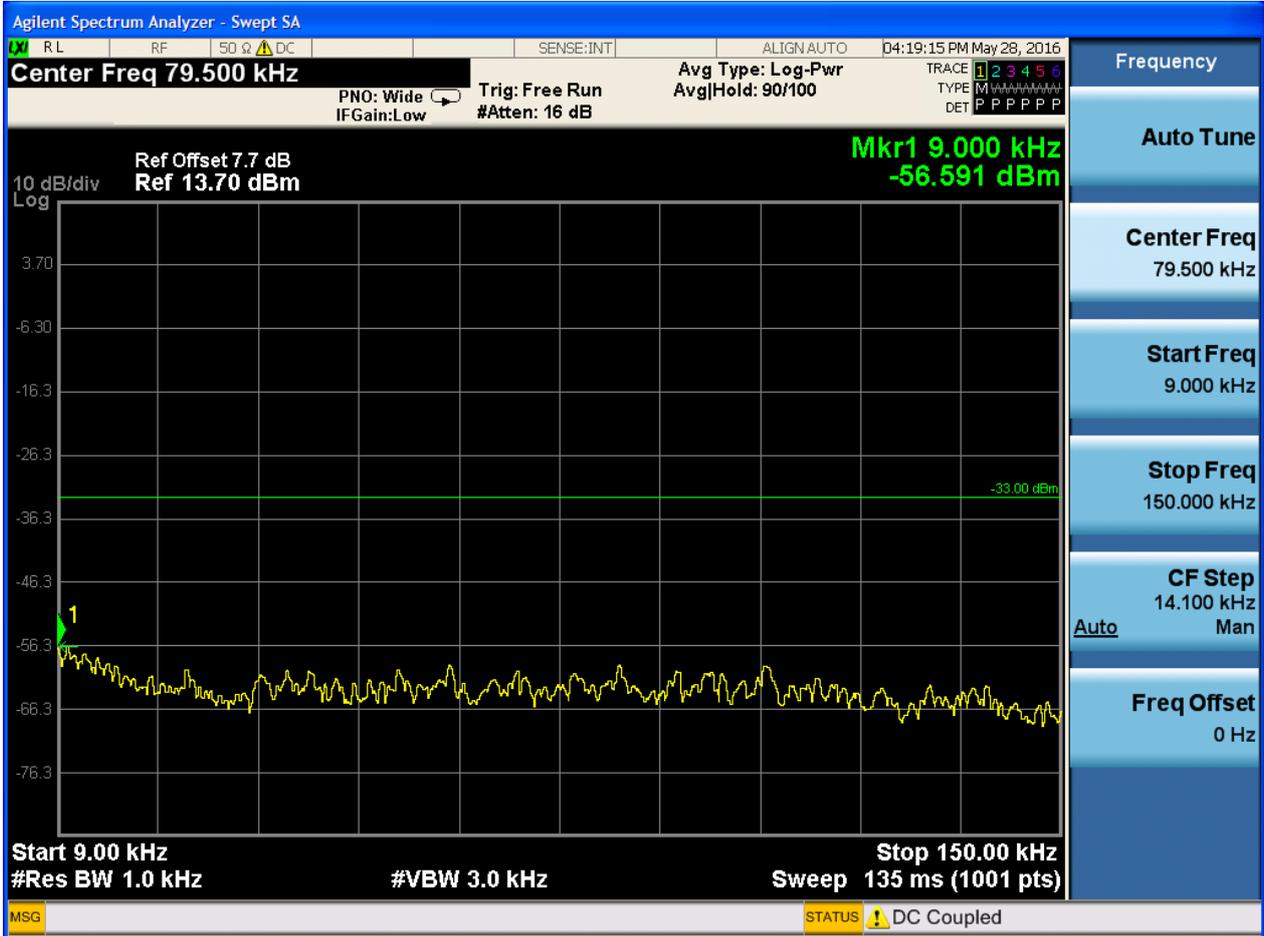
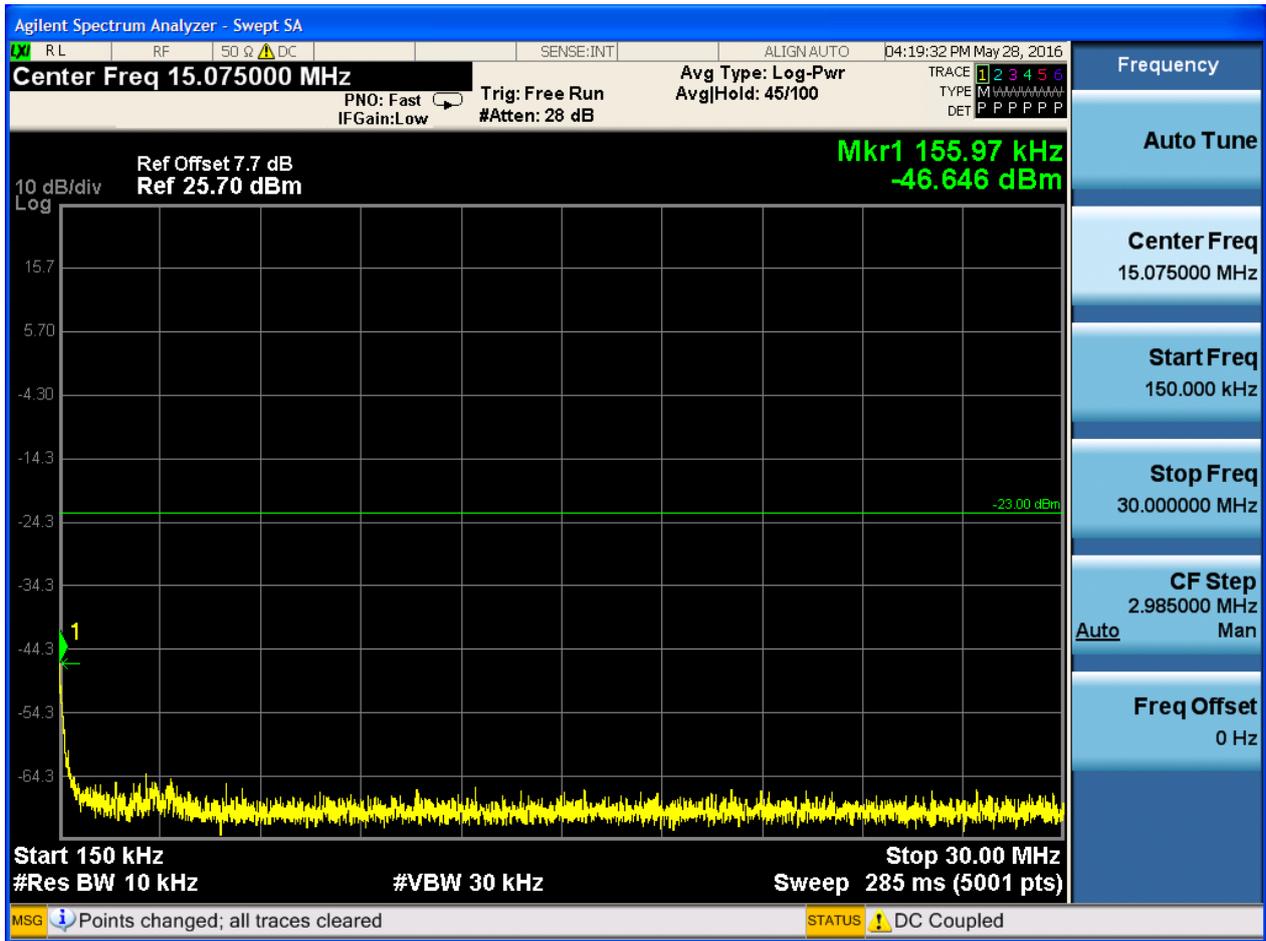
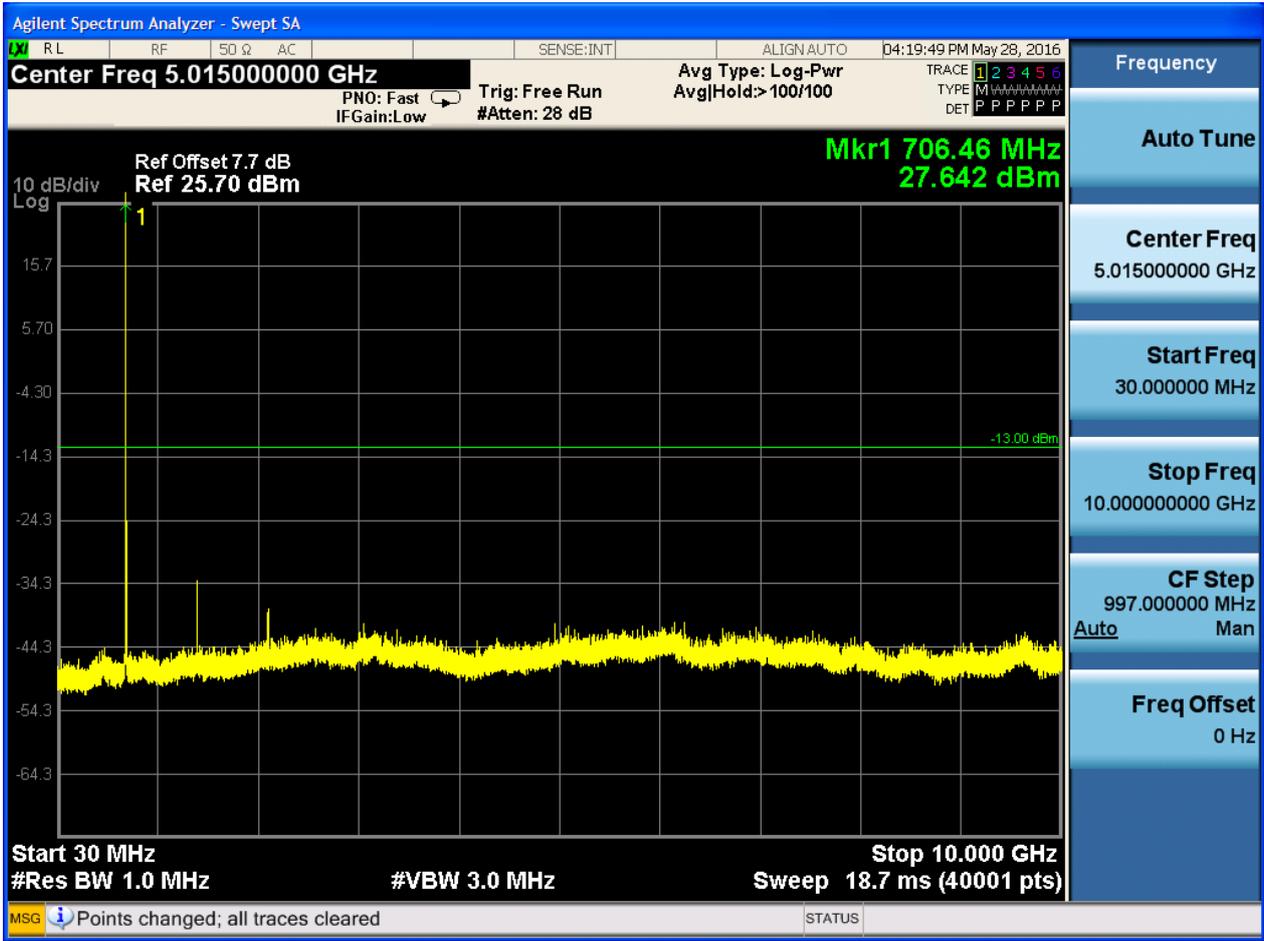


