

TEST REPORT

of

FCC Part 22
FCC ID : STE-QUADCOMM-800

Equipment Under Test : RV-Quadcomm
Model Name : Quadcomm-800
Serial No. : N/A
Applicant : R-tron Inc.
Manufacturer : R-tron Inc.
Date of Test(s) : 2010-07-14 ~ 2010-08-02
Date of Issue : 2010-08-03

In the configuration tested, the EUT complied with the standards specified above.

Tested By:



Feel Jeong

Date

2010-08-17

Approved By



Charles Kim

Date

2010-08-17

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1. General information

1.1. Testing laboratory

SGS Testing Korea Co., Ltd.

- 705, Dongchun-Dong Sooji-Gu, Yongin-Shi, Kyungki-Do, South Korea.
- Wireless Div. 2FL, 18-34, Sanbon-dong, Gunpo-si, Gyeonggi-do, Korea 435-040

www.electrolab.kr.sgs.com

Telephone : +82 +31 428 5700

FAX : +82 +31 427 2371

1.2. Details of applicant

Applicant : R-tron Inc.
Address : Jisan IT Venture Center 3F, 1004-9 Doksna-Dong, Gumchon-Gu, Seoul, Korea
Contact Person : You-Sik, Choi
Phone No. : 82-2-6343-1023

1.3. Description of EUT

Kind of Product	RV-Quadcomm
Model Name	Quadcomm-800
Serial Number	N/A
Power Supply	110 ~ 220 Vac
Rated Power	25 dBm (Uplink, Downlink)
Frequency Range	824 MHz ~ 849 MHz(Uplink), 869 MHz ~ 894 MHz(Downlink)
Antenna Gain	3 dB i(Yagi_Uplink), 3 dB i(Patch_Downlink)

1.4. Description of test mode

Uplink mode

Test mode	Channel	Channel No.	Frequency (MHz)	Measured Channel Power	
				dB m	mW
CDMA2000	Low	1013	824.70	25.34	342
	Mid	363	835.89	25.16	328
	High	777	848.31	24.77	300
EV-DO	Low	1013	824.70	25.25	335

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Downlink mode

Test mode	Channel	Channel No.	Frequency (MHz)	Measured Channel Power	
				dB m	mW
CDMA2000	Low	1013	869.70	25.05	320
	Mid	363	880.89	25.54	358
	High	777	893.31	25.54	358
EV-DO	High	777	893.31	25.41	348

We found out the test mode with the highest power level after we analyze. So we chose CDMA2000 (worst case) as a representative.

1.5. Test equipment list

Equipment	Manufacturer	Model	Cal Due.
Signal Generator	Agilent	E4438C	Mar. 31, 2011
Signal Generator	Rohde & Schwarz	SMR40	Sep. 25, 2010
Spectrum Analyzer	Agilent	E4440A	Mar. 31, 2011
Power Divider	Agilent	87302C	Jan. 07, 2011
Attenuator	Agilent	8498A	Apr. 01, 2011
High Pass Filter	Wainwright	WHK3.0/18G-10SS	Sep. 29, 2010
Band Reject Filter	Wainwright	WRCG824/849-814/85 960/10SS	Apr. 01, 2011
AC power Supply	Deakwang	Slidas	Sep. 25, 2010
Preamplifier	H.P.	8447F	Jun. 05, 2011
Preamplifier	Empower RF Systems, Inc	2002-BBSC4AEL	Mar. 31, 2011
Test Receiver	R & S	ESU26	Apr. 15, 2011
Bilog Antenna	SCHWARZBECK MESSELEKTRONIK	VULB9163	Jun. 22, 2011
Horn Antenna	Rohde & Schwarz	HF 906	Oct. 08, 2011
Horn Antenna	SCHWARZBECK	BBH 9120D	Nov. 09, 2011
Dipole Antenna	VHAP/UHAP	975/958	Oct. 10, 2011
Antenna Master	EMCO	1050	N.C.R
Turn Table	Daeil EMC	DI-1500	N.C.R
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	Jan. 27, 2011

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1.6. Summary of test results

