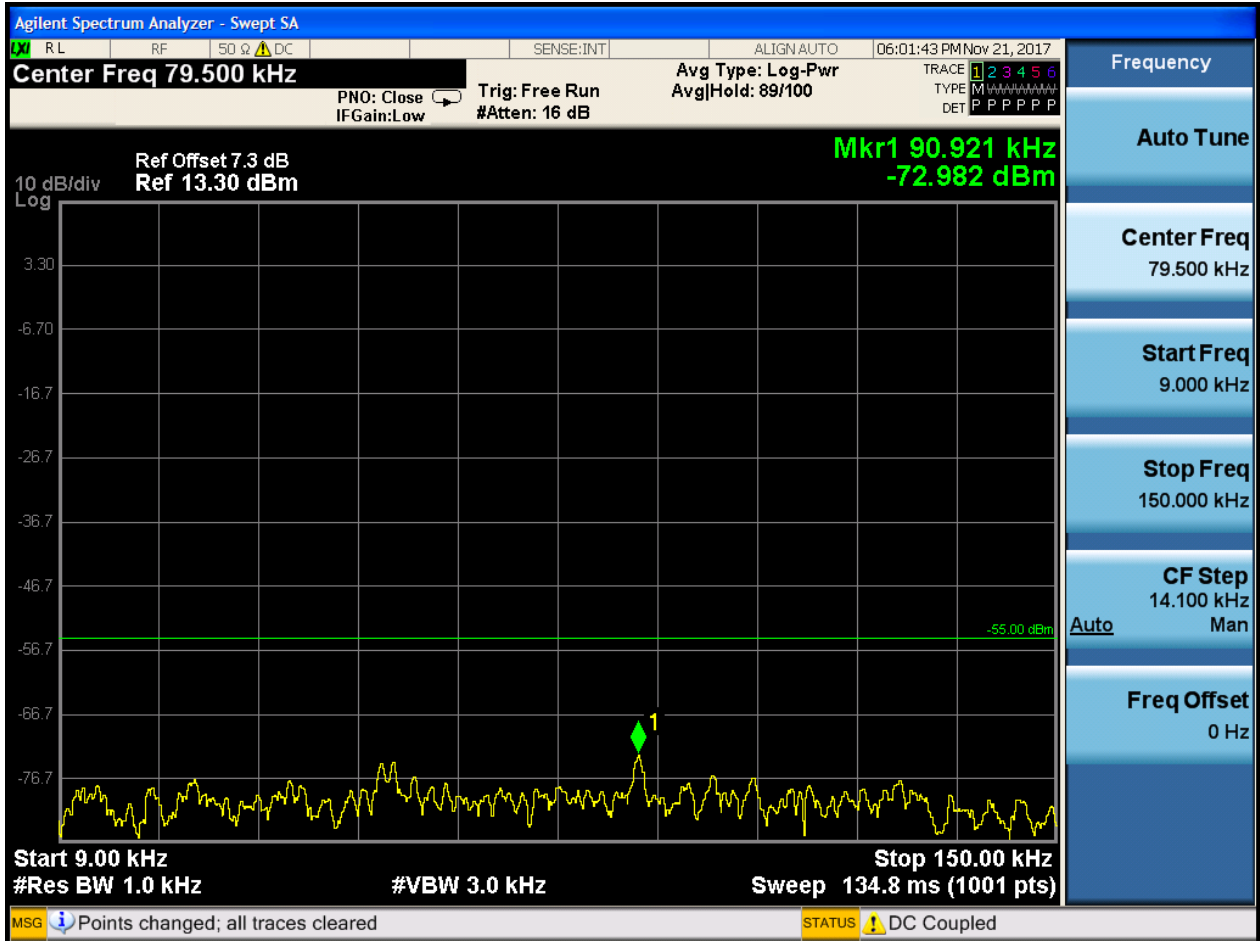
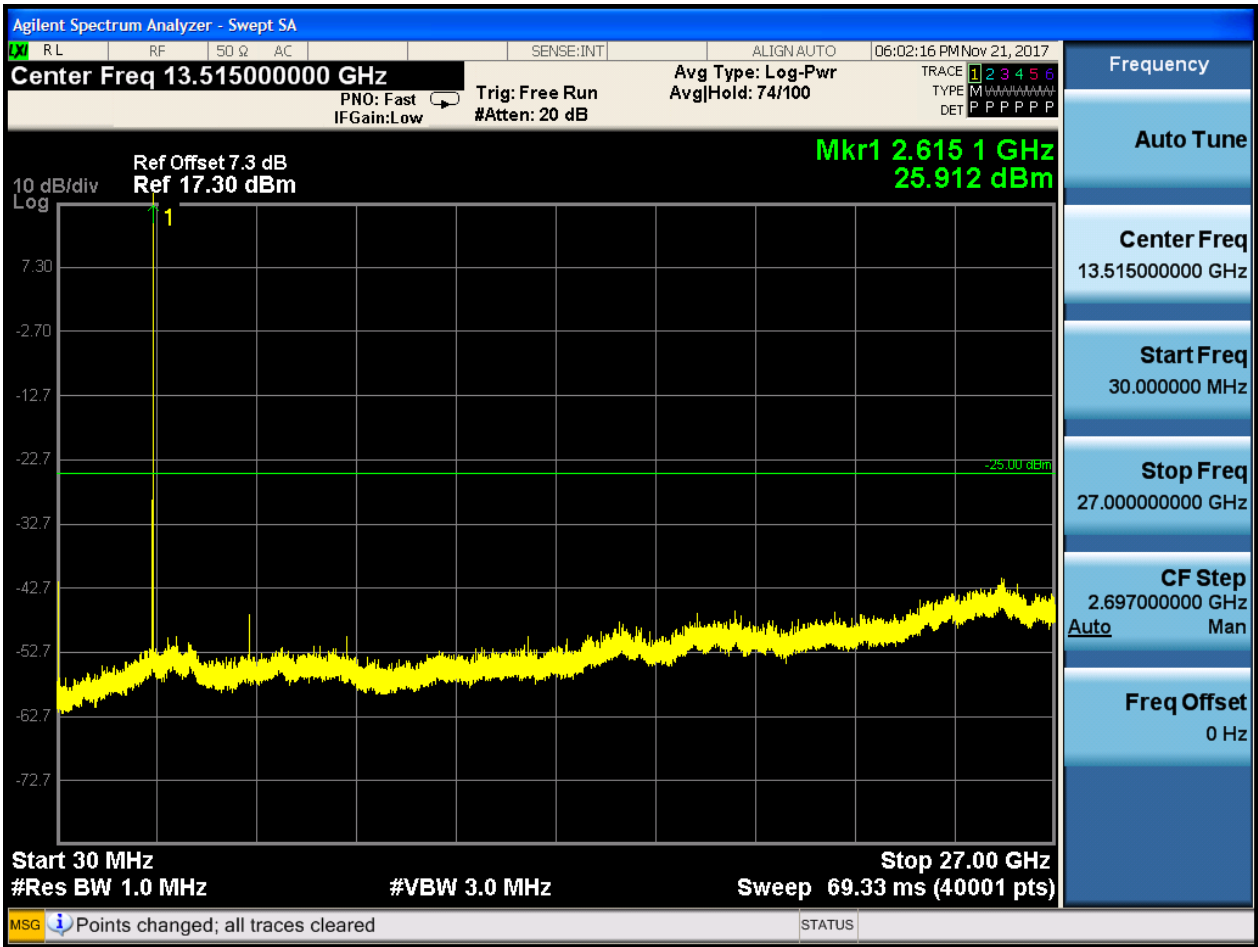