6.1.3.1.2.2 Test Channel = MCH

6.1.3.1.2.2.1 Test RB = RB1#0

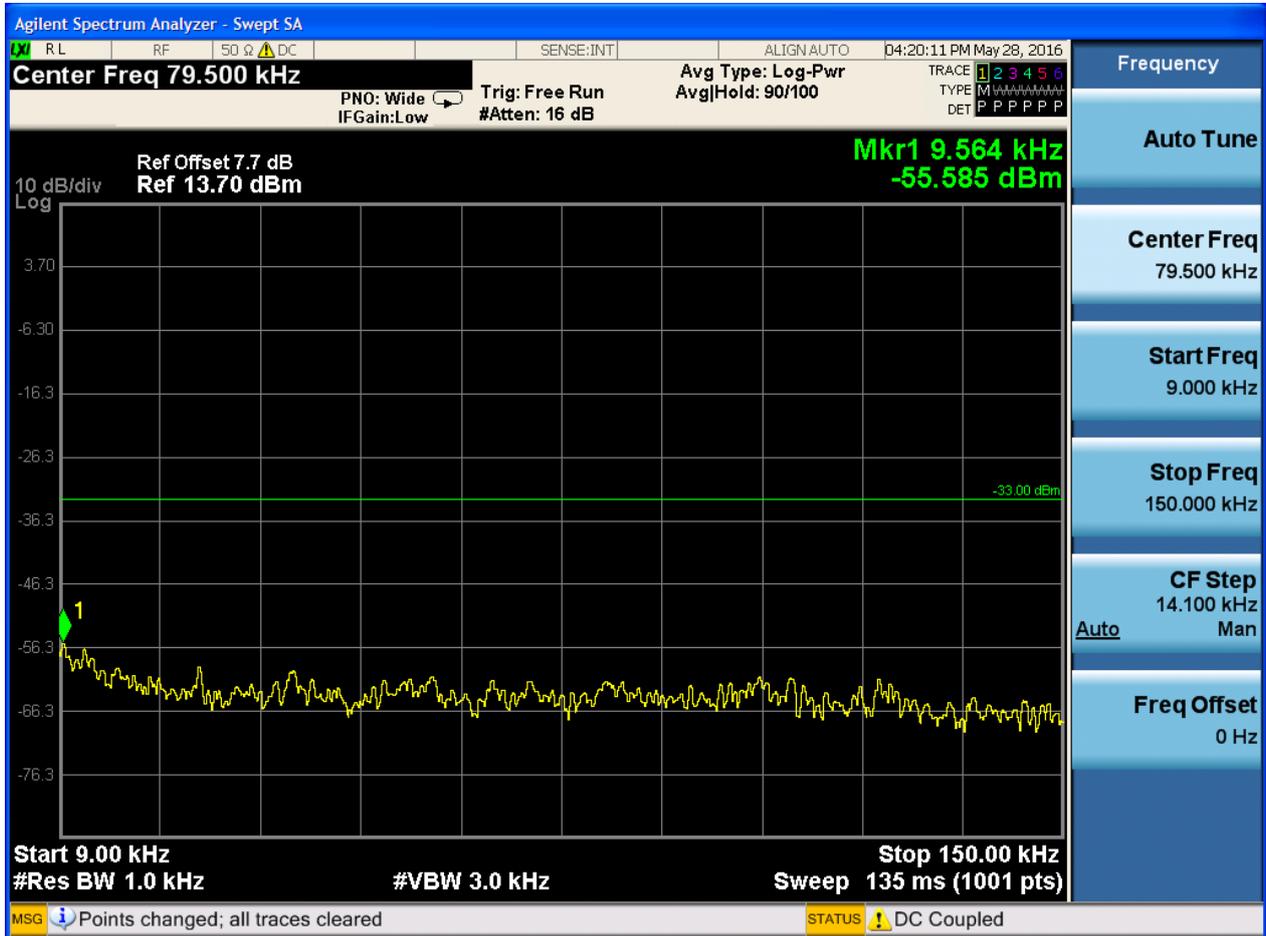


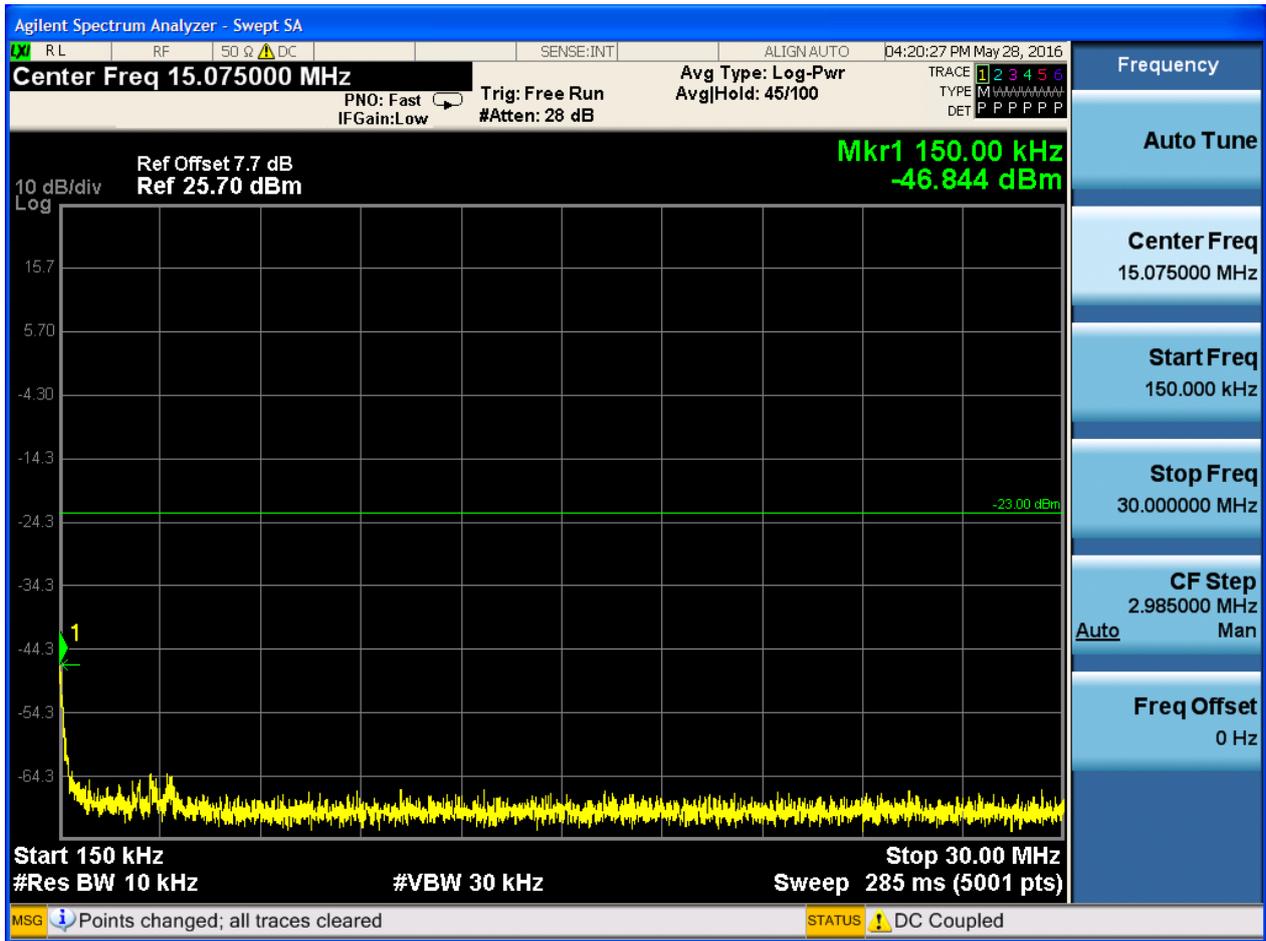


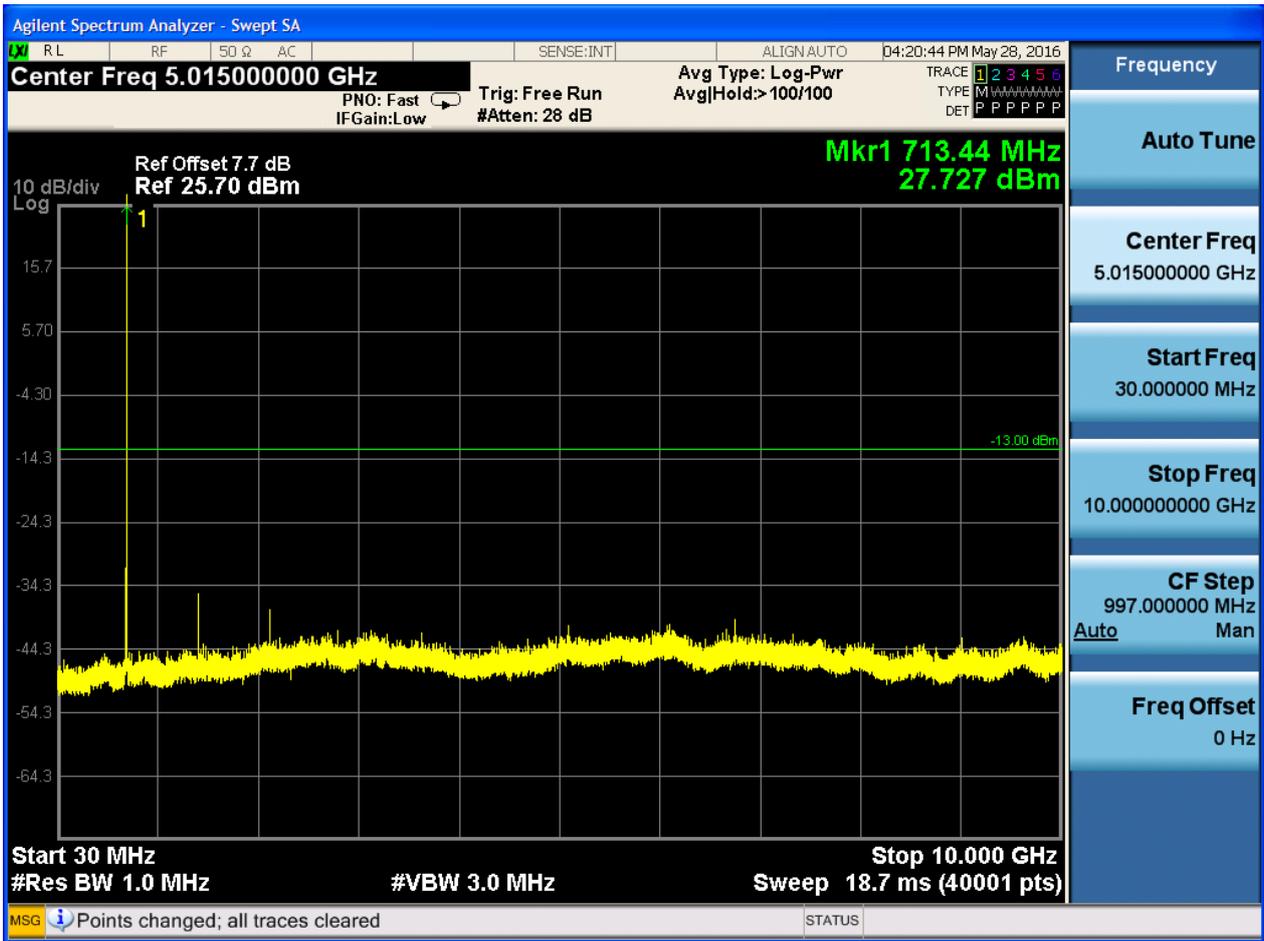


6.1.3.1.2.3 Test Channel = HCH

6.1.3.1.2.3.1 Test RB = RB1#0





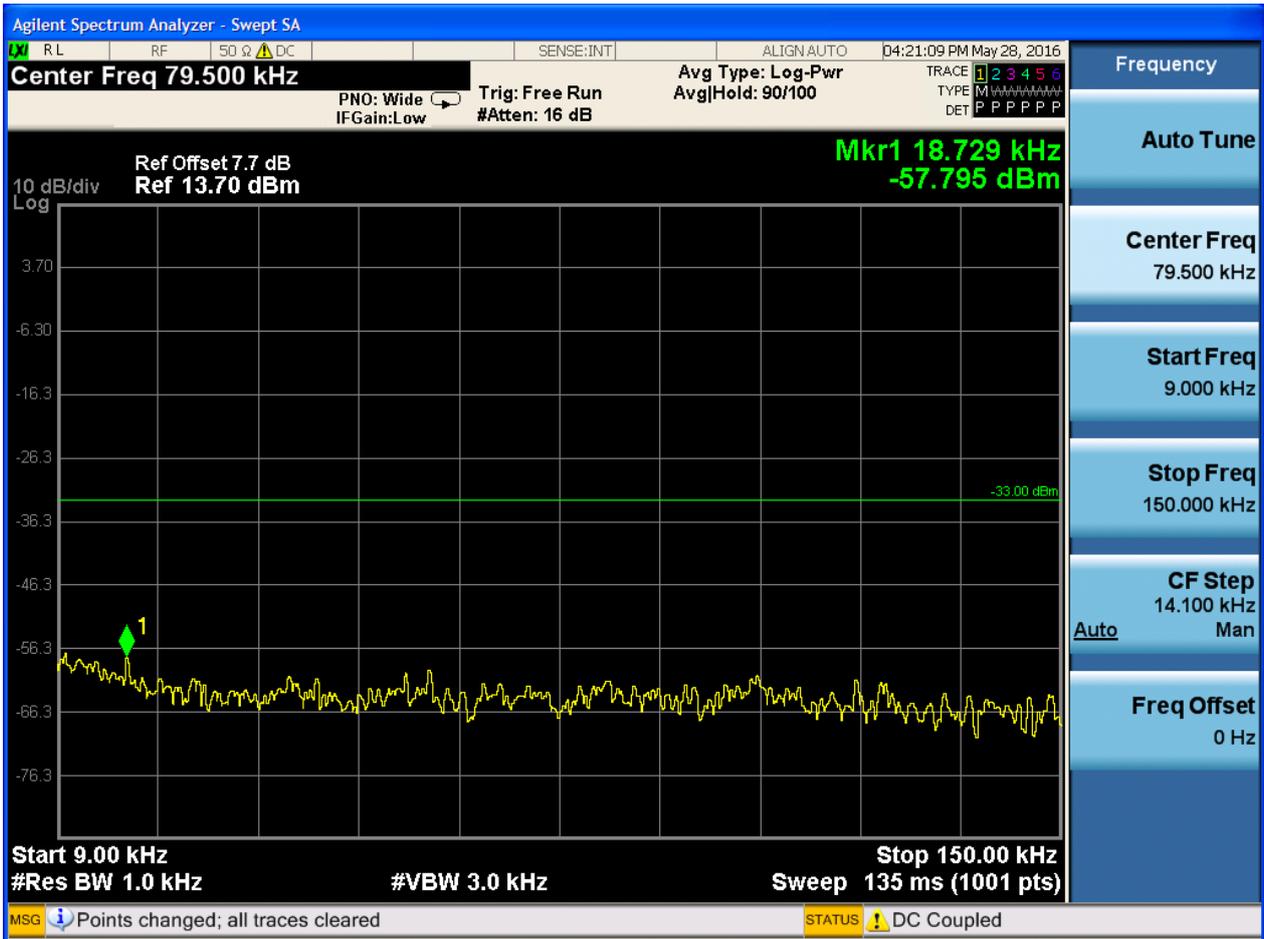




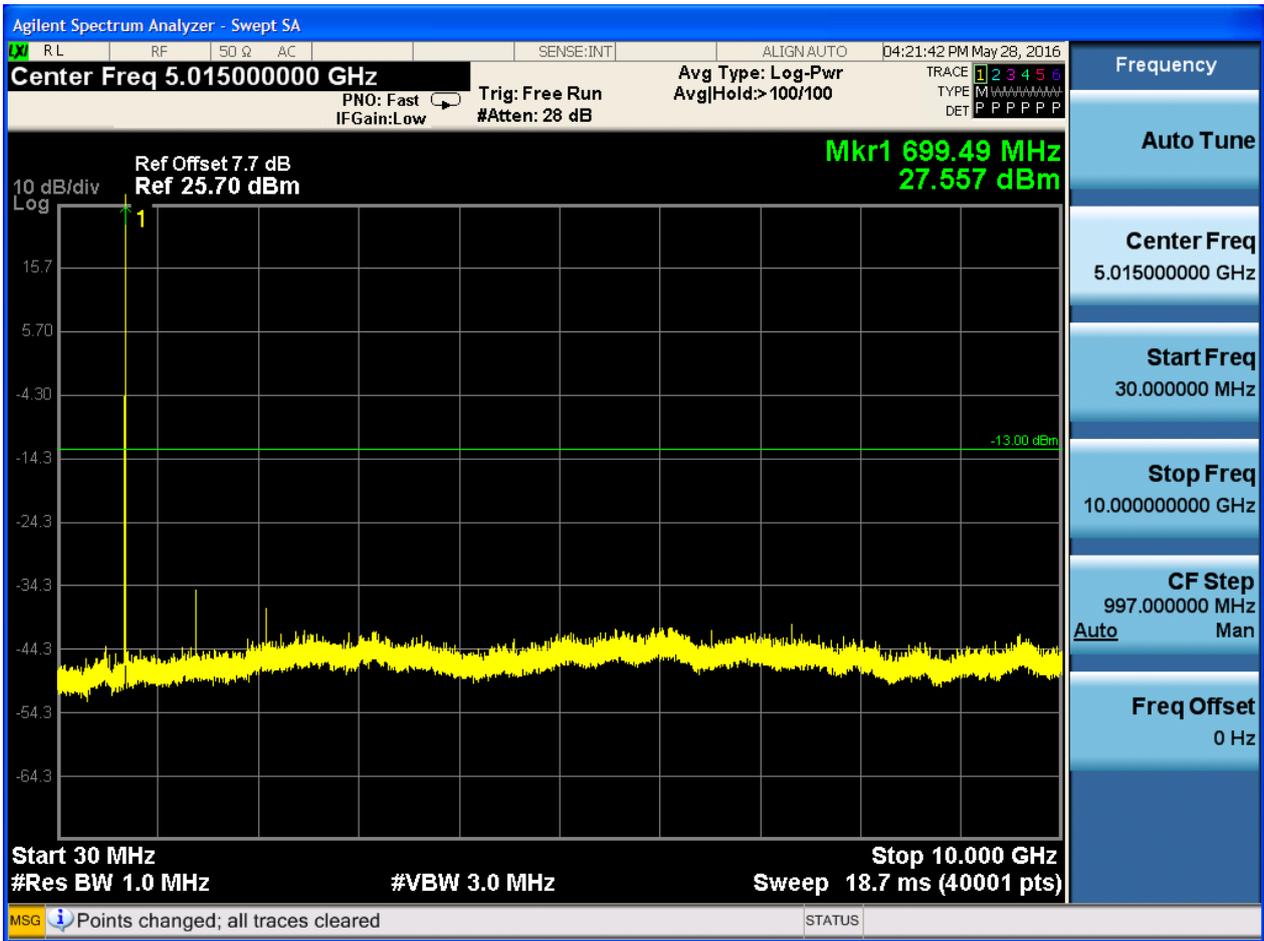
6.1.3.1.3 Test Bandwidth = 5

6.1.3.1.3.1 Test Channel = LCH

6.1.3.1.3.1.1 Test RB = RB1#0



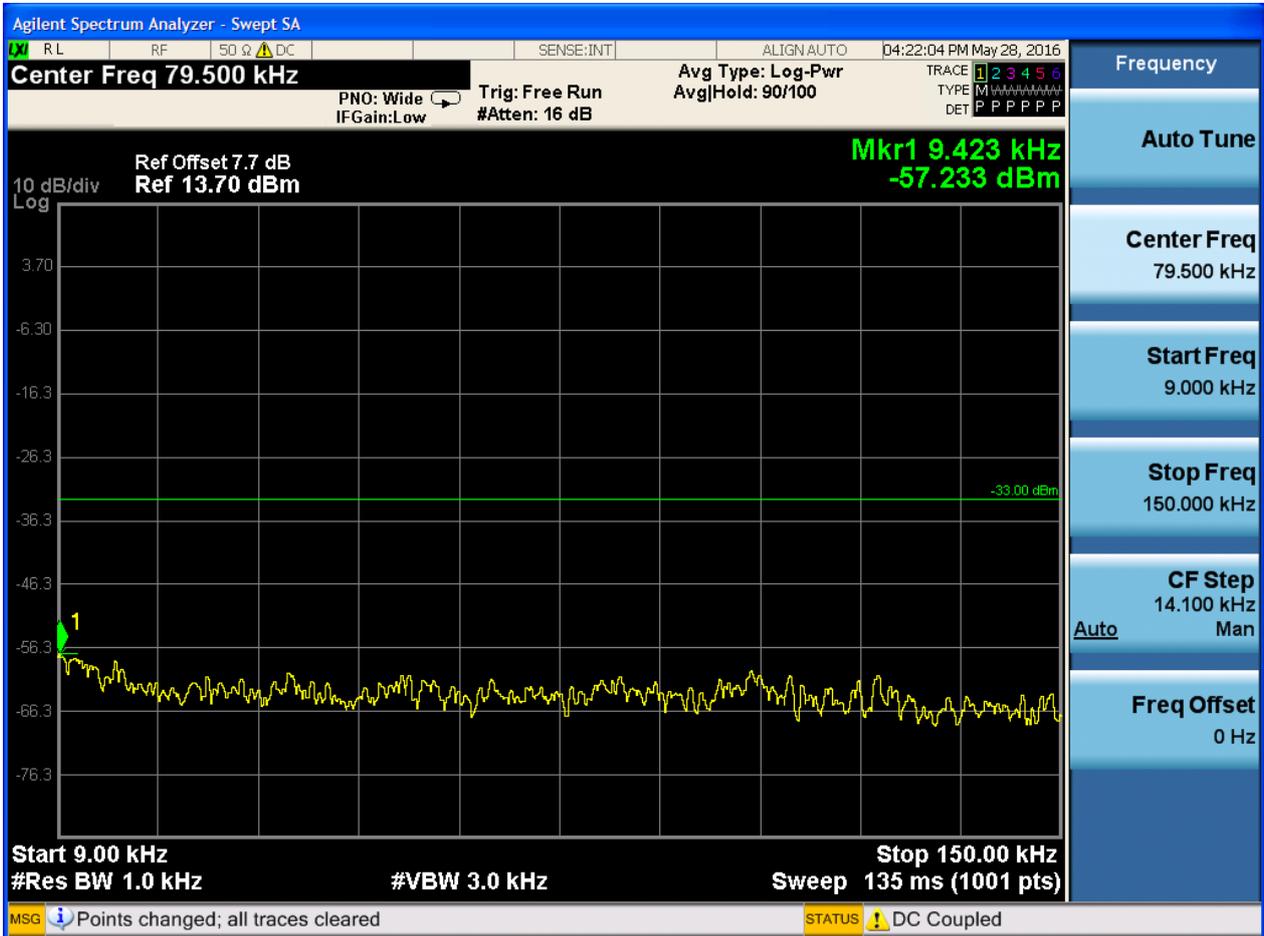


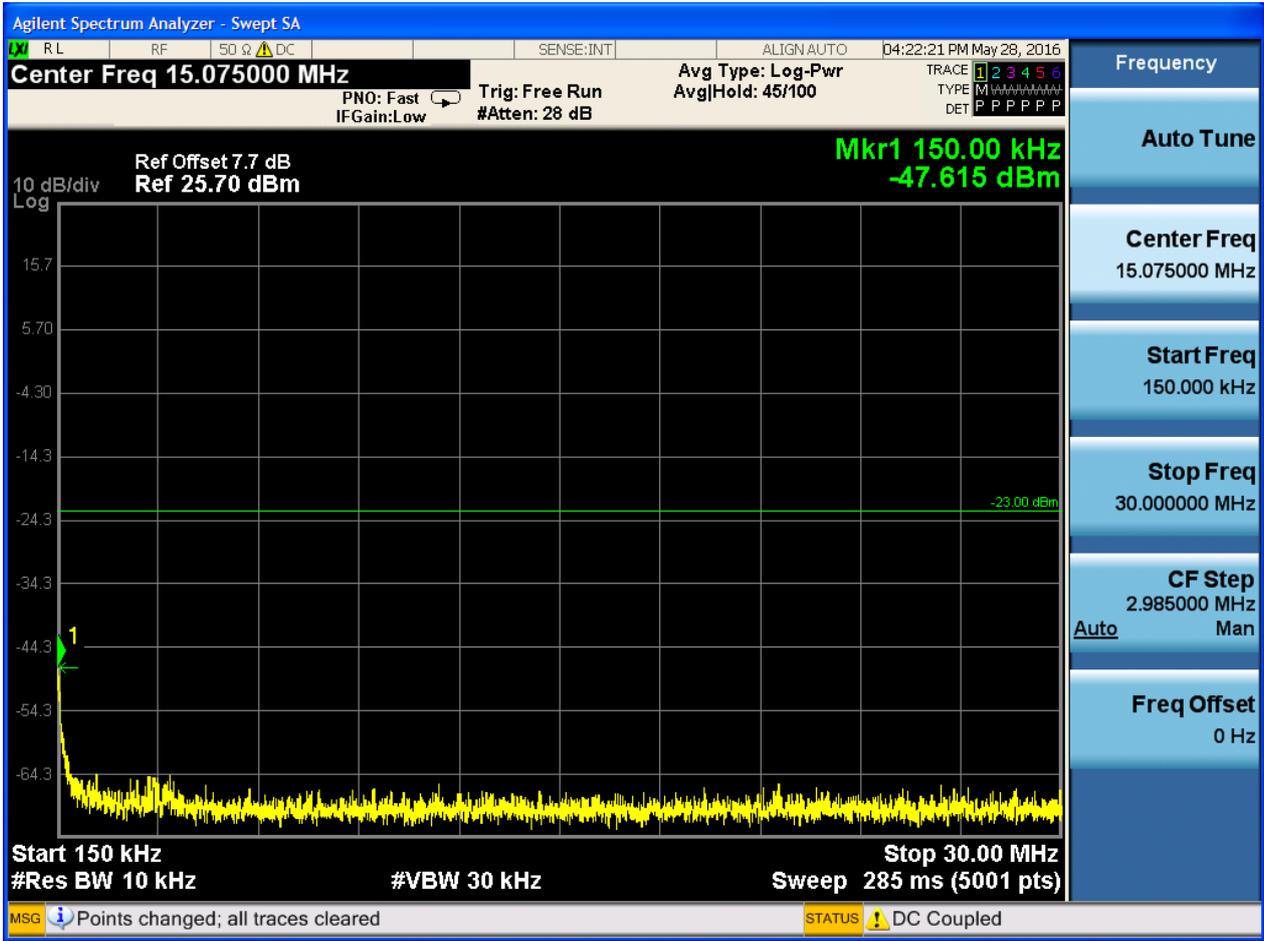


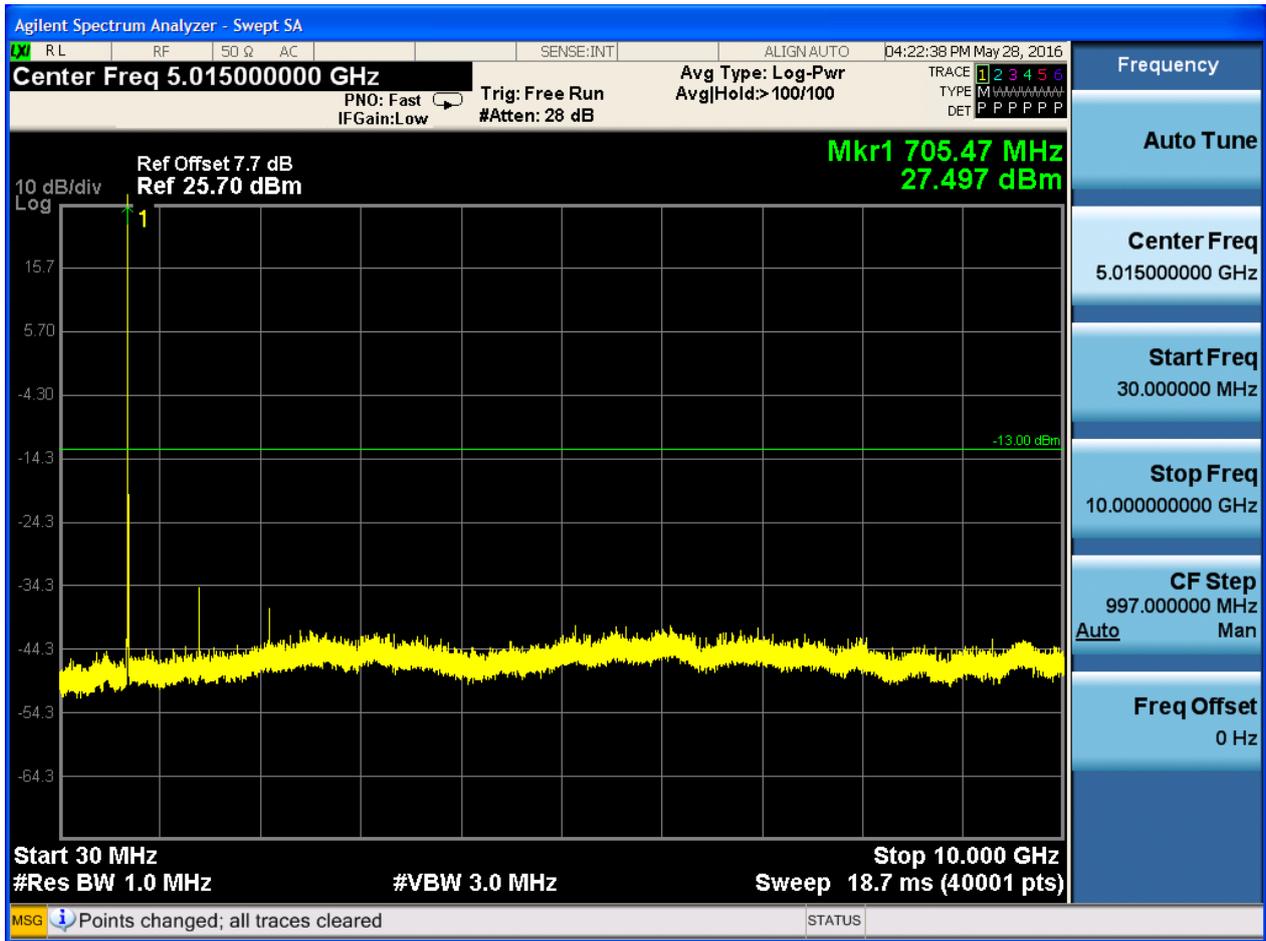


6.1.3.1.3.2 Test Channel = MCH

