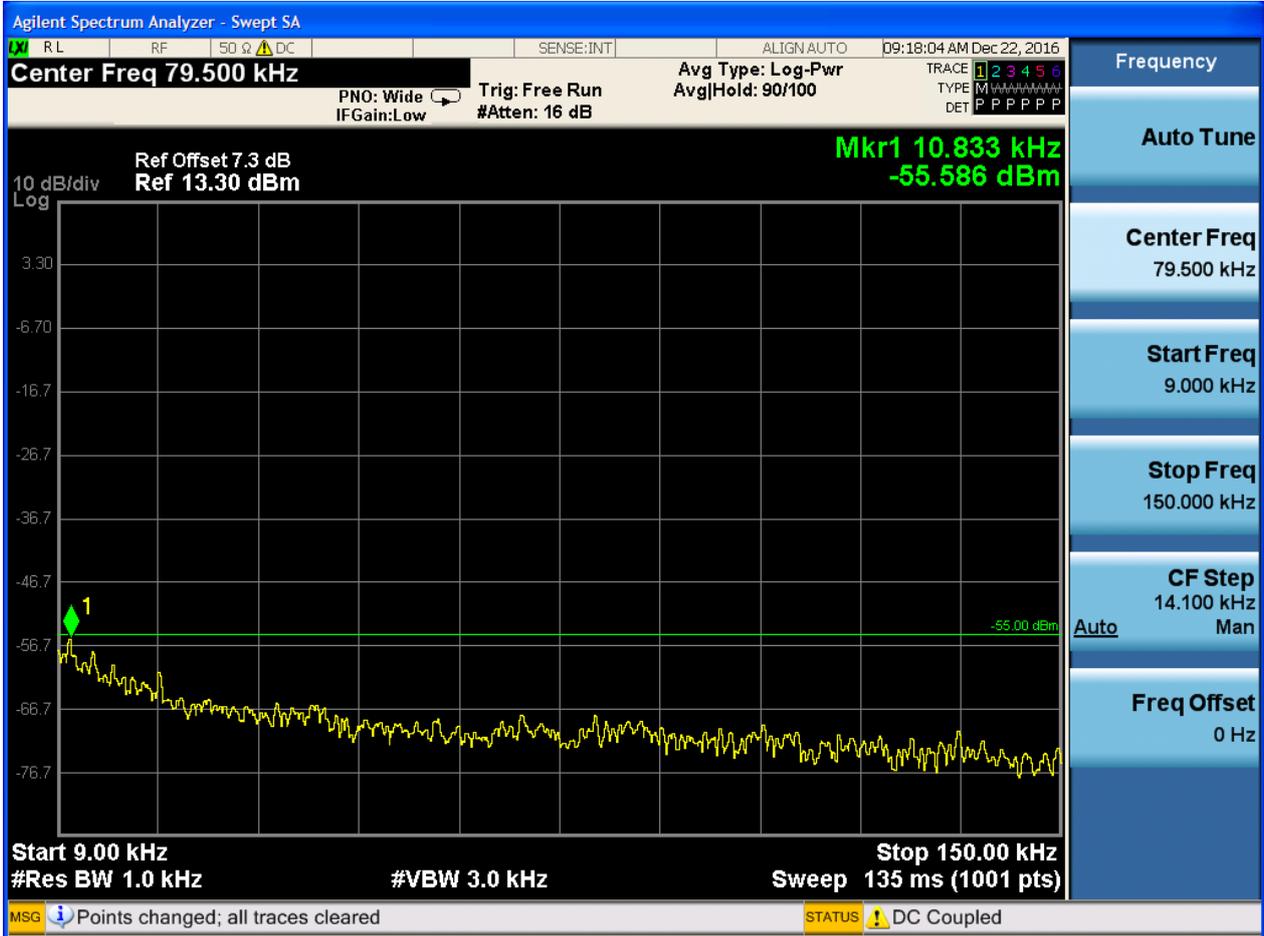
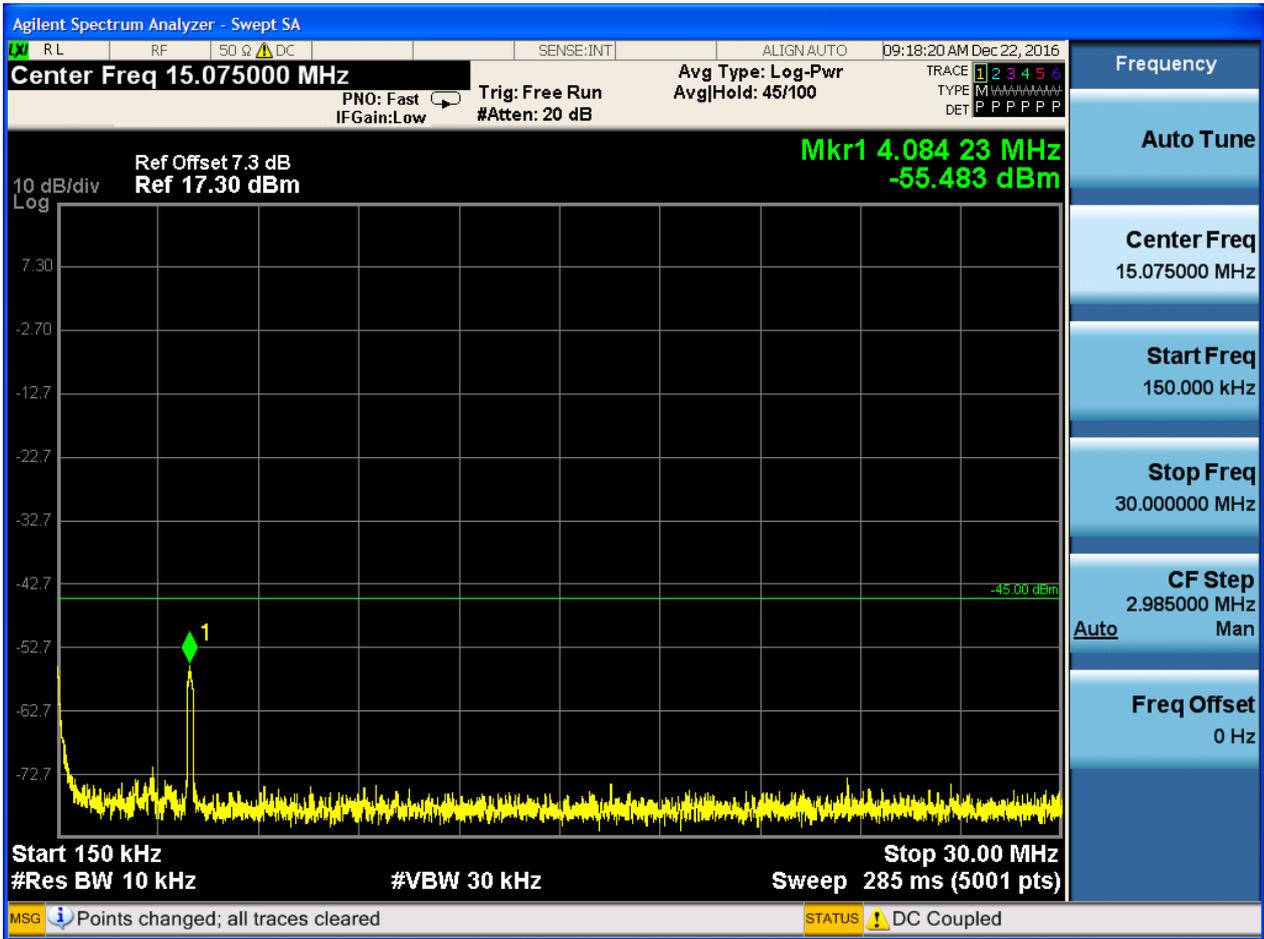


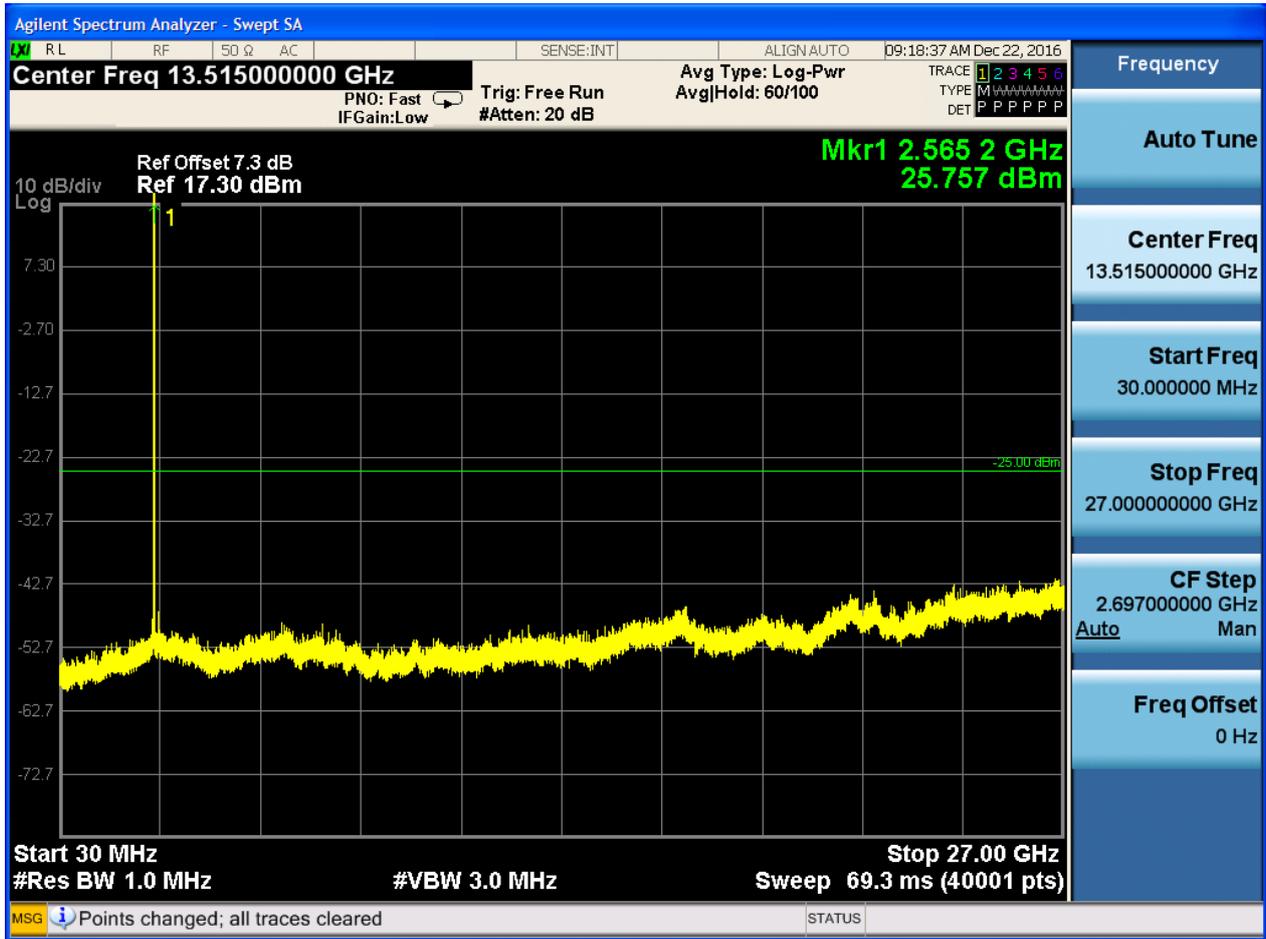


6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0





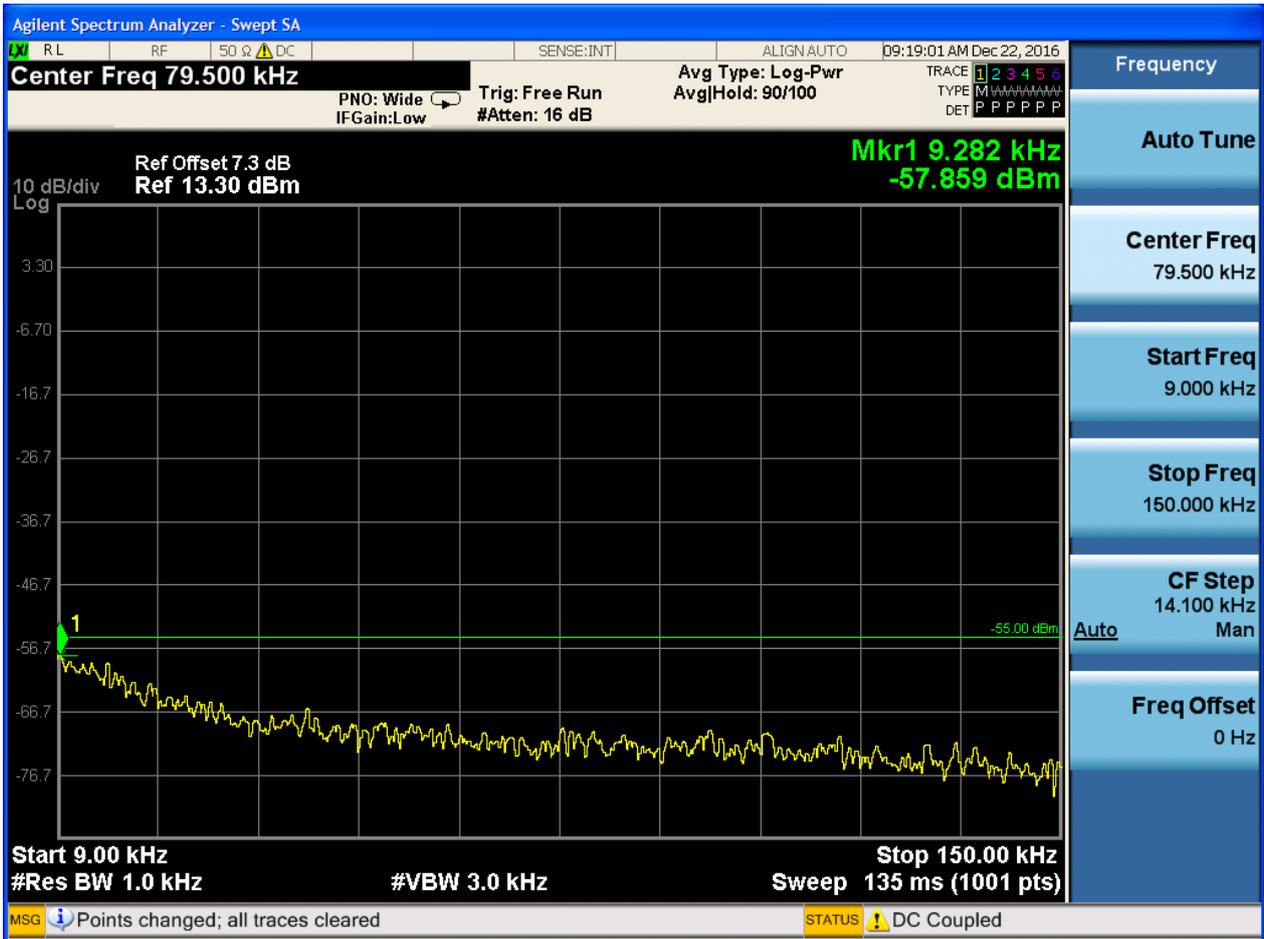


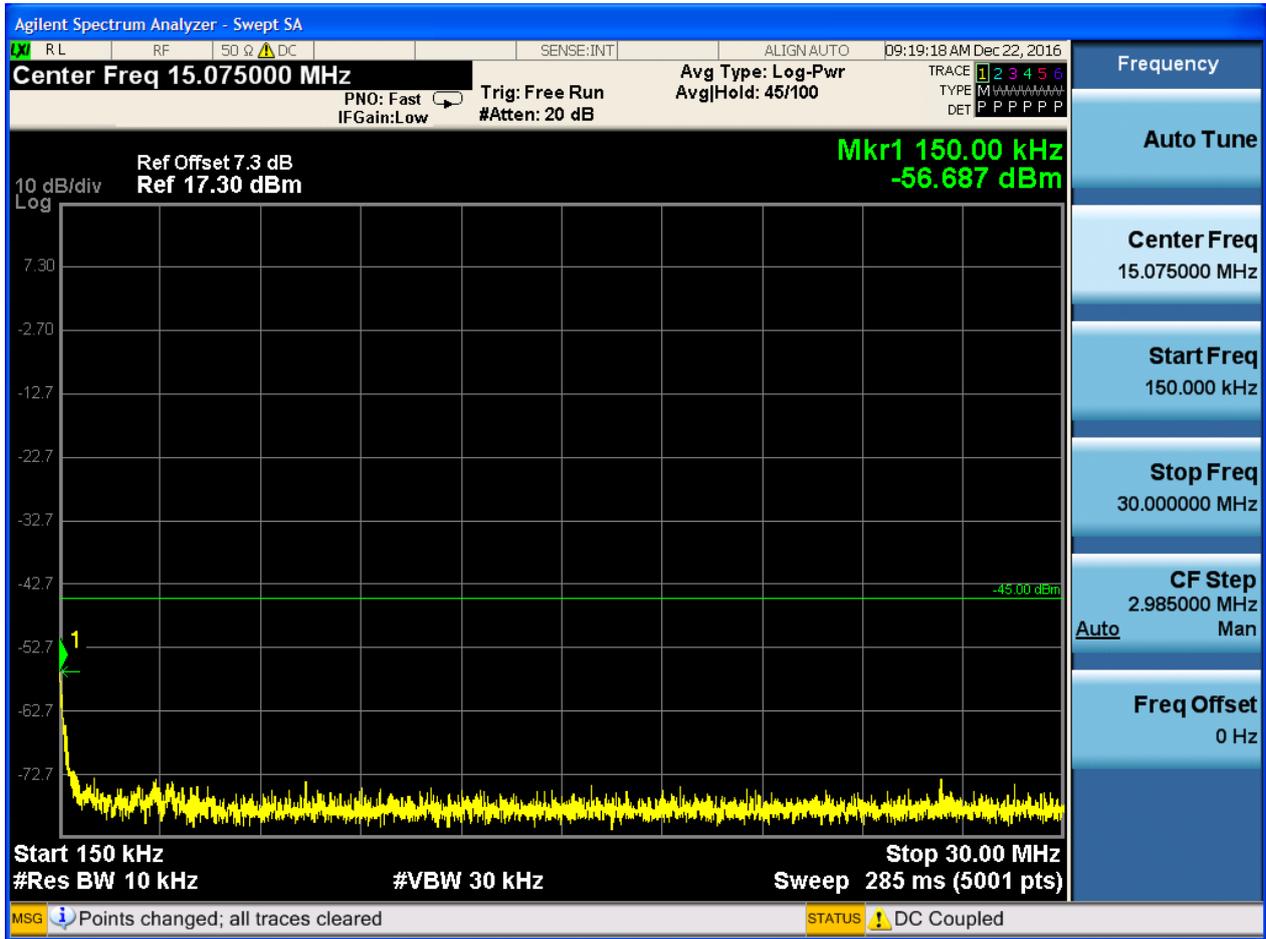


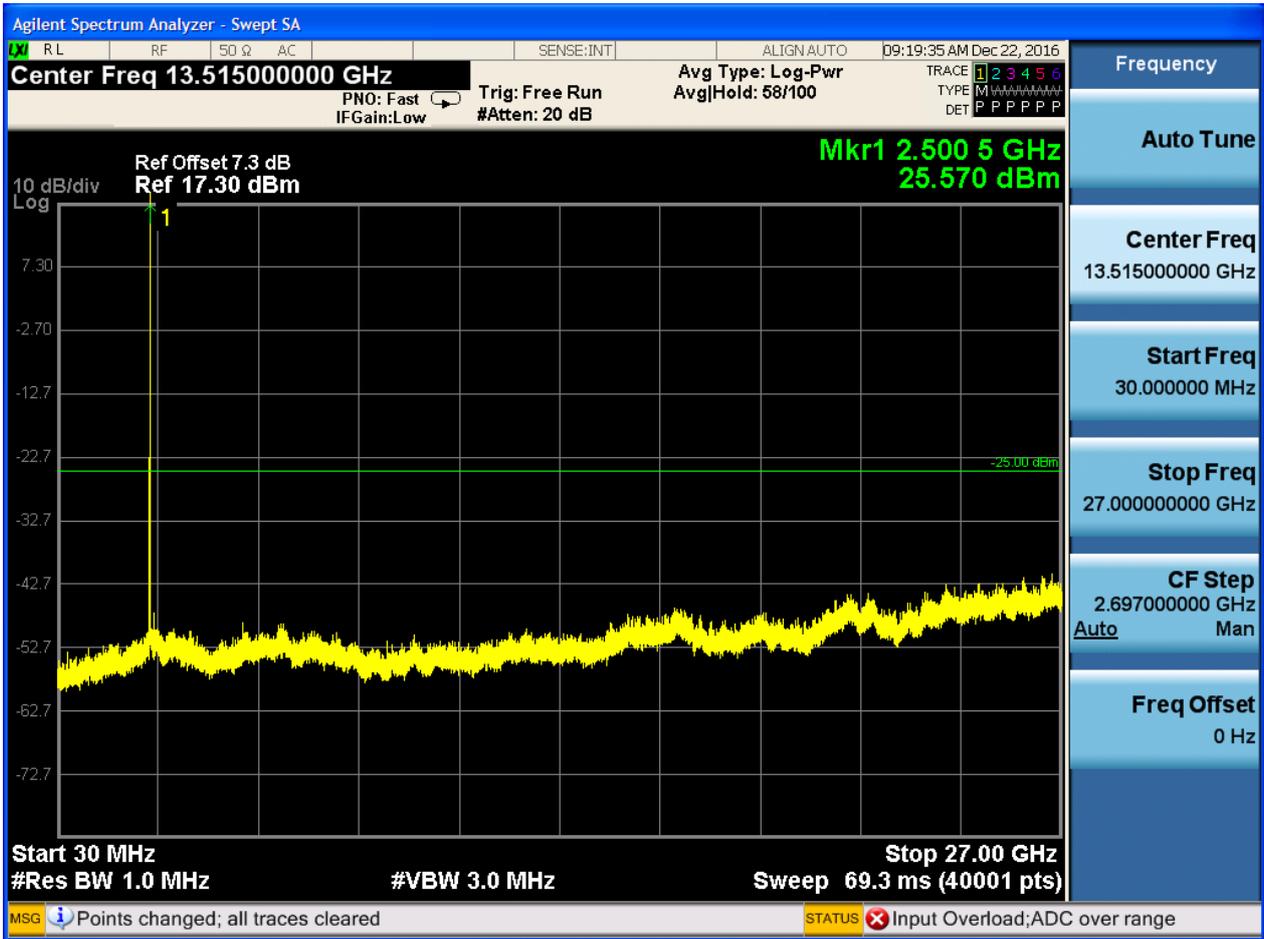
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



