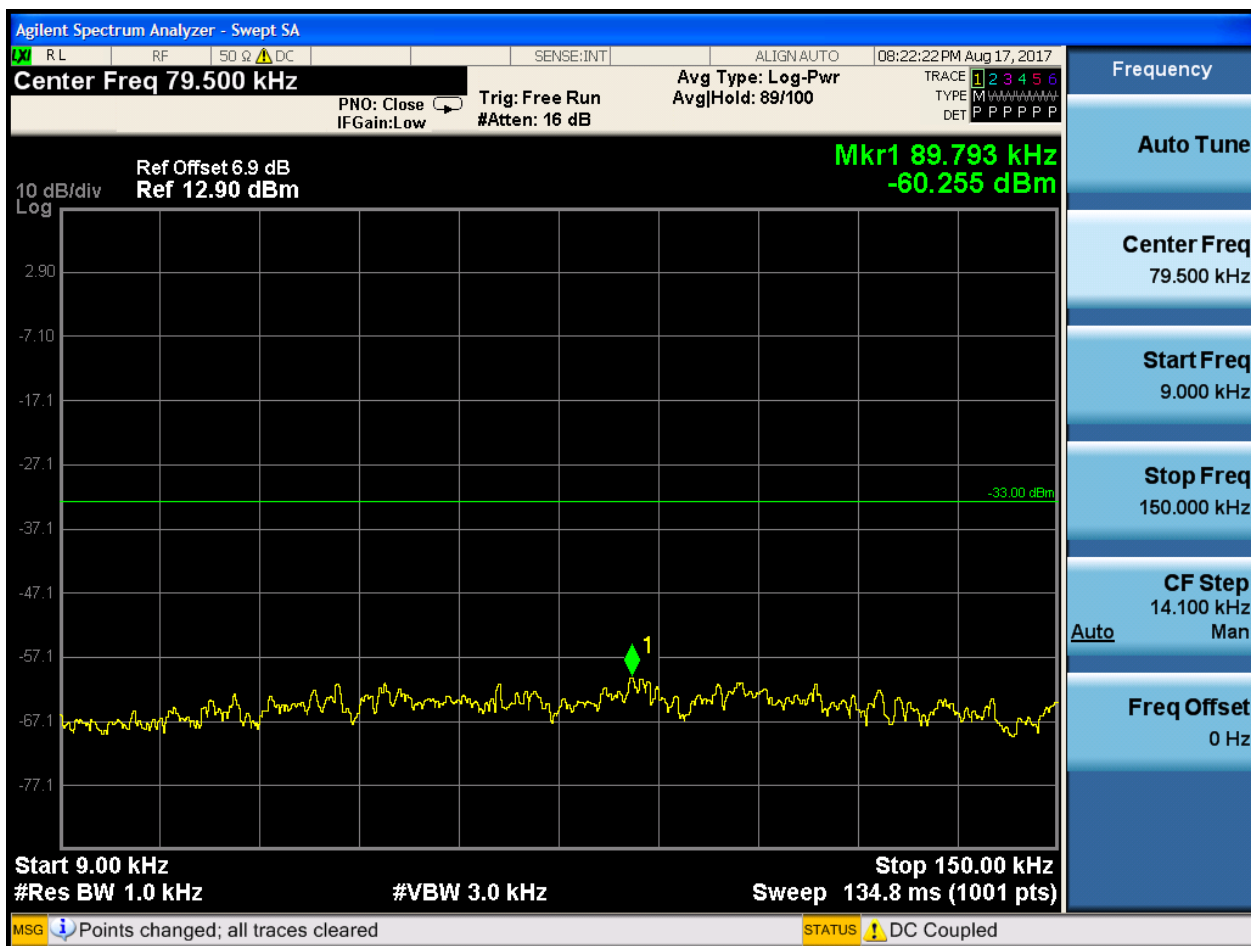
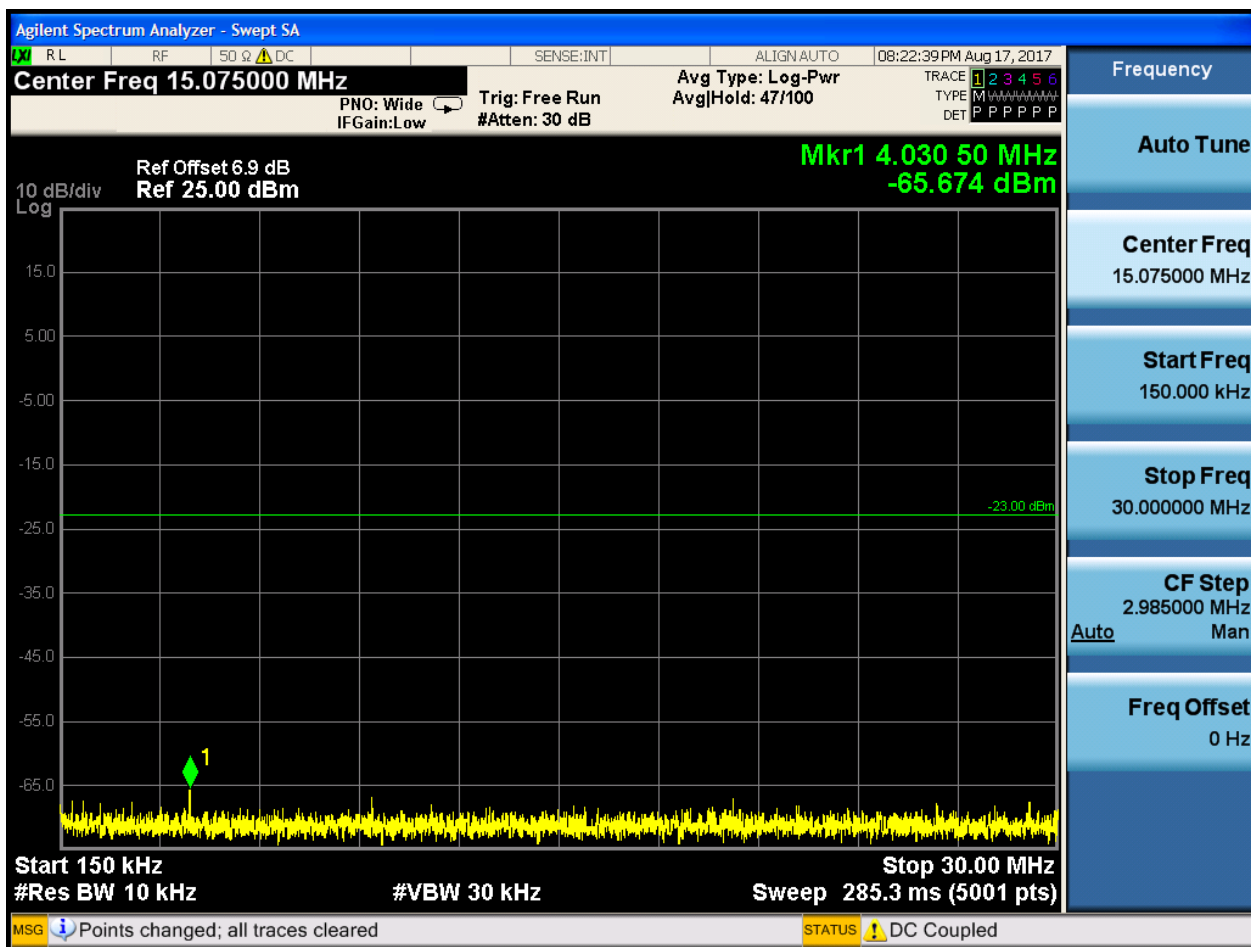
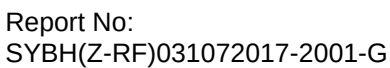


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



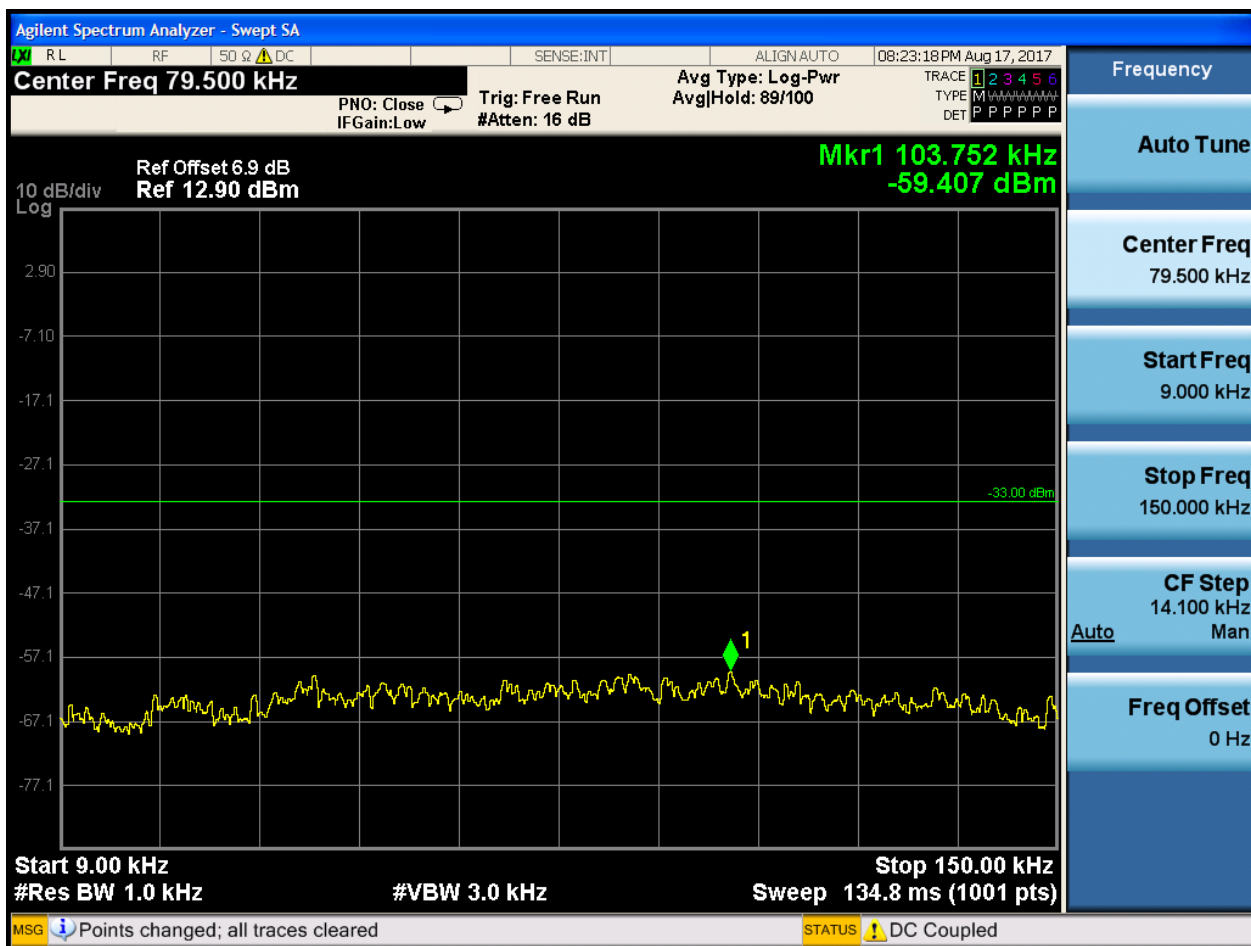


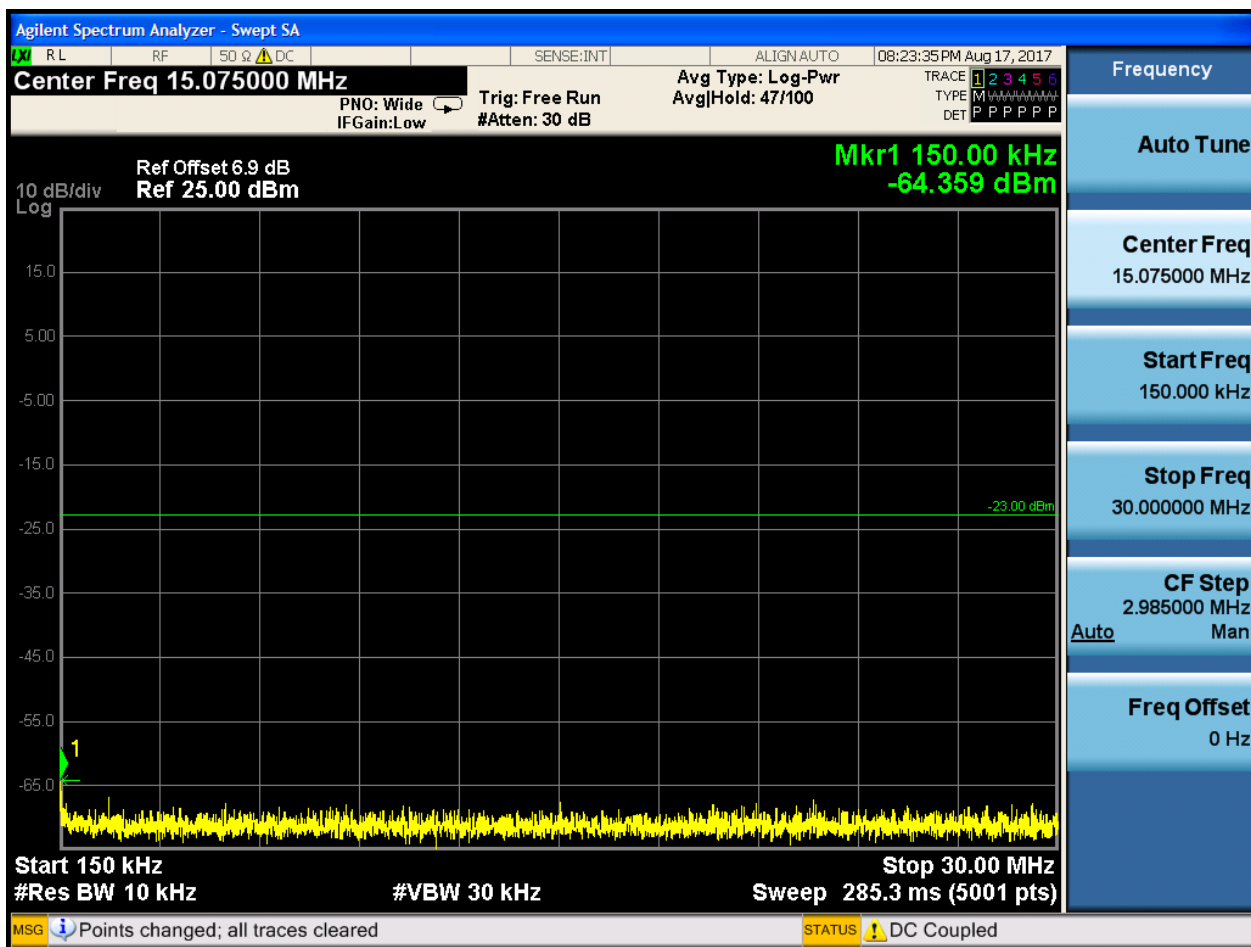


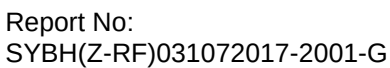


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



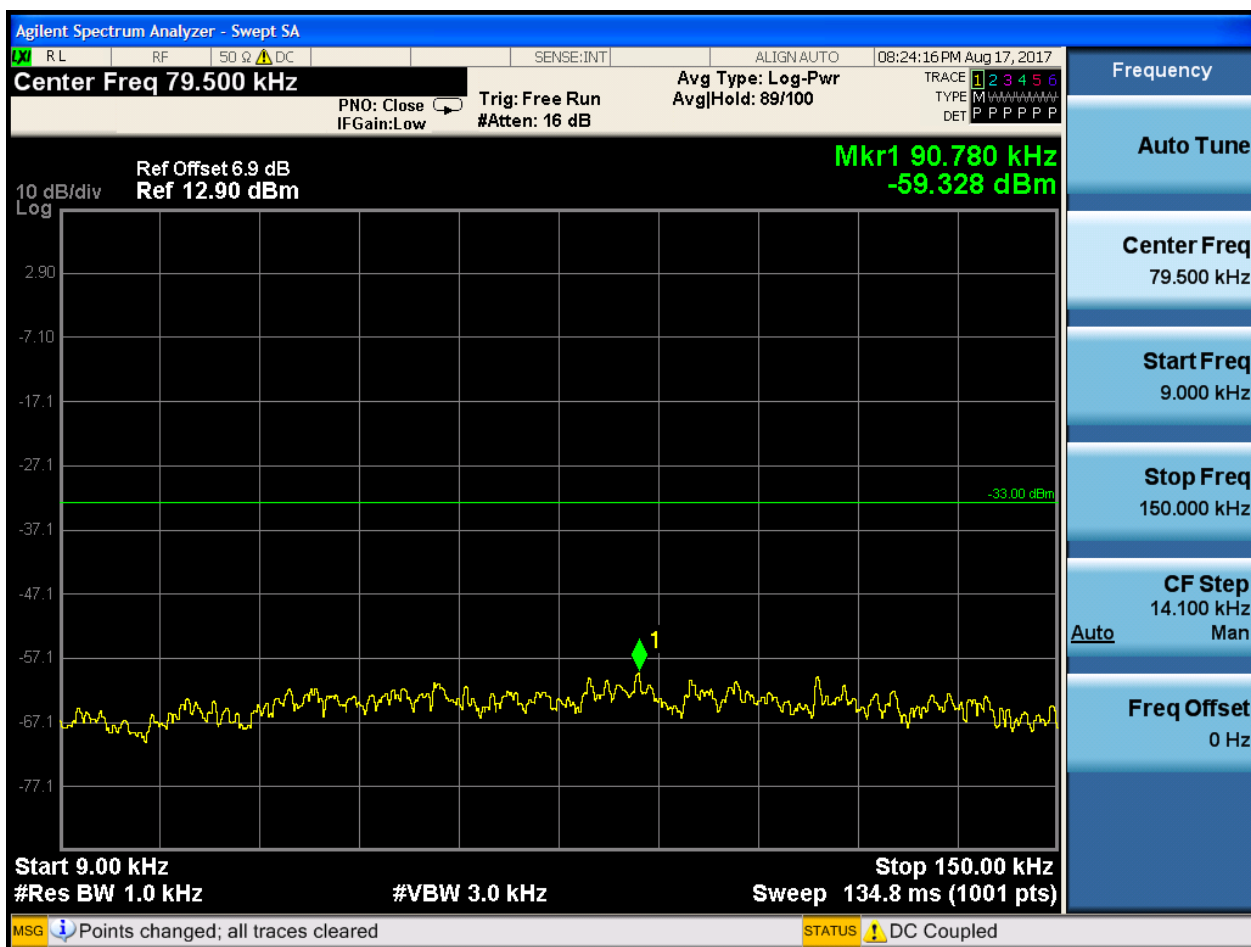


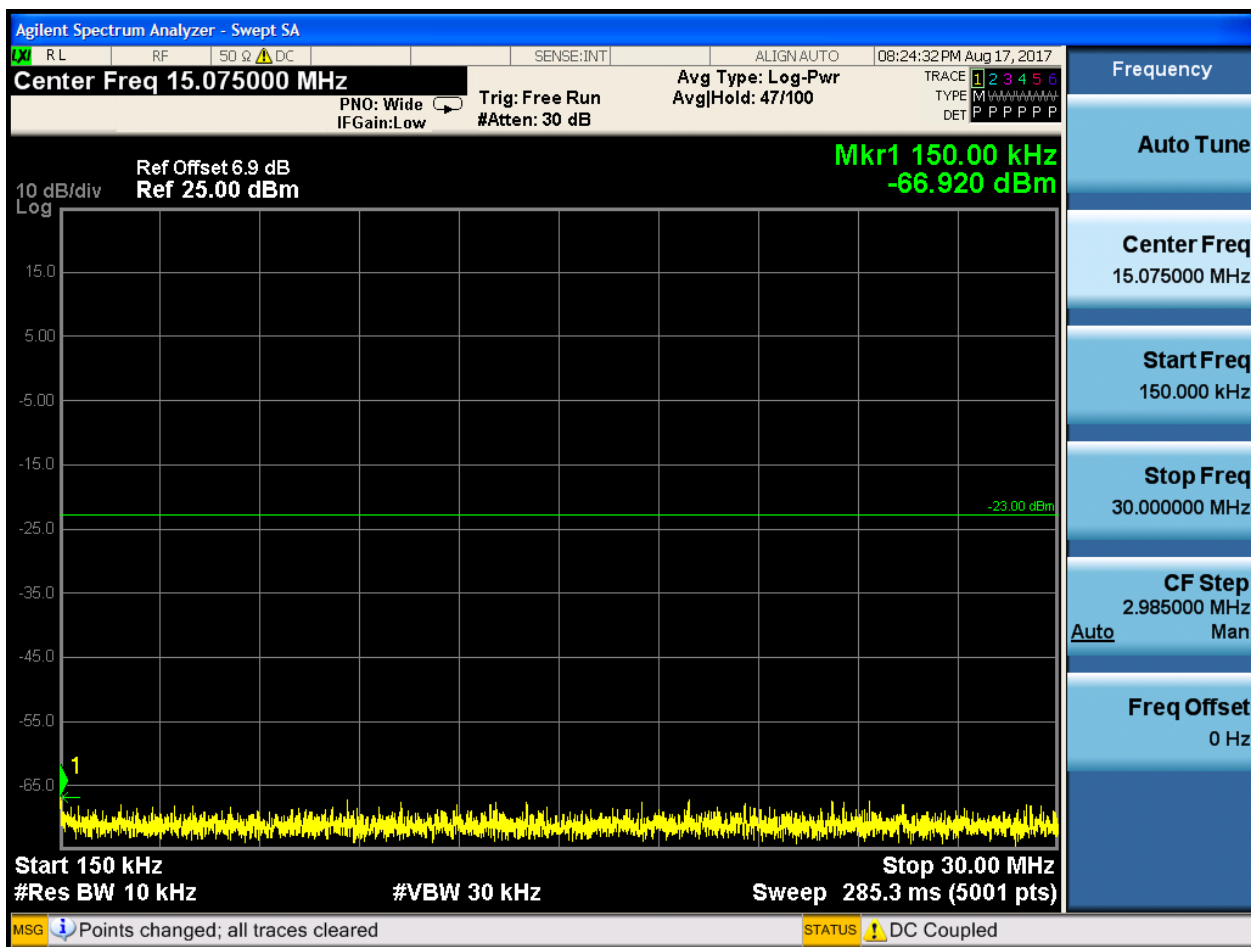


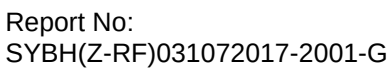
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

