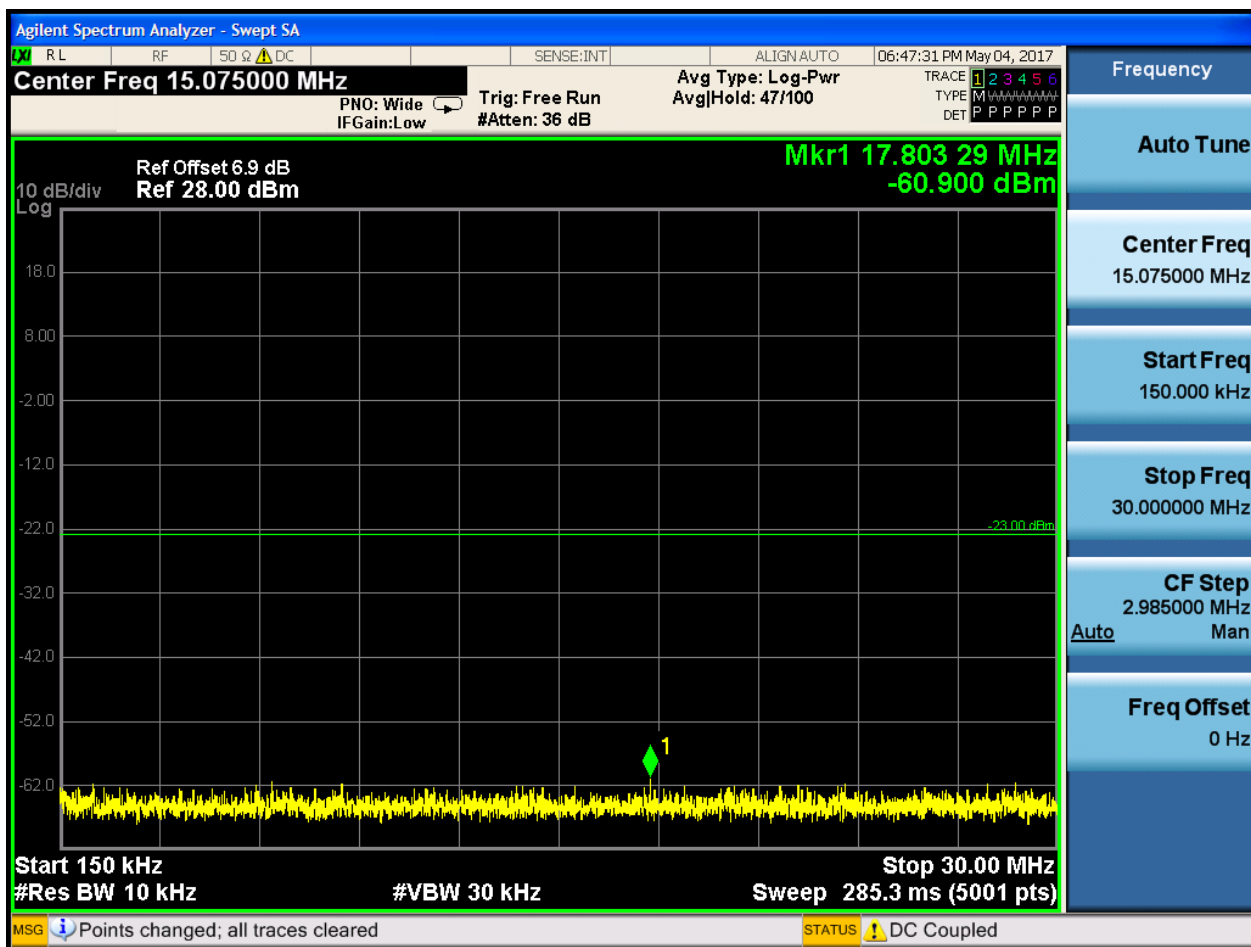
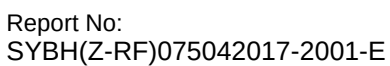
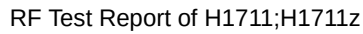
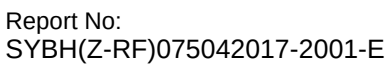
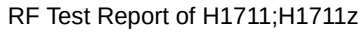






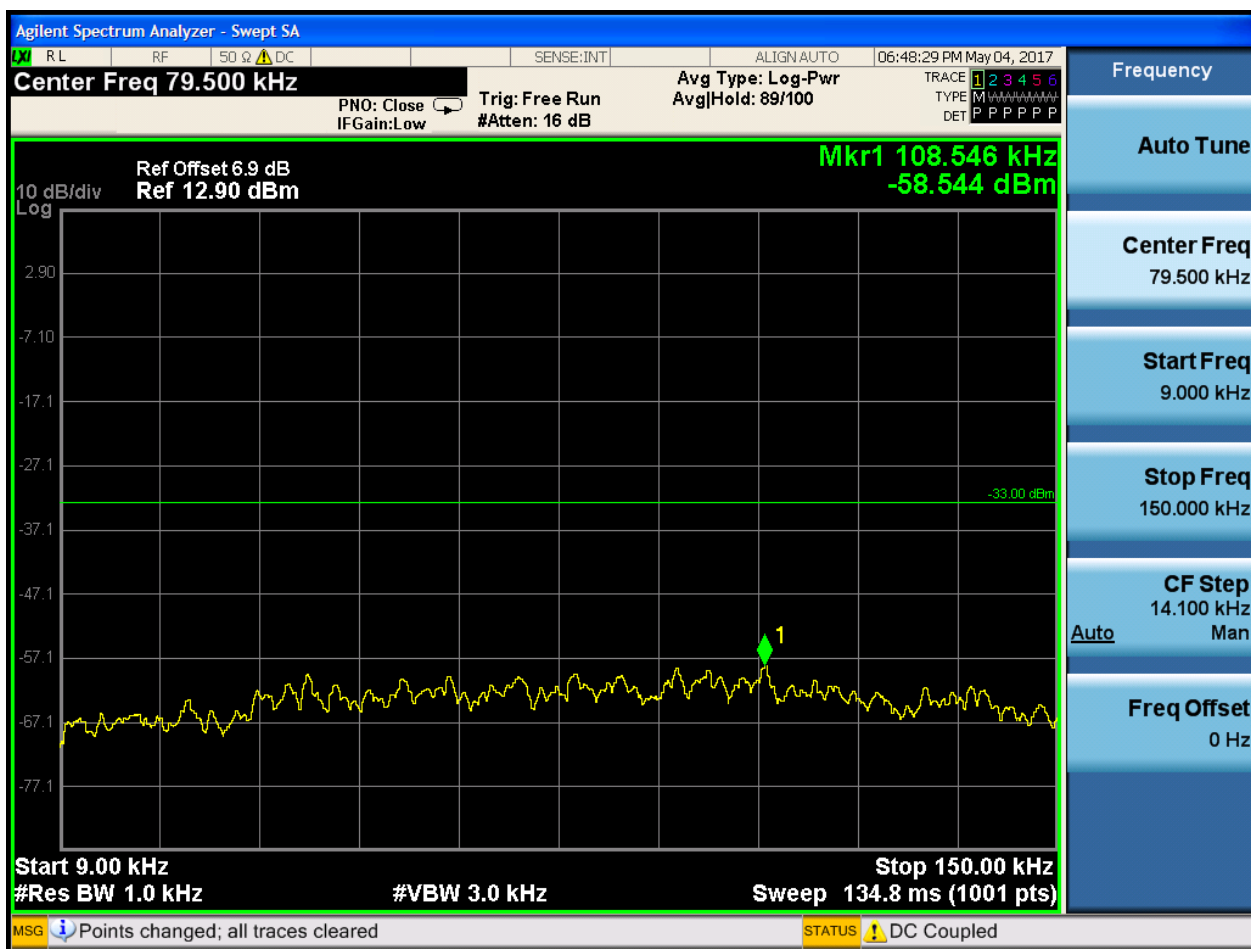


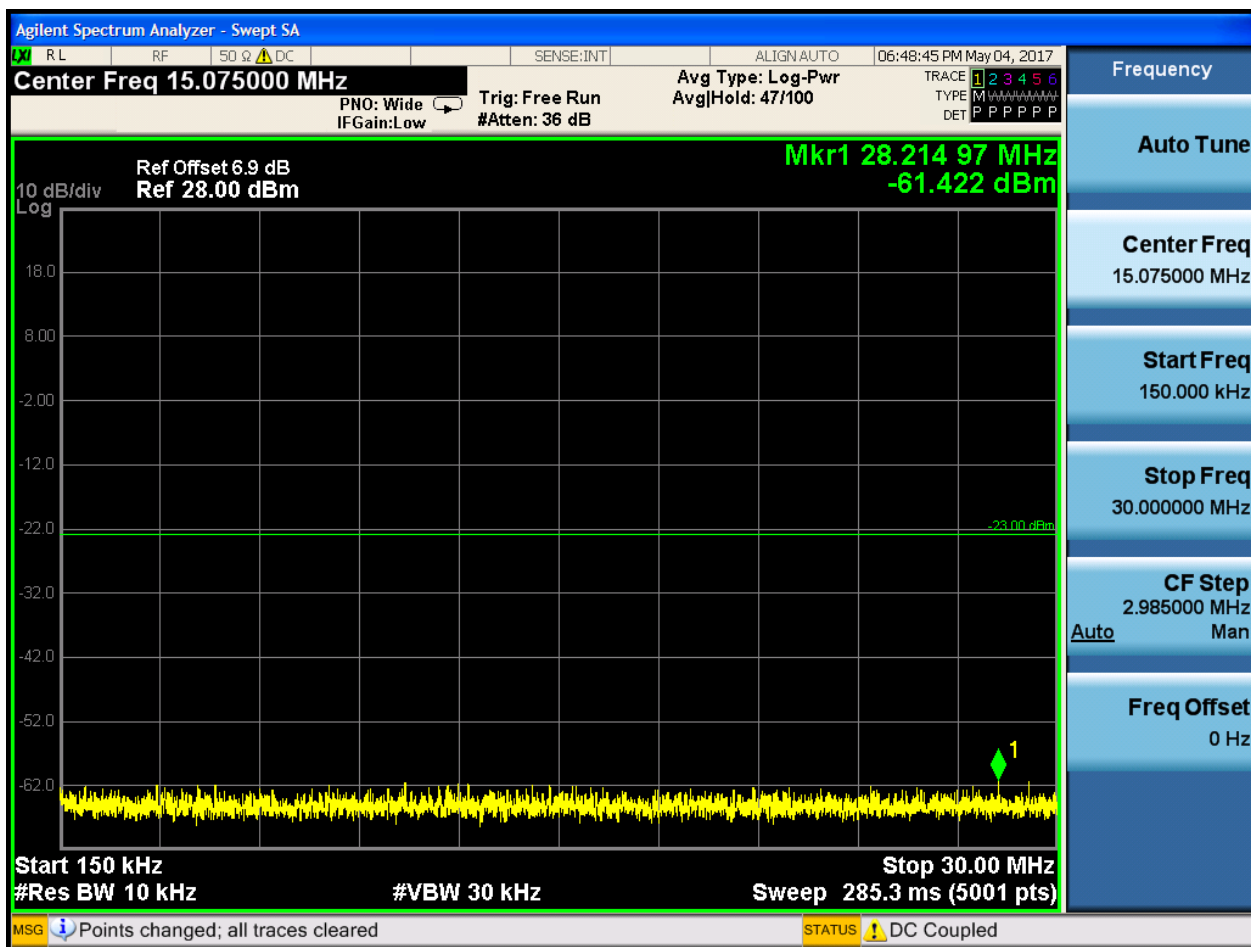


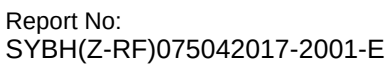
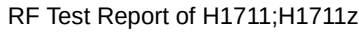
6.1.1.1.2 Test Bandwidth = 3

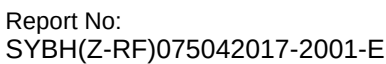
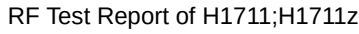
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





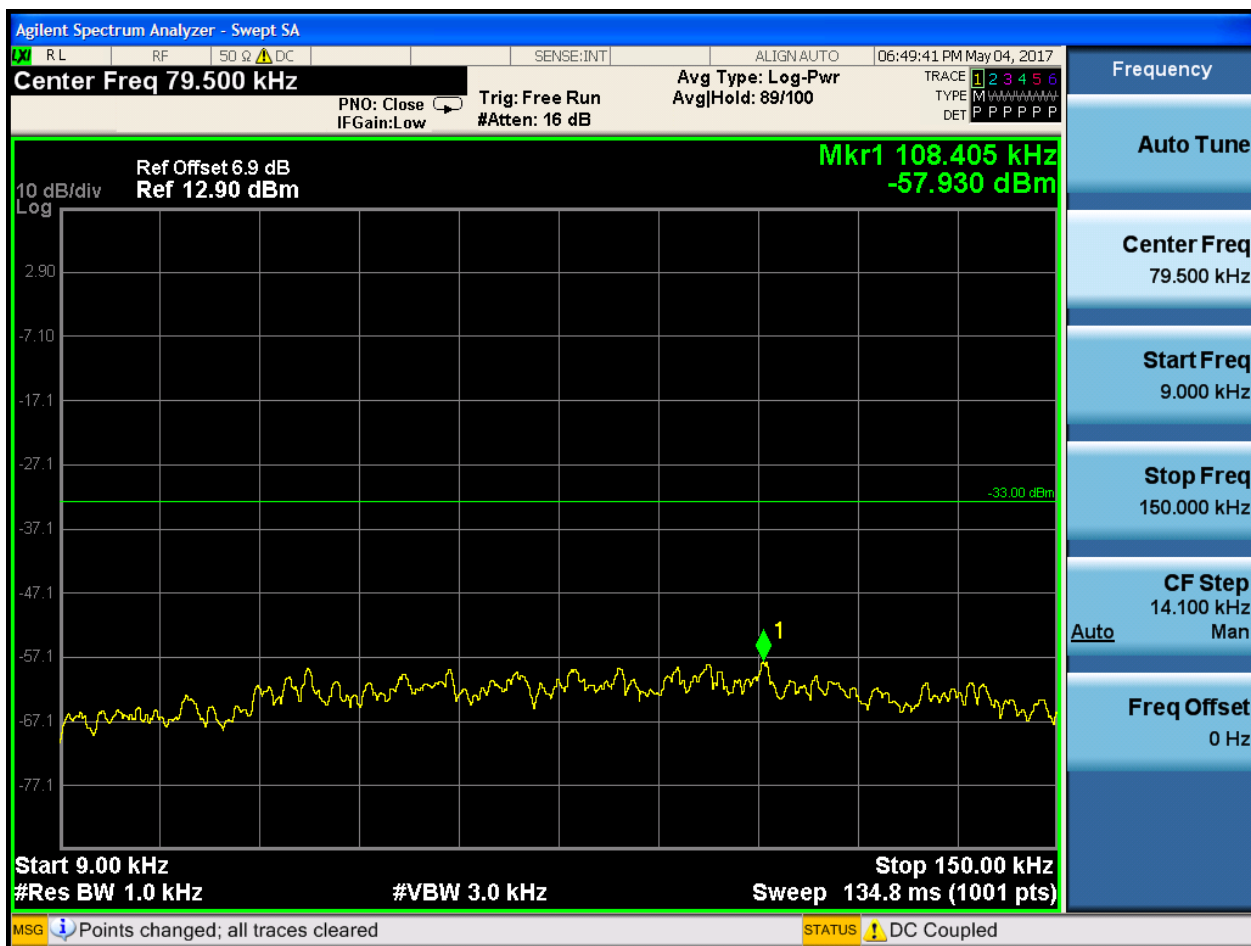


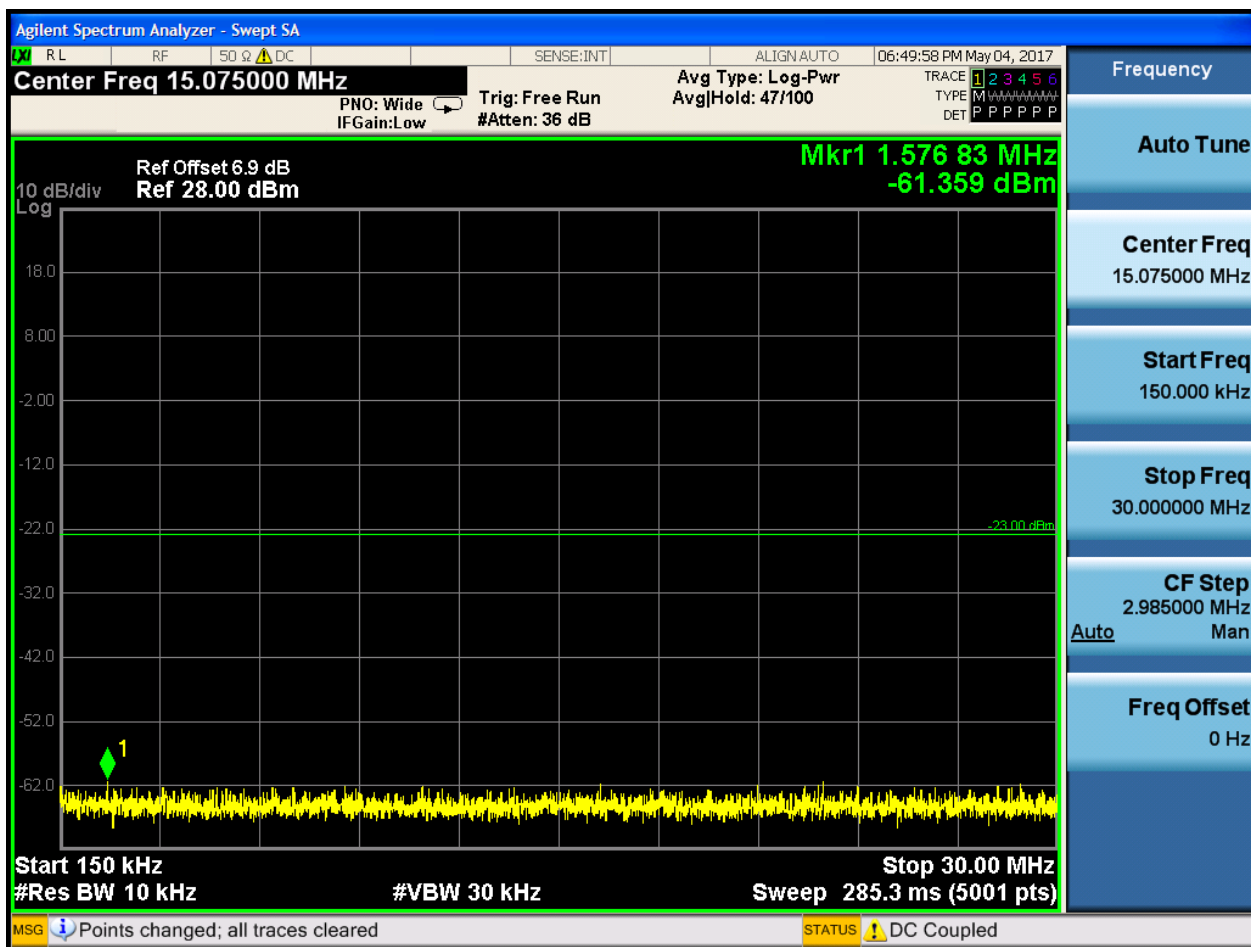


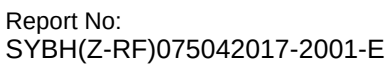
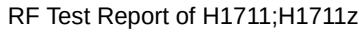


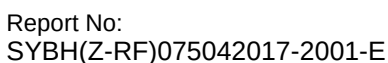
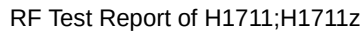
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



