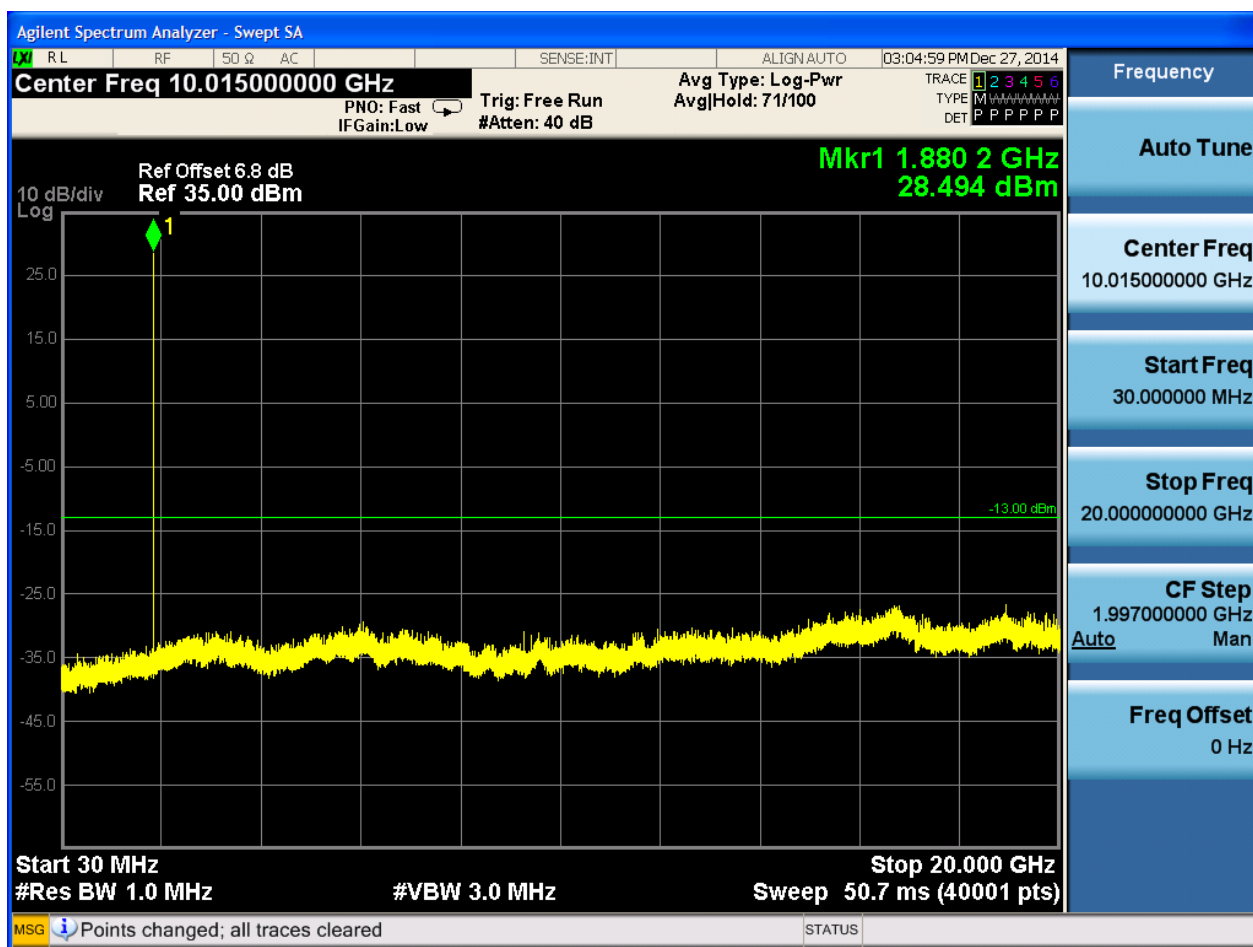
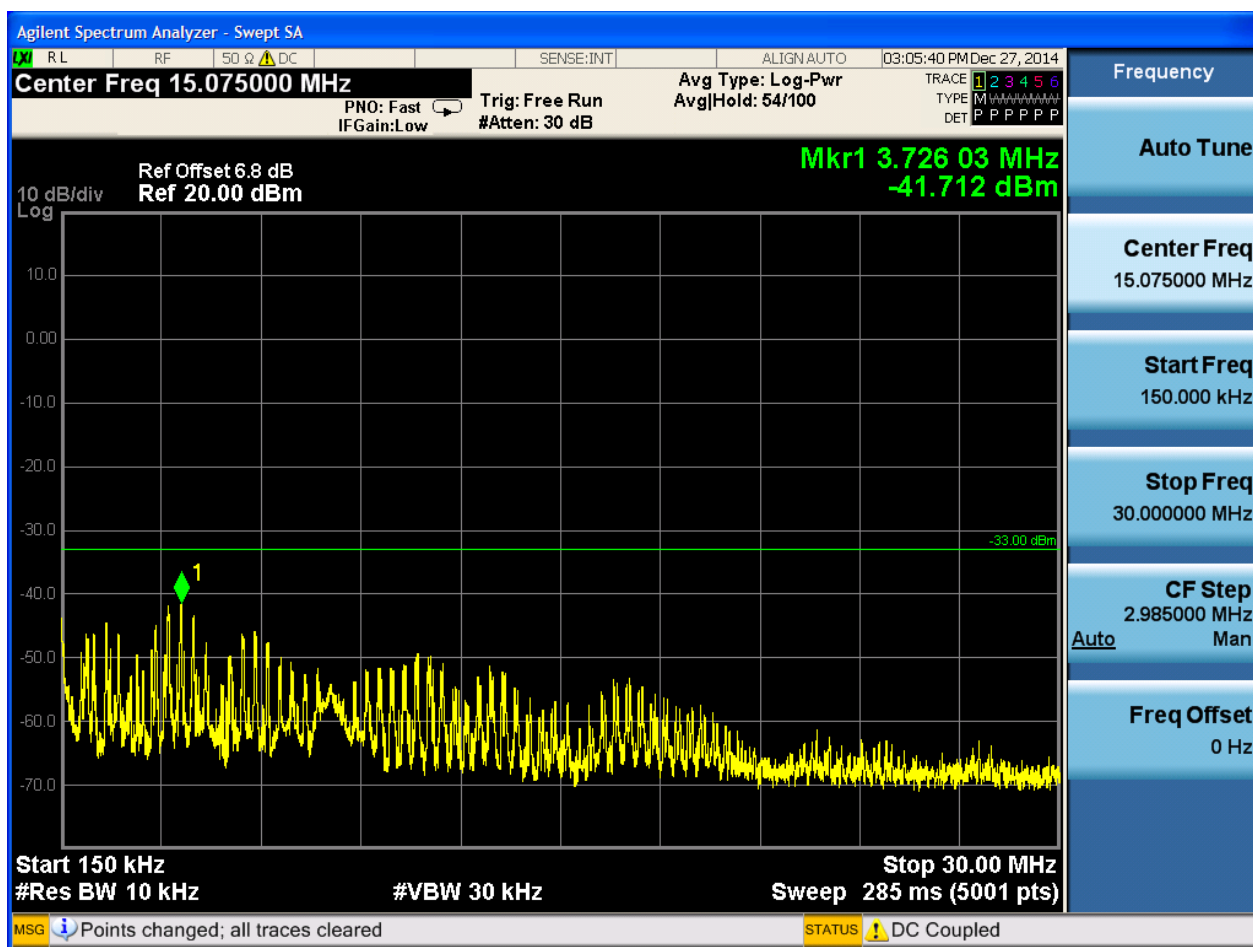
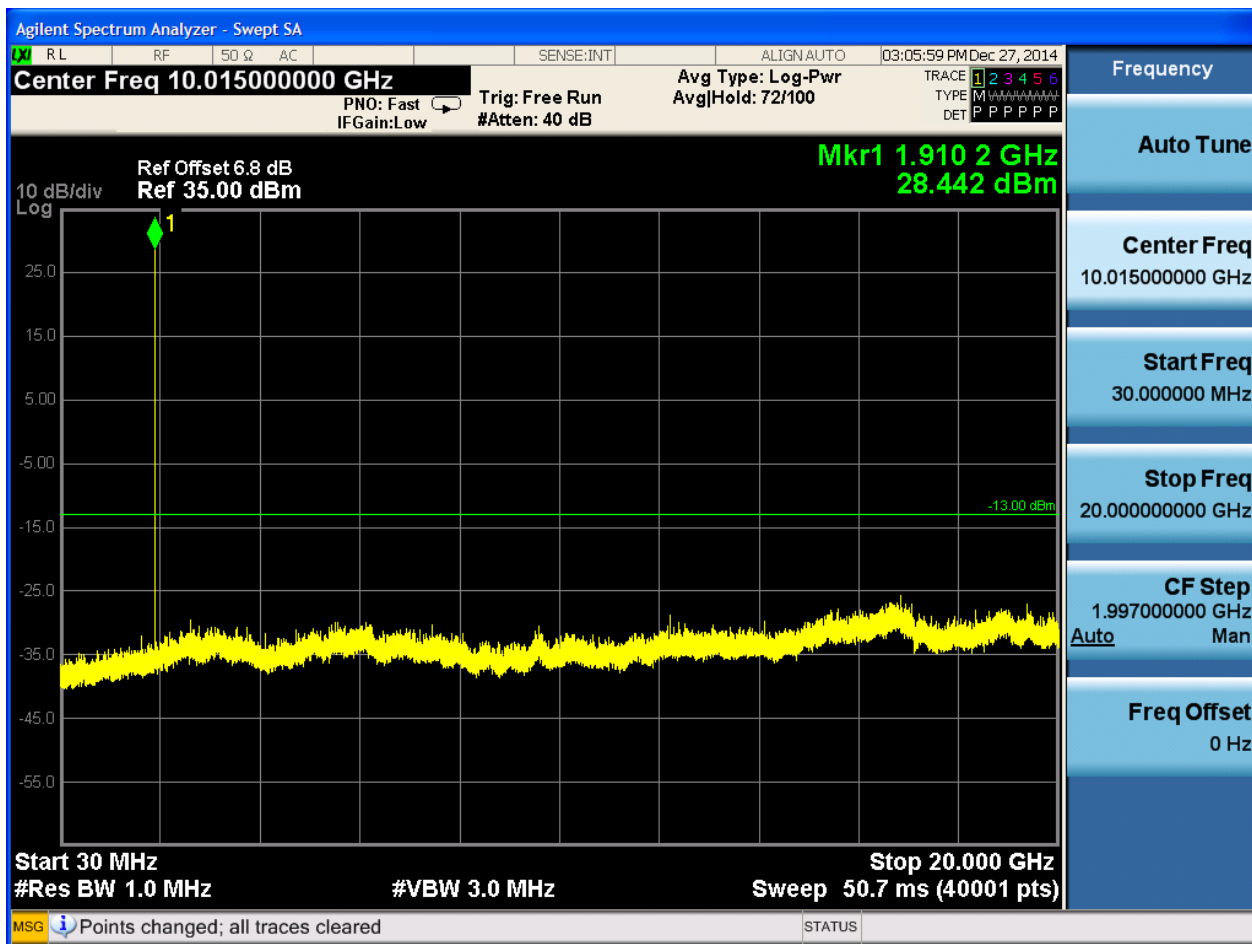