6.1.3.1.3.2.1 Test RB = RB1#0



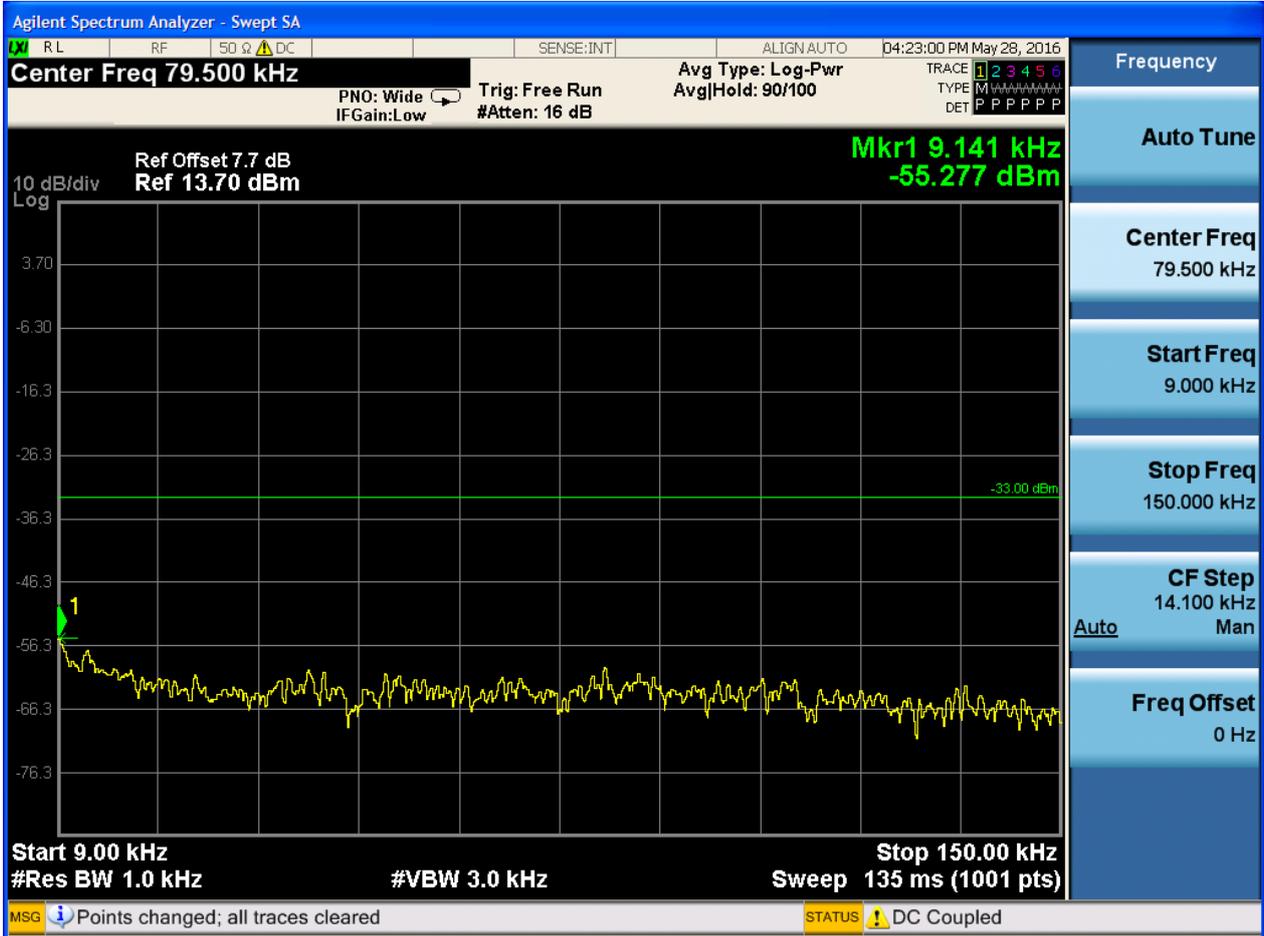


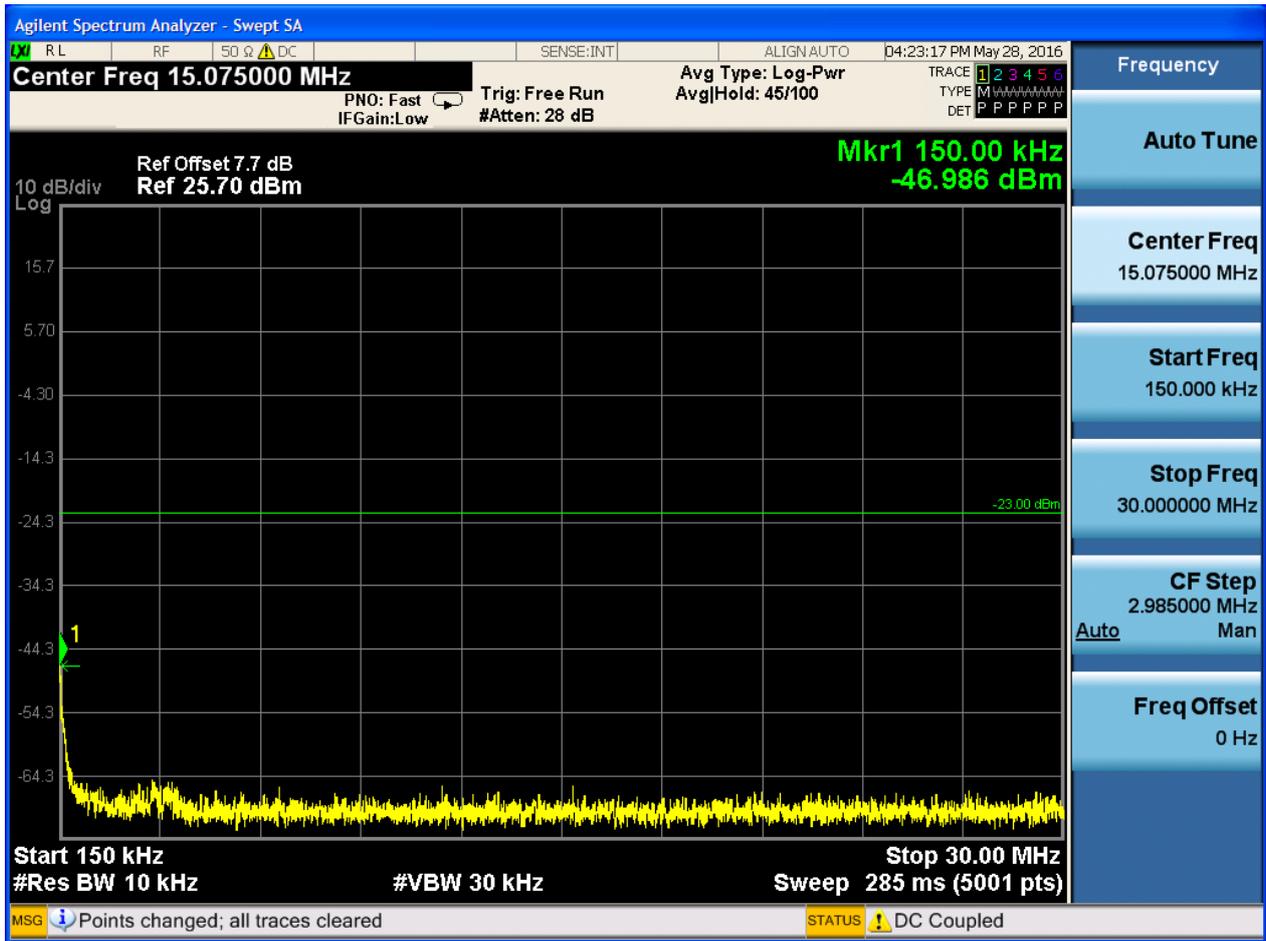


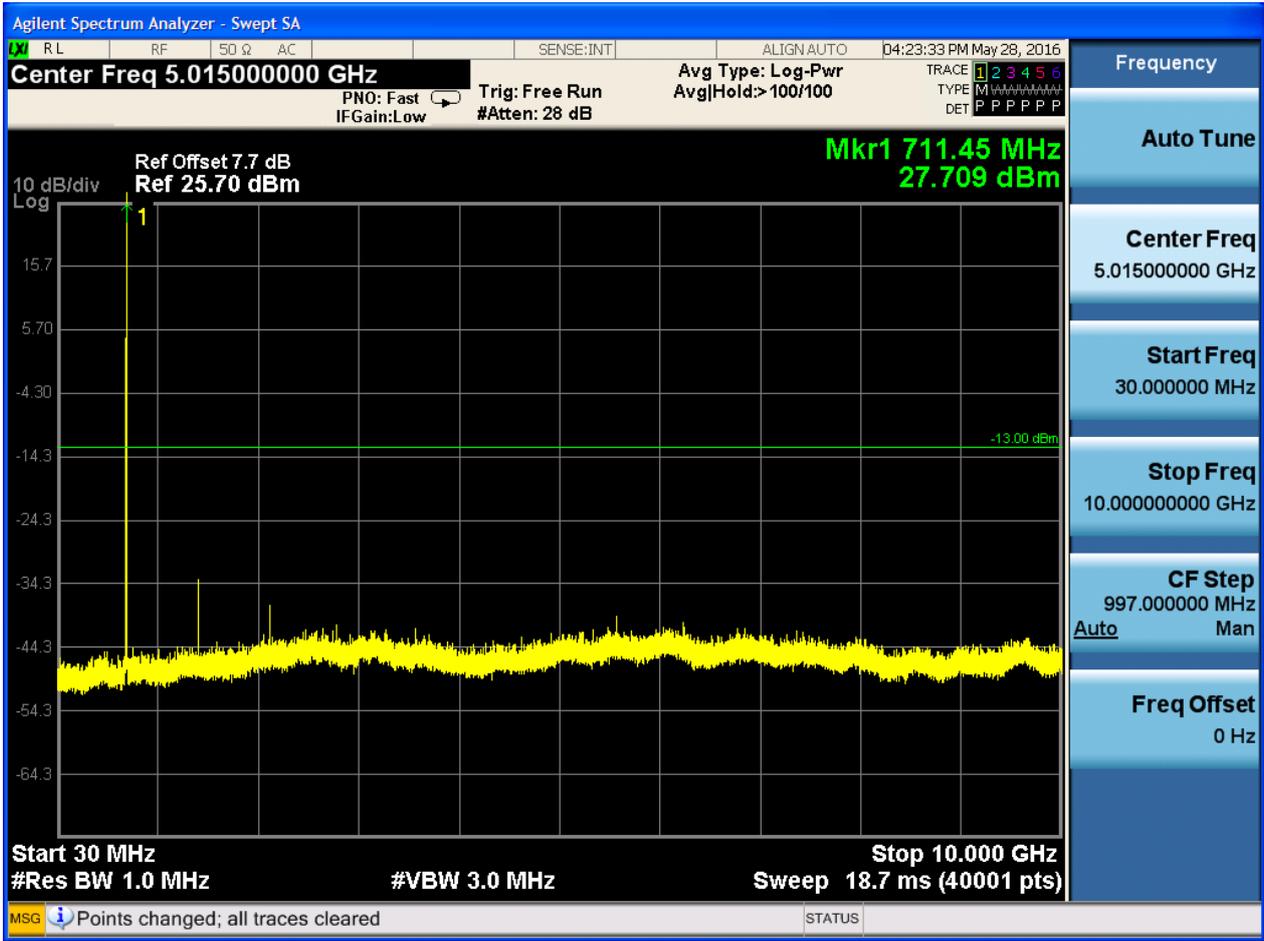


6.1.3.1.3.3 Test Channel = HCH

6.1.3.1.3.3.1 Test RB = RB1#0





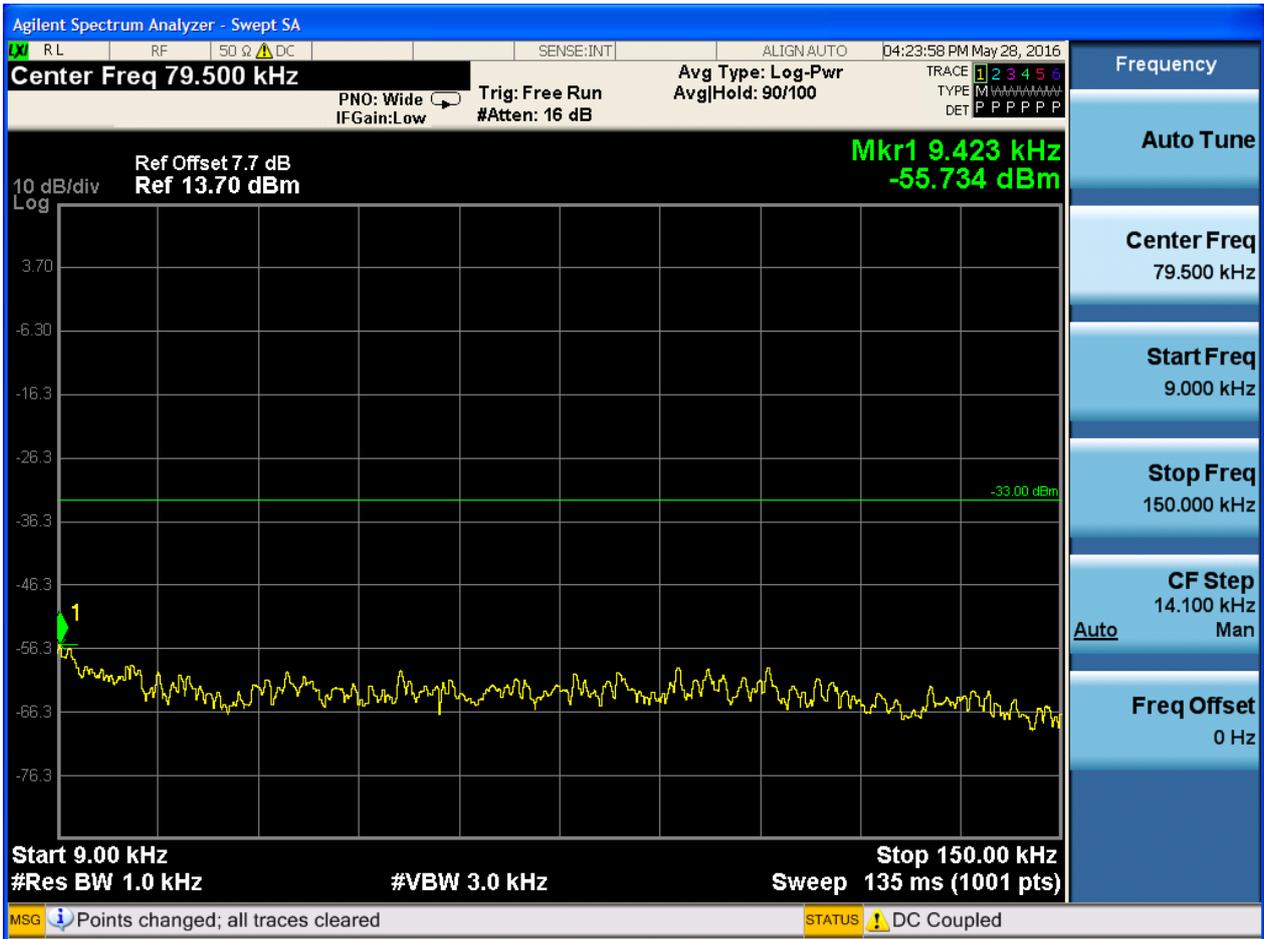


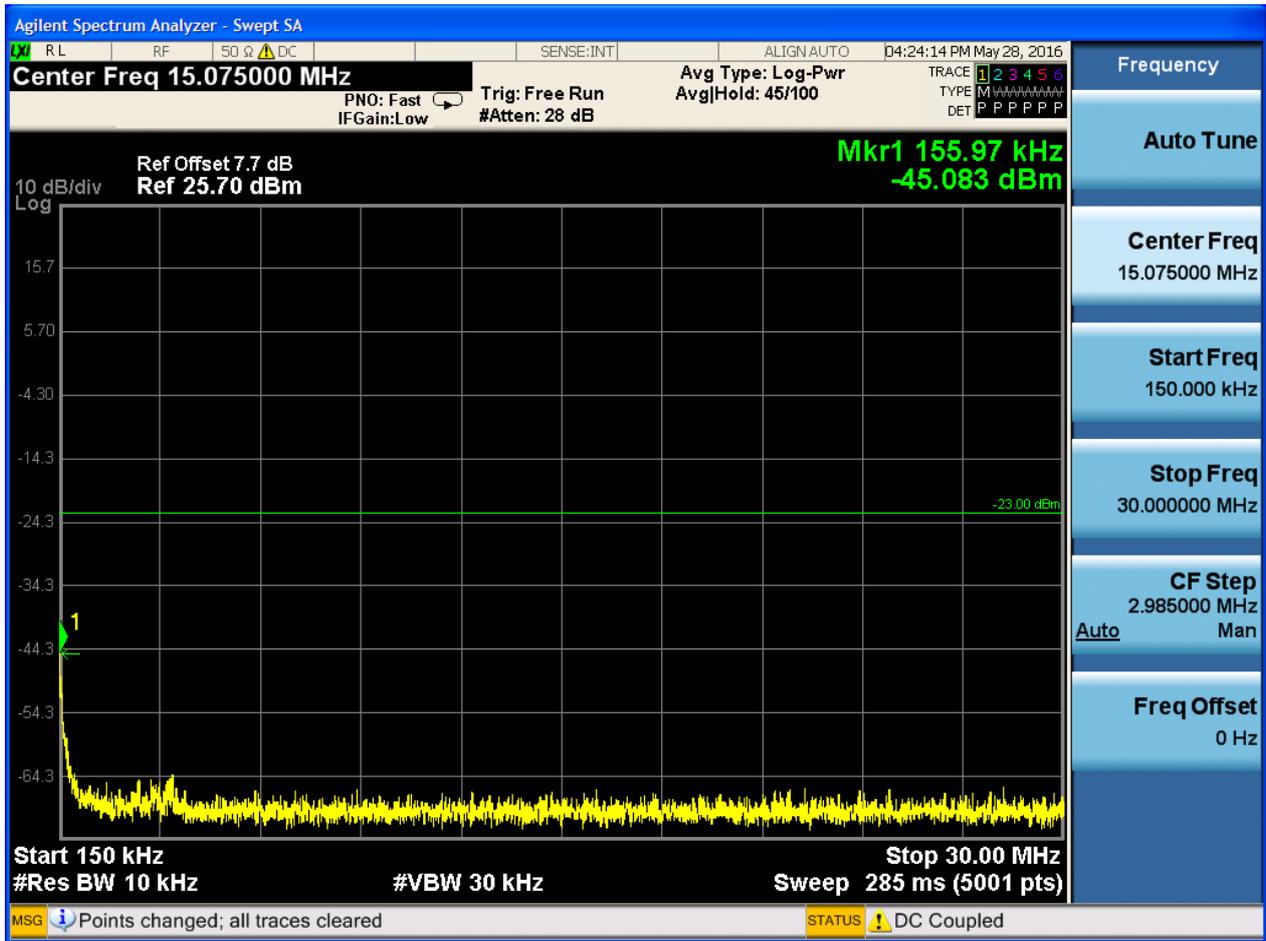


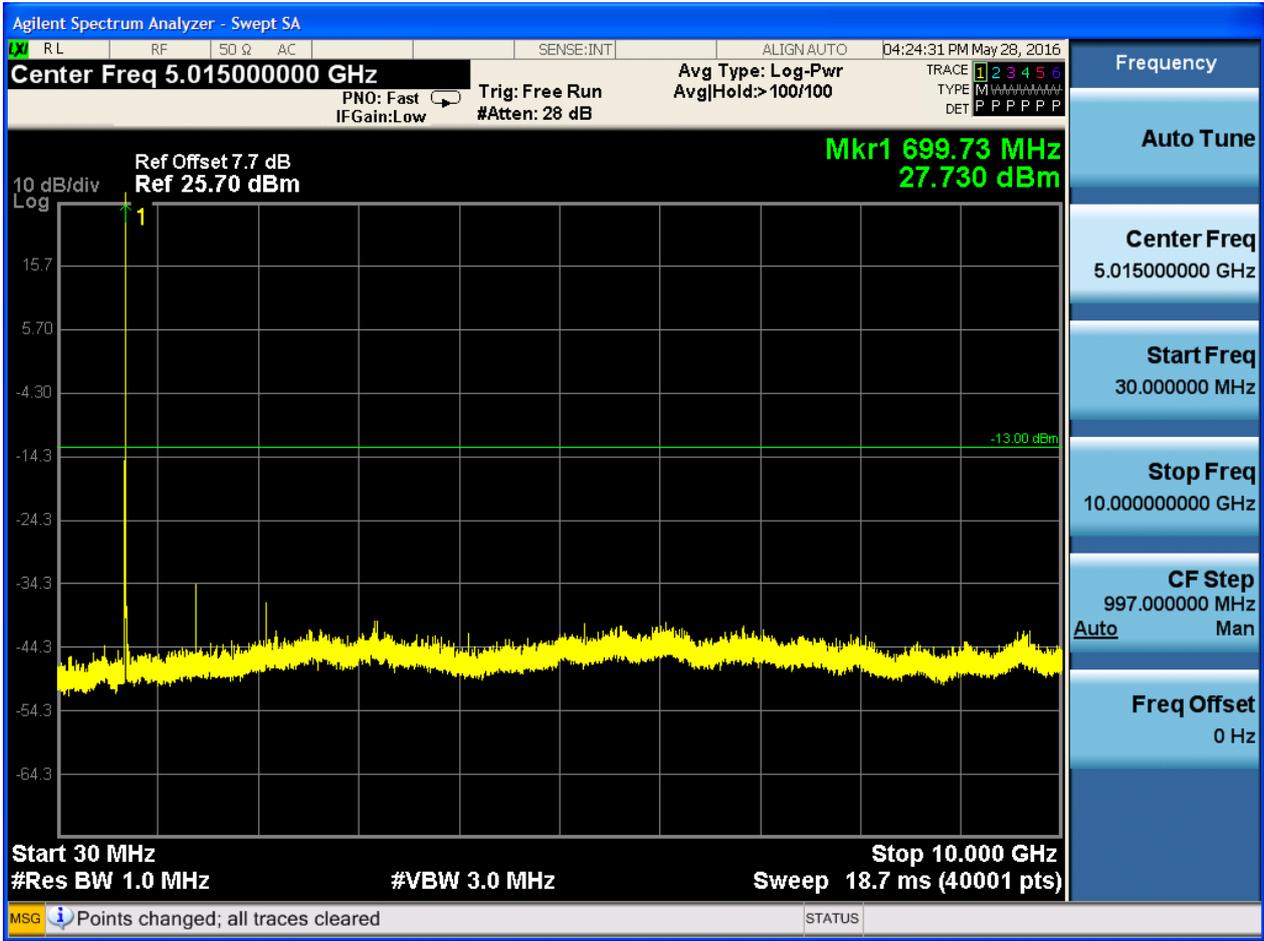
6.1.3.1.4 Test Bandwidth = 10

6.1.3.1.4.1 Test Channel = LCH

6.1.3.1.4.1.1 Test RB = RB1#0



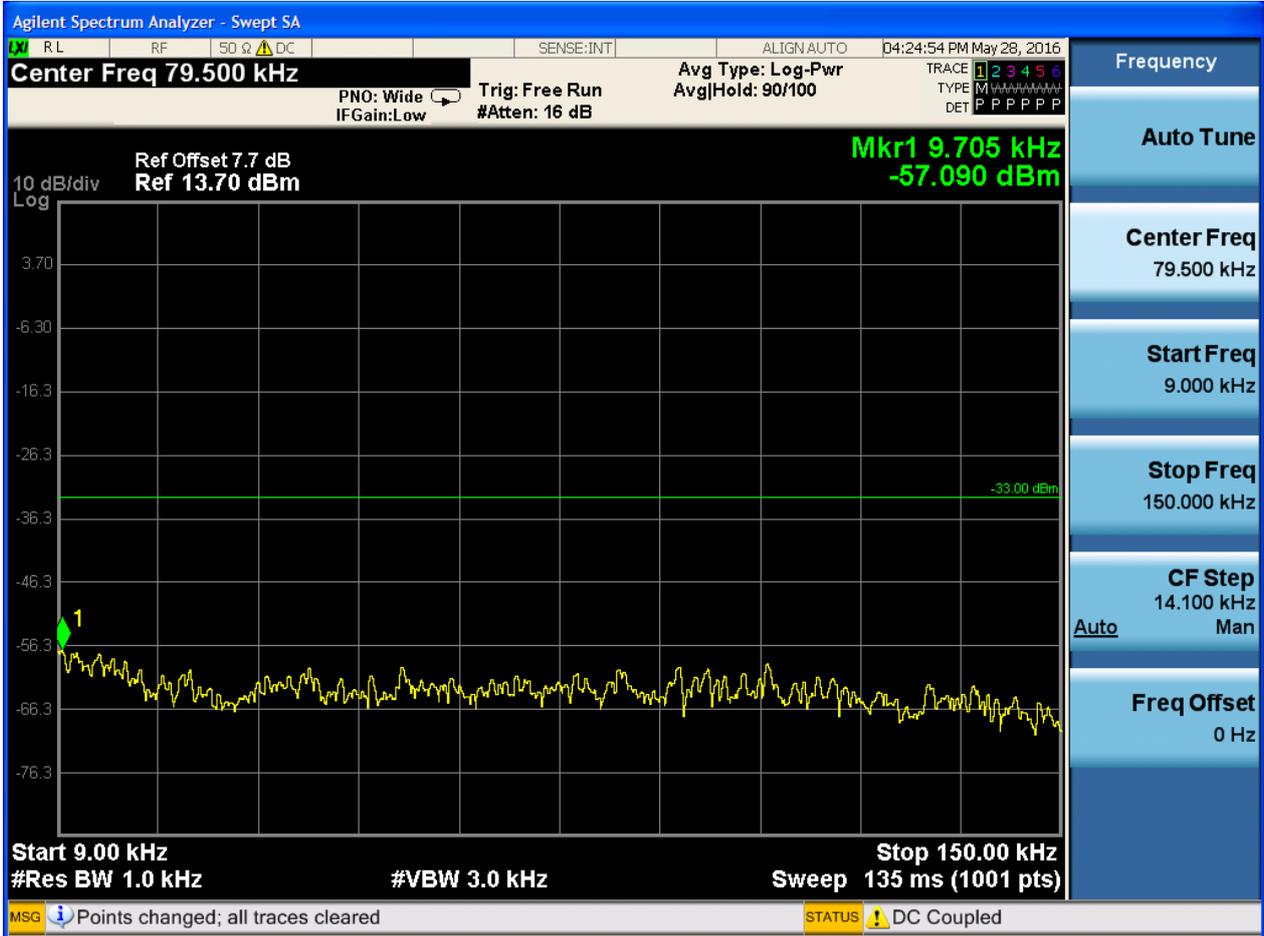




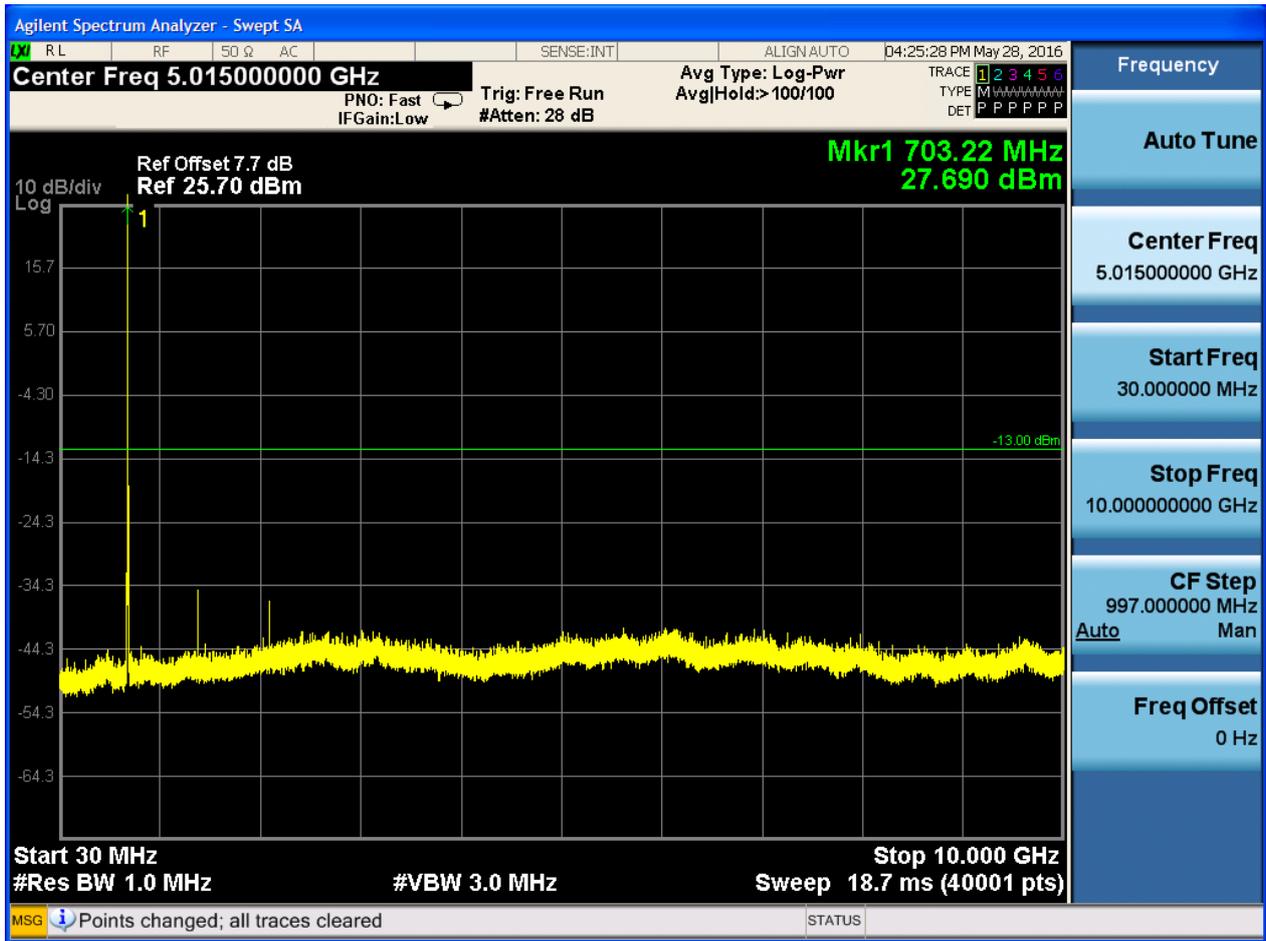


6.1.3.1.4.2 Test Channel = MCH

