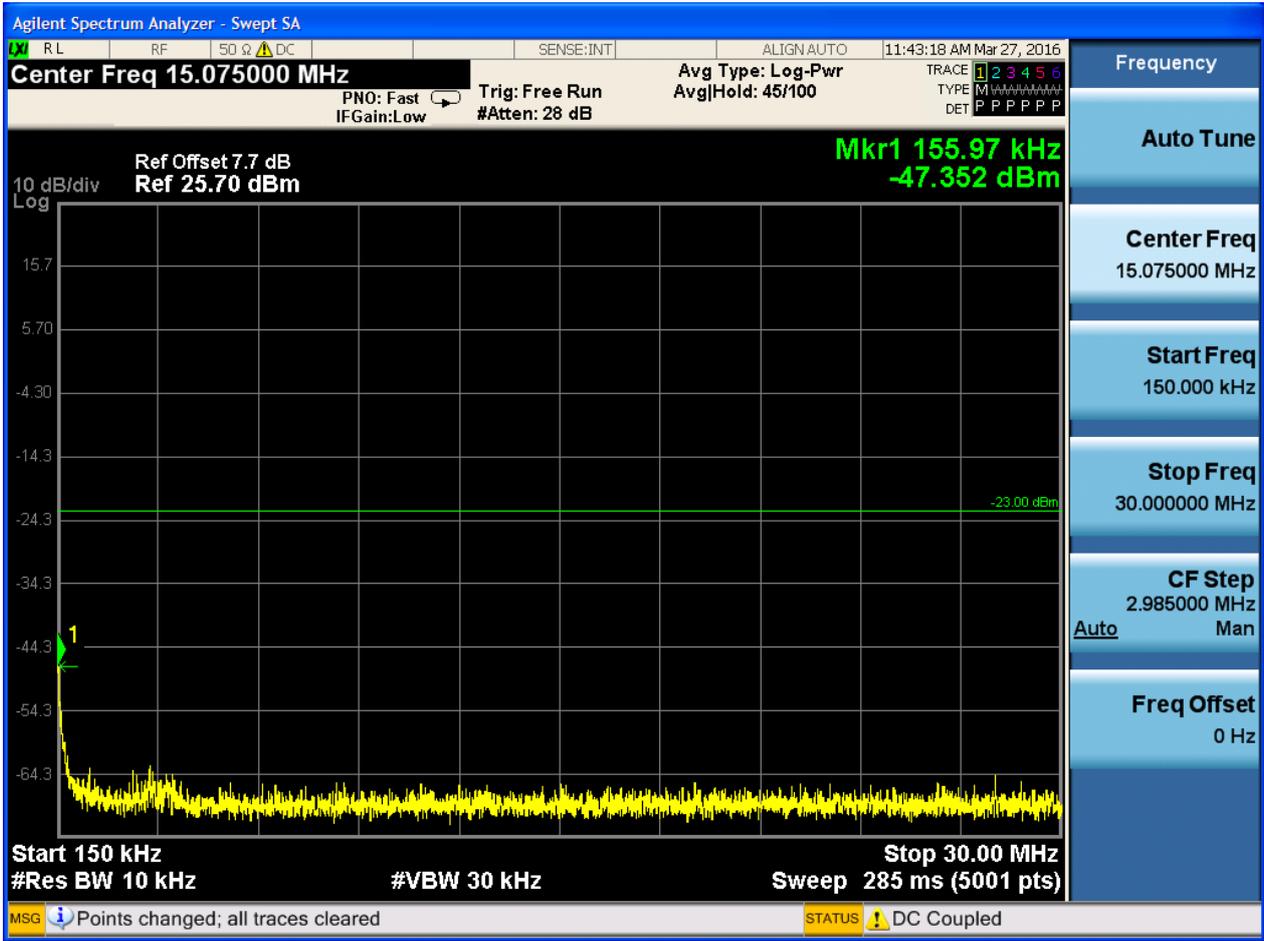


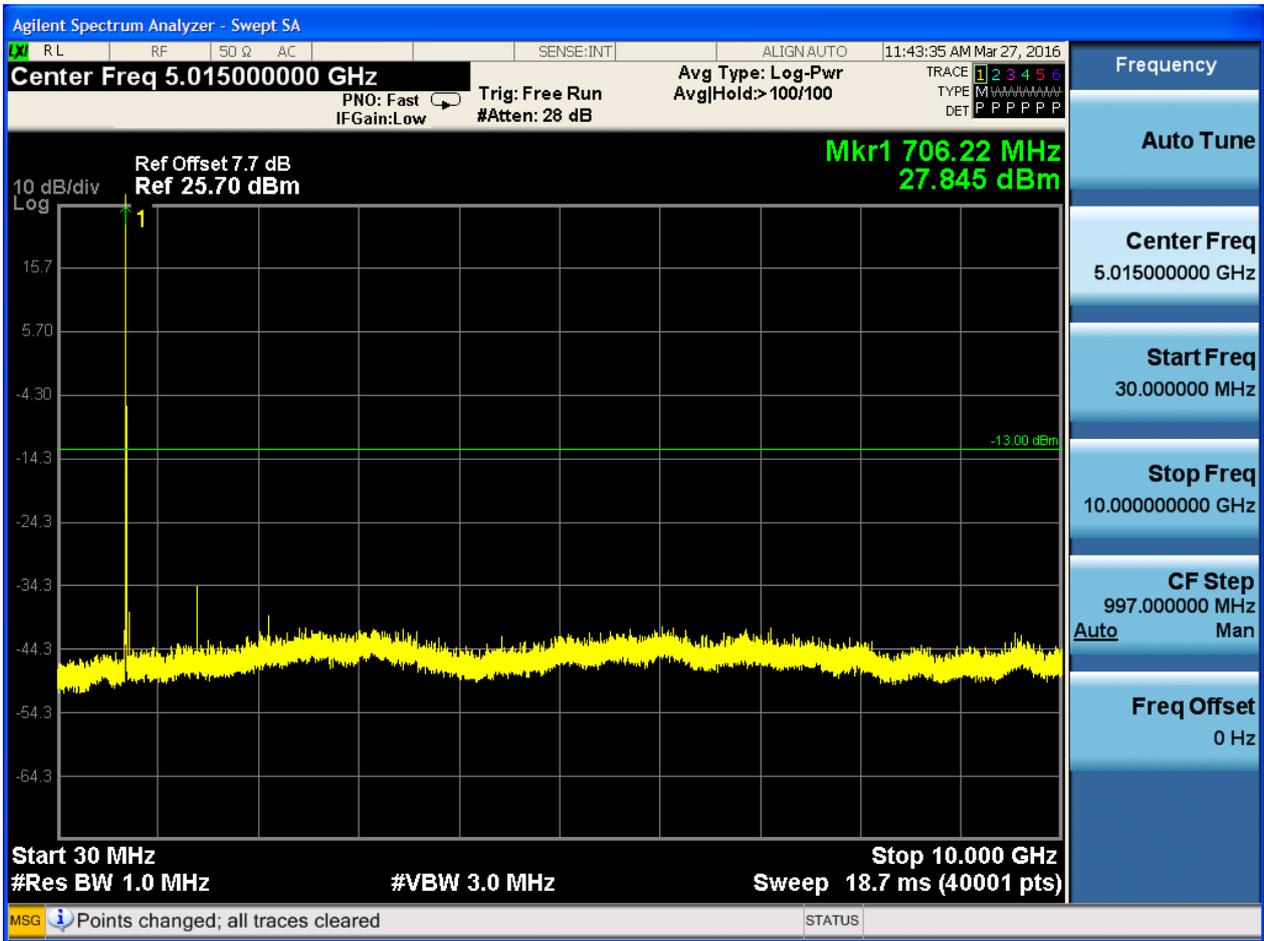


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



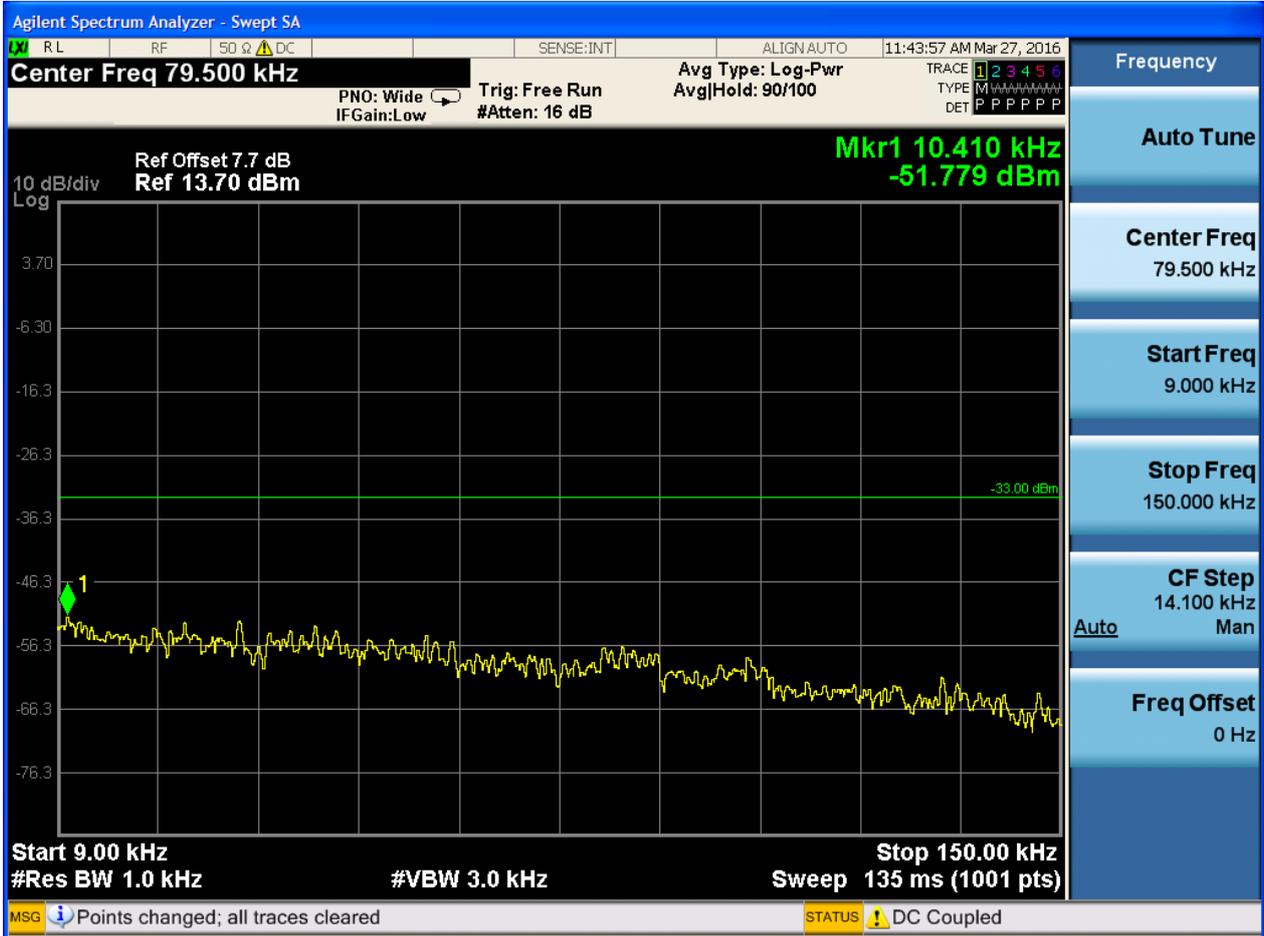


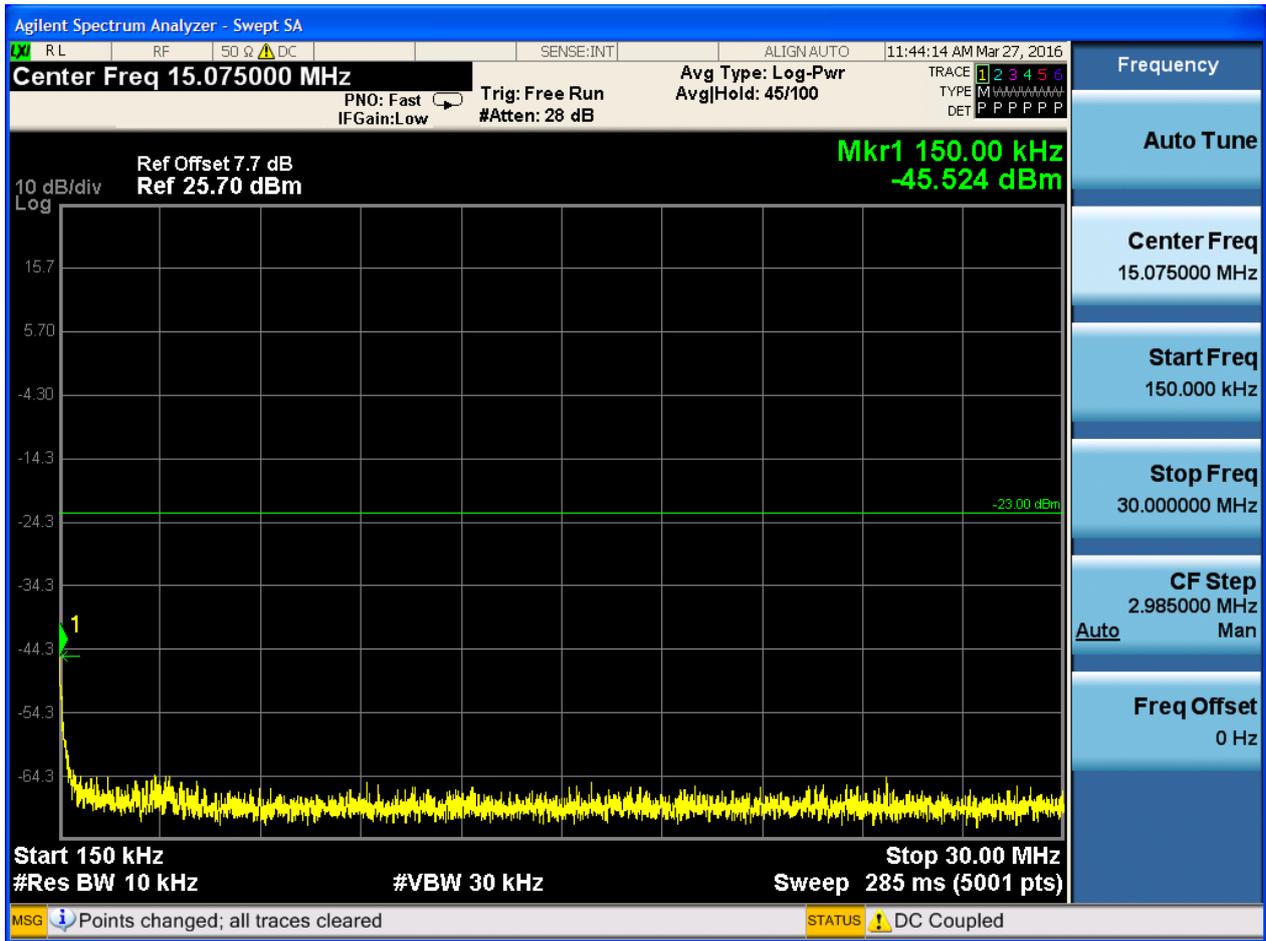


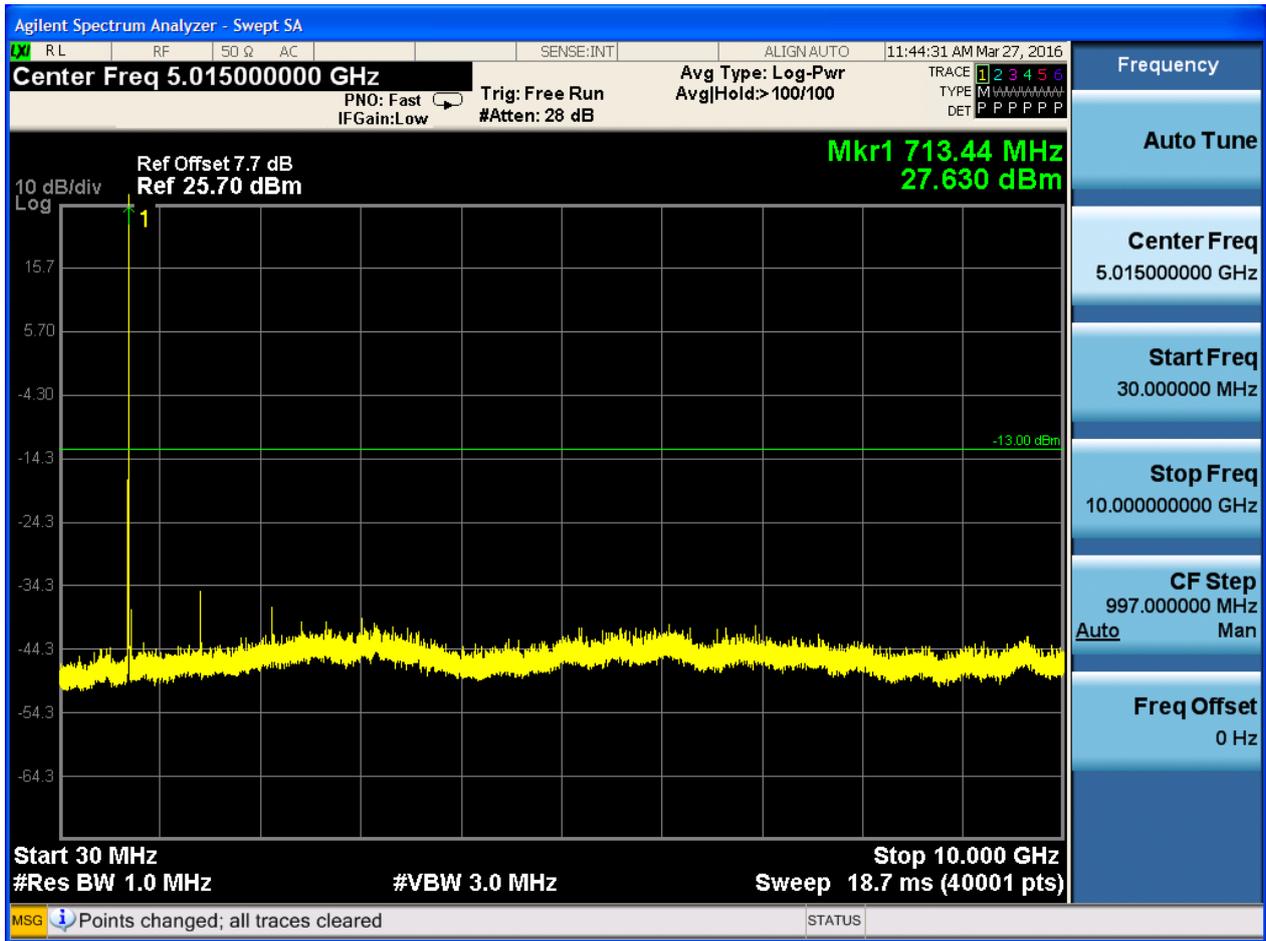


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





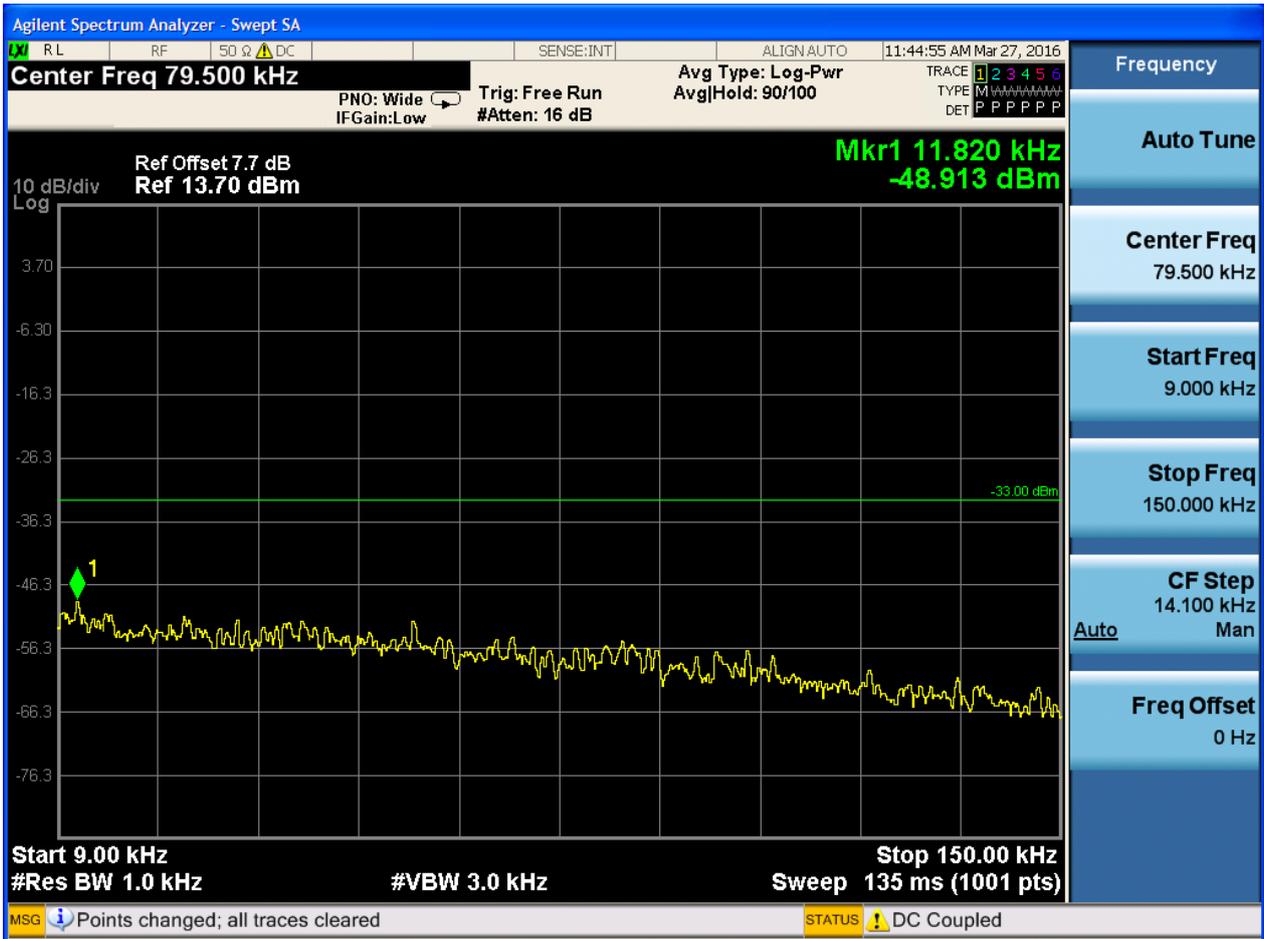


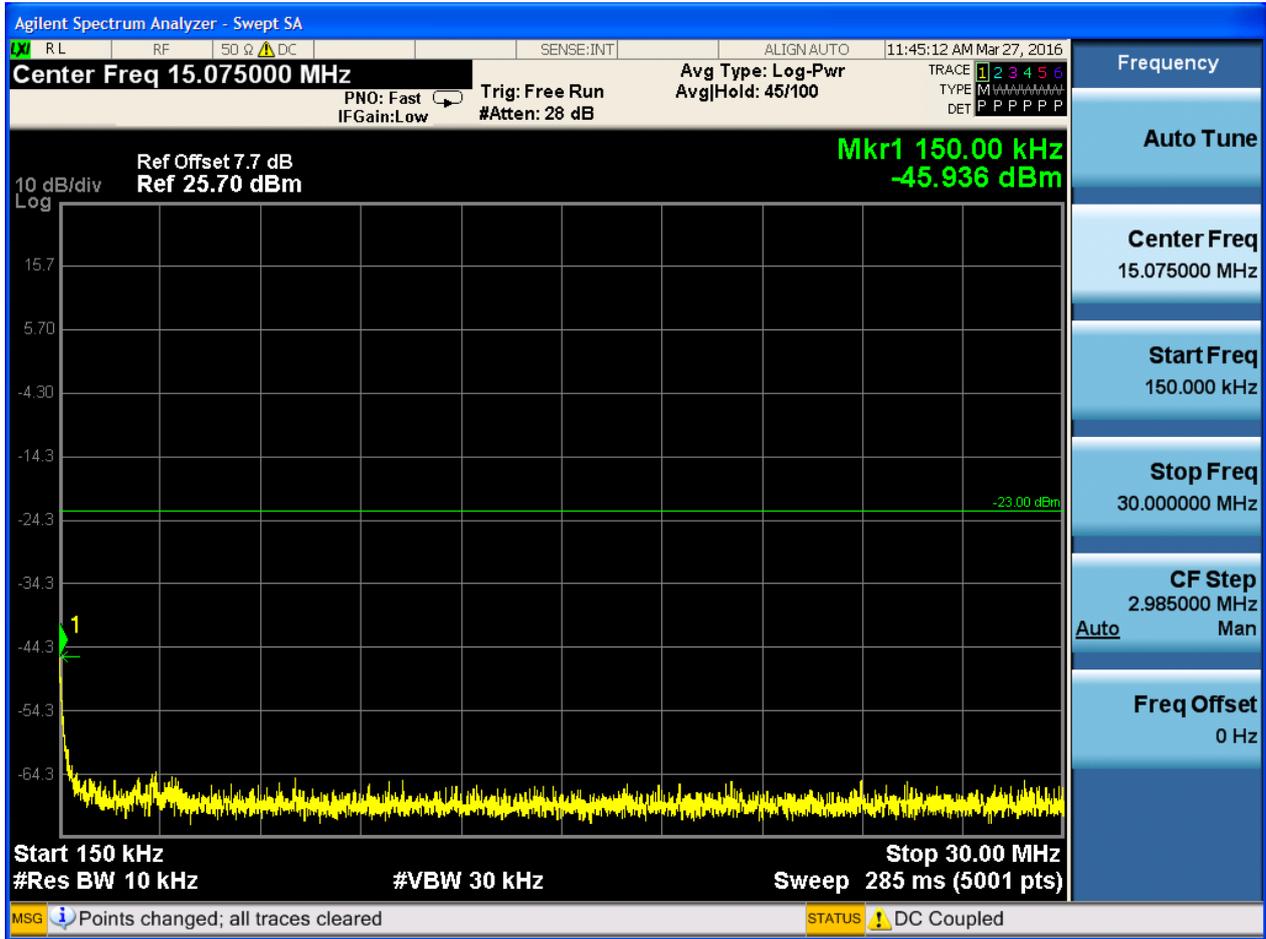


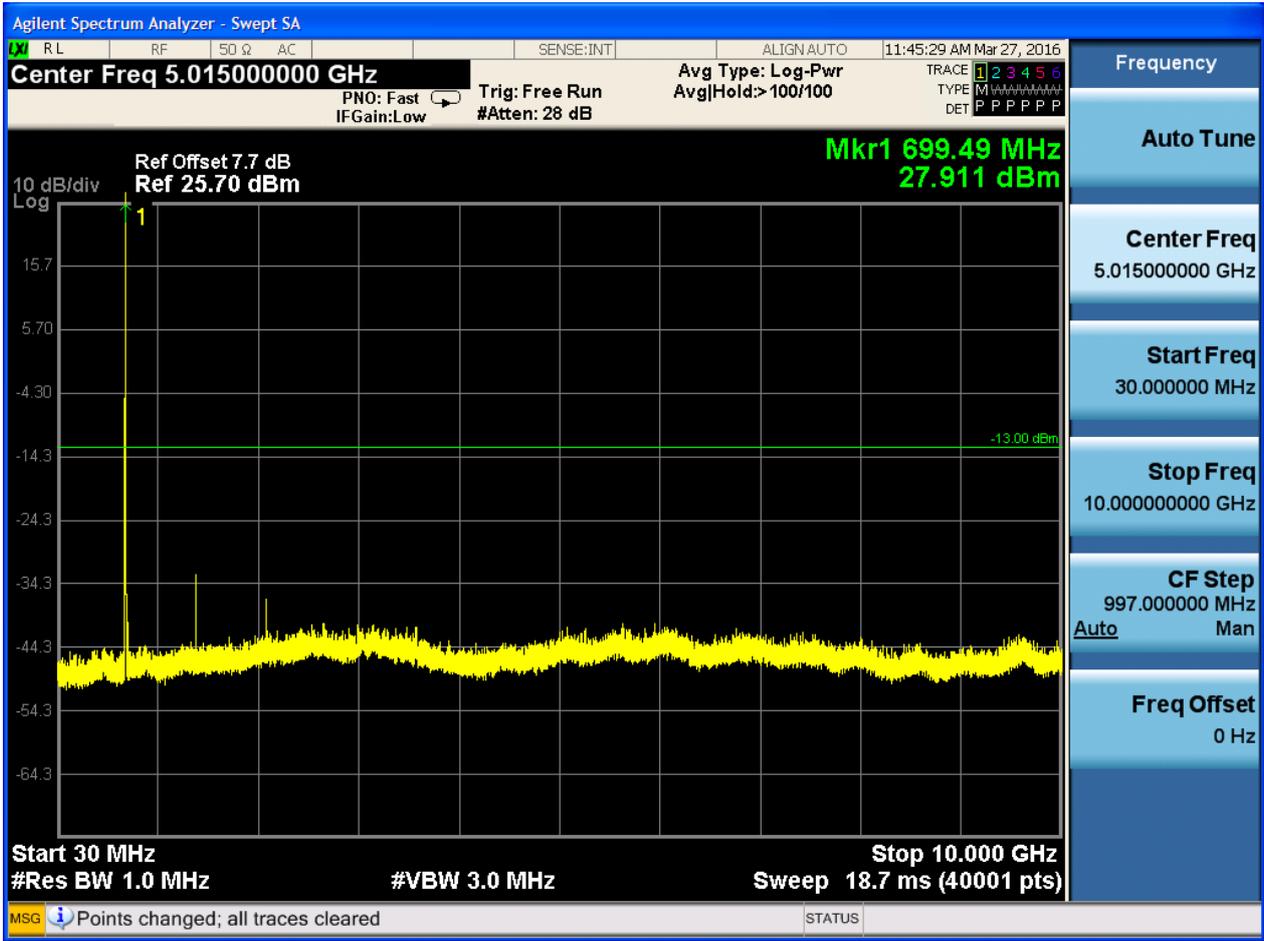
