



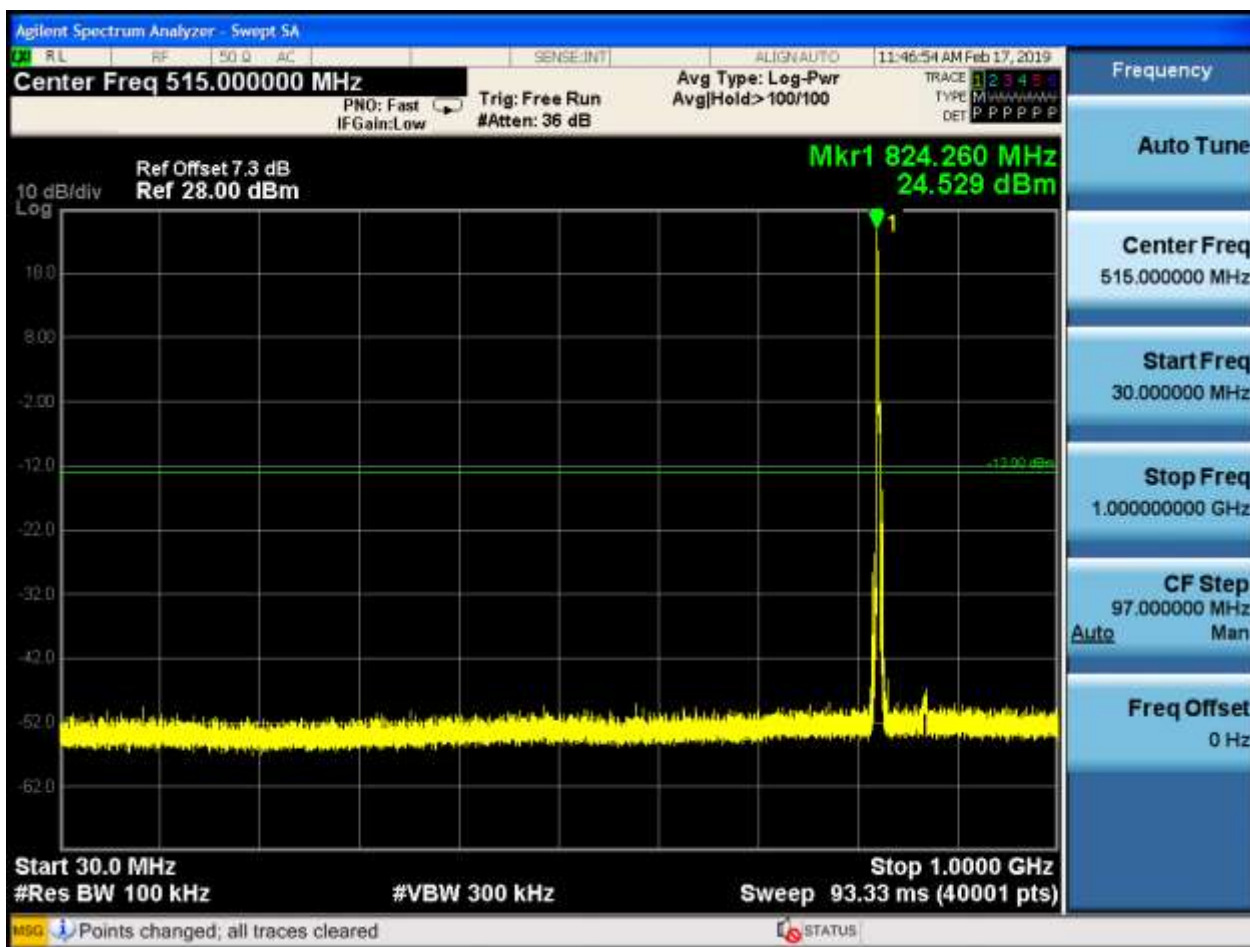
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0







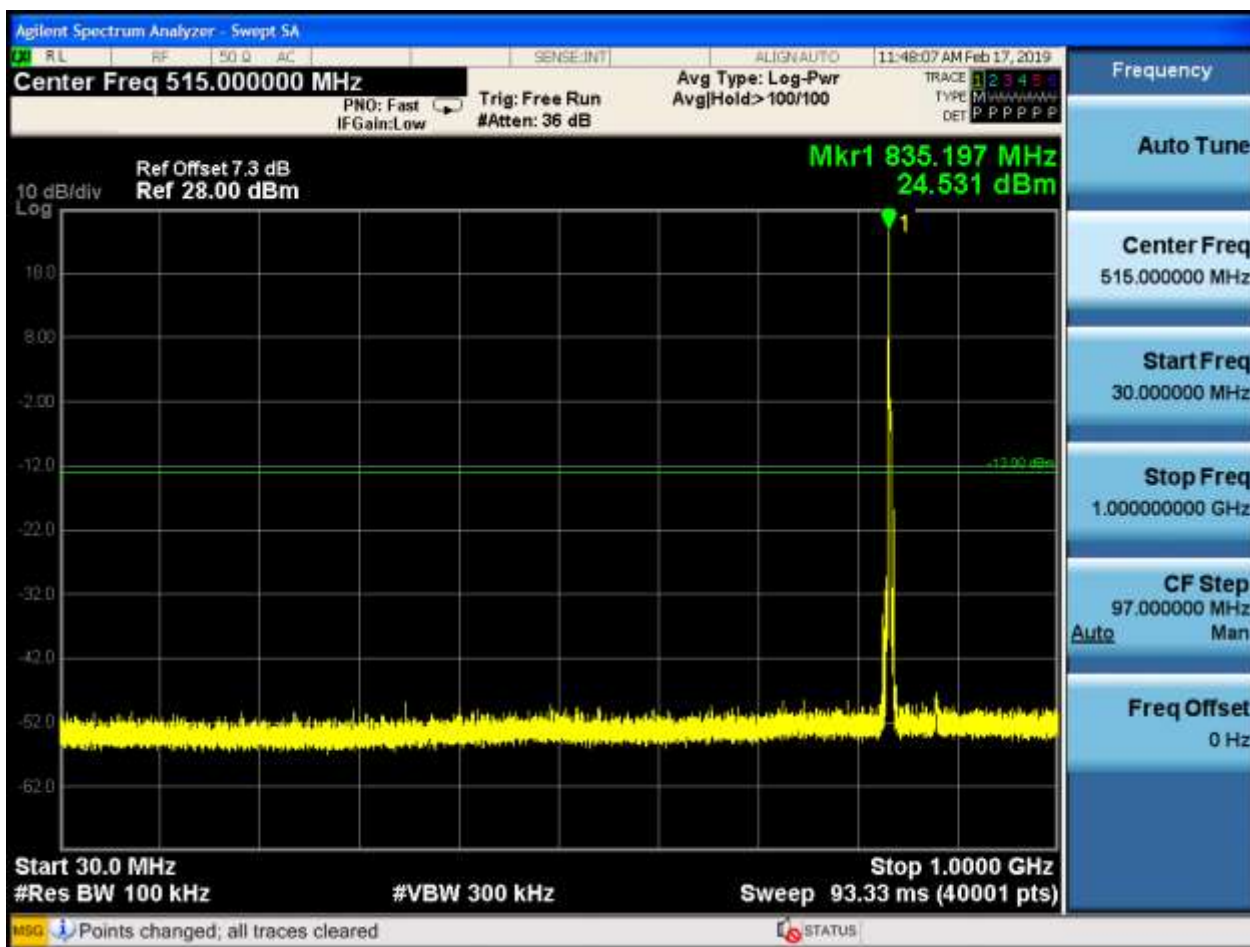


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0







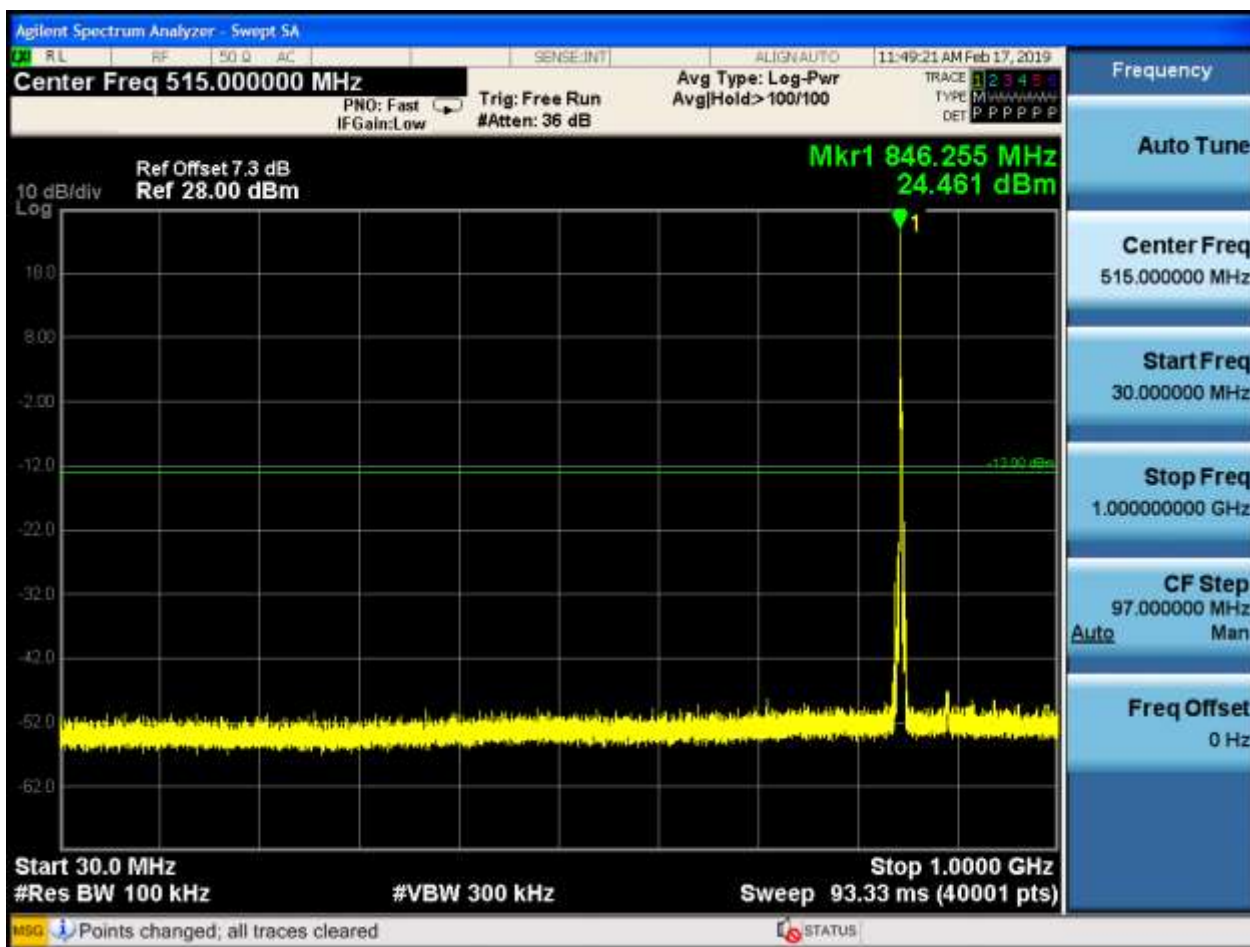


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0









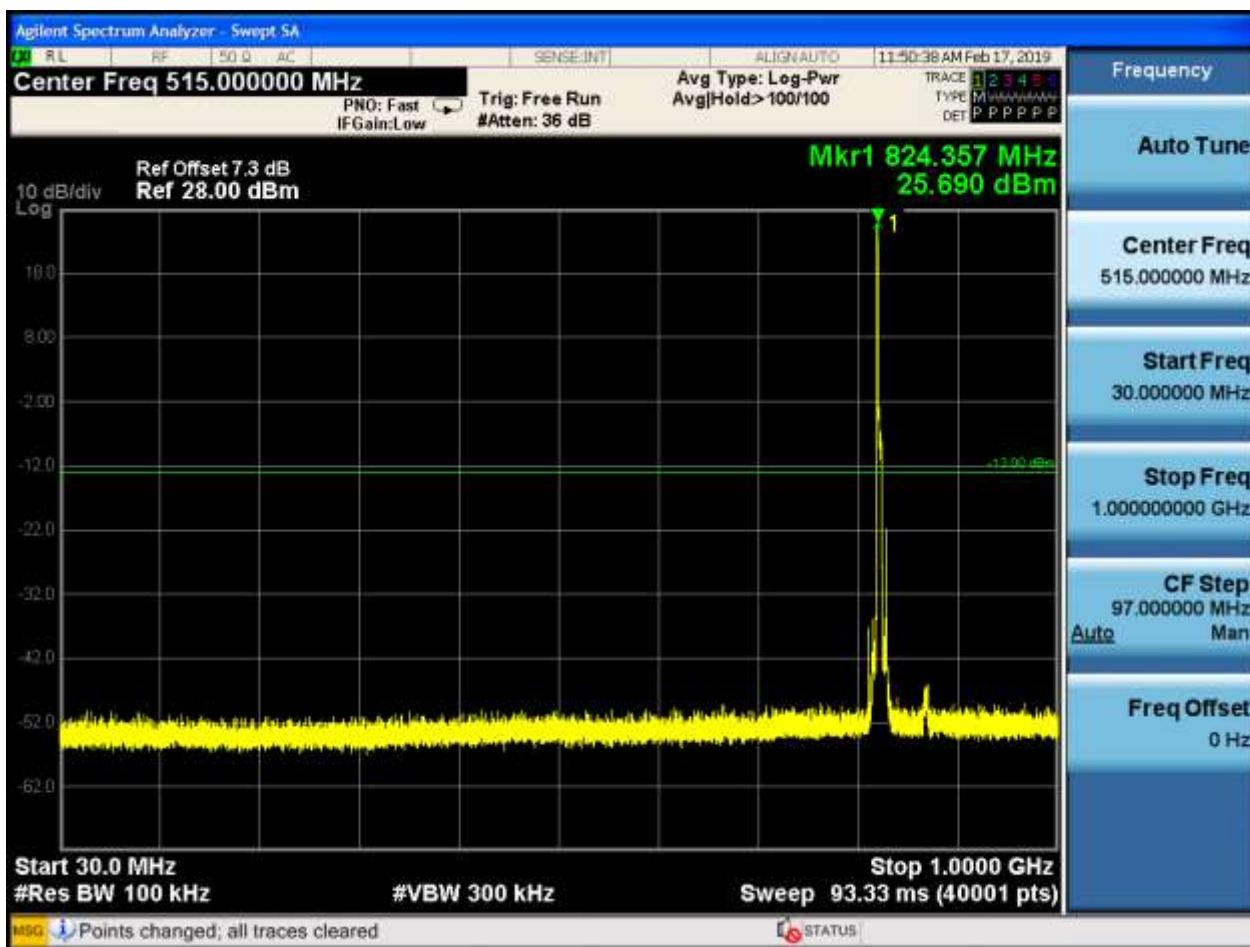
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0