6.1.3.1.4.2.1 Test RB = RB1#0



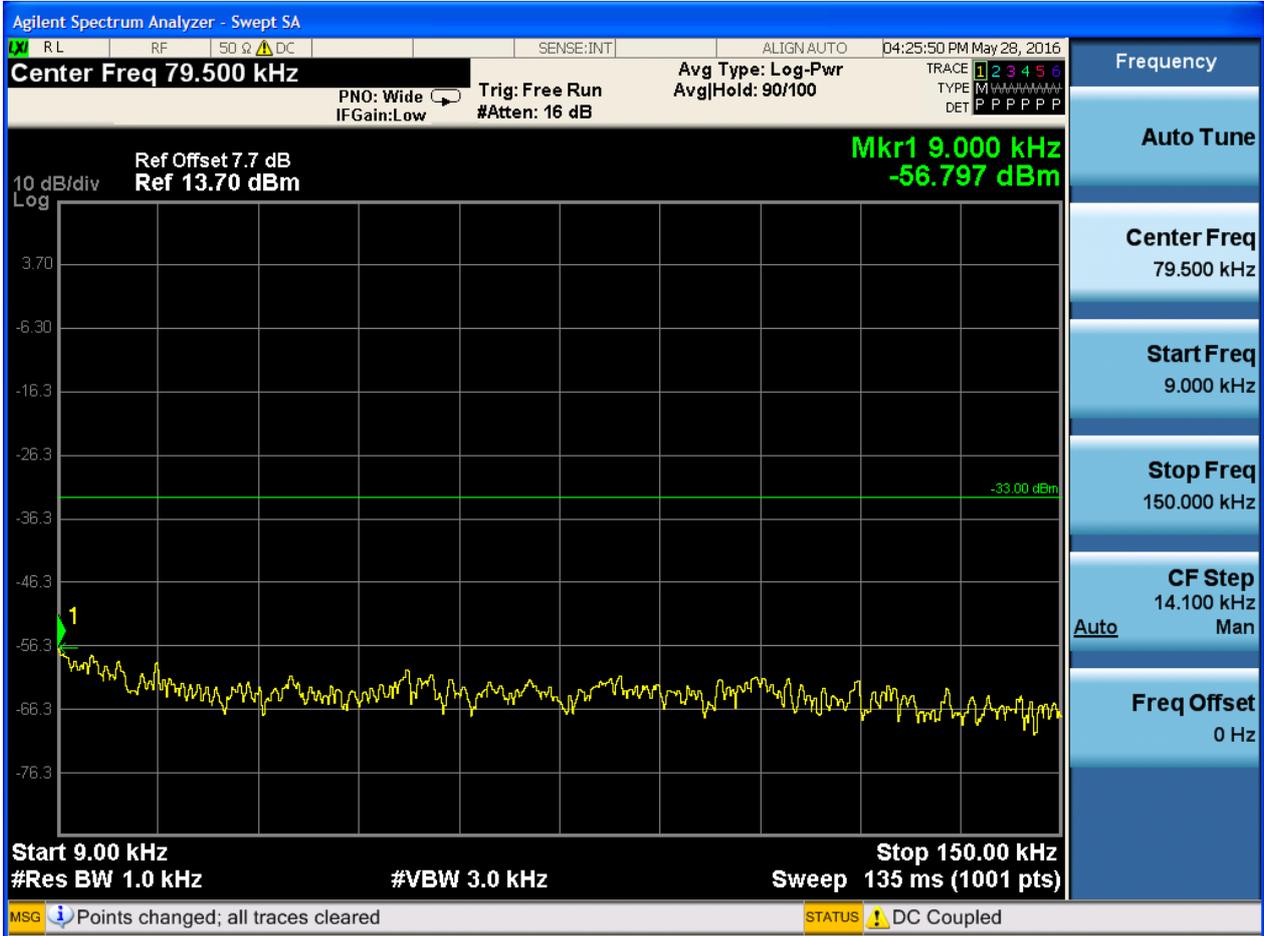




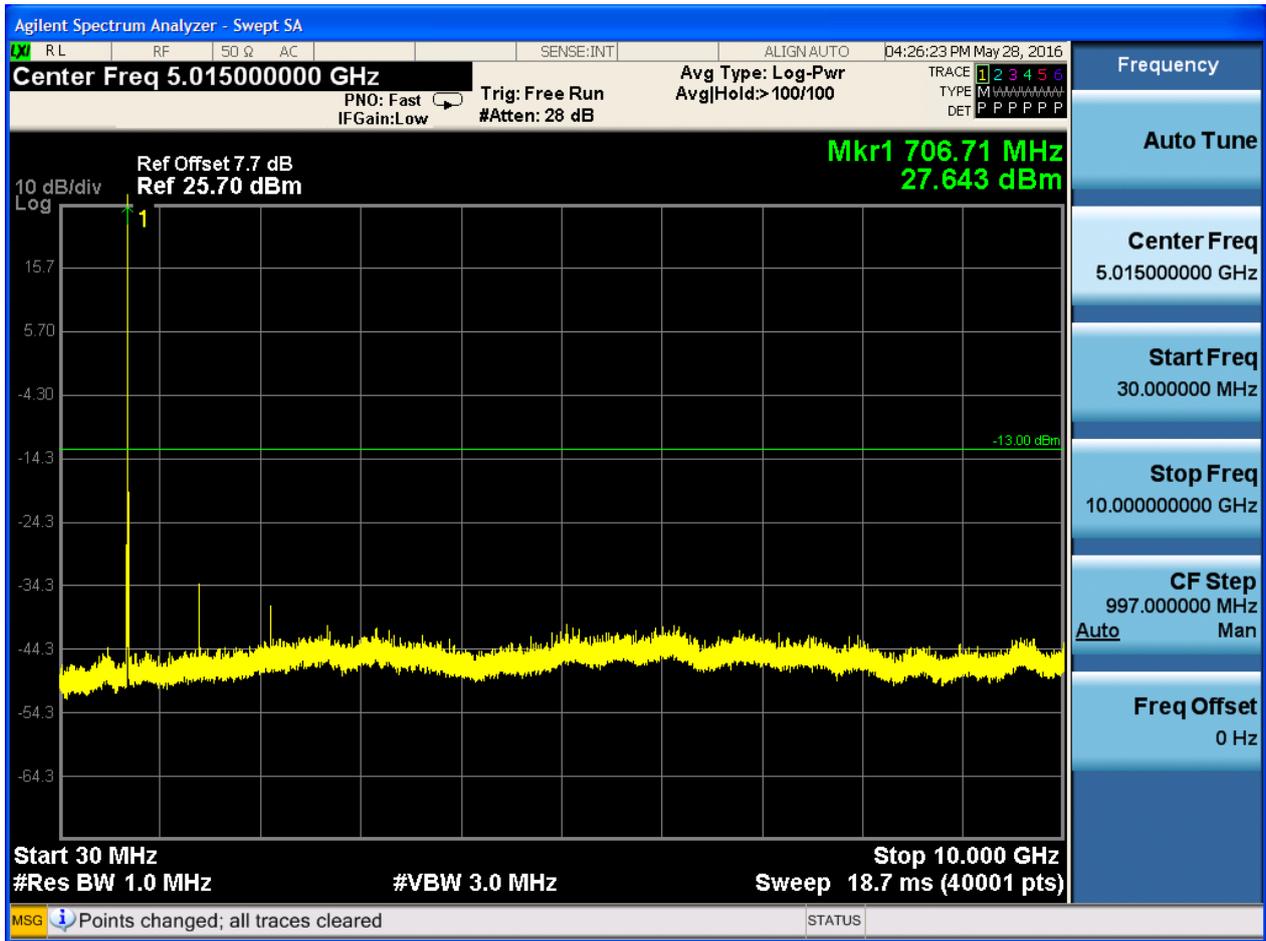


6.1.3.1.4.3 Test Channel = HCH

6.1.3.1.4.3.1 Test RB = RB1#0







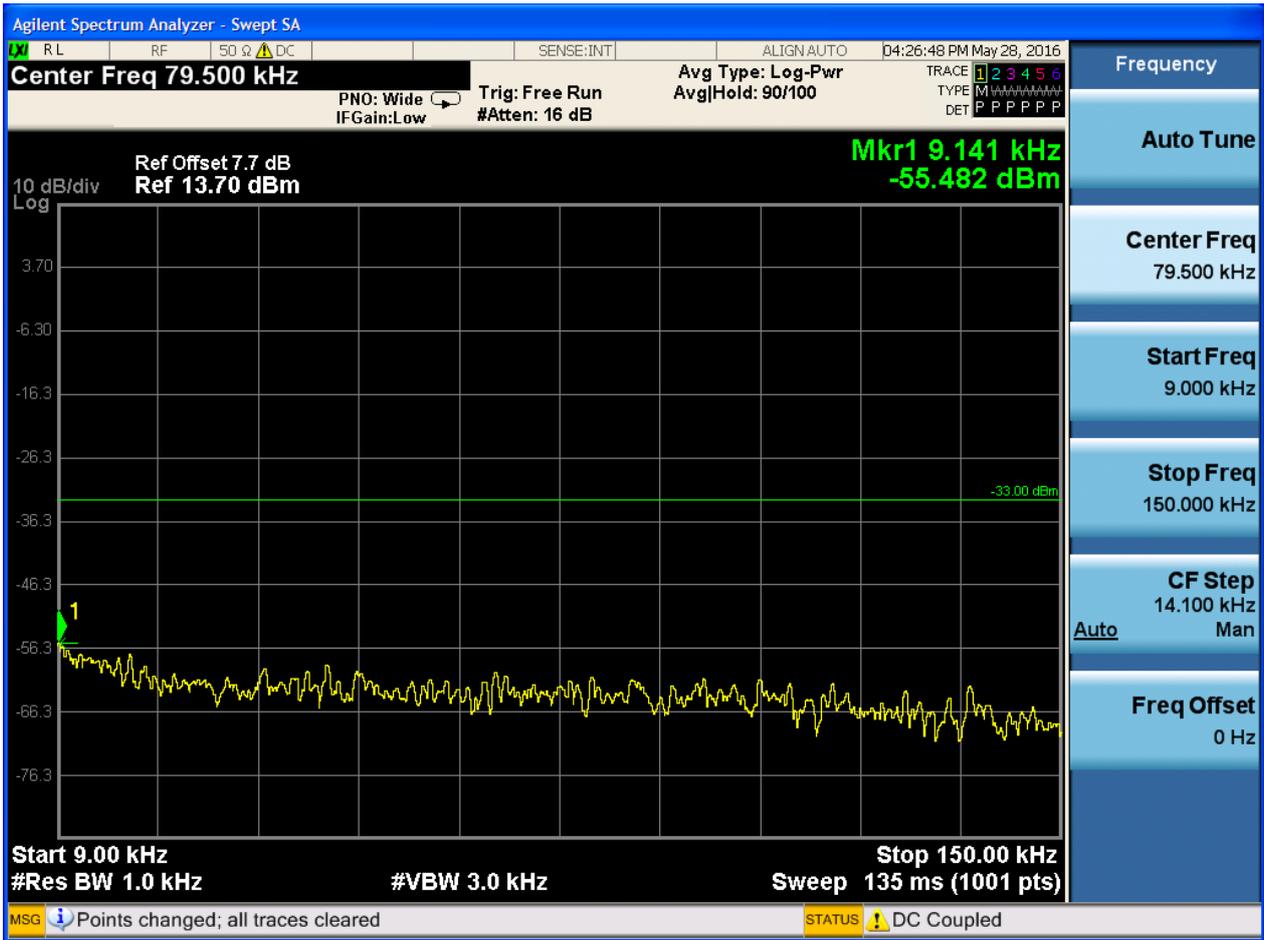


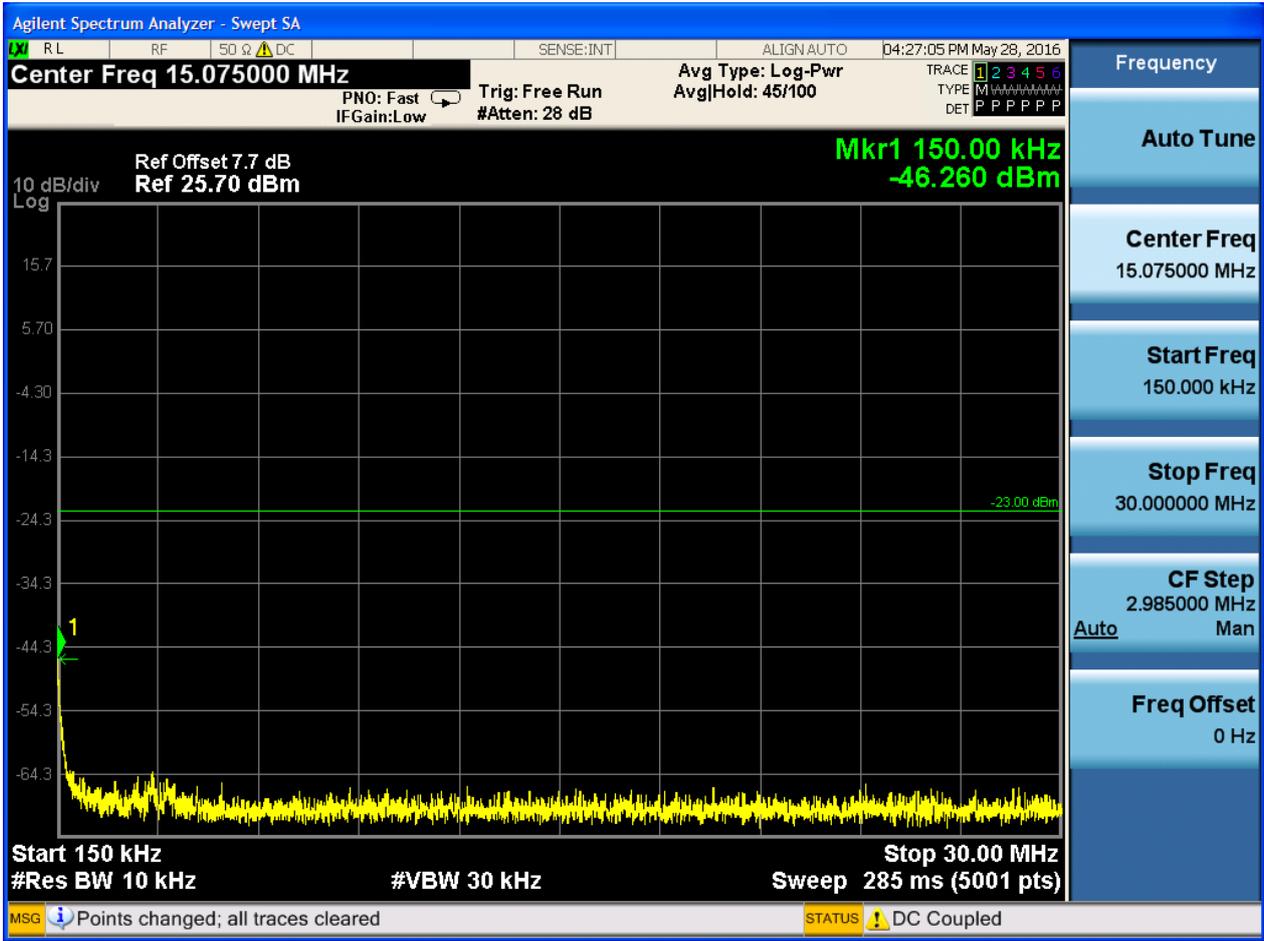
6.1.3.2 Test Mode = LTE/TM2

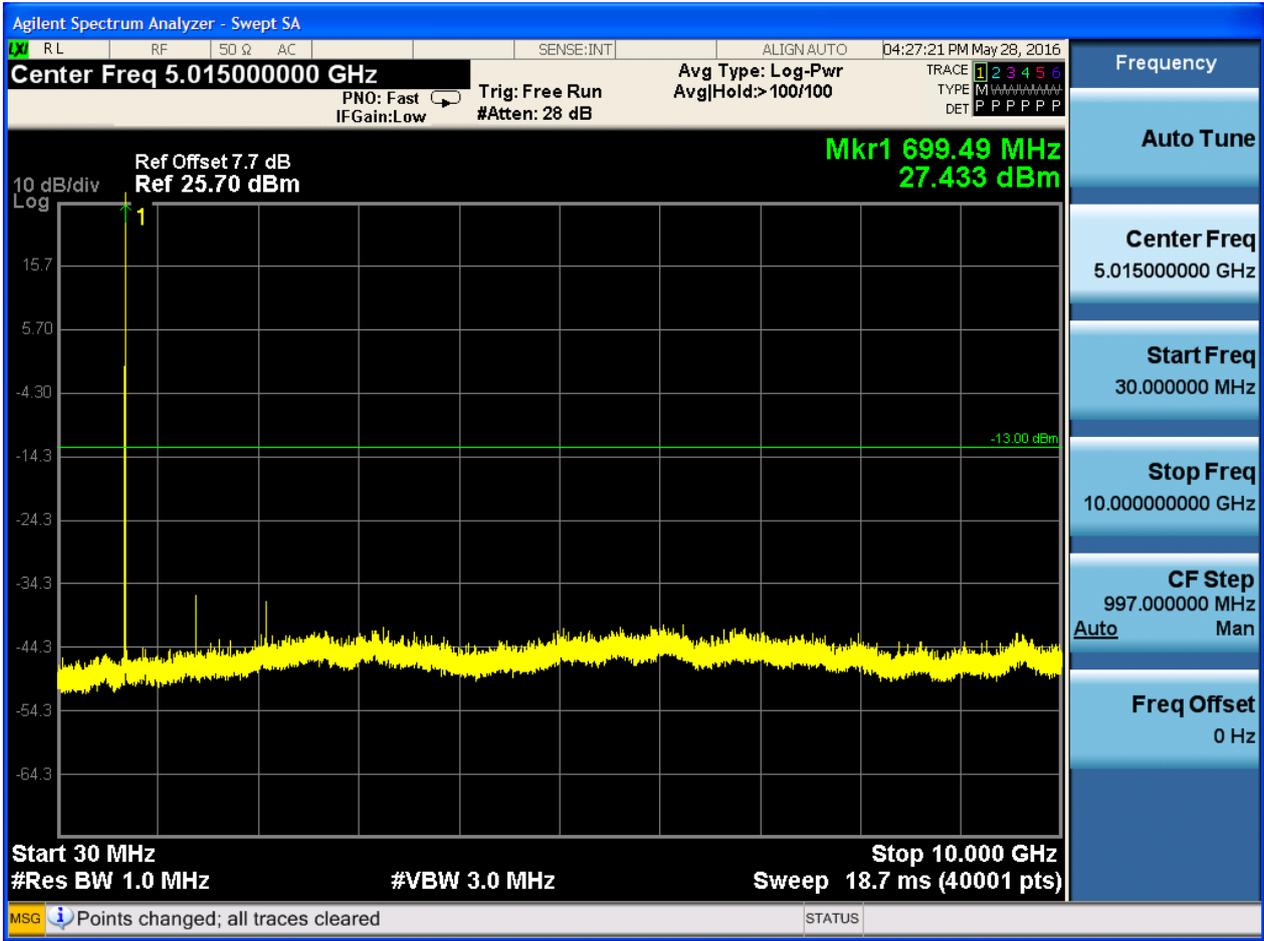
6.1.3.2.1 Test Bandwidth = 1.4

6.1.3.2.1.1 Test Channel = LCH

6.1.3.2.1.1.1 Test RB = RB1#0

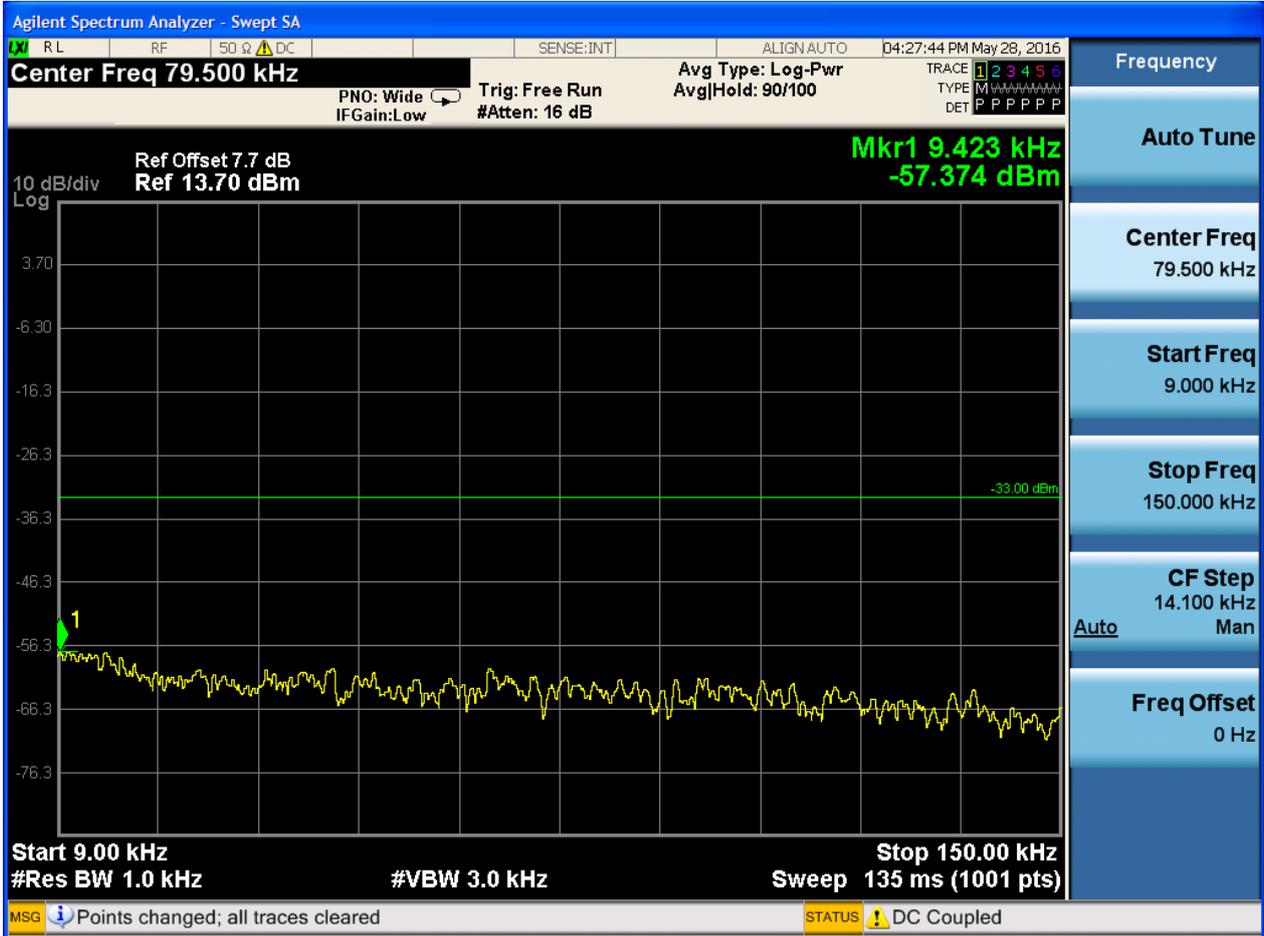




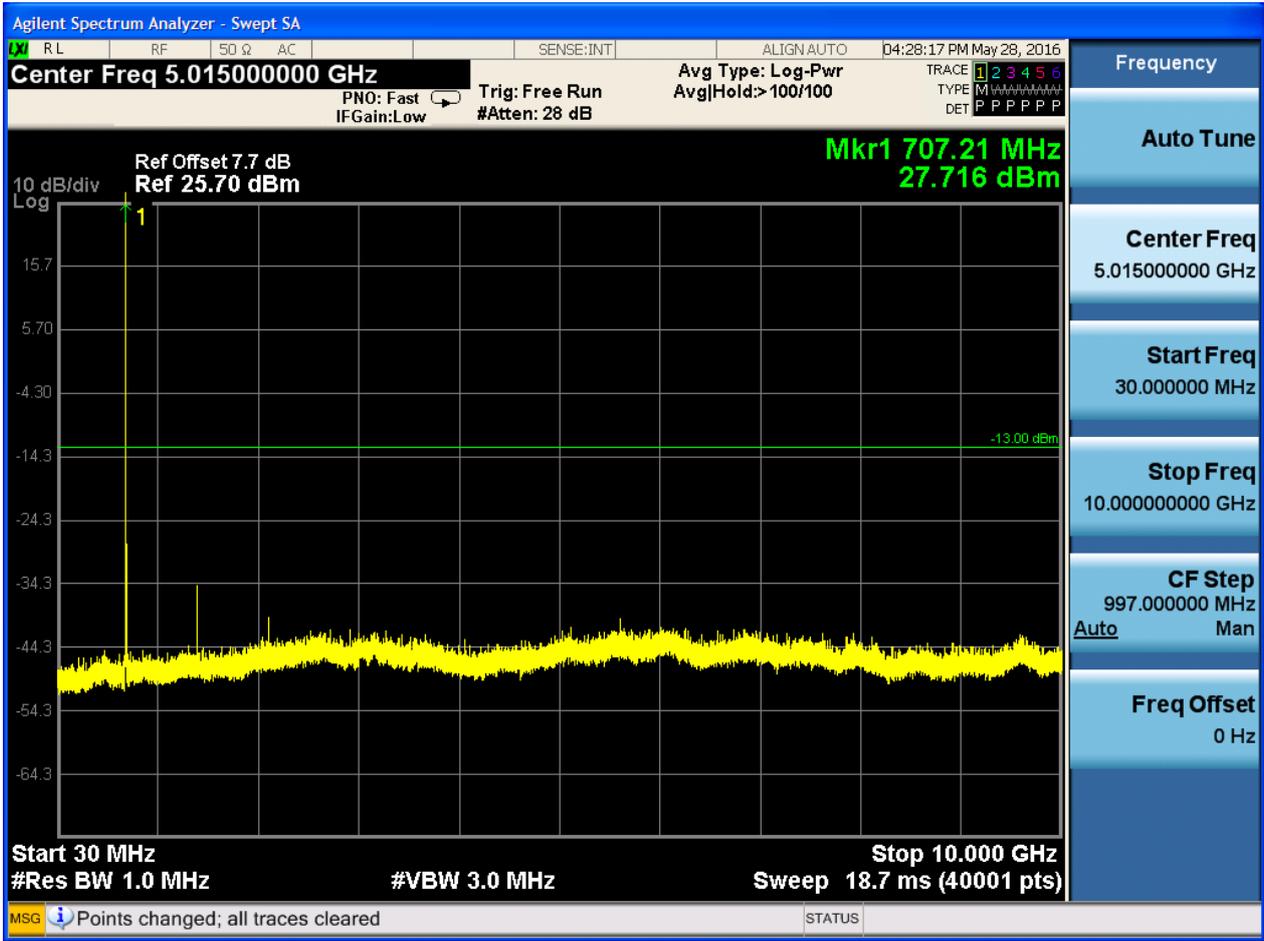


6.1.3.2.1.2 Test Channel = MCH

6.1.3.2.1.2.1 Test RB = RB1#0

