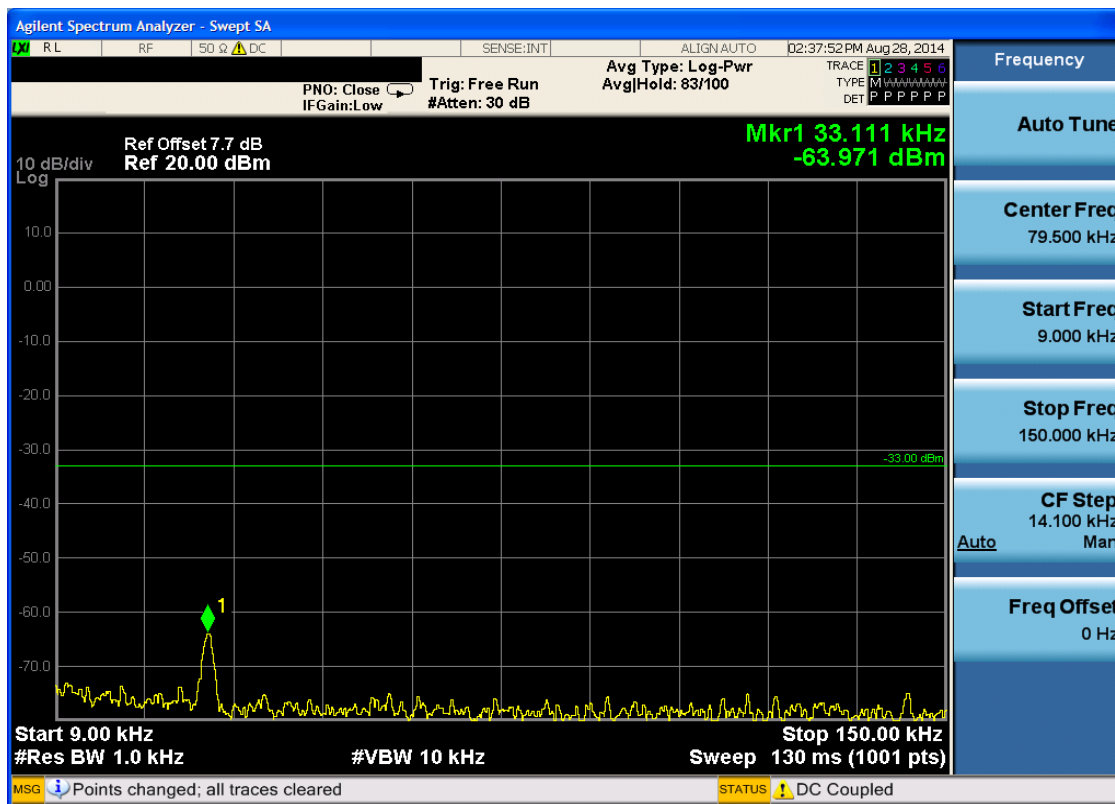
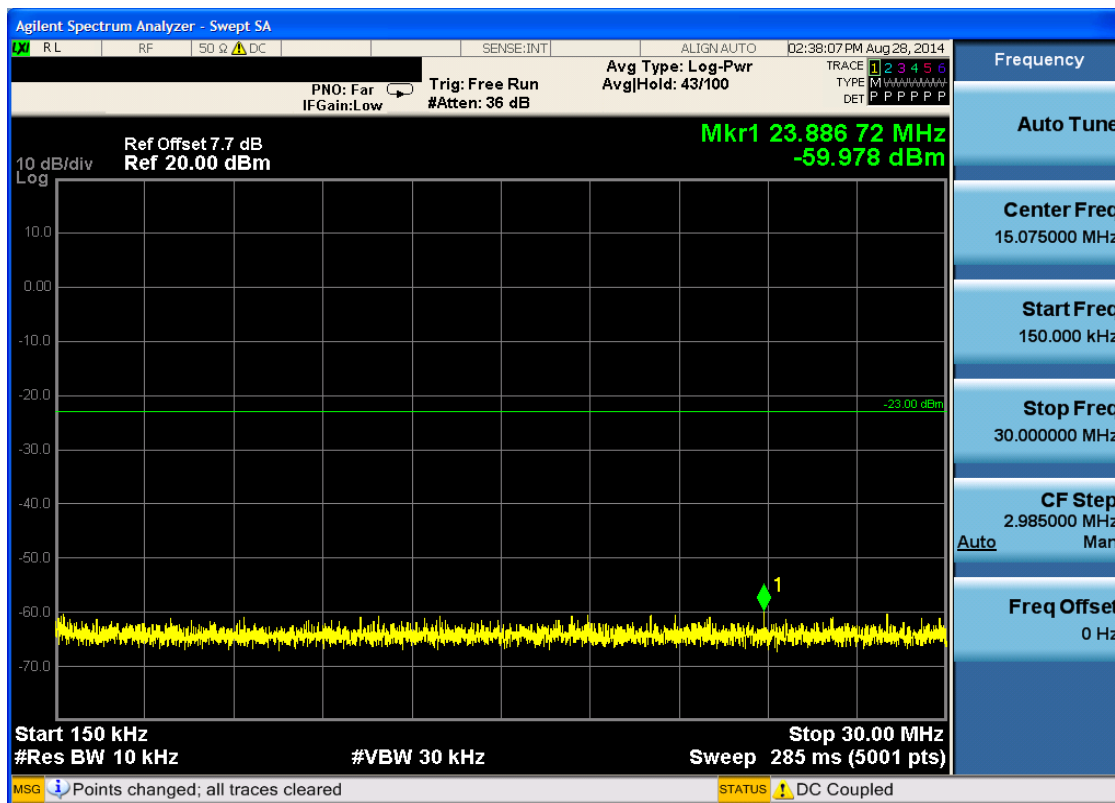
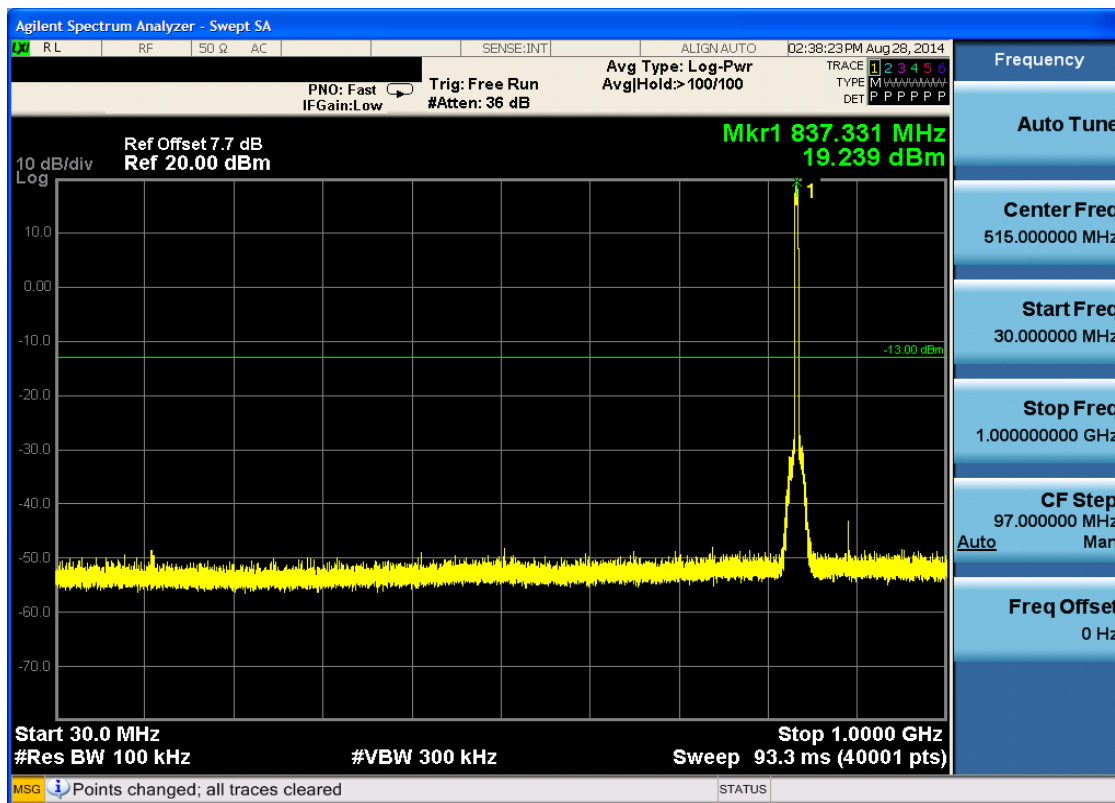
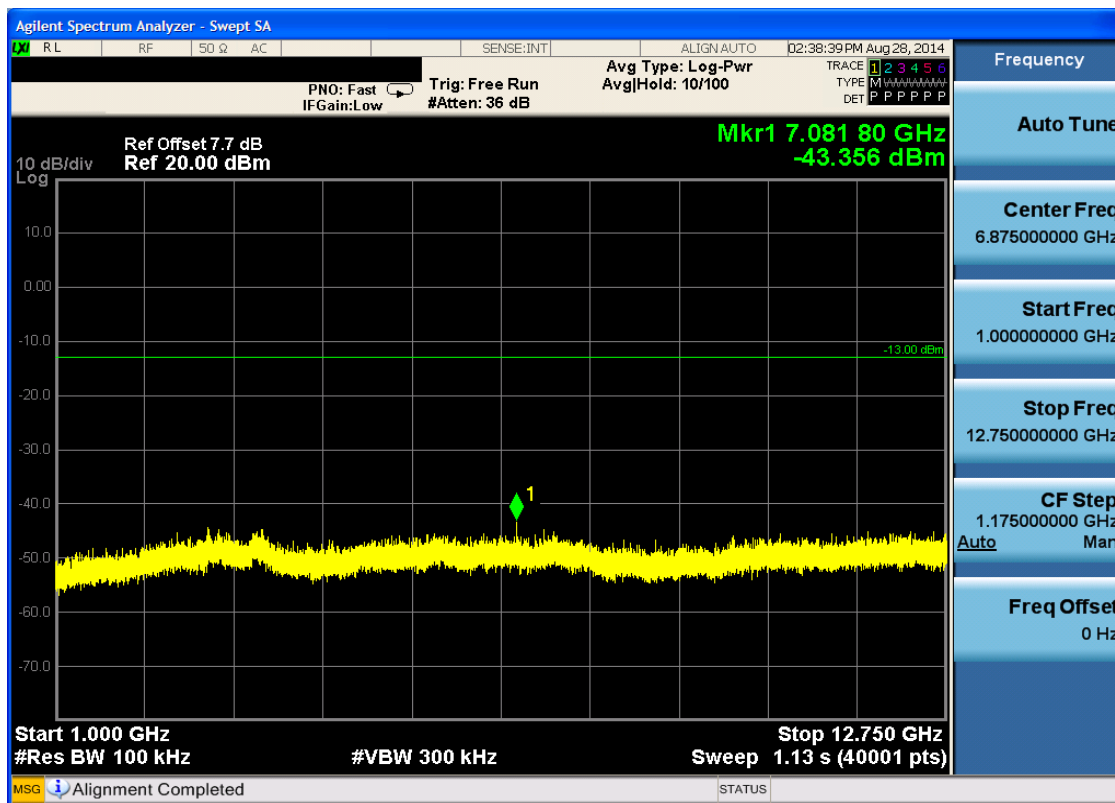


6.2.2.1.2 Test Channel = MCH











Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN AUTO 02:38:56 PM Aug 28, 2014

PN0: Close Trig: Free Run Avg Type: Log-Pwr
IFGain:Low #Atten: 30 dB AvgHld: 83/100

TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET P P P P P P

Ref Offset 7.7 dB
Ref 20.00 dBm

Mkr1 33.252 kHz
-63.975 dBm

10 dB/div
Log

Start 9.00 kHz Stop 150.00 kHz
#Res BW 1.0 kHz #VBW 10 kHz Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared STATUS DC Coupled

