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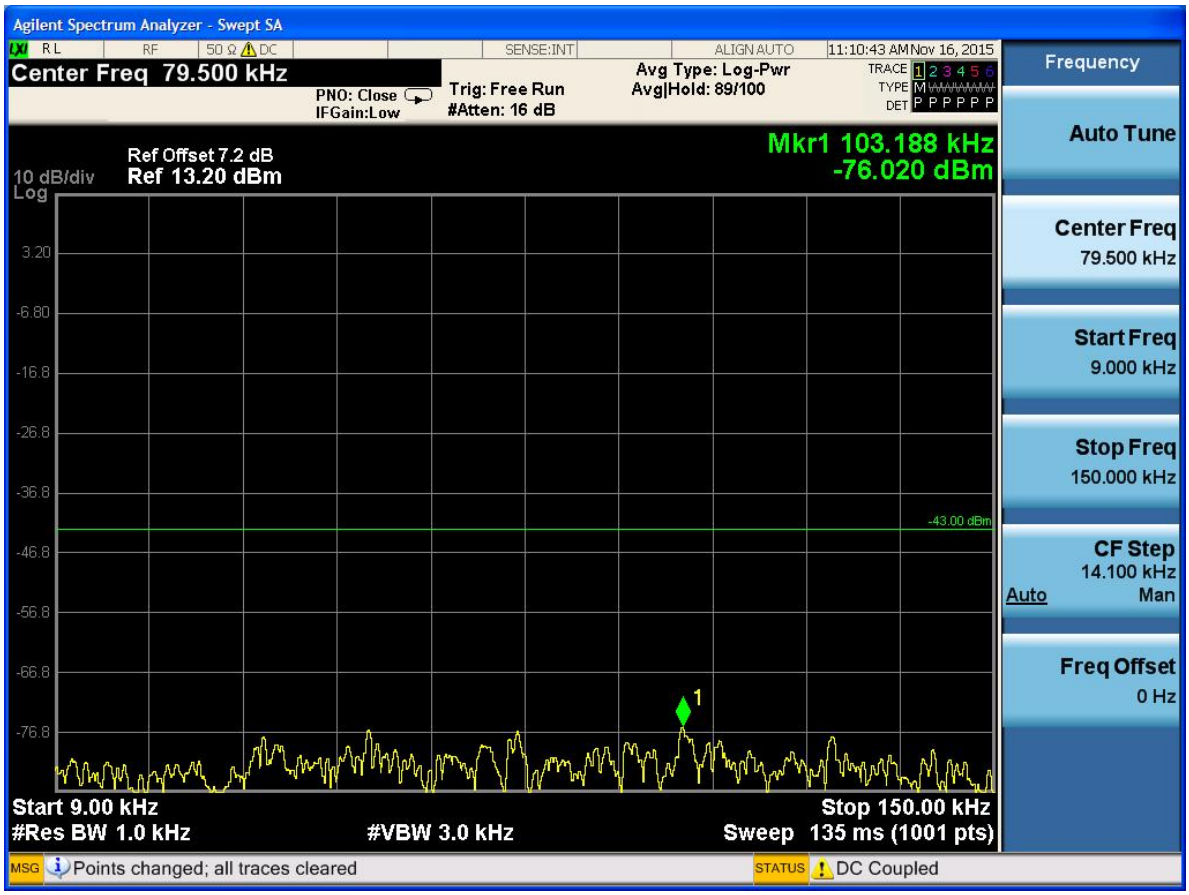
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



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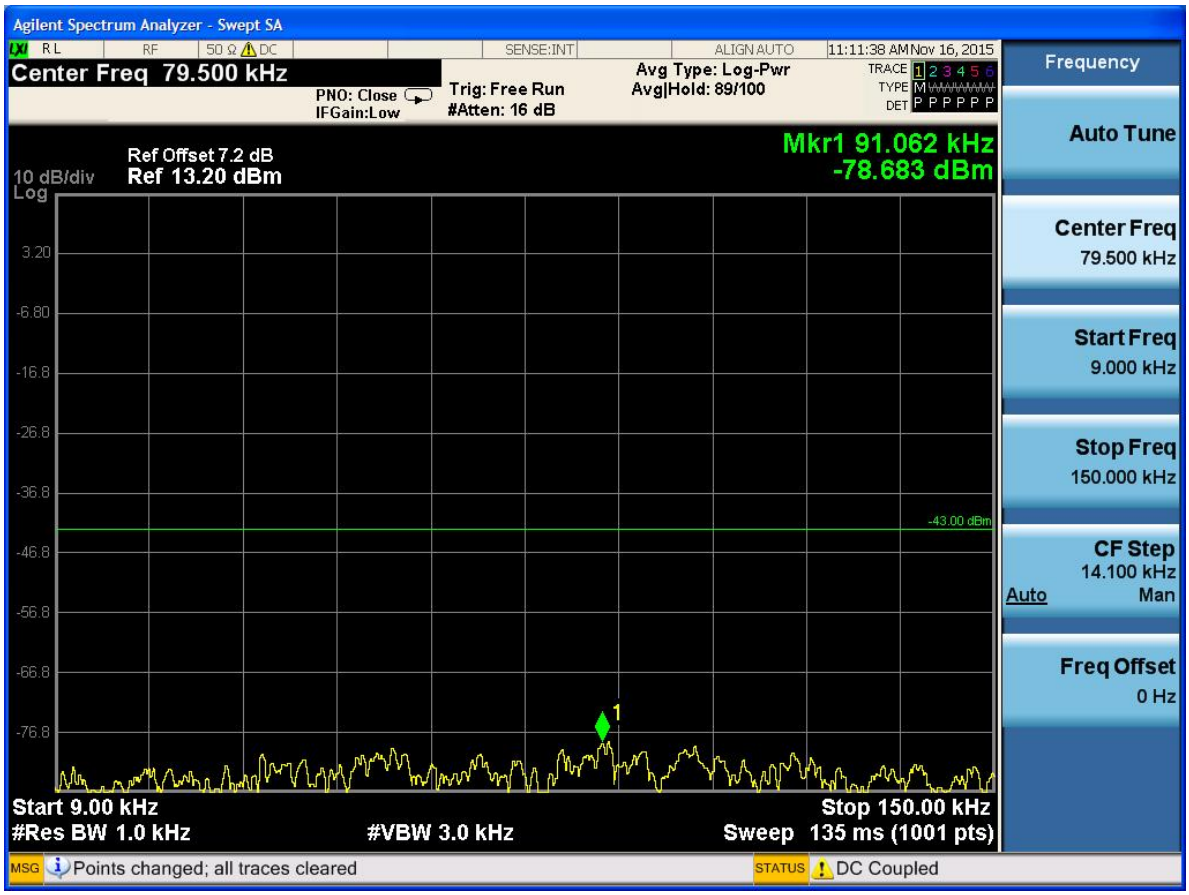
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



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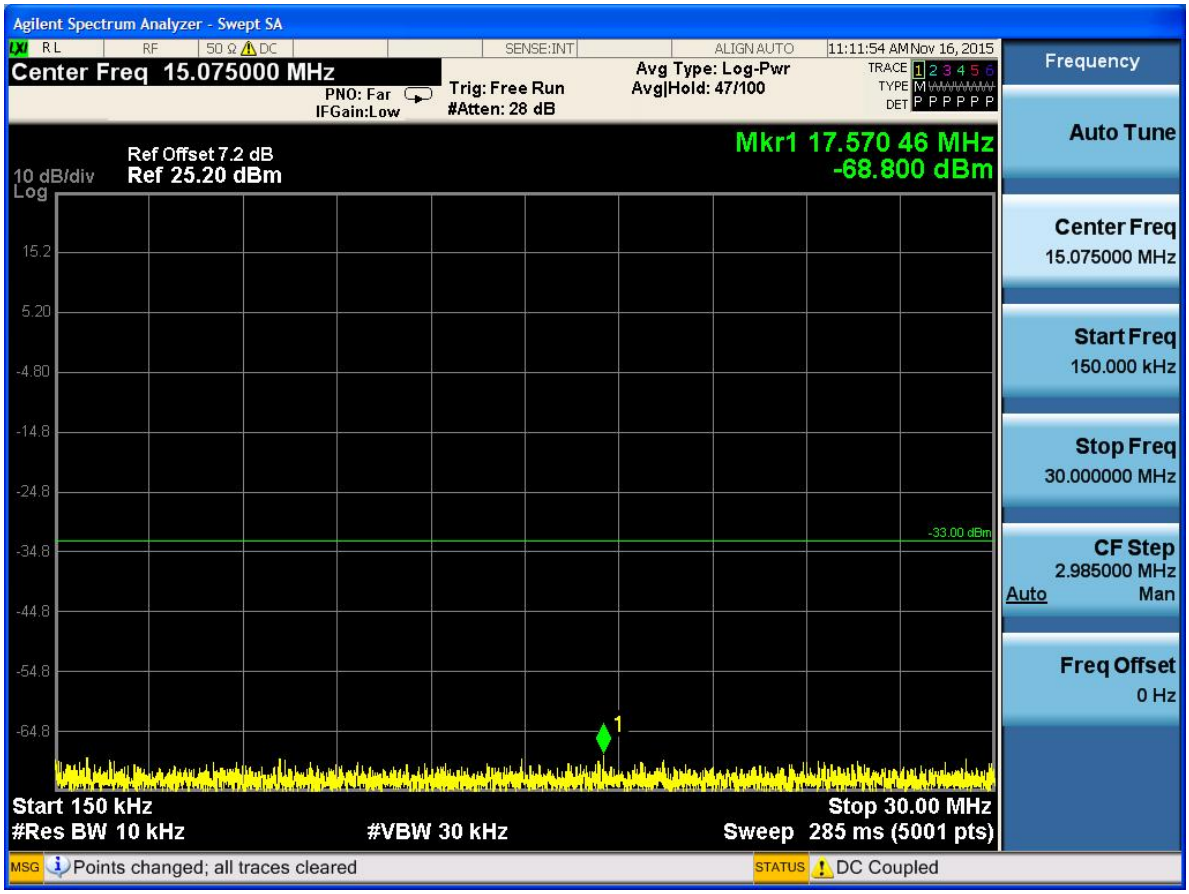

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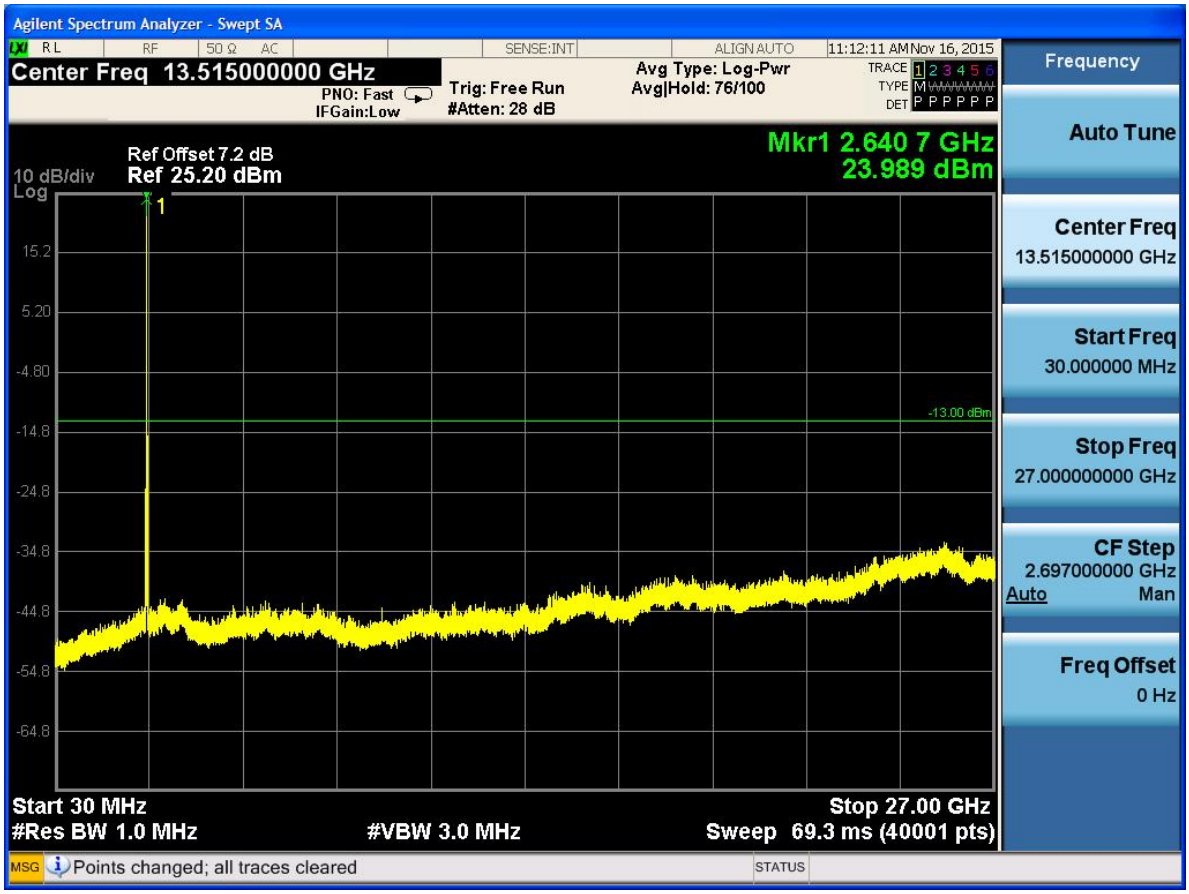