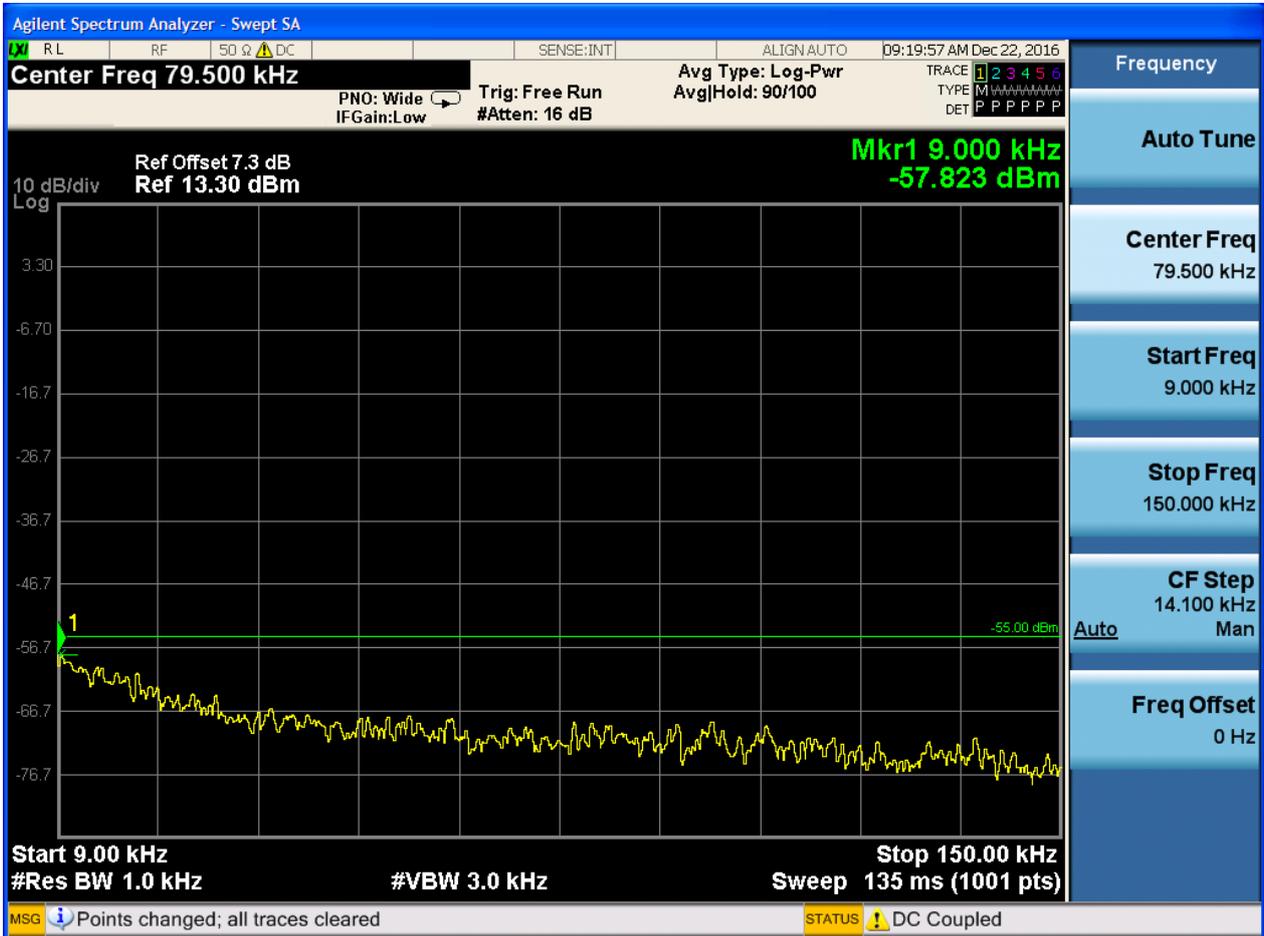


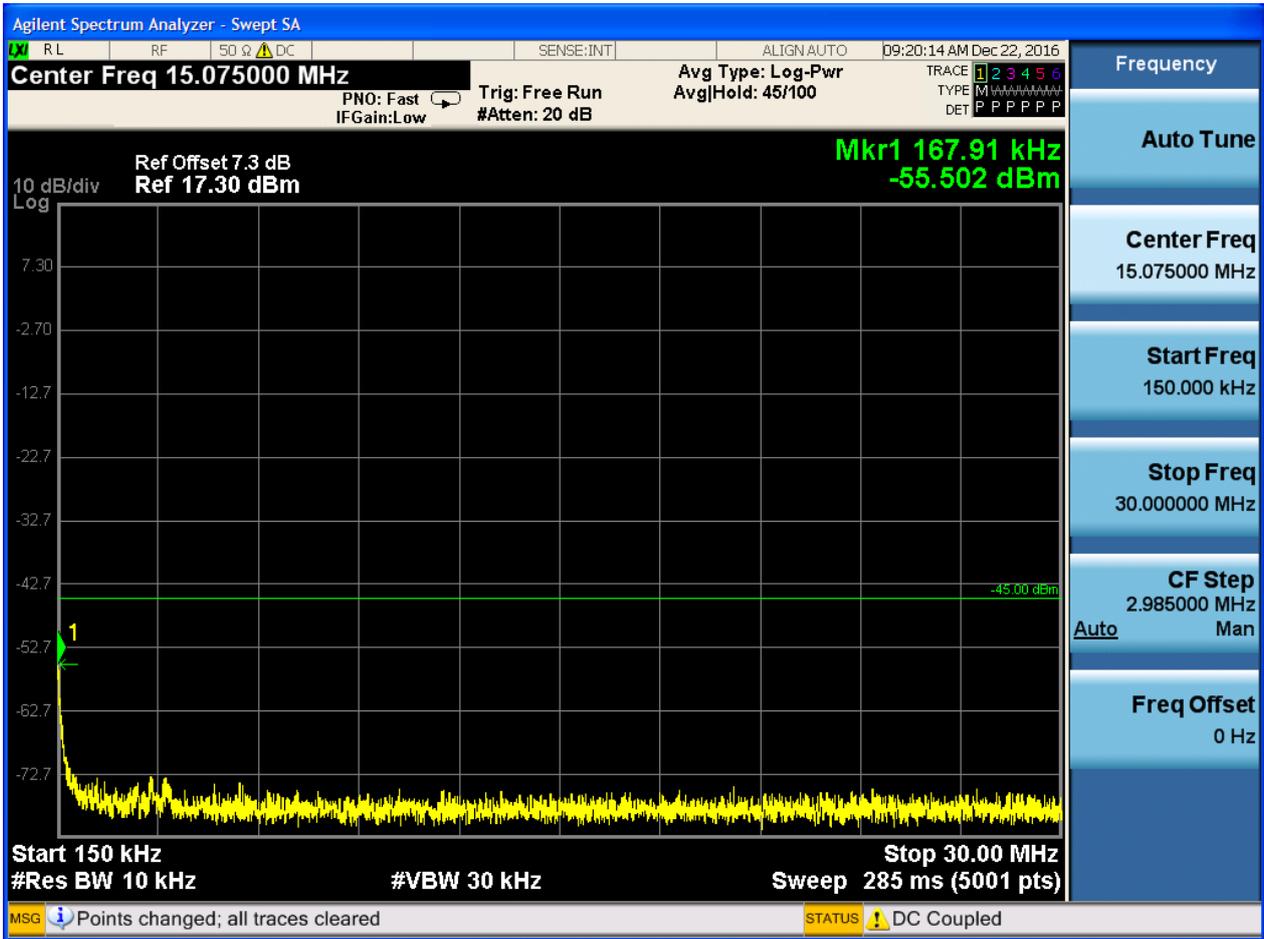


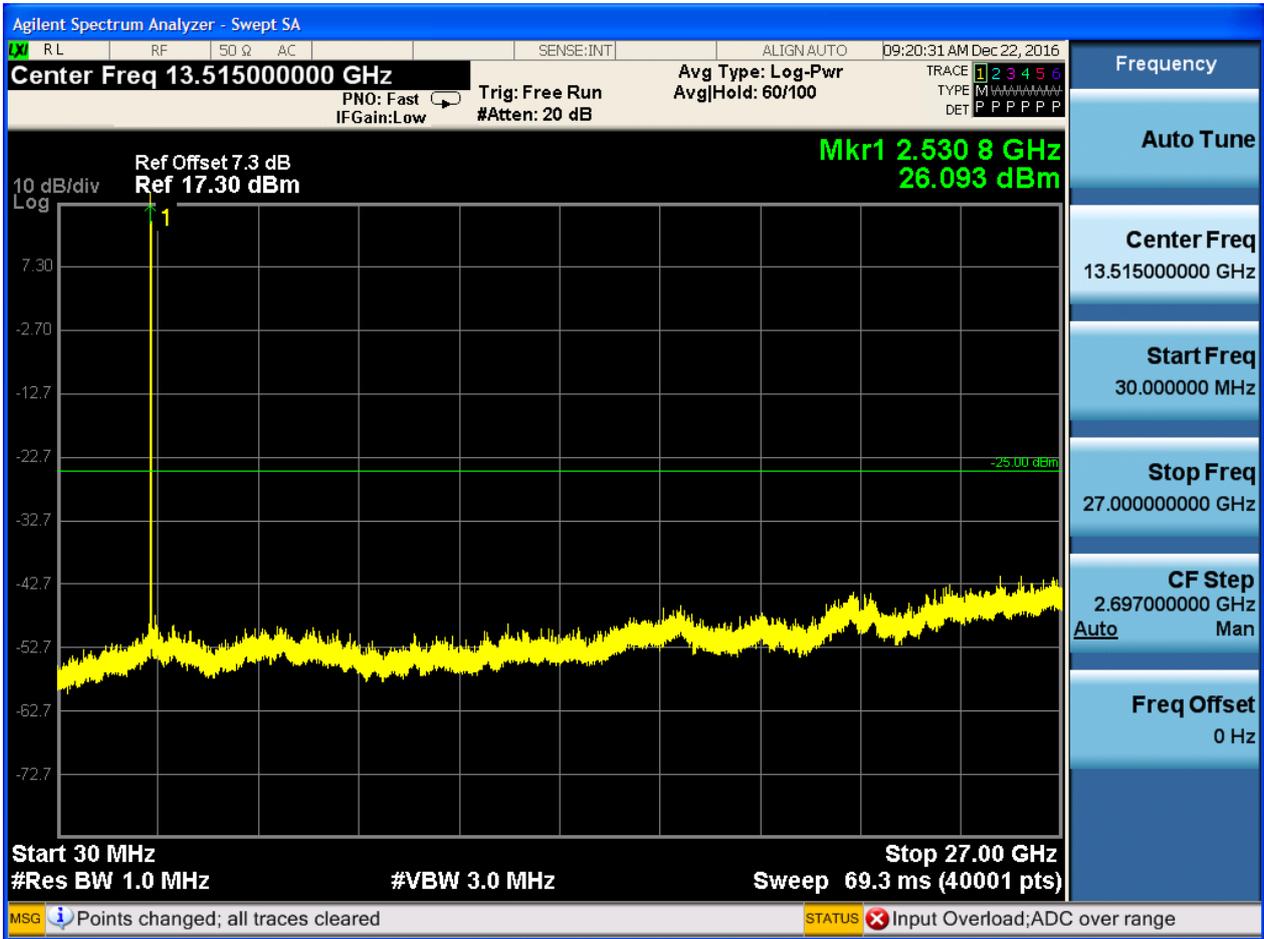


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



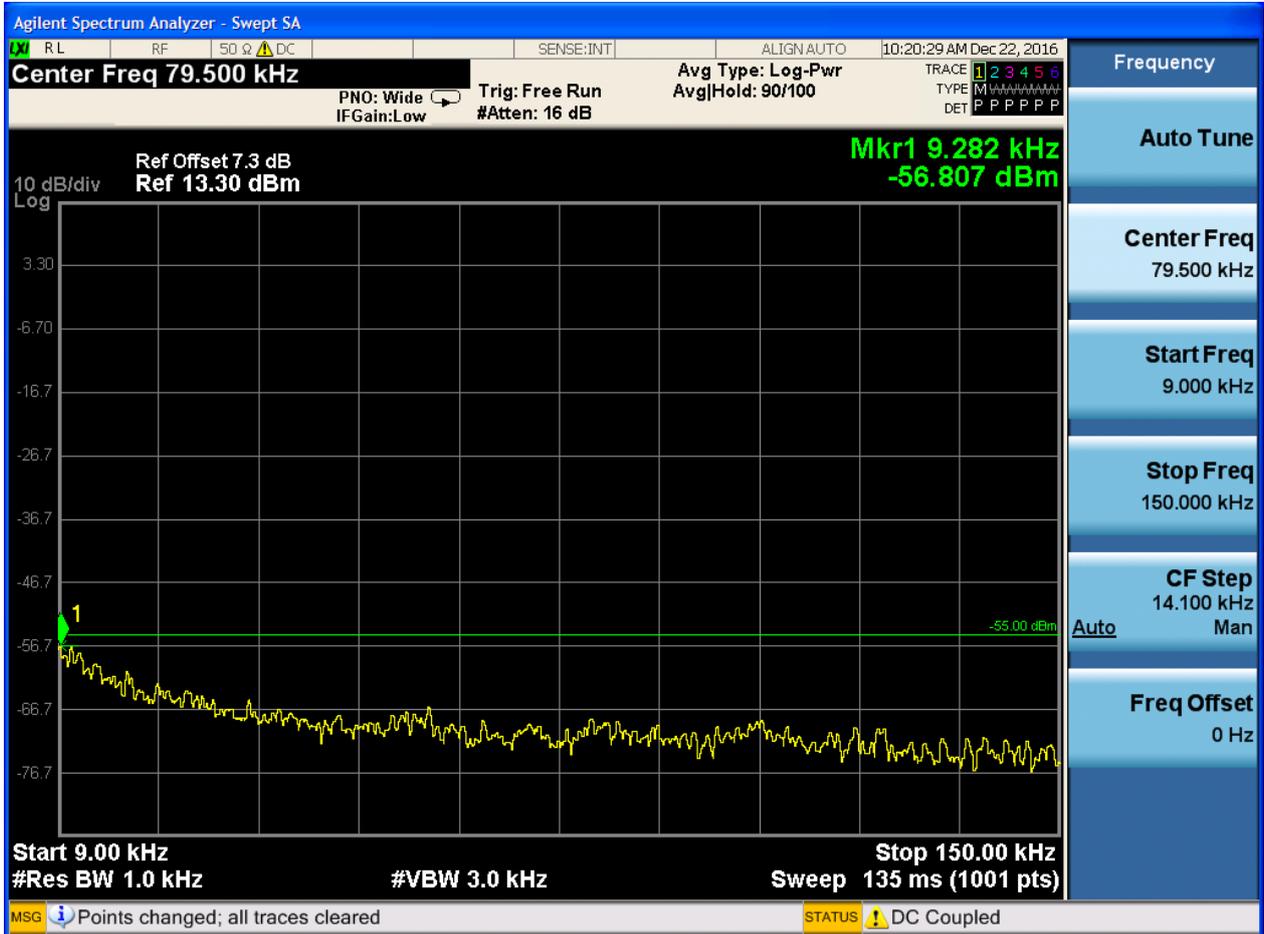


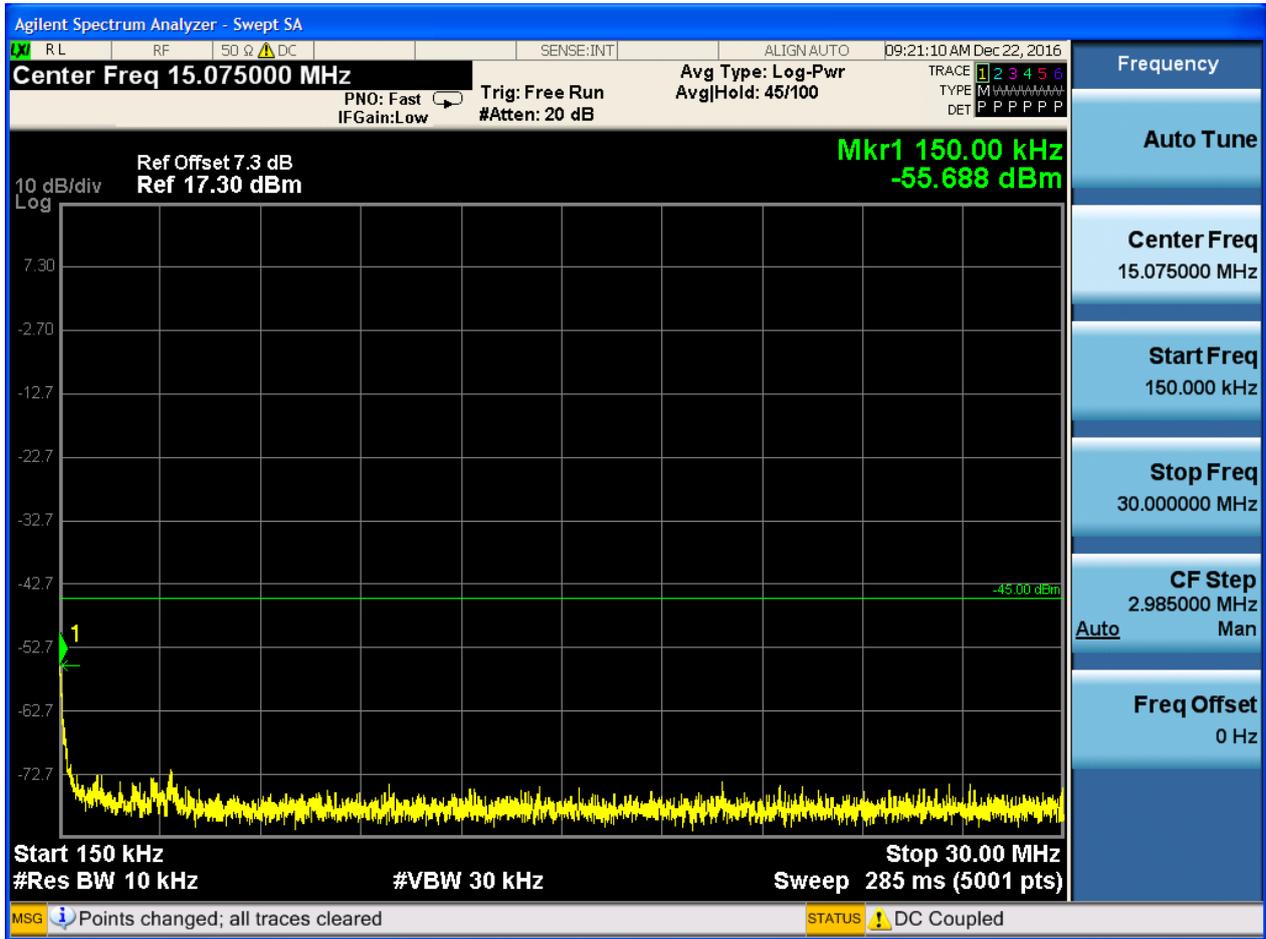


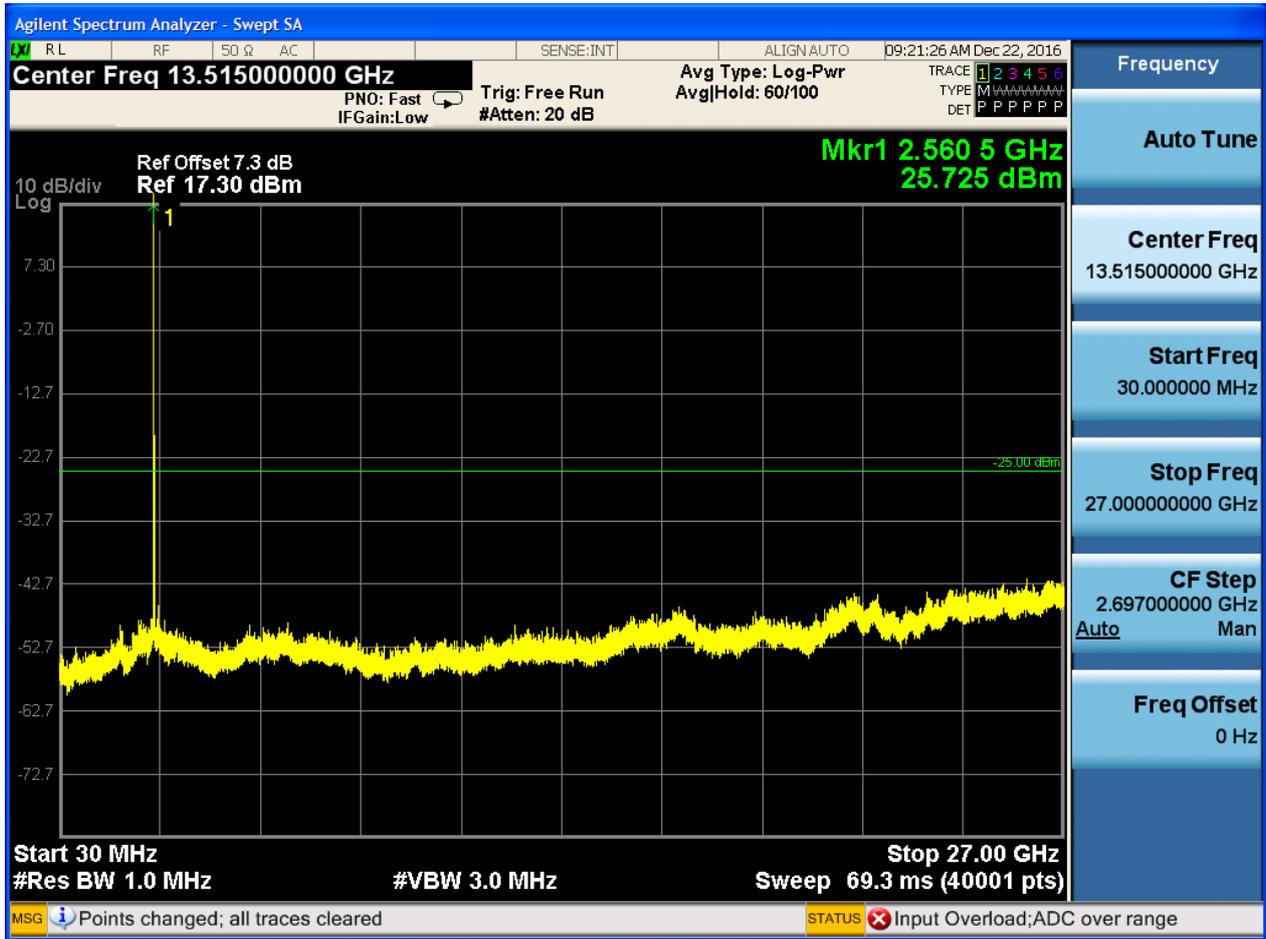


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





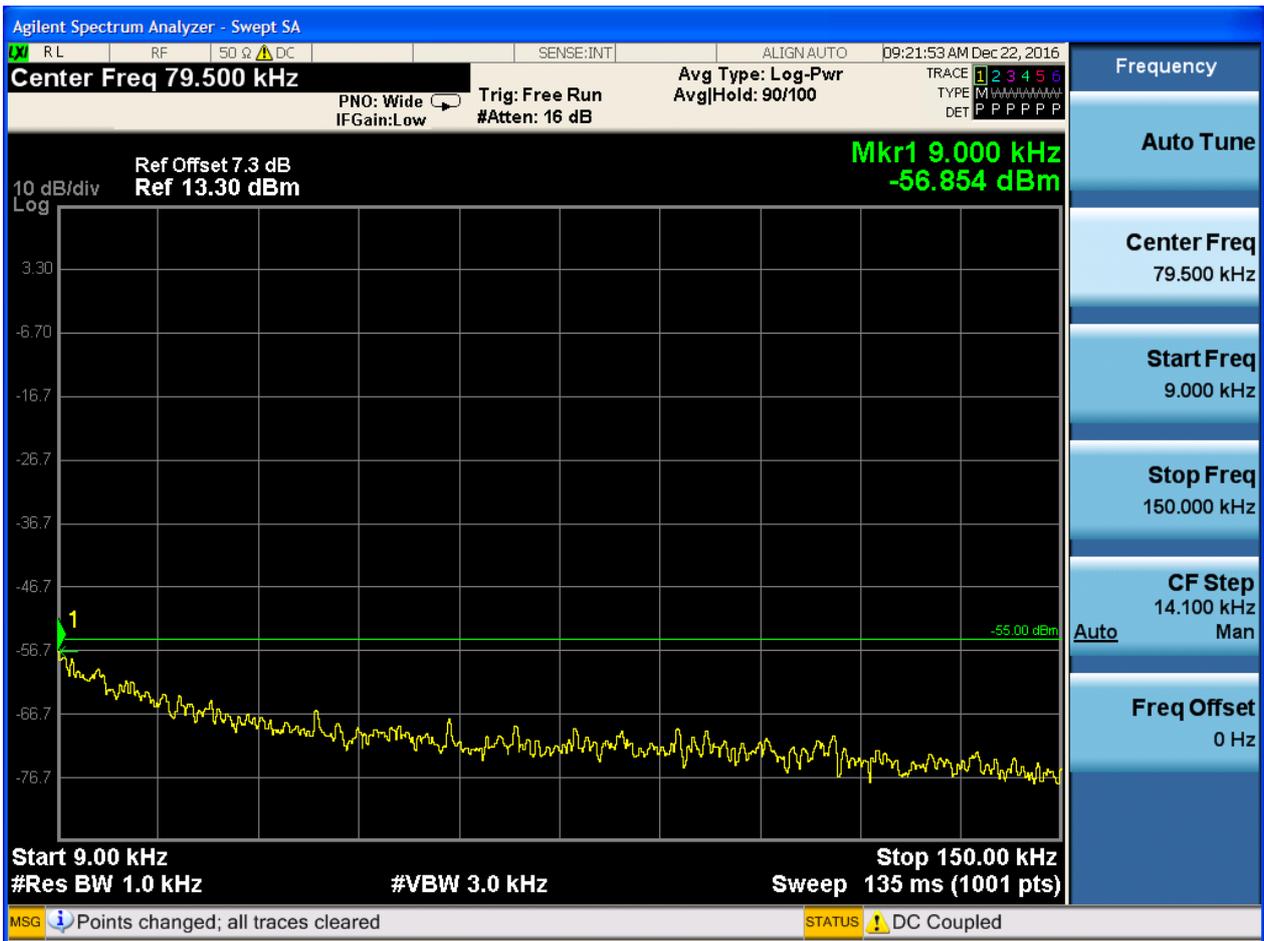


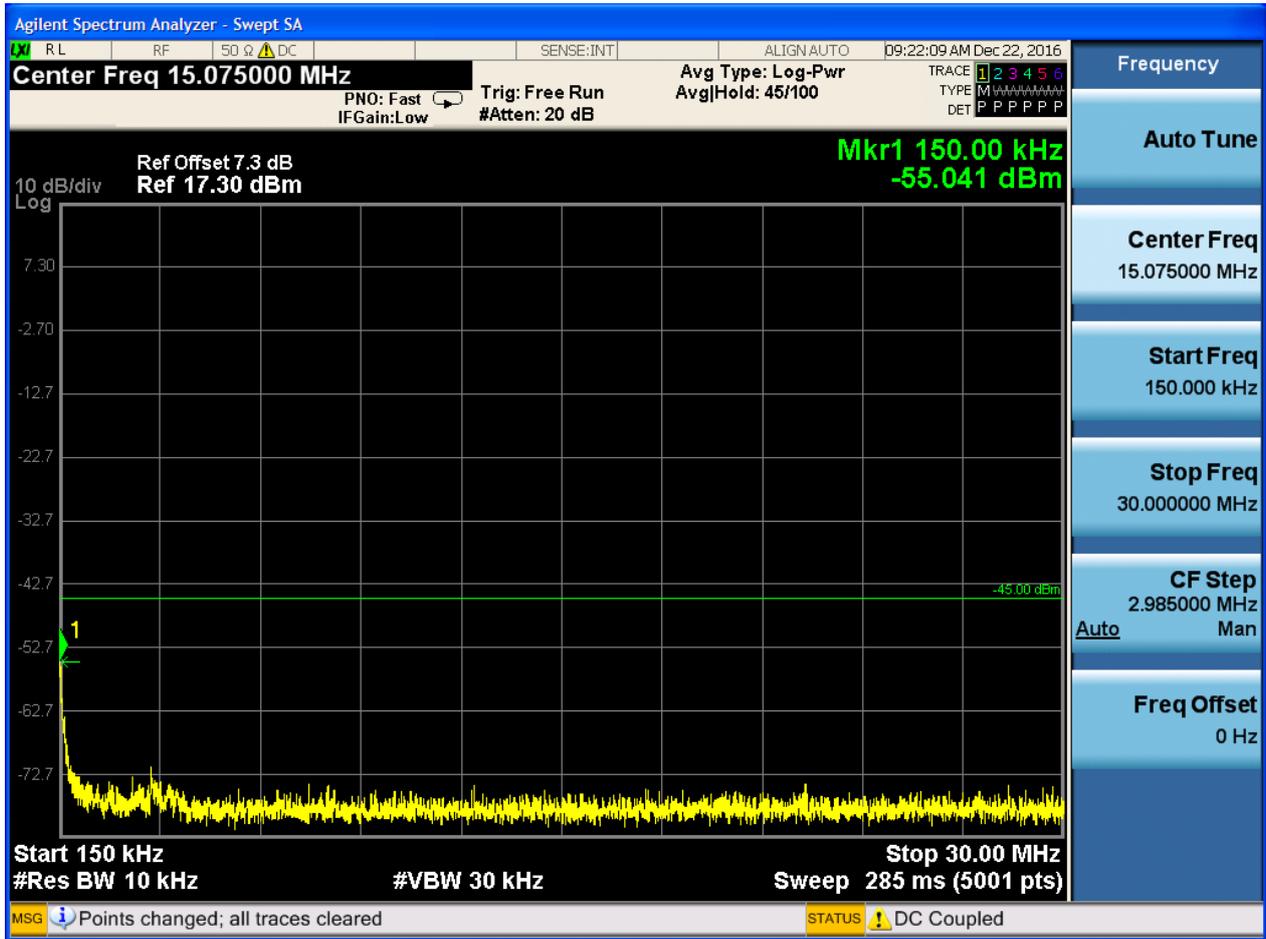


6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