6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0



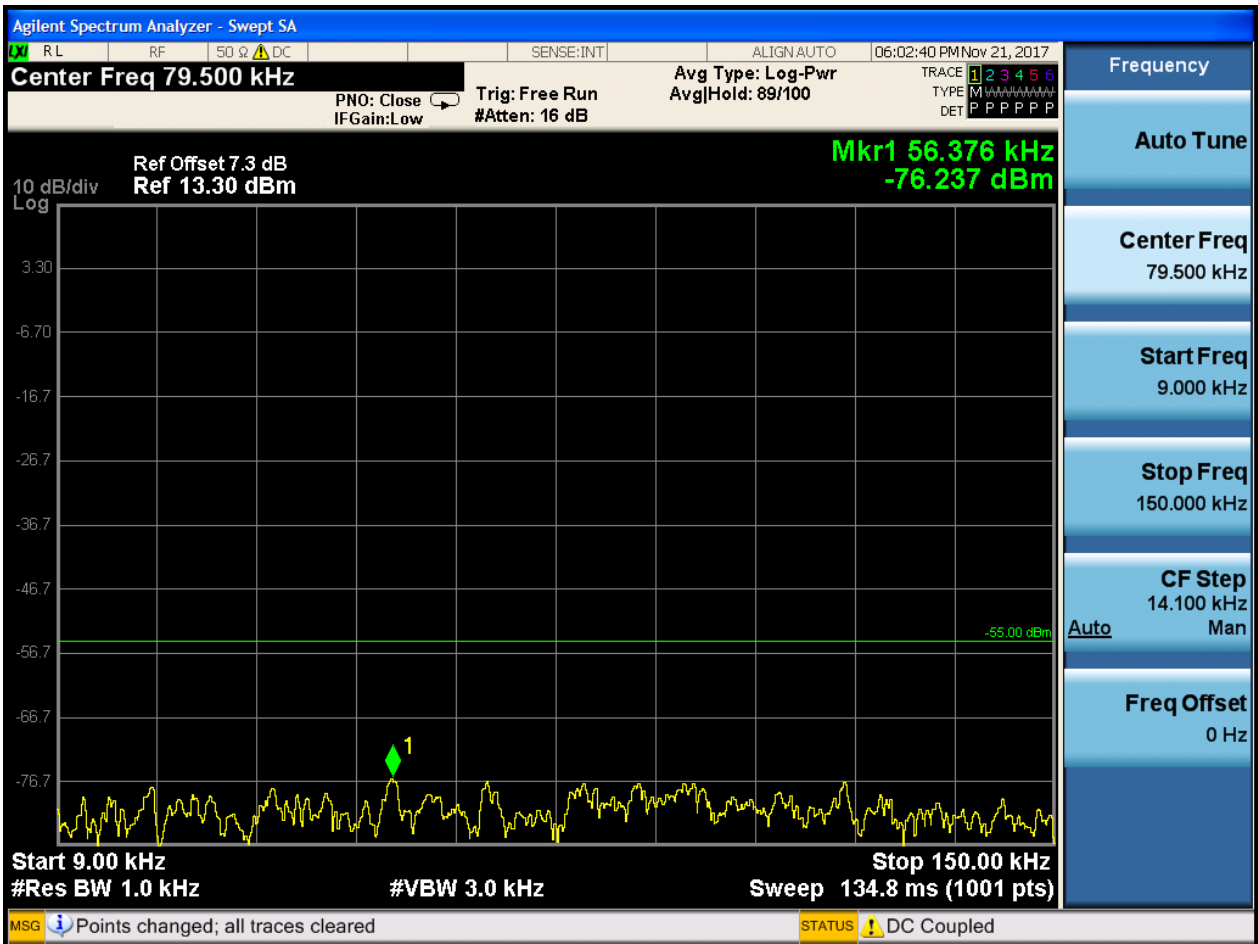


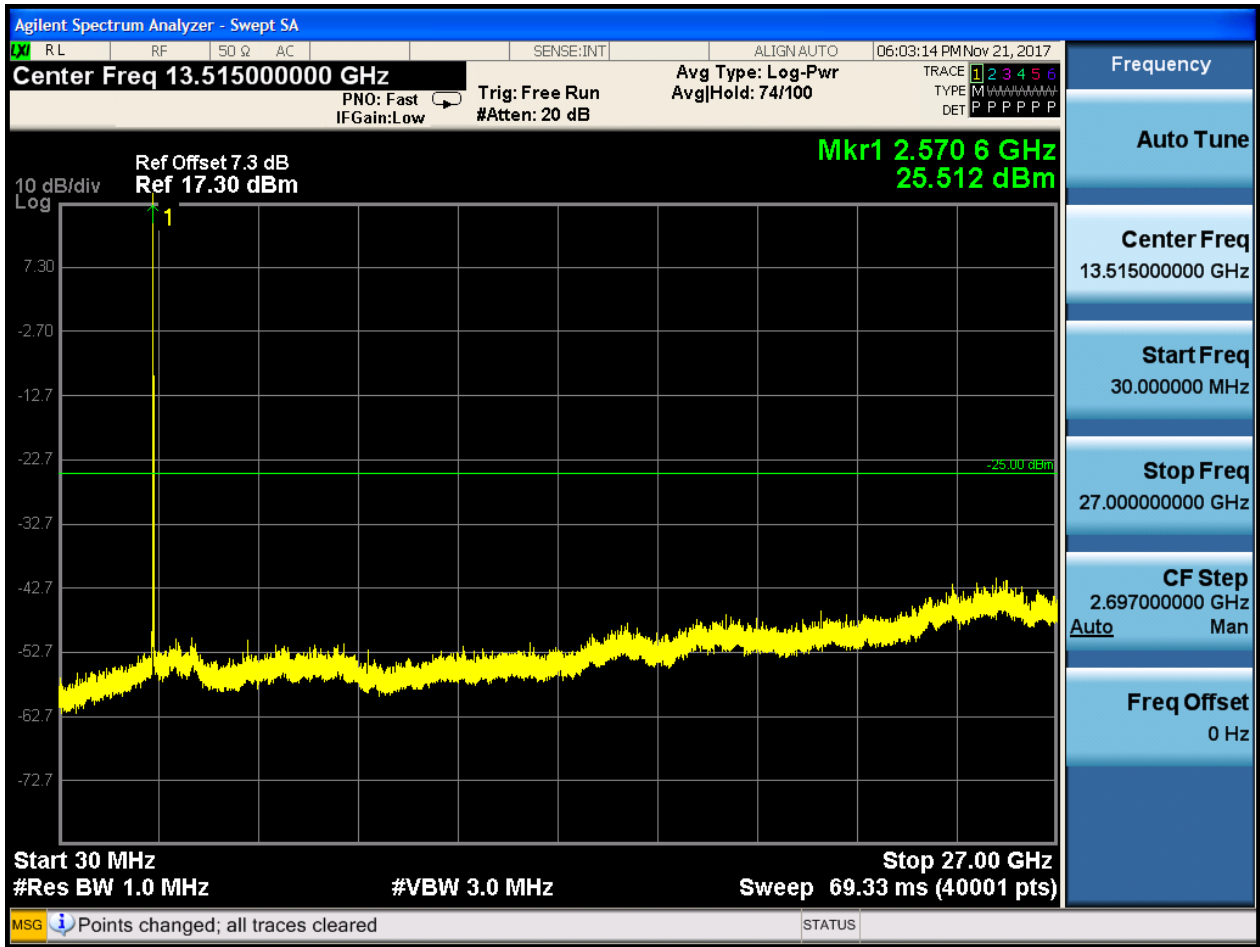


6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

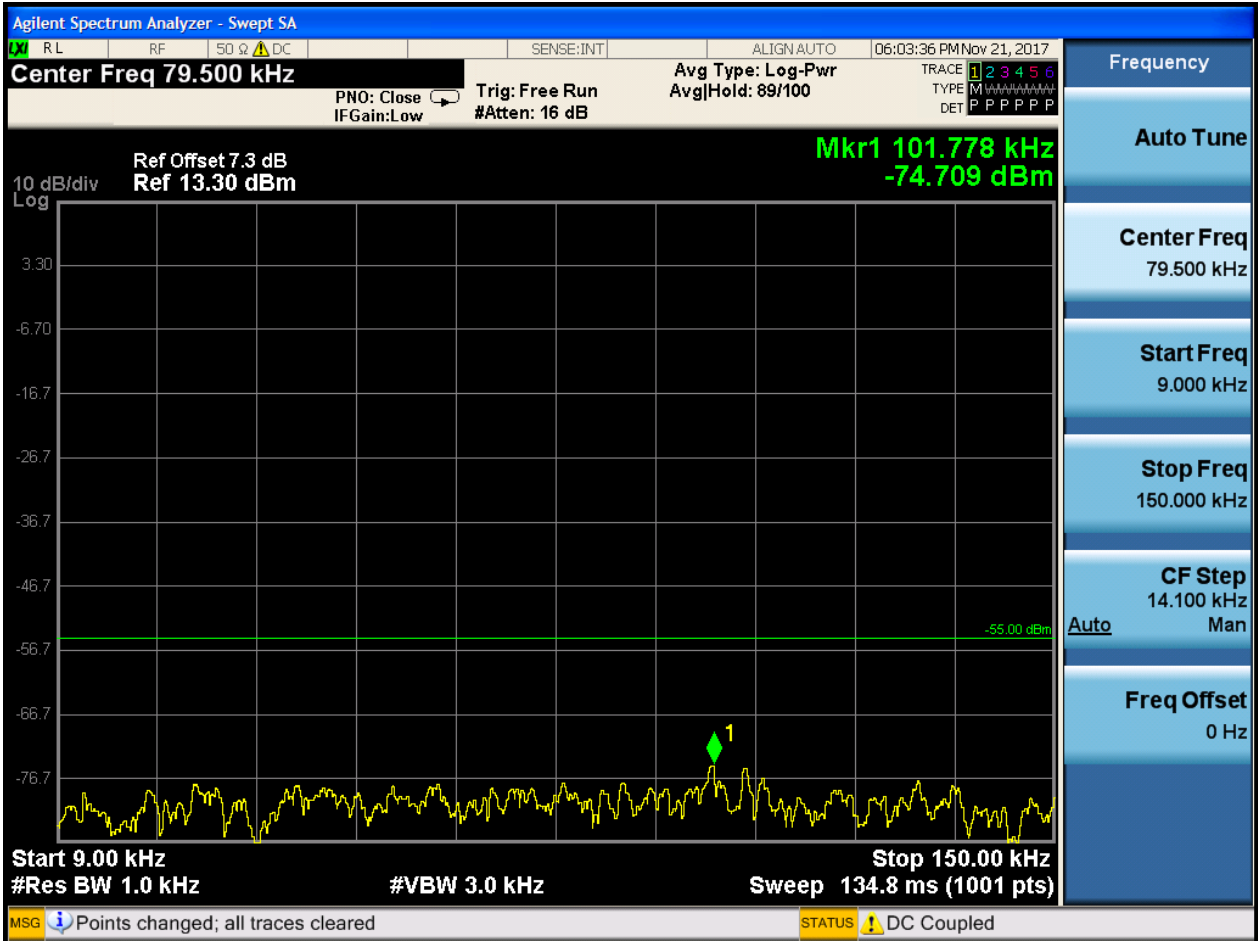






6.1.1.1.2.2 Test Channel = MCH

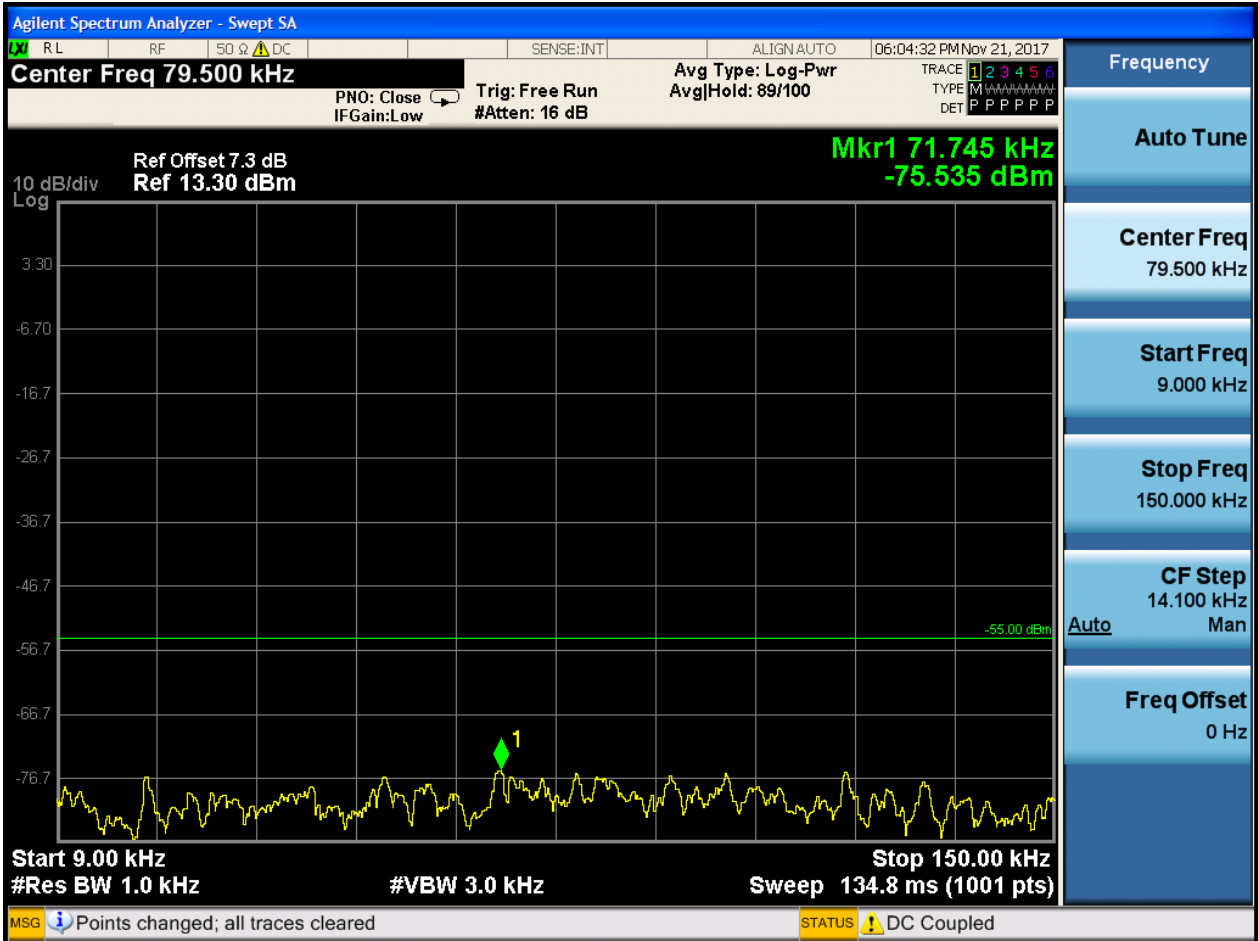
6.1.1.1.2.2.1 Test RB = RB1#0

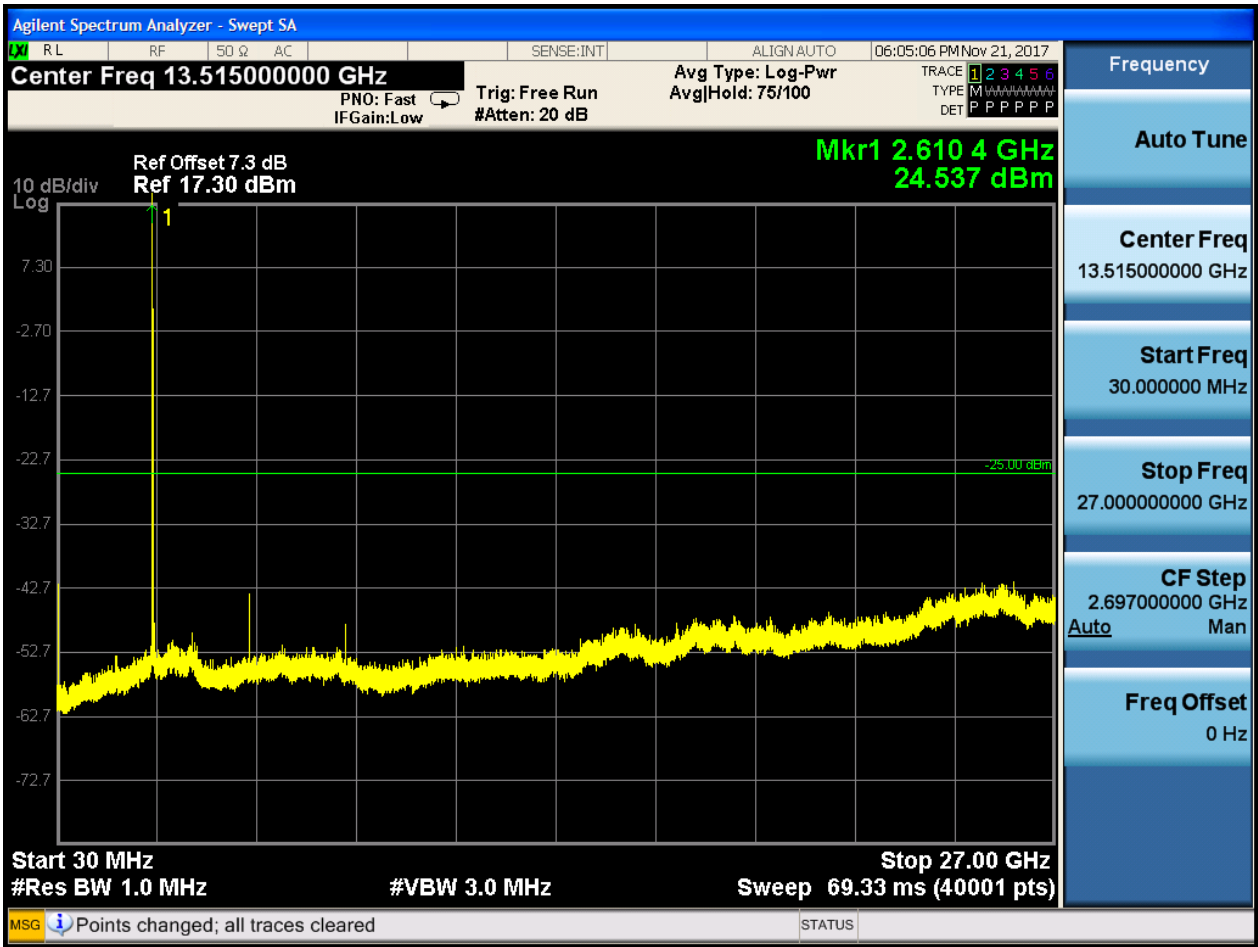




6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



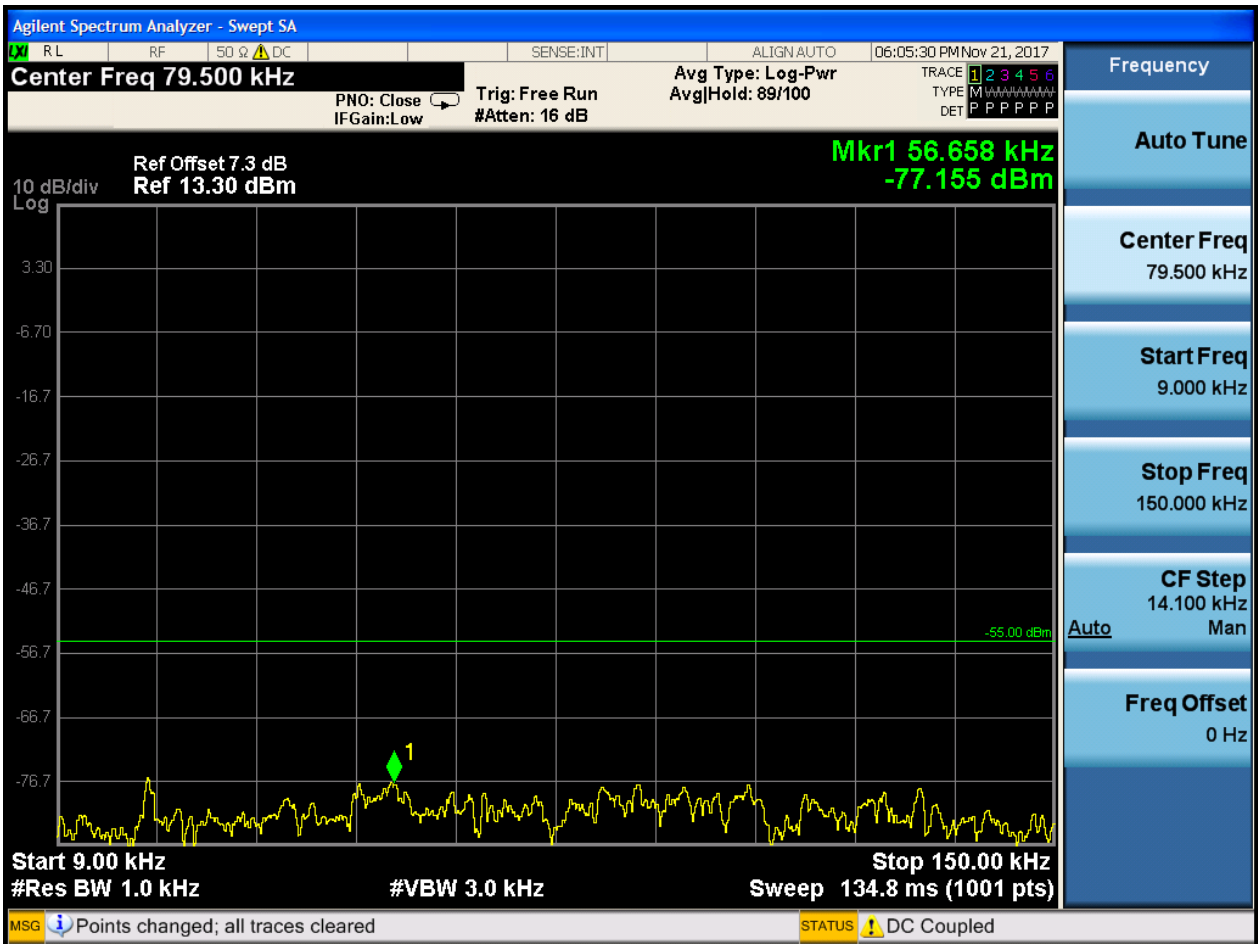




6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

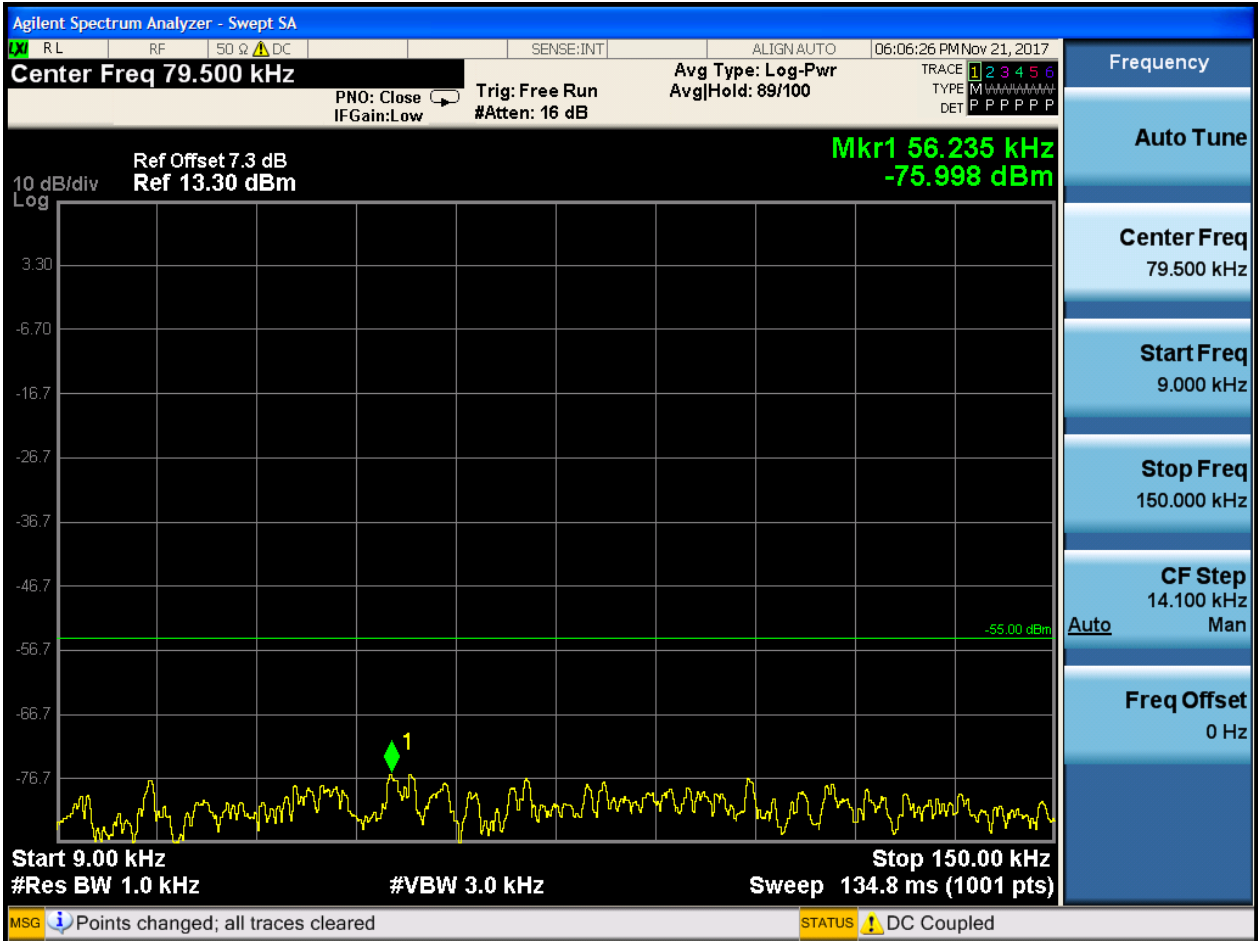
6.1.1.1.3.1.1 Test RB = RB1#0

