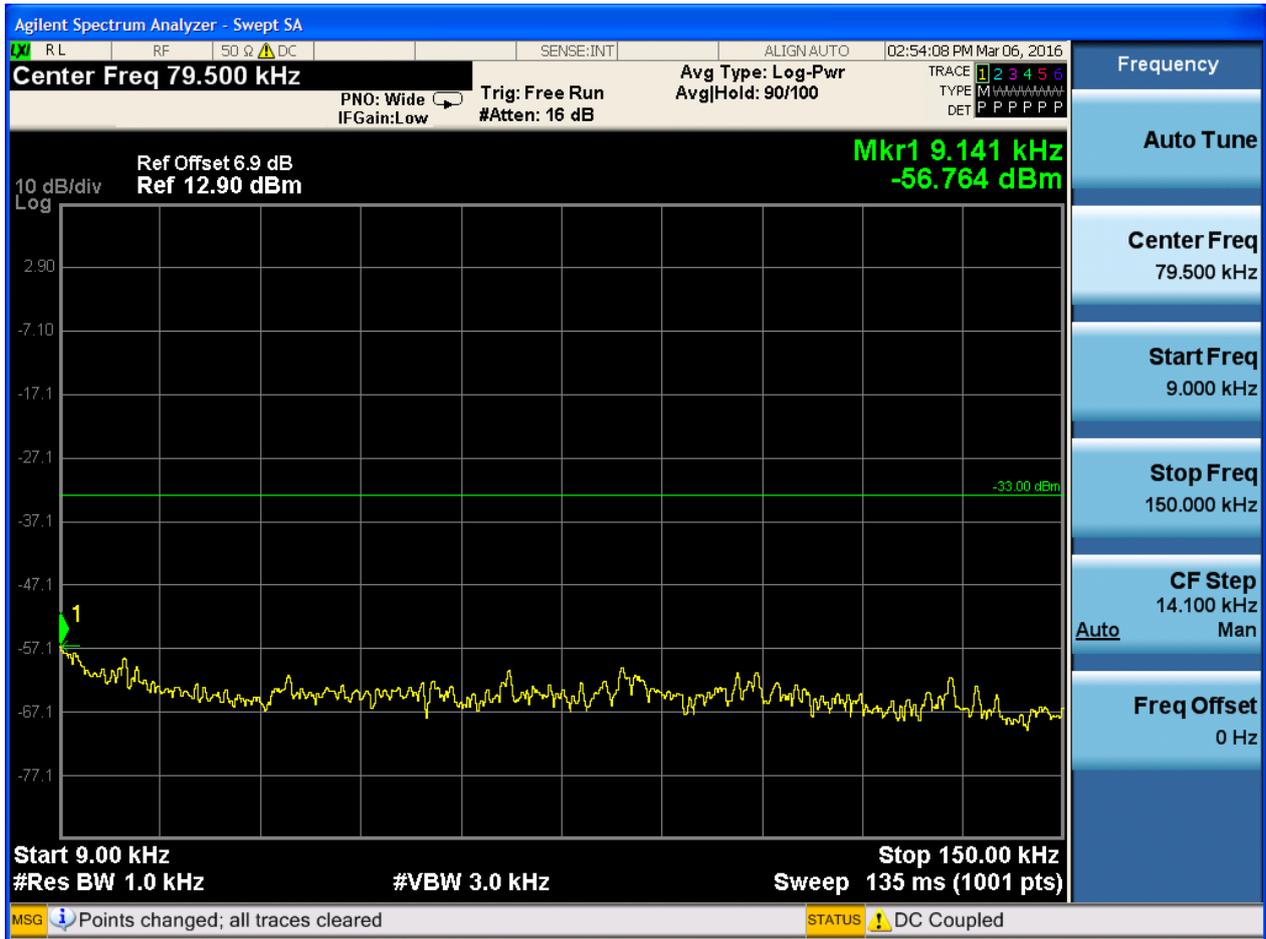


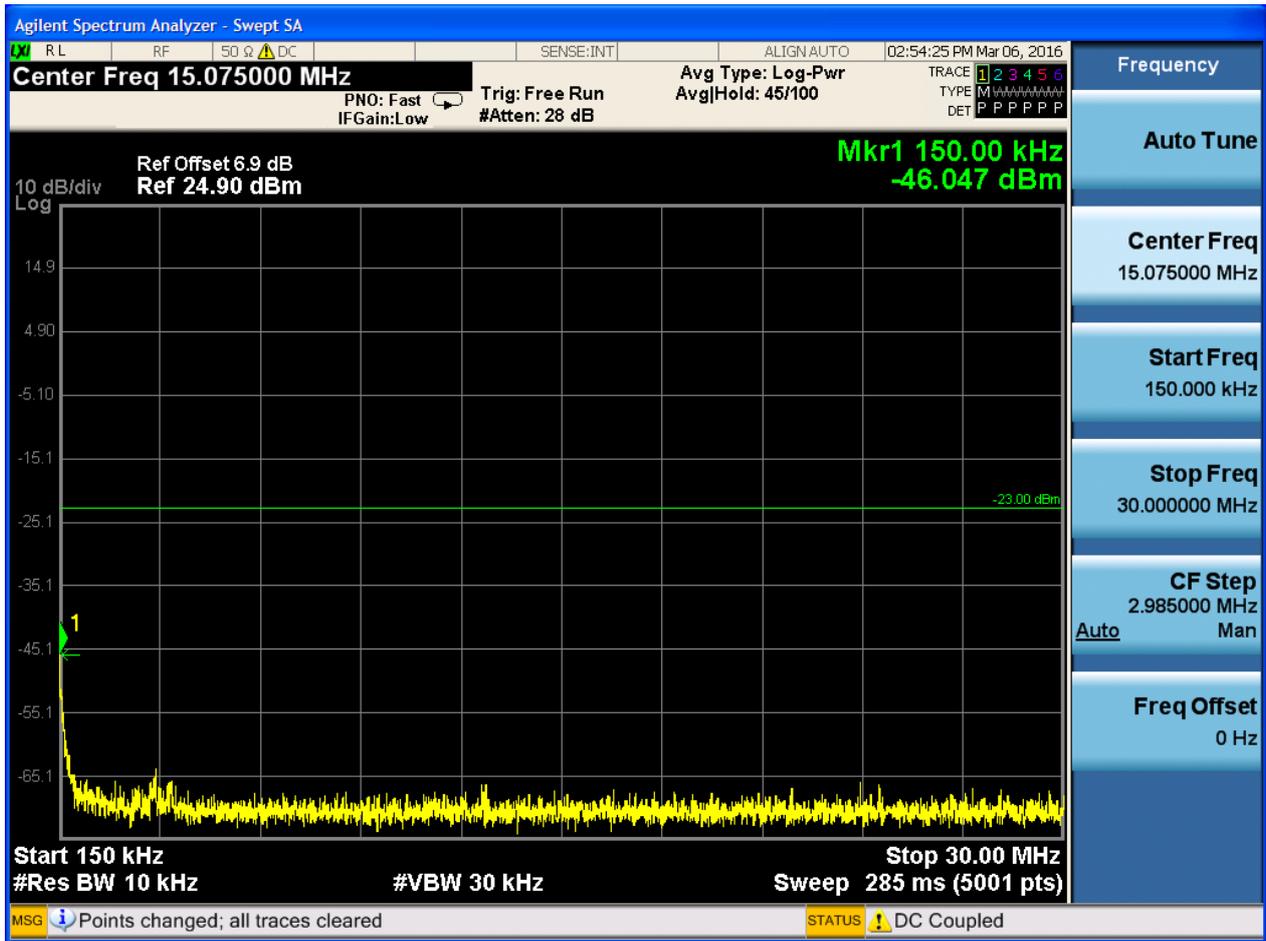


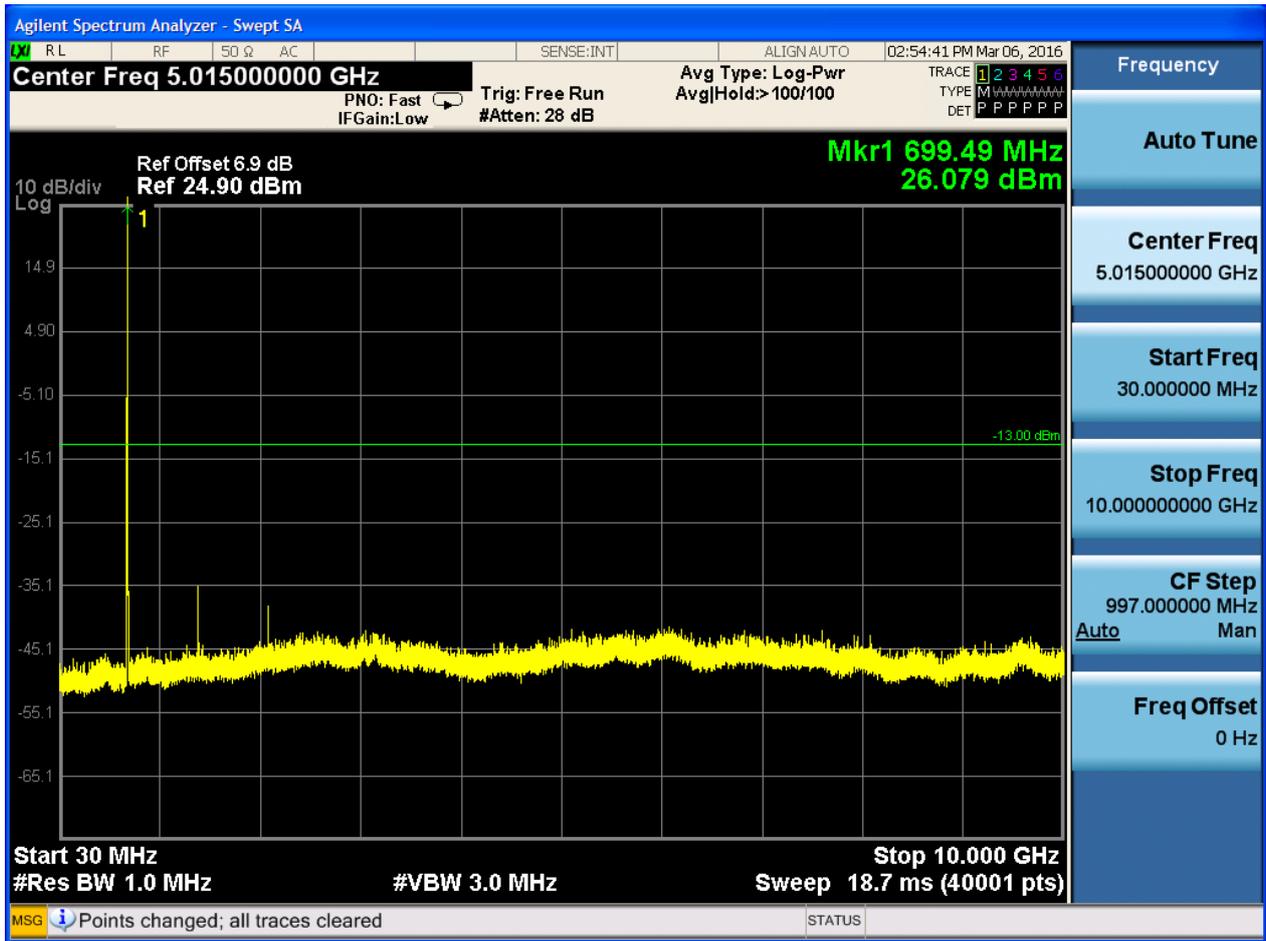
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



