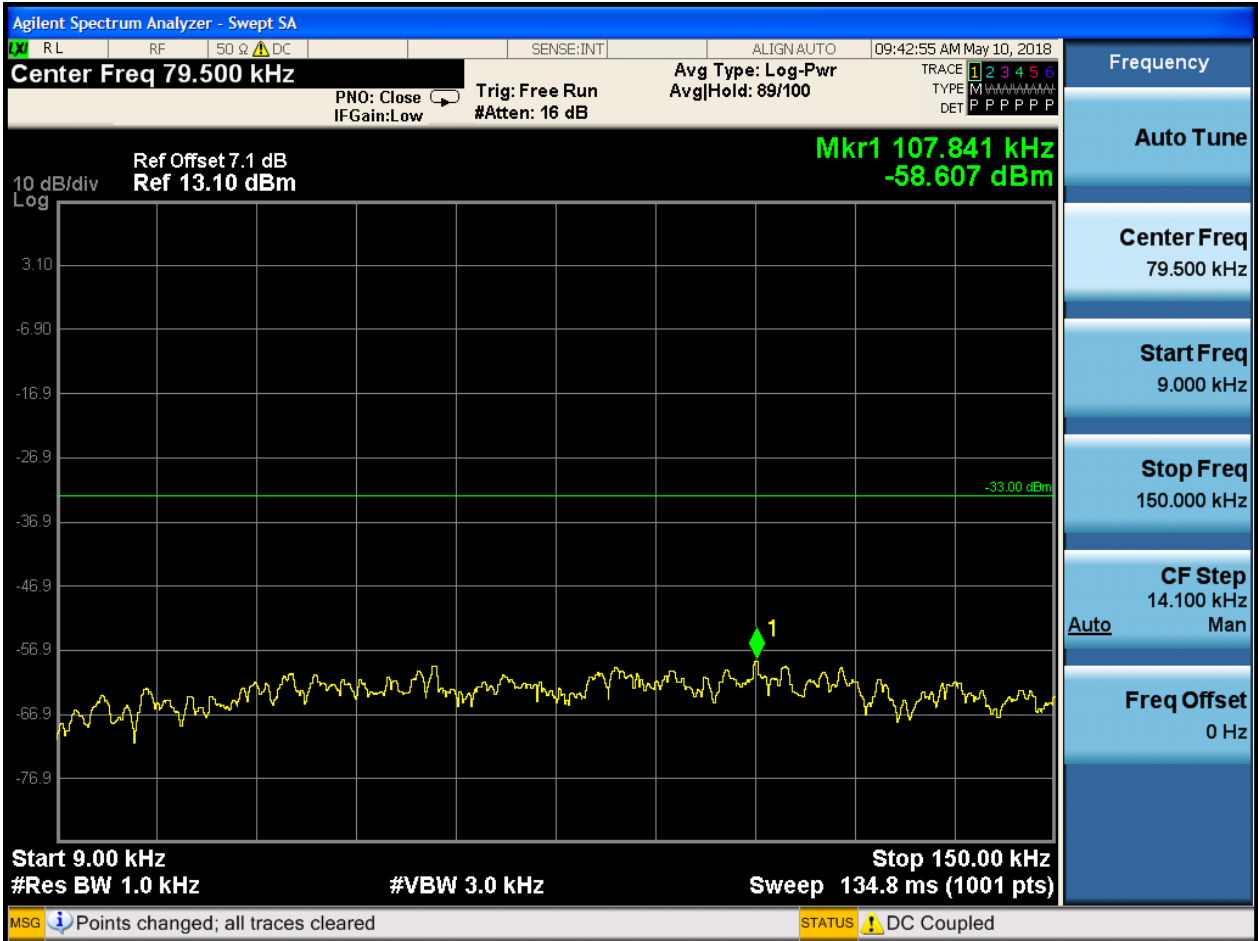
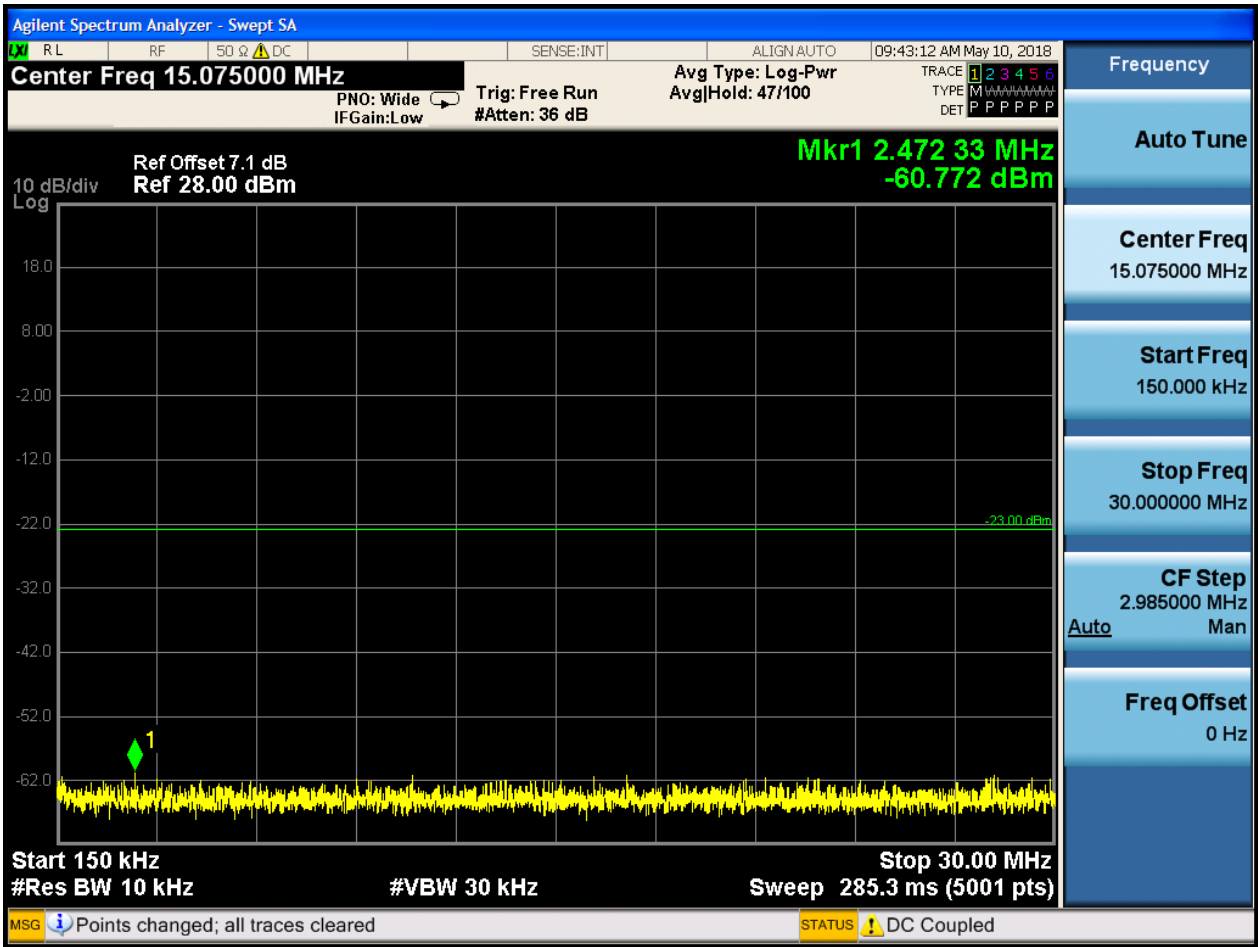


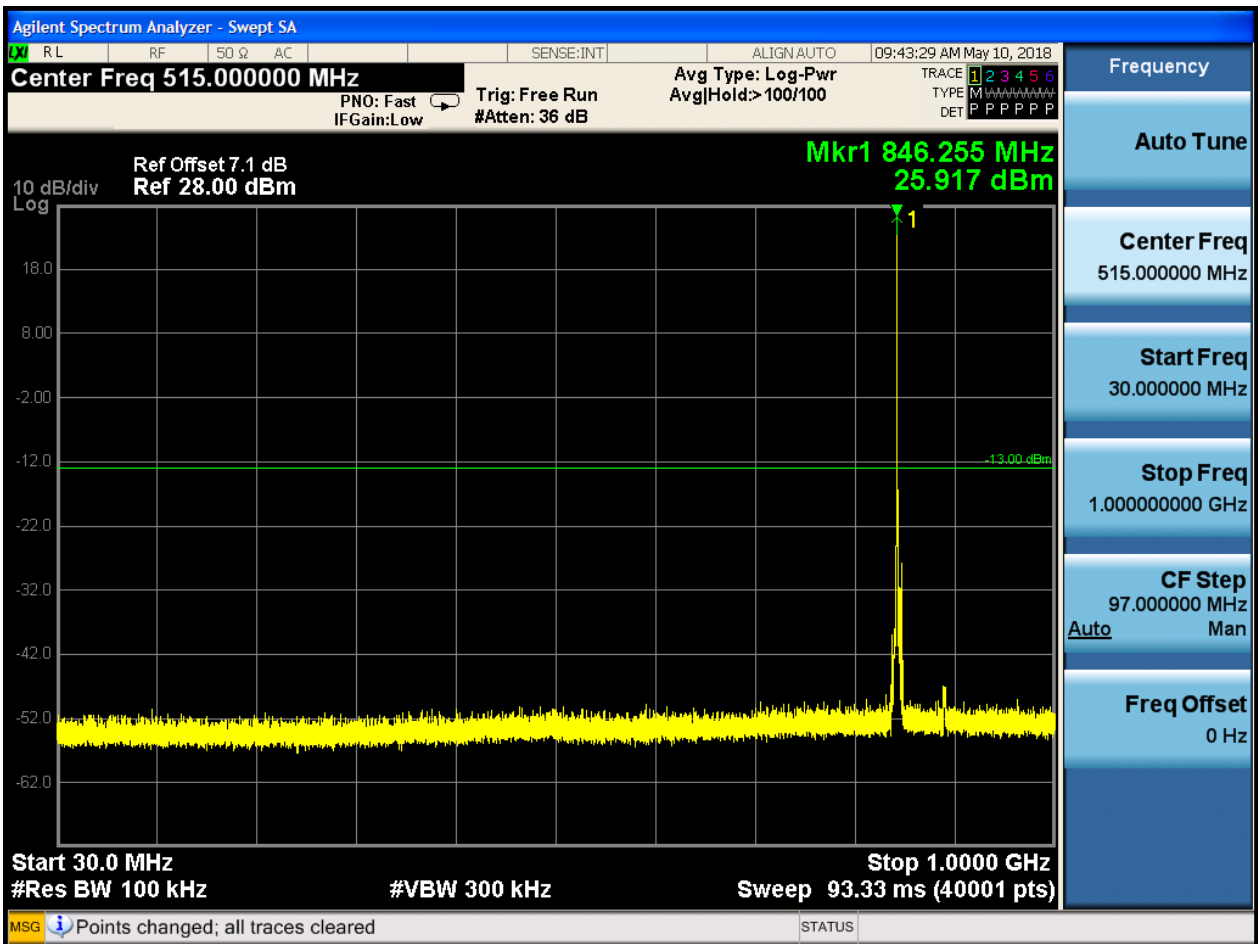


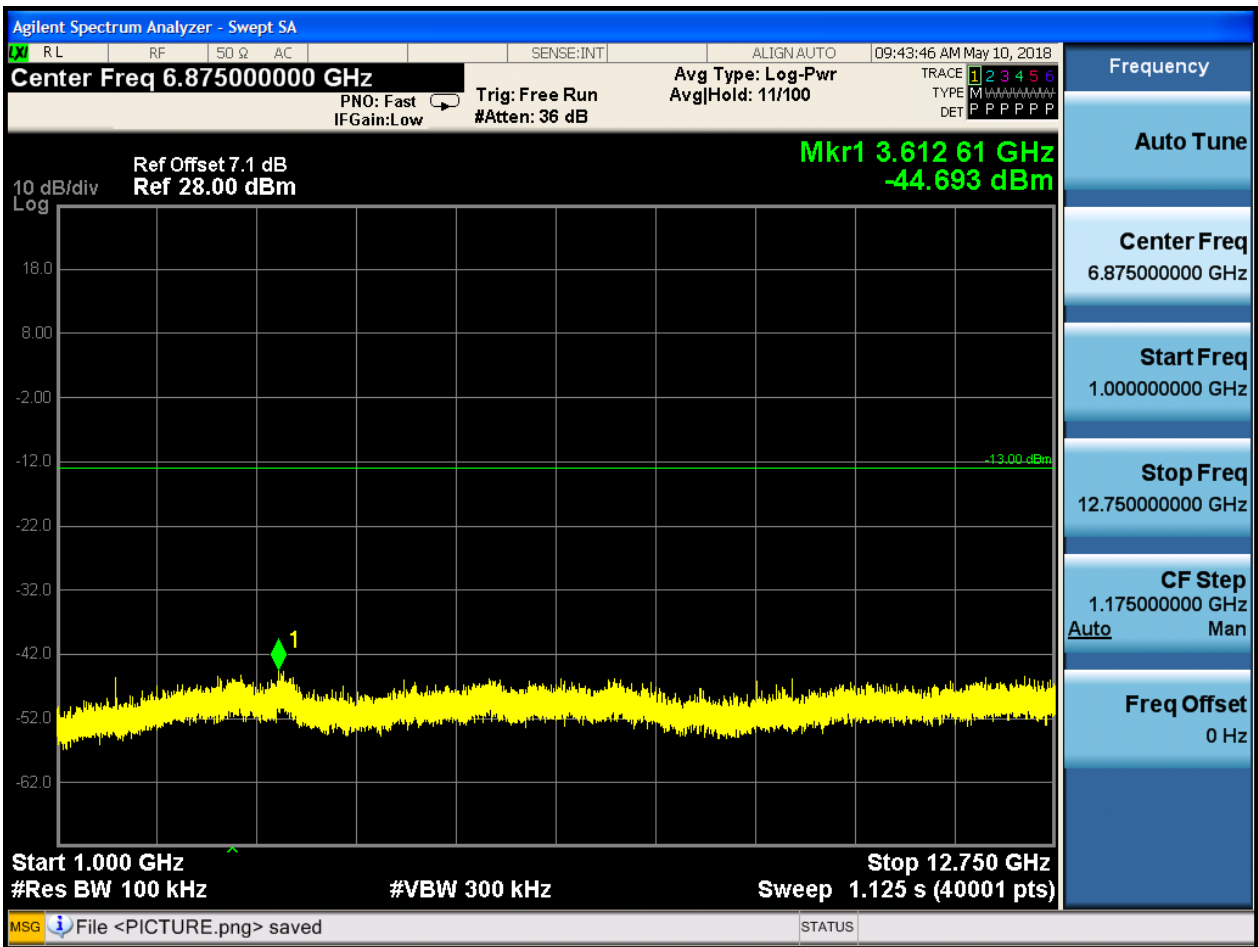
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







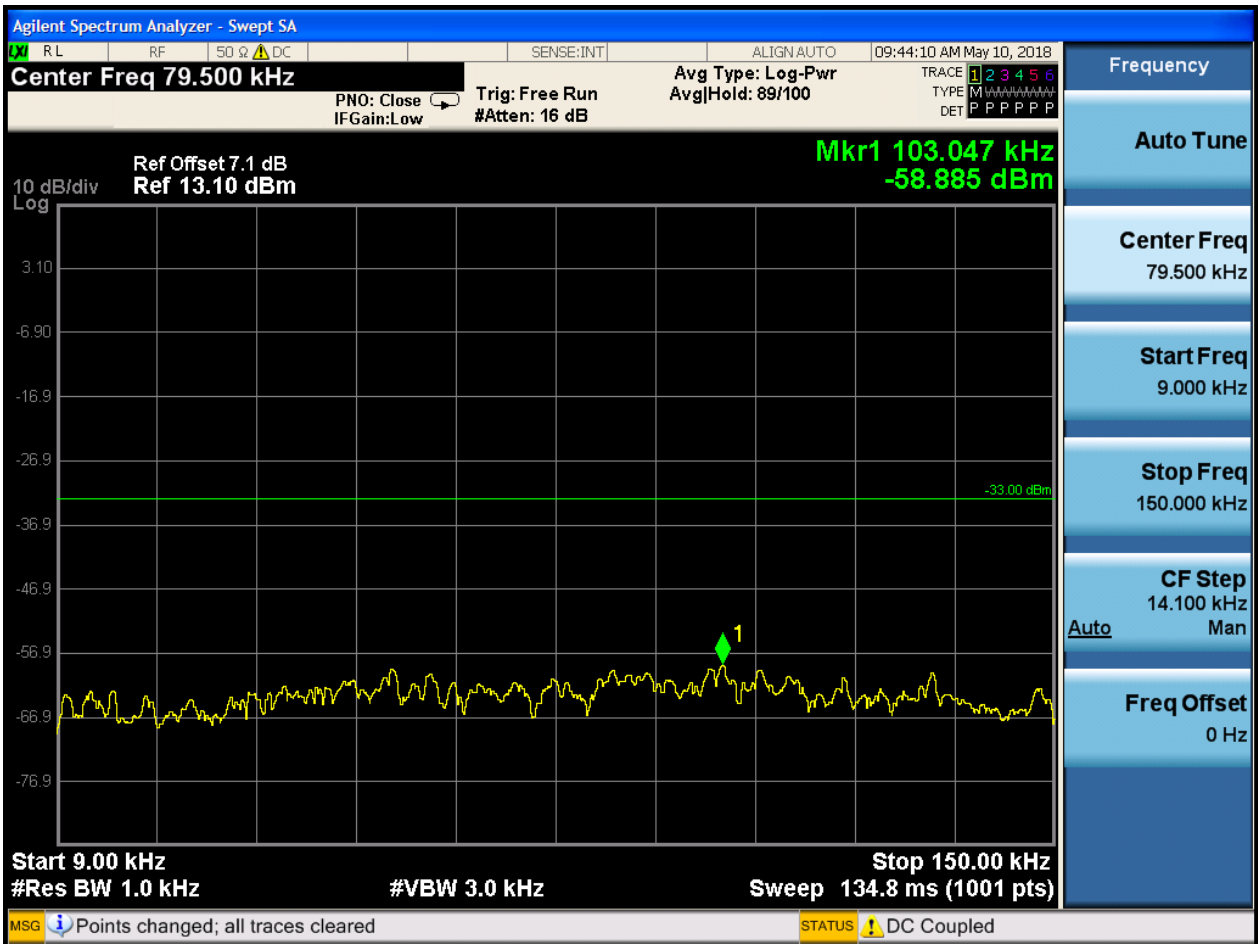




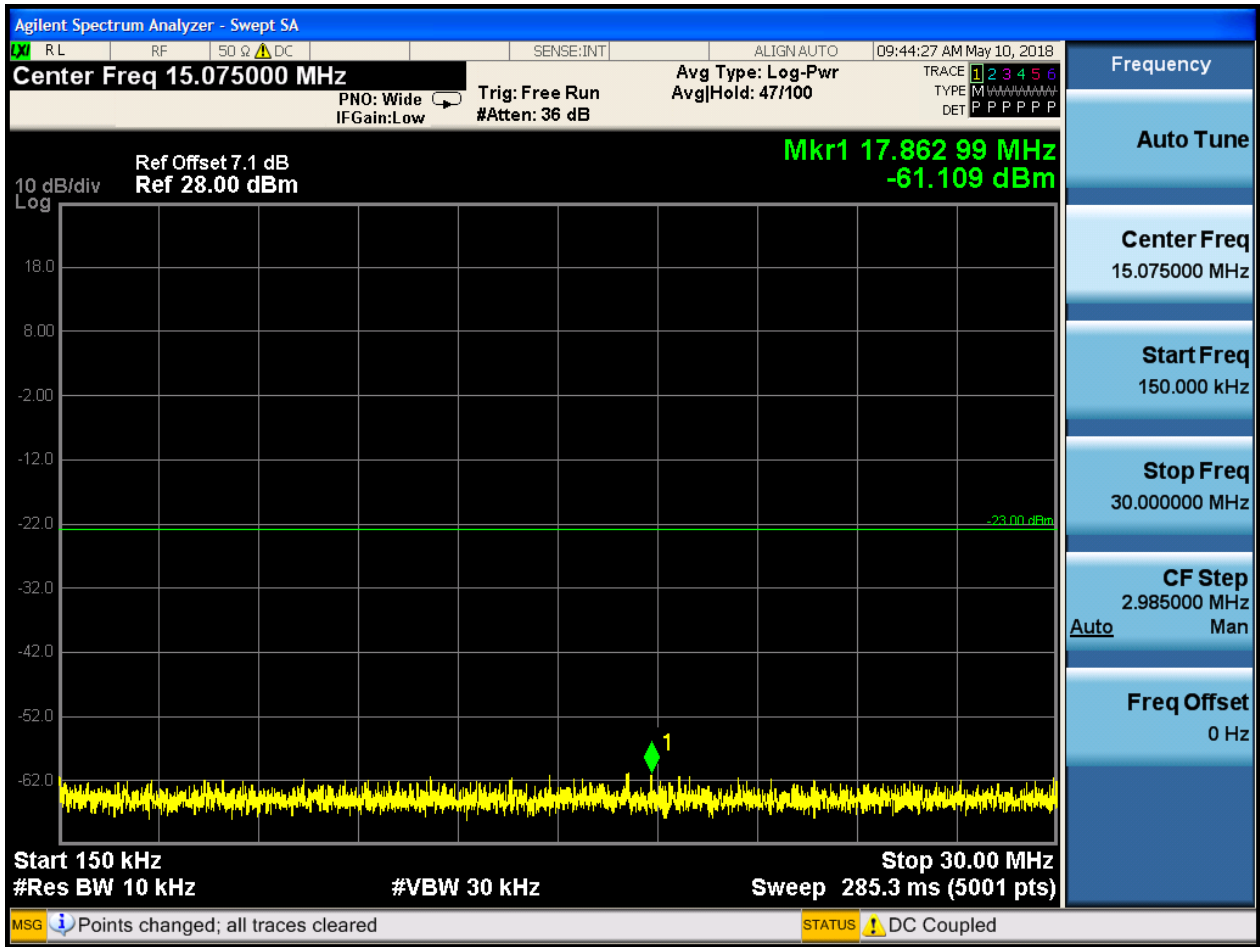
6.1.1.1.3 Test Bandwidth = 5

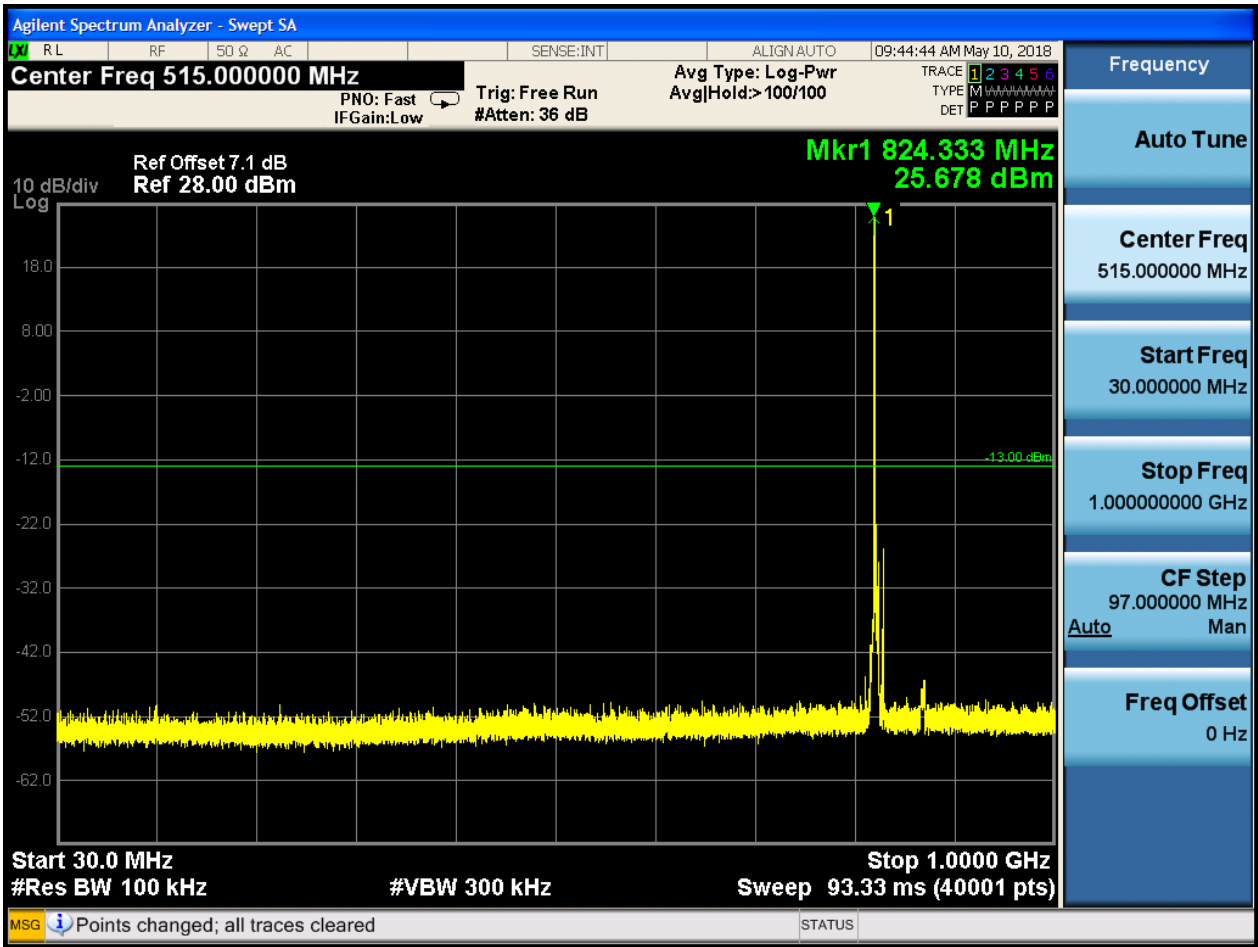
6.1.1.1.3.1 Test Channel = LCH

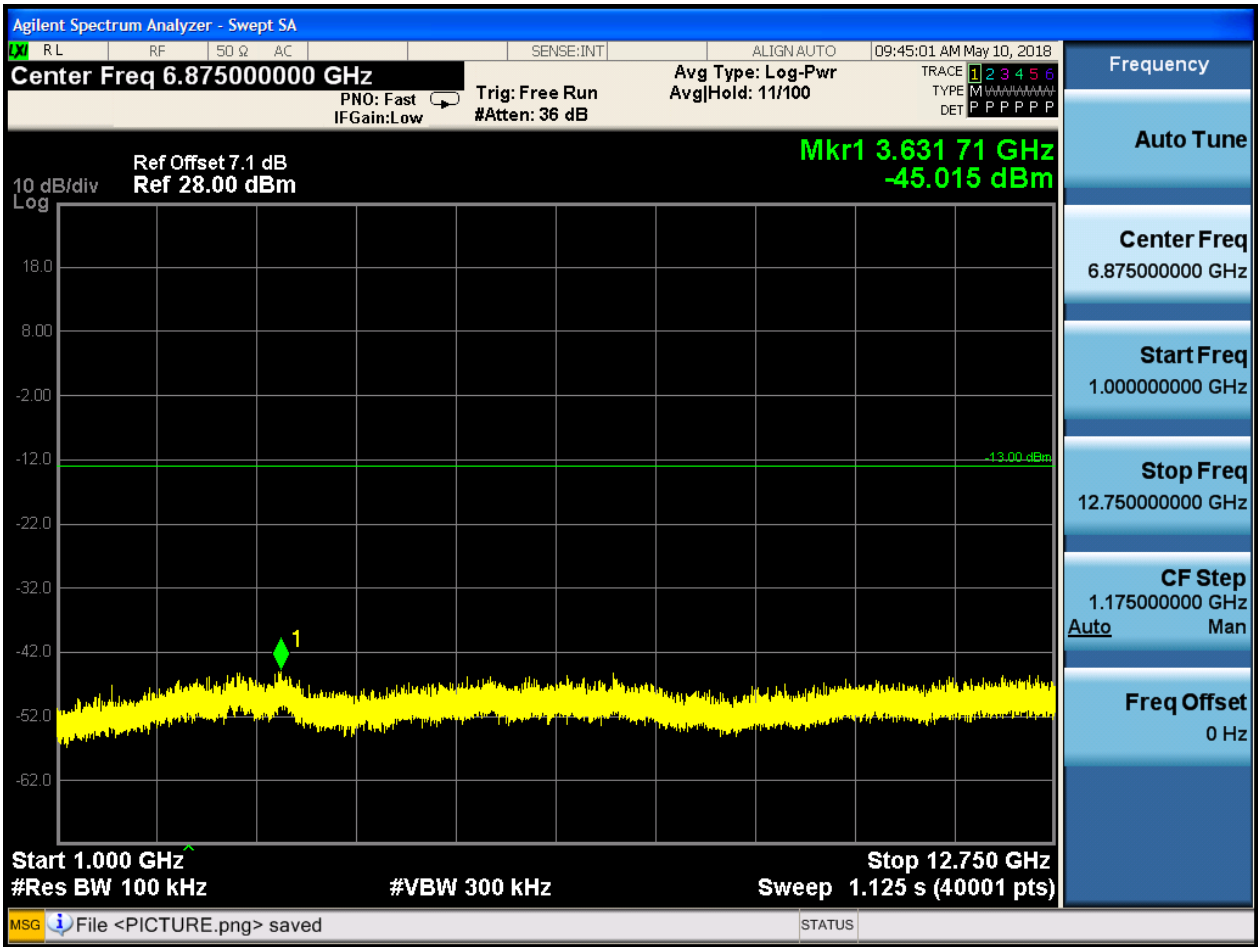
6.1.1.1.3.1.1 Test RB = RB1#0







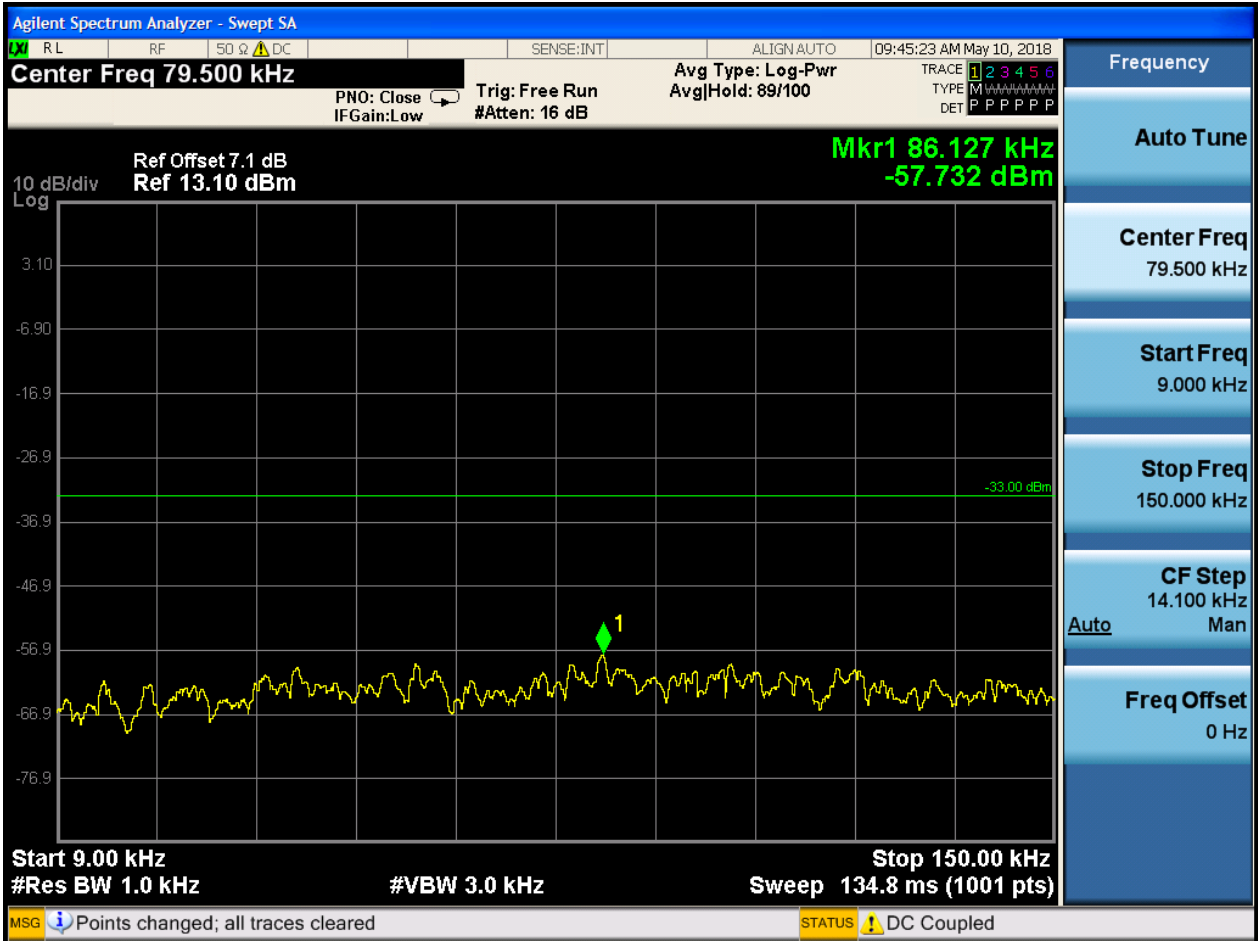


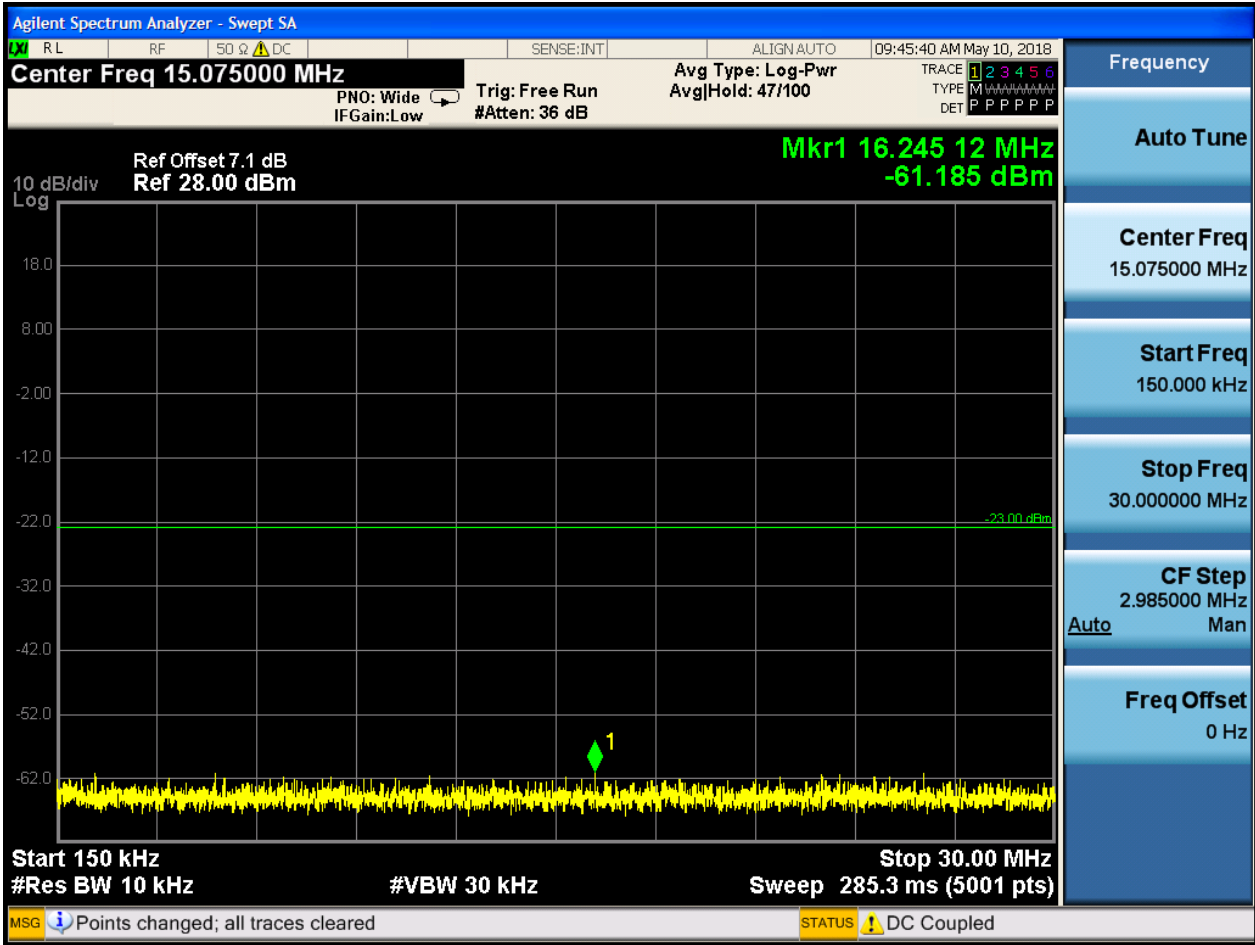


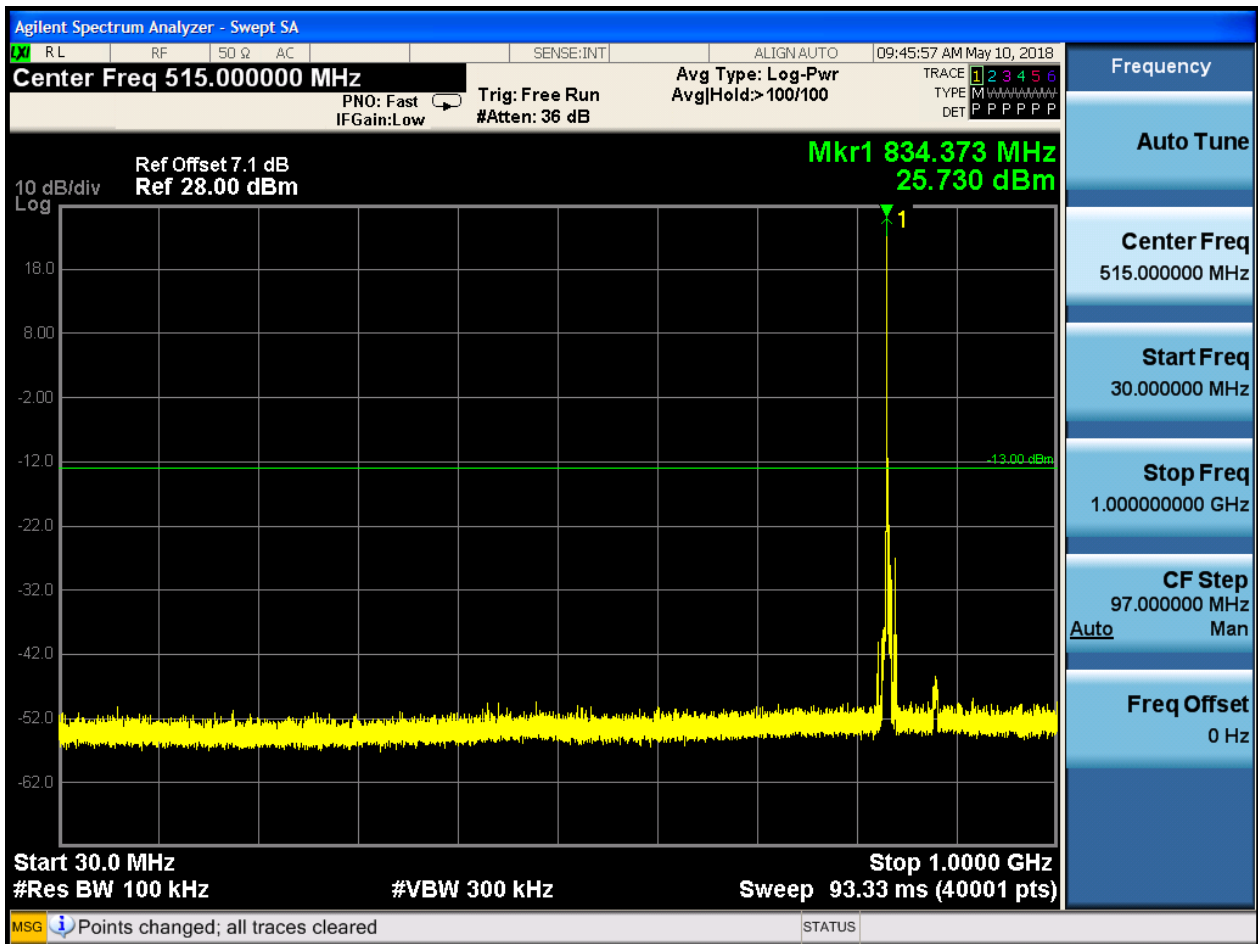


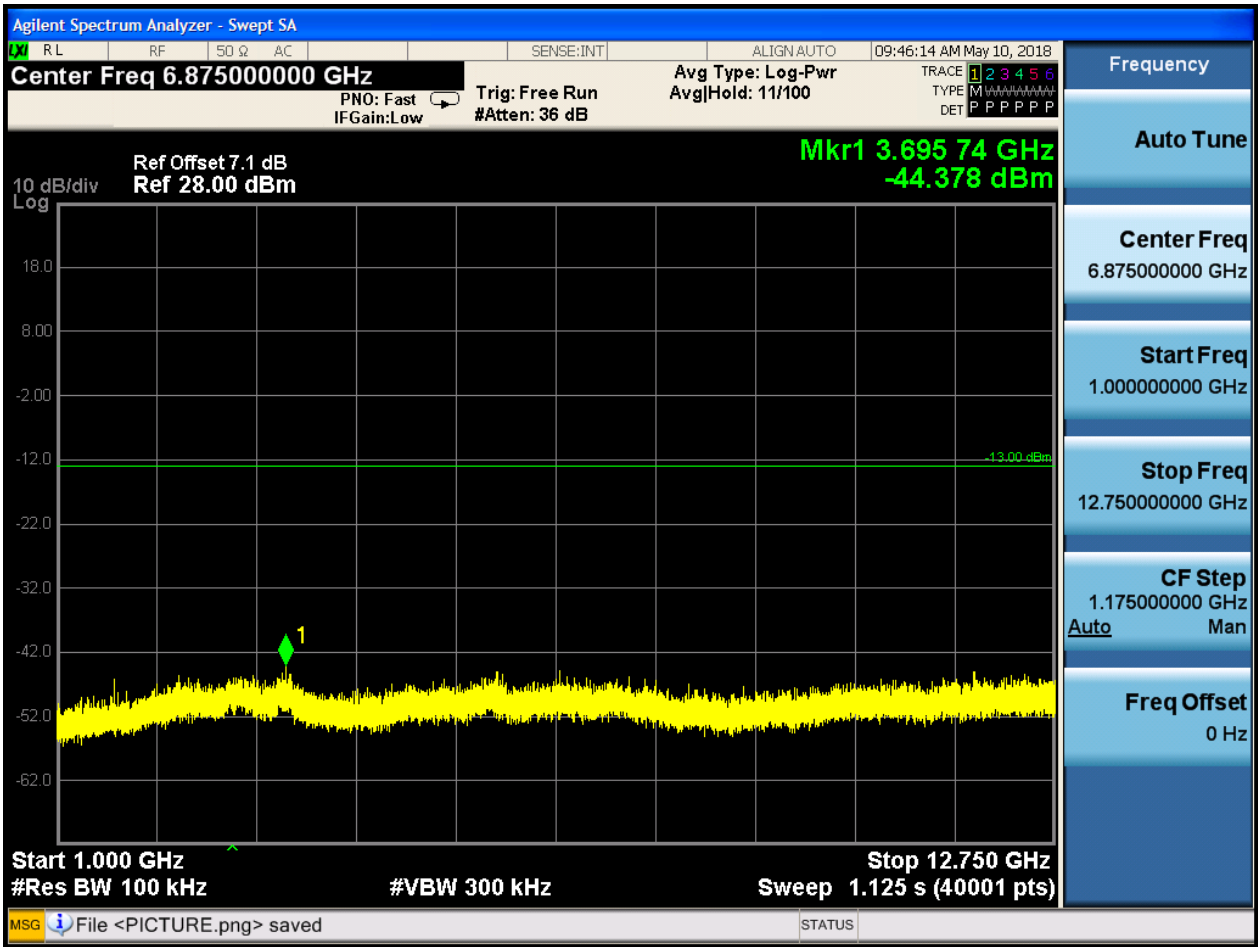
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





