

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = BAND2

6.1.1.1 Test Mode = LTE/TM1

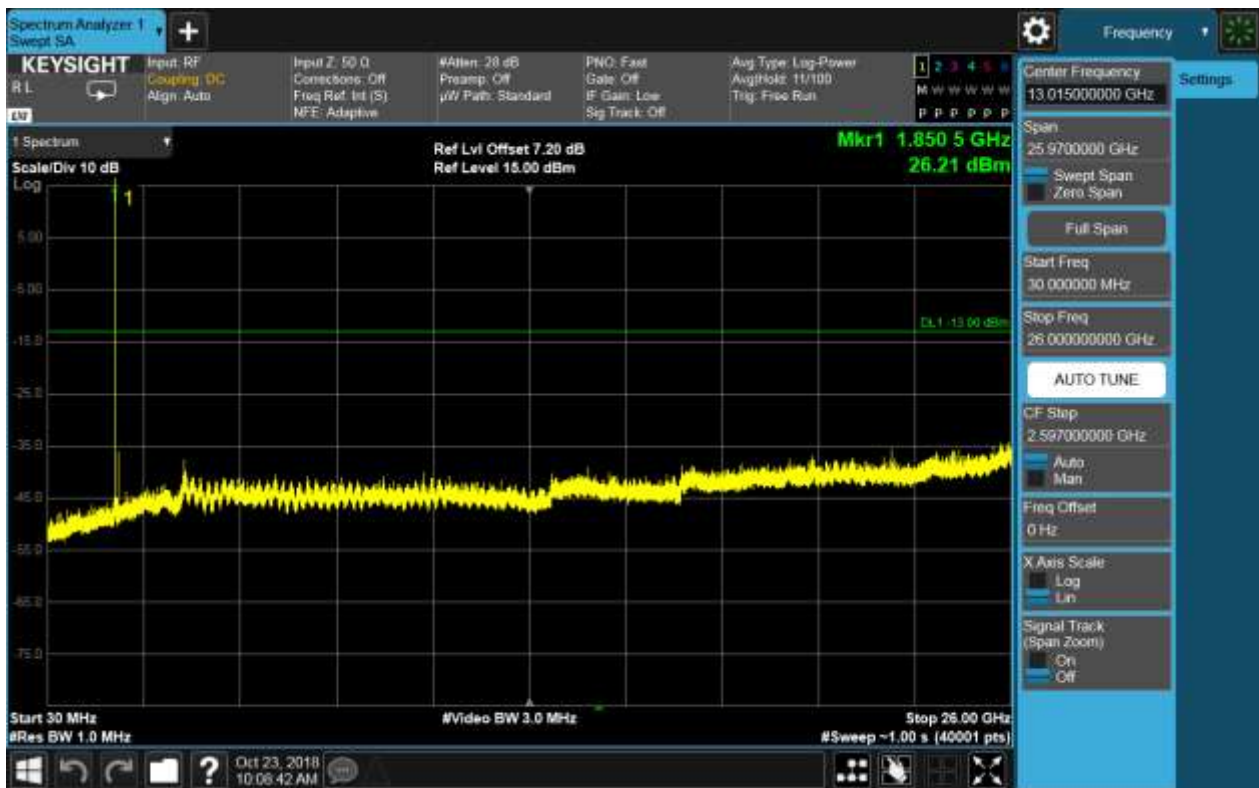
6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





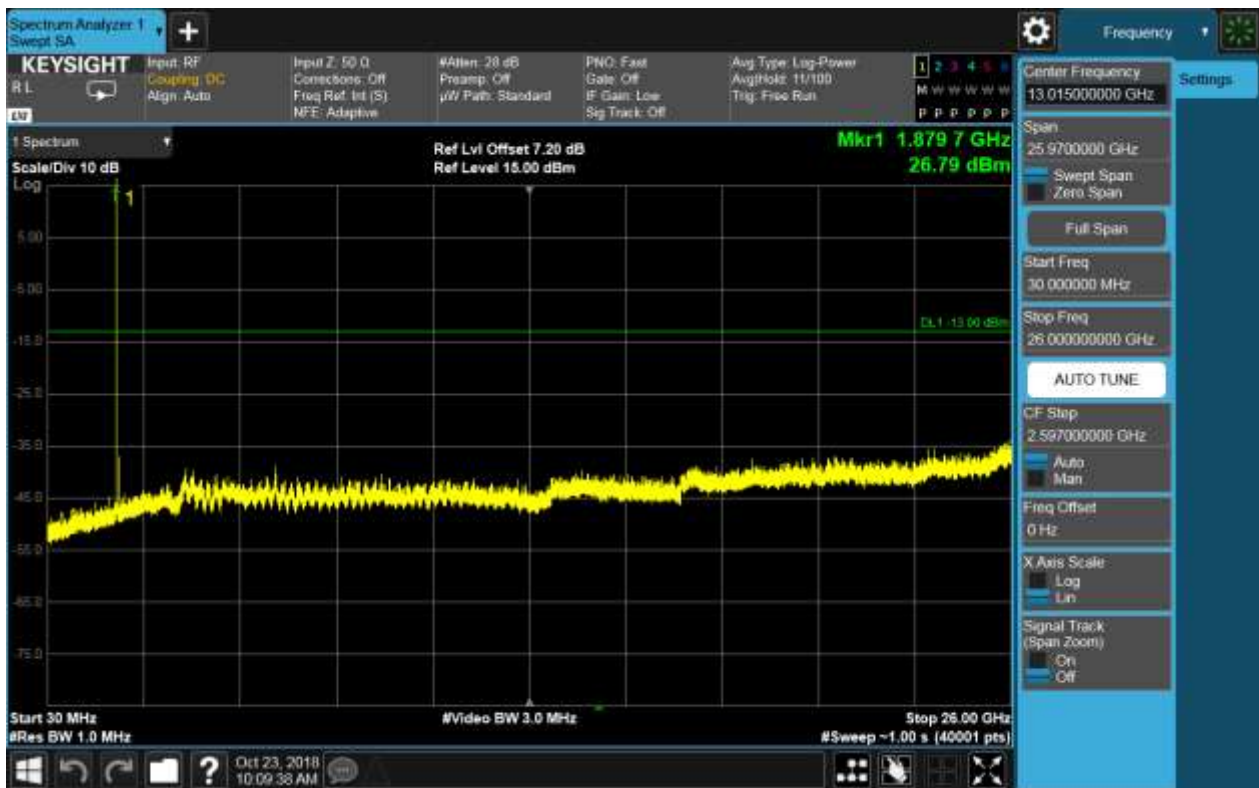


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





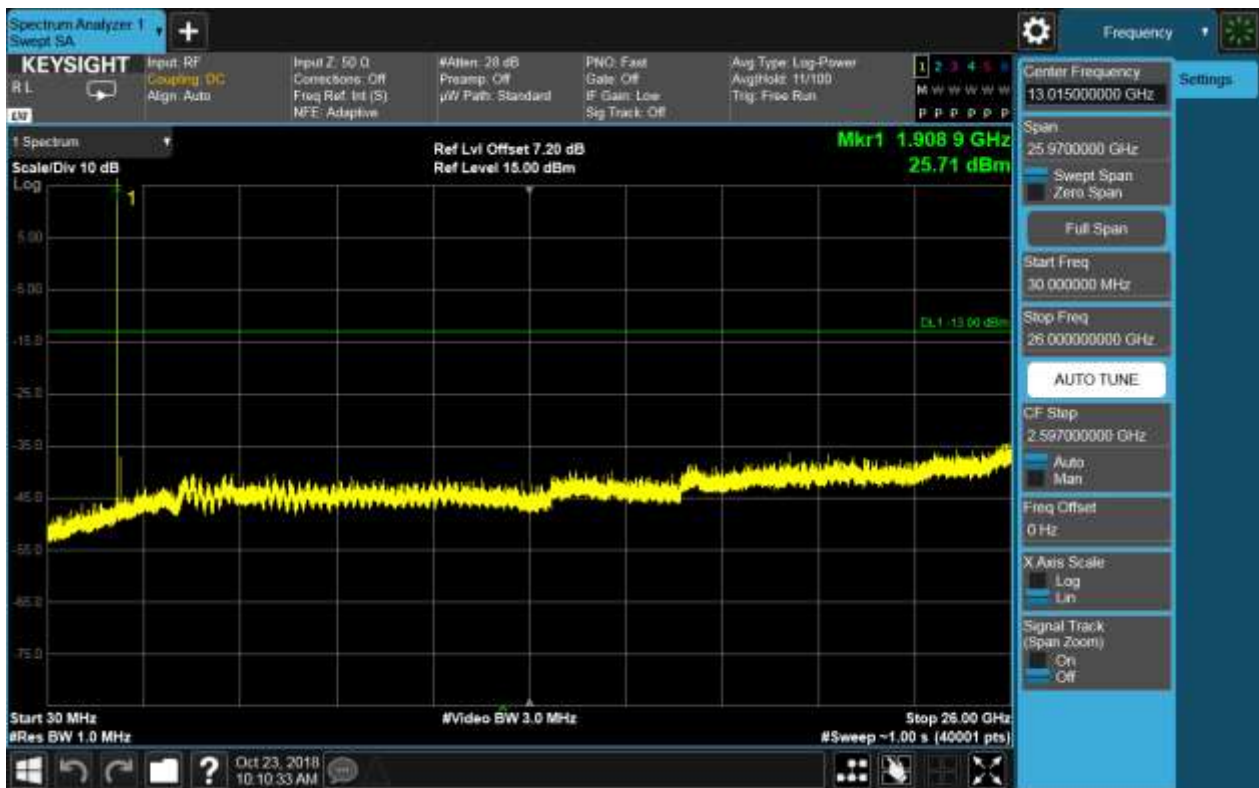


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0





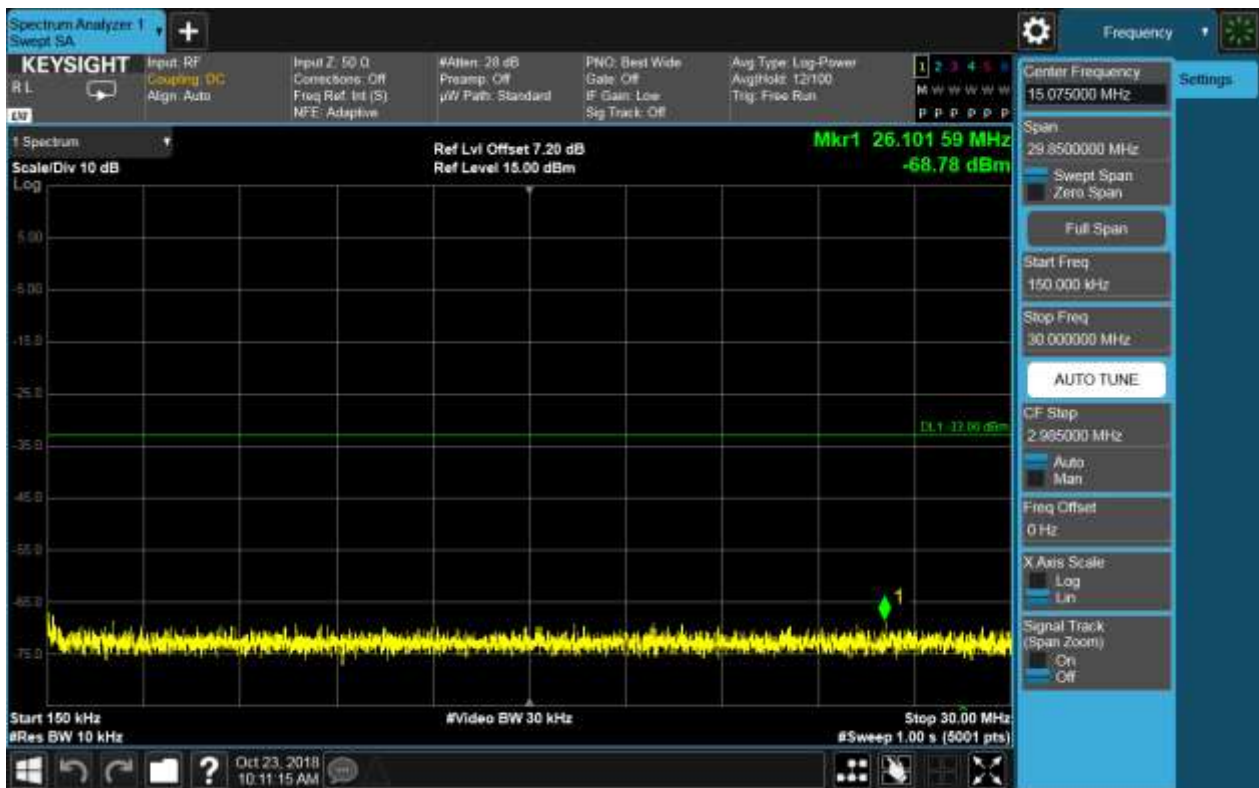


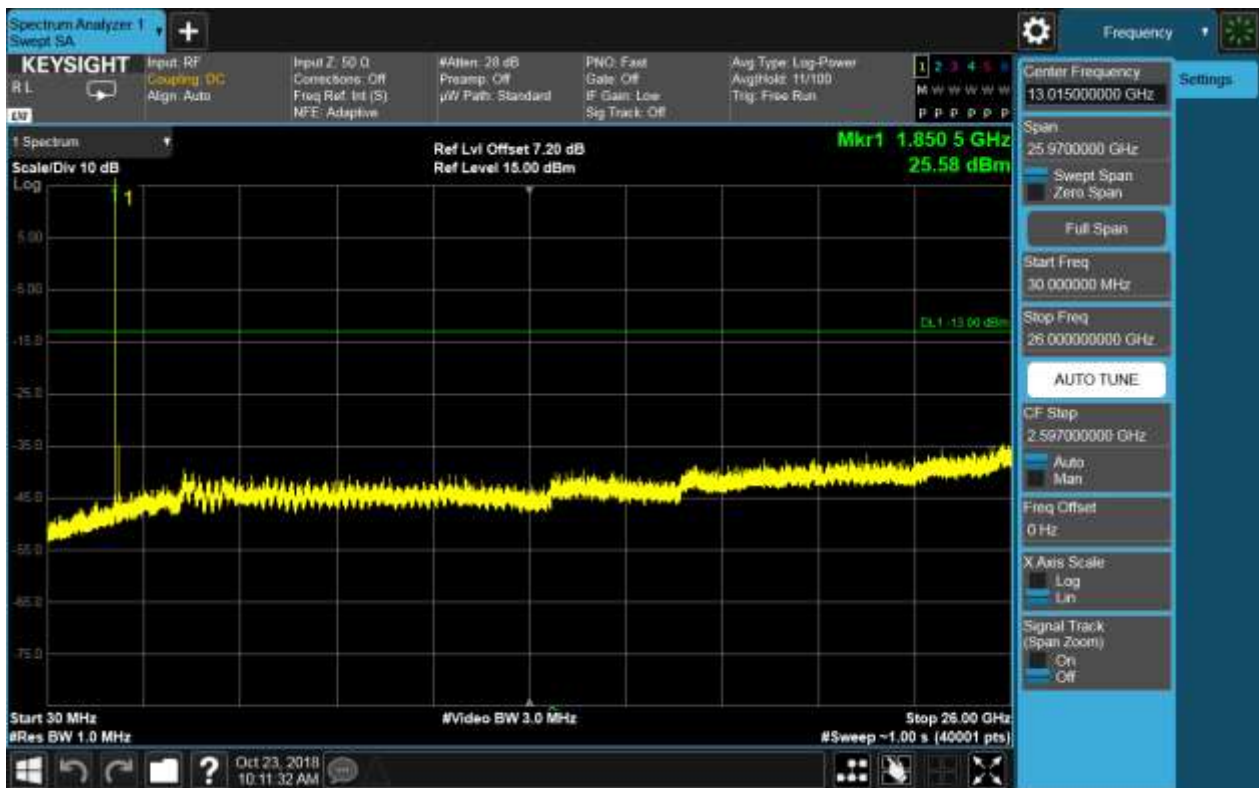
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