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



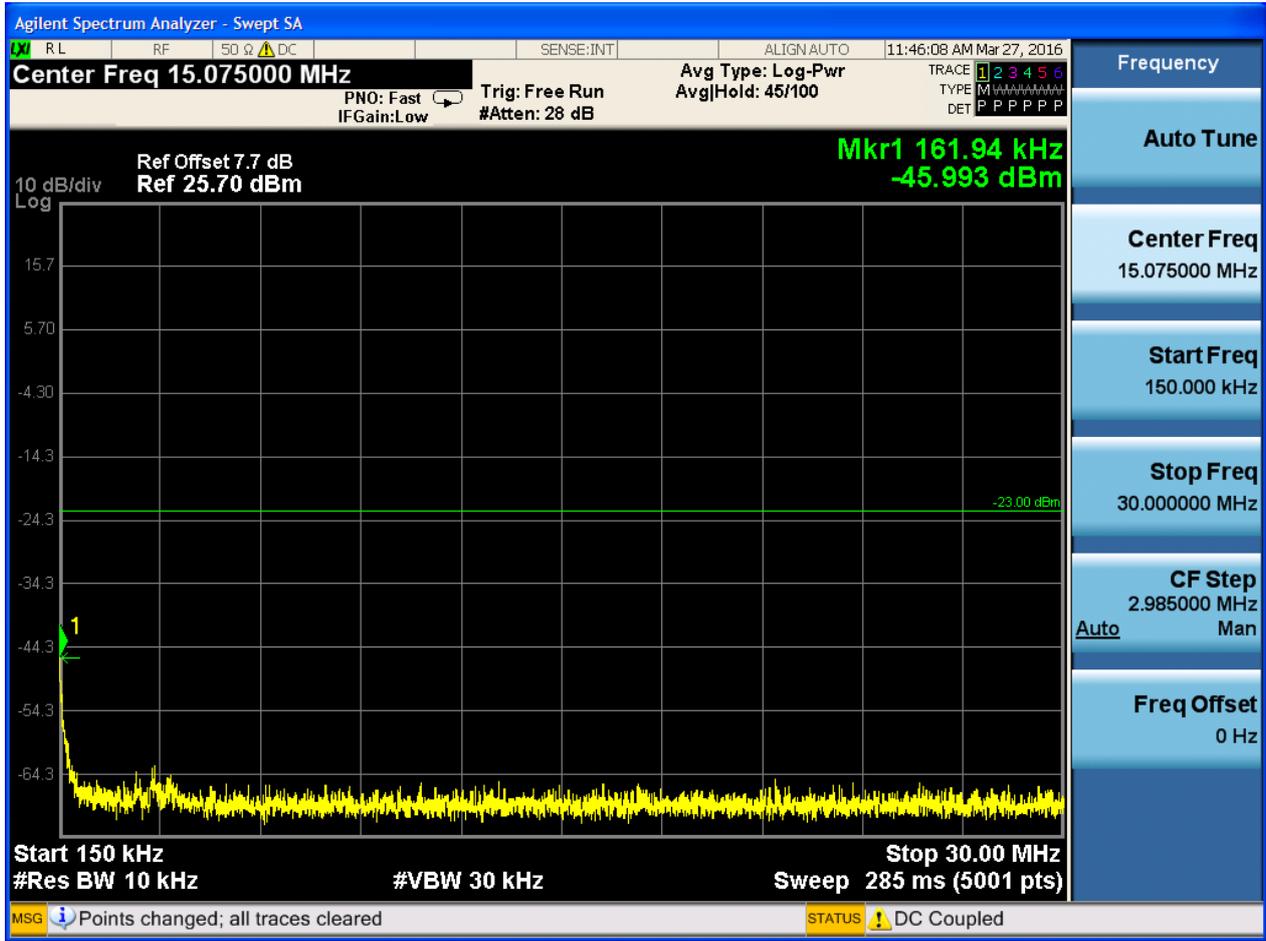


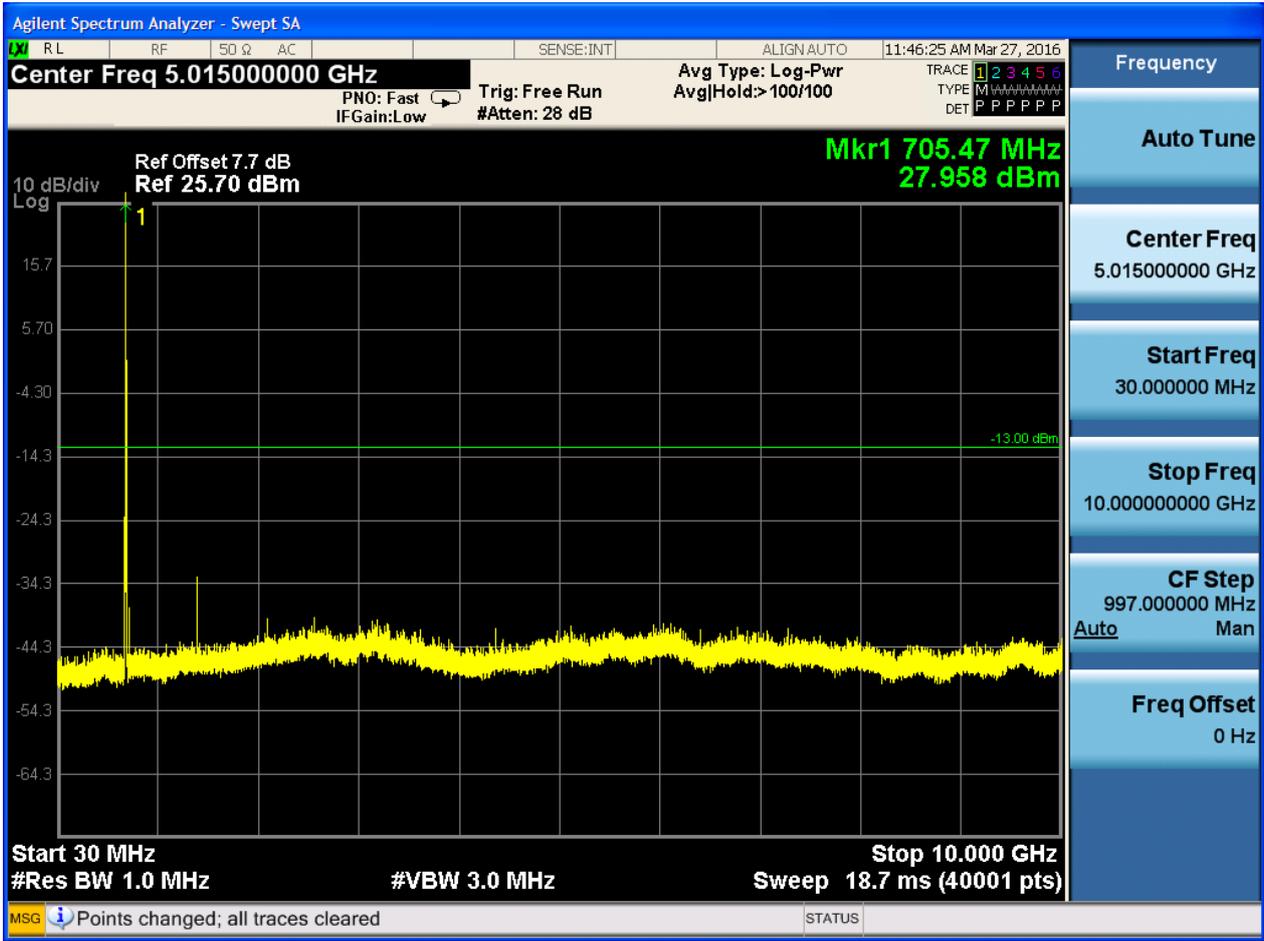


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



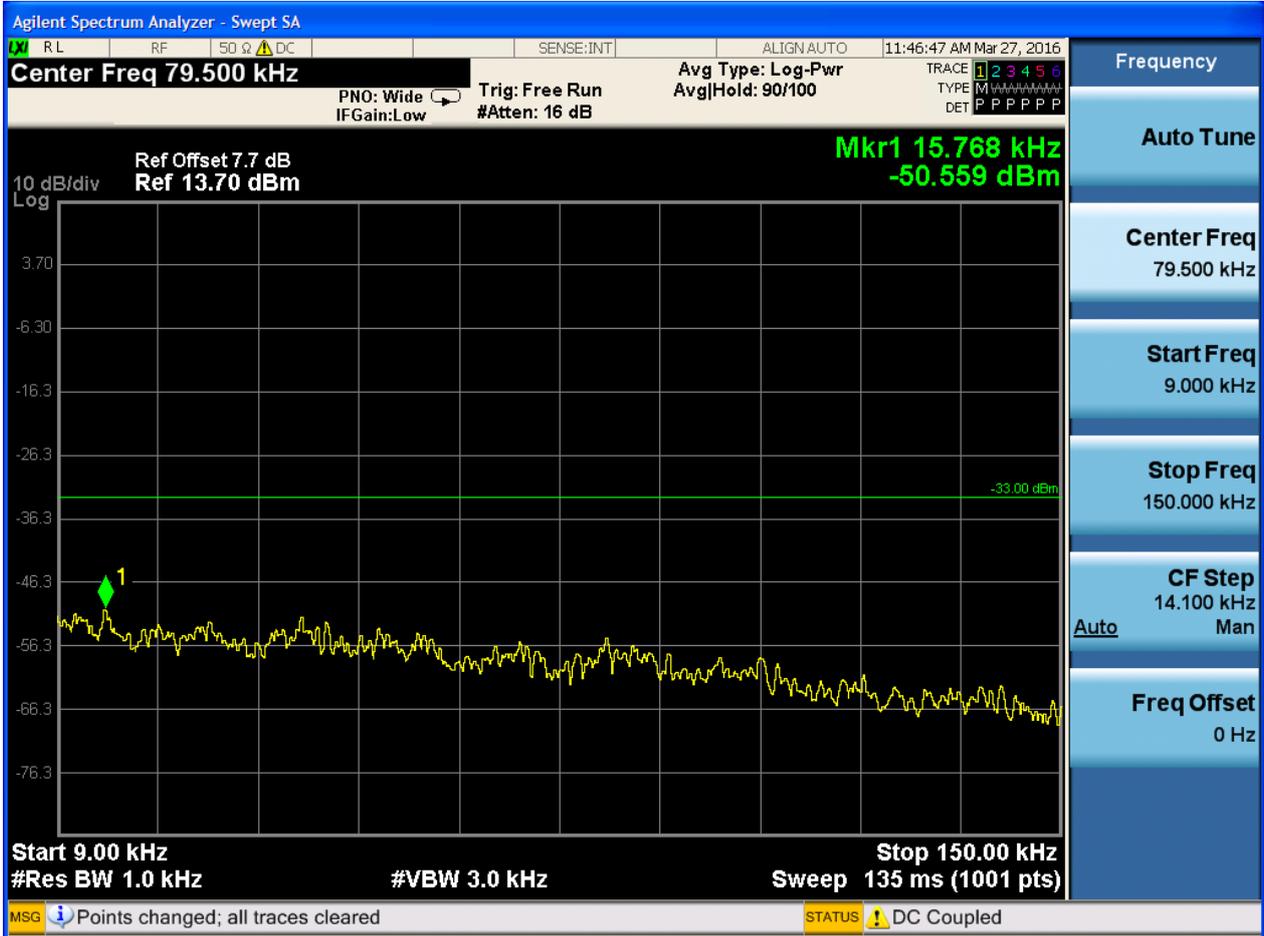




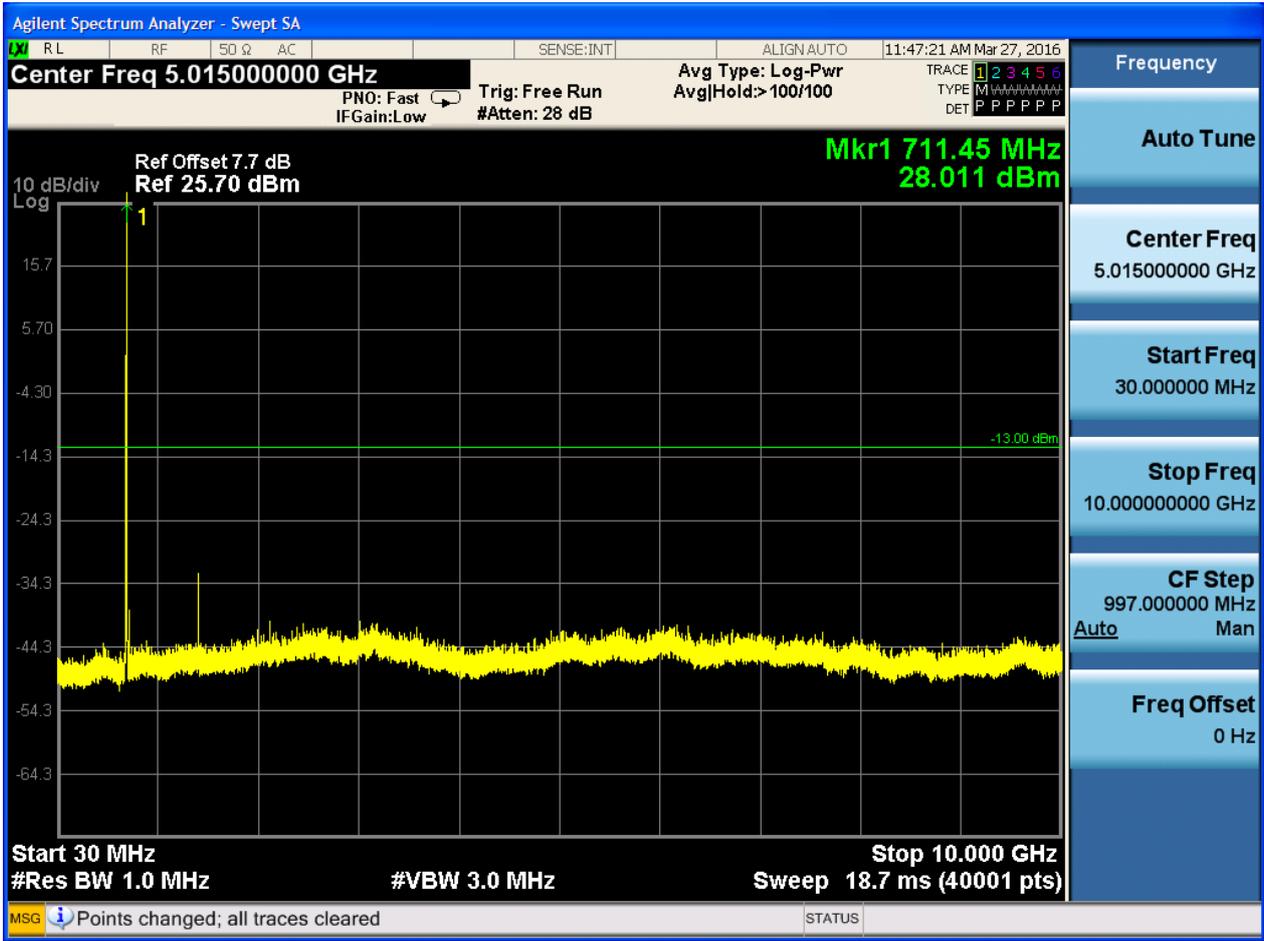


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







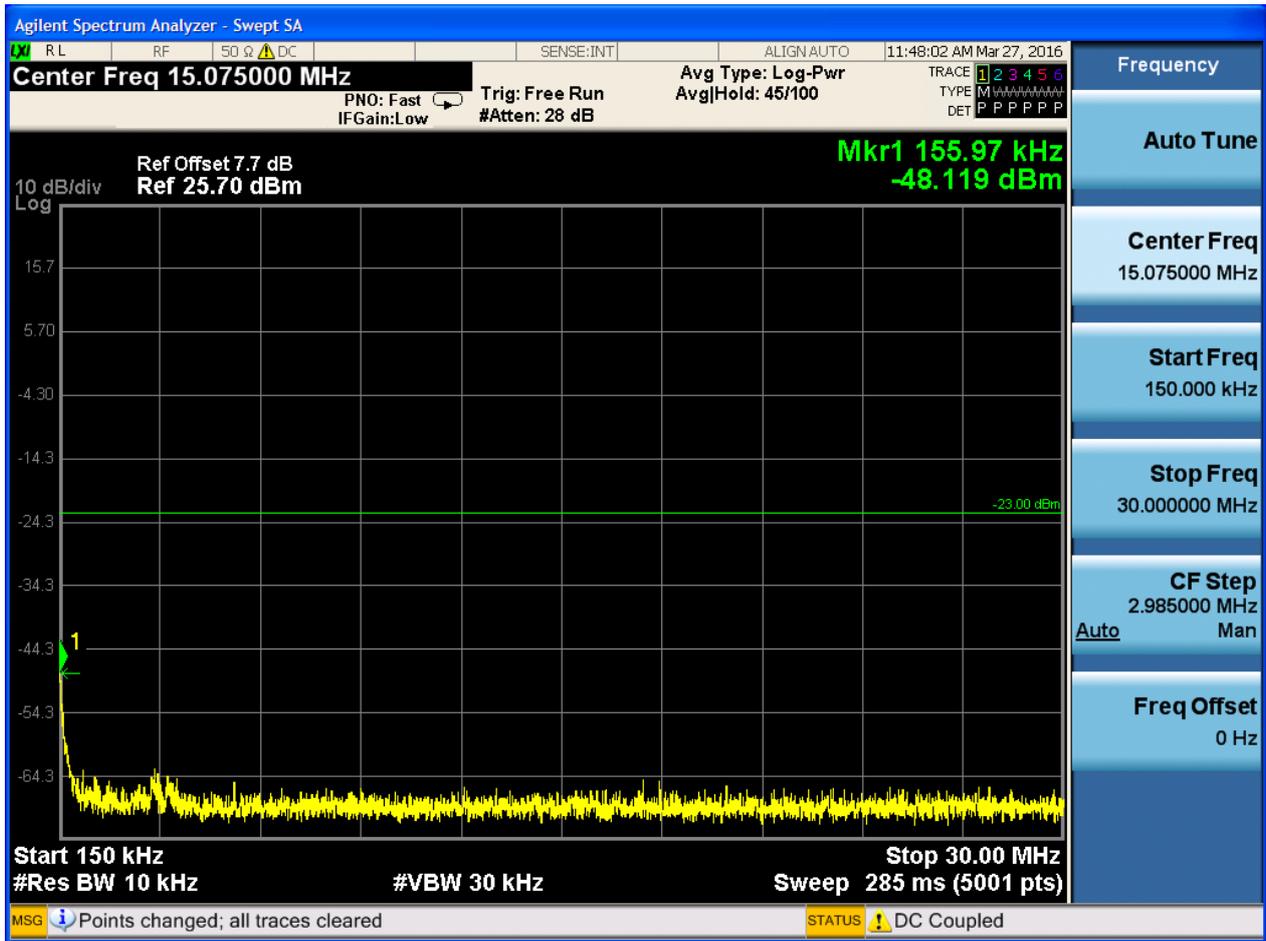


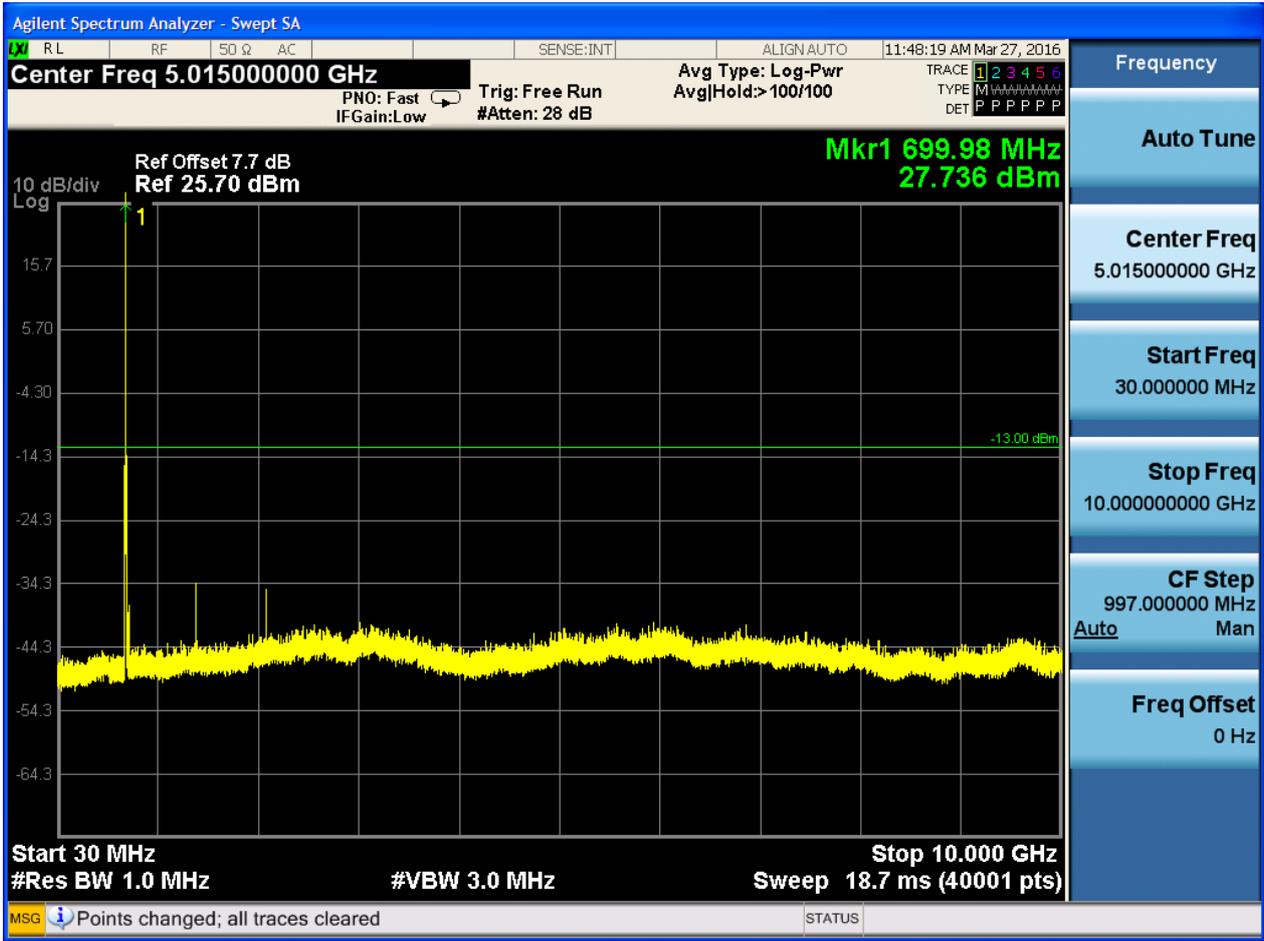
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