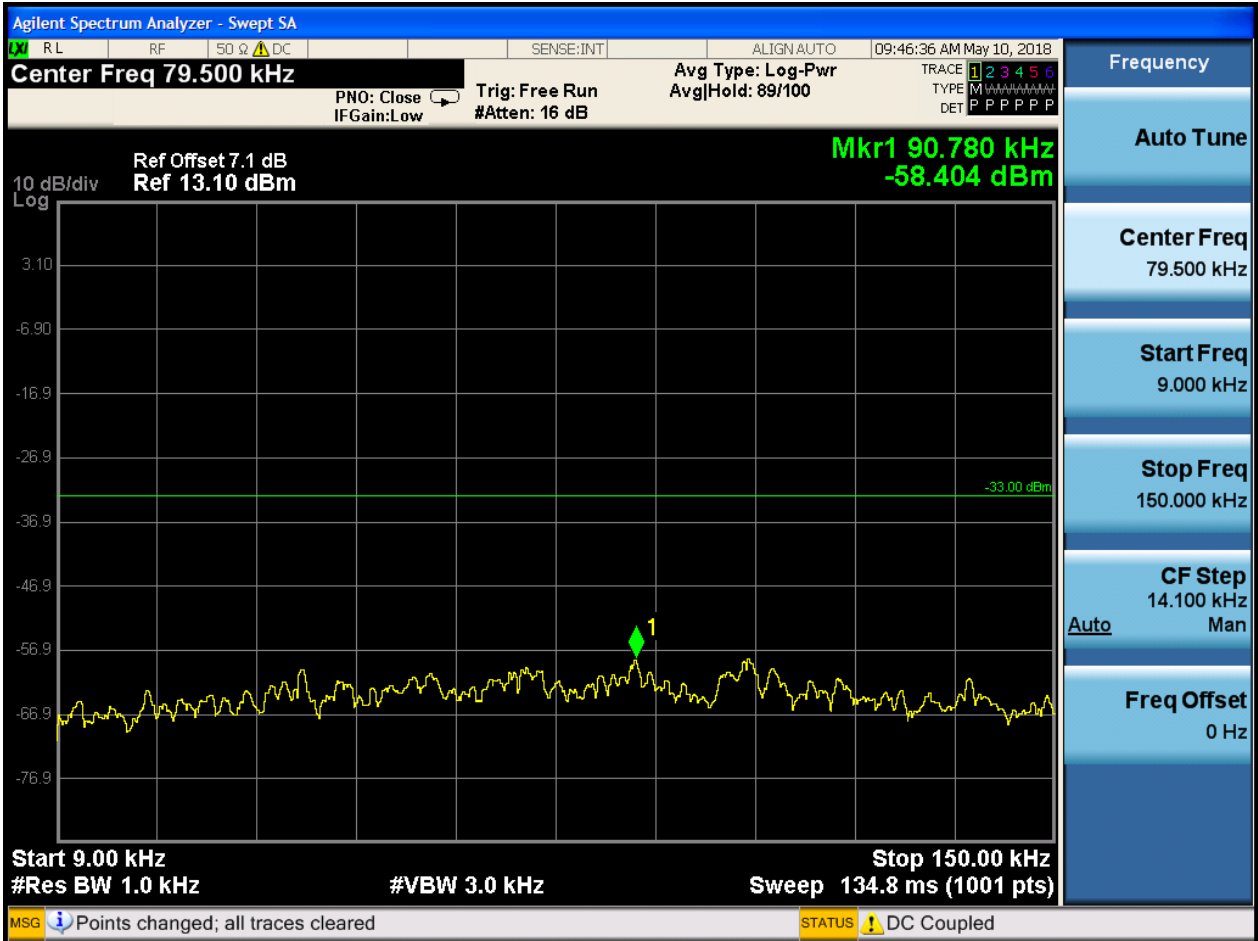




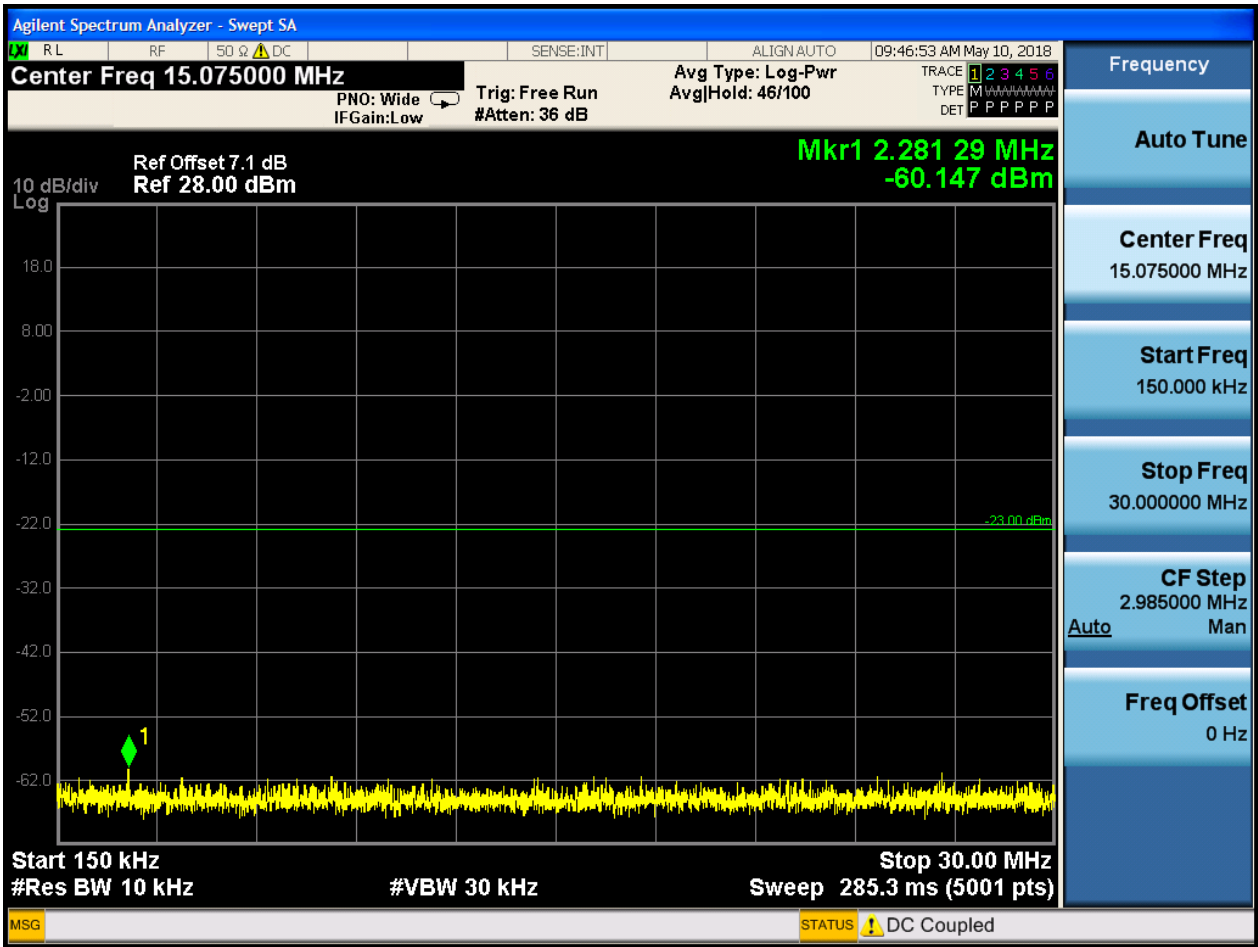


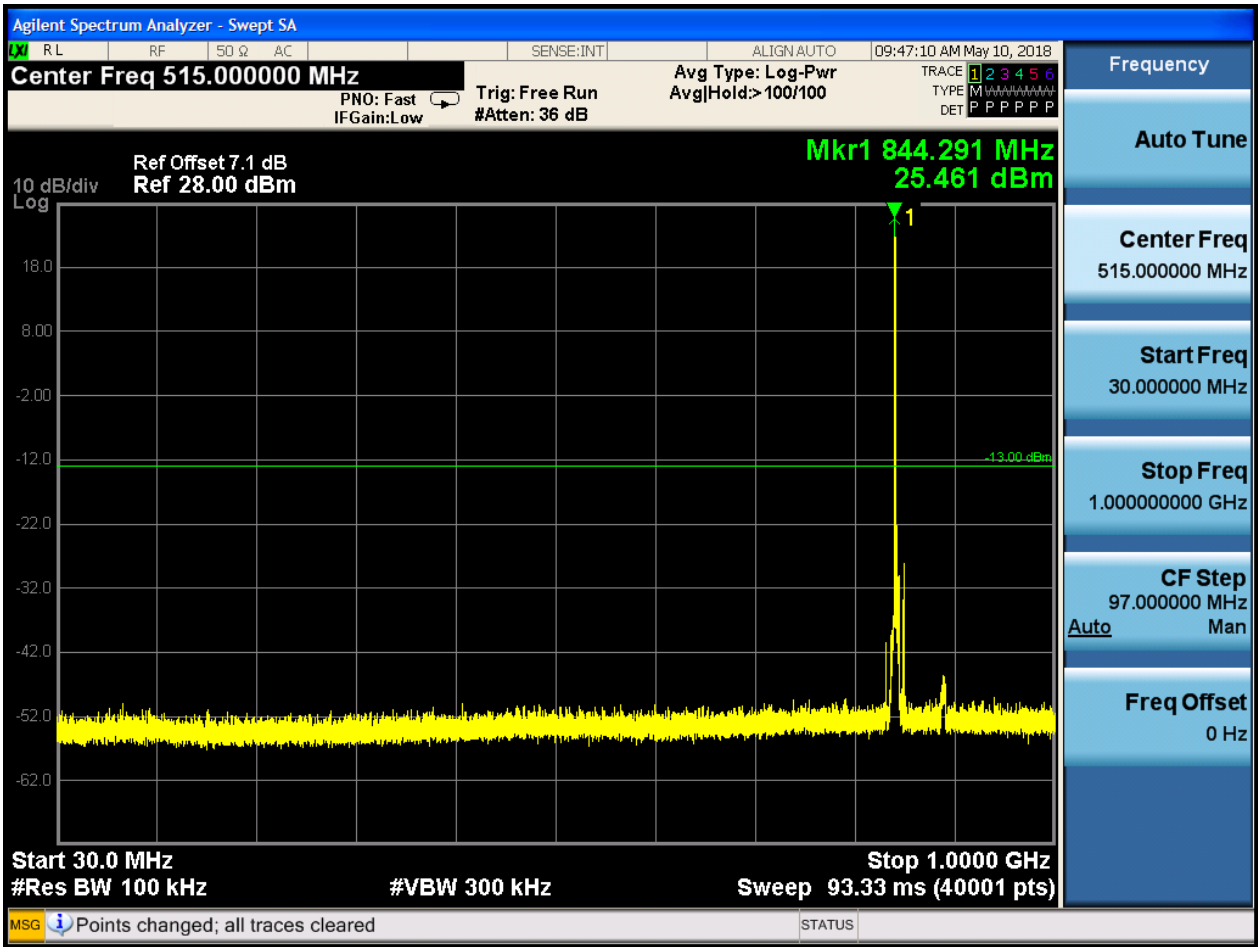
6.1.1.1.3.3 Test Channel = HCH

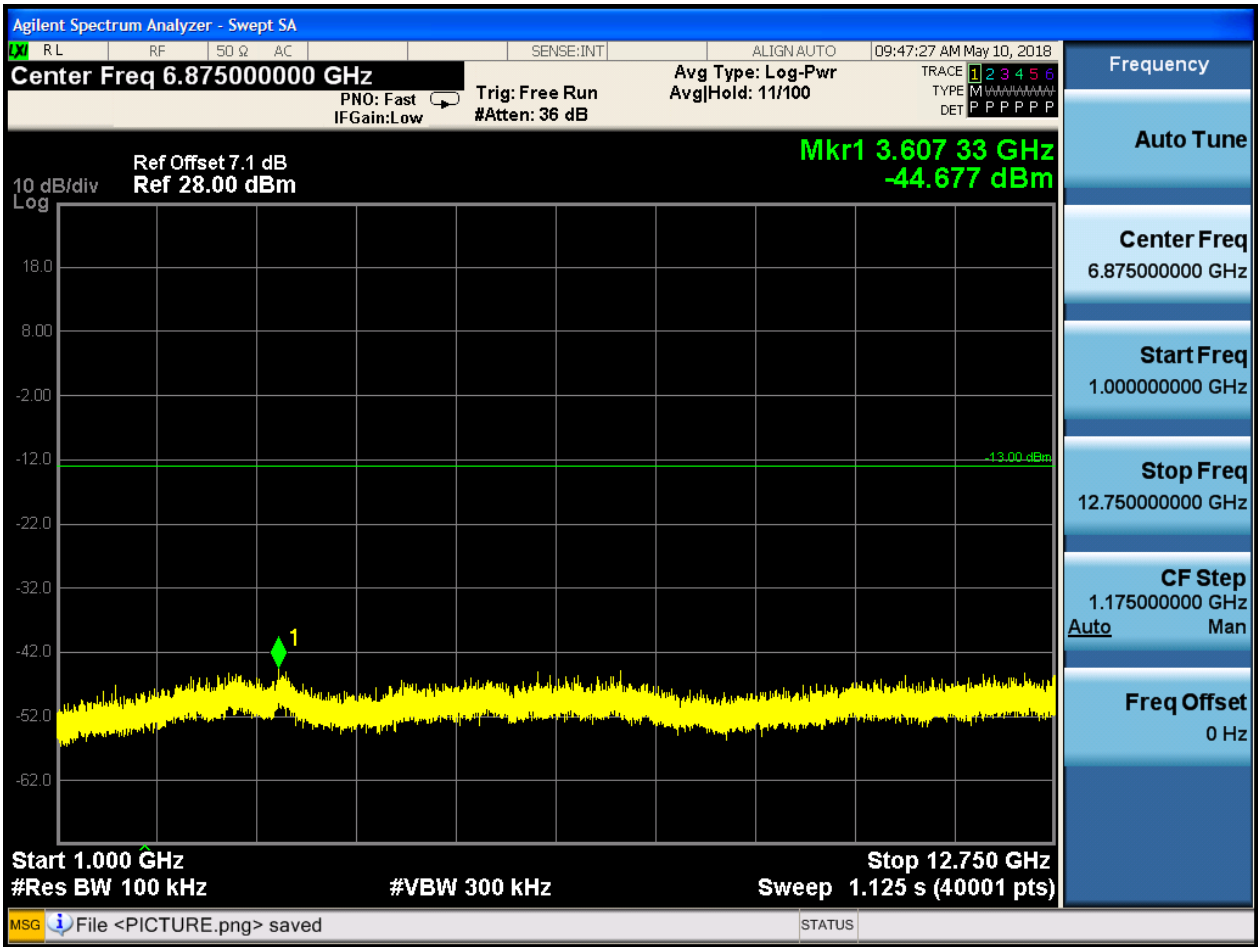
6.1.1.1.3.3.1 Test RB = RB1#0









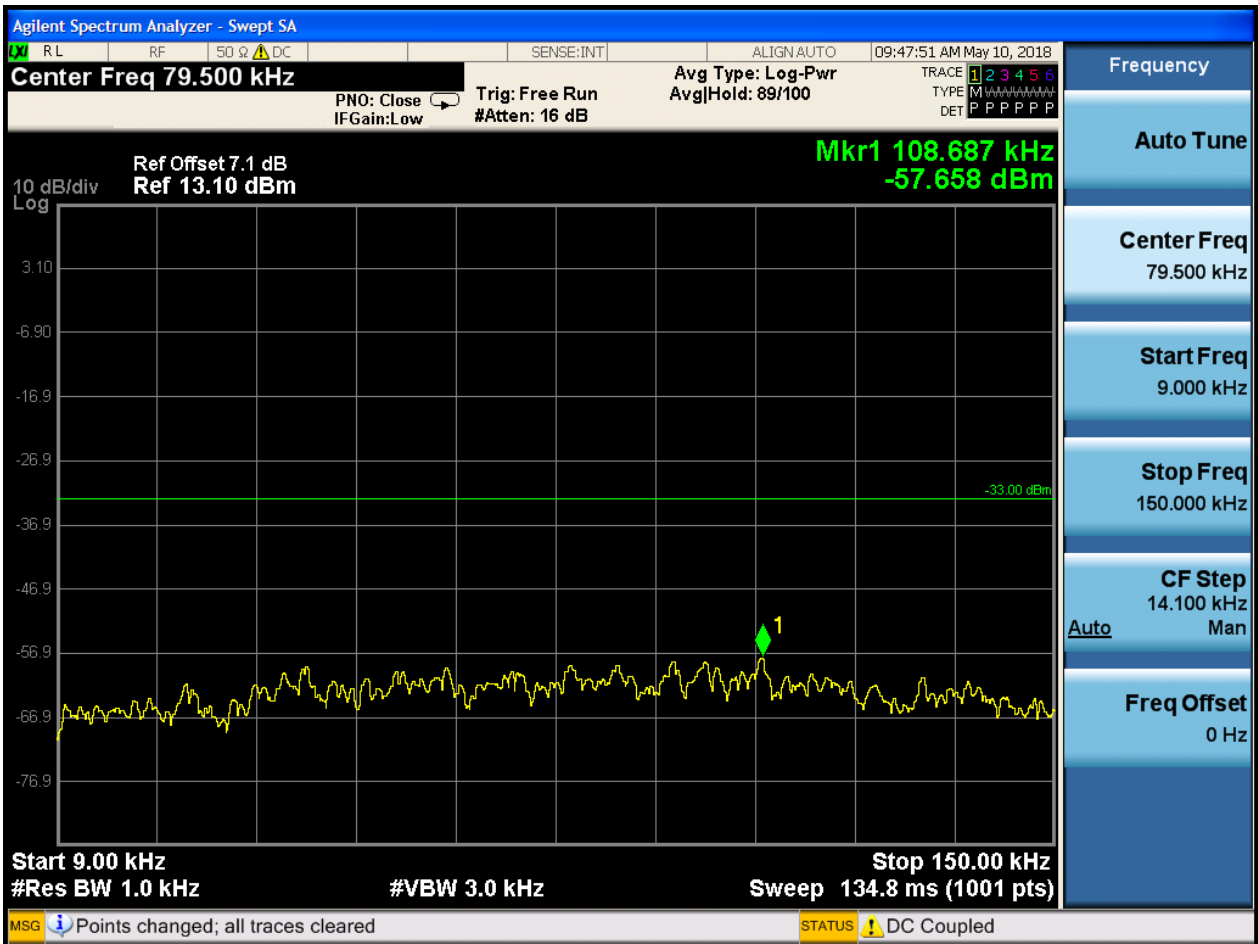


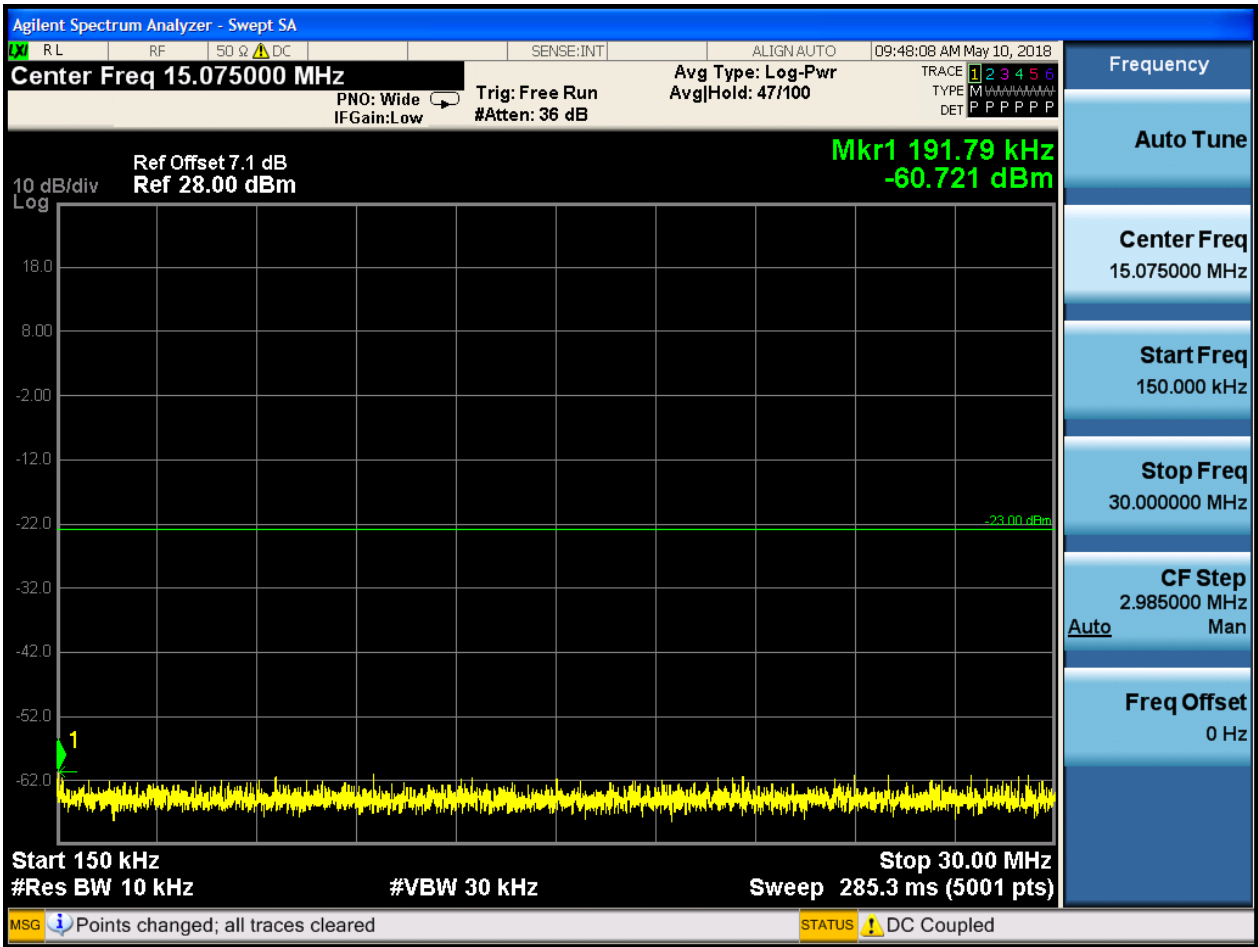


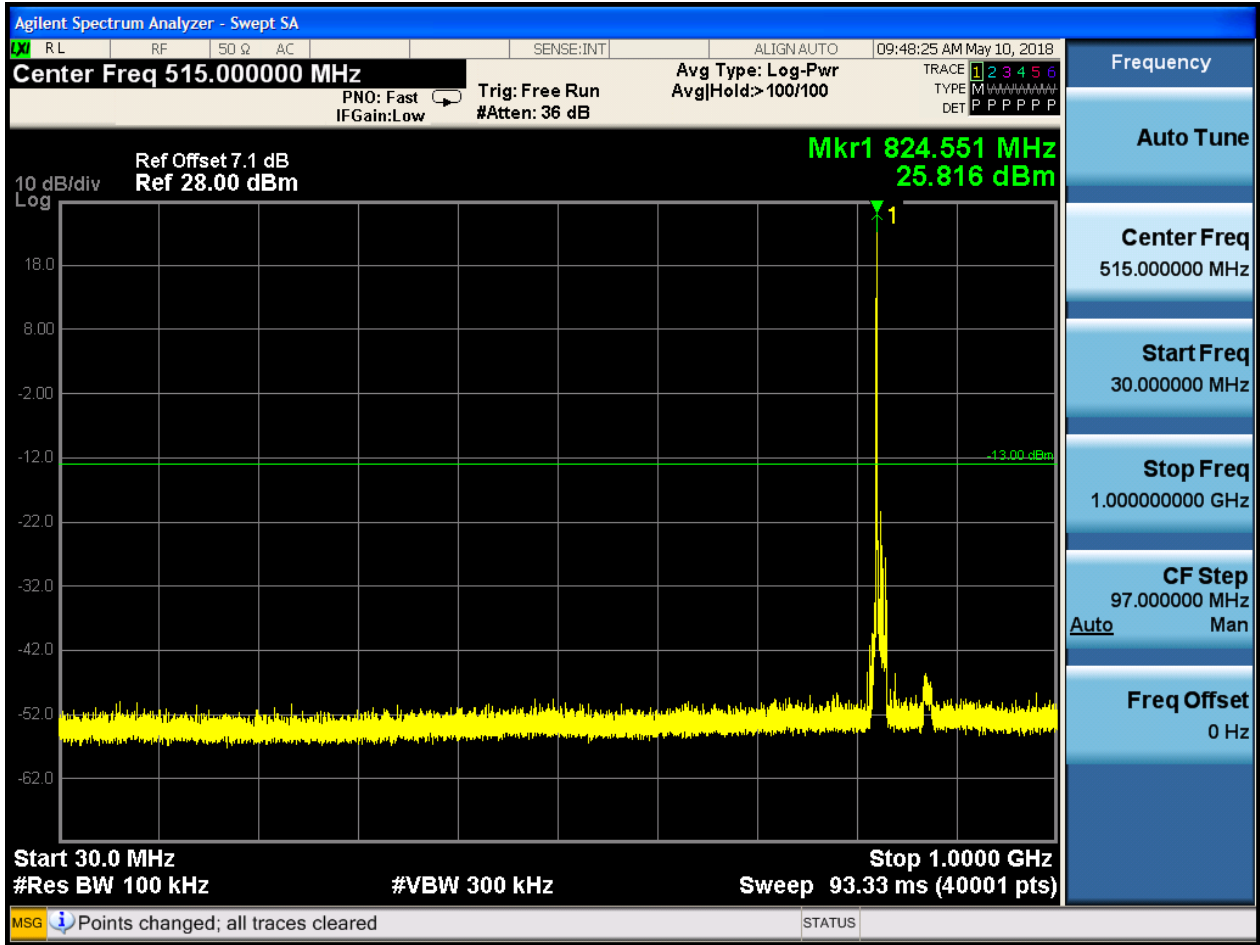
6.1.1.1.4 Test Bandwidth = 10

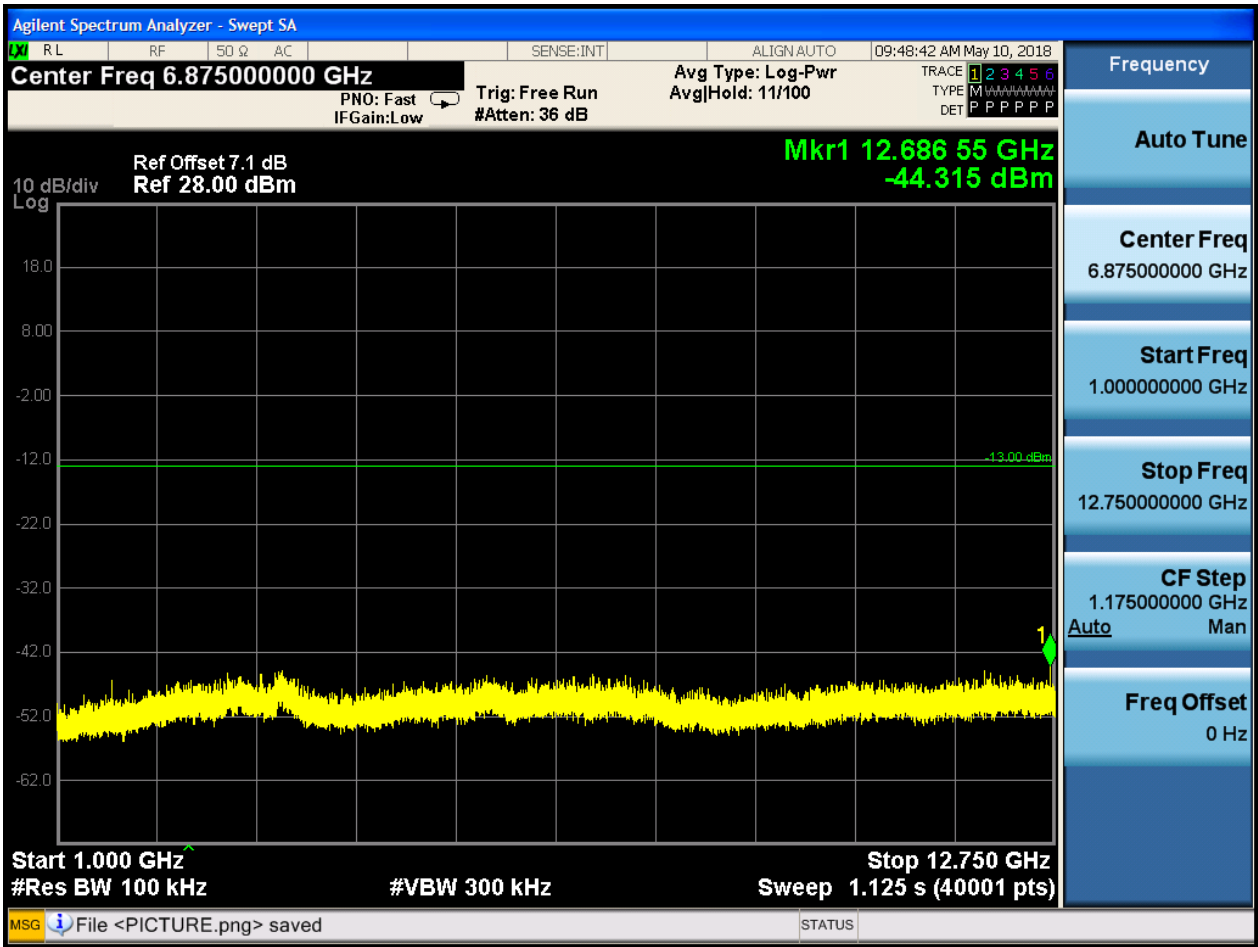
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





