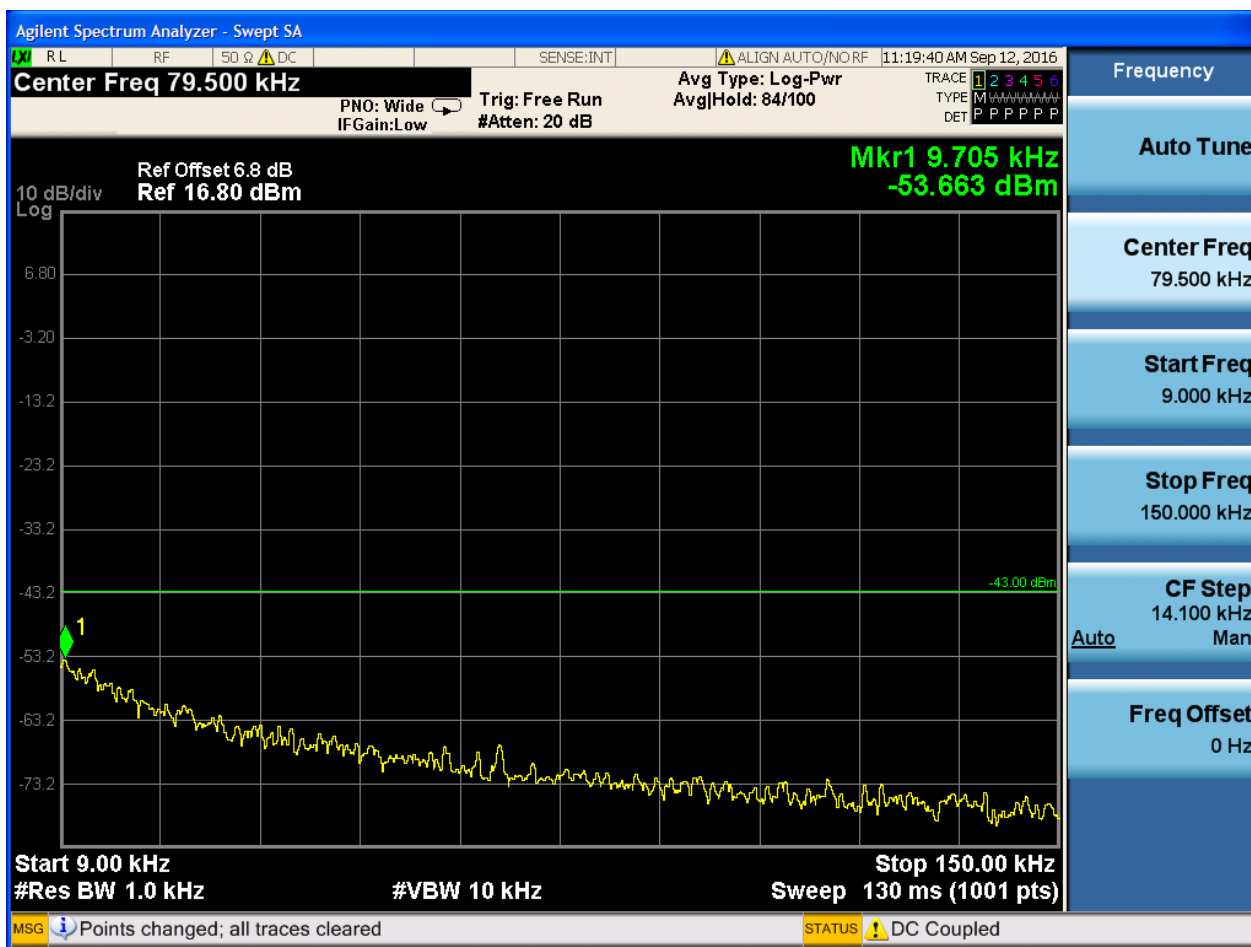
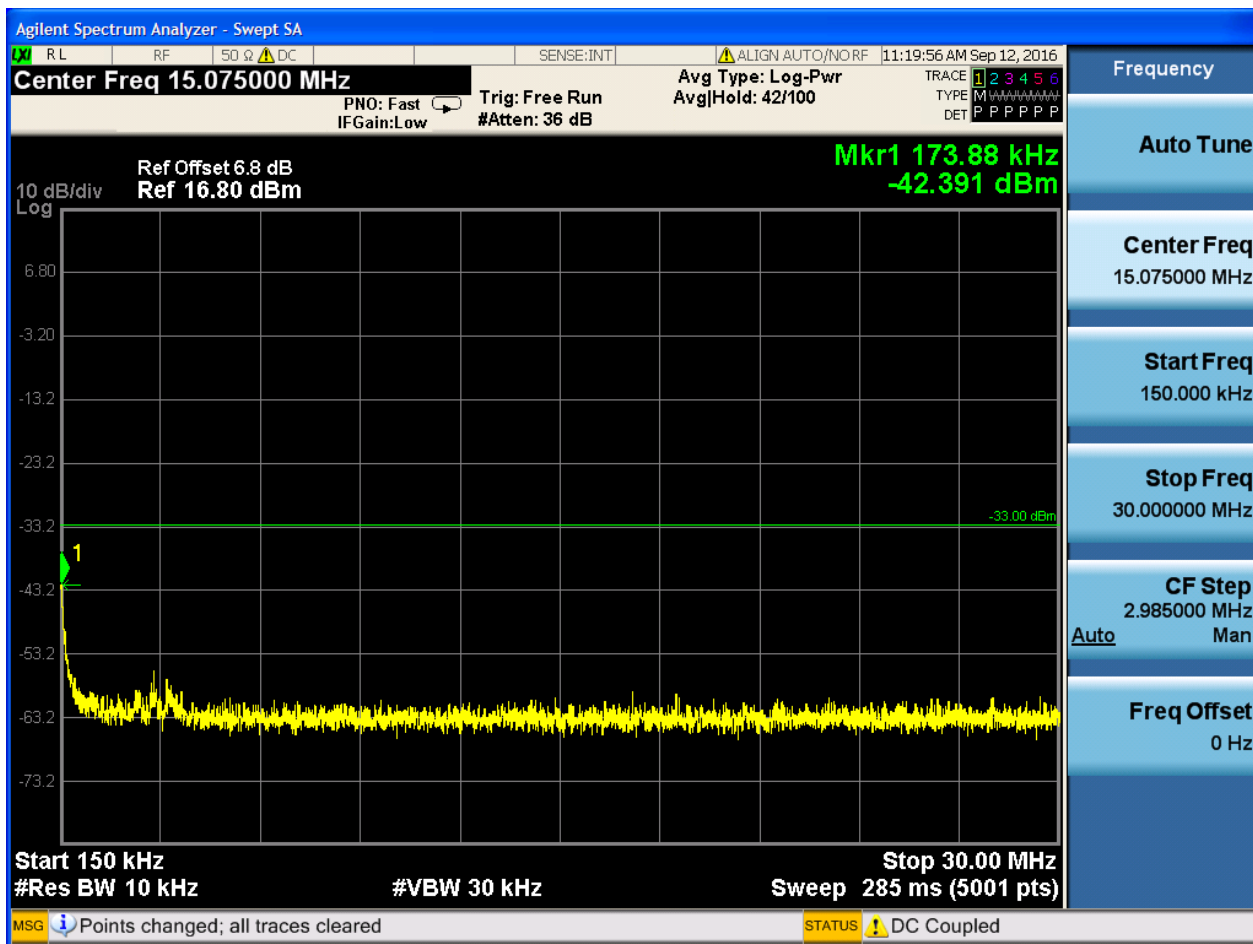
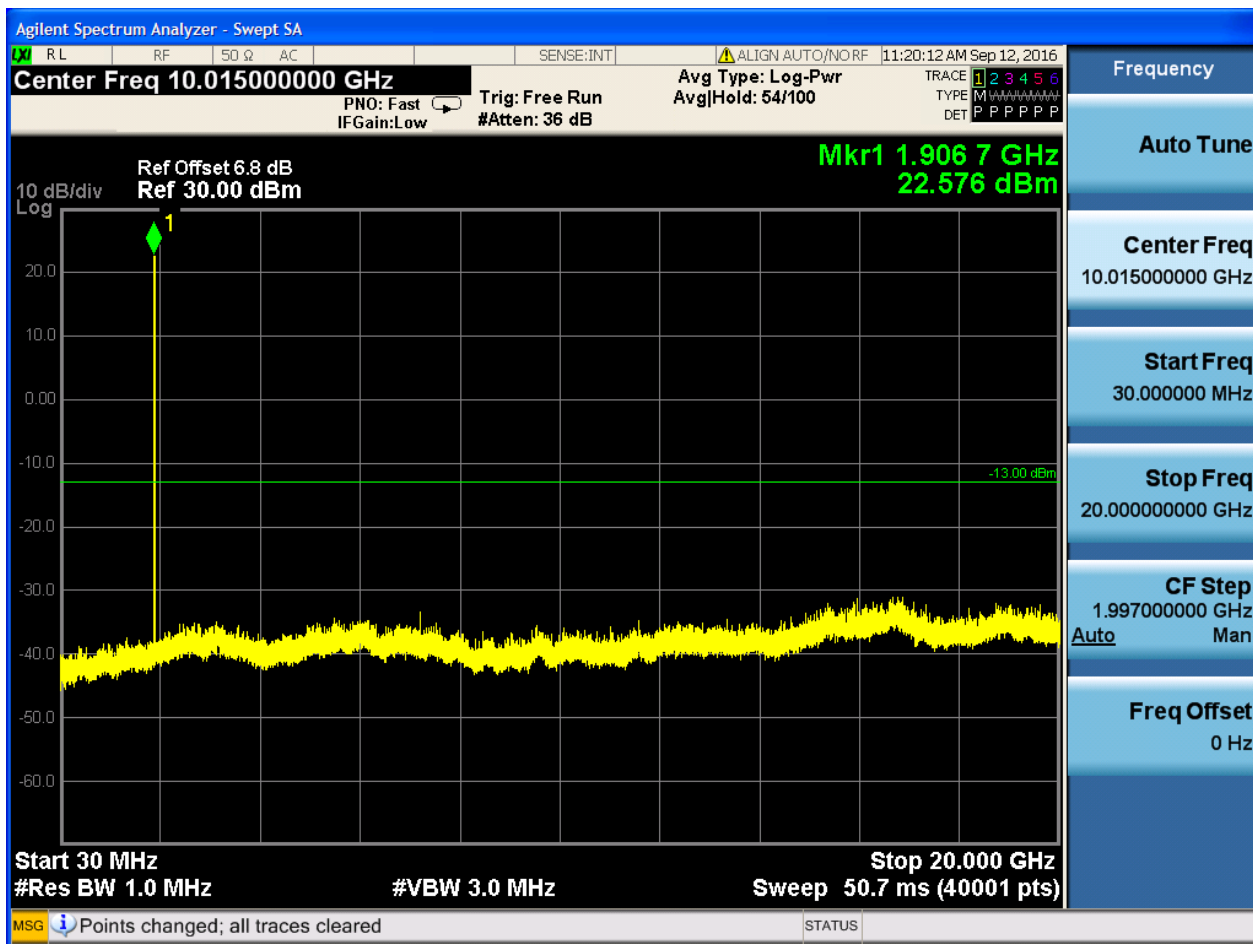


