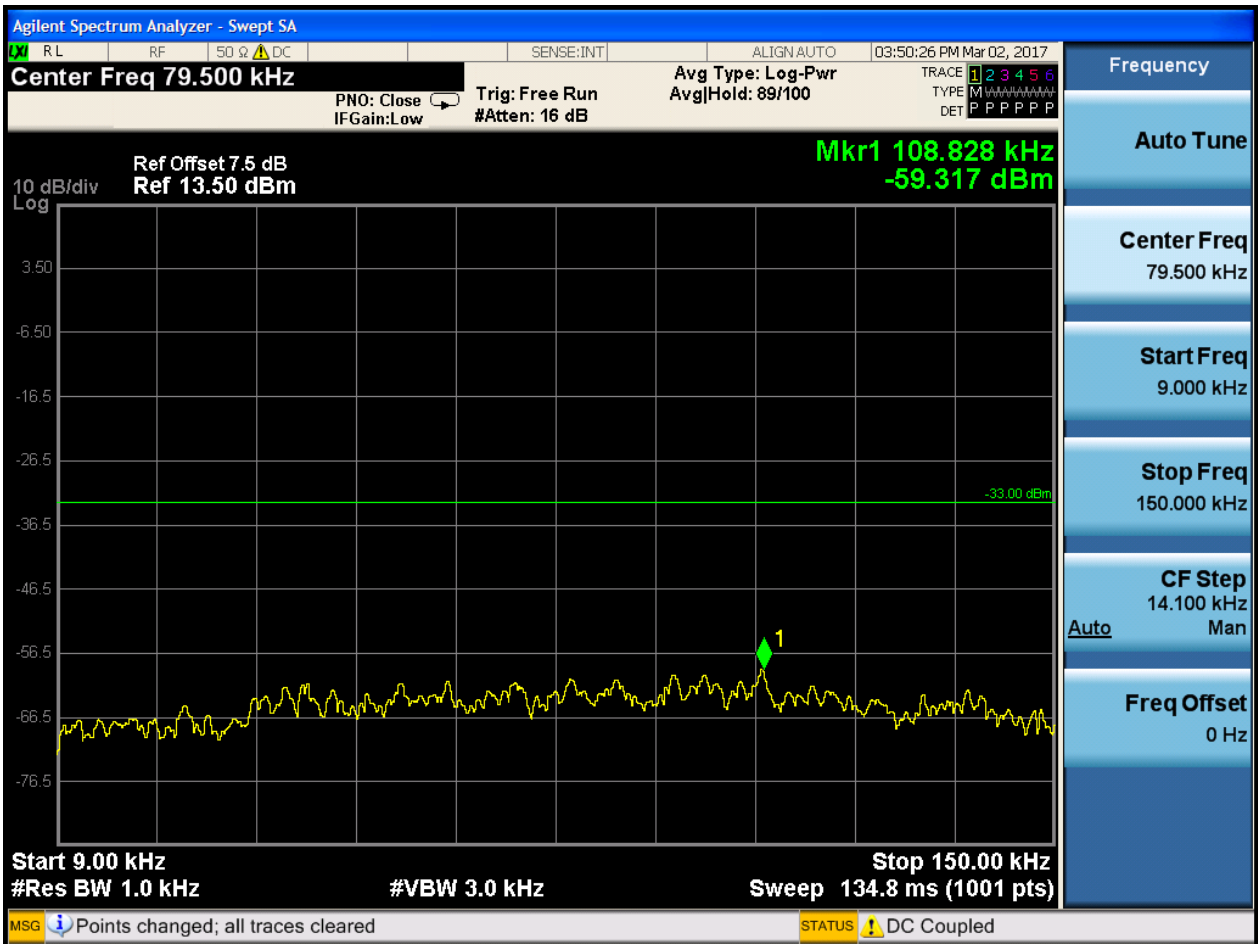


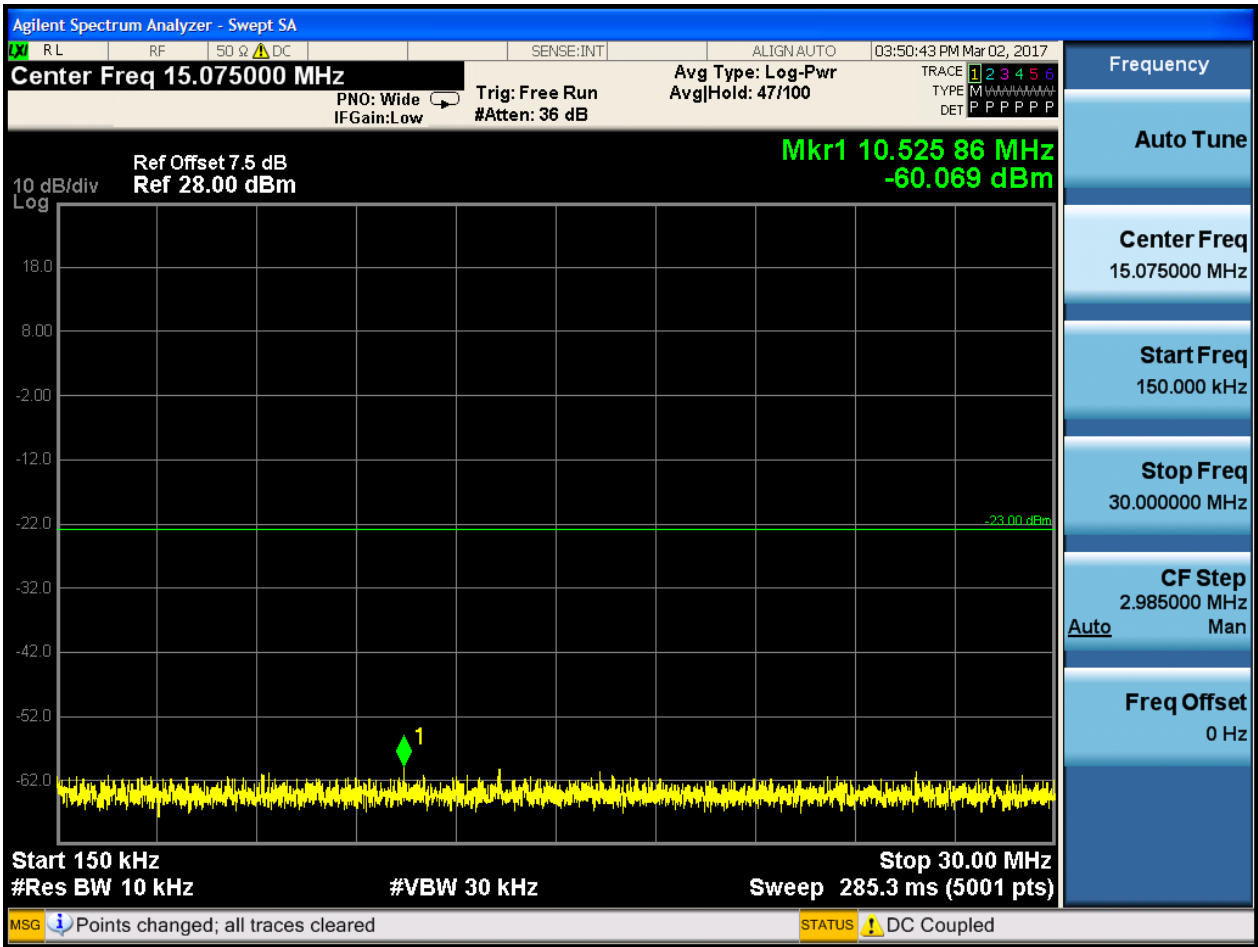


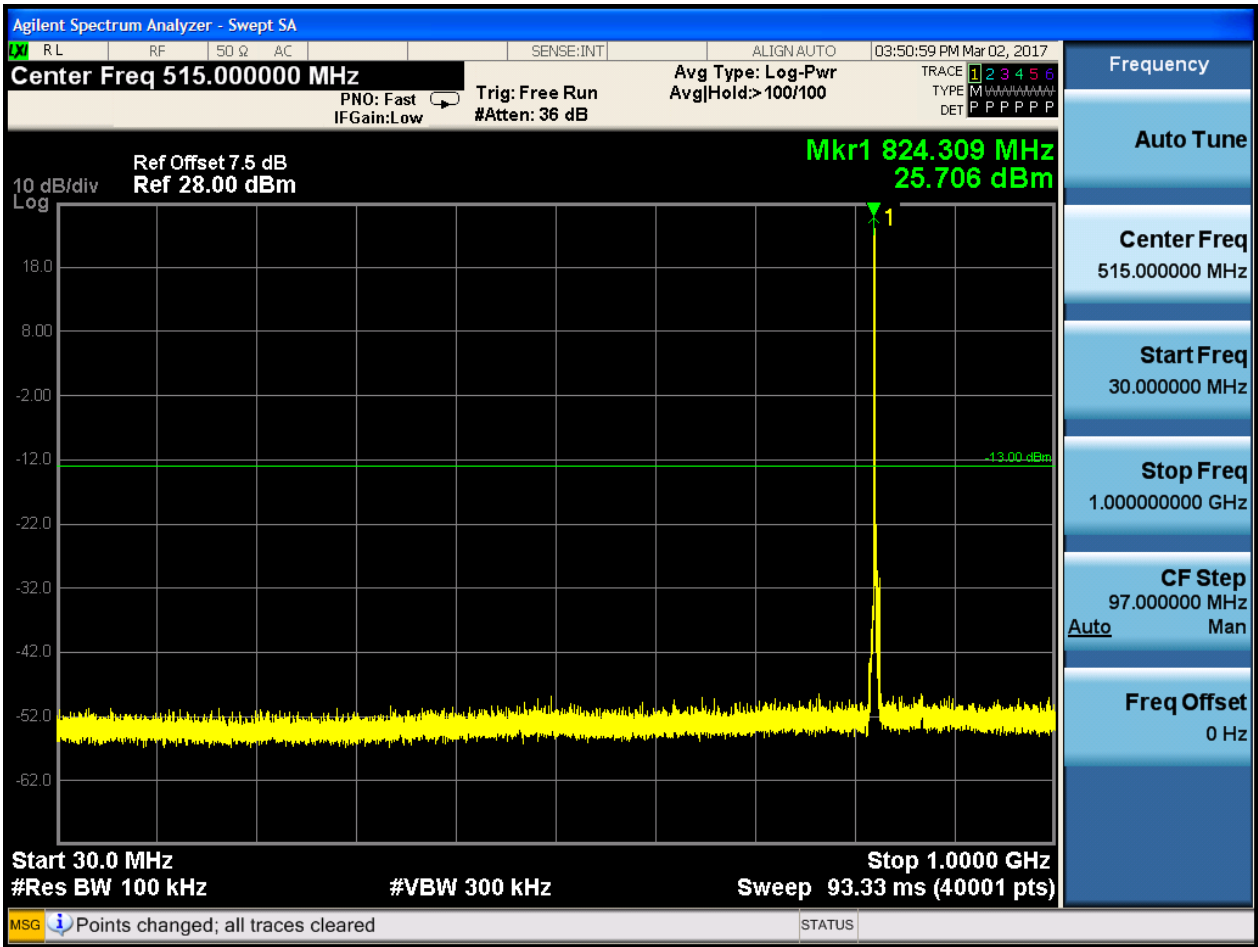
6.1.1.1.2 Test Bandwidth = 3

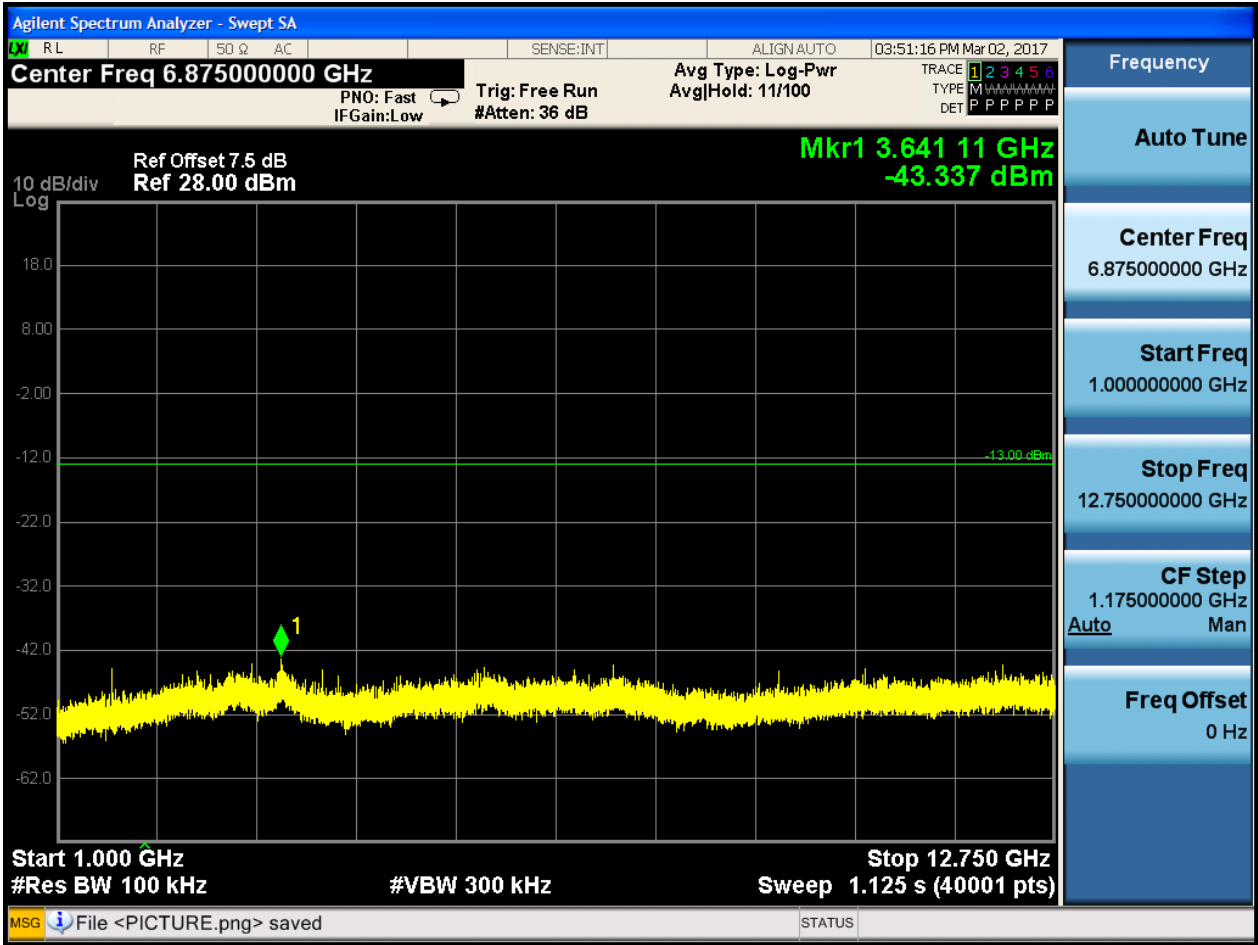
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





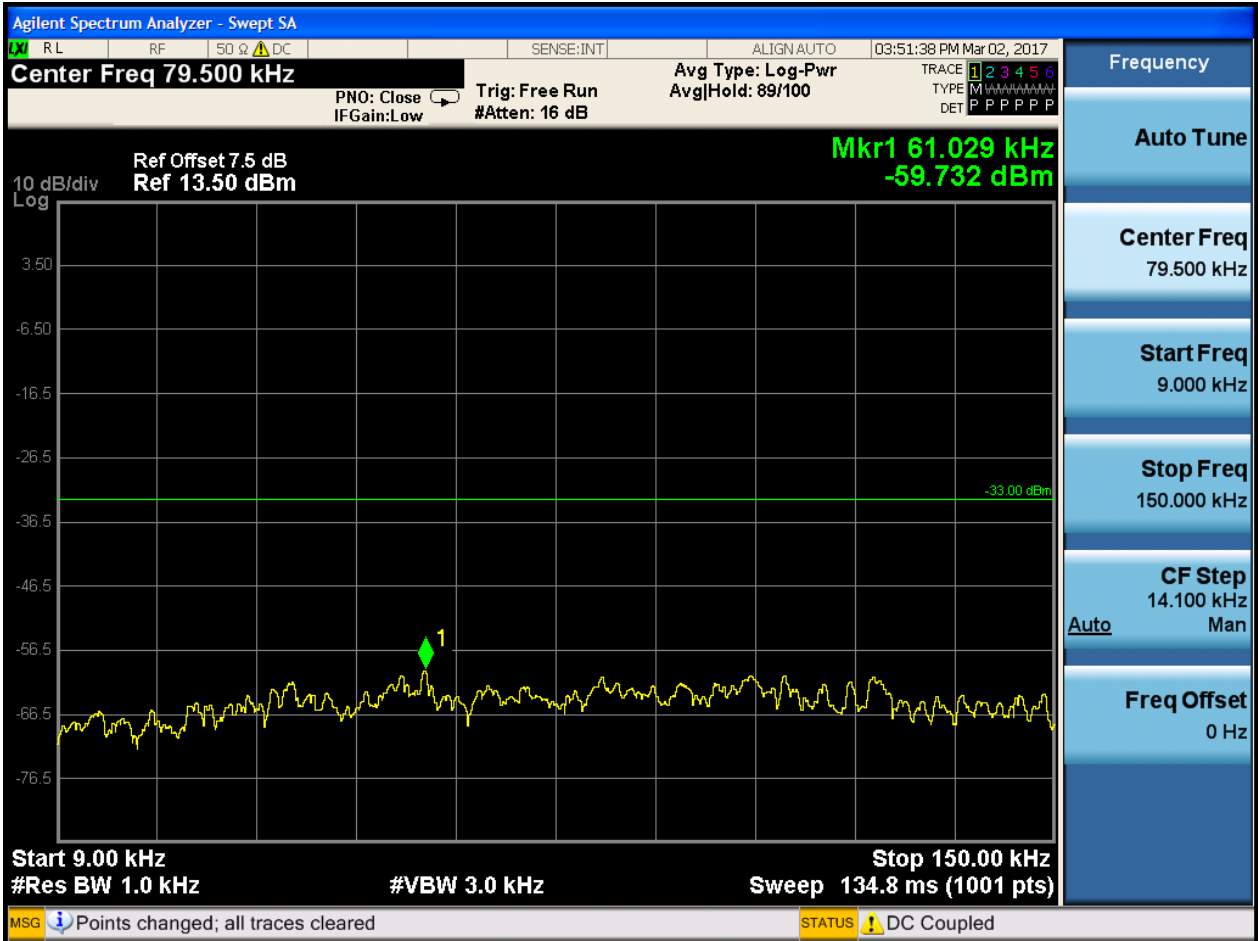


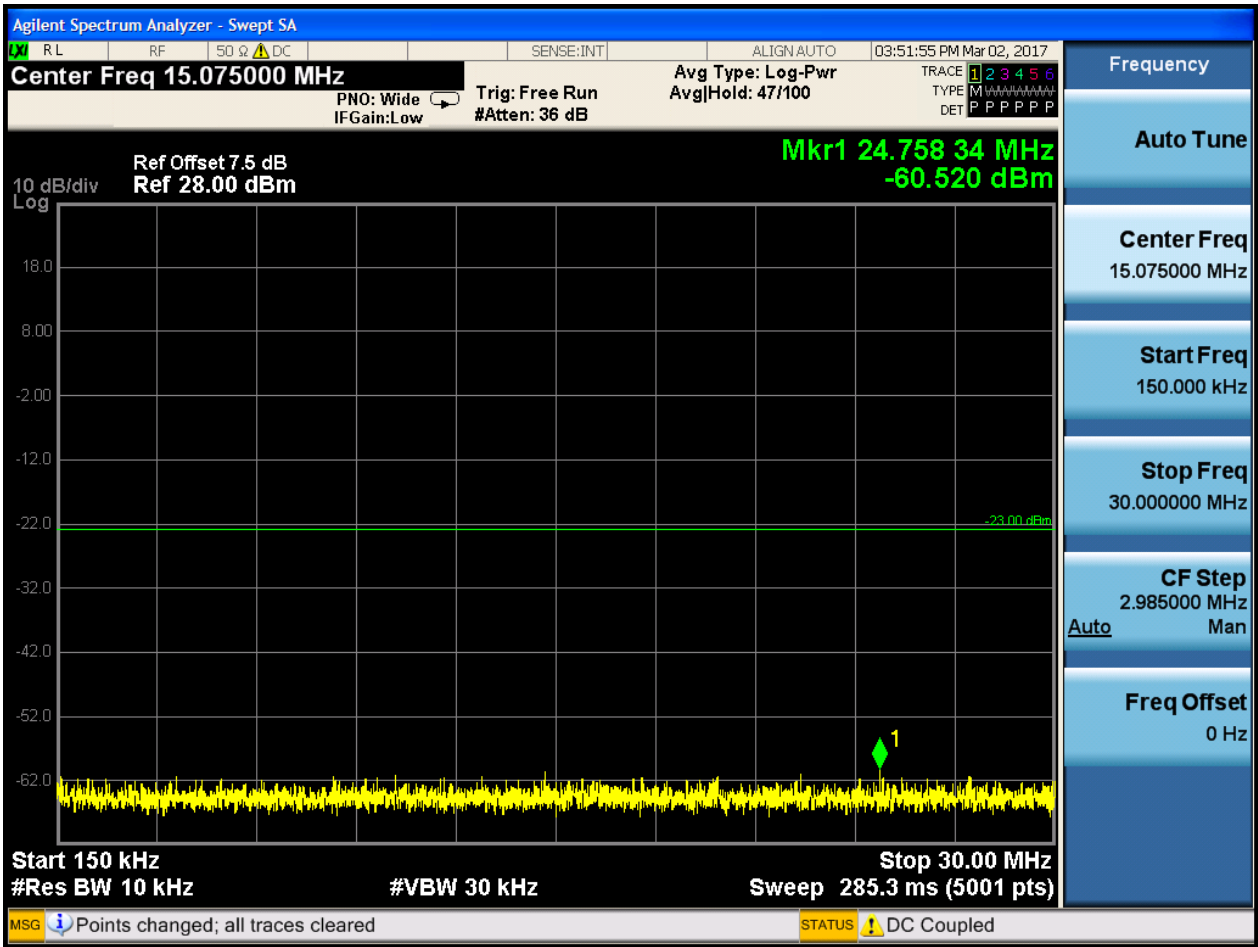


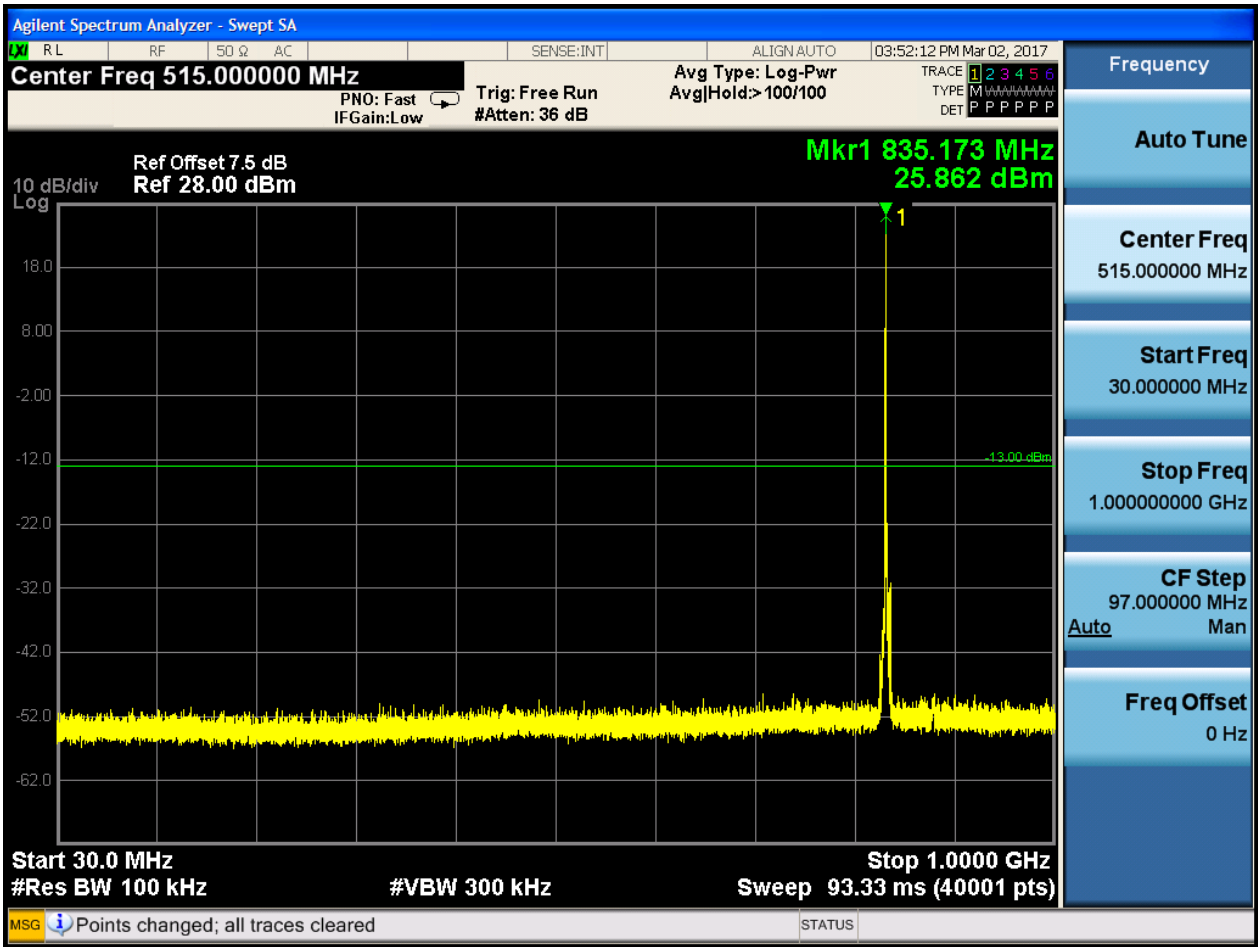


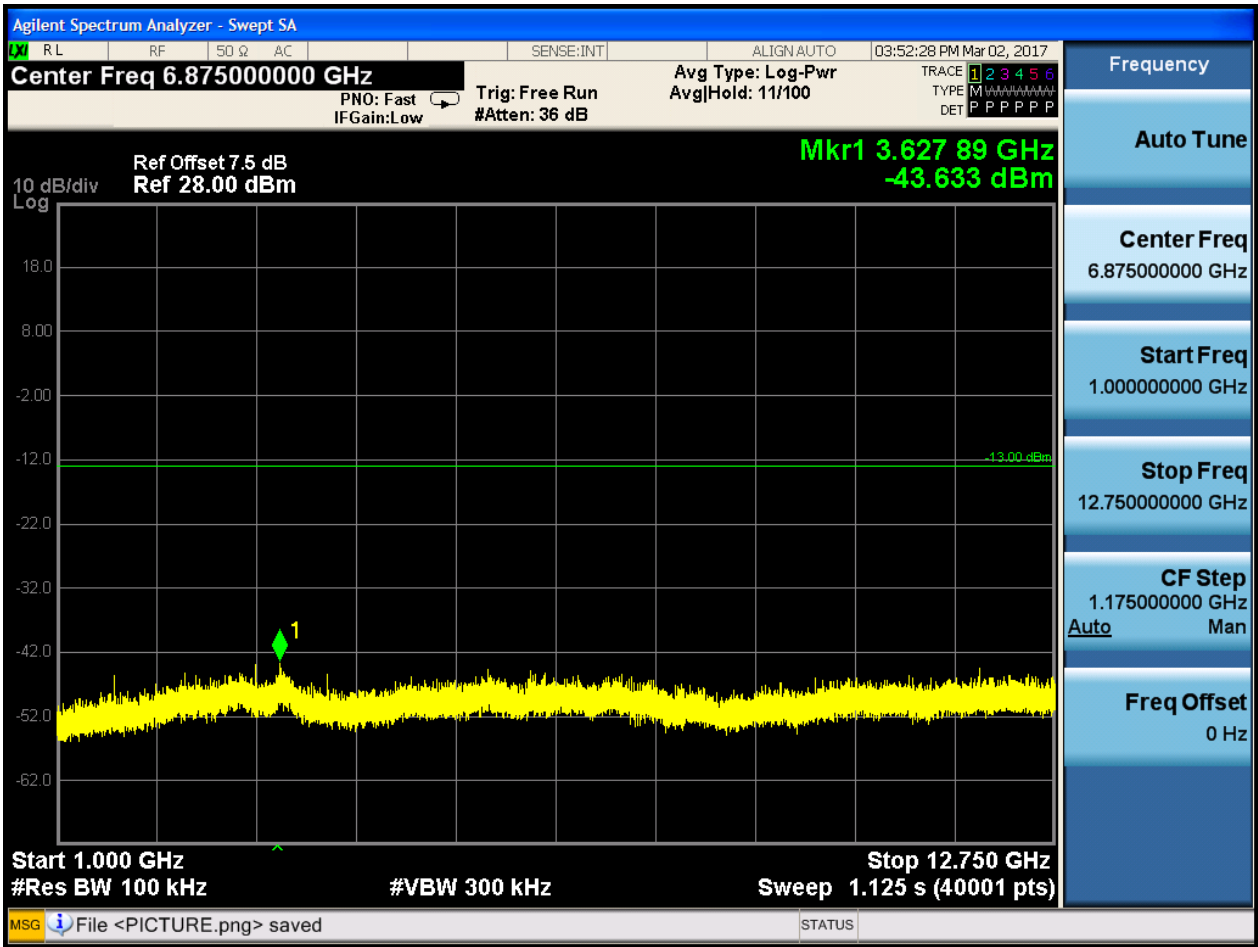
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





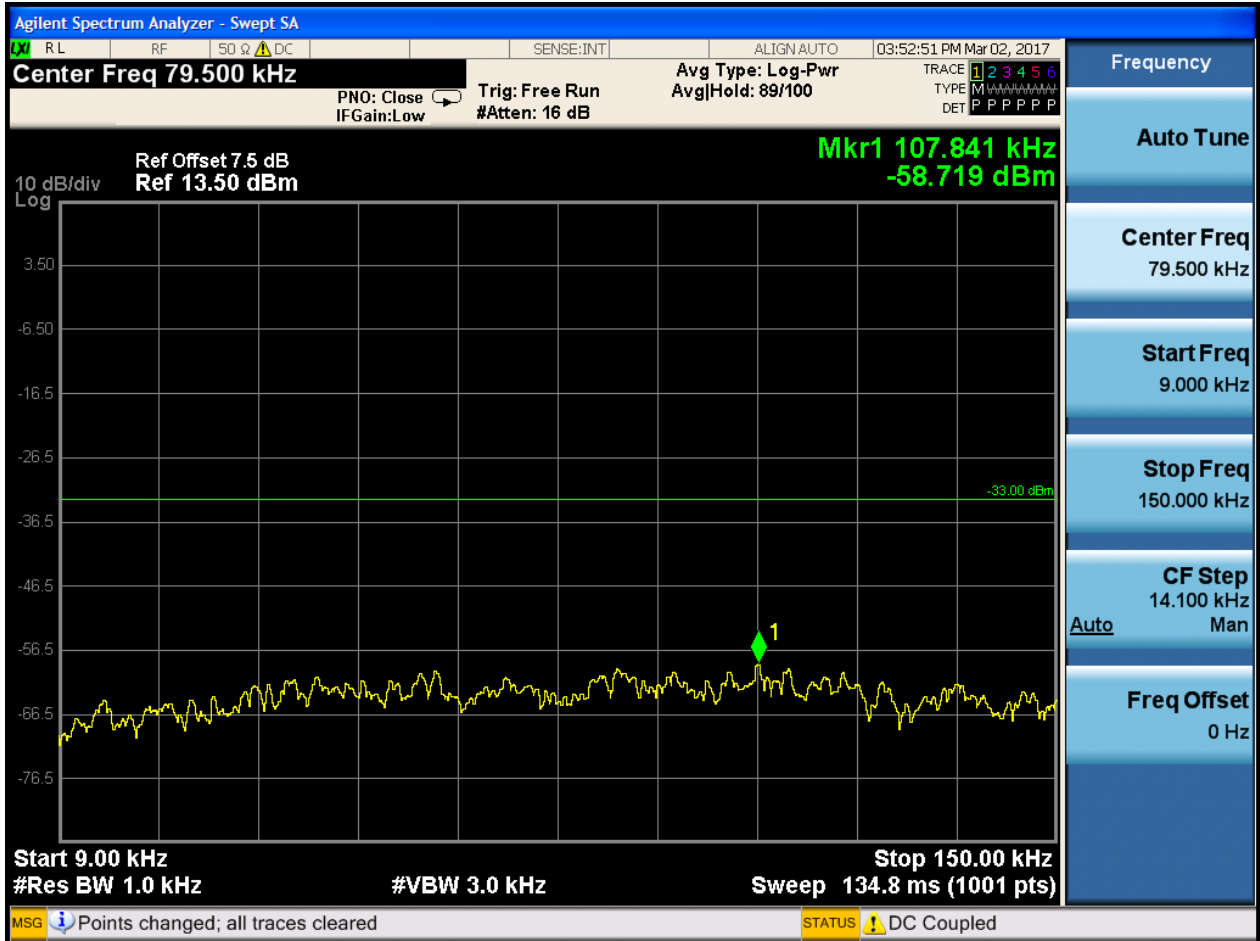


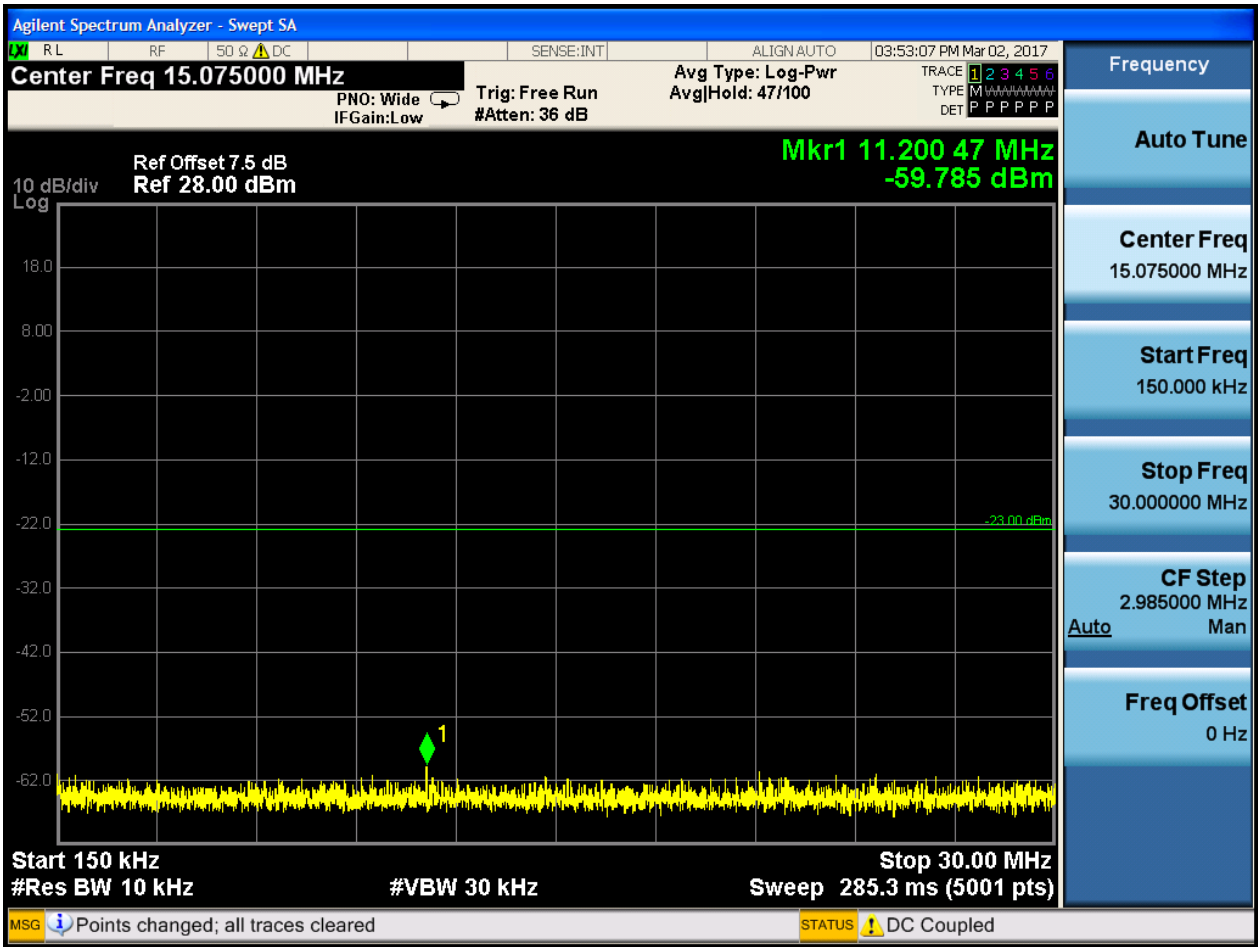


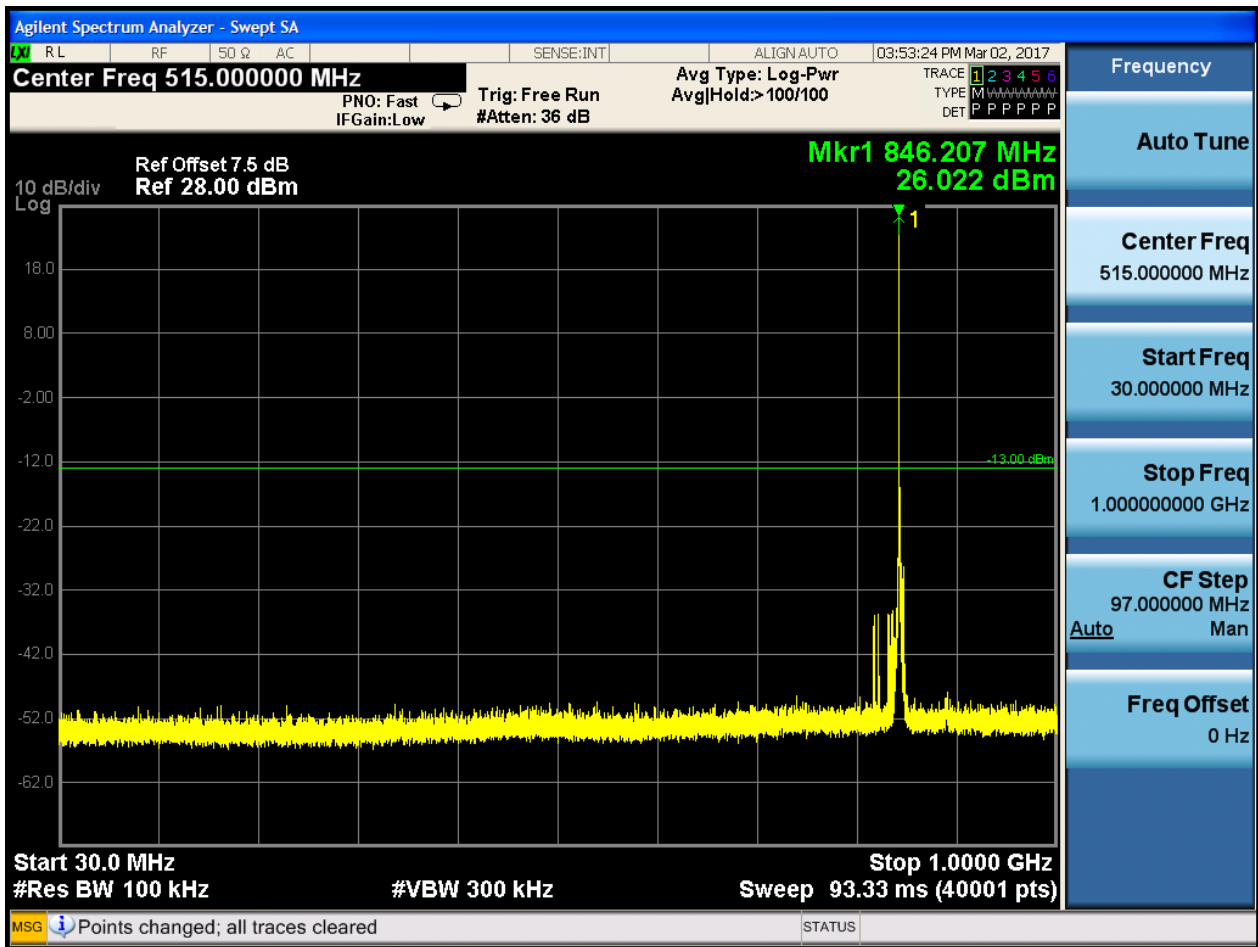


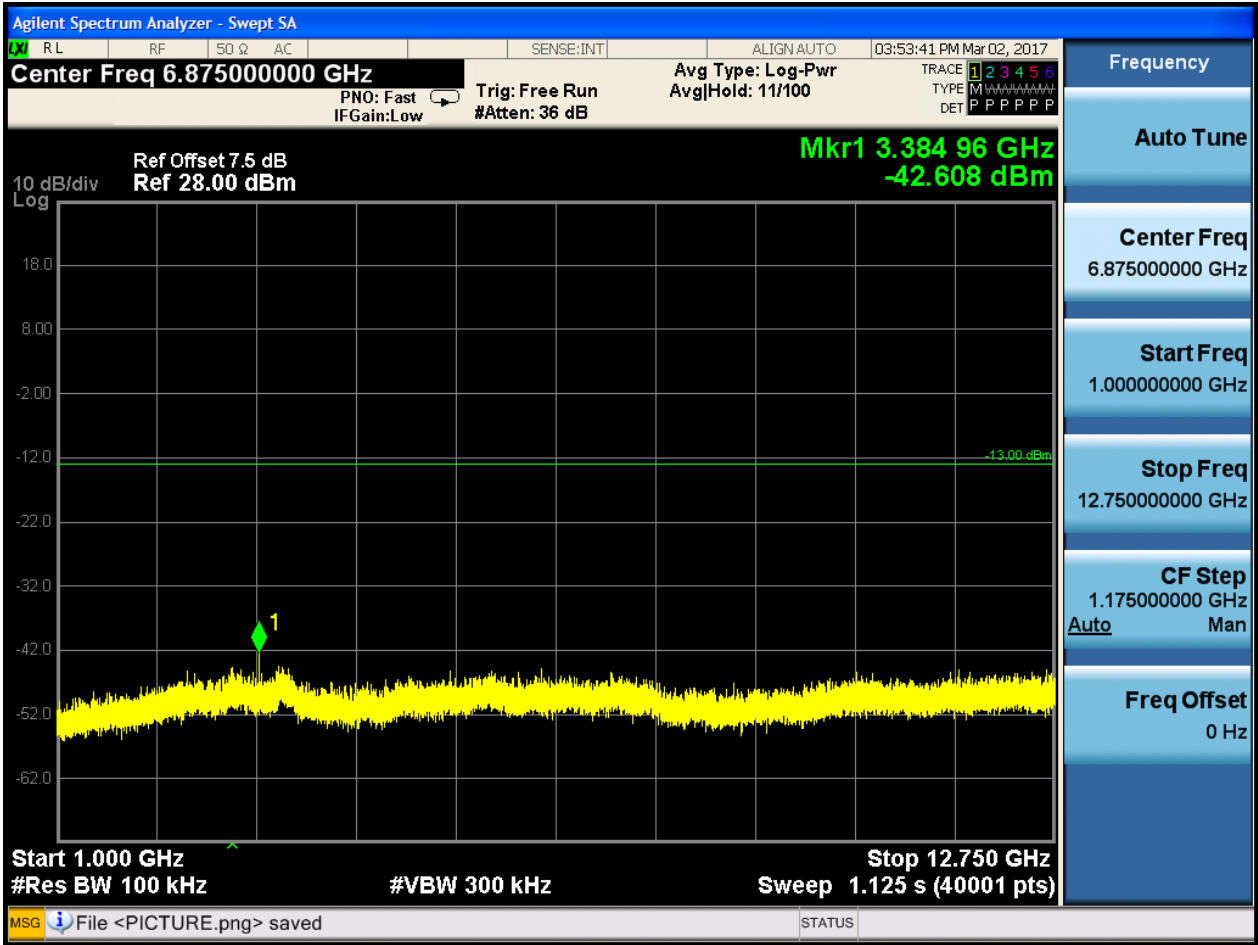
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