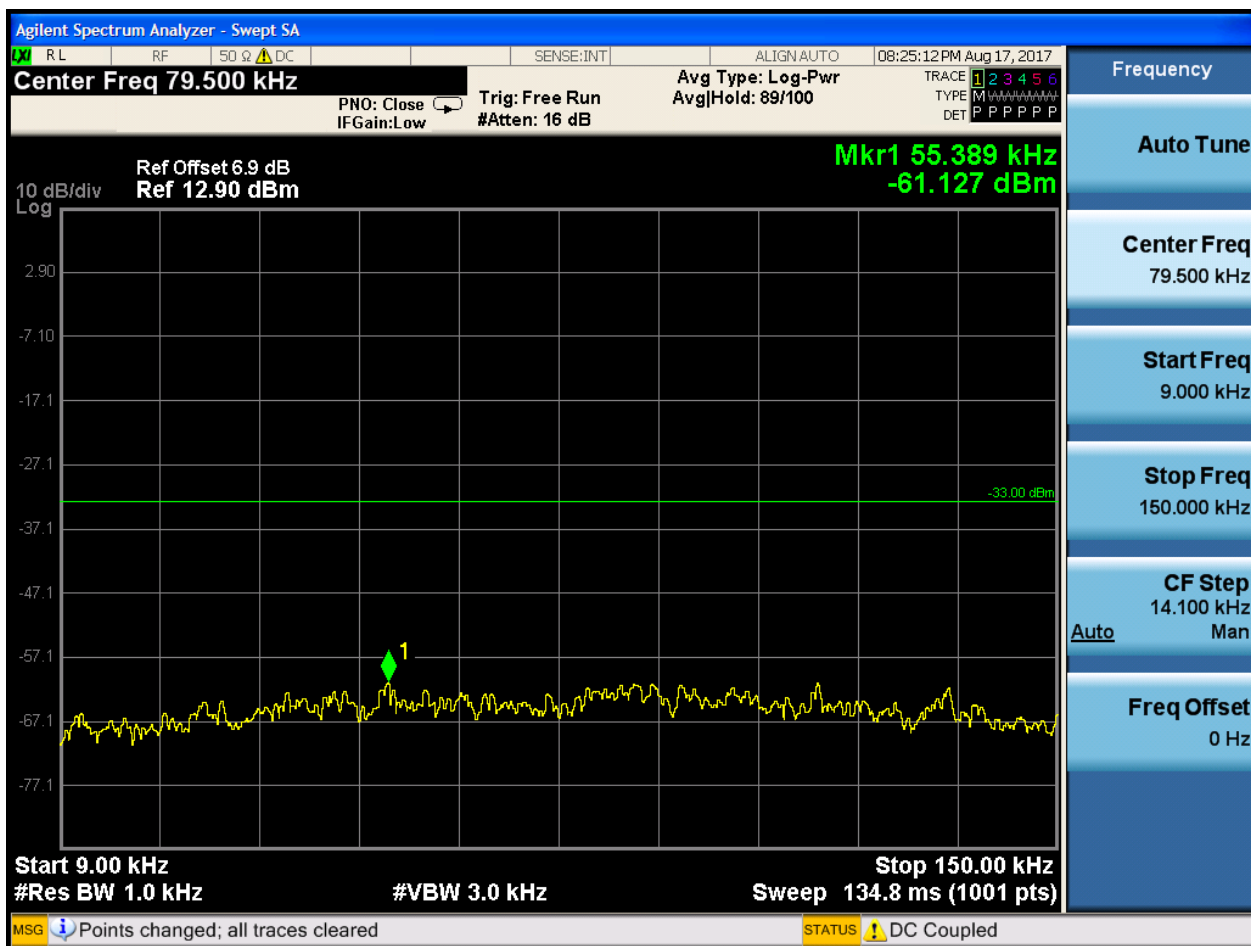


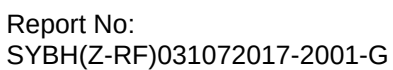


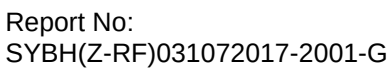


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

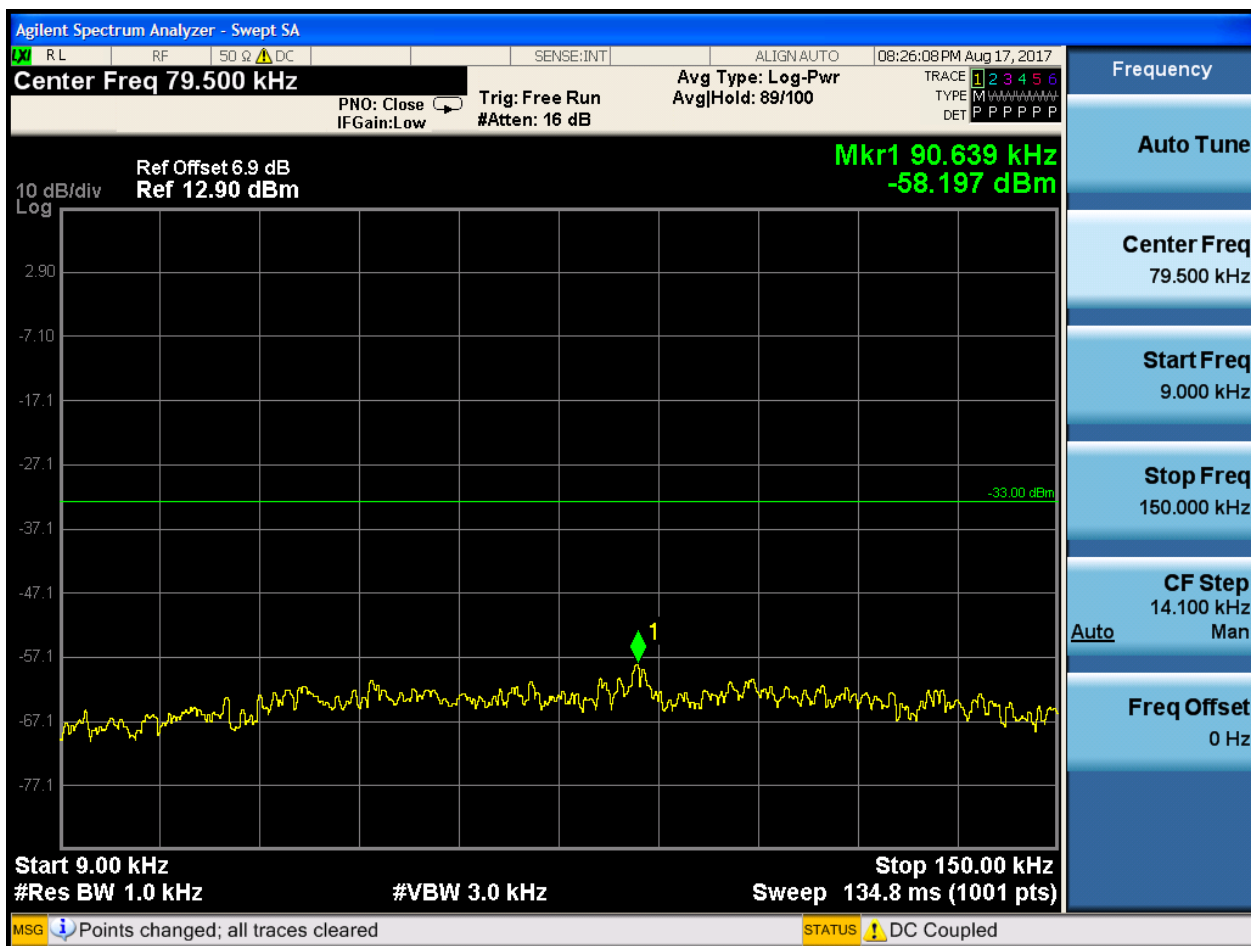


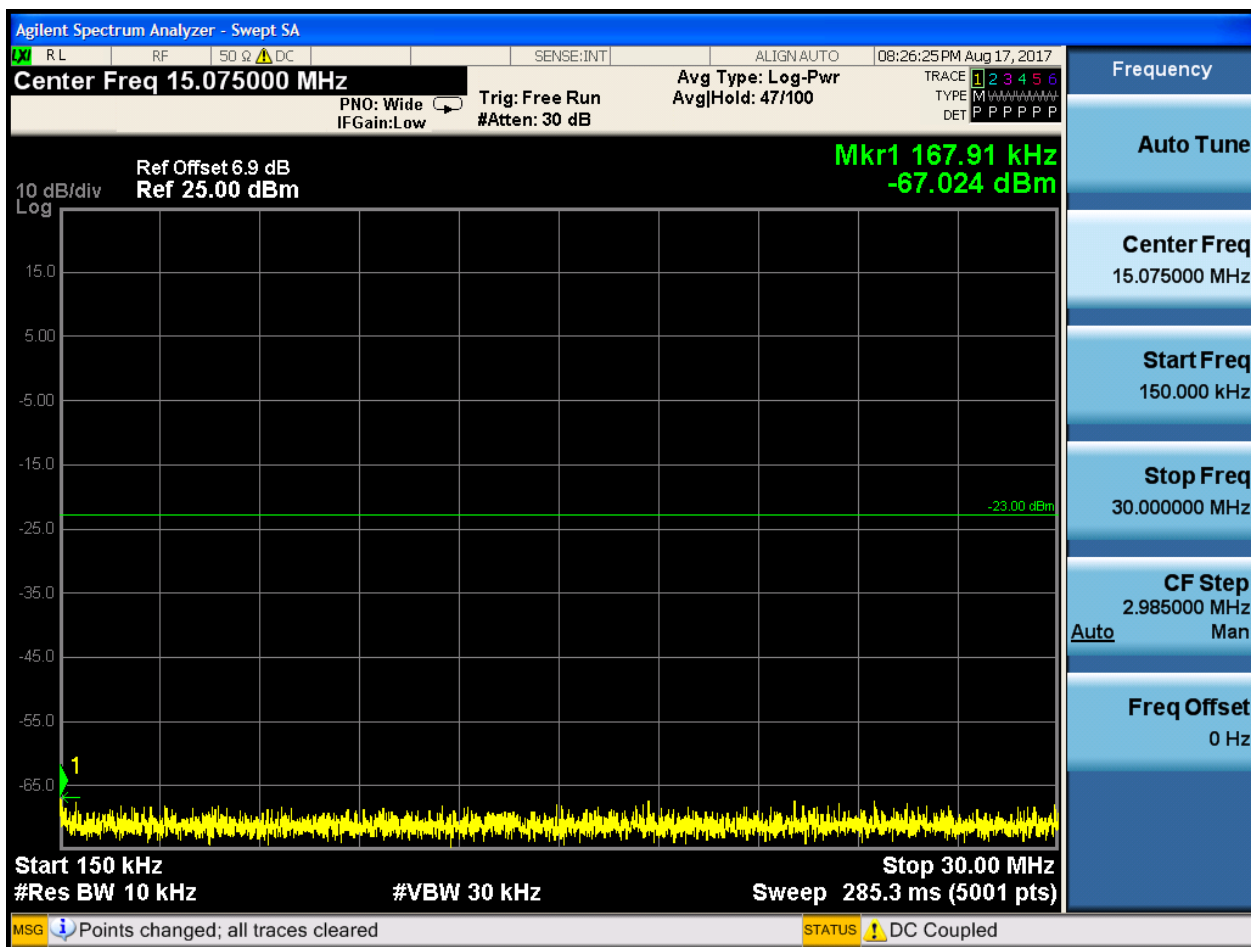


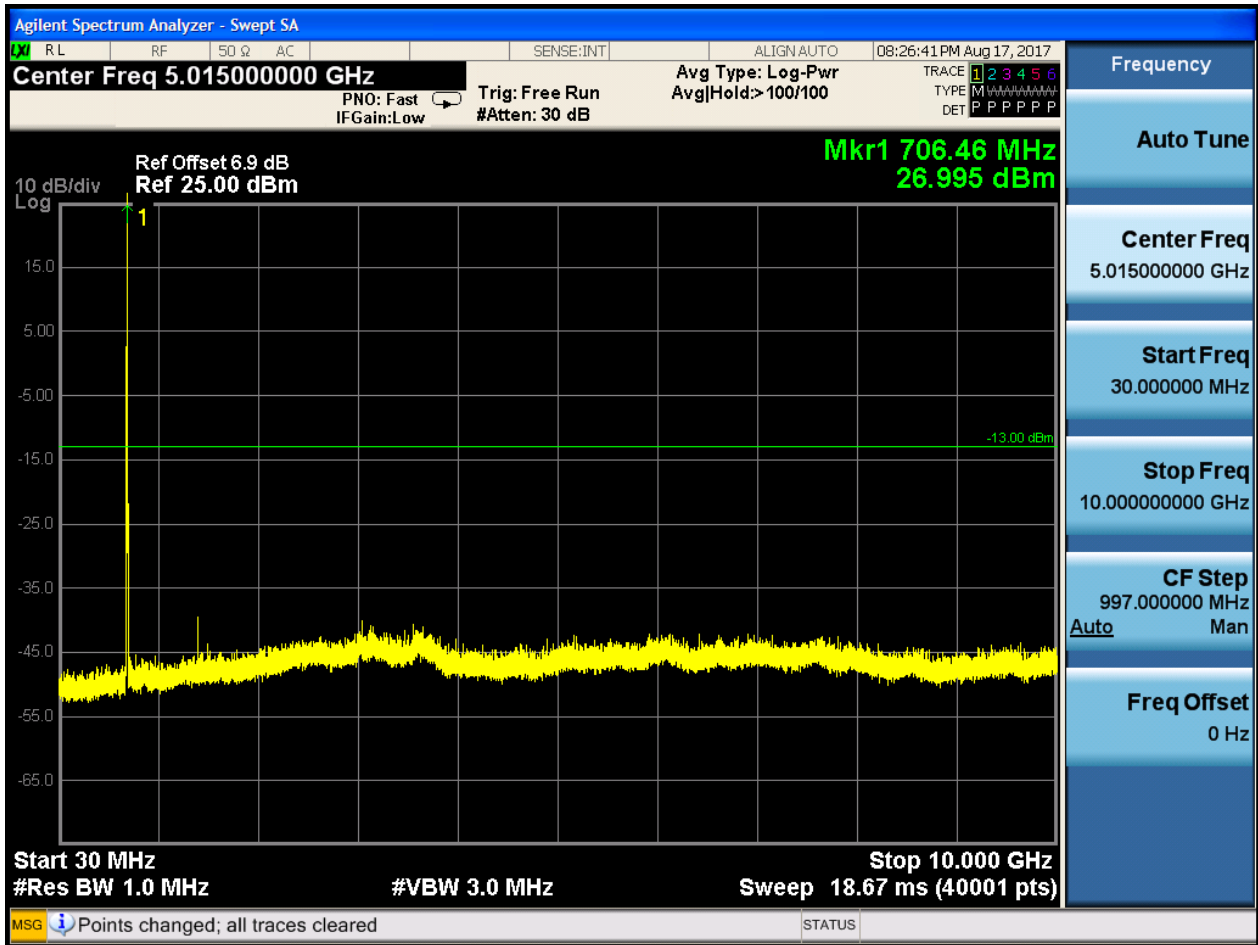


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0





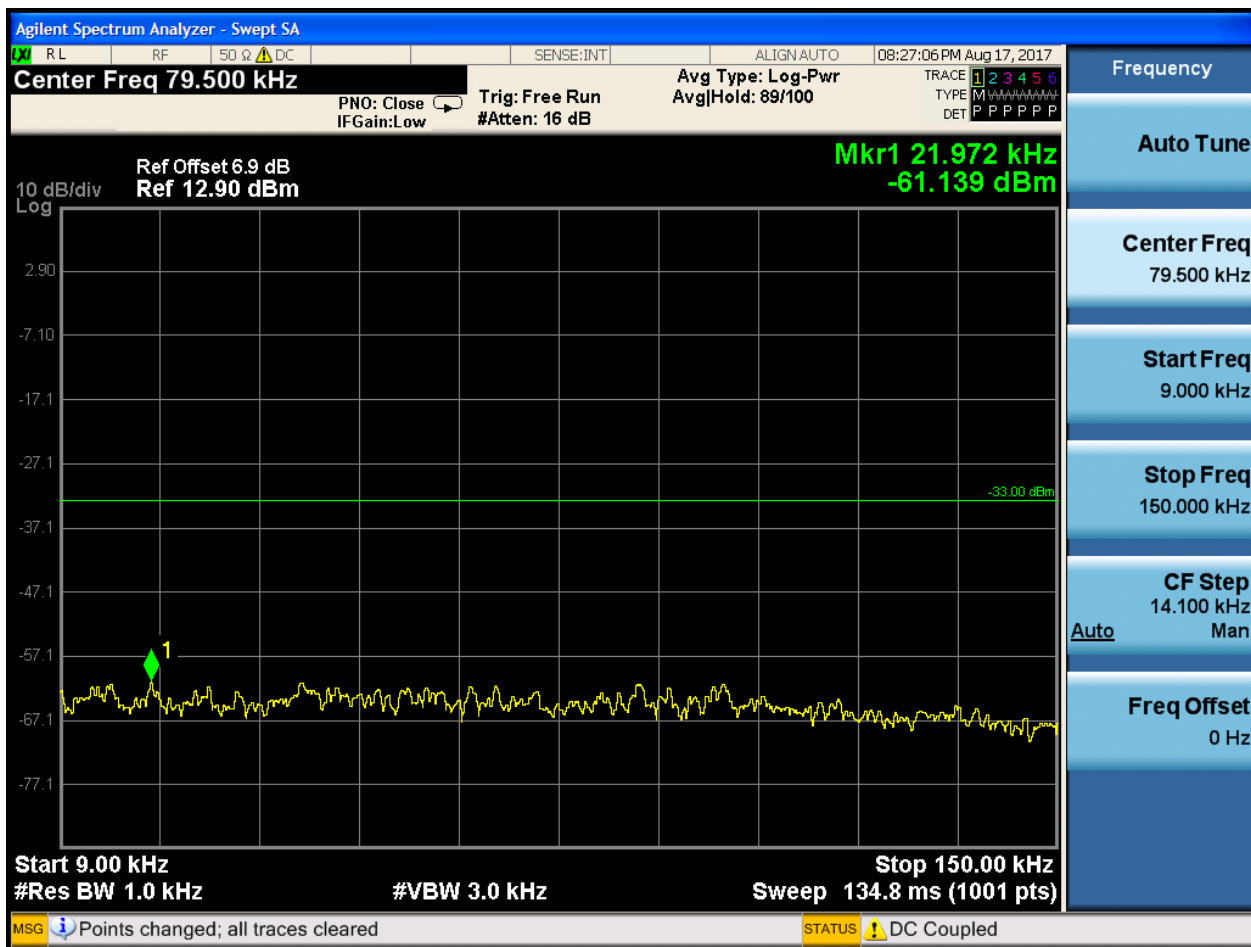


6.1.1.2 Test Mode = LTE/TM2

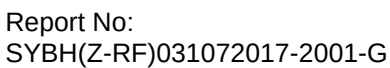
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