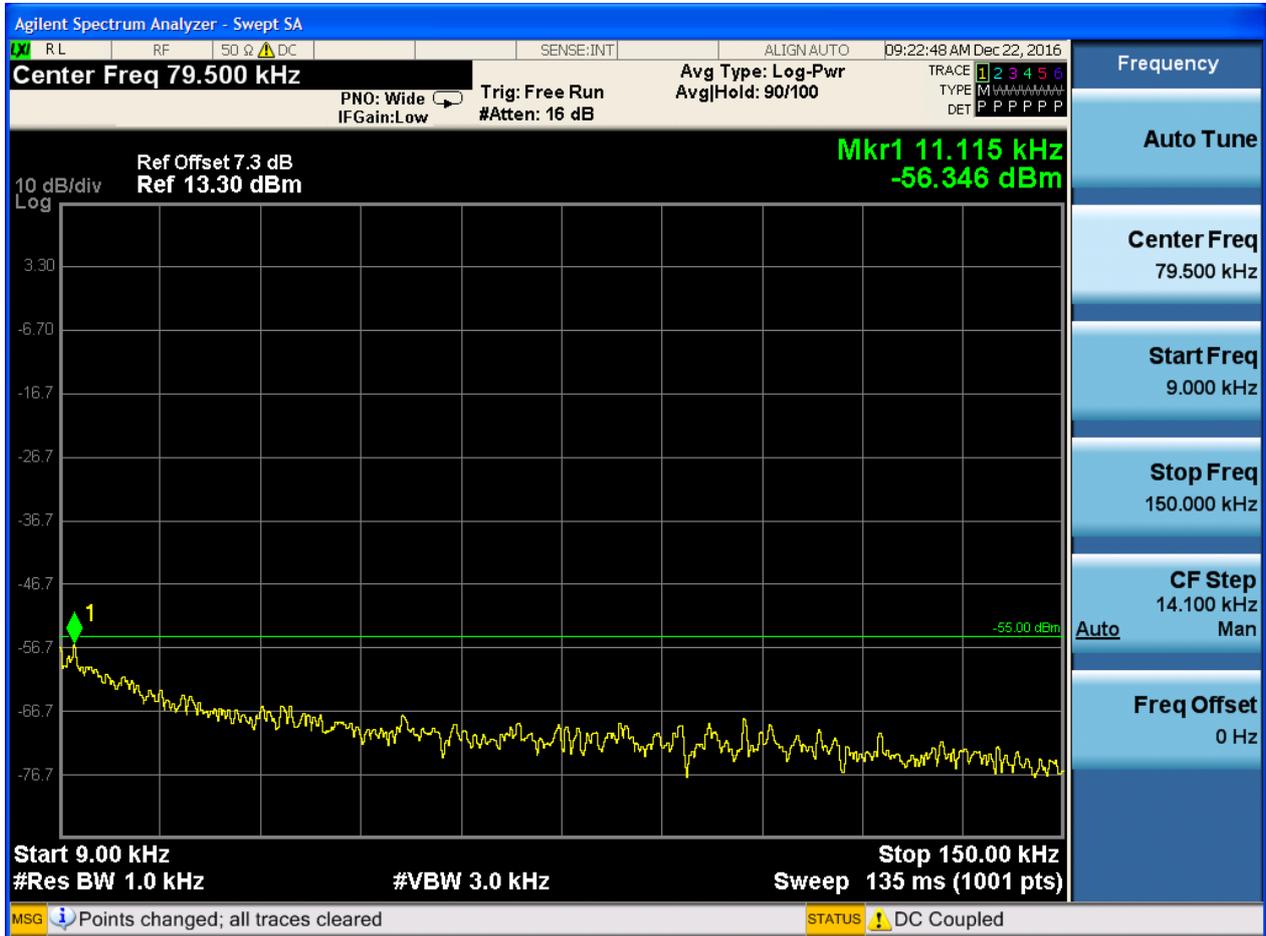


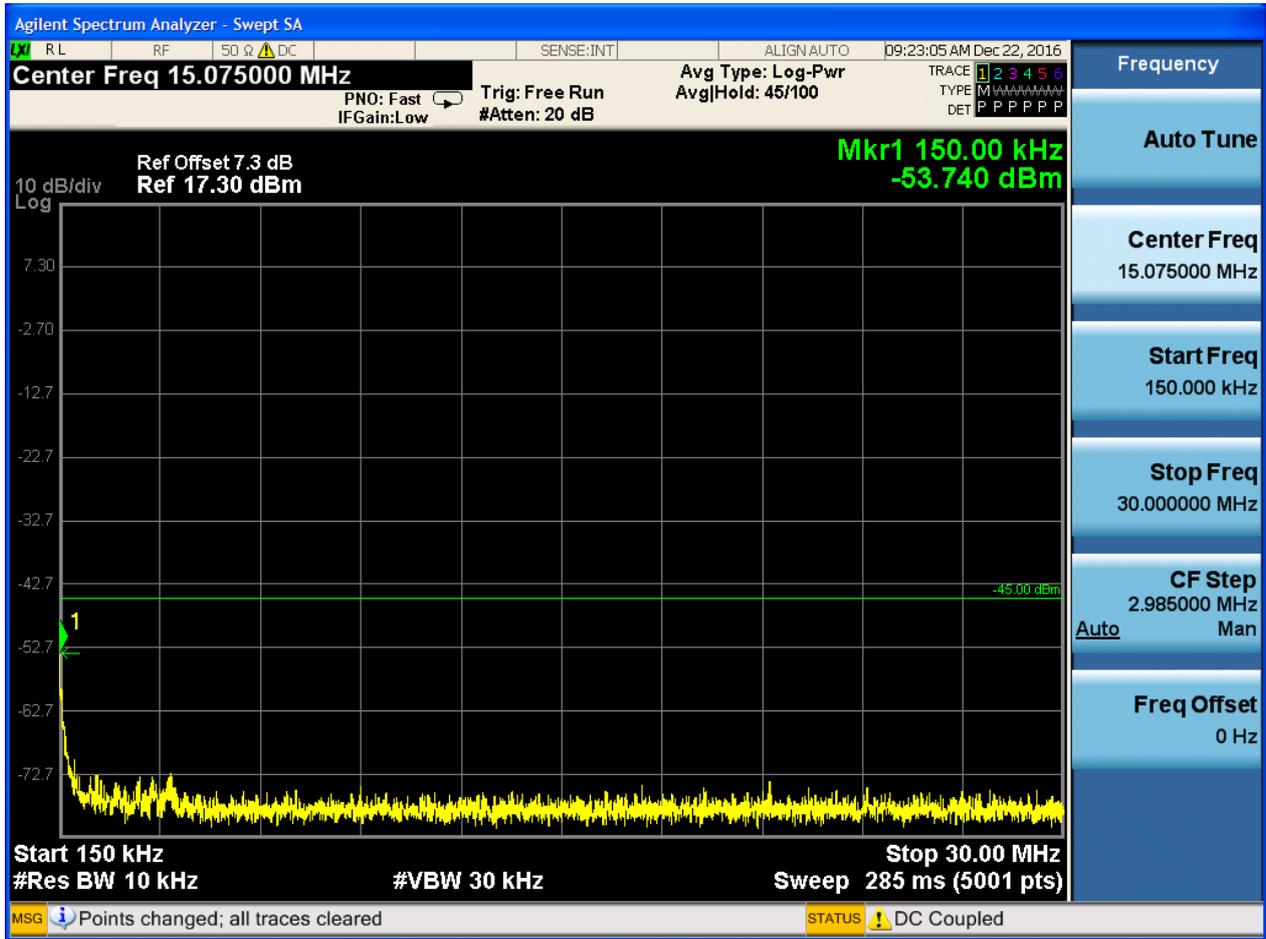


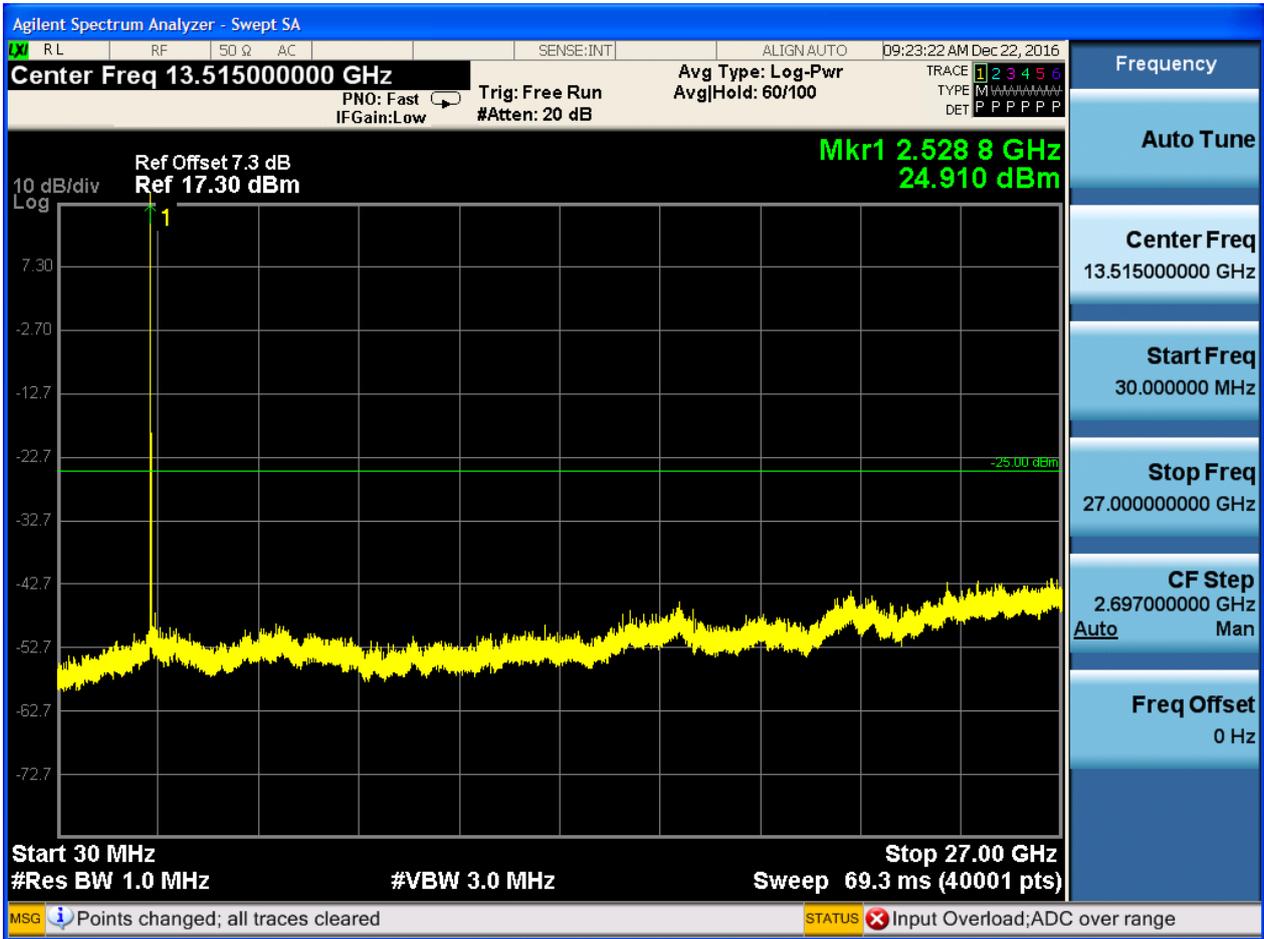


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



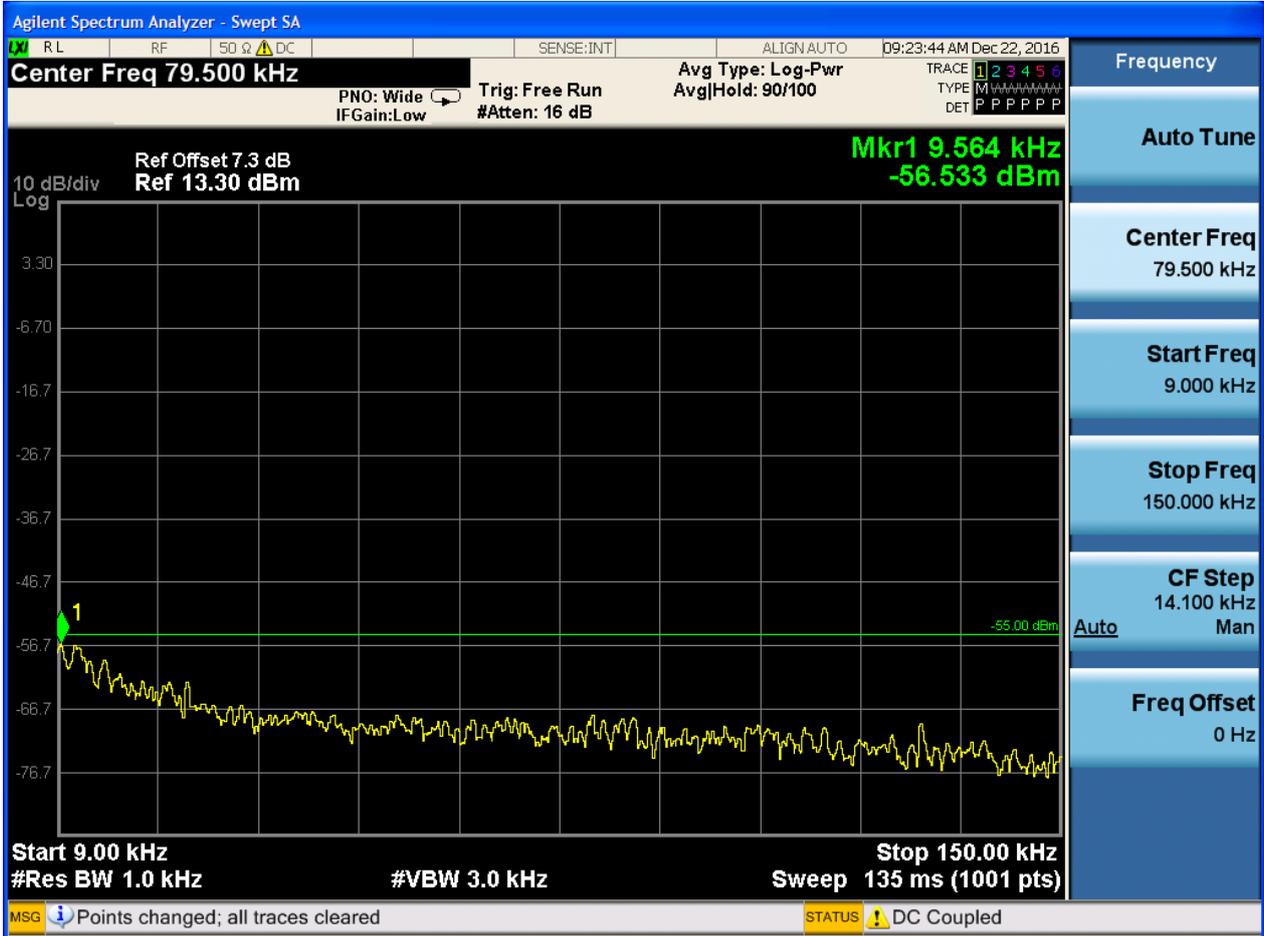


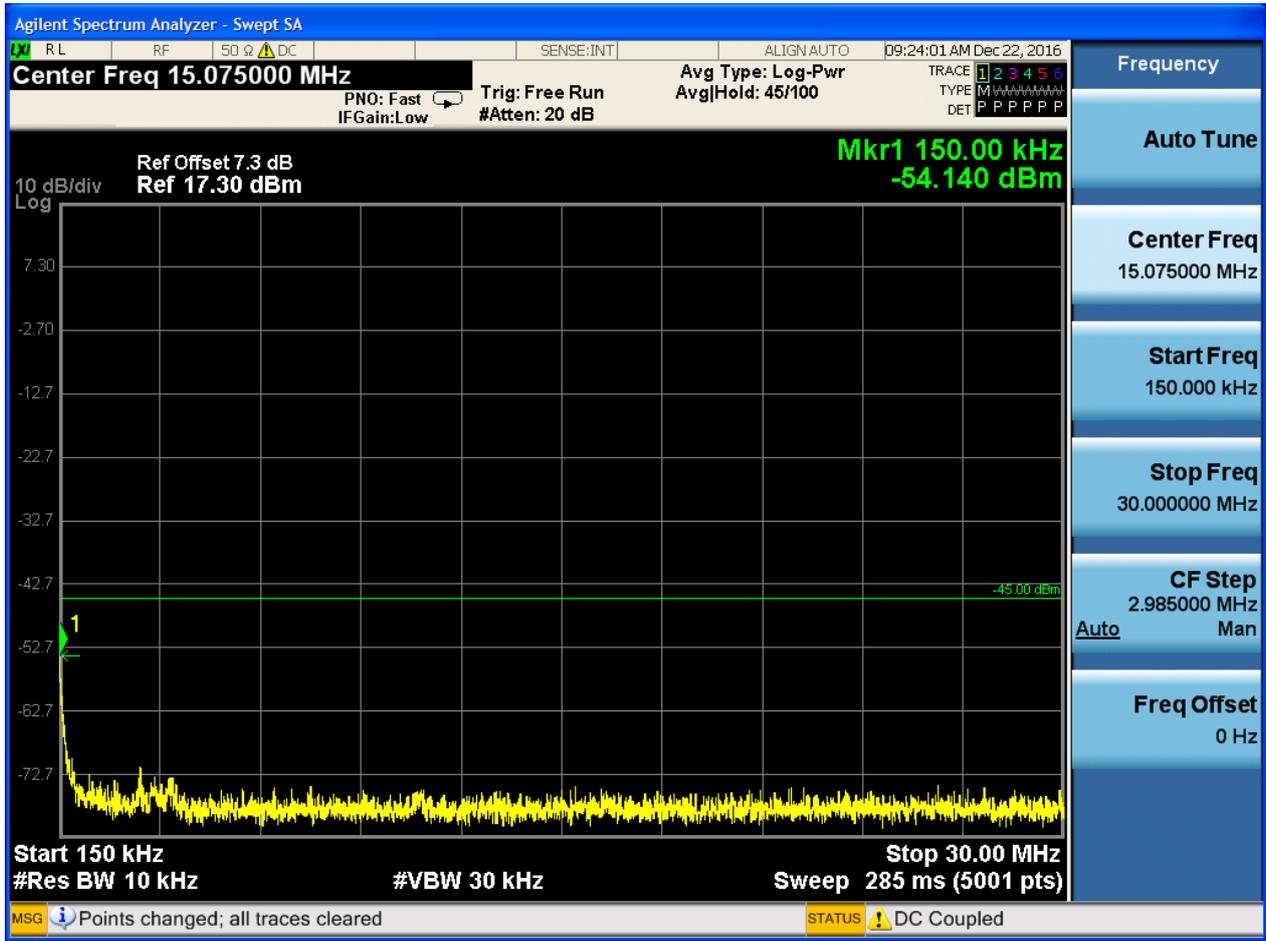


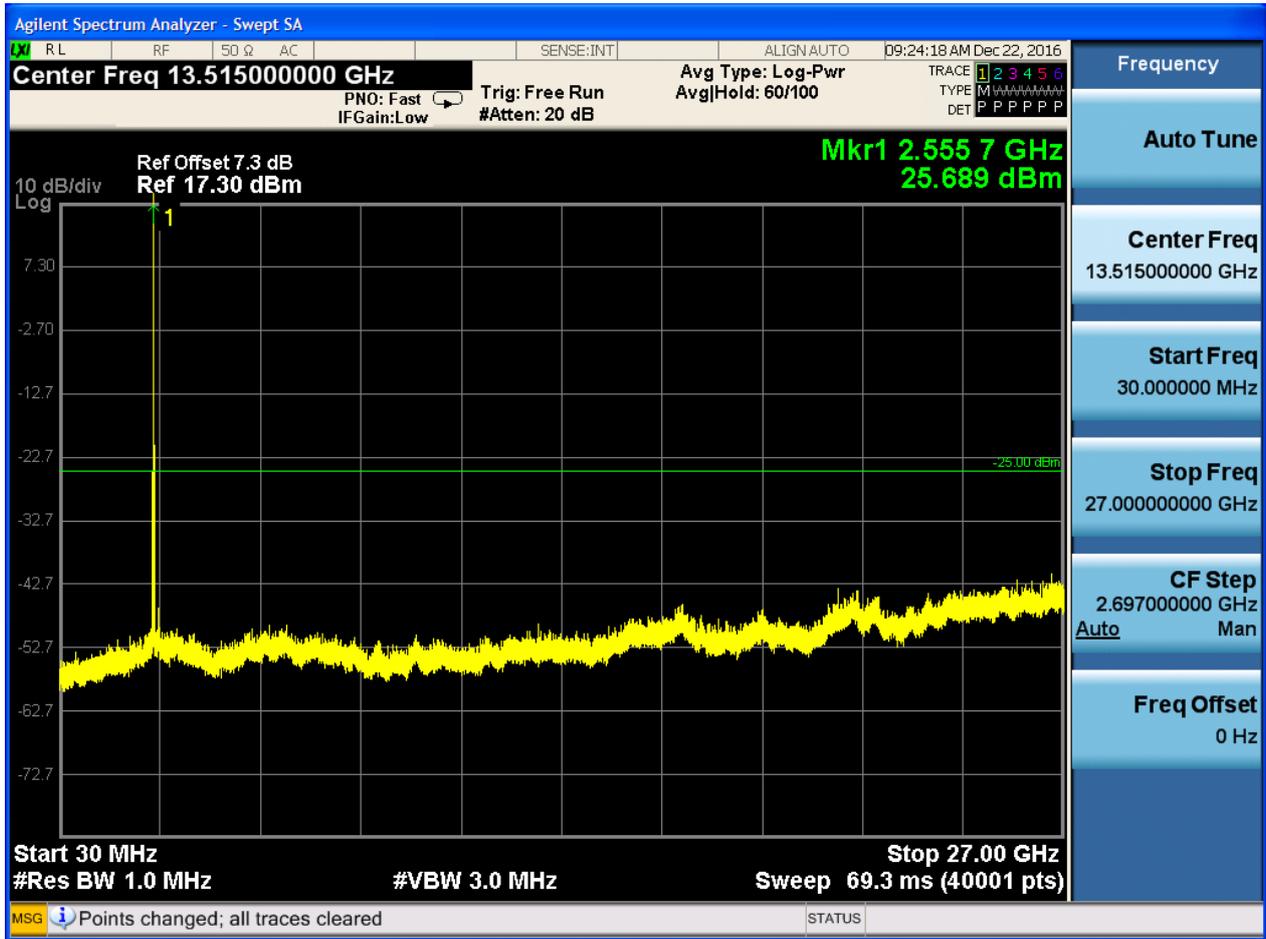


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







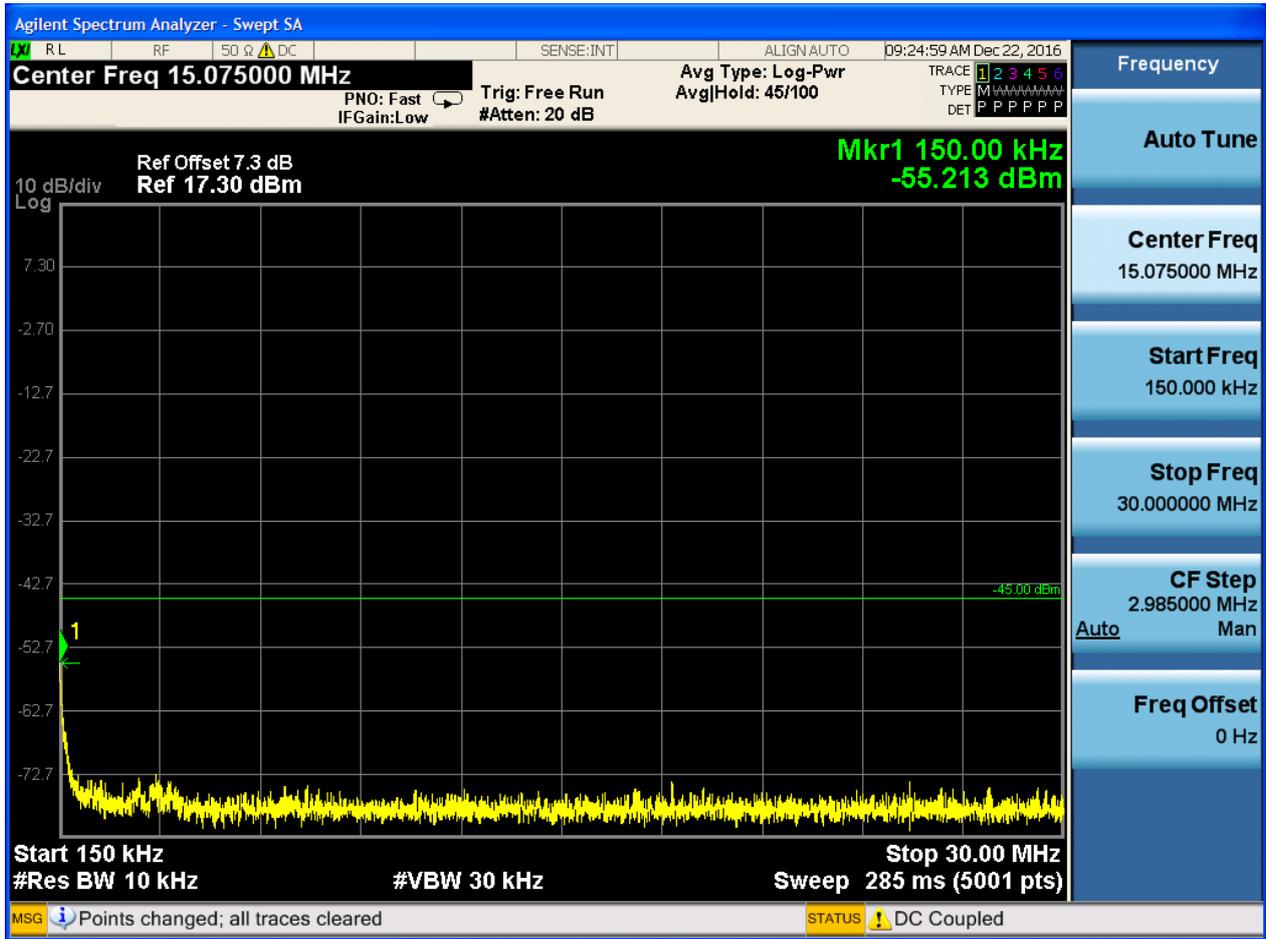


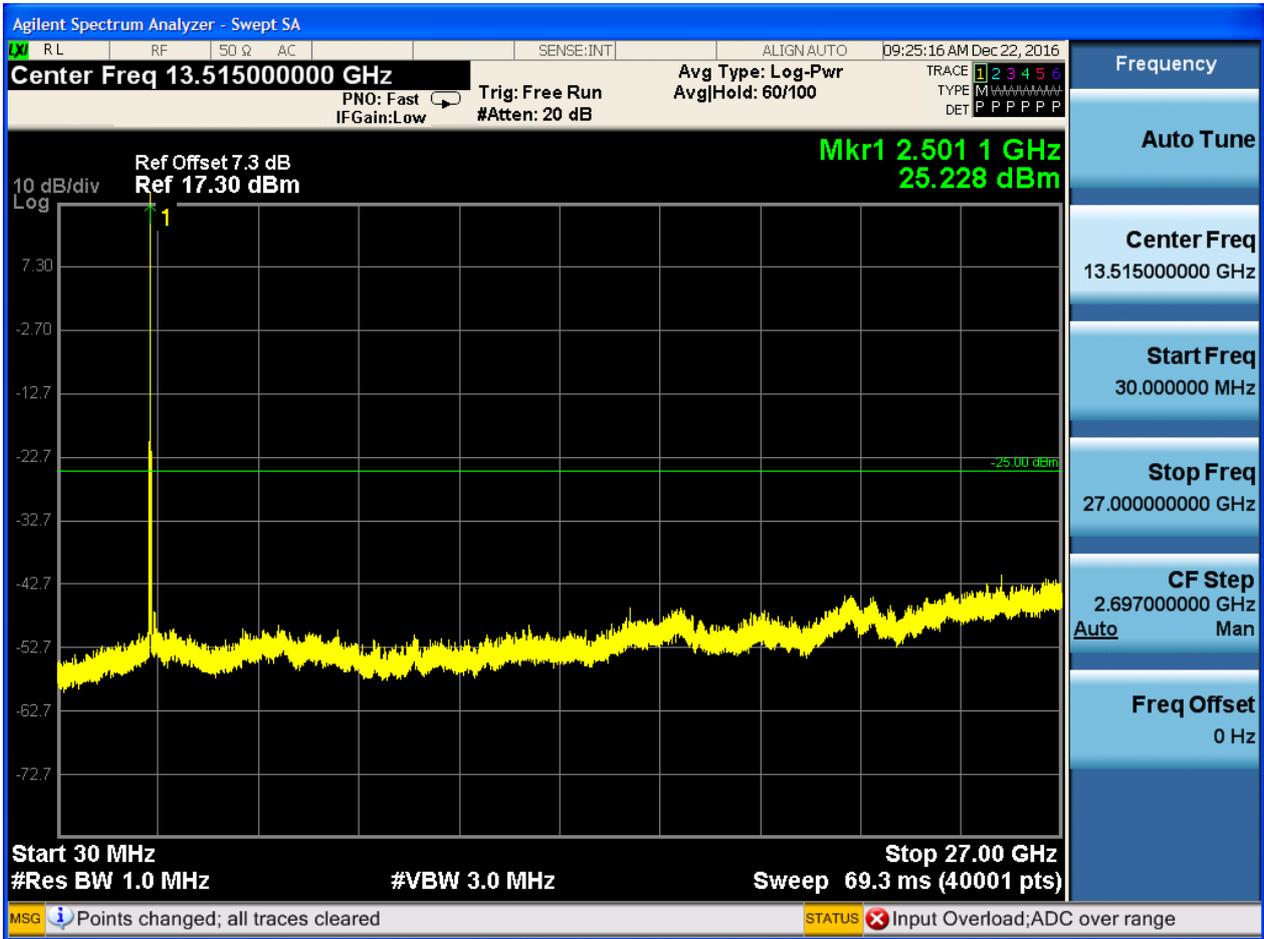
6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