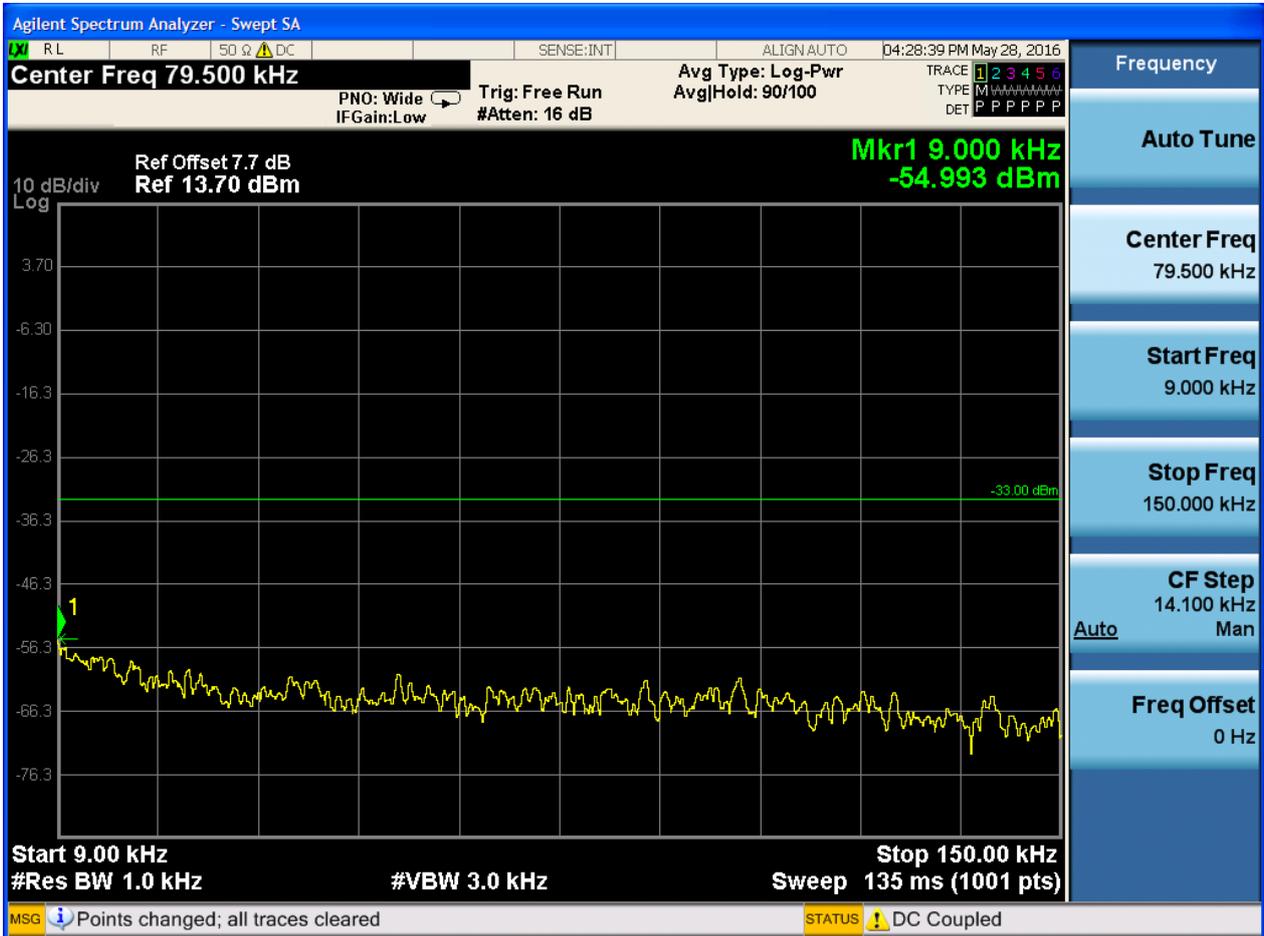




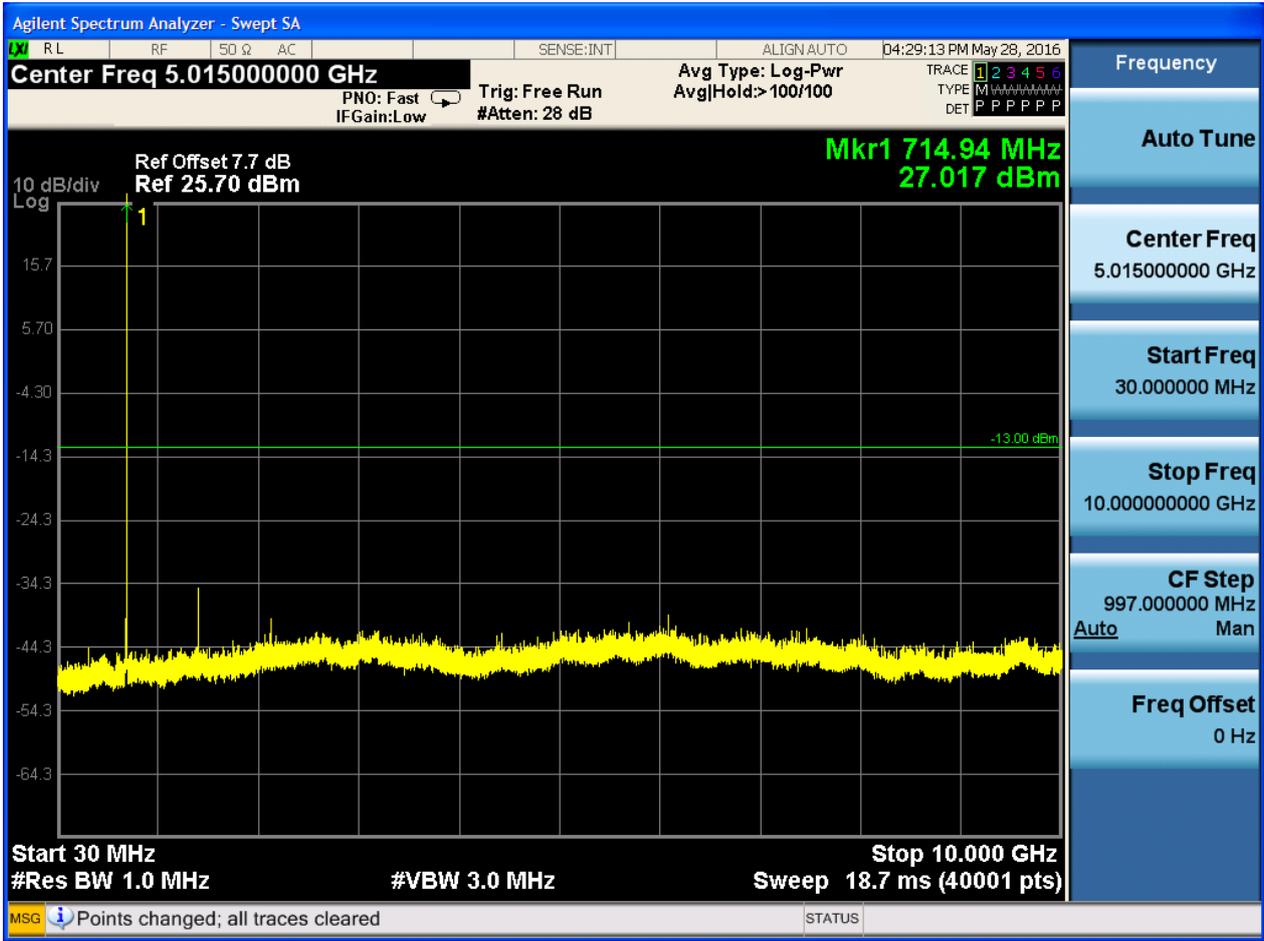


6.1.3.2.1.3 Test Channel = HCH

6.1.3.2.1.3.1 Test RB = RB1#0





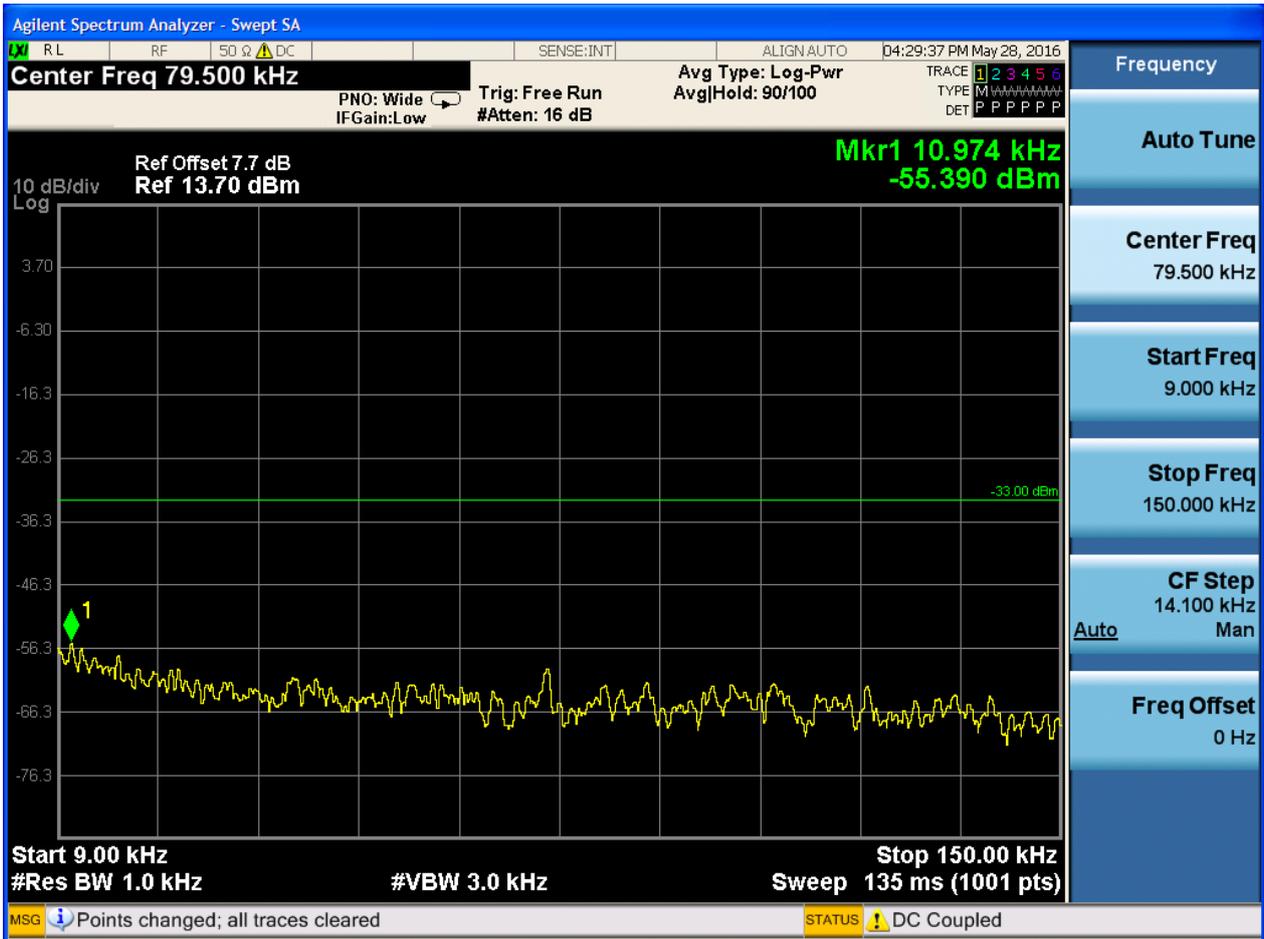




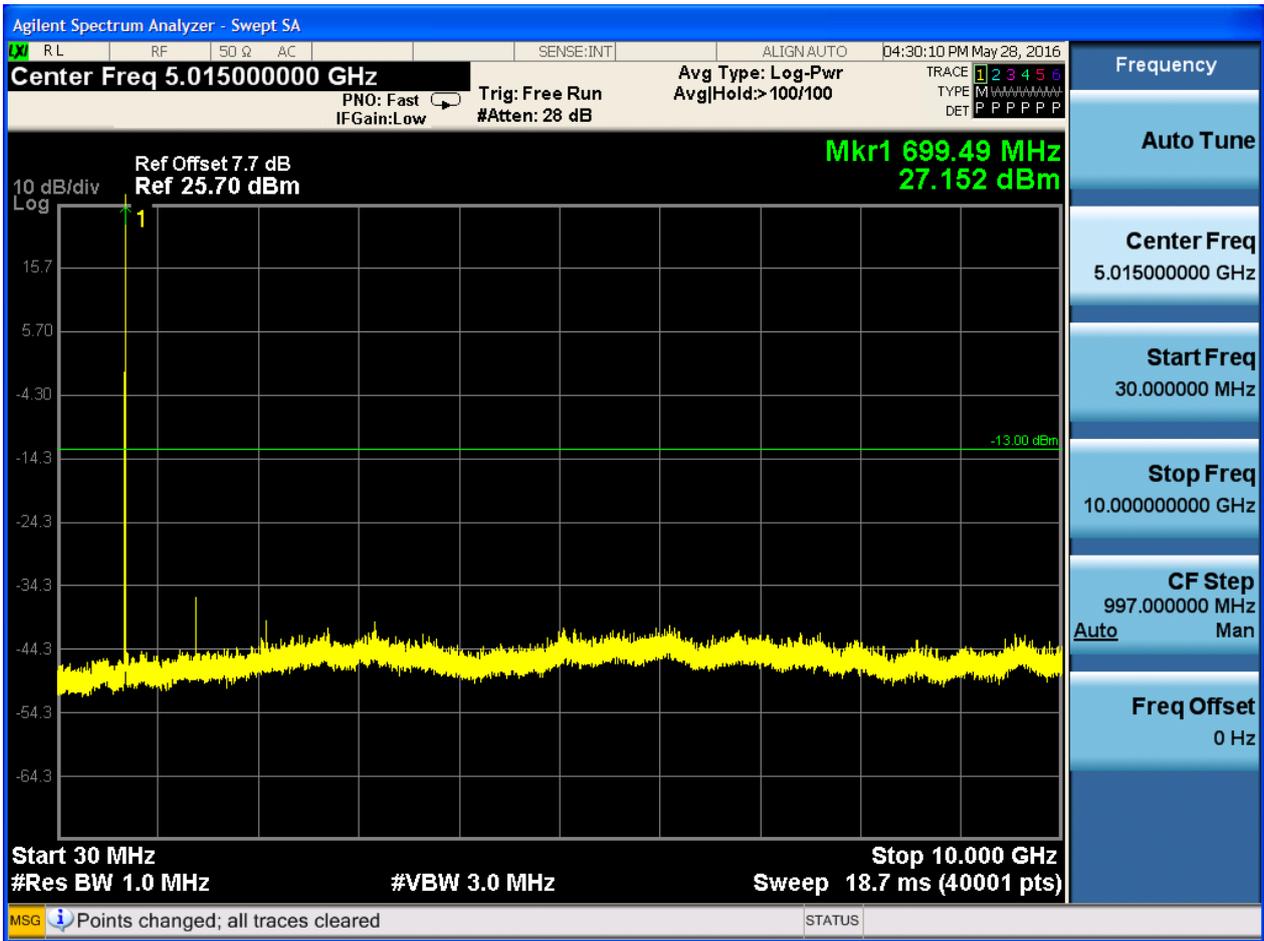
6.1.3.2.2 Test Bandwidth = 3

6.1.3.2.2.1 Test Channel = LCH

6.1.3.2.2.1.1 Test RB = RB1#0

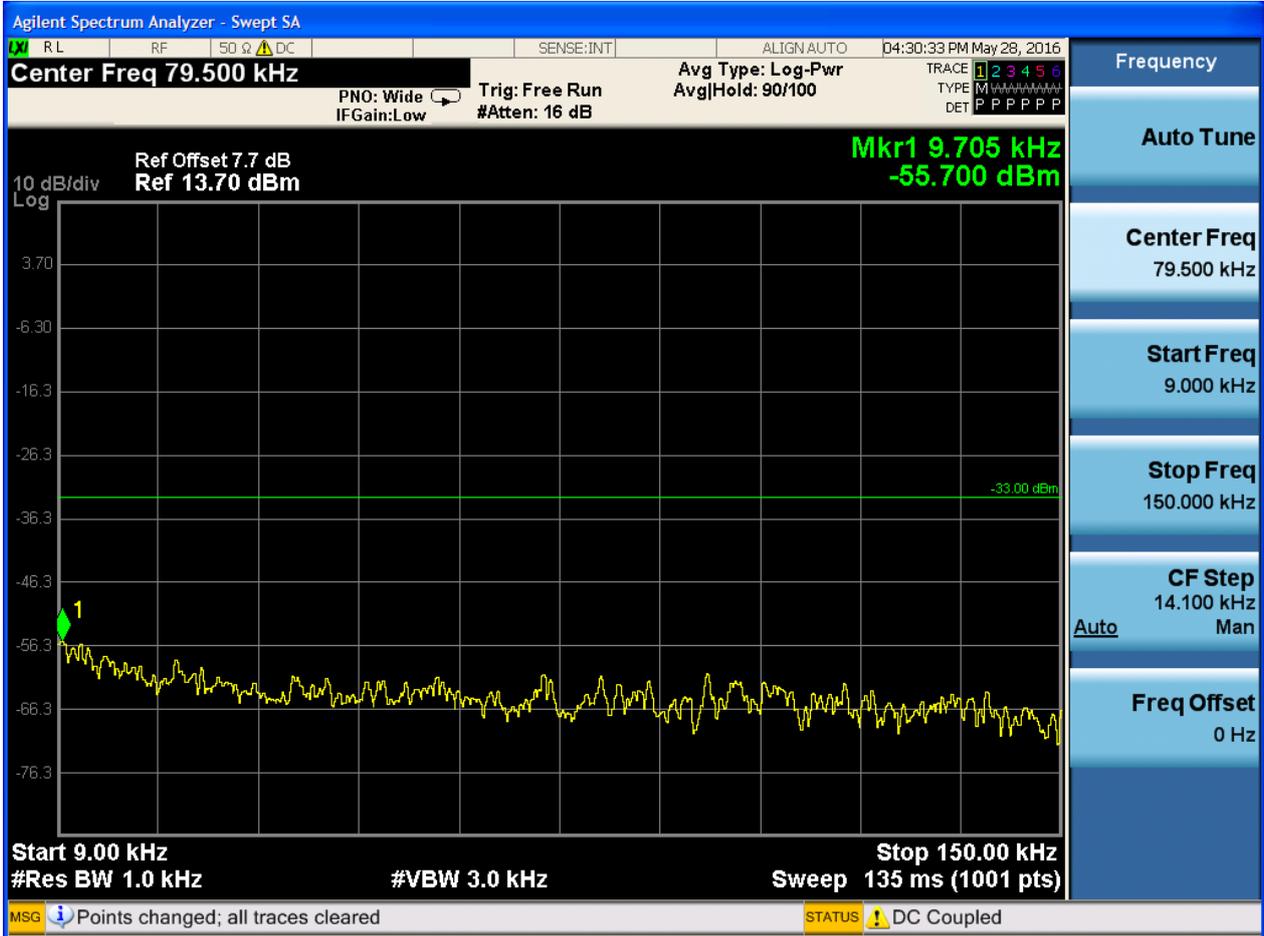


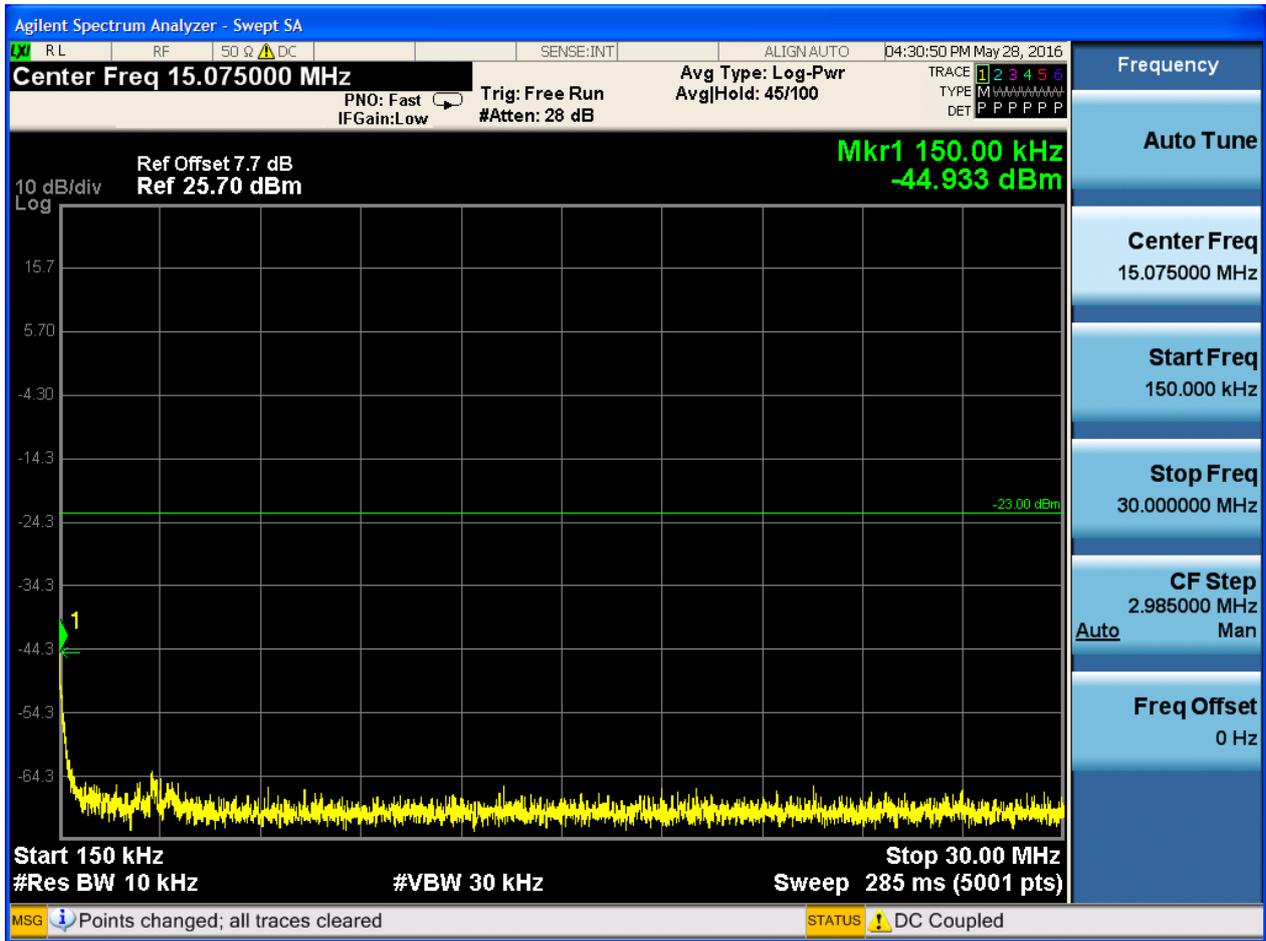


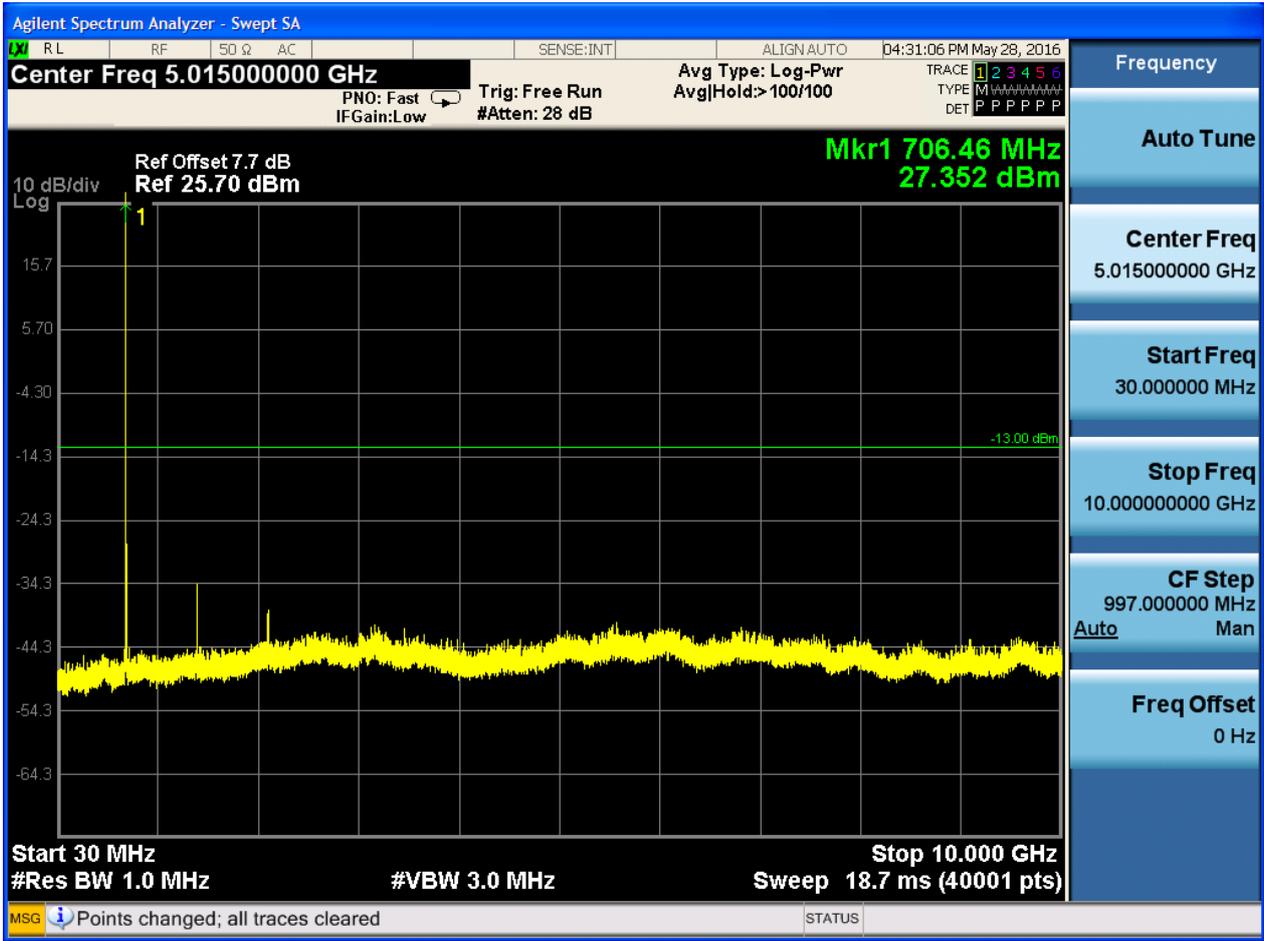


6.1.3.2.2 Test Channel = MCH

6.1.3.2.2.1 Test RB = RB1#0

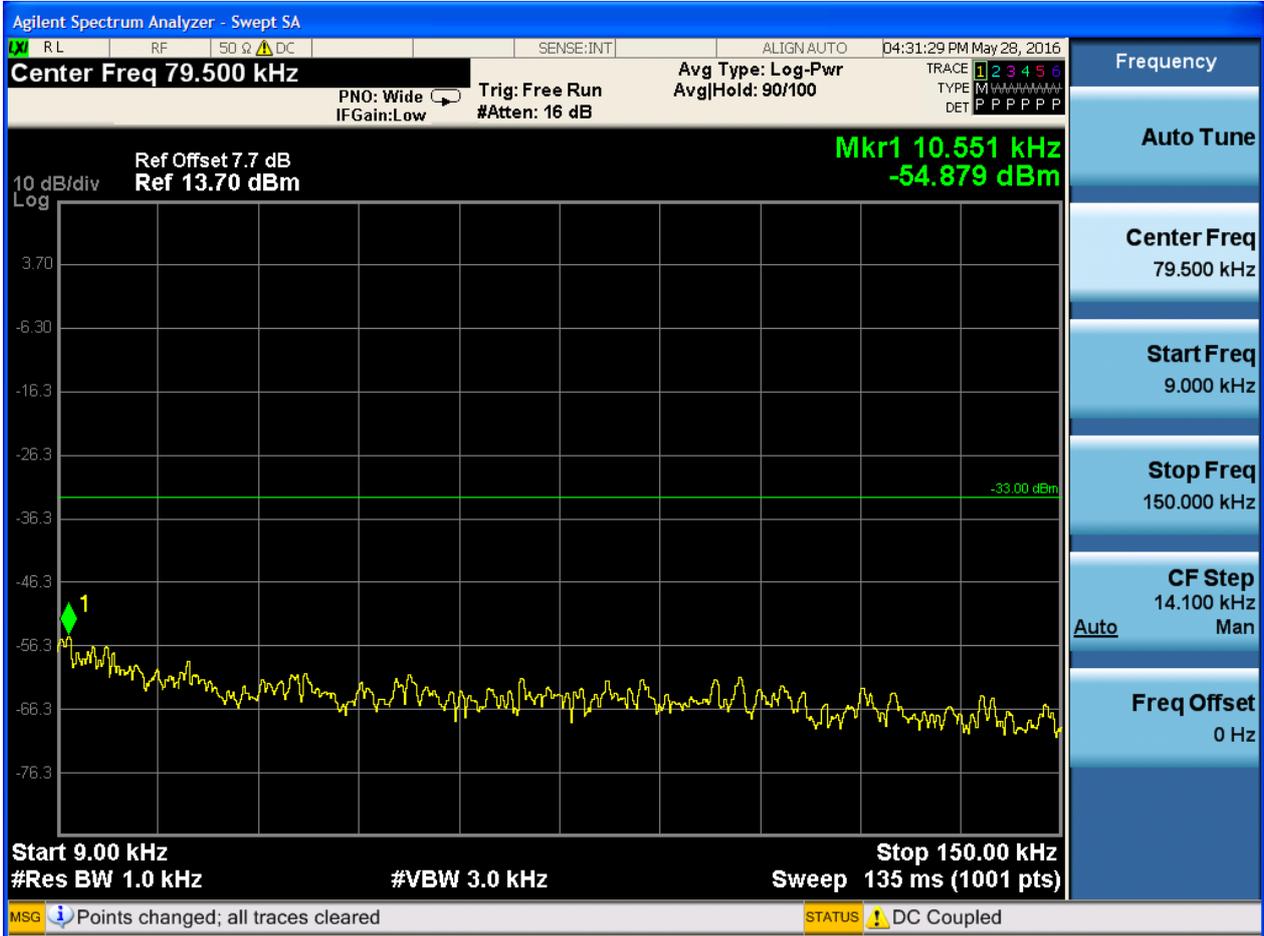