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6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

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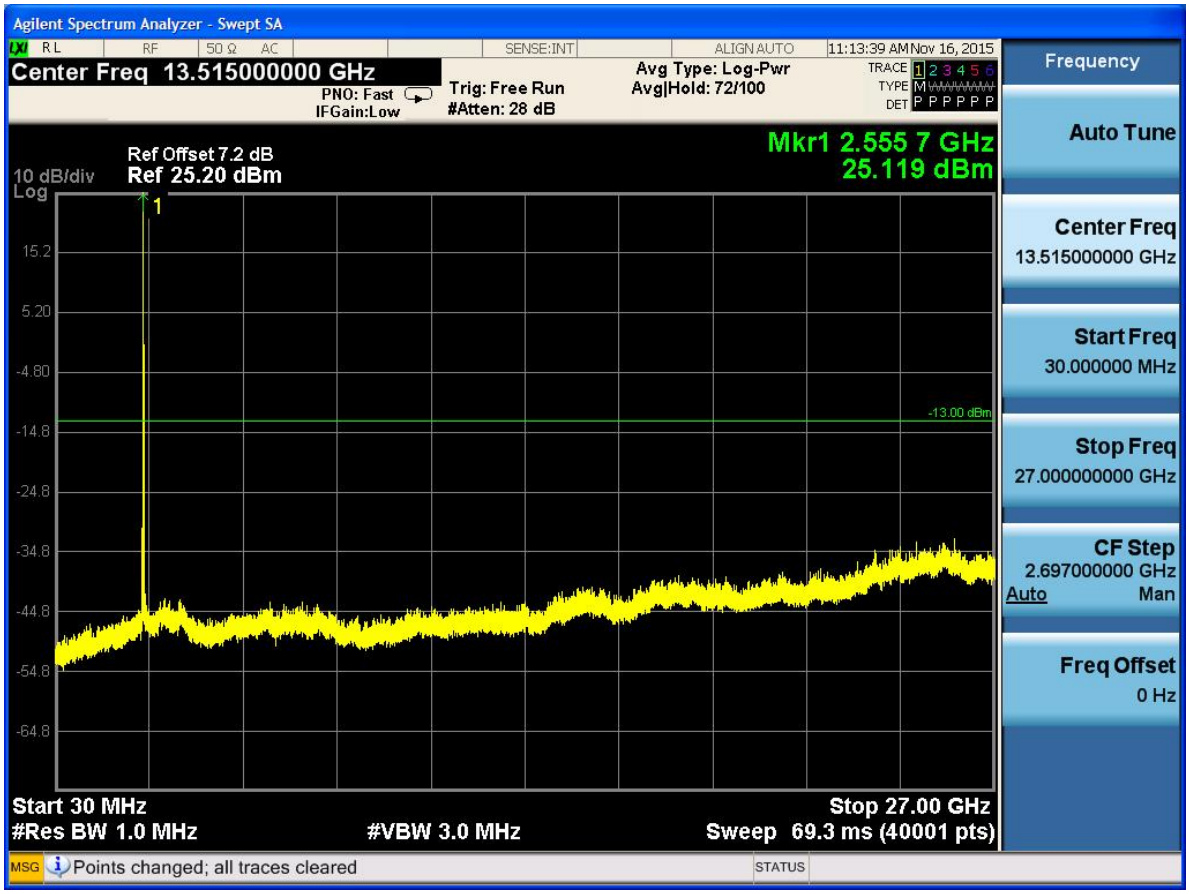

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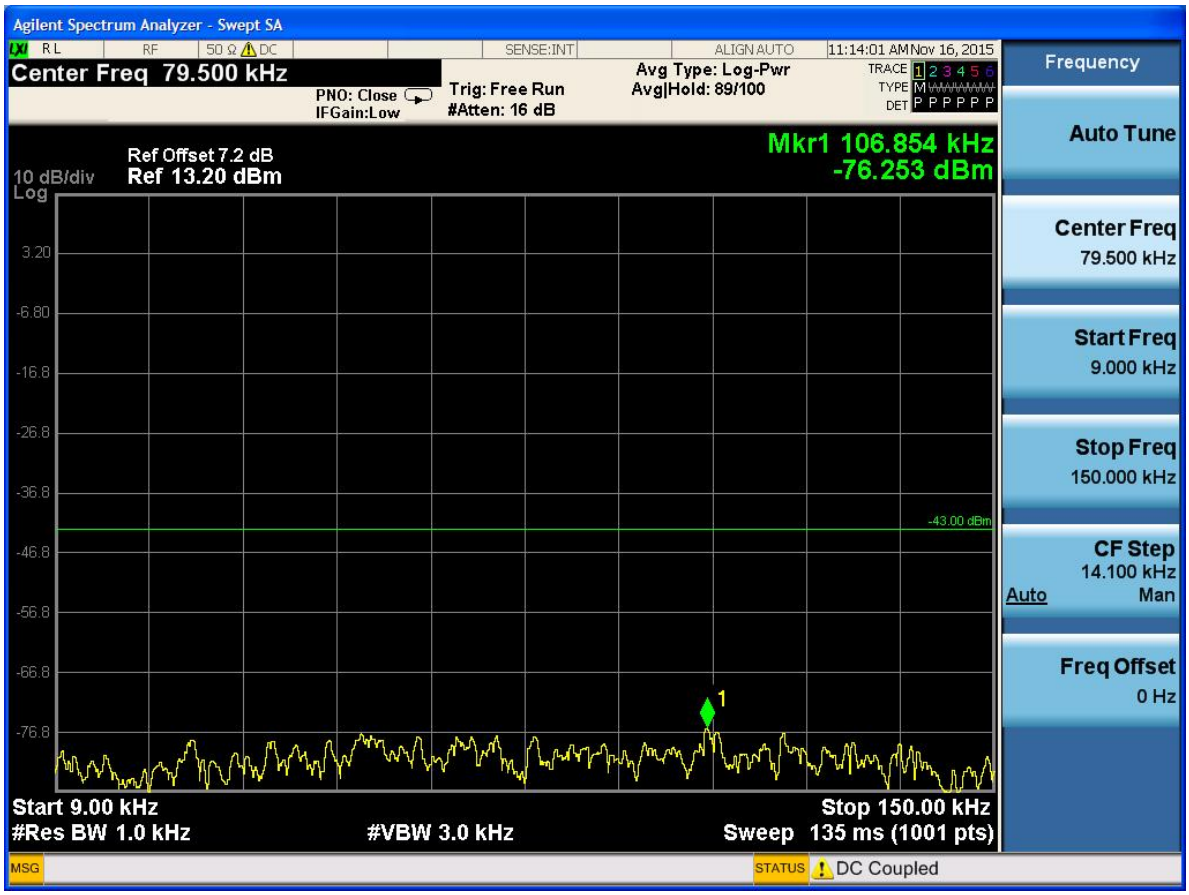
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



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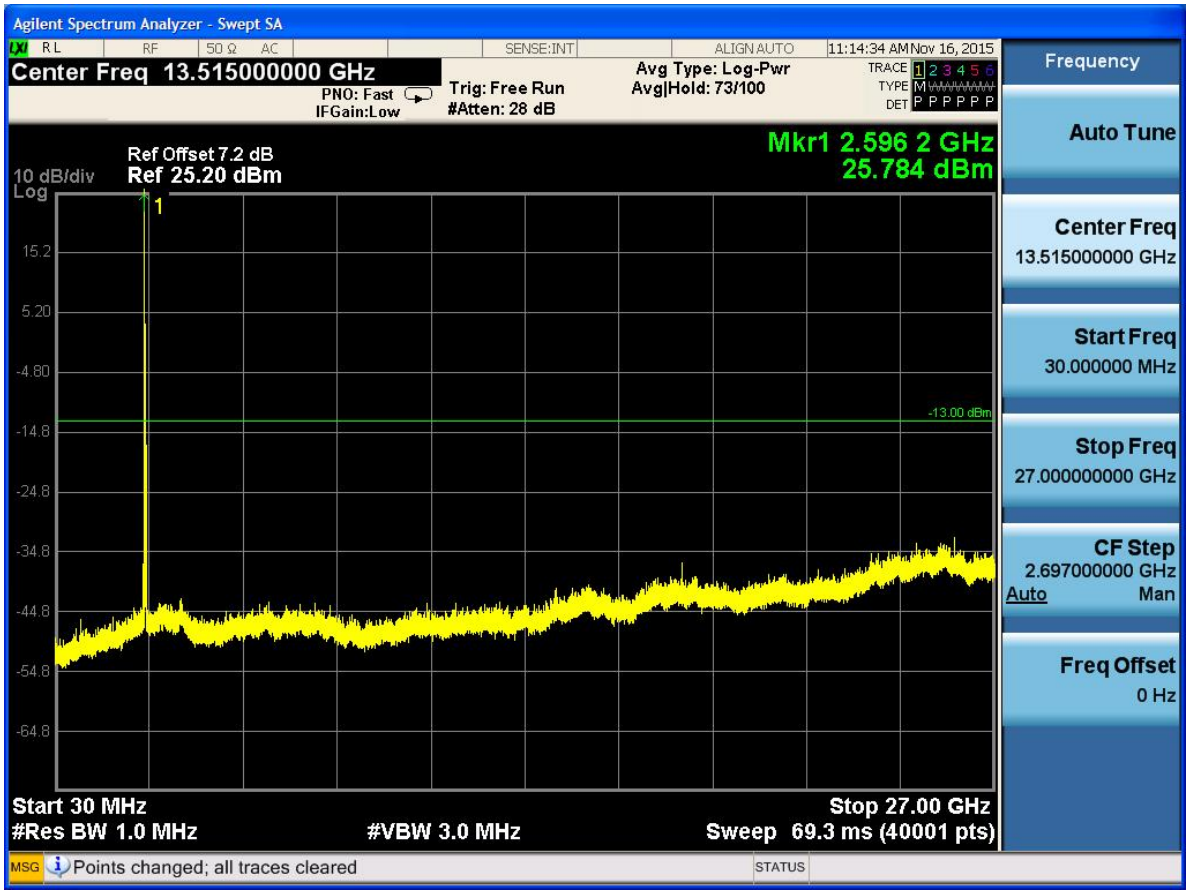

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6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0

