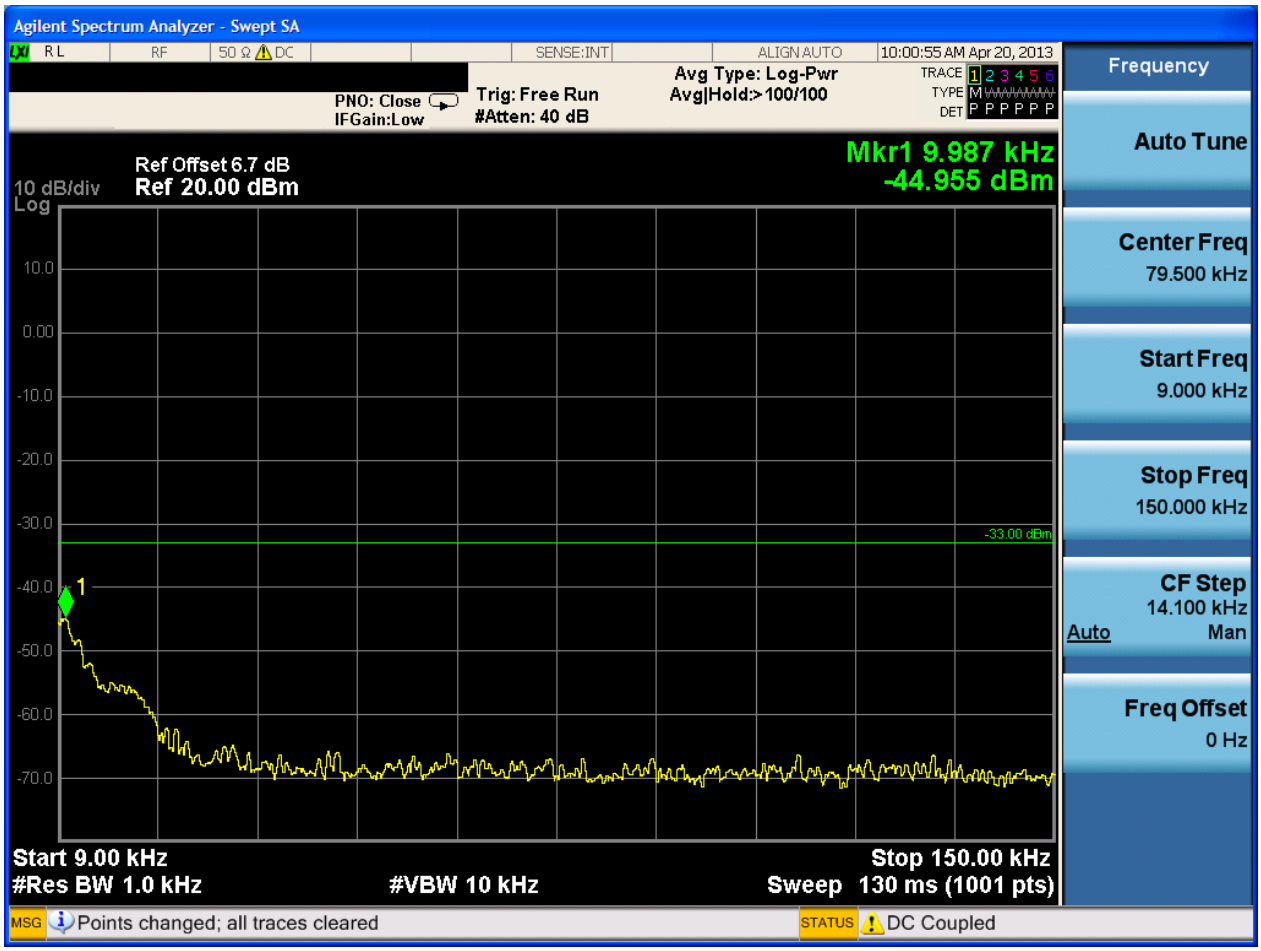
6.1.1.2.3 Test Channel = HCH



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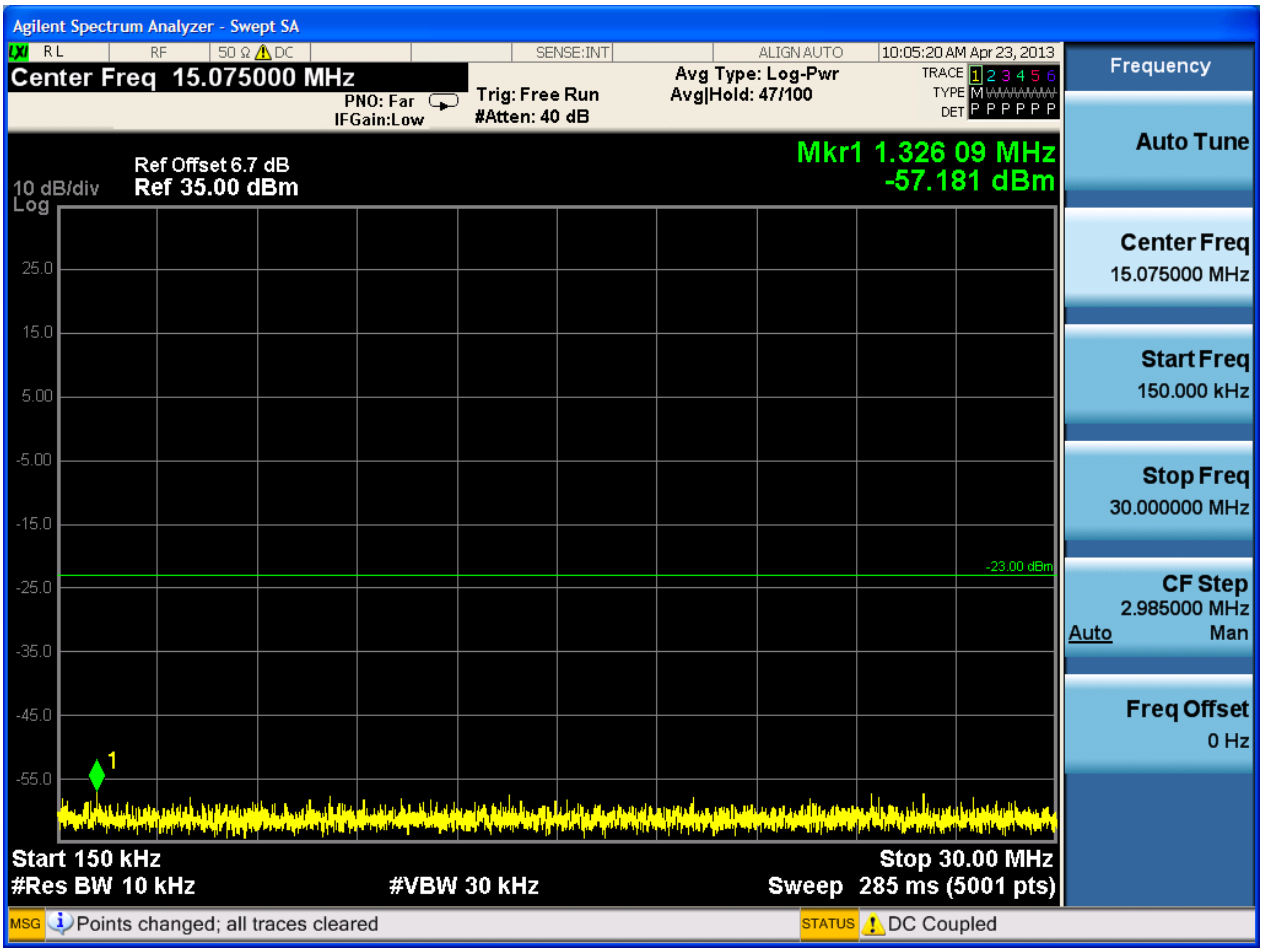

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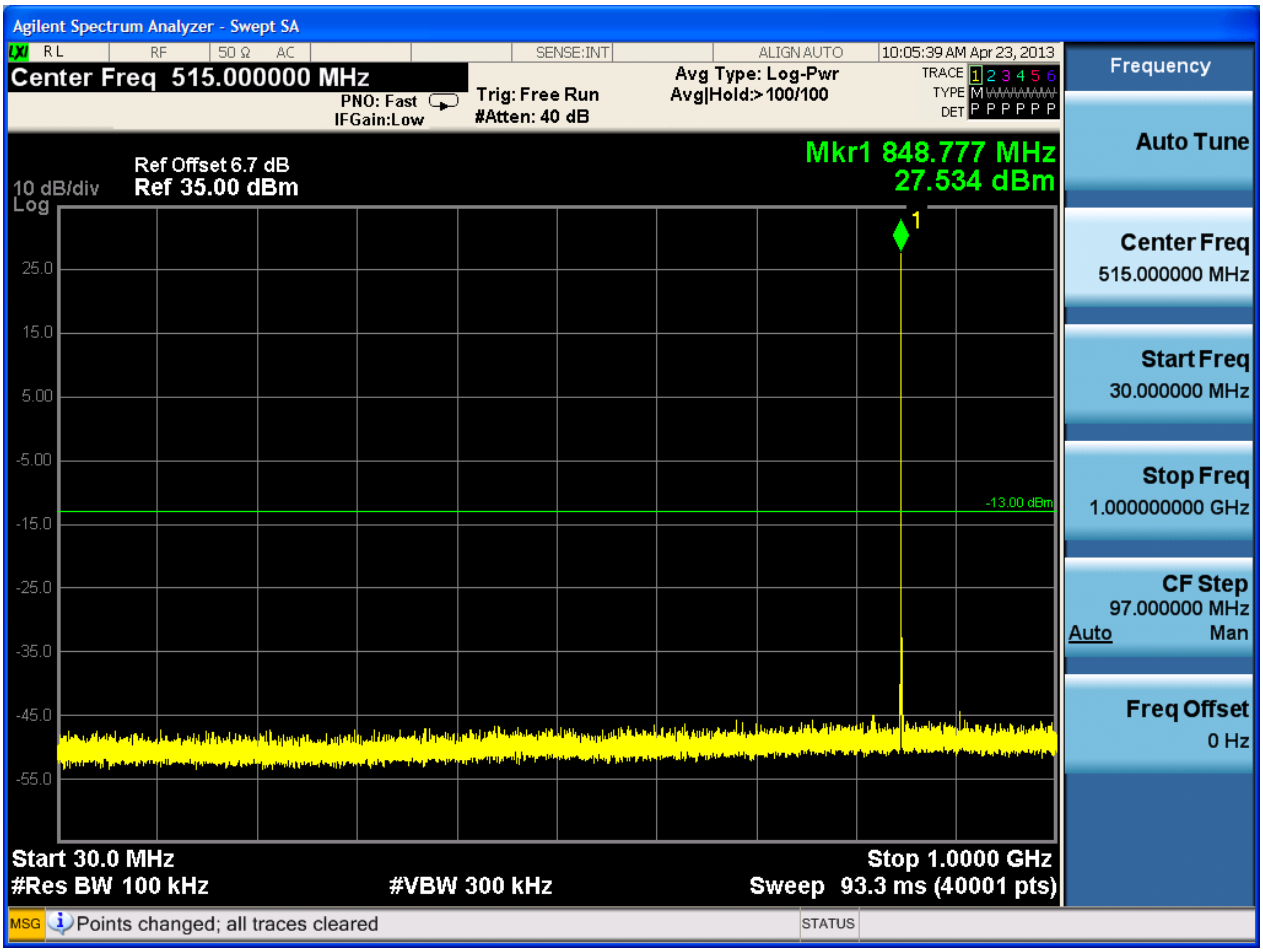

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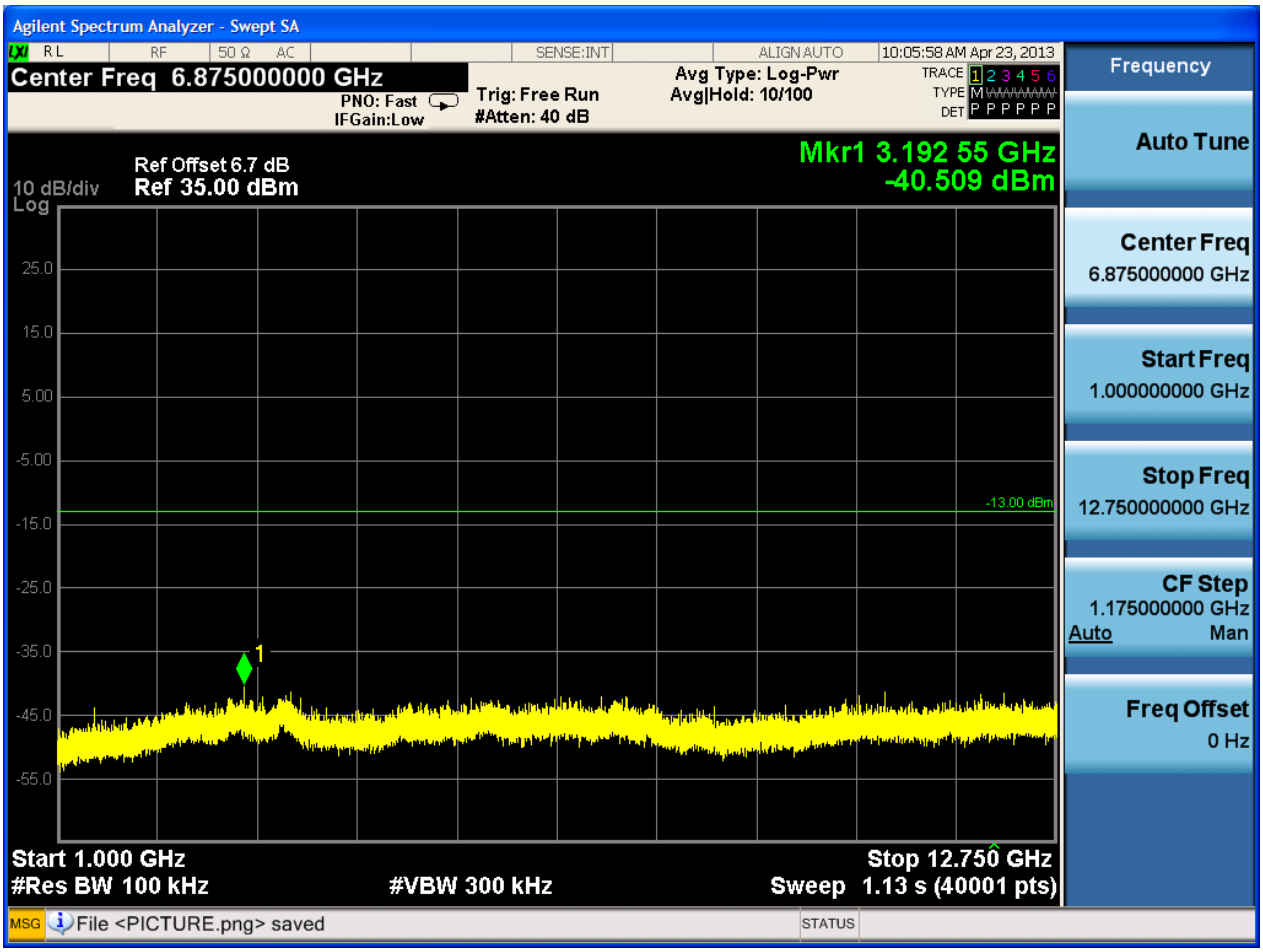

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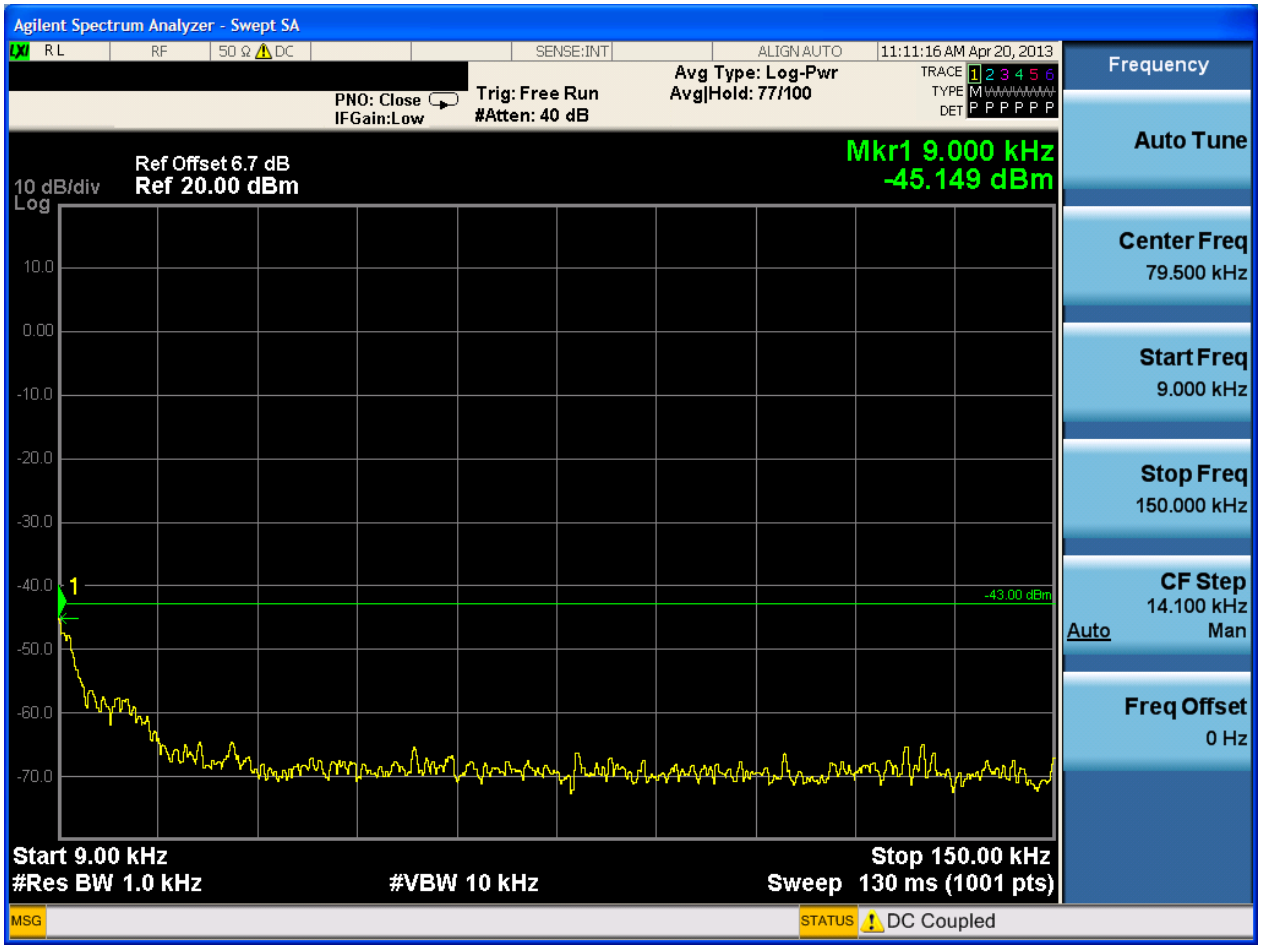
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH



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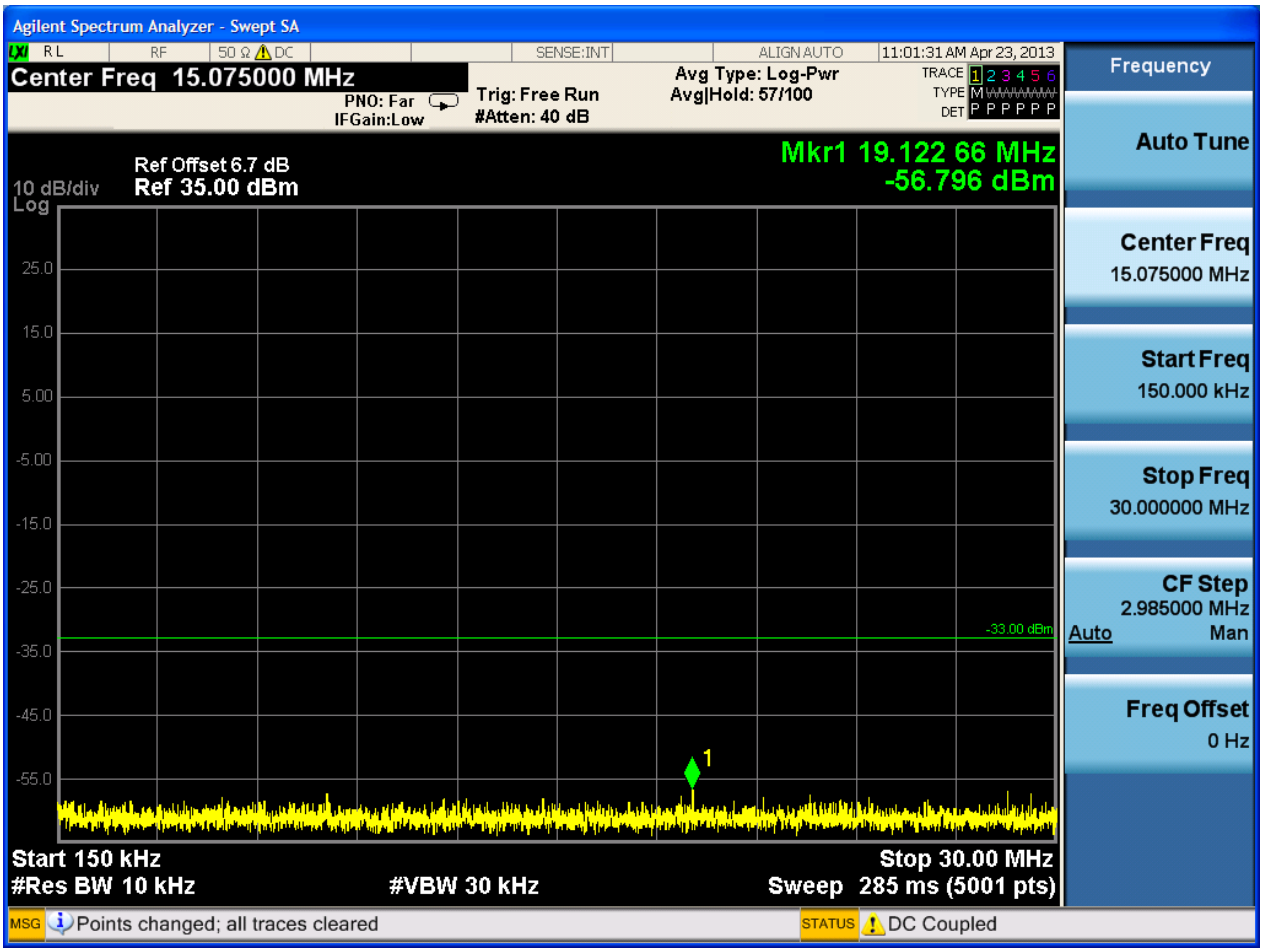

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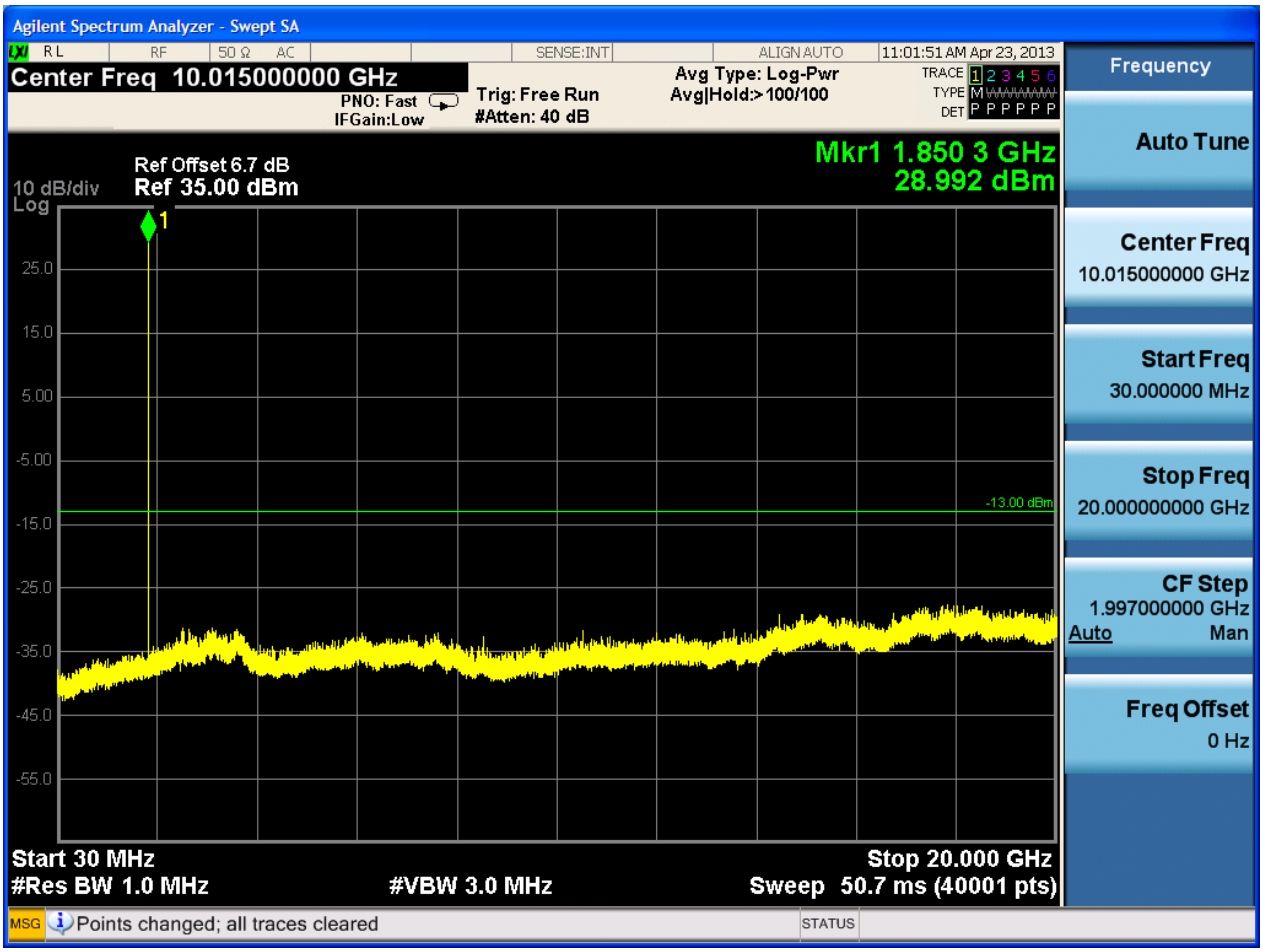