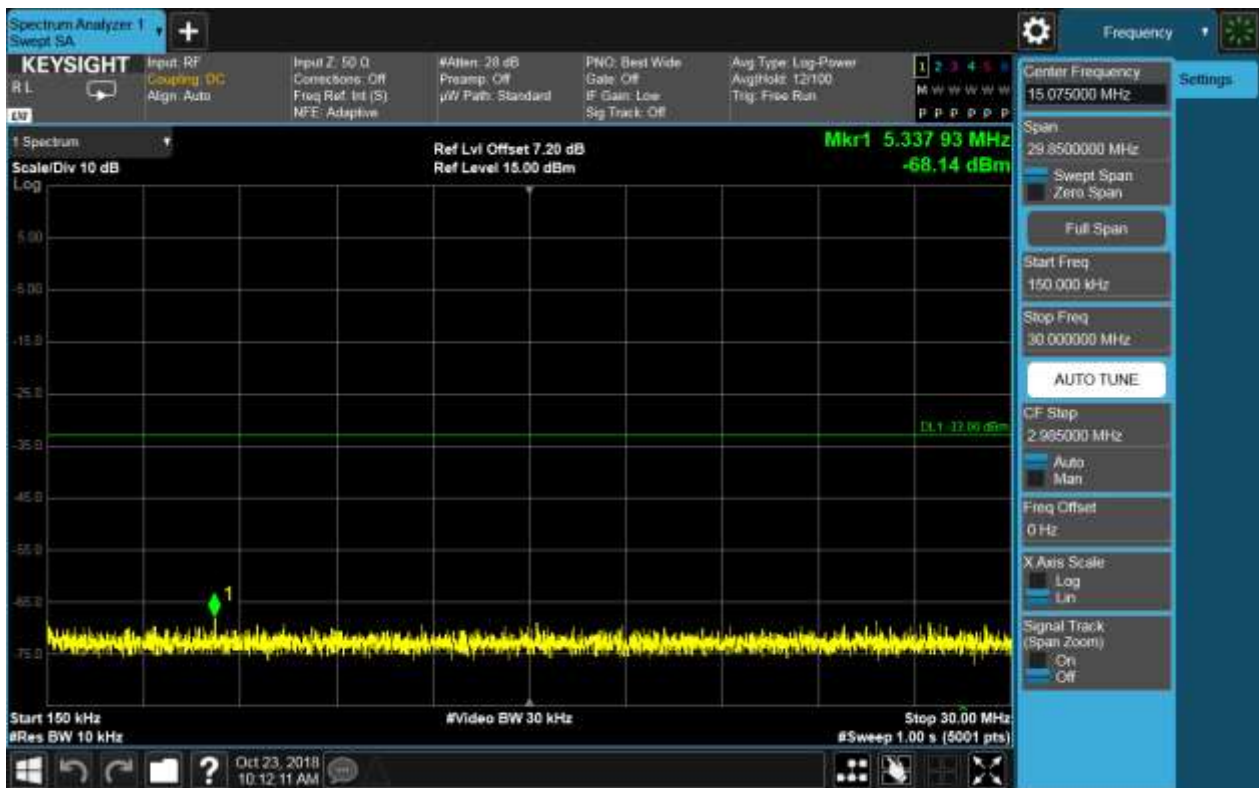




6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





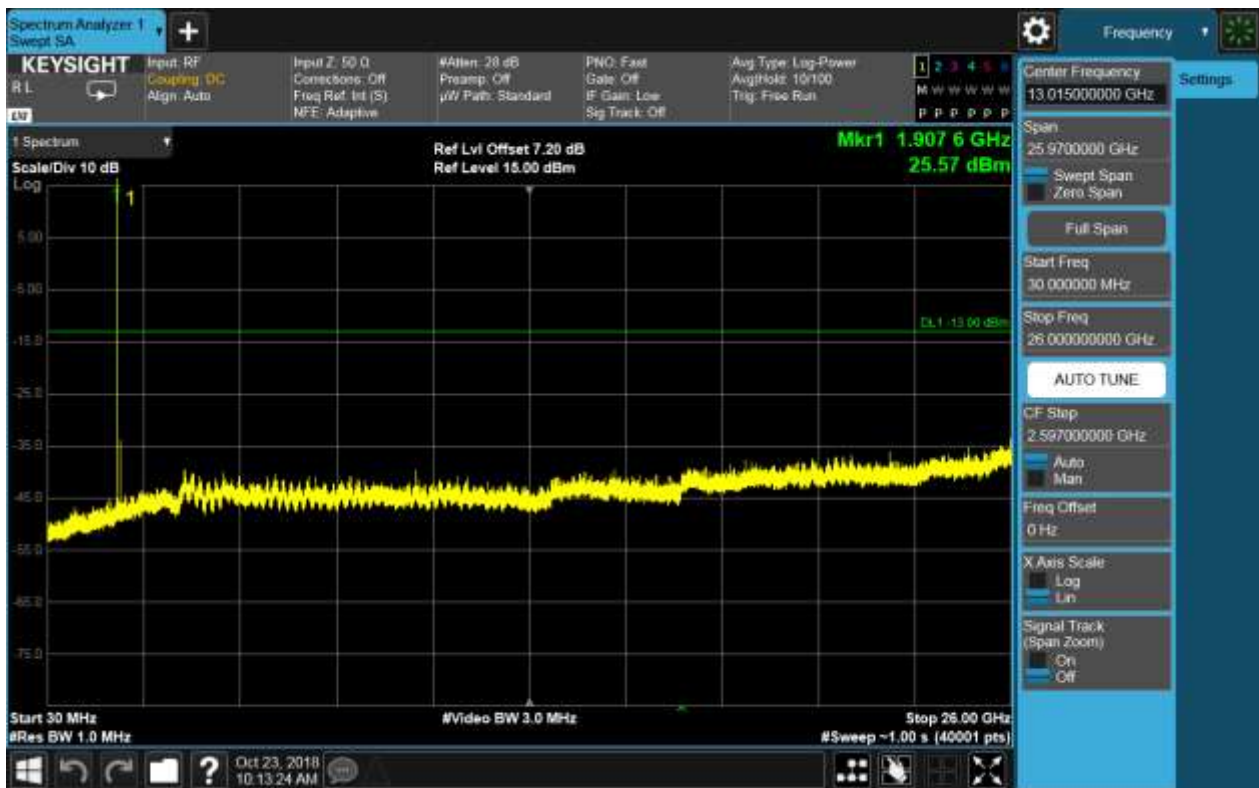


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







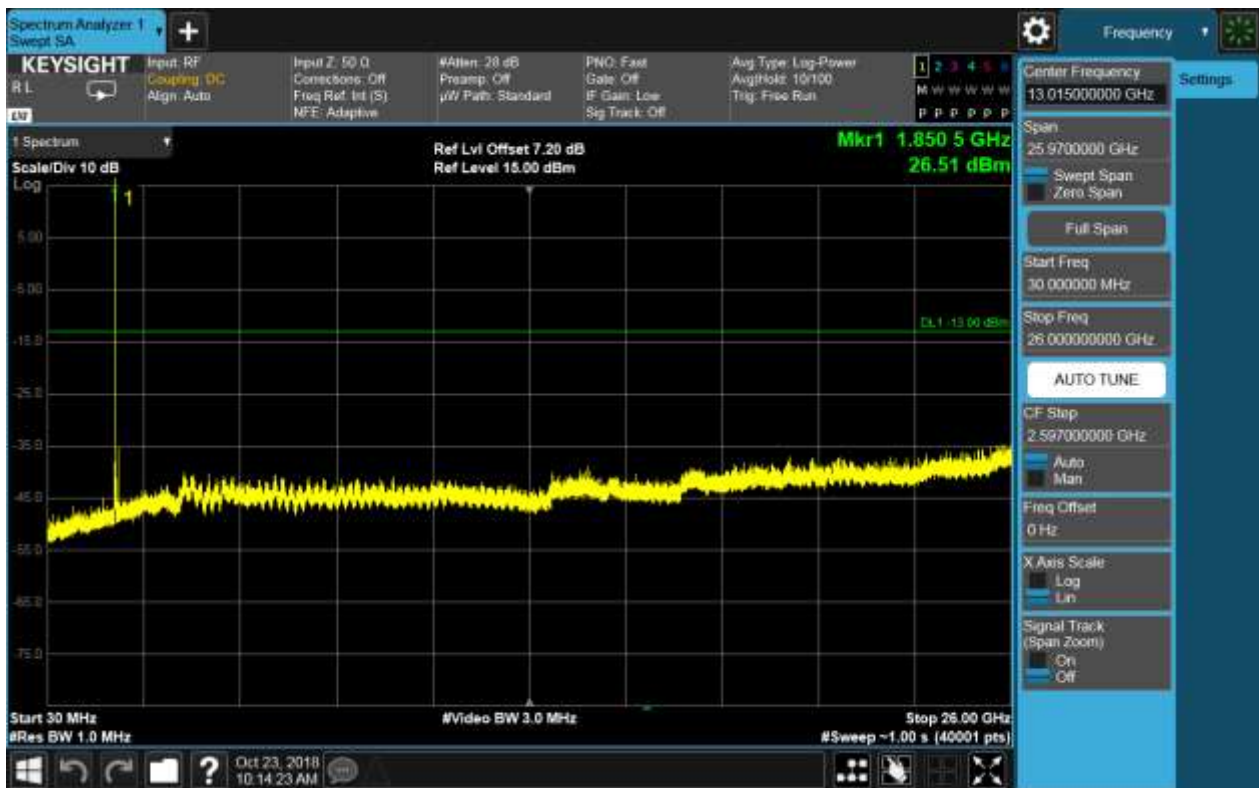
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





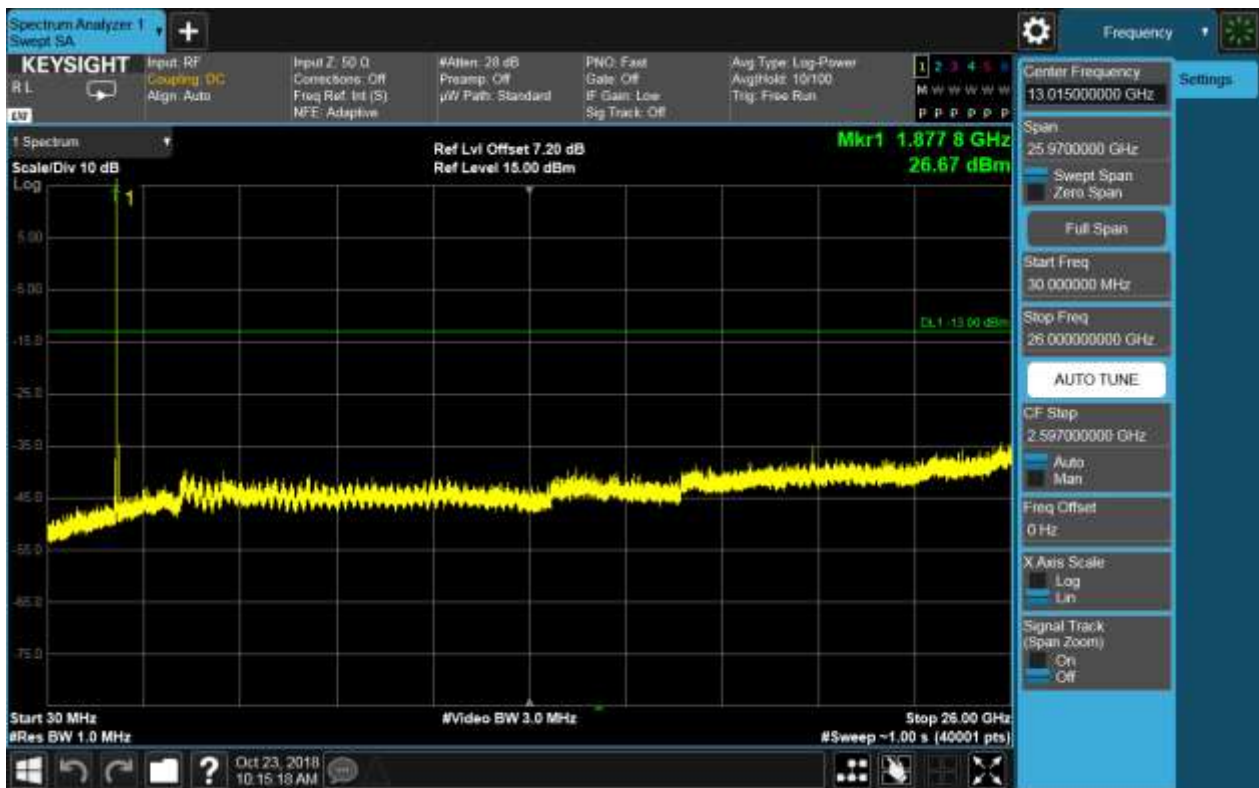


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





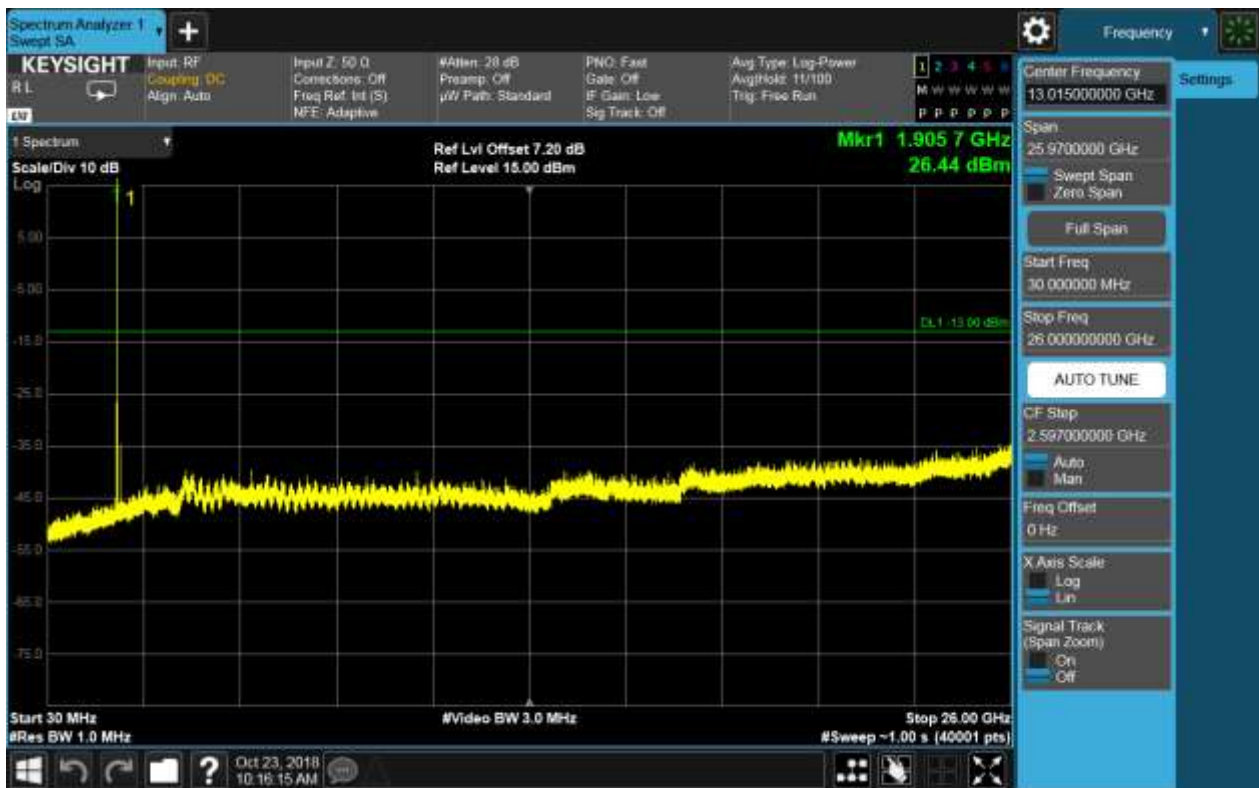


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







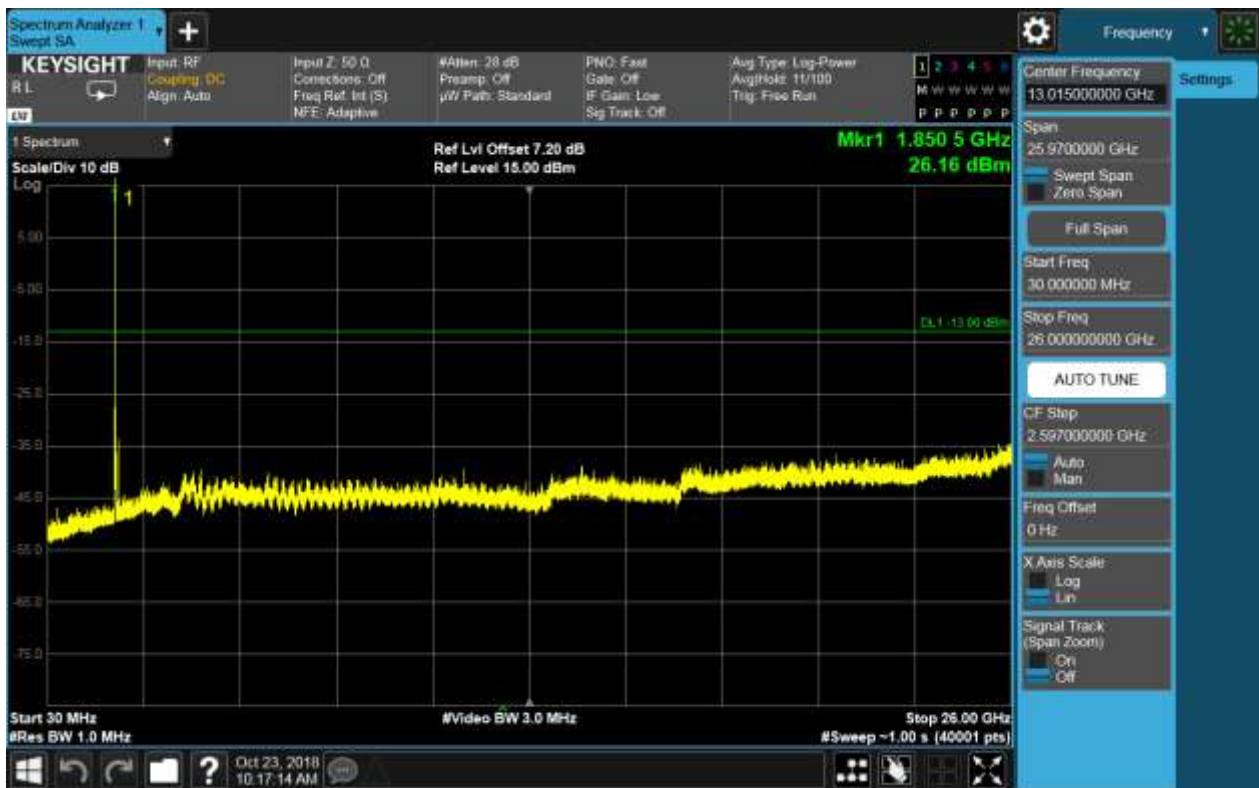
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