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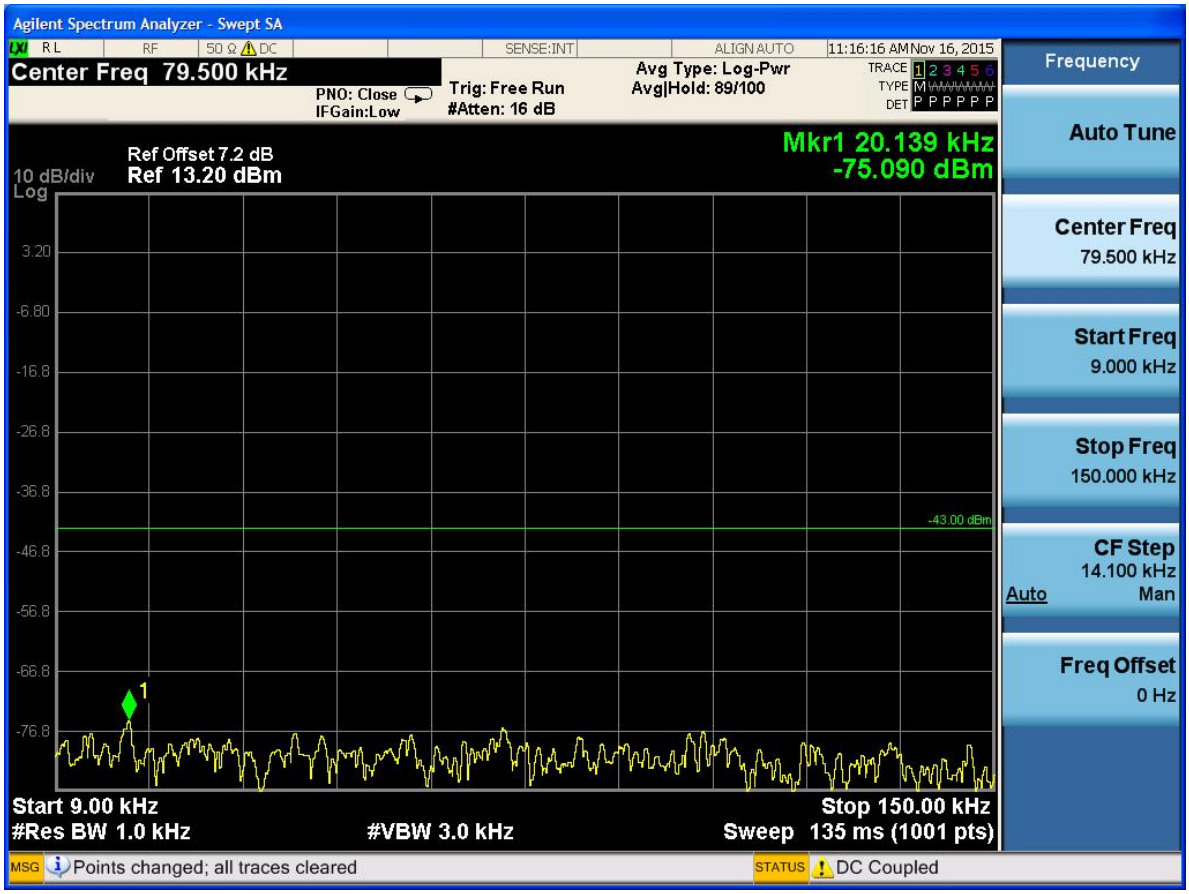
6.1.1.2 Test Mode = LTE/TM2

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



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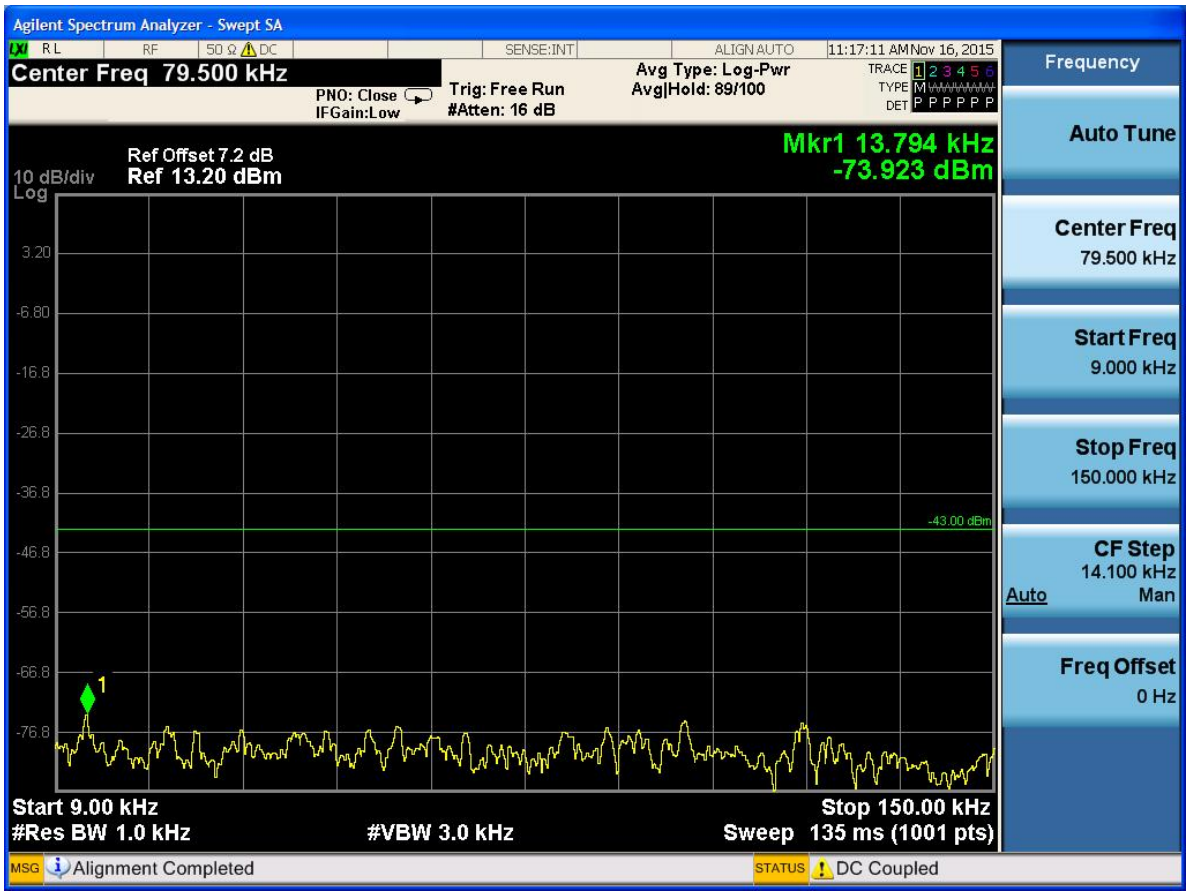
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



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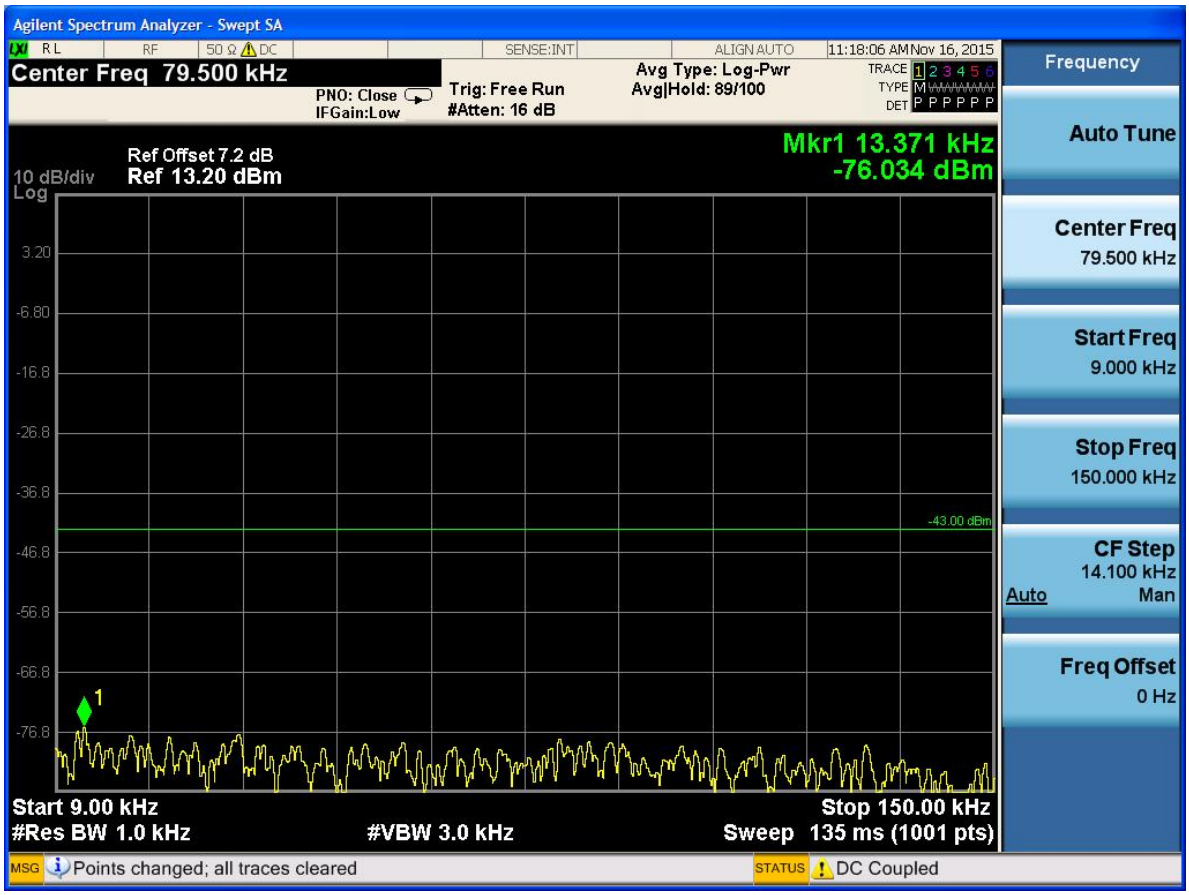
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



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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

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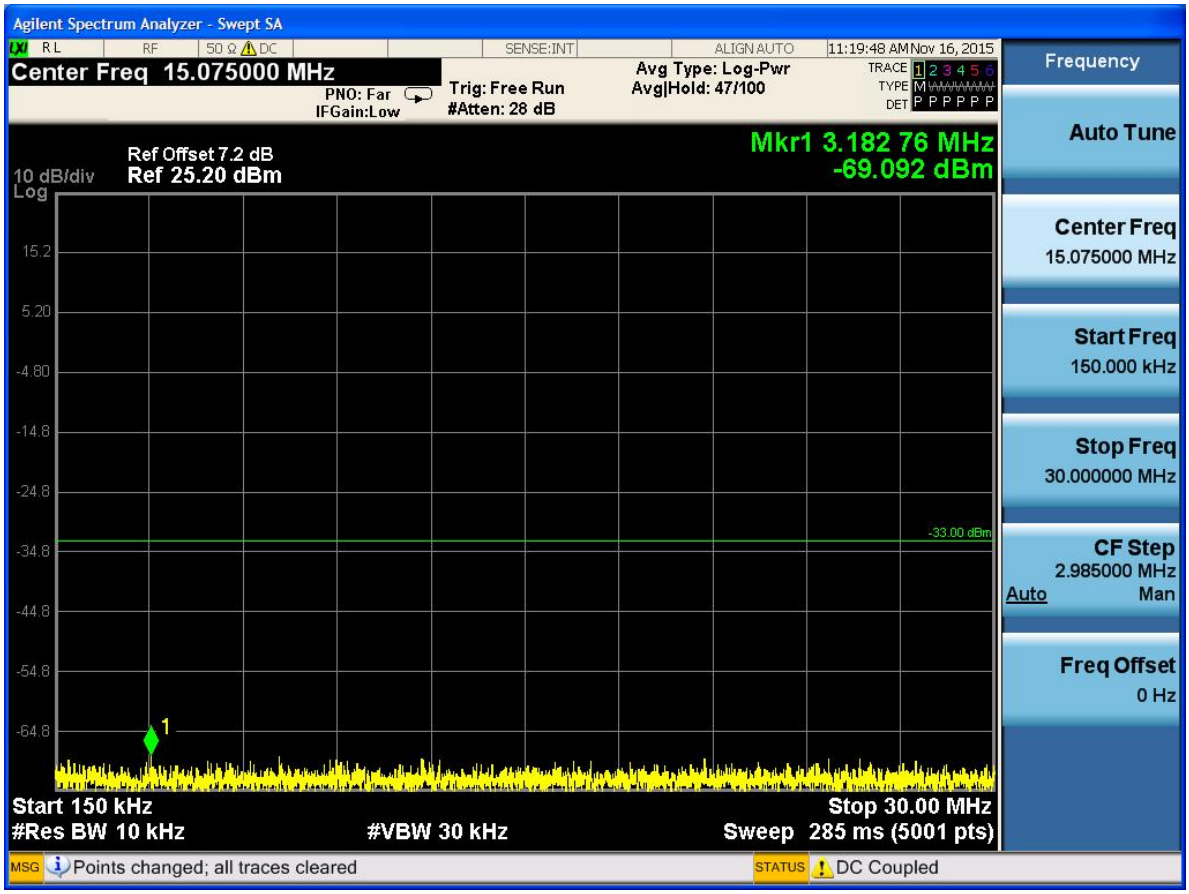