6.2.3.1.3 Test Channel = HCH







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

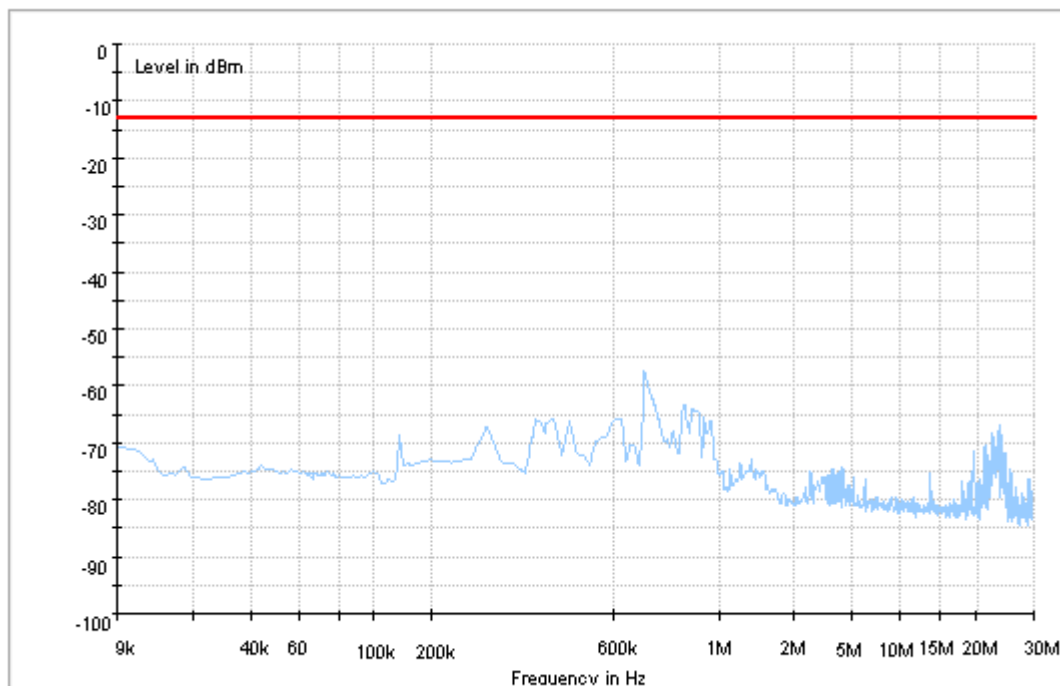
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