The EUT has been tested according to the following specifications:

APPLIED STANDARD : FCC Part 22		
Section in FCC part	Test Item	Result
§2.1053 §22.917(e)	Spurious Radiated Emission	Complied
§2.1046(a)	Conducted Output Power	Complied
§2.1049(h) (i)	Occupied Bandwidth	Complied
§2.1051 §22.917(e)	Spurious Emission at Antenna Terminal	Complied
§2.1055 §22.355	Frequency Stability	Complied
§22.917(e)	Band Edge	Complied
§1.1307(b)(1)	Maximum Permissible Exposure (Exposure of Humans to RF Fields)	Complied

1.7. Test report revision

Revision	Report number	Description
0	F690501/RF-RTL004065	Initial
1	F690501/RF-RTL004065-1	Revised FCC ID

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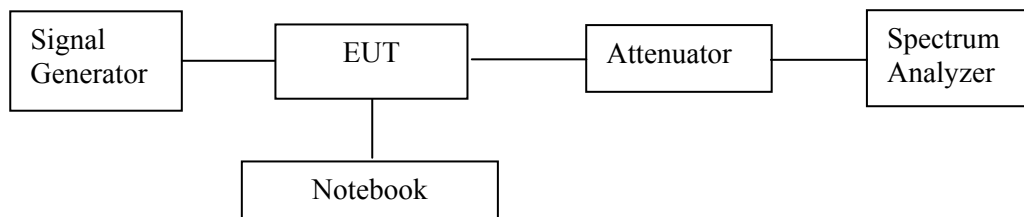
2. RF Output Power

2.1. Limit

Requirements: CFR 47, Section §2.1046

2.2. Test Procedure

1. The transmitter was tested while in a continuous transmit mode.
2. The EUT was tuned to a low, middle, and high channel in both the downlink (base to mobile) and uplink (mobile to base) directions.
3. RF power output was measured with an RF input level at the point just before the compression point of the amplifier.
4. This is the point of maximum RF output power. If the RF input level is increased beyond this point, the amplifier gain (and consequently output power) is automatically reduced.



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2.3. Test Result

Ambient temperature : (24 ± 2) °C
Relative humidity : 47 % R.H.

Cellular band

Uplink mode

Test mode	Channel No.	Frequency (MHz)	Measured Channel Power	
			dB m	mW
Low	1013	824.70	25.34	342
Mid	363	835.89	25.16	328
High	777	848.31	24.77	300

Downlink mode

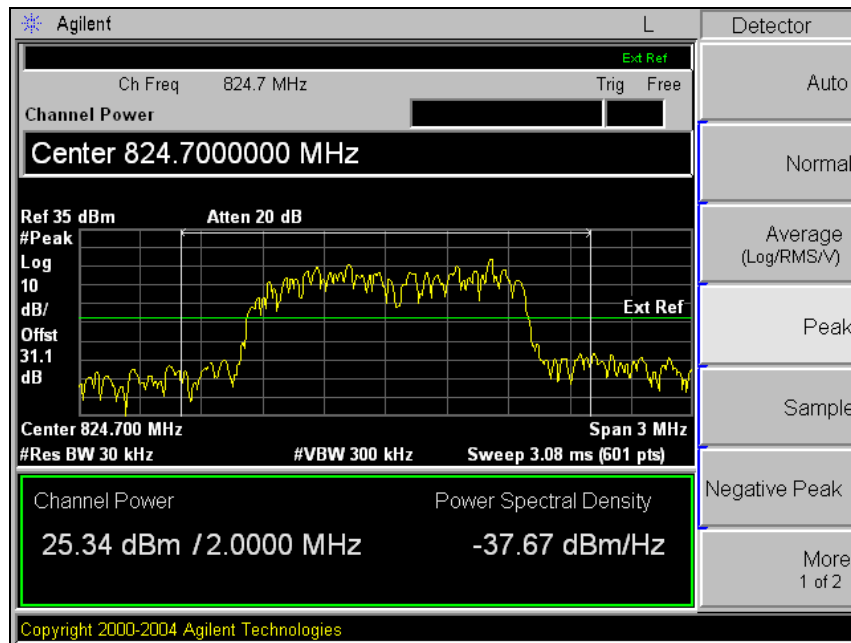
Test mode	Channel No.	Frequency (MHz)	Measured Channel Power	
			dB m	mW
Low	1013	869.70	25.05	320
Mid	363	880.89	25.54	358
High	777	893.31	25.54	358

Please refer to the following plots.

