



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	33.11	30.12	38.5	PASS
		MCH	33.05	30.06	38.5	PASS
		HCH	32.96	29.97	38.5	PASS
	GSM/TM2	LCH	26.9	23.91	38.5	PASS
		MCH	26.94	23.95	38.5	PASS
		HCH	26.95	23.96	38.5	PASS
WCDMA850	UMTS/TM1	LCH	23.46	20.47	38.5	PASS
		MCH	23.65	20.66	38.5	PASS
		HCH	23.67	20.68	38.5	PASS
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.87	31.63	33	PASS
		MCH	29.51	31.27	33	PASS
		HCH	29.33	31.09	33	PASS
	GSM/TM2	LCH	25.6	27.36	33	PASS
		MCH	25.59	27.35	33	PASS
		HCH	25.55	27.31	33	PASS
WCDMA1900	UMTS/TM1	LCH	23.31	25.07	33	PASS
		MCH	23.38	25.14	33	PASS
		HCH	23.26	25.02	33	PASS

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GSM/TM1	LCH	.22	13	PASS
		MCH	.22	13	PASS
		HCH	.21	13	PASS
	GSM/TM2	LCH	2.94	13	PASS
		MCH	2.85	13	PASS
		HCH	2.82	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM1	LCH	2.86	13	PASS
		MCH	2.69	13	PASS
		HCH	3.11	13	PASS

3Appendix_C: Modulation Characteristics

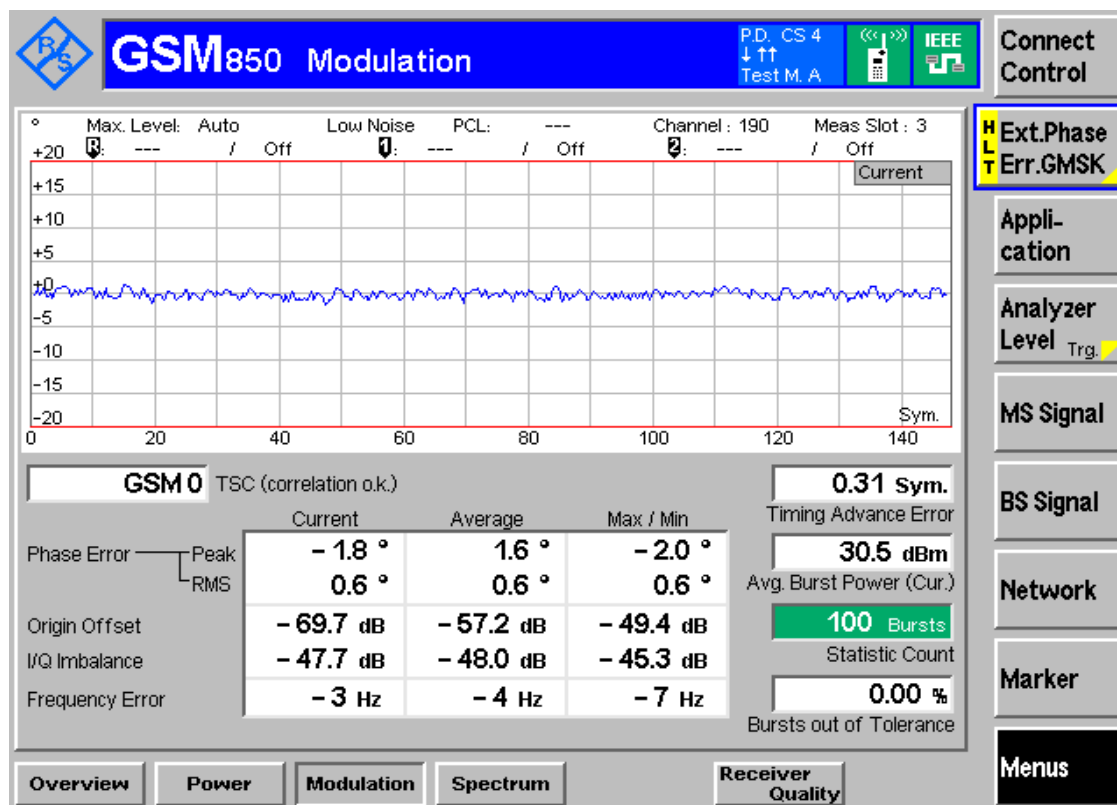
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

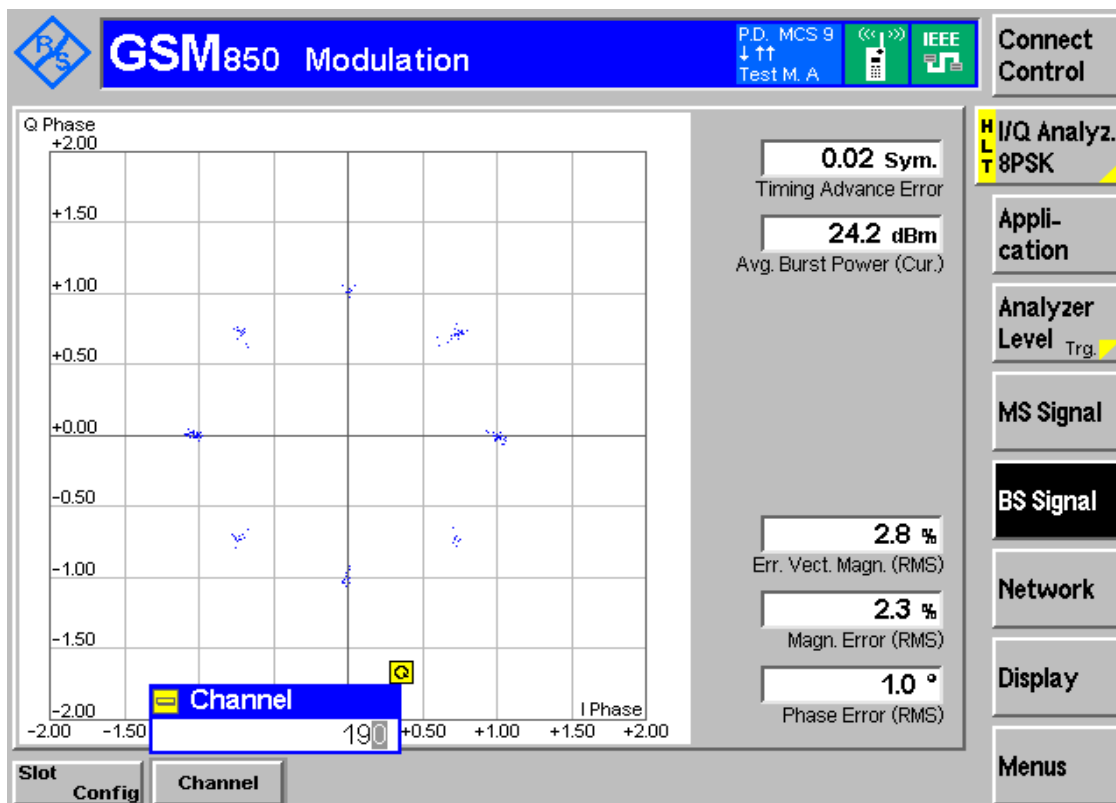
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = GSM/TM2

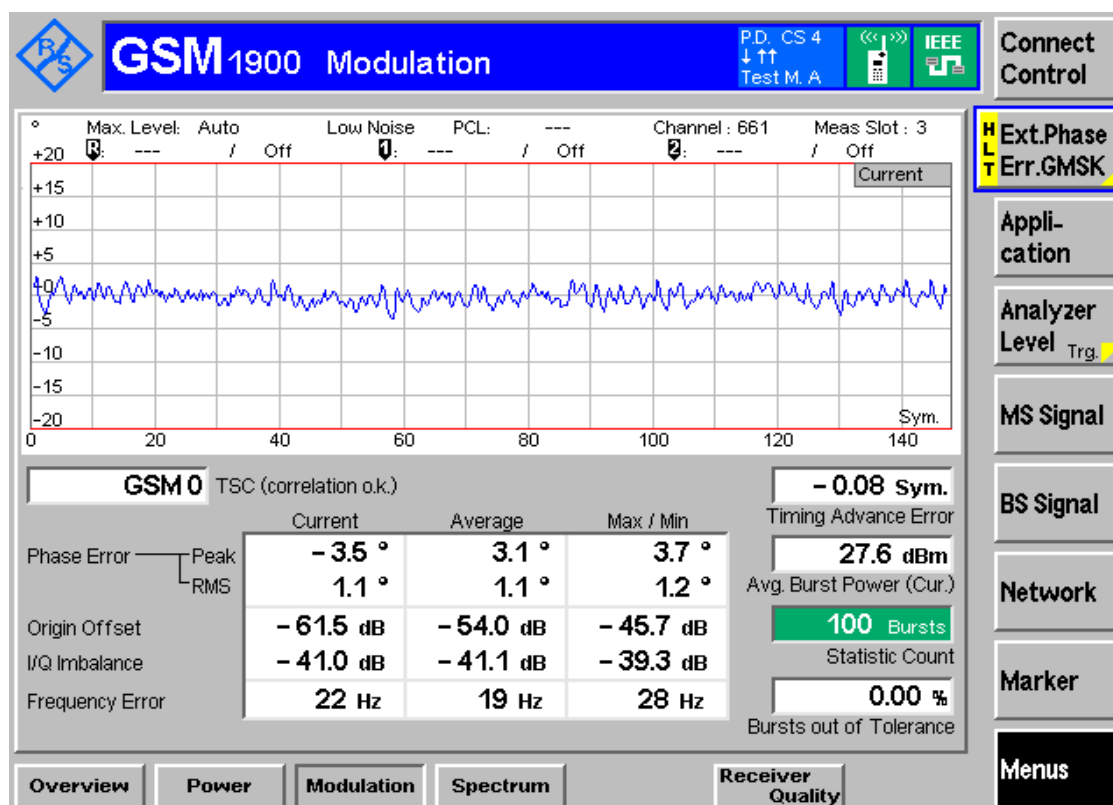
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM1900

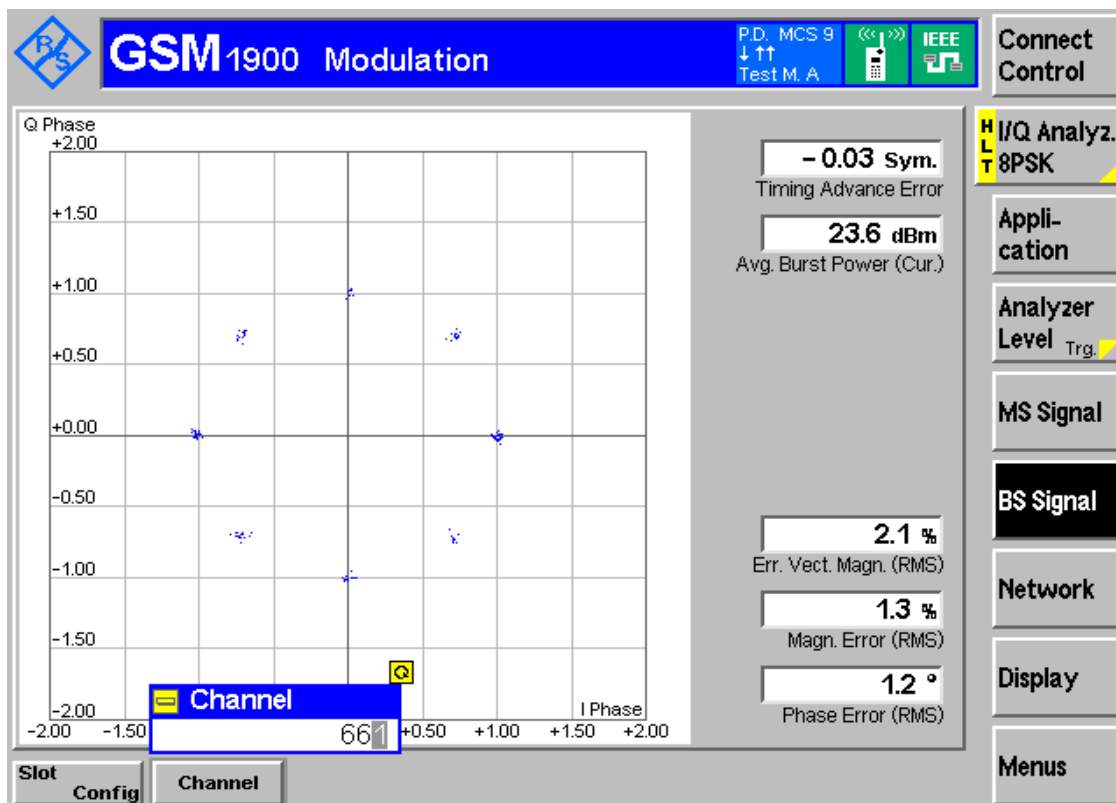
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH

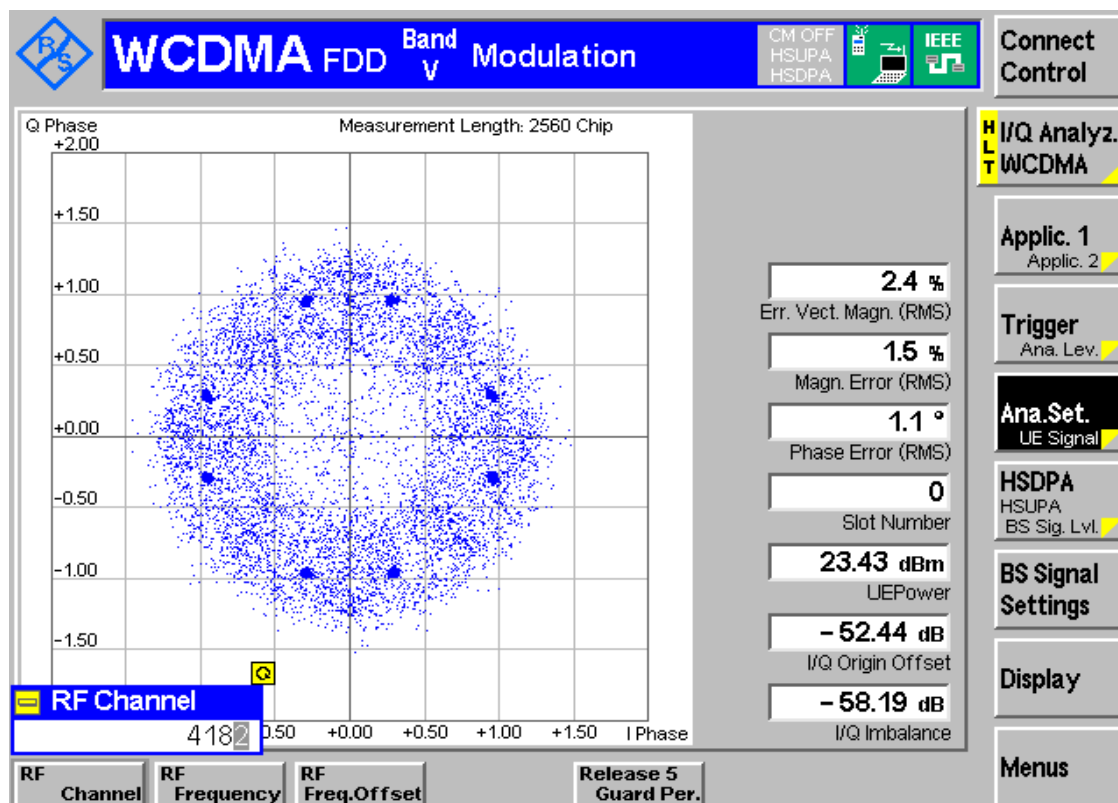


3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

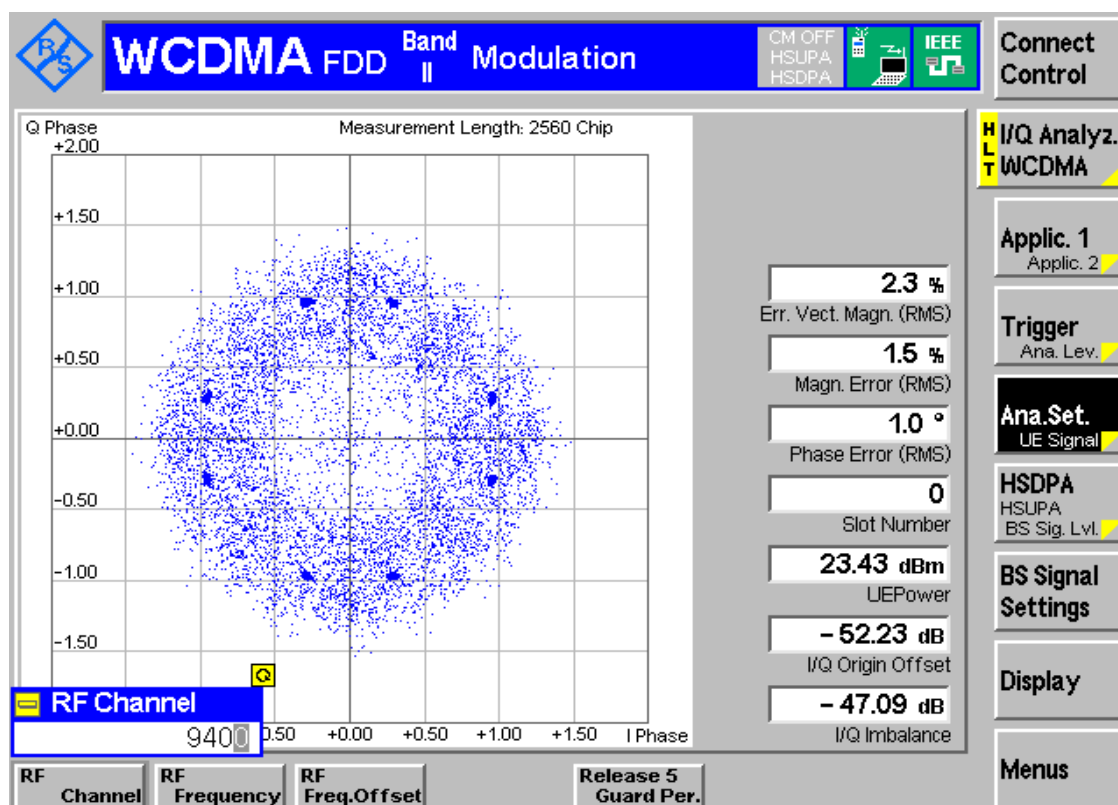
3.2.1.1.1 Test Channel = MCH



3.2.2 Test Band = WCDMA1900

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	241.28	314.19	Pass
		MCH	242.82	316.08	Pass
		HCH	243.06	310.69	Pass
	GSM/TM2	LCH	237.90	301.85	Pass
		MCH	236.47	288.09	Pass
		HCH	235.25	298.21	Pass
GSM1900	GSM/TM1	LCH	245.05	312.06	Pass
		MCH	243.29	314.72	Pass
		HCH	241.80	312.01	Pass
	GSM/TM2	LCH	247.56	318.58	Pass
		MCH	245.64	315.10	Pass
		HCH	240.84	310.06	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.18	4.72	Pass
		MCH	4.15	4.73	Pass
		HCH	4.17	4.71	Pass
WCDMA1900	UMTS/TM1	LCH	4.16	4.72	Pass
		MCH	4.17	4.72	Pass
		HCH	4.17	4.71	Pass

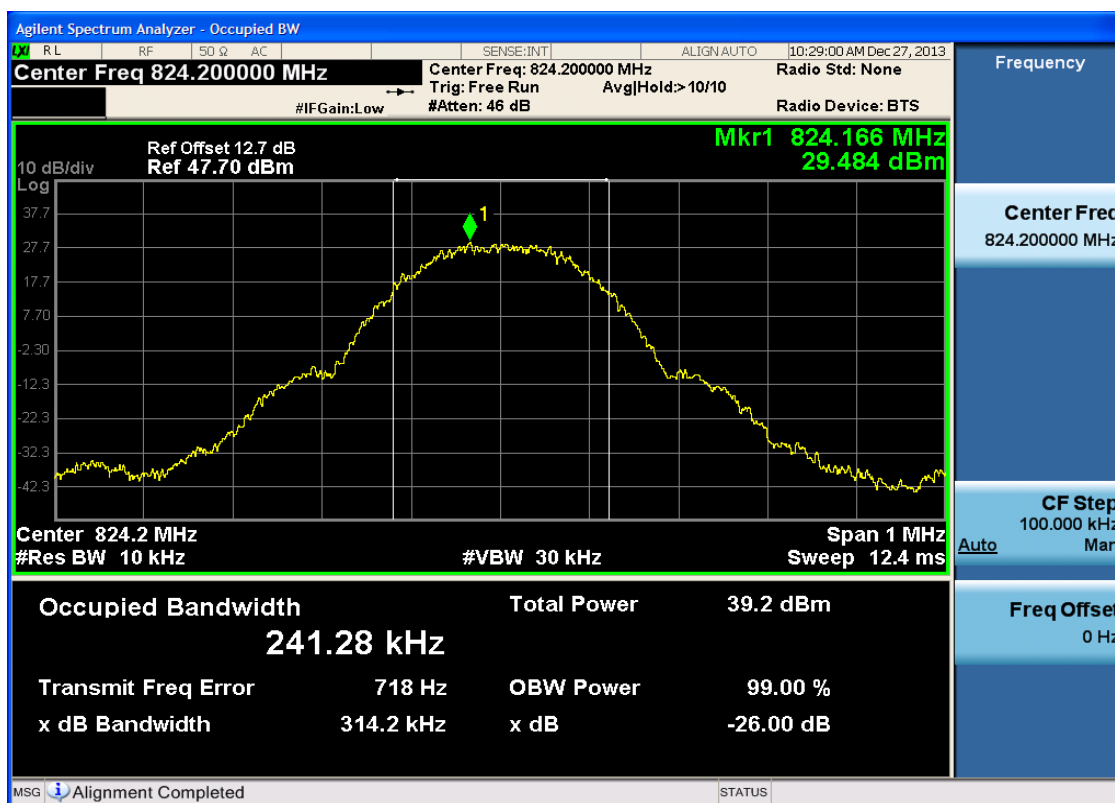
Part II - Test Plots

4.1 For GSM

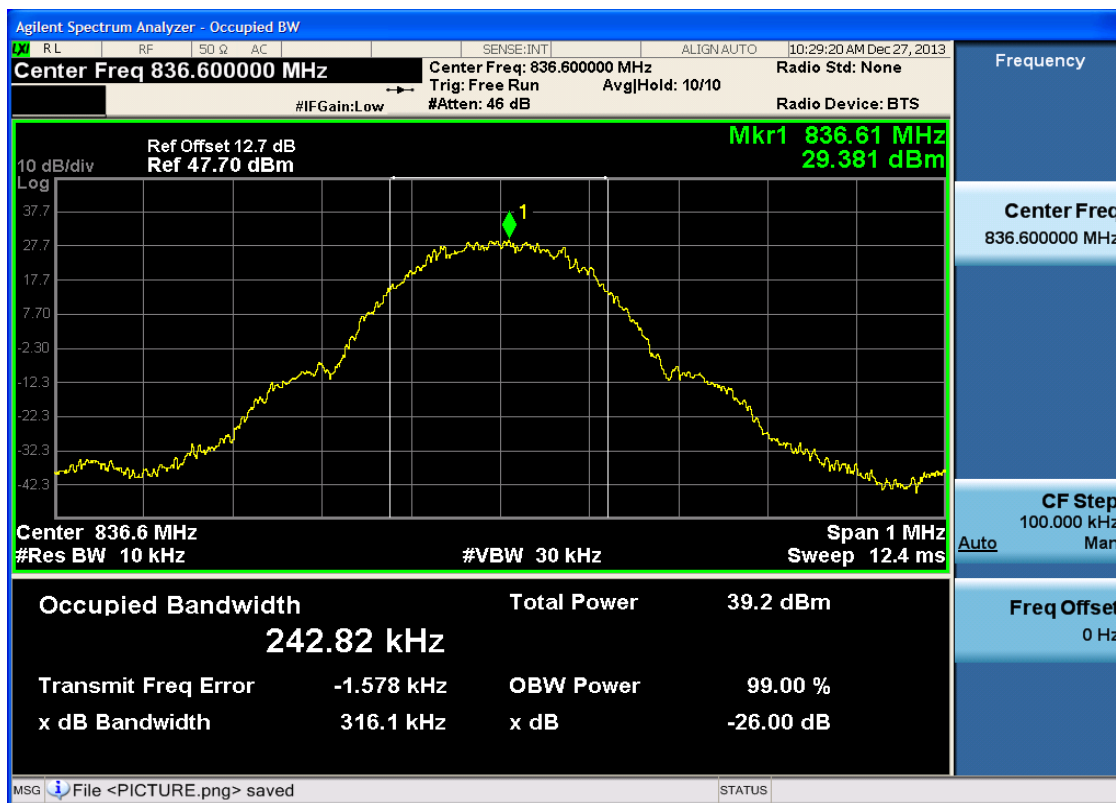
4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH

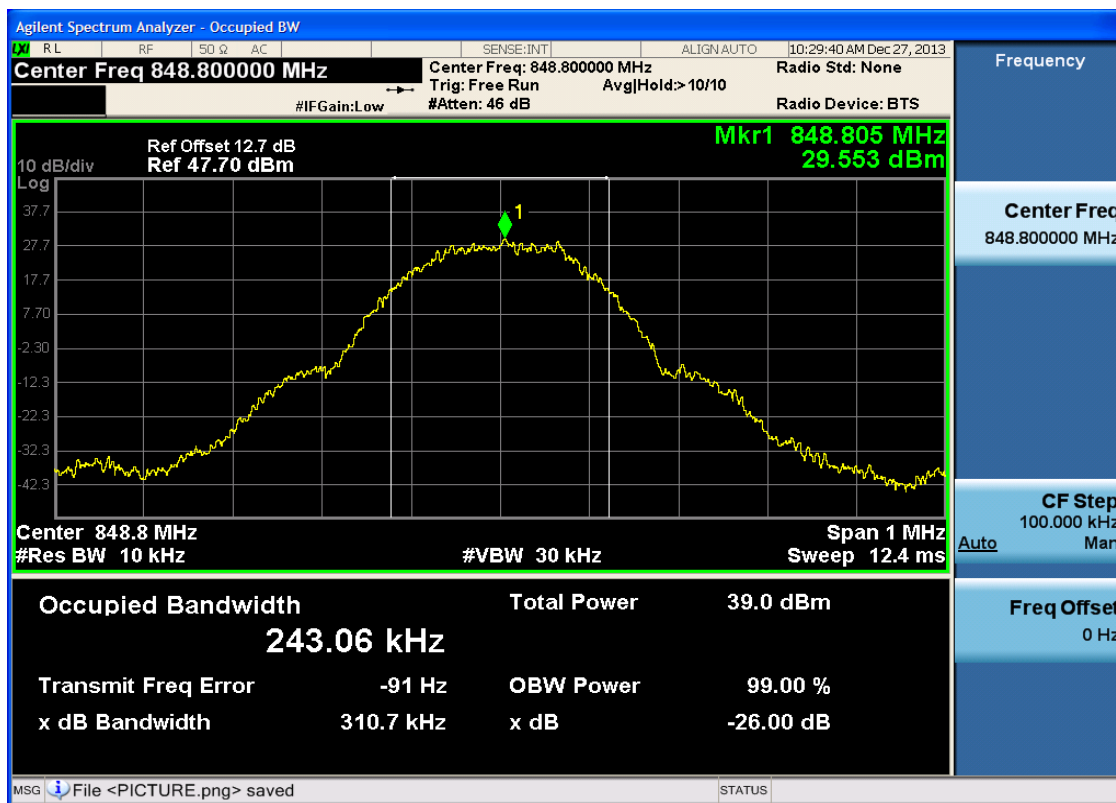


4.1.1.1.2 Test Channel = MCH





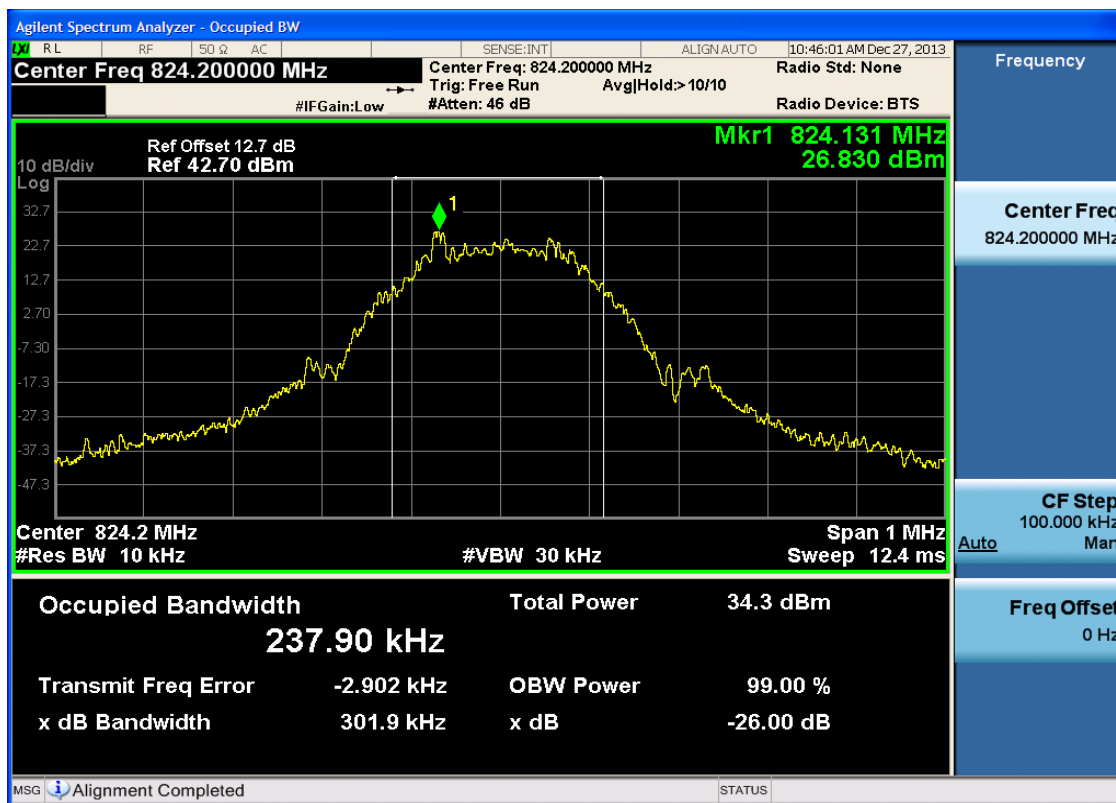
4.1.1.1.3 Test Channel = HCH



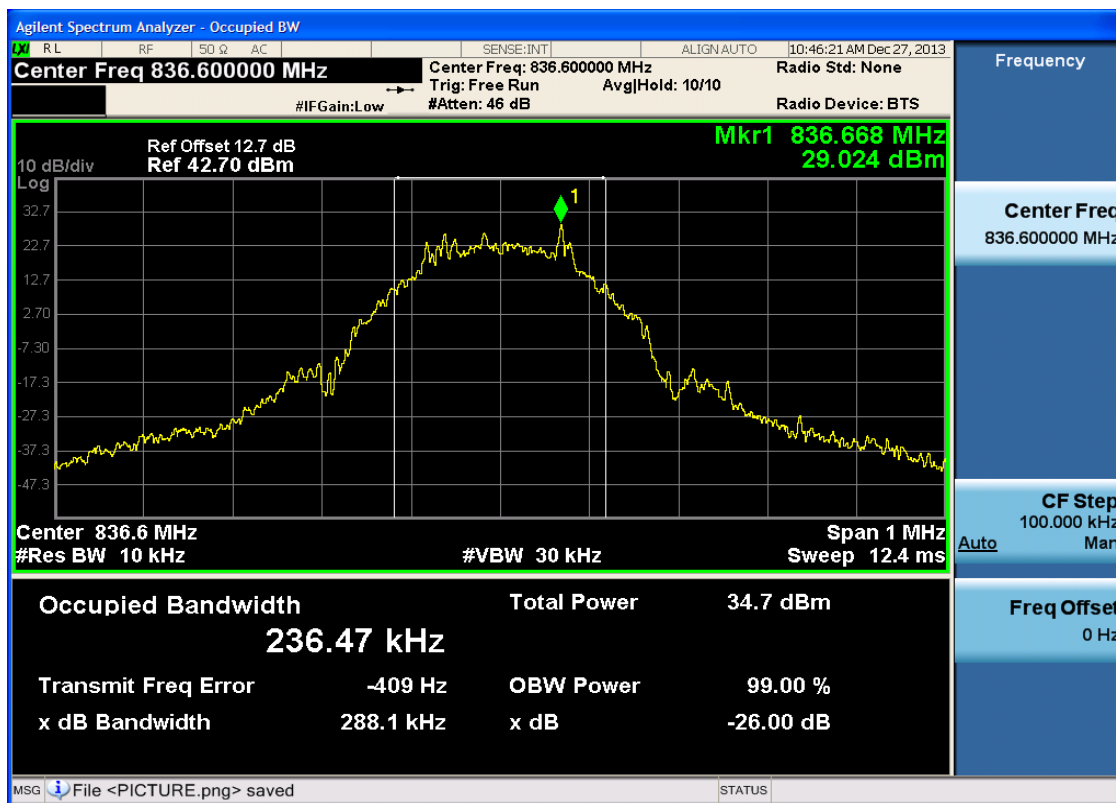


4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH

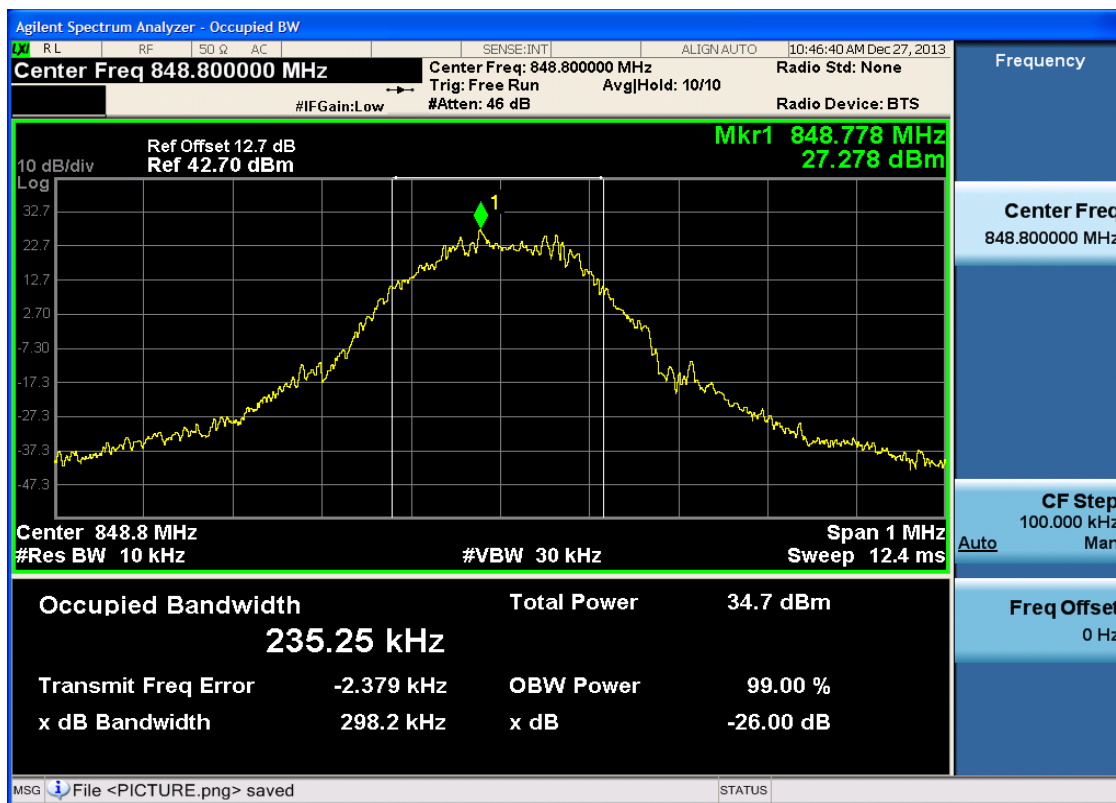


4.1.1.2.2 Test Channel = MCH





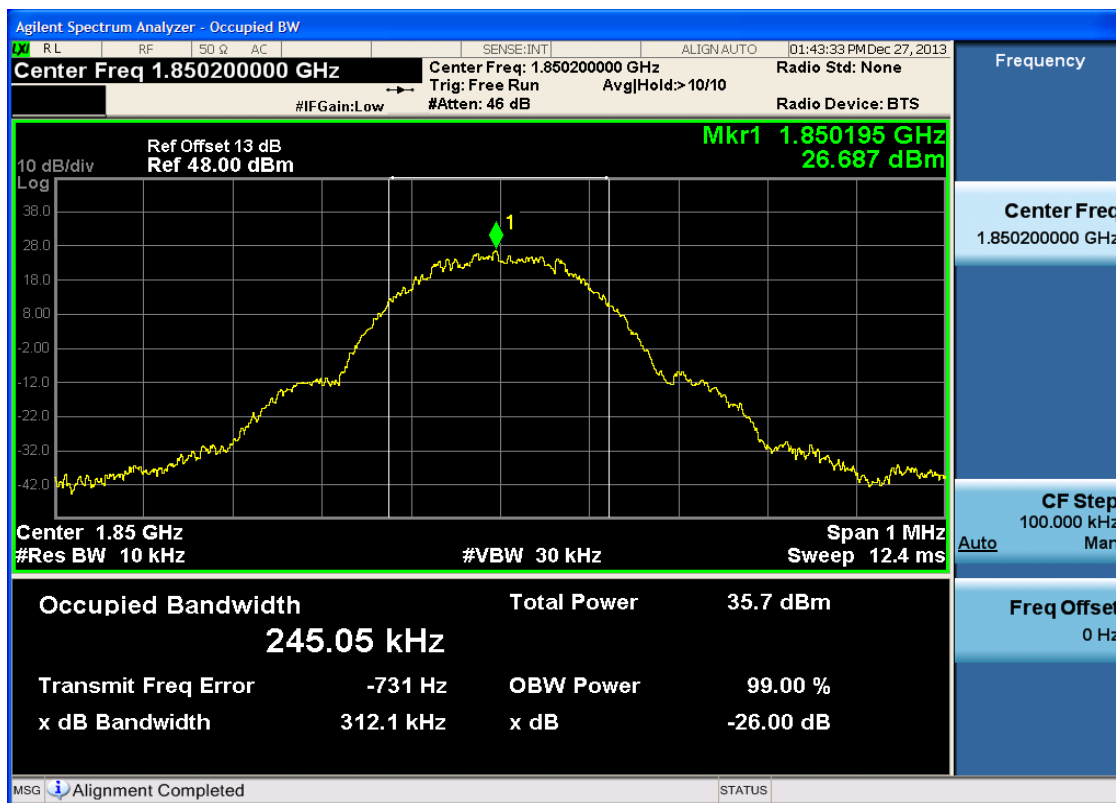
4.1.1.2.3 Test Channel = HCH



4.1.2 Test Band = GSM1900

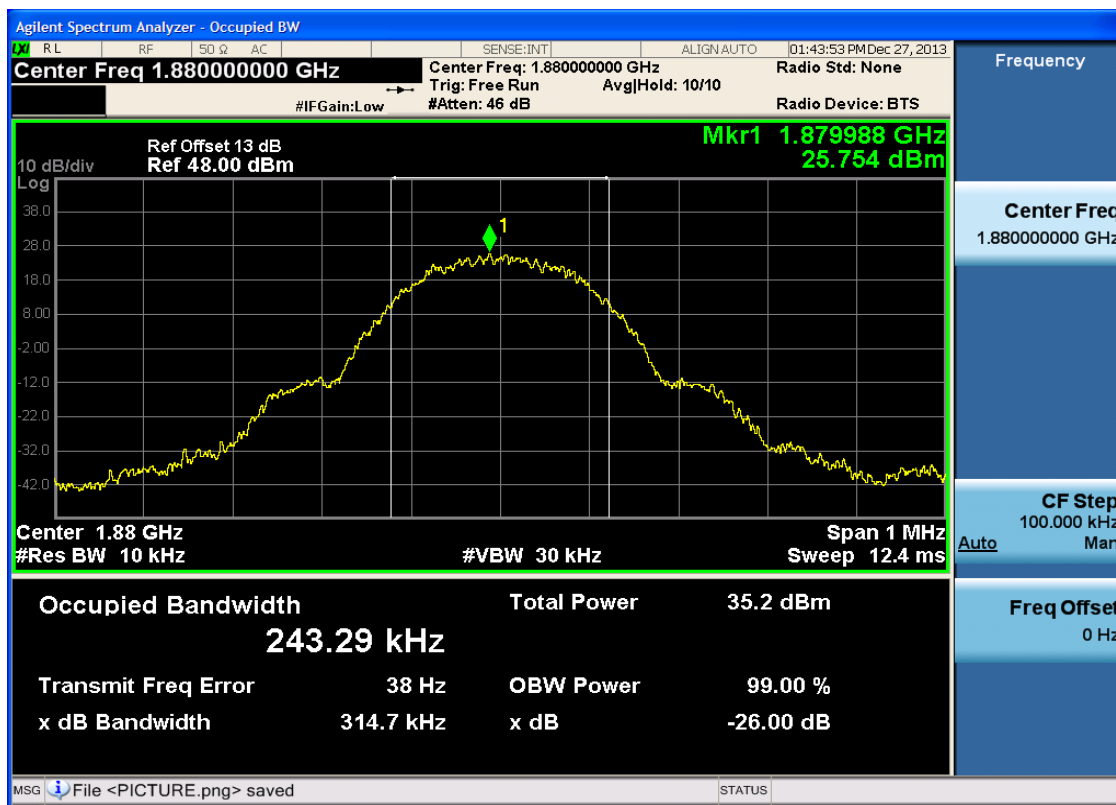
4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH

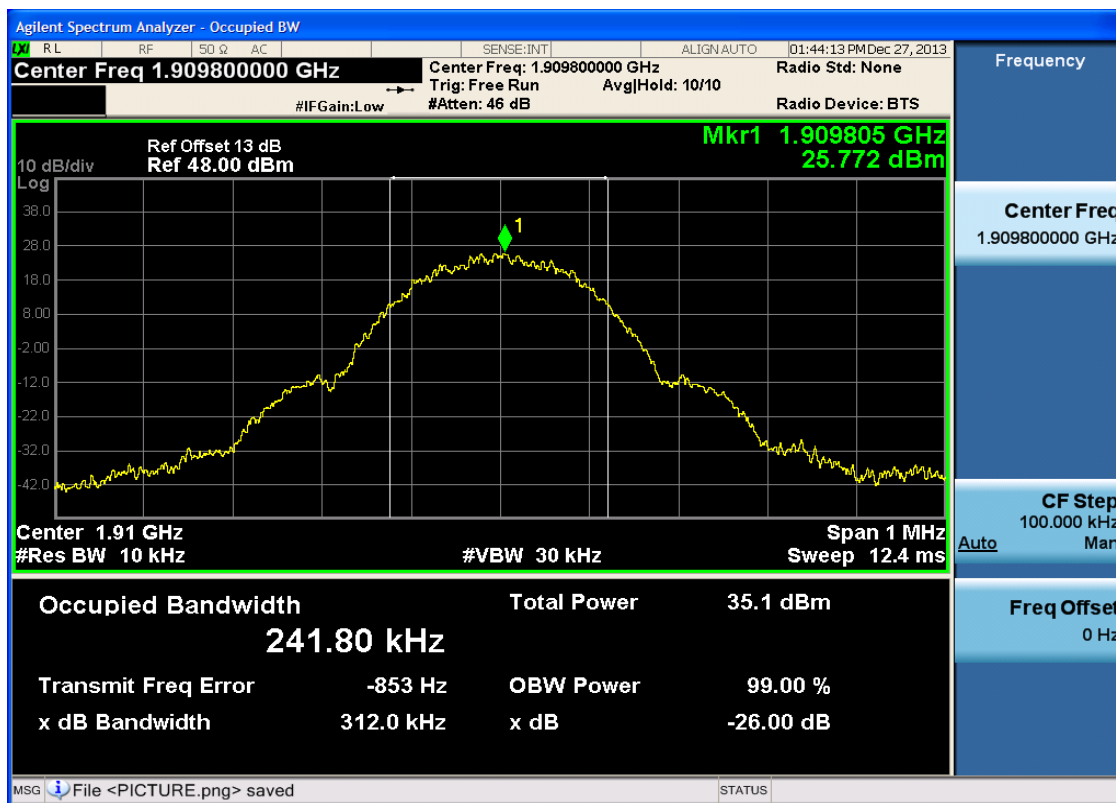




4.1.2.1.2 Test Channel = MCH



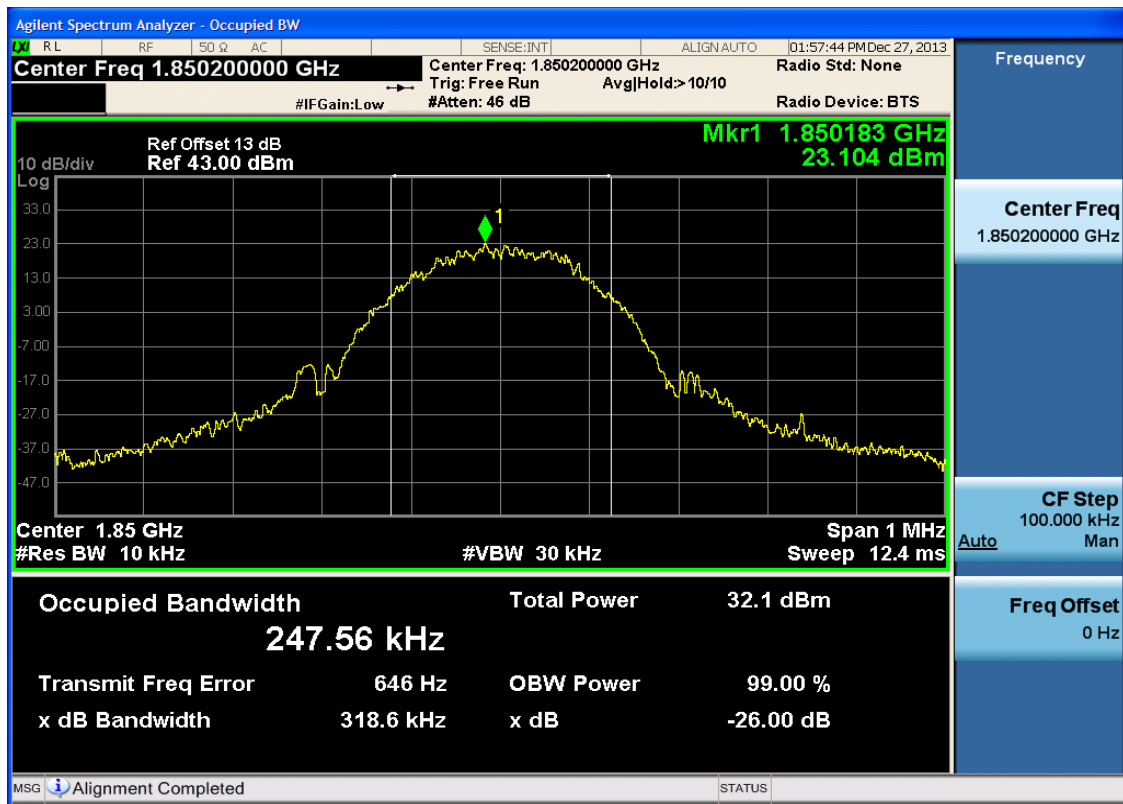
4.1.2.1.3 Test Channel = HCH





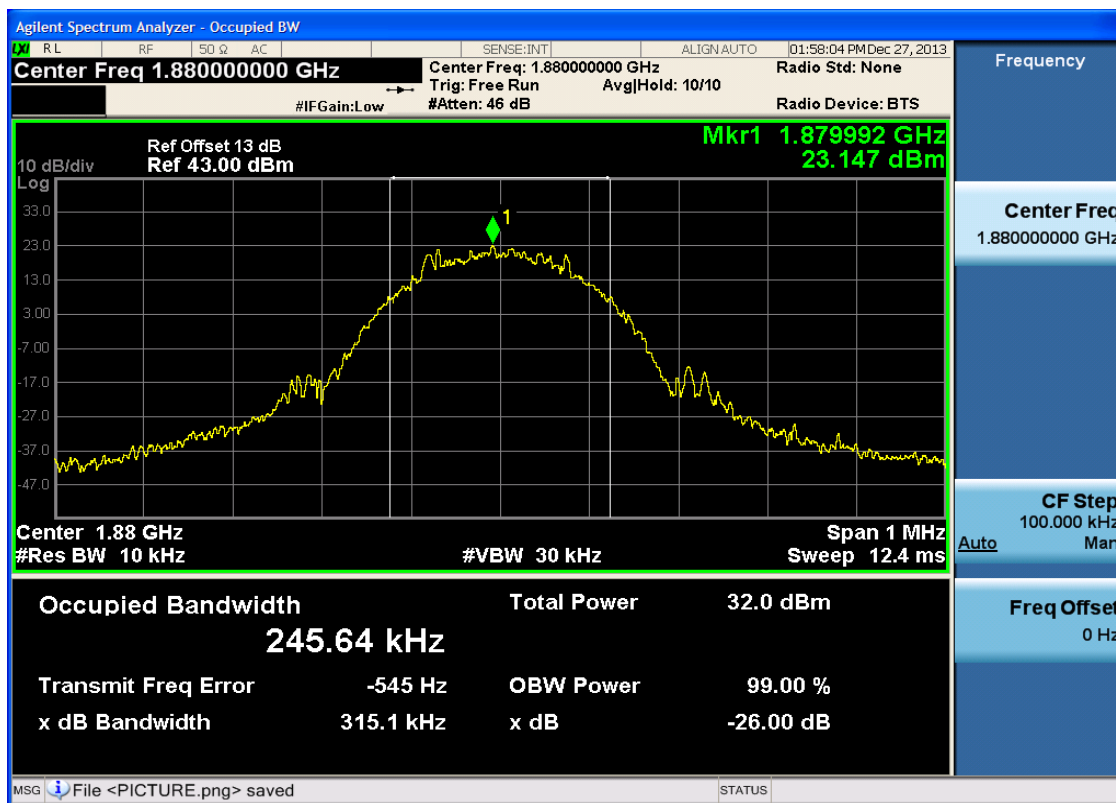
4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



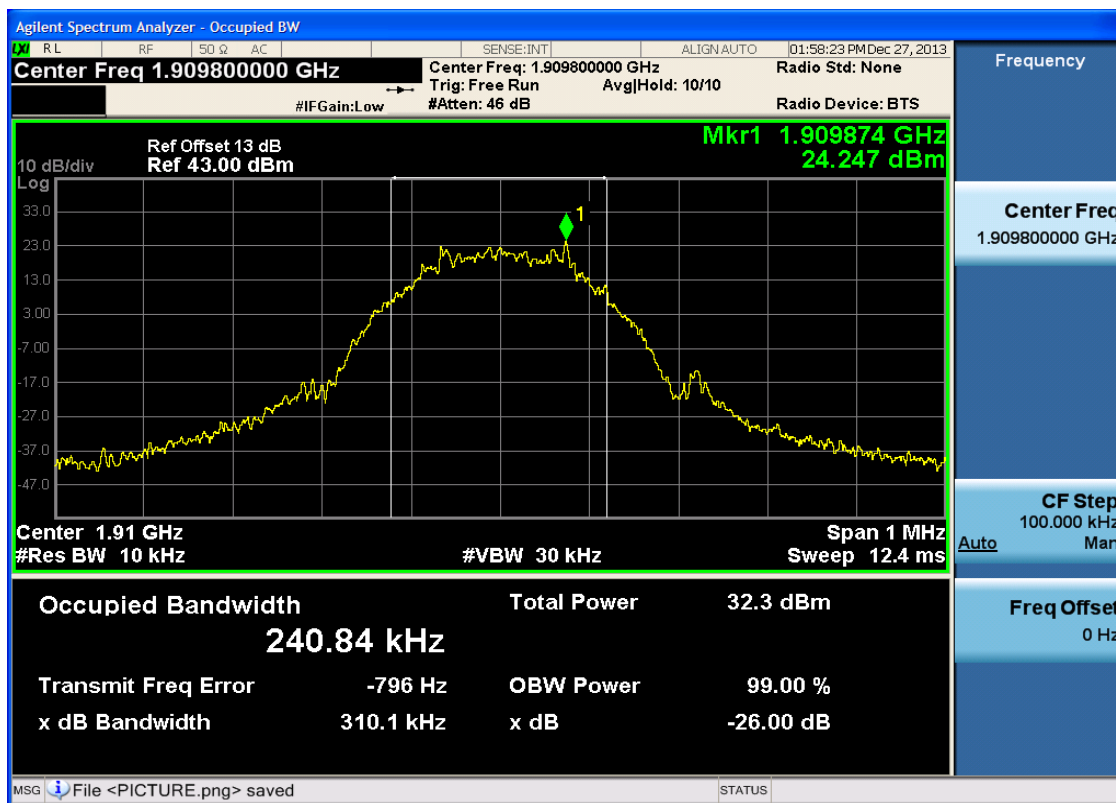


4.1.2.2.2 Test Channel = MCH





4.1.2.2.3 Test Channel = HCH

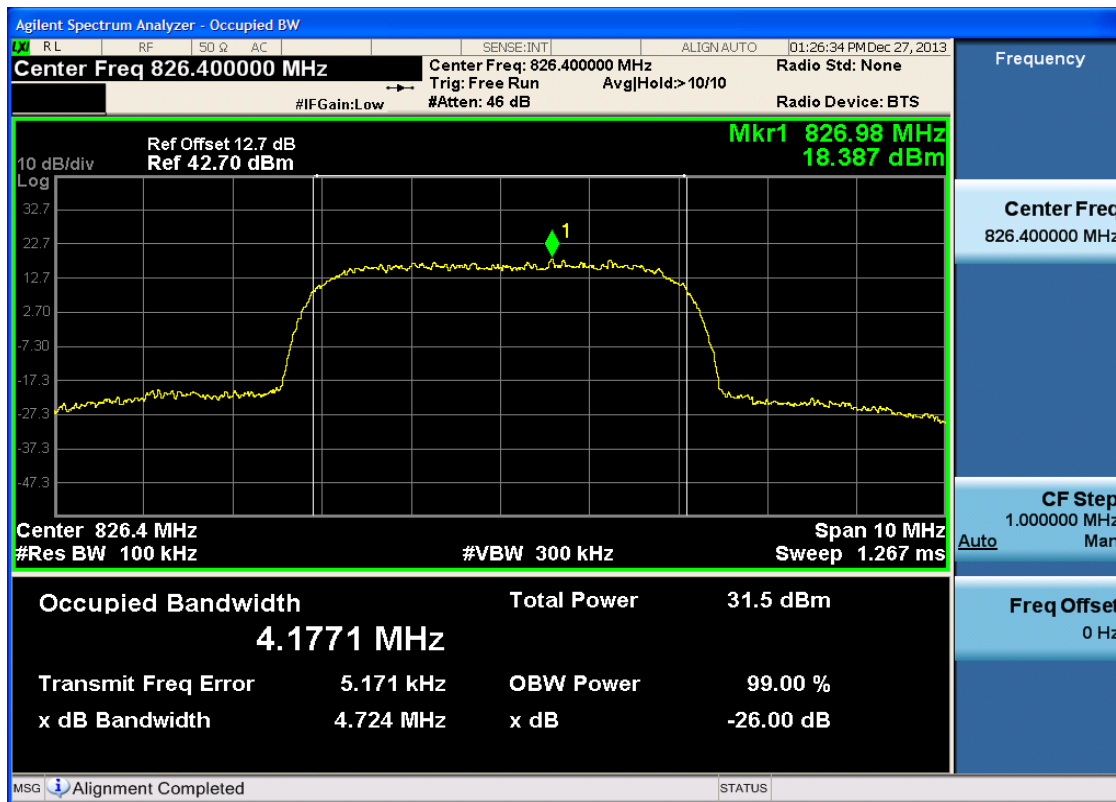


4.2 For UMTS

4.2.1 Test Band = WCDMA850

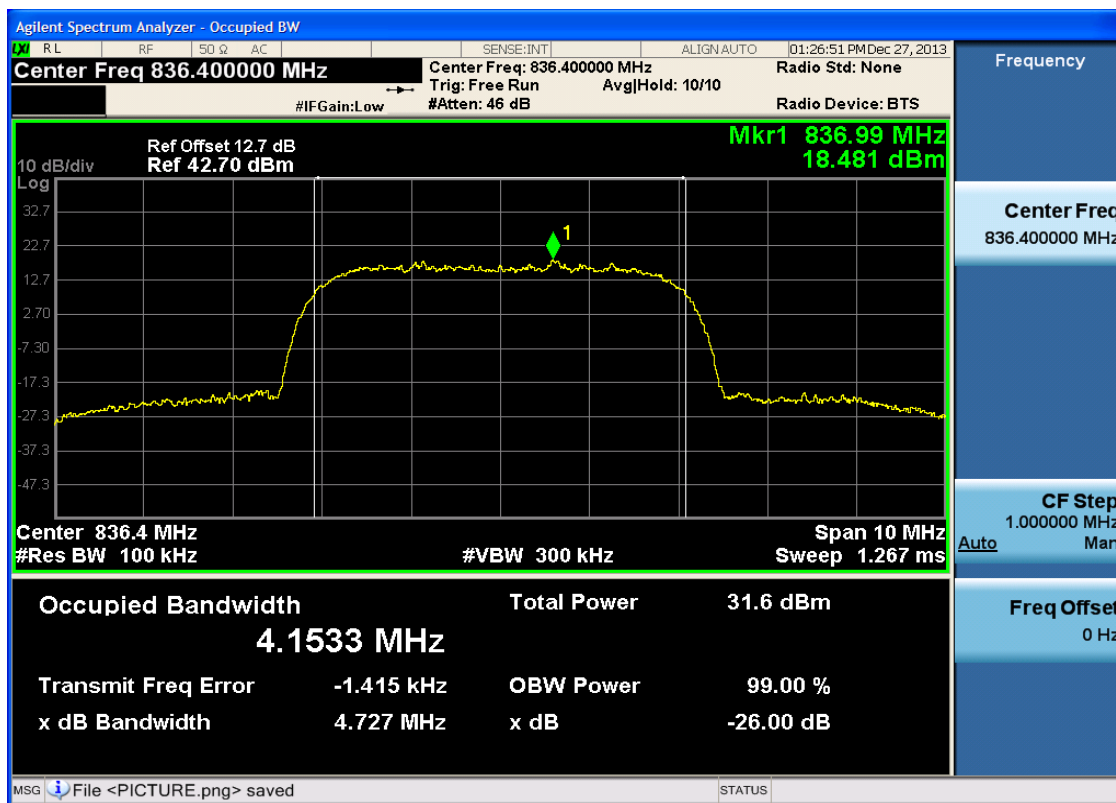
4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



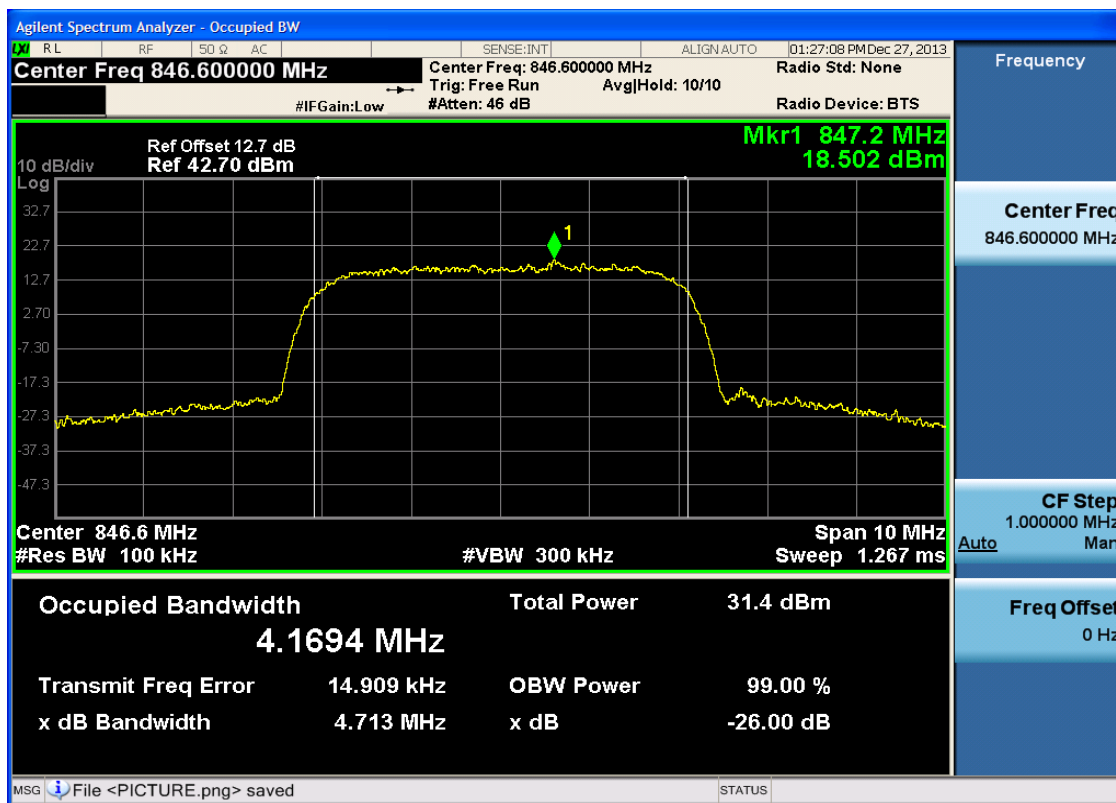


4.2.1.1.2 Test Channel = MCH





4.2.1.1.3 Test Channel = HCH

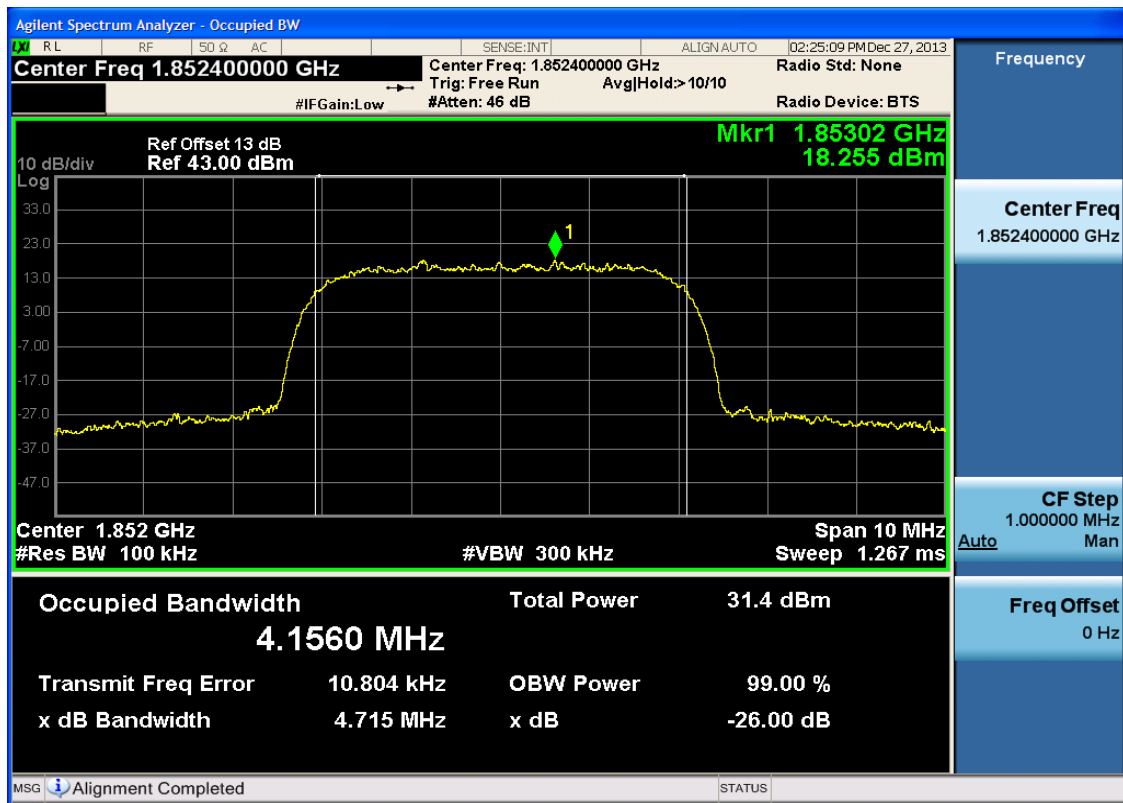




4.2.2 Test Band = WCDMA1900

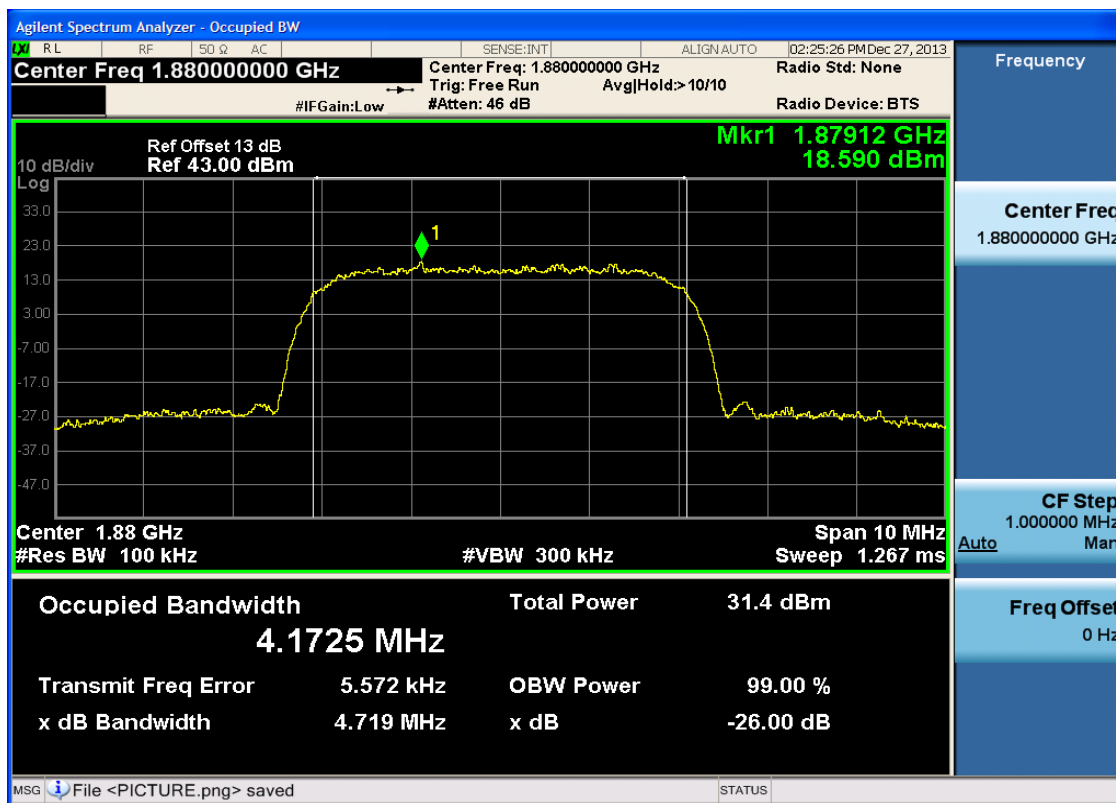
4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