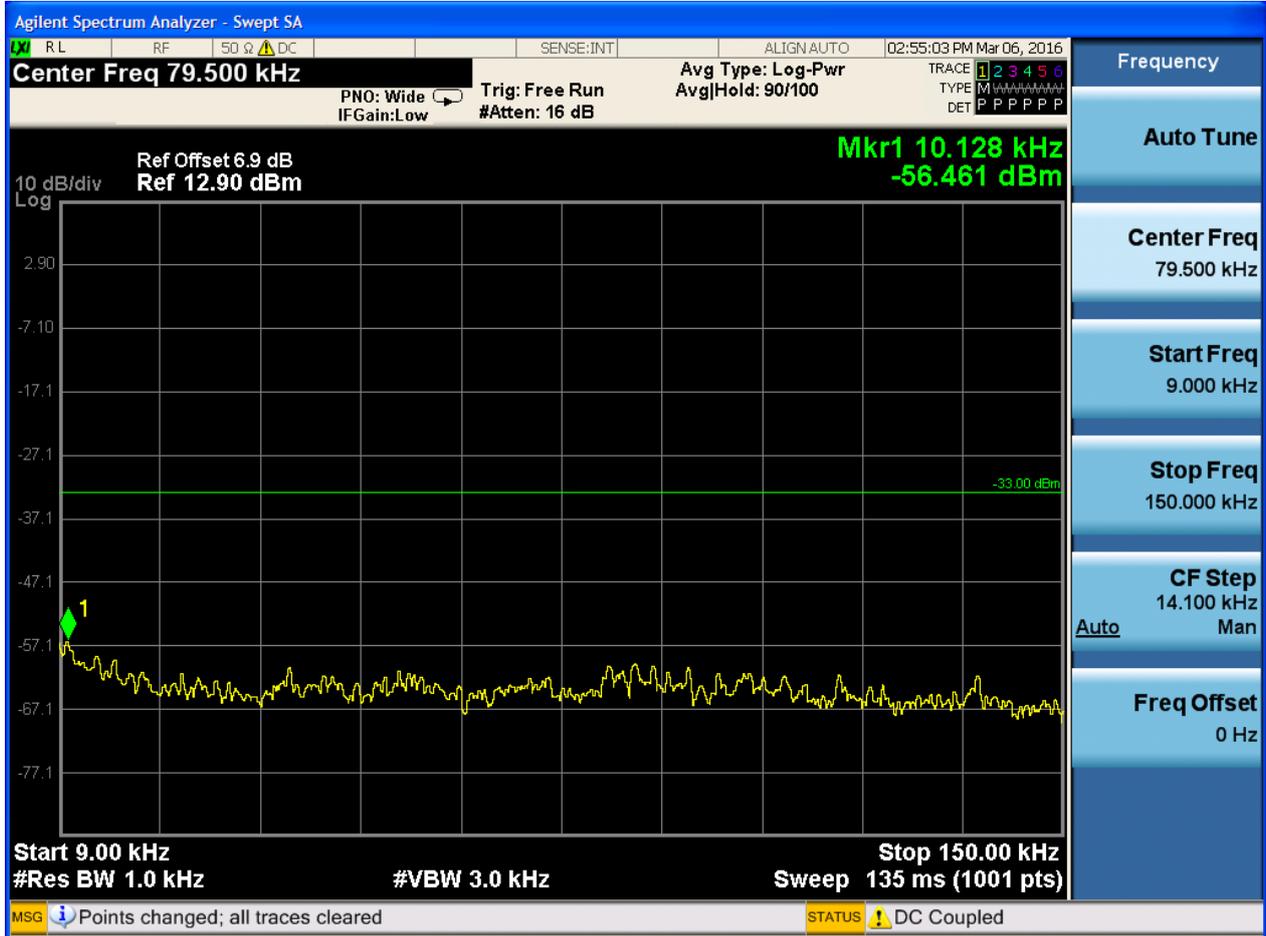




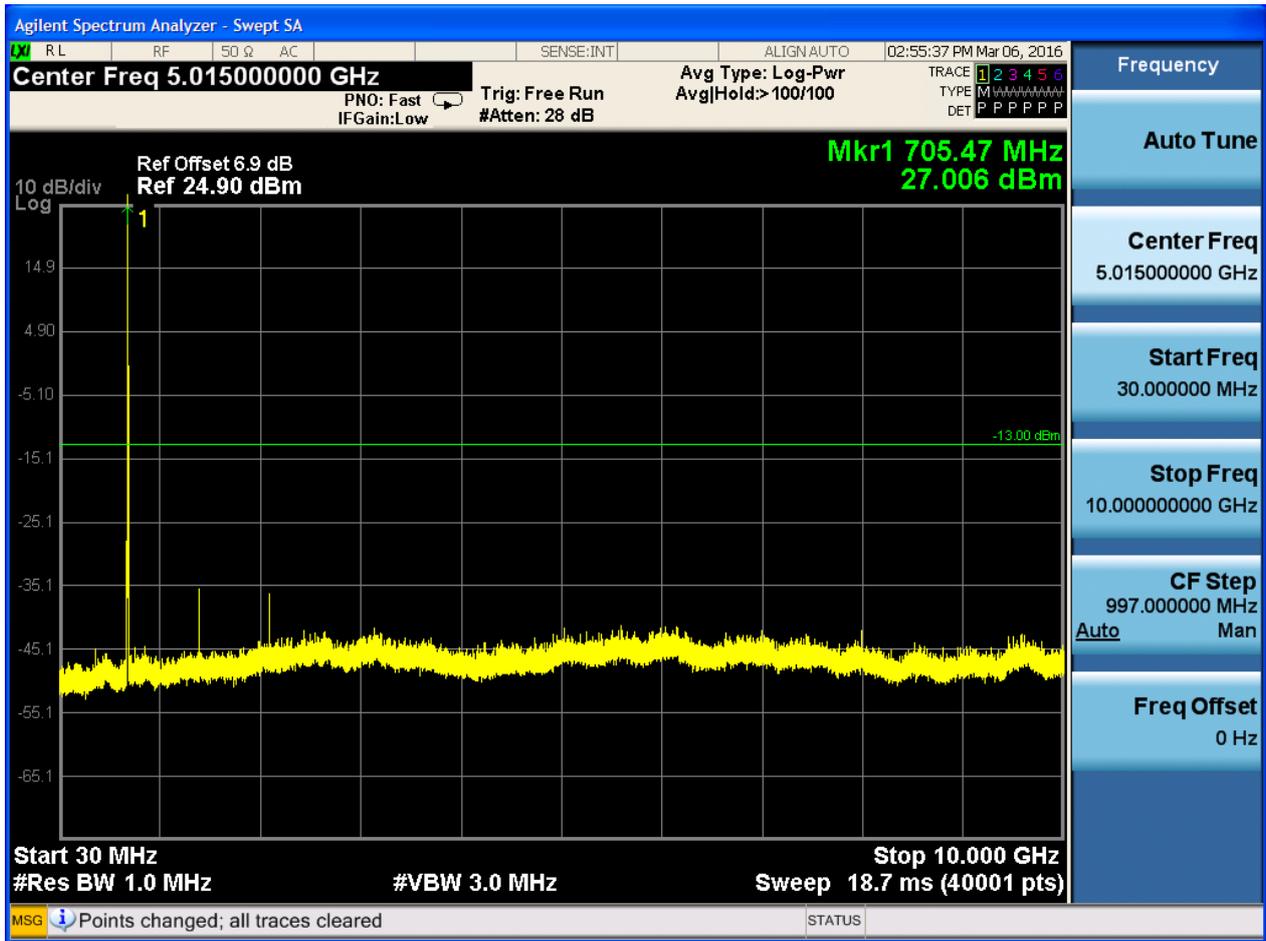


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



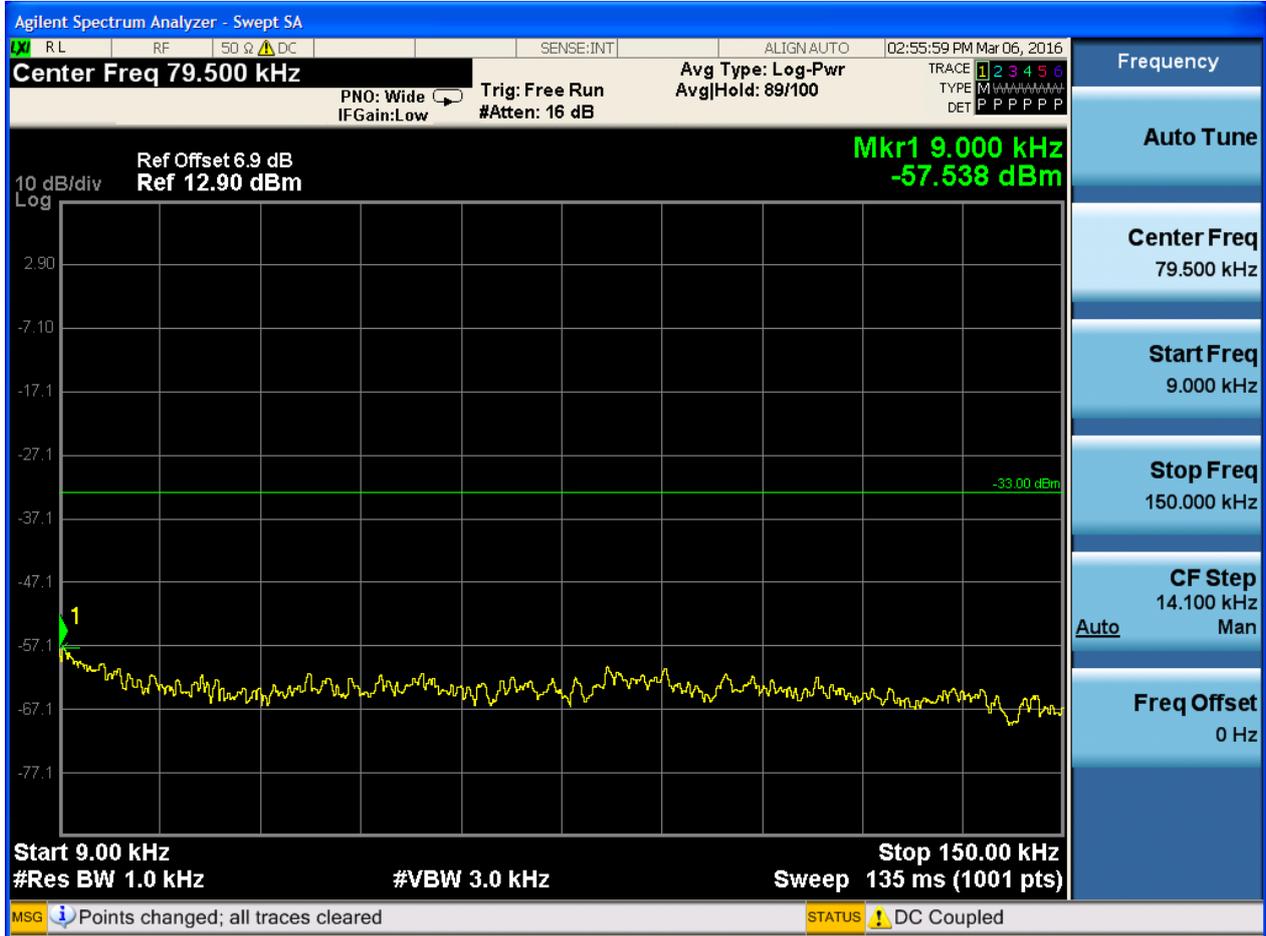


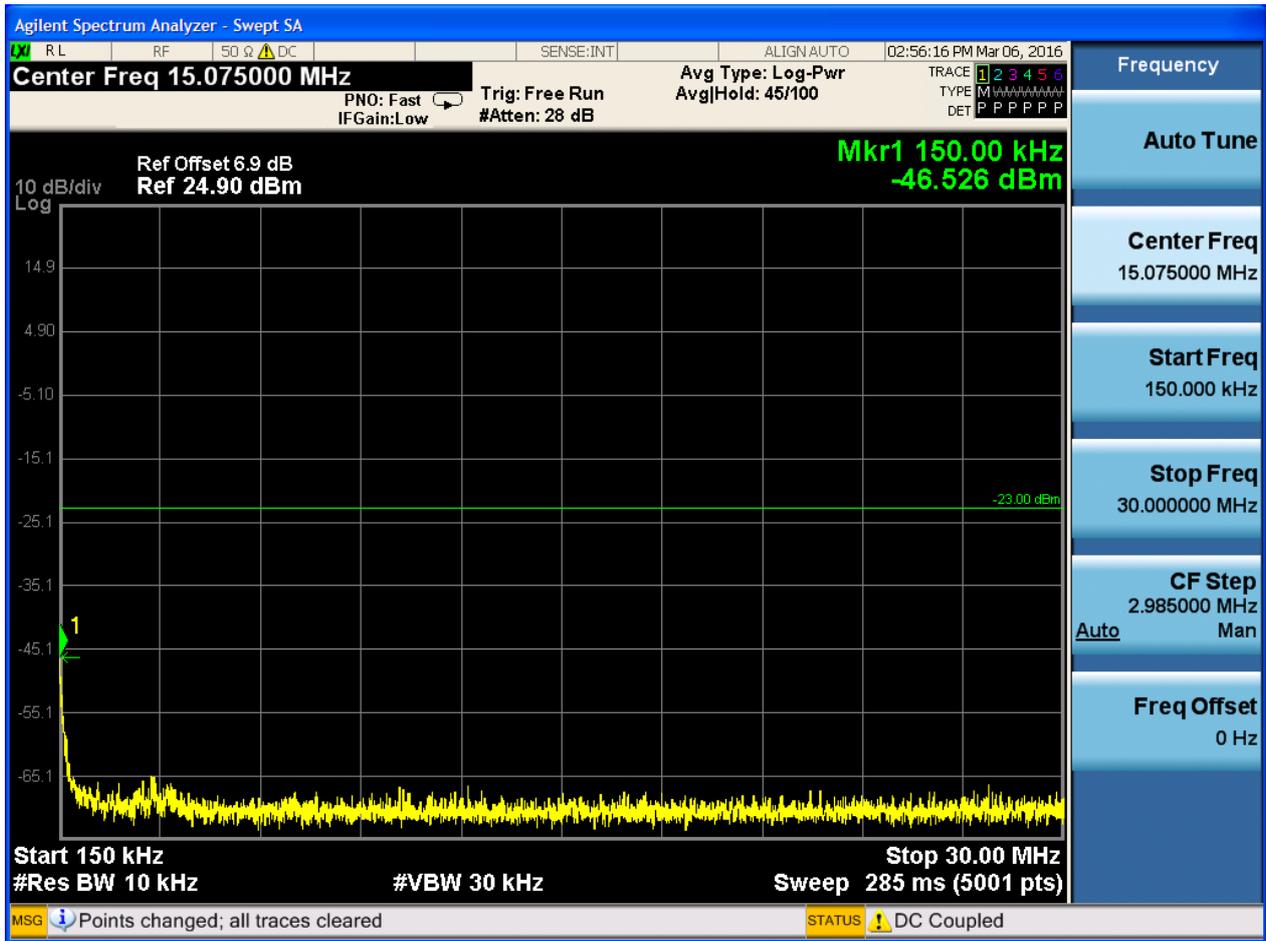


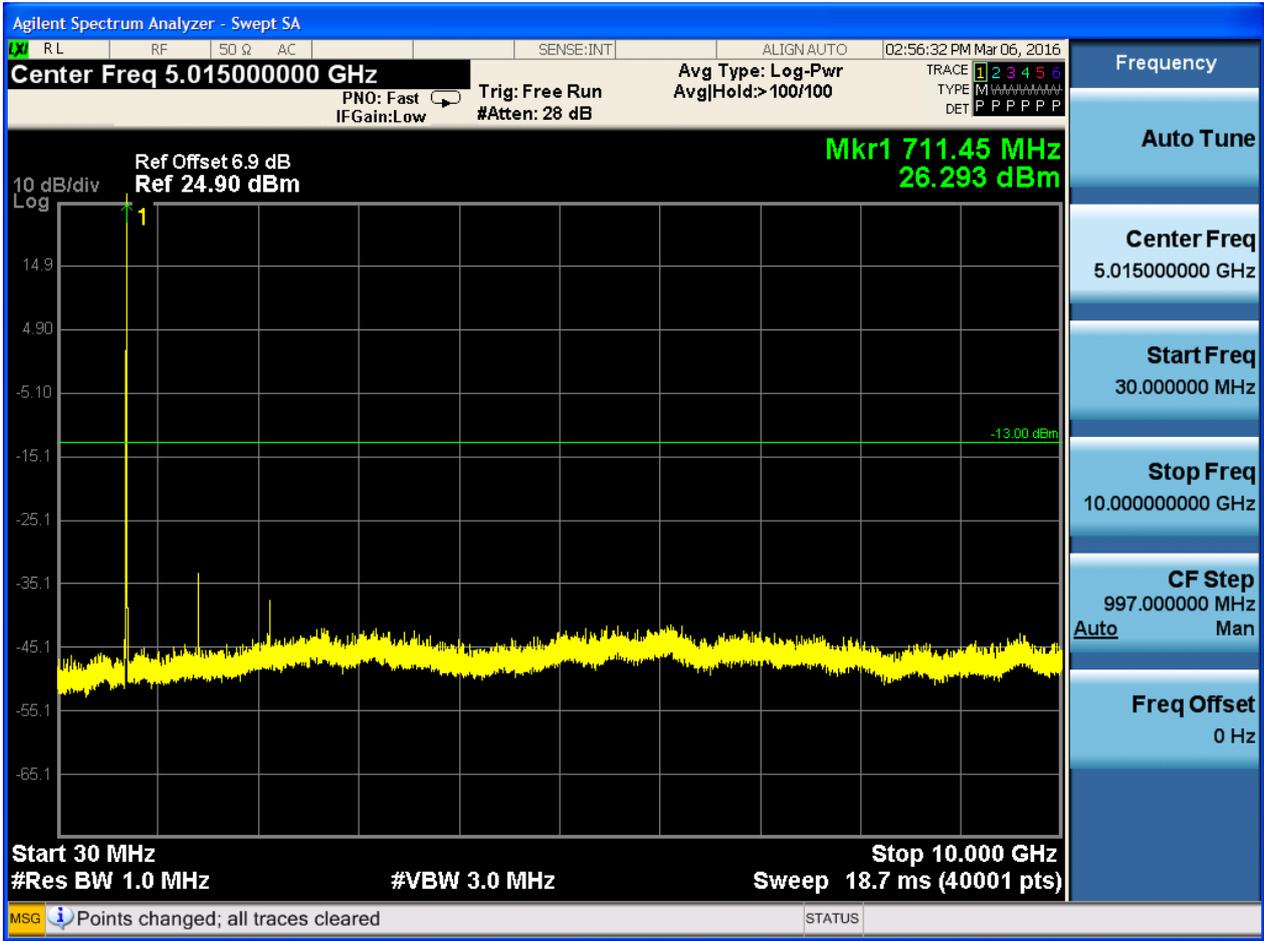


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





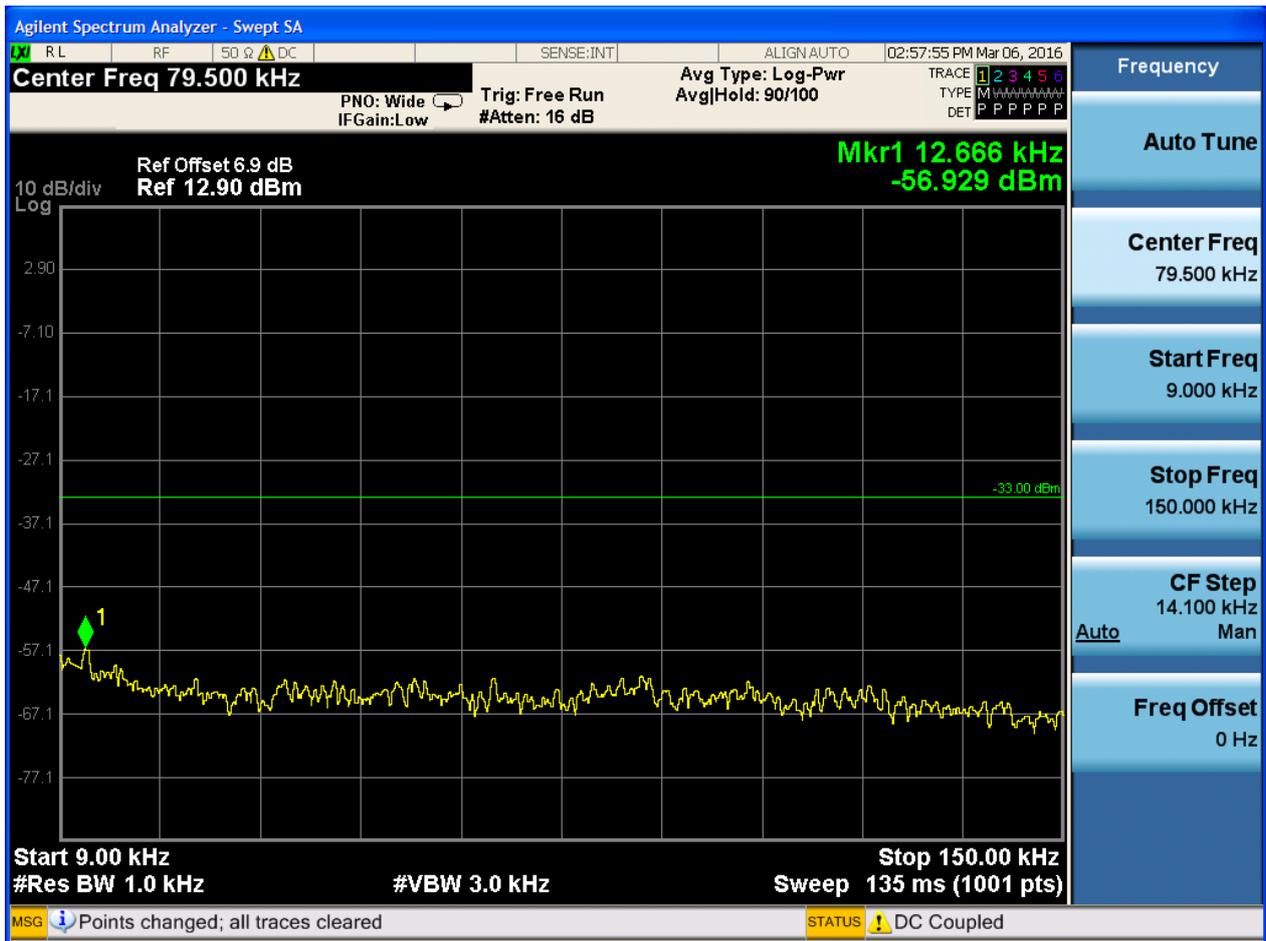


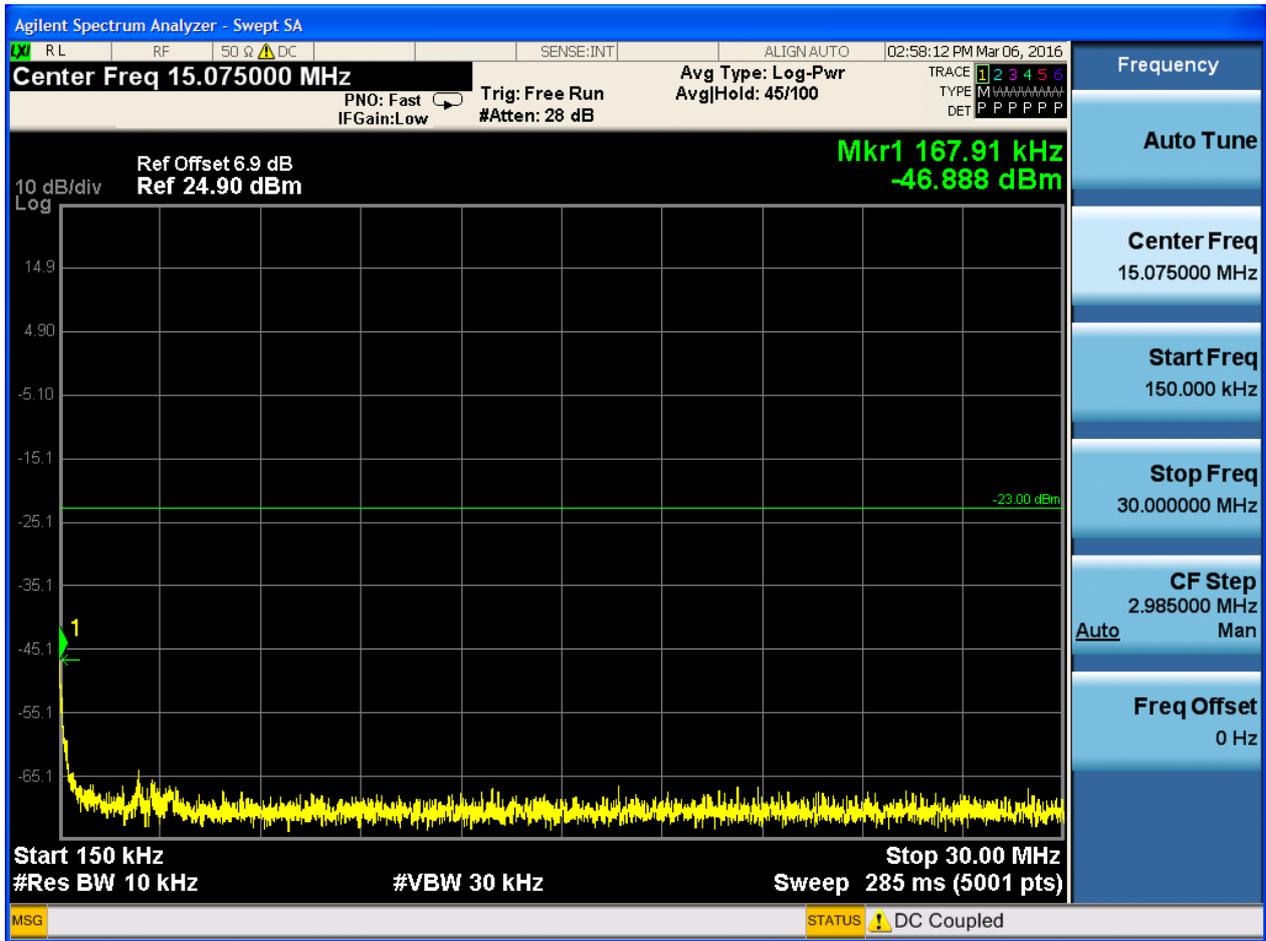


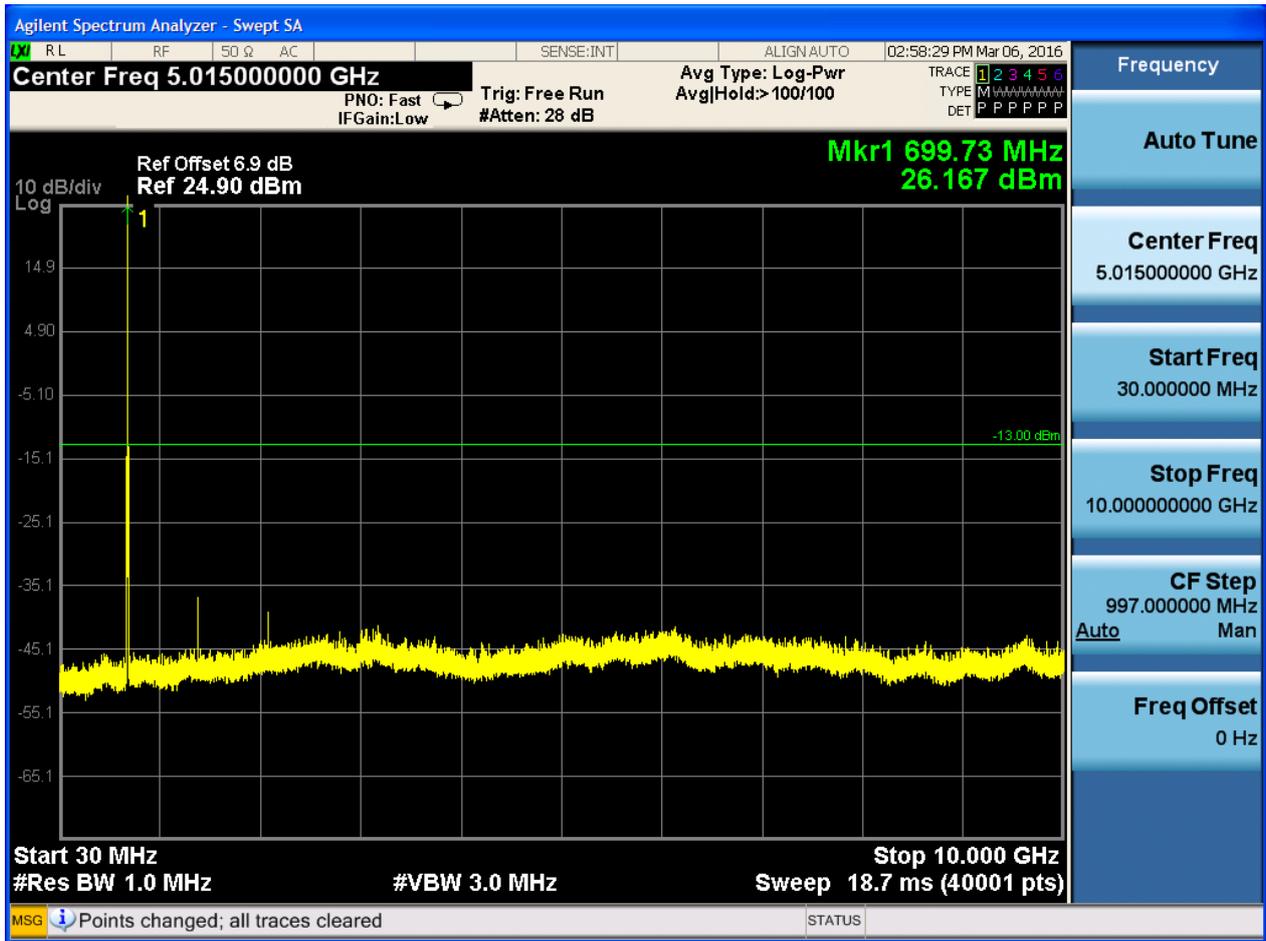
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