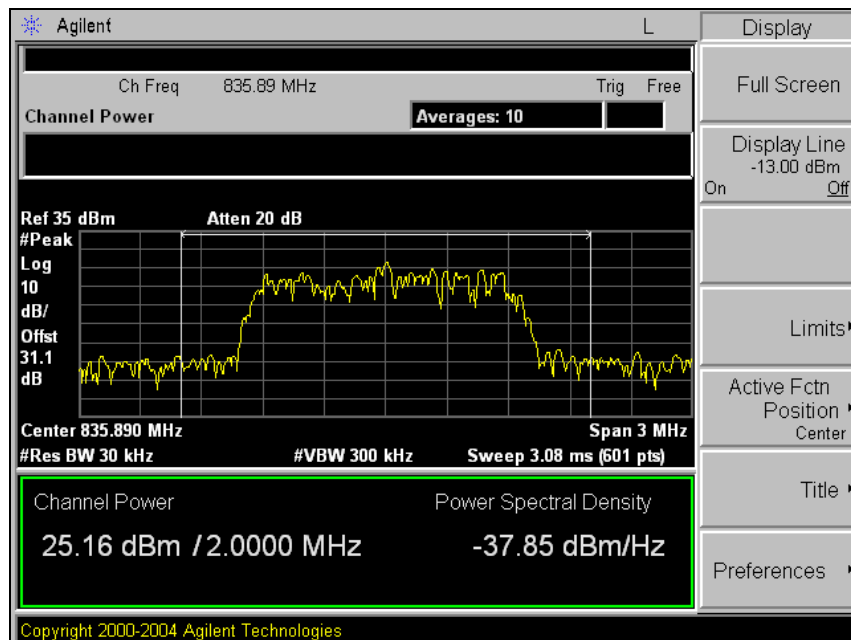
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Cellular(Uplink)