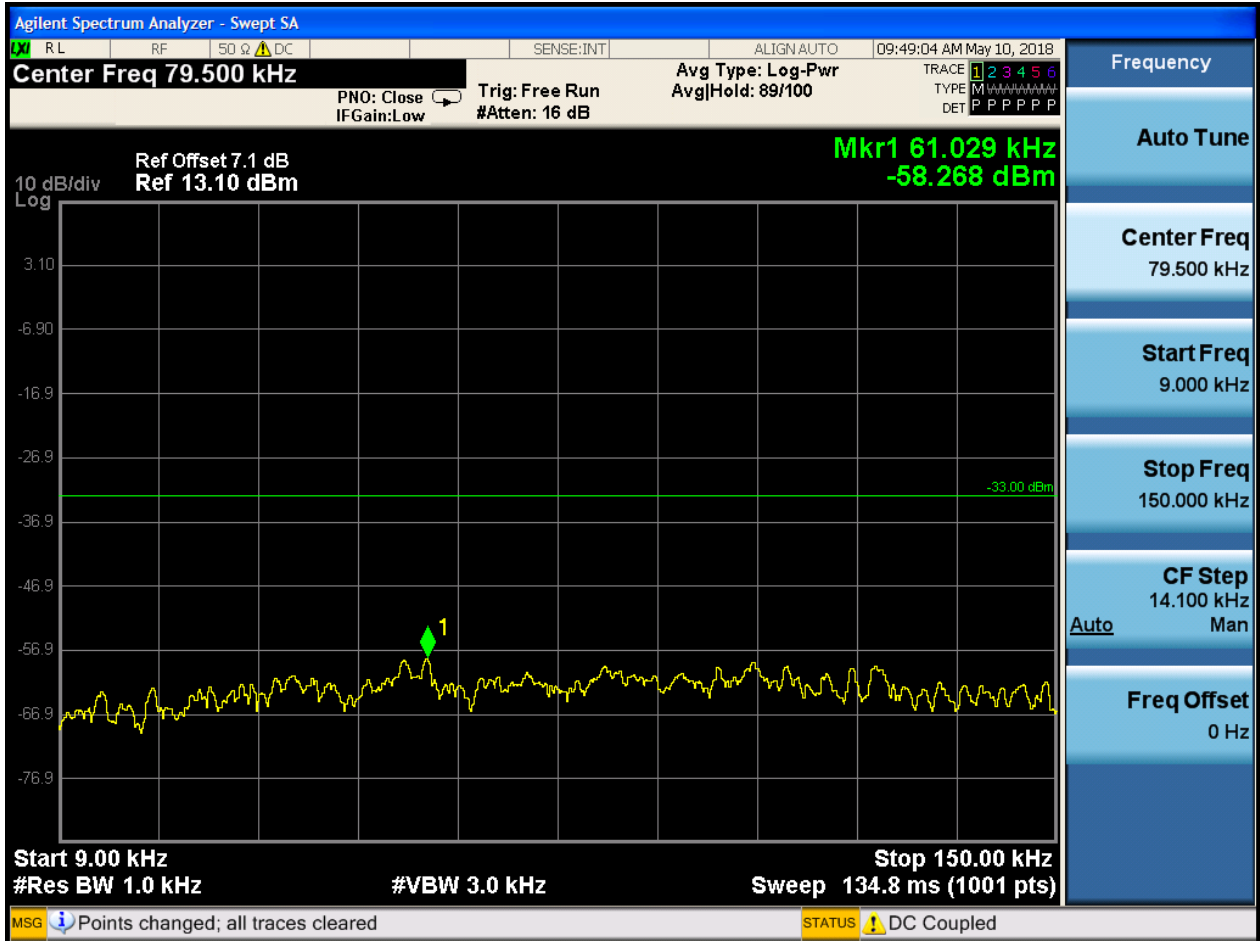




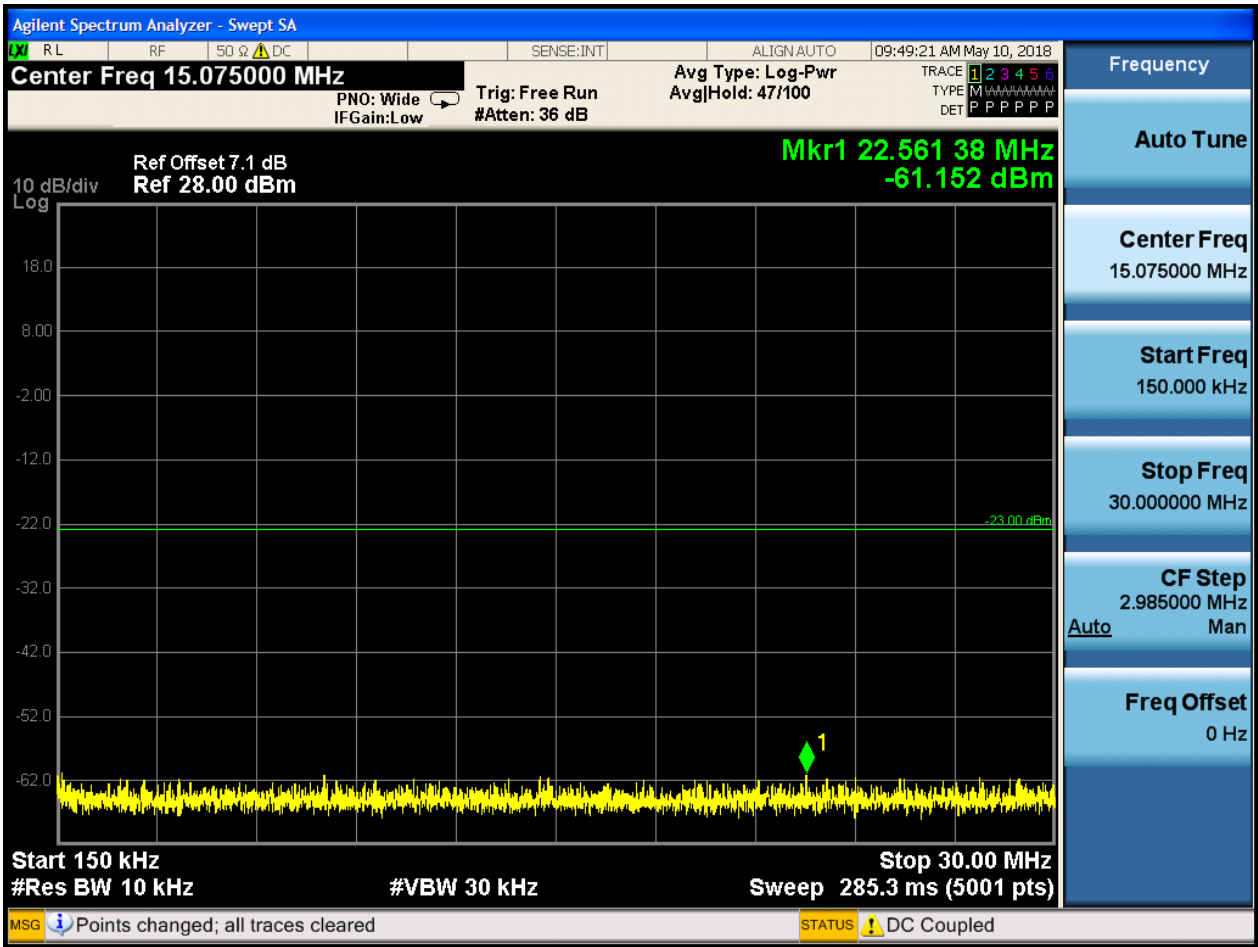


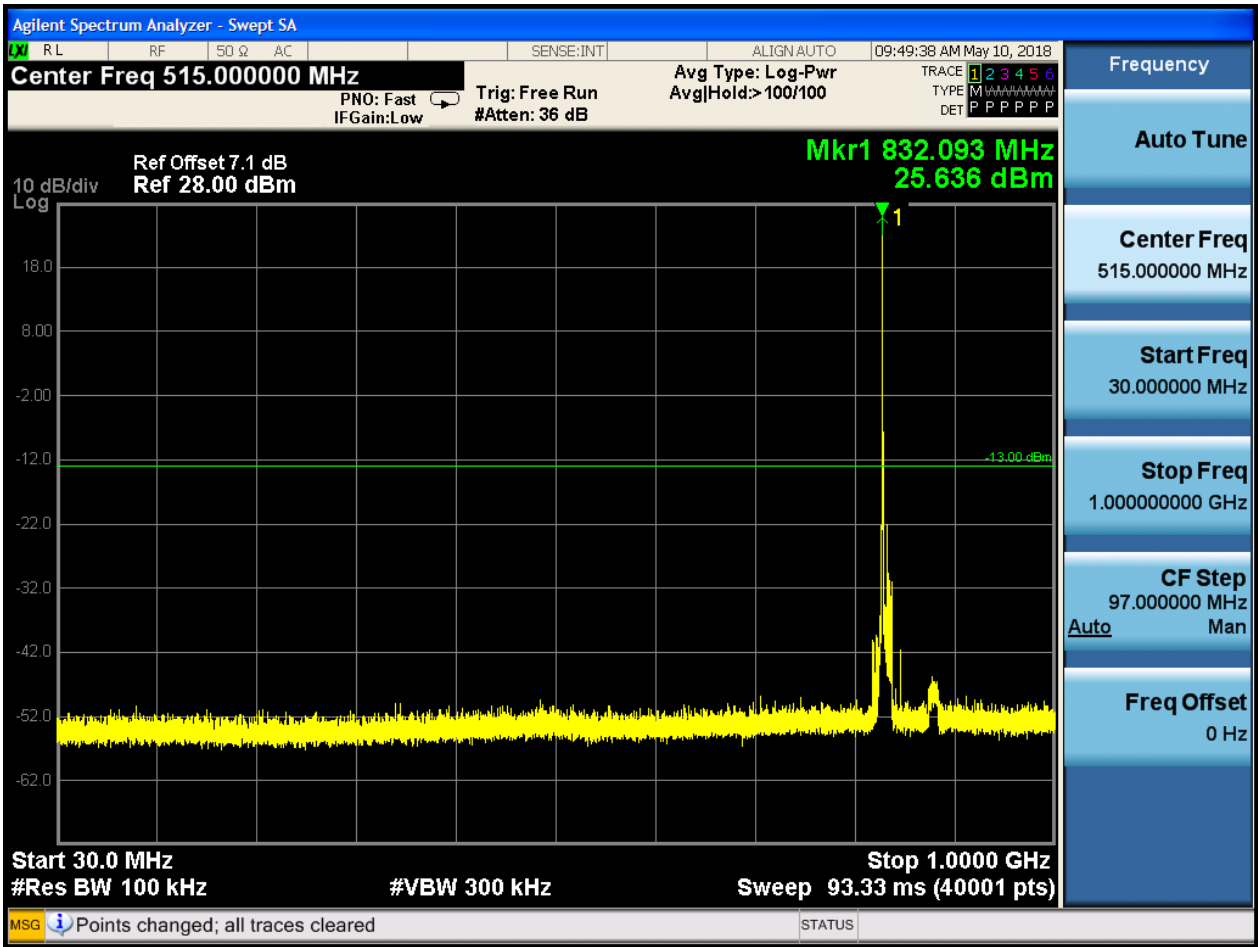
6.1.1.1.4.2 Test Channel = MCH

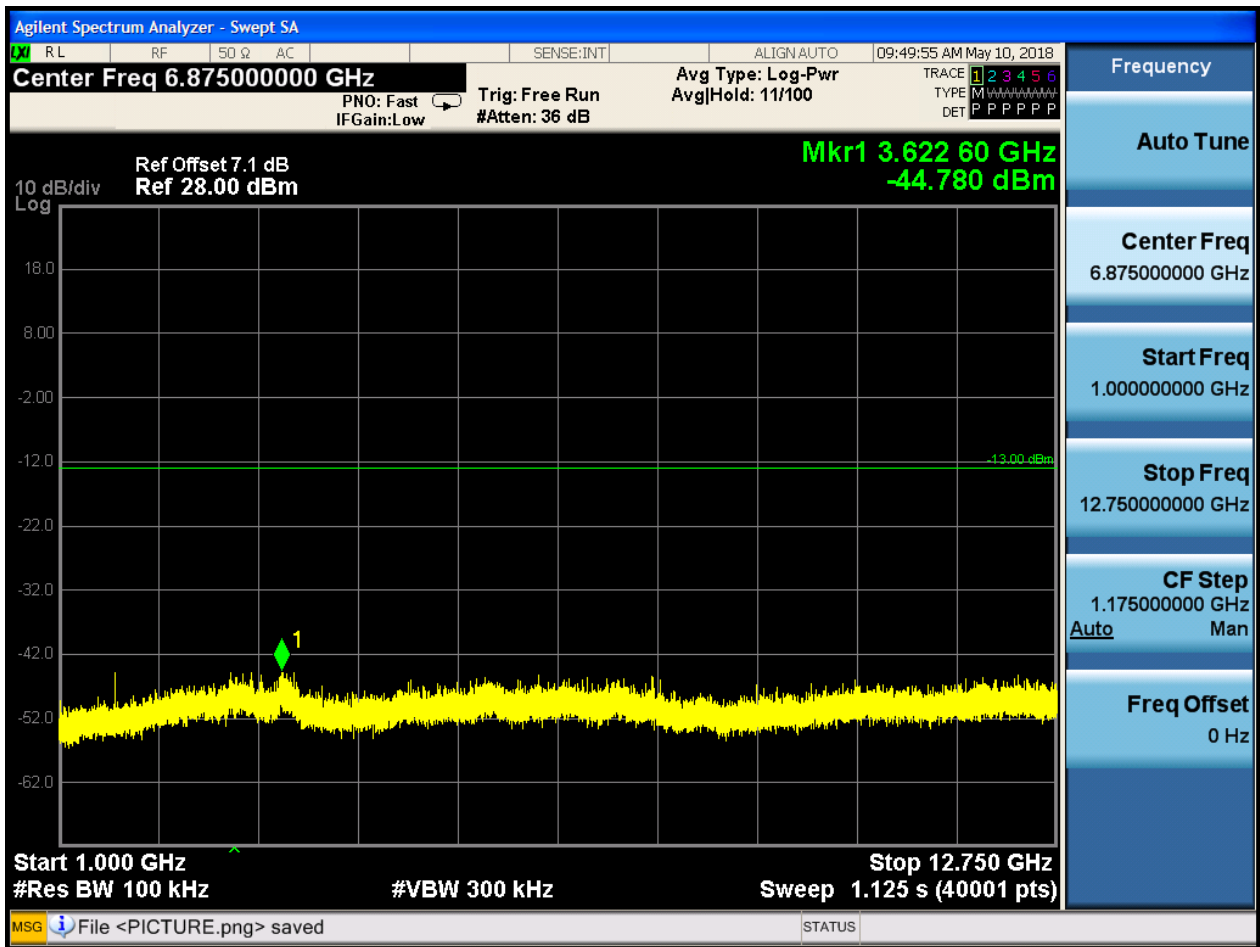
6.1.1.1.4.2.1 Test RB = RB1#0







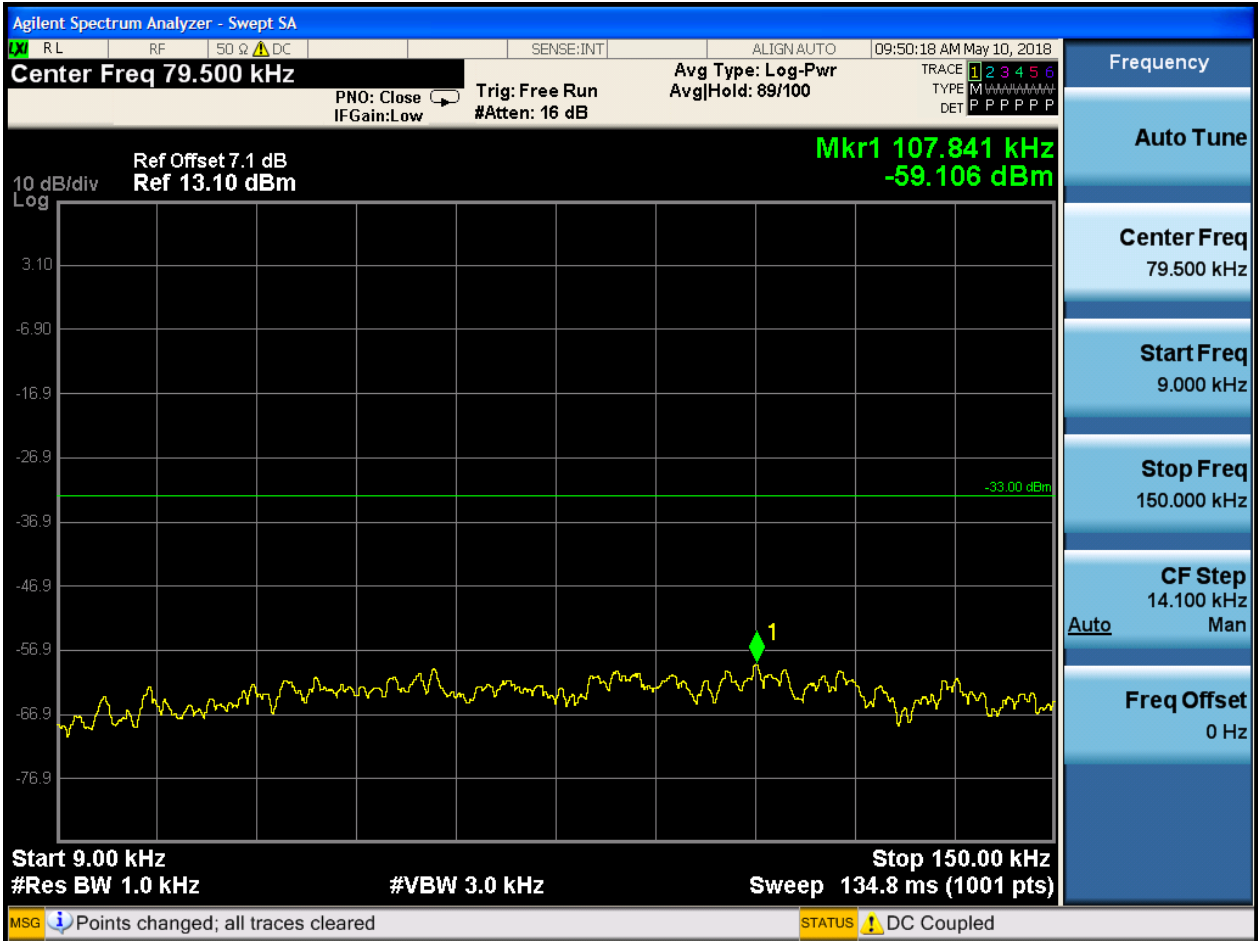


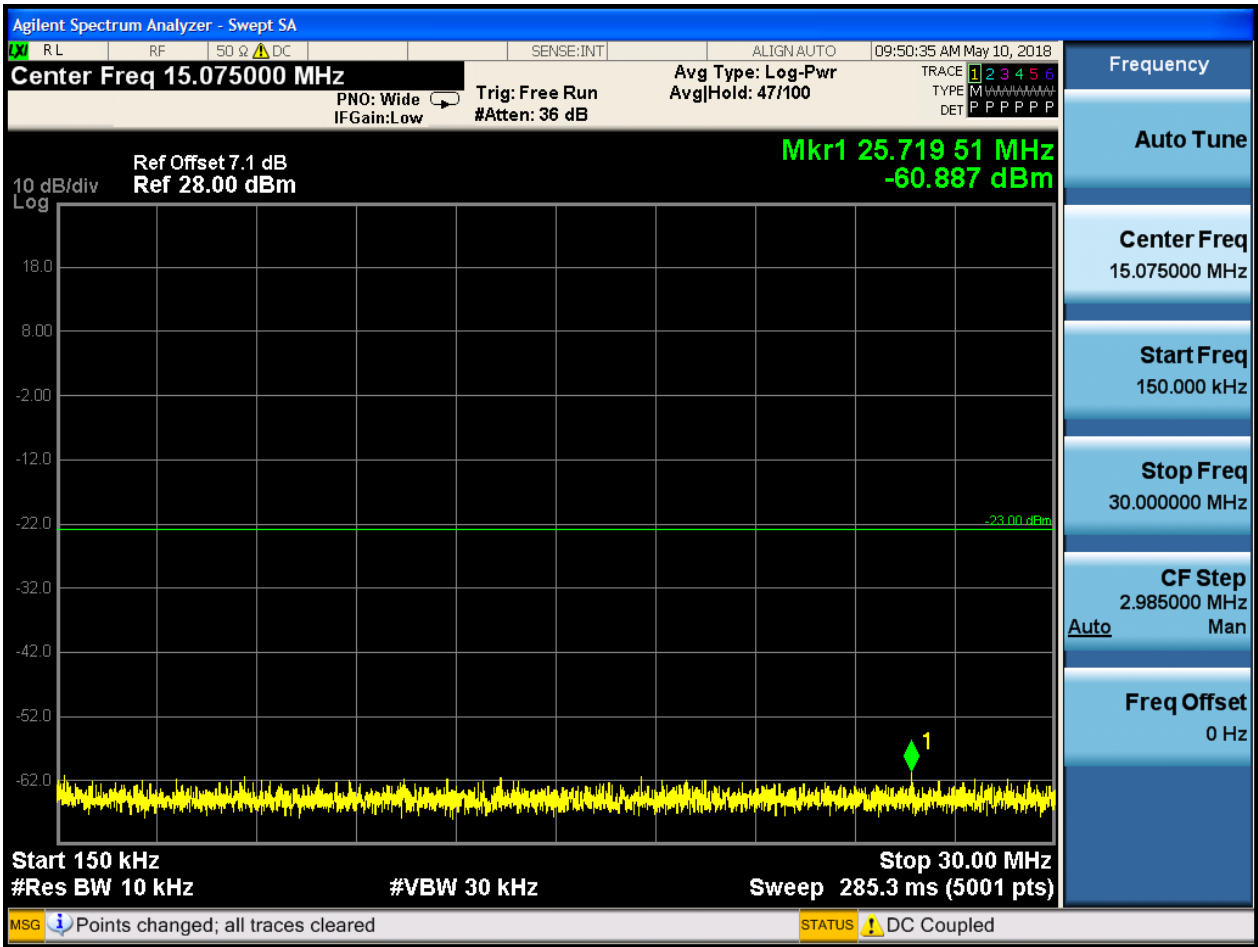


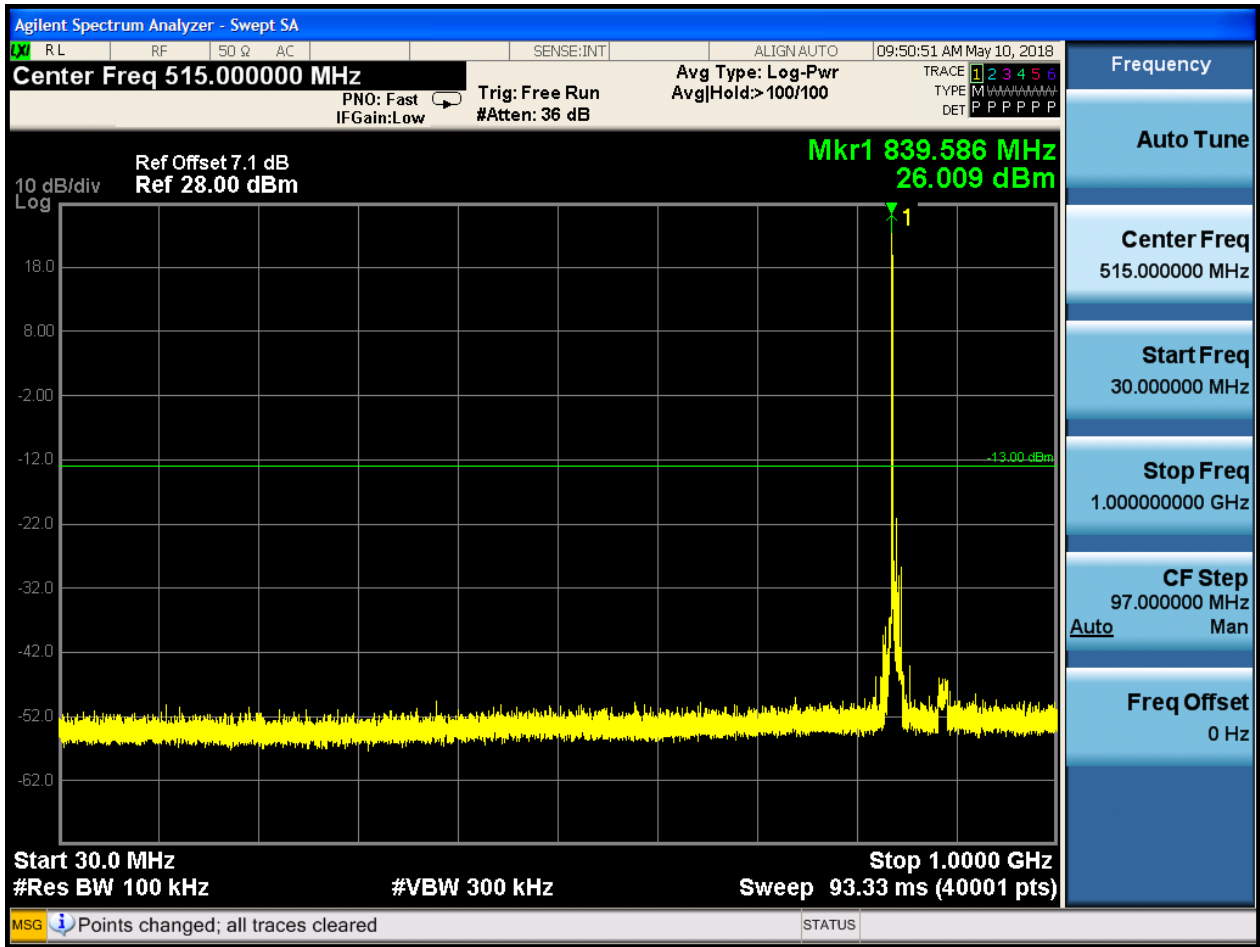


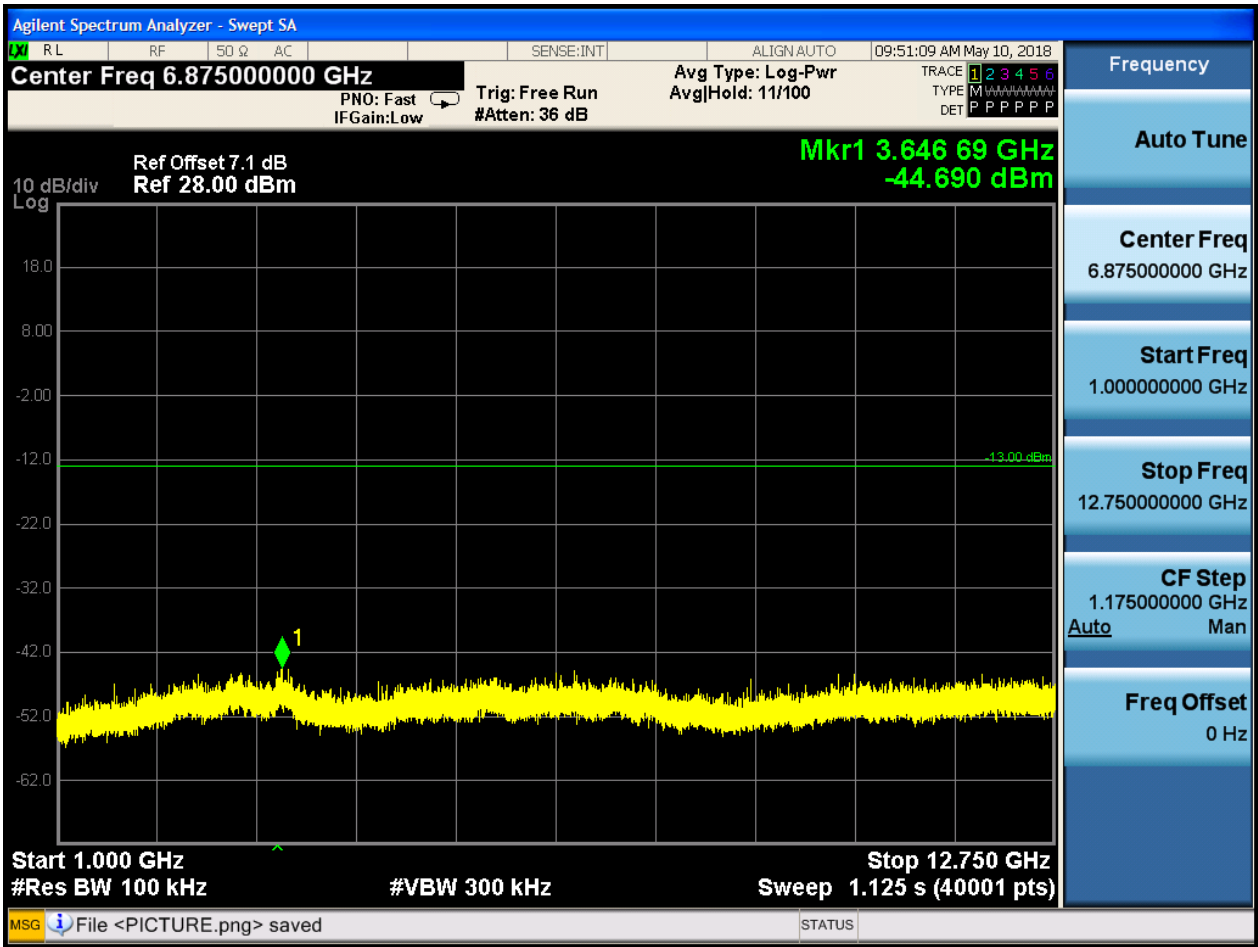
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









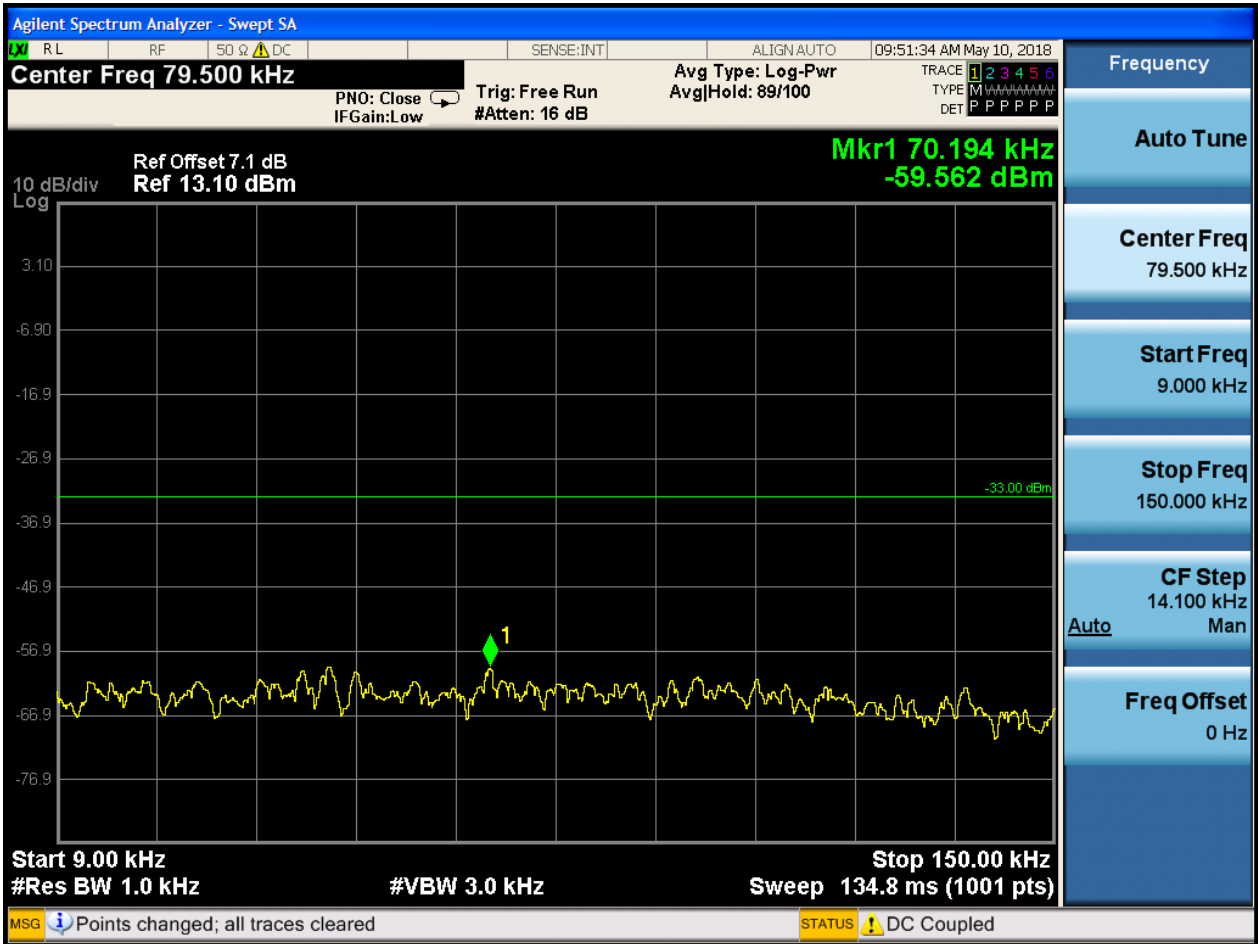


6.1.1.2 Test Mode = LTE/TM2

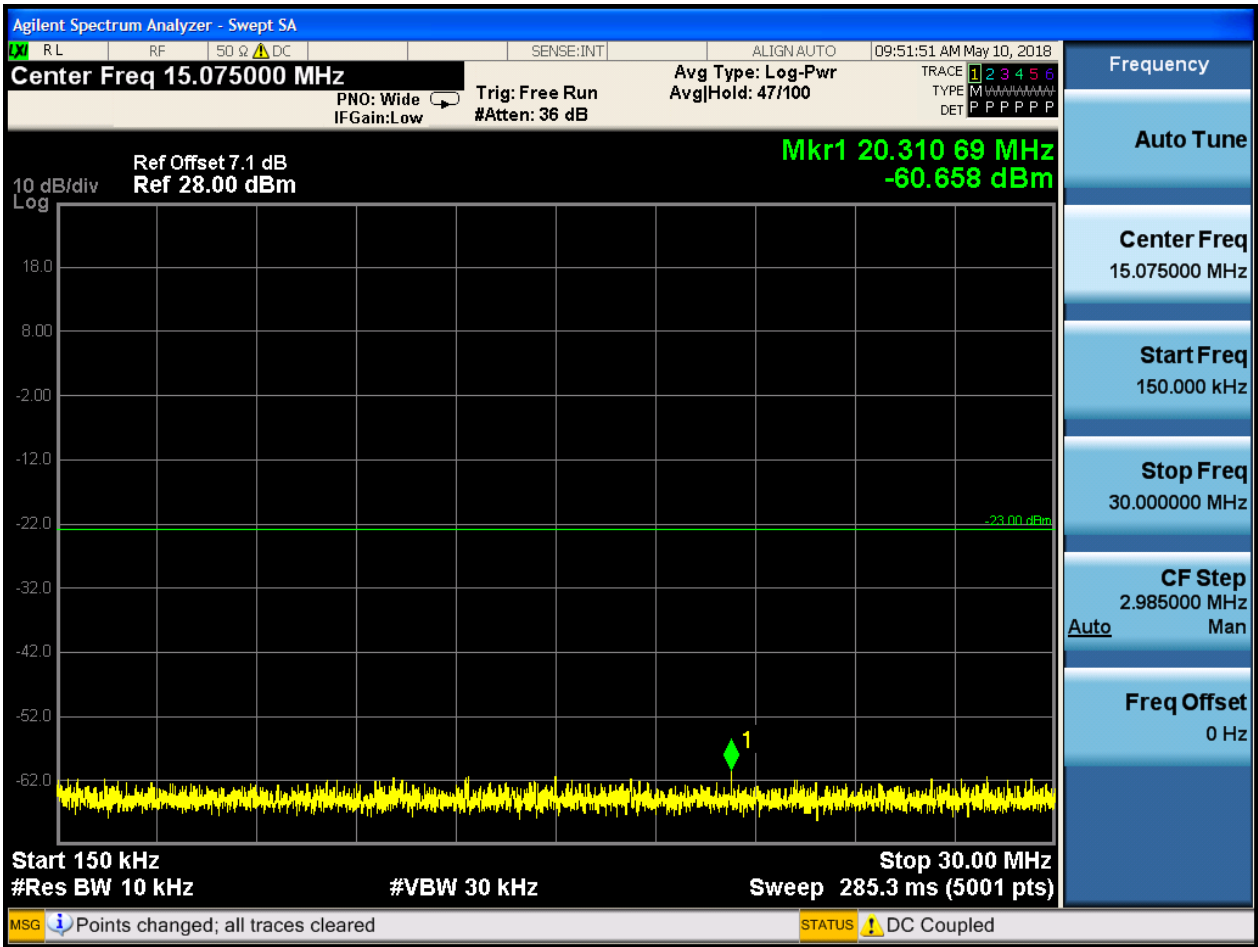
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