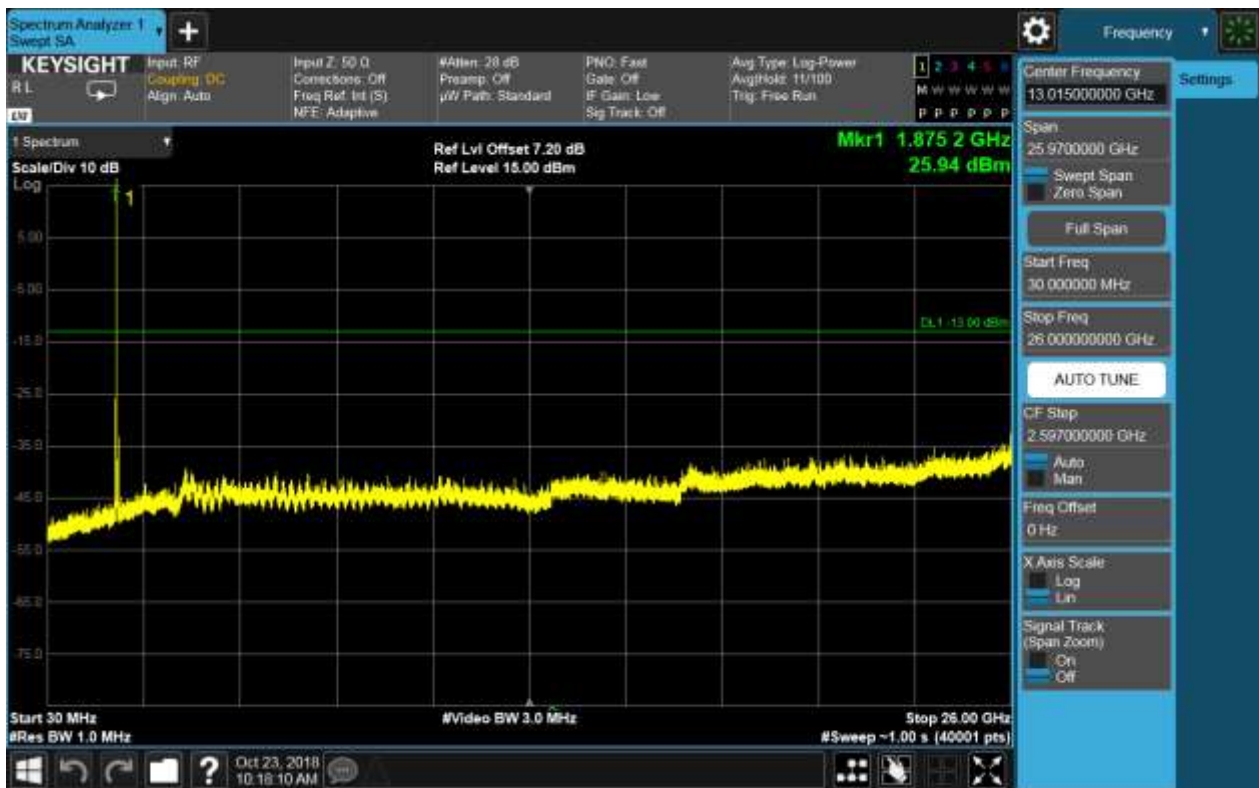


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





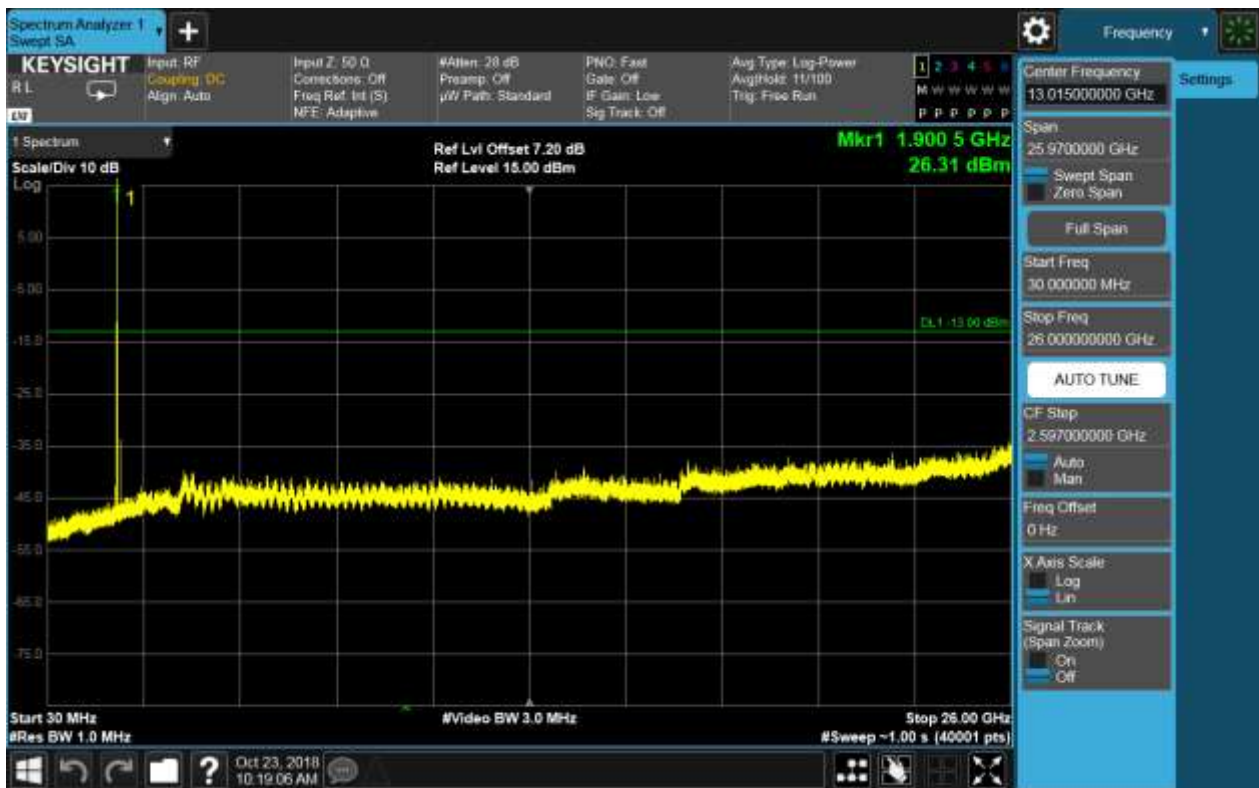


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







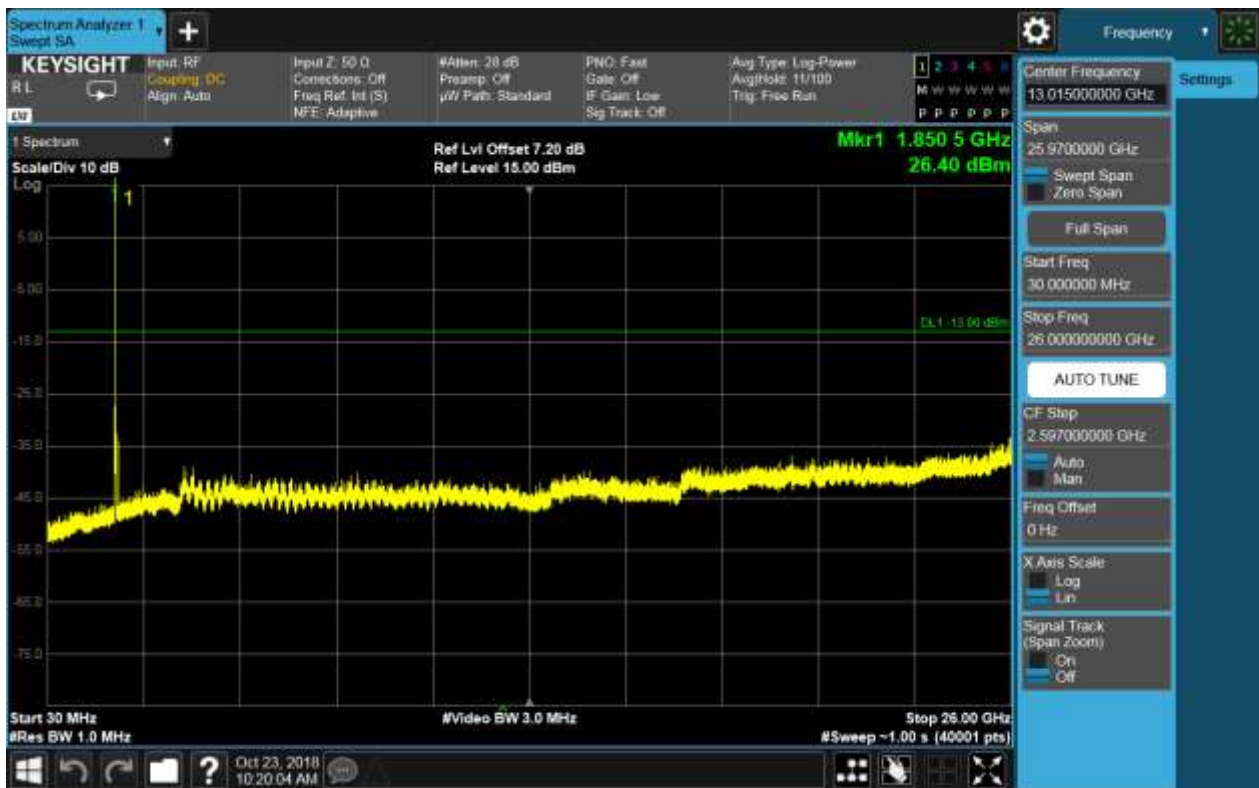
6.1.1.1.5 Test Bandwidth = 15

6.1.1.1.5.1 Test Channel = LCH

6.1.1.1.5.1.1 Test RB = RB1#0



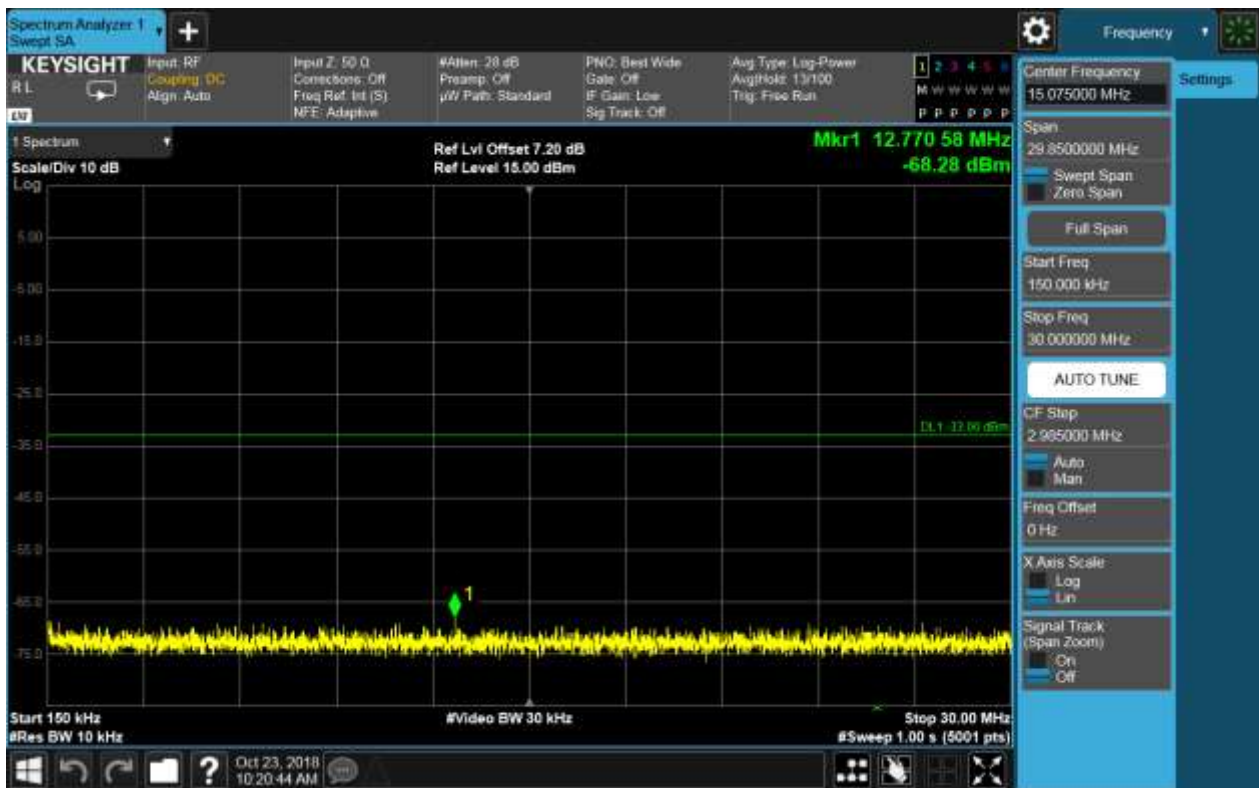


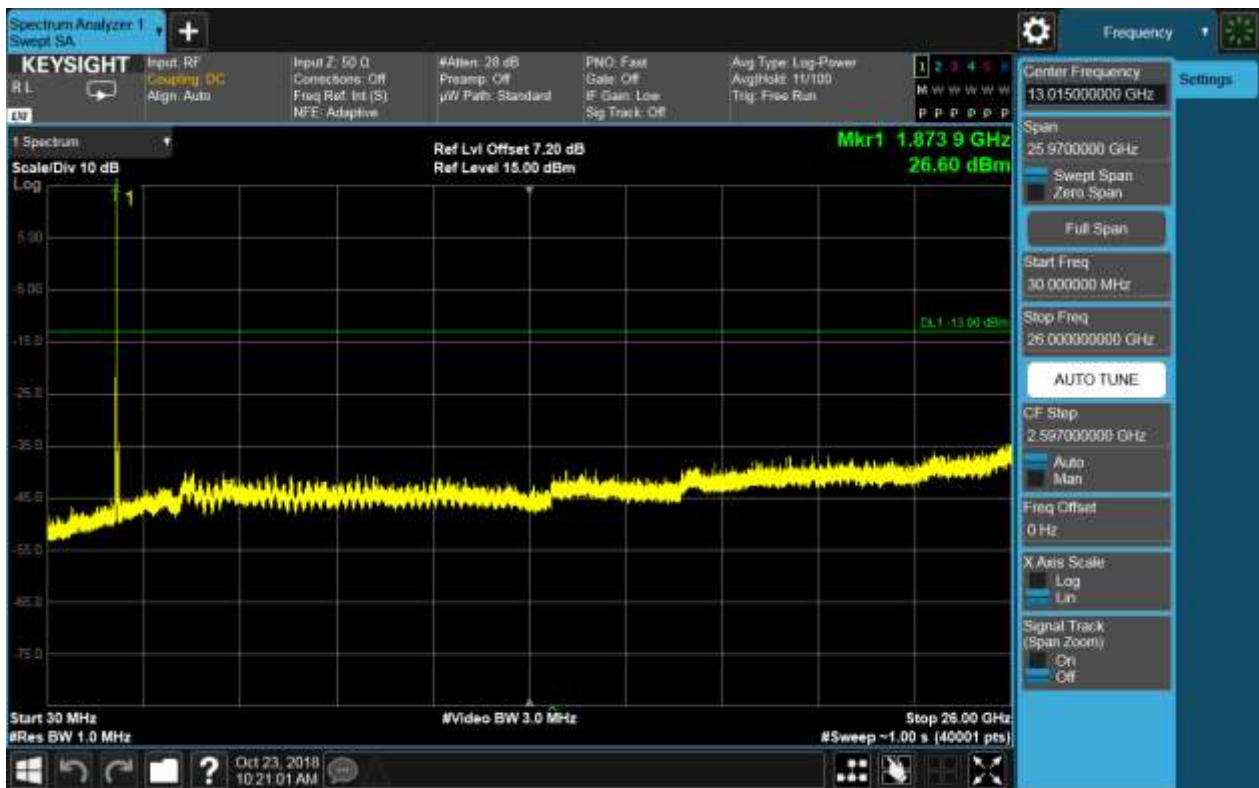


6.1.1.1.5.2 Test Channel = MCH

6.1.1.1.5.2.1 Test RB = RB1#0





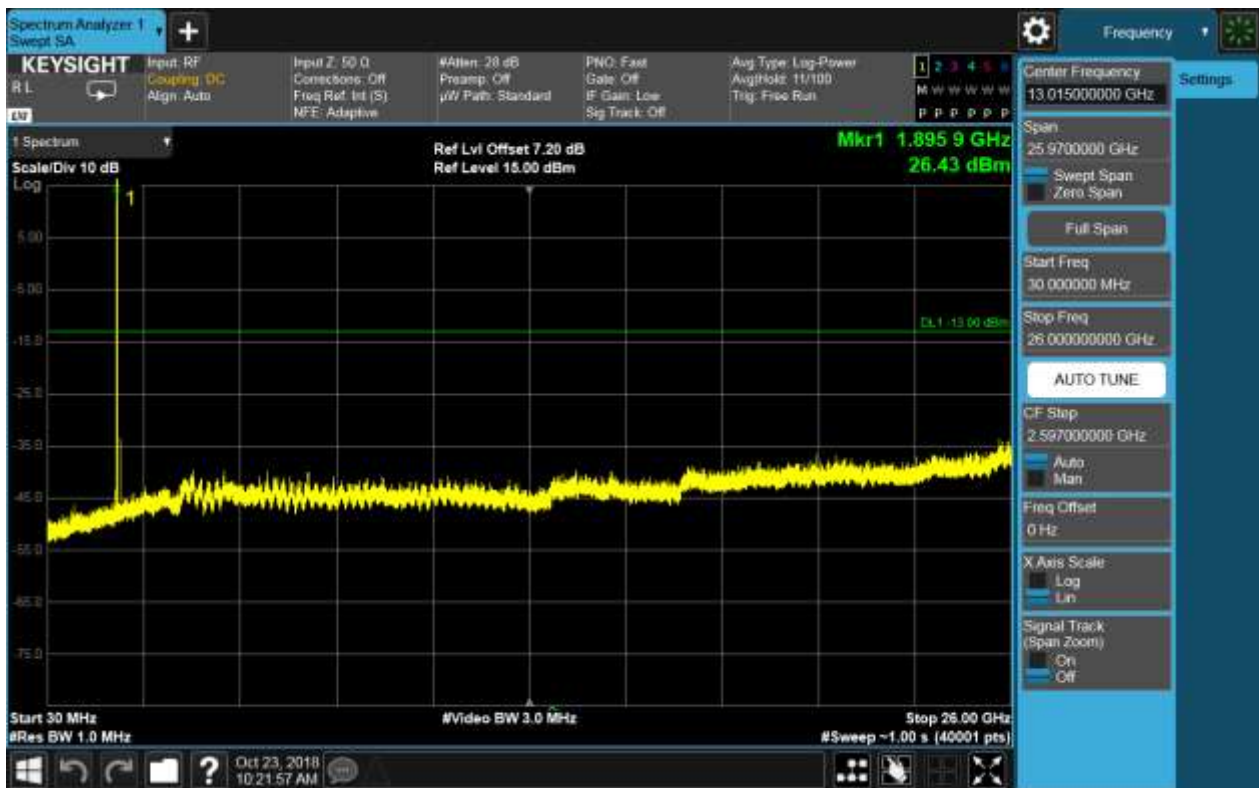


6.1.1.1.5.3 Test Channel = HCH