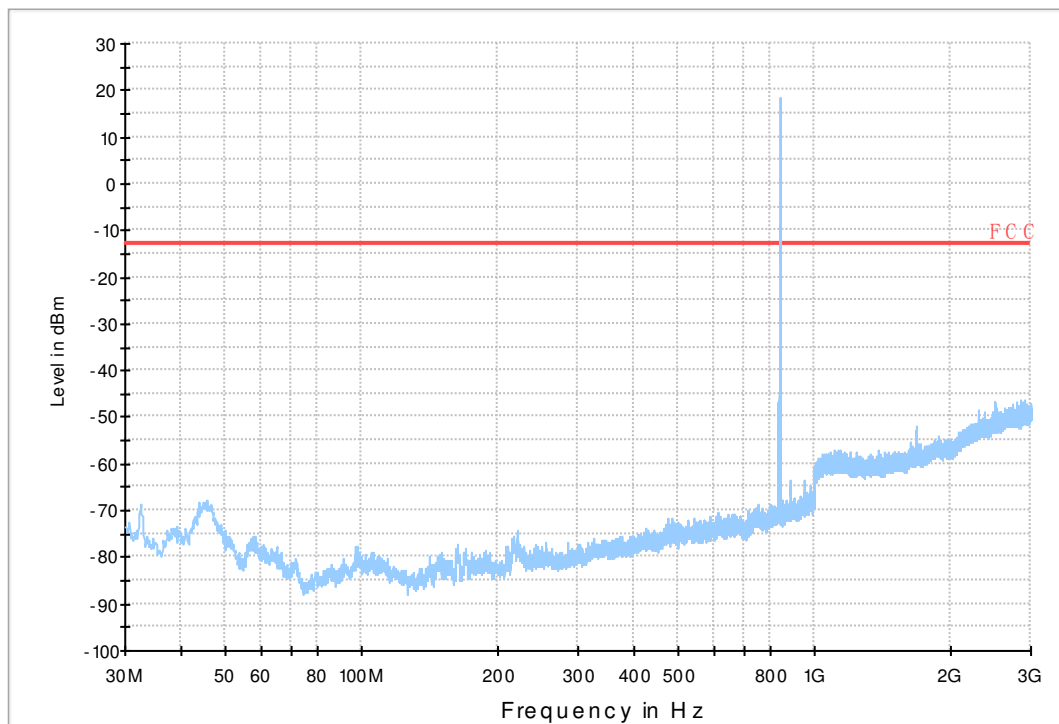
7.1 For GSM

7.1.1 Test Band = GSM850

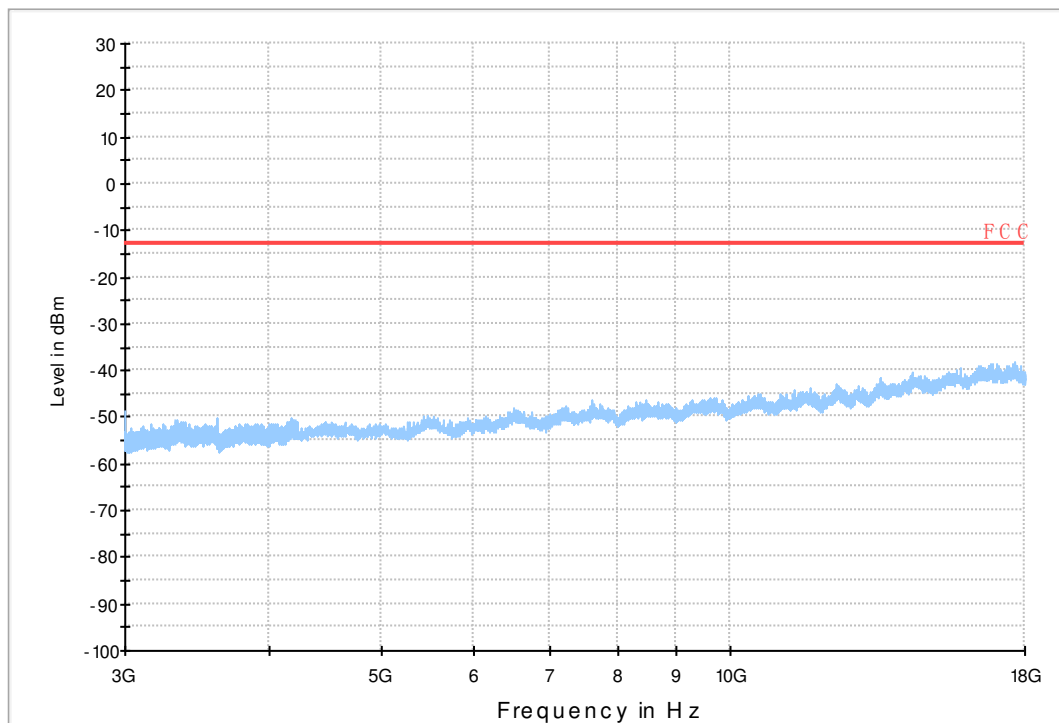
7.1.1.1 Test Mode = GSM/TM1



Copy of FCC PART22 GSM850_L

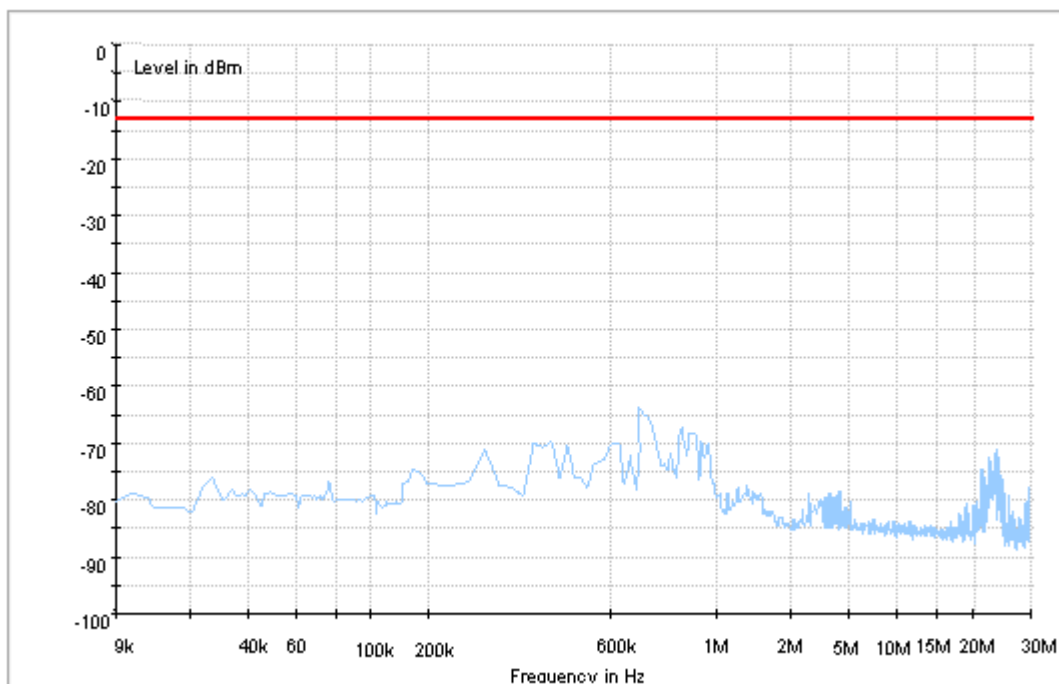


Copy of FCC PART22 GSM850_H

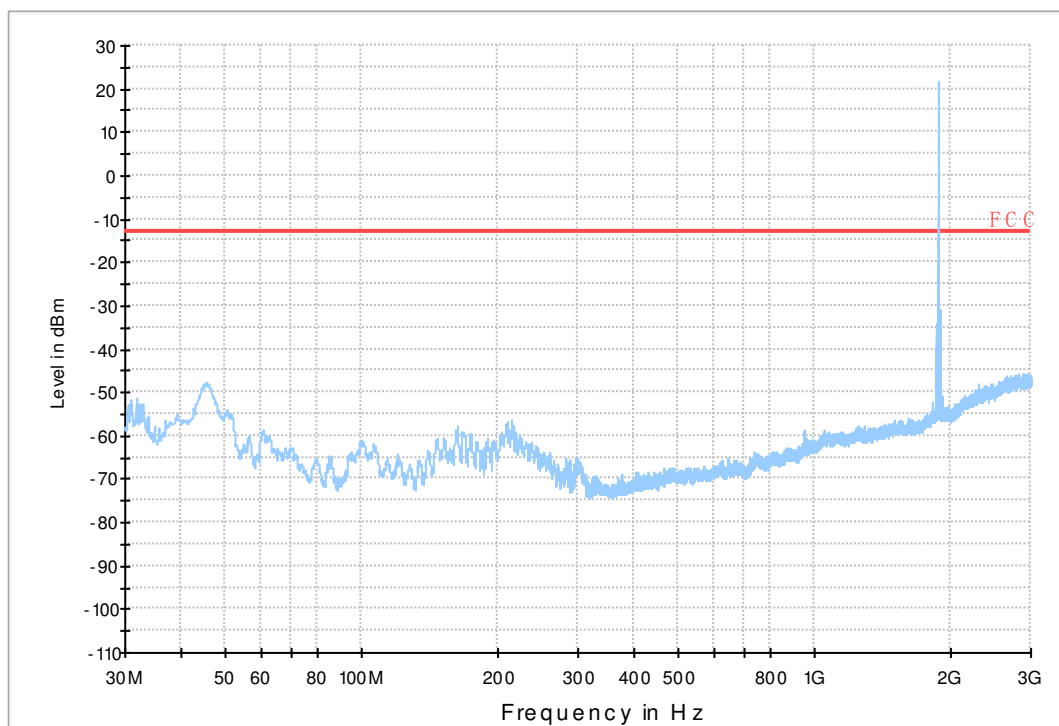


7.1.2 Test Band = GSM1900

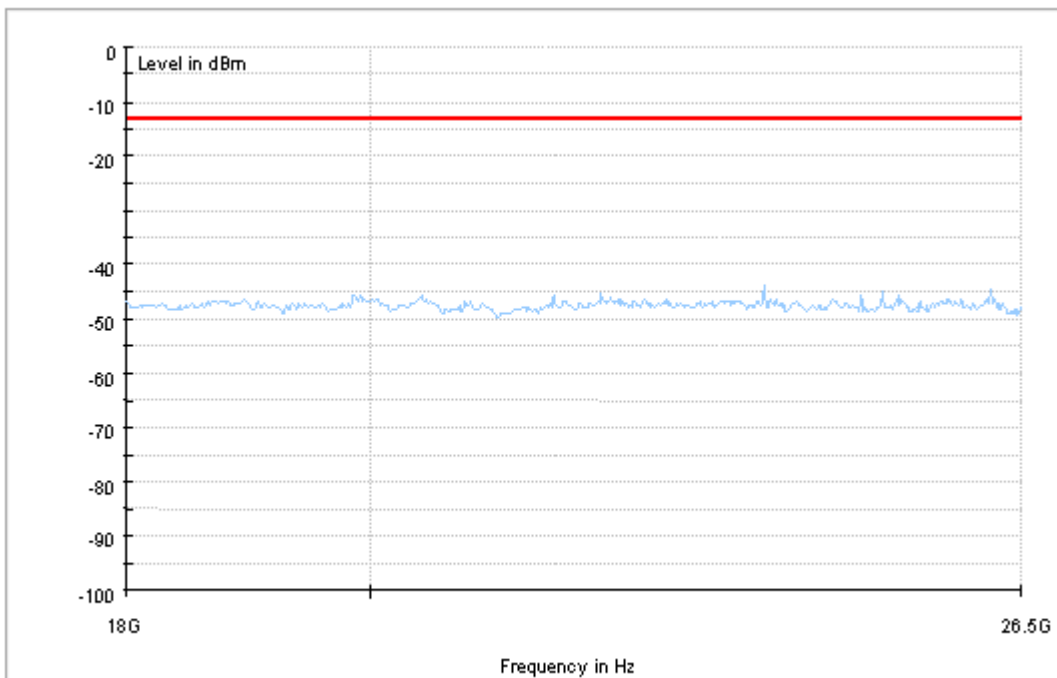
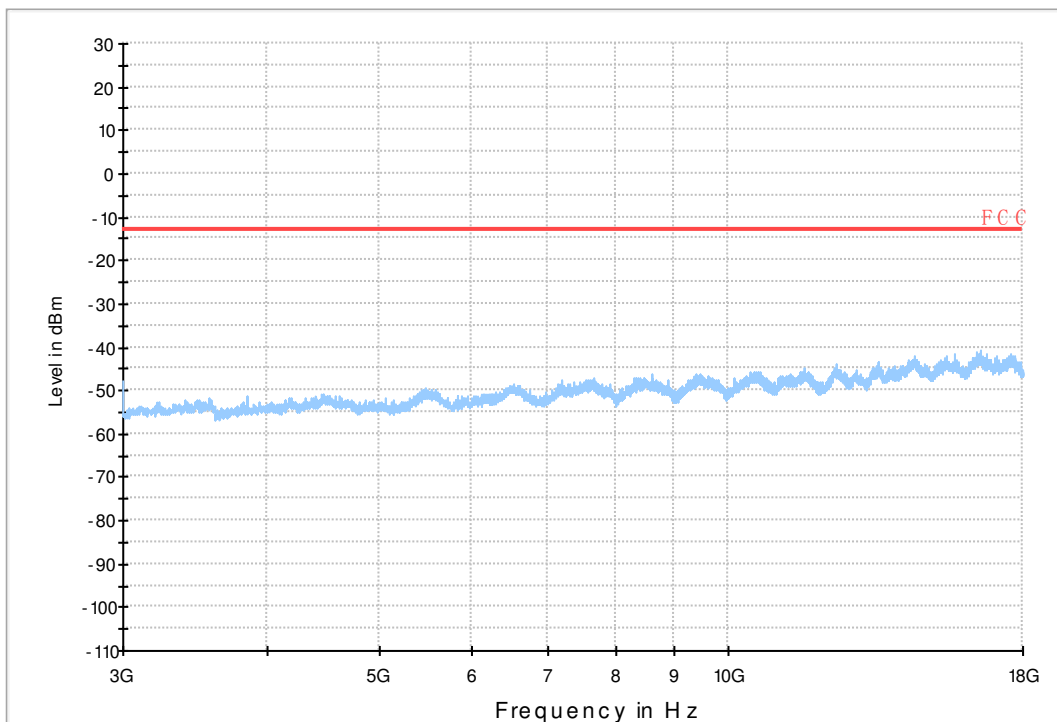
7.1.2.1 Test Mode = GSM/TM1