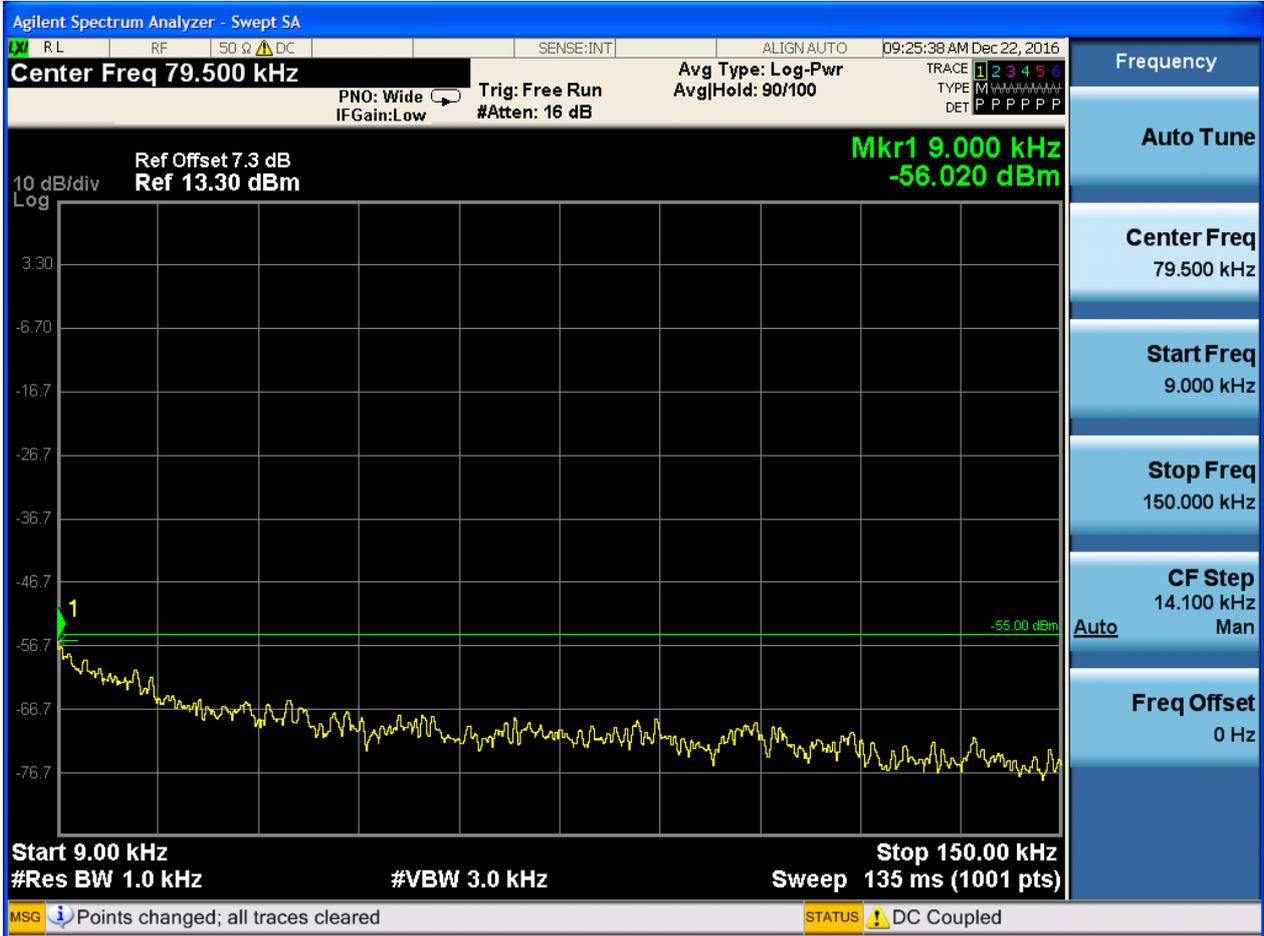


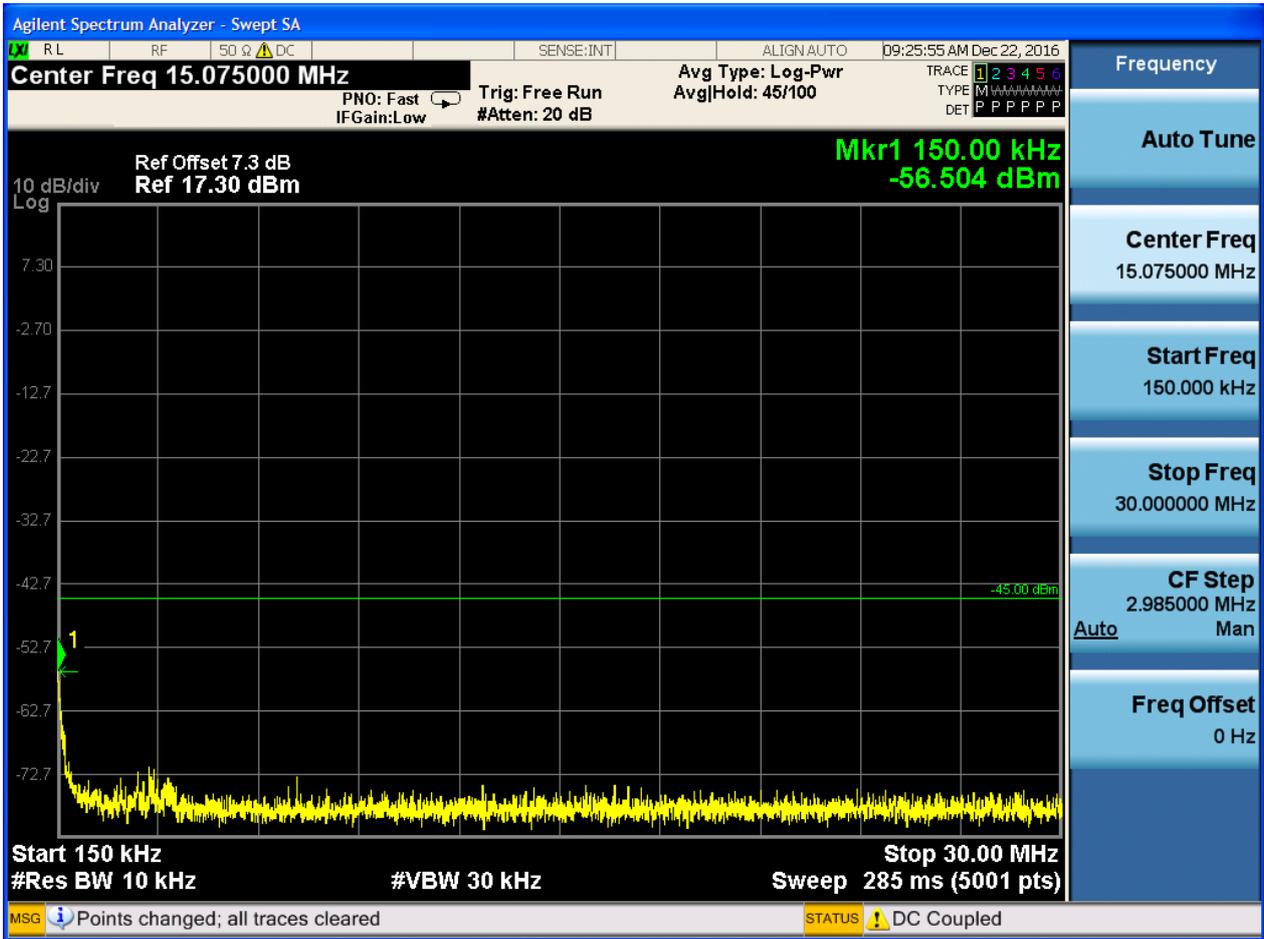


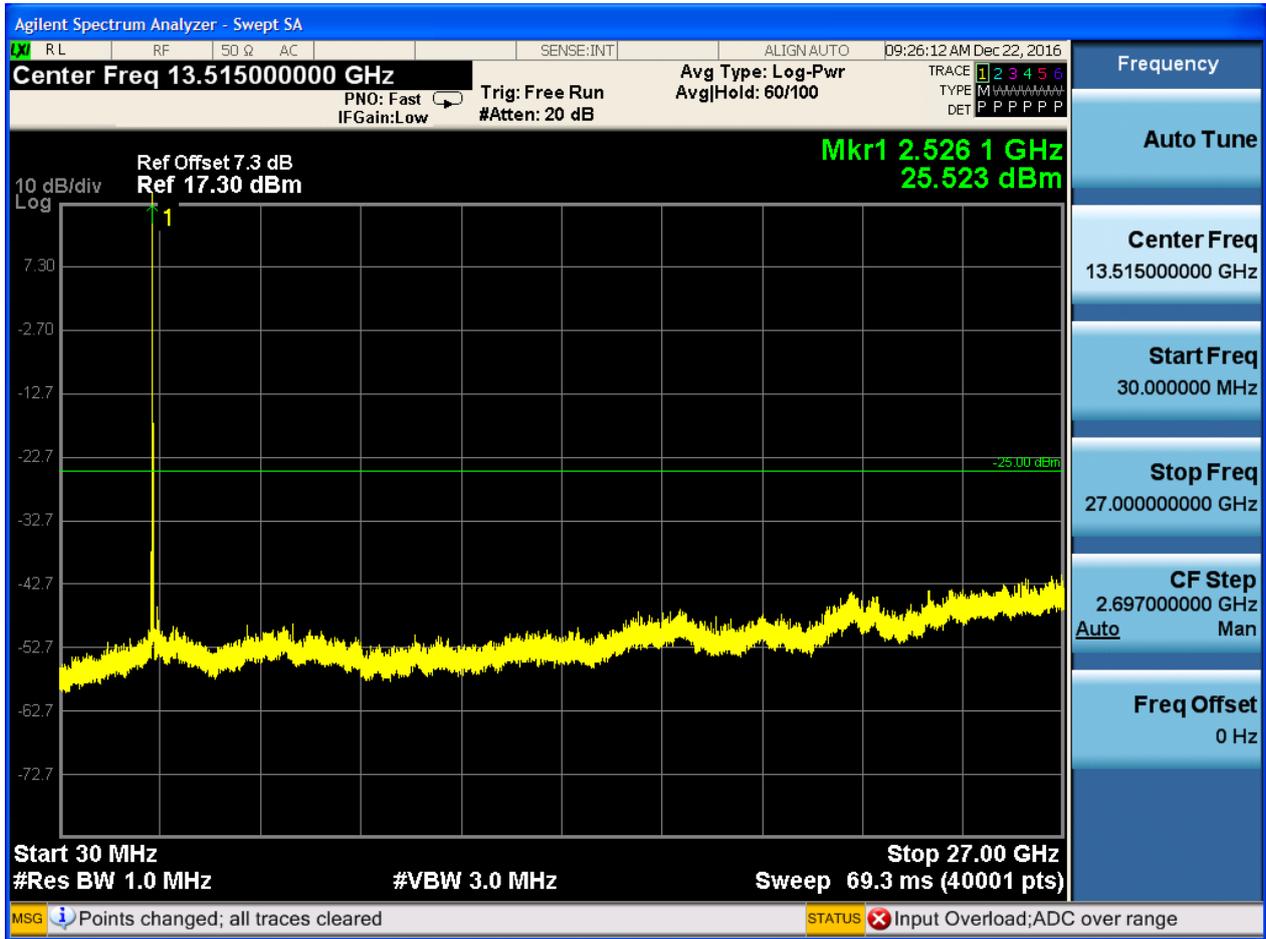


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



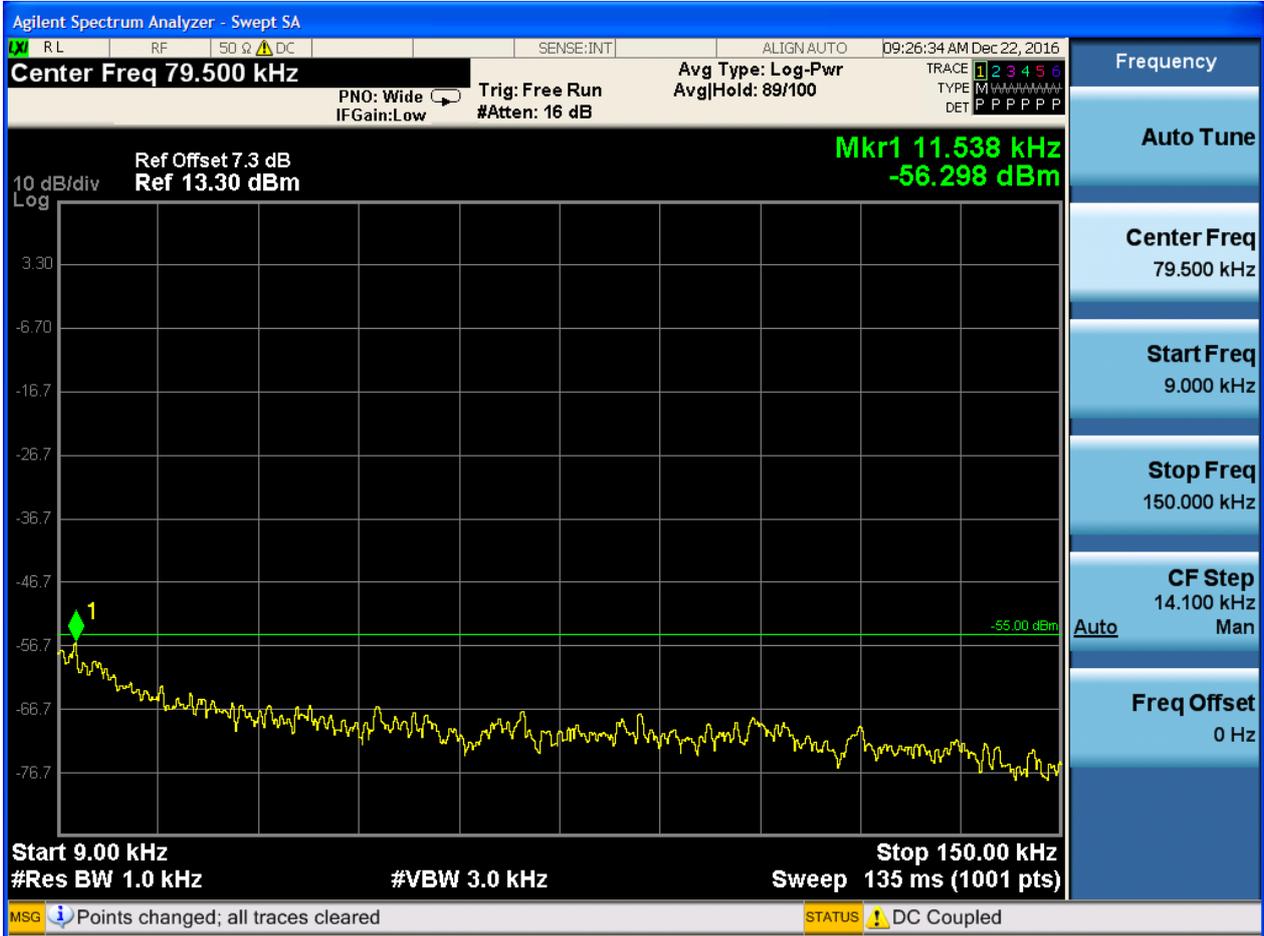




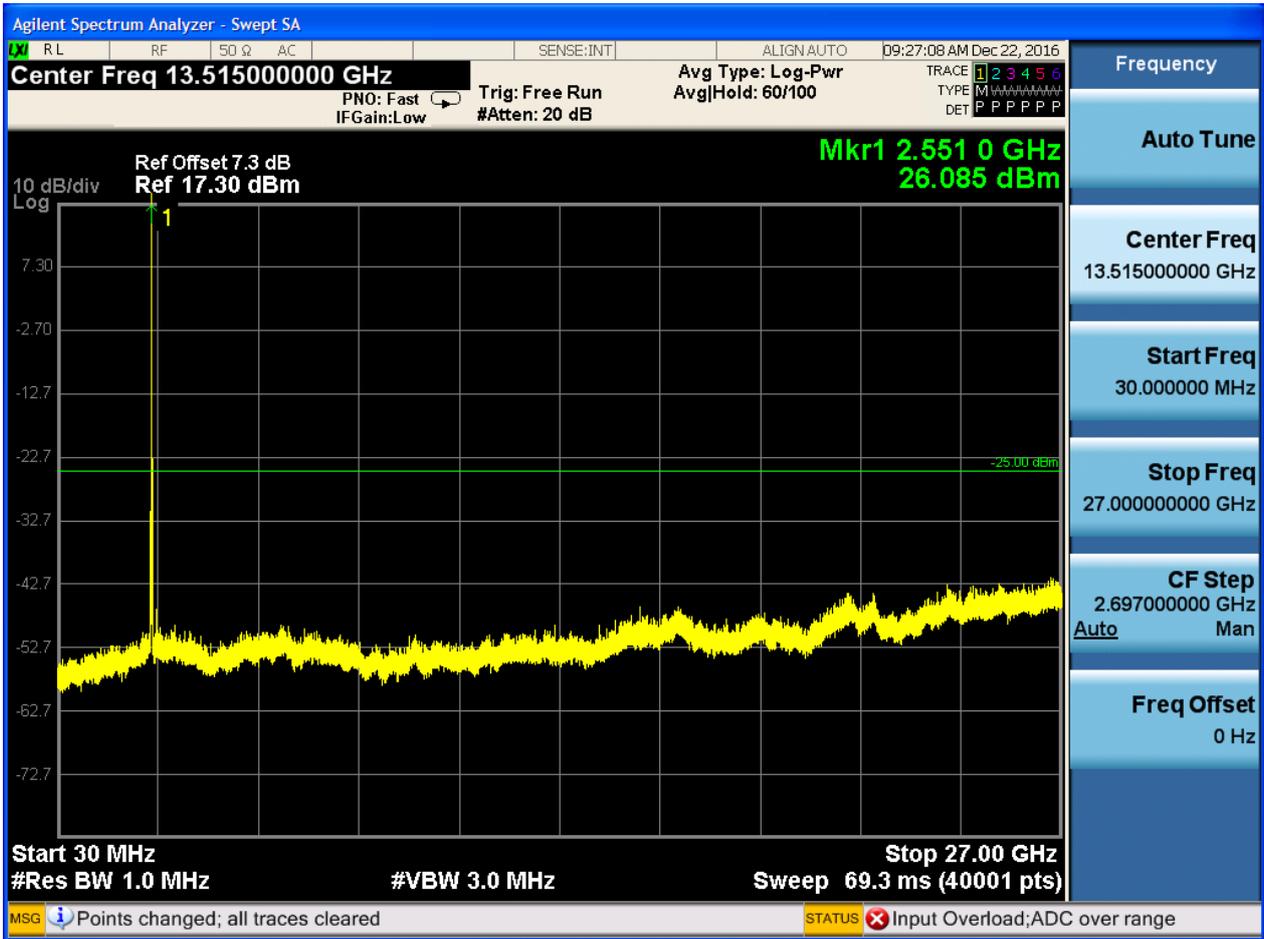


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







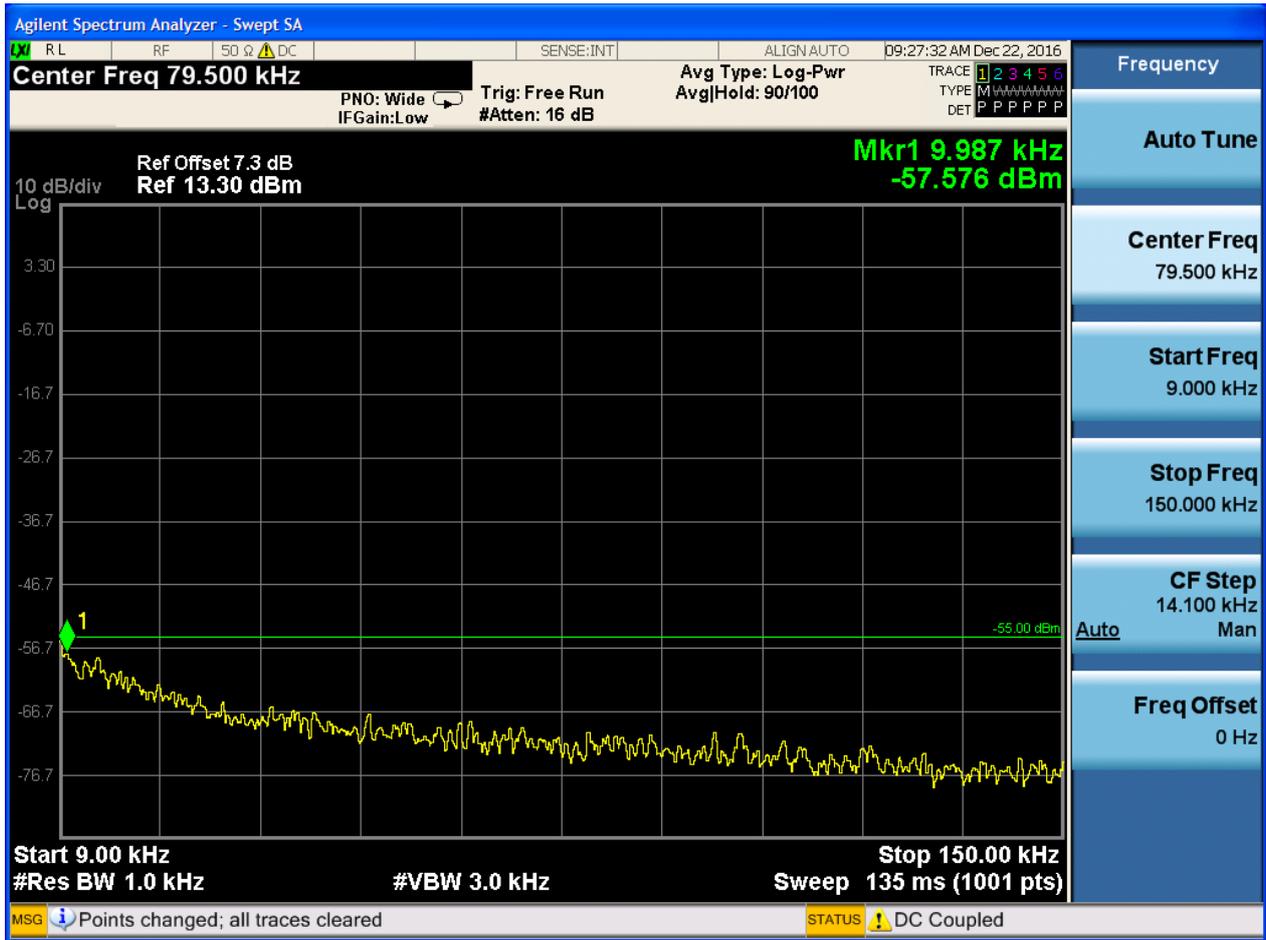


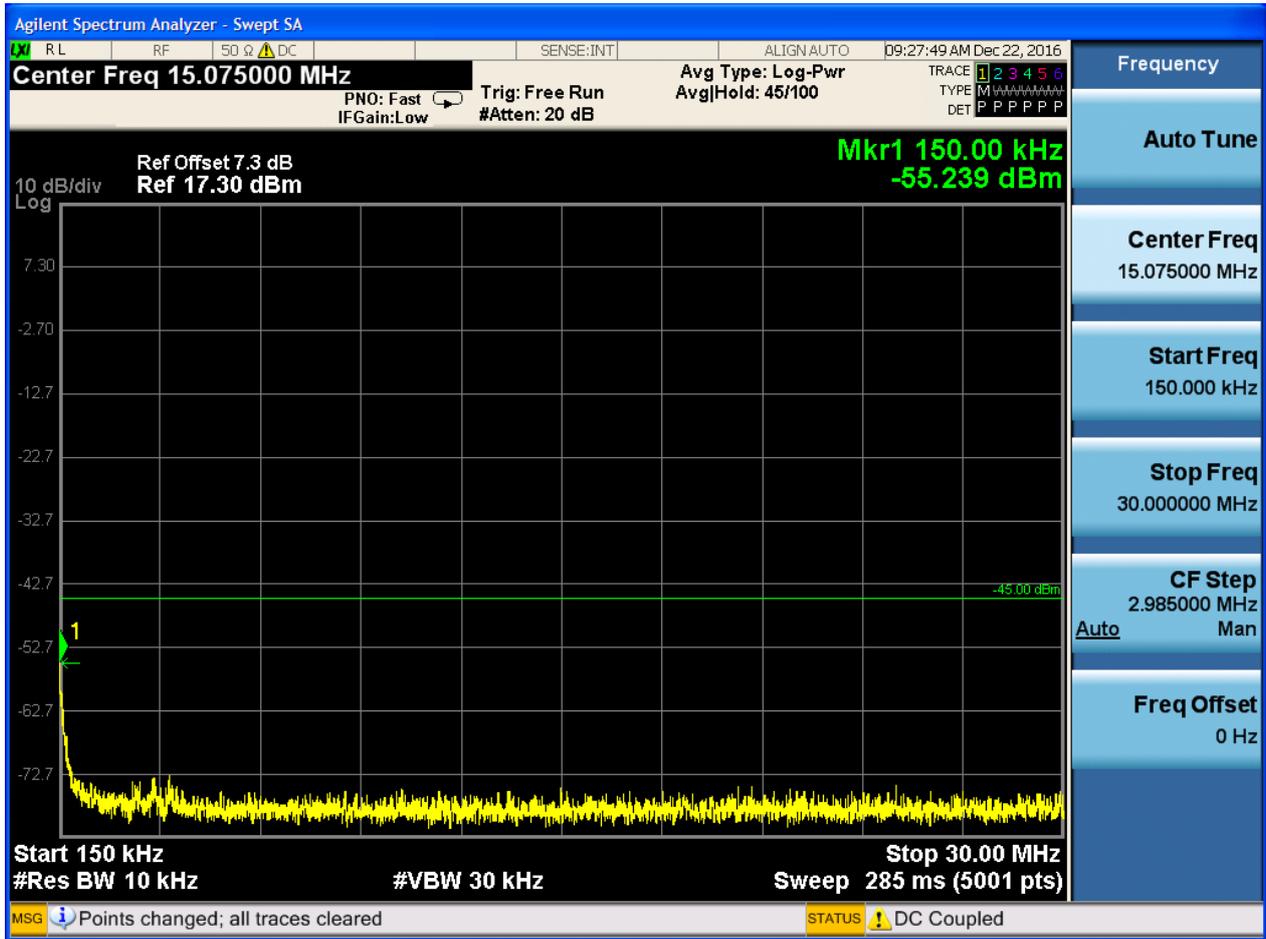
6.1.1.2 Test Mode = LTE/TM2

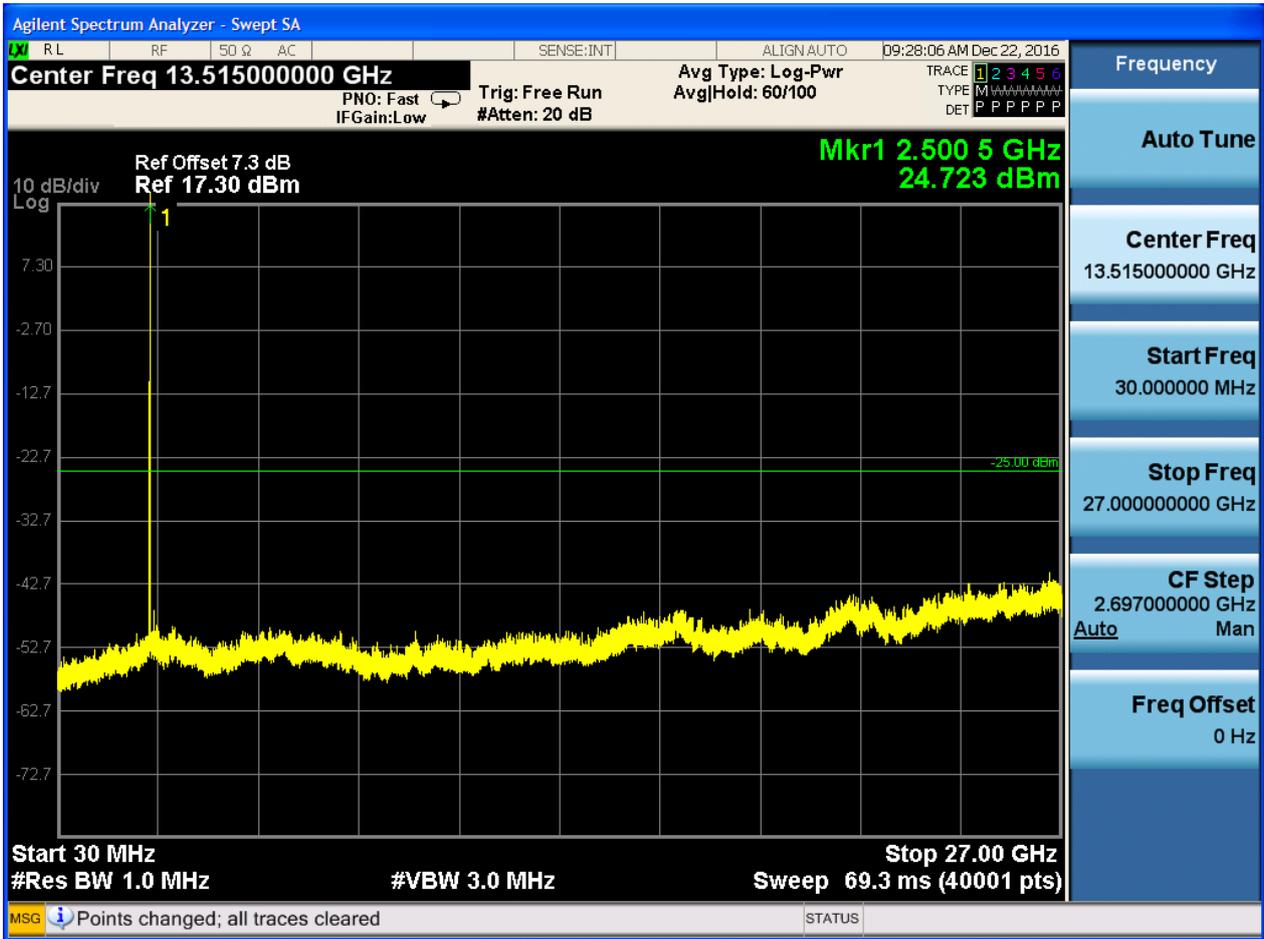
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