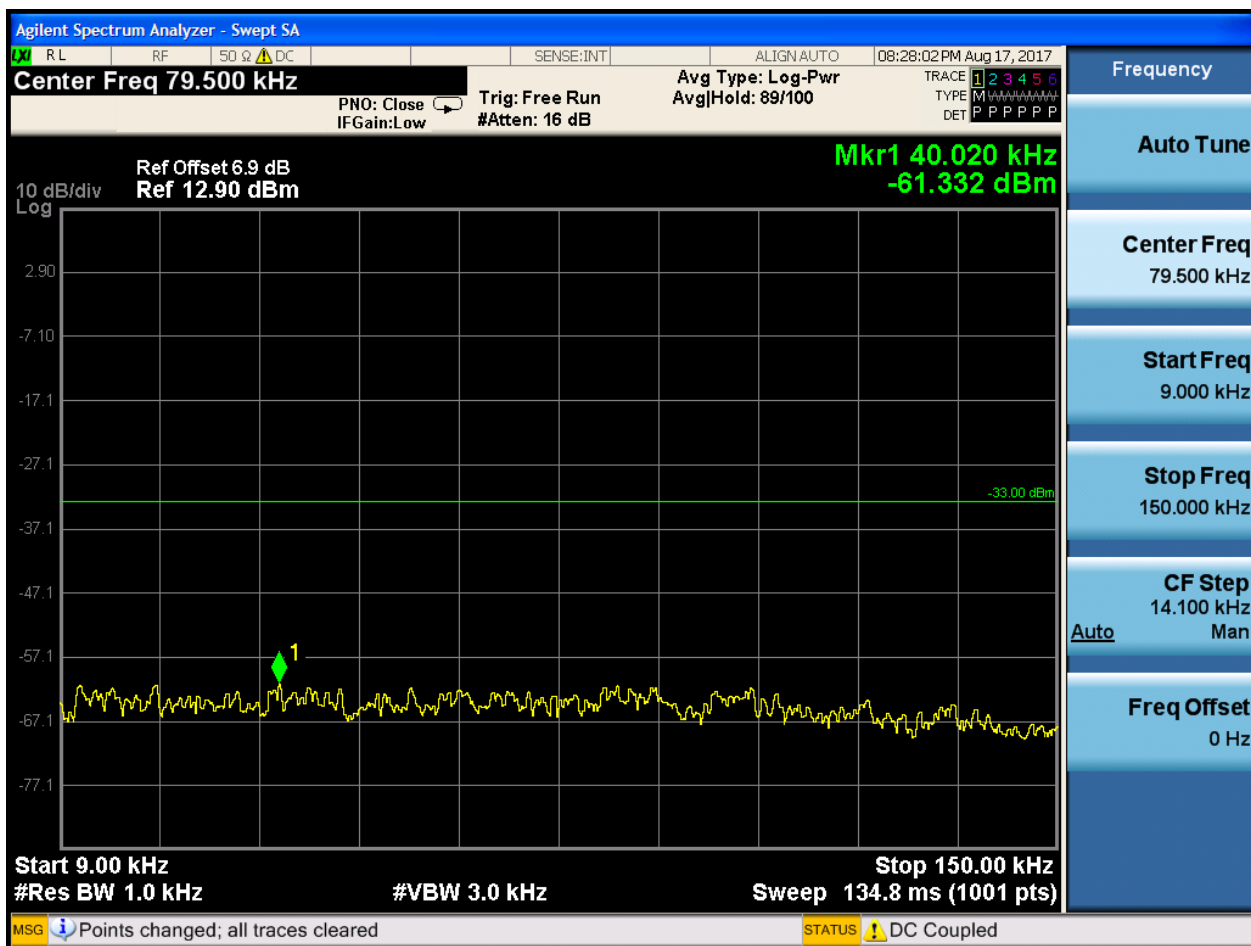


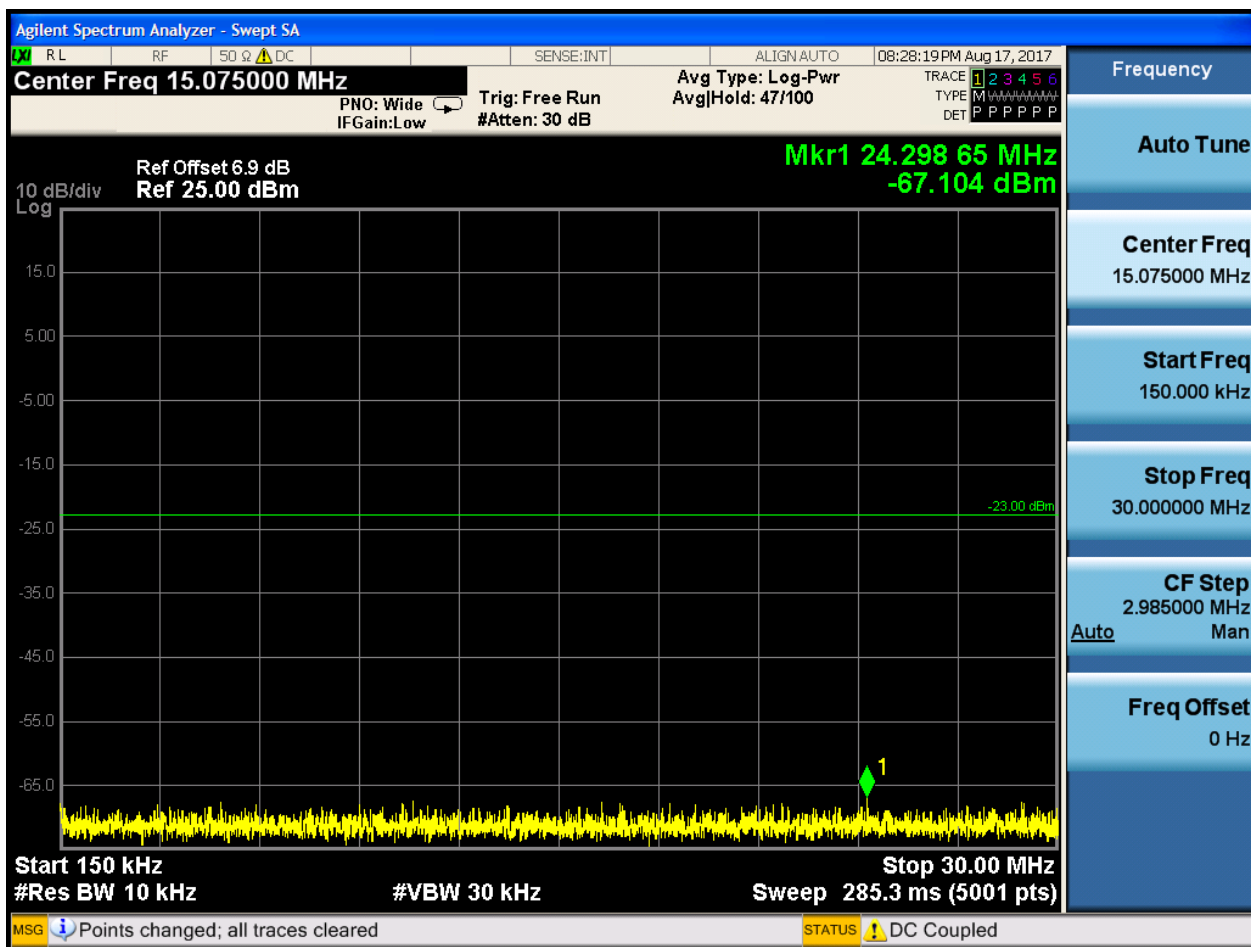


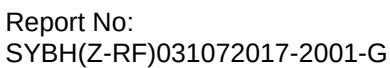


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

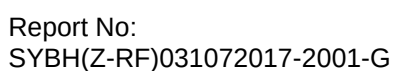


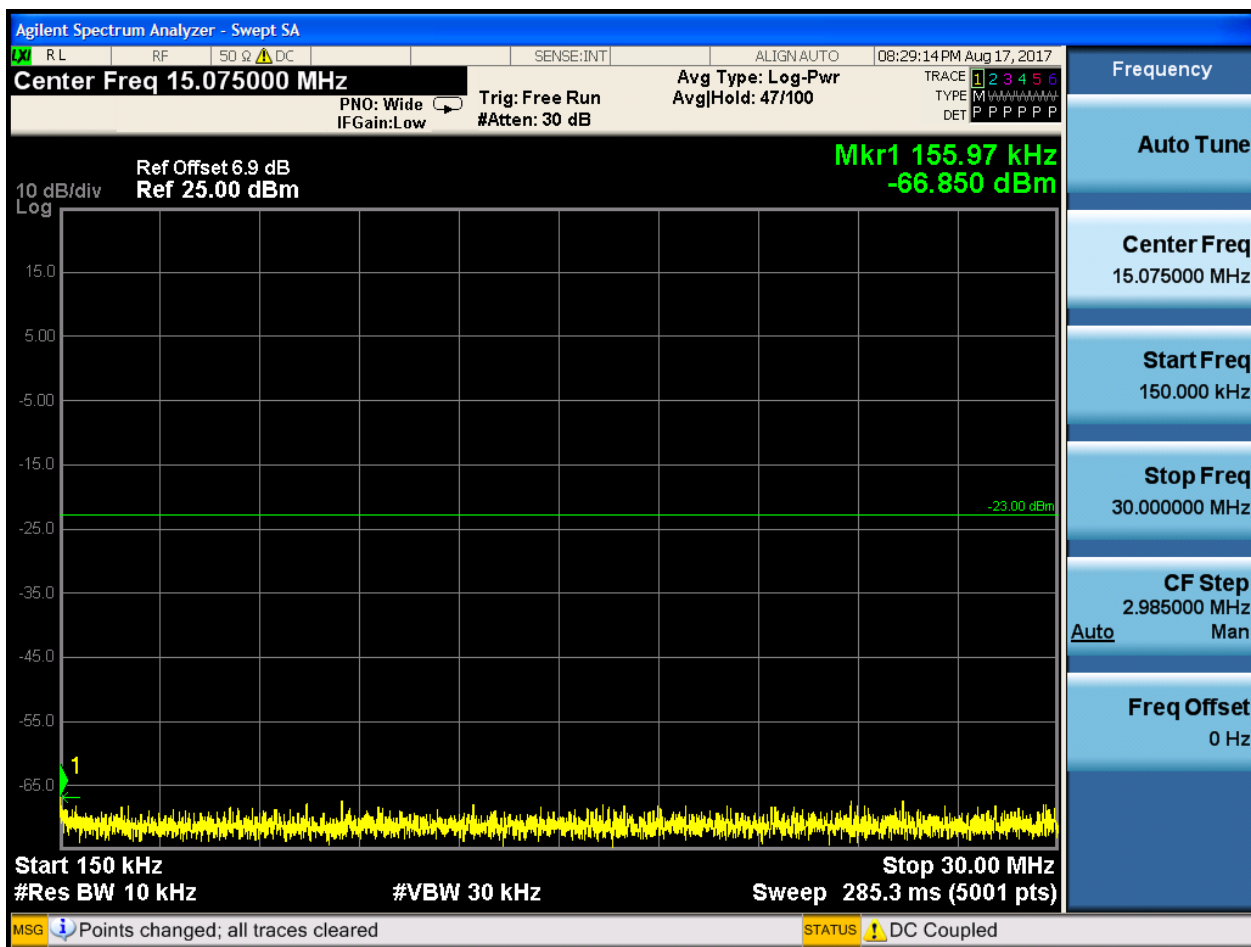


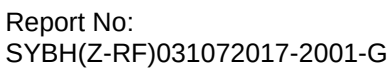




6.1.1.2.1.3.1 Test RB = RB1#0

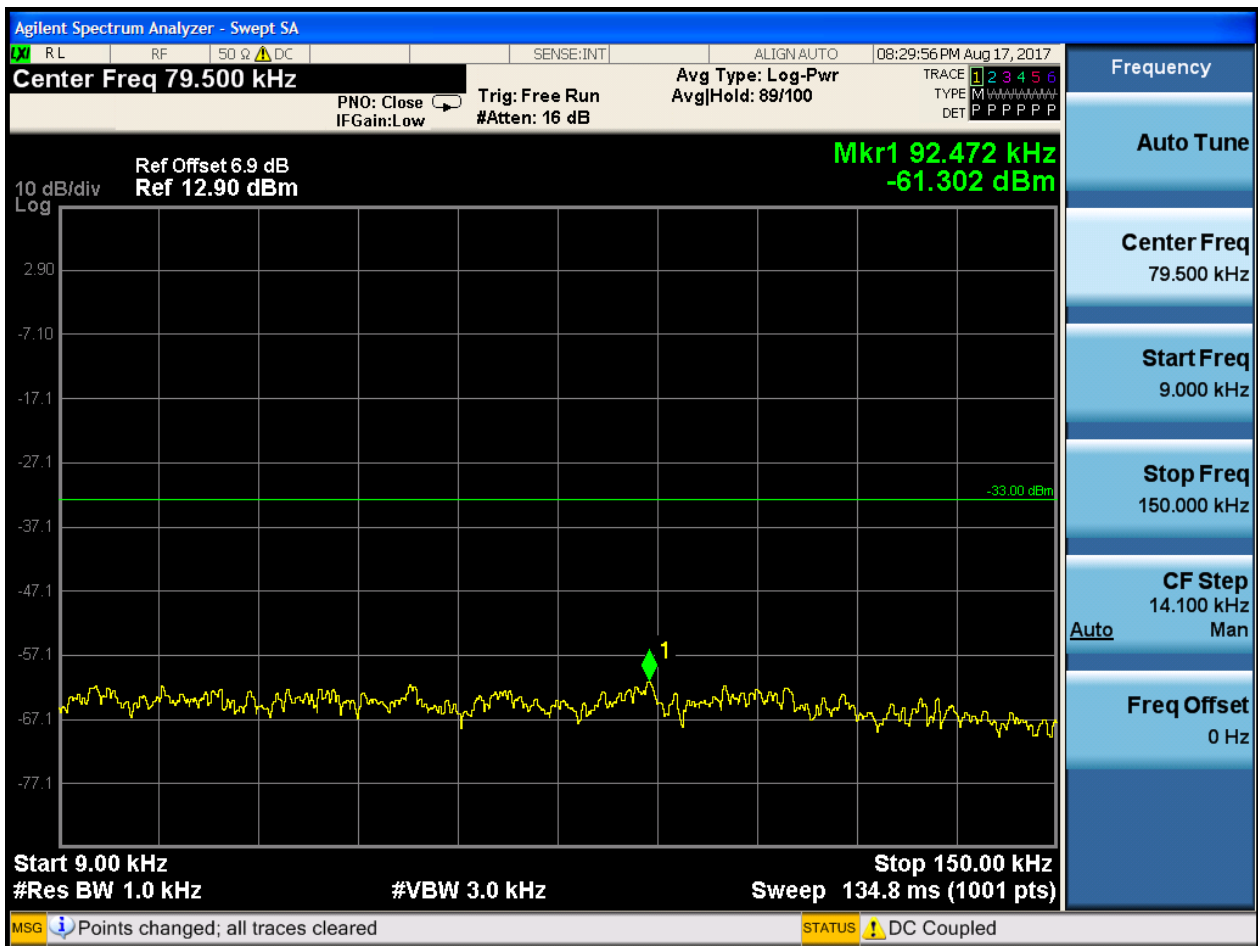


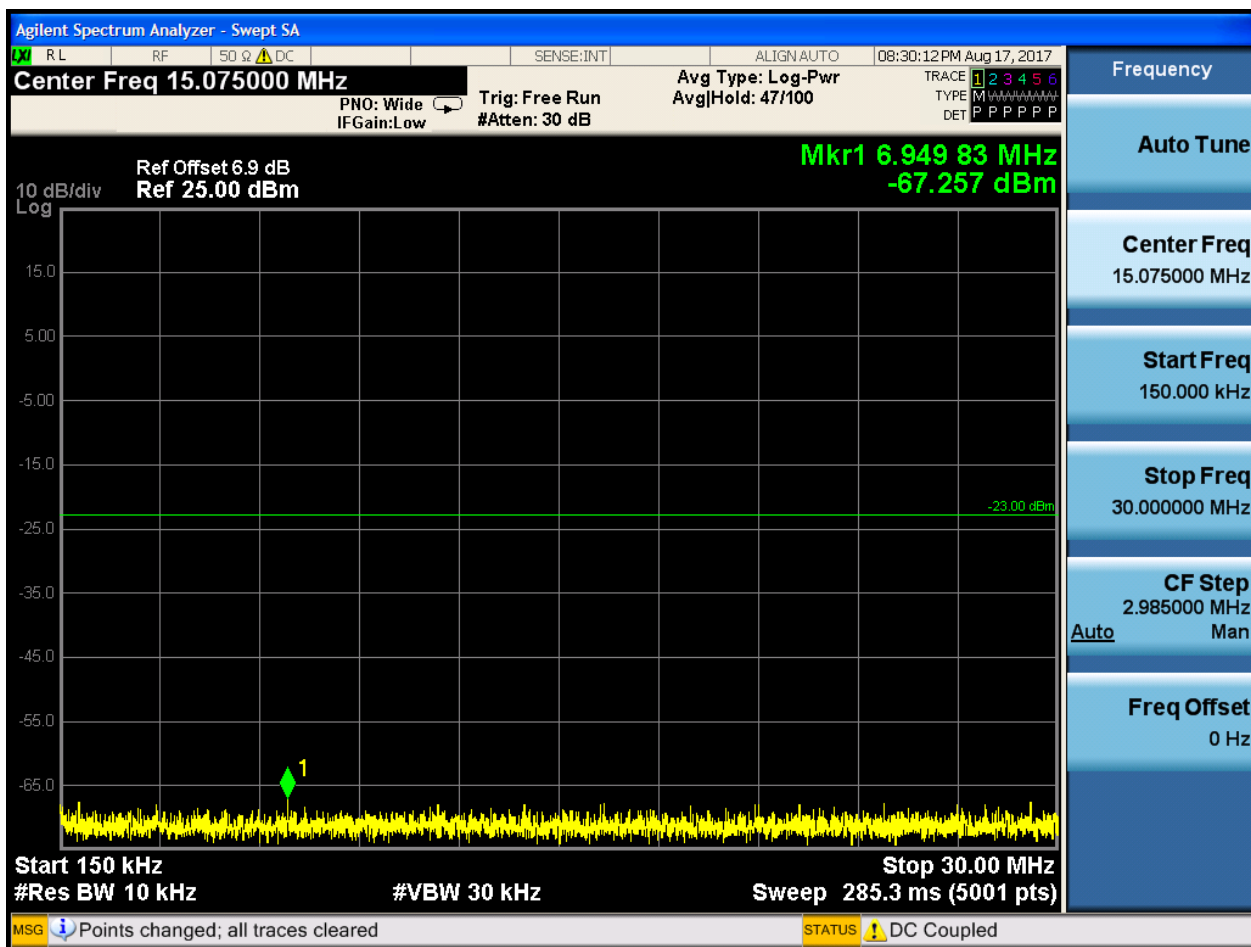


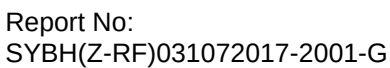




6.1.1.2.2.1.1 Test RB = RB1#0