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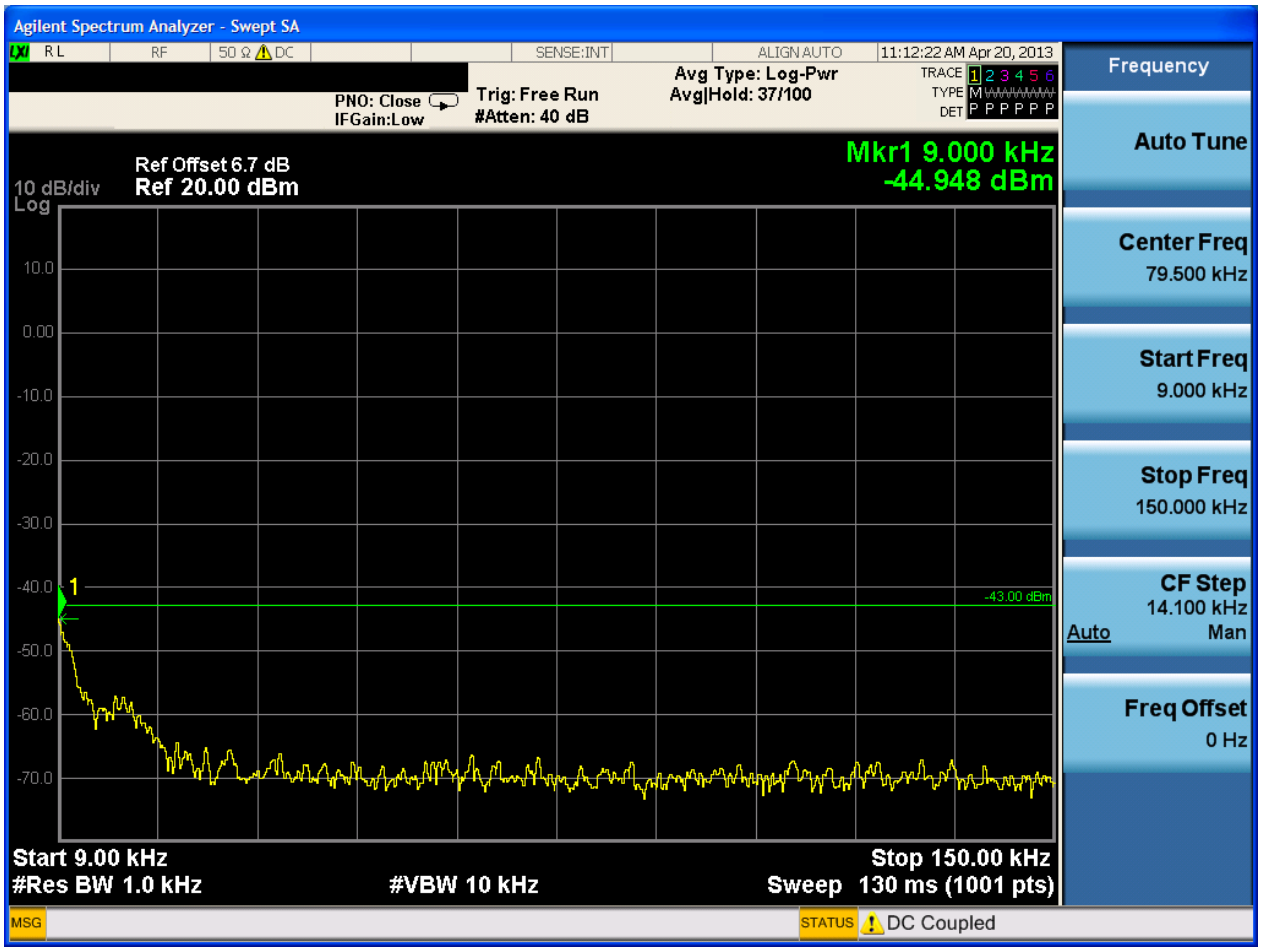
6.1.2.1.2 Test Channel = MCH



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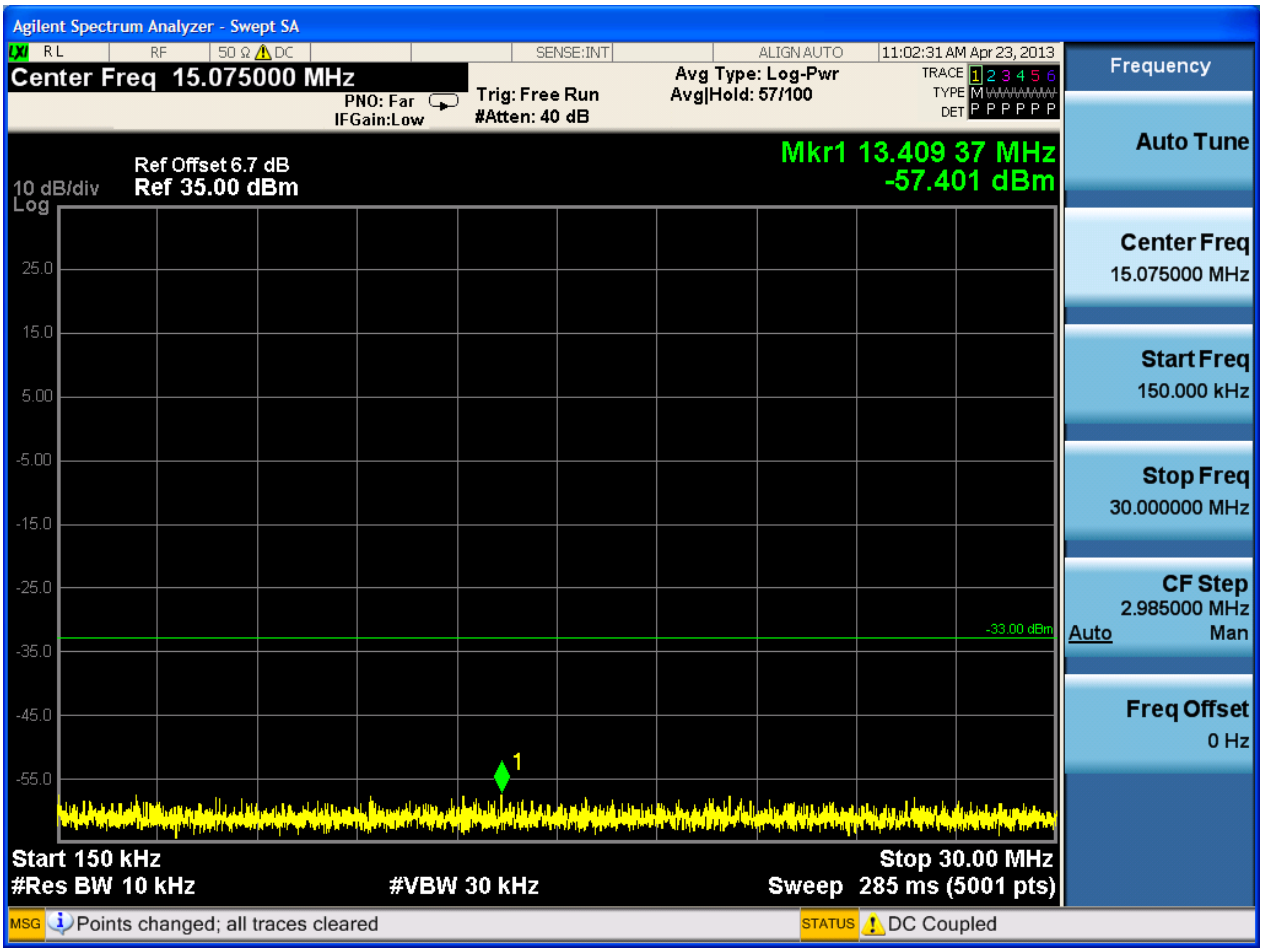

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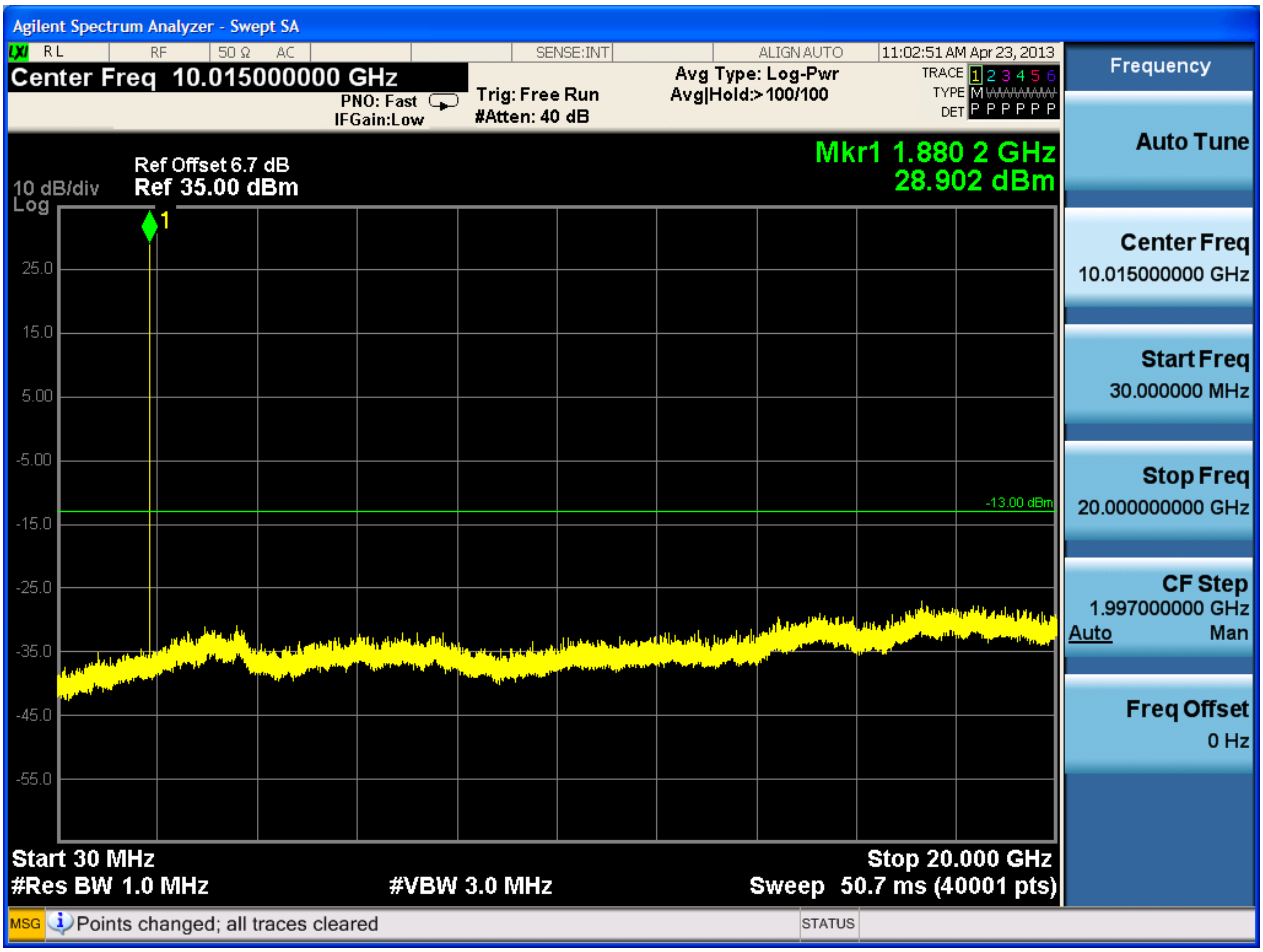

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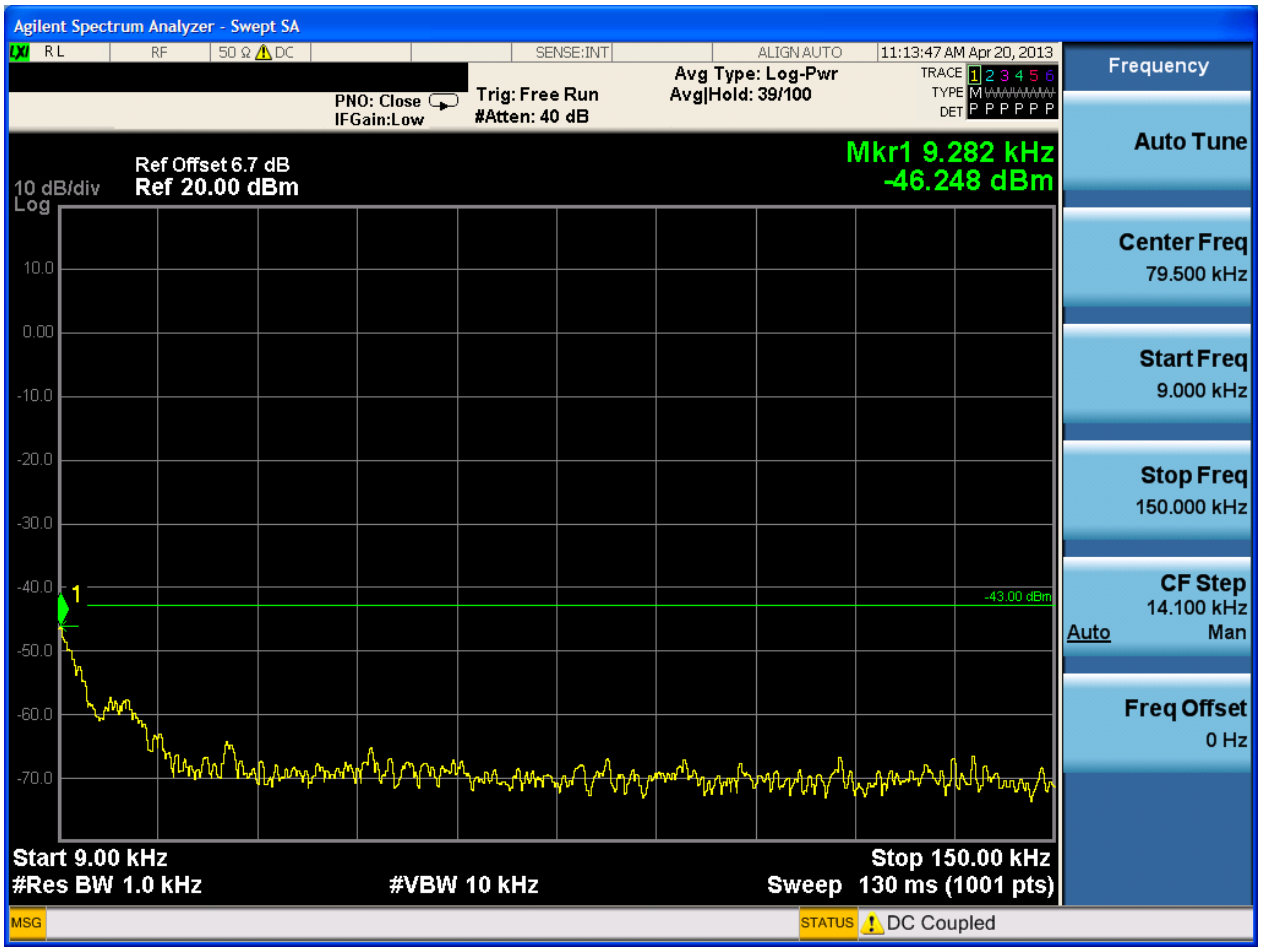
6.1.2.1.3 Test Channel = HCH



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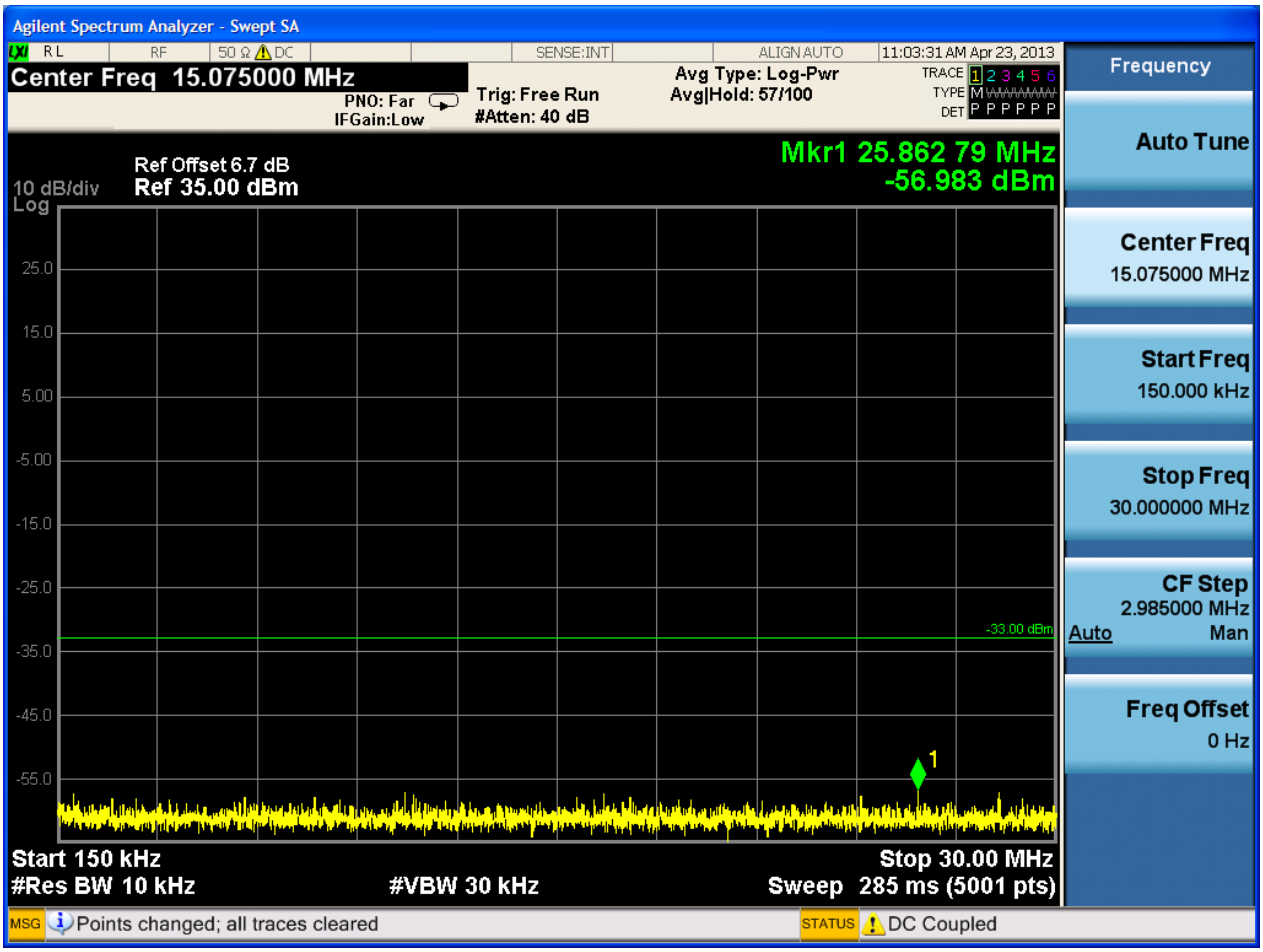

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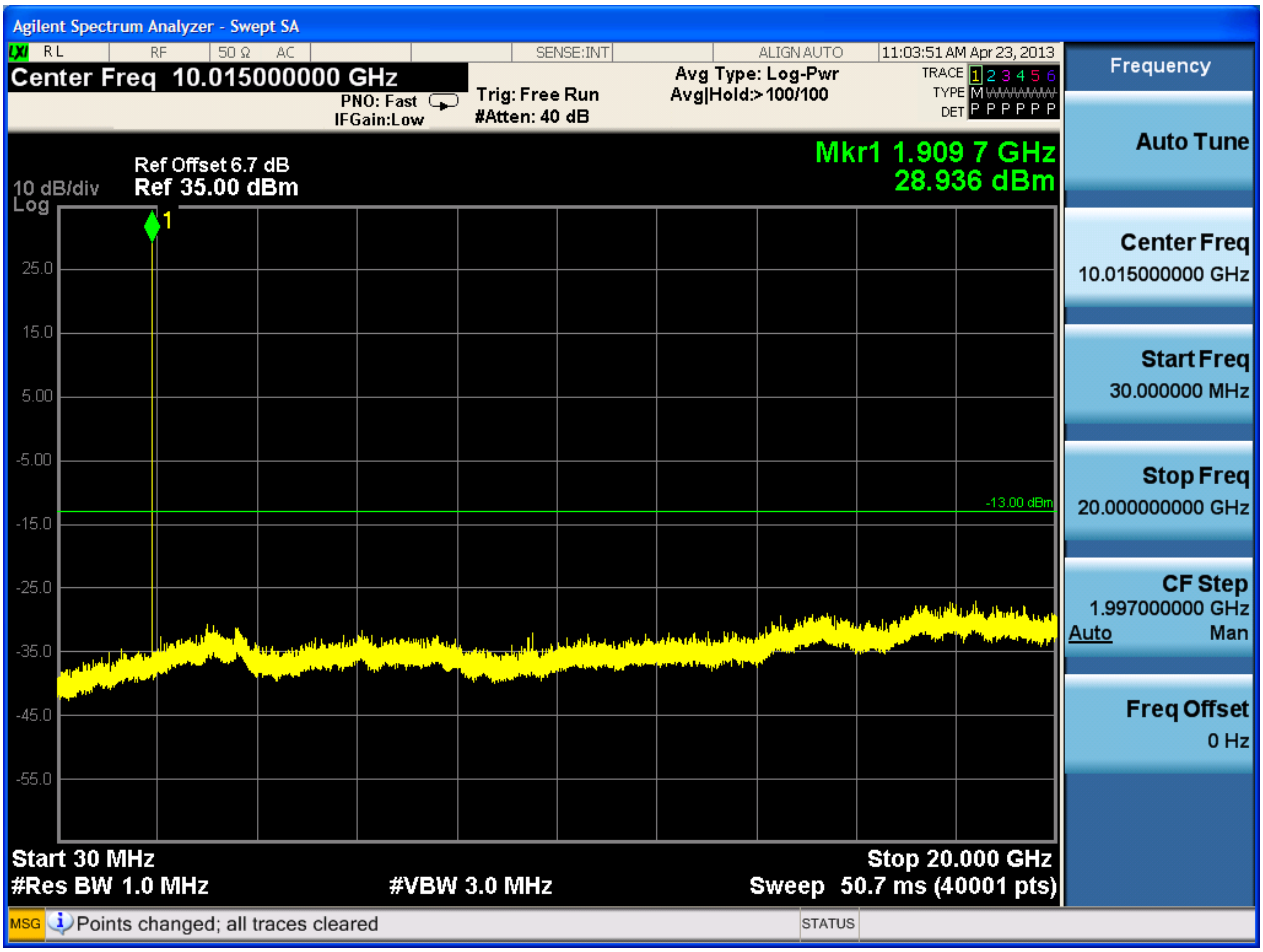

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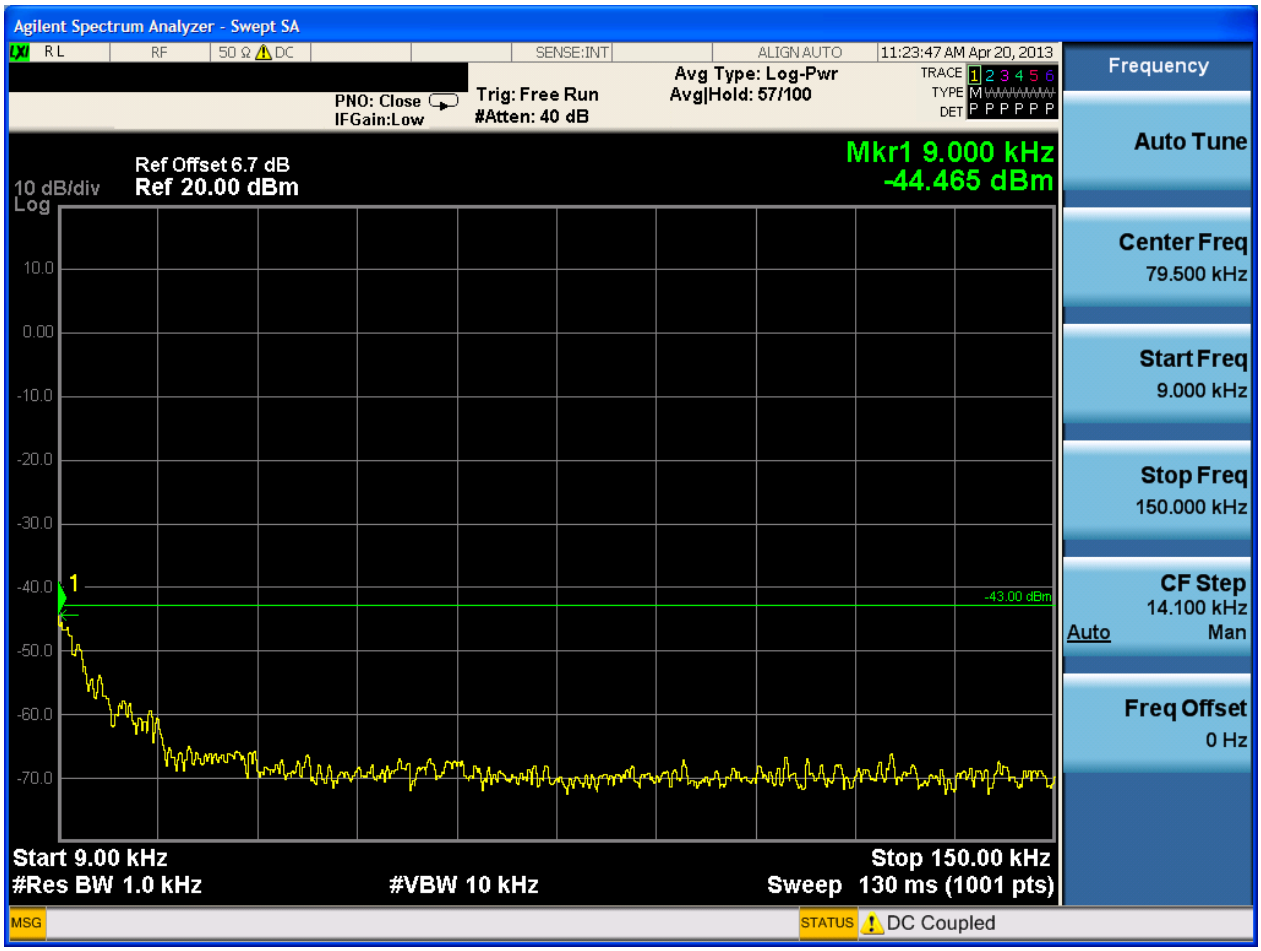
6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH