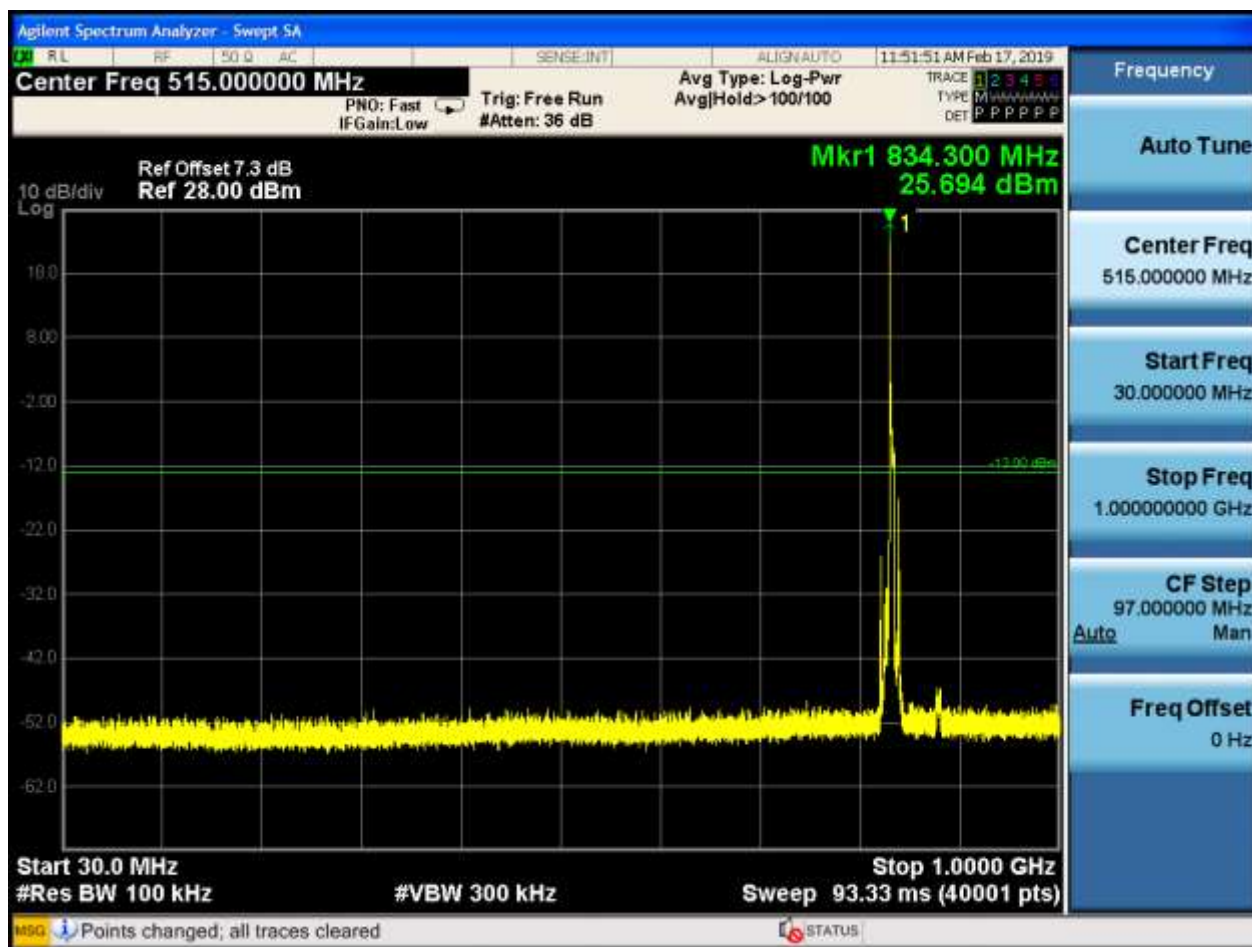


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0







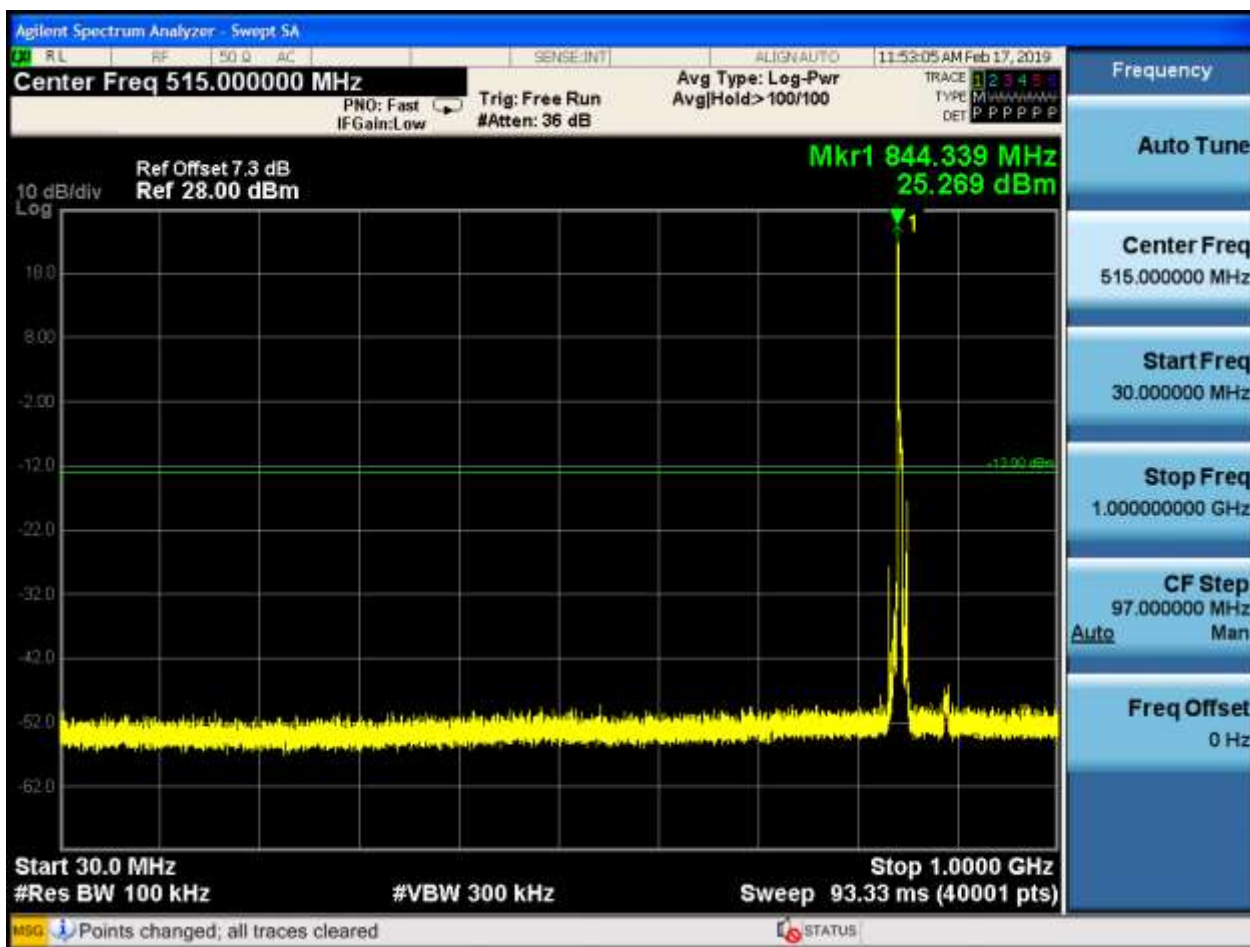


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





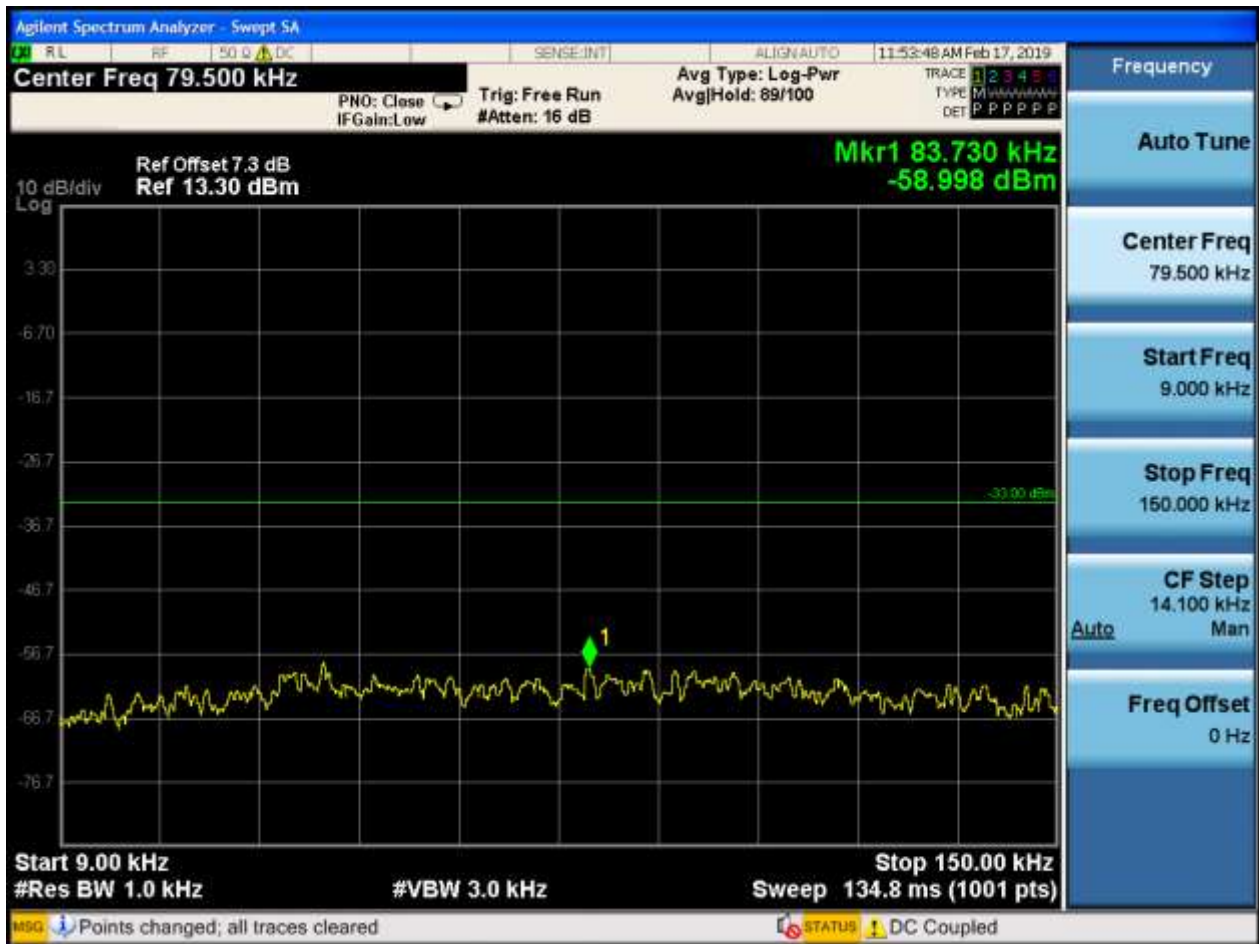




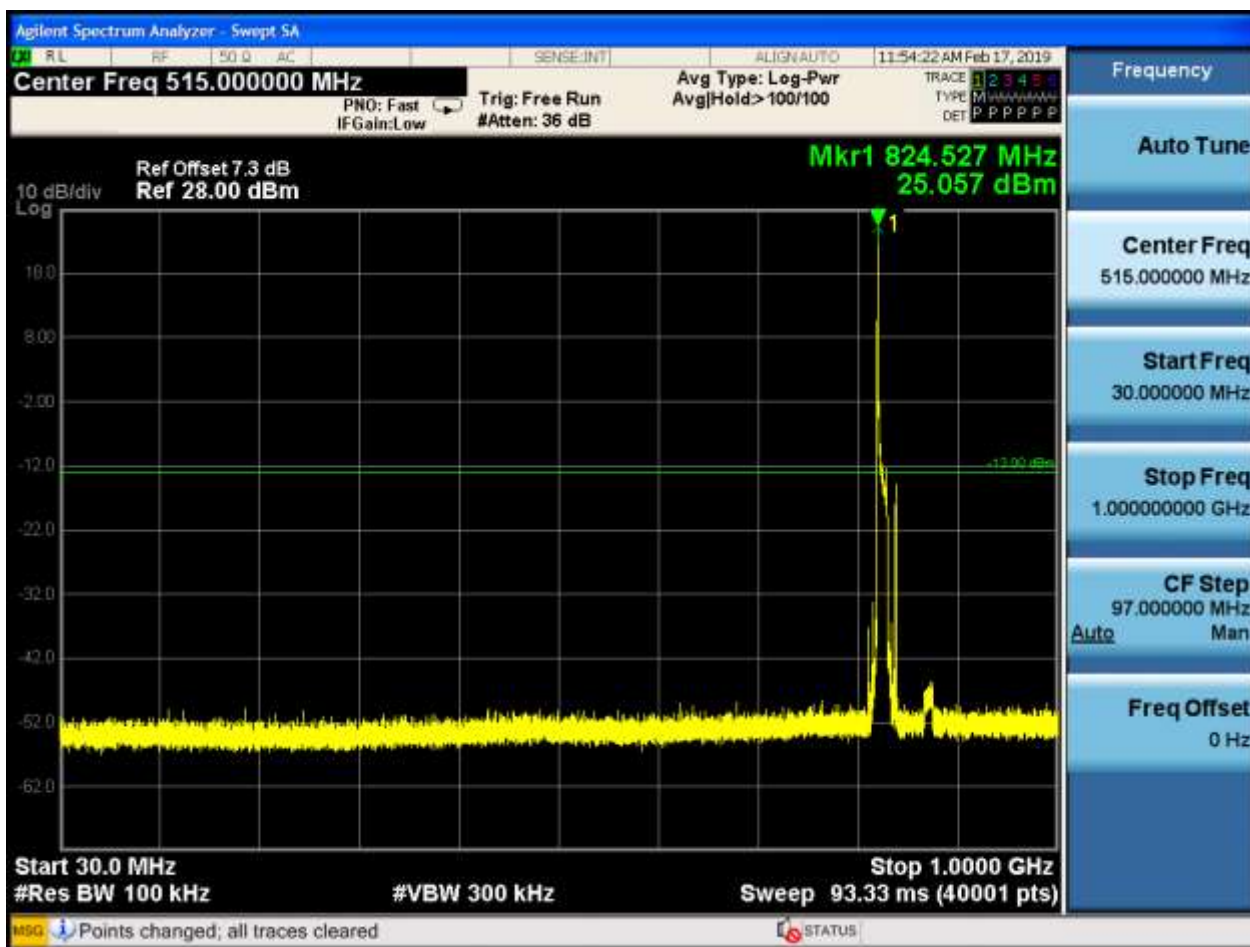
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0