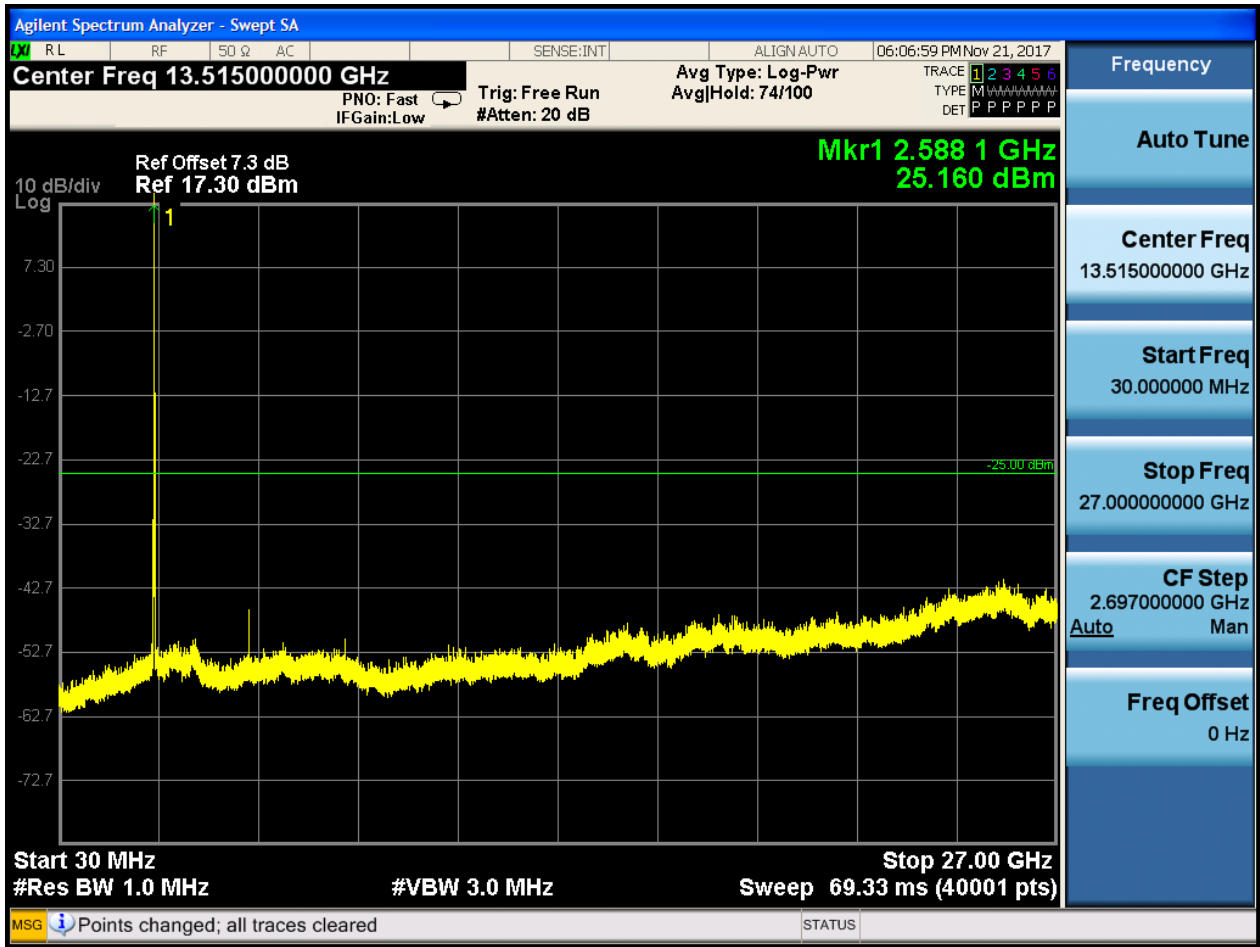




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

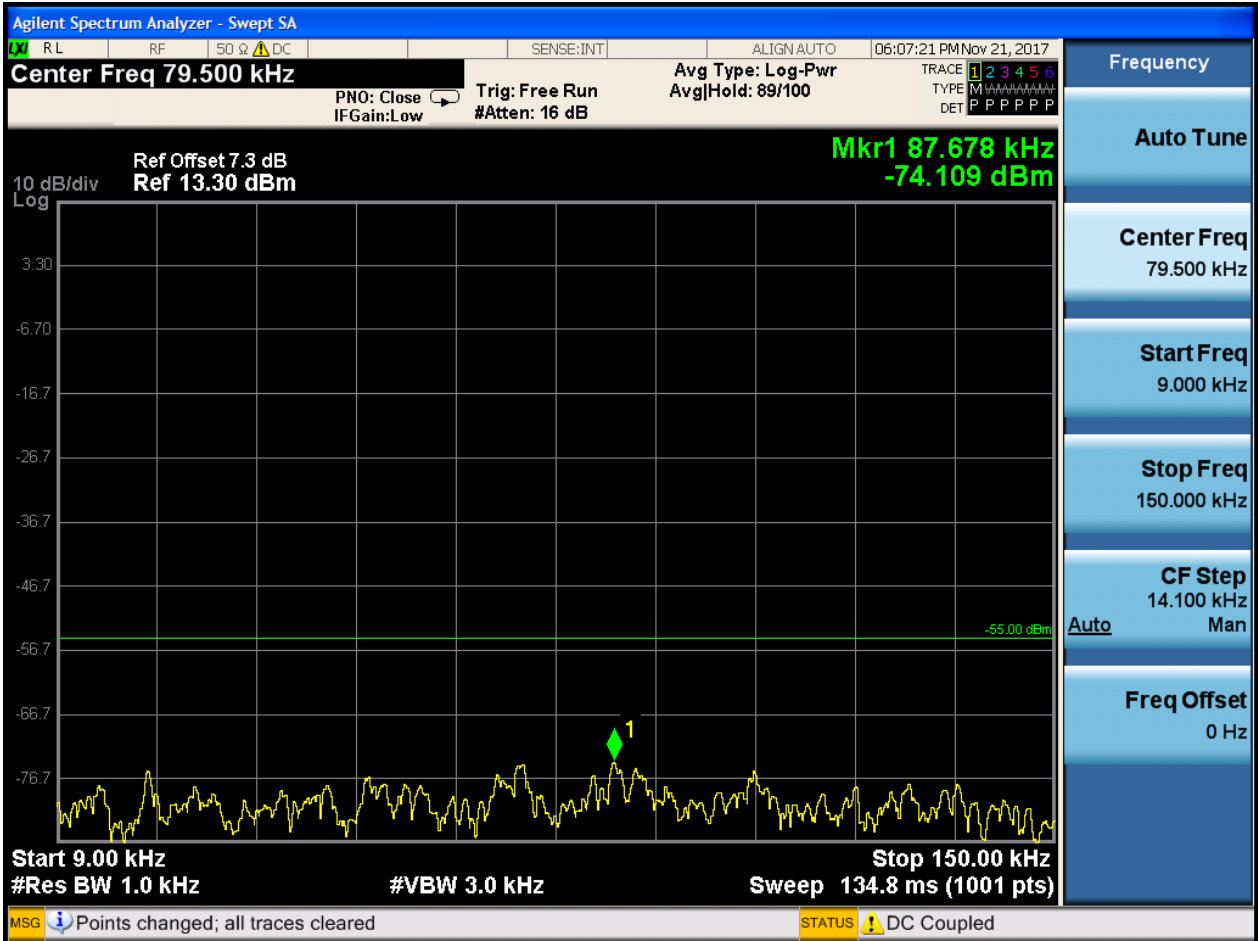






6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0

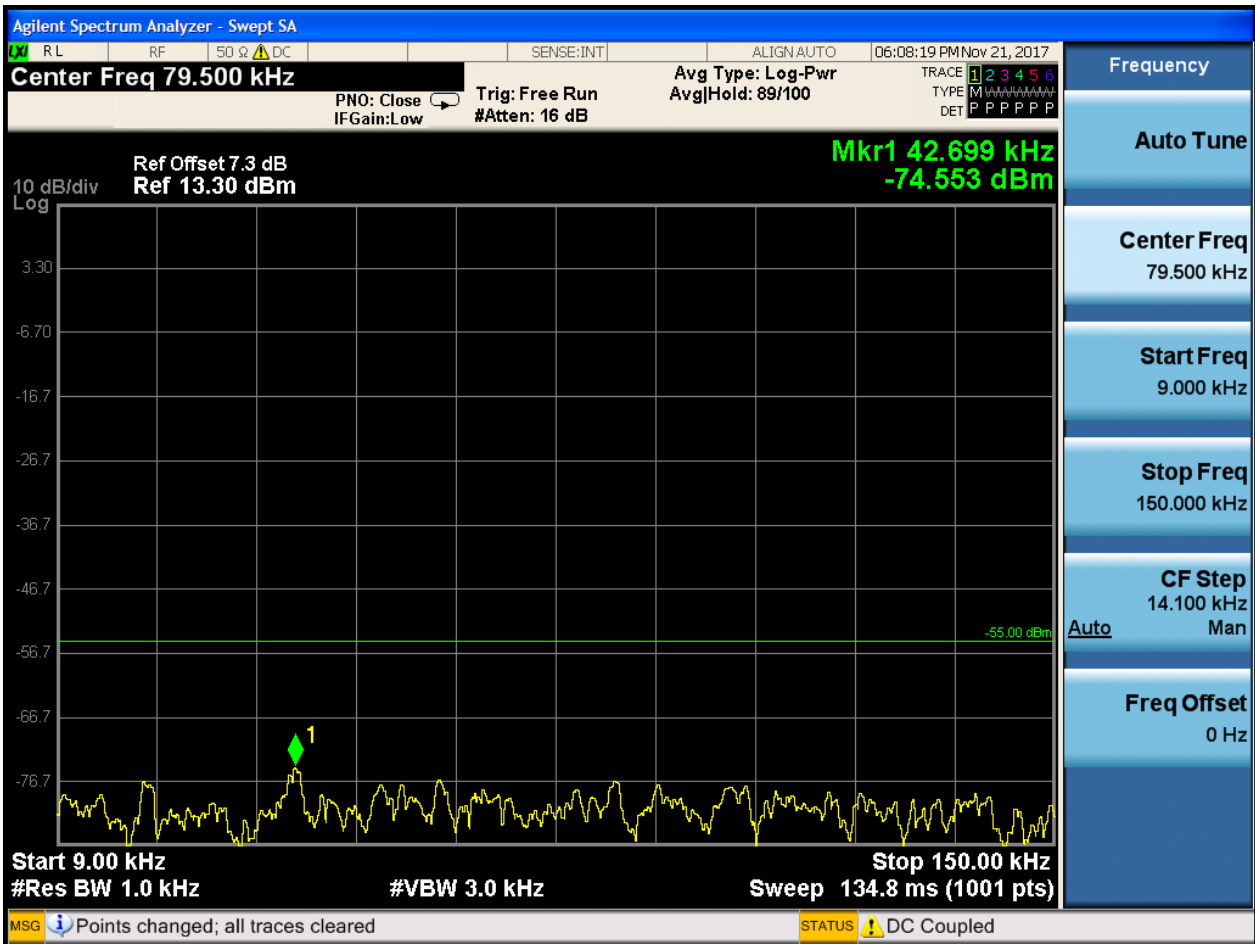


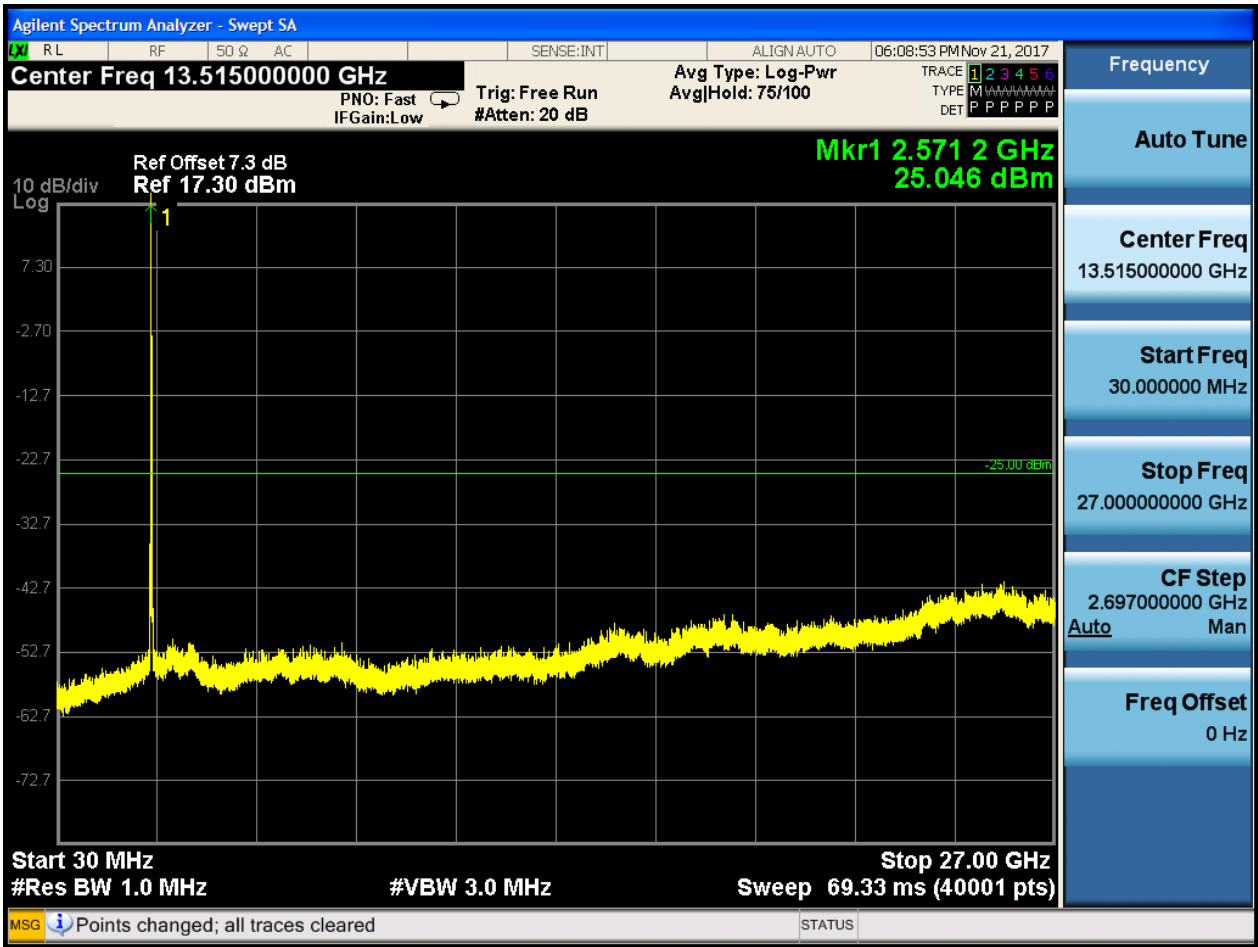


6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

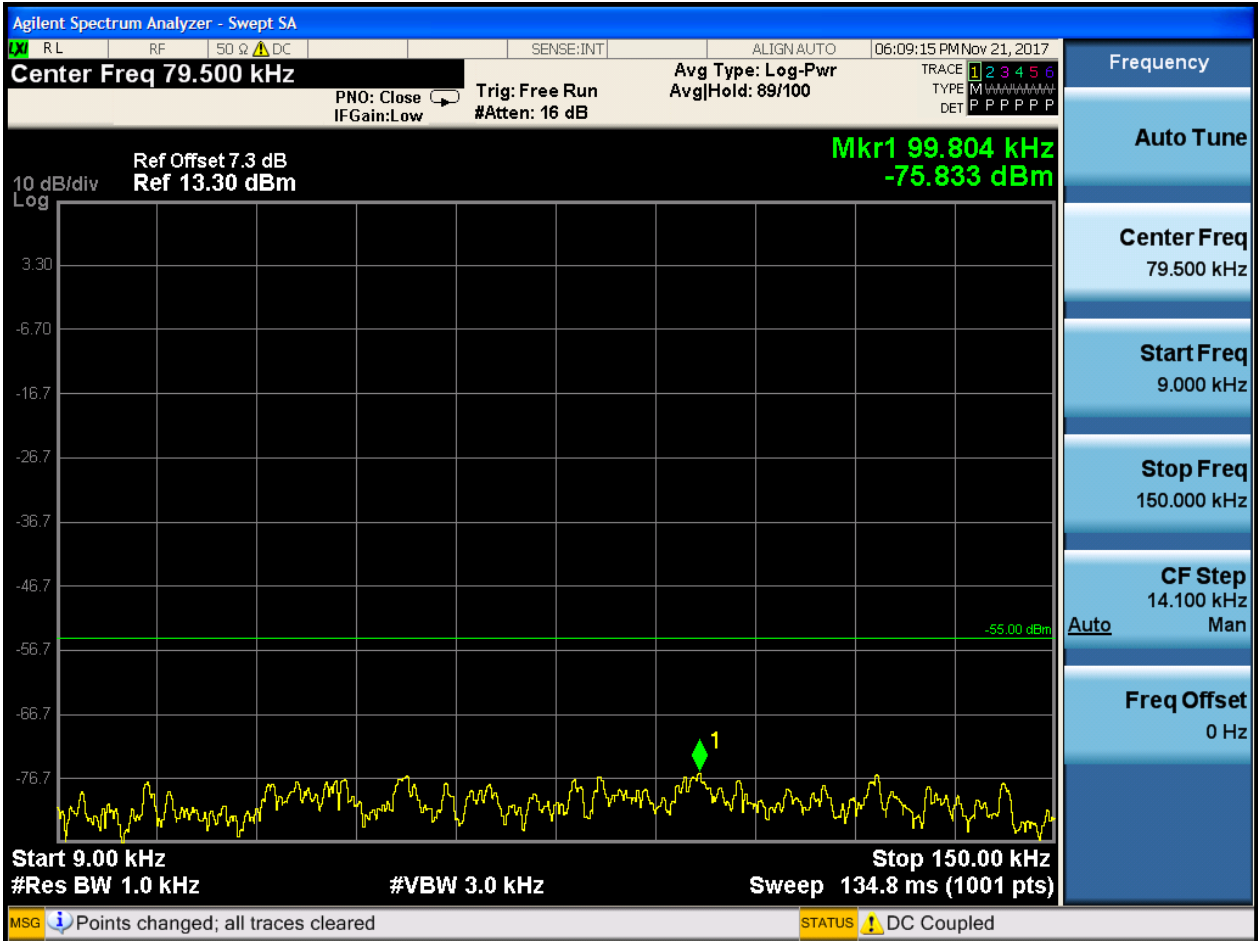


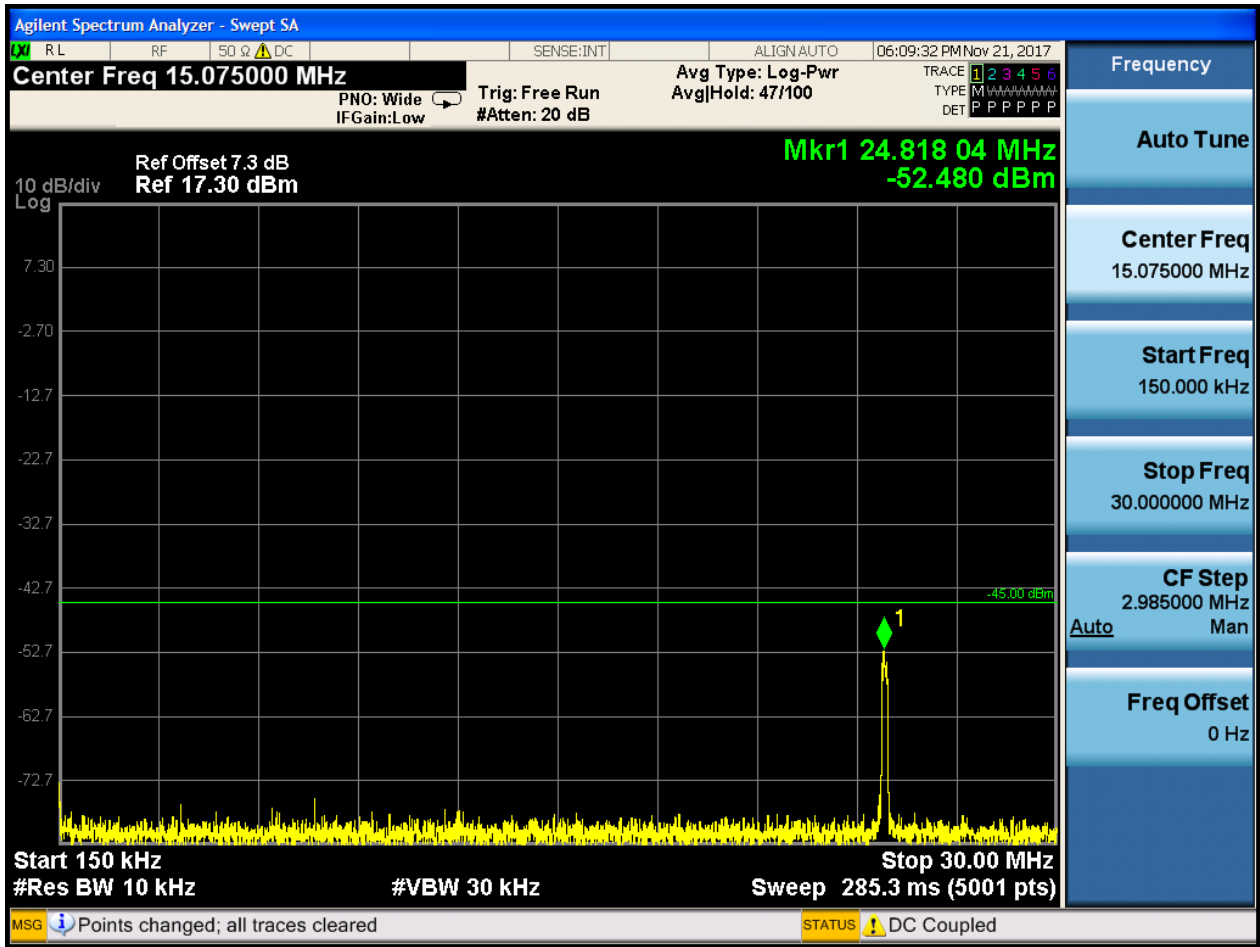




6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



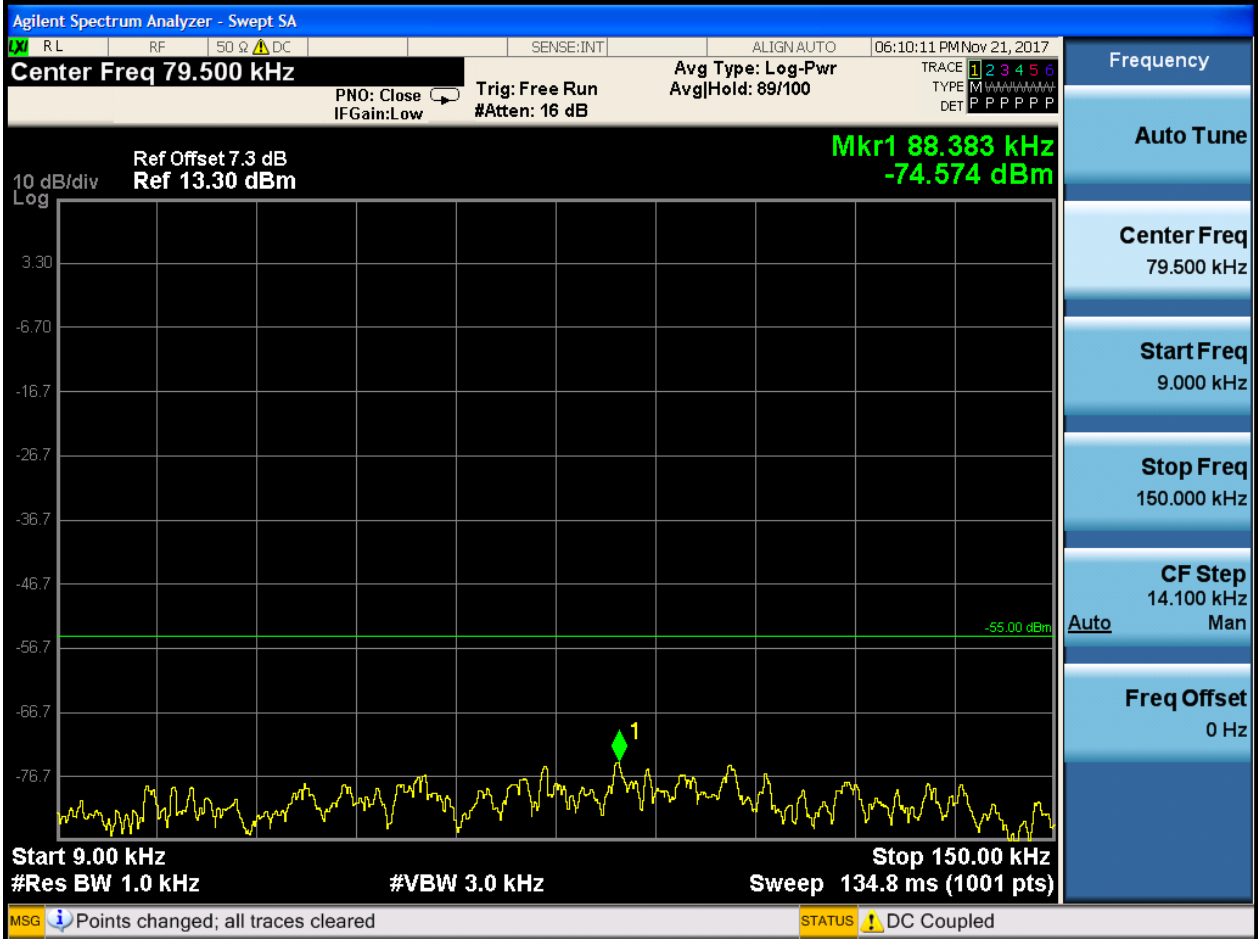


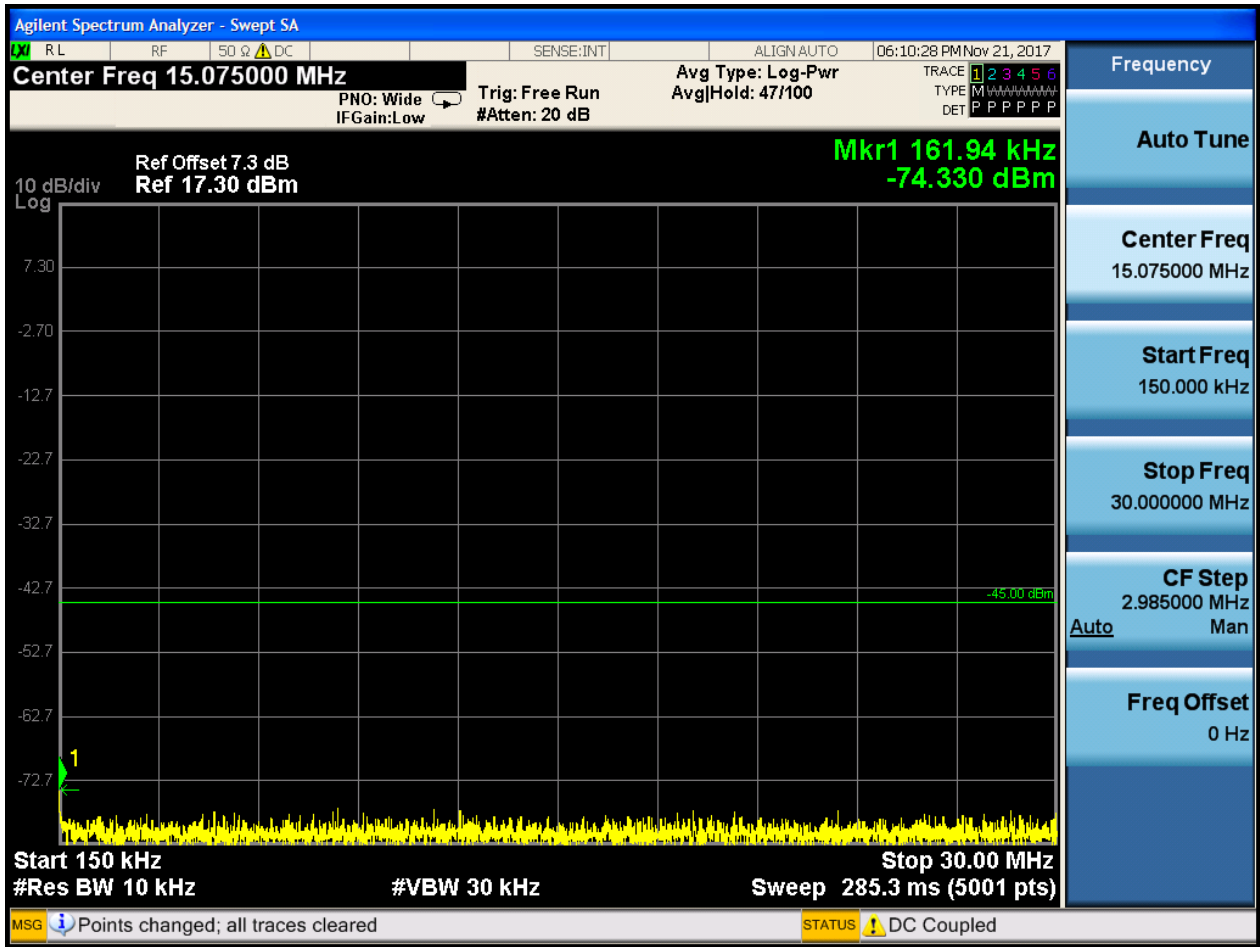




6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