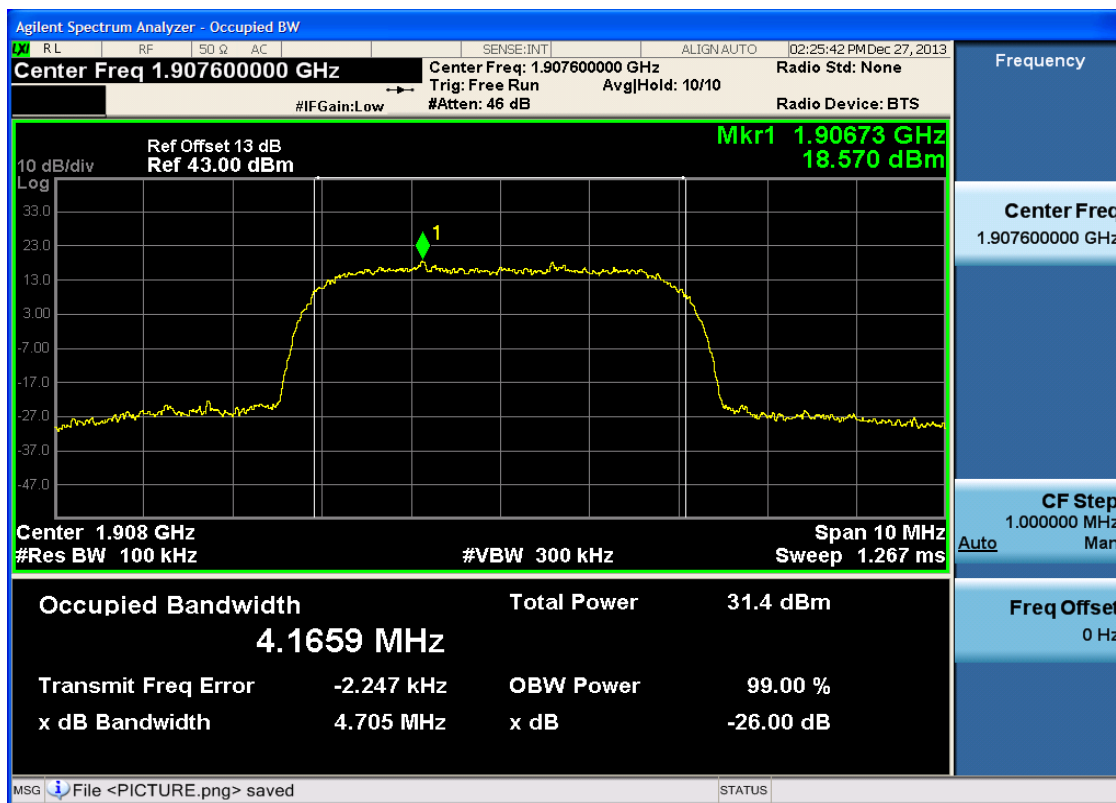


4.2.2.1.2 Test Channel = MCH





4.2.2.1.3 Test Channel = HCH



5Appendix_E: Band Edges Compliance

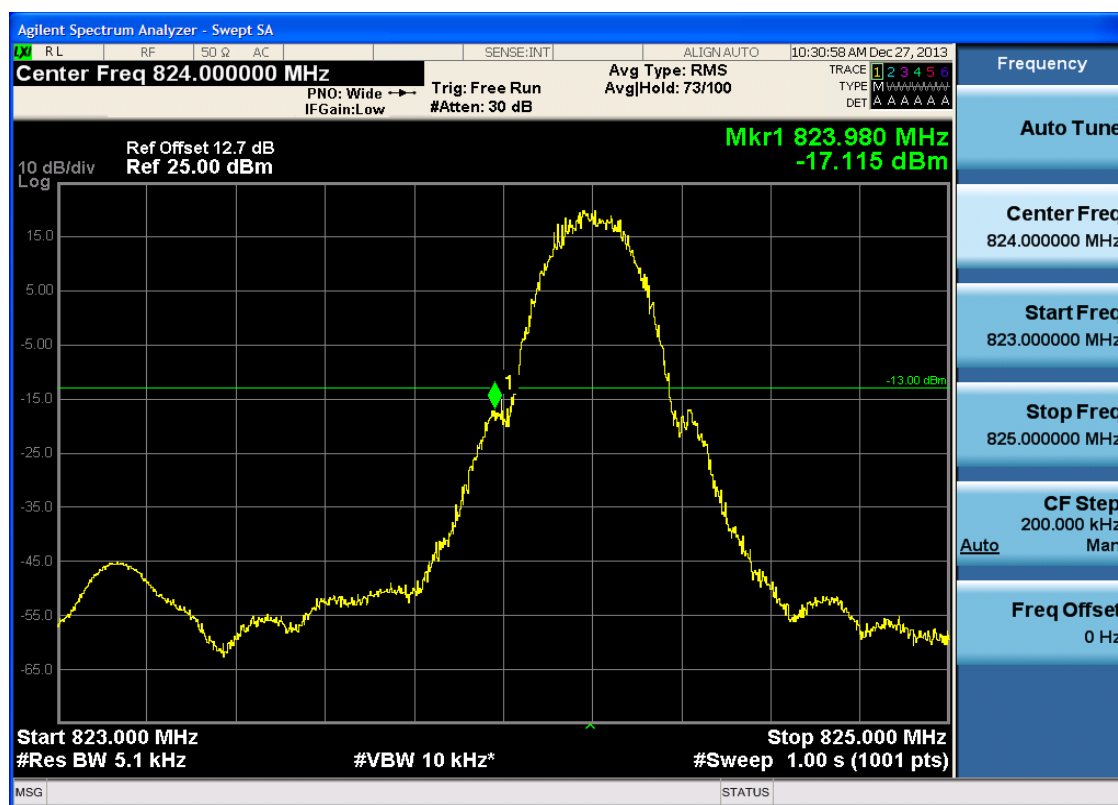
Part I - Test Plots

5.1 For GSM

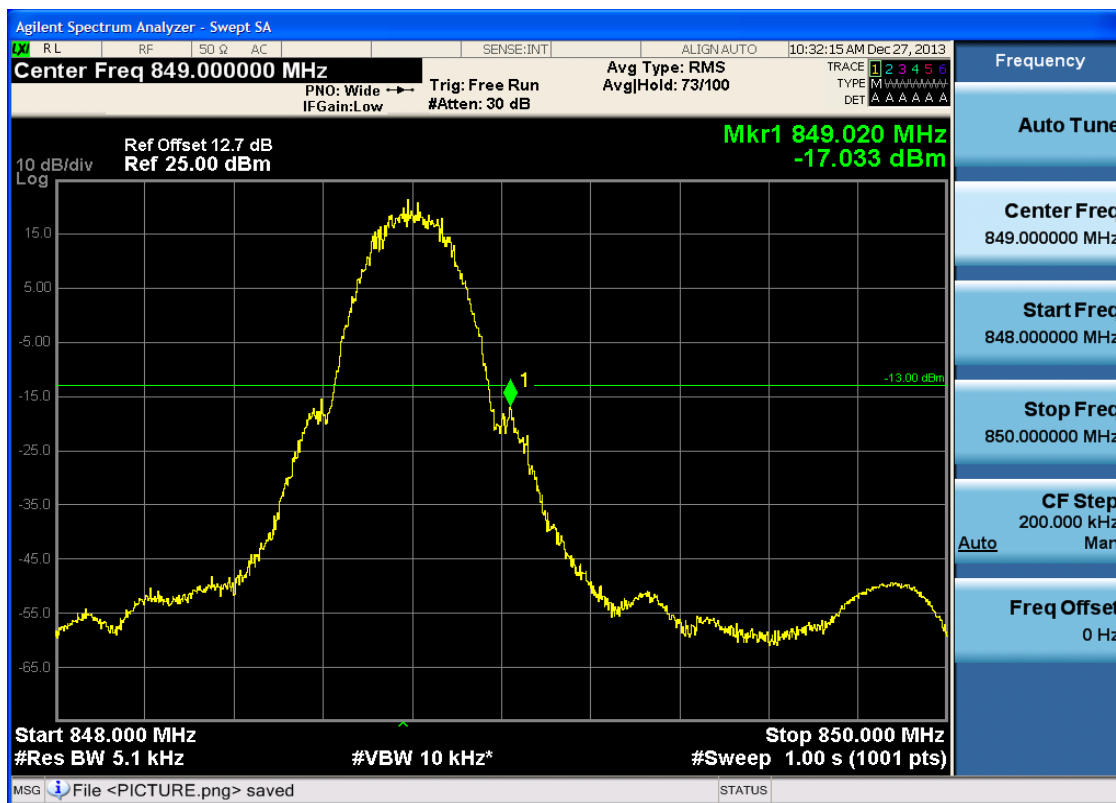
5.1.1 Test Band = GSM850

5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH

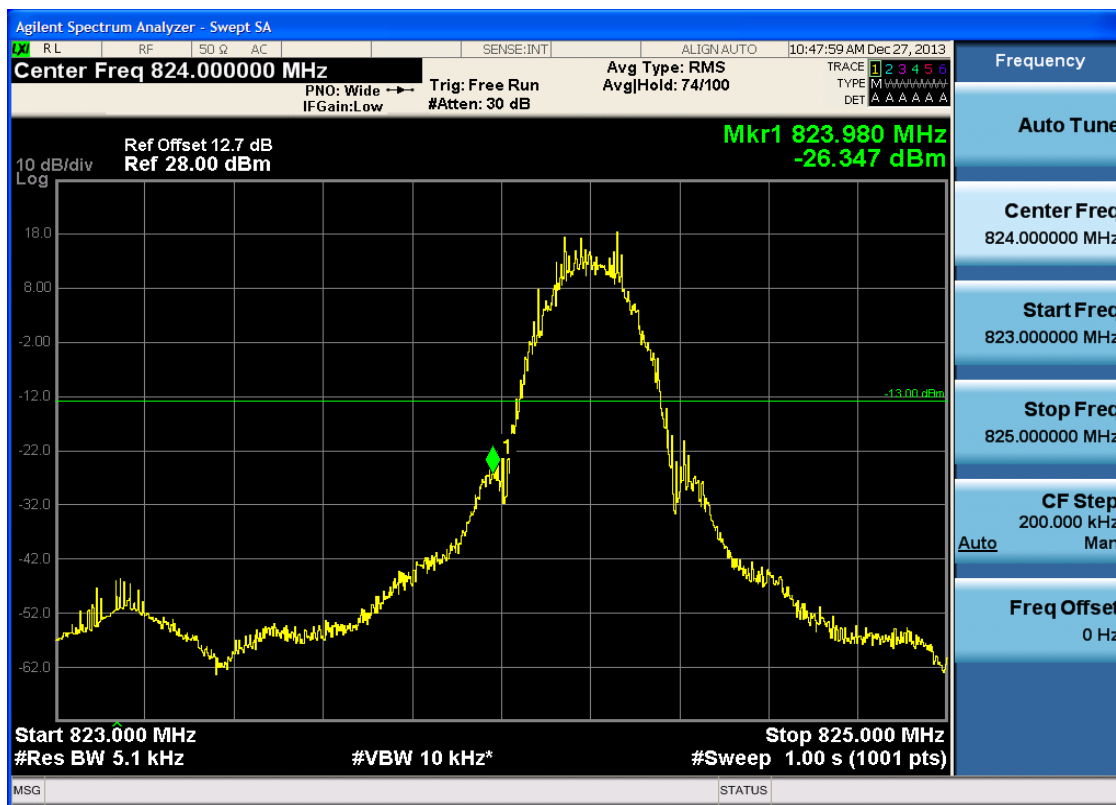


5.1.1.1.2 Test Channel = HCH

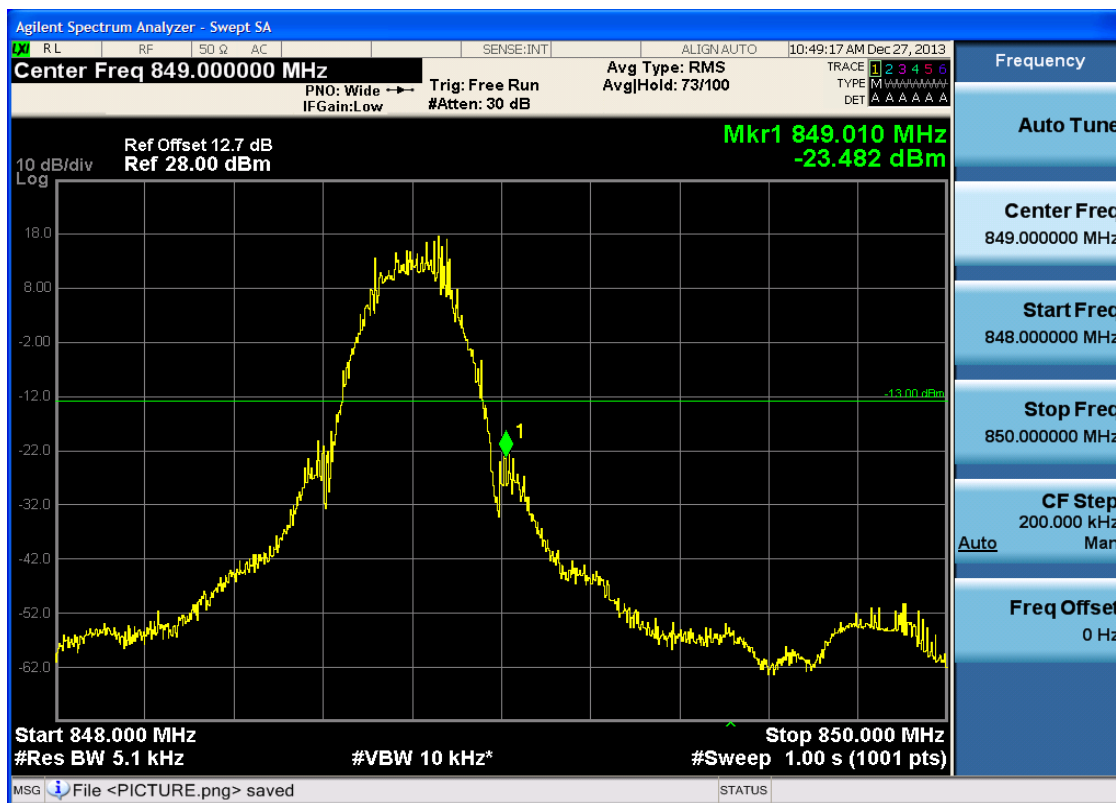


5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH



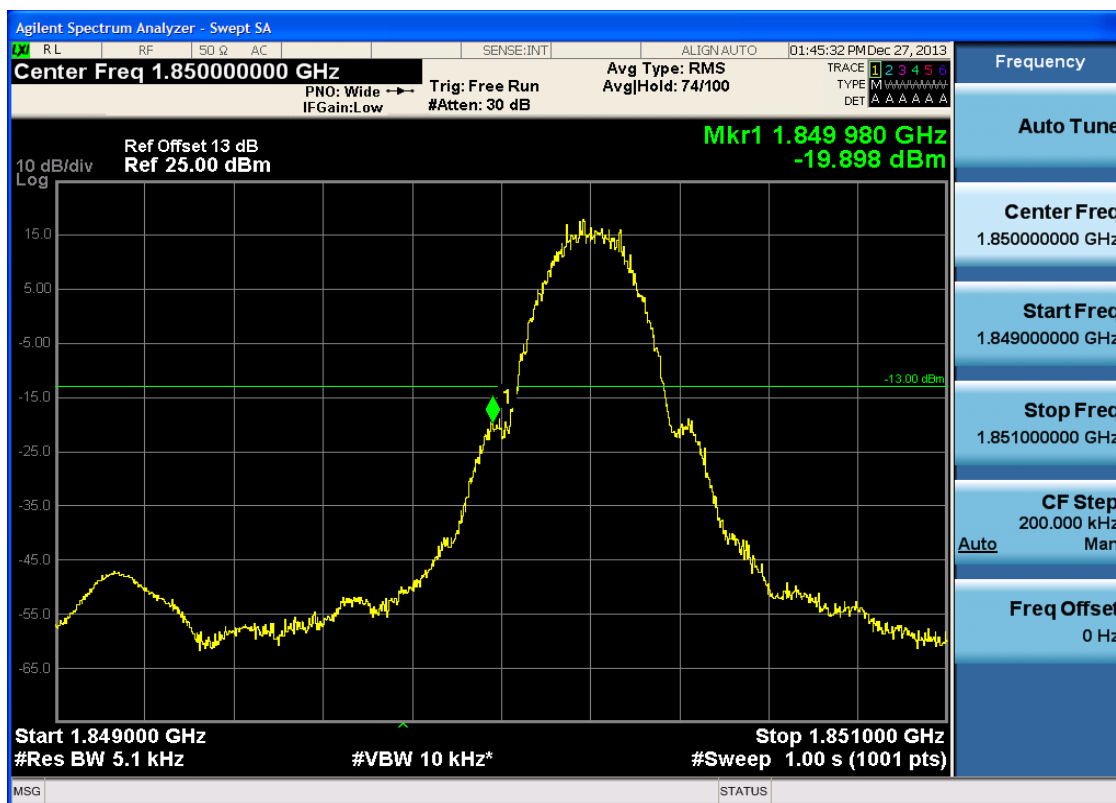
5.1.1.2.2 Test Channel = HCH



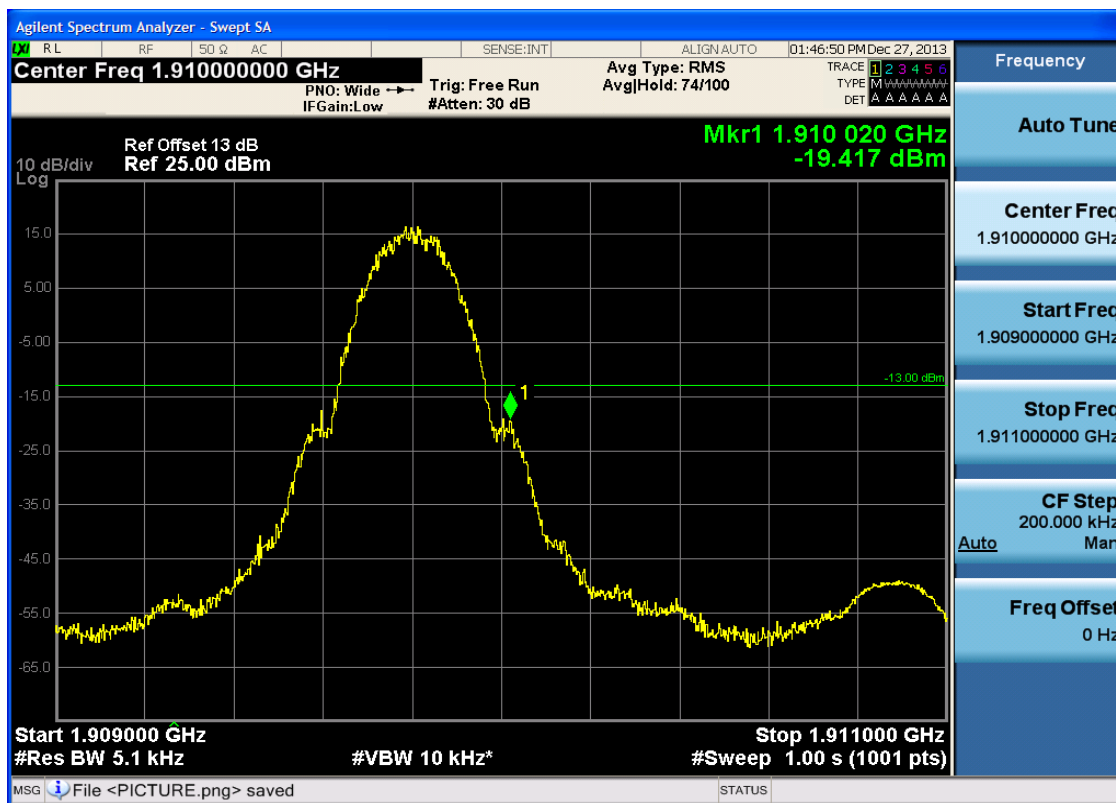
5.1.2 Test Band = GSM1900

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH

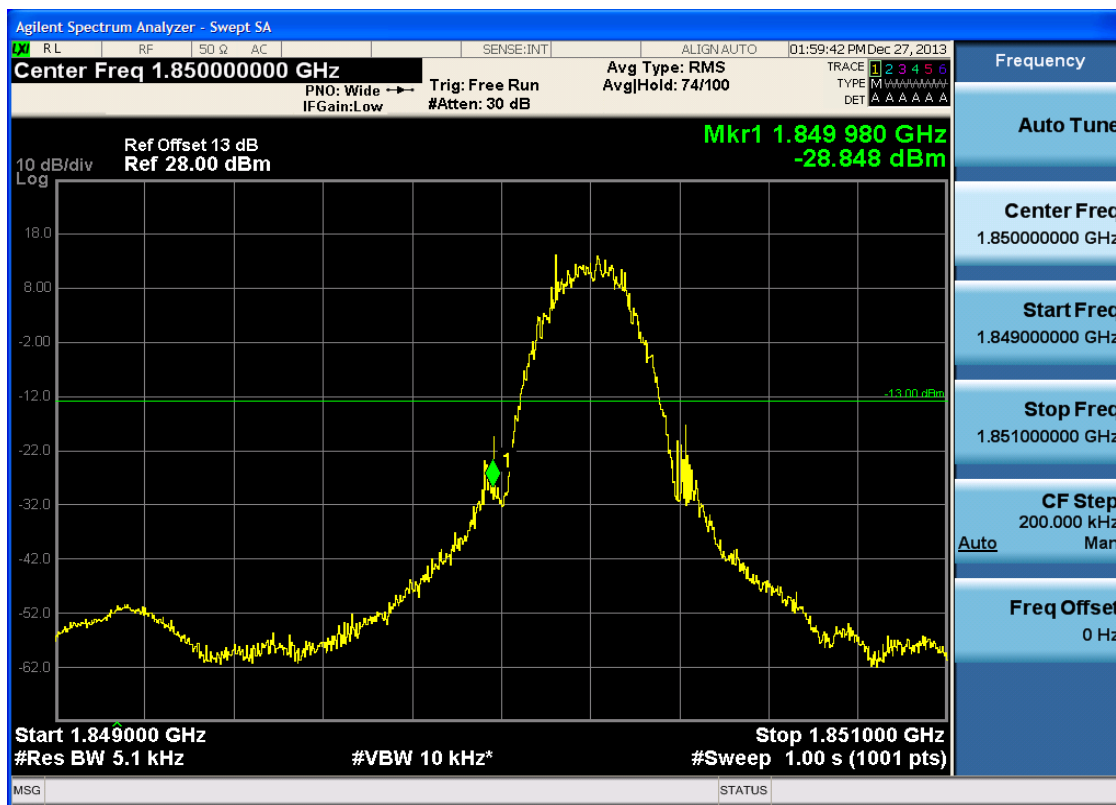


5.1.2.1.2 Test Channel = HCH

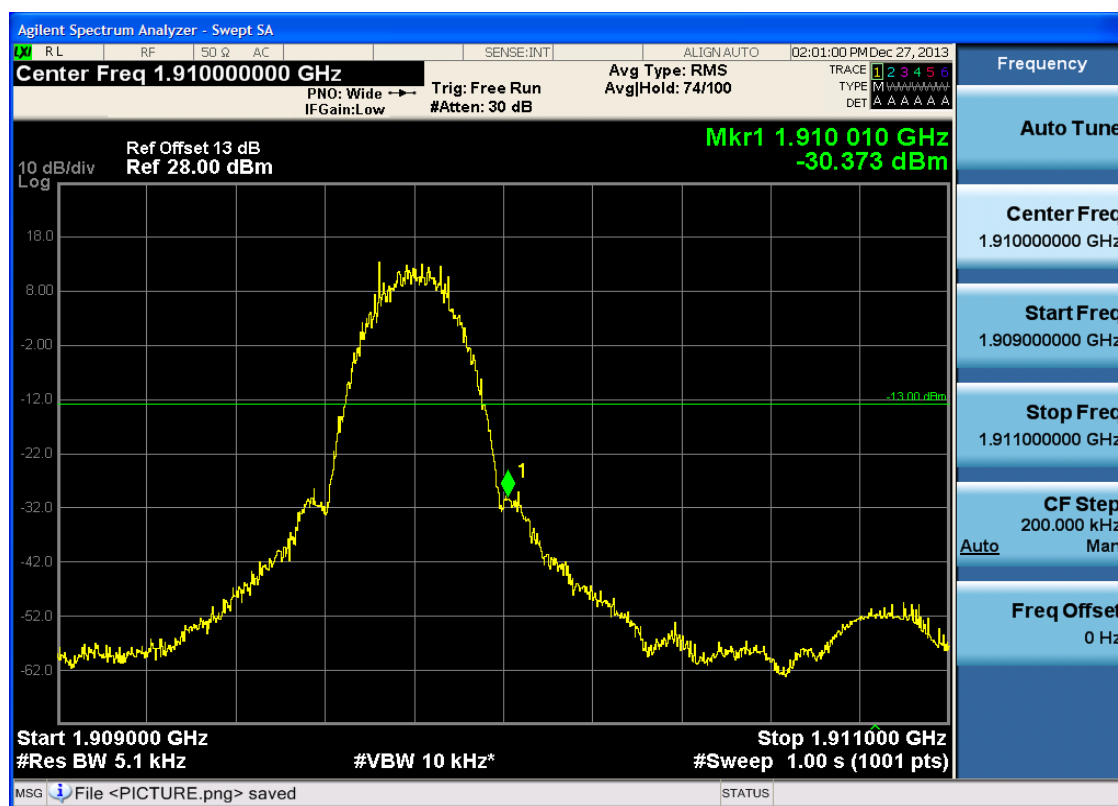


5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH



5.1.2.2.2 Test Channel = HCH

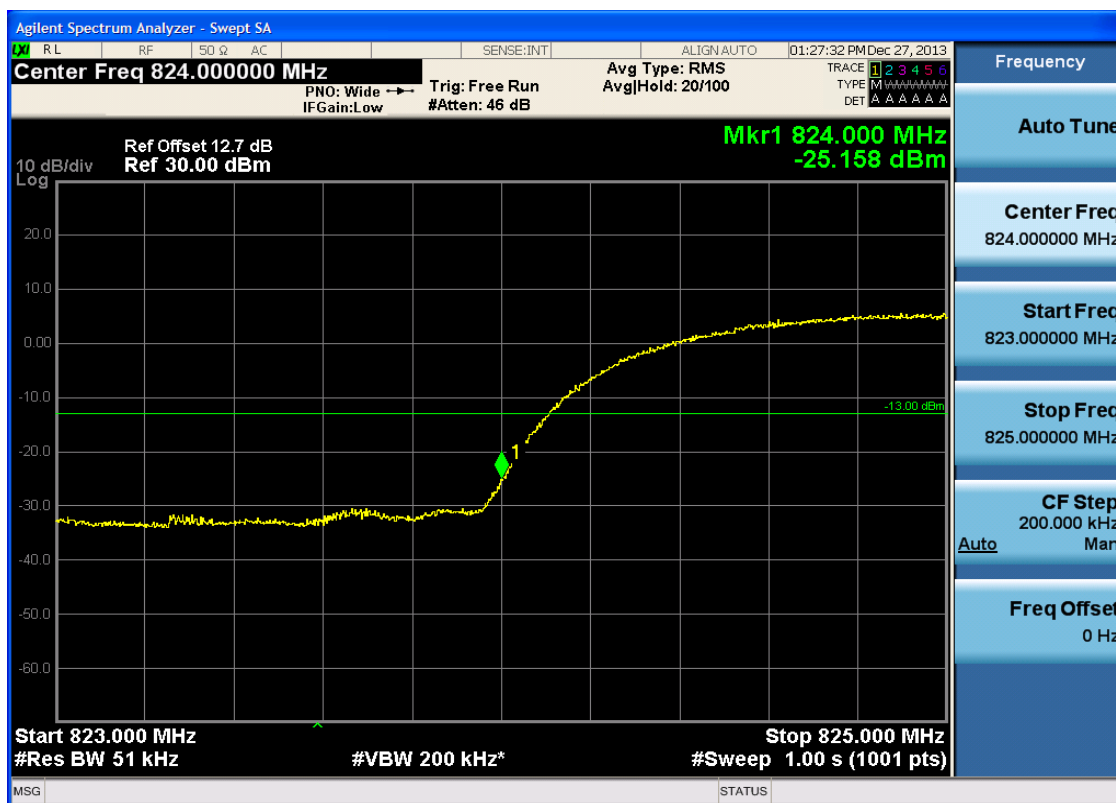


5.2 For UMTS

5.2.1 Test Band = WCDMA850

5.2.1.1 Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH



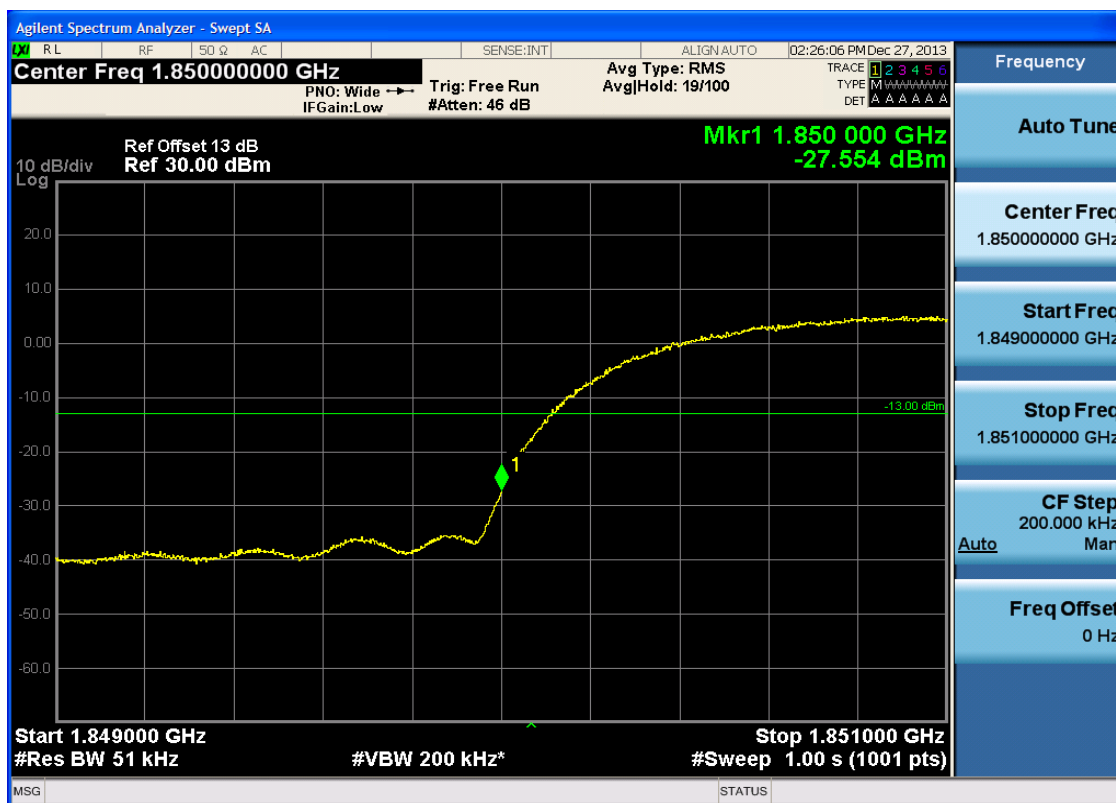
5.2.1.1.2 Test Channel = HCH



5.2.2 Test Band = WCDMA1900

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH



5.2.2.1.2 Test Channel = HCH



6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

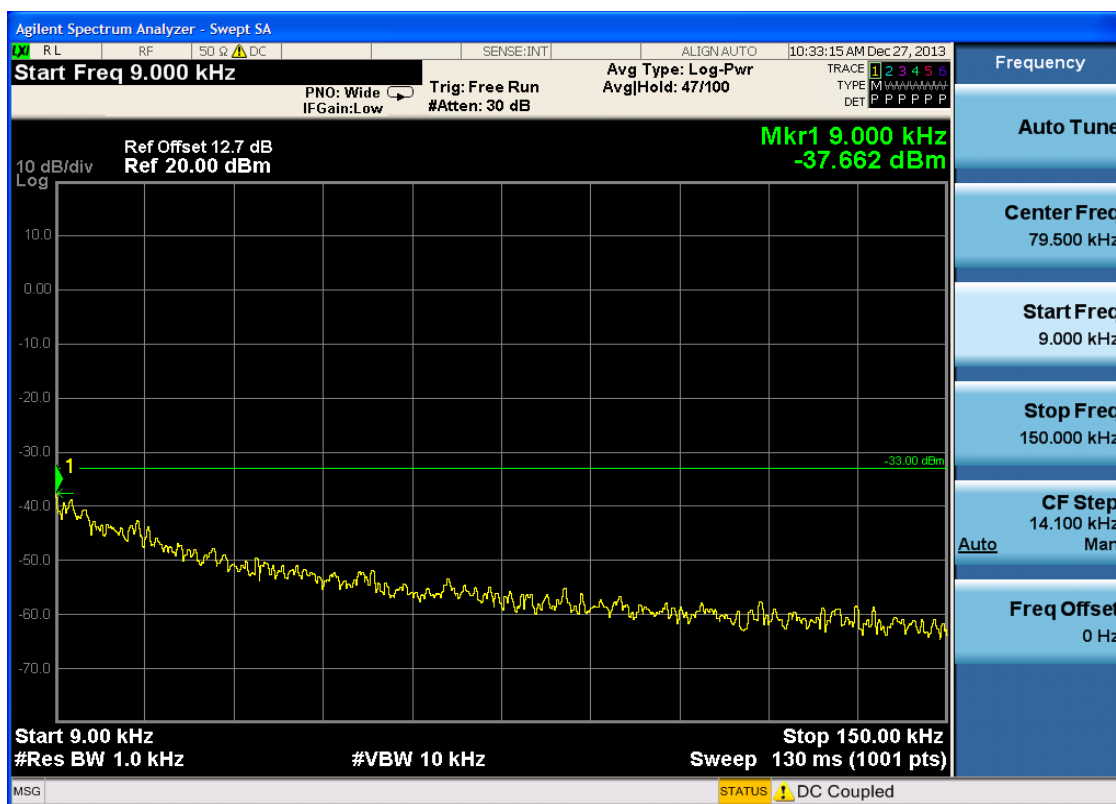
Part I - Test Plots

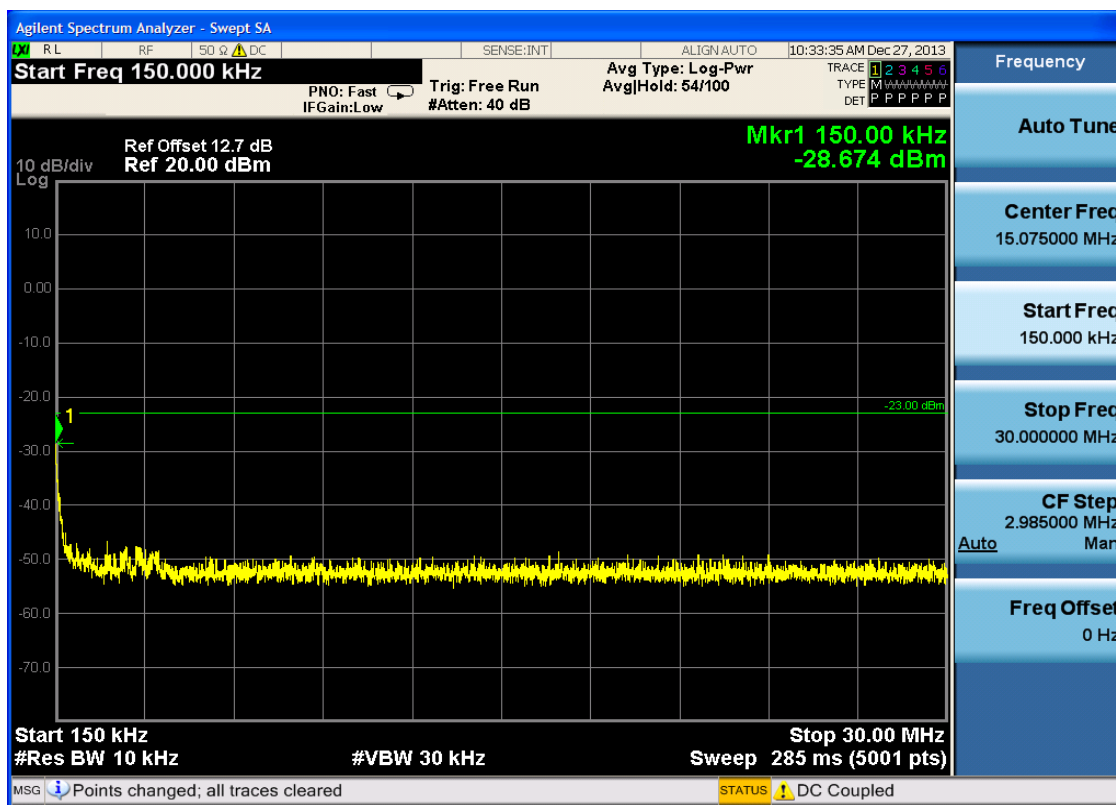
6.1 For GSM

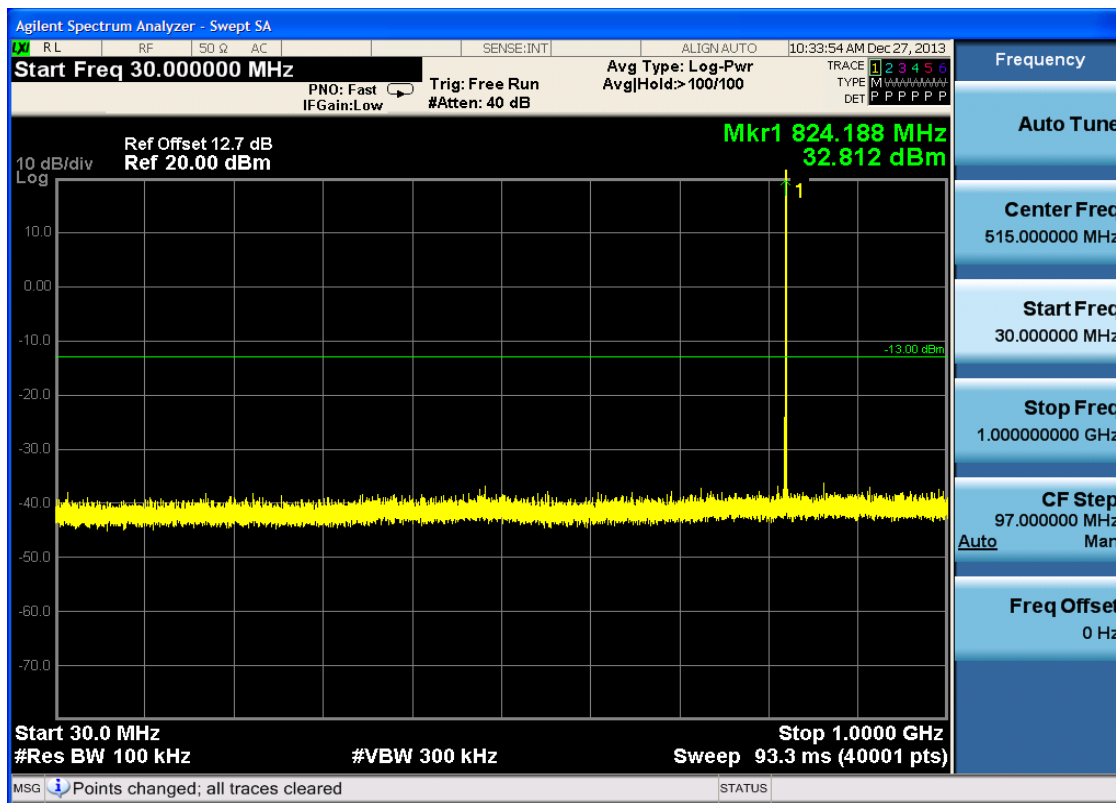
6.1.1 Test Band = GSM850

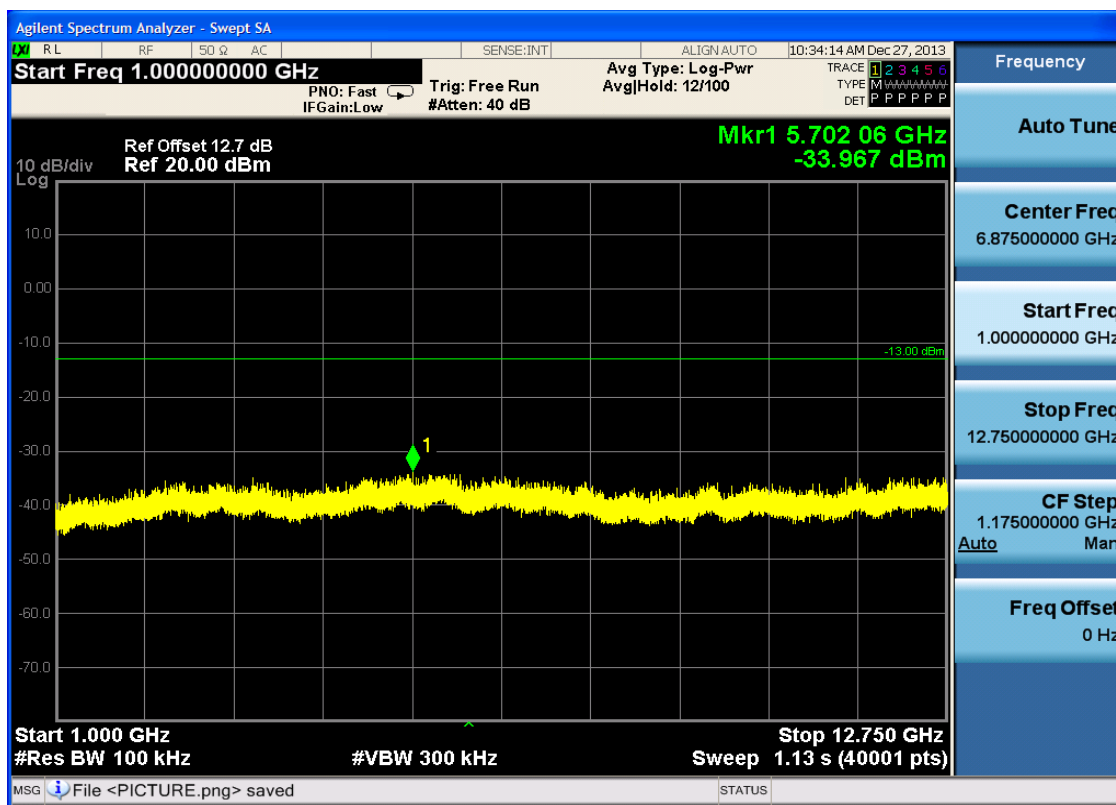
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