6.1.2.1.3 Test Channel = HCH





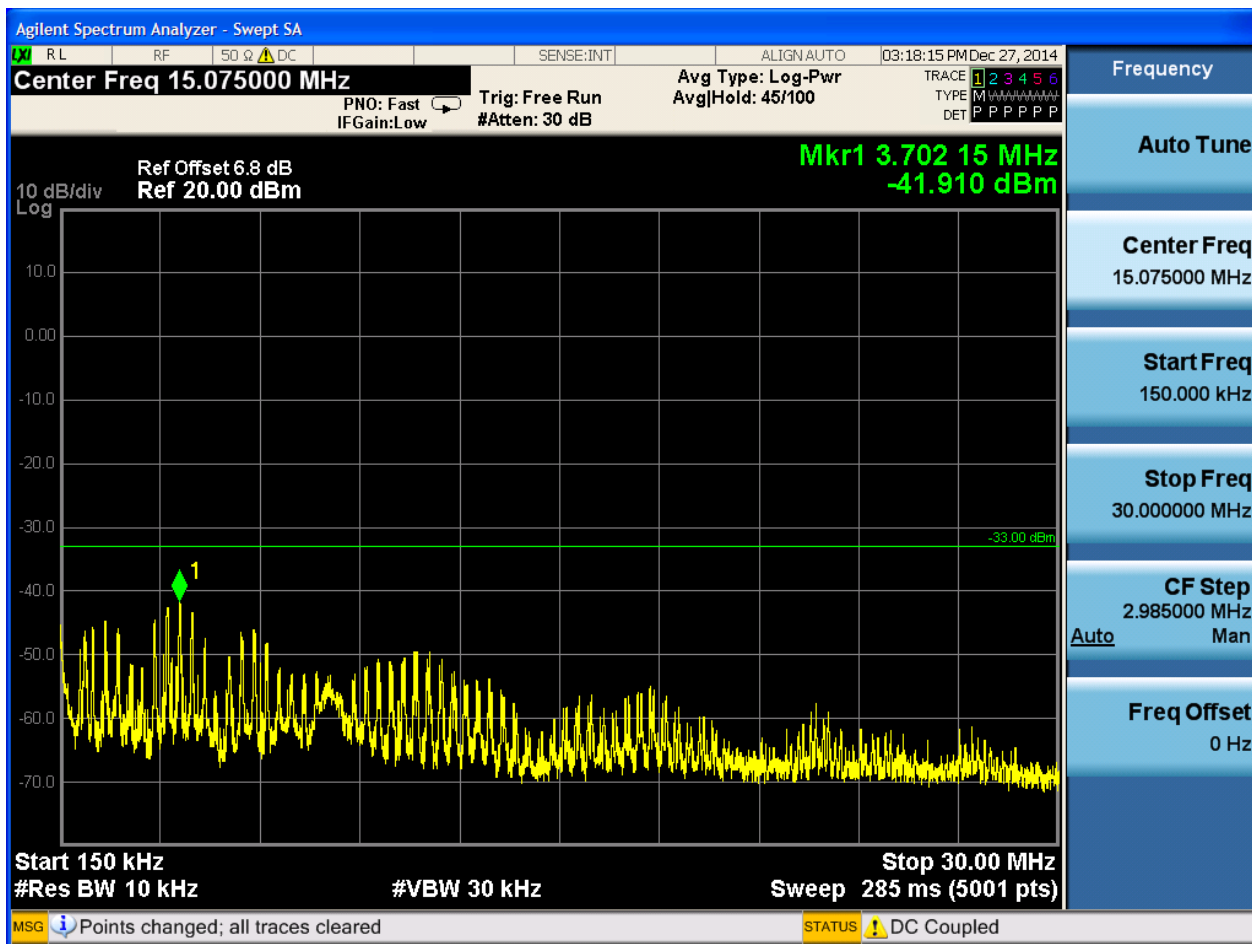


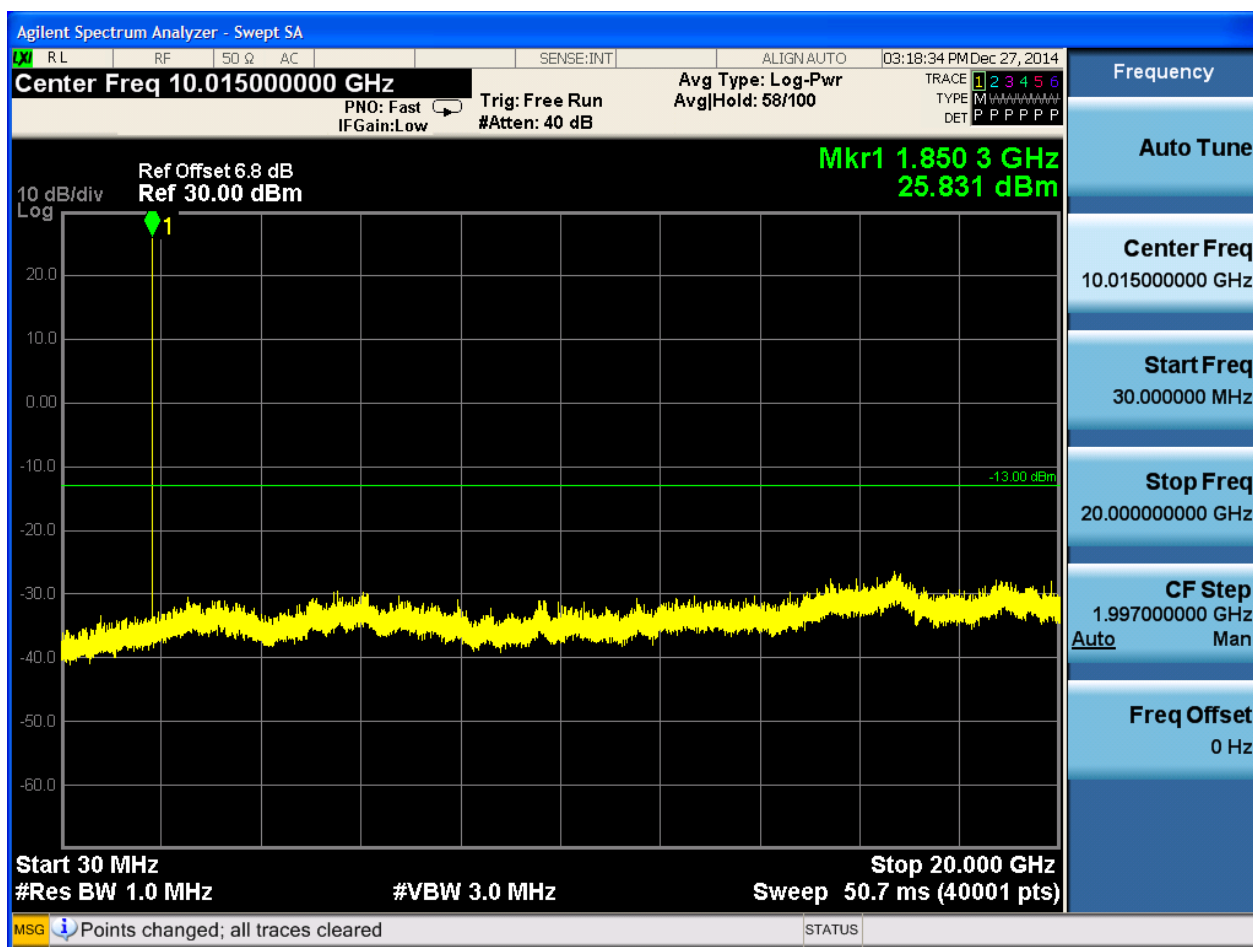


6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH

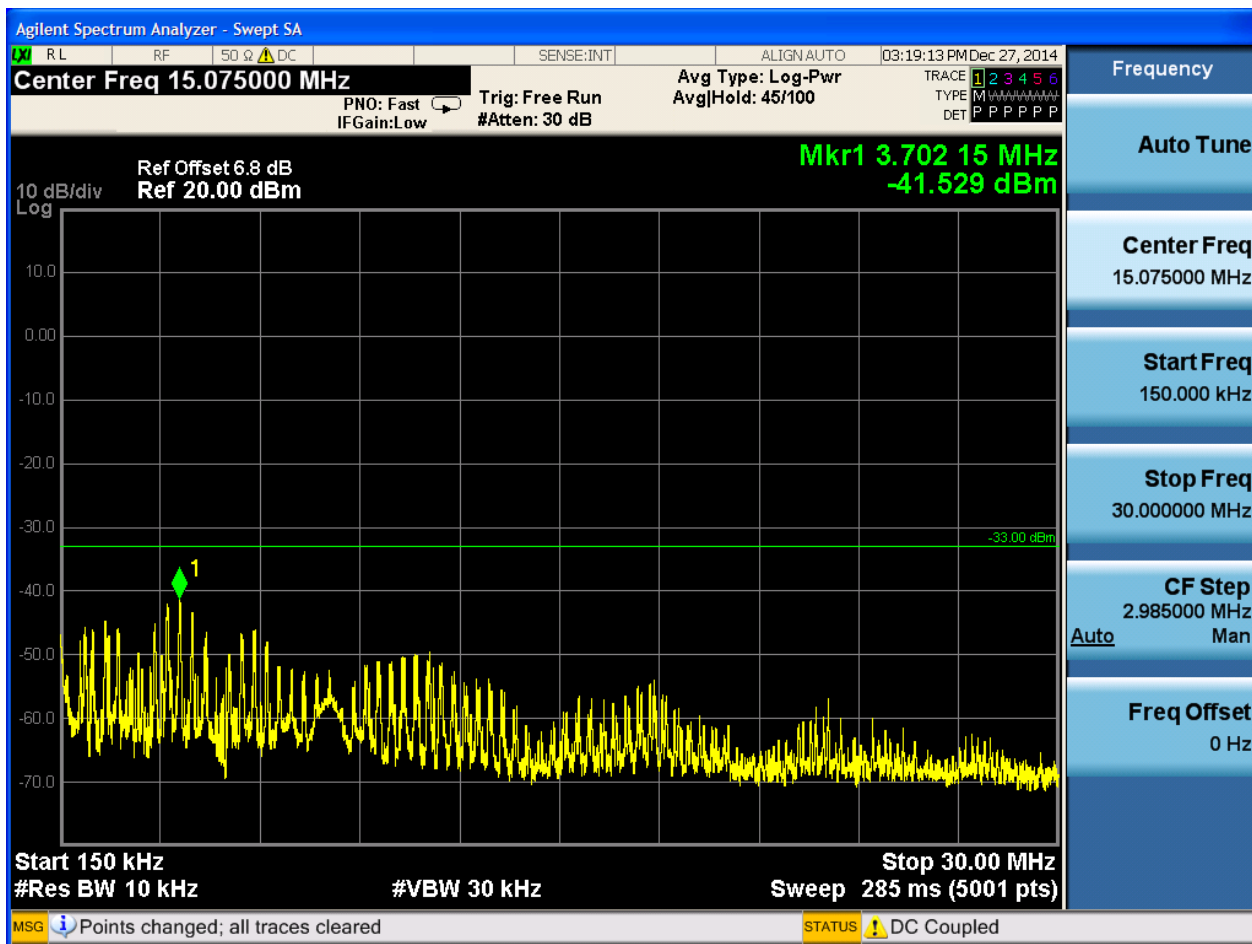


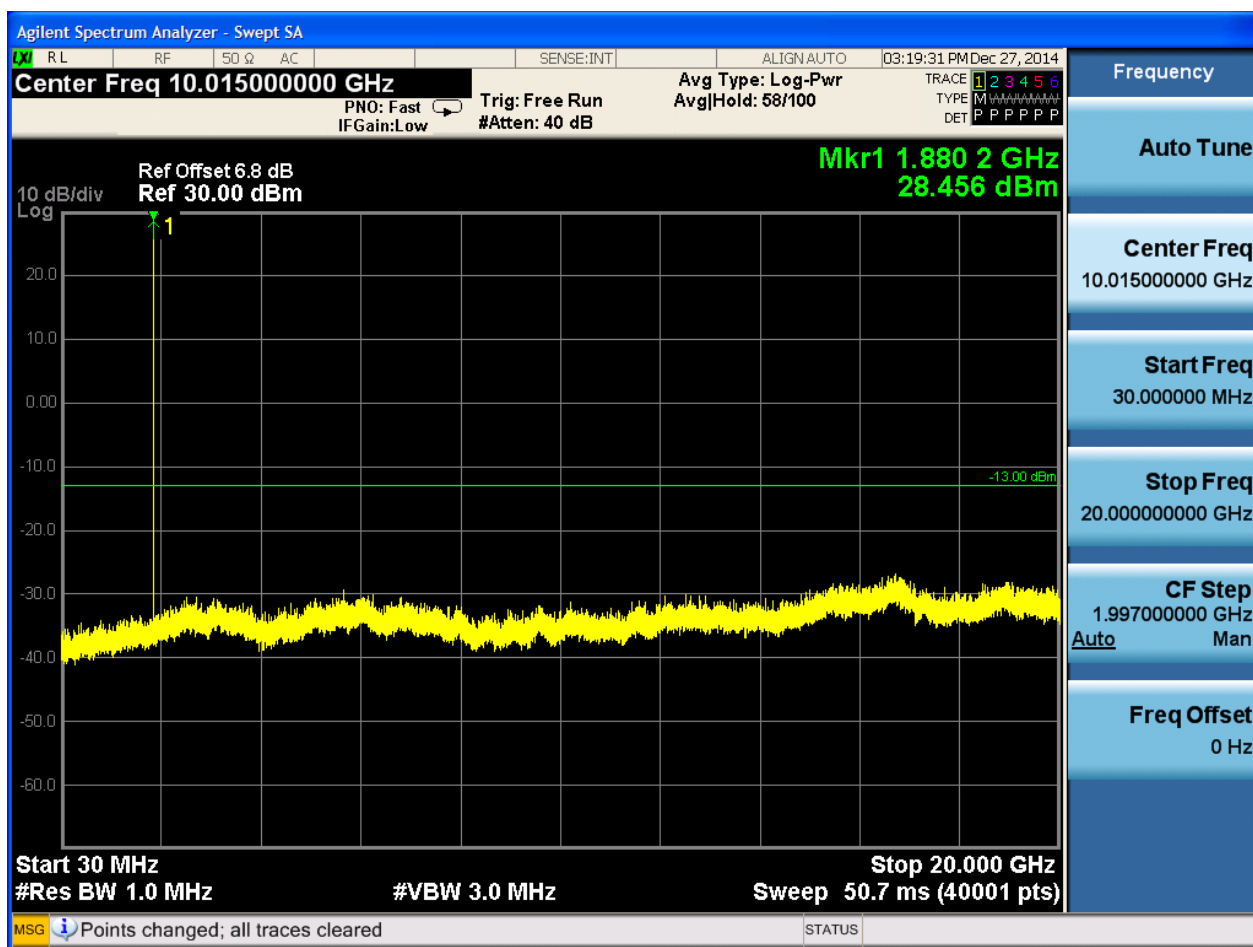




6.1.2.2.2 Test Channel = MCH



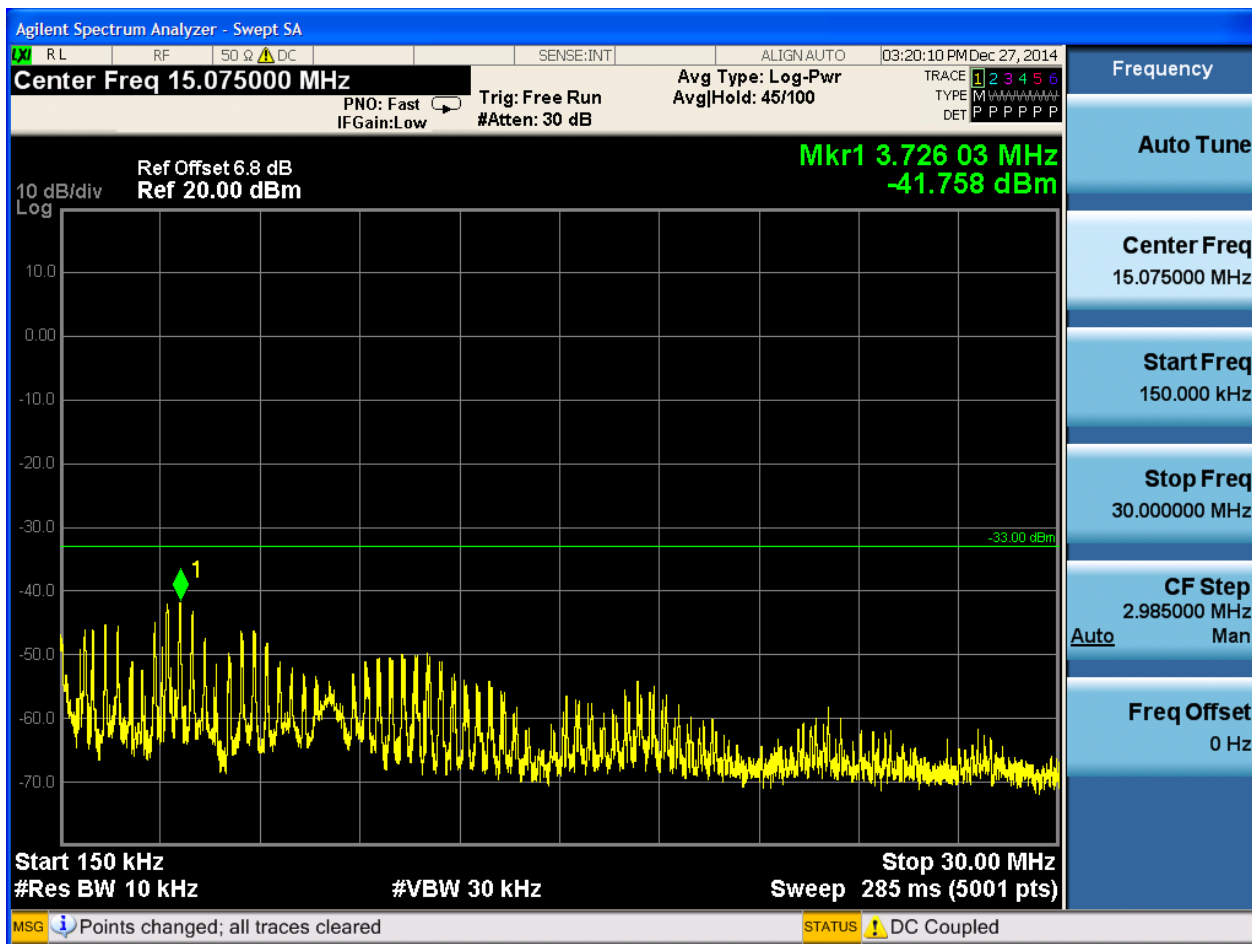


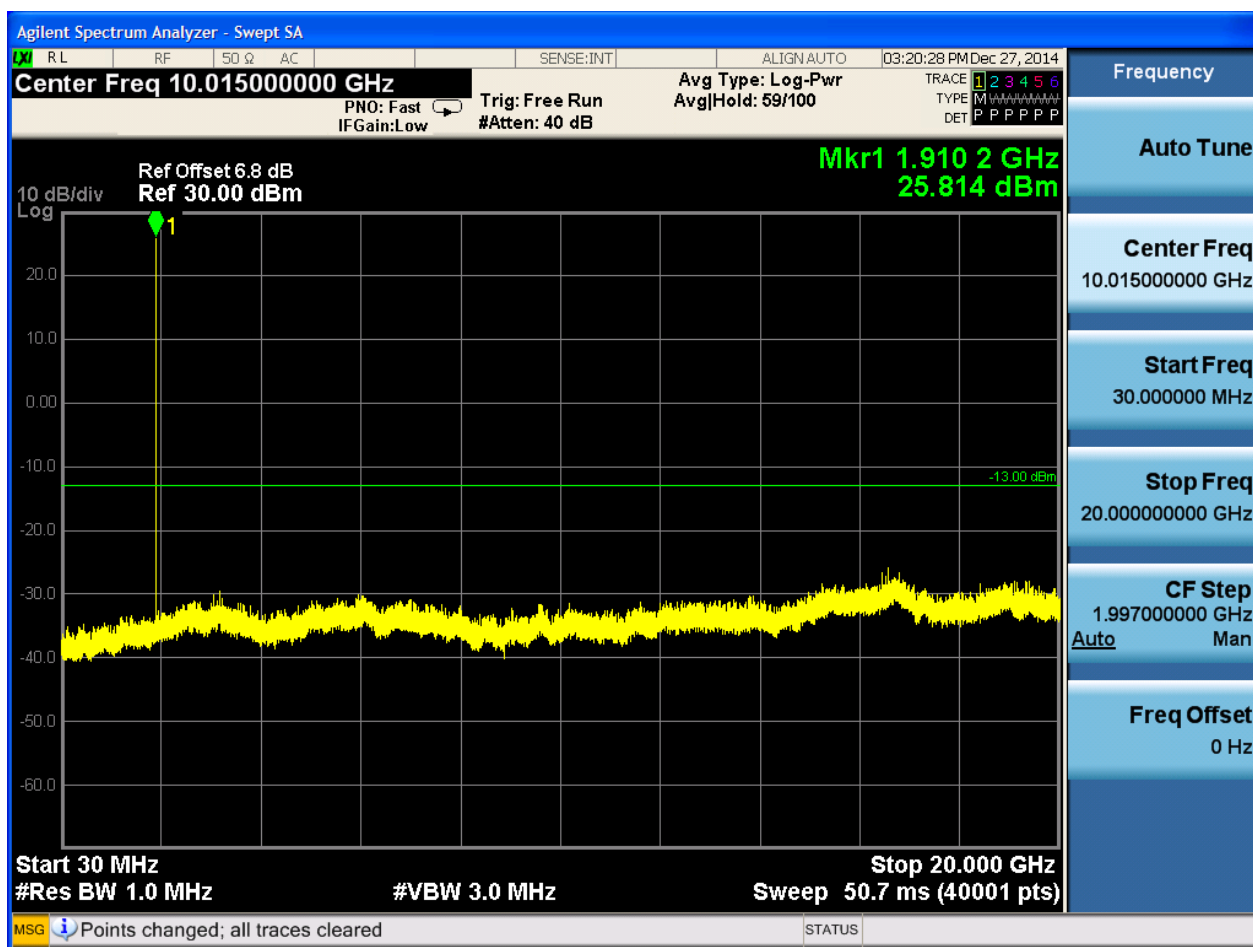




6.1.2.2.3 Test Channel = HCH





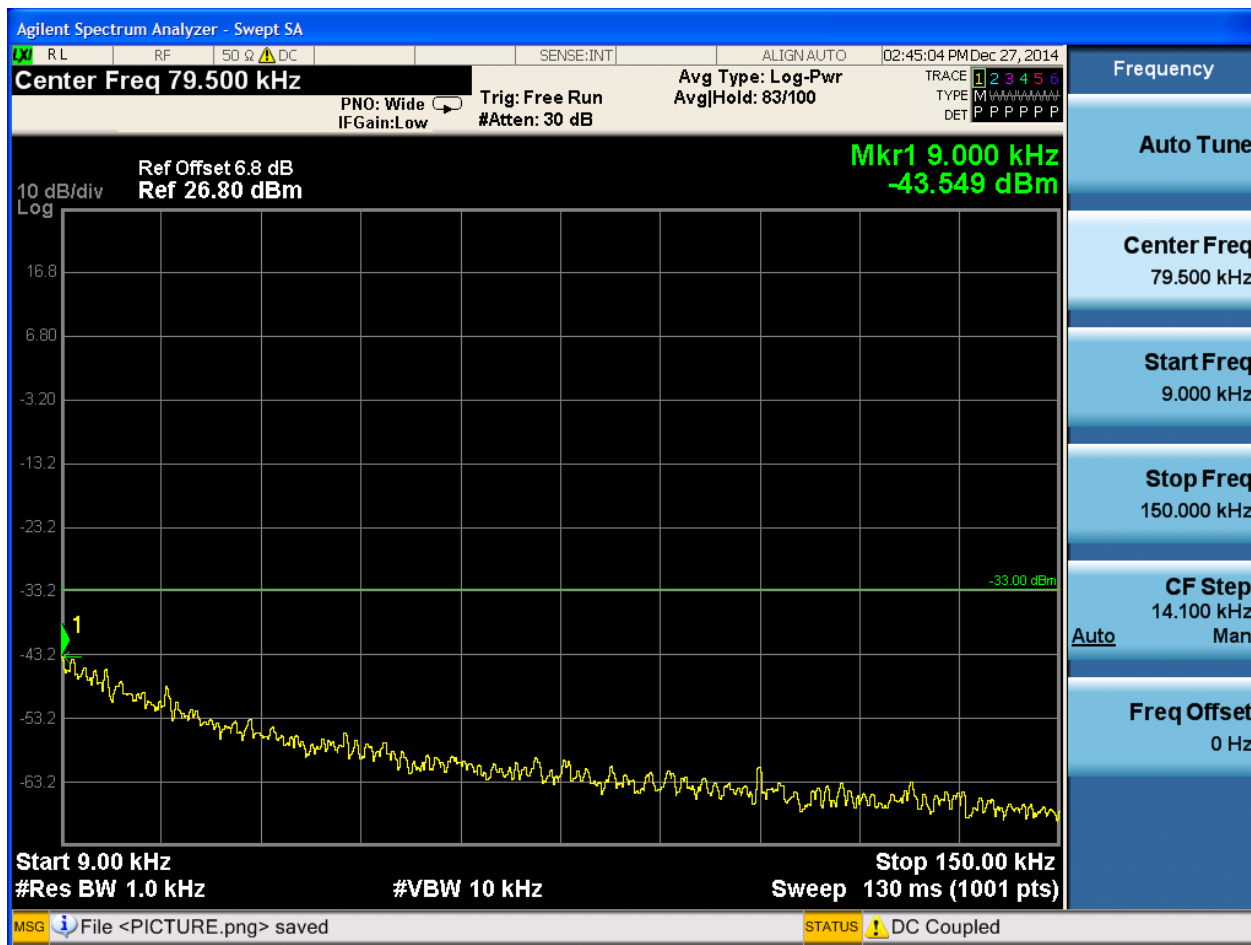


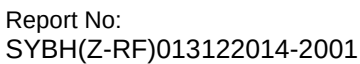
6.2 For UMTS

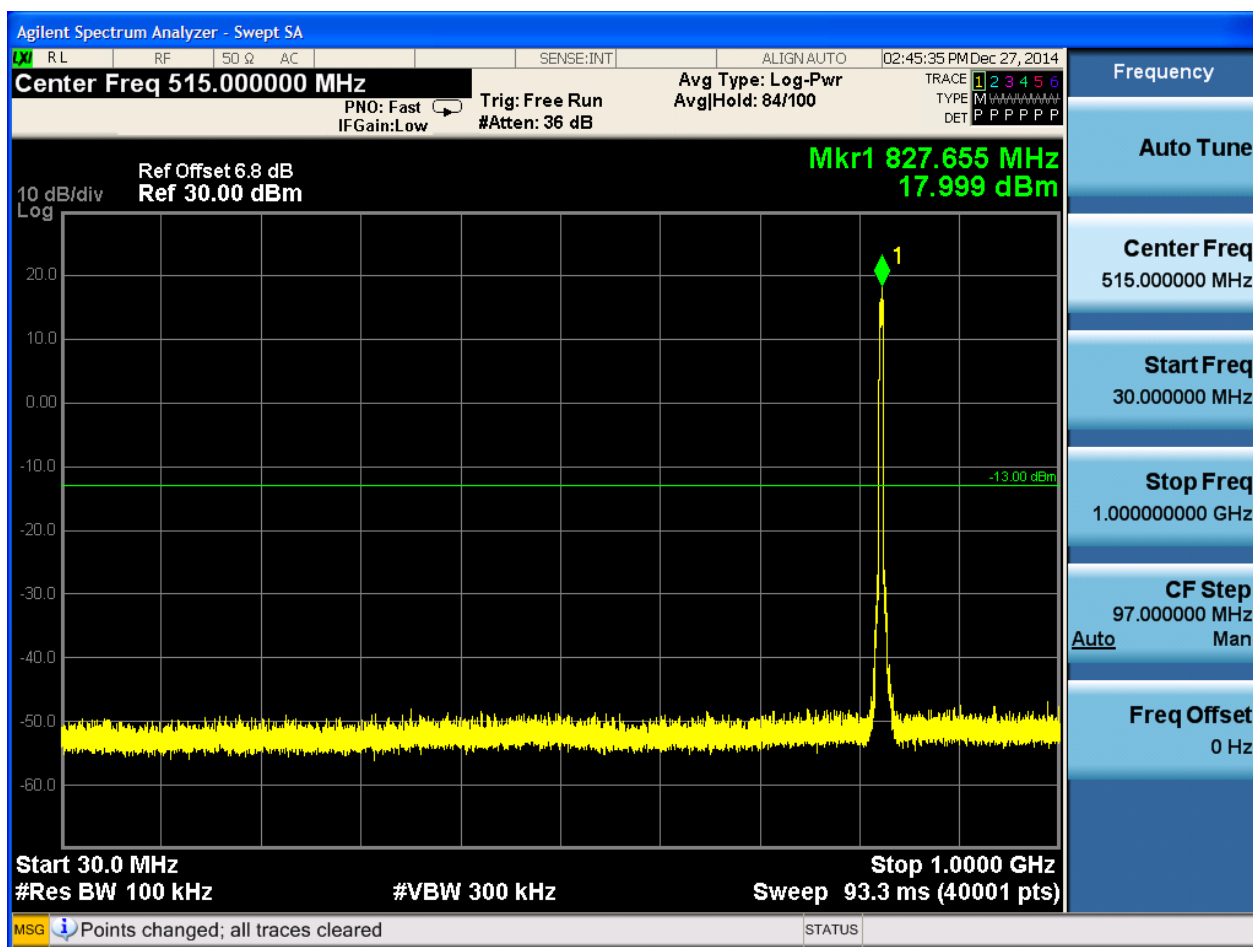
6.2.1 Test Band = WCDMA850

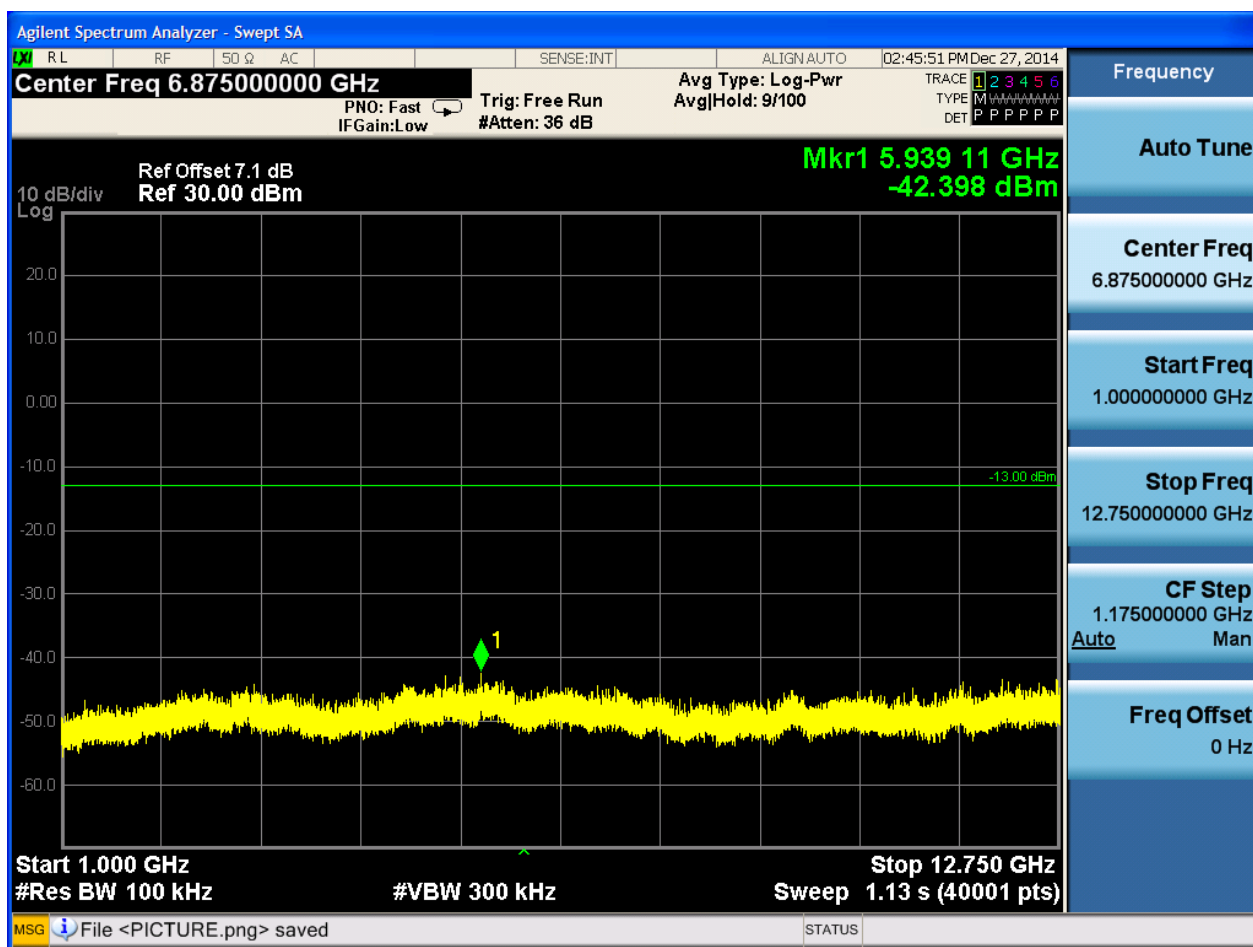
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