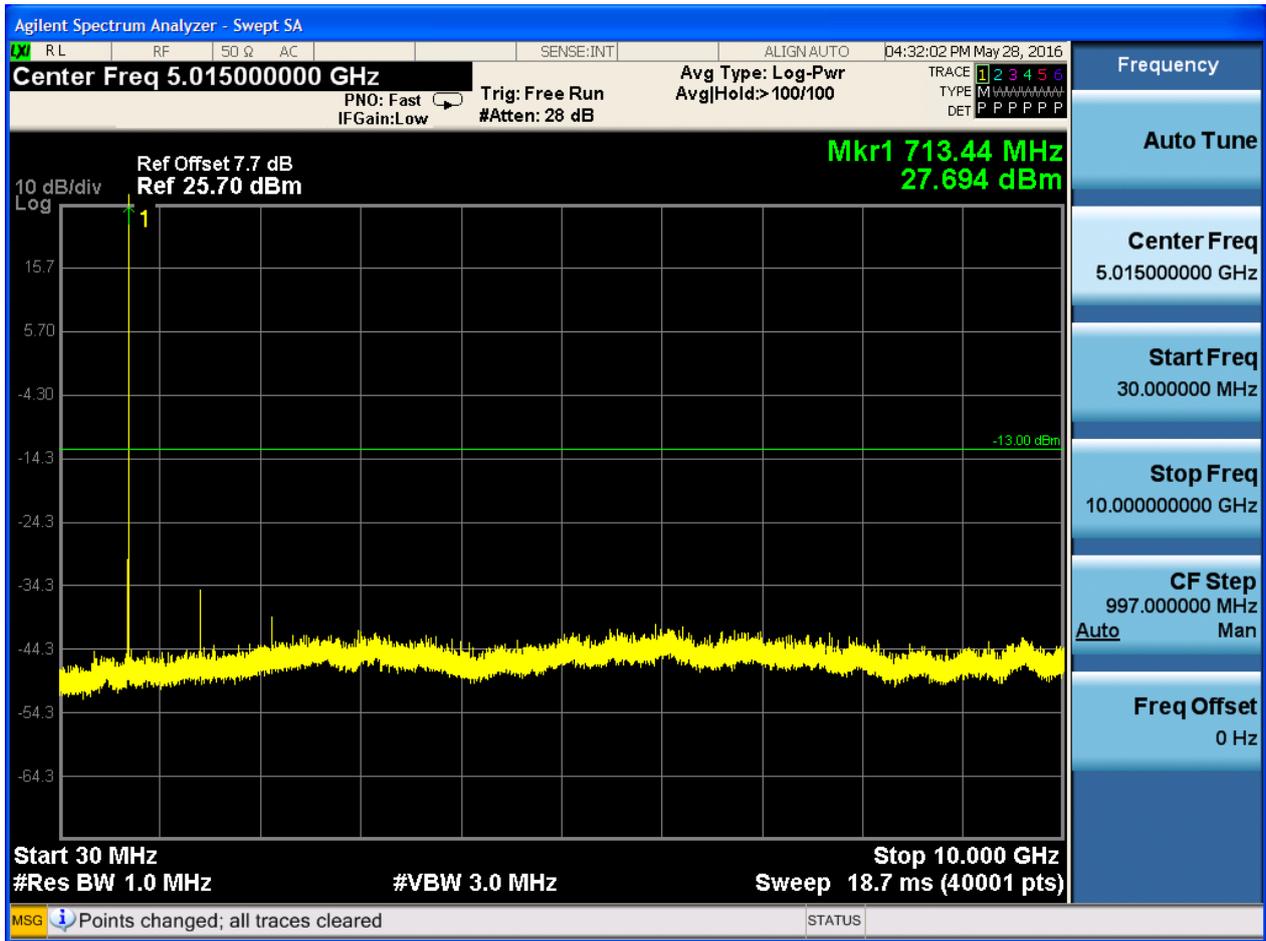


6.1.3.2.2.3 Test Channel = HCH

6.1.3.2.2.3.1 Test RB = RB1#0





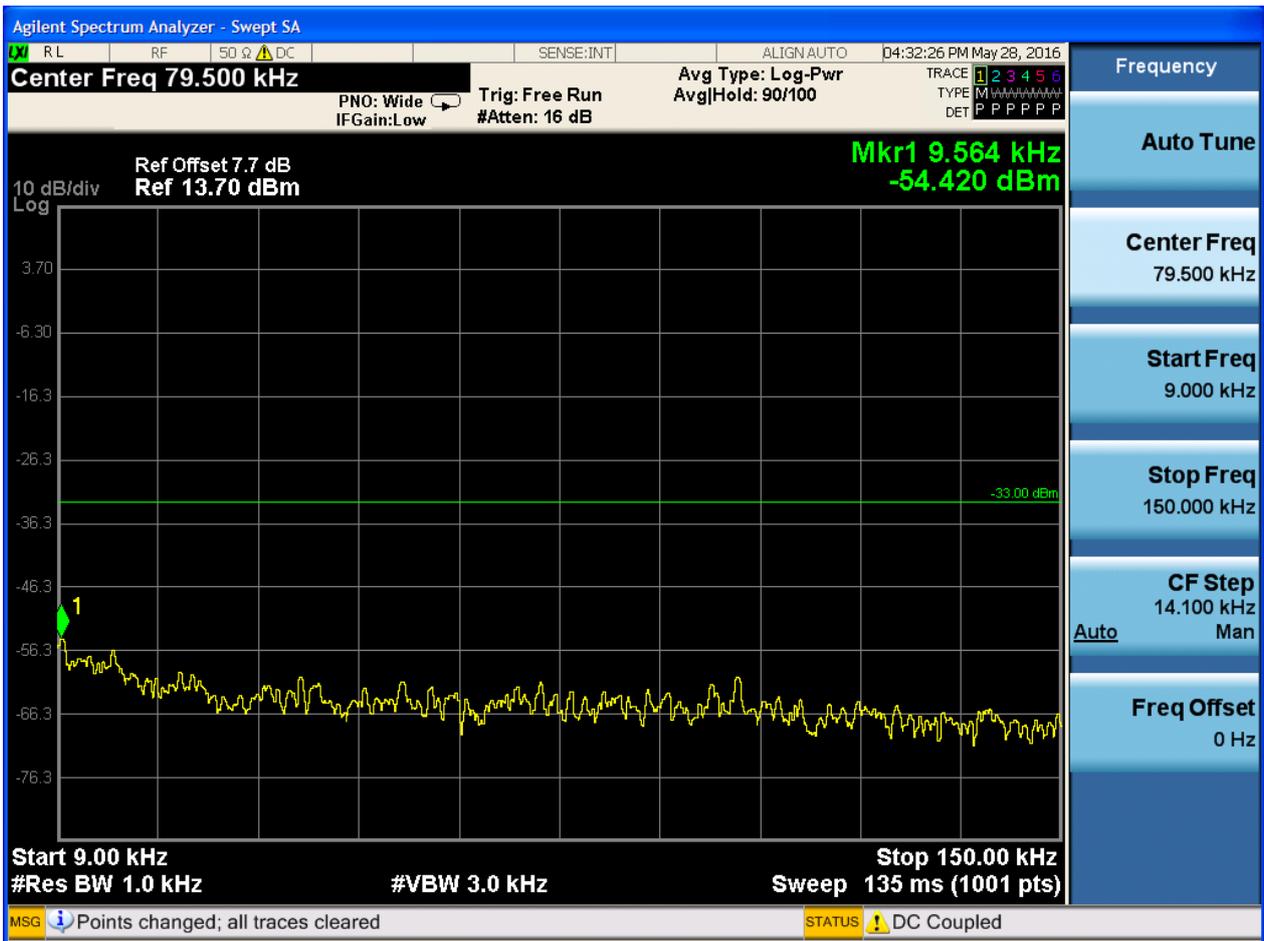




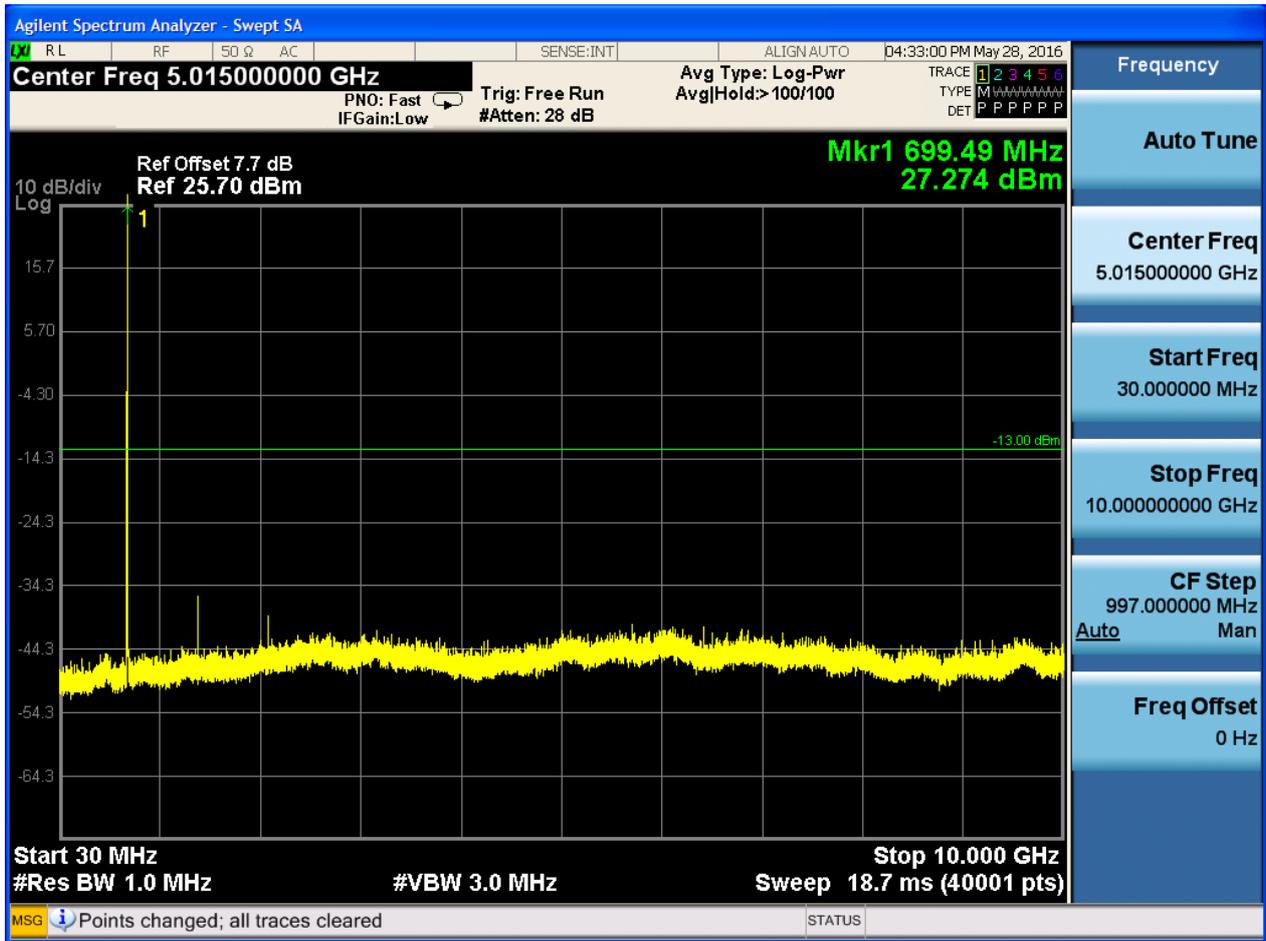
6.1.3.2.3 Test Bandwidth = 5

6.1.3.2.3.1 Test Channel = LCH

6.1.3.2.3.1.1 Test RB = RB1#0



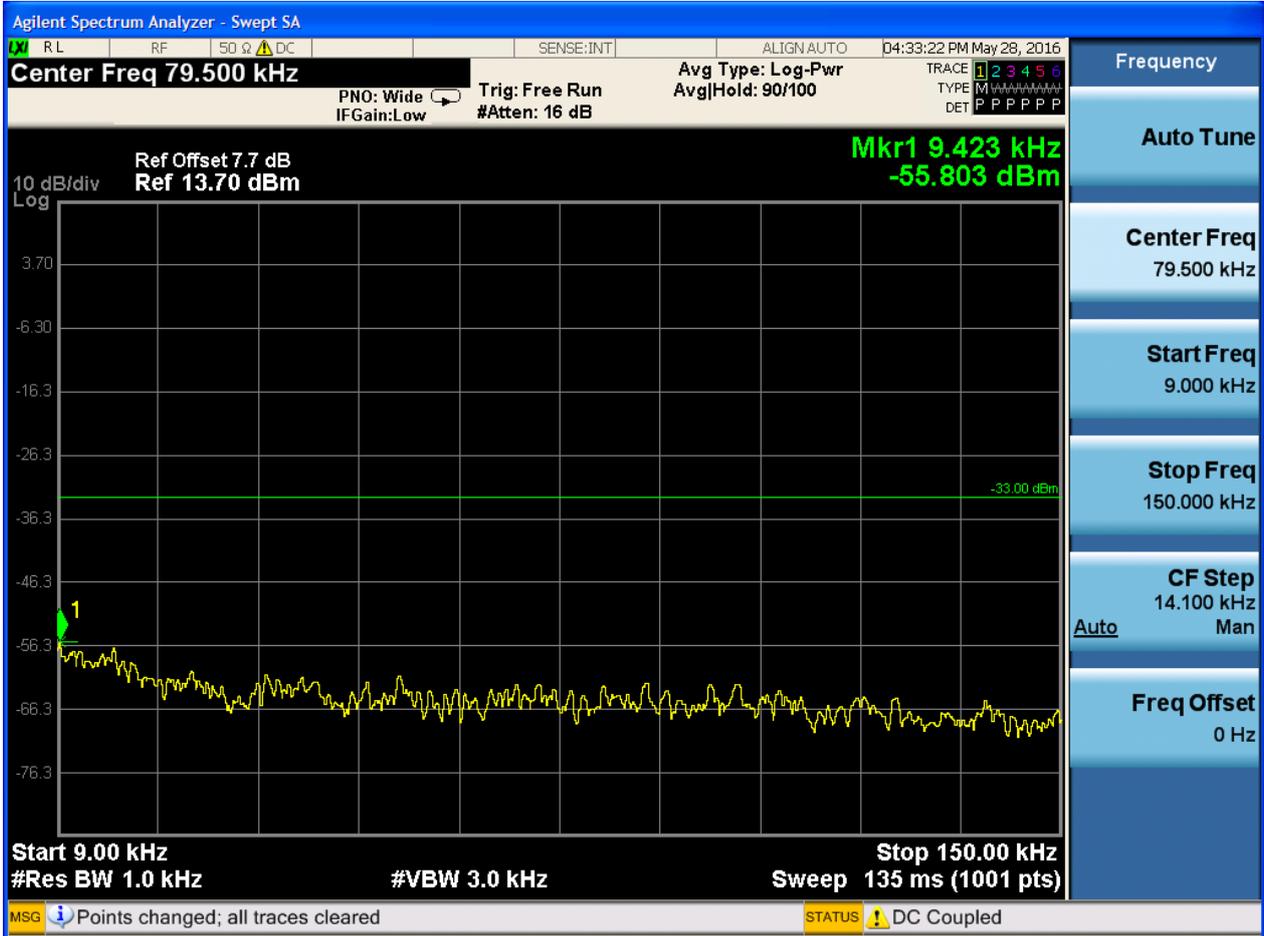


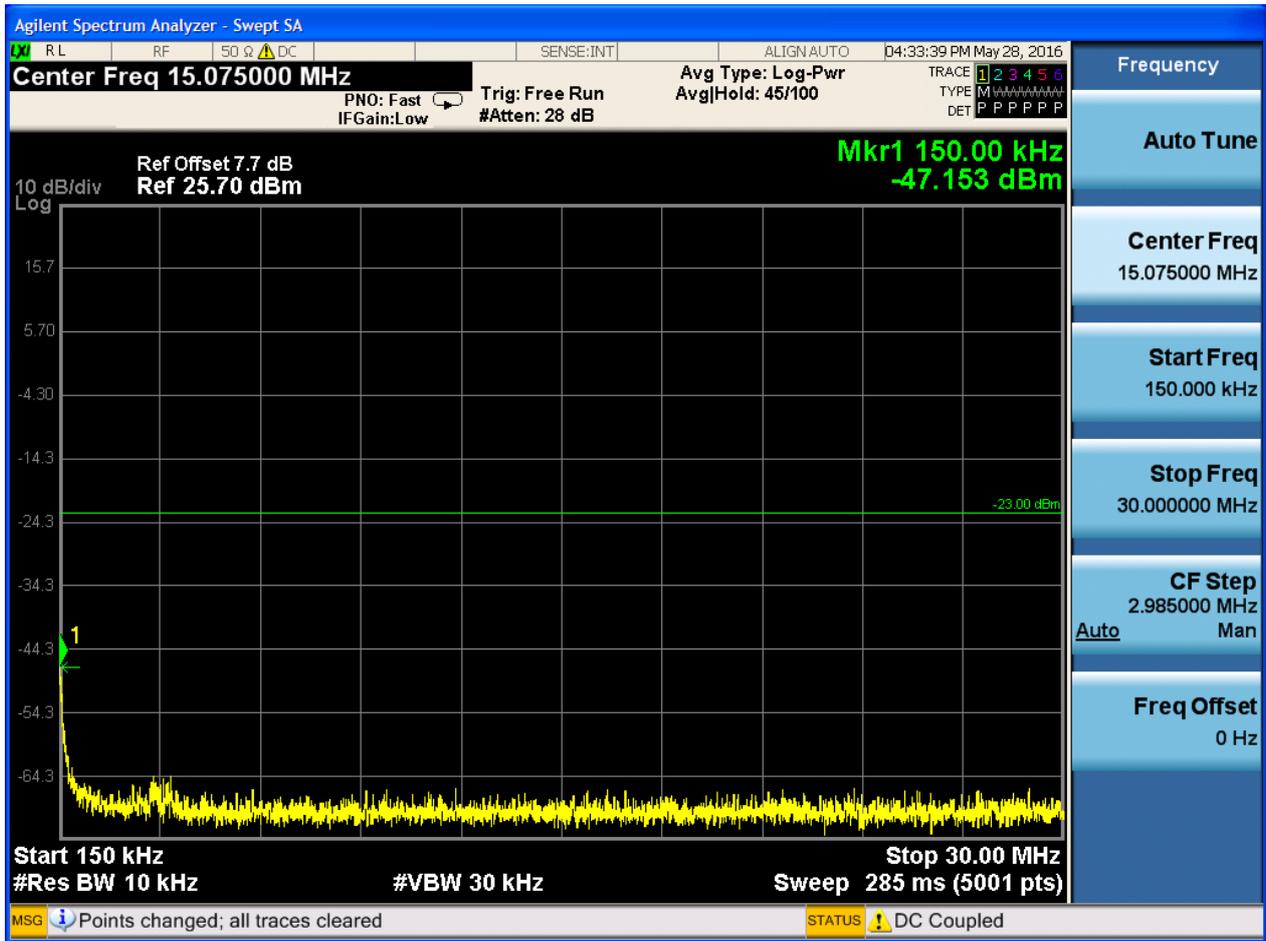


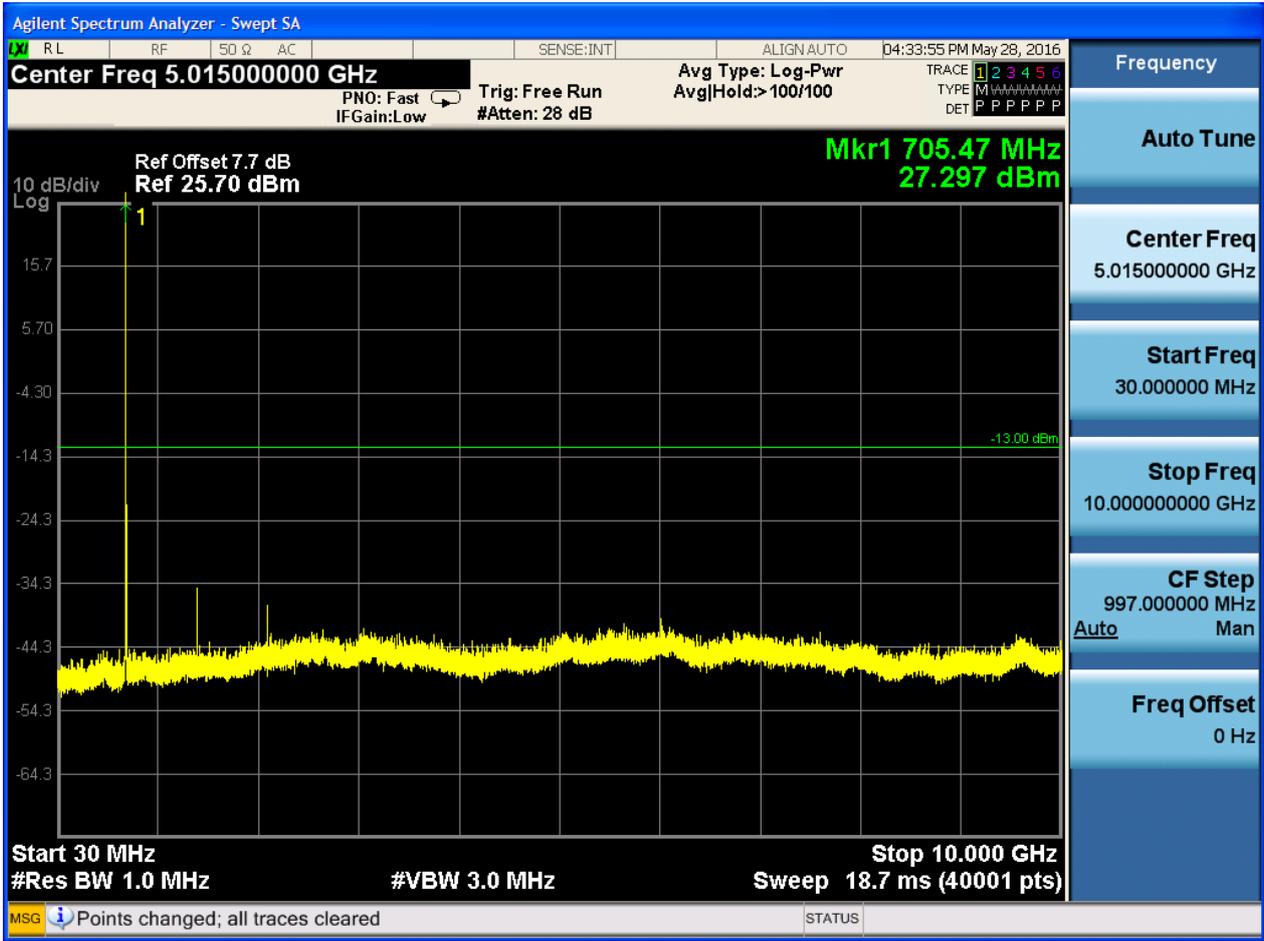


6.1.3.2.3.2 Test Channel = MCH

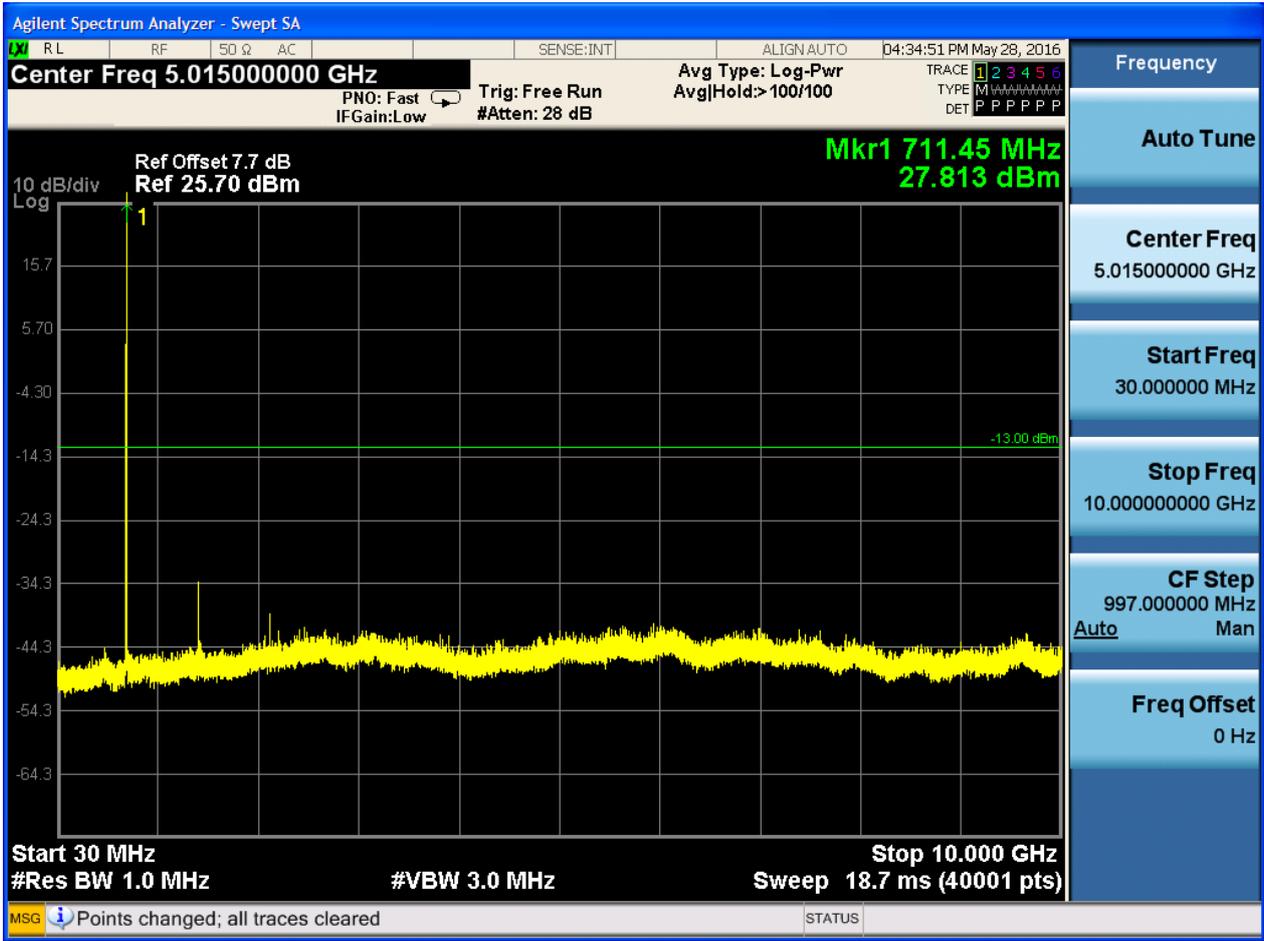
6.1.3.2.3.2.1 Test RB = RB1#0













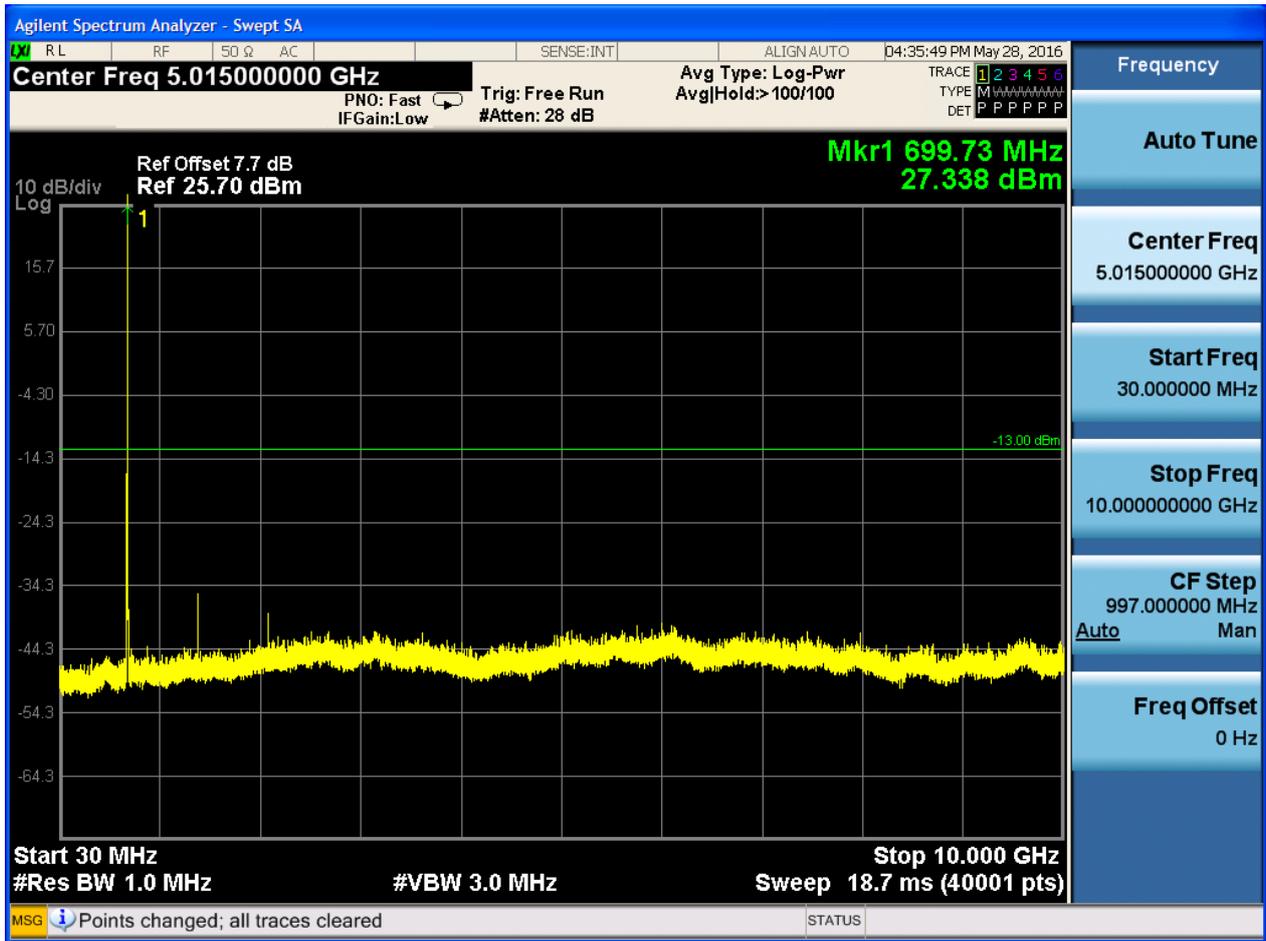
6.1.3.2.4 Test Bandwidth = 10