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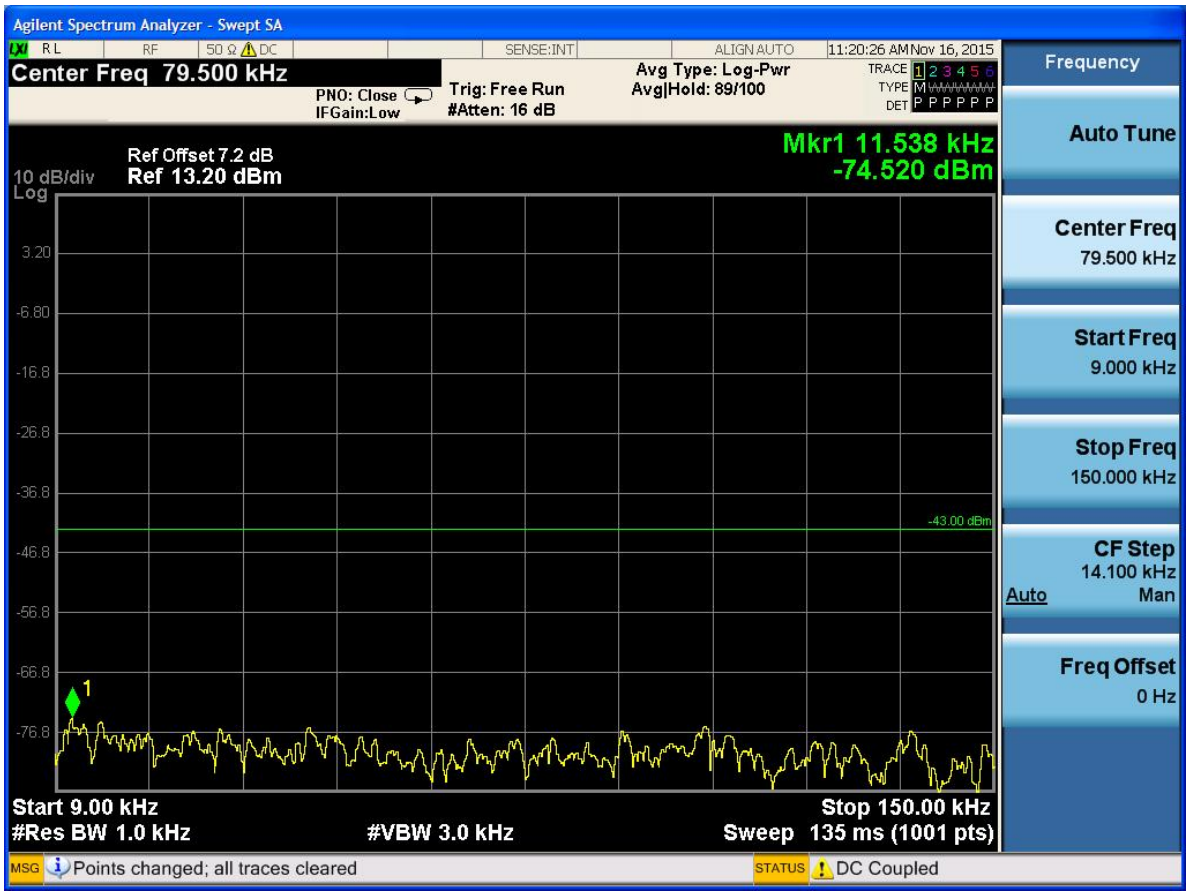
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



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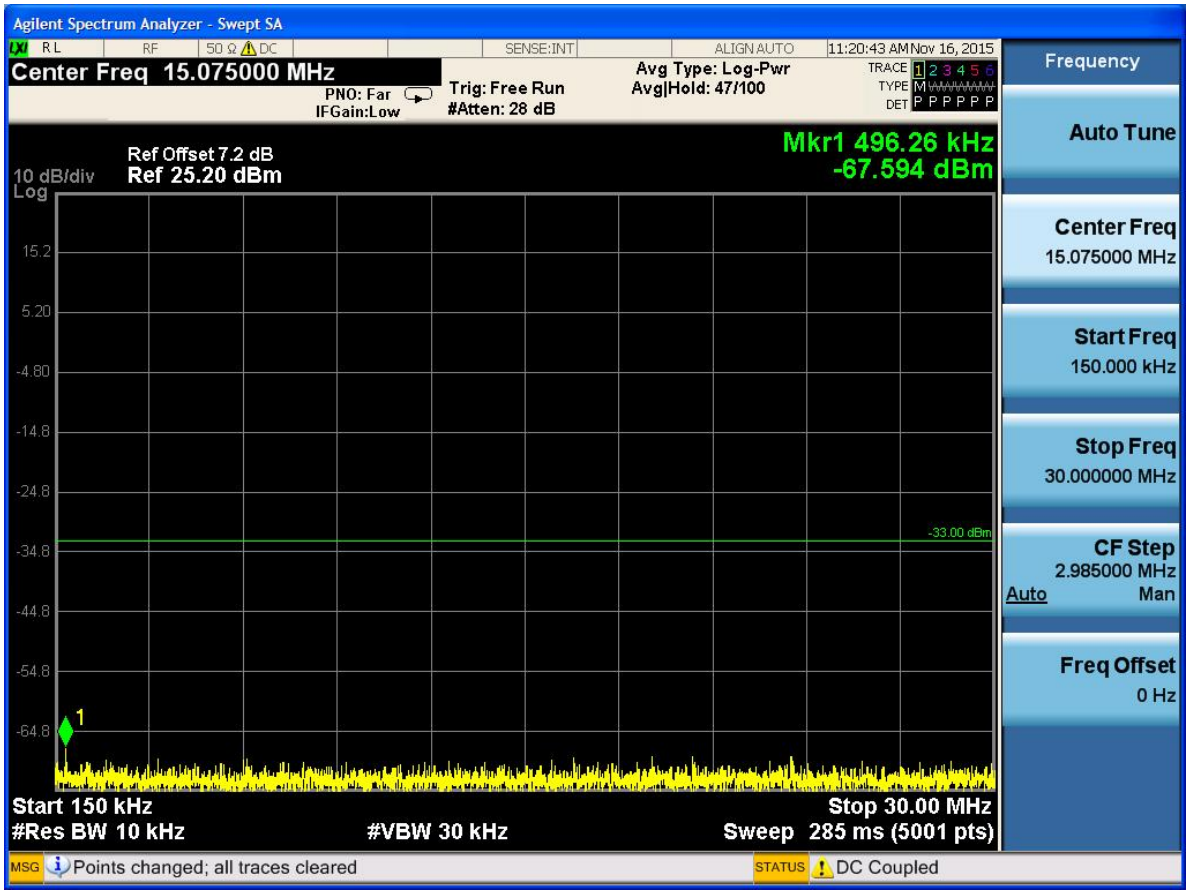

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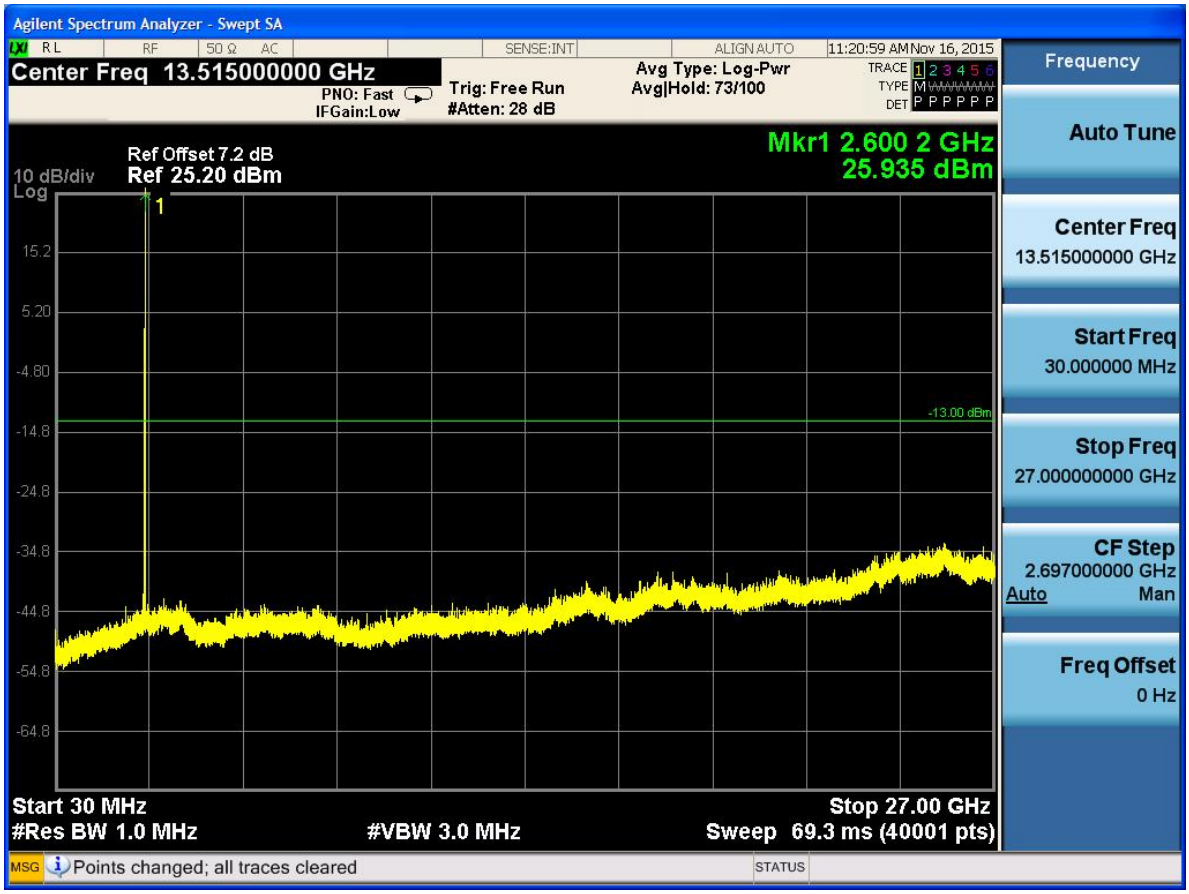