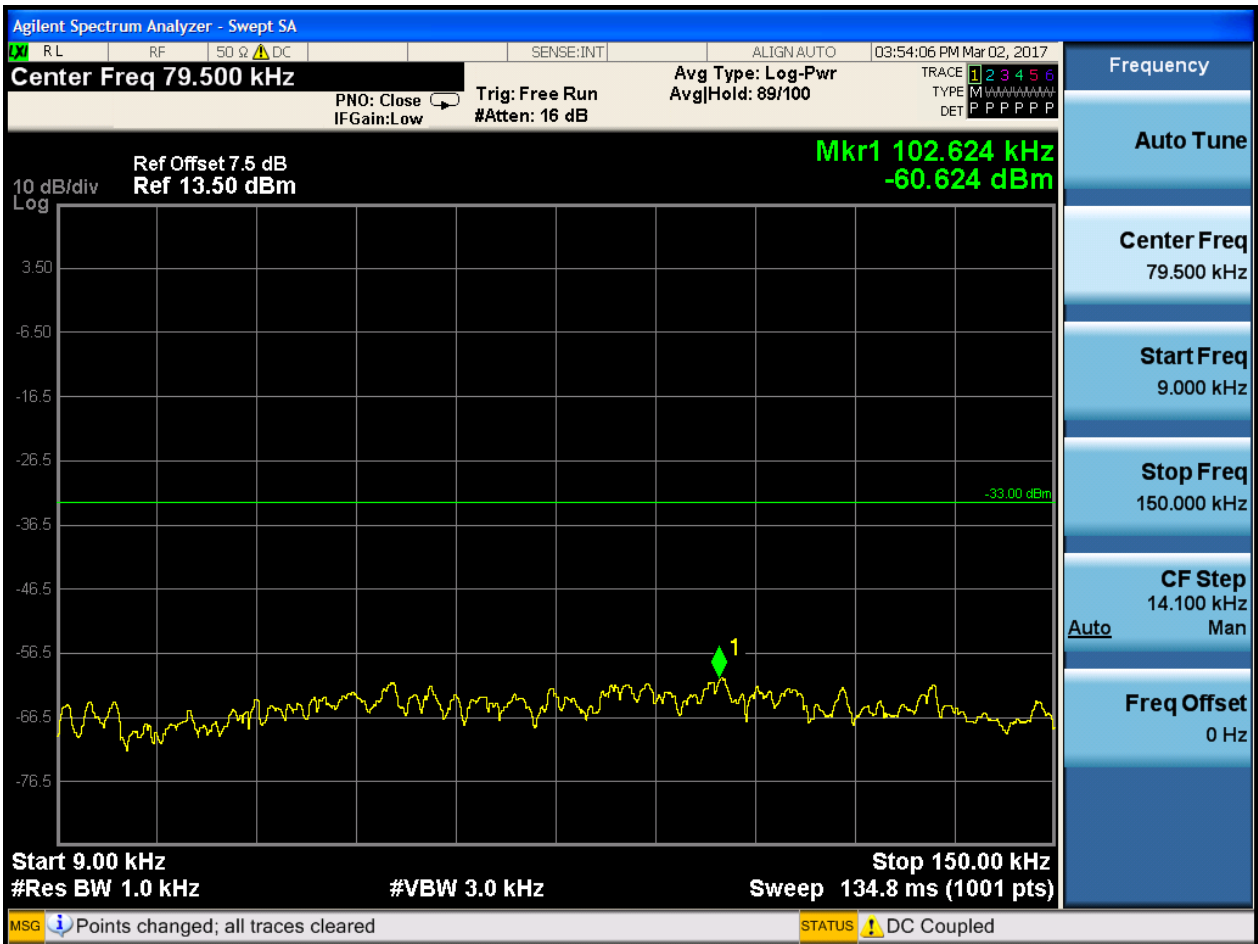


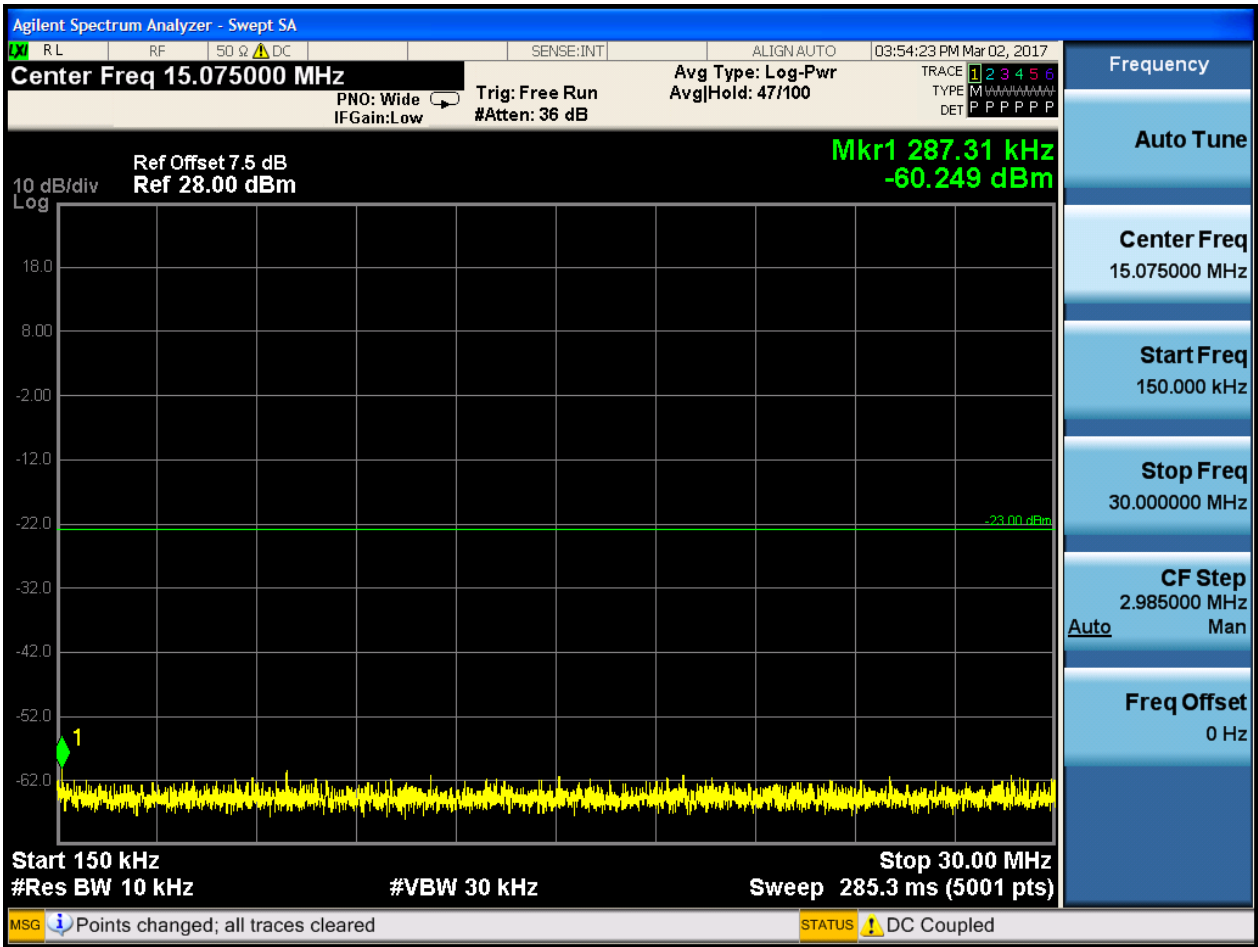


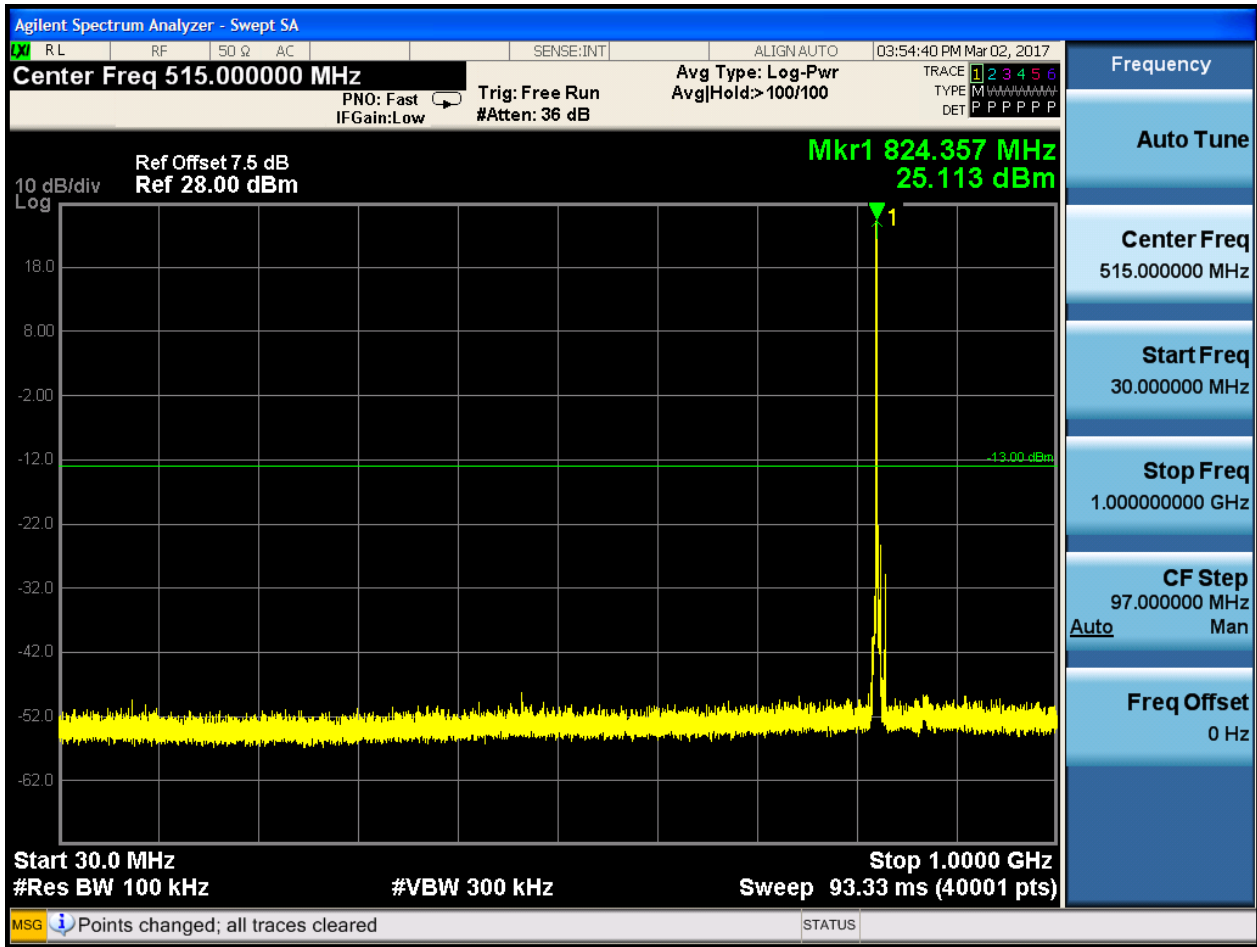
6.1.1.1.3 Test Bandwidth = 5

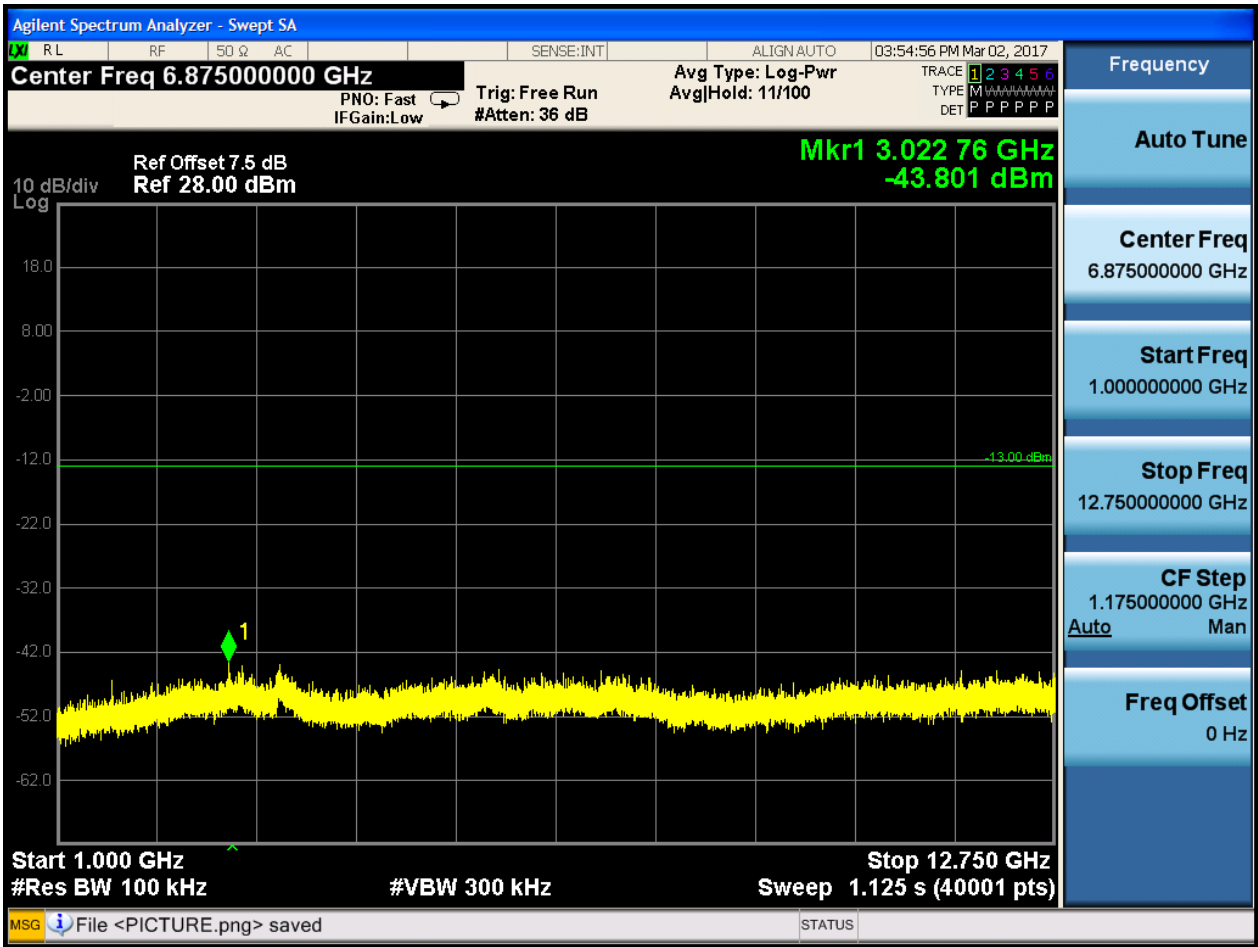
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





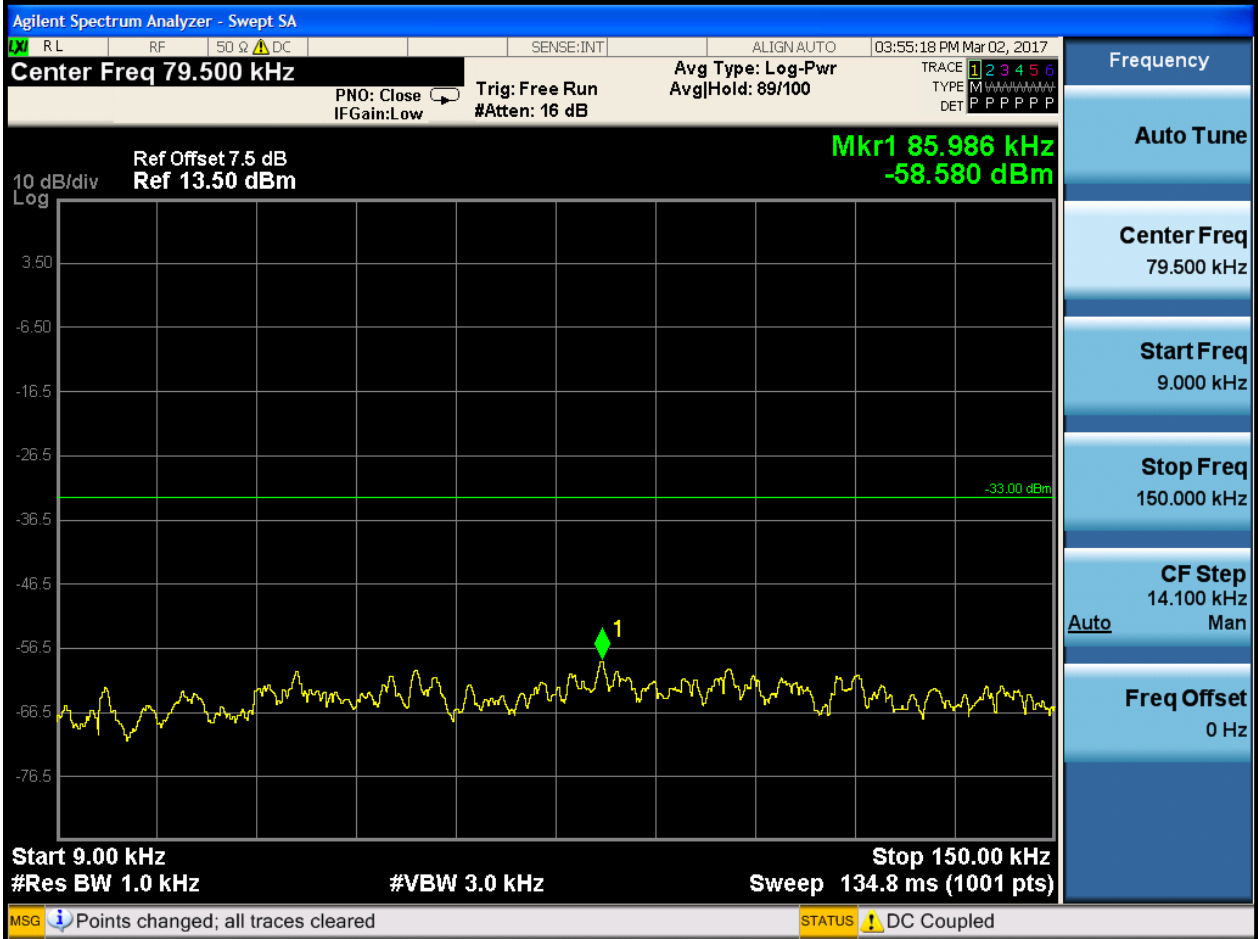


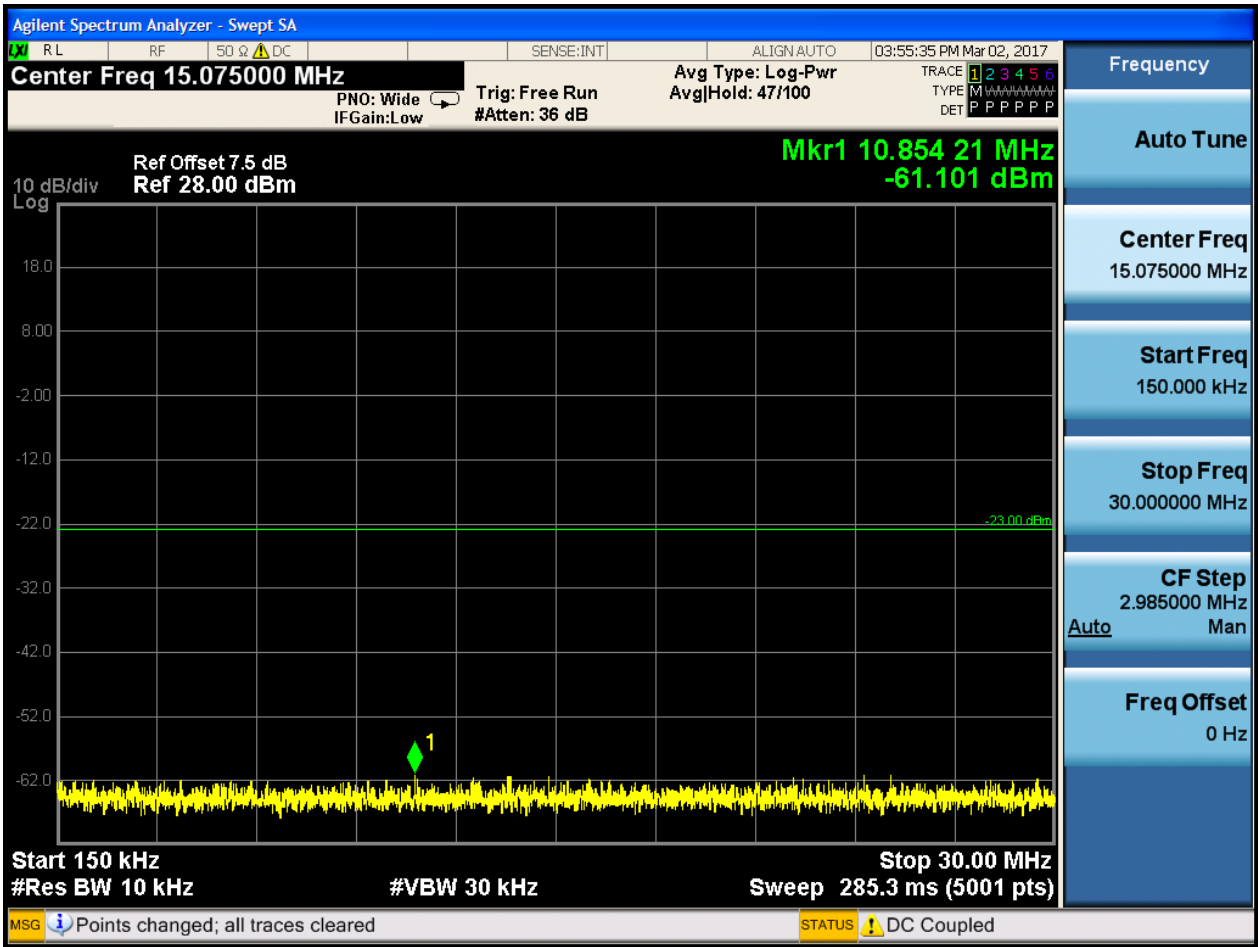


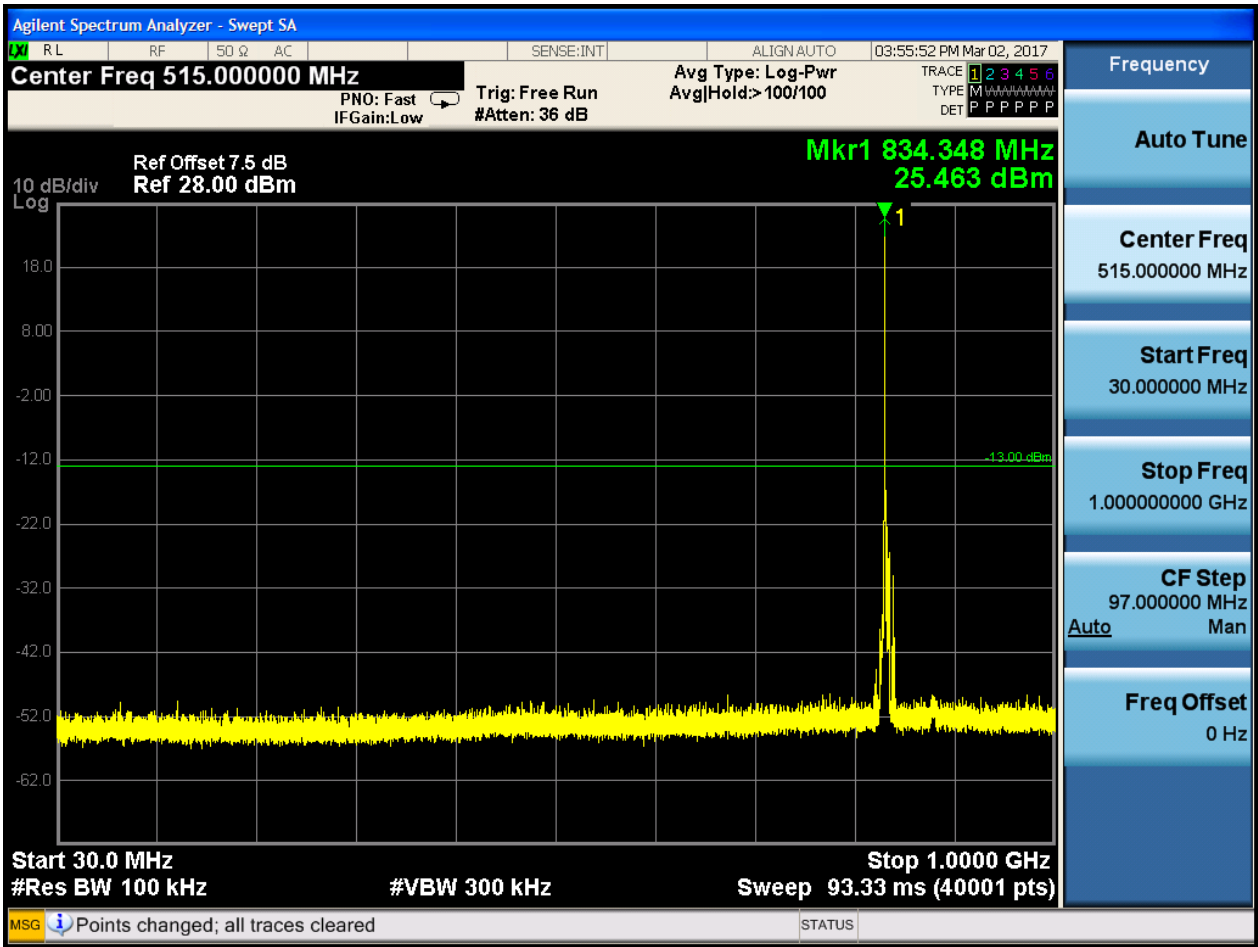


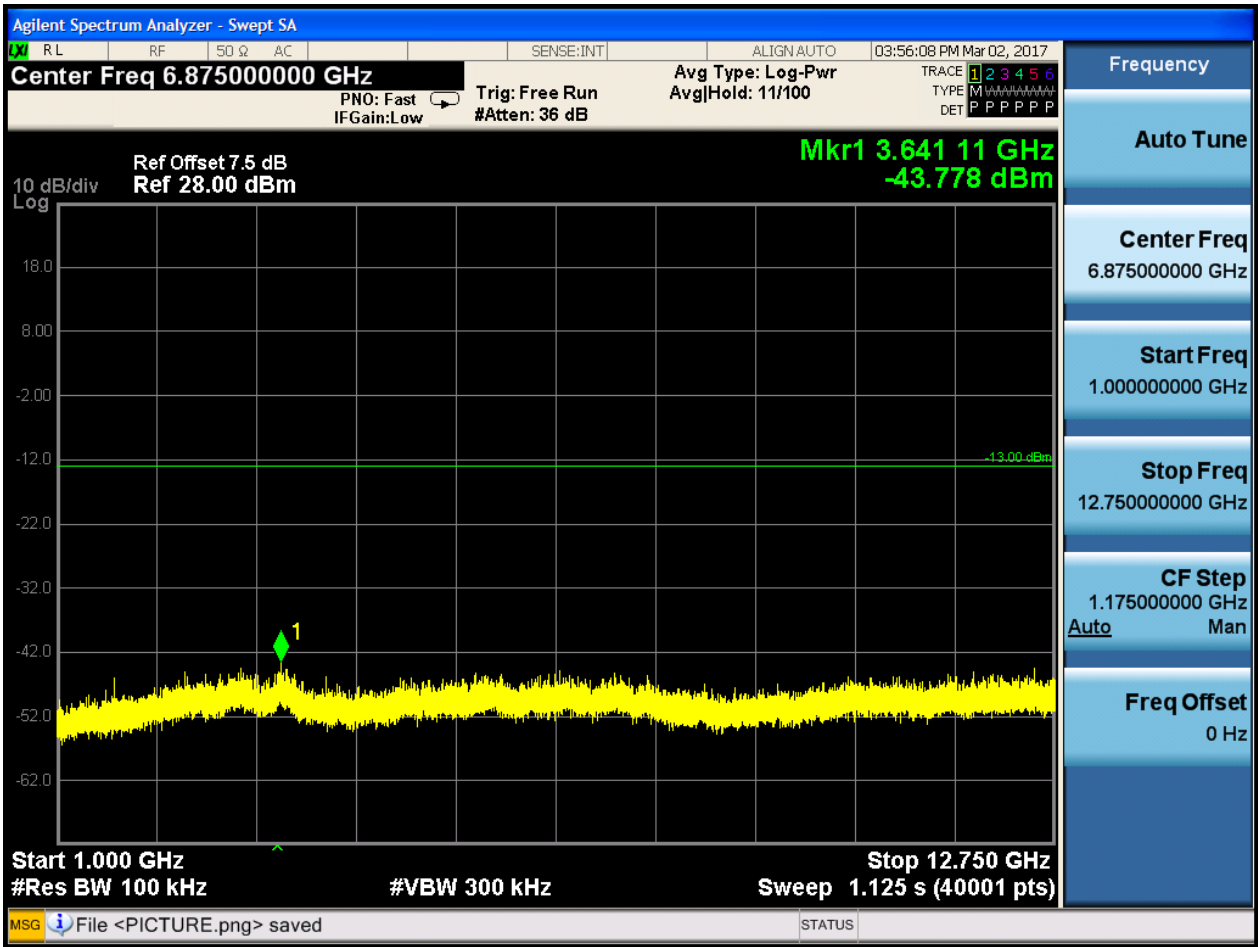
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