Frequency

Auto Tune

Center Freq 79.500 kHz

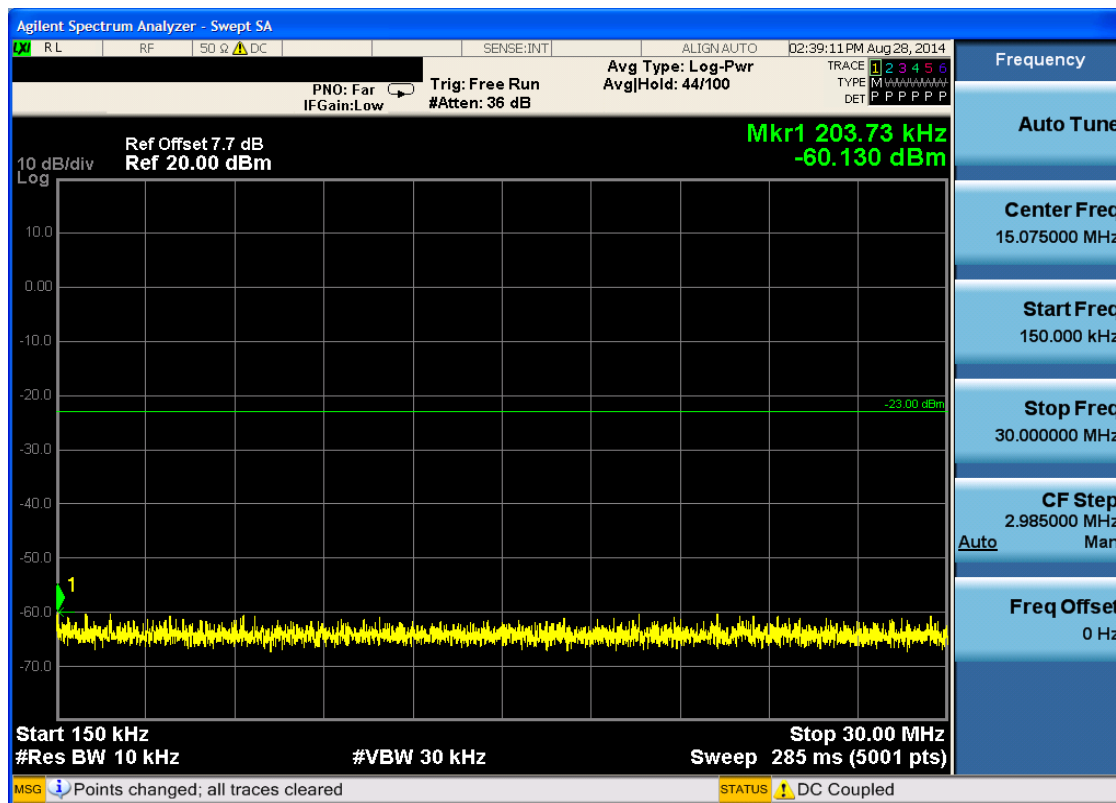
Start Freq 9.000 kHz

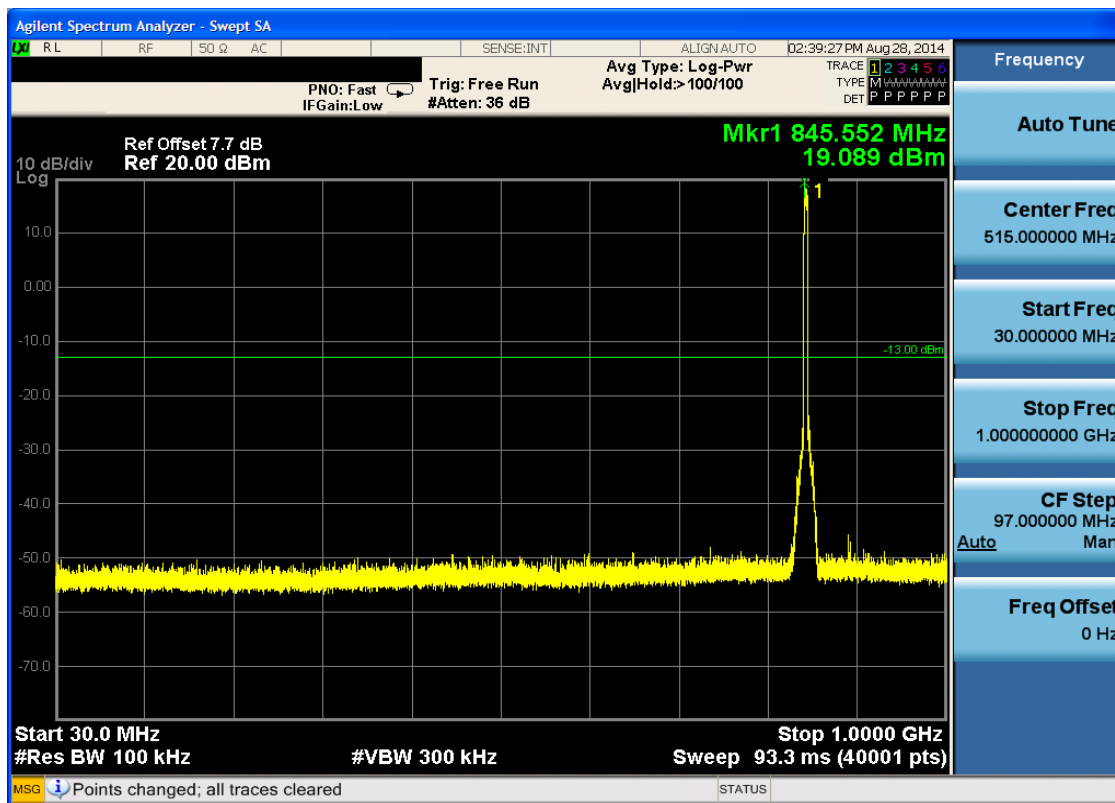
Stop Freq 150.000 kHz

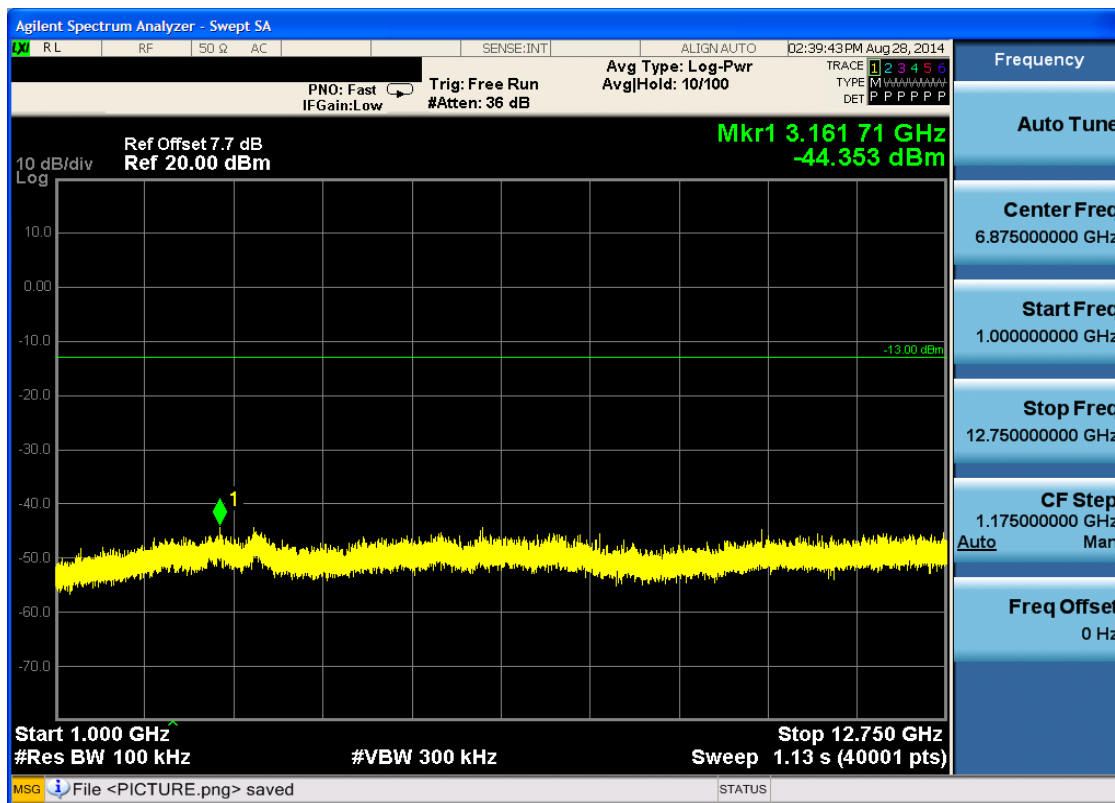
CF Step 14.100 kHz
Man

Auto

Freq Offset 0 Hz





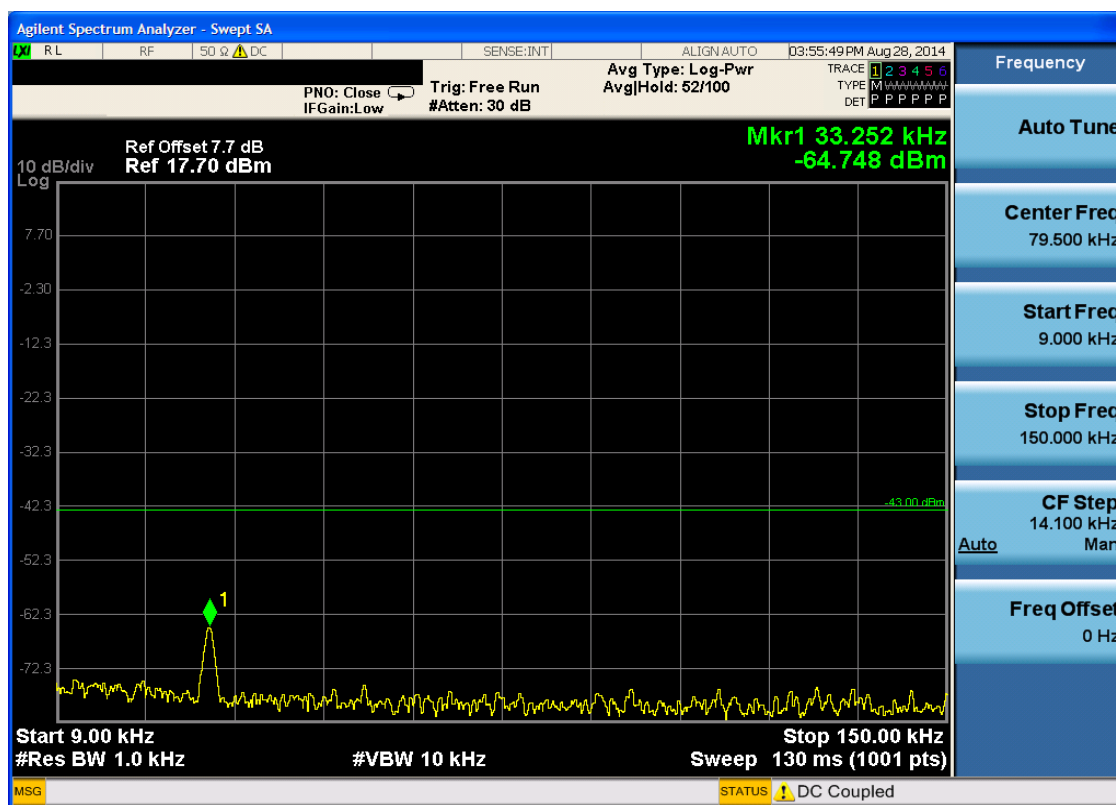


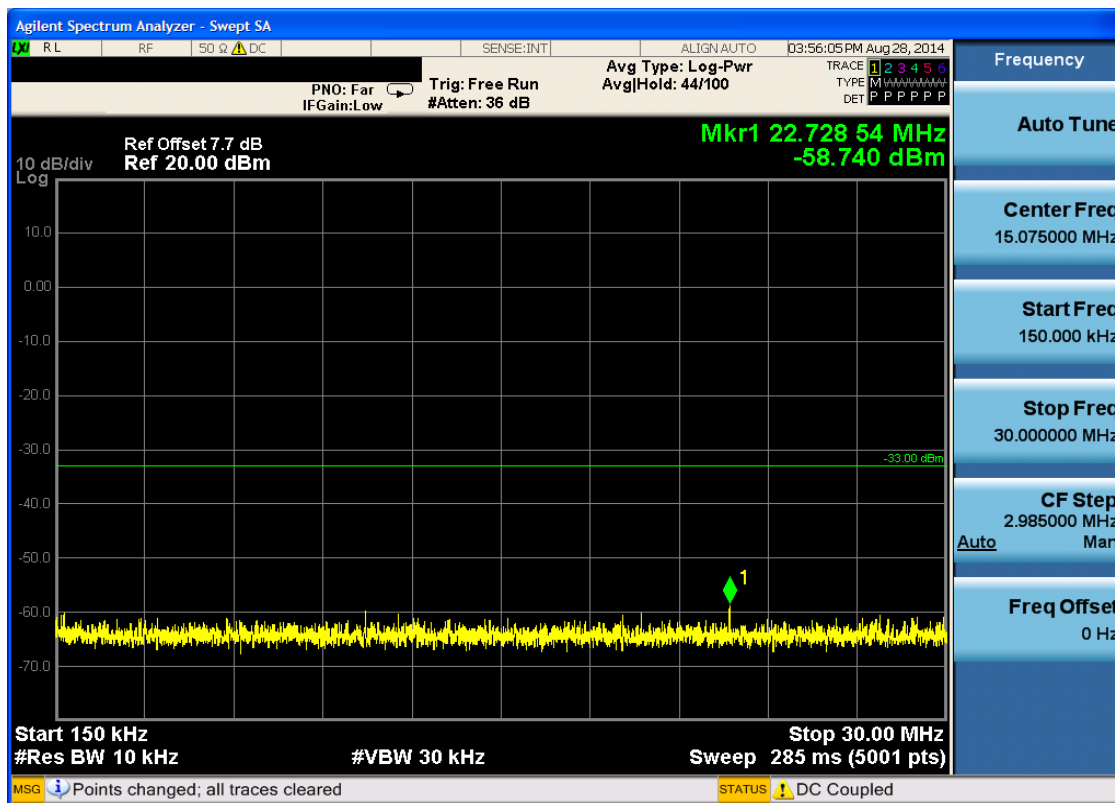


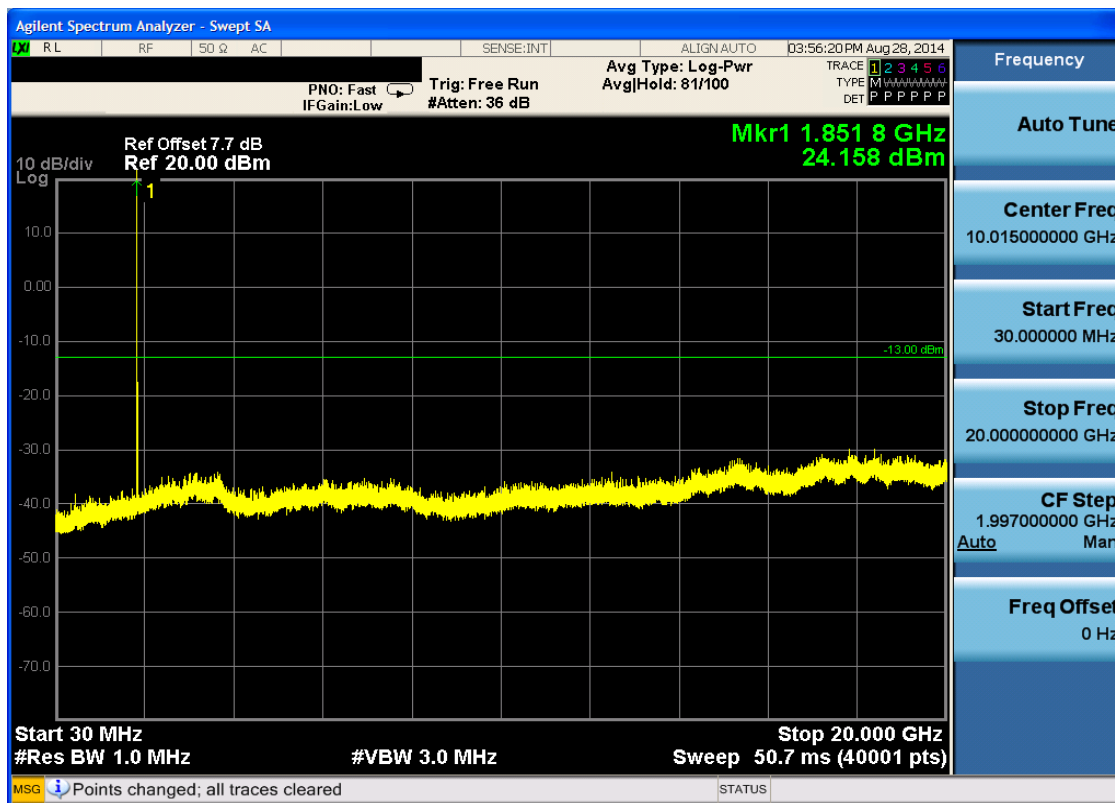
6.2.3 Test Band = WCDMA1900

6.2.3.1 Test Mode = UMTS/TM1

6.2.3.1.1 Test Channel = LCH