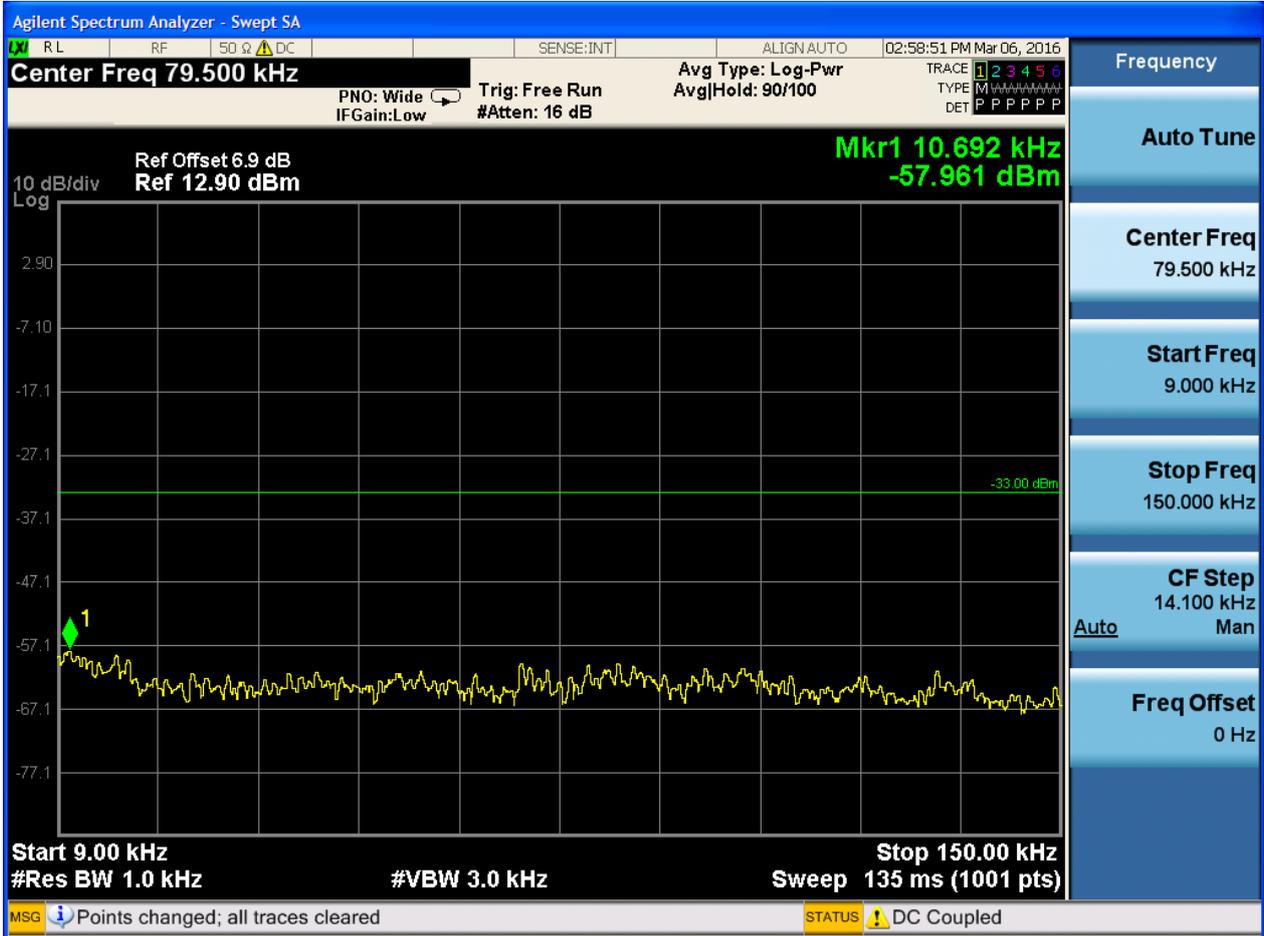


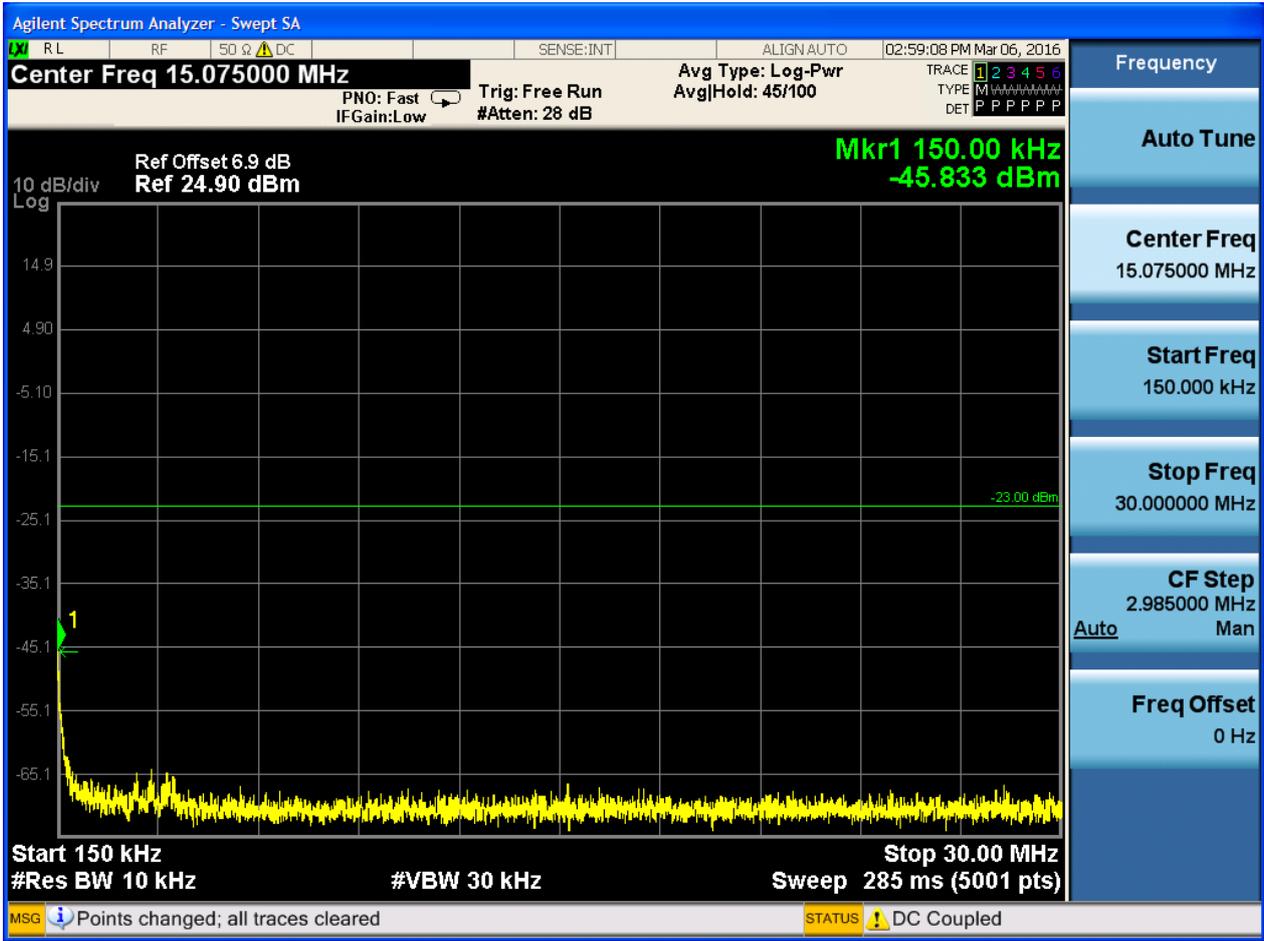


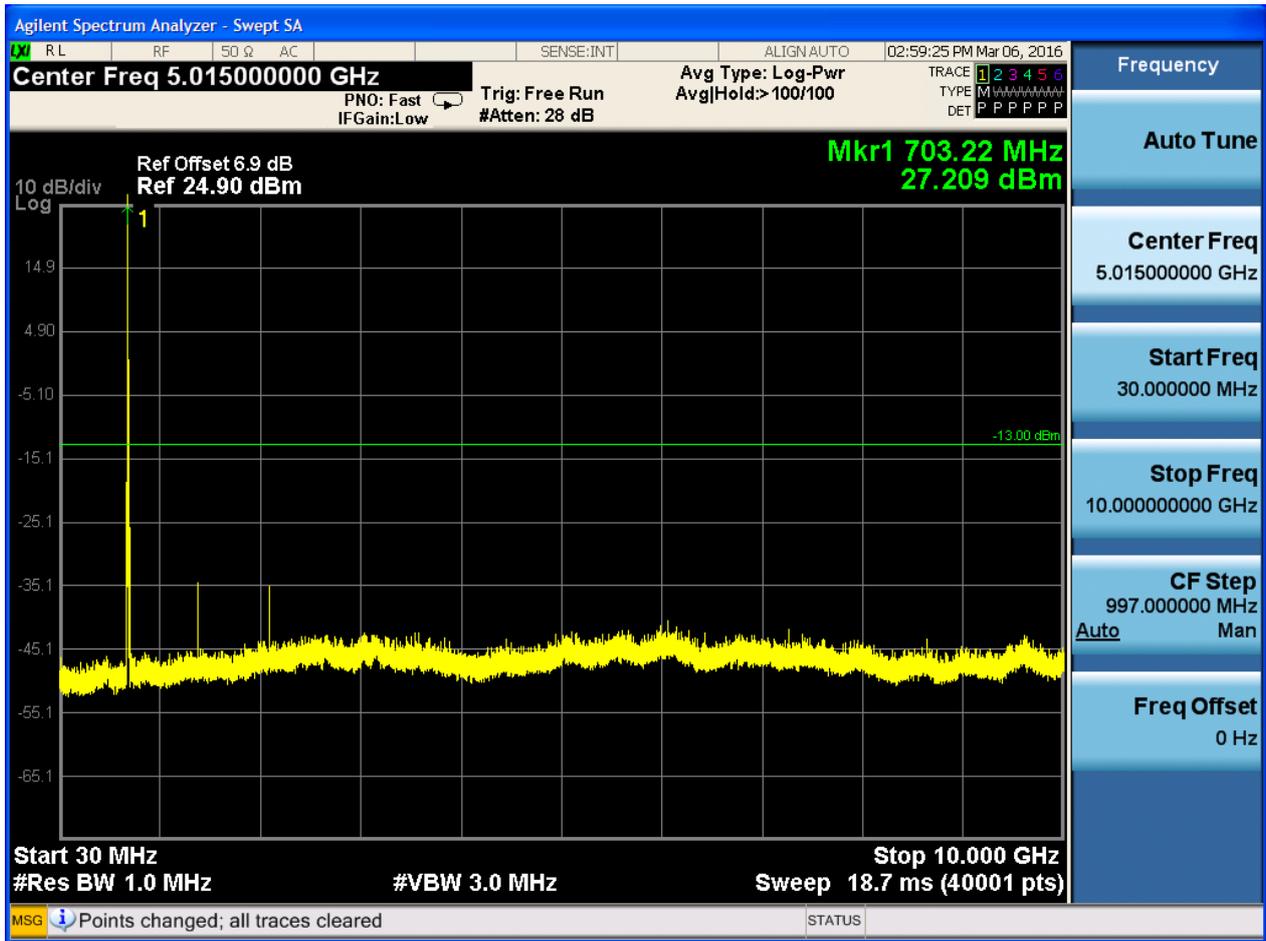


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



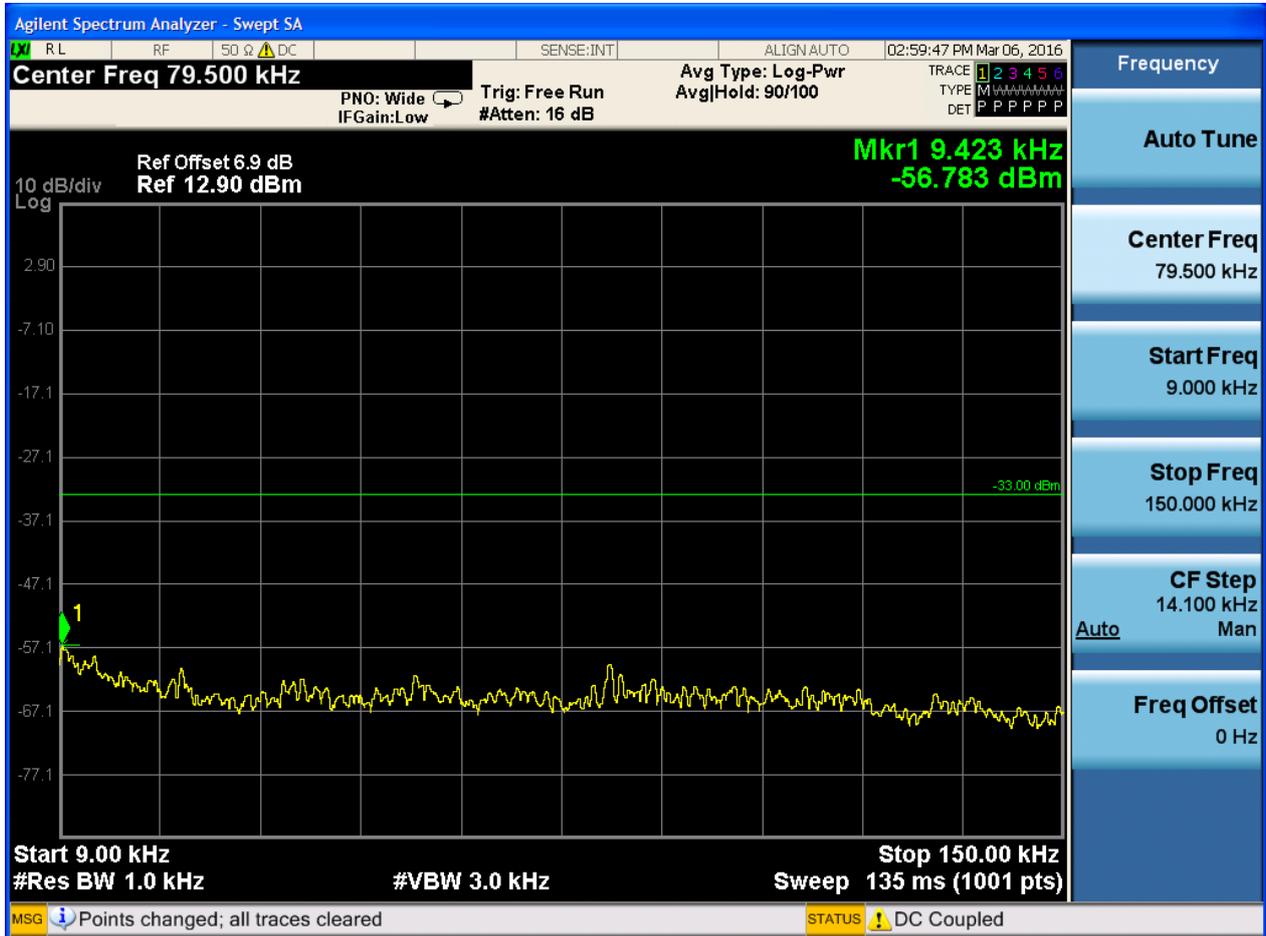


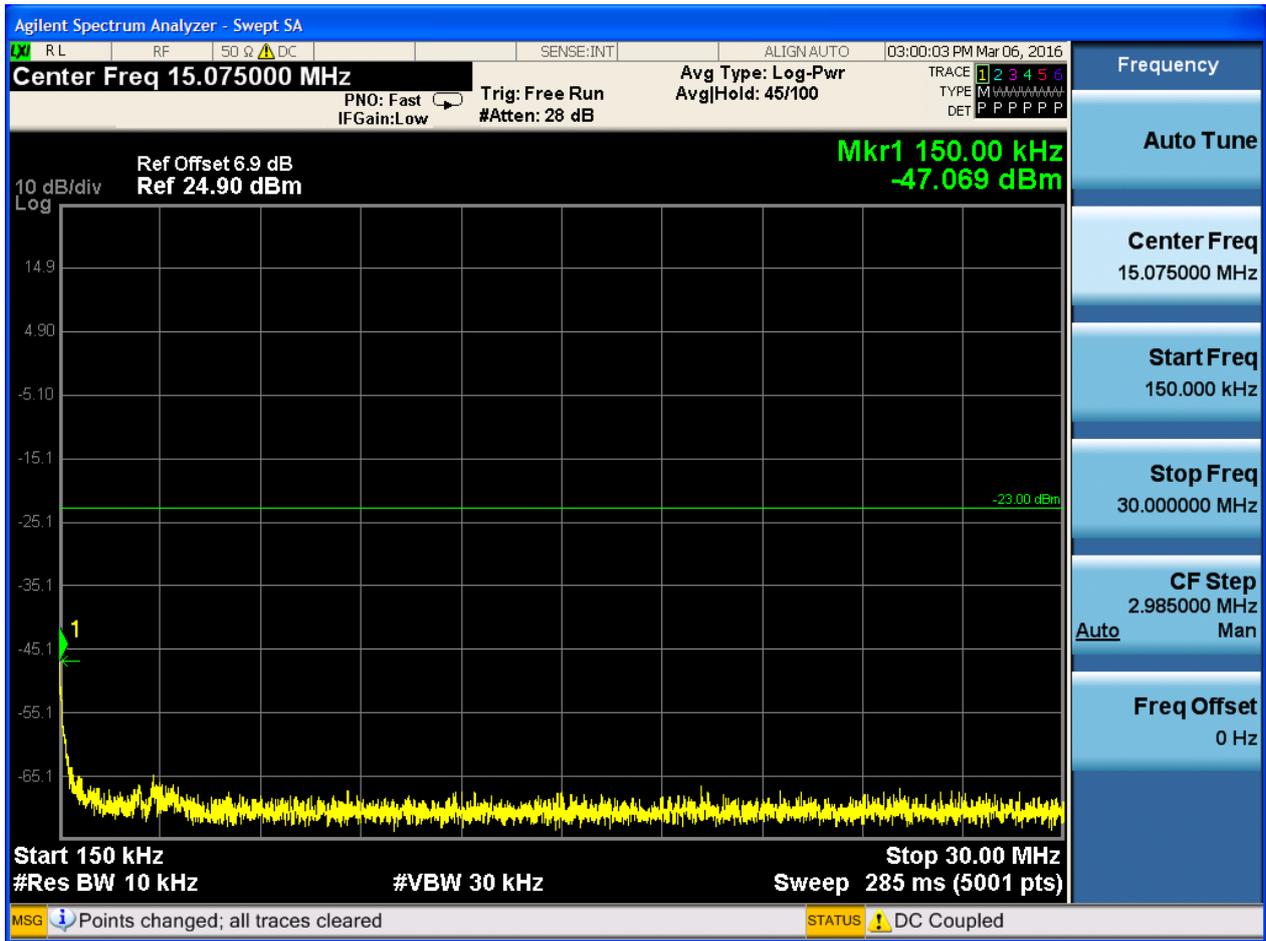


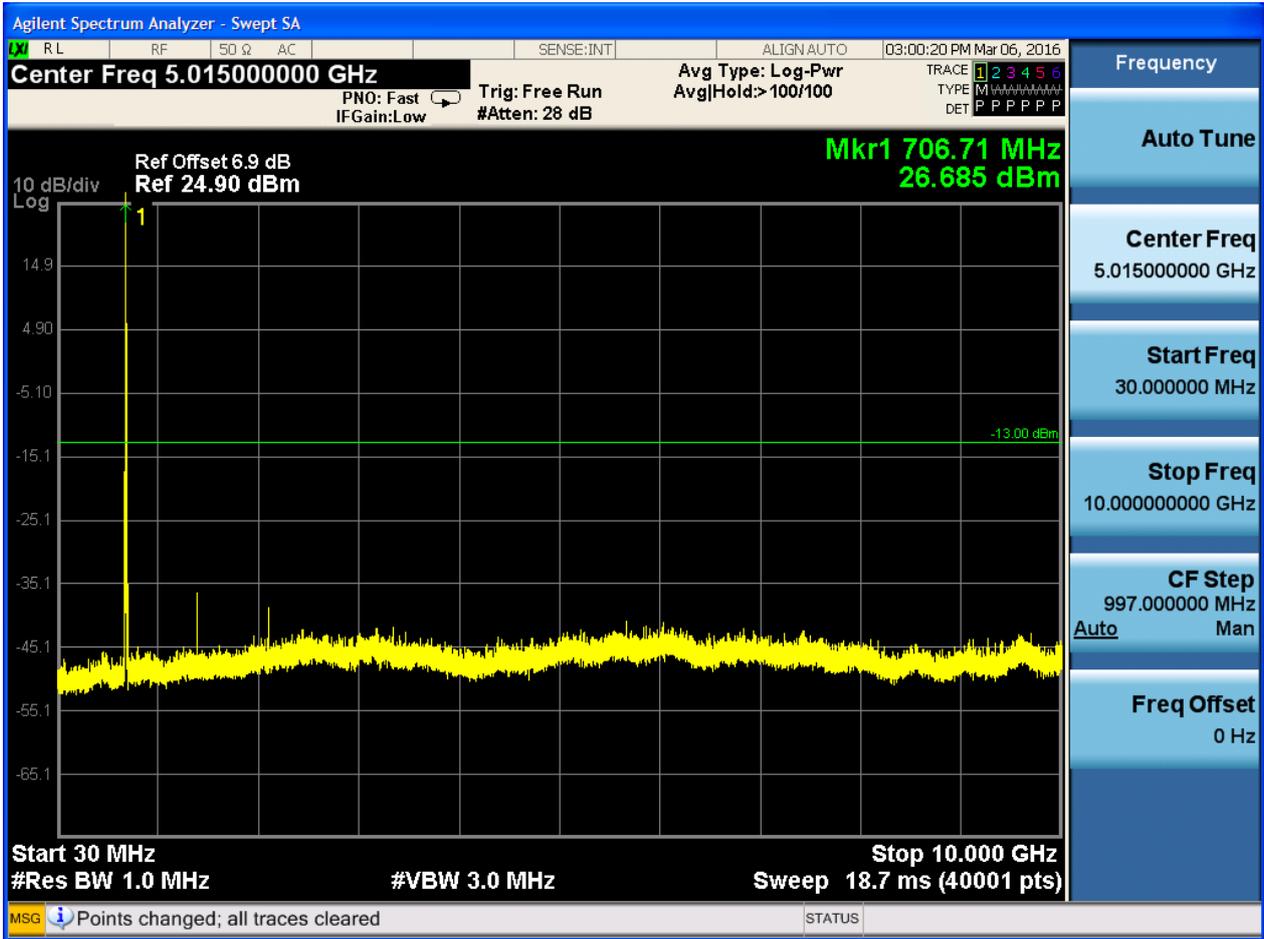


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







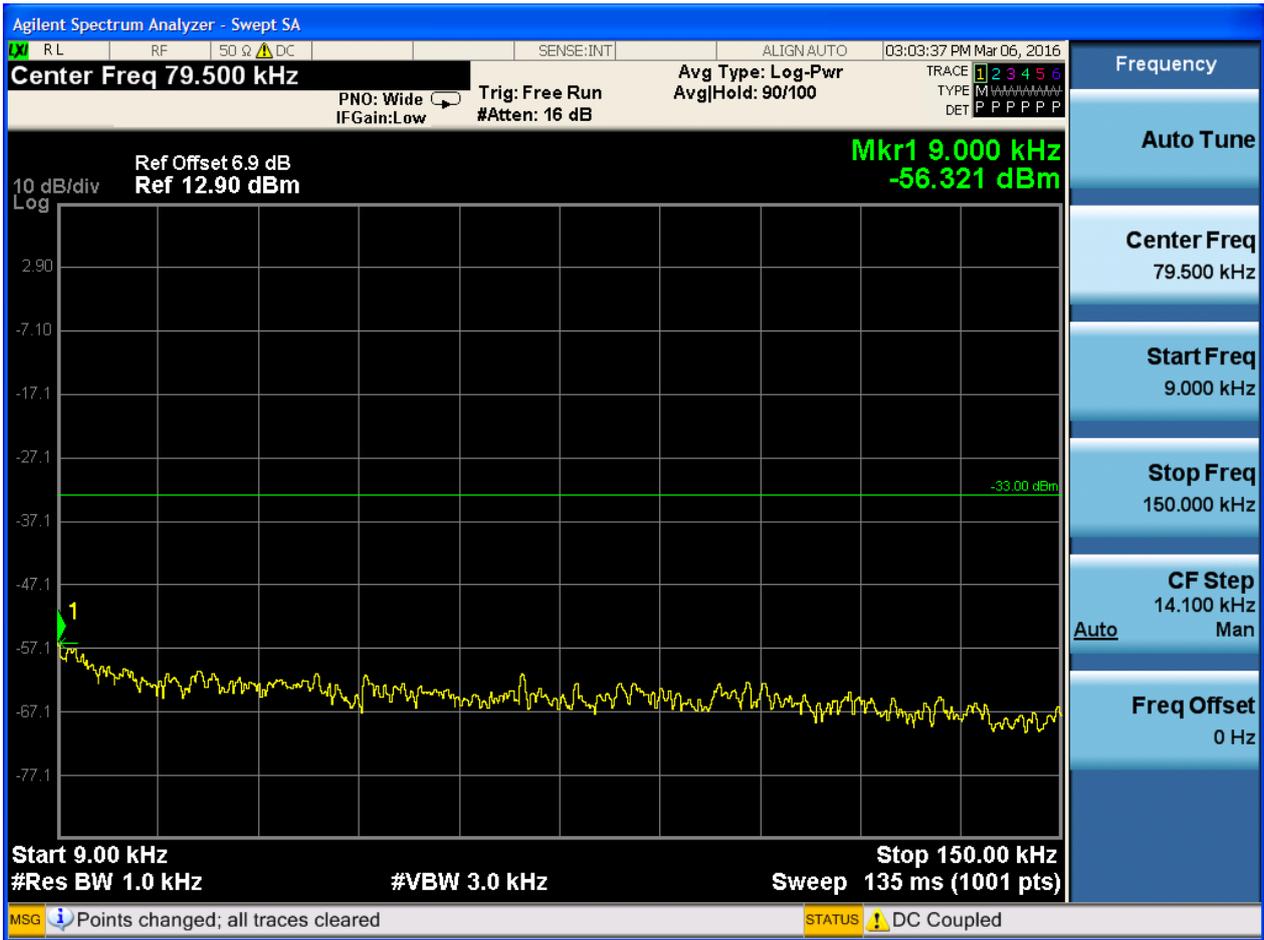


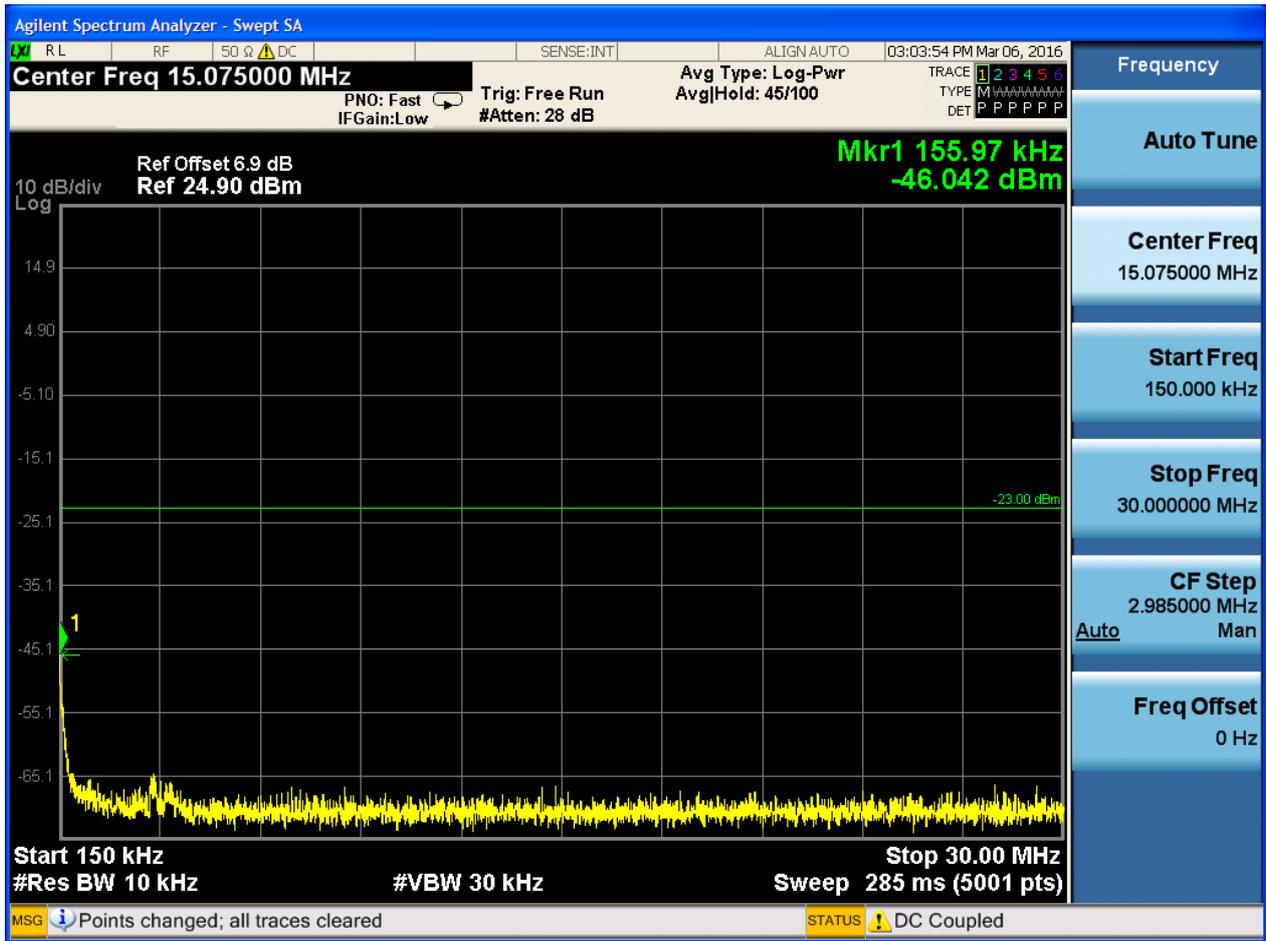
6.1.1.2 Test Mode = LTE/TM2

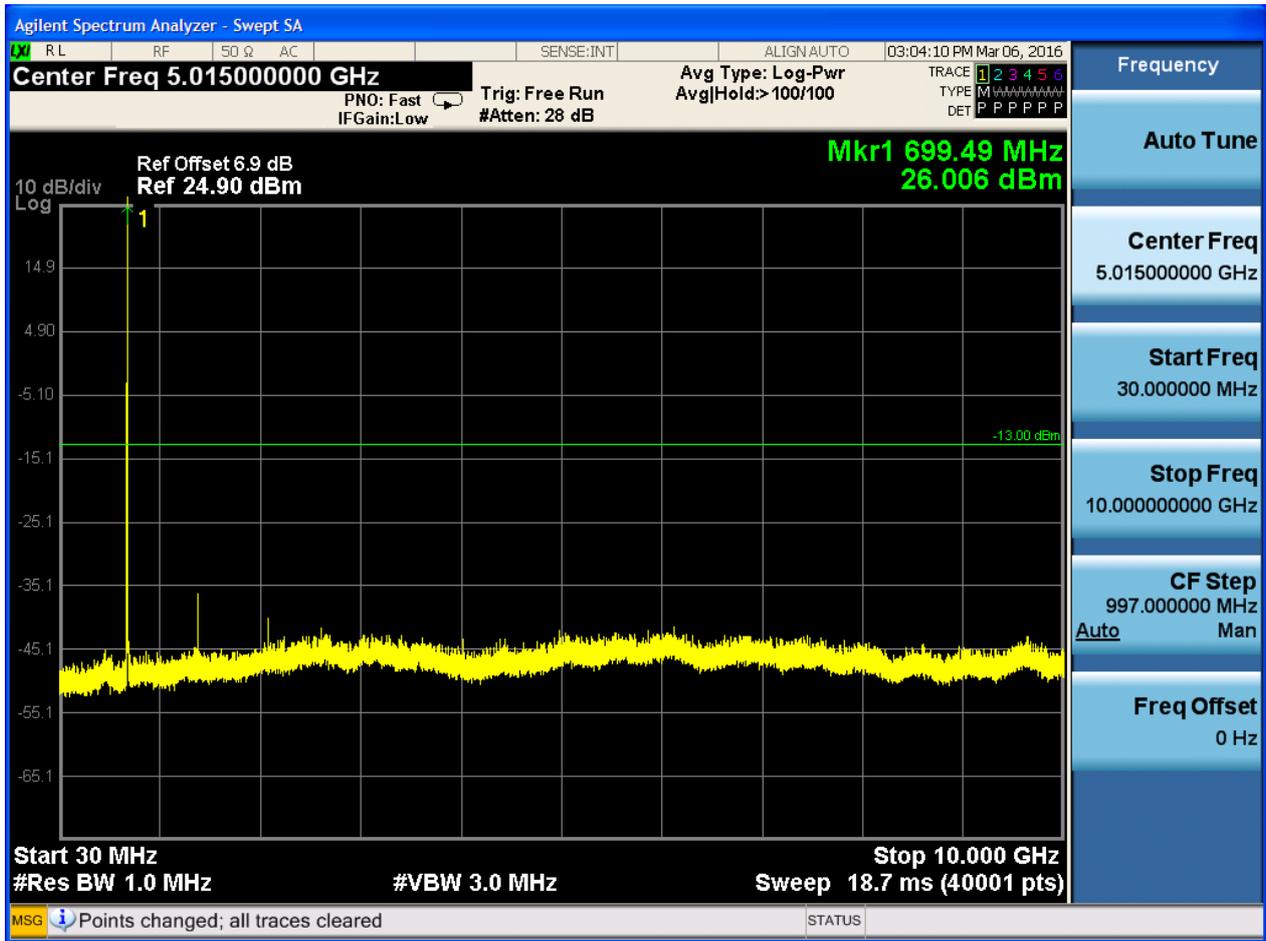
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