Low Channel

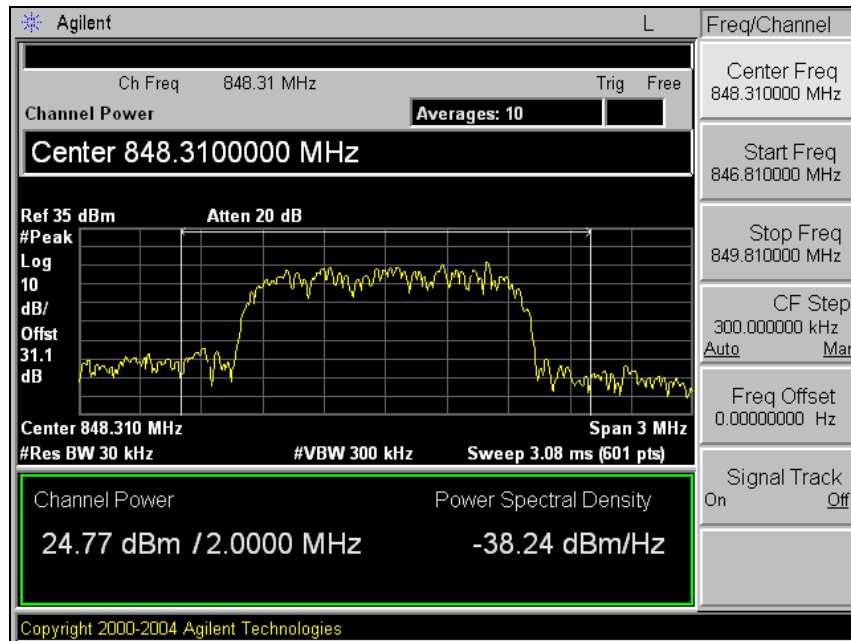


Middle Channel



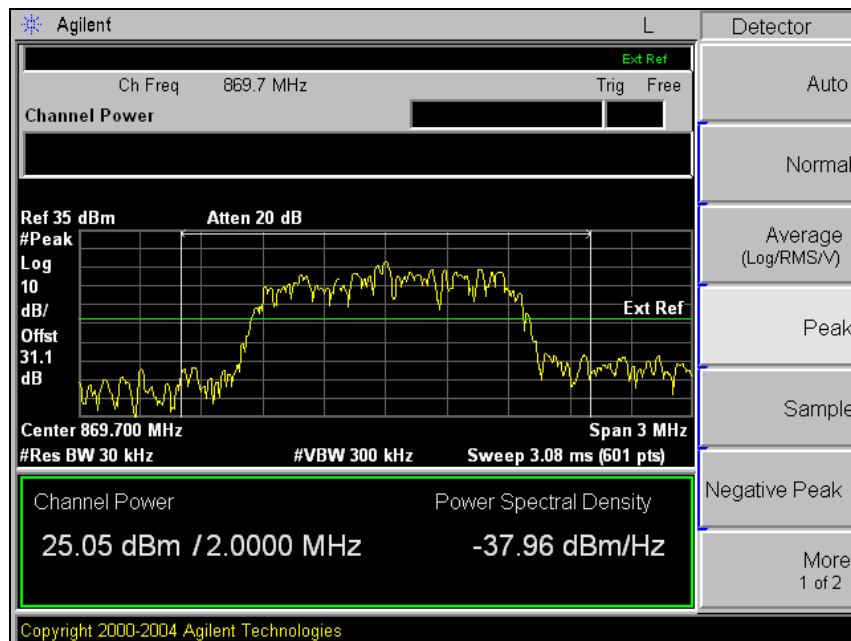
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High Channel



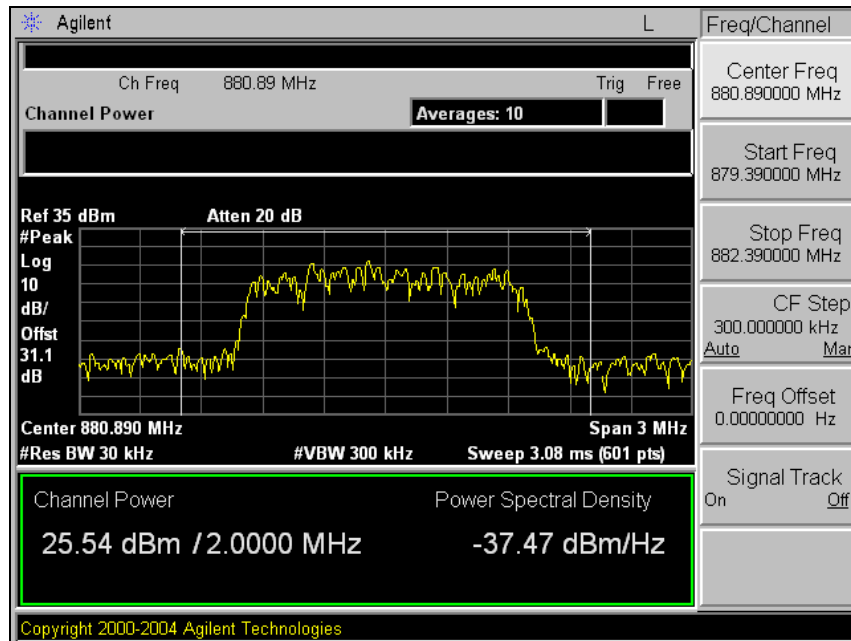
Cellular(Downlink)