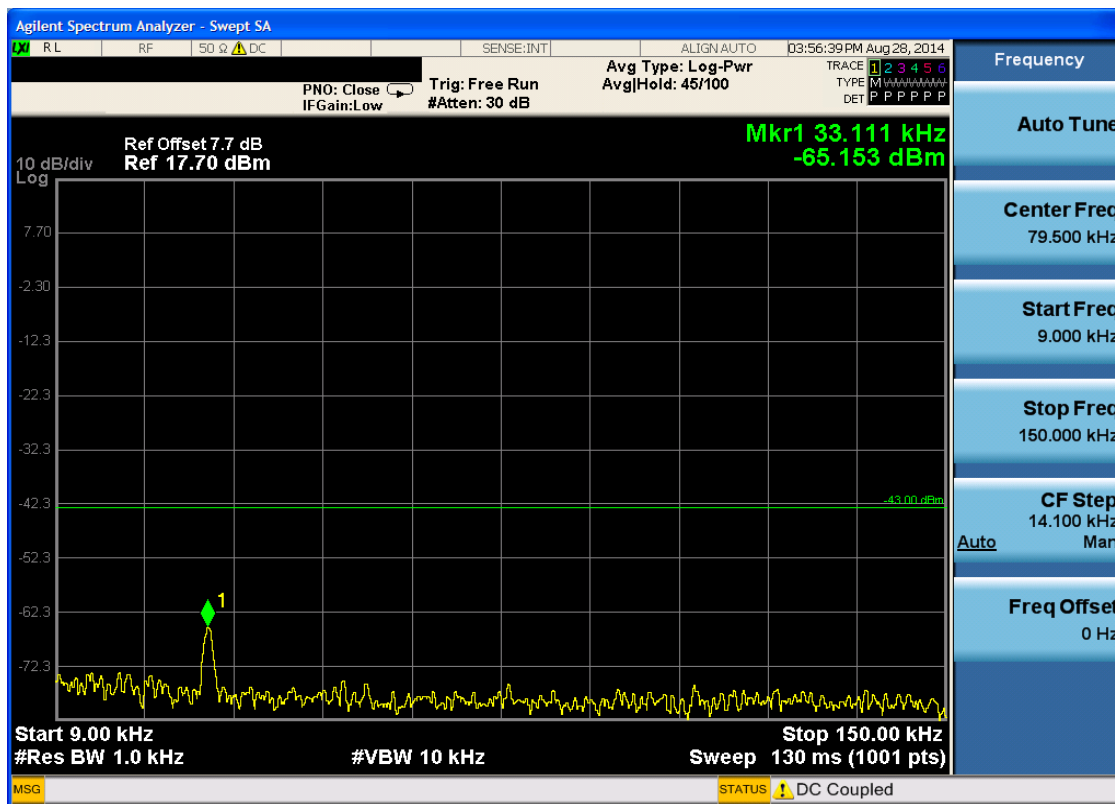


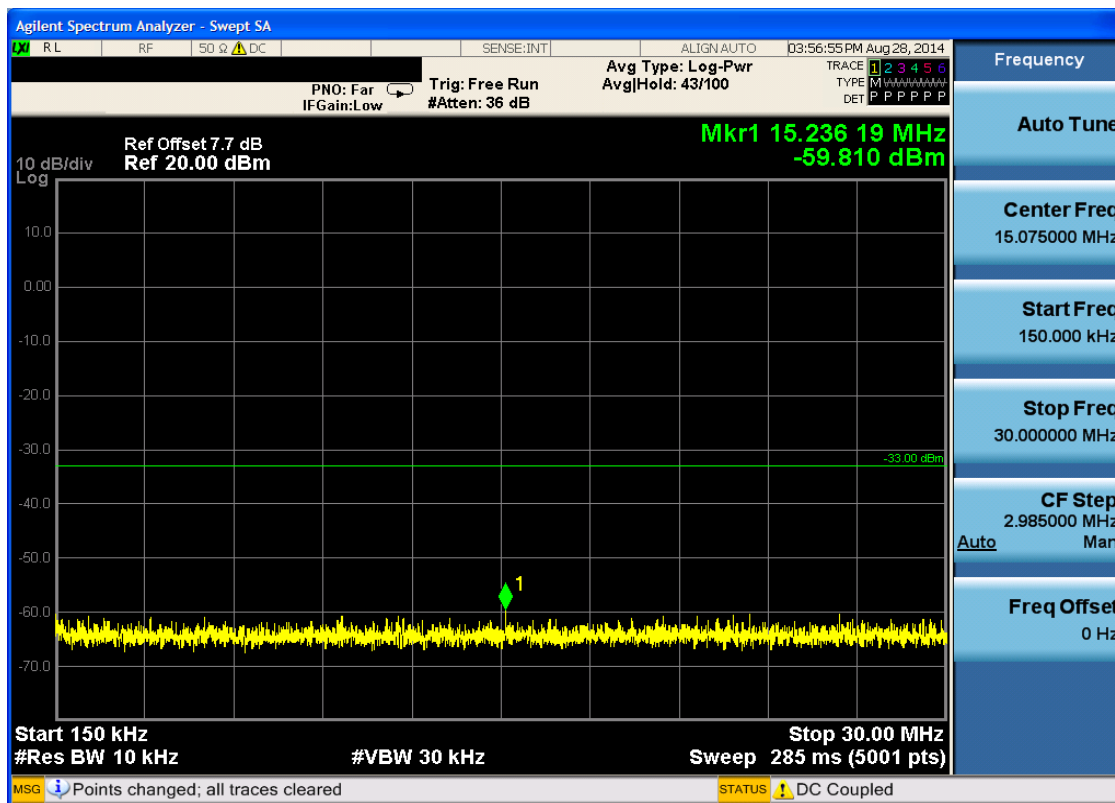


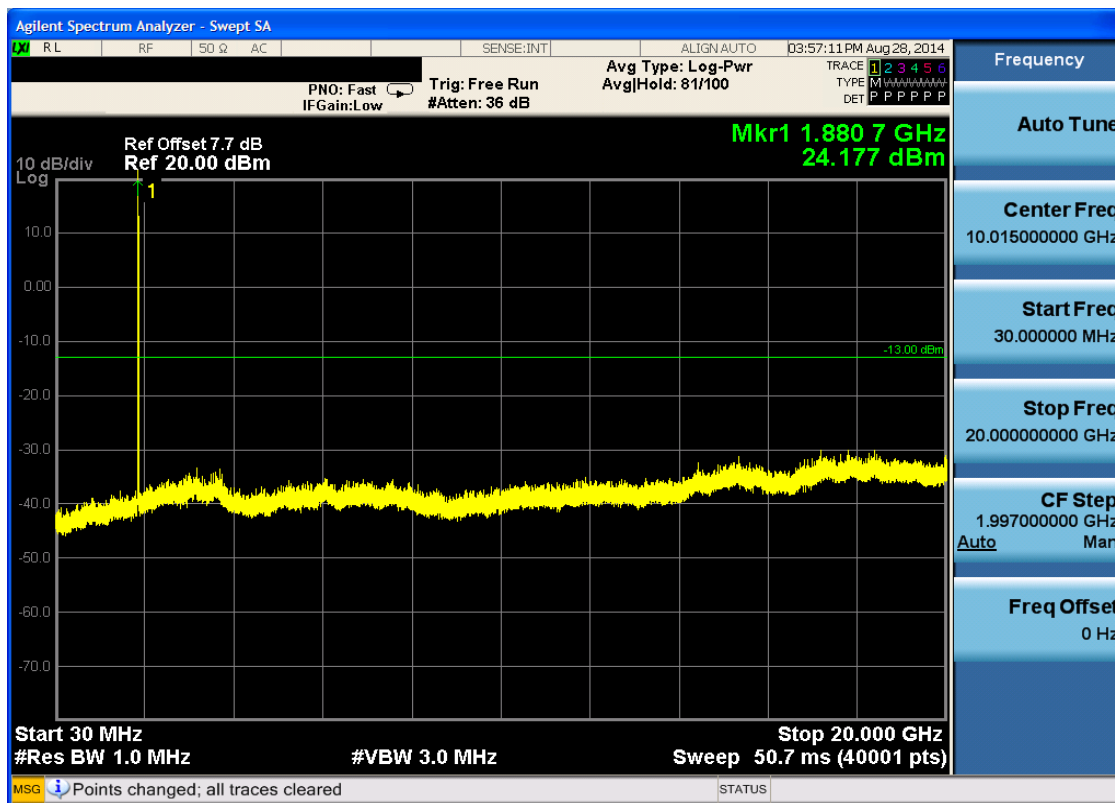




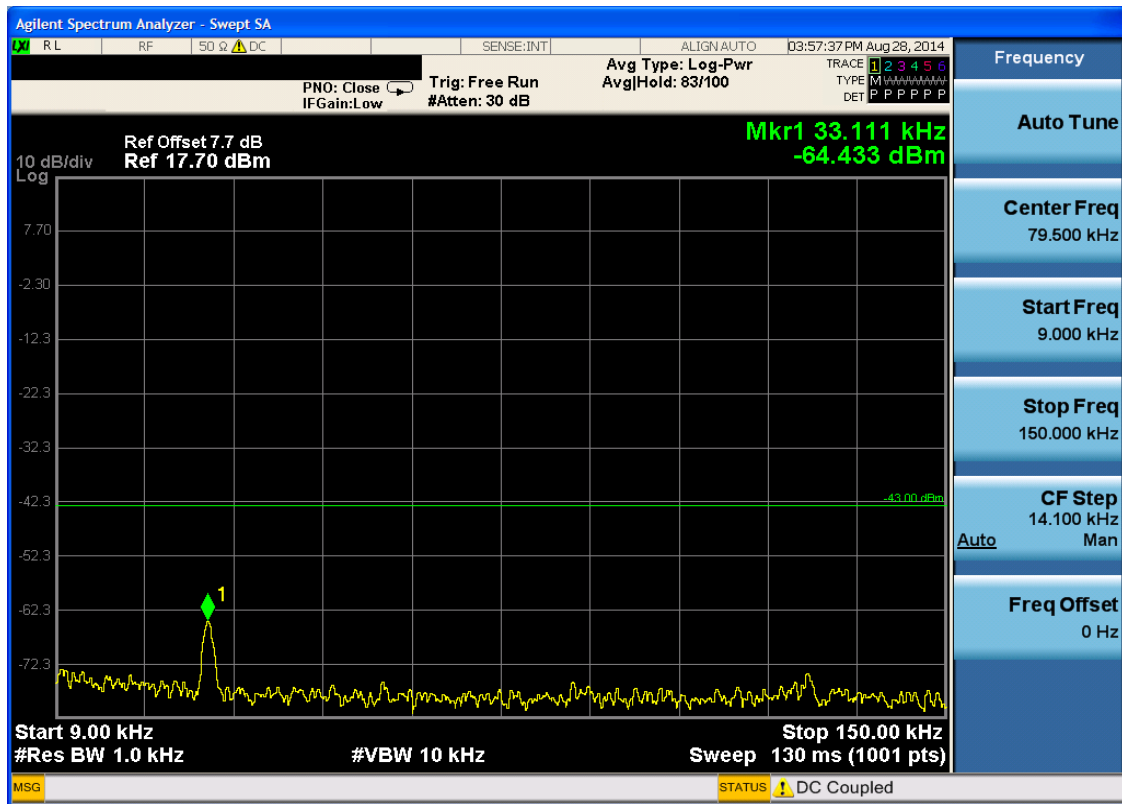
6.2.3.1.2 Test Channel = MCH

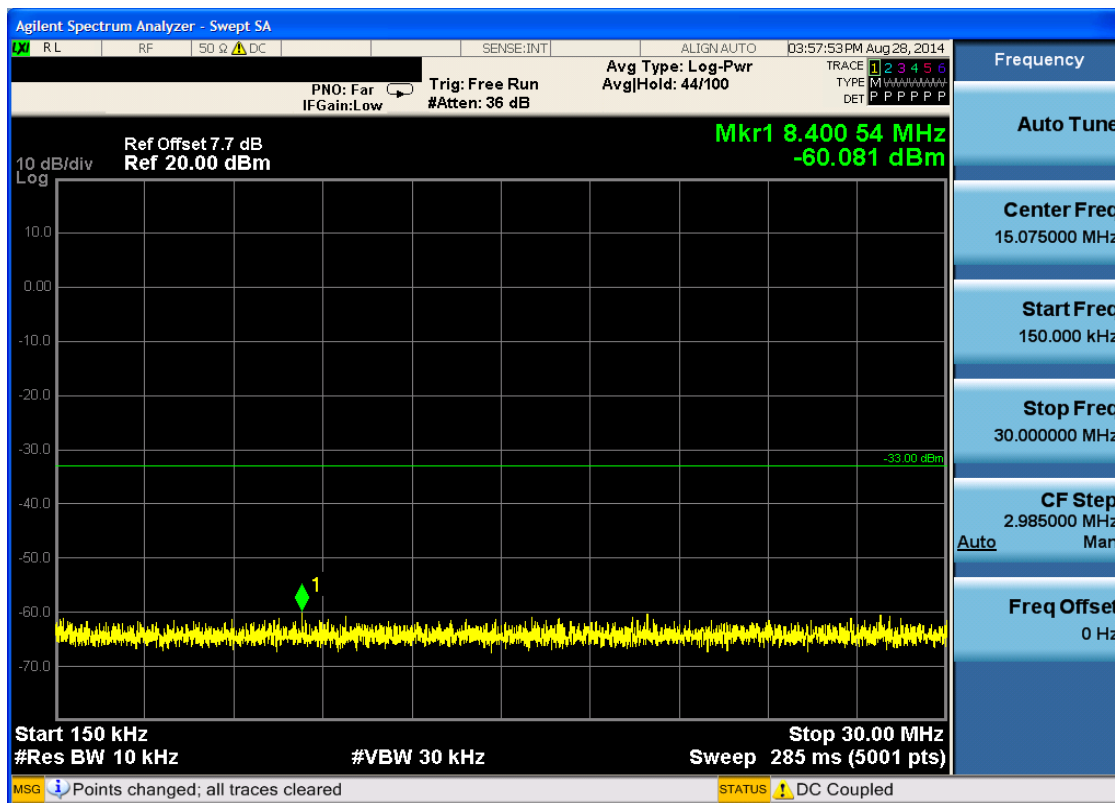


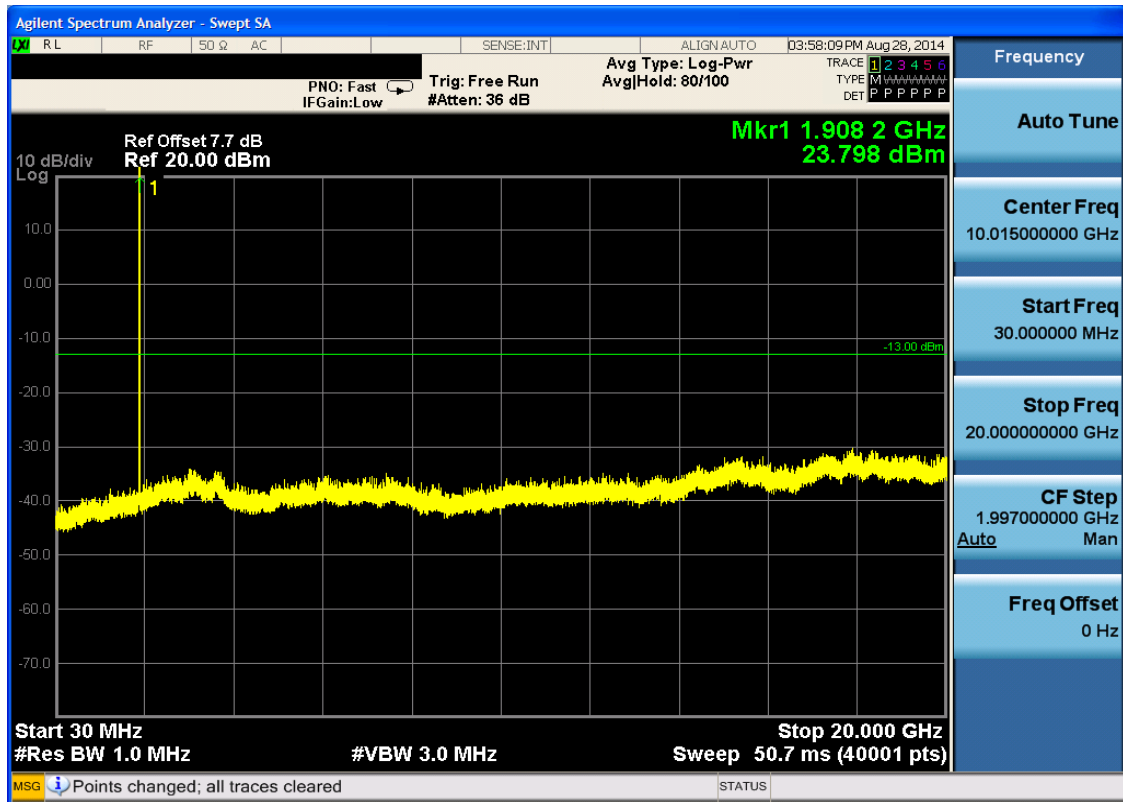




6.2.3.1.3 Test Channel = HCH





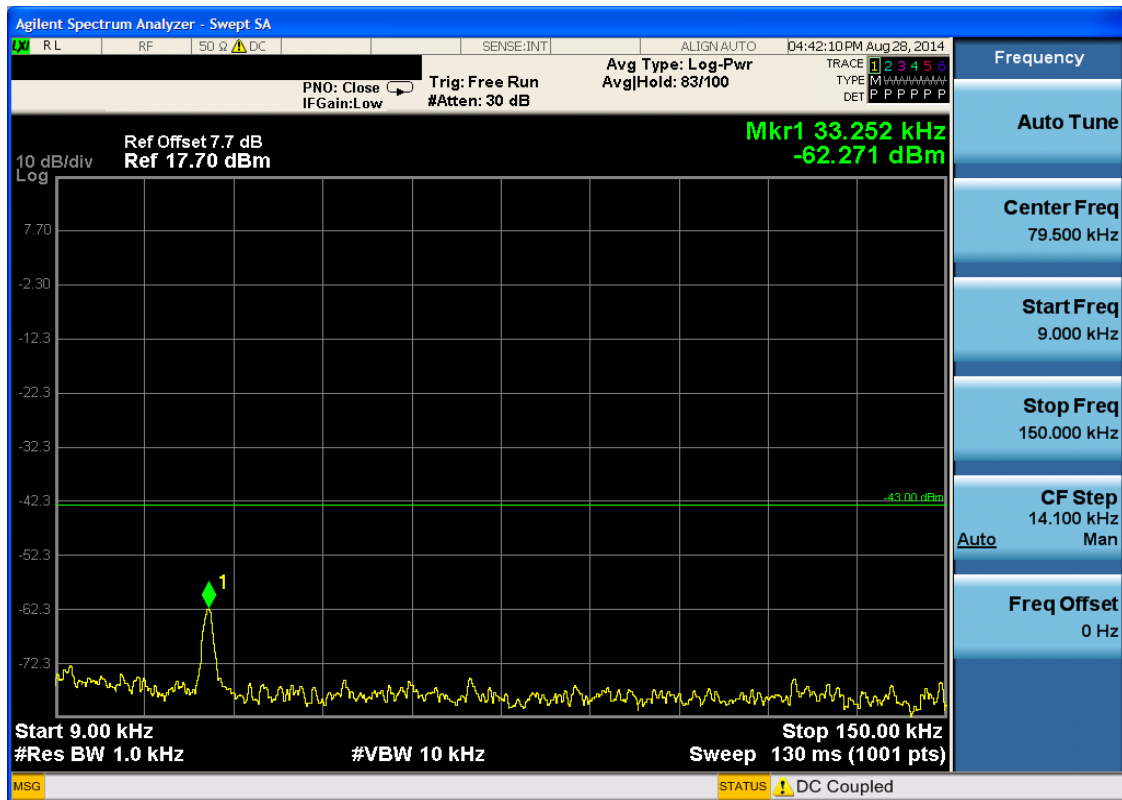


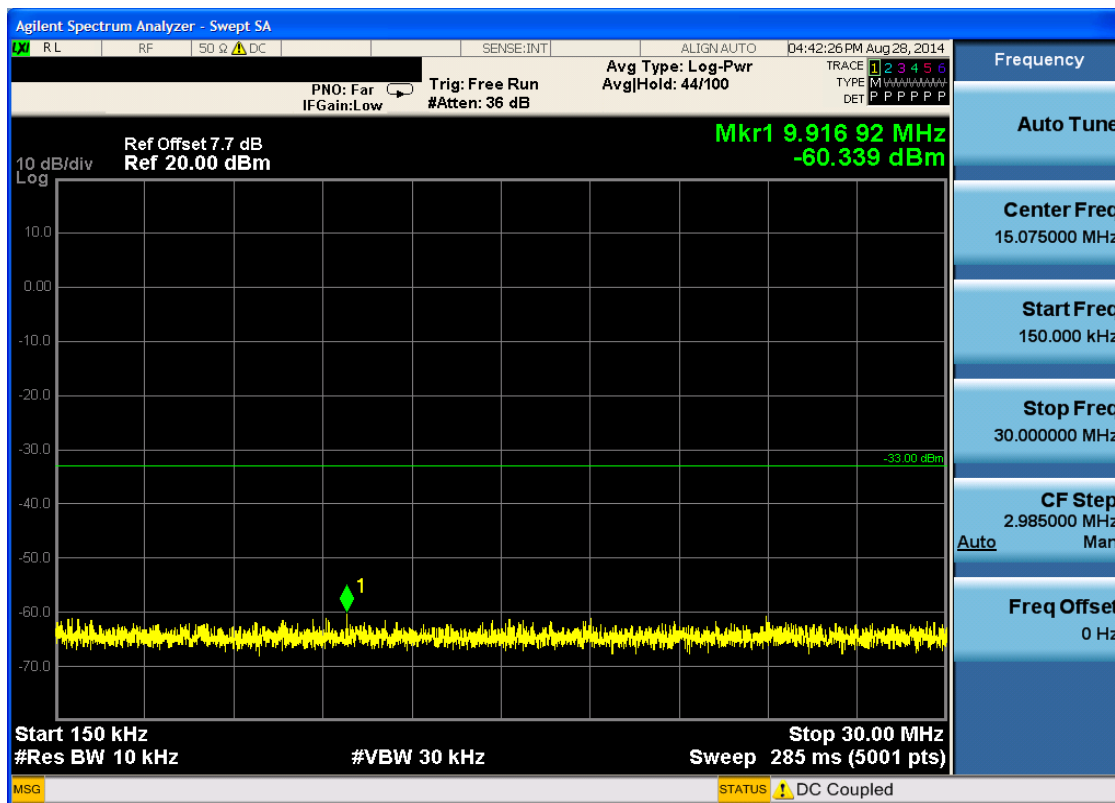


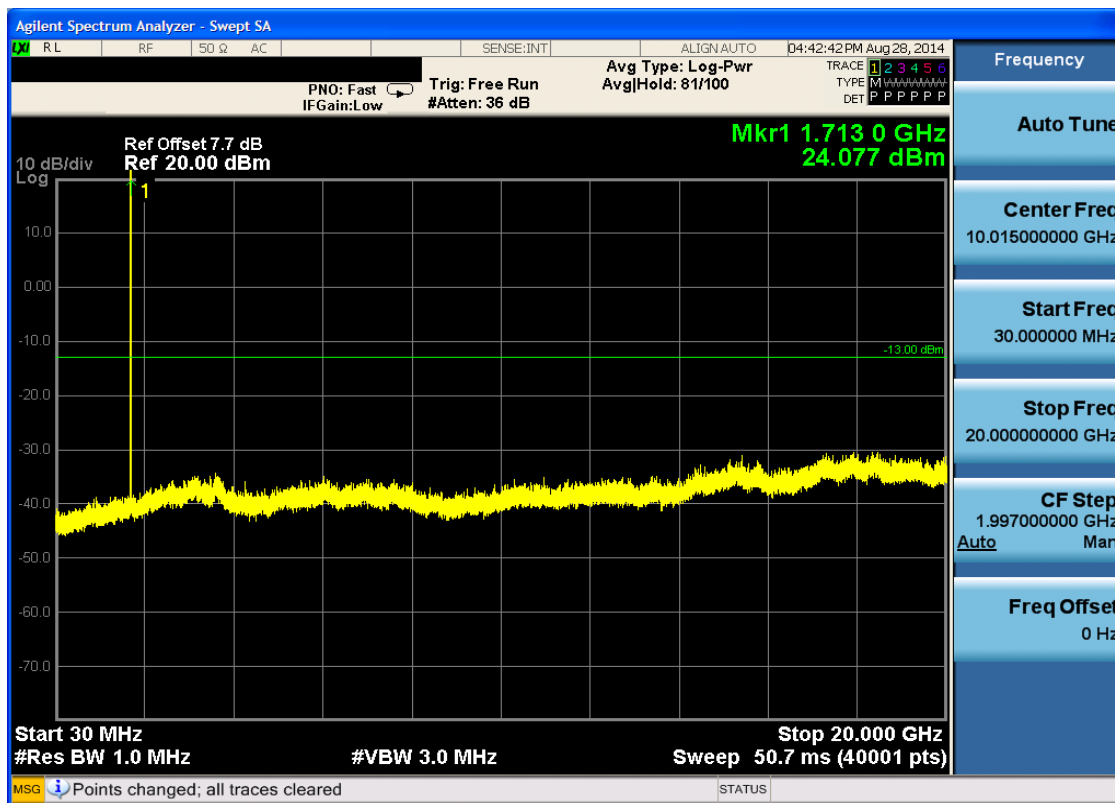