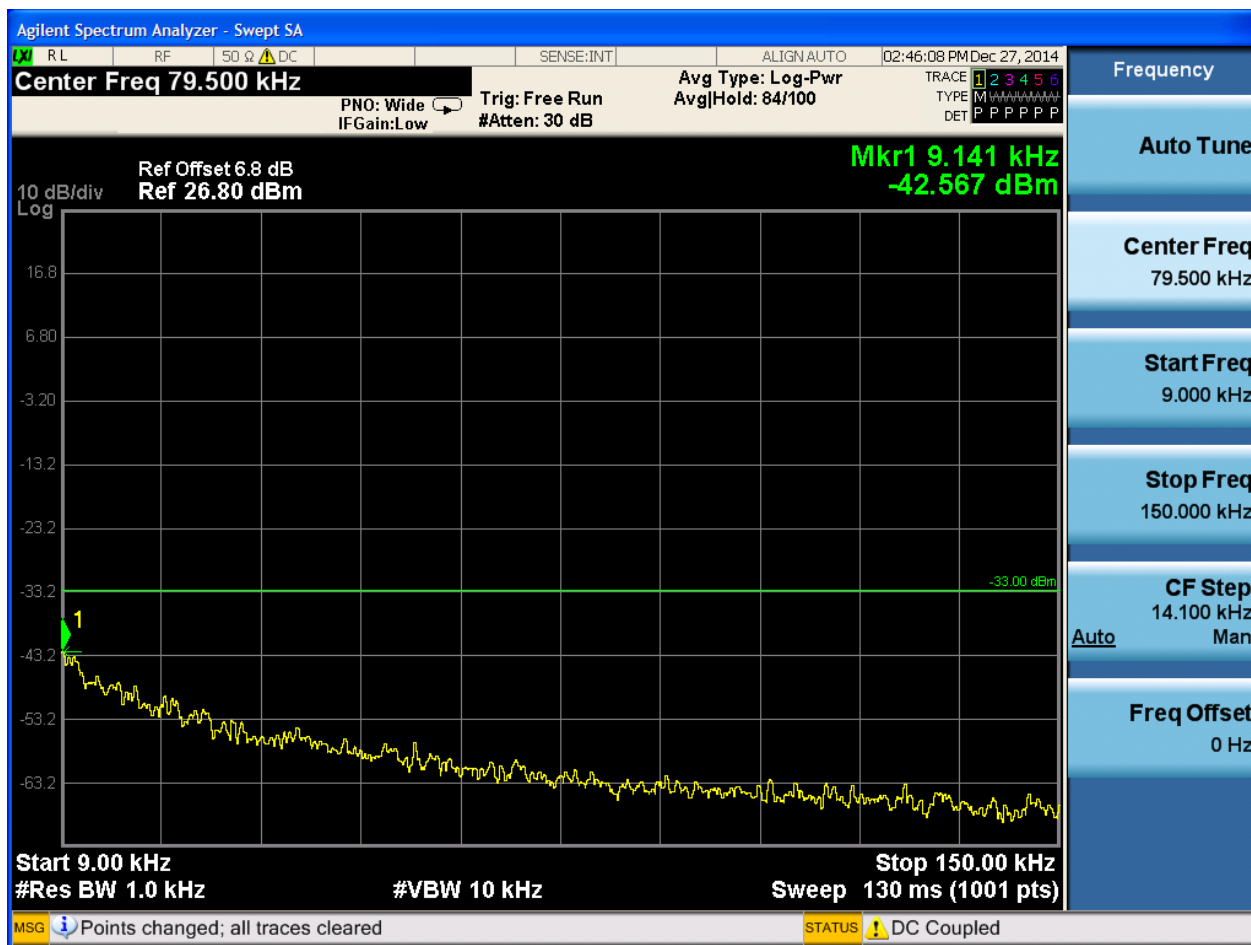


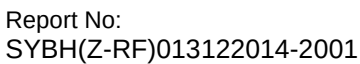


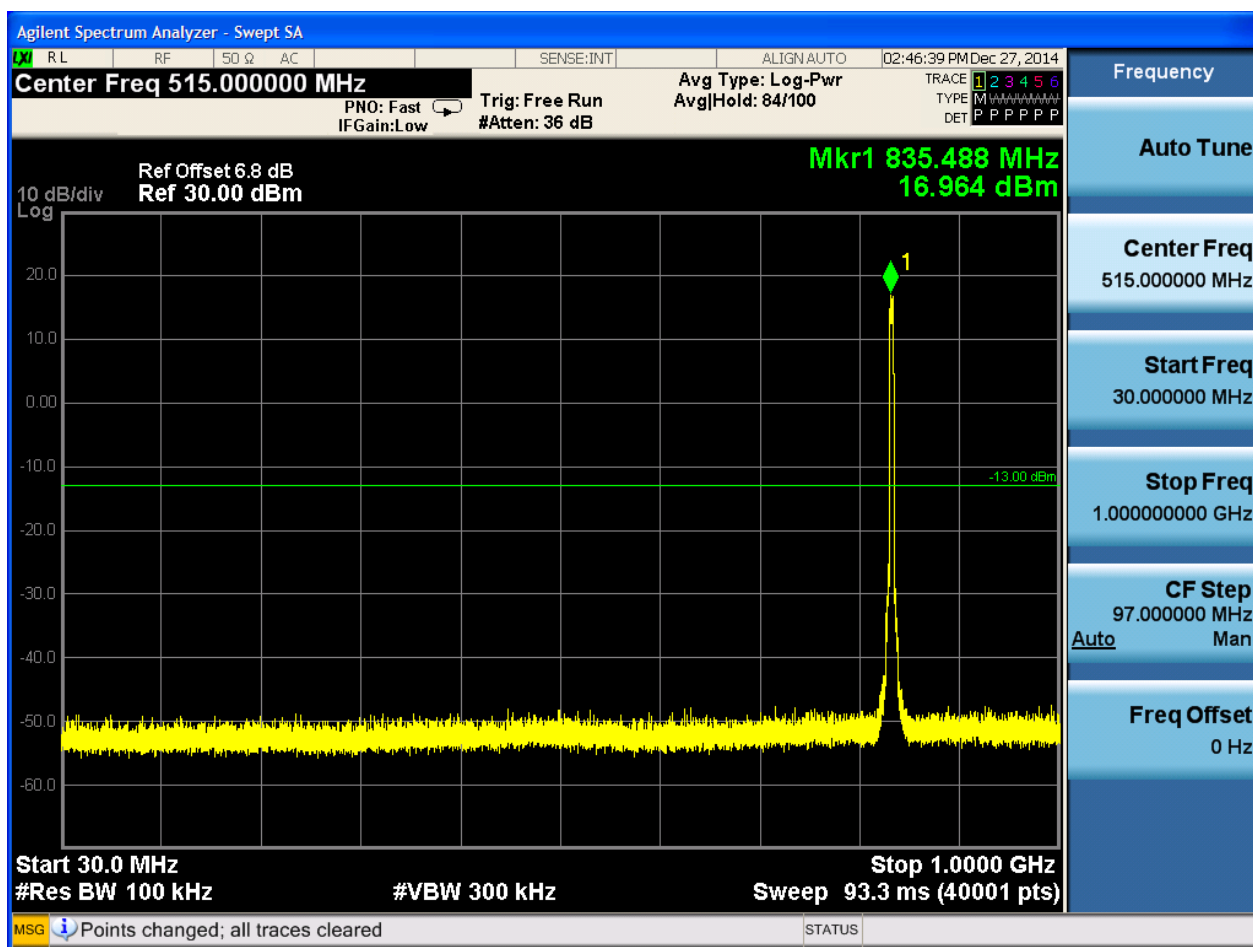


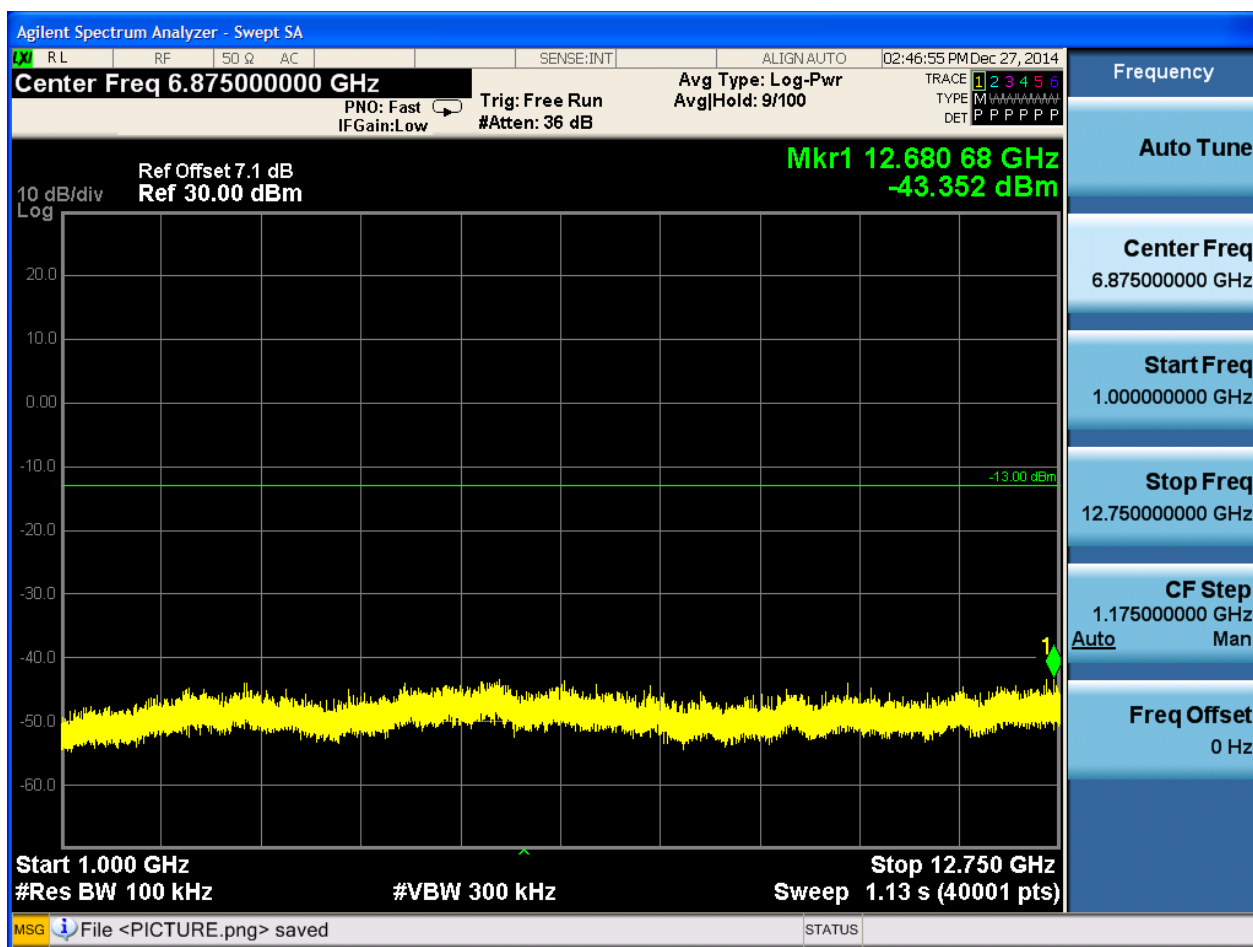


6.2.1.1.2 Test Channel = MCH



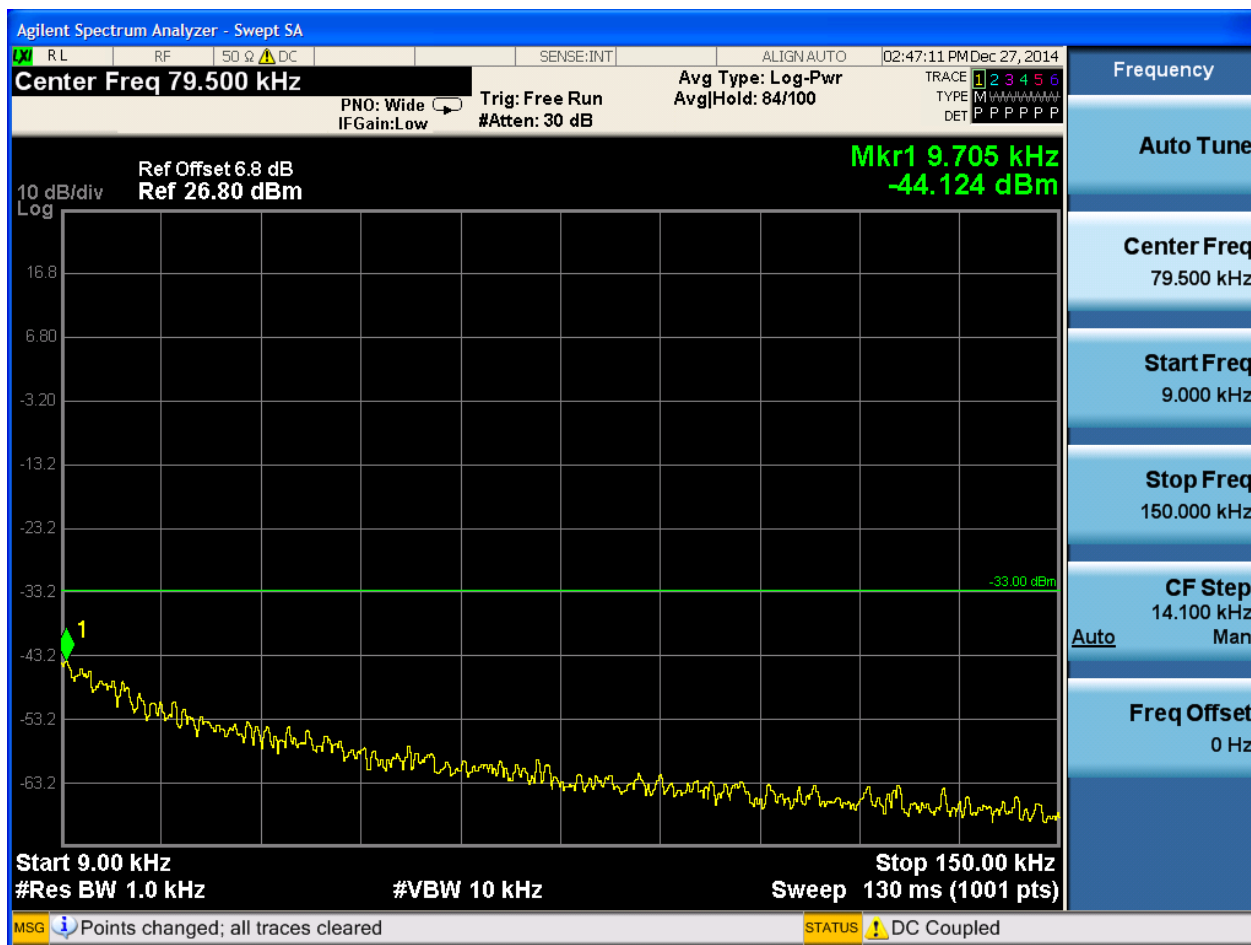


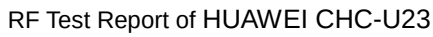
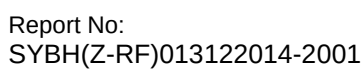


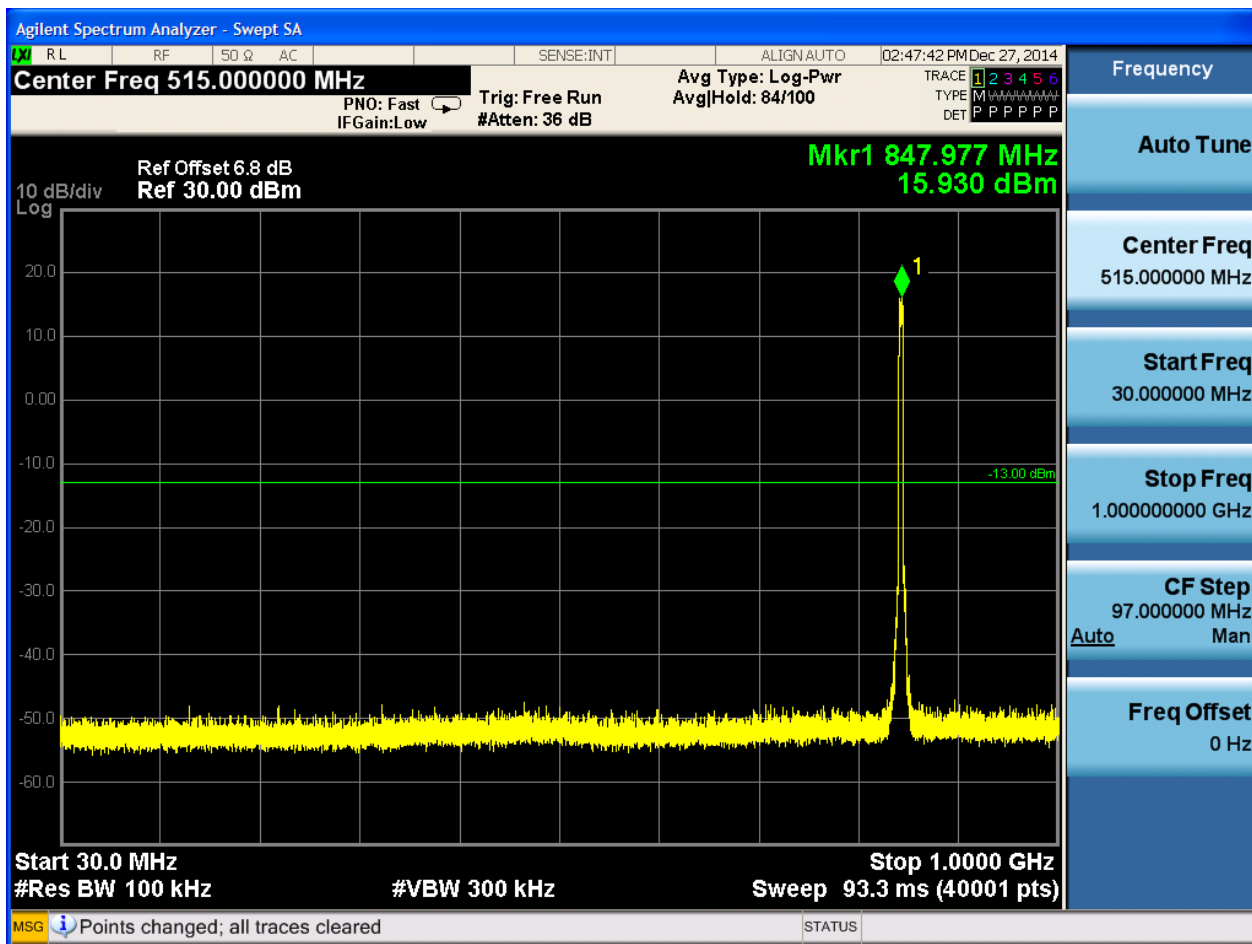


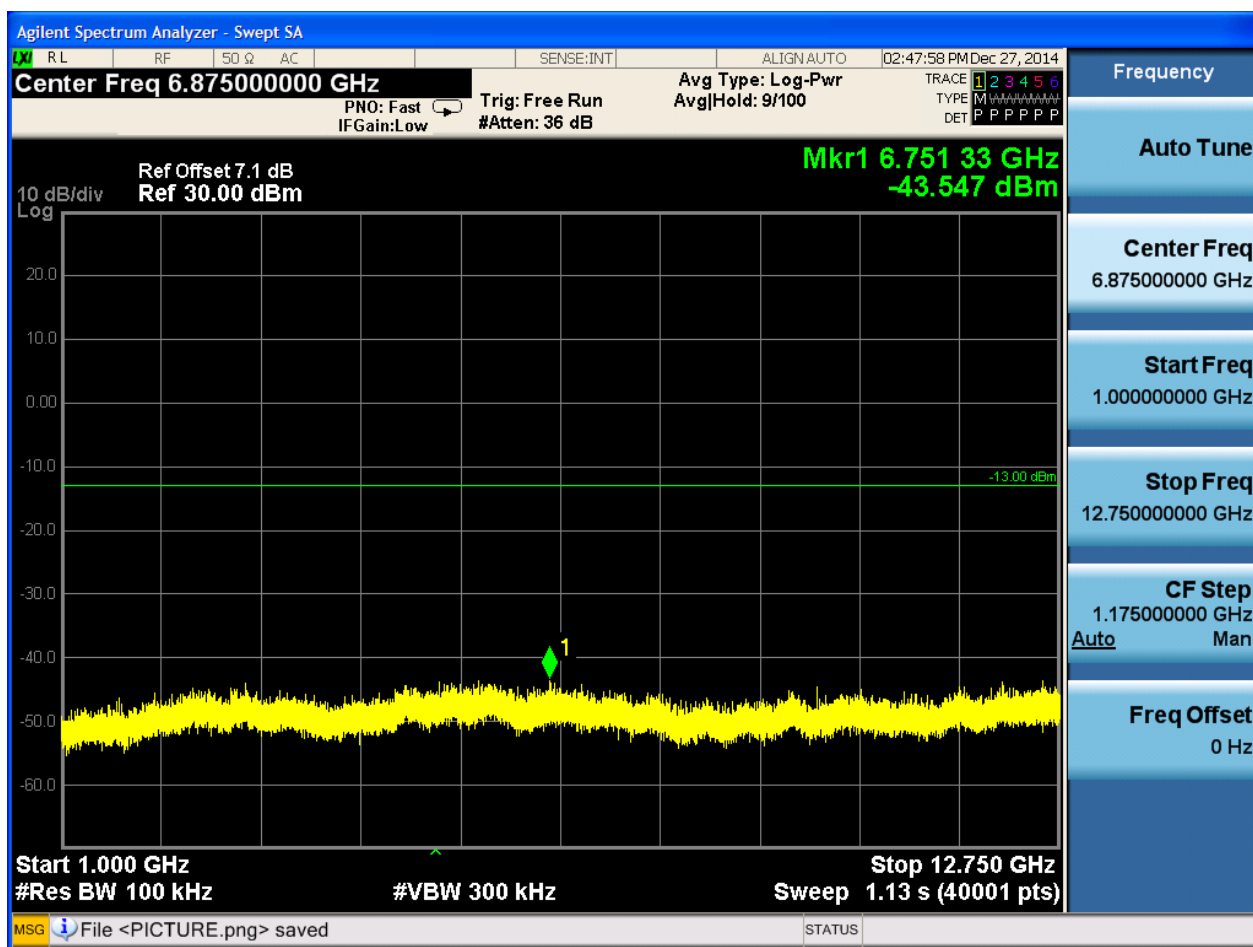


6.2.1.1.3 Test Channel = HCH









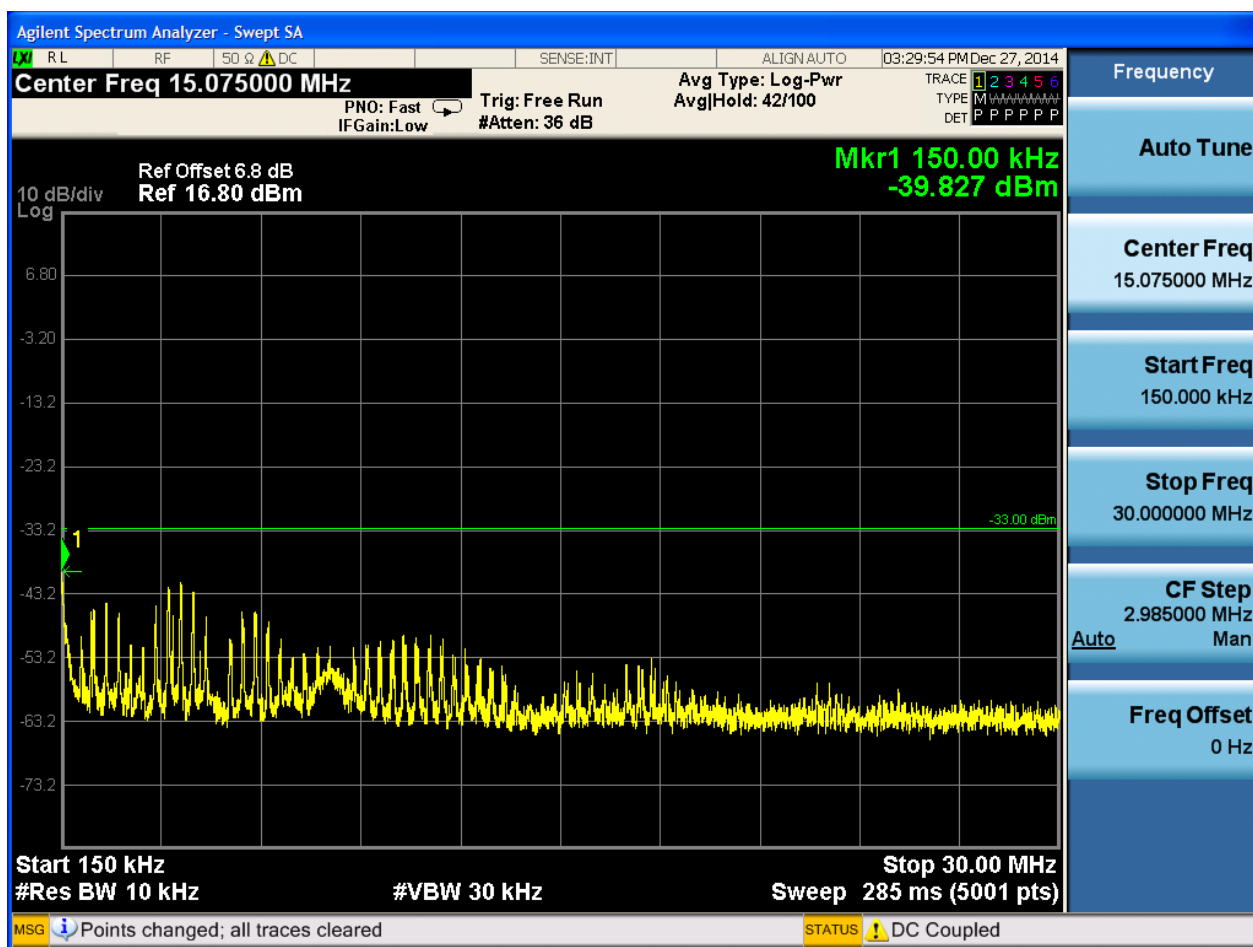


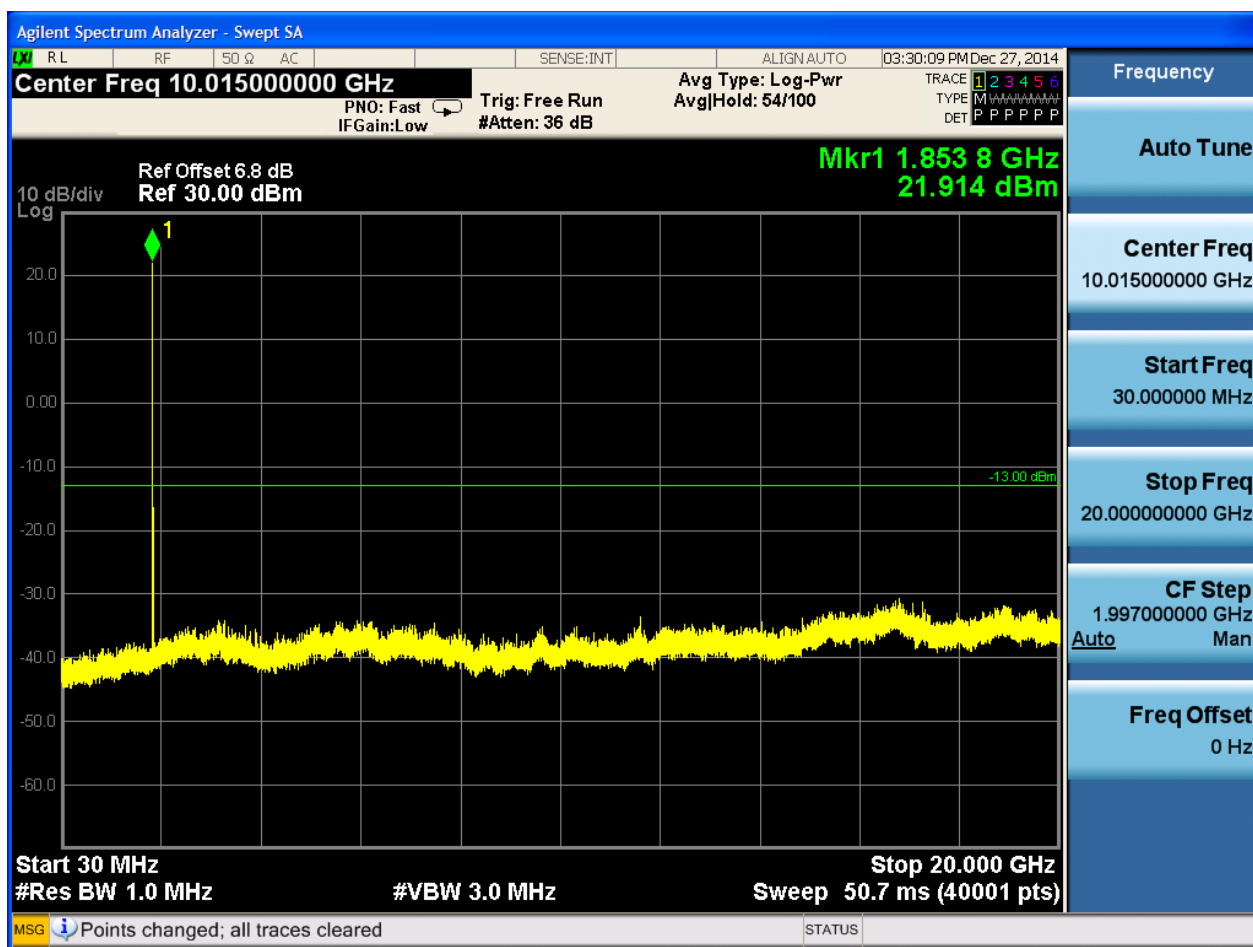
6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH









Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN:AUTO 03:30:26 PM Dec 27, 2014

Center Freq 79.500 kHz Avg Type: Log-Pwr Avg|Hold: 84/100

PNO: Wide IFGain:Low Trig: Free Run #Atten: 20 dB

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

Ref Offset 6.8 dB
Ref 16.80 dBm

Mkr1 33.252 kHz
-49.120 dBm

10 dB/div
Log

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

MSG Points changed; all traces cleared

STATUS DC Coupled

Frequency

Auto Tune

Center Freq
79.500 kHz

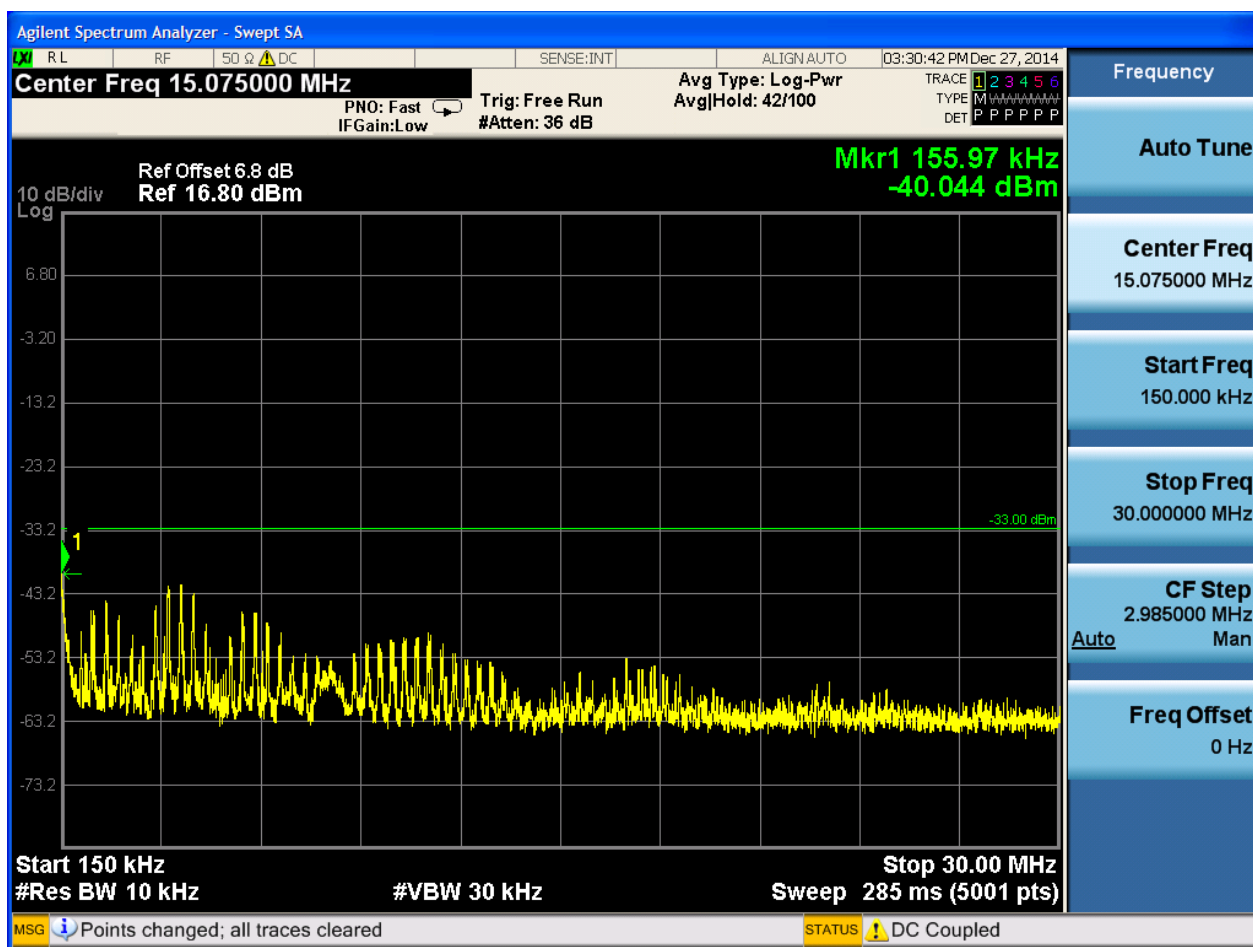
Start Freq
9.000 kHz

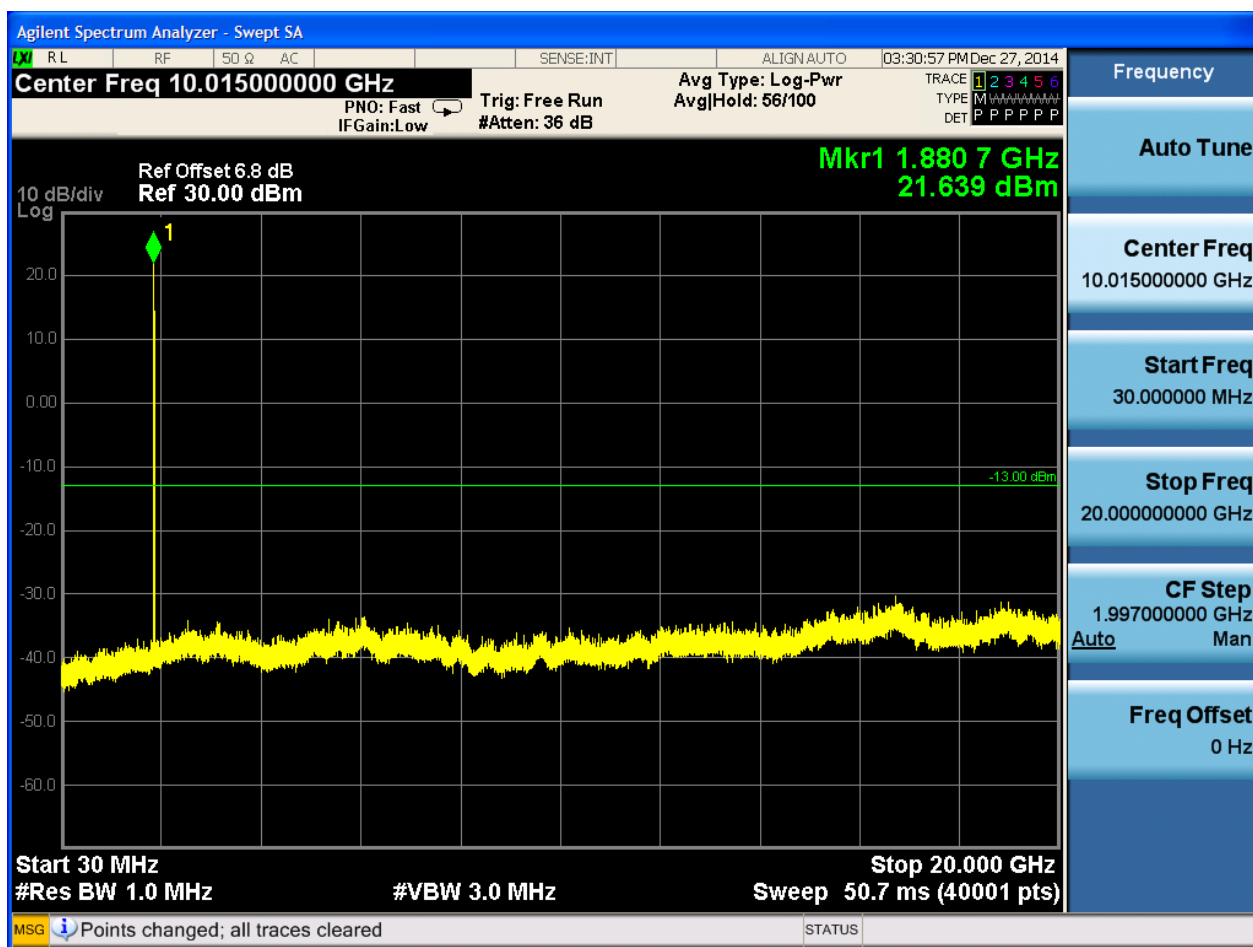
Stop Freq
150.000 kHz