6.1.3.2.4.1 Test Channel = LCH

6.1.3.2.4.1.1 Test RB = RB1#0



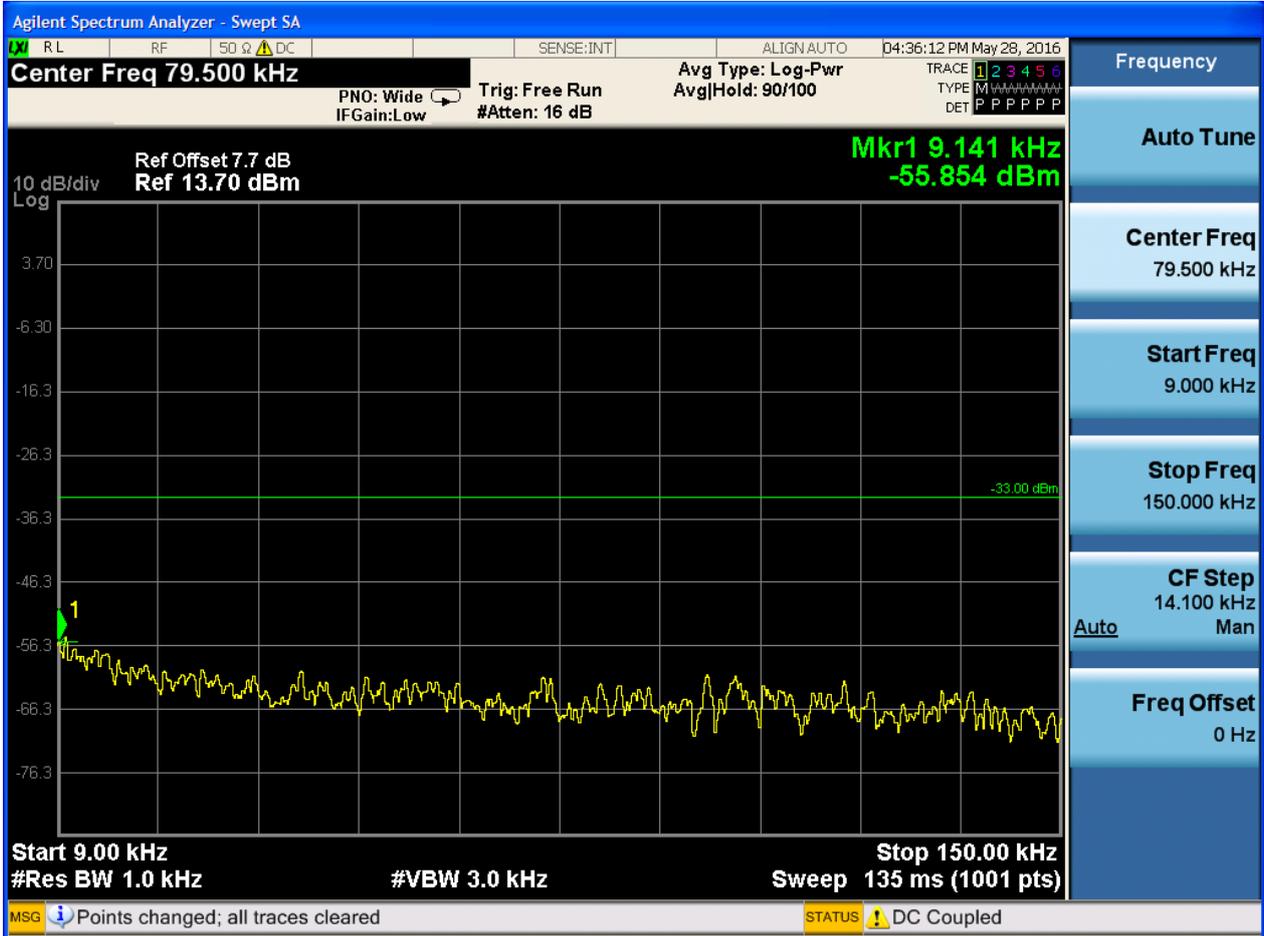


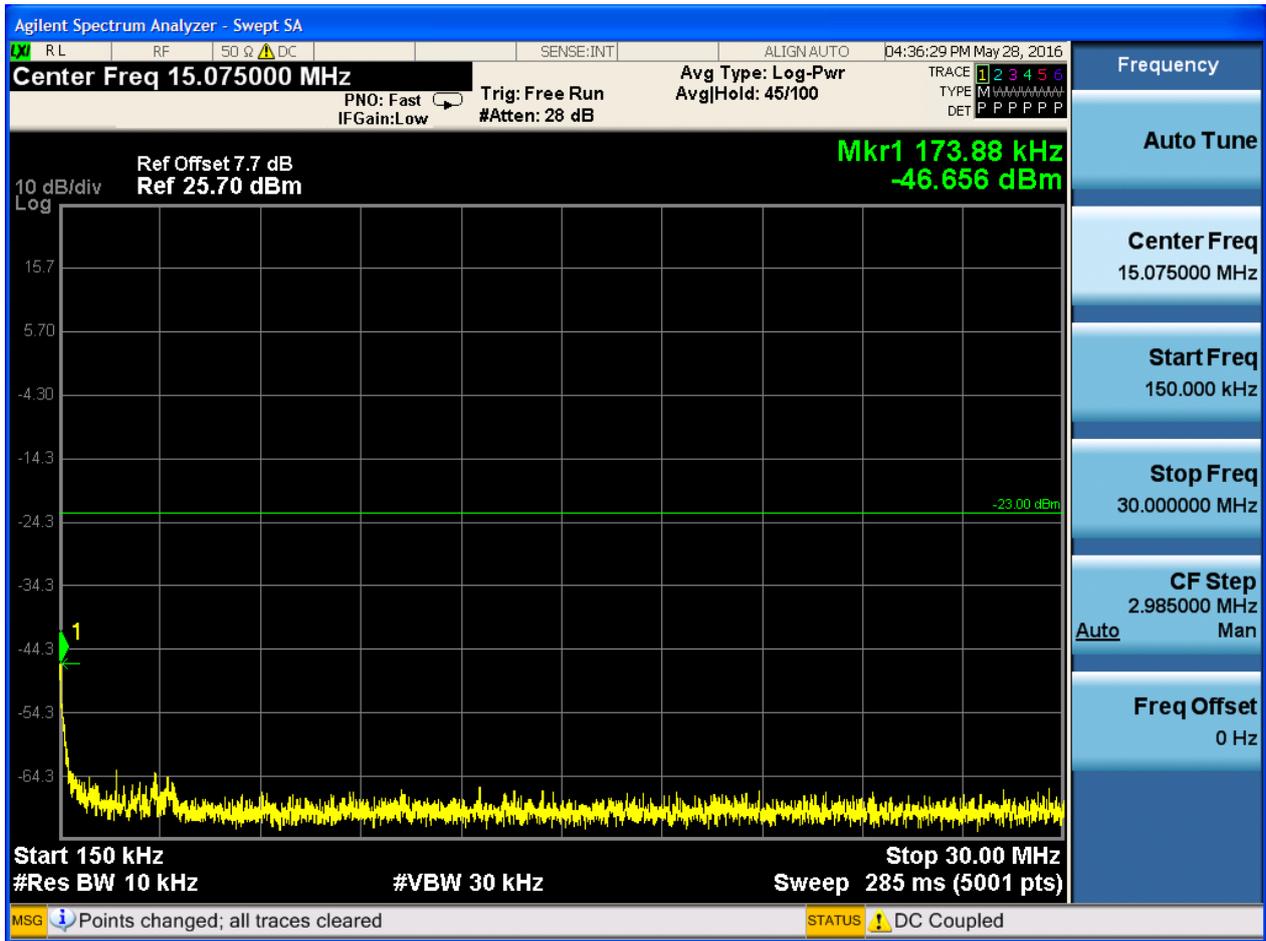


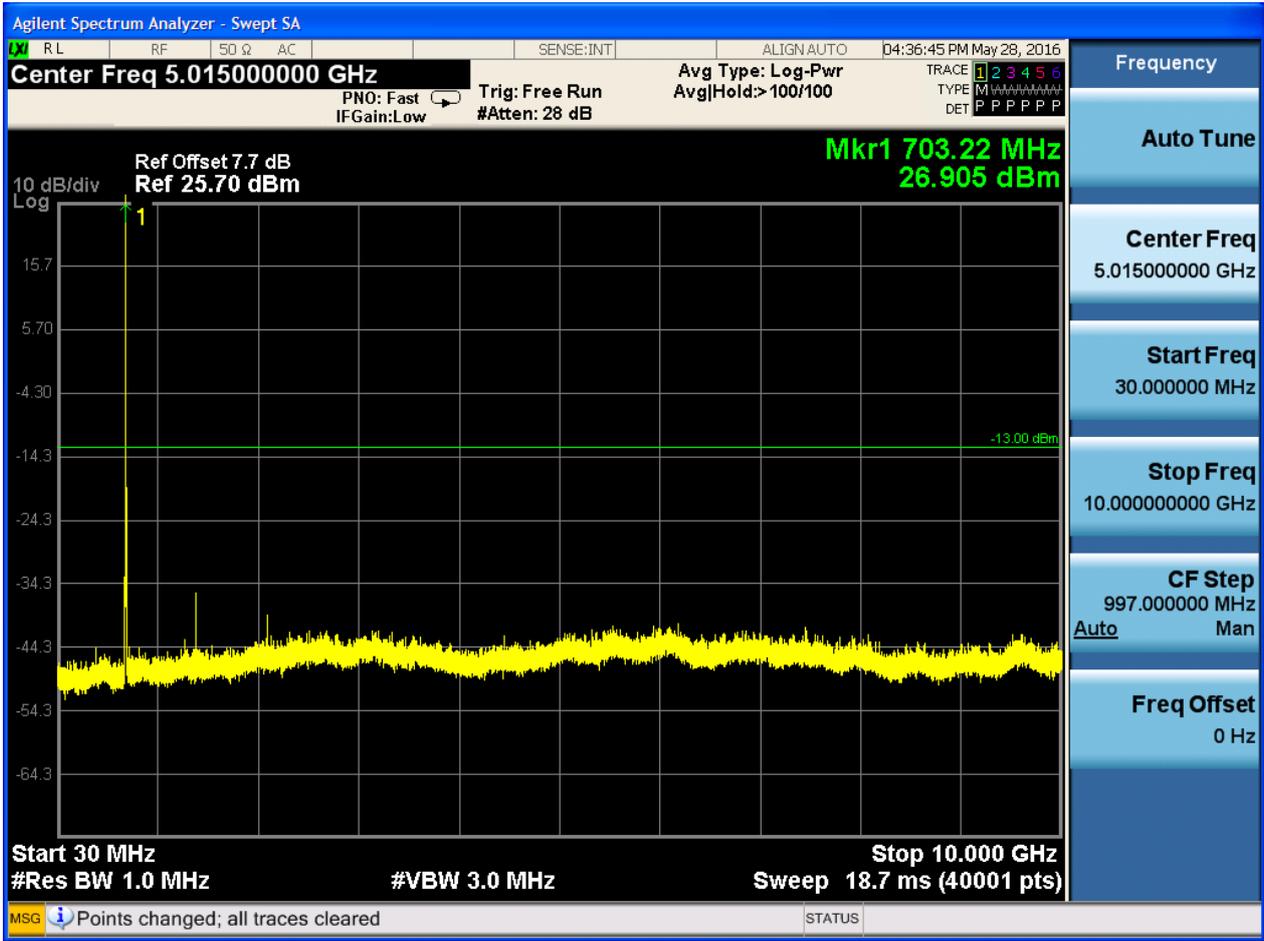


6.1.3.2.4.2 Test Channel = MCH

6.1.3.2.4.2.1 Test RB = RB1#0



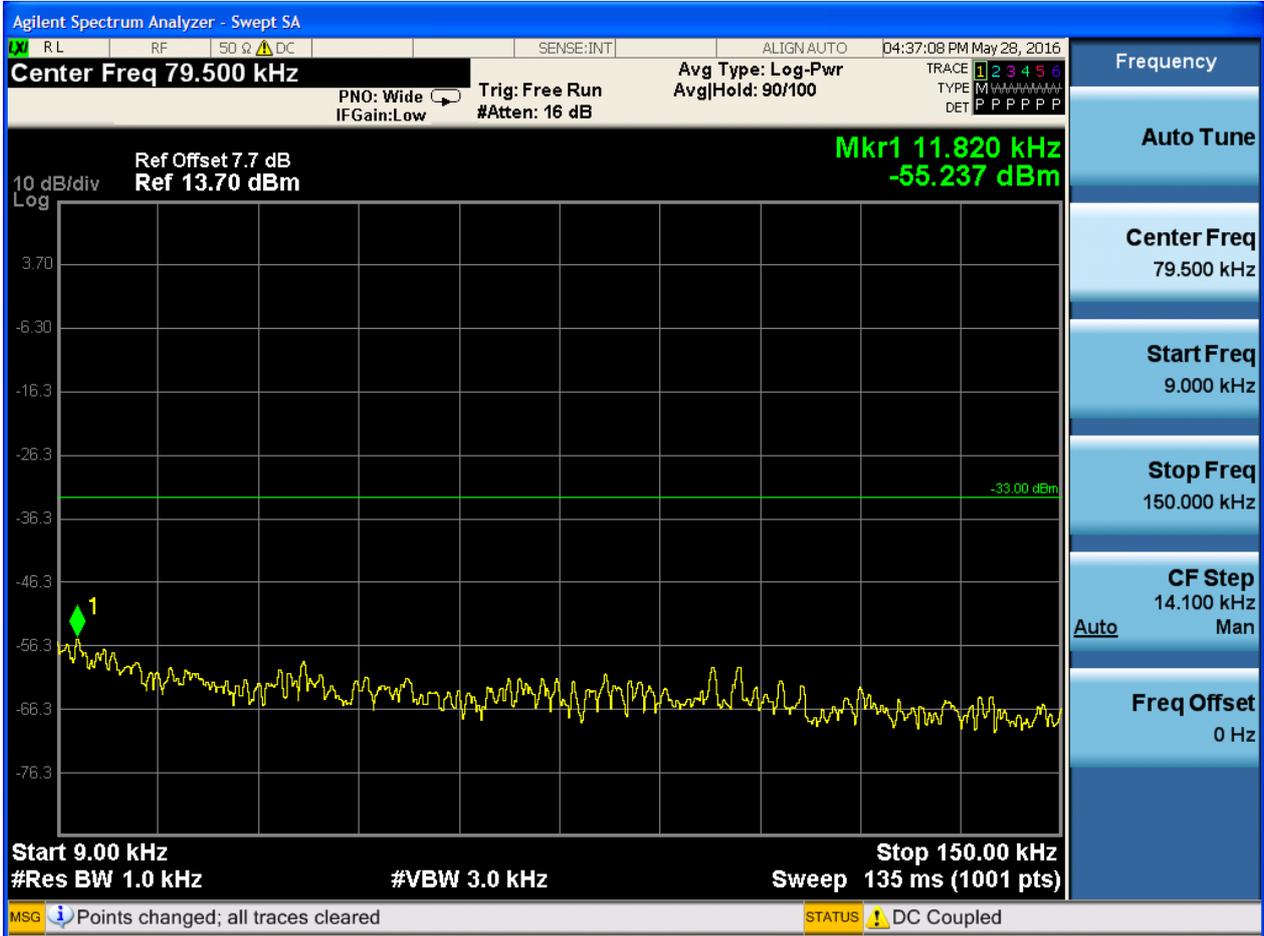


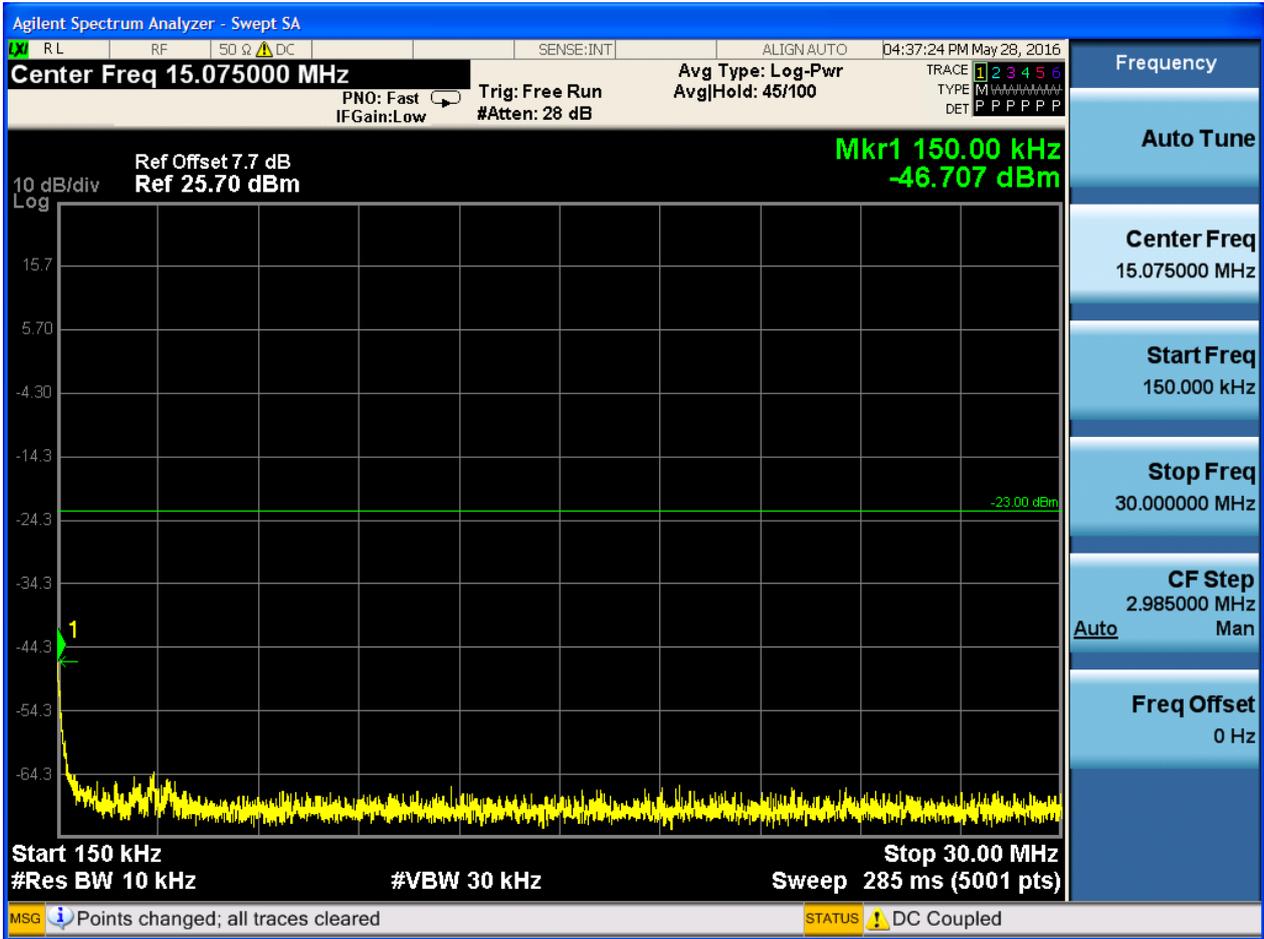


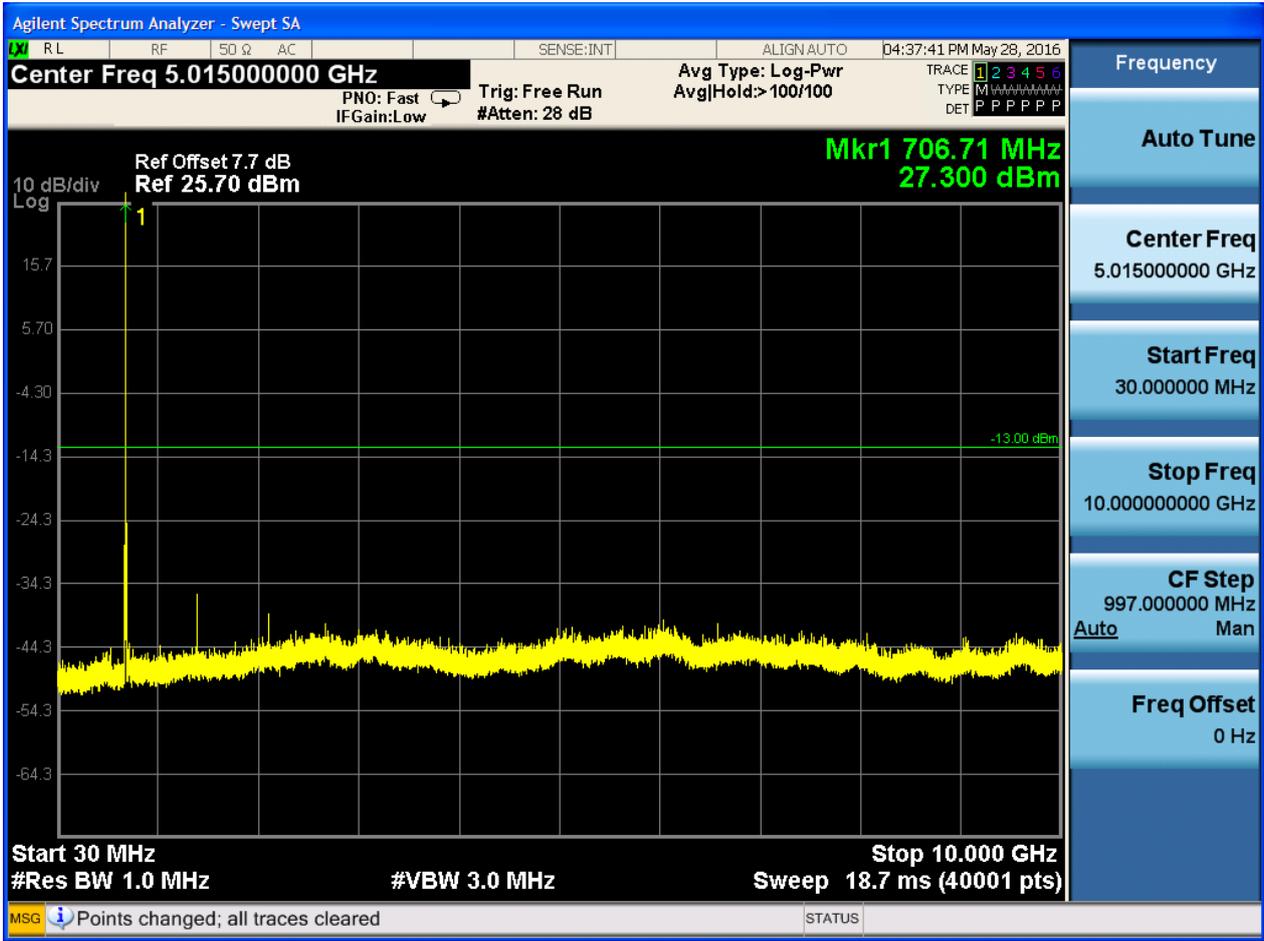


6.1.3.2.4.3 Test Channel = HCH

6.1.3.2.4.3.1 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

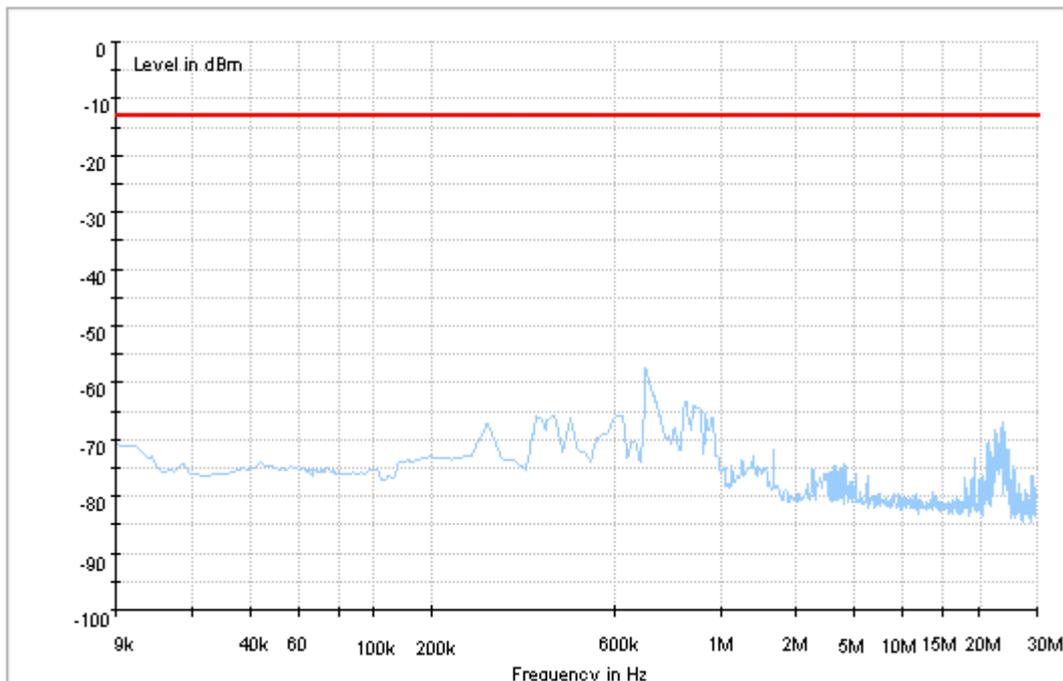
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