6.2.4 Test Band = WCDMA1700

6.2.4.1 Test Mode = UMTS/TM1

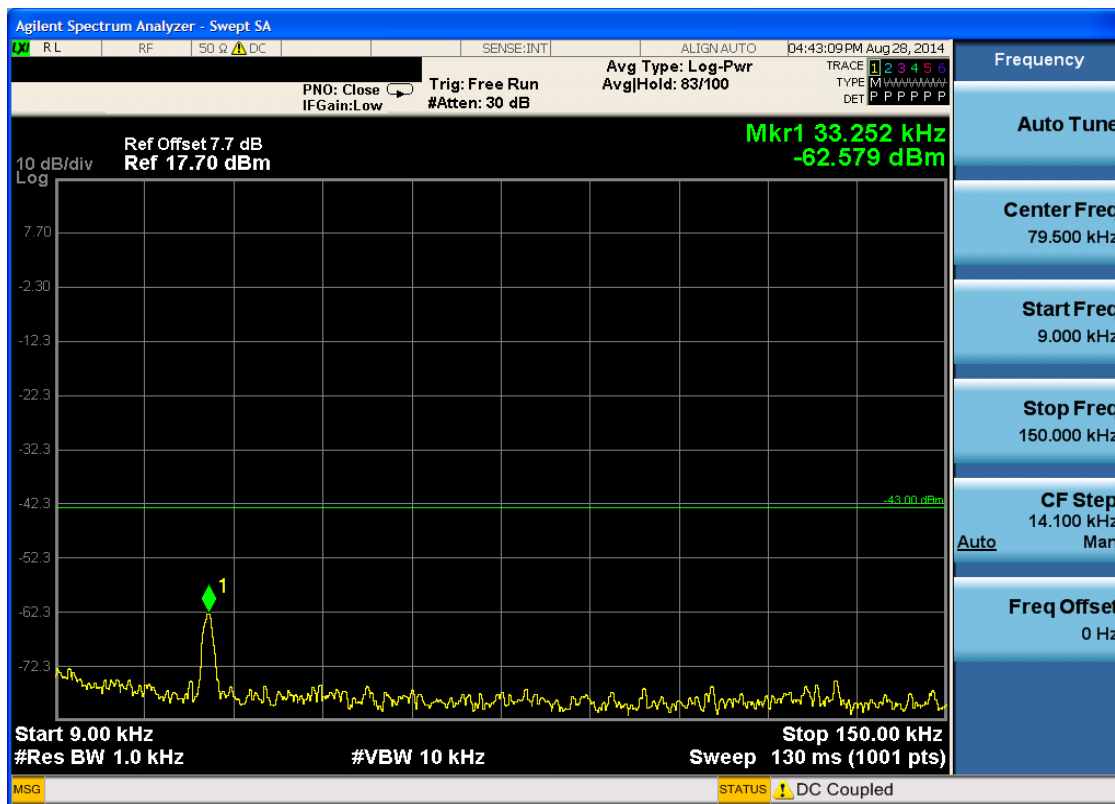
6.2.4.1.1 Test Channel = LCH

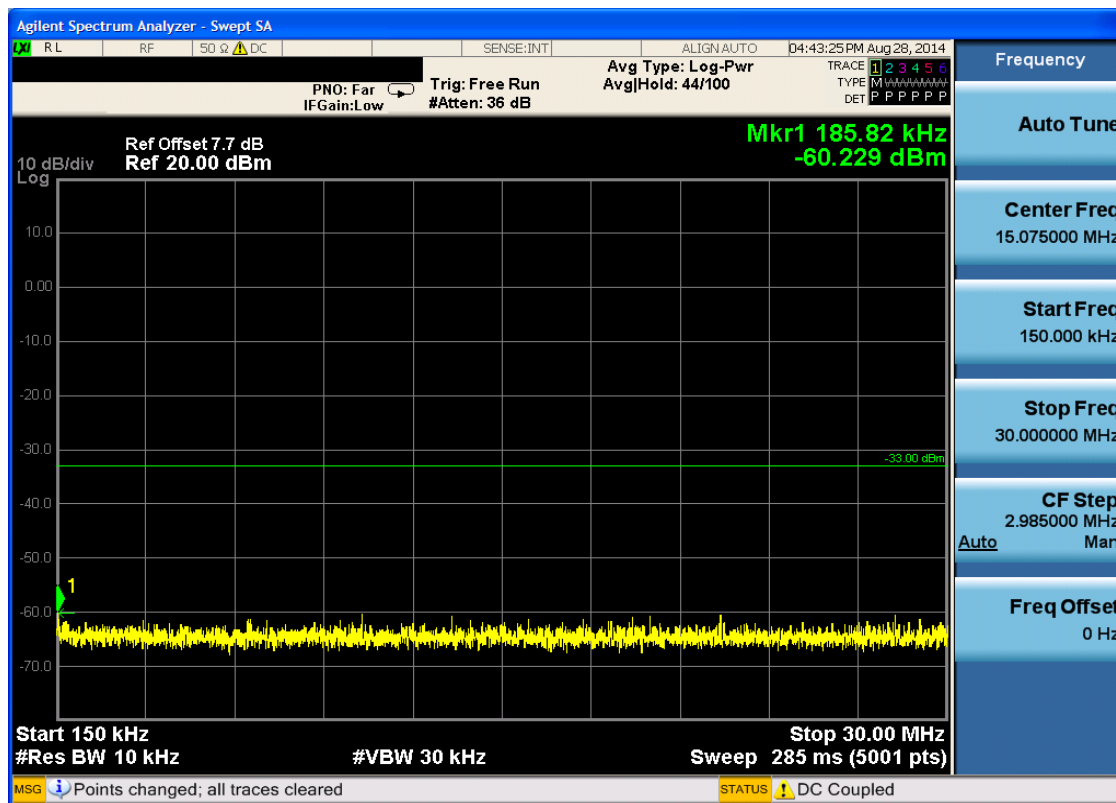


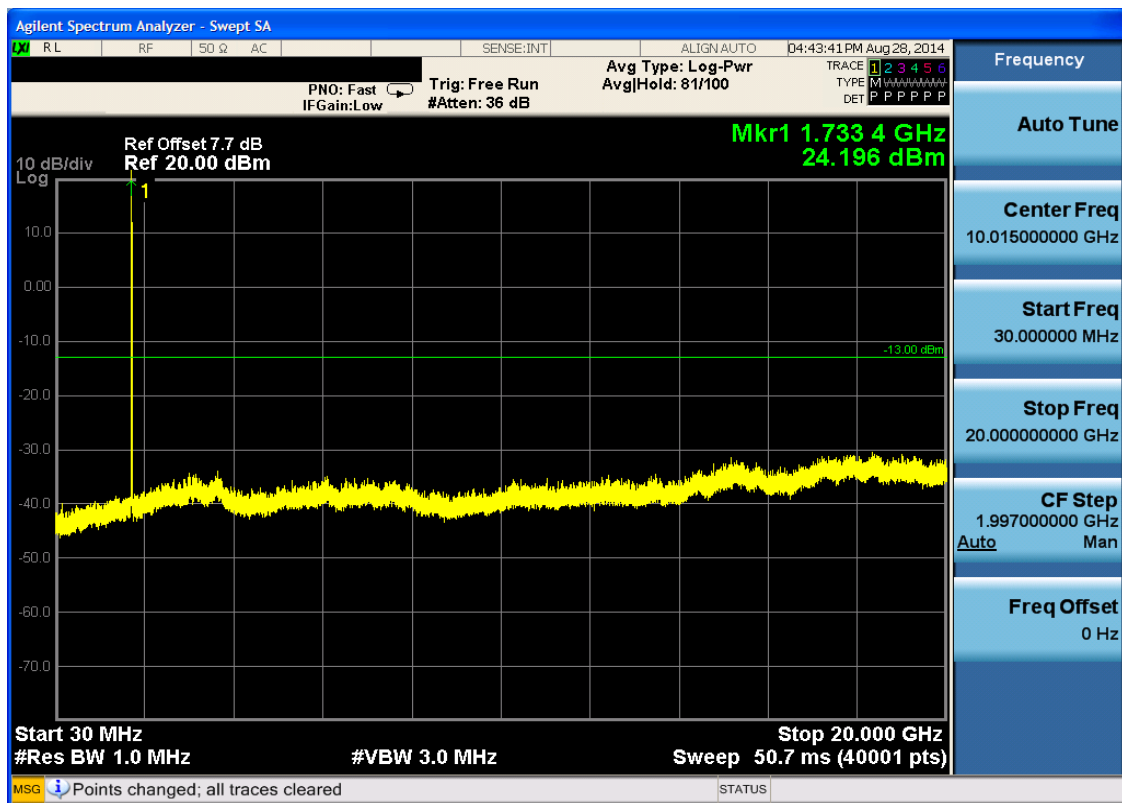




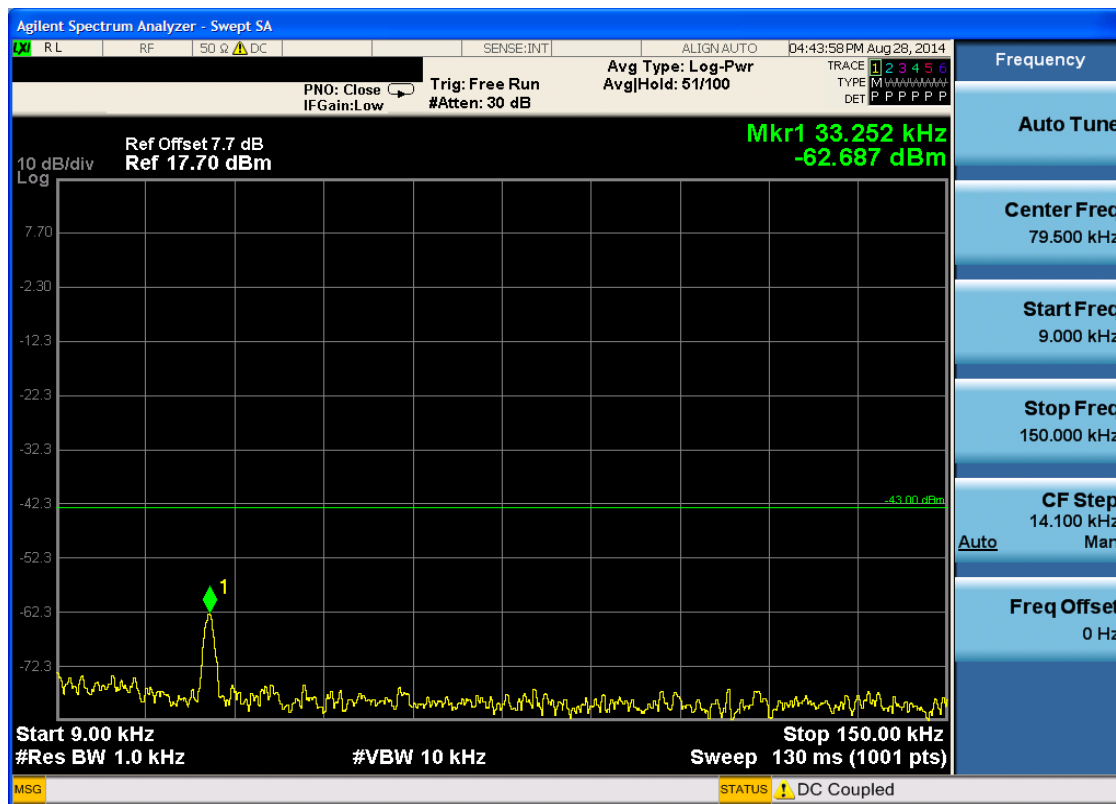
6.2.4.1.2 Test Channel = MCH

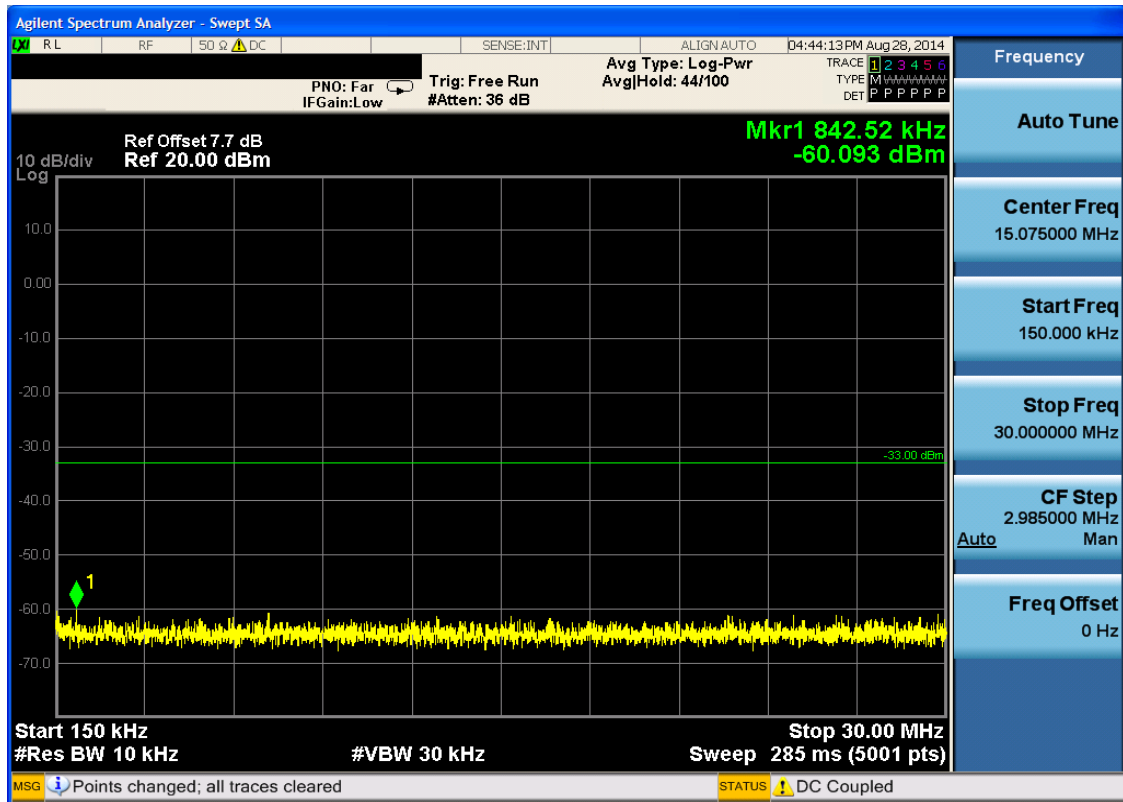


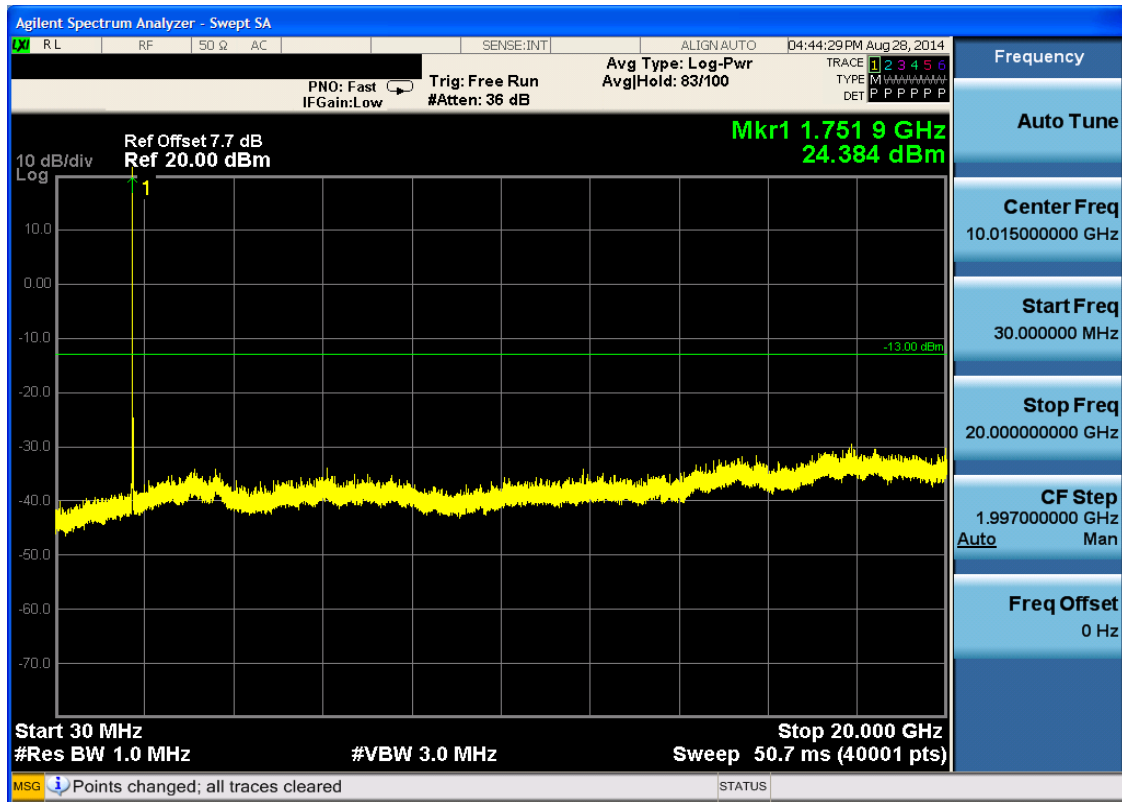




6.2.4.1.3 Test Channel = HCH







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