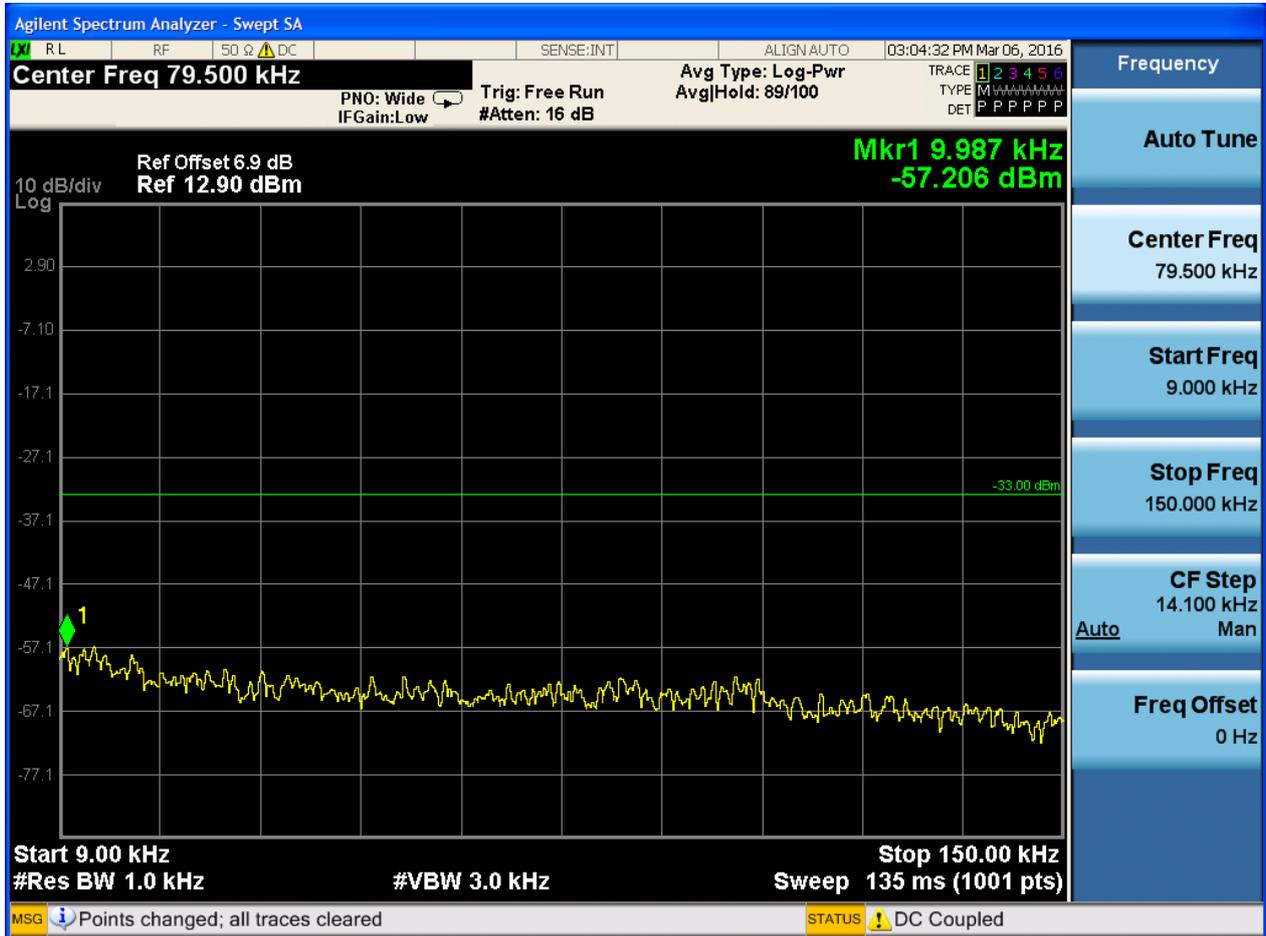




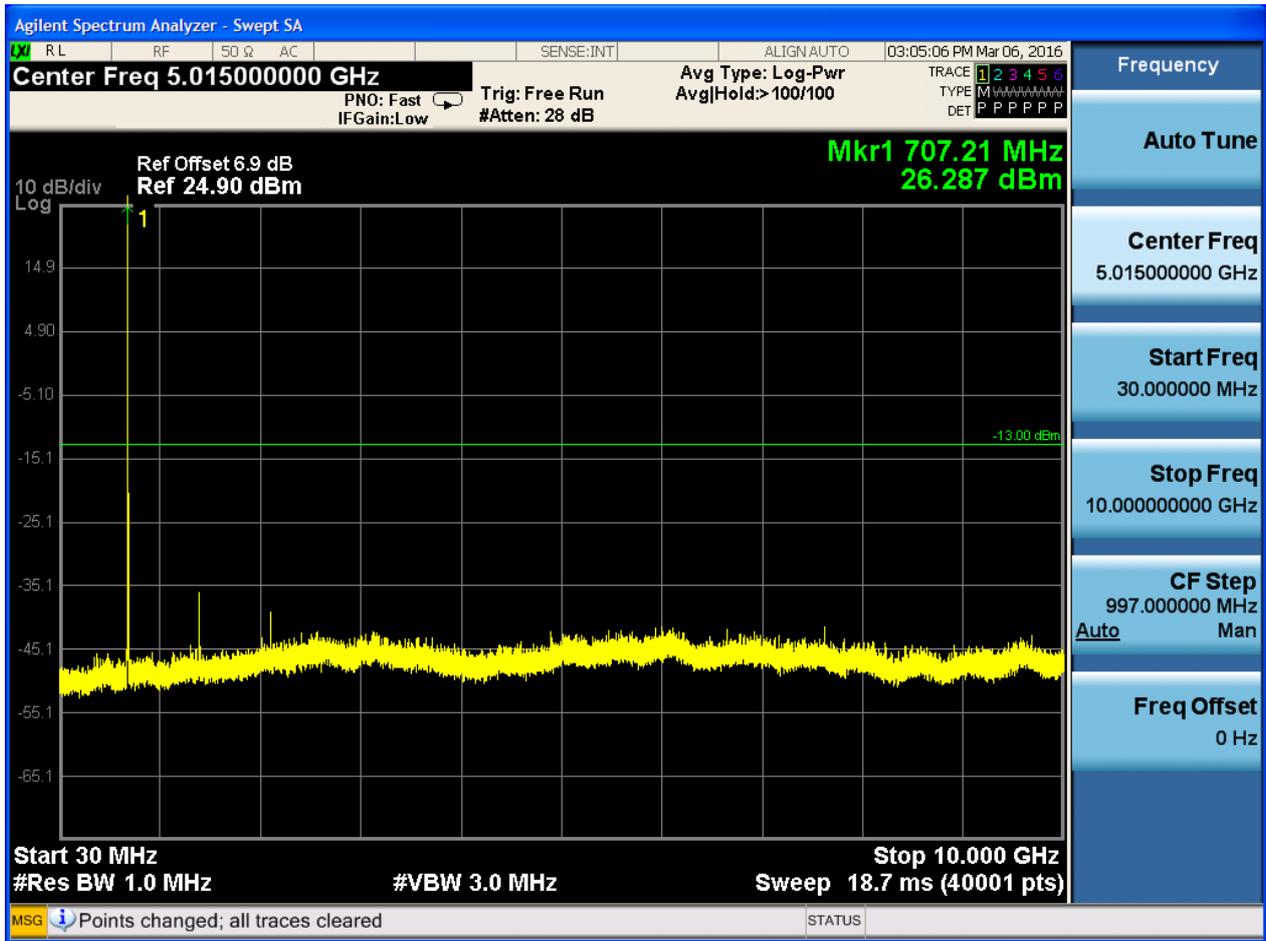


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



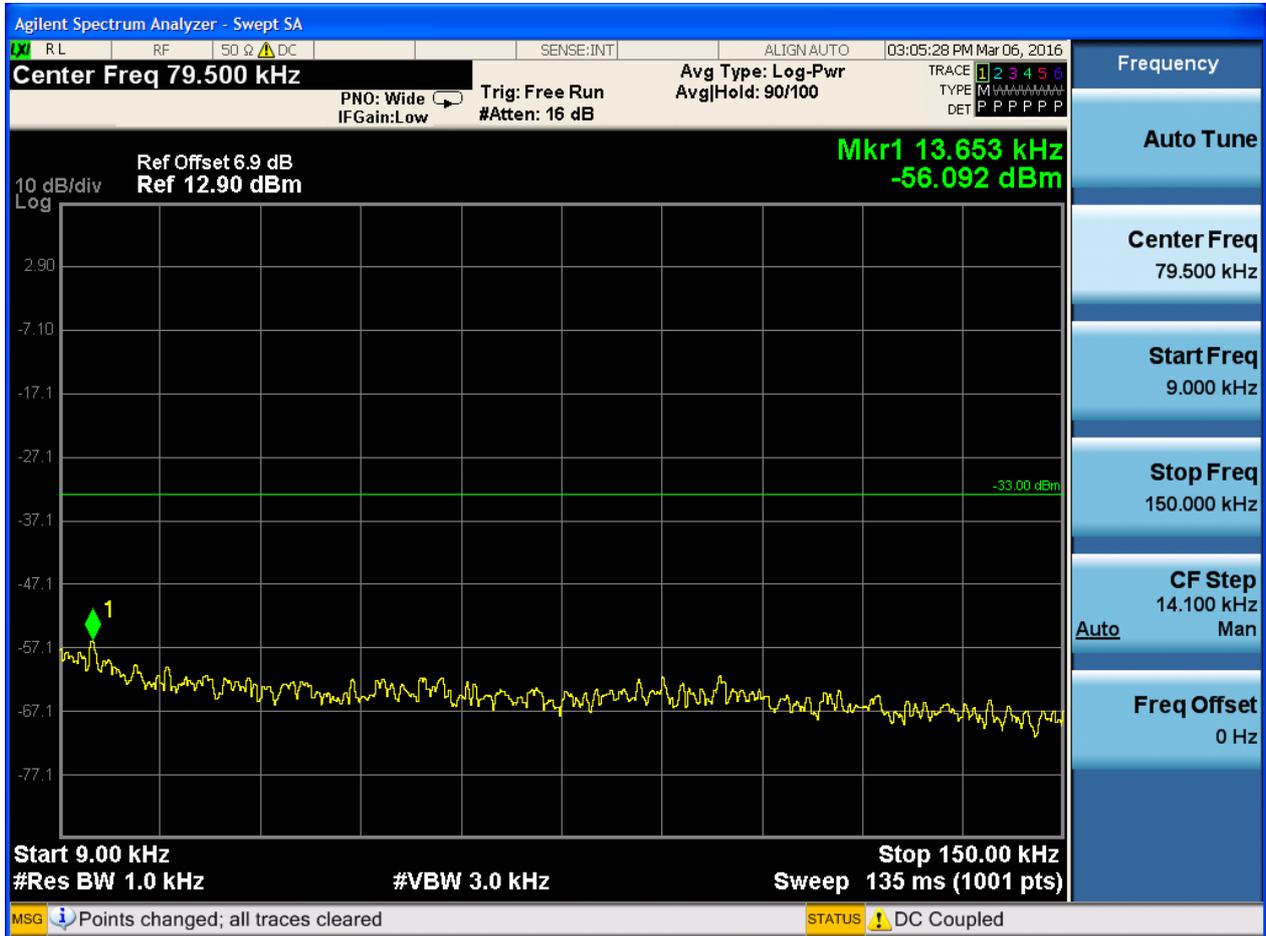


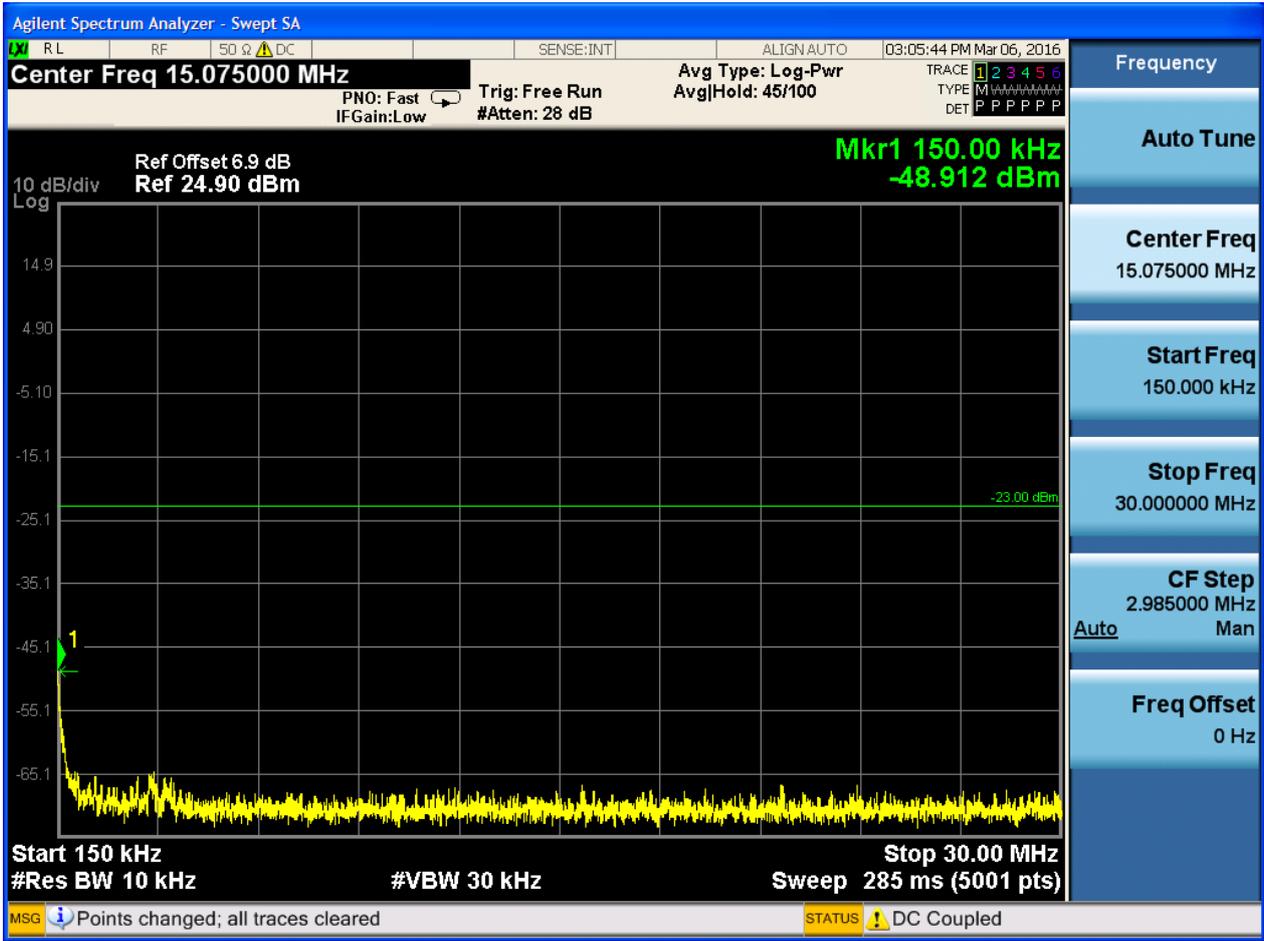


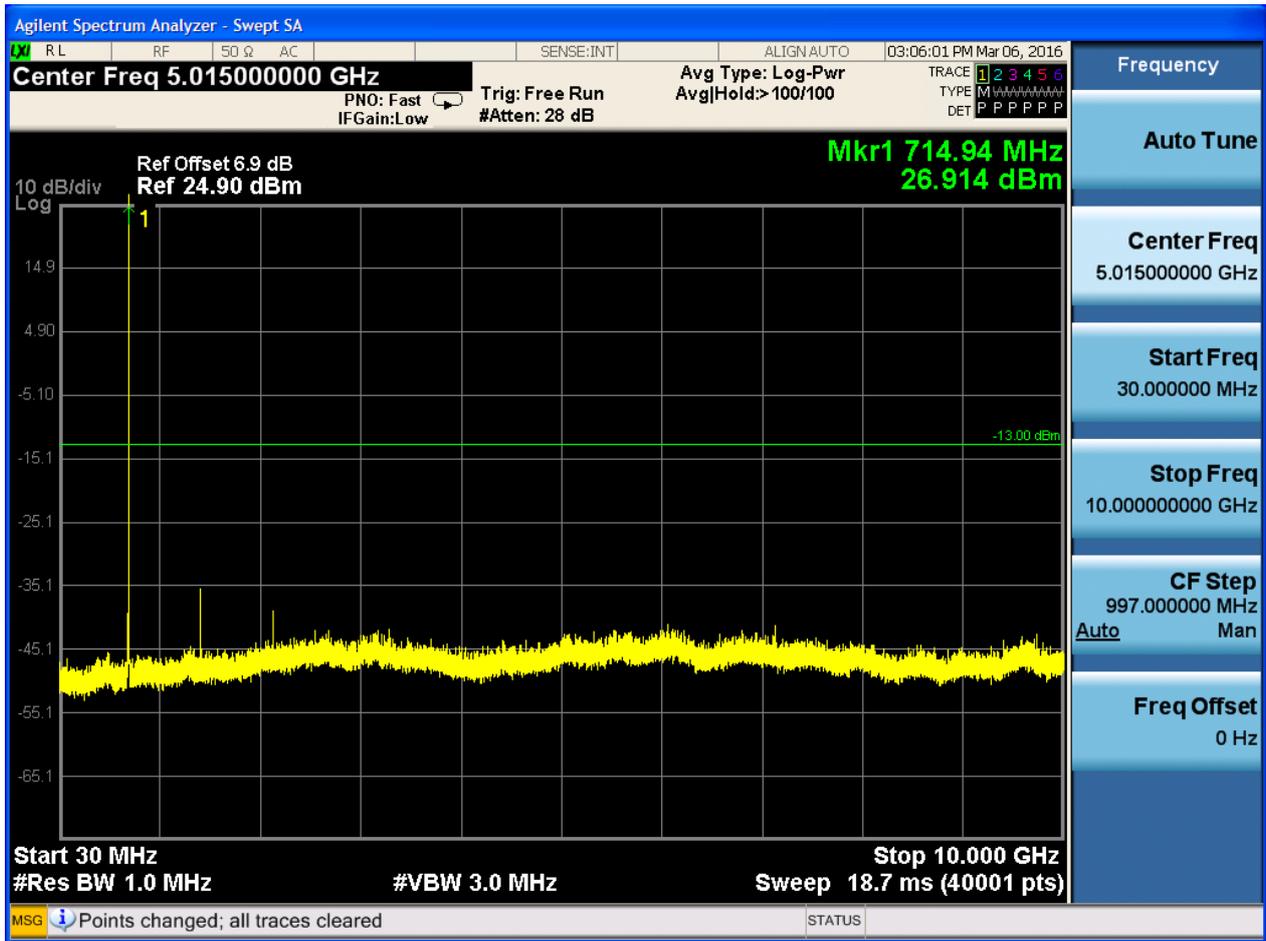


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





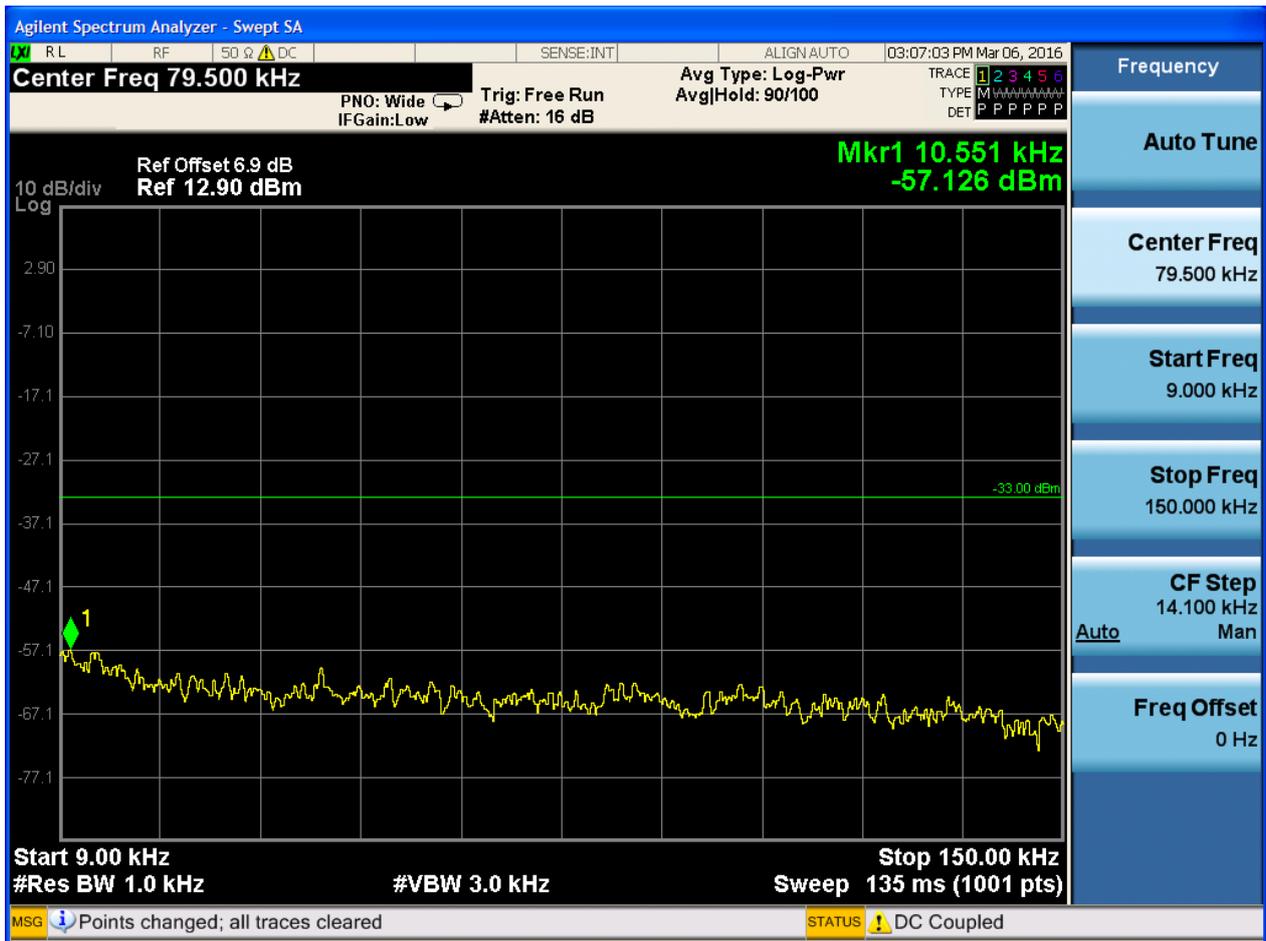


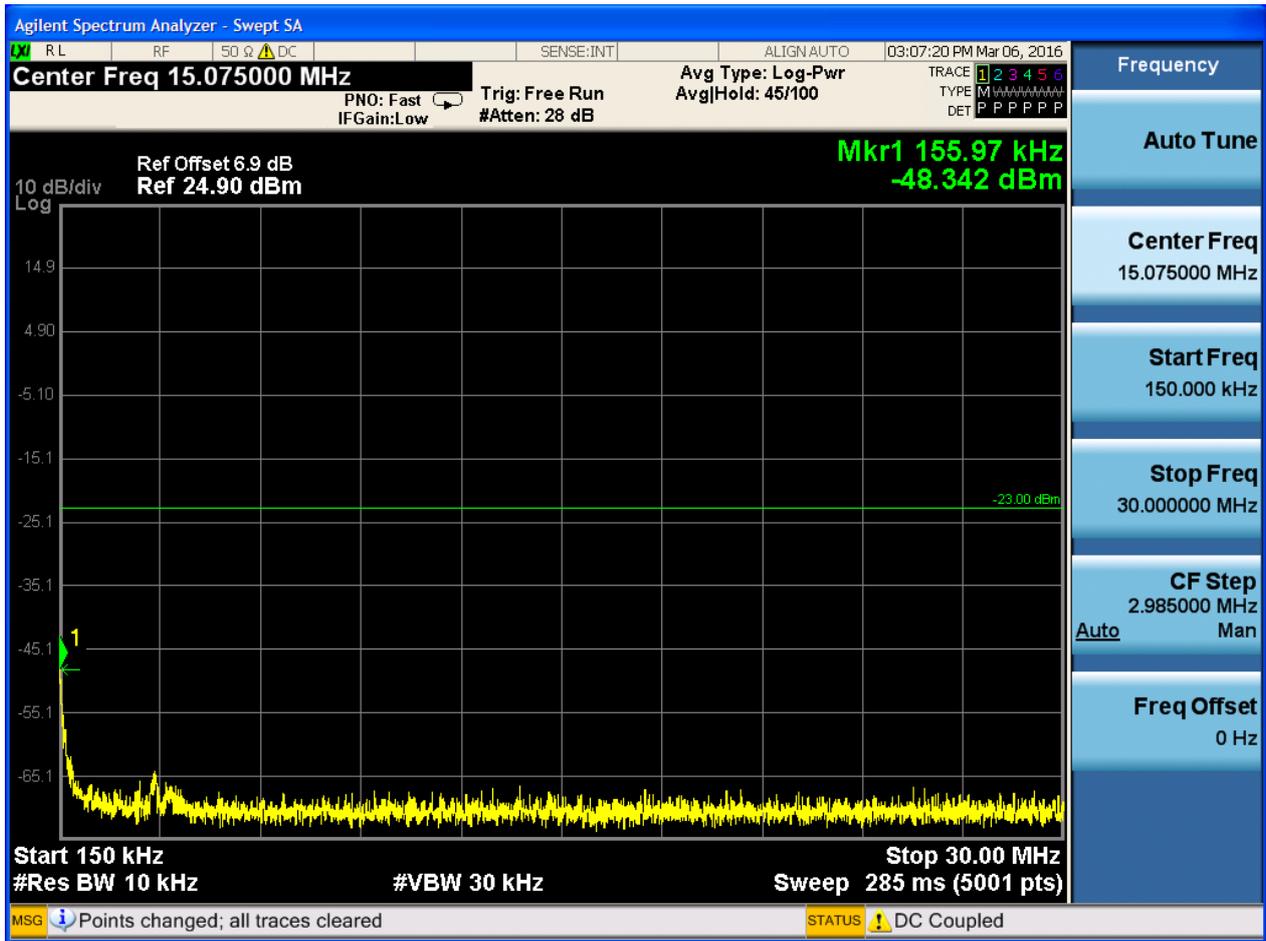


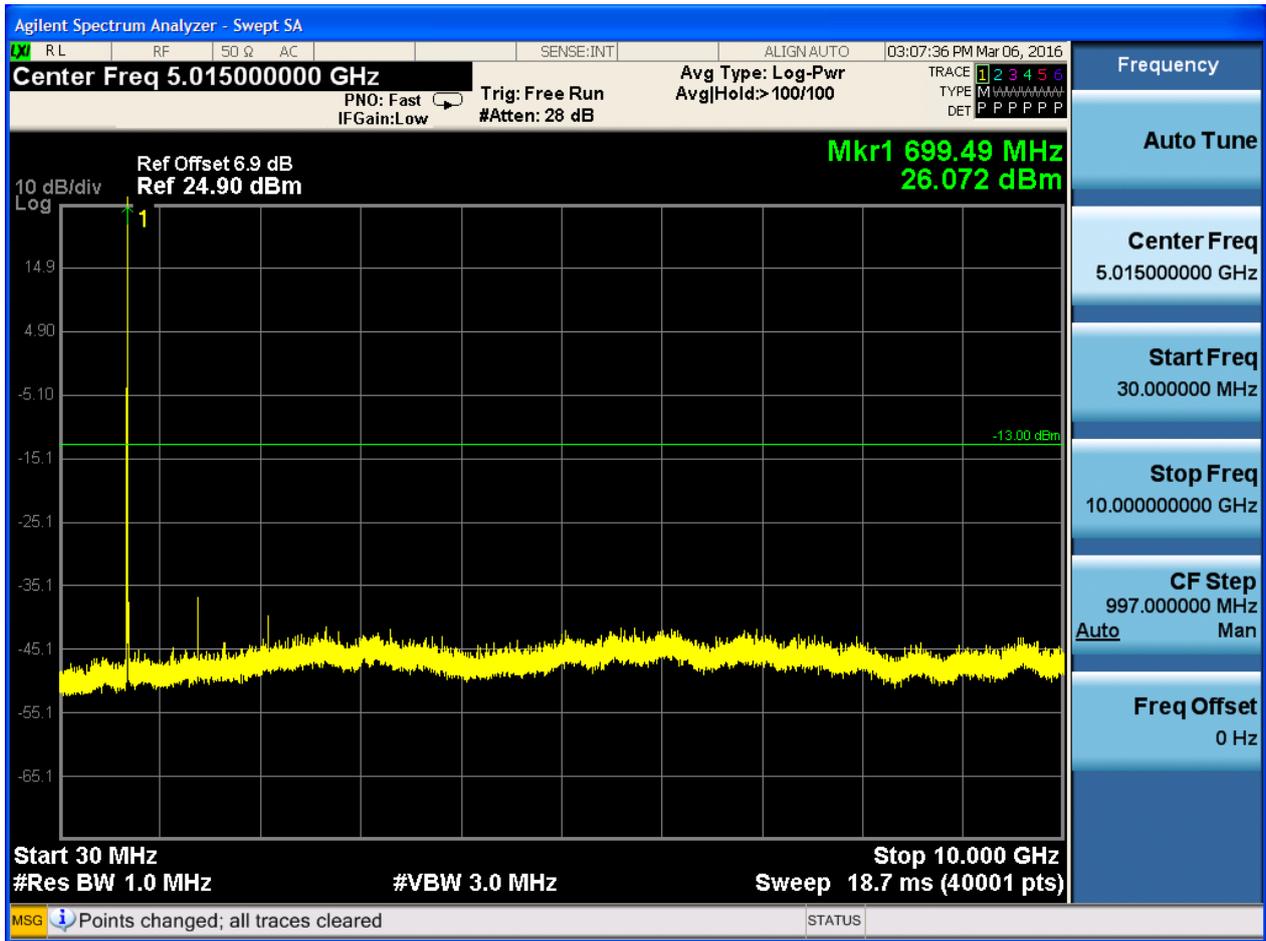
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