6.1.1.1.5.3.1 Test RB = RB1#0





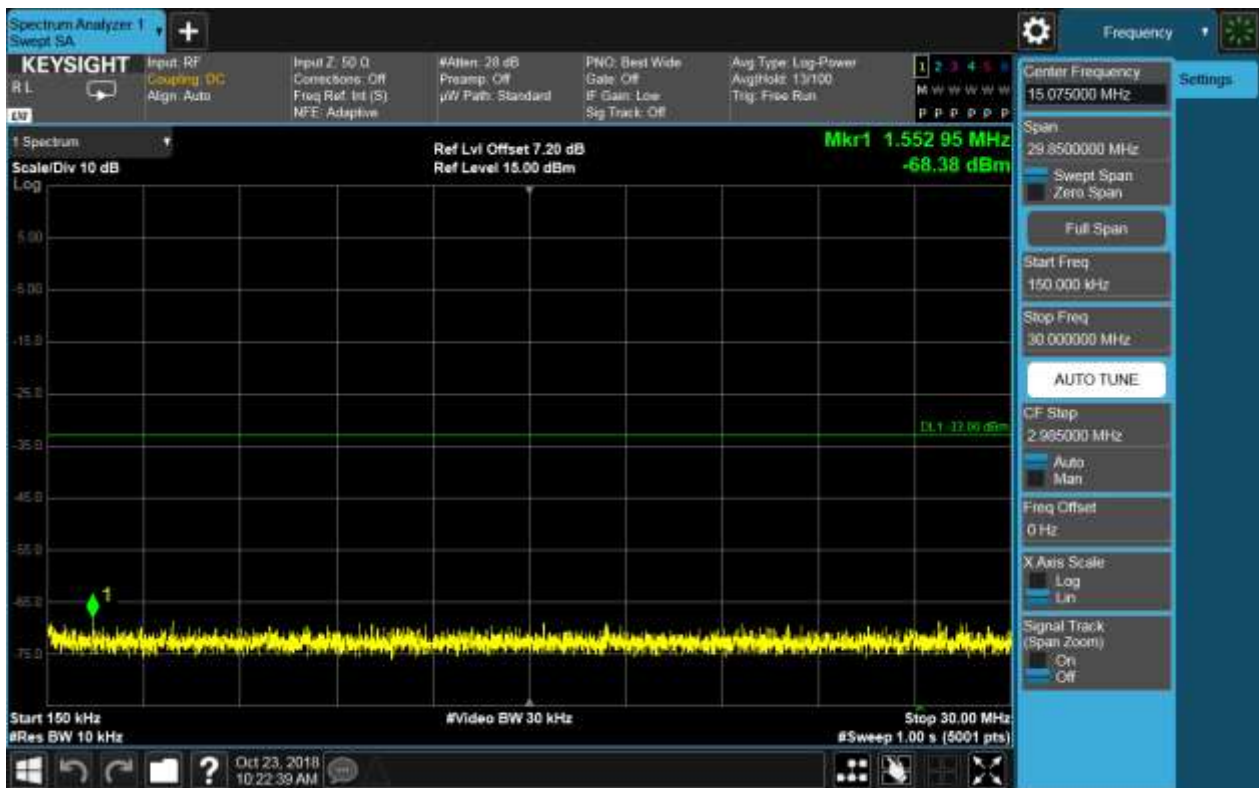


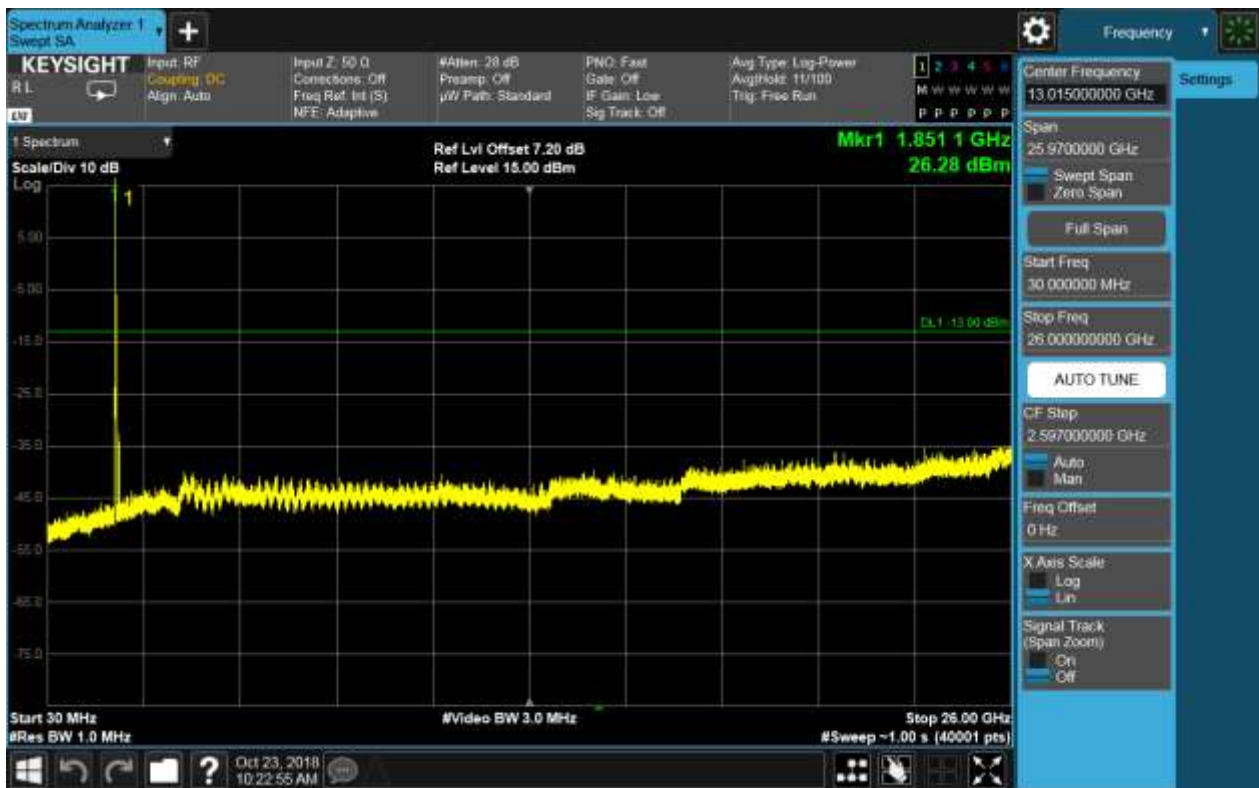
6.1.1.1.6 Test Bandwidth = 20

6.1.1.1.6.1 Test Channel = LCH

6.1.1.1.6.1.1 Test RB = RB1#0





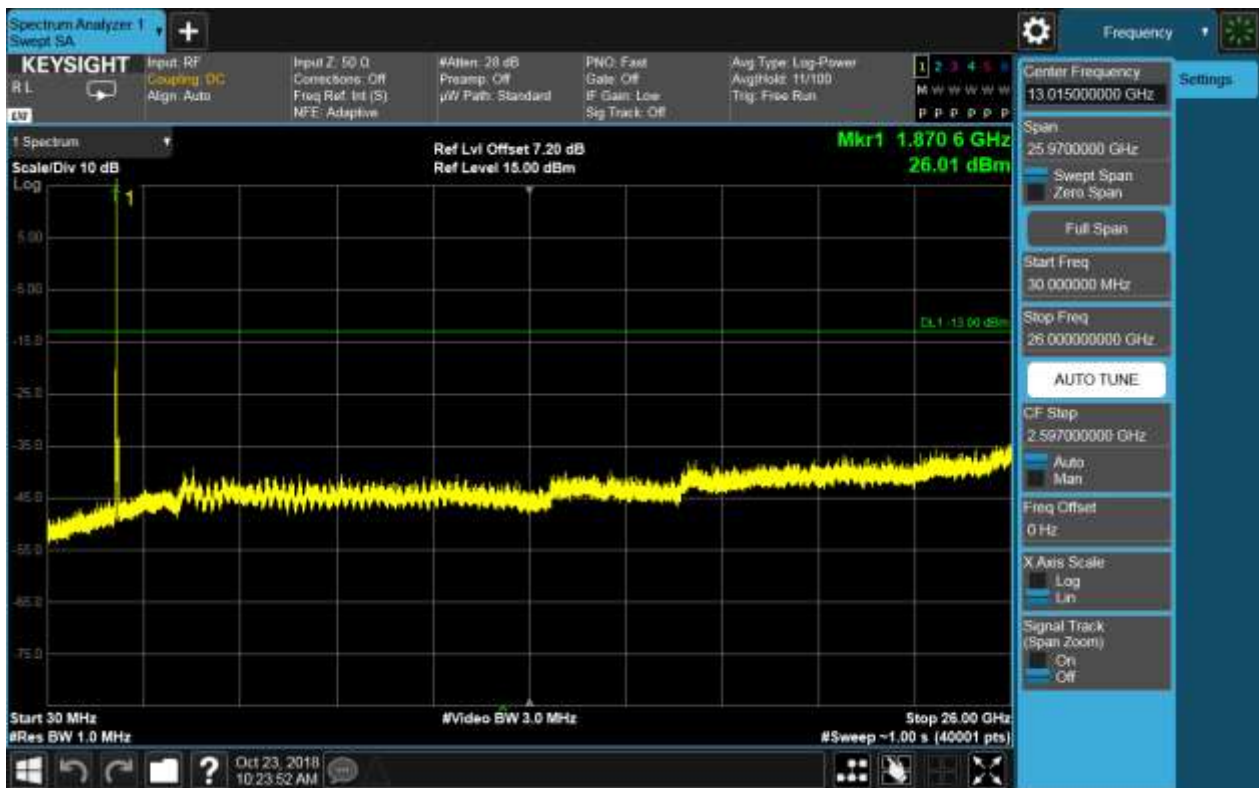


6.1.1.1.6.2 Test Channel = MCH

6.1.1.1.6.2.1 Test RB = RB1#0







6.1.1.1.6.3 Test Channel = HCH

6.1.1.1.6.3.1 Test RB = RB1#0







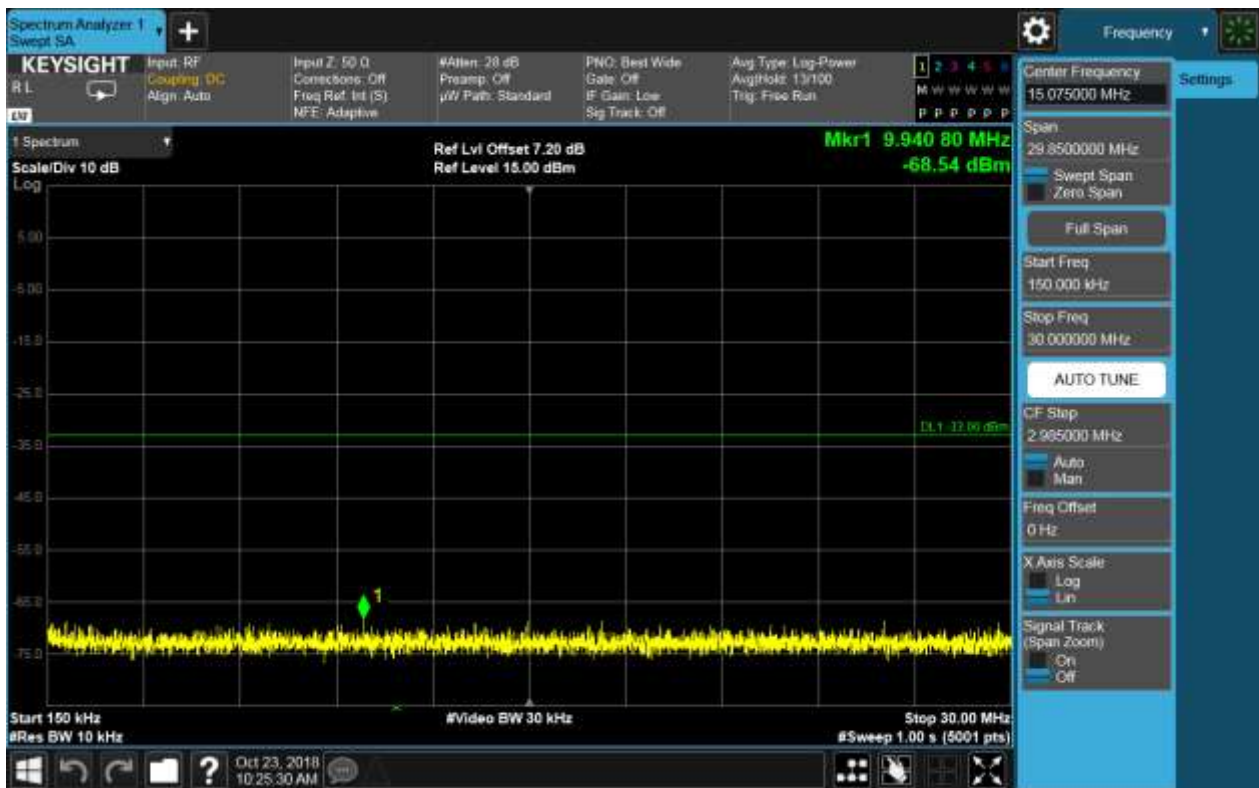
6.1.1.2 Test Mode = LTE/TM2

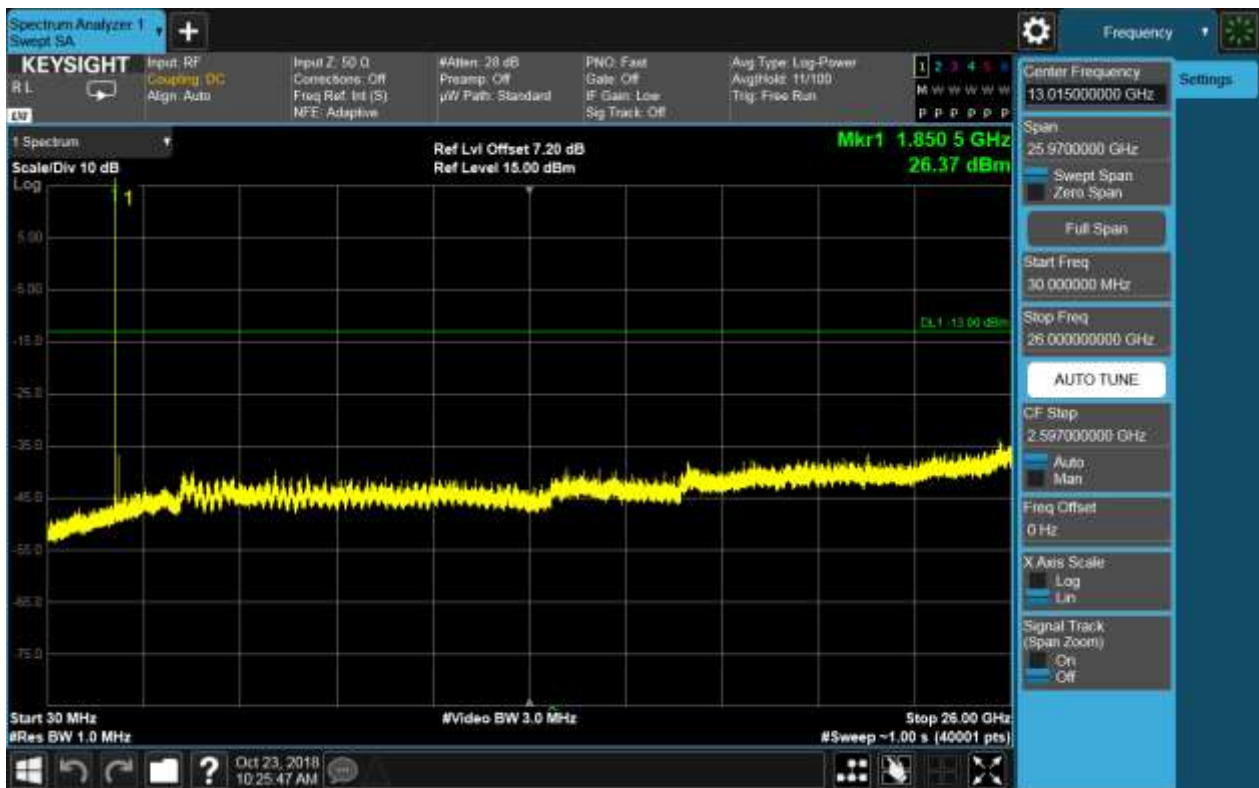
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