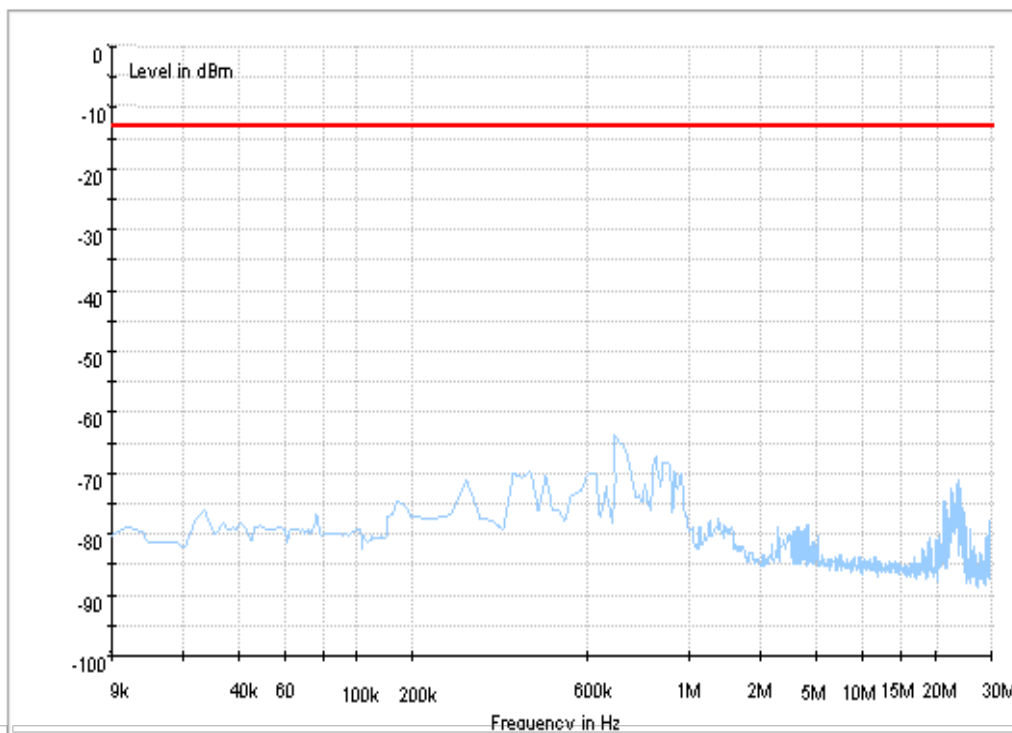
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

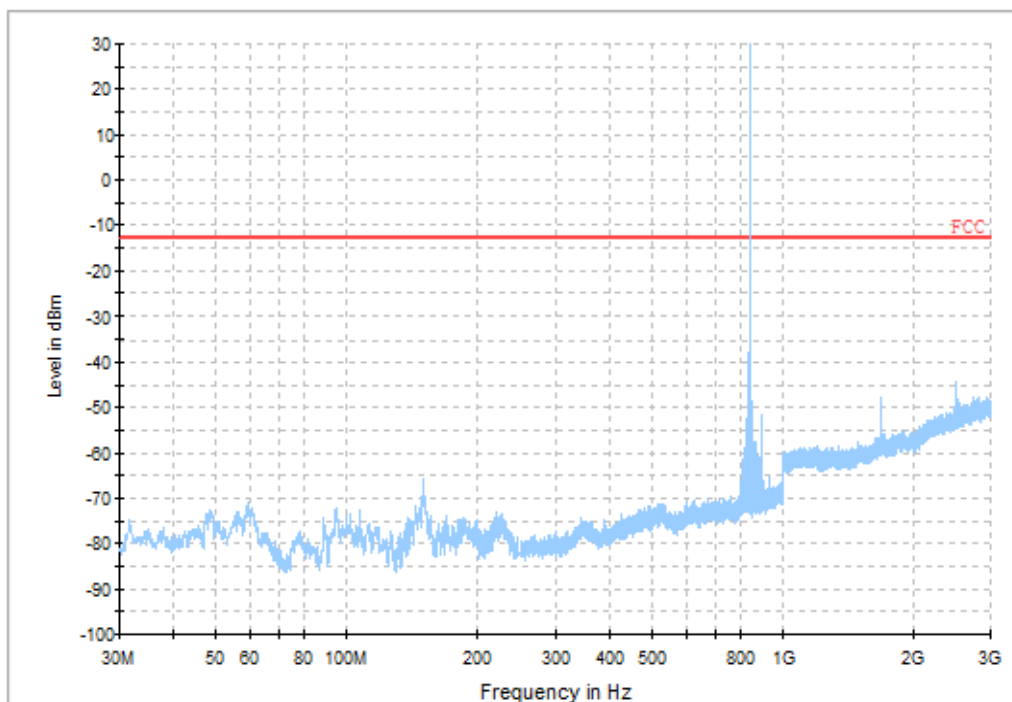
7.1 For GSM

7.1.1 Test Band = GSM850

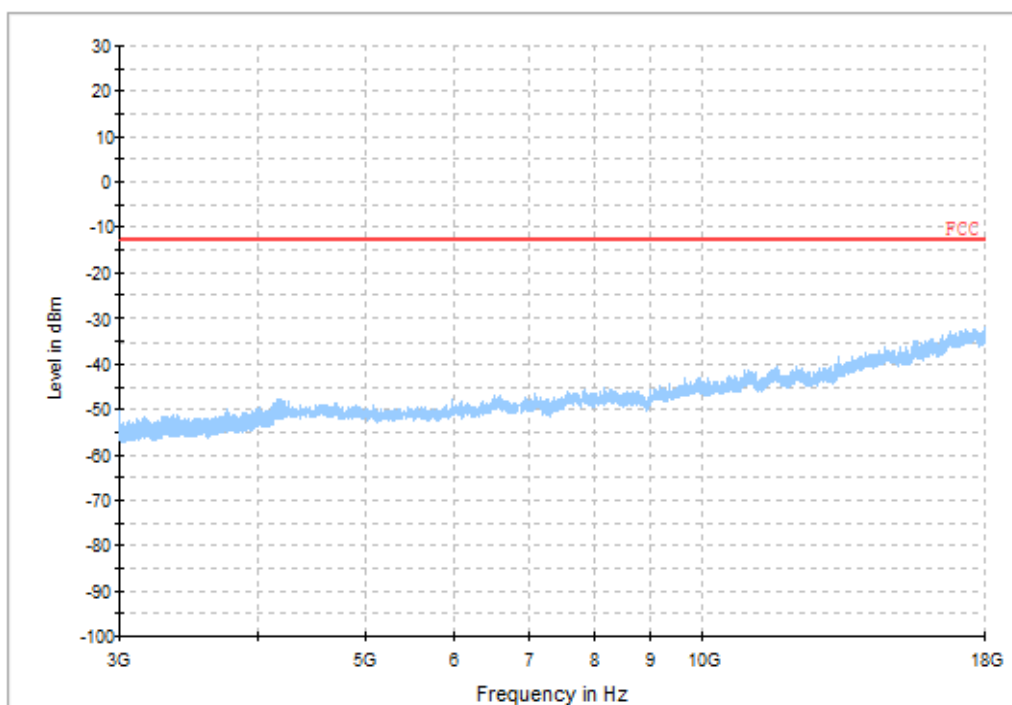
7.1.1.1 Test Mode = GSM/TM1



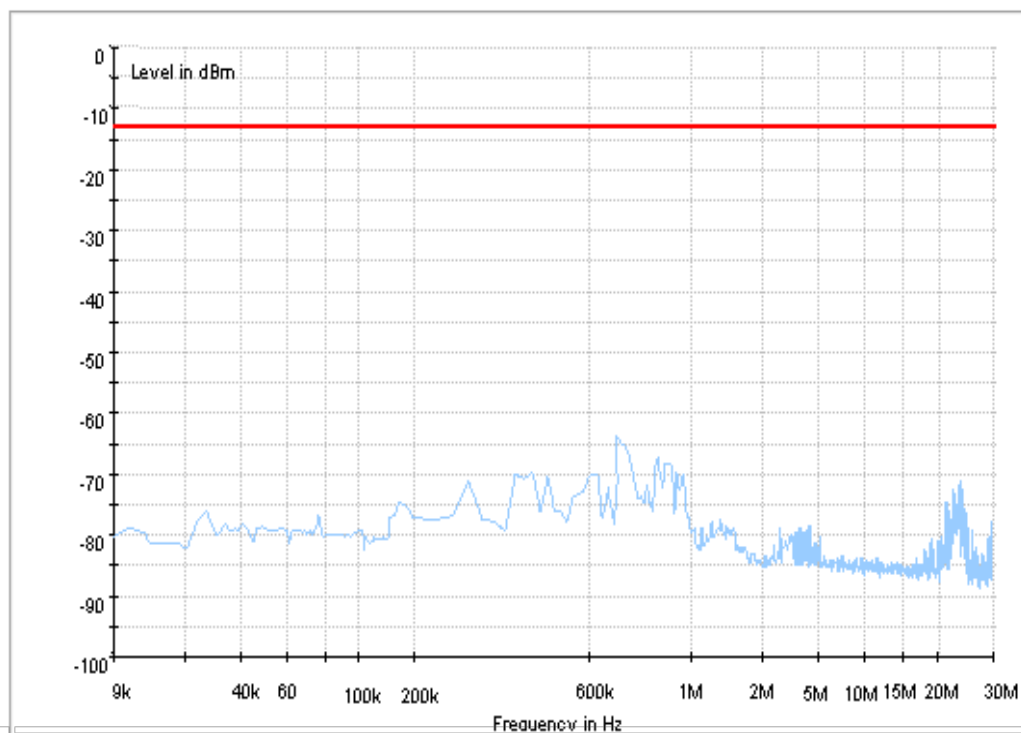
Copy of FCC PART22 GSM850_L



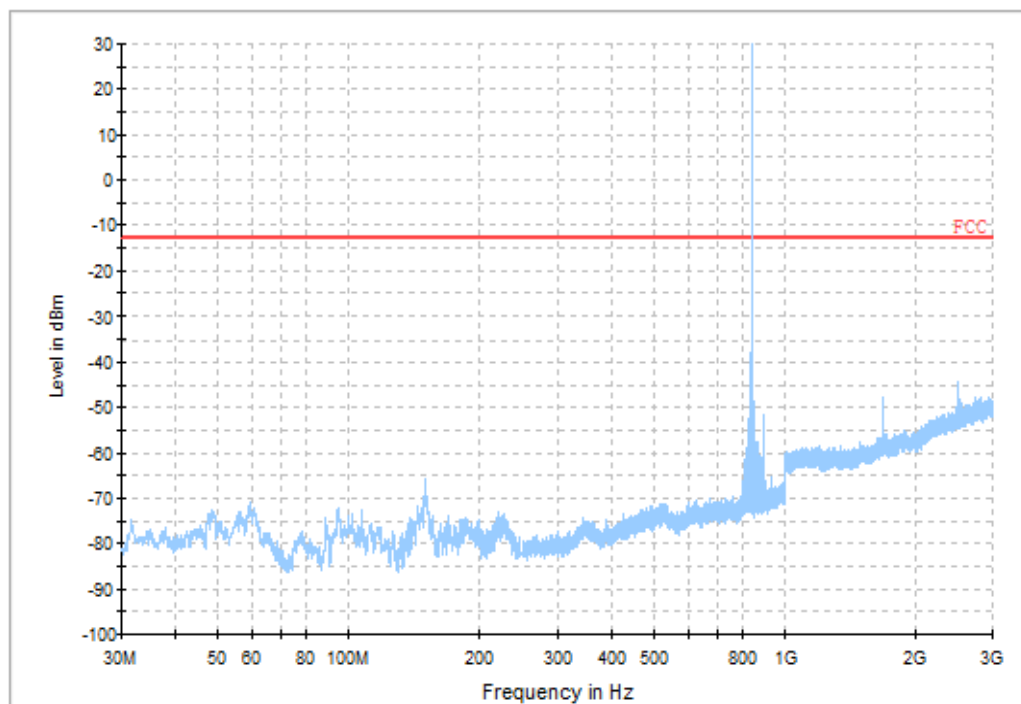
Copy of FCC PART22 GSM850_H



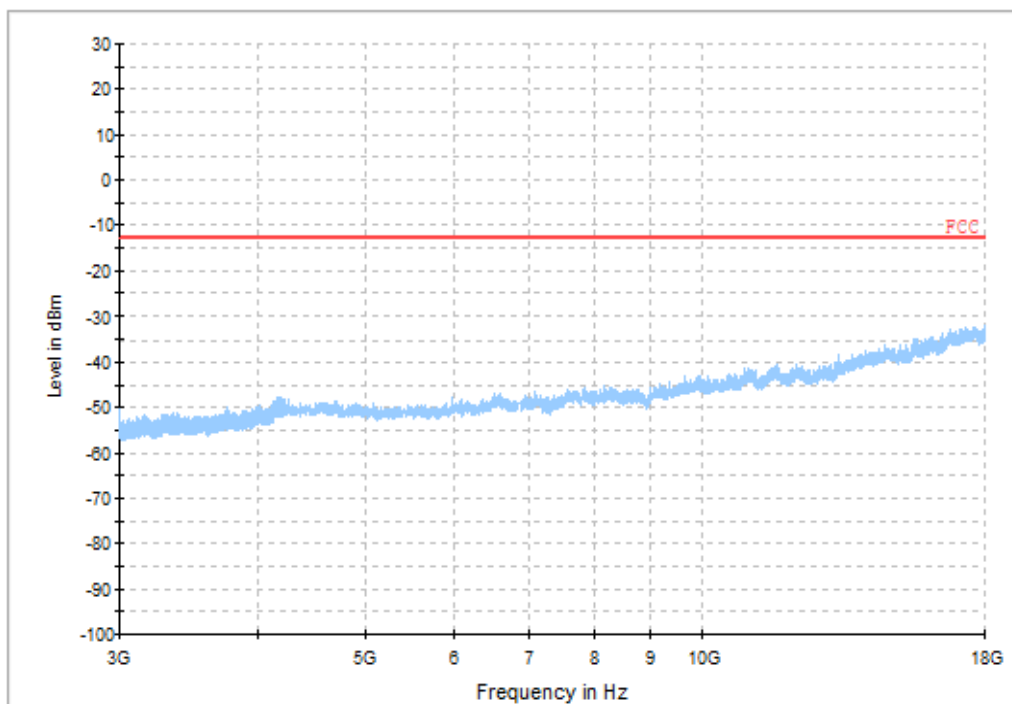
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