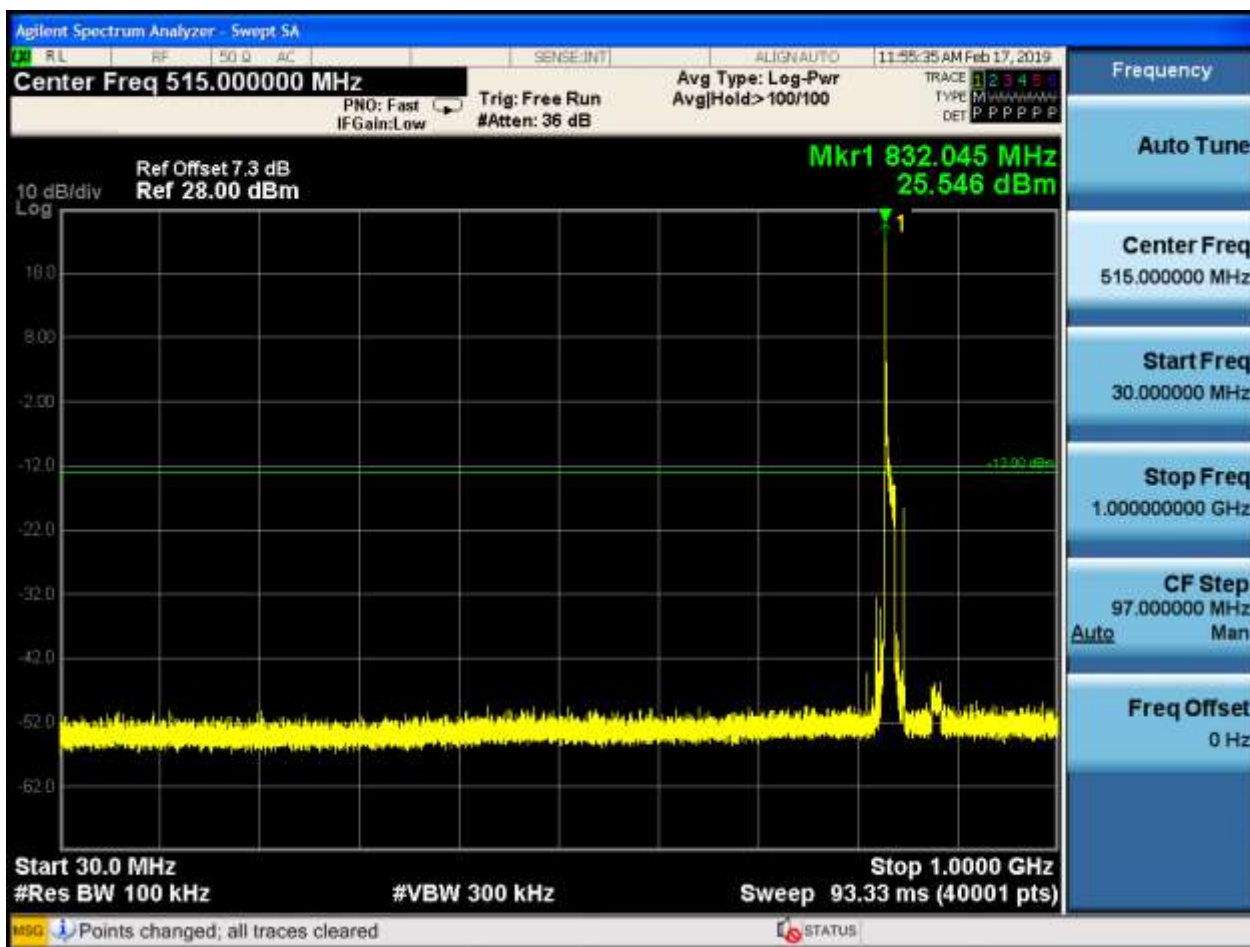


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0







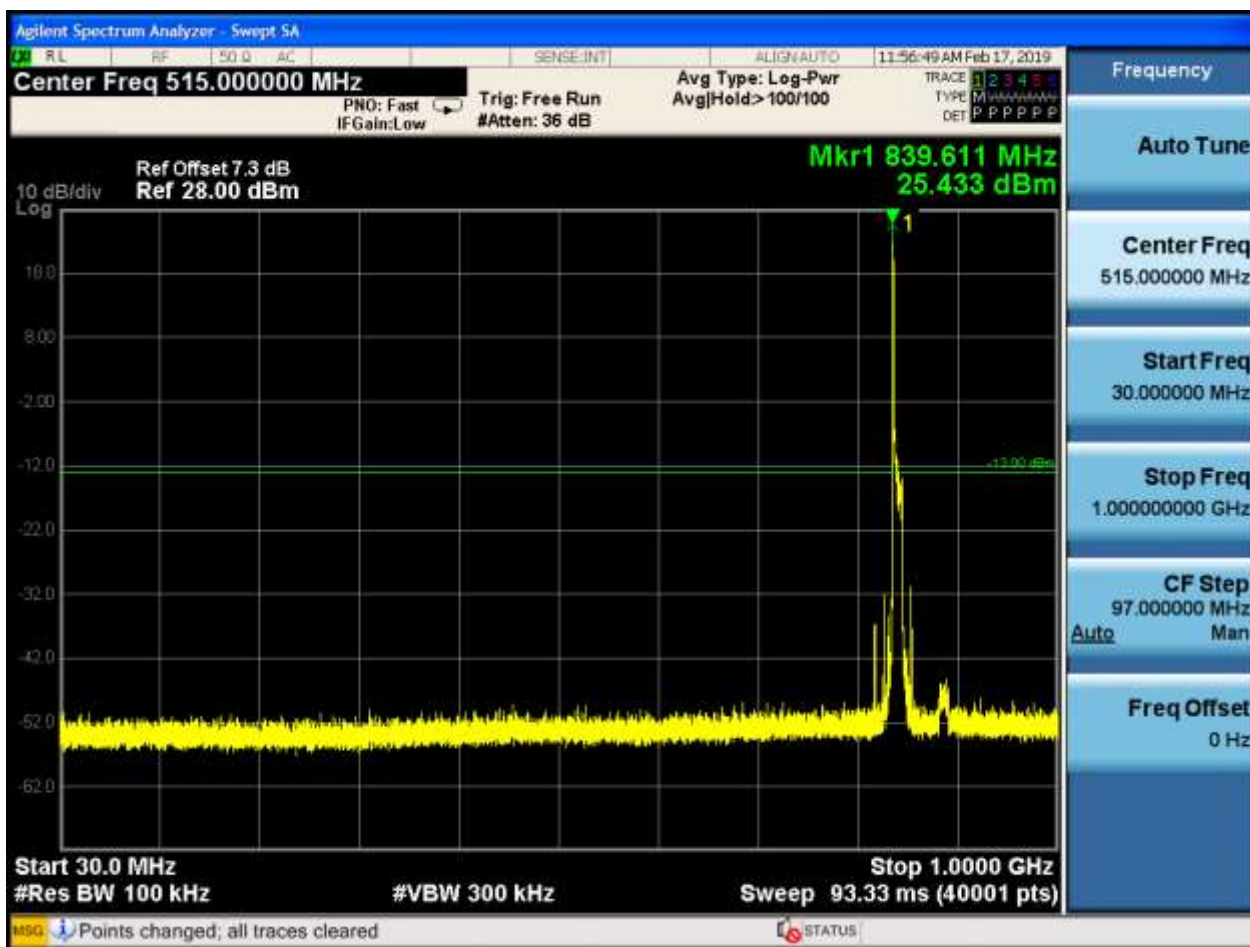


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









6.1.1.2 Test Mode = LTE/TM2

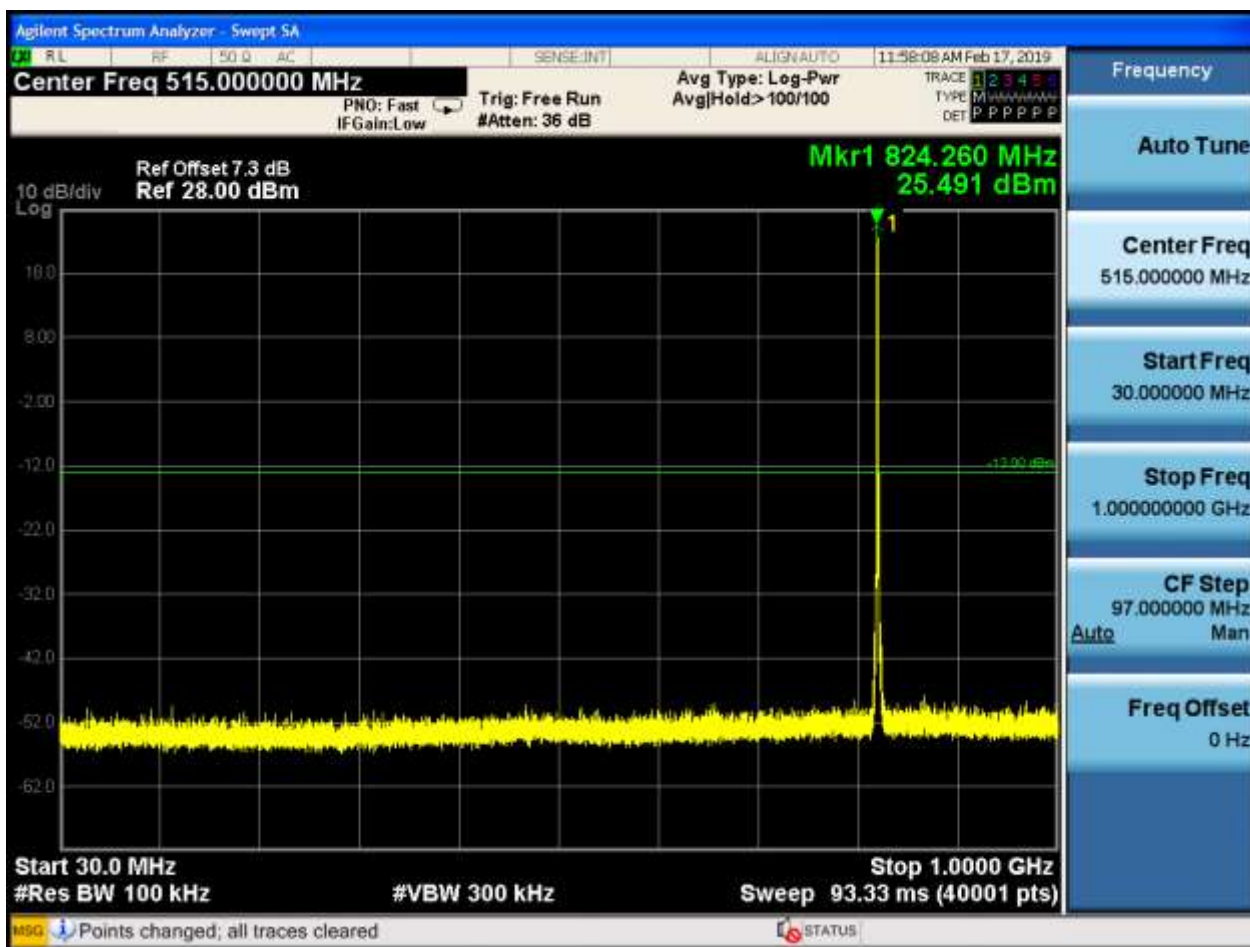
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0