CF Step
14.100 kHz
Man

Auto

Freq Offset
0 Hz

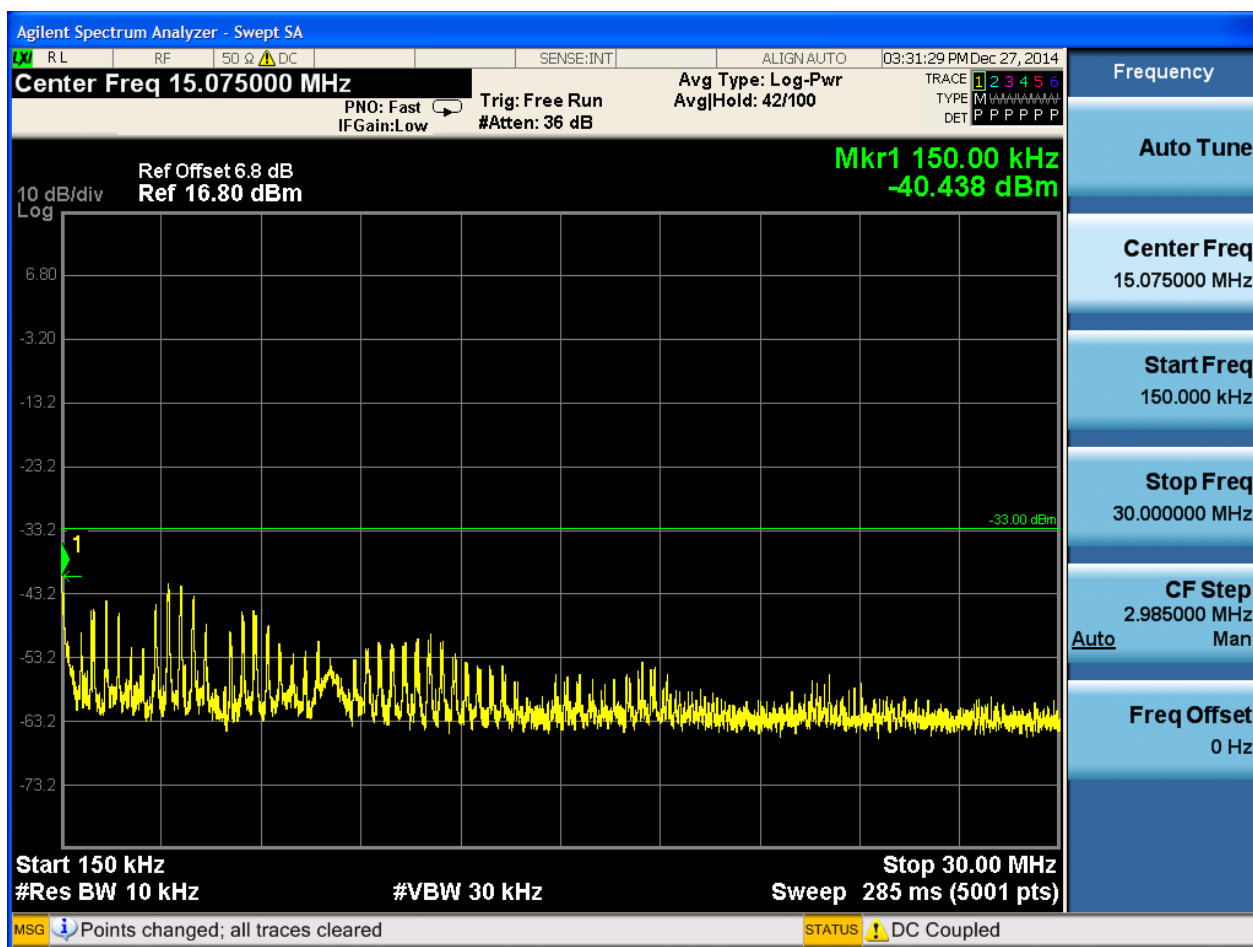


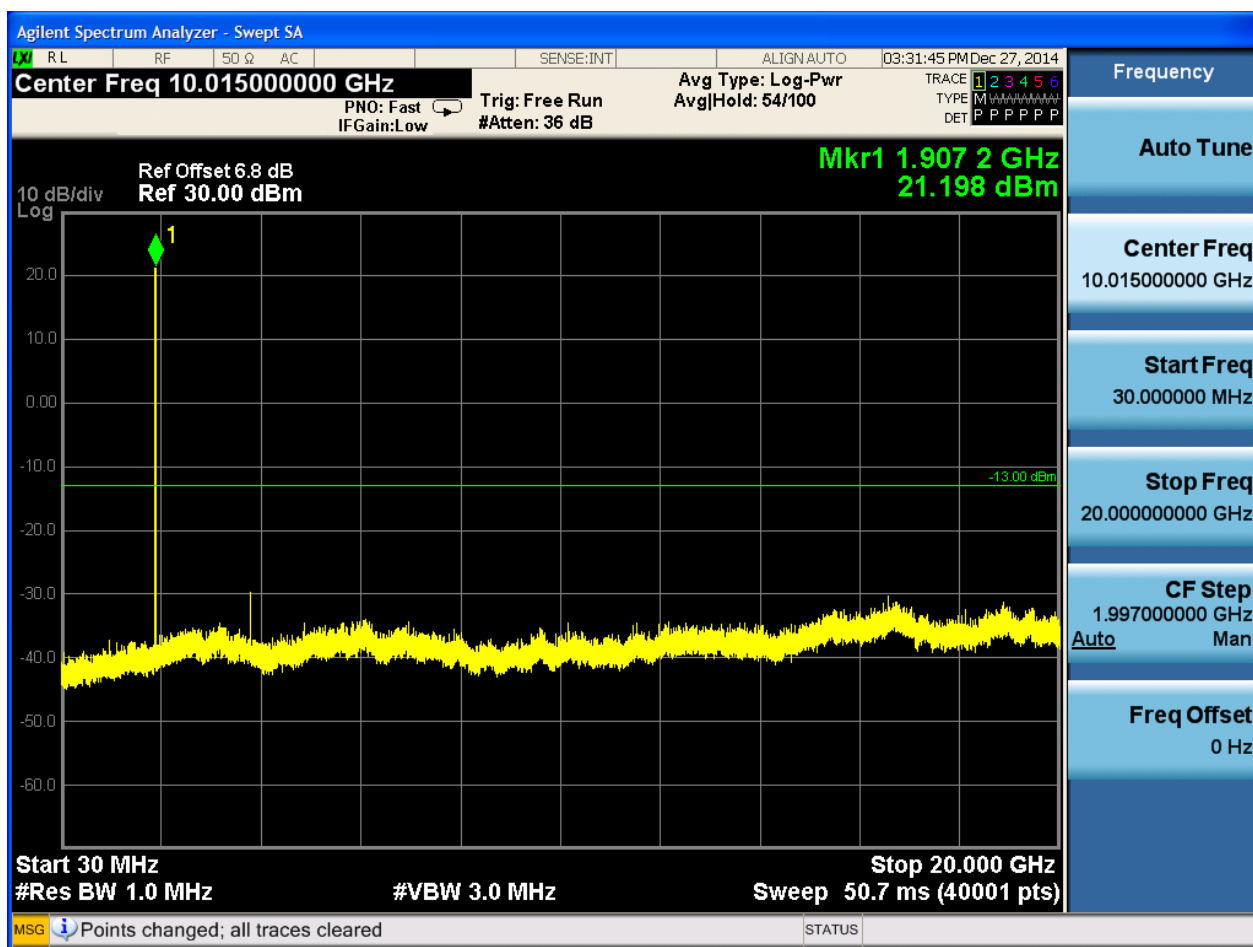




6.2.2.1.3 Test Channel = HCH





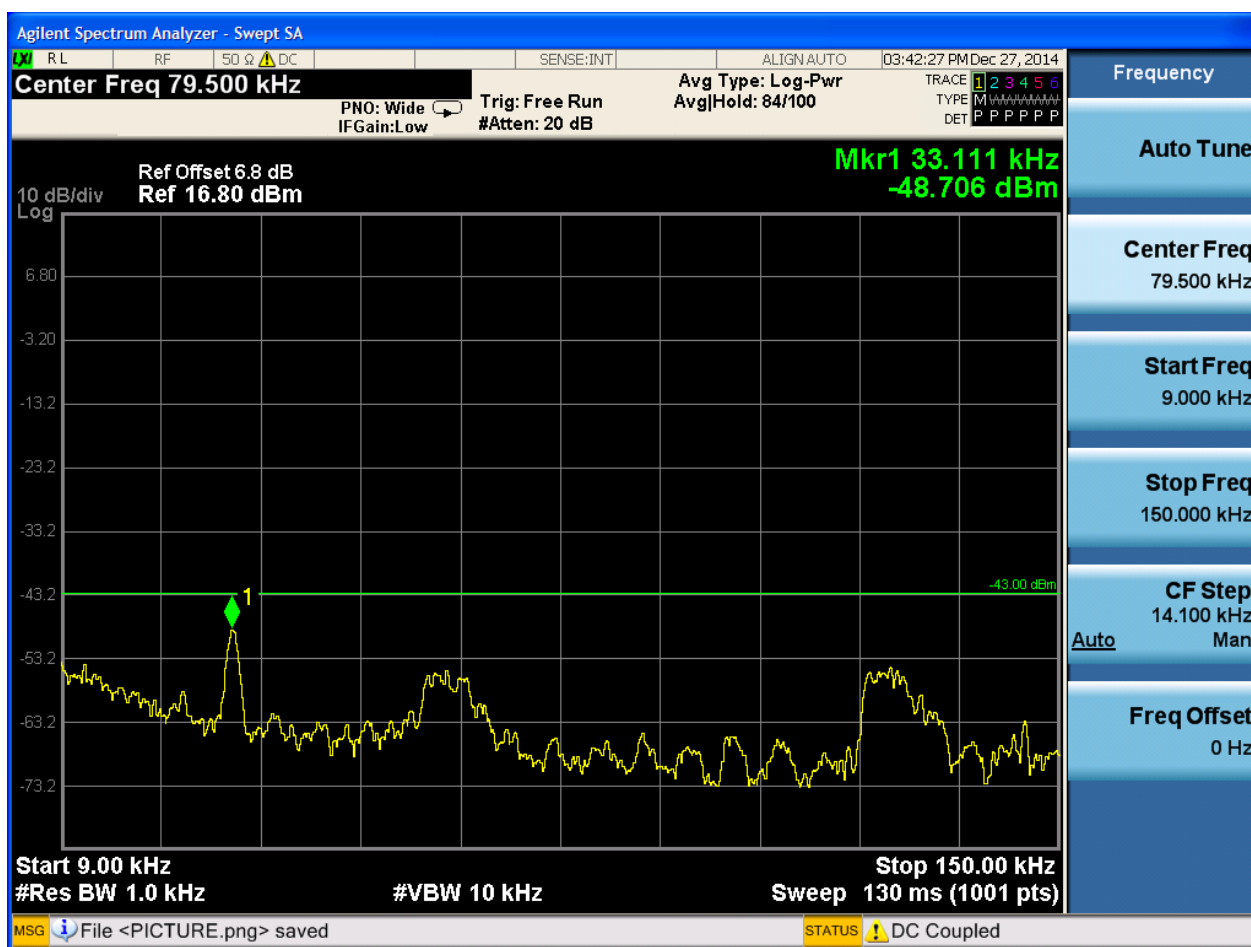


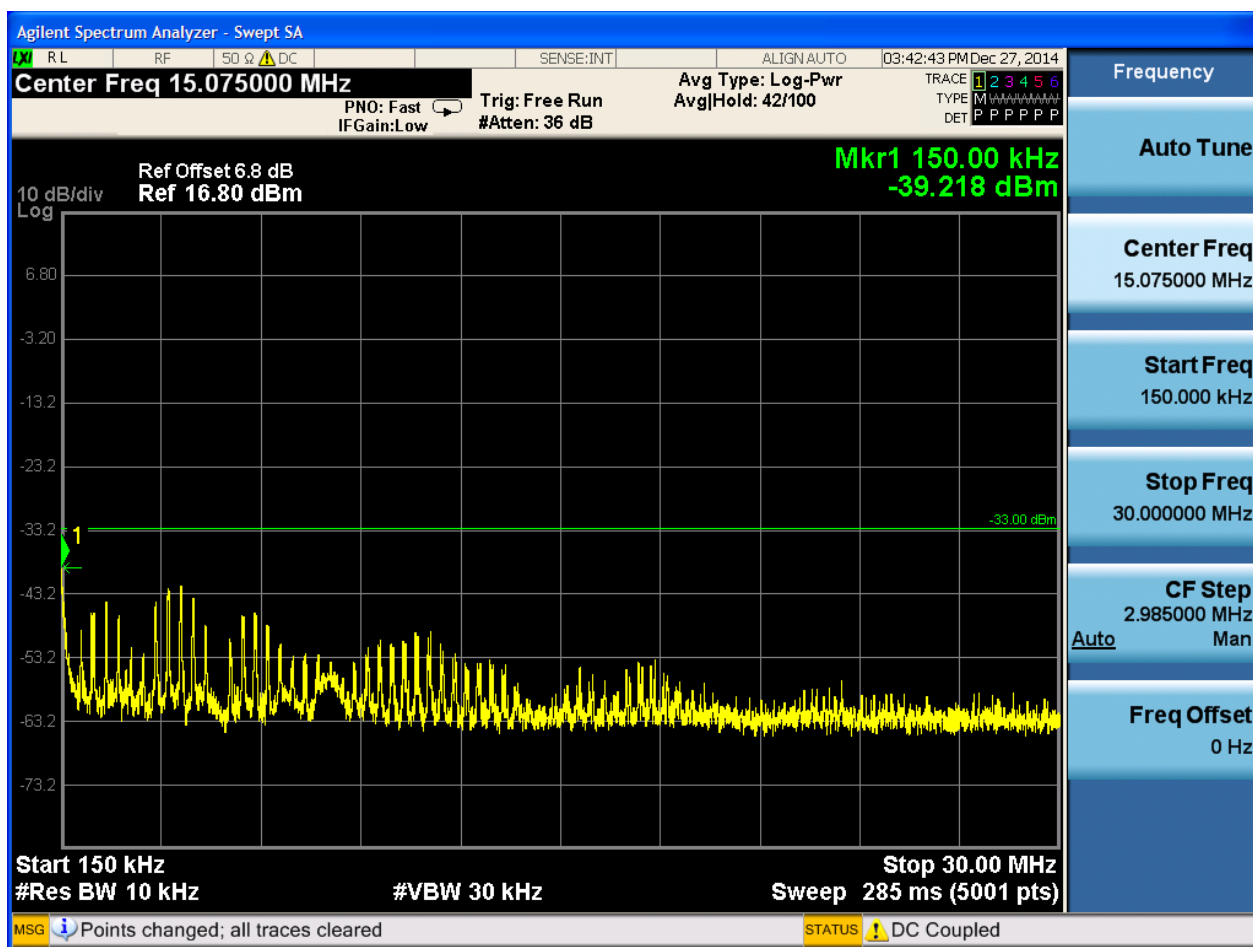


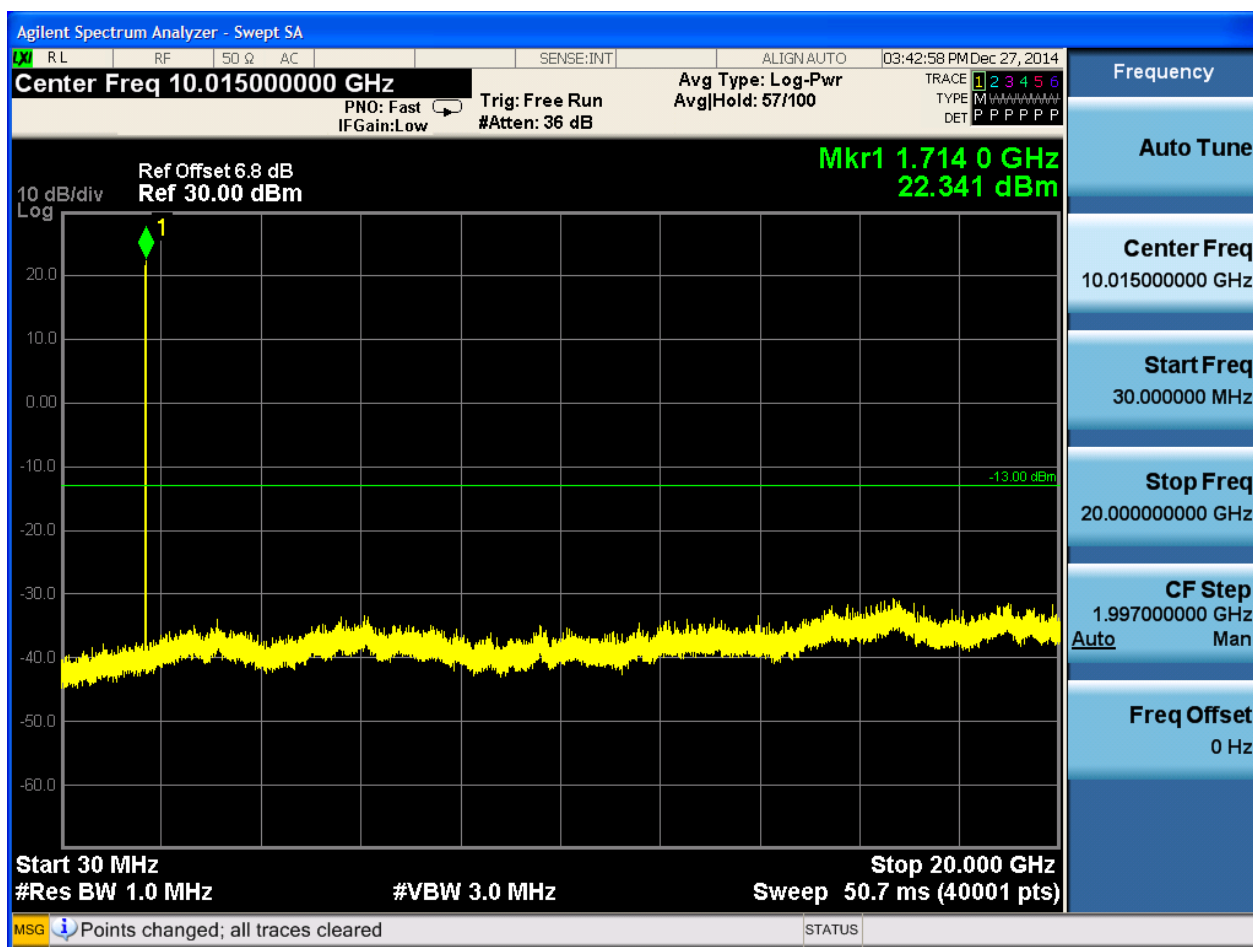
6.2.3 Test Band = WCDMA1700

6.2.3.1 Test Mode = UMTS/TM1

6.2.3.1.1 Test Channel = LCH



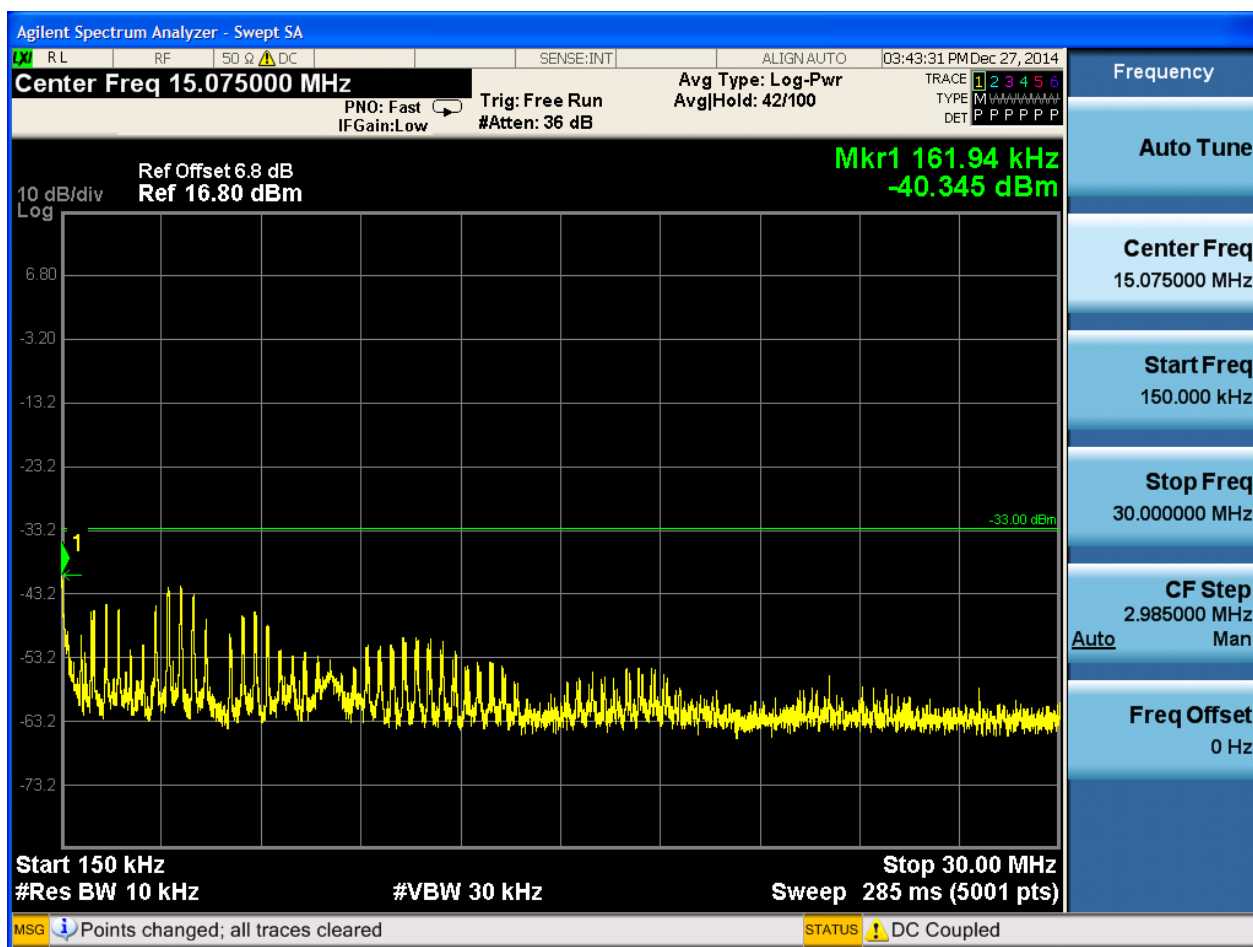


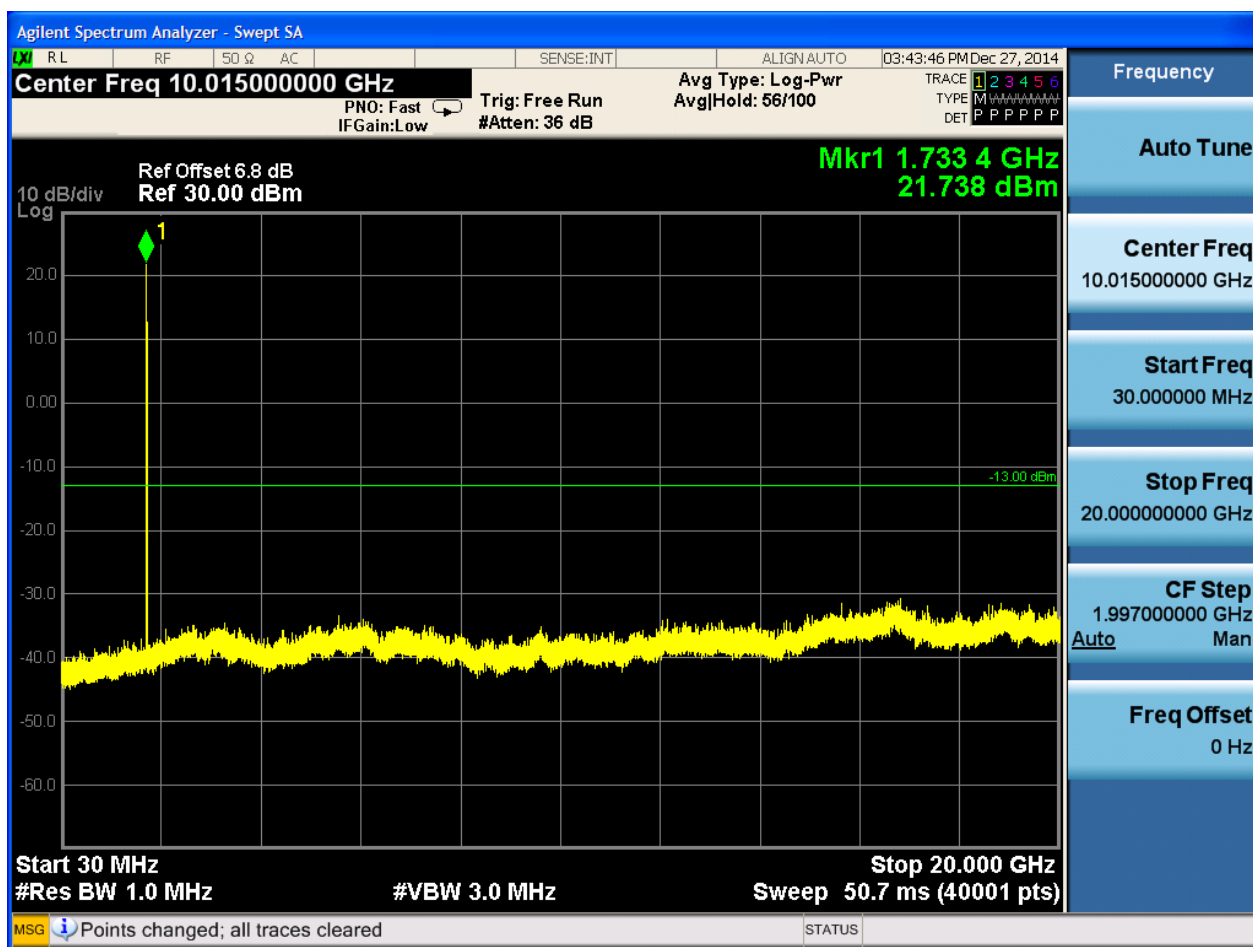




6.2.3.1.2 Test Channel = MCH

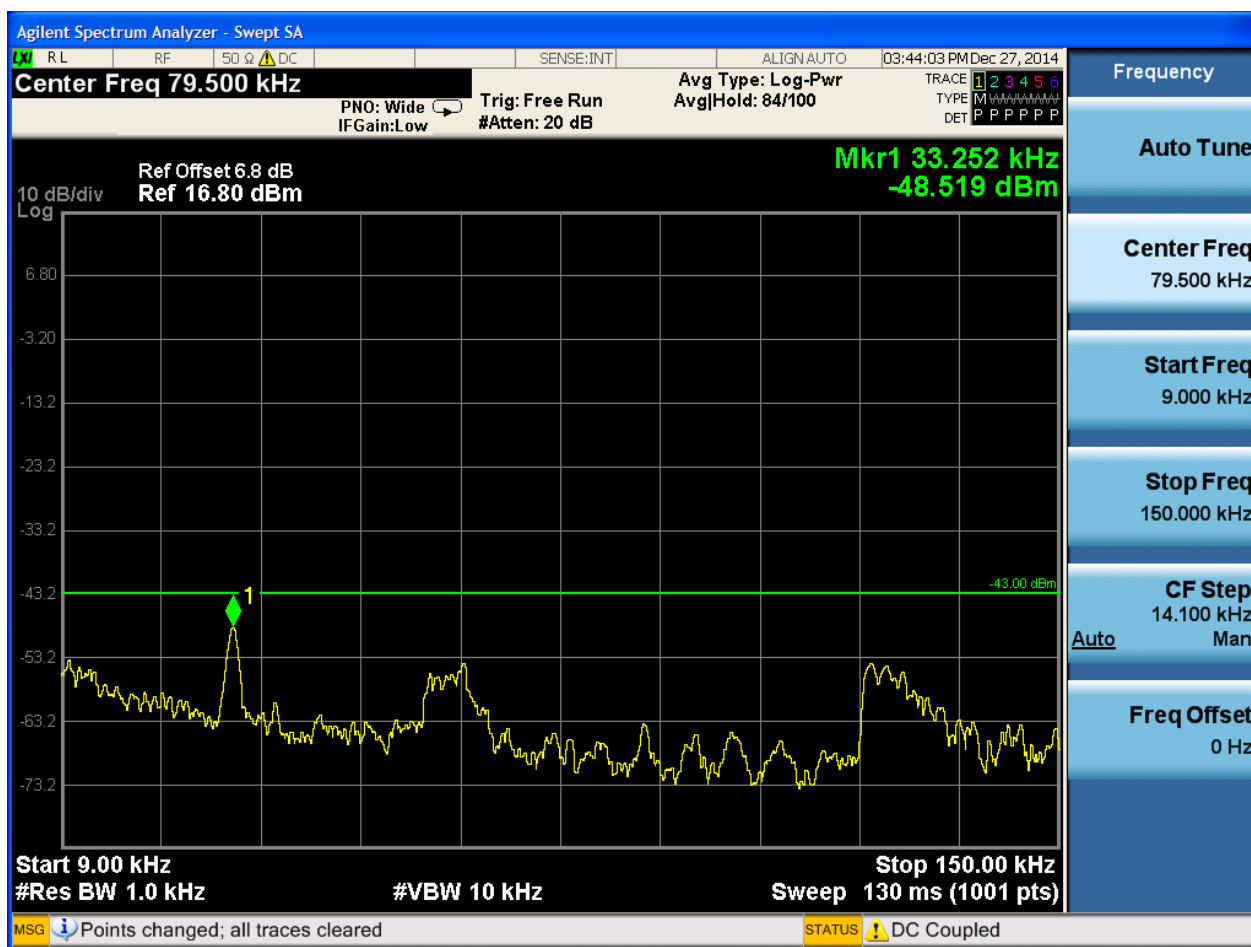


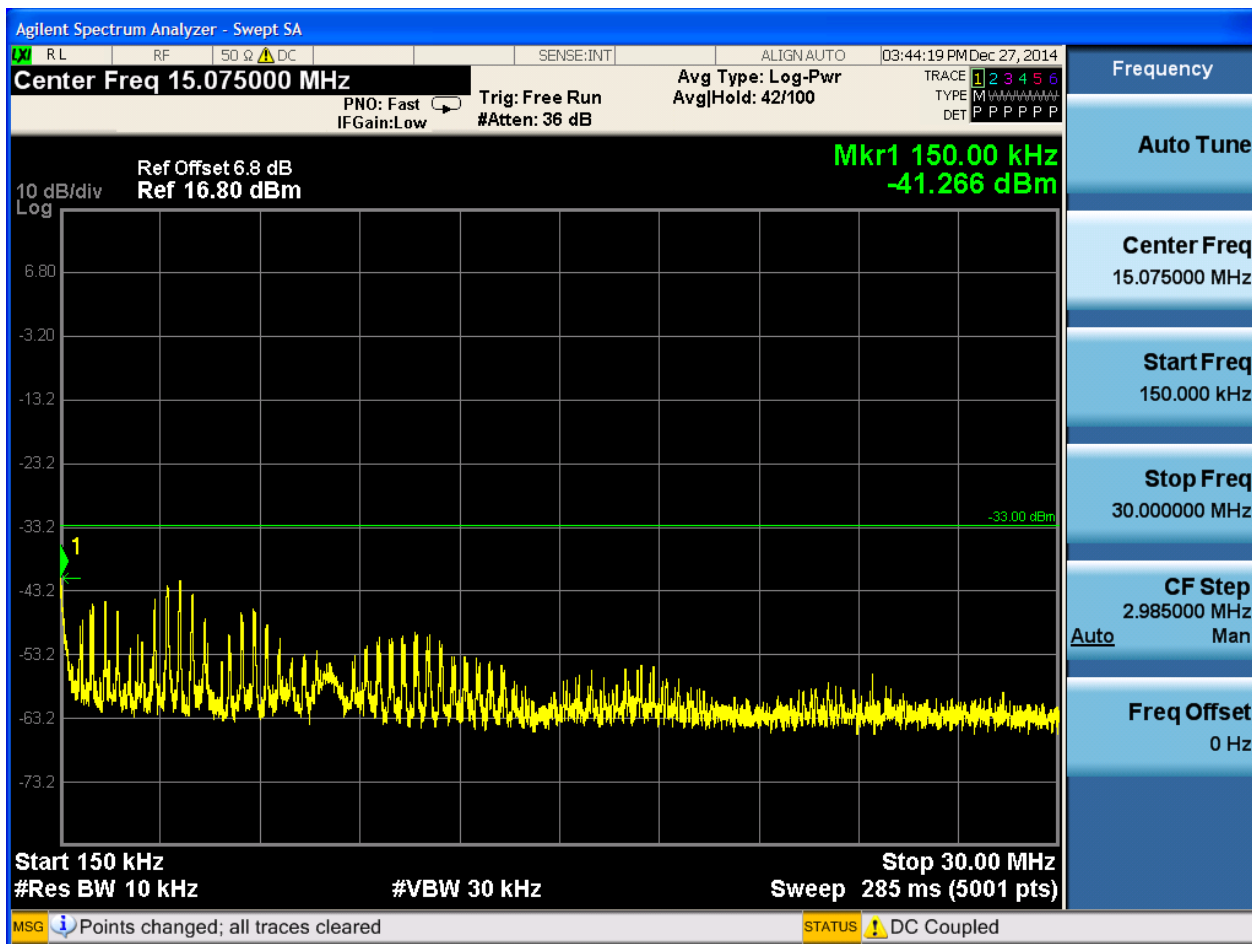


