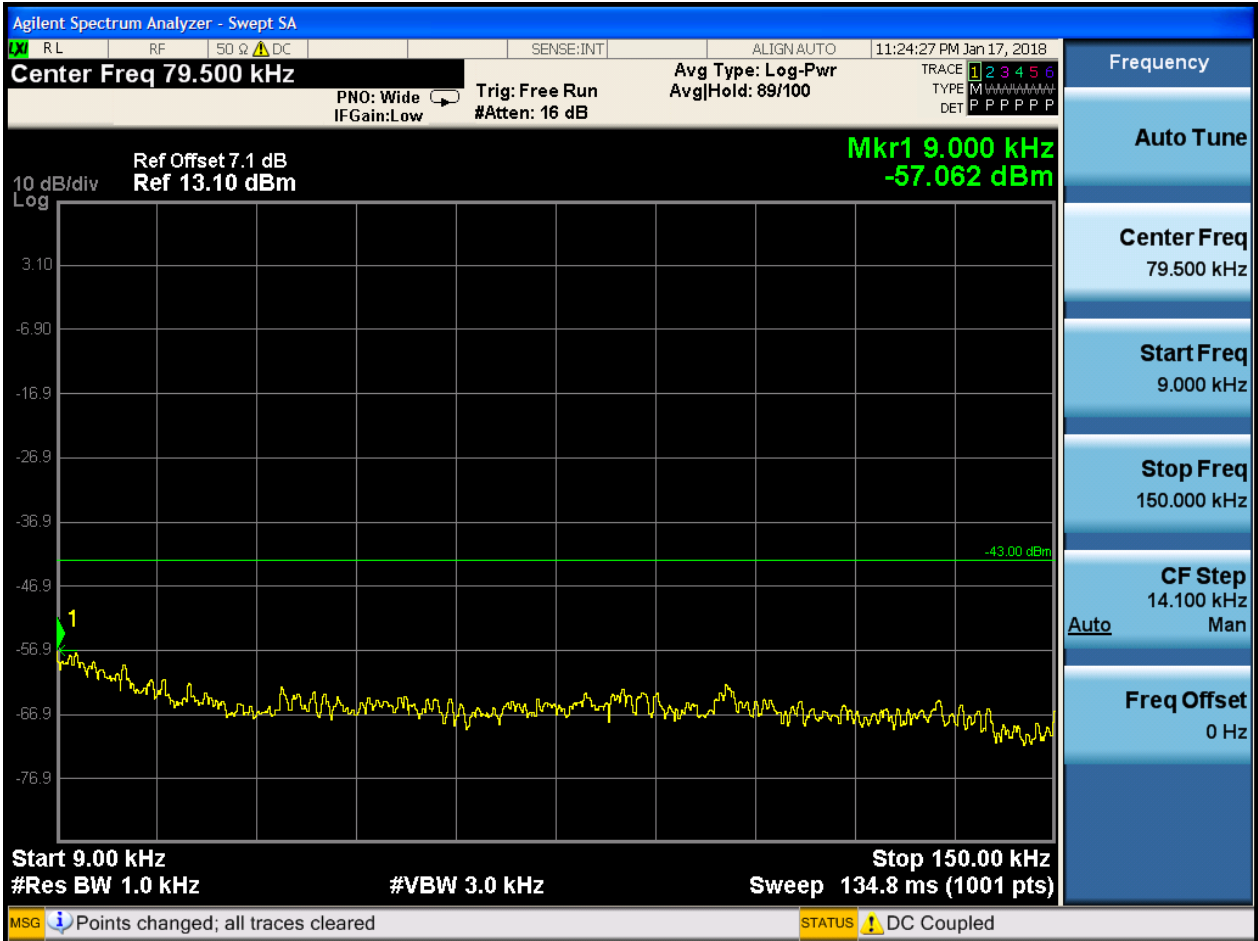
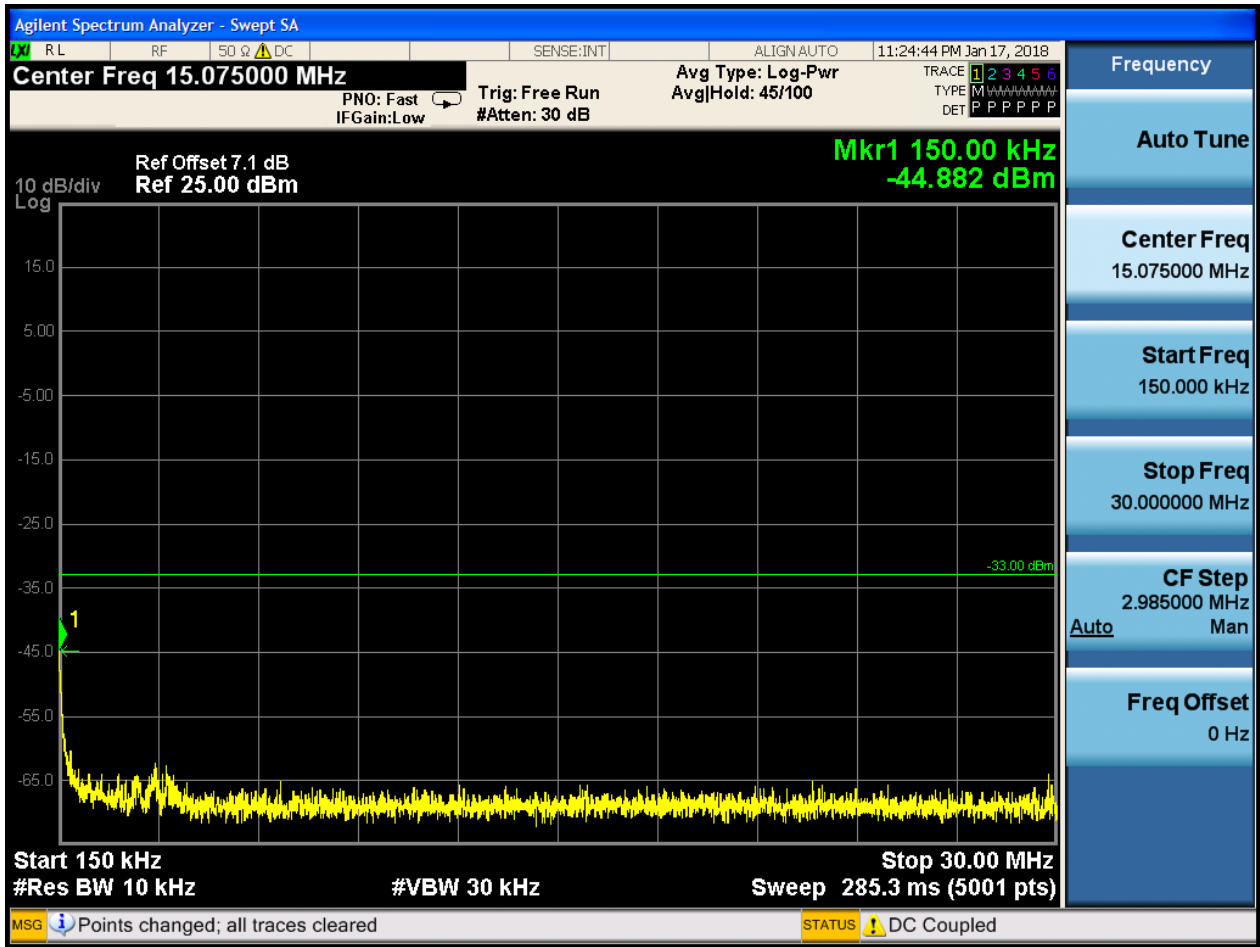


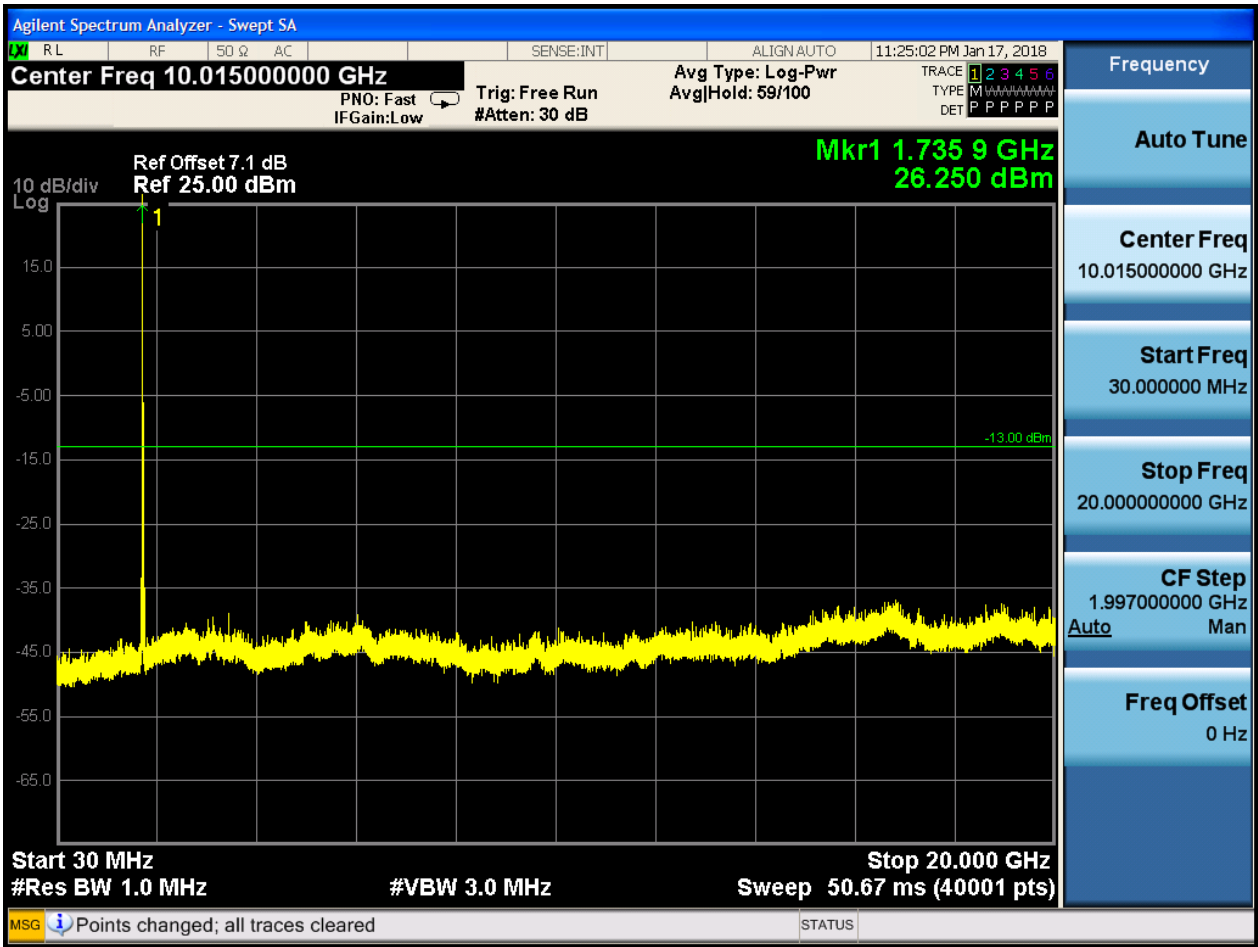


6.1.1.1.6.3 Test Channel = HCH

6.1.1.1.6.3.1 Test RB = RB1#0







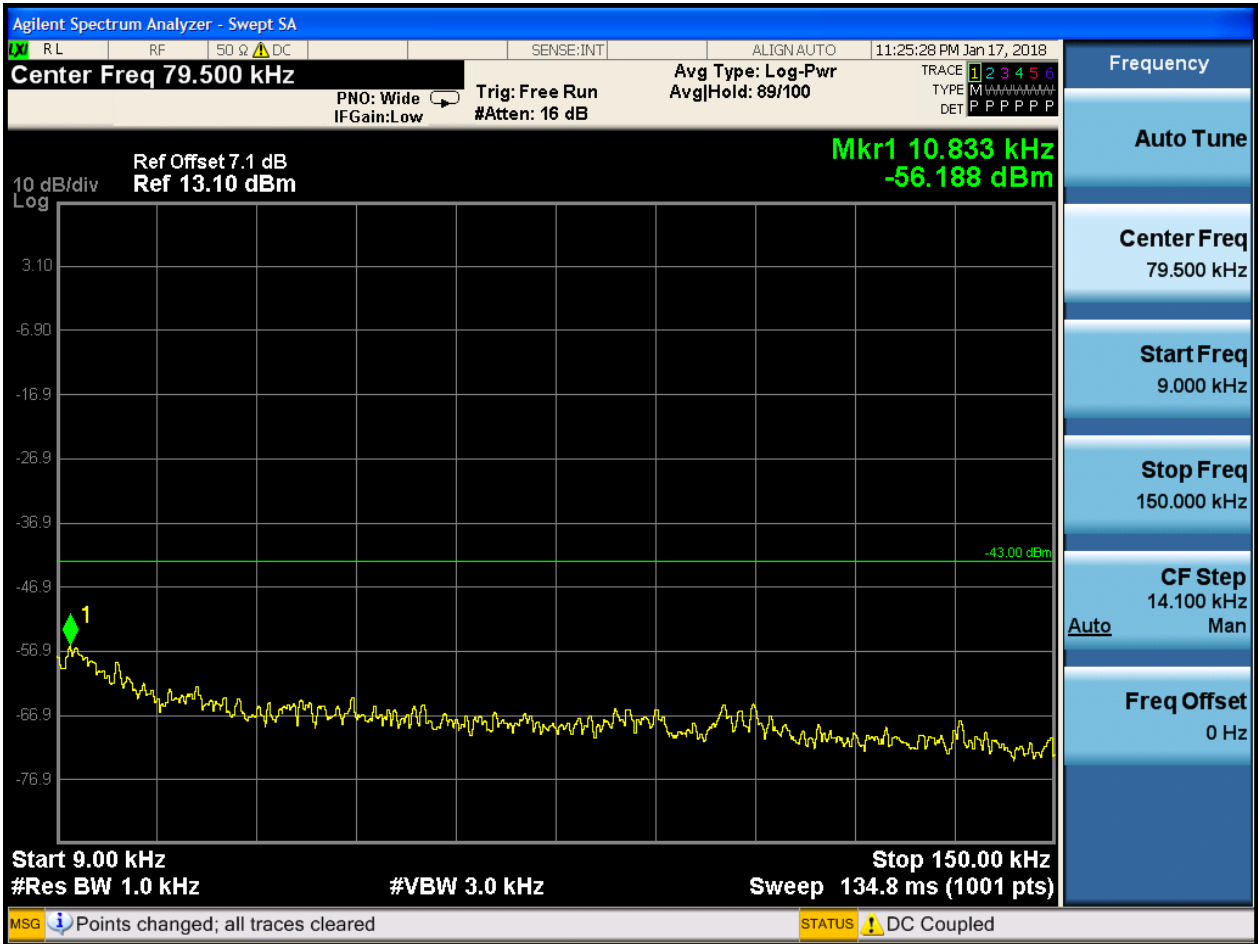


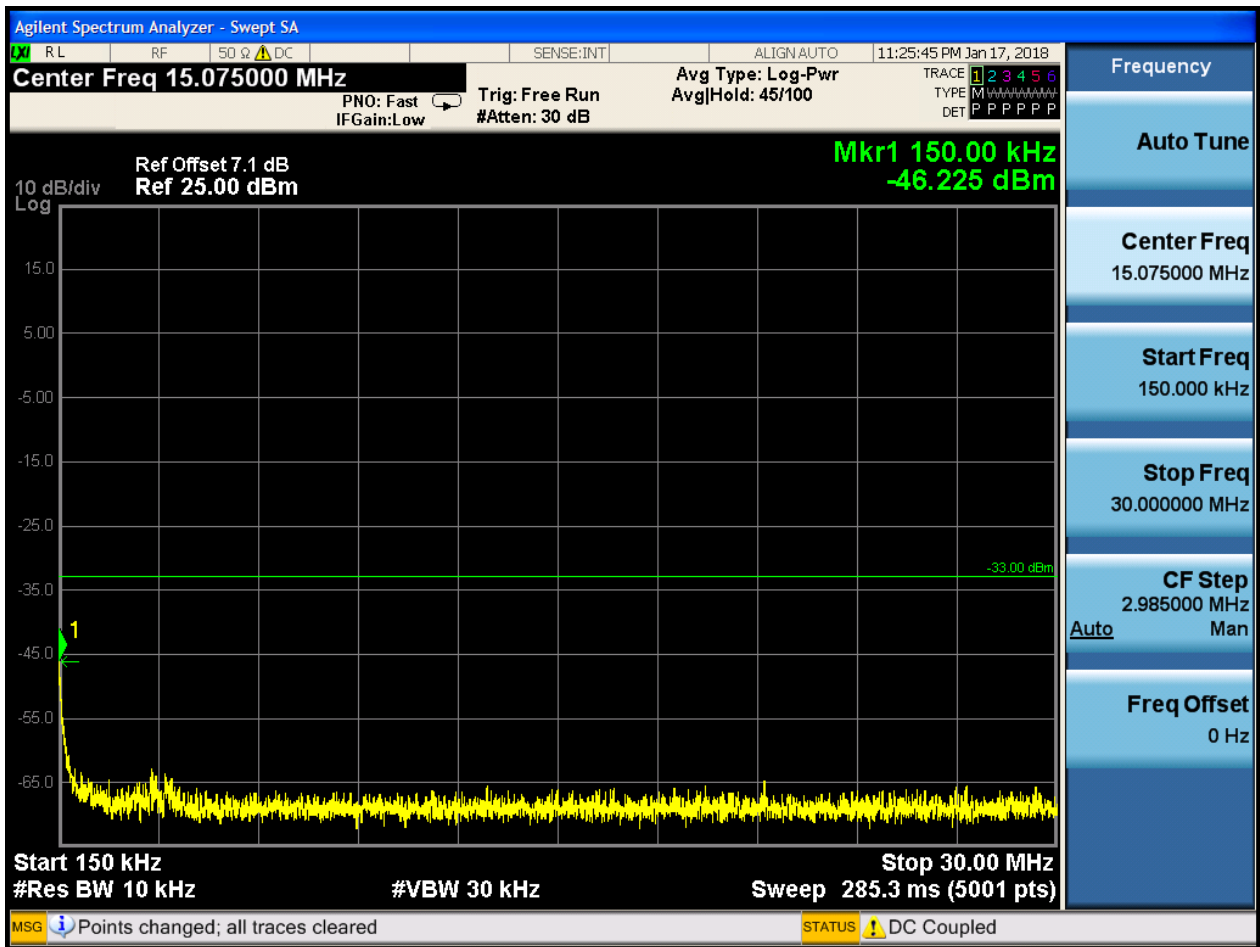
6.1.1.2 Test Mode = LTE/TM2

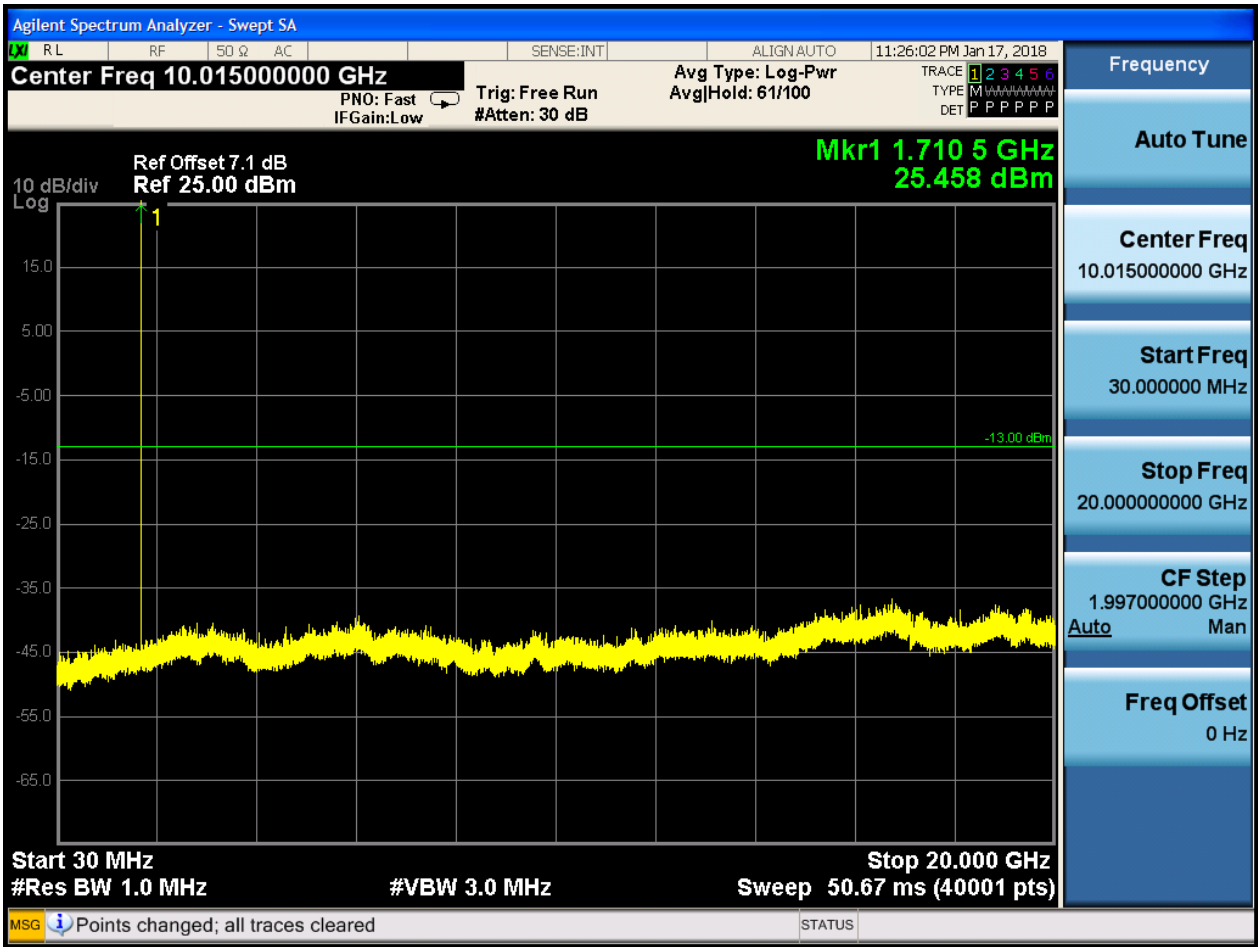
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