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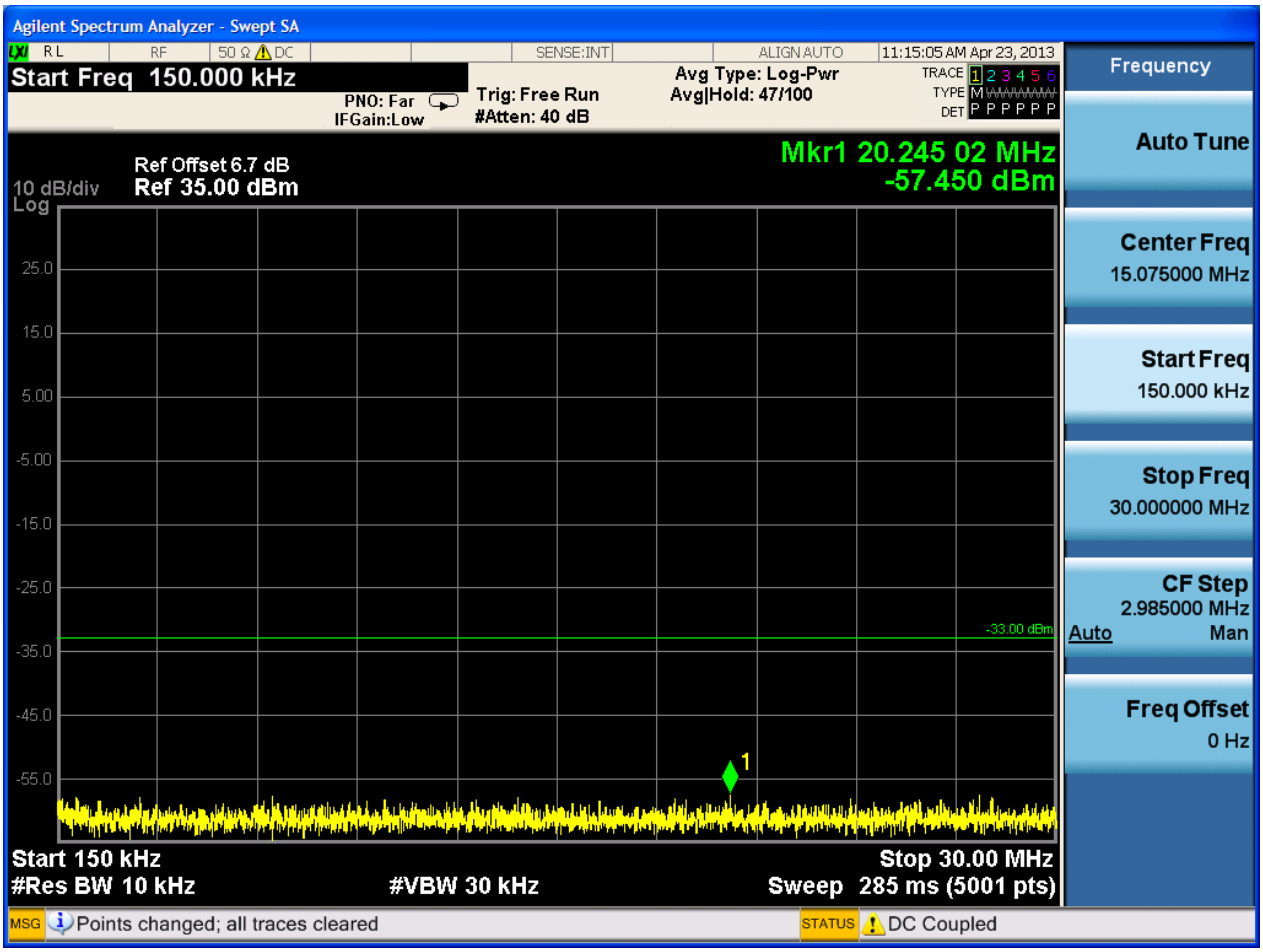

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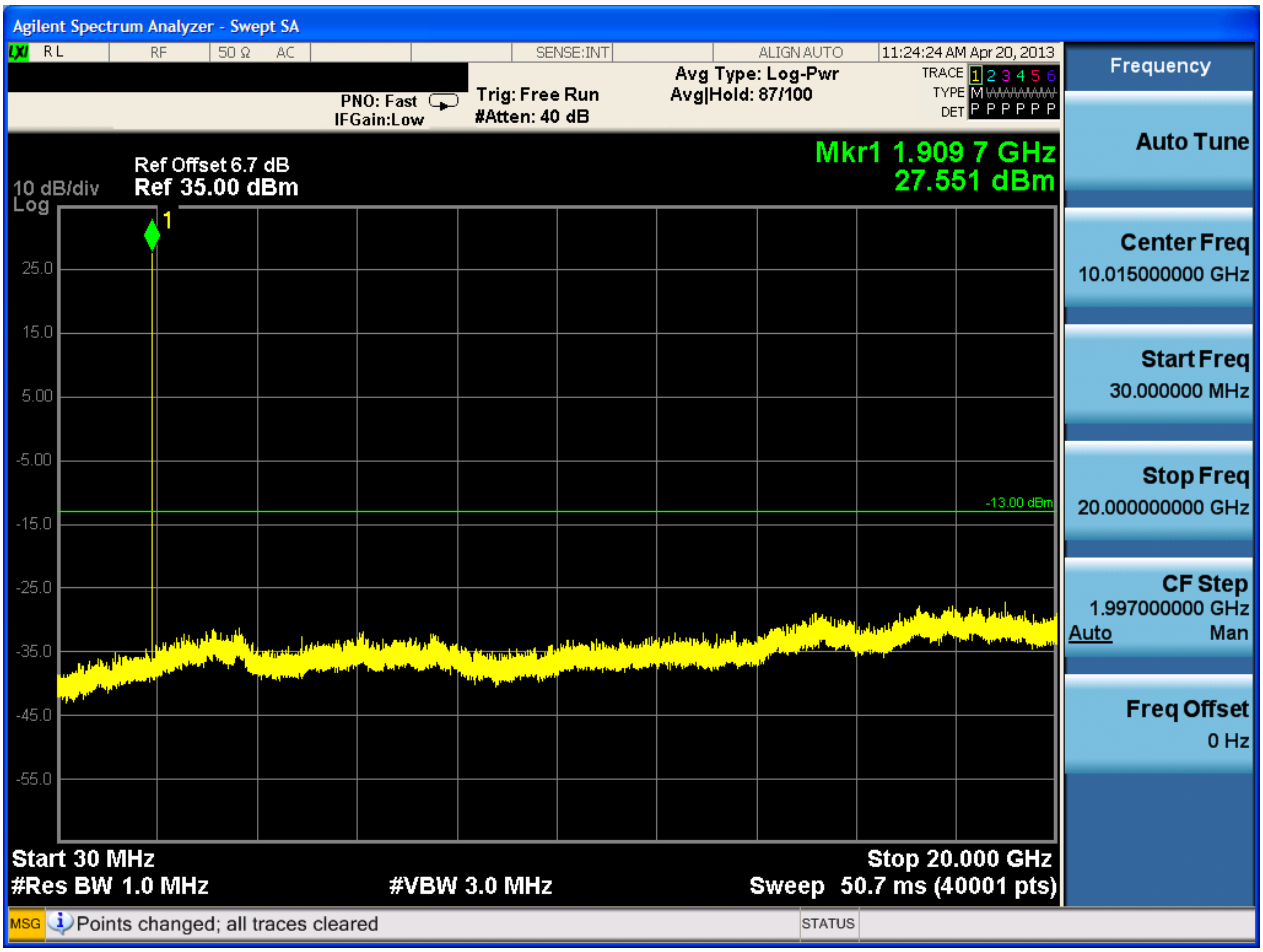

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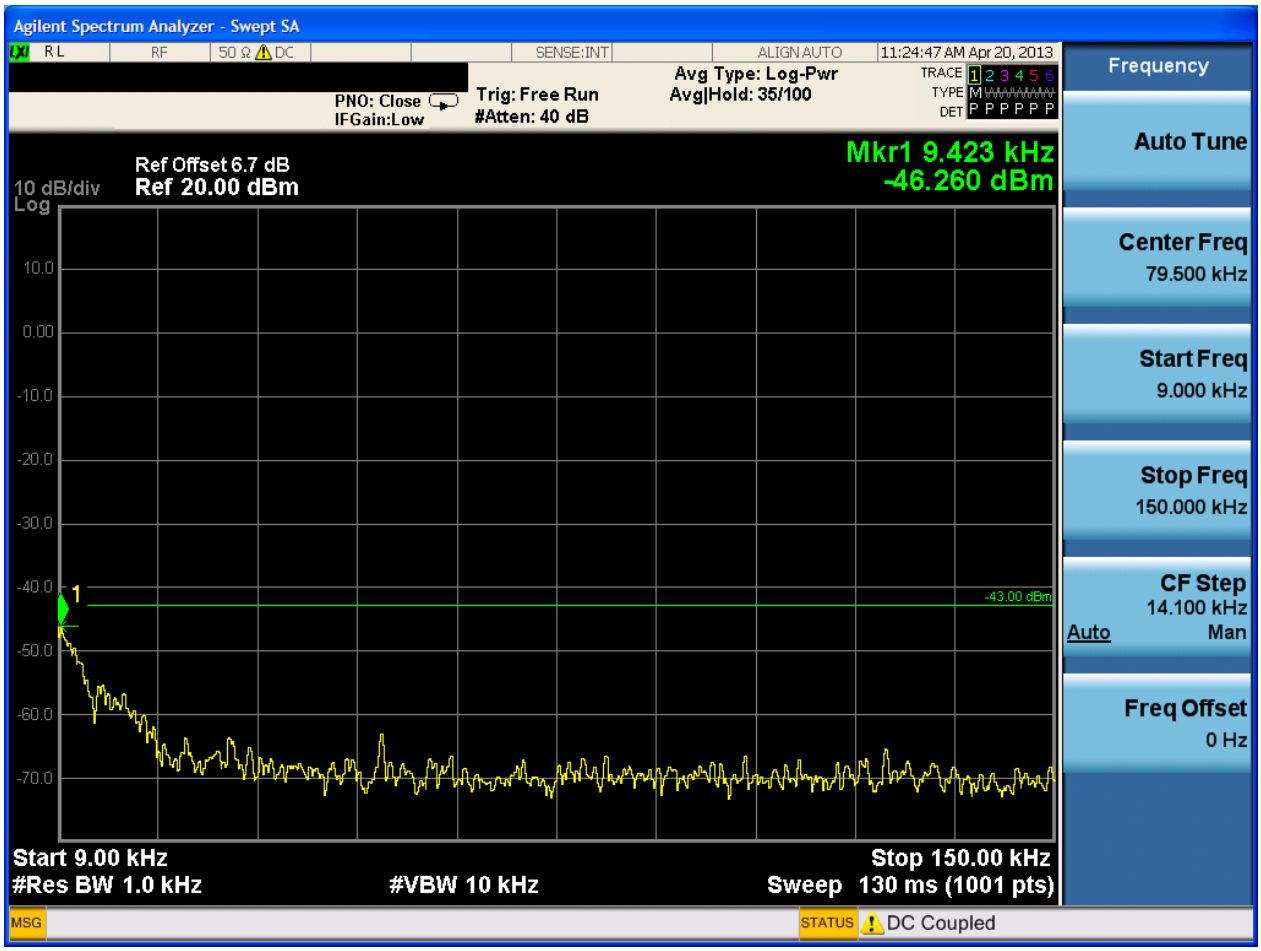
6.1.2.2.2 Test Channel = MCH



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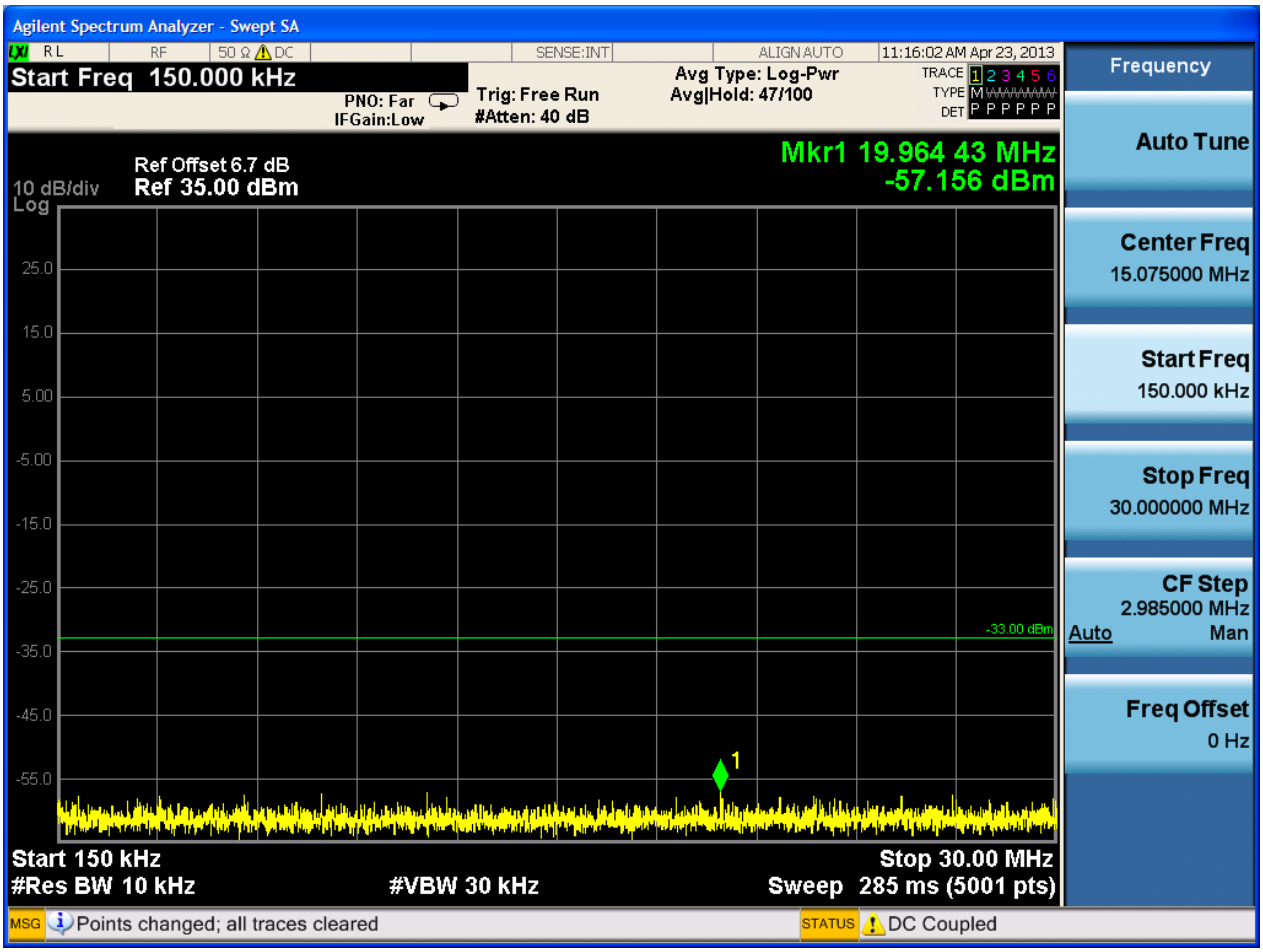

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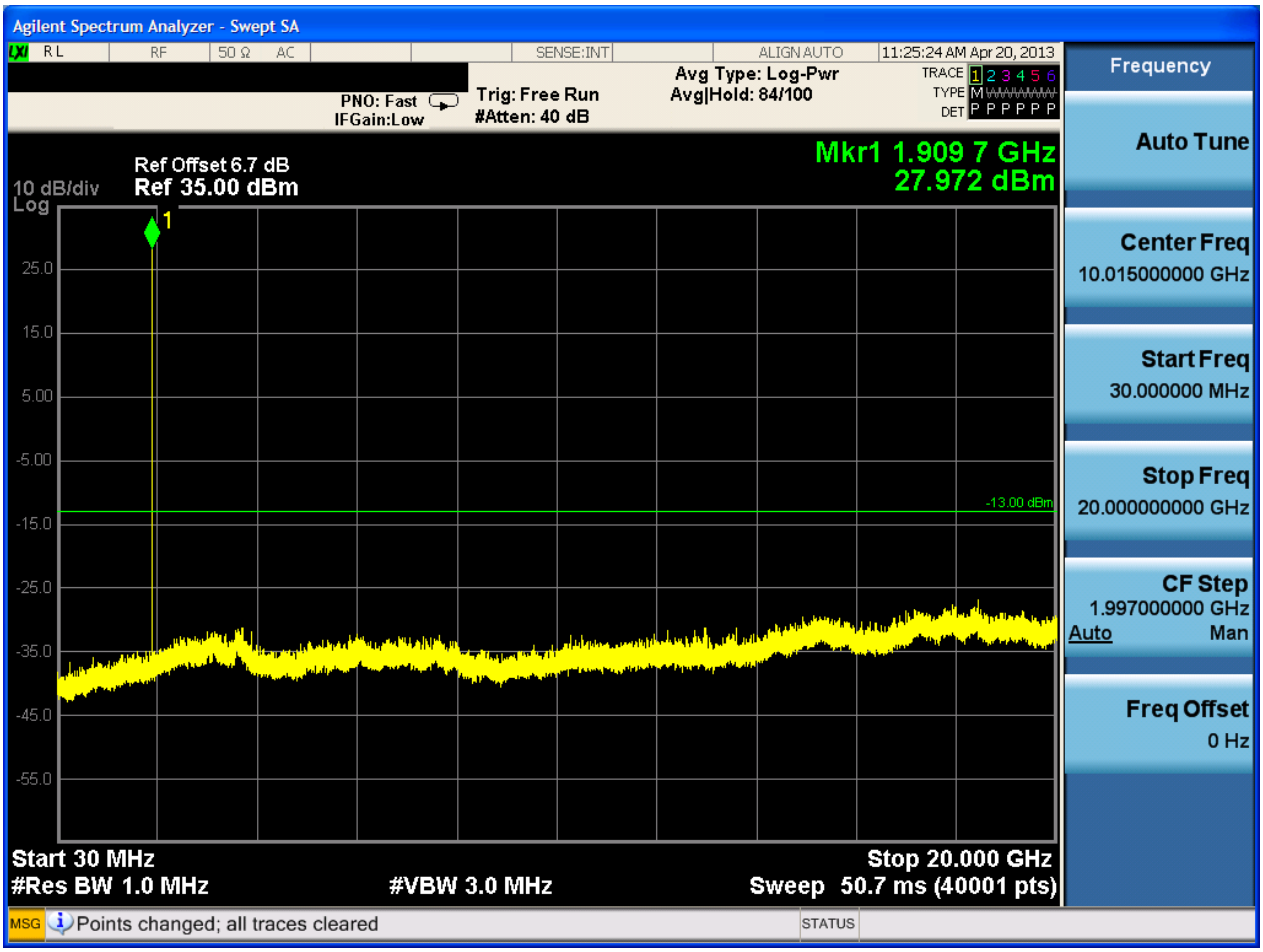

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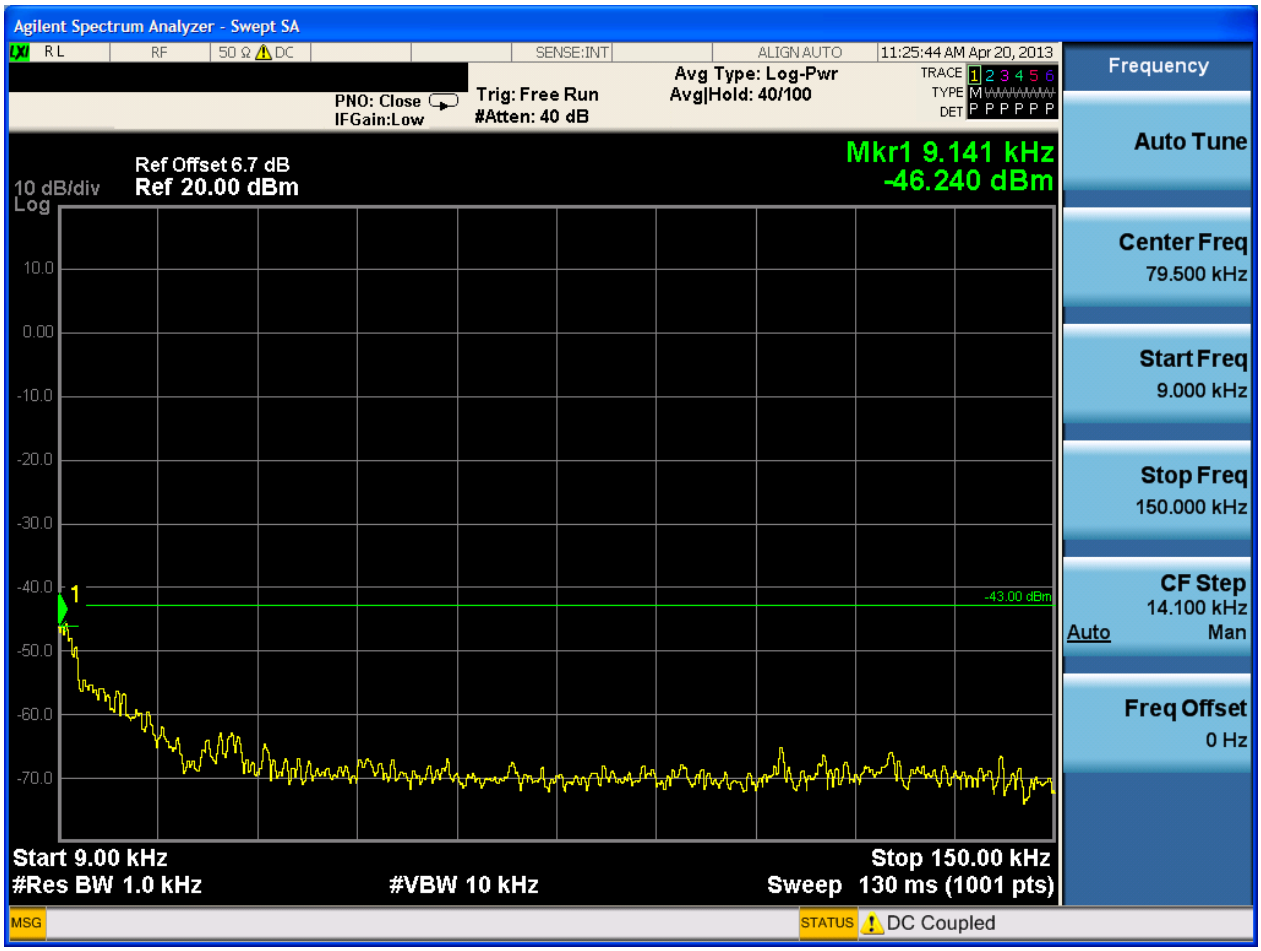
6.1.2.2.3 Test Channel = HCH



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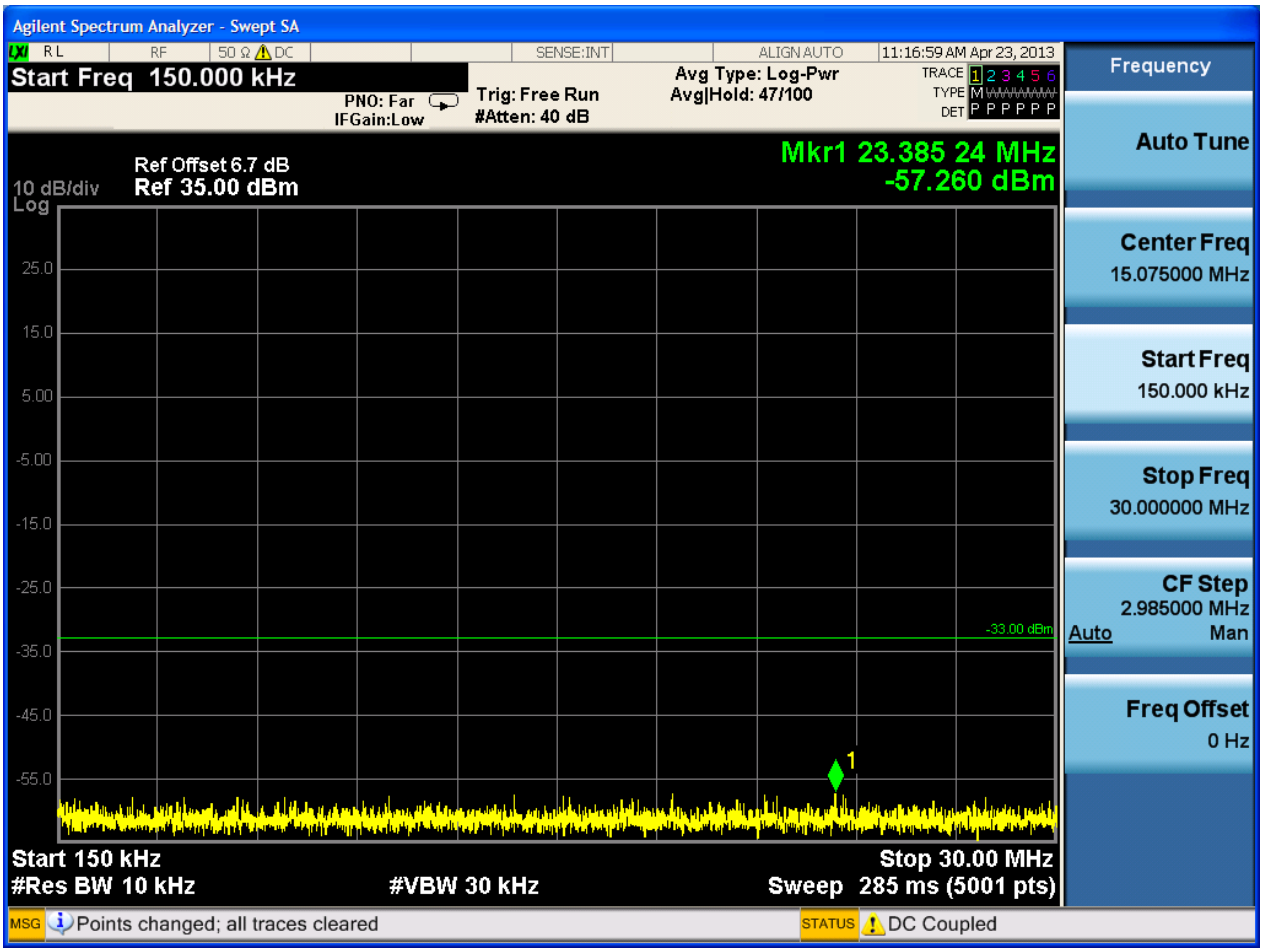