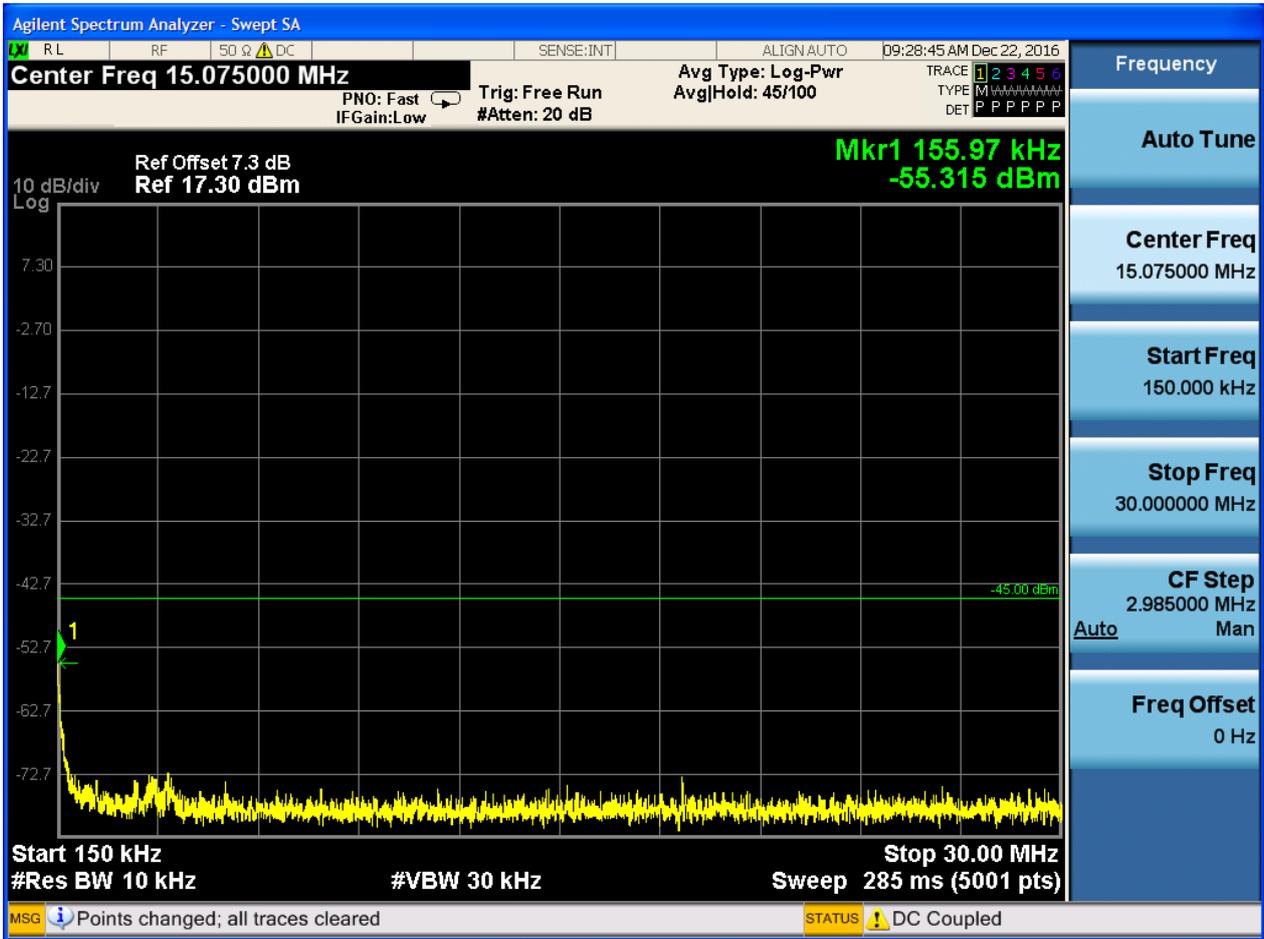


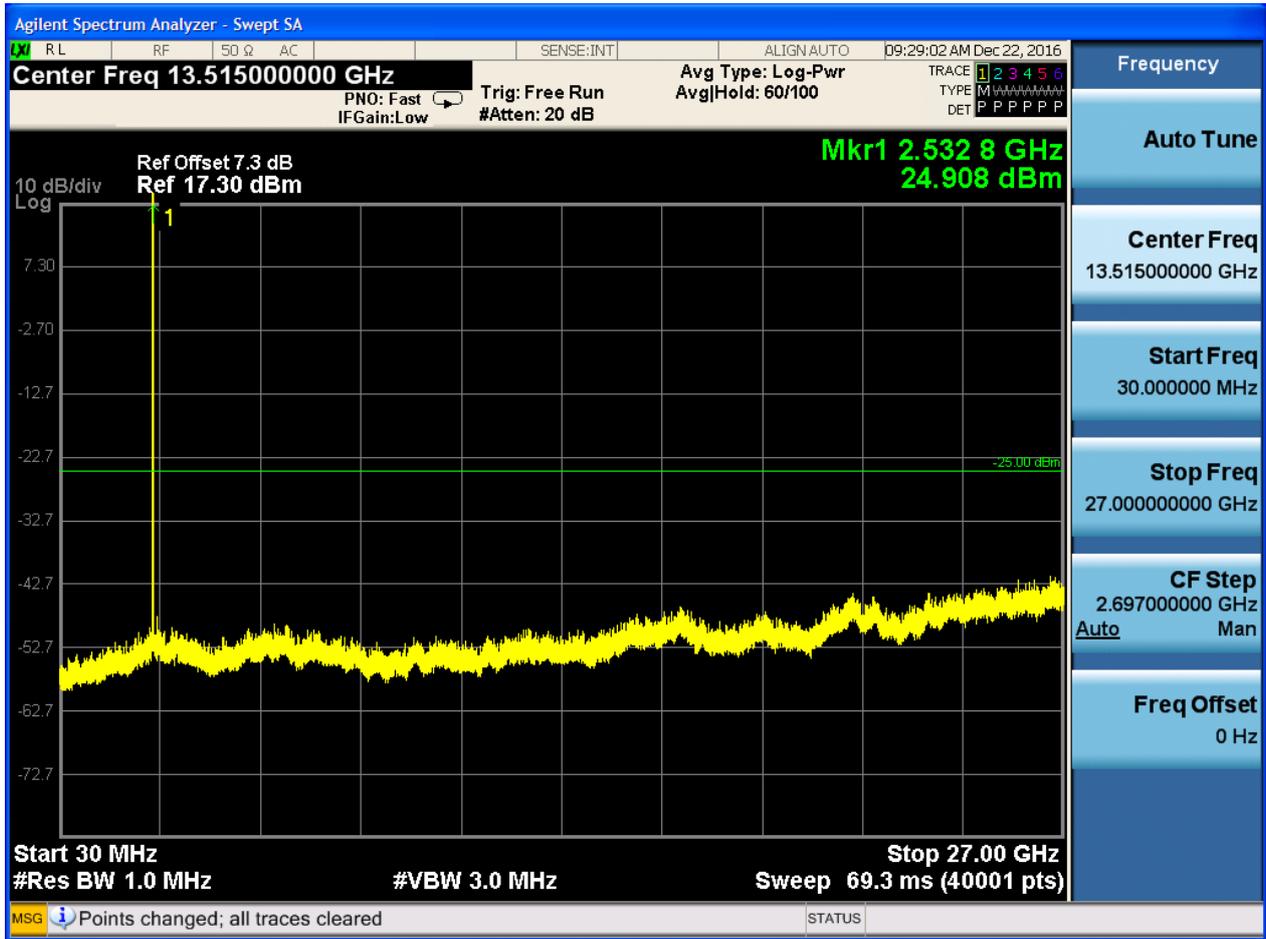


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



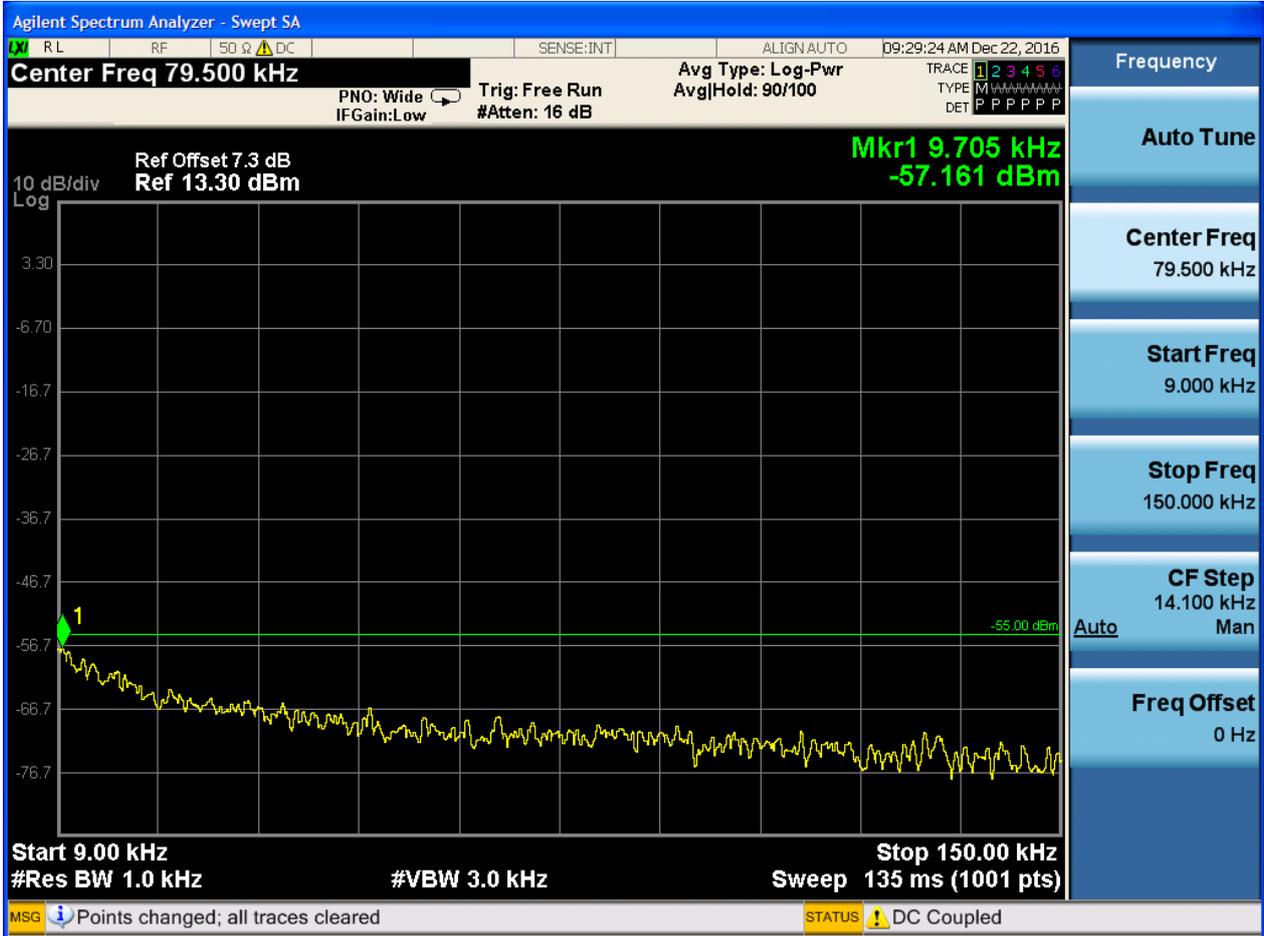


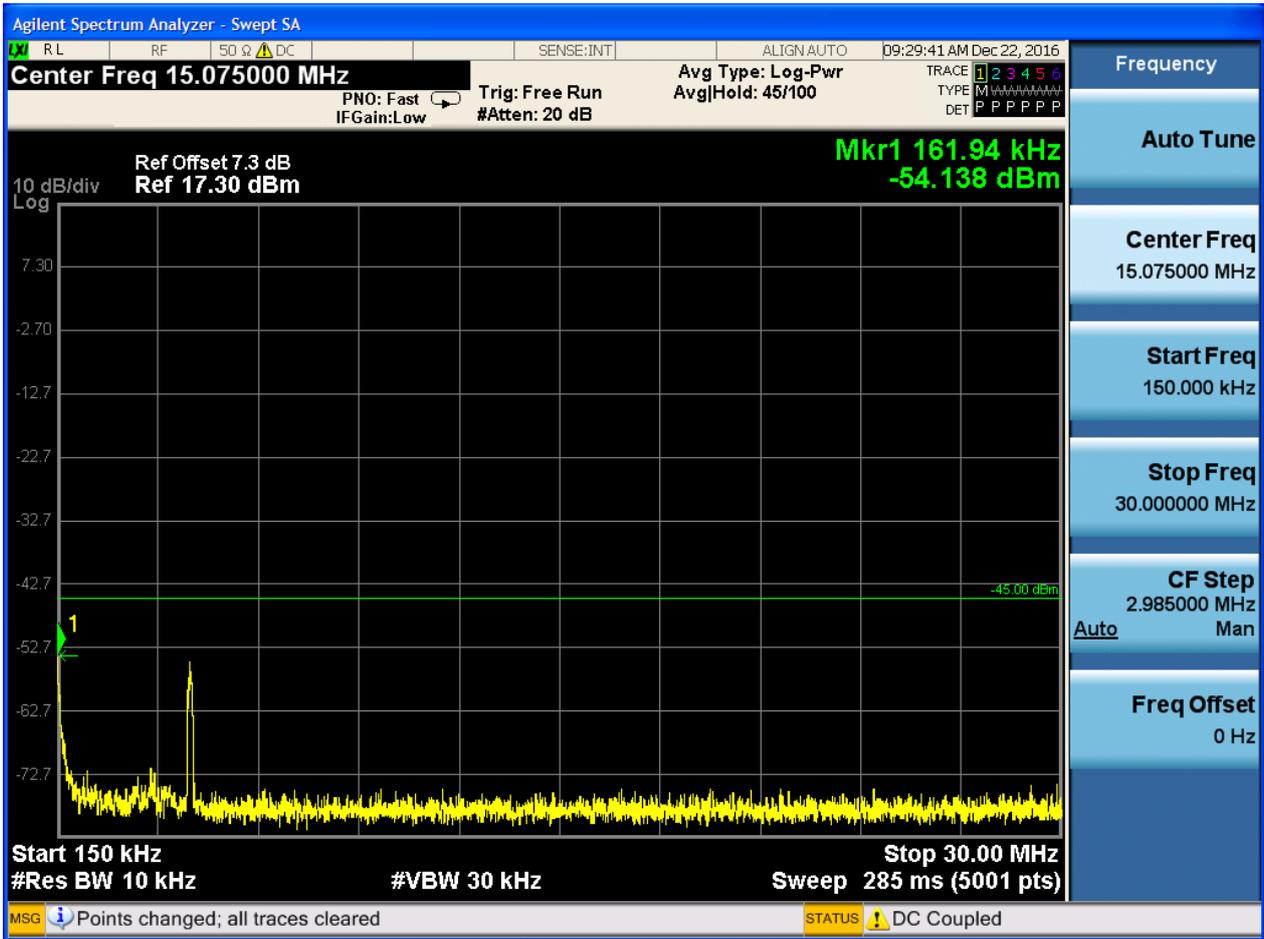


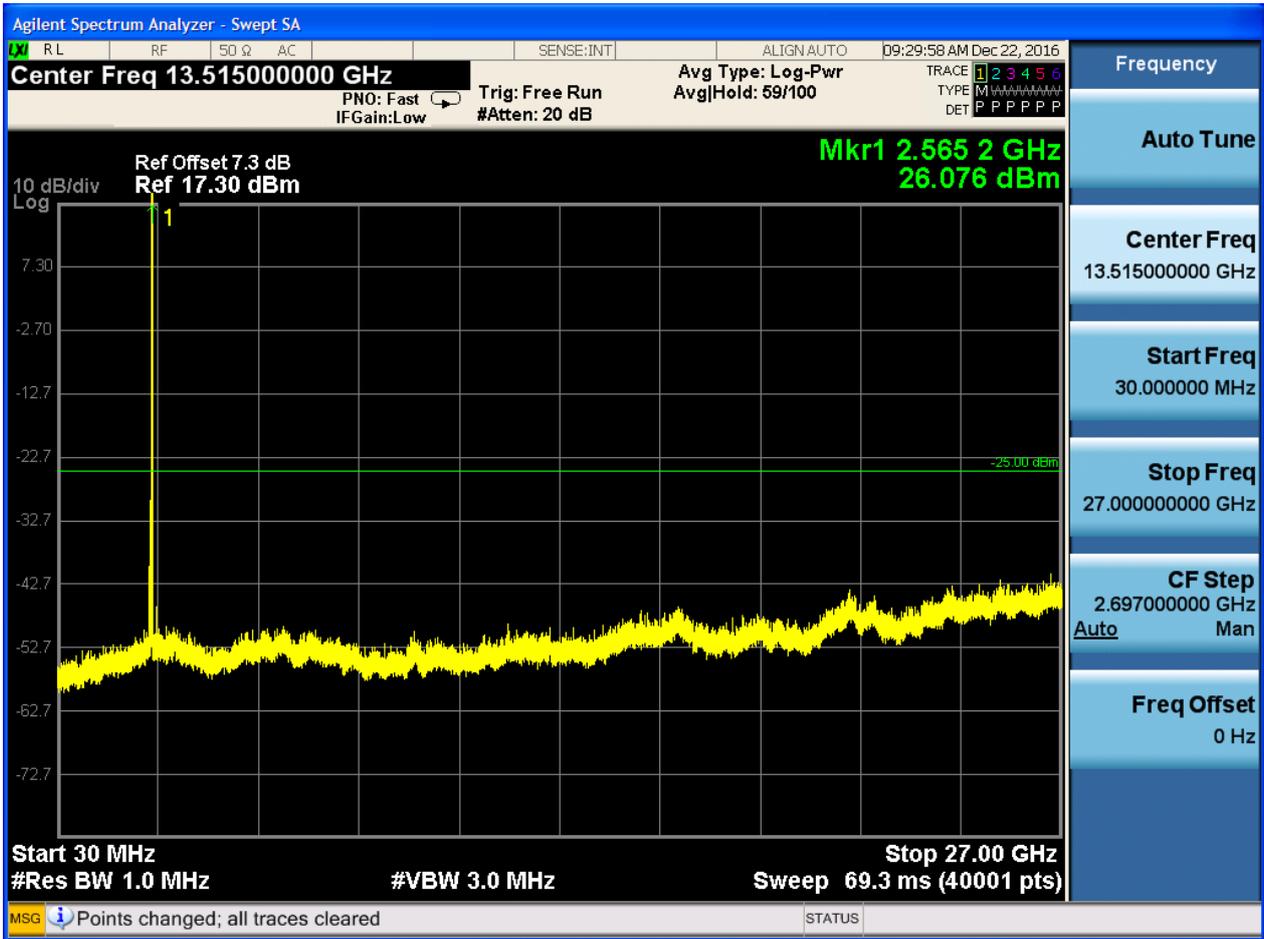


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





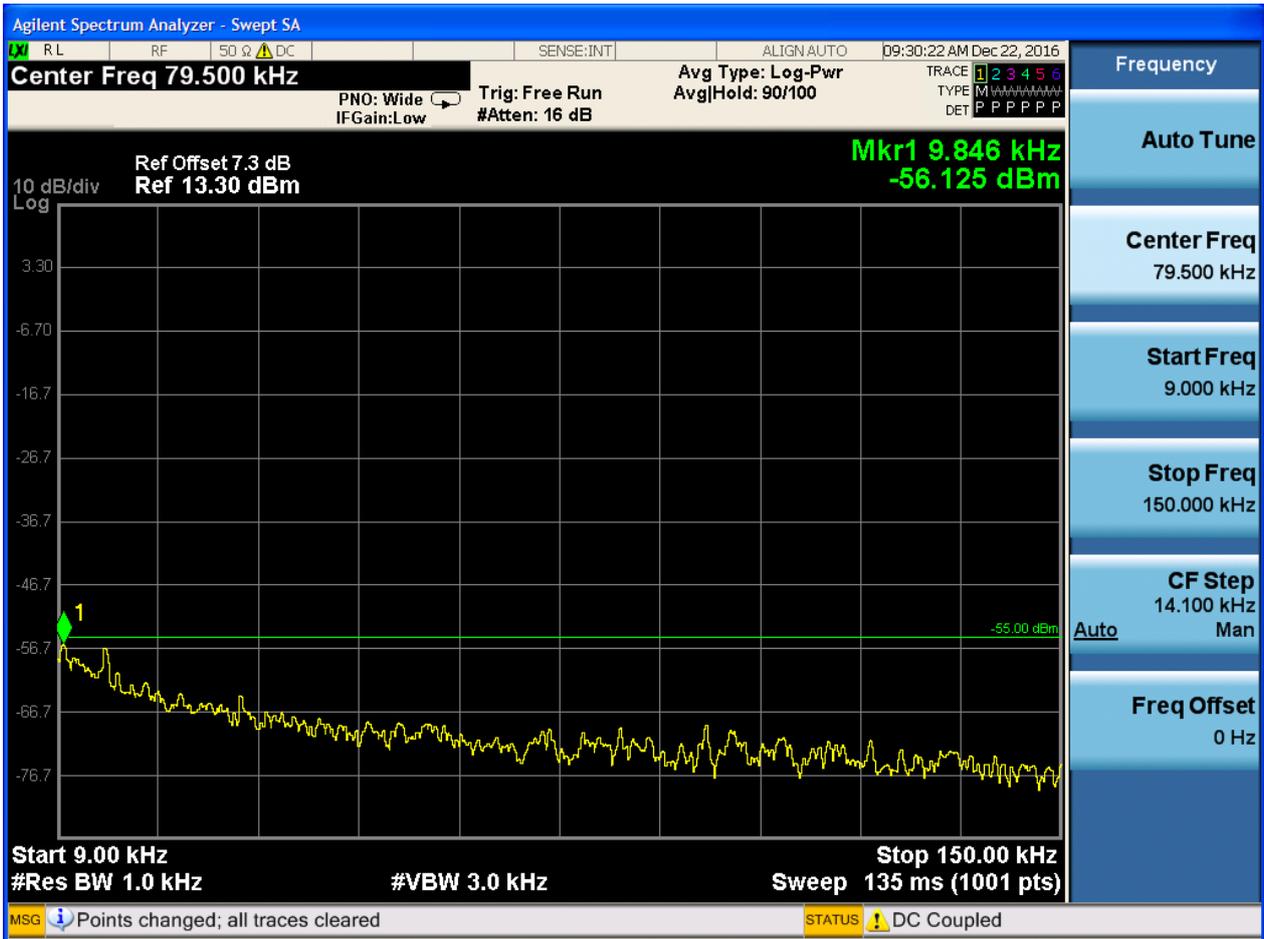


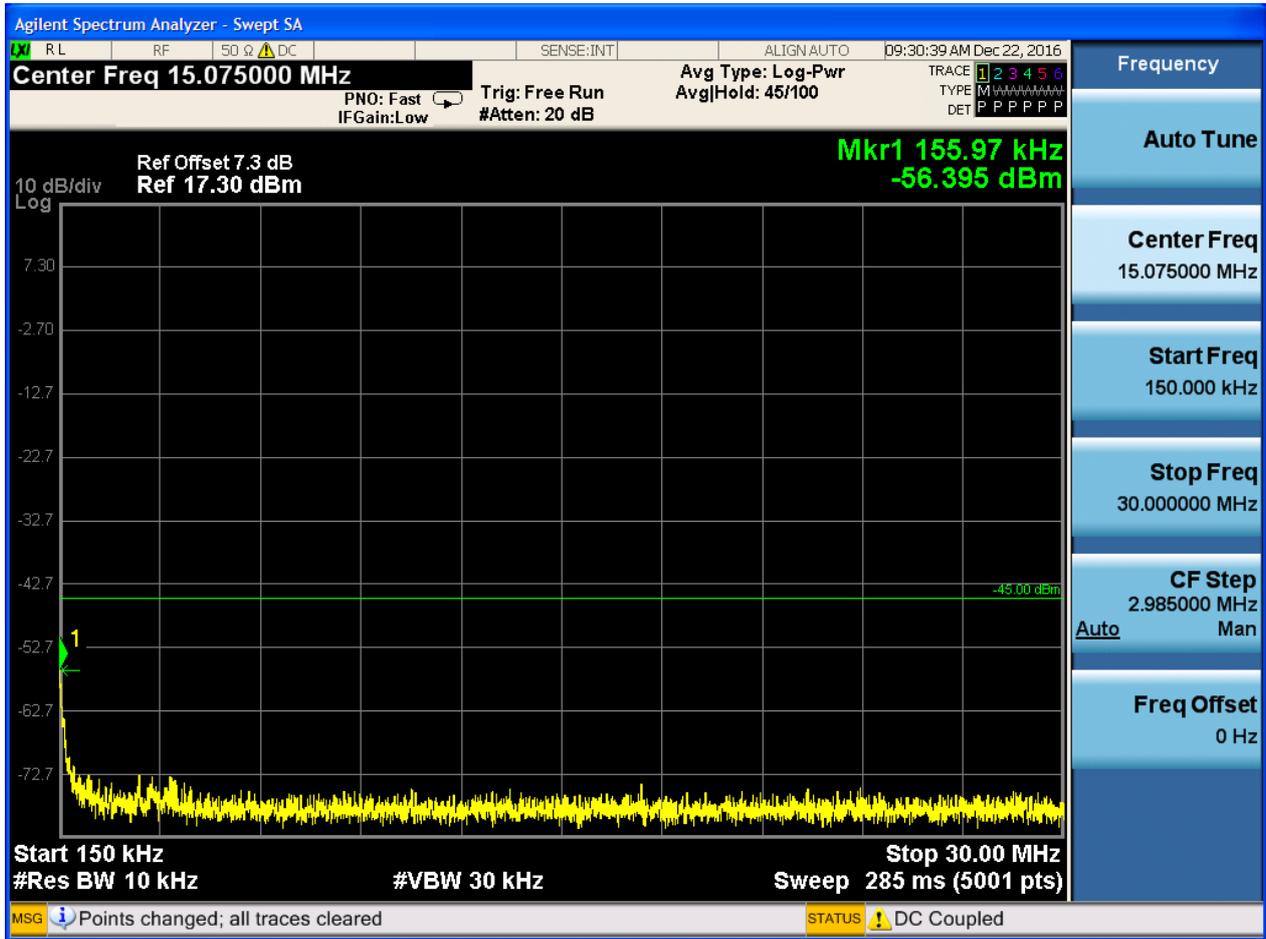


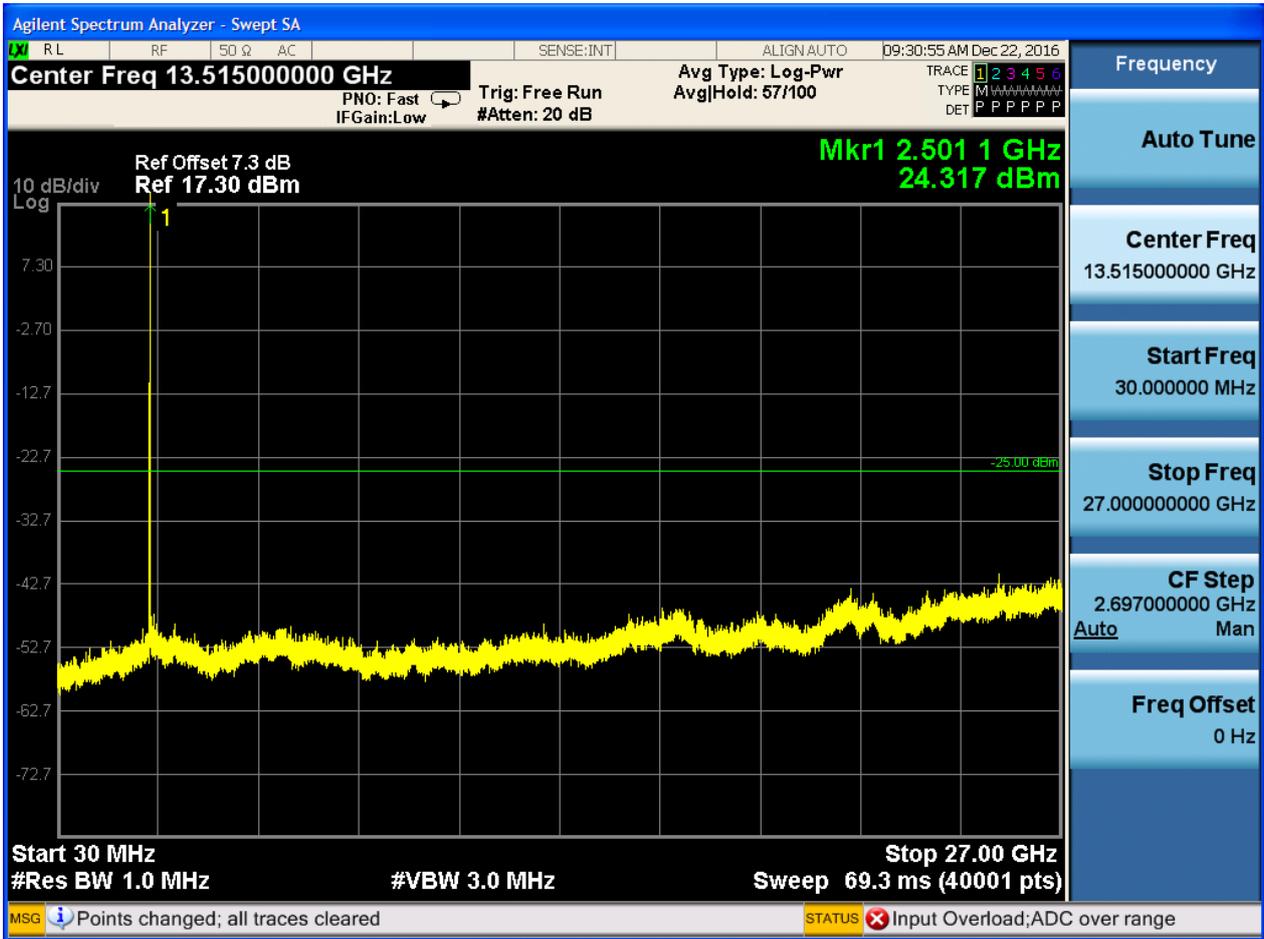
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