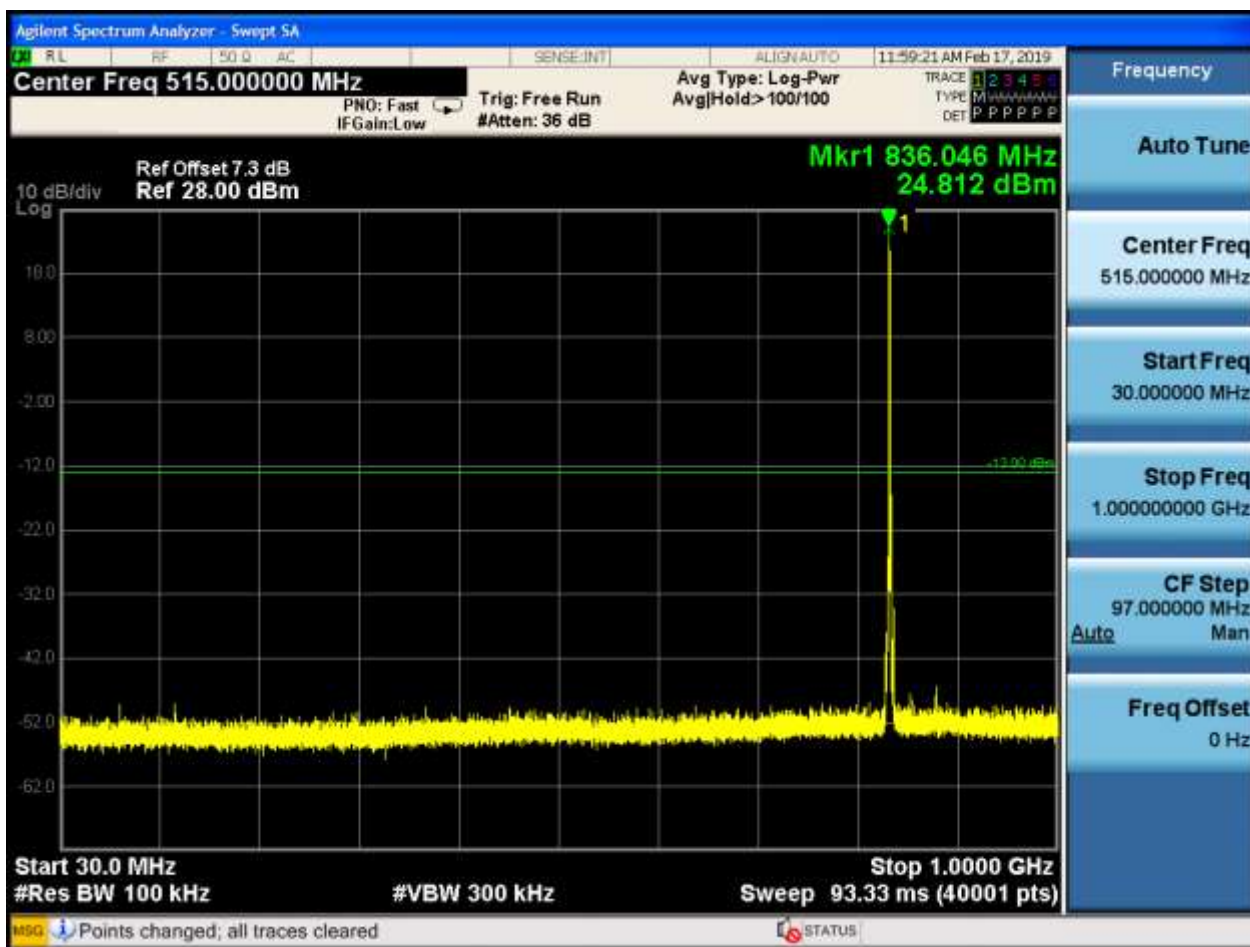


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0







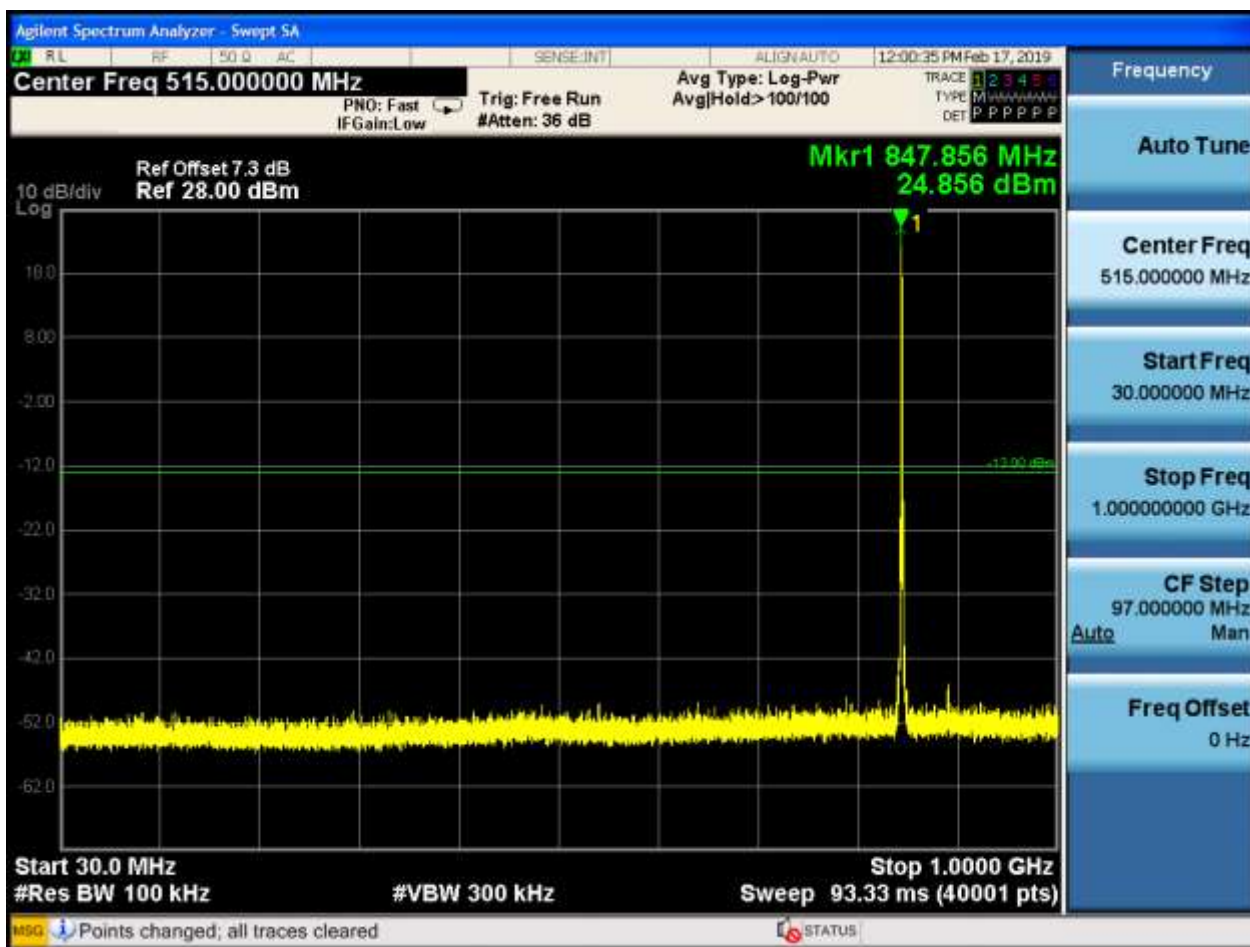


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0









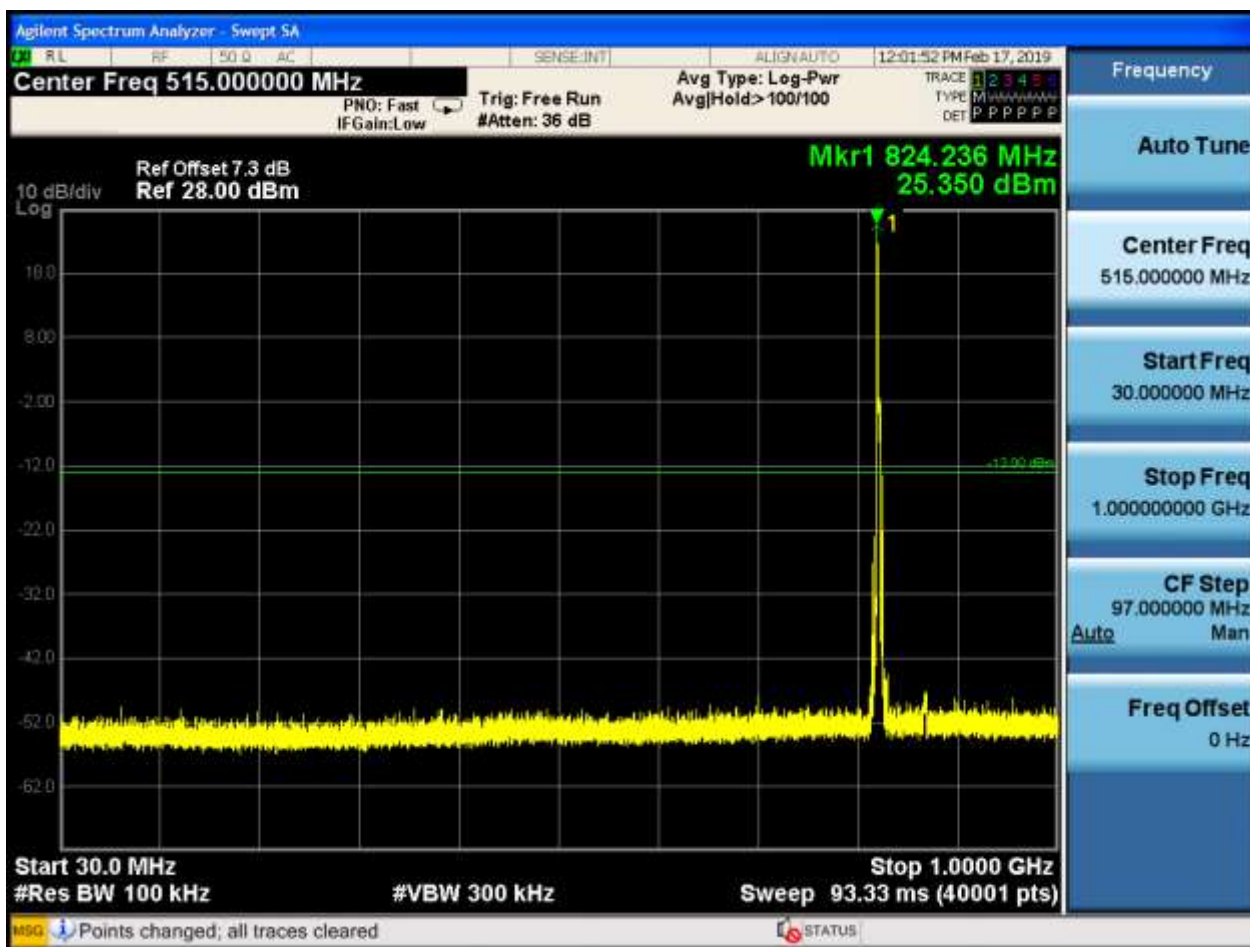
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0