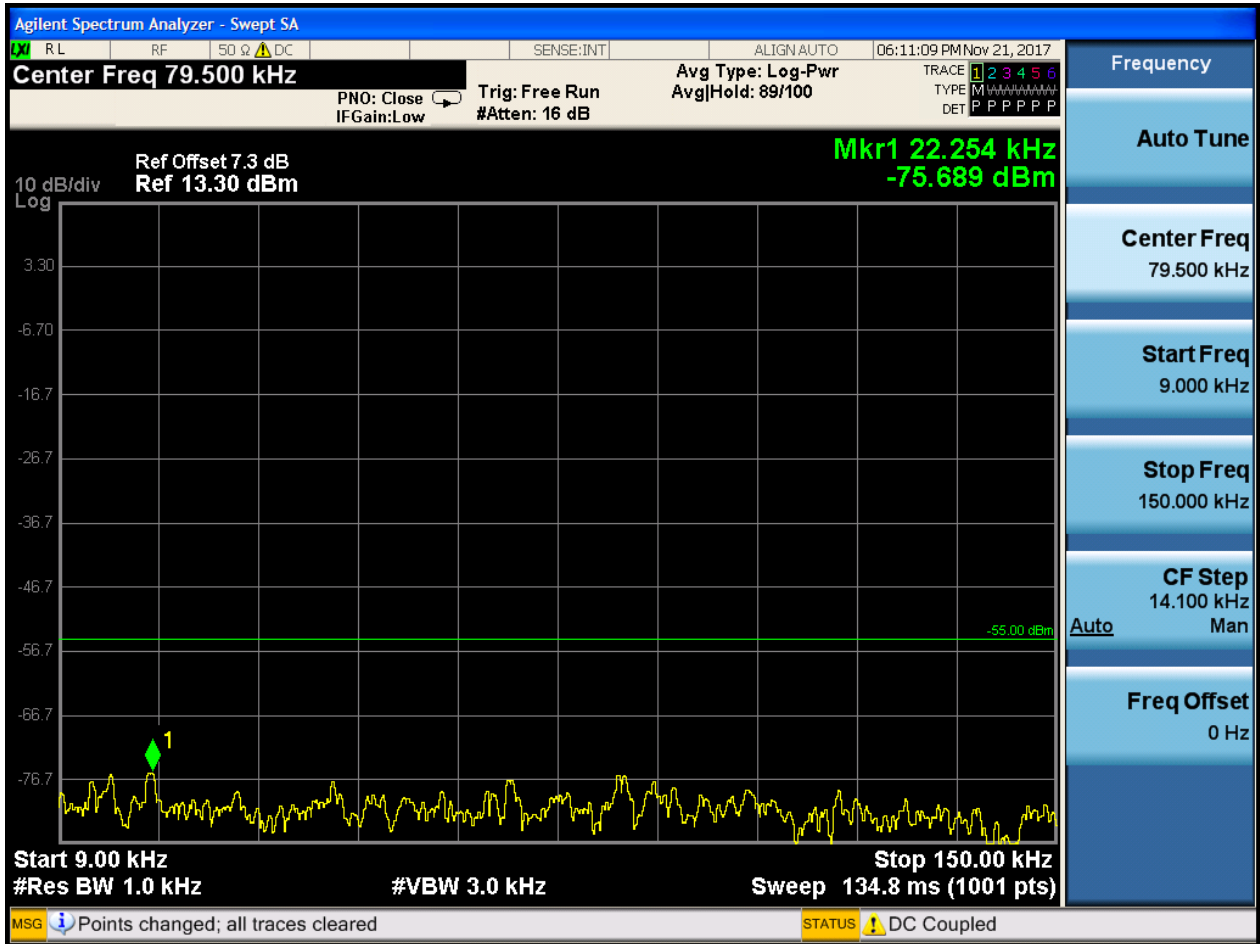


6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

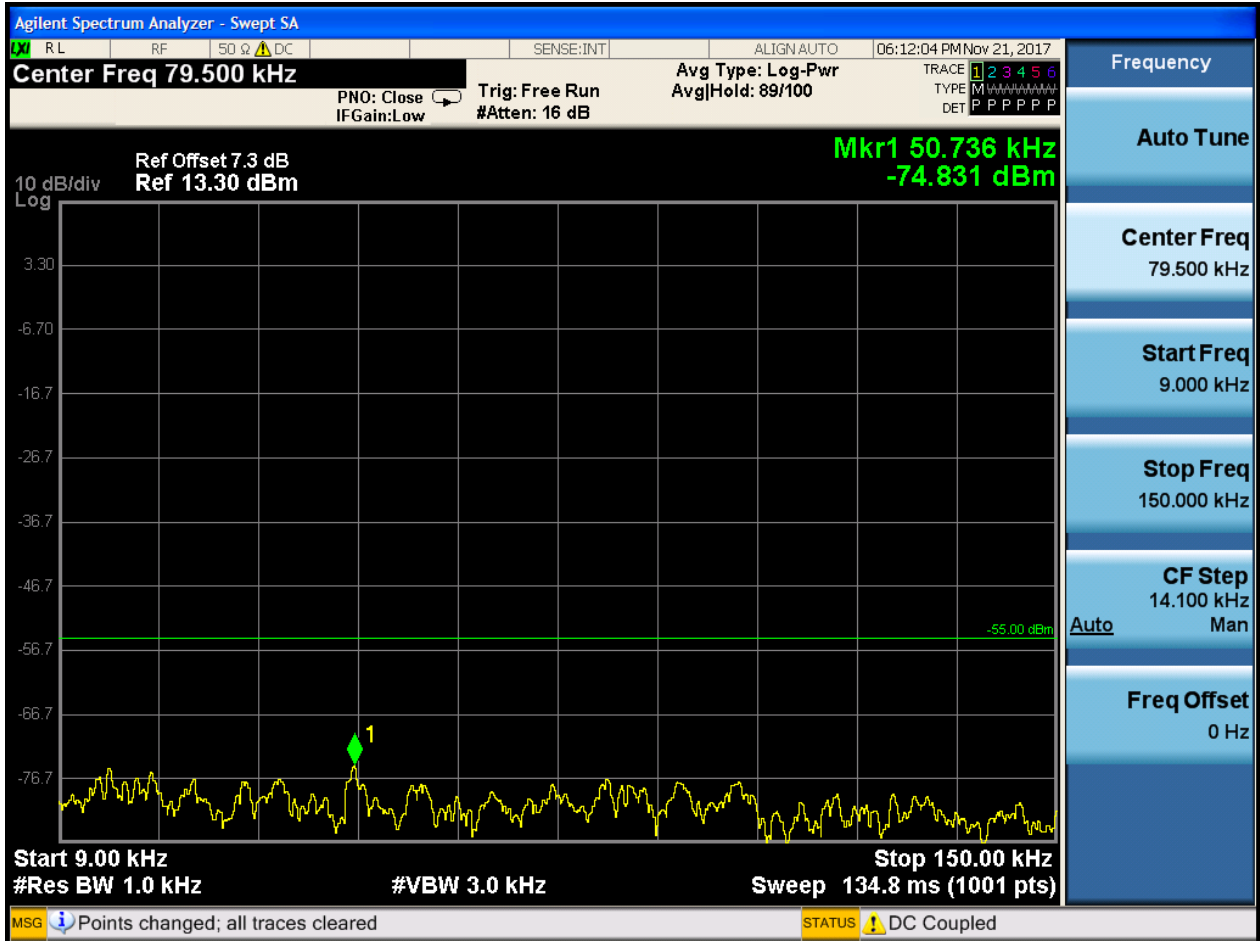
6.1.1.2.1.1.1 Test RB = RB1#0

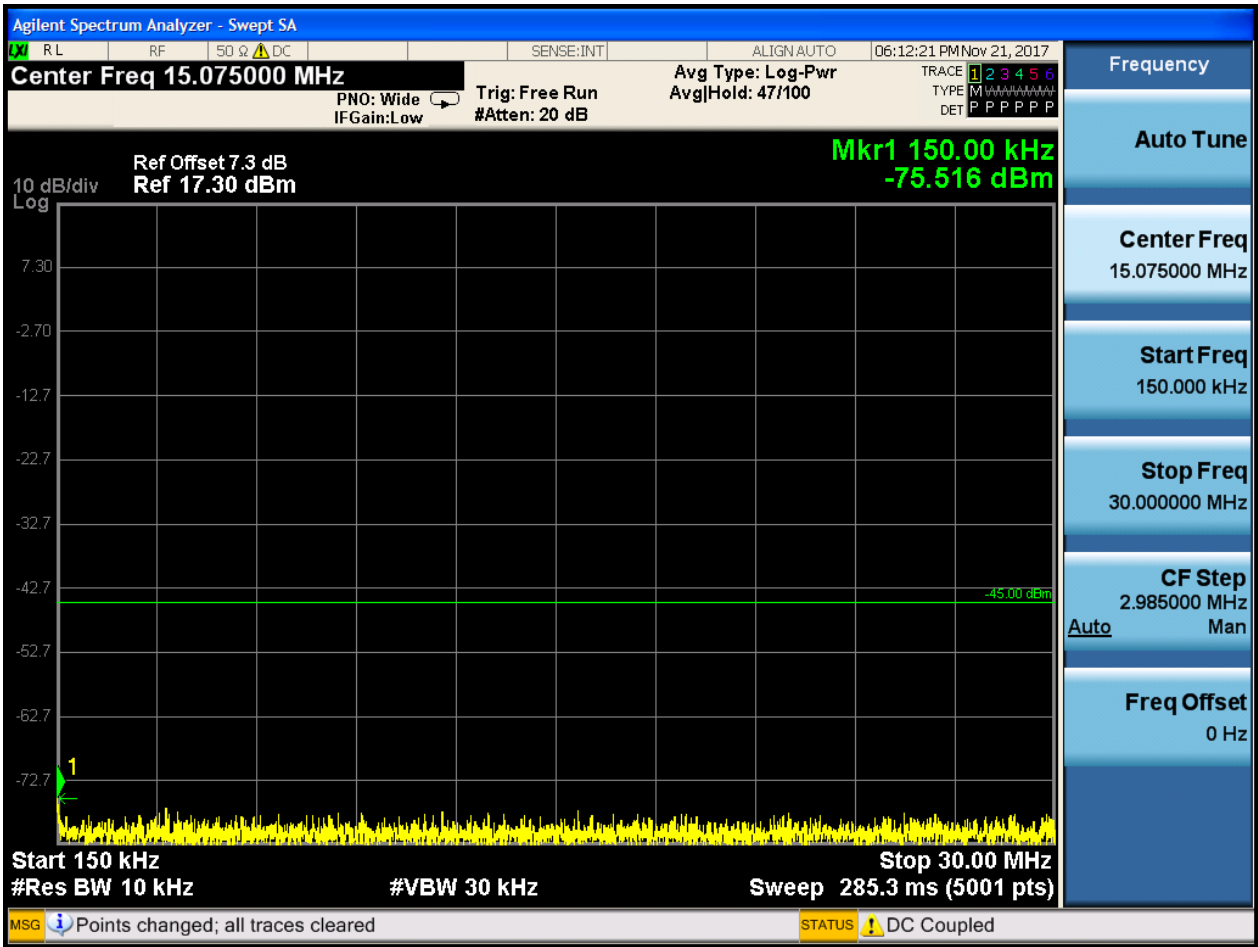


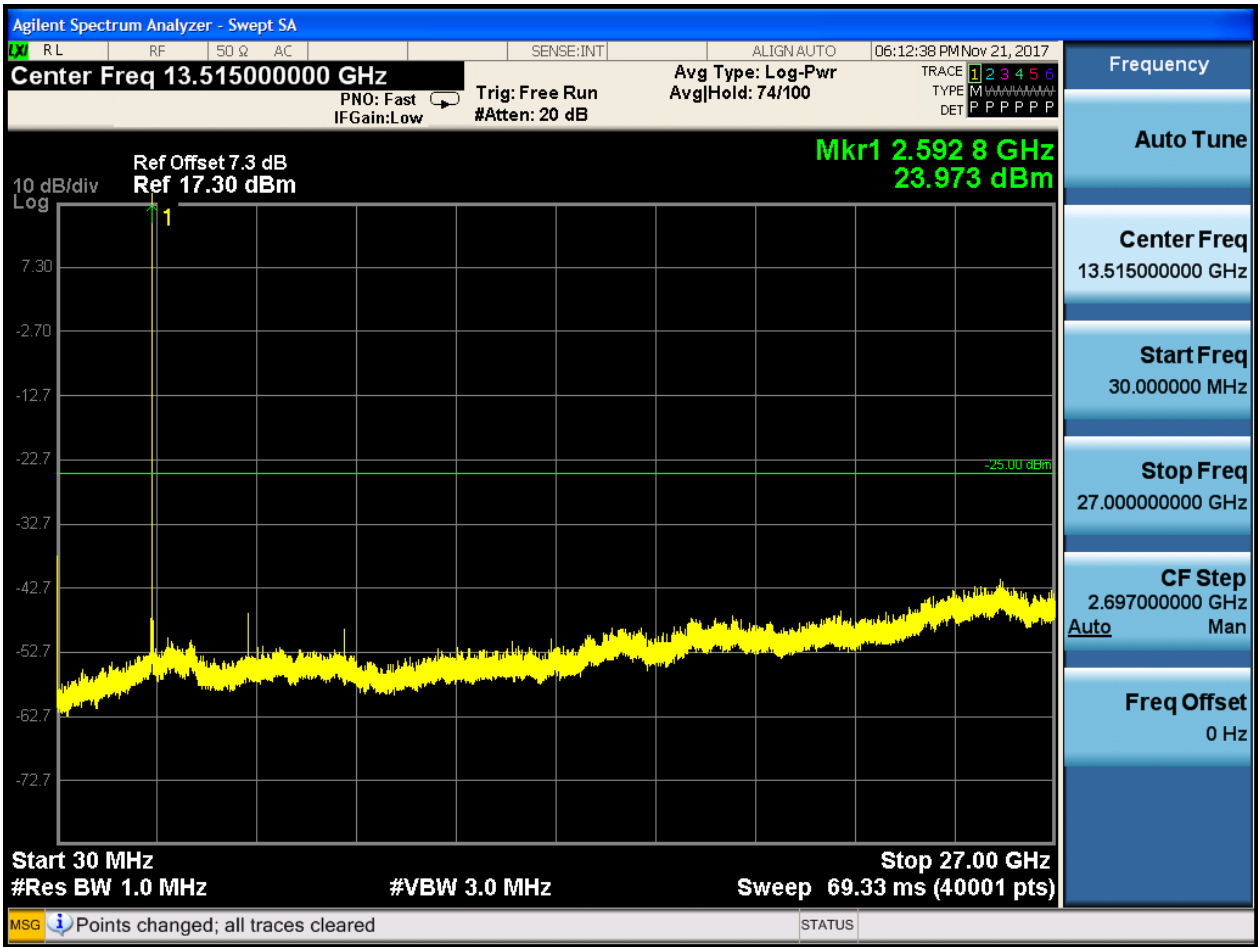


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



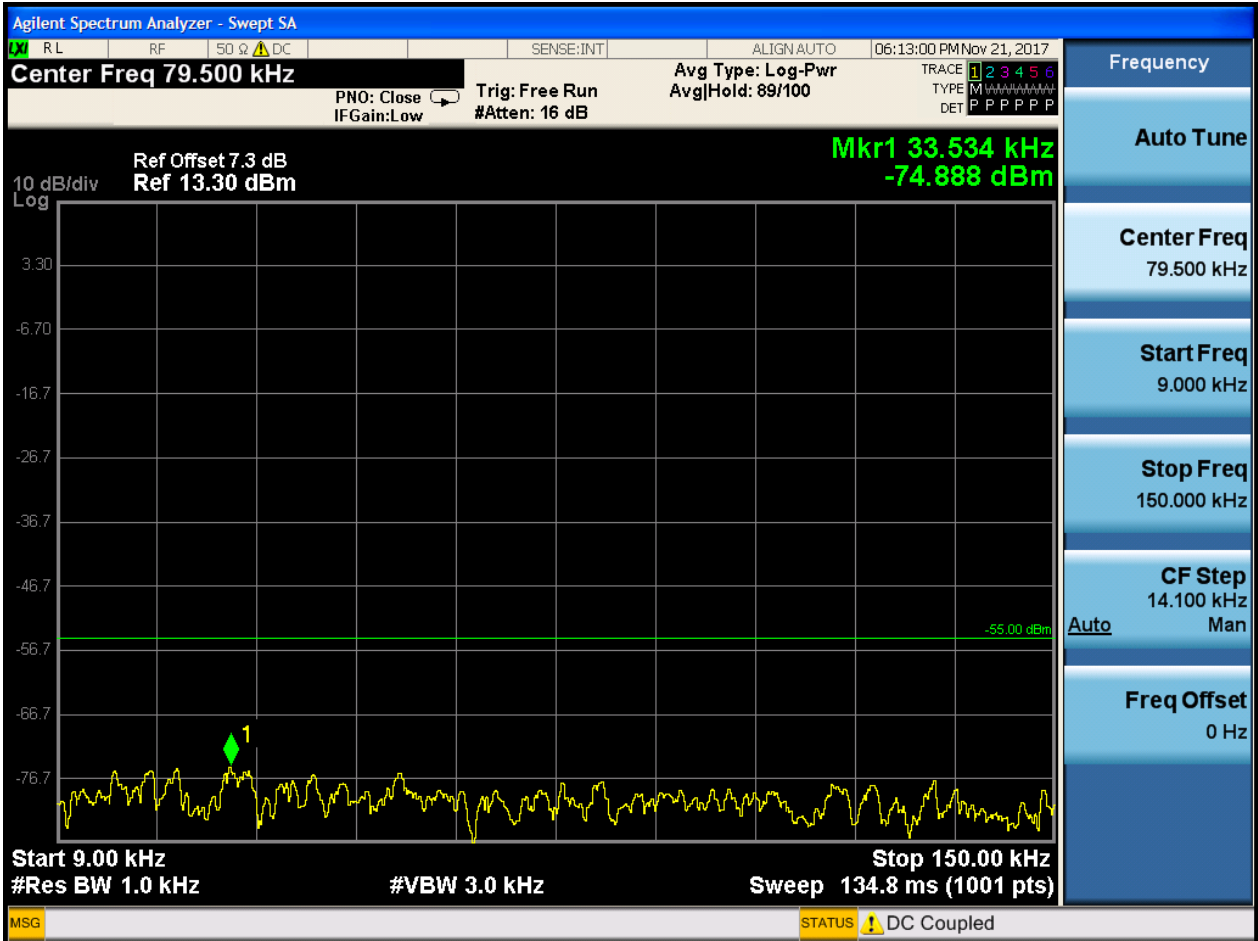


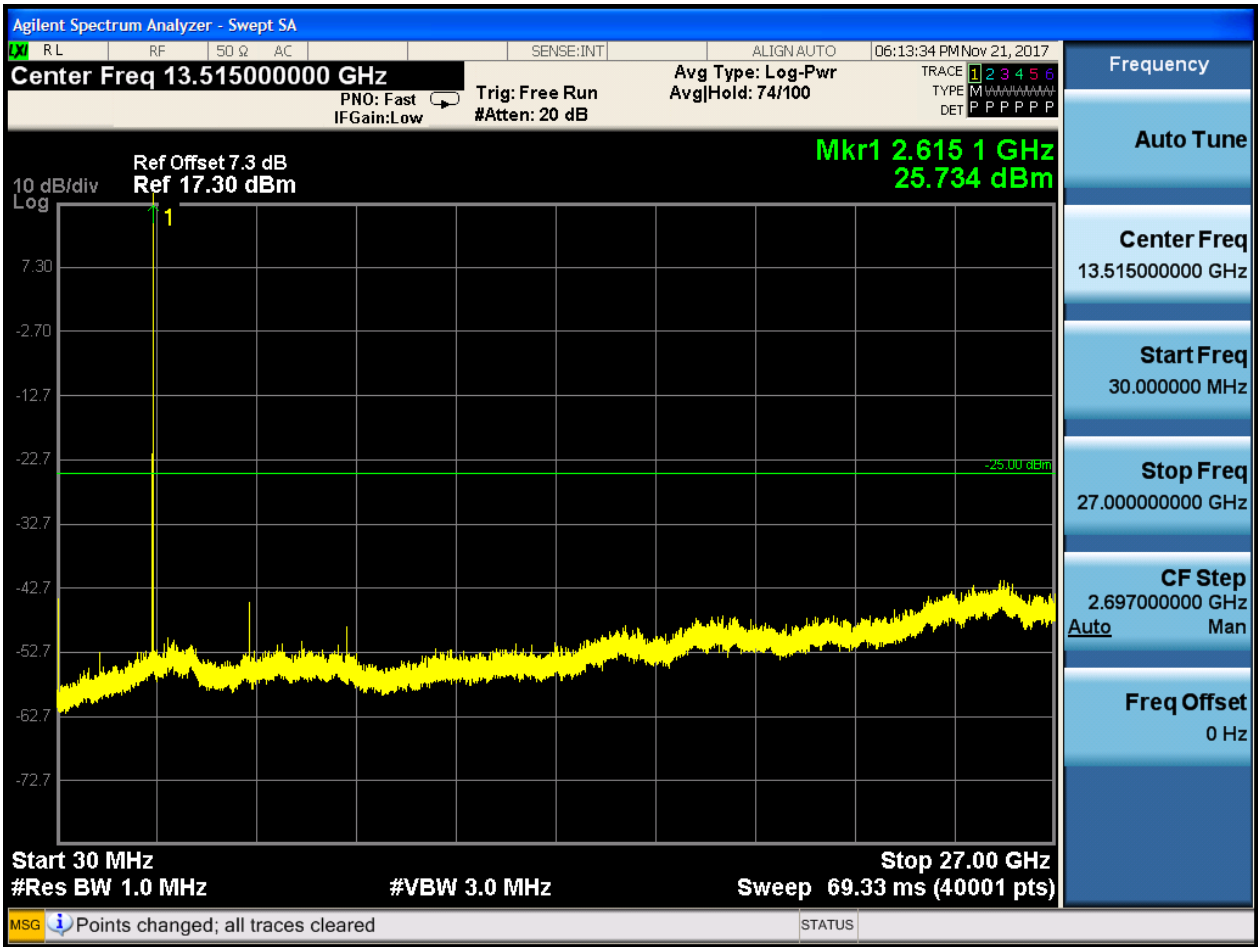




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



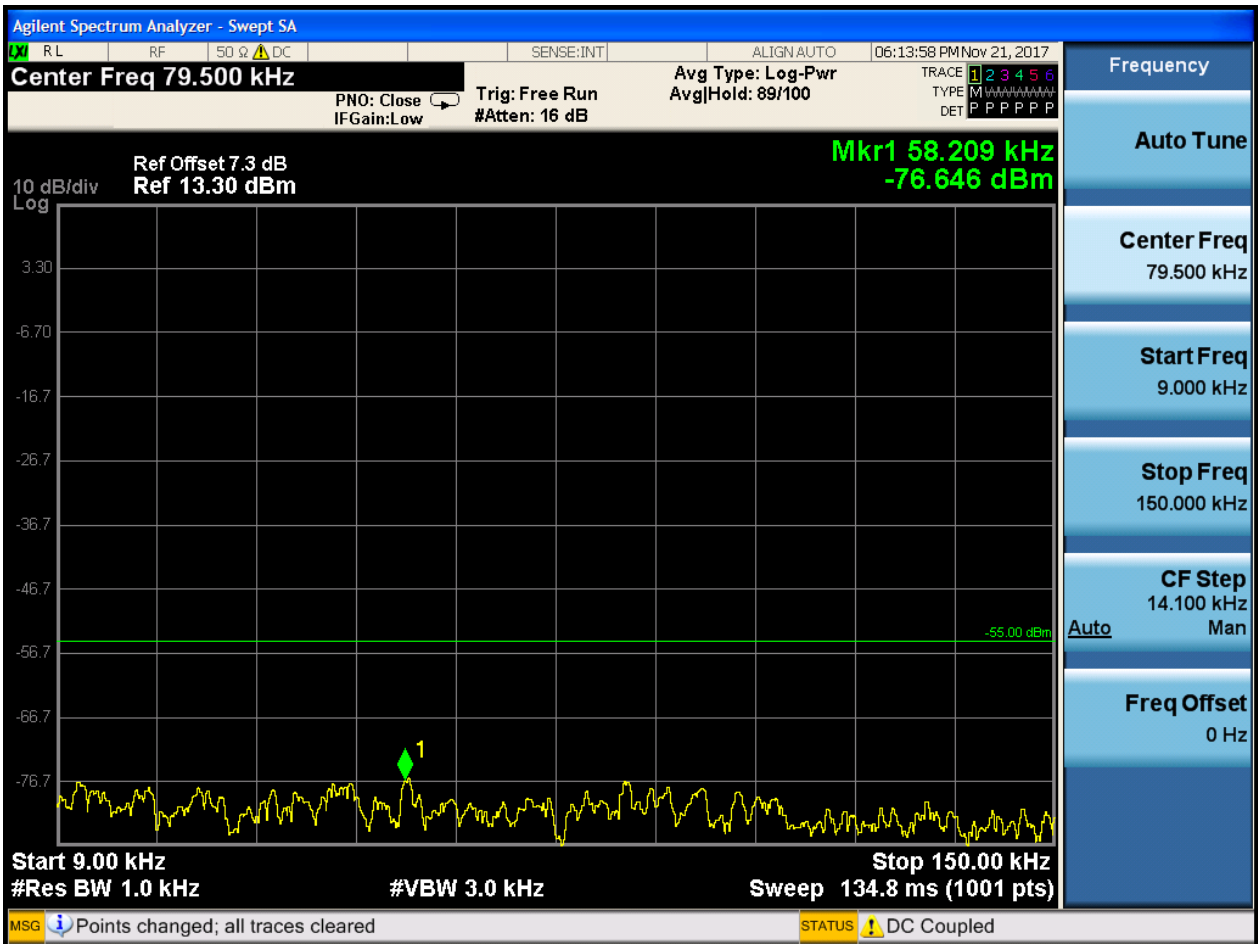


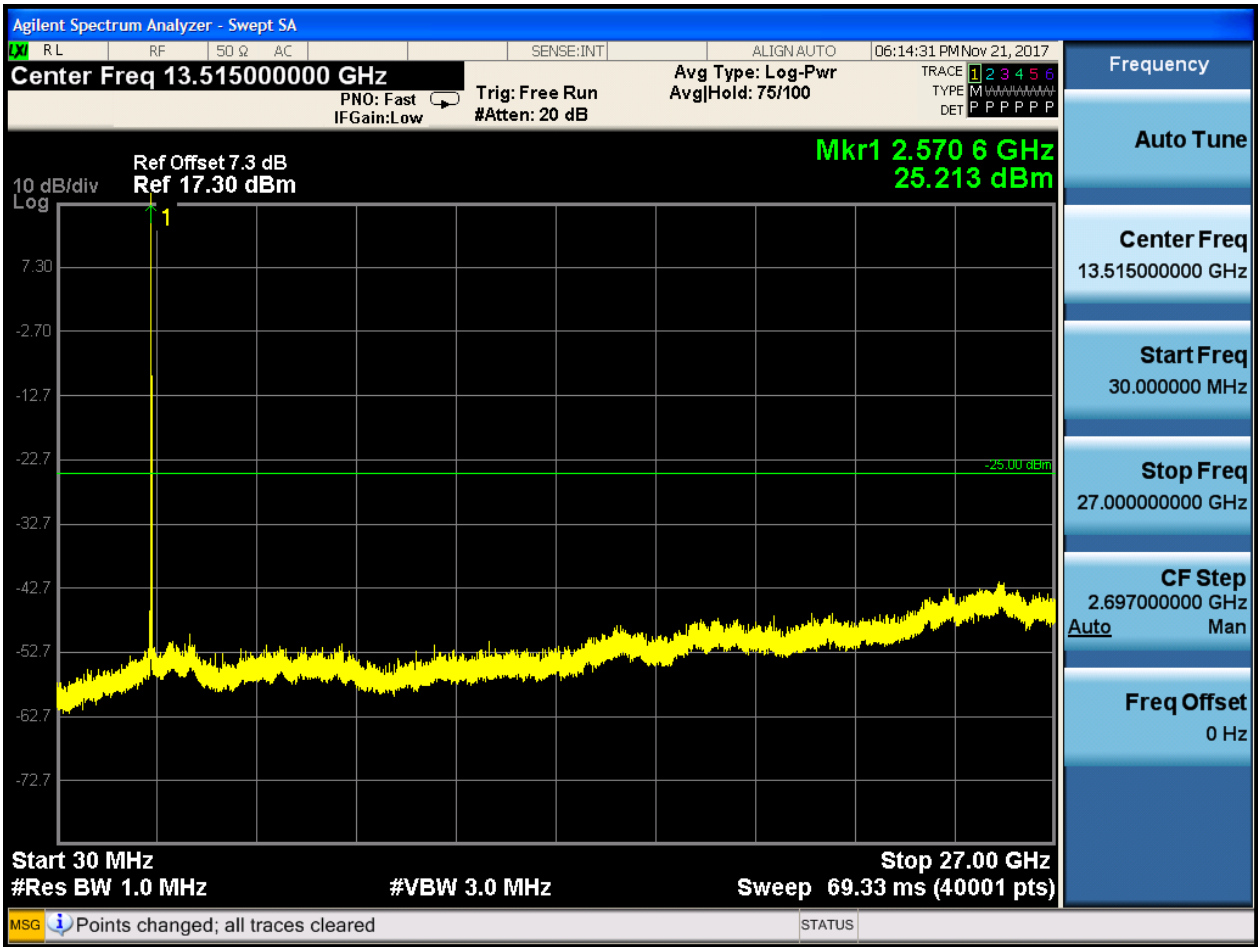


6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0

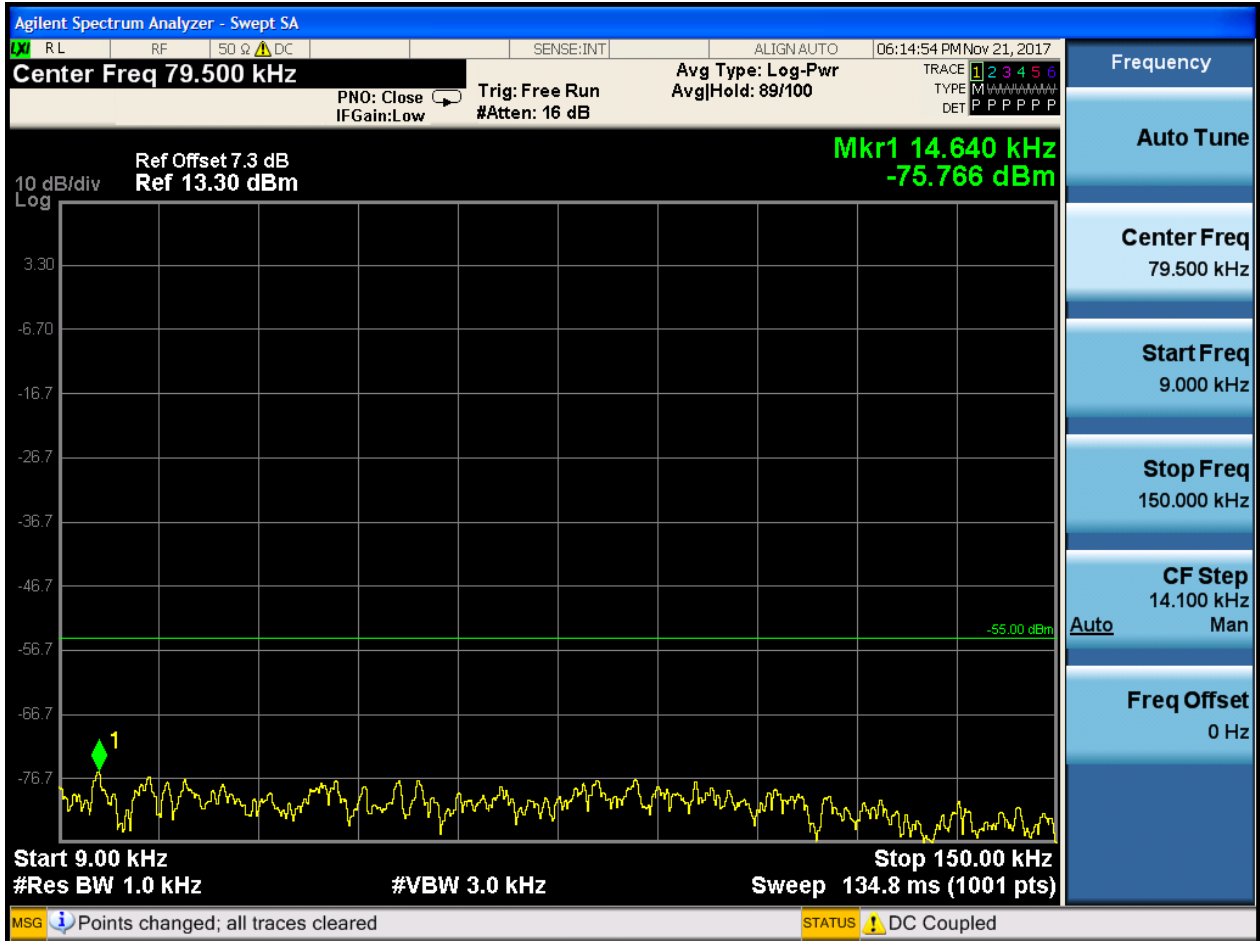