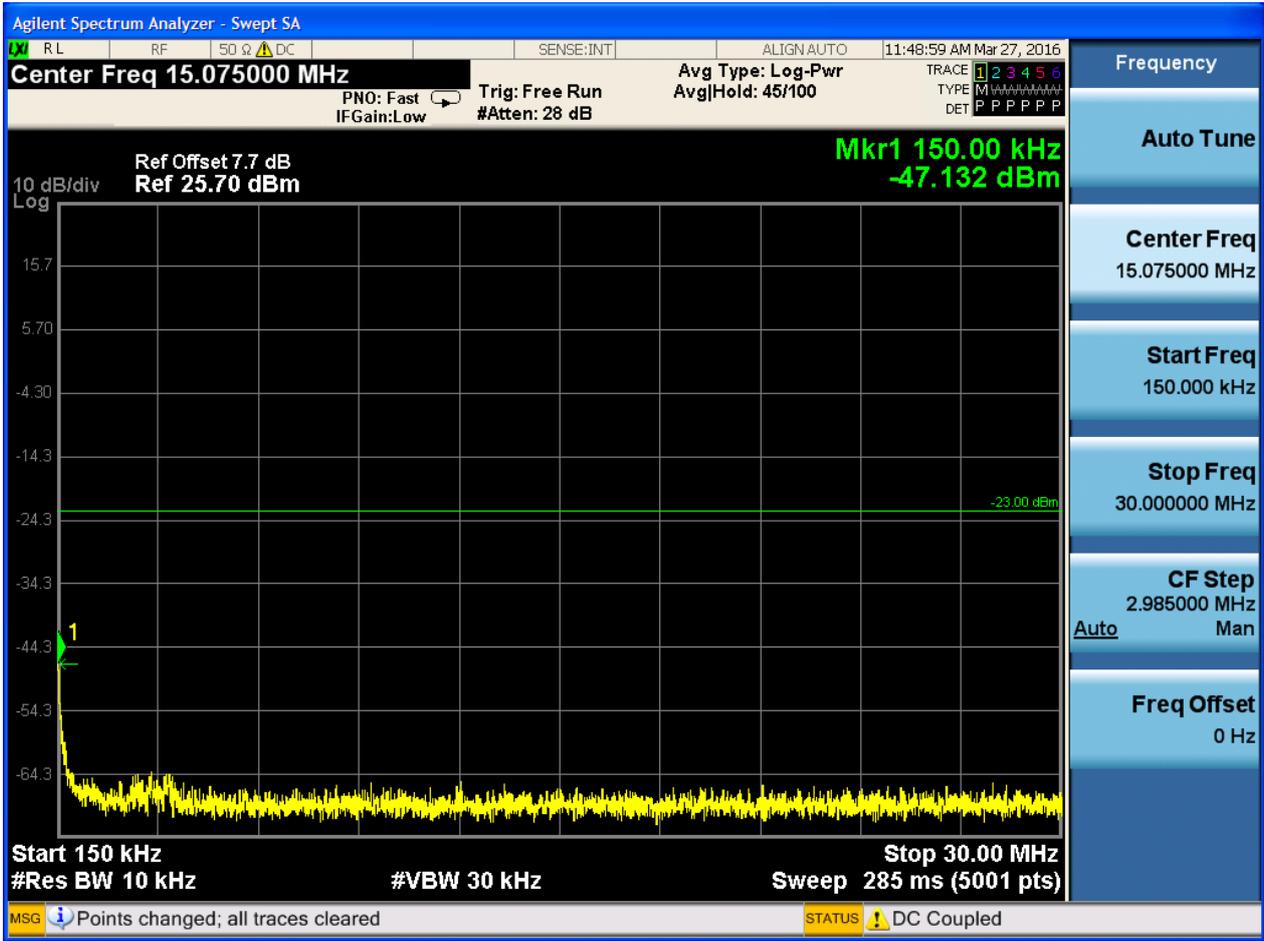


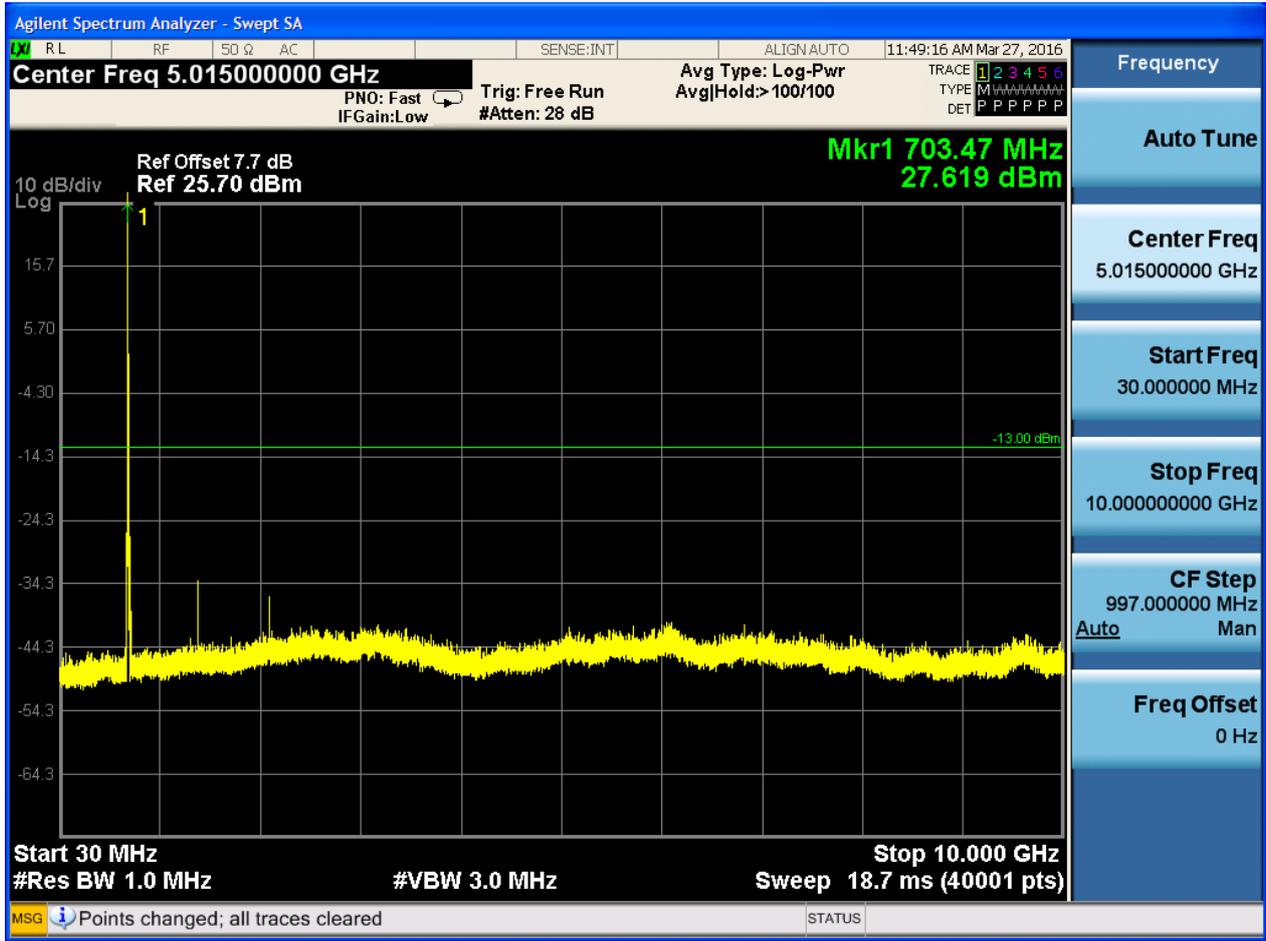


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



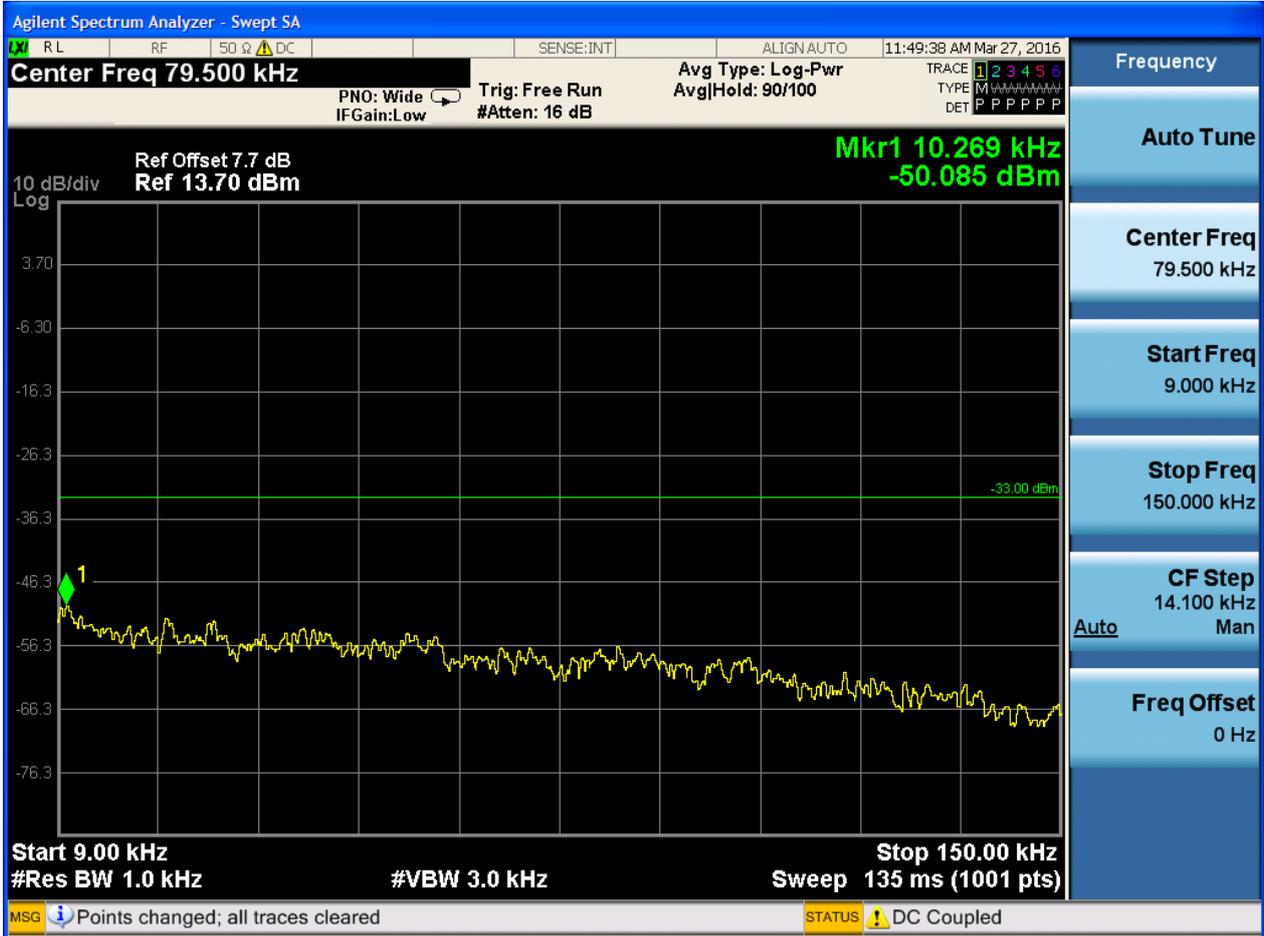


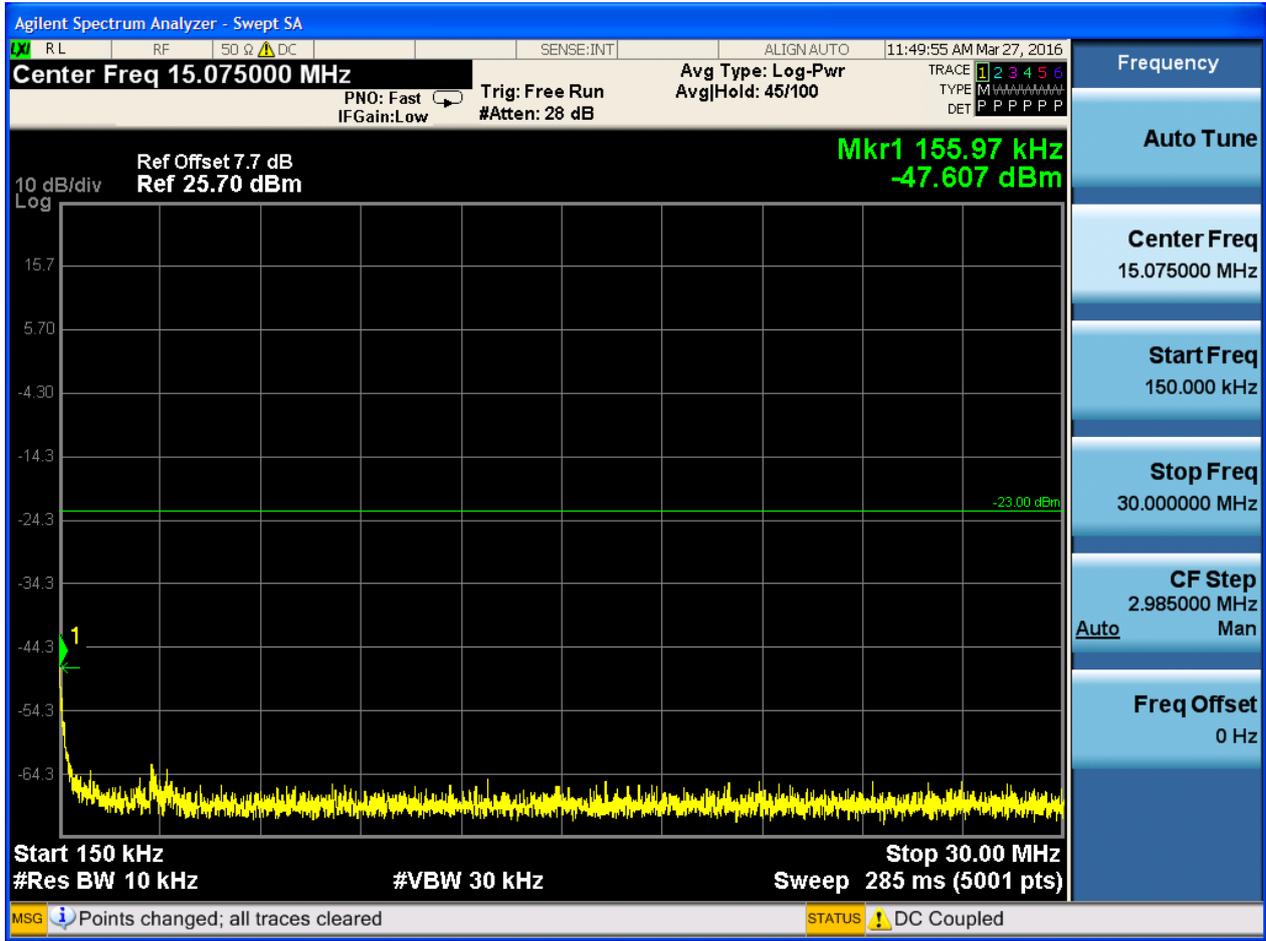


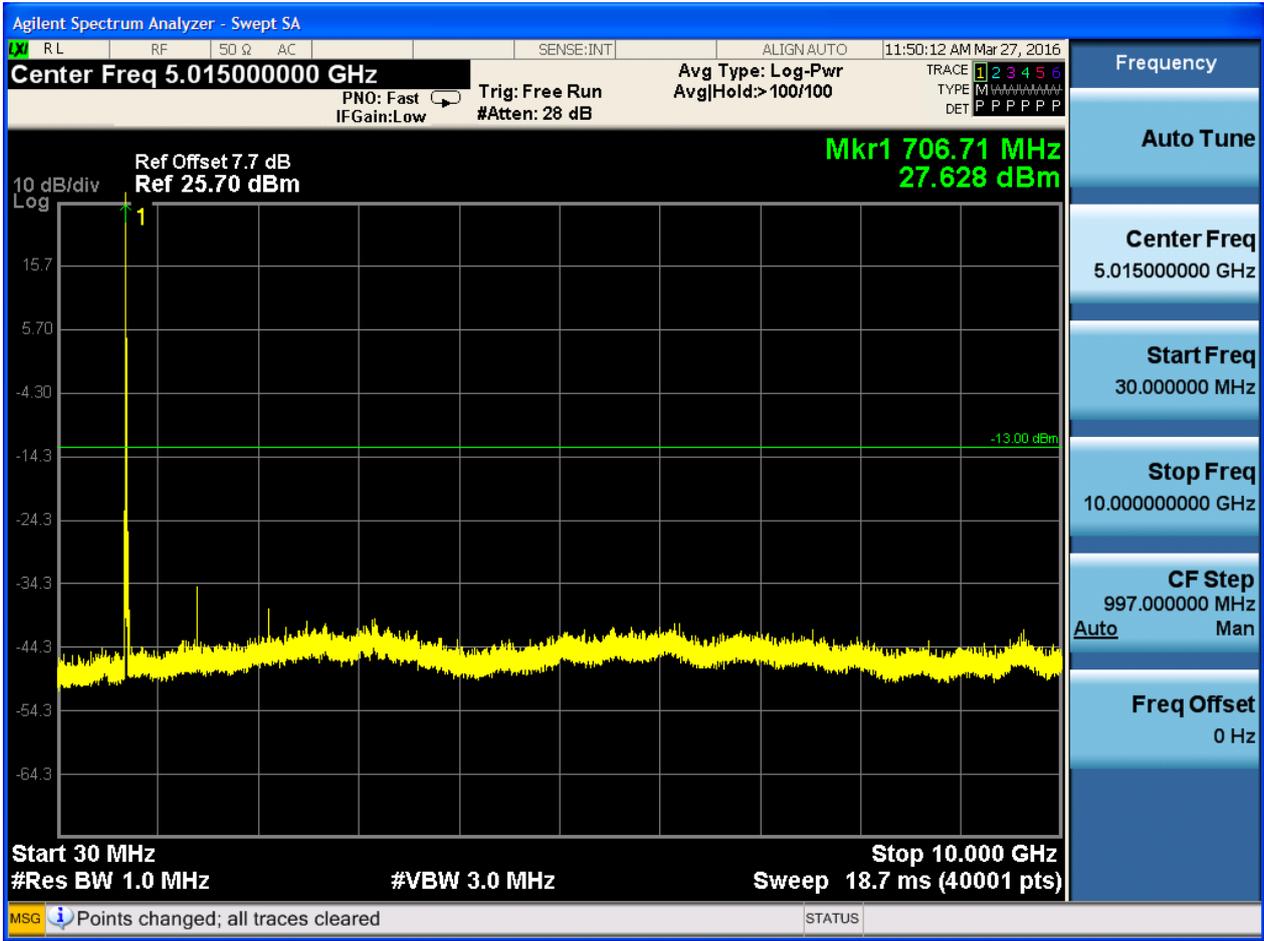


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









6.1.1.2 Test Mode = LTE/TM2

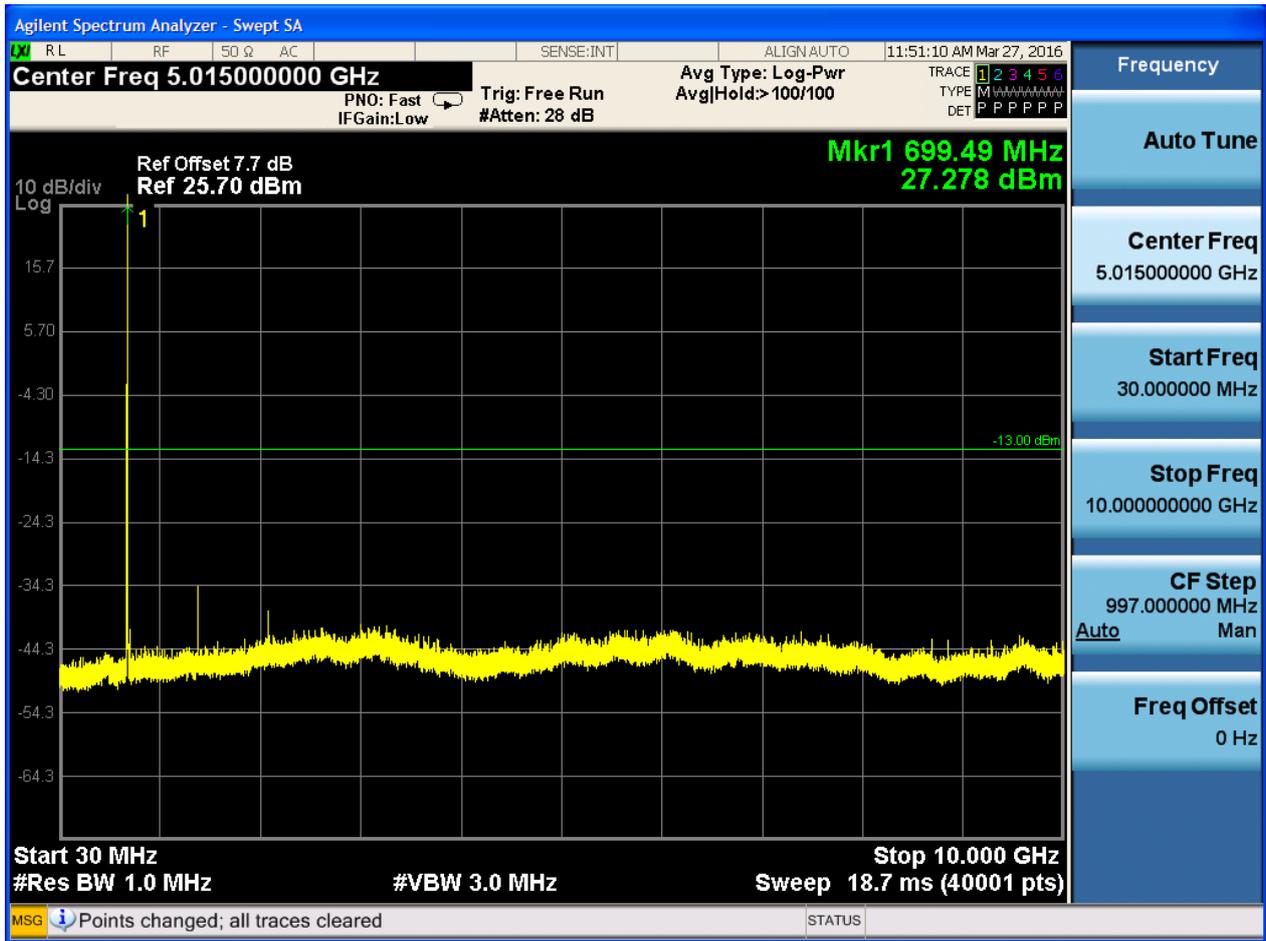
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