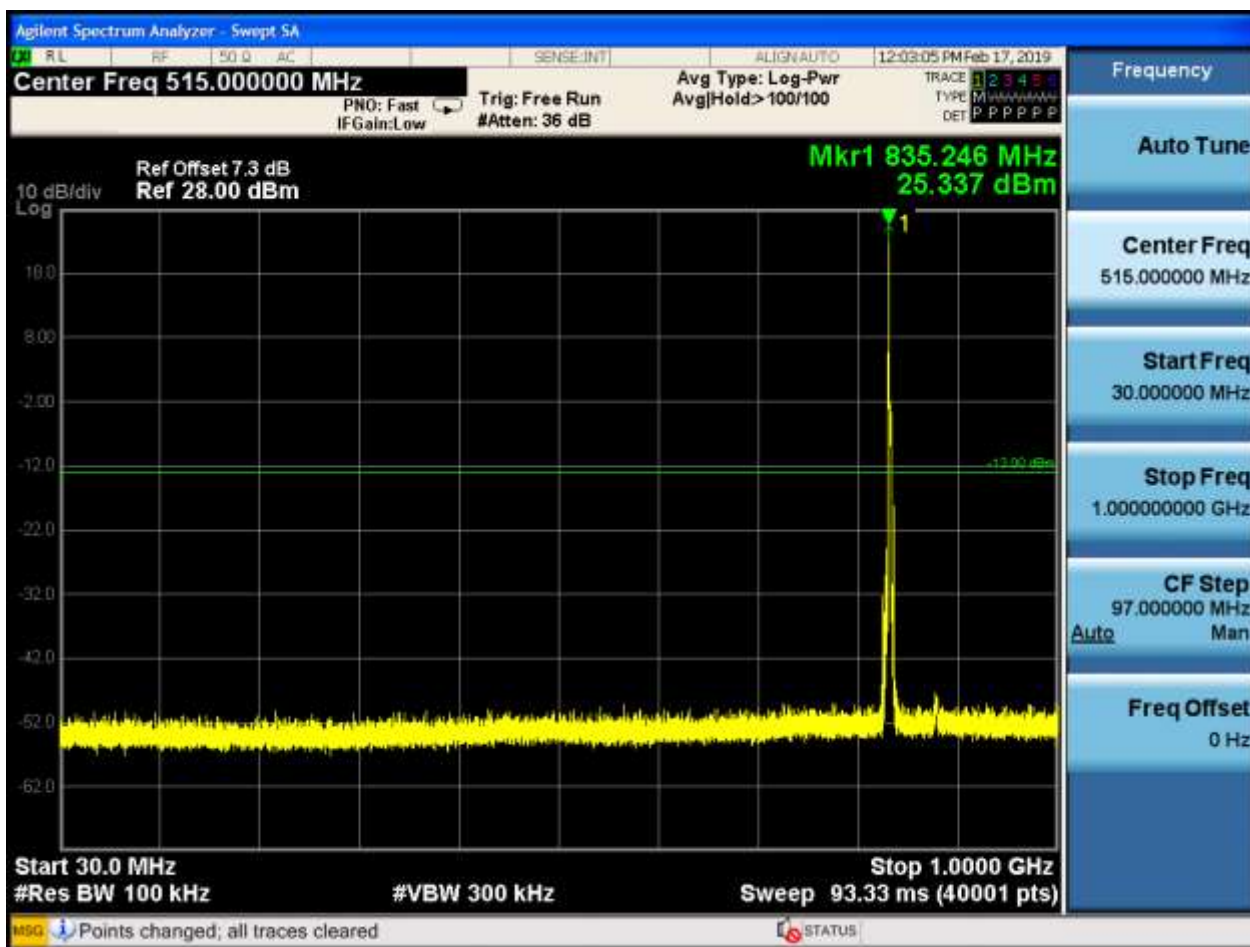


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0







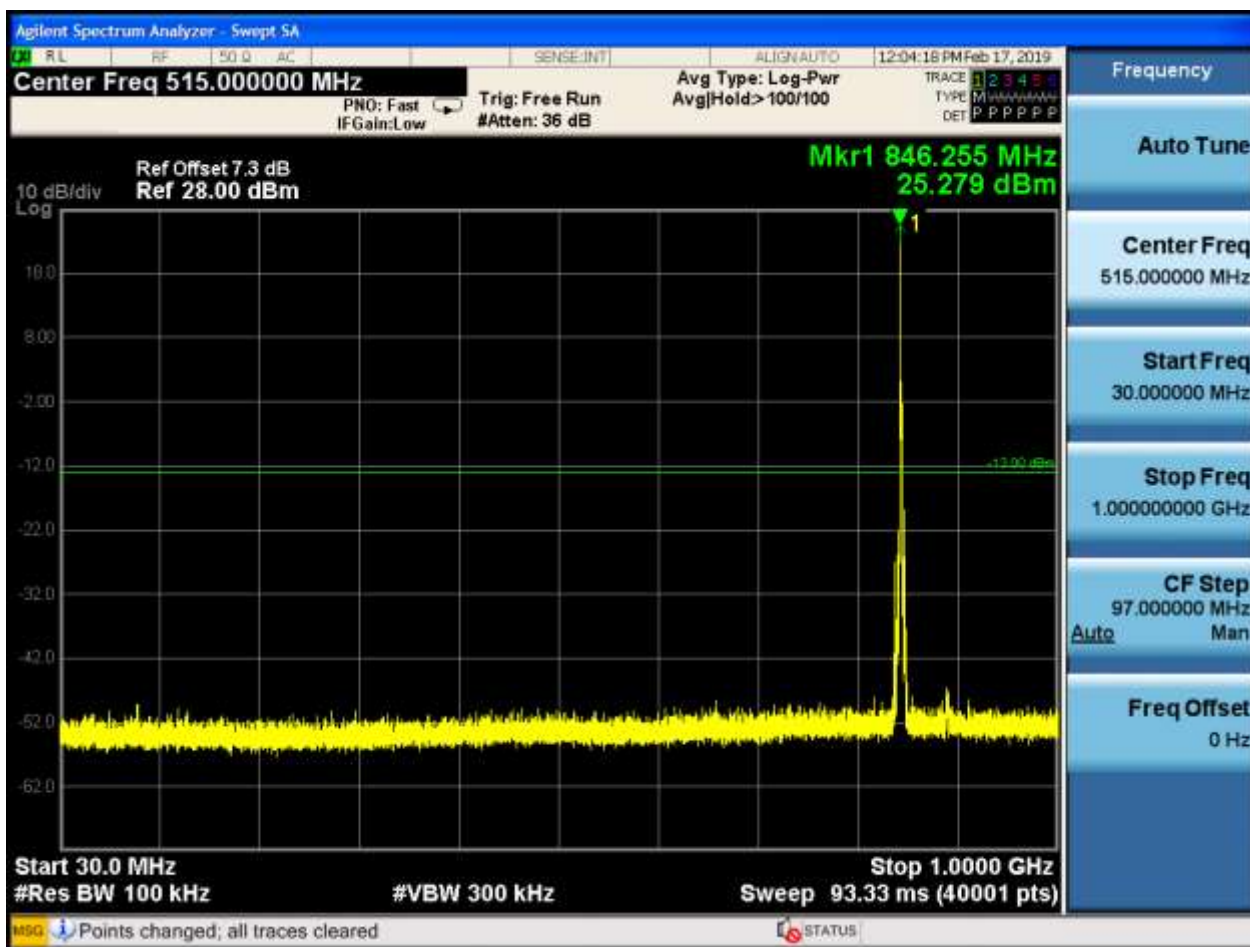


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





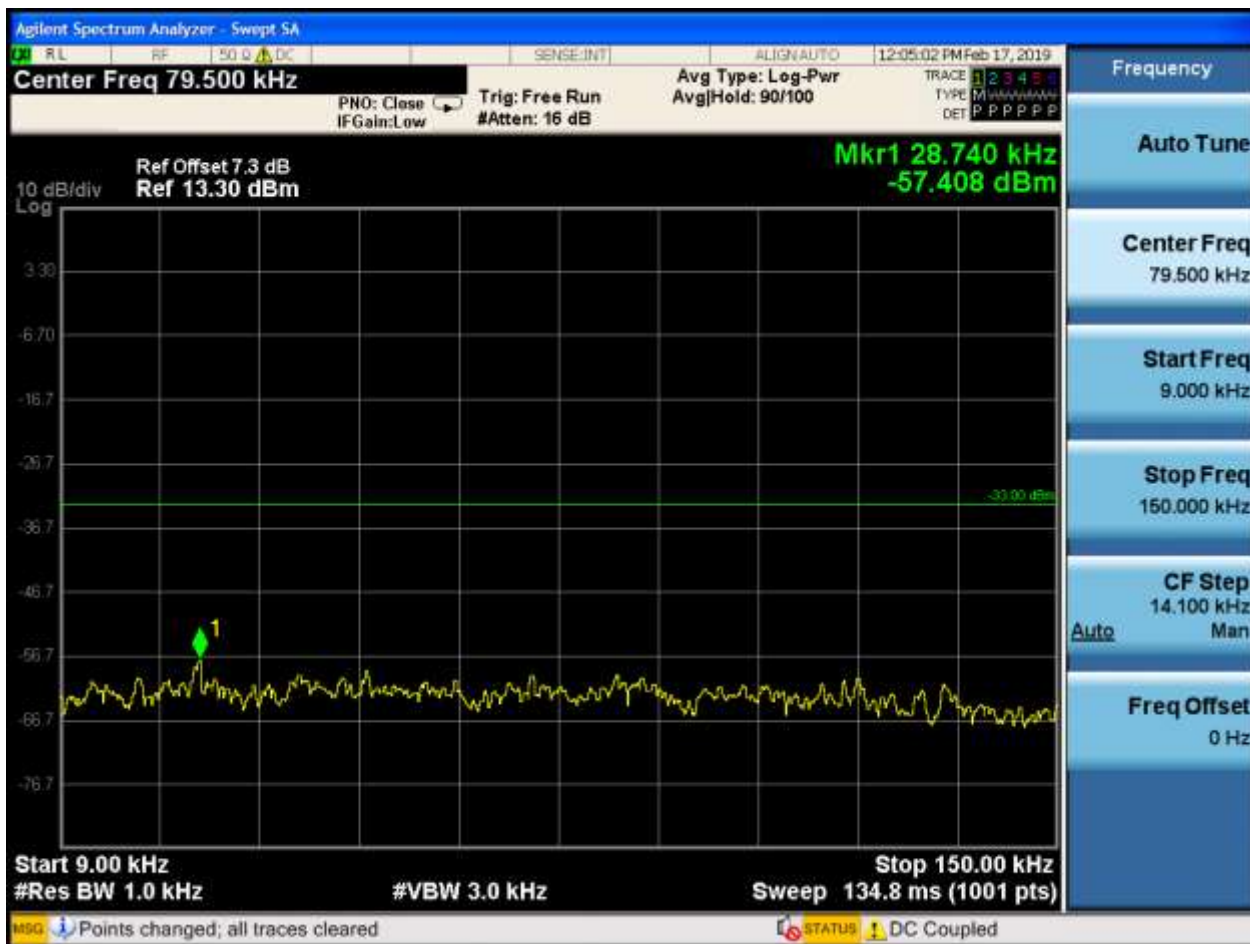




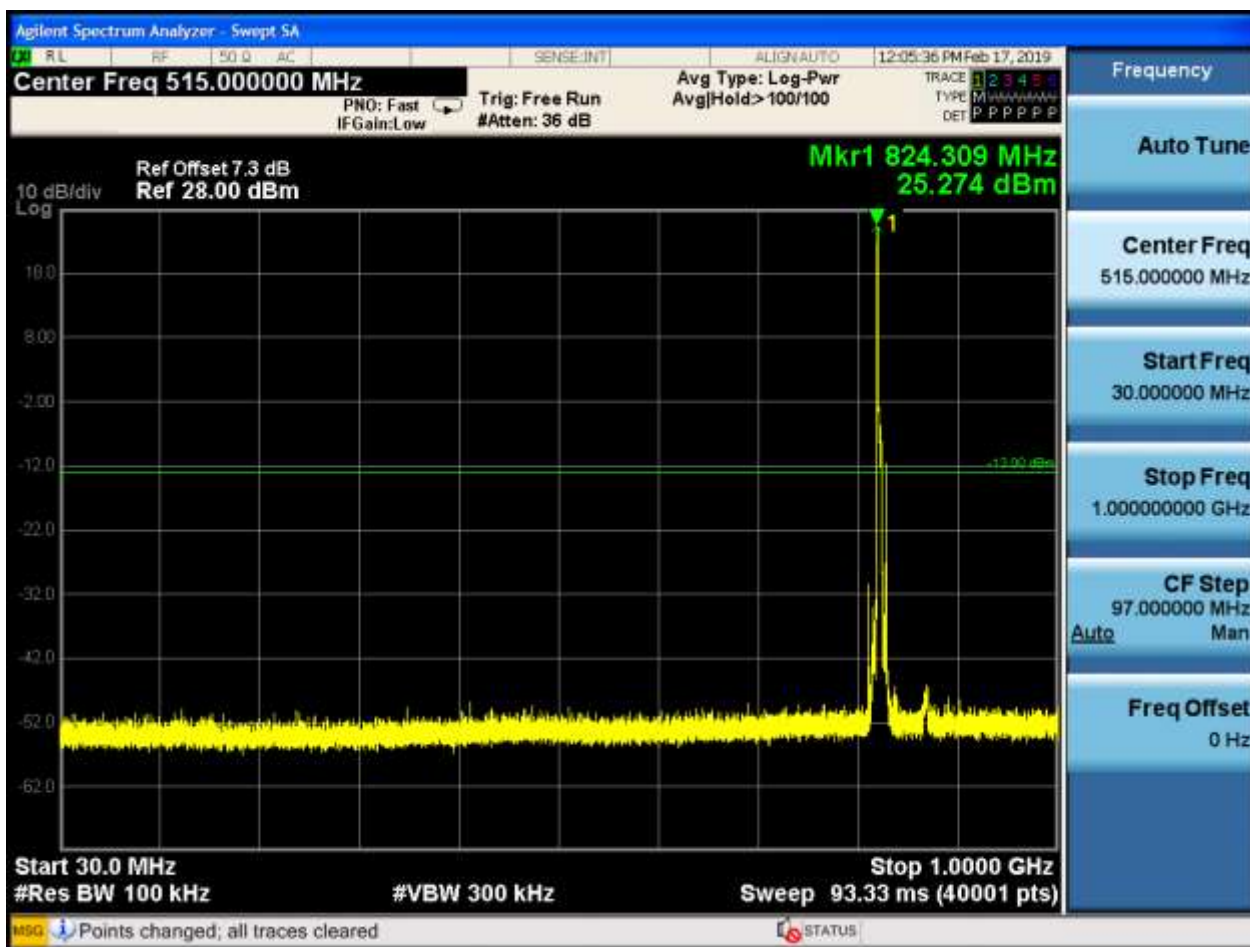
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0