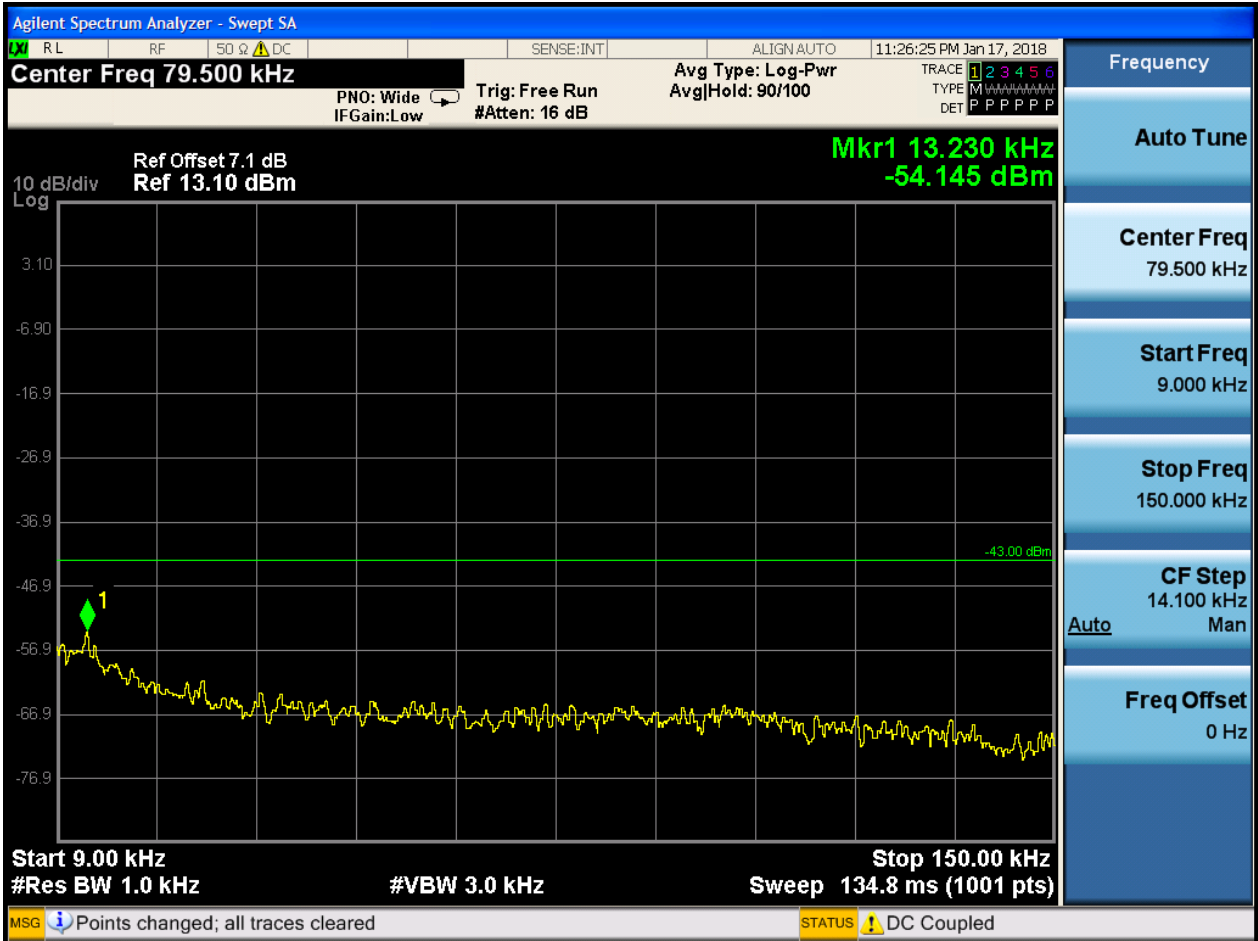


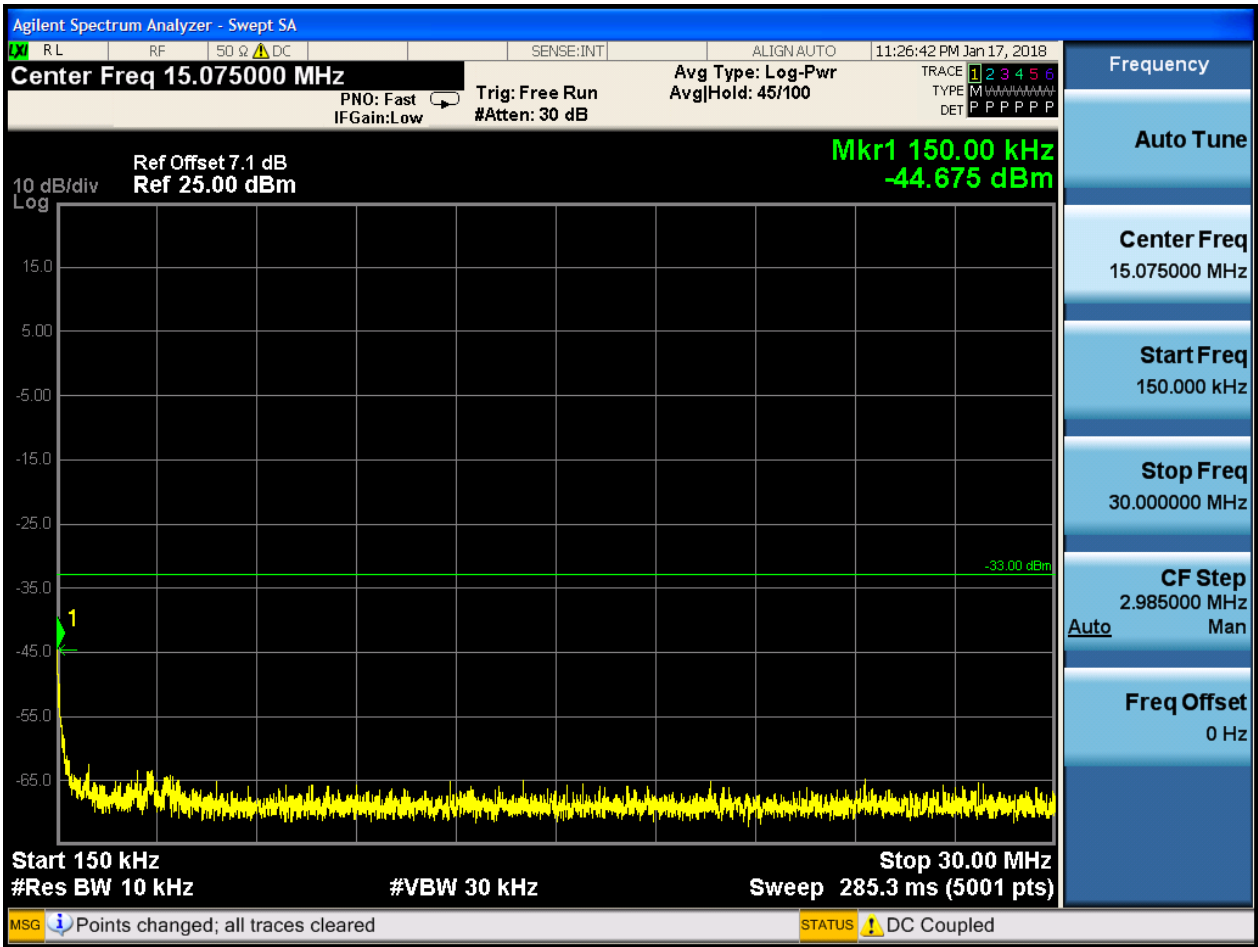


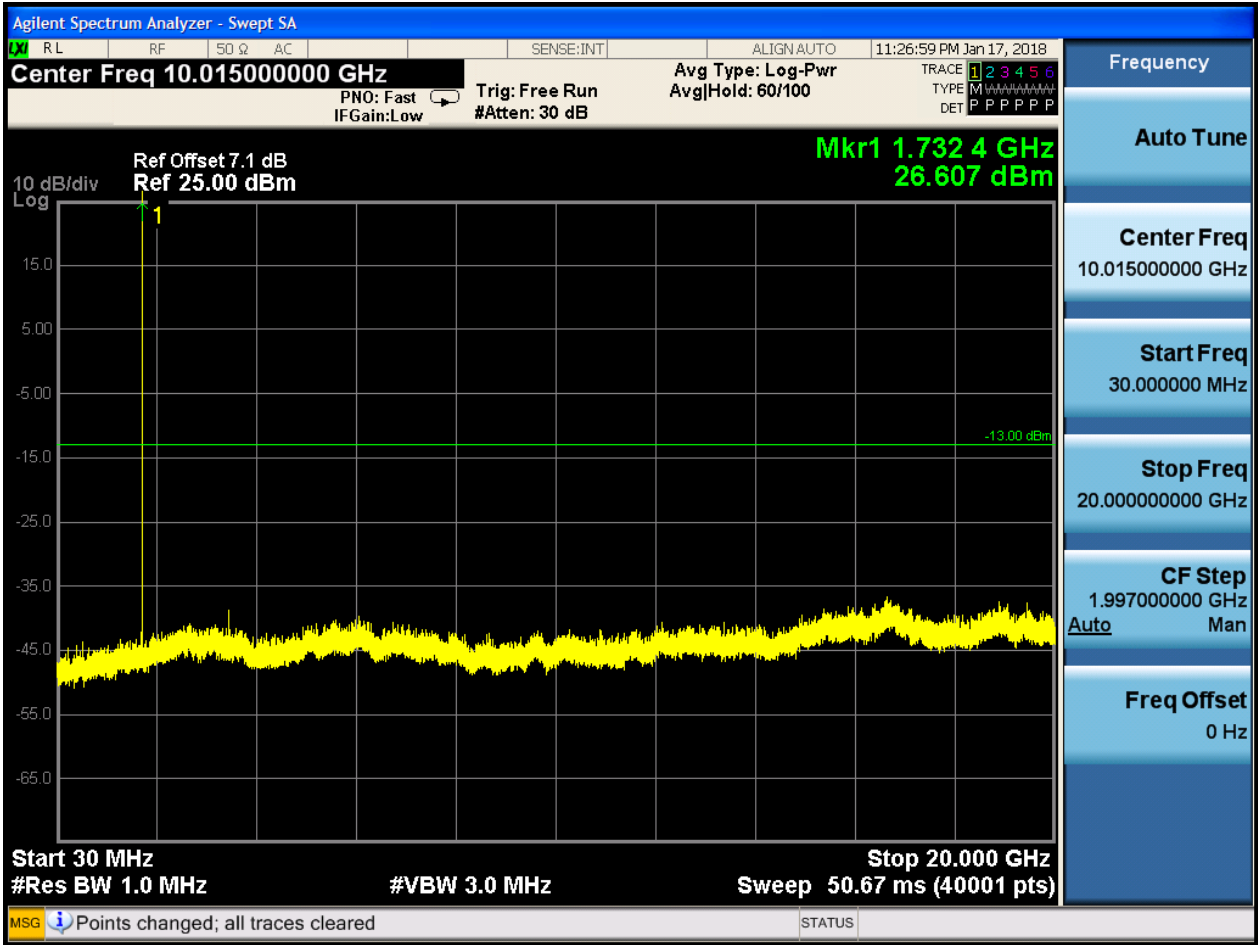


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

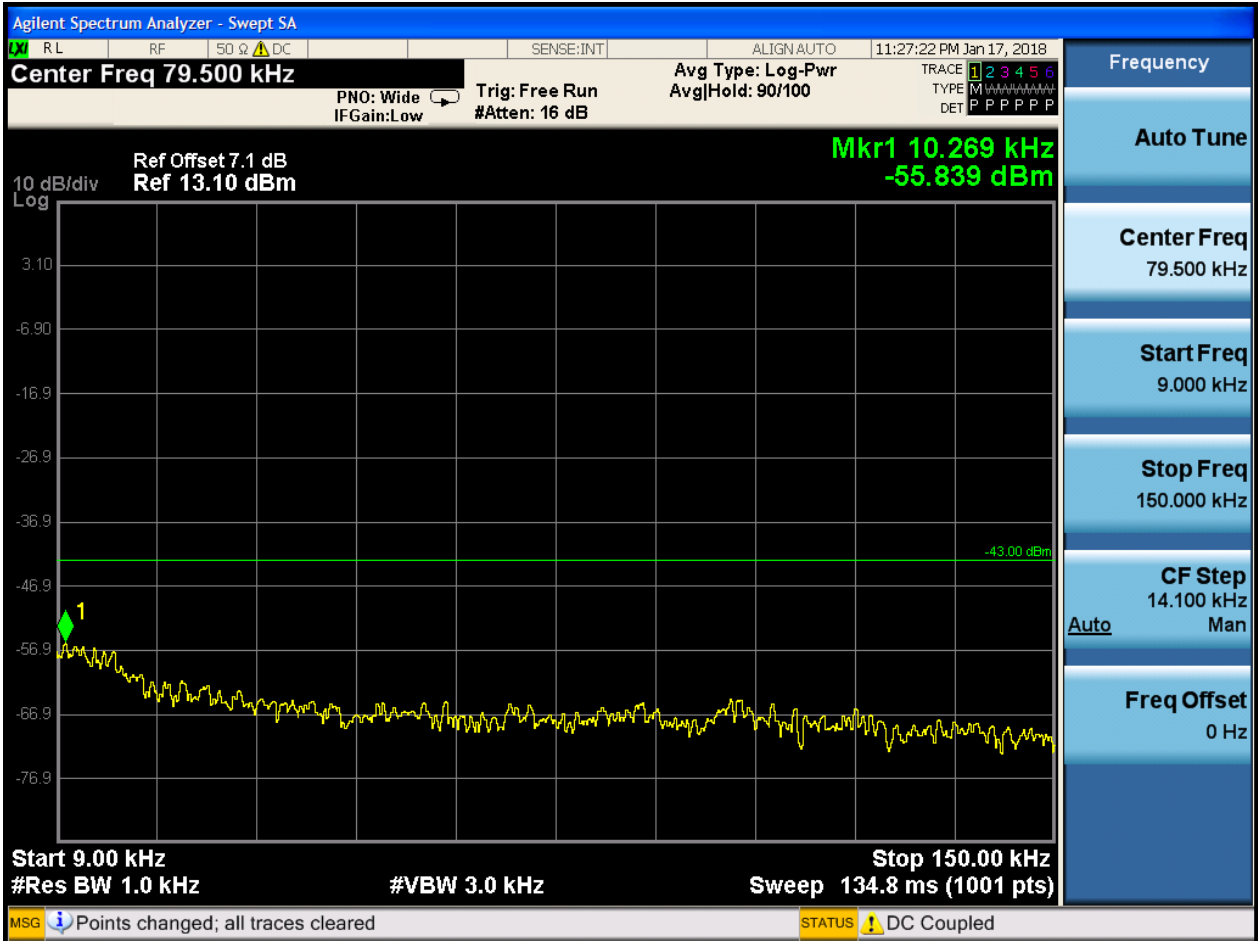


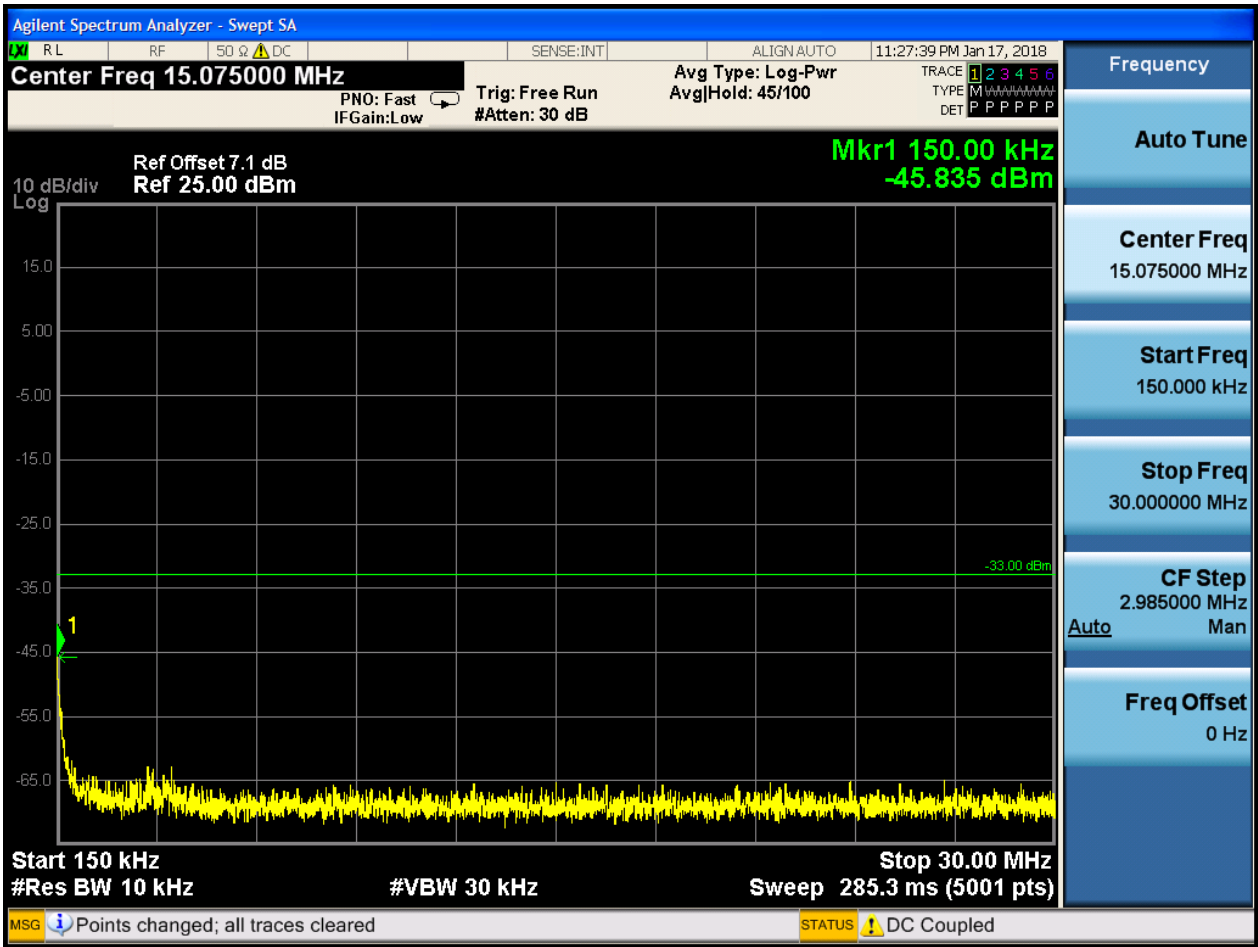


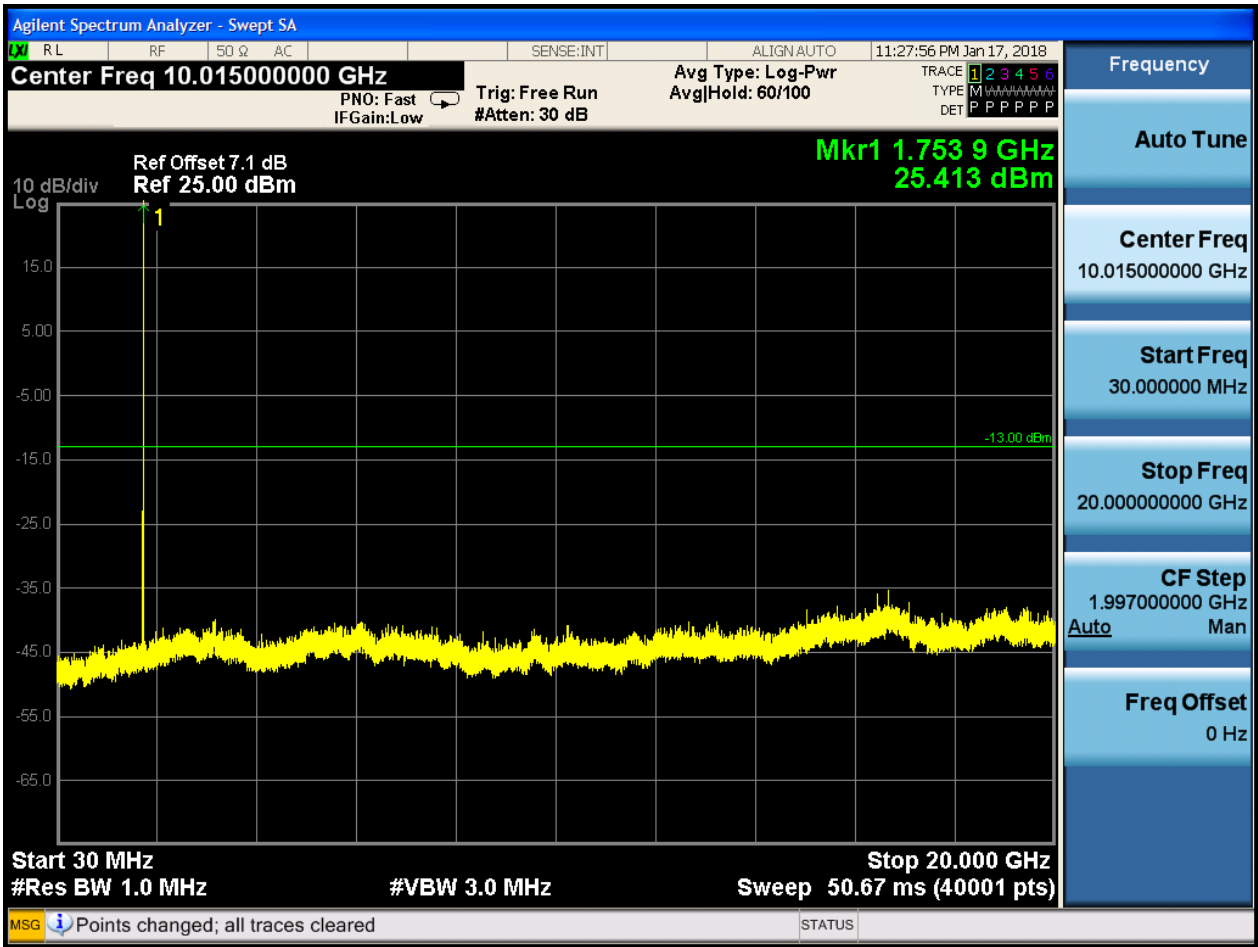


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





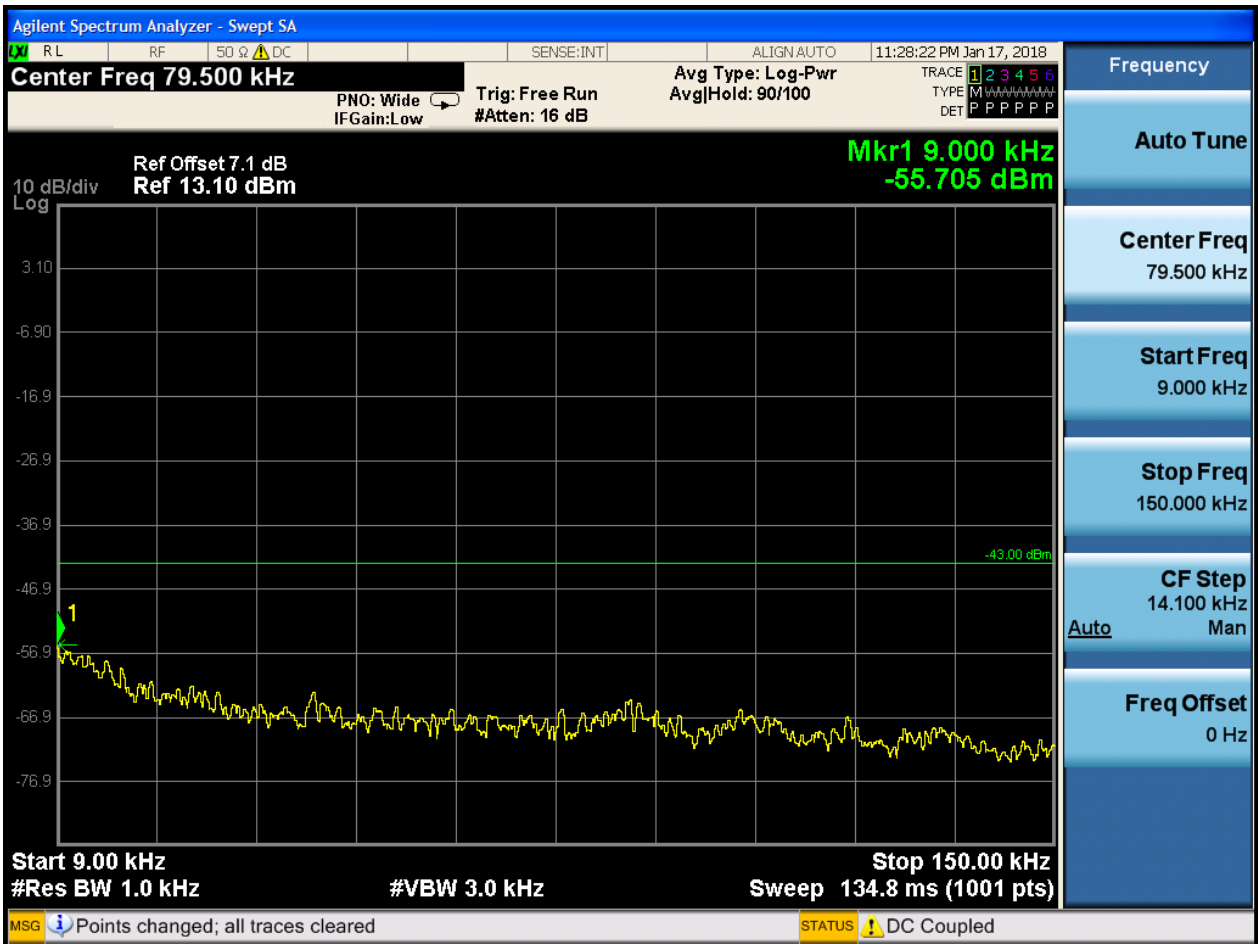


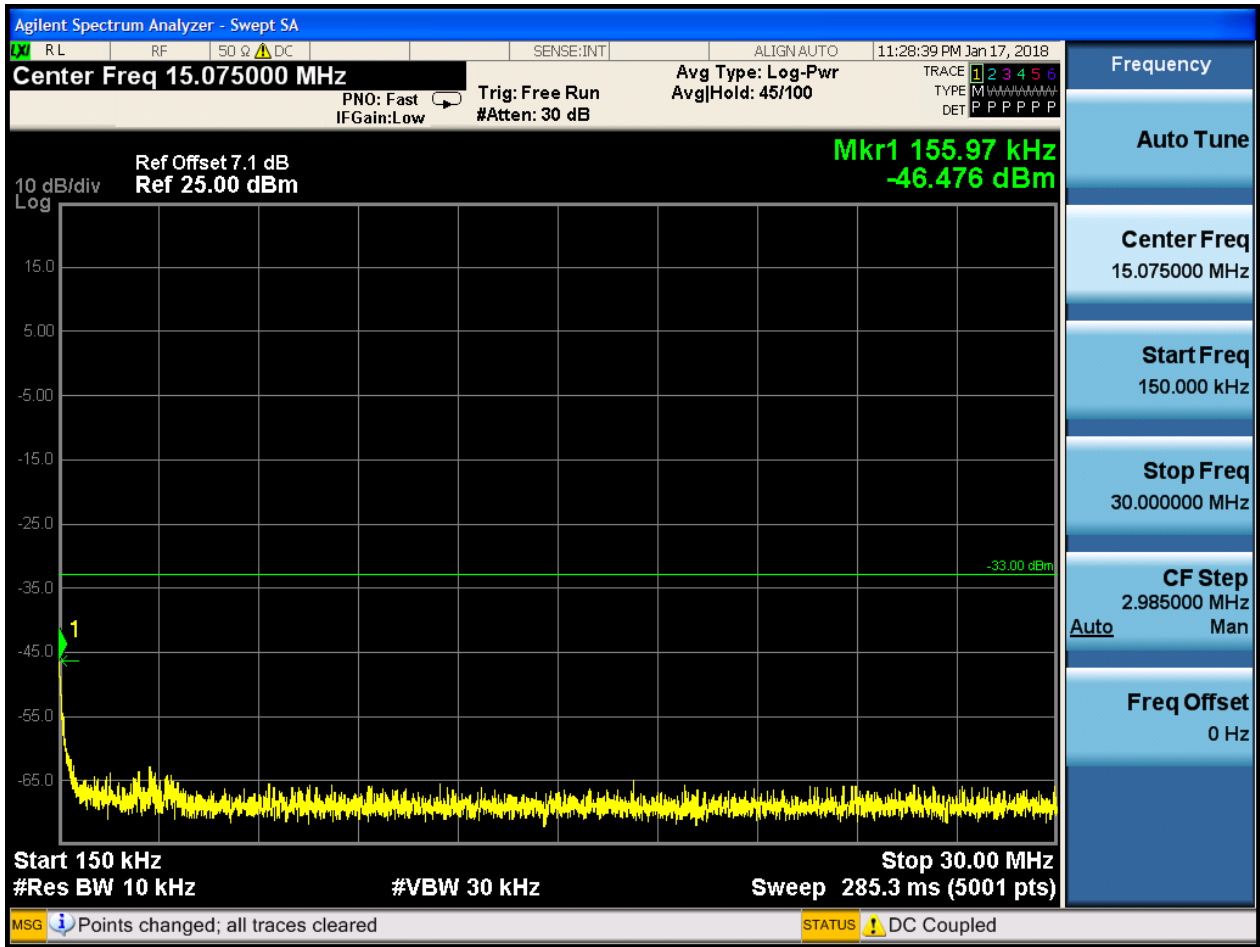


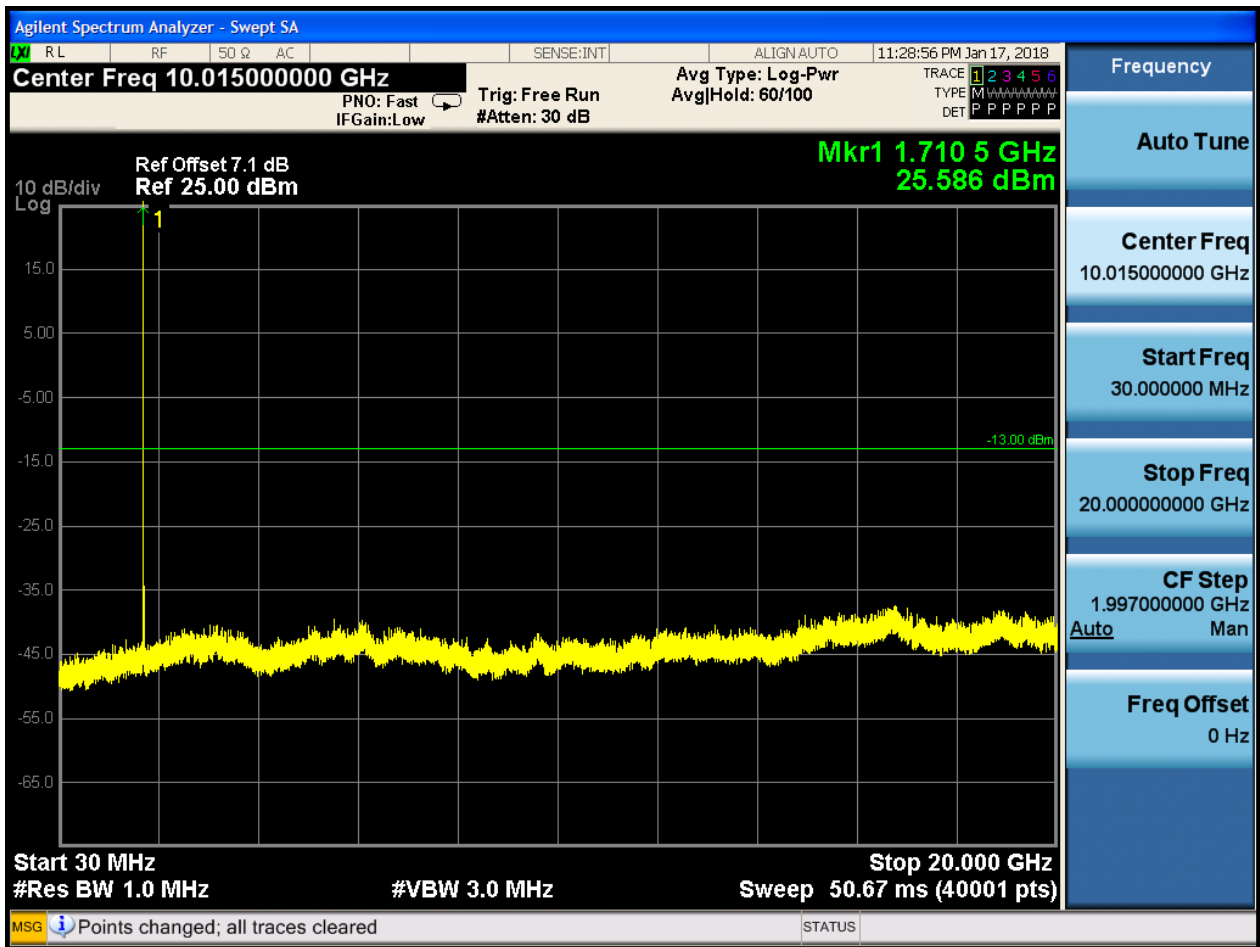
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