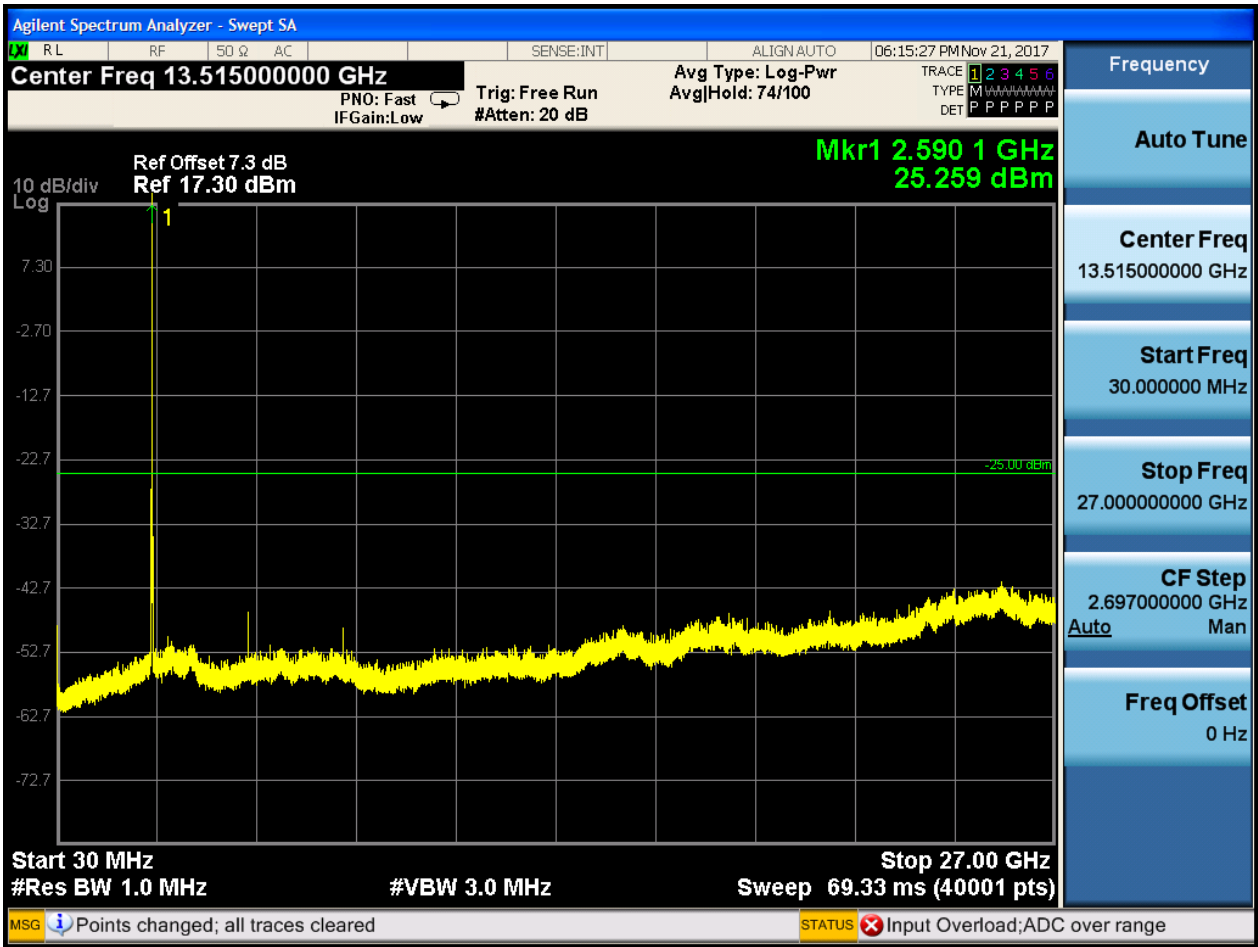




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

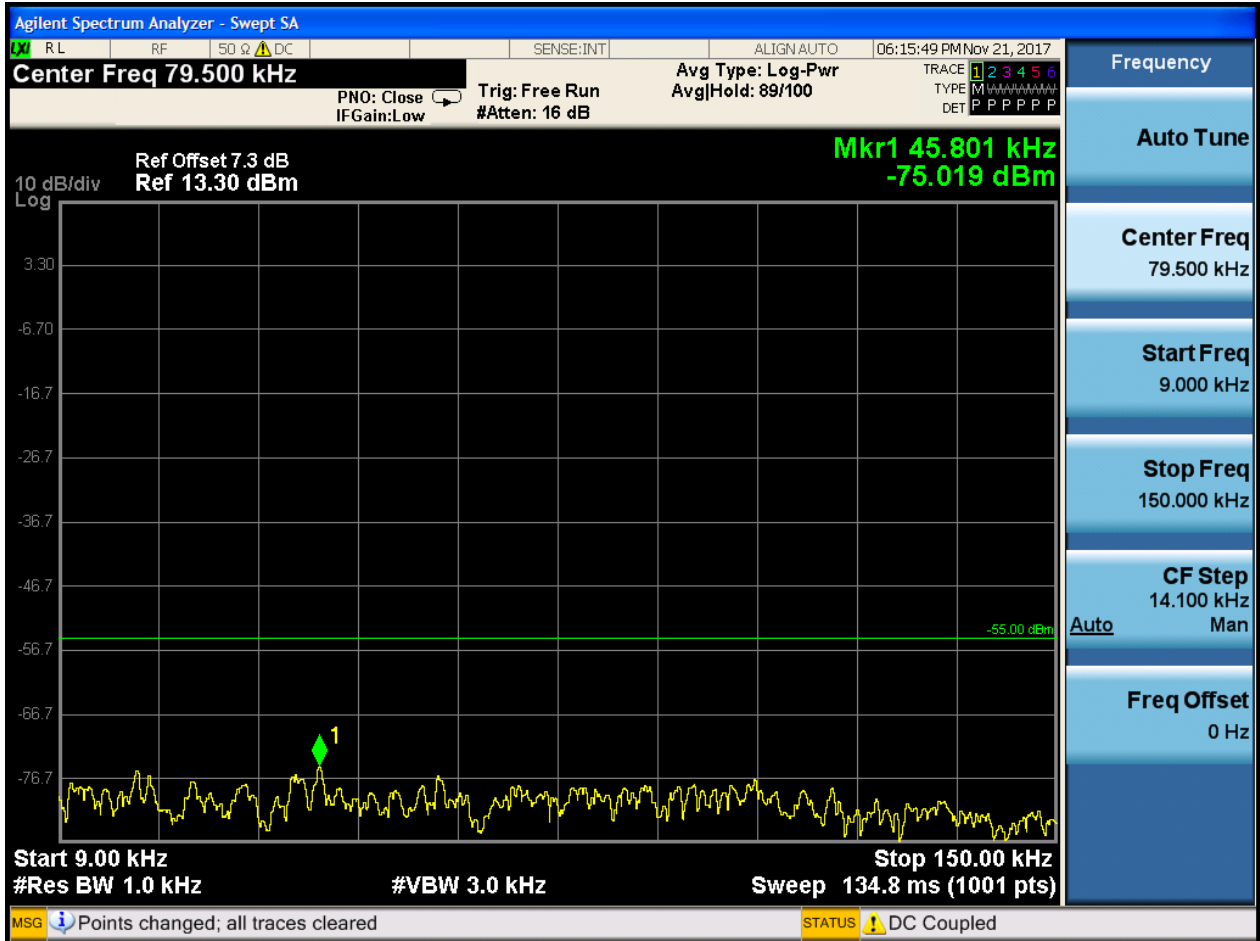


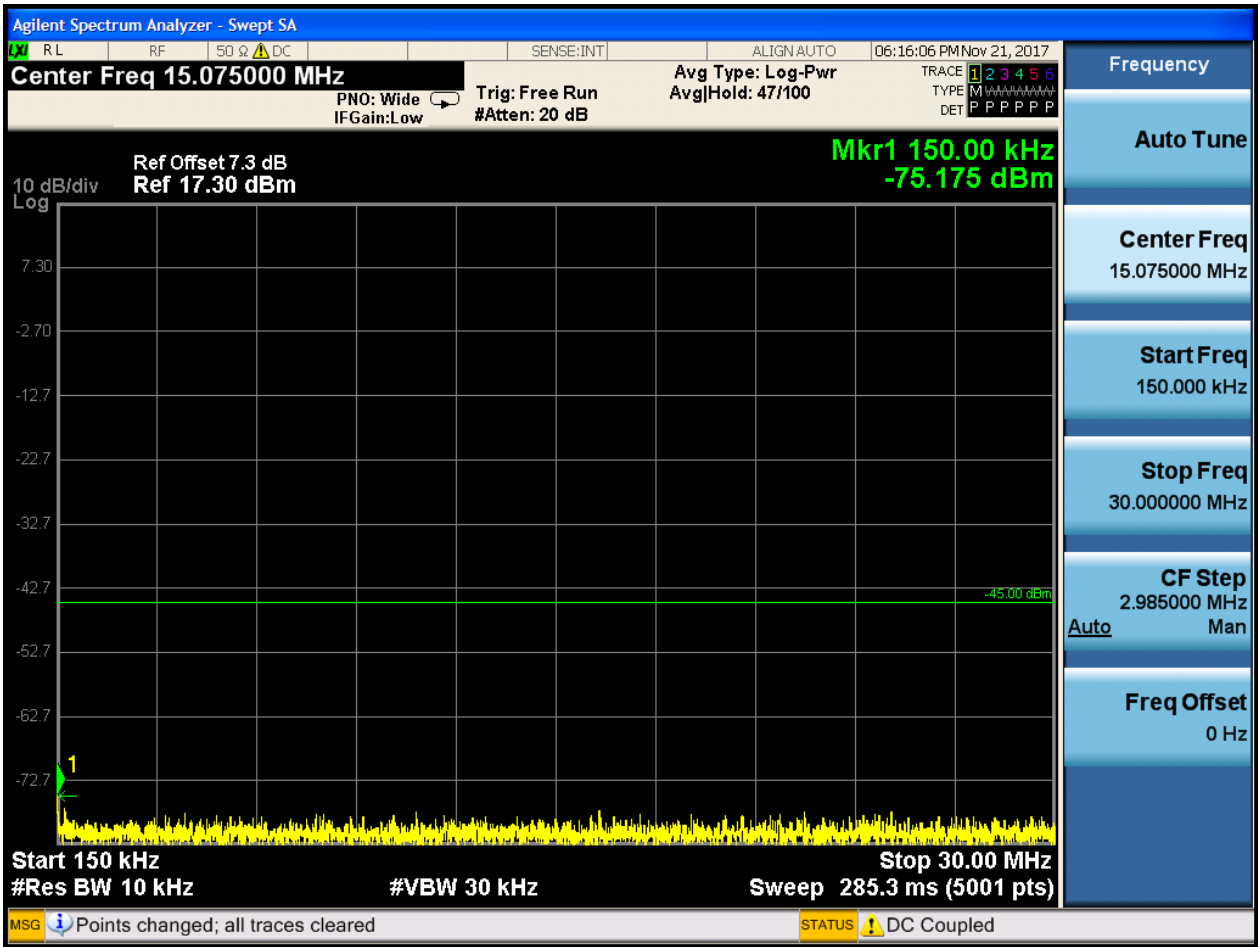


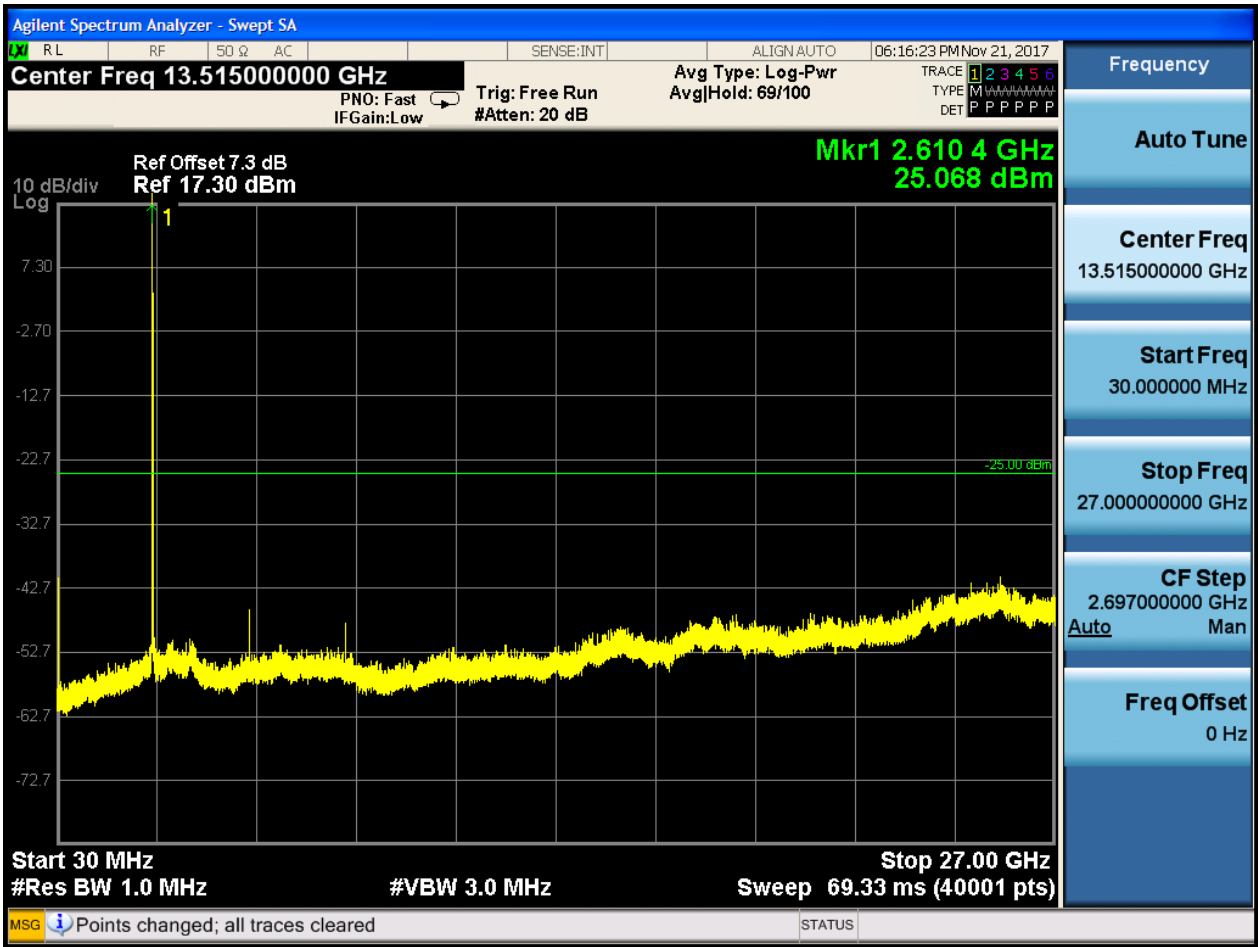


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





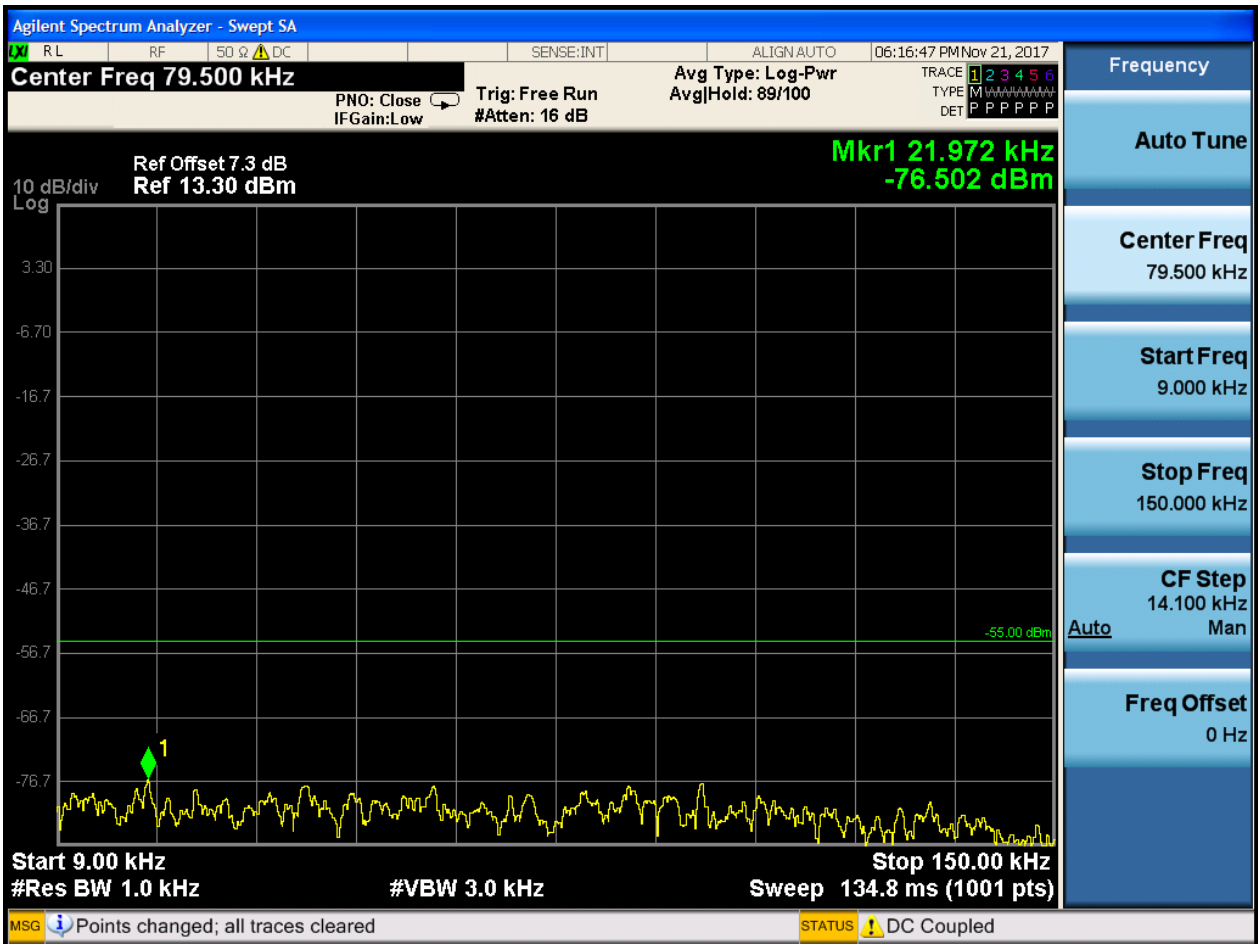


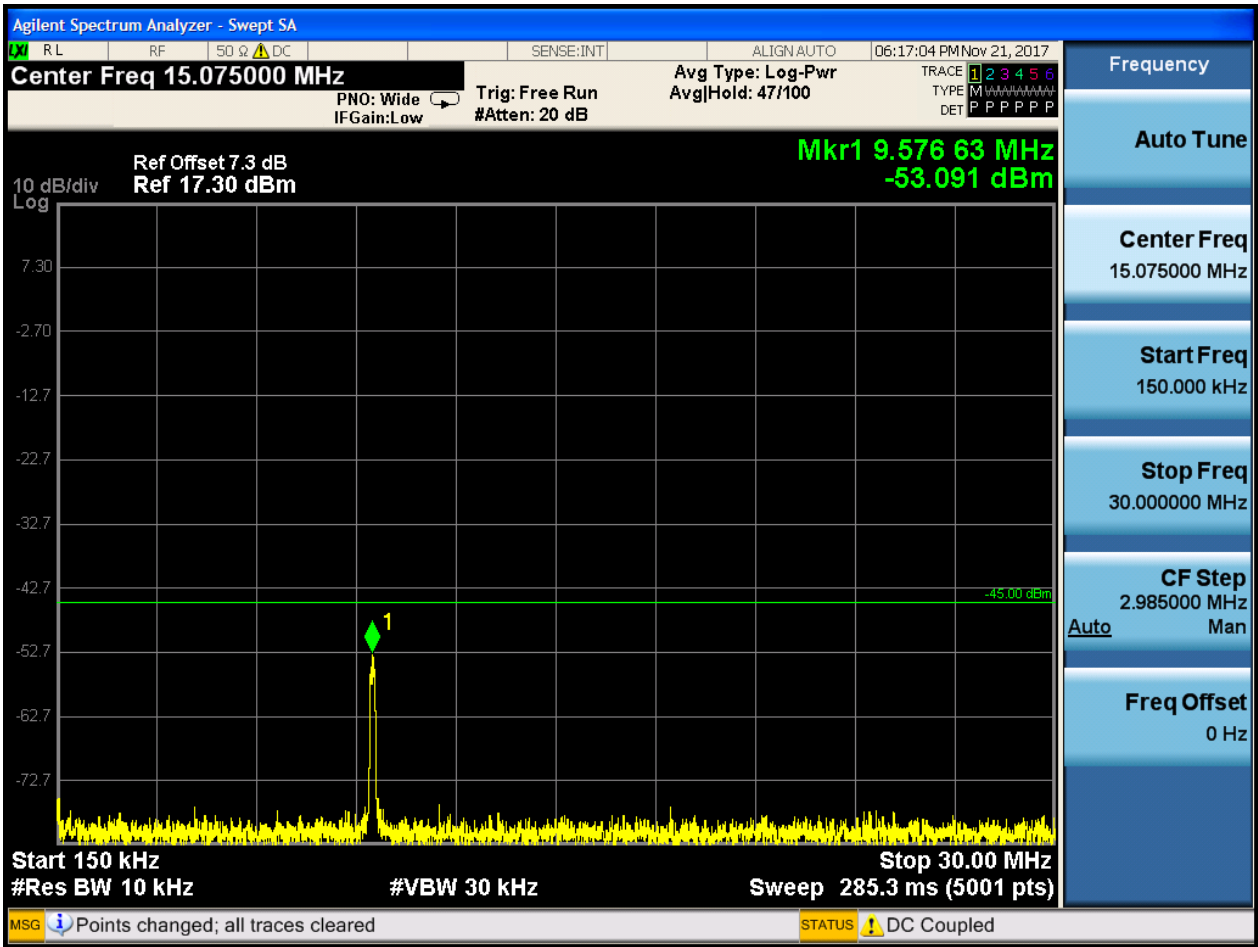


6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

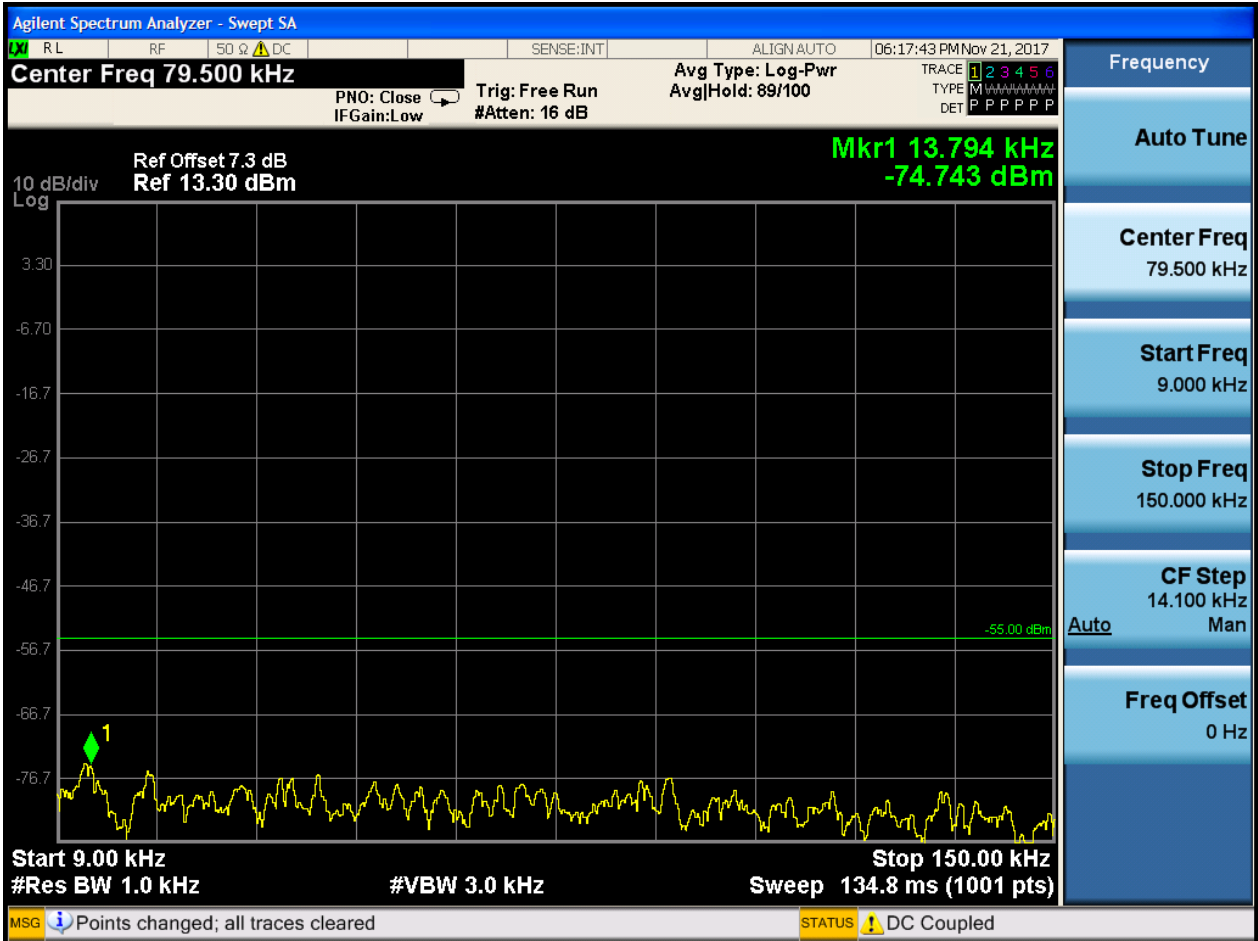


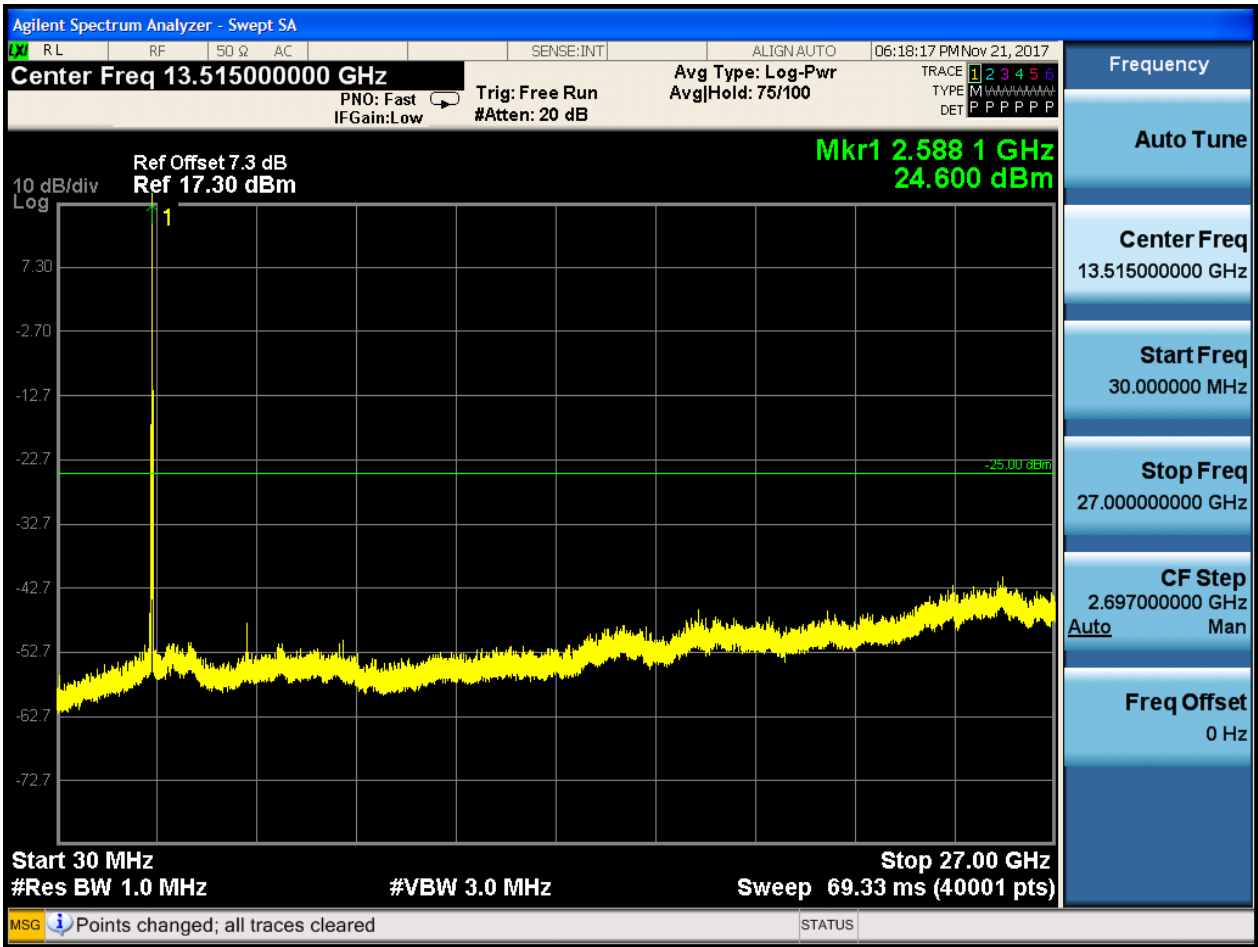




6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

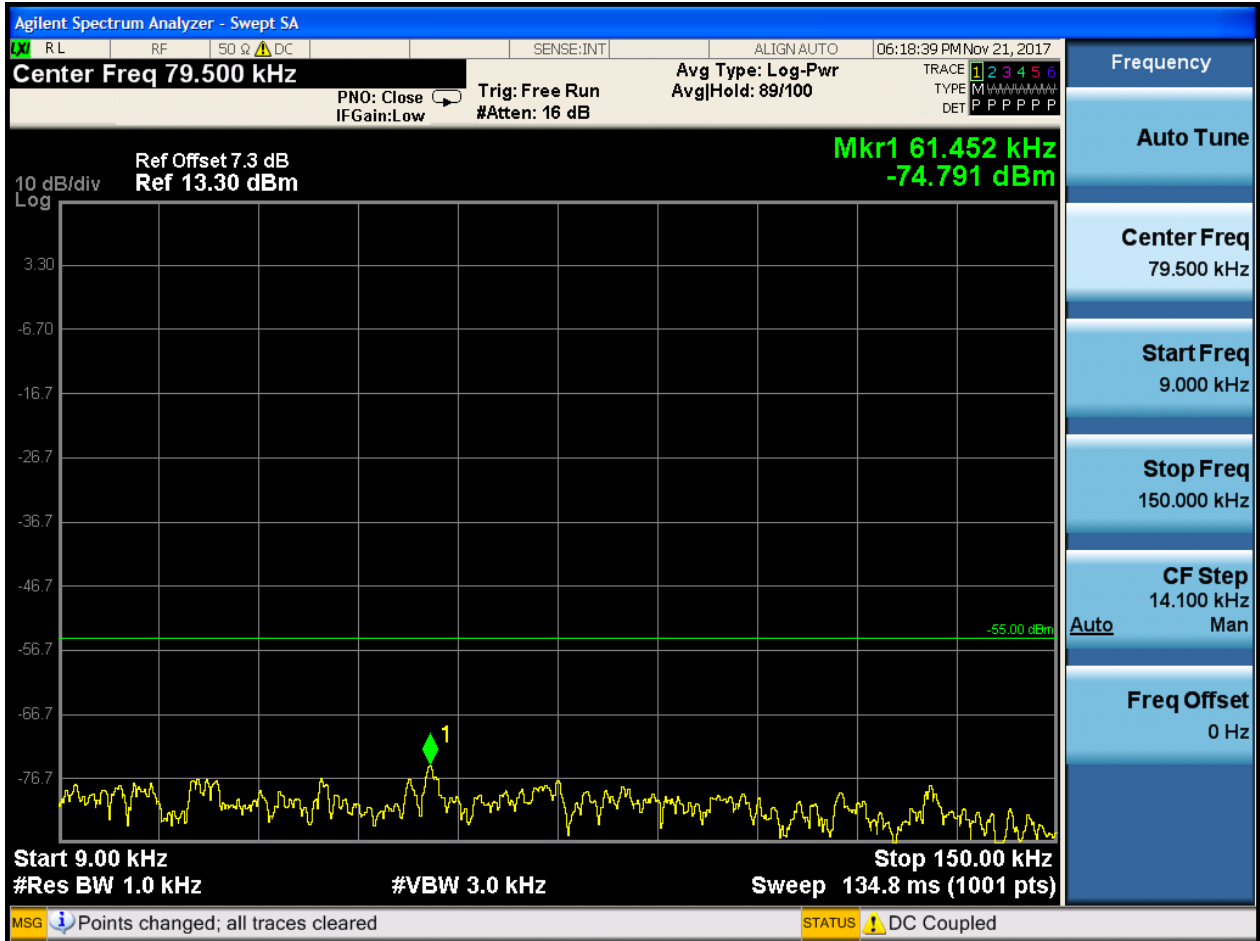


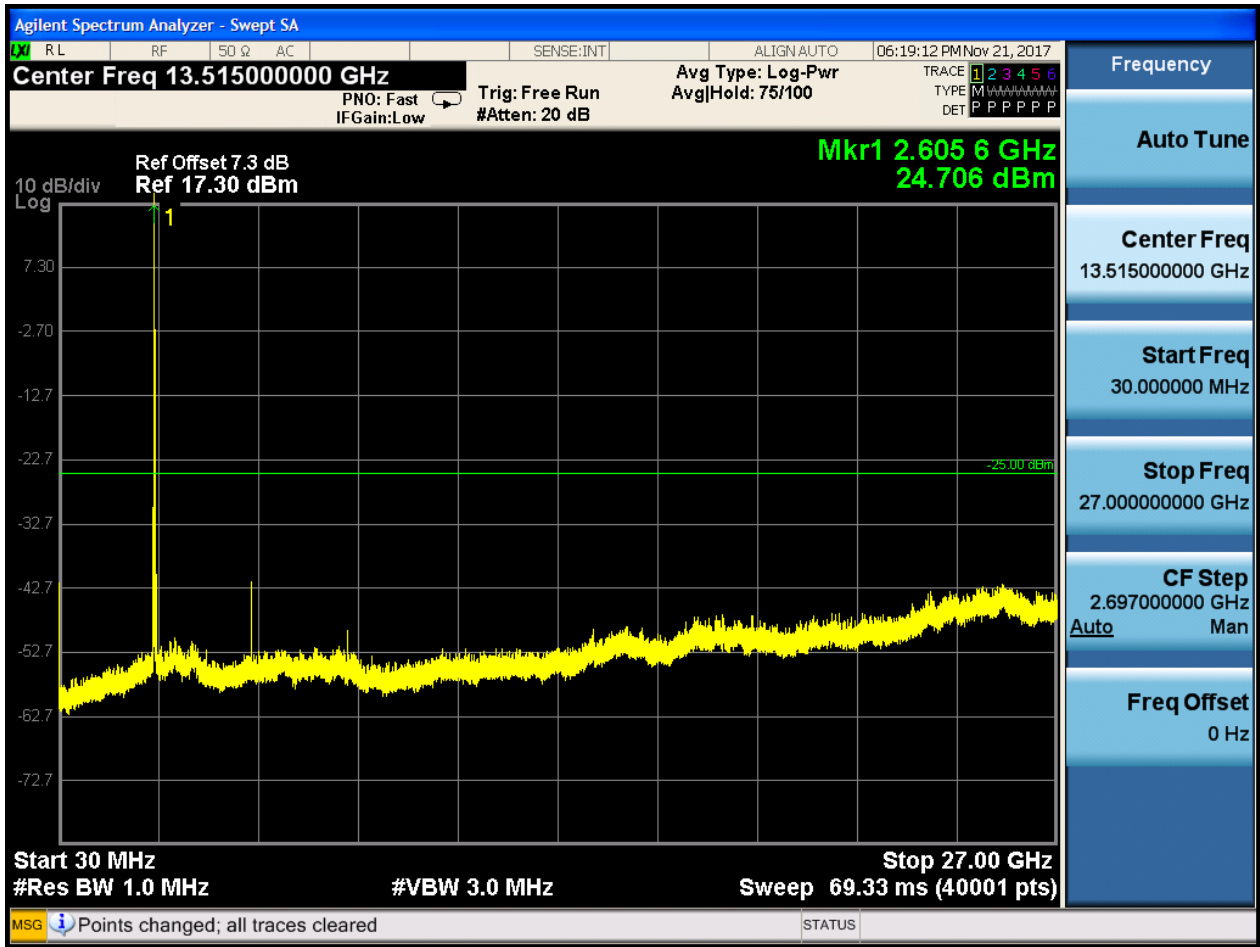