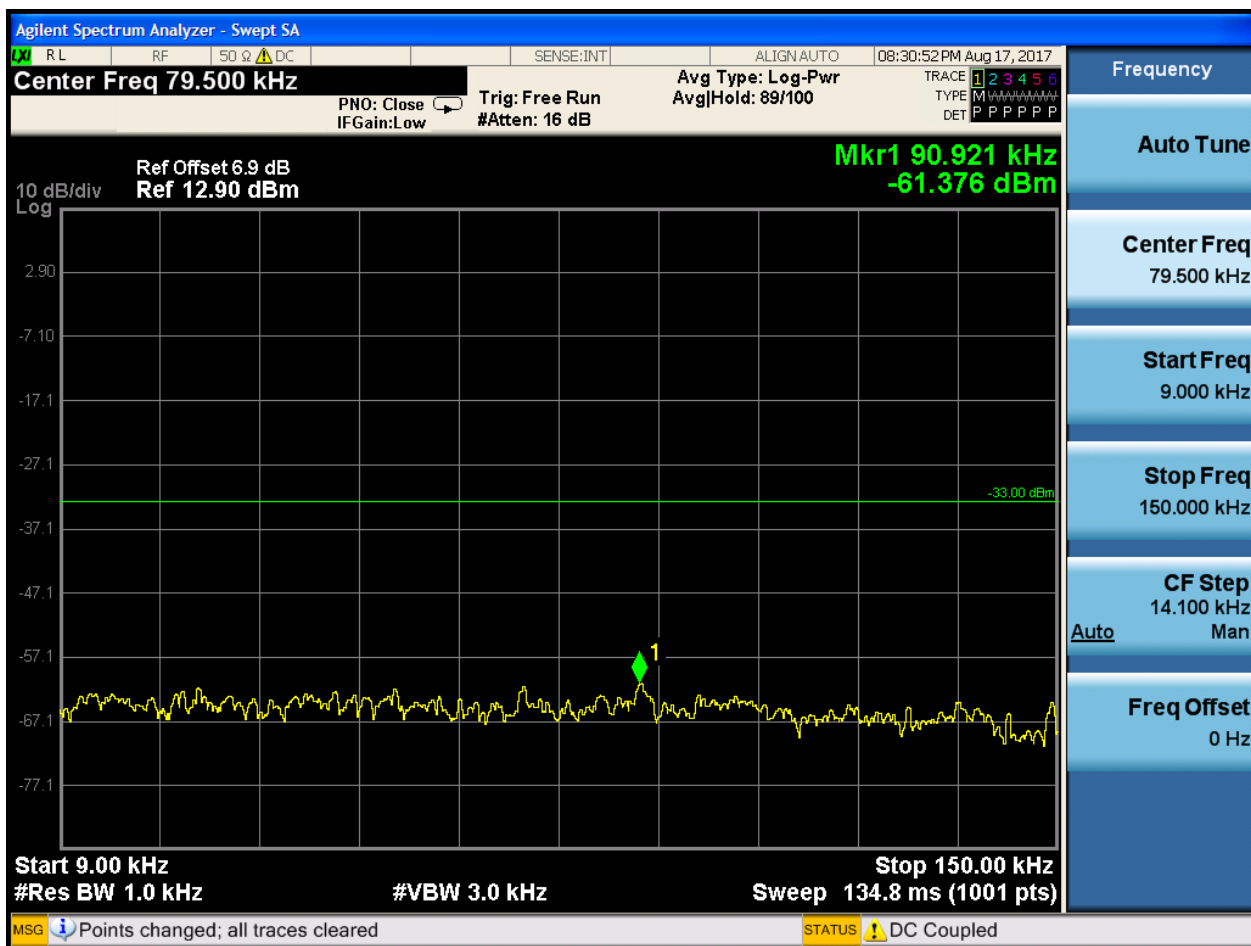


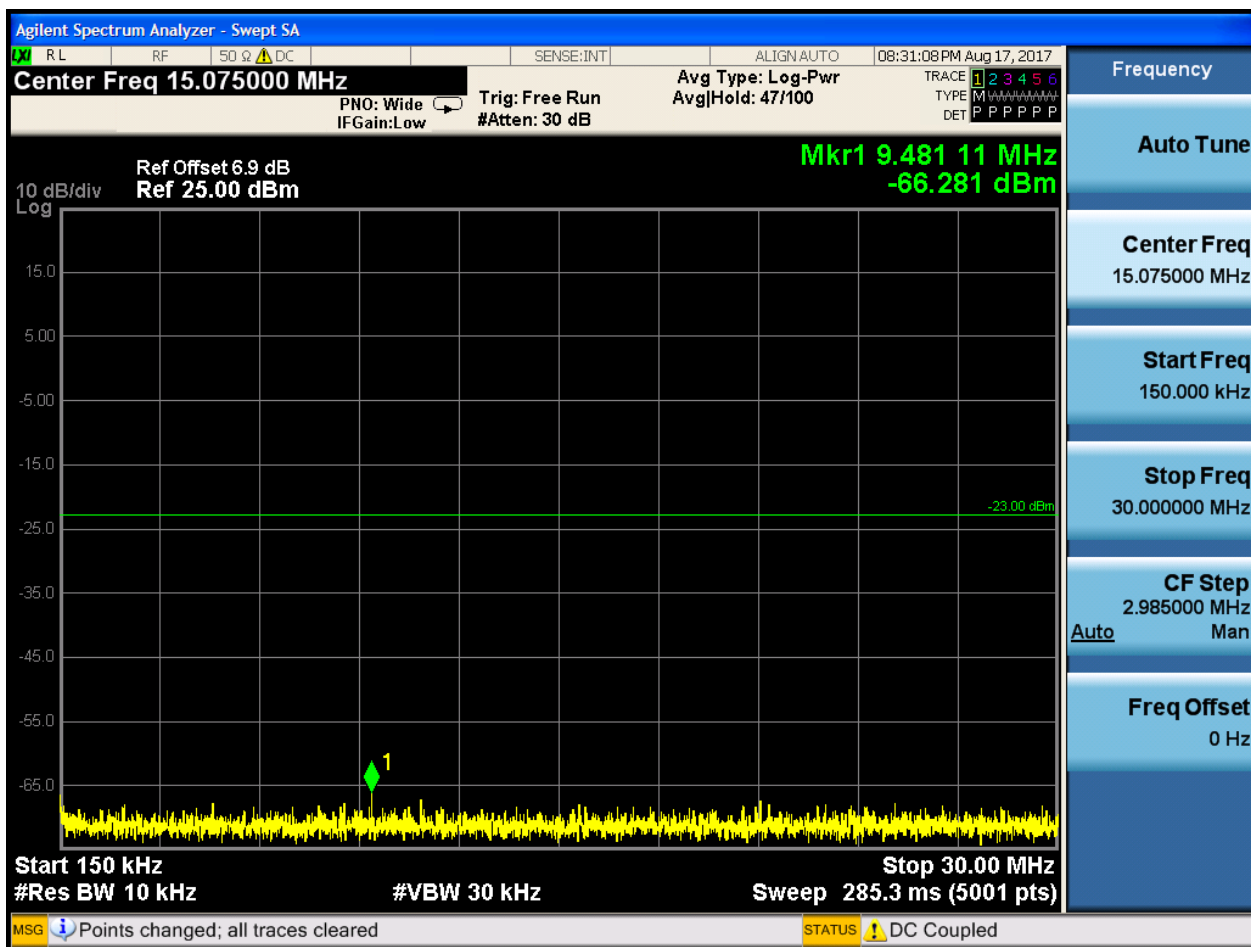


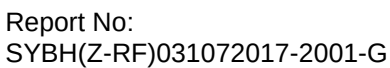


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

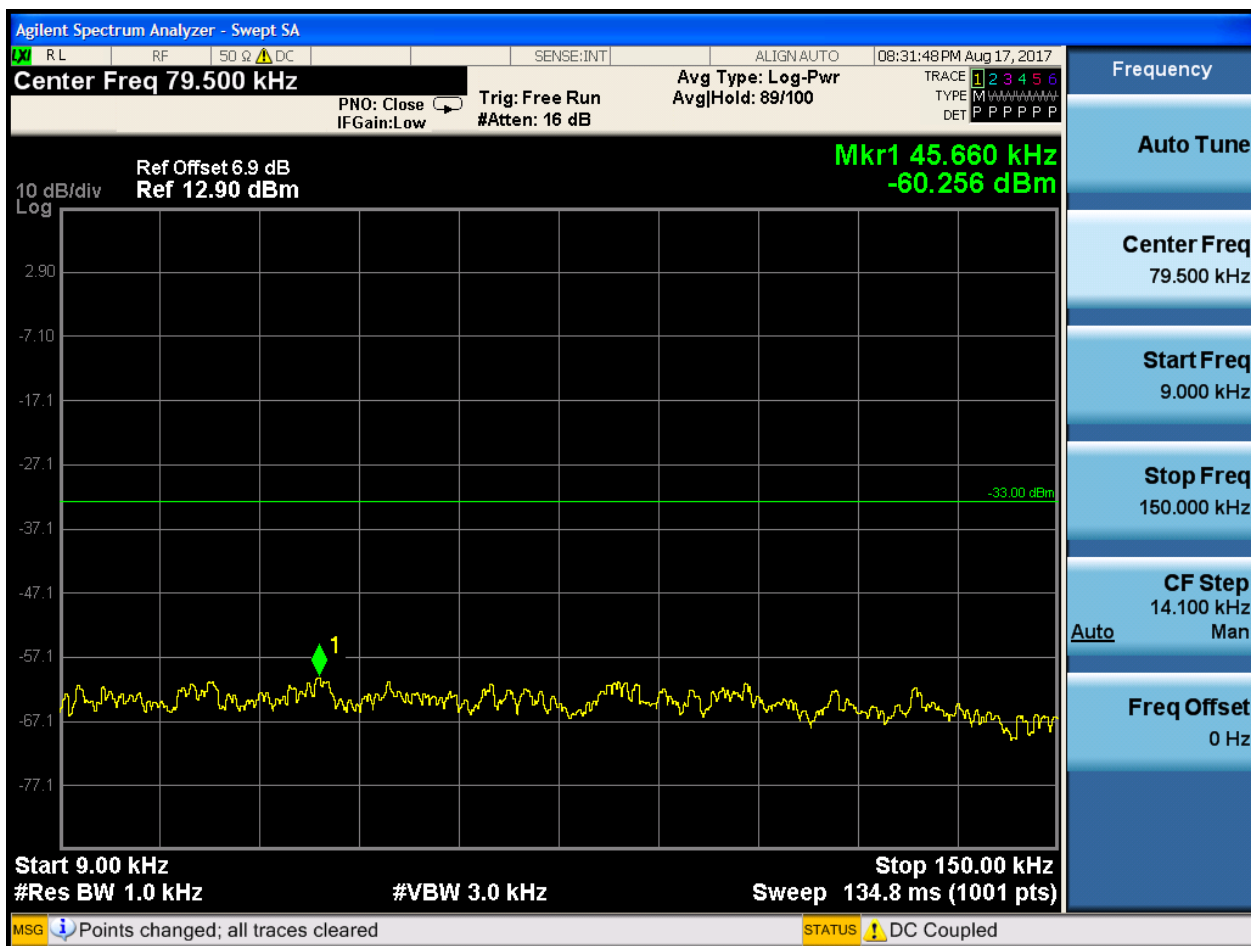


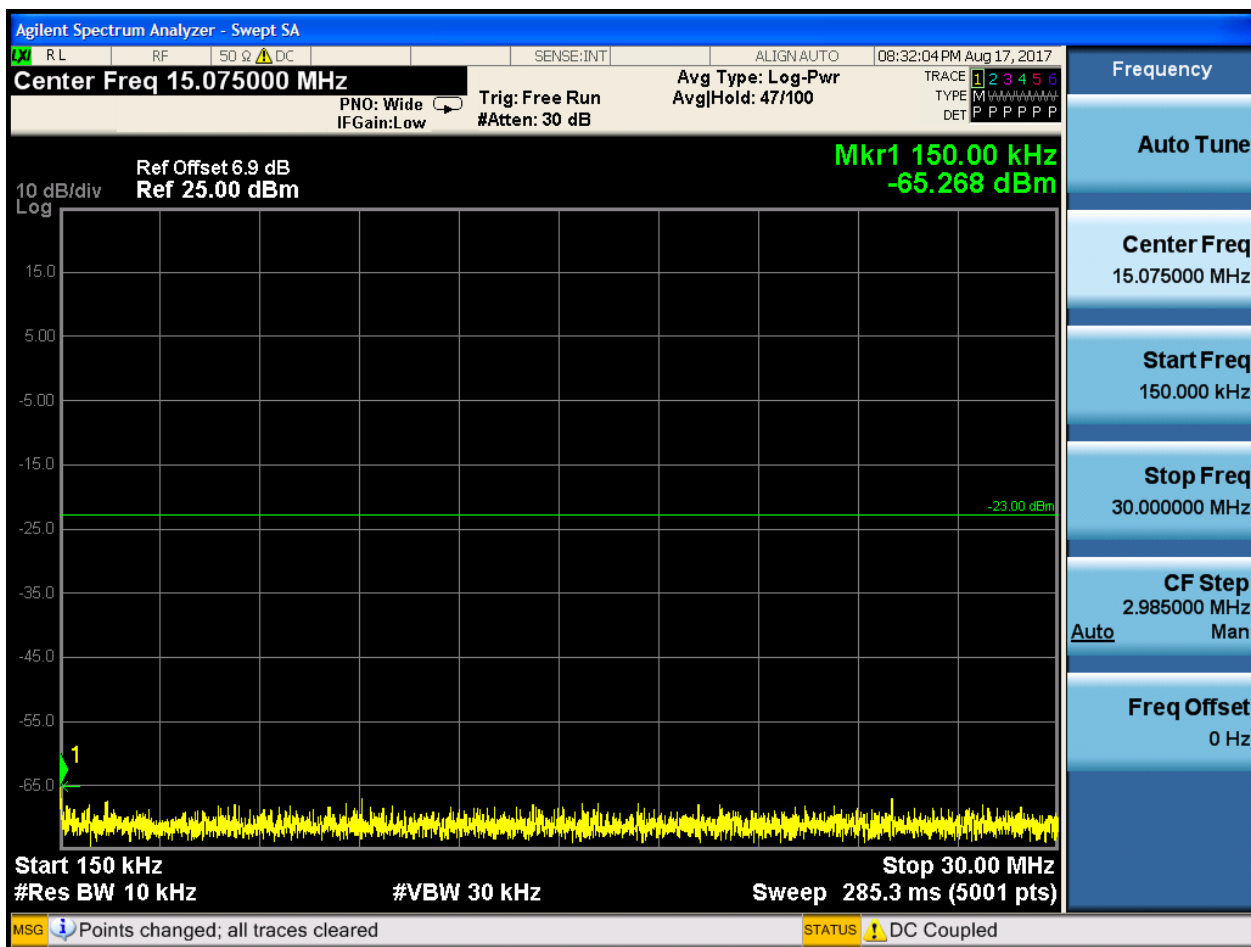


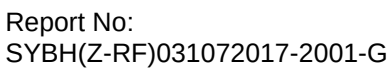


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0

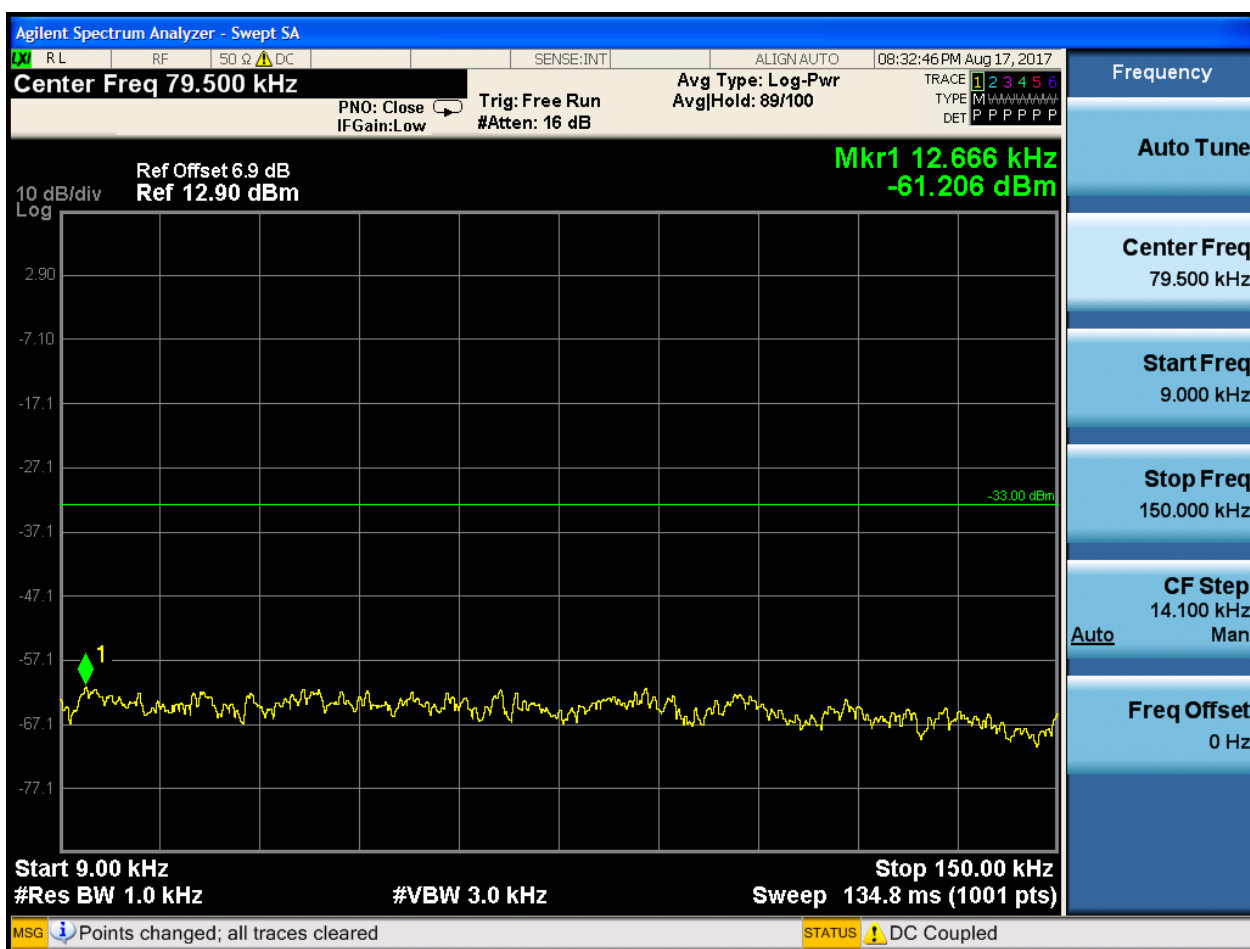


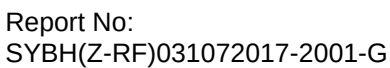


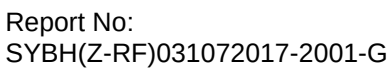




6.1.1.2.3.1.1 Test RB = RB1#0