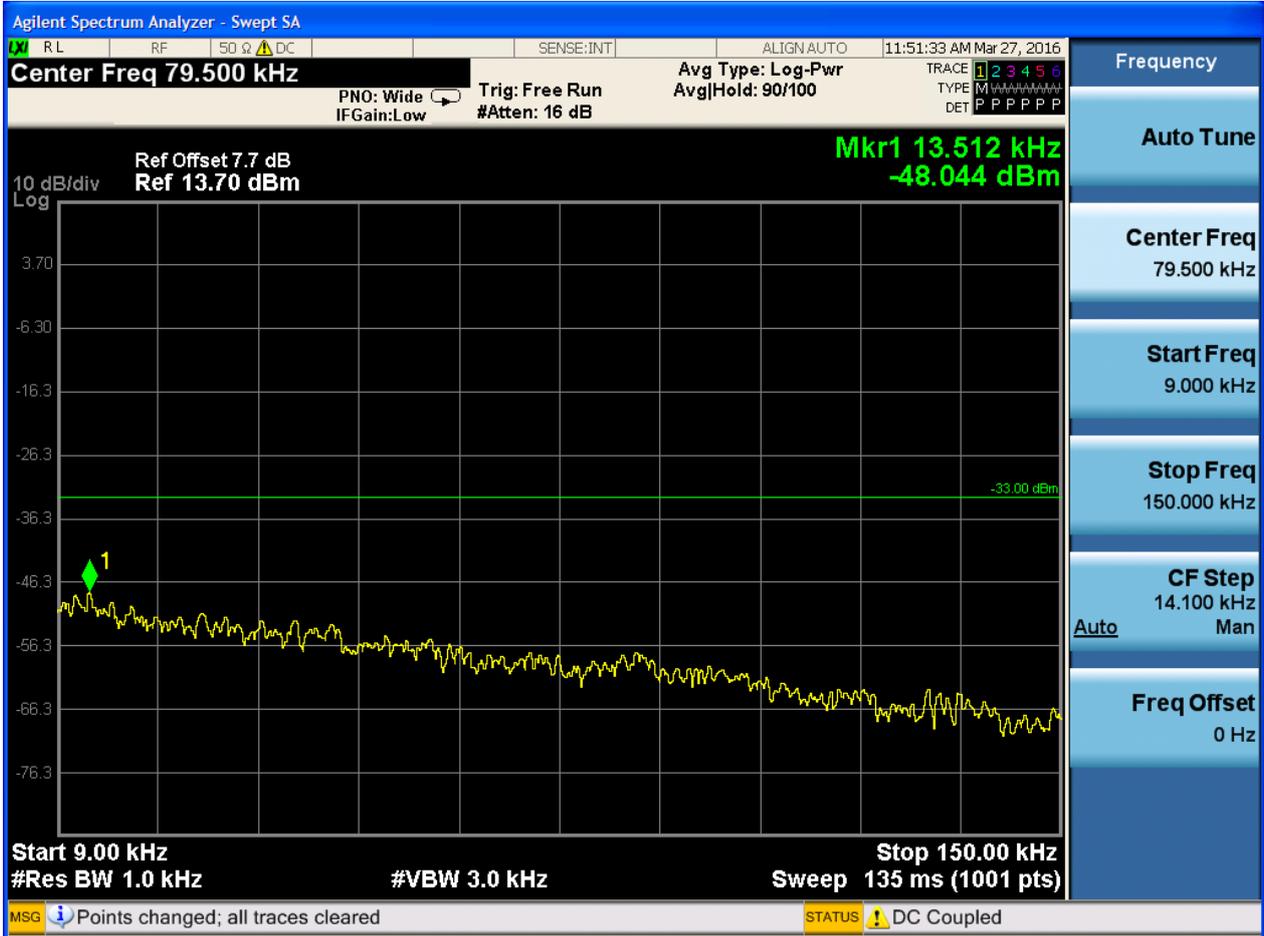


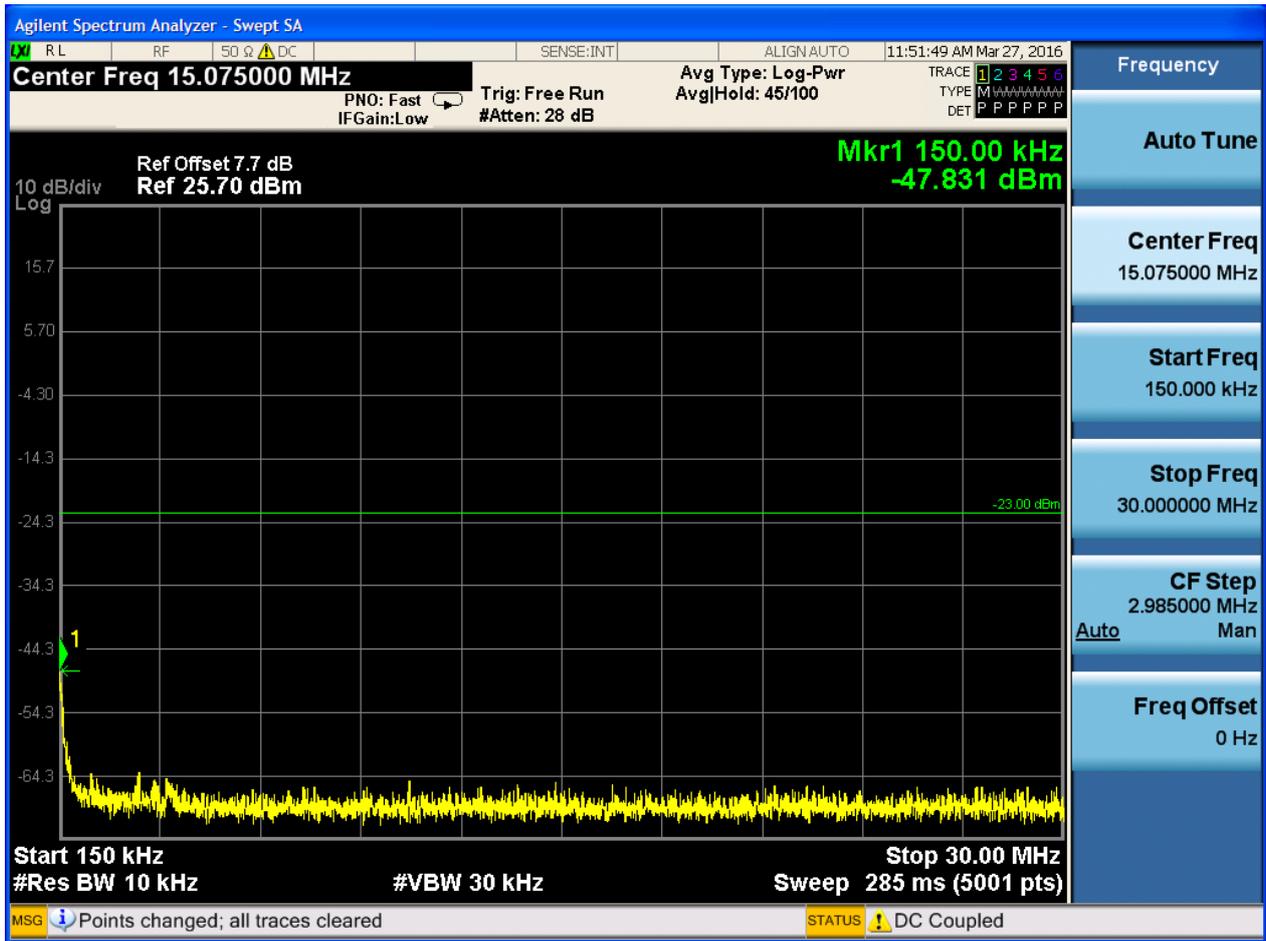


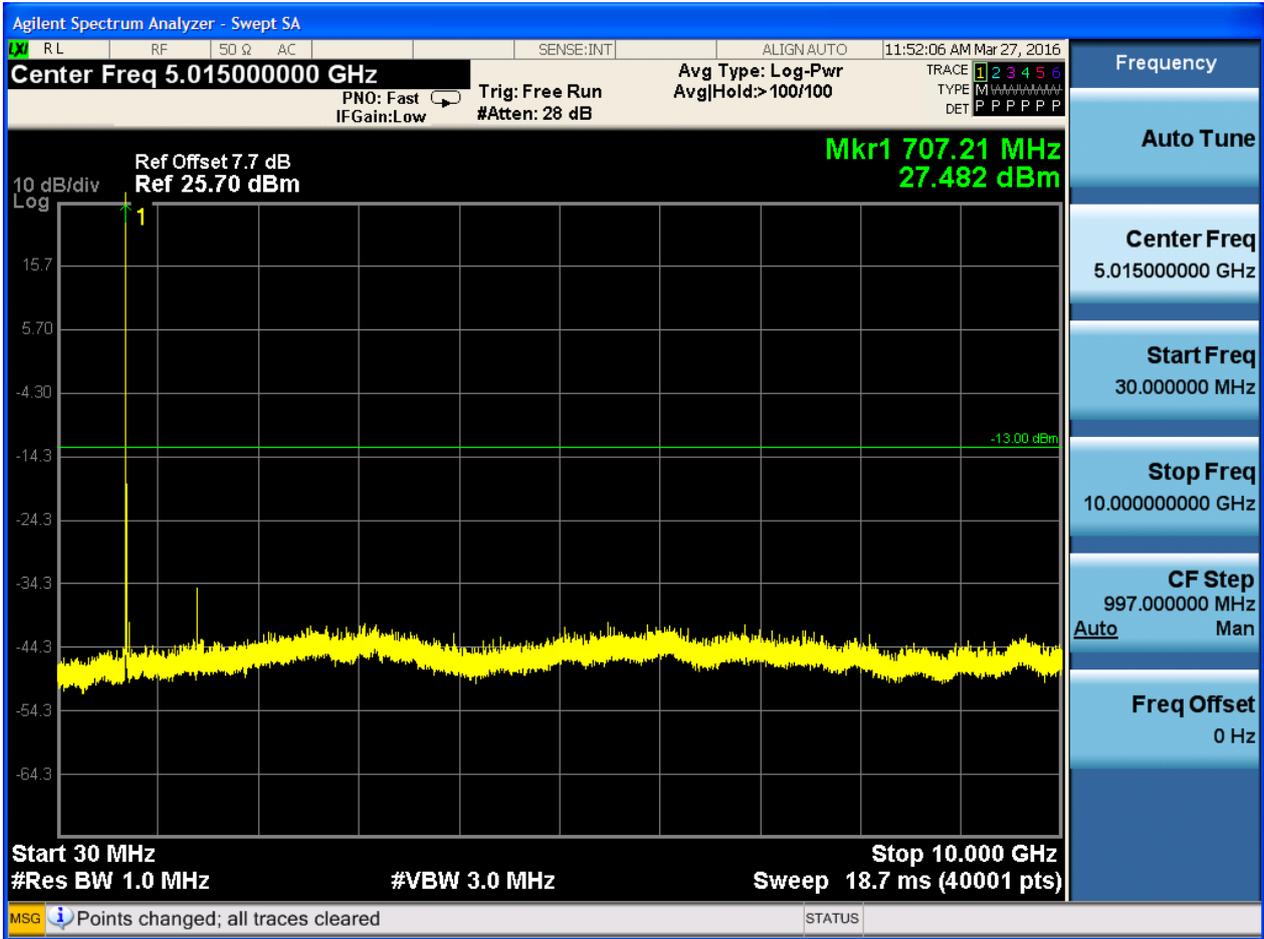


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



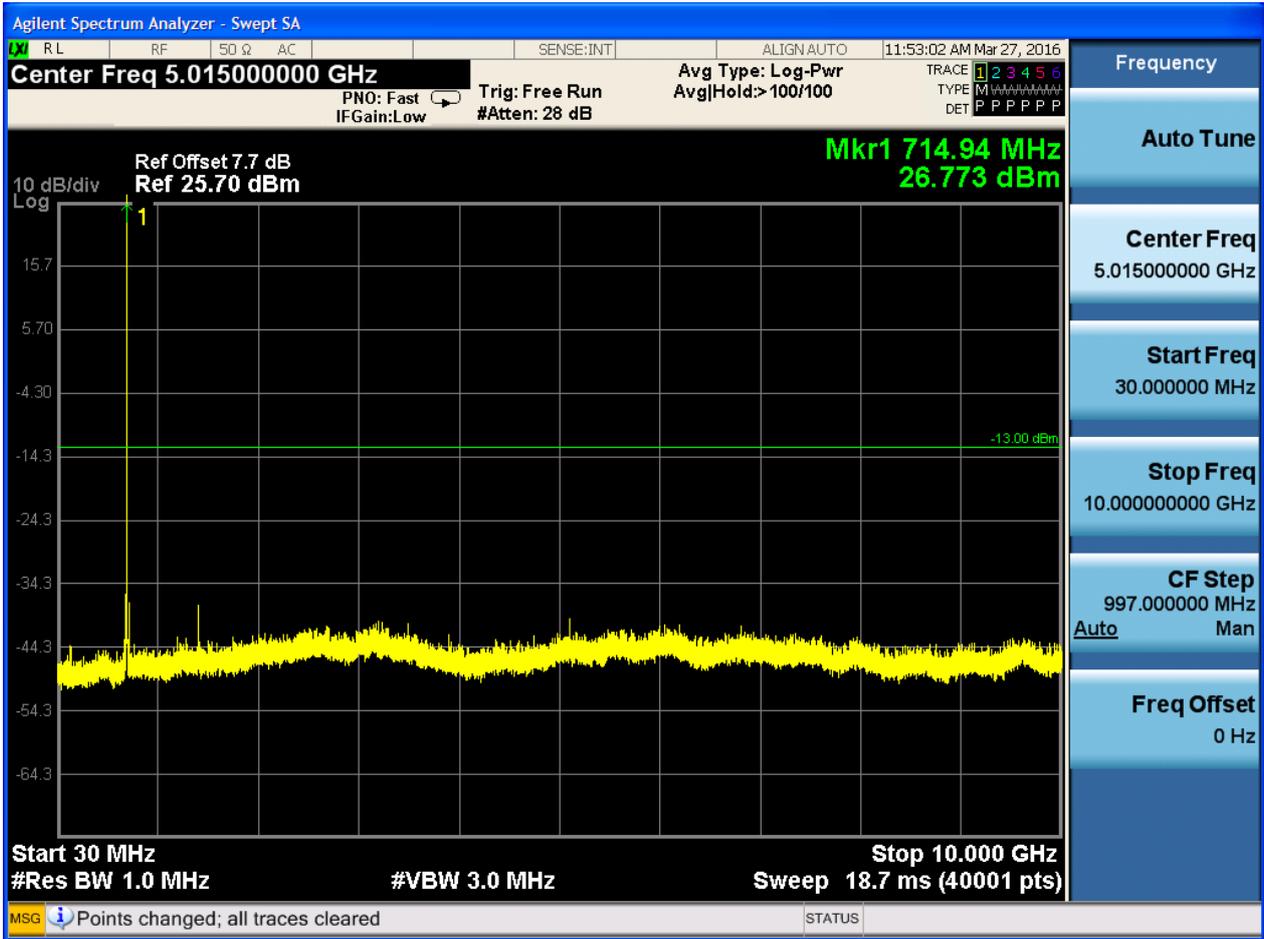




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



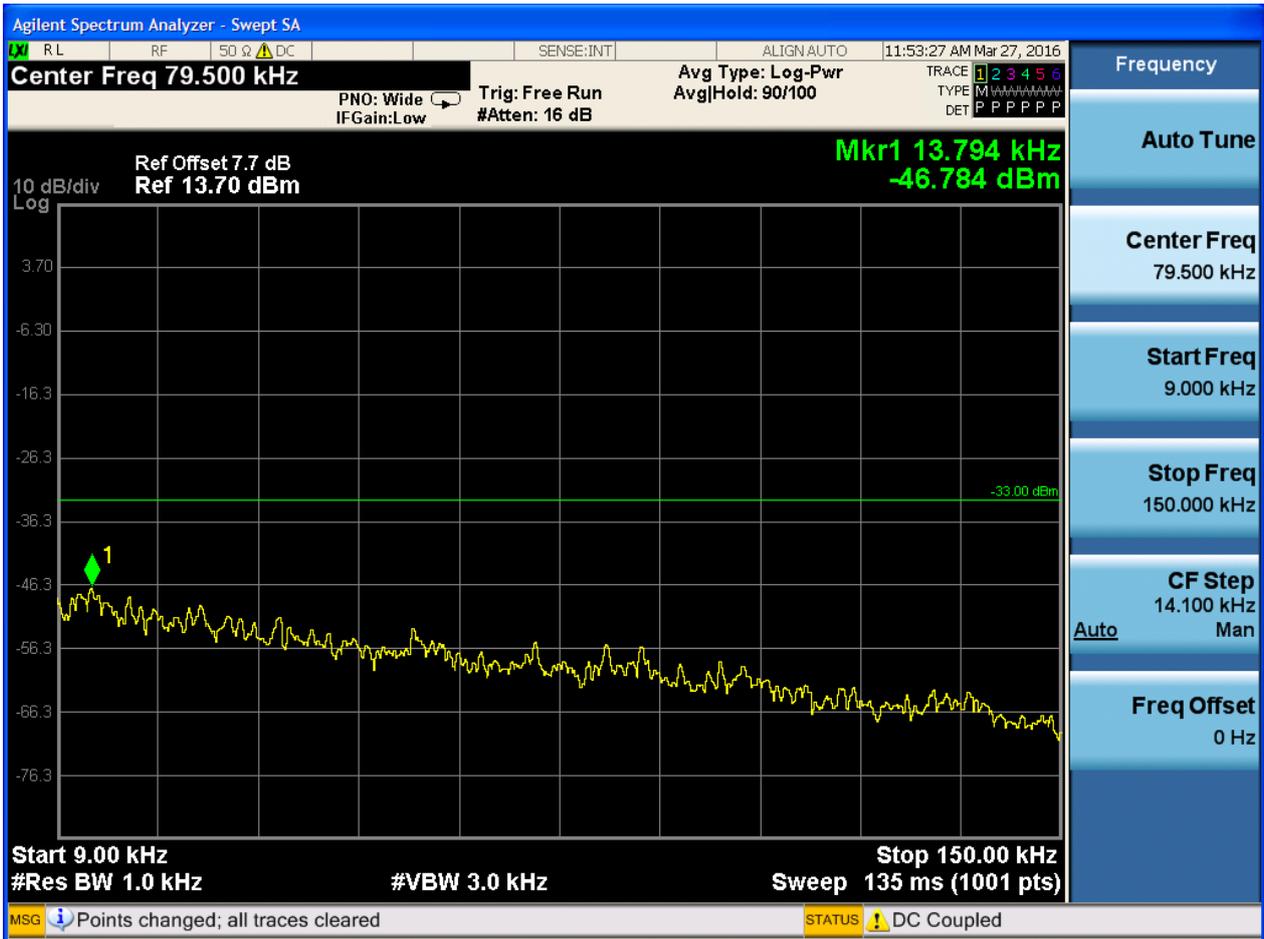


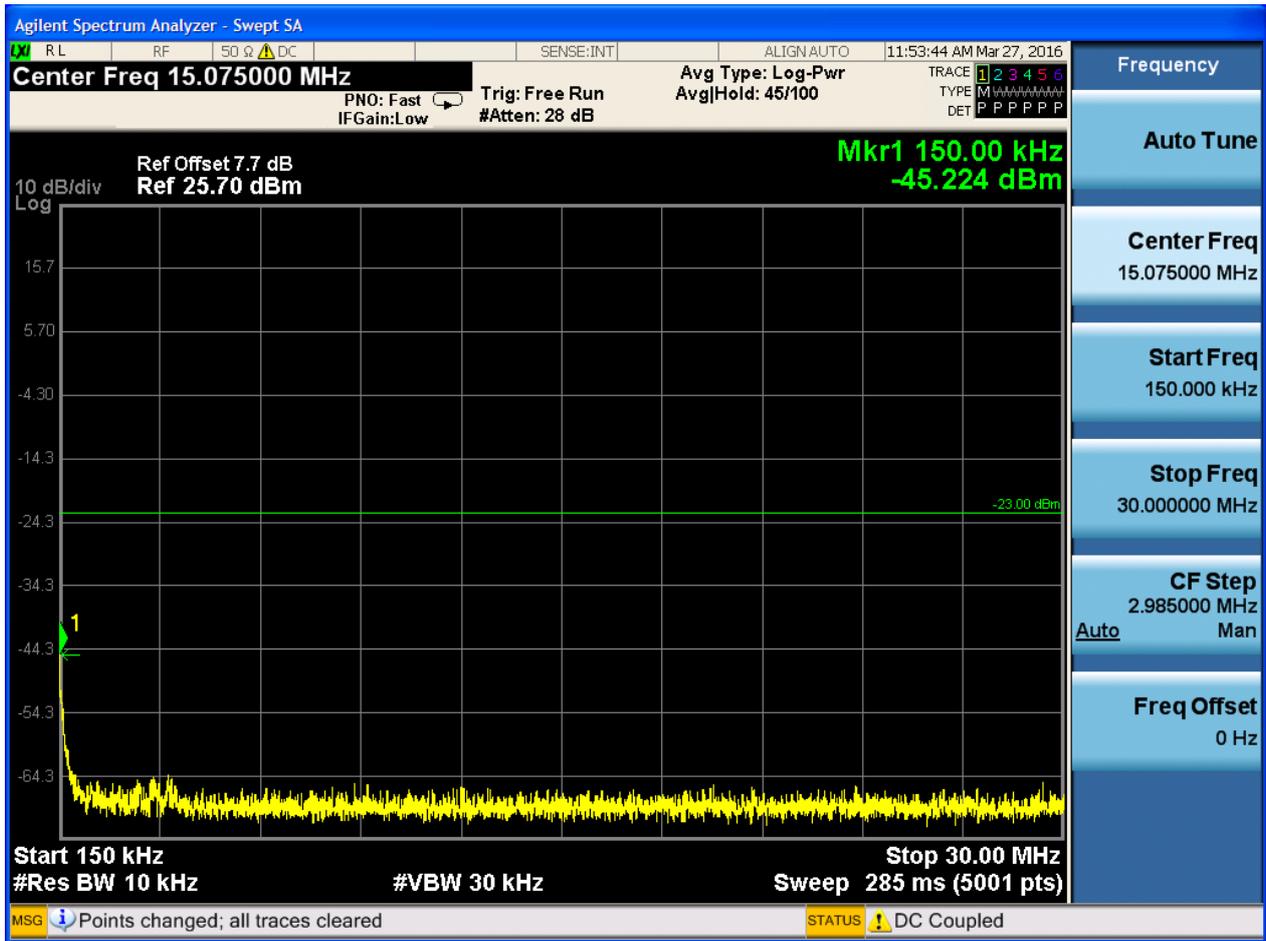


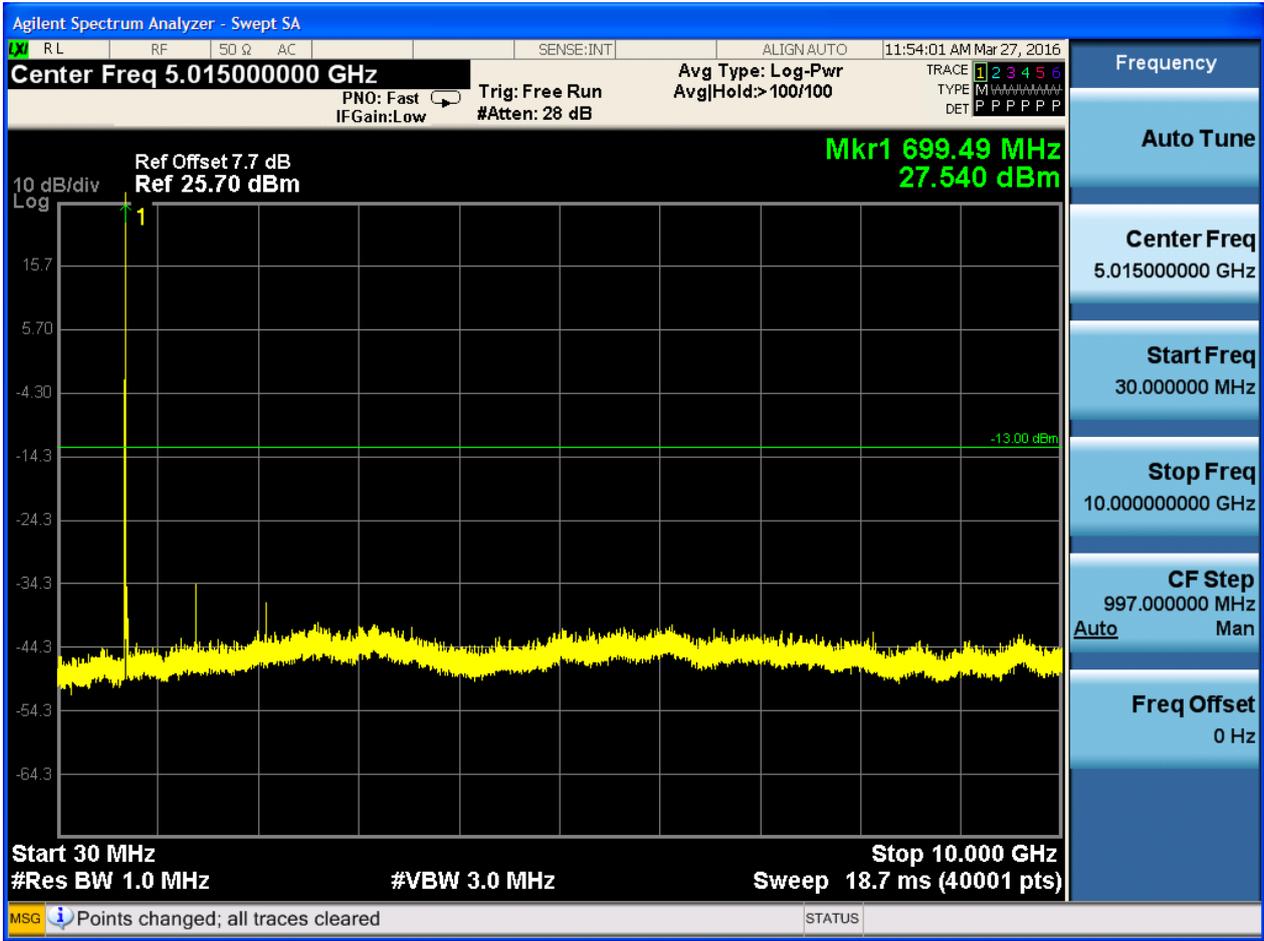
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