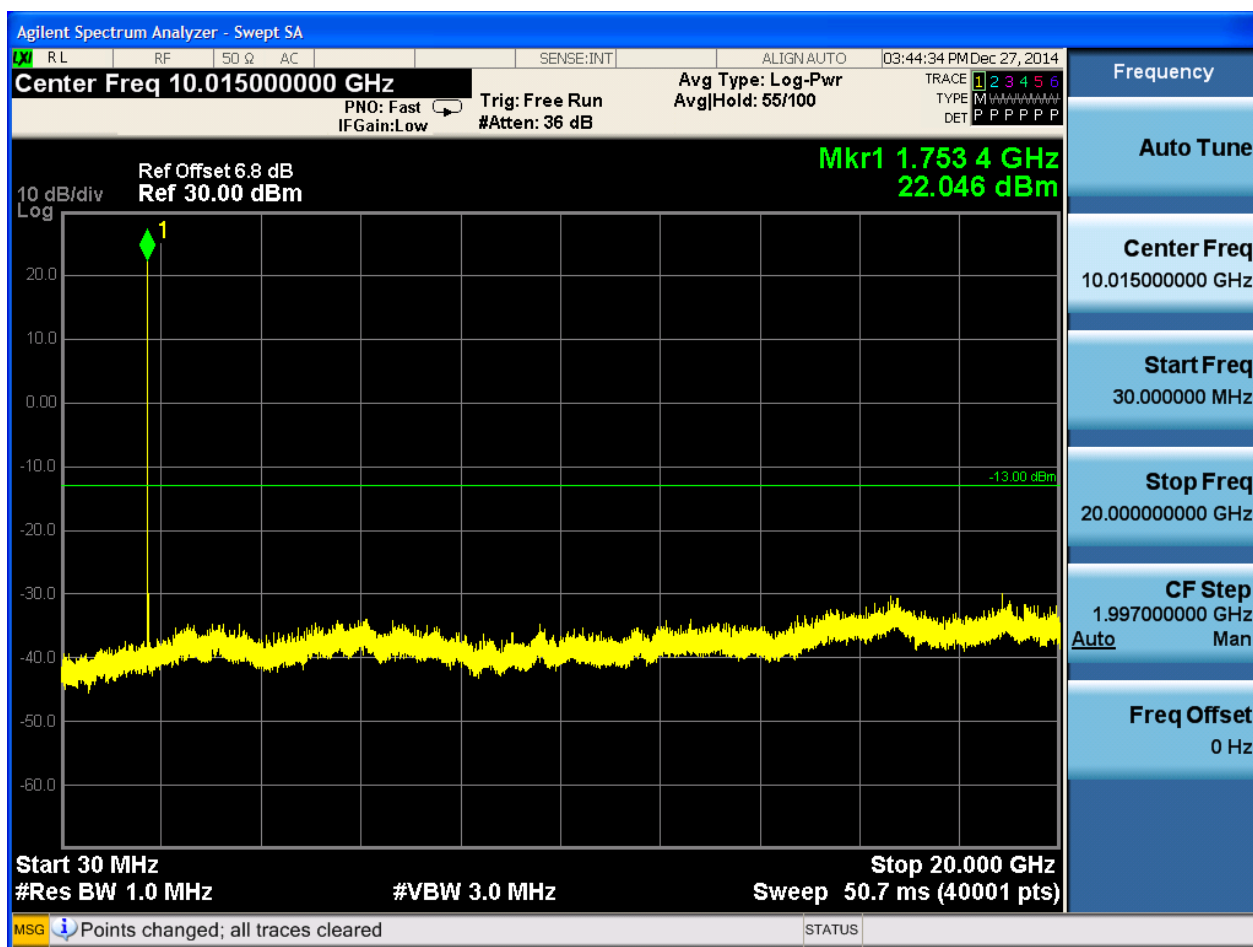




6.2.3.1.3 Test Channel = HCH







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

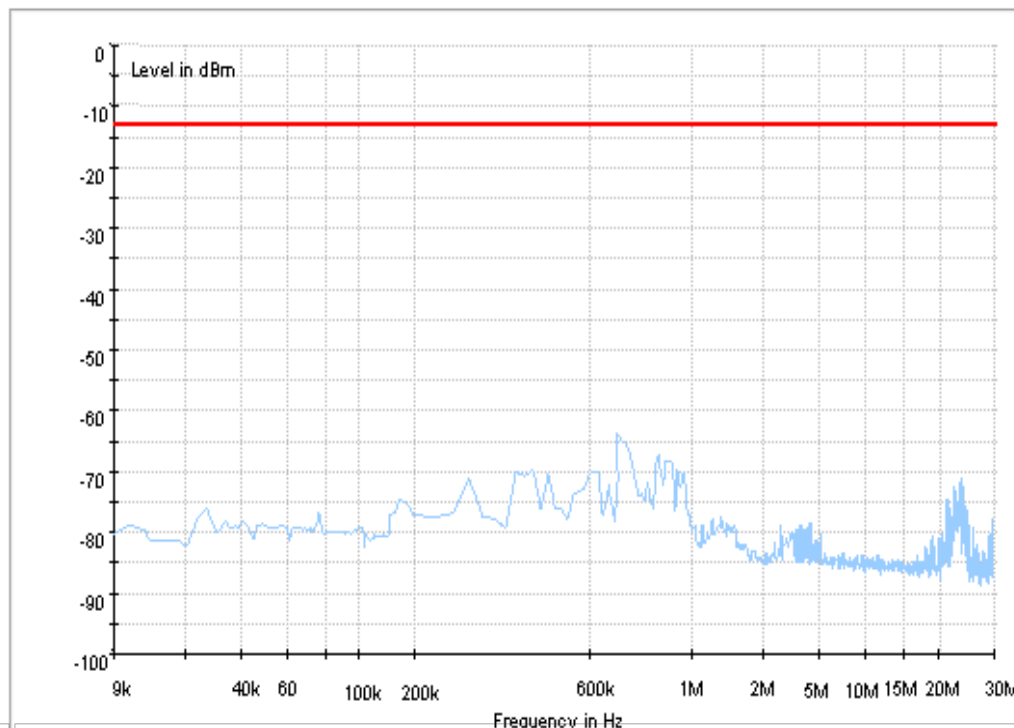
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

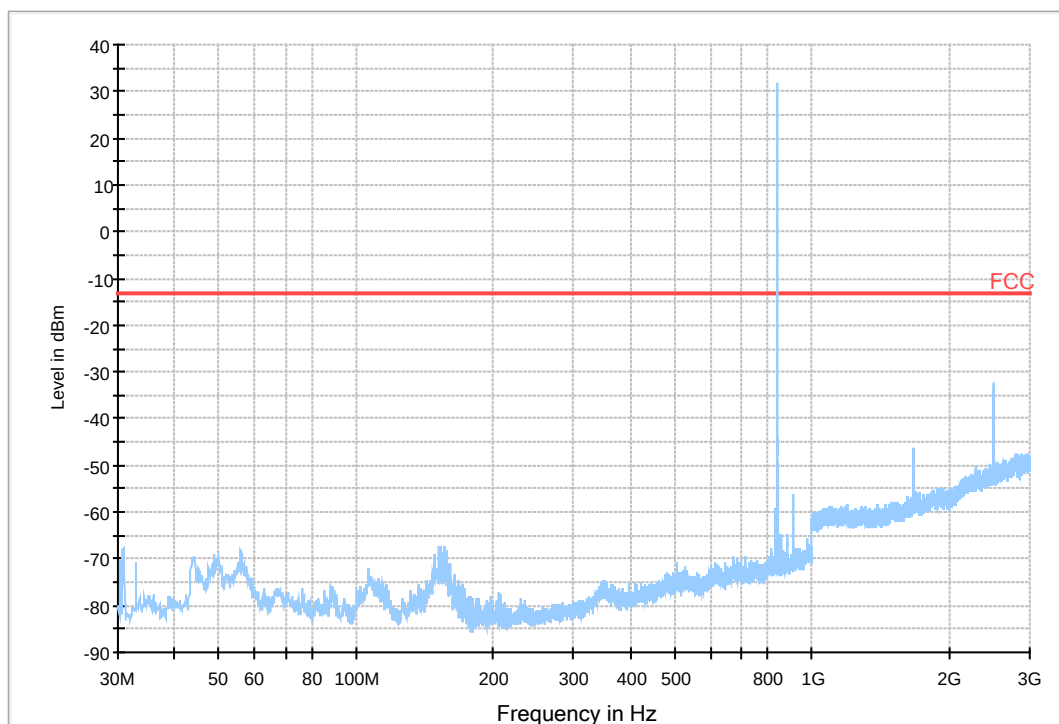
7.1 For GSM

7.1.1 Test Band = GSM850

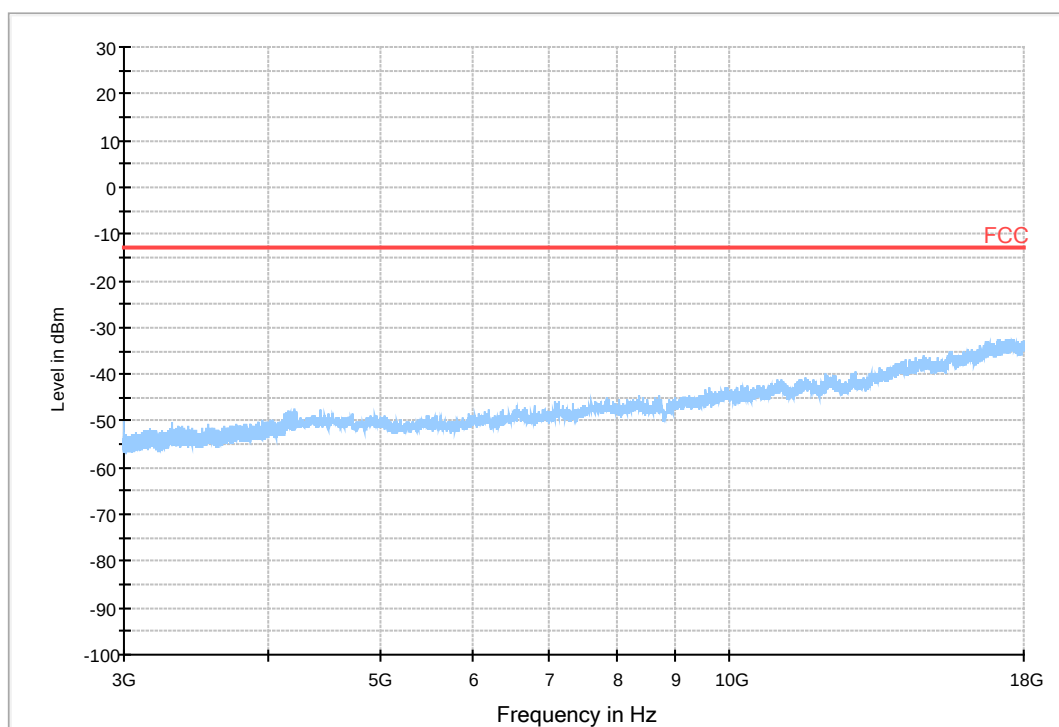
7.1.1.1 Test Mode = GSM/TM1



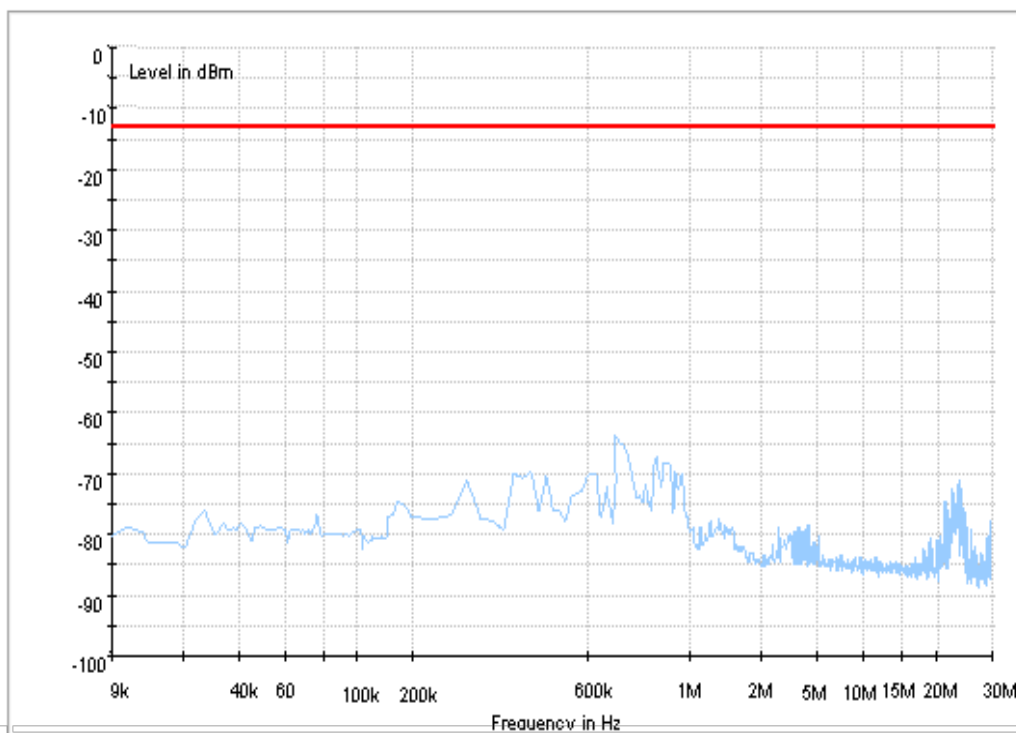
Copy of FCC PART22 GSM850_L



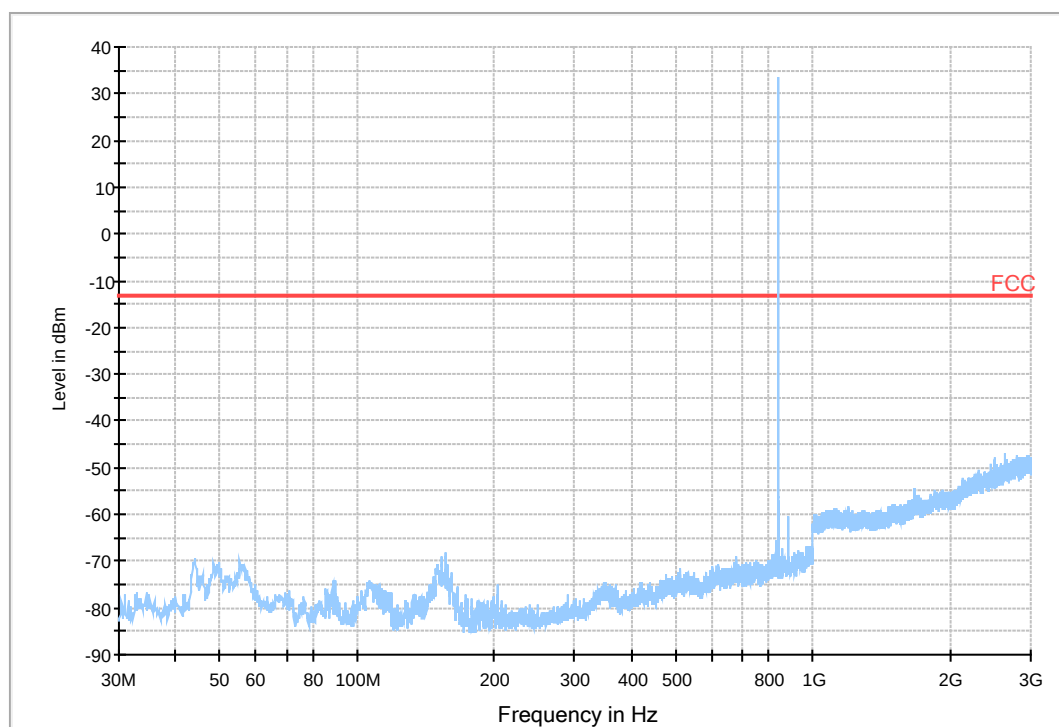
Copy of FCC PART22 GSM850_H



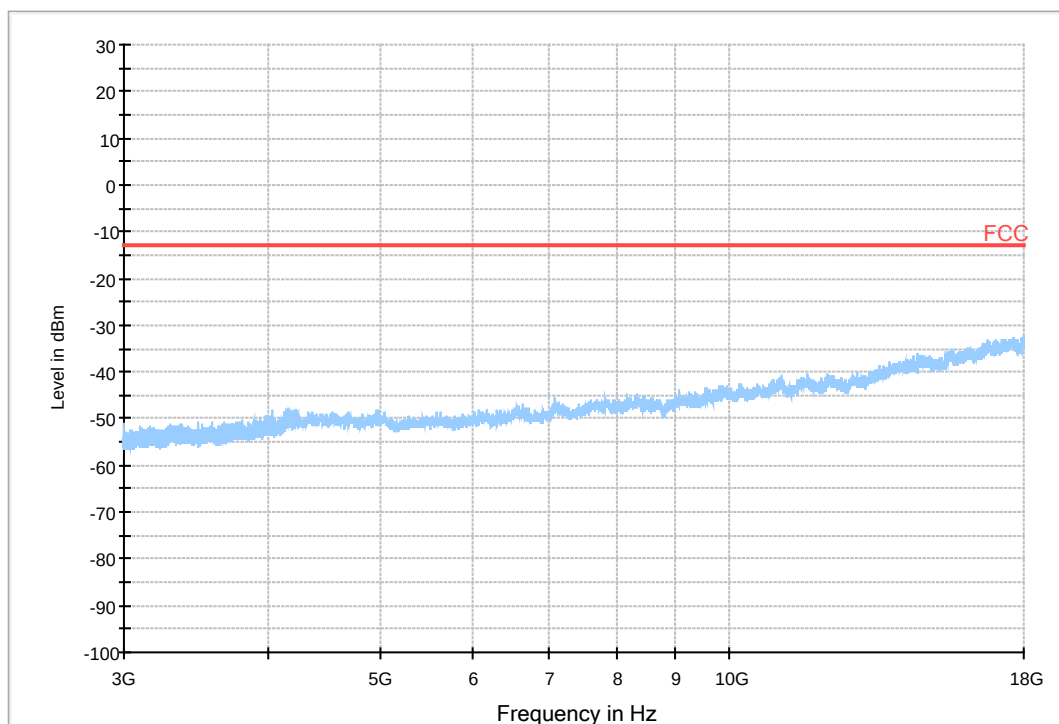
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