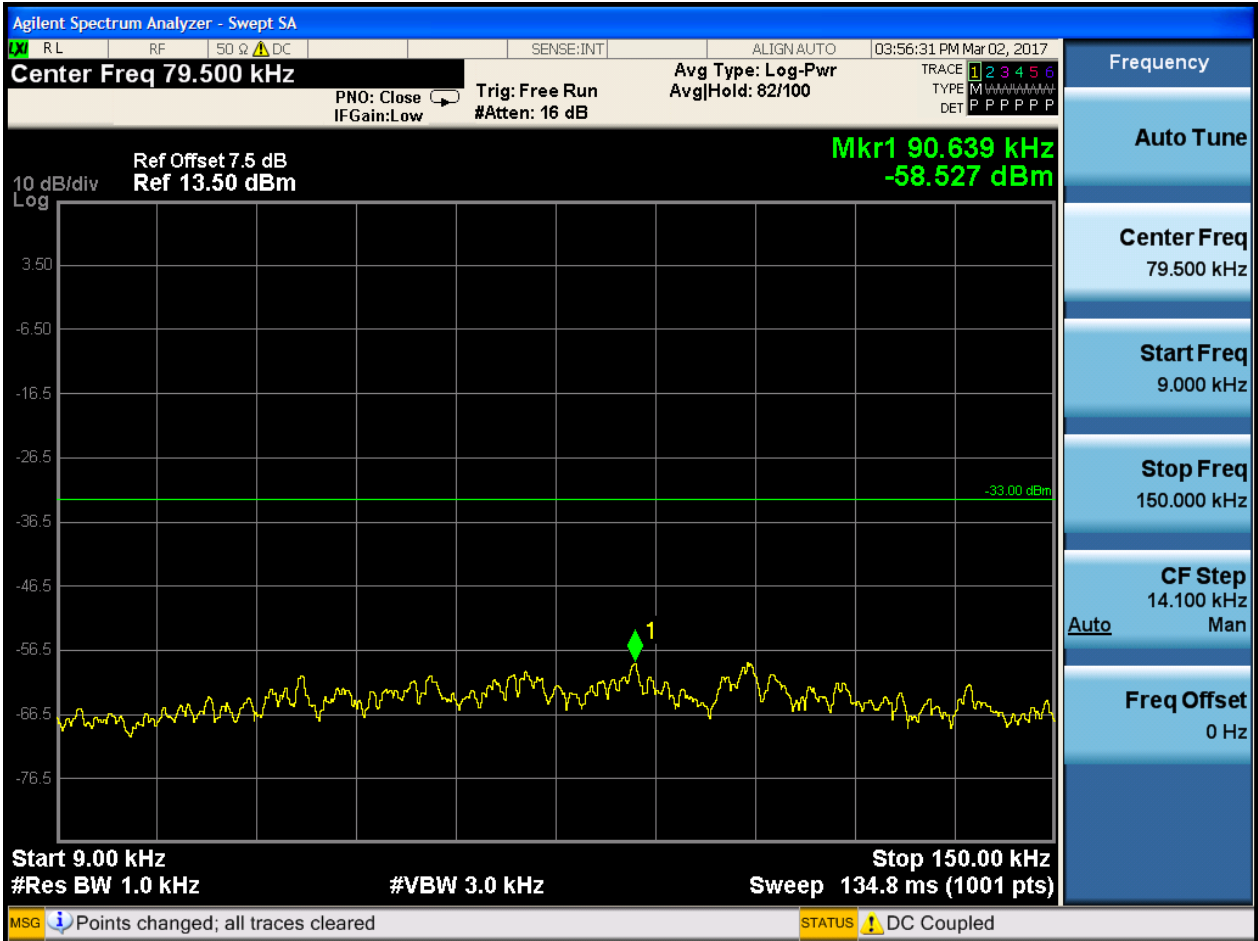


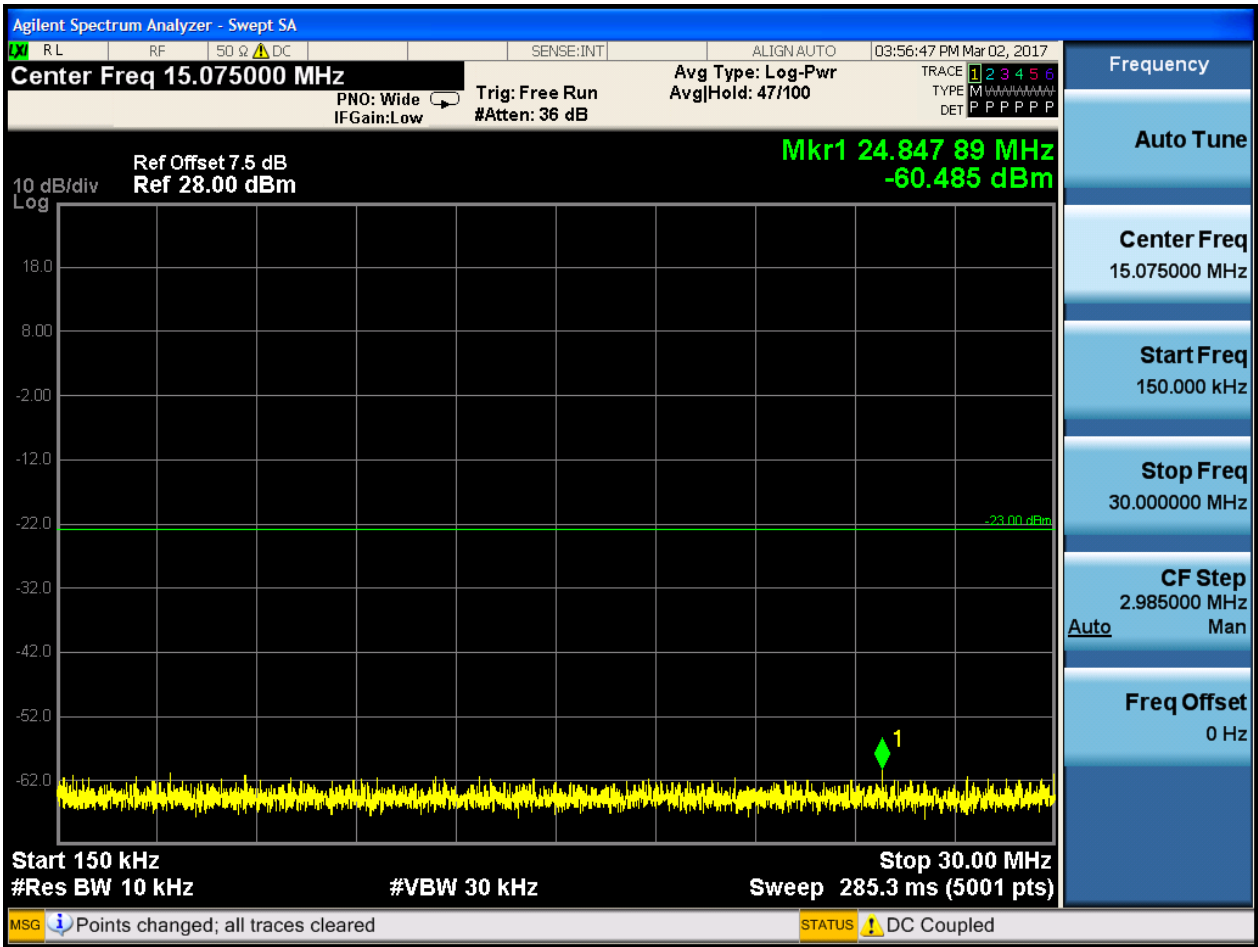


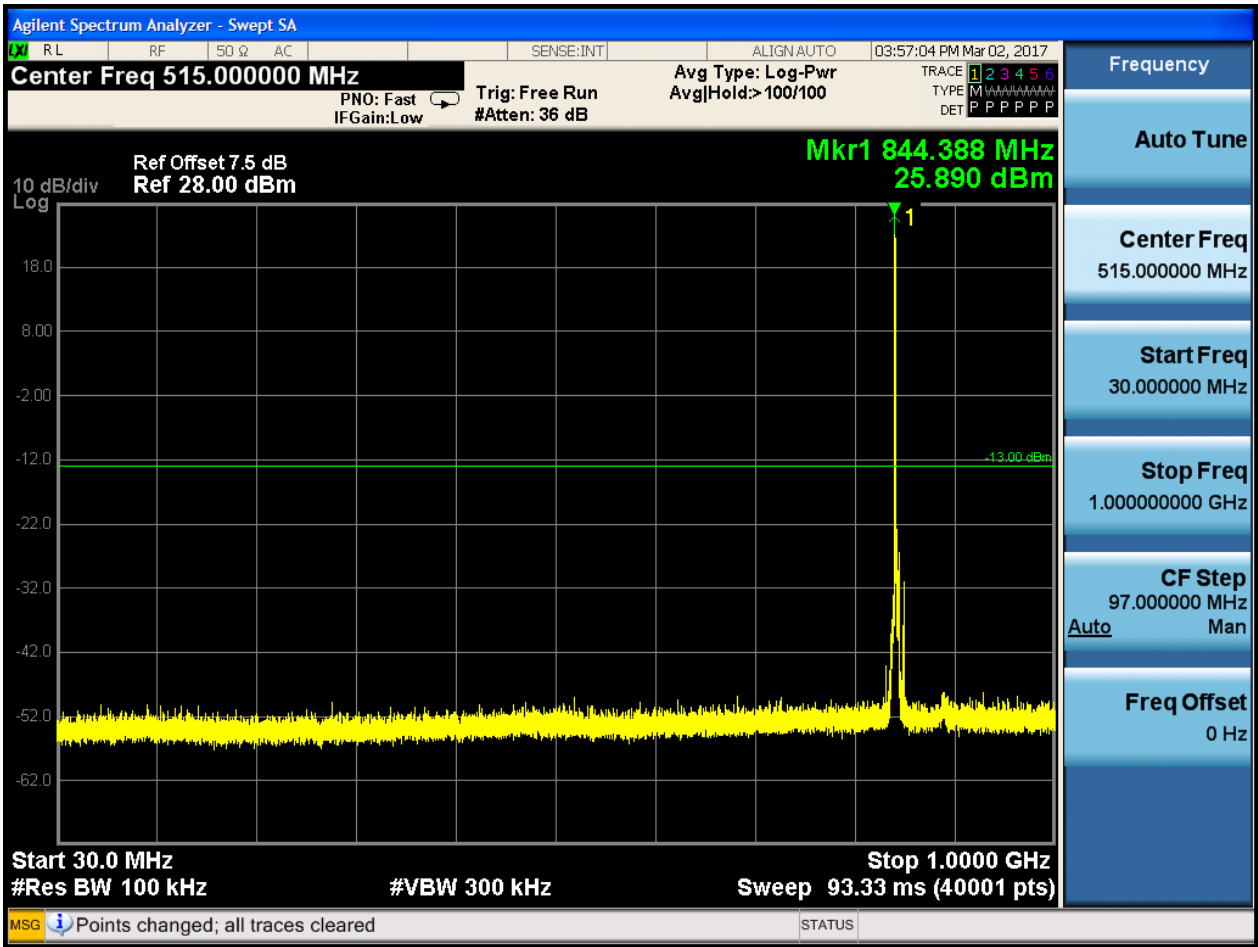


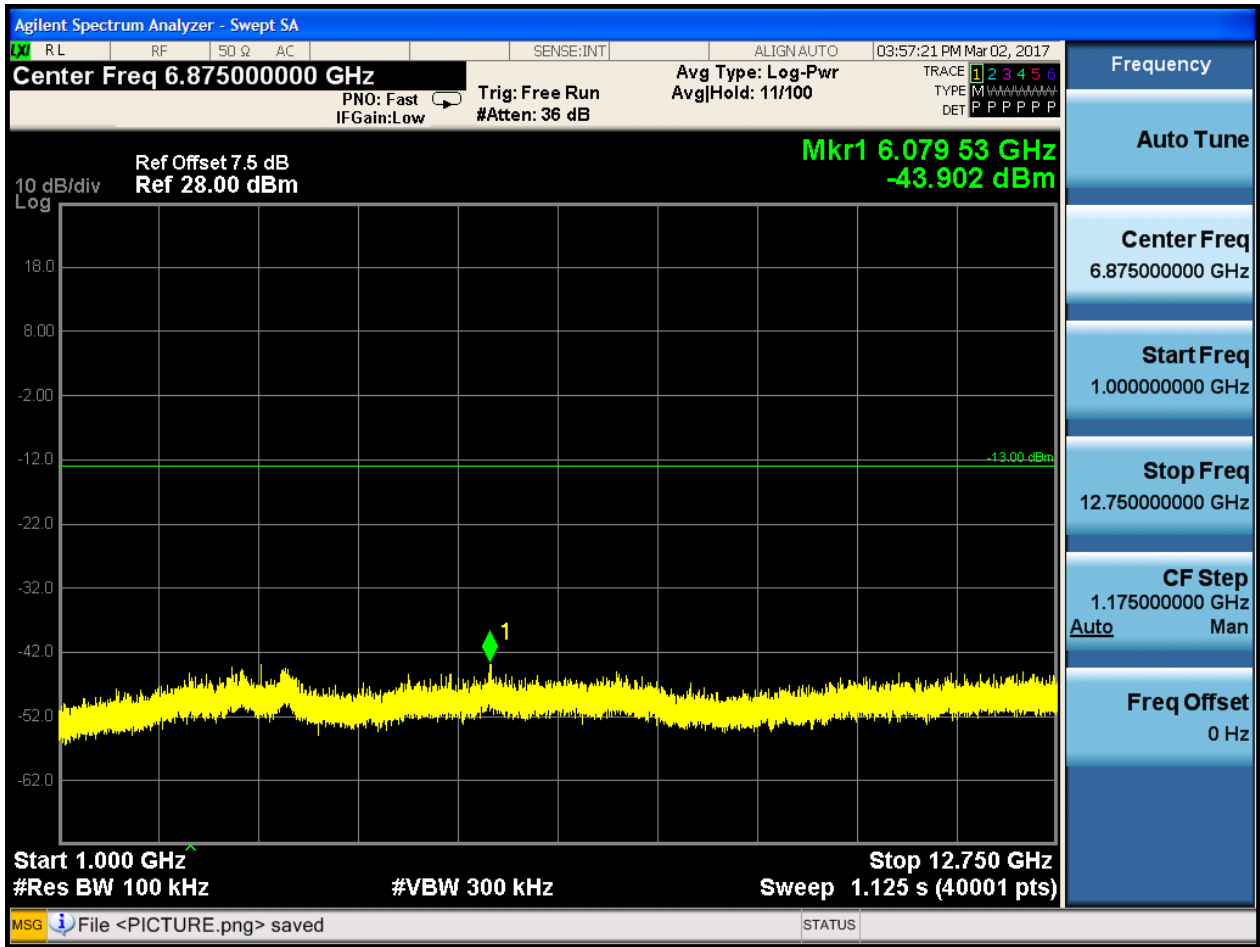
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







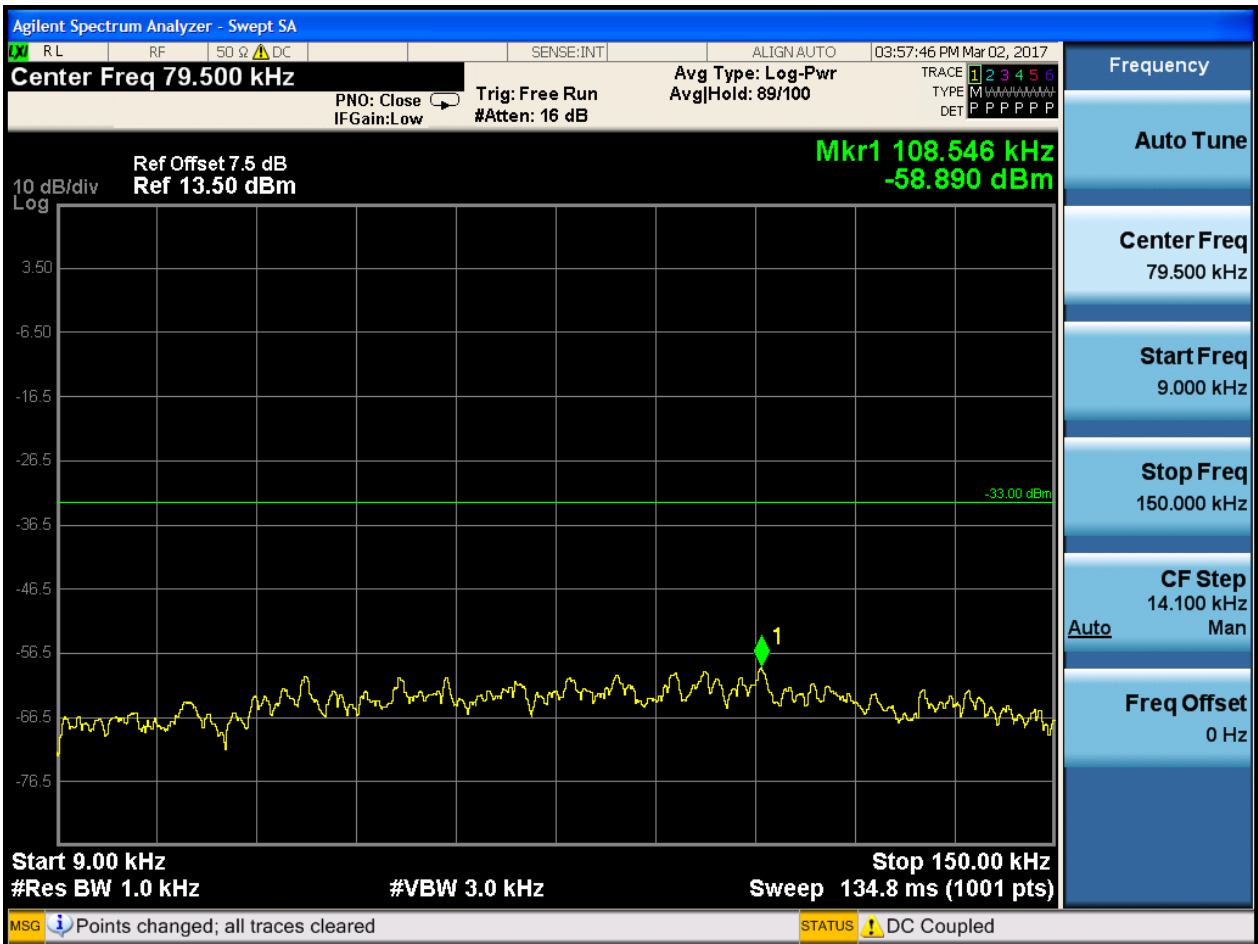


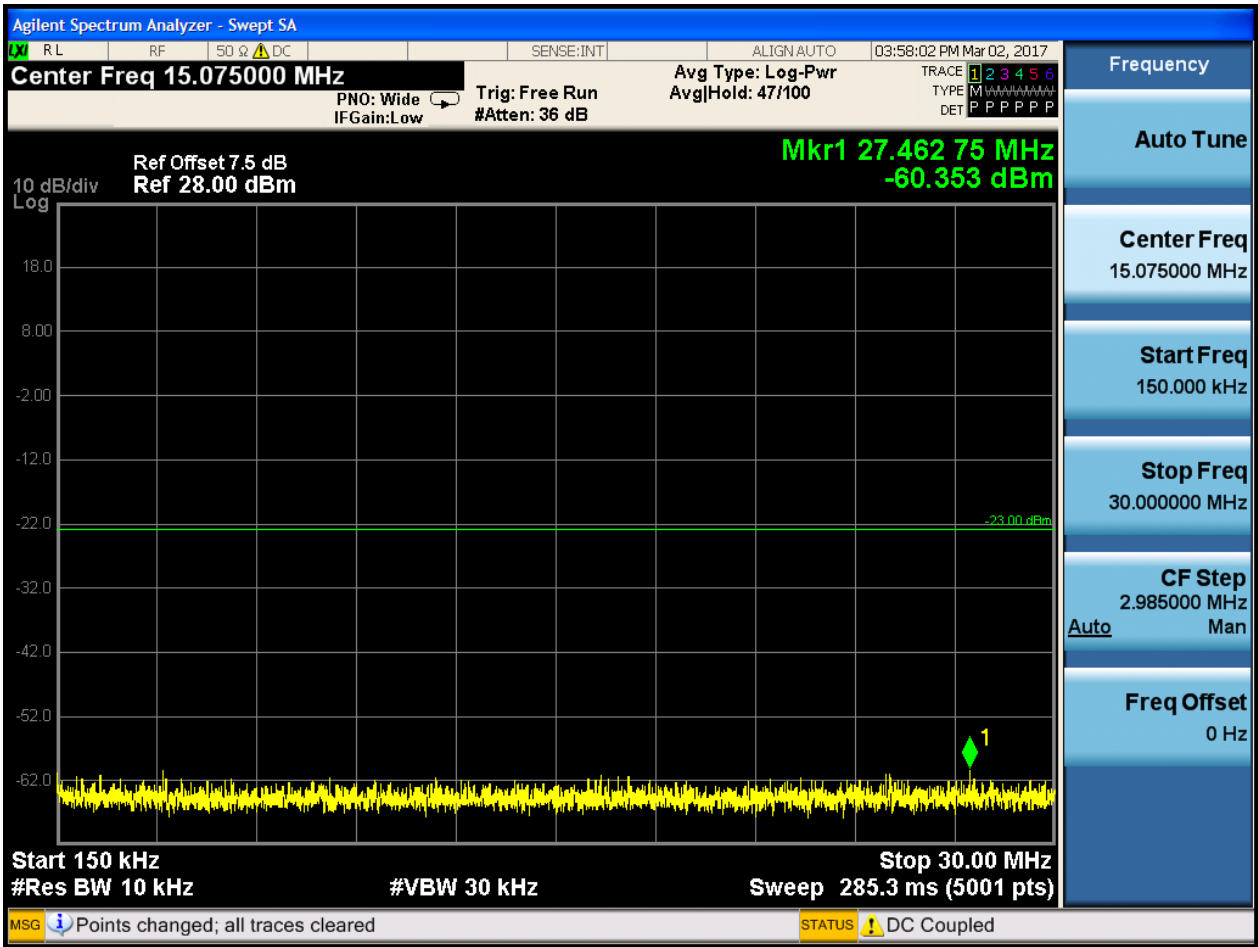


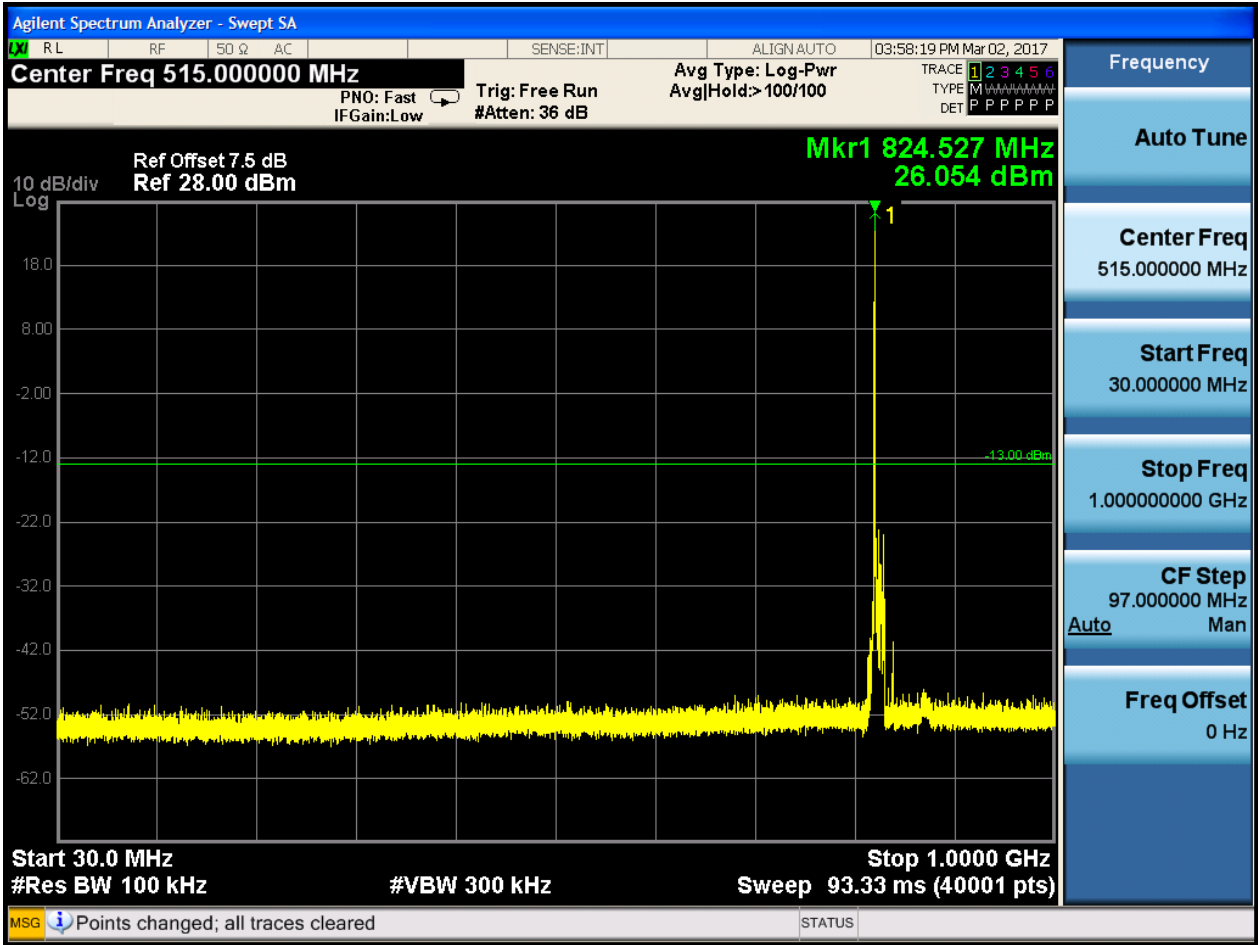
6.1.1.1.4 Test Bandwidth = 10

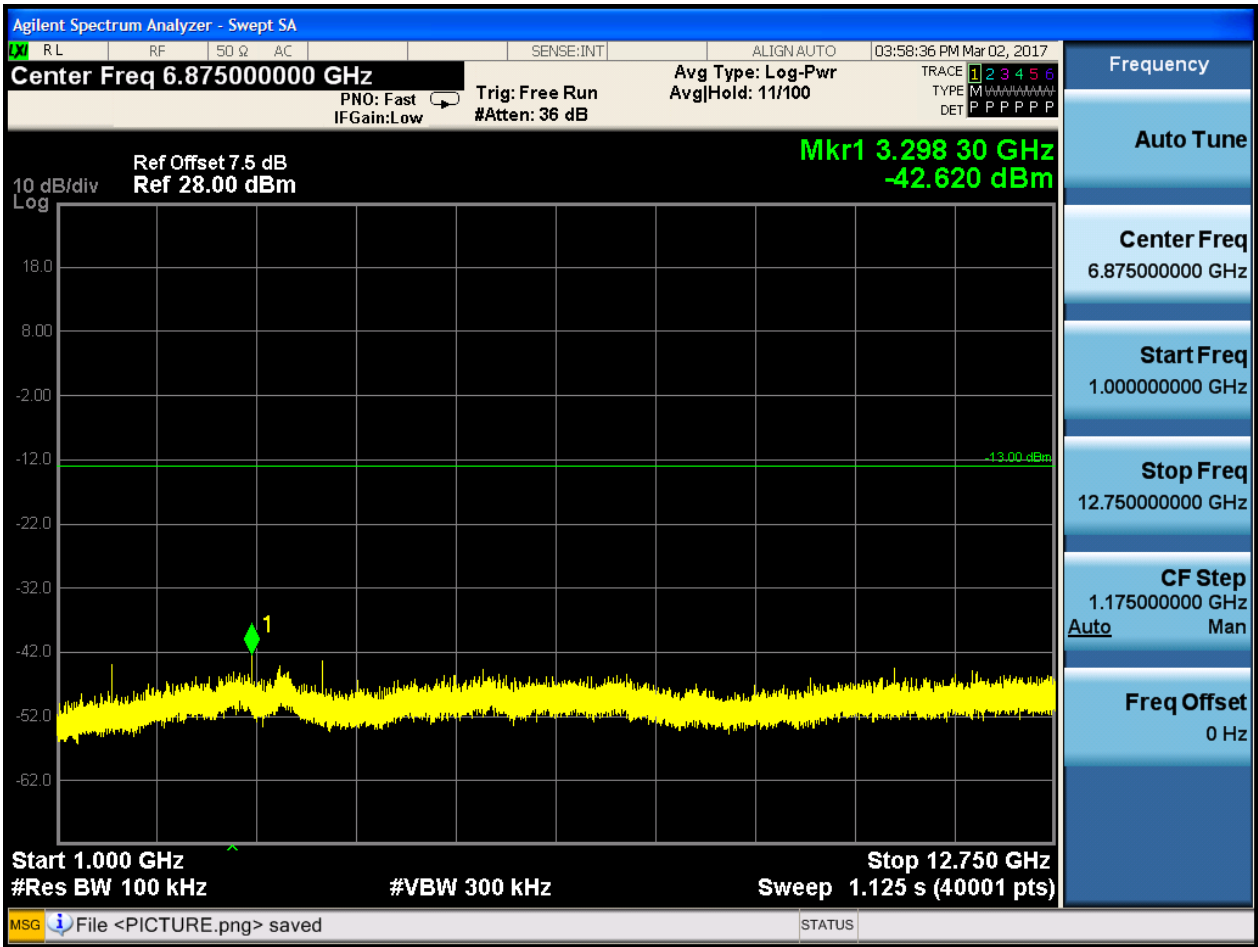
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





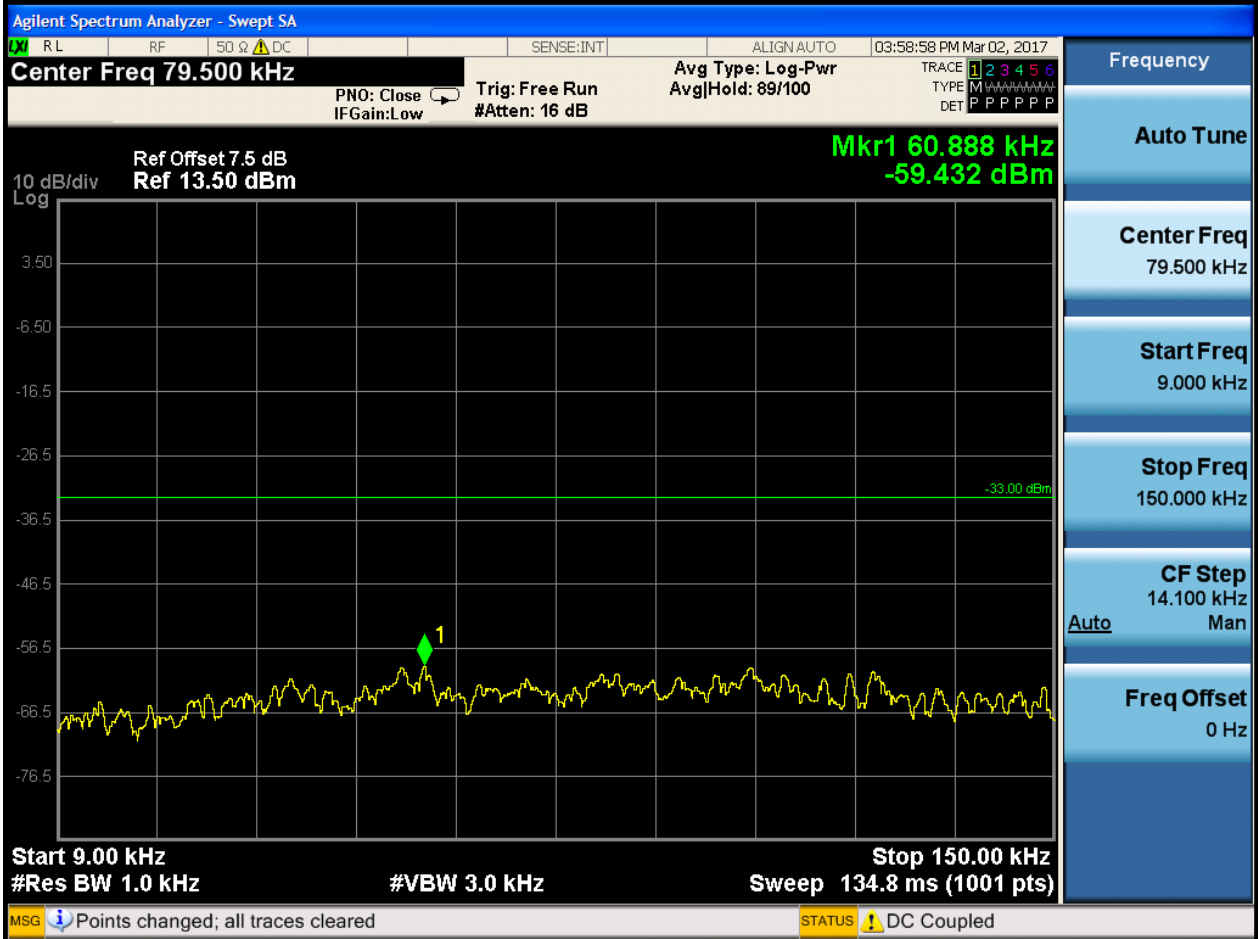


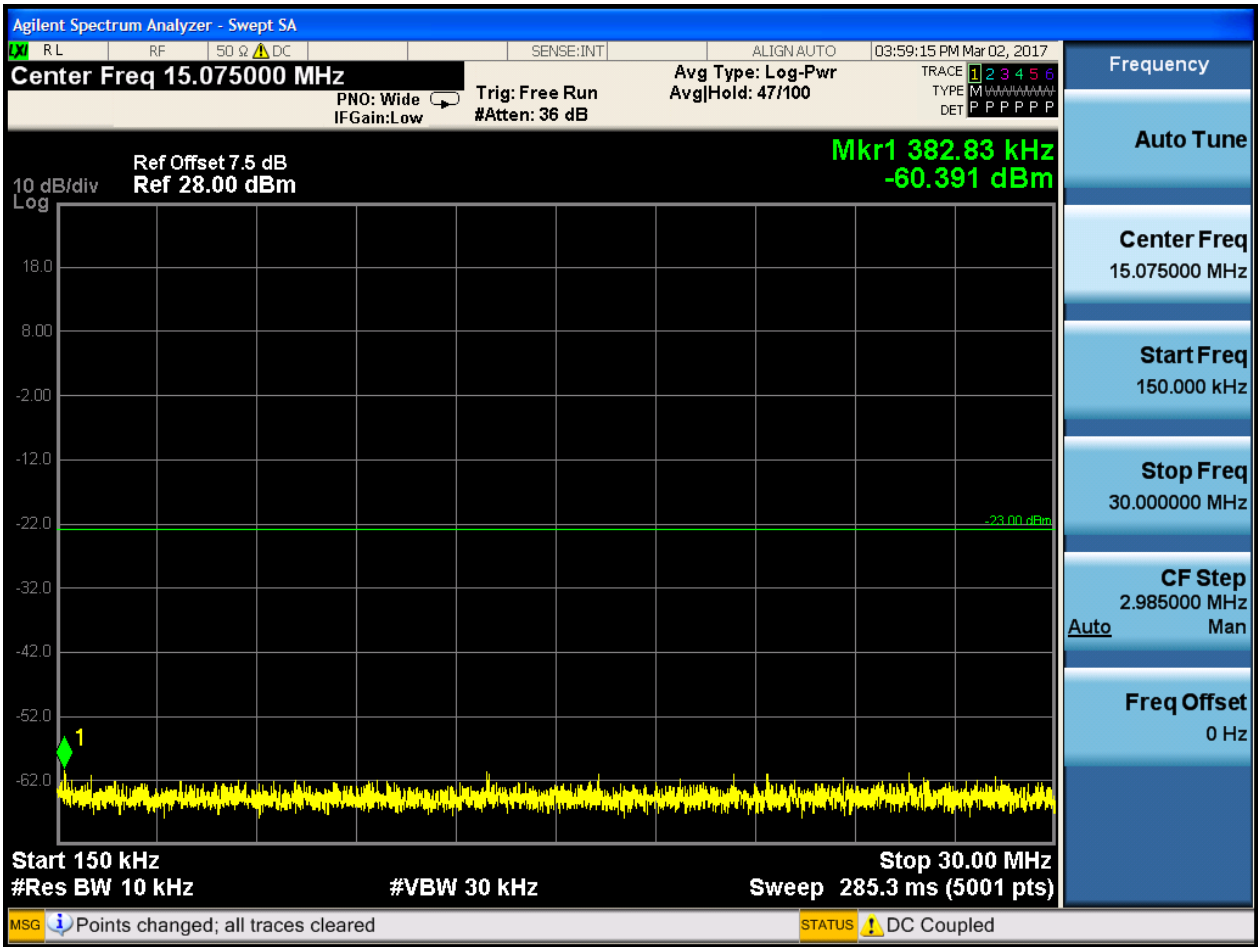


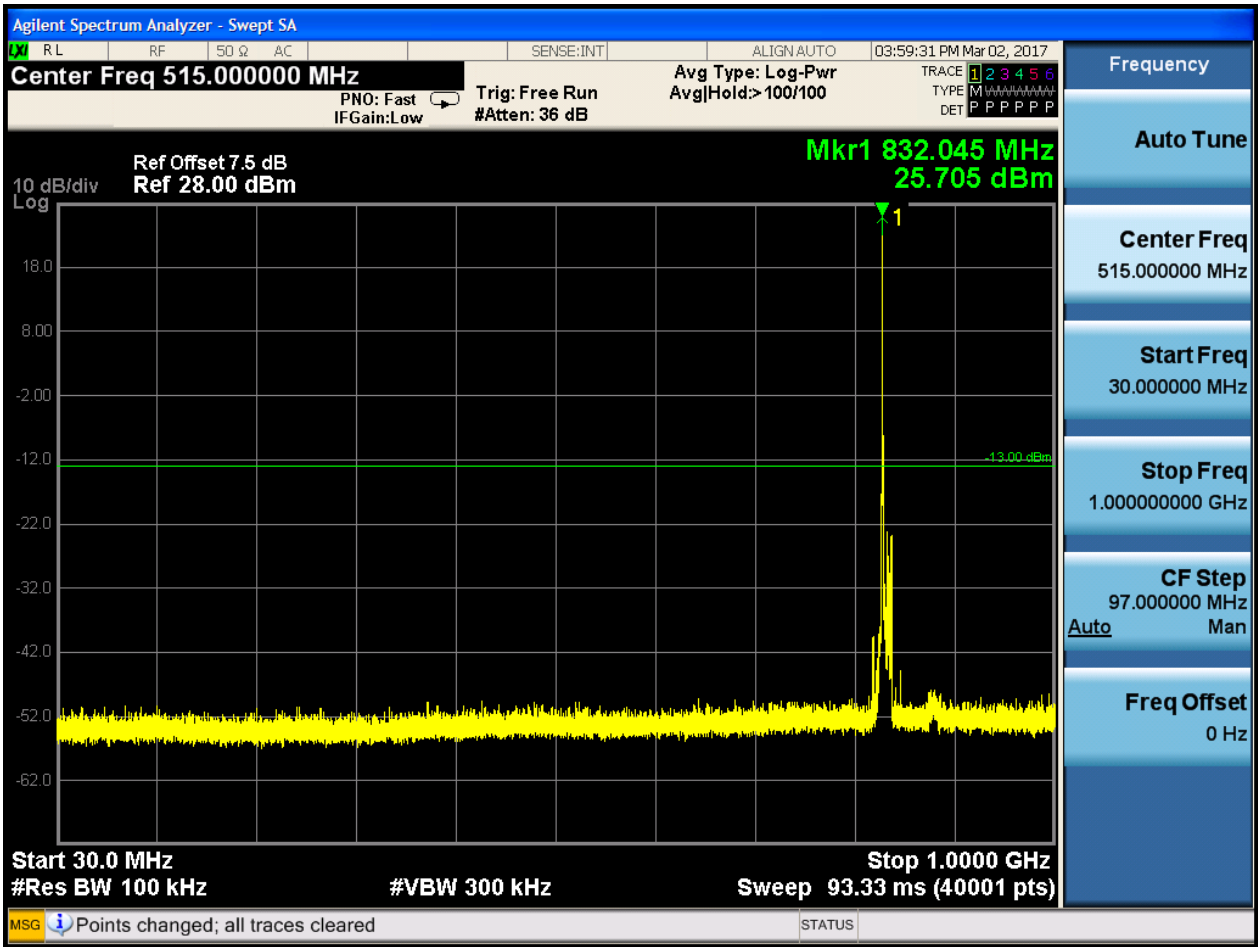


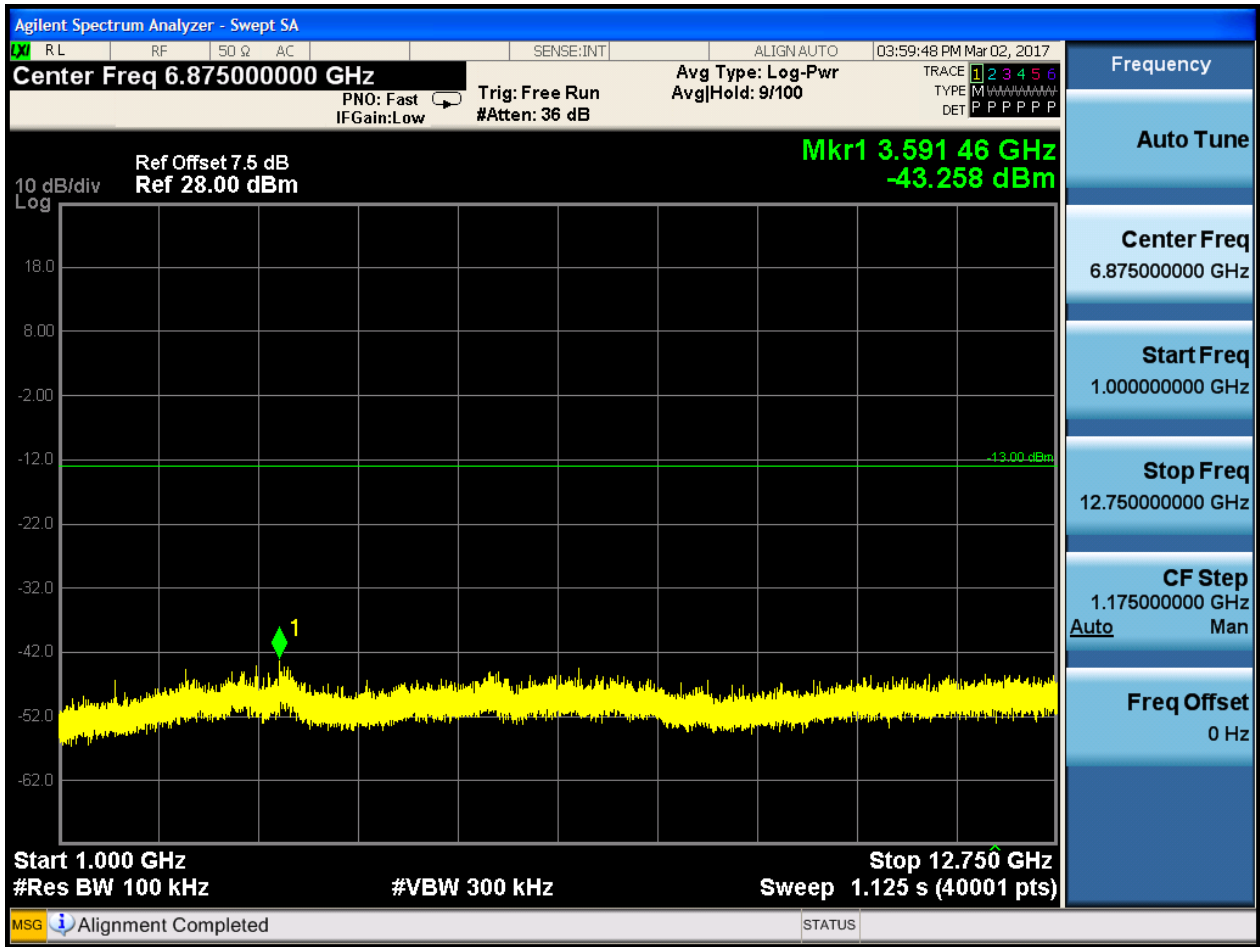
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