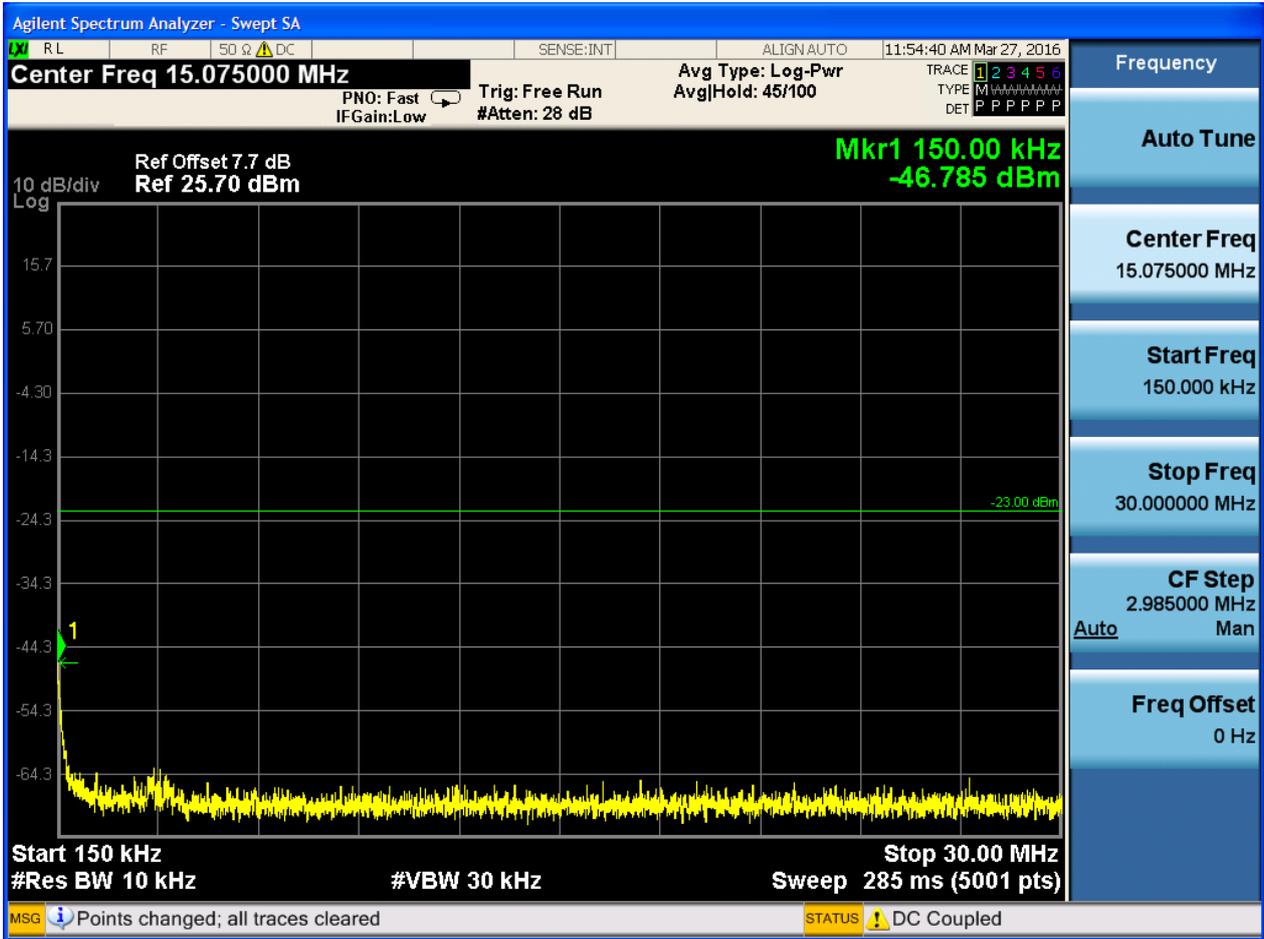


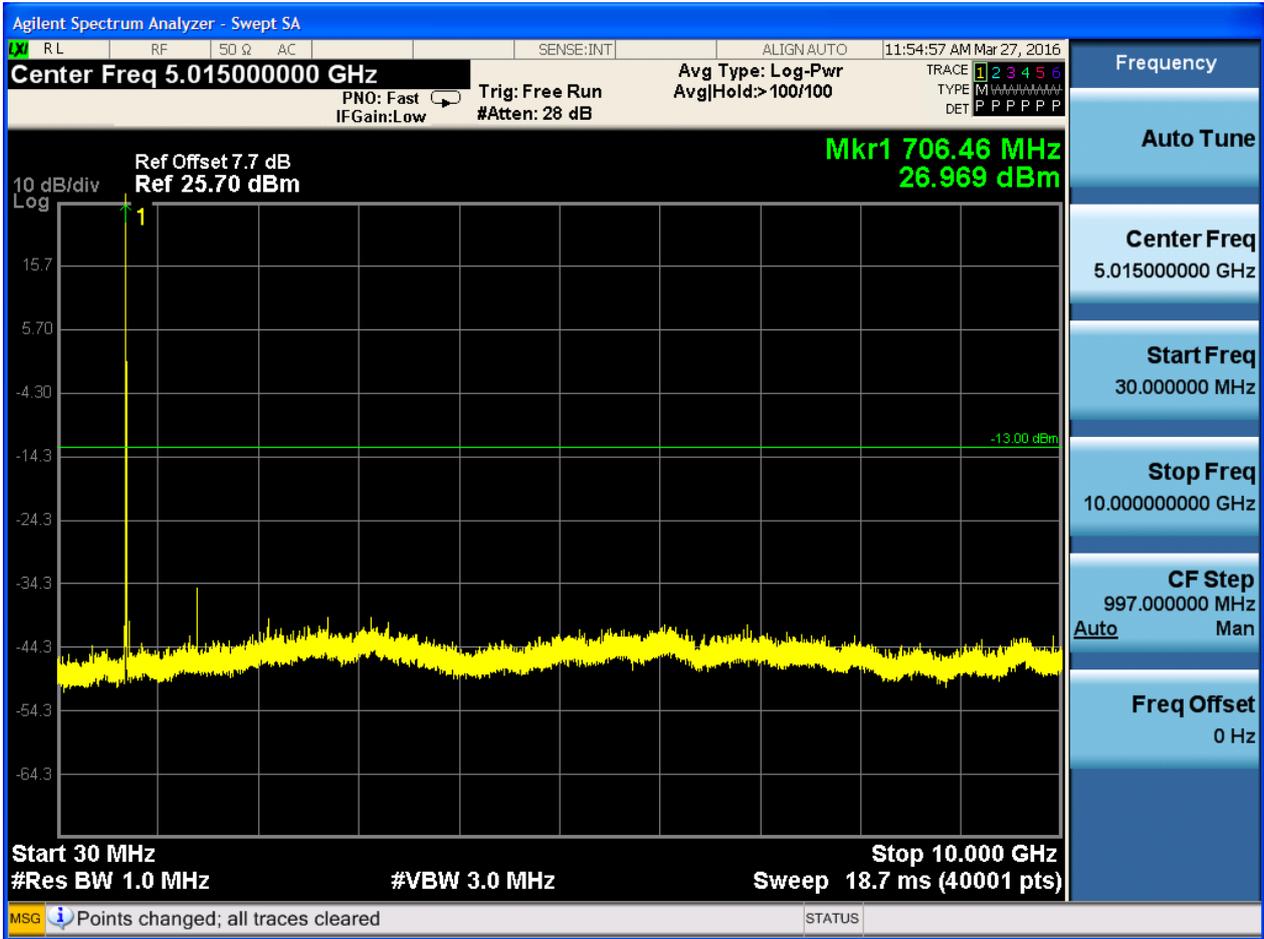


6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0





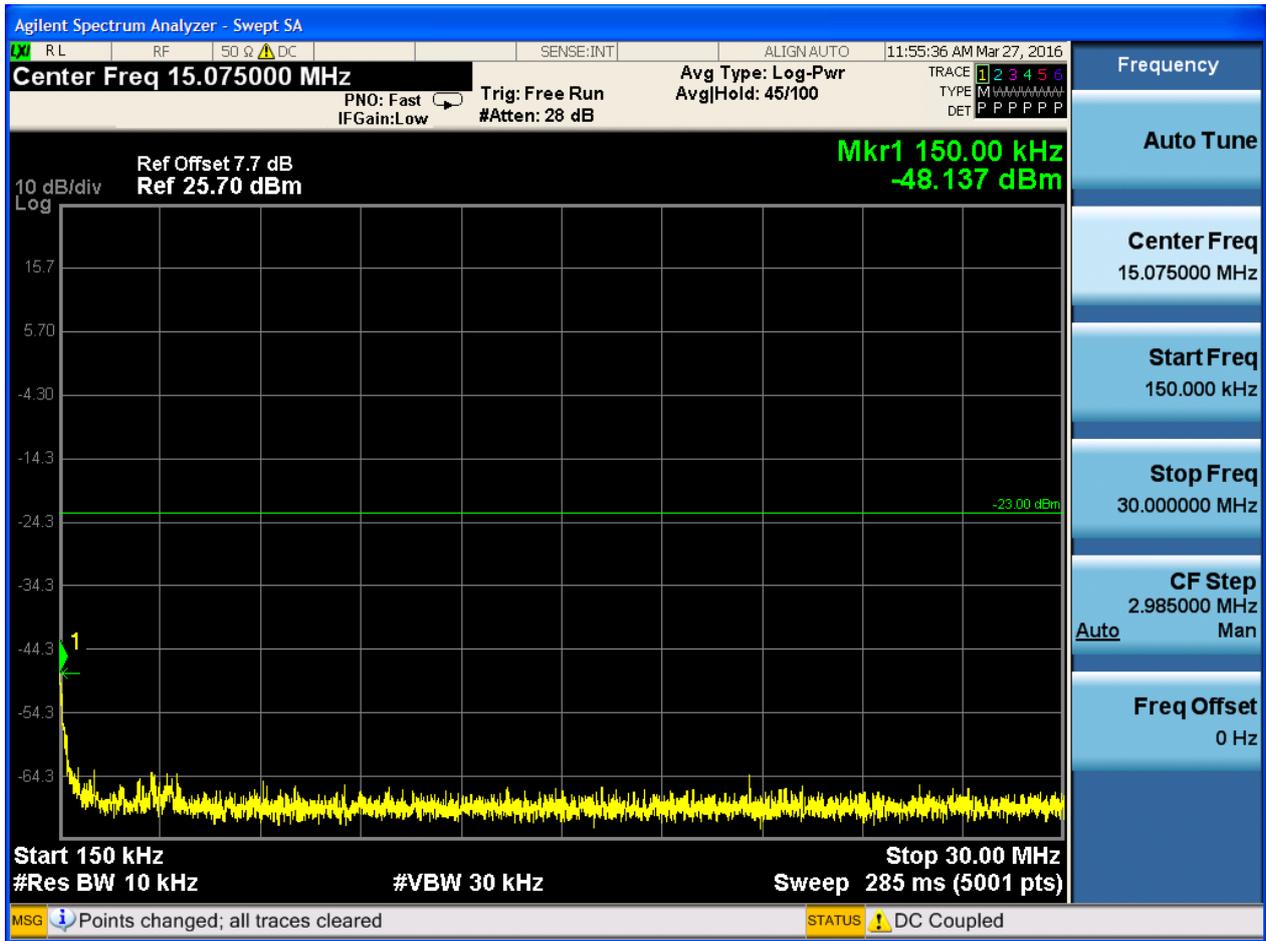


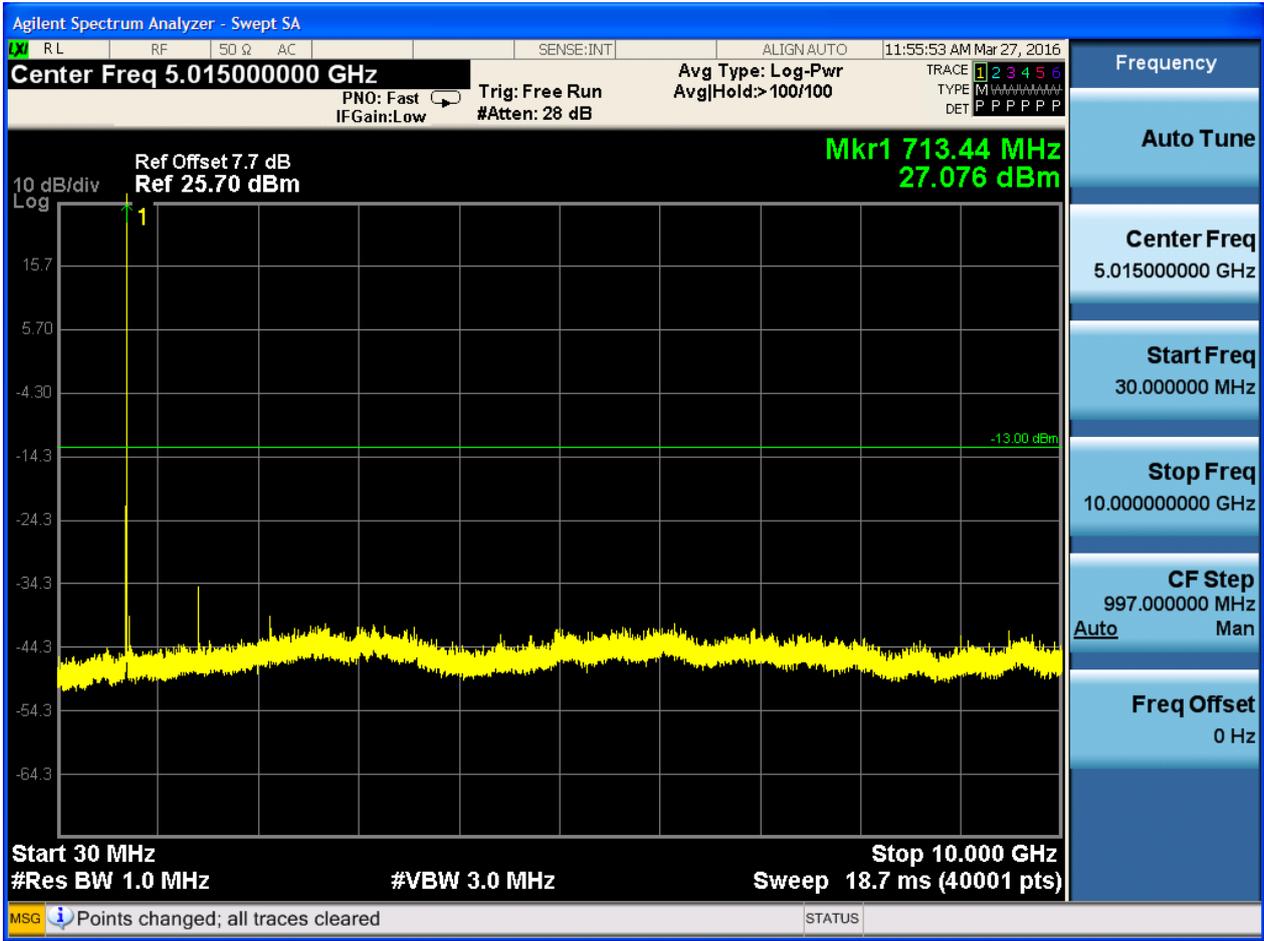


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







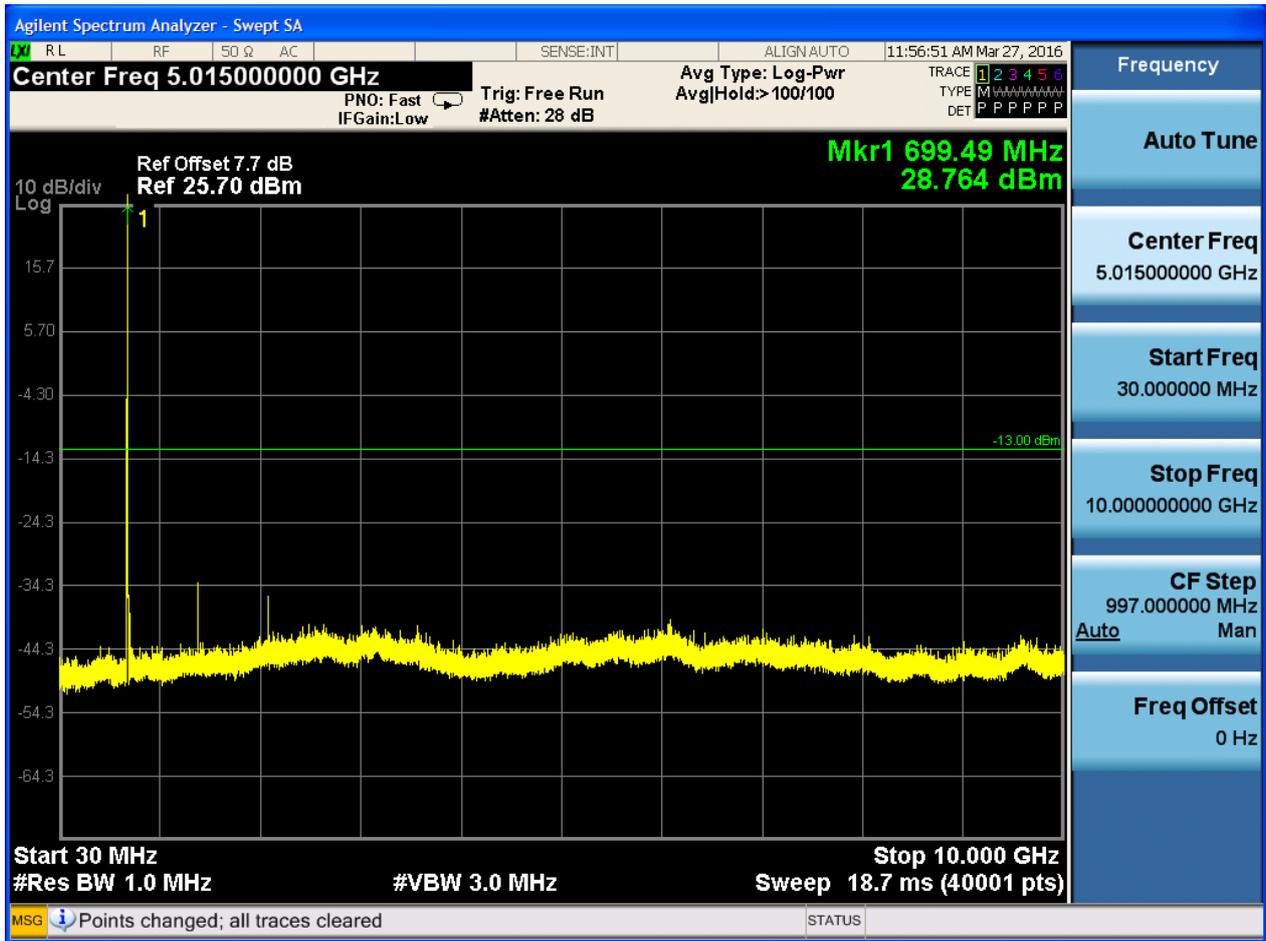


6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

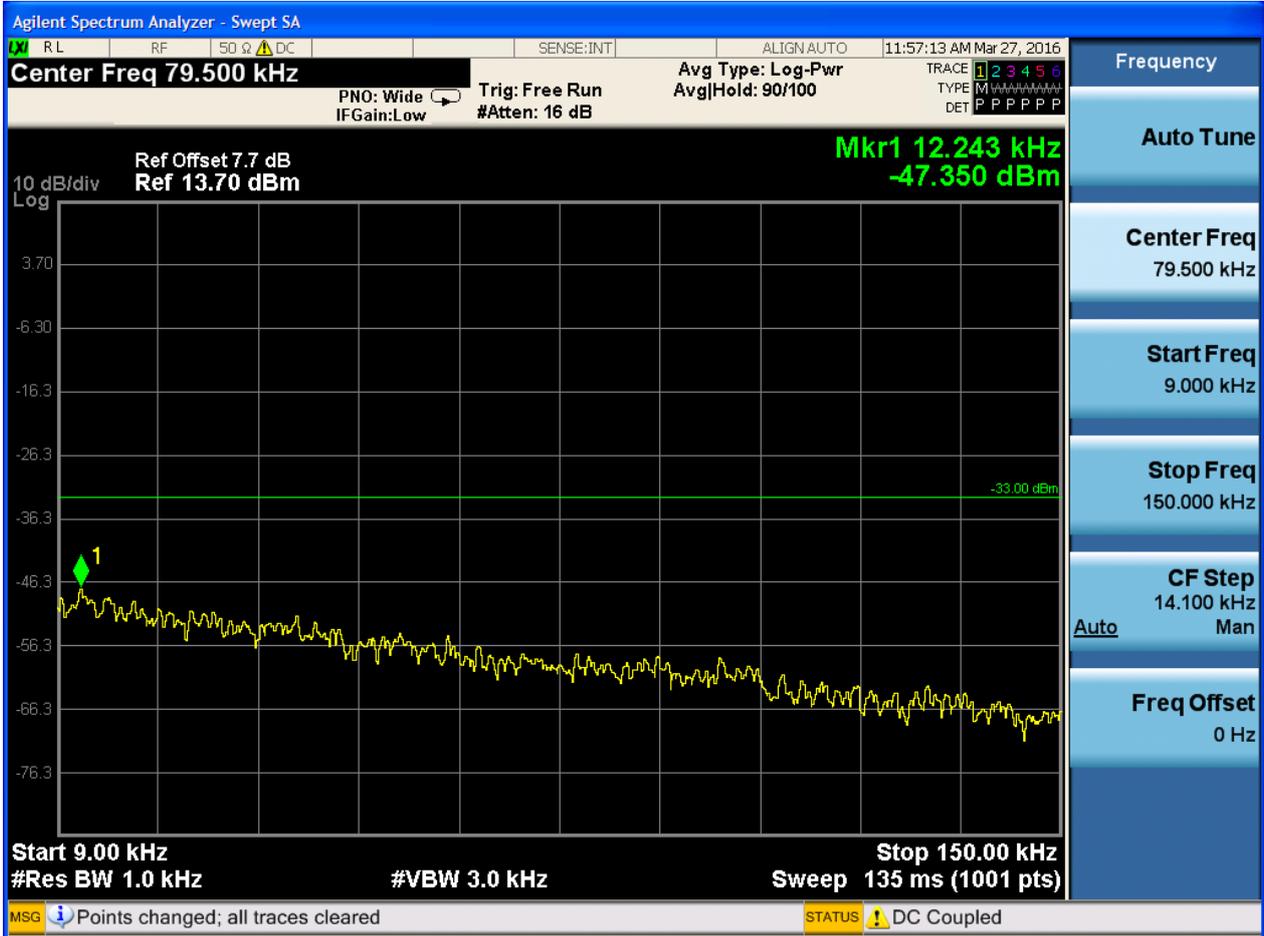