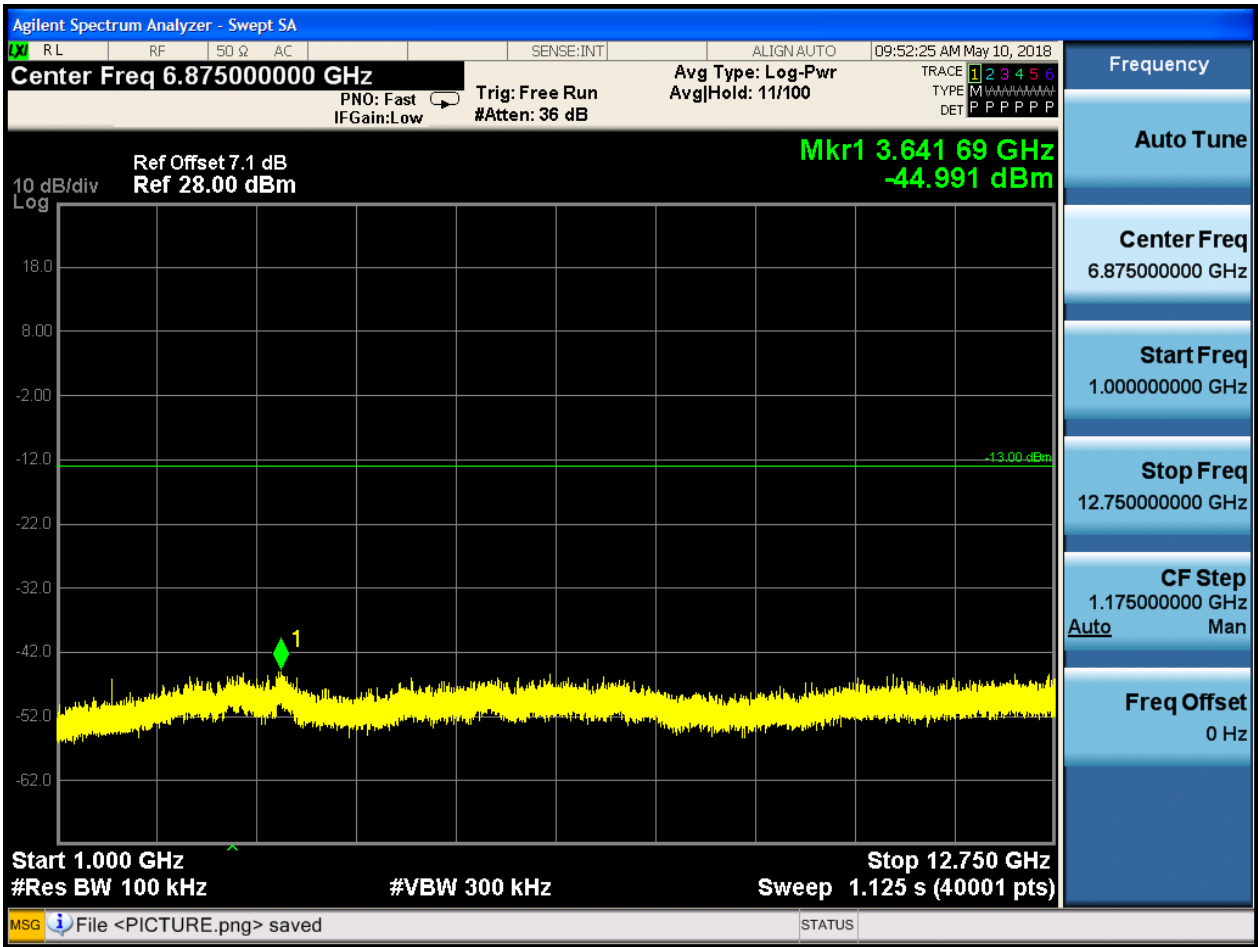
6.1.1.2.1.1.1 Test RB = RB1#0







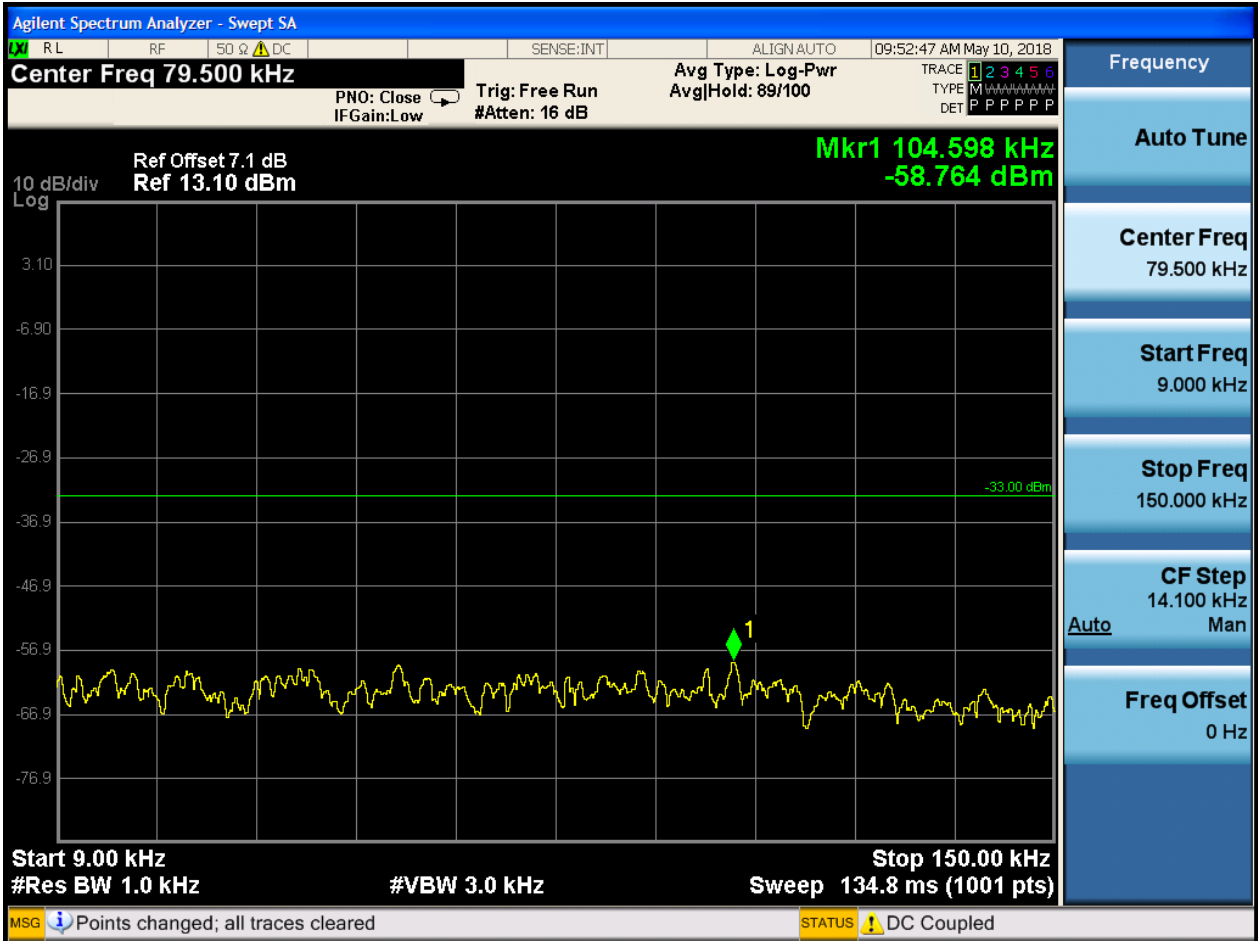


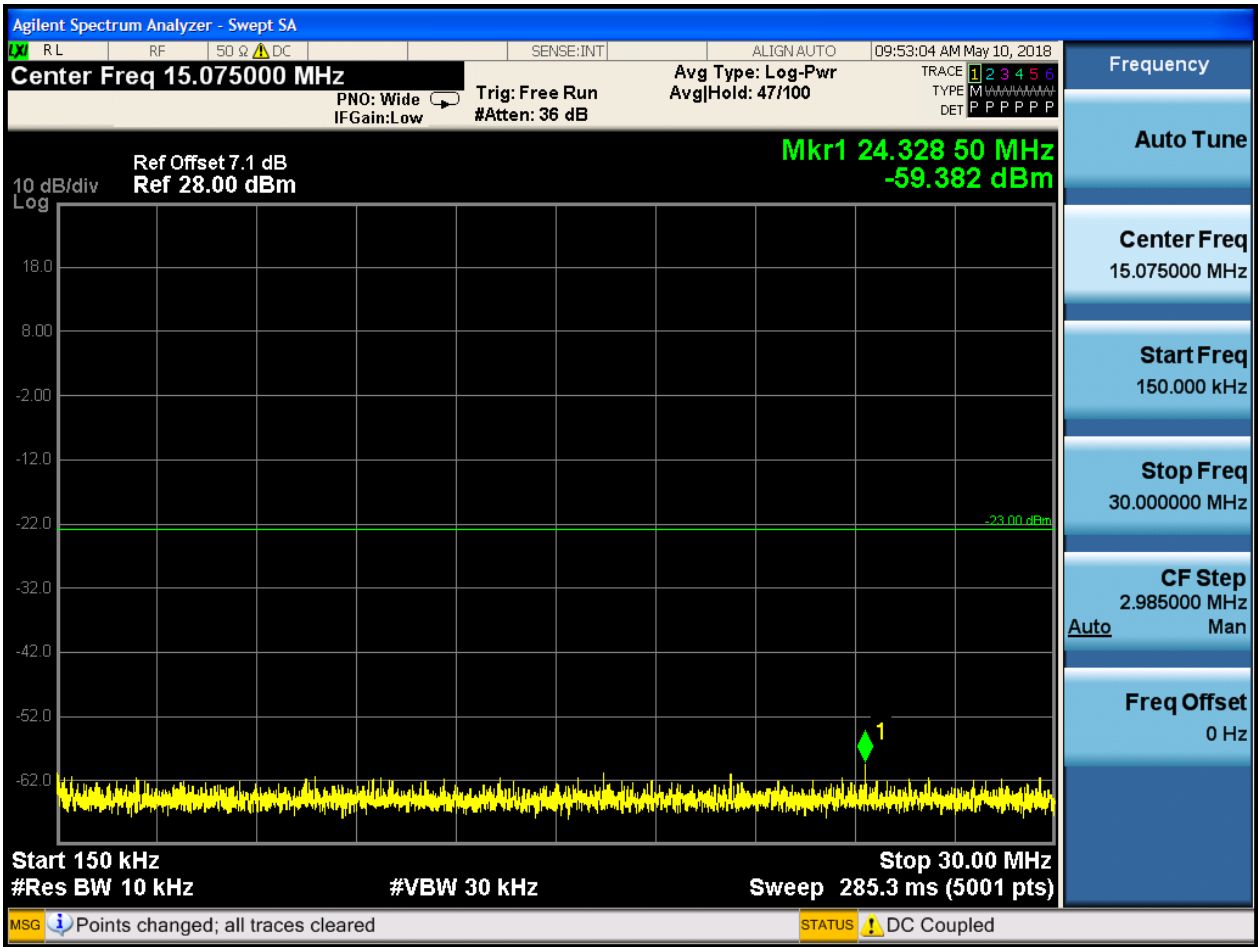


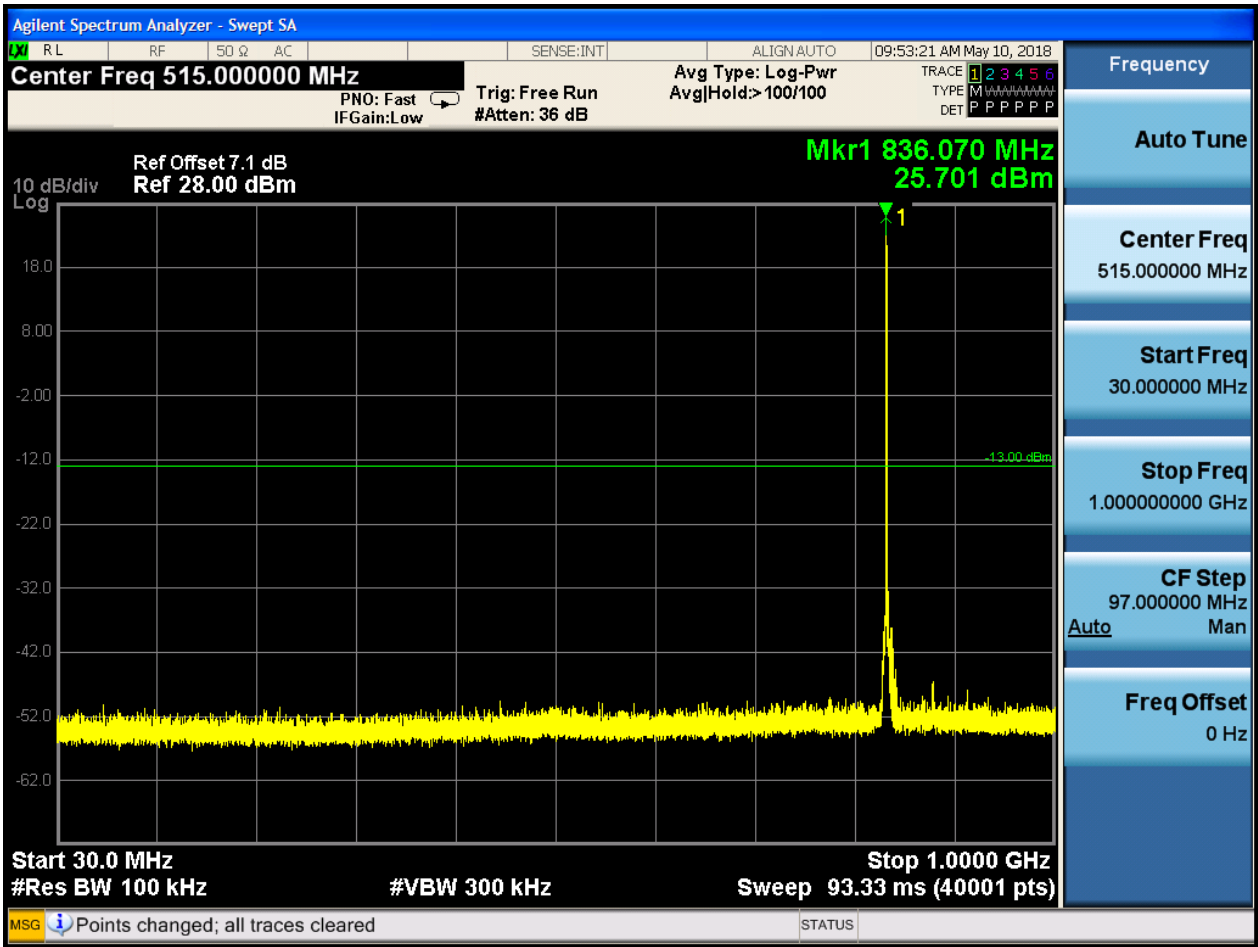


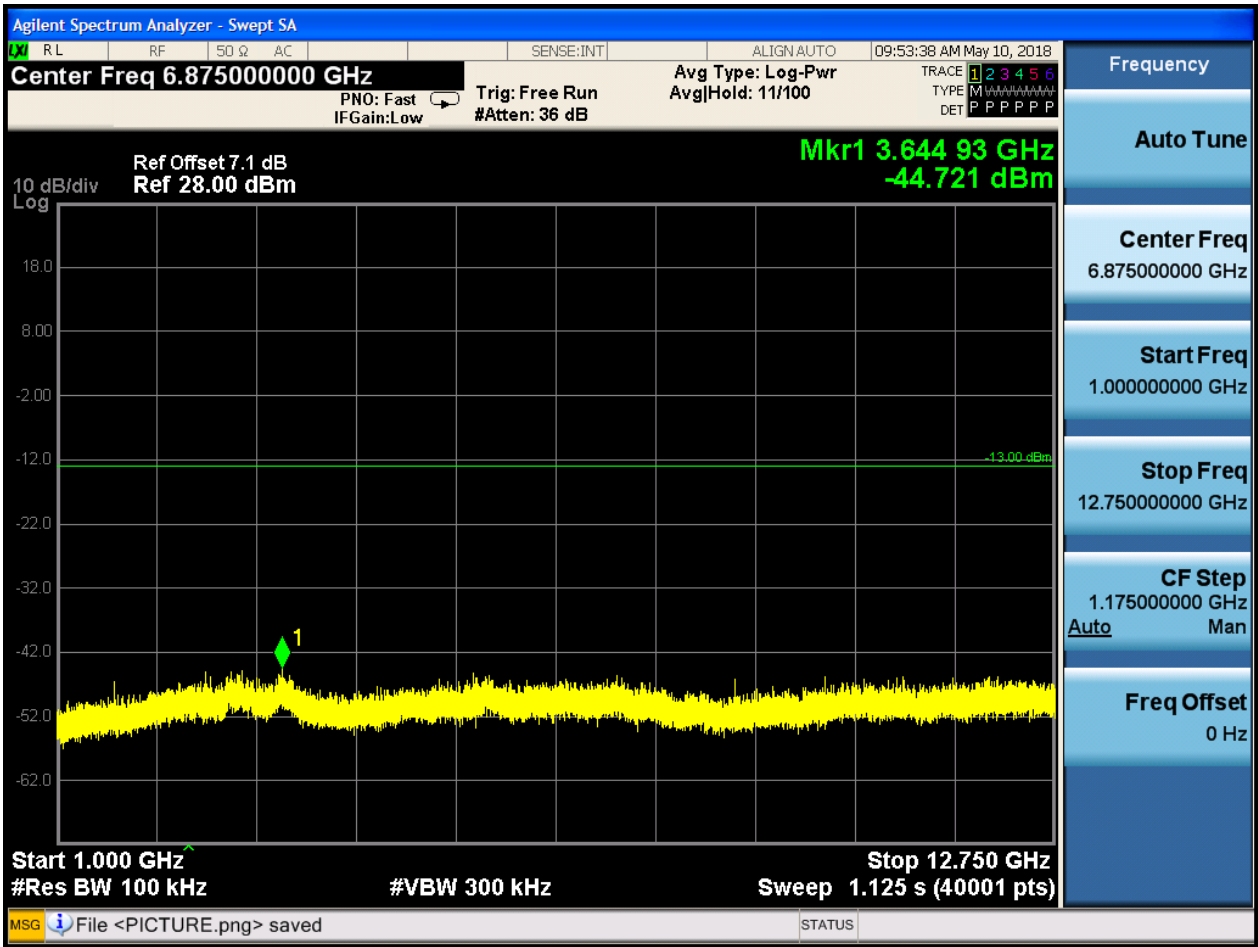
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





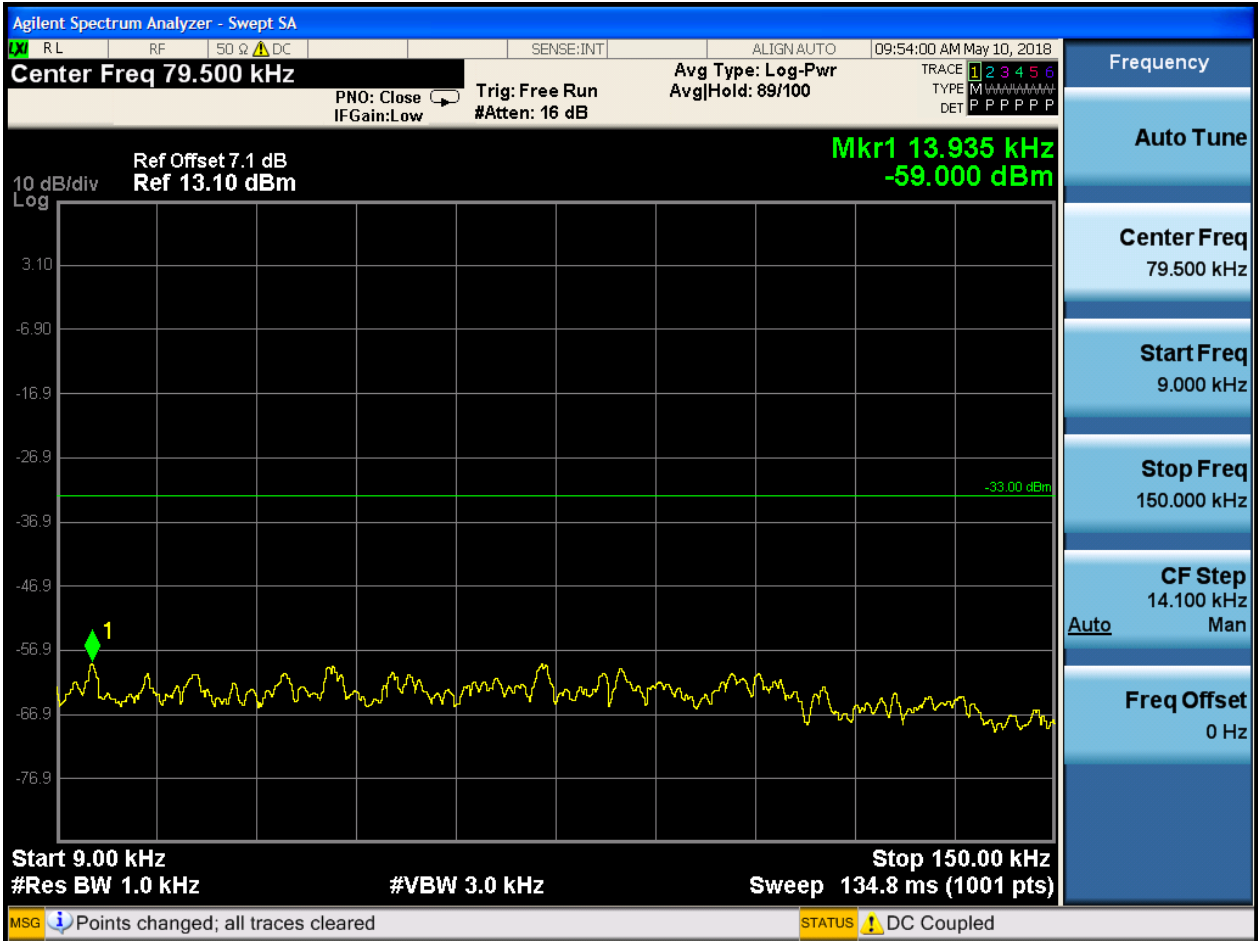




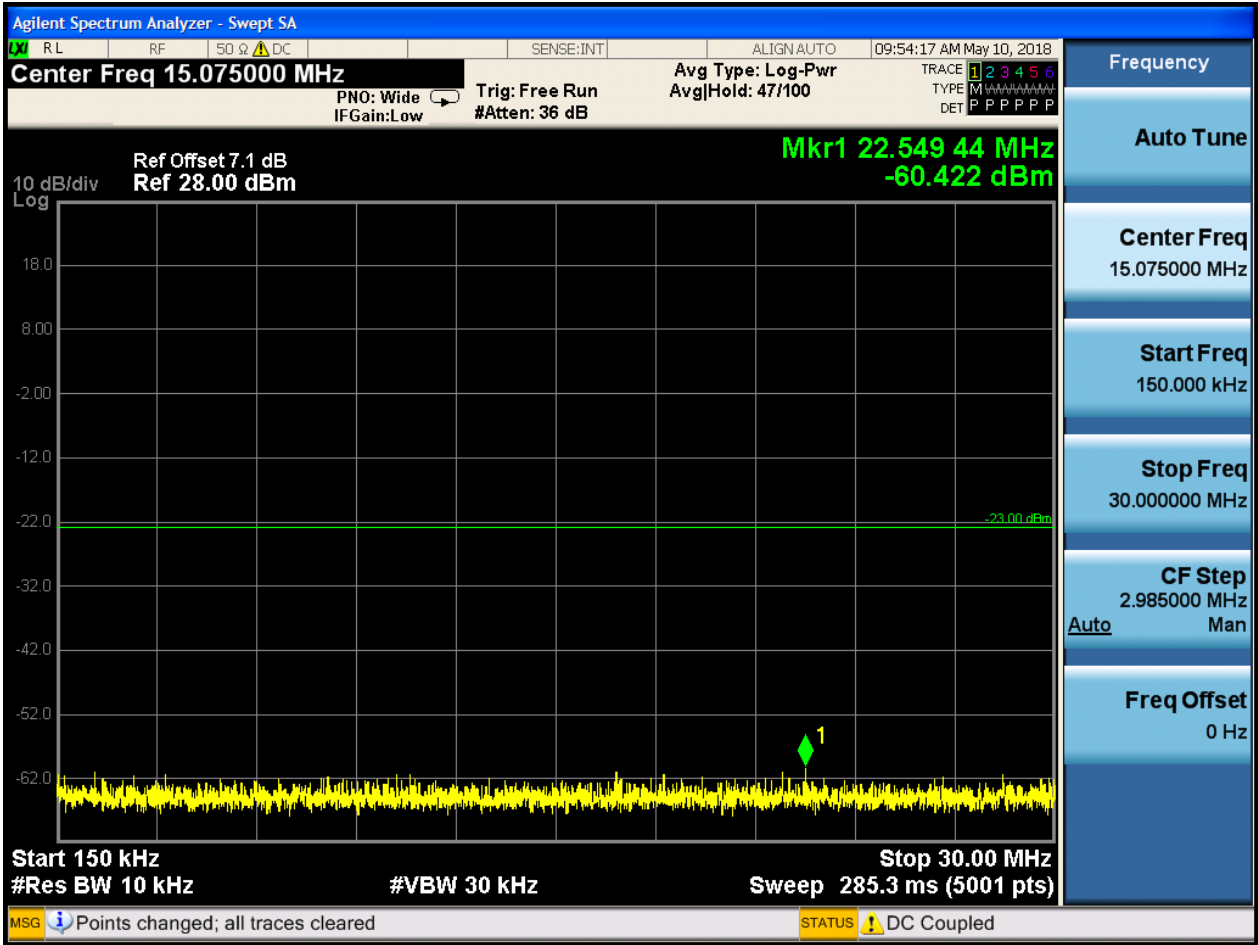


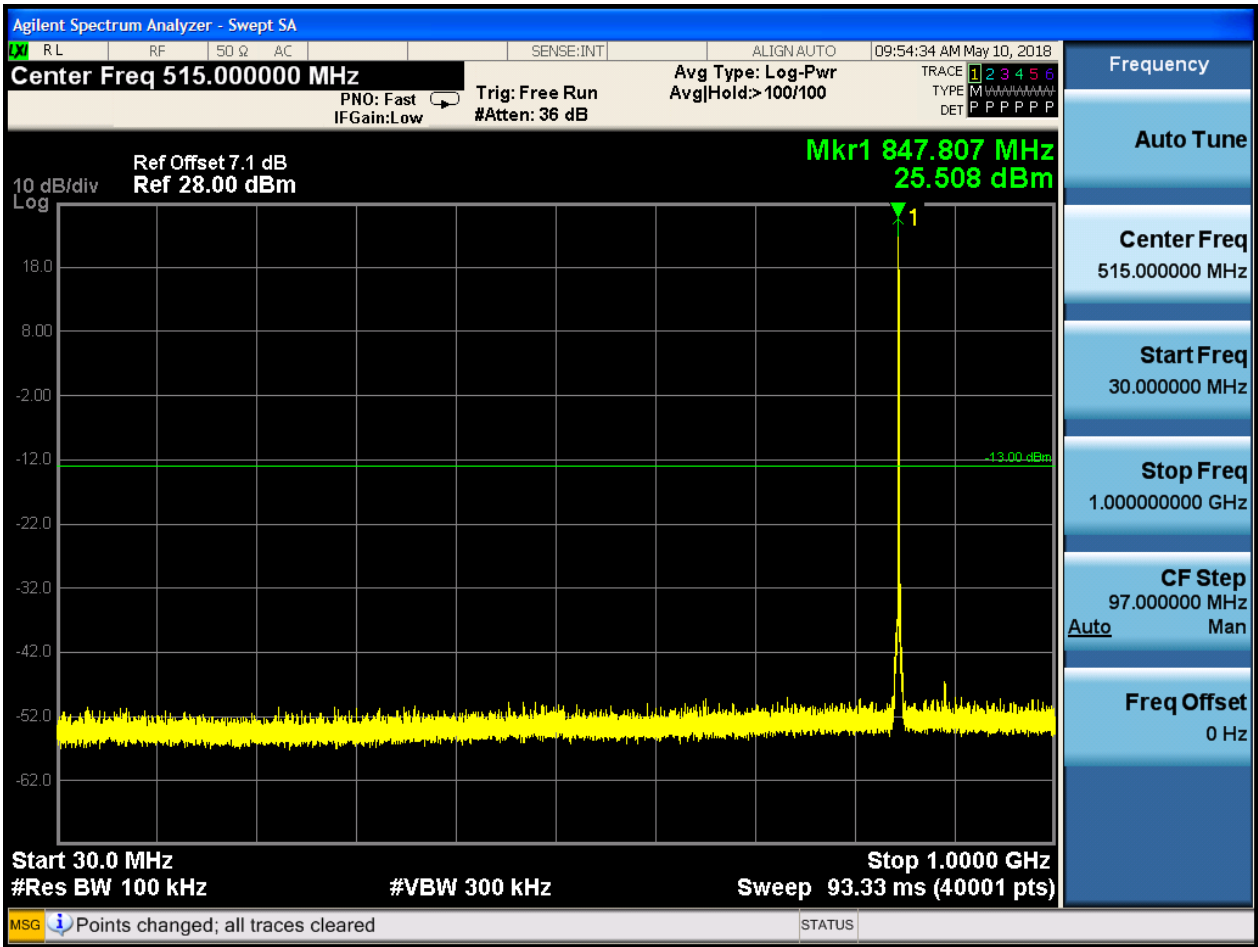
6.1.1.2.1.3 Test Channel = HCH

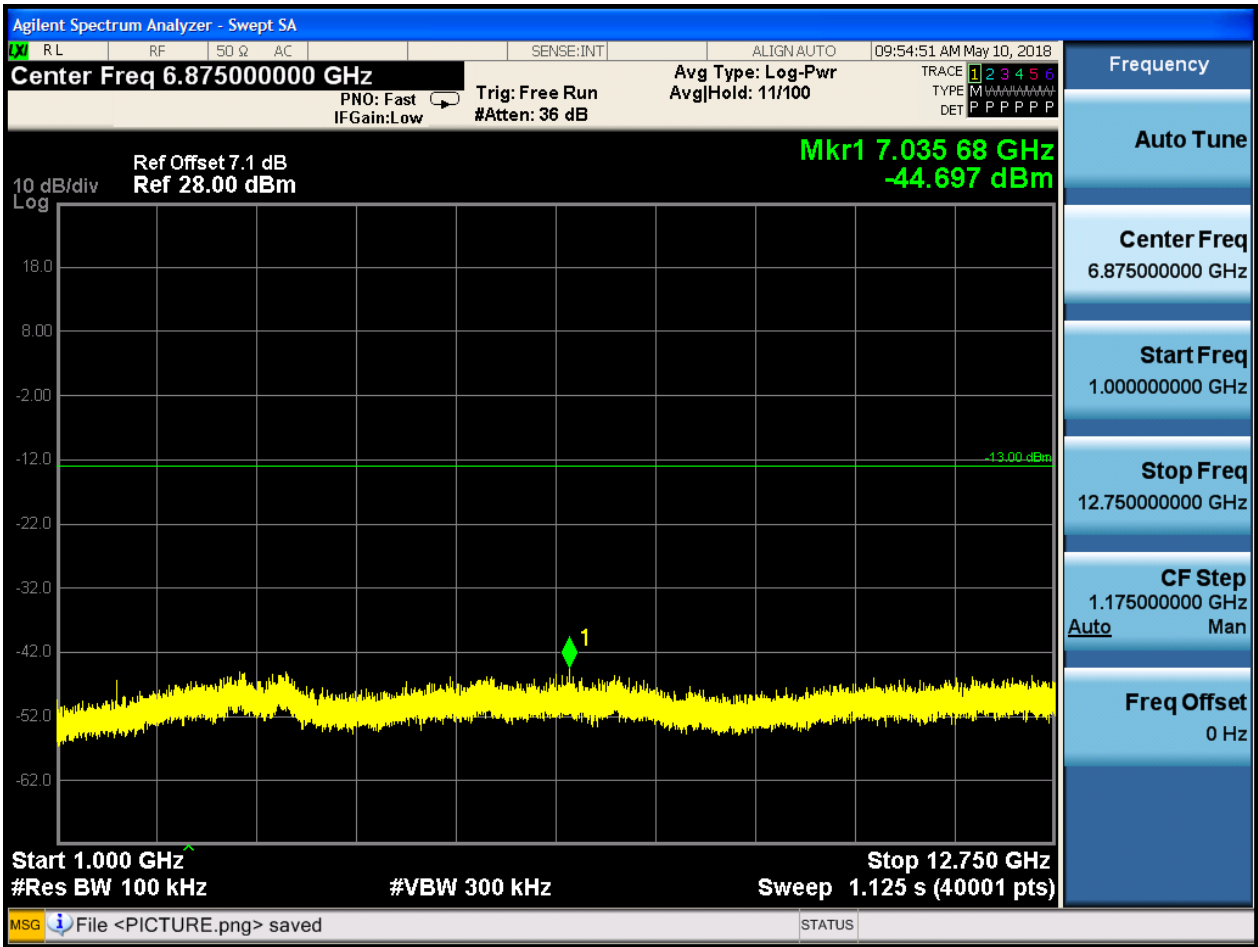
6.1.1.2.1.3.1 Test RB = RB1#0









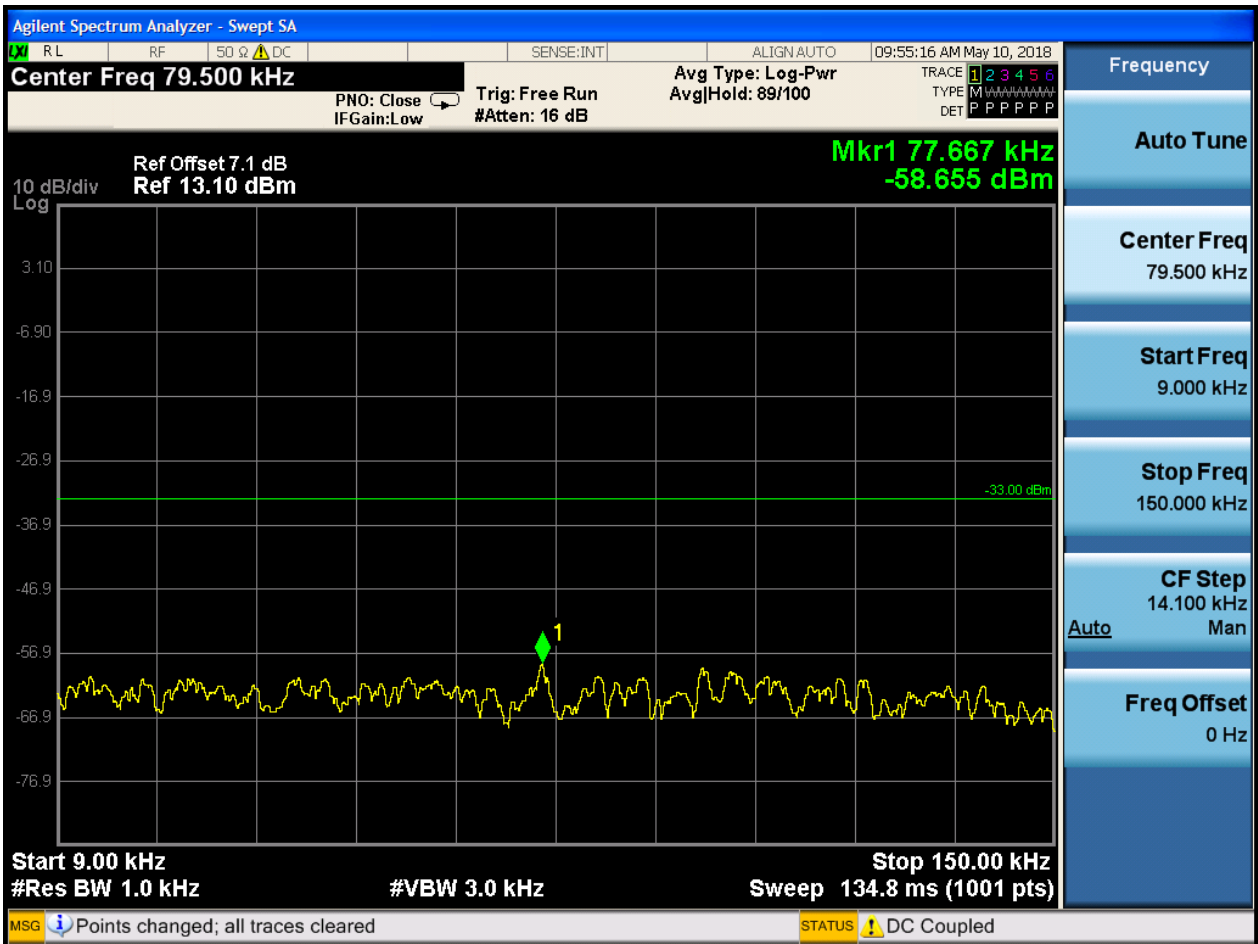


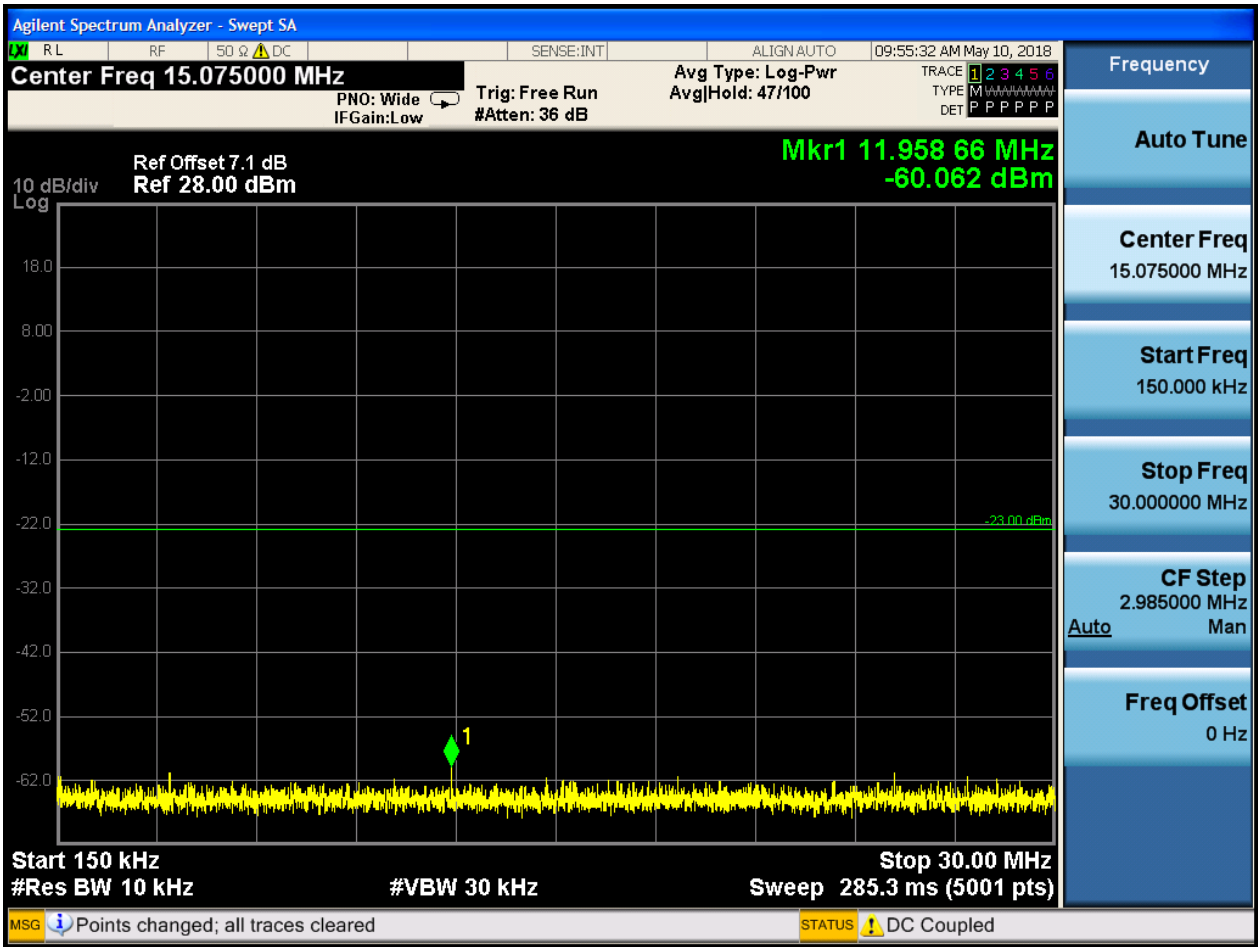


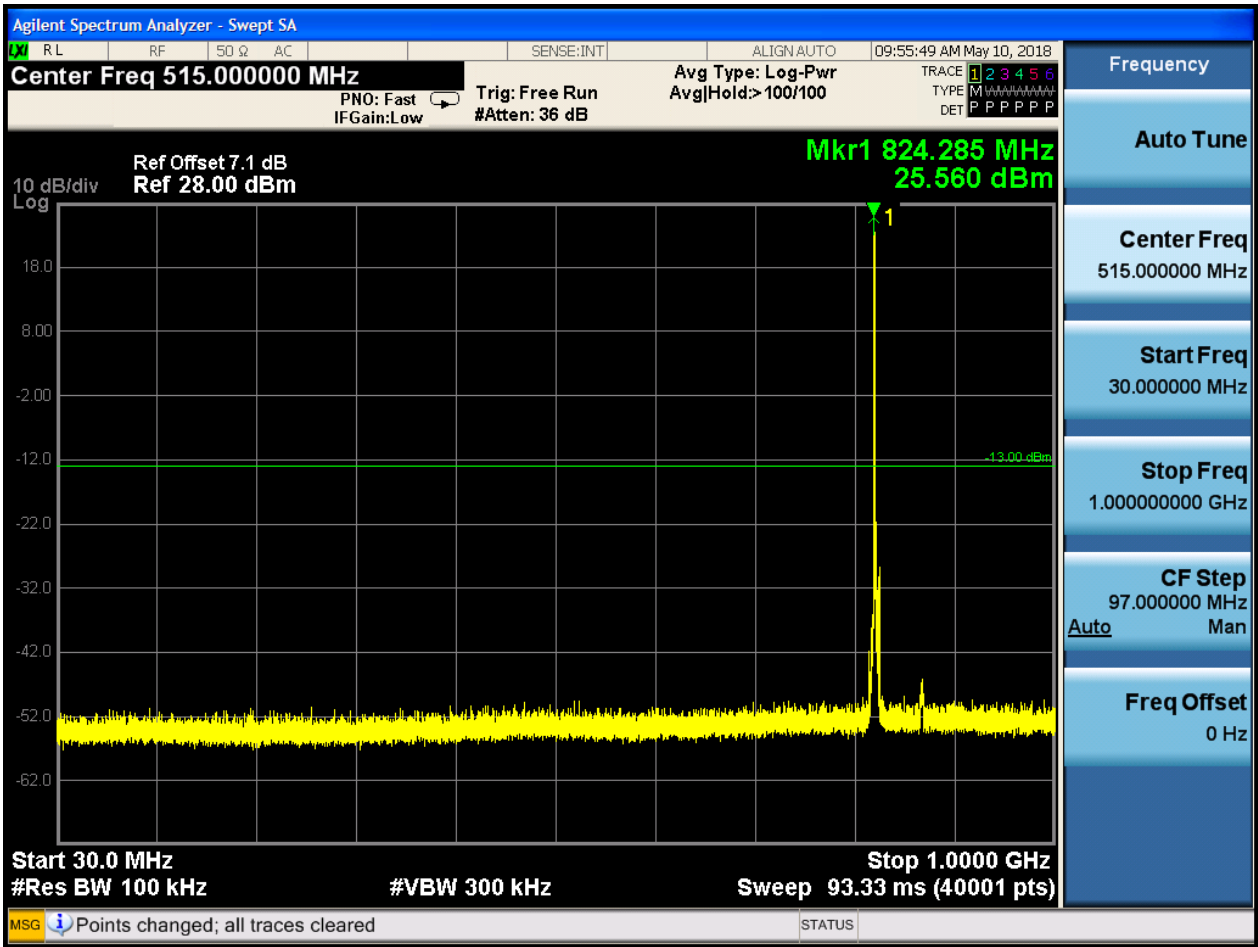
6.1.1.2.2 Test Bandwidth = 3

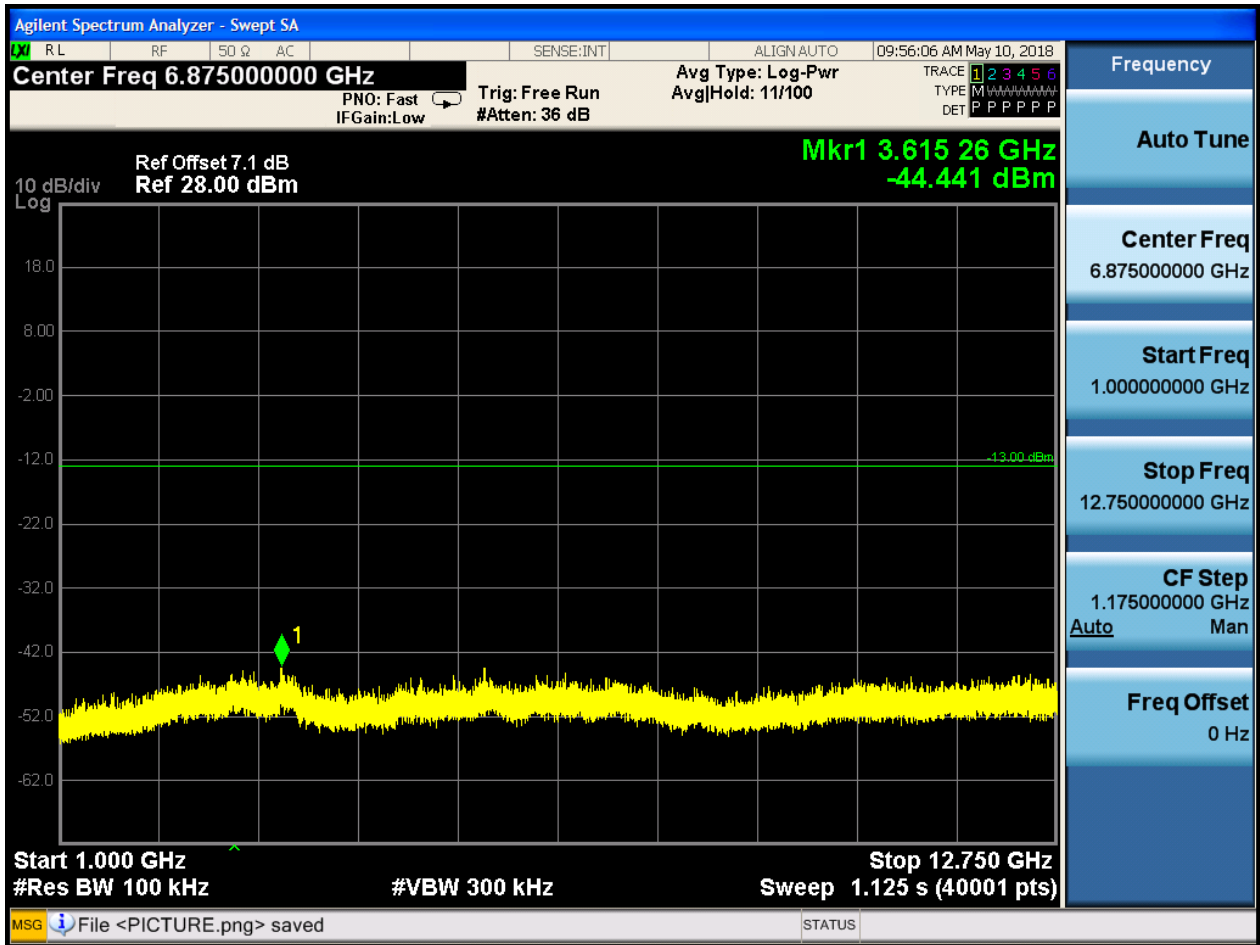
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