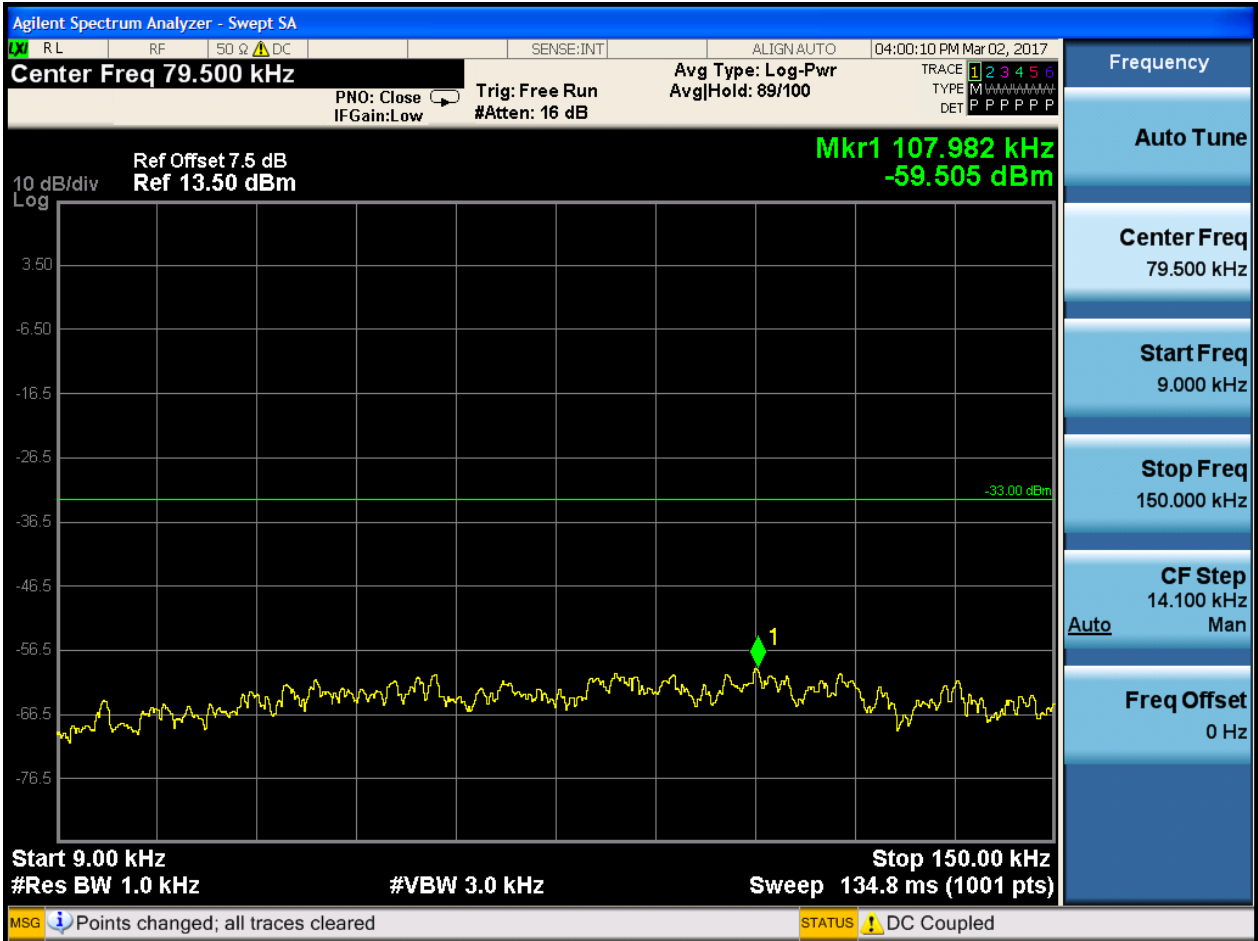


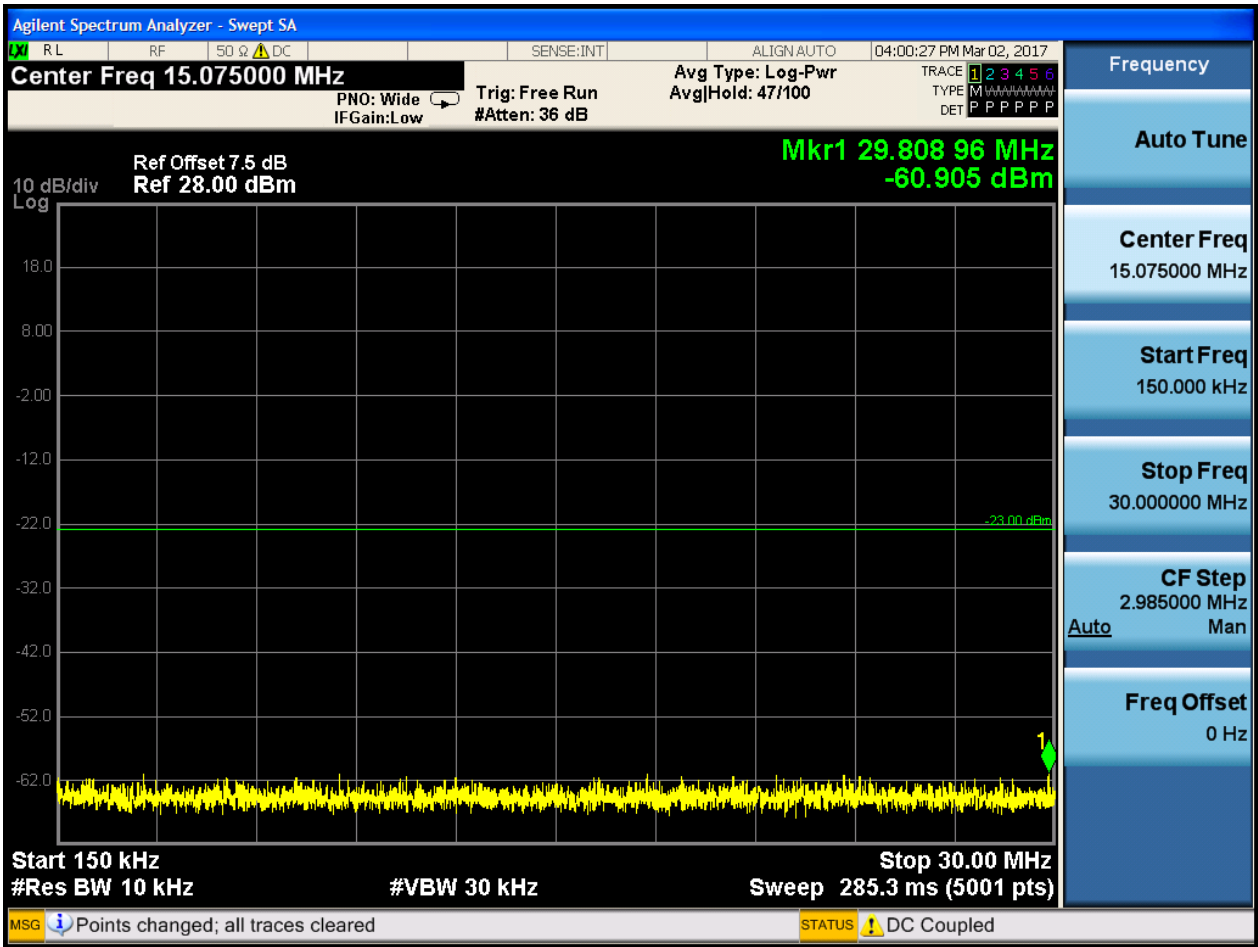


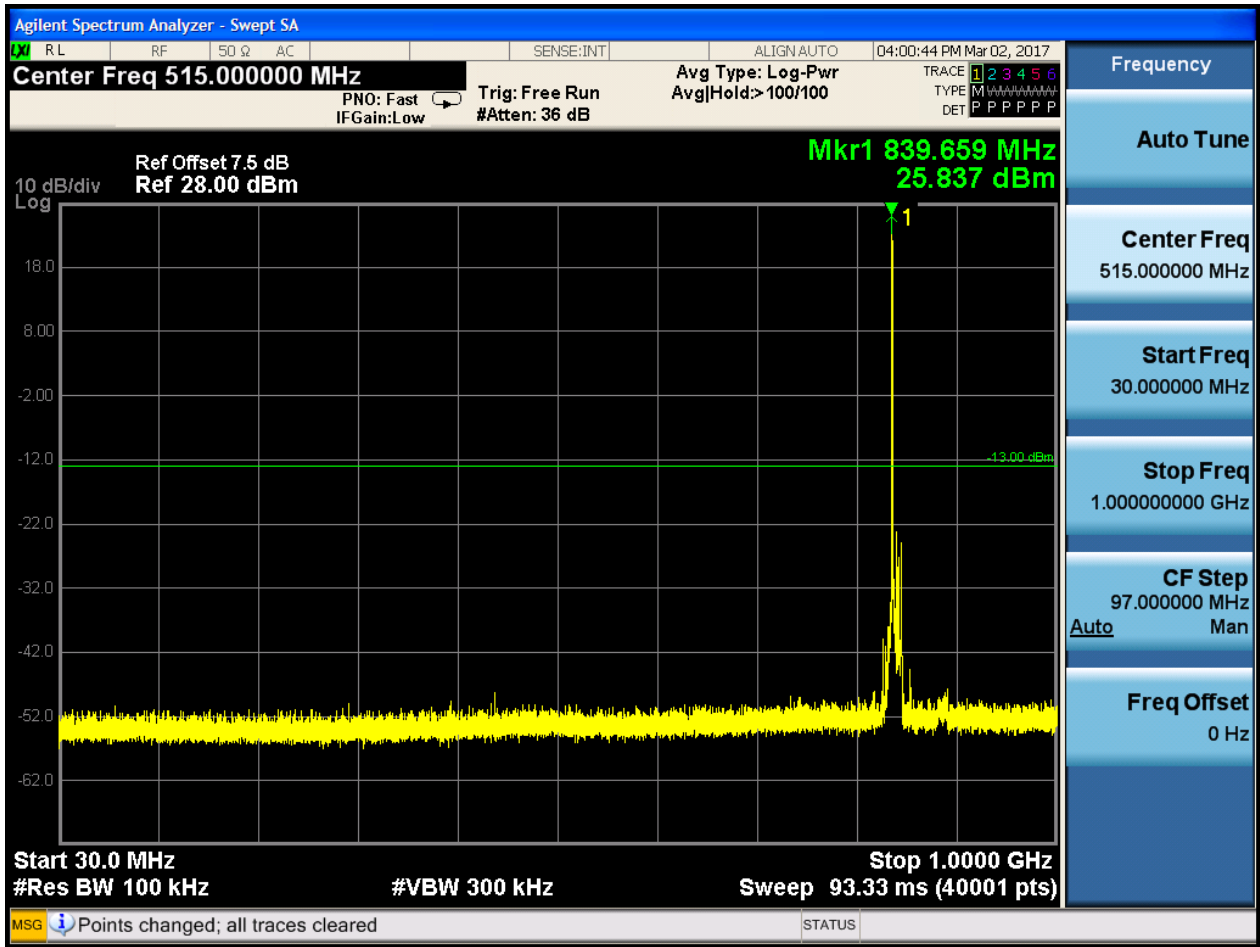


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







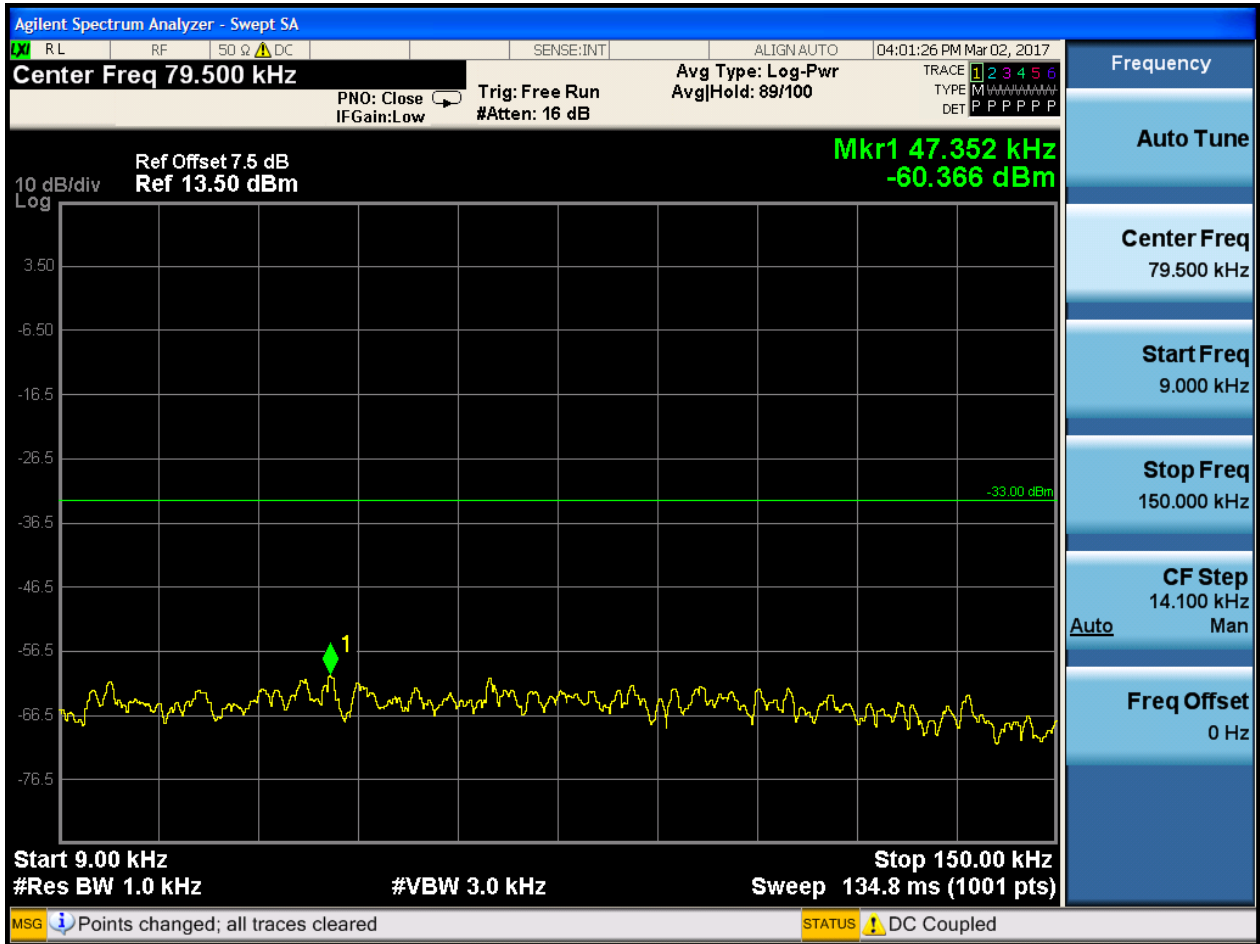


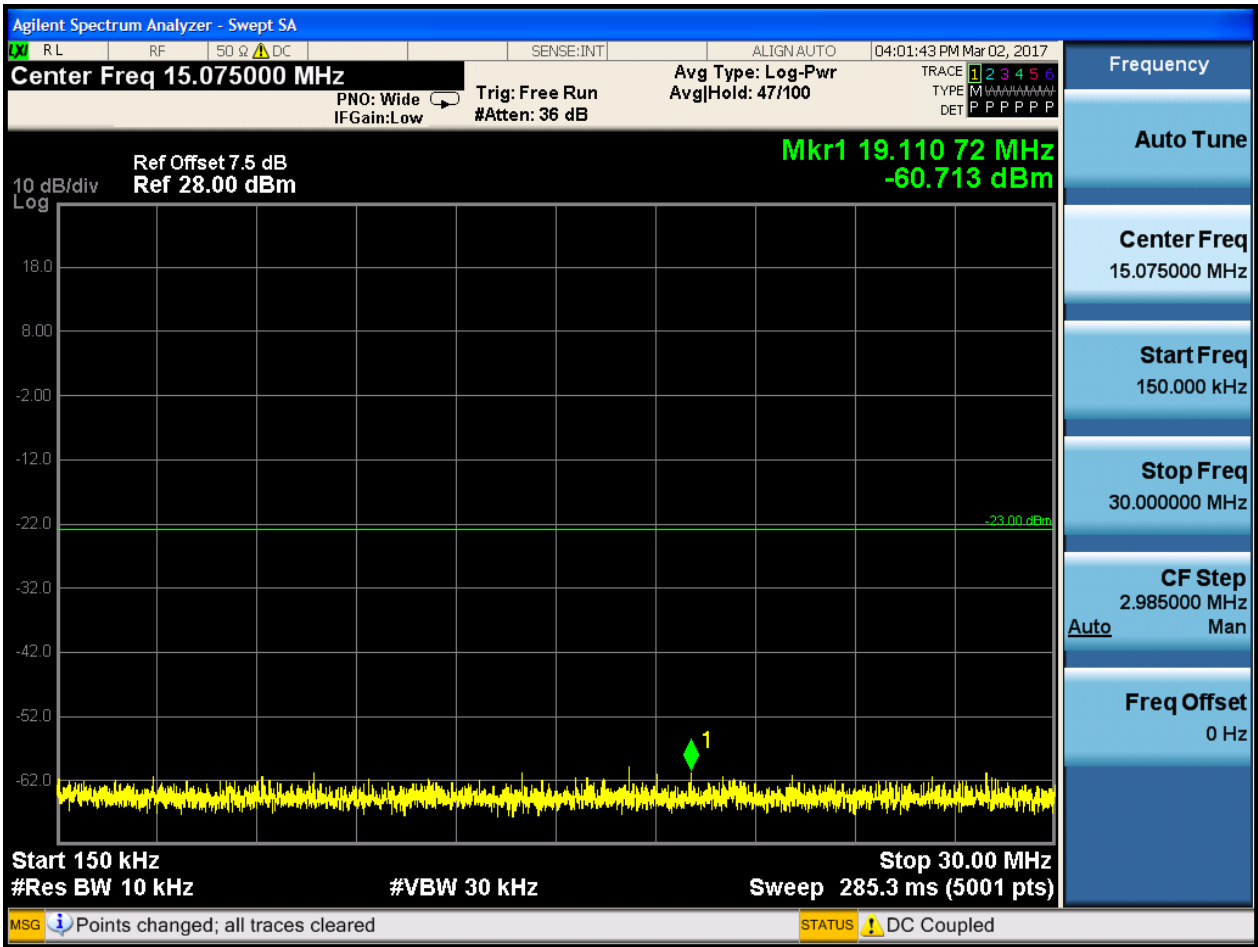
6.1.1.2 Test Mode = LTE/TM2

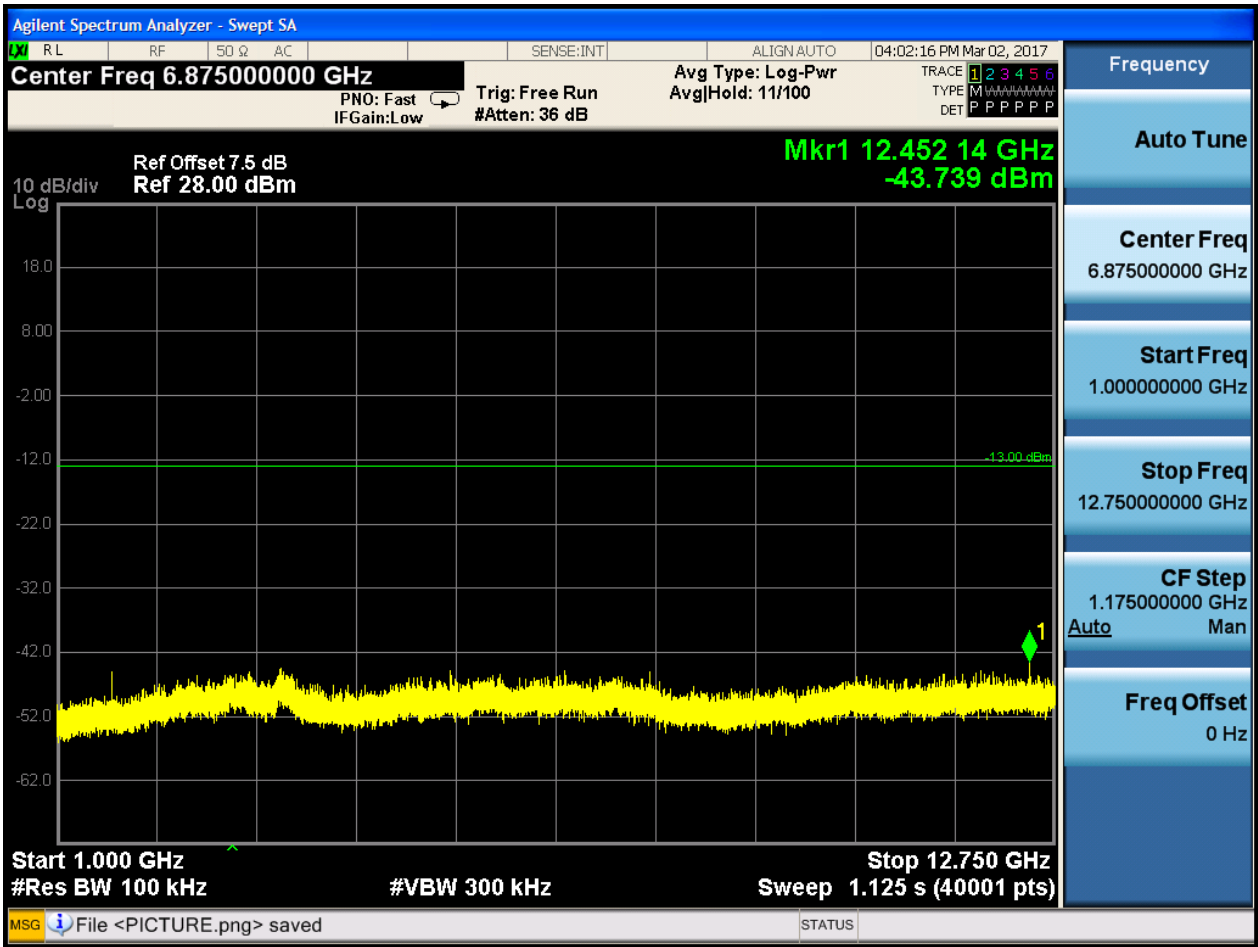
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



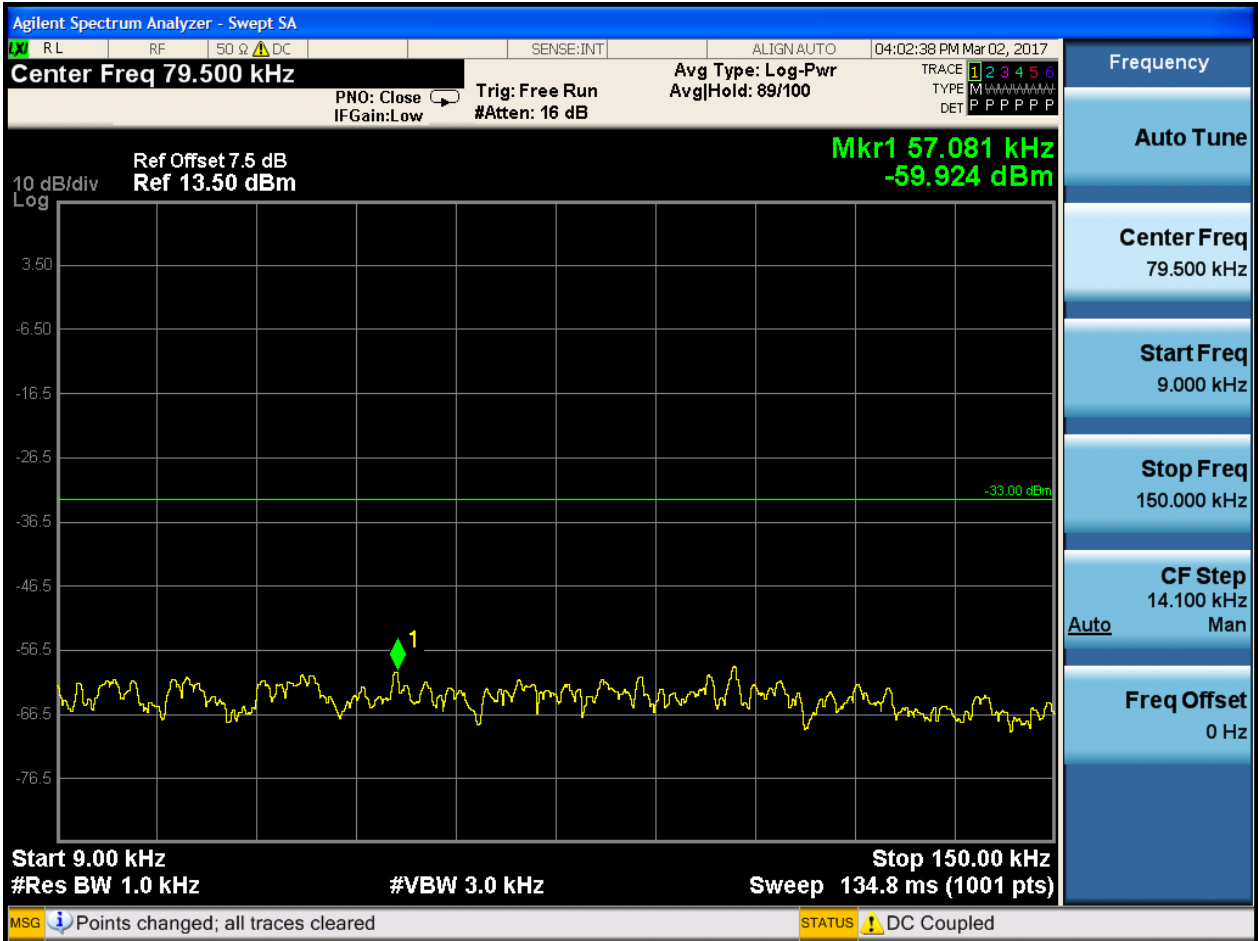


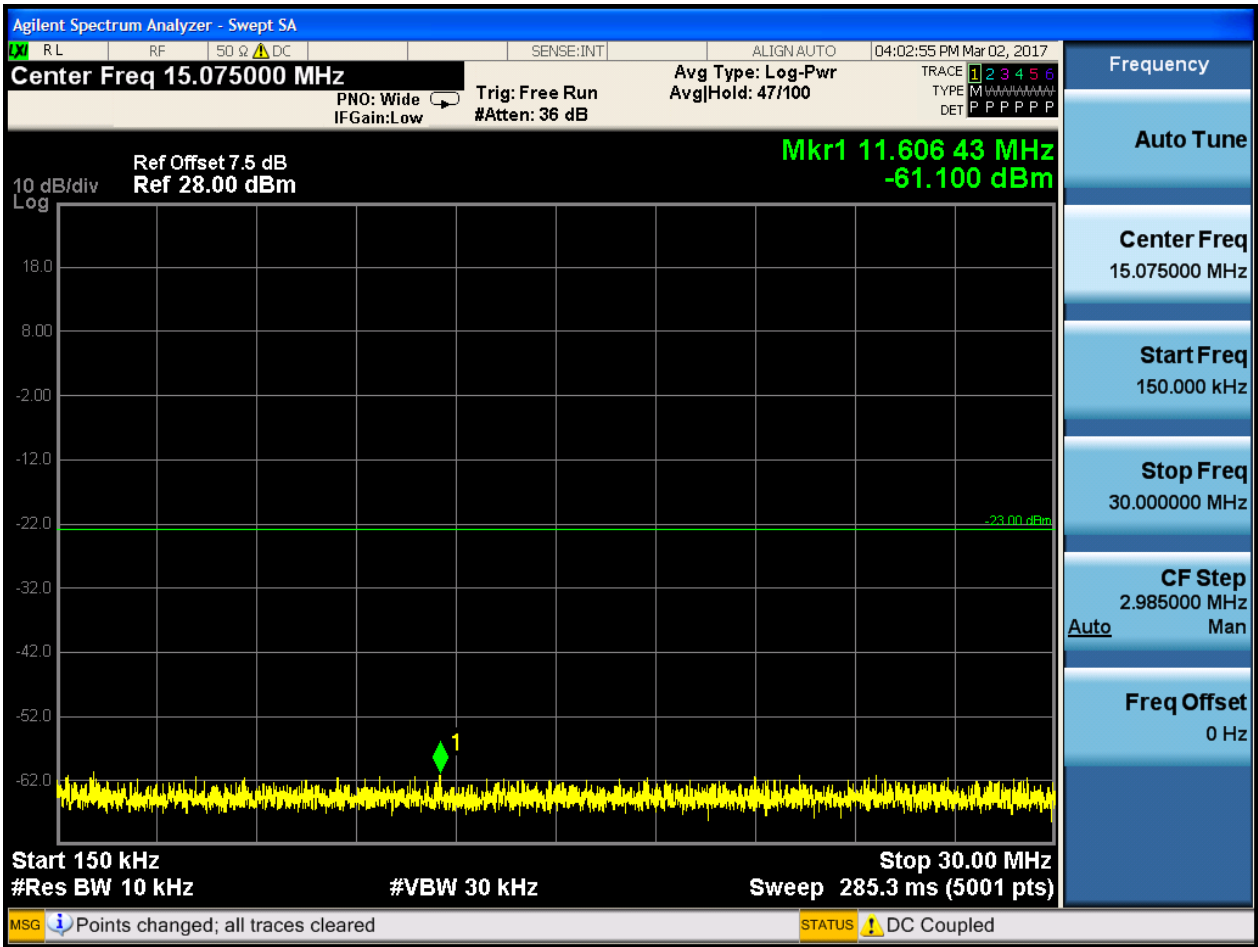


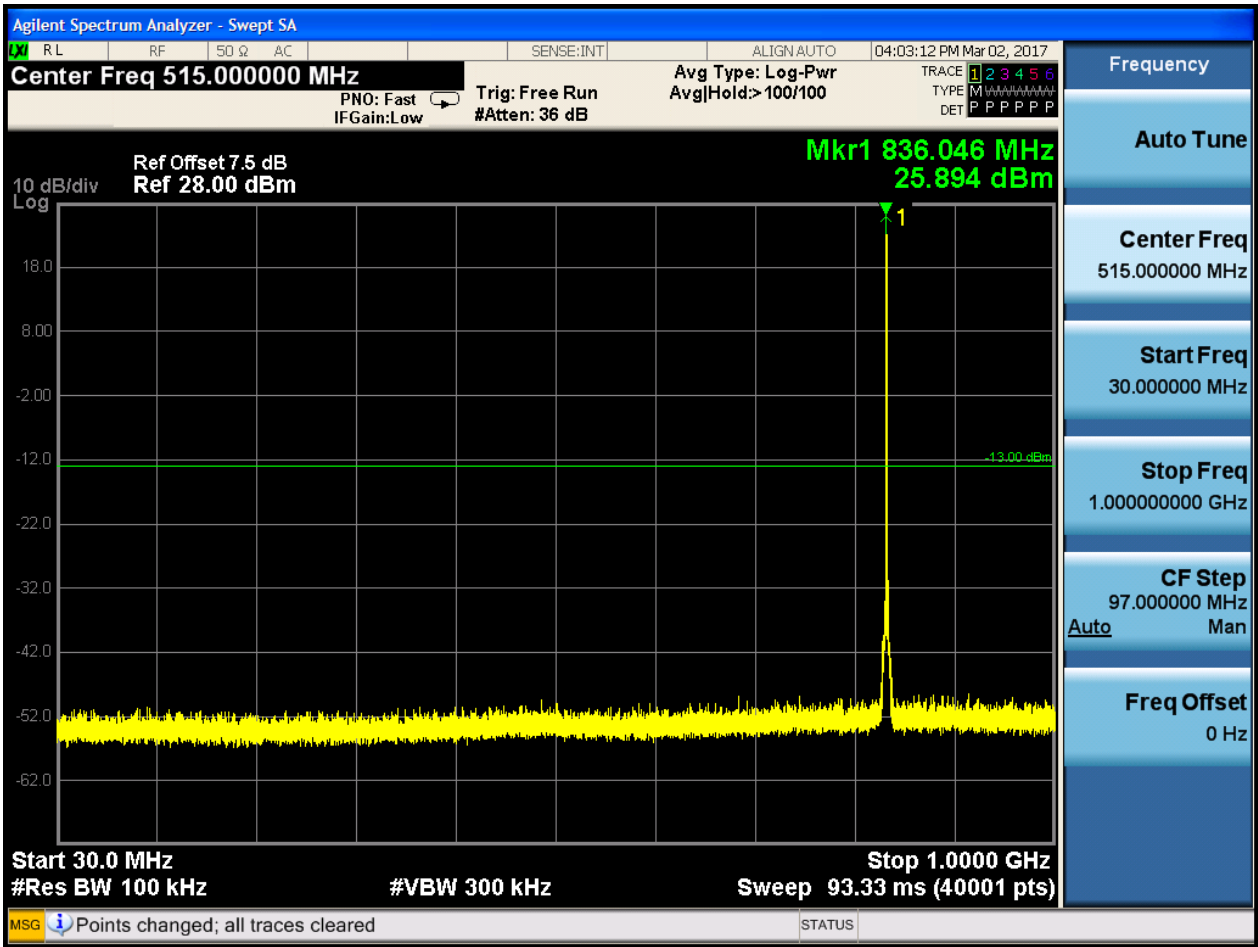


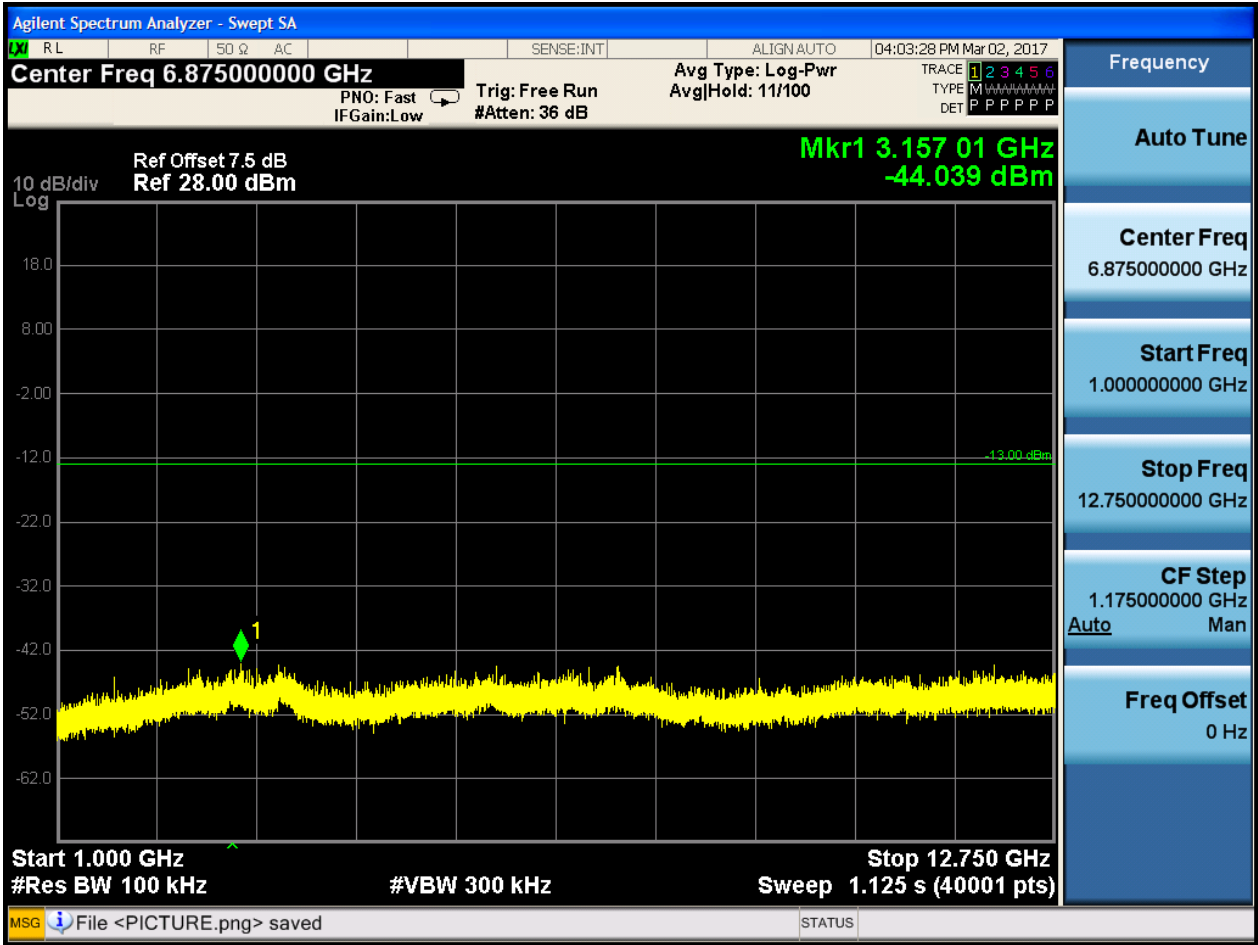
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