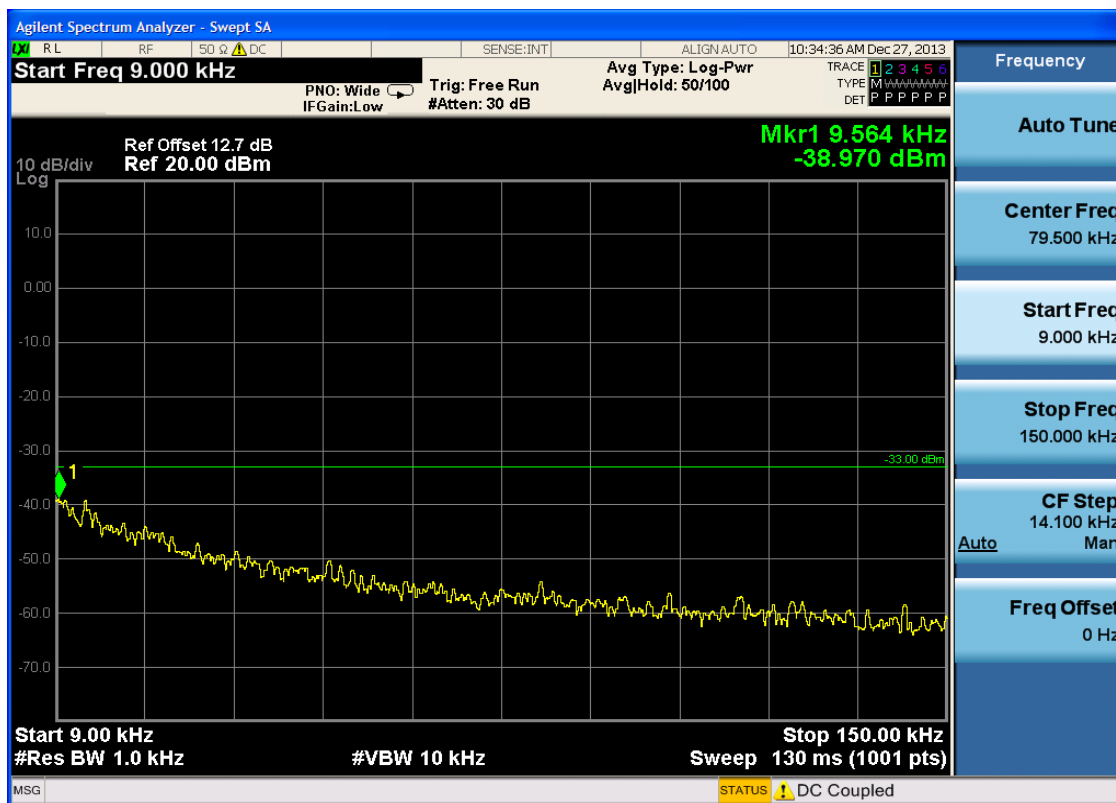


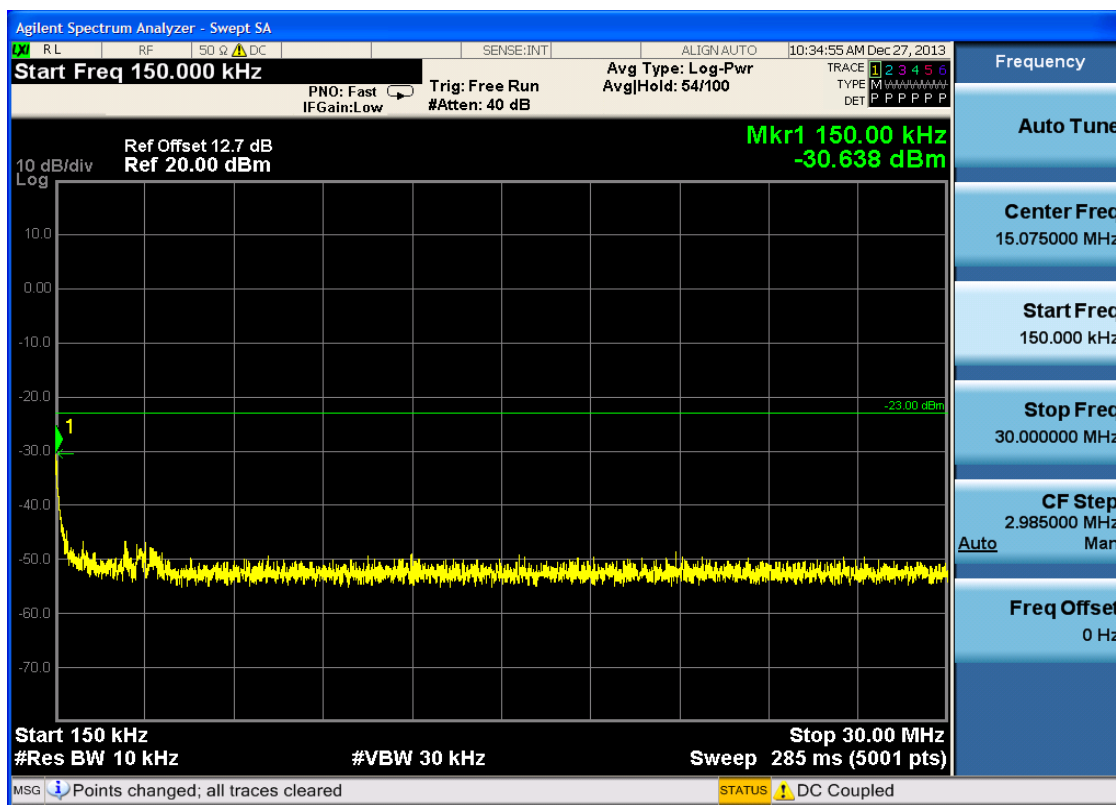


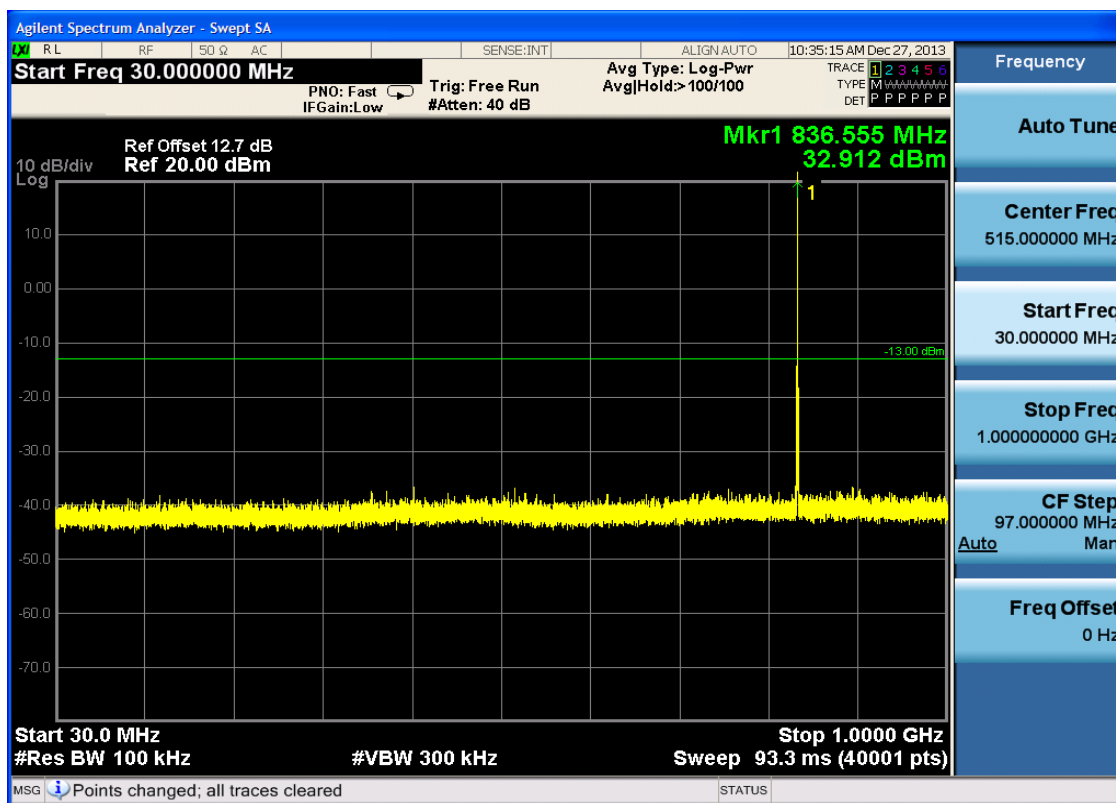


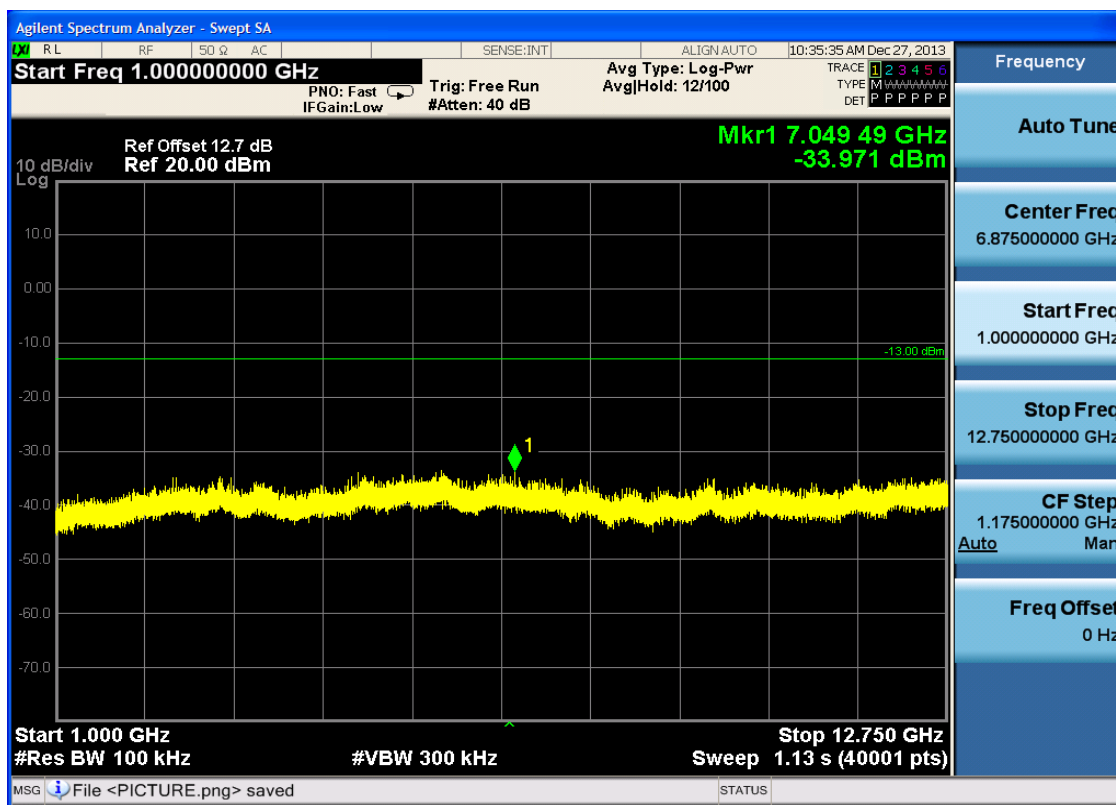


6.1.1.1.2 Test Channel = MCH

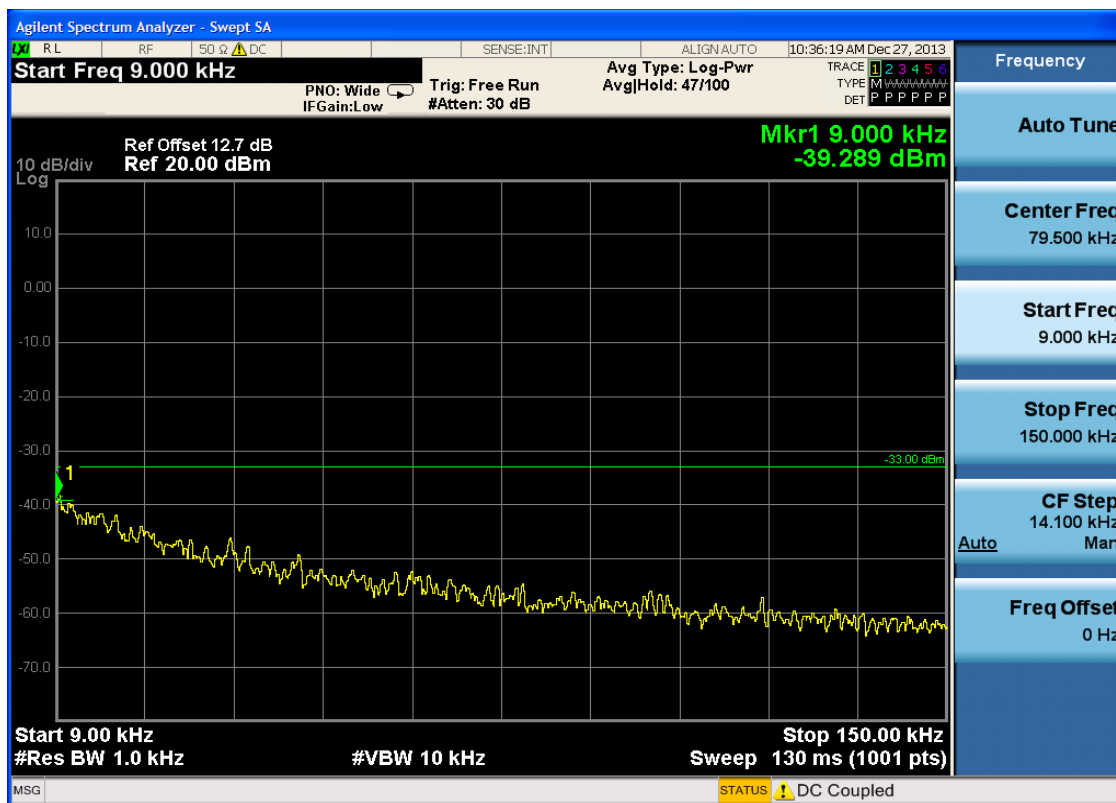


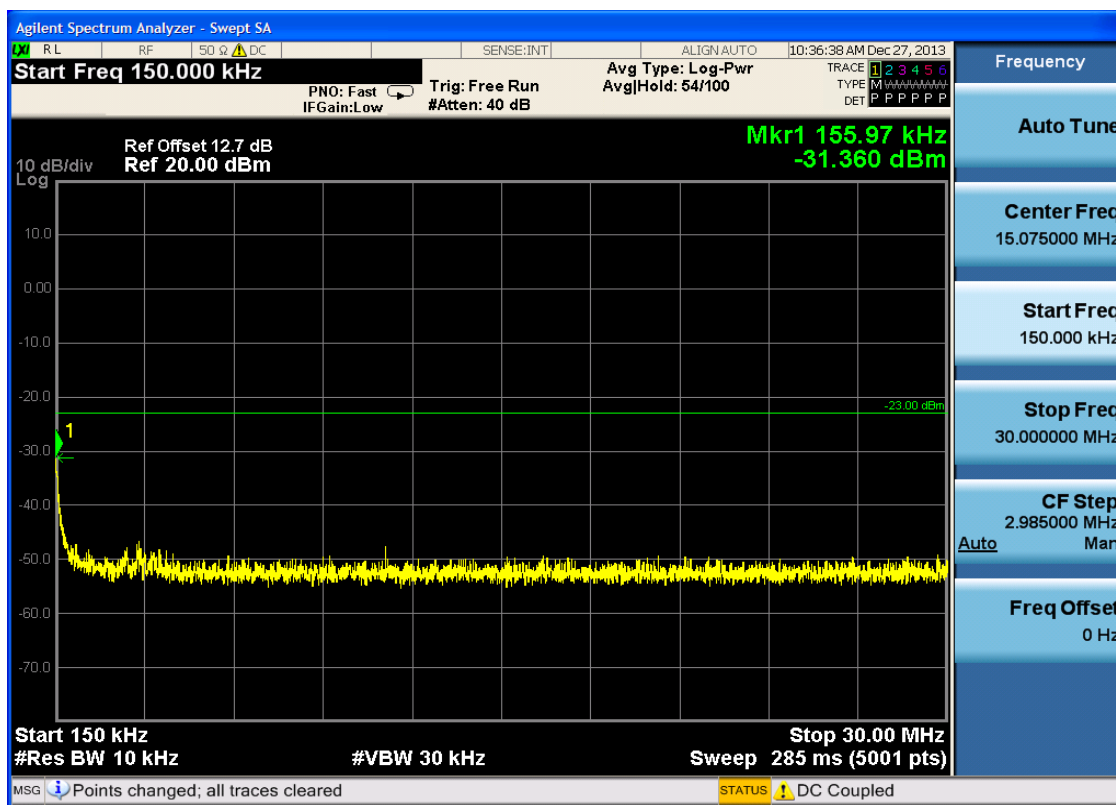


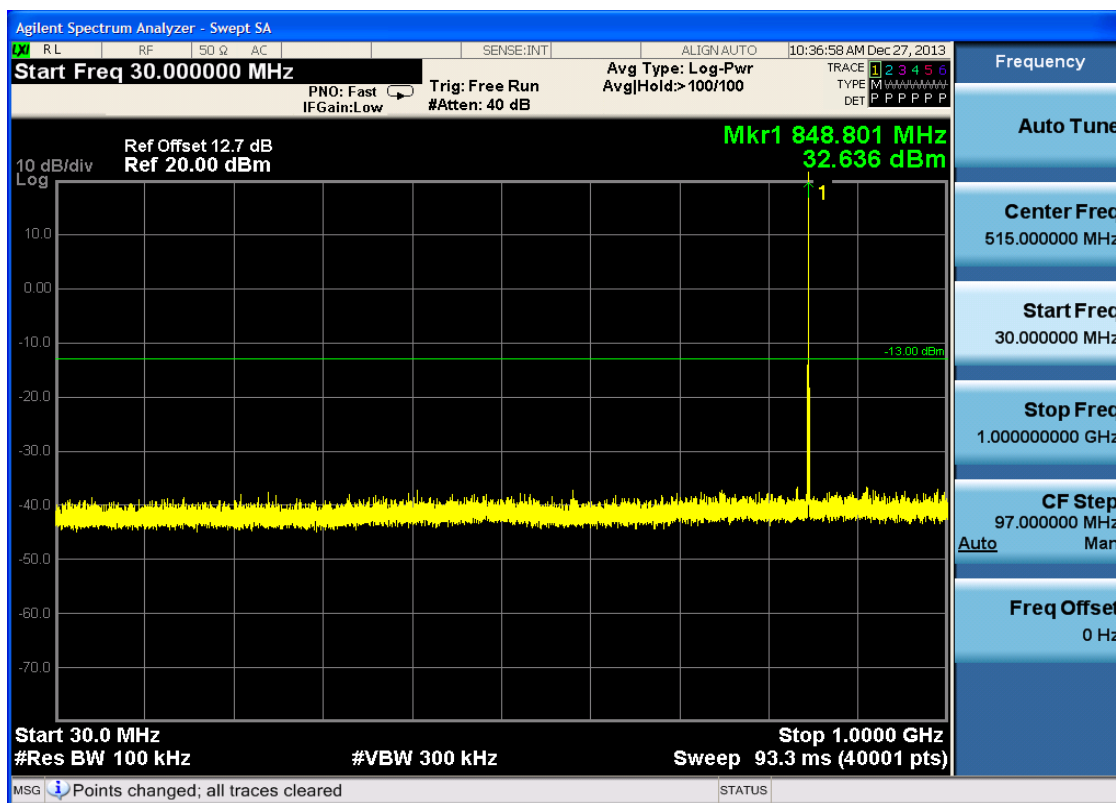


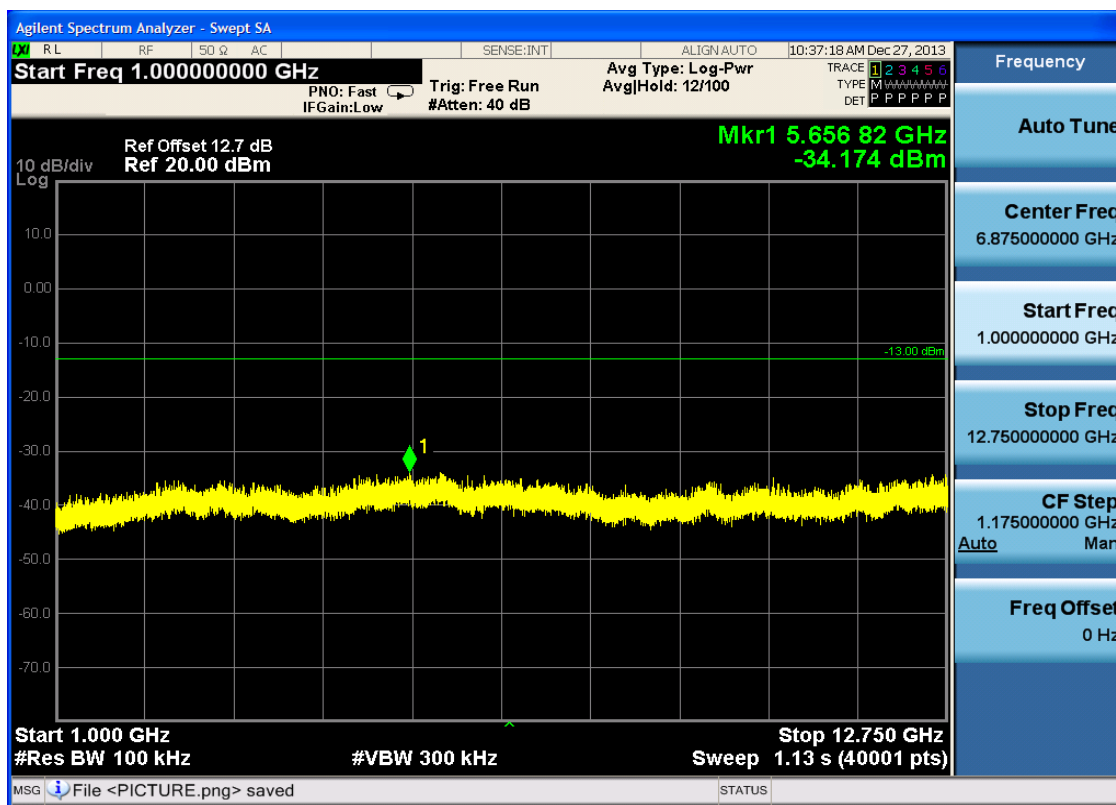


6.1.1.1.3 Test Channel = HCH



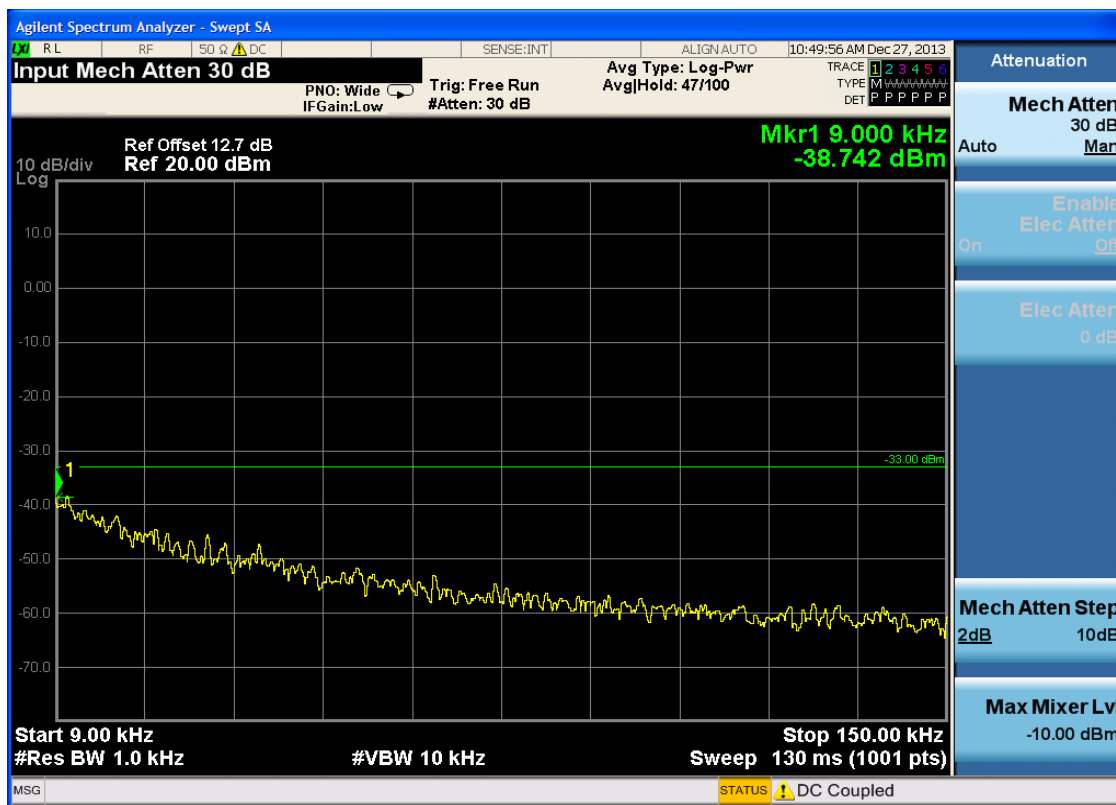


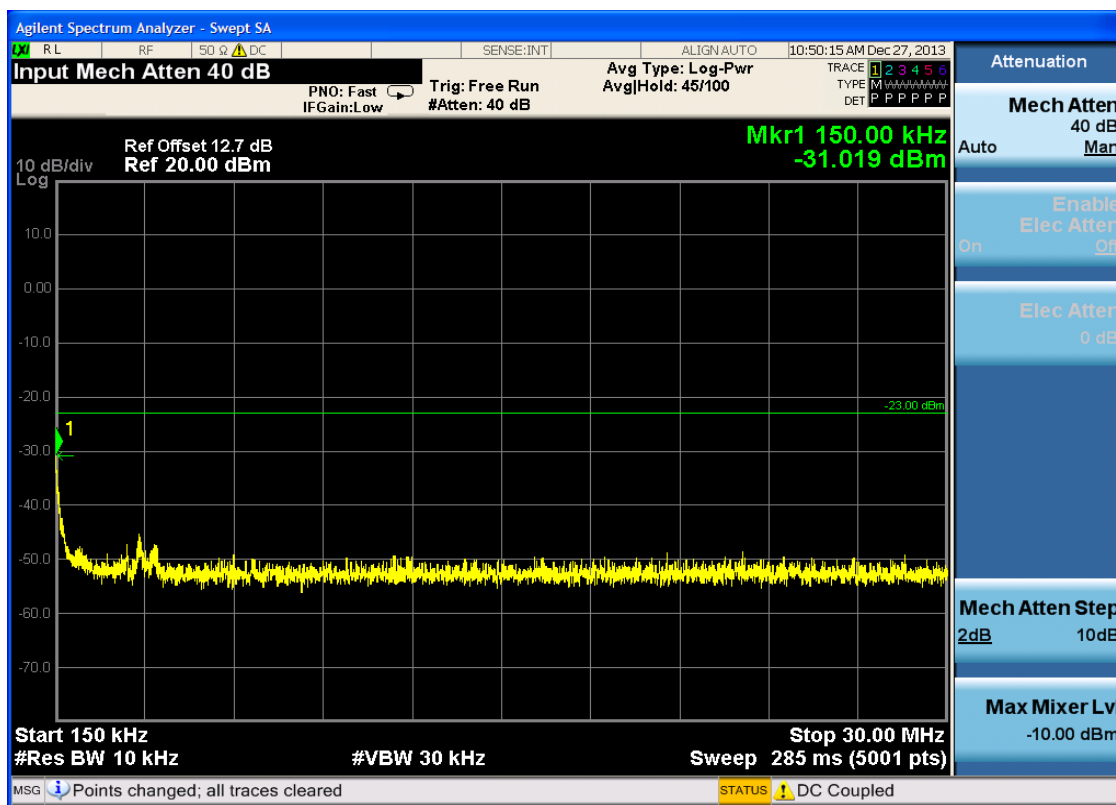


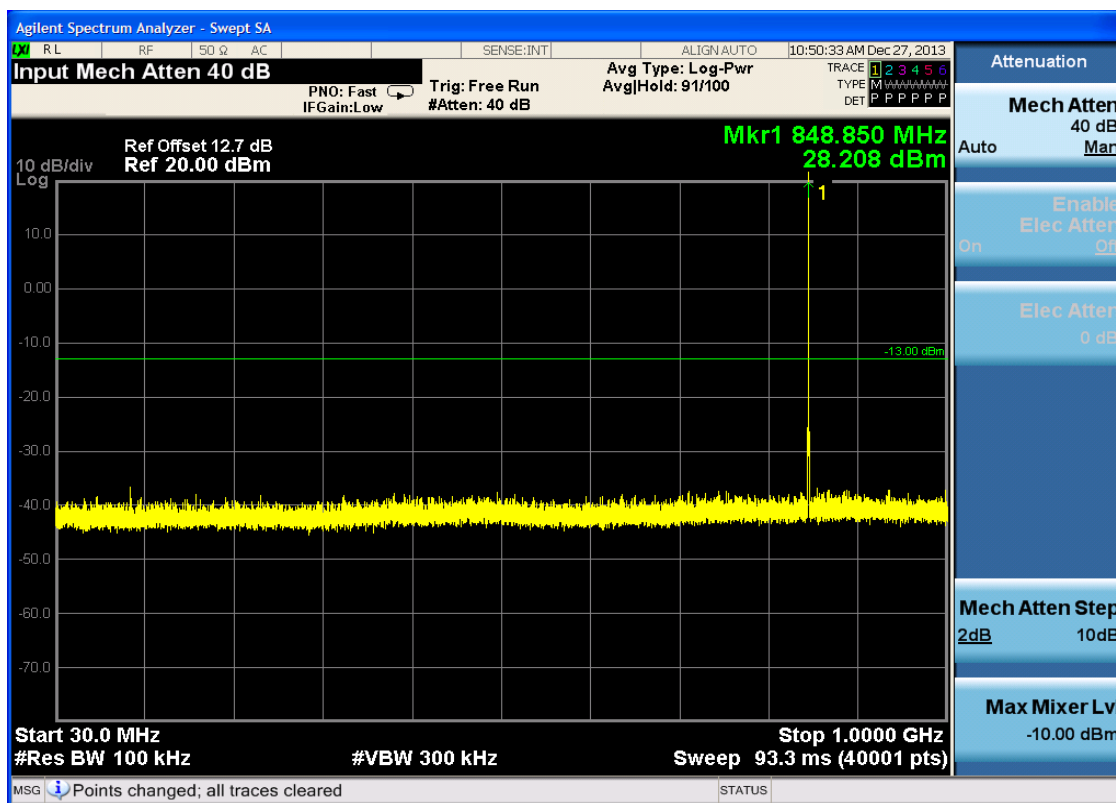


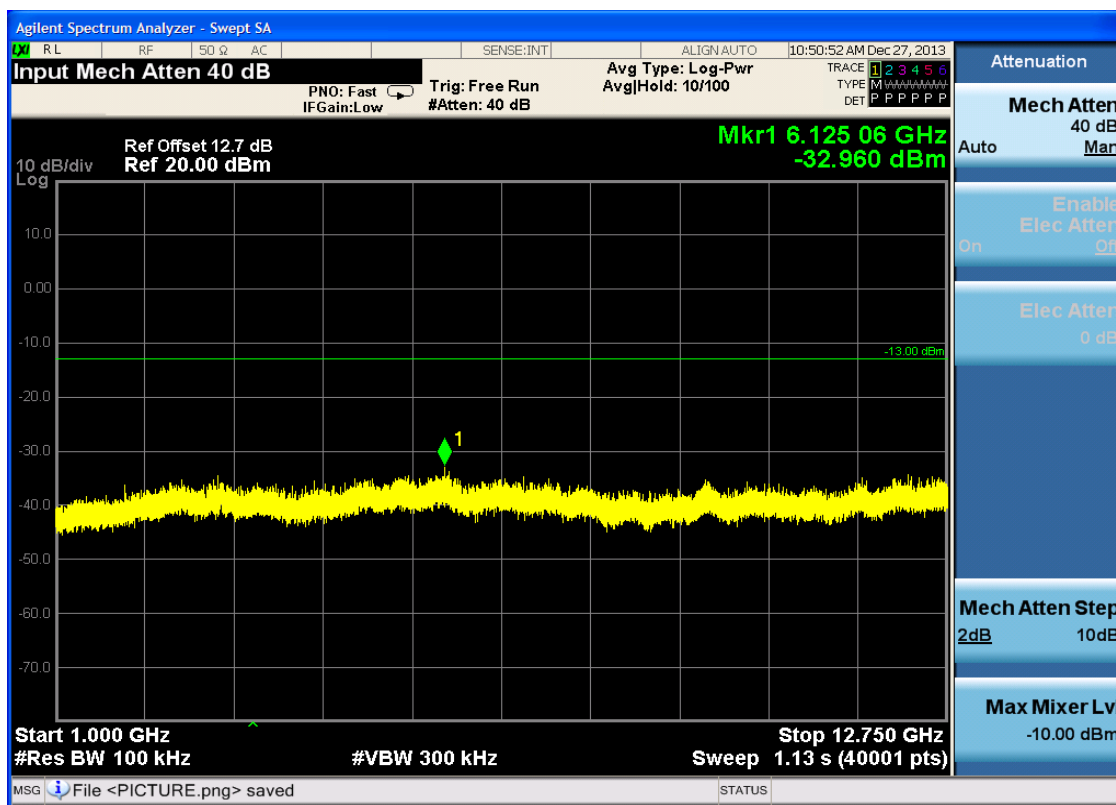
6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH