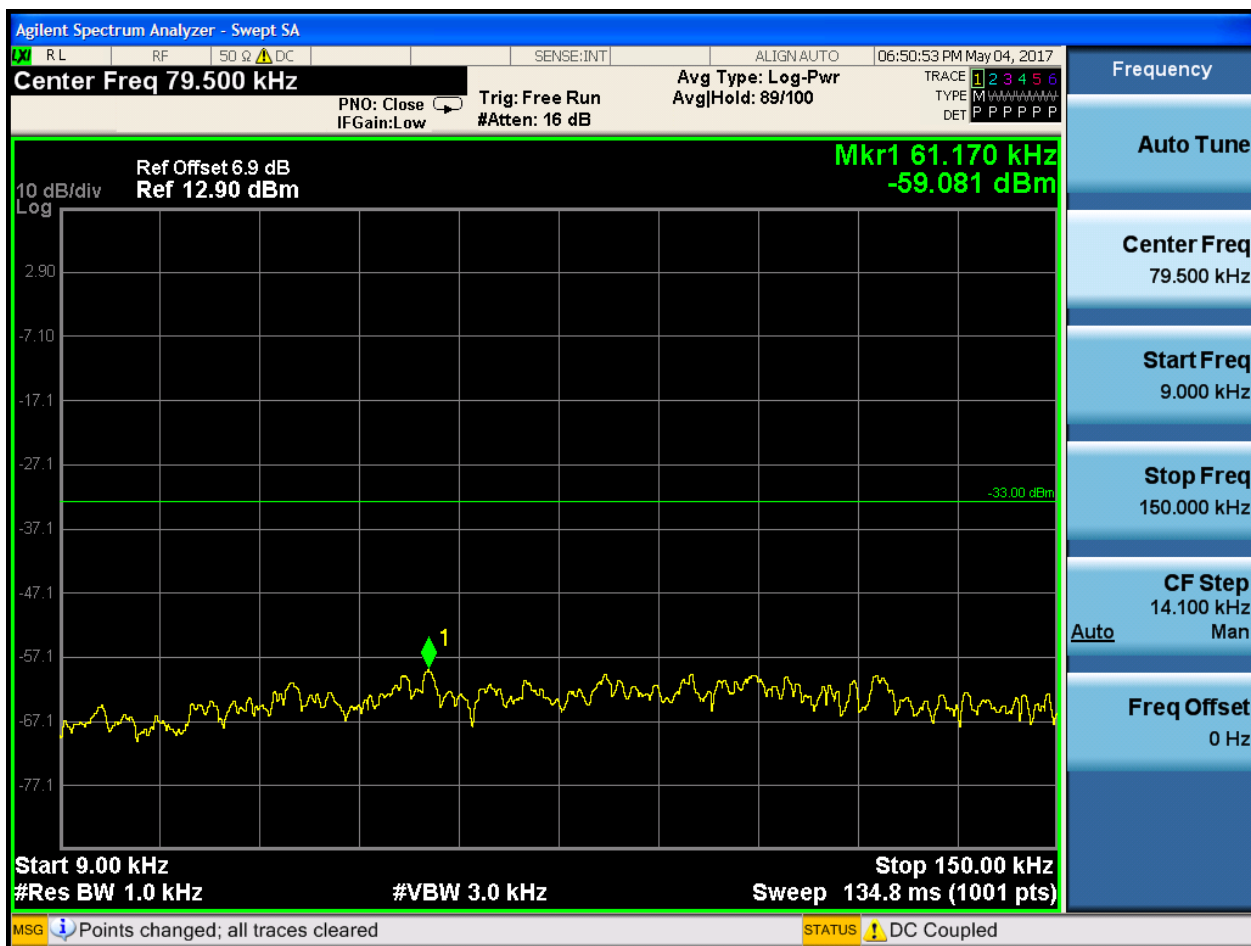


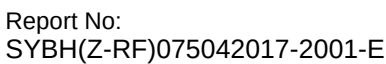
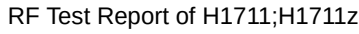


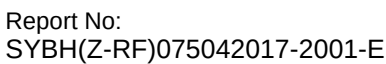
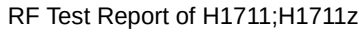


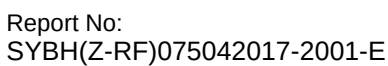
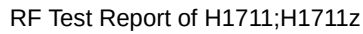
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







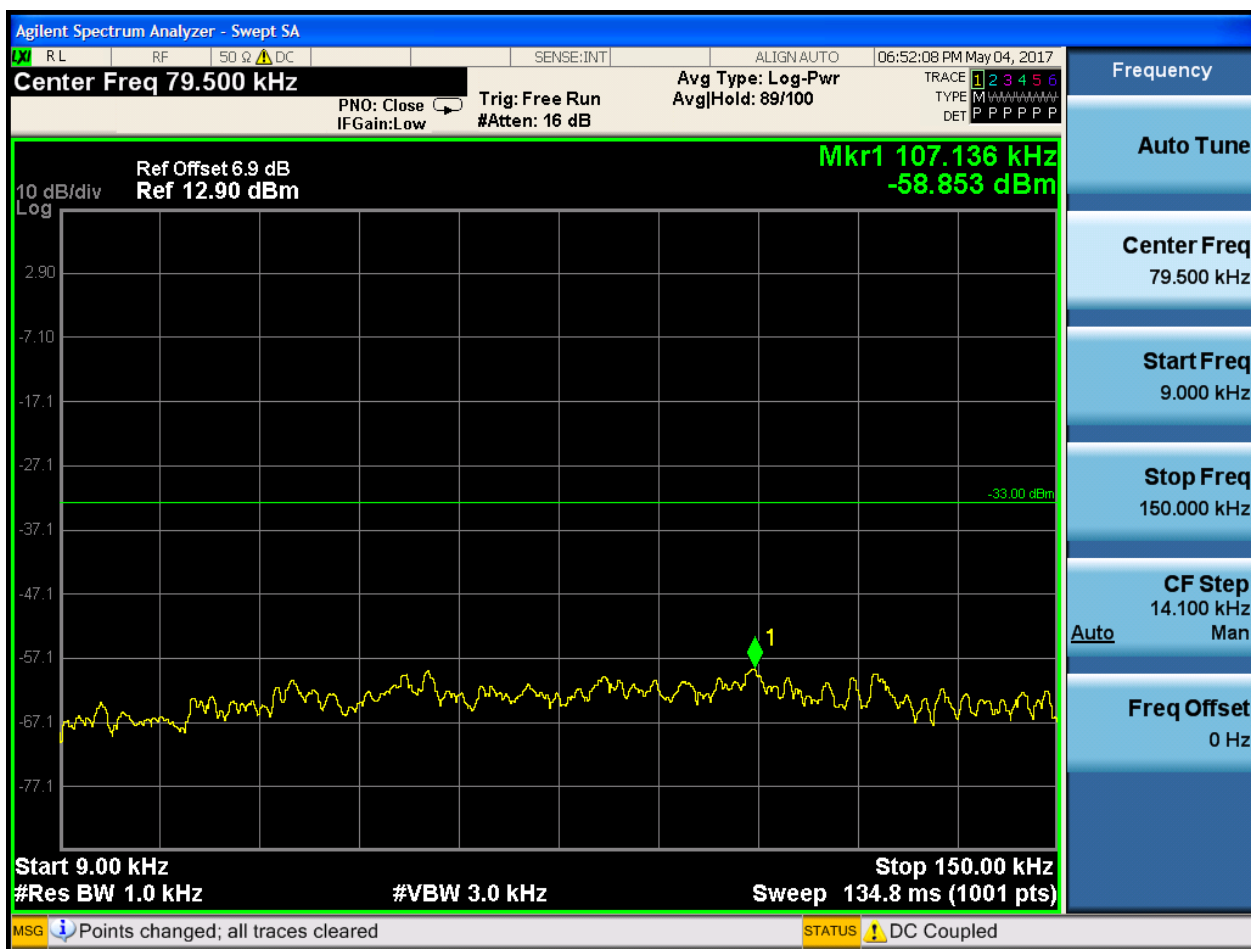


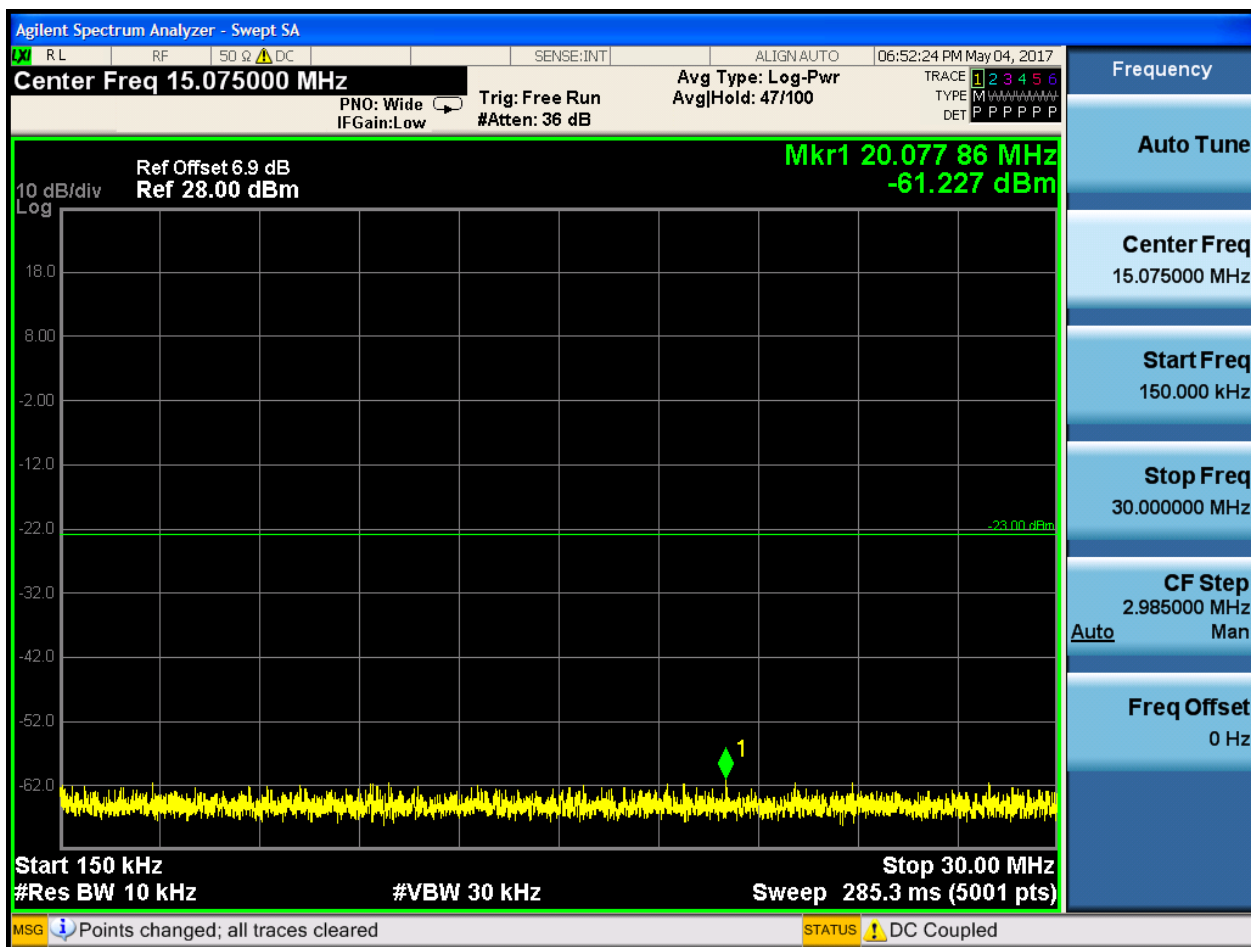


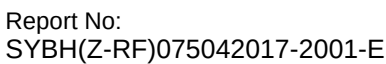
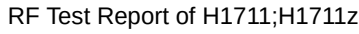
6.1.1.1.3 Test Bandwidth = 5

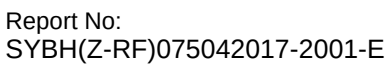
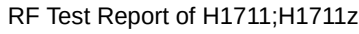
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





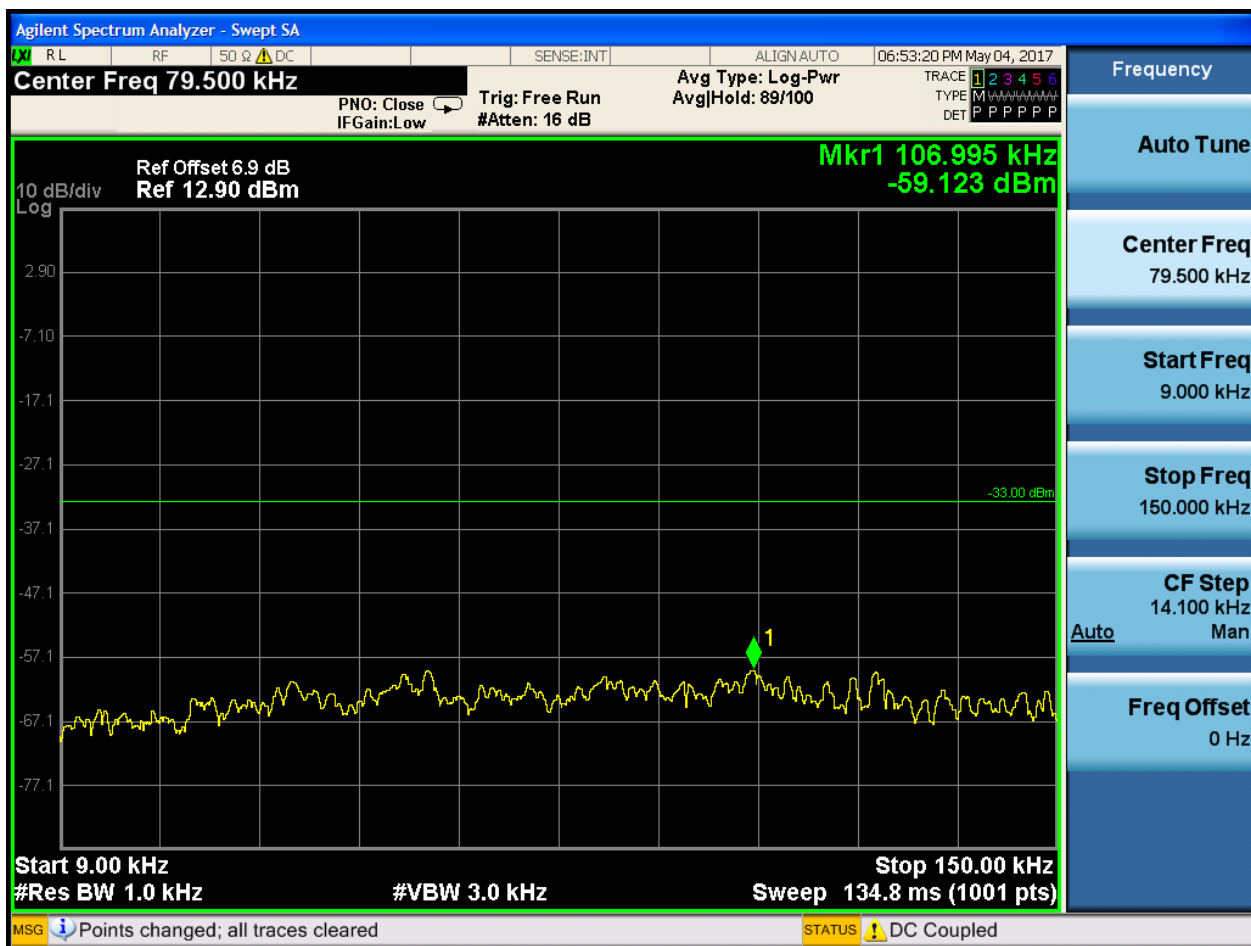


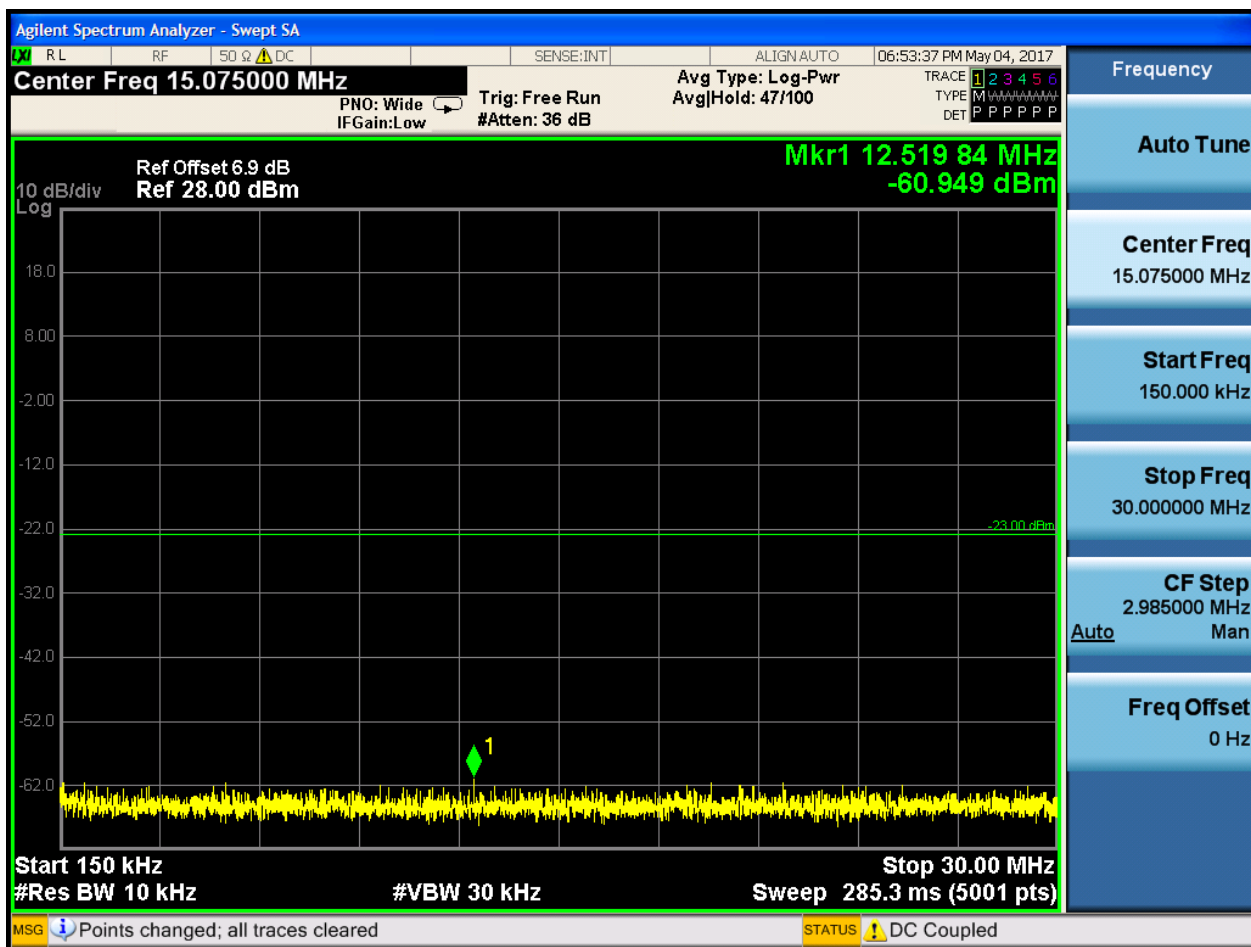


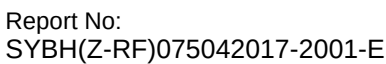
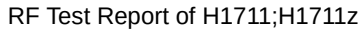


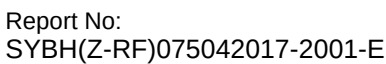
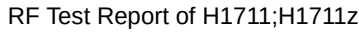
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