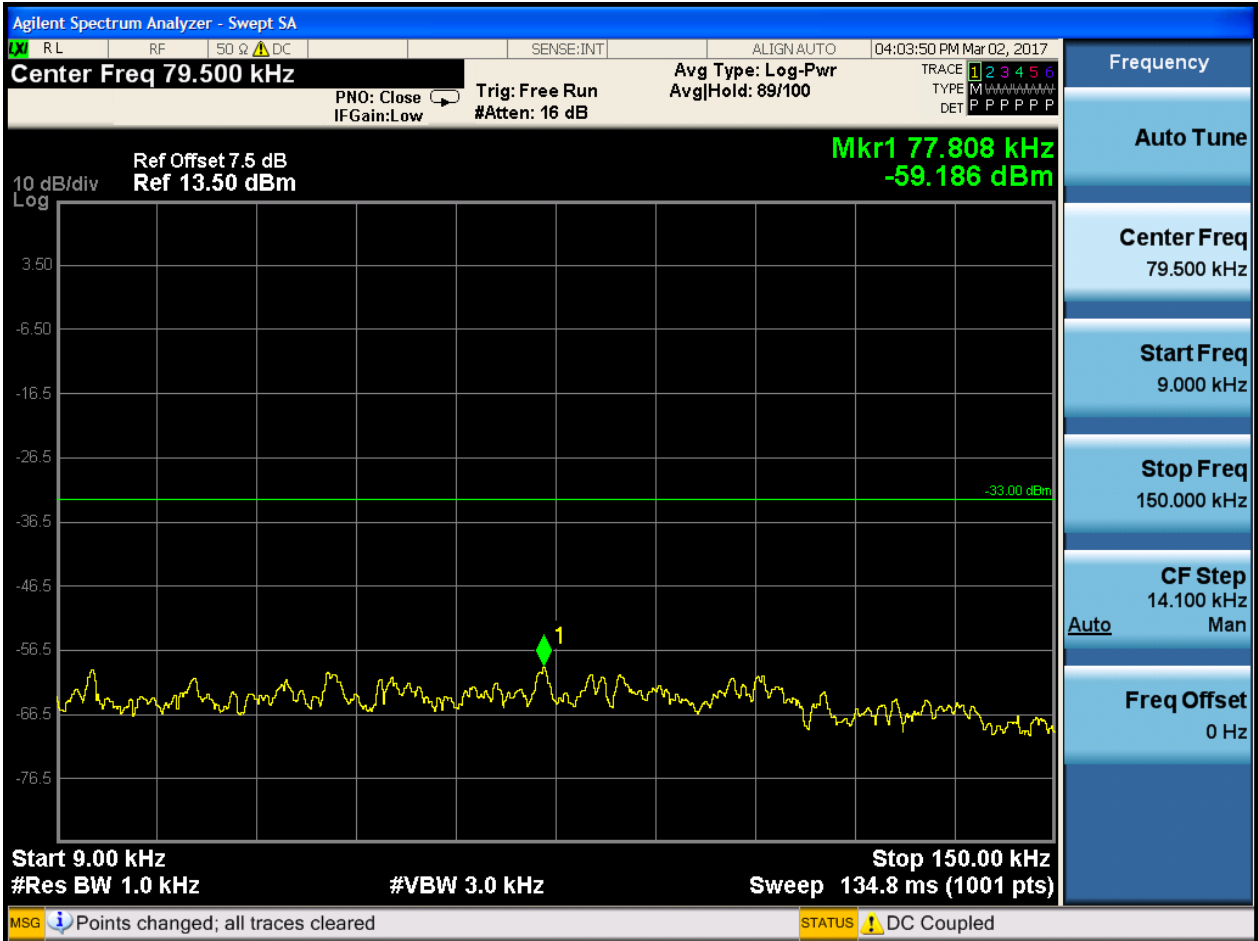


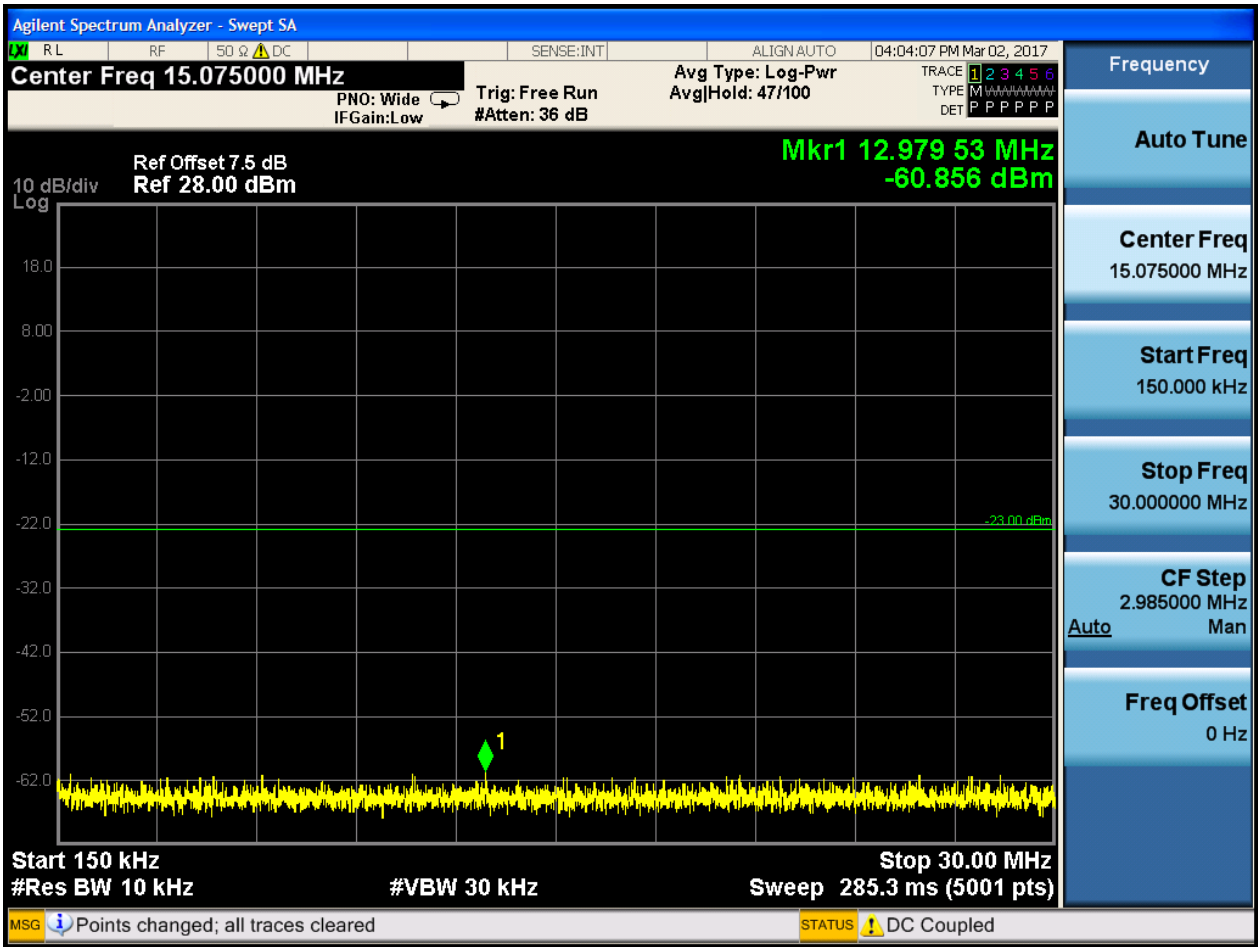


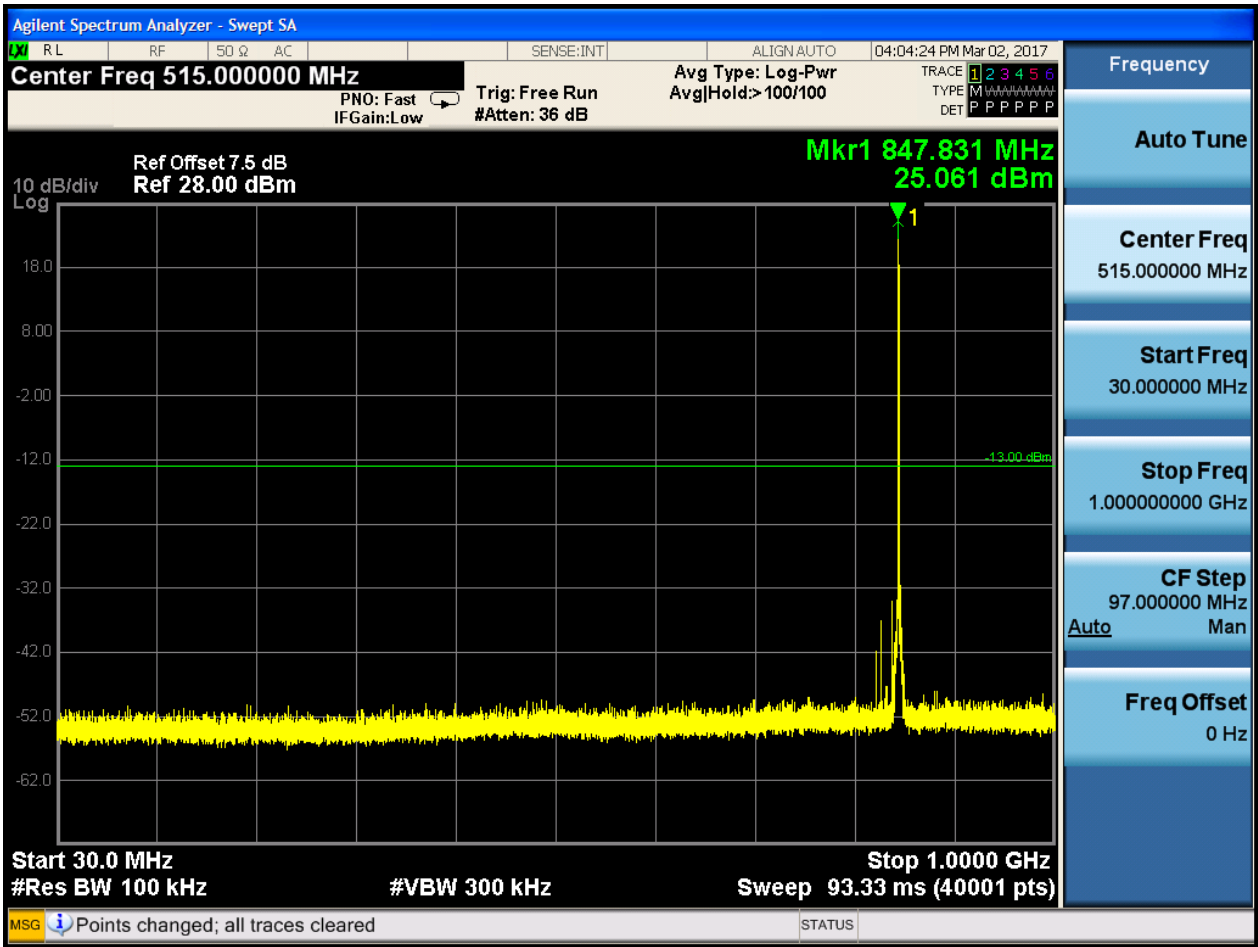


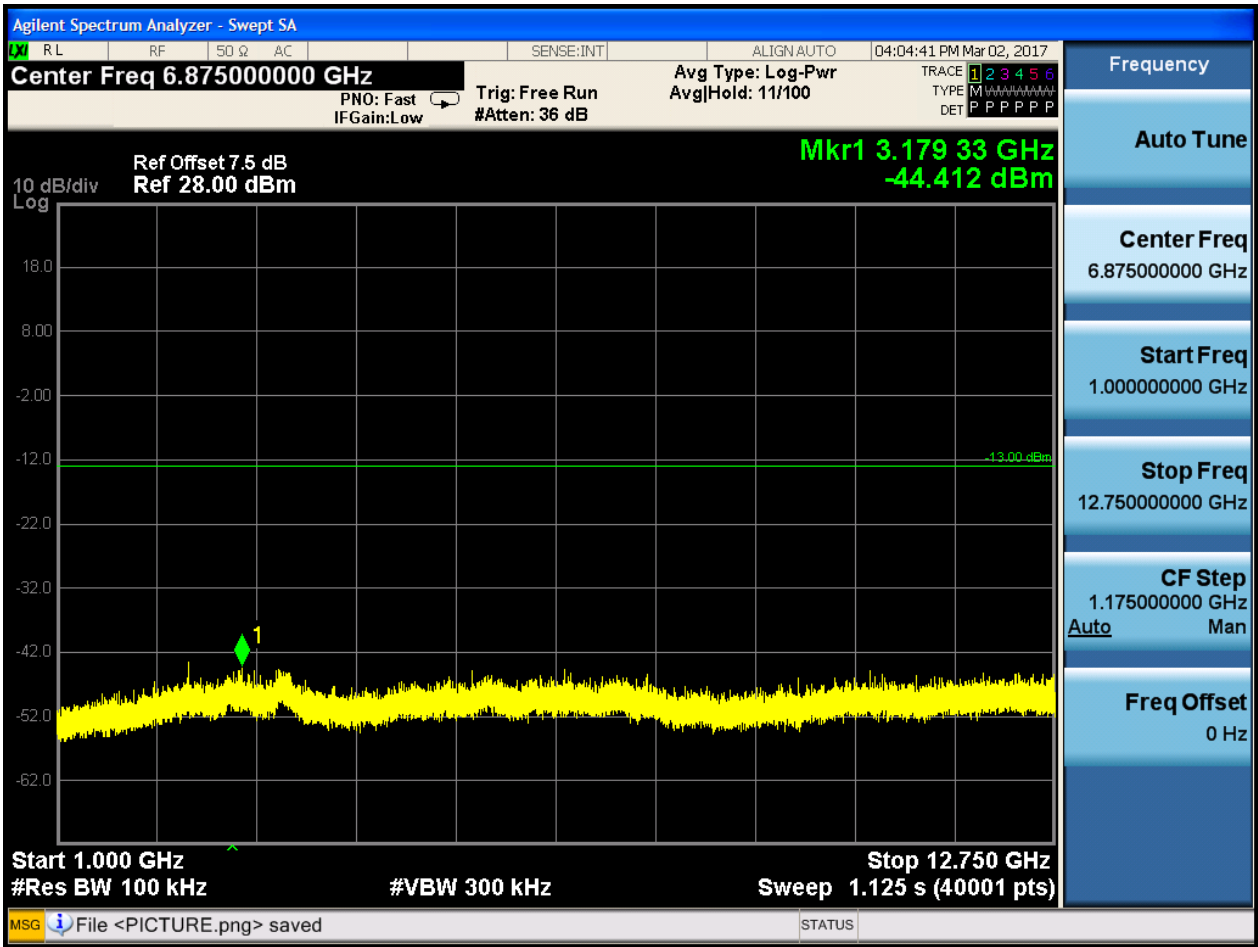
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







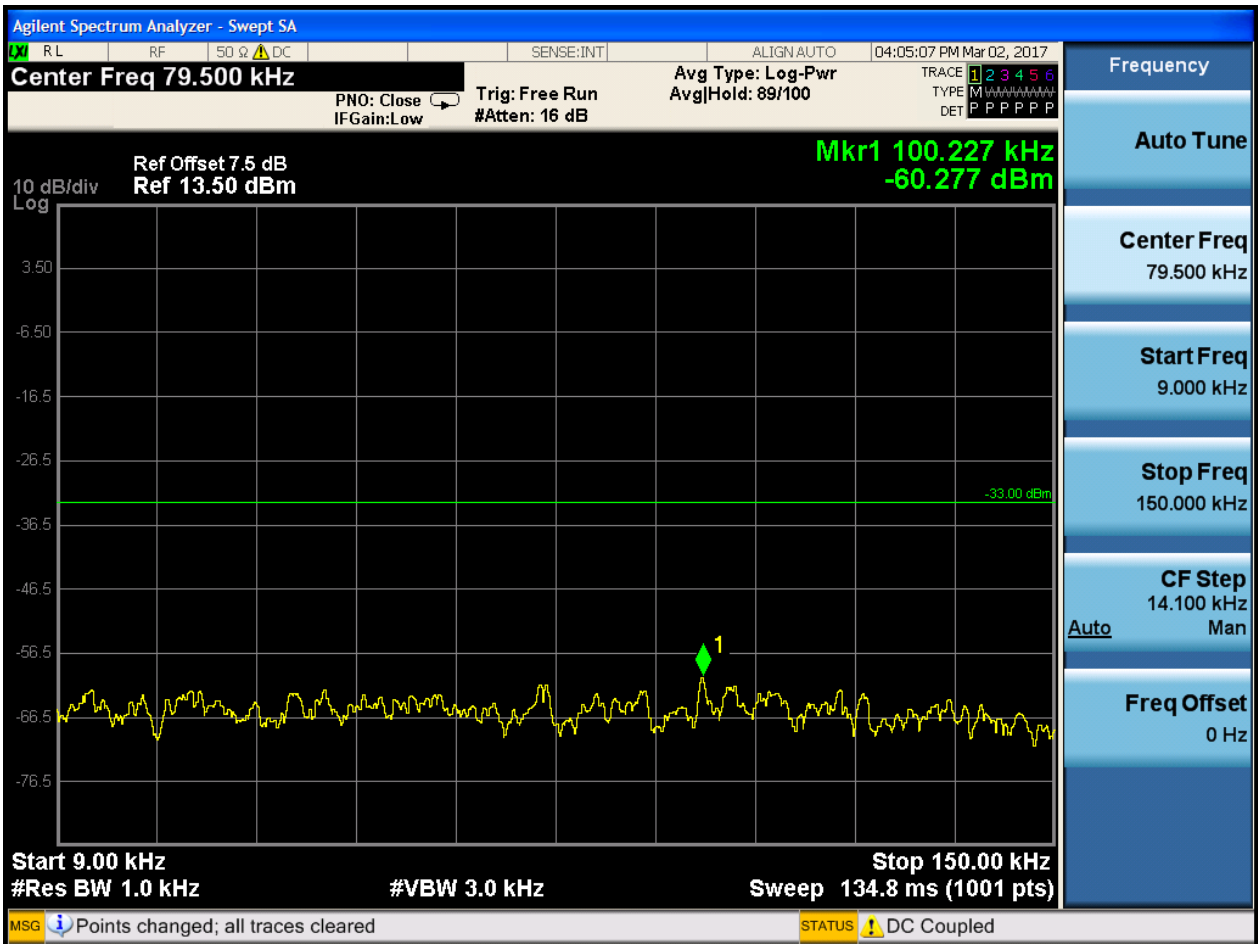


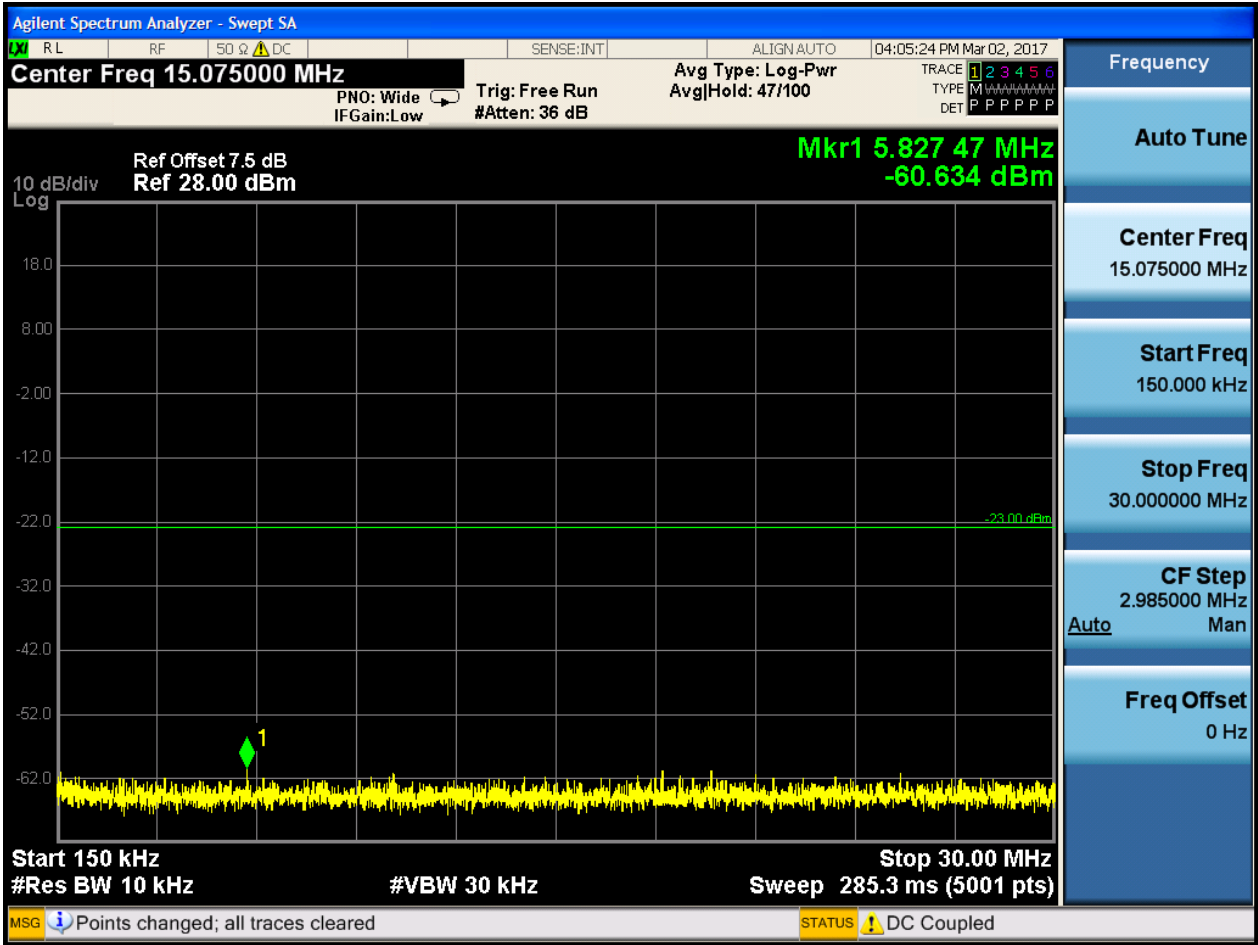


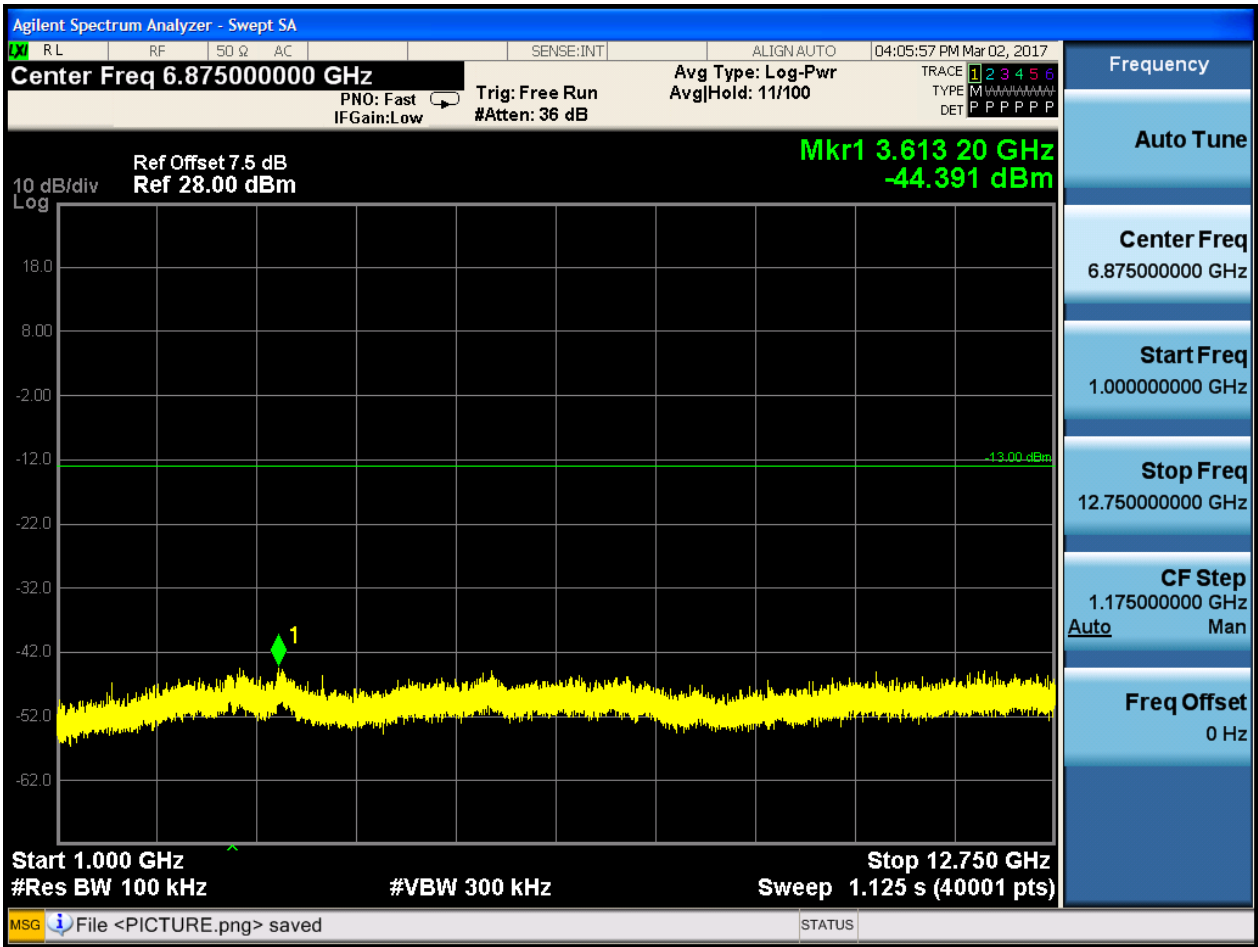
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