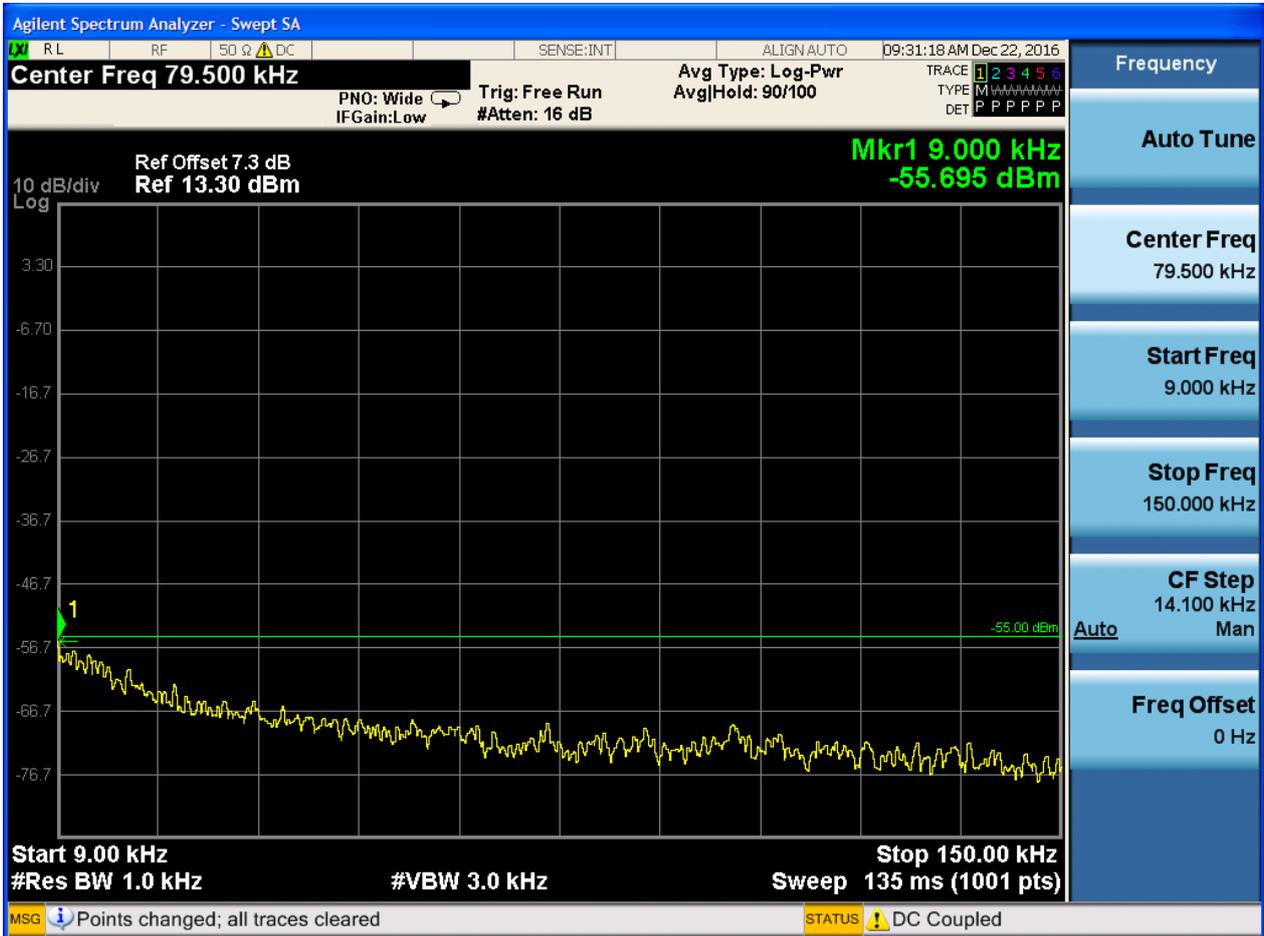


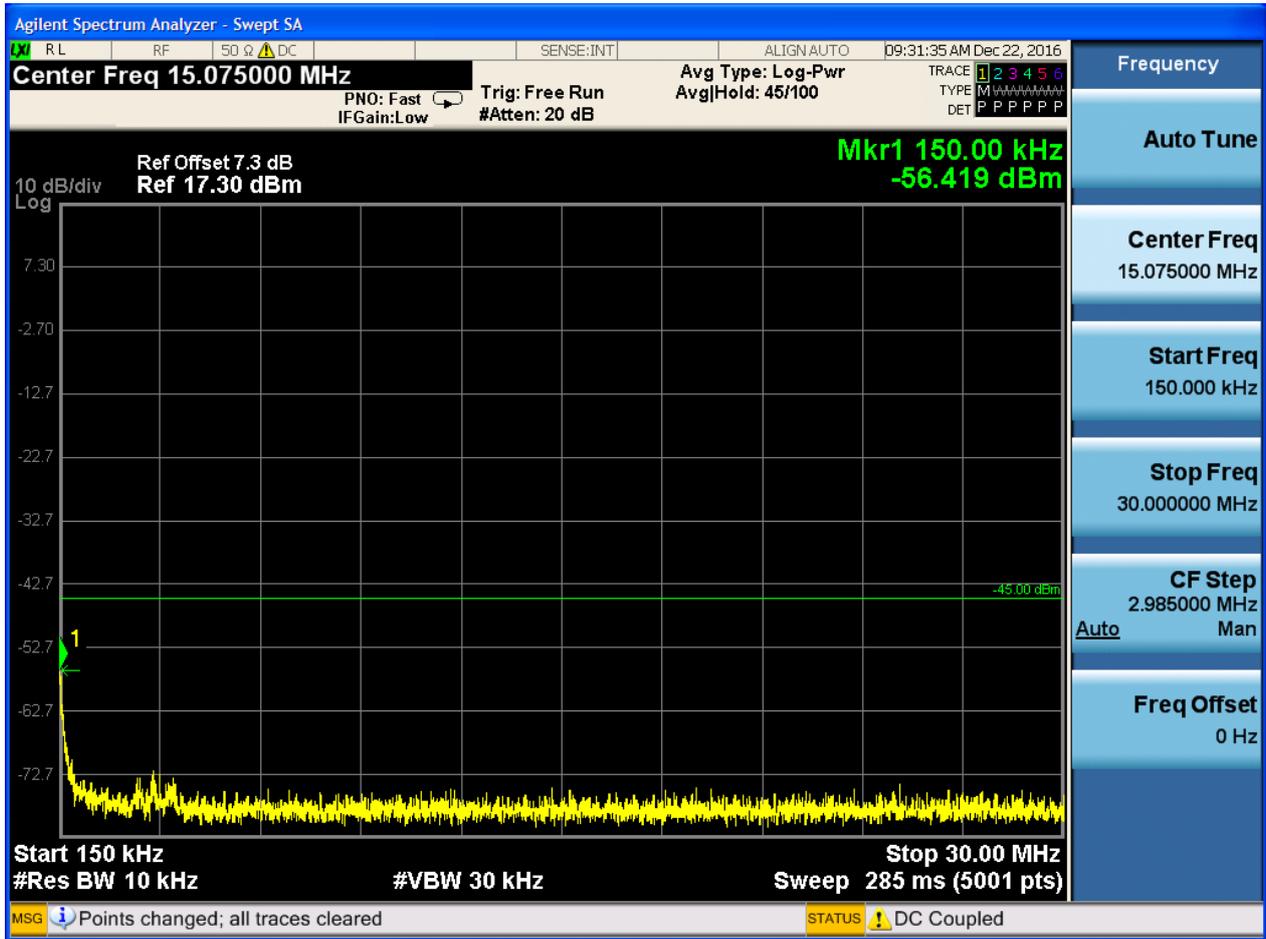


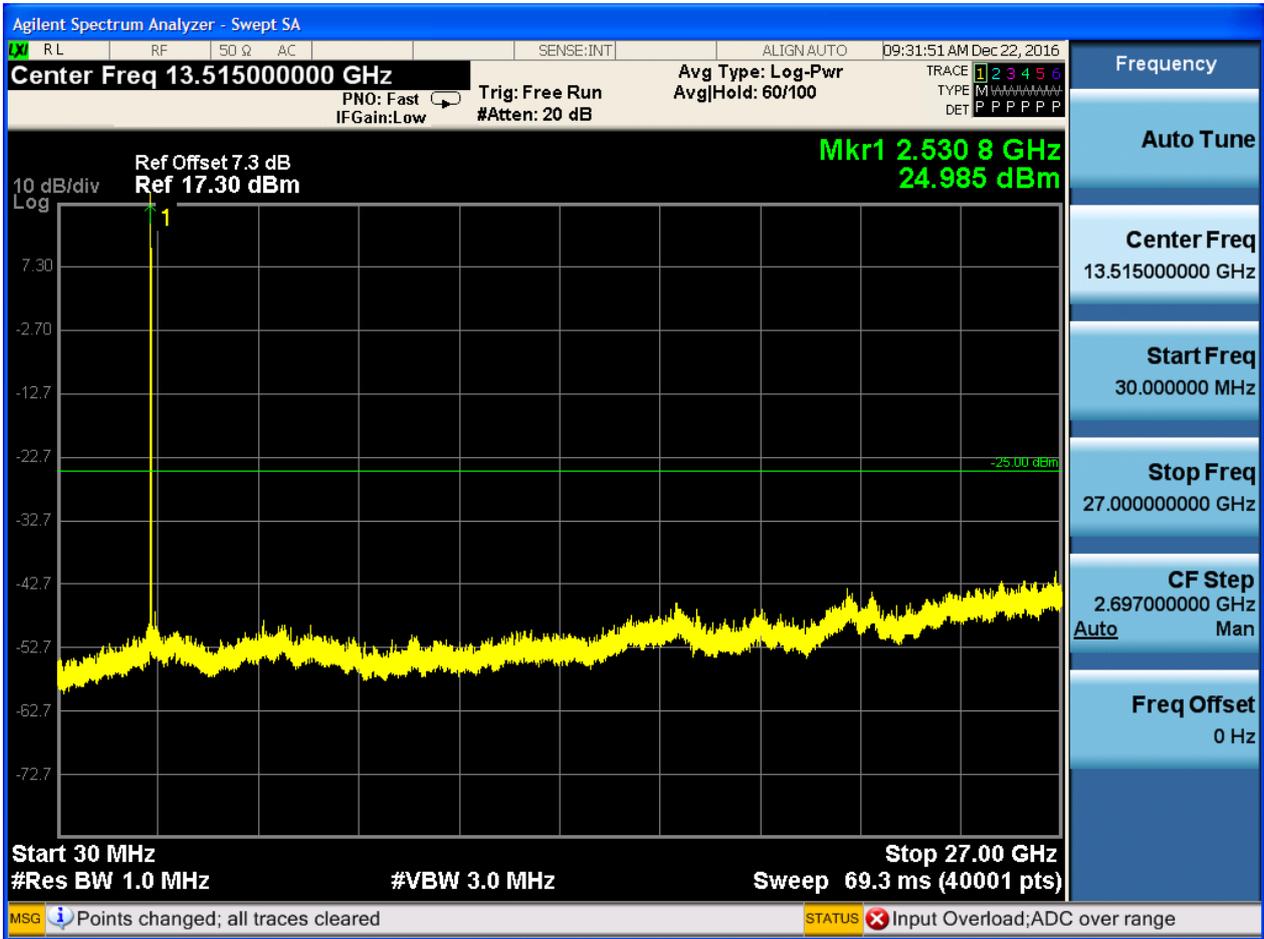


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



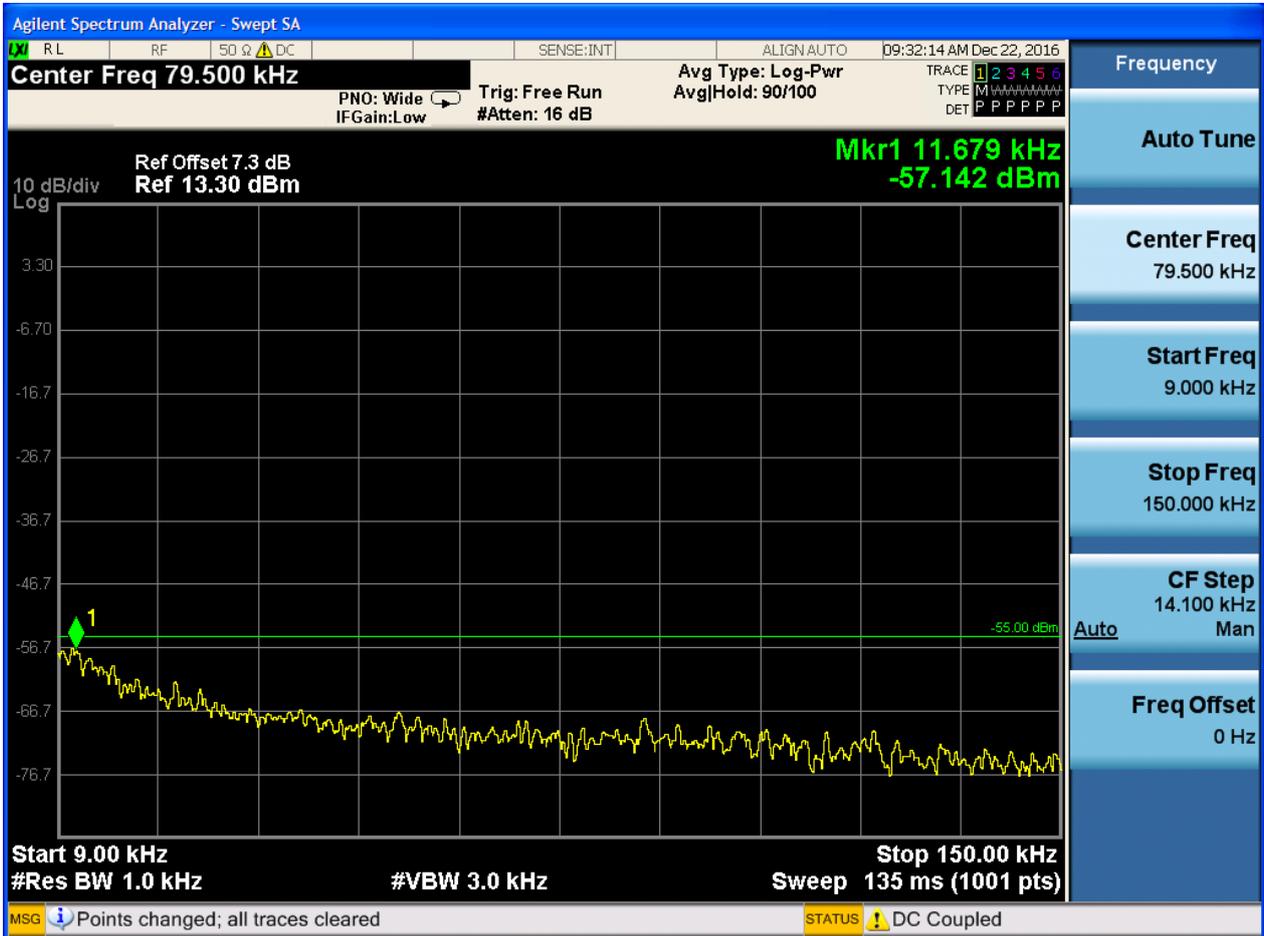


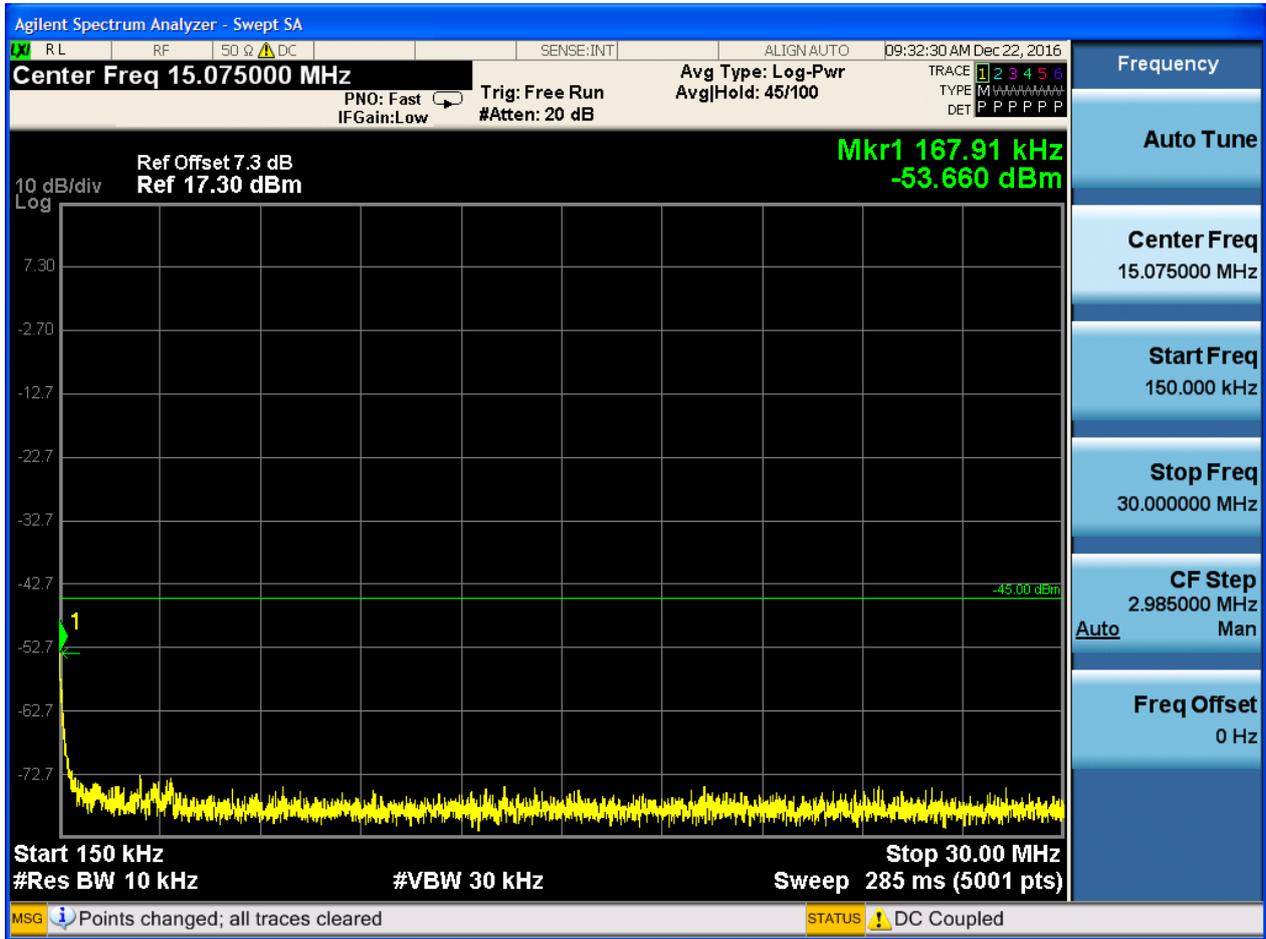


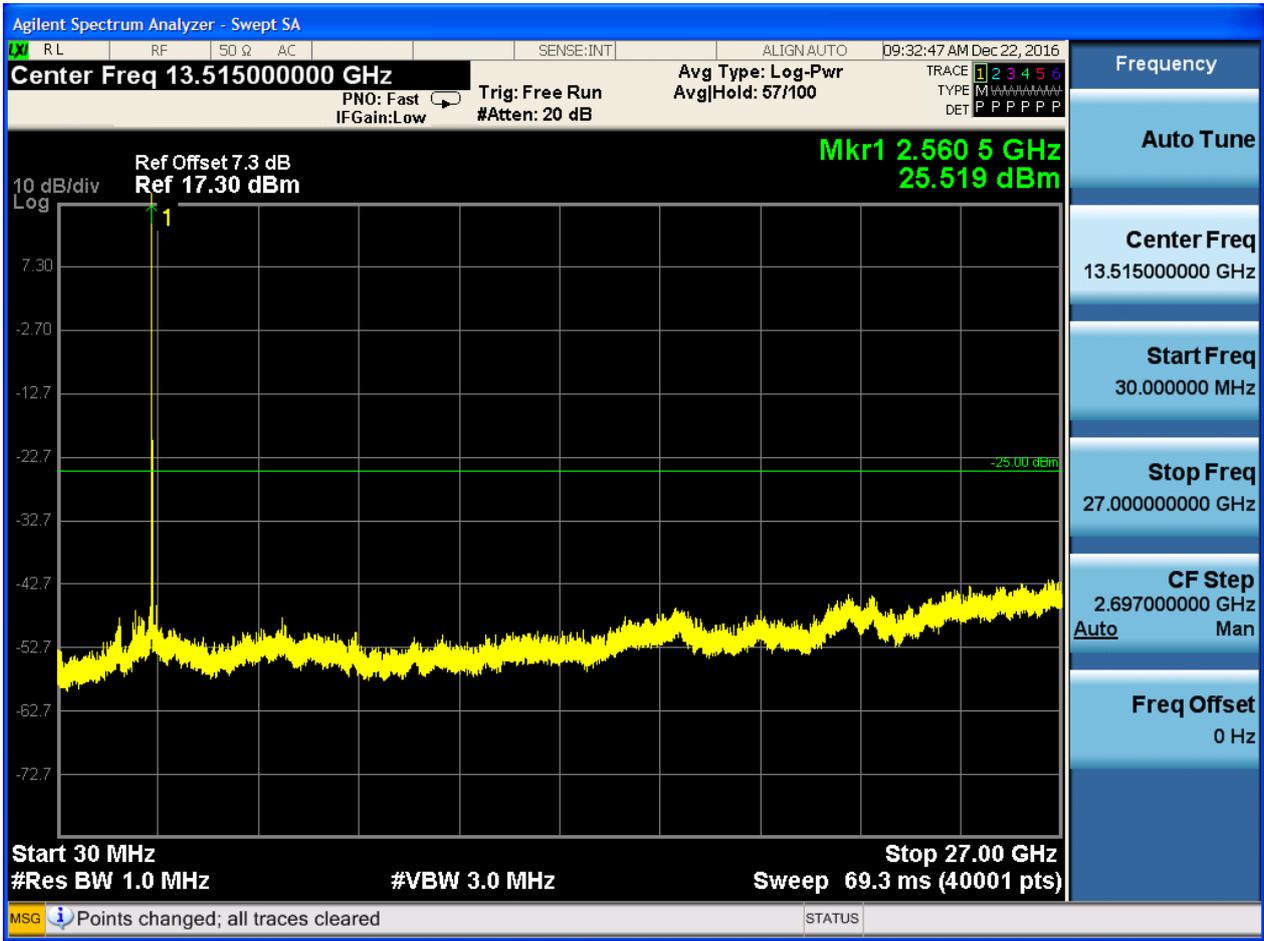


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





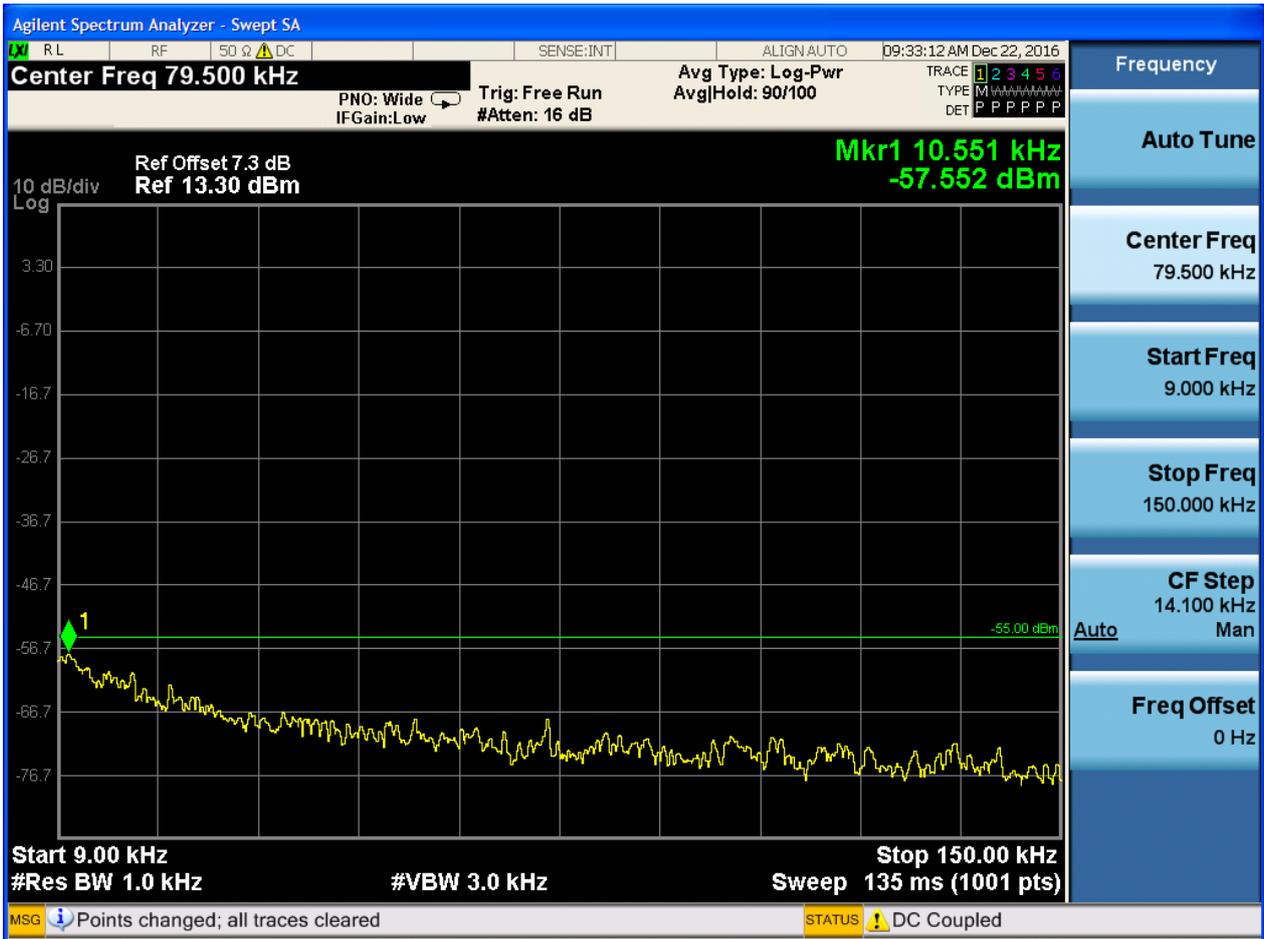


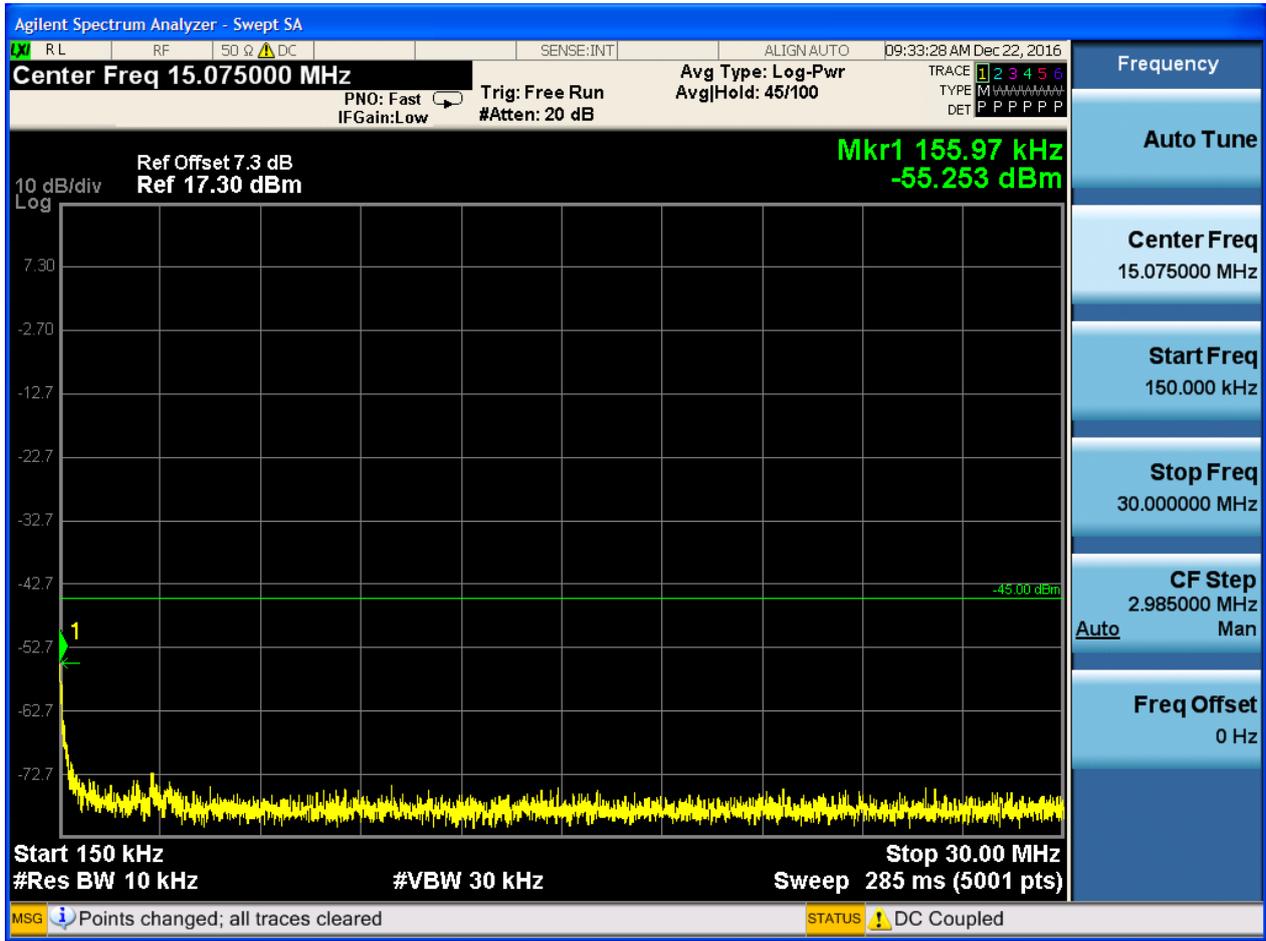


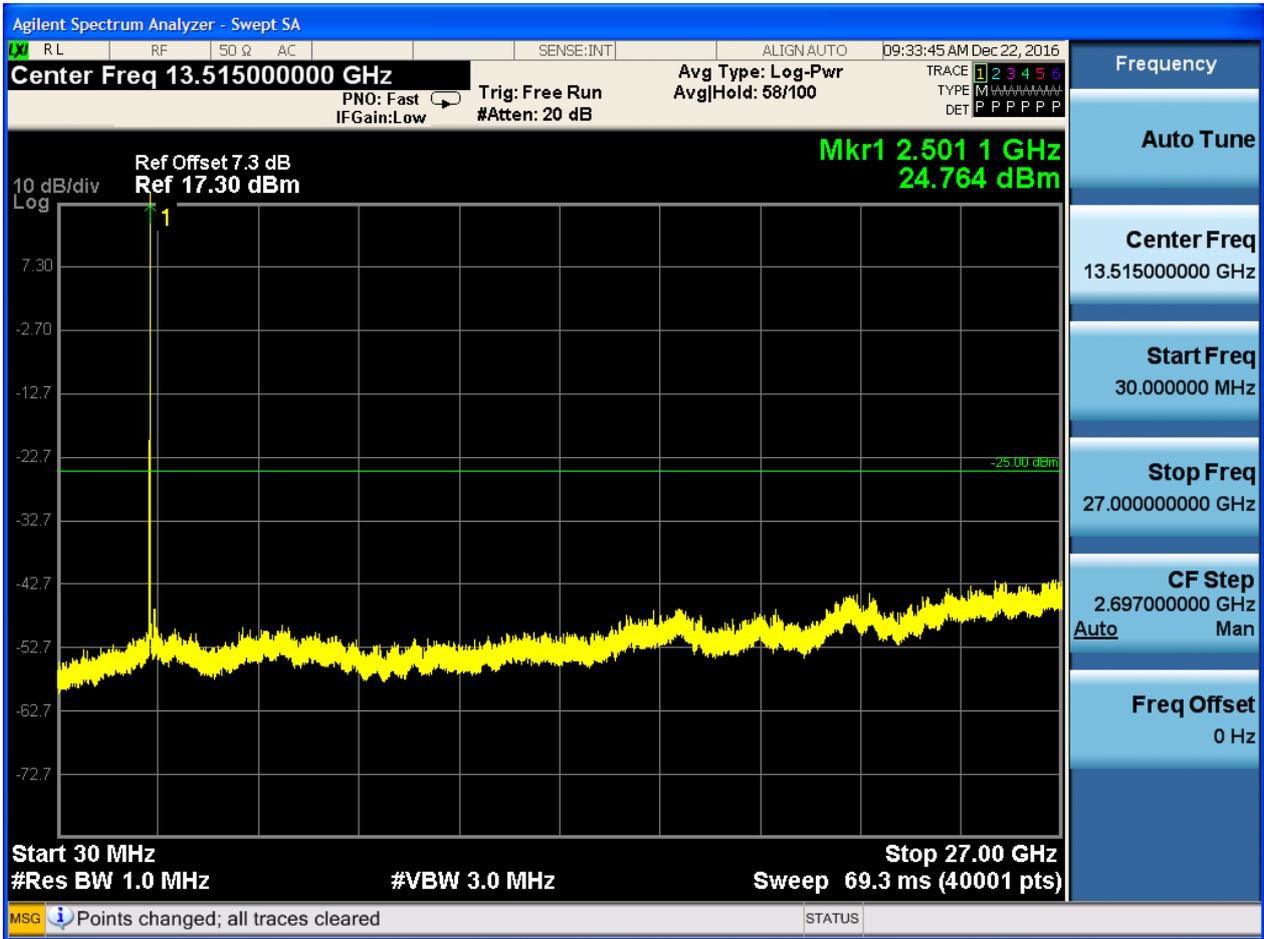
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