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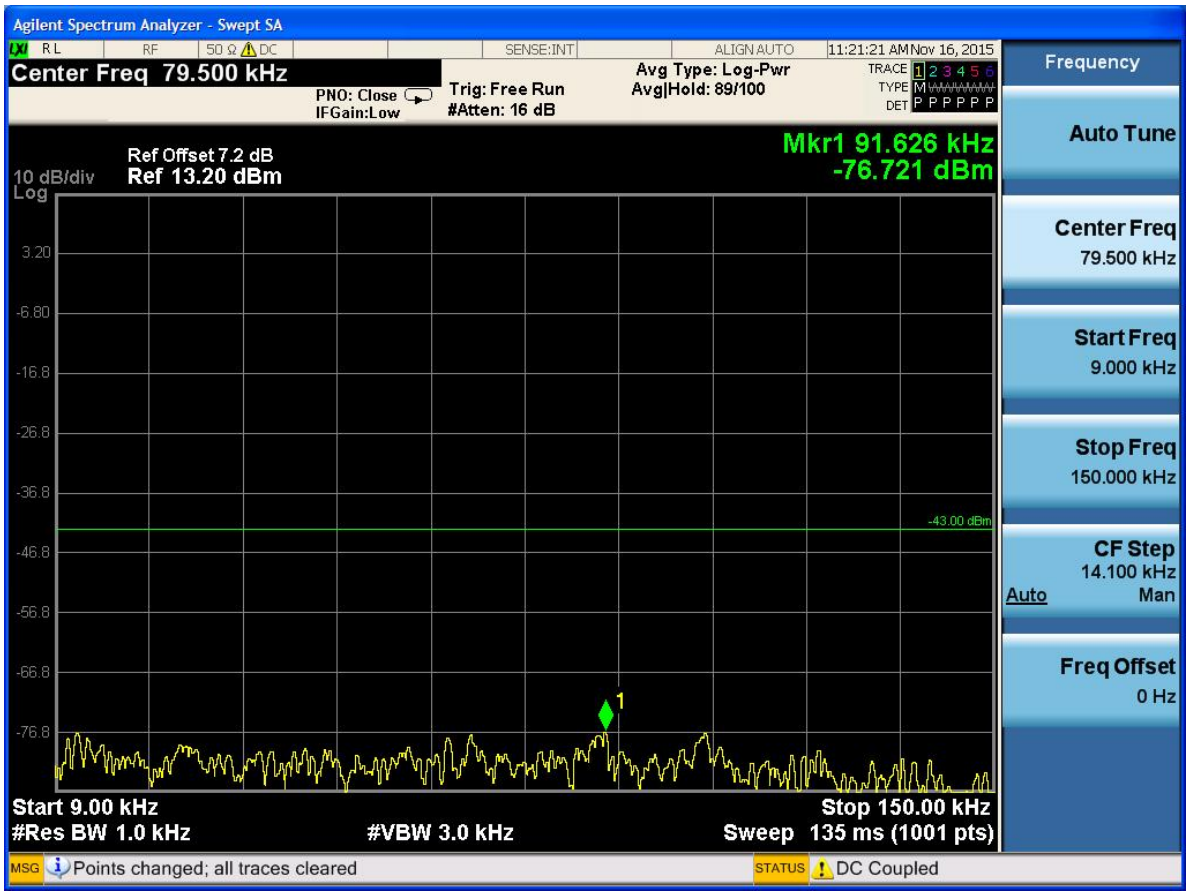
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



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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

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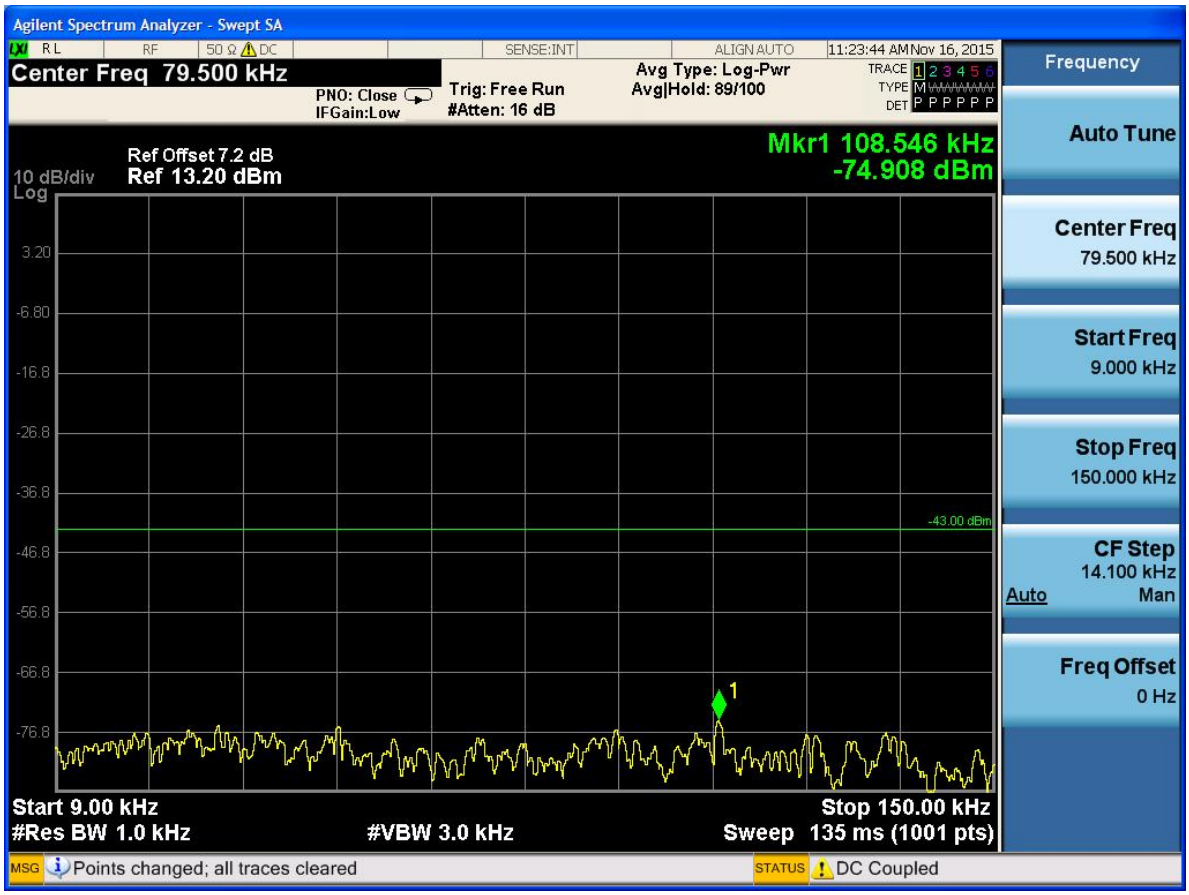
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



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6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0

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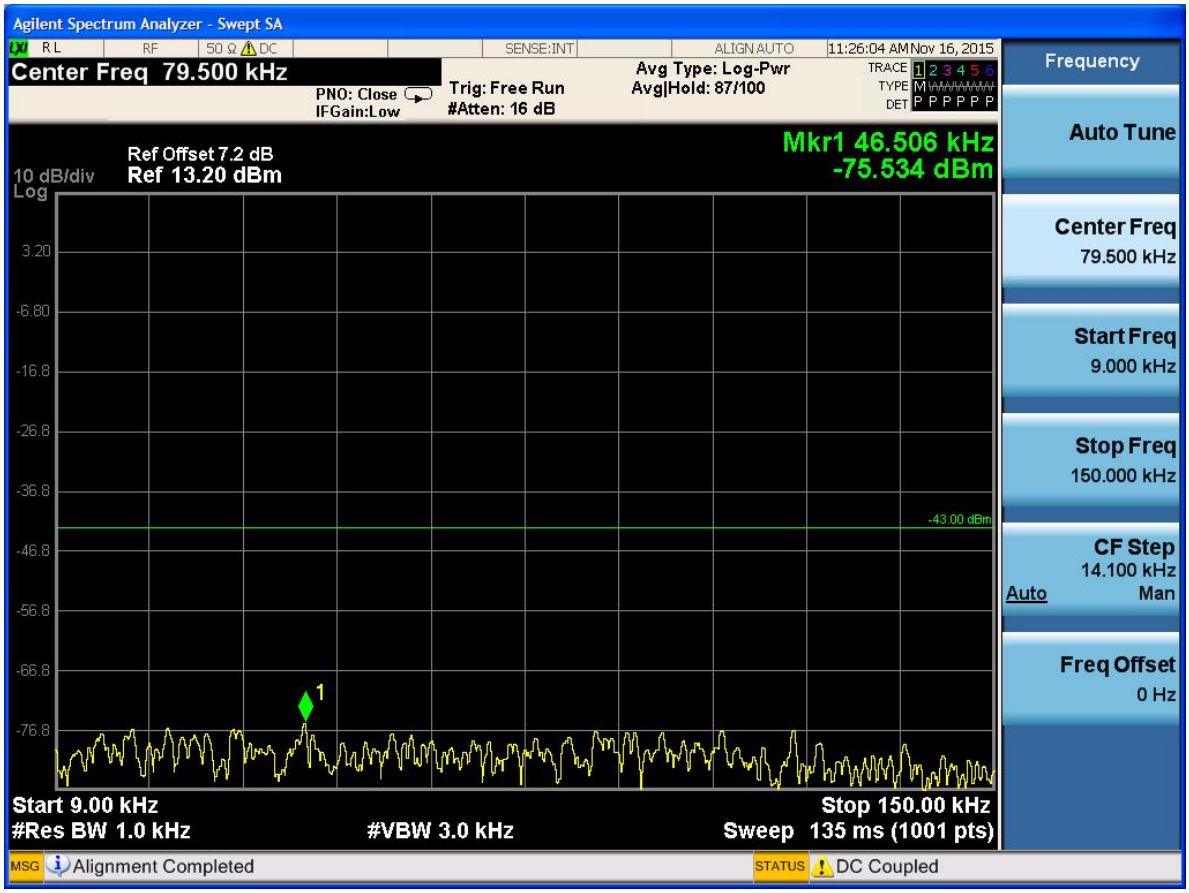
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



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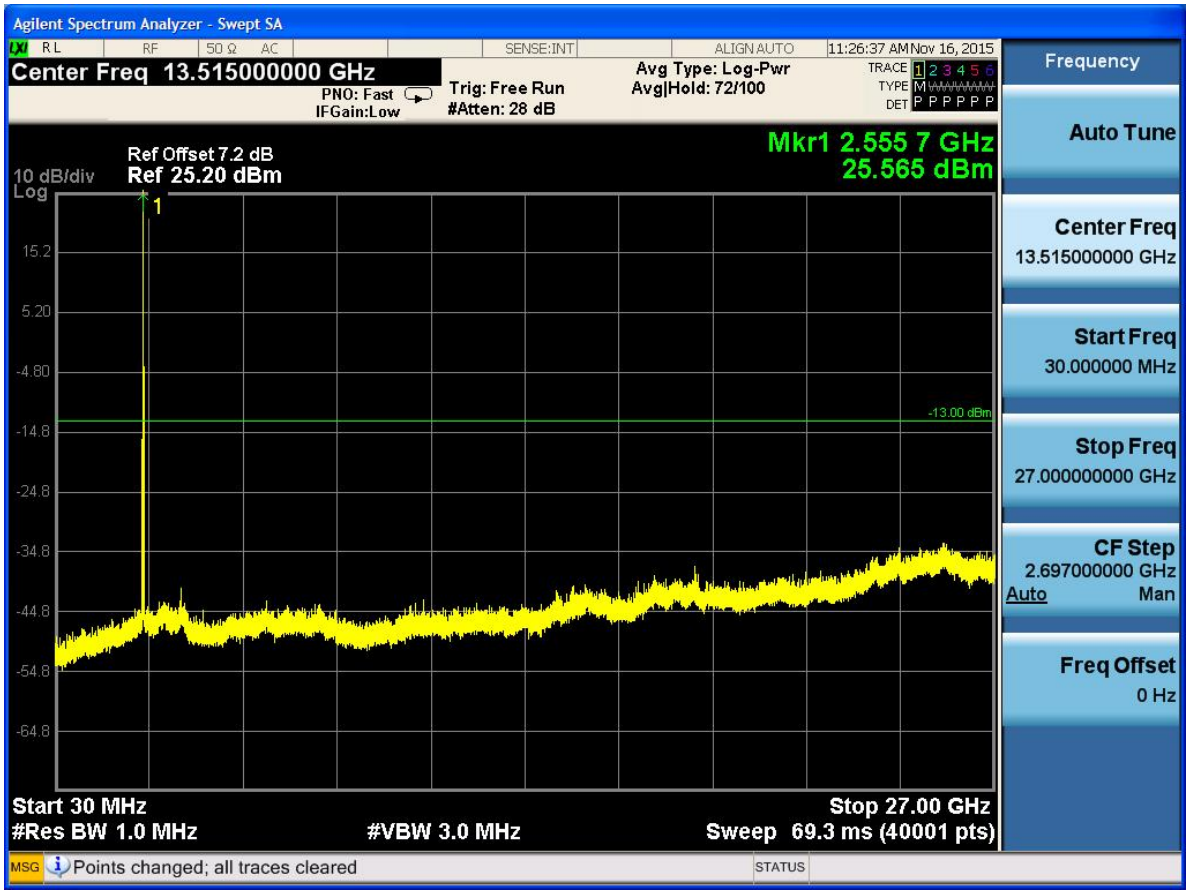