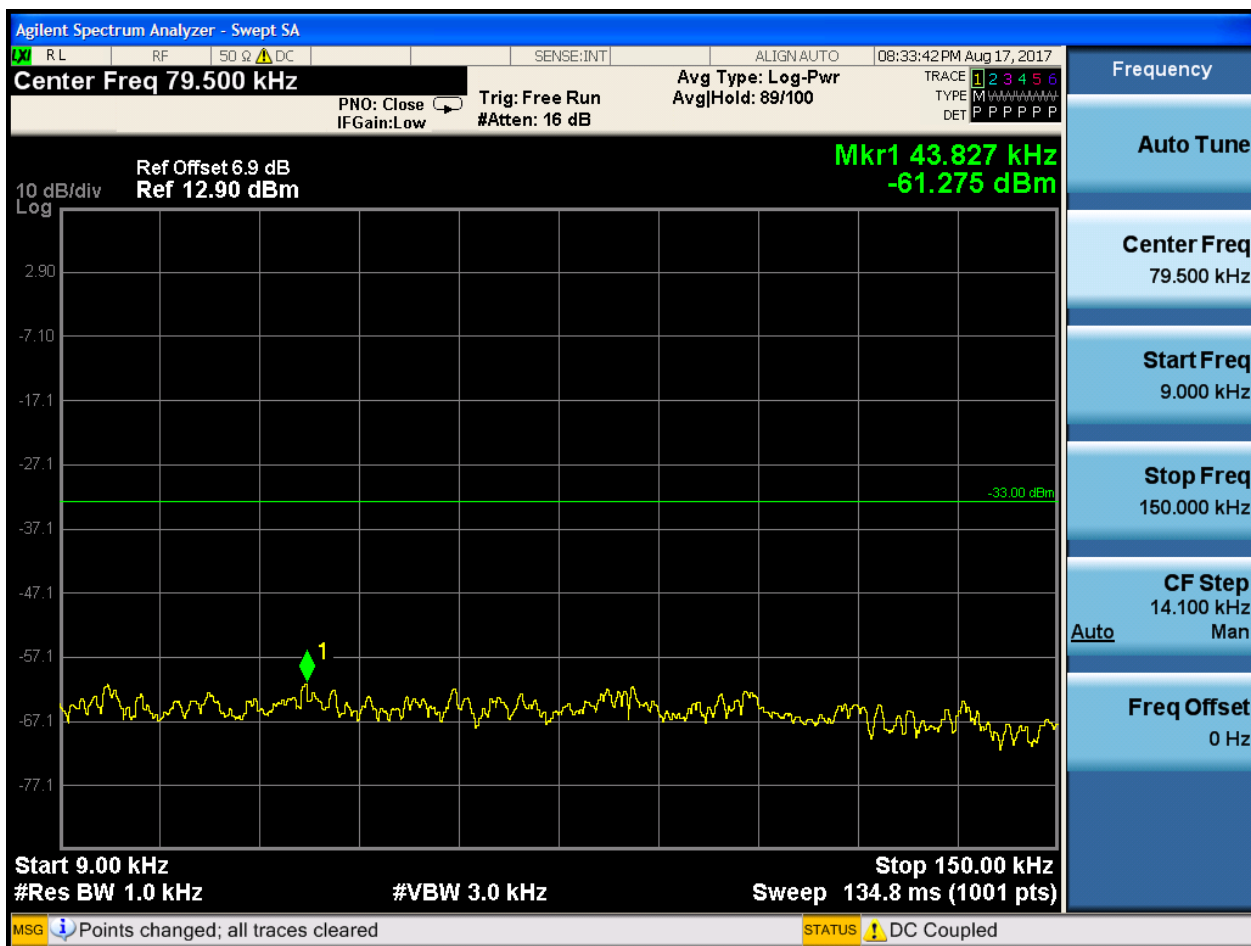




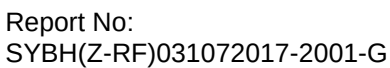


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

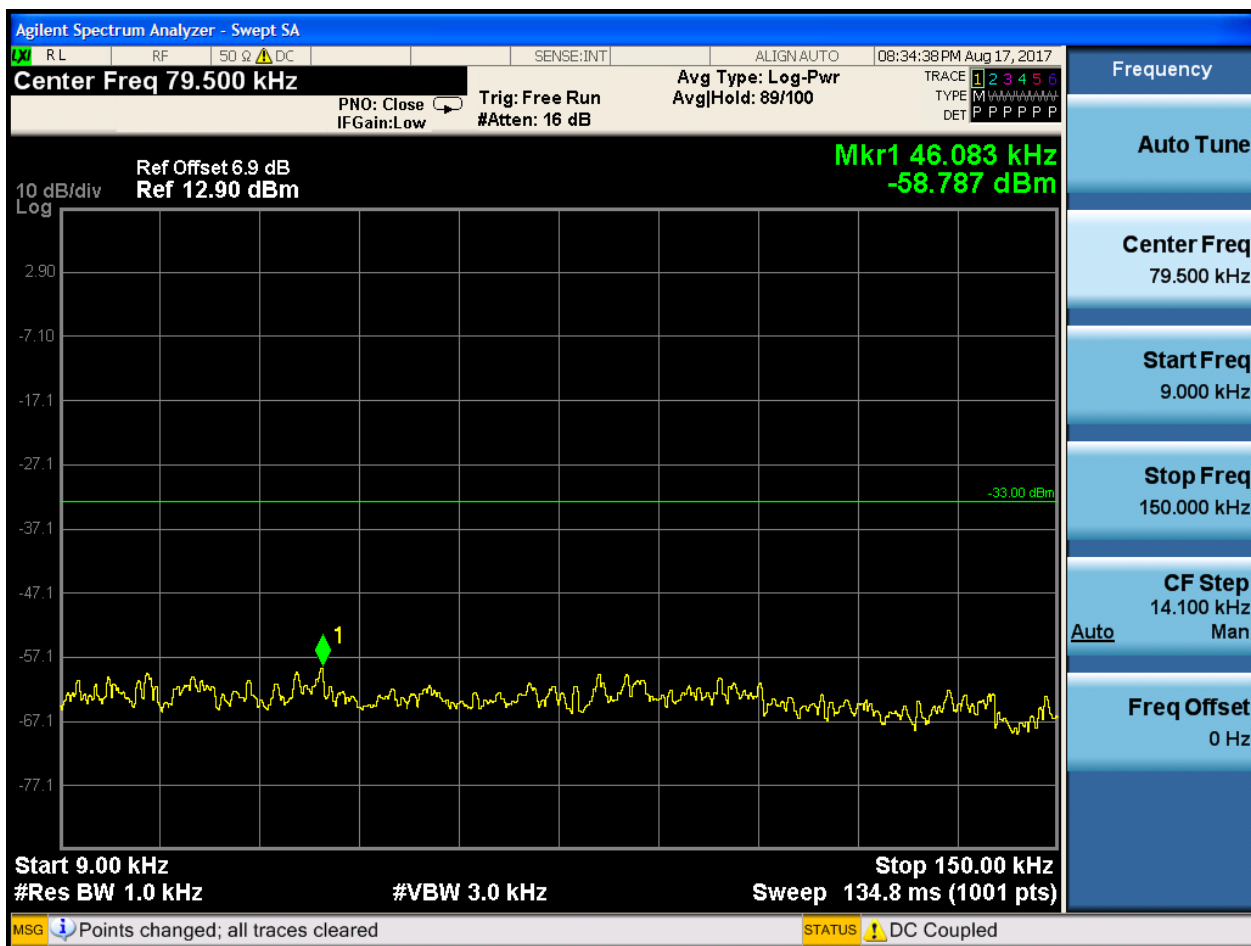


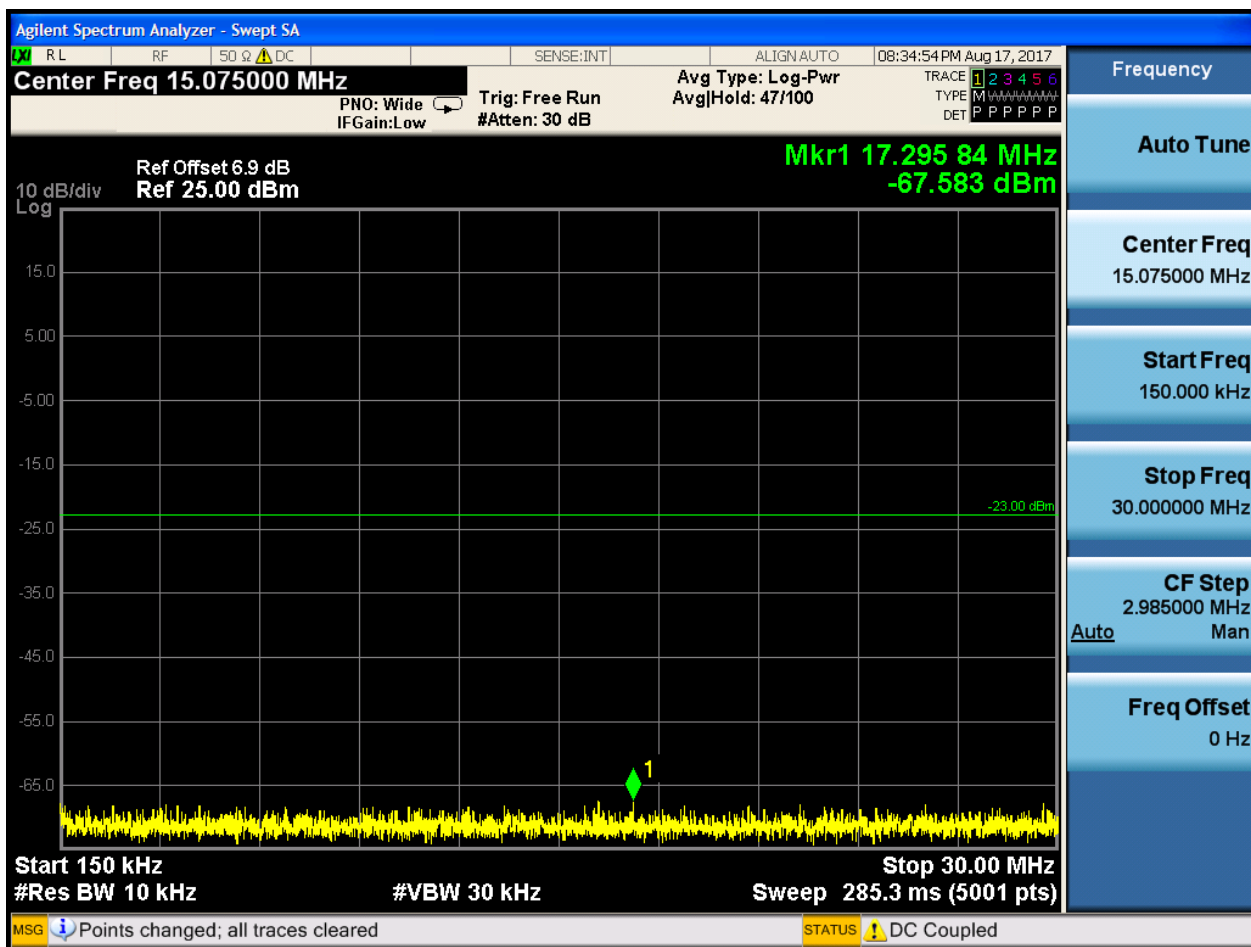


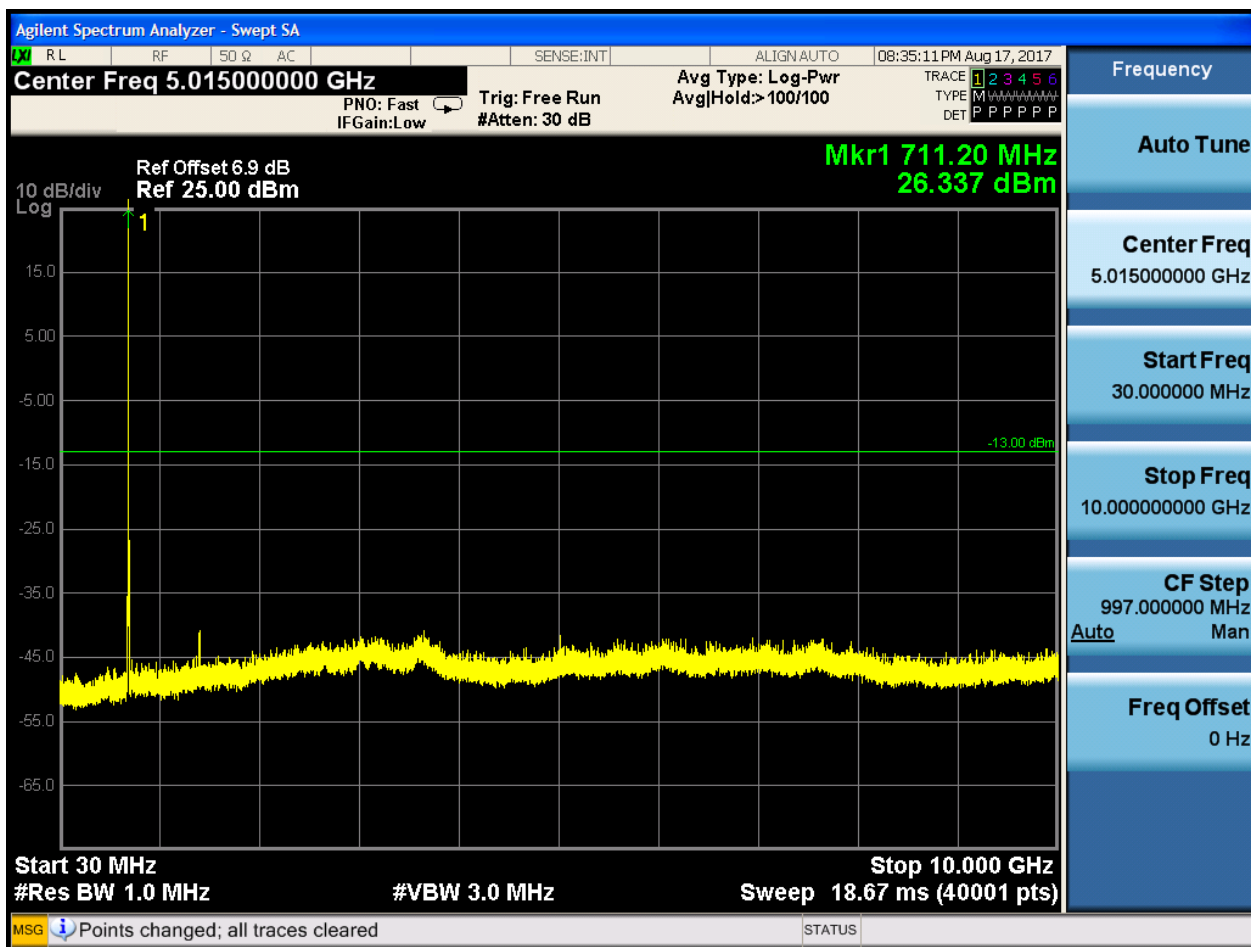


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



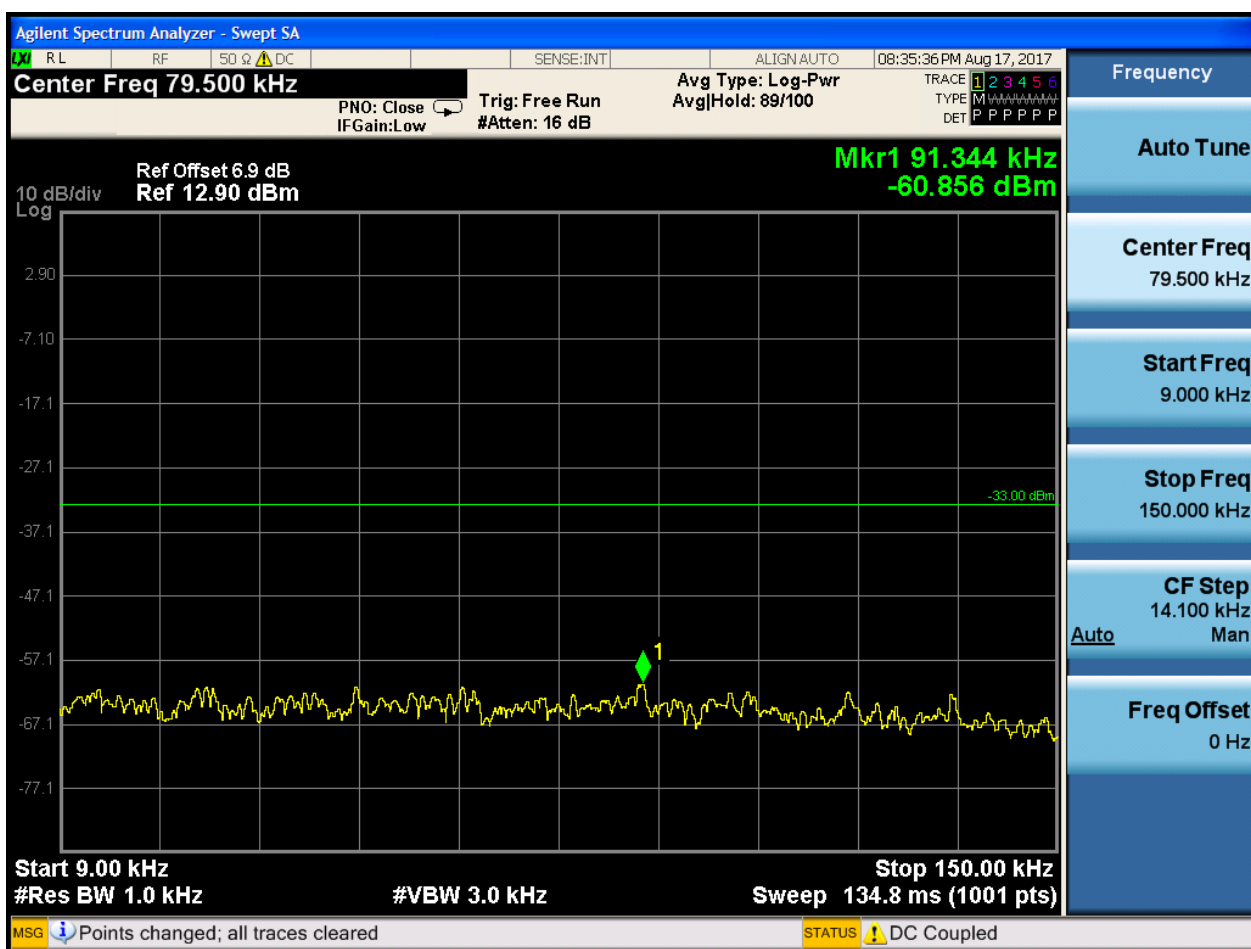


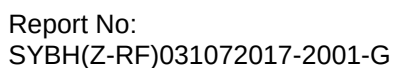


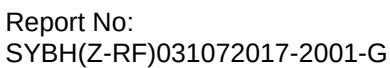
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