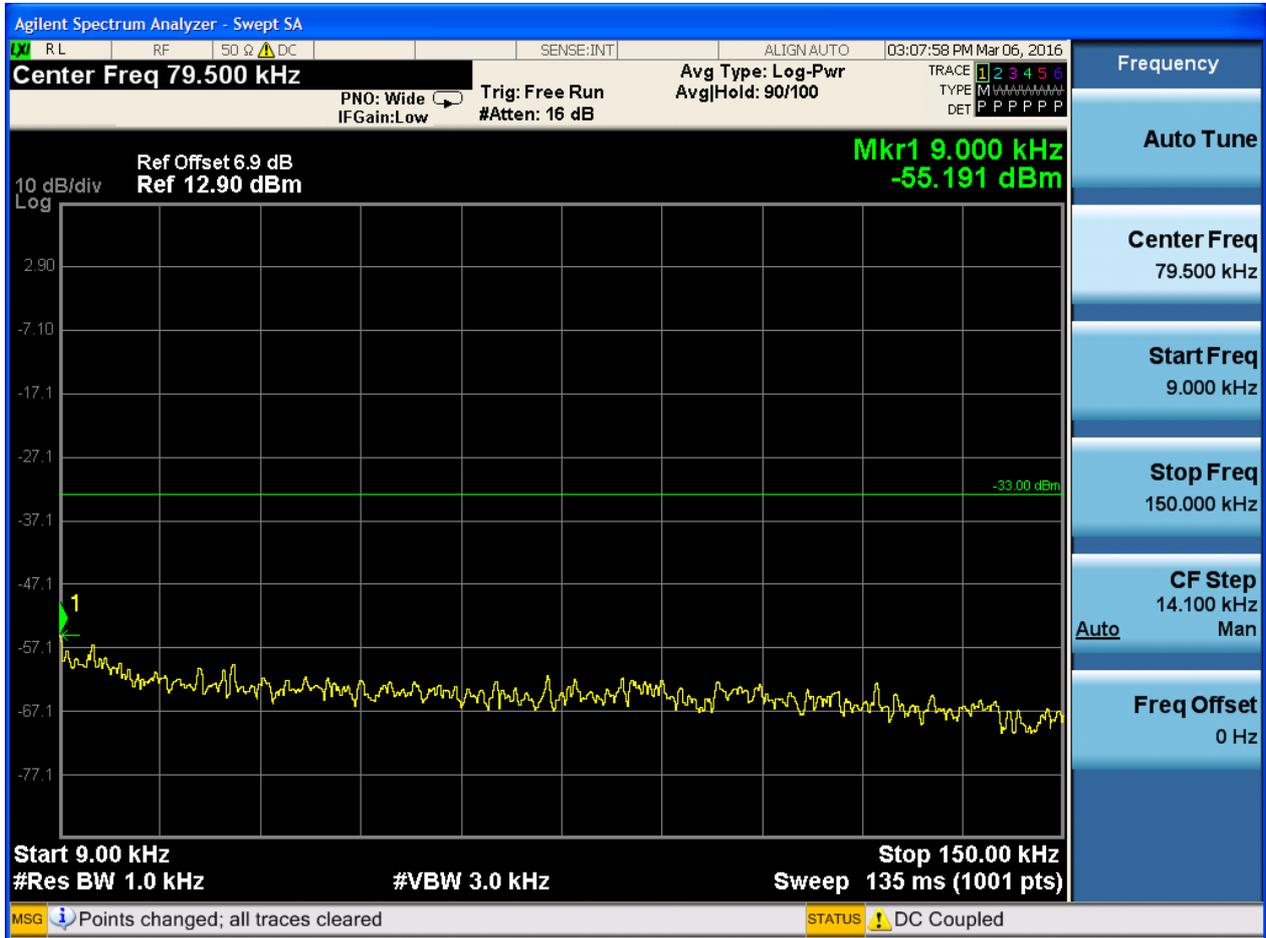


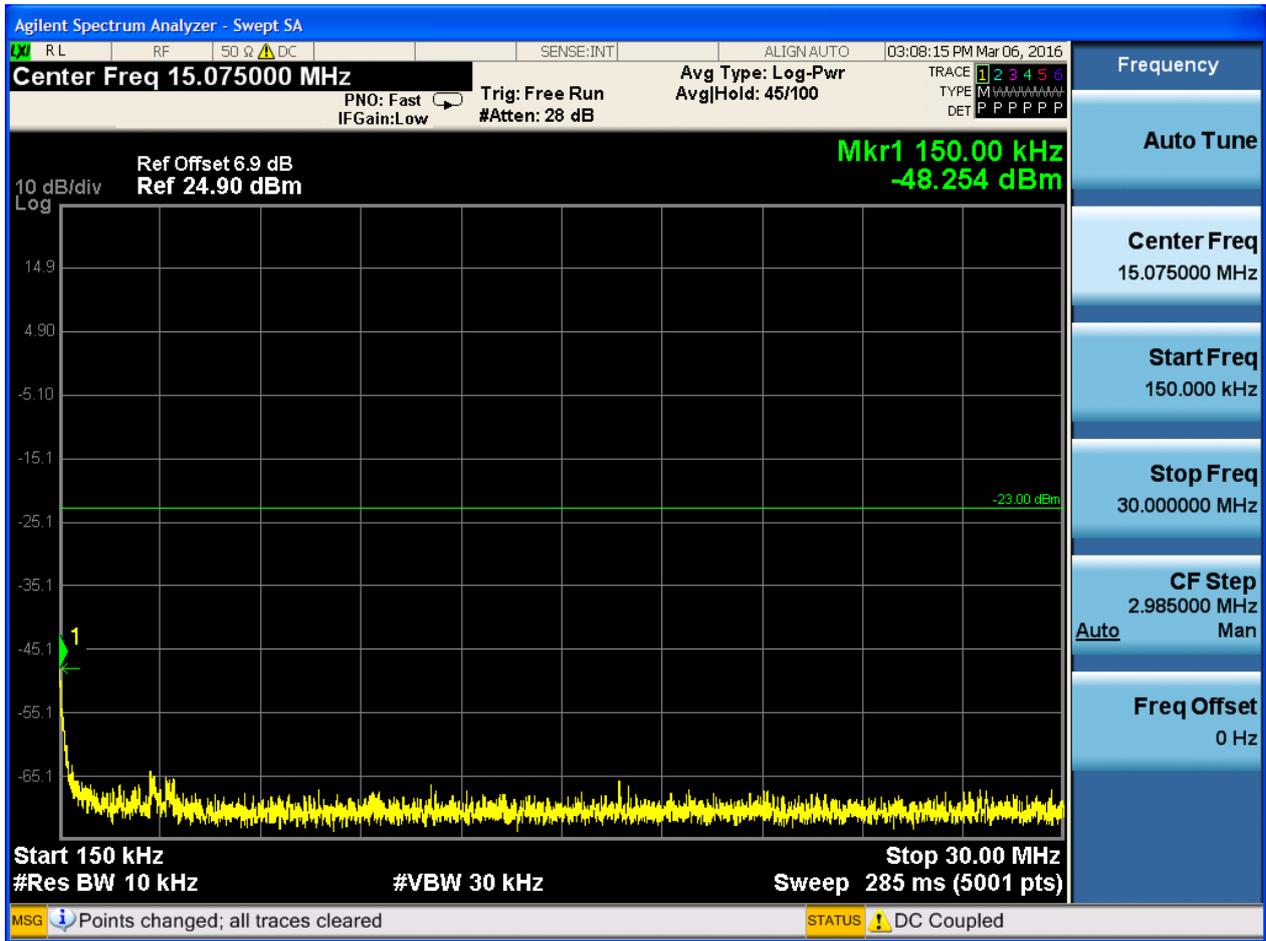


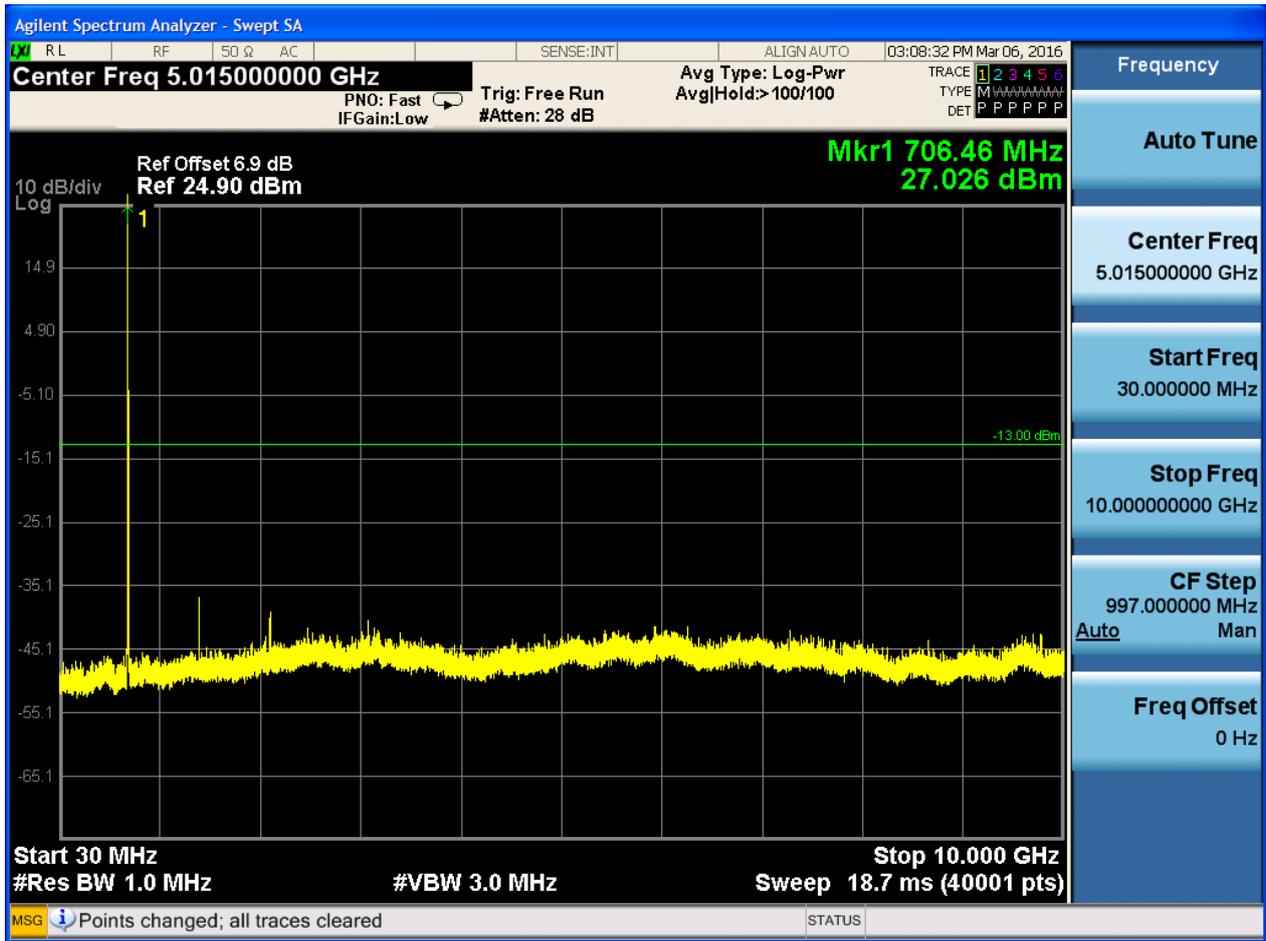


6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0



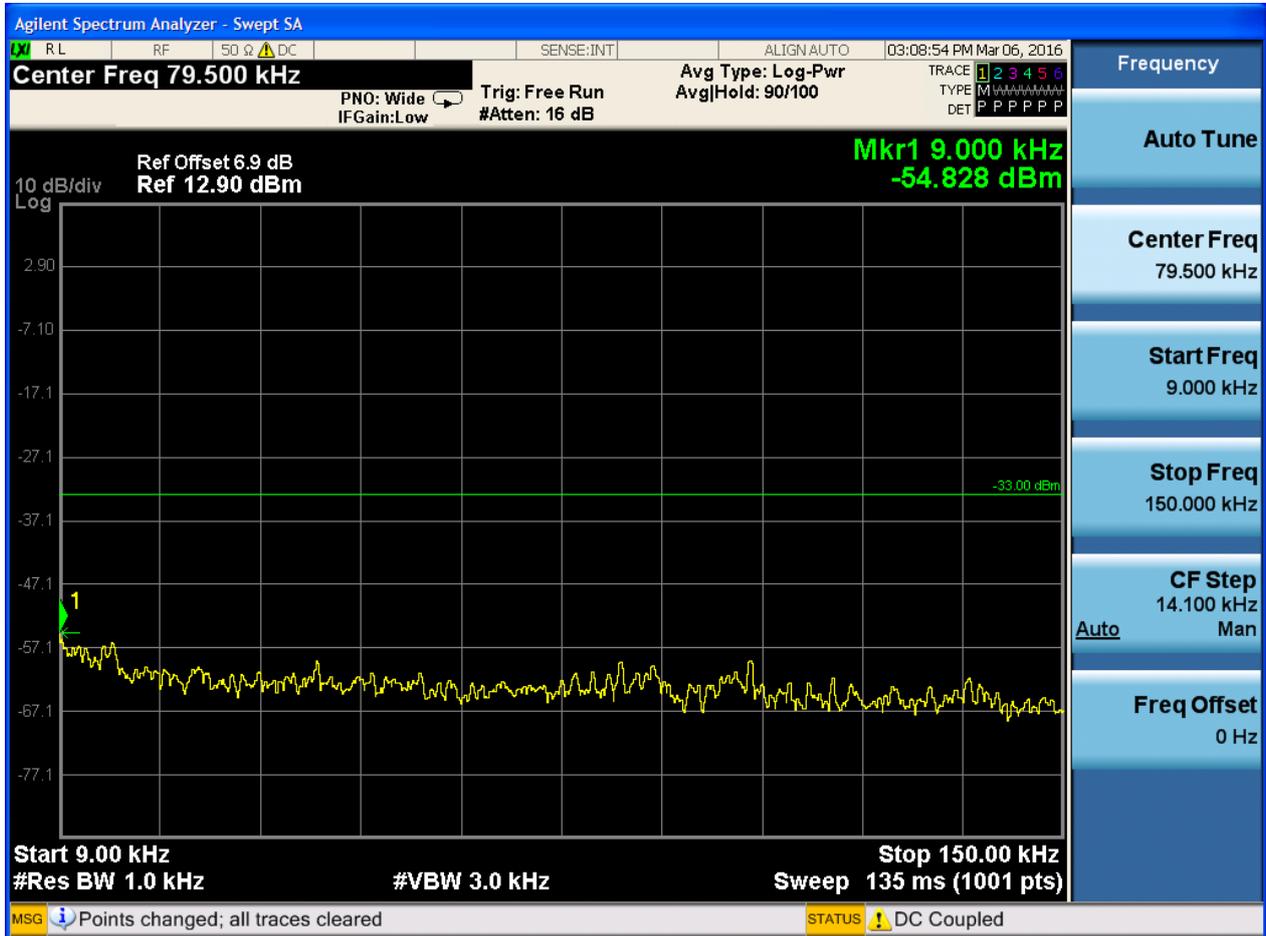




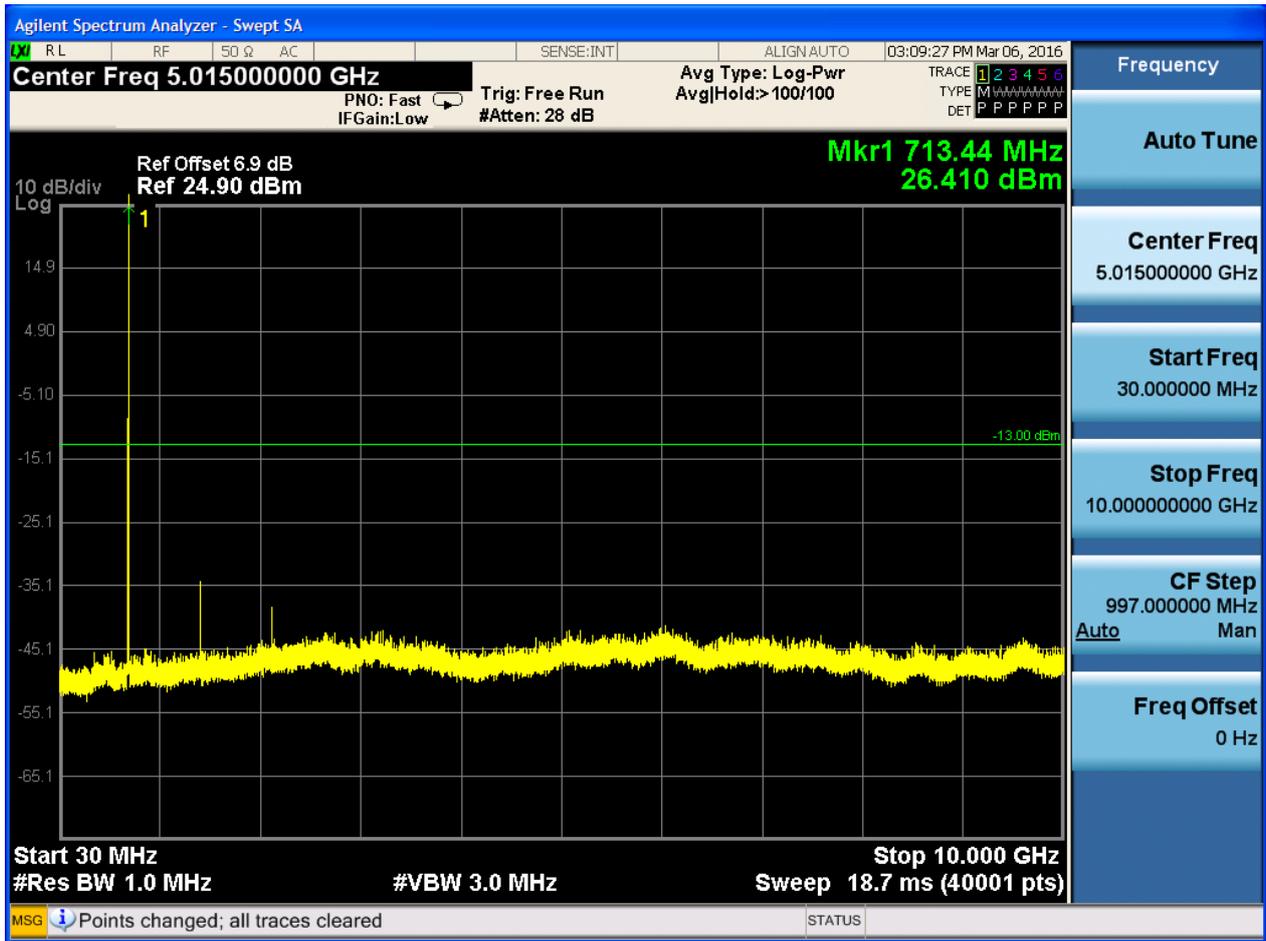


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





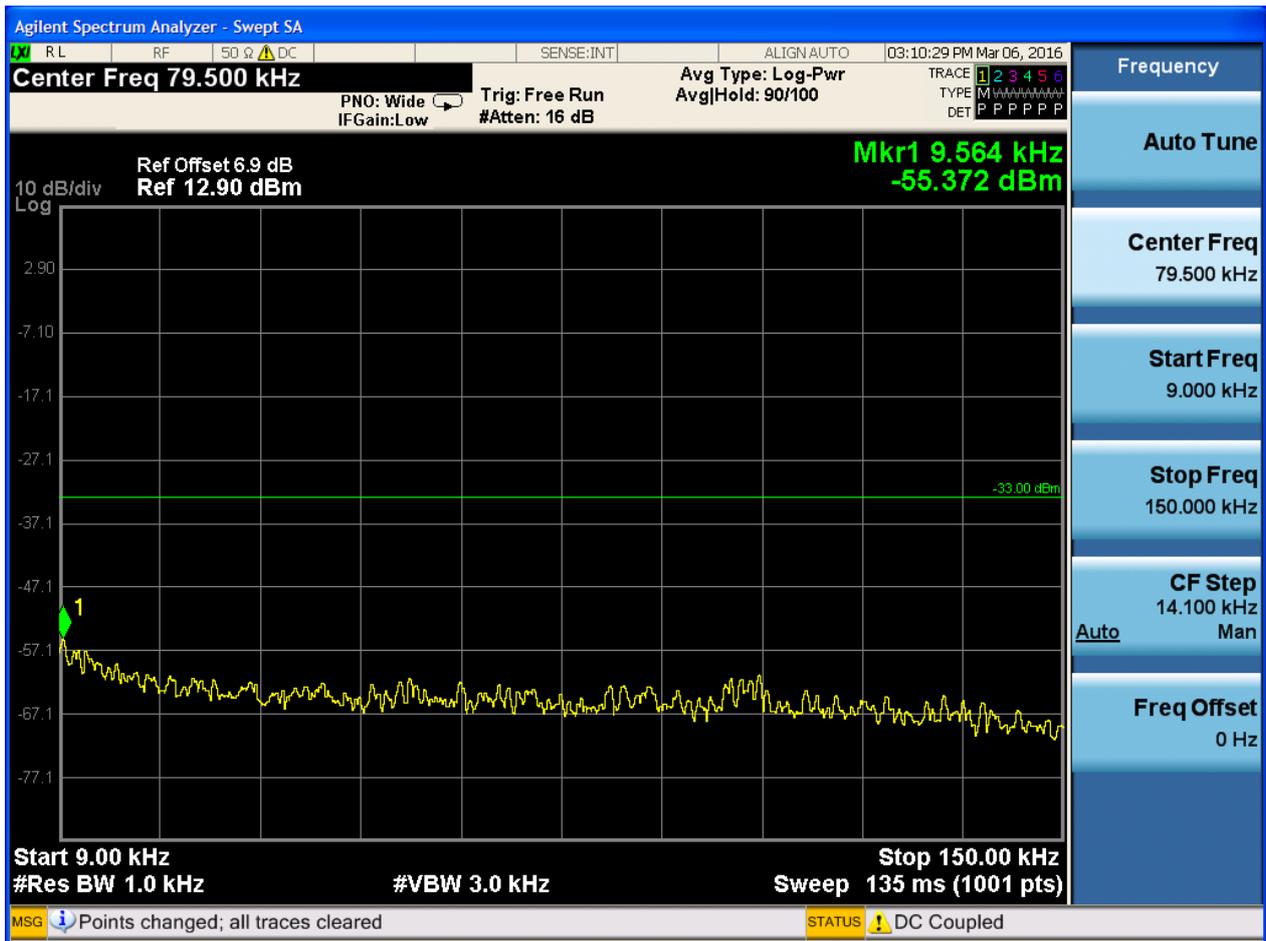


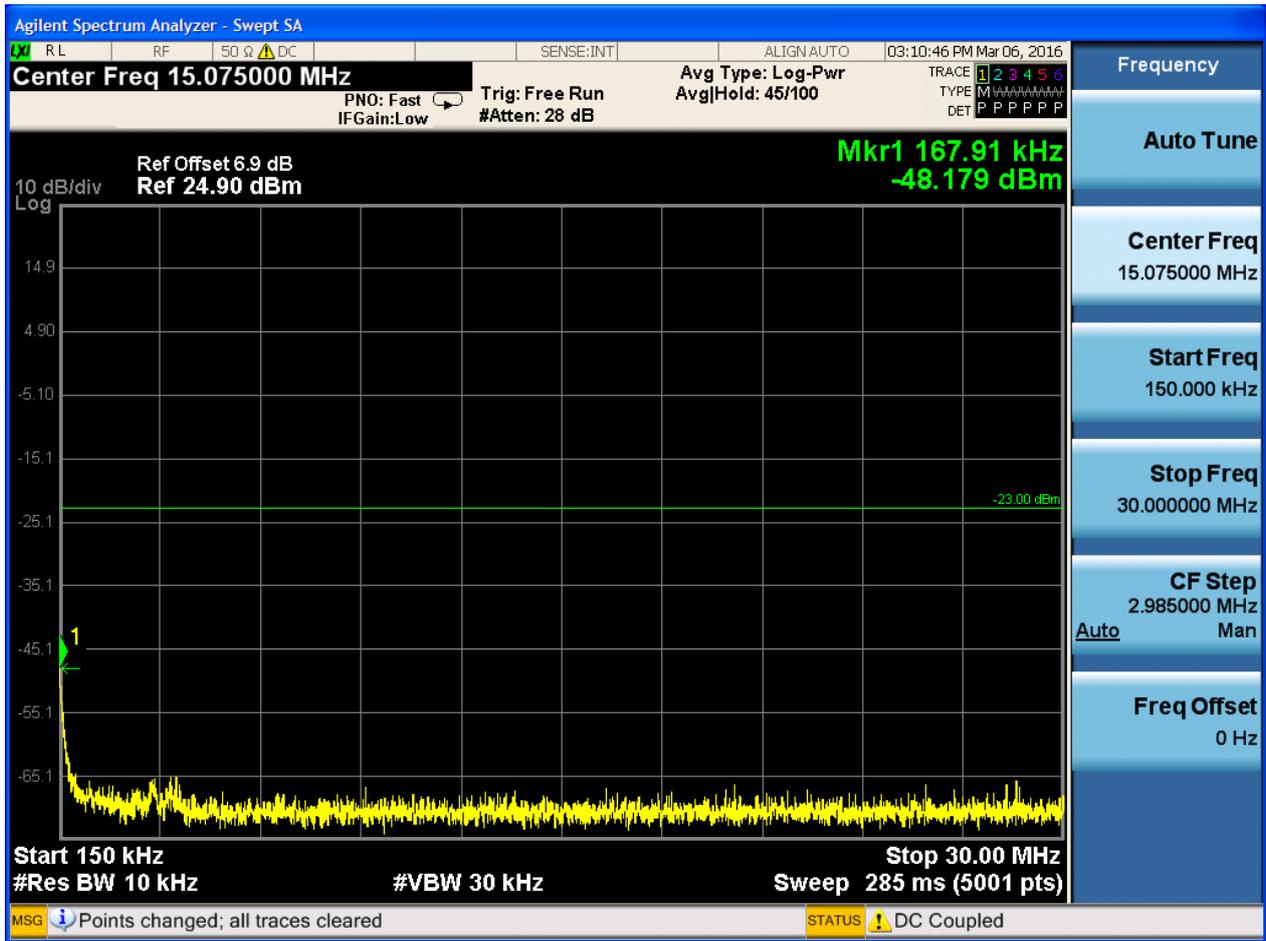


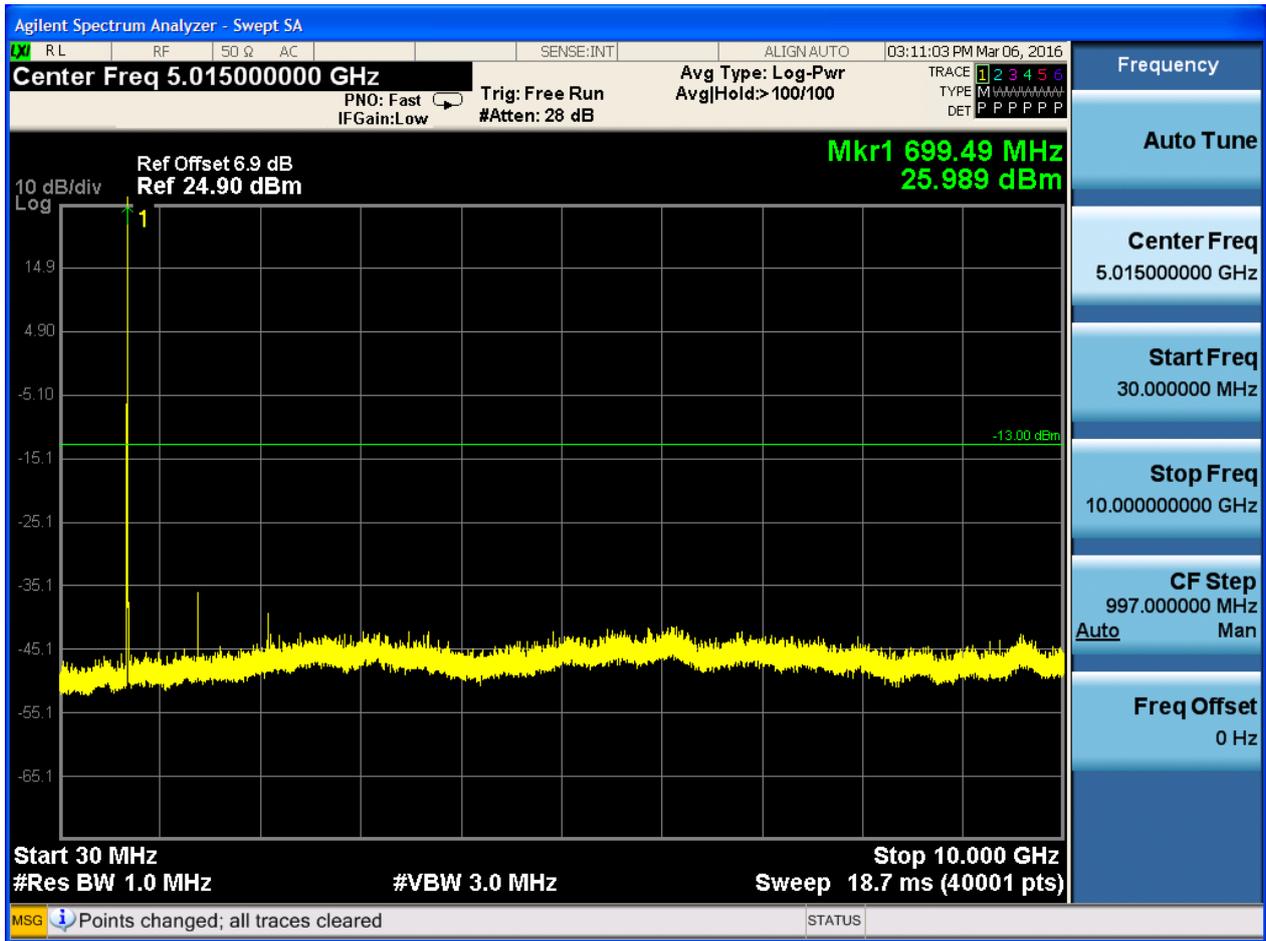
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