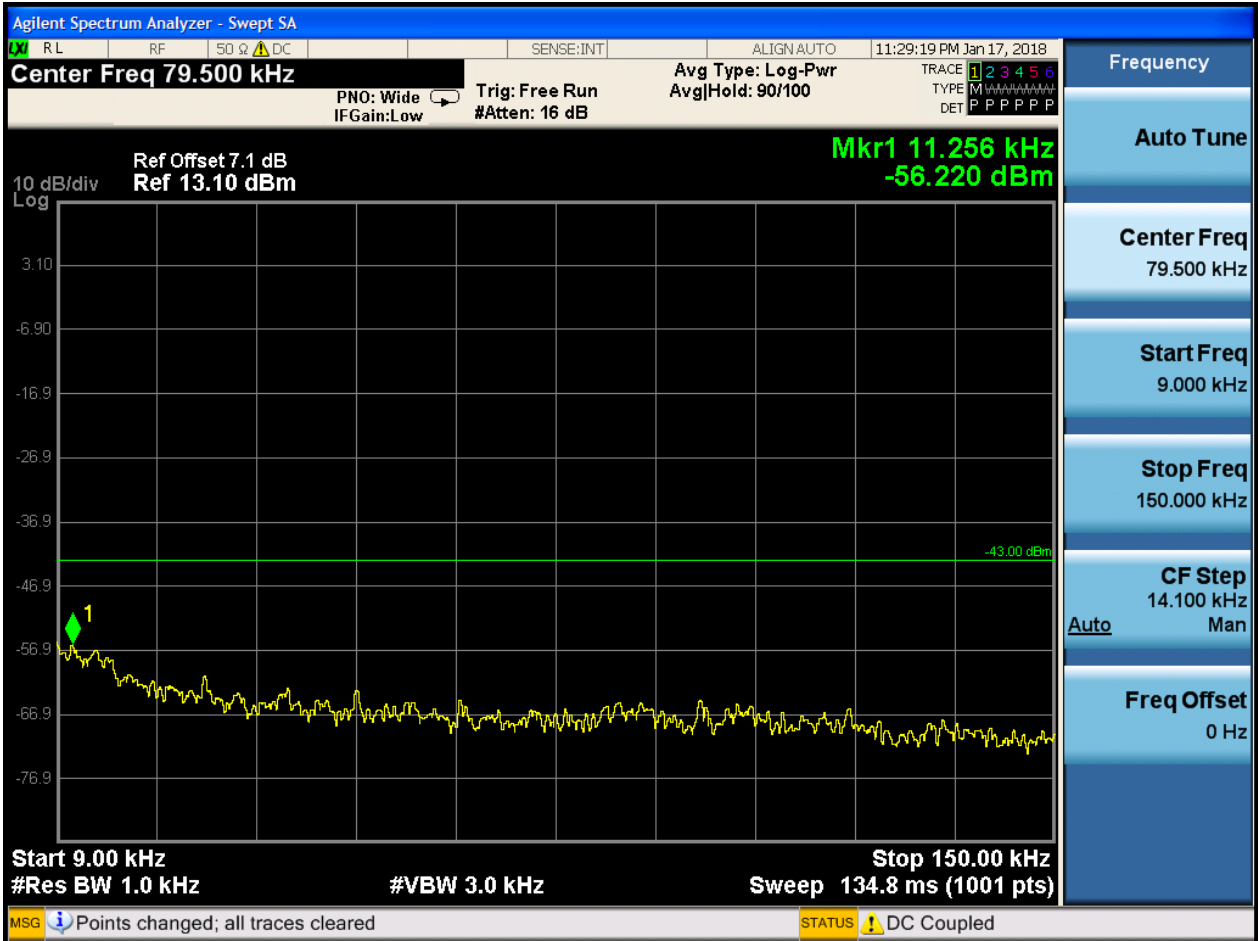


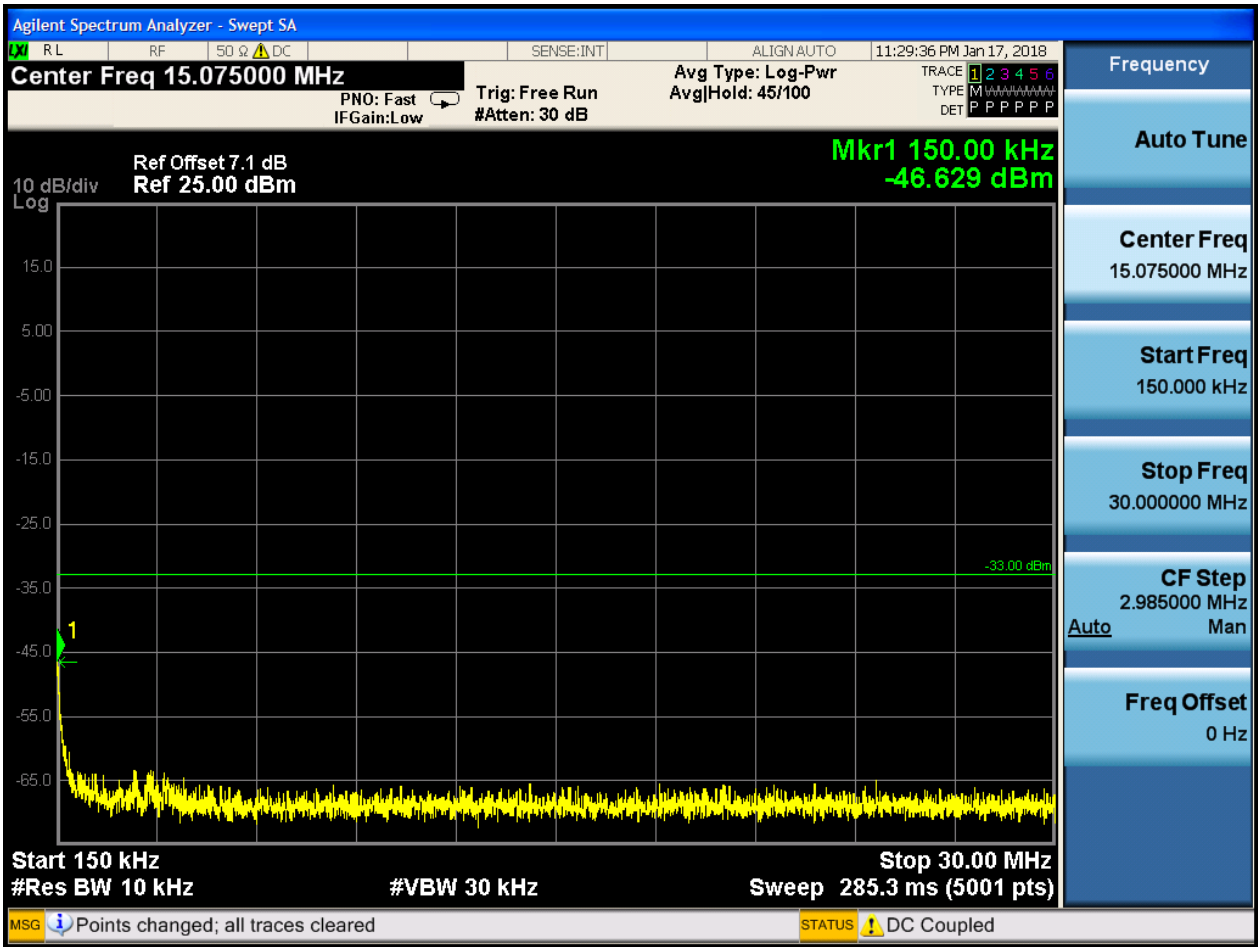


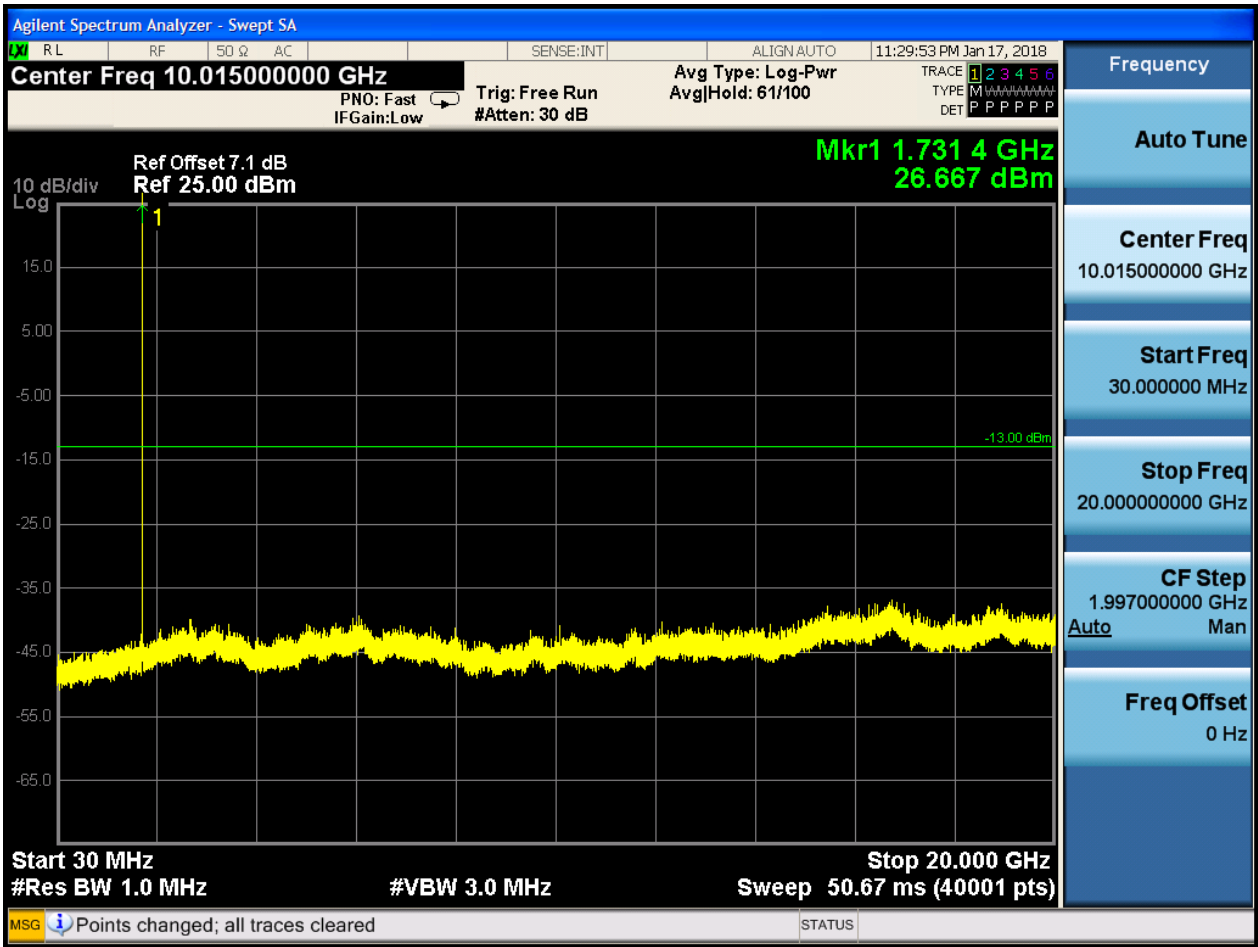


6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0



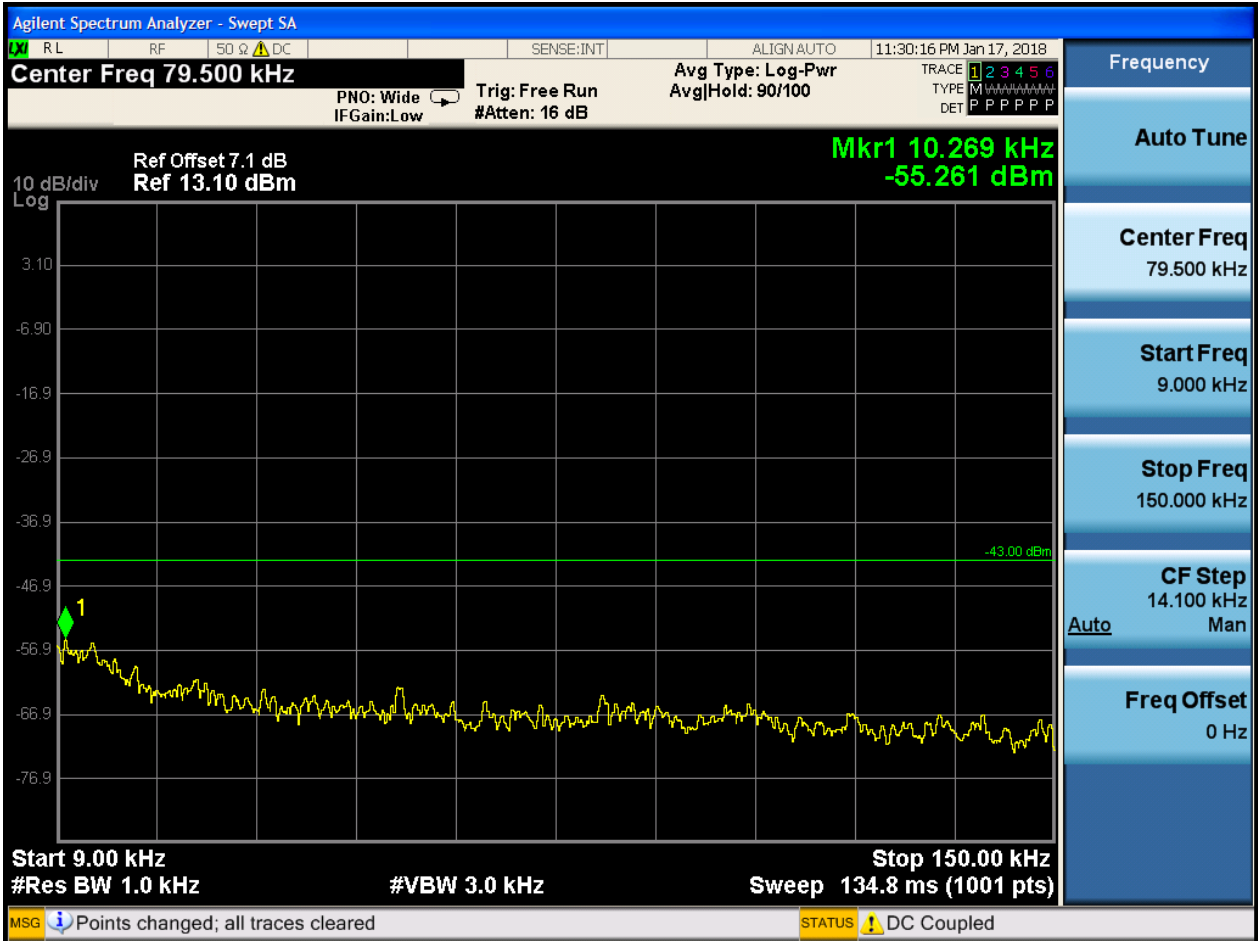


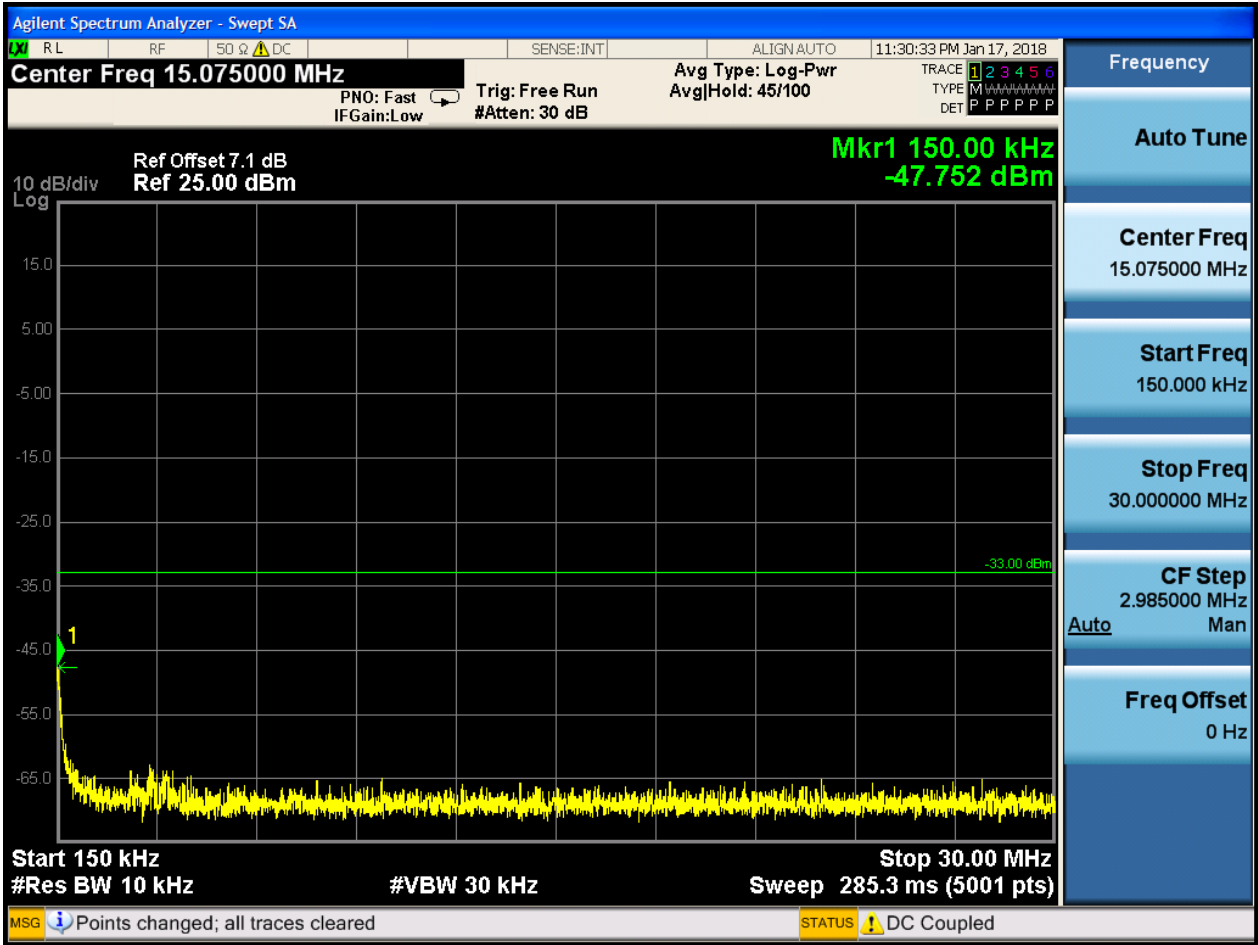


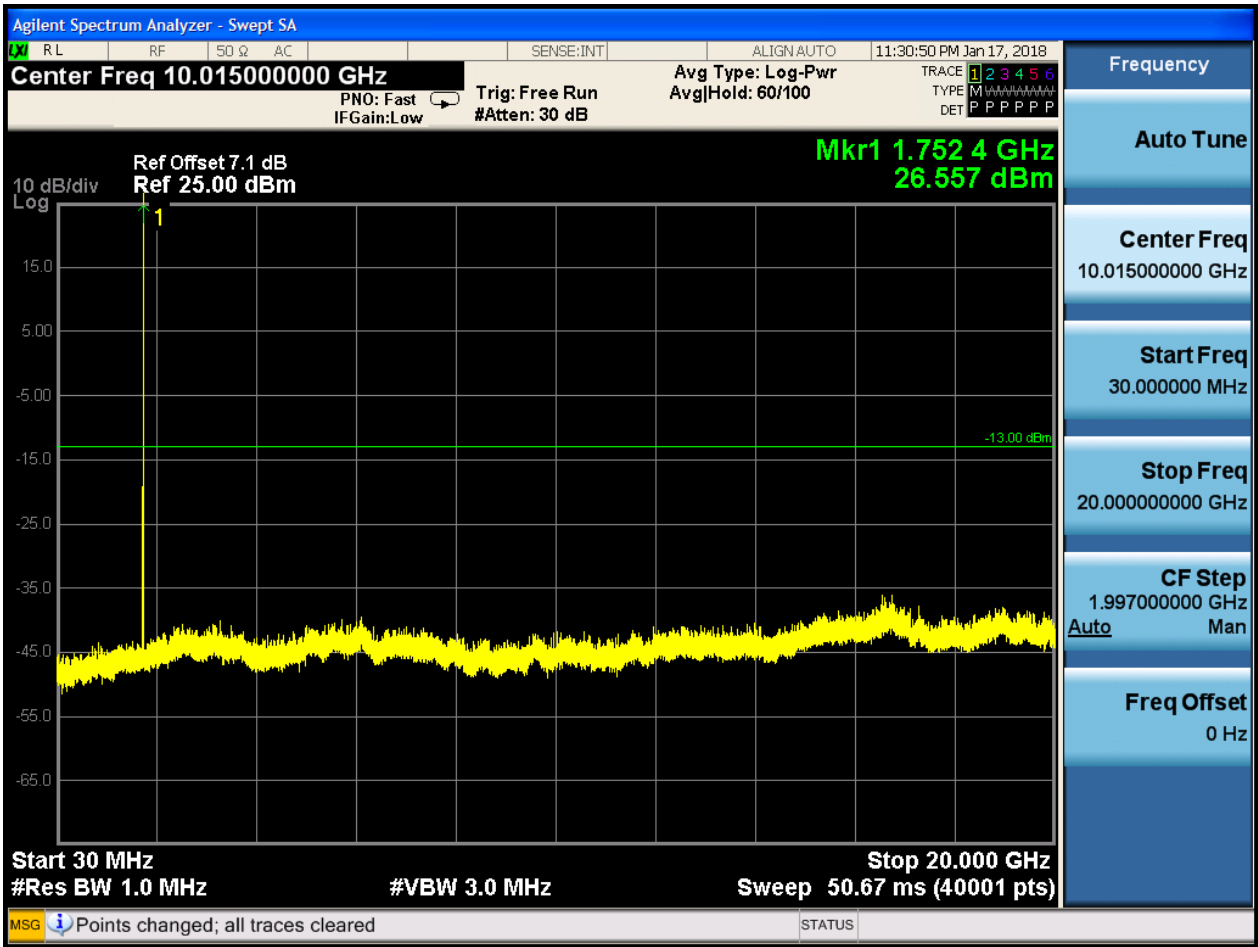


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





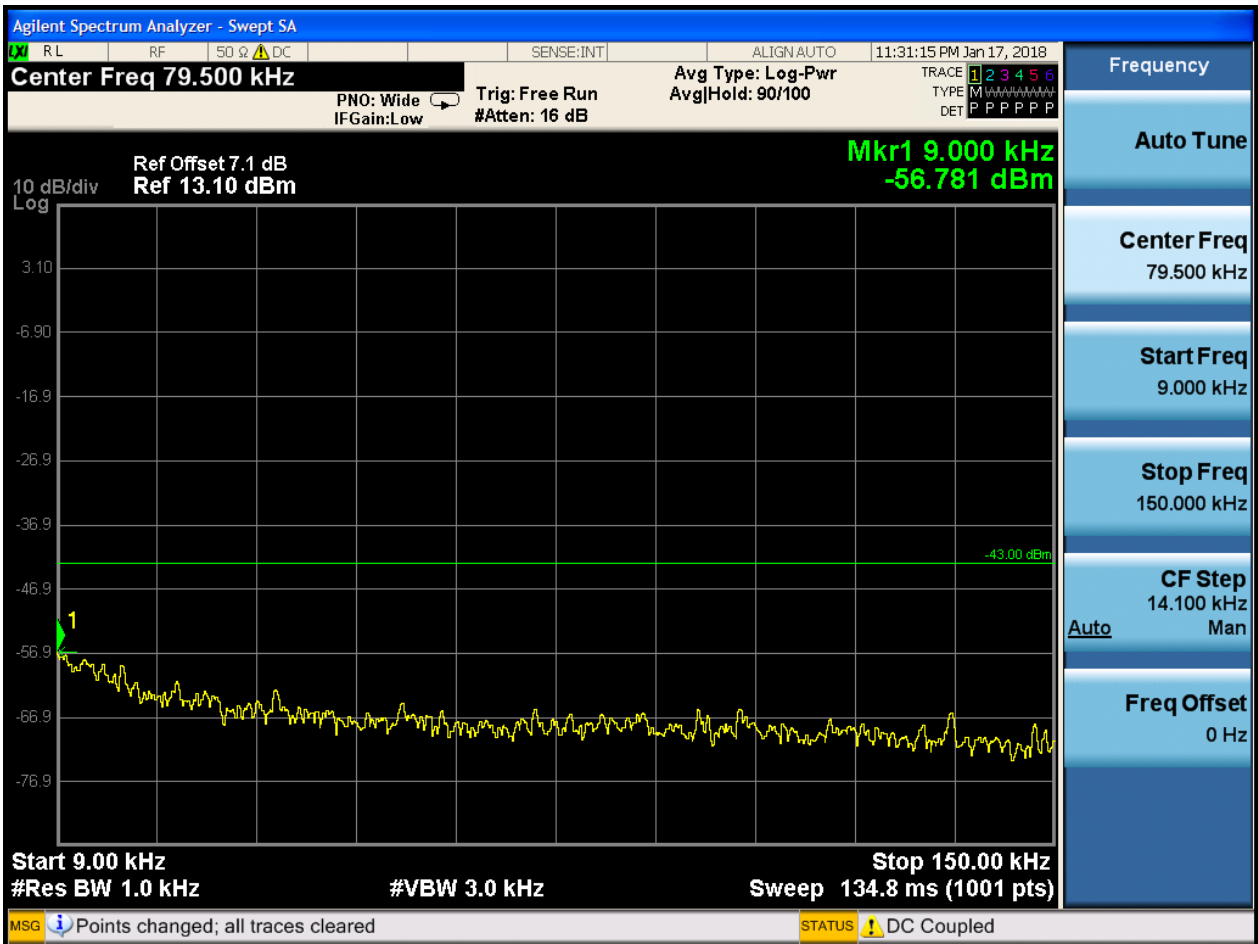


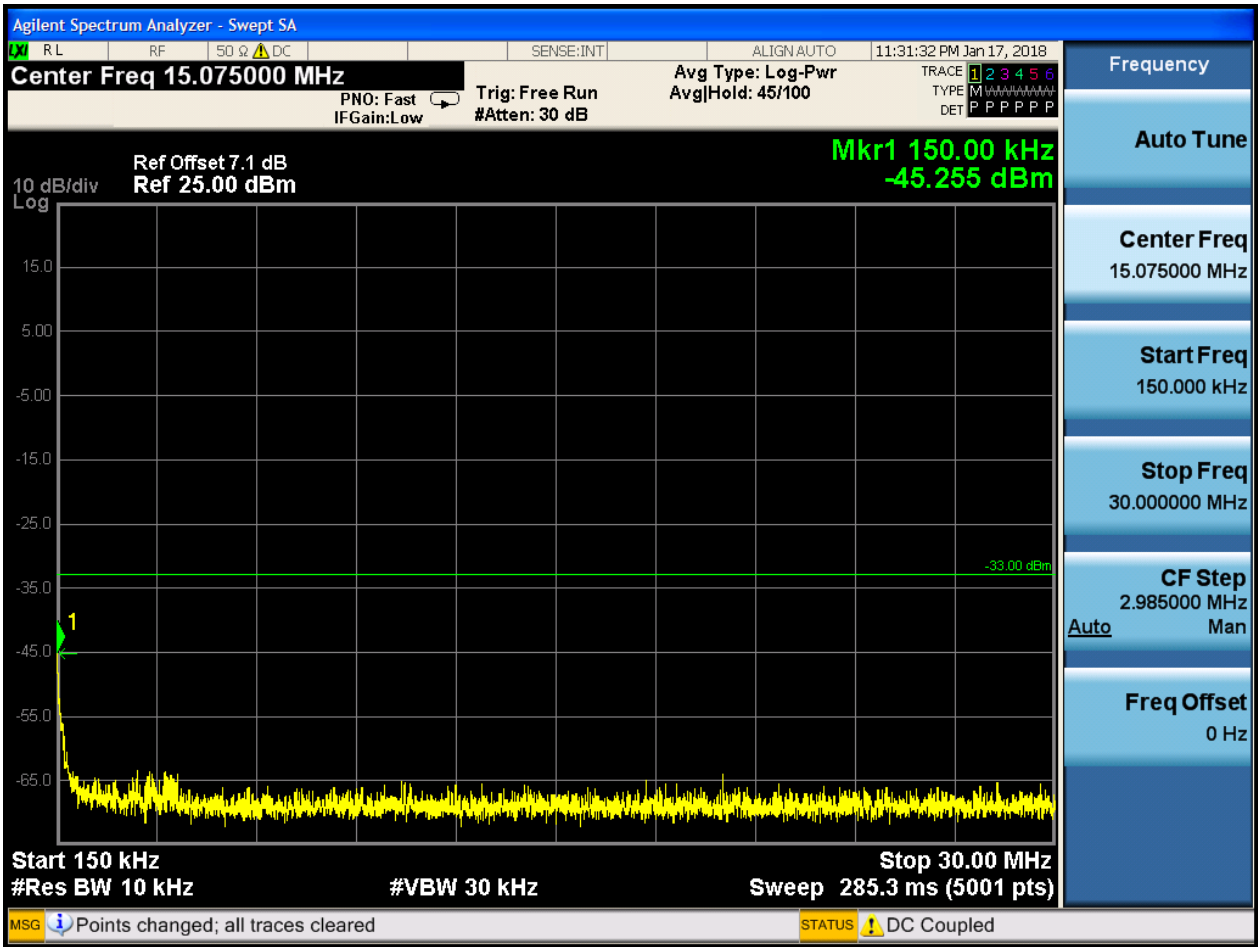


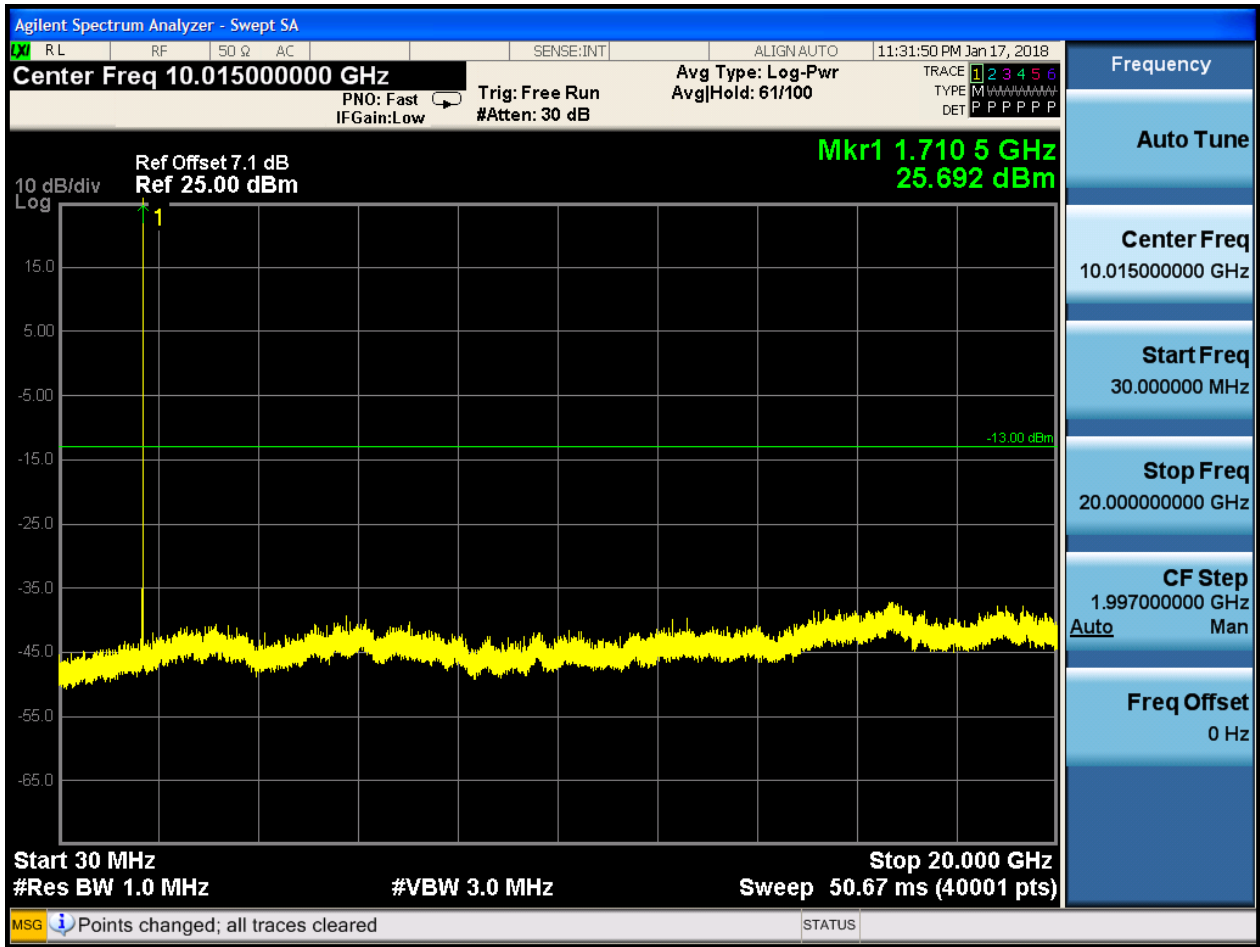
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