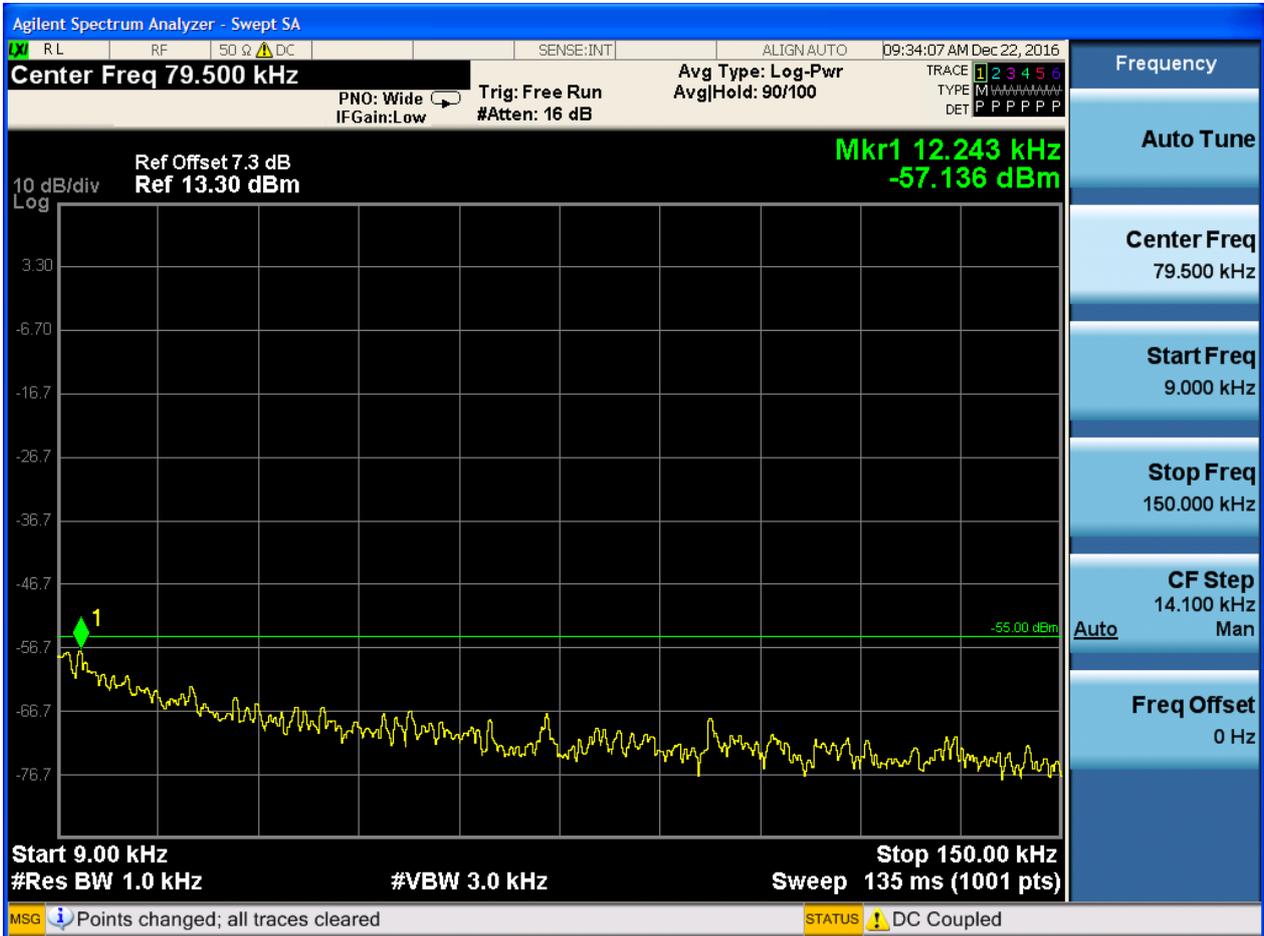


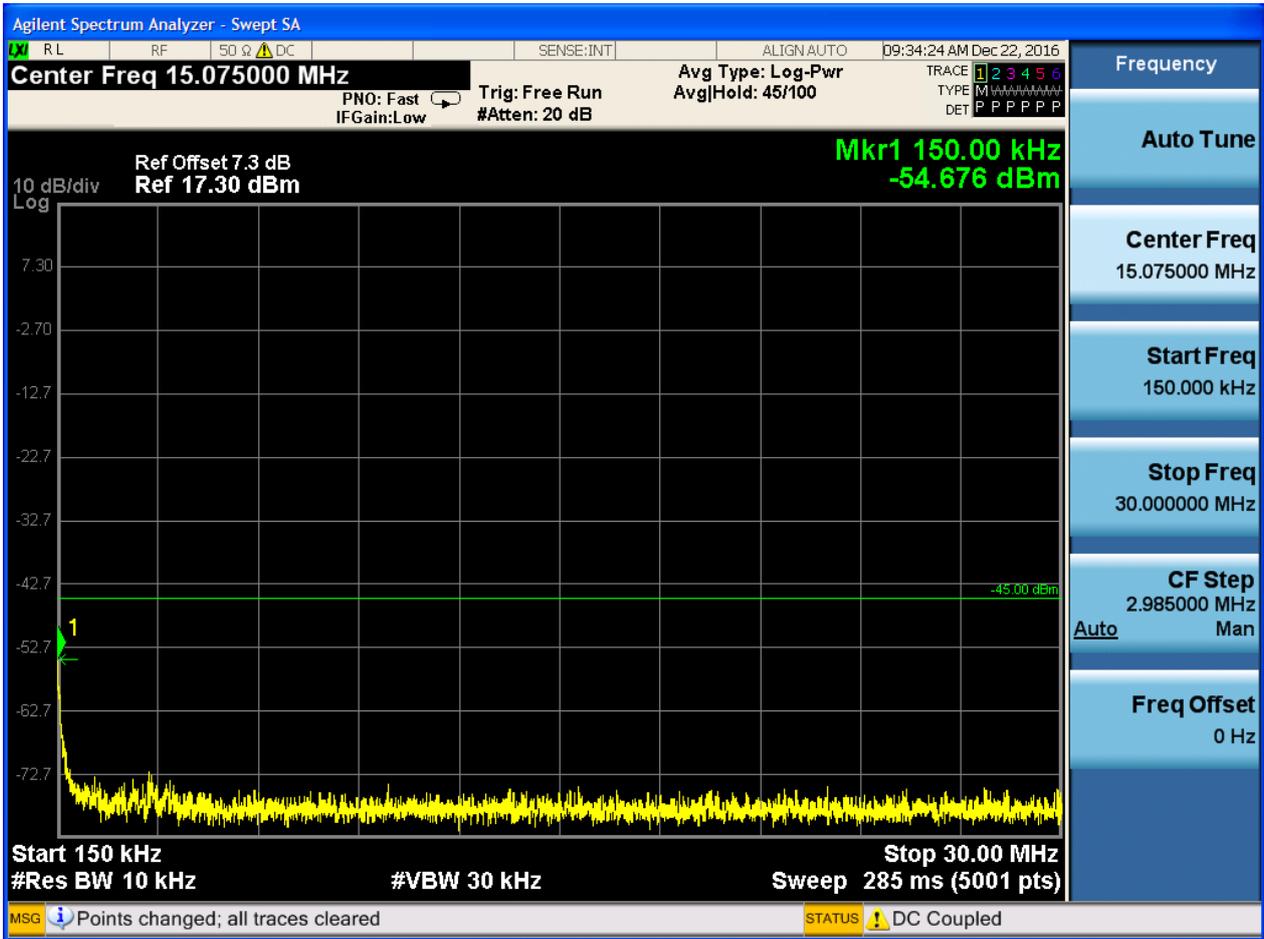


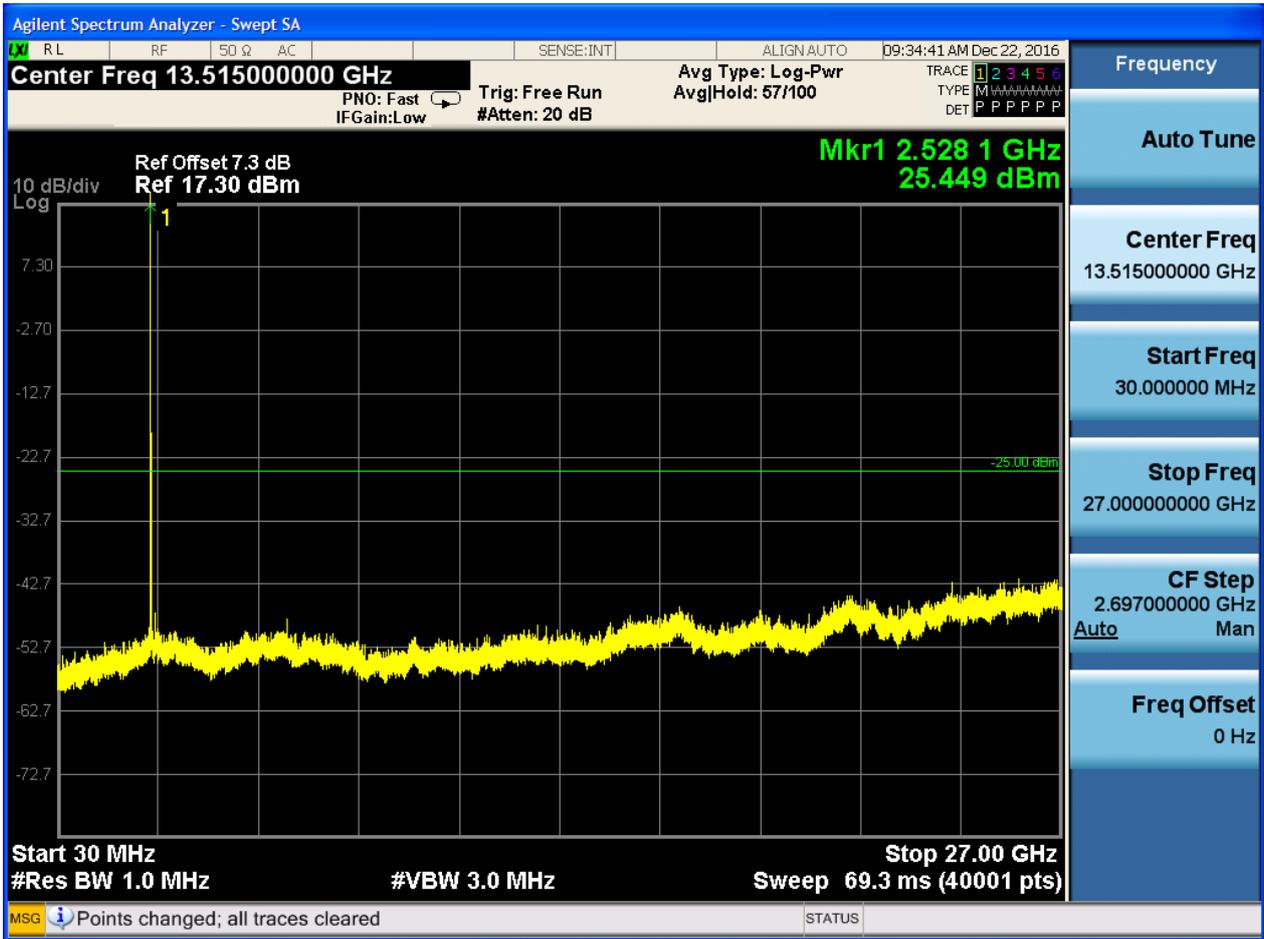


6.1.1.2.3.2 Test Channel = MCH

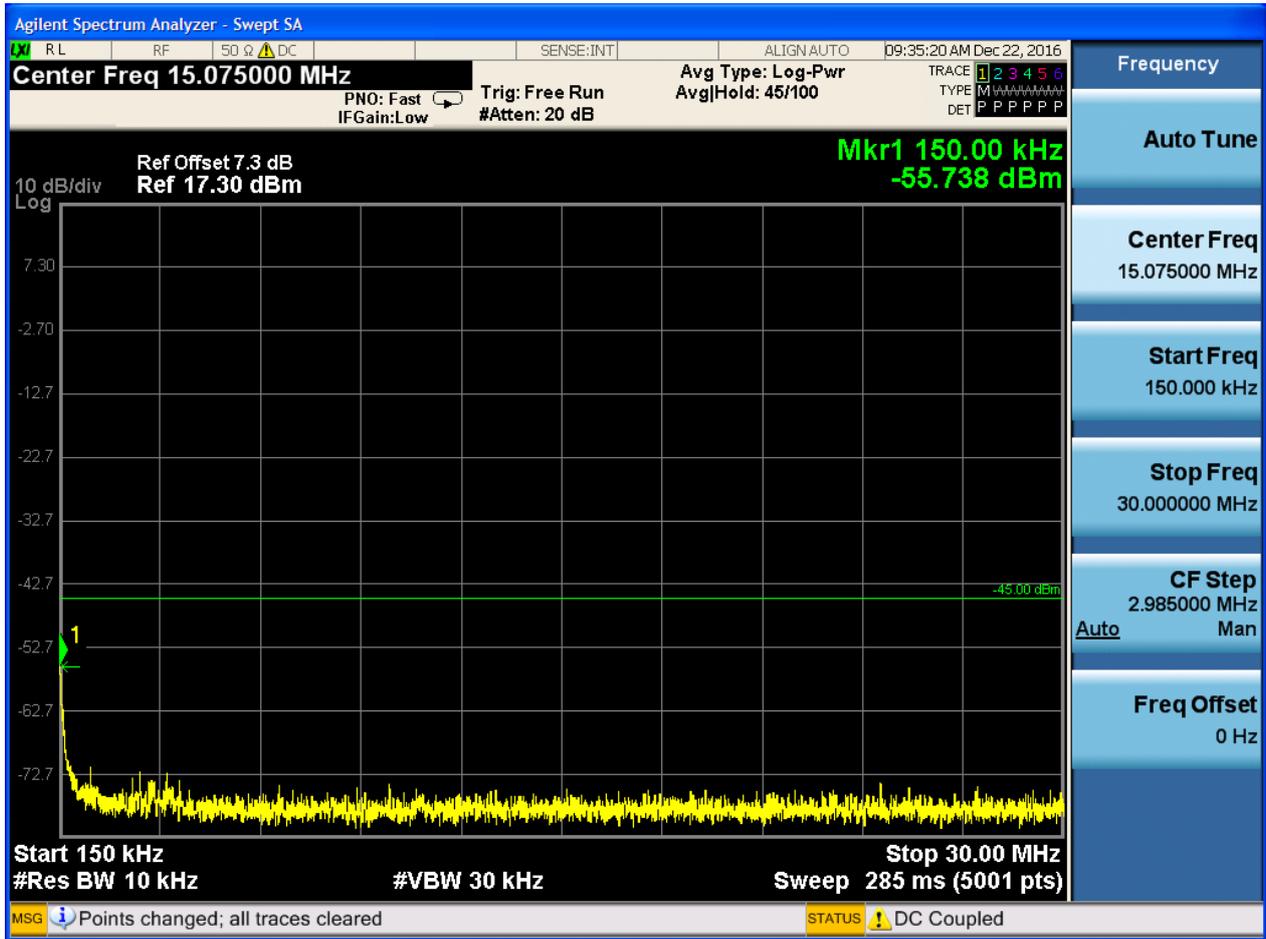
6.1.1.2.3.2.1 Test RB = RB1#0

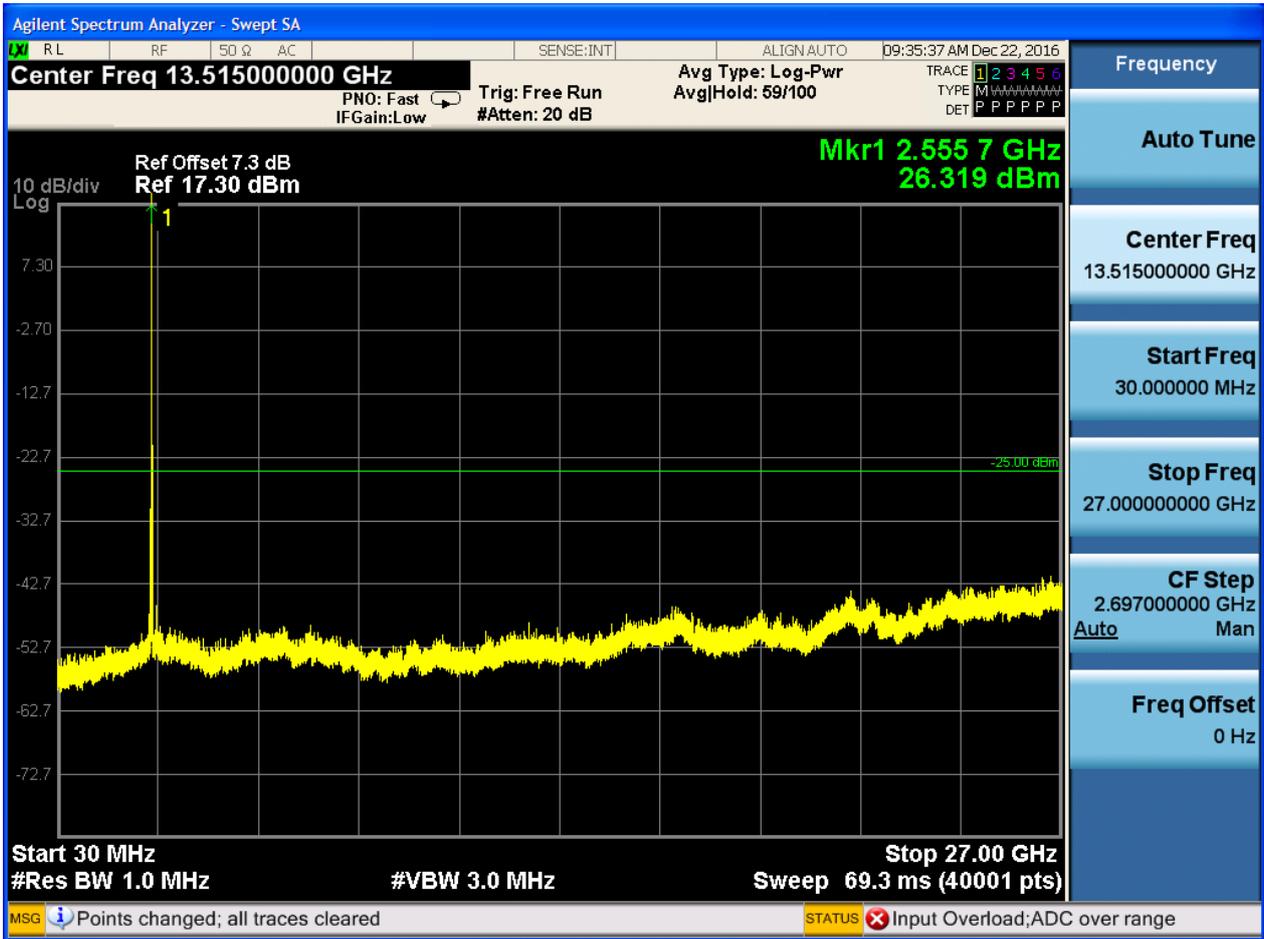










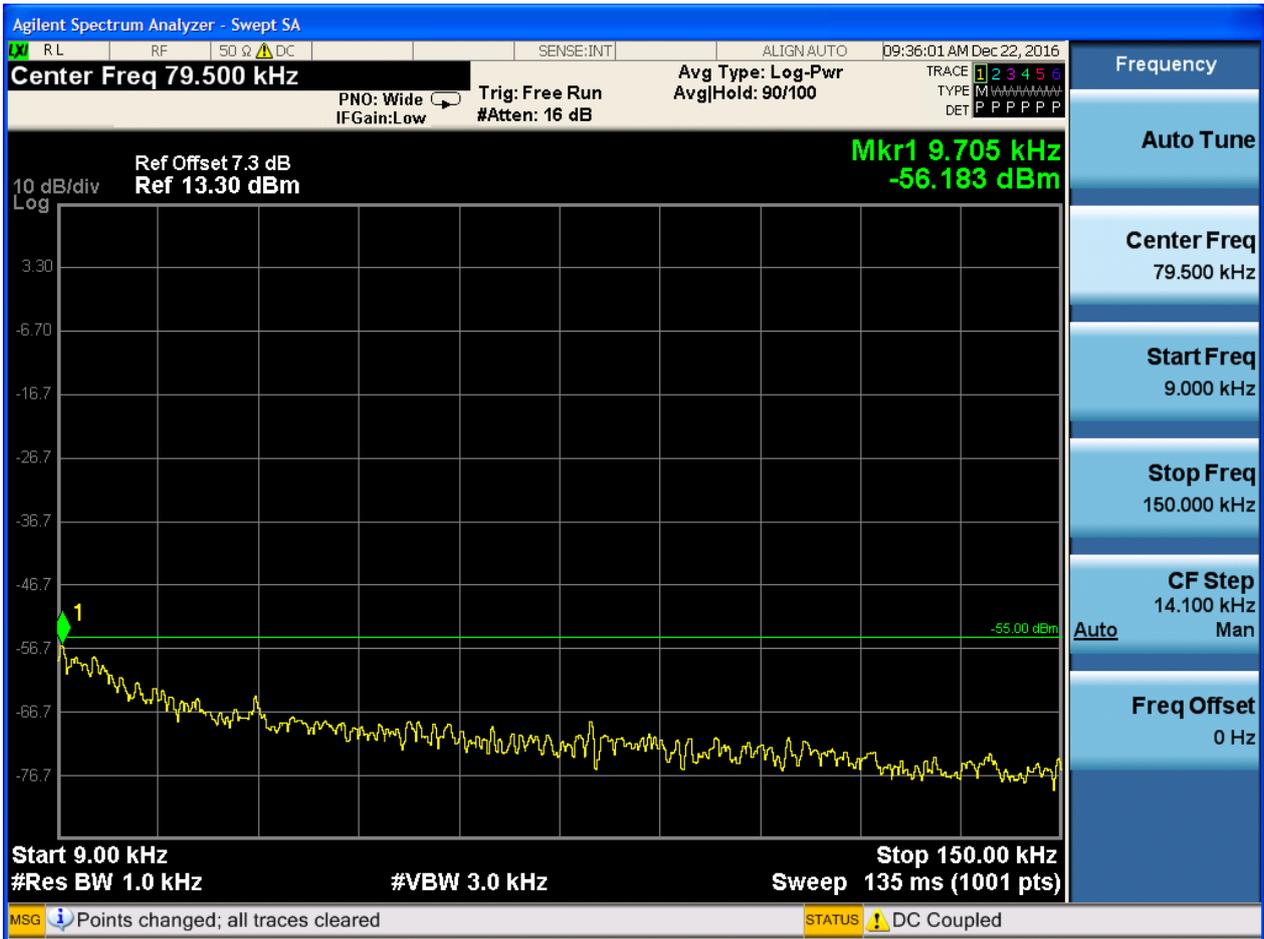




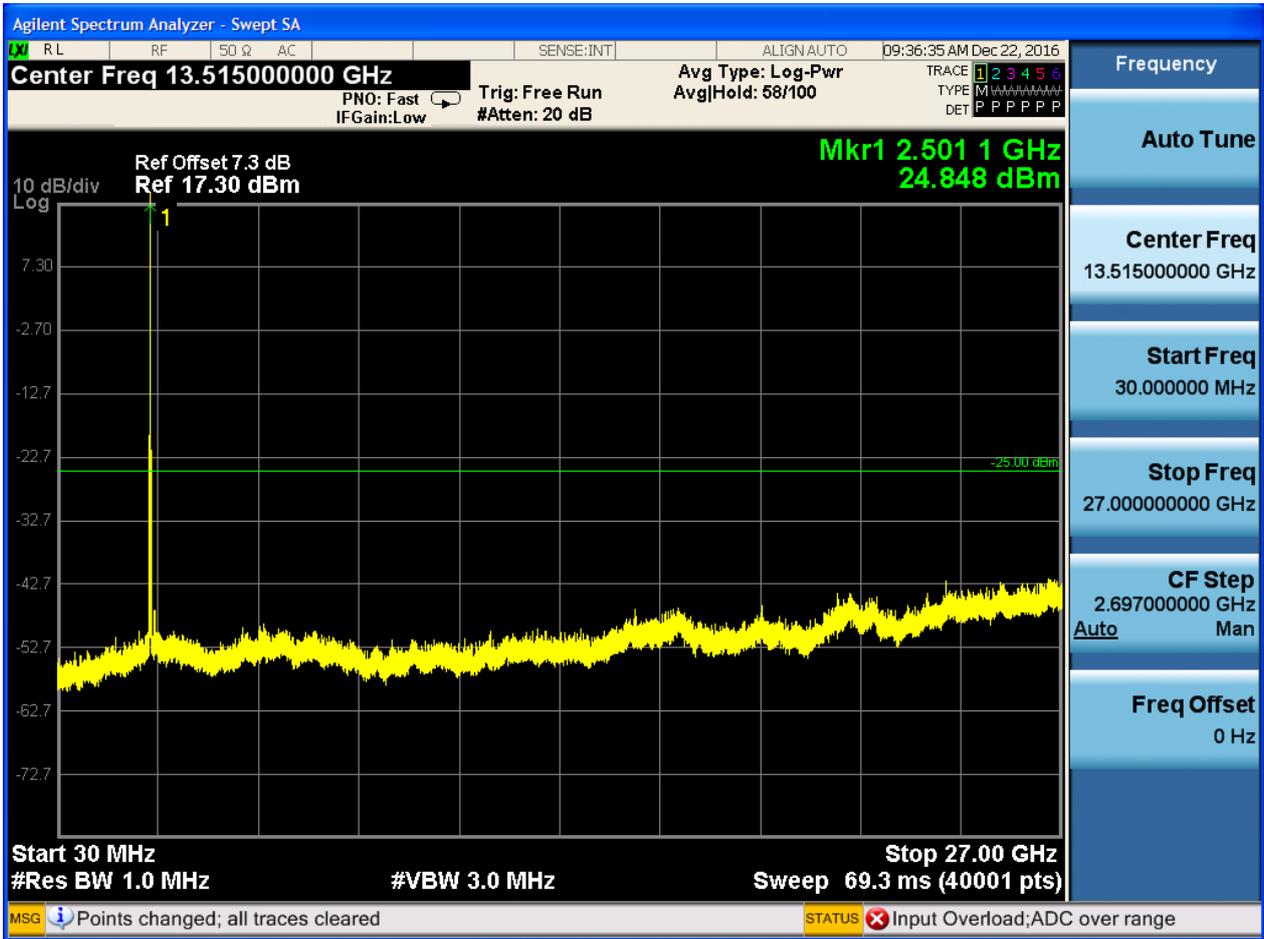
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



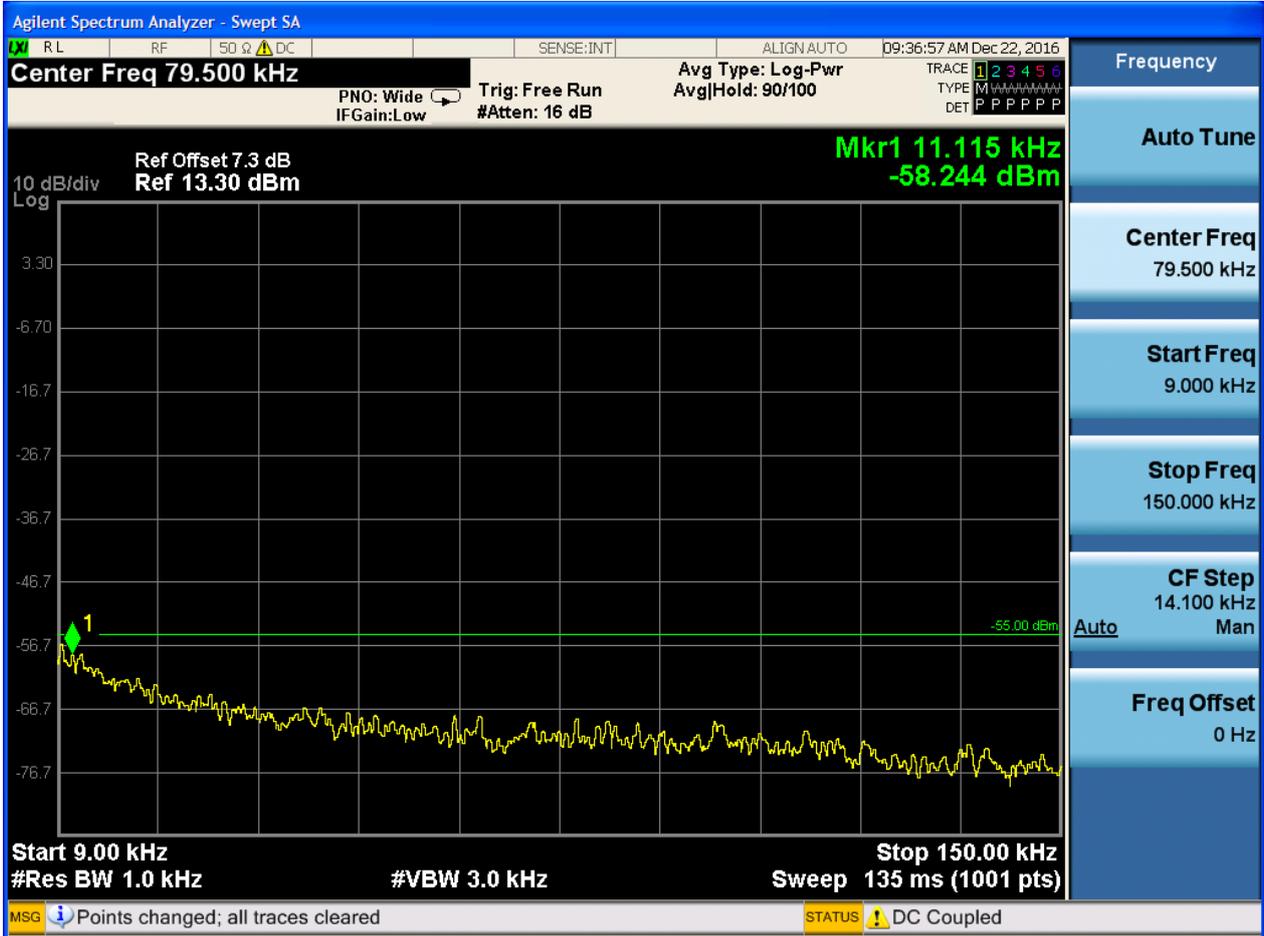


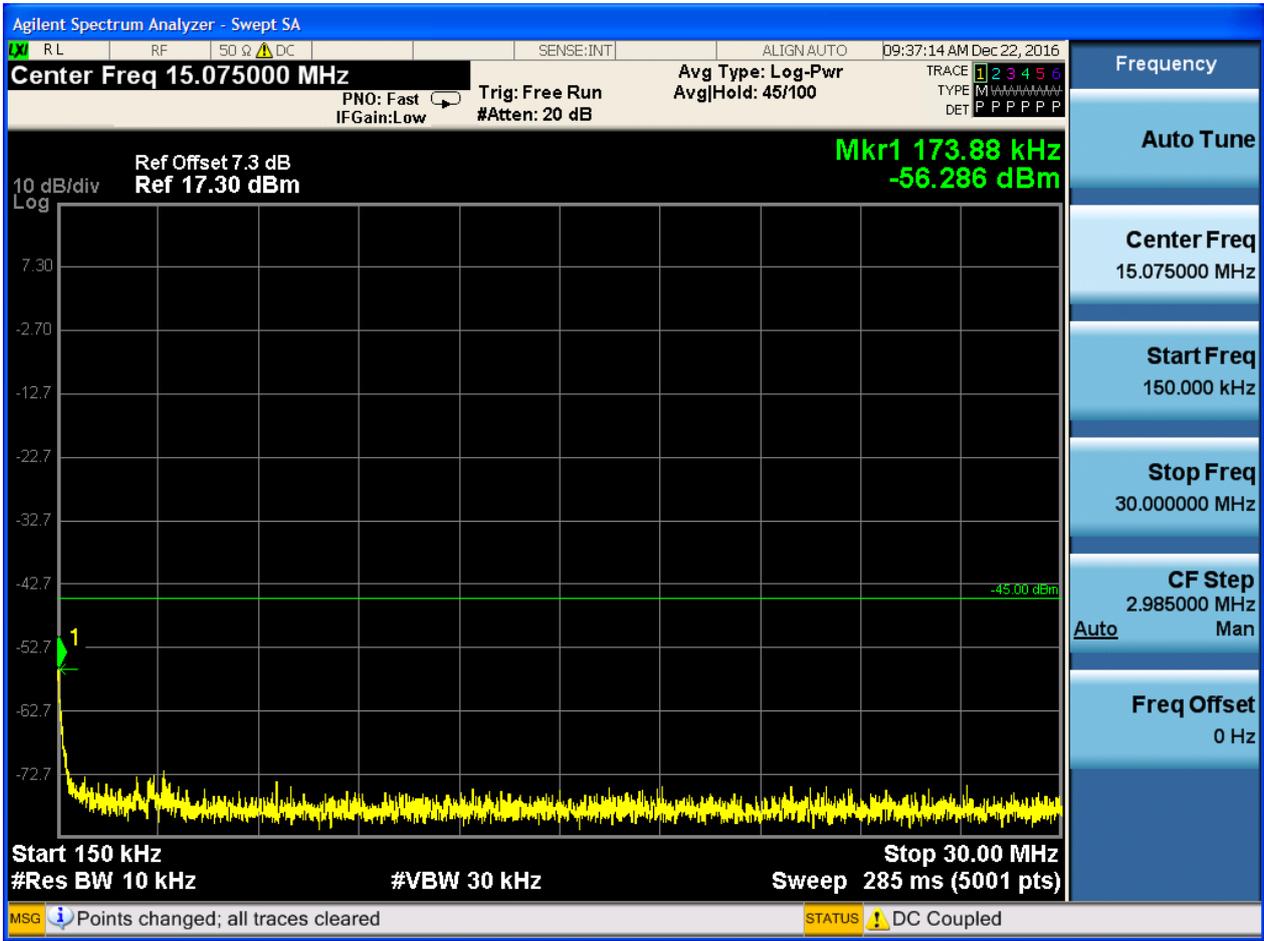


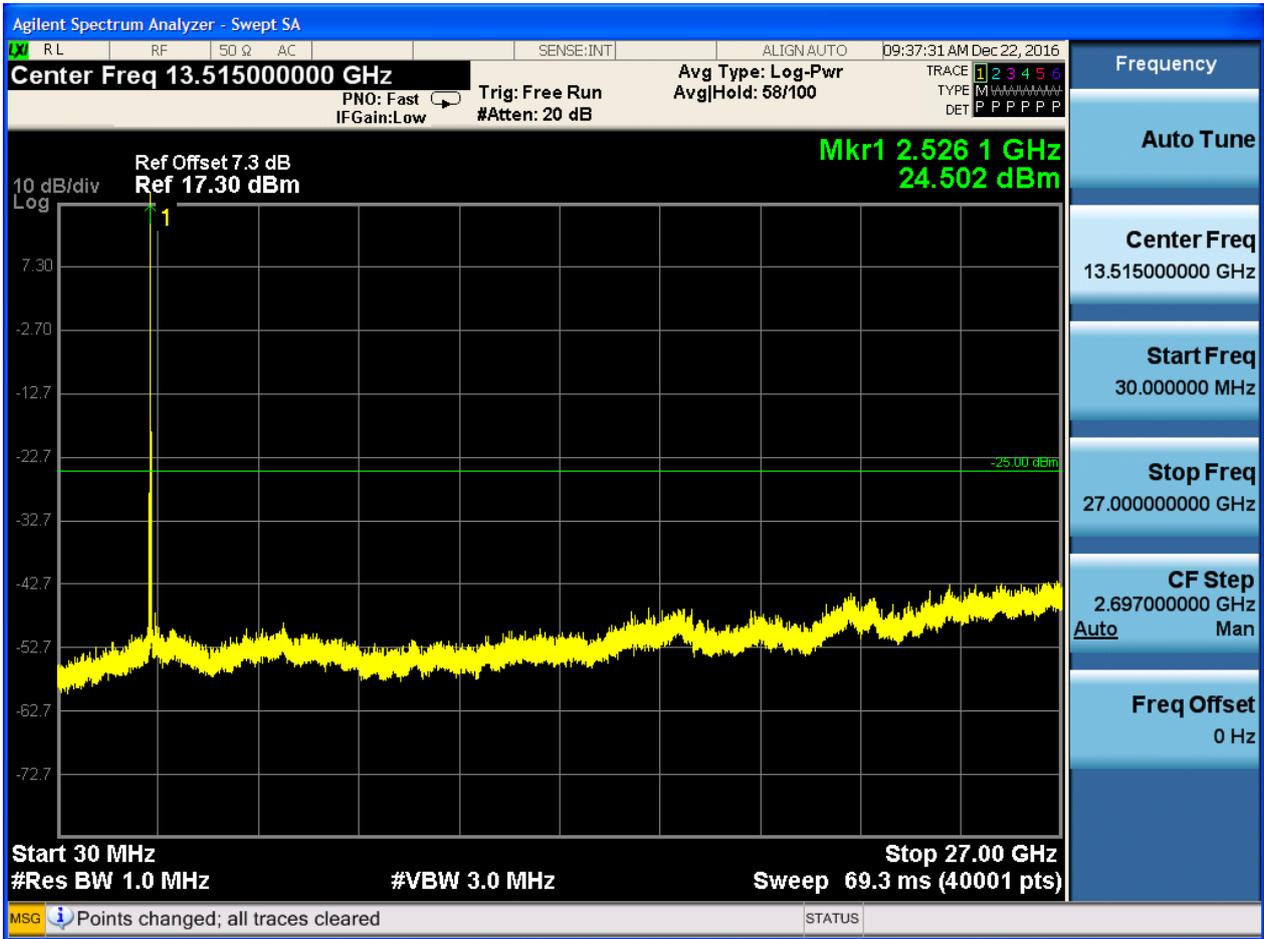


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



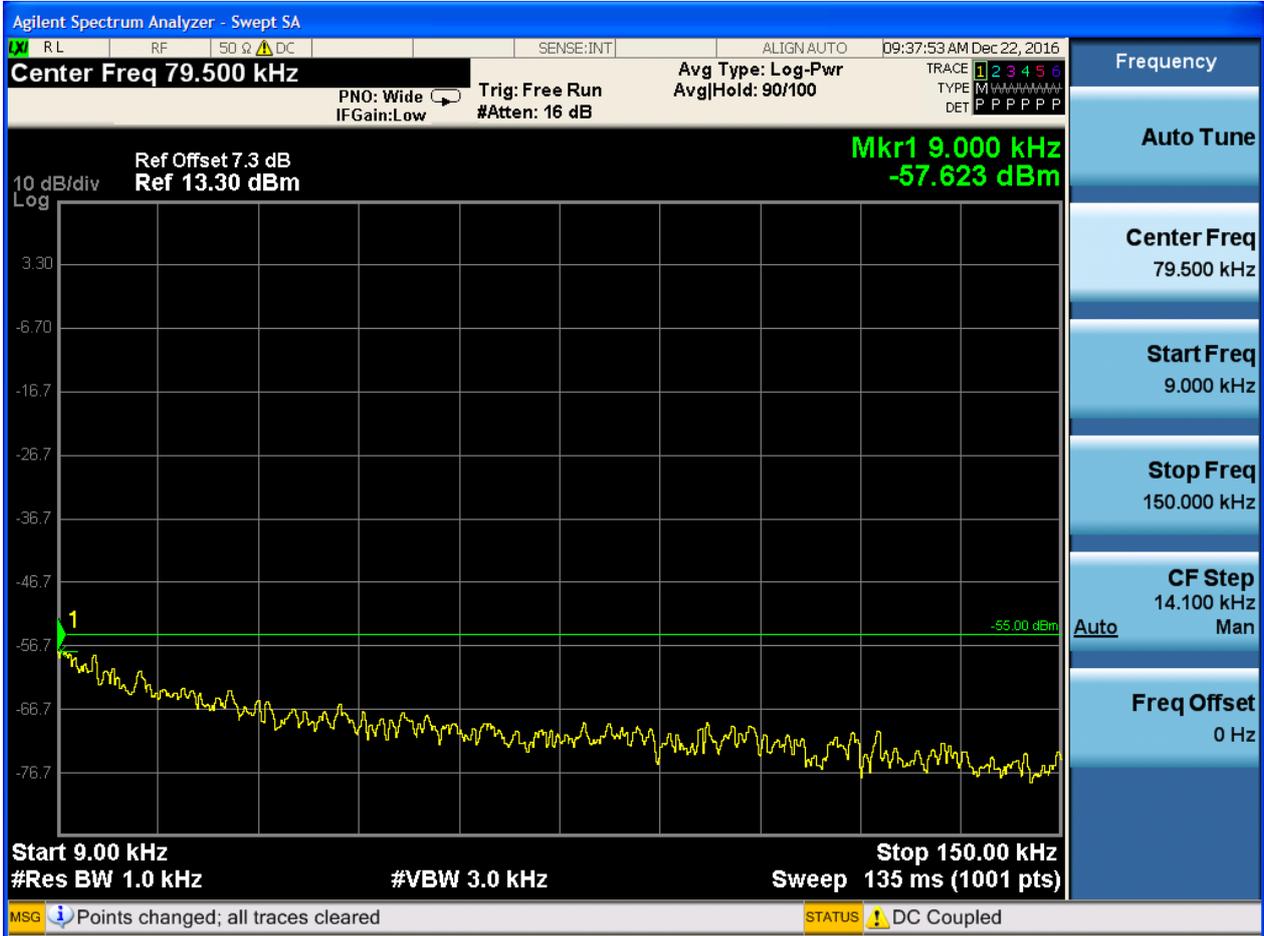




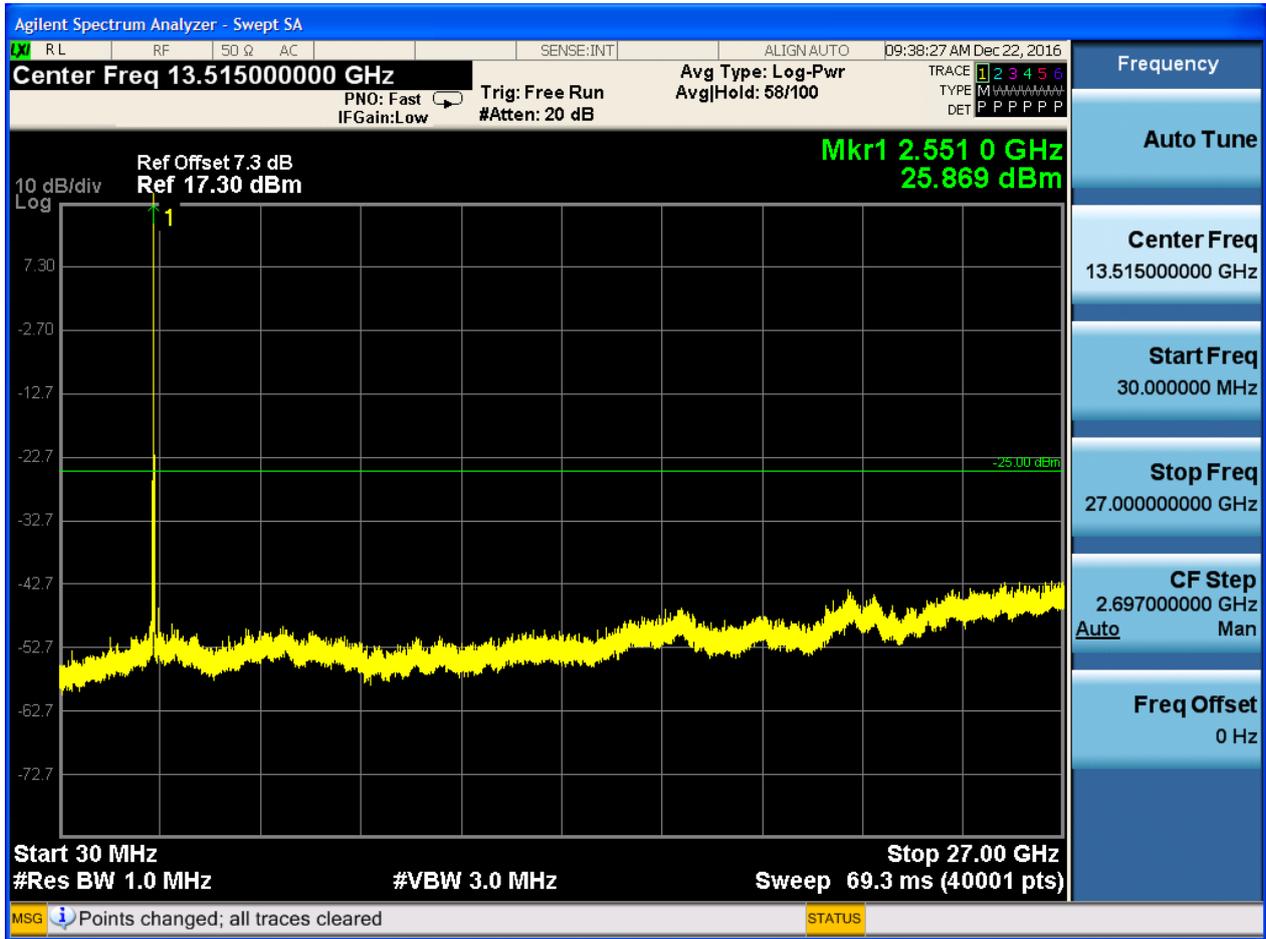


6.1.1.2.4.3 Test Channel = HCH

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

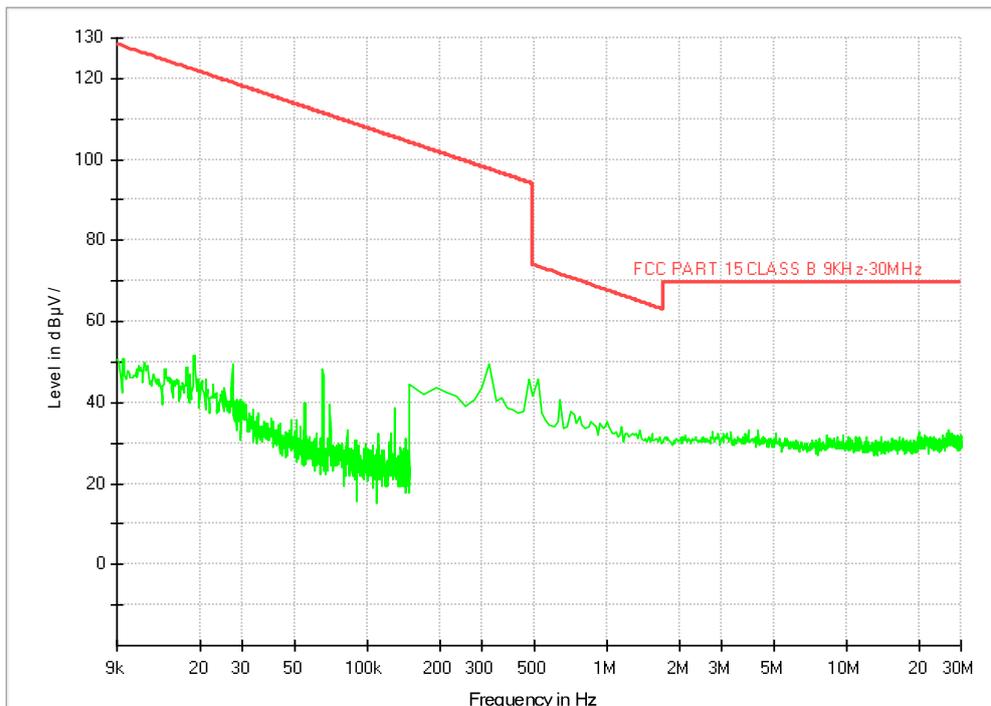
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