Low Channel

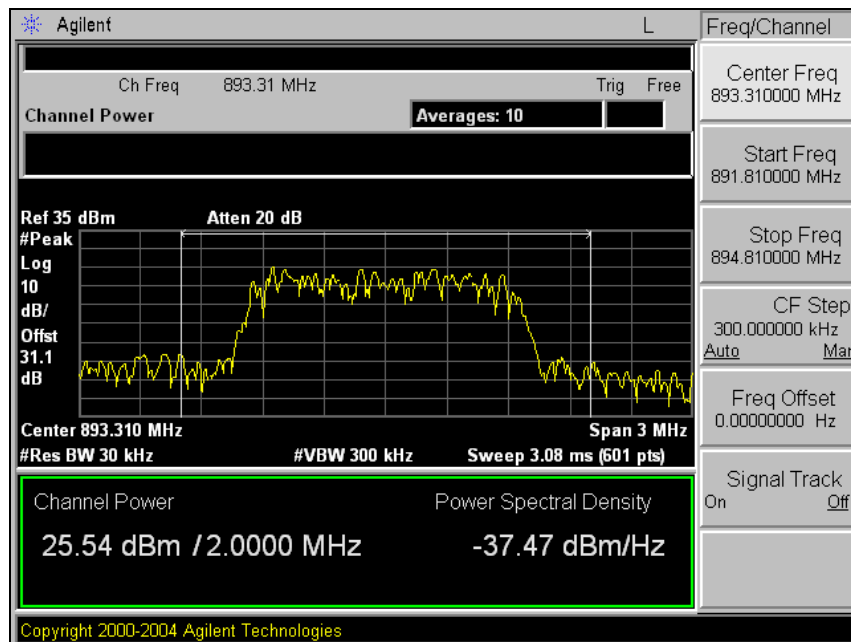


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Middle Channel



High Channel

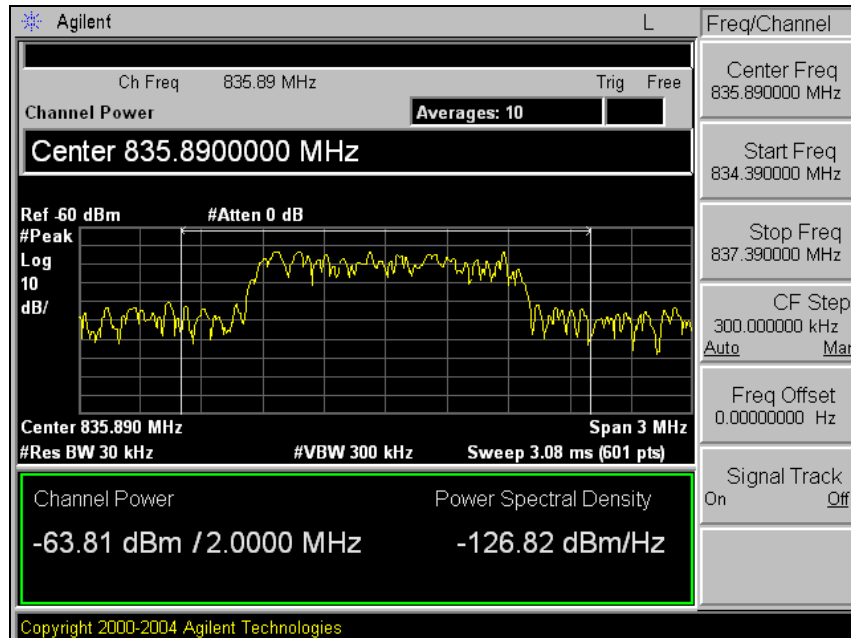


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Input Signal Output Power

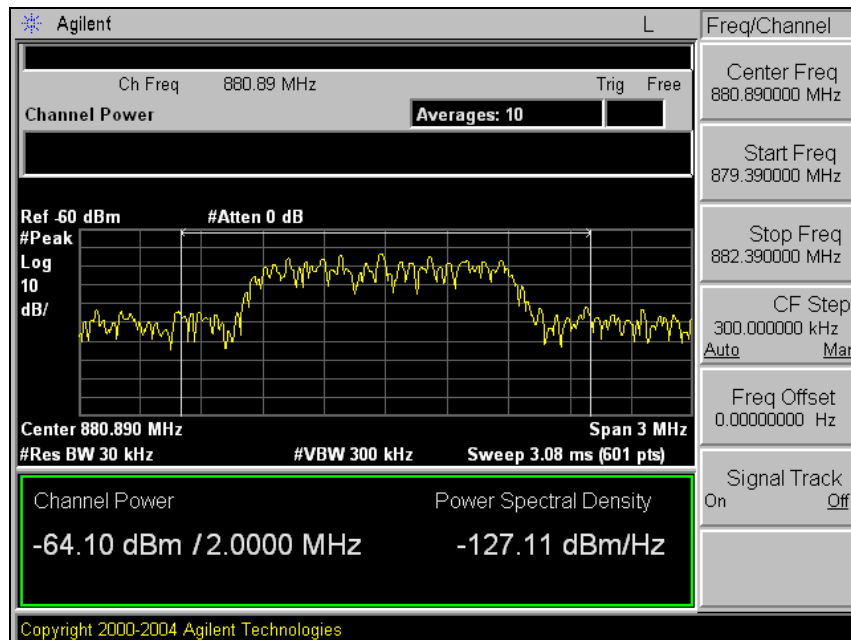
Uplink

Middle Channel



Downlink

Middle Channel



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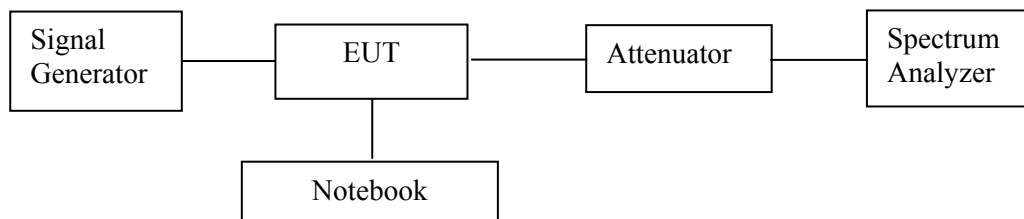
3. Occupied Bandwidth 26 dB

3.1. Limit

Requirements: CFR 47, Section §2.1049.

3.2. Test Procedure

1. The transmitter was tested while in a continuous transmit mode.