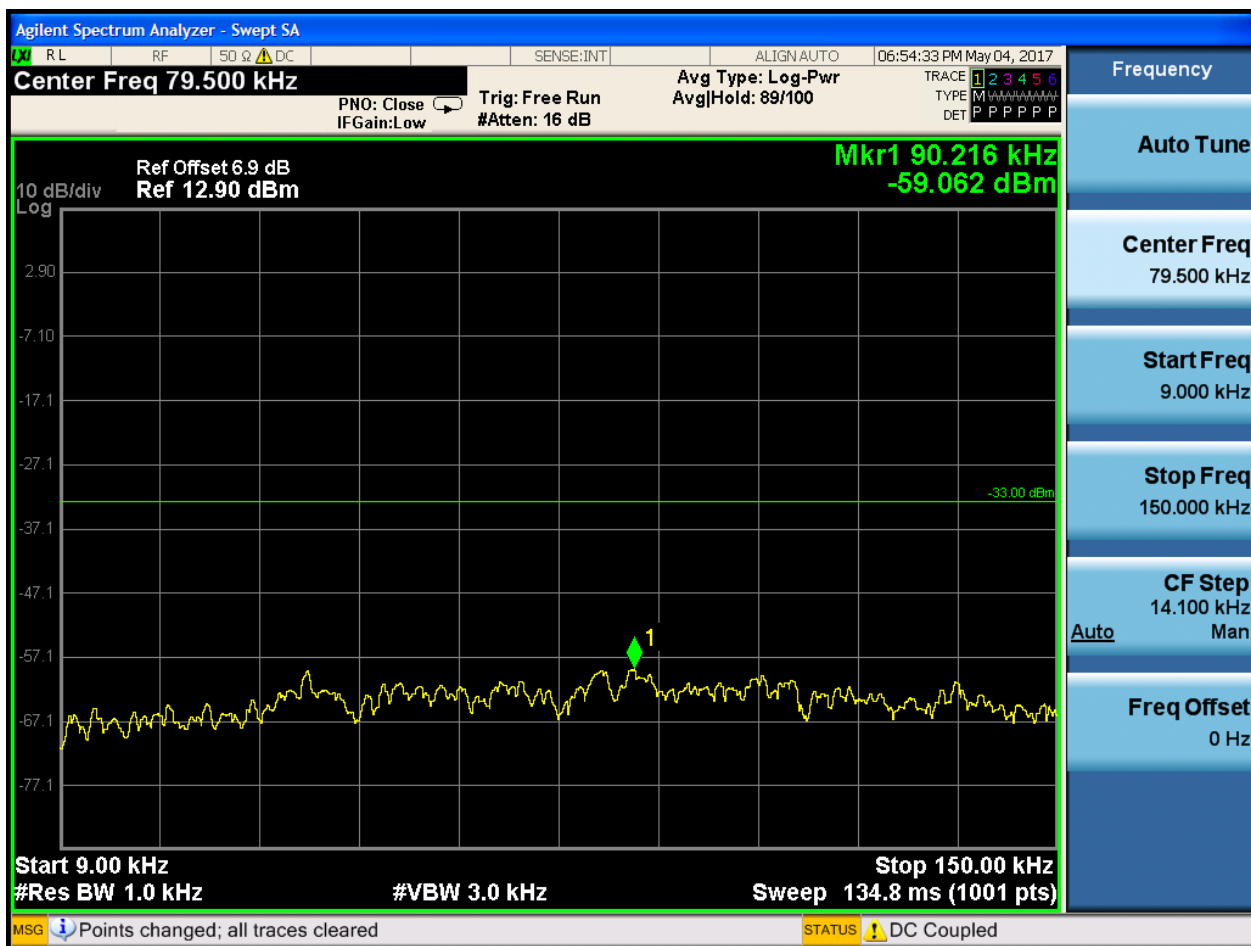


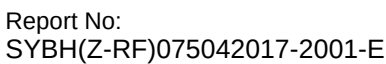
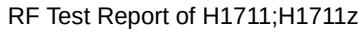


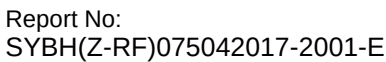
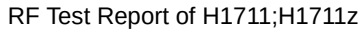


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



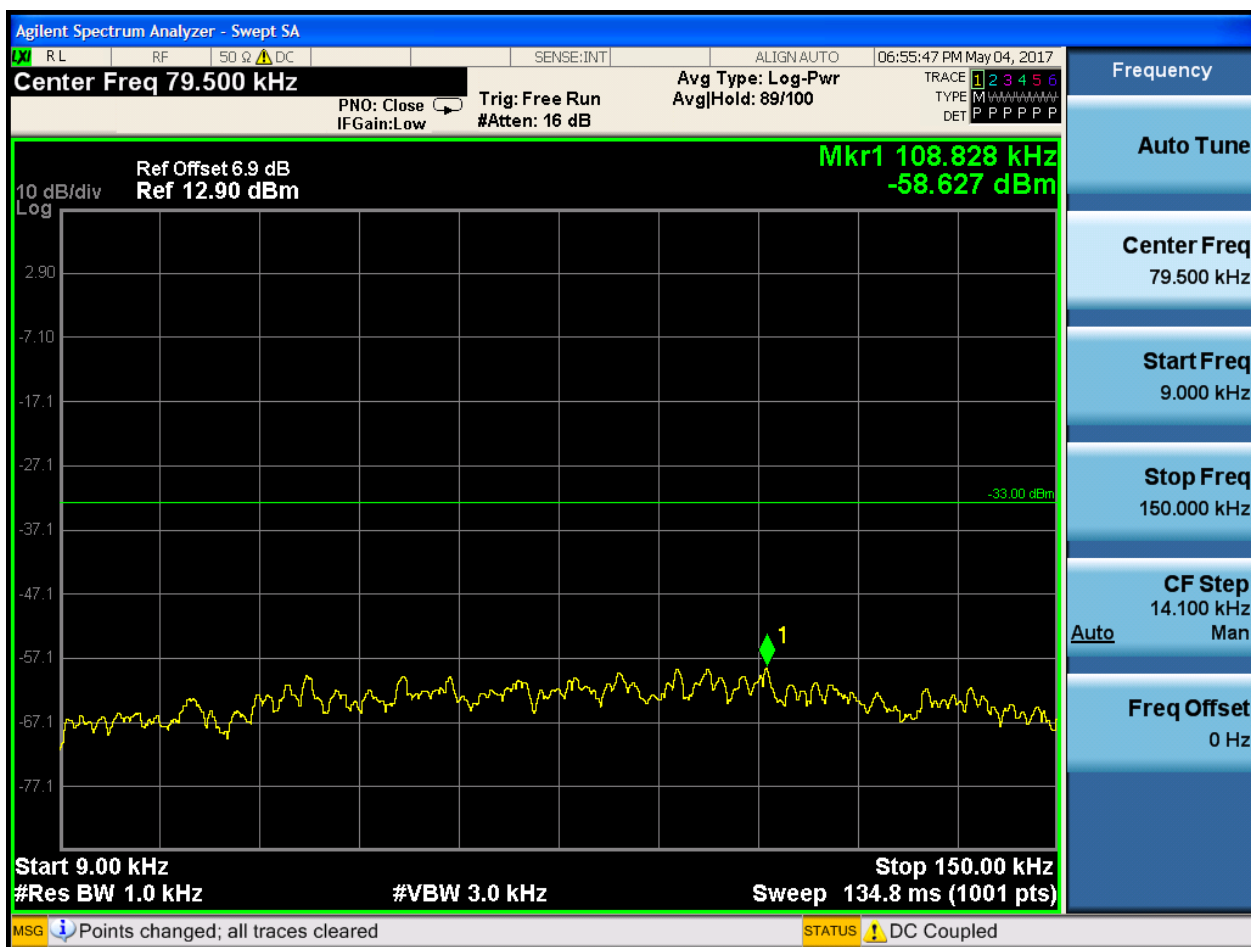


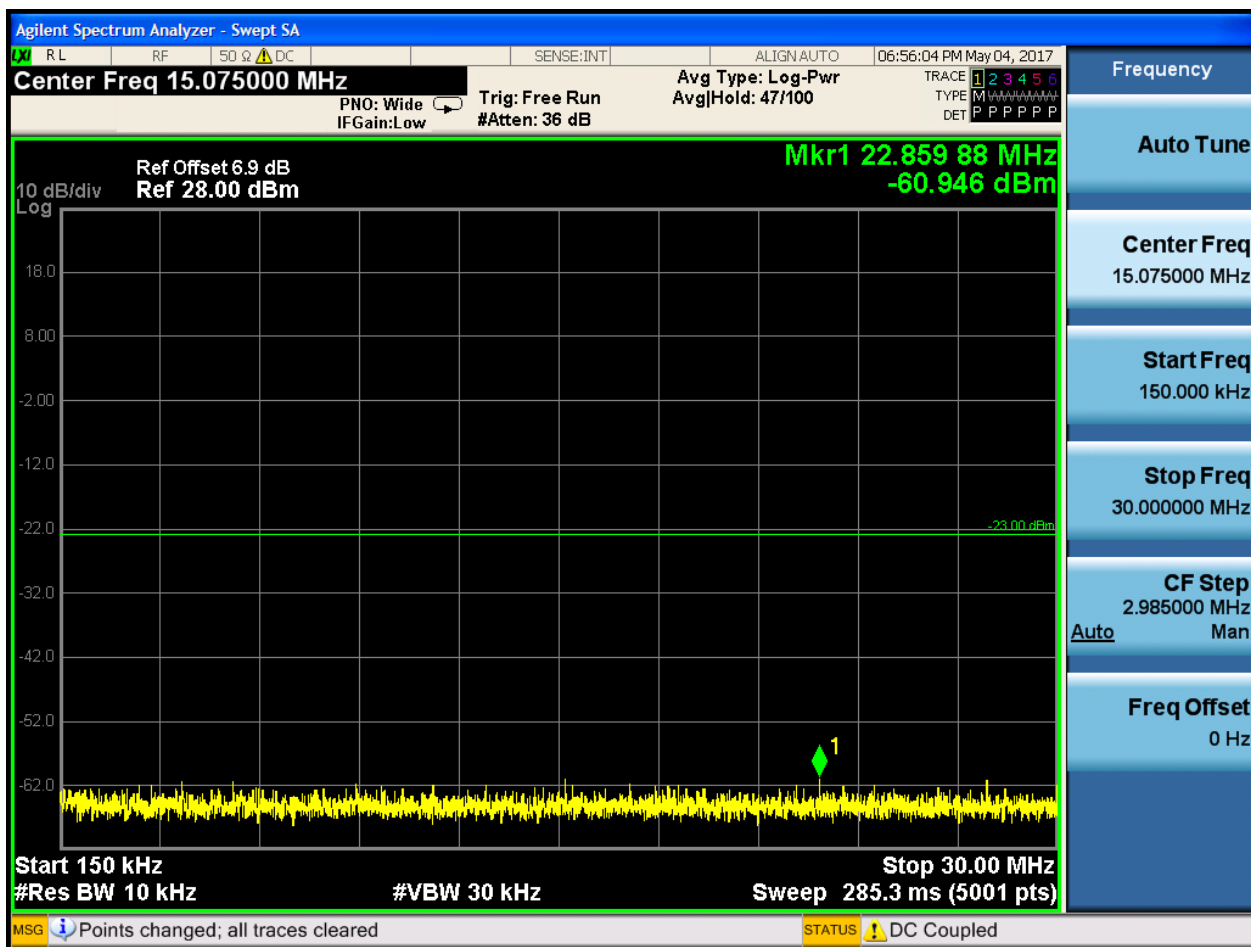


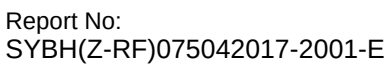
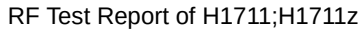
6.1.1.1.4 Test Bandwidth = 10

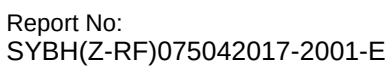
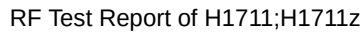
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



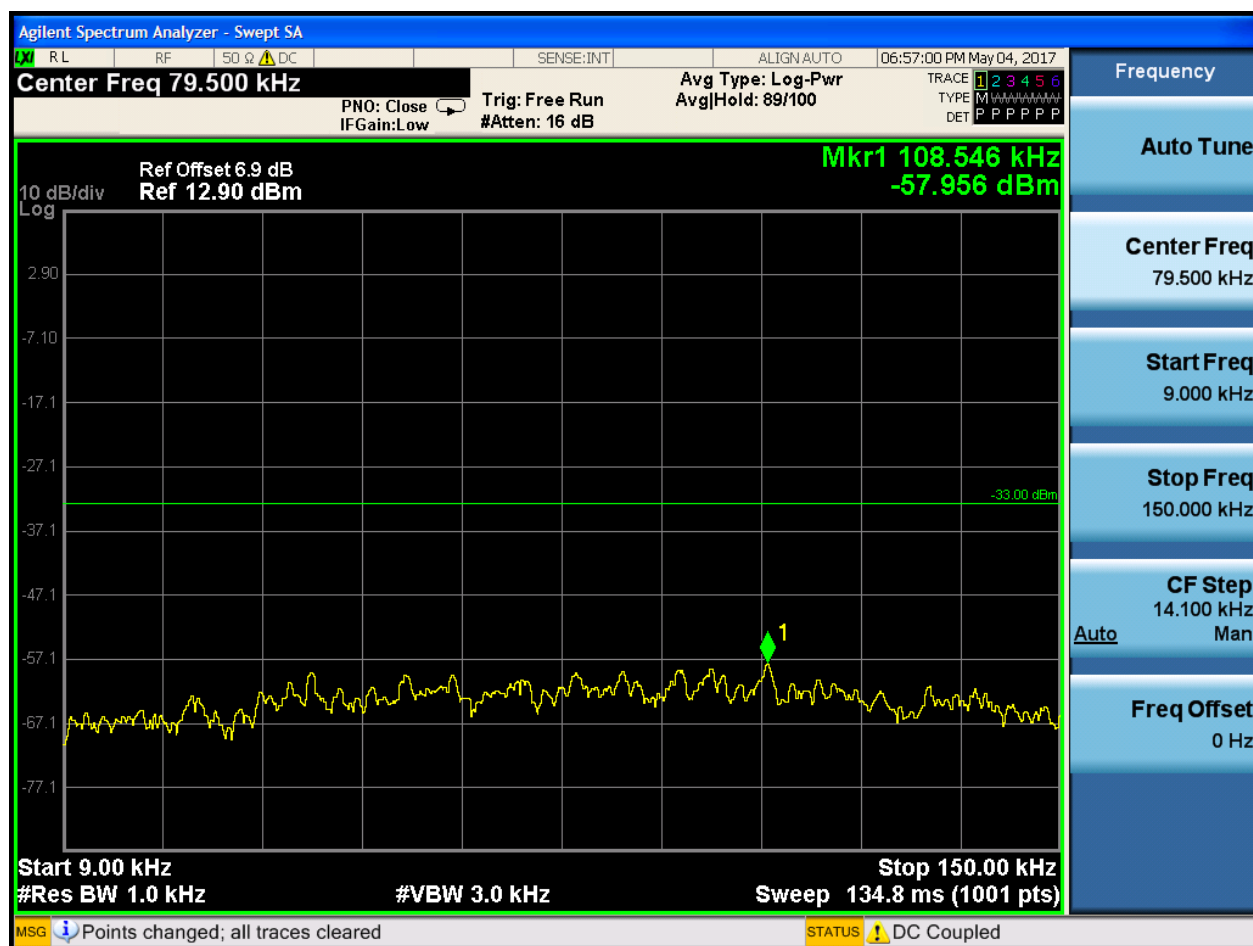


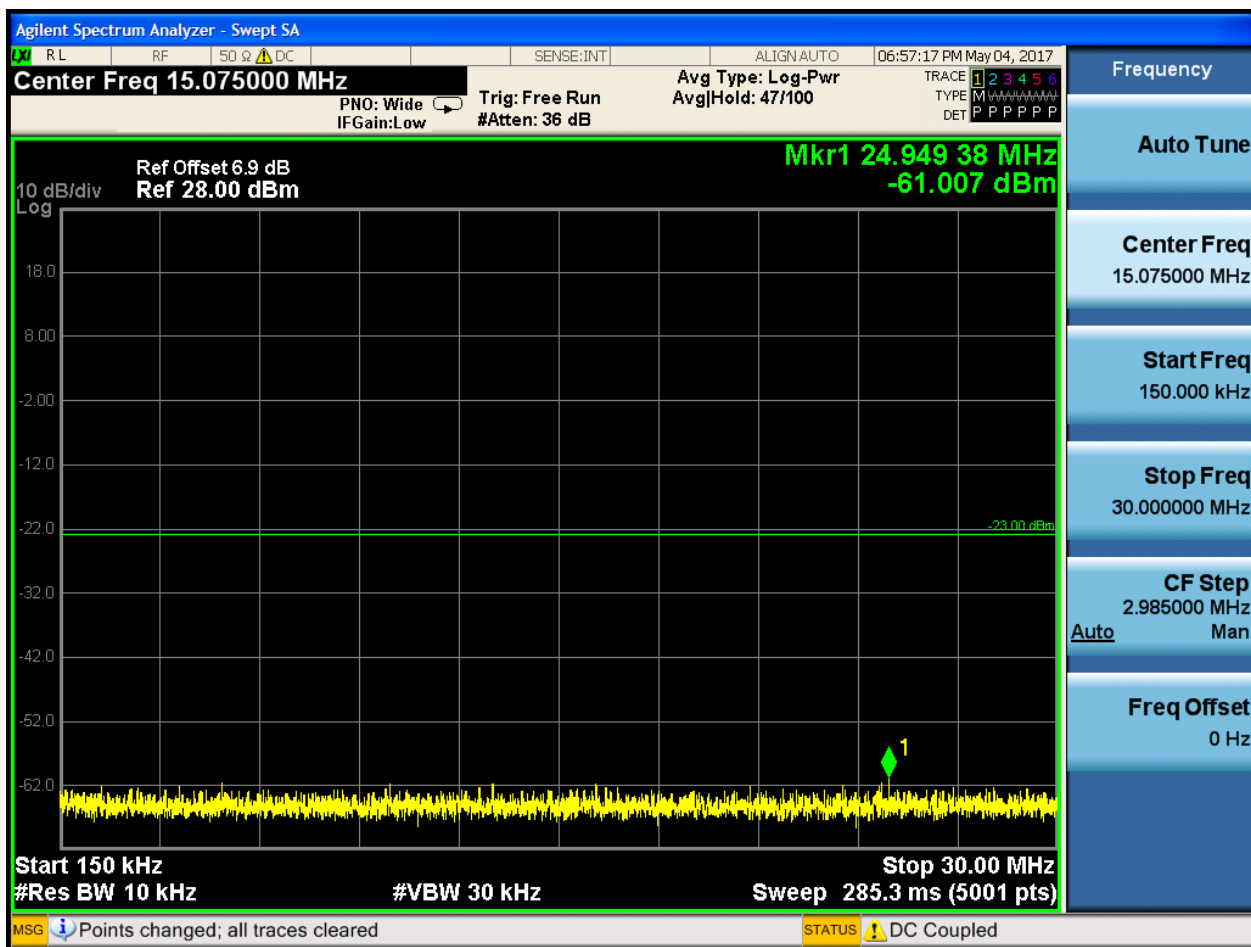


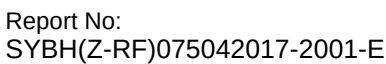
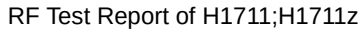


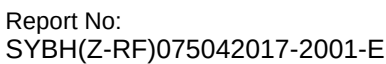
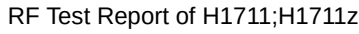
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