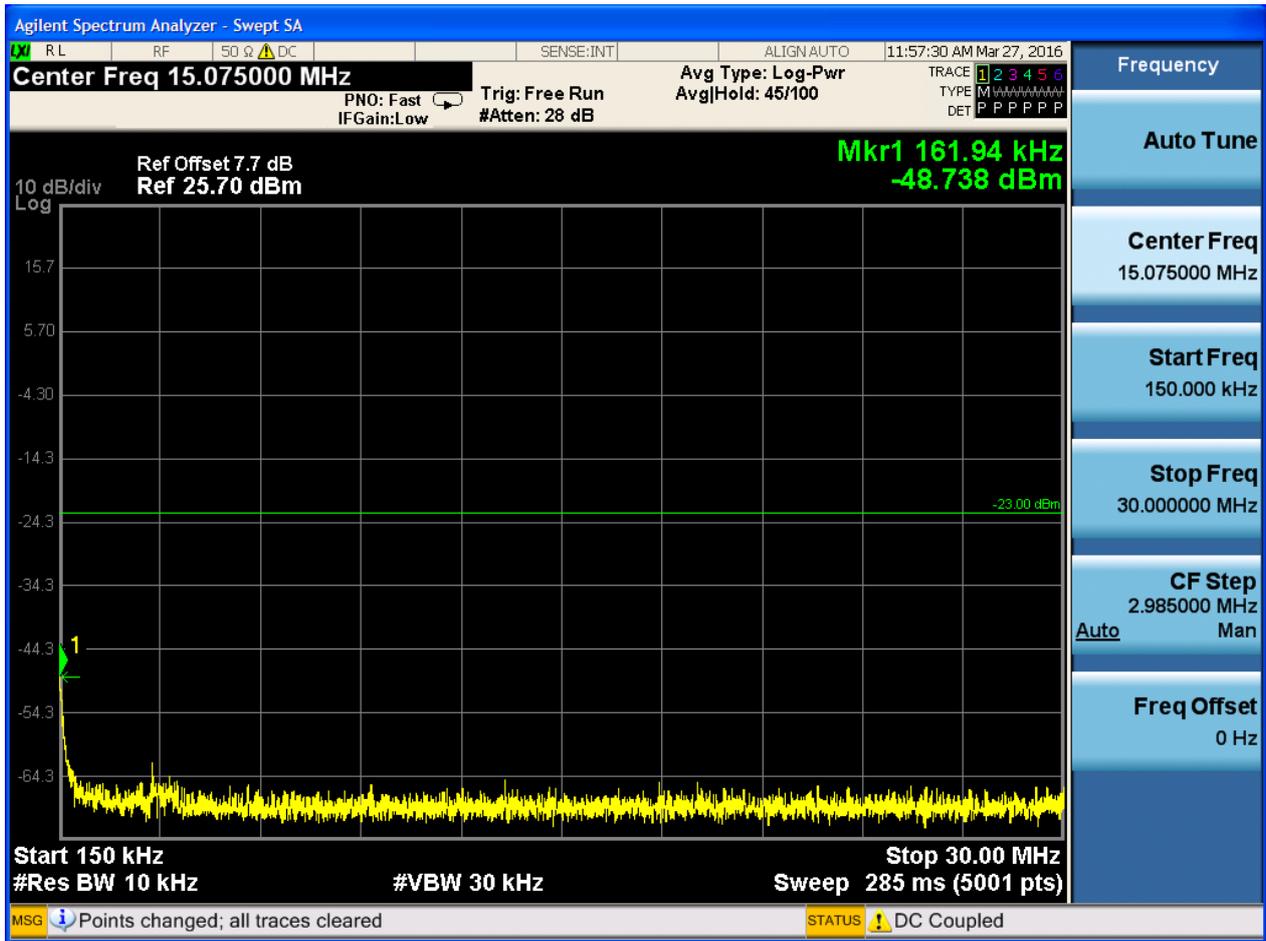


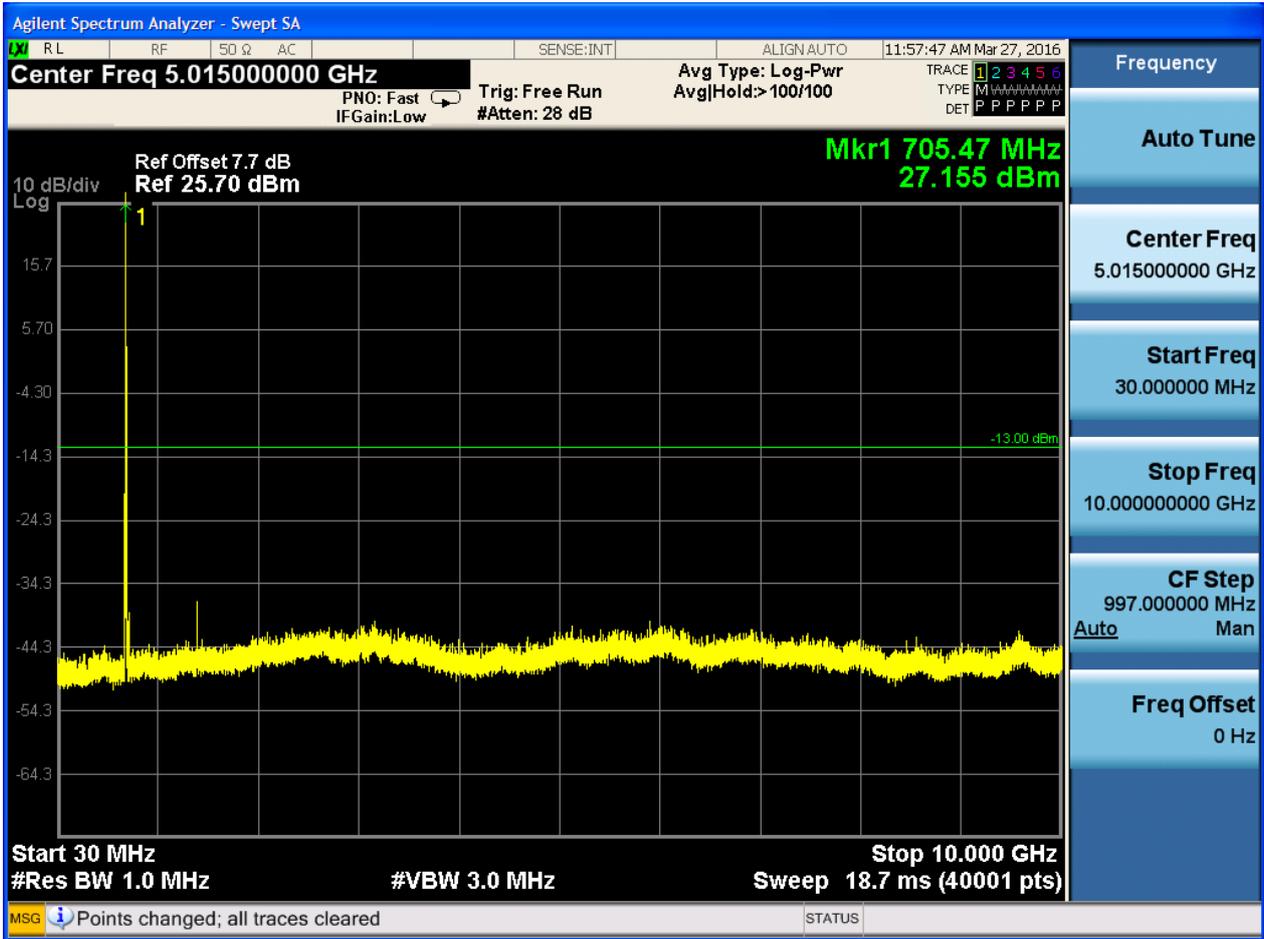


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



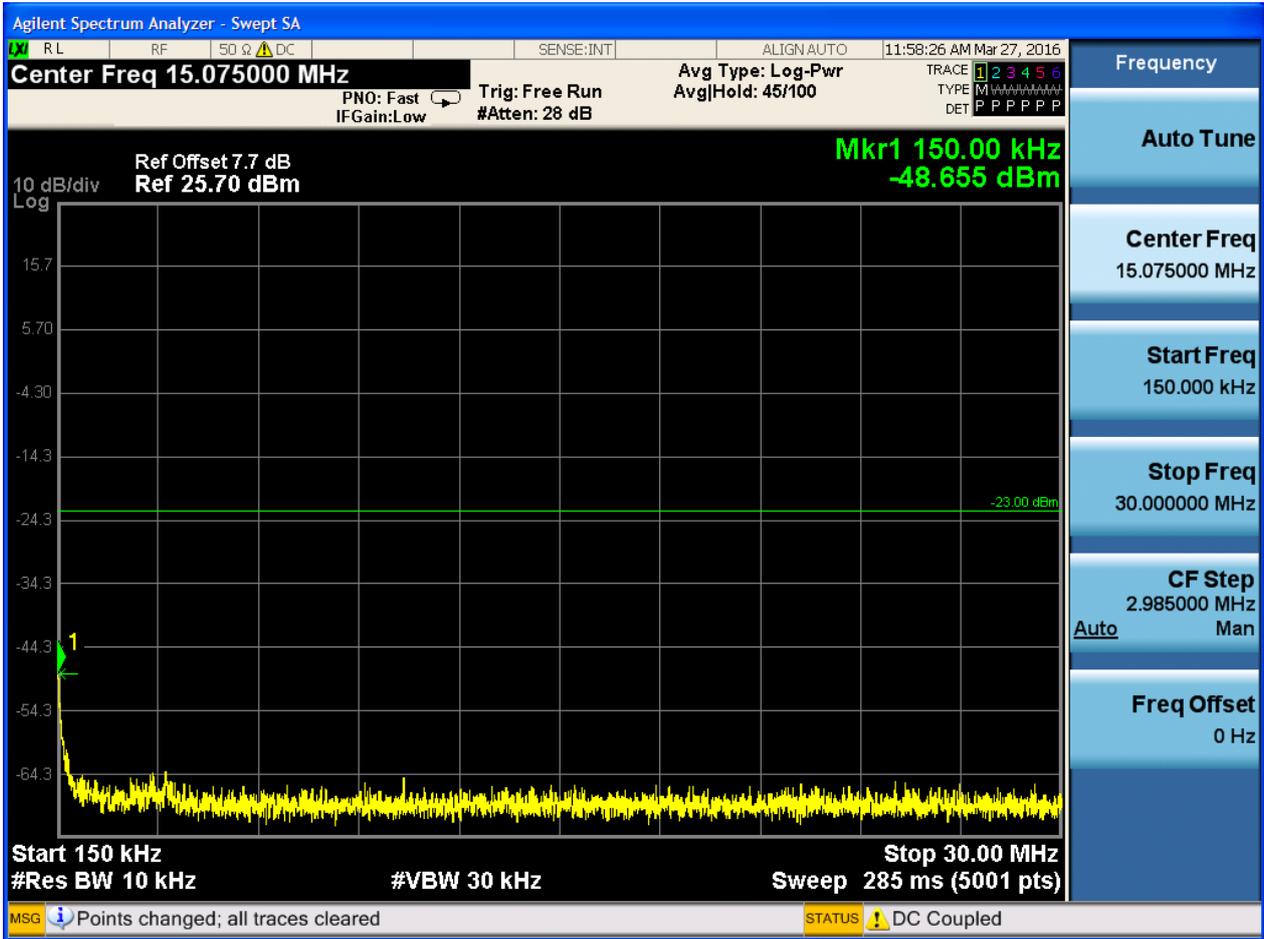


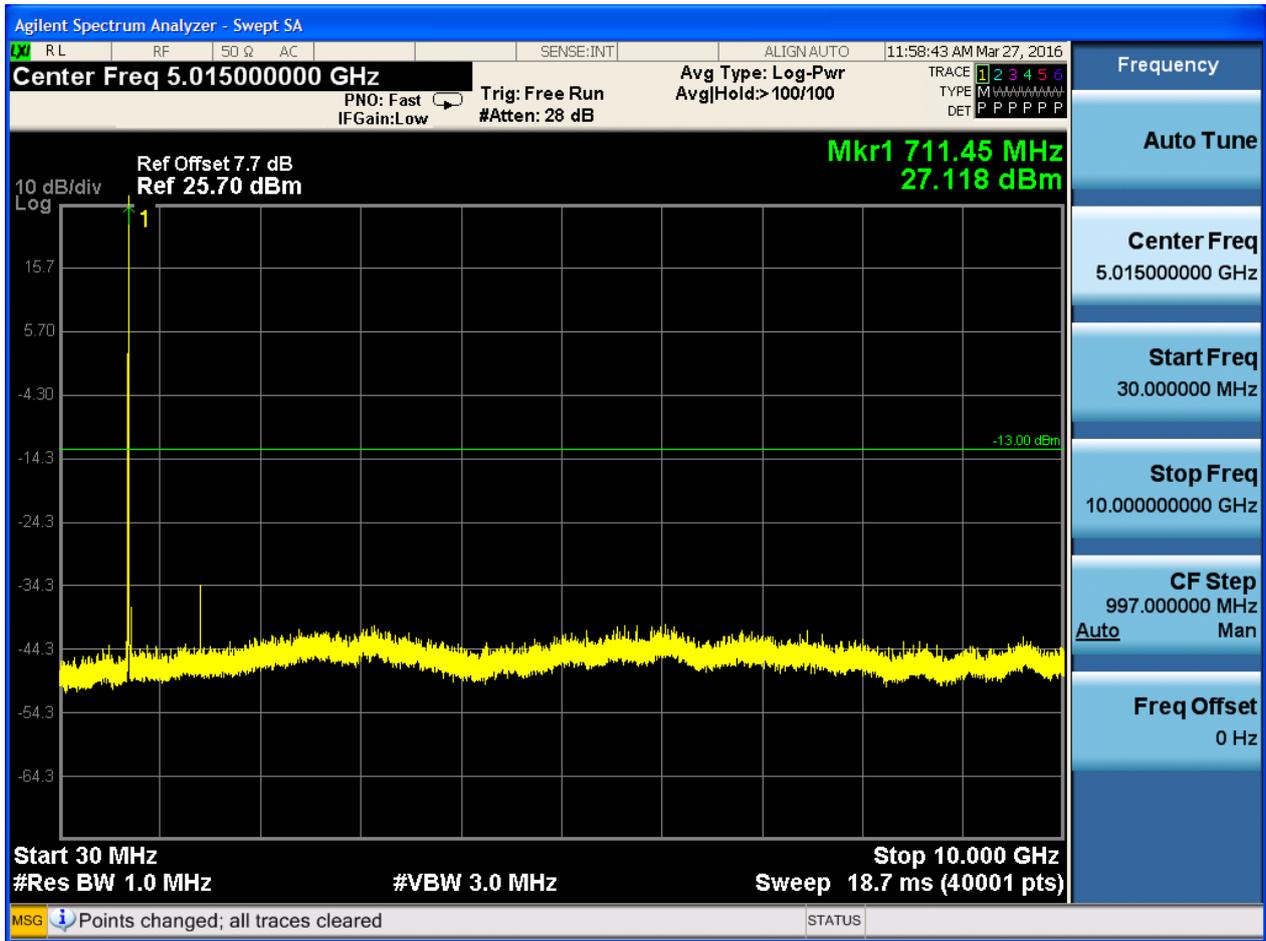


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





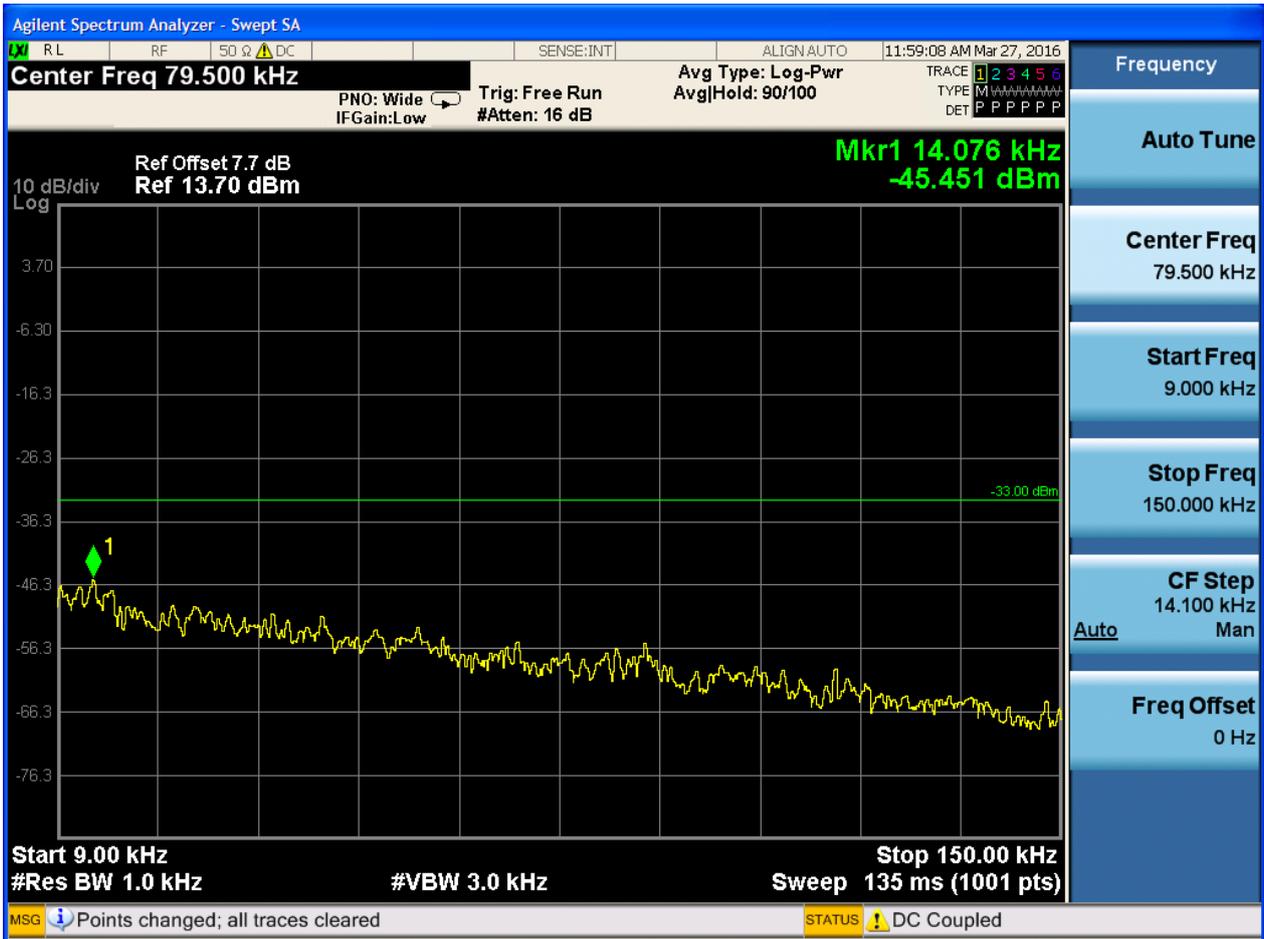


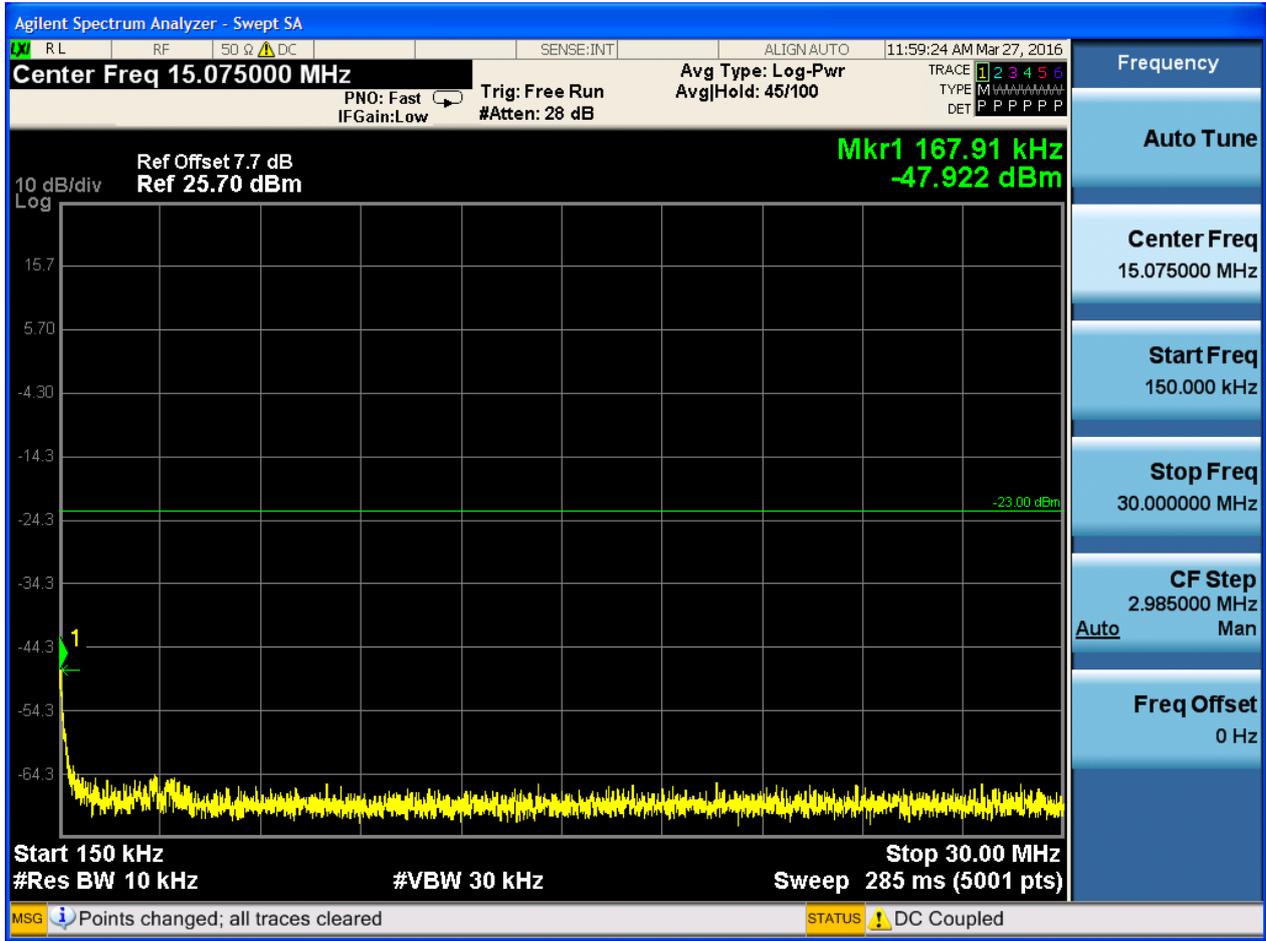


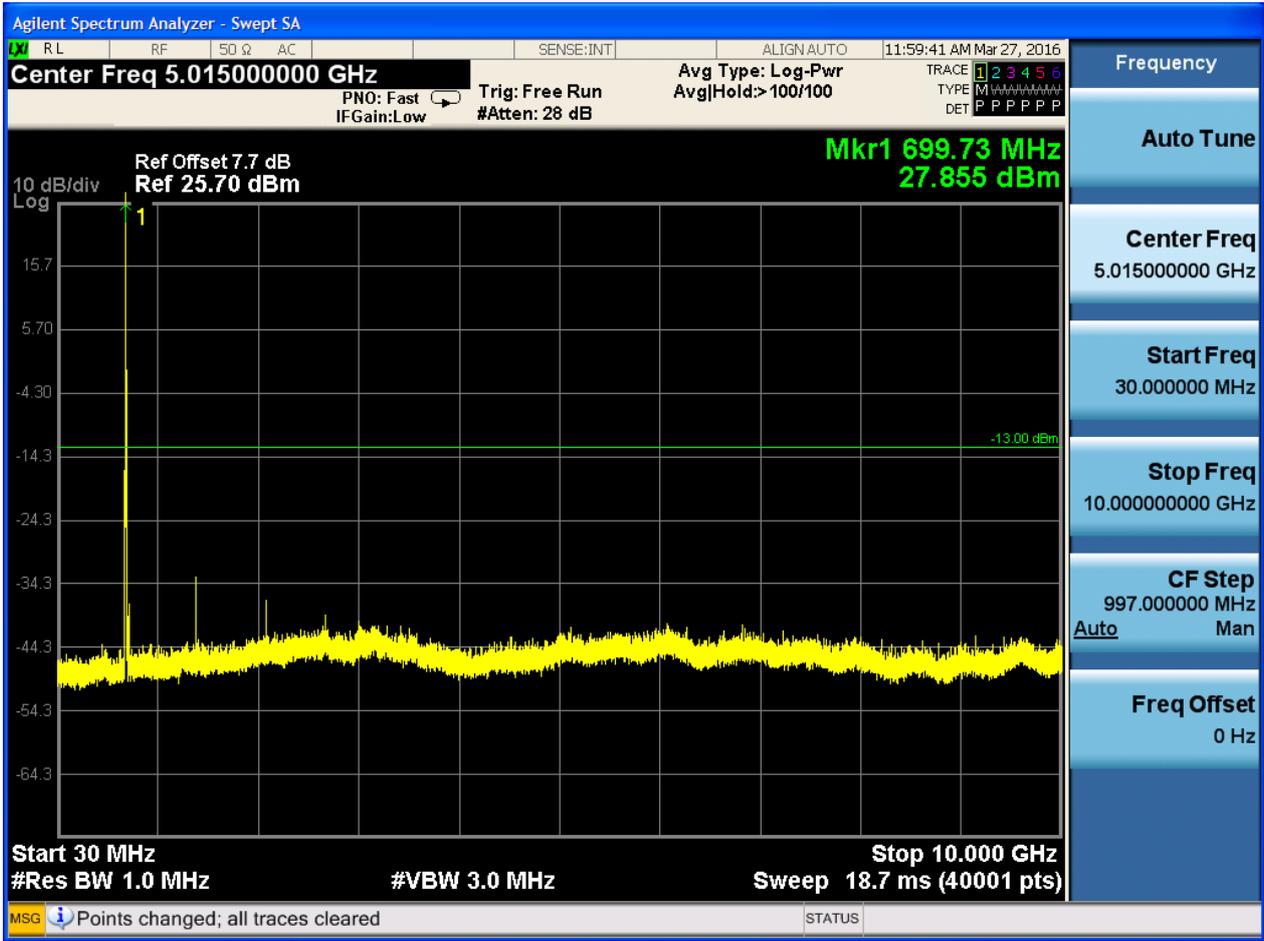
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