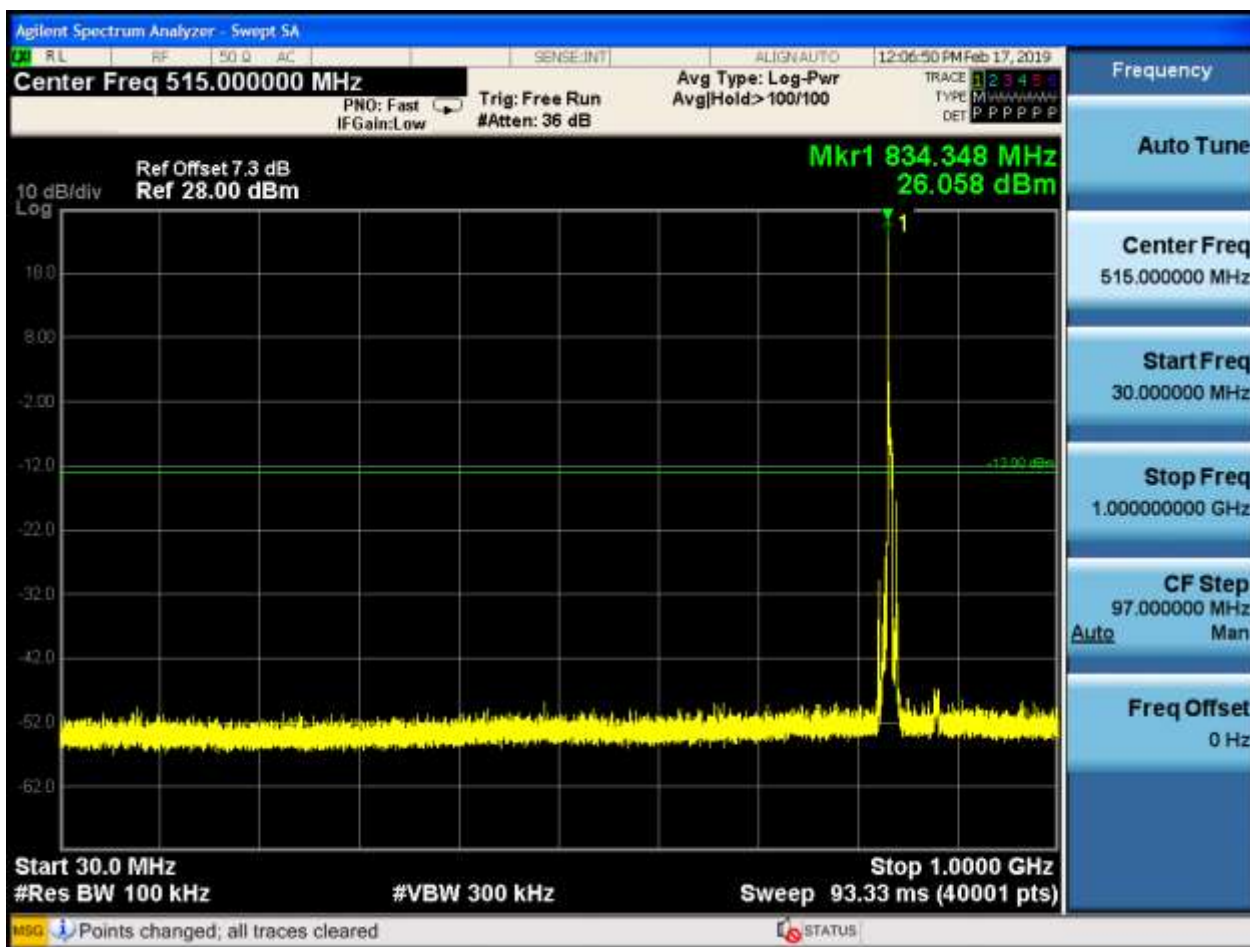


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0







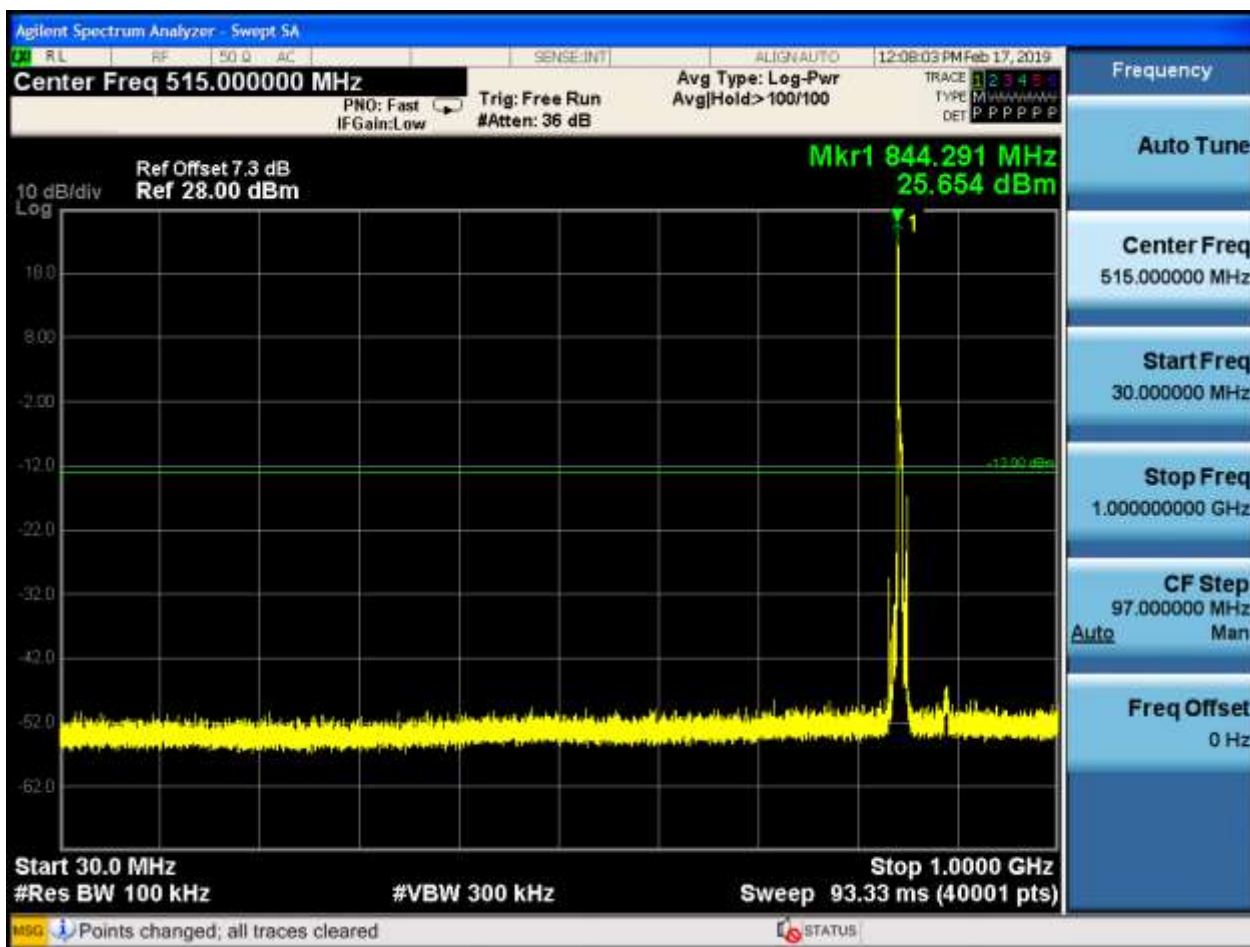


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0









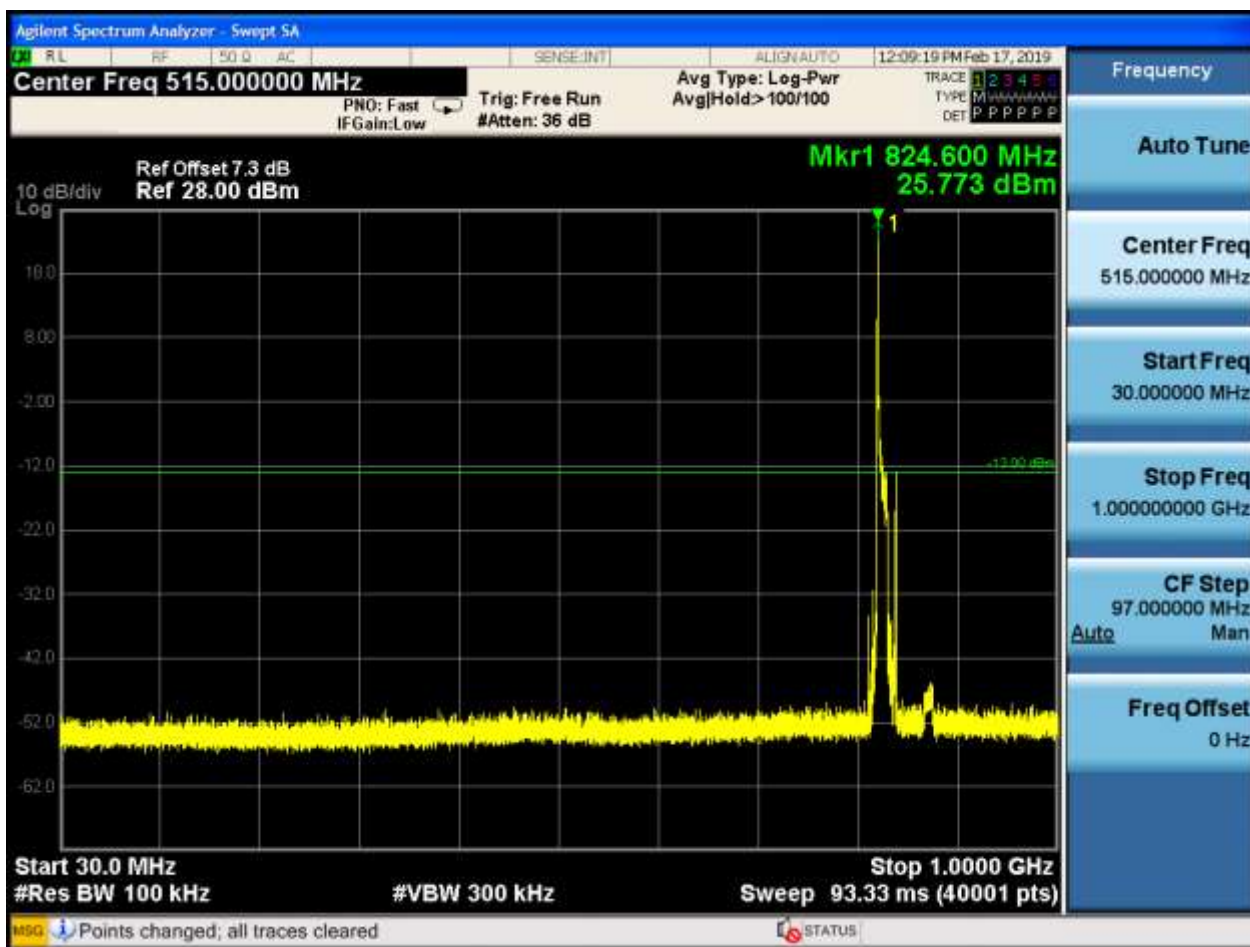
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0







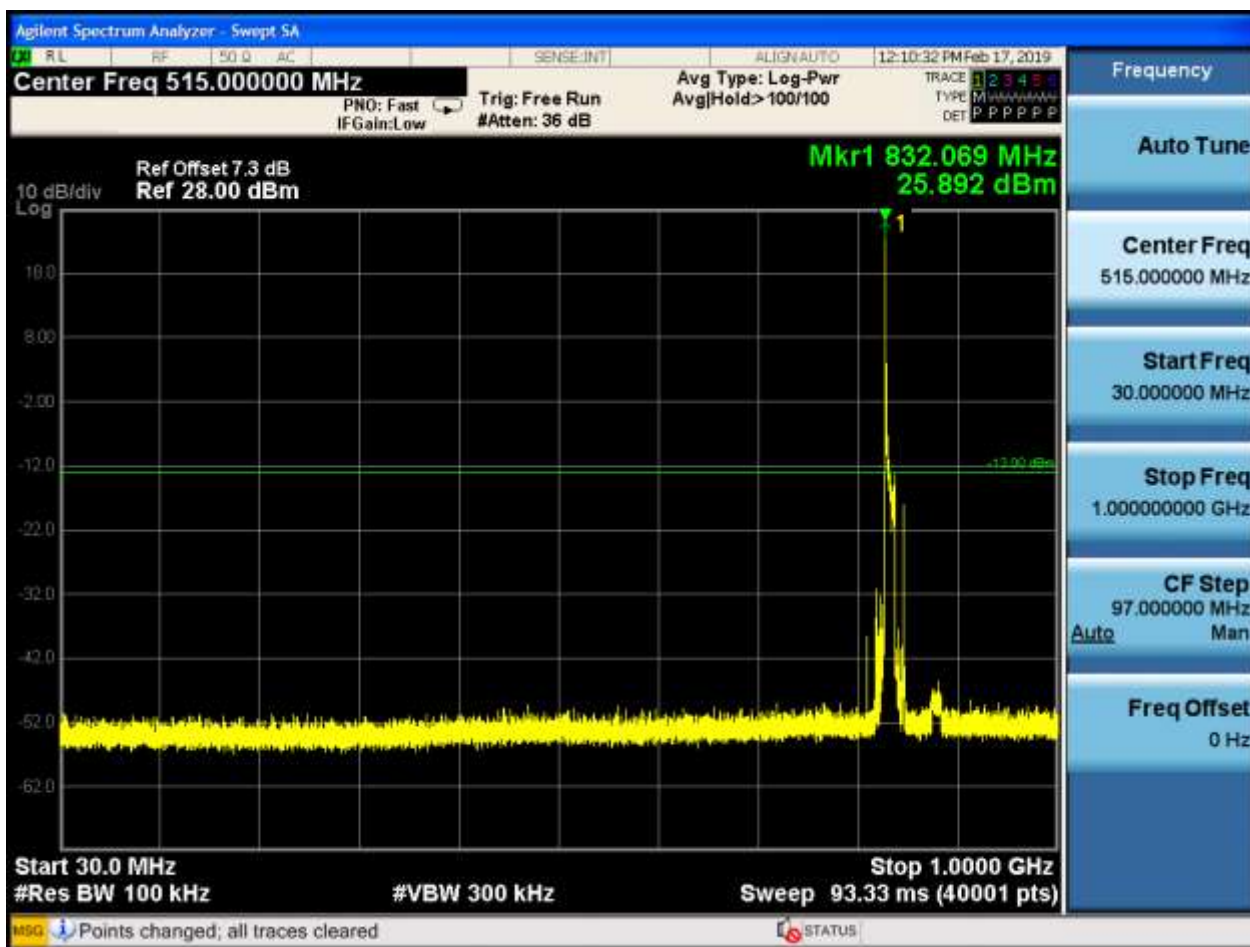


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0







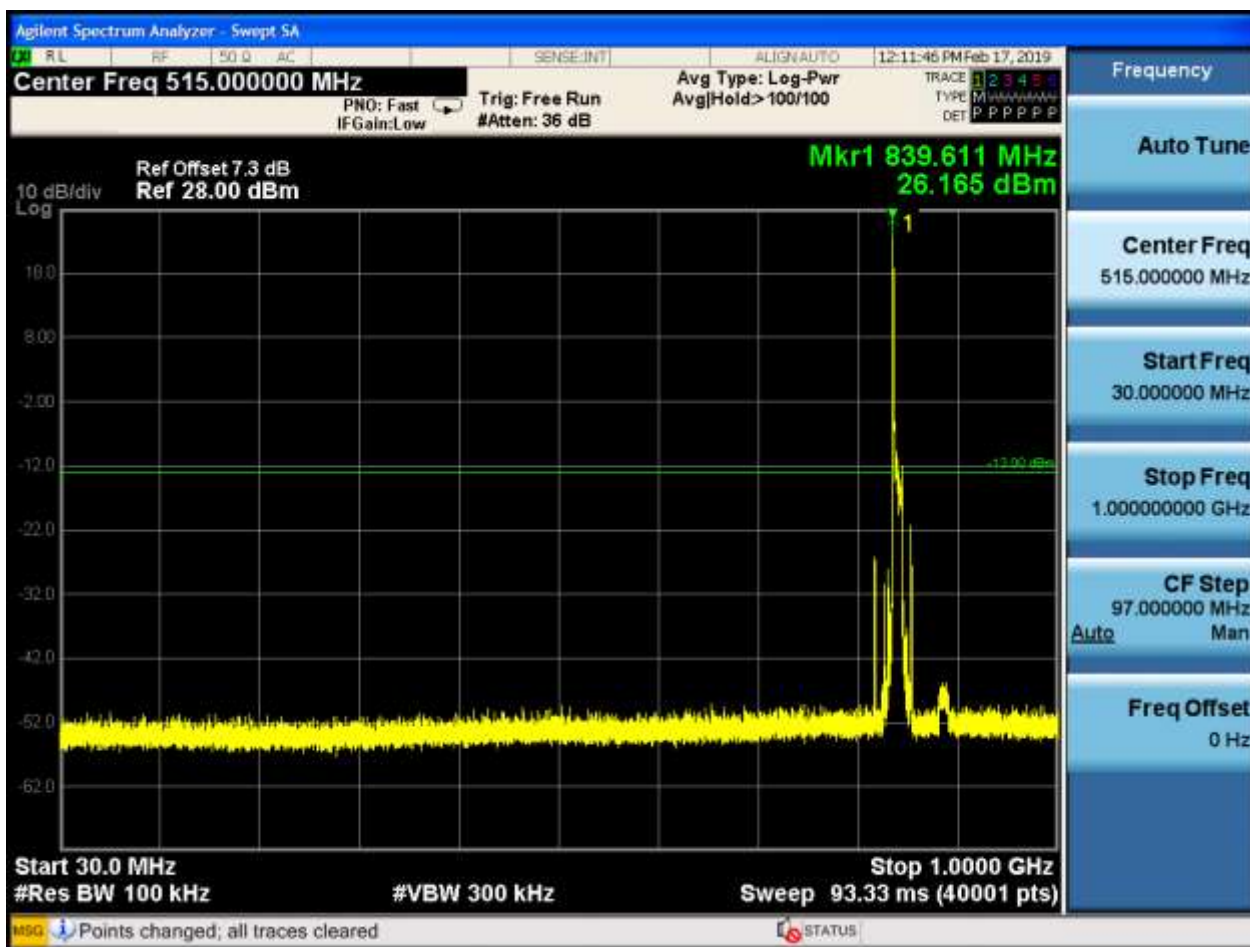


6.1.1.2.4.3 Test Channel = HCH

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, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