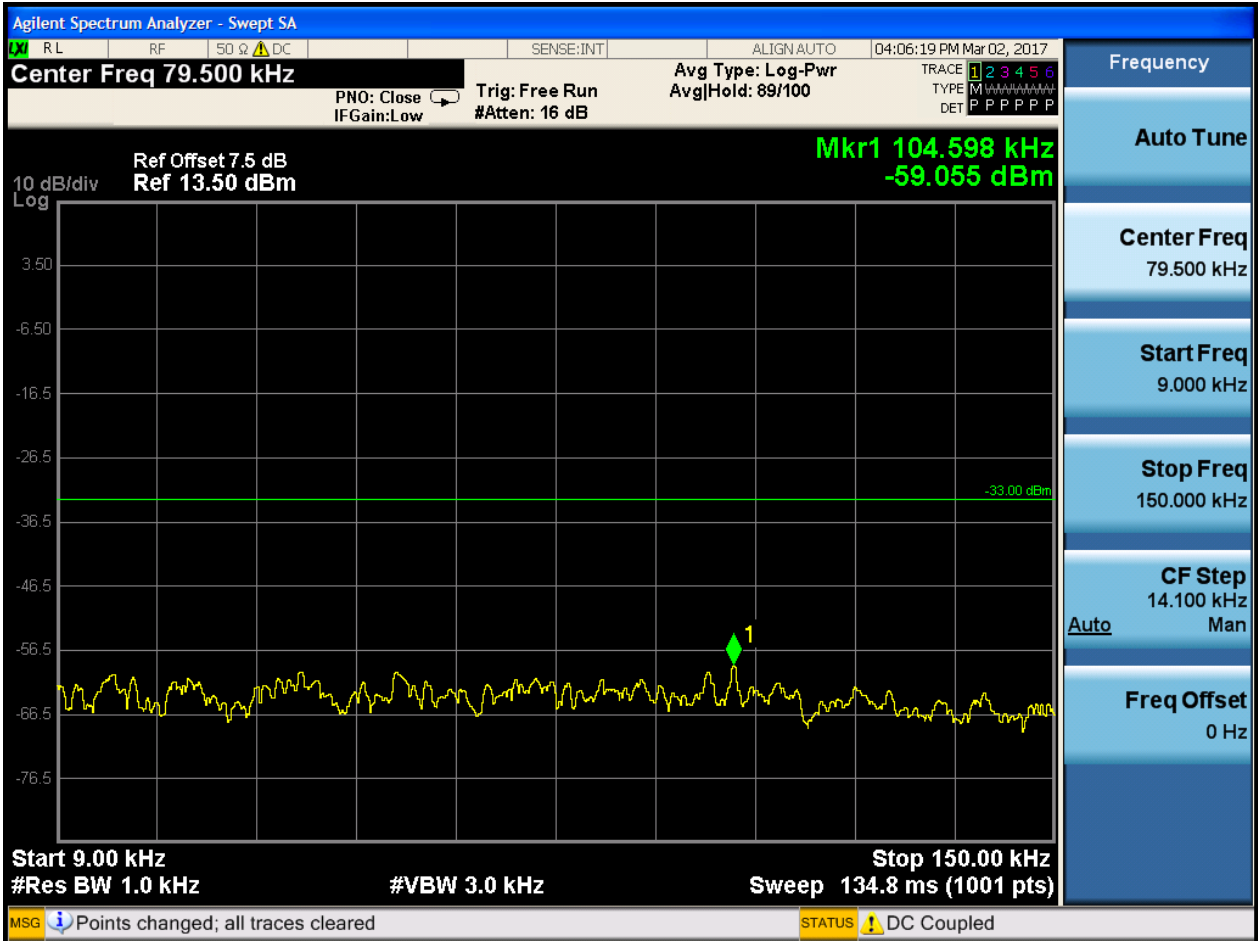


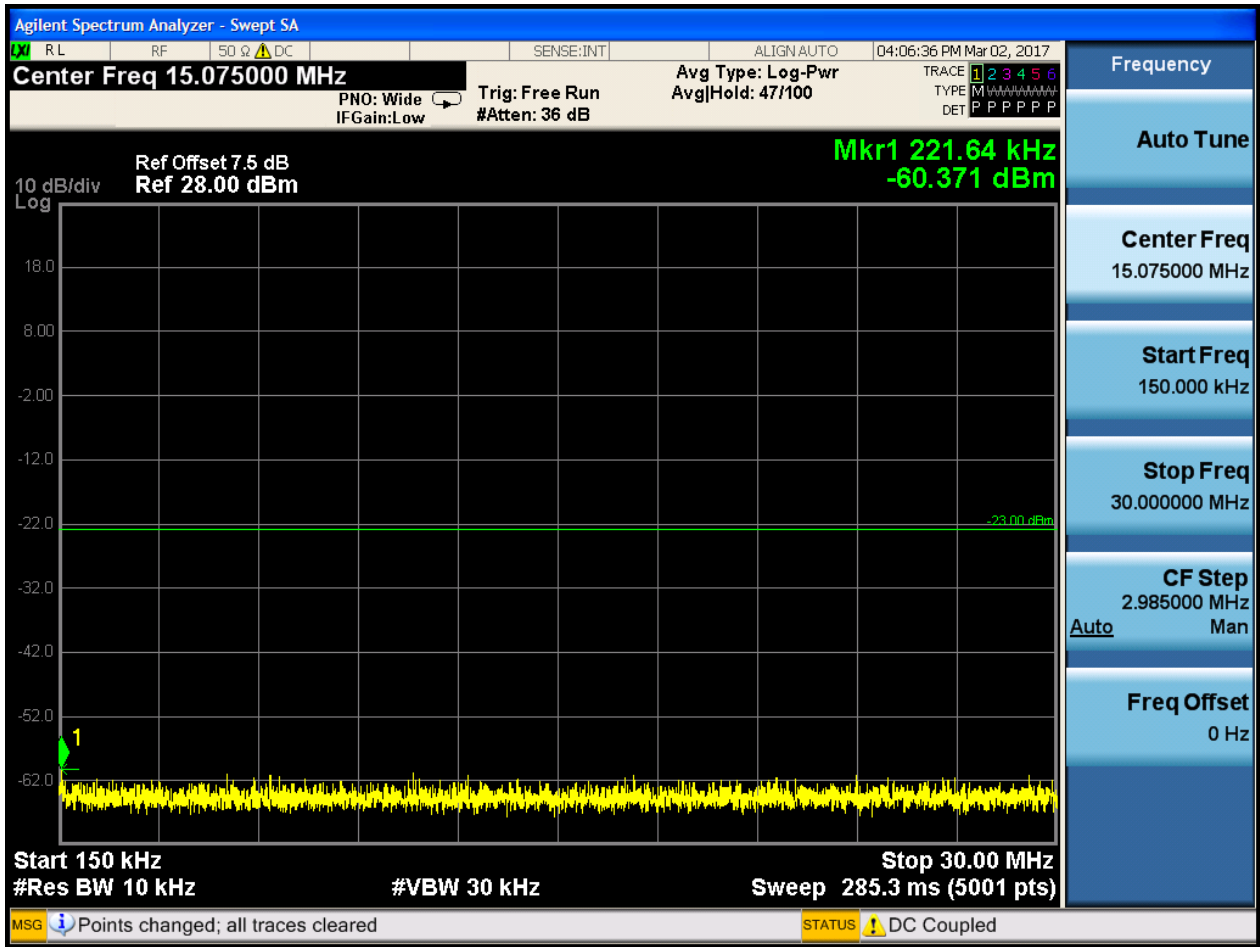


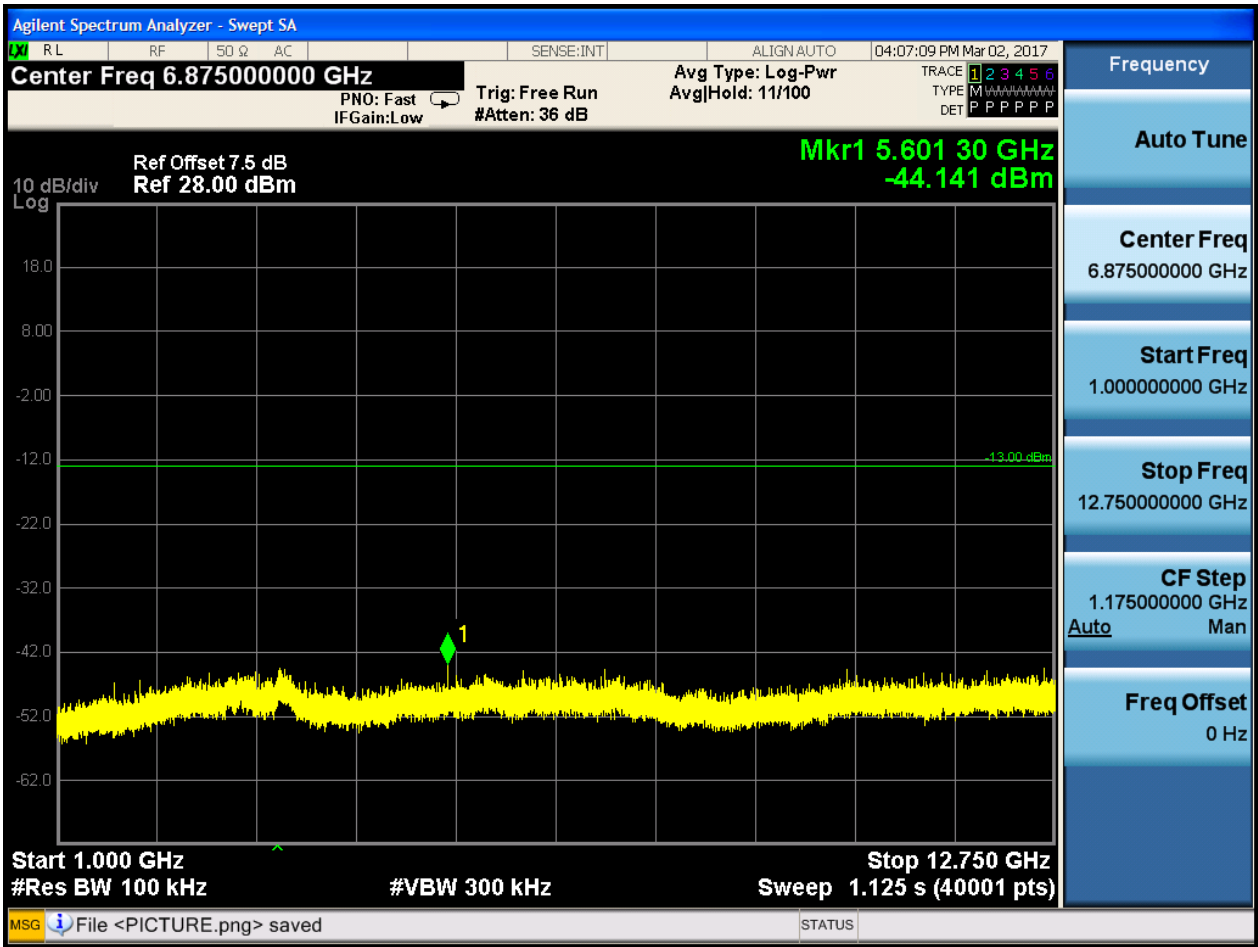


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



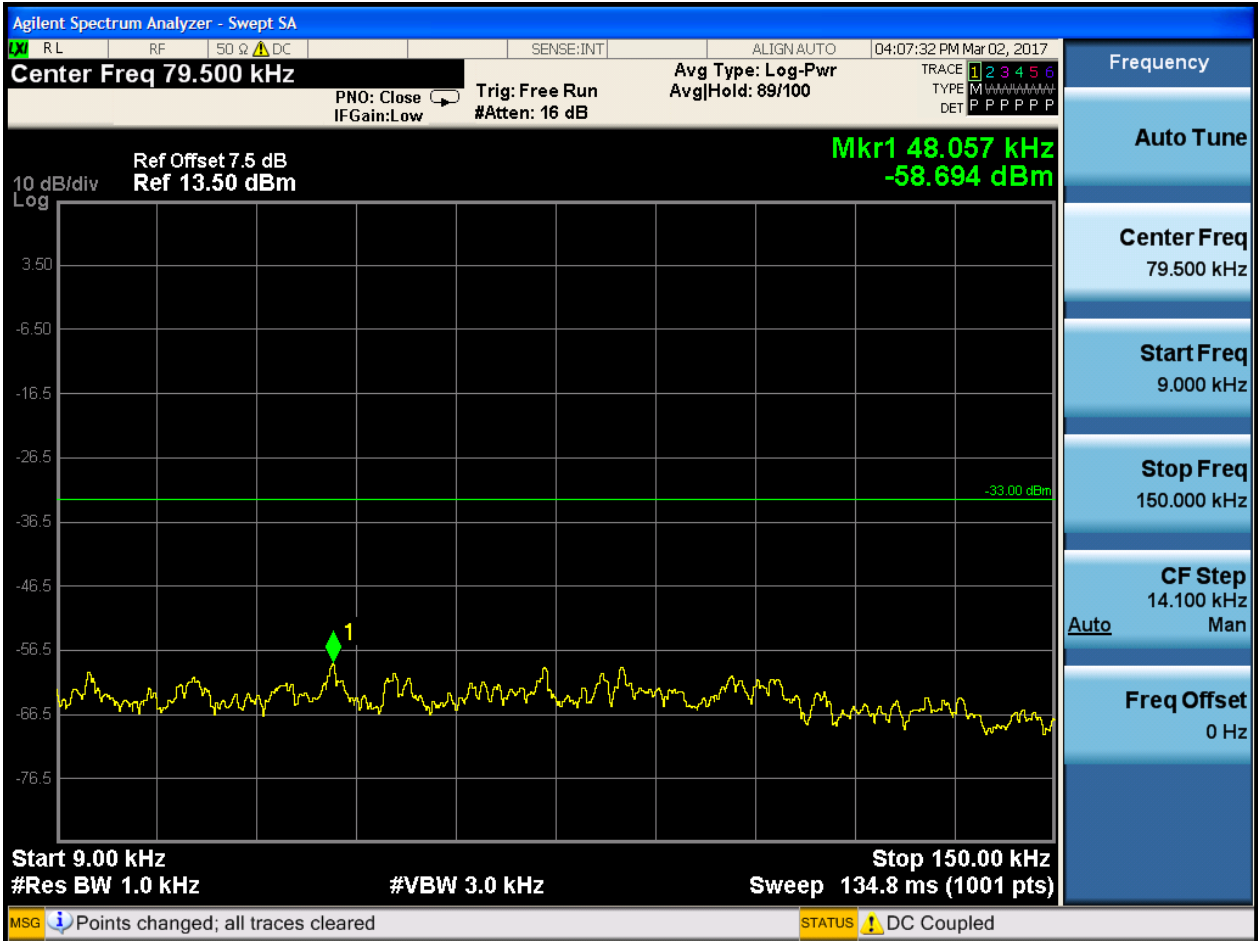


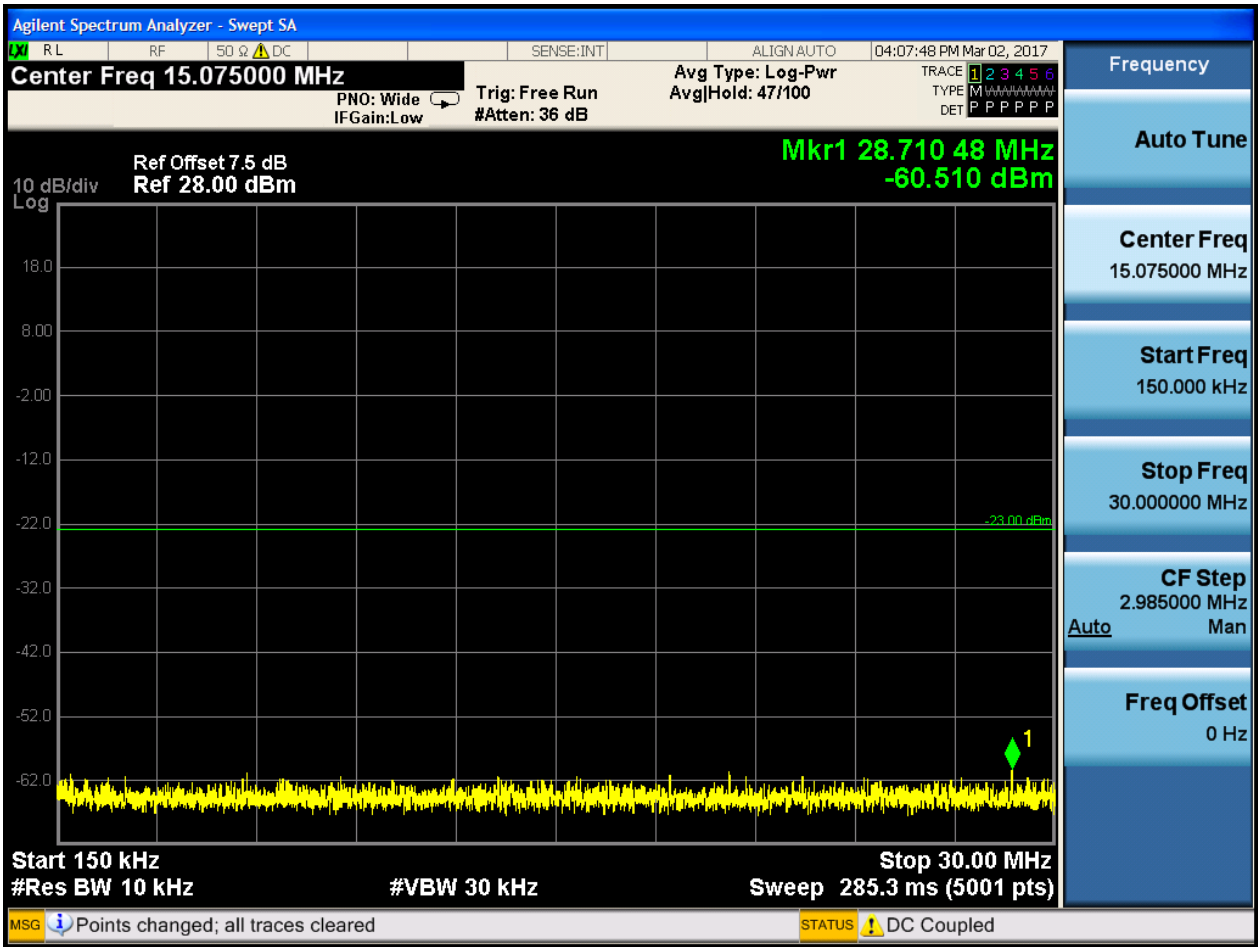


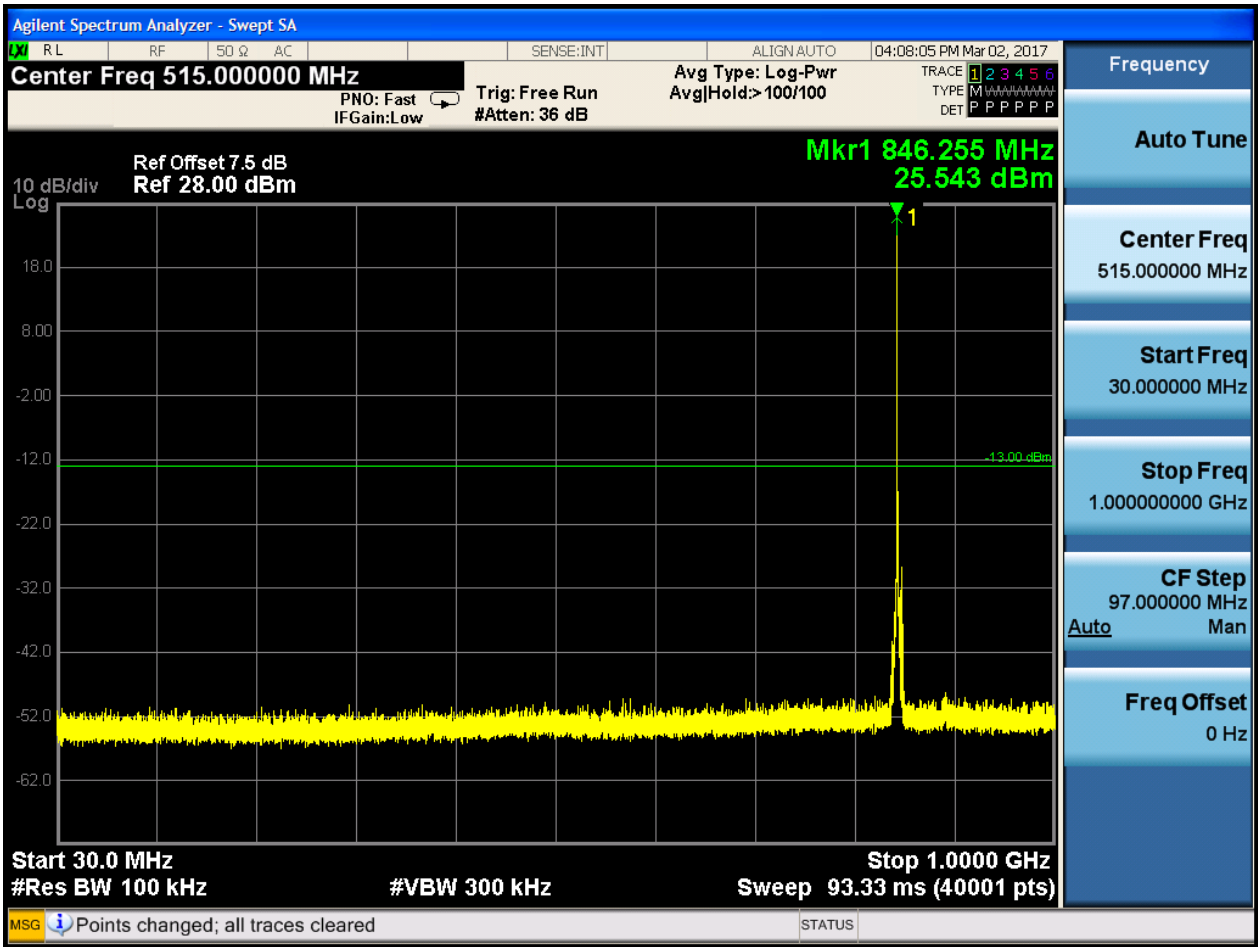


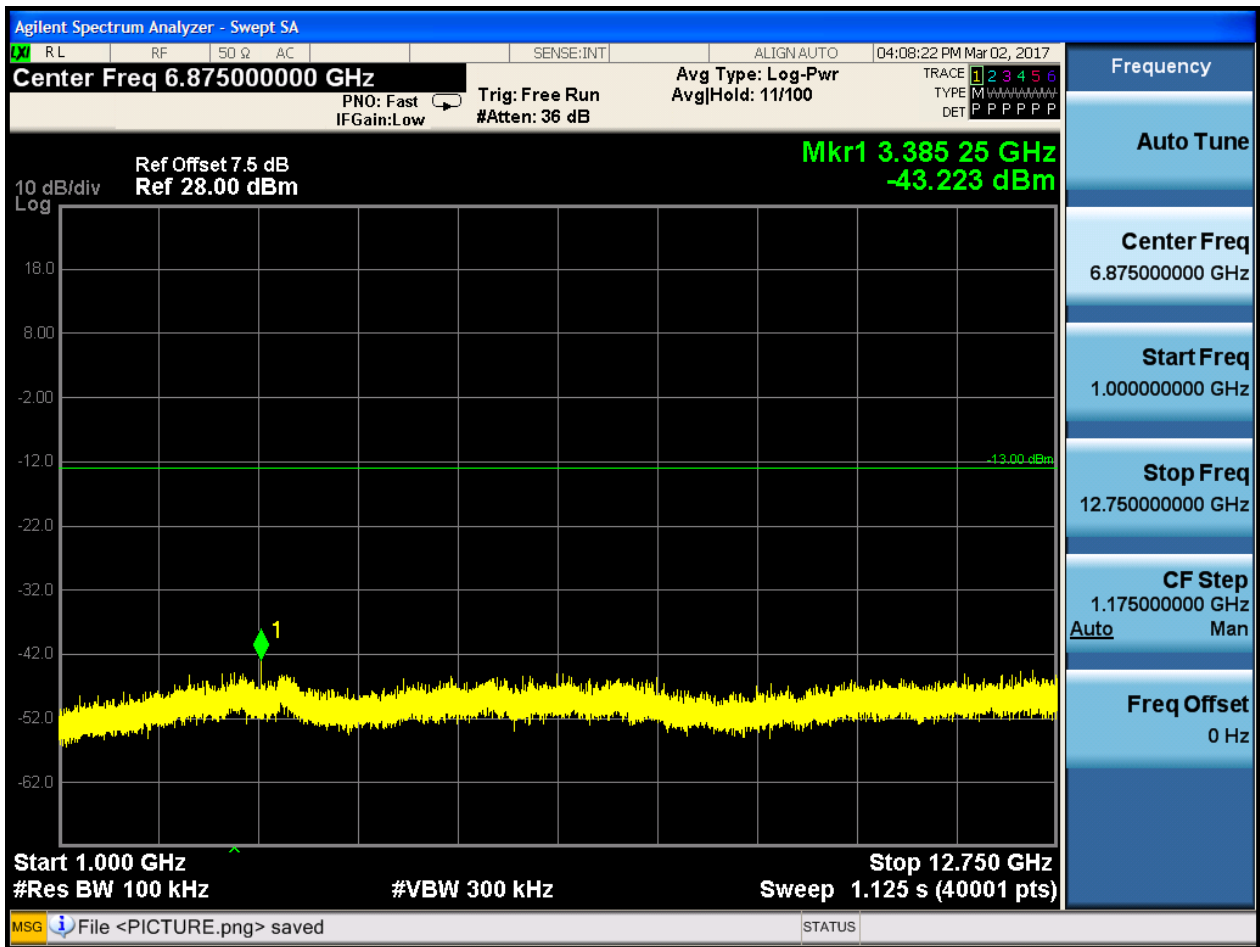
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







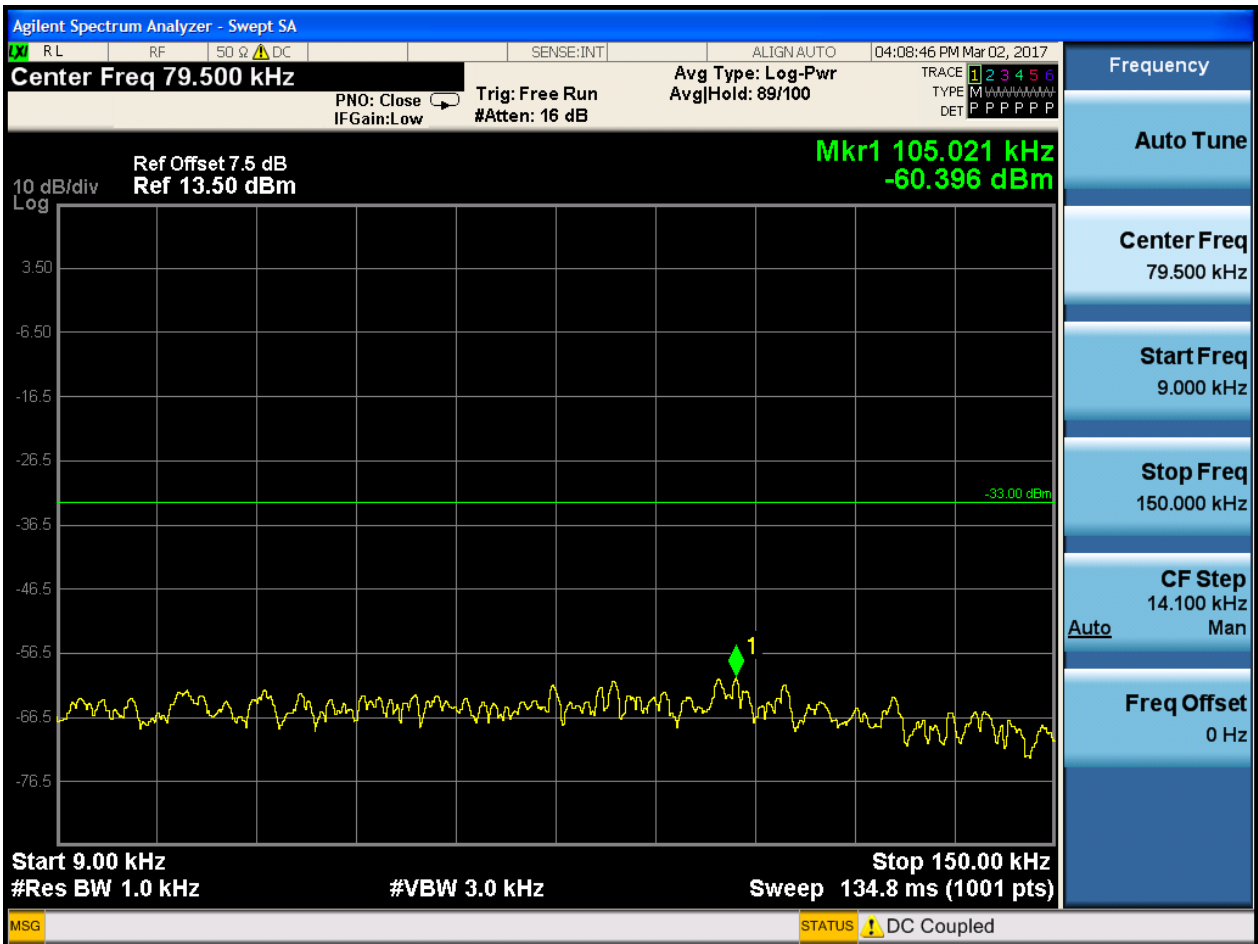


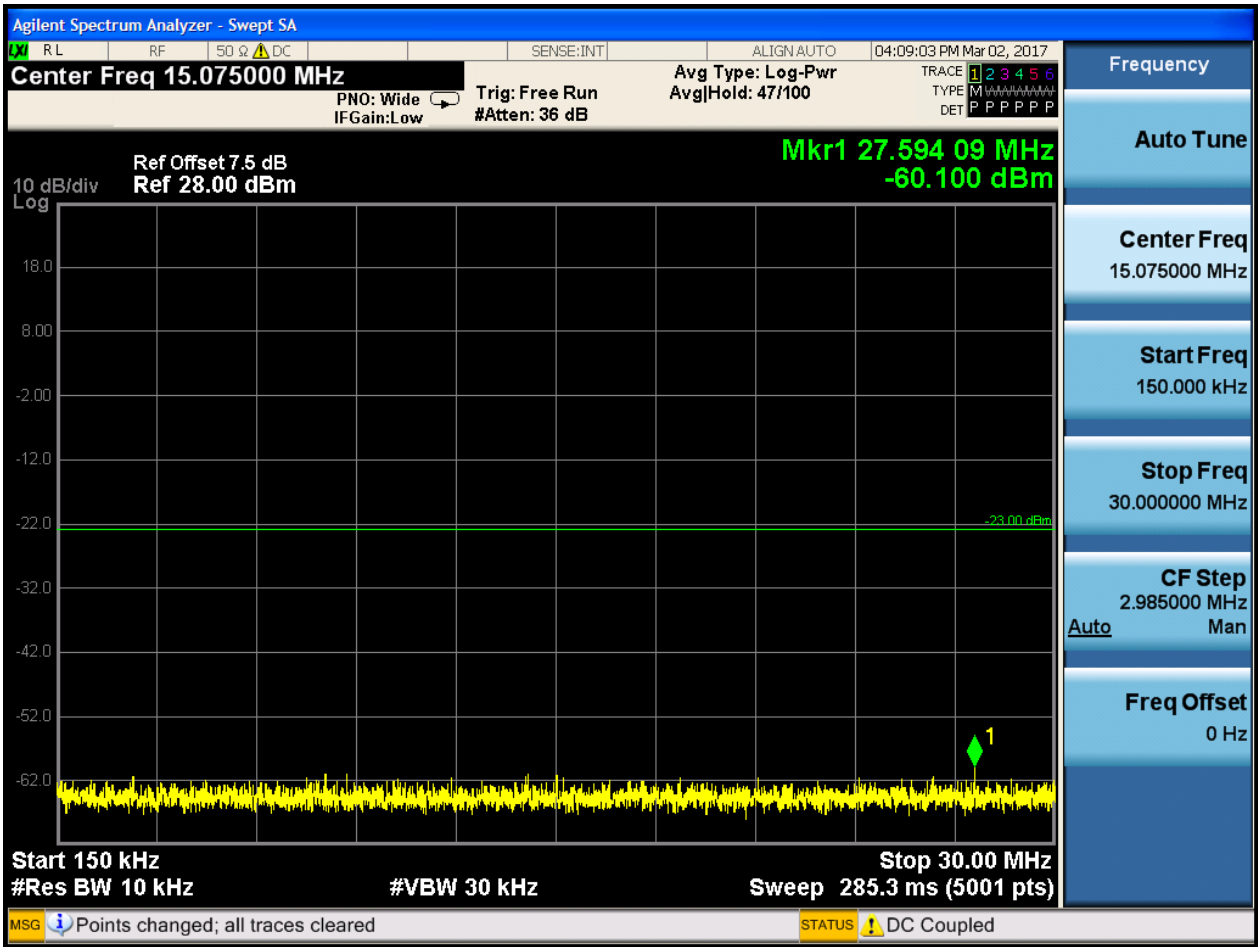


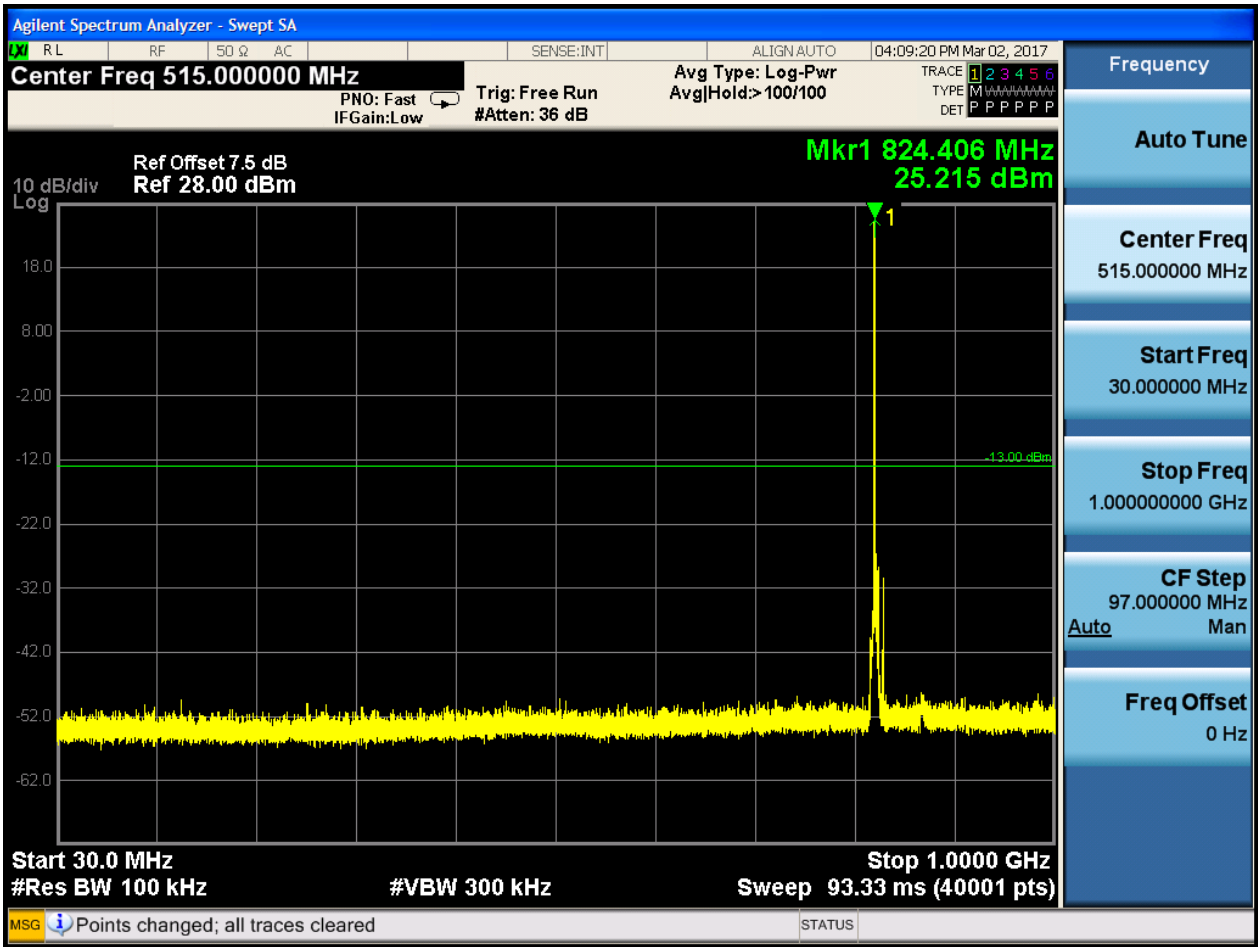
6.1.1.2.3 Test Bandwidth = 5

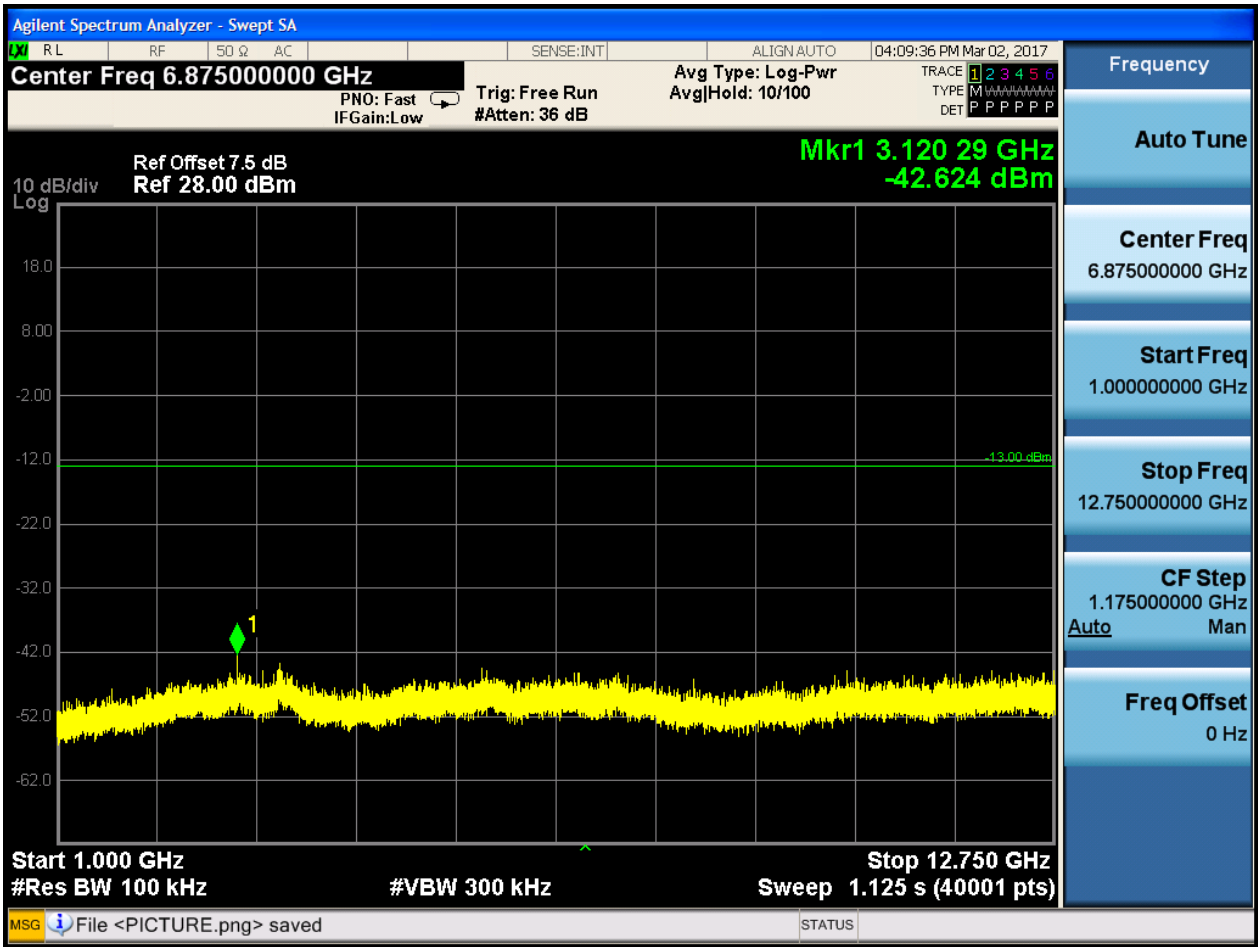
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