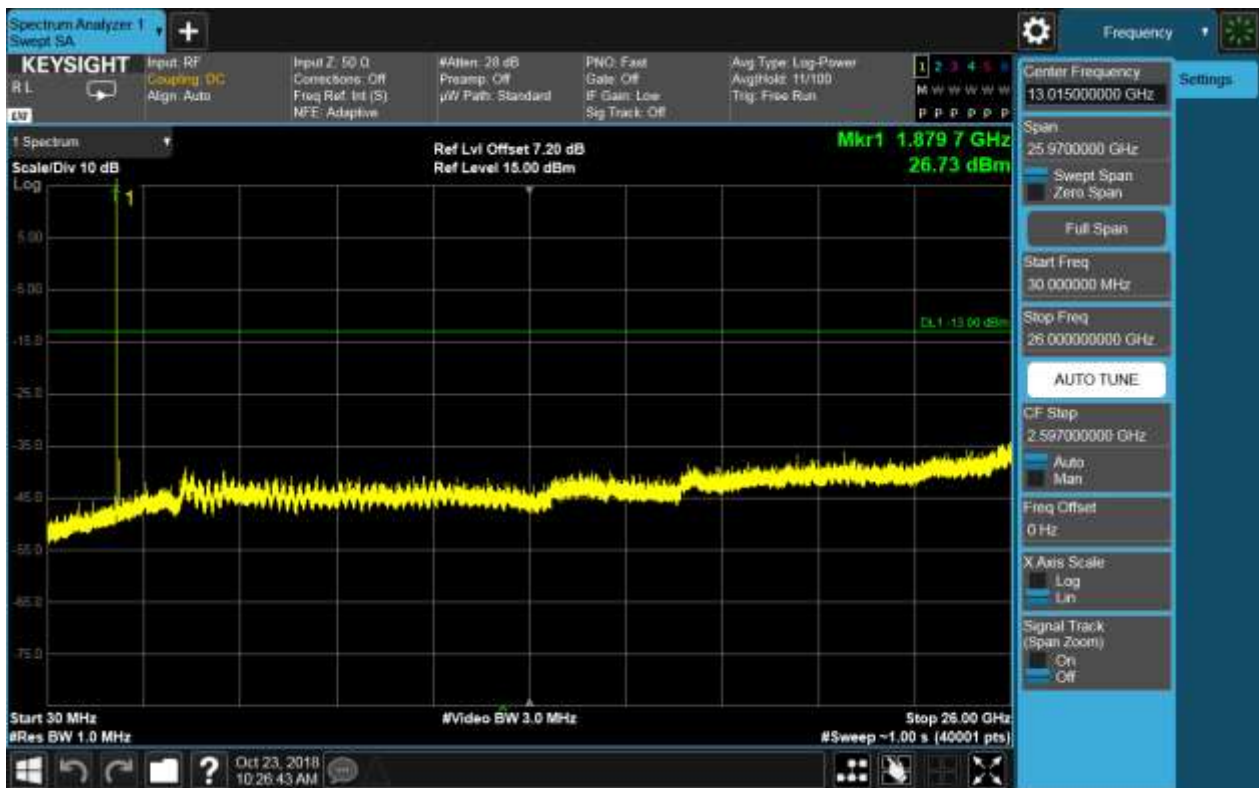


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





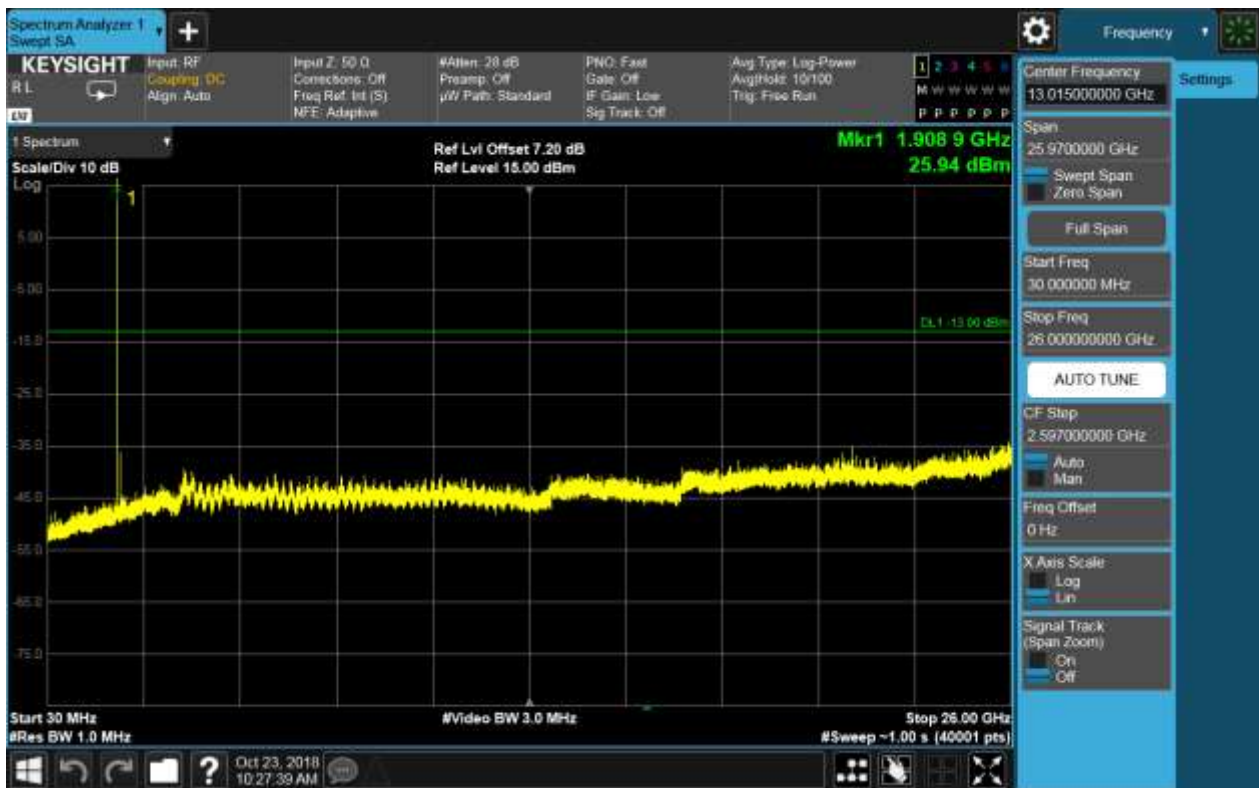


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





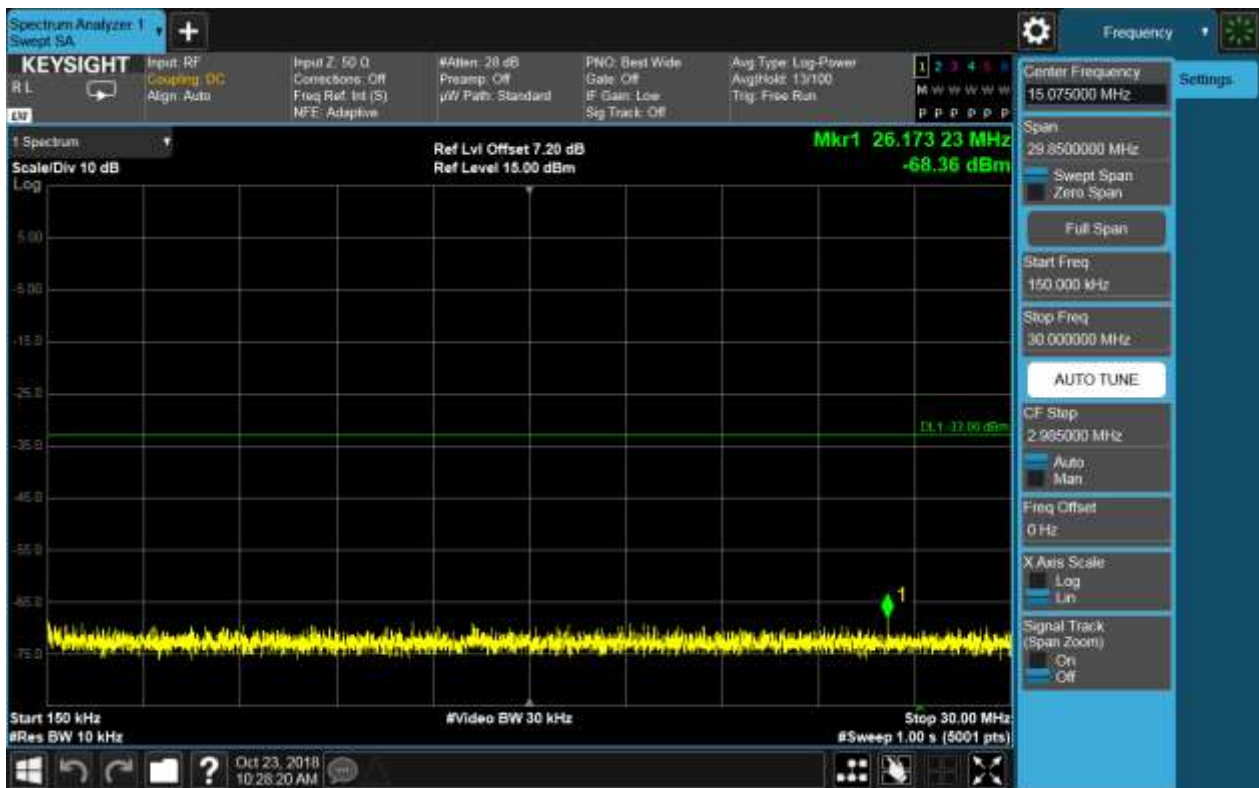


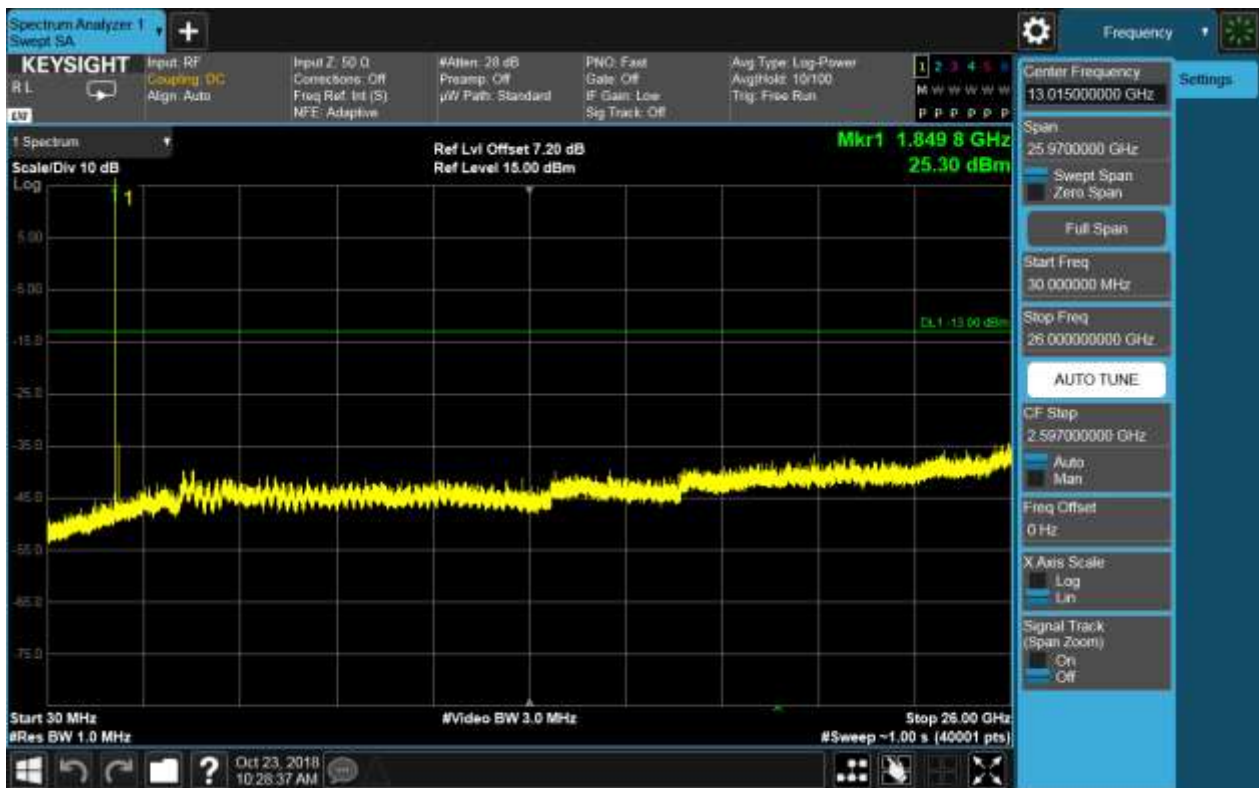
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





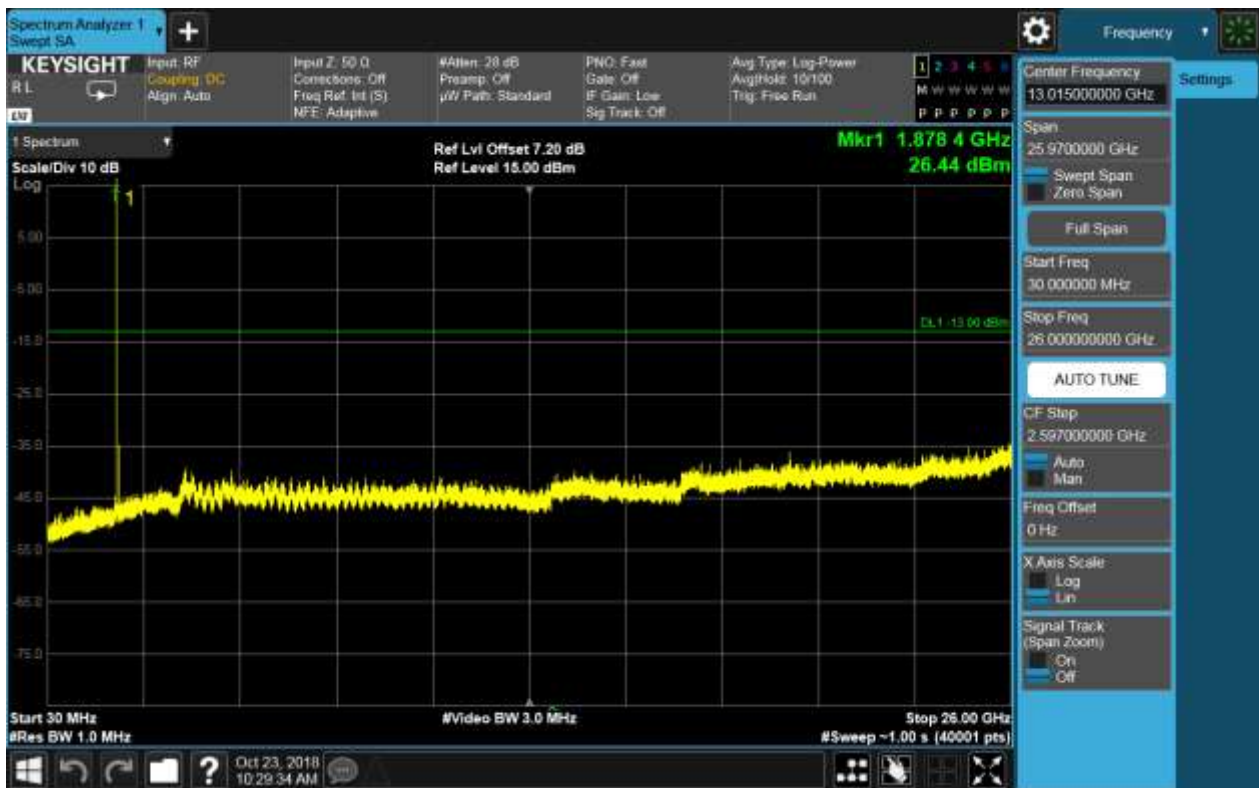


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





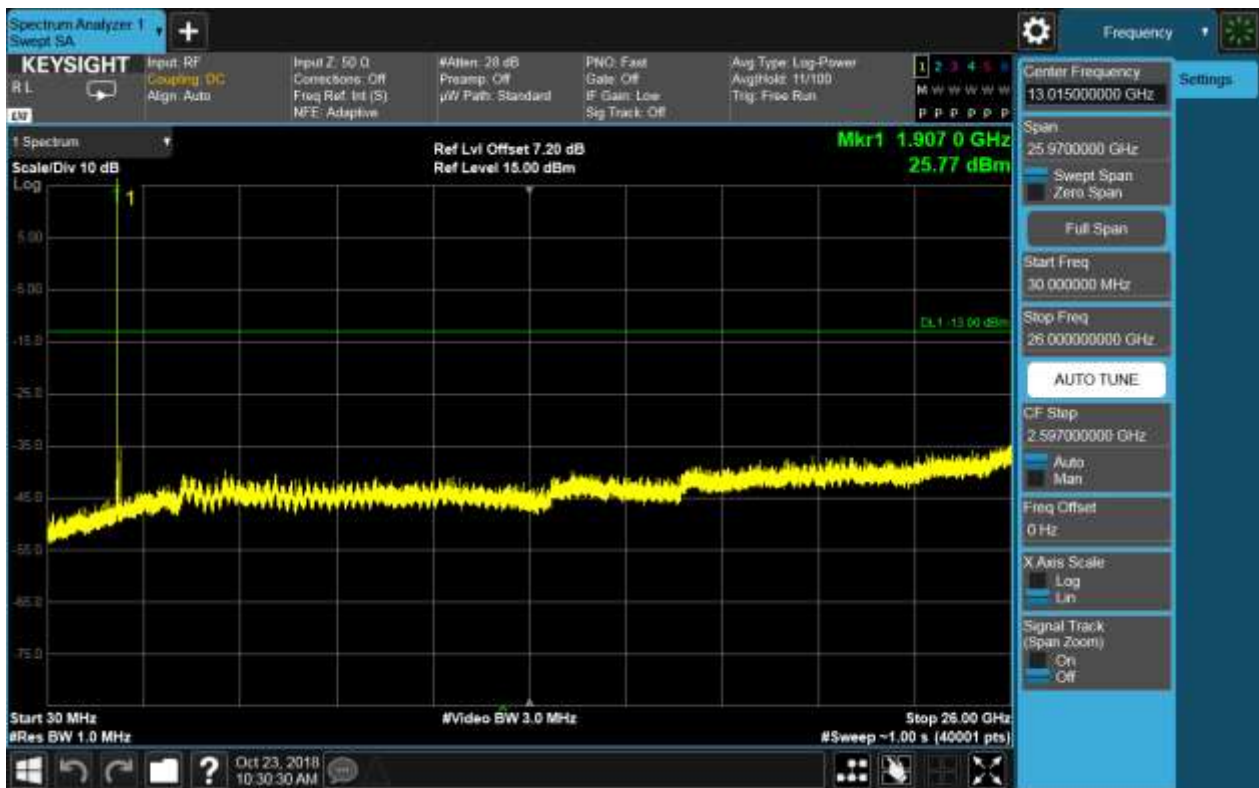


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







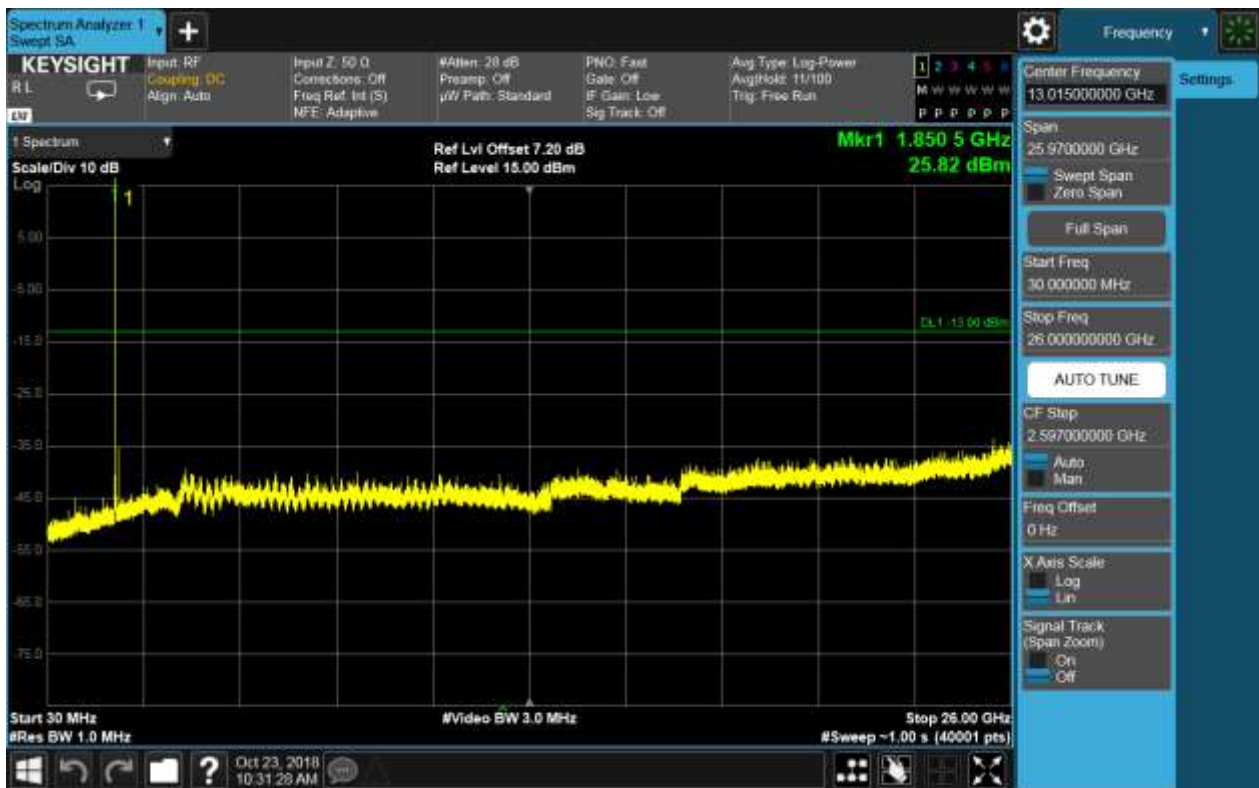
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