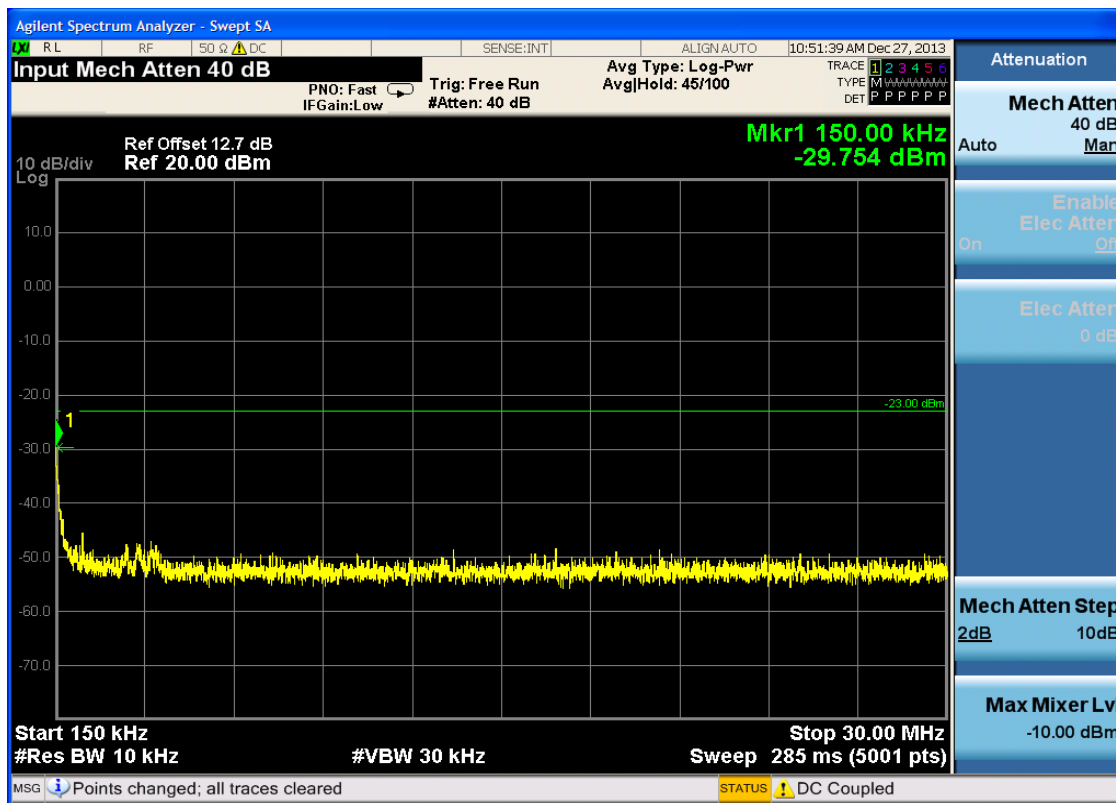


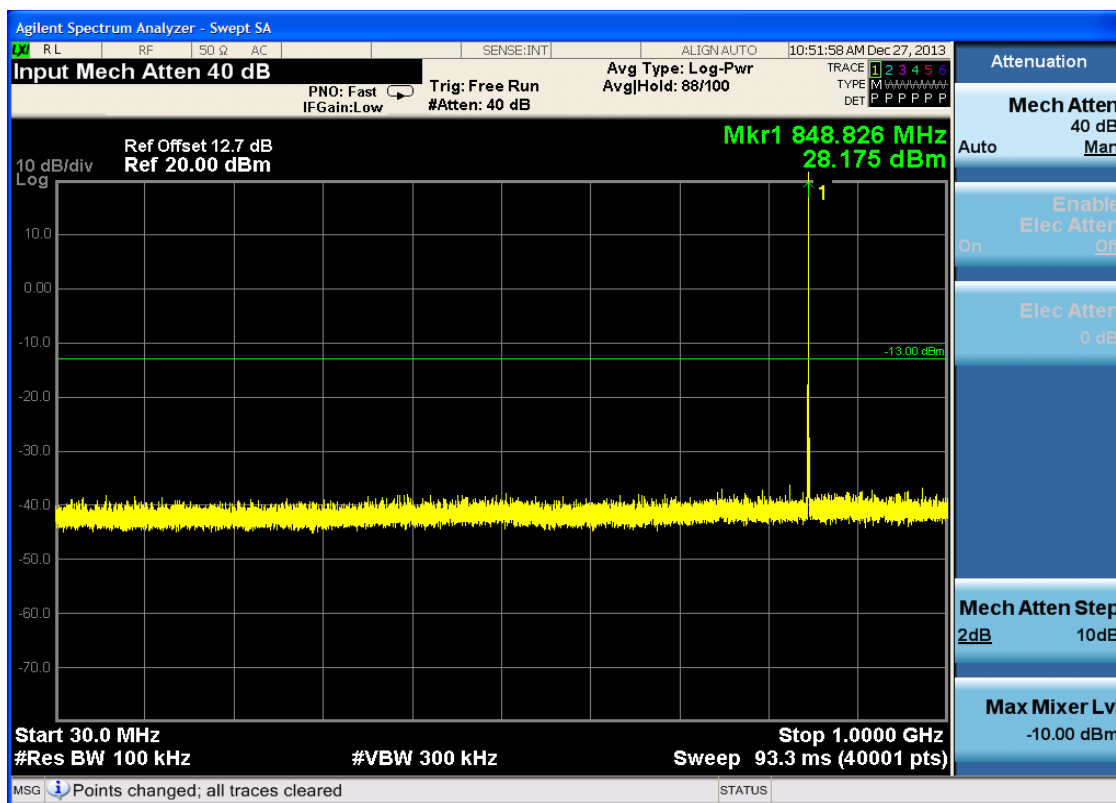


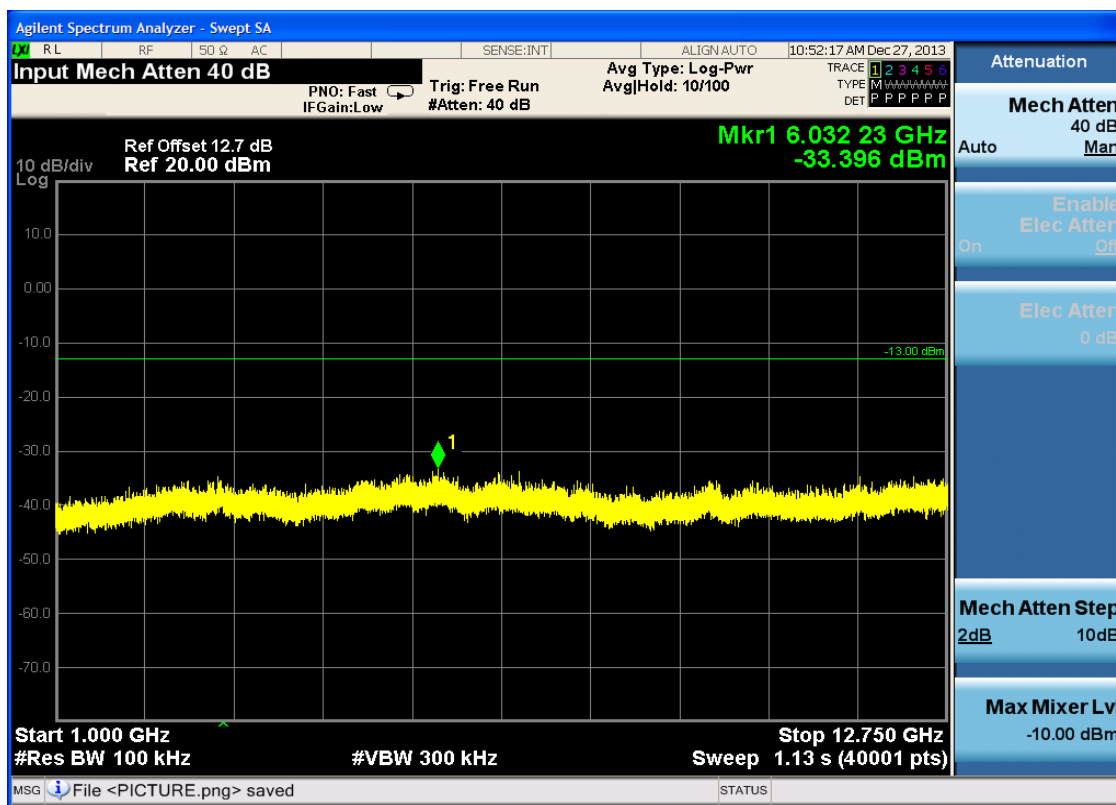


6.1.1.2.2 Test Channel = MCH

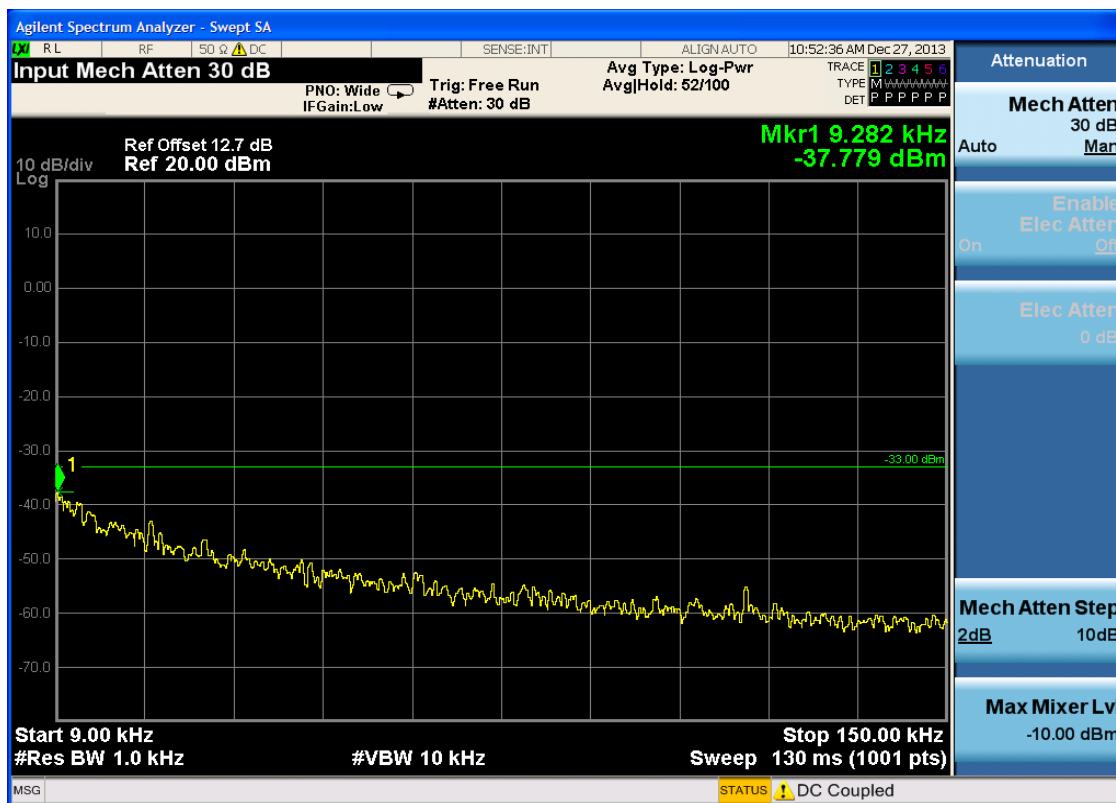


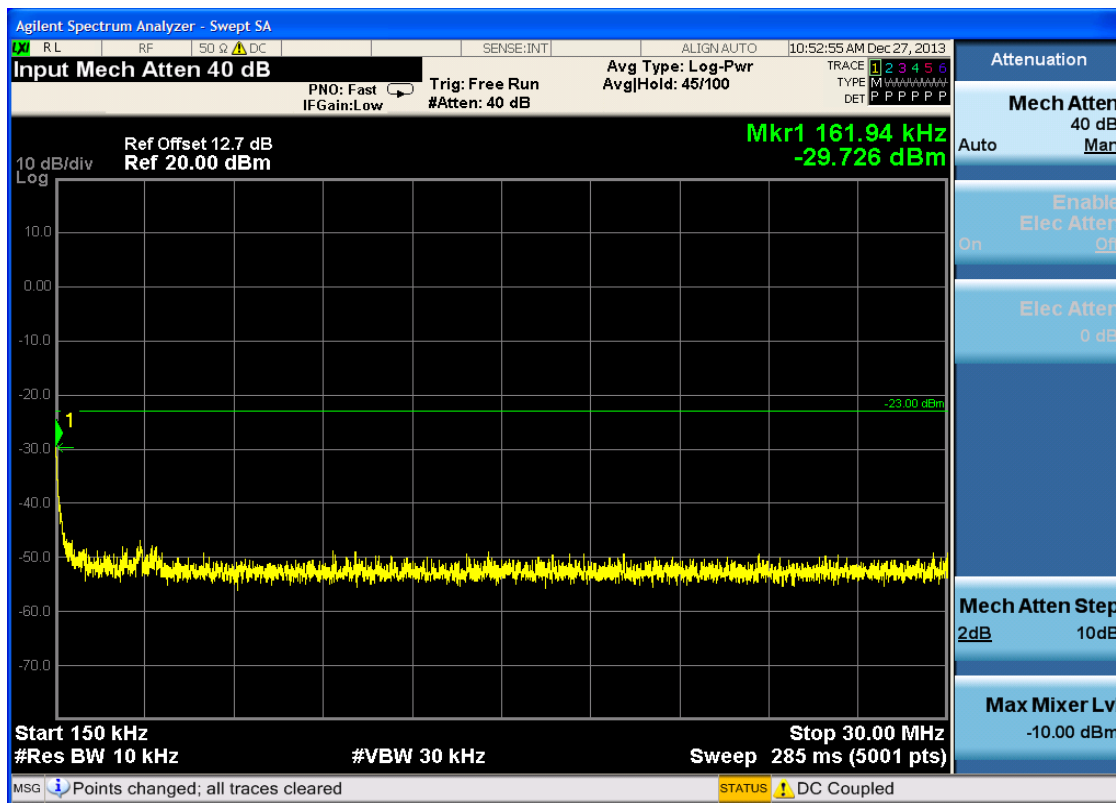


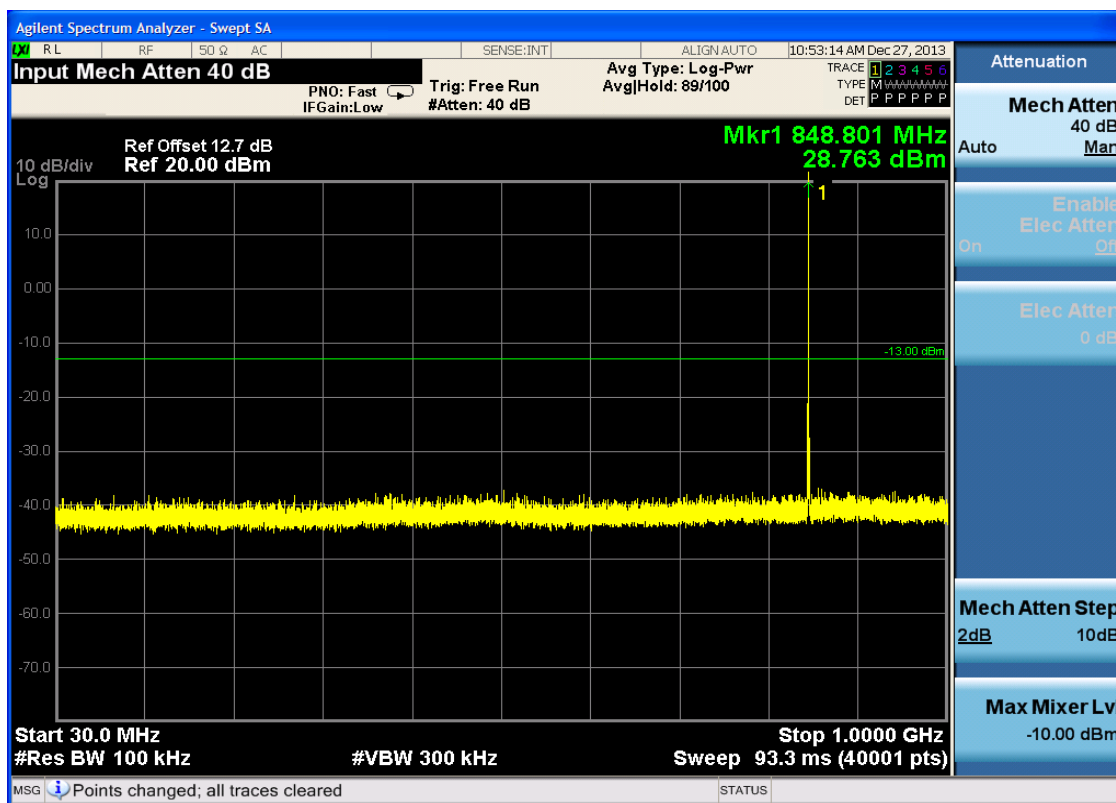


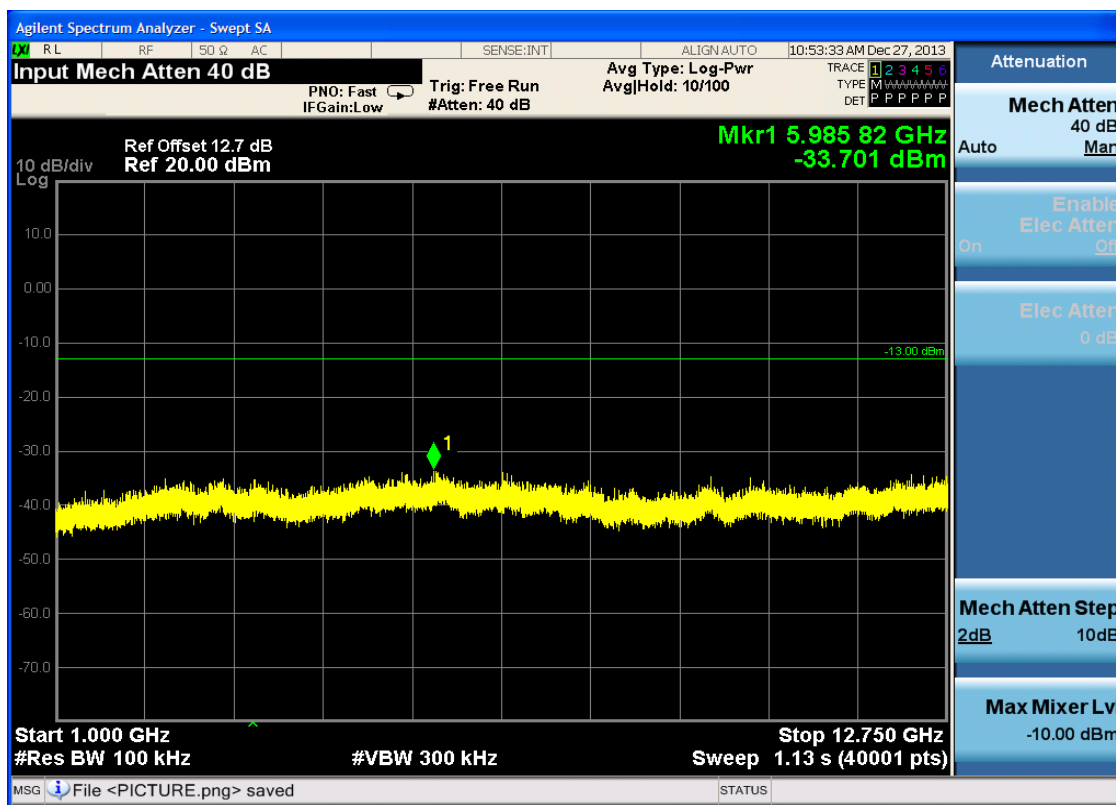


6.1.1.2.3 Test Channel = HCH







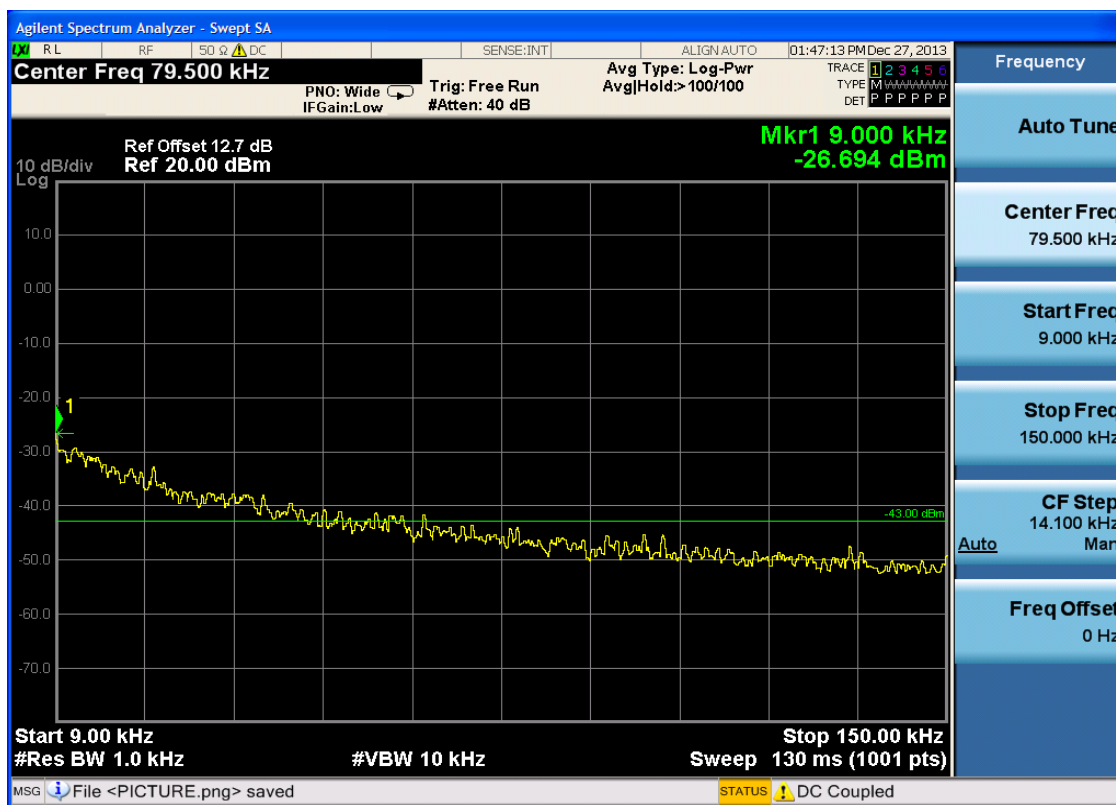


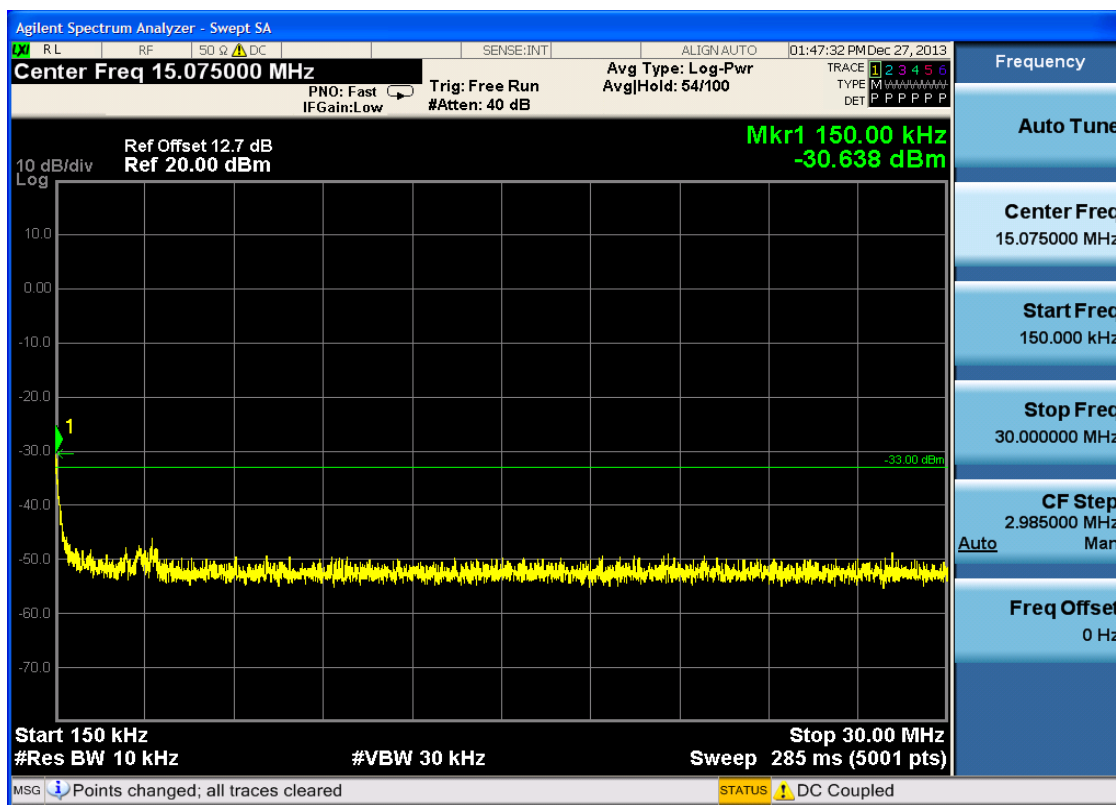


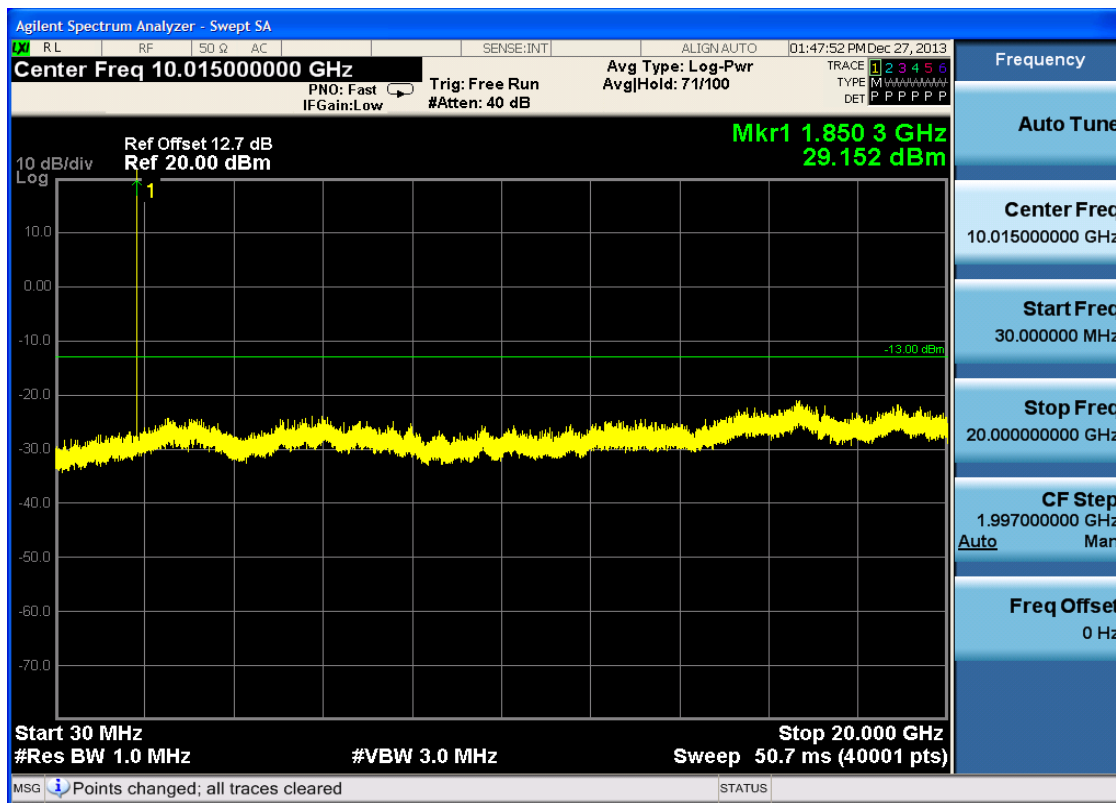
6.1.2 Test Band = GSM1900

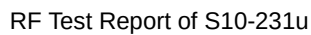
6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH









Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN: AUTO 01:48:13 PM Dec 27, 2013

Center Freq 79.500 kHz

PNO: Wide IF Gain: Low Trig: Free Run #Atten: 40 dB

Avg Type: Log-Pwr Avg|Hold> 100/100

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

Frequency

Auto Tune

Center Freq 79.500 kHz

Start Freq 9.000 kHz

Stop Freq 150.000 kHz

CF Step 14.100 kHz

Auto

Freq Offset 0 Hz

10 dB/div
Log

Ref Offset 12.7 dB
Ref 20.00 dBm

Mkr1 9.564 kHz
-25.888 dBm

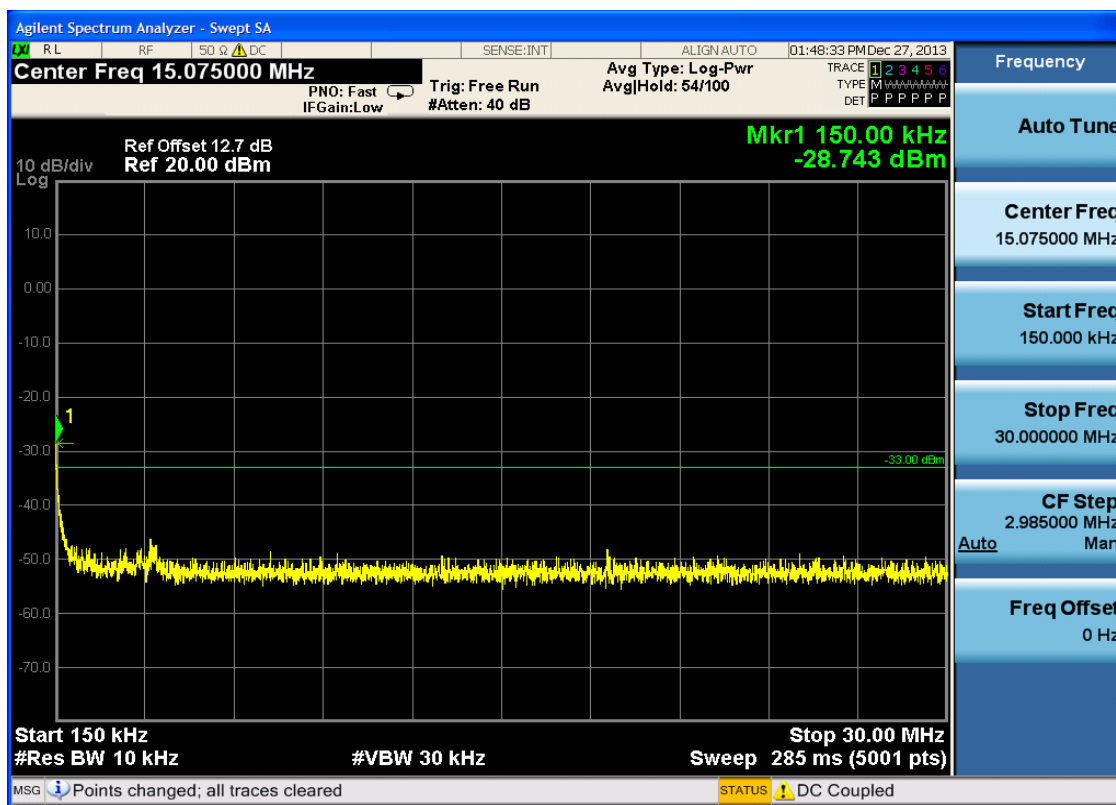
-43.00 dBm

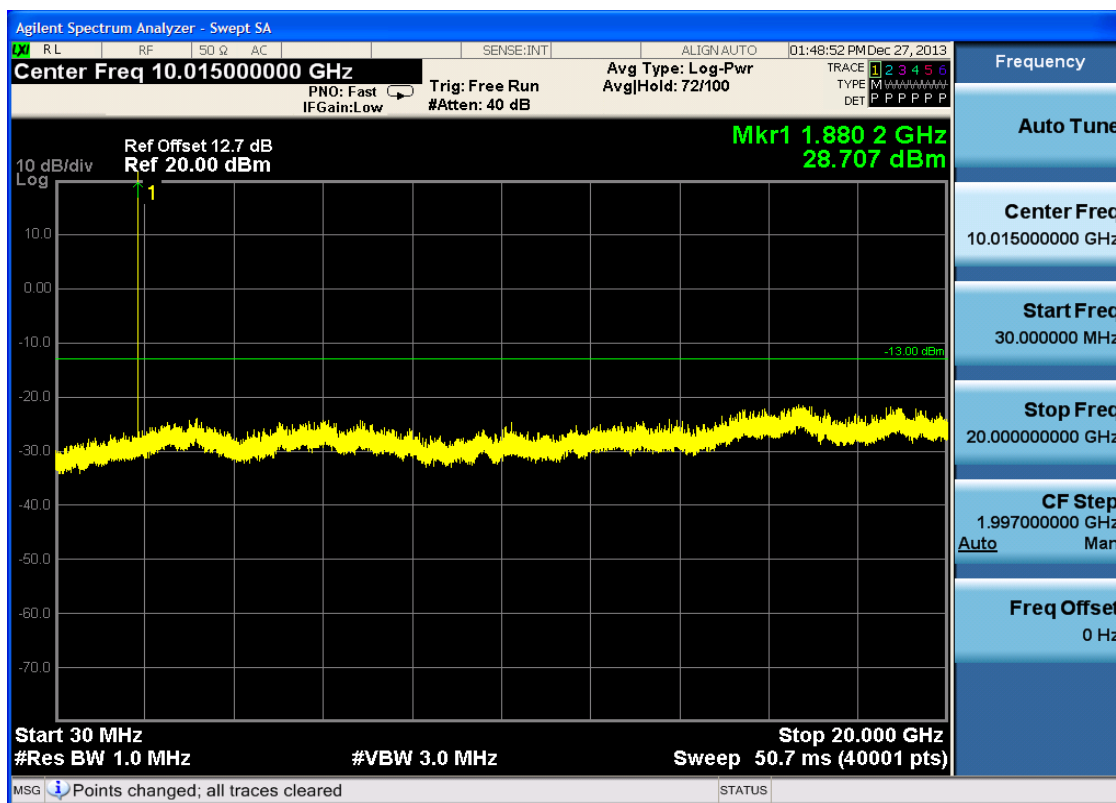
Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
#VBW 10 kHz
Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared