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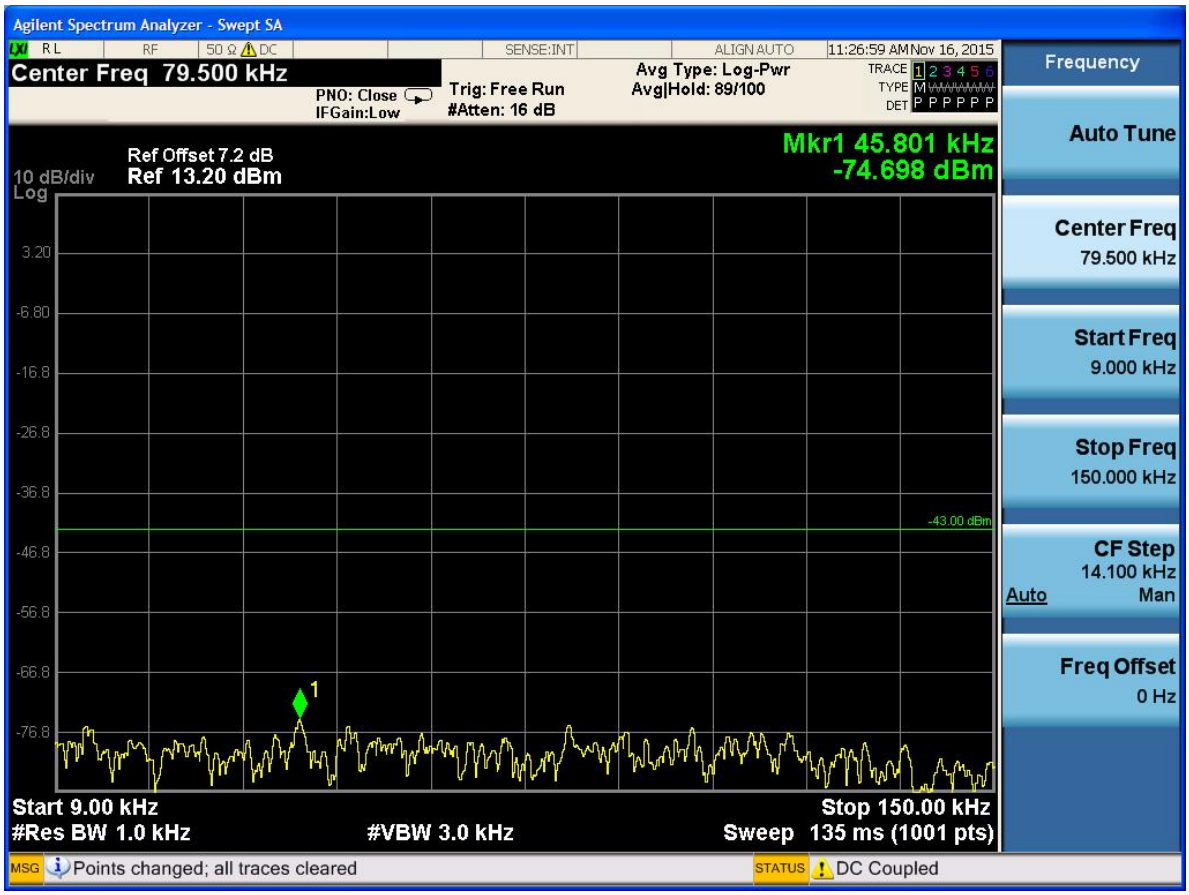
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



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6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0

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7Appendix_G: Field Strength of Spurious Radiation

Note:

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

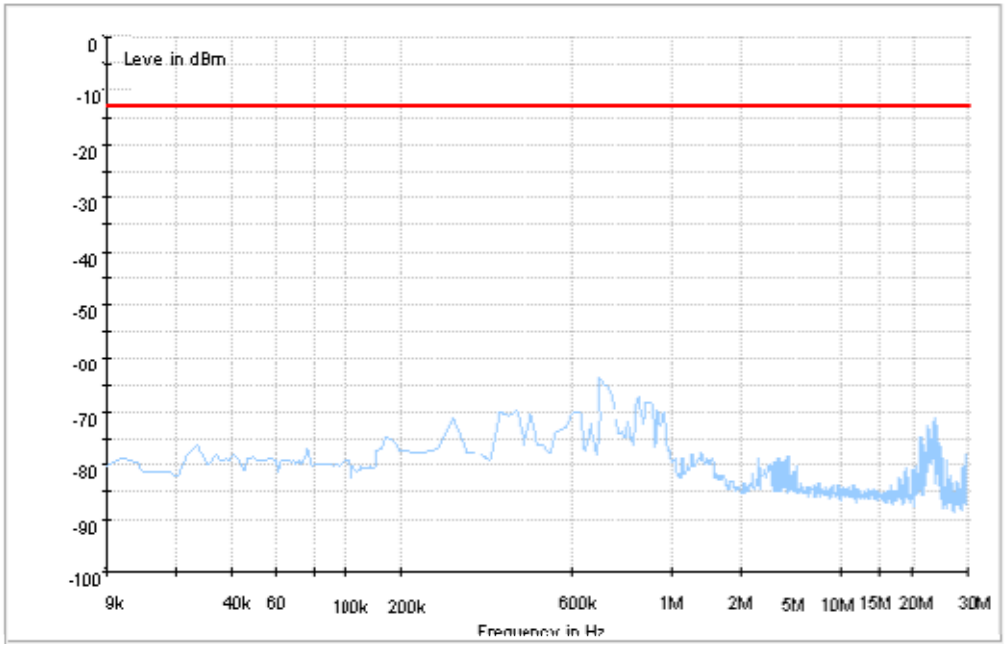
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND41

7.1.1.1 Test Bandwidth = 5



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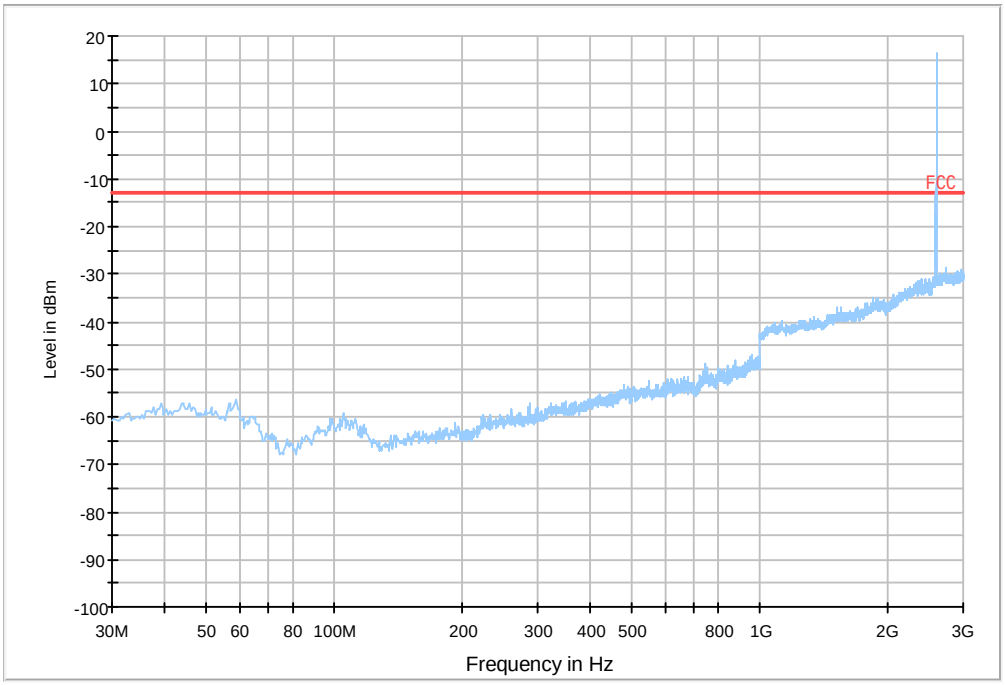
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



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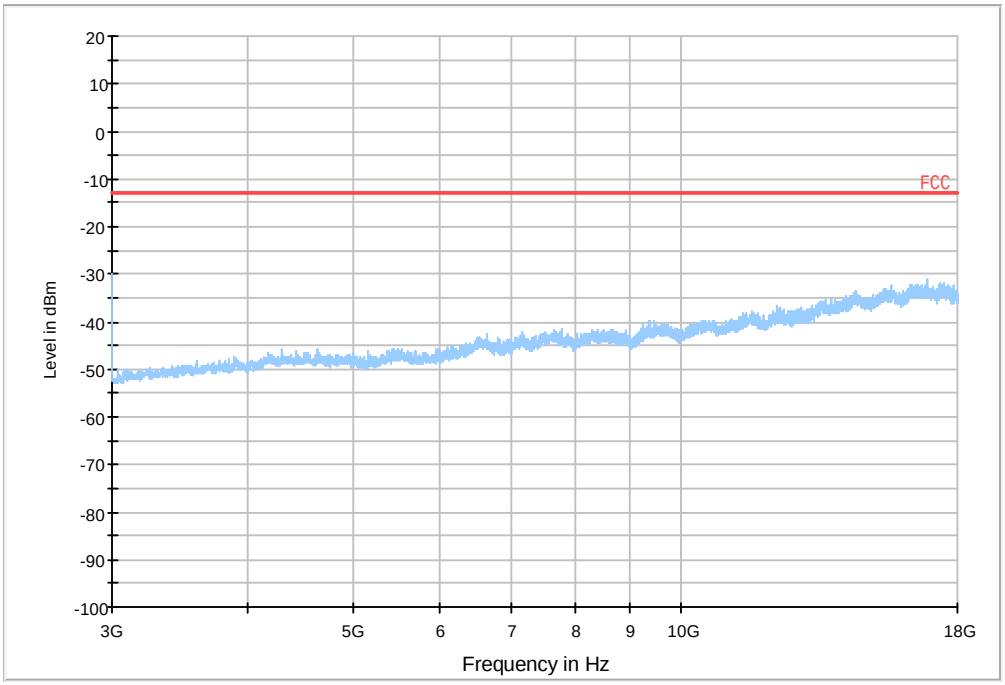