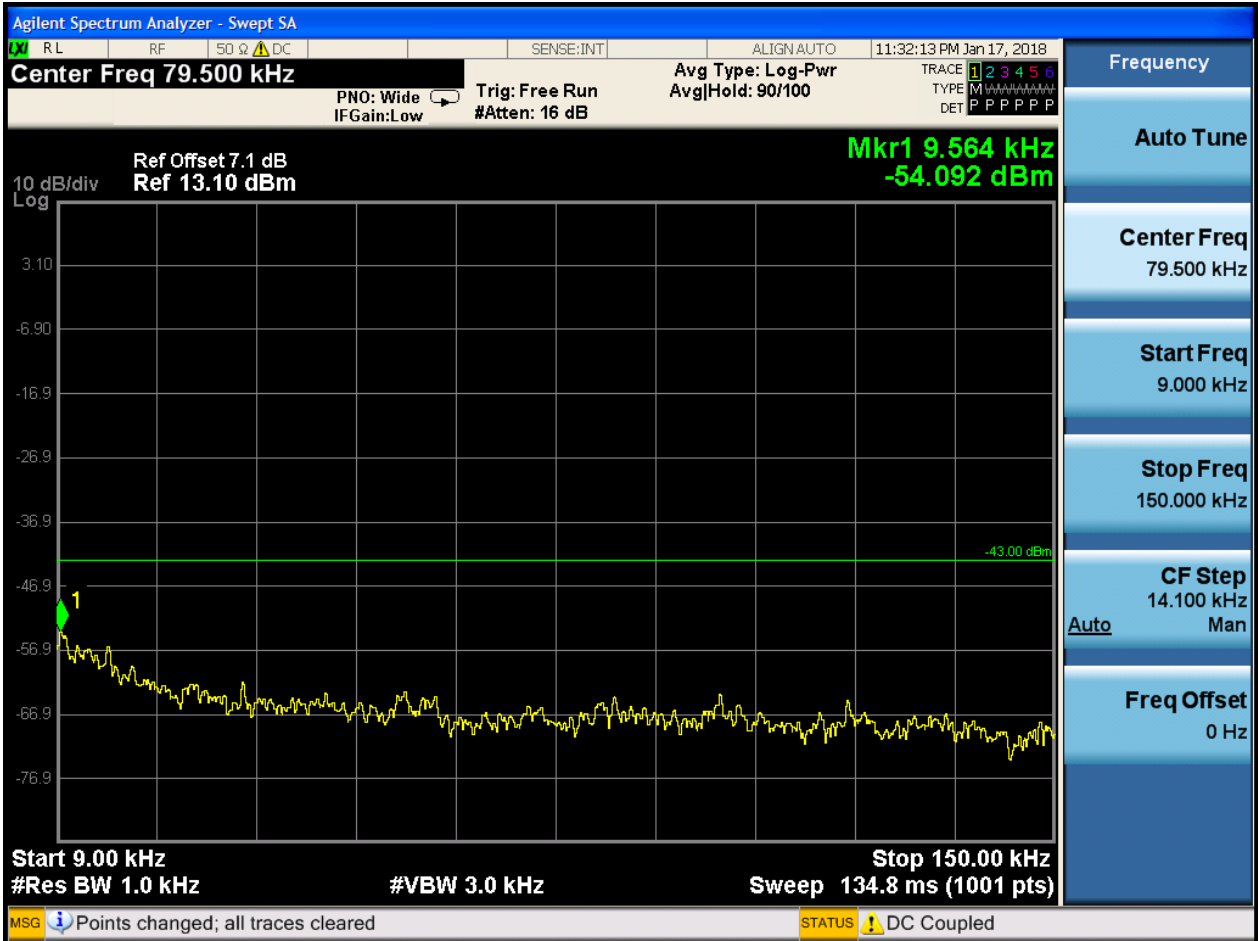


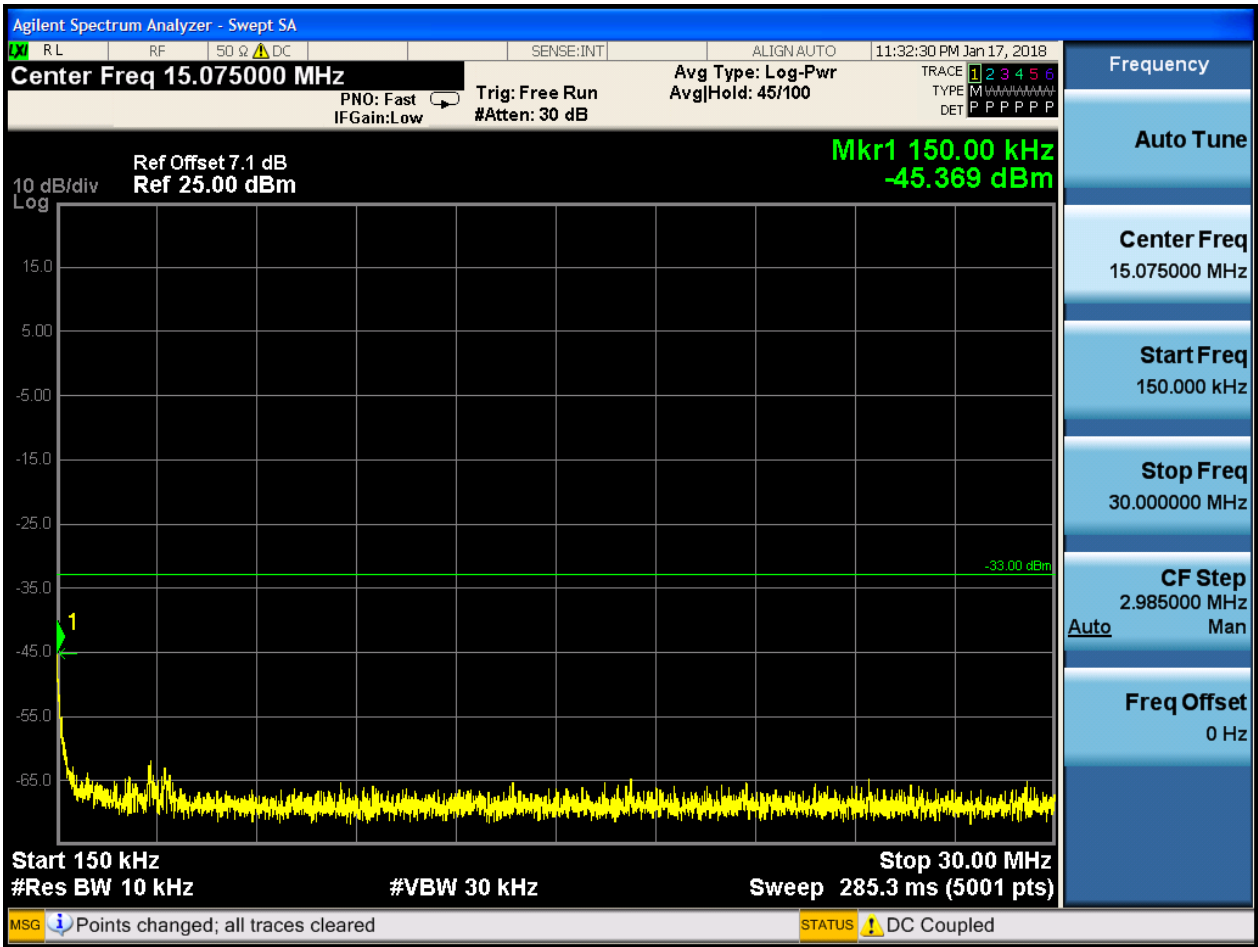


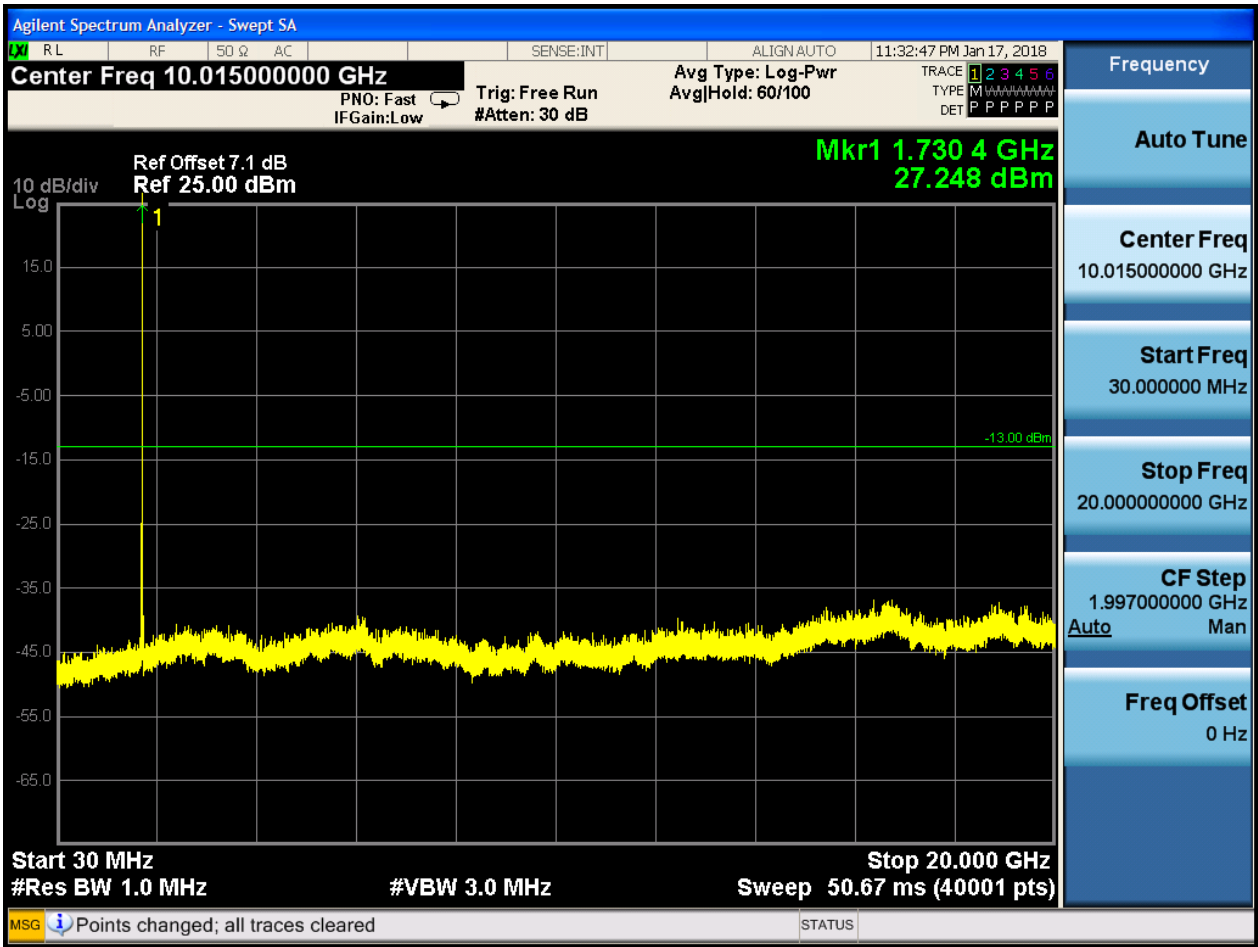


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



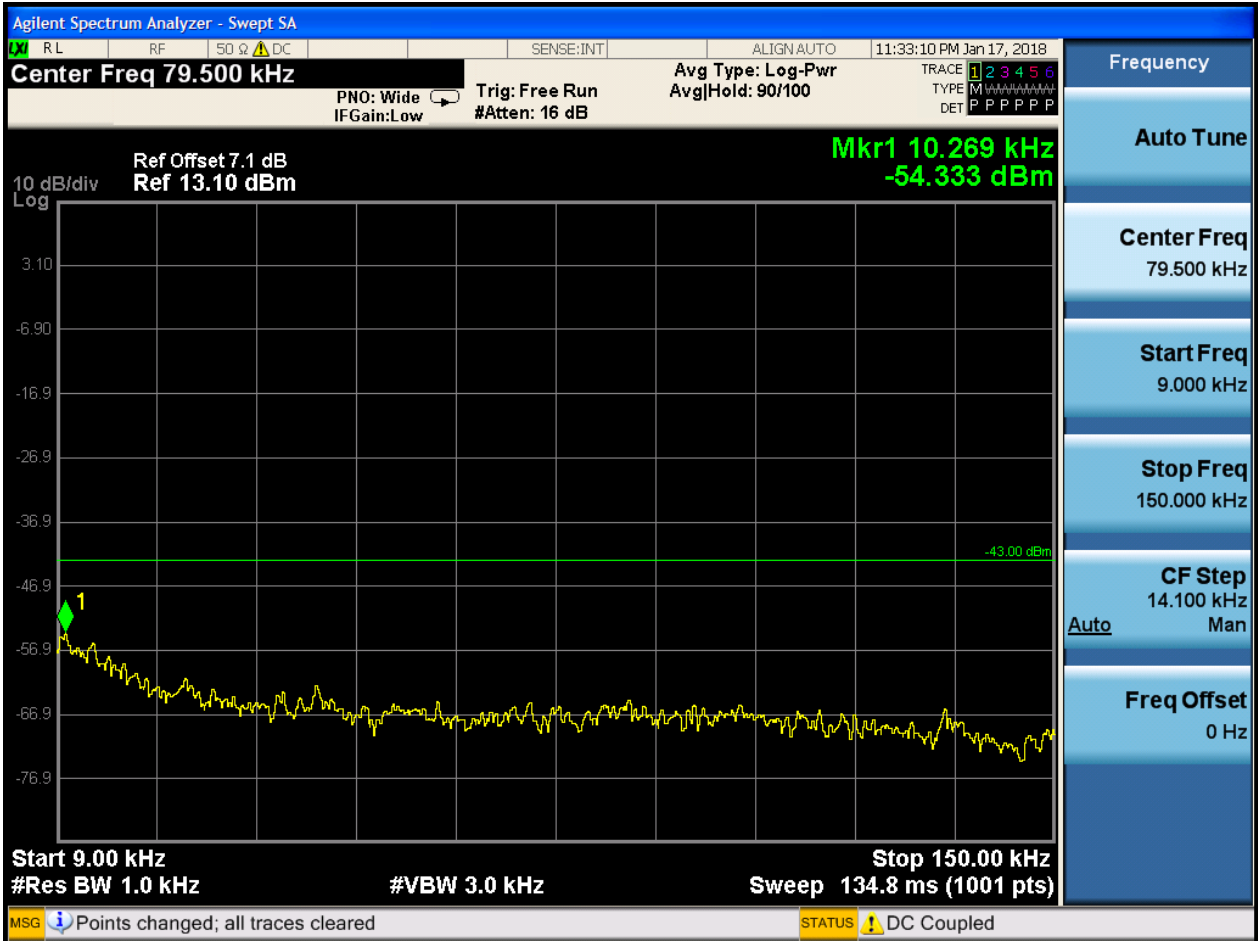


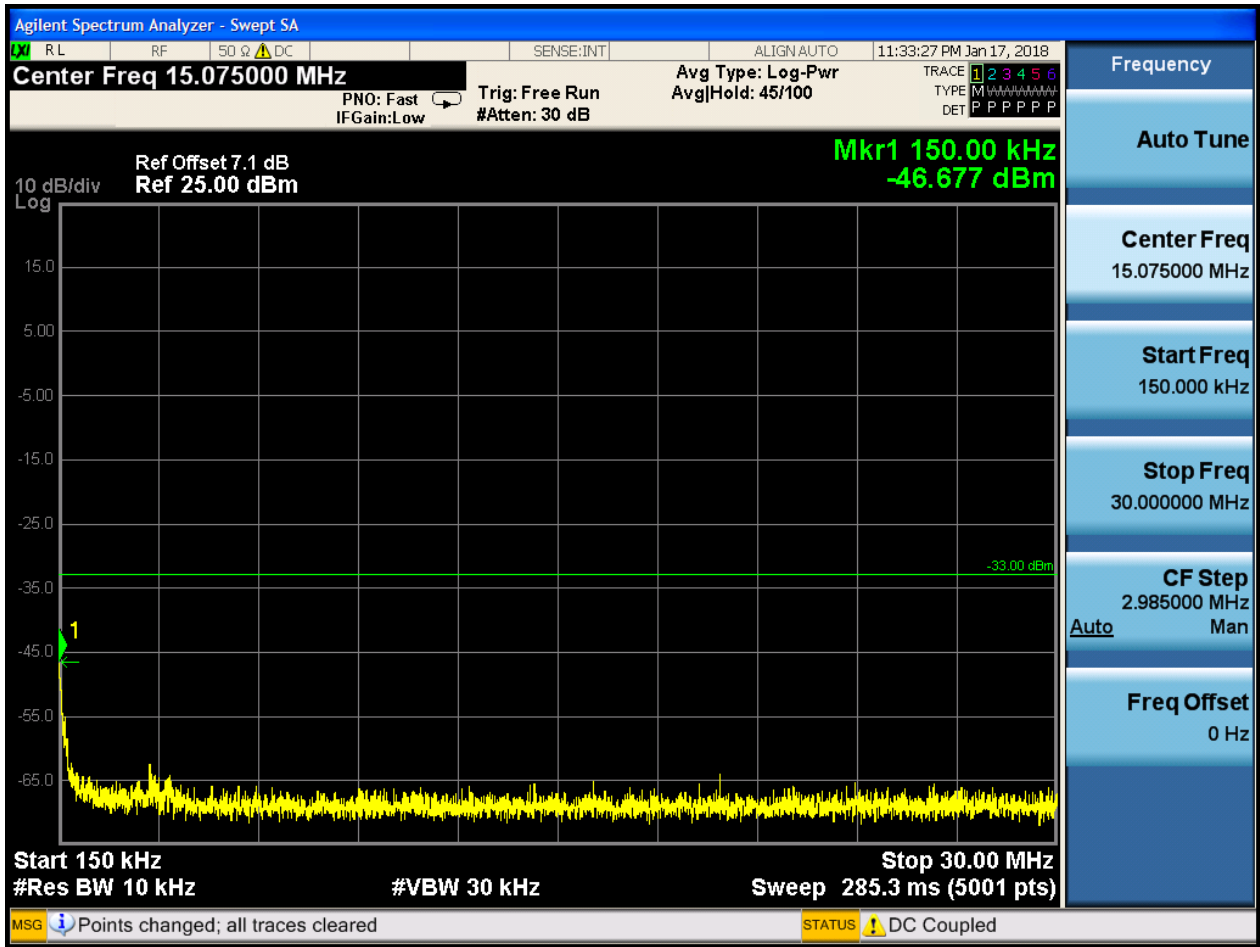


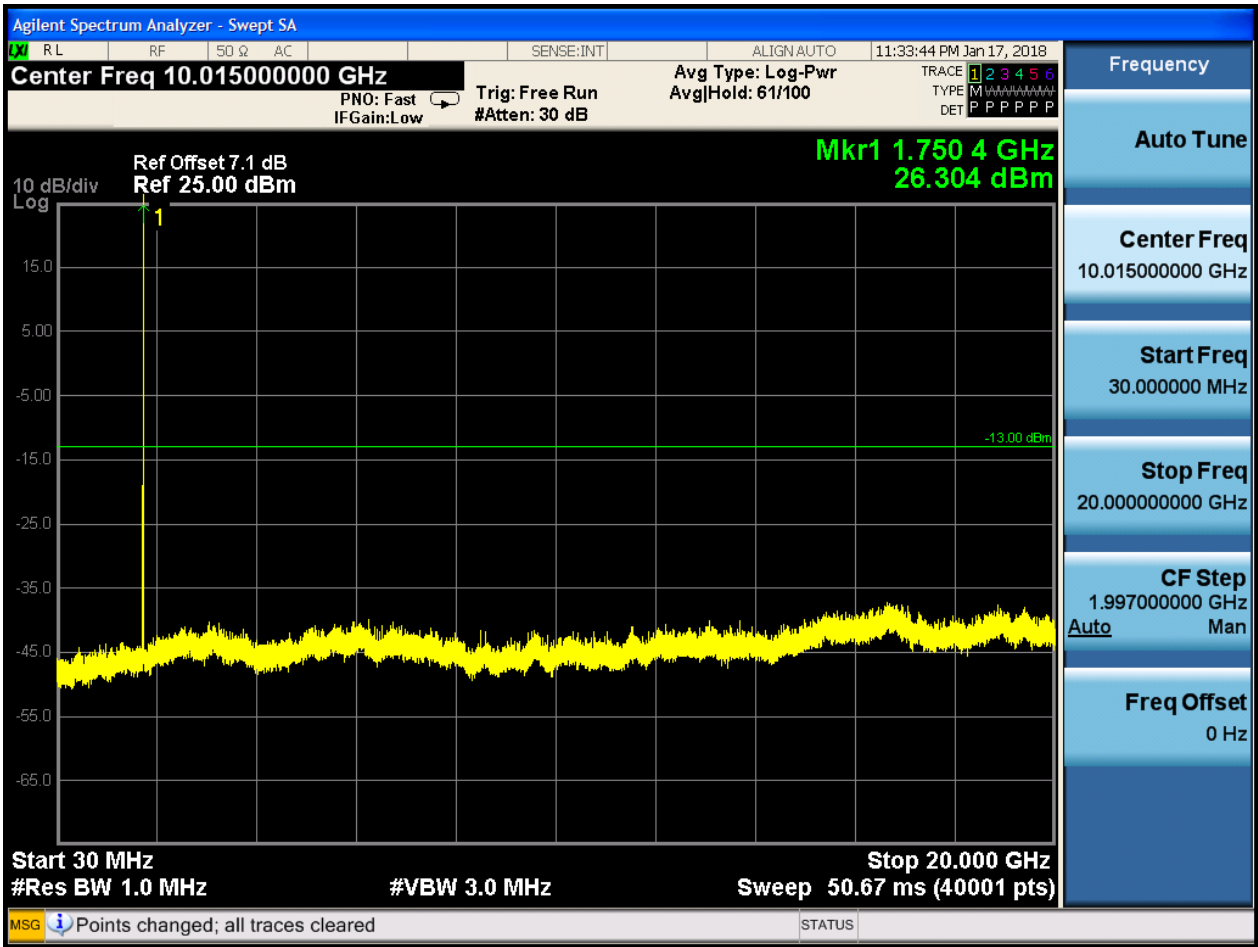


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





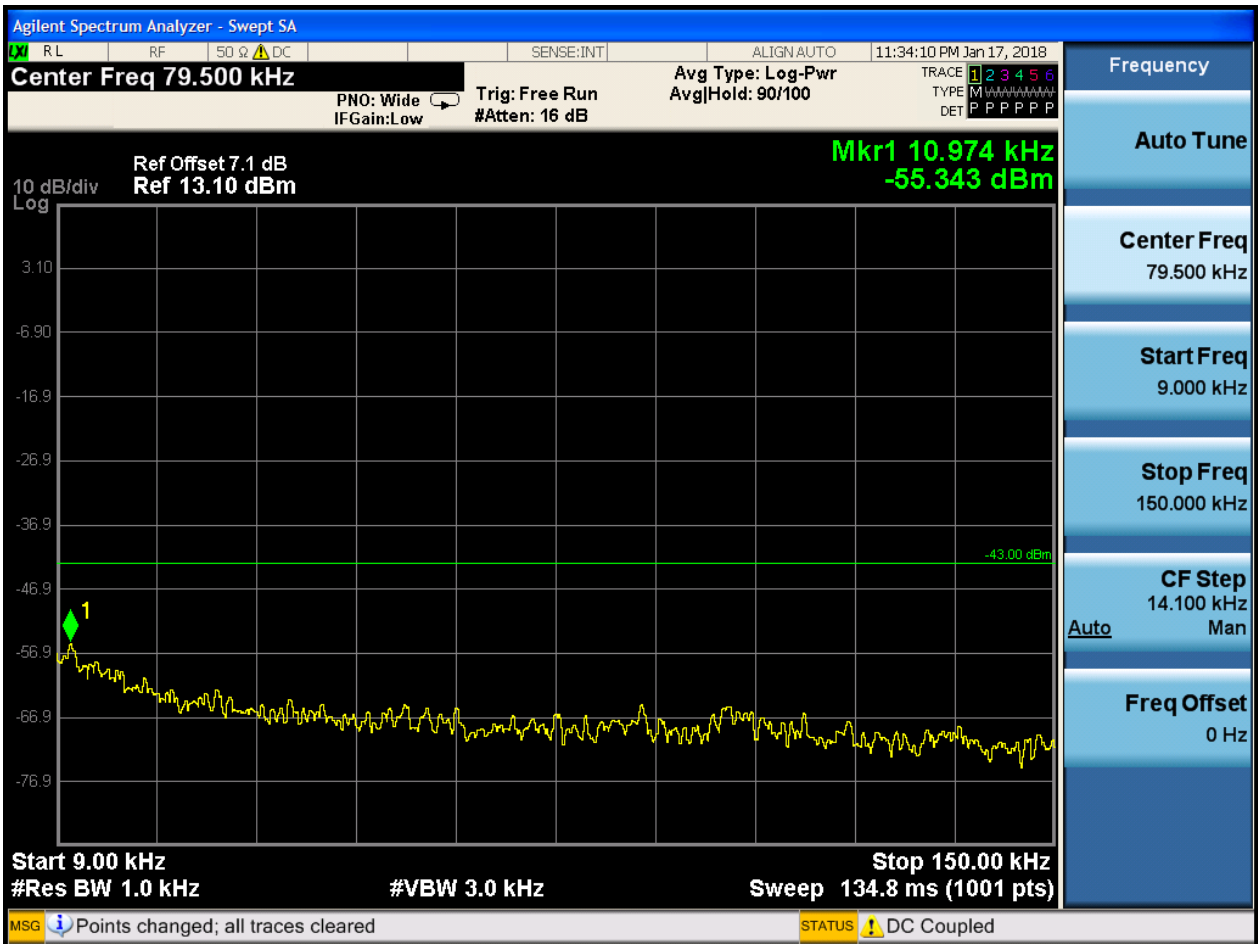


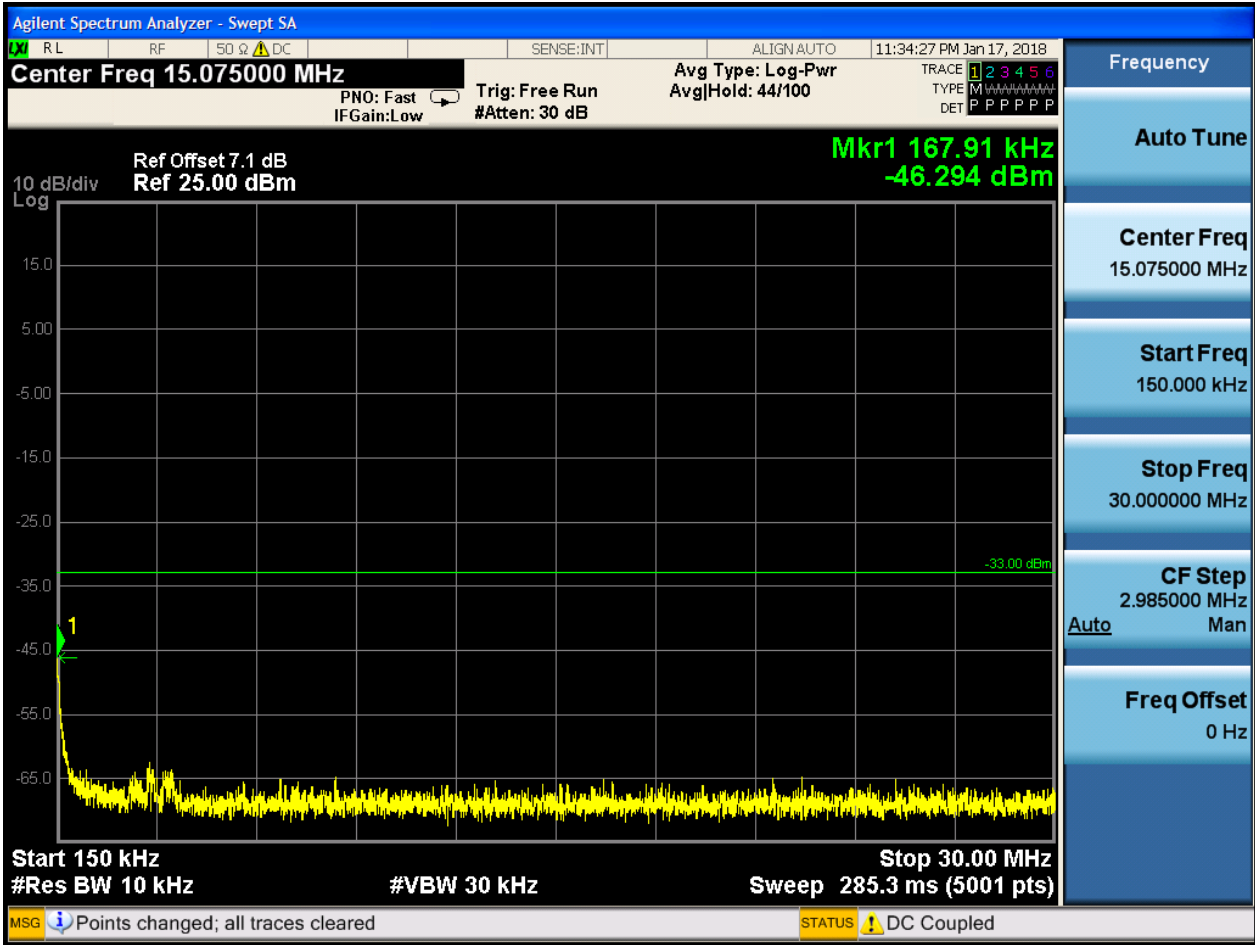


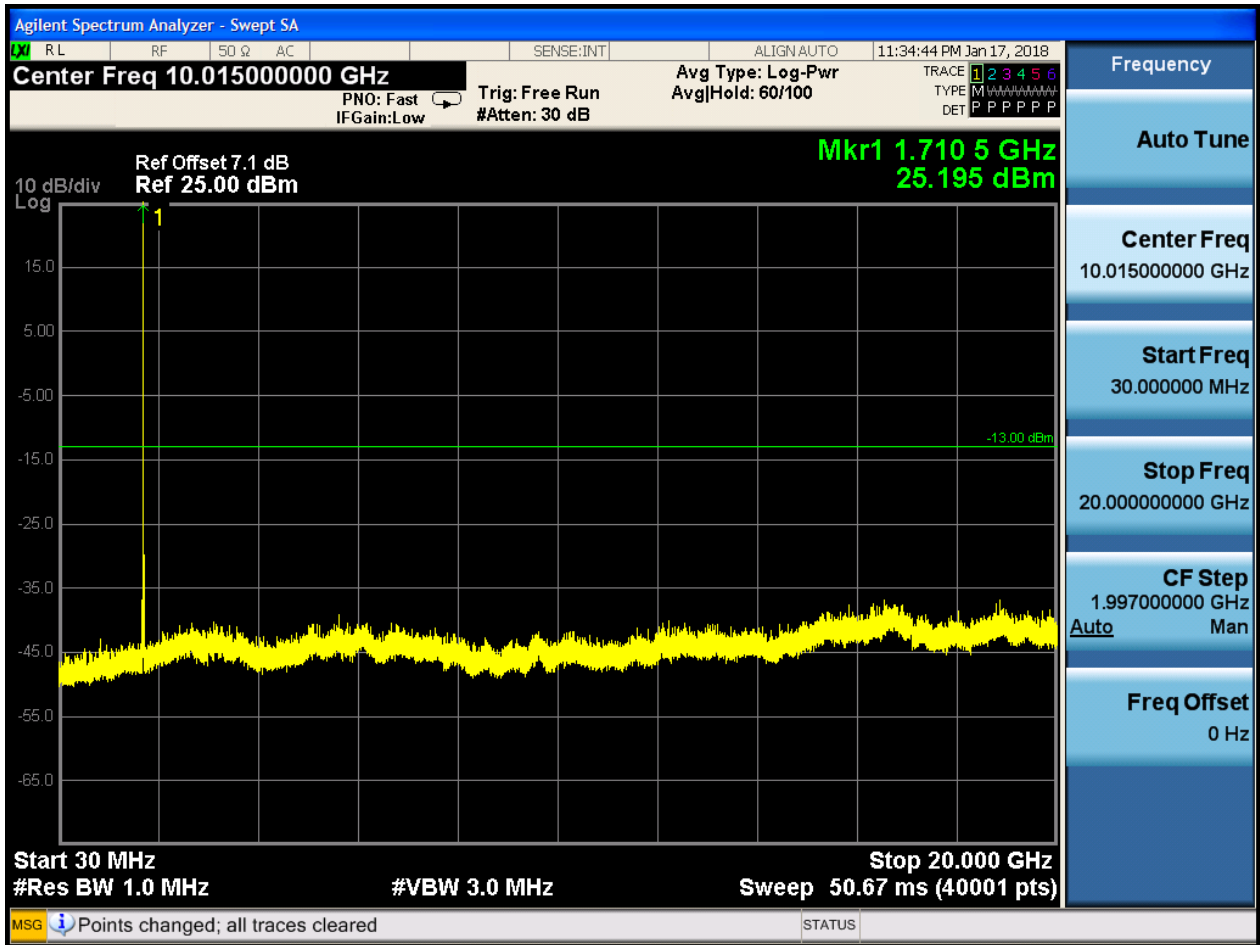
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