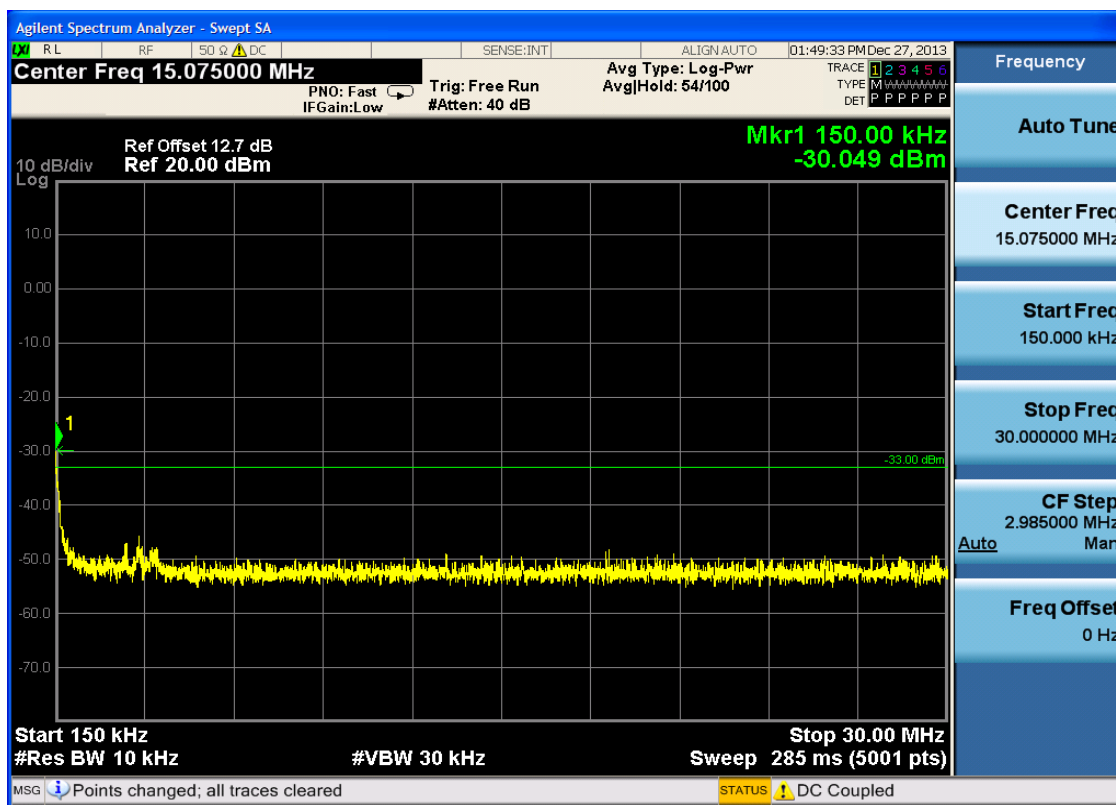
STATUS DC Coupled

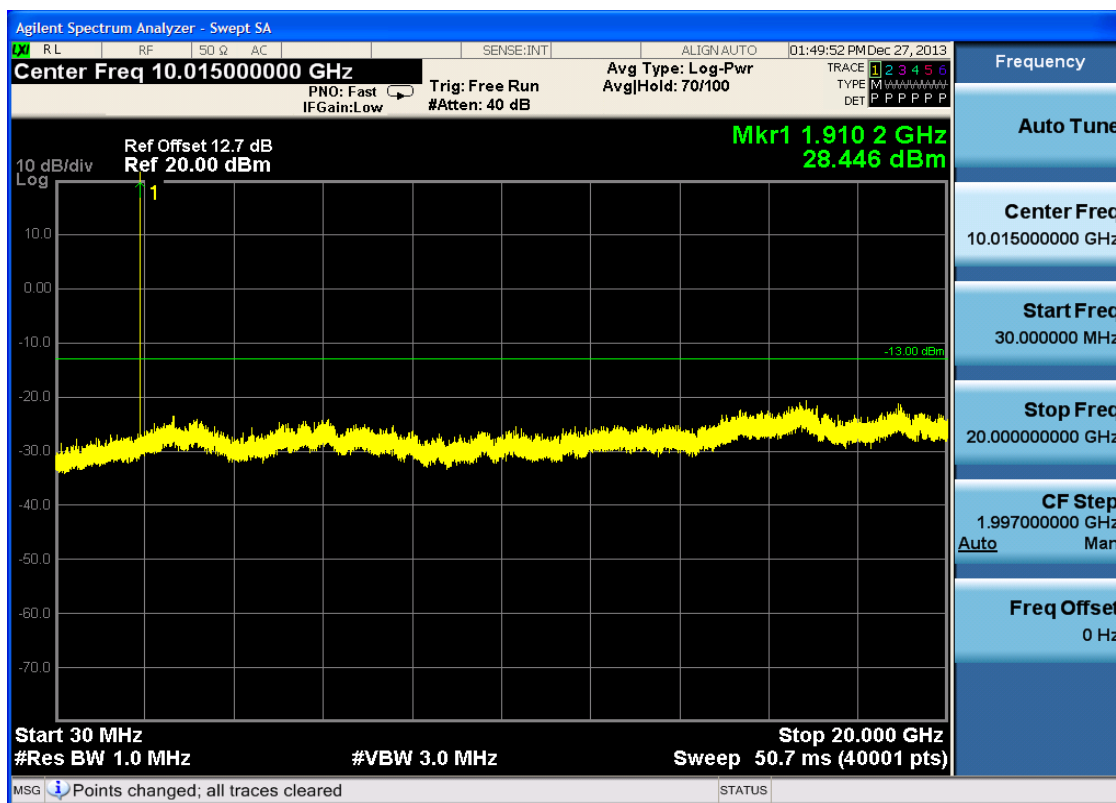




6.1.2.1.3 Test Channel = HCH

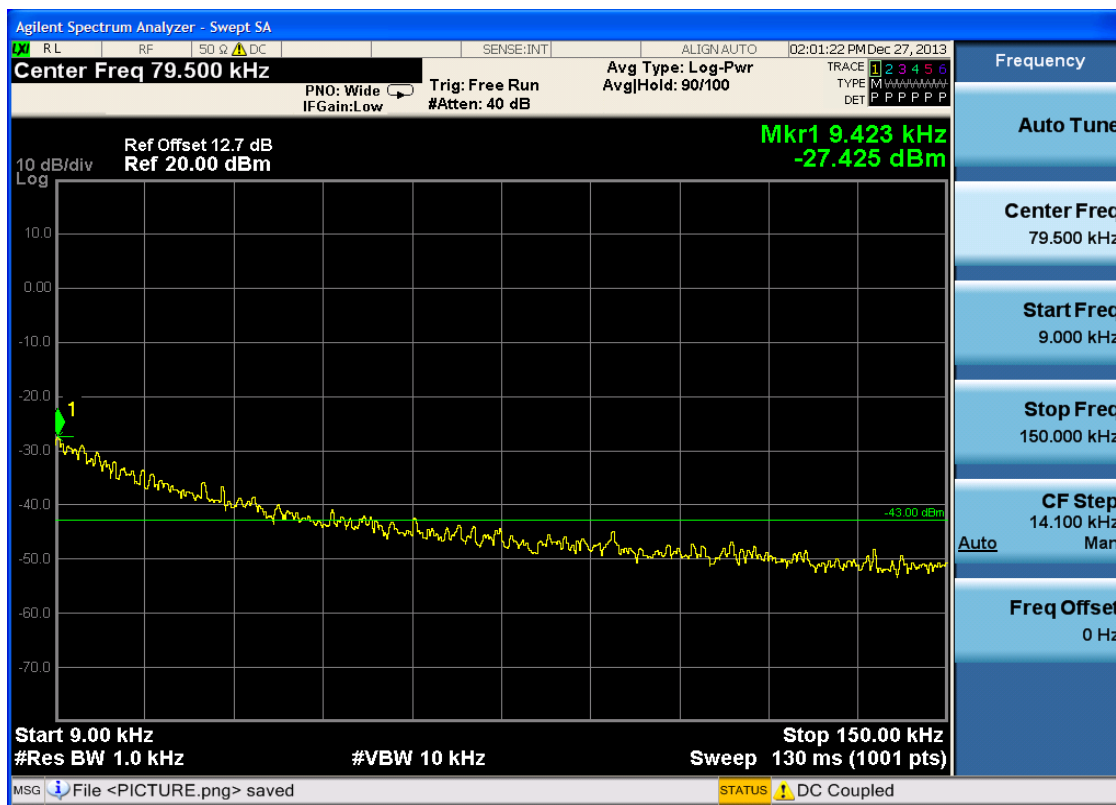


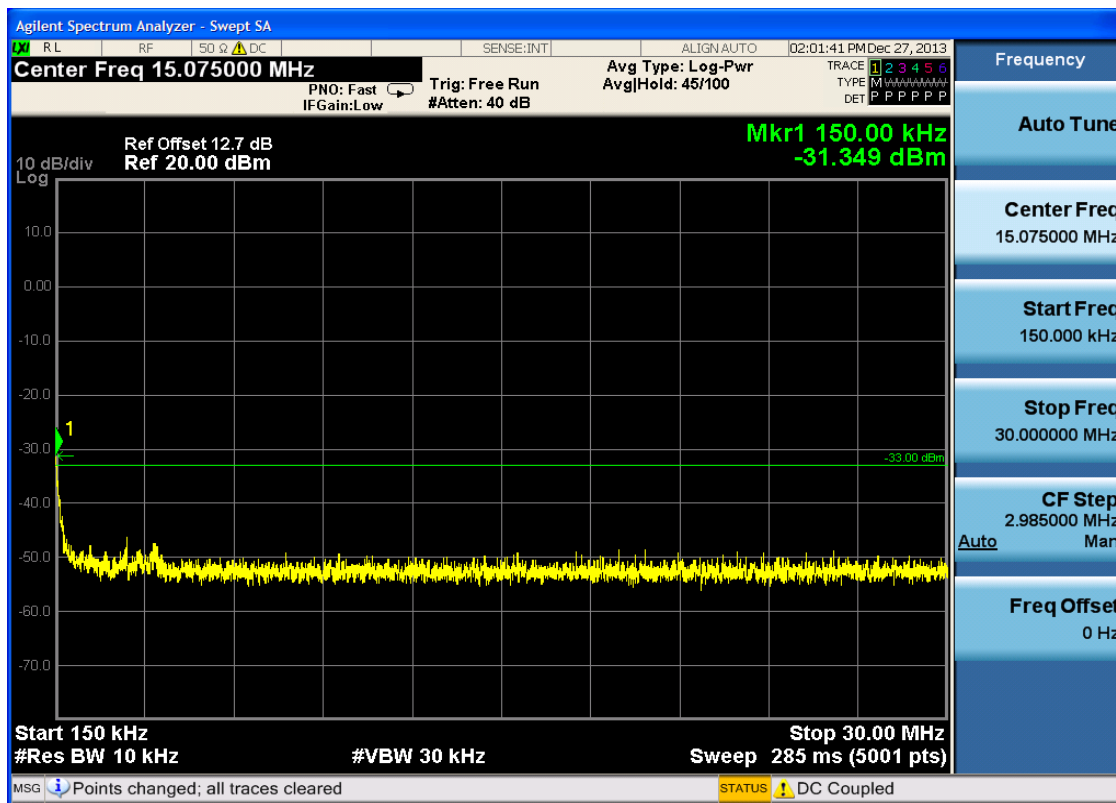


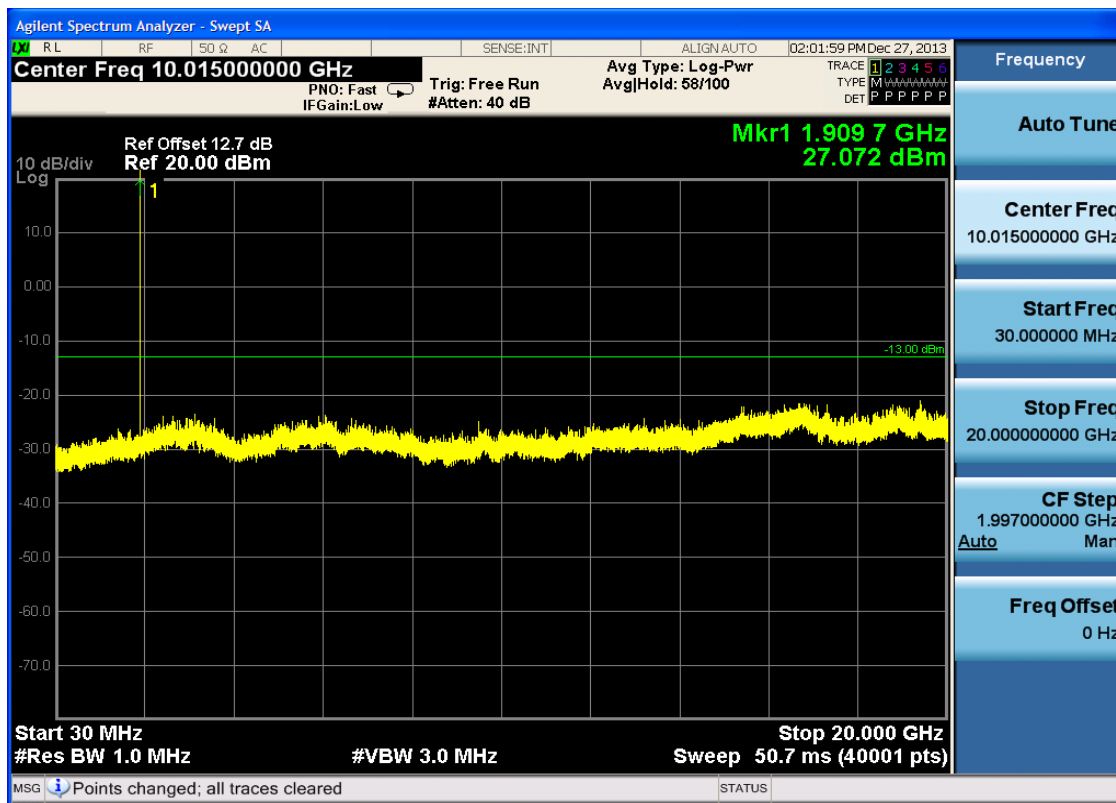


6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH

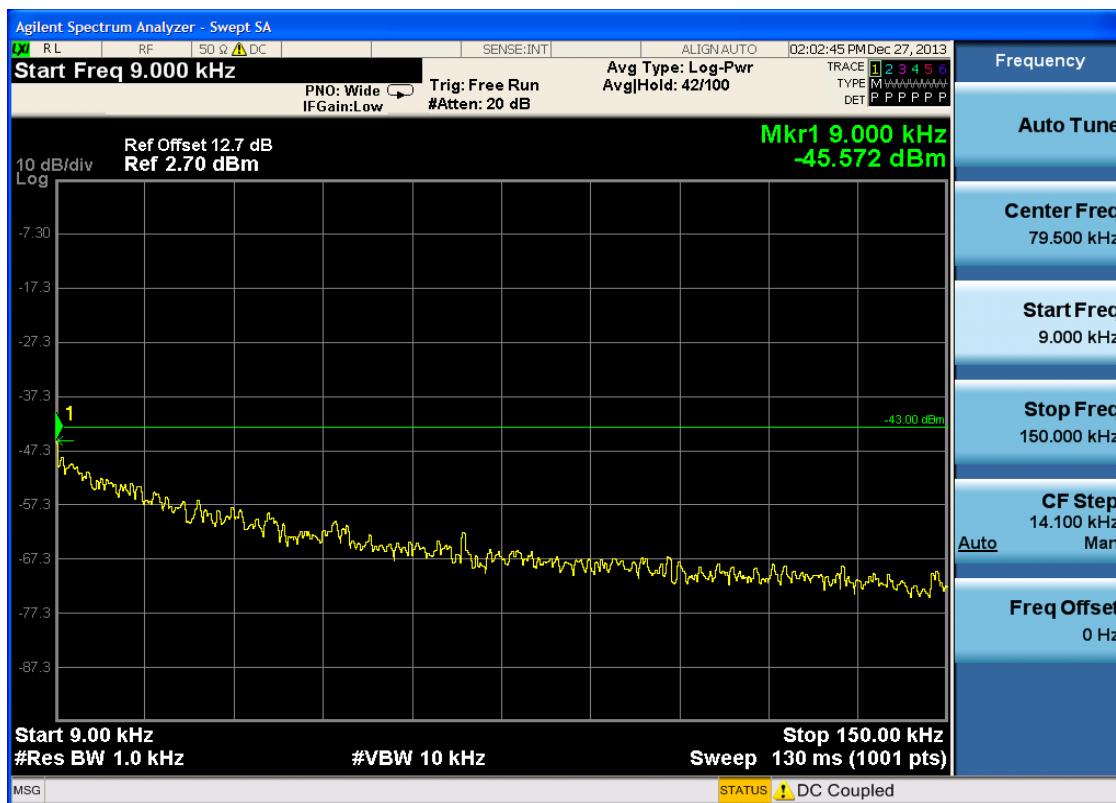


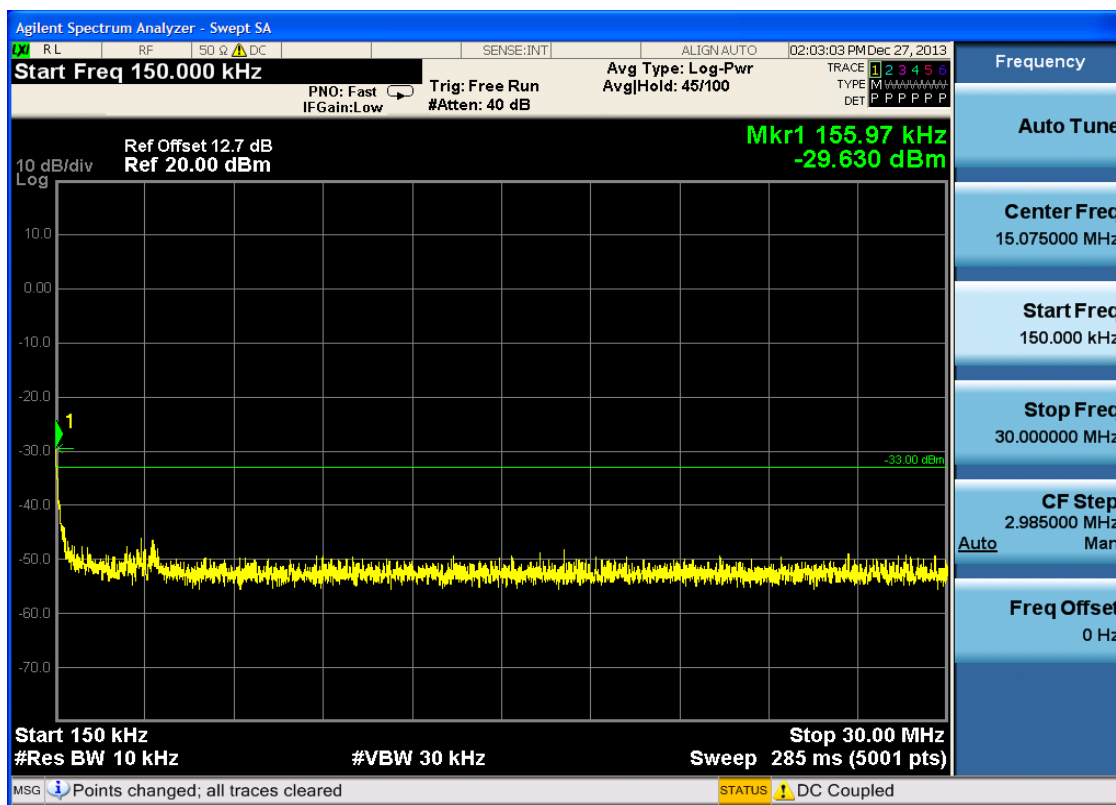


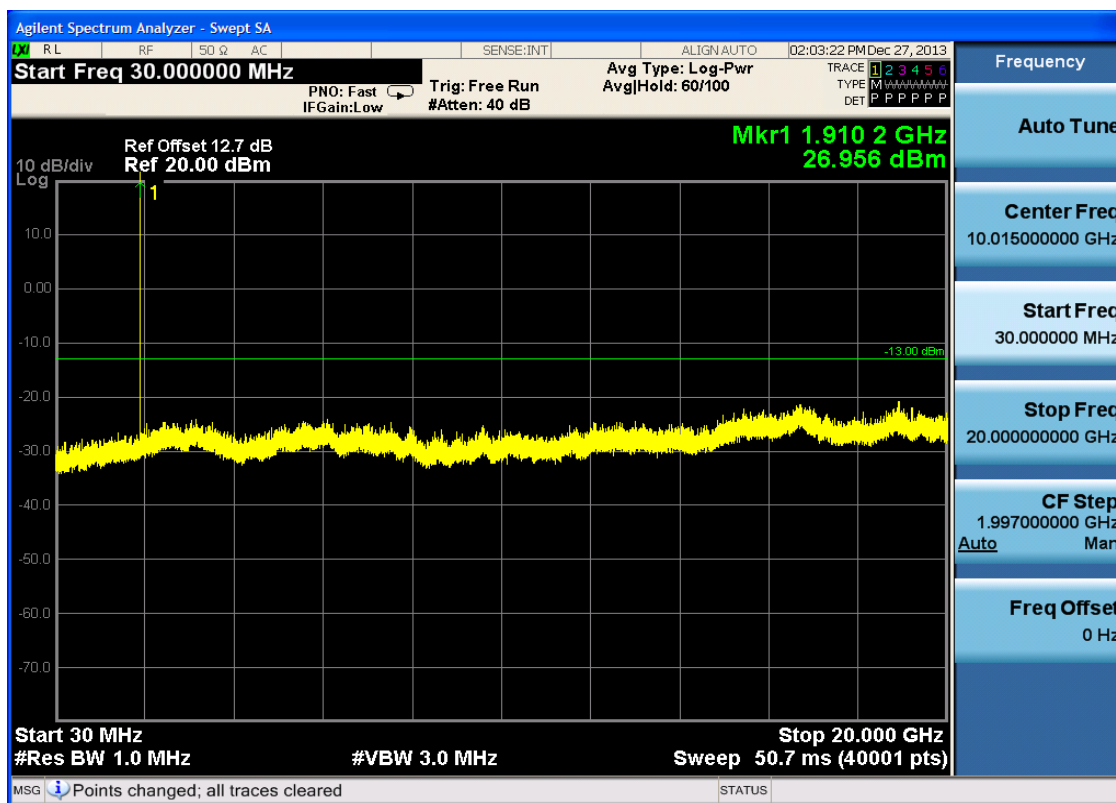




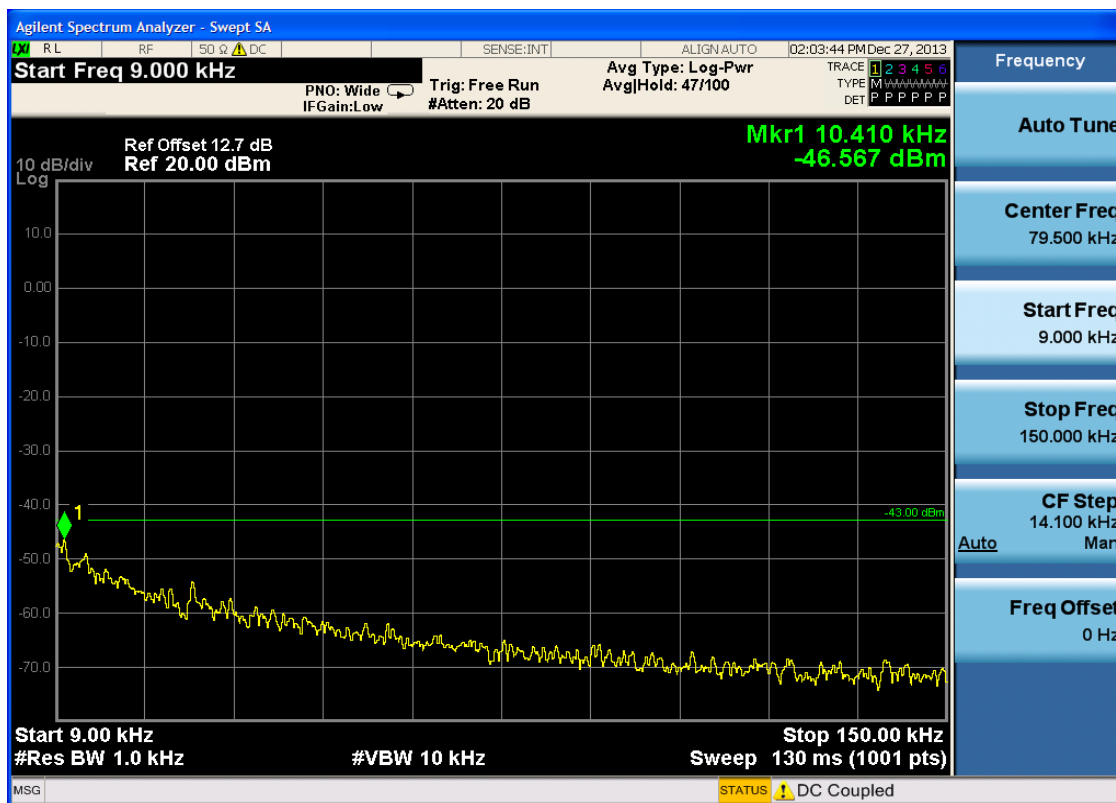
6.1.2.2.2 Test Channel = MCH

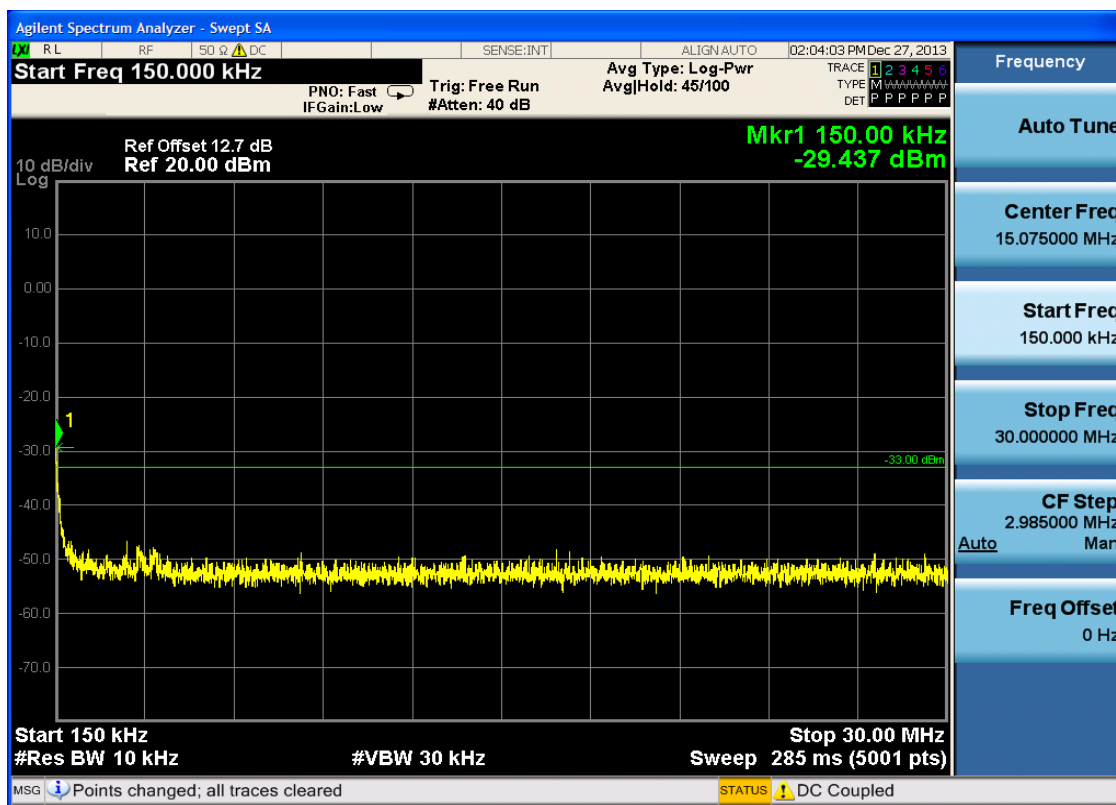


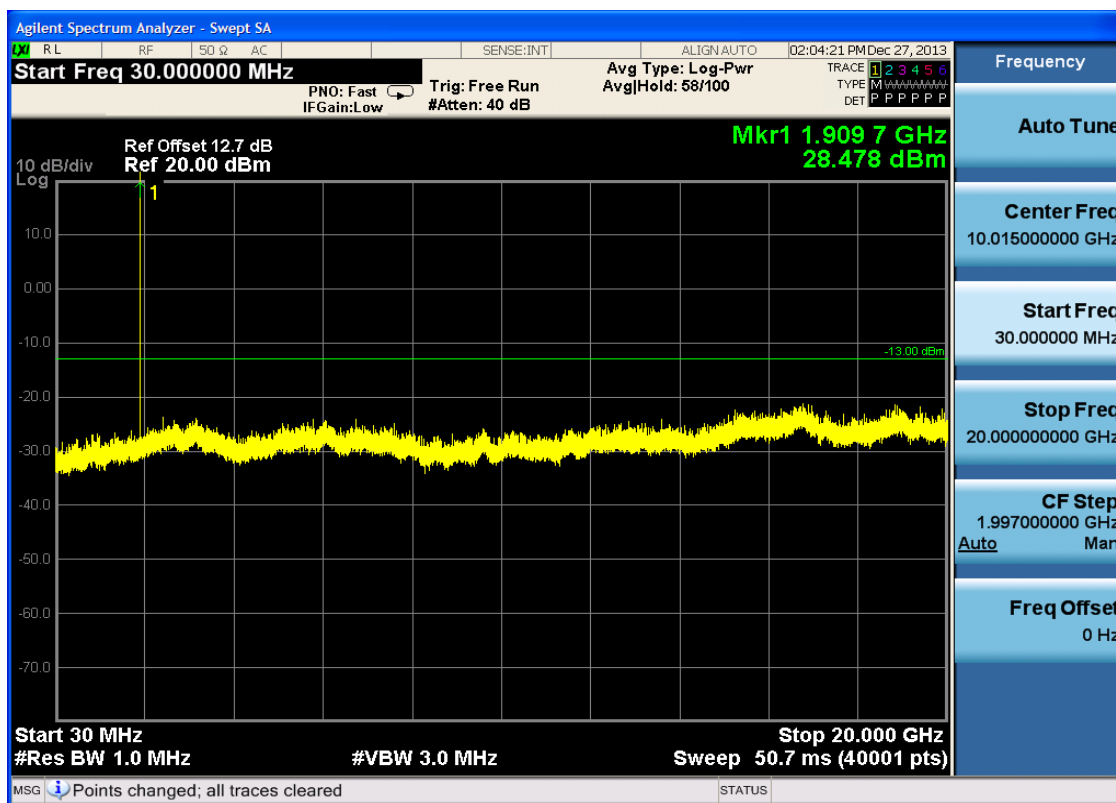




6.1.2.2.3 Test Channel = HCH





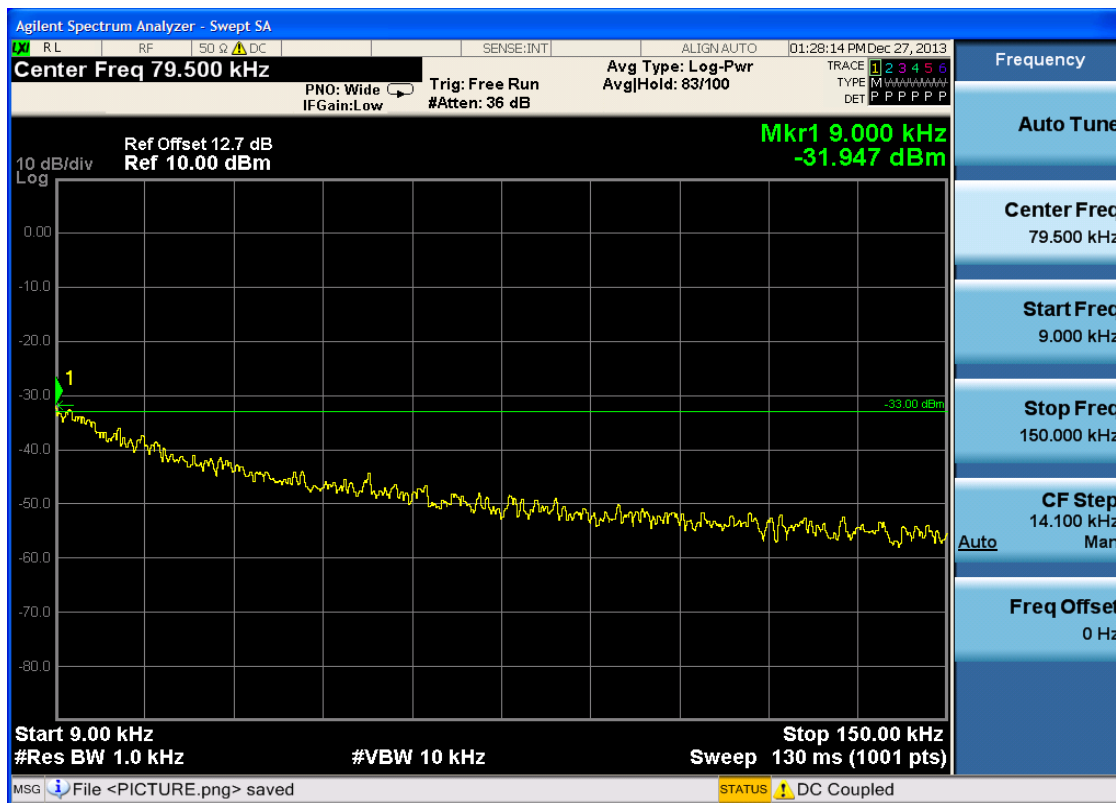


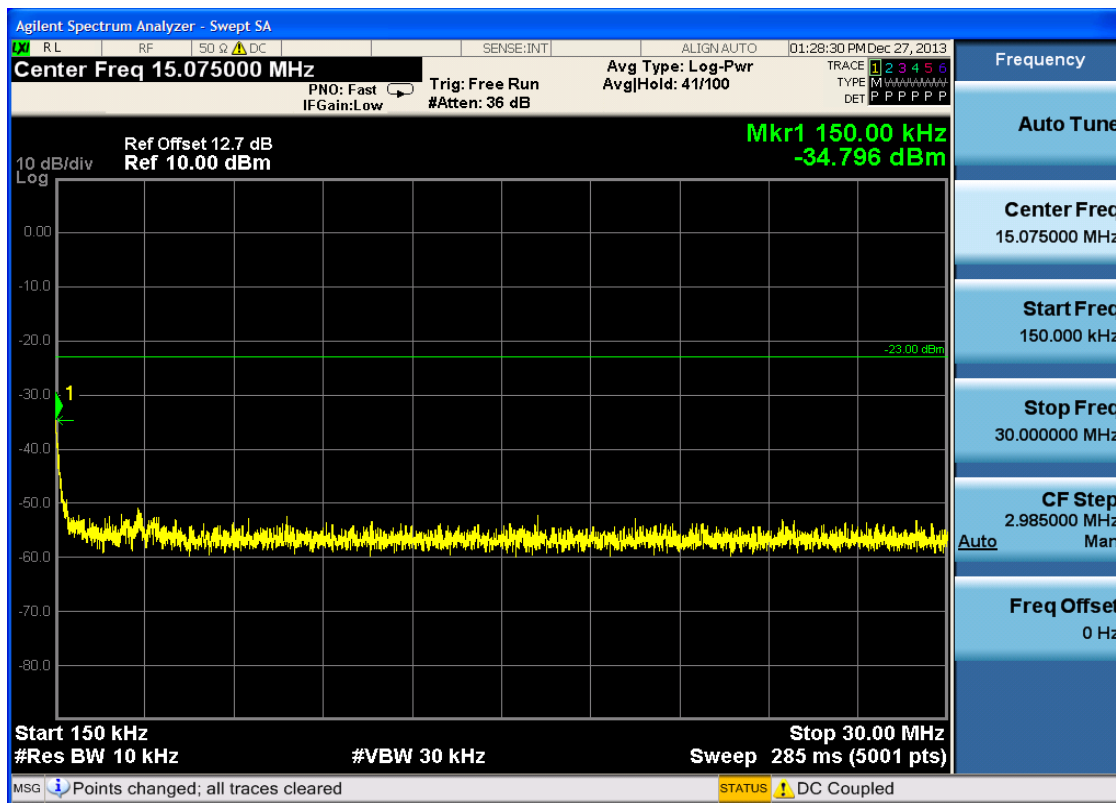
6.2 For UMTS

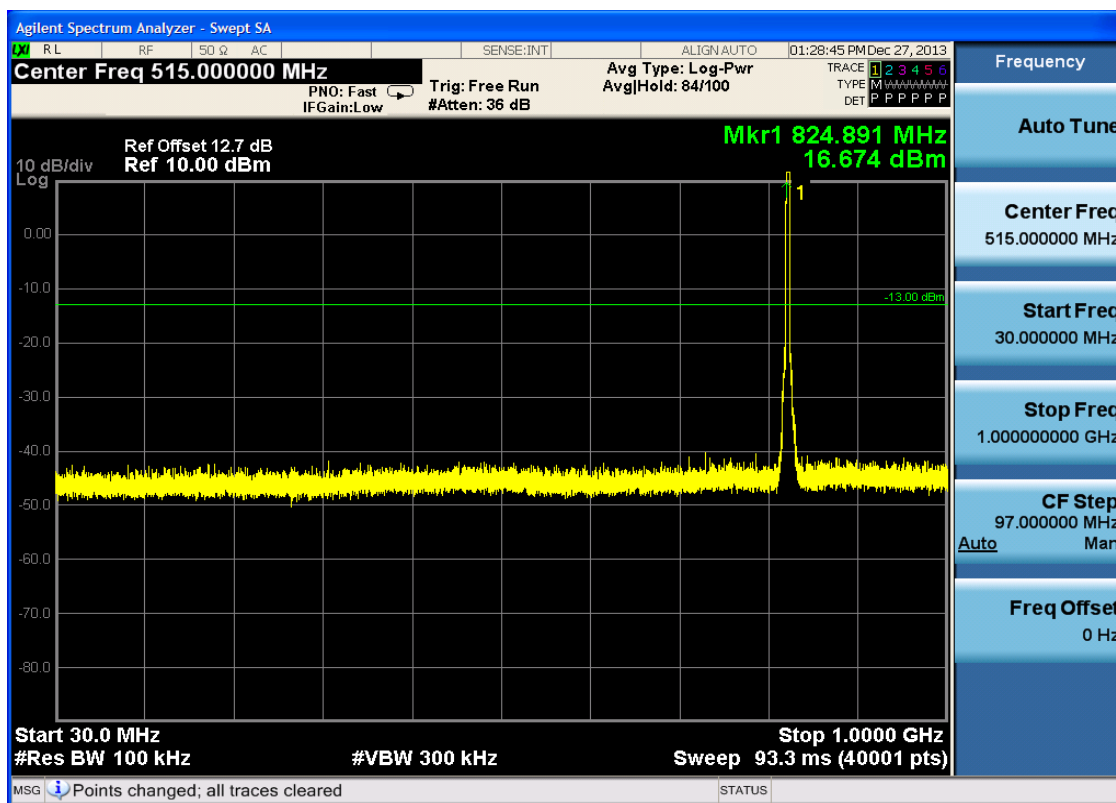
6.2.1 Test Band = WCDMA850

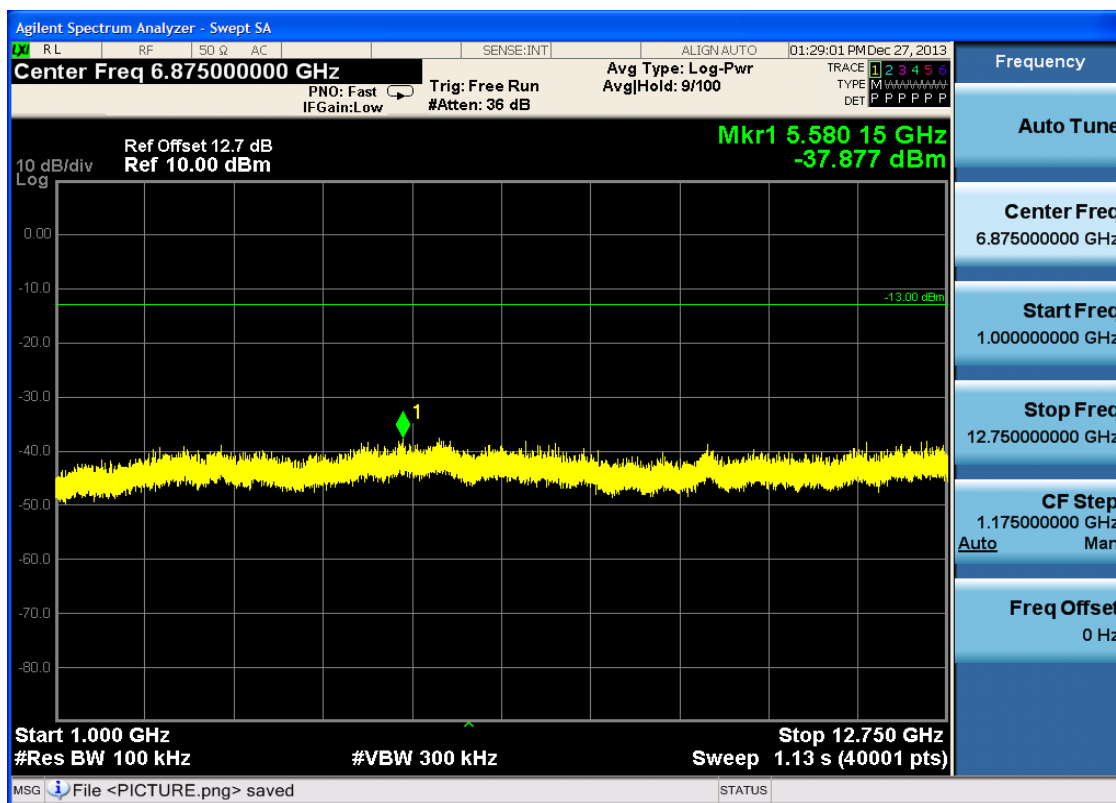
6.2.1.1 Test Mode = UMTS/TM1

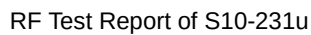
6.2.1.1.1 Test Channel = LCH











Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN: AUTO 01:29:18 PM Dec 27, 2013

Center Freq 79.500 kHz

PNO: Wide Trg: Free Run Avg Type: Log-Pwr Avg|Hold: 84/100

IFGain:Low #Atten: 36 dB

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

Ref Offset 12.7 dB
Ref 10.00 dBm

Mkr1 10.269 kHz
-32.014 dBm

10 dB/div
Log

0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0

-33.00 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 130 ms (1001 pts)