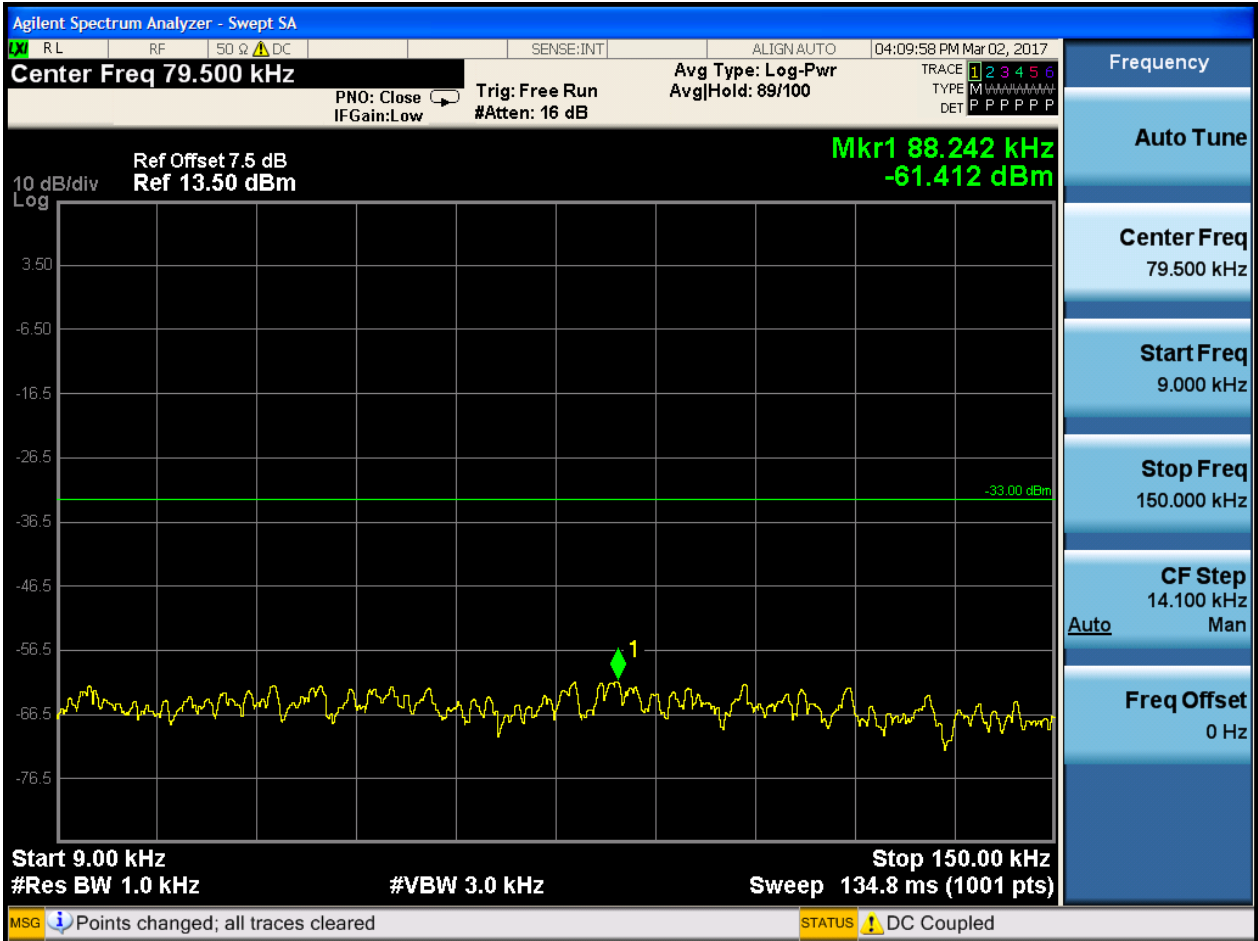


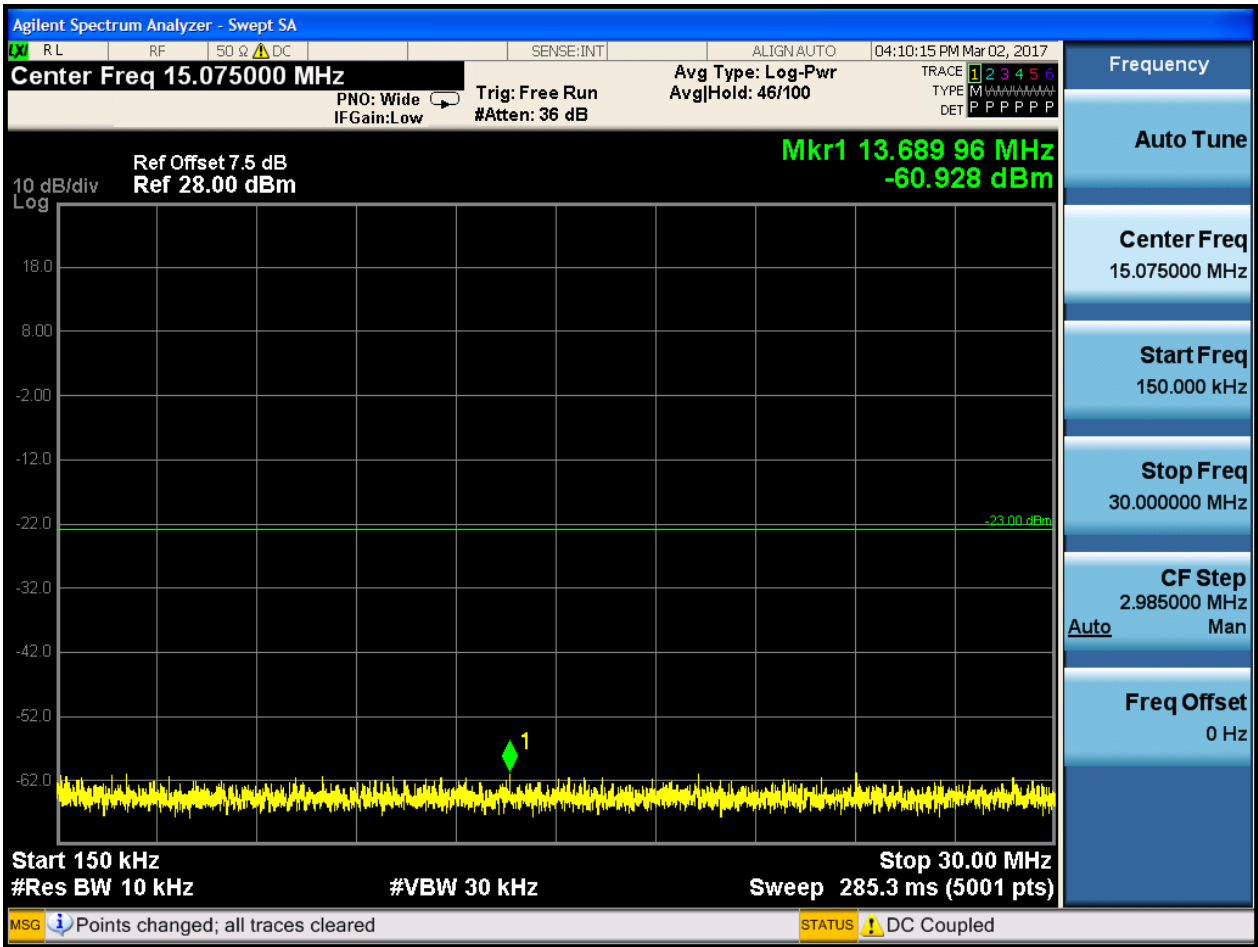


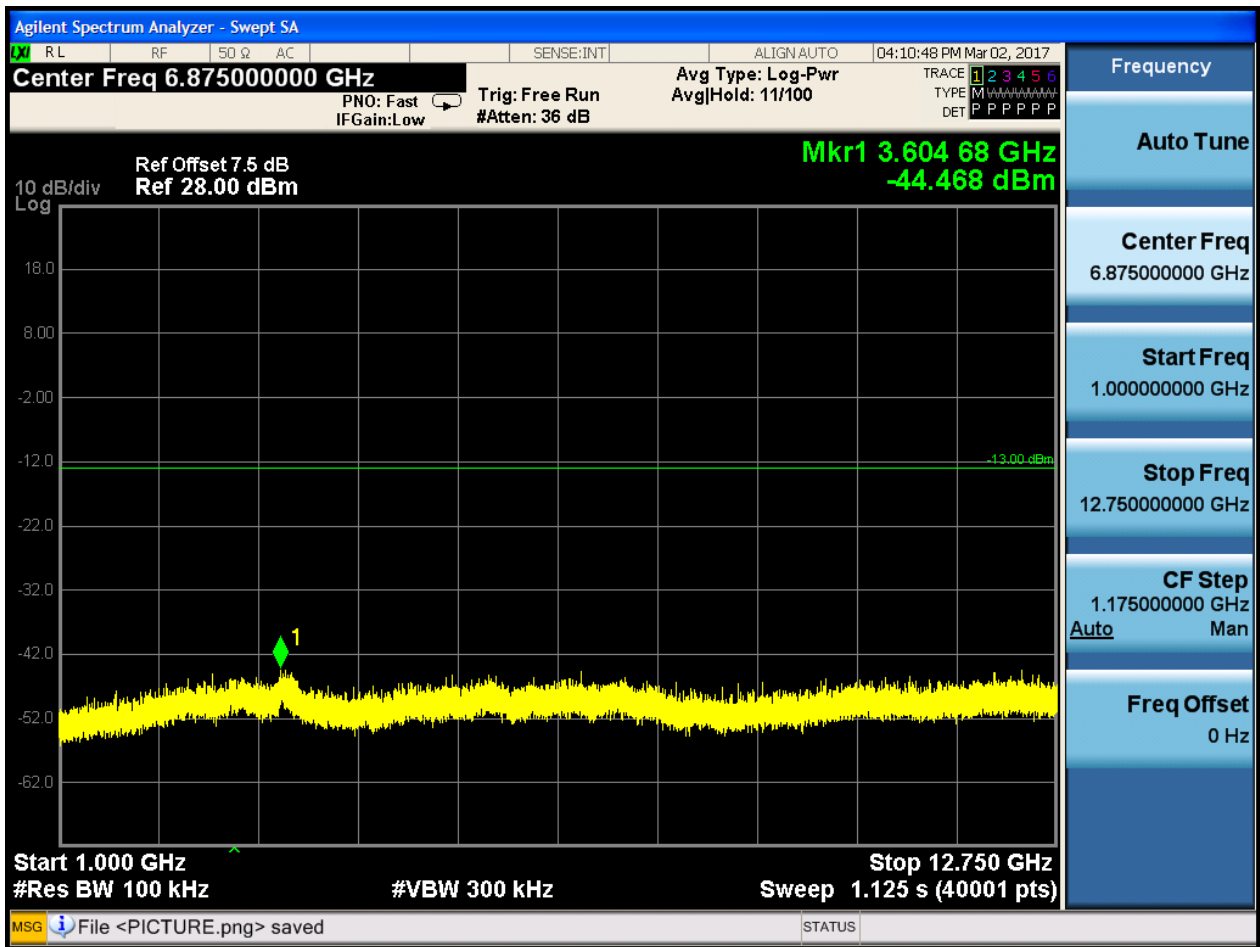


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



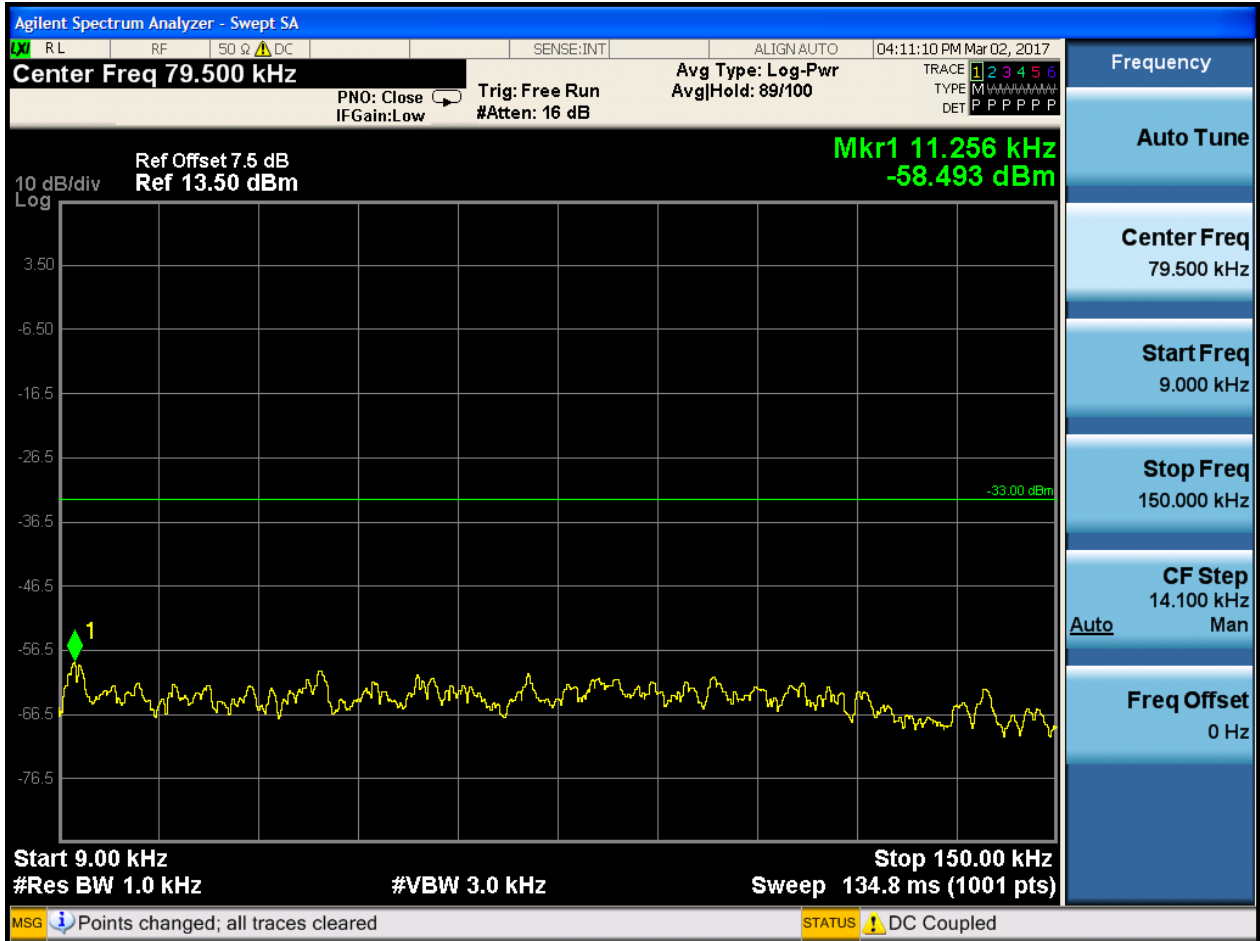


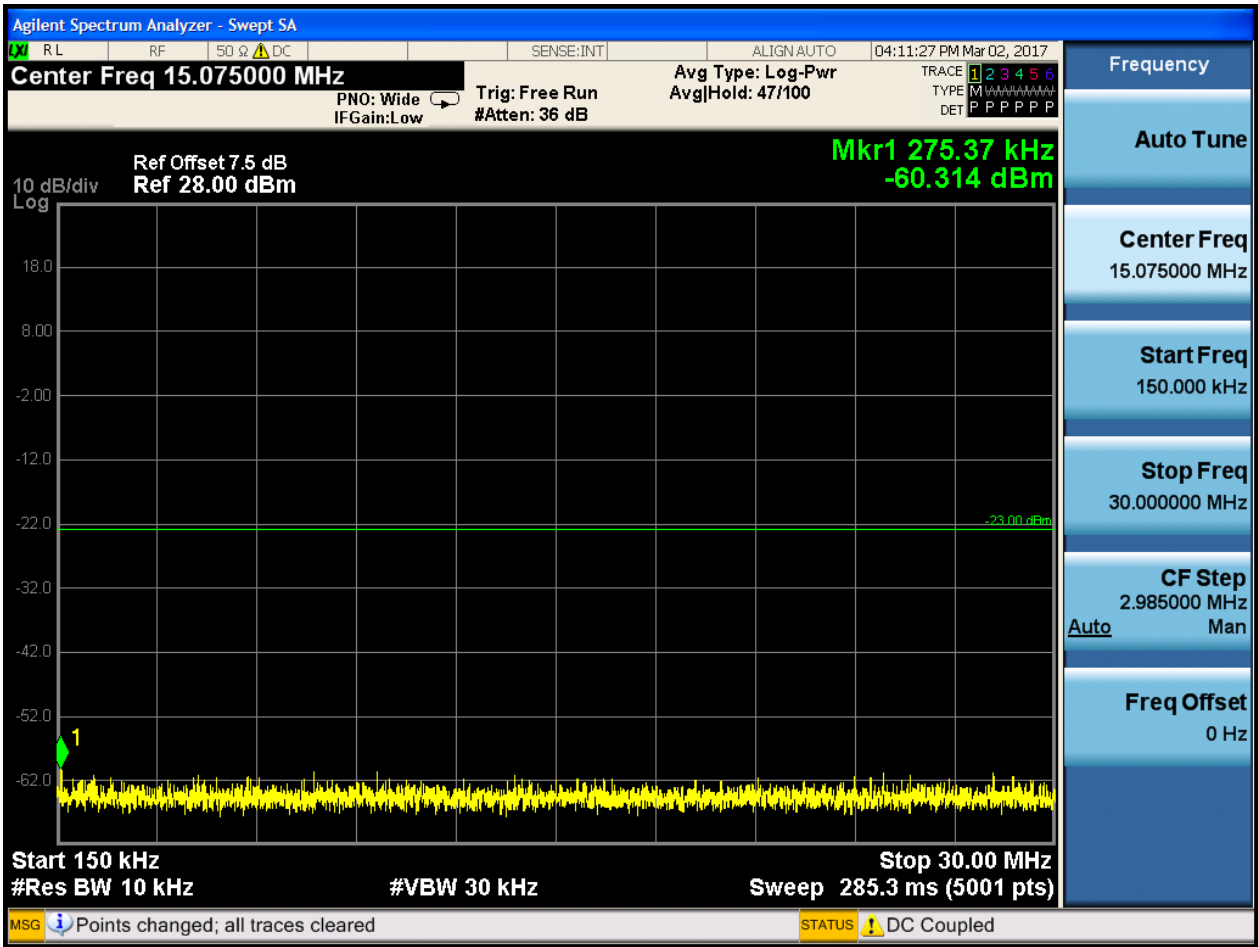


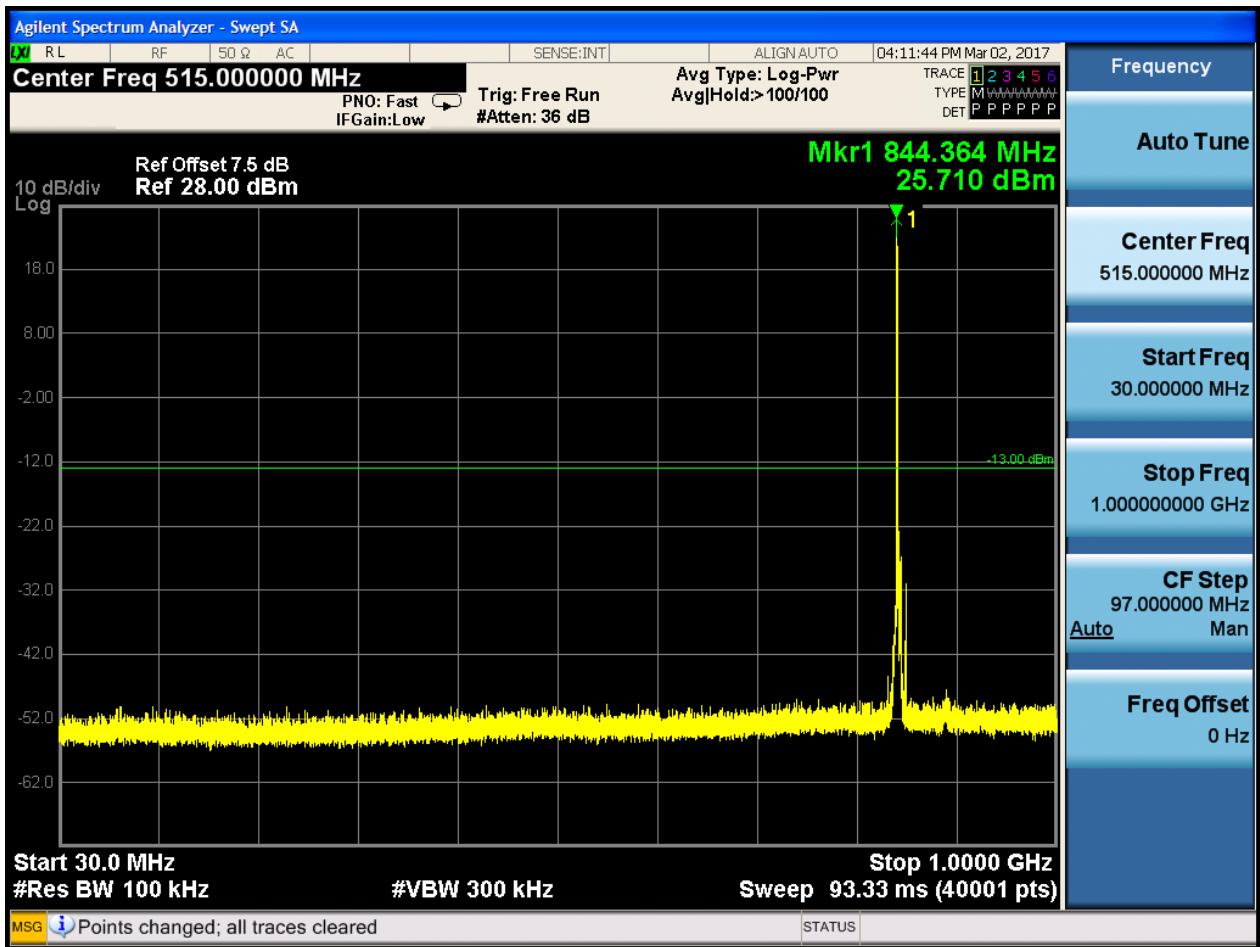


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





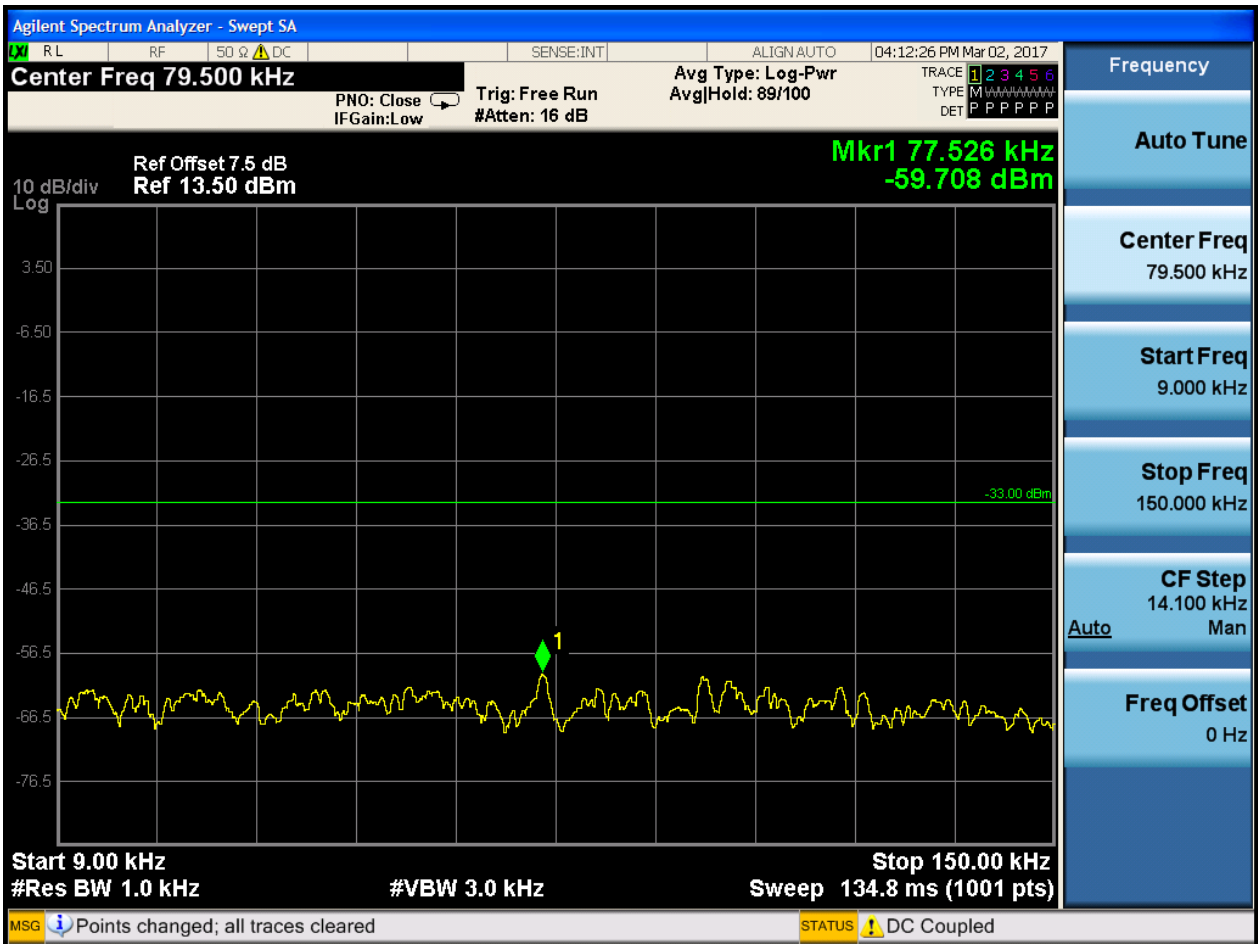


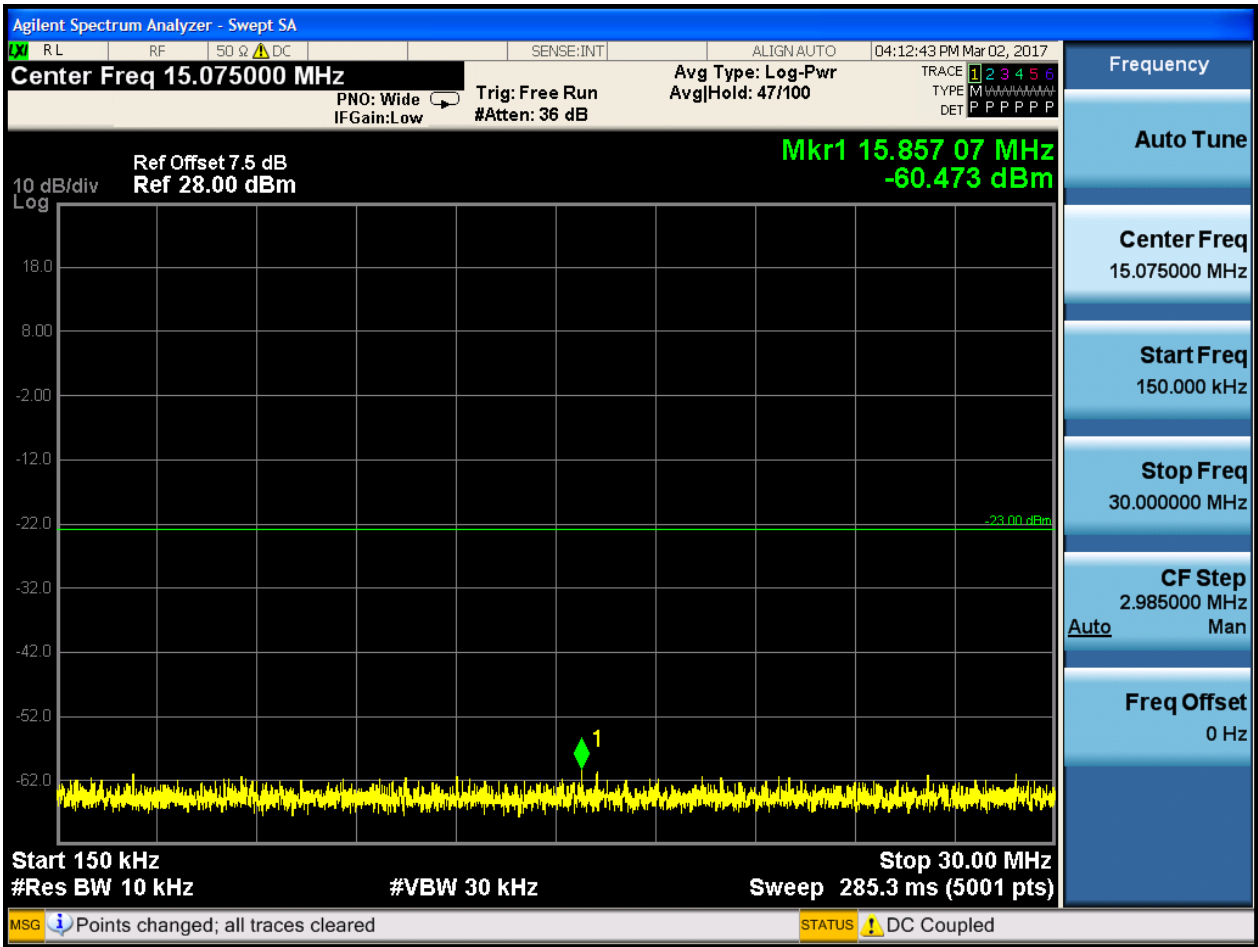


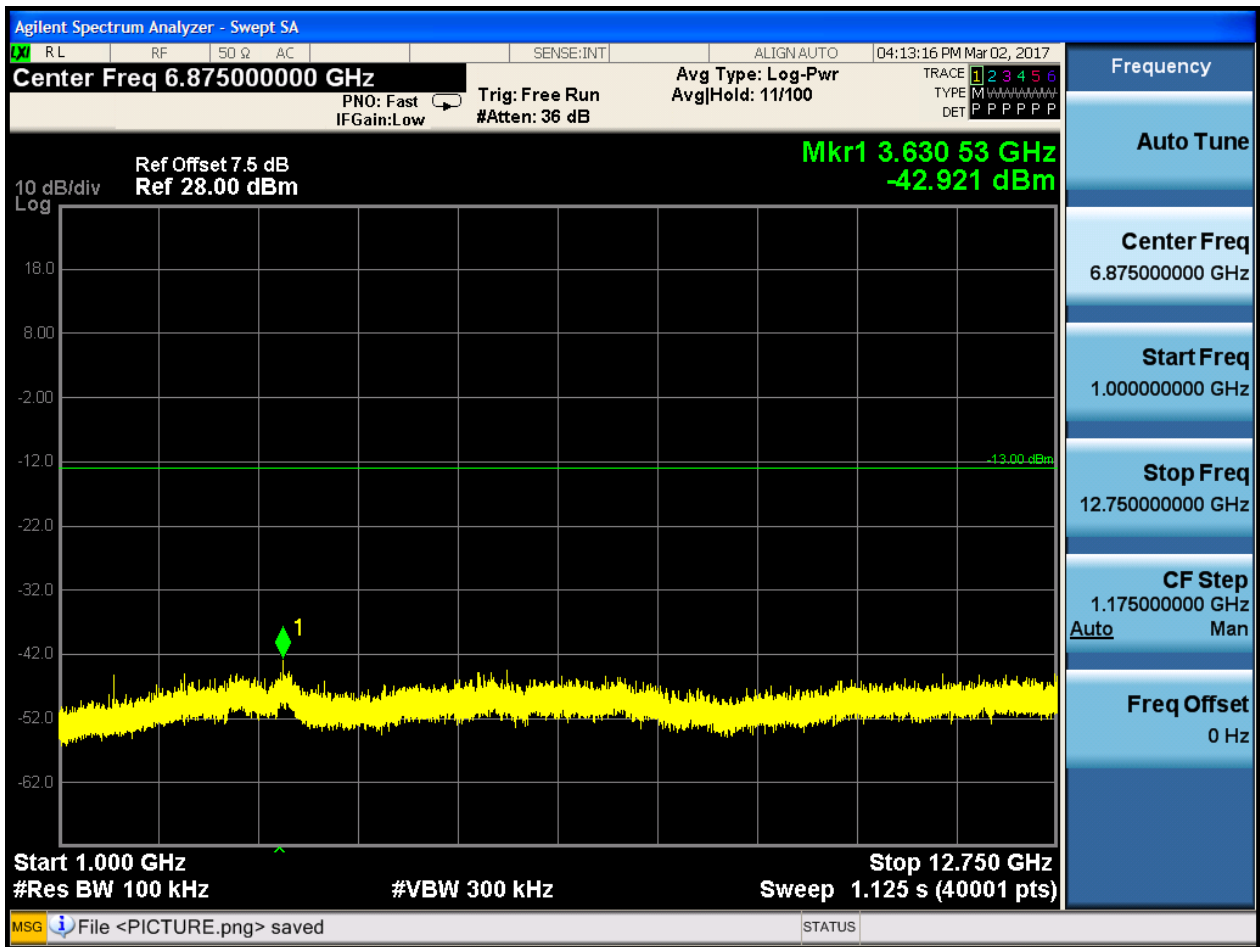
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