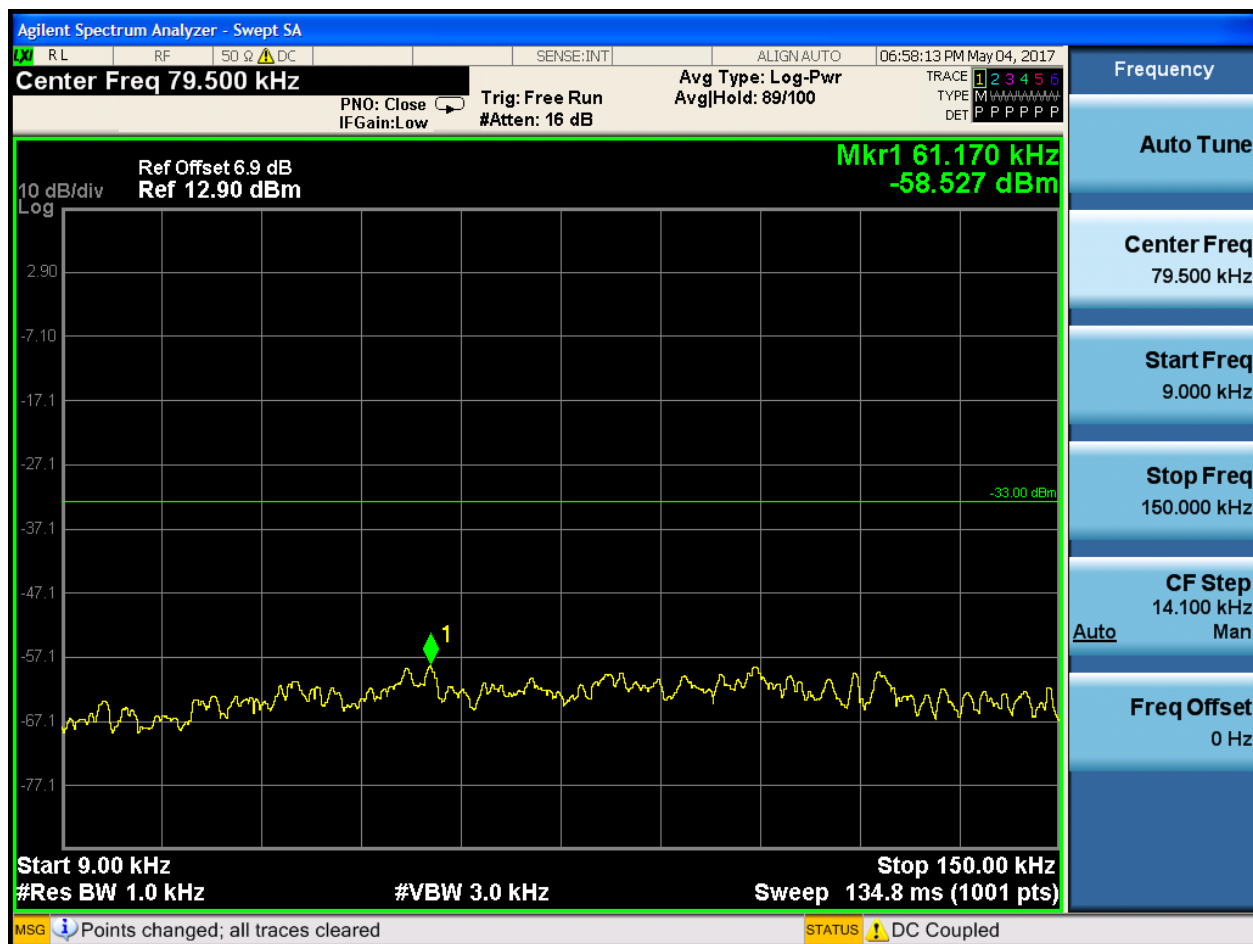


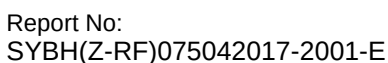
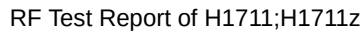


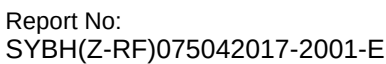
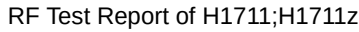


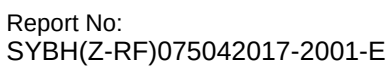
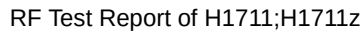
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







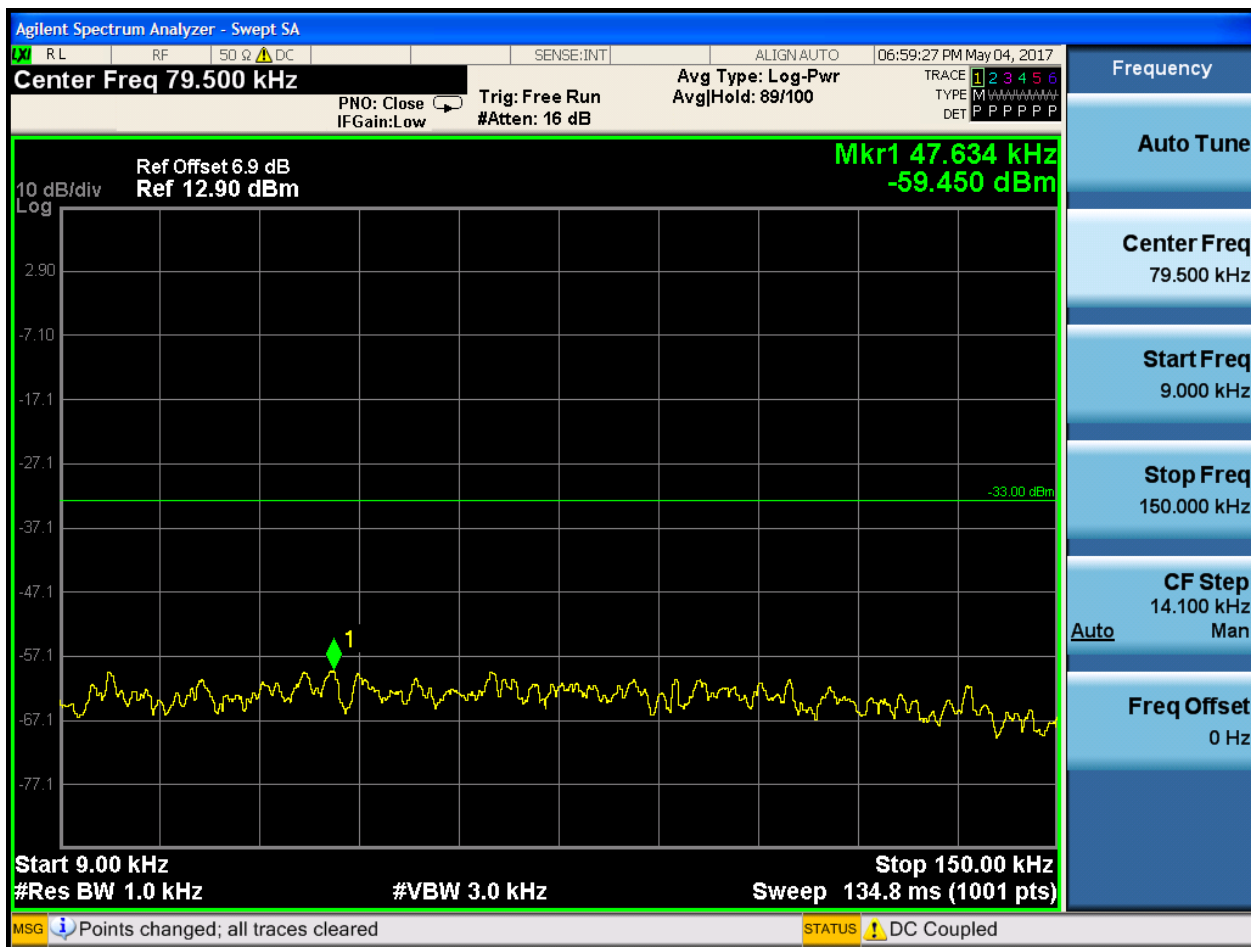


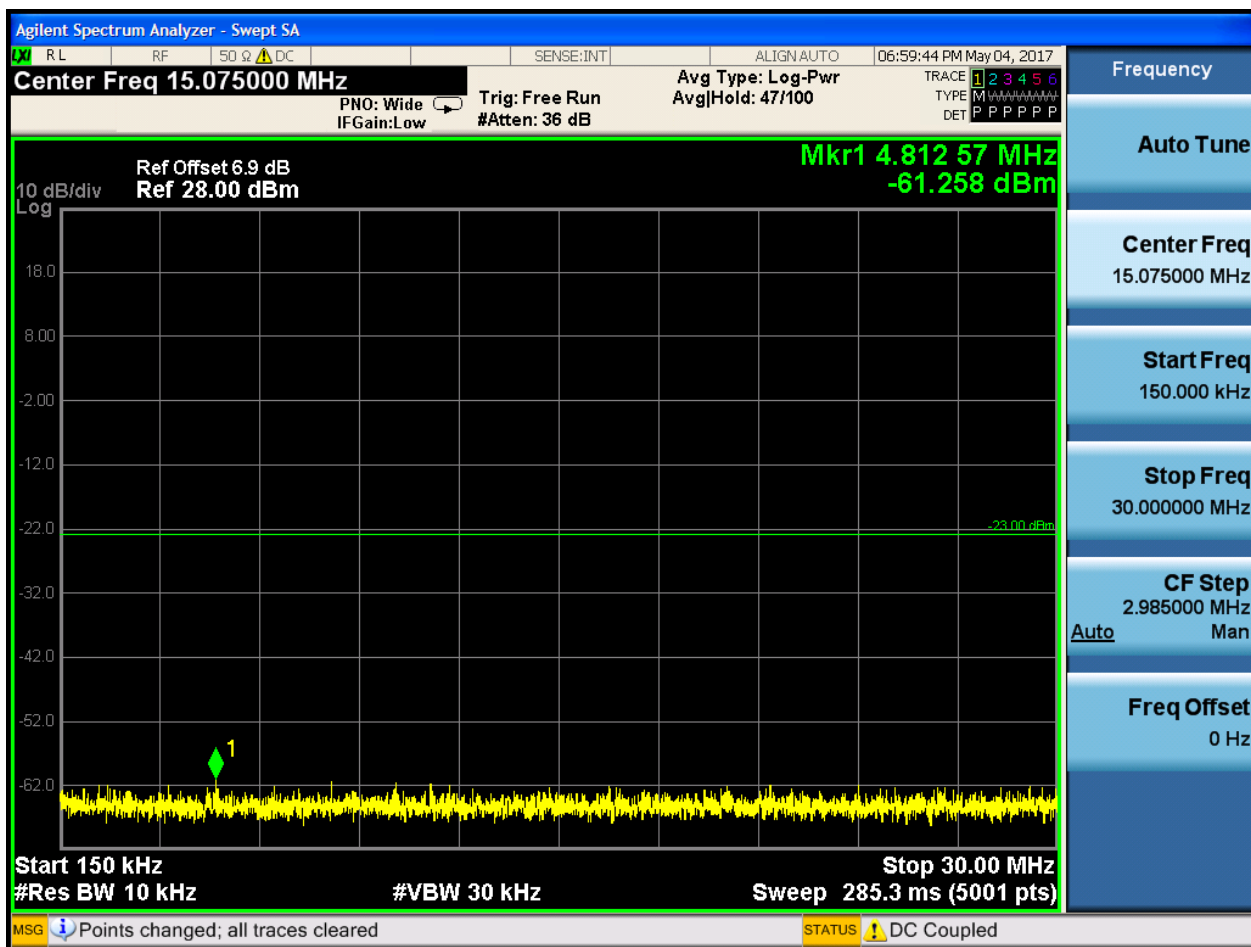
6.1.1.2 Test Mode = LTE/TM2

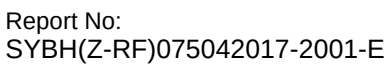
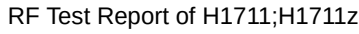
6.1.1.2.1 Test Bandwidth = 1.4

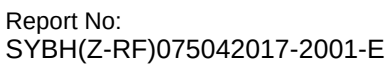
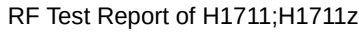
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





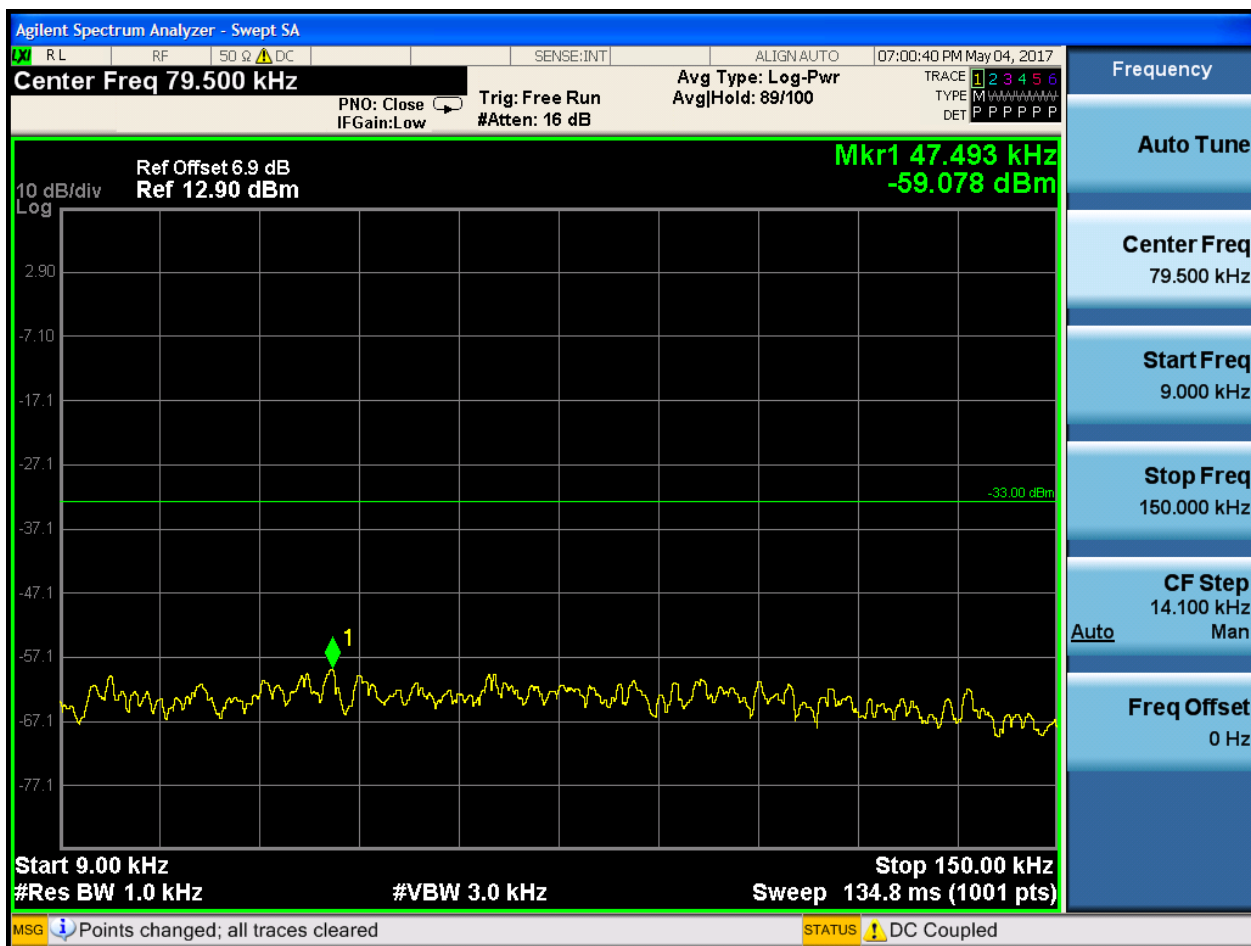


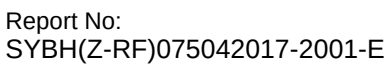
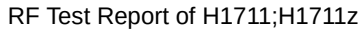


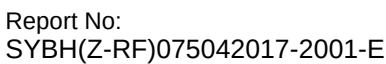
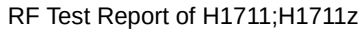


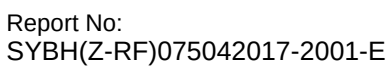
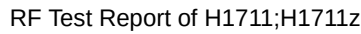
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



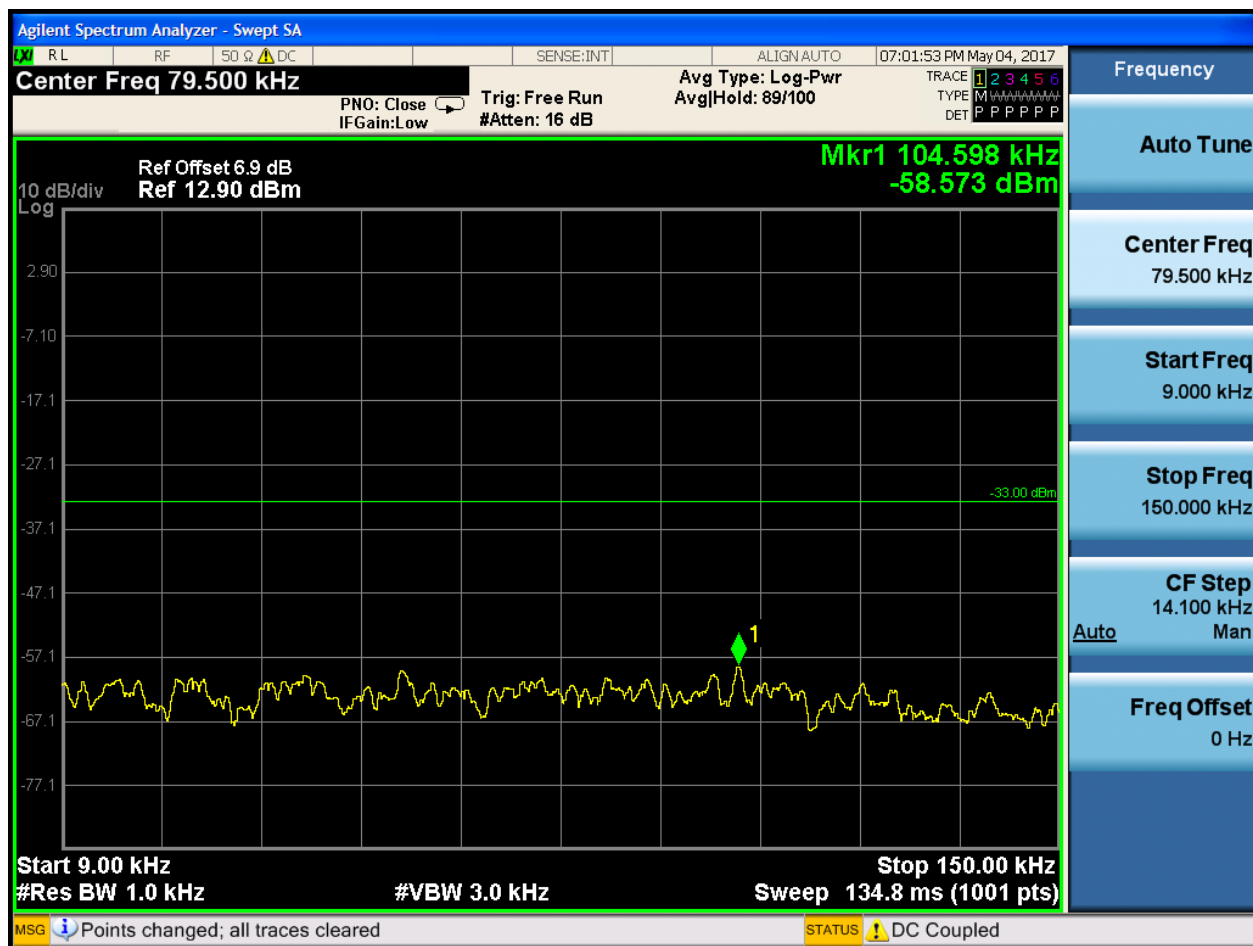


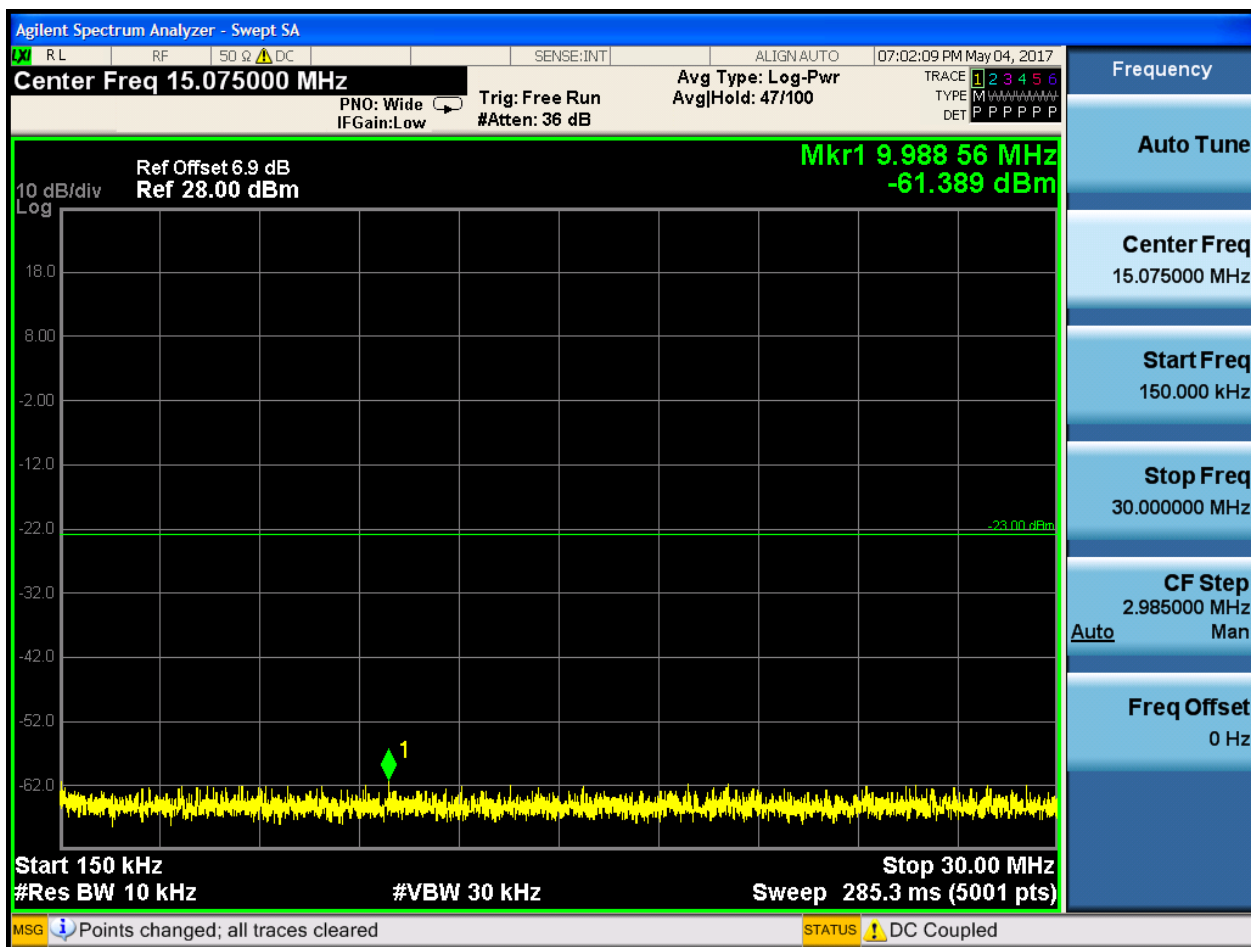


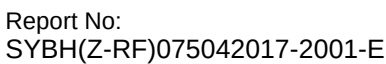
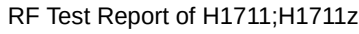