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



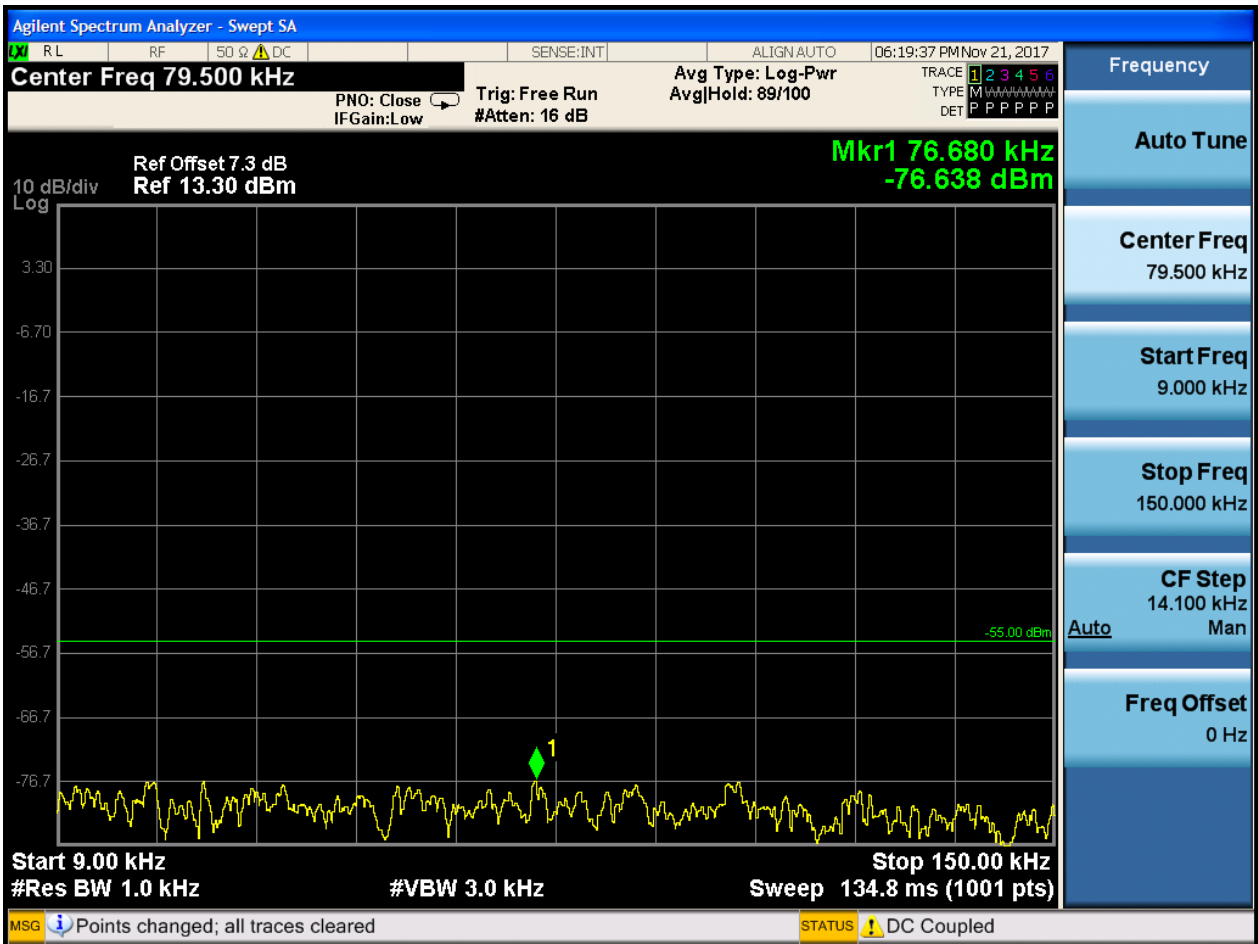


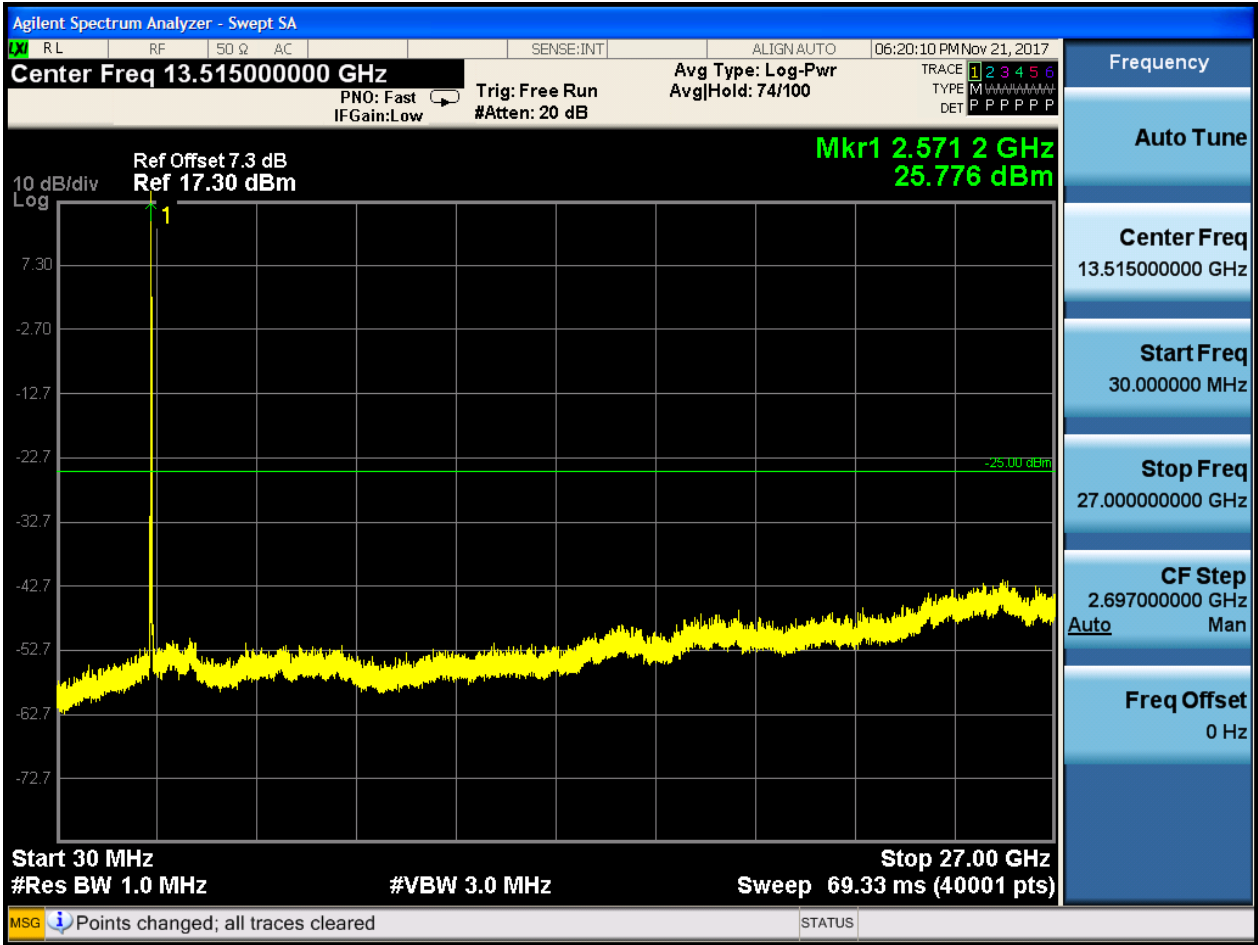


6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

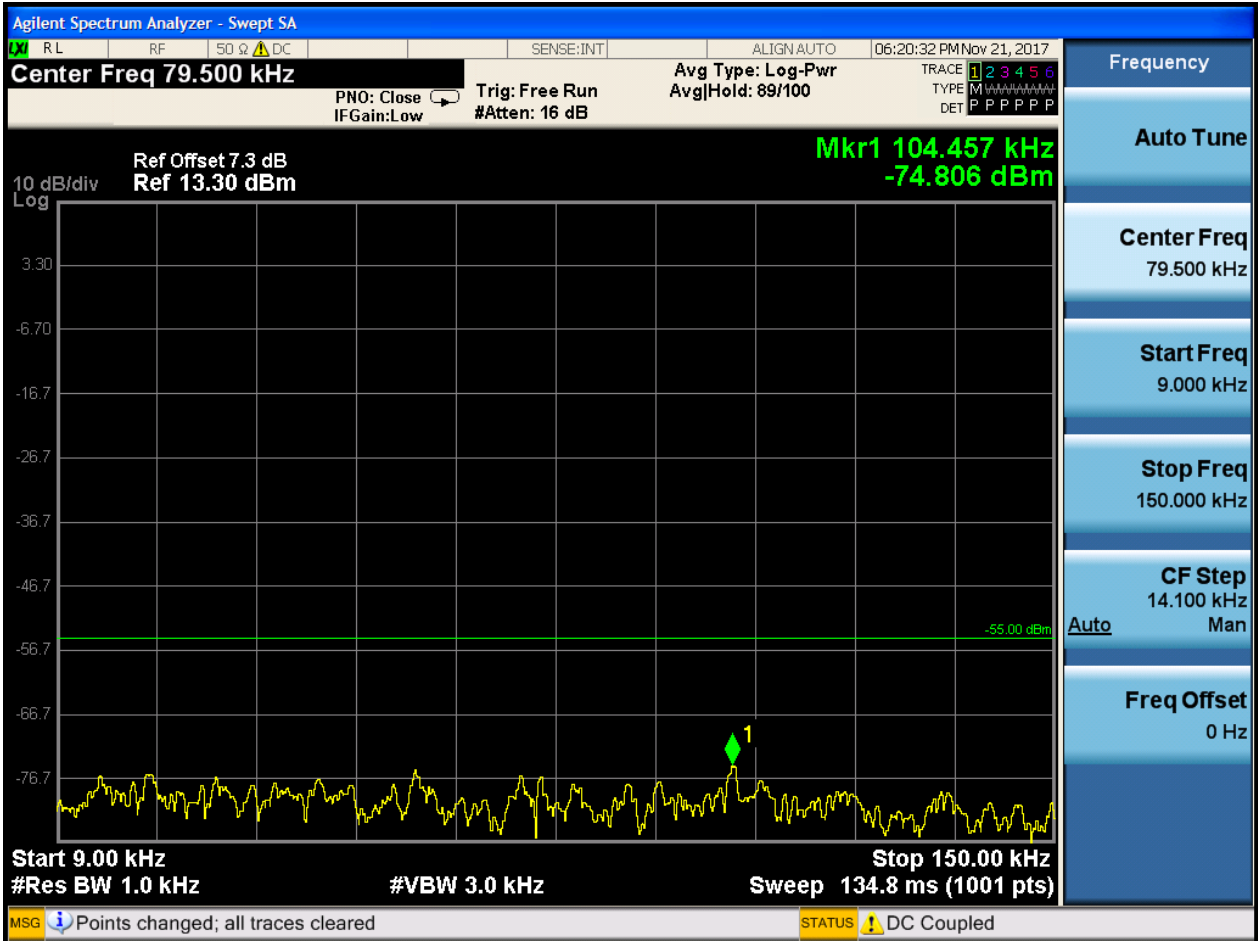


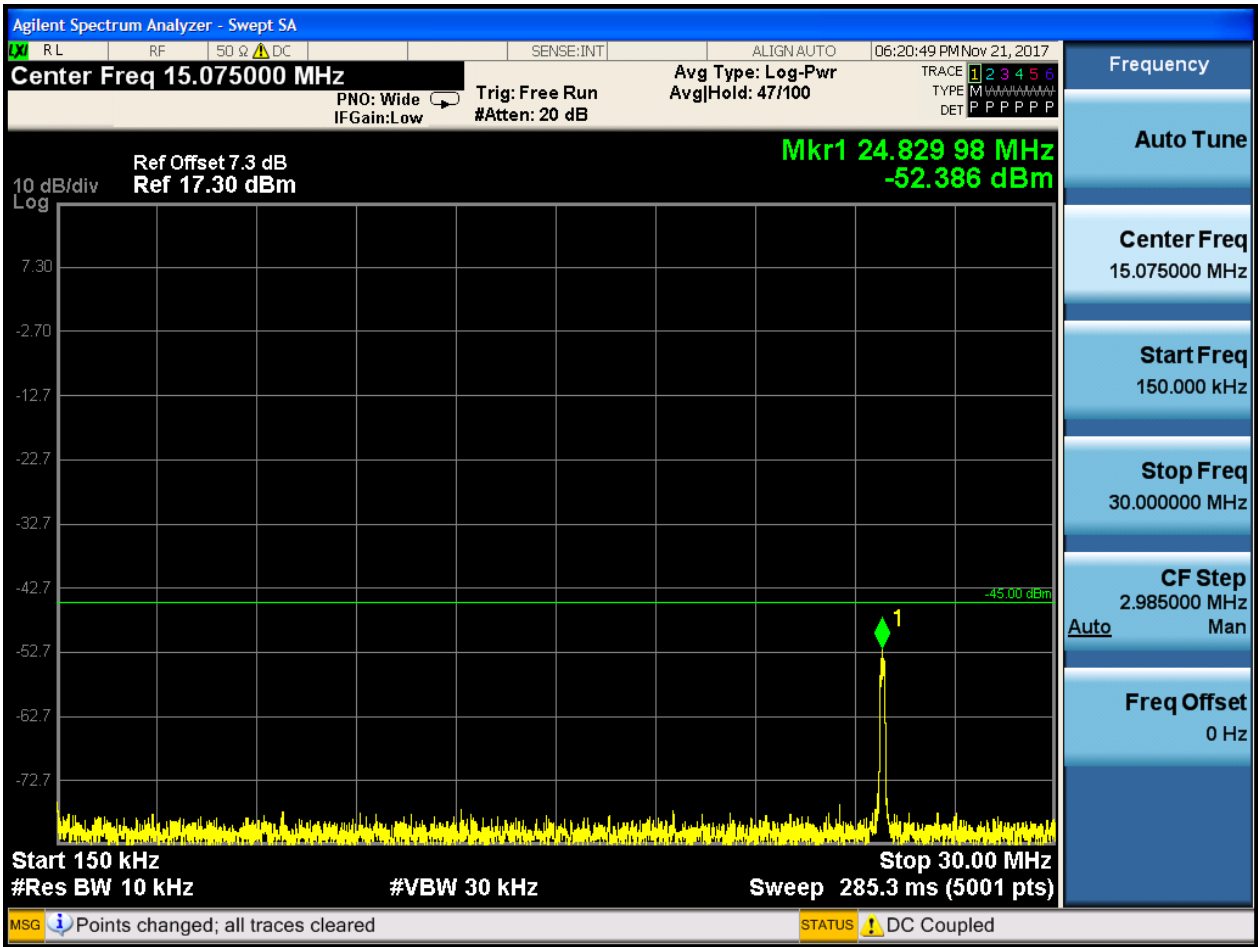


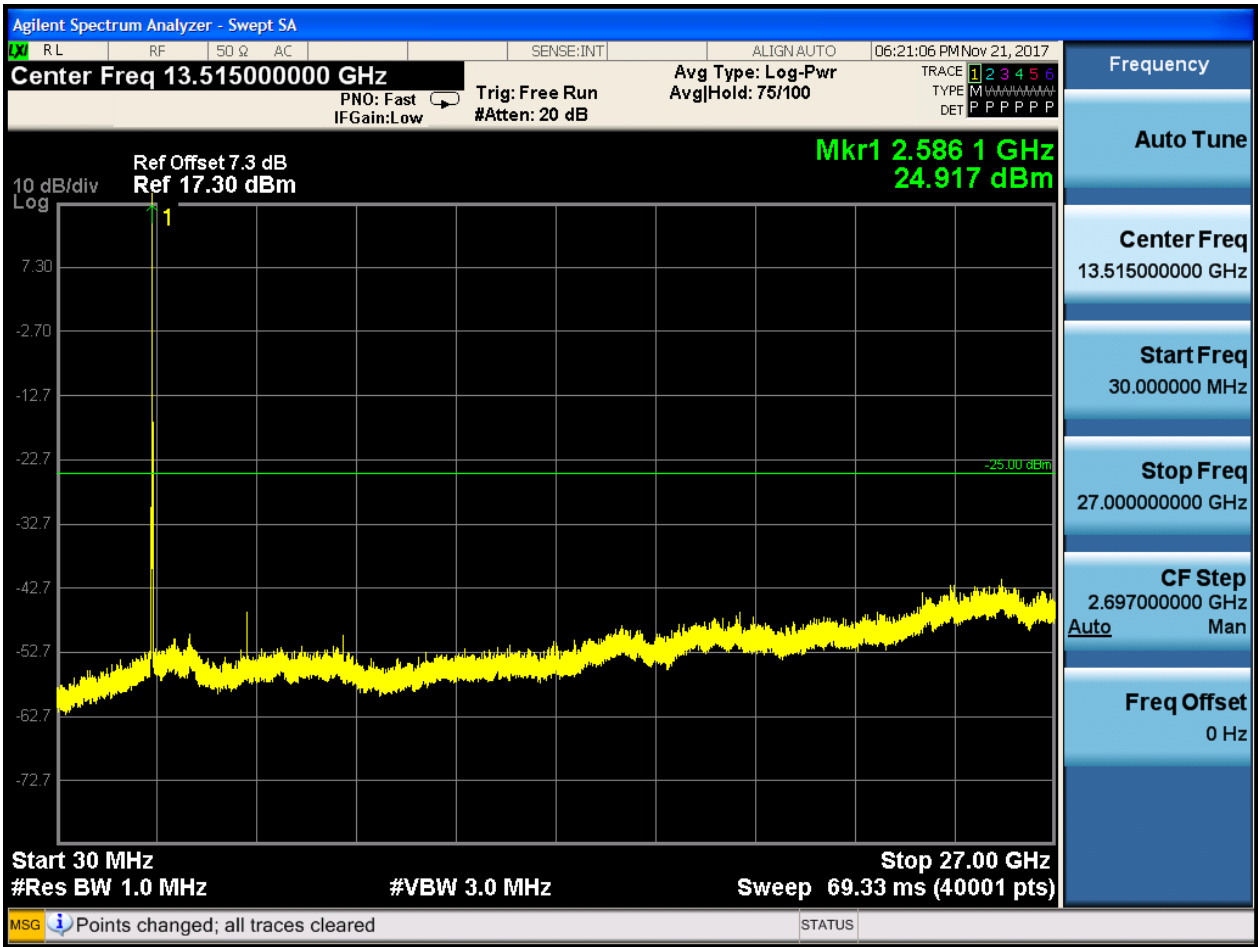


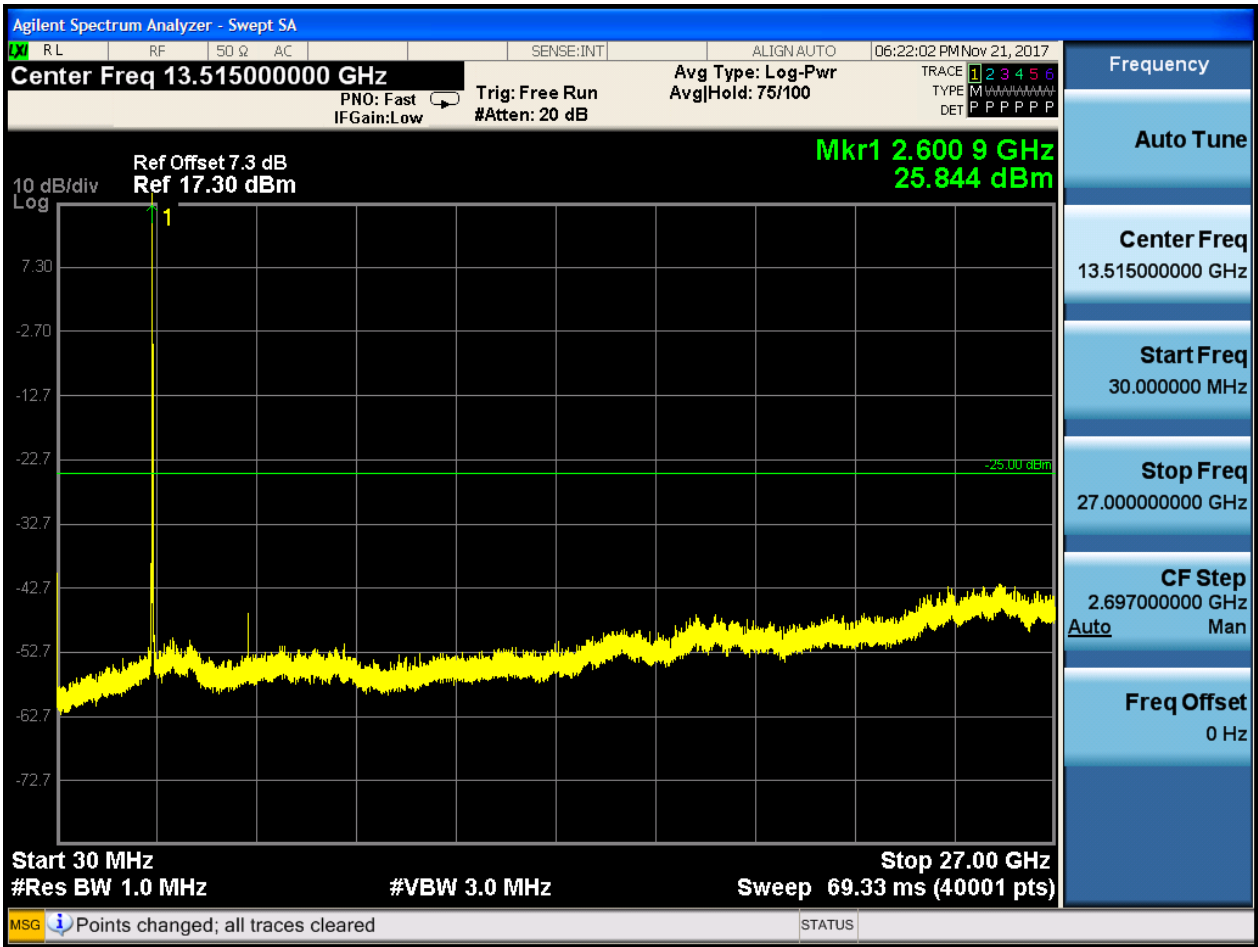
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0









7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9 kHz~150 kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150 kHz~30MHz, RBW = 9 kHz, 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