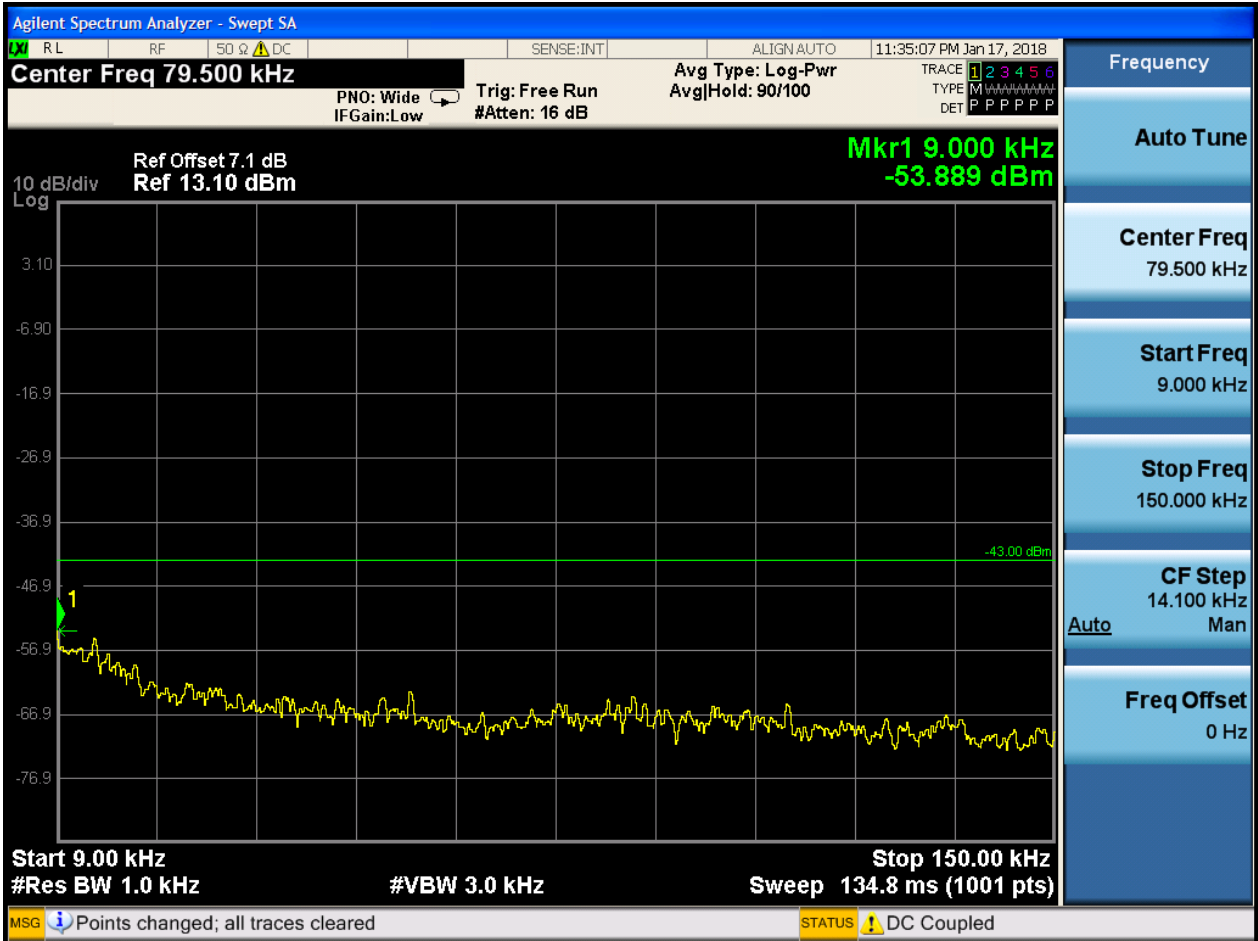


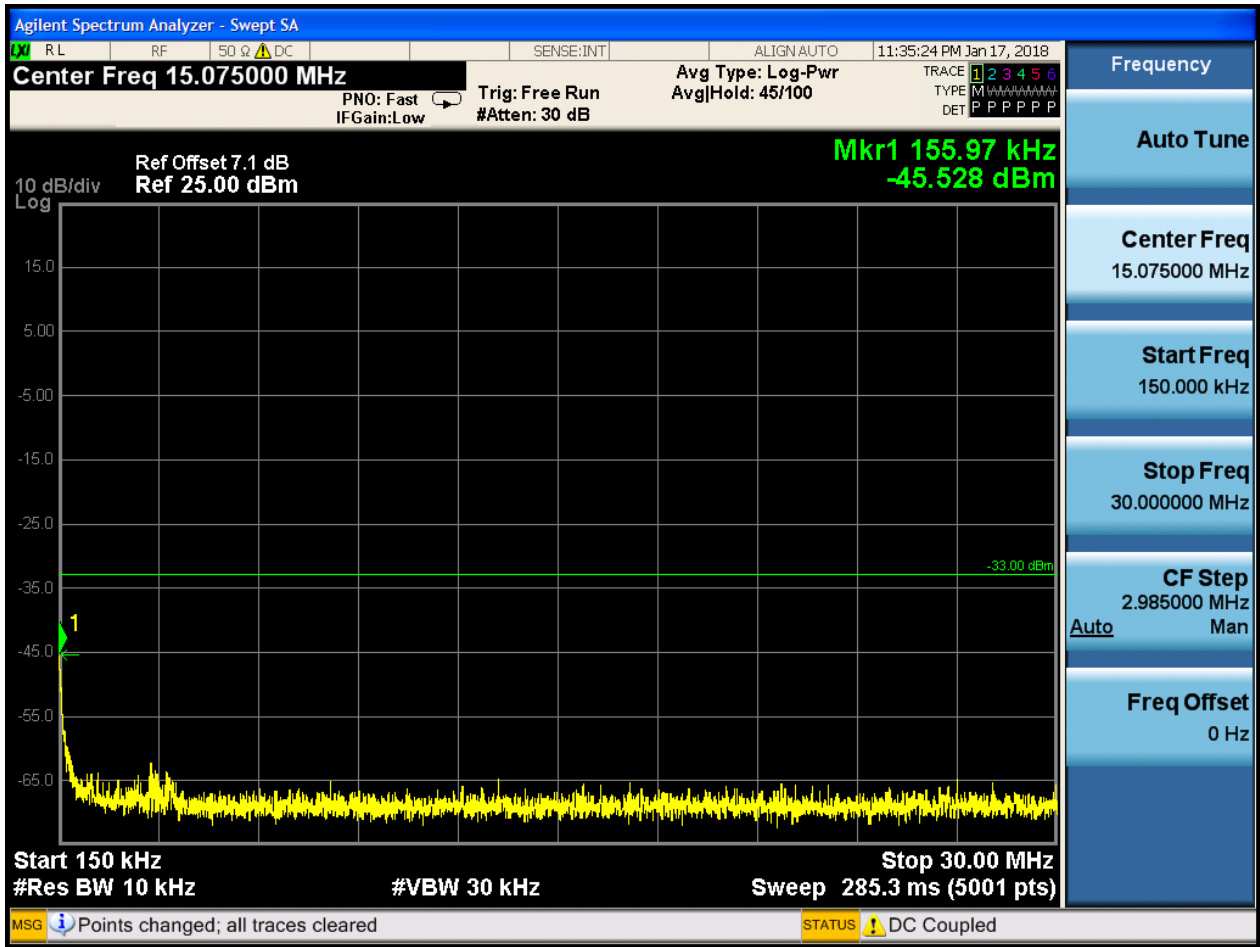


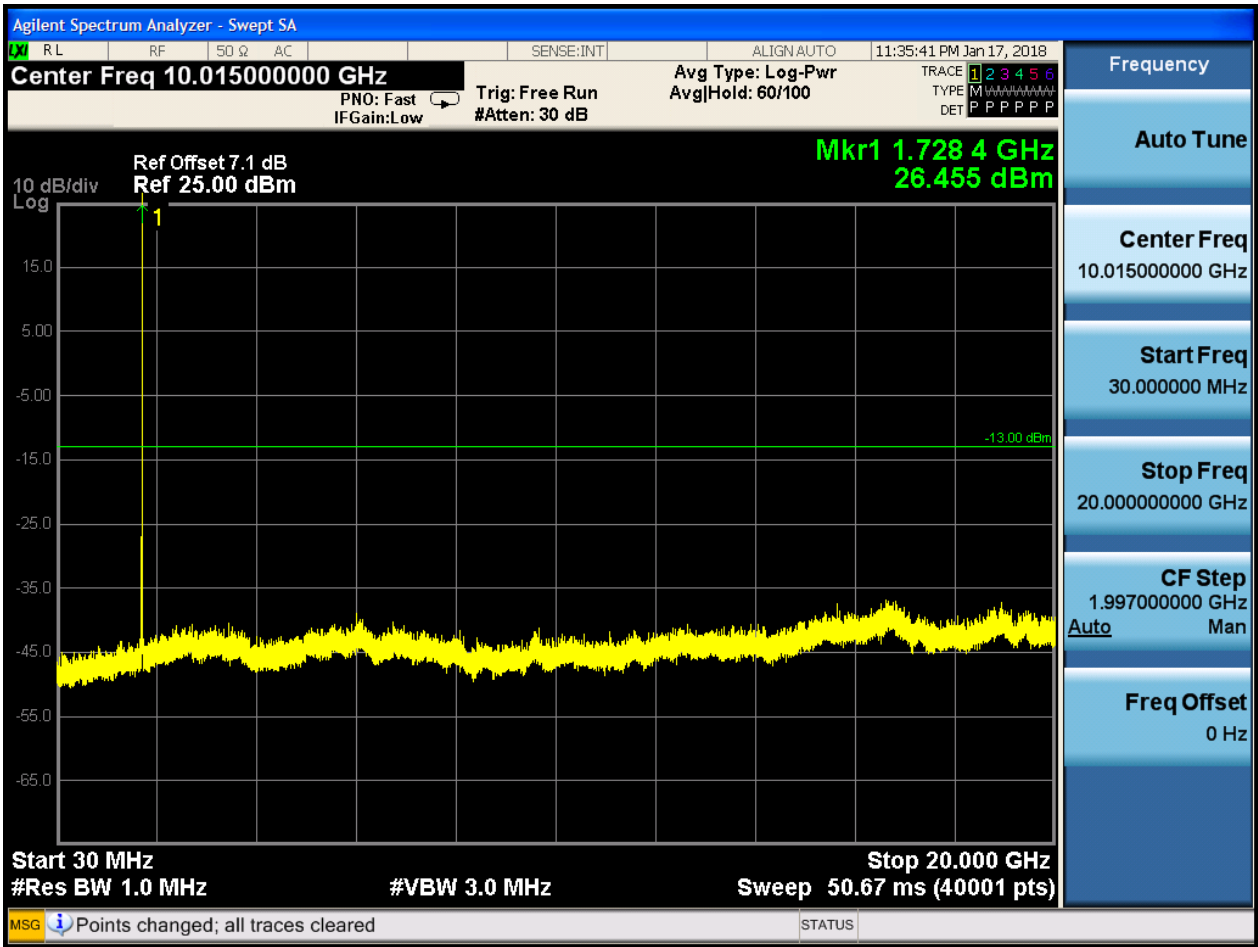


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



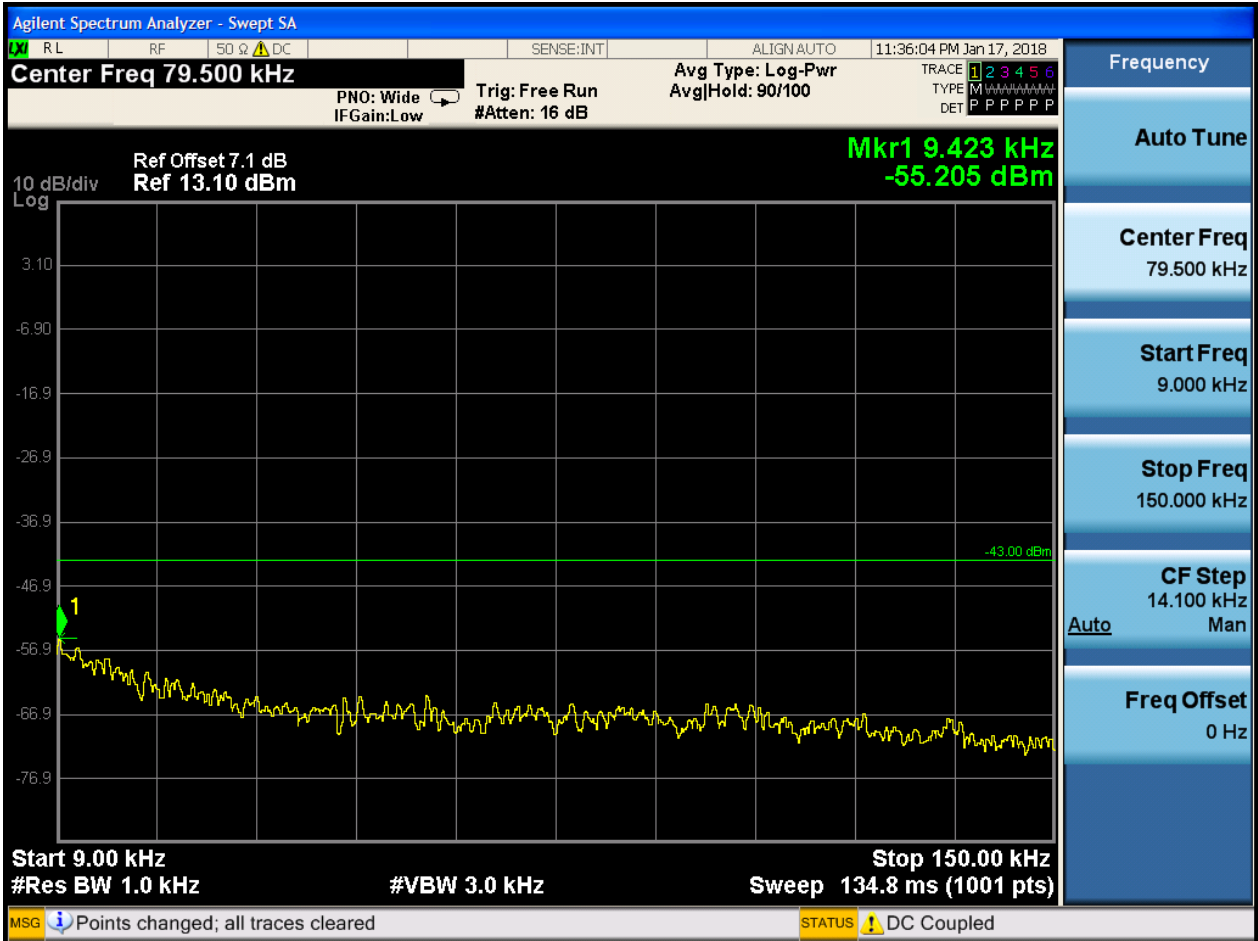


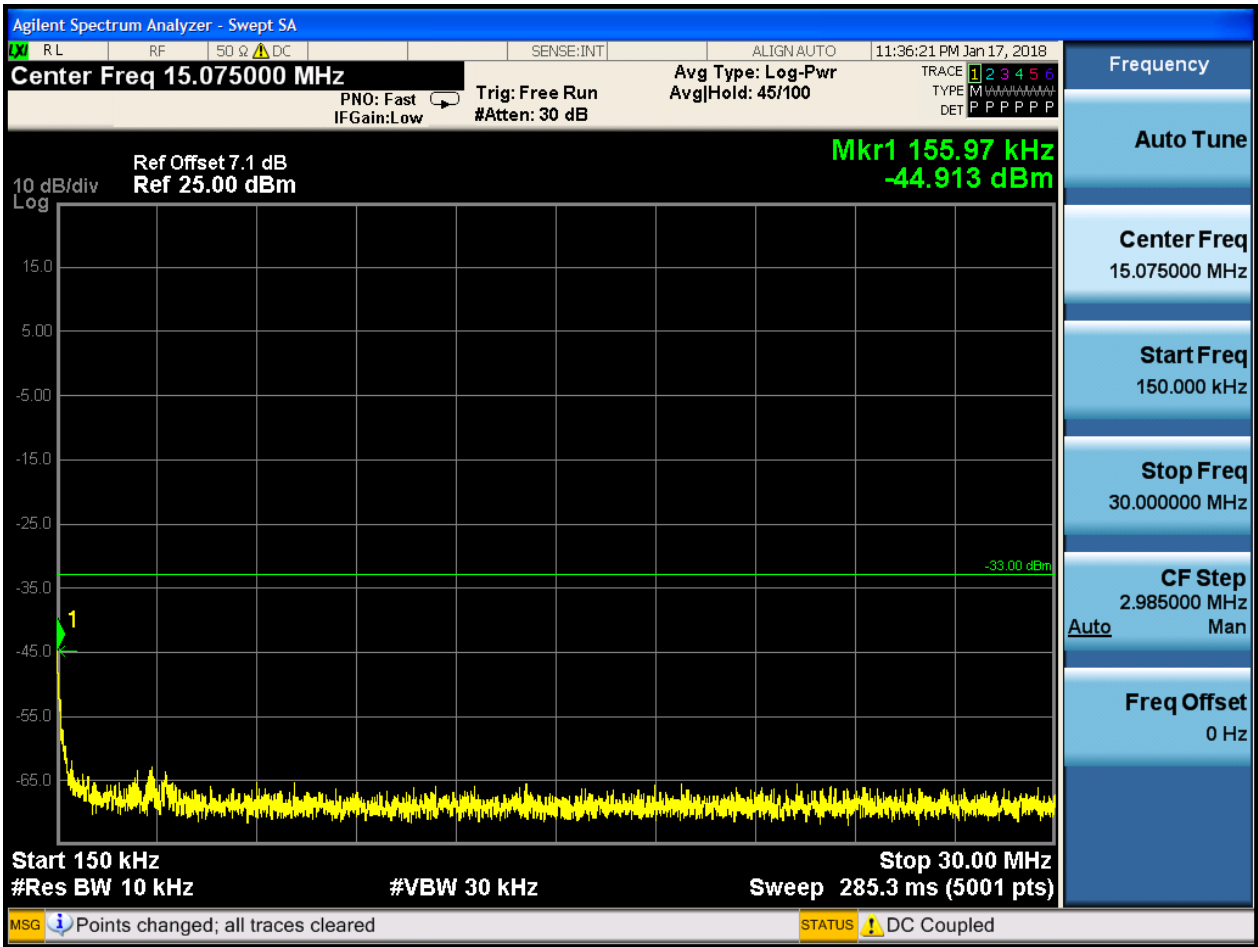


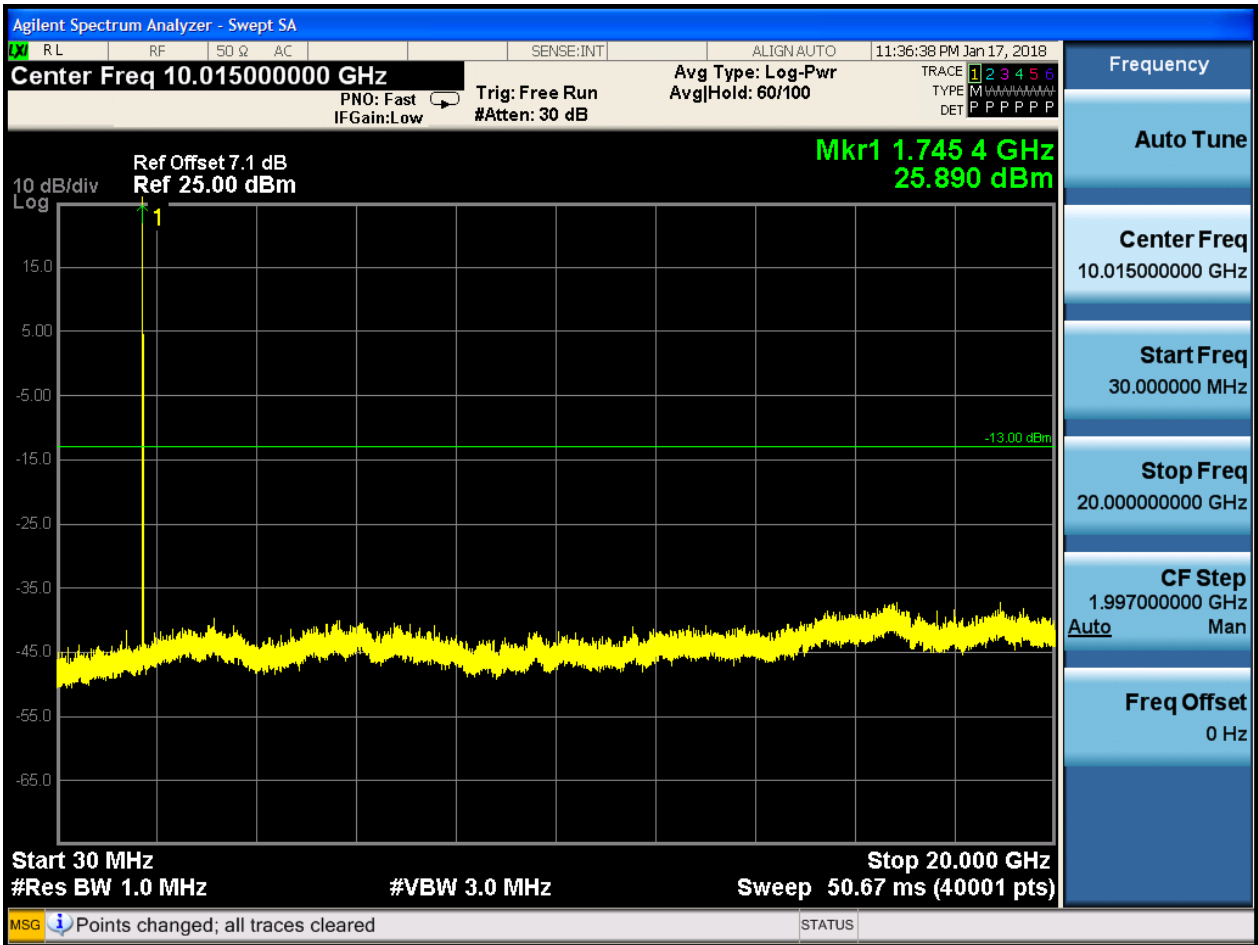


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0





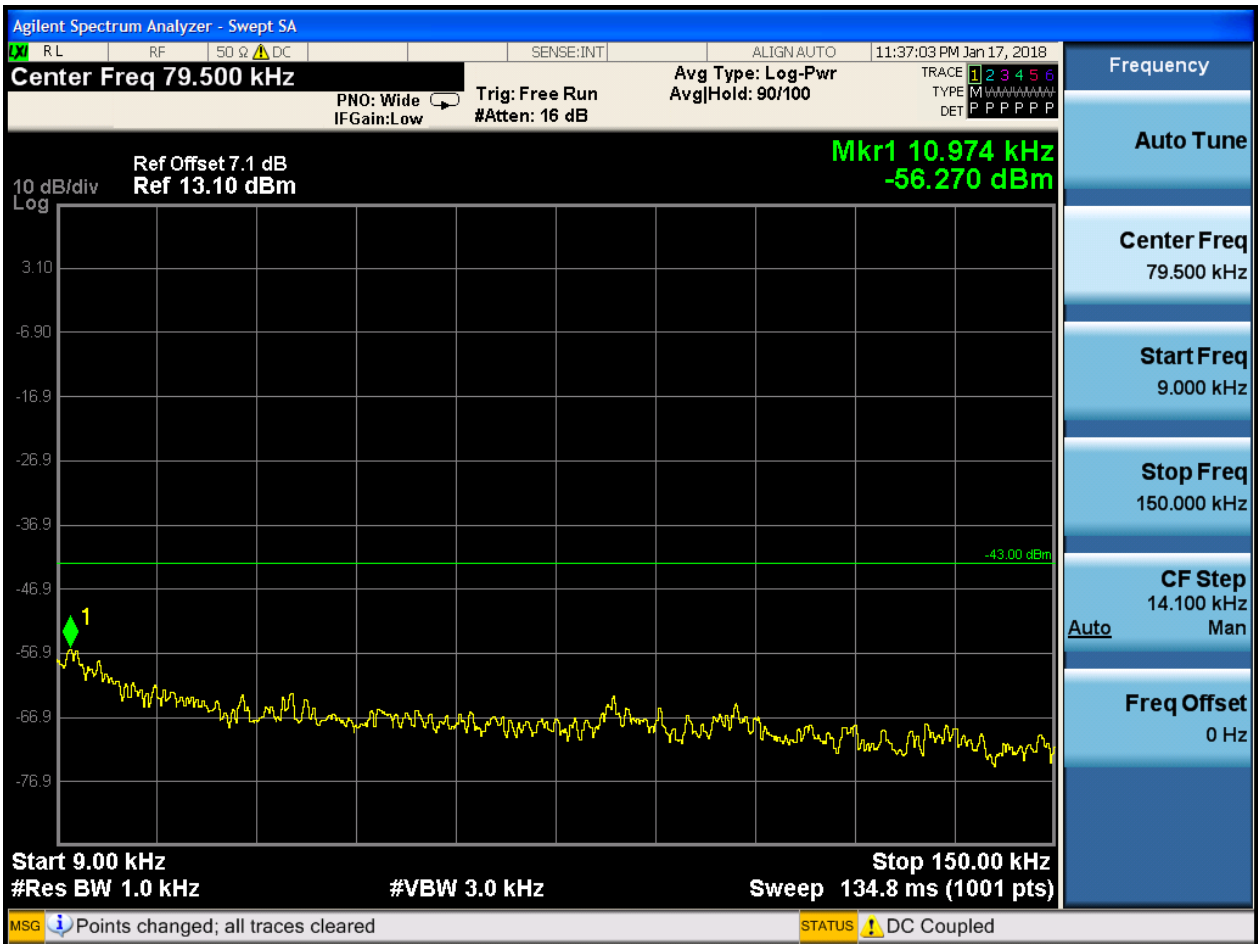


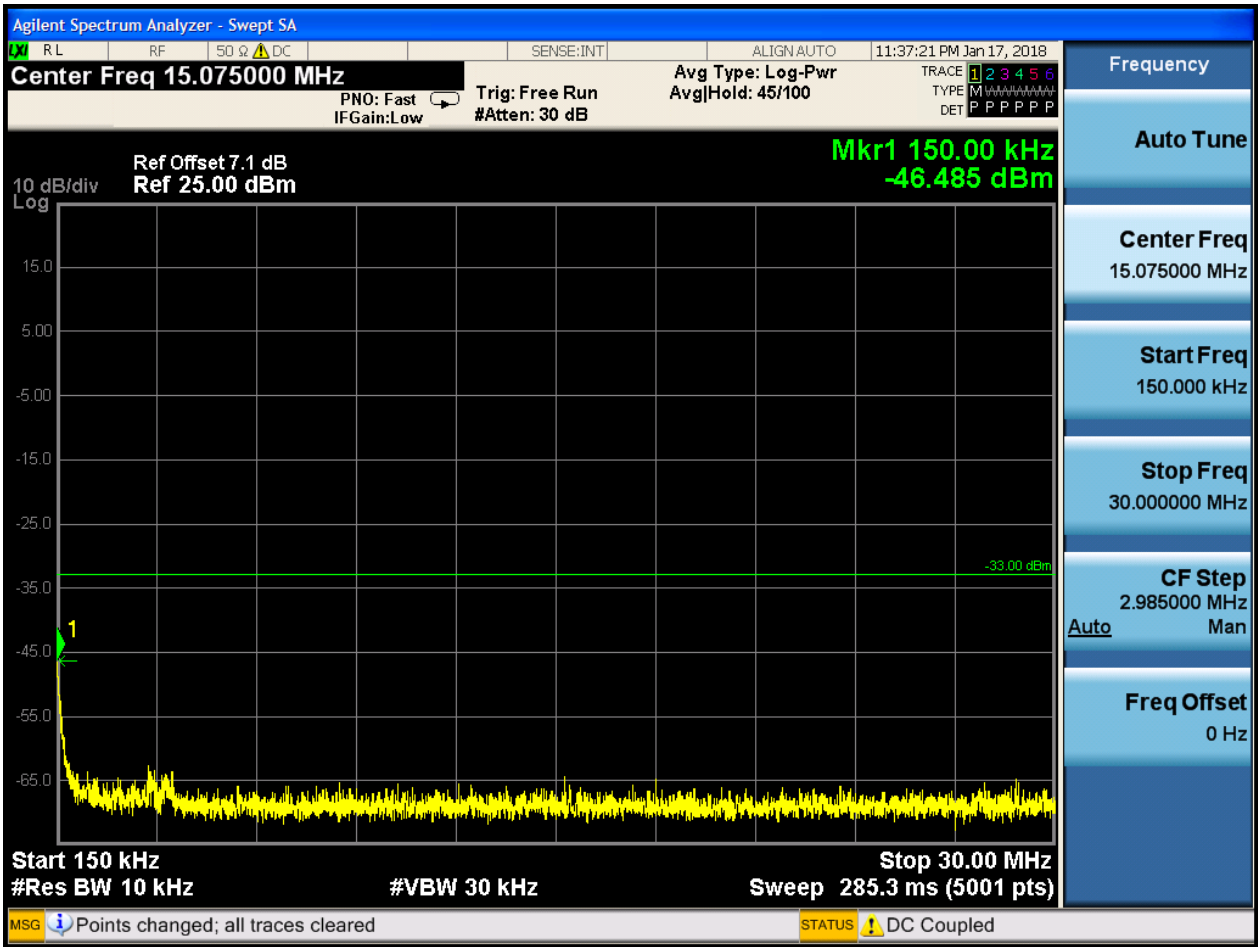


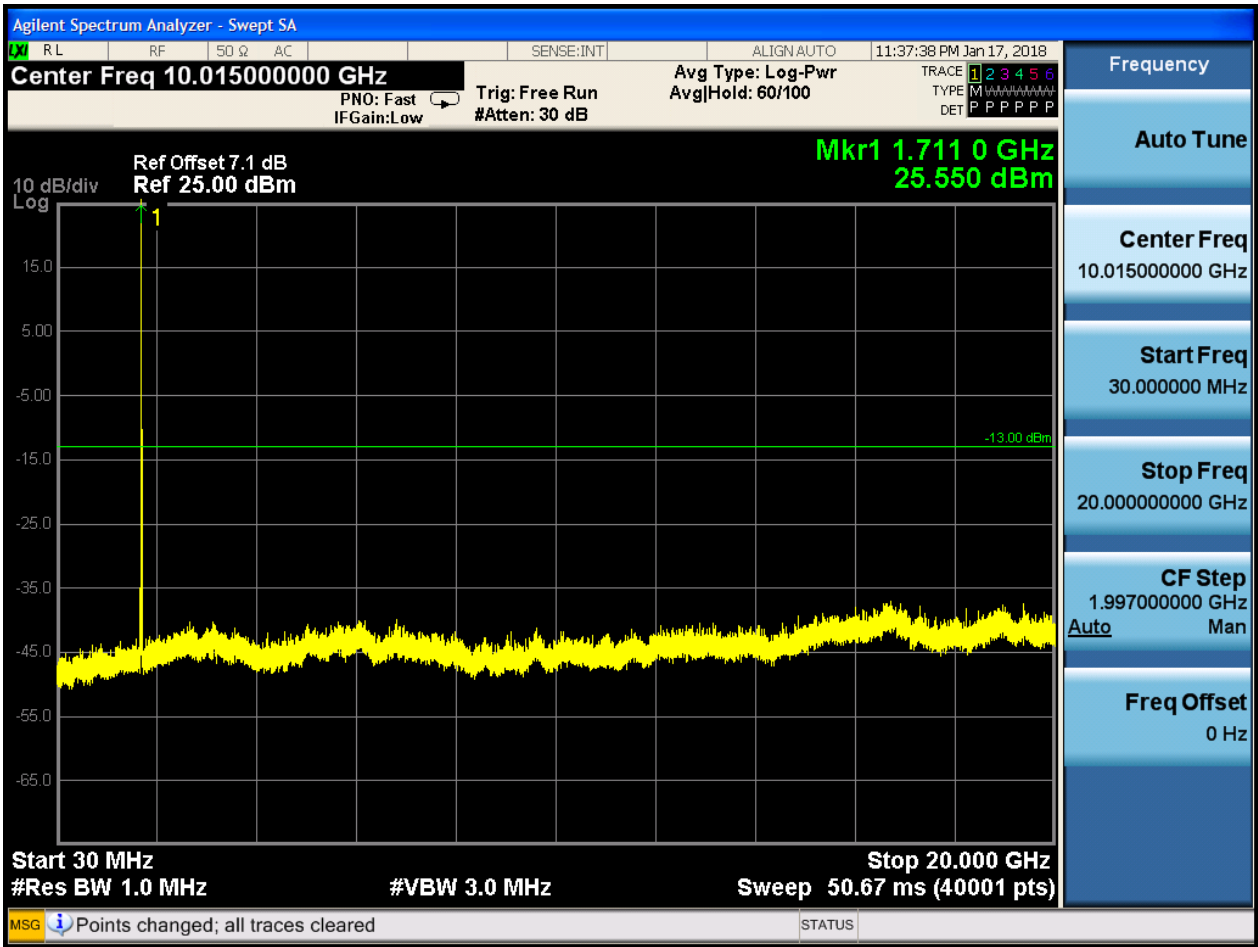
6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