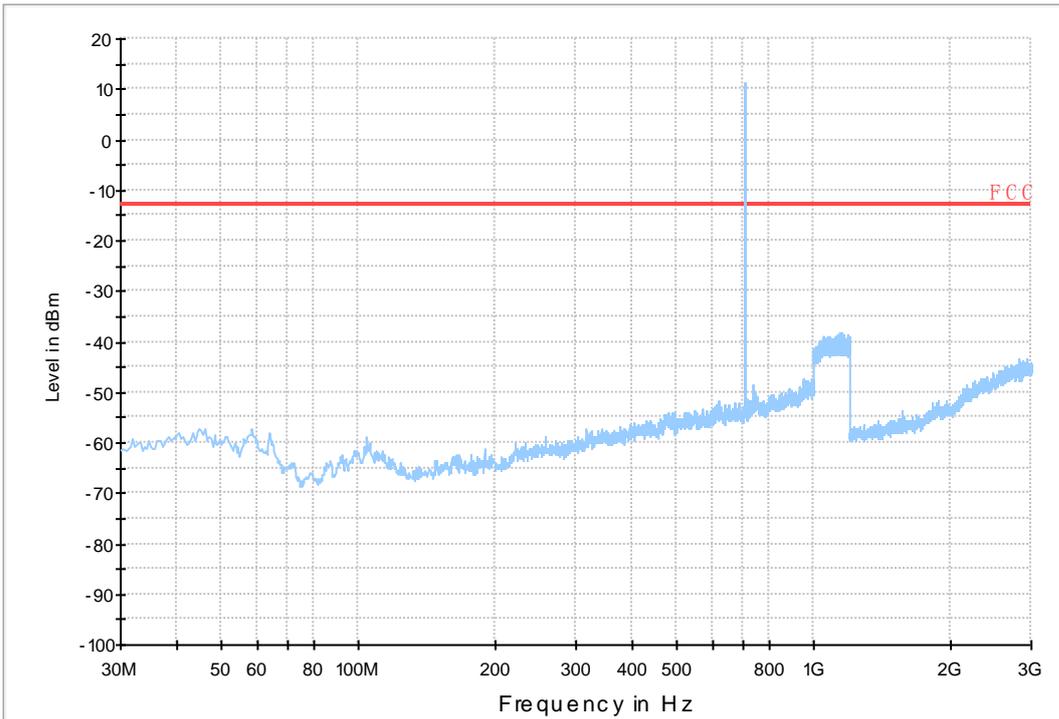
7.1 For LTE

7.1.1 Test Band = BAND12

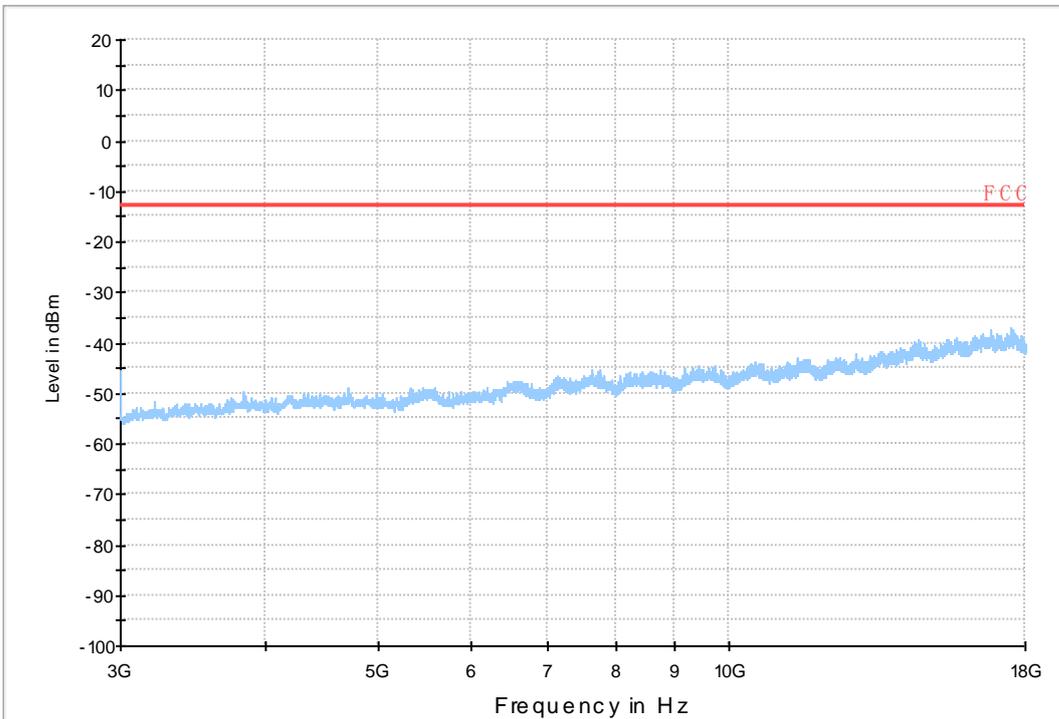
7.1.2.1 Test Bandwidth = 1.4



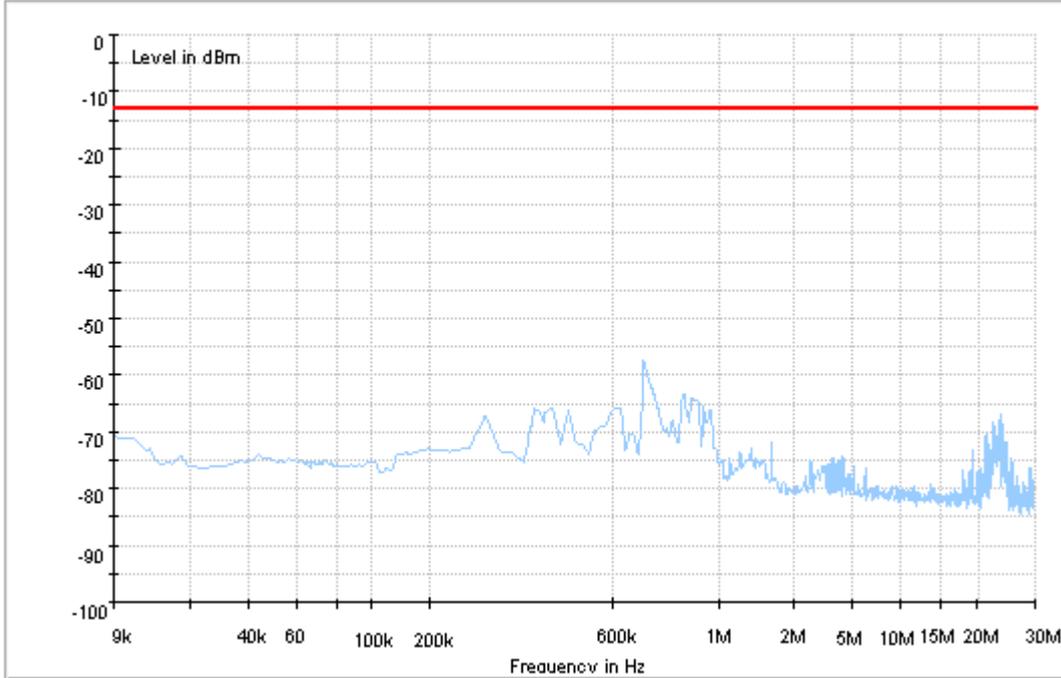
Copy of RSE-TX-DIRECTOR BELOW 1G_L



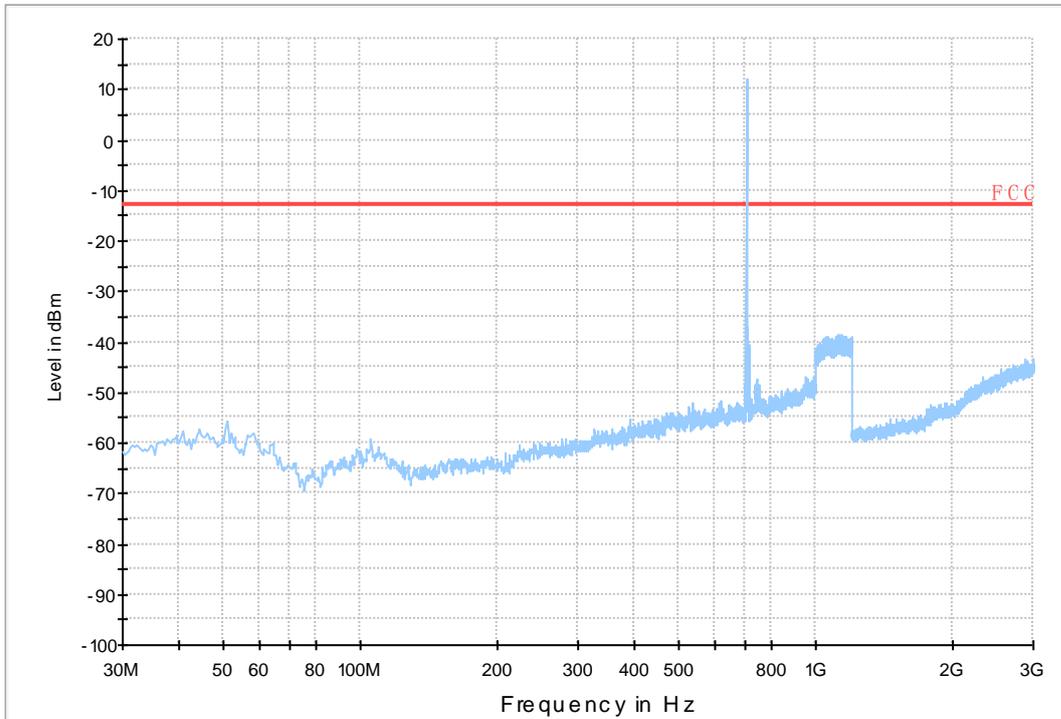
Copy of RSE-TX-DIRECTOR BELOW 1G_H



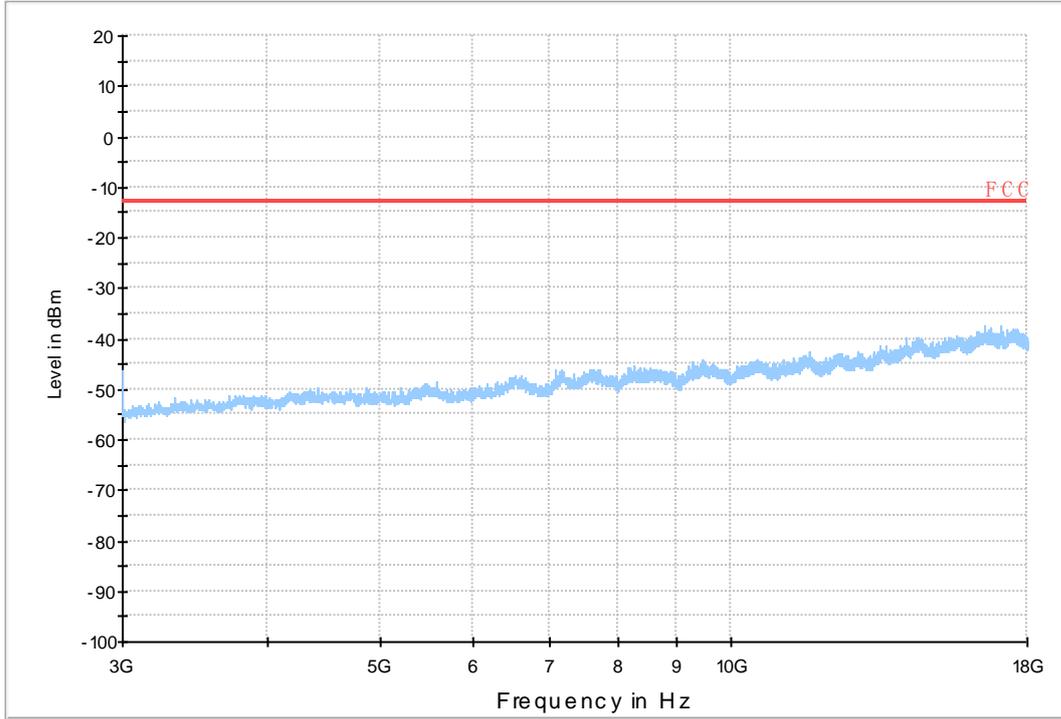
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 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
BAND12	LTE/TM1	1.4	LCH	TN	VL	-1.00	-0.00143	PASS
					VN	-0.14	-0.0002	PASS
					VH	-1.50	-0.00214	PASS
			MCH	TN	VL	-0.59	-0.00083	PASS
					VN	-0.09	-0.00013	PASS
					VH	0.64	0.0009	PASS
			HCH	TN	VL	-0.70	-0.00098	PASS
					VN	0.74	0.00103	PASS
					VH	-0.97	-0.00136	PASS
		3	LCH	TN	VL	-3.43	-0.0049	PASS
					VN	-2.93	-0.00418	PASS
					VH	-4.32	-0.00617	PASS
			MCH	TN	VL	-1.24	-0.00175	PASS
					VN	-0.10	-0.00014	PASS
					VH	-0.30	-0.00042	PASS
			HCH	TN	VL	0.17	0.00024	PASS
					VN	-0.36	-0.0005	PASS
					VH	0.24	0.00034	PASS
		5	LCH	TN	VL	-0.14	-0.0002	PASS
					VN	-0.89	-0.00127	PASS
					VH	-0.01	-0.00001	PASS
			MCH	TN	VL	-1.12	-0.00158	PASS
					VN	-0.89	-0.00126	PASS
					VH	-1.85	-0.00261	PASS
HCH	TN		VL	-0.26	-0.00036	PASS		
			VN	-0.17	-0.00024	PASS		
			VH	-0.53	-0.00074	PASS		
10	LCH	TN	VL	-0.49	-0.0007	PASS		
			VN	-1.37	-0.00195	PASS		
			VH	-0.56	-0.0008	PASS		
	MCH	TN	VL	-3.88	-0.00548	PASS		
			VN	-3.52	-0.00498	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	VH	-4.49	-0.00635	PASS	
					VL	-5.41	-0.00761	PASS	
					VN	-5.87	-0.00826	PASS	
					VH	-5.66	-0.00796	PASS	
		1.4	LCH	TN	VL	-0.49	-0.0007	PASS	
					VN	-1.87	-0.00267	PASS	
					VH	-1.33	-0.0019	PASS	
			MCH	TN	VL	-1.09	-0.00154	PASS	
					VN	-0.67	-0.00095	PASS	
					VH	-0.27	-0.00038	PASS	
			HCH	TN	VL	0.10	0.00014	PASS	
					VN	-0.87	-0.00122	PASS	
					VH	-1.37	-0.00192	PASS	
			3	LCH	TN	VL	-3.18	-0.00454	PASS
						VN	-4.52	-0.00645	PASS
						VH	-3.76	-0.00537	PASS
		MCH		TN	VL	-1.10	-0.00155	PASS	
					VN	-0.70	-0.00099	PASS	
					VH	-0.83	-0.00117	PASS	
		HCH		TN	VL	-0.19	-0.00027	PASS	
					VN	0.56	0.00078	PASS	
					VH	0.27	0.00038	PASS	
		5	LCH	TN	VL	-0.14	-0.0002	PASS	
					VN	-0.87	-0.00124	PASS	
					VH	-0.63	-0.0009	PASS	
			MCH	TN	VL	-0.49	-0.00069	PASS	
					VN	-0.59	-0.00083	PASS	
					VH	-0.43	-0.00061	PASS	
			HCH	TN	VL	-0.13	-0.00018	PASS	
					VN	-0.62	-0.00087	PASS	
					VH	-0.24	-0.00034	PASS	
		10	LCH	TN	VL	0.26	0.00037	PASS	
					VN	-0.34	-0.00048	PASS	
					VH	0.82	0.00116	PASS	
			MCH	TN	VL	-0.70	-0.00099	PASS	
					VN	-1.00	-0.00141	PASS	
					VH	-0.17	-0.00024	PASS	
			HCH	TN	VL	-0.79	-0.00111	PASS	
					VN	-1.44	-0.00203	PASS	
					VH	-1.44	-0.00203	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	0.63	0.00089	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
BAND12	LTE/TM1	1.4	LCH	VN	-30	-0.64	-0.00091	PASS
					-20	-1.36	-0.00194	PASS
					-10	-0.86	-0.00123	PASS
					0	0.10	0.00014	PASS
					10	-0.20	-0.00029	PASS
					20	-0.39	-0.00056	PASS
					30	-0.50	-0.00071	PASS
					40	-0.57	-0.00081	PASS
					50	-0.29	-0.00041	PASS
			MCH	VN	-30	-1.82	-0.00257	PASS
					-20	-0.29	-0.00041	PASS
					-10	-1.02	-0.00144	PASS
					0	-0.62	-0.00088	PASS
					10	-0.77	-0.00109	PASS
					20	-1.10	-0.00155	PASS
					30	-0.51	-0.00072	PASS
					40	-0.86	-0.00122	PASS
					50	-1.12	-0.00158	PASS
		HCH	VN	-30	-0.41	-0.00057	PASS	
				-20	-1.43	-0.002	PASS	
				-10	0.33	0.00046	PASS	
				0	0.29	0.00041	PASS	
				10	-0.62	-0.00087	PASS	
				20	-2.32	-0.00324	PASS	
				30	-0.80	-0.00112	PASS	
				40	-2.32	-0.00324	PASS	
				50	-0.23	-0.00032	PASS	
		3	LCH	VN	-30	-4.55	-0.0065	PASS
					-20	-3.02	-0.00431	PASS
					-10	-4.25	-0.00607	PASS
0	-4.41				-0.0063	PASS		
10	-4.76				-0.0068	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-4.25	-0.00607	PASS
					30	-3.48	-0.00497	PASS
					40	-3.99	-0.0057	PASS
					50	-5.09	-0.00727	PASS
			MCH	VN	-30	-1.80	-0.00254	PASS
					-20	-2.57	-0.00363	PASS
					-10	-1.16	-0.00164	PASS
					0	-1.60	-0.00226	PASS
					10	-1.59	-0.00225	PASS
					20	-1.53	-0.00216	PASS
					30	-0.33	-0.00047	PASS
					40	-0.39	-0.00055	PASS
			HCH	VN	-30	-0.60	-0.00084	PASS
					-20	-0.09	-0.00013	PASS
					-10	-0.92	-0.00129	PASS
					0	-1.06	-0.00148	PASS
		10			-1.85	-0.00259	PASS	
		20			-0.31	-0.00043	PASS	
		30			-0.53	-0.00074	PASS	
		40			-0.21	-0.00029	PASS	
		5	LCH	VN	-30	-0.90	-0.00128	PASS
					-20	-0.43	-0.00061	PASS
					-10	-1.29	-0.00184	PASS
					0	-1.16	-0.00165	PASS
					10	0.06	0.00009	PASS
					20	-0.76	-0.00108	PASS
					30	-0.47	-0.00067	PASS
					40	-0.86	-0.00123	PASS
			MCH	VN	-30	-0.99	-0.0014	PASS
					-20	-1.14	-0.00161	PASS
					-10	-0.54	-0.00076	PASS
					0	-1.50	-0.00212	PASS
10	-1.23				-0.00174	PASS		
20	-0.97				-0.00137	PASS		
30	-1.13				-0.0016	PASS		
40	-1.12				-0.00158	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
			HCH	VN	50	-0.80	-0.00113	PASS		
					-30	-1.09	-0.00153	PASS		
					-20	0.53	0.00074	PASS		
					-10	-1.24	-0.00174	PASS		
					0	0.24	0.00034	PASS		
					10	0.04	0.00006	PASS		
					20	-0.06	-0.00008	PASS		
					30	0.53	0.00074	PASS		
					40	-0.50	-0.0007	PASS		
					50	0.57	0.0008	PASS		
					LCH	VN	-30	-0.16	-0.00023	PASS
							-20	-1.23	-0.00175	PASS
							-10	-2.55	-0.00362	PASS
							0	-1.75	-0.00249	PASS
							10	-1.57	-0.00223	PASS
							20	-1.63	-0.00232	PASS
							30	-2.13	-0.00303	PASS
							40	-1.16	-0.00165	PASS
							50	-0.94	-0.00134	PASS
										MCH
		-20	-3.30	-0.00466	PASS					
		-10	-2.89	-0.00408	PASS					
		0	-4.09	-0.00578	PASS					
		10	-3.60	-0.00509	PASS					
		20	-2.42	-0.00342	PASS					
		30	-2.83	-0.004	PASS					
		40	-3.35	-0.00473	PASS					
		50	-3.98	-0.00563	PASS					
					HCH	VN				
							-20	-4.35	-0.00612	PASS
							-10	-5.25	-0.00738	PASS
							0	-4.35	-0.00612	PASS
							10	-4.82	-0.00678	PASS
							20	-4.88	-0.00686	PASS
							30	-6.29	-0.00885	PASS
							40	-6.34	-0.00892	PASS
							50	-5.59	-0.00786	PASS
								LTE/TM2	1.4	LCH
		-20	-0.67	-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	-1.09	-0.00156	PASS
					0	-1.63	-0.00233	PASS
					10	-1.24	-0.00177	PASS
					20	-2.09	-0.00299	PASS
					30	-0.03	-0.00004	PASS
					40	-0.27	-0.00039	PASS
					50	-0.41	-0.00059	PASS
			MCH	VN	-30	-1.07	-0.00151	PASS
					-20	-0.51	-0.00072	PASS
					-10	-0.66	-0.00093	PASS
					0	-1.52	-0.00215	PASS
					10	-0.43	-0.00061	PASS
					20	-1.33	-0.00188	PASS
					30	0.76	0.00107	PASS
					40	-0.79	-0.00112	PASS
			HCH	VN	-30	-1.12	-0.00157	PASS
					-20	-1.29	-0.0018	PASS
					-10	-2.02	-0.00282	PASS
					0	-2.29	-0.0032	PASS
					10	-1.47	-0.00206	PASS
					20	-1.60	-0.00224	PASS
		30			-0.60	-0.00084	PASS	
		40			0.99	0.00138	PASS	
		3	LCH	VN	-30	-1.17	-0.00167	PASS
					-20	-0.96	-0.00137	PASS
					-10	-1.49	-0.00213	PASS
					0	-1.03	-0.00147	PASS
					10	-0.40	-0.00057	PASS
					20	0.21	0.0003	PASS
					30	0.06	0.00009	PASS
					40	0.80	0.00114	PASS
			MCH	VN	-30	-5.48	-0.00775	PASS
					-20	-5.89	-0.00833	PASS
					-10	-5.28	-0.00746	PASS
					0	-6.51	-0.0092	PASS
					10	-5.58	-0.00789	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					20	-4.03	-0.0057	PASS		
					30	-5.46	-0.00772	PASS		
					40	-5.46	-0.00772	PASS		
					50	-5.87	-0.0083	PASS		
			HCH	VN	-30	-0.20	-0.00028	PASS		
					-20	-0.26	-0.00036	PASS		
					-10	-0.39	-0.00055	PASS		
					0	-1.60	-0.00224	PASS		
					10	-0.16	-0.00022	PASS		
					20	-1.77	-0.00248	PASS		
					30	-1.57	-0.0022	PASS		
					40	-1.23	-0.00172	PASS		
					50	-1.03	-0.00144	PASS		
					LCH	VN	-30	-0.89	-0.00127	PASS
		-20					-1.54	-0.0022	PASS	
		-10					-0.90	-0.00128	PASS	
		0	-1.10	-0.00157			PASS			
		10	-1.32	-0.00188			PASS			
		20	-1.27	-0.00181			PASS			
		30	-0.29	-0.00041			PASS			
		40	-0.79	-0.00113			PASS			
		MCH	VN	50	0.04	0.00006	PASS			
				-30	-1.00	-0.00141	PASS			
				-20	-2.02	-0.00286	PASS			
				-10	-1.72	-0.00243	PASS			
				0	-1.43	-0.00202	PASS			
				10	-2.59	-0.00366	PASS			
				20	-1.99	-0.00281	PASS			
				30	-2.07	-0.00293	PASS			
		HCH	VN	40	-1.70	-0.0024	PASS			
				50	-1.20	-0.0017	PASS			
				-30	0.27	0.00038	PASS			
				-20	-0.31	-0.00043	PASS			
				-10	-1.02	-0.00143	PASS			
				0	-0.59	-0.00083	PASS			
				10	0.51	0.00071	PASS			
				20	-0.34	-0.00048	PASS			
				5			30	-0.40	-0.00056	PASS
							40	1.32	0.00185	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	-0.27	-0.00038	PASS
		10	LCH	VN	-30	-1.62	-0.0023	PASS
					-20	-2.00	-0.00284	PASS
					-10	-1.85	-0.00263	PASS
					0	-1.54	-0.00219	PASS
					10	-1.29	-0.00183	PASS
					20	-2.22	-0.00315	PASS
					30	-2.07	-0.00294	PASS
					40	-2.30	-0.00327	PASS
					50	-1.60	-0.00227	PASS
			MCH	VN	-30	-1.20	-0.0017	PASS
					-20	-2.69	-0.0038	PASS
					-10	-2.37	-0.00335	PASS
					0	-2.15	-0.00304	PASS
					10	-2.45	-0.00346	PASS
					20	-1.85	-0.00261	PASS
					30	-1.46	-0.00206	PASS
					40	-1.65	-0.00233	PASS
					50	-0.76	-0.00107	PASS
			HCH	VN	-30	-0.66	-0.00093	PASS
					-20	-0.07	-0.0001	PASS
					-10	-0.46	-0.00065	PASS
					0	-0.92	-0.00129	PASS
					10	-0.04	-0.00006	PASS
					20	-0.82	-0.00115	PASS
		30			-1.26	-0.00177	PASS	
		40			-1.17	-0.00165	PASS	
		50			-0.40	-0.00056	PASS	

END