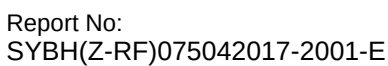
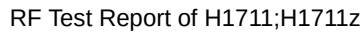
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





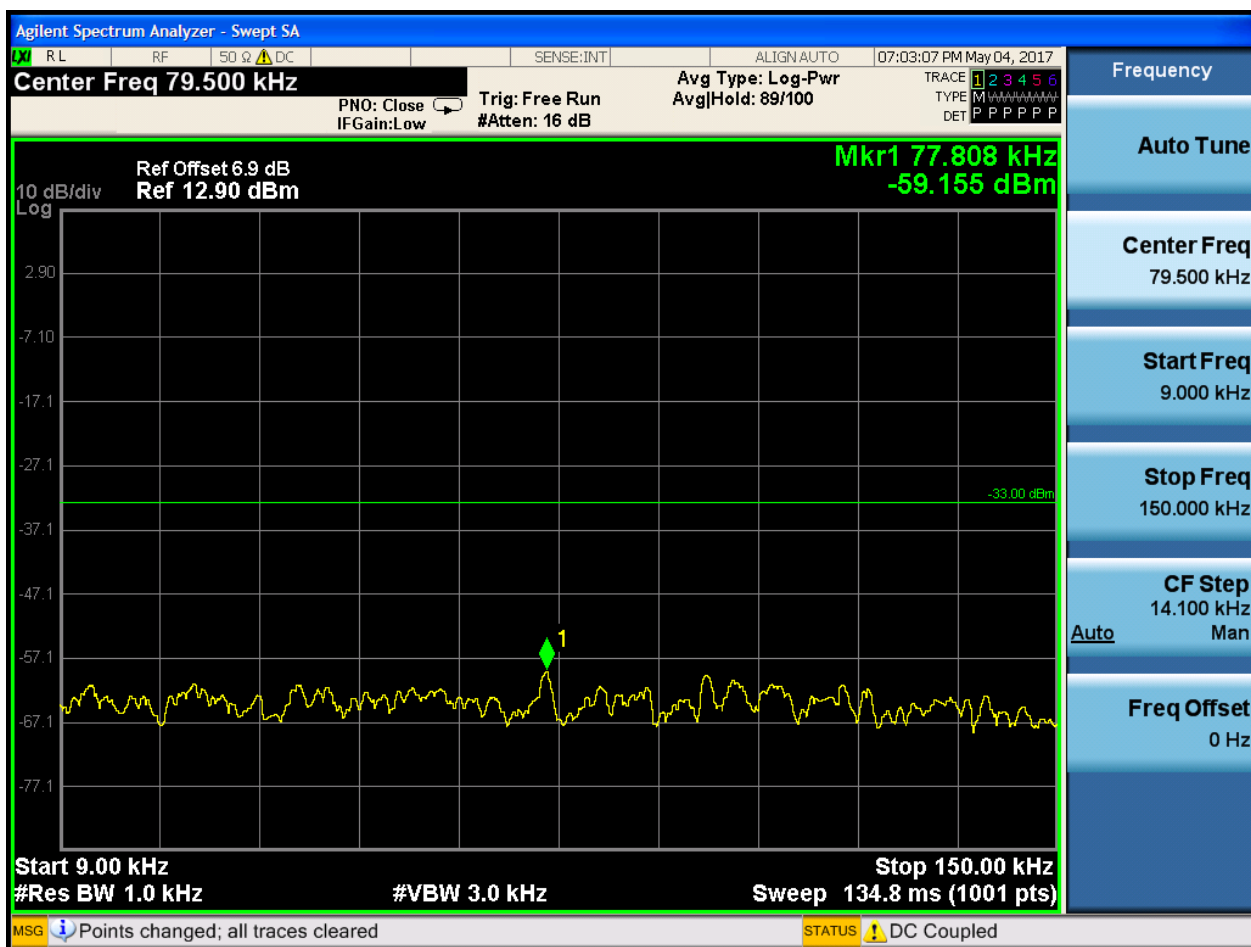


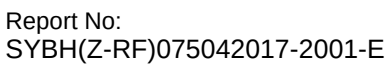
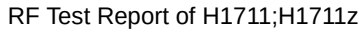


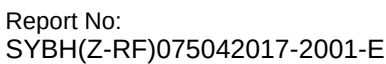
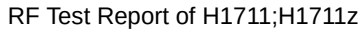
6.1.1.2.2 Test Bandwidth = 3

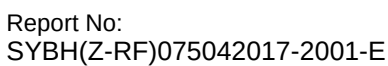
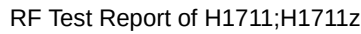
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



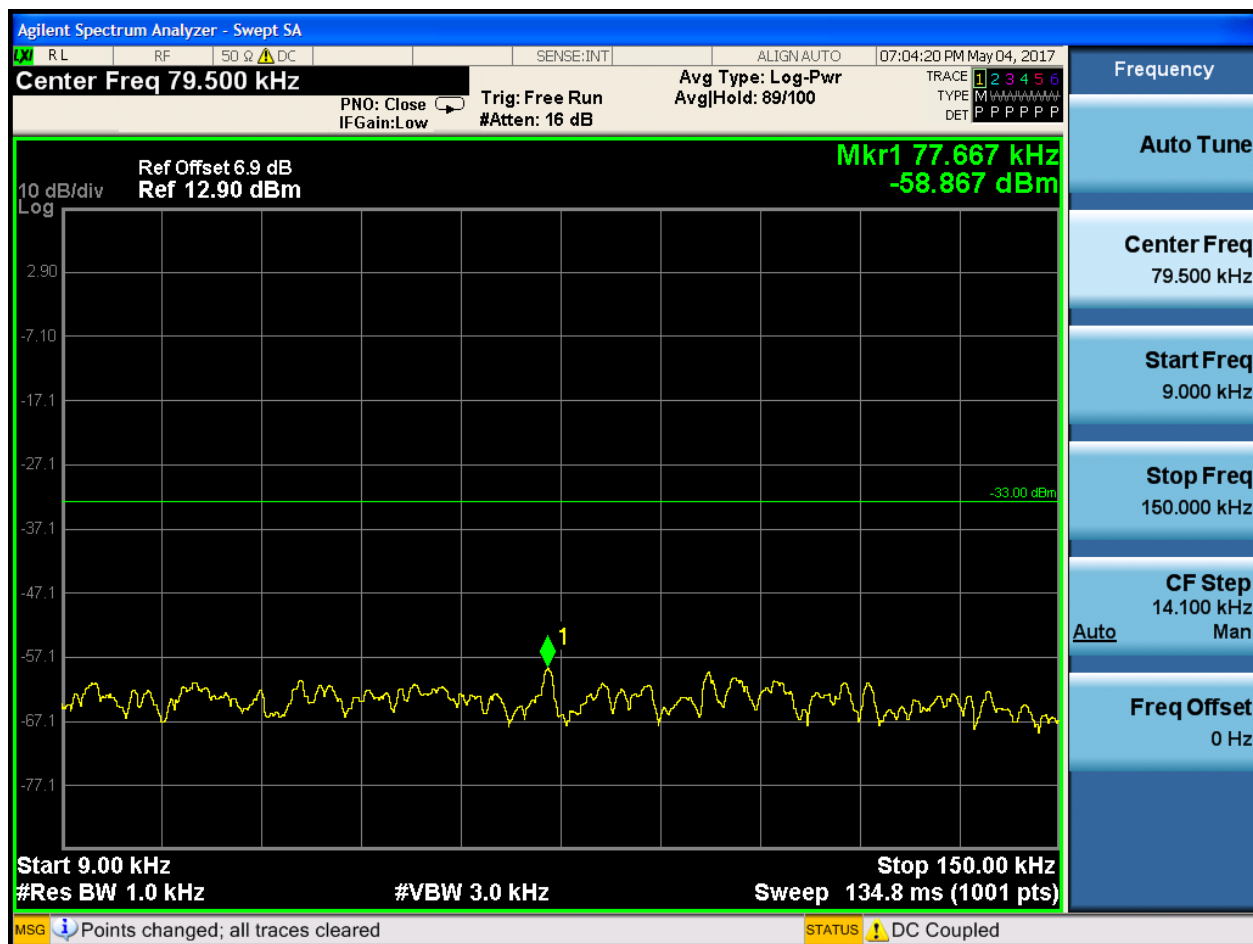


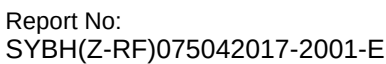
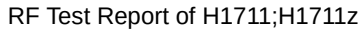


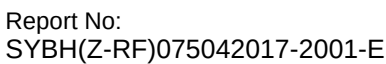
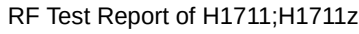


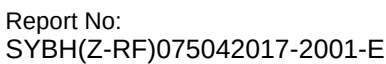
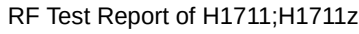
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





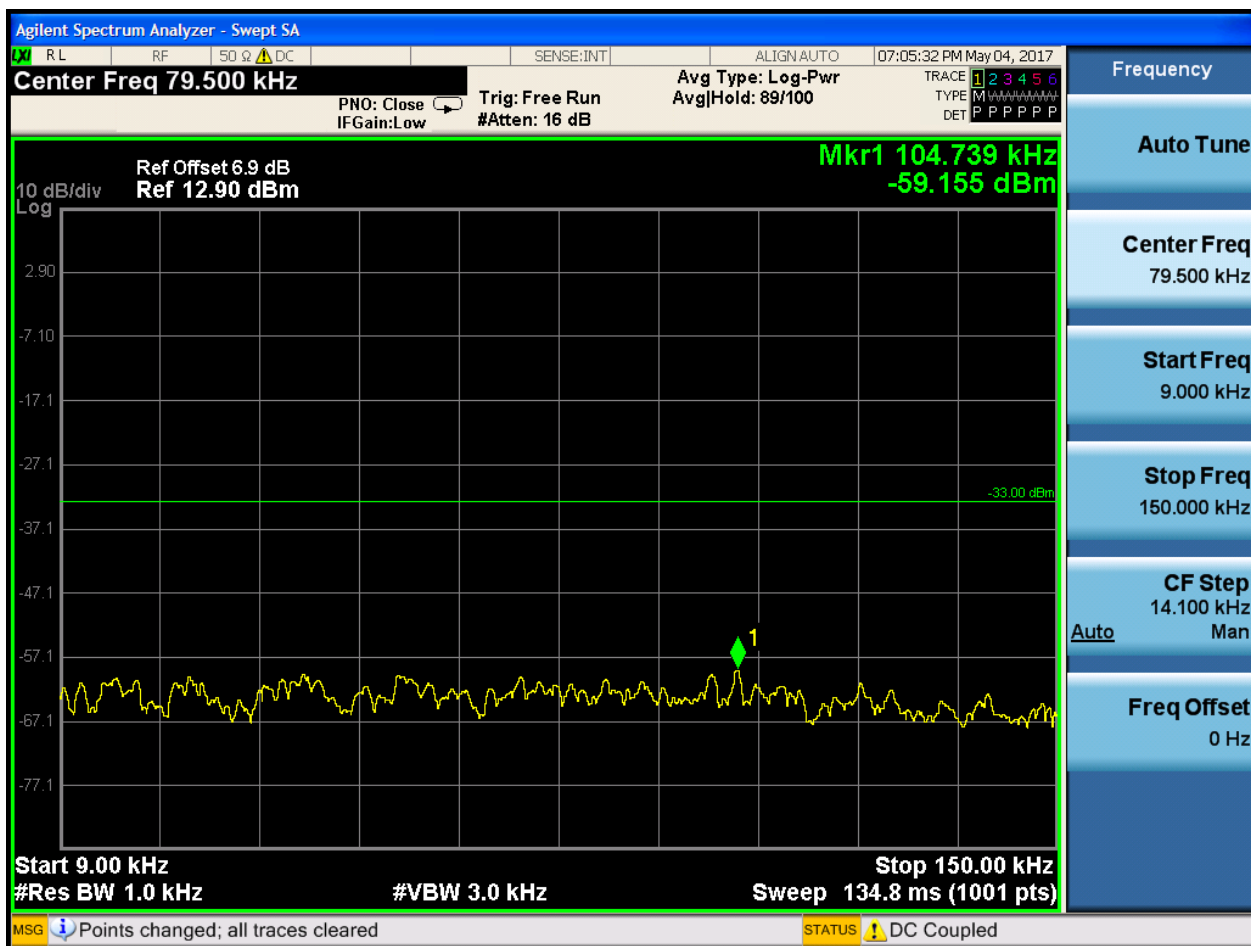


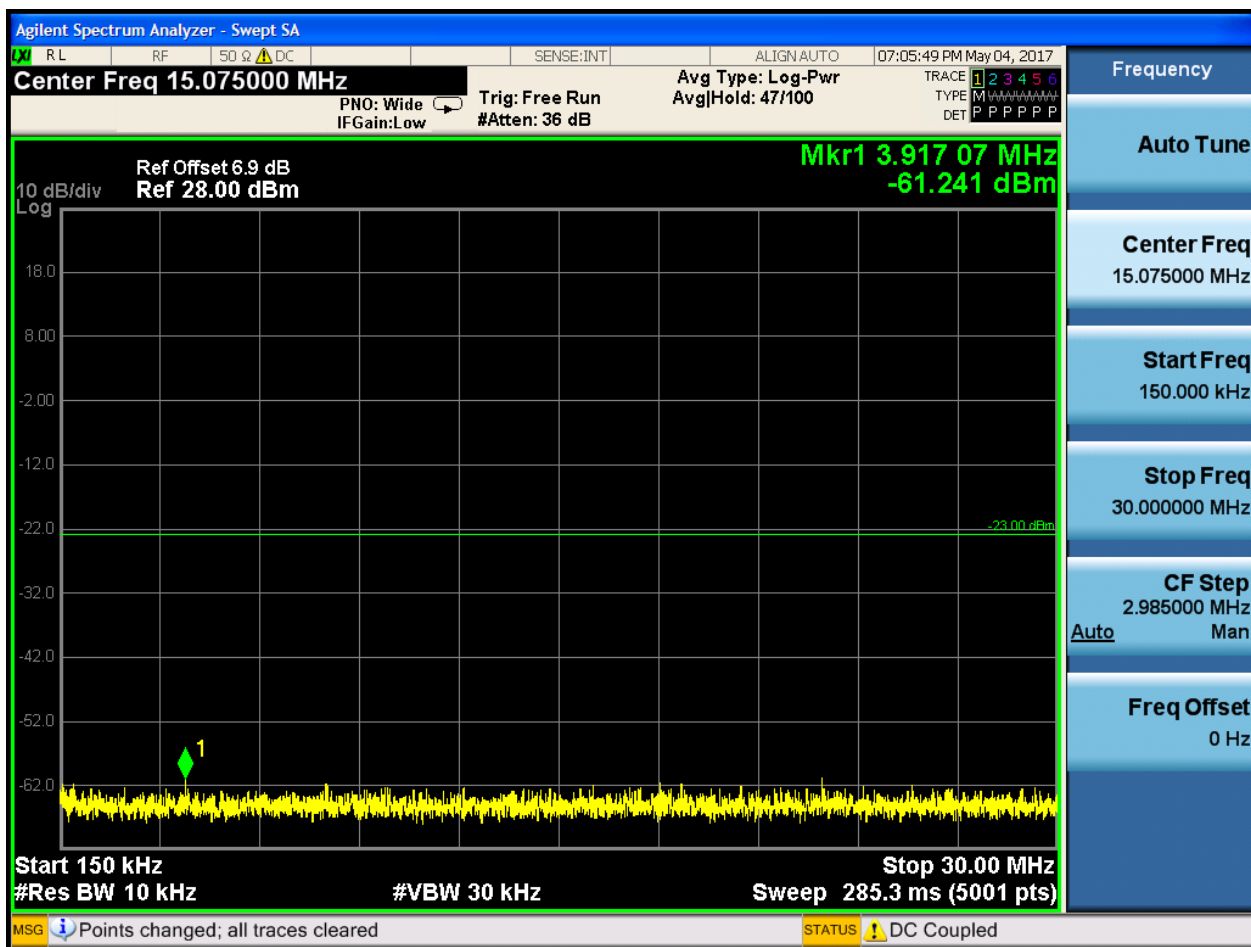


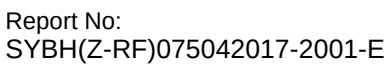
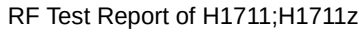


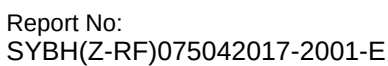
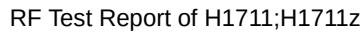
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