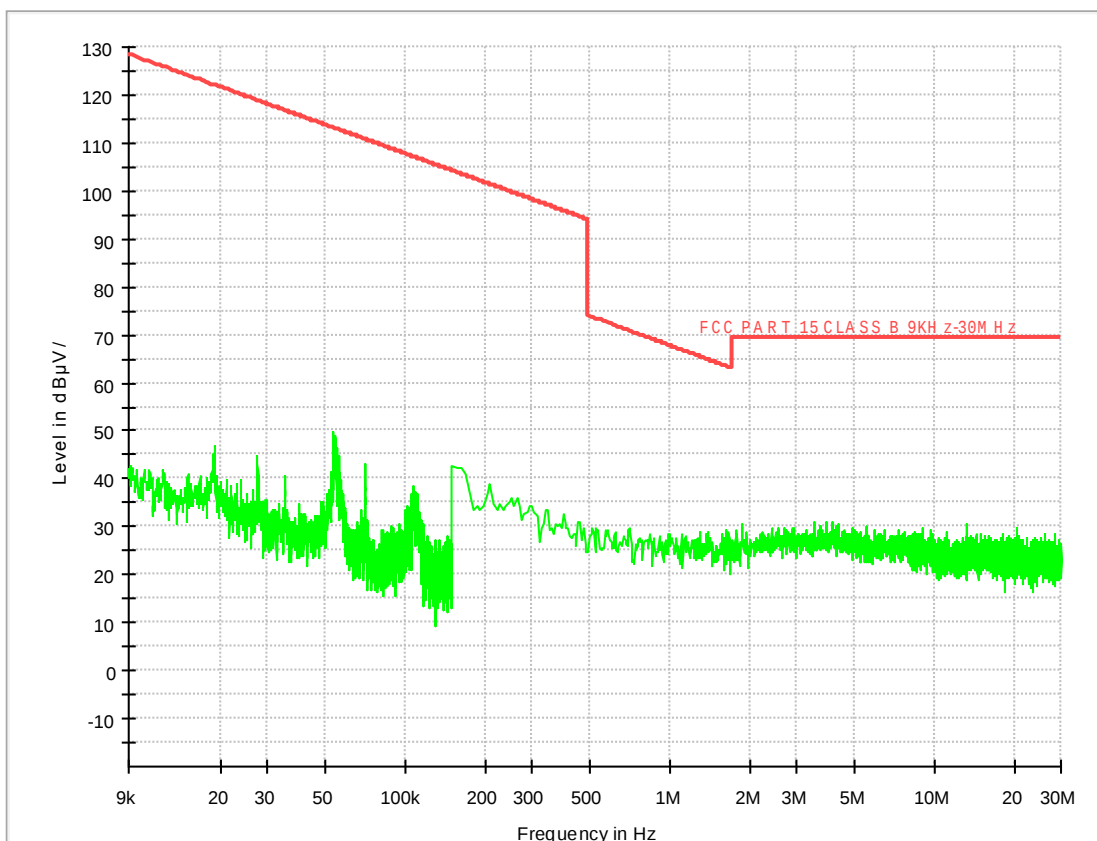
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

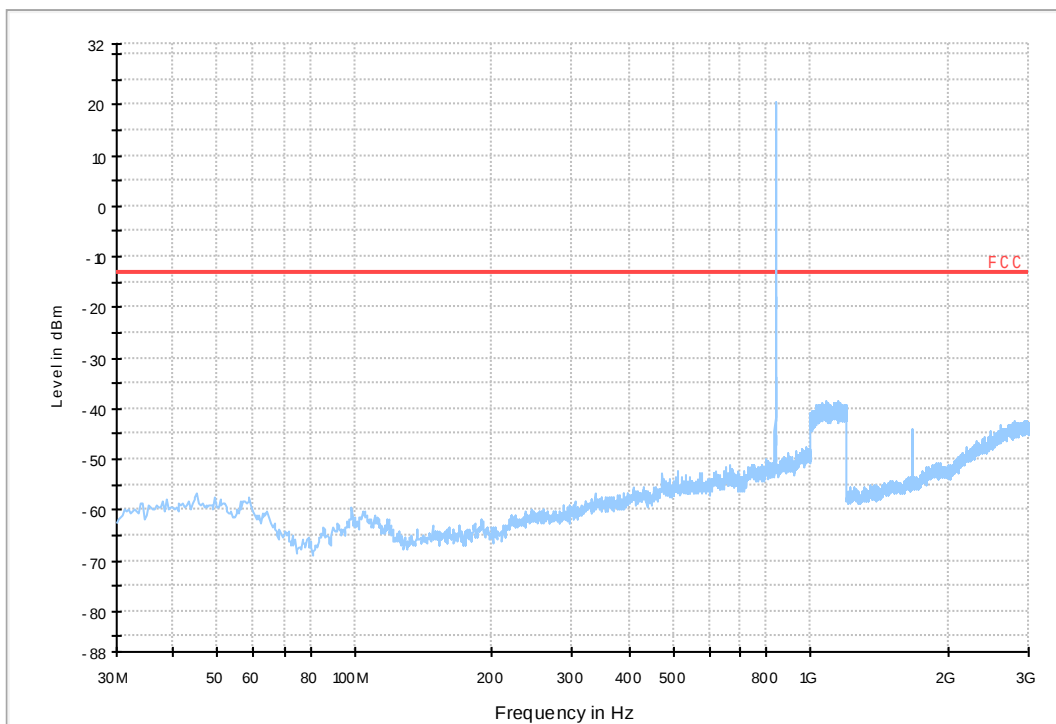
7.1 For LTE

7.1.1 Test Band = BAND5

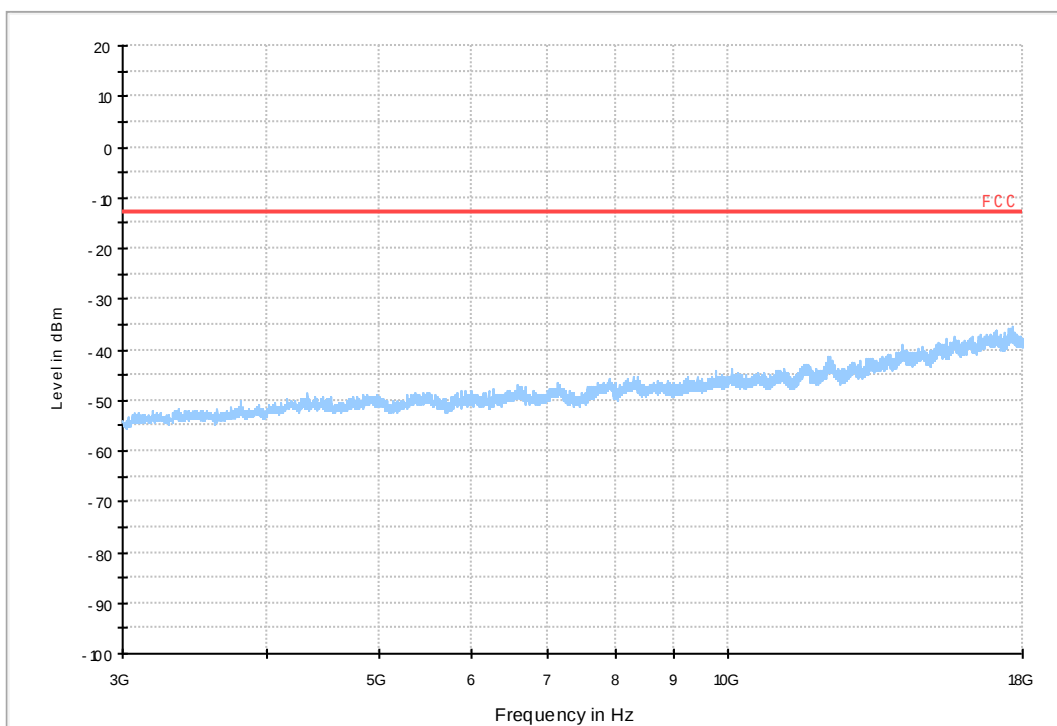
7.1.1.1 Test Bandwidth = 1.4



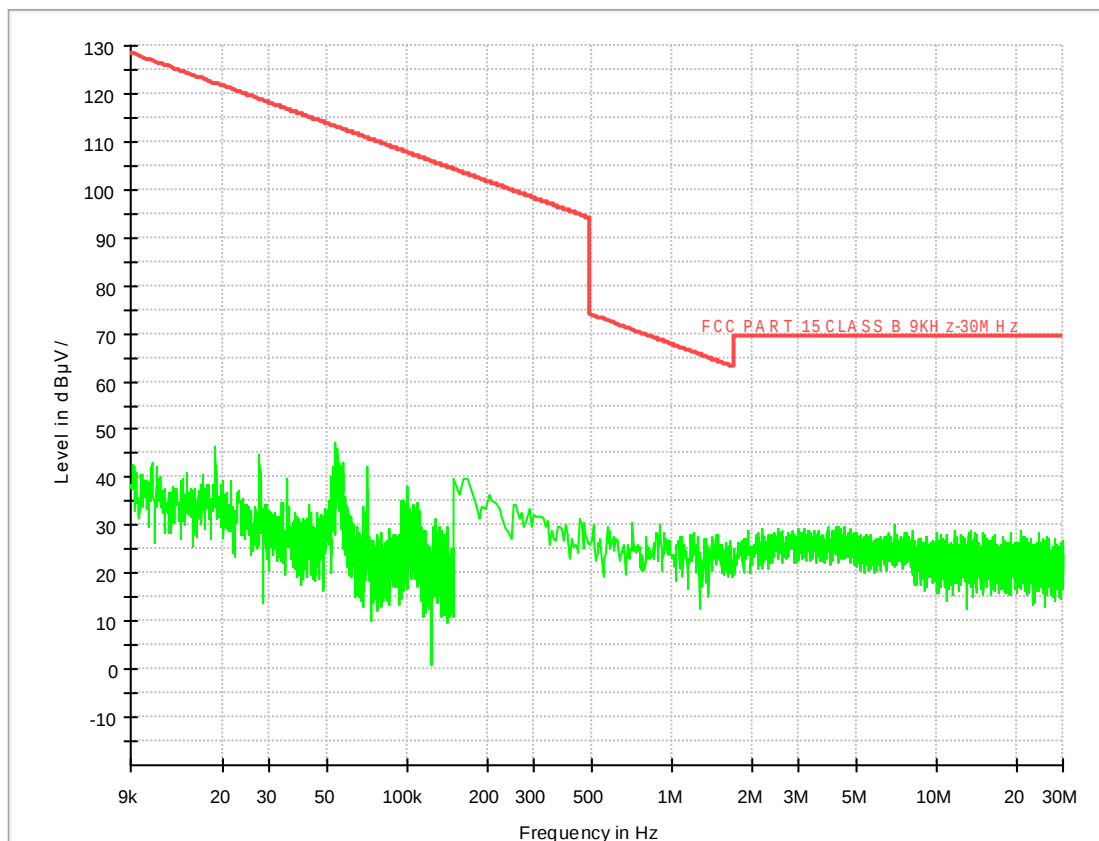
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