Copy of FCC PART24 GSM1900_L



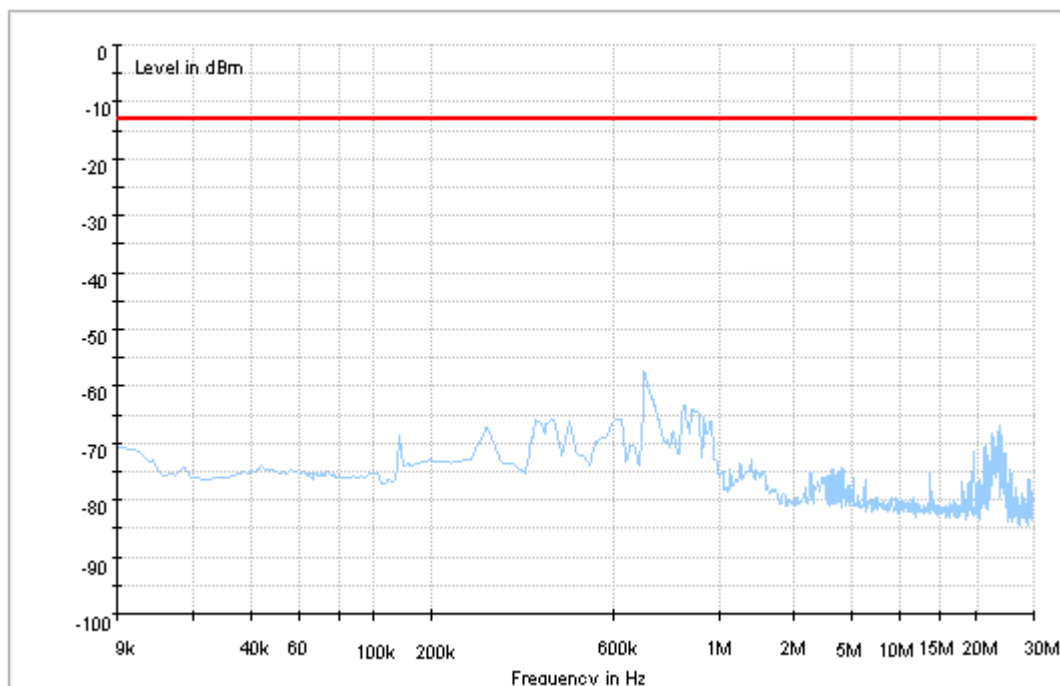
Copy of FCC PART24 GSM1900_H



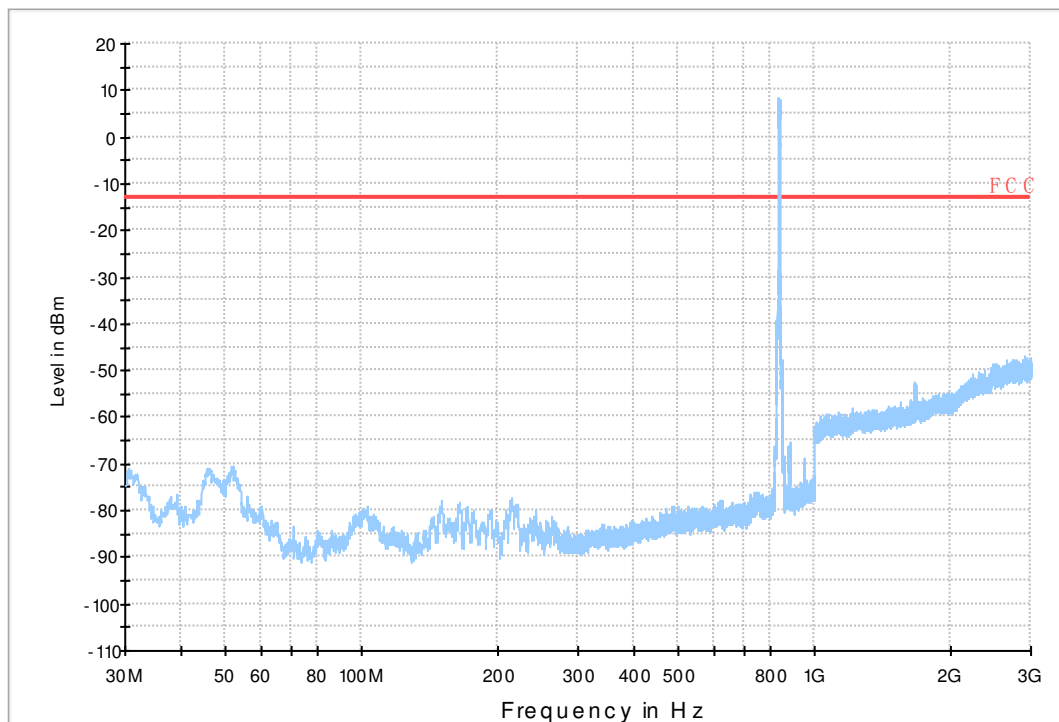
7.2 For UMTS

7.2.1 Test Band = WCDMA850

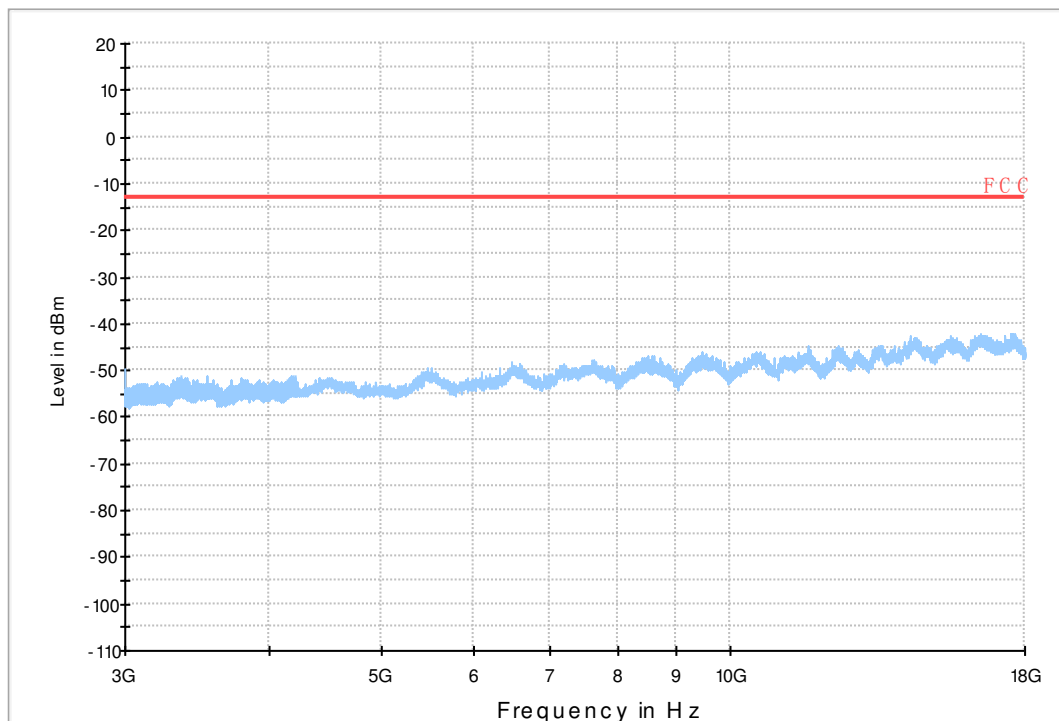
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 W CDMA850_L