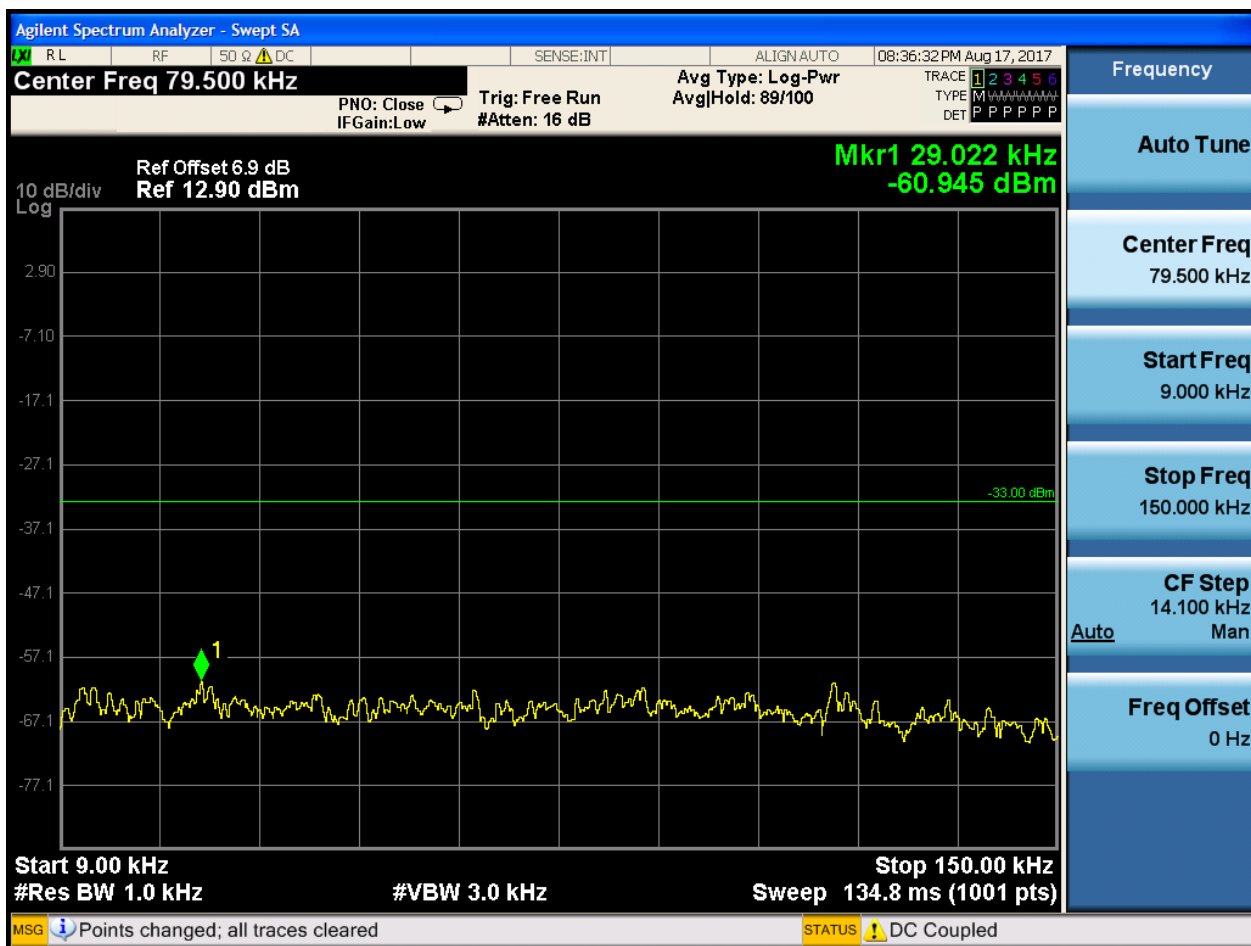


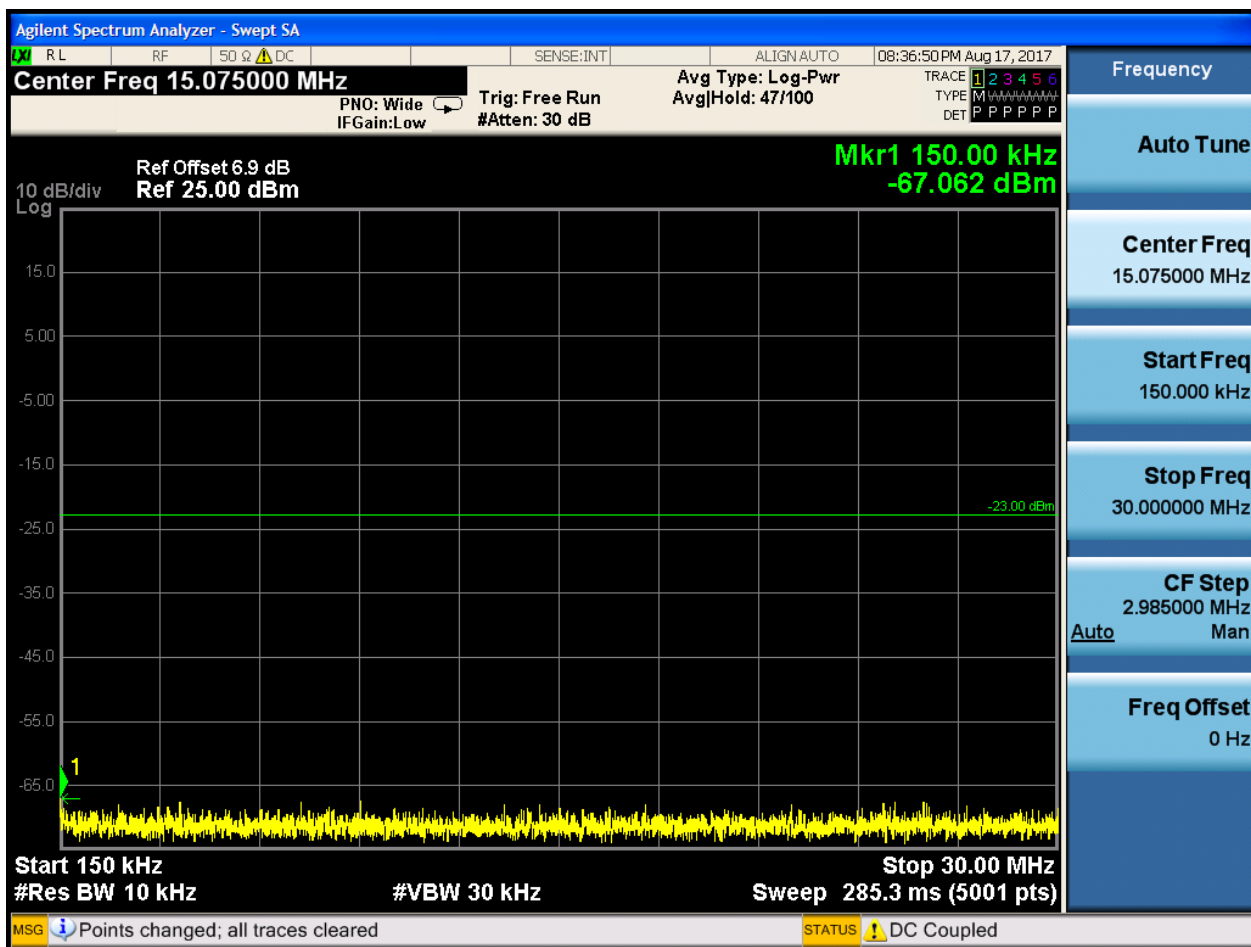


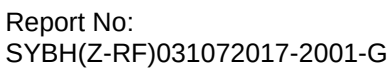


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

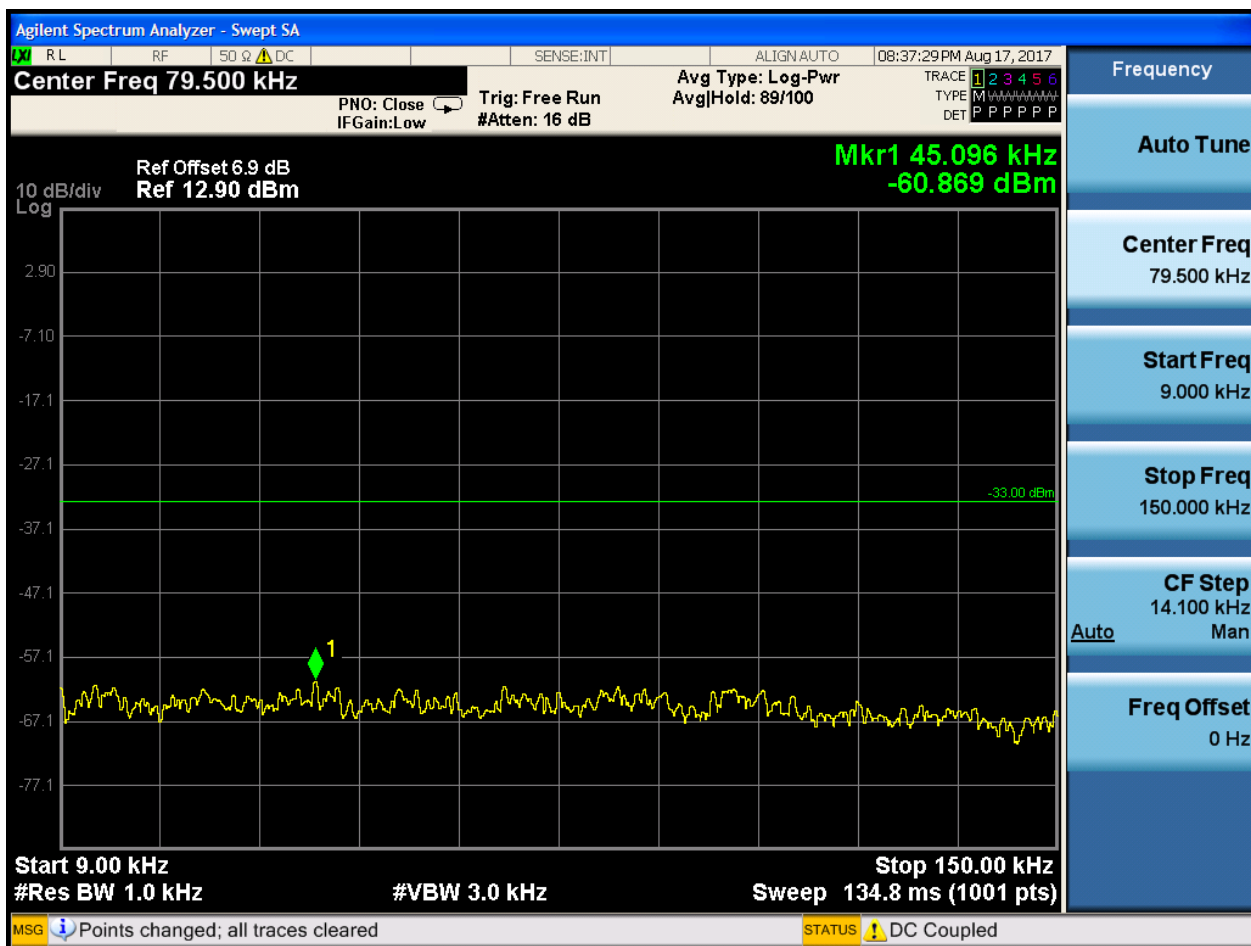


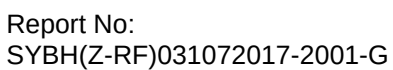


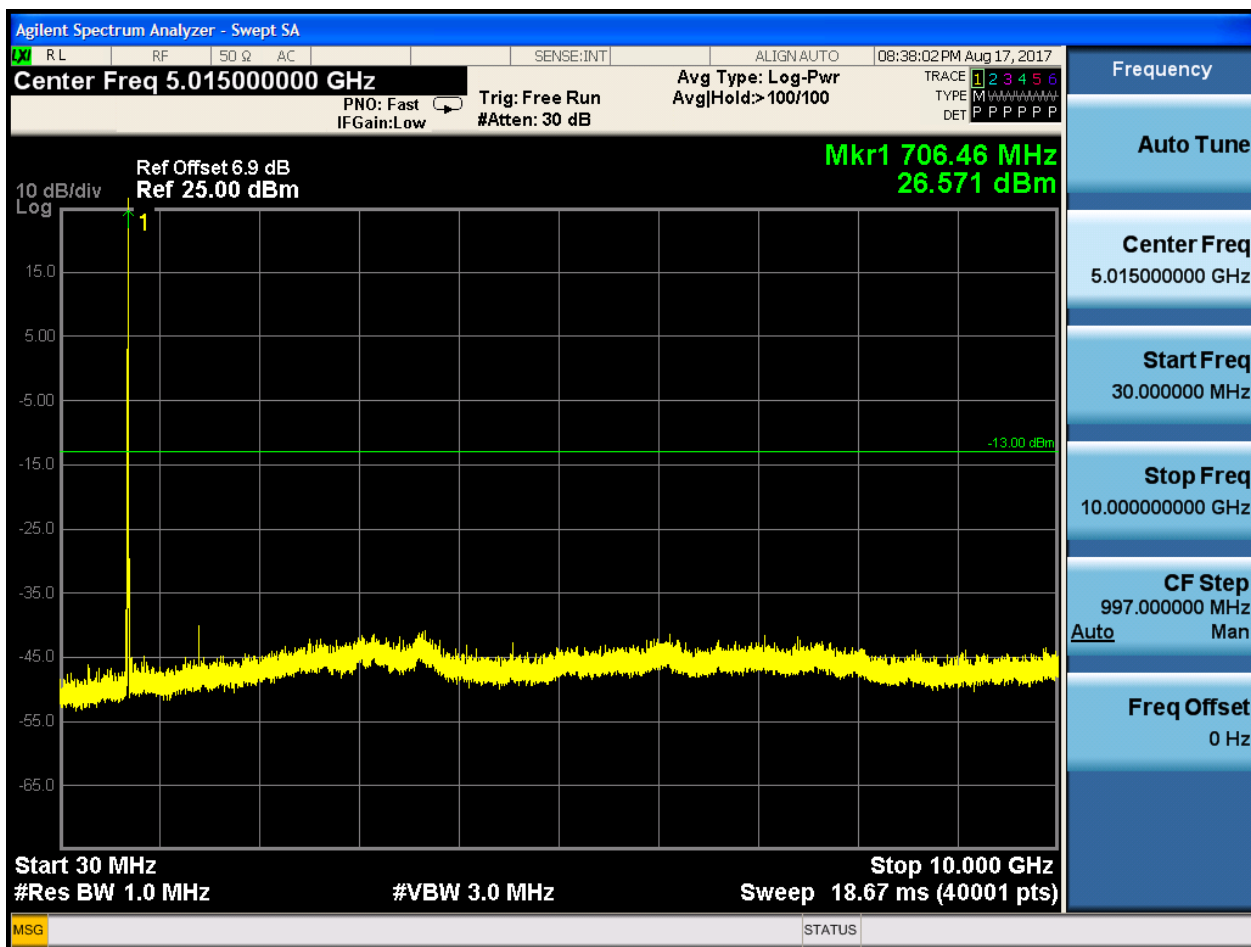


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

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

9kHz~150kHz, 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

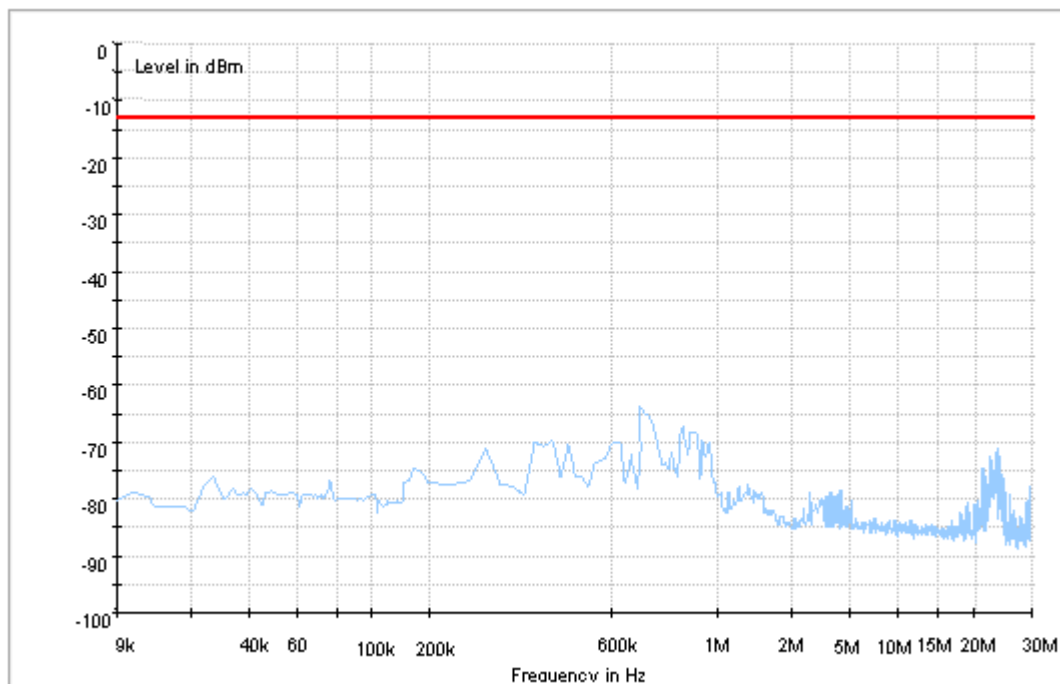
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