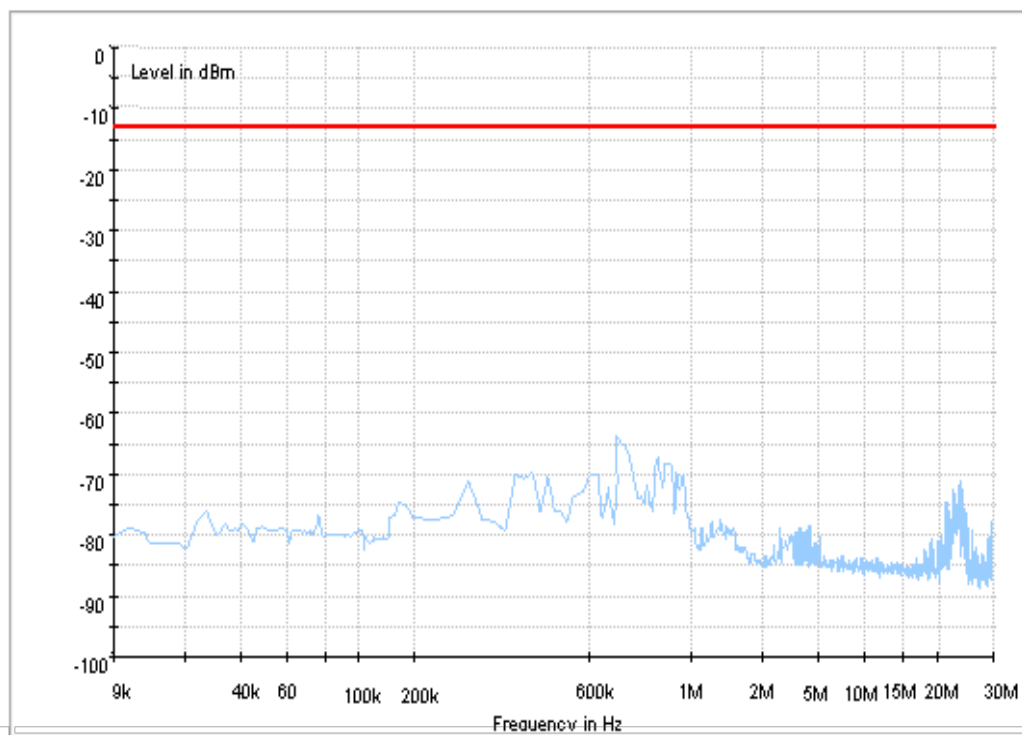


Copy of FCC PART22 GSM850_H

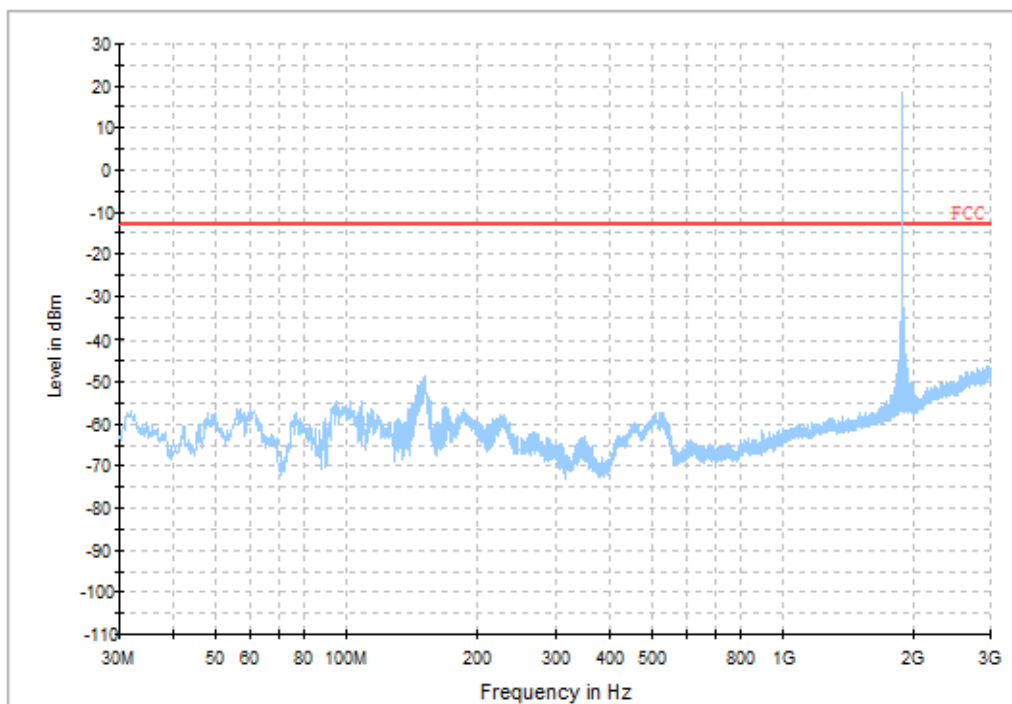


7.1.3 Test Band = GSM1900

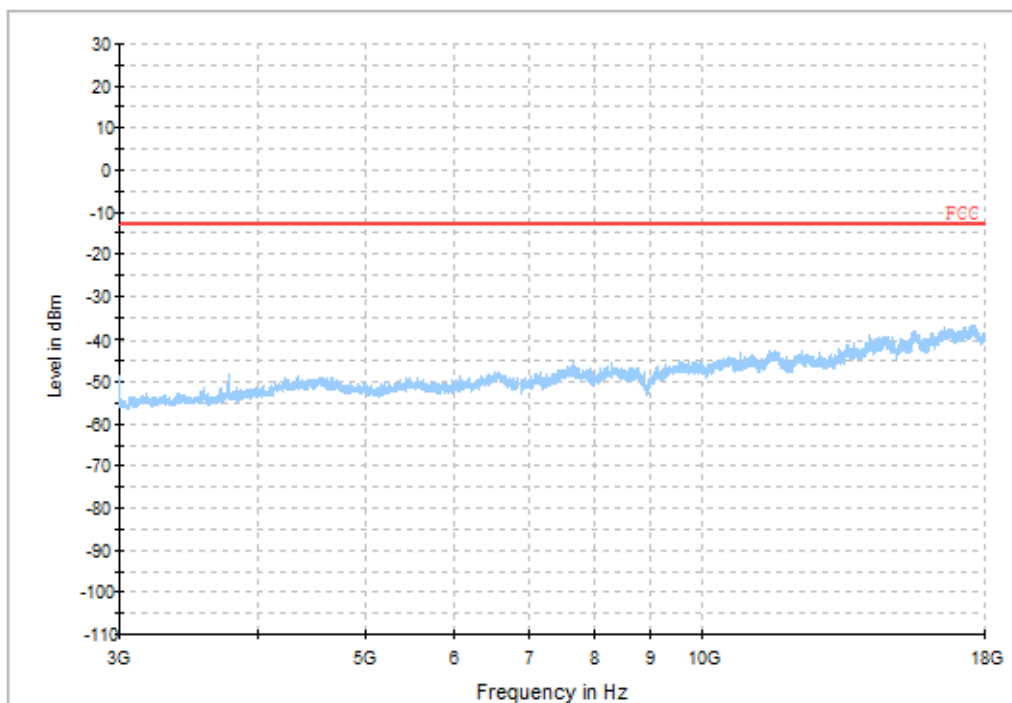
7.1.3.1 Test Mode = GSM/TM1

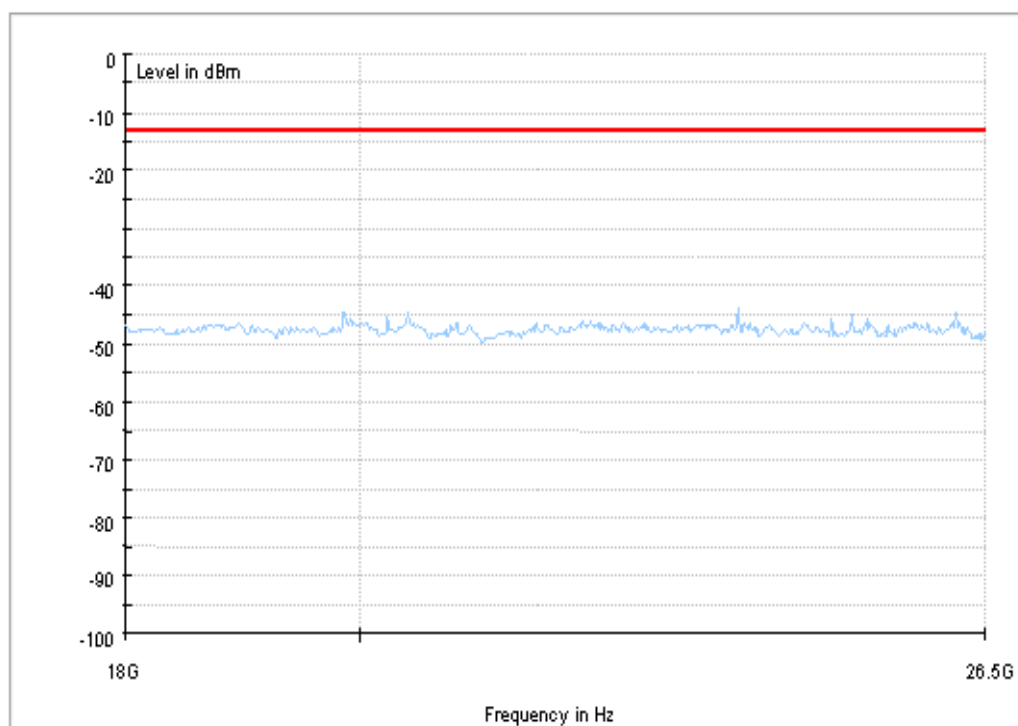


Copy of FCC PART24 GSM1900_L

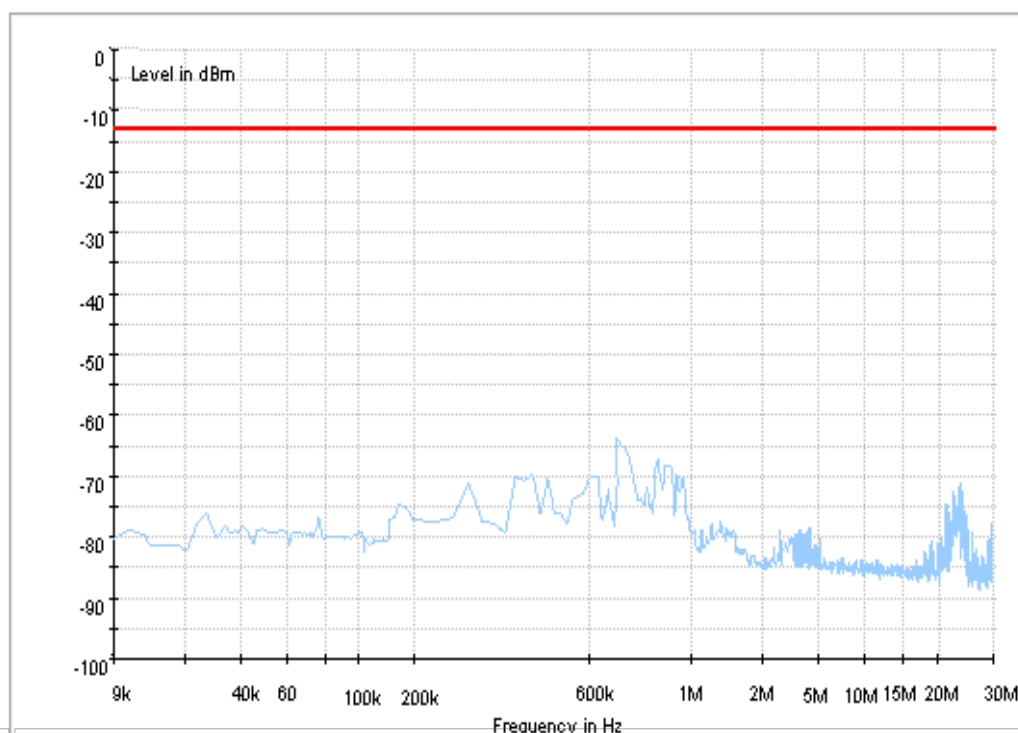


Copy of FCC PART24 GSM1900_H

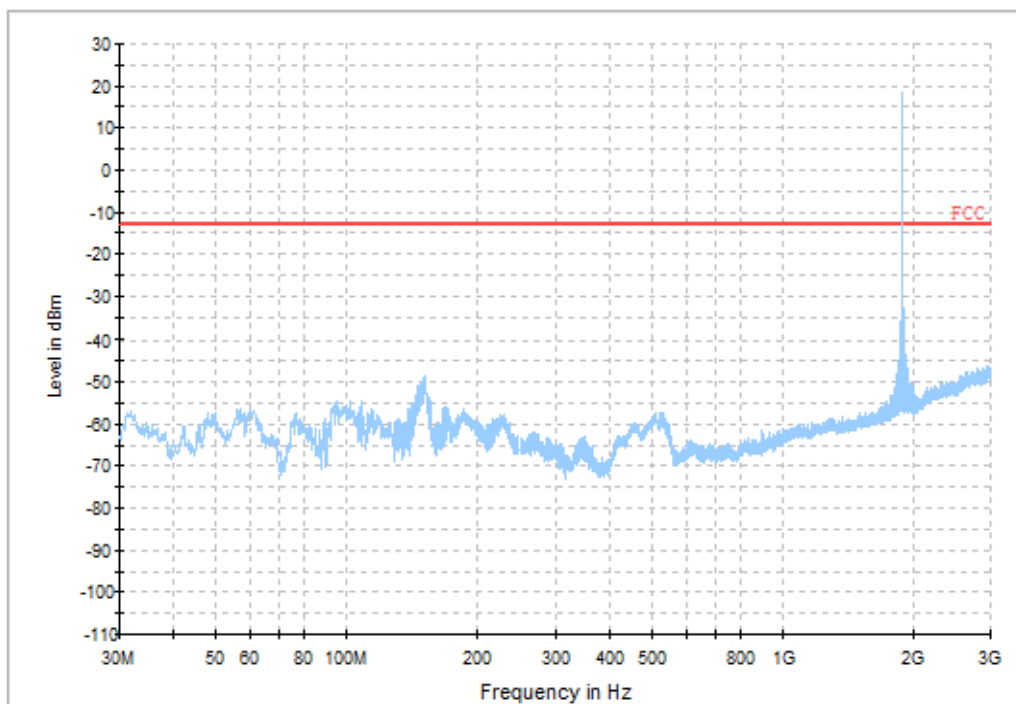




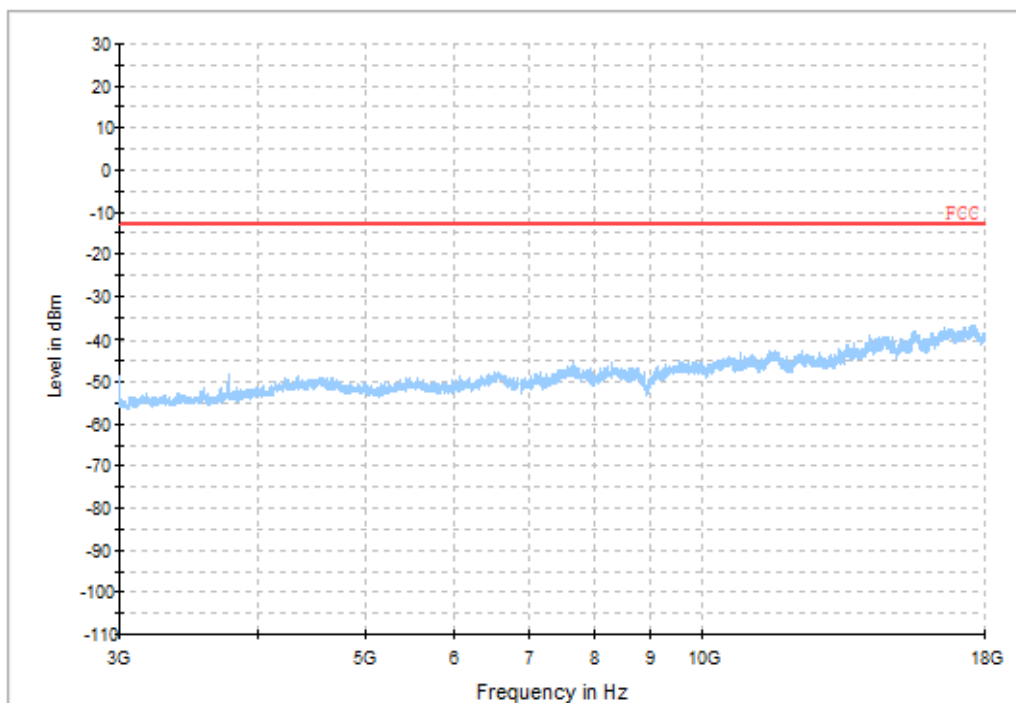
7.1.3.2 Test Mode = GSM/TM2

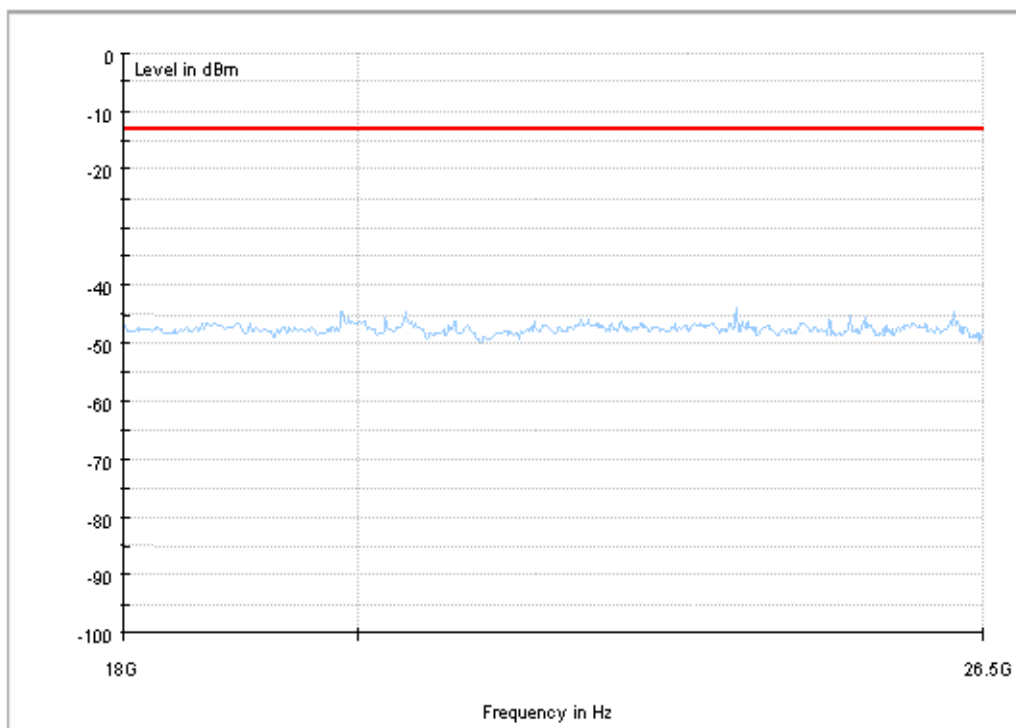


Copy of FCC PART24 GSM1900_L



Copy of FCC PART24 GSM1900_H

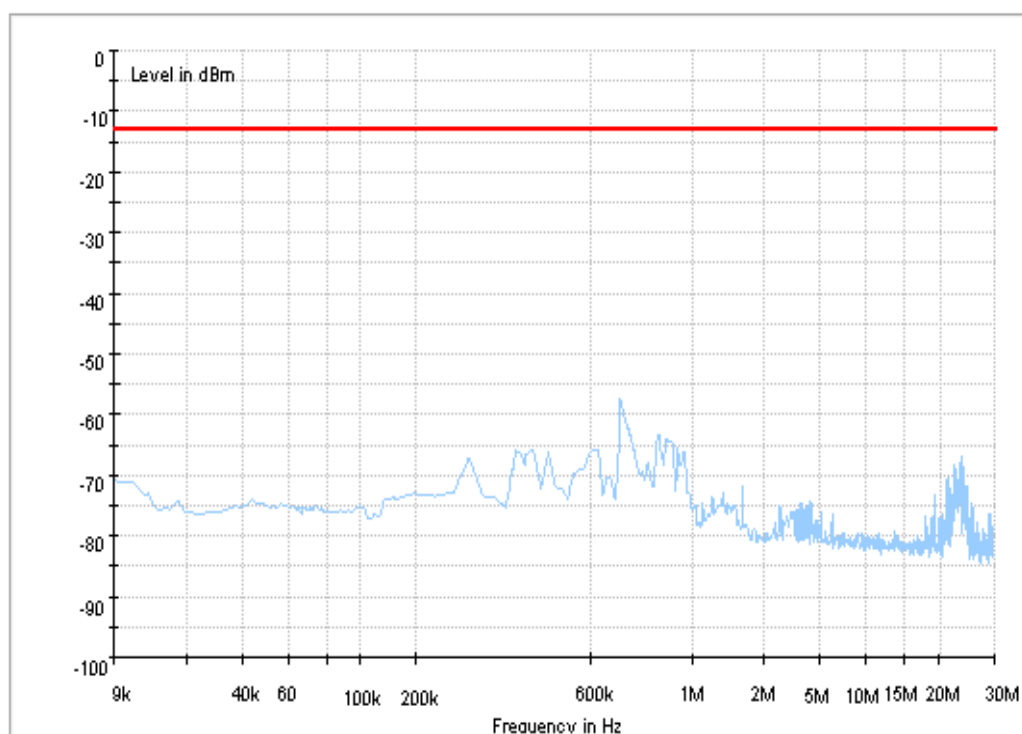




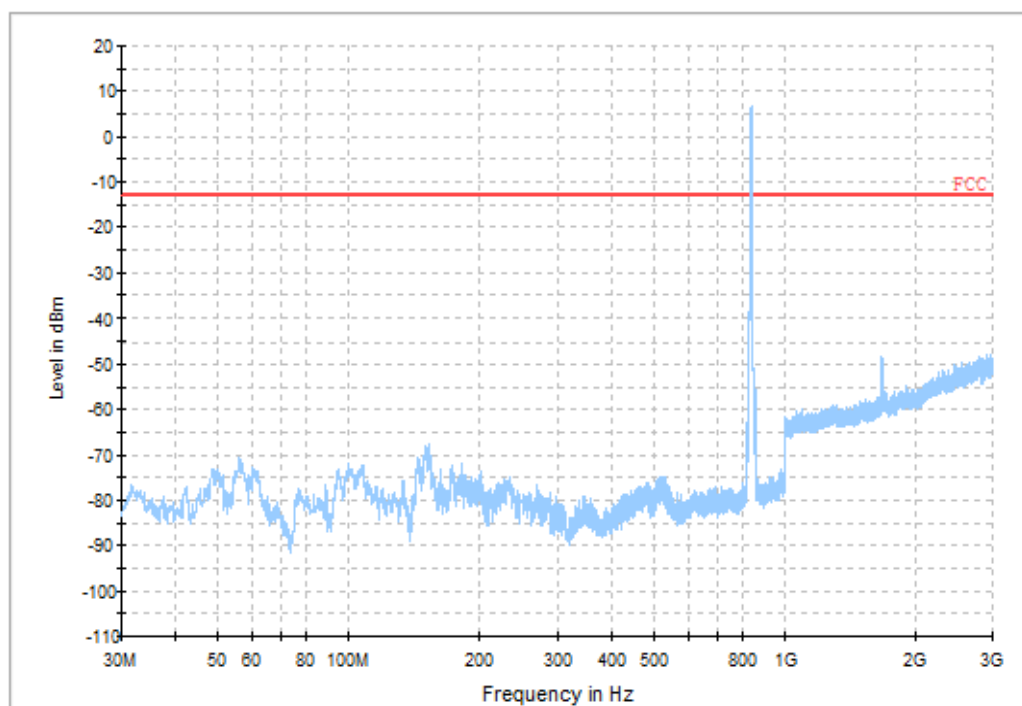
7.2 For UMTS

7.2.1 Test Band = WCDMA850

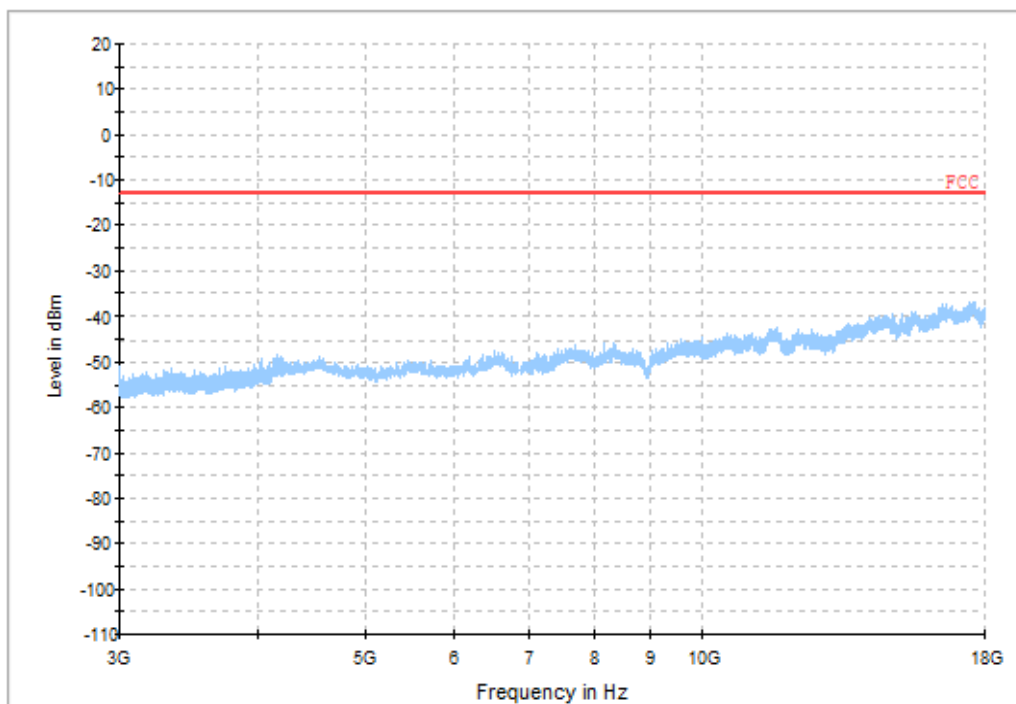
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