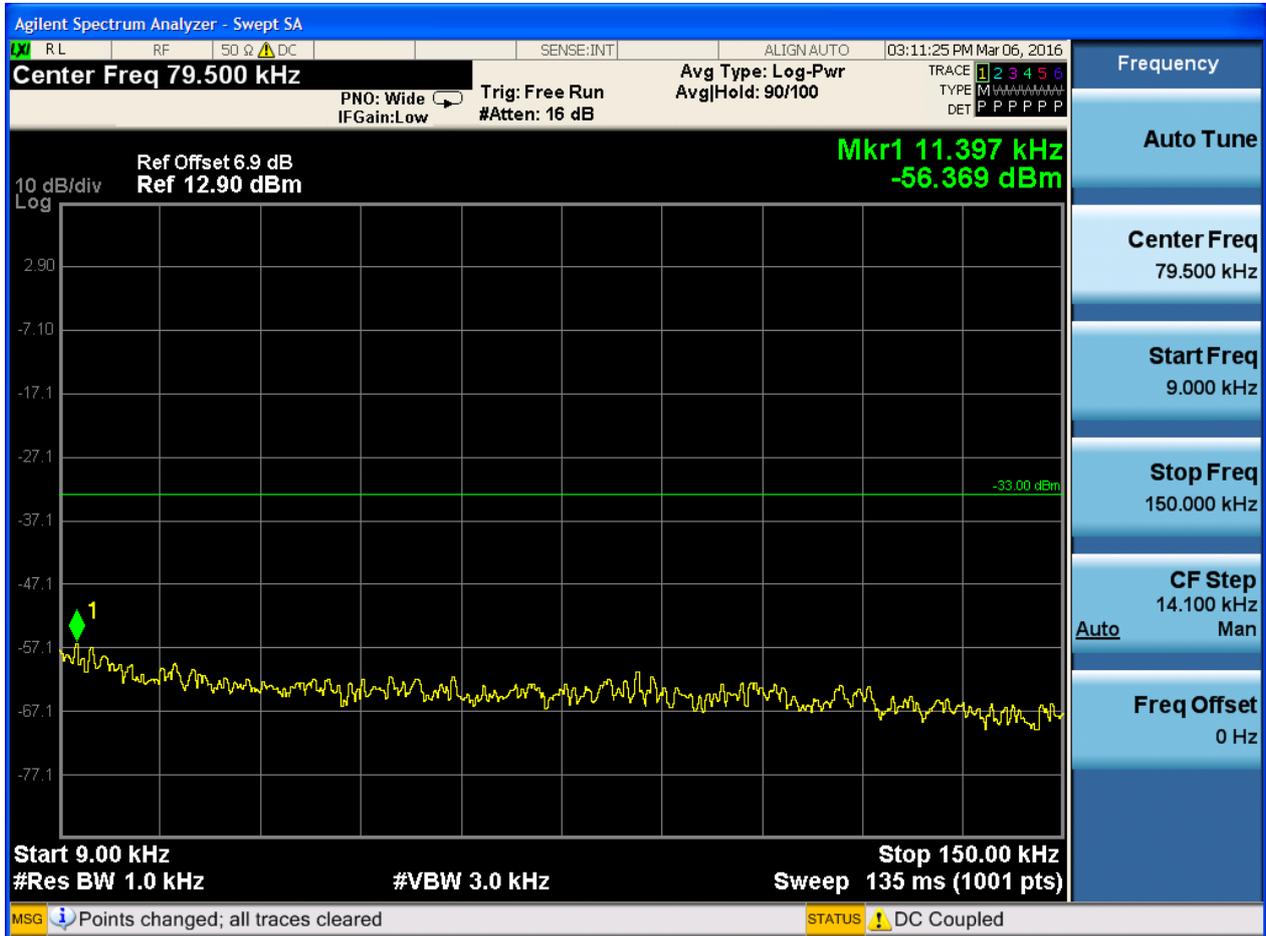


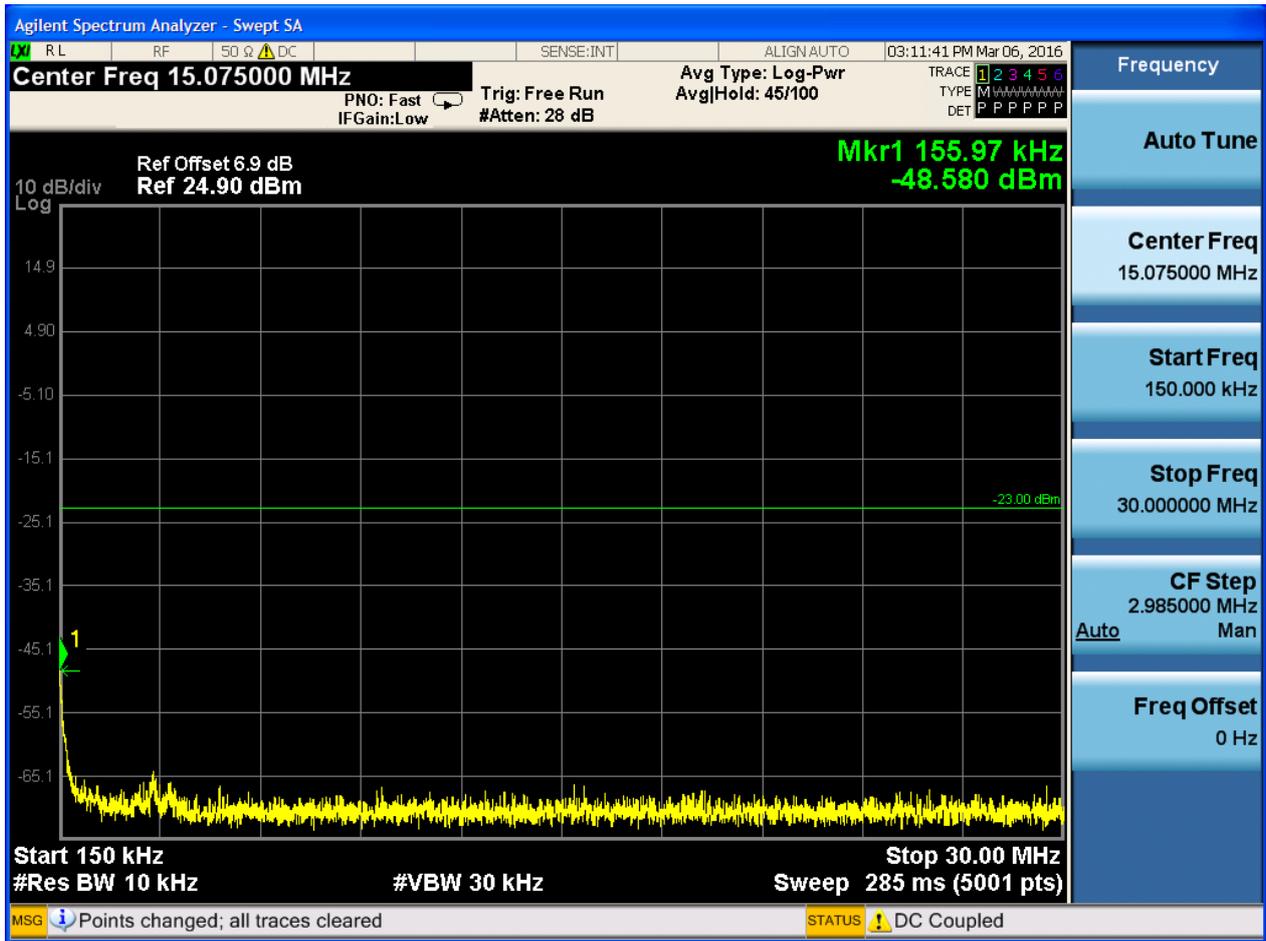


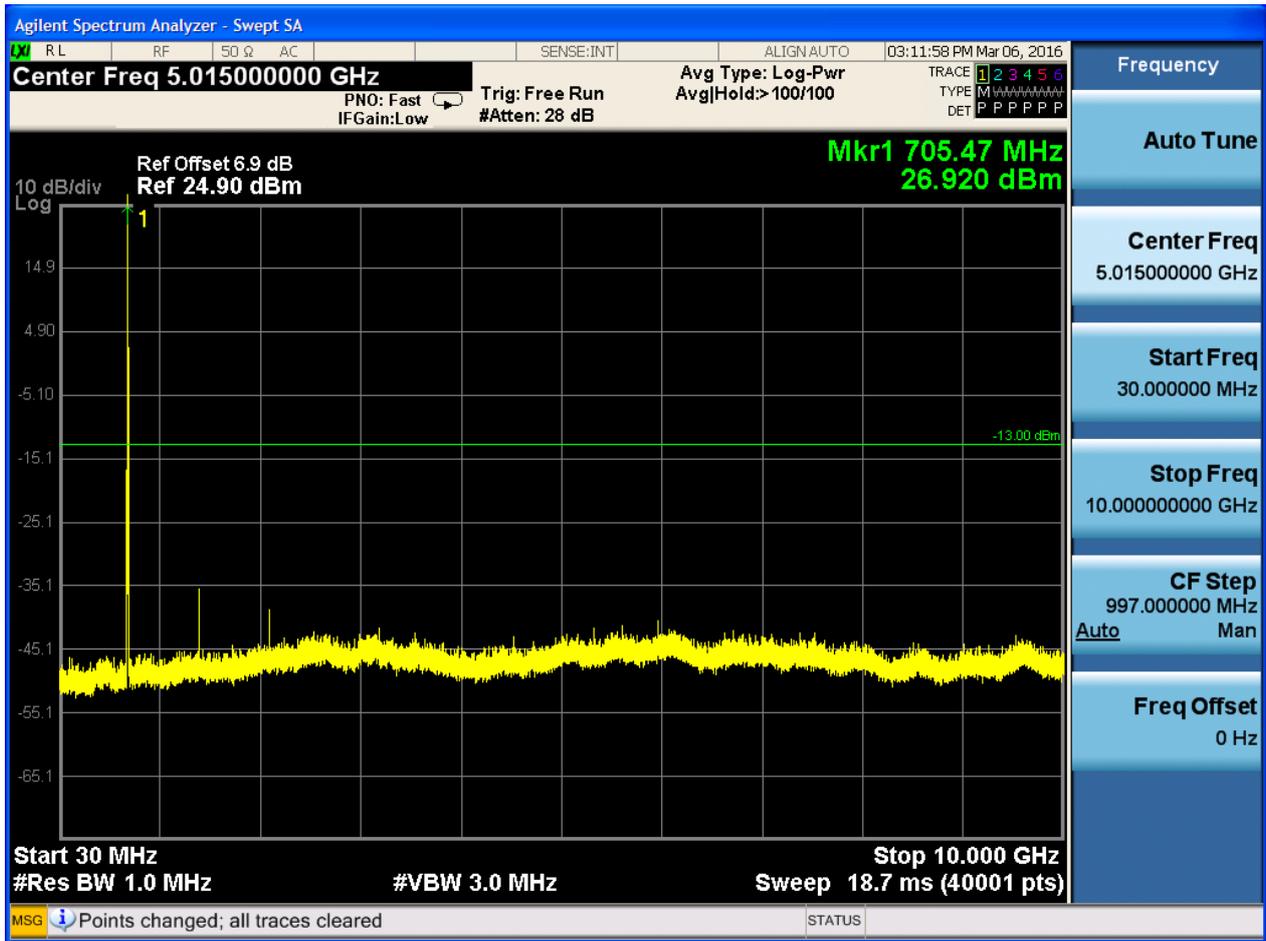


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



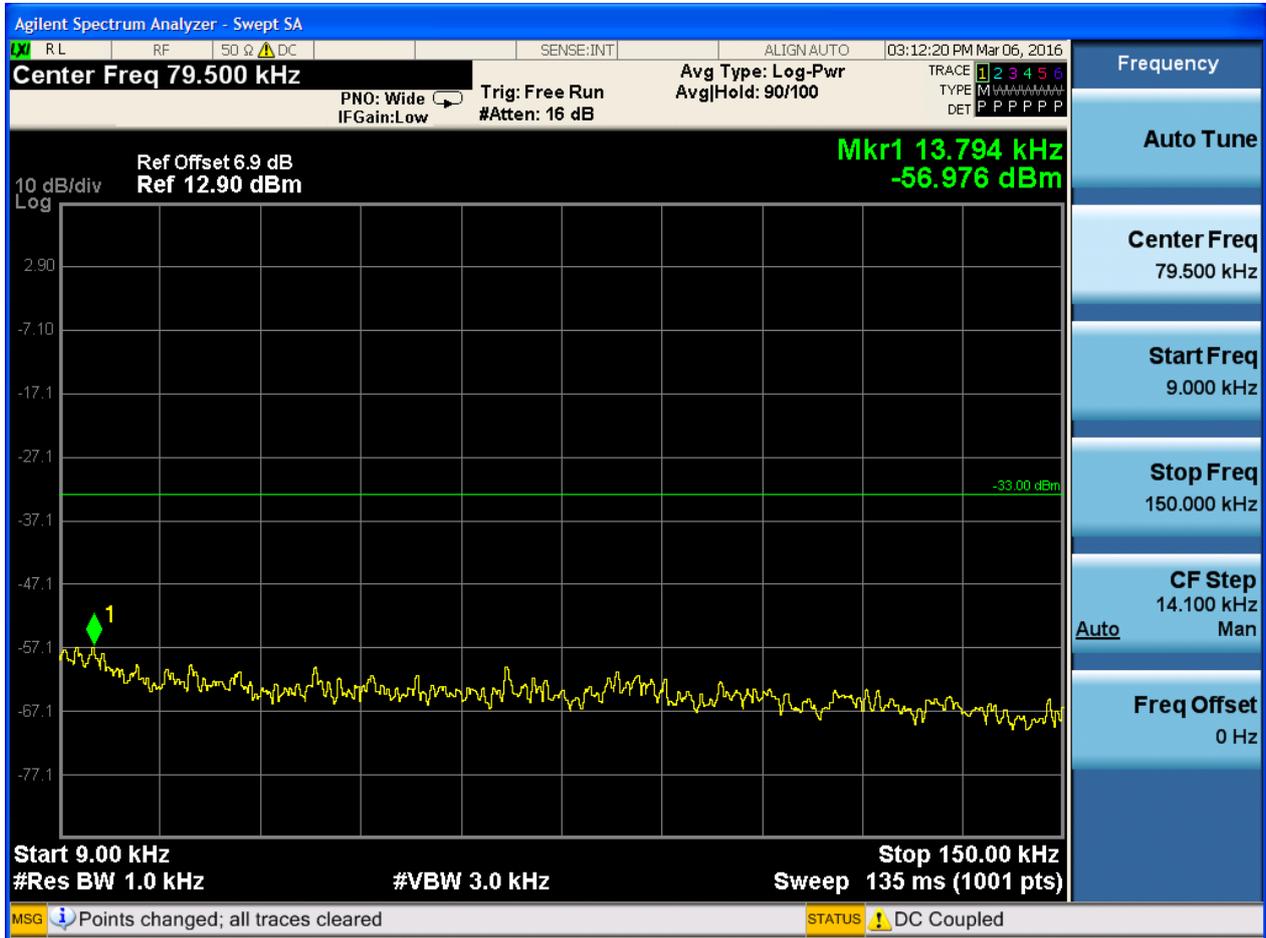


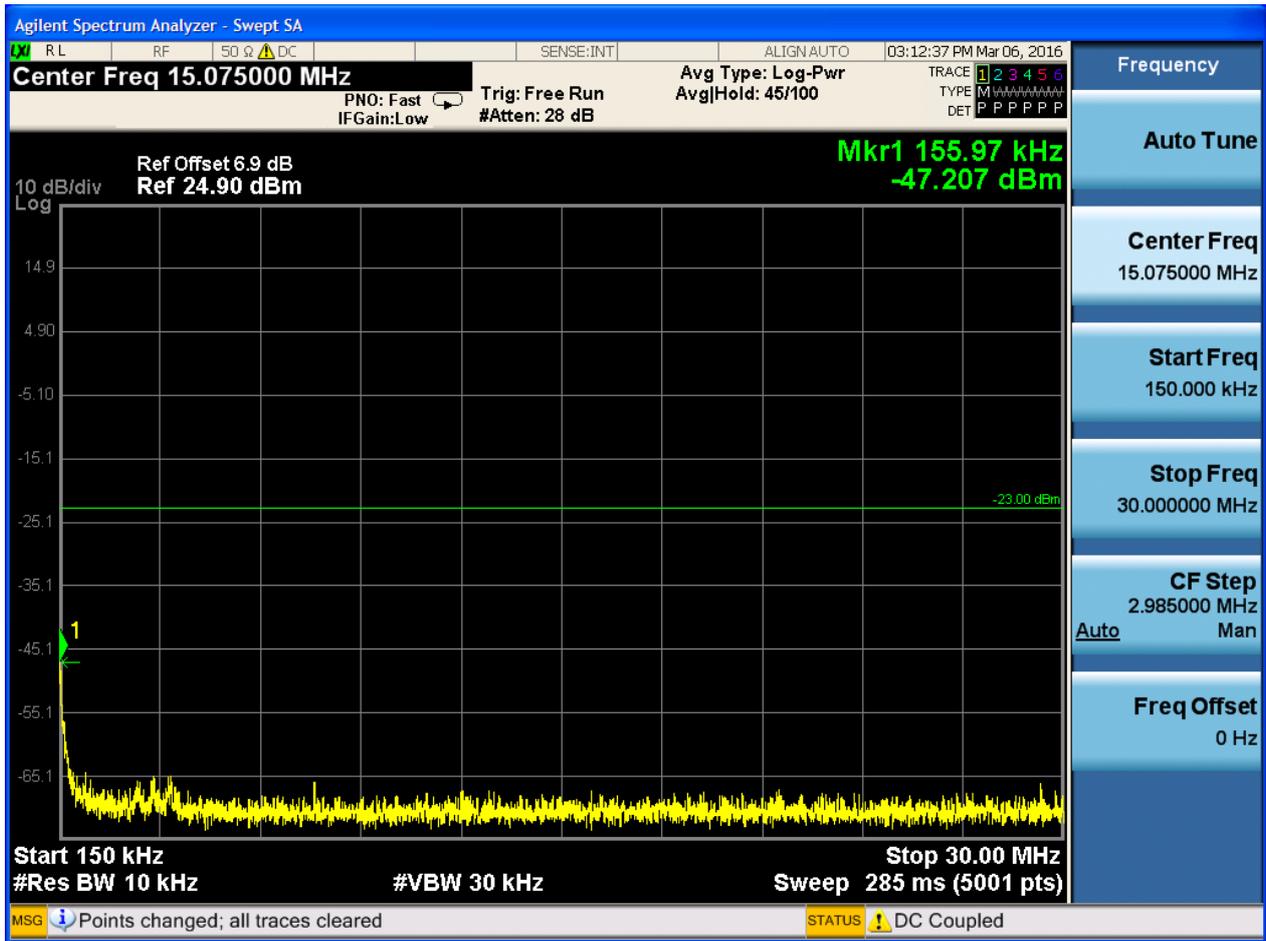


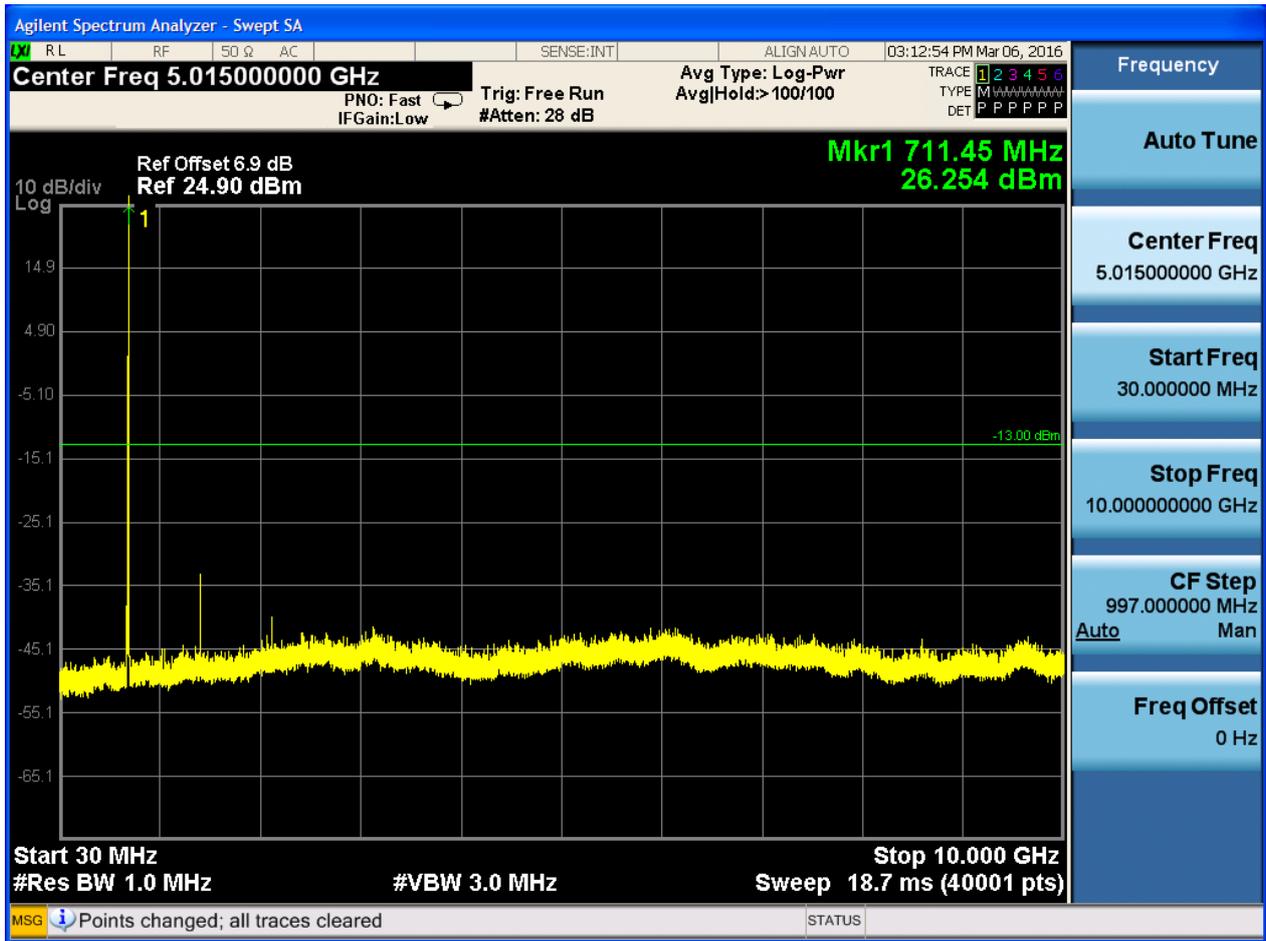


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





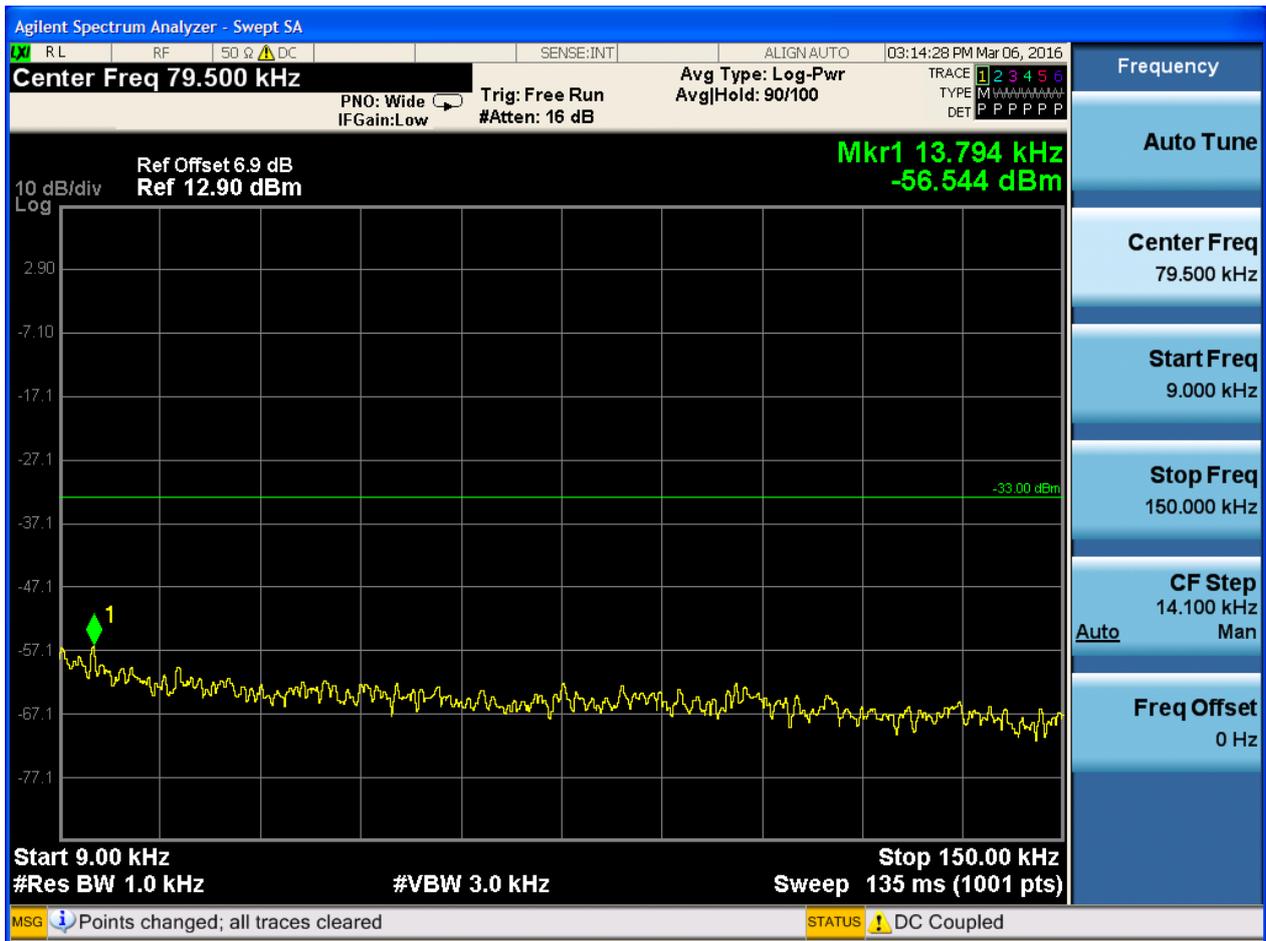


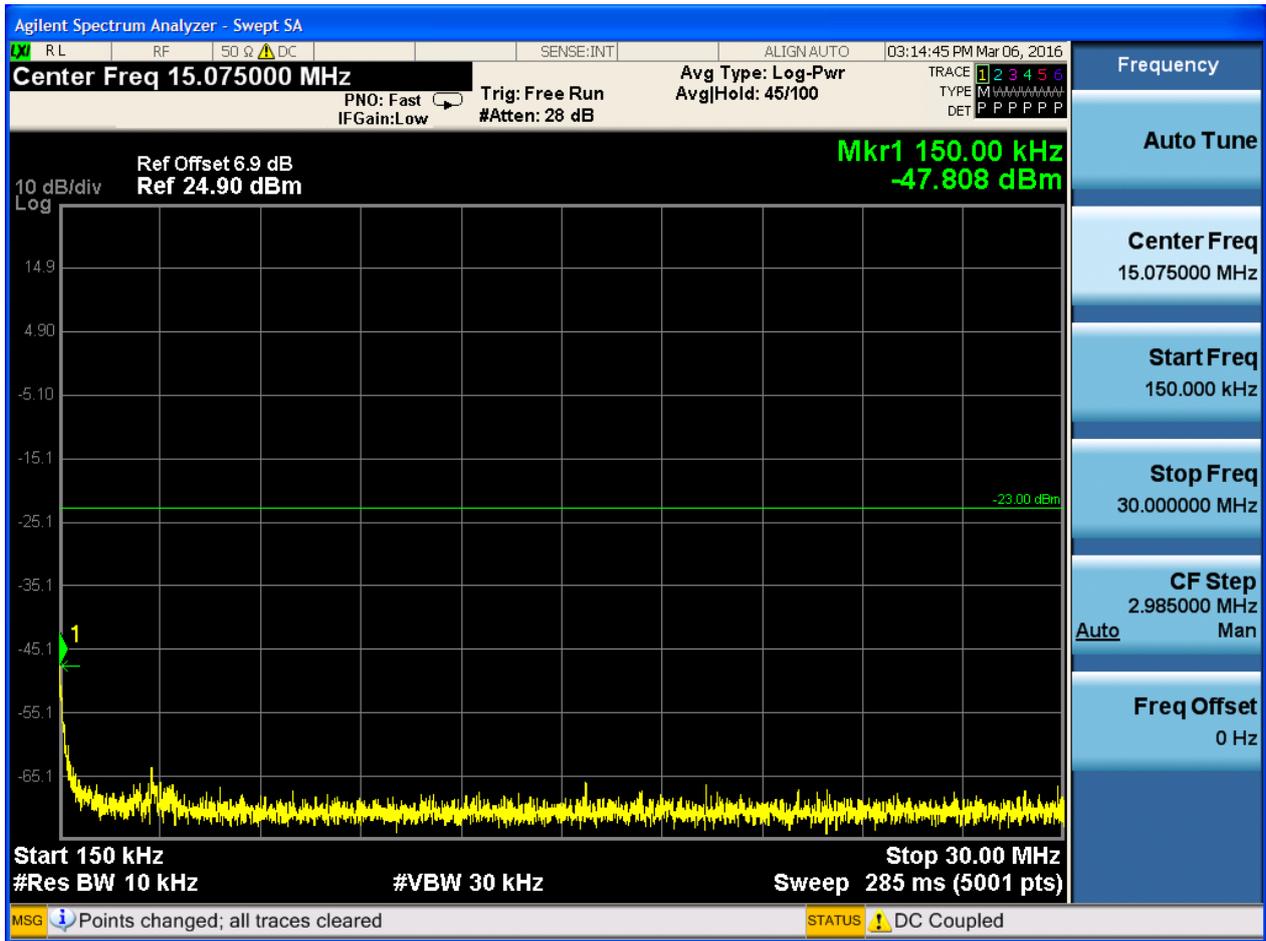


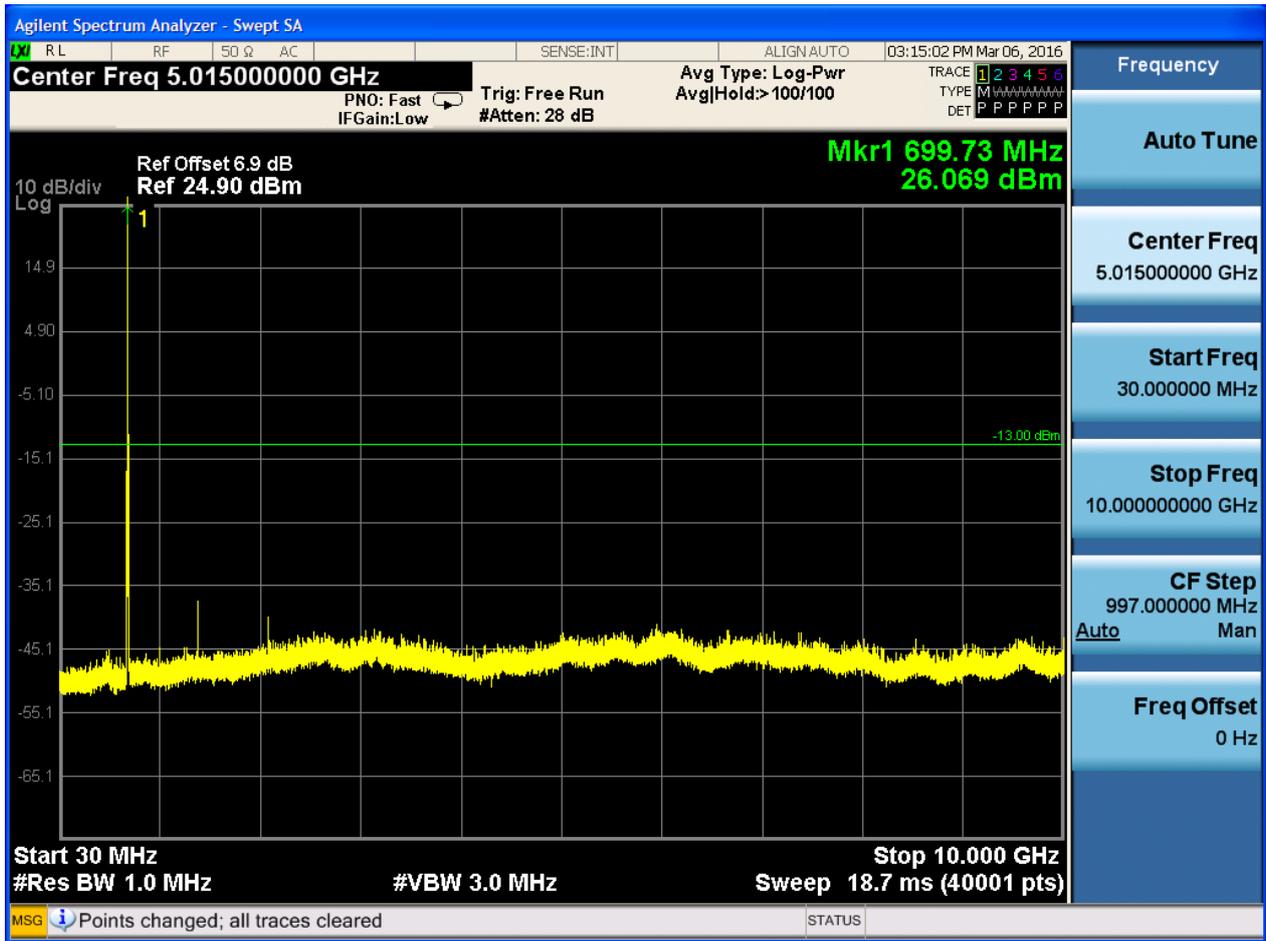