6.1.1.2.5.1.1 Test RB = RB1#0



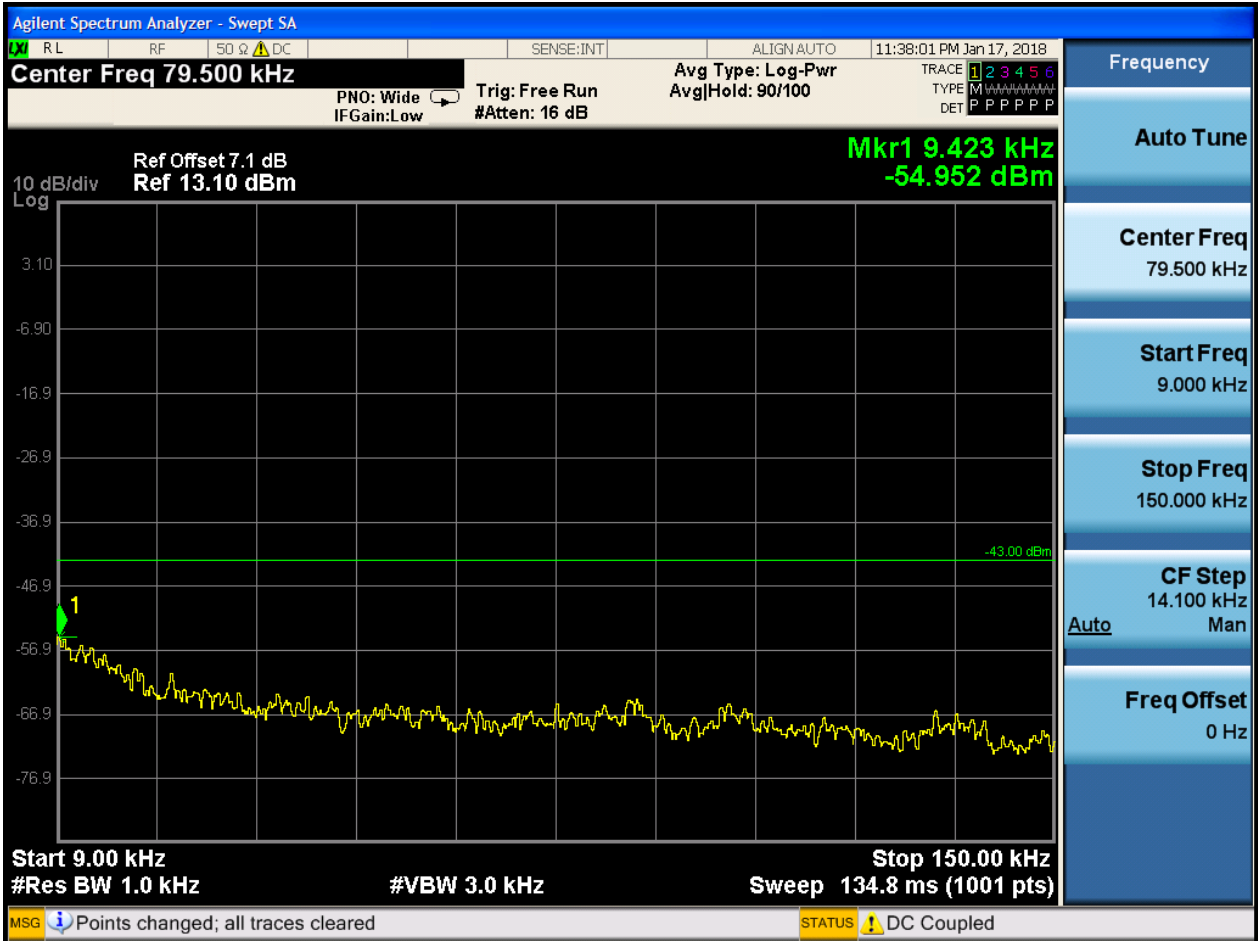


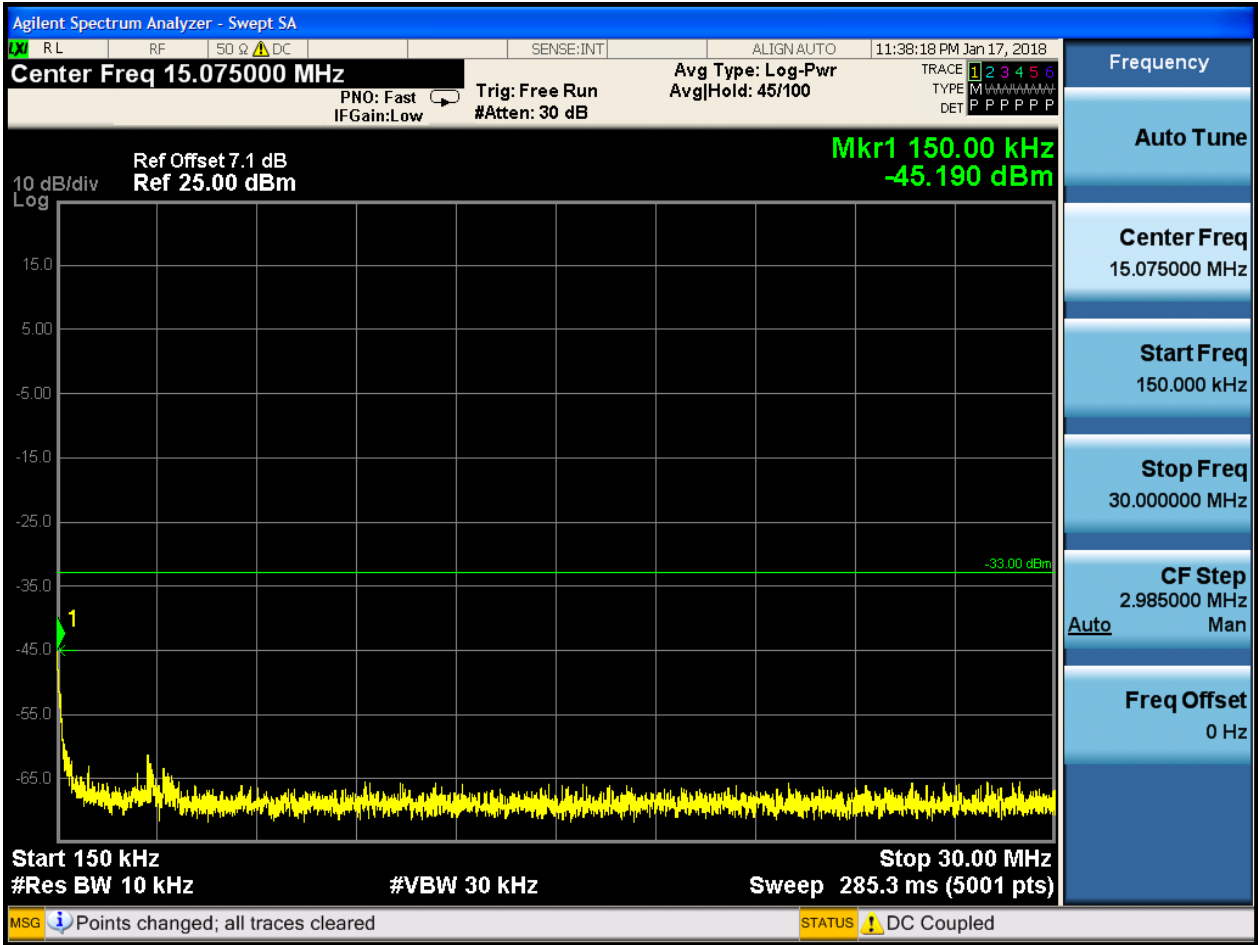


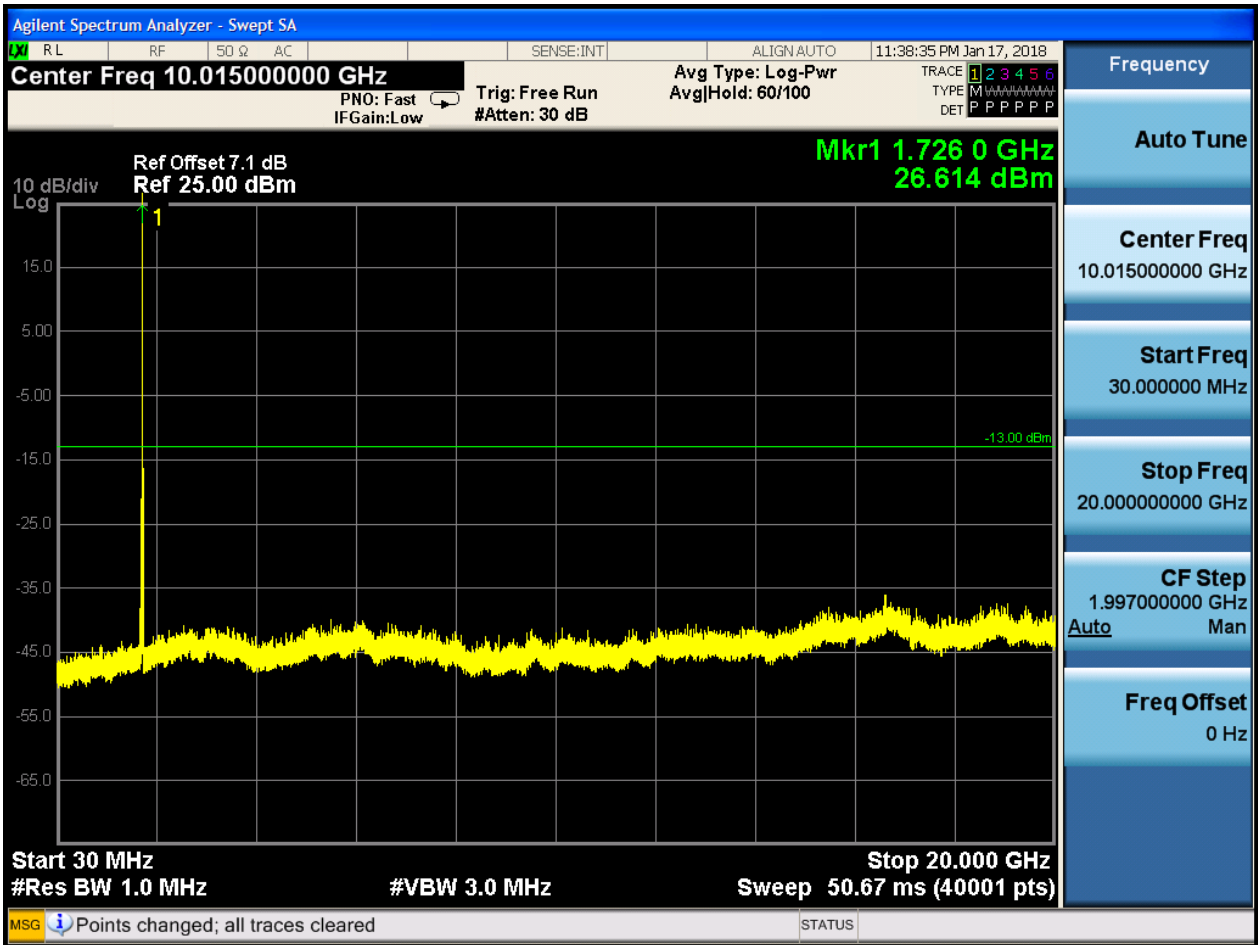


6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0



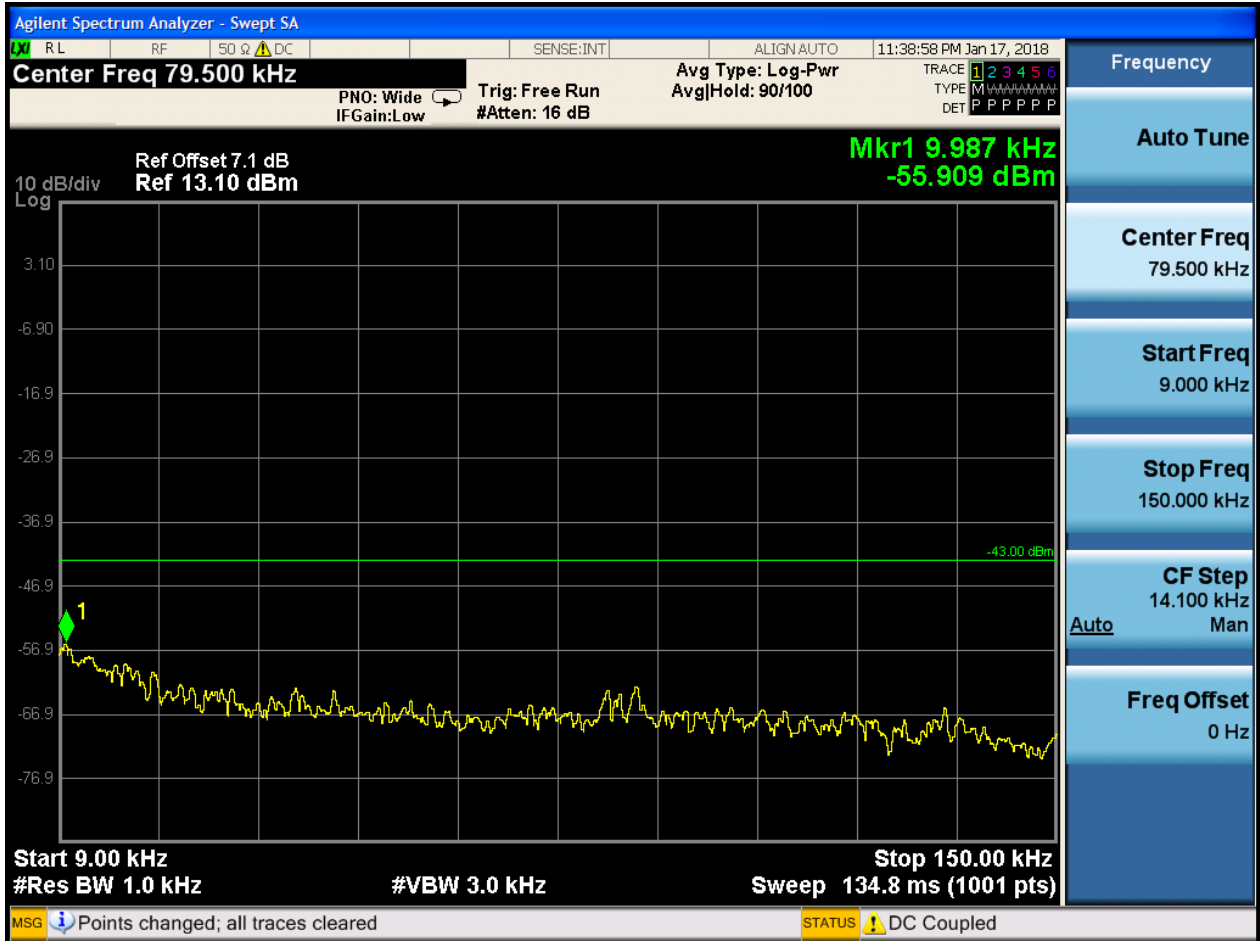


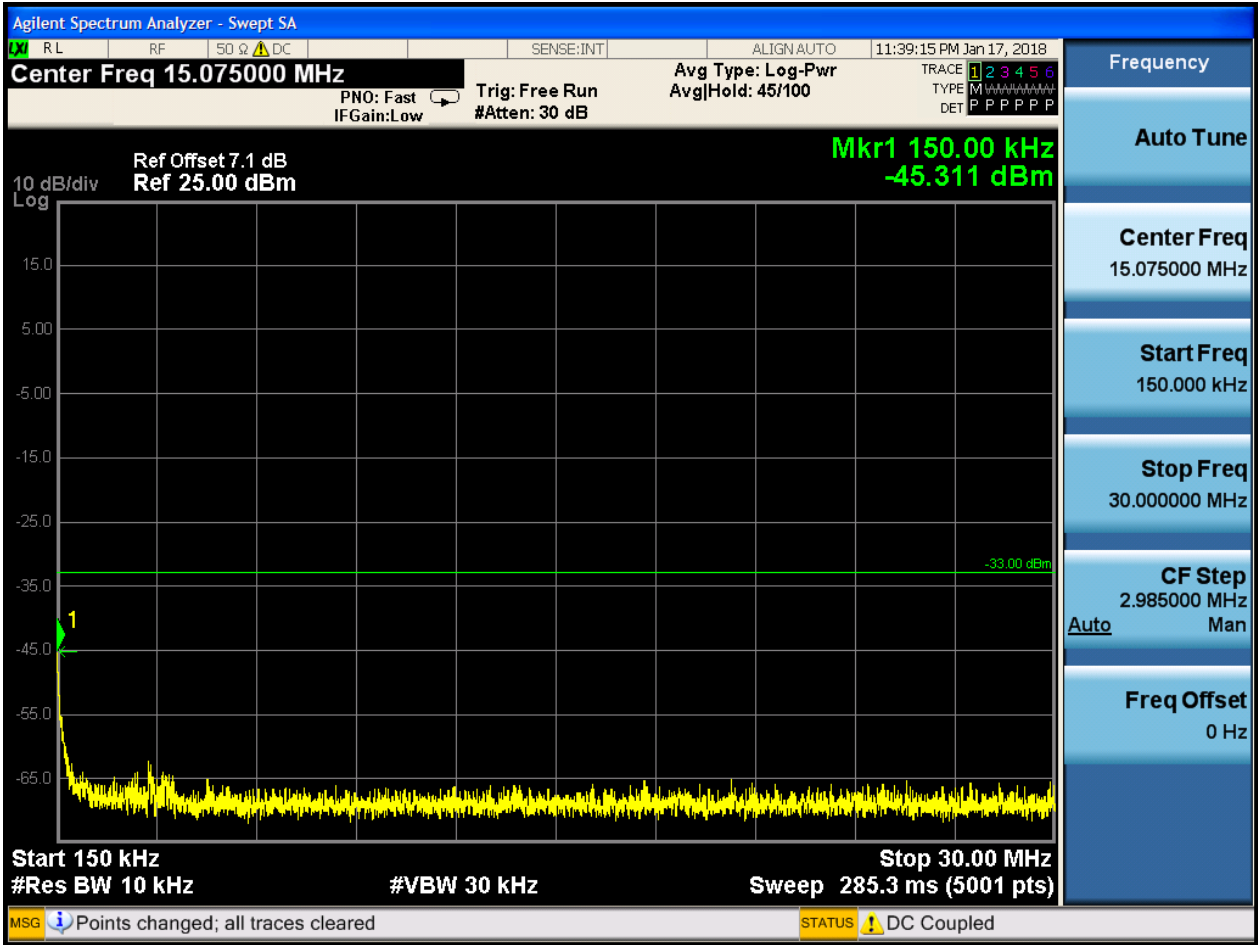


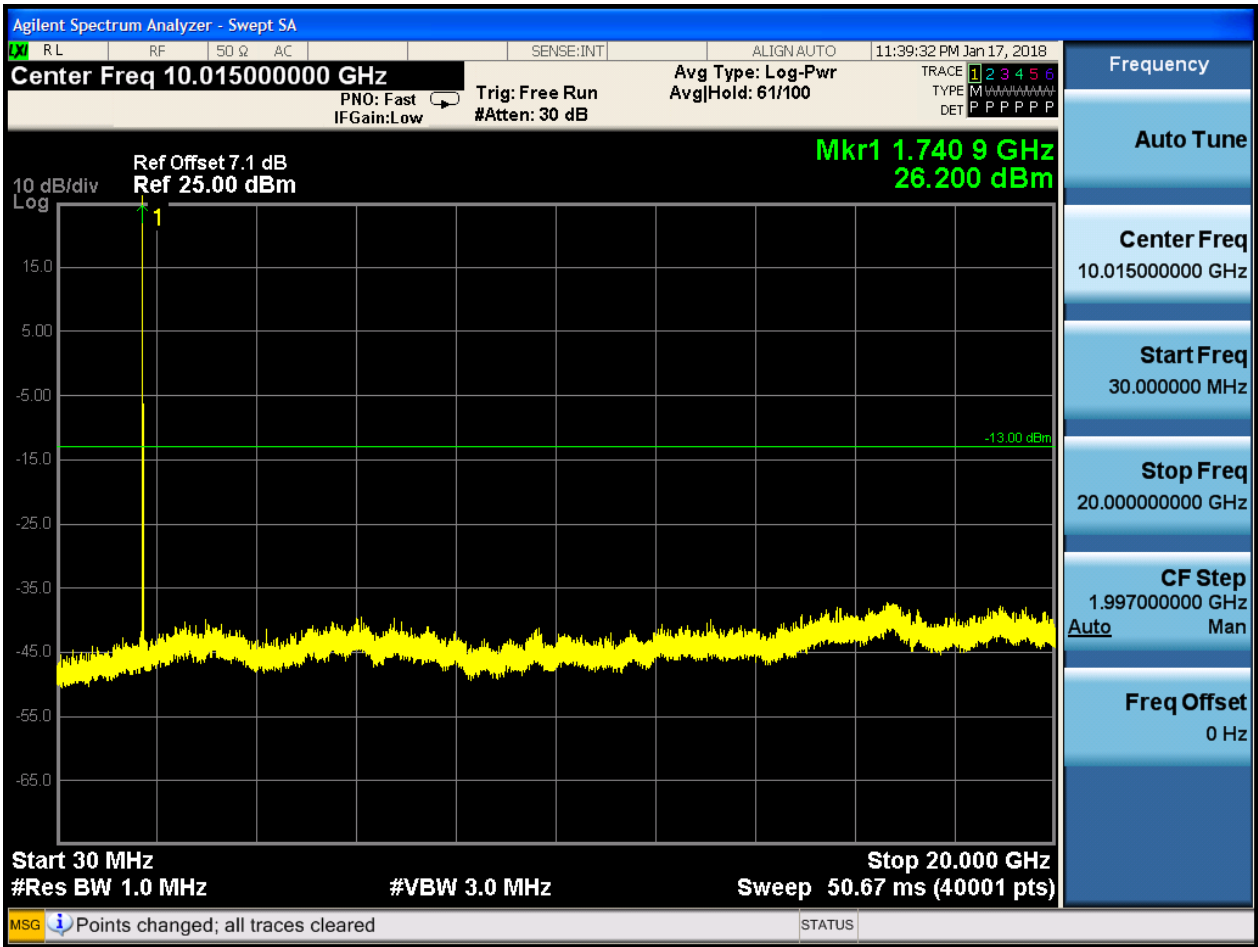


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0





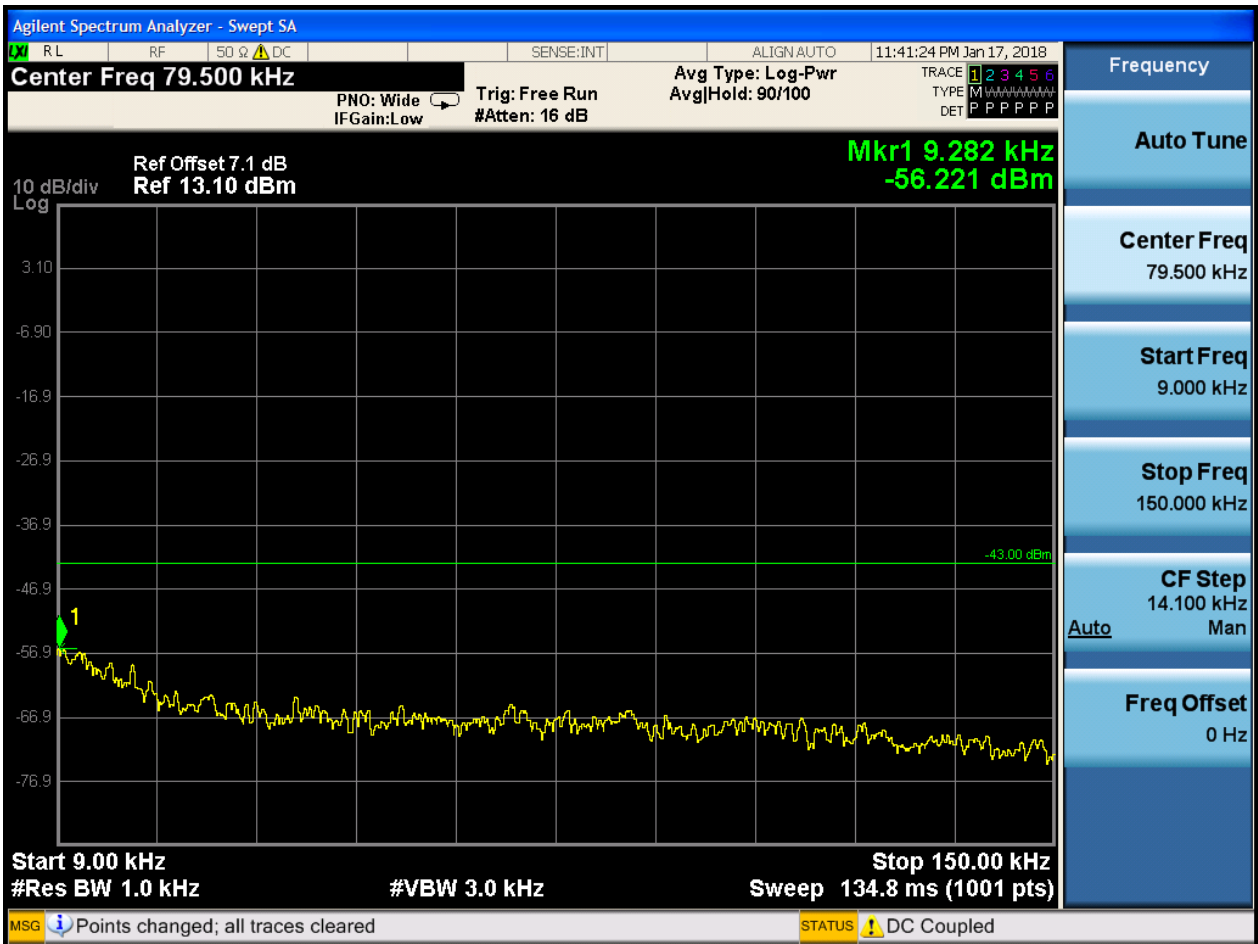


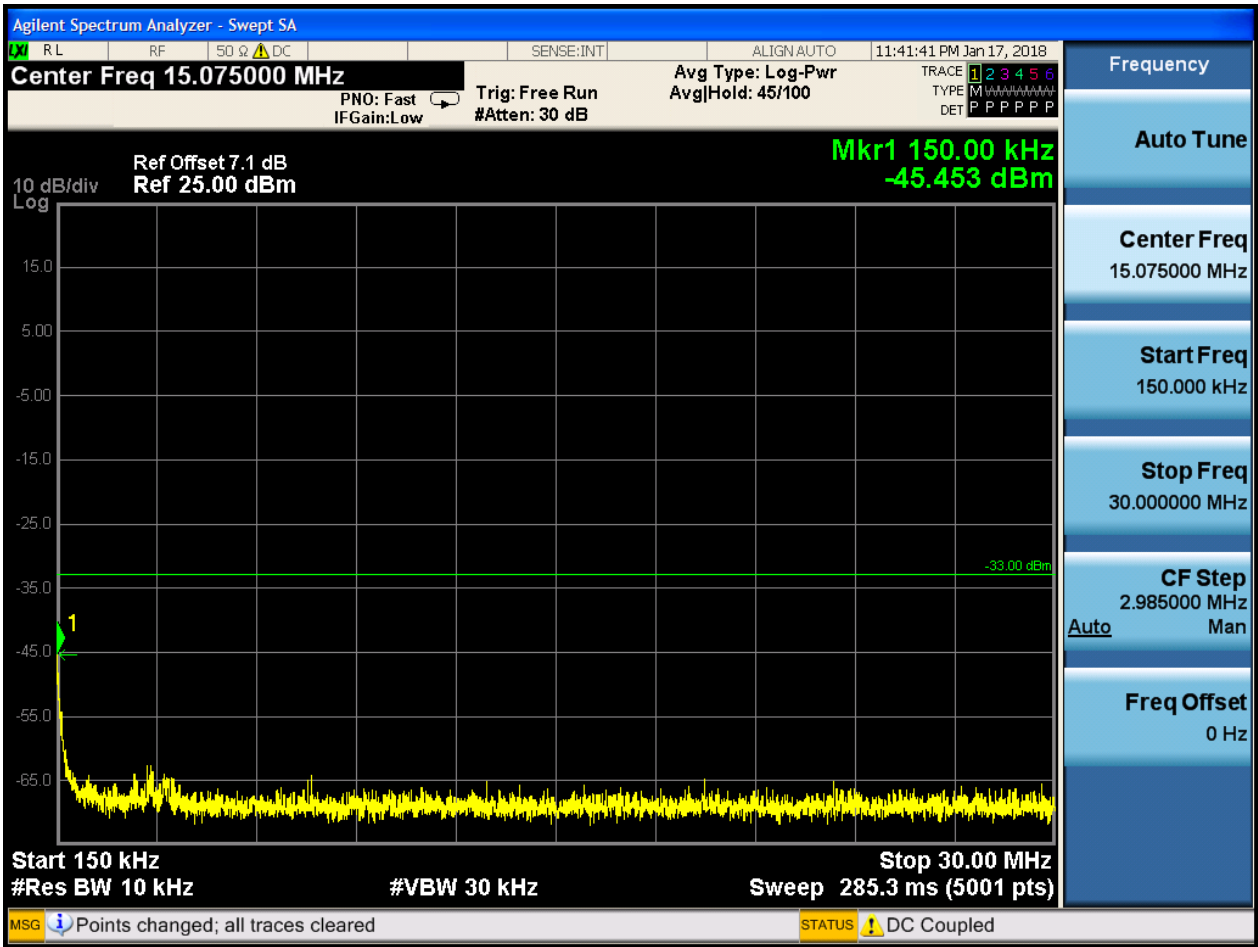


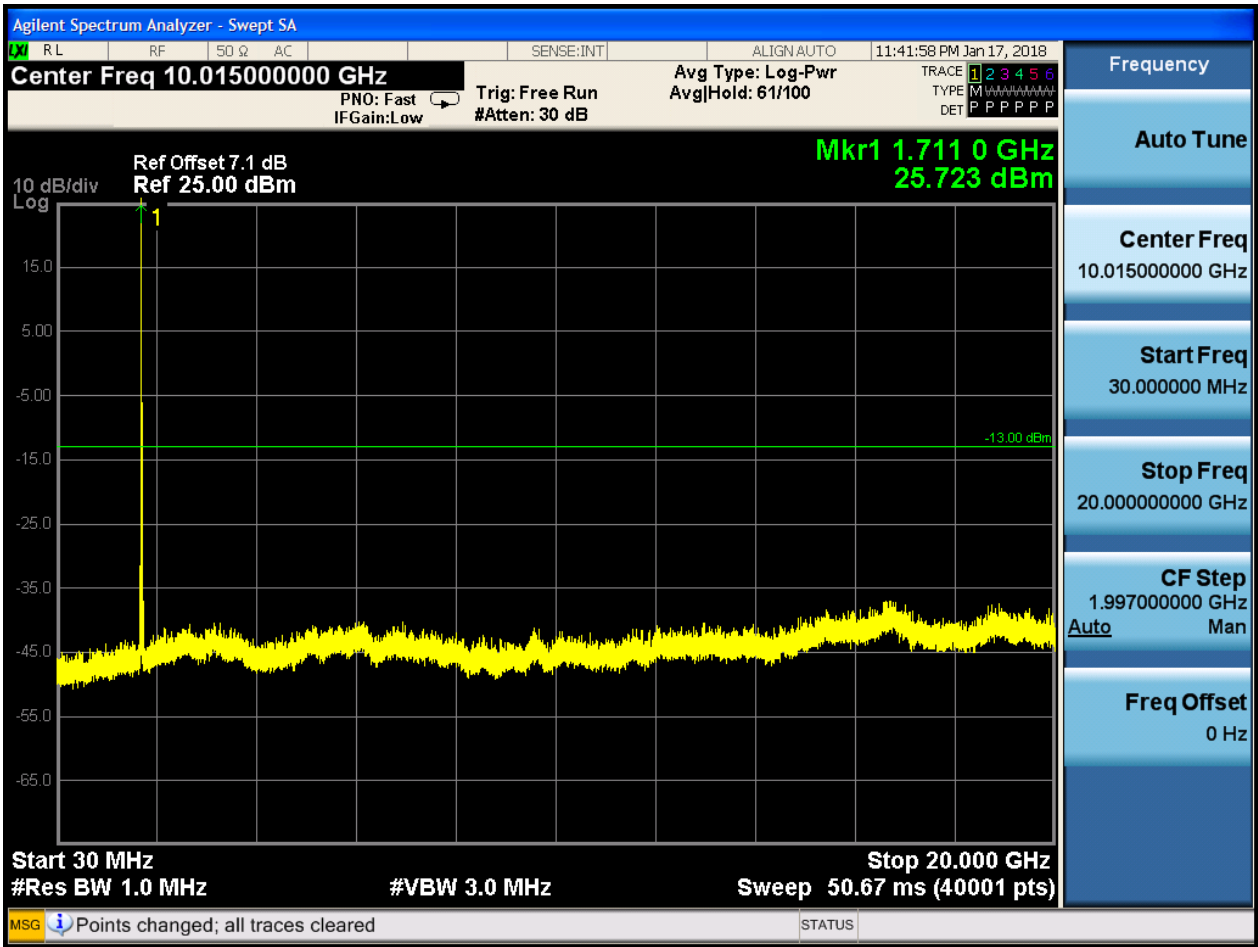
6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