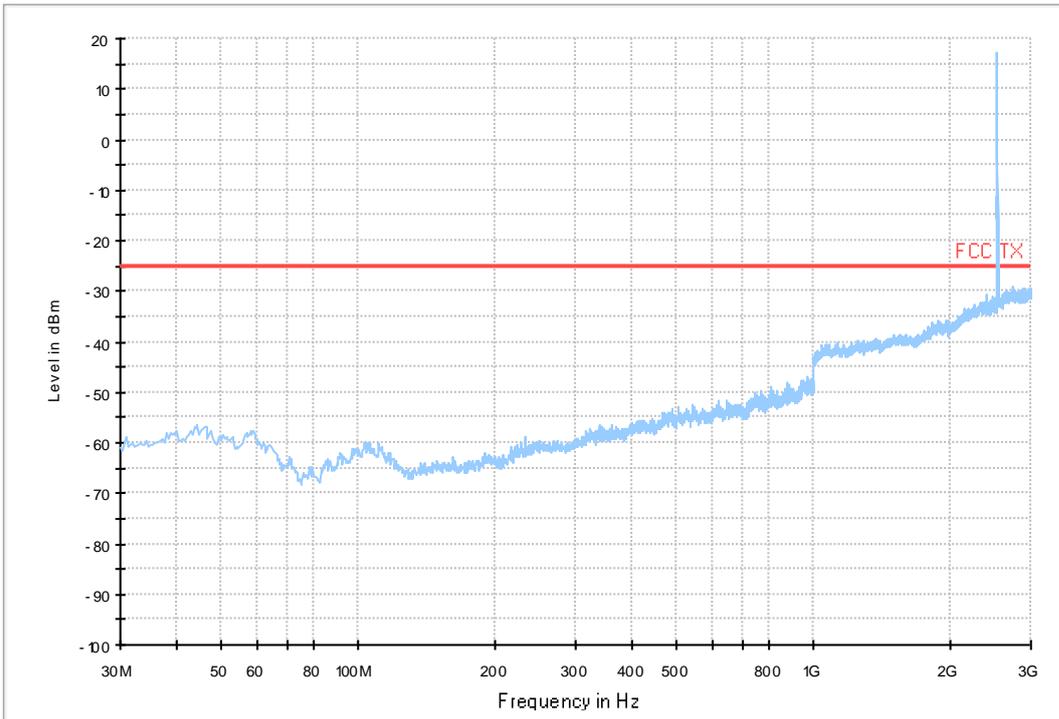
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND7

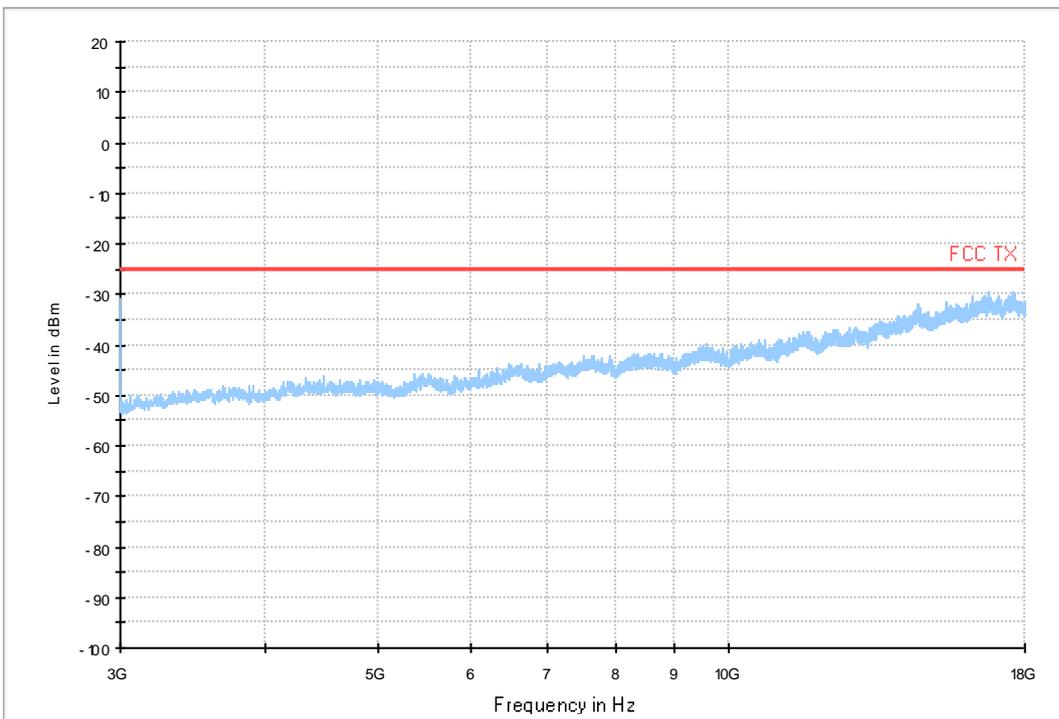
##### 7.1.1.1 Test Bandwidth = 5

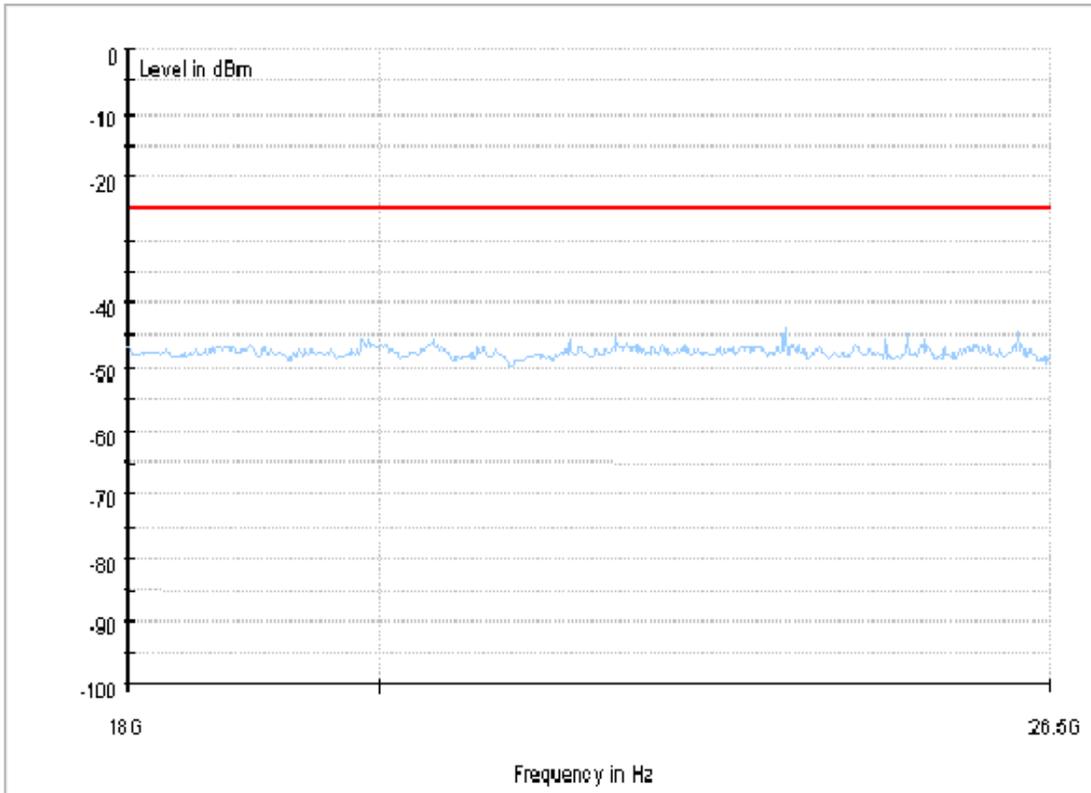


RSE-TXDIRECTOR LTE 73841\_L

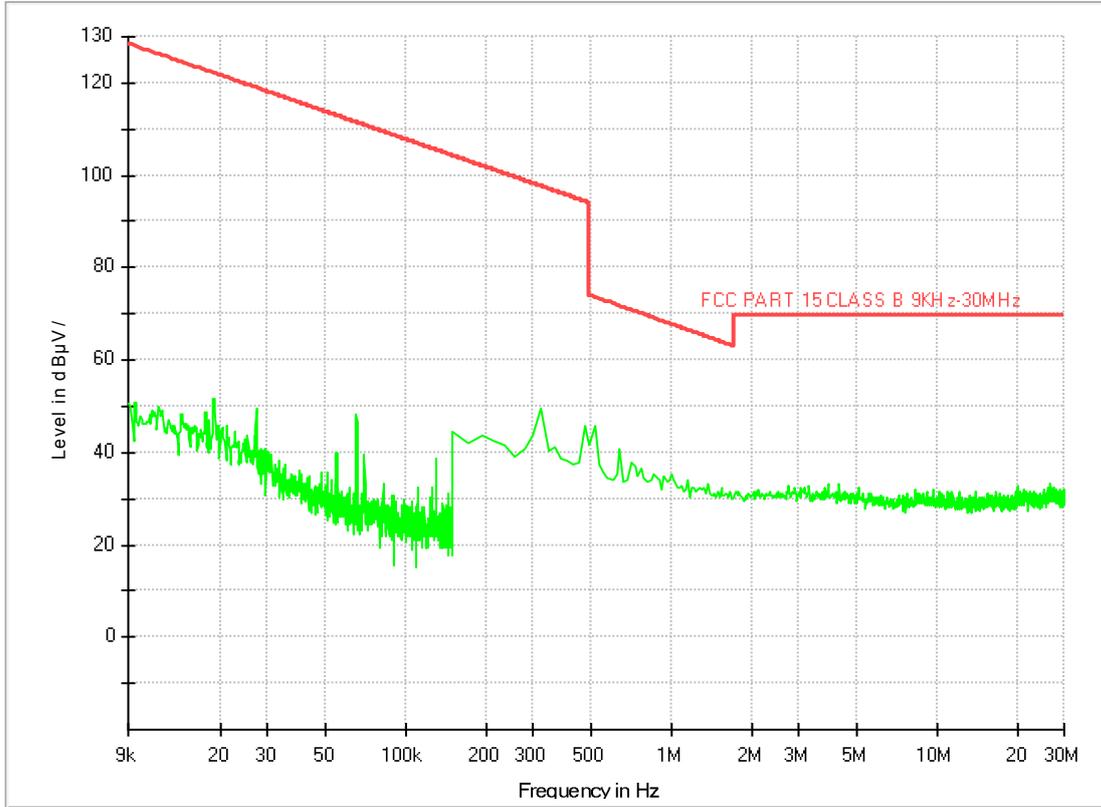


RSE-TXDIRECTOR LTE 73841\_H

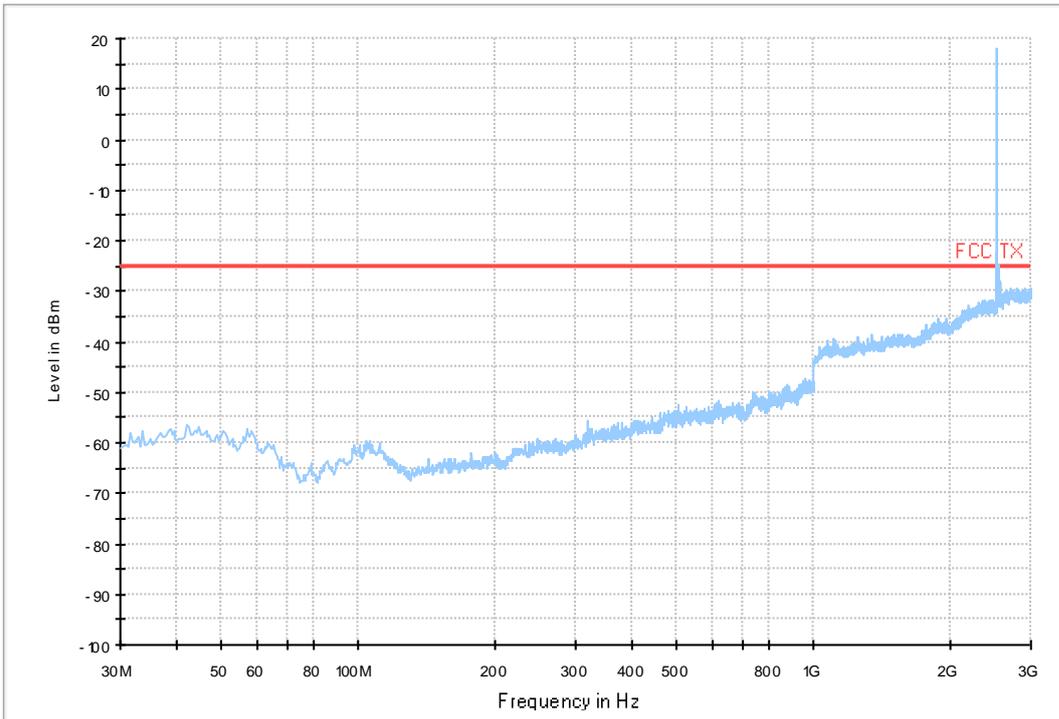




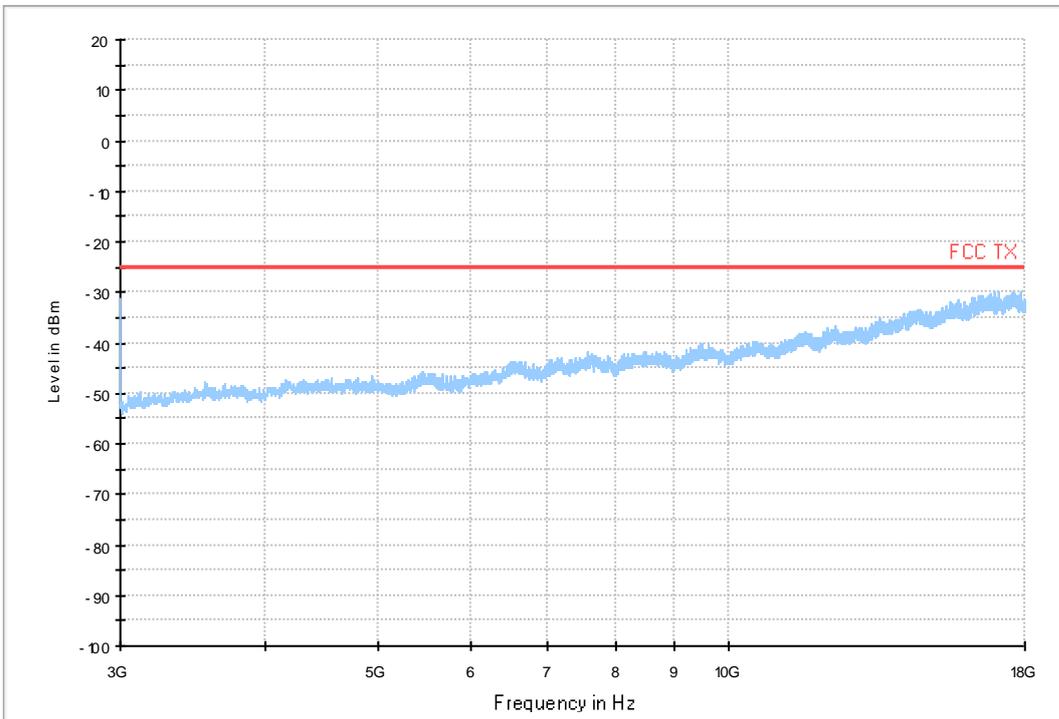
### 7.1.1.2 Test Bandwidth = 20

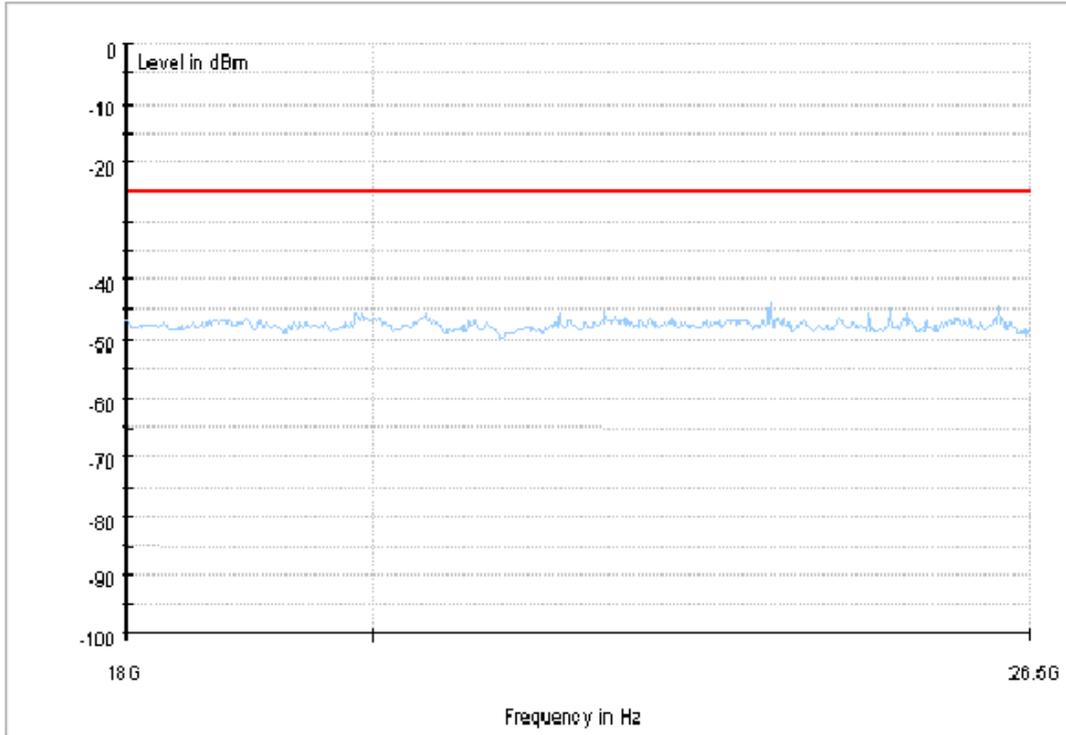


RSE-TXDIRECTOR LTE 73841\_L



RSE-TXDIRECTOR LTE 73841\_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
BAND7	LTE/TM1	5	LCH	TN	VL	4.33	0.00173	PASS
					VN	7.08	0.00283	PASS
					VH	4.18	0.00167	PASS
			MCH	TN	VL	0.84	0.00033	PASS
					VN	1.62	0.00064	PASS
					VH	3.55	0.0014	PASS
			HCH	TN	VL	2.29	0.00089	PASS
					VN	1.57	0.00061	PASS
					VH	1.56	0.00061	PASS
		10	LCH	TN	VL	1.22	0.00049	PASS
					VN	4.48	0.00179	PASS
					VH	1.16	0.00046	PASS
			MCH	TN	VL	1.86	0.00073	PASS
					VN	1.33	0.00052	PASS
					VH	1.33	0.00052	PASS
			HCH	TN	VL	2.37	0.00092	PASS
					VN	4.23	0.00165	PASS
					VH	3.95	0.00154	PASS
		15	LCH	TN	VL	5.38	0.00215	PASS
					VN	0.90	0.00036	PASS
					VH	2.65	0.00106	PASS
			MCH	TN	VL	3.05	0.0012	PASS
					VN	1.47	0.00058	PASS
					VH	2.50	0.00099	PASS
			HCH	TN	VL	1.07	0.00042	PASS
					VN	2.17	0.00085	PASS
					VH	0.69	0.00027	PASS
		20	LCH	TN	VL	2.45	0.00098	PASS
					VN	1.07	0.00043	PASS
					VH	2.35	0.00094	PASS
			MCH	TN	VL	1.90	0.00075	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	2.86	0.00113	PASS		
					VH	0.83	0.00033	PASS		
					HCH	TN	VL	-0.14	-0.00005	PASS
							VN	-1.82	-0.00071	PASS
					VH	-0.87	-0.00034	PASS		
			LCH	TN	VL	2.56	0.00102	PASS		
					VN	4.39	0.00175	PASS		
					VH	6.71	0.00268	PASS		
			MCH	TN	VL	4.16	0.00164	PASS		
					VN	2.86	0.00113	PASS		
	VH	5.84			0.0023	PASS				
	HCH	TN	VL	0.49	0.00019	PASS				
			VN	-0.20	-0.00008	PASS				
			VH	5.55	0.00216	PASS				
	5	LCH	TN	VL	3.58	0.00143	PASS			
				VN	3.08	0.00123	PASS			
				VH	1.66	0.00066	PASS			
		MCH	TN	VL	2.66	0.00105	PASS			
				VN	2.12	0.00084	PASS			
				VH	1.89	0.00075	PASS			
		HCH	TN	VL	0.62	0.00024	PASS			
				VN	1.89	0.00074	PASS			
				VH	2.60	0.00101	PASS			
	10	LCH	TN	VL	0.44	0.00018	PASS			
				VN	4.59	0.00183	PASS			
				VH	0.63	0.00025	PASS			
		MCH	TN	VL	1.32	0.00052	PASS			
				VN	1.04	0.00041	PASS			
				VH	2.49	0.00098	PASS			
		HCH	TN	VL	4.91	0.00192	PASS			
				VN	4.36	0.0017	PASS			
				VH	3.85	0.0015	PASS			
	15	LCH	TN	VL	3.02	0.0012	PASS			
				VN	3.46	0.00138	PASS			
				VH	4.73	0.00188	PASS			
		MCH	TN	VL	2.20	0.00087	PASS			
				VN	2.06	0.00081	PASS			
				VH	3.48	0.00137	PASS			
		HCH	TN	VL	-2.83	-0.00111	PASS			
				VN						
				VH						
	20	LCH	TN	VL						
VN										
VH										
MCH		TN	VL							
			VN							
			VH							
HCH		TN	VL							
			VN							
			VH							



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-4.38	-0.00171	PASS
					VH	-3.46	-0.00135	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
BAND7	LTE/TM1	5	LCH	VN	-30	0.83	0.00033	PASS
					-20	0.72	0.00029	PASS
					-10	0.06	0.00002	PASS
					0	0.01	0	PASS
					10	0.83	0.00033	PASS
					20	1.52	0.00061	PASS
					30	0.73	0.00029	PASS
					40	-0.03	-0.00001	PASS
			50	2.13	0.00085	PASS		
			MCH	VN	-30	1.37	0.00054	PASS
					-20	2.30	0.00091	PASS
					-10	5.71	0.00225	PASS
					0	1.29	0.00051	PASS
					10	2.37	0.00093	PASS
					20	2.09	0.00082	PASS
					30	1.29	0.00051	PASS
					40	1.57	0.00062	PASS
			50	3.89	0.00153	PASS		
			HCH	VN	-30	4.65	0.00181	PASS
					-20	6.18	0.00241	PASS
					-10	5.11	0.00199	PASS
					0	5.95	0.00232	PASS
					10	4.76	0.00185	PASS
					20	2.19	0.00085	PASS
		30			6.24	0.00243	PASS	
		40			1.17	0.00046	PASS	
		50	0.00	0	PASS			
		10	LCH	VN	-30	5.24	0.00209	PASS
					-20	3.85	0.00154	PASS
					-10	2.88	0.00115	PASS
					0	4.49	0.00179	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	5.09	0.00203	PASS			
					20	3.85	0.00154	PASS			
					30	4.76	0.0019	PASS			
					40	1.75	0.0007	PASS			
					50	3.10	0.00124	PASS			
			MCH	VN	-30	0.17	0.00007	PASS			
					-20	0.59	0.00023	PASS			
					-10	0.26	0.0001	PASS			
					0	0.94	0.00037	PASS			
					10	1.32	0.00052	PASS			
					20	1.47	0.00058	PASS			
					30	1.66	0.00065	PASS			
					40	1.87	0.00074	PASS			
			HCH	VN	50	1.79	0.00071	PASS			
					-30	3.23	0.00126	PASS			
					-20	1.73	0.00067	PASS			
					-10	3.38	0.00132	PASS			
					0	3.30	0.00129	PASS			
					10	3.03	0.00118	PASS			
					20	3.10	0.00121	PASS			
					30	2.80	0.00109	PASS			
			15	LCH	VN	40	2.73	0.00106	PASS		
						50	4.66	0.00182	PASS		
						-30	4.02	0.0016	PASS		
						-20	4.03	0.00161	PASS		
						-10	4.95	0.00197	PASS		
						0	4.62	0.00184	PASS		
				MCH	VN	10	4.01	0.0016	PASS		
						20	4.55	0.00181	PASS		
						30	4.72	0.00188	PASS		
						40	3.86	0.00154	PASS		
						50	3.73	0.00149	PASS		
						-30	2.59	0.00102	PASS		
						-20	1.54	0.00061	PASS		
								-10	2.78	0.0011	PASS
								0	1.22	0.00048	PASS
10	2.17	0.00086						PASS			
20	1.67	0.00066						PASS			
30	1.96	0.00077						PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	1.30	0.00051	PASS	
					50	1.40	0.00055	PASS	
			HCH	VN	-30	0.96	0.00037	PASS	
					-20	1.70	0.00066	PASS	
					-10	0.82	0.00032	PASS	
					0	0.92	0.00036	PASS	
					10	2.07	0.00081	PASS	
					20	1.77	0.00069	PASS	
					30	1.39	0.00054	PASS	
					40	1.30	0.00051	PASS	
					50	-0.11	-0.00004	PASS	
					LCH	VN	-30	2.05	0.00082
			-20	3.46			0.00138	PASS	
			-10	6.11			0.00243	PASS	
			0	5.78			0.0023	PASS	
		10	5.14	0.00205			PASS		
		20	6.01	0.00239			PASS		
		30	5.21	0.00208			PASS		
		40	5.11	0.00204			PASS		
		50	5.68	0.00226			PASS		
		MCH	VN	-30	2.78	0.0011	PASS		
				-20	1.69	0.00067	PASS		
				-10	2.45	0.00097	PASS		
				0	2.26	0.00089	PASS		
				10	1.95	0.00077	PASS		
				20	2.02	0.0008	PASS		
				30	2.68	0.00106	PASS		
				40	1.43	0.00056	PASS		
				50	2.15	0.00085	PASS		
		HCH	VN	-30	-1.56	-0.00061	PASS		
				-20	-3.19	-0.00125	PASS		
				-10	-1.90	-0.00074	PASS		
				0	-2.13	-0.00083	PASS		
				10	-3.18	-0.00124	PASS		
				20	-2.29	-0.00089	PASS		
				30	-1.50	-0.00059	PASS		
				40	-0.29	-0.00011	PASS		
				50	-0.90	-0.00035	PASS		
		LTE/TM2	5	LCH	VN	-30	2.65	0.00106	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10			-20	0.53	0.00021	PASS
					-10	0.03	0.00001	PASS
					0	3.06	0.00122	PASS
					10	0.14	0.00006	PASS
					20	3.28	0.00131	PASS
					30	5.31	0.00212	PASS
					40	2.06	0.00082	PASS
					50	3.78	0.00151	PASS
			MCH	VN	-30	2.66	0.00105	PASS
					-20	0.50	0.0002	PASS
					-10	5.06	0.002	PASS
					0	4.85	0.00191	PASS
					10	1.23	0.00049	PASS
					20	1.07	0.00042	PASS
					30	3.38	0.00133	PASS
					40	-0.46	-0.00018	PASS
			HCH	VN	-30	2.33	0.00091	PASS
					-20	4.29	0.00167	PASS
					-10	6.78	0.00264	PASS
					0	3.15	0.00123	PASS
					10	5.66	0.0022	PASS
					20	3.56	0.00139	PASS
					30	3.93	0.00153	PASS
					40	4.41	0.00172	PASS
			LCH	VN	-30	2.33	0.00093	PASS
					-20	5.97	0.00238	PASS
					-10	2.03	0.00081	PASS
					0	0.27	0.00011	PASS
		10			4.05	0.00162	PASS	
		20			2.99	0.00119	PASS	
		30			2.59	0.00103	PASS	
		40			2.99	0.00119	PASS	
		MCH	VN	-30	6.08	0.0024	PASS	
				-20	4.32	0.0017	PASS	
				-10	6.44	0.00254	PASS	
				0	6.05	0.00239	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict				
					10	6.85	0.0027	PASS				
					20	4.69	0.00185	PASS				
					30	5.69	0.00224	PASS				
					40	4.56	0.0018	PASS				
					50	6.84	0.0027	PASS				
			HCH	VN				-30	0.56	0.00022	PASS	
								-20	0.66	0.00026	PASS	
								-10	1.39	0.00054	PASS	
								0	1.34	0.00052	PASS	
								10	1.33	0.00052	PASS	
								20	3.28	0.00128	PASS	
								30	1.82	0.00071	PASS	
								40	1.93	0.00075	PASS	
								50	2.35	0.00092	PASS	
								LCH	VN			
			-20	3.99		0.00159	PASS					
			-10	2.56		0.00102	PASS					
			0	3.95		0.00158	PASS					
			10	1.10		0.00044	PASS					
			20	2.49		0.00099	PASS					
		30	1.85	0.00074		PASS						
		40	2.80	0.00112		PASS						
		50	3.88	0.00155		PASS						
		MCH	VN					-30	3.59		0.00142	PASS
								-20	4.33		0.00171	PASS
					-10			3.83	0.00151		PASS	
					0			4.12	0.00163		PASS	
					10			3.32	0.00131		PASS	
					20			2.56	0.00101		PASS	
					30			4.96	0.00196		PASS	
					40			3.86	0.00152		PASS	
		50	4.15		0.00164	PASS						
		HCH	VN					-30	-1.00		-0.00039	PASS
								-20	-0.41		-0.00016	PASS
								-10	-2.22	-0.00087	PASS	
								0	-0.73	-0.00028	PASS	
								10	-1.07	-0.00042	PASS	
								20	-0.30	-0.00012	PASS	
								30	0.33	0.00013	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-1.56	-0.00061	PASS
					50	-0.40	-0.00016	PASS
		20	LCH	VN	-30	2.80	0.00112	PASS
					-20	2.99	0.00119	PASS
					-10	2.06	0.00082	PASS
					0	2.45	0.00098	PASS
					10	3.00	0.0012	PASS
					20	2.15	0.00086	PASS
					30	3.73	0.00149	PASS
					40	3.95	0.00157	PASS
					50	3.36	0.00134	PASS
					MCH	VN	-30	2.96
			-20	2.25			0.00089	PASS
			-10	3.60			0.00142	PASS
			0	2.70			0.00107	PASS
			10	3.56			0.0014	PASS
			20	3.43			0.00135	PASS
			30	2.46			0.00097	PASS
			40	2.50			0.00099	PASS
			HCH	VN	50	4.03	0.00159	PASS
					-30	-2.09	-0.00082	PASS
					-20	-1.47	-0.00057	PASS
					-10	-1.95	-0.00076	PASS
					0	-1.97	-0.00077	PASS
					10	-1.57	-0.00061	PASS
					20	-2.76	-0.00108	PASS
					30	-2.32	-0.00091	PASS
			40	-1.54	-0.0006	PASS		
						50	-1.65	-0.00064

END