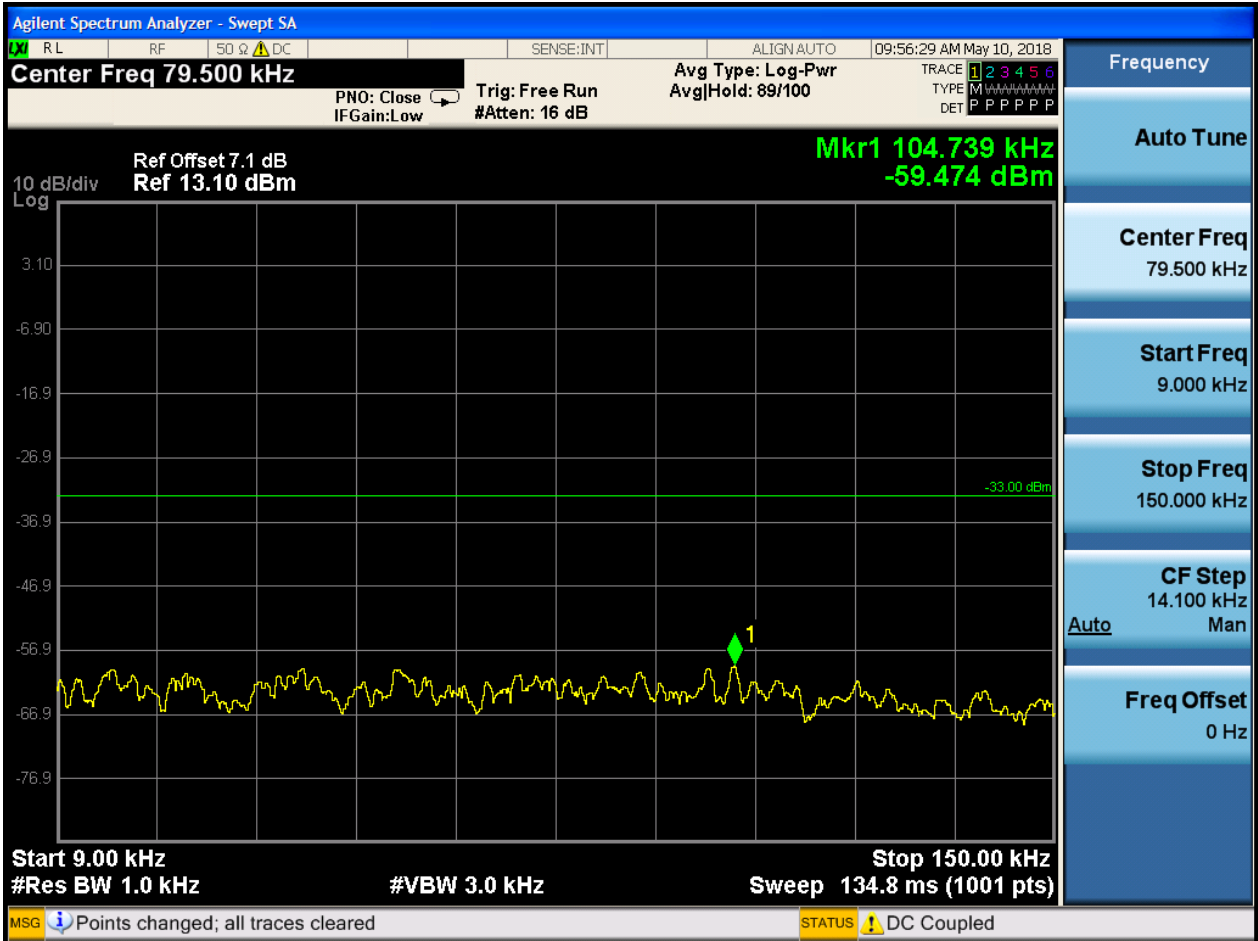




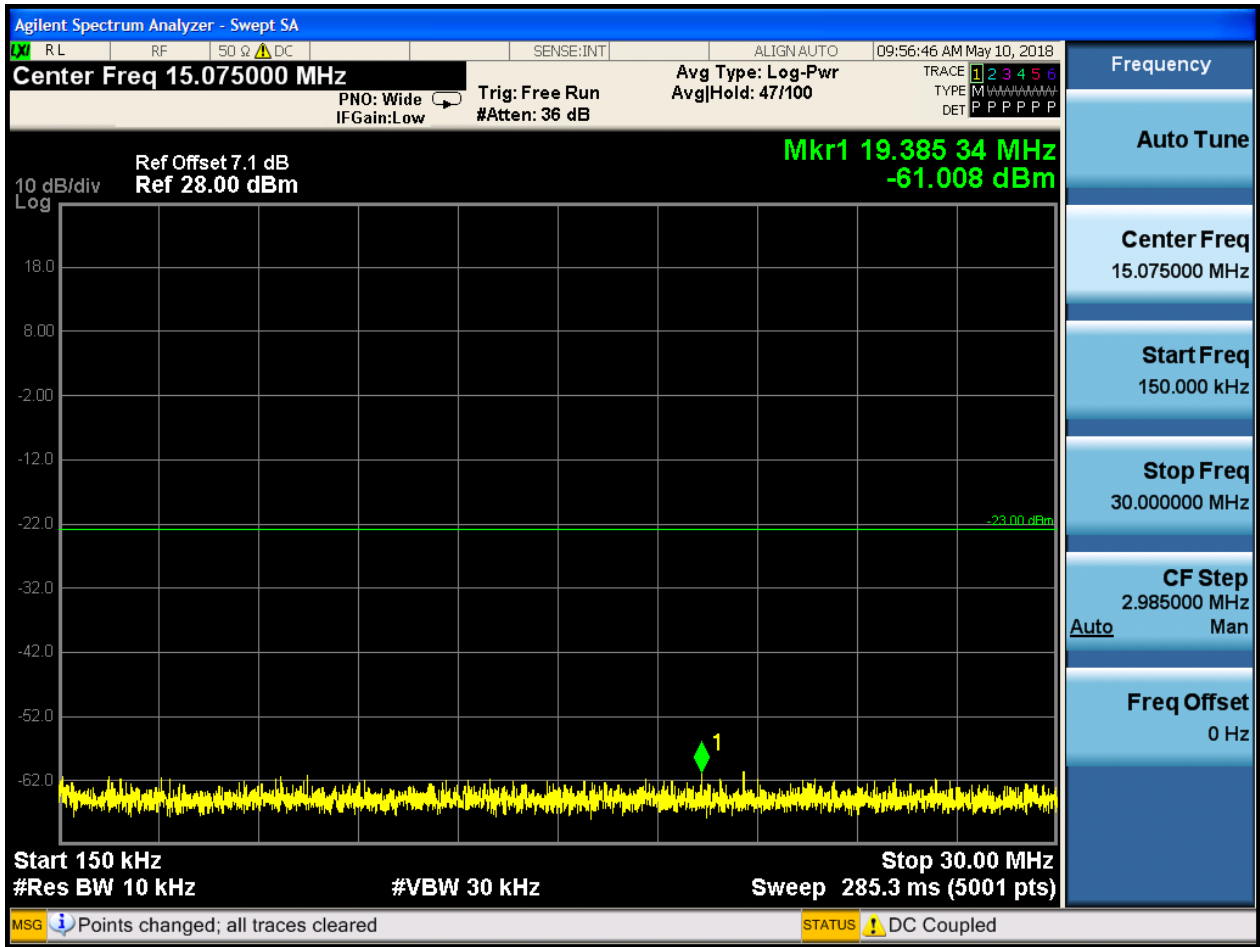


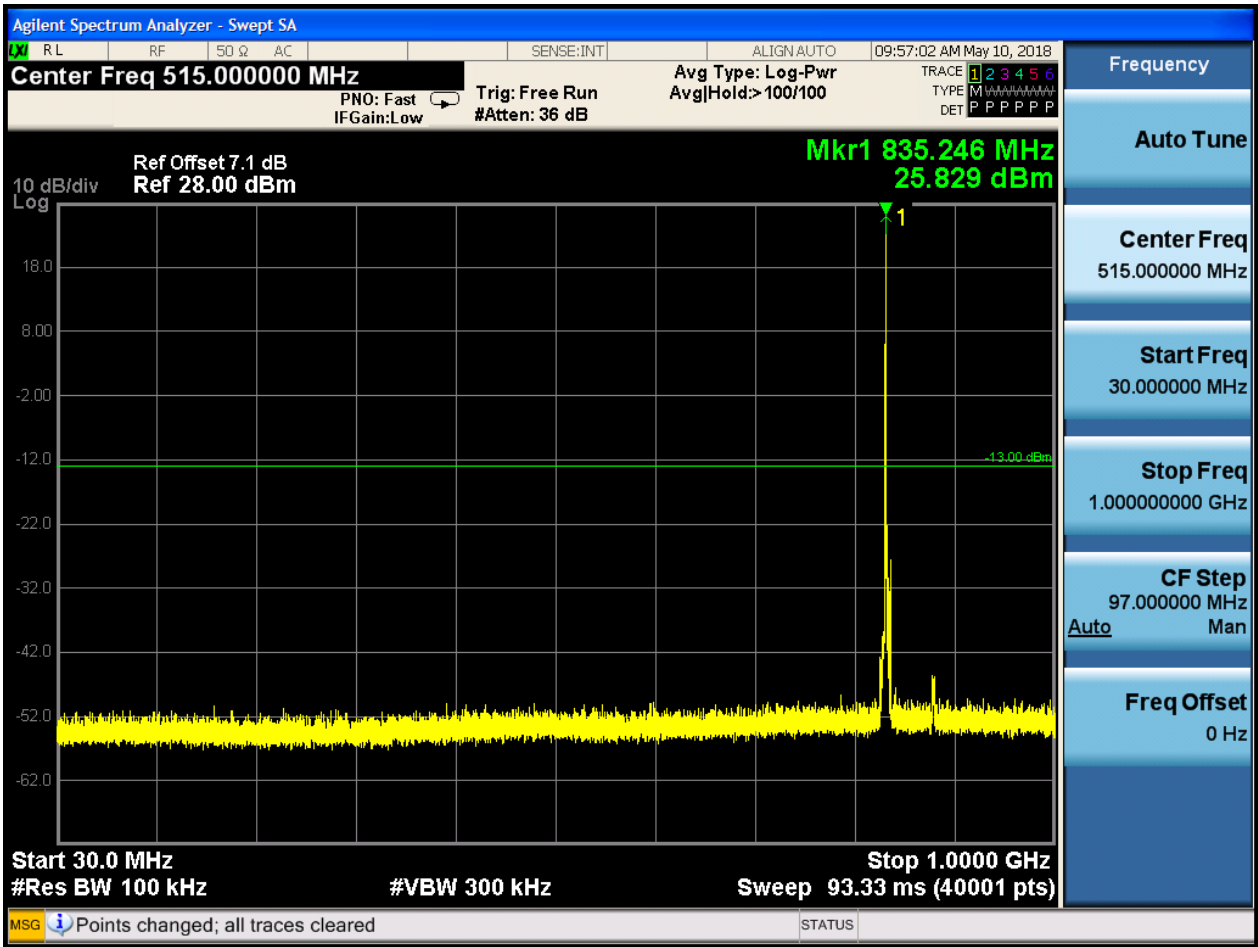
6.1.1.2.2.2 Test Channel = MCH

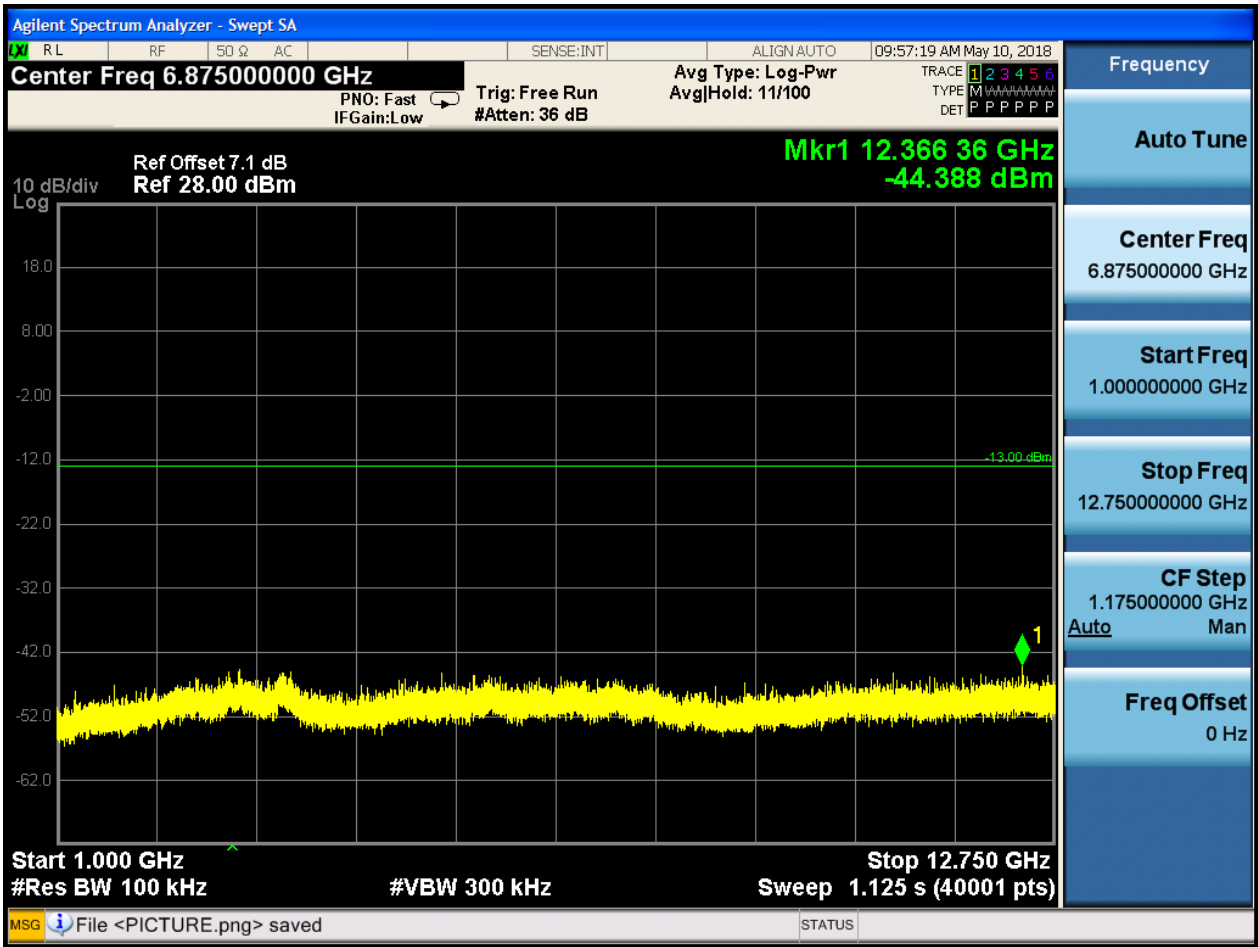
6.1.1.2.2.2.1 Test RB = RB1#0







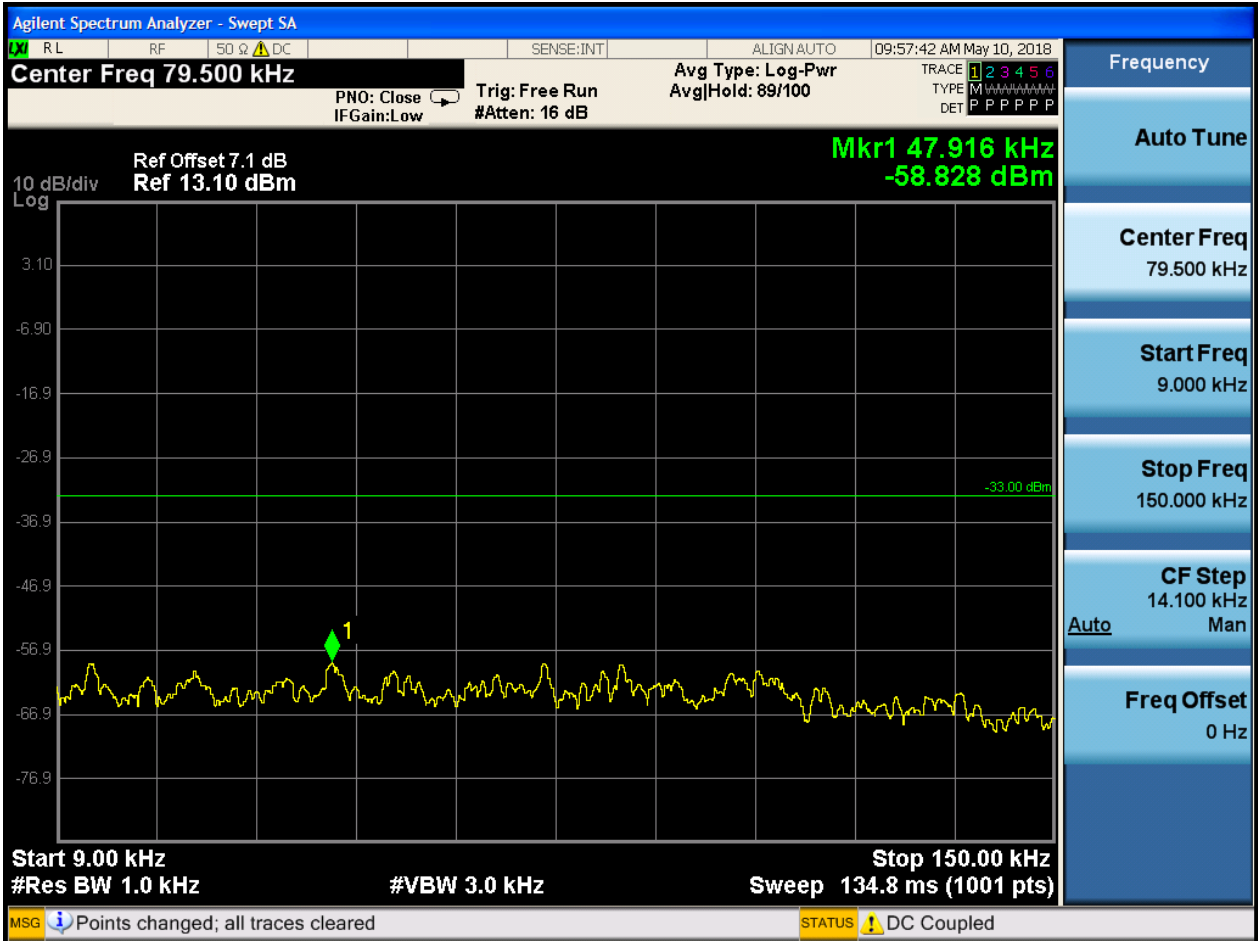


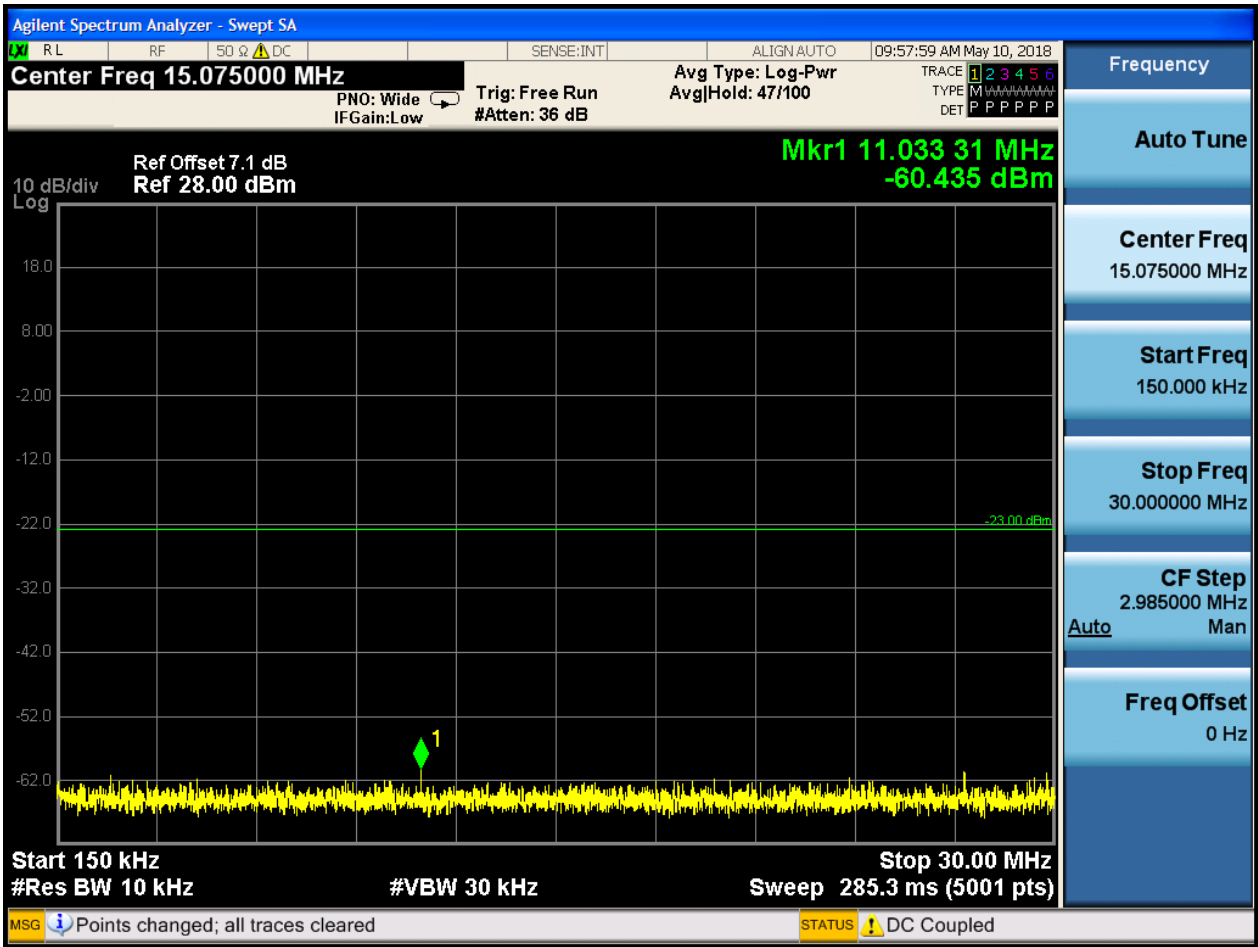




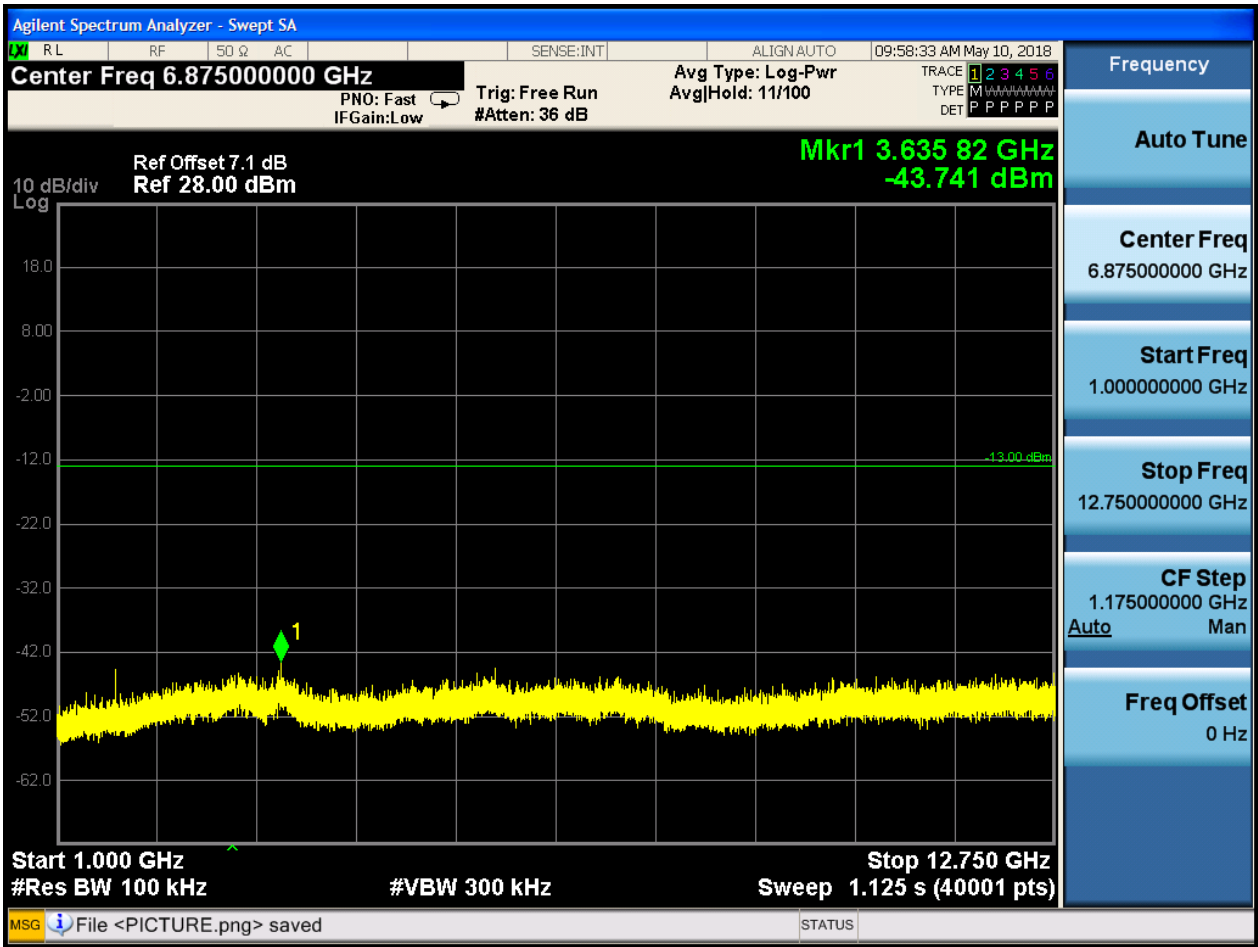
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