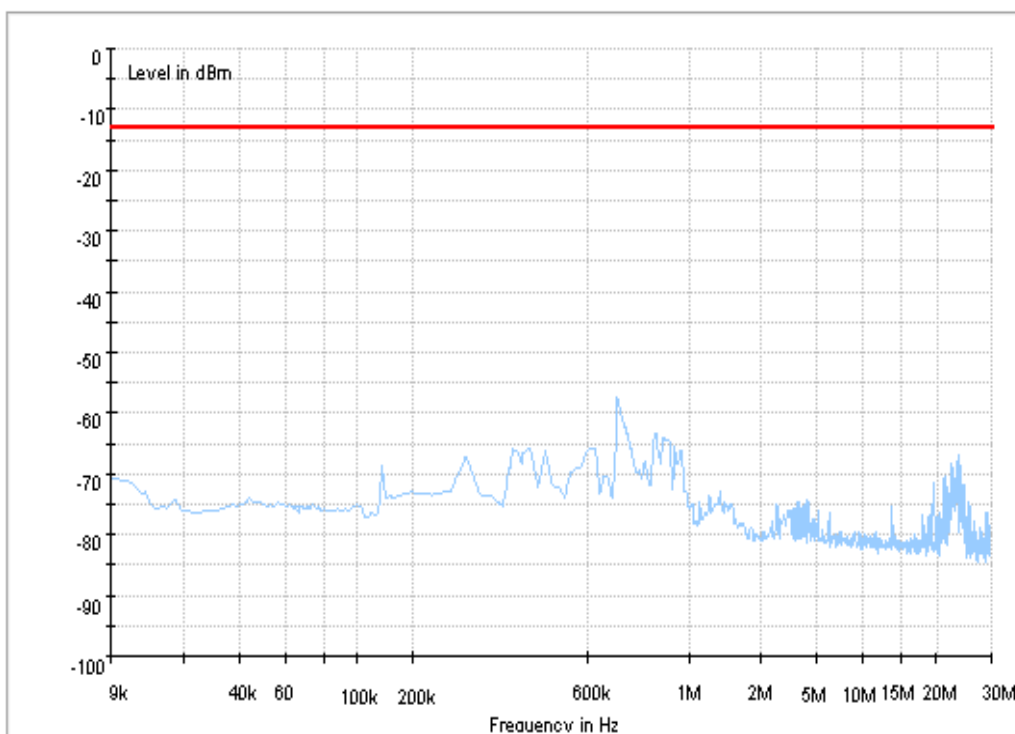


Copy of FCC PART22 GSM850_H

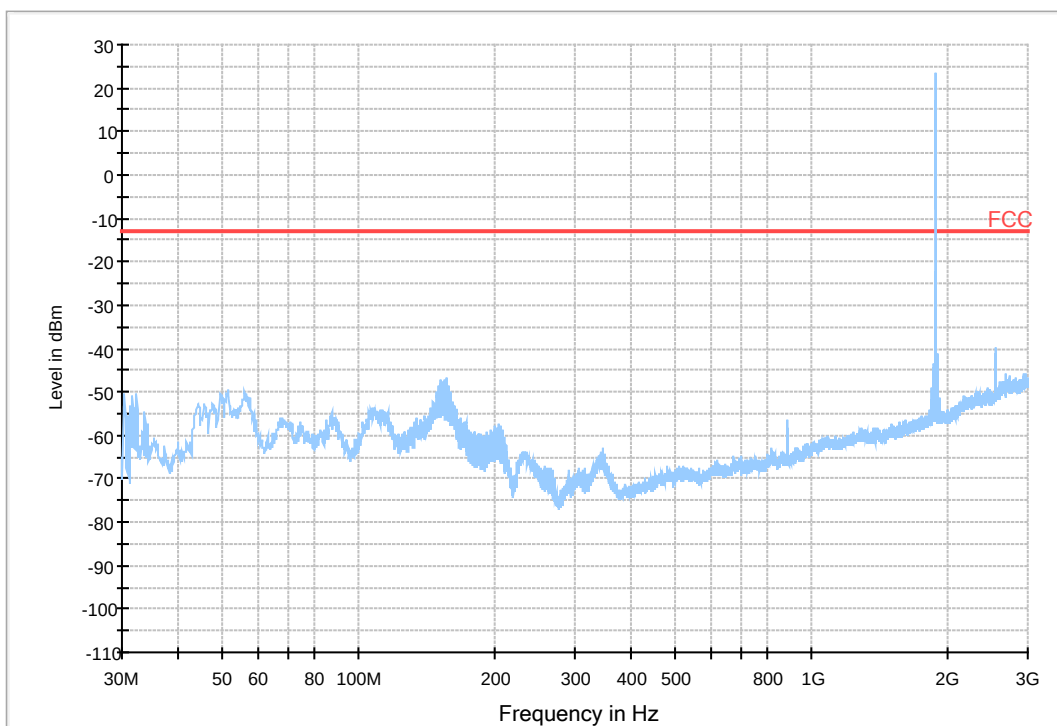


7.1.2 Test Band = GSM1900

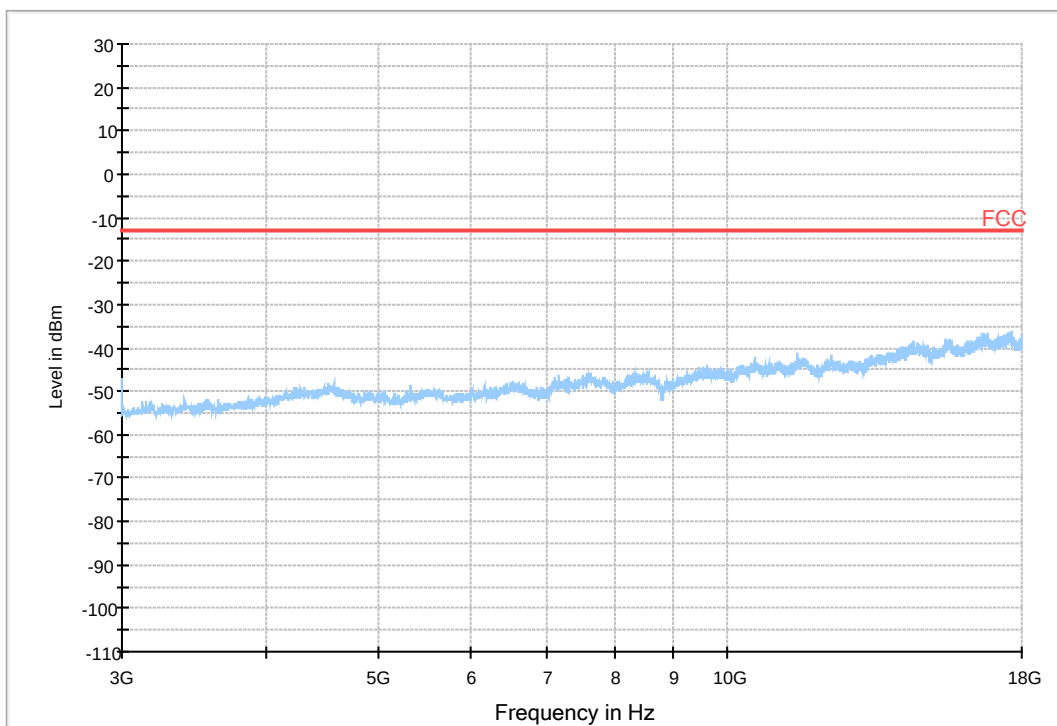
7.1.2.1 Test Mode = GSM/TM1

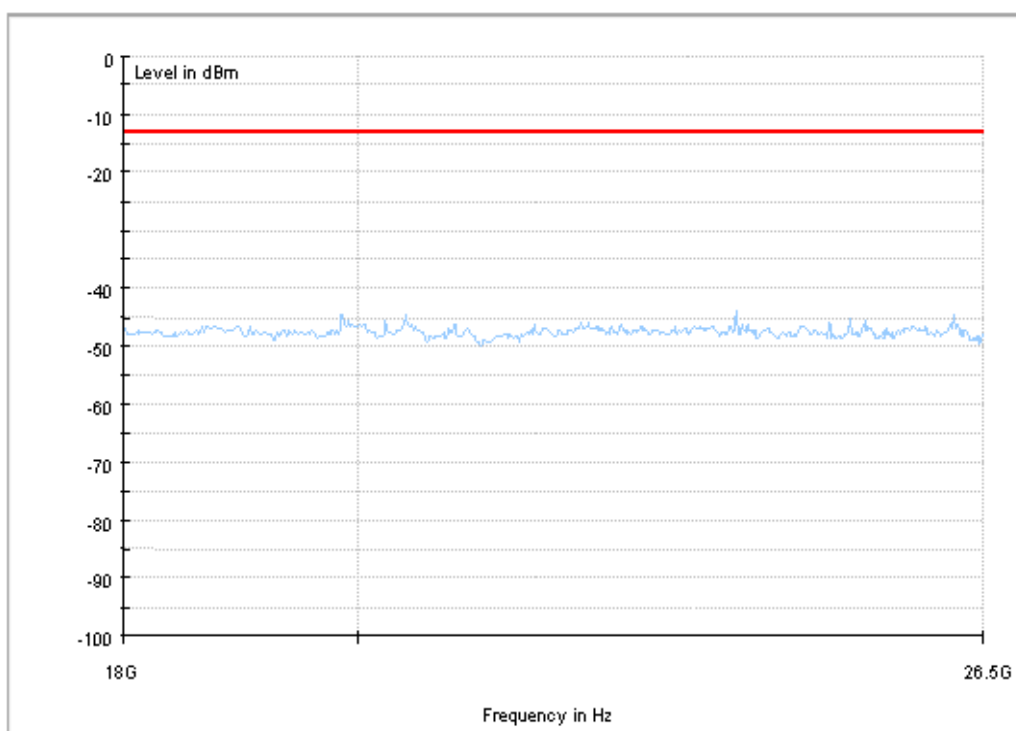


Copy of FCC PART24 GSM1900_L

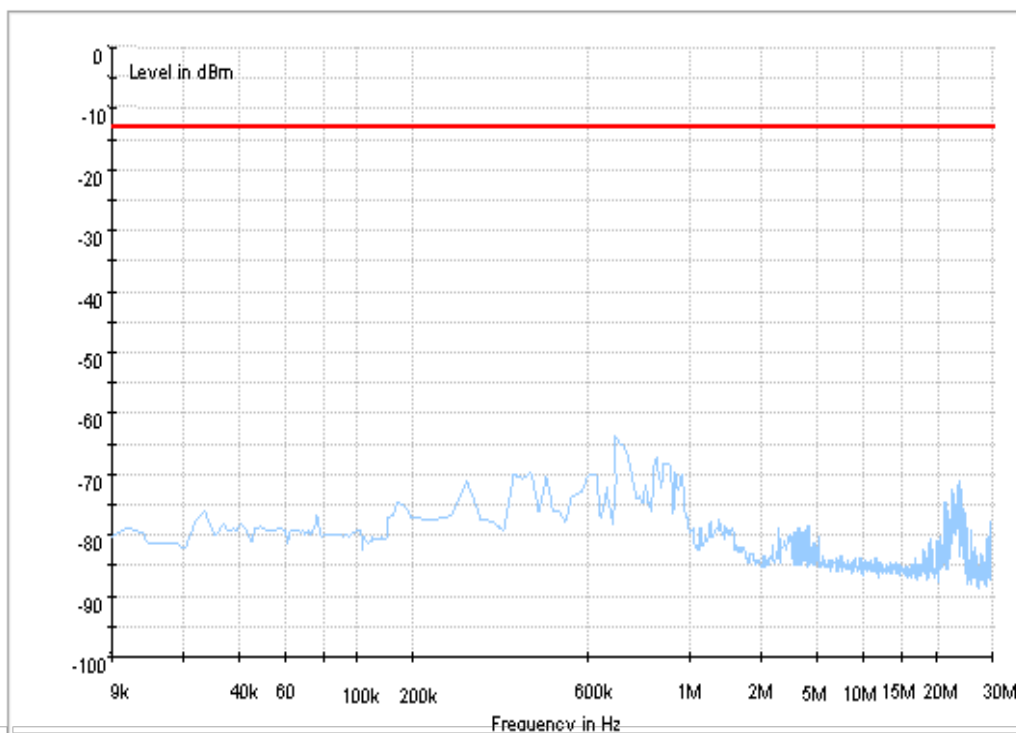


Copy of FCC PART24 GSM1900_H

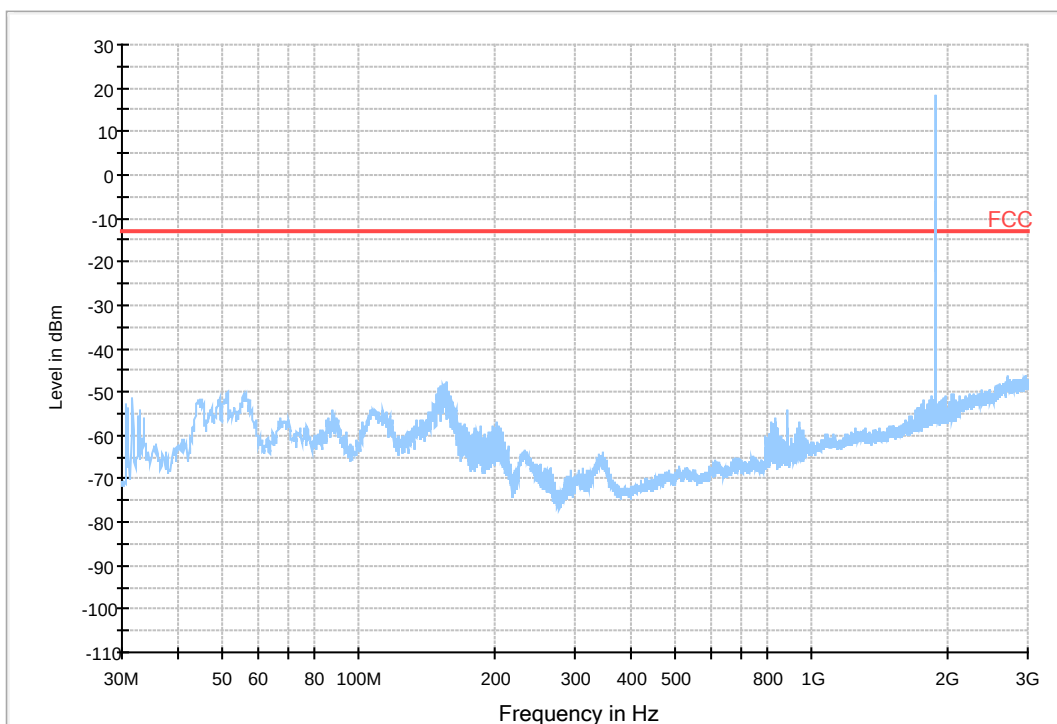




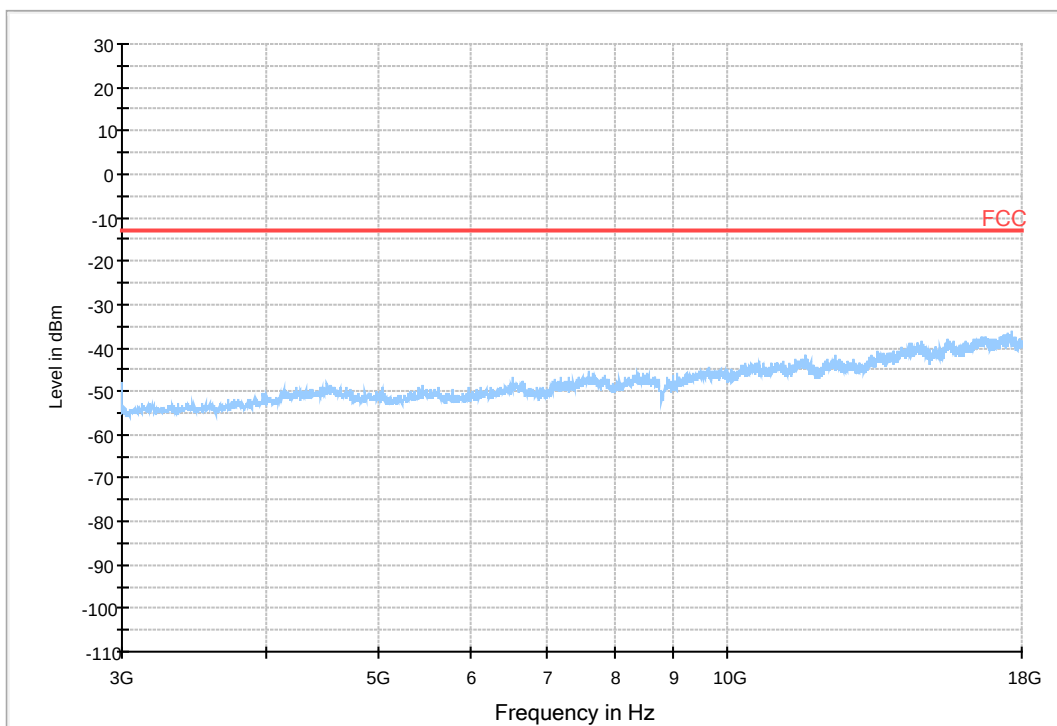
7.1.2.2 Test Mode = GSM/TM2

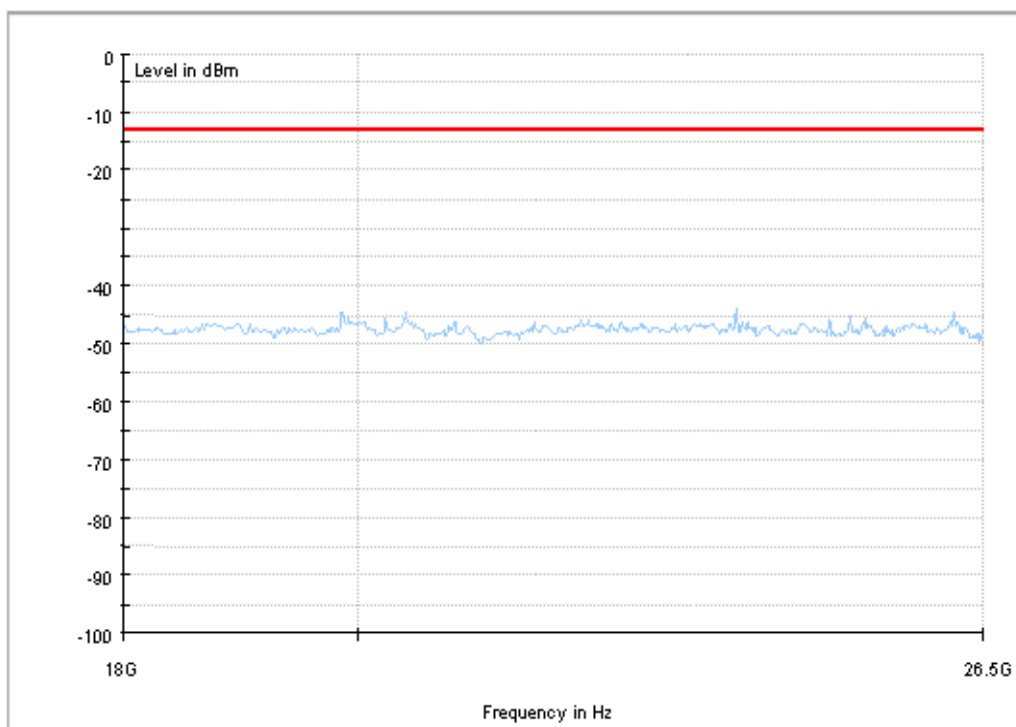


Copy of FCC PART24 GSM1900_L



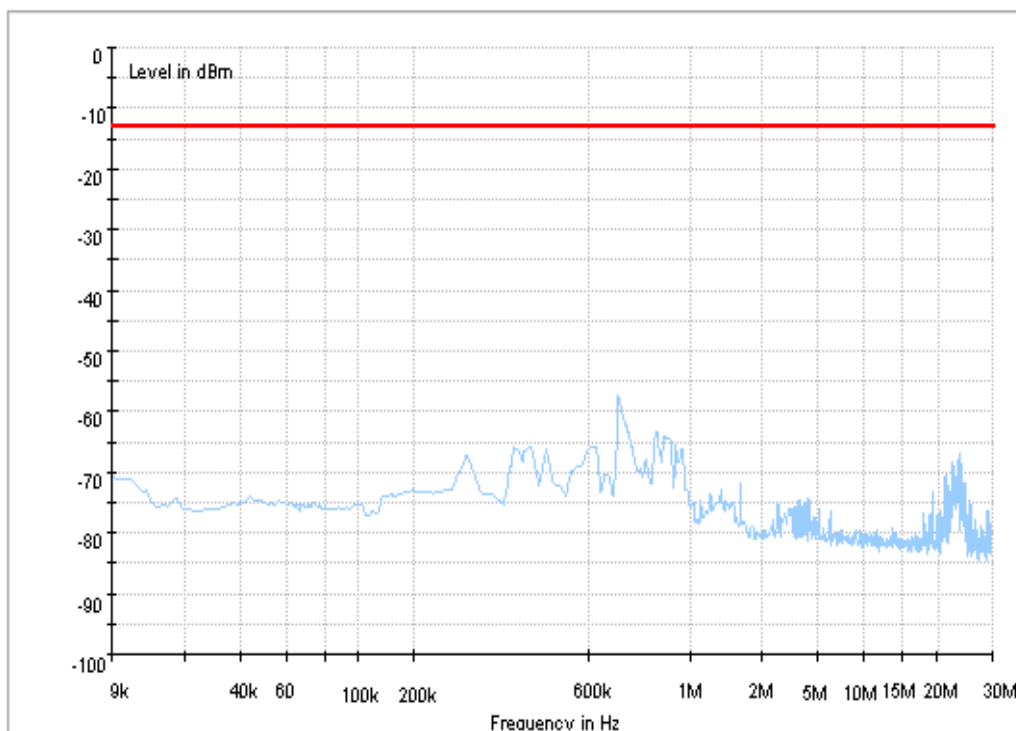
Copy of FCC PART24 GSM1900_H



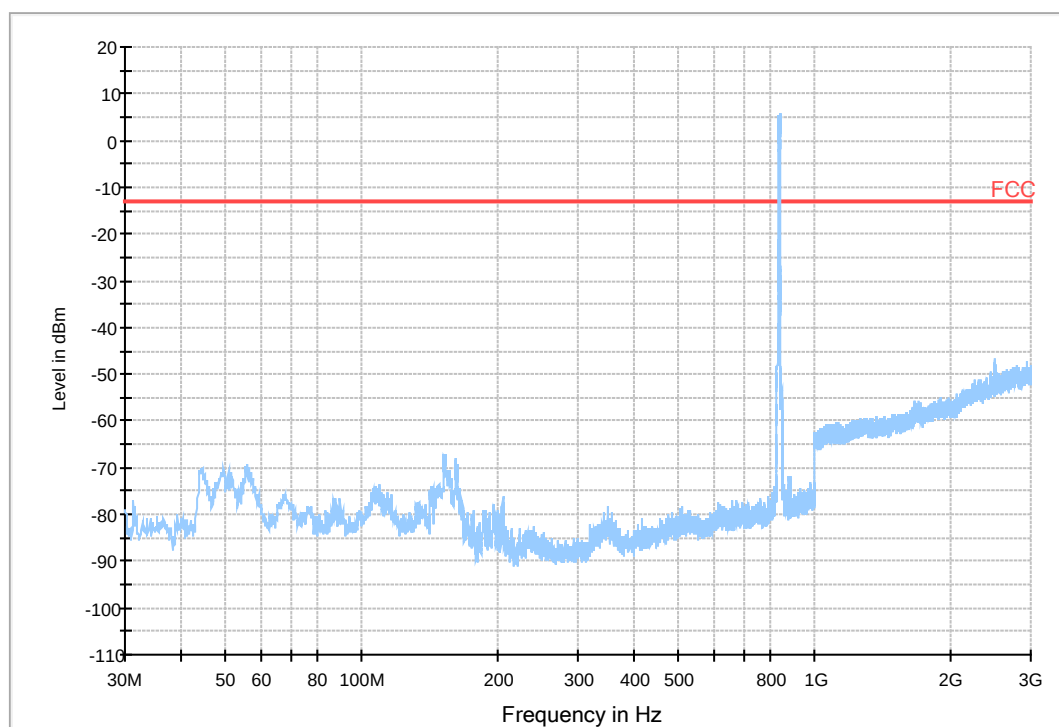


7.2 For

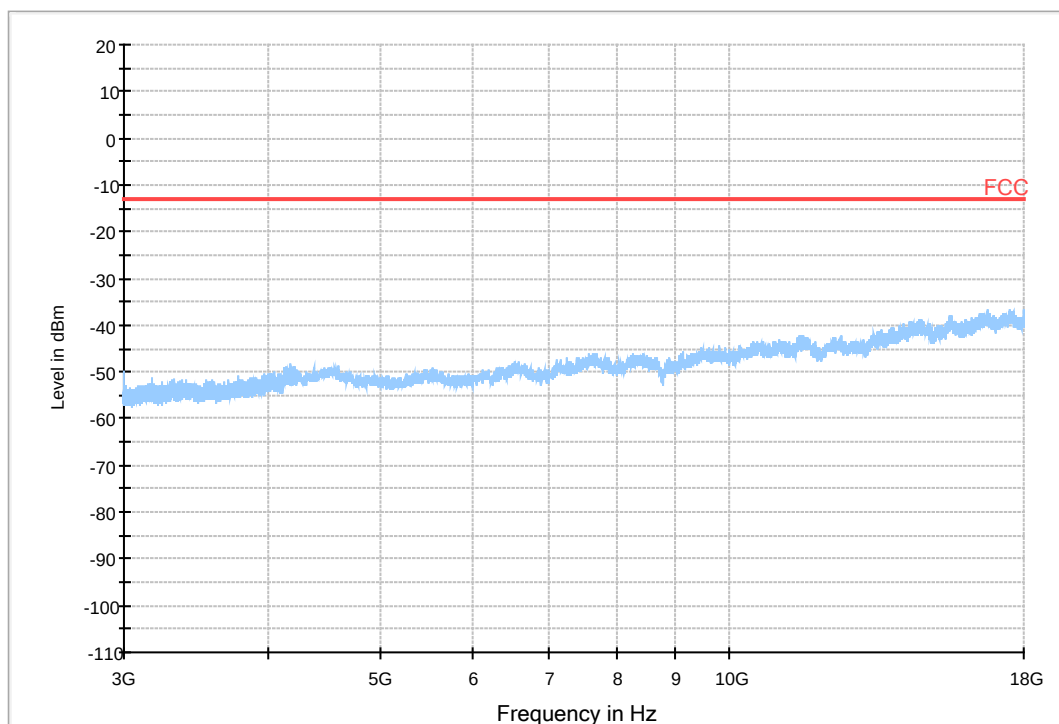
UMTS**7.2.1 Test Band = WCDMA850****7.2.1.1 Test Mode = UMTS/TM1**