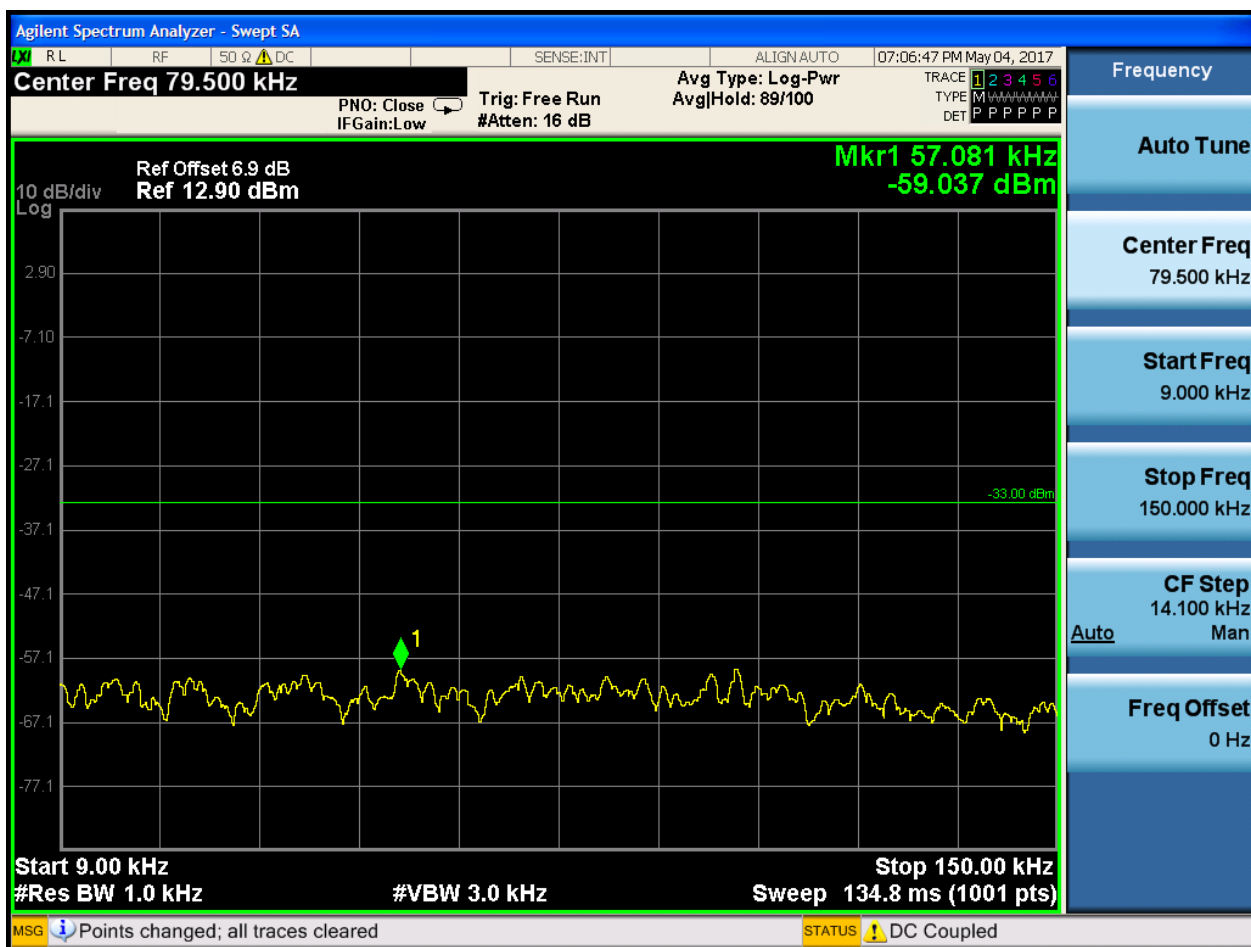


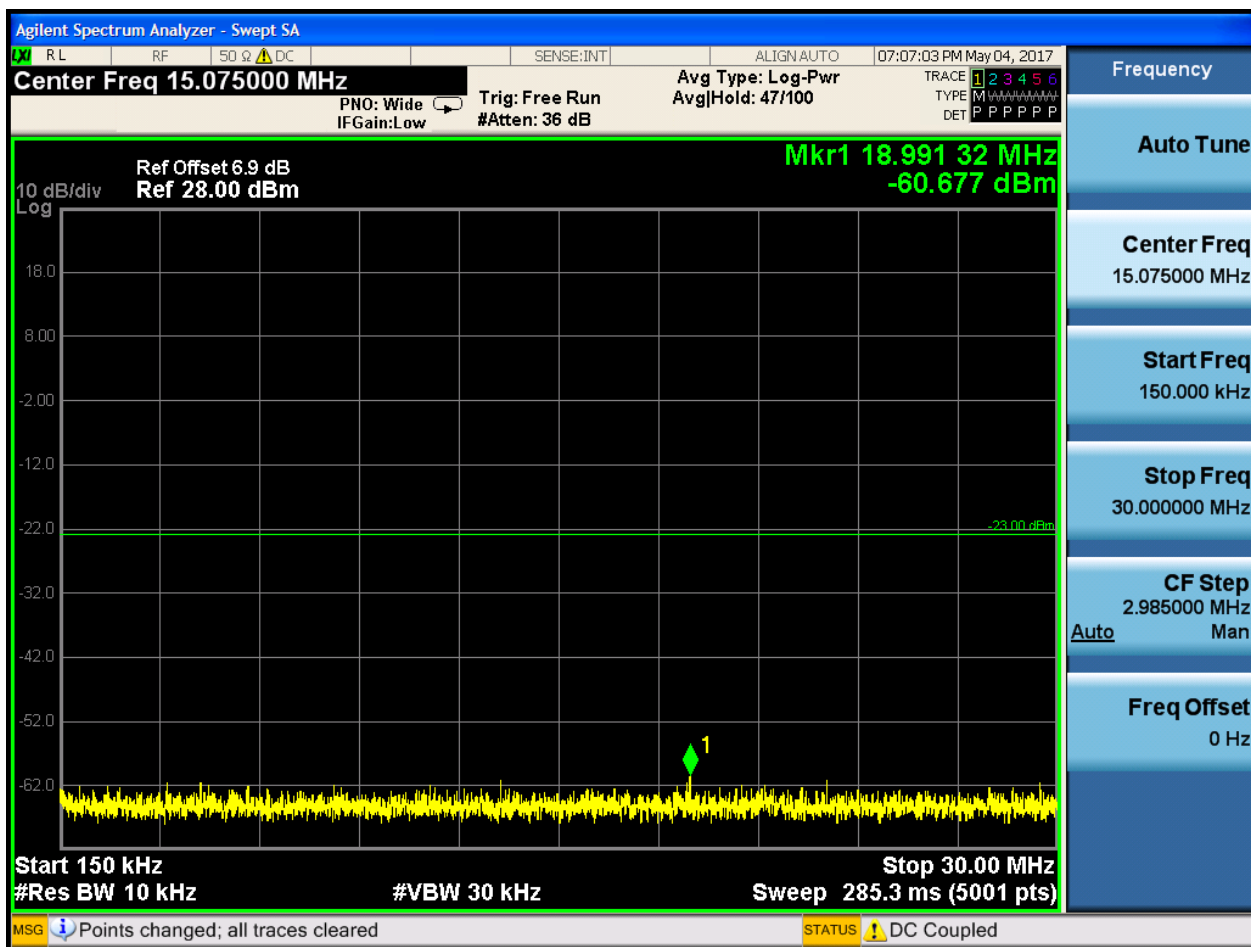


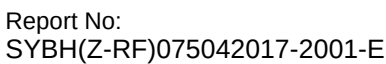
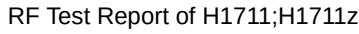
6.1.1.2.3 Test Bandwidth = 5

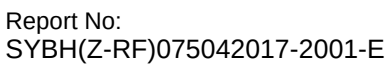
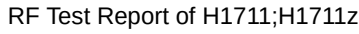
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





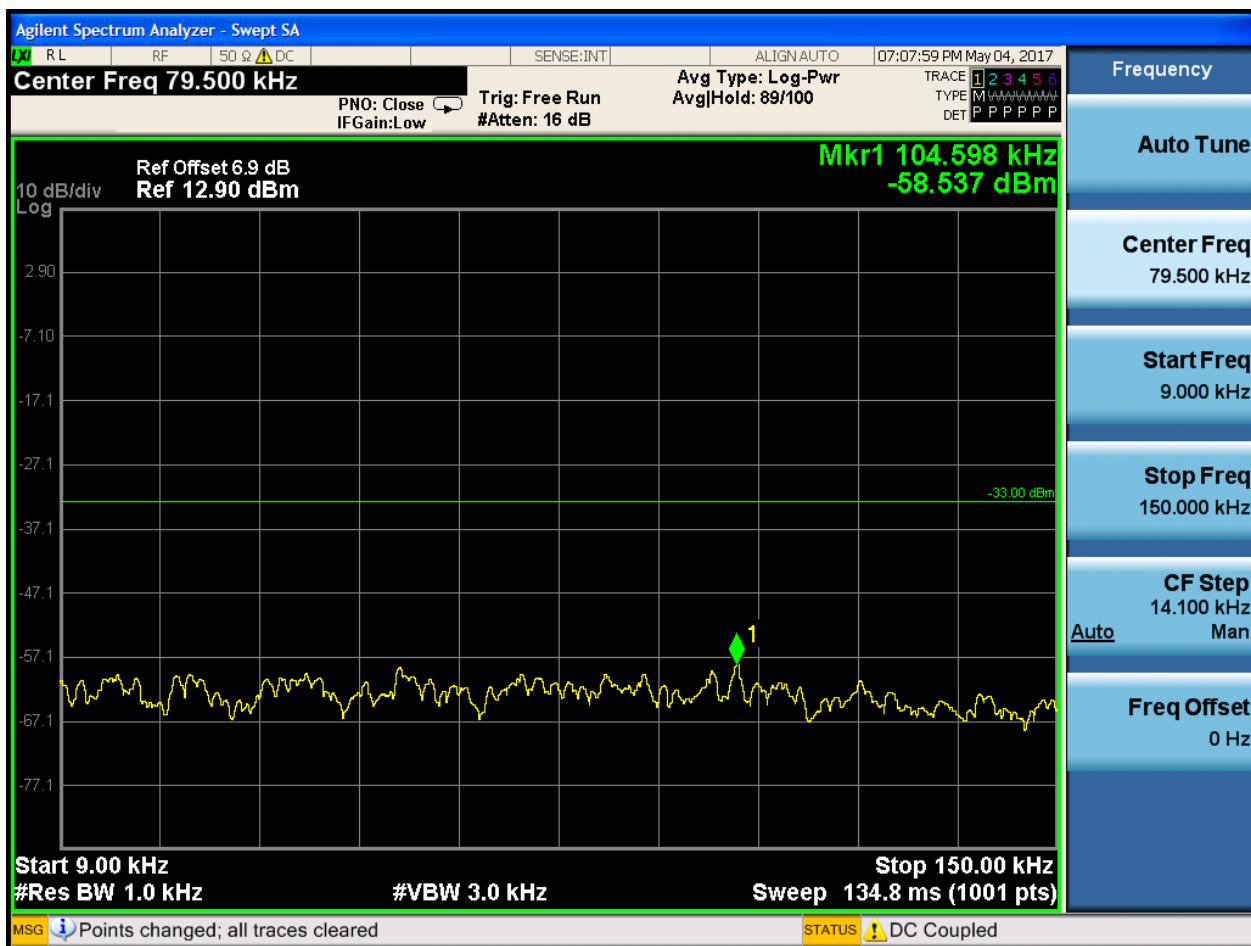


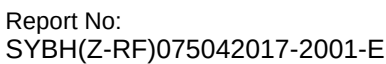
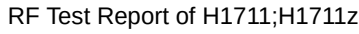


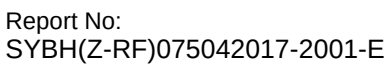
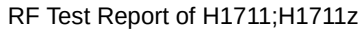


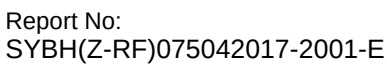
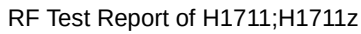
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





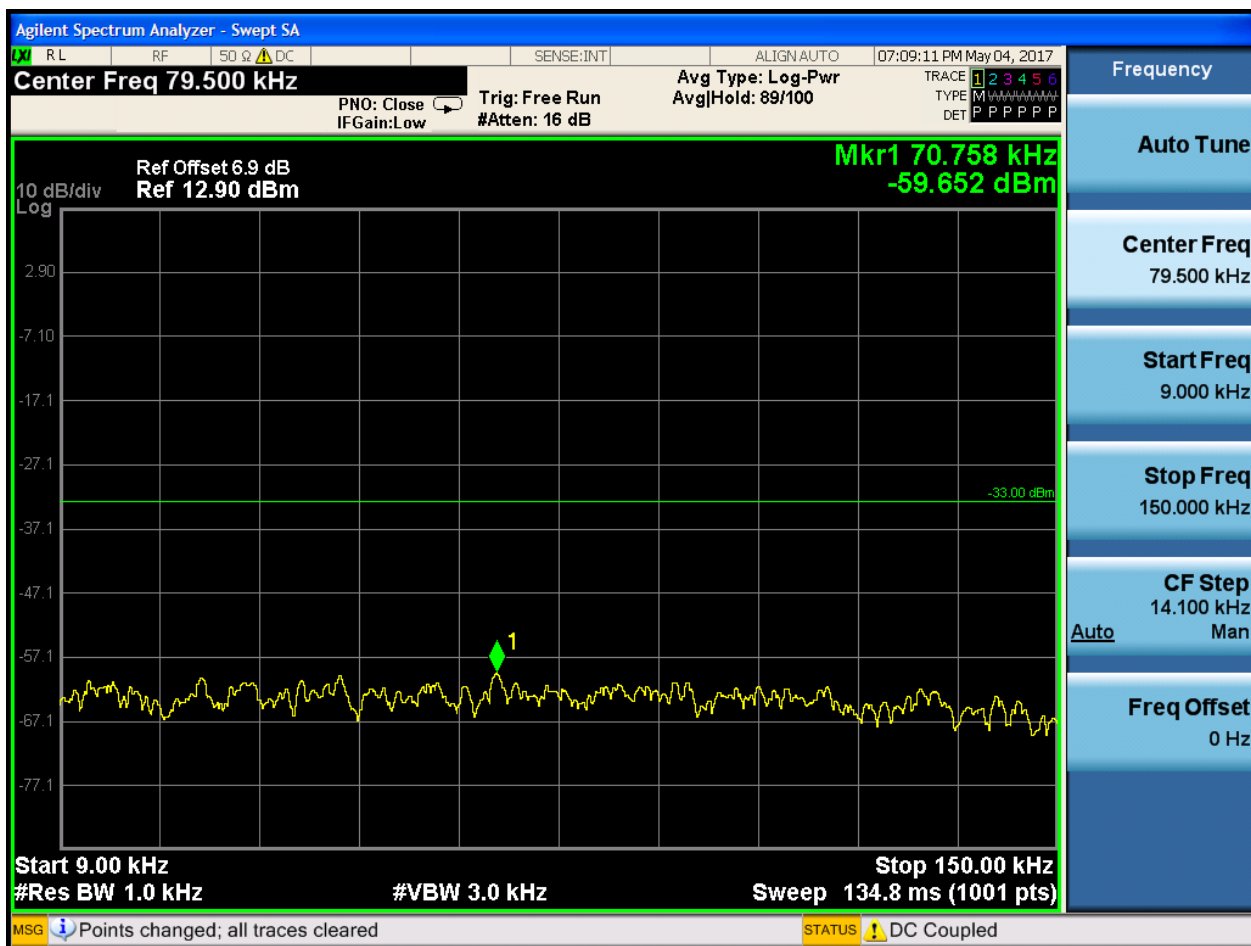


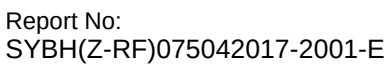
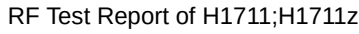


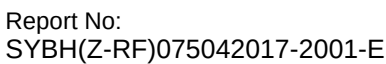
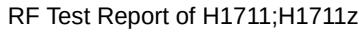


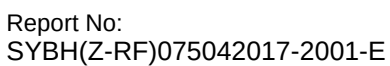
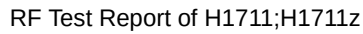
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







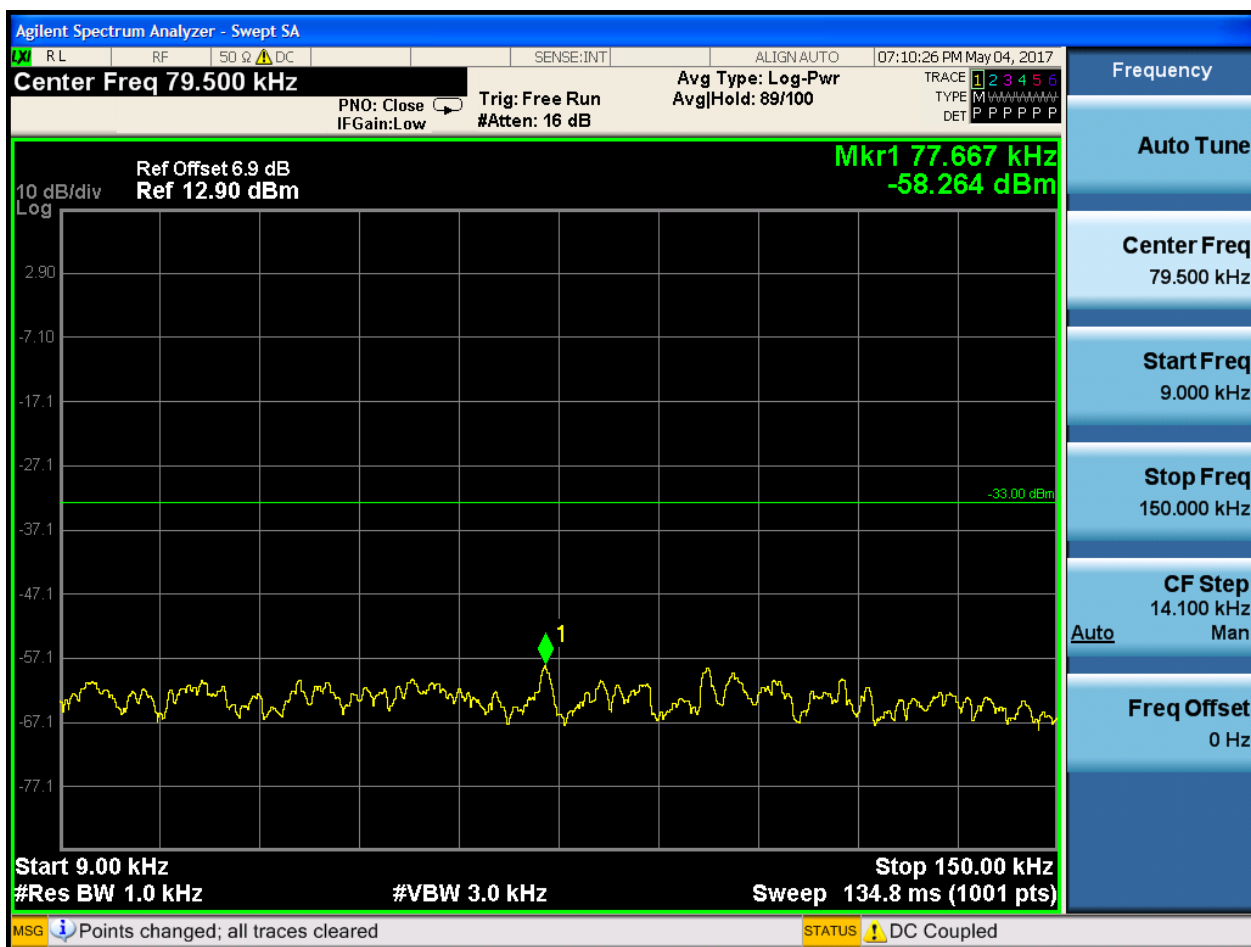


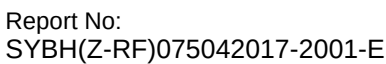
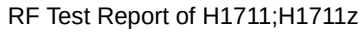


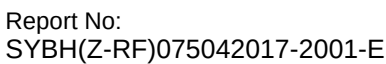
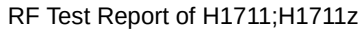
6.1.1.2.4 Test Bandwidth = 10

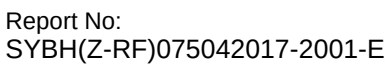
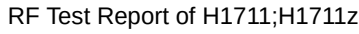
6.1.1.2.4.1 Test Channel = LCH