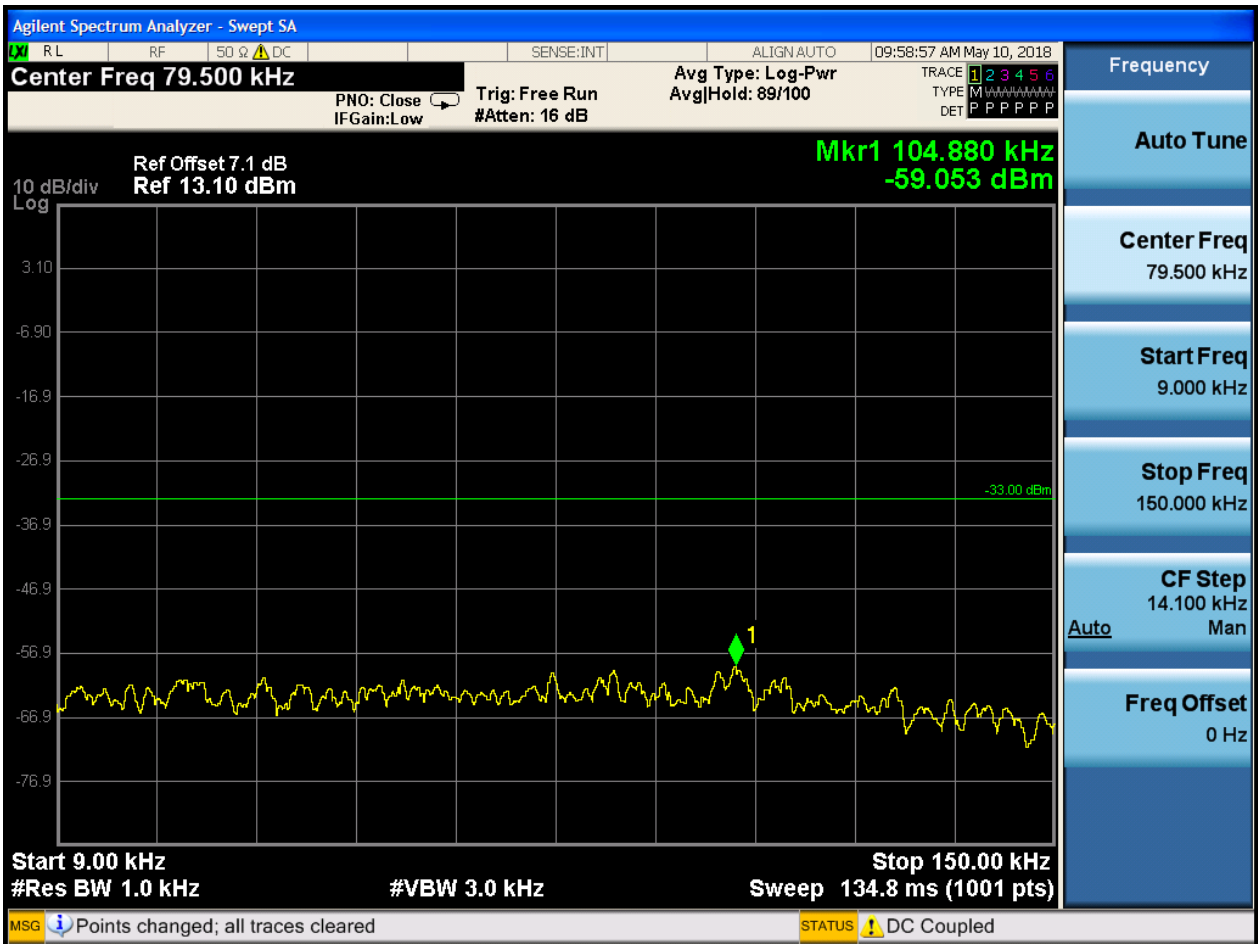




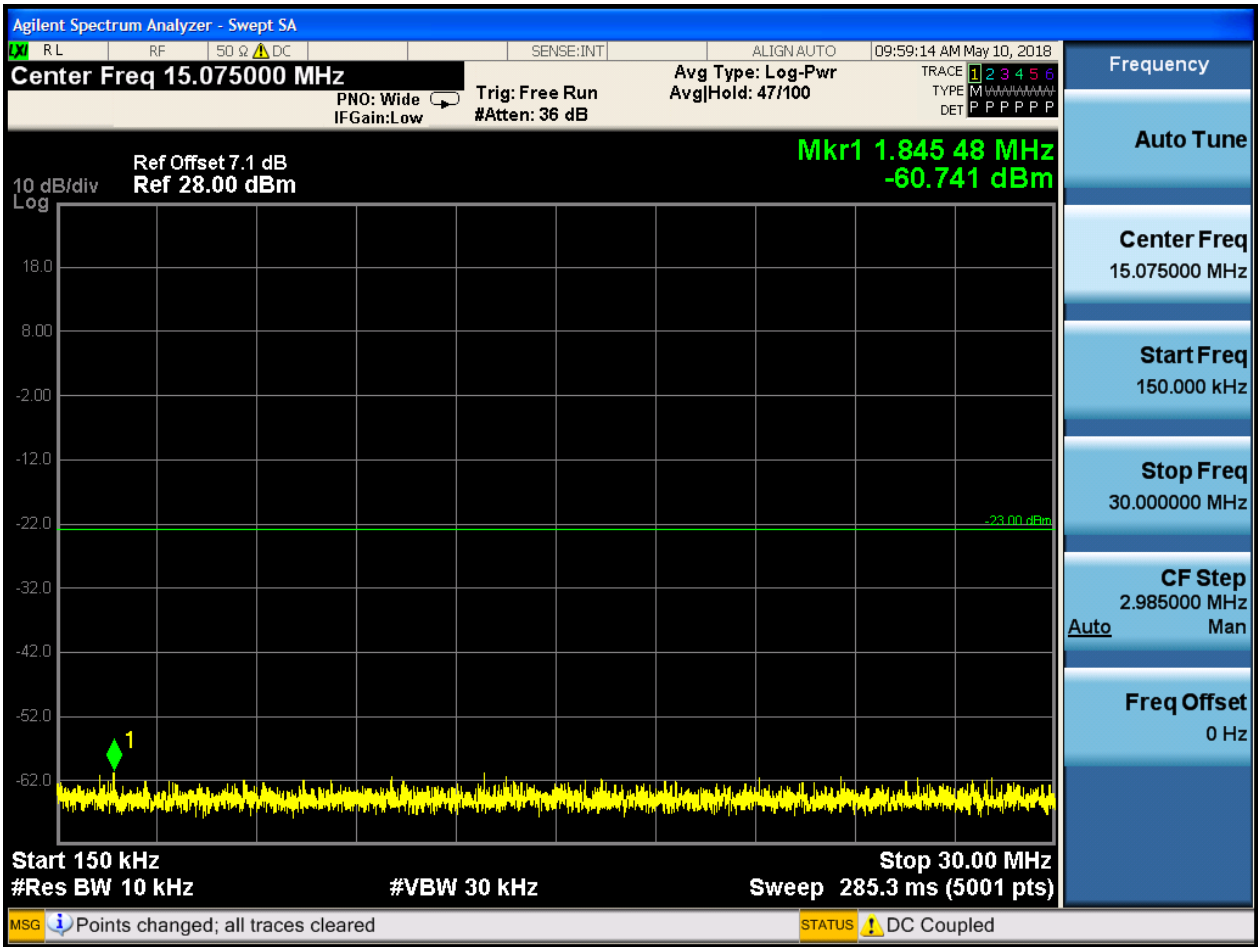
6.1.1.2.3 Test Bandwidth = 5

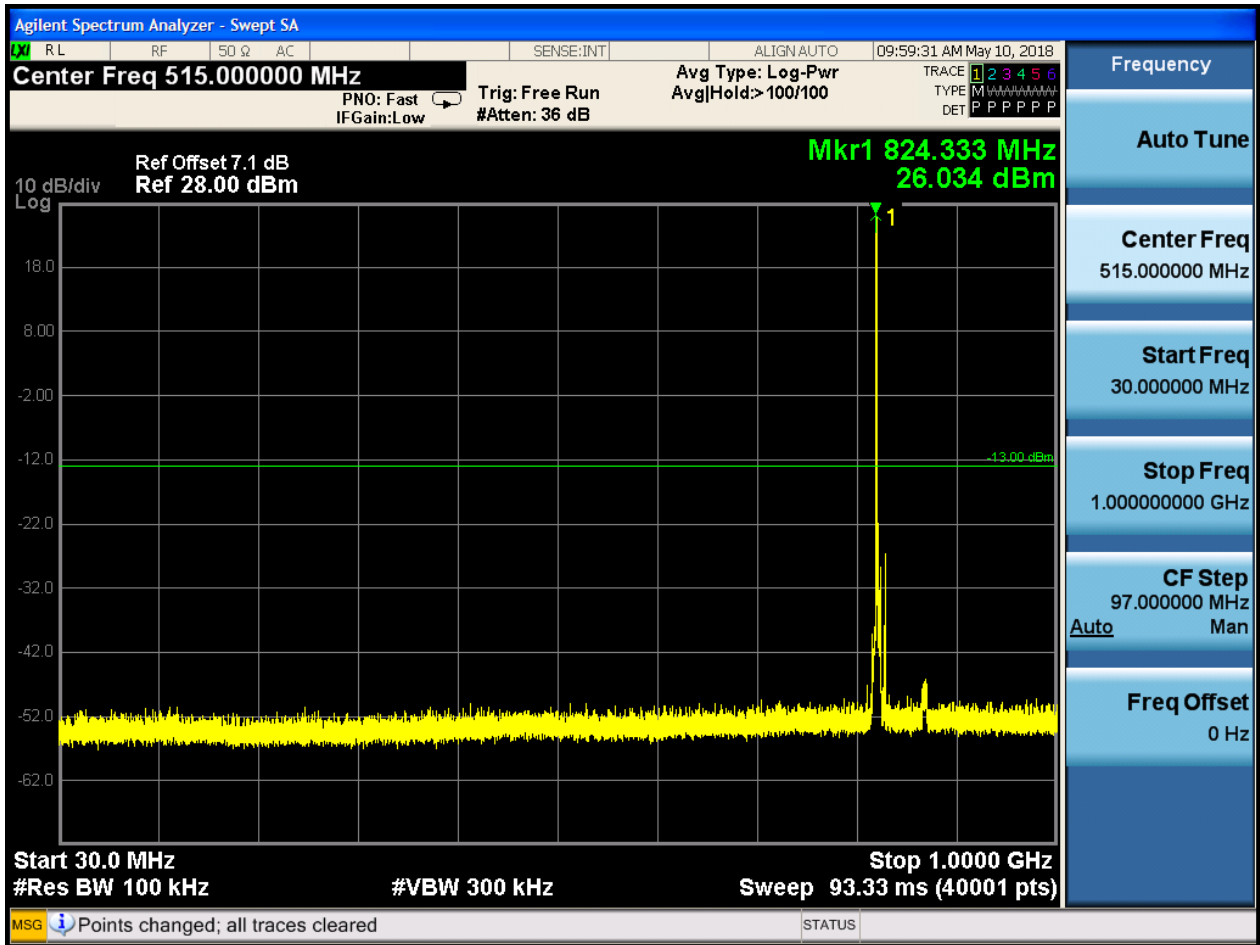
6.1.1.2.3.1 Test Channel = LCH

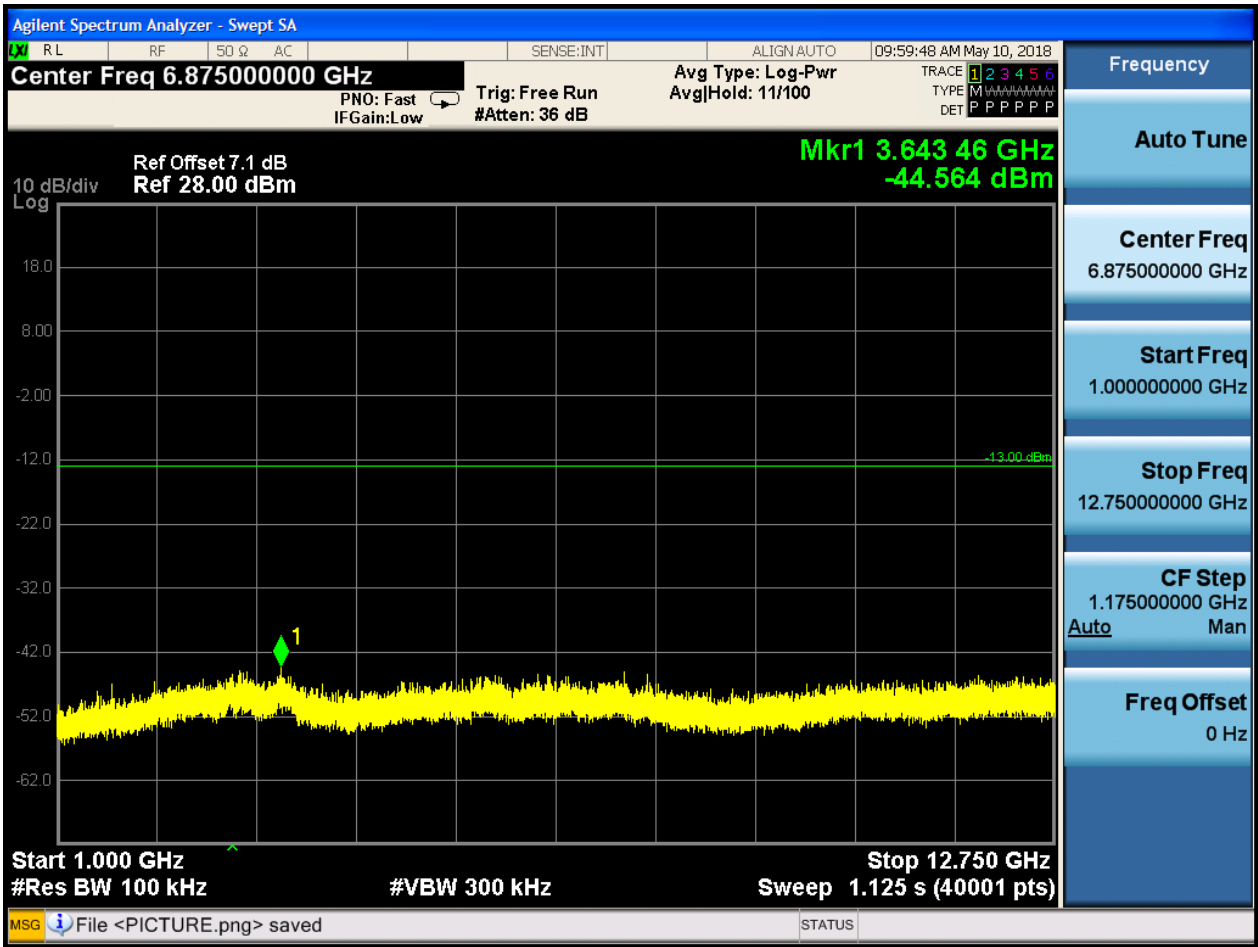
6.1.1.2.3.1.1 Test RB = RB1#0







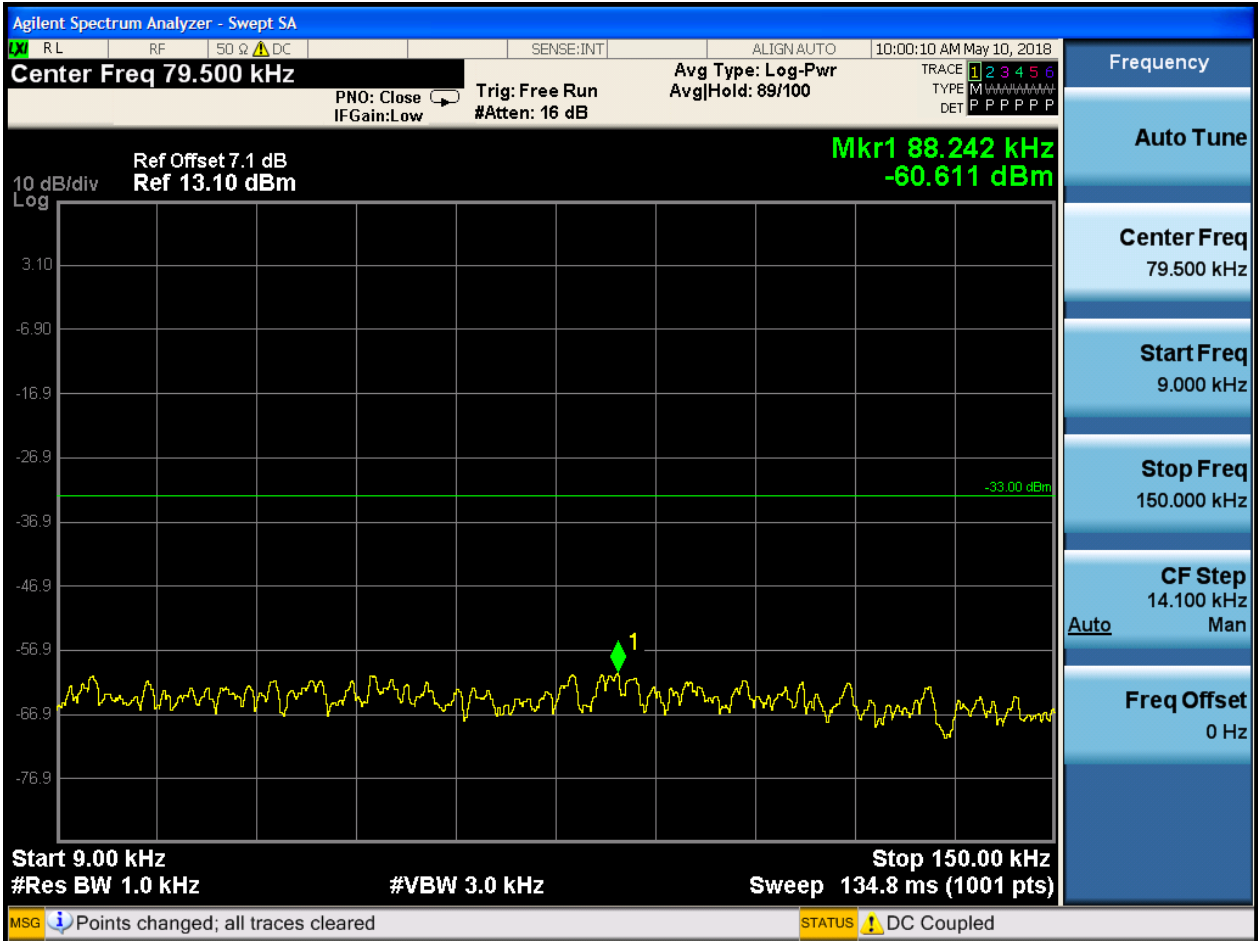


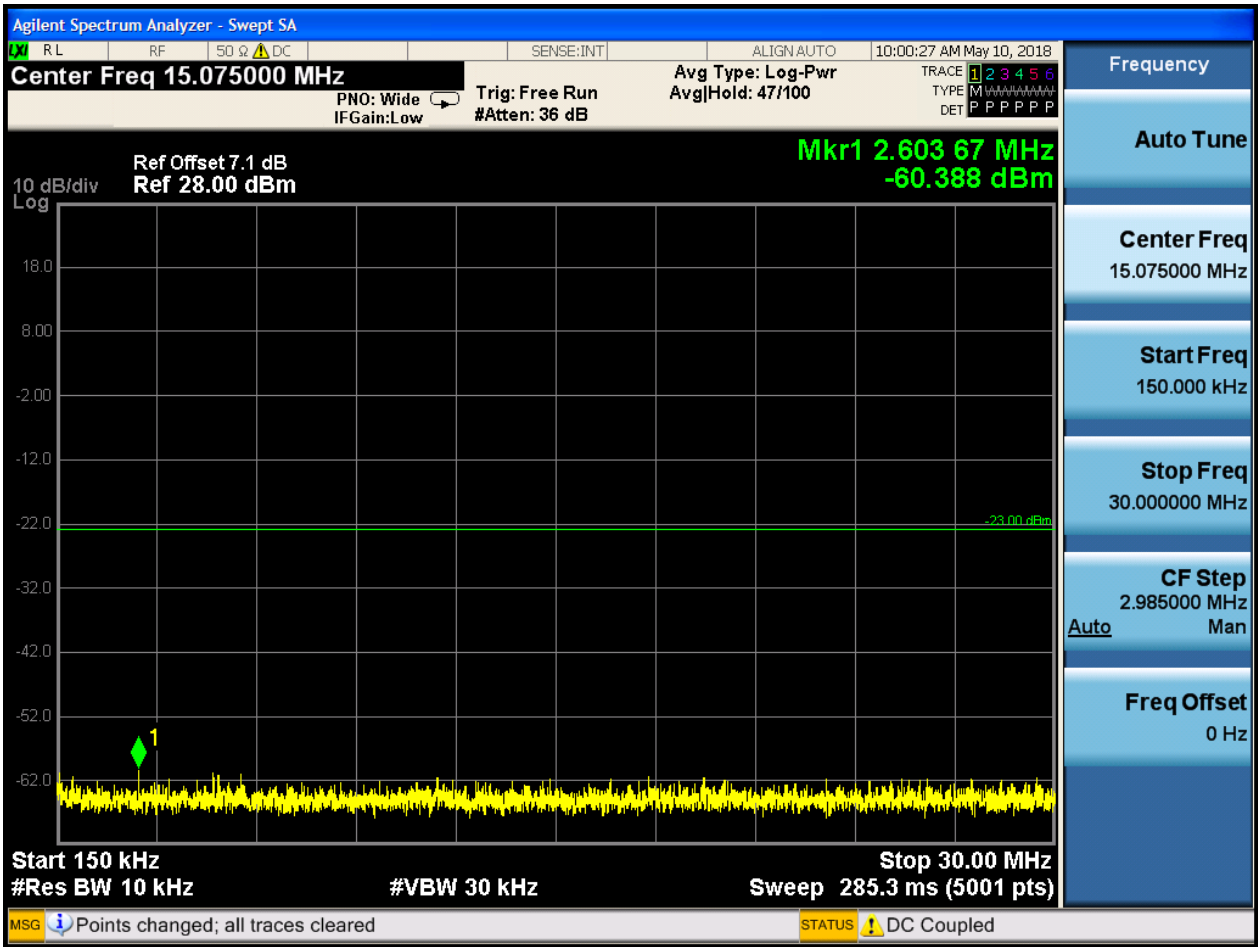


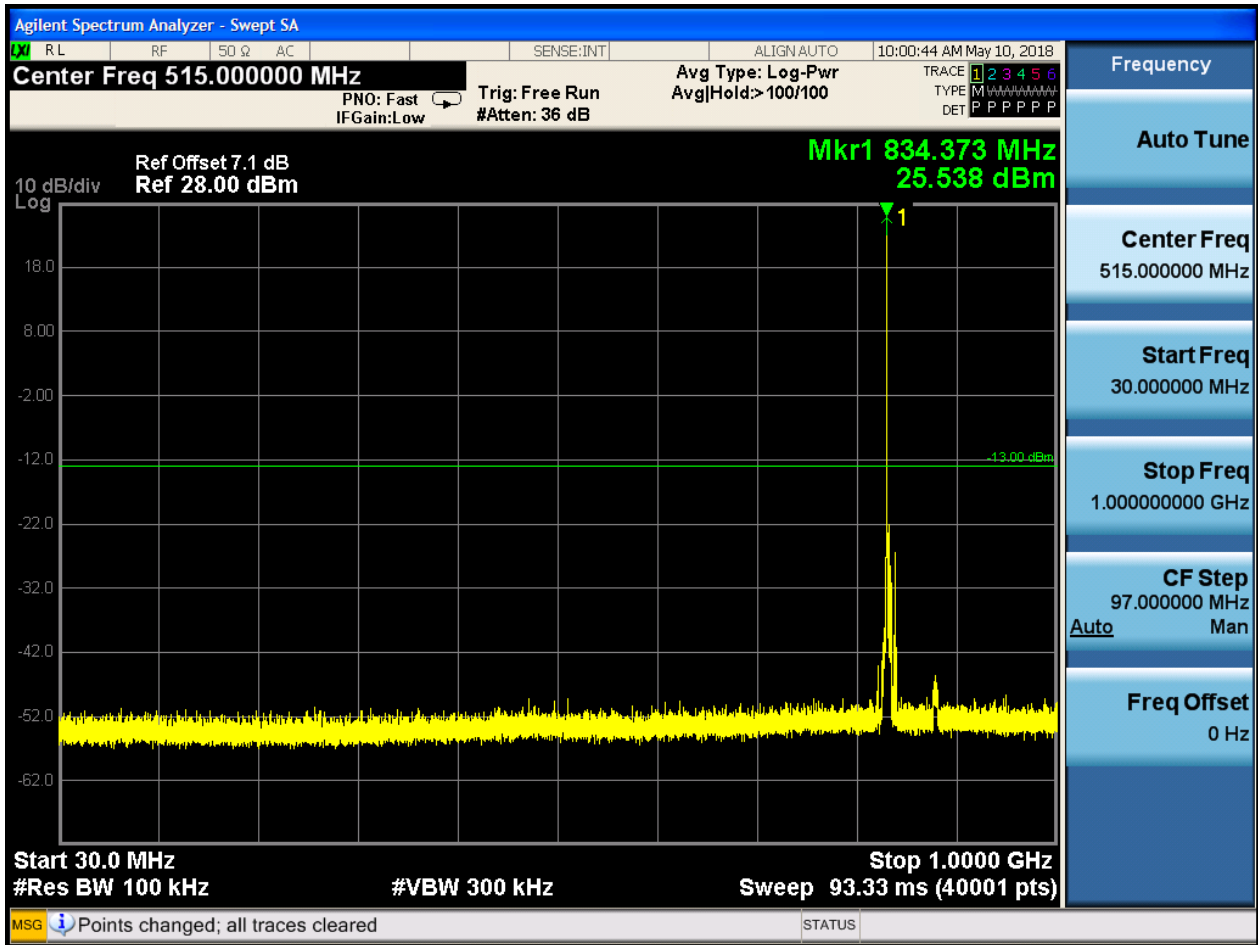


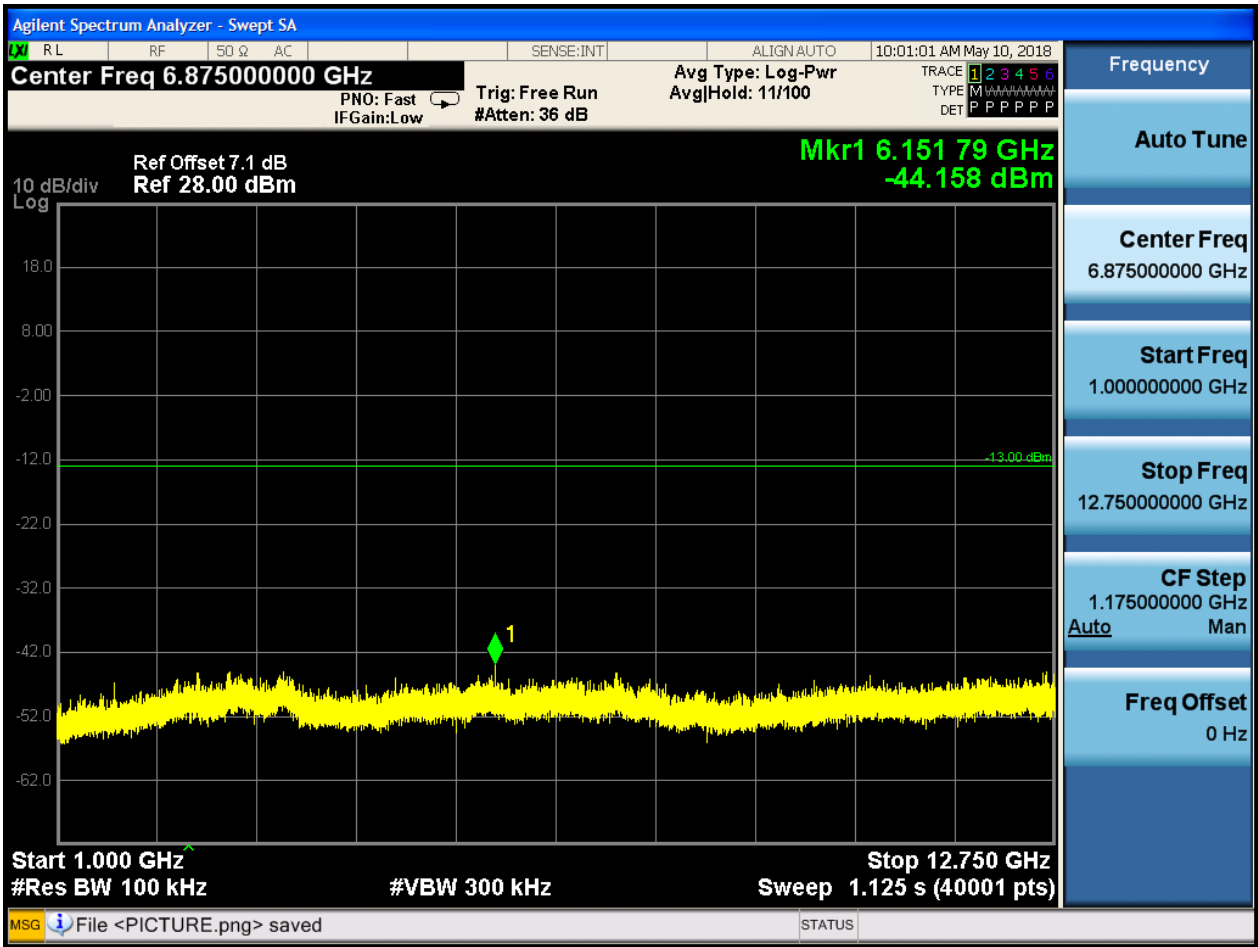
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