#VBW 10 kHz

MSG Points changed; all traces cleared

STATUS DC Coupled

Frequency

Auto Tune

Center Freq 79.500 kHz

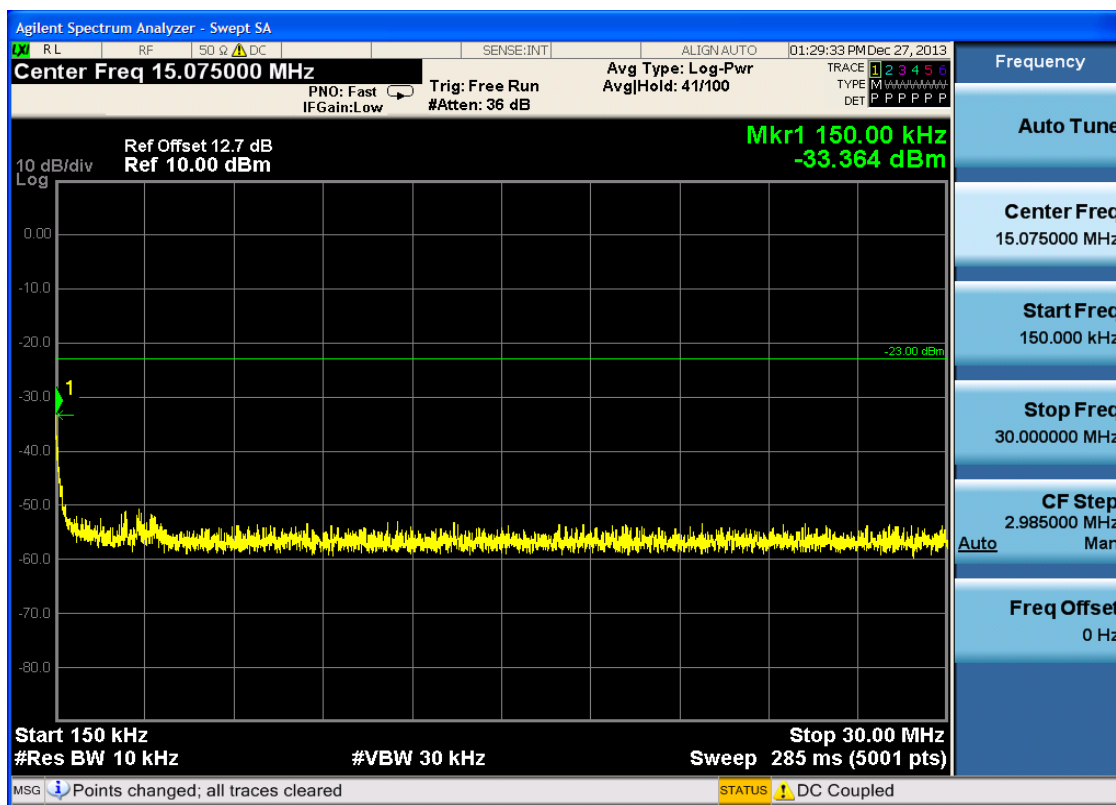
Start Freq 9.000 kHz

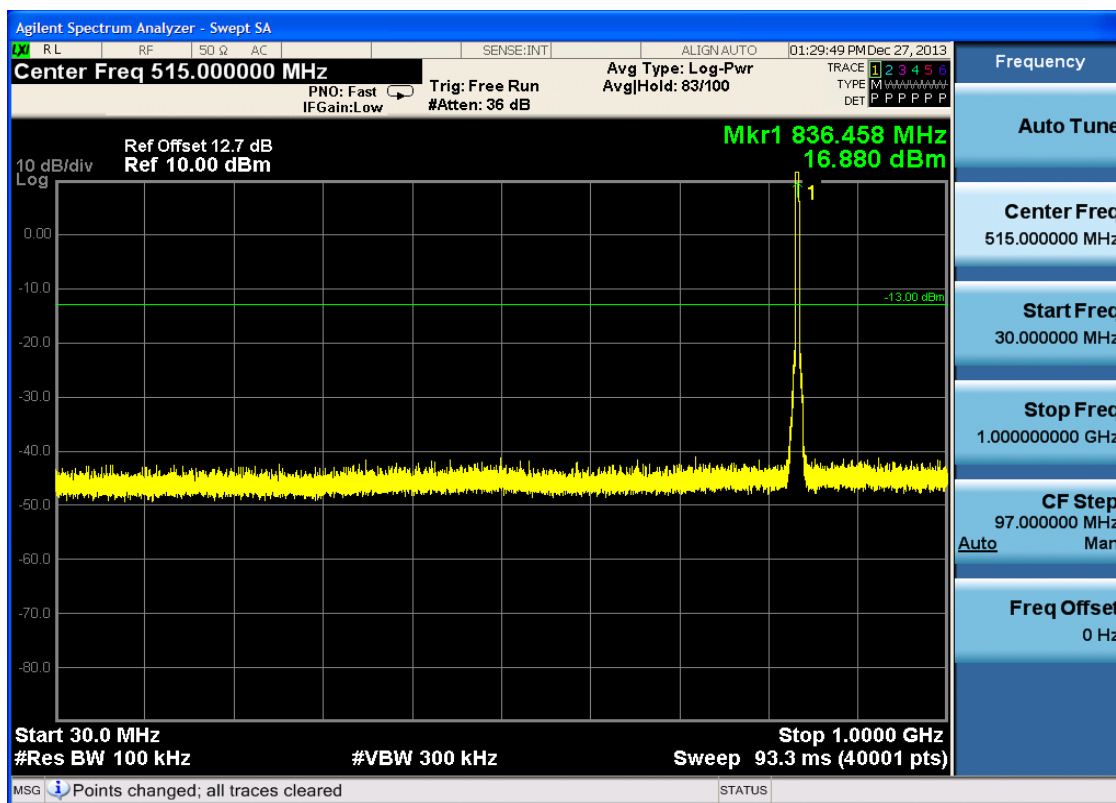
Stop Freq 150.00 kHz

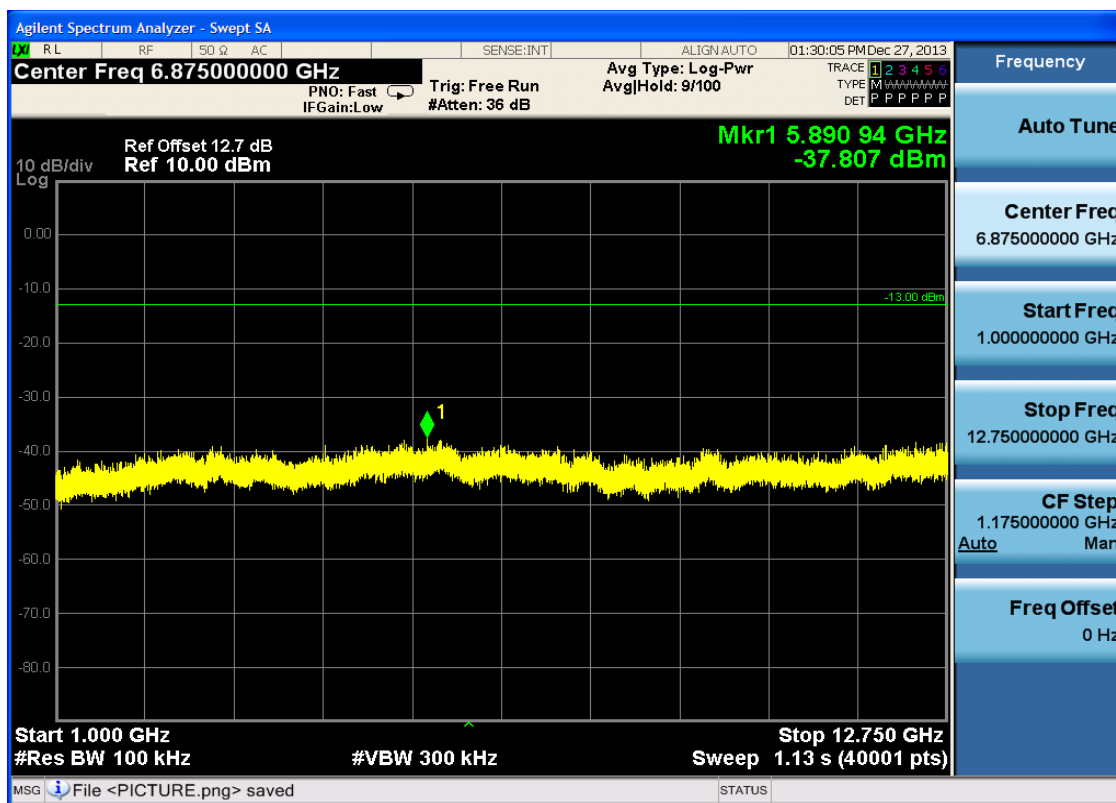
CF Step 14.100 kHz

Auto

Freq Offset 0 Hz

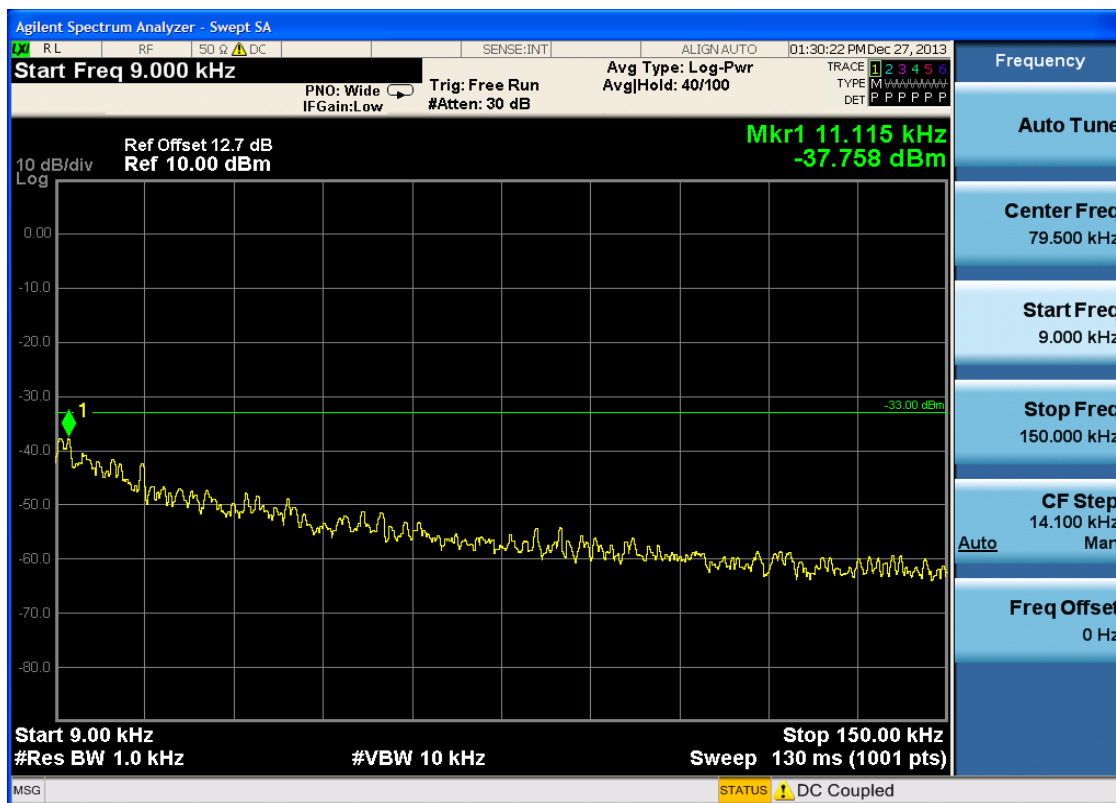


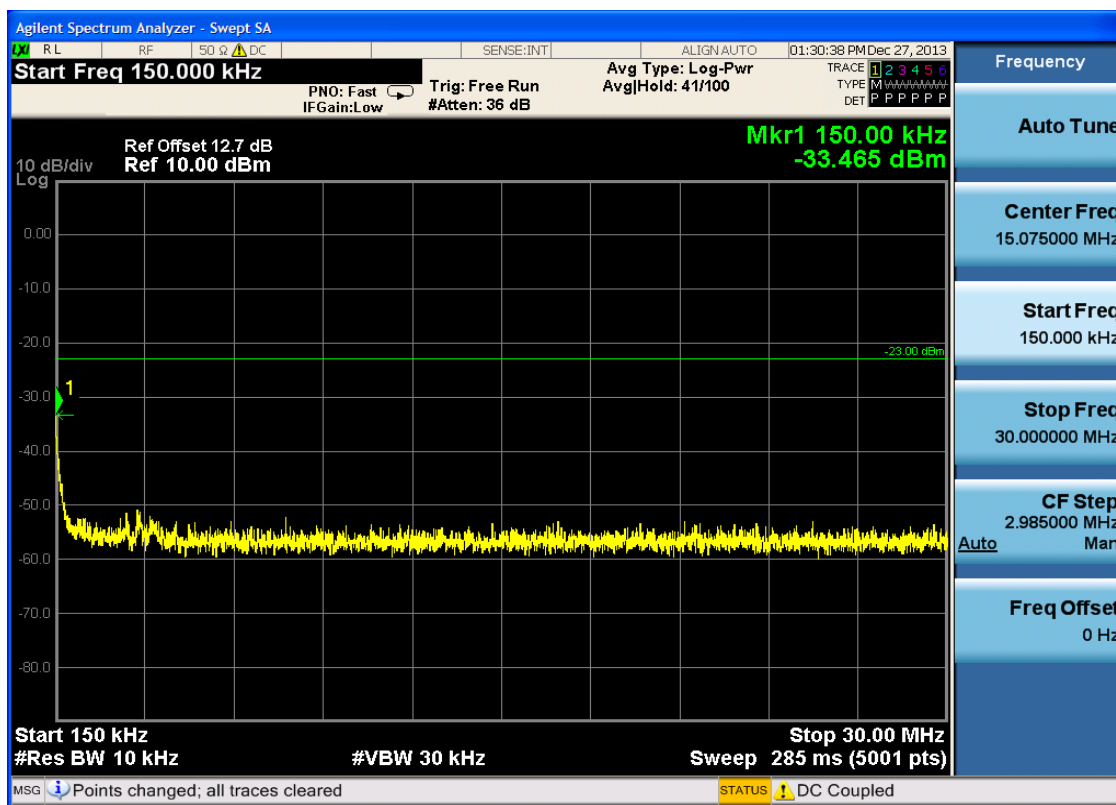


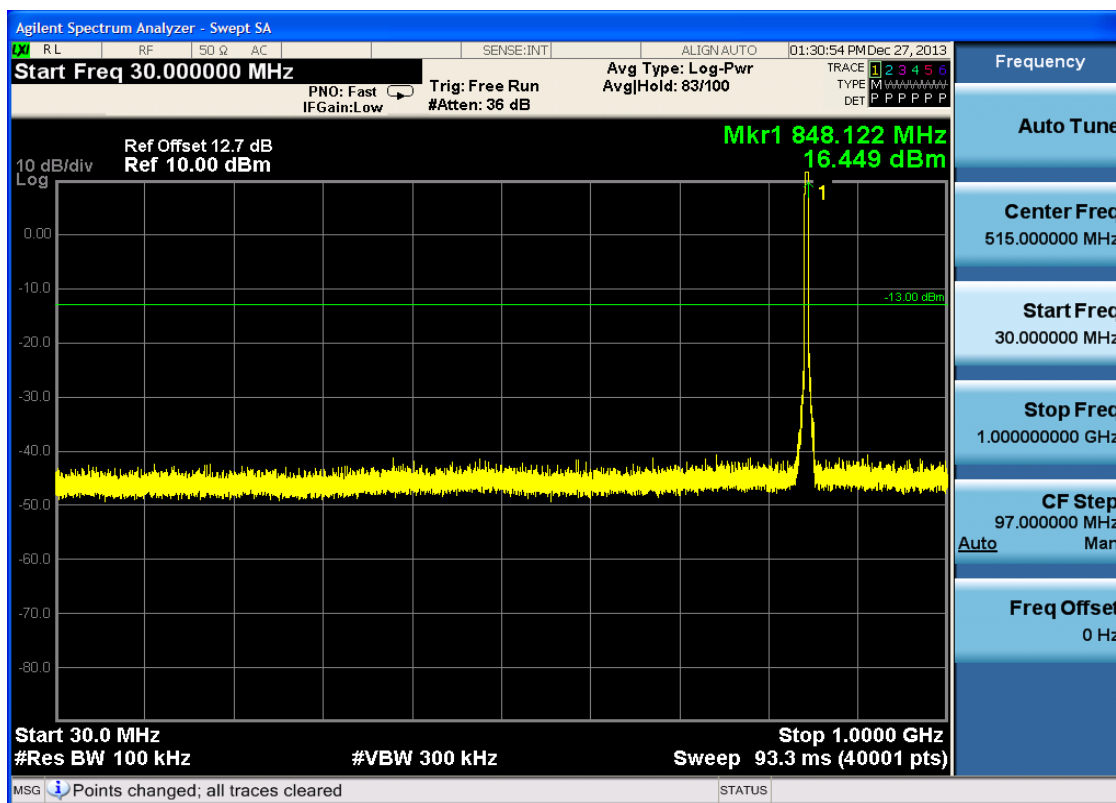


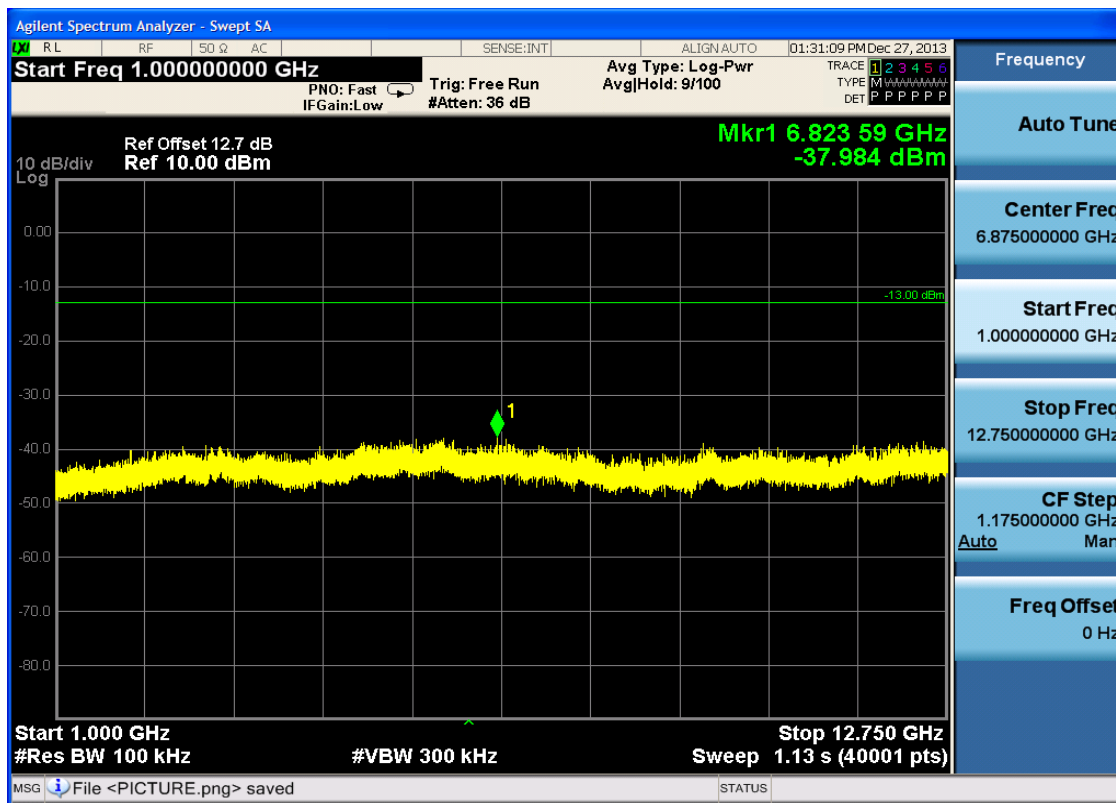


6.2.1.1.3 Test Channel = HCH





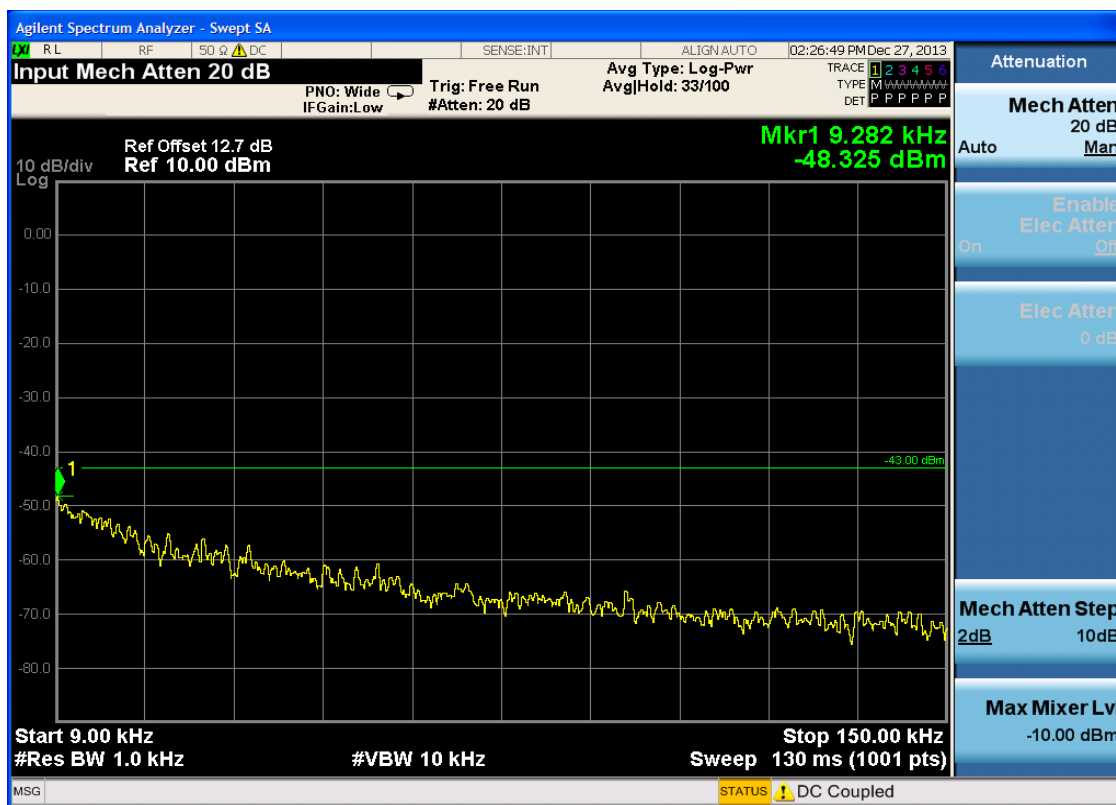


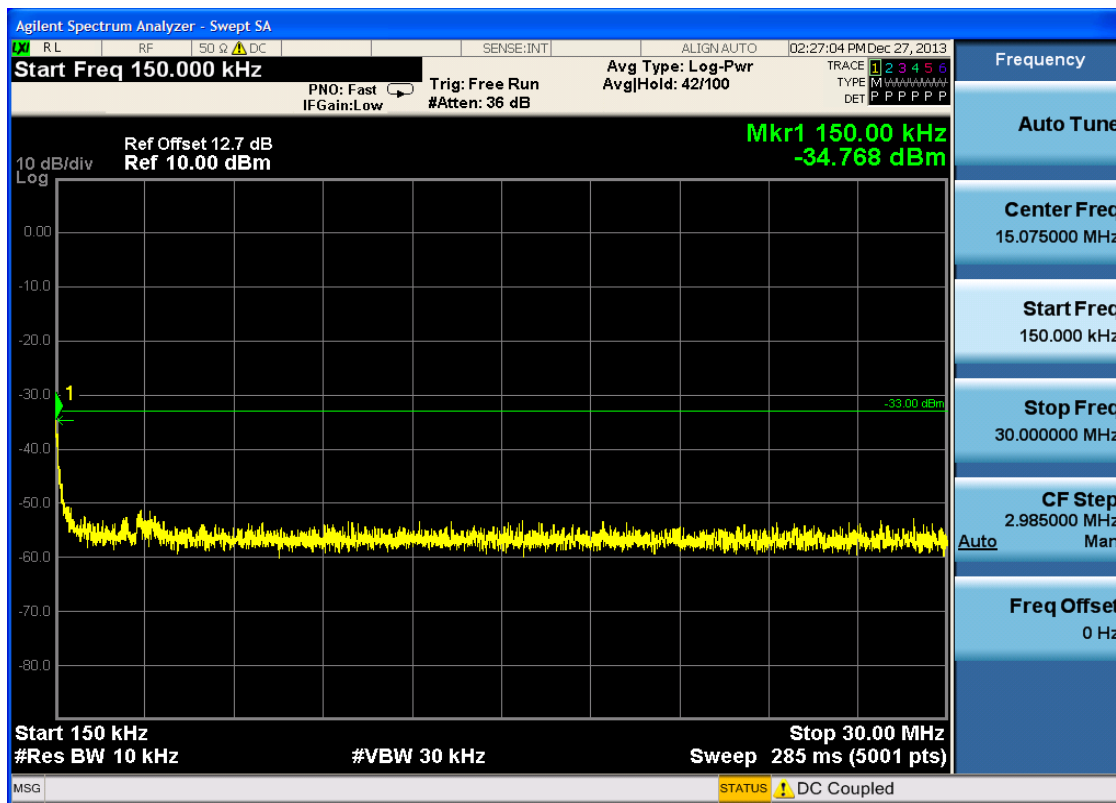


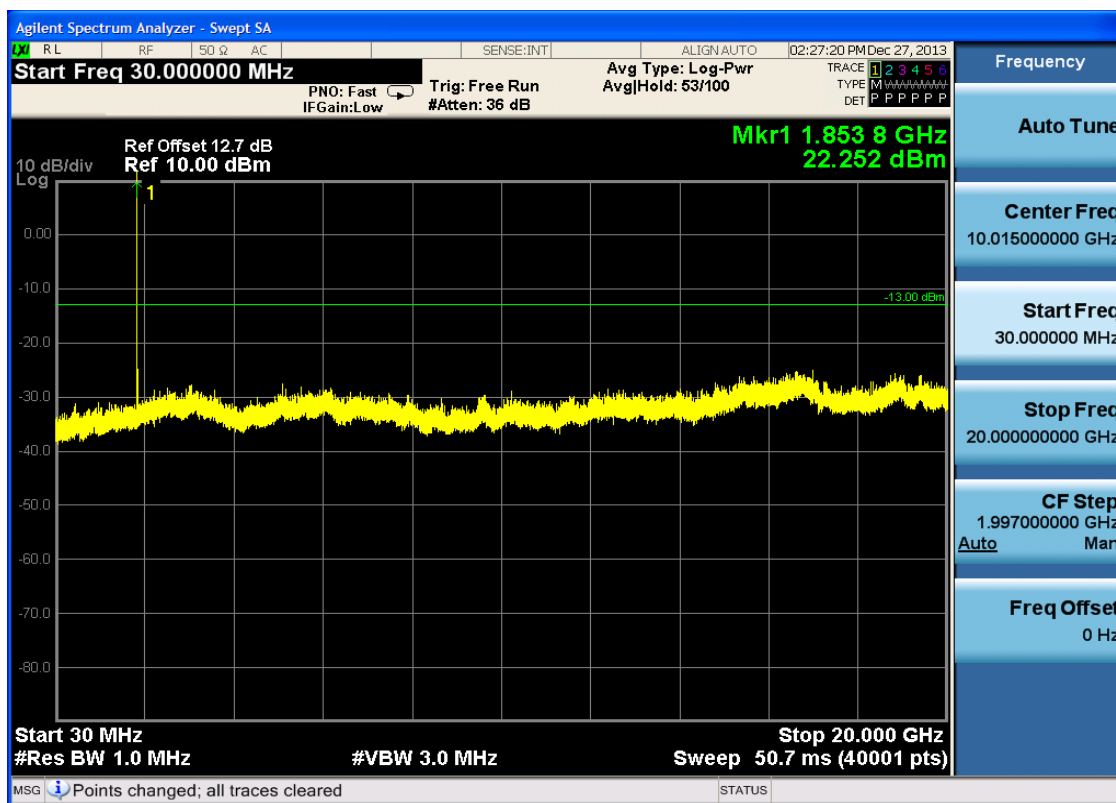
6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH

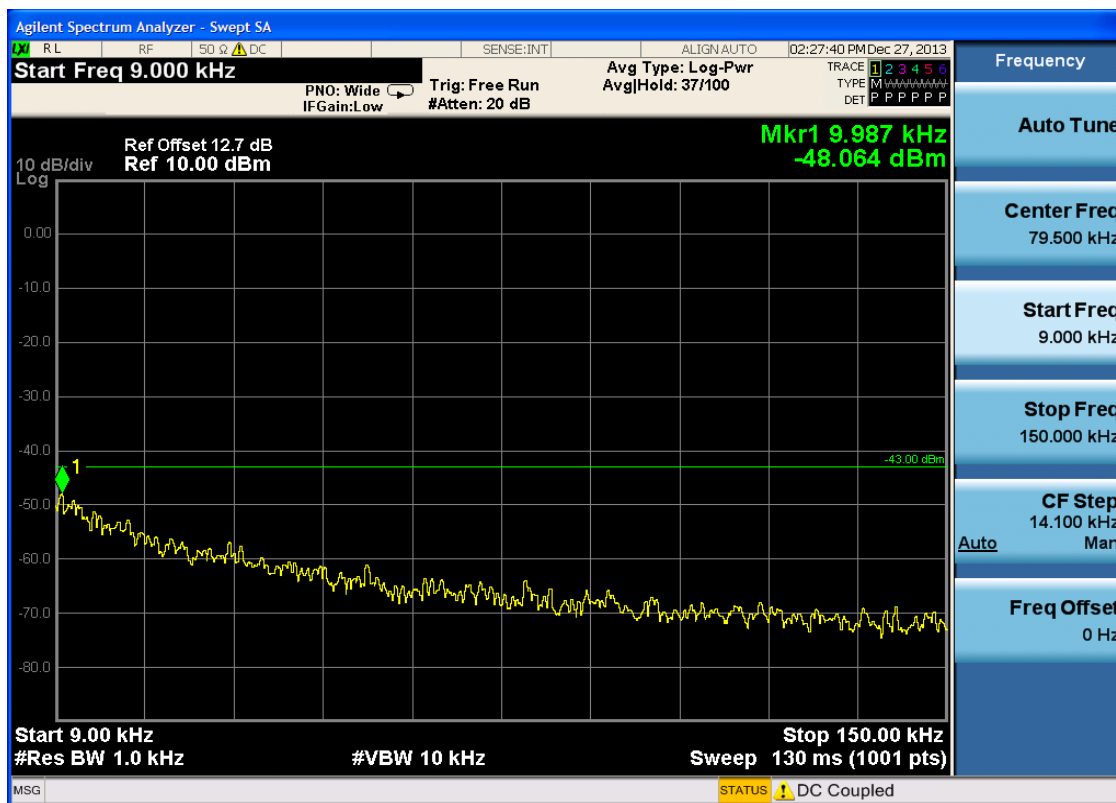


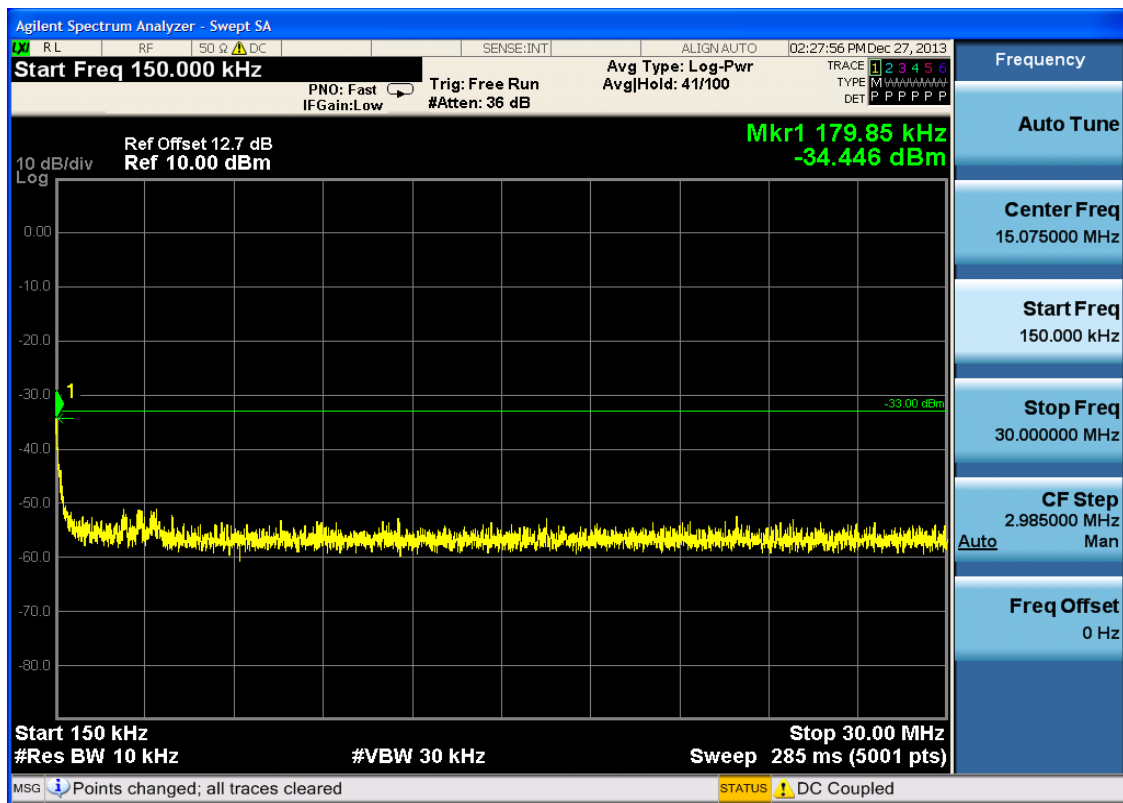


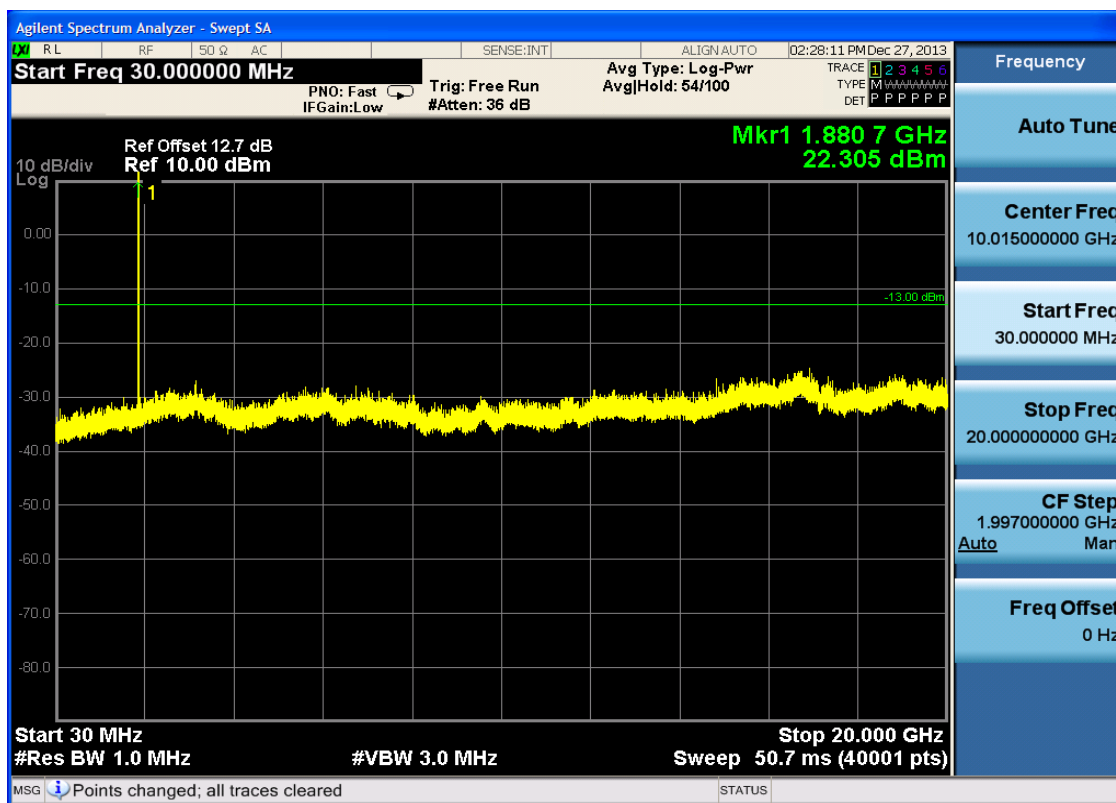




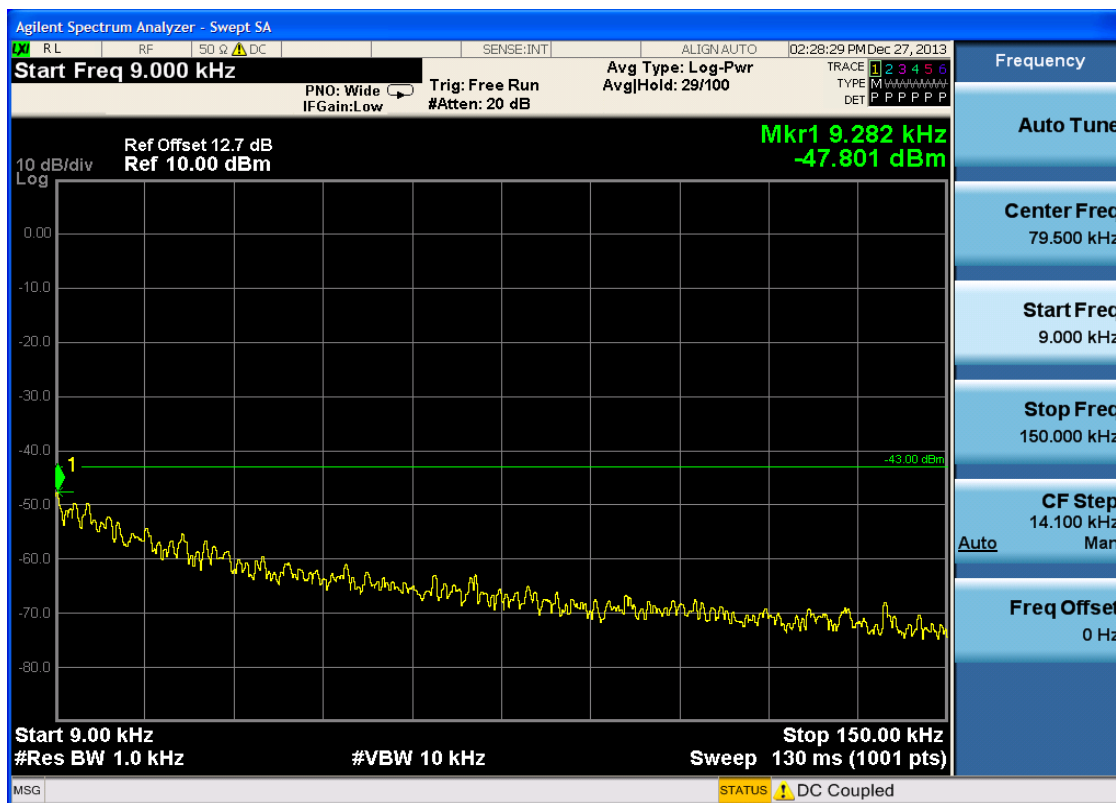
6.2.2.1.2 Test Channel = MCH

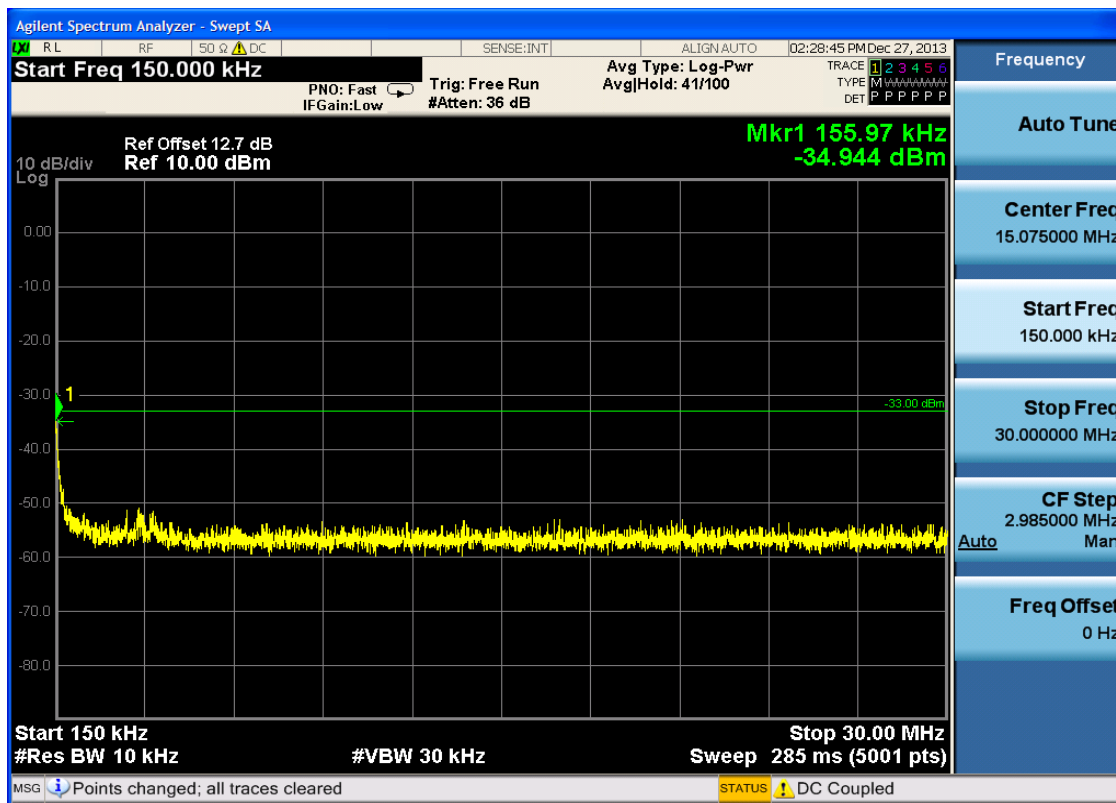


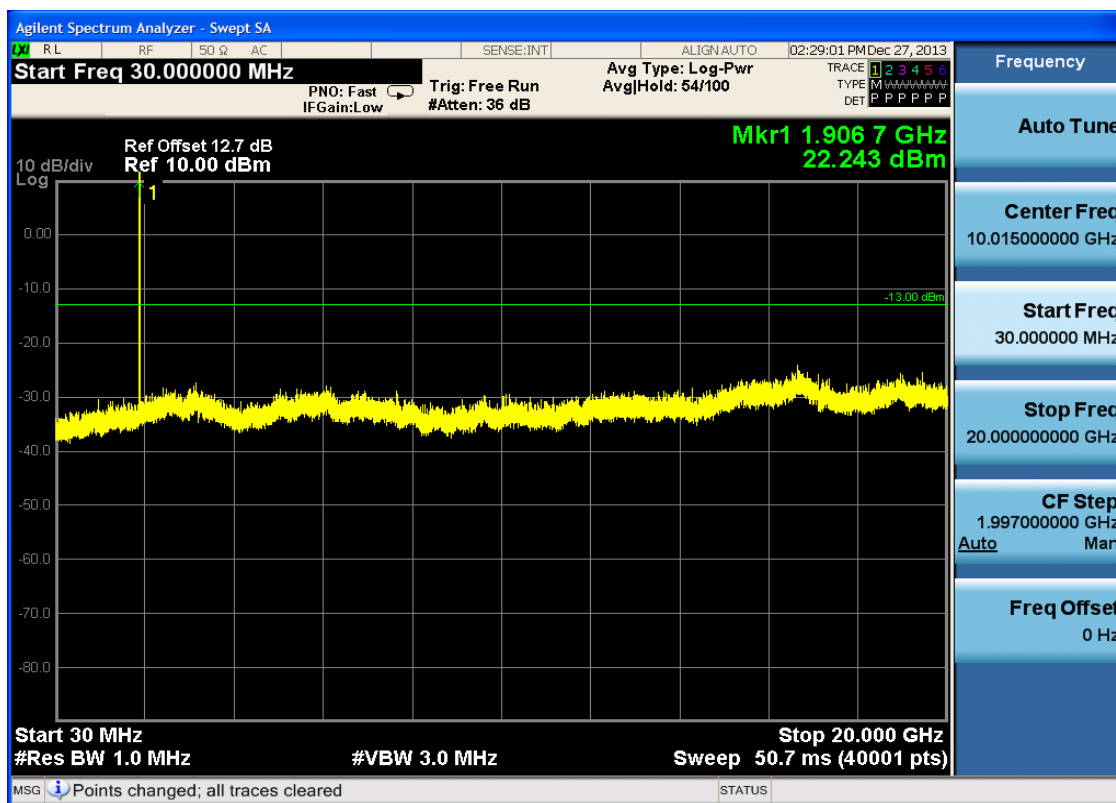




6.2.2.1.3 Test Channel = HCH







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

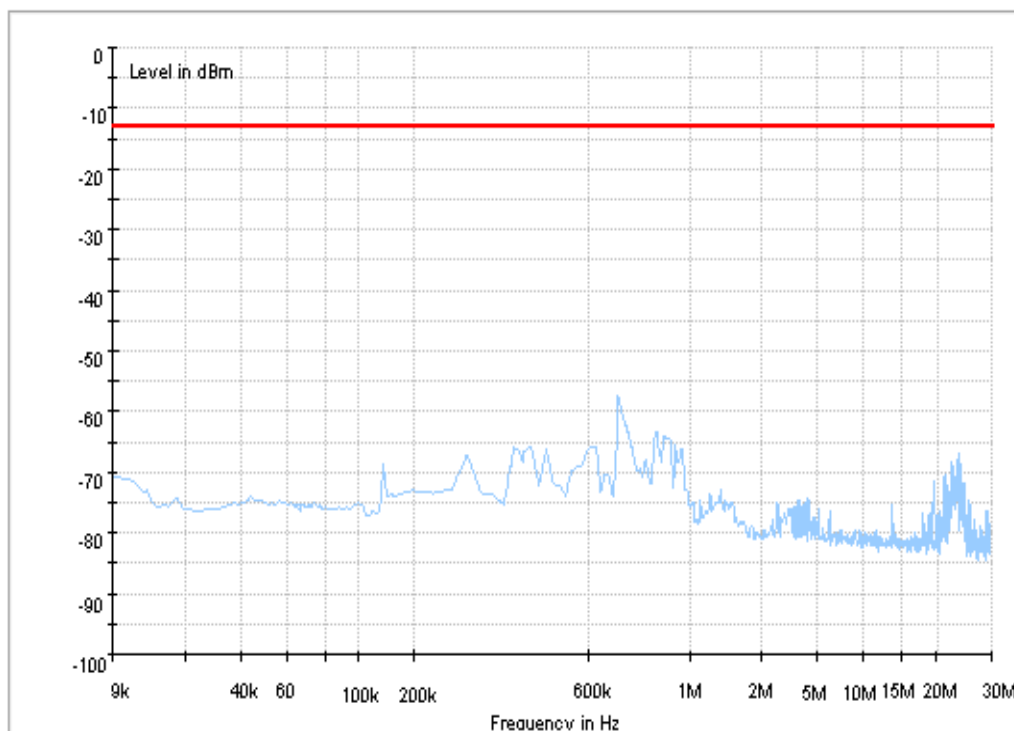
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