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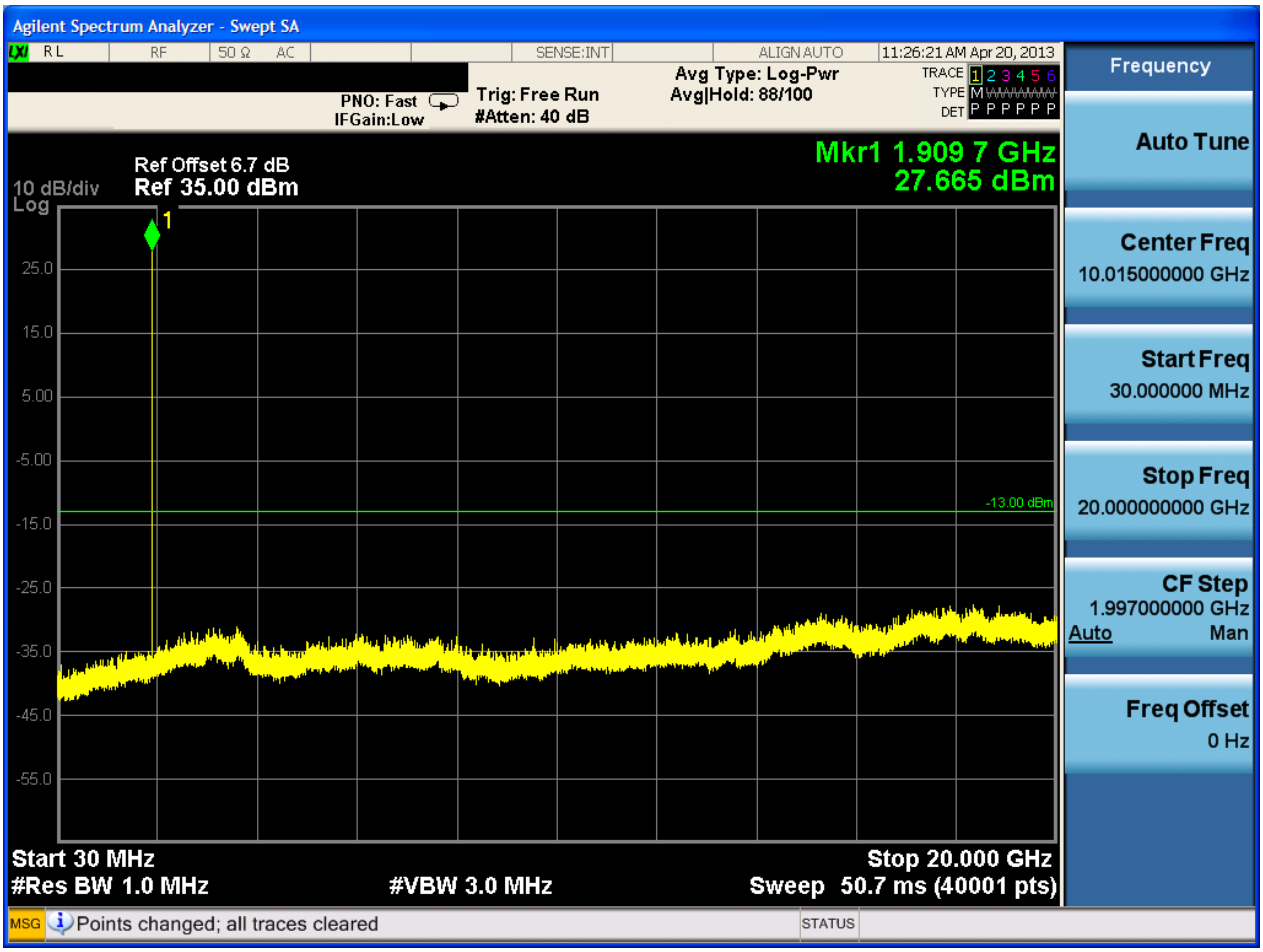

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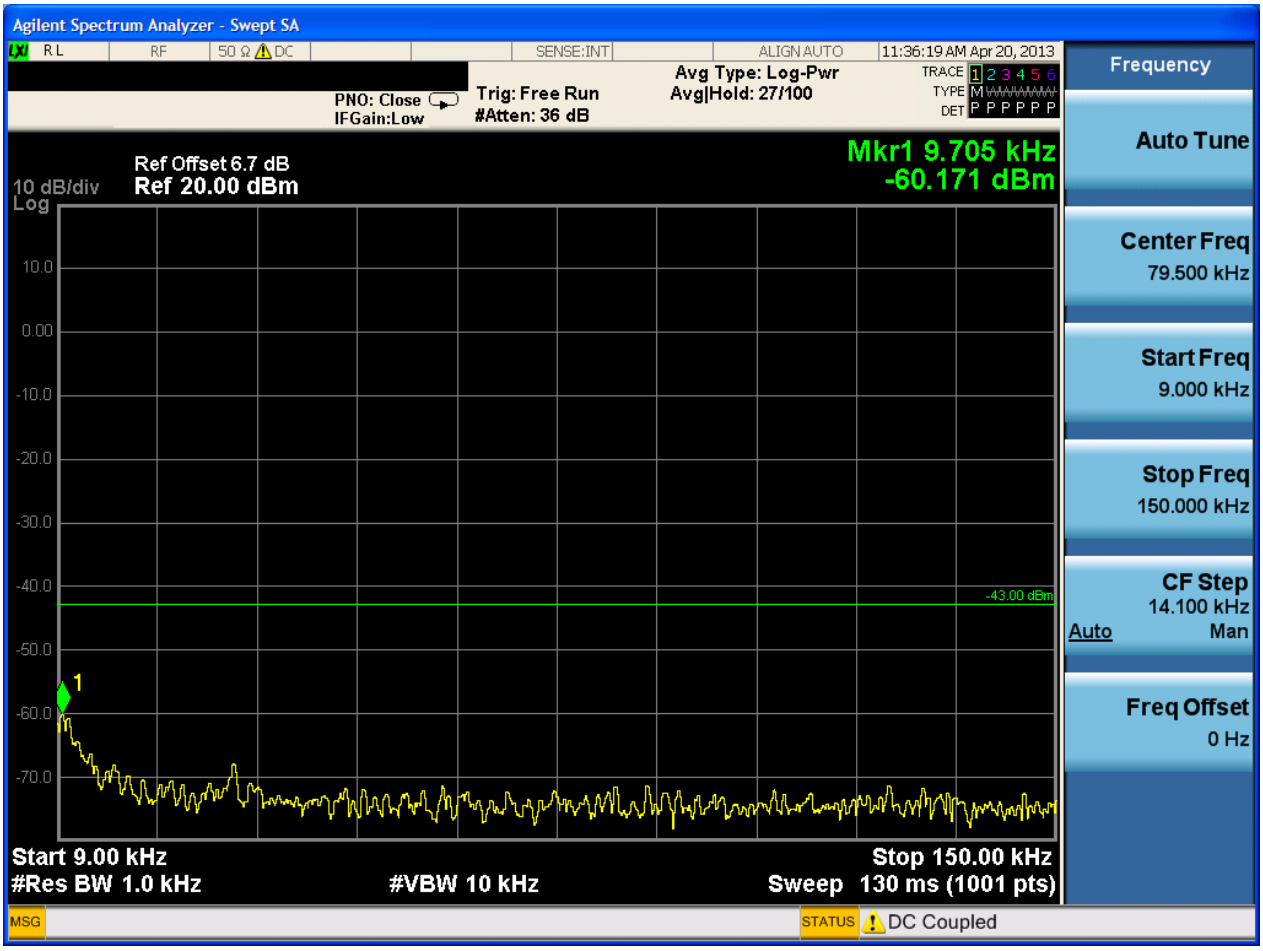
6.2 For UMTS

6.2.1 Test Band = WCDMA850

6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



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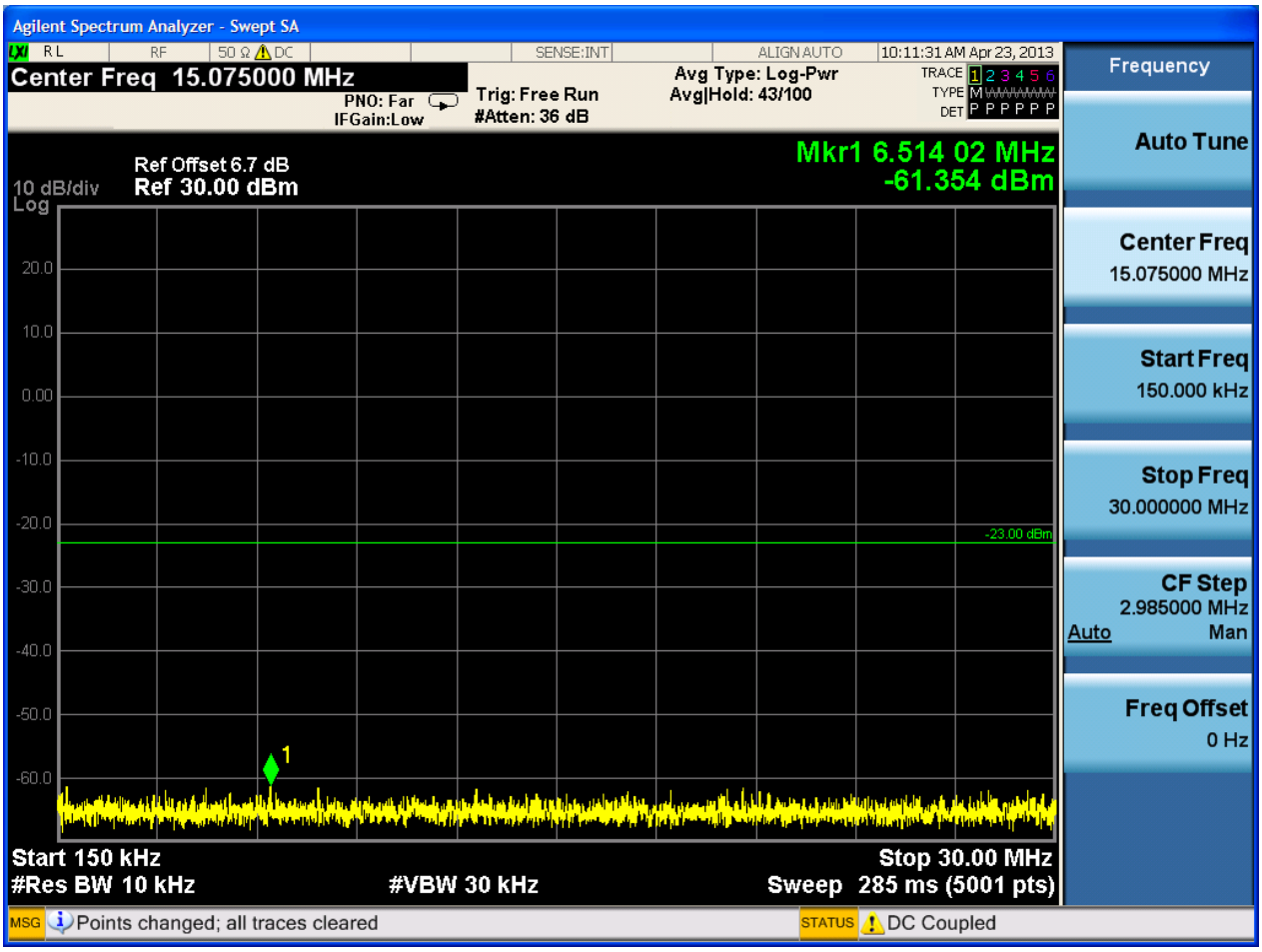

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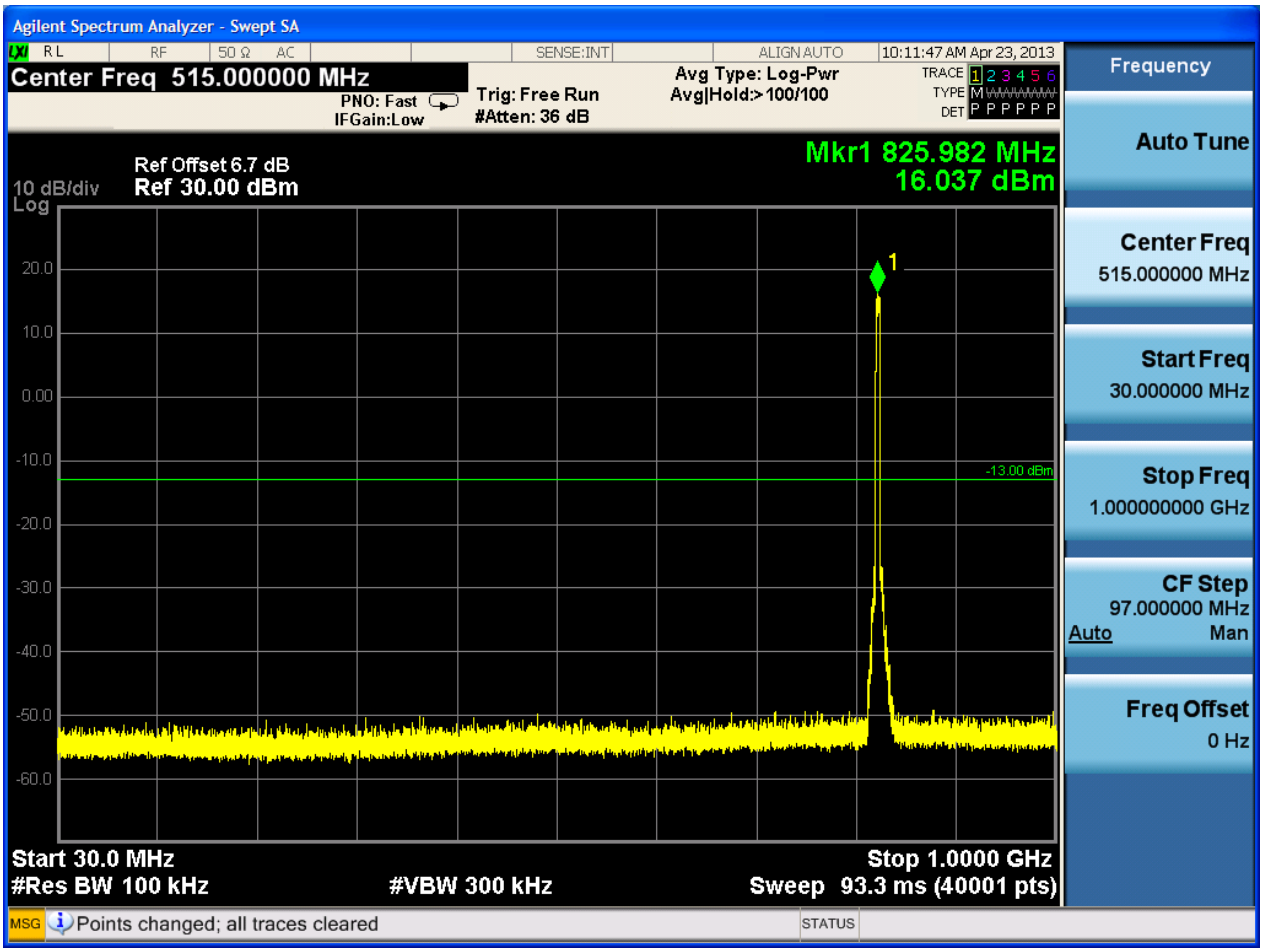

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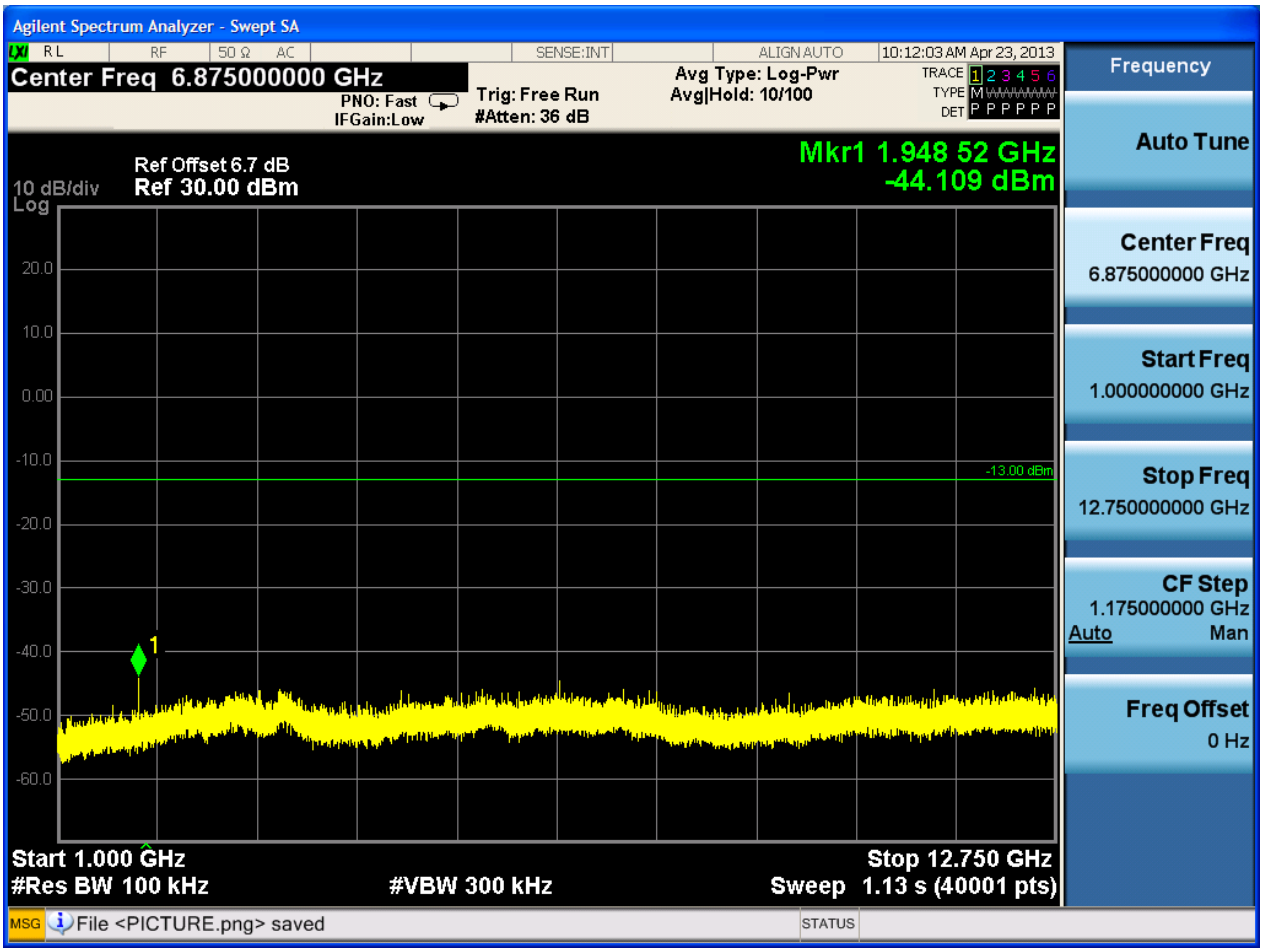

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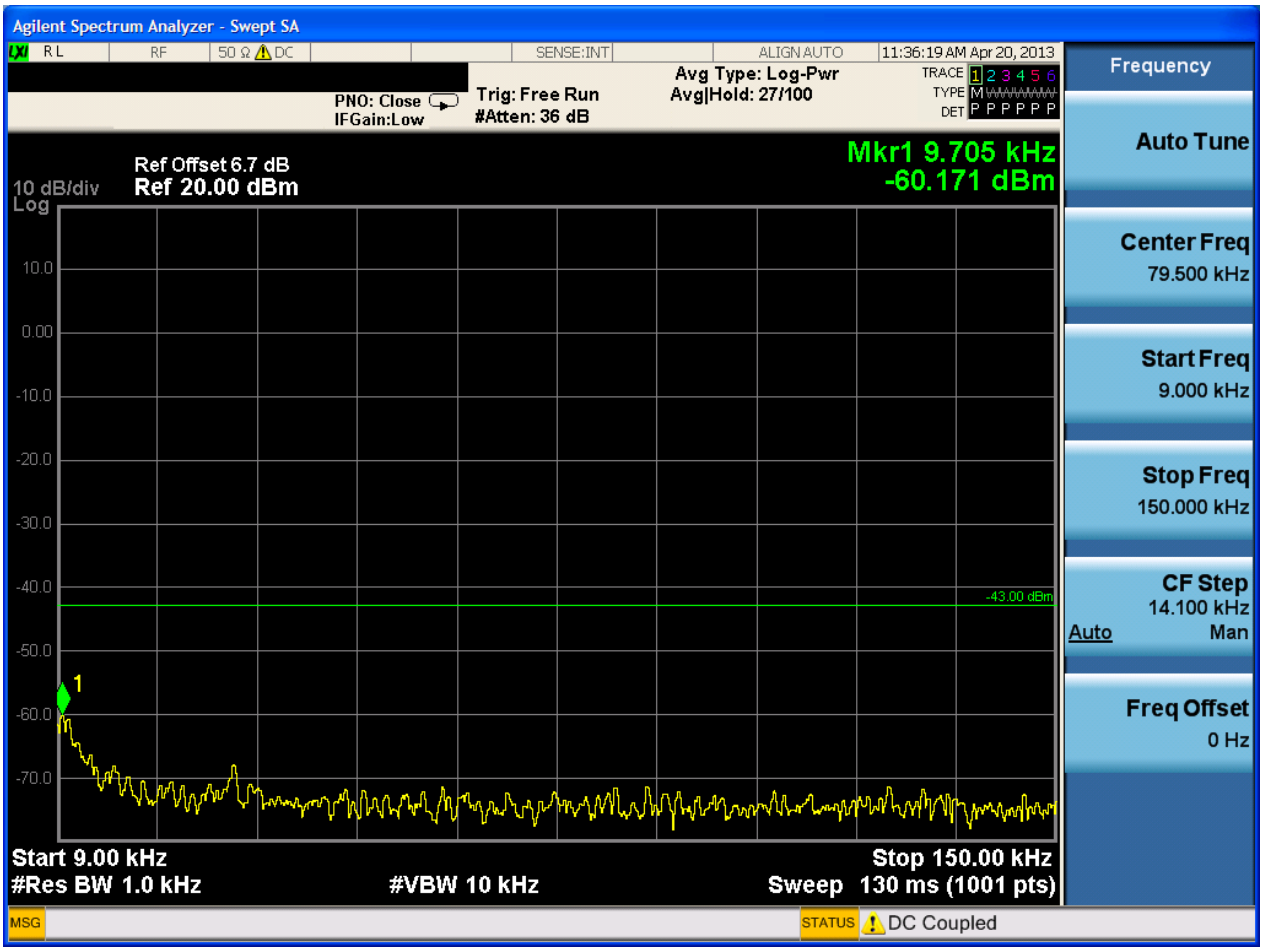
6.2.1.1.2 Test Channel = MCH



DATA_PicturesFCC_GSM850/GPRS_SE_GSM850_

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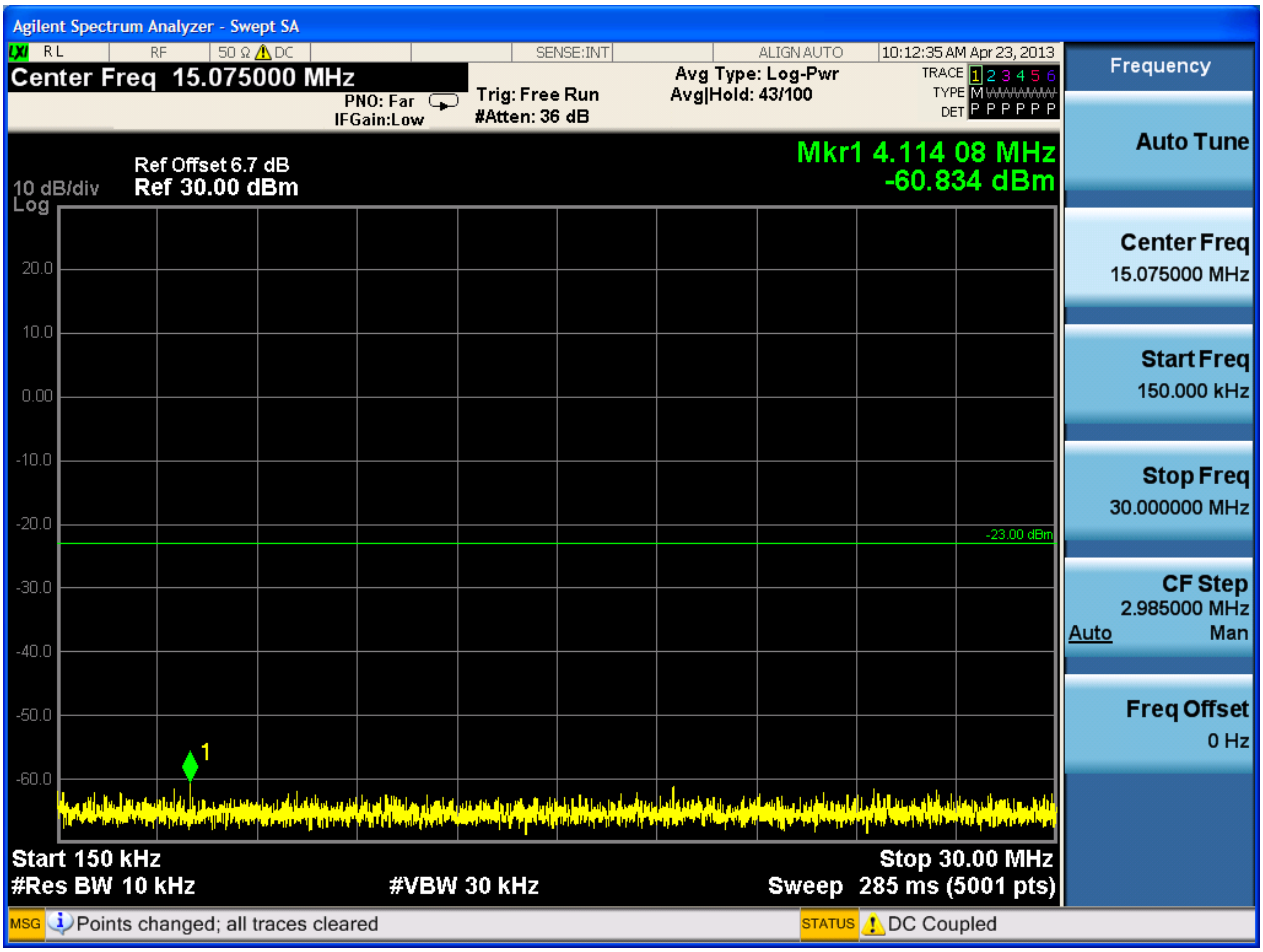