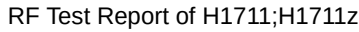
6.1.1.2.4.1.1 Test RB = RB1#0

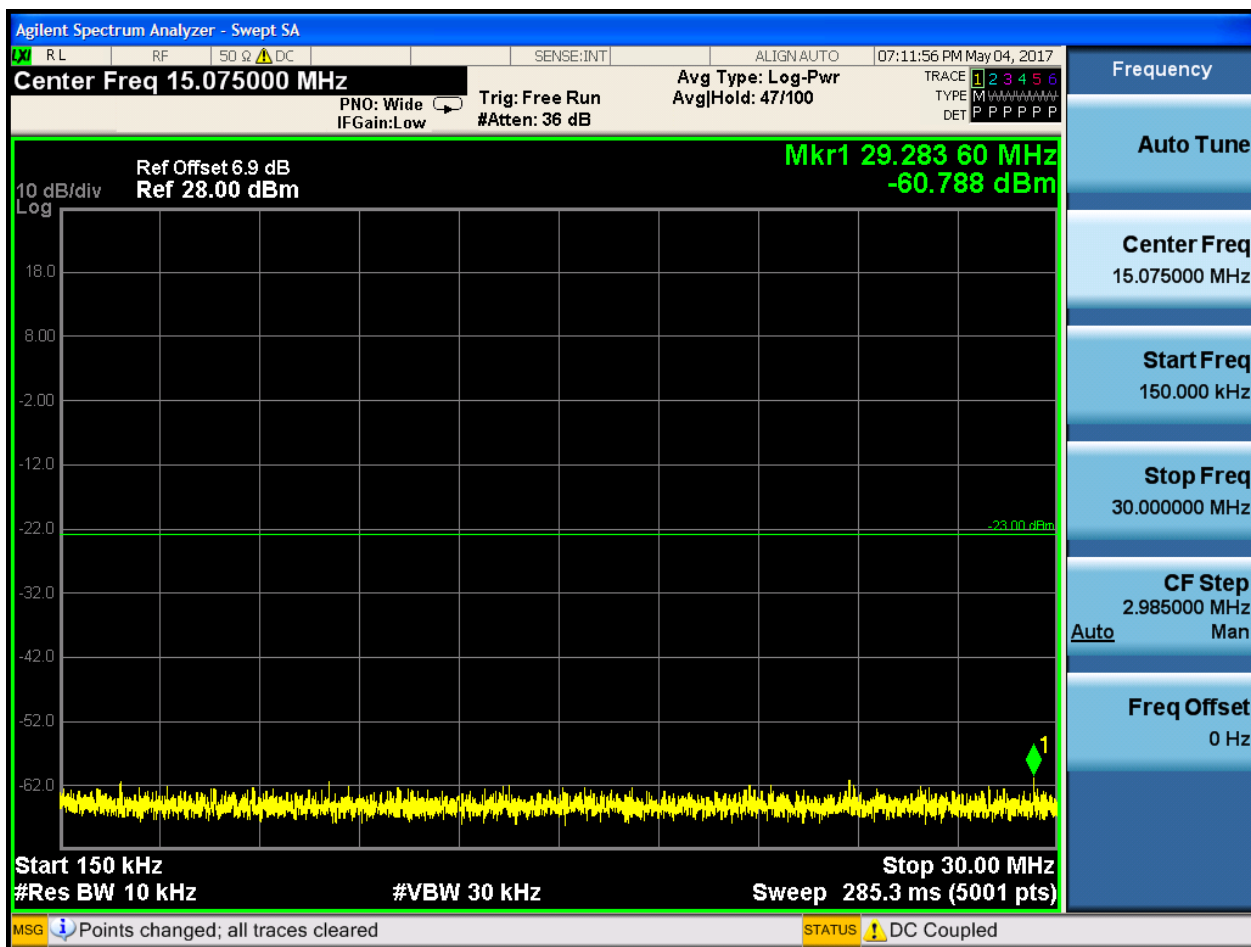


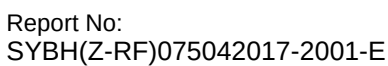
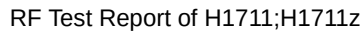


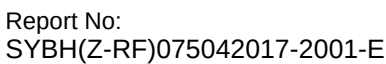
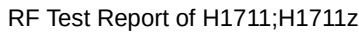








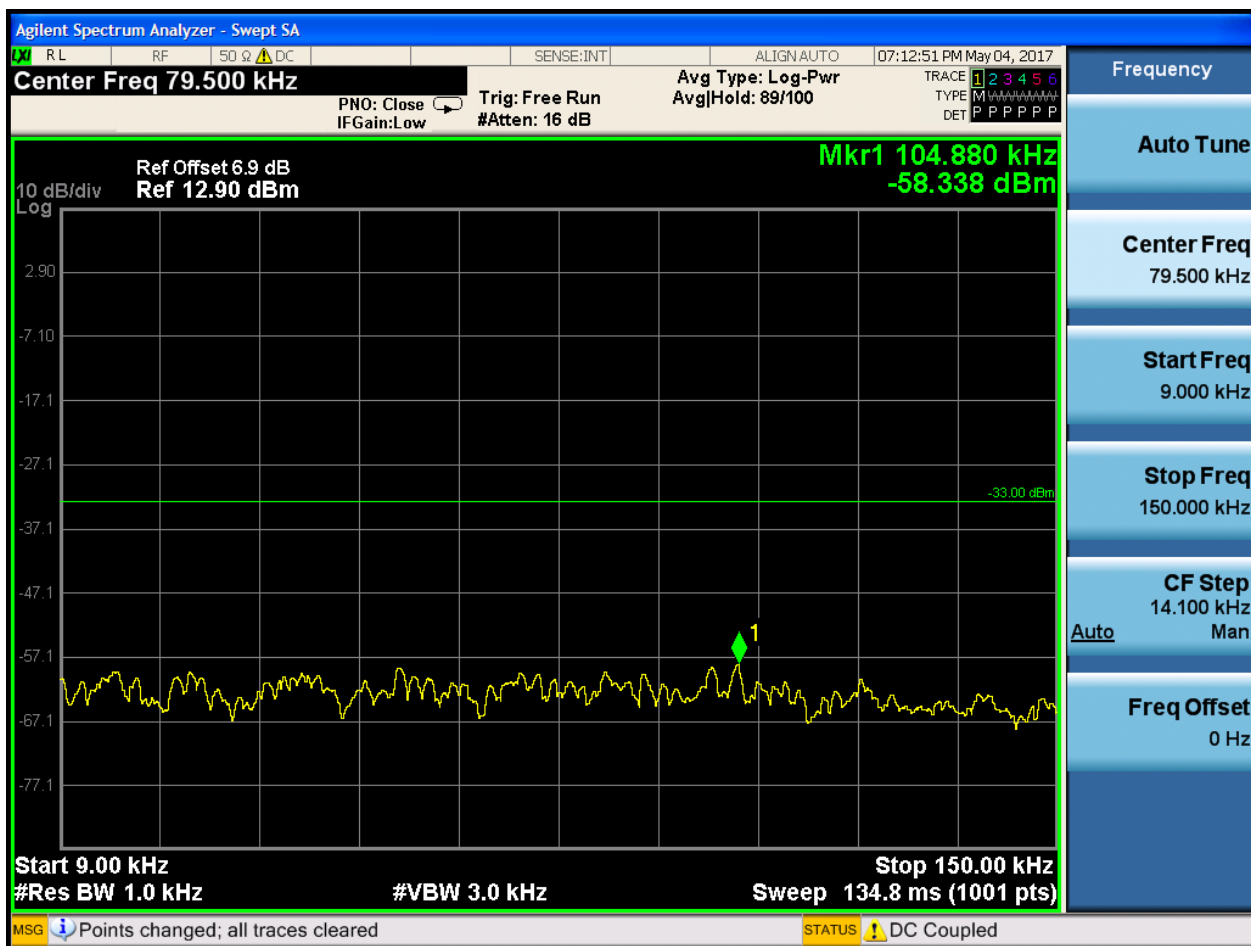


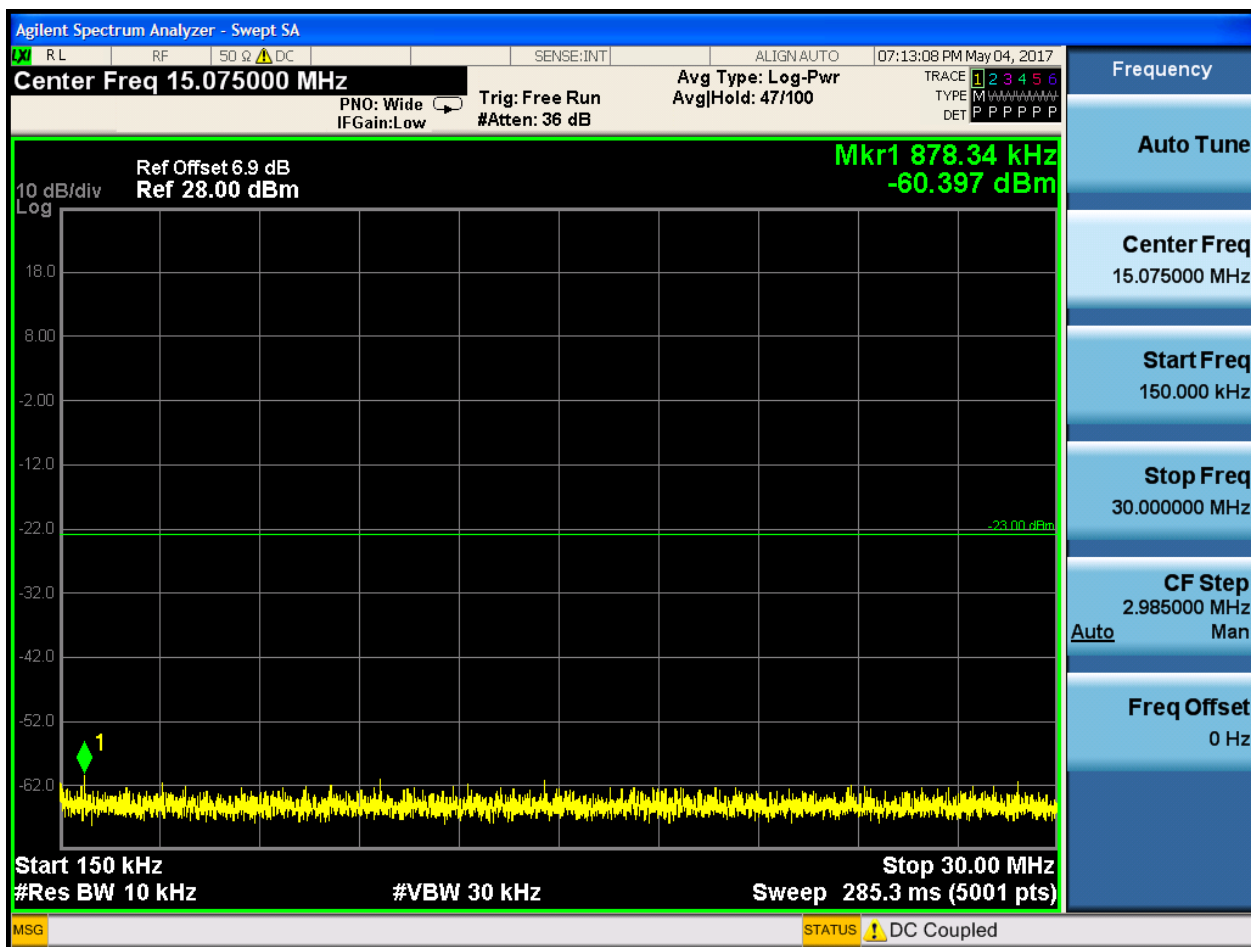


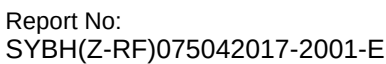
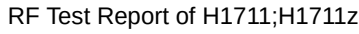


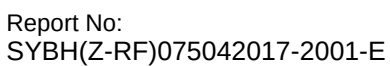
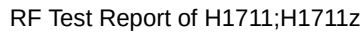
6.1.1.2.4.3 Test Channel = HCH

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

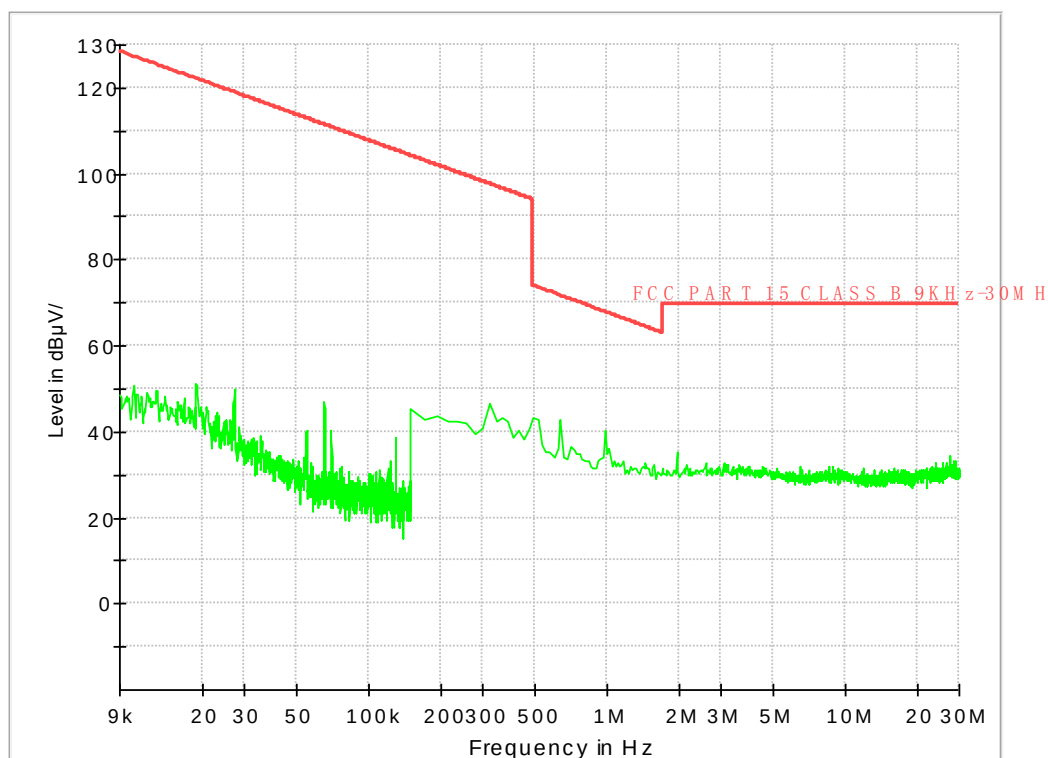
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