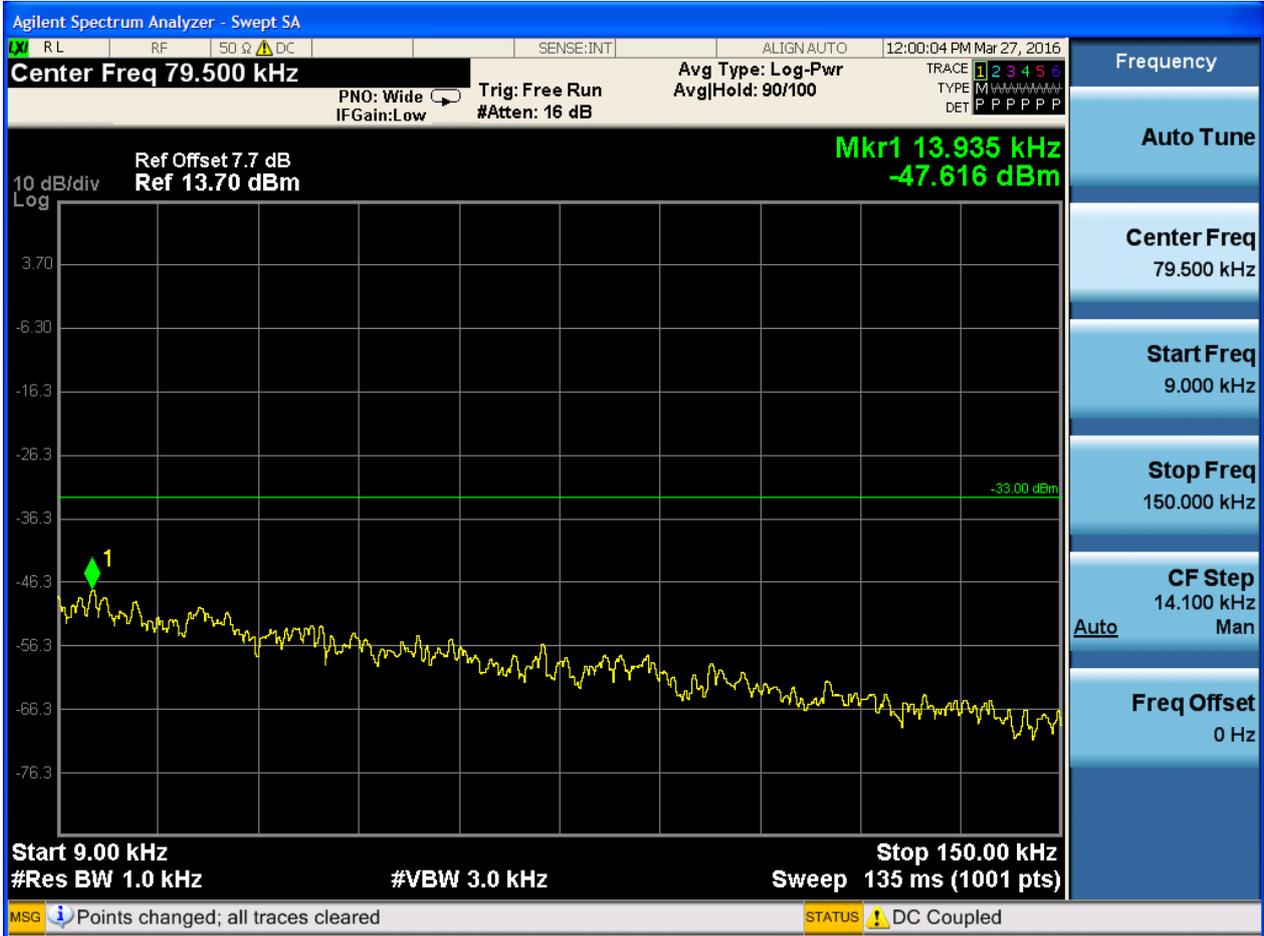


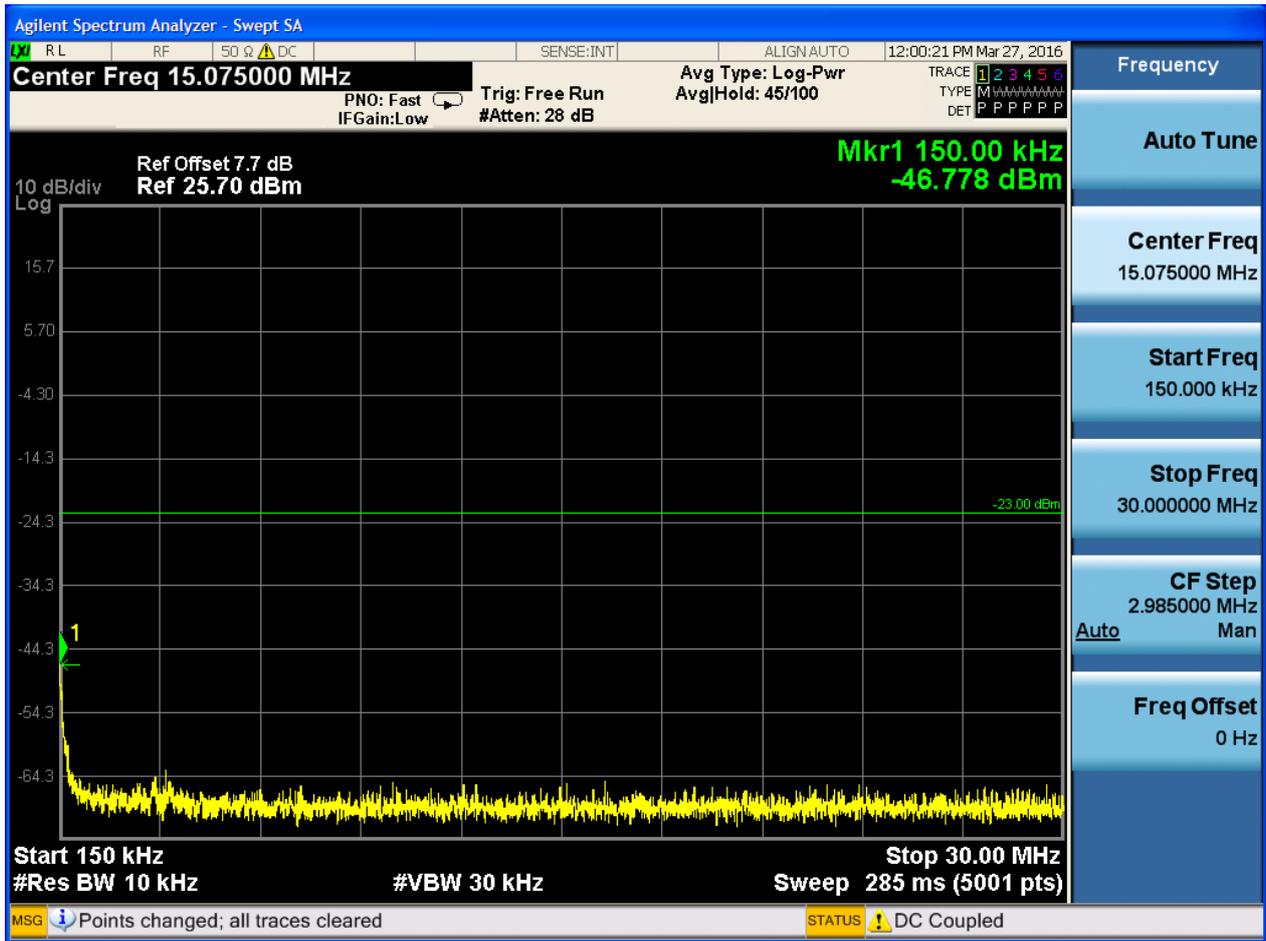


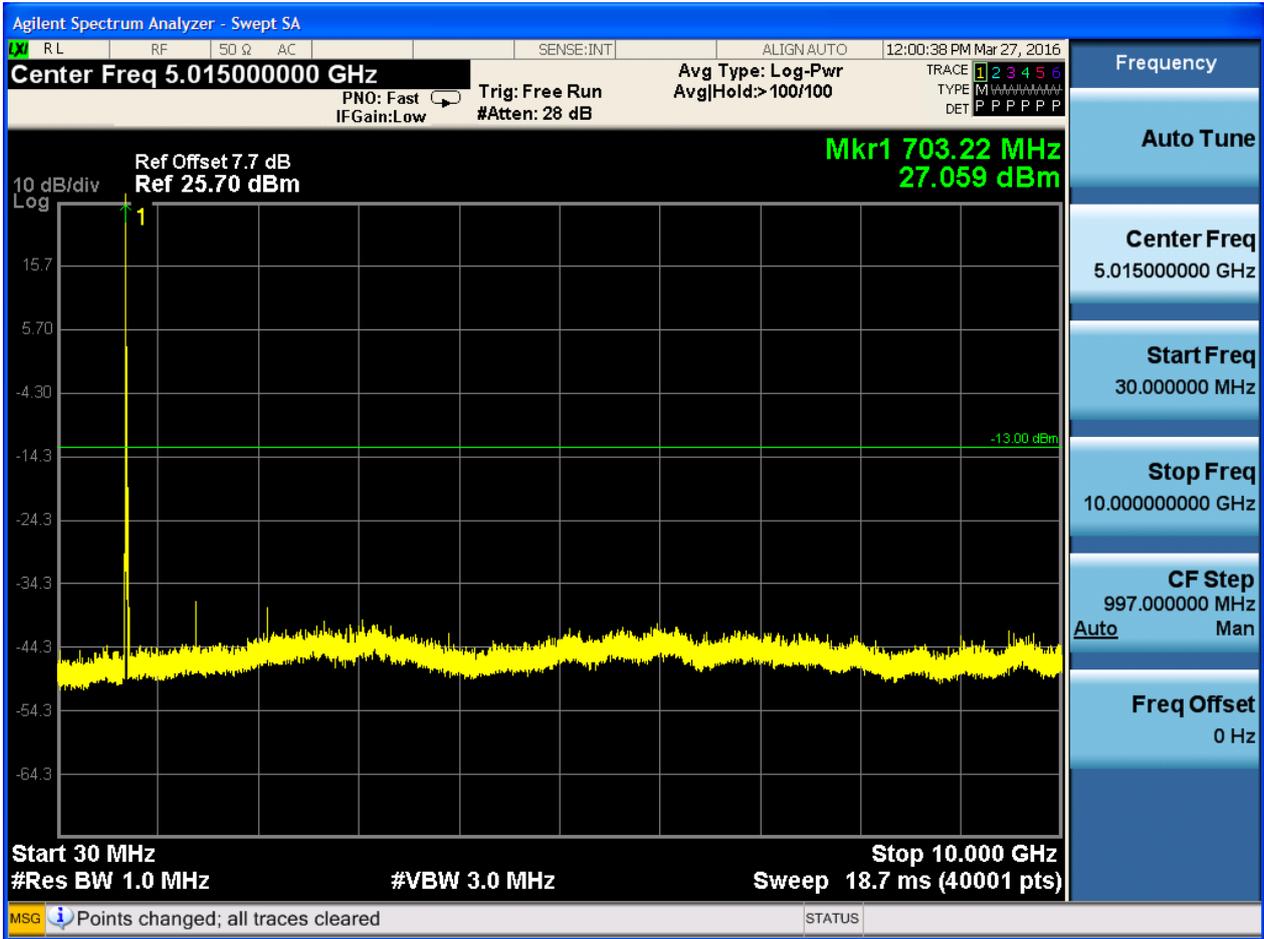


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





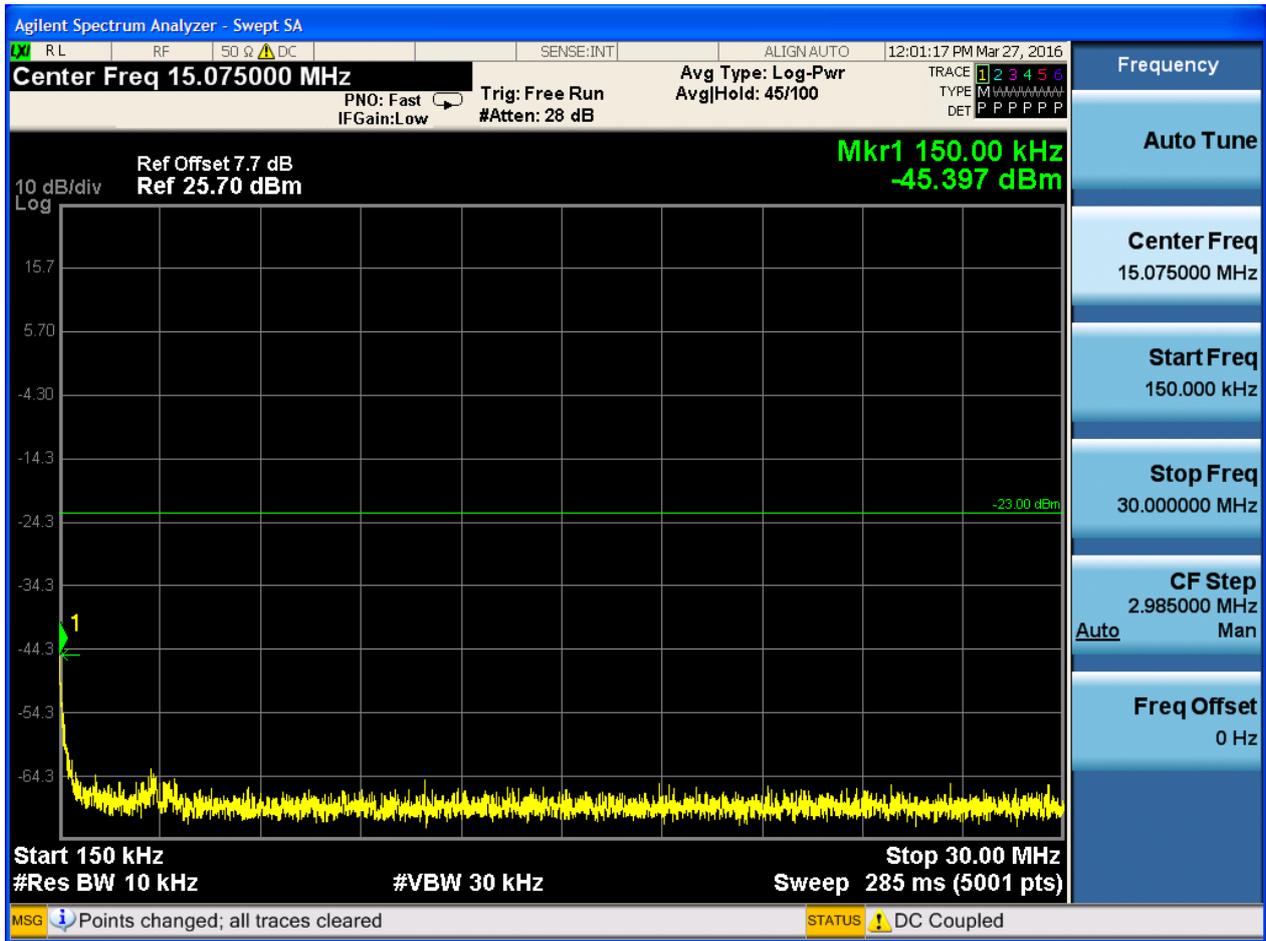


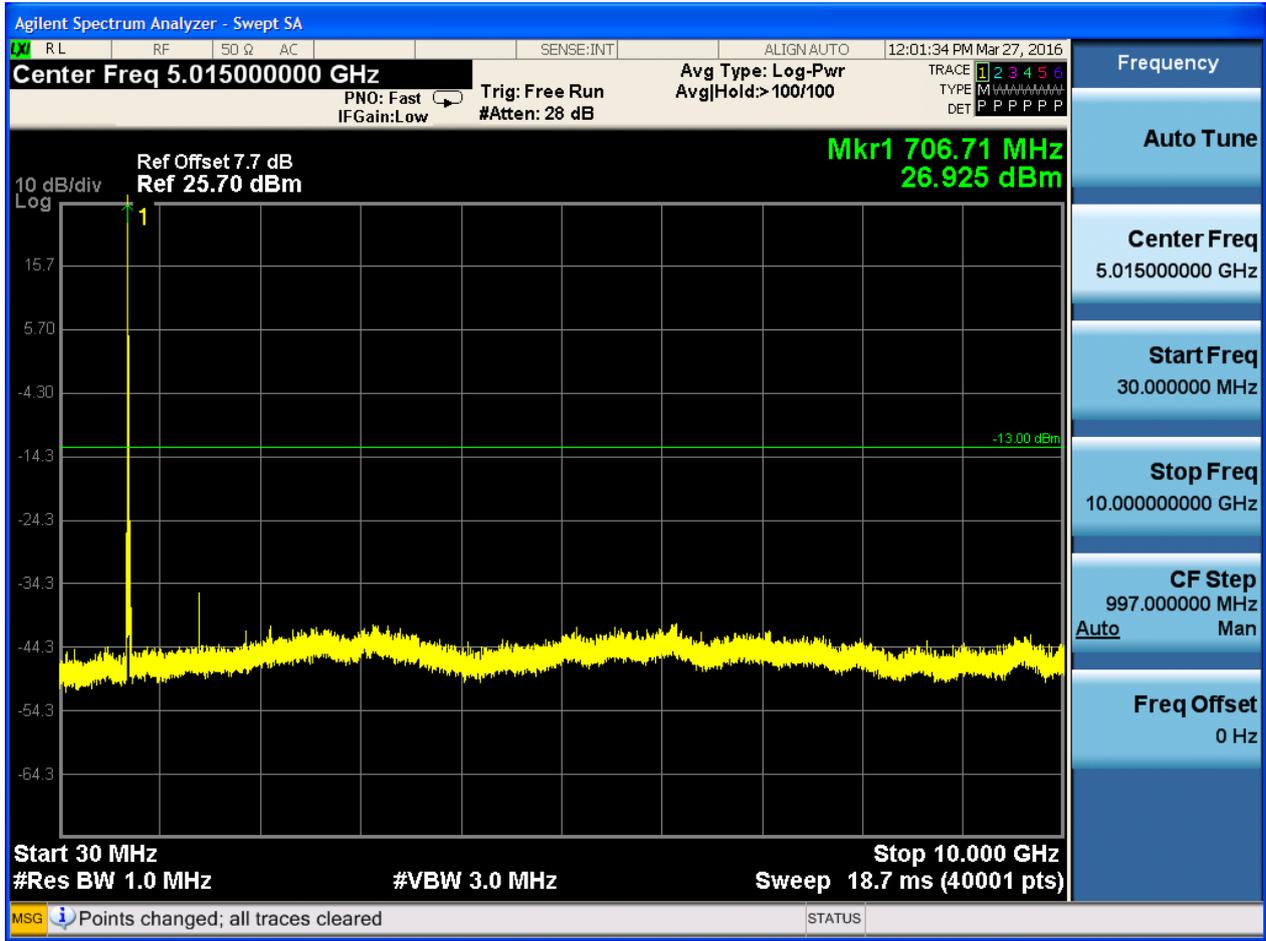


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note:

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

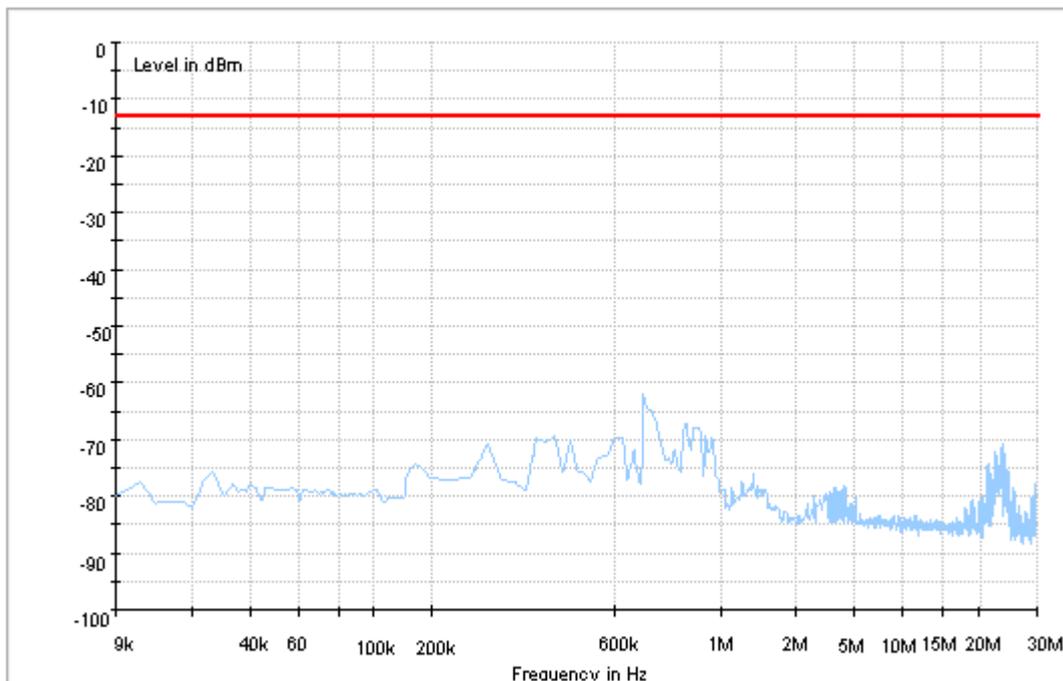
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