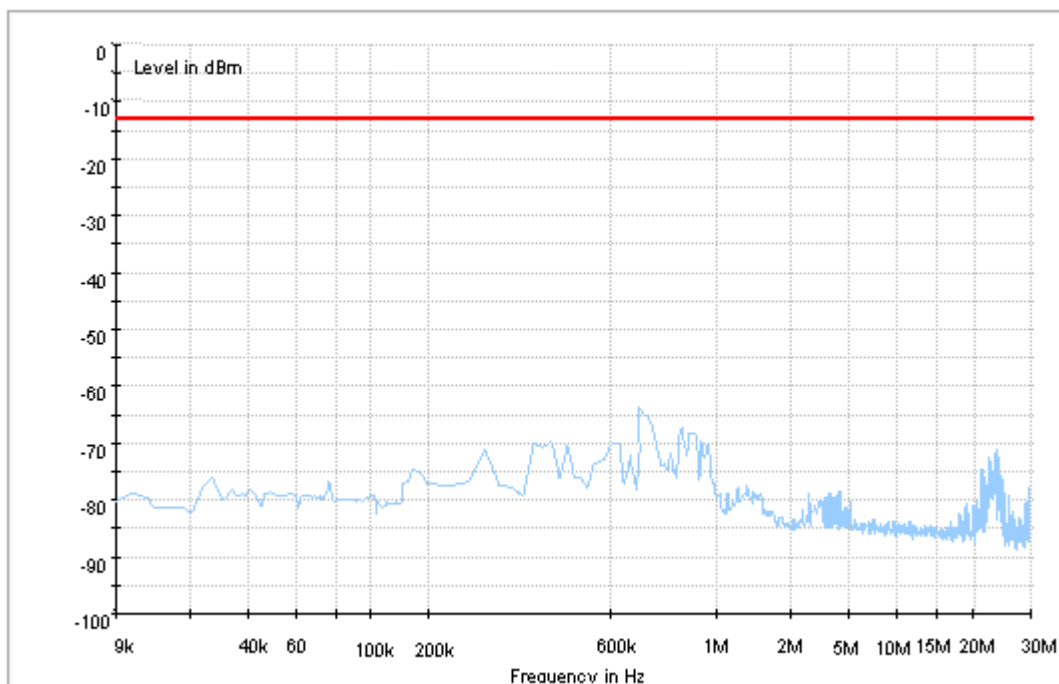


Copy of FCC PART22 W CDMA850_H

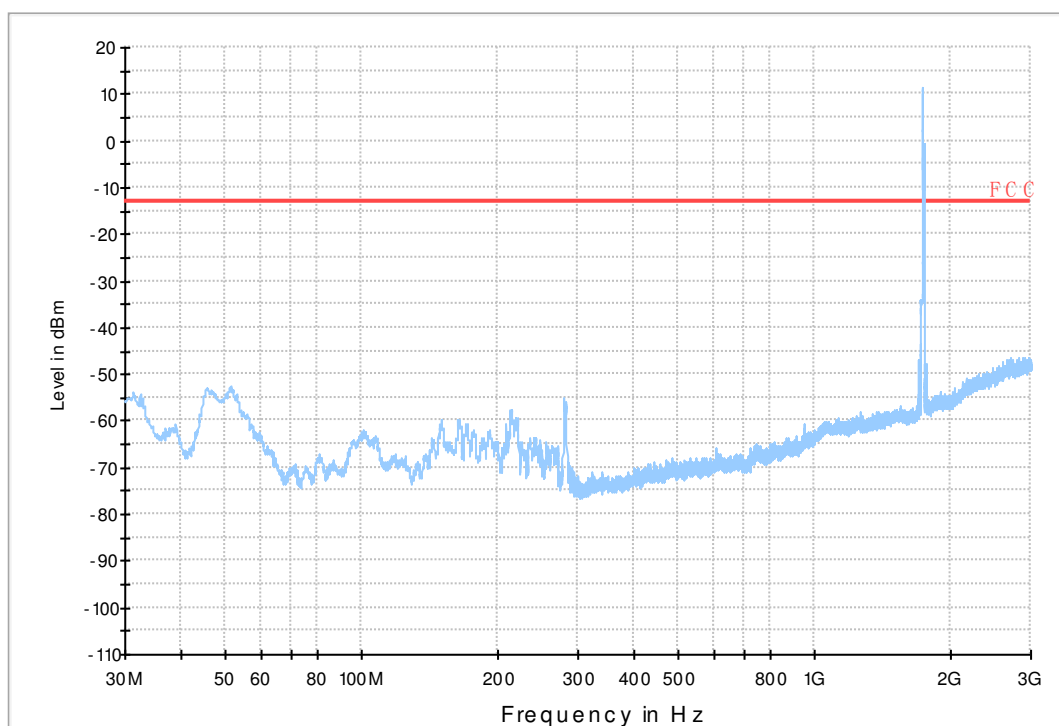


7.2.2 Test Band = WCDMA1700

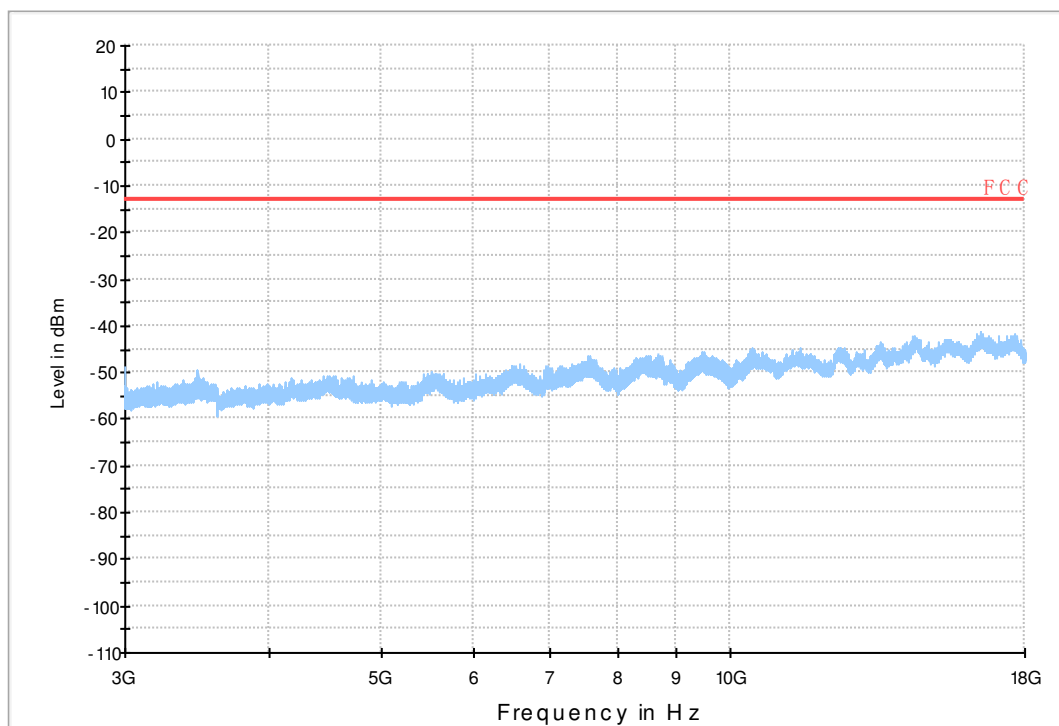
7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART27 W CDMA1700_L