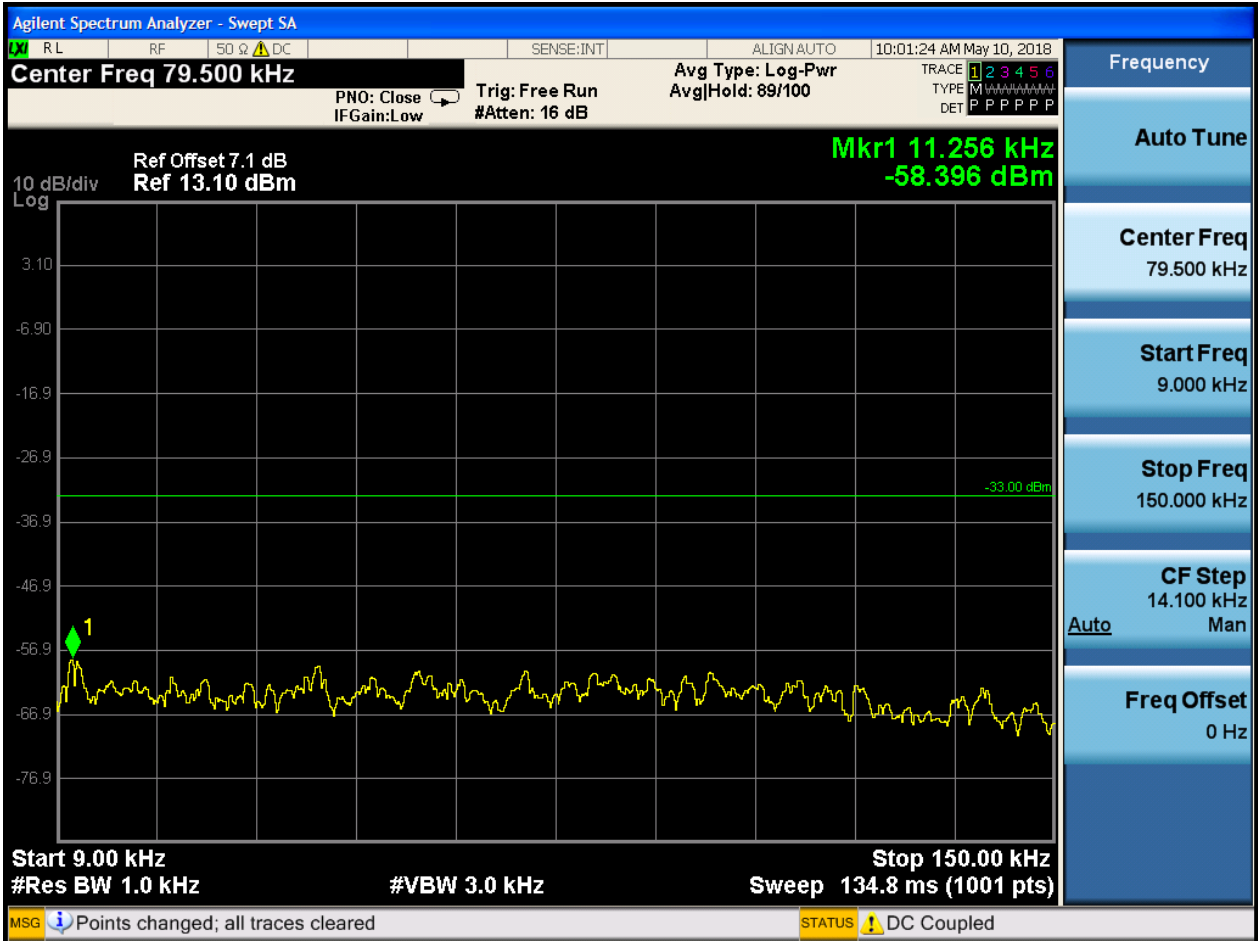




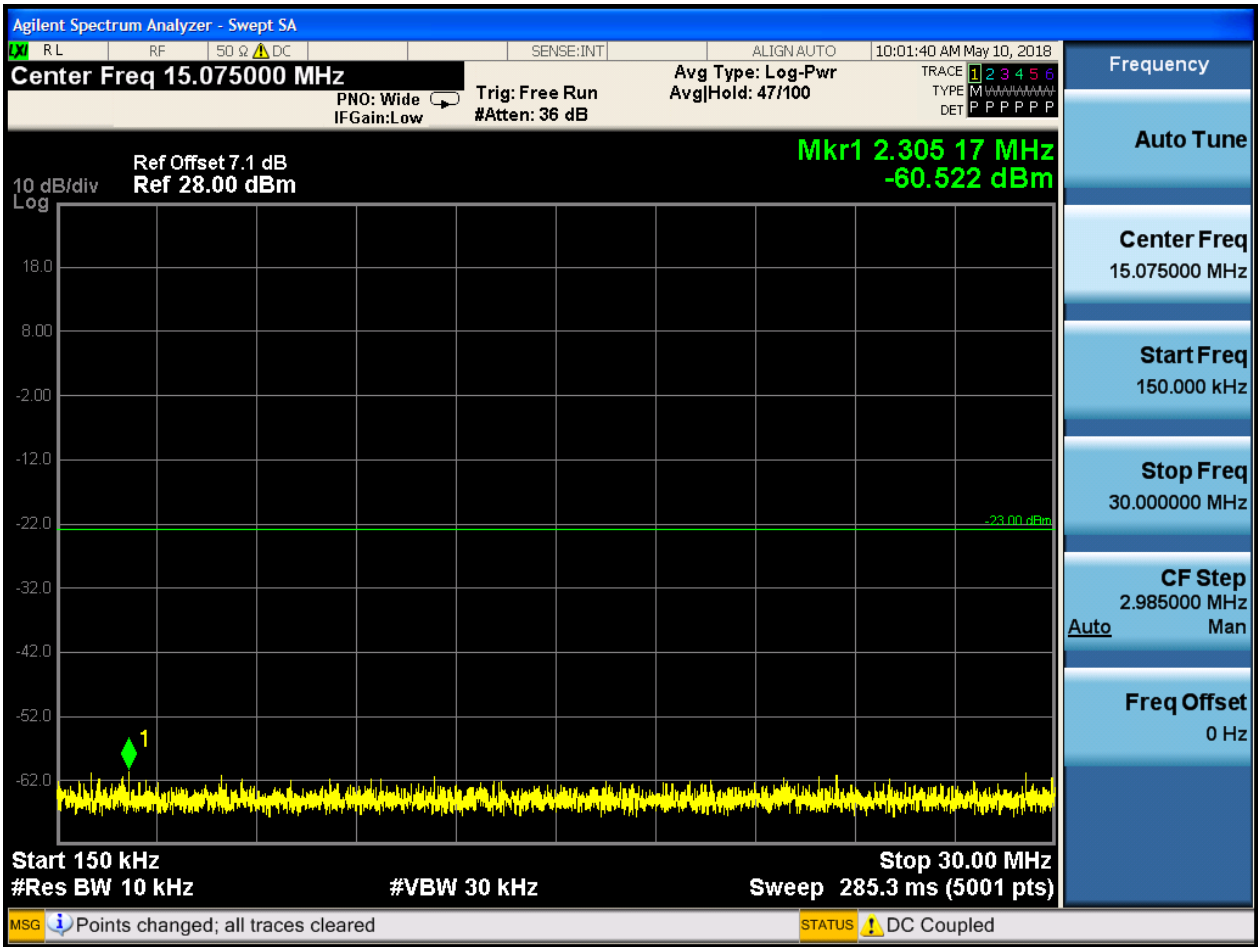


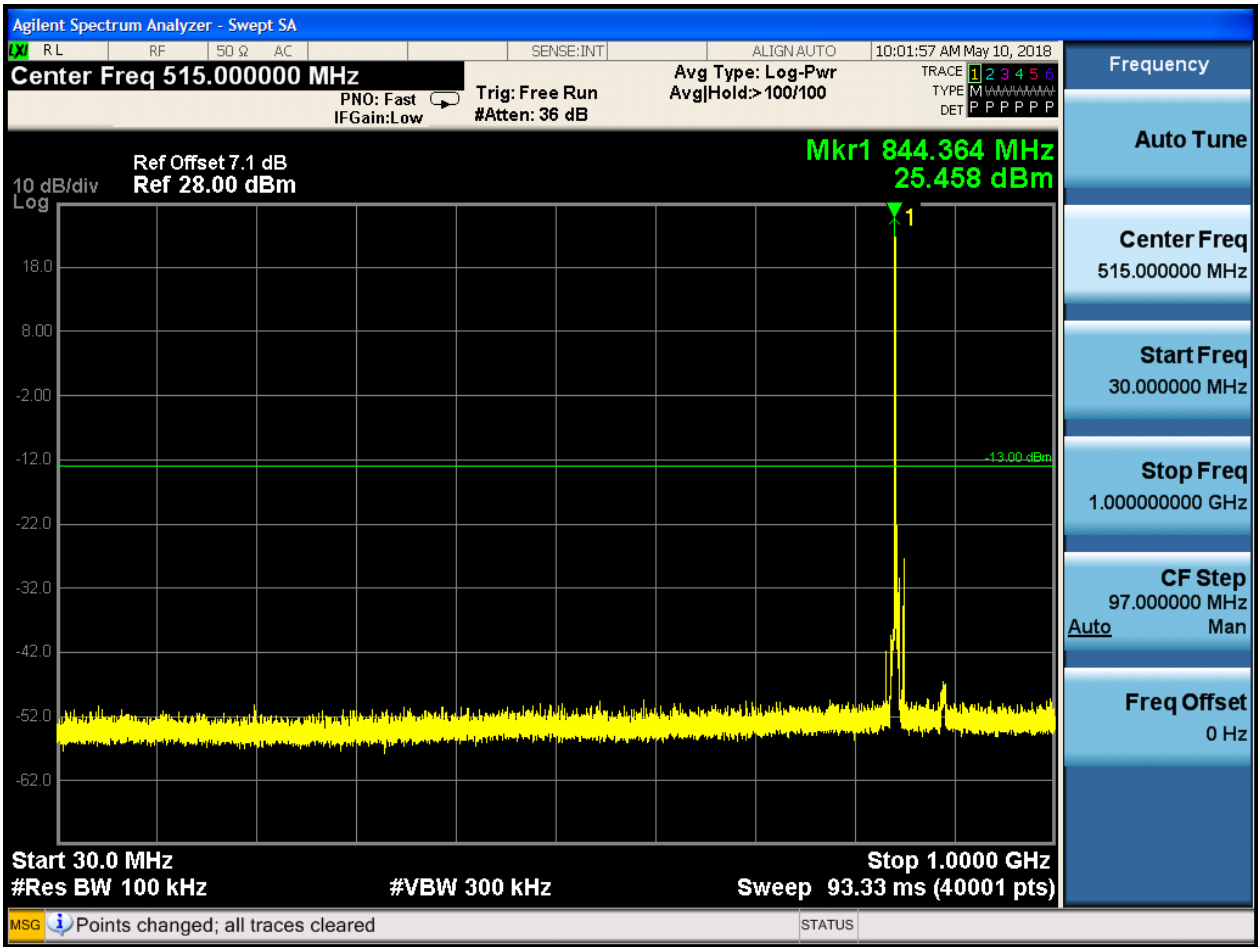
6.1.1.2.3.3 Test Channel = HCH

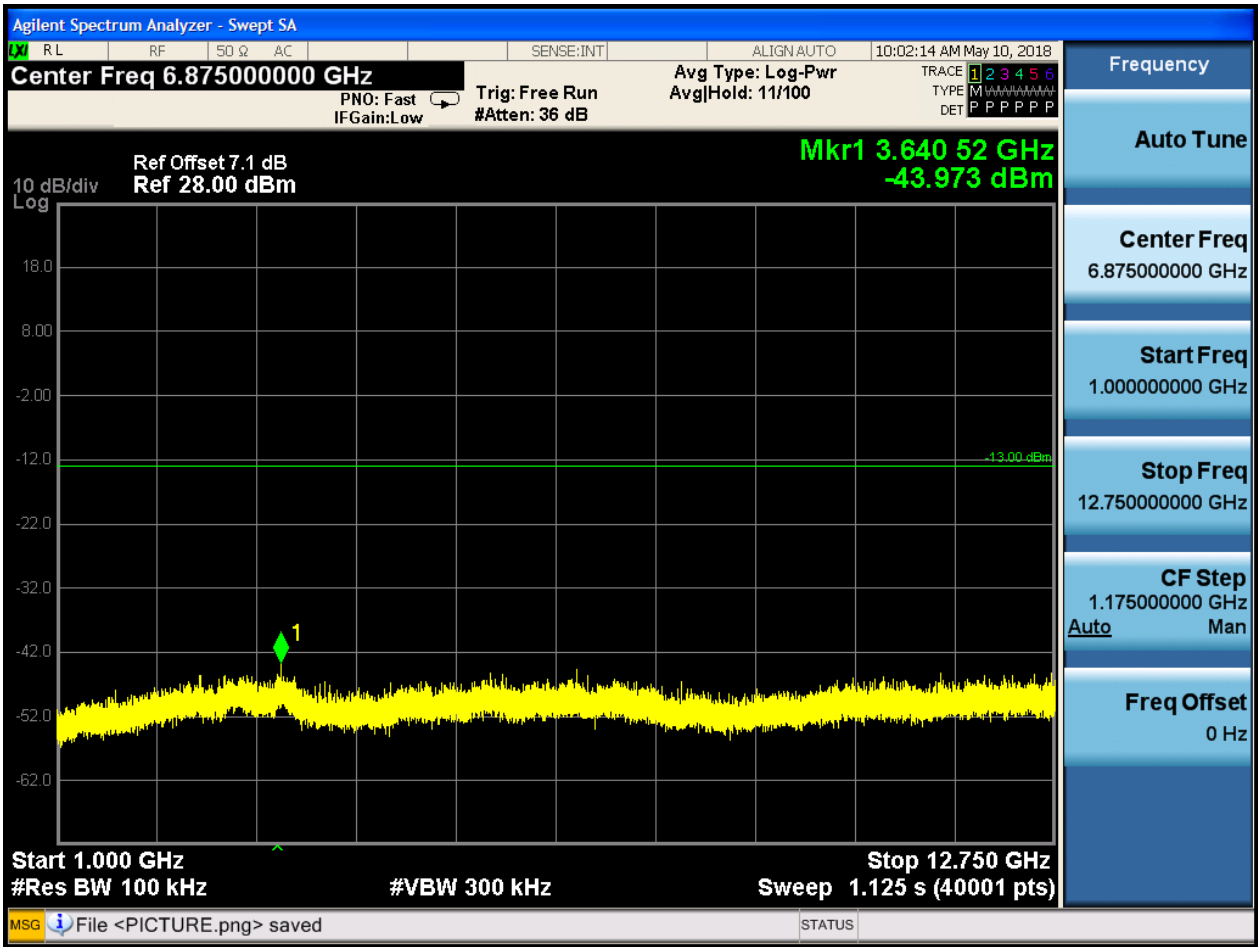
6.1.1.2.3.3.1 Test RB = RB1#0









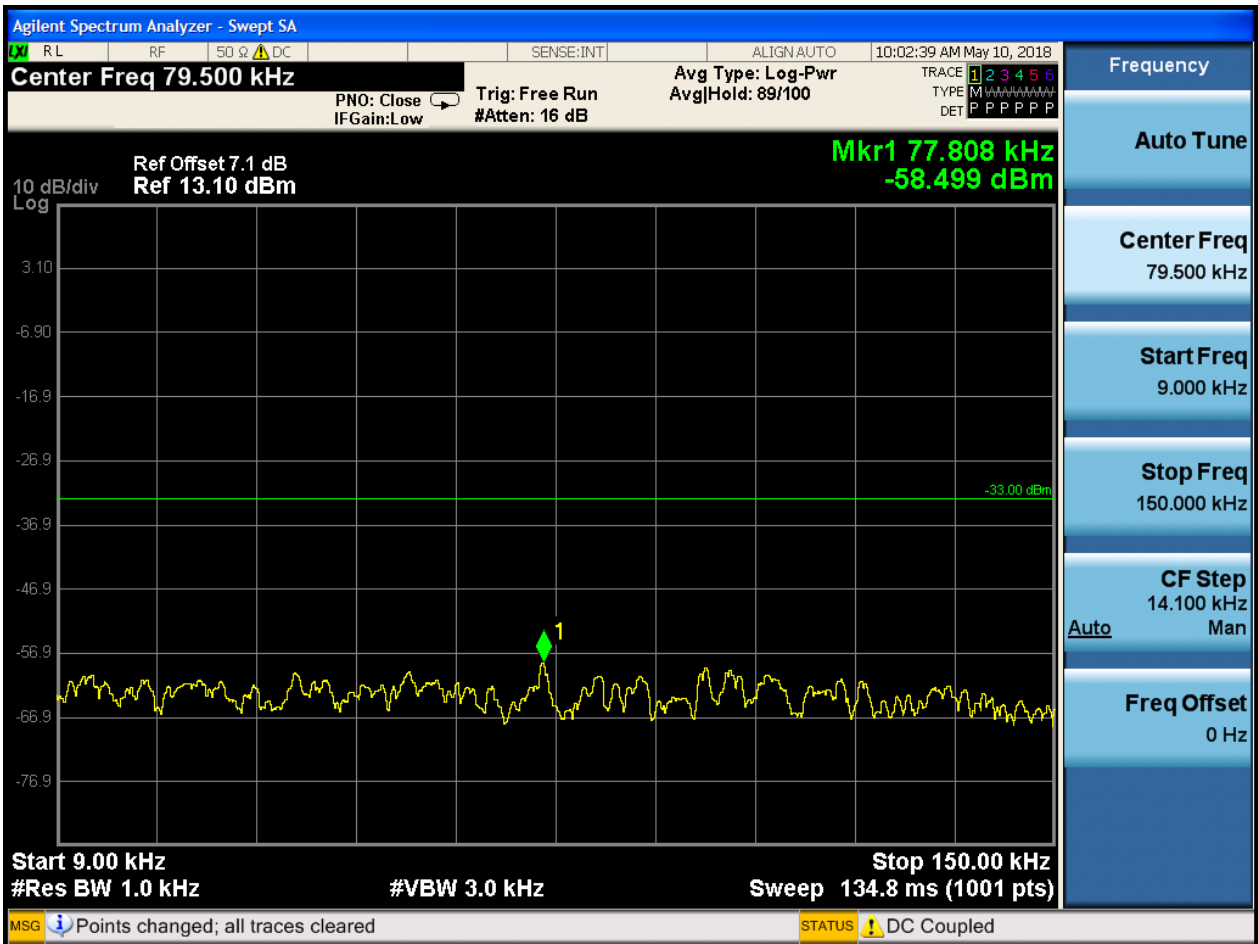


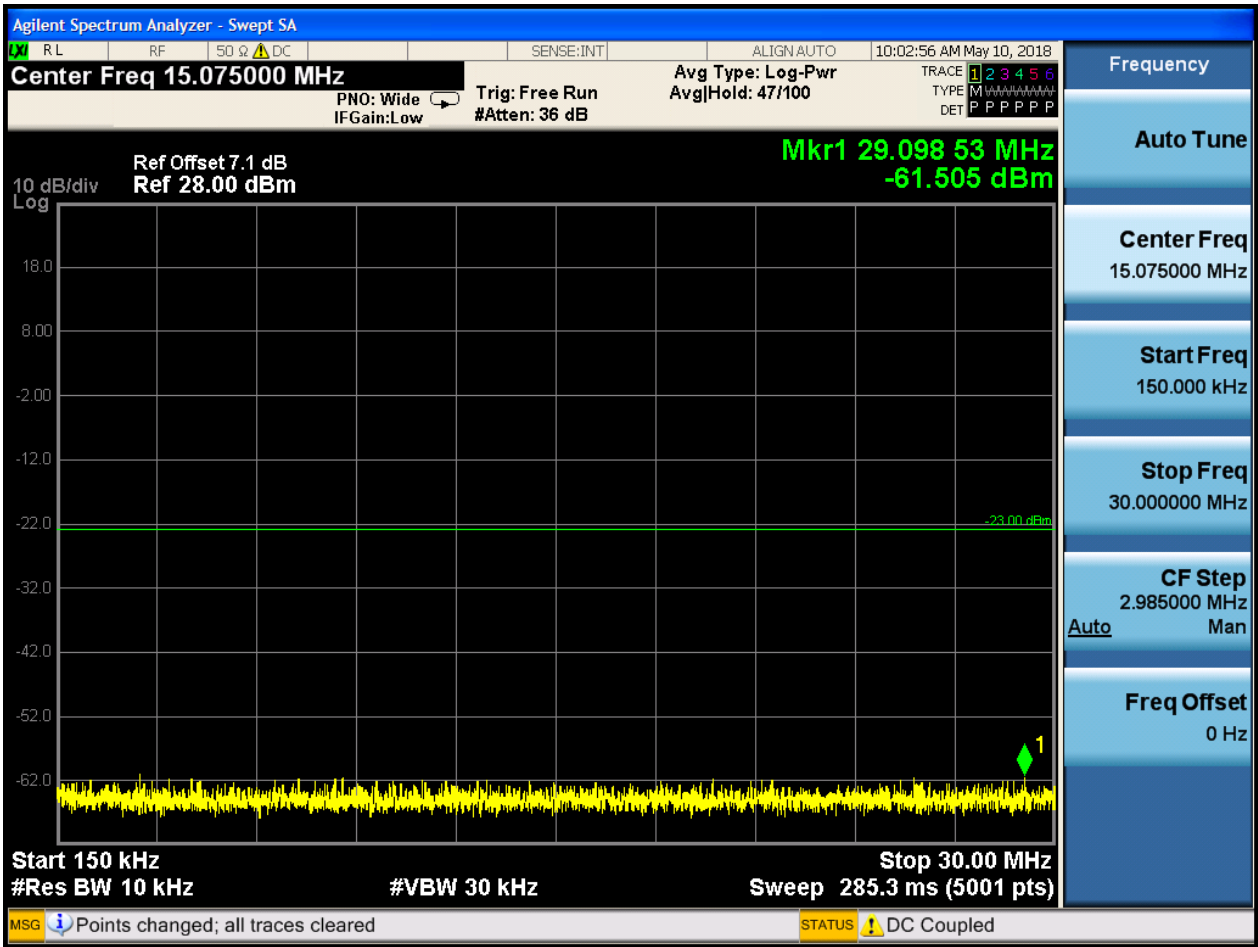


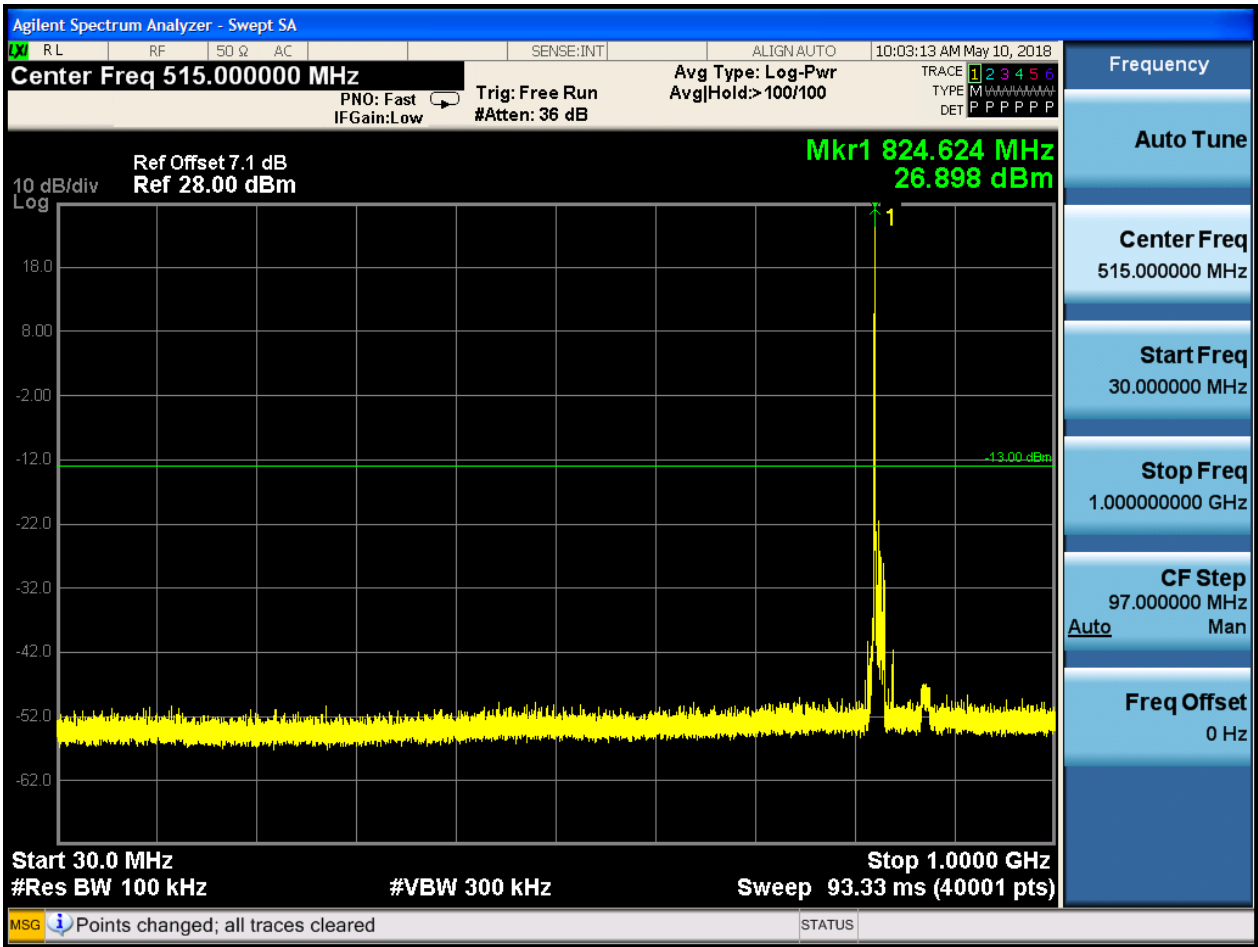
6.1.1.2.4 Test Bandwidth = 10

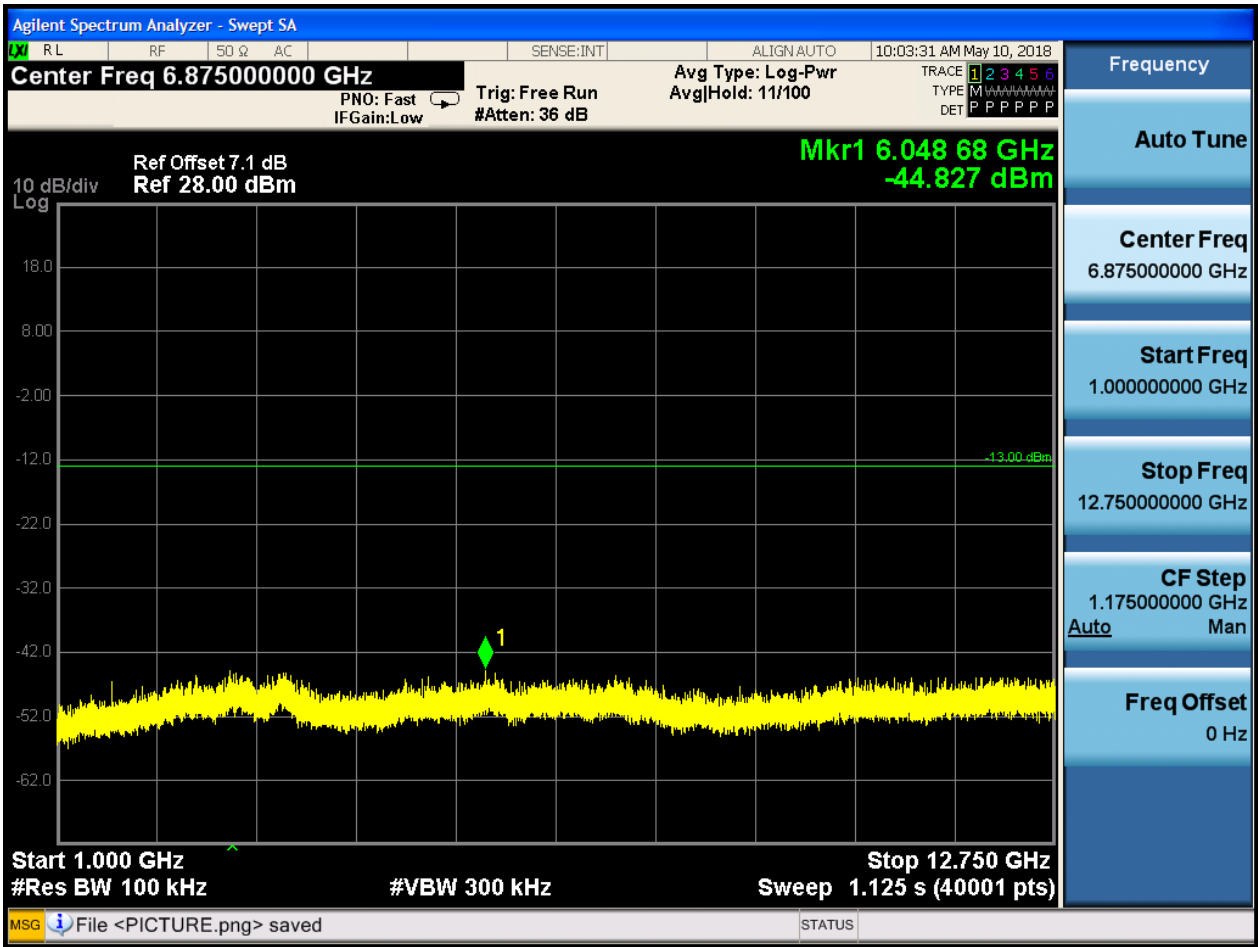
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





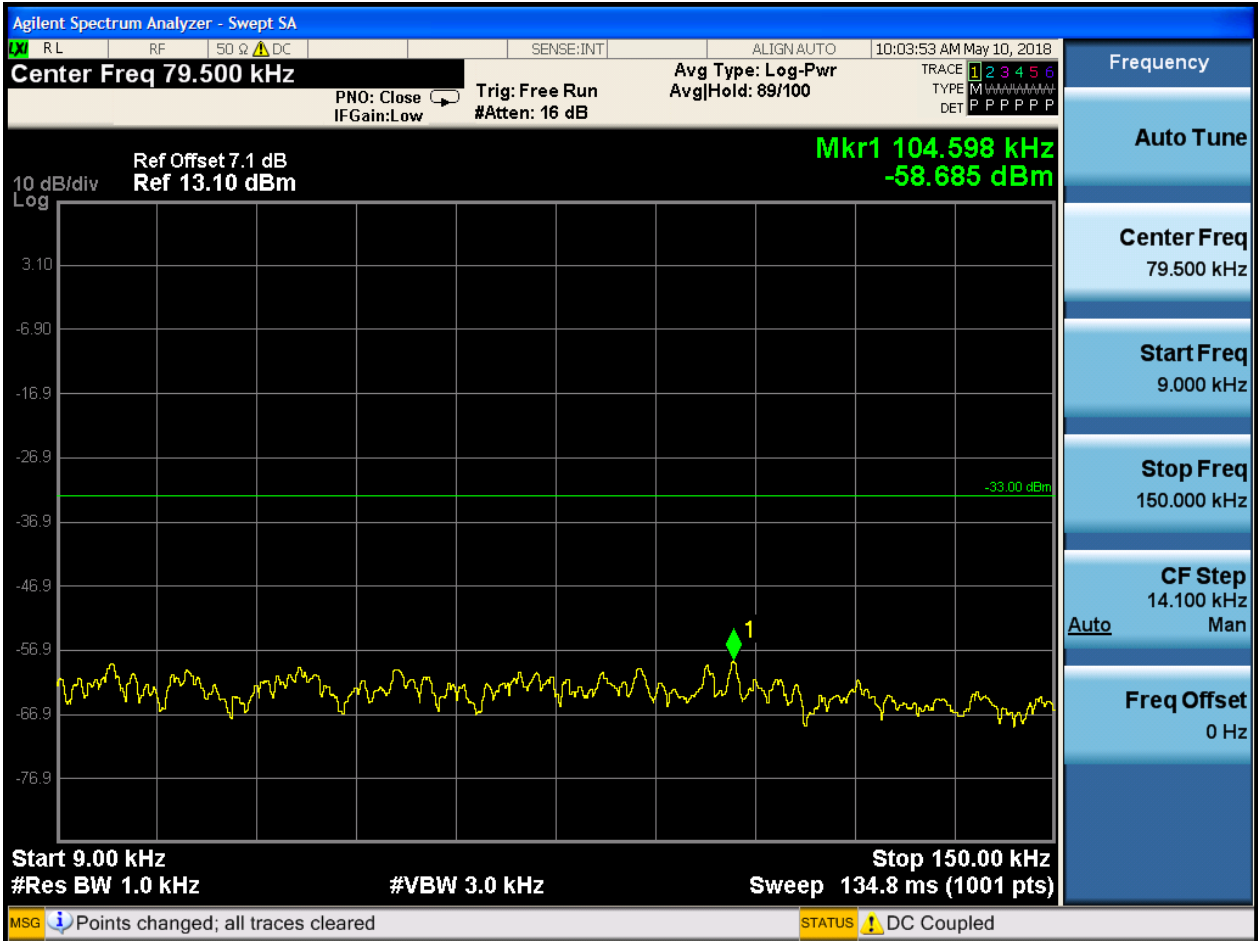




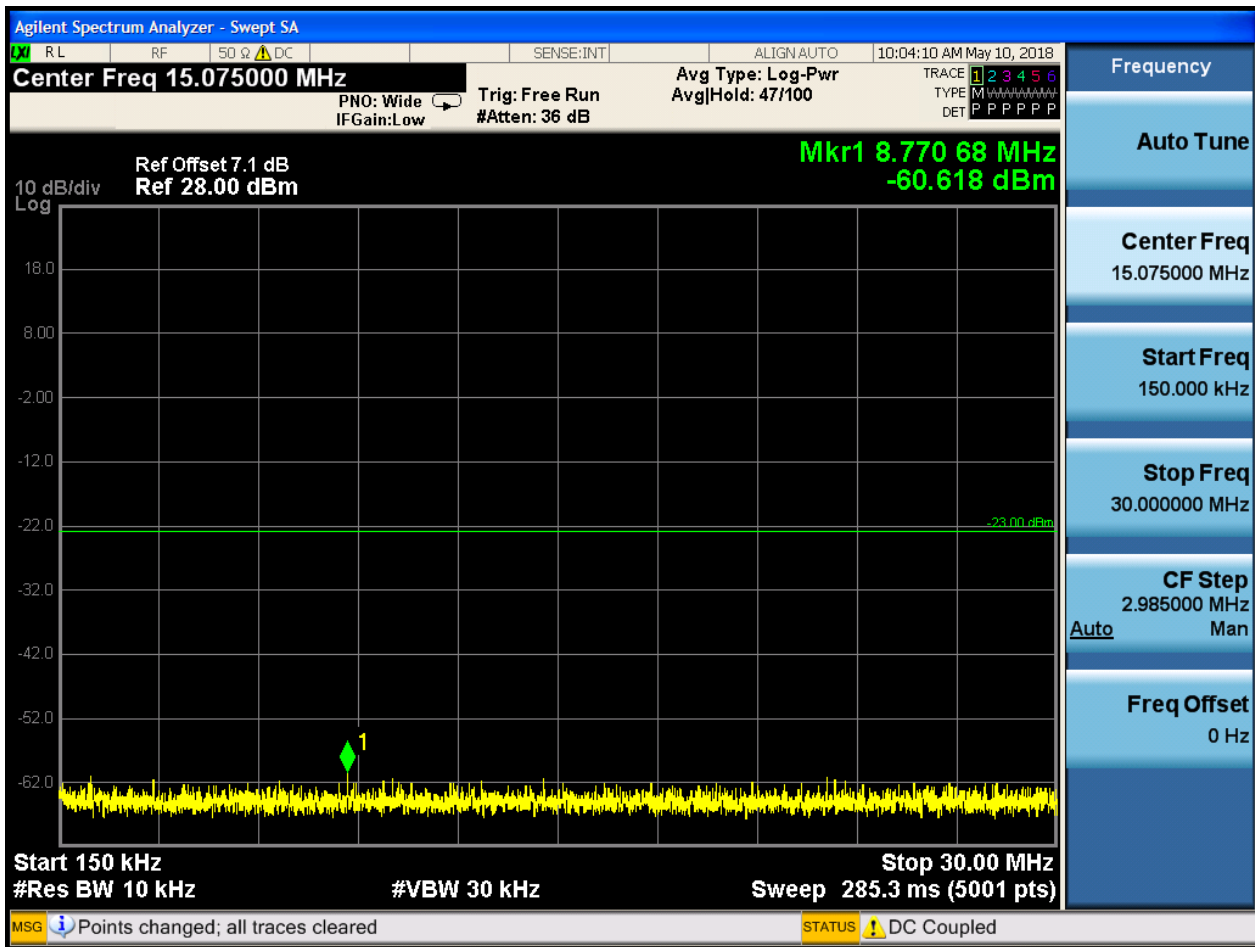


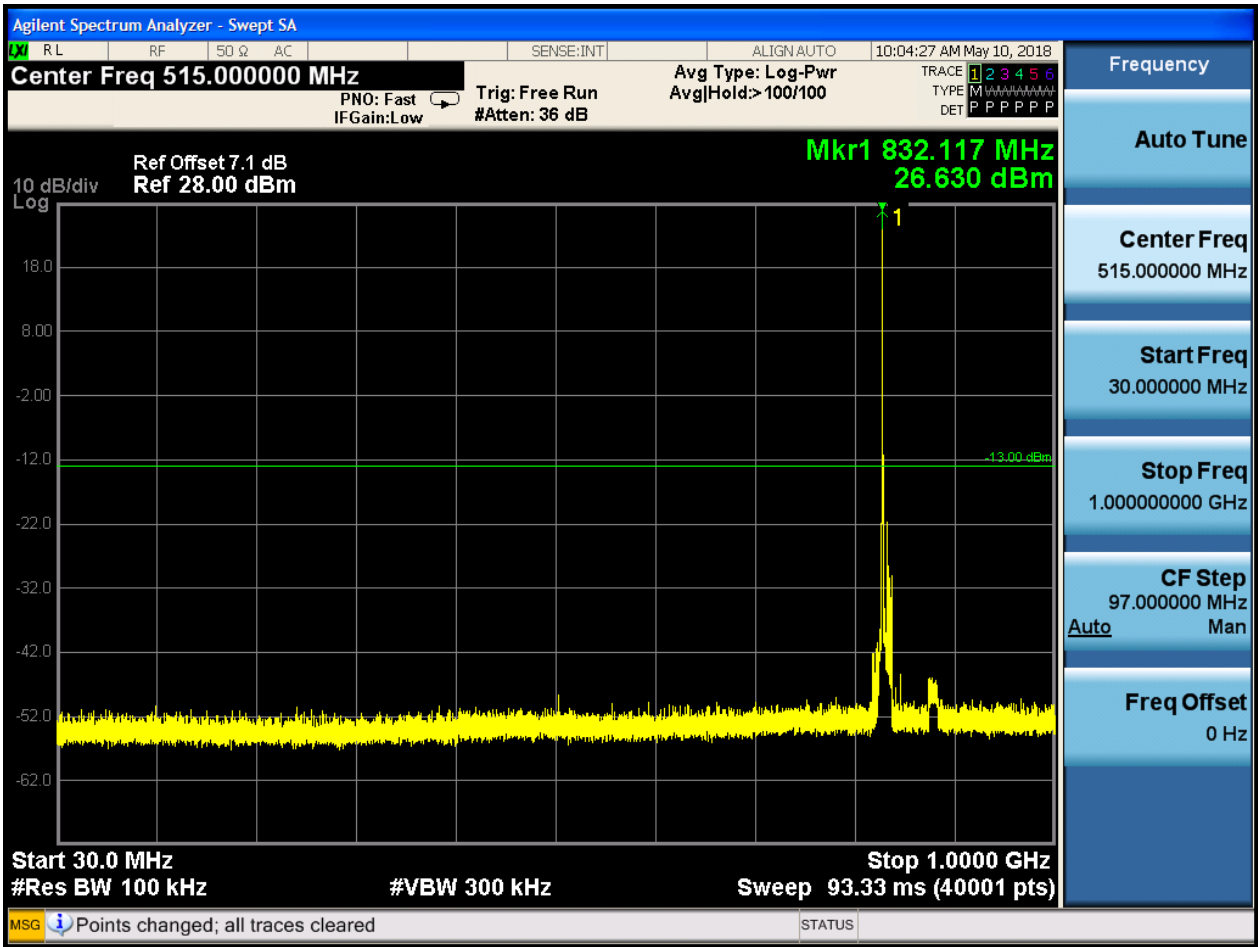
6.1.1.2.4.2 Test Channel = MCH

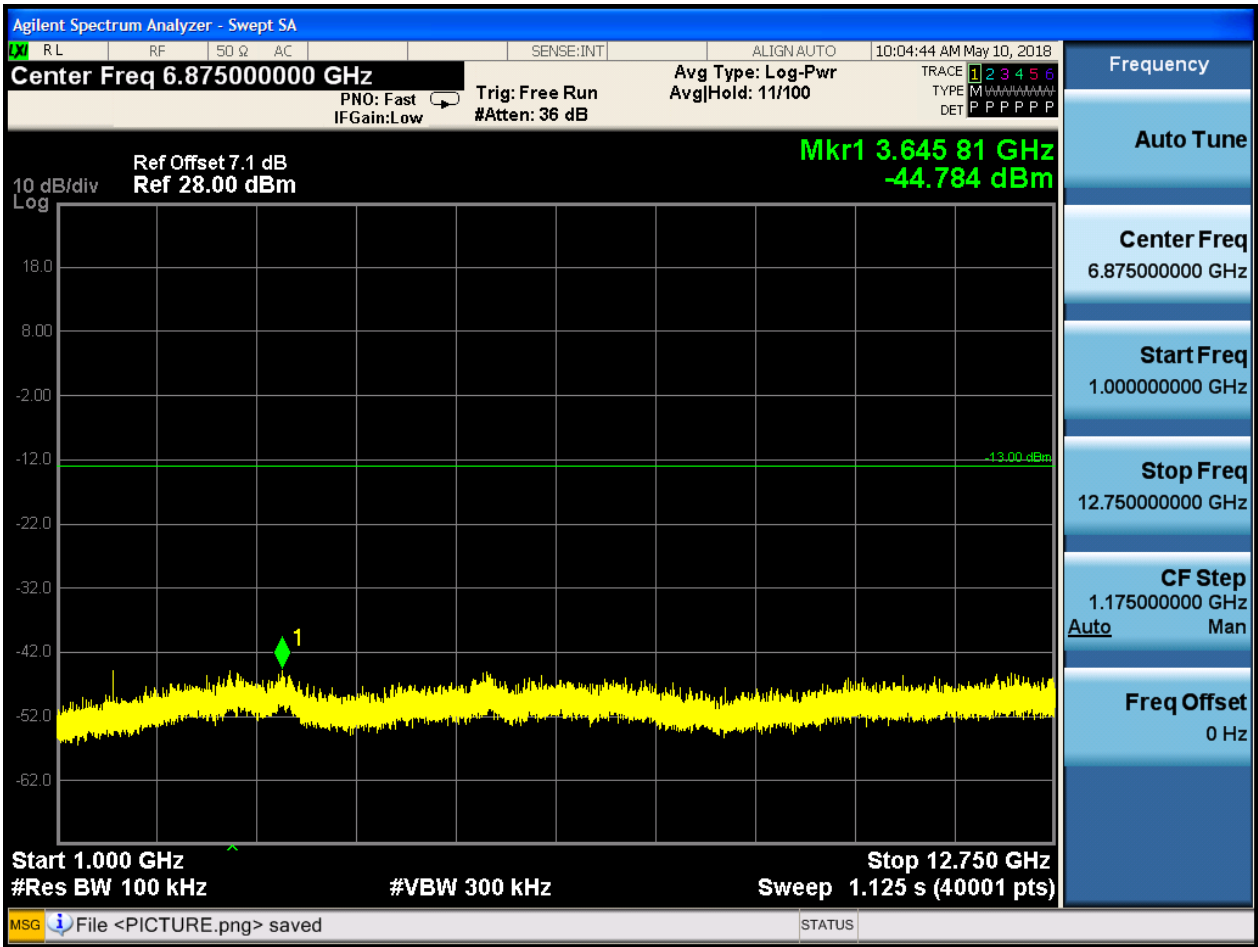
6.1.1.2.4.2.1 Test RB = RB1#0







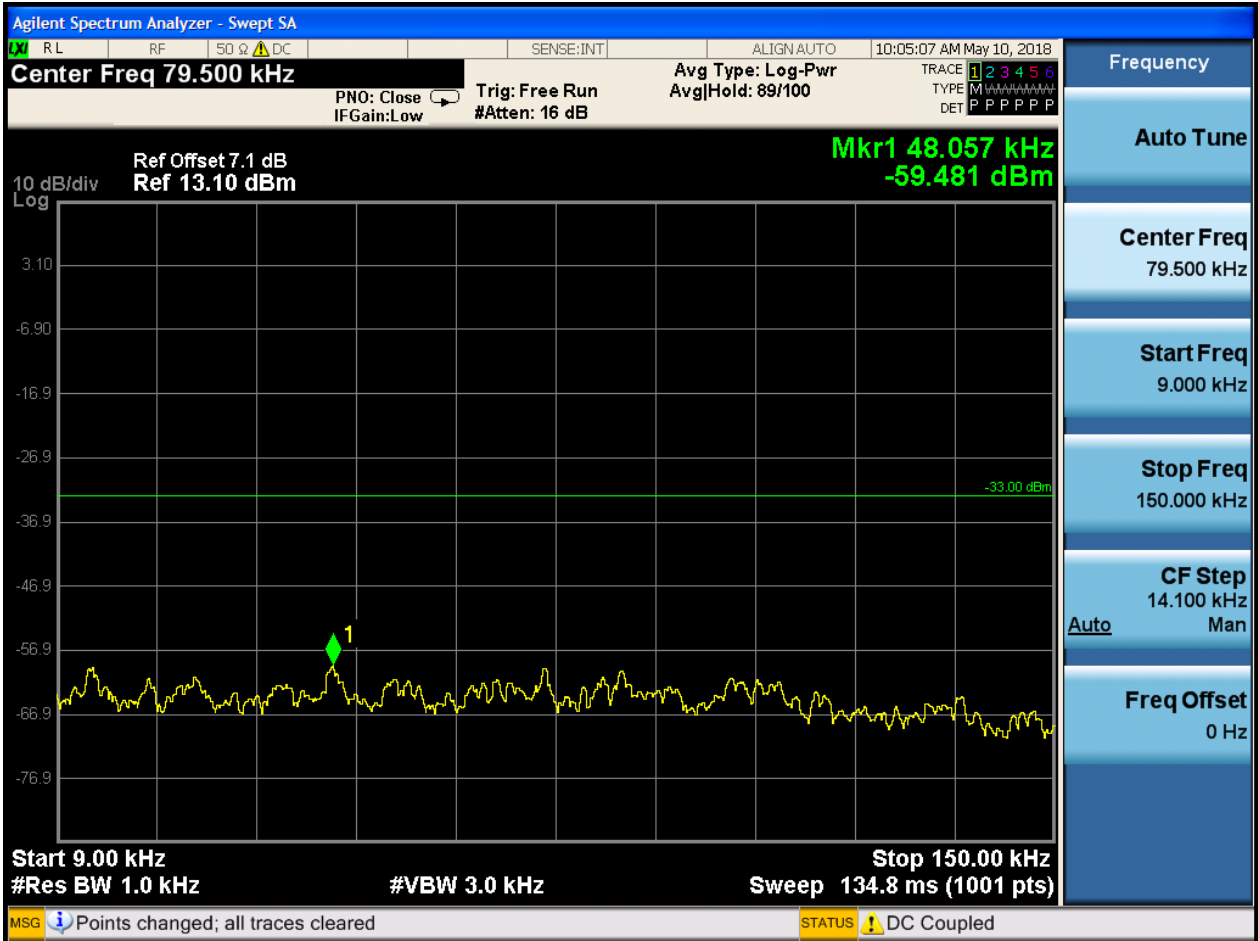


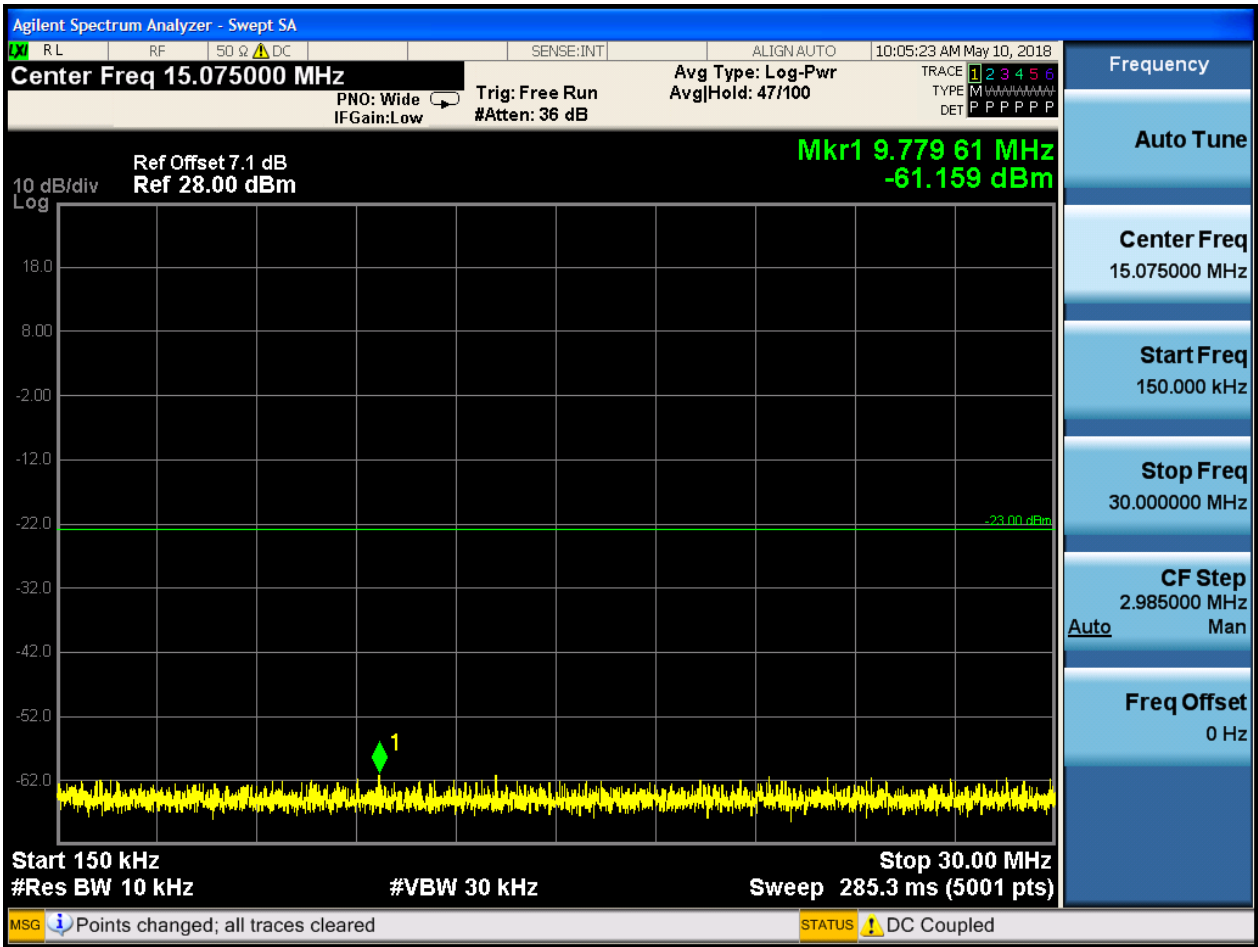


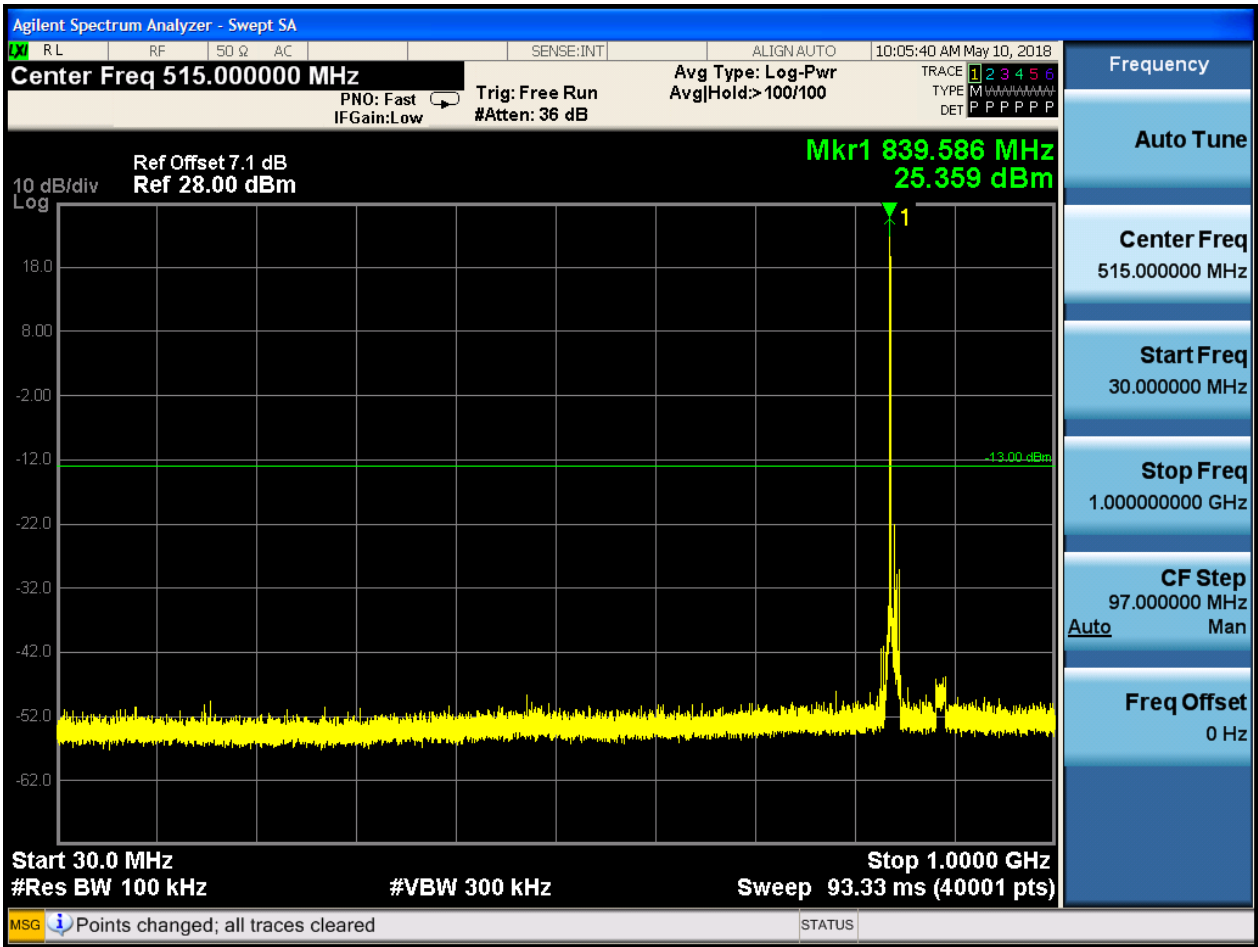


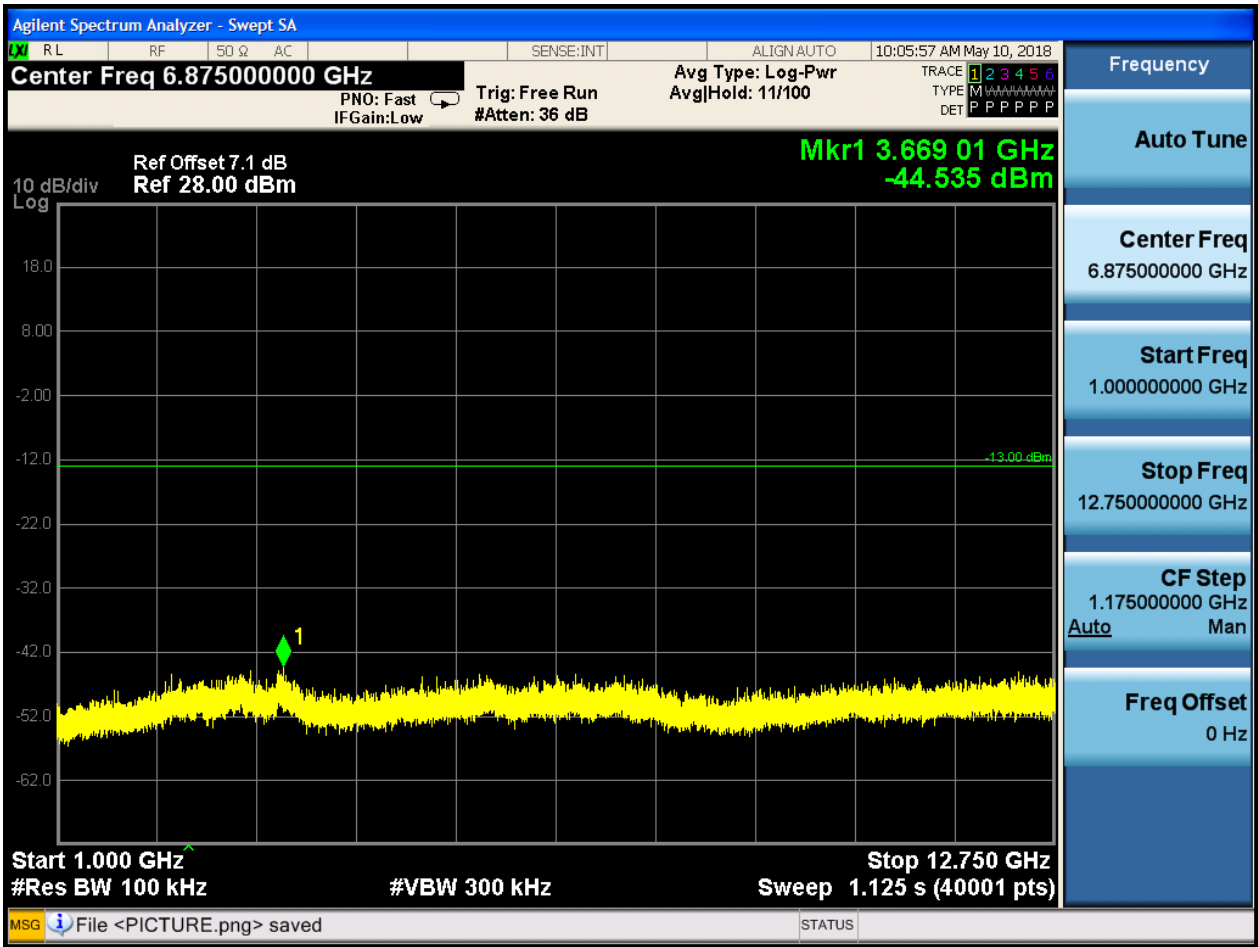
6.1.1.2.4.3 Test Channel = HCH

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, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 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