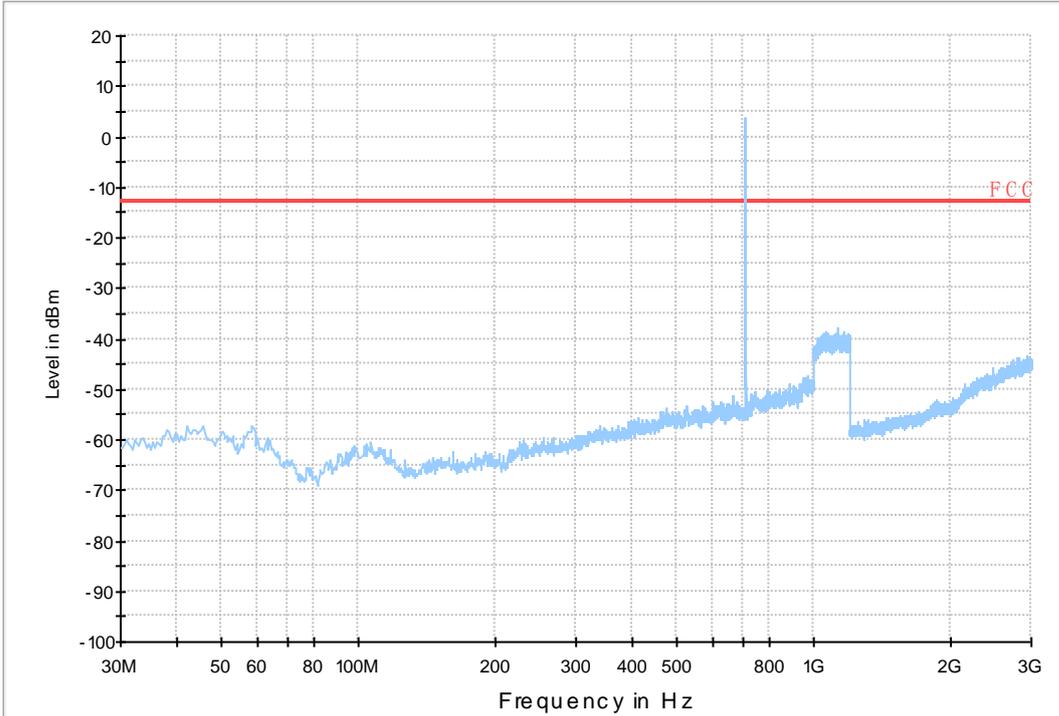
7.1 For LTE

7.1.1 Test Band = BAND12

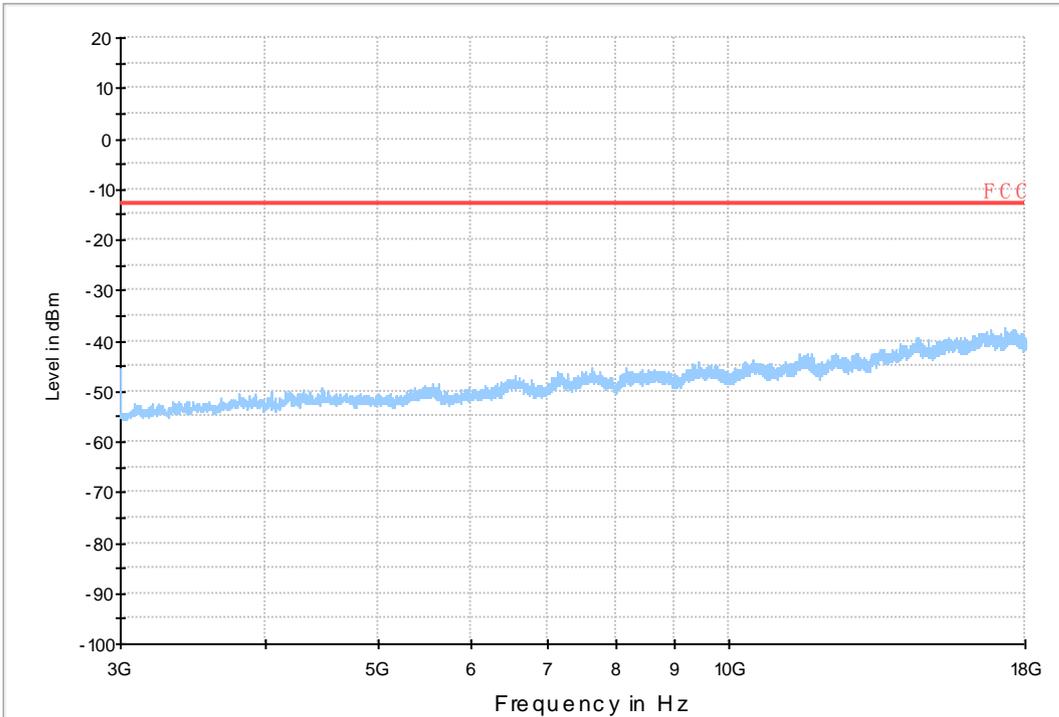
7.1.1.1 Test Bandwidth = 1.4



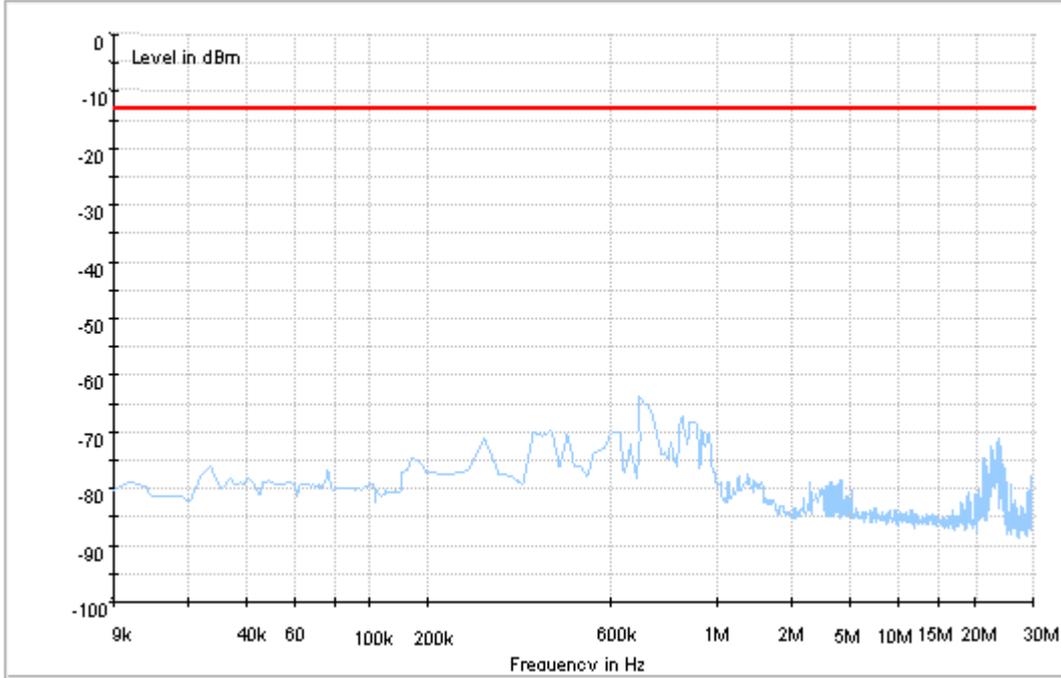
Copy of RSE-TX-DIRECTOR BELOW 1G_L



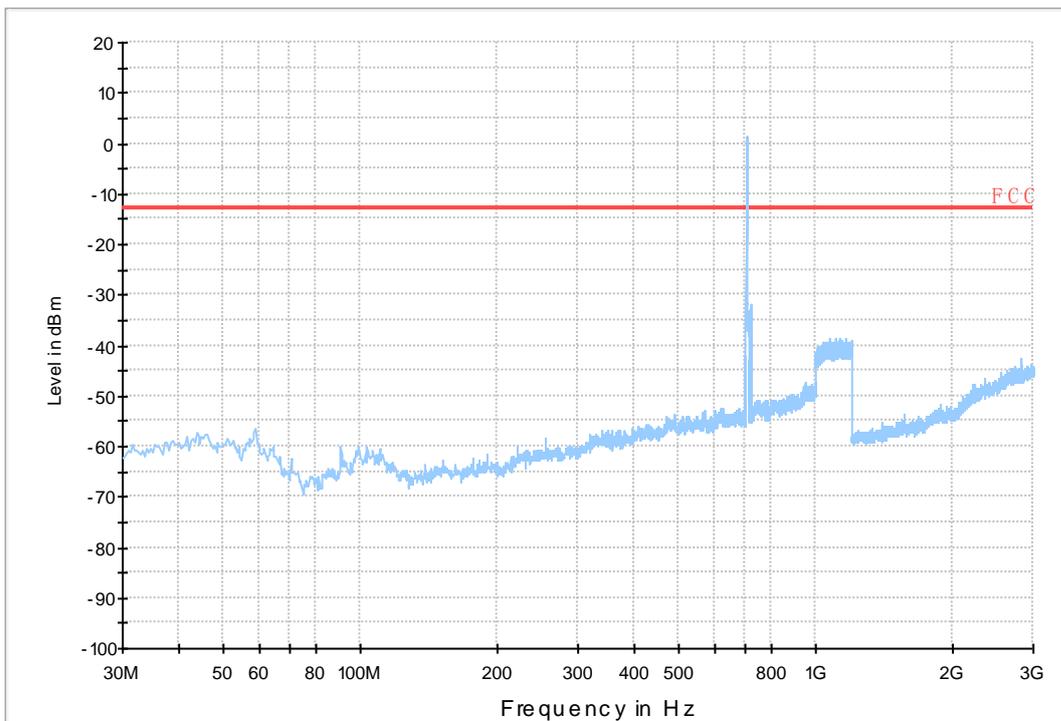
Copy of RSE-TX-DIRECTOR BELOW 1G_H



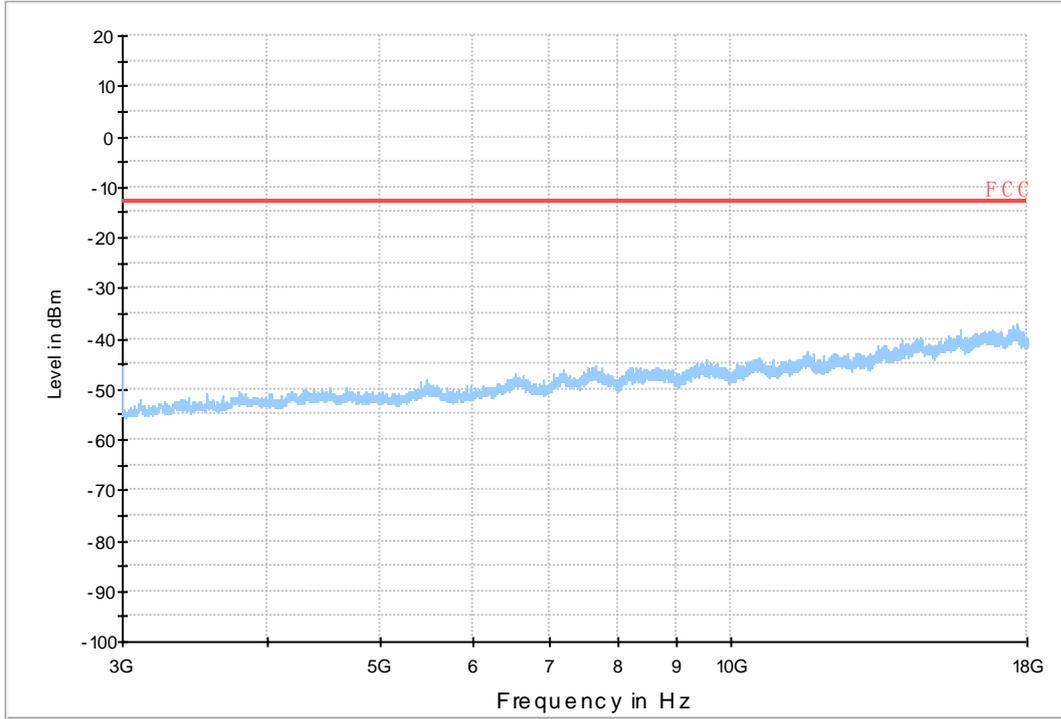
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 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	7.72	0.01103	PASS
					VN	-4.02	-0.00575	PASS
					VH	0.31	0.00044	PASS
			MCH	TN	VL	1.36	0.00192	PASS
					VN	0.1	0.00014	PASS
					VH	-7.05	-0.00996	PASS
			HCH	TN	VL	2.82	0.00394	PASS
					VN	0.62	0.00087	PASS
					VH	-1.13	-0.00158	PASS
		3	LCH	TN	VL	4.12	0.00588	PASS
					VN	2.05	0.00293	PASS
					VH	-9.01	-0.01286	PASS
			MCH	TN	VL	-6.54	-0.00924	PASS
					VN	1.99	0.00281	PASS
					VH	7.52	0.01063	PASS
			HCH	TN	VL	1.14	0.0016	PASS
					VN	-3.85	-0.00539	PASS
					VH	-3.89	-0.00544	PASS
		5	LCH	TN	VL	-5.38	-0.00767	PASS
					VN	-4.85	-0.00691	PASS
					VH	11.79	0.01681	PASS
			MCH	TN	VL	0.07	0.0001	PASS
					VN	-0.04	-0.00006	PASS
					VH	-0.77	-0.00109	PASS
			HCH	TN	VL	-0.2	-0.00028	PASS
					VN	-1.63	-0.00228	PASS
					VH	-32.82	-0.046	PASS
		10	LCH	TN	VL	0.57	0.00081	PASS
					VN	2.56	0.00364	PASS
					VH	1.26	0.00179	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			MCH	TN	VL	1.95	0.00276	PASS	
					VN	-1.83	-0.00259	PASS	
					VH	-0.7	-0.00099	PASS	
			HCH	TN	VL	-1.07	-0.0015	PASS	
					VN	-1.59	-0.00224	PASS	
					VH	-0.51	-0.00072	PASS	
		1.4	LCH	TN	VL	9.48	0.01355	PASS	
					VN	1.16	0.00166	PASS	
					VH	-14.38	-0.02055	PASS	
			MCH	TN	VL	3.19	0.00451	PASS	
					VN	-3.55	-0.00502	PASS	
					VH	5.89	0.00833	PASS	
			HCH	TN	VL	18.61	0.02602	PASS	
					VN	3.82	0.00534	PASS	
					VH	0.26	0.00036	PASS	
			3	LCH	TN	VL	-4.62	-0.0066	PASS
						VN	-1.83	-0.00261	PASS
						VH	3.12	0.00445	PASS
	MCH	TN		VL	-0.86	-0.00122	PASS		
				VN	-4.94	-0.00698	PASS		
				VH	3.16	0.00447	PASS		
	HCH	TN		VL	1.29	0.00181	PASS		
				VN	0.13	0.00018	PASS		
				VH	-4.25	-0.00595	PASS		
	5	LCH	TN	VL	5.78	0.00824	PASS		
				VN	-2.26	-0.00322	PASS		
				VH	-4.21	-0.006	PASS		
		MCH	TN	VL	-1.85	-0.00261	PASS		
				VN	-4.09	-0.00578	PASS		
				VH	3.69	0.00522	PASS		
		HCH	TN	VL	3.82	0.00535	PASS		
				VN	0.79	0.00111	PASS		
				VH	1.63	0.00228	PASS		
	10	LCH	TN	VL	-0.97	-0.00138	PASS		
				VN	1.69	0.0024	PASS		
				VH	-0.46	-0.00065	PASS		
MCH		TN	VL	0.37	0.00052	PASS			
			VN	-1.89	-0.00267	PASS			
			VH	-1.8	-0.00254	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	0.5	0.0007	PASS
					VN	-1.17	-0.00165	PASS
					VH	-0.83	-0.00117	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	14.59	0.02085	PASS
					-20	1.37	0.00196	PASS
					-10	12.8	0.01829	PASS
					0	5.88	0.0084	PASS
					10	1.36	0.00194	PASS
					20	-15.31	-0.02188	PASS
					30	10.51	0.01502	PASS
					40	-2.88	-0.00412	PASS
			50	0.21	0.0003	PASS		
			MCH	VN	-30	-0.26	-0.00037	PASS
					-20	8.08	0.01142	PASS
					-10	-2.19	-0.0031	PASS
					0	1.49	0.00211	PASS
					10	0.6	0.00085	PASS
					20	-14	-0.01979	PASS
					30	0.39	0.00055	PASS
					40	2.79	0.00394	PASS
			HCH	VN	-30	-10.83	-0.01514	PASS
					-20	11.42	0.01597	PASS
					-10	-5.29	-0.0074	PASS
					0	-7.93	-0.01109	PASS
					10	-0.1	-0.00014	PASS
					20	8.18	0.01144	PASS
					30	-14.33	-0.02003	PASS
		40			-5.22	-0.0073	PASS	
		50	0.94	0.00131	PASS			
		3	LCH	VN	-30	4.65	0.00664	PASS
					-20	7.94	0.01133	PASS
					-10	5.69	0.00812	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-5.84	-0.00834	PASS
					10	-0.21	-0.0003	PASS
					20	4.91	0.00701	PASS
					30	2.47	0.00353	PASS
					40	-0.24	-0.00034	PASS
					50	0.6	0.00086	PASS
			MCH	VN	-30	3.81	0.00539	PASS
					-20	0.46	0.00065	PASS
					-10	-2.89	-0.00408	PASS
					0	5.65	0.00799	PASS
					10	11.26	0.01592	PASS
					20	-1.04	-0.00147	PASS
					30	0.51	0.00072	PASS
					40	-7.71	-0.0109	PASS
			HCH	VN	-30	2.98	0.00417	PASS
					-20	-1.8	-0.00252	PASS
					-10	-4.11	-0.00575	PASS
					0	8.5	0.0119	PASS
					10	6.29	0.0088	PASS
					20	2.39	0.00334	PASS
					30	-4.35	-0.00609	PASS
		40			0.33	0.00046	PASS	
		5	LCH	VN	-30	-3.15	-0.00449	PASS
					-20	3.65	0.0052	PASS
					-10	-1.03	-0.00147	PASS
					0	0.76	0.00108	PASS
					10	-0.23	-0.00033	PASS
					20	-0.94	-0.00134	PASS
					30	8.1	0.01155	PASS
					40	-2.56	-0.00365	PASS
					50	-1.02	-0.00145	PASS
					MCH	VN	-30	-2.42
		-20	-2.42	-0.00342			PASS	
		-10	2.35	0.00332			PASS	
		0	-1.96	-0.00277			PASS	
		10	0.09	0.00013			PASS	
		20	3.35	0.00473			PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					30	-2.02	-0.00286	PASS			
					40	-3.56	-0.00503	PASS			
					50	0.1	0.00014	PASS			
			HCH	VN	-30	-2.37	-0.00332	PASS			
					-20	33.89	0.0475	PASS			
					-10	-1.24	-0.00174	PASS			
					0	1.5	0.0021	PASS			
					10	0.6	0.00084	PASS			
					20	-2.22	-0.00311	PASS			
					30	-8.63	-0.0121	PASS			
					40	2.09	0.00293	PASS			
					50	1.03	0.00144	PASS			
					10	LCH	VN	-30	-0.04	-0.00006	PASS
								-20	0.07	0.0001	PASS
								-10	-3.08	-0.00438	PASS
		0	-3	-0.00426				PASS			
		10	-1.52	-0.00216				PASS			
		20	-0.67	-0.00095				PASS			
		30	0.01	0.00001				PASS			
		40	-0.64	-0.00091				PASS			
		50	-0.51	-0.00072				PASS			
		MCH	VN	-30				0.03	0.00004	PASS	
				-20				1.89	0.00267	PASS	
				-10				-1.09	-0.00154	PASS	
				0				-3.2	-0.00452	PASS	
				10				0.46	0.00065	PASS	
				20				0.53	0.00075	PASS	
				30	-0.44	-0.00062	PASS				
				40	0.04	0.00006	PASS				
				50	-0.94	-0.00133	PASS				
		HCH	VN	-30	-1	-0.00141	PASS				
				-20	-1.82	-0.00256	PASS				
				-10	-1.86	-0.00262	PASS				
				0	-0.87	-0.00122	PASS				
				10	0.19	0.00027	PASS				
				20	-0.73	-0.00103	PASS				
				30	0.29	0.00041	PASS				
				40	-0.3	-0.00042	PASS				
				50	-1.65	-0.00232	PASS				

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	-30	-0.6	-0.00086	PASS
					-20	-0.66	-0.00094	PASS
					-10	7.67	0.01096	PASS
					0	-8.71	-0.01245	PASS
					10	-16.15	-0.02308	PASS
					20	-5.25	-0.0075	PASS
					30	4.82	0.00689	PASS
					40	4.12	0.00589	PASS
					50	2.8	0.004	PASS
			MCH	VN	-30	5.49	0.00776	PASS
					-20	-11.07	-0.01565	PASS
					-10	3.02	0.00427	PASS
					0	4.65	0.00657	PASS
					10	8.75	0.01237	PASS
					20	5.31	0.00751	PASS
					30	-9.58	-0.01354	PASS
					40	-7.18	-0.01015	PASS
					50	-12.5	-0.01767	PASS
		HCH	VN	-30	5.68	0.00794	PASS	
				-20	-10.07	-0.01408	PASS	
				-10	-6.08	-0.0085	PASS	
				0	0.53	0.00074	PASS	
				10	-9.04	-0.01264	PASS	
				20	11.09	0.0155	PASS	
				30	-2.59	-0.00362	PASS	
				40	7.01	0.0098	PASS	
				50	1.53	0.00214	PASS	
		3	LCH	VN	-30	-9.47	-0.01352	PASS
					-20	4.31	0.00615	PASS
					-10	-2.07	-0.00296	PASS
					0	0.46	0.00066	PASS
					10	4.12	0.00588	PASS
					20	4.65	0.00664	PASS
					30	-8.31	-0.01186	PASS
					40	8.34	0.01191	PASS
					50	0.63	0.0009	PASS
MCH	VN		-30	3.49	0.00493	PASS		
			-20	3.1	0.00438	PASS		
			-10	3.29	0.00465	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	3.12	0.00441	PASS
					10	-3.73	-0.00527	PASS
					20	-2.53	-0.00358	PASS
					30	-1.57	-0.00222	PASS
					40	-6.74	-0.00953	PASS
					50	-4.55	-0.00643	PASS
			HCH	VN	-30	-2.23	-0.00312	PASS
					-20	-0.97	-0.00136	PASS
					-10	0.86	0.0012	PASS
					0	-3.1	-0.00434	PASS
					10	-4.84	-0.00677	PASS
					20	5.11	0.00715	PASS
					30	-1.33	-0.00186	PASS
					40	2.69	0.00376	PASS
		50	1.95	0.00273	PASS			
		5	LCH	VN	-30	-7.7	-0.01098	PASS
					-20	-0.06	-0.00009	PASS
					-10	-4.81	-0.00686	PASS
					0	1.87	0.00267	PASS
					10	0.31	0.00044	PASS
					20	4.38	0.00624	PASS
					30	9.23	0.01316	PASS
					40	-0.44	-0.00063	PASS
			50	-2.7	-0.00385	PASS		
			MCH	VN	-30	-2.47	-0.00349	PASS
					-20	-1.89	-0.00267	PASS
					-10	-1.86	-0.00263	PASS
					0	2.43	0.00343	PASS
					10	-1.33	-0.00188	PASS
		20			-2.6	-0.00367	PASS	
		30			0.19	0.00027	PASS	
		40			0.82	0.00116	PASS	
		50	6.21	0.00878	PASS			
		HCH	VN	-30	0.63	0.00088	PASS	
				-20	-1.19	-0.00167	PASS	
				-10	0.43	0.0006	PASS	
				0	-0.5	-0.0007	PASS	
				10	1.53	0.00214	PASS	
				20	-0.8	-0.00112	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-2.96	-0.00415	PASS		
					40	-1.02	-0.00143	PASS		
					50	-0.57	-0.0008	PASS		
		10	LCH	VN	-30	-0.27	-0.00038	PASS		
					-20	-1.22	-0.00173	PASS		
					-10	-0.57	-0.00081	PASS		
					0	-0.09	-0.00013	PASS		
					10	-0.44	-0.00063	PASS		
					20	-0.97	-0.00138	PASS		
					30	-2.95	-0.00419	PASS		
					40	-3.3	-0.00469	PASS		
					50	-0.77	-0.00109	PASS		
					MCH	VN	-30	-0.8	-0.00113	PASS
							-20	-0.07	-0.0001	PASS
							-10	-0.29	-0.00041	PASS
							0	0.49	0.00069	PASS
							10	-1.29	-0.00182	PASS
							20	0.1	0.00014	PASS
		30	-0.79	-0.00112			PASS			
		40	-0.33	-0.00047			PASS			
		HCH	VN	-30	0.94	0.00132	PASS			
				-20	1.43	0.00201	PASS			
				-10	-1.46	-0.00205	PASS			
				0	1.23	0.00173	PASS			
				10	-0.63	-0.00089	PASS			
				20	-1.09	-0.00153	PASS			
				30	-0.54	-0.00076	PASS			
				40	-0.94	-0.00132	PASS			
		50	0.09	0.00013	PASS					

END