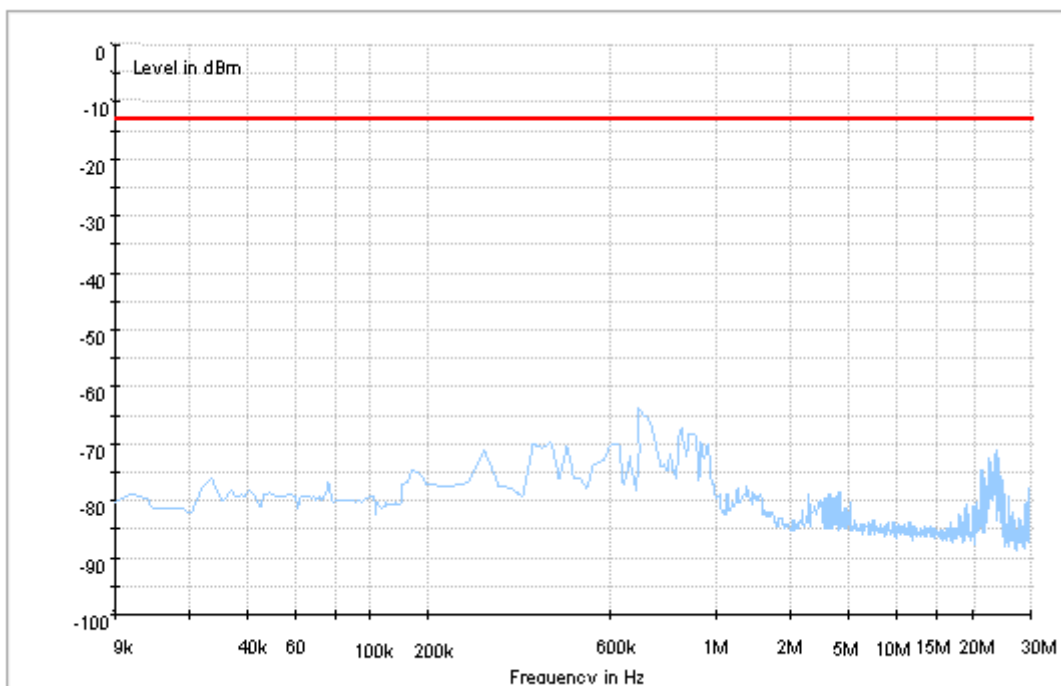
Part I - Test Plots

Part I - Test Plots

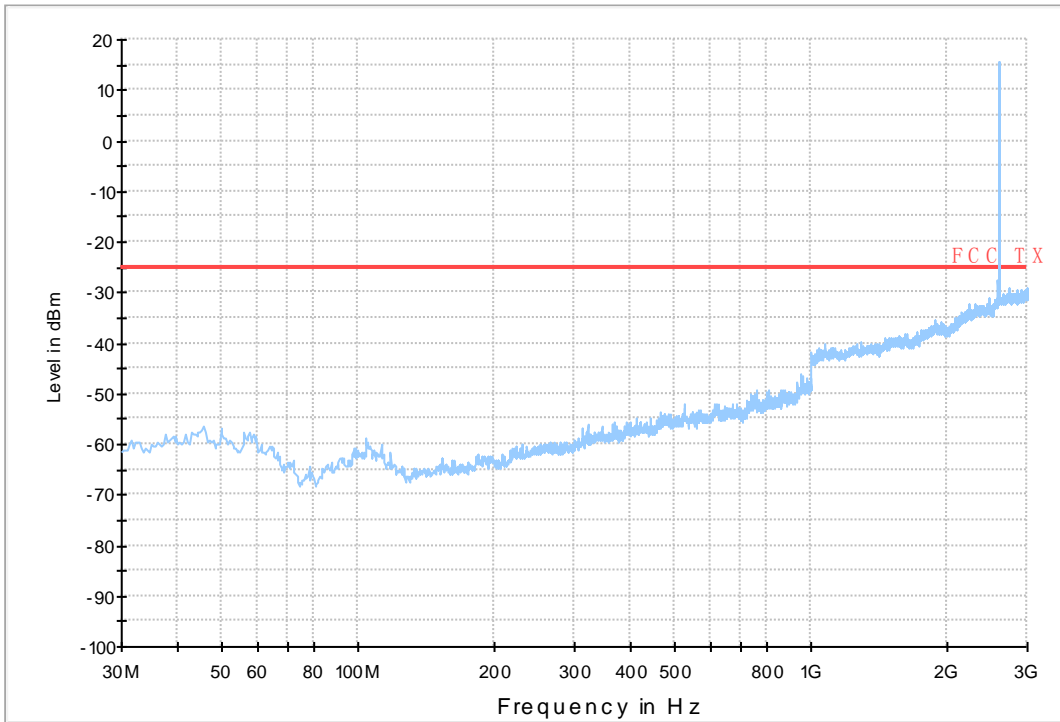
7.1 For LTE

7.1.1 Test Band = BAND38_Ant1

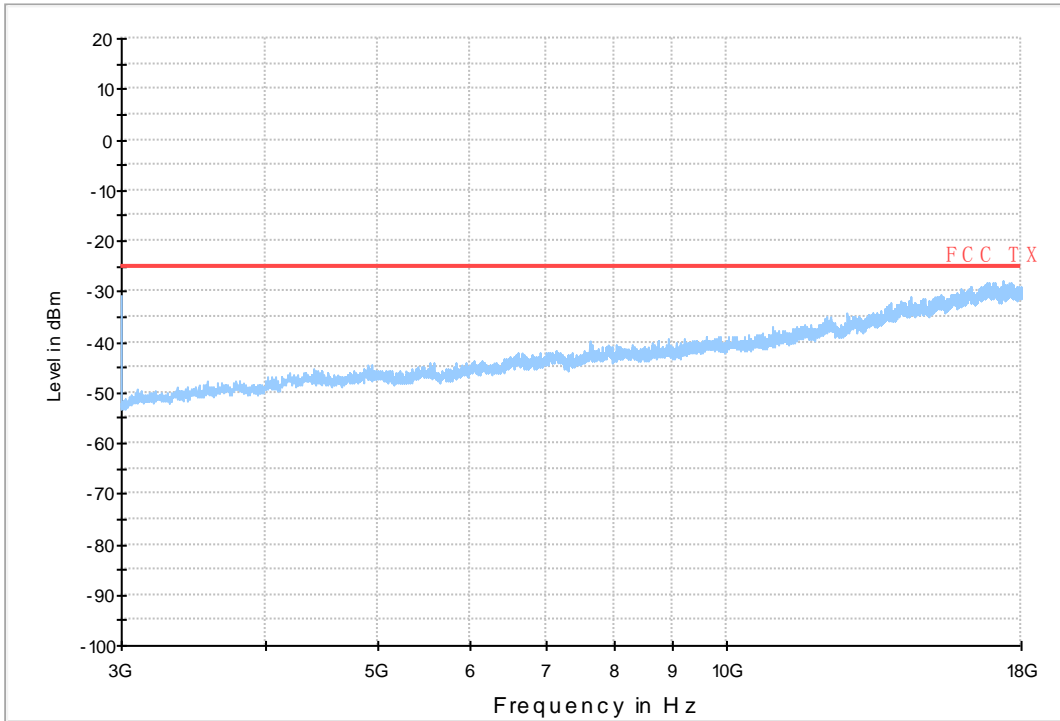
7.1.1.1 Test Bandwidth = 5

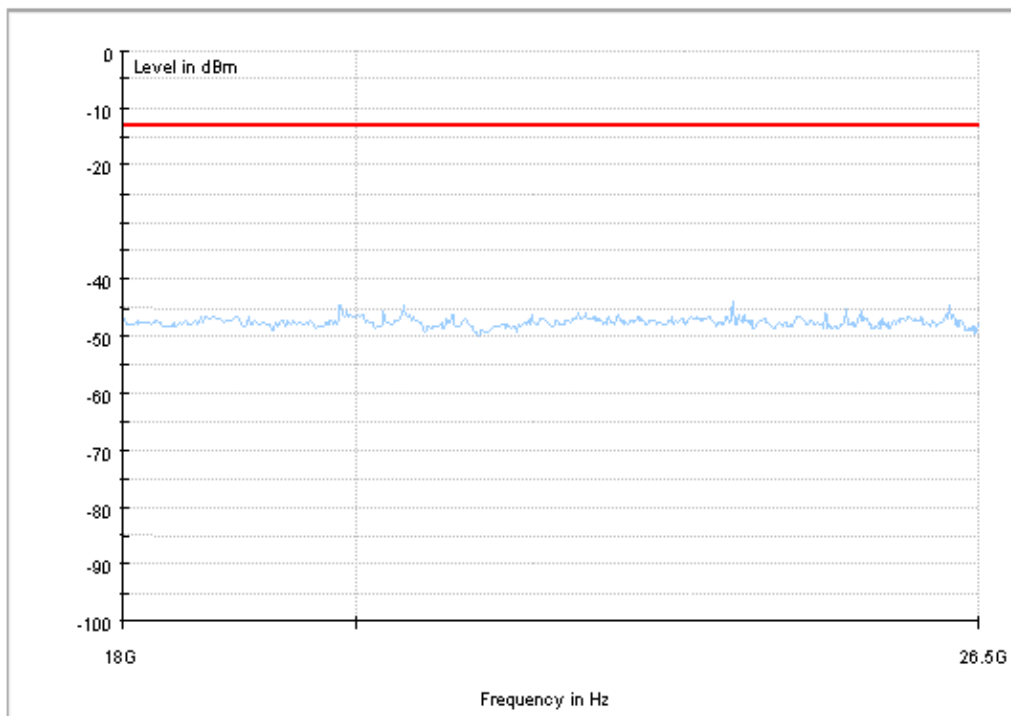


Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L

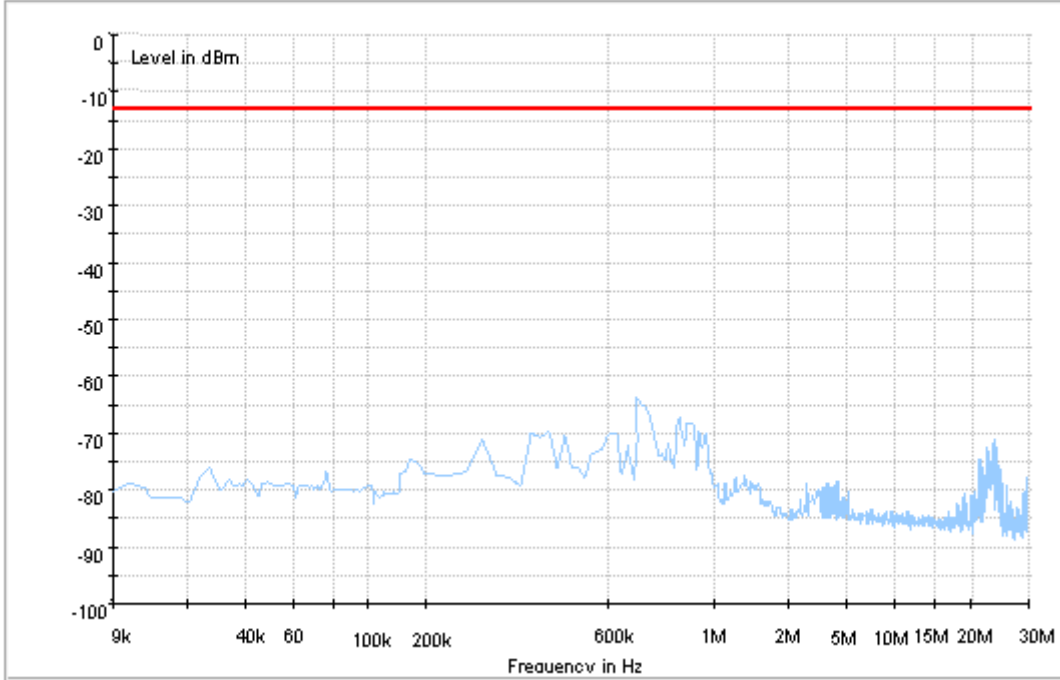


Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_H

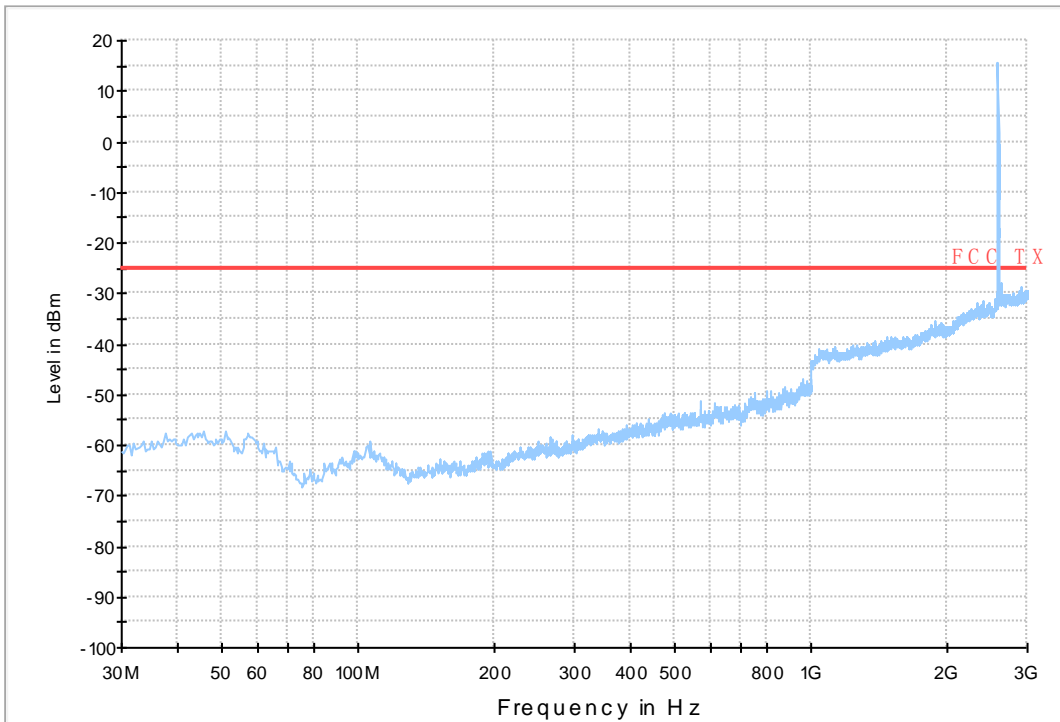




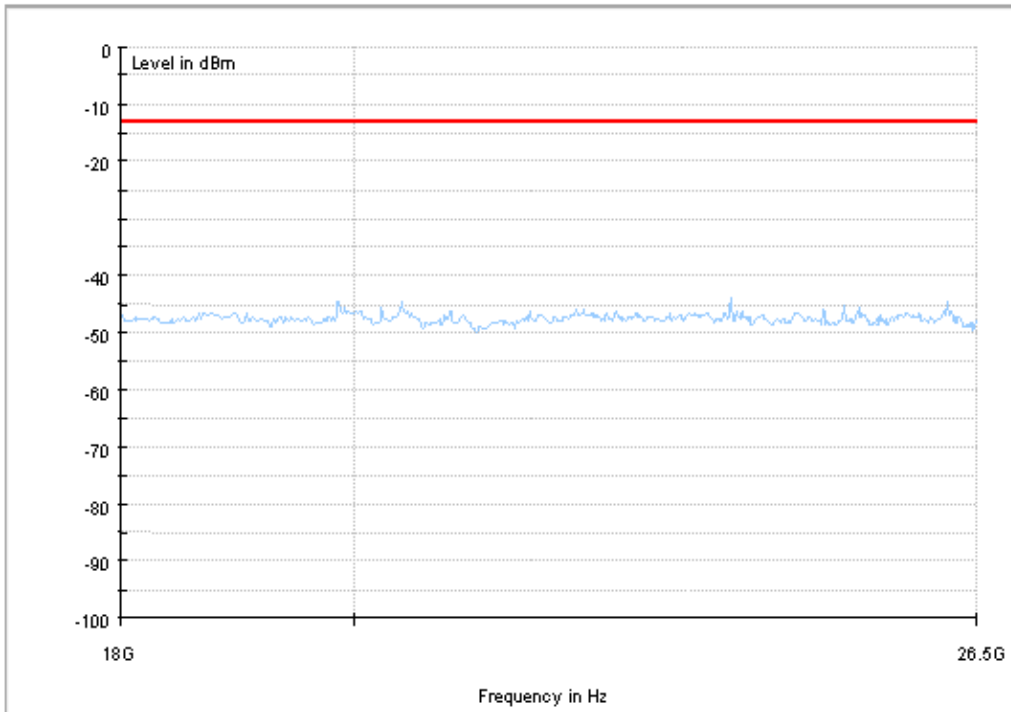
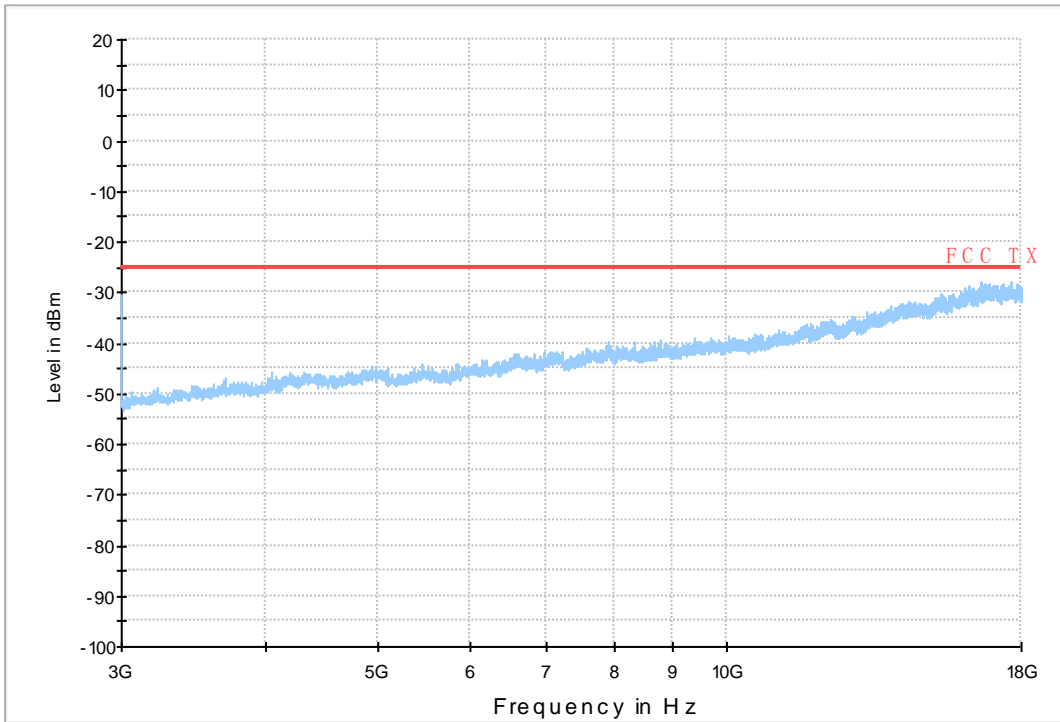
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L

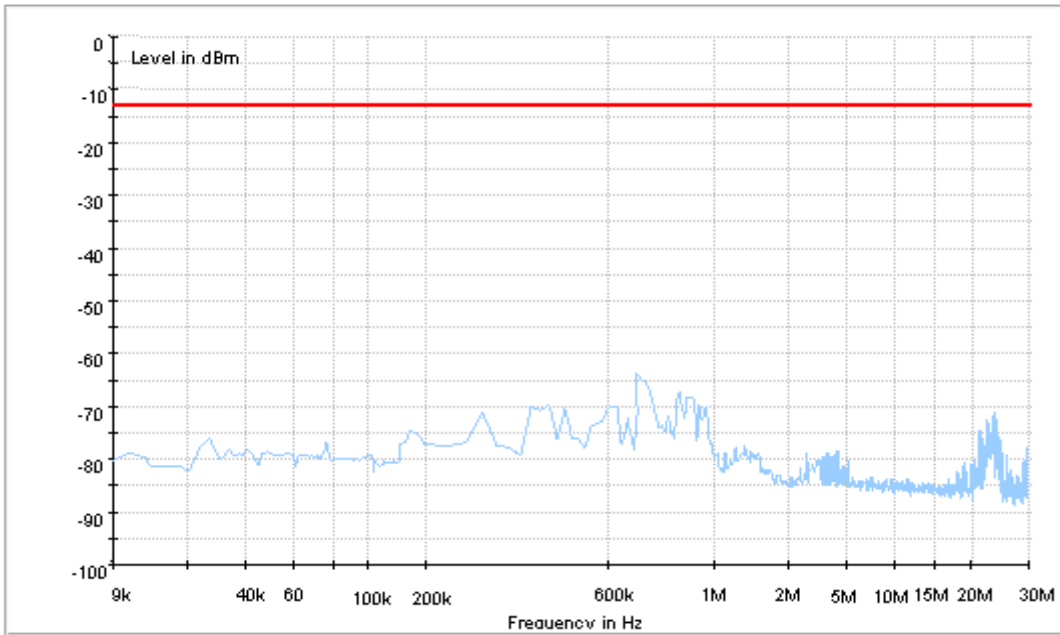


Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_H

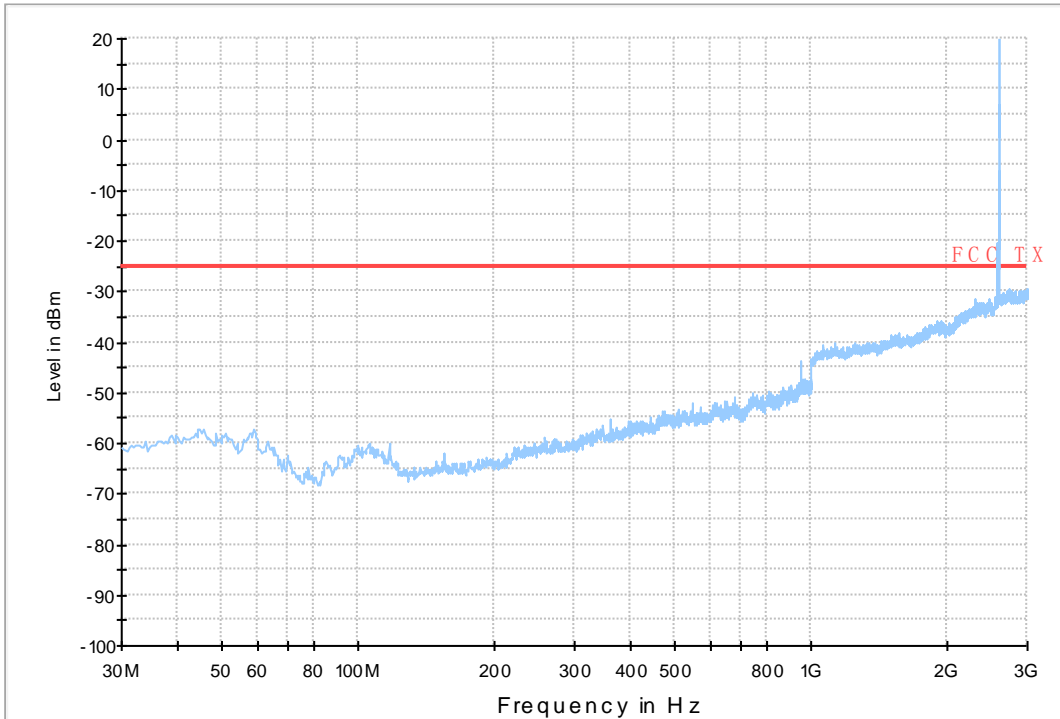


7.1.2 Test Band = BAND38_Ant2

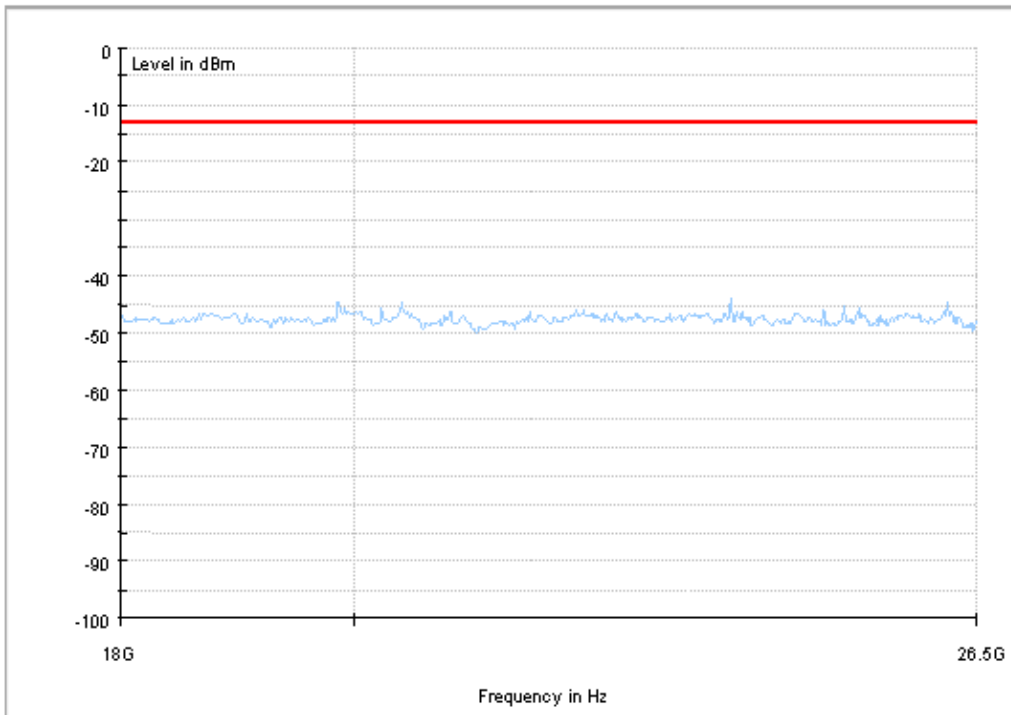
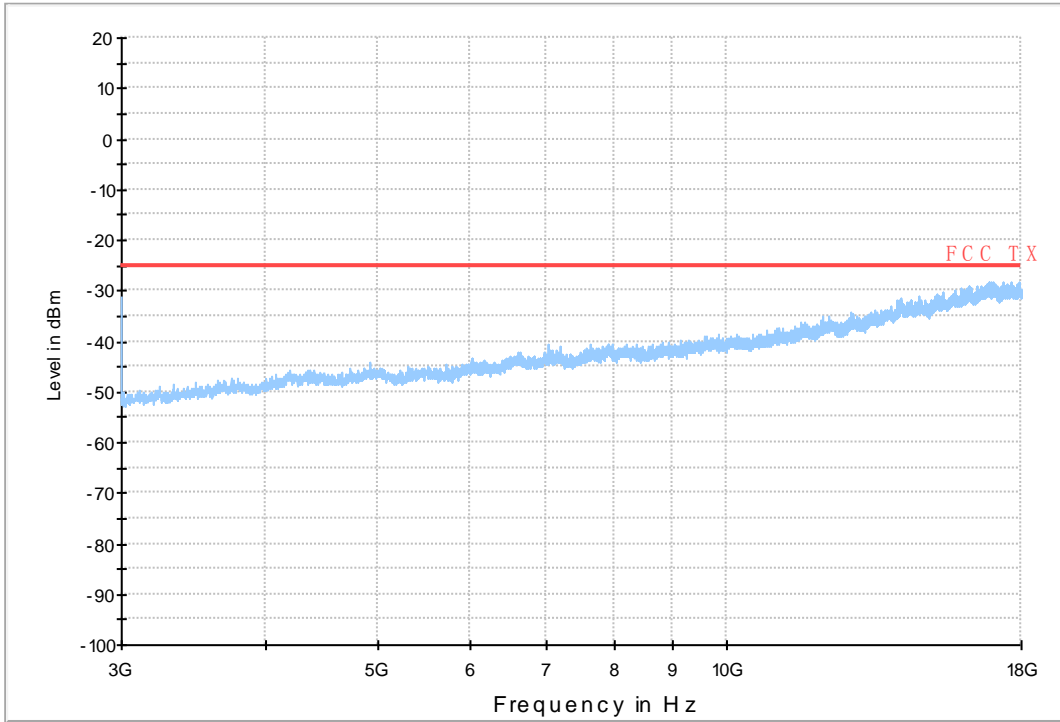
7.1.2.1 Test Bandwidth = 5