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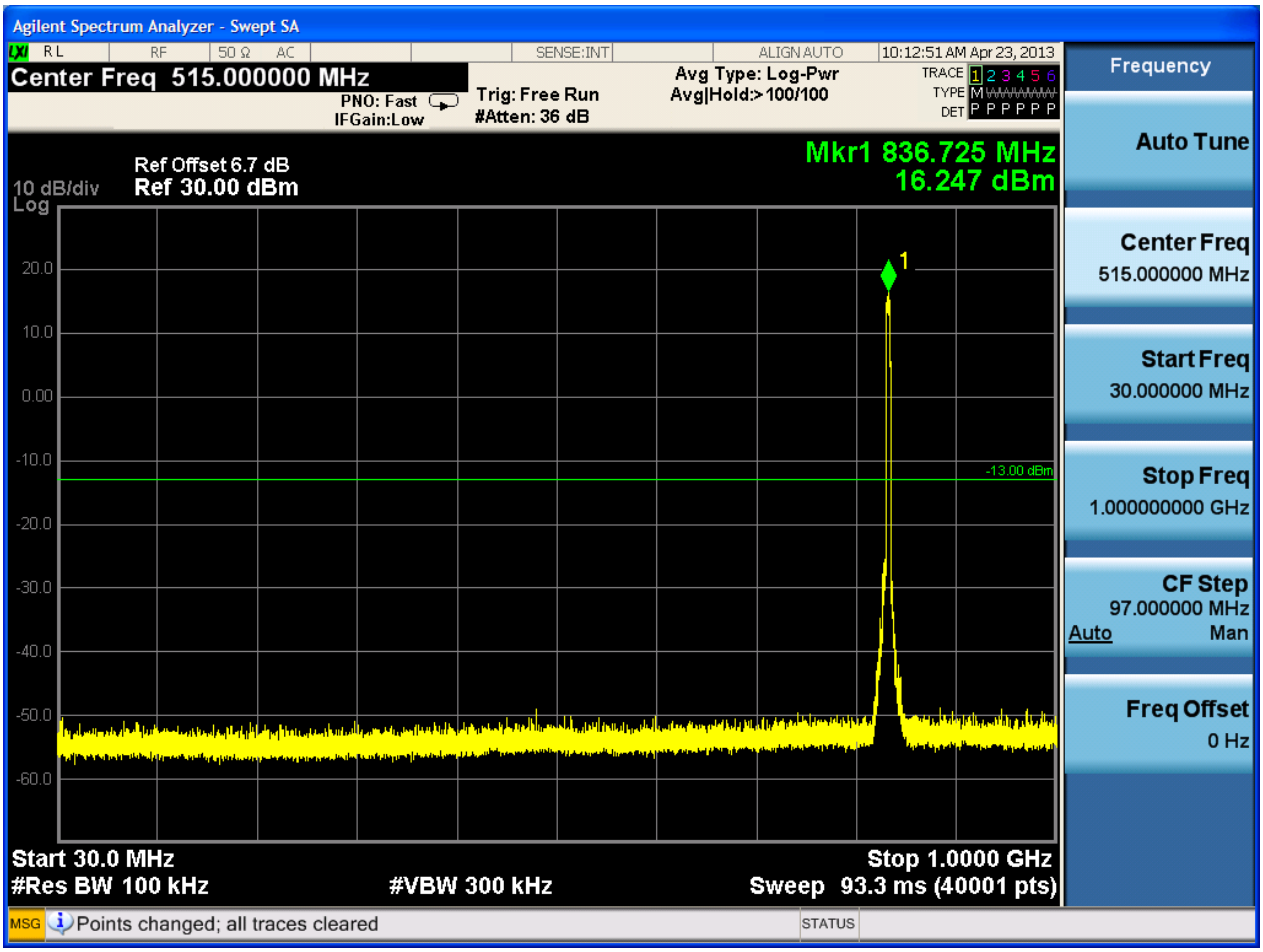

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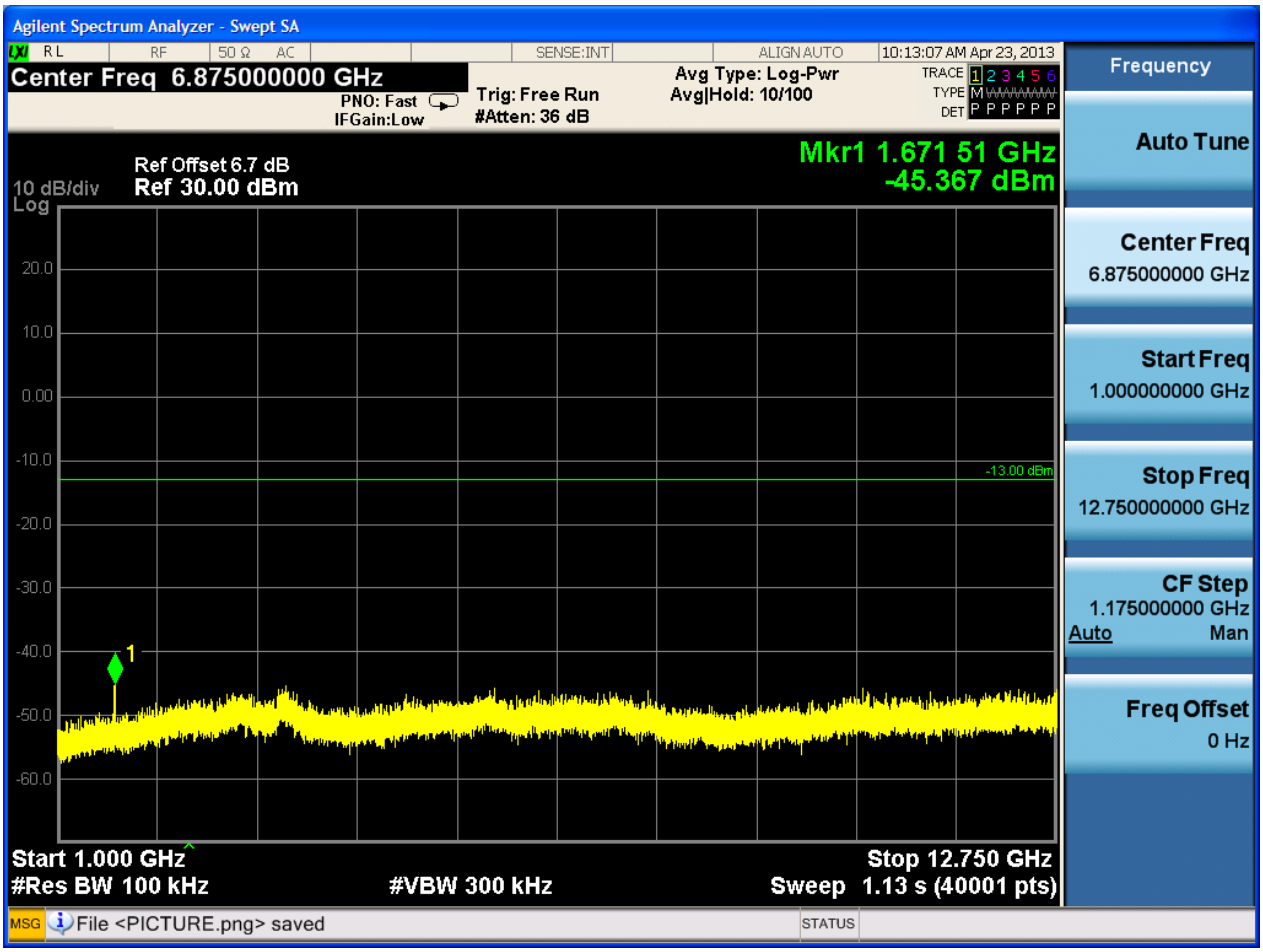

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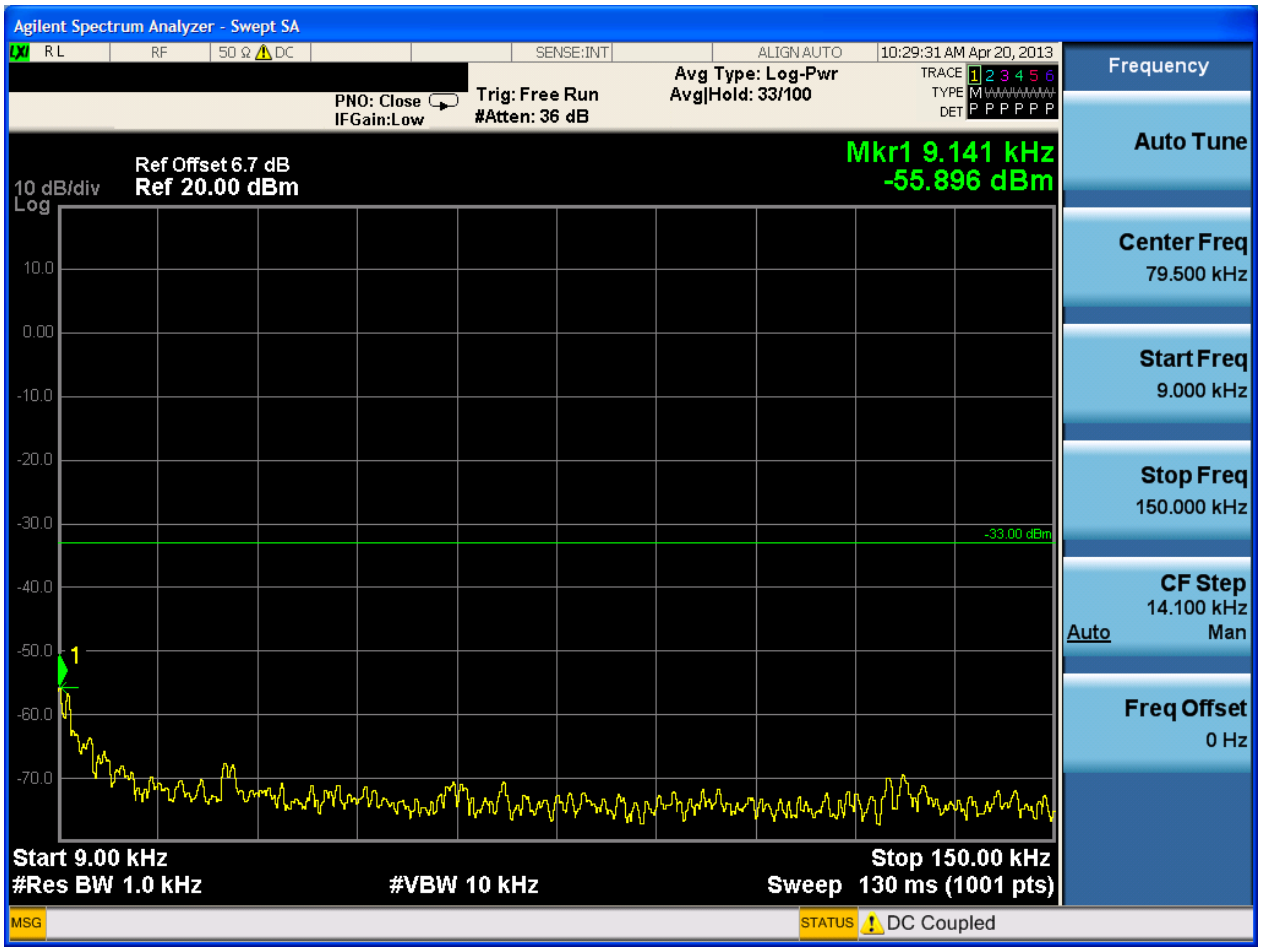
6.2.1.1.3 Test Channel = HCH



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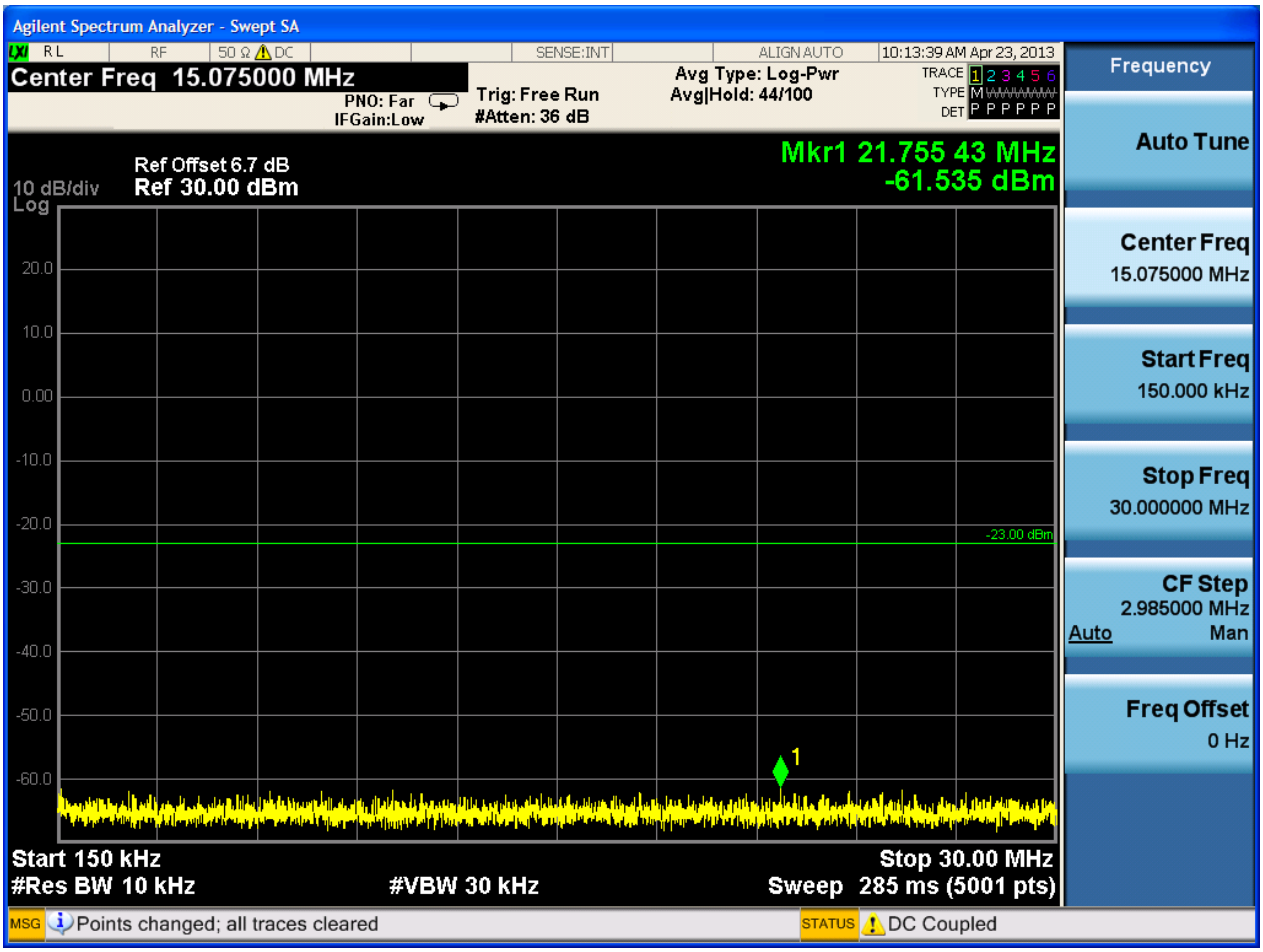

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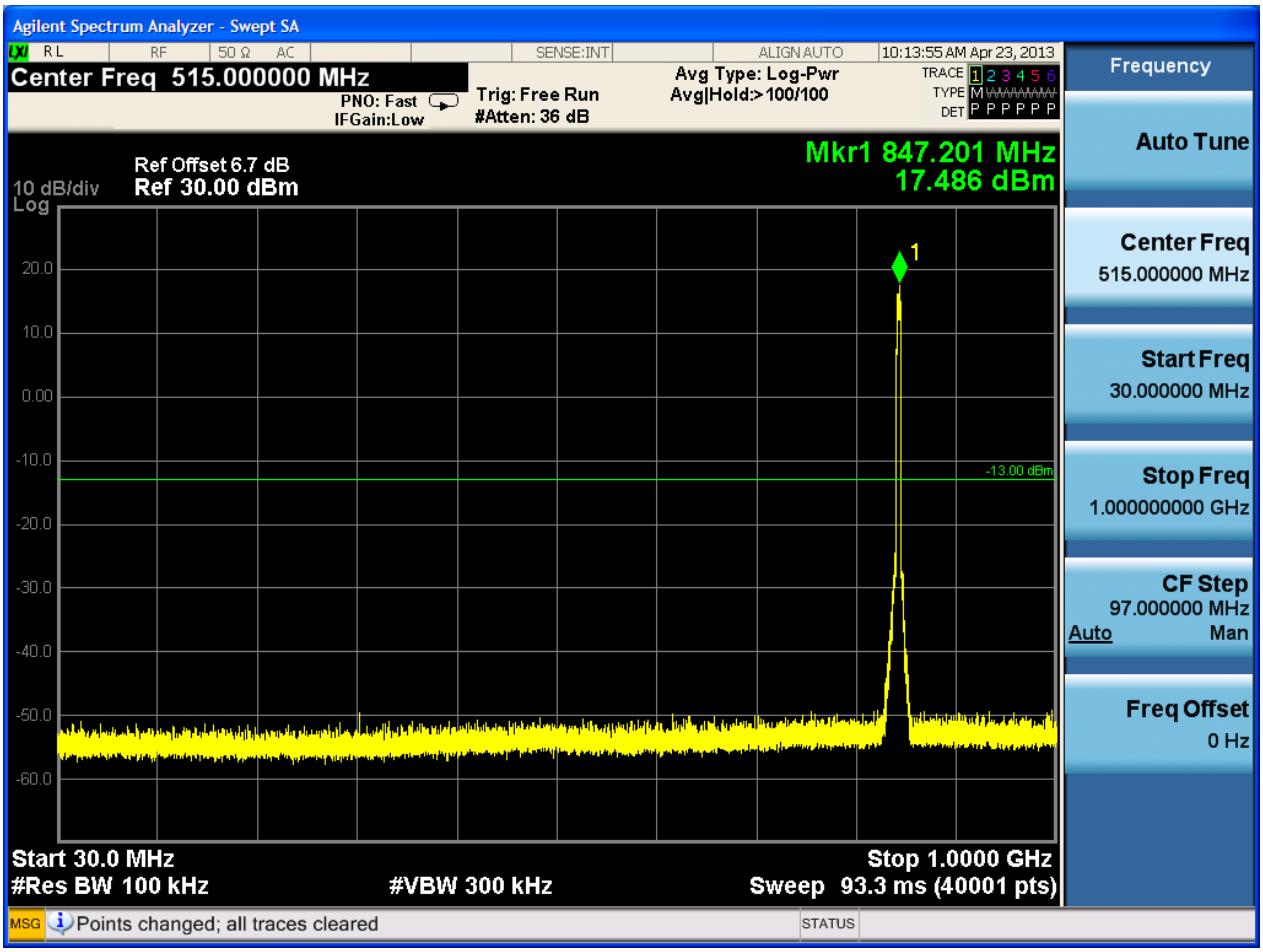

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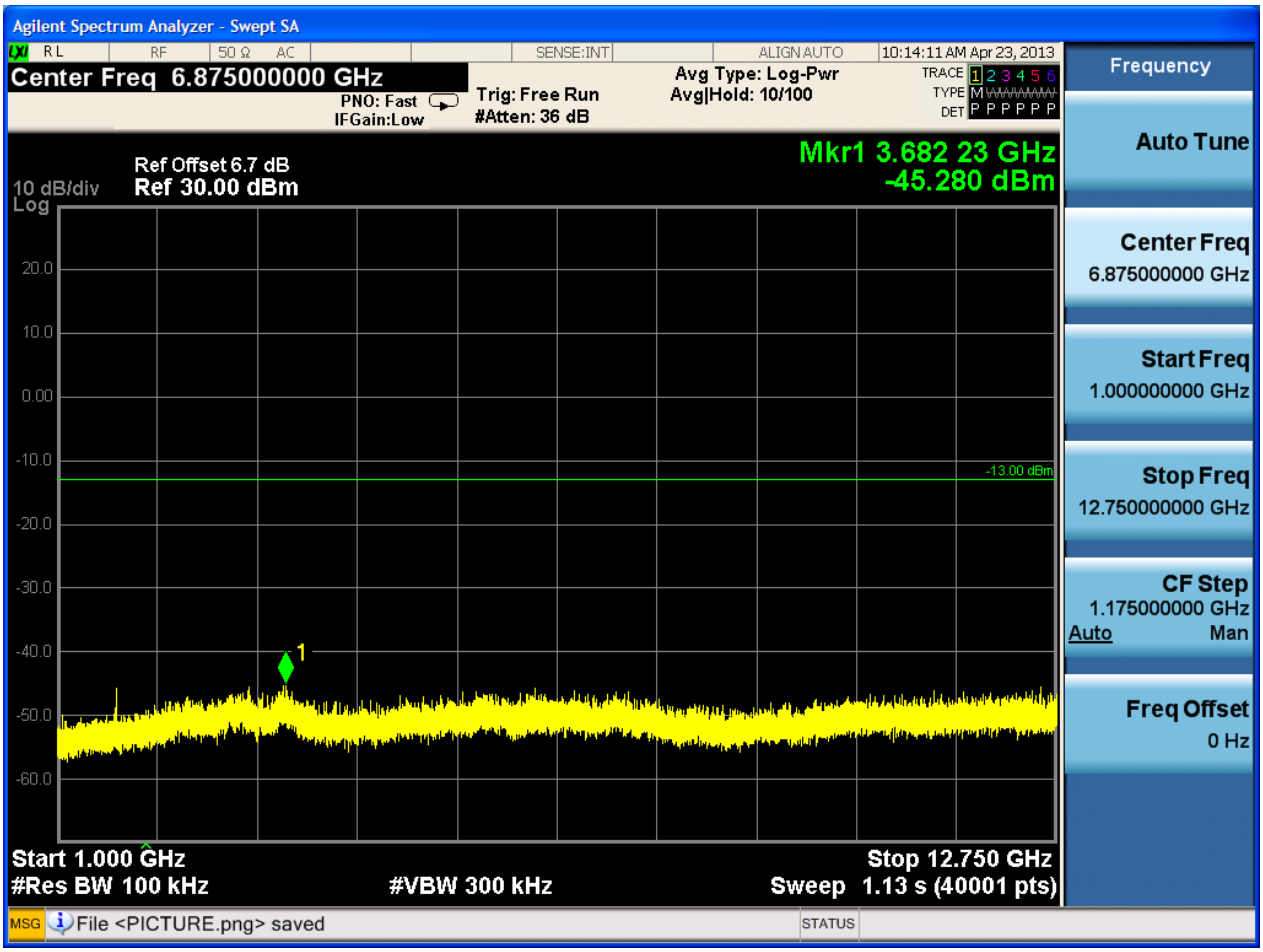

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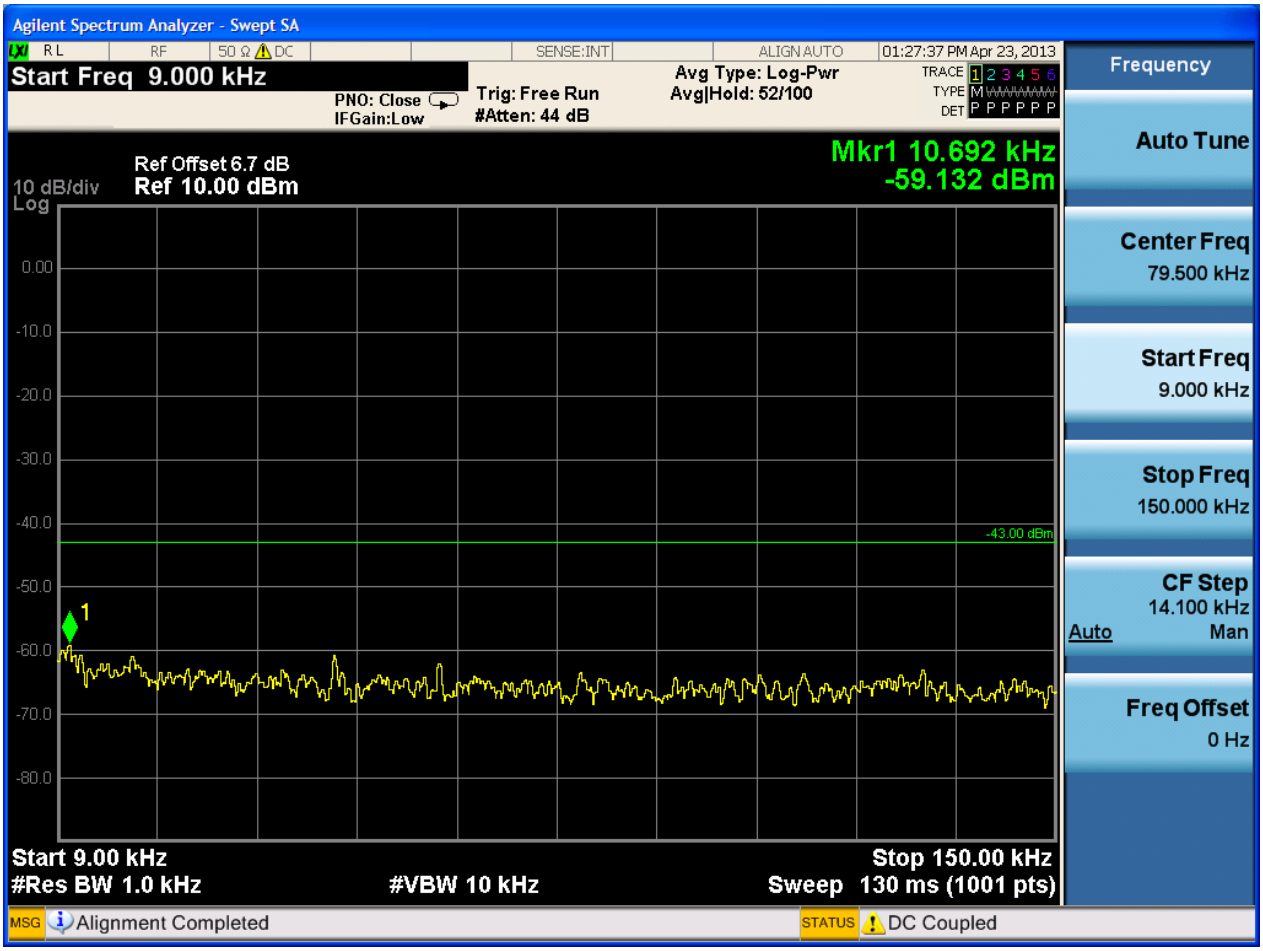
6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