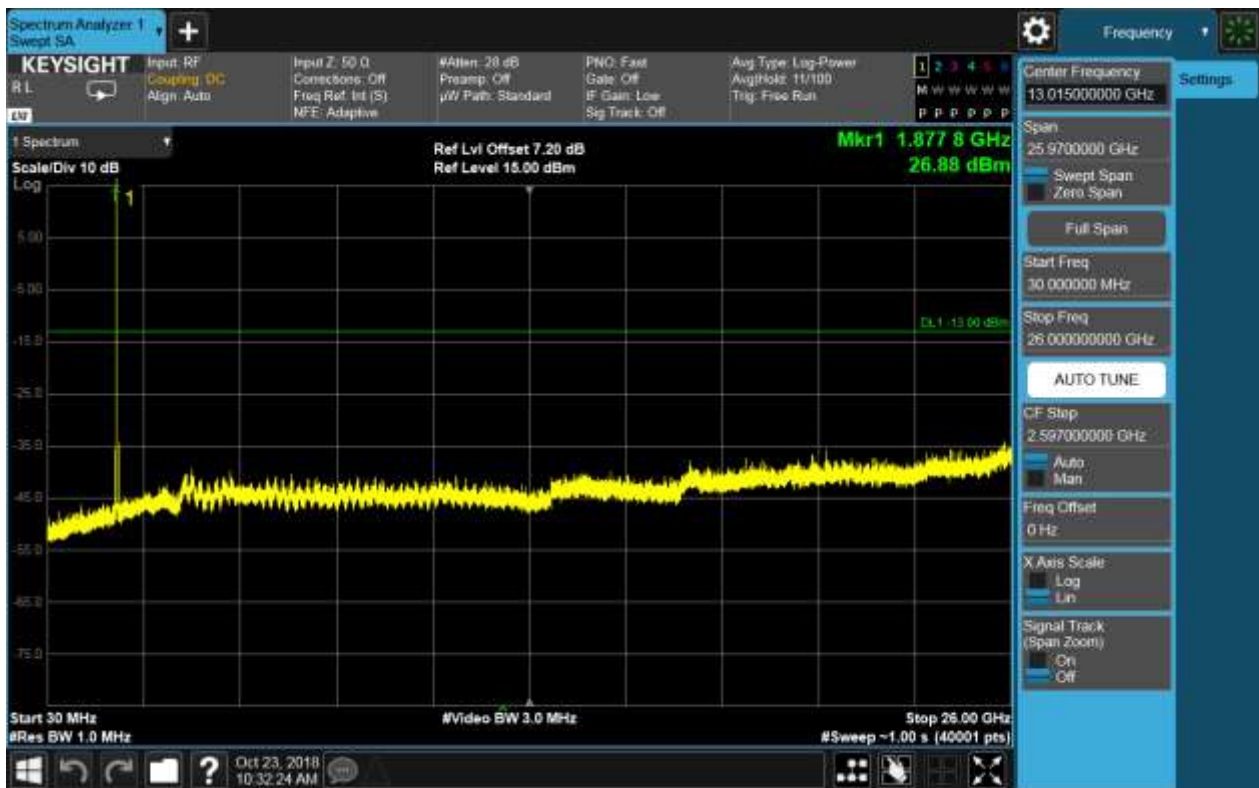


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





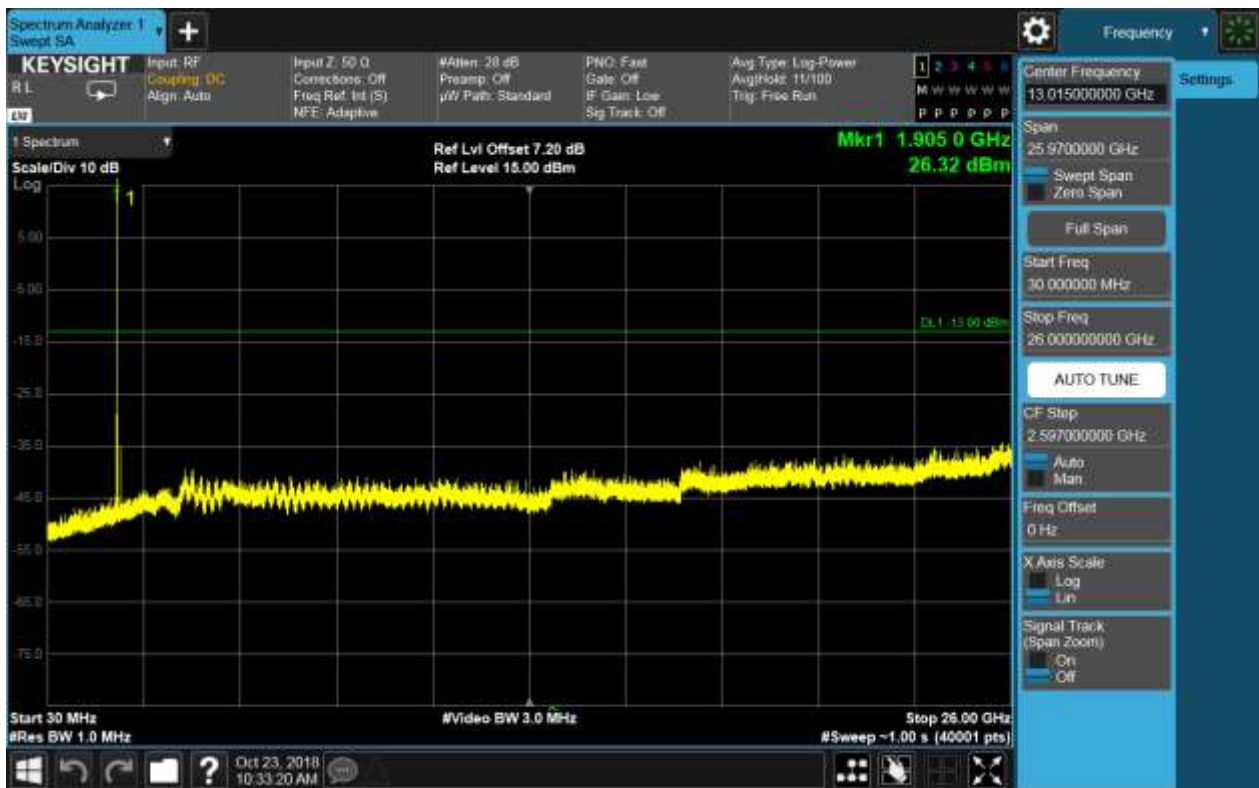


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





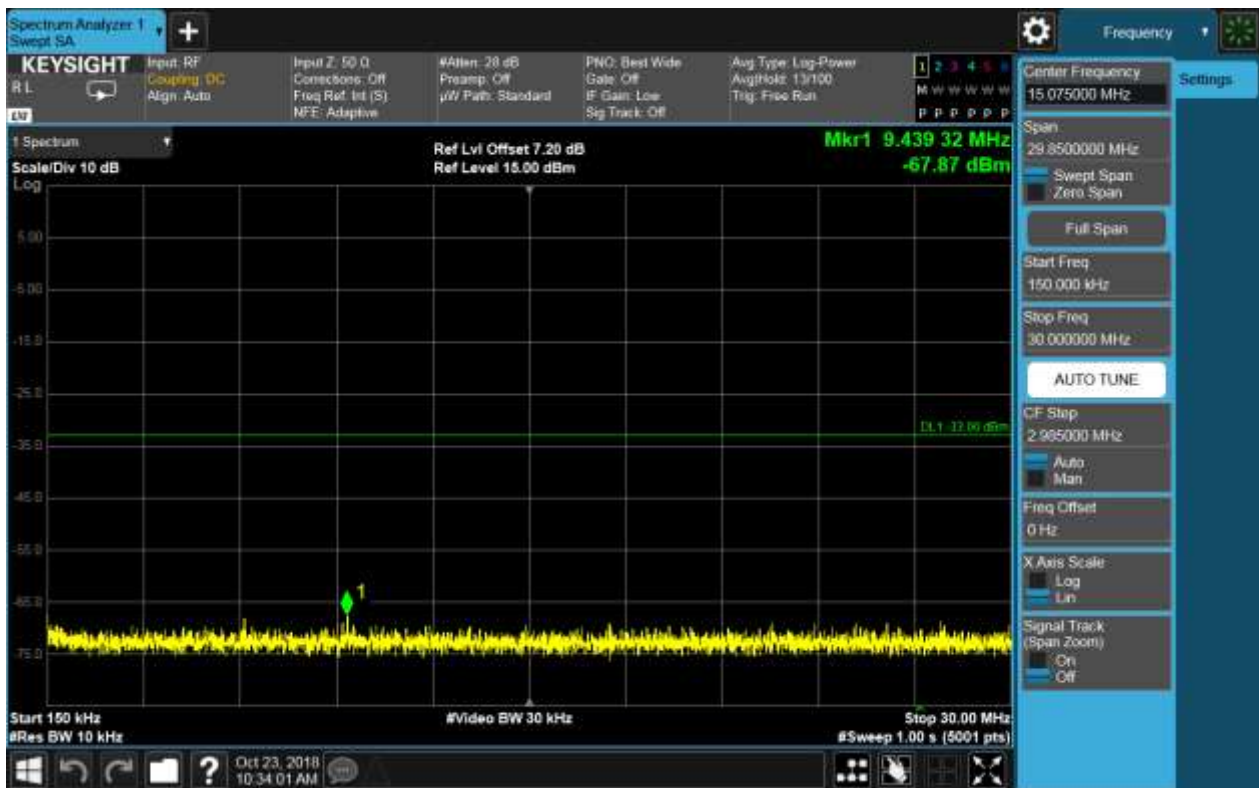


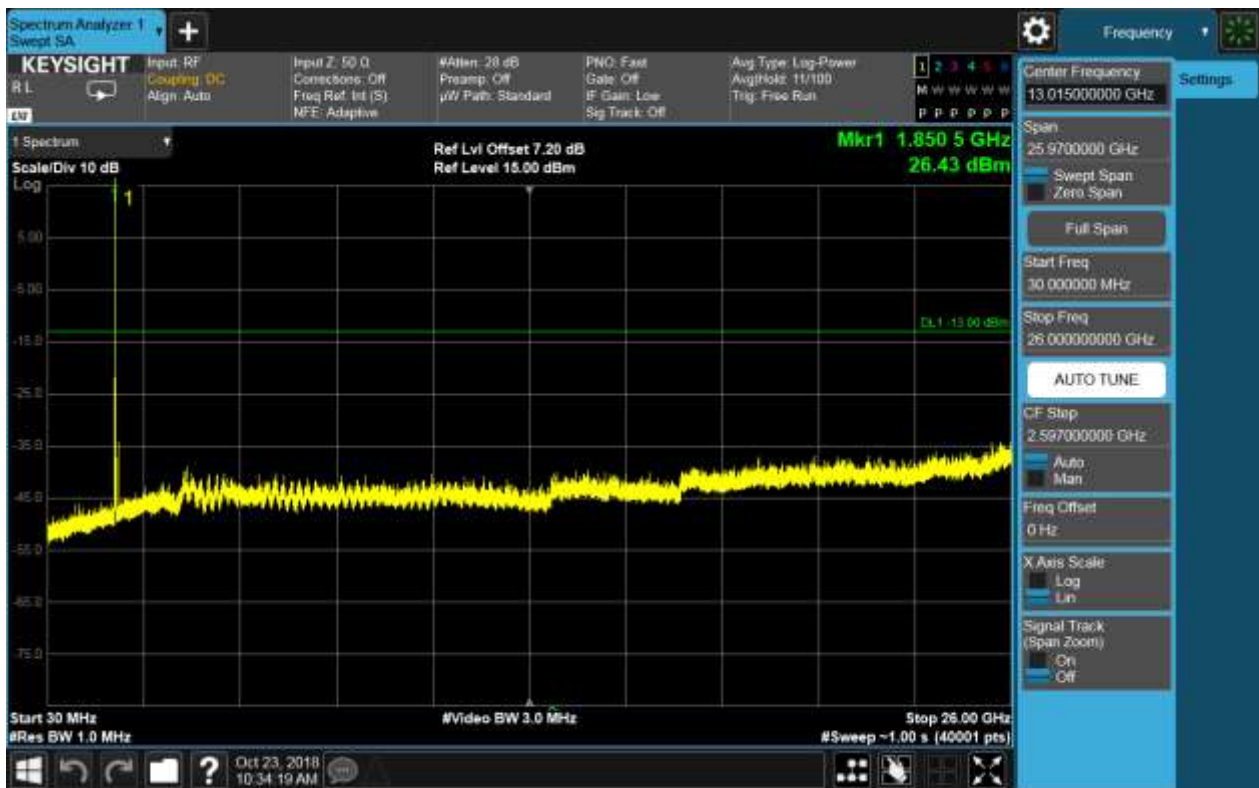
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