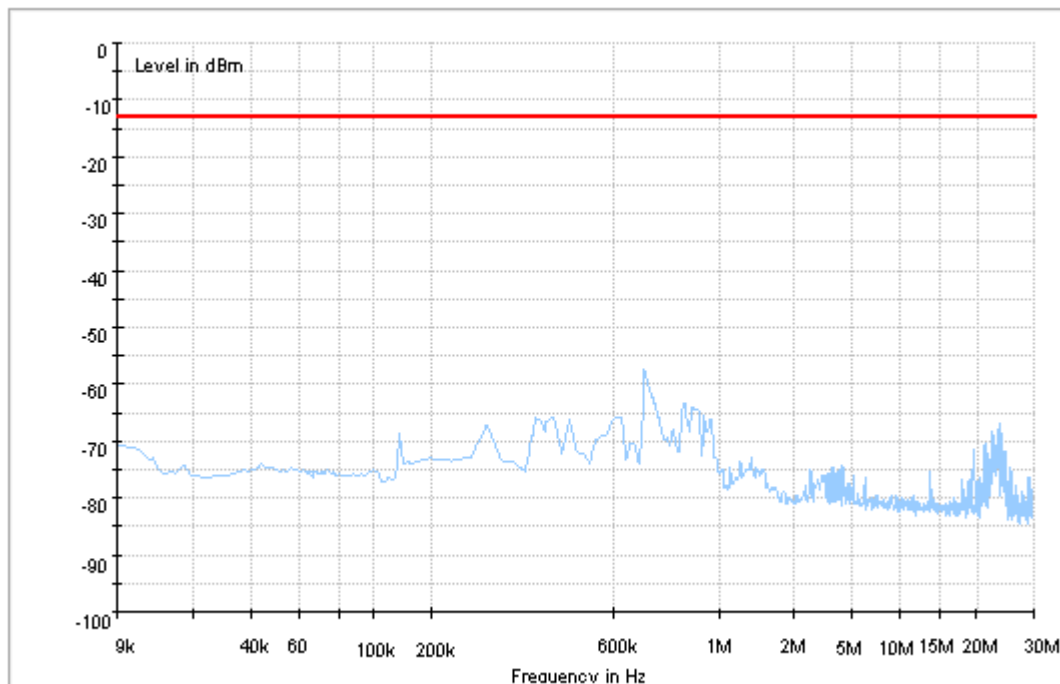


Copy of FCC PART27 W CDMA1700_H

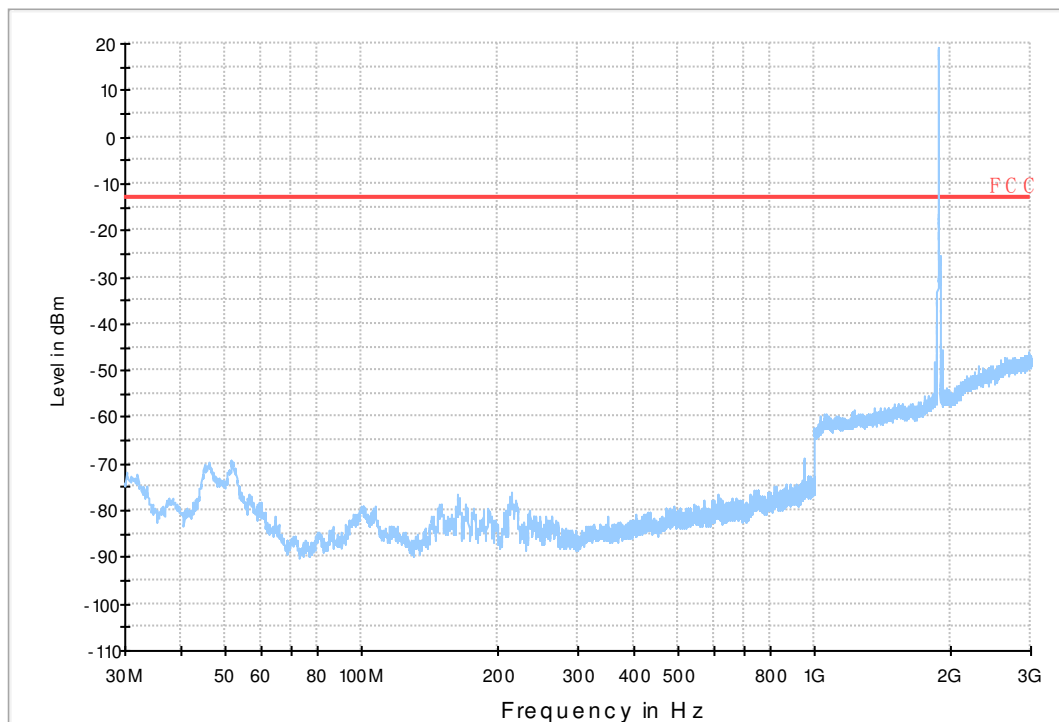


7.2.3 Test Band = WCDMA1900

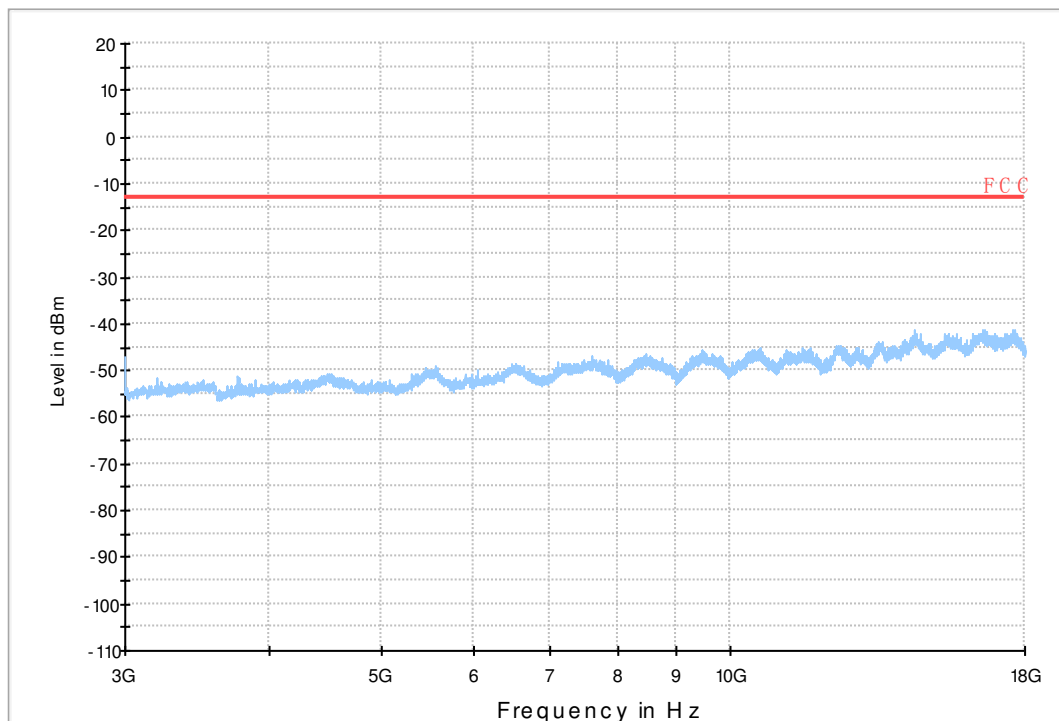
7.2.3.1 Test Mode = UMTS/TM1

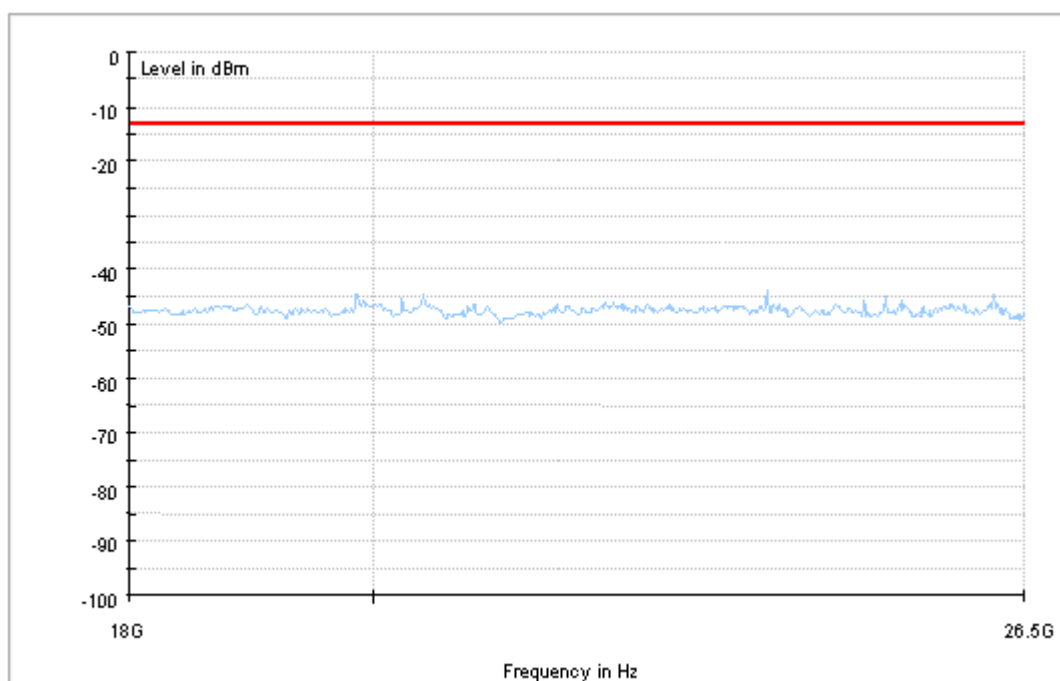


Copy of FCC PART24 W CDMA1900_L



Copy of FCC PART24 W CDMA1900_H





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]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-13.69	-0.01661	PASS
				VN	-12.85	-0.01559	PASS
				VH	-14.72	-0.01786	PASS
		MCH	TN	VL	-14.59	-0.01744	PASS
				VN	-15.3	-0.01829	PASS
				VH	-11.11	-0.01328	PASS
		HCH	TN	VL	-14.14	-0.01666	PASS
				VN	-14.98	-0.01765	PASS
				VH	-12.66	-0.01492	PASS
	GSM/TM2	LCH	TN	VL	-27.48	-0.03334	PASS
				VN	-26.25	-0.03185	PASS
				VH	-27.57	-0.03345	PASS
		MCH	TN	VL	-17.76	-0.02123	PASS
				VN	-19.44	-0.02324	PASS
				VH	-22.18	-0.02651	PASS
		HCH	TN	VL	-21.11	-0.02487	PASS
				VN	-15.79	-0.0186	PASS
				VH	-22.12	-0.02606	PASS
GSM1900	GSM/TM1	LCH	TN	VL	51.79	0.02799	PASS
				VN	18.21	0.00984	PASS
				VH	7.36	0.00398	PASS
		MCH	TN	VL	7.17	0.00381	PASS
				VN	26.8	0.01426	PASS
				VH	14.21	0.00756	PASS
		HCH	TN	VL	1.74	0.00091	PASS
				VN	7.68	0.00402	PASS
				VH	18.79	0.00984	PASS
	GSM/TM2	LCH	TN	VL	10.14	0.00548	PASS
				VN	9.59	0.00518	PASS
				VH	6.72	0.00363	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	9.3	0.00495	PASS
				VN	16.63	0.00885	PASS
				VH	13.27	0.00706	PASS
		HCH	TN	VL	12.82	0.00671	PASS
				VN	2.16	0.00113	PASS
				VH	8.62	0.00451	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-9.43	-0.01144	PASS
				-20	-12.33	-0.01496	PASS
				-10	-11.75	-0.01426	PASS
				0	-12.33	-0.01496	PASS
				10	-10.07	-0.01222	PASS
				20	-11.75	-0.01426	PASS
				30	-11.3	-0.01371	PASS
				40	-18.79	-0.0228	PASS
				50	-10.91	-0.01324	PASS
		MCH	VN	-30	-14.14	-0.0169	PASS
				-20	-15.56	-0.0186	PASS
				-10	-11.17	-0.01335	PASS
				0	-14.79	-0.01768	PASS
				10	-14.59	-0.01744	PASS
				20	-8.01	-0.00957	PASS
				30	-16.53	-0.01976	PASS
				40	-12.98	-0.01552	PASS
				50	-12.85	-0.01536	PASS
		HCH	VN	-30	-8.01	-0.00944	PASS
				-20	-16.08	-0.01894	PASS
				-10	-14.14	-0.01666	PASS
				0	-19.89	-0.02343	PASS
				10	-12.4	-0.01461	PASS
				20	-10.98	-0.01294	PASS
				30	-20.47	-0.02412	PASS
				40	-9.3	-0.01096	PASS
				50	-16.85	-0.01985	PASS