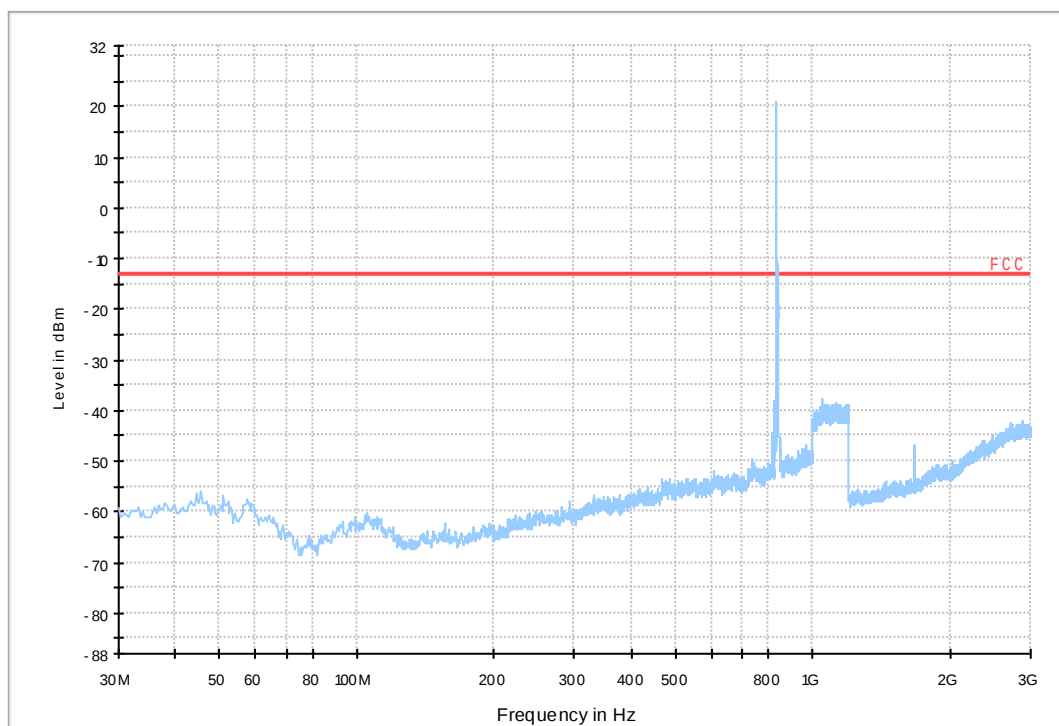
LTE FDD R SE-TX-DIRECTOR BELOW 1G_H



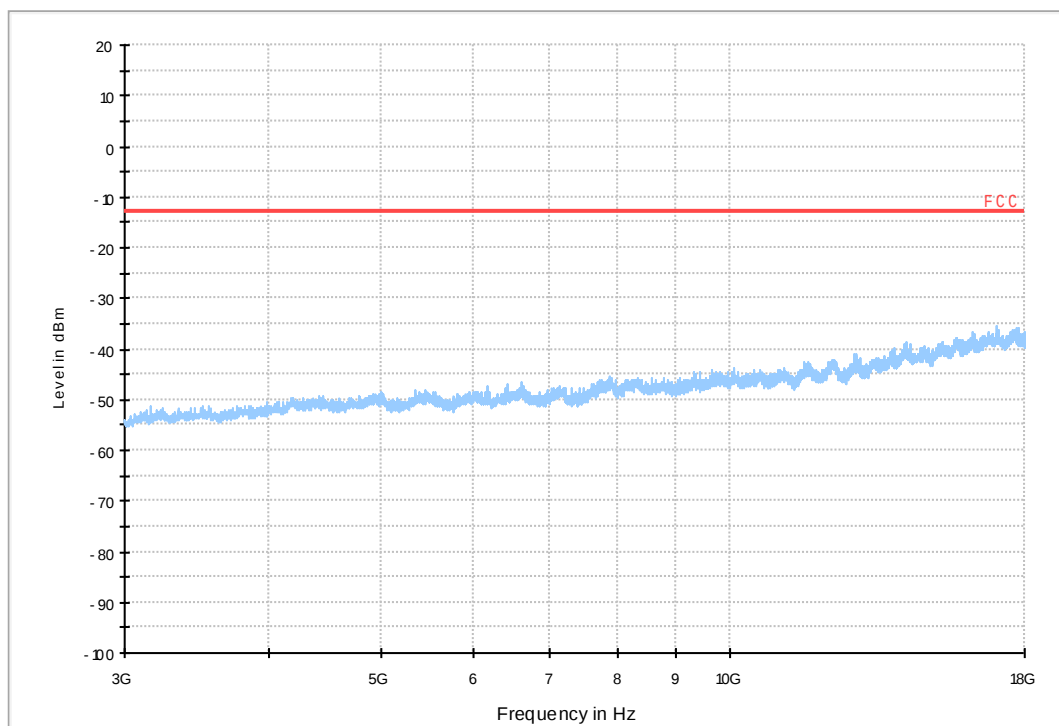
7.1.1.3 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD 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	-2.73	-0.00331	PASS
					VN	4.84	0.00587	PASS
					VH	1.75	0.00212	PASS
			MCH	TN	VL	6.21	0.00742	PASS
					VN	-11.87	-0.01419	PASS
					VH	-7.4	-0.00885	PASS
			HCH	TN	VL	-12.1	-0.01426	PASS
					VN	-2.73	-0.00322	PASS
					VH	-0.59	-0.0007	PASS
		3	LCH	TN	VL	0.92	0.00111	PASS
					VN	-0.66	-0.0008	PASS
					VH	-2.72	-0.00329	PASS
			MCH	TN	VL	-3.1	-0.00371	PASS
					VN	0.63	0.00075	PASS
					VH	0.54	0.00065	PASS
			HCH	TN	VL	-2.12	-0.0025	PASS
					VN	1.09	0.00129	PASS
					VH	-5.36	-0.00632	PASS
		5	LCH	TN	VL	-2.3	-0.00278	PASS
					VN	2.5	0.00302	PASS
					VH	-1.14	-0.00138	PASS
			MCH	TN	VL	-1.69	-0.00202	PASS
					VN	-0.43	-0.00051	PASS
					VH	-2.5	-0.00299	PASS
			HCH	TN	VL	-1.76	-0.00208	PASS
					VN	-0.2	-0.00024	PASS
					VH	-0.24	-0.00028	PASS
		10	LCH	TN	VL	-5.04	-0.00608	PASS
					VN	4.98	0.00601	PASS
					VH	-17.78	-0.02145	PASS
			MCH	TN	VL	-15.16	-0.01812	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-18.42	-0.02202	PASS
					VH	-24.55	-0.02935	PASS
			HCH	TN	VL	0.16	0.00019	PASS
					VN	5.02	0.00595	PASS
					VH	-1.75	-0.00207	PASS
		1.4	LCH	TN	VL	53.74	0.06516	PASS
					VN	-2.42	-0.00293	PASS
					VH	-6.59	-0.00799	PASS
			MCH	TN	VL	-73.84	-0.08827	PASS
					VN	15.29	0.01828	PASS
					VH	0.79	0.00094	PASS
			HCH	TN	VL	1.73	0.00204	PASS
					VN	-5.62	-0.00663	PASS
					VH	6.65	0.00784	PASS
		3	LCH	TN	VL	-0.1	-0.00012	PASS
					VN	-0.24	-0.00029	PASS
					VH	-0.83	-0.00101	PASS
			MCH	TN	VL	-0.97	-0.00116	PASS
					VN	-0.83	-0.00099	PASS
					VH	1.17	0.0014	PASS
			HCH	TN	VL	-2.02	-0.00238	PASS
					VN	-5.34	-0.0063	PASS
					VH	2.22	0.00262	PASS
		5	LCH	TN	VL	1.69	0.00204	PASS
					VN	-0.1	-0.00012	PASS
					VH	0.82	0.00099	PASS
			MCH	TN	VL	1.75	0.00209	PASS
					VN	-1.97	-0.00236	PASS
					VH	1.39	0.00166	PASS
			HCH	TN	VL	-1.12	-0.00132	PASS
					VN	0.76	0.0009	PASS
					VH	-1.34	-0.00158	PASS
		10	LCH	TN	VL	-6.68	-0.00806	PASS
					VN	-10.37	-0.01251	PASS
					VH	-7.05	-0.0085	PASS
			MCH	TN	VL	-1.9	-0.00227	PASS
					VN	2.88	0.00344	PASS
					VH	-3.35	-0.004	PASS
			HCH	TN	VL	-0.33	-0.00039	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	-0.00011	PASS
					VH	-0.79	-0.00094	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	-1.89	-0.00229	PASS
					-20	-0.41	-0.0005	PASS
					-10	-1.85	-0.00224	PASS
					0	-1.69	-0.00205	PASS
					10	-1.14	-0.00138	PASS
					20	-1.27	-0.00154	PASS
					30	-2.03	-0.00246	PASS
					40	-1.82	-0.00221	PASS
					50	-0.73	-0.00089	PASS
			MCH	VN	-30	-1.85	-0.00221	PASS
					-20	-1.04	-0.00124	PASS
					-10	-1.27	-0.00152	PASS
					0	-1.17	-0.0014	PASS
					10	-0.87	-0.00104	PASS
					20	-0.09	-0.00011	PASS
					30	-0.28	0.00033	PASS
					40	-0.99	-0.00118	PASS
					50	-2.26	-0.0027	PASS
			HCH	VN	-30	-0.51	-0.0006	PASS
					-20	0.53	0.00062	PASS
					-10	-1.87	-0.0022	PASS
					0	-0.19	-0.00022	PASS
					10	-0.43	-0.00051	PASS
					20	2.13	0.00251	PASS
					30	-0.17	-0.0002	PASS
					40	1.44	0.0017	PASS
					50	0.26	0.00031	PASS
		3	LCH	VN	-30	-13.5	-0.01635	PASS
					-20	0.96	0.00116	PASS
					-10	0.73	0.00088	PASS
					0	1.24	0.0015	PASS
					10	0.2	0.00024	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-5.38	-0.00652	PASS
					30	0.96	0.00116	PASS
					40	0.94	0.00114	PASS
					50	0.7	0.00085	PASS
			MCH	VN	-30	-0.94	-0.00112	PASS
					-20	-2.1	-0.00251	PASS
					-10	-1.42	-0.0017	PASS
					0	-1.34	-0.0016	PASS
					10	-2	-0.00239	PASS
					20	0.57	0.00068	PASS
					30	-0.51	-0.00061	PASS
					40	-0.79	-0.00094	PASS
					50	-0.06	-0.00007	PASS
			HCH	VN	-30	-1.99	-0.00235	PASS
					-20	-1.24	-0.00146	PASS
					-10	-1.26	-0.00149	PASS
					0	-1.56	-0.00184	PASS
					10	-1.92	-0.00227	PASS
					20	-0.1	-0.00012	PASS
					30	-1.12	-0.00132	PASS
					40	-1.1	-0.0013	PASS
					50	-1.13	-0.00133	PASS
		5	LCH	VN	-30	-5.06	-0.00612	PASS
					-20	-11.4	-0.01379	PASS
					-10	-4.52	-0.00547	PASS
					0	-10.51	-0.01272	PASS
					10	-11	-0.01331	PASS
					20	-3.5	-0.00423	PASS
					30	-1.79	-0.00217	PASS
					40	-10.73	-0.01298	PASS
					50	-6.48	-0.00784	PASS
			MCH	VN	-30	-3.22	-0.00385	PASS
					-20	-1.56	-0.00186	PASS
					-10	-7	-0.00837	PASS
					0	-2.73	-0.00326	PASS
					10	-2.4	-0.00287	PASS
					20	-4.82	-0.00576	PASS
					30	-1.79	-0.00214	PASS
					40	-0.94	-0.00112	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	50	-2.09	-0.0025	PASS
					-30	-0.24	-0.00028	PASS
					-20	0.76	0.0009	PASS
					-10	0.4	0.00047	PASS
					0	-2.45	-0.00289	PASS
					10	-1.8	-0.00213	PASS
					20	-1.63	-0.00193	PASS
					30	-0.56	-0.00066	PASS
					40	-2.45	-0.00289	PASS
					50	-0.92	-0.00109	PASS
		10	LCH	VN	-30	-11.54	-0.01392	PASS
					-20	0.73	0.00088	PASS
					-10	-4.51	-0.00544	PASS
					0	-9.5	-0.01146	PASS
					10	-5.19	-0.00626	PASS
					20	11.6	0.01399	PASS
					30	-1.93	-0.00233	PASS
					40	-4.99	-0.00602	PASS
					50	-2.37	-0.00286	PASS
			MCH	VN	-30	-5.56	-0.00665	PASS
					-20	-4.31	-0.00515	PASS
					-10	-6.69	-0.008	PASS
					0	-2.53	-0.00302	PASS
					10	-0.54	-0.00065	PASS
					20	-6.29	-0.00752	PASS
					30	-7.14	-0.00854	PASS
					40	-3	-0.00359	PASS
					50	-2.6	-0.00311	PASS
			HCH	VN	-30	-0.84	-0.001	PASS
					-20	0.07	0.00008	PASS
					-10	-2.6	-0.00308	PASS
					0	0.13	0.00015	PASS
					10	-5.09	-0.00603	PASS
					20	-1.02	-0.00121	PASS
					30	-1.39	-0.00165	PASS
					40	-2.09	-0.00248	PASS
					50	-0.37	-0.00044	PASS
	LTE/TM2	1.4	LCH	VN	-30	-0.77	-0.00093	PASS
					-20	-1.16	-0.00141	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-1.97	-0.00239	PASS
					0	-1.42	-0.00172	PASS
					10	-1.33	-0.00161	PASS
					20	-1.43	-0.00173	PASS
					30	-1.2	-0.00146	PASS
					40	-1.87	-0.00227	PASS
					50	-1.75	-0.00212	PASS
			MCH	VN	-30	-1.99	-0.00238	PASS
					-20	-0.36	-0.00043	PASS
					-10	-0.43	-0.00051	PASS
					0	-0.2	-0.00024	PASS
					10	-0.87	-0.00104	PASS
					20	-1.32	-0.00158	PASS
					30	-1.62	-0.00194	PASS
					40	-0.23	-0.00027	PASS
					50	-1.82	-0.00218	PASS
			HCH	VN	-30	0.5	0.00059	PASS
					-20	-1.56	-0.00184	PASS
					-10	1.23	0.00145	PASS
					0	1.19	0.0014	PASS
					10	-1.97	-0.00232	PASS
					20	-4.25	-0.00501	PASS
					30	0.93	0.0011	PASS
					40	-3.43	-0.00404	PASS
					50	-7.38	-0.0087	PASS
		3	LCH	VN	-30	15.88	0.01924	PASS
					-20	15.94	0.01931	PASS
					-10	-0.8	-0.00097	PASS
					0	-0.96	-0.00116	PASS
					10	-0.51	-0.00062	PASS
					20	-0.3	-0.00036	PASS
					30	-0.07	-0.00008	PASS
					40	43.42	0.0526	PASS
					50	7.45	0.00902	PASS
			MCH	VN	-30	-0.56	-0.00067	PASS
					-20	-1.07	-0.00128	PASS
					-10	-1.27	-0.00152	PASS
					0	-2.32	-0.00277	PASS
					10	-1.32	-0.00158	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-1.37	-0.00164	PASS
					30	-0.64	-0.00077	PASS
					40	-1.4	-0.00167	PASS
					50	-0.24	-0.00029	PASS
			HCH	VN	-30	-1.77	-0.00209	PASS
					-20	-1.93	-0.00228	PASS
					-10	-2.9	-0.00342	PASS
					0	-1.12	-0.00132	PASS
					10	-0.59	-0.0007	PASS
					20	-1	-0.00118	PASS
					30	-0.4	-0.00047	PASS
					40	-1.5	-0.00177	PASS
					50	-1.03	-0.00122	PASS
		5	LCH	VN	-30	-4.12	-0.00498	PASS
					-20	-2.83	-0.00342	PASS
					-10	-6.21	-0.00751	PASS
					0	-14.61	-0.01768	PASS
					10	-6.81	-0.00824	PASS
					20	-0.69	-0.00083	PASS
					30	-4.19	-0.00507	PASS
					40	-6.42	-0.00777	PASS
					50	-3.39	-0.0041	PASS
			MCH	VN	-30	-2.39	-0.00286	PASS
					-20	-2.62	-0.00313	PASS
					-10	-2.07	-0.00247	PASS
					0	-2.85	-0.00341	PASS
					10	-2.03	-0.00243	PASS
					20	-2.05	-0.00245	PASS
					30	-3	-0.00359	PASS
					40	-2.26	-0.0027	PASS
					50	-3.03	-0.00362	PASS
			HCH	VN	-30	-1.16	-0.00137	PASS
					-20	-2.13	-0.00252	PASS
					-10	0.01	0.00001	PASS
					0	-0.16	-0.00019	PASS
					10	-0.87	-0.00103	PASS
					20	-0.13	-0.00015	PASS
					30	0	0	PASS
					40	-0.5	-0.00059	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10	LCH	VN	50	-0.03	-0.00004	PASS
					-30	0.51	0.00062	PASS
					-20	3.5	0.00422	PASS
					-10	6.09	0.00735	PASS
					0	4.11	0.00496	PASS
					10	-6.84	-0.00825	PASS
					20	-3.81	-0.0046	PASS
					30	-7.07	-0.00853	PASS
					40	-4.35	-0.00525	PASS
					50	-1.34	-0.00162	PASS
			MCH	VN	-30	-0.53	-0.00063	PASS
					-20	0.2	0.00024	PASS
					-10	-4.89	-0.00585	PASS
					0	-7.48	-0.00894	PASS
					10	-0.4	-0.00048	PASS
					20	-4.65	-0.00556	PASS
					30	-4.66	-0.00557	PASS
					40	-2.52	-0.00301	PASS
					50	-5.39	-0.00644	PASS
			HCH	VN	-30	-0.13	-0.00015	PASS
					-20	-0.16	-0.00019	PASS
					-10	-1.24	-0.00147	PASS
					0	-1.36	-0.00161	PASS
					10	-0.62	-0.00073	PASS
					20	-0.47	-0.00056	PASS
					30	-0.87	-0.00103	PASS
					40	-1.09	-0.00129	PASS
					50	-0.63	-0.00075	PASS

END