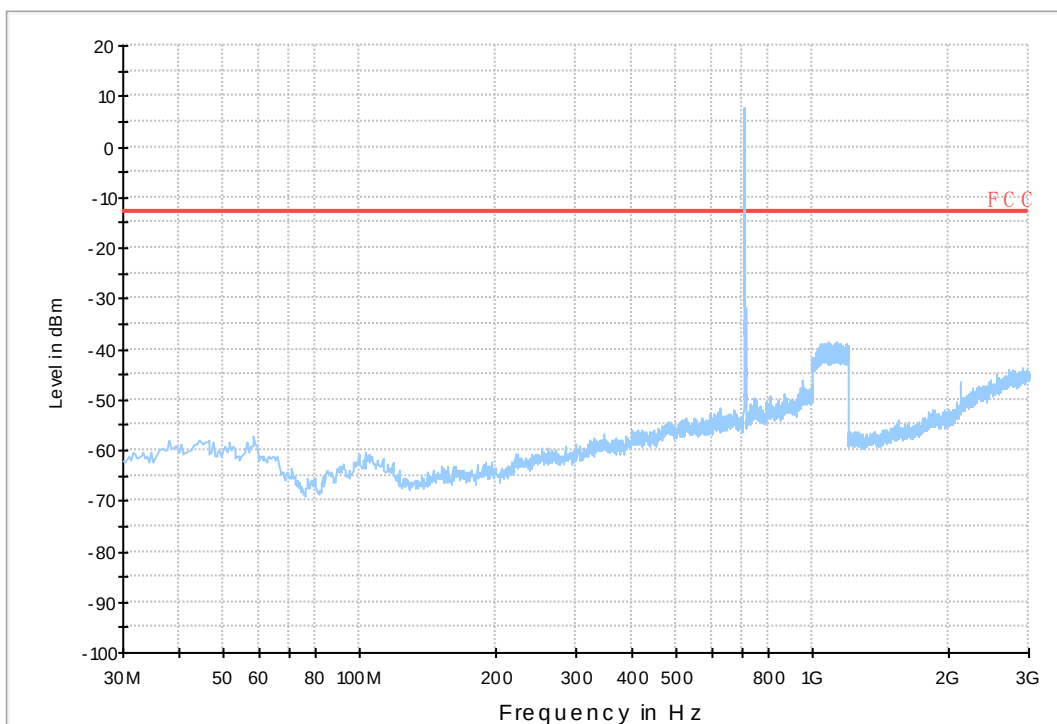
7.1 For LTE

7.1.1 Test Band = BAND12_ANT1

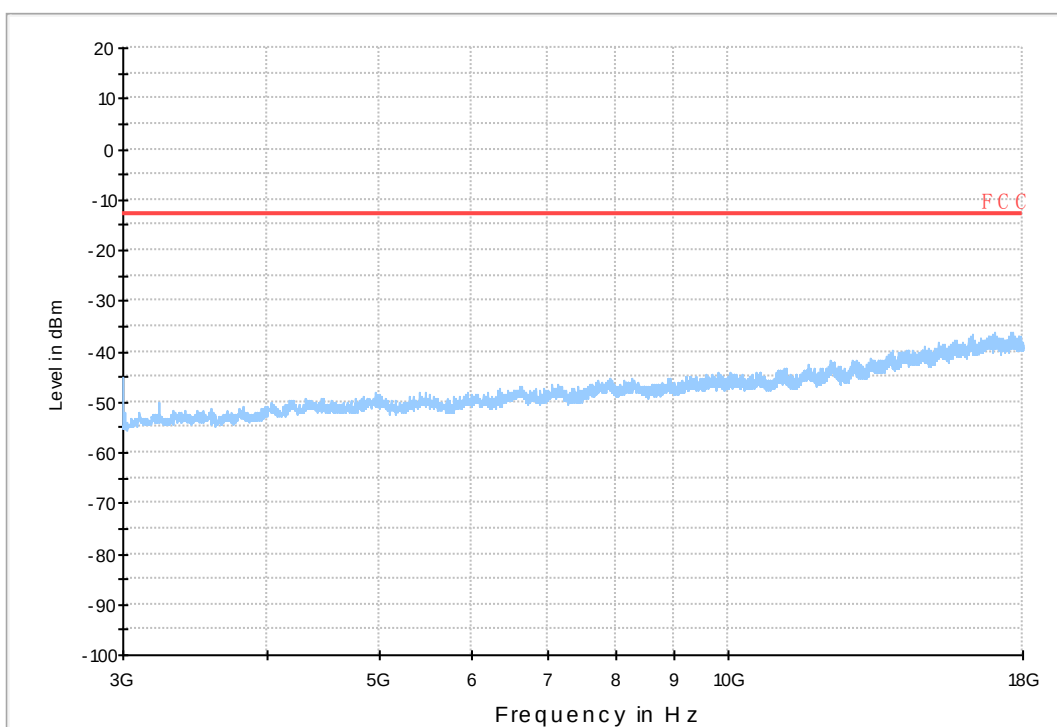
7.1.1.1 Test Bandwidth = 1.4



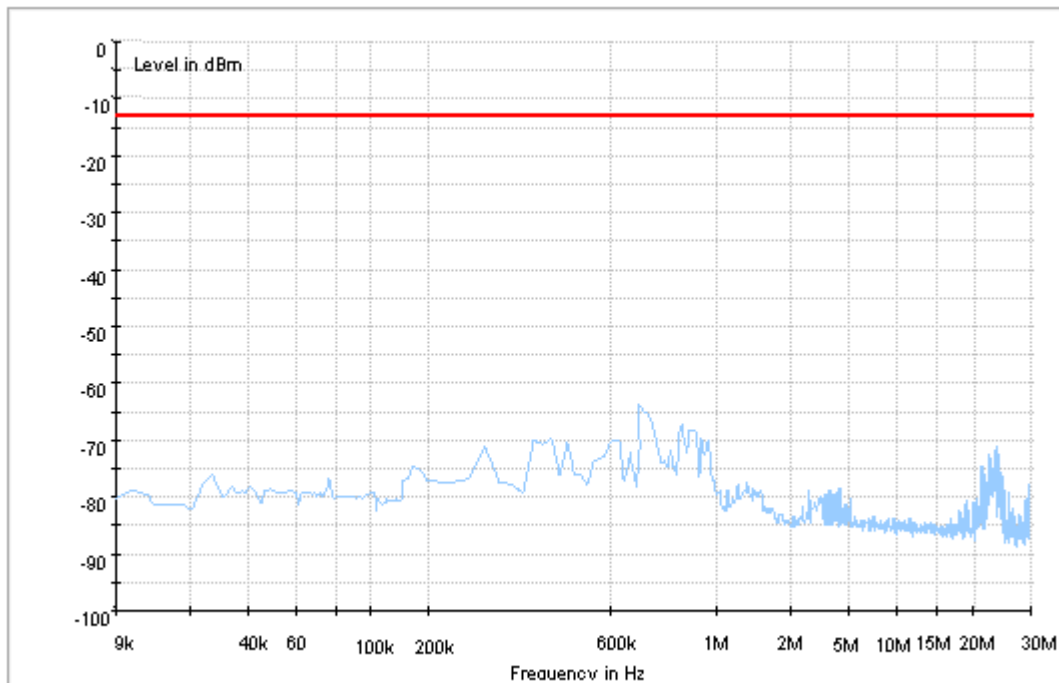
Copy of RSE-TX-DIRECTOR BELOW 1G_L



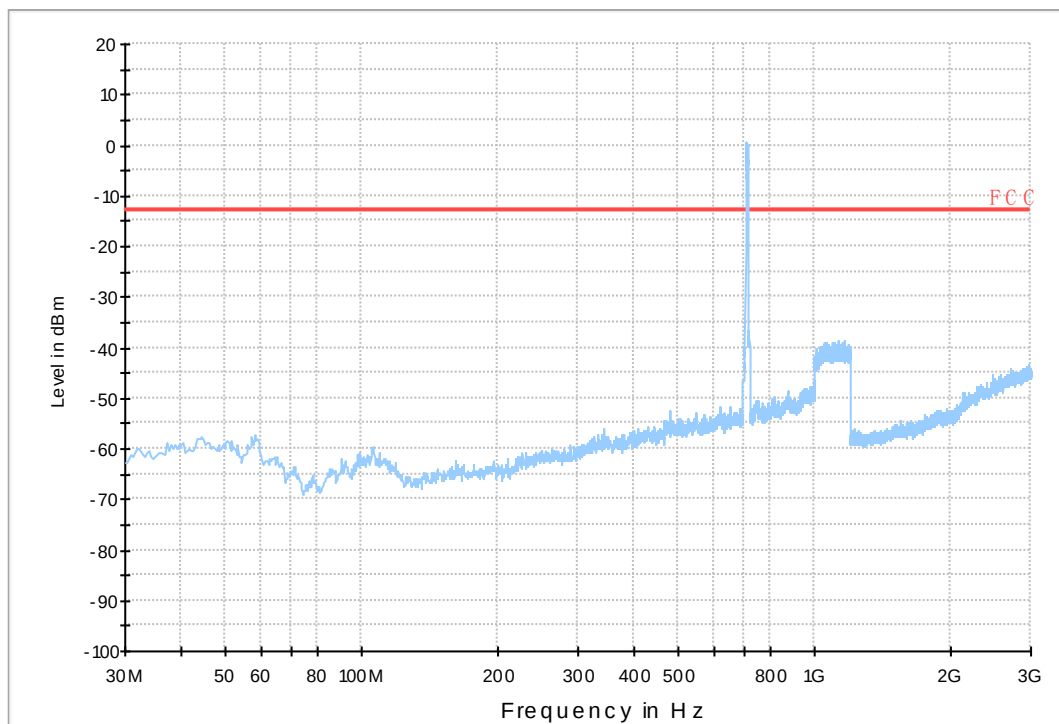
Copy of RSE-TX-DIRECTOR BELOW 1G_H



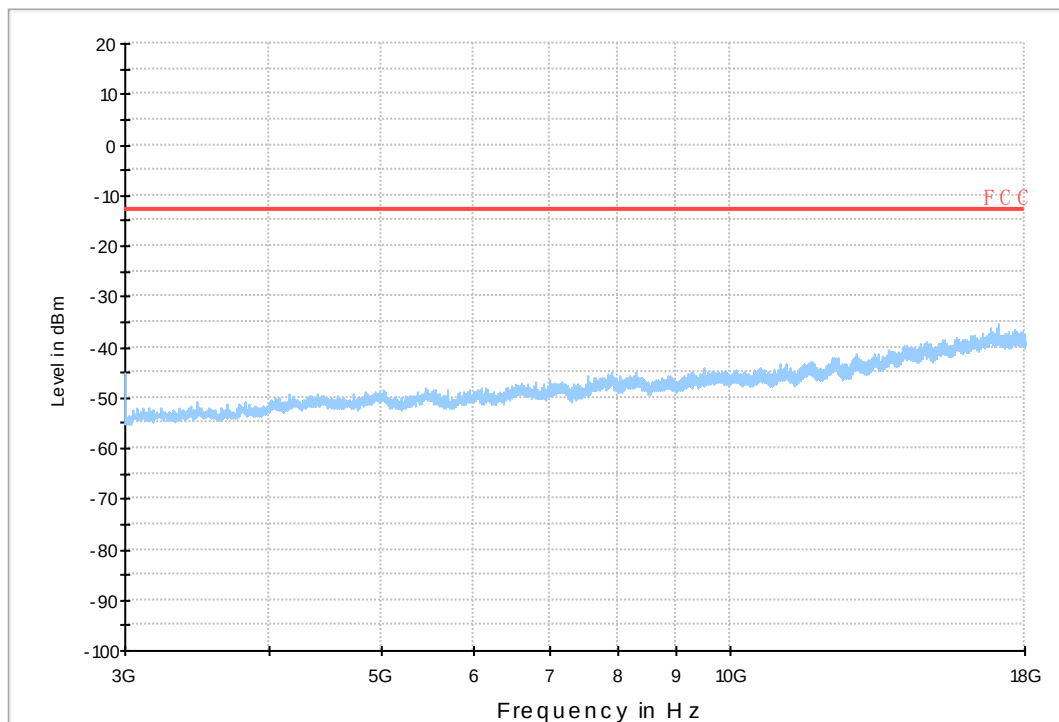
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