	GSM/TM2	LCH	VN	-30	-17.85	-0.02166	PASS
				-20	-14.56	-0.01767	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-10	-21.24	-0.02577	PASS
				0	-23.15	-0.02809	PASS
				10	-16.53	-0.02006	PASS
				20	-16.18	-0.01963	PASS
				30	-24.54	-0.02977	PASS
				40	-16.21	-0.01967	PASS
				50	-16.53	-0.02006	PASS
		MCH	VN	-30	-13.01	-0.01555	PASS
				-20	-25.7	-0.03072	PASS
				-10	-21.7	-0.02594	PASS
				0	-12.53	-0.01498	PASS
				10	-21.5	-0.0257	PASS
				20	-20.11	-0.02404	PASS
				30	-13.14	-0.01571	PASS
				40	-19.89	-0.02377	PASS
				50	-22.83	-0.02729	PASS
		HCH	VN	-30	-14.56	-0.01715	PASS
				-20	-24.54	-0.02891	PASS
				-10	-16.21	-0.0191	PASS
				0	-29.41	-0.03465	PASS
				10	-21.41	-0.02522	PASS
				20	-21.86	-0.02575	PASS
				30	-29.74	-0.03504	PASS
				40	-17.63	-0.02077	PASS
				50	-20.28	-0.02389	PASS
GSM1900	GSM/TM1	LCH	VN	-30	6.33	0.00342	PASS
				-20	17.76	0.0096	PASS
				-10	21.37	0.01155	PASS
				0	6.39	0.00345	PASS
				10	9.3	0.00503	PASS
				20	21.18	0.01145	PASS
				30	12.79	0.00691	PASS
				40	4.07	0.0022	PASS
				50	4.2	0.00227	PASS
		MCH	VN	-30	7.23	0.00385	PASS
				-20	20.15	0.01072	PASS
				-10	18.66	0.00993	PASS
				0	20.34	0.01082	PASS
				10	14.53	0.00773	PASS
				20	8.01	0.00426	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				30	-1.16	-0.00062	PASS
				40	19.57	0.01041	PASS
				50	16.79	0.00893	PASS
		HCH	VN	-30	16.92	0.00886	PASS
				-20	32.61	0.01708	PASS
				-10	9.3	0.00487	PASS
				0	-1.87	-0.00098	PASS
				10	16.47	0.00862	PASS
				20	8.98	0.0047	PASS
				30	17.63	0.00923	PASS
				40	16.08	0.00842	PASS
				50	-10.53	-0.00551	PASS
	GSM/TM2	LCH	VN	-30	13.04	0.00705	PASS
				-20	7.49	0.00405	PASS
				-10	4.39	0.00237	PASS
				0	12.11	0.00655	PASS
				10	6.62	0.00358	PASS
				20	-0.26	-0.00014	PASS
				30	11.27	0.00609	PASS
				40	-1	-0.00054	PASS
				50	20.47	0.01106	PASS
		MCH	VN	-30	3.68	0.00196	PASS
				-20	10.88	0.00579	PASS
				-10	1.84	0.00098	PASS
				0	30.48	0.01621	PASS
				10	8.36	0.00445	PASS
				20	-0.29	-0.00015	PASS
				30	29.09	0.01547	PASS
				40	19.6	0.01043	PASS
				50	5.55	0.00295	PASS
		HCH	VN	-30	0.42	0.00022	PASS
				-20	6.17	0.00323	PASS
				-10	8.56	0.00448	PASS
				0	11.3	0.00592	PASS
				10	4.71	0.00247	PASS
				20	22.24	0.01165	PASS
				30	6.52	0.00341	PASS
				40	7.49	0.00392	PASS
				50	4.2	0.0022	PASS