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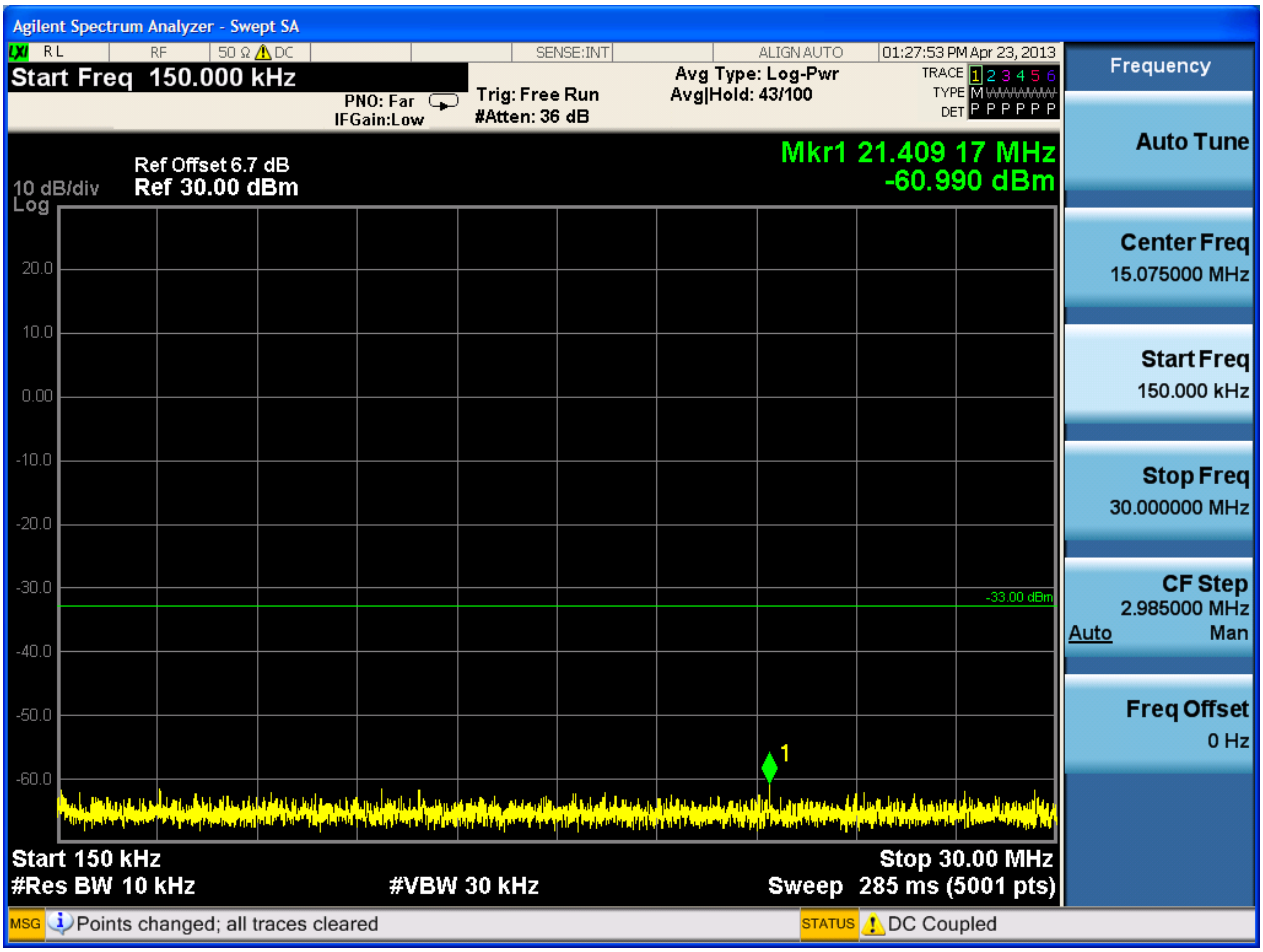

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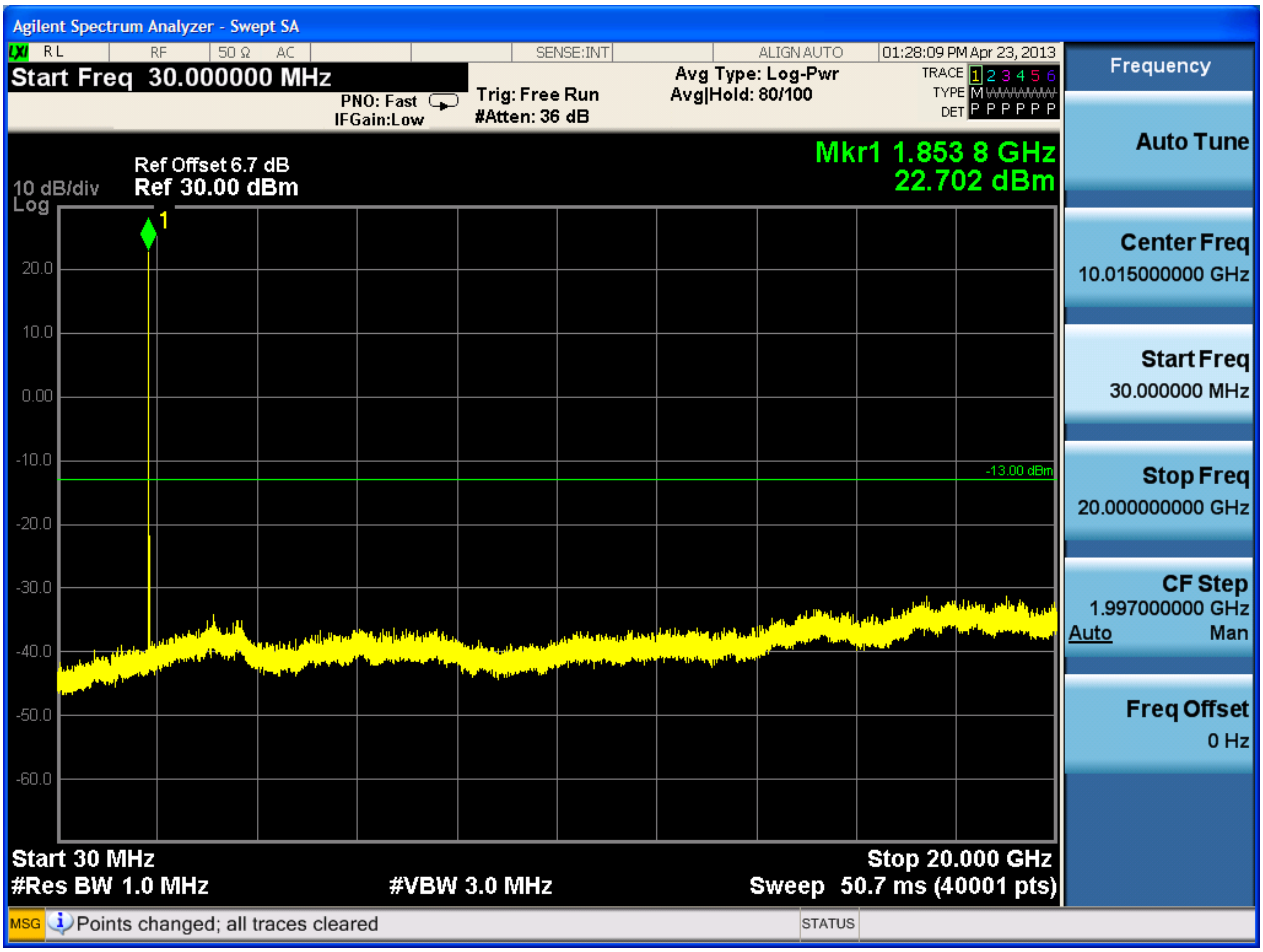

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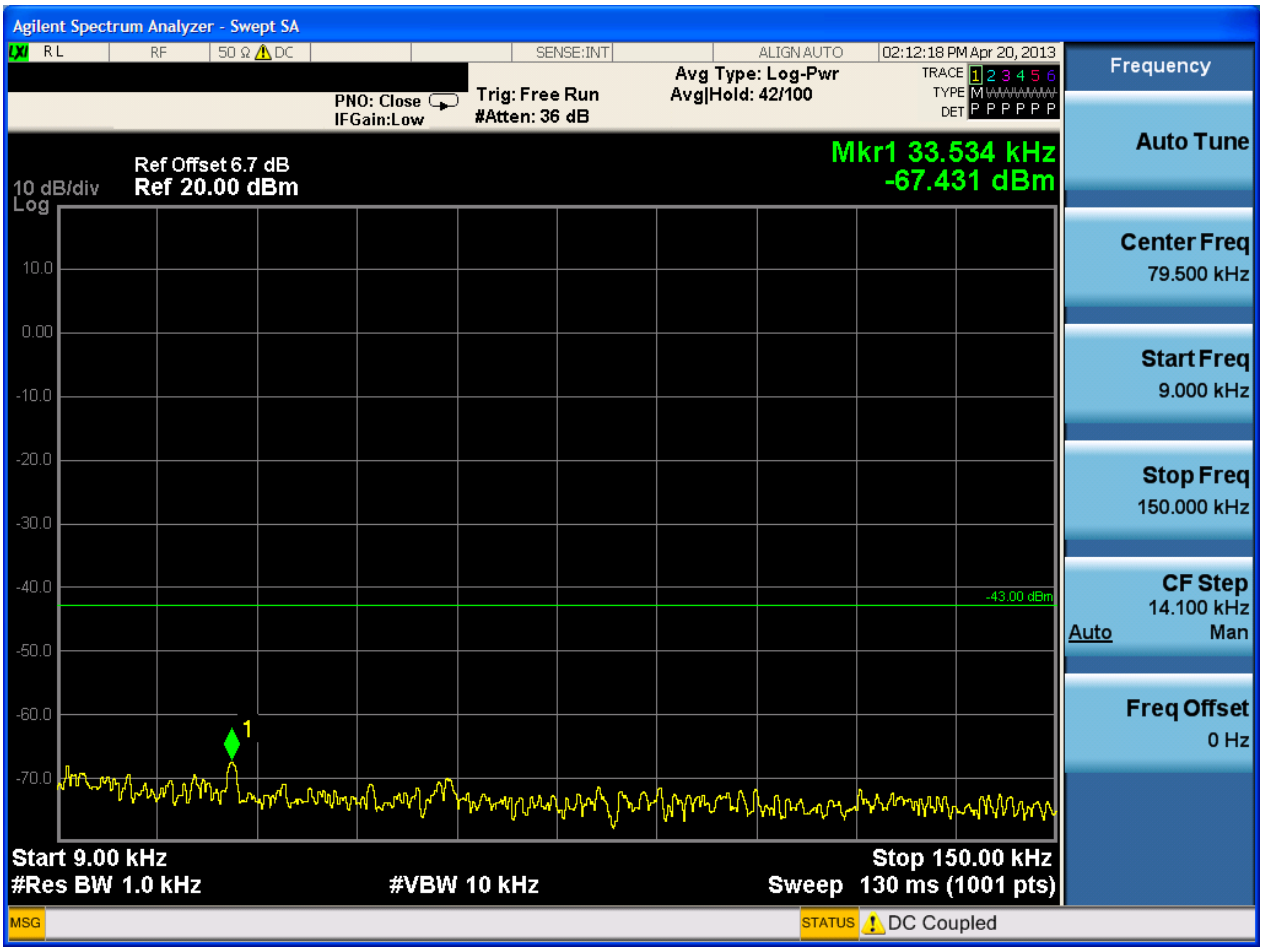
6.2.2.1.2 Test Channel = MCH



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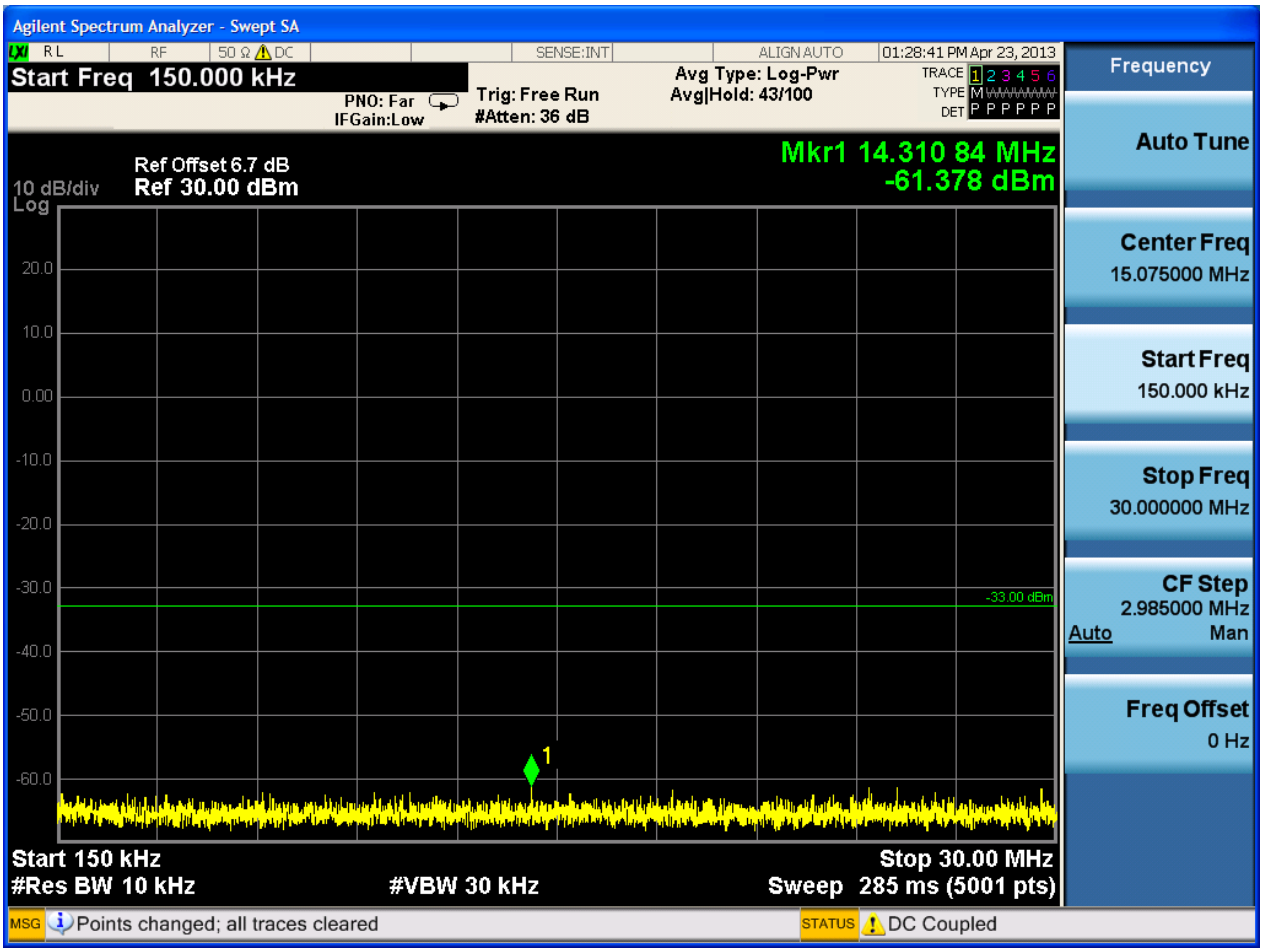

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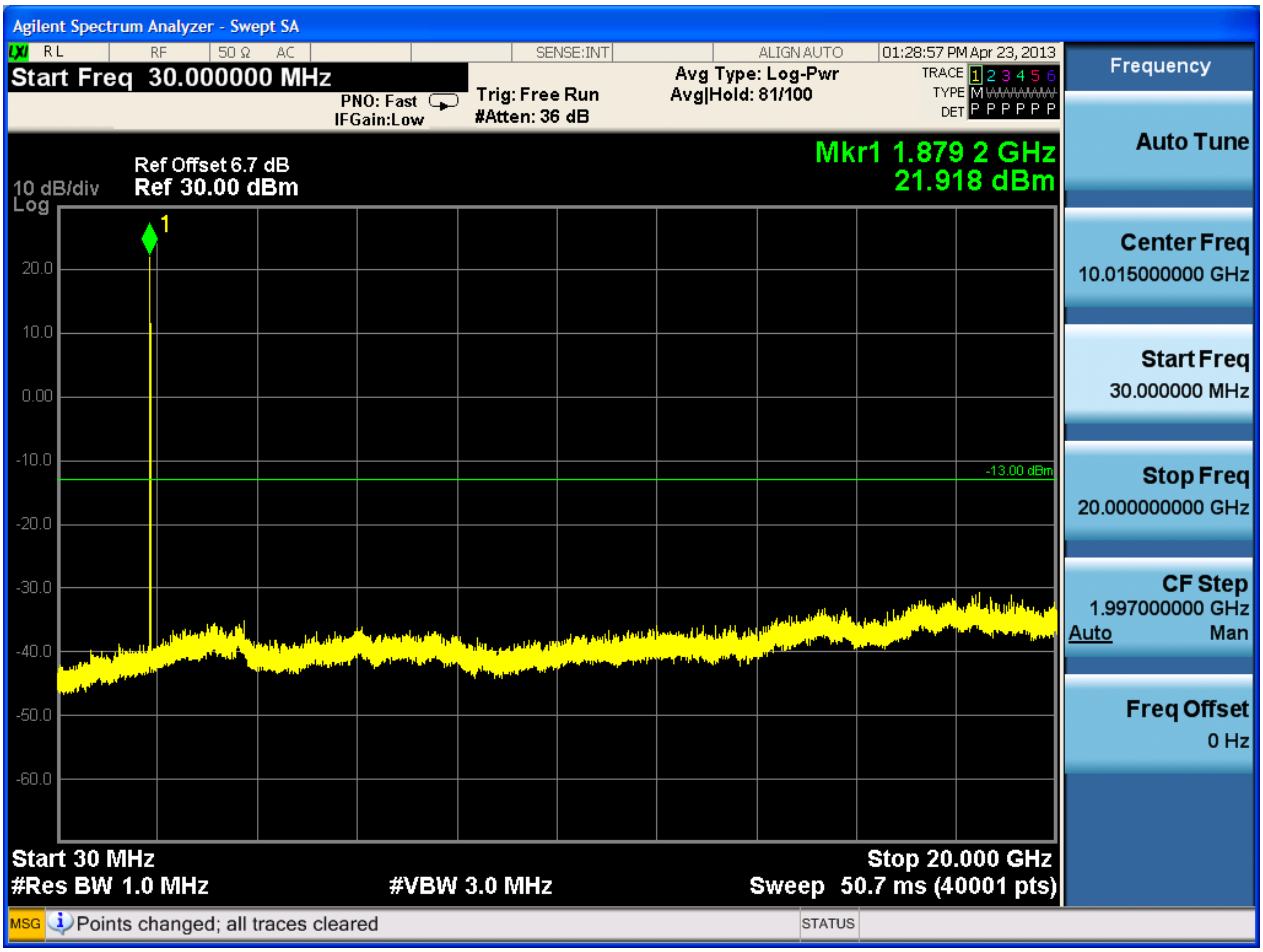

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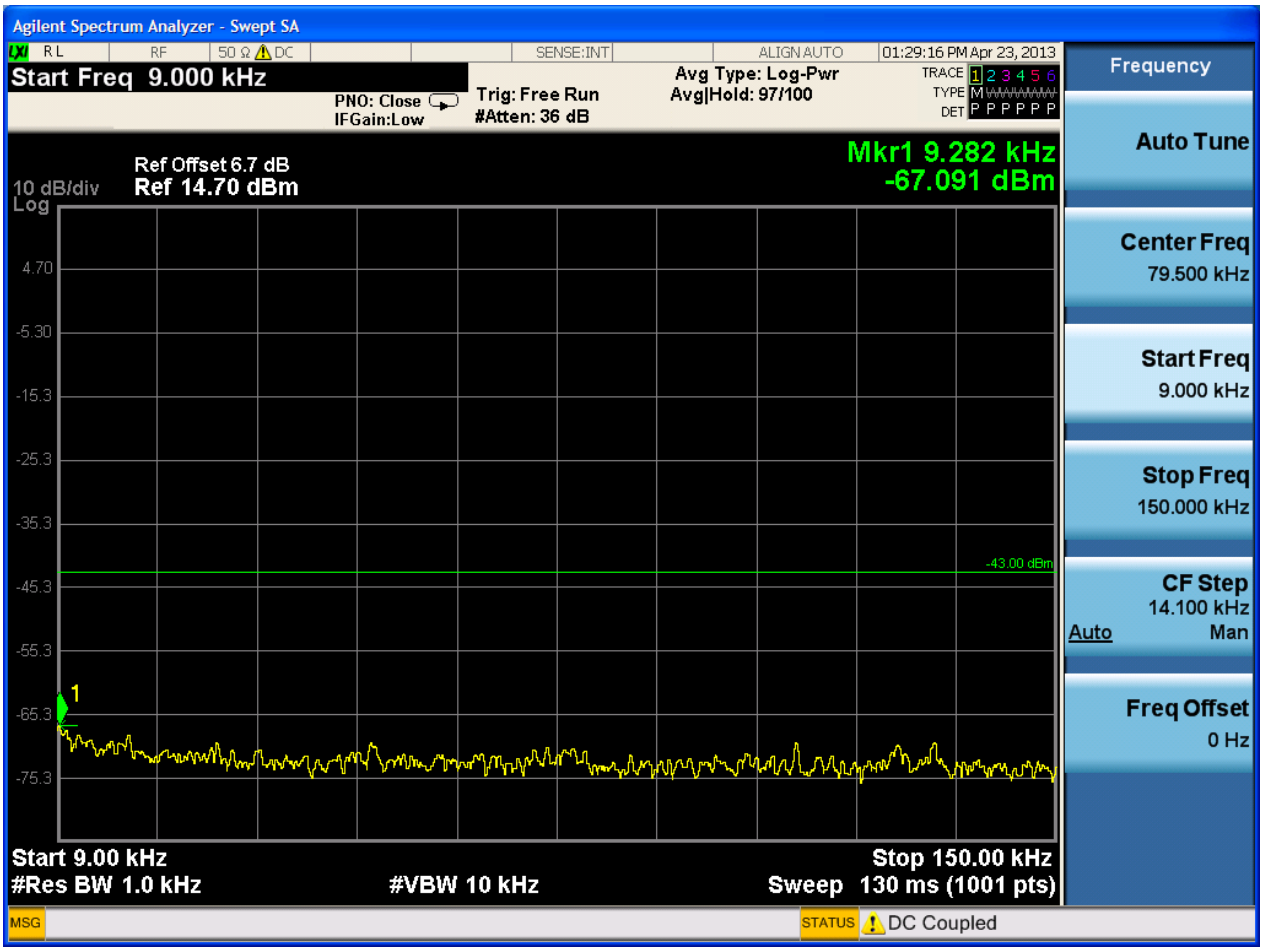
6.2.2.1.3 Test Channel = HCH



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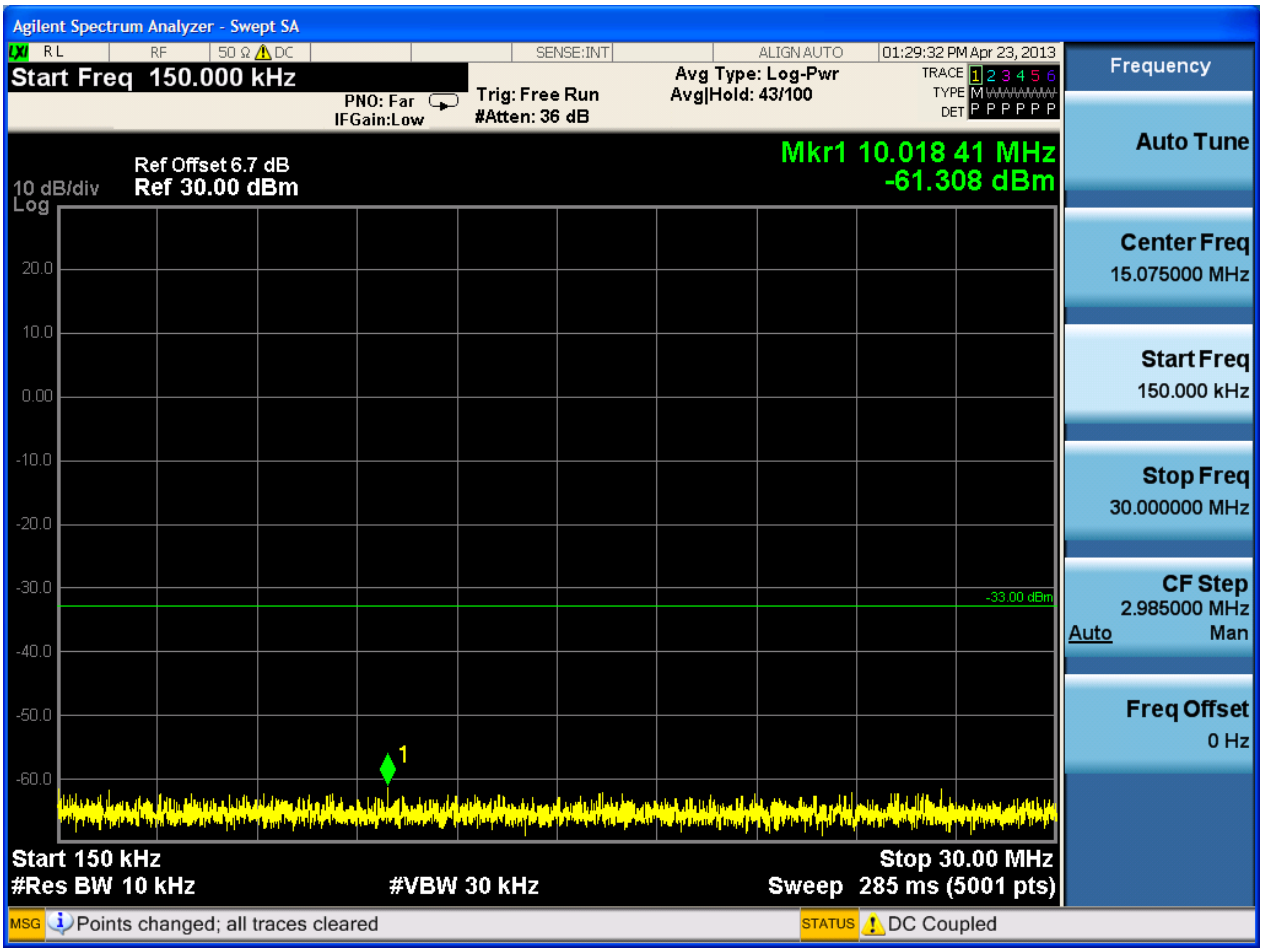