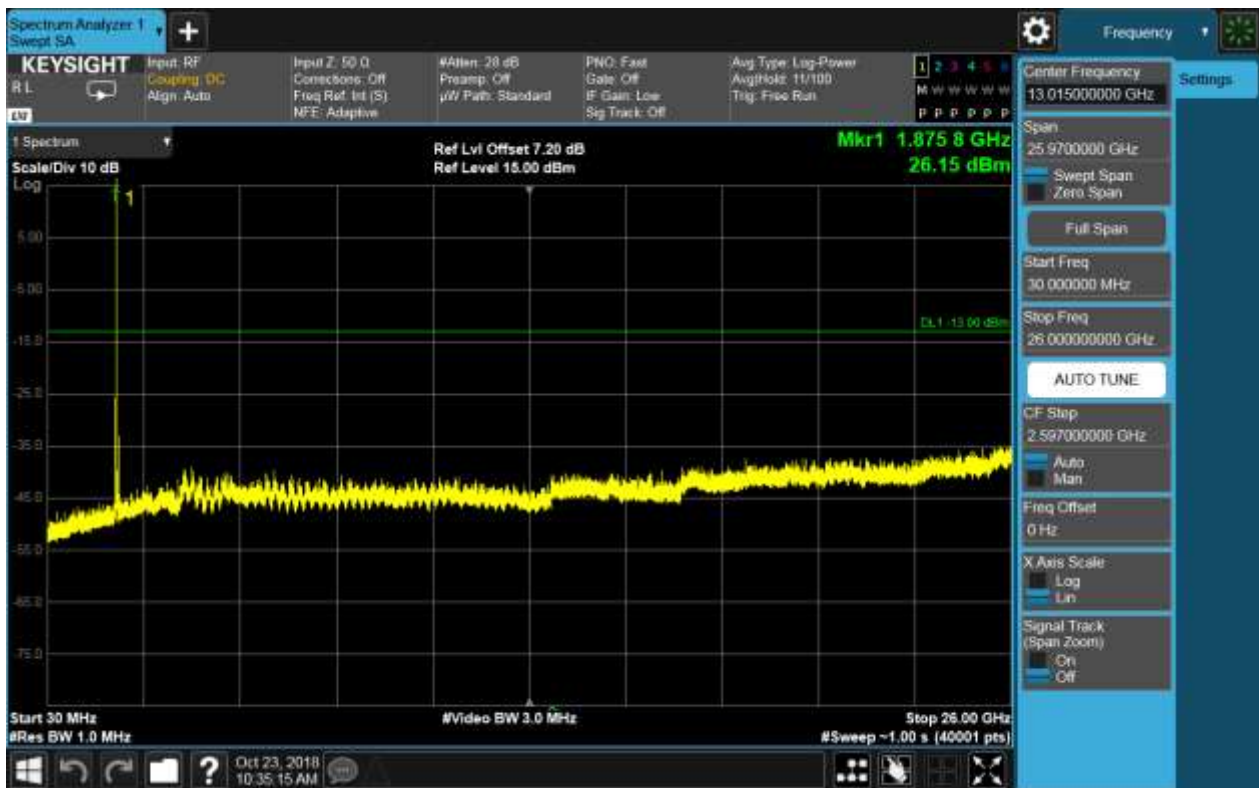


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





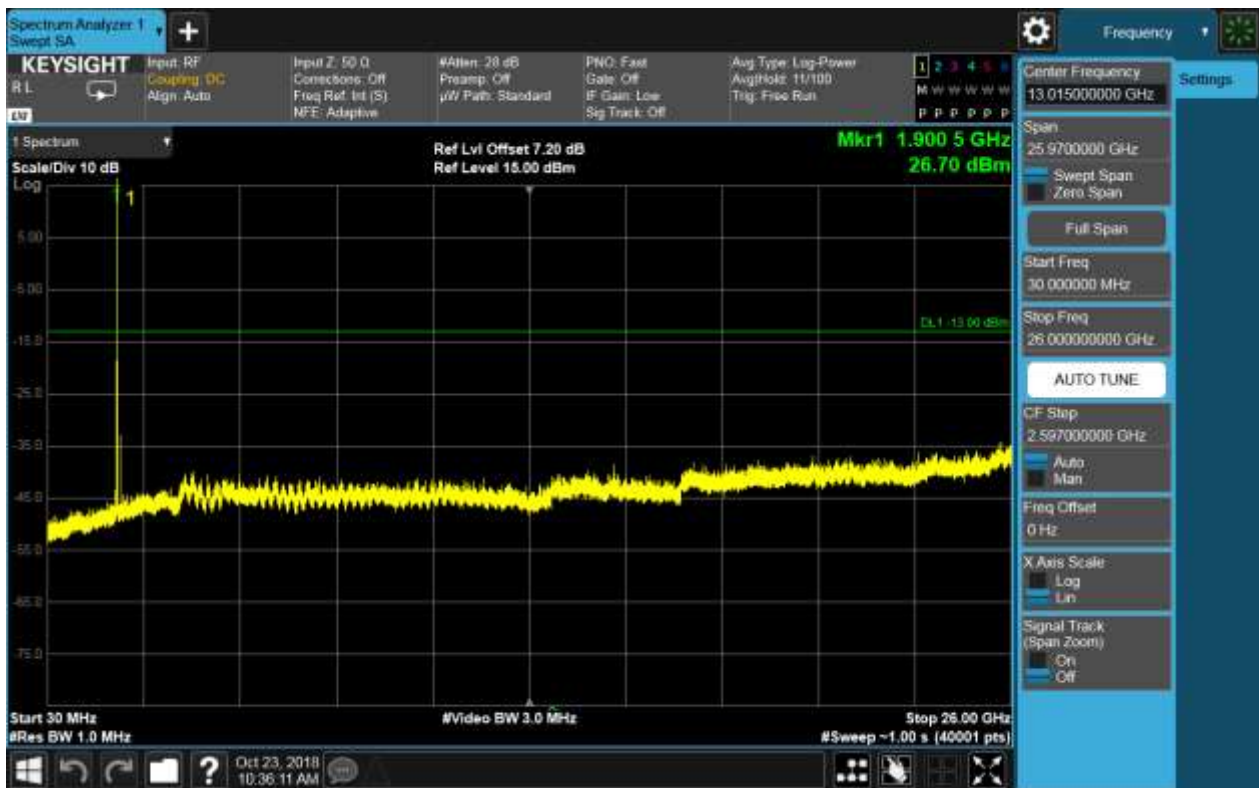


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







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



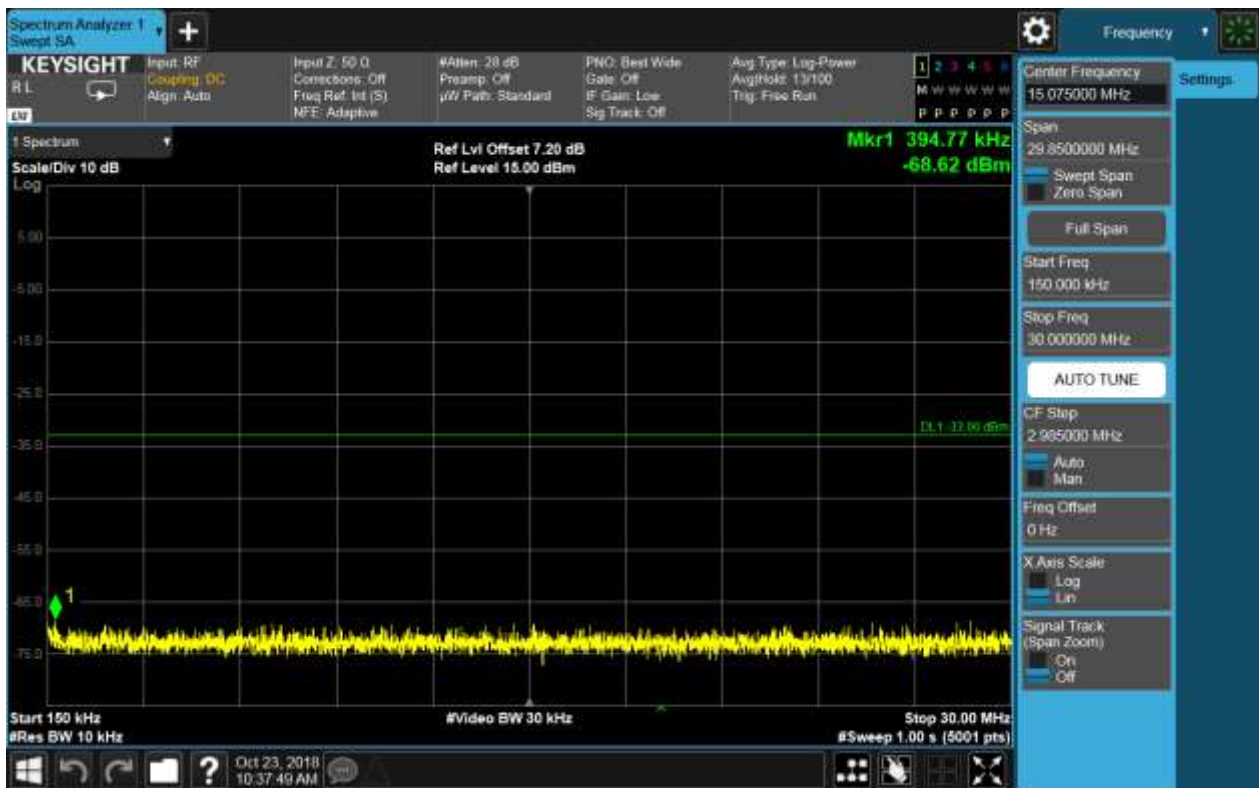


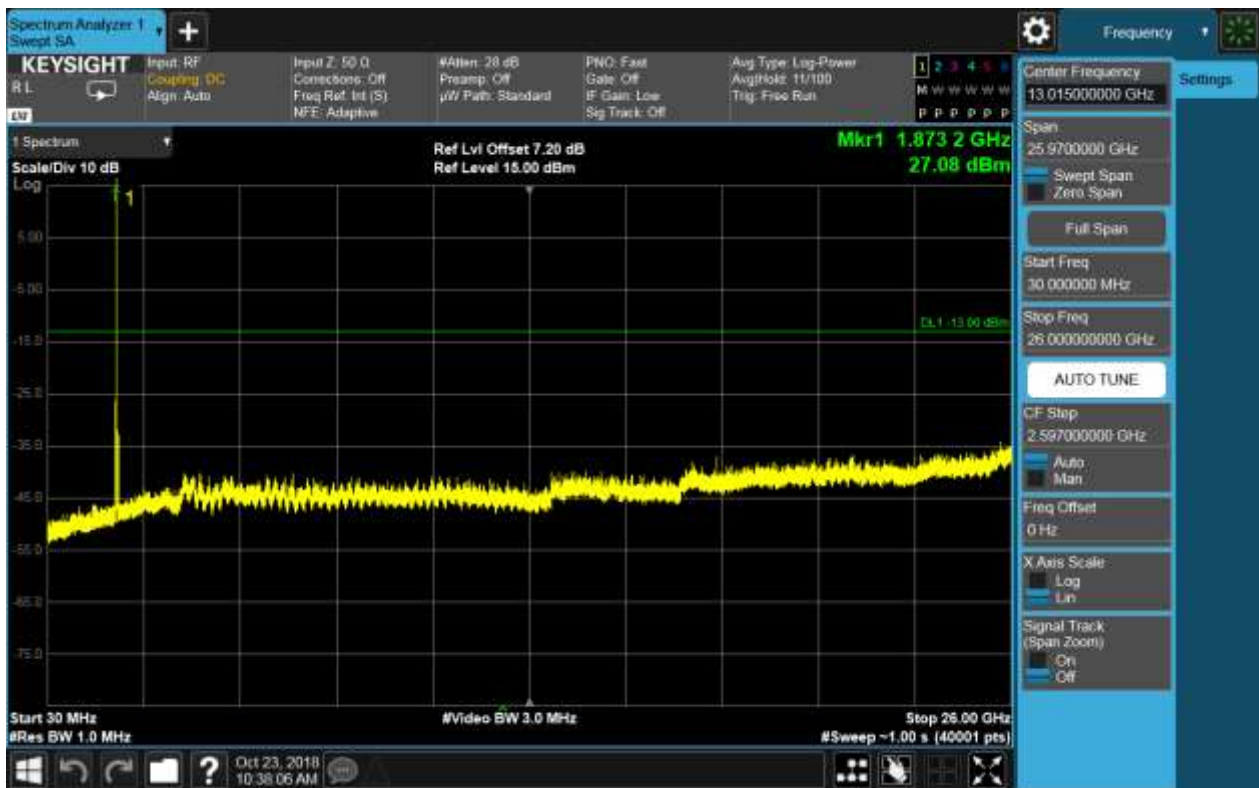


6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0



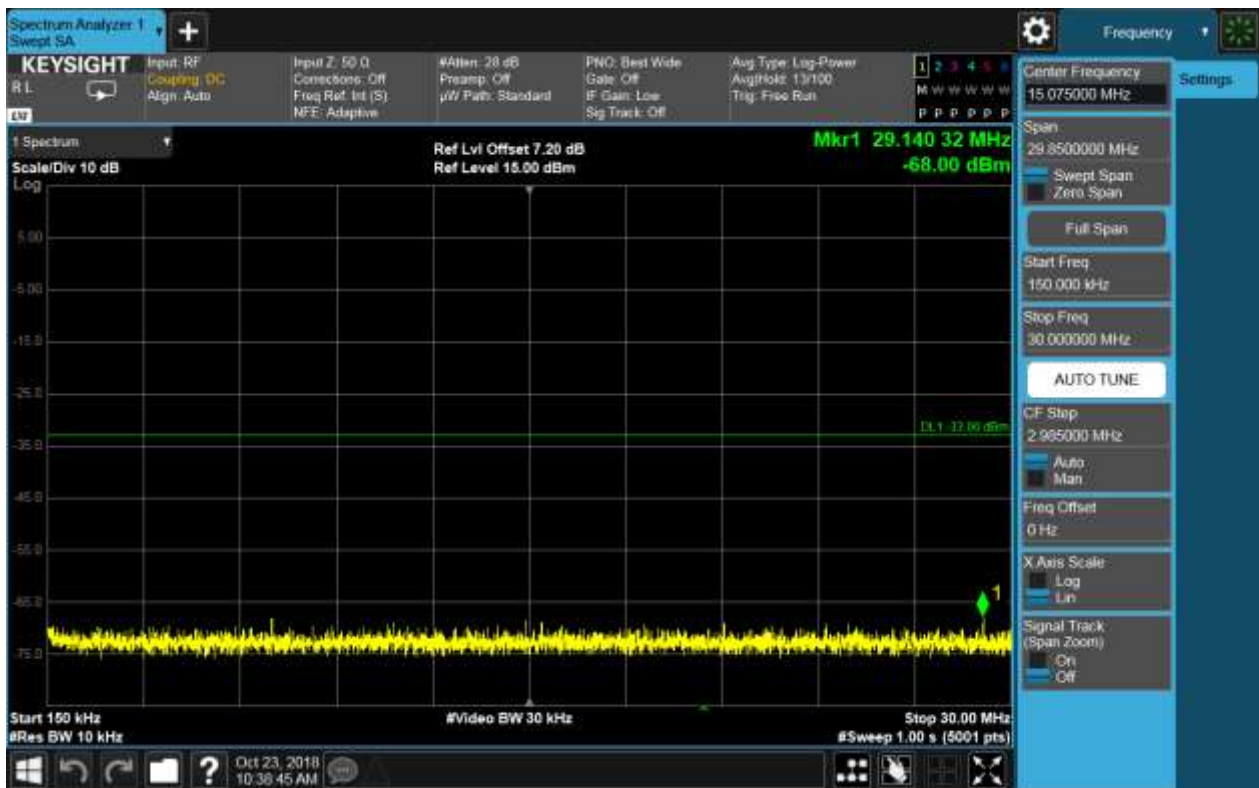


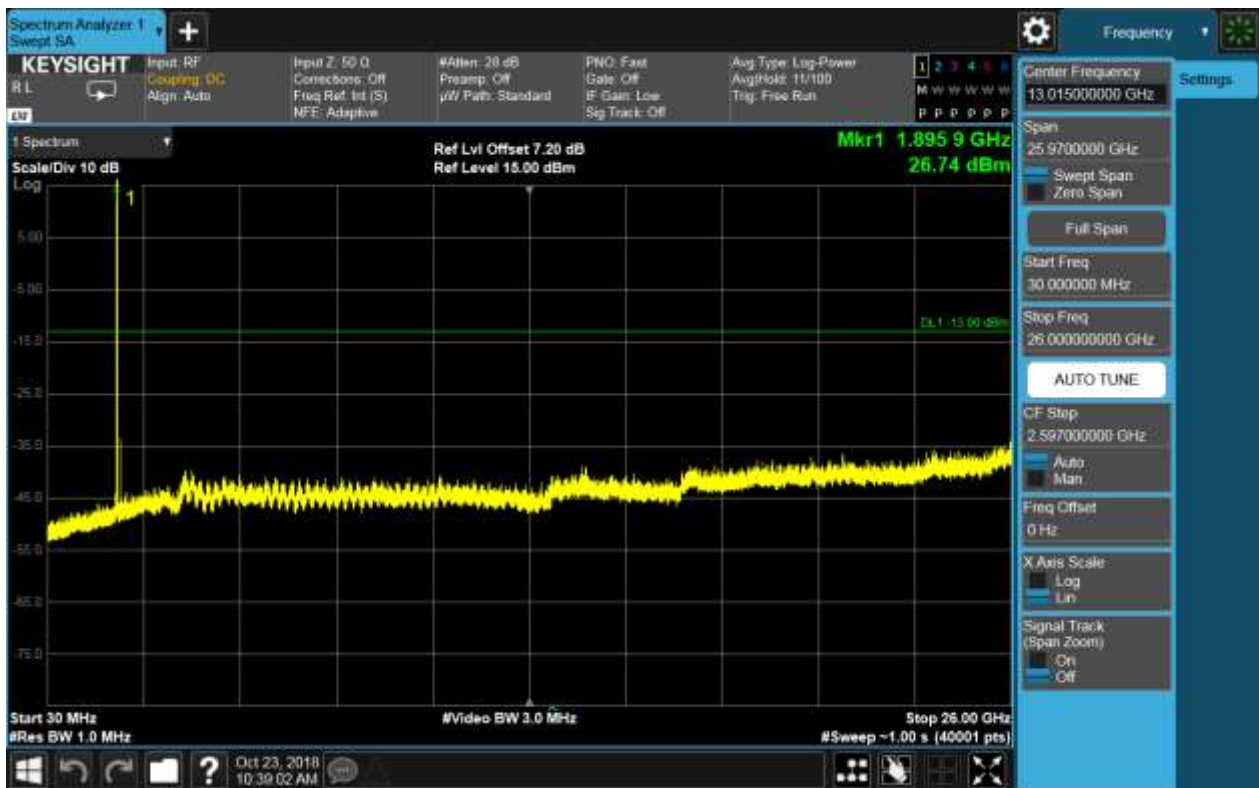


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0







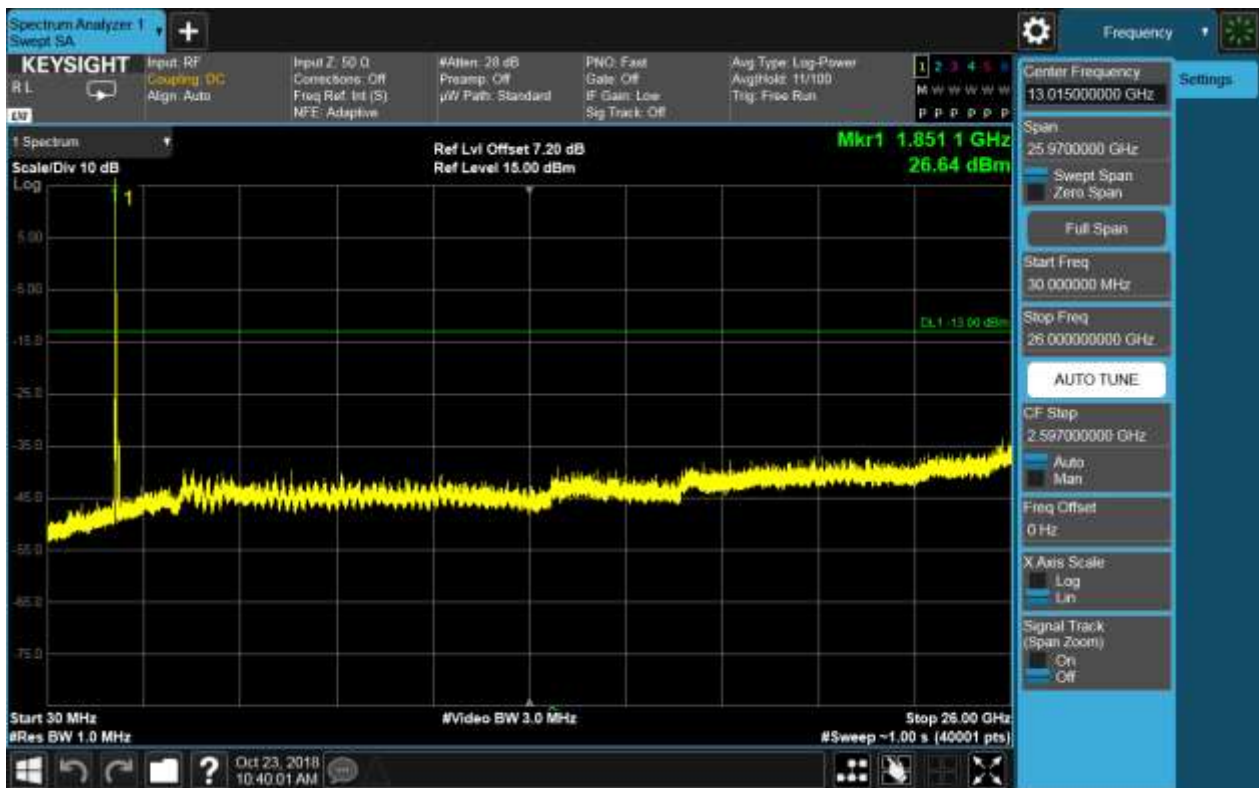
6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



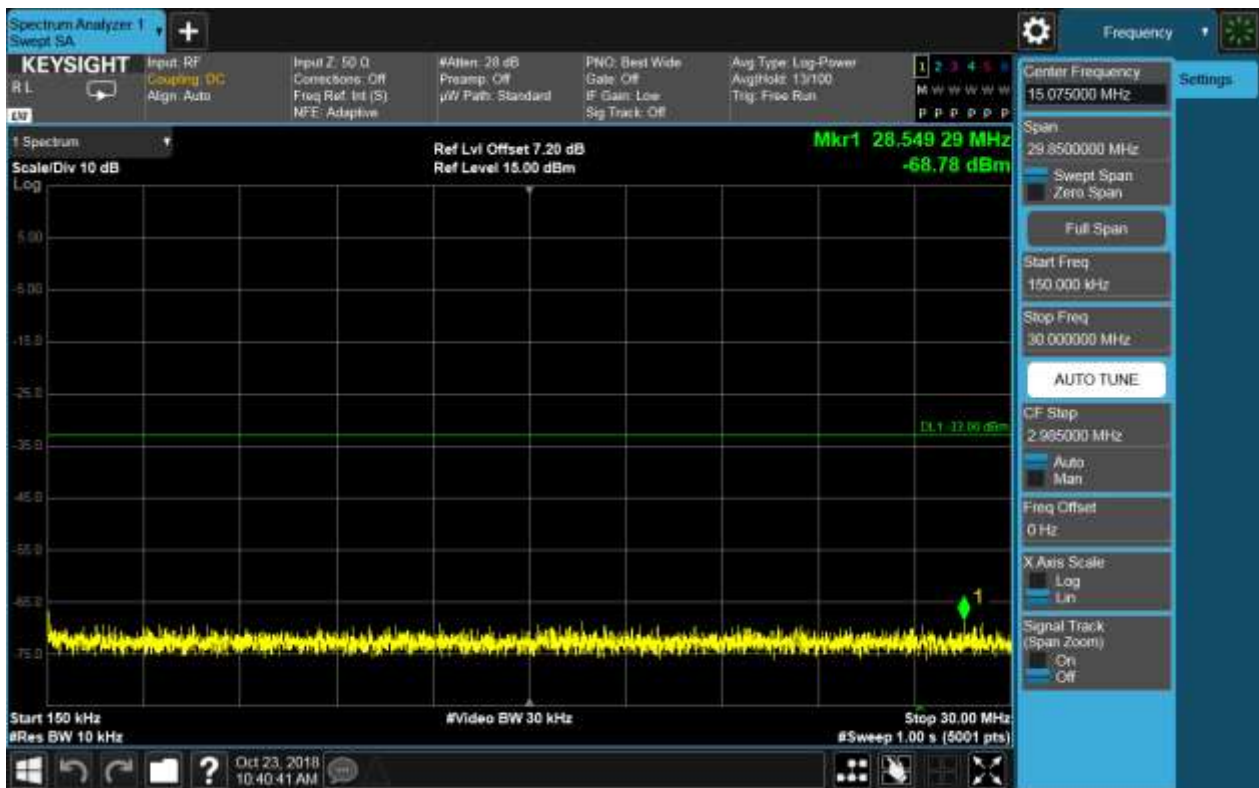


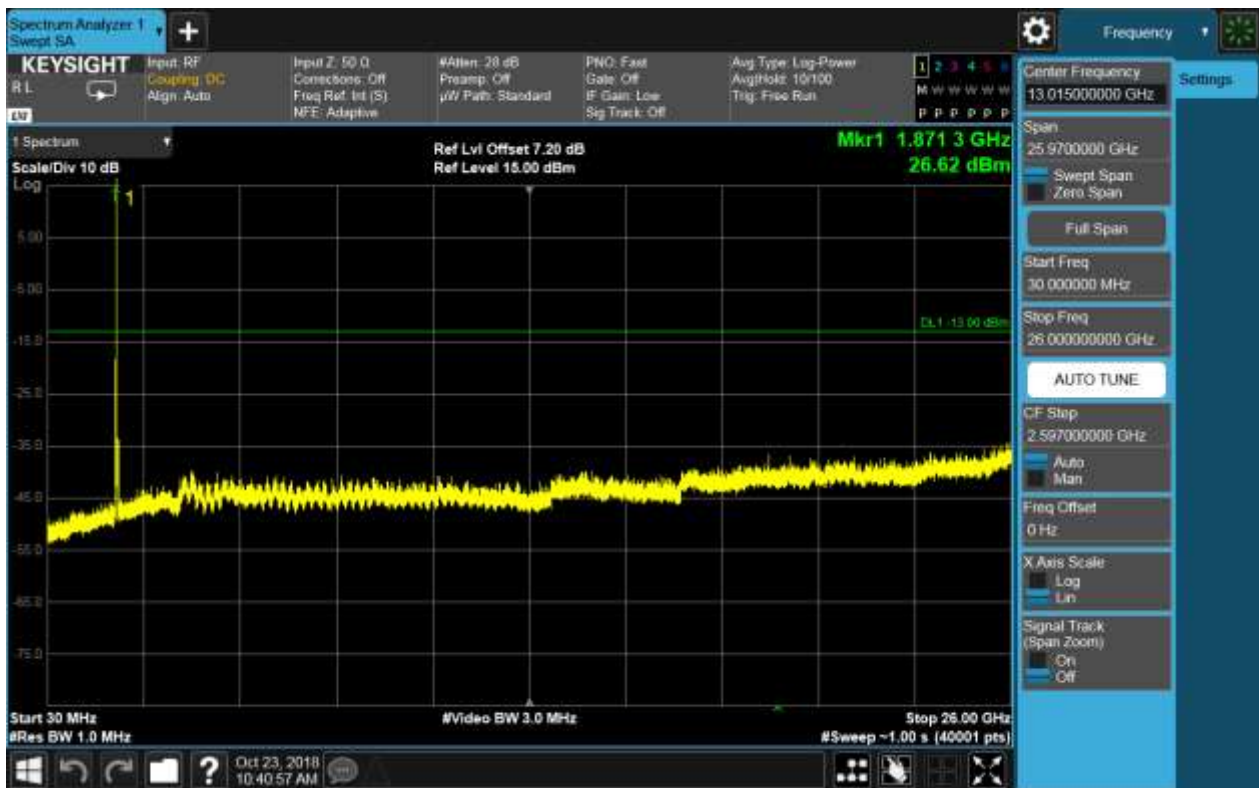


6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0





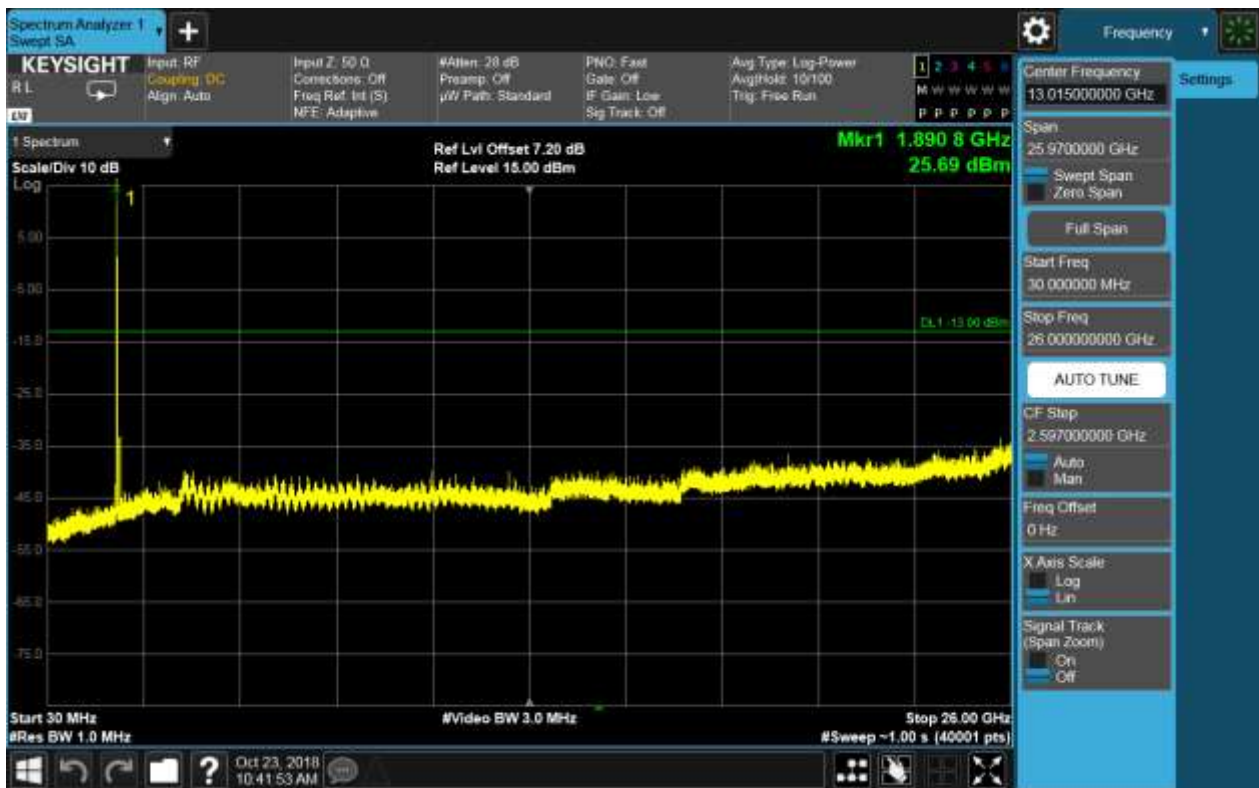


6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 Test RB = RB1#0







7Appendix_G: Frequency Stability

7.1 For LTE

7.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
B2	LTE/TM1	1.4	LCH	TN	VL	0.01	0.00001	PASS
					VN	7.85	0.00424	PASS
					VH	13.03	0.00704	PASS
			MCH	TN	VL	15.88	0.00845	PASS
					VN	-7.38	-0.00393	PASS
					VH	-15.26	-0.00812	PASS
			HCH	TN	VL	-18.51	-0.00969	PASS
					VN	6.12	0.00321	PASS
					VH	-6.31	-0.0033	PASS
		3	LCH	TN	VL	-6.59	-0.00356	PASS
					VN	-6.69	-0.00361	PASS
					VH	-6.51	-0.00352	PASS
			MCH	TN	VL	8.43	0.00448	PASS
					VN	0.37	0.0002	PASS
					VH	0.2	0.00011	PASS
			HCH	TN	VL	-0.89	-0.00047	PASS
					VN	-4.66	-0.00244	PASS
					VH	1.13	0.00059	PASS
		5	LCH	TN	VL	-2.68	-0.00145	PASS
					VN	-2.17	-0.00117	PASS
					VH	-5.05	-0.00273	PASS
			MCH	TN	VL	6.78	0.00361	PASS
					VN	-5.58	-0.00297	PASS
					VH	-2.39	-0.00127	PASS
			HCH	TN	VL	1.54	0.00081	PASS
					VN	3.16	0.00166	PASS
					VH	-3.29	-0.00172	PASS
		10	LCH	TN	VL	-0.24	-0.00013	PASS