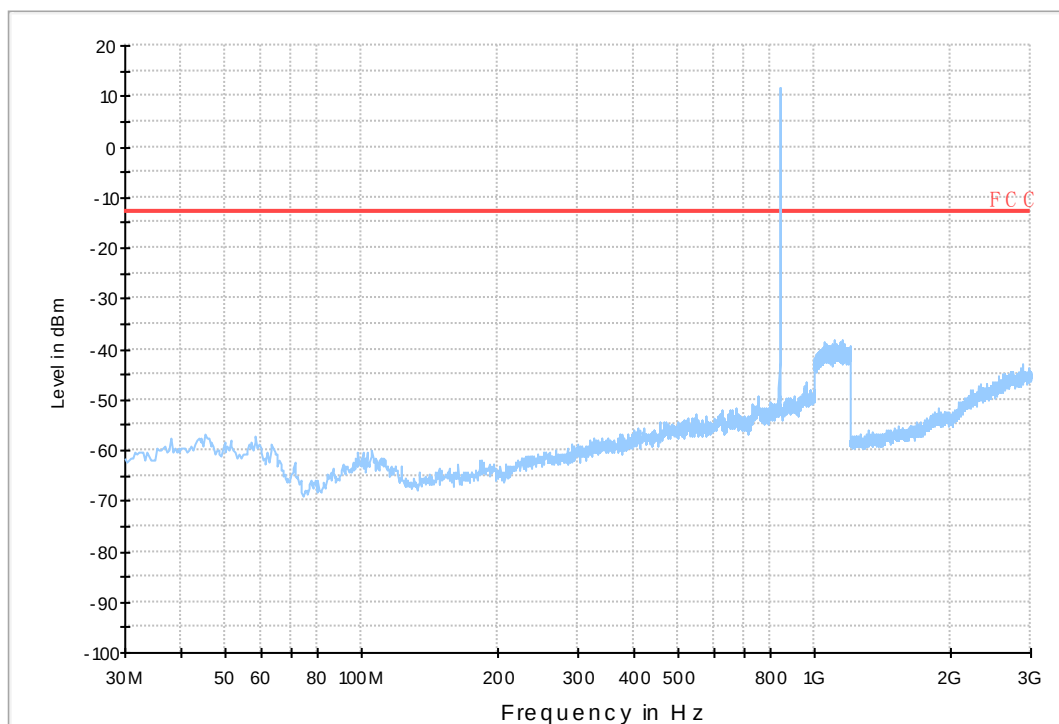
7.1 For LTE

7.1.1 Test Band = BAND5_Ant1

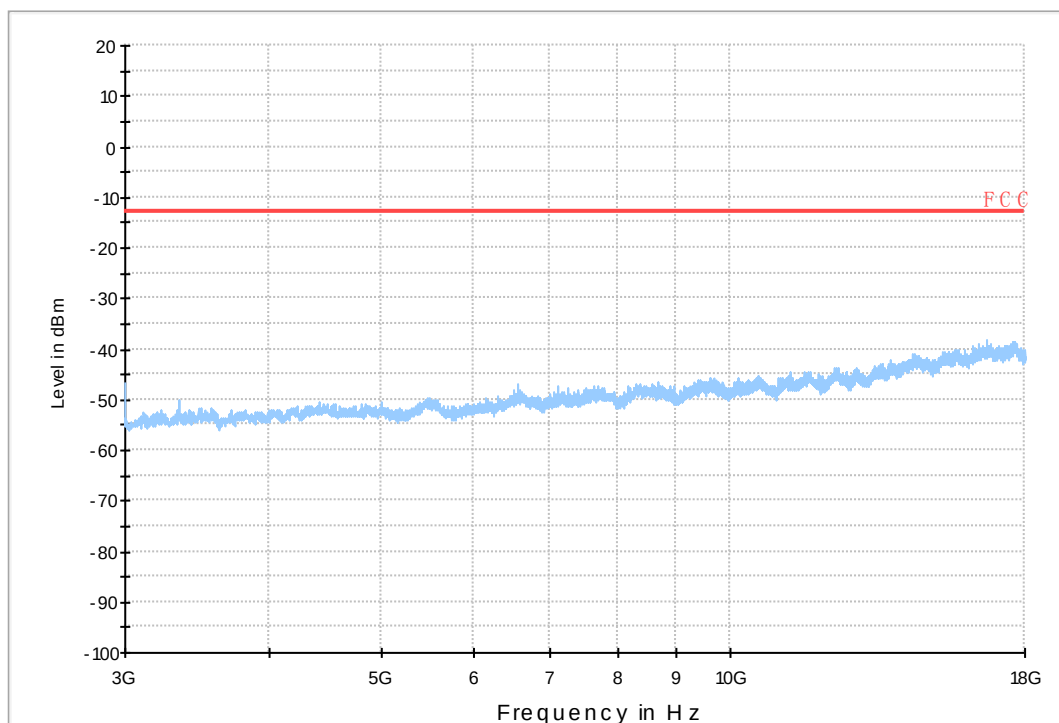
7.1.1.1 Test Bandwidth = 1.4



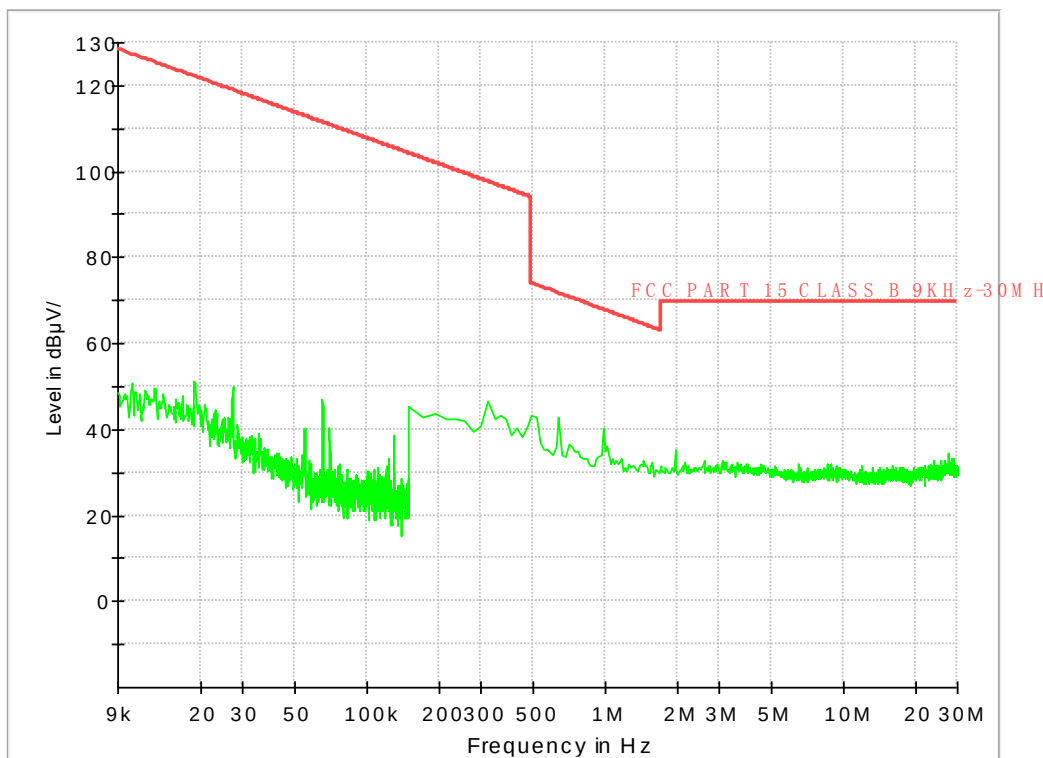
Copy of RSE-TX-DIRECTOR BELOW 1G_L



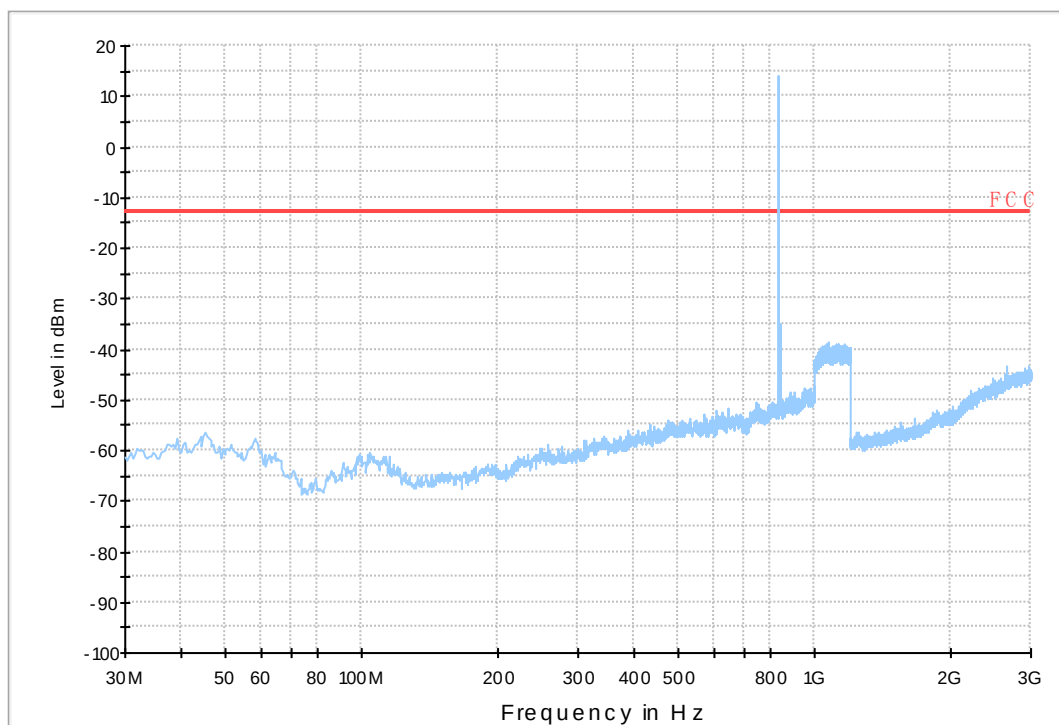
Copy of RSE-TX-DIRECTOR BELOW 1G_H



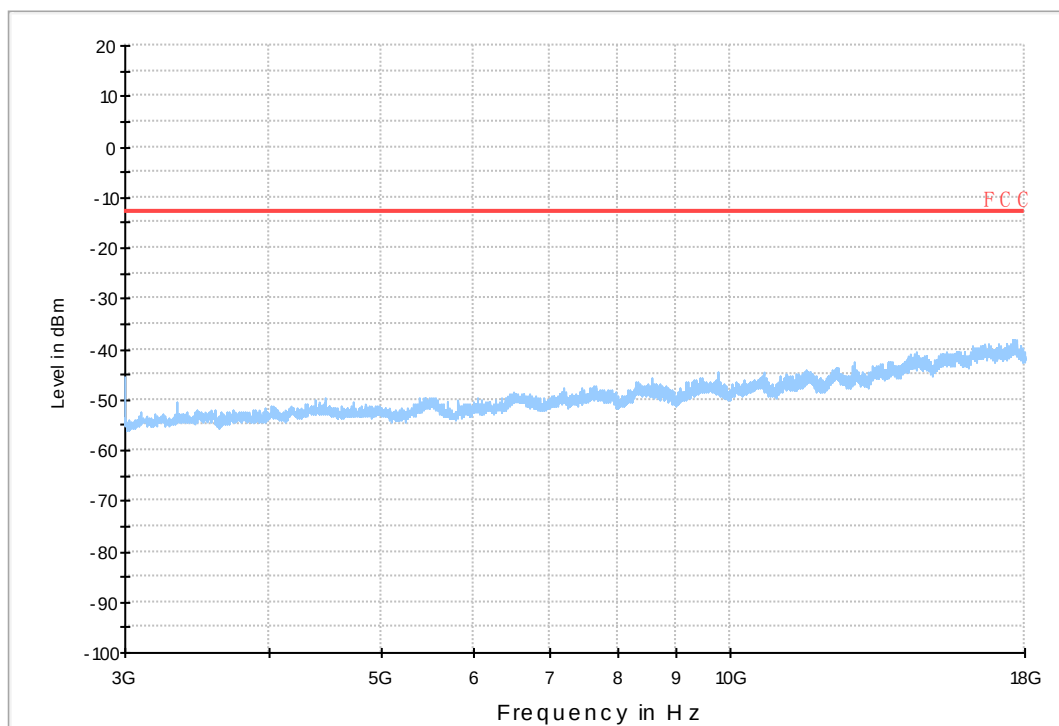
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-1.96	-0.00238	PASS
					VN	0.07	0.00008	PASS
					VH	-1.49	-0.00181	PASS
			MCH	TN	VL	1.44	0.00172	PASS
					VN	-0.14	-0.00017	PASS
					VH	-0.36	-0.00043	PASS
			HCH	TN	VL	-1.04	-0.00123	PASS
					VN	-0.03	-0.00004	PASS
					VH	0.24	0.00028	PASS
		3	LCH	TN	VL	0.60	0.00073	PASS
					VN	1.66	0.00201	PASS
					VH	-3.69	-0.00447	PASS
			MCH	TN	VL	-0.77	-0.00092	PASS
					VN	-0.30	-0.00036	PASS
					VH	0.57	0.00068	PASS
			HCH	TN	VL	-1.42	-0.00168	PASS
					VN	-0.70	-0.00083	PASS
					VH	-0.70	-0.00083	PASS
		5	LCH	TN	VL	-1.95	-0.00236	PASS
					VN	0.20	0.00024	PASS
					VH	-0.66	-0.0008	PASS
			MCH	TN	VL	-0.26	-0.00031	PASS
					VN	-0.69	-0.00082	PASS
					VH	-0.36	-0.00043	PASS
			HCH	TN	VL	-6.37	-0.00753	PASS
					VN	9.28	0.01096	PASS
					VH	0.26	0.00031	PASS
		10	LCH	TN	VL	-0.30	-0.00036	PASS
					VN	-0.86	-0.00104	PASS
					VH	-0.64	-0.00077	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VL	0.46	0.00055	PASS
					VN	-0.90	-0.00108	PASS
					VH	0.06	0.00007	PASS
			HCH	TN	VL	0.06	0.00007	PASS
					VN	0.77	0.00091	PASS
					VH	0.72	0.00085	PASS
		1.4	LCH	TN	VL	-1.80	-0.00218	PASS
					VN	-2.72	-0.0033	PASS
					VH	-3.59	-0.00435	PASS
			MCH	TN	VL	-0.96	-0.00115	PASS
					VN	-1.23	-0.00147	PASS
					VH	-0.87	-0.00104	PASS
			HCH	TN	VL	-2.20	-0.00259	PASS
					VN	-0.54	-0.00064	PASS
					VH	-0.19	-0.00022	PASS
		3	LCH	TN	VL	1.53	0.00185	PASS
					VN	-4.02	-0.00487	PASS
					VH	1.72	0.00208	PASS
			MCH	TN	VL	-0.36	-0.00043	PASS
					VN	-0.37	-0.00044	PASS
					VH	-0.97	-0.00116	PASS
			HCH	TN	VL	-2.27	-0.00268	PASS
					VN	-1.44	-0.0017	PASS
					VH	-0.33	-0.00039	PASS
		5	LCH	TN	VL	-1.12	-0.00136	PASS
					VN	-2.90	-0.00351	PASS
					VH	-2.73	-0.0033	PASS
			MCH	TN	VL	-1.22	-0.00146	PASS
					VN	-1.03	-0.00123	PASS
					VH	-0.27	-0.00032	PASS
			HCH	TN	VL	-1.26	-0.00149	PASS
					VN	-1.03	-0.00122	PASS
					VH	0.46	0.00054	PASS
		10	LCH	TN	VL	-0.86	-0.00104	PASS
					VN	-0.56	-0.00068	PASS
					VH	-0.72	-0.00087	PASS
			MCH	TN	VL	0.21	0.00025	PASS
					VN	-0.24	-0.00029	PASS
					VH	-0.59	-0.00071	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	-1.36	-0.00161	PASS
					VN	0.73	0.00086	PASS
					VH	-1.43	-0.00169	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
BAND5	LTE/TM1	1.4	LCH	VN	-30	0.72	0.00087	PASS
					-20	-2.10	-0.00255	PASS
					-10	-0.92	-0.00112	PASS
					0	-1.22	-0.00148	PASS
					10	-1.36	-0.00165	PASS
					20	-4.25	-0.00515	PASS
					30	-1.47	-0.00178	PASS
					40	3.03	0.00367	PASS
					50	3.36	0.00407	PASS
			MCH	VN	-30	0.94	0.00112	PASS
					-20	-1.65	-0.00197	PASS
					-10	0.03	0.00004	PASS
					0	-0.89	-0.00106	PASS
					10	0.20	0.00024	PASS
					20	-2.26	-0.0027	PASS
					30	1.82	0.00218	PASS
					40	0.37	0.00044	PASS
					50	-0.33	-0.00039	PASS
			HCH	VN	-30	3.85	0.00454	PASS
					-20	2.75	0.00324	PASS
					-10	-1.46	-0.00172	PASS
					0	1.43	0.00169	PASS
					10	0.97	0.00114	PASS
					20	5.16	0.00608	PASS
					30	-1.80	-0.00212	PASS
					40	-3.73	-0.0044	PASS
					50	1.13	0.00133	PASS
		3	LCH	VN	-30	-1.33	-0.00161	PASS
					-20	-2.96	-0.00359	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	0.11	0.00013	PASS
					0	-1.53	-0.00185	PASS
					10	0.31	0.00038	PASS
					20	2.57	0.00311	PASS
					30	0.43	0.00052	PASS
					40	0.09	0.00011	PASS
					50	1.70	0.00206	PASS
			MCH	VN	-30	0.14	0.00017	PASS
					-20	-0.67	-0.0008	PASS
					-10	-0.27	-0.00032	PASS
					0	0.29	0.00035	PASS
					10	-0.43	-0.00051	PASS
					20	0.29	0.00035	PASS
					30	-1.02	-0.00122	PASS
					40	-1.19	-0.00142	PASS
					50	-1.19	-0.00142	PASS
			HCH	VN	-30	-3.46	-0.00408	PASS
					-20	9.36	0.01104	PASS
					-10	2.49	0.00294	PASS
					0	-0.26	-0.00031	PASS
					10	-2.92	-0.00345	PASS
					20	-4.72	-0.00557	PASS
					30	6.32	0.00746	PASS
					40	0.03	0.00004	PASS
					50	-9.24	-0.0109	PASS
		5	LCH	VN	-30	-1.16	-0.0014	PASS
					-20	-1.40	-0.00169	PASS
					-10	-1.07	-0.00129	PASS
					0	-3.10	-0.00375	PASS
					10	-0.51	-0.00062	PASS
					20	-2.47	-0.00299	PASS
					30	-0.80	-0.00097	PASS
					40	-0.77	-0.00093	PASS
					50	-1.85	-0.00224	PASS
			MCH	VN	-30	-1.13	-0.00135	PASS
					-20	-0.17	-0.0002	PASS
					-10	-1.49	-0.00178	PASS
					0	-0.74	-0.00088	PASS
					10	-0.04	-0.00005	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-1.80	-0.00215	PASS
					30	-0.56	-0.00067	PASS
					40	-0.64	-0.00077	PASS
					50	-0.19	-0.00023	PASS
			HCH	VN	-30	-3.53	-0.00417	PASS
					-20	-1.03	-0.00122	PASS
					-10	-0.09	-0.00011	PASS
					0	0.47	0.00056	PASS
					10	-1.16	-0.00137	PASS
					20	0.01	0.00001	PASS
					30	-7.07	-0.00835	PASS
					40	-11.44	-0.01351	PASS
					50	-8.27	-0.00977	PASS
		10	LCH	VN	-30	-0.64	-0.00077	PASS
					-20	-0.27	-0.00033	PASS
					-10	-0.40	-0.00048	PASS
					0	-0.36	-0.00043	PASS
					10	-1.30	-0.00157	PASS
					20	-0.27	-0.00033	PASS
					30	-0.29	-0.00035	PASS
					40	-0.63	-0.00076	PASS
					50	0.03	0.00004	PASS
			MCH	VN	-30	0.10	0.00012	PASS
					-20	-0.90	-0.00108	PASS
					-10	0.04	0.00005	PASS
					0	-1.27	-0.00152	PASS
					10	-1.29	-0.00154	PASS
					20	-1.22	-0.00146	PASS
					30	-0.93	-0.00111	PASS
					40	-1.22	-0.00146	PASS
					50	-0.99	-0.00118	PASS
			HCH	VN	-30	-0.41	-0.00049	PASS
					-20	-0.33	-0.00039	PASS
					-10	0.62	0.00073	PASS
					0	0.14	0.00017	PASS
					10	-0.67	-0.00079	PASS
					20	-0.37	-0.00044	PASS
					30	0.29	0.00034	PASS
					40	-0.79	-0.00094	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	50	-0.46	-0.00055	PASS
					-30	-3.33	-0.00404	PASS
					-20	-2.29	-0.00278	PASS
					-10	-3.08	-0.00373	PASS
					0	-1.93	-0.00234	PASS
					10	-0.64	-0.00078	PASS
					20	-0.60	-0.00073	PASS
					30	-2.82	-0.00342	PASS
					40	-2.92	-0.00354	PASS
					50	-3.95	-0.00479	PASS
			MCH	VN	-30	-1.53	-0.00183	PASS
					-20	-1.02	-0.00122	PASS
					-10	0.73	0.00087	PASS
					0	-1.70	-0.00203	PASS
					10	-1.30	-0.00155	PASS
					20	-0.56	-0.00067	PASS
					30	-2.06	-0.00246	PASS
					40	-0.07	-0.00008	PASS
					50	-1.52	-0.00182	PASS
			HCH	VN	-30	-0.70	-0.00083	PASS
					-20	0.72	0.00085	PASS
					-10	0.54	0.00064	PASS
					0	-0.09	-0.00011	PASS
					10	-1.75	-0.00206	PASS
					20	-1.95	-0.0023	PASS
					30	-0.17	-0.0002	PASS
					40	-1.19	-0.0014	PASS
					50	-1.83	-0.00216	PASS
		3	LCH	VN	-30	2.19	0.00265	PASS
					-20	-2.16	-0.00262	PASS
					-10	0.29	0.00035	PASS
					0	-2.25	-0.00273	PASS
					10	1.46	0.00177	PASS
					20	1.57	0.0019	PASS
					30	-1.85	-0.00224	PASS
					40	0.20	0.00024	PASS
					50	-0.92	-0.00111	PASS
			MCH	VN	-30	-1.57	-0.00188	PASS
					-20	-1.37	-0.00164	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-0.62	-0.00074	PASS
					0	-0.39	-0.00047	PASS
					10	0.30	0.00036	PASS
					20	-0.16	-0.00019	PASS
					30	-0.56	-0.00067	PASS
					40	-1.00	-0.0012	PASS
					50	-0.23	-0.00027	PASS
			HCH	VN	-30	-2.75	-0.00324	PASS
					-20	-1.29	-0.00152	PASS
					-10	-2.45	-0.00289	PASS
					0	-1.03	-0.00122	PASS
					10	-1.59	-0.00188	PASS
					20	-2.56	-0.00302	PASS
					30	-1.90	-0.00224	PASS
					40	-1.03	-0.00122	PASS
					50	-0.11	-0.00013	PASS
		5	LCH	VN	-30	-0.59	-0.00071	PASS
					-20	-0.87	-0.00105	PASS
					-10	-2.20	-0.00266	PASS
					0	-1.57	-0.0019	PASS
					10	-2.50	-0.00302	PASS
					20	-2.79	-0.00338	PASS
					30	-0.73	-0.00088	PASS
					40	-1.72	-0.00208	PASS
					50	-2.33	-0.00282	PASS
			MCH	VN	-30	0.59	0.00071	PASS
					-20	-1.37	-0.00164	PASS
					-10	0.47	0.00056	PASS
					0	-0.34	-0.00041	PASS
					10	-0.80	-0.00096	PASS
					20	-2.36	-0.00282	PASS
					30	-1.27	-0.00152	PASS
					40	0.01	0.00001	PASS
					50	-0.74	-0.00088	PASS
			HCH	VN	-30	-0.57	-0.00067	PASS
					-20	-0.23	-0.00027	PASS
					-10	-1.16	-0.00137	PASS
					0	-0.44	-0.00052	PASS
					10	-0.33	-0.00039	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-0.76	-0.0009	PASS
					30	-0.49	-0.00058	PASS
					40	-1.20	-0.00142	PASS
					50	-0.79	-0.00093	PASS
		10	LCH	VN	-30	-1.47	-0.00177	PASS
					-20	-0.23	-0.00028	PASS
					-10	-1.49	-0.0018	PASS
					0	-1.40	-0.00169	PASS
					10	-1.24	-0.0015	PASS
					20	-0.21	-0.00025	PASS
					30	-0.94	-0.00113	PASS
					40	-1.17	-0.00141	PASS
					50	-0.93	-0.00112	PASS
			MCH	VN	-30	-0.41	-0.00049	PASS
					-20	-1.16	-0.00139	PASS
					-10	-1.23	-0.00147	PASS
					0	-1.14	-0.00136	PASS
					10	-0.74	-0.00088	PASS
					20	-1.46	-0.00175	PASS
					30	-0.27	-0.00032	PASS
					40	-0.24	-0.00029	PASS
					50	-0.36	-0.00043	PASS
			HCH	VN	-30	-0.49	-0.00058	PASS
					-20	-0.09	-0.00011	PASS
					-10	-0.34	-0.0004	PASS
					0	-1.23	-0.00146	PASS
					10	-0.46	-0.00055	PASS
					20	-1.14	-0.00135	PASS
					30	-1.56	-0.00185	PASS
					40	-2.13	-0.00252	PASS
					50	-1.62	-0.00192	PASS

END