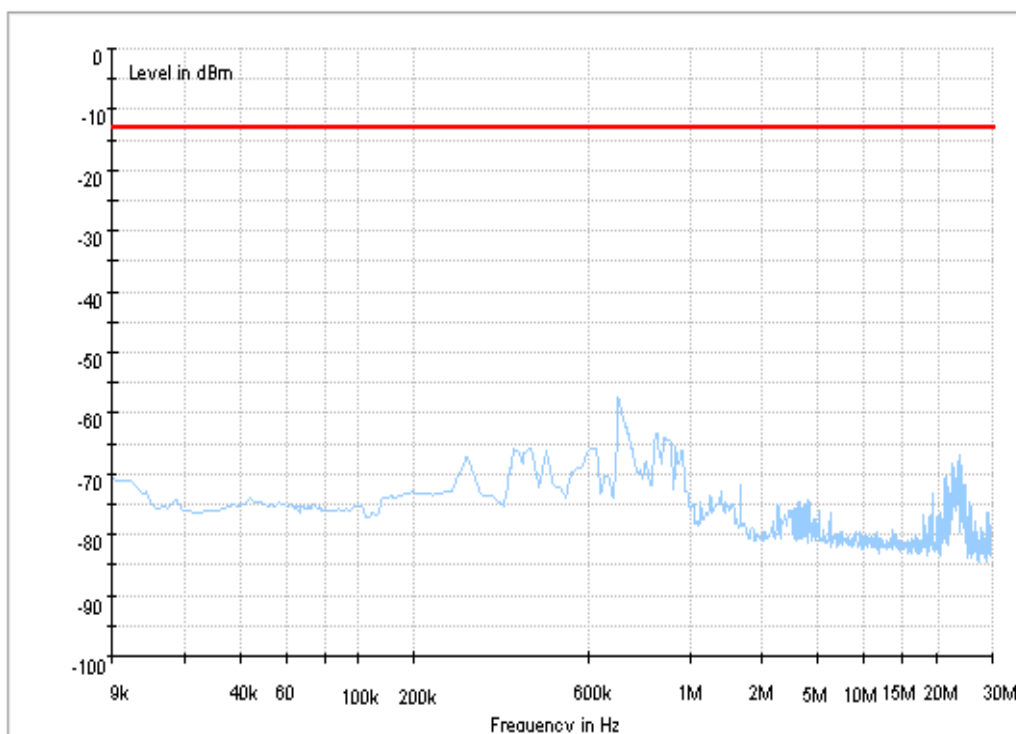


Copy of FCC PART22 WCDMA850_H

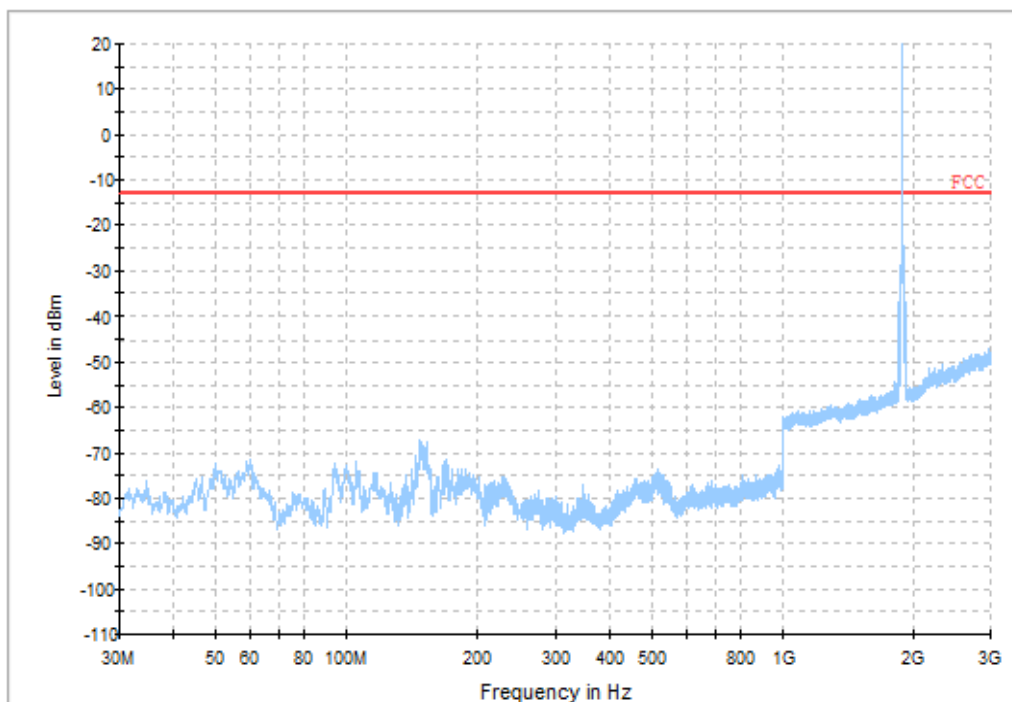


7.2.3 Test Band = WCDMA1900

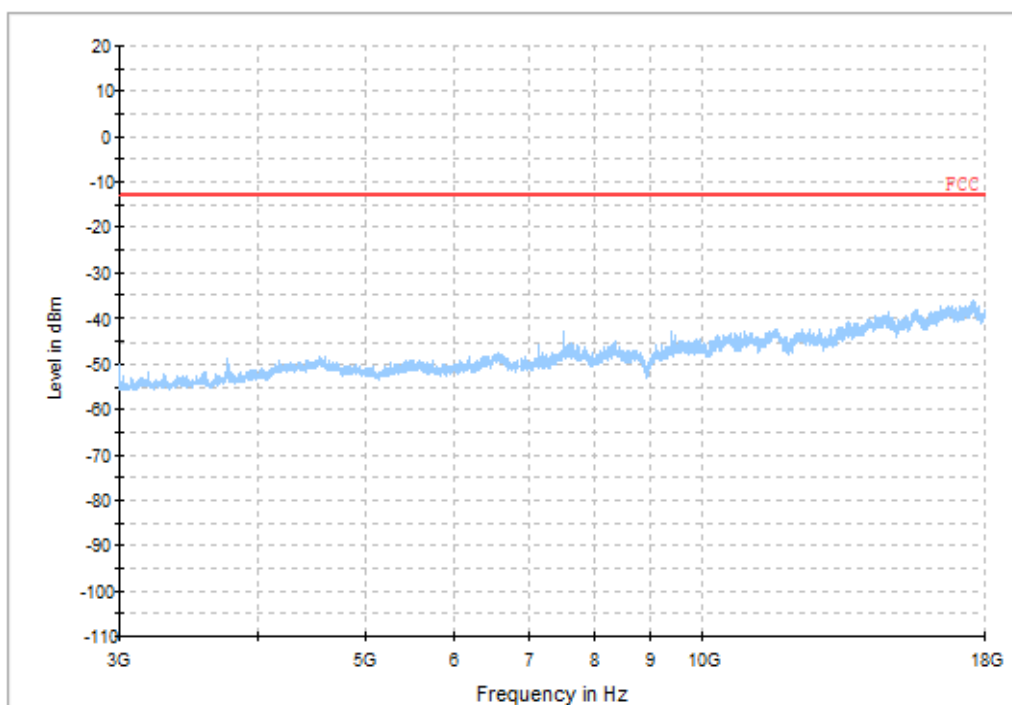
7.2.3.1 Test Mode = UMTS/TM1

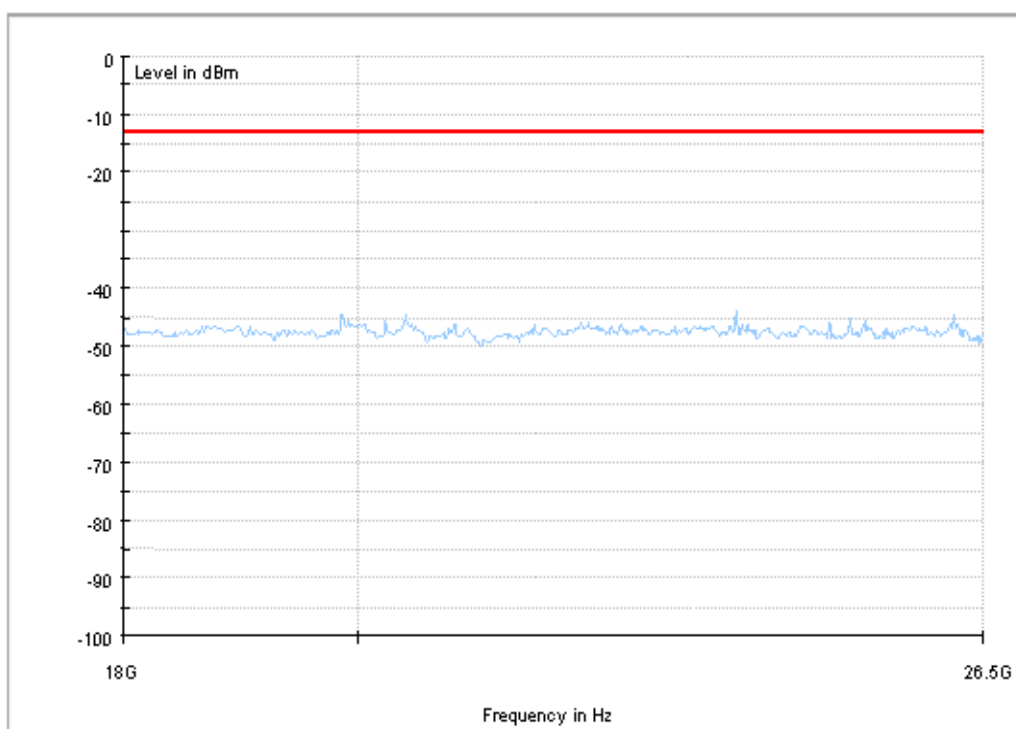


Copy of FCC PART24 WCDMA1900_L



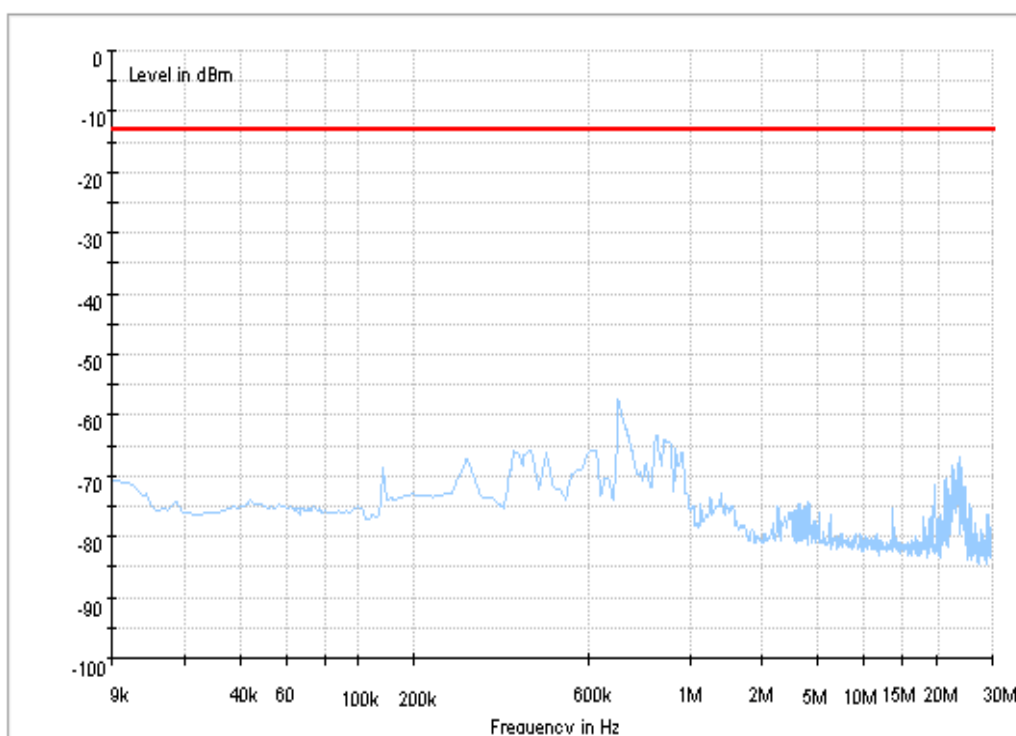
Copy of FCC PART24 WCDMA1900_H



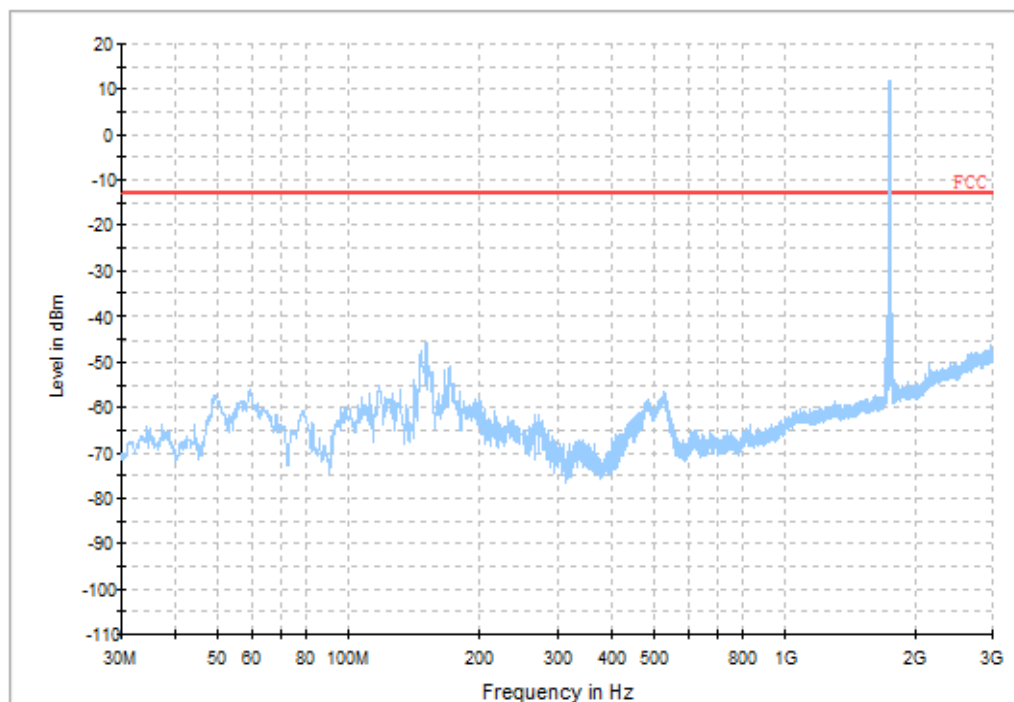


7.2.4 Test Band = WCDMA1700

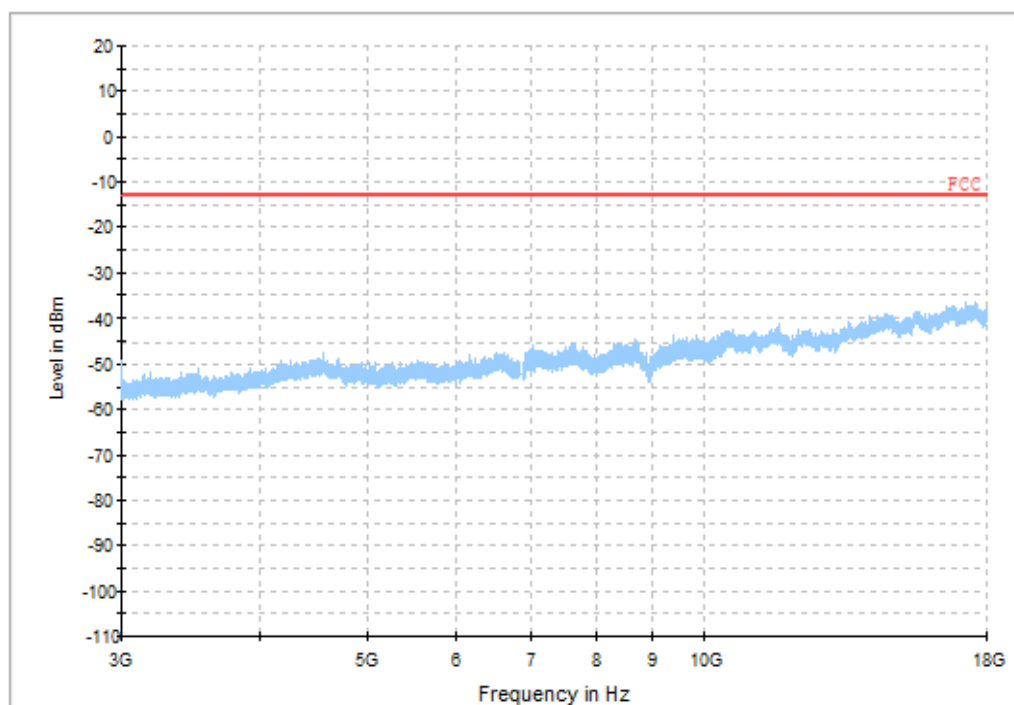
7.2.4.1 Test Mode = UMTS/TM1



Copy of FCC PART27 WCDMA1700_L



Copy of FCC PART27 WCDMA1700_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	-9.69	-0.01176	PASS
				VN	-7.04	-0.00854	PASS
				VH	-0.58	-0.0007	PASS
		MCH	TN	VL	-6.2	-0.00741	PASS
				VN	-6.52	-0.00779	PASS
				VH	-8.85	-0.01058	PASS
		HCH	TN	VL	-16.21	-0.0191	PASS
				VN	-7.1	-0.00836	PASS
				VH	-10.07	-0.01186	PASS
	GSM/TM2	LCH	TN	VL	-6.1	-0.0074	PASS
				VN	-8.52	-0.01034	PASS
				VH	-13.95	-0.01693	PASS
		MCH	TN	VL	-10.23	-0.01223	PASS
				VN	-8.65	-0.01034	PASS
				VH	-0.26	-0.00031	PASS
		HCH	TN	VL	-10.75	-0.01266	PASS
				VN	-7.55	-0.00889	PASS
				VH	-6.42	-0.00756	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-4.39	-0.00237	PASS
				VN	-2.26	-0.00122	PASS
				VH	-12.66	-0.00684	PASS
		MCH	TN	VL	-19.18	-0.0102	PASS
				VN	-11.82	-0.00629	PASS
				VH	-9.17	-0.00488	PASS
		HCH	TN	VL	-3.16	-0.00165	PASS
				VN	-4.52	-0.00237	PASS
				VH	-8.65	-0.00453	PASS
	GSM/TM2	LCH	TN	VL	-2.07	-0.00112	PASS
				VN	-1.16	-0.00063	PASS
				VH	-9.78	-0.00529	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	-6.13	-0.00326	PASS
				VN	-5.33	-0.00284	PASS
				VH	-3.2	-0.0017	PASS
		HCH	TN	VL	-9.07	-0.00475	PASS
				VN	-0.94	-0.00049	PASS
				VH	-6.88	-0.0036	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	-9.1	-0.01104	PASS
				-20	-8.98	-0.0109	PASS
				-10	-6.2	-0.00752	PASS
				0	-8.59	-0.01042	PASS
				10	-8.52	-0.01034	PASS
				20	-5.75	-0.00698	PASS
				30	-6.84	-0.0083	PASS
				40	-8.07	-0.00979	PASS
				50	-8.65	-0.0105	PASS
		MCH	VN	-30	-2.78	-0.00332	PASS
				-20	-10.85	-0.01297	PASS
				-10	-6.2	-0.00741	PASS
				0	-6.84	-0.00818	PASS
				10	-3.49	-0.00417	PASS
				20	-12.59	-0.01505	PASS
				30	-9.36	-0.01119	PASS
				40	-13.11	-0.01567	PASS
				50	-1.23	-0.00147	PASS
		HCH	VN	-30	-11.69	-0.01377	PASS
				-20	-8.98	-0.01058	PASS
				-10	-1.29	-0.00152	PASS
				0	-8.85	-0.01043	PASS
				10	-3.23	-0.00381	PASS
				20	-4.26	-0.00502	PASS
				30	-9.3	-0.01096	PASS
				40	-10.01	-0.01179	PASS
				50	-14.85	-0.0175	PASS
	GSM/TM2	LCH	VN	-30	-9.1	-0.01104	PASS
				-20	-6.39	-0.00775	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-10	-10.2	-0.01238	PASS
				0	-11.85	-0.01438	PASS
				10	-7.88	-0.00956	PASS
				20	-11.72	-0.01422	PASS
				30	-12.75	-0.01547	PASS
				40	-10.59	-0.01285	PASS
				50	-7.55	-0.00916	PASS
		MCH	VN	-30	-6.84	-0.00818	PASS
				-20	-5.52	-0.0066	PASS
				-10	-6.91	-0.00826	PASS
				0	-10.59	-0.01266	PASS
				10	-7.88	-0.00942	PASS
				20	-9.23	-0.01103	PASS
				30	-7.49	-0.00895	PASS
				40	-7.59	-0.00907	PASS
				50	-9.49	-0.01134	PASS
		HCH	VN	-30	-4.68	-0.00551	PASS
				-20	-8.65	-0.01019	PASS
				-10	-8.94	-0.01053	PASS
				0	-8.3	-0.00978	PASS
				10	-6.13	-0.00722	PASS
				20	-17.08	-0.02012	PASS
				30	-7.46	-0.00879	PASS
				40	-14.63	-0.01724	PASS
				50	-10.2	-0.01202	PASS
GSM1900	GSM/TM1	LCH	VN	-30	-12.07	-0.00652	PASS
				-20	0.45	0.00024	PASS
				-10	-5.49	-0.00297	PASS
				0	-12.66	-0.00684	PASS
				10	-3.16	-0.00171	PASS
				20	1.74	0.00094	PASS
				30	-9.62	-0.0052	PASS
				40	-8.46	-0.00457	PASS
				50	3.1	0.00168	PASS
		MCH	VN	-30	-3.94	-0.0021	PASS
				-20	-16.92	-0.009	PASS
				-10	0.77	0.00041	PASS
				0	-2	-0.00106	PASS
				10	-12.4	-0.0066	PASS
				20	0.77	0.00041	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				30	-4.07	-0.00216	PASS
				40	-5.62	-0.00299	PASS
				50	-13.11	-0.00697	PASS
		HCH	VN	-30	-9.43	-0.00494	PASS
				-20	7.43	0.00389	PASS
				-10	-11.95	-0.00626	PASS
				0	-2.65	-0.00139	PASS
				10	4.26	0.00223	PASS
				20	-12.66	-0.00663	PASS