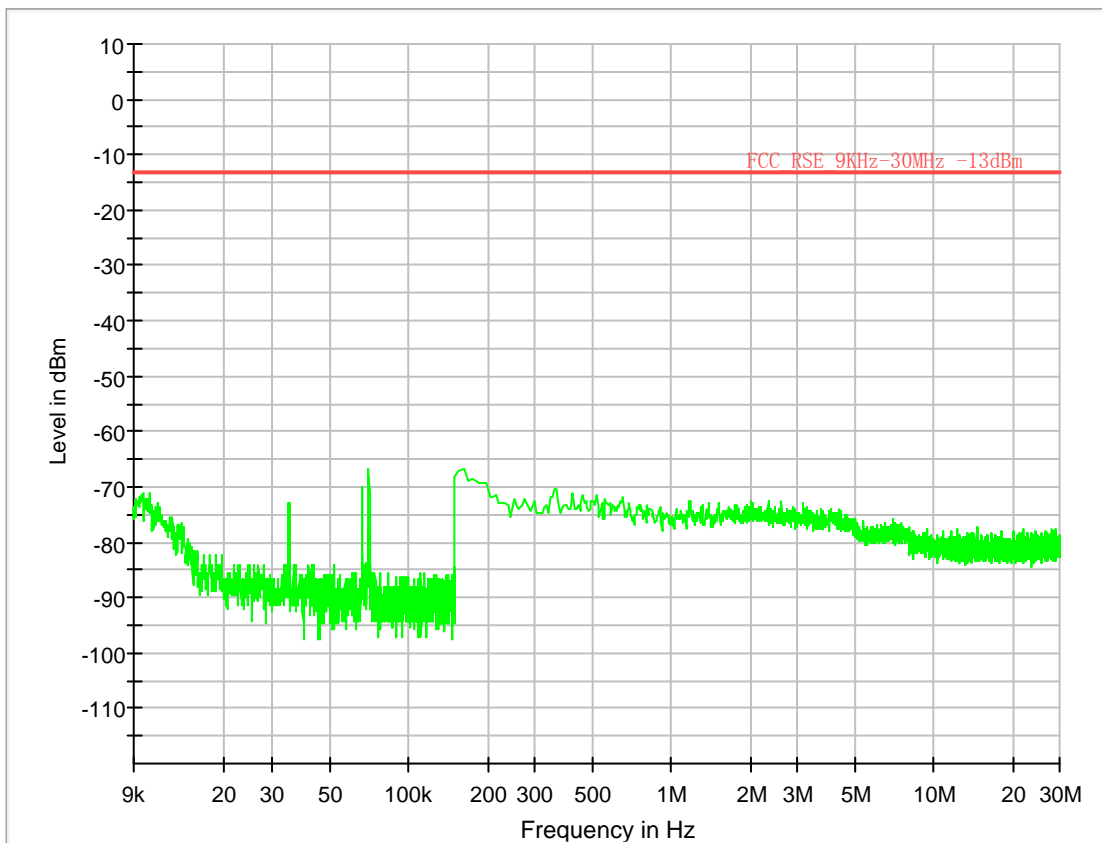


## Part I - Test Plots

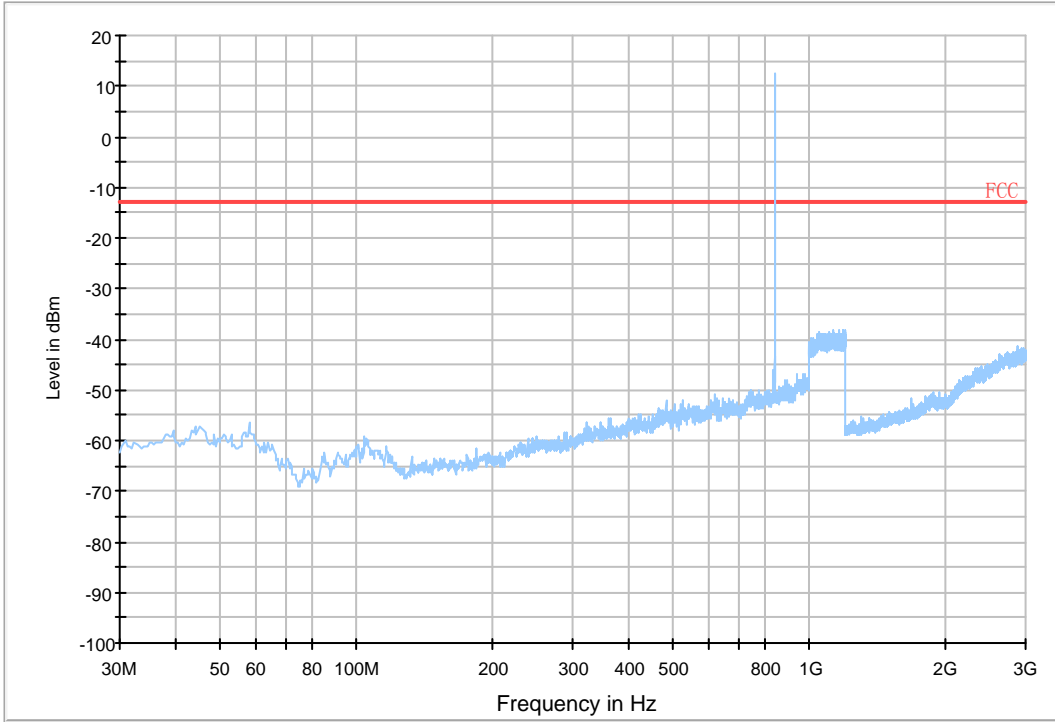
### 7.1 For LTE

#### 7.1.1 Test Band = BAND5

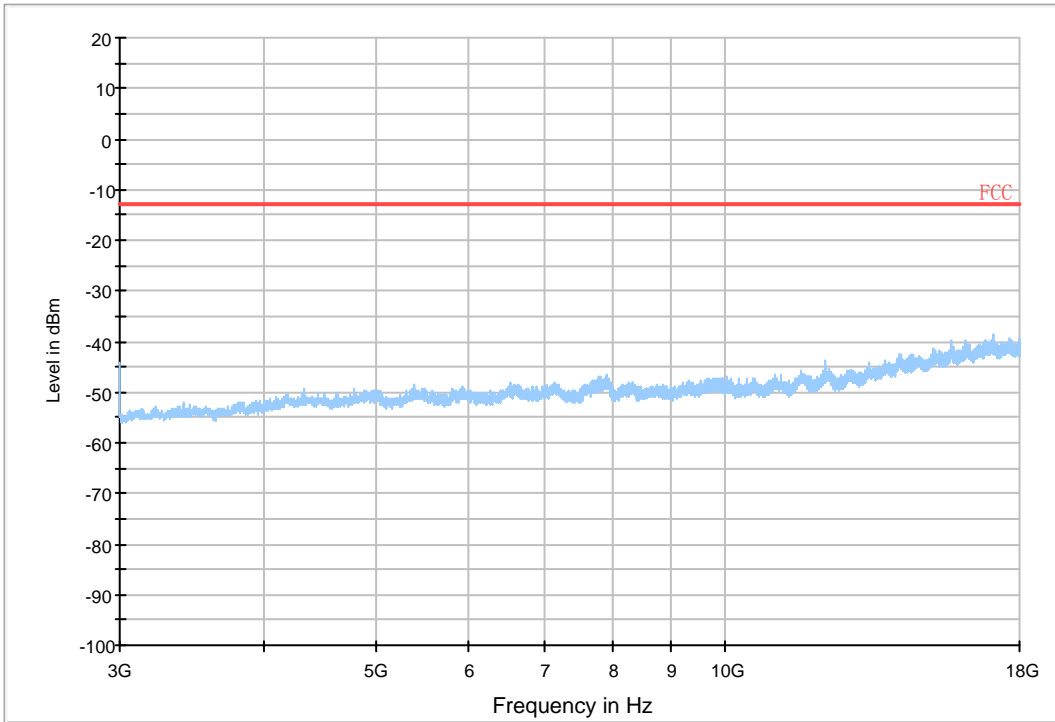
##### 7.1.1.1 Test Bandwidth = 1.4



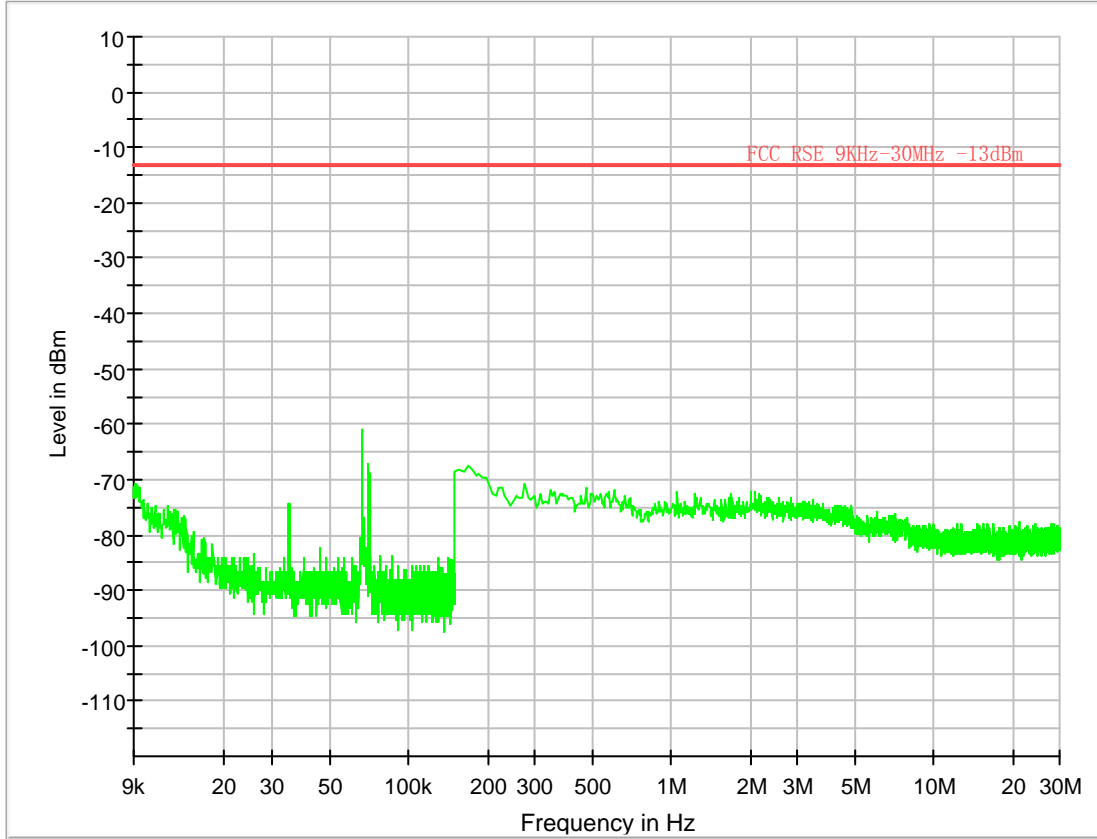
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_L



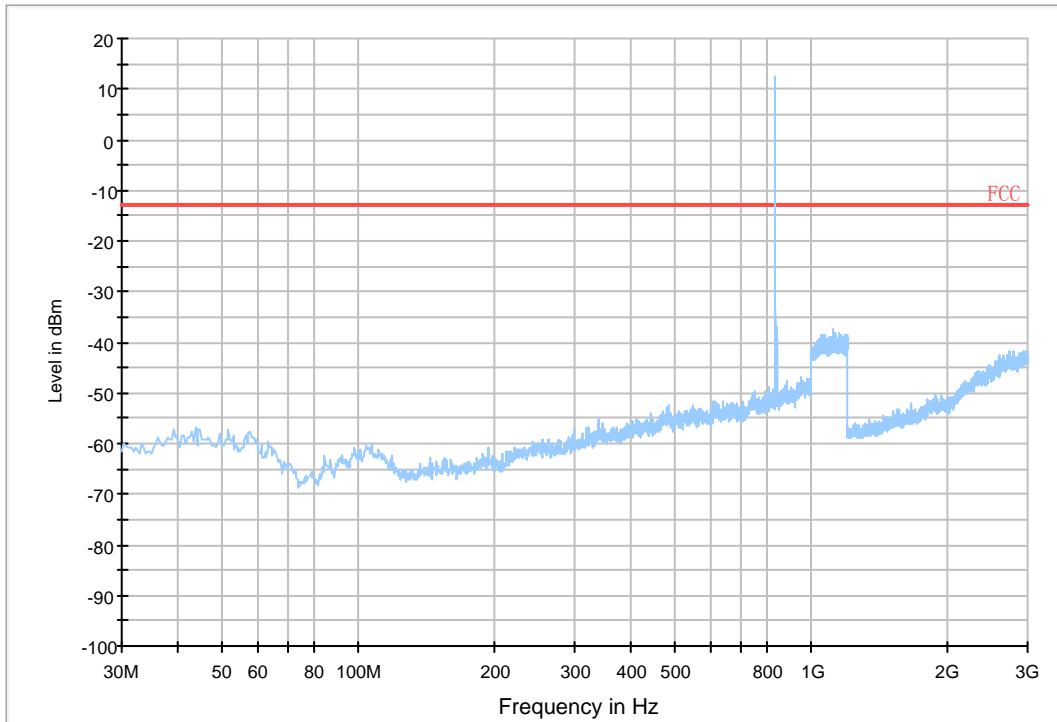
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_H



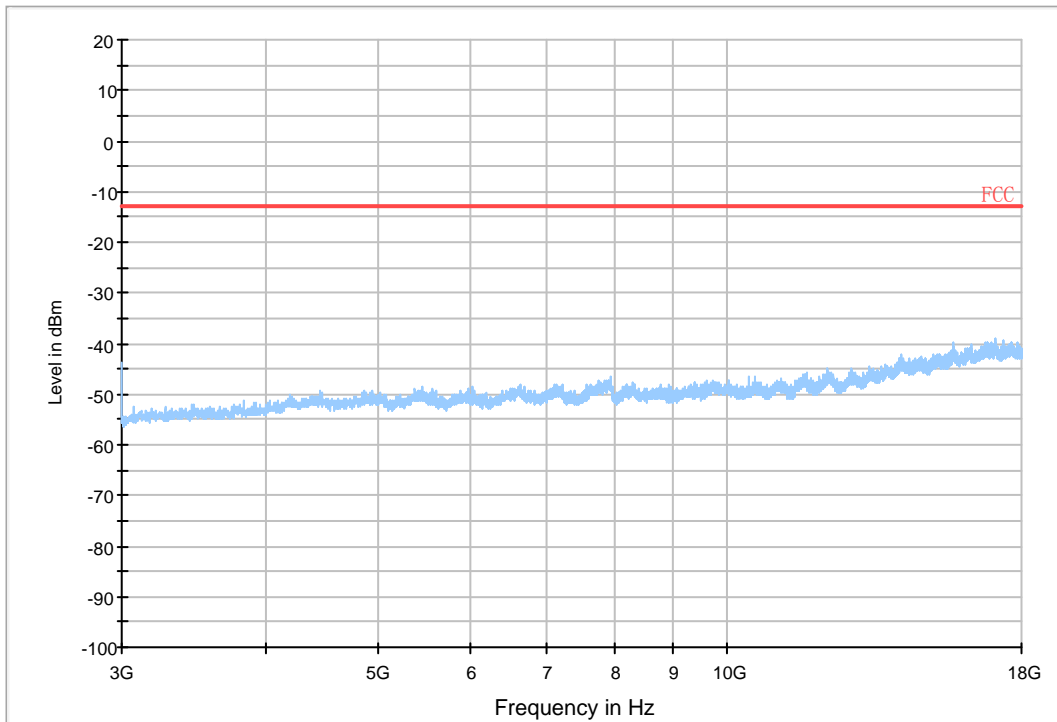
### 7.1.1.2 Test Bandwidth = 5



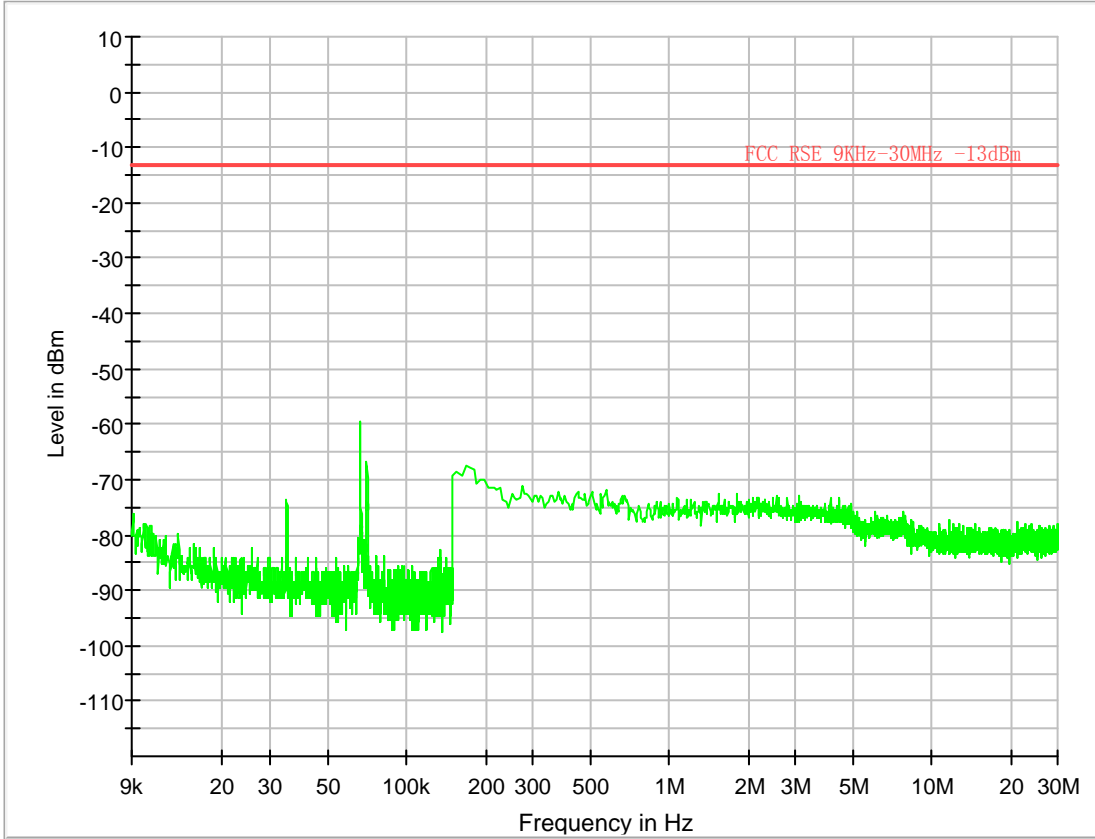
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_L



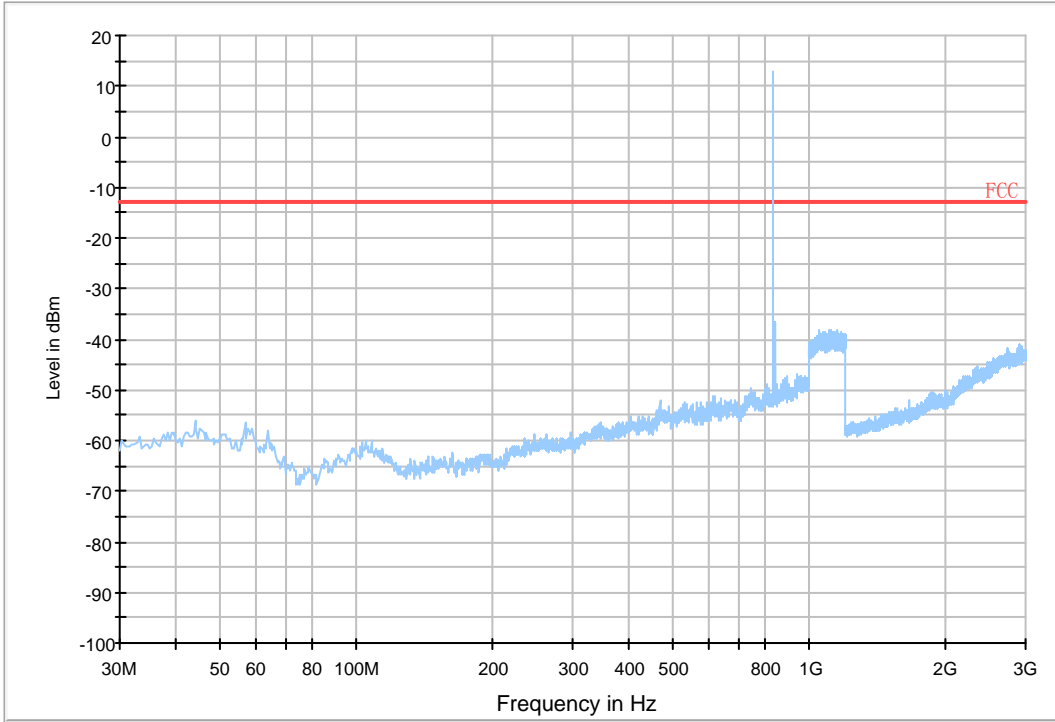
LTE FDD RSE-TX-DIRECTOR BELOW 1G\_H



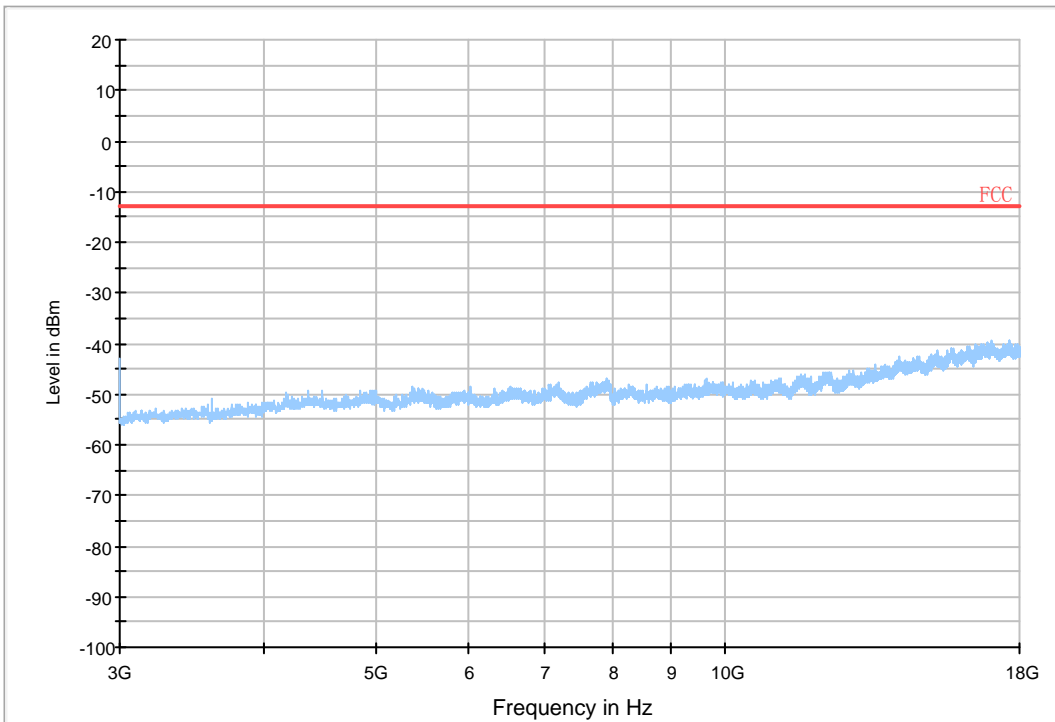
### 7.1.1.3 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G\_L



LTE FDD 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	-1.36	-0.00165	PASS
					VN	-1.26	-0.00153	PASS
					VH	-1.85	-0.00224	PASS
			MCH	TN	VL	-0.87	-0.00104	PASS
					VN	0.19	0.00023	PASS
					VH	-0.3	-0.00036	PASS
			HCH	TN	VL	-1.42	-0.00167	PASS
					VN	0.2	0.00024	PASS
					VH	-0.57	-0.00067	PASS
		3	LCH	TN	VL	-0.53	-0.00064	PASS
					VN	-0.19	-0.00023	PASS
					VH	13.75	0.01666	PASS
			MCH	TN	VL	0.2	0.00024	PASS
					VN	-1.23	-0.00147	PASS
					VH	0.57	0.00068	PASS
			HCH	TN	VL	-2.05	-0.00242	PASS
					VN	-0.62	-0.00073	PASS
					VH	-1.72	-0.00203	PASS
		5	LCH	TN	VL	-14.23	-0.01722	PASS
					VN	-15.99	-0.01935	PASS
					VH	-1.02	-0.00123	PASS
			MCH	TN	VL	-3.19	-0.00381	PASS
					VN	-2.23	-0.00267	PASS
					VH	-2.06	-0.00246	PASS
			HCH	TN	VL	-0.06	-0.00007	PASS
					VN	0.07	0.00008	PASS
					VH	-0.74	-0.00087	PASS
		10	LCH	TN	VL	-4.96	-0.00598	PASS
					VN	-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
	LTE/TM2		MCH	TN	VH	-5.26	-0.00634	PASS
					VL	-6.85	-0.00819	PASS
					VN	-1.27	-0.00152	PASS
			HCH	TN	VH	-7.4	-0.00885	PASS
					VL	-0.63	-0.00075	PASS
					VN	-0.27	-0.00032	PASS
		1.4	LCH	TN	VH	-0.56	-0.00066	PASS
					VL	-1.04	-0.00126	PASS
					VN	-1.2	-0.00146	PASS
			MCH	TN	VH	-1.69	-0.00205	PASS
					VL	-0.41	-0.00049	PASS
					VN	-0.69	-0.00082	PASS
		HCH	TN	VH	-0.73	-0.00087	PASS	
				VL	-1.32	-0.00156	PASS	
				VN	0.79	0.00093	PASS	
		3	LCH	TN	VH	0.39	0.00046	PASS
					VL	-0.19	-0.00023	PASS
					VN	11.52	0.01396	PASS
	MCH		TN	VH	-0.72	-0.00087	PASS	
				VL	-1.24	-0.00148	PASS	
				VN	-1.22	-0.00146	PASS	
	HCH	TN	VH	-0.59	-0.00071	PASS		
			VL	-2.56	-0.00302	PASS		
			VN	-2.5	-0.00295	PASS		
	5	LCH	TN	VH	-2.12	-0.0025	PASS	
				VL	-0.39	-0.00047	PASS	
				VN	-0.31	-0.00038	PASS	
		MCH	TN	VH	-0.74	-0.0009	PASS	
				VL	-4.49	-0.00537	PASS	
				VN	-3.71	-0.00444	PASS	
	HCH	TN	VH	-2.95	-0.00353	PASS		
			VL	-0.9	-0.00106	PASS		
			VN	-0.1	-0.00012	PASS		
	10	LCH	TN	VH	0.36	0.00043	PASS	
				VL	-6.68	-0.00806	PASS	
				VN	-10.37	-0.01251	PASS	
		MCH	TN	VH	-7.05	-0.0085	PASS	
				VL	-1.9	-0.00227	PASS	
				VN	2.88	0.00344	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	-3.35	-0.004	PASS
			HCH	TN	VL	-0.33	-0.00039	PASS
					VN	-0.09	-0.00011	PASS
					VH	-0.79	-0.00094	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	-1.89	-0.00229	PASS
					-20	-0.41	-0.0005	PASS
					-10	-1.85	-0.00224	PASS
					0	-1.69	-0.00205	PASS
					10	-1.14	-0.00138	PASS
					20	-1.27	-0.00154	PASS
					30	-2.03	-0.00246	PASS
			40	-1.82	-0.00221	PASS		
			50	-0.73	-0.00089	PASS		
			MCH	VN	-30	-1.85	-0.00221	PASS
					-20	-1.04	-0.00124	PASS
					-10	-1.27	-0.00152	PASS
					0	-1.17	-0.0014	PASS
					10	-0.87	-0.00104	PASS
		20			-0.09	-0.00011	PASS	
		30			0	0	PASS	
		HCH	VN	-30	-0.51	-0.0006	PASS	
				-20	0.53	0.00062	PASS	
				-10	-1.87	-0.0022	PASS	
				0	-0.19	-0.00022	PASS	
				10	-0.43	-0.00051	PASS	
				20	2.13	0.00251	PASS	
				30	-0.17	-0.0002	PASS	
		40	1.44	0.0017	PASS			
		50	0.26	0.00031	PASS			
		3	LCH	VN	-30	-13.5	-0.01635	PASS
					-20	0.96	0.00116	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-10	0.73	0.00088	PASS	
					0	1.24	0.0015	PASS	
					10	0.2	0.00024	PASS	
					20	-5.38	-0.00652	PASS	
					30	0.96	0.00116	PASS	
					40	0.94	0.00114	PASS	
					50	0.7	0.00085	PASS	
			MCH	VN	-30	-0.94	-0.00112	PASS	
					-20	-2.1	-0.00251	PASS	
					-10	-1.42	-0.0017	PASS	
					0	-1.34	-0.0016	PASS	
					10	-2	-0.00239	PASS	
					20	0.57	0.00068	PASS	
					30	-0.51	-0.00061	PASS	
					40	-0.79	-0.00094	PASS	
			HCH	VN	-30	-1.99	-0.00235	PASS	
					-20	-1.24	-0.00146	PASS	
					-10	-1.26	-0.00149	PASS	
					0	-1.56	-0.00184	PASS	
					10	-1.92	-0.00227	PASS	
					20	-0.1	-0.00012	PASS	
					30	-1.12	-0.00132	PASS	
					40	-1.1	-0.0013	PASS	
			5	LCH	VN	-30	-5.06	-0.00612	PASS
						-20	-11.4	-0.01379	PASS
						-10	-4.52	-0.00547	PASS
						0	-10.51	-0.01272	PASS
						10	-11	-0.01331	PASS
						20	-3.5	-0.00423	PASS
						30	-1.79	-0.00217	PASS
						40	-10.73	-0.01298	PASS
				MCH	VN	-30	-3.22	-0.00385	PASS
						-20	-1.56	-0.00186	PASS
						-10	-7	-0.00837	PASS
						0	-2.73	-0.00326	PASS
						10	-2.4	-0.00287	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					20	-4.82	-0.00576	PASS		
					30	-1.79	-0.00214	PASS		
					40	-0.94	-0.00112	PASS		
					50	-2.09	-0.0025	PASS		
			HCH	VN	-30	-0.24	-0.00028	PASS		
					-20	0.76	0.0009	PASS		
					-10	0.4	0.00047	PASS		
					0	-2.45	-0.00289	PASS		
					10	-1.8	-0.00213	PASS		
					20	-1.63	-0.00193	PASS		
					30	-0.56	-0.00066	PASS		
					40	-2.45	-0.00289	PASS		
					50	-0.92	-0.00109	PASS		
					LCH	VN	-30	-11.54	-0.01392	PASS
							-20	0.73	0.00088	PASS
							-10	-4.51	-0.00544	PASS
		0	-9.5	-0.01146			PASS			
		10	-5.19	-0.00626			PASS			
		20	11.6	0.01399			PASS			
		30	-1.93	-0.00233			PASS			
		40	-4.99	-0.00602			PASS			
		MCH	VN	50	-2.37	-0.00286	PASS			
				-30	-5.56	-0.00665	PASS			
				-20	-4.31	-0.00515	PASS			
				-10	-6.69	-0.008	PASS			
				0	-2.53	-0.00302	PASS			
				10	-0.54	-0.00065	PASS			
				20	-6.29	-0.00752	PASS			
				30	-7.14	-0.00854	PASS			
		HCH	VN	40	-3	-0.00359	PASS			
				50	-2.6	-0.00311	PASS			
				-30	-0.84	-0.001	PASS			
				-20	0.07	0.00008	PASS			
				-10	-2.6	-0.00308	PASS			
				0	0.13	0.00015	PASS			
				10	-5.09	-0.00603	PASS			
				20	-1.02	-0.00121	PASS			
		30	-1.39	-0.00165	PASS					
		40	-2.09	-0.00248	PASS					
		10					-30	-11.54	-0.01392	PASS
-20	0.73						0.00088	PASS		
-10	-4.51						-0.00544	PASS		
0	-9.5						-0.01146	PASS		
LCH	VN				10	-5.19	-0.00626	PASS		
					20	11.6	0.01399	PASS		
					30	-1.93	-0.00233	PASS		
					40	-4.99	-0.00602	PASS		
MCH	VN			50	-2.37	-0.00286	PASS			
				-30	-5.56	-0.00665	PASS			
				-20	-4.31	-0.00515	PASS			
				-10	-6.69	-0.008	PASS			
HCH	VN			0	-2.53	-0.00302	PASS			
				10	-0.54	-0.00065	PASS			
		20	-6.29	-0.00752	PASS					
		30	-7.14	-0.00854	PASS					
		40	-3	-0.00359	PASS					
		50	-2.6	-0.00311	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	50	-0.37	-0.00044	PASS
					-30	-0.77	-0.00093	PASS
					-20	-1.16	-0.00141	PASS
					-10	-1.97	-0.00239	PASS
					0	-1.42	-0.00172	PASS
					10	-1.33	-0.00161	PASS
					20	-1.43	-0.00173	PASS
					30	-1.2	-0.00146	PASS
					40	-1.87	-0.00227	PASS
			50	-1.75	-0.00212	PASS		
			MCH	VN	-30	-1.99	-0.00238	PASS
					-20	-0.36	-0.00043	PASS
					-10	-0.43	-0.00051	PASS
					0	-0.2	-0.00024	PASS
					10	-0.87	-0.00104	PASS
					20	-1.32	-0.00158	PASS
					30	-1.62	-0.00194	PASS
					40	-0.23	-0.00027	PASS
		50			-1.82	-0.00218	PASS	
		HCH	VN	-30	0.5	0.00059	PASS	
				-20	-1.56	-0.00184	PASS	
				-10	1.23	0.00145	PASS	
				0	1.19	0.0014	PASS	
				10	-1.97	-0.00232	PASS	
				20	-4.25	-0.00501	PASS	
				30	0.93	0.0011	PASS	
				40	-3.43	-0.00404	PASS	
				50	-7.38	-0.0087	PASS	
		3	LCH	VN	-30	15.88	0.01924	PASS
					-20	15.94	0.01931	PASS
					-10	-0.8	-0.00097	PASS
					0	-0.96	-0.00116	PASS
					10	-0.51	-0.00062	PASS
					20	-0.3	-0.00036	PASS
					30	-0.07	-0.00008	PASS
					40	43.42	0.0526	PASS
50	7.45				0.00902	PASS		
MCH	VN		-30	-0.56	-0.00067	PASS		
		-20	-1.07	-0.00128	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-10	-1.27	-0.00152	PASS	
					0	-2.32	-0.00277	PASS	
					10	-1.32	-0.00158	PASS	
					20	-1.37	-0.00164	PASS	
					30	-0.64	-0.00077	PASS	
					40	-1.4	-0.00167	PASS	
					50	-0.24	-0.00029	PASS	
			HCH	VN	-30	-1.77	-0.00209	PASS	
					-20	-1.93	-0.00228	PASS	
					-10	-2.9	-0.00342	PASS	
					0	-1.12	-0.00132	PASS	
					10	-0.59	-0.0007	PASS	
					20	-1	-0.00118	PASS	
					30	-0.4	-0.00047	PASS	
					40	-1.5	-0.00177	PASS	
		LCH	VN	-30	-4.12	-0.00498	PASS		
				-20	-2.83	-0.00342	PASS		
				-10	-6.21	-0.00751	PASS		
				0	-14.61	-0.01768	PASS		
				10	-6.81	-0.00824	PASS		
				20	-0.69	-0.00083	PASS		
				30	-4.19	-0.00507	PASS		
				40	-6.42	-0.00777	PASS		
				50	-3.39	-0.0041	PASS		
				MCH	VN	-30	-2.39	-0.00286	PASS
						-20	-2.62	-0.00313	PASS
						-10	-2.07	-0.00247	PASS
		0	-2.85			-0.00341	PASS		
		10	-2.03			-0.00243	PASS		
		20	-2.05			-0.00245	PASS		
		30	-3			-0.00359	PASS		
		40	-2.26			-0.0027	PASS		
		HCH	VN	50	-3.03	-0.00362	PASS		
				-30	-1.16	-0.00137	PASS		
				-20	-2.13	-0.00252	PASS		
				-10	0.01	0.00001	PASS		
				0	-0.16	-0.00019	PASS		
		10	-0.87	-0.00103	PASS				

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					20	-0.13	-0.00015	PASS		
					30	0	0	PASS		
					40	-0.5	-0.00059	PASS		
					50	-0.03	-0.00004	PASS		
		10	LCH	VN	-30	0.51	0.00062	PASS		
					-20	3.5	0.00422	PASS		
					-10	6.09	0.00735	PASS		
					0	4.11	0.00496	PASS		
					10	-6.84	-0.00825	PASS		
					20	-3.81	-0.0046	PASS		
					30	-7.07	-0.00853	PASS		
					40	-4.35	-0.00525	PASS		
					50	-1.34	-0.00162	PASS		
					MCH	VN	-30	-0.53	-0.00063	PASS
							-20	0.2	0.00024	PASS
							-10	-4.89	-0.00585	PASS
			0	-7.48			-0.00894	PASS		
			10	-0.4			-0.00048	PASS		
			20	-4.65			-0.00556	PASS		
			30	-4.66			-0.00557	PASS		
			40	-2.52			-0.00301	PASS		
			HCH	VN	-30	-0.13	-0.00015	PASS		
					-20	-0.16	-0.00019	PASS		
					-10	-1.24	-0.00147	PASS		
					0	-1.36	-0.00161	PASS		
					10	-0.62	-0.00073	PASS		
					20	-0.47	-0.00056	PASS		
					30	-0.87	-0.00103	PASS		
					40	-1.09	-0.00129	PASS		
			50	-0.63	-0.00075	PASS				

END