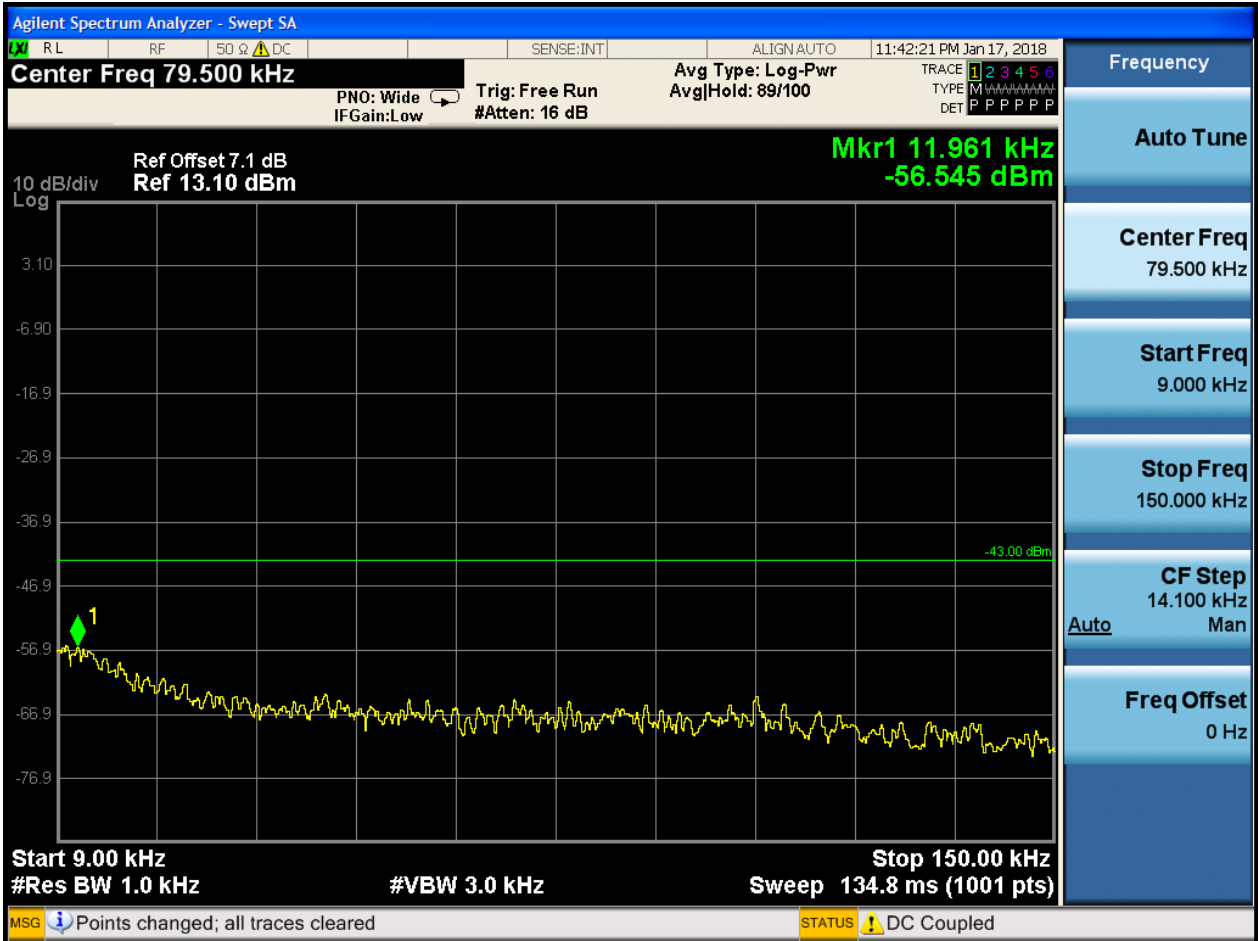


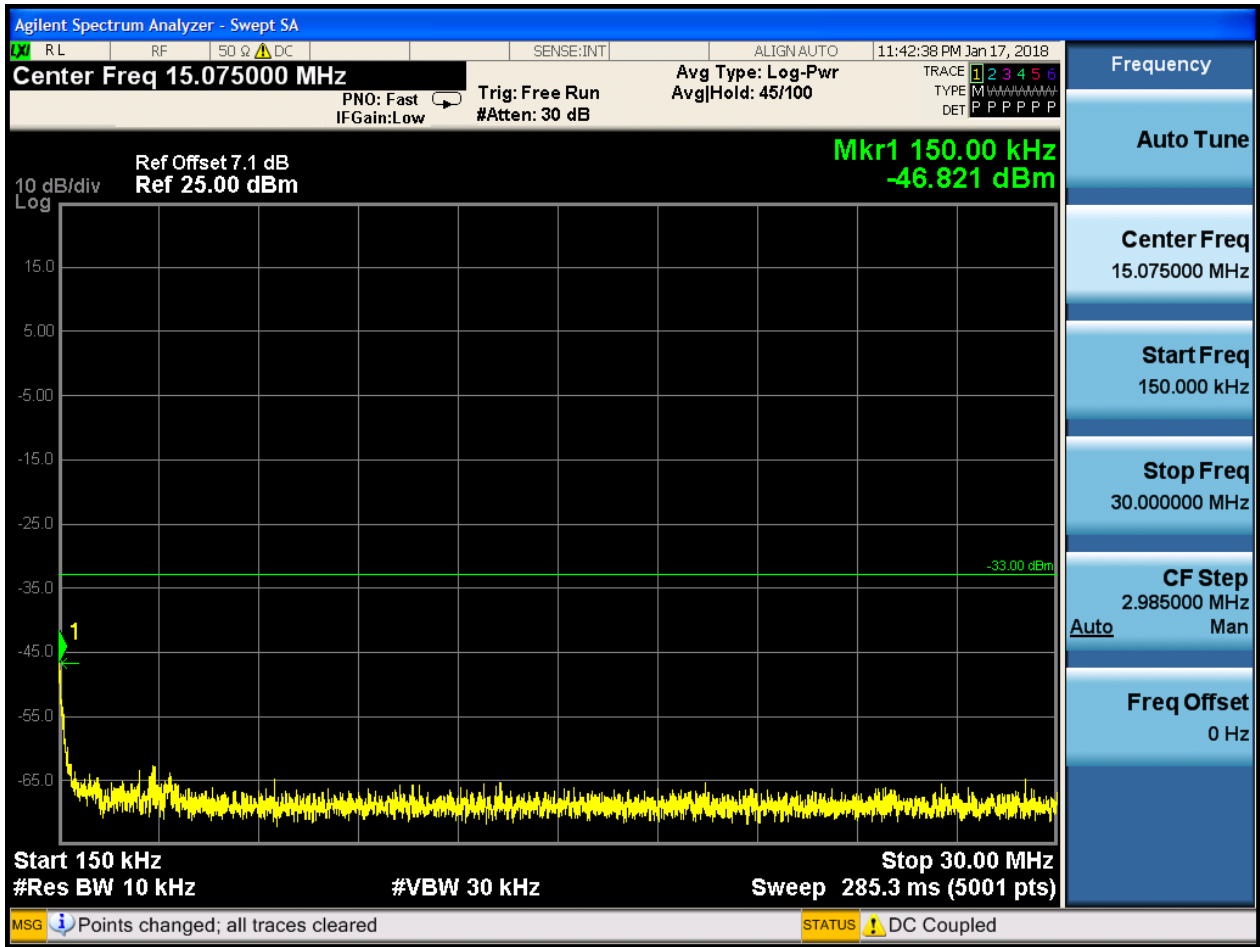


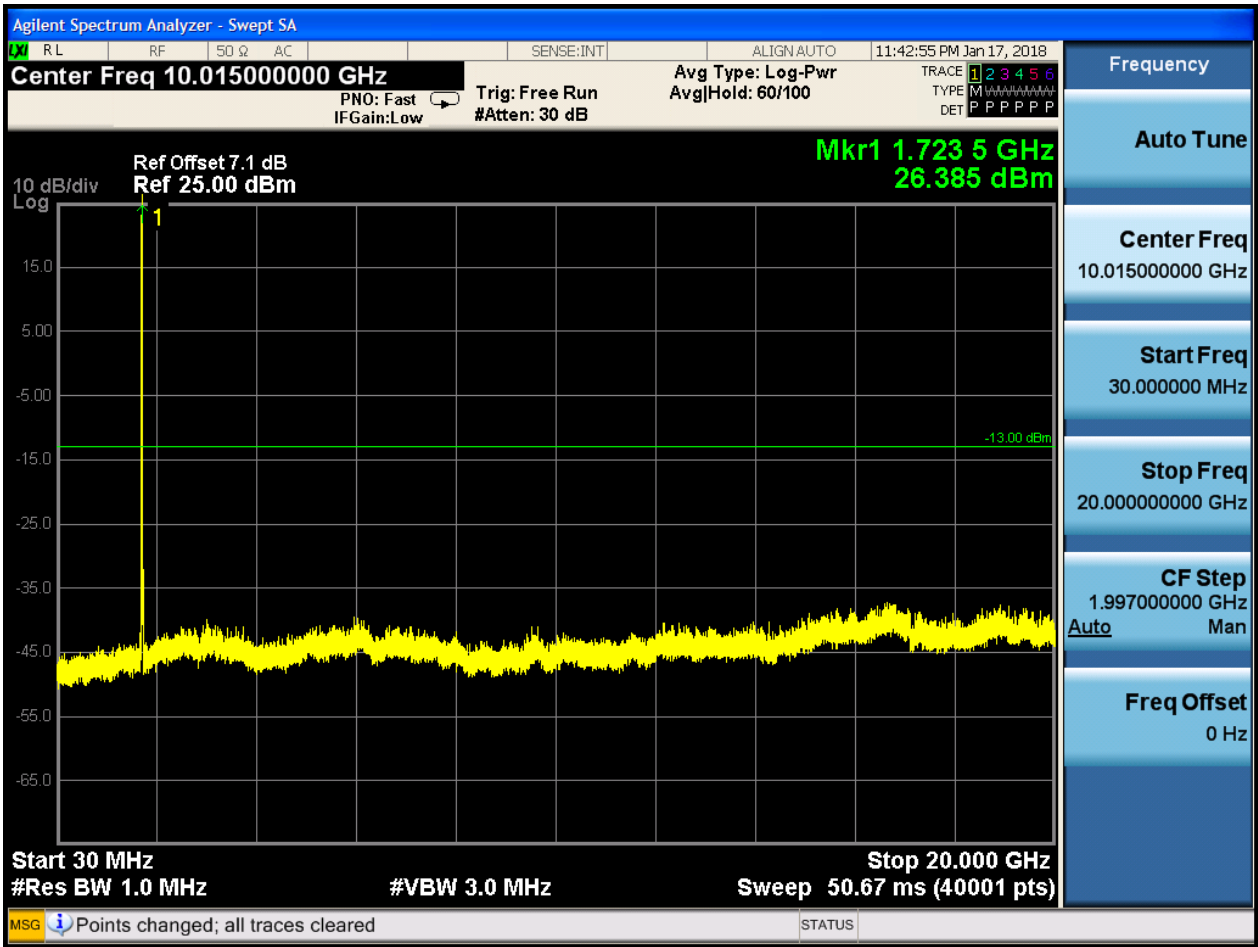


6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0



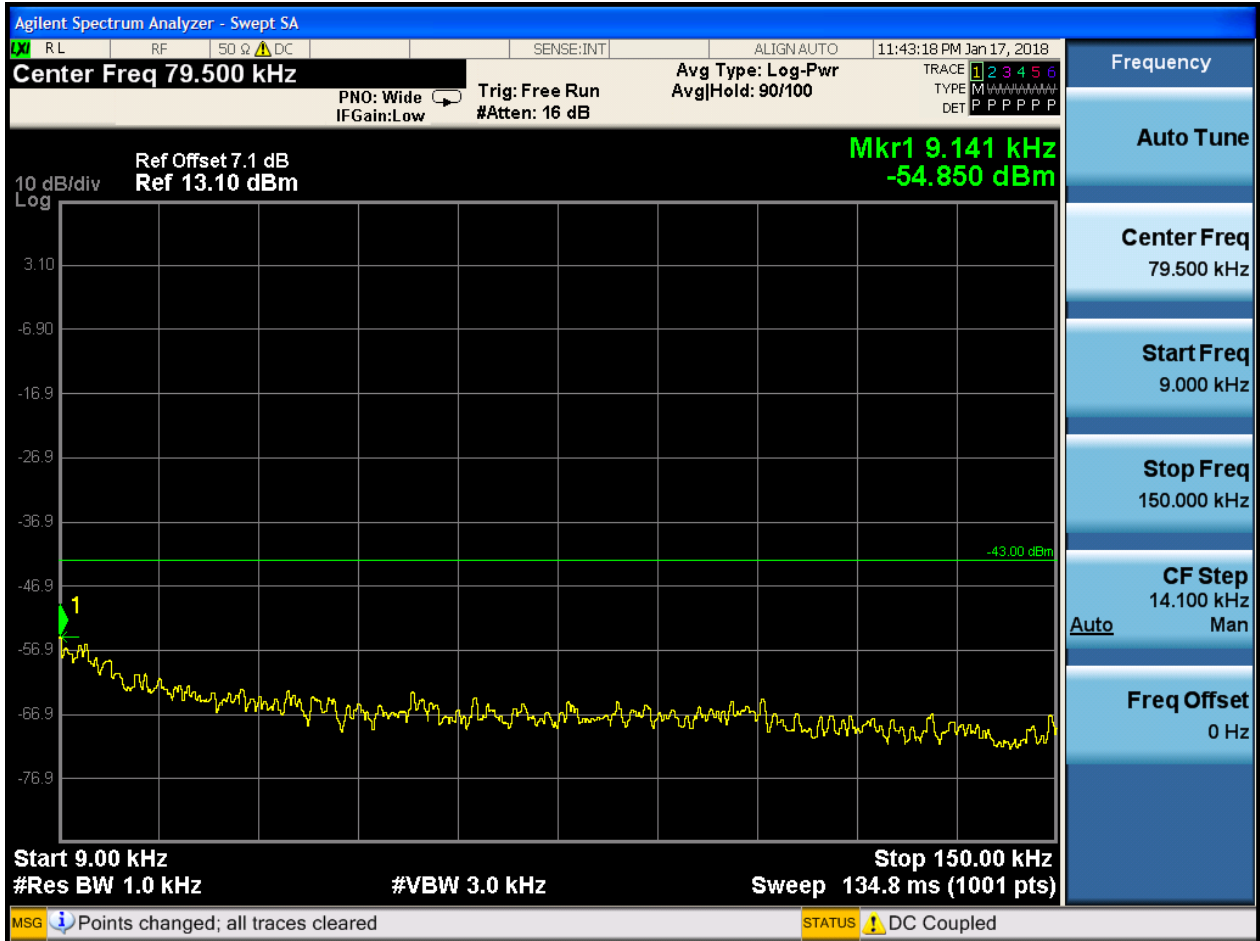


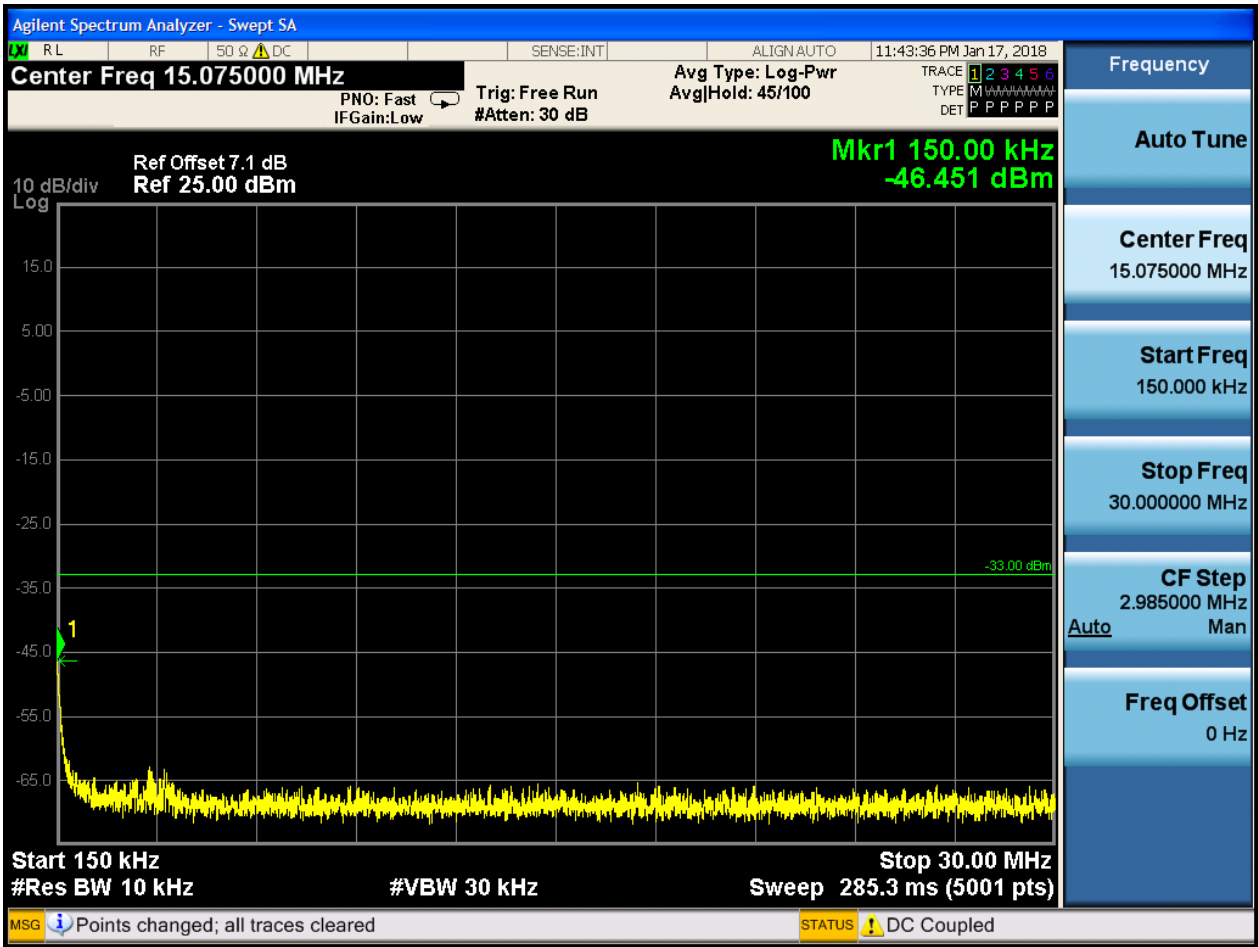


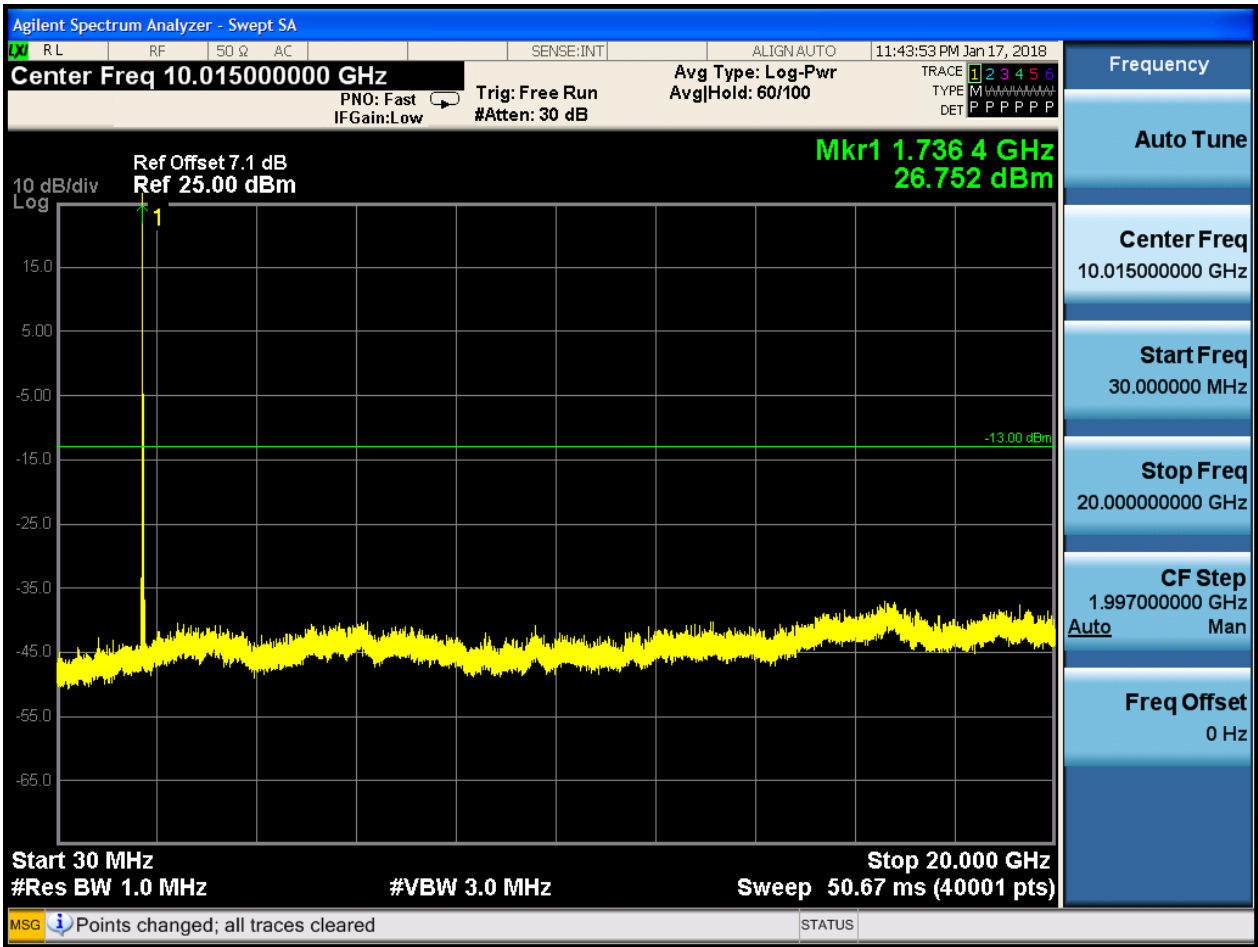


6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 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

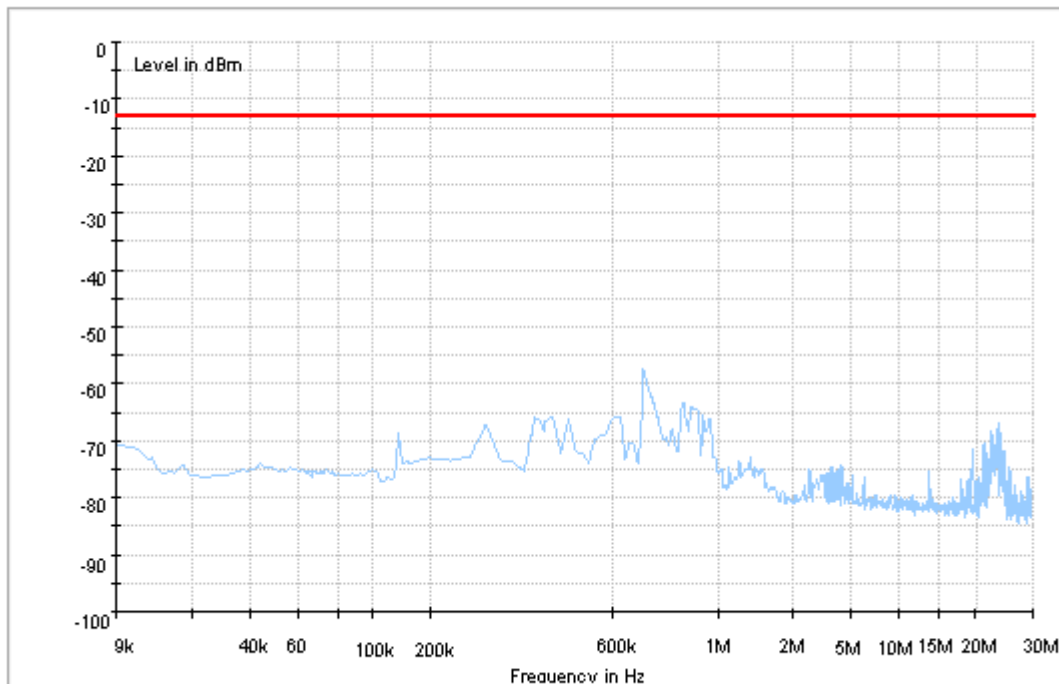
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

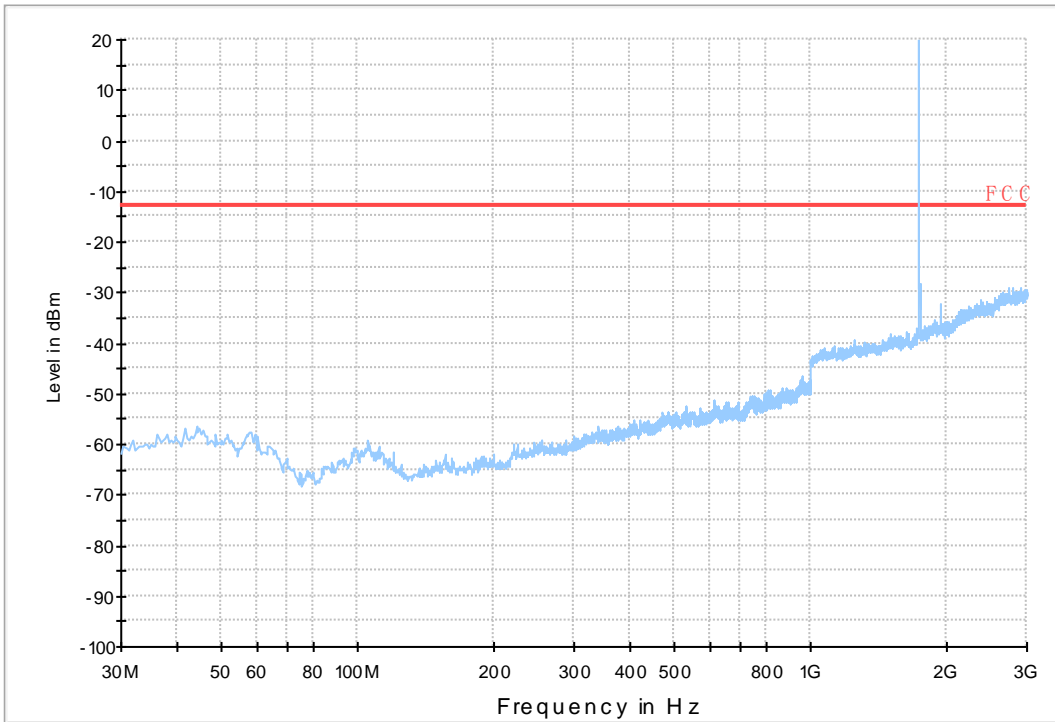
7.1 For LTE

7.1.1 Test Band = BAND4_ANT1

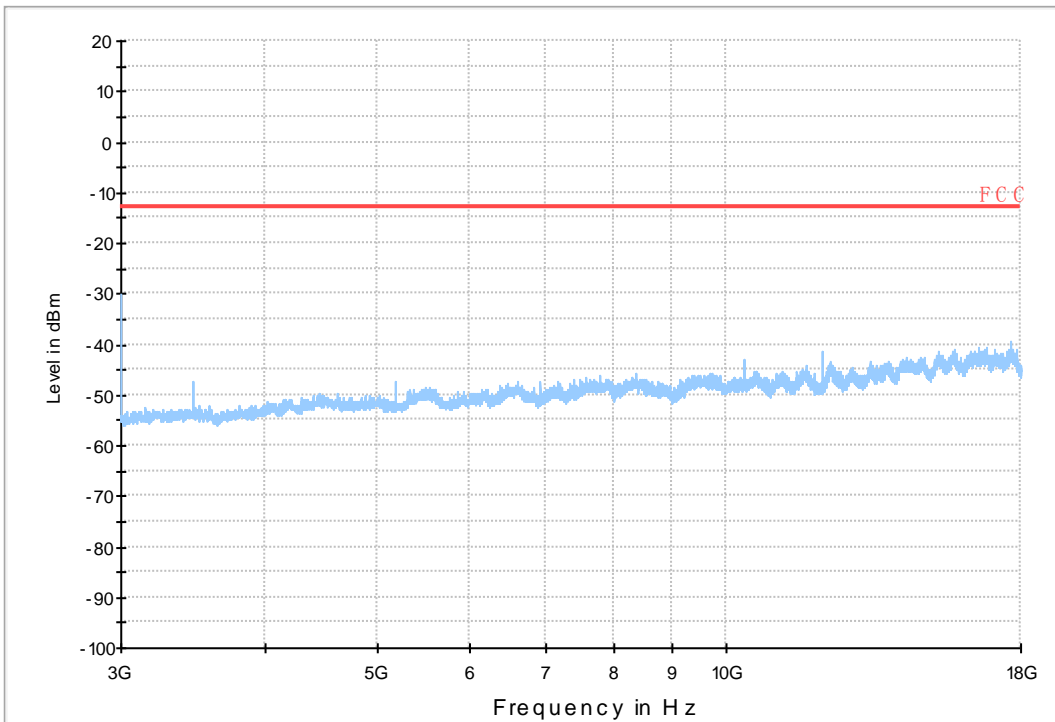
7.1.1.1 Test Bandwidth = 1.4



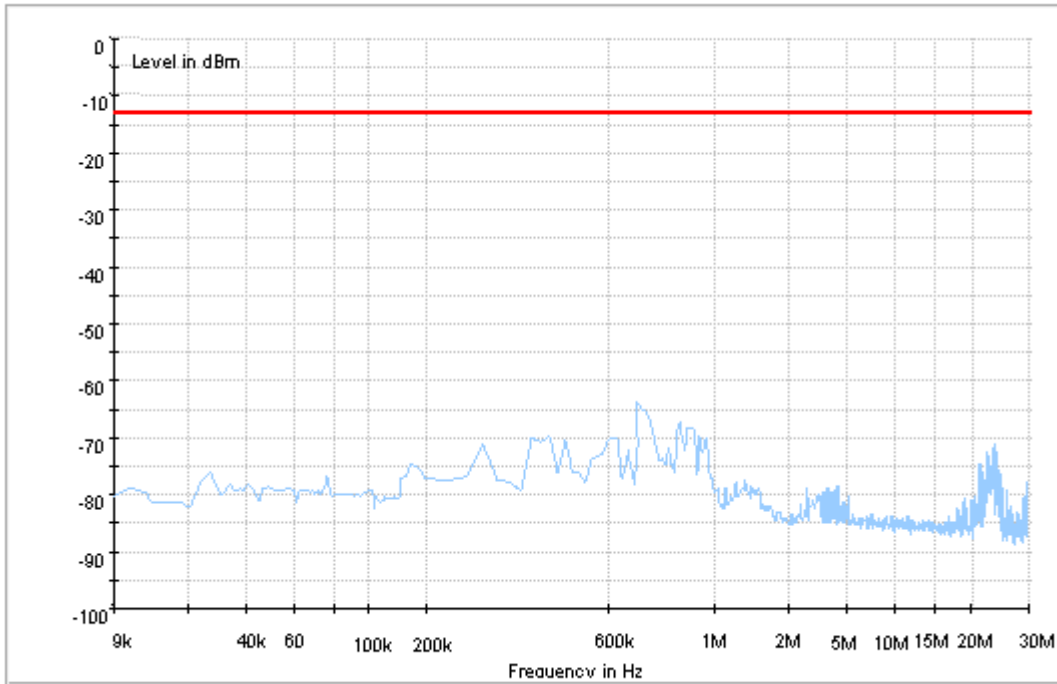
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



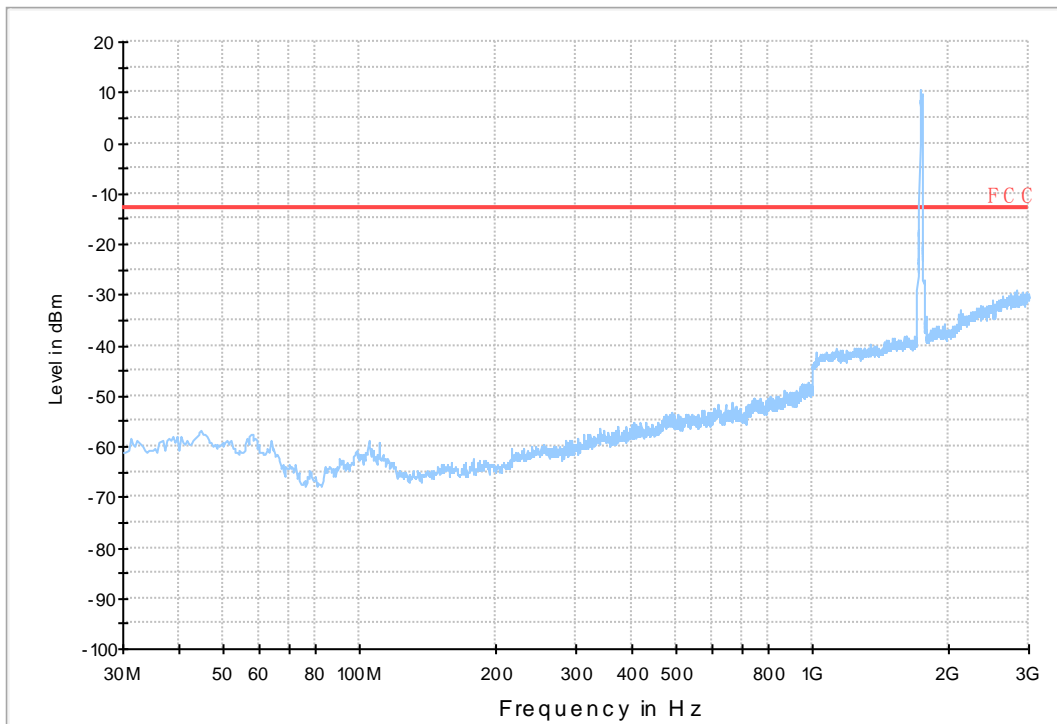
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