Copy of FCC PART22 WCDMA850_L

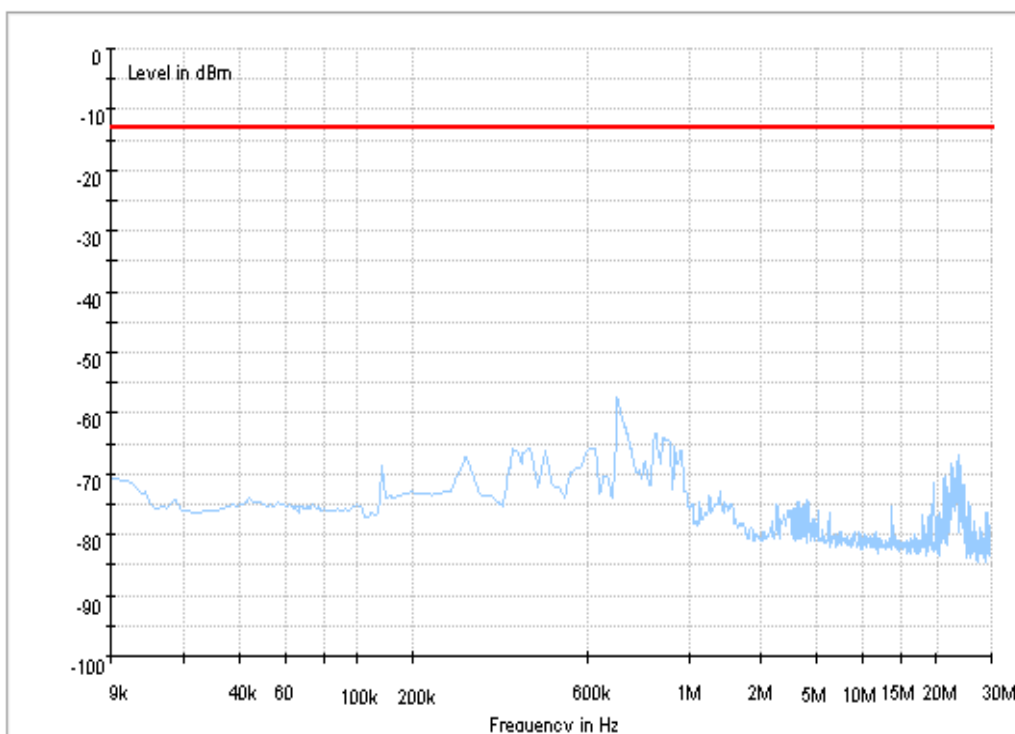


Copy of FCC PART22 WCDMA850_H

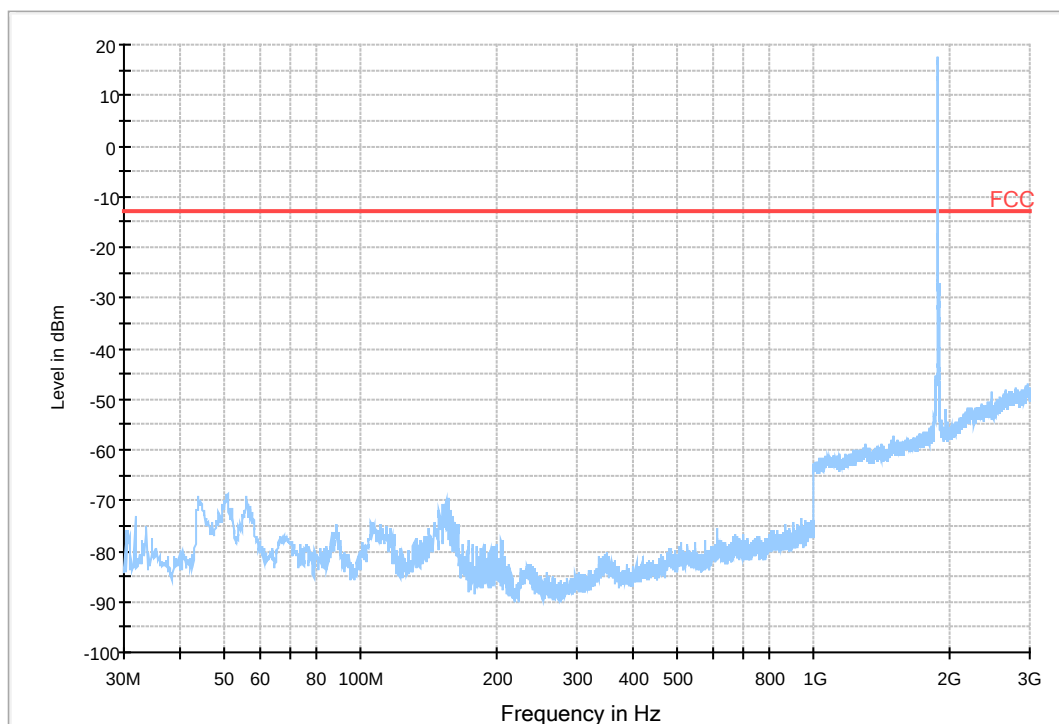


7.2.2 Test Band = WCDMA1900

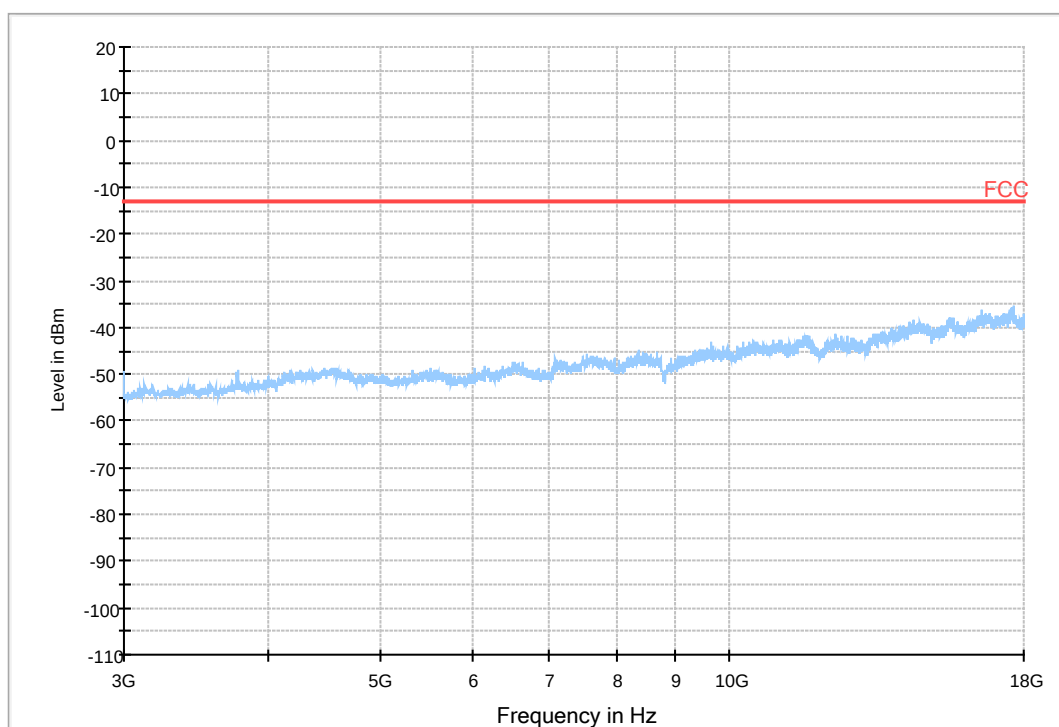
7.2.2.1 Test Mode = UMTS/TM1

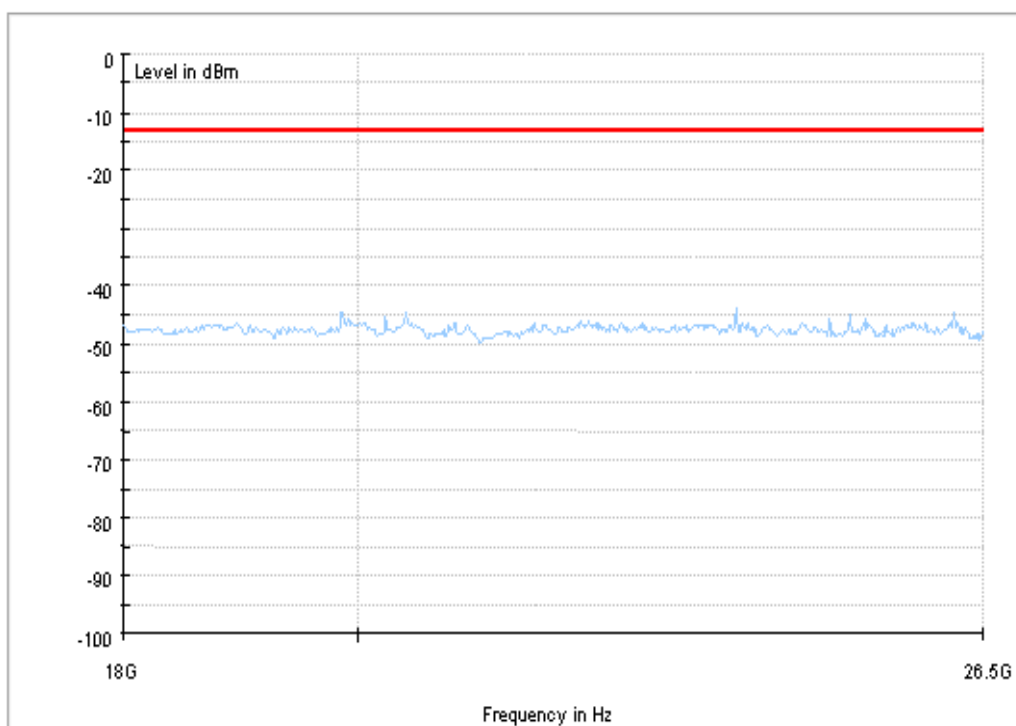


Copy of FCC PART24 WCDMA1900_L



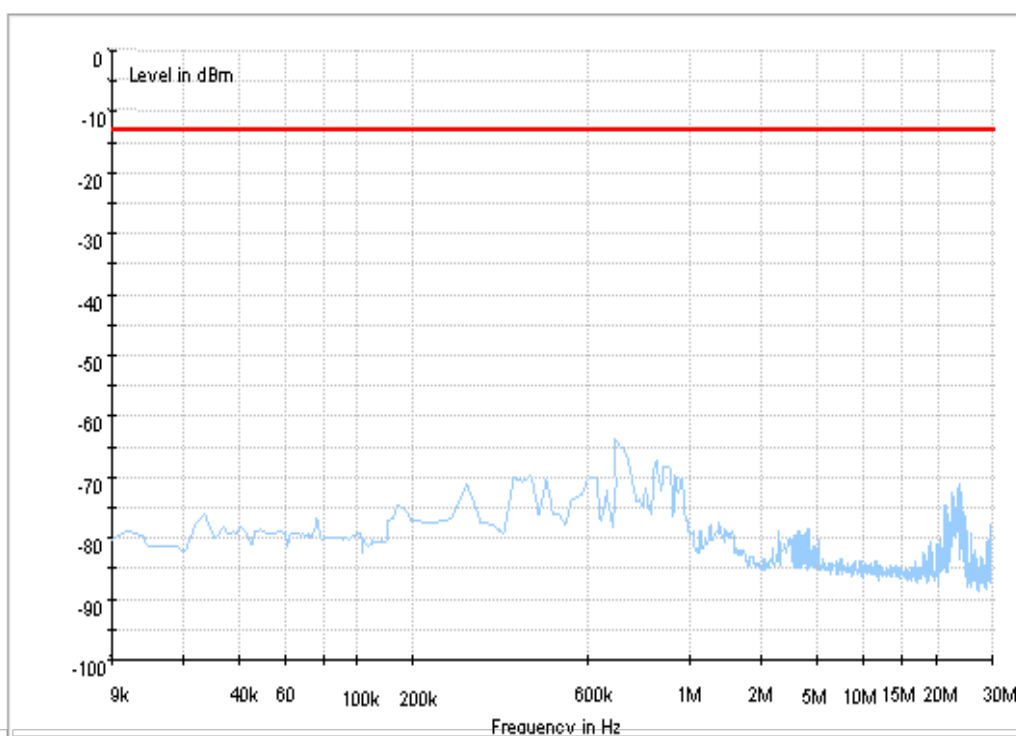
Copy of FCC PART24 WCDMA1900_H



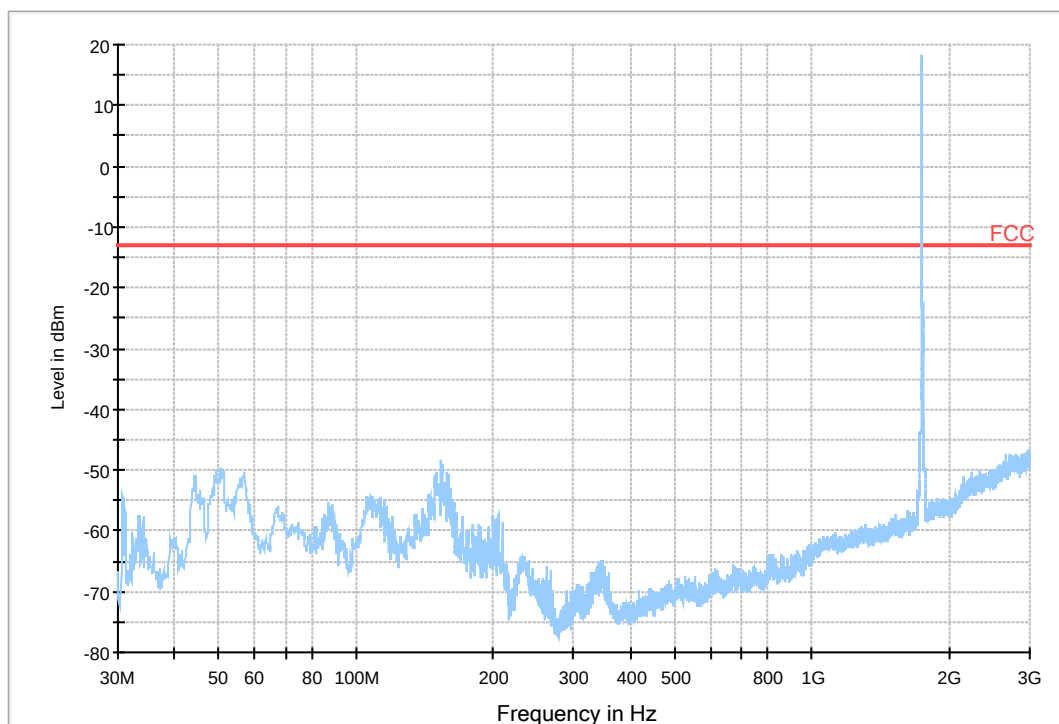


7.2.3 Test Band = WCDMA1700

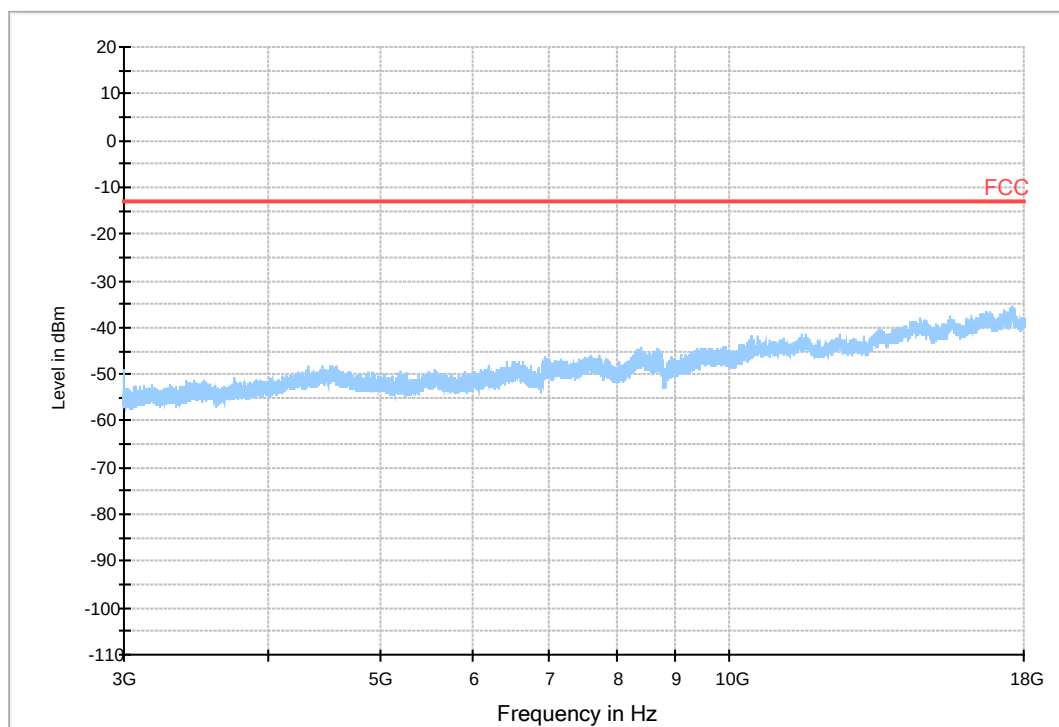
7.2.3.1 Test Mode = UMTS/TM1



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	-2.91	-0.00353	PASS
				VN	-3.87	-0.0047	PASS
				VH	-0.32	-0.00039	PASS
		MCH	TN	VL	-2.00	-0.00239	PASS
				VN	-3.49	-0.00417	PASS
				VH	-5.04	-0.00602	PASS
		HCH	TN	VL	-0.32	-0.00038	PASS
				VN	-5.29	-0.00623	PASS
				VH	-4.46	-0.00525	PASS
	GSM/TM2	LCH	TN	VL	-11.95	-0.0145	PASS
				VN	-7.49	-0.00909	PASS
				VH	-16.66	-0.02021	PASS
		MCH	TN	VL	-7.68	-0.00918	PASS
				VN	-6.97	-0.00833	PASS
				VH	-5.94	-0.0071	PASS
		HCH	TN	VL	-11.14	-0.01312	PASS
				VN	-8.85	-0.01043	PASS
				VH	-8.94	-0.01053	PASS
GSM1900	GSM/TM1	LCH	TN	VL	21.89	0.01183	PASS
				VN	18.79	0.01016	PASS
				VH	20.40	0.01103	PASS
		MCH	TN	VL	12.14	0.00646	PASS
				VN	8.07	0.00429	PASS
				VH	11.43	0.00608	PASS
		HCH	TN	VL	20.21	0.01058	PASS
				VN	14.08	0.00737	PASS
				VH	15.50	0.00812	PASS
	GSM/TM2	LCH	TN	VL	11.14	0.00602	PASS
				VN	-9.65	-0.00522	PASS
				VH	1.16	0.00063	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	-15.27	-0.00812	PASS
				VN	-9.40	-0.005	PASS
				VH	2.42	0.00129	PASS
		HCH	TN	VL	-1.45	-0.00076	PASS
				VN	-3.23	-0.00169	PASS
				VH	-2.20	-0.00115	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	0.52	0.00063	PASS
				-20	-1.42	-0.00172	PASS
				-10	-3.42	-0.00415	PASS
				0	-2.58	-0.00313	PASS
				10	-3.81	-0.00462	PASS
				20	-3.62	-0.00439	PASS
				30	-6.01	-0.00729	PASS
				40	-0.90	-0.00109	PASS
				50	-3.81	-0.00462	PASS
		MCH	VN	-30	-4.20	-0.00502	PASS
				-20	-2.39	-0.00286	PASS
				-10	-3.49	-0.00417	PASS
				0	-4.65	-0.00556	PASS
				10	-3.36	-0.00402	PASS
				20	-3.75	-0.00448	PASS
				30	-4.26	-0.00509	PASS
				40	-2.71	-0.00324	PASS
				50	-3.94	-0.00471	PASS
		HCH	VN	-30	-2.65	-0.00312	PASS
				-20	-1.87	-0.0022	PASS
				-10	-3.16	-0.00372	PASS
				0	-2.39	-0.00282	PASS
				10	-2.58	-0.00304	PASS
				20	-6.65	-0.00783	PASS
				30	-2.97	-0.0035	PASS
				40	-2.84	-0.00335	PASS
				50	-3.94	-0.00464	PASS
	GSM/TM2	LCH	VN	-30	-12.62	-0.01531	PASS
				-20	-8.17	-0.00991	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-10	-11.53	-0.01399	PASS
				0	-8.72	-0.01058	PASS
				10	-5.71	-0.00693	PASS
				20	-16.34	-0.01983	PASS
				30	-9.49	-0.01151	PASS
				40	-12.62	-0.01531	PASS
				50	-6.20	-0.00752	PASS
		MCH	VN	-30	-9.72	-0.01162	PASS
				-20	-8.75	-0.01046	PASS
				-10	-9.23	-0.01103	PASS
				0	-13.30	-0.0159	PASS
				10	-6.59	-0.00788	PASS
				20	-14.14	-0.0169	PASS
				30	-10.07	-0.01204	PASS
				40	-7.07	-0.00845	PASS
				50	-16.98	-0.0203	PASS
		HCH	VN	-30	-7.91	-0.00932	PASS
				-20	-13.33	-0.0157	PASS
				-10	-5.39	-0.00635	PASS
				0	-6.17	-0.00727	PASS
				10	-11.20	-0.0132	PASS
				20	-2.45	-0.00289	PASS
				30	-13.04	-0.01536	PASS
				40	-14.69	-0.01731	PASS
				50	-4.68	-0.00551	PASS
GSM1900	GSM/TM1	LCH	VN	-30	7.04	0.0038	PASS
				-20	20.15	0.01089	PASS
				-10	8.20	0.00443	PASS
				0	8.01	0.00433	PASS
				10	15.63	0.00845	PASS
				20	20.92	0.01131	PASS
				30	21.63	0.01169	PASS
				40	18.73	0.01012	PASS
				50	18.73	0.01012	PASS
		MCH	VN	-30	12.72	0.00677	PASS
				-20	12.27	0.00653	PASS
				-10	9.69	0.00515	PASS
				0	12.91	0.00687	PASS
				10	11.62	0.00618	PASS
				20	7.81	0.00415	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				30	12.07	0.00642	PASS
				40	10.20	0.00543	PASS
				50	10.01	0.00532	PASS
		HCH	VN	-30	15.30	0.00801	PASS
				-20	17.05	0.00893	PASS
				-10	11.17	0.00585	PASS
				0	11.24	0.00589	PASS
				10	14.33	0.0075	PASS
				20	10.20	0.00534	PASS
				30	15.50	0.00812	PASS
				40	14.59	0.00764	PASS
				50	13.82	0.00724	PASS
	GSM/TM2	LCH	VN	-30	1.97	0.00106	PASS
				-20	-10.75	-0.00581	PASS
				-10	9.04	0.00489	PASS
				0	1.19	0.00064	PASS
				10	-0.16	-0.00009	PASS
				20	-4.75	-0.00257	PASS
				30	-8.10	-0.00438	PASS
				40	-7.04	-0.0038	PASS
				50	0.10	0.00005	PASS
		MCH	VN	-30	-8.14	-0.00433	PASS
				-20	-7.88	-0.00419	PASS
				-10	-6.94	-0.00369	PASS
				0	-5.88	-0.00313	PASS
				10	-2.26	-0.0012	PASS
				20	-6.26	-0.00333	PASS
				30	-6.39	-0.0034	PASS
				40	-11.62	-0.00618	PASS
				50	-5.13	-0.00273	PASS
		HCH	VN	-30	1.36	0.00071	PASS
				-20	-2.87	-0.0015	PASS
				-10	1.87	0.00098	PASS
				0	-4.33	-0.00227	PASS
				10	-3.29	-0.00172	PASS
				20	2.97	0.00156	PASS
				30	-1.90	-0.00099	PASS
				40	1.32	0.00069	PASS
				50	6.36	0.00333	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	-0.70	-0.00085	PASS
				VN	-2.93	-0.00355	PASS
				VH	-1.48	-0.00179	PASS
		MCH	TN	VL	2.64	0.00316	PASS
				VN	4.84	0.00579	PASS
				VH	-5.19	-0.00621	PASS
		HCH	TN	VL	-2.90	-0.00343	PASS
				VN	-5.39	-0.00637	PASS
				VH	-6.16	-0.00728	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-6.26	-0.00338	PASS
				VN	-14.01	-0.00756	PASS
				VH	-1.65	-0.00089	PASS
		MCH	TN	VL	3.11	0.00165	PASS
				VN	-6.38	-0.00339	PASS
				VH	0.81	0.00043	PASS
		HCH	TN	VL	-24.80	-0.013	PASS
				VN	0.76	0.0004	PASS
				VH	-5.28	-0.00277	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	2.64	0.00154	PASS
				VN	0.49	0.00029	PASS
				VH	0.47	0.00027	PASS
		MCH	TN	VL	-2.30	-0.00133	PASS
				VN	-2.47	-0.00143	PASS
				VH	4.73	0.00273	PASS
		HCH	TN	VL	-10.28	-0.00587	PASS
				VN	-2.99	-0.00171	PASS
				VH	-1.56	-0.00089	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	-8.18	-0.0099	PASS
				-20	5.95	0.0072	PASS
				-10	-8.47	-0.01025	PASS
				0	-3.27	-0.00396	PASS
				10	-3.34	-0.00404	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				20	-9.11	-0.01102	PASS
				30	-5.04	-0.0061	PASS
				40	-4.26	-0.00515	PASS
				50	-0.23	-0.00028	PASS
		MCH	VN	-30	-1.48	-0.00177	PASS
				-20	-0.40	-0.00048	PASS
				-10	-11.32	-0.01353	PASS
				0	0.12	0.00014	PASS
				10	1.82	0.00218	PASS
				20	-5.13	-0.00613	PASS
				30	0.64	0.00077	PASS
				40	6.61	0.0079	PASS
				50	2.56	0.00306	PASS
		HCH	VN	-30	-13.18	-0.01557	PASS
				-20	2.33	0.00275	PASS
				-10	-2.98	-0.00352	PASS
				0	6.74	0.00796	PASS
				10	-3.75	-0.00443	PASS
				20	-2.96	-0.0035	PASS
				30	0.72	0.00085	PASS
				40	4.23	0.005	PASS
				50	6.85	0.00809	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	-12.89	-0.00696	PASS
				-20	-15.43	-0.00833	PASS
				-10	1.22	0.00066	PASS
				0	-4.24	-0.00229	PASS
				10	-13.23	-0.00714	PASS
				20	-5.04	-0.00272	PASS
				30	-3.91	-0.00211	PASS
				40	-3.95	-0.00213	PASS
				50	3.60	0.00194	PASS
		MCH	VN	-30	-4.01	-0.00213	PASS
				-20	-3.25	-0.00173	PASS
				-10	-4.33	-0.0023	PASS
				0	-4.03	-0.00214	PASS
				10	-6.06	-0.00322	PASS
				20	1.04	0.00055	PASS
				30	-8.83	-0.0047	PASS
				40	-6.61	-0.00352	PASS
				50	-4.62	-0.00246	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	-30	-4.04	-0.00212	PASS
				-20	-3.30	-0.00173	PASS
				-10	-5.29	-0.00277	PASS
				0	-6.09	-0.00319	PASS
				10	0.29	0.00015	PASS
				20	-2.15	-0.00113	PASS
				30	1.48	0.00078	PASS
				40	-4.07	-0.00213	PASS
				50	-4.29	-0.00225	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	4.67	0.00273	PASS
				-20	5.69	0.00332	PASS
				-10	2.03	0.00119	PASS
				0	-1.83	-0.00107	PASS
				10	1.28	0.00075	PASS
				20	-0.17	-0.0001	PASS
				30	0.69	0.0004	PASS
				40	4.01	0.00234	PASS
				50	-0.02	-0.00001	PASS
		MCH	VN	-30	5.55	0.0032	PASS
				-20	2.21	0.00128	PASS
				-10	-2.99	-0.00173	PASS
				0	1.94	0.00112	PASS
				10	1.45	0.00084	PASS
				20	-0.02	-0.00001	PASS
				30	-7.03	-0.00406	PASS
				40	-5.37	-0.0031	PASS
				50	2.03	0.00117	PASS
		HCH	VN	-30	-9.08	-0.00518	PASS
				-20	0.00	0	PASS
				-10	0.82	0.00047	PASS
				0	-1.83	-0.00104	PASS
				10	-9.84	-0.00561	PASS
				20	-6.16	-0.00351	PASS
				30	-5.55	-0.00317	PASS
				40	-1.57	-0.0009	PASS
				50	-2.66	-0.00152	PASS

END