				30	-4.65	-0.00243	PASS
				40	-2.2	-0.00115	PASS
				50	-11.11	-0.00582	PASS
	GSM/TM2	LCH	VN	-30	-3.49	-0.00189	PASS
				-20	-3	-0.00162	PASS
				-10	-6.39	-0.00345	PASS
				0	4.29	0.00232	PASS
				10	-5.1	-0.00276	PASS
				20	-4.58	-0.00248	PASS
				30	-11.49	-0.00621	PASS
				40	-16.24	-0.00878	PASS
				50	-4	-0.00216	PASS
		MCH	VN	-30	-2.26	-0.0012	PASS
				-20	-5.55	-0.00295	PASS
				-10	0.94	0.0005	PASS
				0	-8.59	-0.00457	PASS
				10	-4.84	-0.00257	PASS
				20	-8.68	-0.00462	PASS
				30	-10.33	-0.00549	PASS
				40	-3.78	-0.00201	PASS
				50	-11.62	-0.00618	PASS
		HCH	VN	-30	-2.32	-0.00121	PASS
				-20	-9.3	-0.00487	PASS
				-10	-0.48	-0.00025	PASS
				0	-11.43	-0.00598	PASS
				10	-7.33	-0.00384	PASS
				20	-1.19	-0.00062	PASS
				30	-9.85	-0.00516	PASS
				40	-9.94	-0.0052	PASS
				50	-12.07	-0.00632	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	1.75	0.00212	PASS
				VN	0.32	0.00039	PASS
				VH	3.08	0.00373	PASS
		MCH	TN	VL	-3.19	-0.00381	PASS
				VN	0.26	0.00031	PASS
				VH	-1.82	-0.00218	PASS
		HCH	TN	VL	-1.66	-0.00196	PASS
				VN	-5.33	-0.0063	PASS
				VH	-1.88	-0.00222	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-3.22	-0.00174	PASS
				VN	-0.38	-0.00021	PASS
				VH	2.3	0.00124	PASS
		MCH	TN	VL	-4.55	-0.00242	PASS
				VN	-6.06	-0.00322	PASS
				VH	-5.94	-0.00316	PASS
		HCH	TN	VL	-10.82	-0.00567	PASS
				VN	-12.45	-0.00653	PASS
				VH	-14.37	-0.00753	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	14.4	0.00841	PASS
				VN	14.36	0.00839	PASS
				VH	15.29	0.00893	PASS
		MCH	TN	VL	1.48	0.00085	PASS
				VN	2.69	0.00155	PASS
				VH	-3.4	-0.00196	PASS
		HCH	TN	VL	-21.09	-0.01203	PASS
				VN	-16.39	-0.00935	PASS
				VH	-22.28	-0.01271	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	0.61	0.00074	PASS
				-20	2.35	0.00284	PASS
				-10	3.13	0.00379	PASS
				0	4.32	0.00523	PASS
				10	2.32	0.00281	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	2.75	0.00333	PASS
				40	1.1	0.00133	PASS
				50	-0.58	-0.0007	PASS
		MCH	VN	-30	0.32	0.00038	PASS
				-20	-0.08	-0.0001	PASS
				-10	3.49	0.00417	PASS
				0	-2.23	-0.00267	PASS
				10	0.38	0.00045	PASS
				20	-4.21	-0.00503	PASS
				30	0.49	0.00059	PASS
				40	-0.96	-0.00115	PASS
				50	1.02	0.00122	PASS
		HCH	VN	-30	0.37	0.00044	PASS
				-20	-3.2	-0.00378	PASS
				-10	-2.66	-0.00314	PASS
				0	-2.41	-0.00285	PASS
				10	-2.12	-0.0025	PASS
				20	-3.39	-0.004	PASS
				30	-4.17	-0.00493	PASS
				40	-5.78	-0.00683	PASS
				50	-3.31	-0.00391	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	1.21	0.00065	PASS
				-20	-3.05	-0.00165	PASS
				-10	0.21	0.00011	PASS
				0	1.57	0.00085	PASS
				10	-2.41	-0.0013	PASS
				20	-1.1	-0.00059	PASS
				30	-0.23	-0.00012	PASS
				40	-0.69	-0.00037	PASS
				50	-3.86	-0.00208	PASS
		MCH	VN	-30	-1.3	-0.00069	PASS
				-20	-9.32	-0.00496	PASS
				-10	-5.66	-0.00301	PASS
				0	-4.76	-0.00253	PASS
				10	-2.91	-0.00155	PASS
				20	-5.54	-0.00295	PASS
				30	-6.97	-0.00371	PASS
				40	-9.54	-0.00507	PASS
				50	-3.31	-0.00176	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	-30	-9.9	-0.00519	PASS
				-20	-14.05	-0.00737	PASS
				-10	-10.31	-0.0054	PASS
				0	-9.67	-0.00507	PASS
				10	-12.13	-0.00636	PASS
				20	-13.11	-0.00687	PASS
				30	-11.02	-0.00578	PASS
				40	-10.24	-0.00537	PASS
				50	-10.38	-0.00544	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	13.92	0.00813	PASS
				-20	11.66	0.00681	PASS
				-10	9.28	0.00542	PASS
				0	13.43	0.00784	PASS
				10	13.87	0.0081	PASS
				20	14.56	0.0085	PASS
				30	10.83	0.00632	PASS
				40	13.14	0.00767	PASS
				50	11.02	0.00644	PASS
		MCH	VN	-30	-0.2	-0.00012	PASS
				-20	1.91	0.0011	PASS
				-10	2.61	0.00151	PASS
				0	-0.29	-0.00017	PASS
				10	0.52	0.0003	PASS
				20	0.67	0.00039	PASS
				30	-1.92	-0.00111	PASS
				40	-0.76	-0.00044	PASS
				50	1.74	0.001	PASS
		HCH	VN	-30	-27.34	-0.0156	PASS
				-20	-19.38	-0.01106	PASS
				-10	-20.87	-0.01191	PASS
				0	-23.18	-0.01323	PASS
				10	-21.26	-0.01213	PASS
				20	-19.47	-0.01111	PASS
				30	-24.78	-0.01414	PASS
				40	-21.07	-0.01202	PASS
				50	-17.87	-0.0102	PASS

END