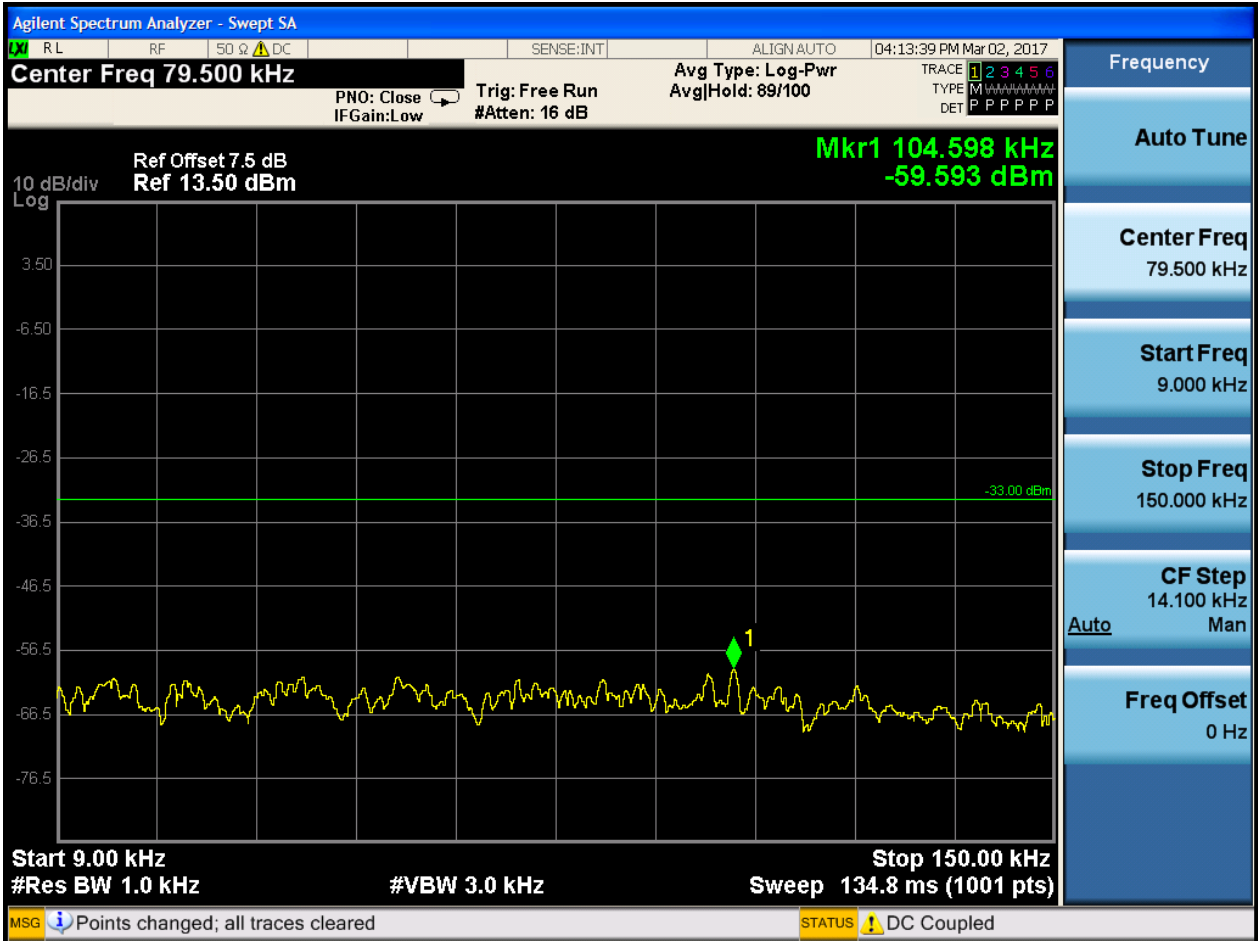


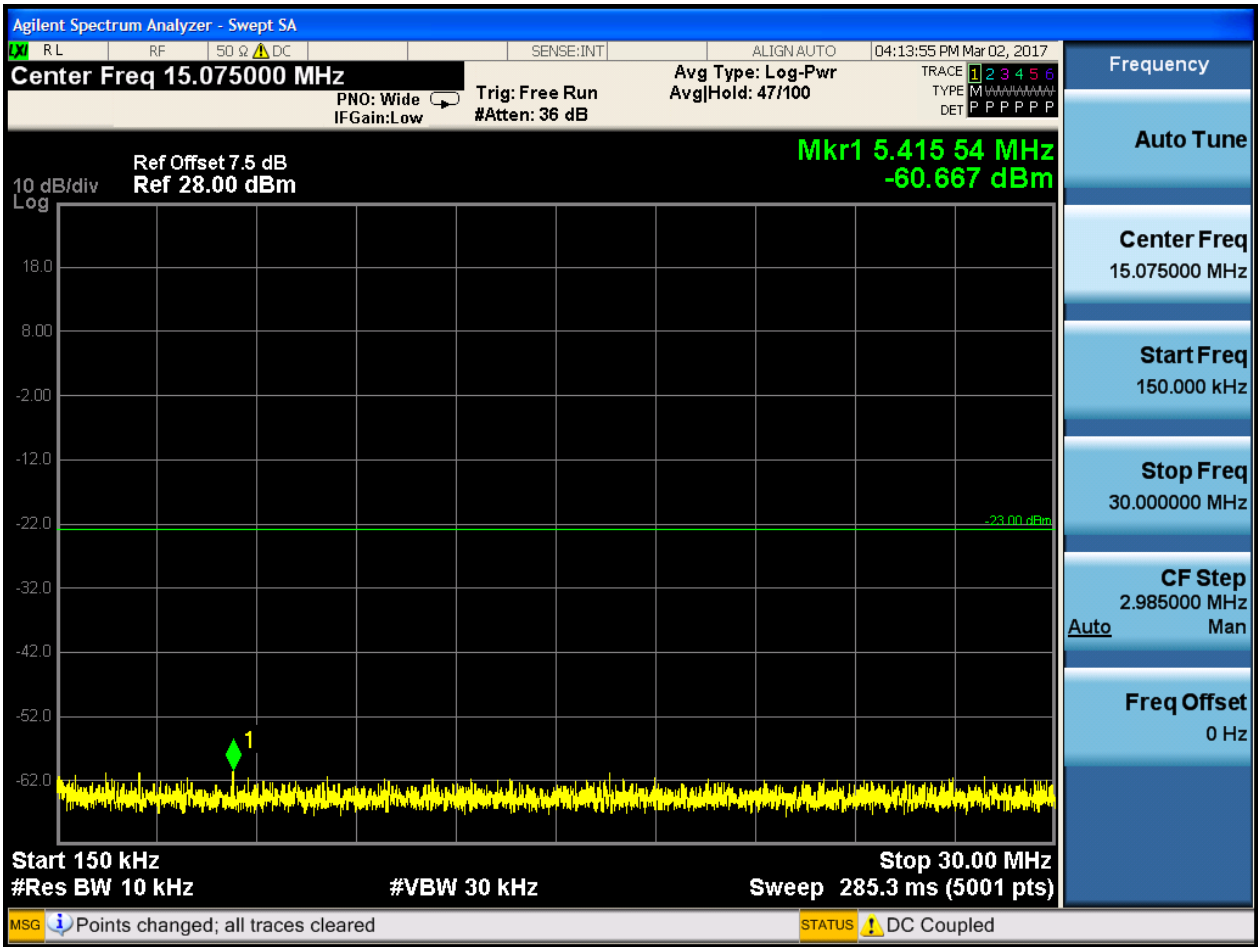


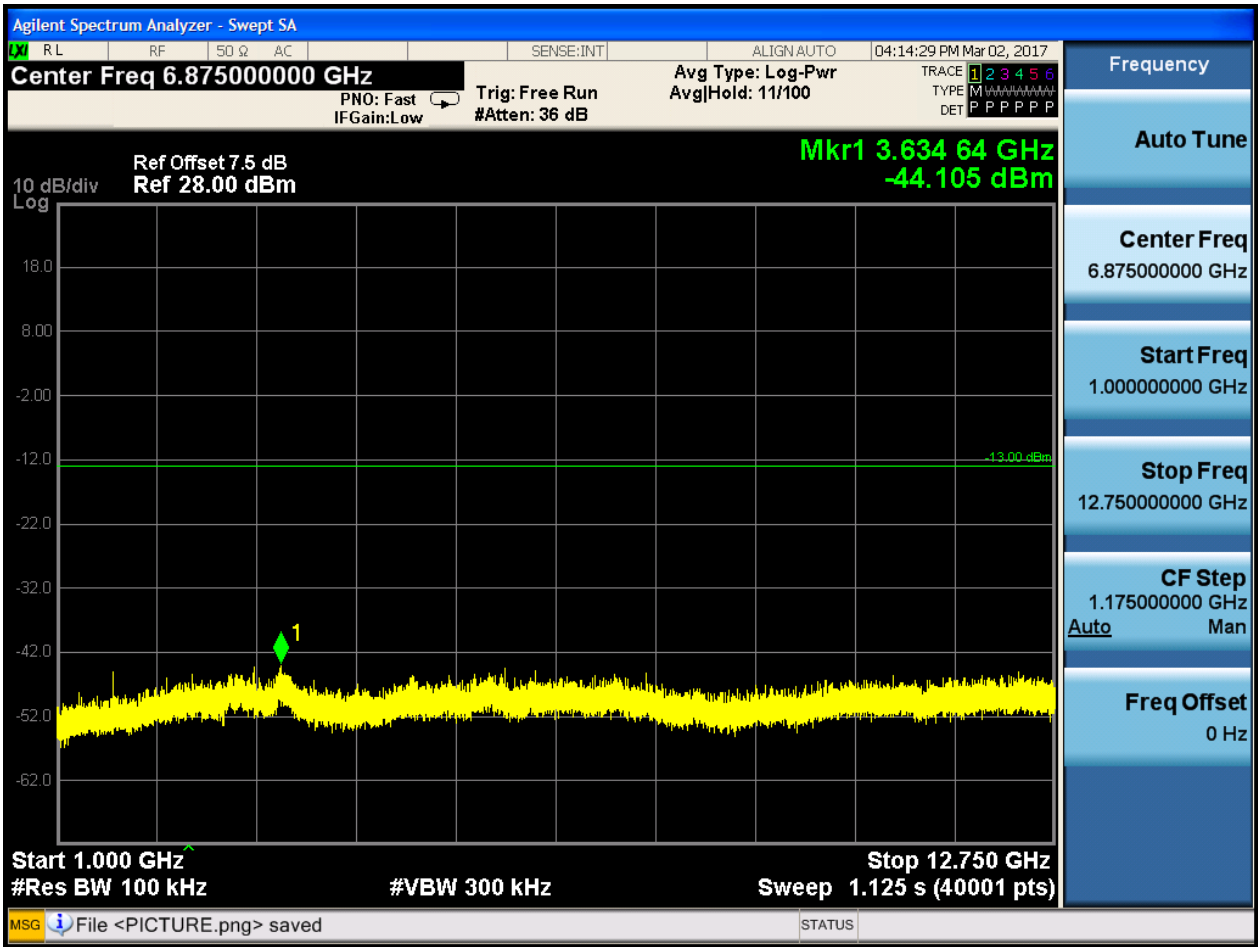


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



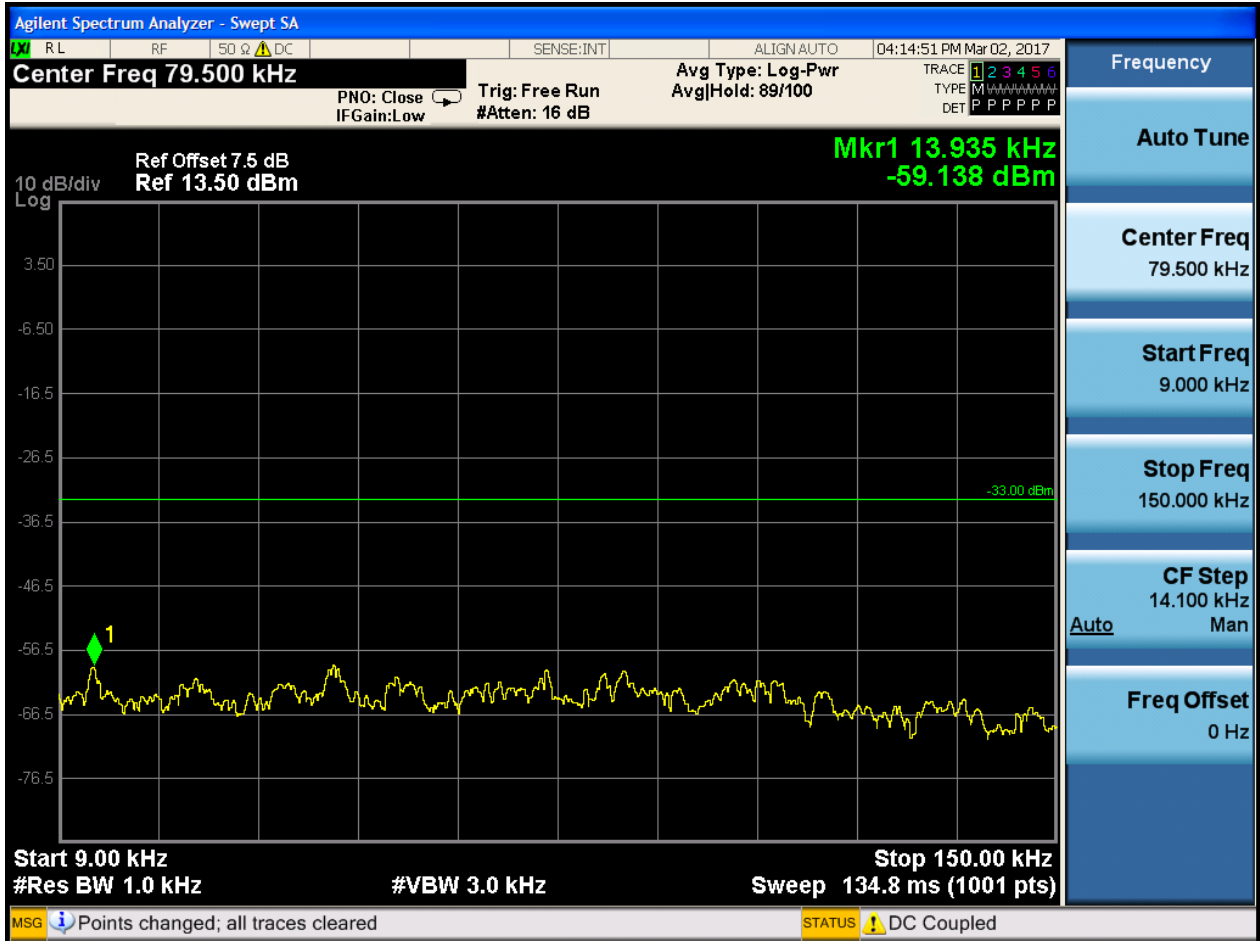


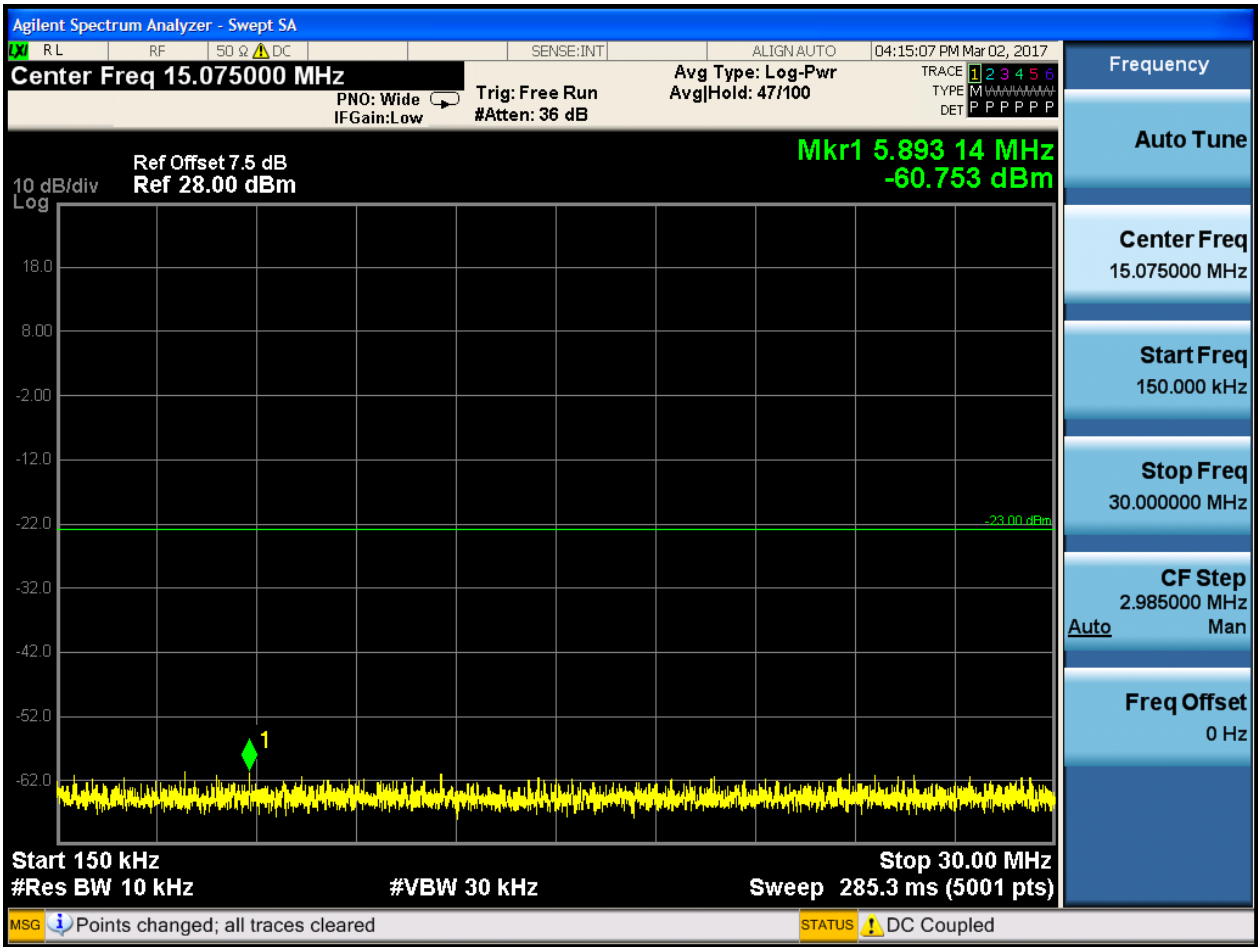


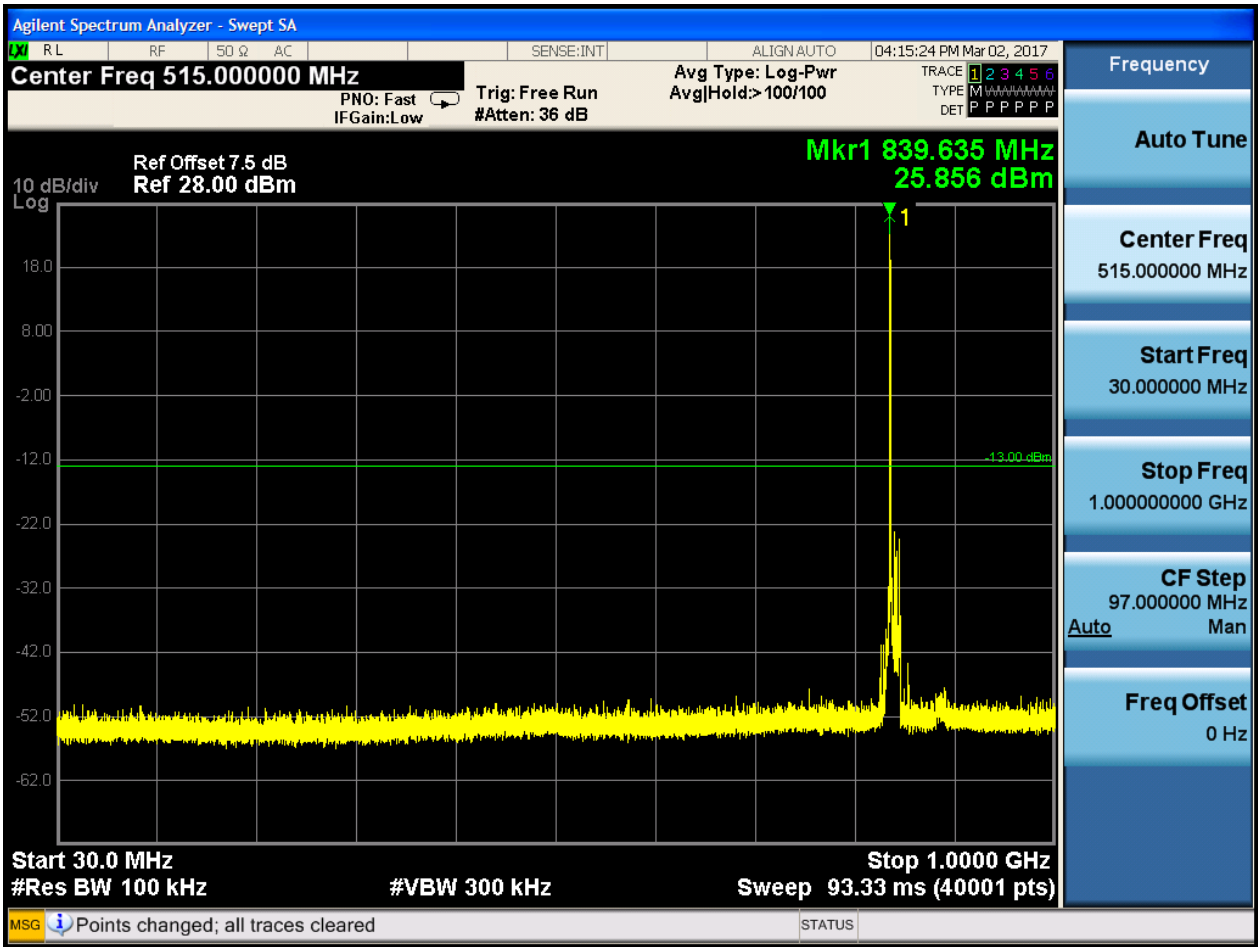


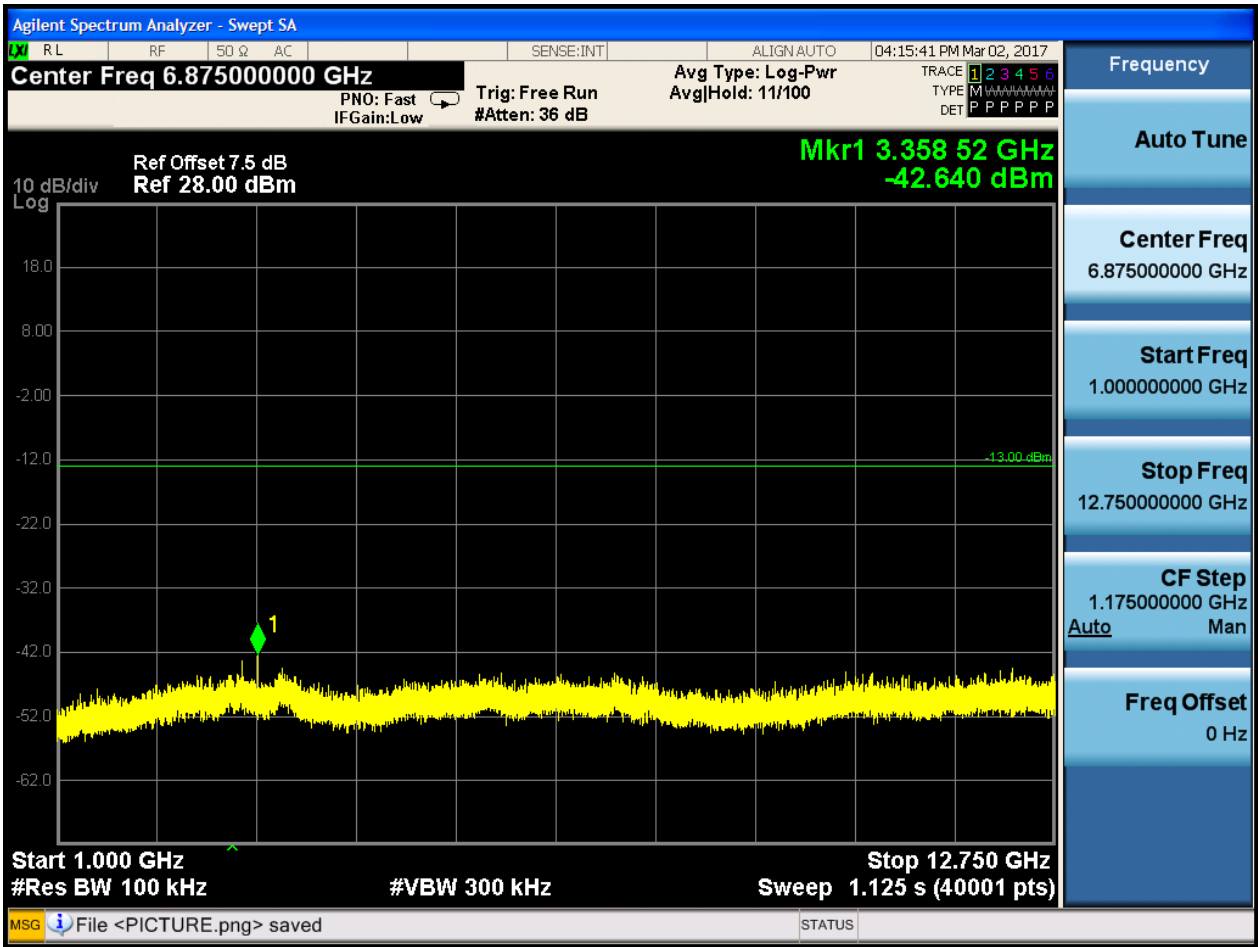
6.1.1.2.4.3 Test Channel = HCH

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

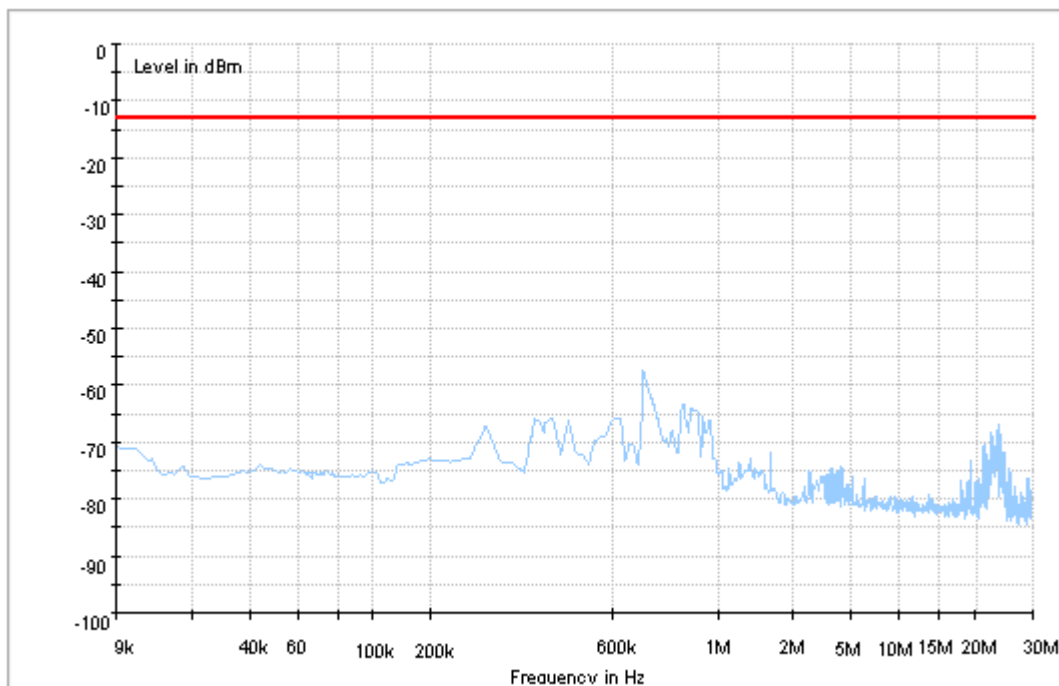
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

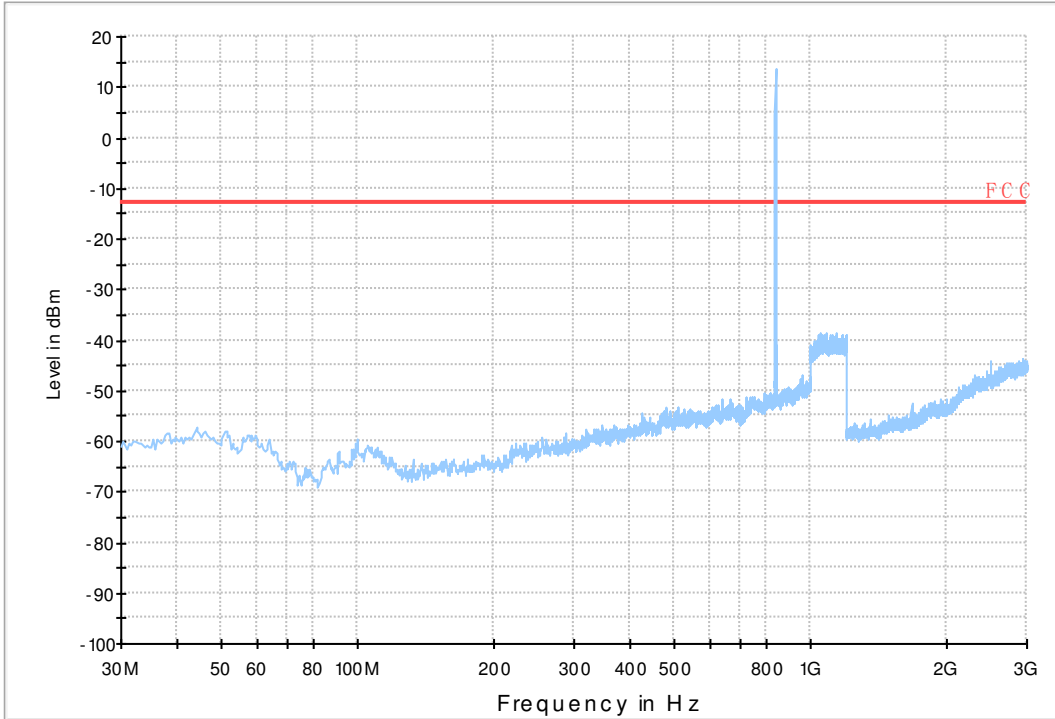
7.1 For LTE

7.1.1 Test Band = BAND5

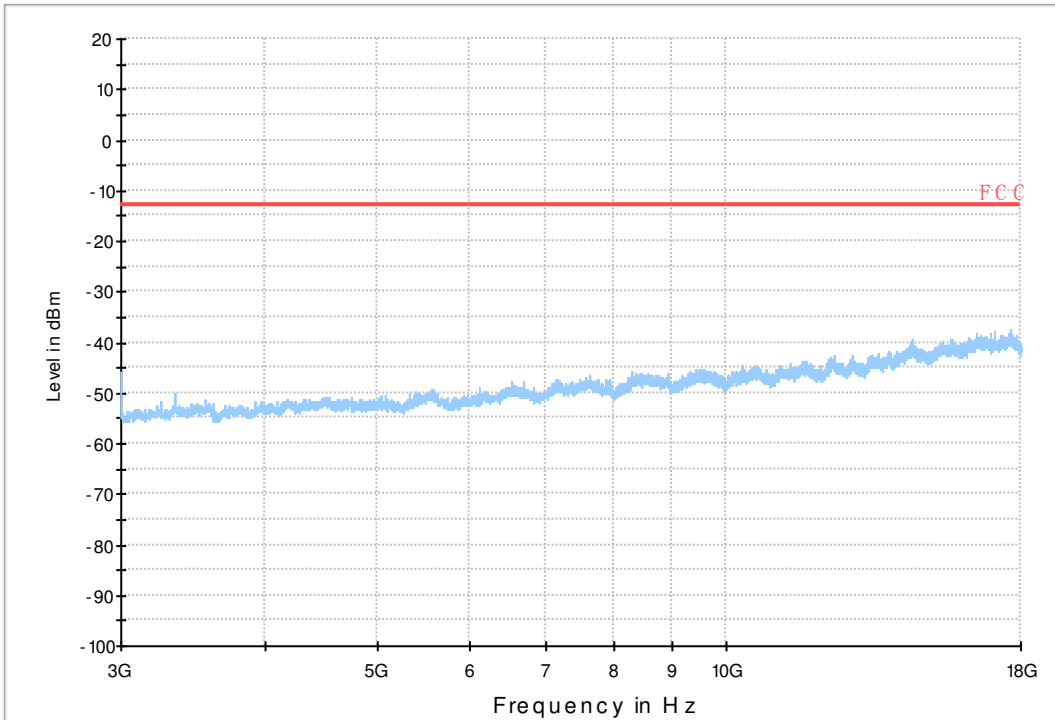
7.1.1.1 Test Bandwidth = 1.4



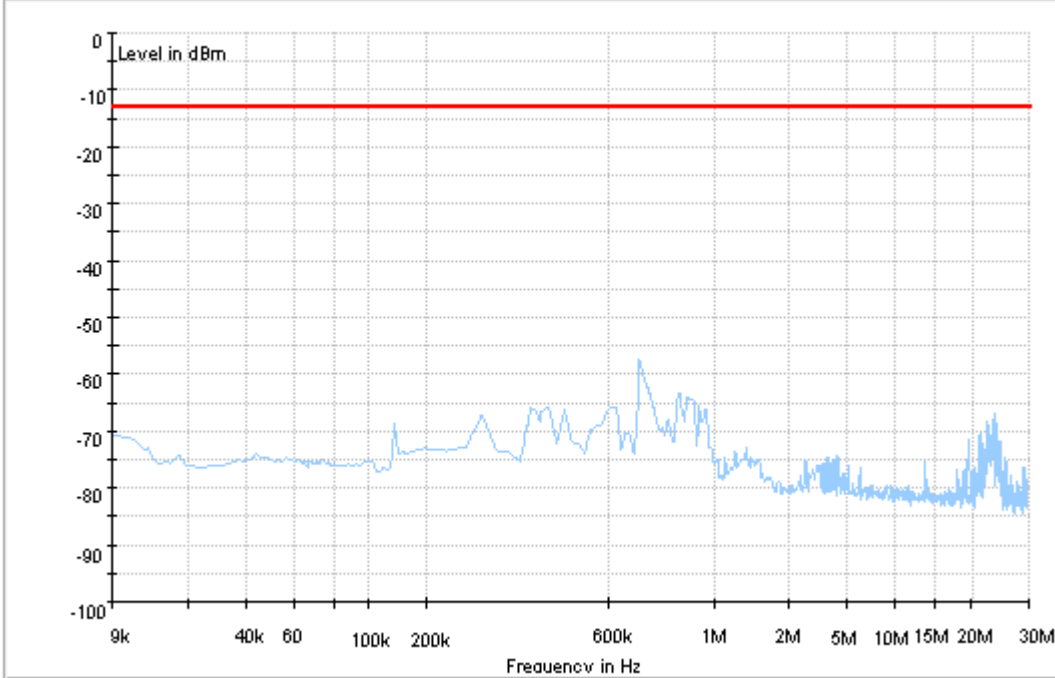
Copy of RSE-TX-DIRECTOR BELOW 1G_L



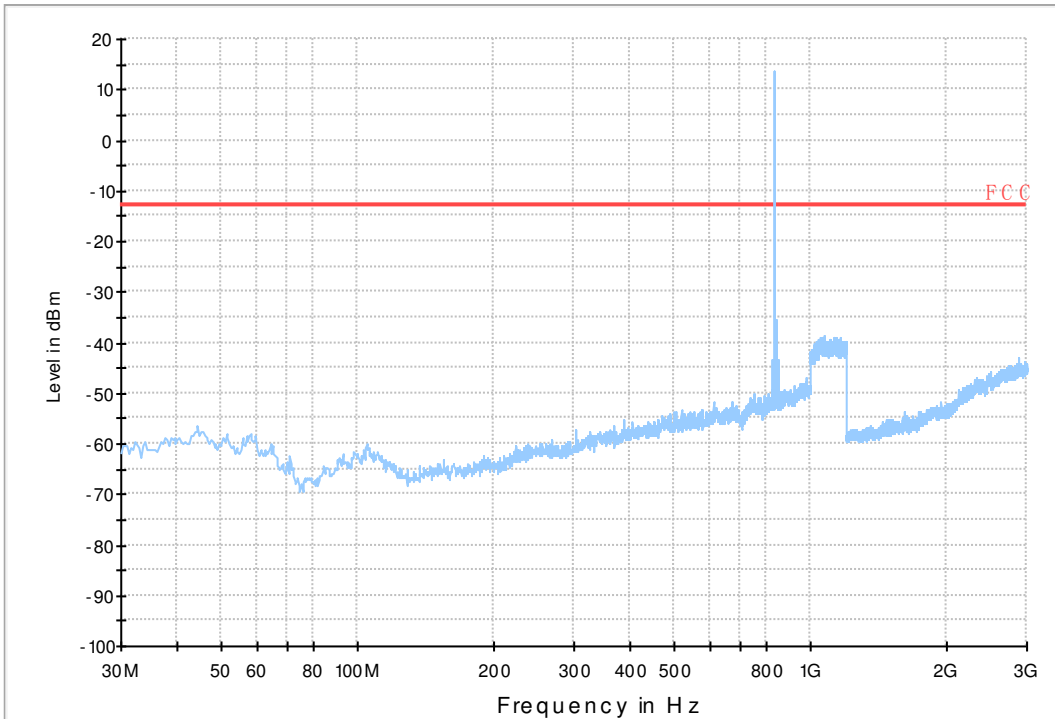
Copy of RSE-TX-DIRECTOR BELOW 1G_H



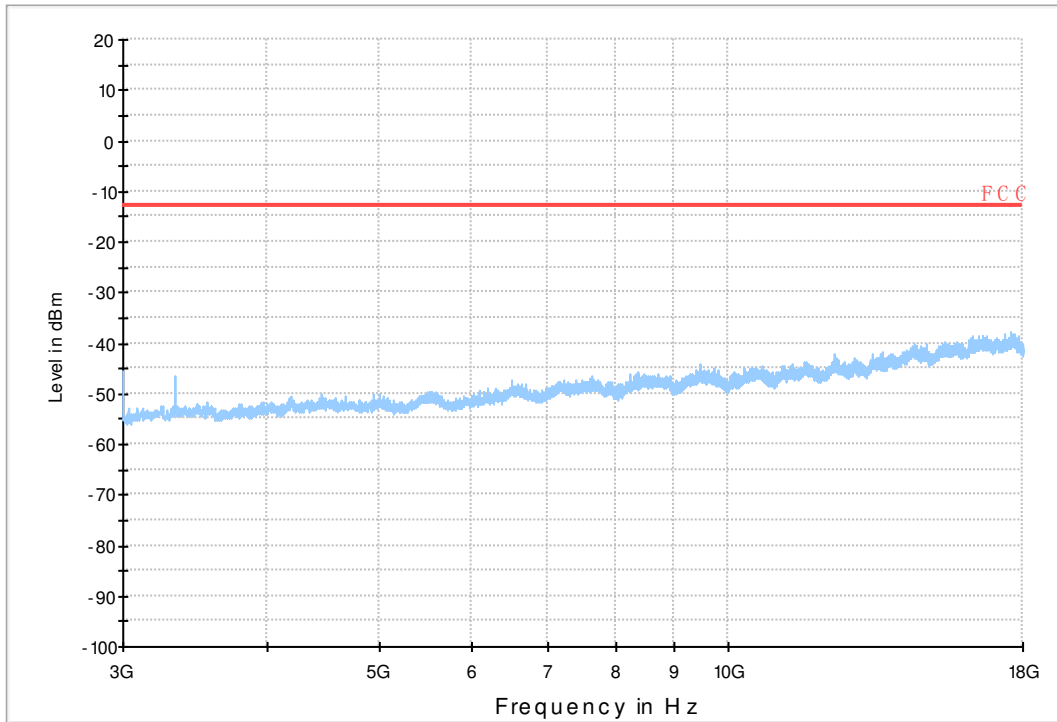
7.1.1.3 Test Bandwidth = 10



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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-1.92	-0.00233	PASS
					VN	-1.66	-0.00201	PASS
					VH	-2.33	-0.00283	PASS
			MCH	TN	VL	-1.32	-0.00158	PASS
					VN	-0.66	-0.00079	PASS
					VH	0.17	0.0002	PASS
			HCH	TN	VL	-1.92	-0.00226	PASS
					VN	0.63	0.00074	PASS
					VH	-3.20	-0.00377	PASS
		3	LCH	TN	VL	-0.86	-0.00104	PASS
					VN	0.01	0.00001	PASS
					VH	-0.57	-0.00069	PASS
			MCH	TN	VL	0.80	0.00096	PASS
					VN	-1.16	-0.00139	PASS
					VH	-0.72	-0.00086	PASS
			HCH	TN	VL	1.17	0.00138	PASS
					VN	-1.47	-0.00173	PASS
					VH	0.70	0.00083	PASS
		5	LCH	TN	VL	-3.66	-0.00443	PASS
					VN	-1.73	-0.00209	PASS
					VH	-0.39	-0.00047	PASS
			MCH	TN	VL	0.60	0.00072	PASS
					VN	-0.20	-0.00024	PASS
					VH	-0.09	-0.00011	PASS
HCH	TN		VL	-2.82	-0.00333	PASS		
			VN	4.52	0.00534	PASS		
			VH	-0.24	-0.00028	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
		10	LCH	TN	VL	-0.03	-0.00004	PASS		
					VN	1.00	0.00121	PASS		
					VH	-0.03	-0.00004	PASS		
			MCH	TN	VL	-0.57	-0.00068	PASS		
					VN	-0.60	-0.00072	PASS		
					VH	-0.69	-0.00082	PASS		
			HCH	TN	VL	10.27	0.01217	PASS		
					VN	4.51	0.00534	PASS		
					VH	4.68	0.00555	PASS		
			LTE/TM2	1.4	LCH	TN	VL	-3.81	-0.00462	PASS
							VN	-0.92	-0.00112	PASS
							VH	-2.03	-0.00246	PASS
		MCH			TN	VL	0.29	0.00035	PASS	
						VN	-2.46	-0.00294	PASS	
						VH	-0.64	-0.00077	PASS	
		HCH			TN	VL	0.49	0.00058	PASS	
						VN	4.55	0.00536	PASS	
						VH	11.57	0.01364	PASS	
		3			LCH	TN	VL	1.44	0.00174	PASS
							VN	2.40	0.00291	PASS
							VH	1.59	0.00193	PASS
				MCH	TN	VL	-0.93	-0.00111	PASS	
						VN	-1.57	-0.00188	PASS	
						VH	-1.02	-0.00122	PASS	
	HCH			TN	VL	4.61	0.00544	PASS		
					VN	-6.90	-0.00814	PASS		
					VH	2.40	0.00283	PASS		
	5	LCH		TN	VL	-1.67	-0.00202	PASS		
					VN	-1.62	-0.00196	PASS		
					VH	-1.60	-0.00194	PASS		
		MCH		TN	VL	-2.23	-0.00267	PASS		
					VN	-2.30	-0.00275	PASS		
					VH	-1.70	-0.00203	PASS		
		HCH	TN	VL	1.12	0.00132	PASS			
				VN	14.72	0.01739	PASS			
				VH	-12.25	-0.01447	PASS			
	10	LCH	TN	VL	0.41	0.00049	PASS			
				VN	-0.13	-0.00016	PASS			
				VH	-1.13	-0.00136	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	0.54	0.00065	PASS
					VN	-0.77	-0.00092	PASS
					VH	-1.40	-0.00167	PASS
			HCH	TN	VL	1.29	0.00153	PASS
					VN	-0.21	-0.00025	PASS
					VH	-4.52	-0.00536	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
BAND5	LTE/TM1	1.4	LCH	VN	-30	-1.16	-0.00141	PASS
					-20	1.46	0.00177	PASS
					-10	11.42	0.01385	PASS
					0	-2.78	-0.00337	PASS
					10	1.27	0.00154	PASS
					20	0.13	0.00016	PASS
					30	1.36	0.00165	PASS
					40	0.74	0.0009	PASS
					50	-0.07	-0.00008	PASS
			MCH	VN	-30	-0.19	-0.00023	PASS
					-20	-0.80	-0.00096	PASS
					-10	-0.60	-0.00072	PASS
					0	-1.13	-0.00135	PASS
					10	-1.40	-0.00167	PASS
					20	-1.24	-0.00148	PASS
					30	-0.50	-0.0006	PASS
					40	-1.70	-0.00203	PASS
			HCH	VN	-30	-0.24	-0.00028	PASS
					-20	1.20	0.00141	PASS
					-10	-0.73	-0.00086	PASS
					0	0.47	0.00055	PASS
					10	1.47	0.00173	PASS
					20	0.19	0.00022	PASS
					30	-0.83	-0.00098	PASS
40	-0.62	-0.00073	PASS					
50	0.49	0.00058	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		3	LCH	VN	-30	-0.39	-0.00047	PASS
					-20	-1.39	-0.00168	PASS
					-10	0.96	0.00116	PASS
					0	-2.93	-0.00355	PASS
					10	-1.06	-0.00128	PASS
					20	-1.46	-0.00177	PASS
					30	0.57	0.00069	PASS
					40	1.04	0.00126	PASS
					50	-0.51	-0.00062	PASS
			MCH	VN	-30	-1.09	-0.0013	PASS
					-20	-1.83	-0.00219	PASS
					-10	-1.62	-0.00194	PASS
					0	-0.37	-0.00044	PASS
					10	-1.95	-0.00233	PASS
					20	-0.37	-0.00044	PASS
					30	-0.80	-0.00096	PASS
					40	-0.53	-0.00063	PASS
					50	-1.39	-0.00166	PASS
		HCH	VN	-30	-0.23	-0.00027	PASS	
				-20	-1.43	-0.00169	PASS	
				-10	-1.63	-0.00192	PASS	
				0	-1.23	-0.00145	PASS	
				10	0.13	0.00015	PASS	
				20	-1.13	-0.00133	PASS	
				30	-0.86	-0.00101	PASS	
				40	-2.59	-0.00306	PASS	
				50	-0.29	-0.00034	PASS	
		5	LCH	VN	-30	-1.77	-0.00214	PASS
					-20	-1.43	-0.00173	PASS
					-10	-0.56	-0.00068	PASS
					0	0.70	0.00085	PASS
					10	0.20	0.00024	PASS
					20	0.19	0.00023	PASS
					30	-1.86	-0.00225	PASS
					40	-1.49	-0.0018	PASS
					50	0.11	0.00013	PASS
MCH	VN		-30	-0.33	-0.00039	PASS		
			-20	-0.43	-0.00051	PASS		
			-10	-0.29	-0.00035	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-0.72	-0.00086	PASS
					10	0.11	0.00013	PASS
					20	-0.90	-0.00108	PASS
					30	0.33	0.00039	PASS
					40	0.24	0.00029	PASS
					50	0.90	0.00108	PASS
			HCH	VN	-30	-0.89	-0.00105	PASS
					-20	-0.09	-0.00011	PASS
					-10	-0.64	-0.00076	PASS
					0	-0.76	-0.0009	PASS
					10	0.01	0.00001	PASS
					20	-0.03	-0.00004	PASS
					30	-0.50	-0.00059	PASS
					40	-0.57	-0.00067	PASS
		50	-1.40	-0.00165	PASS			
		10	LCH	VN	-30	-1.39	-0.00168	PASS
					-20	-0.69	-0.00083	PASS
					-10	-1.57	-0.00189	PASS
					0	-1.33	-0.0016	PASS
					10	-0.59	-0.00071	PASS
					20	-0.33	-0.0004	PASS
					30	0.00	0	PASS
					40	0.06	0.00007	PASS
					50	-0.80	-0.00097	PASS
					MCH	VN	-30	-0.93
			-20	0.60			0.00072	PASS
			-10	-4.28			-0.00512	PASS
			0	4.65			0.00556	PASS
			10	-0.99			-0.00118	PASS
			20	-0.10			-0.00012	PASS
			30	-1.09			-0.0013	PASS
			40	-1.93			-0.00231	PASS
			50	-1.16	-0.00139	PASS		
		HCH	VN	-30	-1.12	-0.00133	PASS	
				-20	-0.21	-0.00025	PASS	
				-10	-0.06	-0.00007	PASS	
				0	-0.63	-0.00075	PASS	
				10	-0.41	-0.00049	PASS	
				20	-1.53	-0.00181	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			30	-0.54	-0.00064	PASS		
					40	0.63	0.00075	PASS		
					50	-1.39	-0.00165	PASS		
			LCH	VN	-30	-2.19	-0.00266	PASS		
					-20	-0.21	-0.00025	PASS		
					-10	-2.69	-0.00326	PASS		
					0	-1.49	-0.00181	PASS		
					10	-2.55	-0.00309	PASS		
					20	-2.07	-0.00251	PASS		
					30	0.82	0.00099	PASS		
					40	-3.45	-0.00418	PASS		
					50	-0.27	-0.00033	PASS		
					MCH	VN	-30	-1.54	-0.00184	PASS
							-20	-0.09	-0.00011	PASS
							-10	-2.00	-0.00239	PASS
		0	-0.37	-0.00044			PASS			
		10	0.59	0.00071			PASS			
		20	-0.11	-0.00013			PASS			
		HCH	VN	30	-0.24	-0.00029	PASS			
				40	0.09	0.00011	PASS			
				50	0.44	0.00053	PASS			
				-30	-0.31	-0.00037	PASS			
				-20	-9.44	-0.01113	PASS			
				-10	-0.16	-0.00019	PASS			
				0	5.36	0.00632	PASS			
				10	0.92	0.00108	PASS			
				20	-11.46	-0.01351	PASS			
		3	LCH	VN	30	0.47	0.00055	PASS		
					40	-0.87	-0.00103	PASS		
					50	-3.28	-0.00387	PASS		
					-30	-5.49	-0.00665	PASS		
					-20	0.67	0.00081	PASS		
					-10	1.76	0.00213	PASS		
0	0.11				0.00013	PASS				
10	-3.20				-0.00388	PASS				
20	-2.36				-0.00286	PASS				
30	0.46	0.00056	PASS							
40	-1.54	-0.00187	PASS							
50	-0.89	-0.00108	PASS							



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	-1.42	-0.0017	PASS
					-20	-0.89	-0.00106	PASS
					-10	-0.51	-0.00061	PASS
					0	-0.20	-0.00024	PASS
					10	-2.09	-0.0025	PASS
					20	-0.21	-0.00025	PASS
					30	-0.03	-0.00004	PASS
					40	-2.03	-0.00243	PASS
					50	0.44	0.00053	PASS
			HCH	VN	-30	-3.33	-0.00393	PASS
					-20	-3.32	-0.00392	PASS
					-10	-0.64	-0.00076	PASS
					0	-1.49	-0.00176	PASS
					10	-0.46	-0.00054	PASS
					20	-2.12	-0.0025	PASS
					30	-2.02	-0.00238	PASS
					40	-1.19	-0.0014	PASS
					50	-2.00	-0.00236	PASS
		5	LCH	VN	-30	-2.20	-0.00266	PASS
					-20	-0.63	-0.00076	PASS
					-10	-1.92	-0.00232	PASS
					0	0.06	0.00007	PASS
					10	0.10	0.00012	PASS
					20	-2.10	-0.00254	PASS
					30	-0.40	-0.00048	PASS
					40	-1.10	-0.00133	PASS
					50	-1.72	-0.00208	PASS
			MCH	VN	-30	-0.67	-0.0008	PASS
					-20	0.20	0.00024	PASS
					-10	-0.37	-0.00044	PASS
					0	-0.74	-0.00088	PASS
					10	-0.26	-0.00031	PASS
					20	0.41	0.00049	PASS
					30	0.21	0.00025	PASS
					40	-0.40	-0.00048	PASS
					50	-0.60	-0.00072	PASS
HCH	VN	-30	-0.47	-0.00056	PASS			
		-20	-0.59	-0.0007	PASS			
		-10	-2.10	-0.00248	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					0	0.60	0.00071	PASS		
					10	-0.49	-0.00058	PASS		
					20	0.24	0.00028	PASS		
					30	-0.62	-0.00073	PASS		
					40	-0.92	-0.00109	PASS		
					50	0.01	0.00001	PASS		
		10	LCH	VN	-30	-2.39	-0.00288	PASS		
					-20	-1.77	-0.00214	PASS		
					-10	-1.39	-0.00168	PASS		
					0	-3.60	-0.00434	PASS		
					10	-0.29	-0.00035	PASS		
					20	-2.07	-0.0025	PASS		
					30	-0.72	-0.00087	PASS		
					40	-1.43	-0.00172	PASS		
					50	0.60	0.00072	PASS		
					MCH	VN	-30	-0.97	-0.00116	PASS
							-20	-0.21	-0.00025	PASS
							-10	-2.19	-0.00262	PASS
							0	-0.84	-0.001	PASS
							10	-0.37	-0.00044	PASS
							20	-3.08	-0.00368	PASS
							30	-0.36	-0.00043	PASS
							40	-1.33	-0.00159	PASS
					HCH	VN	-30	0.49	0.00058	PASS
		-20	-0.36	-0.00043			PASS			
		-10	-2.56	-0.00303			PASS			
		0	-3.28	-0.00389			PASS			
		10	-0.63	-0.00075			PASS			
		20	-1.27	-0.0015			PASS			
		30	-0.40	-0.00047			PASS			
40	-0.50	-0.00059	PASS							
50	-0.73	-0.00086	PASS							

END