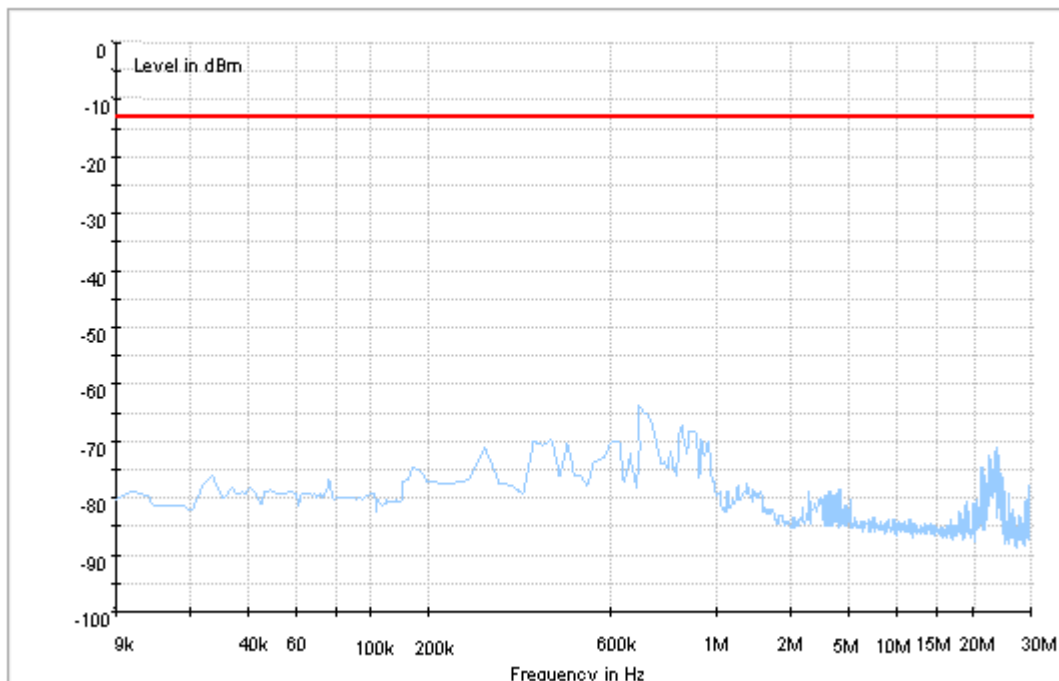


Copy of RSE-TX-DIRECTOR BELOW 1G_H

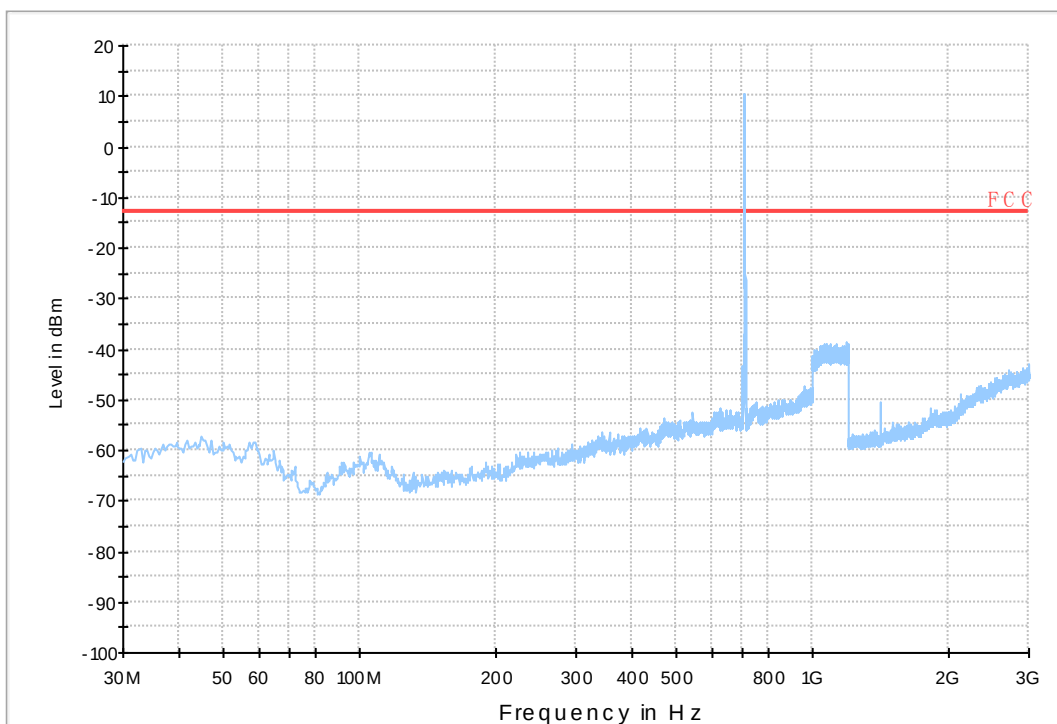


7.1.2 Test Band = BAND12_ANT2

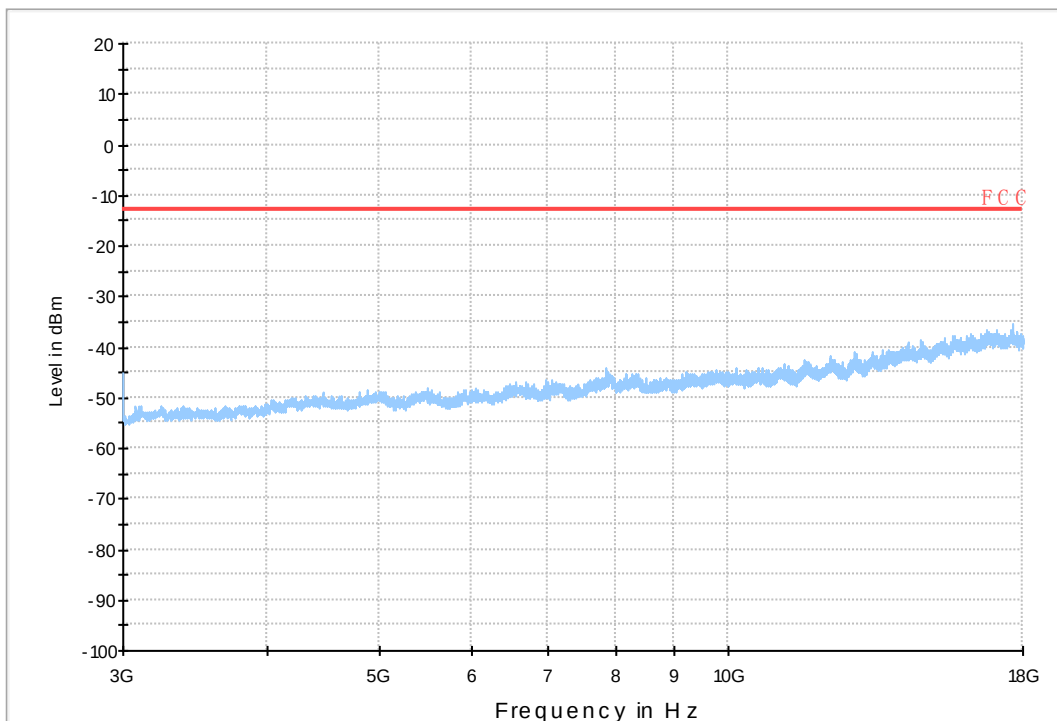
7.1.2.1 Test Bandwidth = 1.4



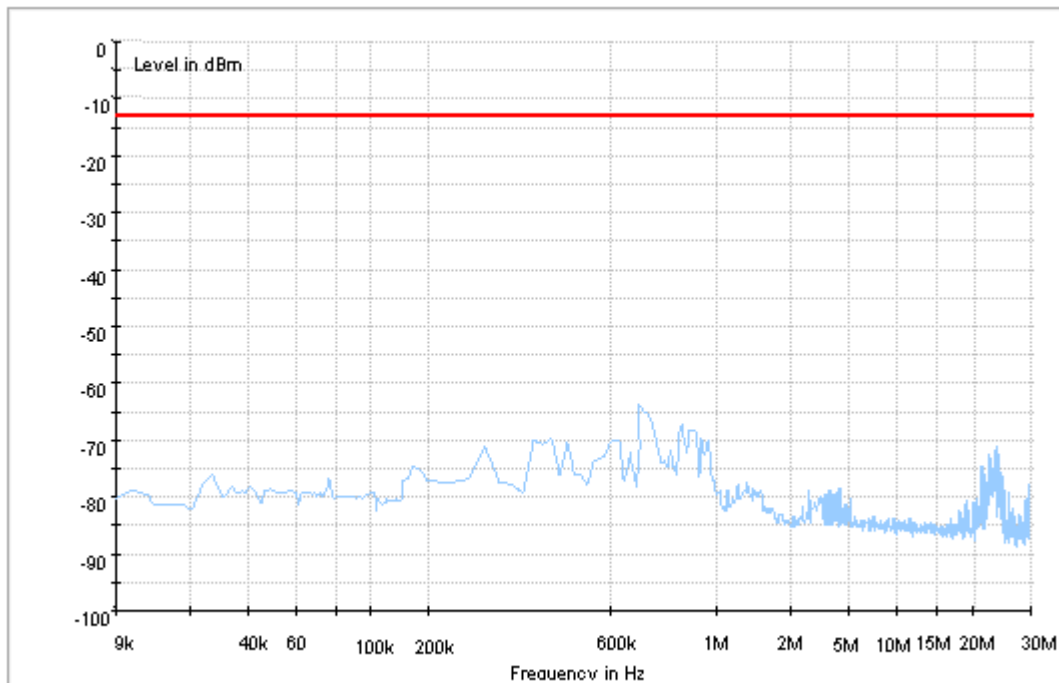
Copy of RSE-TX-DIRECTOR BELOW 1G_L



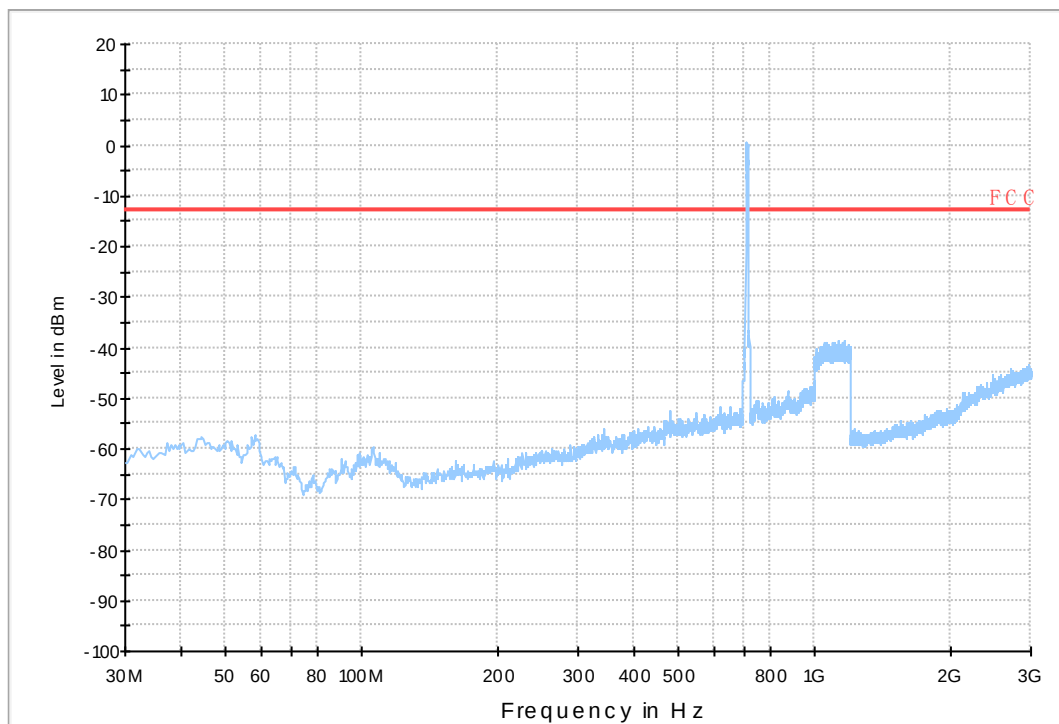
Copy of RSE-TX-DIRECTOR BELOW 1G_H



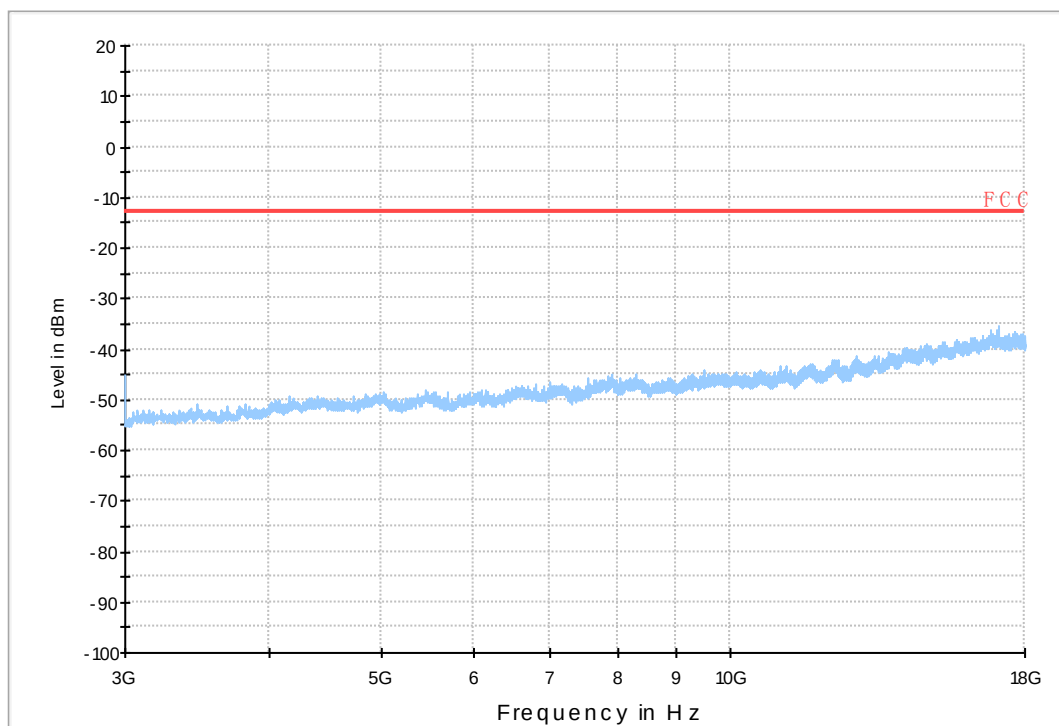
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND12	LTE/TM1	1.4	LCH	TN	VL	-0.53	-0.00076	PASS
					VN	4.46	0.00637	PASS
					VH	-5.44	-0.00777	PASS
			MCH	TN	VL	-7.14	-0.01009	PASS
					VN	-0.93	-0.00131	PASS
					VH	-3.63	-0.00513	PASS
			HCH	TN	VL	-5.25	-0.00734	PASS
					VN	7.38	0.01032	PASS
					VH	1.34	0.00187	PASS
		3	LCH	TN	VL	-0.39	-0.00056	PASS
					VN	-4.84	-0.00691	PASS
					VH	-4.58	-0.00654	PASS
			MCH	TN	VL	-1.75	-0.00247	PASS
					VN	-0.49	-0.00069	PASS
					VH	1.27	0.0018	PASS
			HCH	TN	VL	-1.37	-0.00192	PASS
					VN	-0.14	-0.0002	PASS
					VH	5.25	0.00735	PASS
		5	LCH	TN	VL	3.33	0.00475	PASS
					VN	0.84	0.0012	PASS
					VH	0.26	0.00037	PASS
			MCH	TN	VL	-0.30	-0.00042	PASS
					VN	0.56	0.00079	PASS
					VH	-0.84	-0.00119	PASS
			HCH	TN	VL	0.20	0.00028	PASS
					VN	-1.20	-0.00168	PASS
					VH	-0.17	-0.00024	PASS
		10	LCH	TN	VL	0.59	0.00084	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-0.09	-0.00013	PASS
					VH	-0.51	-0.00072	PASS
					VL	2.25	0.00318	PASS
			MCH	TN	VN	-0.46	-0.00065	PASS
					VH	0.87	0.00123	PASS
					VL	-1.73	-0.00243	PASS
			HCH	TN	VN	-0.06	-0.00008	PASS
					VH	-1.40	-0.00197	PASS
					VL	4.48	0.0064	PASS
	LTE/TM2	1.4	LCH	TN	VN	-5.28	-0.00755	PASS
					VH	-0.56	-0.0008	PASS
					VL	-1.42	-0.00201	PASS
			MCH	TN	VN	2.32	0.00328	PASS
					VH	-3.93	-0.00555	PASS
					VL	5.99	0.00837	PASS
			HCH	TN	VN	3.79	0.0053	PASS
					VH	0.07	0.0001	PASS
					VL	-0.90	-0.00128	PASS
		3	LCH	TN	VN	0.57	0.00081	PASS
					VH	2.30	0.00328	PASS
					VL	5.41	0.00765	PASS
			MCH	TN	VN	0.43	0.00061	PASS
					VH	-0.57	-0.00081	PASS
					VL	-1.96	-0.00274	PASS
			HCH	TN	VN	-0.76	-0.00106	PASS
					VH	-2.69	-0.00376	PASS
					VL	0.14	0.0002	PASS
		5	LCH	TN	VN	0.07	0.0001	PASS
					VH	-3.12	-0.00445	PASS
					VL	-2.02	-0.00286	PASS
			MCH	TN	VN	-2.32	-0.00328	PASS
					VH	2.15	0.00304	PASS
					VL	-0.56	-0.00078	PASS
			HCH	TN	VN	0.46	0.00064	PASS
					VH	-0.29	-0.00041	PASS
					VL	-1.09	-0.00155	PASS
		10	LCH	TN	VN	-2.50	-0.00355	PASS
					VH	0.63	0.00089	PASS
					VL	-1.73	-0.00245	PASS
			MCH	TN	VL	-1.73	-0.00245	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VN	-0.53	-0.00075	PASS
					VH	-2.15	-0.00304	PASS
					VL	-1.67	-0.00235	PASS
					VN	-0.26	-0.00037	PASS
					VH	-1.22	-0.00172	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
BAND12	-30	LTE/TM1	1.4	LCH	VN	3.60	0.00515	PASS
				MCH	VN	2.89	0.00408	PASS
				HCH	VN	3.79	0.0053	PASS
			3	LCH	VN	-9.07	-0.01295	PASS
				MCH	VN	0.97	0.00137	PASS
				HCH	VN	3.19	0.00446	PASS
			5	LCH	VN	-0.41	-0.00058	PASS
				MCH	VN	-0.06	-0.00008	PASS
				HCH	VN	-1.82	-0.00255	PASS
			10	LCH	VN	0.36	0.00051	PASS
				MCH	VN	-2.03	-0.00287	PASS
				HCH	VN	0.04	0.00006	PASS
		LTE/TM2	1.4	LCH	VN	0.73	0.00104	PASS
				MCH	VN	-1.24	-0.00175	PASS
				HCH	VN	5.64	0.00788	PASS
			3	LCH	VN	-0.46	-0.00066	PASS
				MCH	VN	7.72	0.01091	PASS
				HCH	VN	1.50	0.0021	PASS
			5	LCH	VN	0.07	0.0001	PASS
				MCH	VN	0.11	0.00016	PASS
				HCH	VN	-1.44	-0.00202	PASS
			10	LCH	VN	2.35	0.00334	PASS
				MCH	VN	-0.49	-0.00069	PASS
				HCH	VN	-1.20	-0.00169	PASS
	-20	LTE/TM1	1.4	LCH	VN	-13.09	-0.01871	PASS
				MCH	VN	-18.70	-0.02643	PASS
				HCH	VN	-0.33	-0.00046	PASS
			3	LCH	VN	-0.93	-0.00133	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				MCH	VN	-0.19	-0.00027	PASS
				HCH	VN	-11.66	-0.01632	PASS
			5	LCH	VN	0.07	0.0001	PASS
				MCH	VN	-0.57	-0.00081	PASS
				HCH	VN	-0.67	-0.00094	PASS
			10	LCH	VN	-2.02	-0.00287	PASS
				MCH	VN	0.72	0.00102	PASS
				HCH	VN	0.69	0.00097	PASS
		LTE/TM2	1.4	LCH	VN	-0.24	-0.00034	PASS
				MCH	VN	-3.28	-0.00464	PASS
				HCH	VN	-2.30	-0.00322	PASS
			3	LCH	VN	-6.04	-0.00862	PASS
				MCH	VN	-1.65	-0.00233	PASS
				HCH	VN	-0.47	-0.00066	PASS
			5	LCH	VN	-4.35	-0.0062	PASS
				MCH	VN	-0.37	-0.00052	PASS
				HCH	VN	0.60	0.00084	PASS
			10	LCH	VN	0.90	0.00128	PASS
				MCH	VN	-3.02	-0.00427	PASS
				HCH	VN	-0.26	-0.00037	PASS
	-10	LTE/TM1	1.4	LCH	VN	-7.54	-0.01078	PASS
				MCH	VN	1.12	0.00158	PASS
				HCH	VN	2.37	0.00331	PASS
			3	LCH	VN	2.65	0.00378	PASS
				MCH	VN	0.50	0.00071	PASS
				HCH	VN	4.89	0.00684	PASS
			5	LCH	VN	-2.39	-0.00341	PASS
				MCH	VN	-0.62	-0.00088	PASS
				HCH	VN	-1.87	-0.00262	PASS
			10	LCH	VN	-0.50	-0.00071	PASS
				MCH	VN	-0.70	-0.00099	PASS
				HCH	VN	-0.43	-0.0006	PASS
		LTE/TM2	1.4	LCH	VN	-1.46	-0.00209	PASS
				MCH	VN	2.73	0.00386	PASS
				HCH	VN	0.60	0.00084	PASS
			3	LCH	VN	-1.36	-0.00194	PASS
				MCH	VN	-3.09	-0.00437	PASS
				HCH	VN	5.34	0.00747	PASS
			5	LCH	VN	8.08	0.01152	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
				MCH	VN	-3.15	-0.00445	PASS	
				HCH	VN	0.31	0.00043	PASS	
			10	LCH	VN	-2.26	-0.00321	PASS	
				MCH	VN	-2.75	-0.00389	PASS	
				HCH	VN	0.26	0.00037	PASS	
	0	LTE/TM1	1.4	LCH	VN	-0.31	-0.00044	PASS	
				MCH	VN	11.32	0.016	PASS	
				HCH	VN	-16.68	-0.02332	PASS	
			3	LCH	VN	2.37	0.00338	PASS	
				MCH	VN	1.04	0.00147	PASS	
				HCH	VN	3.10	0.00434	PASS	
			5	LCH	VN	-0.57	-0.00081	PASS	
				MCH	VN	-1.63	-0.0023	PASS	
				HCH	VN	0.33	0.00046	PASS	
			10	LCH	VN	-1.40	-0.00199	PASS	
				MCH	VN	-3.25	-0.00459	PASS	
				HCH	VN	0.62	0.00087	PASS	
			LTE/TM2	1.4	LCH	VN	0.72	0.00103	PASS
					MCH	VN	16.69	0.02359	PASS
					HCH	VN	-1.54	-0.00215	PASS
				3	LCH	VN	-0.90	-0.00128	PASS
					MCH	VN	-0.03	-0.00004	PASS
					HCH	VN	6.08	0.00851	PASS
		5		LCH	VN	-0.36	-0.00051	PASS	
				MCH	VN	-0.34	-0.00048	PASS	
				HCH	VN	0.04	0.00006	PASS	
		10	LCH	VN	0.26	0.00037	PASS		
			MCH	VN	0.64	0.0009	PASS		
			HCH	VN	-0.84	-0.00118	PASS		
	10	LTE/TM1	1.4	LCH	VN	-16.41	-0.02345	PASS	
				MCH	VN	-3.22	-0.00455	PASS	
				HCH	VN	-1.89	-0.00264	PASS	
			3	LCH	VN	2.55	0.00364	PASS	
				MCH	VN	4.65	0.00657	PASS	
				HCH	VN	2.37	0.00332	PASS	
			5	LCH	VN	0.47	0.00067	PASS	
				MCH	VN	0.36	0.00051	PASS	
				HCH	VN	-0.76	-0.00107	PASS	
			10	LCH	VN	-1.23	-0.00175	PASS	

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	20	LTE/TM2		MCH	VN	0.92	0.0013	PASS
				HCH	VN	0.04	0.00006	PASS
				LCH	VN	0.19	0.00027	PASS
			1.4	MCH	VN	11.01	0.01556	PASS
				HCH	VN	1.39	0.00194	PASS
				LCH	VN	-0.31	-0.00044	PASS
			3	MCH	VN	4.41	0.00623	PASS
				HCH	VN	12.46	0.01744	PASS
				LCH	VN	-1.27	-0.00181	PASS
			5	MCH	VN	1.62	0.00229	PASS
				HCH	VN	2.10	0.00294	PASS
				LCH	VN	0.23	0.00033	PASS
			10	MCH	VN	-2.42	-0.00342	PASS
				HCH	VN	-1.39	-0.00195	PASS
				LCH	VN	3.32	0.00474	PASS
	20	LTE/TM1	1.4	MCH	VN	1.75	0.00247	PASS
				HCH	VN	2.56	0.00358	PASS
				LCH	VN	1.37	0.00196	PASS
			3	MCH	VN	2.55	0.0036	PASS
				HCH	VN	-3.58	-0.00501	PASS
				LCH	VN	-2.65	-0.00378	PASS
			5	MCH	VN	0.70	0.00099	PASS
				HCH	VN	-1.17	-0.00164	PASS
				LCH	VN	0.09	0.00013	PASS
			10	MCH	VN	0.92	0.0013	PASS
				HCH	VN	0.11	0.00015	PASS
				LCH	VN	6.49	0.00928	PASS
		LTE/TM2	1.4	MCH	VN	10.71	0.01514	PASS
				HCH	VN	-0.74	-0.00103	PASS
				LCH	VN	-2.49	-0.00355	PASS
			3	MCH	VN	-0.49	-0.00069	PASS
				HCH	VN	2.27	0.00318	PASS
				LCH	VN	0.62	0.00088	PASS
			5	MCH	VN	-0.77	-0.00109	PASS
				HCH	VN	-1.33	-0.00186	PASS
				LCH	VN	-0.93	-0.00132	PASS
			10	MCH	VN	0.27	0.00038	PASS
				HCH	VN	-0.21	-0.0003	PASS
				LCH	VN	-5.12	-0.00732	PASS
	30	LTE/TM1	1.4	LCH	VN	-5.12	-0.00732	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	40			MCH	VN	5.56	0.00786	PASS
				HCH	VN	-9.96	-0.01392	PASS
				LCH	VN	0.14	0.0002	PASS
			3	MCH	VN	1.17	0.00165	PASS
				HCH	VN	-3.55	-0.00497	PASS
				LCH	VN	0.37	0.00053	PASS
			5	MCH	VN	-0.26	-0.00037	PASS
				HCH	VN	-0.27	-0.00038	PASS
				LCH	VN	0.50	0.00071	PASS
			10	MCH	VN	0.77	0.00109	PASS
				HCH	VN	0.46	0.00065	PASS
				LCH	VN	-0.17	-0.00024	PASS
		LTE/TM2	1.4	MCH	VN	1.60	0.00226	PASS
				HCH	VN	-11.23	-0.0157	PASS
				LCH	VN	0.26	0.00037	PASS
			3	MCH	VN	-5.01	-0.00708	PASS
				HCH	VN	-0.19	-0.00027	PASS
				LCH	VN	-2.13	-0.00304	PASS
			5	MCH	VN	1.97	0.00278	PASS
				HCH	VN	0.03	0.00004	PASS
				LCH	VN	-0.17	-0.00024	PASS
			10	MCH	VN	-0.80	-0.00113	PASS
				HCH	VN	-2.45	-0.00345	PASS
				LCH	VN	19.10	0.0273	PASS
		LTE/TM1	1.4	MCH	VN	2.07	0.00293	PASS
				HCH	VN	-6.51	-0.0091	PASS
				LCH	VN	-1.89	-0.0027	PASS
			3	MCH	VN	-0.76	-0.00107	PASS
				HCH	VN	-2.63	-0.00368	PASS
				LCH	VN	1.14	0.00163	PASS
			5	MCH	VN	-3.13	-0.00442	PASS
				HCH	VN	1.46	0.00205	PASS
				LCH	VN	0.57	0.00081	PASS
			10	MCH	VN	-1.23	-0.00174	PASS
				HCH	VN	-0.92	-0.00129	PASS
				LCH	VN	-1.14	-0.00163	PASS
		LTE/TM2	1.4	MCH	VN	6.94	0.00981	PASS
				HCH	VN	0.11	0.00015	PASS
				LCH	VN	3.38	0.00483	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				MCH	VN	2.43	0.00343	PASS
				HCH	VN	1.06	0.00148	PASS
				LCH	VN	-3.39	-0.00483	PASS
			5	MCH	VN	1.14	0.00161	PASS
				HCH	VN	-1.95	-0.00273	PASS
				LCH	VN	-1.76	-0.0025	PASS
			10	MCH	VN	0.13	0.00018	PASS
				HCH	VN	0.00	0	PASS
				LCH	VN	4.26	0.00609	PASS
	50	LTE/TM1	1.4	MCH	VN	-6.31	-0.00892	PASS
				HCH	VN	2.82	0.00394	PASS
				LCH	VN	0.43	0.00061	PASS
			3	MCH	VN	8.37	0.01183	PASS
				HCH	VN	-1.70	-0.00238	PASS
				LCH	VN	-2.36	-0.00336	PASS
			5	MCH	VN	-1.60	-0.00226	PASS
				HCH	VN	-0.09	-0.00013	PASS
				LCH	VN	-0.51	-0.00072	PASS
			10	MCH	VN	-0.66	-0.00093	PASS
				HCH	VN	-0.46	-0.00065	PASS
				LCH	VN	-3.91	-0.00559	PASS
		LTE/TM2	1.4	MCH	VN	2.10	0.00297	PASS
				HCH	VN	-5.19	-0.00726	PASS
				LCH	VN	2.35	0.00335	PASS
			3	MCH	VN	0.40	0.00057	PASS
				HCH	VN	7.57	0.01059	PASS
				LCH	VN	-1.27	-0.00181	PASS
			5	MCH	VN	0.39	0.00055	PASS
				HCH	VN	1.23	0.00172	PASS
				LCH	VN	3.38	0.0048	PASS
			10	MCH	VN	-0.34	-0.00048	PASS
				HCH	VN	0.06	0.00008	PASS

END