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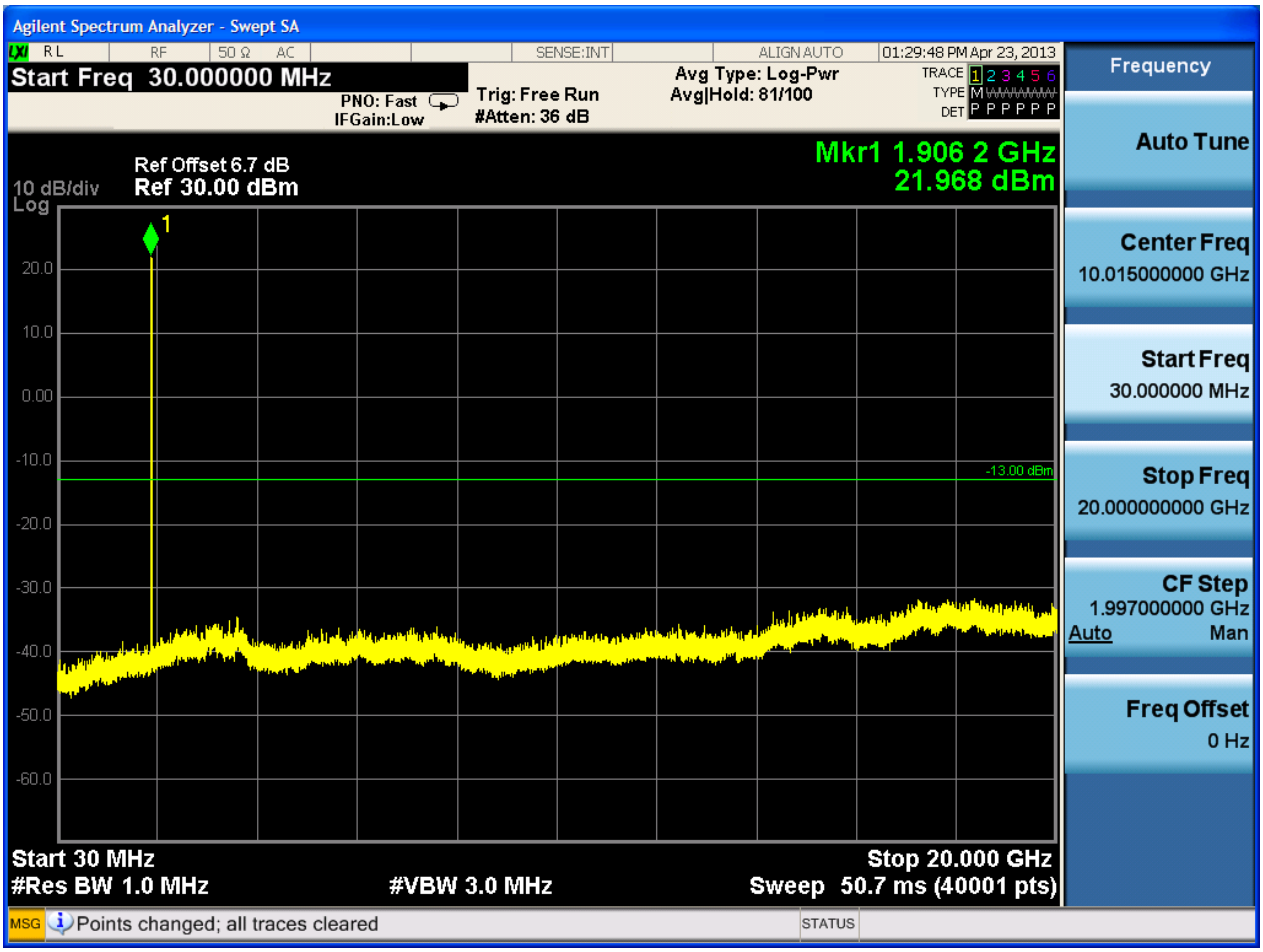

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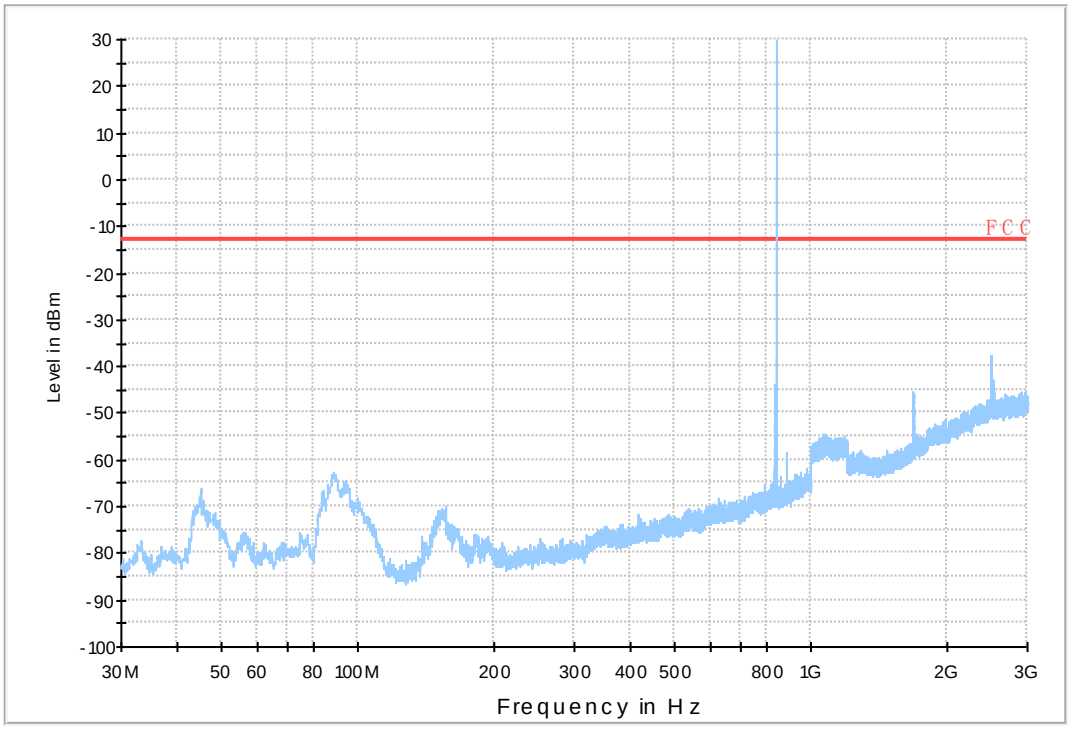
7Appendix_G: Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For GSM

7.1.1 Test Band = GSM850

7.1.1.1 Test Mode = GSM/TM1



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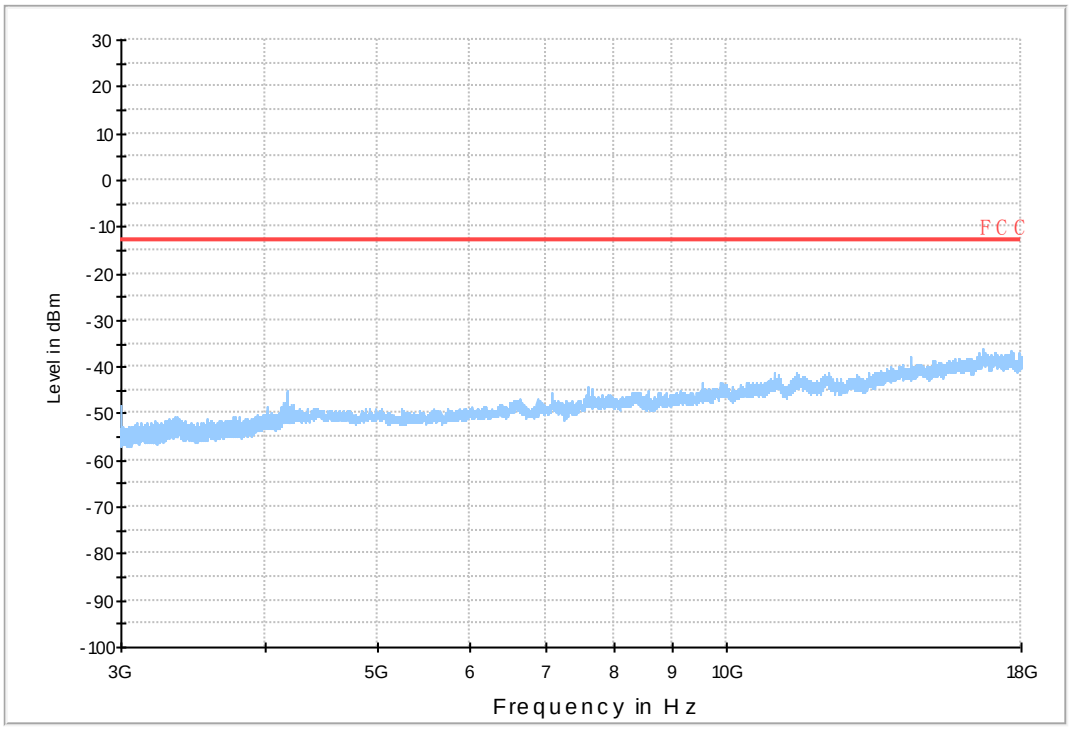
Copy of FCC PART22 GSM850_H



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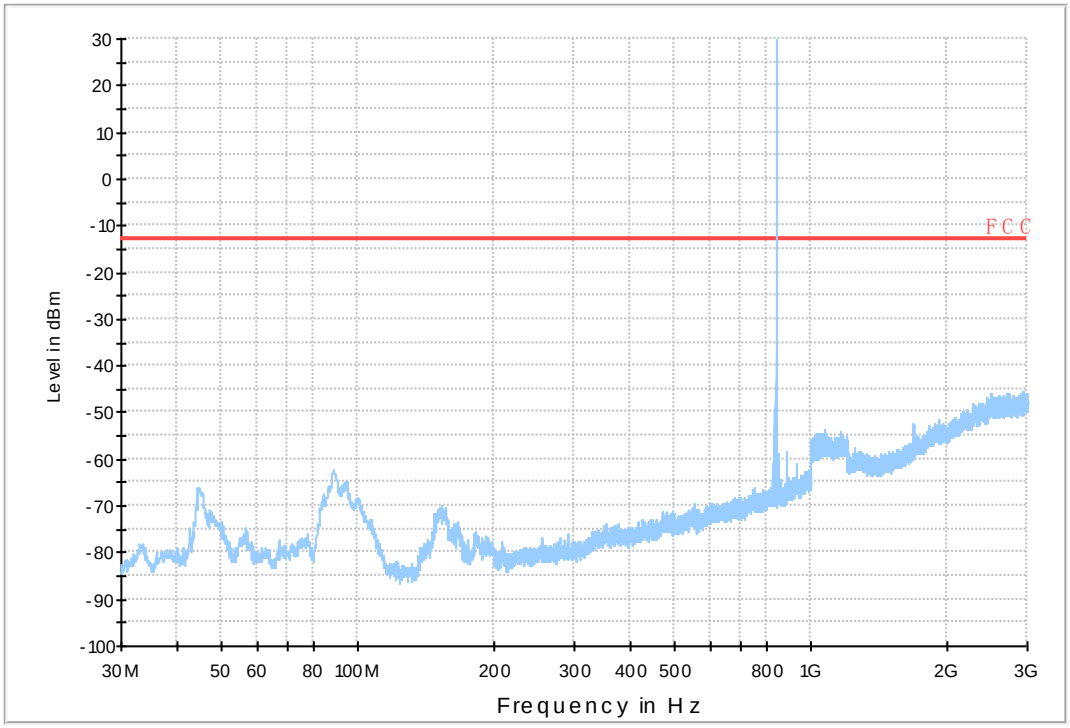
7.1.1.2 Test Mode = GSM/TM2



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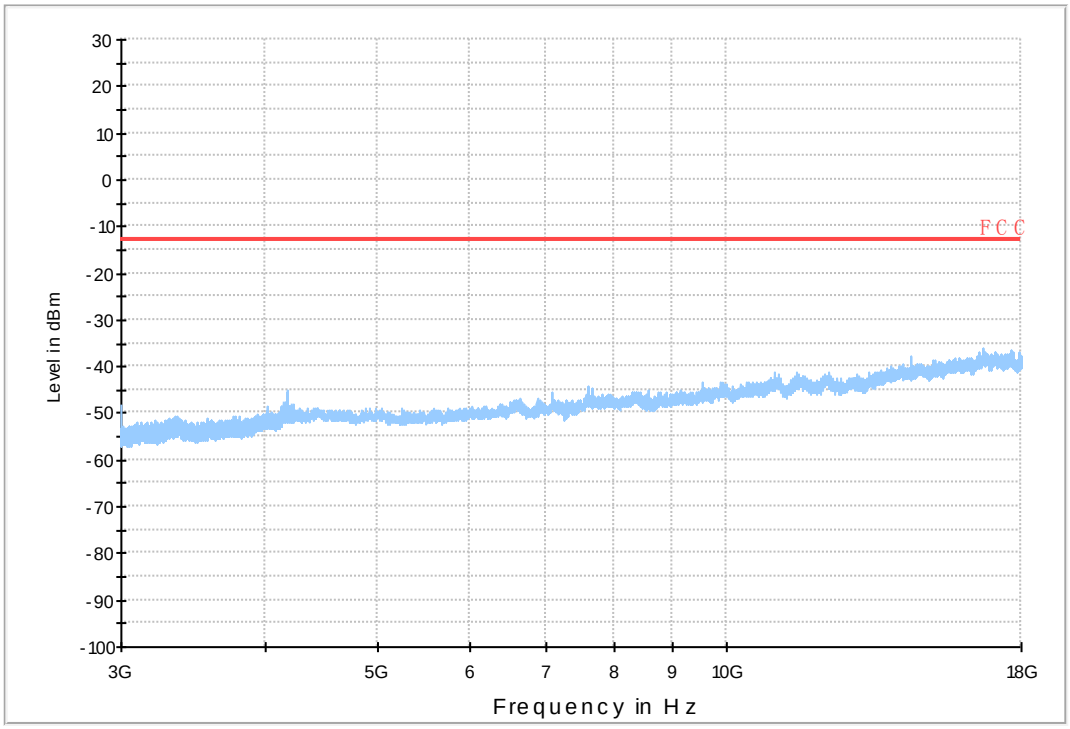
Copy of FCC PART22 GSM850_H



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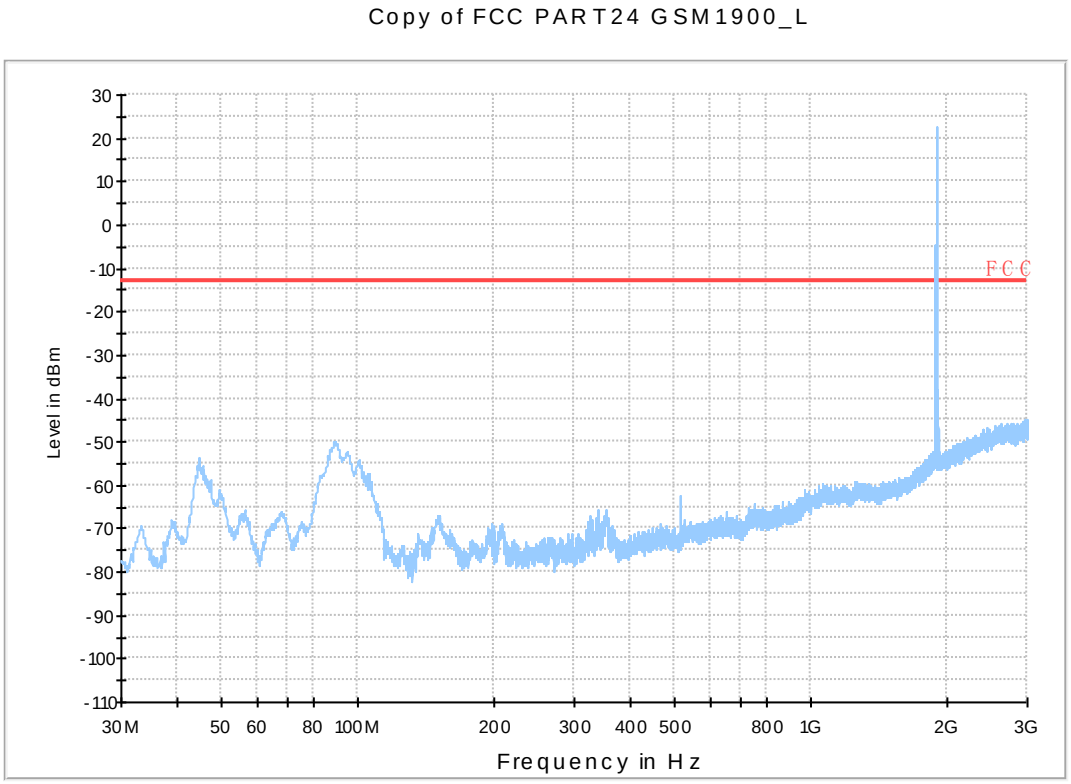
7.1.2 Test Band = GSM1900

7.1.2.1 Test Mode = GSM/TM1



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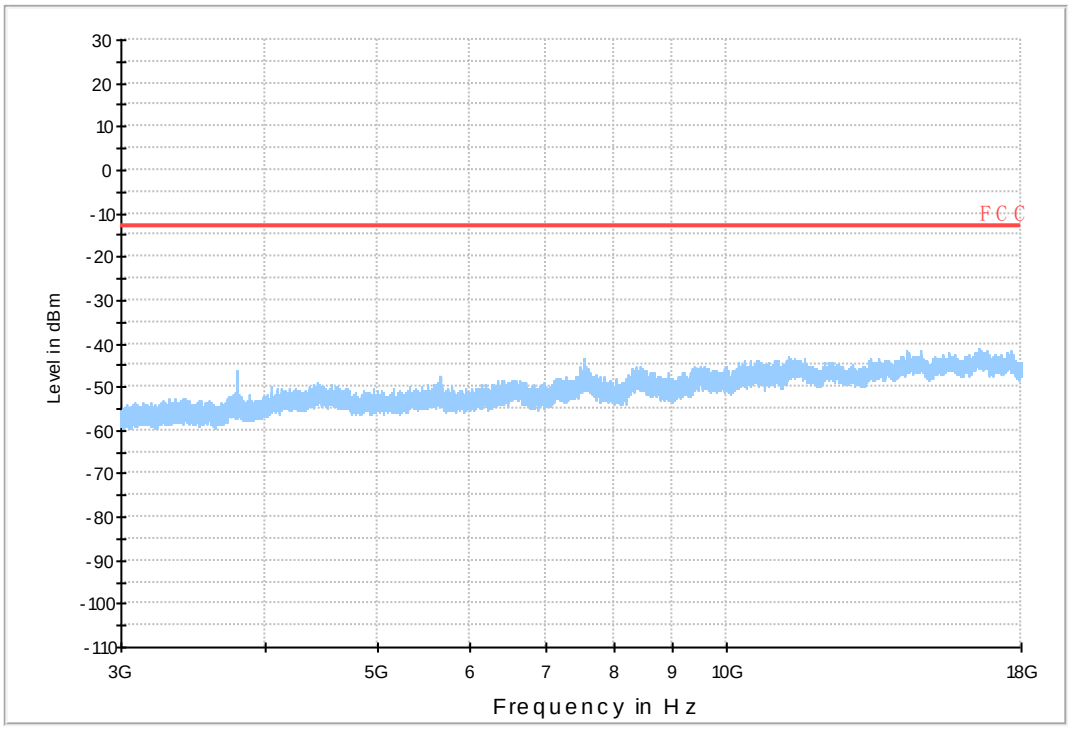

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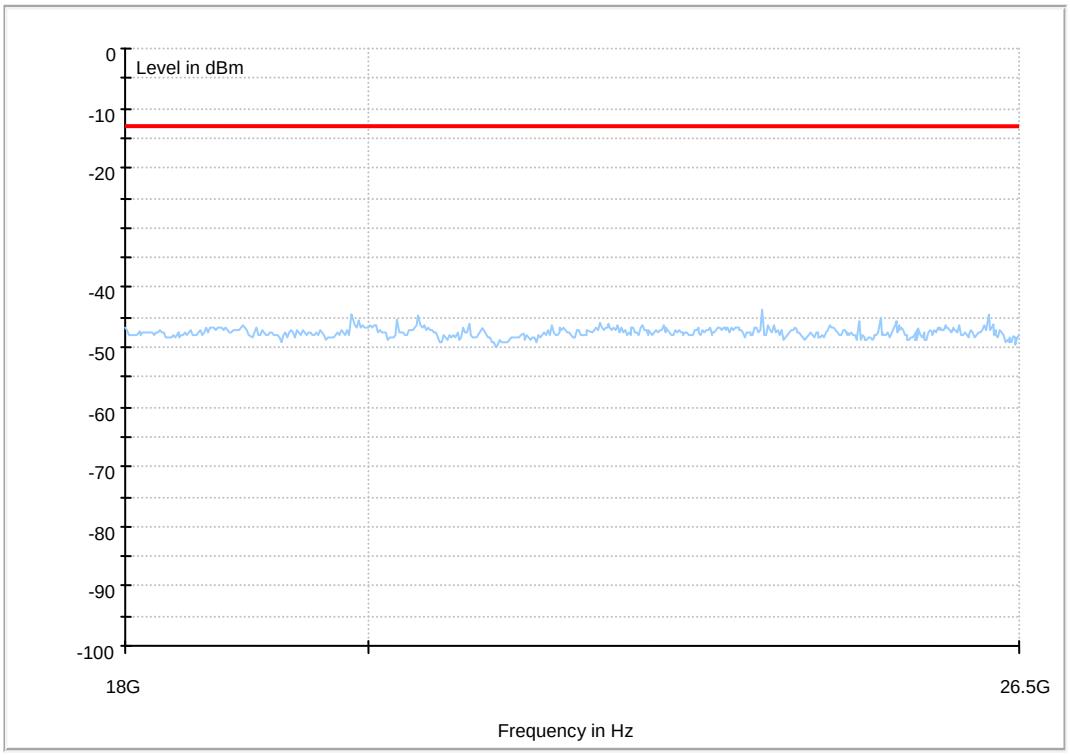

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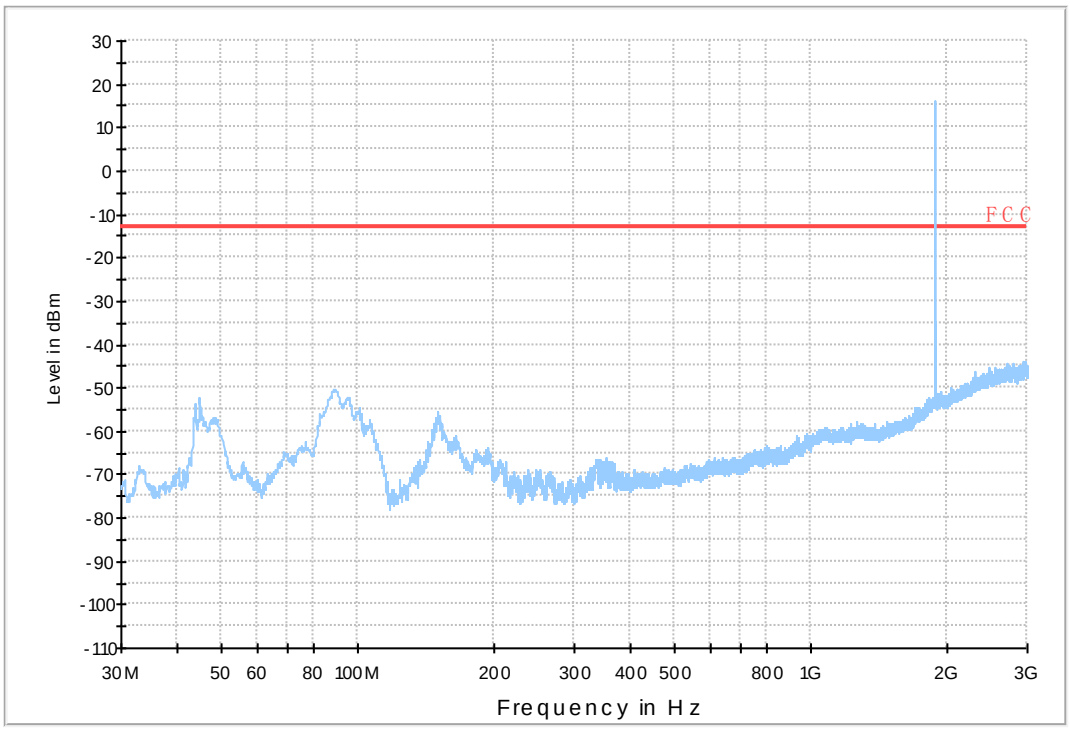
7.1.2.2 Test Mode = GSM/TM2



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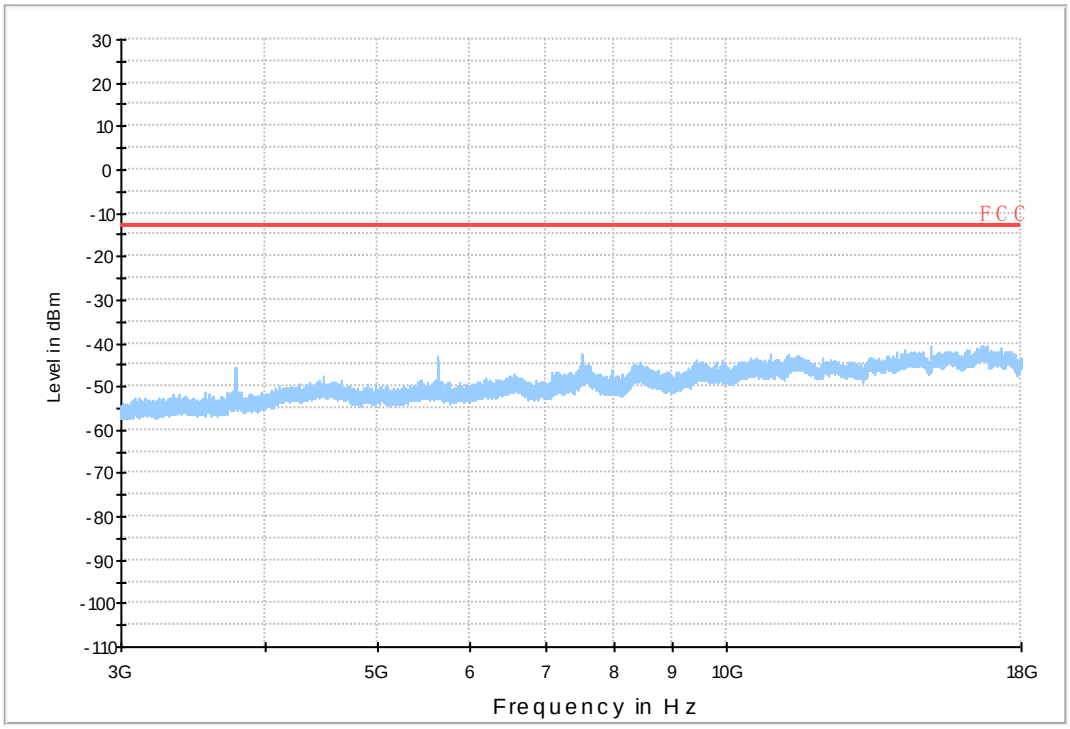

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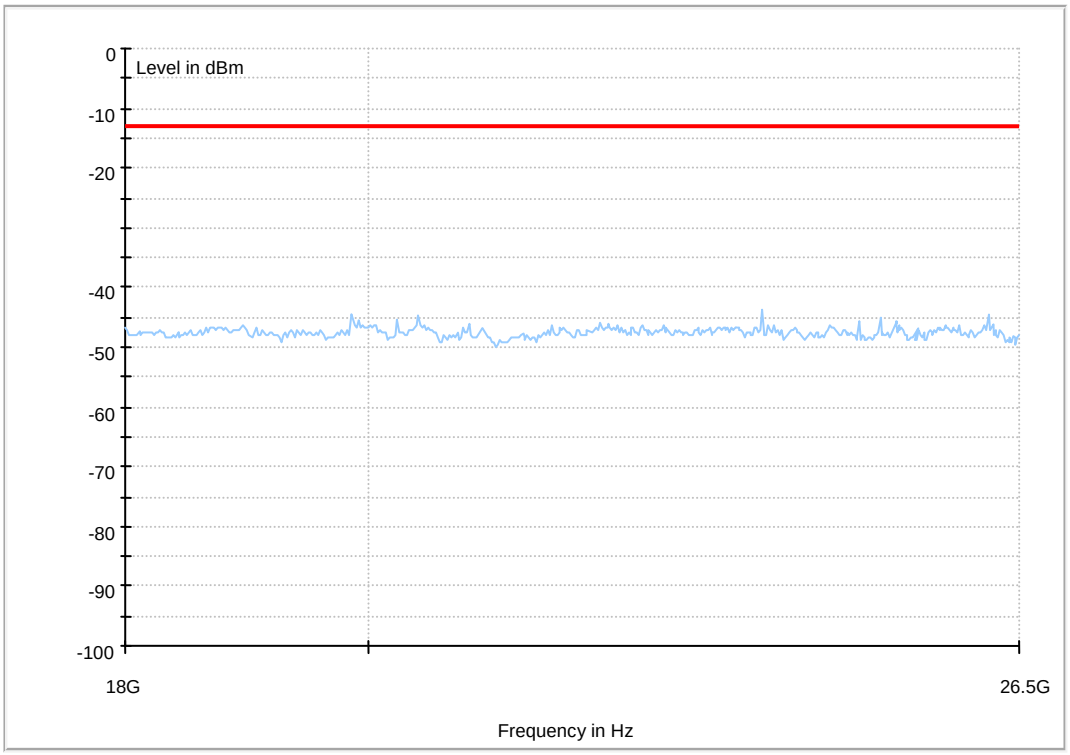