				TN	VN	-2.4	-0.00129	PASS	
					VH	-2.62	-0.00141	PASS	
					VL	1.67	0.00089	PASS	
					VN	-4.39	-0.00234	PASS	
					VH	-1.72	-0.00091	PASS	
					VL	-0.37	-0.00019	PASS	
			HCH	TN	VN	2.56	0.00134	PASS	
					VH	2.46	0.00129	PASS	
					VL	-1.07	-0.00058	PASS	
					VN	-0.21	-0.00011	PASS	
					VH	-1.09	-0.00059	PASS	
					VL	-0.29	-0.00015	PASS	
		15	MCH	TN	VN	-0.1	-0.00005	PASS	
					VH	0.3	0.00016	PASS	
					VL	-1.93	-0.00101	PASS	
					VN	1.52	0.0008	PASS	
					VH	4.76	0.0025	PASS	
					VL	-20	-0.01075	PASS	
		20	LCH	TN	VN	-6.24	-0.00335	PASS	
					VH	13.43	0.00722	PASS	
					VL	-3.69	-0.00196	PASS	
			MCH	TN	VN	-2.85	-0.00152	PASS	
					VH	-1.67	-0.00089	PASS	
					VL	-3.58	-0.00188	PASS	
			HCH	TN	VN	-3.86	-0.00203	PASS	
					VH	-3.3	-0.00174	PASS	
		LTE/TM2	1.4	LCH	TN	VL	-2.75	-0.00149	PASS
						VN	7.88	0.00426	PASS
						VH	-13.25	-0.00716	PASS
				MCH	TN	VL	1.93	0.00103	PASS
						VN	1.62	0.00086	PASS
						VH	-9.33	-0.00496	PASS
	HCH			TN	VL	-6.47	-0.00339	PASS	
					VN	8.18	0.00428	PASS	
					VH	0.44	0.00023	PASS	
	3			LCH	TN	VL	5.28	0.00285	PASS
						VN	-13.78	-0.00744	PASS
						VH	-6.42	-0.00347	PASS
			MCH	TN	VL	-10.03	-0.00534	PASS	
					VN	2.68	0.00143	PASS	
					VH	0.13	0.00007	PASS	



			HCH	TN	VL	-3.78	-0.00198	PASS
					VN	-1.02	-0.00053	PASS
					VH	-3.3	-0.00173	PASS
		5	LCH	TN	VL	0.84	0.00045	PASS
					VN	-0.2	-0.00011	PASS
					VH	-2.68	-0.00145	PASS
			MCH	TN	VL	1.86	0.00099	PASS
					VN	-5.09	-0.00271	PASS
					VH	2.35	0.00125	PASS
			HCH	TN	VL	-2.26	-0.00118	PASS
					VN	-3.89	-0.00204	PASS
					VH	3.02	0.00158	PASS
		10	LCH	TN	VL	-0.11	-0.00006	PASS
					VN	0.43	0.00023	PASS
					VH	-0.03	-0.00002	PASS
			MCH	TN	VL	0.9	0.00048	PASS
					VN	-1.1	-0.00059	PASS
					VH	0.8	0.00043	PASS
			HCH	TN	VL	-2.98	-0.00156	PASS
					VN	3.53	0.00185	PASS
					VH	3.15	0.00165	PASS
		15	LCH	TN	VL	4.23	0.00228	PASS
					VN	-5.75	-0.0031	PASS
					VH	0.9	0.00048	PASS
			MCH	TN	VL	0.64	0.00034	PASS
					VN	-2.35	-0.00125	PASS
					VH	-0.73	-0.00039	PASS
			HCH	TN	VL	2.26	0.00119	PASS
					VN	-0.44	-0.00023	PASS
					VH	3.5	0.00184	PASS
		20	LCH	TN	VL	-1.43	-0.00077	PASS
					VN	1.73	0.00093	PASS
					VH	-0.47	-0.00025	PASS
			MCH	TN	VL	-2.85	-0.00152	PASS
					VN	-0.29	-0.00015	PASS
					VH	0.36	0.00019	PASS
			HCH	TN	VL	-3.29	-0.00173	PASS
					VN	-3.46	-0.00182	PASS
					VH	-2.26	-0.00119	PASS

7.1.2 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
B2	LTE/TM1	1.4	LCH	VN	-30	-23.27	-0.01257	PASS
					-20	-3.12	-0.00169	PASS
					-10	-9.53	-0.00515	PASS
					0	-6.65	-0.00359	PASS
					10	3.19	0.00172	PASS
					20	4.51	0.00244	PASS
					30	-14.59	-0.00788	PASS
					40	9.94	0.00537	PASS
					50	-3.26	-0.00176	PASS
			MCH	VN	-30	-11.79	-0.00627	PASS
					-20	-7.02	-0.00373	PASS
					-10	-19.14	-0.01018	PASS
					0	0.33	0.00018	PASS
					10	9.27	0.00493	PASS
					20	-4.85	-0.00258	PASS
					30	-8.94	-0.00476	PASS
					40	-14.31	-0.00761	PASS
					50	-12.67	-0.00674	PASS
			HCH	VN	-30	1.99	0.00104	PASS
					-20	11.89	0.00623	PASS
					-10	20.66	0.01082	PASS
					0	18.32	0.0096	PASS
					10	12.06	0.00632	PASS
					20	-1.67	-0.00087	PASS
					30	0.64	0.00034	PASS
					40	-2.57	-0.00135	PASS
					50	23.03	0.01206	PASS
		3	LCH	VN	-30	-9.26	-0.005	PASS
					-20	-6.84	-0.00369	PASS
					-10	-9.53	-0.00515	PASS
					0	-5.44	-0.00294	PASS
					10	-8.73	-0.00472	PASS
					20	-9.37	-0.00506	PASS
					30	1.2	0.00065	PASS



					40	-4.95	-0.00267	PASS
					50	-2.63	-0.00142	PASS
			MCH	VN	-30	-2.07	-0.0011	PASS
					-20	3.06	0.00163	PASS
					-10	-8.21	-0.00437	PASS
					0	-1.04	-0.00055	PASS
					10	-1.99	-0.00106	PASS
					20	-9.41	-0.00501	PASS
					30	6.74	0.00359	PASS
					40	1.66	0.00088	PASS
					50	-10.84	-0.00577	PASS
			HCH	VN	-30	-4.13	-0.00216	PASS
					-20	-4.16	-0.00218	PASS
					-10	-0.93	-0.00049	PASS
					0	-3.26	-0.00171	PASS
					10	-5.34	-0.0028	PASS
					20	2.79	0.00146	PASS
					30	-0.72	-0.00038	PASS
					40	-0.92	-0.00048	PASS
			LCH	VN	50	5.81	0.00304	PASS
					-30	2.63	0.00142	PASS
					-20	-5.35	-0.00289	PASS
					-10	-1.69	-0.00091	PASS
					0	-1.97	-0.00106	PASS
					10	-2.53	-0.00137	PASS
					20	1.56	0.00084	PASS
					30	1.85	0.001	PASS
					40	-0.73	-0.00039	PASS
					50	1.3	0.0007	PASS
		5	MCH	VN	-30	0.62	0.00033	PASS
					-20	-4.61	-0.00245	PASS
					-10	7.17	0.00381	PASS
					0	-13.66	-0.00727	PASS
					10	5.99	0.00319	PASS
					20	-0.33	-0.00018	PASS
					30	1.34	0.00071	PASS
					40	3.6	0.00191	PASS
					50	-4.65	-0.00247	PASS
			HCH	VN	-30	4.19	0.0022	PASS



					-20	1.6	0.00084	PASS
					-10	26.64	0.01397	PASS
					0	-0.43	-0.00023	PASS
					10	3.81	0.002	PASS
					20	2.2	0.00115	PASS
					30	-0.03	-0.00002	PASS
					40	-4.38	-0.0023	PASS
					50	0.5	0.00026	PASS
		10	LCH	VN	-30	2.46	0.00133	PASS
					-20	-0.06	-0.00003	PASS
					-10	-0.21	-0.00011	PASS
					0	0.1	0.00005	PASS
					10	1.09	0.00059	PASS
					20	-0.33	-0.00018	PASS
					30	0.51	0.00027	PASS
					40	0.57	0.00031	PASS
					50	1.92	0.00104	PASS
			MCH	VN	-30	-3	-0.0016	PASS
					-20	-3.16	-0.00168	PASS
					-10	-1.12	-0.0006	PASS
					0	1.63	0.00087	PASS
					10	2.75	0.00146	PASS
					20	-3.22	-0.00171	PASS
					30	-0.06	-0.00003	PASS
					40	-3.76	-0.002	PASS
					50	-6.69	-0.00356	PASS
			HCH	VN	-30	0.57	0.0003	PASS
					-20	4.84	0.00254	PASS
					-10	0.6	0.00031	PASS
					0	-1.42	-0.00075	PASS
					10	0.82	0.00043	PASS
					20	1.9	0.001	PASS
					30	1.72	0.0009	PASS
					40	-1.1	-0.00058	PASS
					50	0.46	0.00024	PASS
		15	LCH	VN	-30	2.46	0.00132	PASS
					-20	-1.87	-0.00101	PASS
					-10	1.72	0.00093	PASS
					0	0.1	0.00005	PASS



					10	1.76	0.00095	PASS
					20	0.46	0.00025	PASS
					30	0.57	0.00031	PASS
					40	0.5	0.00027	PASS
					50	-0.69	-0.00037	PASS
			MCH	VN	-30	-1.77	-0.00094	PASS
					-20	1.79	0.00095	PASS
					-10	-3.86	-0.00205	PASS
					0	-3.19	-0.0017	PASS
					10	-5.79	-0.00308	PASS
					20	-1.77	-0.00094	PASS
					30	-3.06	-0.00163	PASS
					40	-3.49	-0.00186	PASS
					50	-2.42	-0.00129	PASS
			HCH	VN	-30	-2.73	-0.00143	PASS
					-20	1.93	0.00101	PASS
					-10	2.12	0.00111	PASS
					0	3.43	0.0018	PASS
					10	3.91	0.00206	PASS
		20			20	0.9	0.00047	PASS
					30	-0.59	-0.00031	PASS
					40	0.36	0.00019	PASS
					50	2.57	0.00135	PASS
			LCH	VN	-30	2.03	0.00109	PASS
					-20	-3.4	-0.00183	PASS
					-10	0.57	0.00031	PASS
					0	1.53	0.00082	PASS
					10	3.28	0.00176	PASS
					20	0.17	0.00009	PASS
					30	0.77	0.00041	PASS
					40	-0.44	-0.00024	PASS
					50	2.59	0.00139	PASS
			MCH	VN	-30	-0.89	-0.00047	PASS
					-20	-1.09	-0.00058	PASS
					-10	-1.46	-0.00078	PASS
					0	-1.07	-0.00057	PASS
					10	-2.62	-0.00139	PASS
					20	-3.55	-0.00189	PASS
					30	-3.66	-0.00195	PASS



			HCH	VN	40	0.03	0.00002	PASS
					50	-1.39	-0.00074	PASS
					-30	-3.08	-0.00162	PASS
					-20	-3.62	-0.00191	PASS
					-10	-2.86	-0.00151	PASS
					0	0.27	0.00014	PASS
					10	-3.62	-0.00191	PASS
					20	-4.16	-0.00219	PASS
					30	-2.55	-0.00134	PASS
					40	-3.46	-0.00182	PASS
					50	-4.51	-0.00237	PASS
	LTE/TM2	1.4	LCH	VN	-30	23.3	0.01259	PASS
					-20	-12.09	-0.00653	PASS
					-10	-3.2	-0.00173	PASS
					0	9.2	0.00497	PASS
					10	15.96	0.00862	PASS
					20	3.65	0.00197	PASS
					30	-24.79	-0.01339	PASS
					40	2.59	0.0014	PASS
					50	12.55	0.00678	PASS
			MCH	VN	-30	-10.06	-0.00535	PASS
					-20	6.18	0.00329	PASS
					-10	1.8	0.00096	PASS
					0	-4.18	-0.00222	PASS
					10	3.46	0.00184	PASS
					20	-1.52	-0.00081	PASS
					30	-5.84	-0.00311	PASS
					40	-3.99	-0.00212	PASS
					50	-10.41	-0.00554	PASS
			HCH	VN	-30	16.12	0.00844	PASS
					-20	-14.86	-0.00778	PASS
					-10	-9.81	-0.00514	PASS
					0	-0.24	-0.00013	PASS
					10	-11.34	-0.00594	PASS
					20	-2.42	-0.00127	PASS
					30	-4.99	-0.00261	PASS
					40	-5.21	-0.00273	PASS
					50	12.46	0.00653	PASS
		3	LCH	VN	-30	-6.22	-0.00336	PASS



					-20	-0.9	-0.00049	PASS
					-10	1.42	0.00077	PASS
					0	-9.54	-0.00515	PASS
					10	-11.13	-0.00601	PASS
					20	-10.76	-0.00581	PASS
					30	-0.83	-0.00045	PASS
					40	-3.53	-0.00191	PASS
					50	1.82	0.00098	PASS
			MCH	VN	-30	-4.75	-0.00253	PASS
					-20	3.71	0.00197	PASS
					-10	-6.21	-0.0033	PASS
					0	-2.49	-0.00132	PASS
					10	-2.45	-0.0013	PASS
					20	-3.85	-0.00205	PASS
					30	0.16	0.00009	PASS
					40	4.23	0.00225	PASS
					50	-7.52	-0.004	PASS
			HCH	VN	-30	4.03	0.00211	PASS
					-20	2.63	0.00138	PASS
					-10	1.29	0.00068	PASS
					0	-0.39	-0.0002	PASS
					10	-3.62	-0.0019	PASS
					20	1.5	0.00079	PASS
					30	1.3	0.00068	PASS
					40	-0.94	-0.00049	PASS
					50	3.59	0.00188	PASS
		5	LCH	VN	-30	0.16	0.00009	PASS
					-20	-0.47	-0.00025	PASS
					-10	-1.93	-0.00104	PASS
					0	2.79	0.00151	PASS
					10	1.83	0.00099	PASS
					20	-3.35	-0.00181	PASS
					30	0.16	0.00009	PASS
					40	-0.63	-0.00034	PASS
					50	0.16	0.00009	PASS
			MCH	VN	-30	-0.86	-0.00046	PASS
					-20	-2.95	-0.00157	PASS
					-10	-4.19	-0.00223	PASS
					0	3.3	0.00176	PASS



					10	3.48	0.00185	PASS
					20	-3.13	-0.00166	PASS
					30	-3.18	-0.00169	PASS
					40	-11.89	-0.00632	PASS
					50	0.66	0.00035	PASS
			HCH	VN	-30	0.62	0.00033	PASS
					-20	3.3	0.00173	PASS
					-10	-4.92	-0.00258	PASS
					0	2.29	0.0012	PASS
					10	11.66	0.00611	PASS
					20	-1.32	-0.00069	PASS
					30	-1.62	-0.00085	PASS
					40	1.16	0.00061	PASS
					50	4.66	0.00244	PASS
		10	LCH	VN	-30	-0.21	-0.00011	PASS
					-20	0.51	0.00027	PASS
					-10	-1.95	-0.00105	PASS
					0	-0.3	-0.00016	PASS
					10	0.5	0.00027	PASS
					20	0.67	0.00036	PASS
					30	-0.67	-0.00036	PASS
					40	3.29	0.00177	PASS
					50	0.96	0.00052	PASS
			MCH	VN	-30	-3.76	-0.002	PASS
					-20	-2.03	-0.00108	PASS
					-10	0.43	0.00023	PASS
					0	-1.44	-0.00077	PASS
					10	-2.07	-0.0011	PASS
					20	-1.79	-0.00095	PASS
					30	2.36	0.00126	PASS
					40	0.29	0.00015	PASS
					50	-2.92	-0.00155	PASS
			HCH	VN	-30	1.8	0.00094	PASS
					-20	2.13	0.00112	PASS
					-10	4.41	0.00231	PASS
					0	-3.25	-0.00171	PASS
					10	3.86	0.00203	PASS
					20	2.32	0.00122	PASS
					30	0.66	0.00035	PASS



					40	2.62	0.00138	PASS
					50	2.62	0.00138	PASS
		15	LCH	VN	-30	0.36	0.00019	PASS
					-20	2.55	0.00137	PASS
					-10	1	0.00054	PASS
					0	0.6	0.00032	PASS
					10	1.89	0.00102	PASS
					20	0.97	0.00052	PASS
					30	-0.29	-0.00016	PASS
					40	2.55	0.00137	PASS
					50	-0.23	-0.00012	PASS
			MCH	VN	-30	0.56	0.0003	PASS
					-20	-1.24	-0.00066	PASS
					-10	-0.63	-0.00034	PASS
					0	-3.55	-0.00189	PASS
					10	-2.59	-0.00138	PASS
					20	-1.12	-0.0006	PASS
					30	-4.22	-0.00224	PASS
					40	-3.5	-0.00186	PASS
					50	-0.16	-0.00009	PASS
			HCH	VN	-30	0.4	0.00021	PASS
					-20	0.89	0.00047	PASS
					-10	-2.56	-0.00135	PASS
					0	1.19	0.00063	PASS
					10	1.2	0.00063	PASS
					20	-0.76	-0.0004	PASS
					30	0.96	0.0005	PASS
					40	1.12	0.00059	PASS
					50	1.99	0.00105	PASS
		20	LCH	VN	-30	1.79	0.00096	PASS
					-20	0.96	0.00052	PASS
					-10	-4.32	-0.00232	PASS
					0	1.53	0.00082	PASS
					10	-2.43	-0.00131	PASS
					20	-1.19	-0.00064	PASS
					30	-0.89	-0.00048	PASS
					40	1.65	0.00089	PASS
					50	1.13	0.00061	PASS
			MCH	VN	-30	-0.76	-0.0004	PASS



					-20	-1.16	-0.00062	PASS
					-10	-0.27	-0.00014	PASS
					0	-1.49	-0.00079	PASS
					10	-2.65	-0.00141	PASS
					20	-1.17	-0.00062	PASS
					30	-2.25	-0.0012	PASS
					40	-3.33	-0.00177	PASS
					50	-4.32	-0.0023	PASS
			HCH	VN	-30	-2.55	-0.00134	PASS
					-20	-3.79	-0.00199	PASS
					-10	-5.31	-0.00279	PASS
					0	-2	-0.00105	PASS
					10	-1.3	-0.00068	PASS
					20	-0.77	-0.00041	PASS
					30	-1.42	-0.00075	PASS
					40	-2.32	-0.00122	PASS
					50	-1.9	-0.001	PASS

END