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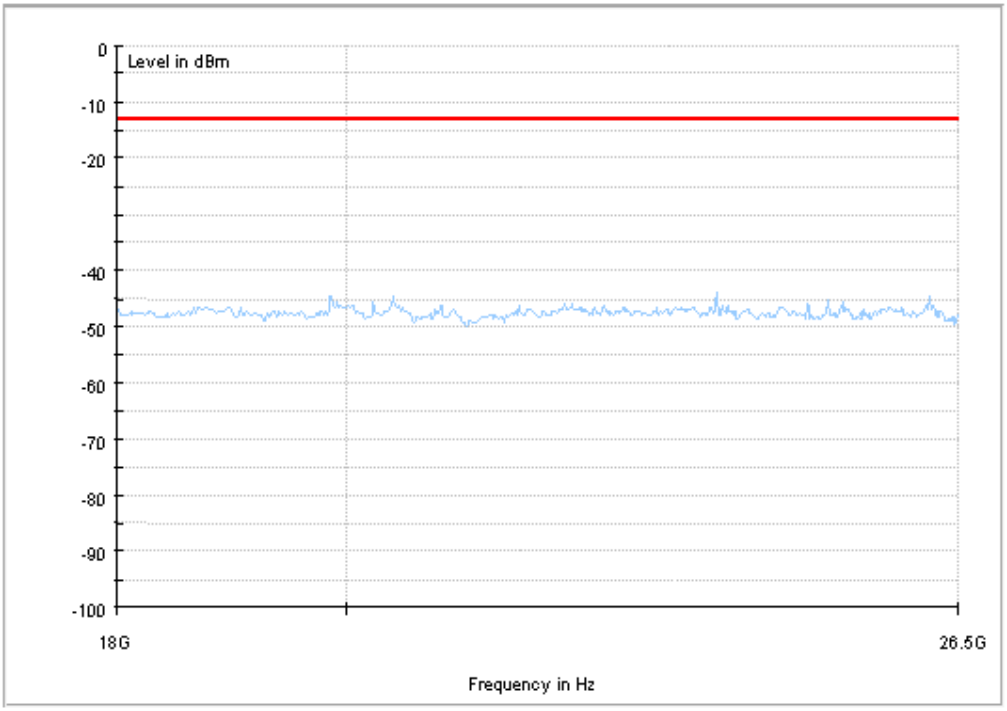

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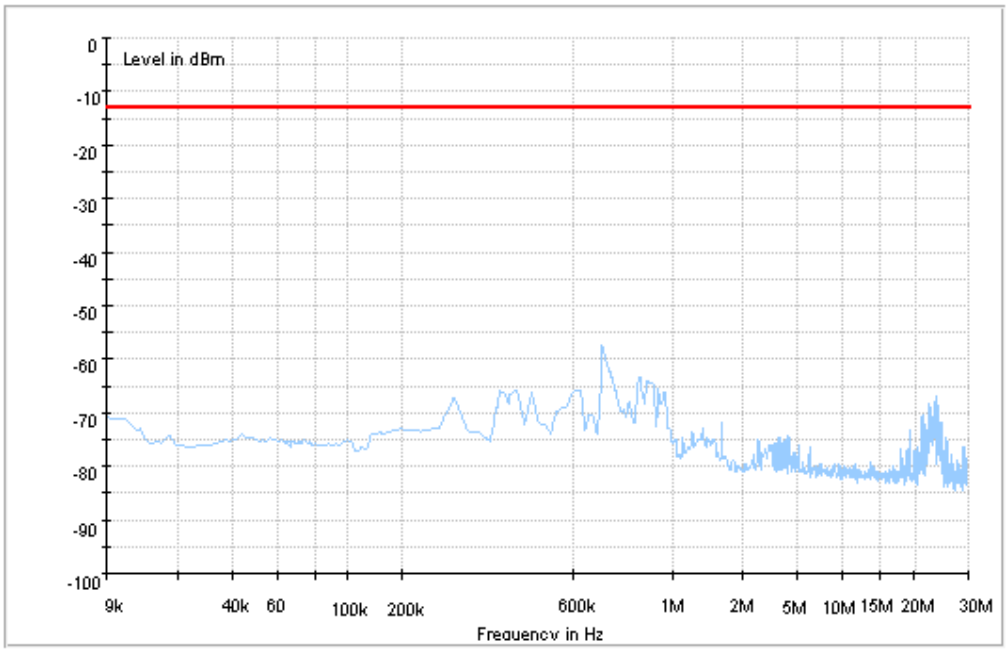
7.1.1.2 Test Bandwidth = 20



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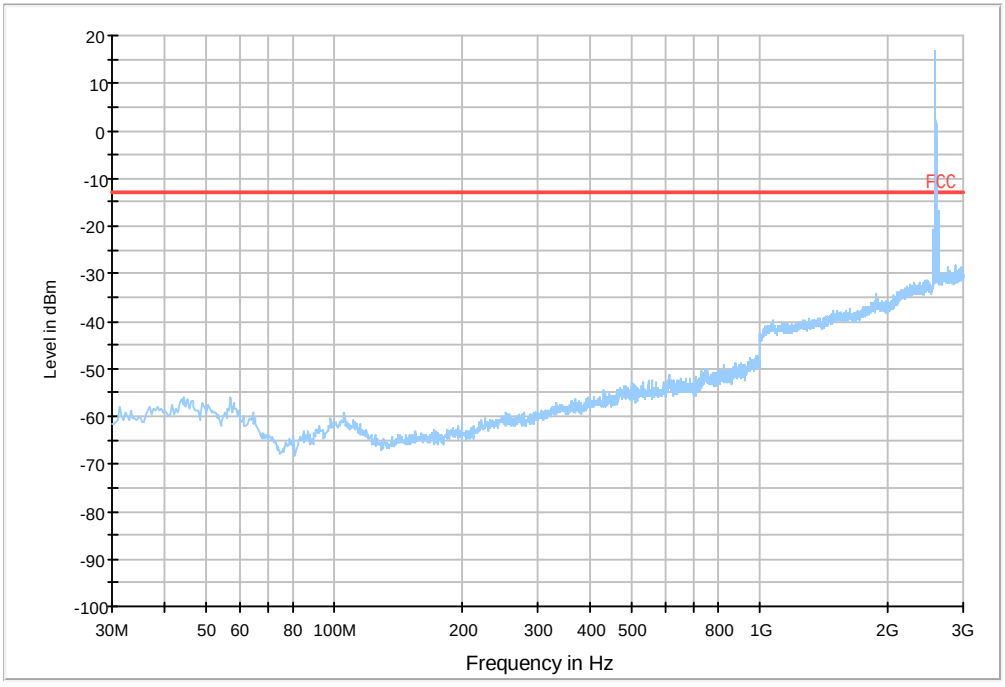

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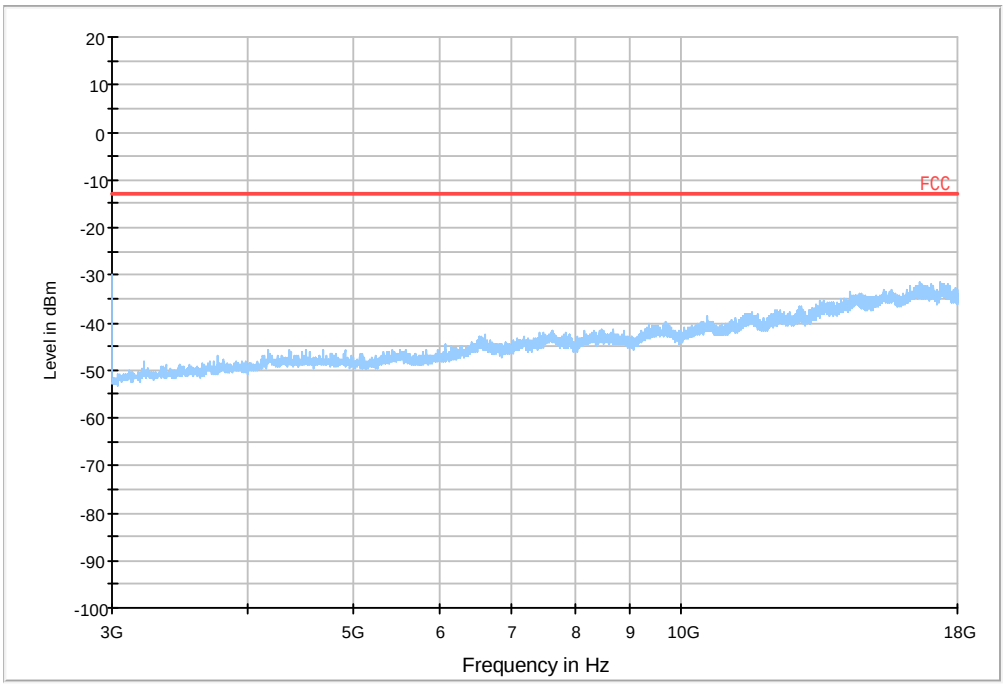
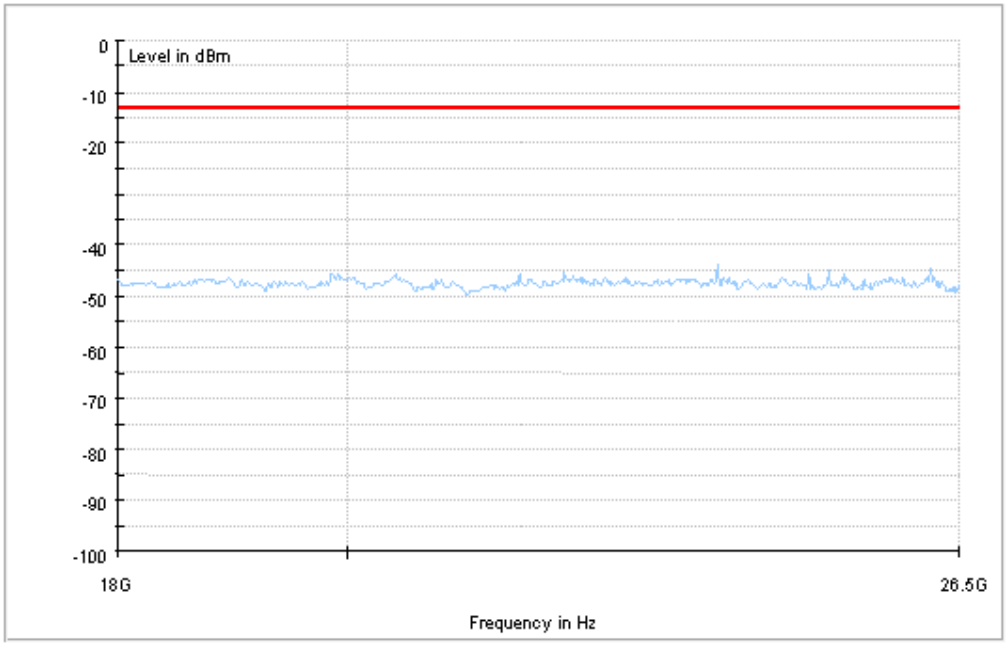
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H





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8Appendix_H: Frequency Stability