8.2 For UMTS

8.2.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	2.64	0.00319	PASS
				VN	2.24	0.00271	PASS
				VH	6.82	0.00825	PASS
		MCH	TN	VL	1.97	0.00236	PASS
				VN	1.82	0.00218	PASS
				VH	3.6	0.0043	PASS
		HCH	TN	VL	5.2	0.00614	PASS
				VN	-2.08	-0.00246	PASS
				VH	1.36	0.00161	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	2.38	0.00139	PASS
				VN	-0.06	-0.00004	PASS
				VH	4.27	0.00249	PASS
		MCH	TN	VL	1.83	0.00106	PASS
				VN	3.19	0.00184	PASS
				VH	0.7	0.0004	PASS
		HCH	TN	VL	-3.66	-0.00209	PASS
				VN	0.66	0.00038	PASS
				VH	0.73	0.00042	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	4.67	0.00252	PASS
				VN	3.43	0.00185	PASS
				VH	-6.45	-0.00348	PASS
		MCH	TN	VL	-1.85	-0.00098	PASS
				VN	4.53	0.00241	PASS
				VH	-3.28	-0.00174	PASS
		HCH	TN	VL	4.04	0.00212	PASS
				VN	0.37	0.00019	PASS
				VH	-1.89	-0.00099	PASS

8.2.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	2.37	0.00287	PASS
				-20	-4.04	-0.00489	PASS
				-10	-3.45	-0.00417	PASS
				0	-4.55	-0.00551	PASS
				10	-3.4	-0.00411	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				20	2.79	0.00338	PASS
				30	-5.95	-0.0072	PASS
				40	3.39	0.0041	PASS
				50	2.58	0.00312	PASS
		MCH	VN	-30	5.91	0.00707	PASS
				-20	0.89	0.00106	PASS
				-10	2.53	0.00302	PASS
				0	-0.75	-0.0009	PASS
				10	0.43	0.00051	PASS
				20	-3.27	-0.00391	PASS
				30	-4.32	-0.00516	PASS
				40	-3.2	-0.00383	PASS
				50	3.2	0.00383	PASS
		HCH	VN	-30	0.82	0.00097	PASS
				-20	-1.51	-0.00178	PASS
				-10	1.24	0.00146	PASS
				0	4.7	0.00555	PASS
				10	1.66	0.00196	PASS
				20	-1.68	-0.00198	PASS
				30	4.39	0.00519	PASS
				40	2.79	0.0033	PASS
				50	-2.76	-0.00326	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	0.05	0.00003	PASS
				-20	3.01	0.00176	PASS
				-10	3.94	0.0023	PASS
				0	-2.08	-0.00121	PASS
				10	-2.7	-0.00158	PASS
				20	-1.02	-0.0006	PASS
				30	-2.53	-0.00148	PASS
				40	-1.59	-0.00093	PASS
				50	4.09	0.00239	PASS
		MCH	VN	-30	-0.73	-0.00042	PASS
				-20	-1.11	-0.00064	PASS
				-10	0.41	0.00024	PASS
				0	3.19	0.00184	PASS
				10	2.75	0.00159	PASS
				20	2.55	0.00147	PASS
				30	2.27	0.00131	PASS
				40	-5.63	-0.00325	PASS
				50	2.04	0.00118	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	-30	3.77	0.00215	PASS
				-20	-2.27	-0.0013	PASS
				-10	0.26	0.00015	PASS
				0	4.39	0.0025	PASS
				10	-0.9	-0.00051	PASS
				20	0.03	0.00002	PASS
				30	-3.71	-0.00212	PASS
				40	3.71	0.00212	PASS
				50	2.91	0.00166	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	3.42	0.00185	PASS
				-20	4.47	0.00241	PASS
				-10	1.74	0.00094	PASS
				0	1.4	0.00076	PASS
				10	-0.99	-0.00053	PASS
				20	-0.72	-0.00039	PASS
				30	6.26	0.00338	PASS
				40	-0.96	-0.00052	PASS
				50	4.3	0.00232	PASS
		MCH	VN	-30	2.93	0.00156	PASS
				-20	8.3	0.00441	PASS
				-10	-2.79	-0.00148	PASS
				0	-2.17	-0.00115	PASS
				10	2.27	0.00121	PASS
				20	-9.78	-0.0052	PASS
				30	4.46	0.00237	PASS
				40	5.94	0.00316	PASS
				50	-4.75	-0.00253	PASS
		HCH	VN	-30	-1.53	-0.0008	PASS
				-20	7.46	0.00391	PASS
				-10	3.14	0.00165	PASS
				0	-1.6	-0.00084	PASS
				10	5.83	0.00306	PASS
				20	-0.17	-0.00009	PASS
				30	-0.72	-0.00038	PASS
				40	-6.18	-0.00324	PASS
				50	3.07	0.00161	PASS

END