2. The EUT was tuned to a low, middle, and high channel in both the downlink (base to mobile) and uplink (mobile to base) directions.
3. The resolution bandwidth of the spectrum analyzer was set at 30 kHz.



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3.3 Test Results

Ambient temperature : (24 ± 2) °C
Relative humidity : 47 % R.H.

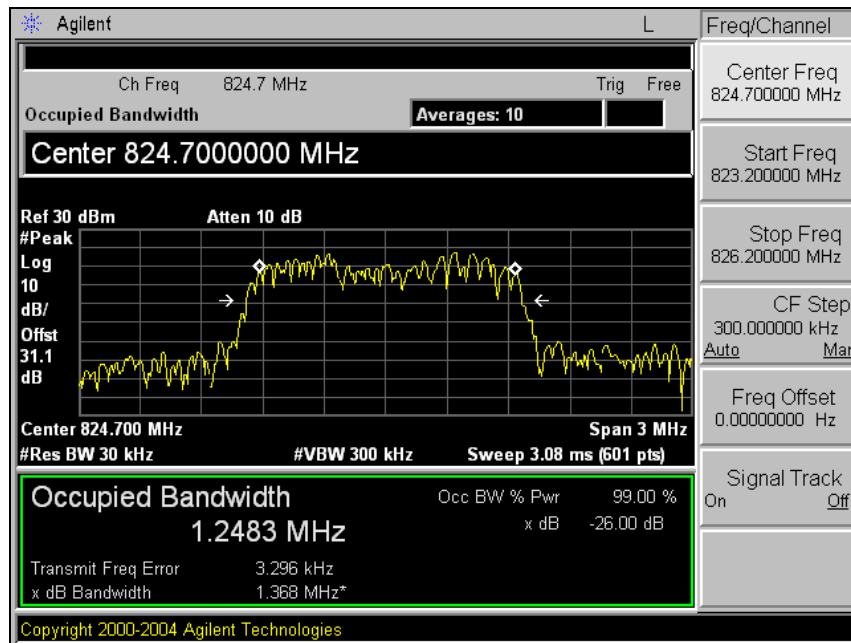
Band	Mode	Frequency (MHz)	Occupied Bandwidth 26 dB (MHz)
Cellular	Uplink	824.70	1.368
		835.89	1.381
		848.31	1.360
	Downlink	869.70	1.376
		880.89	1.381
		893.31	1.367

Please refer to the following plots.