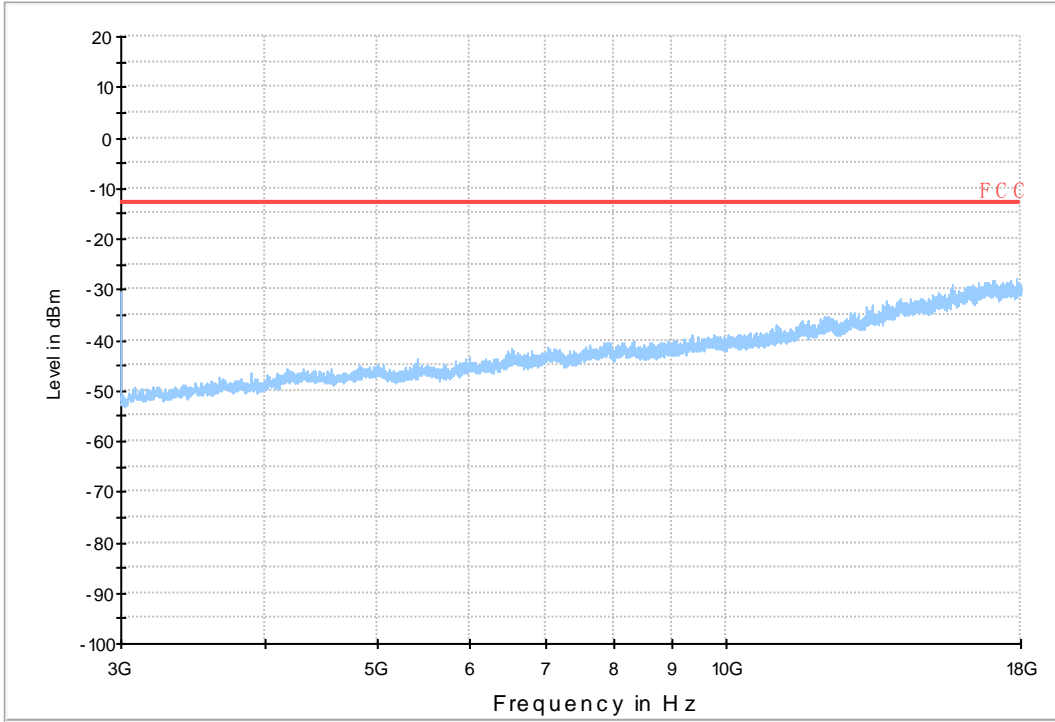
7.1.1.1 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

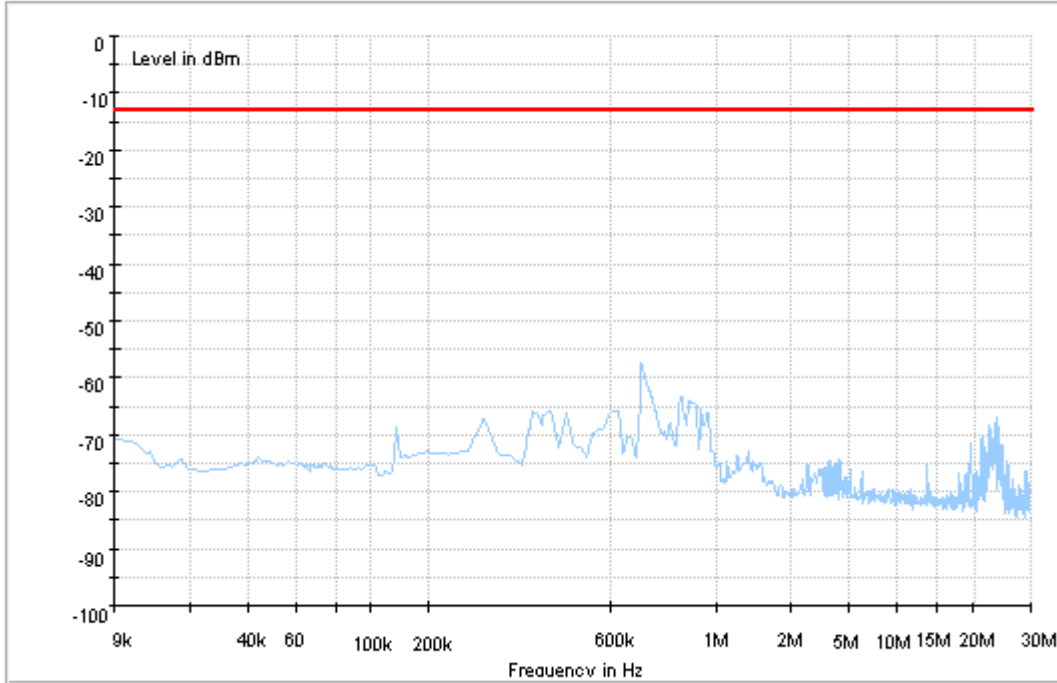


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

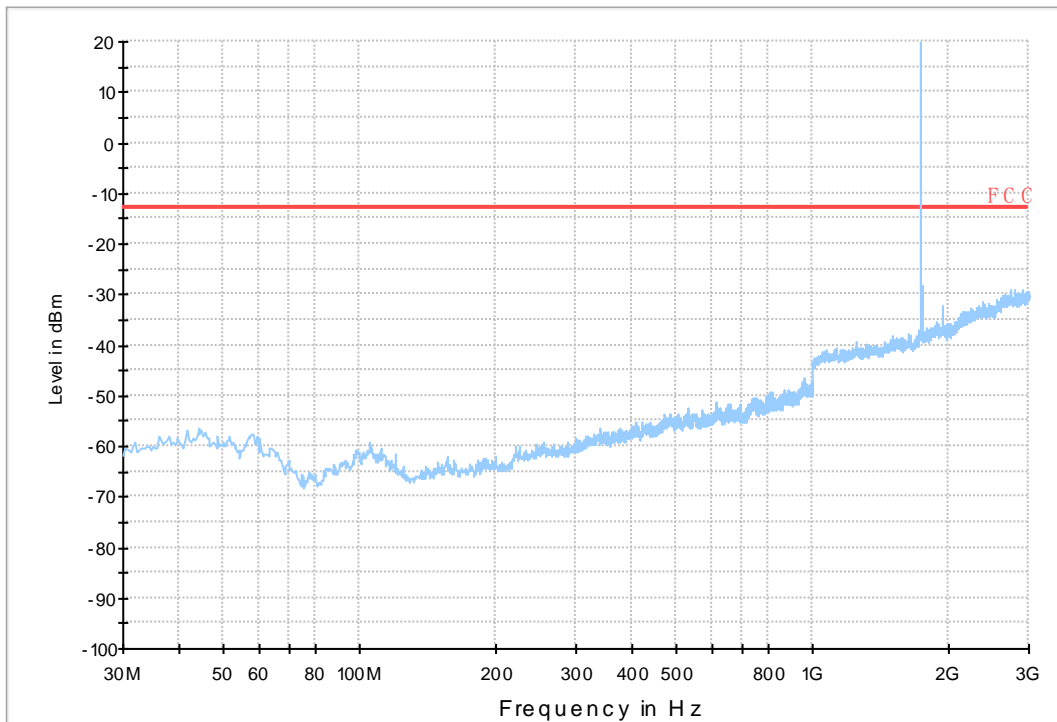


7.1.2 Test Band = BAND4_ANT2

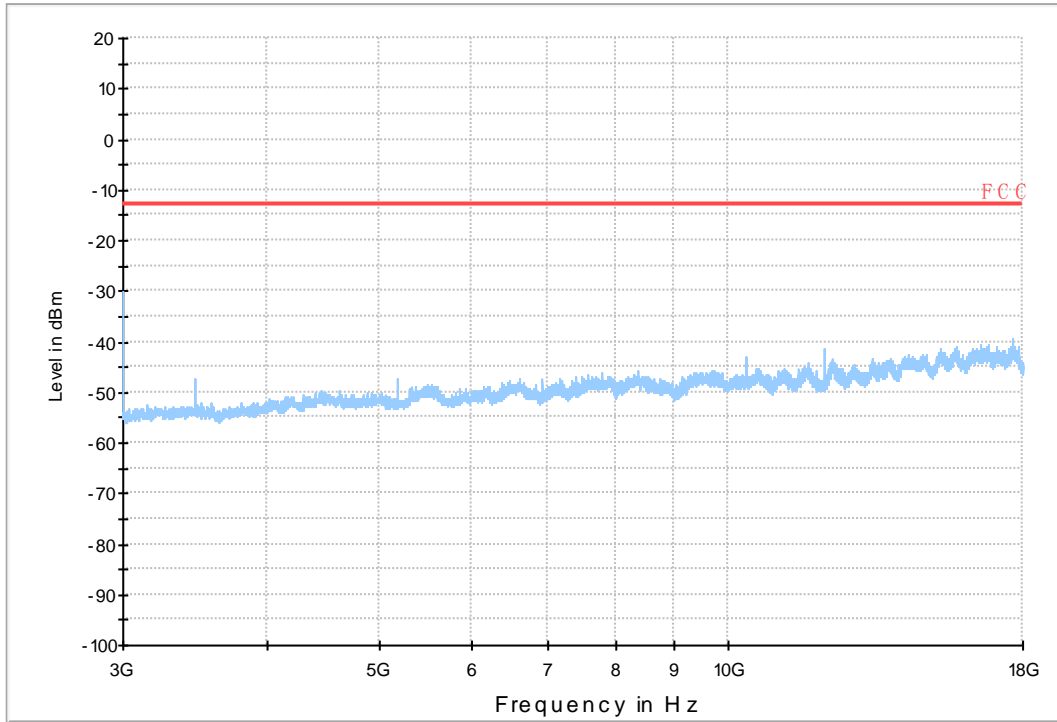
7.1.2.1 Test Bandwidth = 1.4



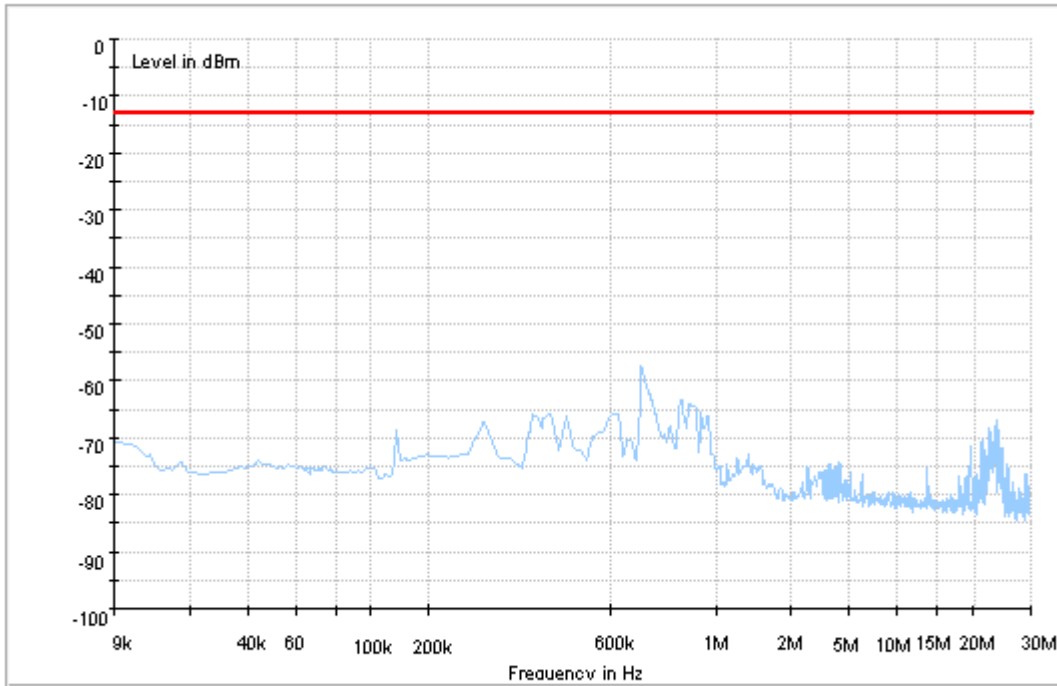
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



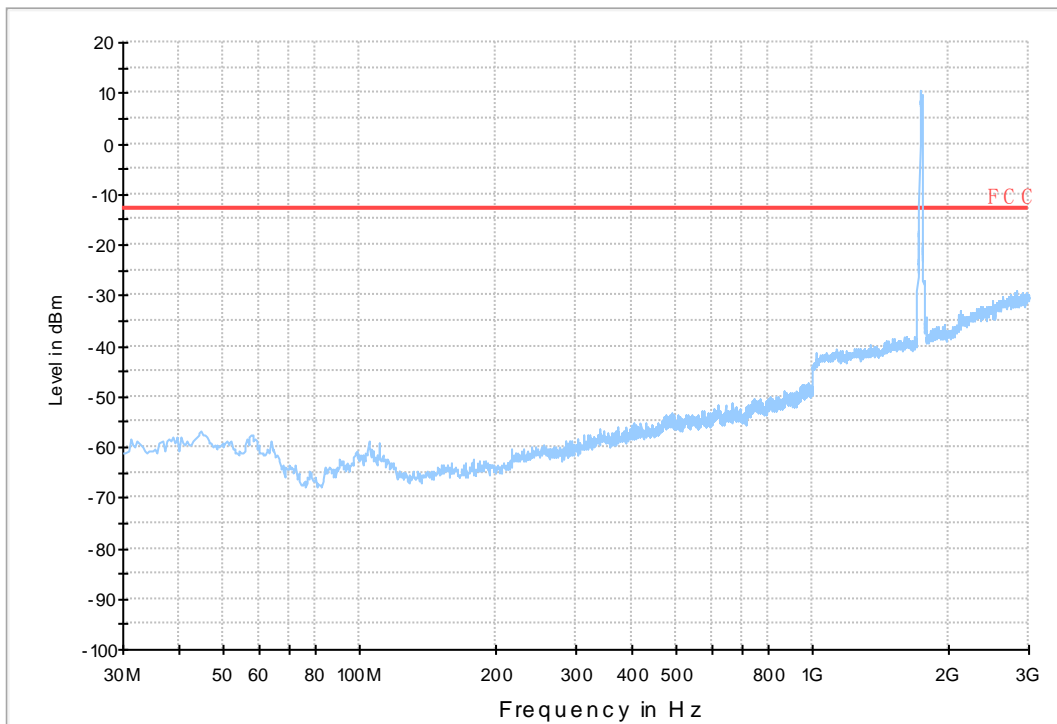
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



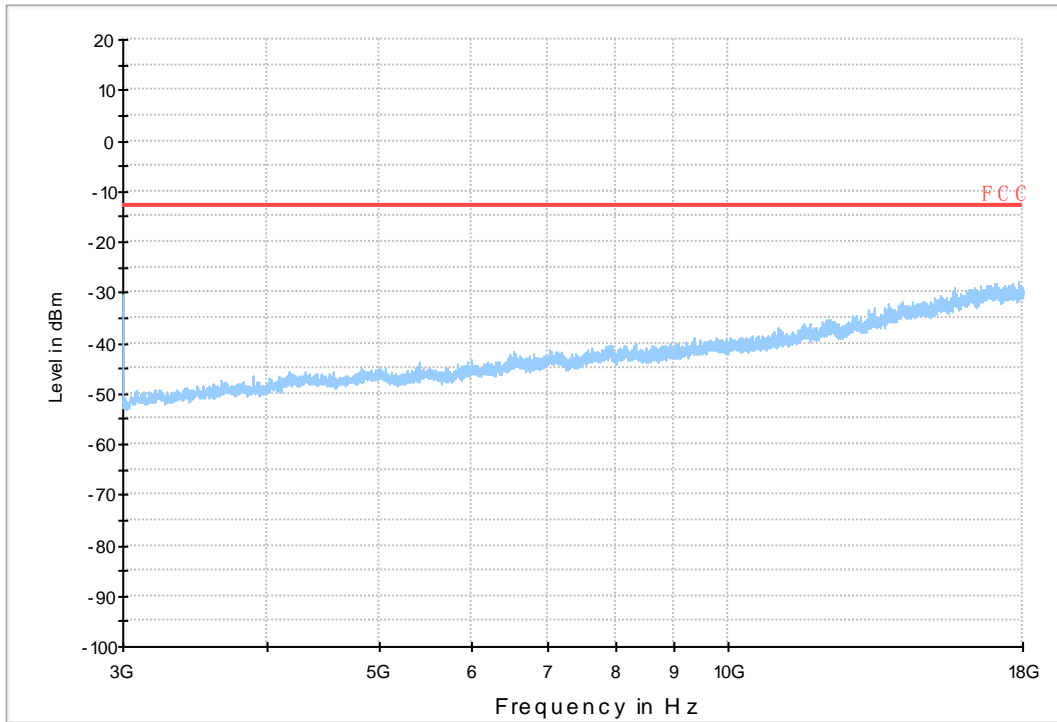
7.1.1.3 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_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
BAND4	LTE/TM1	1.4	LCH	TN	VL	-10.23	-0.00598	PASS
					VN	10.39	0.00607	PASS
					VH	1.22	0.00071	PASS
			MCH	TN	VL	-0.49	-0.00028	PASS
					VN	-2.62	-0.00151	PASS
					VH	-2.37	-0.00137	PASS
			HCH	TN	VL	1.34	0.00076	PASS
					VN	-0.63	-0.00036	PASS
					VH	-1.80	-0.00103	PASS
		3	LCH	TN	VL	4.11	0.0024	PASS
					VN	3.45	0.00202	PASS
					VH	1.43	0.00084	PASS
			MCH	TN	VL	0.77	0.00044	PASS
					VN	-2.45	-0.00141	PASS
					VH	1.22	0.0007	PASS
			HCH	TN	VL	-3.92	-0.00224	PASS
					VN	-5.81	-0.00331	PASS
					VH	-3.60	-0.00205	PASS
		5	LCH	TN	VL	3.86	0.00225	PASS
					VN	-0.73	-0.00043	PASS
					VH	-0.44	-0.00026	PASS
			MCH	TN	VL	-6.64	-0.00383	PASS
					VN	-18.05	-0.01042	PASS
					VH	0.29	0.00017	PASS
			HCH	TN	VL	-3.76	-0.00215	PASS
					VN	-2.82	-0.00161	PASS
					VH	-3.96	-0.00226	PASS
		10	LCH	TN	VL	1.03	0.0006	PASS
					VN	0.97	0.00057	PASS
					VH	-2.56	-0.00149	PASS
MCH	TN			VL	-1.23	-0.00071	PASS	
				VN	0.89	0.00051	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
		15	HCH	TN	VH	0.89	0.00051	PASS		
					VL	-0.99	-0.00057	PASS		
					VN	-1.09	-0.00062	PASS		
					VH	2.10	0.0012	PASS		
			LCH	TN	VL	2.70	0.00157	PASS		
					VN	-1.63	-0.00095	PASS		
					VH	-0.54	-0.00031	PASS		
				MCH	TN	VL	-0.59	-0.00034	PASS	
						VN	5.51	0.00318	PASS	
						VH	4.19	0.00242	PASS	
			HCH	TN	VL	4.59	0.00263	PASS		
					VN	3.13	0.00179	PASS		
		VH			1.03	0.00059	PASS			
		20		LCH	TN	VL	-13.45	-0.00782	PASS	
						VN	-13.25	-0.0077	PASS	
						VH	-10.66	-0.0062	PASS	
			MCH	TN	VL	-6.07	-0.0035	PASS		
					VN	0.74	0.00043	PASS		
					VH	-5.49	-0.00317	PASS		
		HCH	TN	VL	-2.33	-0.00134	PASS			
				VN	-3.93	-0.00225	PASS			
				VH	-1.07	-0.00061	PASS			
		LTE/TM2	1.4	LCH	TN	VL	3.20	0.00187	PASS	
						VN	-5.71	-0.00334	PASS	
						VH	19.44	0.01136	PASS	
				MCH	TN	VL	1.57	0.00091	PASS	
						VN	0.77	0.00044	PASS	
						VH	2.25	0.0013	PASS	
				HCH	TN	VL	-1.82	-0.00104	PASS	
						VN	4.73	0.0027	PASS	
						VH	-8.21	-0.00468	PASS	
				3	LCH	TN	VL	0.00	0	PASS
							VN	4.68	0.00273	PASS
							VH	-1.56	-0.00091	PASS
			MCH		TN	VL	-5.55	-0.0032	PASS	
						VN	-6.08	-0.00351	PASS	
						VH	-1.04	-0.0006	PASS	
			HCH	TN	VL	-2.90	-0.00165	PASS		
					VN	-1.12	-0.00064	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					VH	-6.44	-0.00367	PASS			
					5	LCH	TN	VL	6.25	0.00365	PASS
								VN	0.86	0.0005	PASS
		VH	1.99	0.00116				PASS			
		MCH	TN	VL		-1.24	-0.00072	PASS			
				VN		-6.11	-0.00353	PASS			
				VH		-5.11	-0.00295	PASS			
		HCH	TN	VL	-2.56	-0.00146	PASS				
				VN	-4.58	-0.00261	PASS				
				VH	-2.62	-0.0015	PASS				
		10	LCH	TN	VL	0.86	0.0005	PASS			
					VN	3.20	0.00187	PASS			
					VH	0.37	0.00022	PASS			
			MCH	TN	VL	3.71	0.00214	PASS			
					VN	0.69	0.0004	PASS			
					VH	0.51	0.00029	PASS			
			HCH	TN	VL	1.03	0.00059	PASS			
					VN	-0.03	-0.00002	PASS			
					VH	1.54	0.00088	PASS			
		15	LCH	TN	VL	-0.60	-0.00035	PASS			
					VN	-2.09	-0.00122	PASS			
					VH	0.13	0.00008	PASS			
			MCH	TN	VL	3.86	0.00223	PASS			
					VN	0.41	0.00024	PASS			
					VH	0.99	0.00057	PASS			
			HCH	TN	VL	-1.65	-0.00094	PASS			
					VN	1.95	0.00112	PASS			
					VH	0.96	0.00055	PASS			
		20	LCH	TN	VL	-2.75	-0.0016	PASS			
					VN	-8.84	-0.00514	PASS			
					VH	7.60	0.00442	PASS			
			MCH	TN	VL	50.21	0.02898	PASS			
					VN	32.63	0.01883	PASS			
					VH	38.57	0.02226	PASS			
			HCH	TN	VL	6.45	0.0037	PASS			
					VN	-0.34	-0.00019	PASS			
					VH	-5.88	-0.00337	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
BAND4	LTE/TM1	1.4	LCH	VN	-30	9.91	-0.00598	PASS
					-20	36.46	0.00607	PASS
					-10	-17.08	0.00071	PASS
					0	-4.59	-0.00028	PASS
					10	-5.41	-0.00151	PASS
					20	-13.89	-0.00137	PASS
					30	-1.24	0.00076	PASS
					40	-10.64	-0.00036	PASS
					50	-13.95	-0.00103	PASS
			MCH	VN	-30	-0.34	0.0024	PASS
					-20	-0.33	0.00202	PASS
					-10	0.44	0.00084	PASS
					0	-0.26	0.00044	PASS
					10	-1.53	-0.00141	PASS
					20	-1.63	0.0007	PASS
					30	-0.66	-0.00224	PASS
					40	0.57	-0.00331	PASS
					50	-0.74	-0.00205	PASS
		HCH	VN	-30	-9.40	0.00225	PASS	
				-20	-11.77	-0.00043	PASS	
				-10	-5.81	-0.00026	PASS	
				0	-2.56	-0.00383	PASS	
				10	0.59	-0.01042	PASS	
				20	-0.37	0.00017	PASS	
				30	-8.18	-0.00215	PASS	
				40	-0.92	-0.00161	PASS	
				50	-0.63	-0.00226	PASS	
		3	LCH	VN	-30	0.80	0.0006	PASS
					-20	0.86	0.00057	PASS
					-10	-0.73	-0.00149	PASS
0	1.93				-0.00071	PASS		
10	1.93				0.00051	PASS		
20	1.26				0.00051	PASS		
30	0.01				-0.00057	PASS		
40	4.22				-0.00062	PASS		
50	-0.86				0.0012	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	6.45	0.00157	PASS
					-20	16.94	-0.00095	PASS
					-10	-1.59	-0.00031	PASS
					0	0.60	-0.00034	PASS
					10	0.83	0.00318	PASS
					20	10.19	0.00242	PASS
					30	0.50	0.00263	PASS
					40	3.59	0.00179	PASS
					50	1.30	0.00059	PASS
			HCH	VN	-30	-4.68	-0.00782	PASS
					-20	-6.22	-0.0077	PASS
					-10	-0.30	-0.0062	PASS
					0	-4.25	-0.0035	PASS
					10	-7.05	0.00043	PASS
					20	-4.06	-0.00317	PASS
					30	-5.01	-0.00134	PASS
					40	-2.80	-0.00225	PASS
					50	-6.38	-0.00061	PASS
		5	LCH	VN	-30	2.05	0.00187	PASS
					-20	0.03	-0.00334	PASS
					-10	1.27	0.01136	PASS
					0	1.69	0.00091	PASS
					10	0.40	0.00044	PASS
					20	-2.05	0.0013	PASS
					30	3.28	-0.00104	PASS
					40	-0.97	0.0027	PASS
					50	-1.89	-0.00468	PASS
			MCH	VN	-30	12.25	0	PASS
					-20	13.75	0.00273	PASS
					-10	34.66	-0.00091	PASS
					0	43.13	-0.0032	PASS
					10	82.35	-0.00351	PASS
					20	-0.06	-0.0006	PASS
					30	41.40	-0.00165	PASS
					40	2.12	-0.00064	PASS
					50	30.64	-0.00367	PASS
HCH	VN	-30	-5.97	0.00365	PASS			
		-20	-2.17	0.0005	PASS			
		-10	-6.97	0.00116	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict				
					0	-4.99	-0.00072	PASS				
					10	-3.65	-0.00353	PASS				
					20	-0.24	-0.00295	PASS				
					30	-5.04	-0.00146	PASS				
					40	-4.98	-0.00261	PASS				
					50	-4.02	-0.0015	PASS				
		10	LCH	VN	-30	1.34	0.0005	PASS				
					-20	1.89	0.00187	PASS				
					-10	0.86	0.00022	PASS				
					0	-0.94	0.00214	PASS				
					10	0.14	0.0004	PASS				
					20	0.54	0.00029	PASS				
					30	-0.01	0.00059	PASS				
					40	-0.86	-0.00002	PASS				
					50	-0.06	0.00088	PASS				
					MCH	VN	-30	-0.72	-0.00035	PASS		
							-20	-9.43	-0.00122	PASS		
							-10	-0.19	0.00008	PASS		
							0	-1.32	0.00223	PASS		
							10	-3.56	0.00024	PASS		
							20	-8.18	0.00057	PASS		
							30	-2.07	-0.00094	PASS		
							40	-7.54	0.00112	PASS		
							50	-6.81	0.00055	PASS		
							HCH	VN	-30	-0.96	-0.0016	PASS
									-20	-0.54	-0.00514	PASS
									-10	1.80	0.00442	PASS
					0	-0.17			0.02898	PASS		
					10	-0.04			0.01883	PASS		
					20	-1.62			0.02226	PASS		
		30	0.07	0.0037	PASS							
		40	-0.46	-0.00019	PASS							
		15	LCH	VN	50	1.62	-0.00337	PASS				
					-30	-1.39	-0.00081	PASS				
					-20	1.96	-0.00598	PASS				
					-10	3.40	0.00607	PASS				
					0	0.09	0.00071	PASS				
					10	-0.62	-0.00028	PASS				
							20	4.41	-0.00151	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-1.30	-0.00137	PASS		
					40	3.66	0.00076	PASS		
					50	2.86	-0.00036	PASS		
			MCH	VN	-30	2.80	-0.00103	PASS		
					-20	7.71	0.0024	PASS		
					-10	14.91	0.00202	PASS		
					0	6.88	0.00084	PASS		
					10	25.46	0.00044	PASS		
					20	7.67	-0.00141	PASS		
					30	4.71	0.0007	PASS		
					40	-0.56	-0.00224	PASS		
					50	10.80	-0.00331	PASS		
			HCH	VN	-30	0.87	-0.00205	PASS		
					-20	7.62	0.00225	PASS		
					-10	2.86	-0.00043	PASS		
					0	3.75	-0.00026	PASS		
					10	2.37	-0.00383	PASS		
					20	2.56	-0.01042	PASS		
					30	-2.59	0.00017	PASS		
			40	0.20	-0.00215	PASS				
			50	-1.22	-0.00161	PASS				
			20		LCH	VN	-30	-5.69	-0.00226	PASS
							-20	-8.60	0.0006	PASS
							-10	-5.82	0.00057	PASS
		0					-4.51	-0.00149	PASS	
		10					-4.25	-0.00071	PASS	
		20					-6.58	0.00051	PASS	
		30					-6.11	0.00051	PASS	
		40					-4.18	-0.00057	PASS	
		50			-4.23	-0.00062	PASS			
		MCH			VN	-30	17.18	0.0012	PASS	
						-20	7.32	0.00157	PASS	
						-10	21.14	-0.00095	PASS	
			0	5.29		-0.00031	PASS			
		10	33.45	-0.00034	PASS					
		20	13.20	0.00318	PASS					
30	12.99	0.00242	PASS							
40	9.56	0.00263	PASS							
50	31.96	0.00179	PASS							

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	-30	-0.37	0.00059	PASS
					-20	-1.37	-0.00782	PASS
					-10	3.22	-0.0077	PASS
					0	1.34	-0.0062	PASS
					10	0.60	-0.0035	PASS
					20	5.94	0.00043	PASS
					30	0.04	-0.00317	PASS
					40	0.19	-0.00134	PASS
					50	-2.07	-0.00225	PASS
			LCH	VN	-30	25.43	-0.00061	PASS
					-20	27.65	0.00187	PASS
					-10	29.03	-0.00334	PASS
					0	-0.03	0.01136	PASS
					10	6.79	0.00091	PASS
					20	29.30	0.00044	PASS
					30	28.75	0.0013	PASS
					40	17.38	-0.00104	PASS
					50	5.61	0.0027	PASS
	MCH	VN	-30	-0.69	-0.00468	PASS		
			-20	0.36	0	PASS		
			-10	0.97	0.00273	PASS		
			0	-0.47	-0.00091	PASS		
			10	0.86	-0.0032	PASS		
			20	-0.84	-0.00351	PASS		
			30	-0.50	-0.0006	PASS		
			40	0.72	-0.00165	PASS		
			50	0.24	-0.00064	PASS		
	HCH	VN	-30	-0.33	-0.00367	PASS		
			-20	-0.16	0.00365	PASS		
			-10	-2.23	0.0005	PASS		
			0	0.43	0.00116	PASS		
			10	-1.79	-0.00072	PASS		
			20	-2.79	-0.00353	PASS		
			30	-4.12	-0.00295	PASS		
			40	0.66	-0.00146	PASS		
			50	-3.88	-0.00261	PASS		
	3	LCH	VN	-30	2.92	-0.0015	PASS	
				-20	3.22	0.0005	PASS	
				-10	5.28	0.00187	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	4.28	0.00022	PASS
					10	0.83	0.00214	PASS
					20	2.53	0.0004	PASS
					30	3.33	0.00029	PASS
					40	0.57	0.00059	PASS
					50	0.46	-0.00002	PASS
			MCH	VN	-30	-0.11	0.00088	PASS
					-20	0.26	-0.00035	PASS
					-10	-0.54	-0.00122	PASS
					0	0.20	0.00008	PASS
					10	-0.70	0.00223	PASS
					20	-0.10	0.00024	PASS
					30	0.19	0.00057	PASS
					40	-0.57	-0.00094	PASS
			HCH	VN	50	-0.49	0.00112	PASS
					-30	-2.92	0.00055	PASS
					-20	-7.25	-0.0016	PASS
					-10	-0.69	-0.00514	PASS
					0	-2.92	0.00442	PASS
					10	-1.27	0.02898	PASS
					20	-1.76	0.01883	PASS
					30	-1.85	0.02226	PASS
			LCH	VN	40	-8.10	0.0037	PASS
					50	-0.44	-0.00019	PASS
					-30	0.51	-0.00337	PASS
					-20	-0.51	-0.0003	PASS
					-10	-0.92	-0.00598	PASS
					0	1.37	0.00607	PASS
					10	5.02	0.00071	PASS
					20	2.90	-0.00028	PASS
			MCH	VN	30	4.38	-0.00151	PASS
					40	1.23	-0.00137	PASS
					50	-0.20	0.00076	PASS
					-30	0.00	-0.00036	PASS
					-20	-0.84	-0.00103	PASS
					-10	-0.54	0.0024	PASS
					0	-0.60	0.00202	PASS
					10	-0.30	0.00084	PASS
					20	-6.62	0.00044	PASS