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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
BAND41	LTE/TM1	5	LCH	TN	VL	-40.8	-0.01595	PASS
					VN	-56.85	-0.02223	PASS
					VH	-59.44	-0.02324	PASS
			MCH	TN	VL	-52.61	-0.0202	PASS
					VN	-47.09	-0.01808	PASS
					VH	-44.98	-0.01727	PASS
			HCH	TN	VL	-8.35	-0.00315	PASS
					VN	-37.74	-0.01423	PASS
					VH	-26.76	-0.01009	PASS
		10	LCH	TN	VL	-18.84	-0.00736	PASS
					VN	-22.83	-0.00892	PASS
					VH	-9.88	-0.00386	PASS
			MCH	TN	VL	-6.18	-0.00237	PASS
					VN	-16.82	-0.00646	PASS
					VH	-8.47	-0.00325	PASS
			HCH	TN	VL	-7.38	-0.00278	PASS
					VN	-6.28	-0.00237	PASS
					VH	-2.83	-0.00107	PASS
		15	LCH	TN	VL	-2.96	-0.00116	PASS
					VN	-8.61	-0.00336	PASS
					VH	-6.09	-0.00238	PASS
			MCH	TN	VL	0.04	0.00002	PASS
					VN	-0.82	-0.00031	PASS
					VH	-4.55	-0.00175	PASS
			HCH	TN	VL	1.22	0.00046	PASS
					VN	5.78	0.00218	PASS
					VH	-4.85	-0.00183	PASS
		20	LCH	TN	VL	-4.03	-0.00157	PASS
					VN	1.19	0.00046	PASS
					VH	-9.24	-0.0036	PASS
			MCH	TN	VL	0.97	0.00037	PASS
					VN	3.28	0.00126	PASS
					VH	0.92	0.00035	PASS
			HCH	TN	VL	7.08	0.00268	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	8.15	0.00308	PASS
					VH	8.44	0.00319	PASS
	LTE/TM2	5	LCH	TN	VL	-18.31	-0.00716	PASS
					VN	2.5	0.00098	PASS
					VH	1.4	0.00055	PASS
			MCH	TN	VL	-45.33	-0.0174	PASS
					VN	-6.92	-0.00266	PASS
					VH	-16.98	-0.00652	PASS
			HCH	TN	VL	-36.74	-0.01385	PASS
					VN	-12.86	-0.00485	PASS
					VH	-35.31	-0.01331	PASS
		10	LCH	TN	VL	1.39	0.00054	PASS
					VN	-0.24	-0.00009	PASS
					VH	4.08	0.00159	PASS
			MCH	TN	VL	-7.6	-0.00292	PASS
					VN	-11.54	-0.00443	PASS
					VH	-10.03	-0.00385	PASS
			HCH	TN	VL	7.67	0.00289	PASS
					VN	11.62	0.00438	PASS
					VH	3.98	0.0015	PASS
		15	LCH	TN	VL	5.34	0.00208	PASS
					VN	-1.49	-0.00058	PASS
					VH	1.19	0.00046	PASS
			MCH	TN	VL	4.88	0.00187	PASS
					VN	1.1	0.00042	PASS
					VH	-1.86	-0.00071	PASS
			HCH	TN	VL	3.12	0.00118	PASS
					VN	2.43	0.00092	PASS
					VH	6.12	0.00231	PASS
		20	LCH	TN	VL	-3.3	-0.00129	PASS
					VN	-3.36	-0.00131	PASS
					VH	2.13	0.00083	PASS
			MCH	TN	VL	9.47	0.00364	PASS
					VN	3.71	0.00142	PASS
					VH	7.22	0.00277	PASS
			HCH	TN	VL	9.96	0.00377	PASS
					VN	15.75	0.00595	PASS
					VH	15.35	0.0058	PASS

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8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND41	LTE/TM1	5	LCH	VN	-30	29.45	0.01152	PASS
					-20	30.43	0.0119	PASS
					-10	13.06	0.00511	PASS
					0	4.38	0.00171	PASS
					10	33.65	0.01316	PASS
					20	31.31	0.01224	PASS
					30	4.72	0.00185	PASS
					40	-24.15	-0.00944	PASS
					50	1.46	0.00057	PASS
			MCH	VN	-30	0.09	0.00003	PASS
					-20	12.46	0.00478	PASS
					-10	13.95	0.00536	PASS
					0	-12.83	-0.00493	PASS
					10	15.21	0.00584	PASS
					20	-3.58	-0.00137	PASS
					30	2.4	0.00092	PASS
					40	21.57	0.00828	PASS
					50	20.94	0.00804	PASS
			HCH	VN	-30	37.42	0.01411	PASS
					-20	31.61	0.01192	PASS
					-10	-1.73	-0.00065	PASS
					0	-1.97	-0.00074	PASS
					10	38.51	0.01452	PASS
					20	3.58	0.00135	PASS
					30	11.52	0.00434	PASS
					40	17.61	0.00664	PASS
					50	-9.98	-0.00376	PASS
		10	LCH	VN	-30	-2.37	-0.00093	PASS
					-20	10.8	0.00422	PASS
					-10	5.58	0.00218	PASS
					0	8.96	0.0035	PASS
					10	6.18	0.00241	PASS
					20	1.16	0.00045	PASS
					30	-4.81	-0.00188	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-2.2	-0.00086	PASS
					50	0.19	0.00007	PASS
			MCH	VN	-30	1.16	0.00045	PASS
					-20	10.34	0.00397	PASS
					-10	13.72	0.00527	PASS
					0	-0.57	-0.00022	PASS
					10	-12.07	-0.00463	PASS
					20	2.66	0.00102	PASS
					30	2.03	0.00078	PASS
					40	5.34	0.00205	PASS
					50	3.16	0.00121	PASS
			HCH	VN	-30	8.11	0.00306	PASS
					-20	-4.72	-0.00178	PASS
					-10	4.78	0.0018	PASS
					0	-4.16	-0.00157	PASS
					10	10.09	0.00381	PASS
					20	8.94	0.00337	PASS
					30	10.43	0.00394	PASS
					40	7.27	0.00274	PASS
					50	9.63	0.00363	PASS
		15	LCH	VN	-30	2.56	0.001	PASS
					-20	1.92	0.00075	PASS
					-10	1.97	0.00077	PASS
					0	4.42	0.00172	PASS
					10	0.39	0.00015	PASS
					20	-2.46	-0.00096	PASS
					30	-0.1	-0.00004	PASS
					40	-1.76	-0.00069	PASS
					50	0.79	0.00031	PASS
			MCH	VN	-30	-2.42	-0.00093	PASS
					-20	0.2	0.00008	PASS
					-10	-1.86	-0.00071	PASS
					0	-0.04	-0.00002	PASS
					10	-3.32	-0.00127	PASS
					20	0.93	0.00036	PASS
					30	2.62	0.00101	PASS
					40	1.16	0.00045	PASS
					50	1.37	0.00053	PASS
			HCH	VN	-30	5.69	0.00215	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	5.87	0.00222	PASS
					-10	2.78	0.00105	PASS
					0	2.36	0.00089	PASS
					10	2.25	0.00085	PASS
					20	3.83	0.00145	PASS
					30	2.63	0.00099	PASS
					40	9.07	0.00343	PASS
					50	5.84	0.00221	PASS
		20	LCH	VN	-30	-2.09	-0.00081	PASS
					-20	-2.9	-0.00113	PASS
					-10	-4.36	-0.0017	PASS
					0	-5.14	-0.002	PASS
					10	-5.48	-0.00214	PASS
					20	-6.81	-0.00265	PASS
					30	-2.78	-0.00108	PASS
					40	-4.72	-0.00184	PASS
					50	-1.75	-0.00068	PASS
			MCH	VN	-30	-1.32	-0.00051	PASS
					-20	-1.65	-0.00063	PASS
					-10	2.12	0.00081	PASS
					0	2.6	0.001	PASS
					10	-0.07	-0.00003	PASS
					20	4.59	0.00176	PASS
					30	1.65	0.00063	PASS
					40	1.75	0.00067	PASS
					50	5.85	0.00225	PASS
			HCH	VN	-30	10.97	0.00415	PASS
					-20	15.39	0.00582	PASS
					-10	11.6	0.00439	PASS
					0	15.66	0.00592	PASS
					10	13.79	0.00521	PASS
					20	11.32	0.00428	PASS
					30	14.79	0.00559	PASS
					40	12.99	0.00491	PASS
					50	20.27	0.00766	PASS
	LTE/TM2	5	LCH	VN	-30	18.14	0.00709	PASS
					-20	34.68	0.01356	PASS
					-10	10.47	0.00409	PASS
					0	15.51	0.00606	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	38.51	0.01506	PASS
					20	40.14	0.0157	PASS
					30	4.15	0.00162	PASS
					40	8.61	0.00337	PASS
					50	34.42	0.01346	PASS
			MCH	VN	-30	21.13	0.00811	PASS
					-20	26.91	0.01033	PASS
					-10	20.56	0.00789	PASS
					0	21.93	0.00842	PASS
					10	32.1	0.01232	PASS
					20	12.02	0.00461	PASS
					30	-2.1	-0.00081	PASS
					40	29.48	0.01132	PASS
					50	14.83	0.00569	PASS
			HCH	VN	-30	45.38	0.01711	PASS
					-20	26.41	0.00996	PASS
					-10	19.17	0.00723	PASS
					0	9.77	0.00368	PASS
					10	23.26	0.00877	PASS
					20	22.85	0.00861	PASS
					30	34.88	0.01315	PASS
					40	40.05	0.0151	PASS
					50	28.17	0.01062	PASS
		10	LCH	VN	-30	22.43	0.00876	PASS
					-20	17.01	0.00664	PASS
					-10	23.79	0.00929	PASS
					0	14.23	0.00556	PASS
					10	21.09	0.00824	PASS
					20	6.47	0.00253	PASS
					30	9.07	0.00354	PASS
					40	8.44	0.0033	PASS
					50	14.25	0.00557	PASS
			MCH	VN	-30	2.68	0.00103	PASS
					-20	9.97	0.00383	PASS
					-10	9	0.00345	PASS
					0	12.1	0.00464	PASS
					10	8.65	0.00332	PASS
					20	9.34	0.00359	PASS
					30	12.26	0.00471	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	9.44	0.00362	PASS
					50	8.75	0.00336	PASS
			HCH	VN	-30	10.7	0.00404	PASS
					-20	11.96	0.00451	PASS
					-10	10.16	0.00383	PASS
					0	9.23	0.00348	PASS
					10	20.4	0.0077	PASS
					20	17.74	0.00669	PASS
					30	12.95	0.00489	PASS
					40	3.43	0.00129	PASS
					50	17.8	0.00672	PASS
		15	LCH	VN	-30	6.92	0.0027	PASS
					-20	6.62	0.00258	PASS
					-10	9.86	0.00385	PASS
					0	7.3	0.00285	PASS
					10	2.6	0.00101	PASS
					20	6.75	0.00263	PASS
					30	-1.13	-0.00044	PASS
					40	2.19	0.00085	PASS
					50	7.37	0.00288	PASS
			MCH	VN	-30	4.52	0.00174	PASS
					-20	2.47	0.00095	PASS
					-10	4.31	0.00165	PASS
					0	0.97	0.00037	PASS
					10	7.6	0.00292	PASS
					20	2.26	0.00087	PASS
					30	5.31	0.00204	PASS
					40	6.35	0.00244	PASS
					50	6.29	0.00241	PASS
			HCH	VN	-30	7.82	0.00295	PASS
					-20	7.52	0.00284	PASS
					-10	7.78	0.00294	PASS
					0	4.56	0.00172	PASS
					10	10.8	0.00408	PASS
					20	5.22	0.00197	PASS
					30	0.09	0.00003	PASS
					40	9.07	0.00343	PASS
					50	7.27	0.00275	PASS
		20	LCH	VN	-30	0.93	0.00036	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	3.52	0.00137	PASS
					-10	4.36	0.0017	PASS
					0	2	0.00078	PASS
					10	0.47	0.00018	PASS
					20	-1.69	-0.00066	PASS
					30	-0.56	-0.00022	PASS
					40	-3.35	-0.00131	PASS
					50	-2.45	-0.00096	PASS
			MCH	VN	-30	3.45	0.00132	PASS
					-20	4.73	0.00182	PASS
					-10	4.96	0.0019	PASS
					0	3.99	0.00153	PASS
					10	4.38	0.00168	PASS
					20	5.19	0.00199	PASS
					30	5.08	0.00195	PASS
					40	4.71	0.00181	PASS
					50	8.14	0.00312	PASS
			HCH	VN	-30	13.86	0.00524	PASS
					-20	13.2	0.00499	PASS
					-10	14.35	0.00543	PASS
					0	17.54	0.00663	PASS
					10	13.25	0.00501	PASS
					20	10.07	0.00381	PASS
					30	9.21	0.00348	PASS
					40	6.85	0.00259	PASS
					50	16.52	0.00625	PASS

END

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