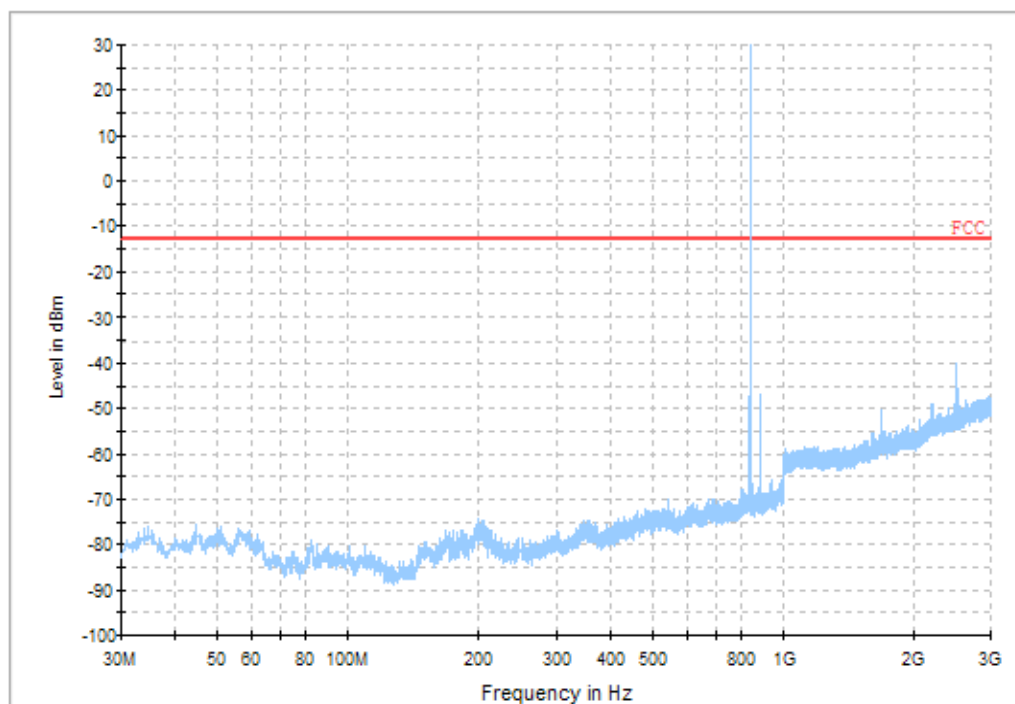
7.1 For GSM

7.1.1 Test Band = GSM850

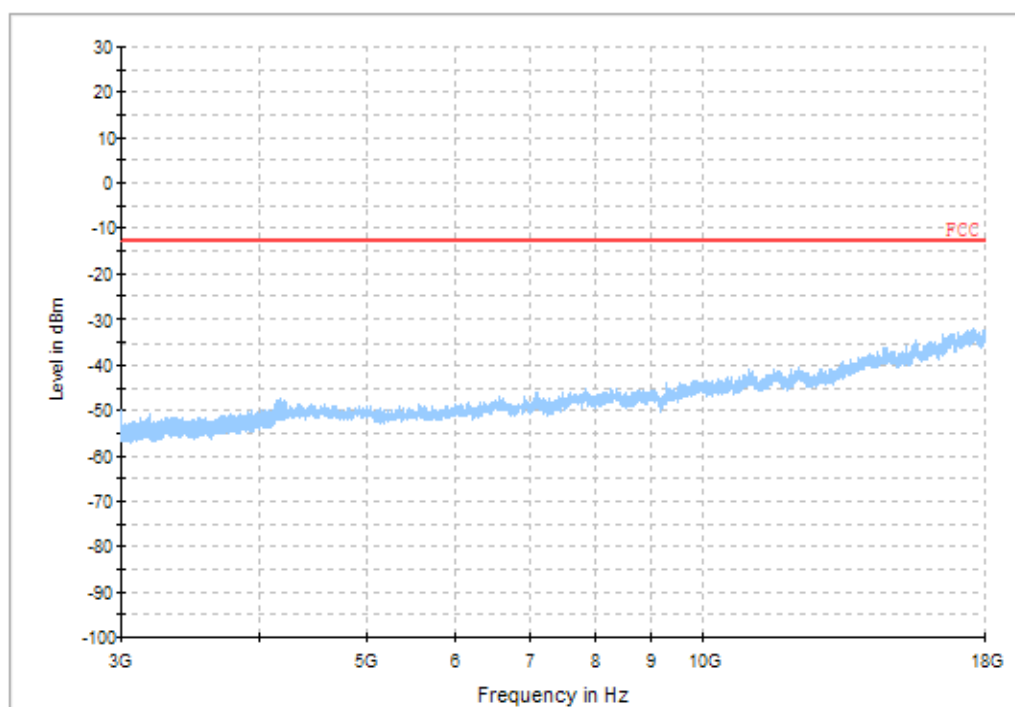
7.1.1.2 Test Mode = GSM/TM1



Copy of FCC PART22 GSM850_L

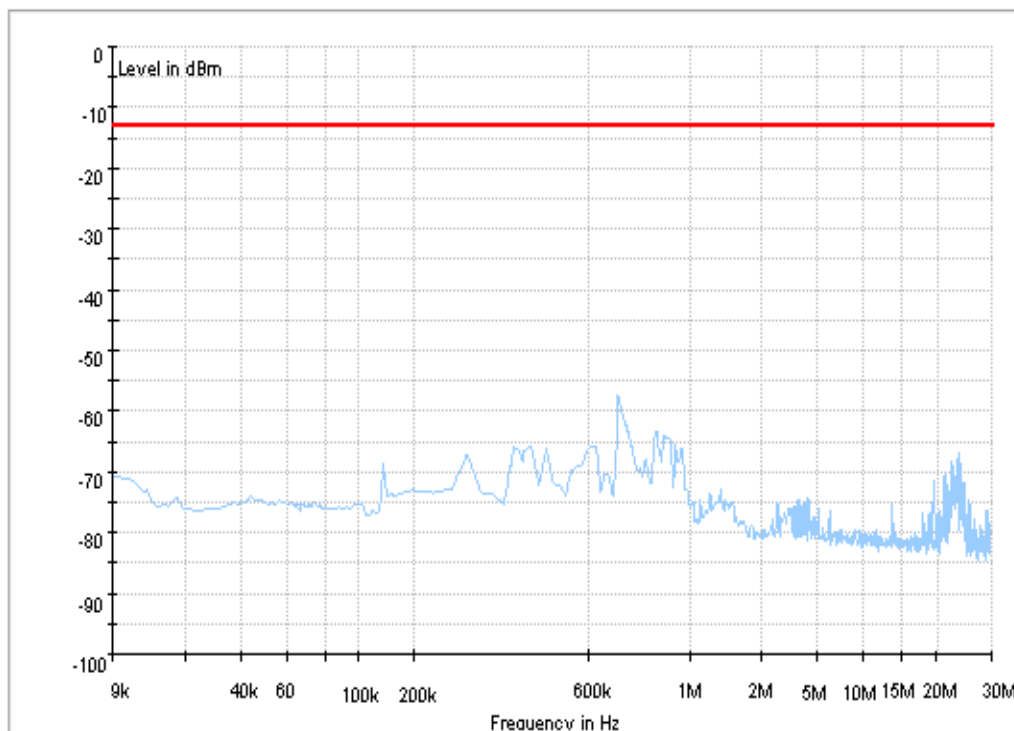


Copy of FCC PART22 GSM850_H

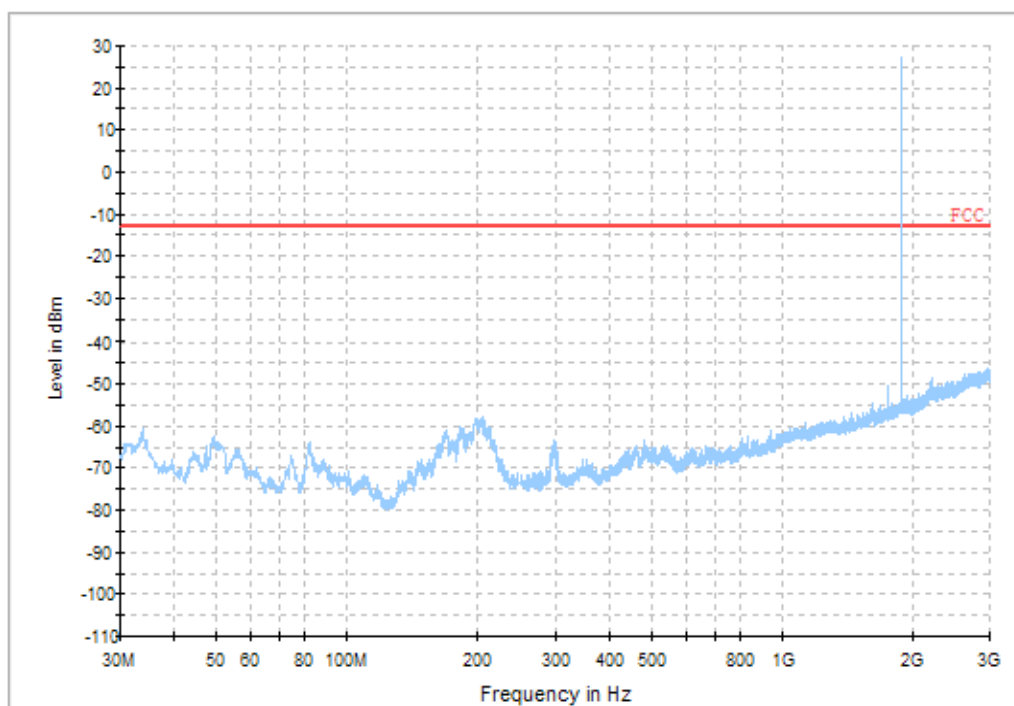


7.1.2 Test Band = GSM1900

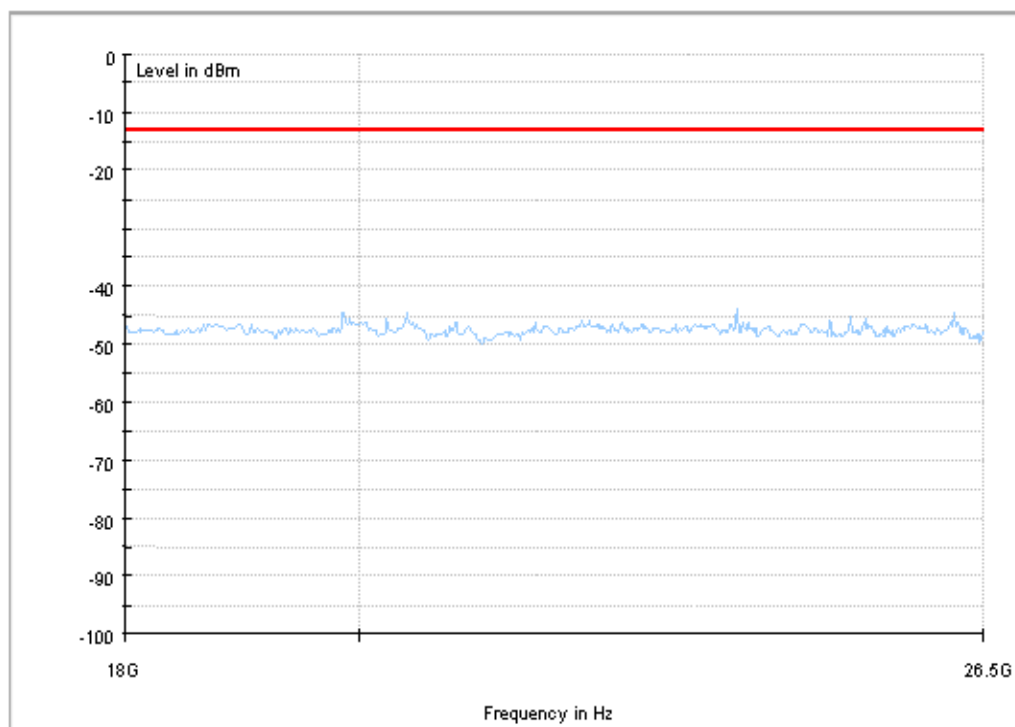
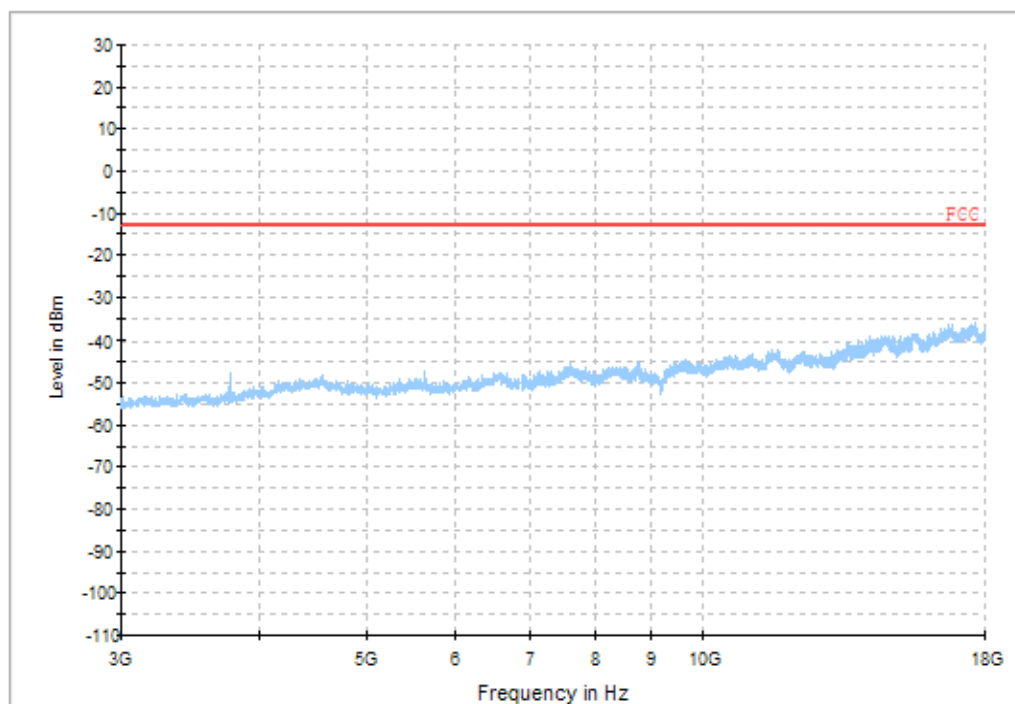
7.1.2.2 Test Mode = GSM/TM1



Copy of FCC PART24 GSM1900_L



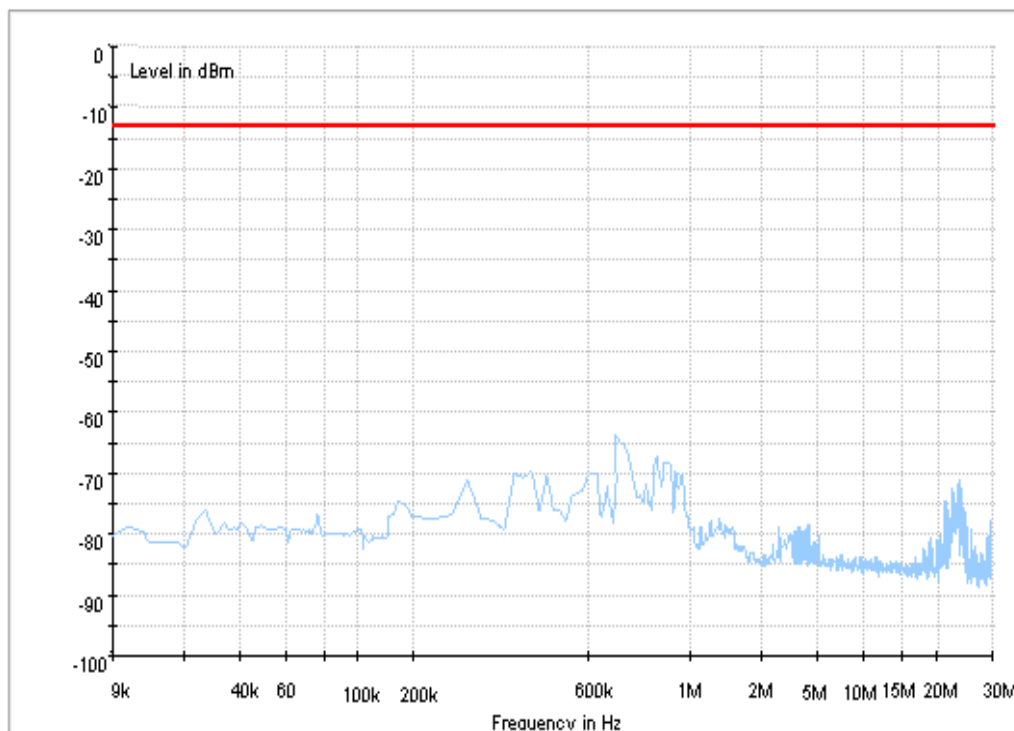
Copy of FCC PART24 GSM1900_H



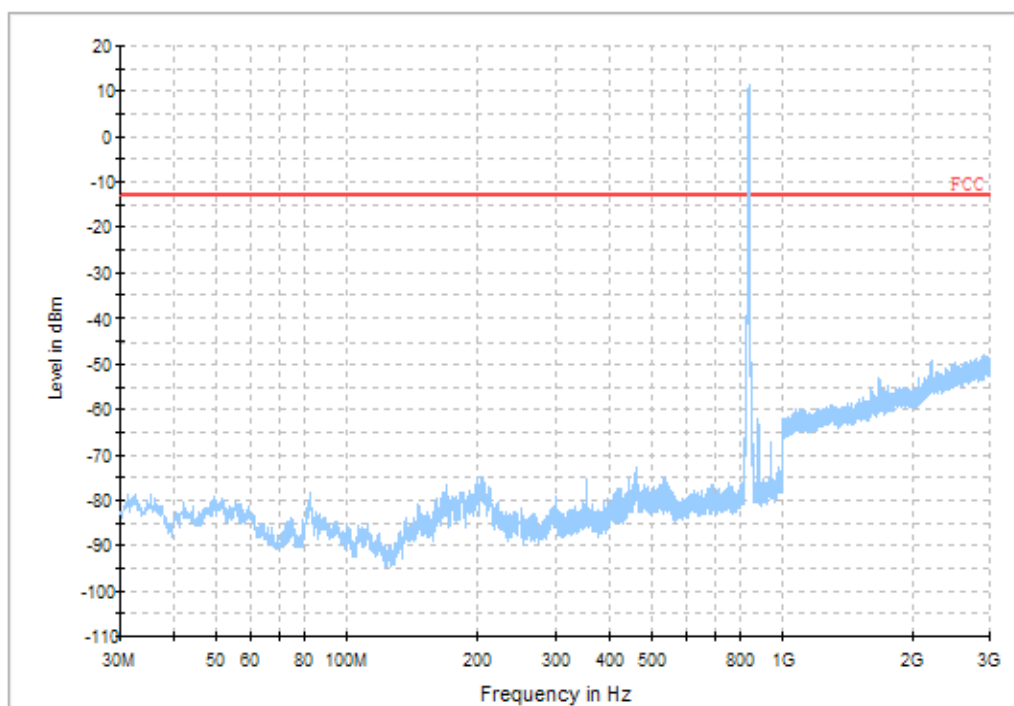
7.2 For UMTS

7.2.1 Test Band = WCDMA850

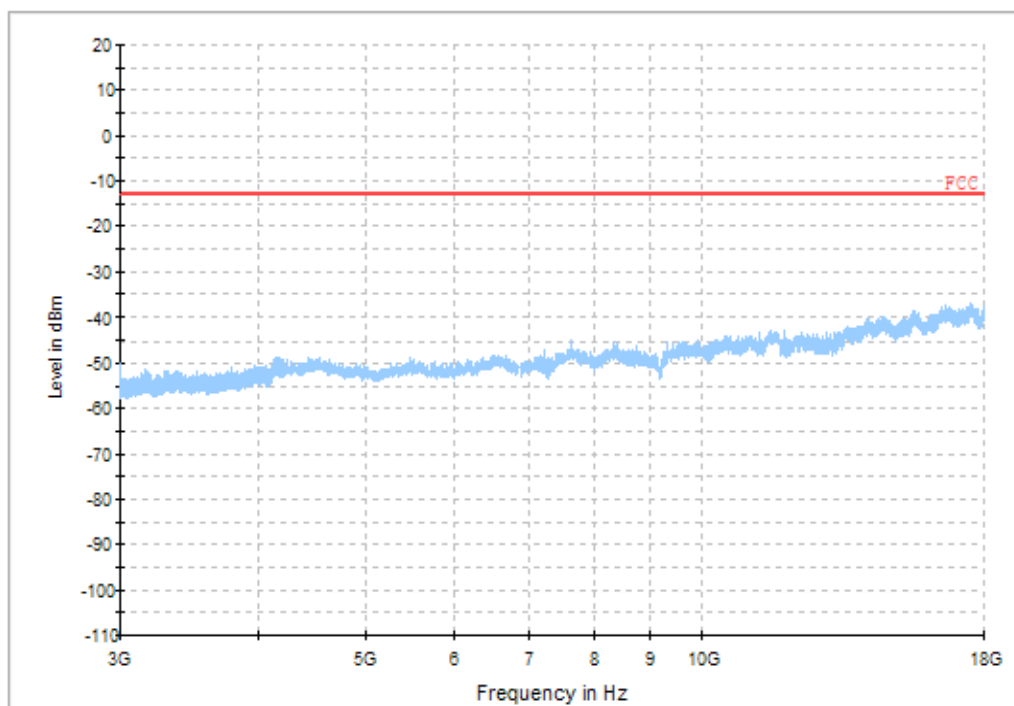
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

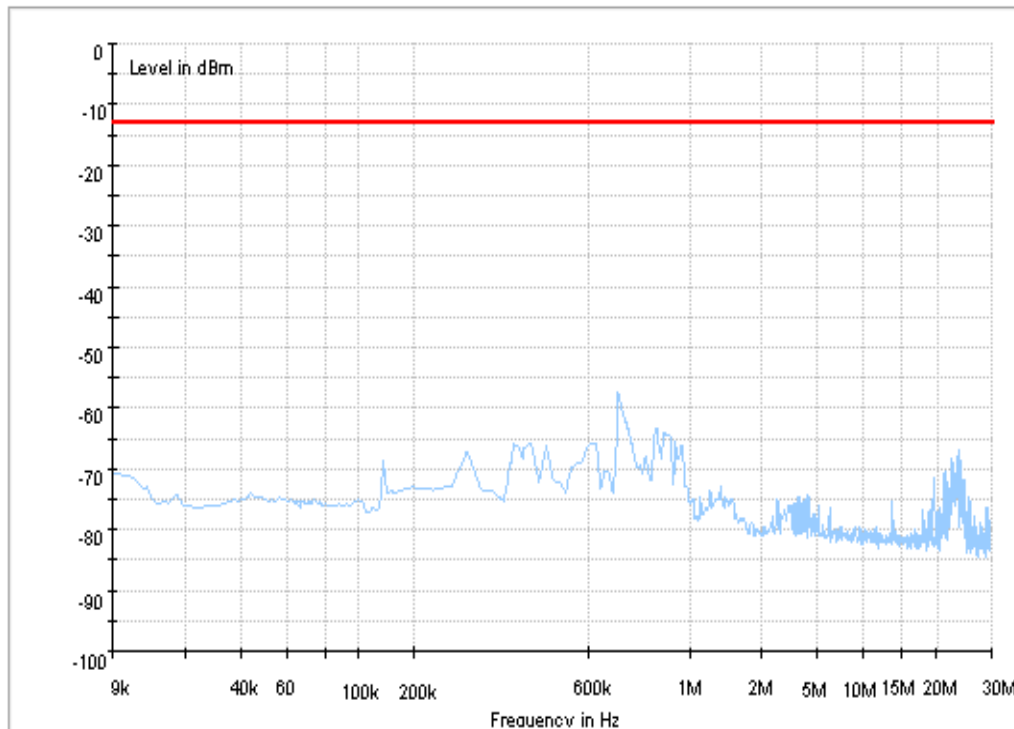


Copy of FCC PART22 WCDMA850_H

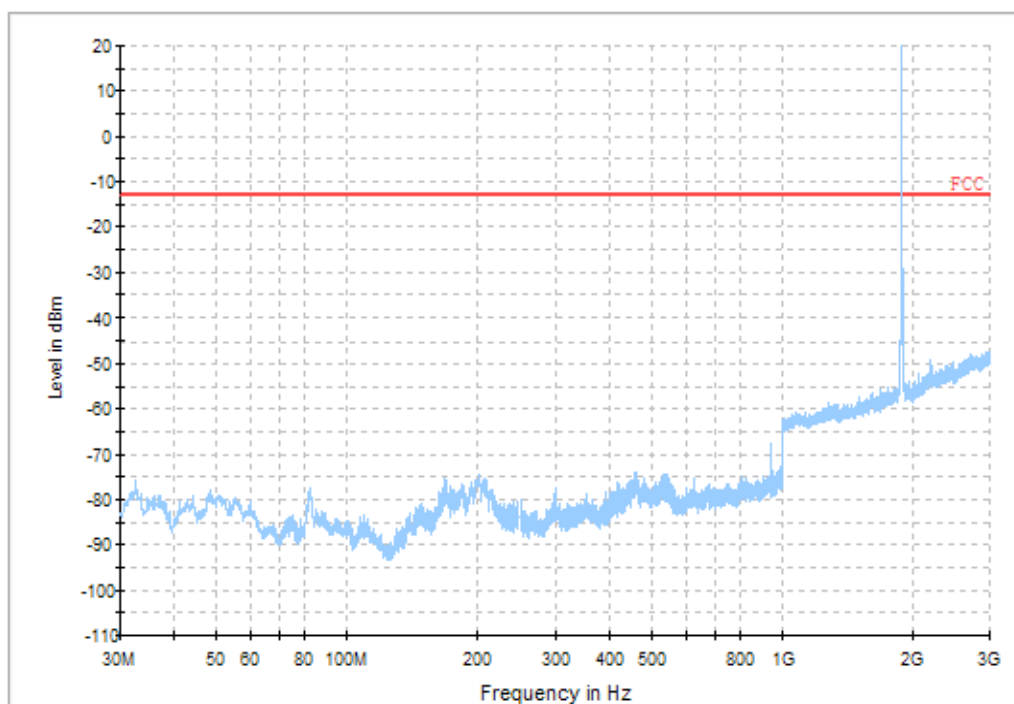


7.2.2 Test Band = WCDMA1900

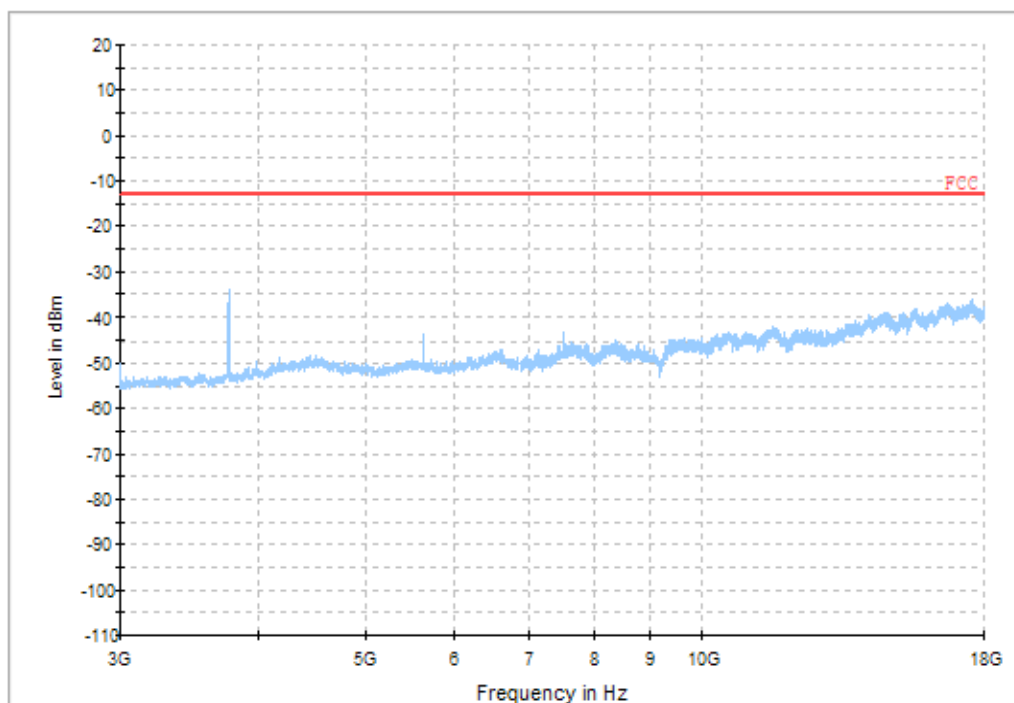
7.2.2.1 Test Mode = UMTS/TM1

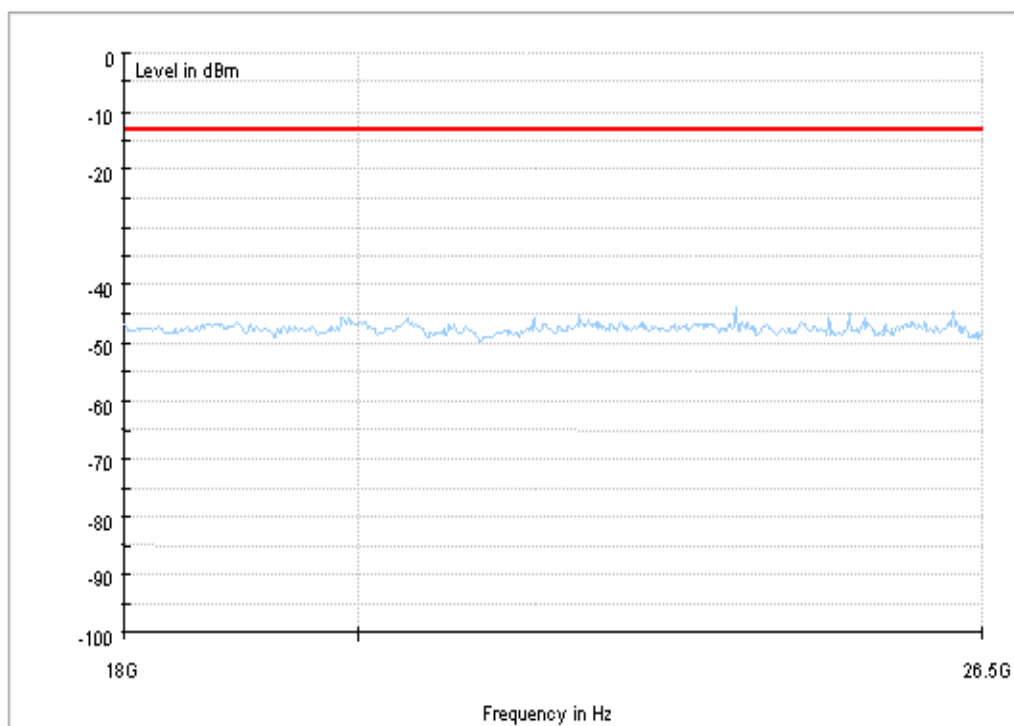


Copy of FCC PART24 WCDMA1900_L



Copy of FCC PART24 WCDMA1900_H





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	-10.98	-0.01332	PASS
				VN	-11.75	-0.01426	PASS
				VH	-9.56	-0.0116	PASS
		MCH	TN	VL	-7.1	-0.00849	PASS
				VN	-6.91	-0.00826	PASS
				VH	-5.17	-0.00618	PASS
		HCH	TN	VL	-7.94	-0.00935	PASS
				VN	-9.62	-0.01133	PASS
				VH	-6.72	-0.00792	PASS
	GSM/TM2	LCH	TN	VL	-12.33	-0.01496	PASS
				VN	-6.94	-0.00842	PASS
				VH	-6.46	-0.00784	PASS
		MCH	TN	VL	-6.01	-0.00718	PASS
				VN	-9.4	-0.01124	PASS
				VH	-9.81	-0.01173	PASS
		HCH	TN	VL	-3.78	-0.00445	PASS
				VN	-6.49	-0.00765	PASS
				VH	-8.27	-0.00974	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-2.26	-0.00122	PASS
				VN	-10.14	-0.00548	PASS
				VH	-10.33	-0.00558	PASS
		MCH	TN	VL	8.98	0.00478	PASS
				VN	22.28	0.01185	PASS
				VH	15.43	0.00821	PASS
		HCH	TN	VL	2.32	0.00121	PASS
				VN	5.94	0.00311	PASS
				VH	9.56	0.00501	PASS
	GSM/TM2	LCH	TN	VL	-14.21	-0.00768	PASS
				VN	-28.12	-0.0152	PASS
				VH	-22.12	-0.01196	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	-2.16	-0.00115	PASS
				VN	0.1	0.00005	PASS
				VH	9.33	0.00496	PASS
		HCH	TN	VL	2.03	0.00106	PASS
				VN	-2.32	-0.00121	PASS
				VH	-9.72	-0.00509	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	-9.69	-0.01176	PASS
				-20	-10.85	-0.01316	PASS
				-10	-10.72	-0.01301	PASS
				0	-9.43	-0.01144	PASS
				10	-10.33	-0.01253	PASS
				20	-10.4	-0.01262	PASS
				30	-10.14	-0.0123	PASS
				40	-10.72	-0.01301	PASS
				50	-9.43	-0.01144	PASS
		MCH	VN	-30	-3.29	-0.00393	PASS
				-20	-6.39	-0.00764	PASS
				-10	-2.78	-0.00332	PASS
				0	-4.78	-0.00571	PASS
				10	-6.52	-0.00779	PASS
				20	-3.16	-0.00378	PASS
				30	-3.87	-0.00463	PASS
				40	-5.1	-0.0061	PASS
				50	-7.68	-0.00918	PASS
		HCH	VN	-30	-2.52	-0.00297	PASS
				-20	-5.68	-0.00669	PASS
				-10	-5.29	-0.00623	PASS
				0	-9.94	-0.01171	PASS
				10	-6.84	-0.00806	PASS
				20	-6.33	-0.00746	PASS
				30	-7.81	-0.0092	PASS
				40	-5.81	-0.00684	PASS
				50	-7.36	-0.00867	PASS
	GSM/TM2	LCH	VN	-30	-11.82	-0.01434	PASS
				-20	-5.07	-0.00615	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-10	-6.2	-0.00752	PASS
				0	-10.2	-0.01238	PASS
				10	-13.82	-0.01677	PASS
				20	-12.88	-0.01563	PASS
				30	-12.11	-0.01469	PASS
				40	-9.98	-0.01211	PASS
				50	-13.46	-0.01633	PASS
		MCH	VN	-30	-9.75	-0.01165	PASS
				-20	-8.23	-0.00984	PASS
				-10	-6.2	-0.00741	PASS
				0	-9.17	-0.01096	PASS
				10	-9.75	-0.01165	PASS
				20	-11.88	-0.0142	PASS
				30	-13.82	-0.01652	PASS
				40	-14.82	-0.01771	PASS
				50	-15.27	-0.01825	PASS
		HCH	VN	-30	-5.97	-0.00703	PASS
				-20	-9.33	-0.01099	PASS
				-10	-10.62	-0.01251	PASS
				0	-5.13	-0.00604	PASS
				10	-8.59	-0.01012	PASS
				20	-5.13	-0.00604	PASS
				30	-7.39	-0.00871	PASS
				40	-9.17	-0.0108	PASS
				50	-1.16	-0.00137	PASS
GSM1900	GSM/TM1	LCH	VN	-30	-10.33	-0.00558	PASS
				-20	-1.81	-0.00098	PASS
				-10	-4.97	-0.00269	PASS
				0	-7.75	-0.00419	PASS
				10	-3.03	-0.00164	PASS
				20	-8.59	-0.00464	PASS
				30	-13.56	-0.00733	PASS
				40	-12.66	-0.00684	PASS
				50	-4.52	-0.00244	PASS
		MCH	VN	-30	22.54	0.01199	PASS
				-20	20.6	0.01096	PASS
				-10	14.14	0.00752	PASS
				0	21.37	0.01137	PASS
				10	21.05	0.0112	PASS
				20	18.14	0.00965	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				30	19.5	0.01037	PASS
				40	24.34	0.01295	PASS
				50	18.73	0.00996	PASS
		HCH	VN	-30	3.62	0.0019	PASS
				-20	6.97	0.00365	PASS
				-10	6.97	0.00365	PASS
				0	8.33	0.00436	PASS
				10	7.55	0.00395	PASS
				20	7.17	0.00375	PASS
				30	8.78	0.0046	PASS
				40	10.33	0.00541	PASS
				50	4.78	0.0025	PASS
	GSM/TM2	LCH	VN	-30	-25.47	-0.01377	PASS
				-20	-27.48	-0.01485	PASS
				-10	-21.28	-0.0115	PASS
				0	-25.86	-0.01398	PASS
				10	-24.21	-0.01309	PASS
				20	-22.89	-0.01237	PASS
				30	-36.35	-0.01965	PASS
				40	-21.44	-0.01159	PASS
				50	-27.51	-0.01487	PASS
		MCH	VN	-30	9.91	0.00527	PASS
				-20	18.98	0.0101	PASS
				-10	10.98	0.00584	PASS
				0	7.75	0.00412	PASS
				10	5.75	0.00306	PASS
				20	14.88	0.00791	PASS
				30	6.94	0.00369	PASS
				40	1.78	0.00095	PASS
				50	16.24	0.00864	PASS
		HCH	VN	-30	1.26	0.00066	PASS
				-20	-11.59	-0.00607	PASS
				-10	-14.24	-0.00746	PASS
				0	-14.43	-0.00756	PASS
				10	-3.36	-0.00176	PASS
				20	-4.36	-0.00228	PASS
				30	-9.62	-0.00504	PASS
				40	-1.23	-0.00064	PASS
				50	0.16	0.00008	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	-0.21	-0.00025	PASS
				VN	5.13	0.00621	PASS
				VH	6.1	0.00738	PASS
		MCH	TN	VL	3.49	0.00417	PASS
				VN	-4.97	-0.00594	PASS
				VH	-0.11	-0.00013	PASS
		HCH	TN	VL	-6.13	-0.00724	PASS
				VN	5.51	0.00651	PASS
				VH	6.9	0.00815	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	8.47	0.00457	PASS
				VN	7.6	0.0041	PASS
				VH	4.96	0.00268	PASS
		MCH	TN	VL	0.9	0.00048	PASS
				VN	-1.97	-0.00105	PASS
				VH	3.86	0.00205	PASS
		HCH	TN	VL	-1.5	-0.00079	PASS
				VN	18.25	0.00957	PASS
				VH	12.51	0.00656	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	2.87	0.00347	PASS
				-20	8.38	0.01014	PASS
				-10	3.72	0.0045	PASS
				0	1.46	0.00177	PASS
				10	8.48	0.01026	PASS
				20	-1.22	-0.00148	PASS
				30	-0.93	-0.00113	PASS
				40	-0.9	-0.00109	PASS
				50	3.57	0.00432	PASS
		MCH	VN	-30	10.06	0.01203	PASS
				-20	-0.31	-0.00037	PASS
				-10	5.69	0.0068	PASS
				0	-1.24	-0.00148	PASS
				10	1.22	0.00146	PASS
				20	3.17	0.00379	PASS
				30	2.49	0.00298	PASS
				40	3.19	0.00381	PASS
				50	3.94	0.00471	PASS
		HCH	VN	-30	-0.21	-0.00025	PASS
				-20	-3.63	-0.00429	PASS
				-10	0.17	0.0002	PASS
				0	-5.92	-0.00699	PASS
				10	5.14	0.00607	PASS
				20	-5.39	-0.00637	PASS
				30	6.18	0.0073	PASS
				40	3.49	0.00412	PASS
				50	6.47	0.00764	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	5.87	0.00317	PASS
				-20	5.42	0.00293	PASS
				-10	15	0.0081	PASS
				0	2.38	0.00128	PASS
				10	12.08	0.00652	PASS
				20	-8.03	-0.00433	PASS
				30	-2.61	-0.00141	PASS
				40	-2.98	-0.00161	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	VN	50	7.75	0.00418	PASS
				-30	-0.09	-0.00005	PASS
				-20	14.63	0.00778	PASS
				-10	8.77	0.00466	PASS
				0	7.03	0.00374	PASS
				10	14.18	0.00754	PASS
				20	5.14	0.00273	PASS
				30	14.65	0.00779	PASS
				40	-7.19	-0.00382	PASS
				50	5.77	0.00307	PASS
		HCH	VN	-30	5.78	0.00303	PASS
				-20	9.19	0.00482	PASS
				-10	10.65	0.00558	PASS
				0	4.07	0.00213	PASS
				10	12.37	0.00648	PASS
				20	10.62	0.00557	PASS
				30	3.97	0.00208	PASS
				40	9.81	0.00514	PASS
				50	-1.24	-0.00065	PASS

END