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



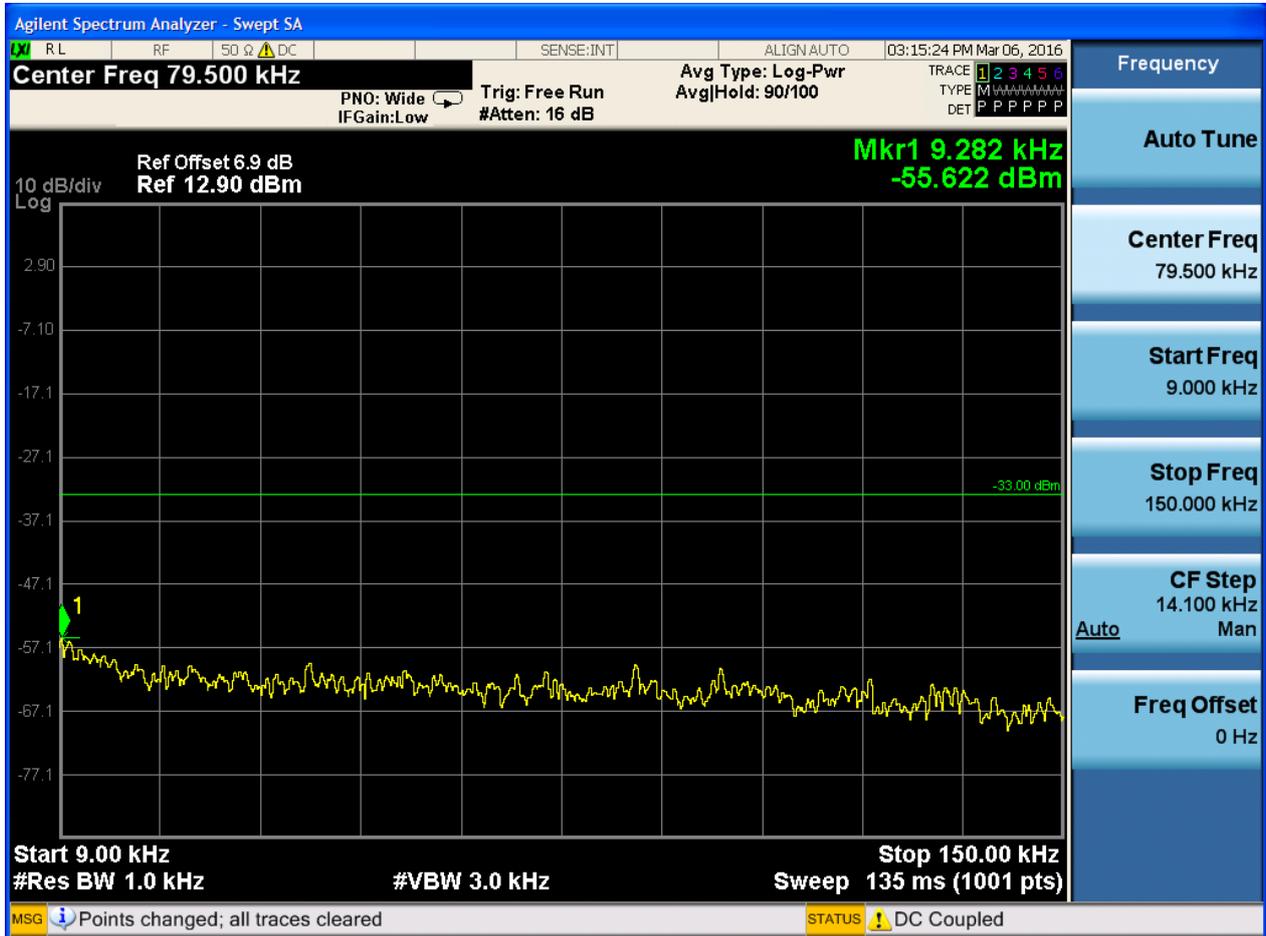


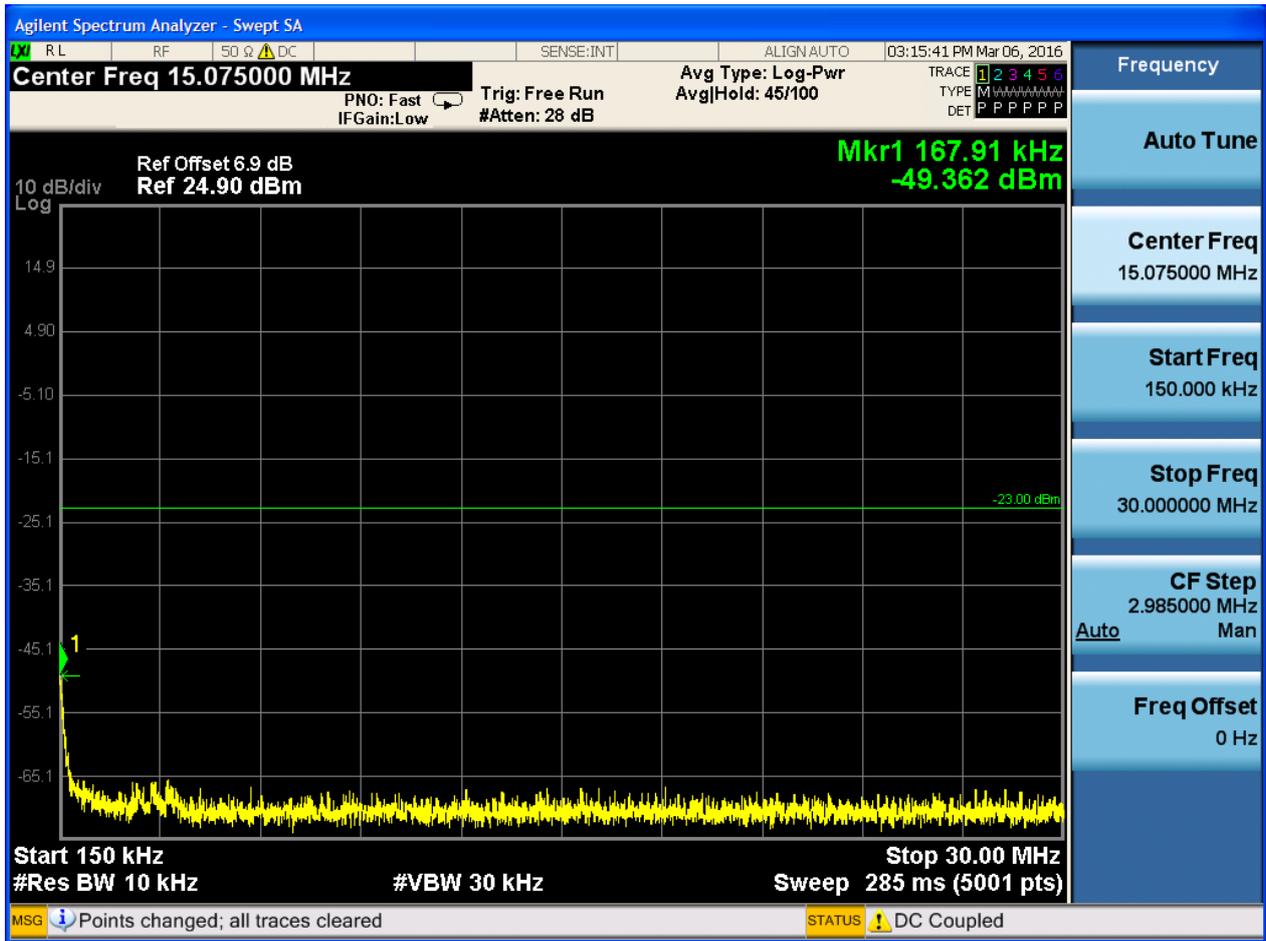


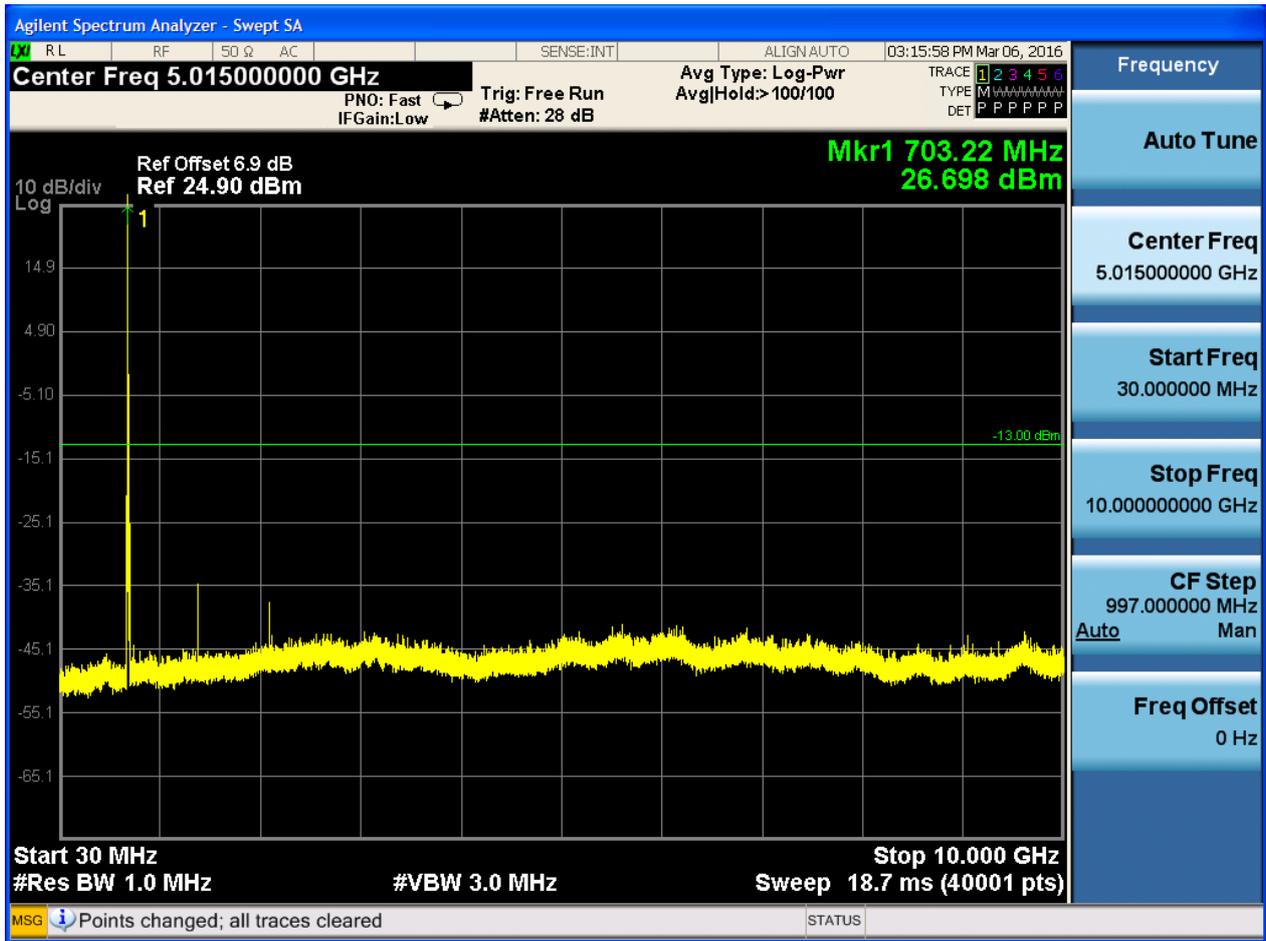


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



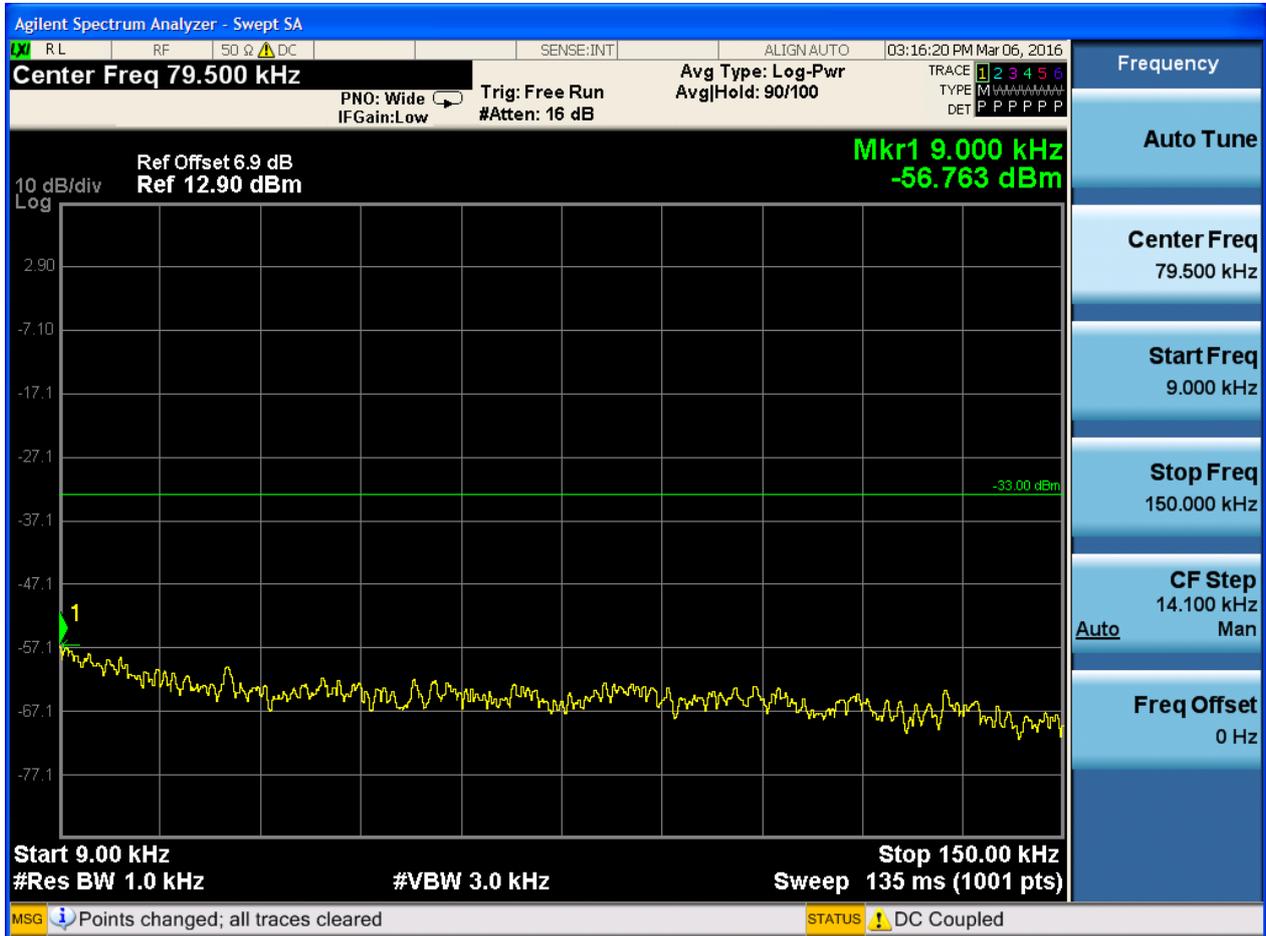


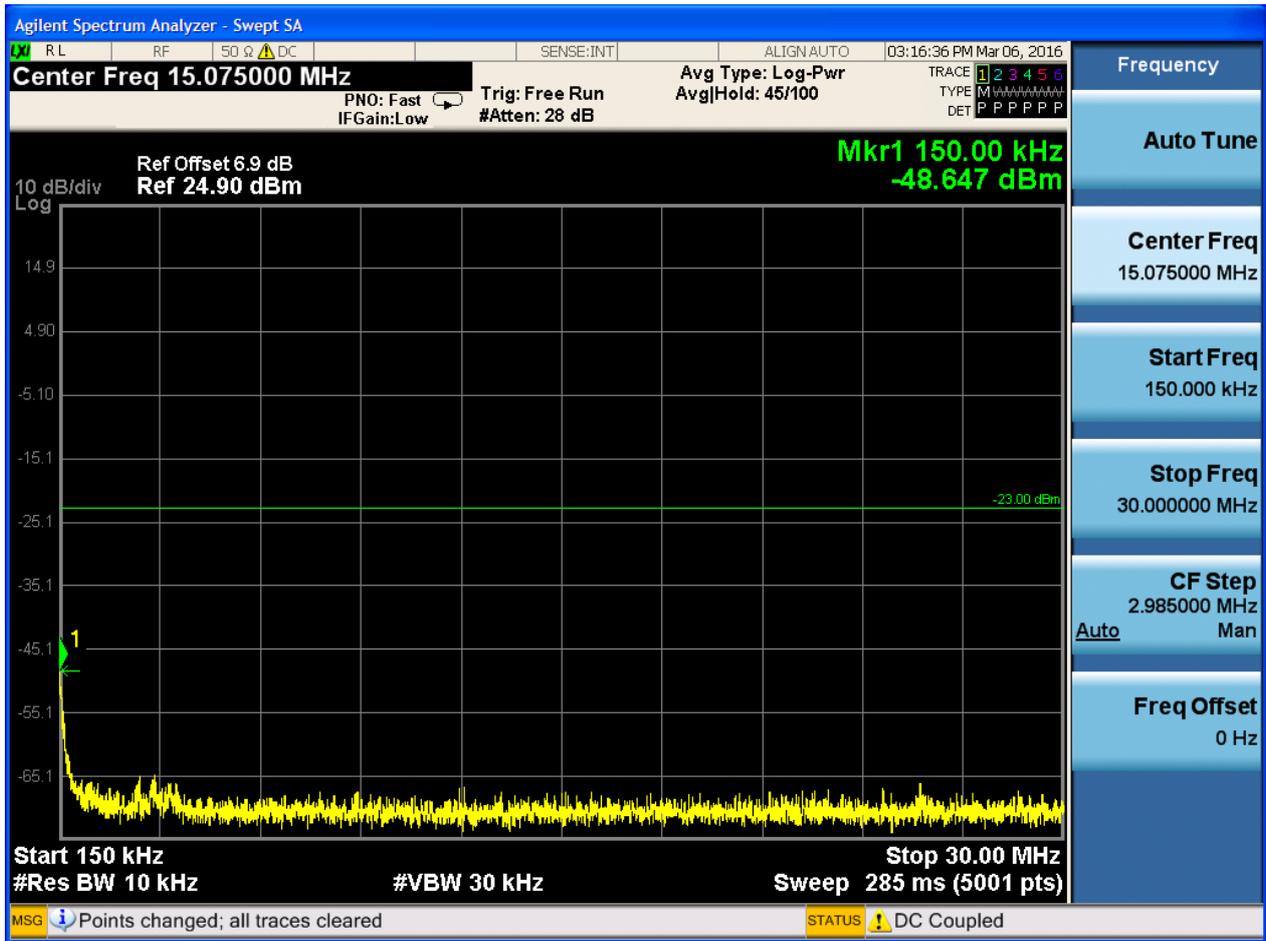


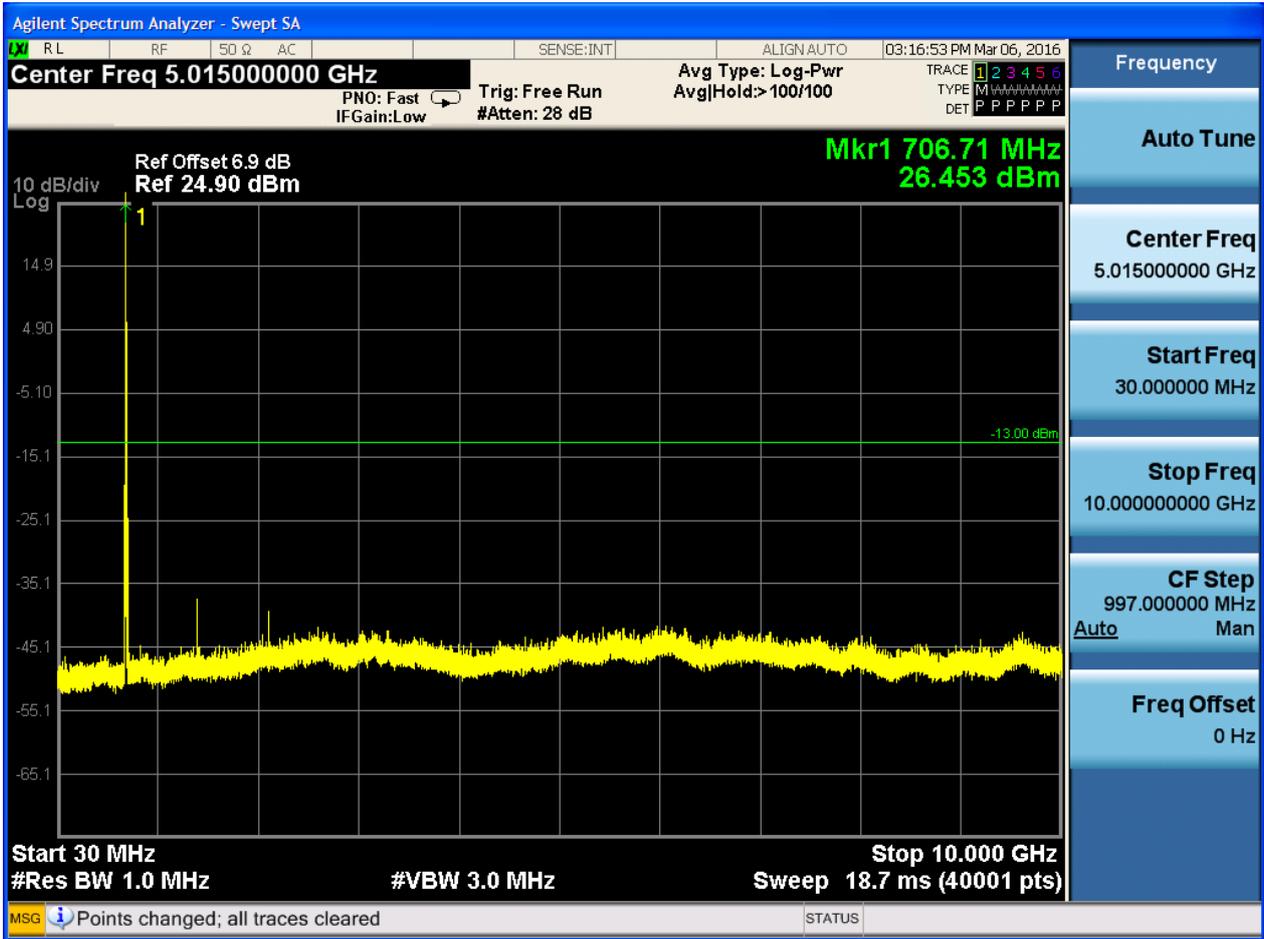


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: 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