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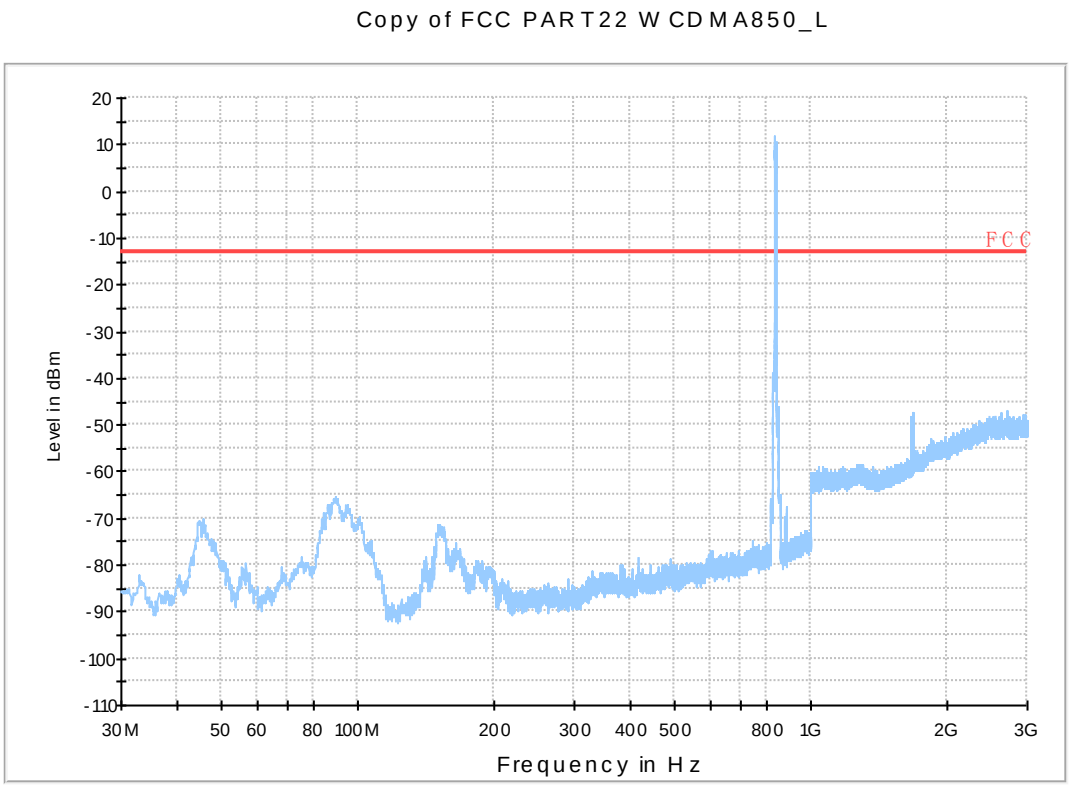
7.2 For UMTS

7.2.1 Test Band = WCDMA850

7.2.1.1 Test Mode = UMTS/TM1



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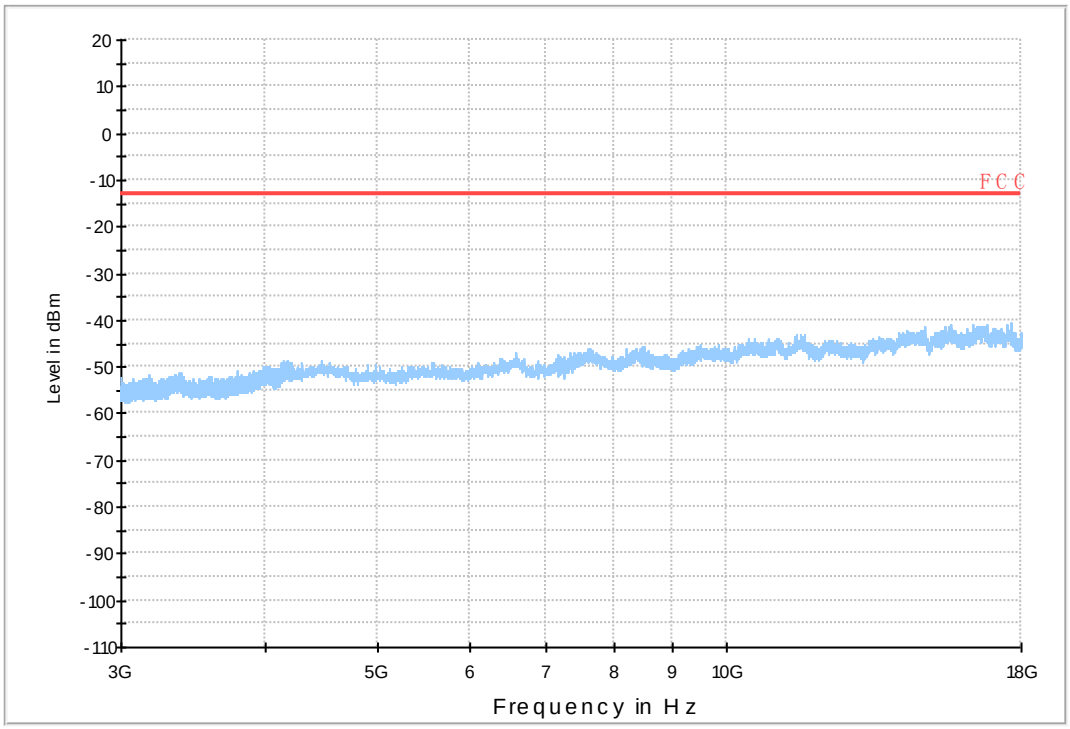

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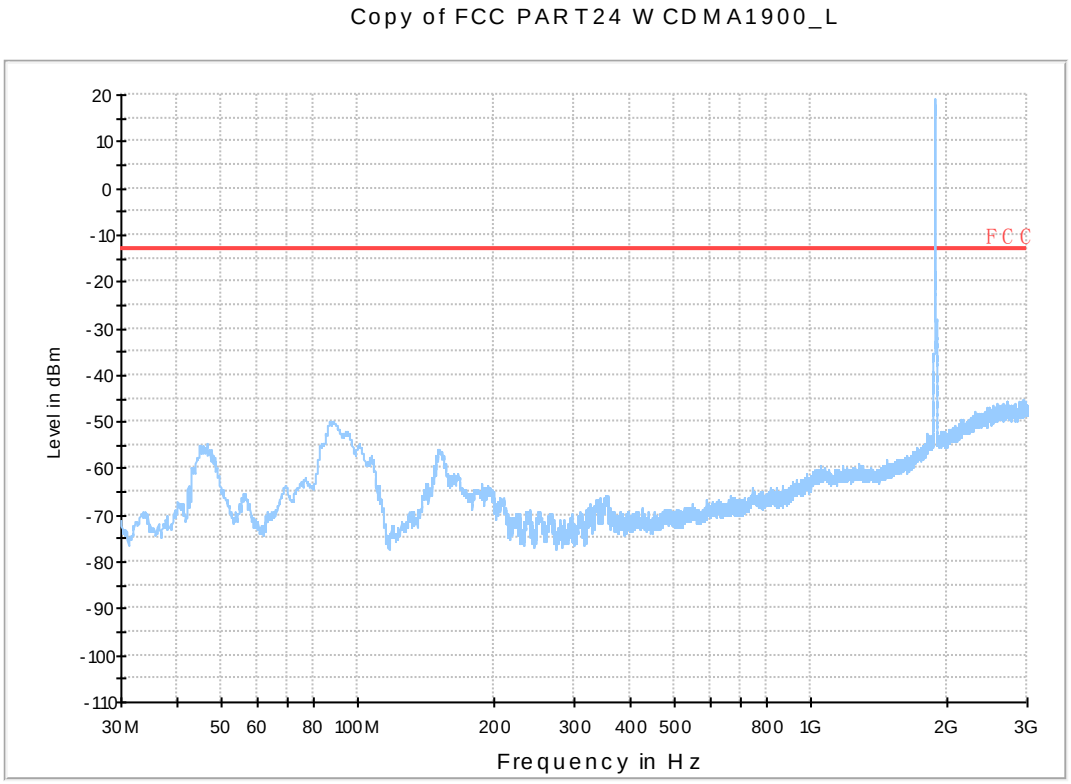
7.2.2 Test Band = WCDMA1900

7.2.2.1 Test Mode = UMTS/TM1



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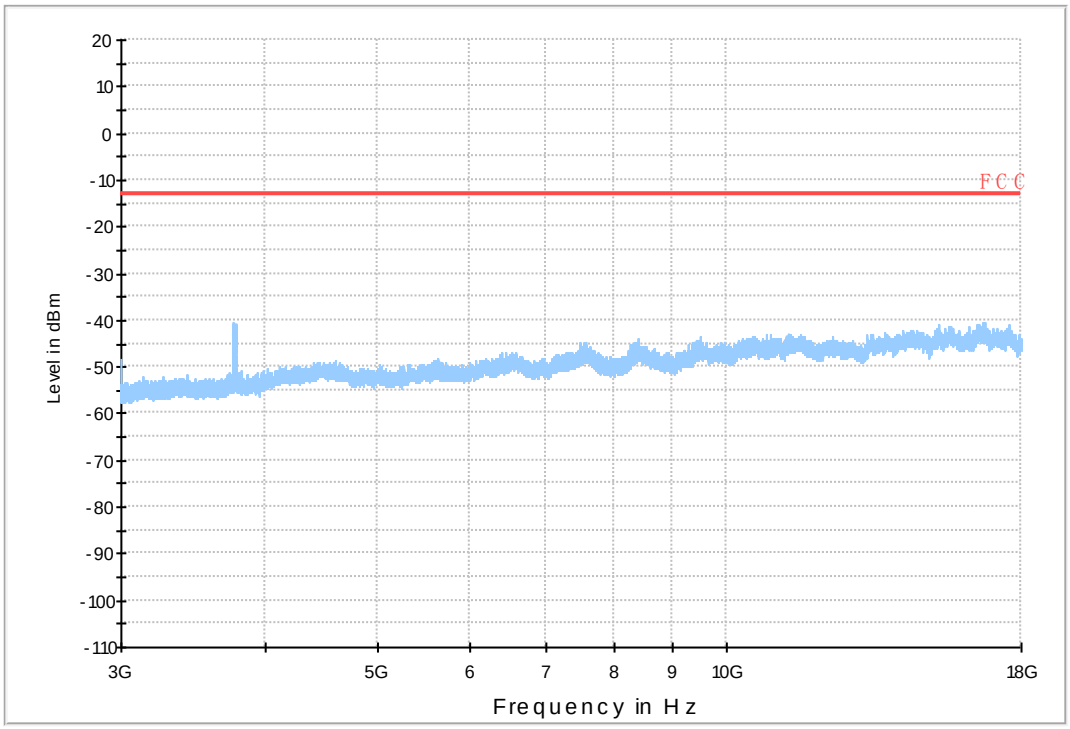

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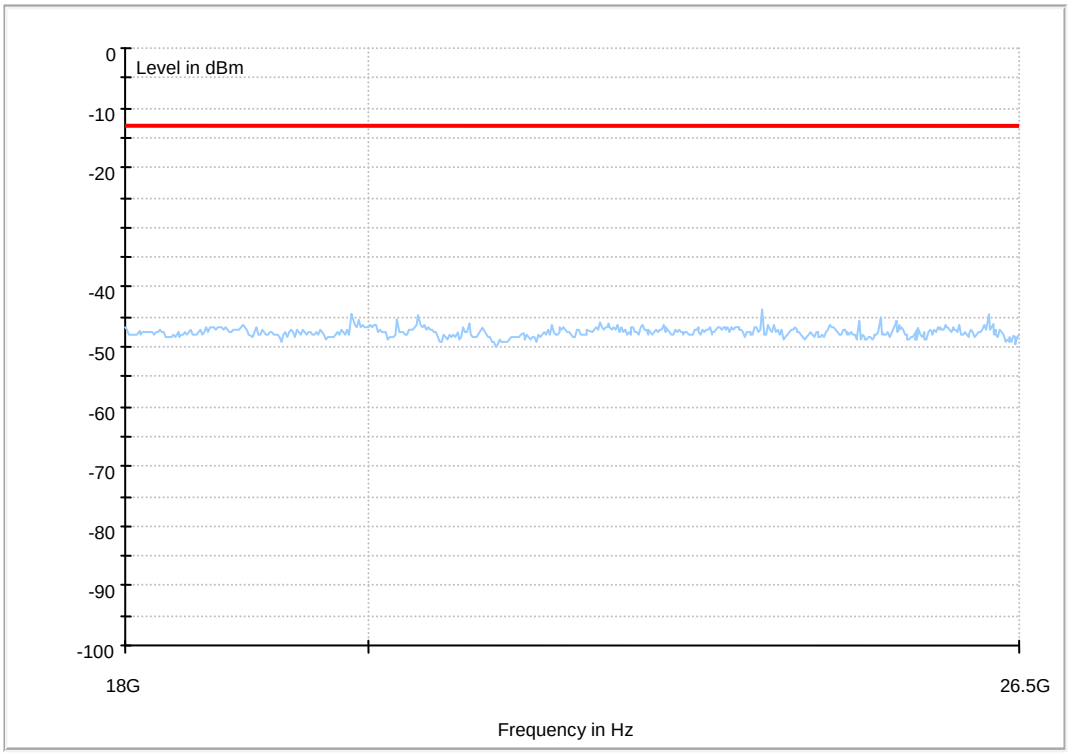

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8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-7.10	-0.00861	±2.5	PASS
				VN	-5.68	-0.00689	±2.5	PASS
				VH	-7.17	-0.0087	±2.5	PASS
		MCH	TN	VL	-8.85	-0.01058	±2.5	PASS
				VN	-13.43	-0.01605	±2.5	PASS
				VH	-11.88	-0.0142	±2.5	PASS
		HCH	TN	VL	-10.98	-0.01294	±2.5	PASS
				VN	-10.01	-0.01179	±2.5	PASS
				VH	-8.52	-0.01004	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-14.43	-0.01751	±2.5	PASS
				VN	-12.14	-0.01473	±2.5	PASS
				VH	-14.11	-0.01712	±2.5	PASS
		MCH	TN	VL	-16.34	-0.01953	±2.5	PASS
				VN	-15.11	-0.01806	±2.5	PASS
				VH	-19.31	-0.02308	±2.5	PASS
		HCH	TN	VL	-20.53	-0.02419	±2.5	PASS
				VN	-13.88	-0.01635	±2.5	PASS
				VH	-17.08	-0.02012	±2.5	PASS
GSM1900	GSM/TM1	LCH	TN	VL	0.19	0.0001	±2.5	PASS
				VN	7.17	0.00388	±2.5	PASS
				VH	5.68	0.00307	±2.5	PASS
		MCH	TN	VL	-12.66	-0.00673	±2.5	PASS
				VN	-16.72	-0.00889	±2.5	PASS
				VH	-12.53	-0.00666	±2.5	PASS
		HCH	TN	VL	-15.30	-0.00801	±2.5	PASS
				VN	-7.75	-0.00406	±2.5	PASS
				VH	-13.69	-0.00717	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-25.05	-0.01354	±2.5	PASS
				VN	-20.21	-0.01092	±2.5	PASS
				VH	-26.99	-0.01459	±2.5	PASS
		MCH	TN	VL	-26.80	-0.01426	±2.5	PASS
				VN	-22.05	-0.01173	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				VH	-20.31	-0.0108	±2.5	PASS
		HCH	TN	VL	-16.63	-0.00871	±2.5	PASS
				VN	-14.46	-0.00757	±2.5	PASS
				VH	-9.94	-0.0052	±2.5	PASS

8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-10.01	-0.01215	±2.5	PASS
				-20	-7.68	-0.00932	±2.5	PASS
				-10	-9.04	-0.01097	±2.5	PASS
				0	-9.69	-0.01176	±2.5	PASS
				10	-8.39	-0.01018	±2.5	PASS
				20	-7.68	-0.00932	±2.5	PASS
				30	-8.33	-0.01011	±2.5	PASS
				40	-6.59	-0.008	±2.5	PASS
				50	-8.07	-0.00979	±2.5	PASS
		MCH	VN	-30	-12.14	-0.01451	±2.5	PASS
				-20	-12.85	-0.01536	±2.5	PASS
				-10	-13.88	-0.01659	±2.5	PASS
				0	-12.91	-0.01543	±2.5	PASS
				10	-15.05	-0.01799	±2.5	PASS
				20	-12.85	-0.01536	±2.5	PASS
				30	-12.33	-0.01474	±2.5	PASS
				40	-13.75	-0.01644	±2.5	PASS
				50	-13.62	-0.01628	±2.5	PASS
		HCH	VN	-30	-10.33	-0.01217	±2.5	PASS
				-20	-10.91	-0.01285	±2.5	PASS
				-10	-5.81	-0.00684	±2.5	PASS
				0	-7.75	-0.00913	±2.5	PASS
				10	-7.17	-0.00845	±2.5	PASS
				20	-5.04	-0.00594	±2.5	PASS
				30	-5.88	-0.00693	±2.5	PASS
				40	-4.46	-0.00525	±2.5	PASS
				50	-8.27	-0.00974	±2.5	PASS
	GSM/TM2	LCH	VN	-30	-10.72	-0.01301	±2.5	PASS
				-20	-9.78	-0.01187	±2.5	PASS
				-10	-11.56	-0.01403	±2.5	PASS
				0	-13.04	-0.01582	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				10	-14.50	-0.01759	±2.5	PASS
				20	-12.75	-0.01547	±2.5	PASS
				30	-15.92	-0.01932	±2.5	PASS
				40	-15.24	-0.01849	±2.5	PASS
				50	-14.04	-0.01703	±2.5	PASS
		MCH	VN	-30	-13.66	-0.01633	±2.5	PASS
				-20	-18.82	-0.0225	±2.5	PASS
				-10	-16.11	-0.01926	±2.5	PASS
				0	-19.69	-0.02354	±2.5	PASS
				10	-19.05	-0.02277	±2.5	PASS
				20	-20.05	-0.02397	±2.5	PASS
				30	-21.34	-0.02551	±2.5	PASS
				40	-14.40	-0.01721	±2.5	PASS
				50	-19.40	-0.02319	±2.5	PASS
		HCH	VN	-30	-17.27	-0.02035	±2.5	PASS
				-20	-18.47	-0.02176	±2.5	PASS
				-10	-15.08	-0.01777	±2.5	PASS
				0	-19.02	-0.02241	±2.5	PASS
				10	-14.95	-0.01761	±2.5	PASS
				20	-14.01	-0.01651	±2.5	PASS
				30	-16.98	-0.02	±2.5	PASS
				40	-17.24	-0.02031	±2.5	PASS
				50	-14.43	-0.017	±2.5	PASS
GSM1900	GSM/TM1	LCH	VN	-30	-3.68	-0.00199	±2.5	PASS
				-20	0.65	0.00035	±2.5	PASS
				-10	-1.68	-0.00091	±2.5	PASS
				0	4.78	0.00258	±2.5	PASS
				10	-0.32	-0.00017	±2.5	PASS
				20	-0.90	-0.00049	±2.5	PASS
				30	5.81	0.00314	±2.5	PASS
				40	4.26	0.0023	±2.5	PASS
				50	-0.65	-0.00035	±2.5	PASS
		MCH	VN	-30	-16.47	-0.00876	±2.5	PASS
				-20	-20.28	-0.01079	±2.5	PASS
				-10	-27.12	-0.01443	±2.5	PASS
				0	-20.60	-0.01096	±2.5	PASS
				10	-19.89	-0.01058	±2.5	PASS
				20	-23.96	-0.01274	±2.5	PASS
				30	-23.05	-0.01226	±2.5	PASS
				40	-16.66	-0.00886	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				50	-17.05	-0.00907	±2.5	PASS
		HCH	VN	-30	-6.91	-0.00362	±2.5	PASS
				-20	-14.27	-0.00747	±2.5	PASS
				-10	-11.36	-0.00595	±2.5	PASS
				0	-9.43	-0.00494	±2.5	PASS
				10	-9.10	-0.00476	±2.5	PASS
				20	-8.39	-0.00439	±2.5	PASS
				30	-9.81	-0.00514	±2.5	PASS
				40	-14.01	-0.00734	±2.5	PASS
				50	-8.33	-0.00436	±2.5	PASS
	GSM/TM2	LCH	VN	-30	-4.85	-0.00263	±2.5	PASS
				-20	0.25	0.00013	±2.5	PASS
				-10	-8.11	-0.00439	±2.5	PASS
				0	-1.79	-0.00097	±2.5	PASS
				10	16.55	0.00894	±2.5	PASS
				20	-6.98	-0.00378	±2.5	PASS
				30	-7.11	-0.00385	±2.5	PASS
				40	-6.05	-0.00327	±2.5	PASS
				50	-9.34	-0.00505	±2.5	PASS
		MCH	VN	-30	-20.09	-0.01069	±2.5	PASS
				-20	-9.37	-0.00499	±2.5	PASS
				-10	-7.92	-0.00422	±2.5	PASS
				0	-7.6	-0.00405	±2.5	PASS
				10	-14.93	-0.00795	±2.5	PASS
				20	-8.89	-0.00473	±2.5	PASS
				30	-9.79	-0.00521	±2.5	PASS
				40	-7.69	-0.0041	±2.5	PASS
				50	-11.63	-0.00619	±2.5	PASS
		HCH	VN	-30	13.87	0.00726	±2.5	PASS
				-20	-7.95	-0.00417	±2.5	PASS
				-10	-4.08	-0.00214	±2.5	PASS
				0	-4.95	-0.0026	±2.5	PASS
				10	-11.12	-0.00583	±2.5	PASS
				20	-2.21	-0.00116	±2.5	PASS
				30	-10.41	-0.00546	±2.5	PASS
				40	-31.78	-0.01665	±2.5	PASS
				50	-25.45	-0.01333	±2.5	PASS

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8.2 For UMTS

8.2.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	-1.13	-0.00137	±2.5	PASS
				VN	-3.22	-0.0039	±2.5	PASS
				VH	-4.20	-0.00508	±2.5	PASS
		MCH	TN	VL	-7.11	-0.0085	±2.5	PASS
				VN	4.90	0.00586	±2.5	PASS
				VH	-4.76	-0.00569	±2.5	PASS
		HCH	TN	VL	-2.55	-0.00301	±2.5	PASS
				VN	-0.70	-0.00083	±2.5	PASS
				VH	-7.90	-0.00933	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	1.37	0.00074	±2.5	PASS
				VN	6.29	0.0034	±2.5	PASS
				VH	5.49	0.00296	±2.5	PASS
		MCH	TN	VL	4.18	0.00222	±2.5	PASS
				VN	-1.83	-0.00097	±2.5	PASS
				VH	-1.27	-0.00068	±2.5	PASS
		HCH	TN	VL	0.58	0.0003	±2.5	PASS
				VN	3.45	0.00181	±2.5	PASS
				VH	4.53	0.00237	±2.5	PASS

8.2.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	-1.86	-0.00225	±2.5	PASS
				-20	-0.24	-0.00029	±2.5	PASS
				-10	3.60	0.00436	±2.5	PASS
				0	2.15	0.0026	±2.5	PASS
				10	3.54	0.00428	±2.5	PASS
				20	-0.85	-0.00103	±2.5	PASS
				30	-5.81	-0.00703	±2.5	PASS
				40	0.27	0.00033	±2.5	PASS
				50	6.23	0.00754	±2.5	PASS
		MCH	VN	-30	-2.00	-0.00239	±2.5	PASS
				-20	0.73	0.00087	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				-10	-5.20	-0.00622	±2.5	PASS
				0	4.67	0.00558	±2.5	PASS
				10	-4.12	-0.00493	±2.5	PASS
				20	4.32	0.00516	±2.5	PASS
				30	-0.66	-0.00079	±2.5	PASS
				40	-5.89	-0.00704	±2.5	PASS
				50	-1.14	-0.00136	±2.5	PASS
		HCH	VN	-30	-2.00	-0.00236	±2.5	PASS
				-20	-2.21	-0.00261	±2.5	PASS
				-10	-0.15	-0.00018	±2.5	PASS
				0	-6.70	-0.00791	±2.5	PASS
				10	-6.06	-0.00716	±2.5	PASS
				20	-9.93	-0.01173	±2.5	PASS
				30	0.93	0.0011	±2.5	PASS
				40	0.98	0.00116	±2.5	PASS
				50	1.34	0.00158	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	0.09	0.00005	±2.5	PASS
				-20	1.91	0.00103	±2.5	PASS
				-10	-2.62	-0.00141	±2.5	PASS
				0	-0.72	-0.00039	±2.5	PASS
				10	3.62	0.00195	±2.5	PASS
				20	4.94	0.00267	±2.5	PASS
				30	-4.27	-0.00231	±2.5	PASS
				40	-1.74	-0.00094	±2.5	PASS
				50	-0.53	-0.00029	±2.5	PASS
		MCH	VN	-30	-1.88	-0.001	±2.5	PASS
				-20	1.37	0.00073	±2.5	PASS
				-10	-0.06	-0.00003	±2.5	PASS
				0	3.77	0.00201	±2.5	PASS
				10	-7.20	-0.00383	±2.5	PASS
				20	0.05	0.00003	±2.5	PASS
				30	6.53	0.00347	±2.5	PASS
				40	5.25	0.00279	±2.5	PASS
				50	3.51	0.00187	±2.5	PASS
		HCH	VN	-30	1.59	0.00083	±2.5	PASS
				-20	-0.41	-0.00021	±2.5	PASS
				-10	3.27	0.00171	±2.5	PASS
				0	-9.86	-0.00517	±2.5	PASS
				10	1.57	0.00082	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				20	-6.18	-0.00324	±2.5	PASS
				30	-3.71	-0.00194	±2.5	PASS
				40	-3.33	-0.00175	±2.5	PASS
				50	-8.45	-0.00443	±2.5	PASS

END

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