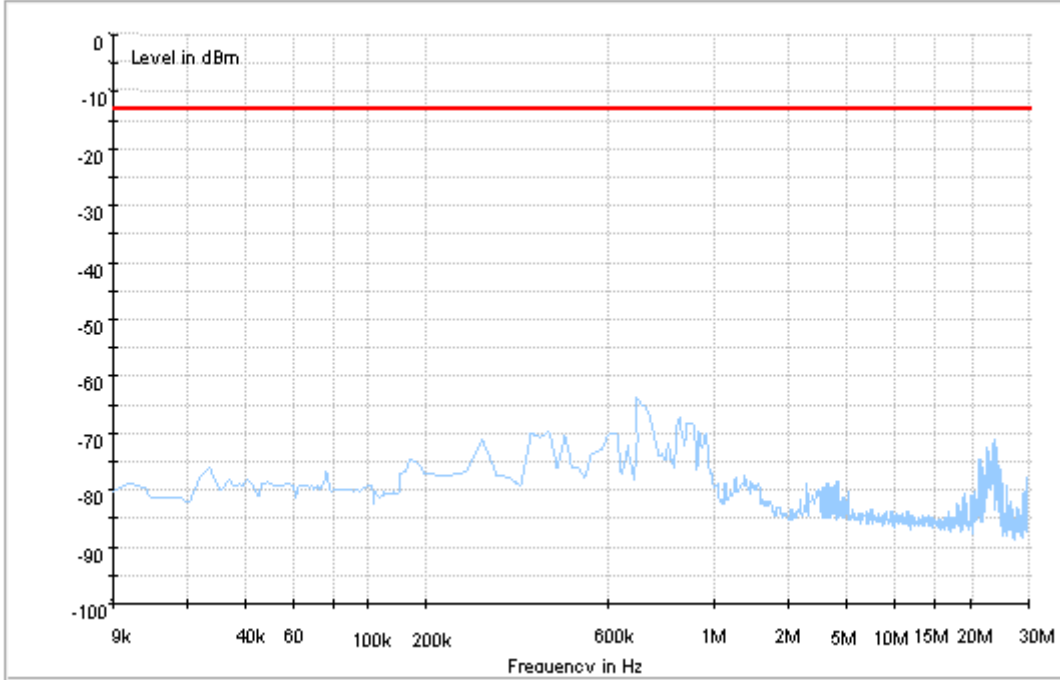
Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L



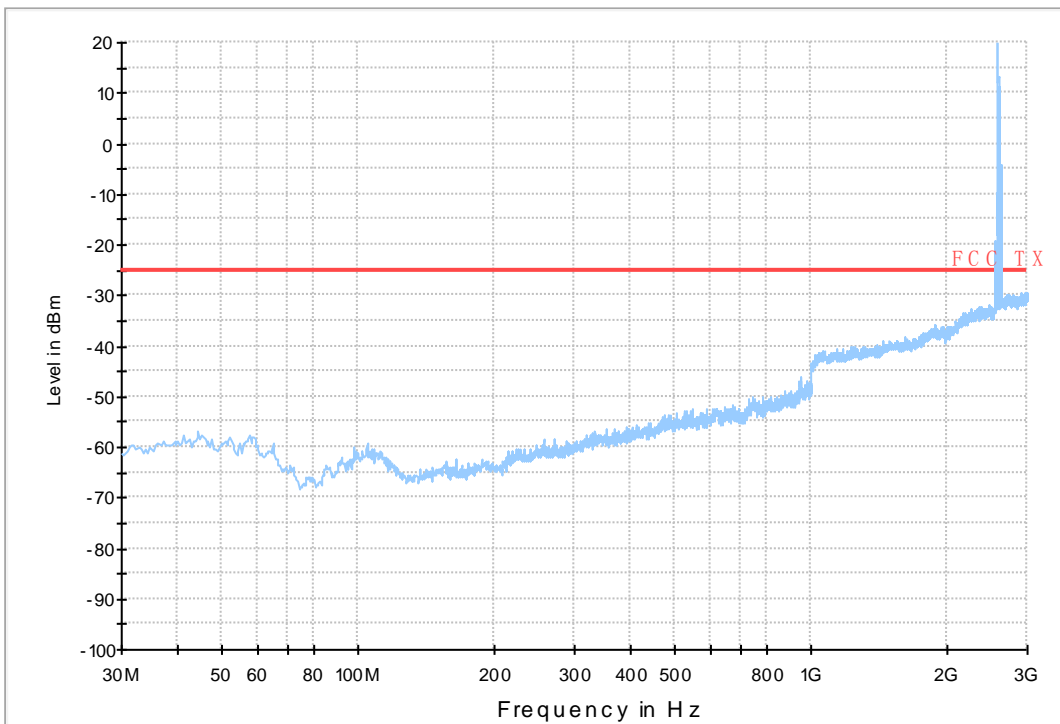
Copy of R SE-TX-DIRECTOR ABOVE 1.5G Limit -25_H



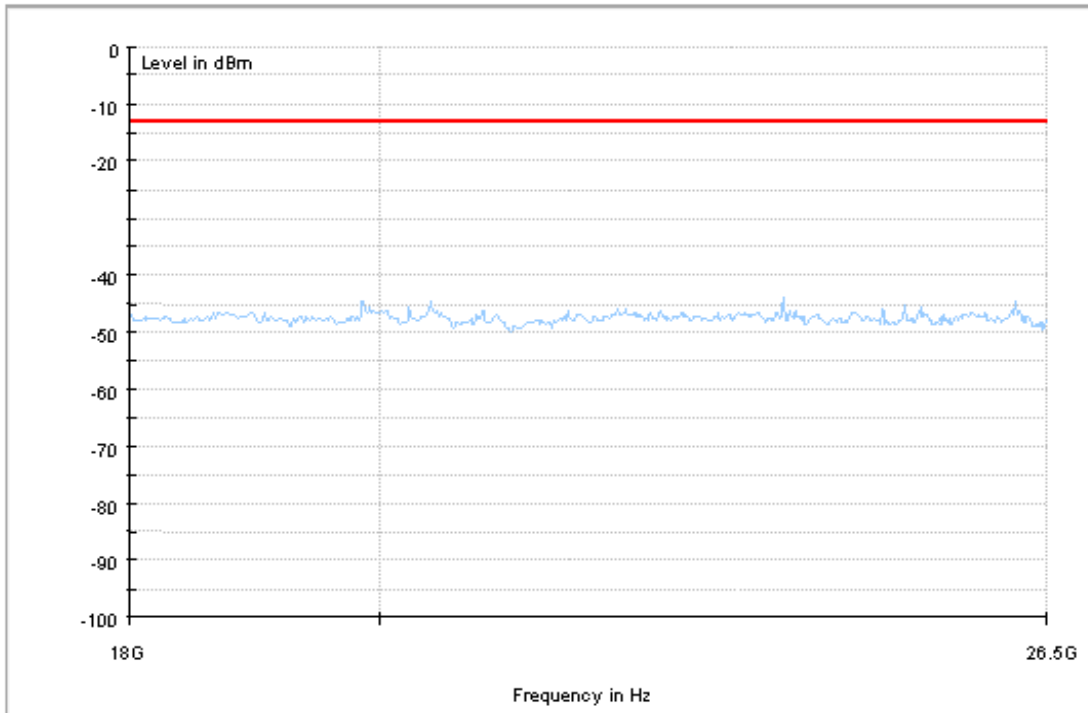
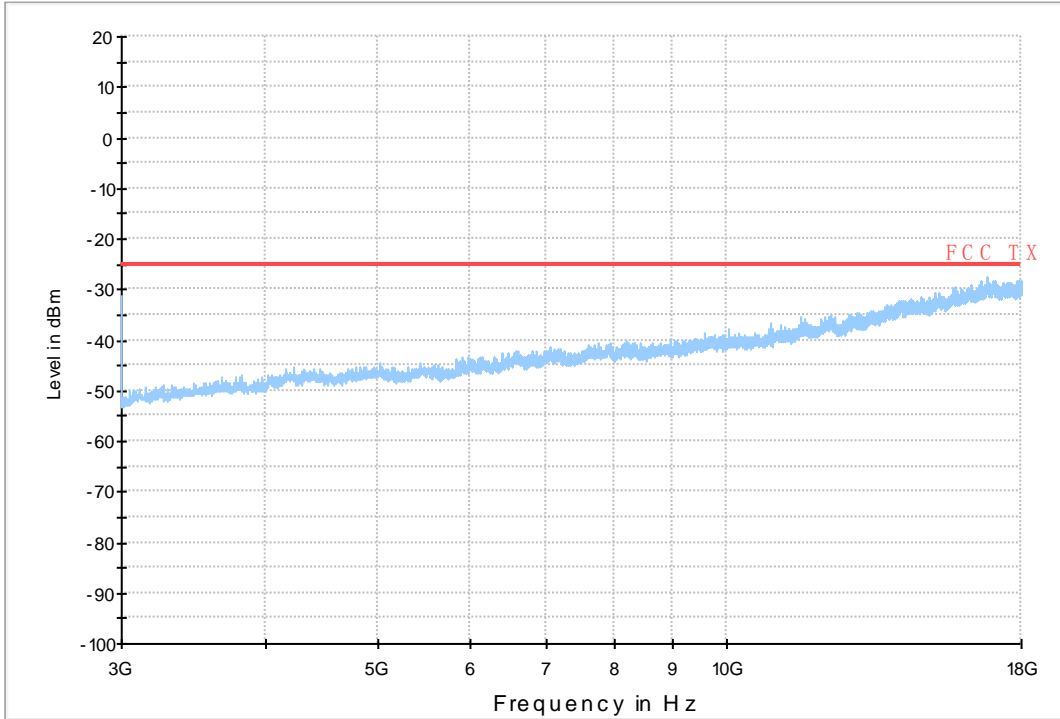
7.1.2.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_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
BAND38	LTE/TM1	5	LCH	TN	VL	13.16	0.00512	PASS
					VN	7.45	0.0029	PASS
					VH	3.26	0.00127	PASS
			MCH	TN	VL	0.24	0.00009	PASS
					VN	-2.07	-0.0008	PASS
					VH	-1.06	-0.00041	PASS
			HCH	TN	VL	1.16	0.00044	PASS
					VN	-3.78	-0.00144	PASS
					VH	-7.85	-0.003	PASS
		10	LCH	TN	VL	-1.42	-0.00055	PASS
					VN	-1.60	-0.00062	PASS
					VH	-4.15	-0.00161	PASS
			MCH	TN	VL	-0.80	-0.00031	PASS
					VN	-3.39	-0.00131	PASS
					VH	-4.86	-0.00187	PASS
			HCH	TN	VL	-4.21	-0.00161	PASS
					VN	0.36	0.00014	PASS
					VH	-3.00	-0.00115	PASS
		15	LCH	TN	VL	-1.66	-0.00064	PASS
					VN	-1.57	-0.00061	PASS
					VH	-2.05	-0.0008	PASS
			MCH	TN	VL	-6.05	-0.00233	PASS
					VN	-5.84	-0.00225	PASS
					VH	-6.64	-0.00256	PASS
			HCH	TN	VL	-5.19	-0.00199	PASS
					VN	-3.46	-0.00132	PASS
					VH	-3.32	-0.00127	PASS
		20	LCH	TN	VL	-5.56	-0.00216	PASS
					VN	-0.16	-0.00006	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VH	-3.03	-0.00117	PASS
					VL	-2.42	-0.00093	PASS
					VN	-2.22	-0.00086	PASS
			HCH	TN	VH	-3.76	-0.00145	PASS
					VL	-4.65	-0.00178	PASS
					VN	0.20	0.00008	PASS
		5	LCH	TN	VH	0.84	0.00032	PASS
					VL	-6.48	-0.00252	PASS
					VN	-11.99	-0.00466	PASS
			MCH	TN	VH	-8.75	-0.0034	PASS
					VL	-32.16	-0.01239	PASS
					VN	-5.55	-0.00214	PASS
	HCH		TN	VH	-1.90	-0.00073	PASS	
				VL	-6.72	-0.00257	PASS	
				VN	-3.13	-0.0012	PASS	
	10		LCH	TN	VH	-4.53	-0.00173	PASS
					VL	-4.38	-0.0017	PASS
					VN	-3.02	-0.00117	PASS
			MCH	TN	VH	-3.10	-0.0012	PASS
					VL	-5.31	-0.00205	PASS
					VN	-9.14	-0.00352	PASS
			HCH	TN	VH	-6.07	-0.00234	PASS
					VL	-6.92	-0.00265	PASS
					VN	-1.67	-0.00064	PASS
	15	LCH	TN	VH	0.07	0.00003	PASS	
				VL	-2.63	-0.00102	PASS	
				VN	-0.84	-0.00033	PASS	
		MCH	TN	VH	-1.80	-0.0007	PASS	
				VL	-1.17	-0.00045	PASS	
				VN	-2.13	-0.00082	PASS	
		HCH	TN	VH	-5.66	-0.00218	PASS	
				VL	-4.98	-0.00191	PASS	
				VN	-2.73	-0.00104	PASS	
	20	LCH	TN	VH	-4.71	-0.0018	PASS	
				VL	-4.59	-0.00178	PASS	
				VN	-2.43	-0.00094	PASS	
		MCH	TN	VH	-2.70	-0.00105	PASS	
				VL	-1.47	-0.00057	PASS	
				VN	-0.89	-0.00034	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	-2.65	-0.00102	PASS
			HCH	TN	VL	-4.18	-0.0016	PASS
					VN	-2.90	-0.00111	PASS
					VH	-1.79	-0.00069	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND38	-30	LTE/TM1	5	LCH	VN	-6.75	-0.00262	PASS
				MCH	VN	-0.93	-0.00036	PASS
				HCH	VN	-5.26	-0.00201	PASS
			10	LCH	VN	12.83	0.00498	PASS
				MCH	VN	13.65	0.00526	PASS
				HCH	VN	0.07	0.00003	PASS
		15	LCH	VN	-5.29	-0.00205	PASS	
			MCH	VN	0.44	0.00017	PASS	
			HCH	VN	-7.07	-0.00271	PASS	
		20	LCH	VN	-6.38	-0.00247	PASS	
			MCH	VN	-3.43	-0.00132	PASS	
			HCH	VN	-6.32	-0.00242	PASS	
	-20	LTE/TM2	5	LCH	VN	-5.82	-0.00226	PASS
				MCH	VN	-4.63	-0.00178	PASS
				HCH	VN	-0.72	-0.00028	PASS
			10	LCH	VN	-2.43	-0.00094	PASS
				MCH	VN	0.43	0.00017	PASS
				HCH	VN	-5.12	-0.00196	PASS
		15	LCH	VN	-3.62	-0.0014	PASS	
			MCH	VN	-3.73	-0.00144	PASS	
			HCH	VN	-3.03	-0.00116	PASS	
		20	LCH	VN	-4.16	-0.00161	PASS	
			MCH	VN	-3.68	-0.00142	PASS	
			HCH	VN	-6.61	-0.00253	PASS	
-20	LTE/TM1	5	LCH	VN	-2.10	-0.00082	PASS	
			MCH	VN	-6.49	-0.0025	PASS	
			HCH	VN	-9.13	-0.00349	PASS	
		10	LCH	VN	-3.08	-0.0012	PASS	
			MCH	VN	-1.06	-0.00041	PASS	

		LTE/TM2	15	HCH	VN	-4.09	-0.00156	PASS	
				LCH	VN	-5.88	-0.00228	PASS	
				MCH	VN	-4.89	-0.00188	PASS	
			20	HCH	VN	-1.93	-0.00074	PASS	
				LCH	VN	-5.97	-0.00231	PASS	
				MCH	VN	-1.47	-0.00057	PASS	
			LTE/TM2	5	HCH	VN	-5.41	-0.00207	PASS
					LCH	VN	-6.64	-0.00258	PASS
					MCH	VN	-9.71	-0.00374	PASS
				10	HCH	VN	-5.69	-0.00217	PASS
					LCH	VN	-1.57	-0.00061	PASS
					MCH	VN	-4.06	-0.00156	PASS
		15		HCH	VN	-3.52	-0.00135	PASS	
				LCH	VN	-5.34	-0.00207	PASS	
				MCH	VN	-2.15	-0.00083	PASS	
		20		HCH	VN	-2.15	-0.00082	PASS	
				LCH	VN	-3.19	-0.00124	PASS	
				MCH	VN	-10.04	-0.00387	PASS	
		LTE/TM1	5	HCH	VN	-1.16	-0.00044	PASS	
				LCH	VN	-5.89	-0.00229	PASS	
				MCH	VN	-3.79	-0.00146	PASS	
			10	HCH	VN	-7.12	-0.00272	PASS	
				LCH	VN	-4.61	-0.00179	PASS	
				MCH	VN	-4.88	-0.00188	PASS	
			15	HCH	VN	-3.29	-0.00126	PASS	
				LCH	VN	-7.64	-0.00296	PASS	
				MCH	VN	2.02	0.00078	PASS	
			20	HCH	VN	-4.75	-0.00182	PASS	
				LCH	VN	11.97	0.00464	PASS	
				MCH	VN	-8.05	-0.0031	PASS	
		LTE/TM2	5	HCH	VN	-1.83	-0.0007	PASS	
				LCH	VN	-7.55	-0.00293	PASS	
				MCH	VN	-6.31	-0.00243	PASS	
			10	HCH	VN	-5.29	-0.00202	PASS	
				LCH	VN	-17.55	-0.00682	PASS	
				MCH	VN	0.23	0.00009	PASS	
			15	HCH	VN	-6.05	-0.00231	PASS	
				LCH	VN	-2.92	-0.00113	PASS	
				MCH	VN	-1.65	-0.00064	PASS	
			20	HCH	VN	-3.62	-0.00139	PASS	
			LCH	VN	-0.63	-0.00024	PASS		



	0	LTE/TM1	5	MCH	VN	6.72	0.00259	PASS
				HCH	VN	2.27	0.00087	PASS
				LCH	VN	-9.58	-0.00372	PASS
			10	MCH	VN	-5.46	-0.0021	PASS
				HCH	VN	-3.46	-0.00132	PASS
				LCH	VN	-4.48	-0.00174	PASS
			15	MCH	VN	-6.68	-0.00257	PASS
				HCH	VN	-1.90	-0.00073	PASS
				LCH	VN	-0.93	-0.00036	PASS
			20	MCH	VN	0.56	0.00022	PASS
				HCH	VN	-2.80	-0.00107	PASS
				LCH	VN	-6.18	-0.0024	PASS
		LTE/TM2	5	LCH	VN	-7.20	-0.0028	PASS
				MCH	VN	-4.88	-0.00188	PASS
				HCH	VN	-5.19	-0.00198	PASS
			10	LCH	VN	3.48	0.00135	PASS
				MCH	VN	-2.36	-0.00091	PASS
				HCH	VN	-0.86	-0.00033	PASS
			15	LCH	VN	-1.40	-0.00054	PASS
				MCH	VN	-2.35	-0.00091	PASS
				HCH	VN	-4.98	-0.00191	PASS
			20	LCH	VN	-2.30	-0.00089	PASS
				MCH	VN	-3.39	-0.00131	PASS
				HCH	VN	-1.44	-0.00055	PASS
		LTE/TM1	5	LCH	VN	-5.85	-0.00227	PASS
				MCH	VN	3.76	0.00145	PASS
				HCH	VN	-0.64	-0.00024	PASS
			10	LCH	VN	-3.02	-0.00117	PASS
				MCH	VN	7.54	0.00291	PASS
				HCH	VN	-2.62	-0.001	PASS
15	LCH		VN	-5.05	-0.00196	PASS		
	MCH		VN	-1.87	-0.00072	PASS		
	HCH		VN	-6.90	-0.00264	PASS		
20	LCH		VN	-3.29	-0.00128	PASS		
	MCH		VN	1.43	0.00055	PASS		
	HCH		VN	-0.23	-0.00009	PASS		
LTE/TM2	5		LCH	VN	-3.91	-0.00152	PASS	
			MCH	VN	-9.16	-0.00353	PASS	
			HCH	VN	-0.94	-0.00036	PASS	

			10	LCH	VN	-3.78	-0.00147	PASS
				MCH	VN	-0.97	-0.00037	PASS
				HCH	VN	2.42	0.00093	PASS
			15	LCH	VN	-3.00	-0.00116	PASS
				MCH	VN	-5.76	-0.00222	PASS
				HCH	VN	-6.14	-0.00235	PASS
			20	LCH	VN	-7.61	-0.00295	PASS
				MCH	VN	-2.02	-0.00078	PASS
				HCH	VN	-3.08	-0.00118	PASS
	20	LTE/TM1	5	LCH	VN	1.77	0.00069	PASS
				MCH	VN	-5.94	-0.00229	PASS
				HCH	VN	-6.48	-0.00248	PASS
			10	LCH	VN	-5.12	-0.00199	PASS
				MCH	VN	-6.74	-0.0026	PASS
				HCH	VN	2.15	0.00082	PASS
			15	LCH	VN	-2.33	-0.0009	PASS
				MCH	VN	-5.32	-0.00205	PASS
				HCH	VN	-7.94	-0.00304	PASS
		20	LCH	VN	-3.18	-0.00123	PASS	
			MCH	VN	-0.67	-0.00026	PASS	
			HCH	VN	-0.31	-0.00012	PASS	
		LTE/TM2	5	LCH	VN	0.04	0.00002	PASS
				MCH	VN	-8.11	-0.00313	PASS
				HCH	VN	-9.11	-0.00348	PASS
			10	LCH	VN	-9.28	-0.0036	PASS
				MCH	VN	-6.55	-0.00252	PASS
				HCH	VN	-22.09	-0.00845	PASS
	15		LCH	VN	3.79	0.00147	PASS	
			MCH	VN	-7.05	-0.00272	PASS	
			HCH	VN	4.13	0.00158	PASS	
20	LCH	VN	-4.82	-0.00187	PASS			
	MCH	VN	-5.02	-0.00193	PASS			
	HCH	VN	-2.16	-0.00083	PASS			
30	LTE/TM1	5	LCH	VN	0.40	0.00016	PASS	
			MCH	VN	-4.81	-0.00185	PASS	
			HCH	VN	-3.52	-0.00134	PASS	
		10	LCH	VN	-4.96	-0.00193	PASS	
			MCH	VN	-3.60	-0.00139	PASS	
			HCH	VN	-2.09	-0.0008	PASS	
		15	LCH	VN	-6.02	-0.00234	PASS	
			MCH	VN	-2.85	-0.0011	PASS	

		LTE/TM2	20	HCH	VN	2.88	0.0011	PASS		
				LCH	VN	-8.87	-0.00344	PASS		
				MCH	VN	-4.09	-0.00158	PASS		
			5	HCH	VN	-2.15	-0.00082	PASS		
				LCH	VN	-19.93	-0.00775	PASS		
				MCH	VN	-4.82	-0.00186	PASS		
			10	HCH	VN	-7.61	-0.00291	PASS		
				LCH	VN	-4.13	-0.0016	PASS		
				MCH	VN	-1.50	-0.00058	PASS		
			15	HCH	VN	-0.50	-0.00019	PASS		
				LCH	VN	-3.79	-0.00147	PASS		
				MCH	VN	-2.46	-0.00095	PASS		
			20	HCH	VN	-5.42	-0.00207	PASS		
				LCH	VN	1.82	0.00071	PASS		
				MCH	VN	-3.23	-0.00124	PASS		
	40	LTE/TM1	5	HCH	VN	-2.17	-0.00083	PASS		
				LCH	VN	-11.40	-0.00443	PASS		
				MCH	VN	-4.68	-0.0018	PASS		
			10	HCH	VN	-6.01	-0.0023	PASS		
				LCH	VN	-4.19	-0.00163	PASS		
				MCH	VN	-6.57	-0.00253	PASS		
			15	HCH	VN	-5.39	-0.00206	PASS		
				LCH	VN	-4.11	-0.00159	PASS		
				MCH	VN	-2.17	-0.00084	PASS		
			20	HCH	VN	-3.28	-0.00126	PASS		
				LCH	VN	-4.89	-0.0019	PASS		
				MCH	VN	1.07	0.00041	PASS		
			40	LTE/TM2	5	HCH	VN	-4.51	-0.00173	PASS
						LCH	VN	-5.99	-0.00233	PASS
						MCH	VN	-7.41	-0.00286	PASS
	10	HCH			VN	-2.55	-0.00097	PASS		
		LCH			VN	0.49	0.00019	PASS		
		MCH			VN	-2.29	-0.00088	PASS		
	15	HCH			VN	-3.91	-0.0015	PASS		
		LCH			VN	-3.63	-0.00141	PASS		
		MCH			VN	2.23	0.00086	PASS		
	20	HCH			VN	-4.88	-0.00187	PASS		
		LCH			VN	-3.86	-0.0015	PASS		
		MCH			VN	-4.38	-0.00169	PASS		
	50	LTE/TM1			5	HCH	VN	-2.73	-0.00105	PASS
LCH						VN	-7.08	-0.00275	PASS	
MCH						VN	-4.38	-0.00169	PASS	

			10	MCH	VN	-8.90	-0.00343	PASS
				HCH	VN	-2.88	-0.0011	PASS
				LCH	VN	-4.19	-0.00163	PASS
				MCH	VN	-3.49	-0.00134	PASS
				HCH	VN	-2.36	-0.0009	PASS
				LCH	VN	-5.58	-0.00216	PASS
			15	MCH	VN	-6.67	-0.00257	PASS
				HCH	VN	-5.62	-0.00215	PASS
				LCH	VN	-3.33	-0.00129	PASS
			20	MCH	VN	-3.62	-0.00139	PASS
				HCH	VN	-1.66	-0.00064	PASS
				LCH	VN	-8.81	-0.00342	PASS
		LTE/TM2	5	MCH	VN	-14.12	-0.00544	PASS
				HCH	VN	-19.68	-0.00752	PASS
				LCH	VN	-5.18	-0.00201	PASS
			10	MCH	VN	-2.79	-0.00108	PASS
				HCH	VN	-10.69	-0.00409	PASS
				LCH	VN	-0.57	-0.00022	PASS
			15	MCH	VN	-1.75	-0.00067	PASS
				HCH	VN	-5.19	-0.00199	PASS
				LCH	VN	-4.22	-0.00164	PASS
			20	MCH	VN	-3.20	-0.00123	PASS
				HCH	VN	-2.13	-0.00082	PASS
				LCH	VN	-4.22	-0.00164	PASS

END