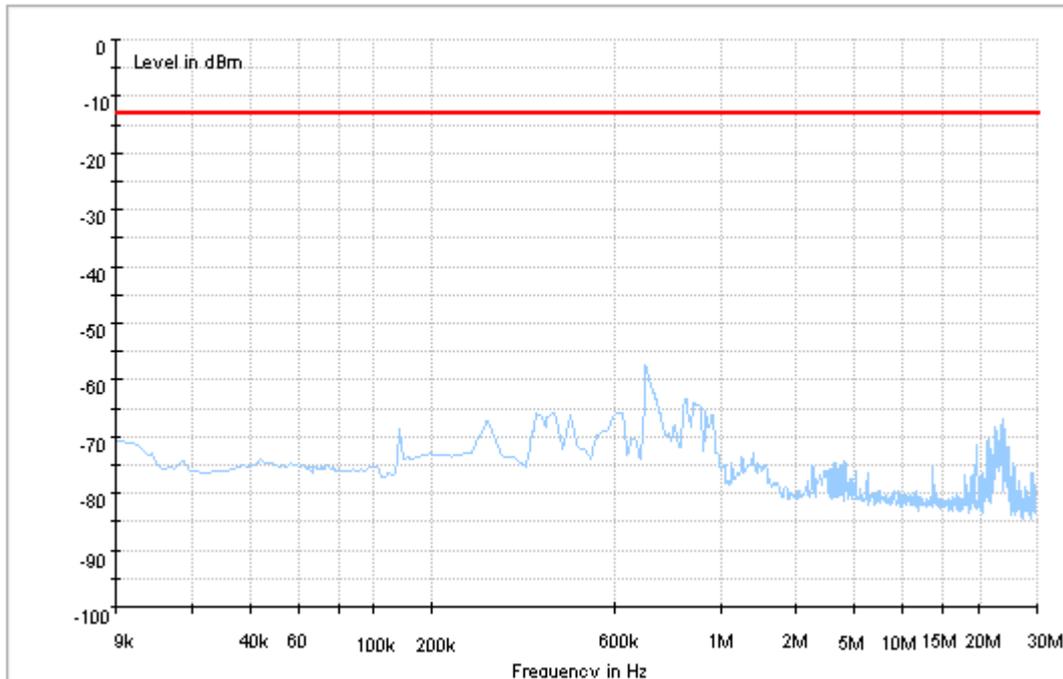
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

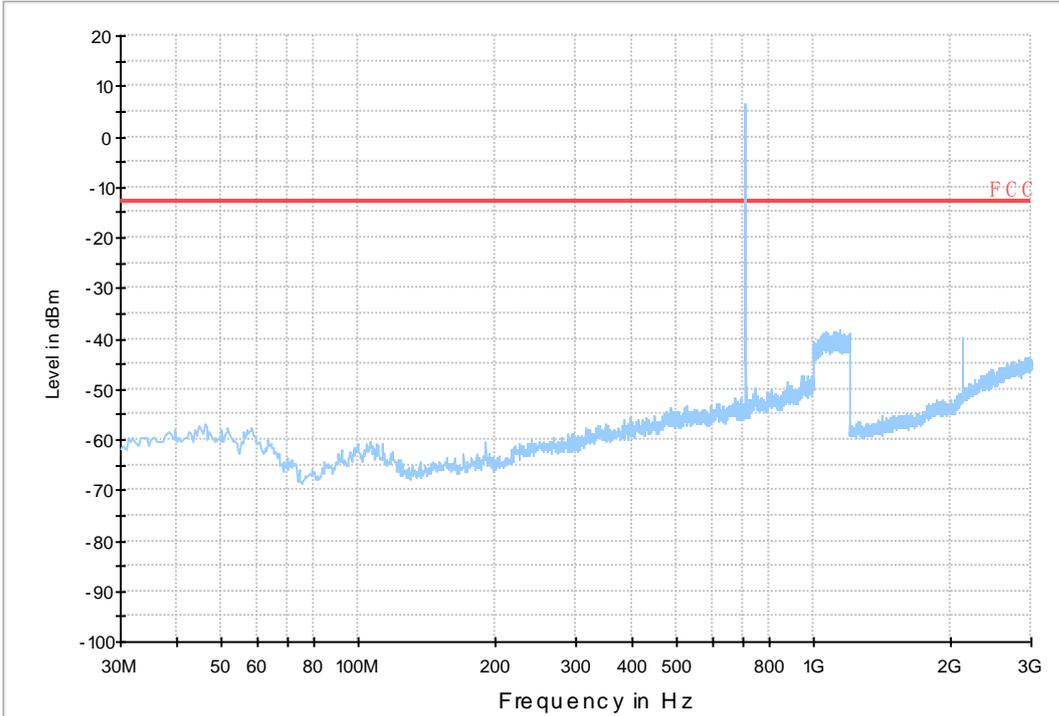
7.1 For LTE

7.1.1 Test Band = BAND12

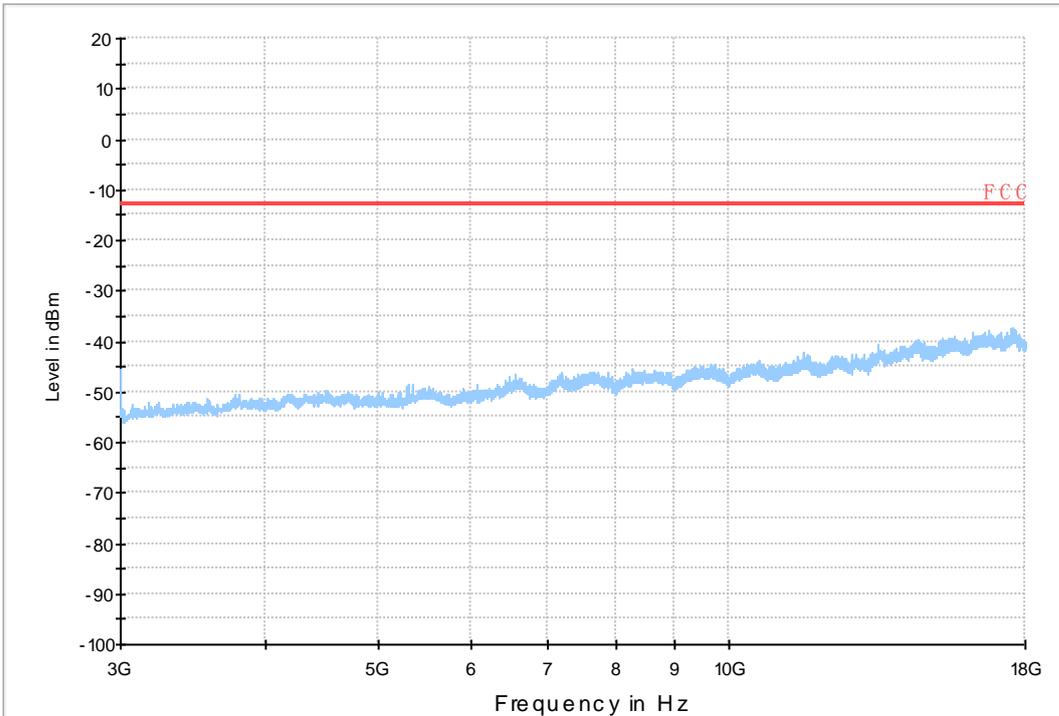
7.1.1.1 Test Bandwidth = 1.4



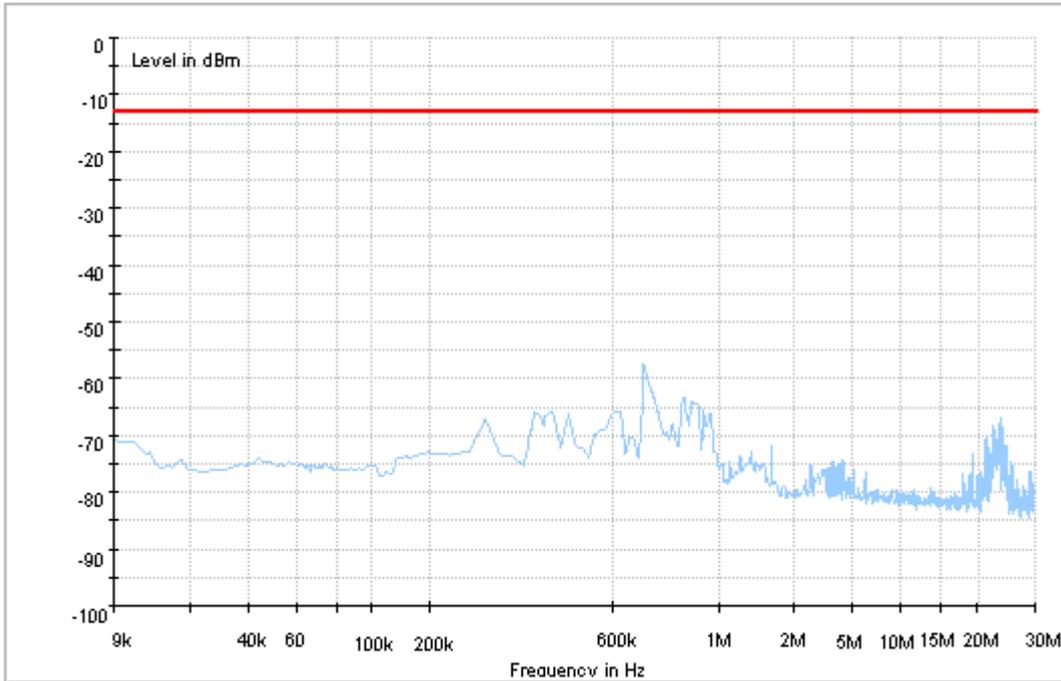
Copy of RSE-TX-DIRECTOR BELOW 1G_L



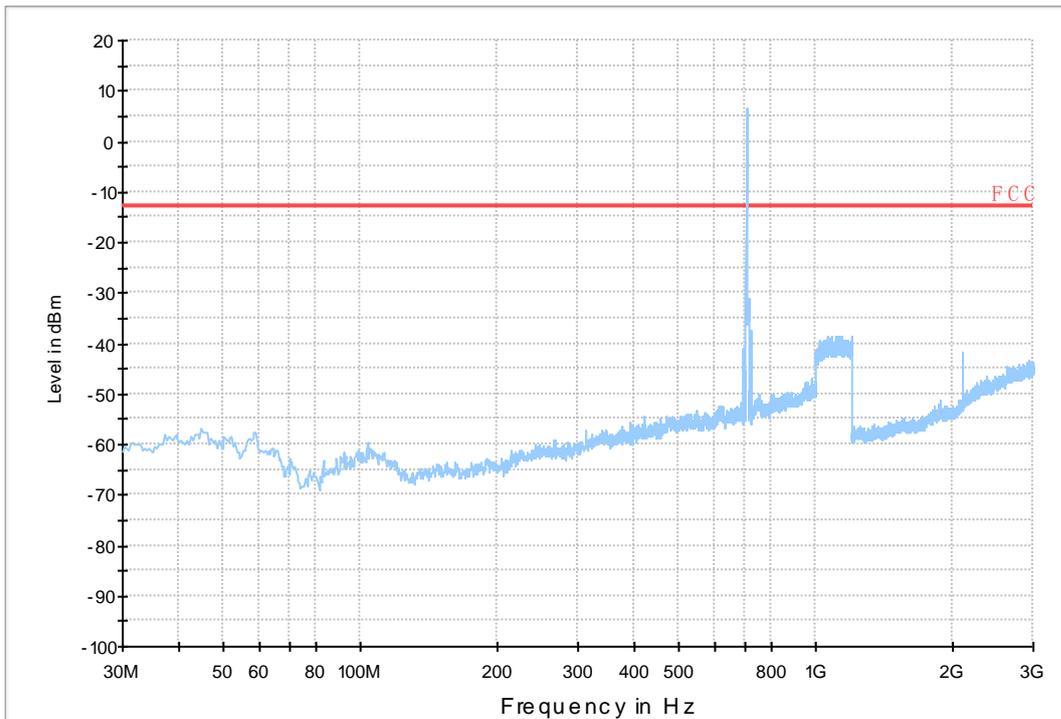
Copy of RSE-TX-DIRECTOR BELOW 1G_H



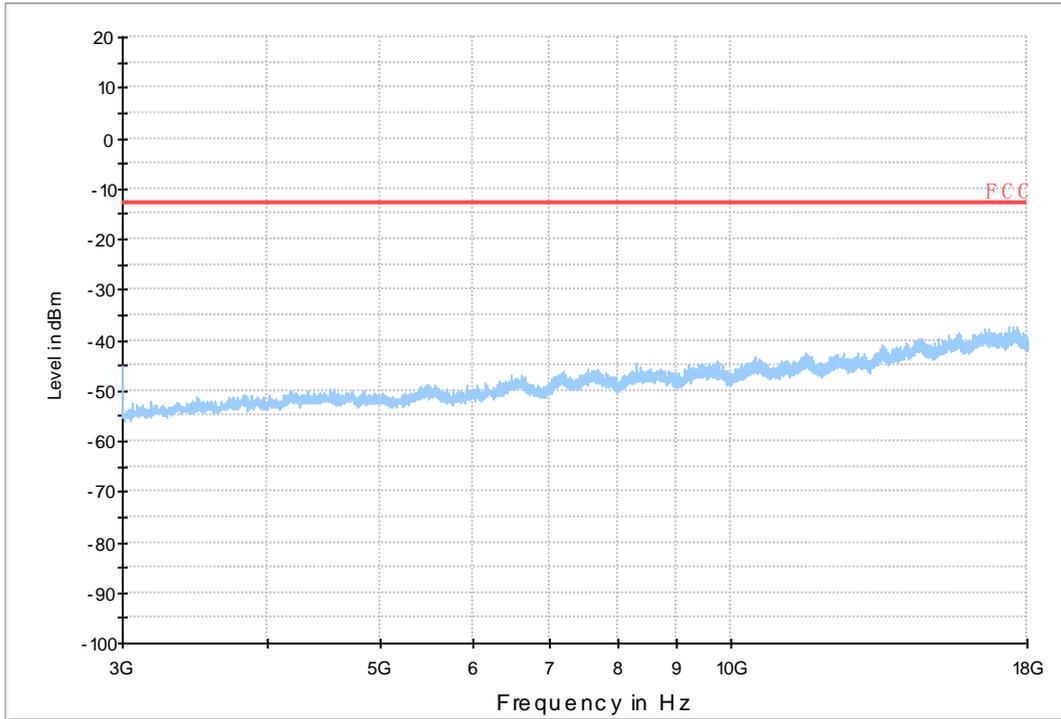
7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H





8Appendix_H: Frequency Stability



8.1 For LTE

8.1.1 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
BAND12	LTE/TM1	1.4	LCH	TN	VL	0.46	0.00066	PASS
					VN	0.99	0.00141	PASS
					VH	0.44	0.00063	PASS
			MCH	TN	VL	1.56	0.0022	PASS
					VN	1.37	0.00194	PASS
					VH	1.76	0.00249	PASS
			HCH	TN	VL	1.3	0.00182	PASS
					VN	1.49	0.00208	PASS
					VH	1.02	0.00143	PASS
		3	LCH	TN	VL	-6.58	-0.00939	PASS
					VN	3.56	0.00508	PASS
					VH	-0.7	-0.001	PASS
			MCH	TN	VL	-2.76	-0.0039	PASS
					VN	1.36	0.00192	PASS
					VH	5.71	0.00807	PASS
			HCH	TN	VL	-0.99	-0.00139	PASS
					VN	1.93	0.0027	PASS
					VH	-1.1	-0.00154	PASS
		5	LCH	TN	VL	-2	-0.00285	PASS
					VN	-1.96	-0.00279	PASS
					VH	2.06	0.00294	PASS
			MCH	TN	VL	6.14	0.00868	PASS
					VN	-1.97	-0.00278	PASS
					VH	-1.06	-0.0015	PASS
			HCH	TN	VL	-4.05	-0.00568	PASS
					VN	-0.83	-0.00116	PASS
					VH	-5.78	-0.0081	PASS
		10	LCH	TN	VL	-1.12	-0.00159	PASS
					VN	-12.65	-0.01797	PASS
					VH	-1.26	-0.00179	PASS
			MCH	TN	VL	9.6	0.01357	PASS
					VN	-3.1	-0.00438	PASS
					VH	-1.79	-0.00253	PASS
			HCH	TN	VL	-7.71	-0.01084	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-6.82	-0.00959	PASS
					VH	-9.63	-0.01354	PASS
		1.4	LCH	TN	VL	-0.2	-0.00029	PASS
					VN	-0.23	-0.00033	PASS
					VH	0.06	0.00009	PASS
					VL	-0.23	-0.00033	PASS
					VN	0.13	0.00018	PASS
					VH	-0.13	-0.00018	PASS
			MCH	TN	VL	-0.23	-0.00033	PASS
					VN	0.13	0.00018	PASS
					VH	-0.13	-0.00018	PASS
					VL	0.16	0.00022	PASS
					VN	0.82	0.00115	PASS
					VH	0.37	0.00052	PASS
		3	LCH	TN	VL	-4.33	-0.00618	PASS
					VN	4.75	0.00678	PASS
					VH	2.6	0.00371	PASS
					VL	1.97	0.00278	PASS
					VN	-0.43	-0.00061	PASS
					VH	-0.43	-0.00061	PASS
			MCH	TN	VL	-6.12	-0.00857	PASS
					VN	3	0.0042	PASS
					VH	3.75	0.00525	PASS
					VL	8.37	0.01193	PASS
					VN	1.73	0.00247	PASS
					VH	-4.49	-0.0064	PASS
		5	LCH	TN	VL	-8.4	-0.01187	PASS
					VN	-8.21	-0.0116	PASS
					VH	-3.39	-0.00479	PASS
					VL	-4.43	-0.00621	PASS
					VN	-1.72	-0.00241	PASS
					VH	-4.61	-0.00646	PASS
			MCH	TN	VL	-2.15	-0.00305	PASS
					VN	6.15	0.00874	PASS
					VH	-7.21	-0.01024	PASS
					VL	0.93	0.00131	PASS
					VN	-1	-0.00141	PASS
					VH	-0.06	-0.00008	PASS
		10	LCH	TN	VL	-0.34	-0.00048	PASS
					VN	8.07	0.01135	PASS
					VH	-1.73	-0.00243	PASS
					VL	-0.34	-0.00048	PASS
VN	8.07				0.01135	PASS		
VH	-1.73				-0.00243	PASS		
MCH	TN		VL	-0.34	-0.00048	PASS		
			VN	8.07	0.01135	PASS		
			VH	-1.73	-0.00243	PASS		
			VL	-0.34	-0.00048	PASS		
			VN	8.07	0.01135	PASS		
			VH	-1.73	-0.00243	PASS		
HCH	TN	VL	-0.34	-0.00048	PASS			
		VN	8.07	0.01135	PASS			
		VH	-1.73	-0.00243	PASS			
		VL	-0.34	-0.00048	PASS			
		VN	8.07	0.01135	PASS			
		VH	-1.73	-0.00243	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	1.59	0.00227	PASS
					-20	1.36	0.00194	PASS
					-10	1.39	0.00199	PASS
					0	1.06	0.00151	PASS
					10	0.72	0.00103	PASS
					20	0.86	0.00123	PASS
					30	-0.06	-0.00009	PASS
					40	0.49	0.0007	PASS
			50	0.86	0.00123	PASS		
			MCH	VN	-30	1.32	0.00187	PASS
					-20	0.59	0.00083	PASS
					-10	1.12	0.00158	PASS
					0	1.03	0.00146	PASS
					10	0.69	0.00098	PASS
					20	-0.24	-0.00034	PASS
					30	1.23	0.00174	PASS
		40			1.02	0.00144	PASS	
		50	-0.29	-0.00041	PASS			
		HCH	VN	-30	-0.39	-0.00055	PASS	
				-20	0.54	0.00075	PASS	
				-10	0.46	0.00064	PASS	
				0	0.19	0.00027	PASS	
				10	-0.11	-0.00015	PASS	
				20	0.77	0.00108	PASS	
				30	0.04	0.00006	PASS	
				40	-0.13	-0.00018	PASS	
		50	-0.13	-0.00018	PASS			
		3	LCH	VN	-30	-2.26	-0.00323	PASS
					-20	-2.62	-0.00374	PASS
					-10	0.41	0.00059	PASS
					0	-6.37	-0.00909	PASS
					10	3.5	0.005	PASS
20	6.95				0.00992	PASS		
30	5.44				0.00777	PASS		
40	1.96				0.0028	PASS		
50	5.41			0.00772	PASS			
MCH	VN			-30	-1.07	-0.00151	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	-8.96	-0.01266	PASS		
					-10	3.49	0.00493	PASS		
					0	4.49	0.00635	PASS		
					10	-1.1	-0.00155	PASS		
					20	3.78	0.00534	PASS		
					30	-3.29	-0.00465	PASS		
					40	-4.36	-0.00616	PASS		
					50	4.52	0.00639	PASS		
			HCH	VN	-30	2.68	0.00375	PASS		
					-20	-1.46	-0.00204	PASS		
					-10	0.72	0.00101	PASS		
					0	3.06	0.00428	PASS		
					10	-2.35	-0.00329	PASS		
					20	4.02	0.00563	PASS		
		LCH	VN	-30	0.19	0.00027	PASS			
				-20	5.62	0.00801	PASS			
				-10	1.34	0.00191	PASS			
				0	-0.17	-0.00024	PASS			
				10	7.01	0.00999	PASS			
				20	0.63	0.0009	PASS			
				30	-3.66	-0.00522	PASS			
				40	6.04	0.00861	PASS			
		MCH	VN	50	3.43	0.00489	PASS			
				-30	2.1	0.00297	PASS			
				-20	2.63	0.00372	PASS			
				-10	-0.79	-0.00112	PASS			
				0	1.56	0.0022	PASS			
				10	-2.07	-0.00293	PASS			
				20	-7.88	-0.01114	PASS			
				30	0.24	0.00034	PASS			
		HCH	VN	40	1.47	0.00208	PASS			
				50	-1.19	-0.00168	PASS			
				-30	-3.46	-0.00485	PASS			
				-20	-0.84	-0.00118	PASS			
				5			-10	-0.2	-0.00028	PASS
							0	-5.35	-0.0075	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.01	-0.00001	PASS
					20	-6.72	-0.00942	PASS
					30	0.36	0.0005	PASS
					40	-3.25	-0.00456	PASS
					50	-0.34	-0.00048	PASS
			LCH	VN	-30	13.82	0.01963	PASS
					-20	20.04	0.02847	PASS
					-10	8.8	0.0125	PASS
					0	-2.79	-0.00396	PASS
					10	-2.55	-0.00362	PASS
		20			8.51	0.01209	PASS	
		MCH	VN	30	8.07	0.01146	PASS	
				40	14.86	0.02111	PASS	
				50	10.46	0.01486	PASS	
				-30	6.48	0.00916	PASS	
				-20	9.83	0.01389	PASS	
				-10	5.59	0.0079	PASS	
		HCH	VN	0	17.09	0.02416	PASS	
				10	17.15	0.02424	PASS	
				20	10.26	0.0145	PASS	
				30	13.69	0.01935	PASS	
	40			-2.88	-0.00407	PASS		
	50			4.81	0.0068	PASS		
	-30			-11.73	-0.0165	PASS		
	-20	-5.78	-0.00813	PASS				
	-10	-1.95	-0.00274	PASS				
	0	-2.76	-0.00388	PASS				
	10	1.14	0.0016	PASS				
	20	-0.79	-0.00111	PASS				
	30	4.22	0.00594	PASS				
	40	-4.26	-0.00599	PASS				
	50	-3.55	-0.00499	PASS				
	LTE/TM2	1.4	LCH	VN	-30	1.12	0.0016	PASS
-20					-0.11	-0.00016	PASS	
-10					0.11	0.00016	PASS	
0					-1.2	-0.00172	PASS	
10					-0.2	-0.00029	PASS	
20					-0.51	-0.00073	PASS	
30					-0.14	-0.0002	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-0.43	-0.00061	PASS
					50	0.14	0.0002	PASS
			MCH	VN	-30	0.4	0.00057	PASS
					-20	0.86	0.00122	PASS
					-10	0.51	0.00072	PASS
					0	0.94	0.00133	PASS
					10	0.09	0.00013	PASS
					20	0.5	0.00071	PASS
					30	1.07	0.00151	PASS
					40	1.19	0.00168	PASS
					50	1.77	0.0025	PASS
					HCH	VN	-30	0.3
			-20	0.77			0.00108	PASS
			-10	-0.27			-0.00038	PASS
			0	1.27			0.00178	PASS
			10	1.17			0.00164	PASS
			20	1.29			0.0018	PASS
			30	0.54			0.00075	PASS
			40	0.23			0.00032	PASS
			3	LCH	VN	-30	0.69	0.00099
		-20				-1.87	-0.00267	PASS
		-10				5.45	0.00778	PASS
		0				-0.53	-0.00076	PASS
		10				4.72	0.00674	PASS
		20				0.54	0.00077	PASS
		30				5.05	0.00721	PASS
		40				-3.56	-0.00508	PASS
		50				1.54	0.0022	PASS
		MCH				VN	-30	2.23
				-20	-0.64		-0.0009	PASS
				-10	-4.33		-0.00612	PASS
				0	-6.02		-0.00851	PASS
				10	-1.33		-0.00188	PASS
				20	-2.88		-0.00407	PASS
				30	2.83		0.004	PASS
				40	-3.69		-0.00522	PASS
				50	-0.13		-0.00018	PASS
				HCH	VN		-30	-7.11



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	7.32	0.01024	PASS		
					-10	4.68	0.00655	PASS		
					0	5.84	0.00817	PASS		
					10	5.06	0.00708	PASS		
					20	-2.03	-0.00284	PASS		
					30	9.88	0.01383	PASS		
					40	1.7	0.00238	PASS		
					50	-0.69	-0.00097	PASS		
		5	LCH	VN	-30	1.83	0.00261	PASS		
					-20	4.82	0.00687	PASS		
					-10	-5.31	-0.00757	PASS		
					0	-0.93	-0.00133	PASS		
					10	-1.17	-0.00167	PASS		
					20	2.22	0.00316	PASS		
					30	-0.36	-0.00051	PASS		
					40	-5.99	-0.00854	PASS		
					50	0.33	0.00047	PASS		
					MCH	VN	-30	-6.45	-0.00912	PASS
							-20	-4.13	-0.00584	PASS
							-10	0.56	0.00079	PASS
			0	-3.68			-0.0052	PASS		
			10	-3.71			-0.00524	PASS		
			20	0.43			0.00061	PASS		
			30	2.66			0.00376	PASS		
			40	2.16			0.00305	PASS		
			50	-3.42			-0.00483	PASS		
			HCH	VN			-30	-2.86	-0.00401	PASS
							-20	-0.11	-0.00015	PASS
							-10	-4.55	-0.00638	PASS
					0	-4.23	-0.00593	PASS		
					10	-0.96	-0.00135	PASS		
					20	3.52	0.00493	PASS		
		30			-4.09	-0.00573	PASS			
		40			-8.84	-0.01239	PASS			
		50	6.52	0.00914	PASS					
		10	LCH	VN	-30	-3.91	-0.00555	PASS		
					-20	1.12	0.00159	PASS		
					-10	0.6	0.00085	PASS		
					0	8.9	0.01264	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-6.49	-0.00922	PASS
					20	2.57	0.00365	PASS
					30	8.98	0.01276	PASS
					40	2.17	0.00308	PASS
					50	3.09	0.00439	PASS
			MCH	VN	-30	0.47	0.00066	PASS
					-20	2.79	0.00394	PASS
					-10	4.26	0.00602	PASS
					0	-4.81	-0.0068	PASS
					10	-2.07	-0.00293	PASS
					20	-0.96	-0.00136	PASS
					30	-6.62	-0.00936	PASS
					40	-3.83	-0.00541	PASS
			HCH	VN	50	-5.78	-0.00817	PASS
					-30	-3.86	-0.00543	PASS
					-20	5.46	0.00768	PASS
					-10	-1.22	-0.00172	PASS
					0	0.36	0.00051	PASS
					10	1.39	0.00195	PASS
					20	7.7	0.01083	PASS
					30	4.12	0.00579	PASS
40	3.86	0.00543	PASS					
50	1.57	0.00221	PASS					

END