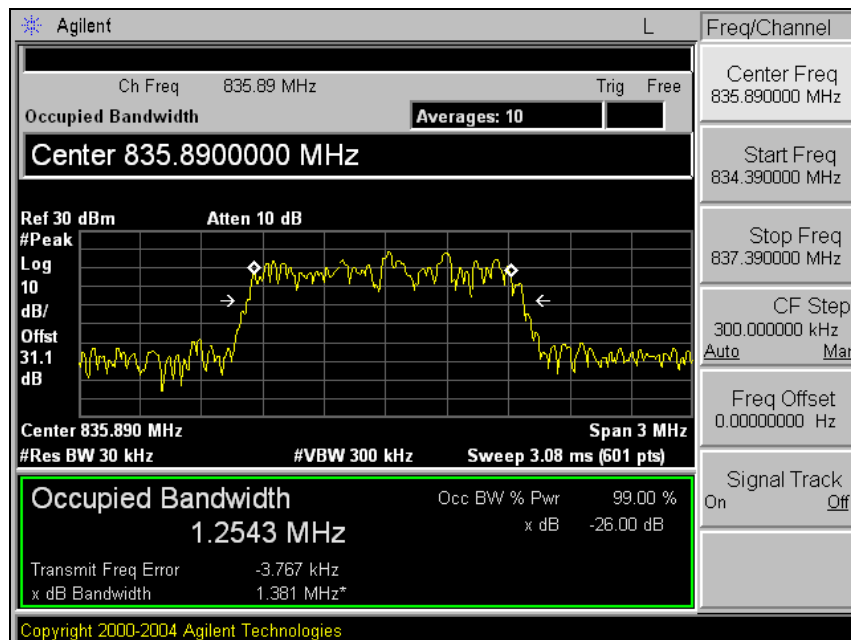
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Cellular(Uplink)

Low Channel

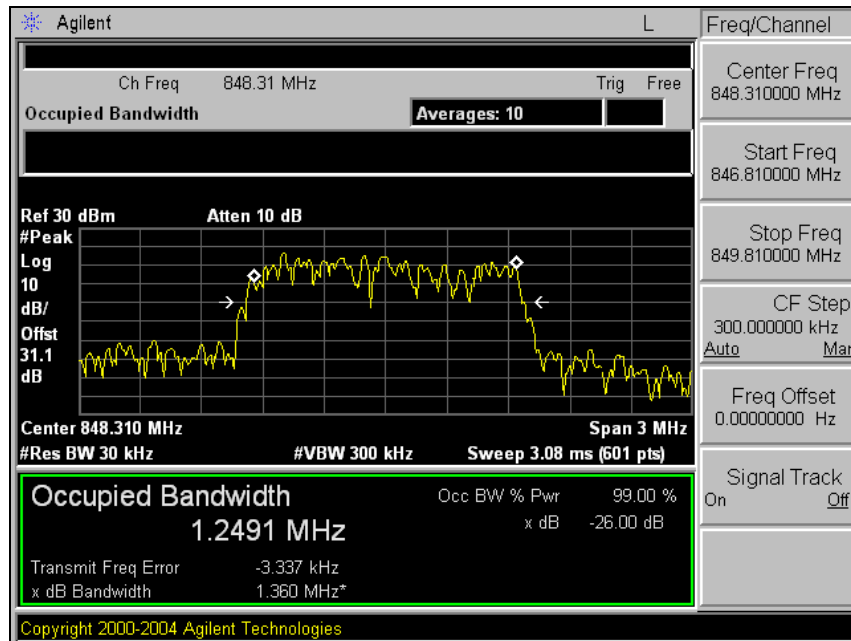


Middle Channel



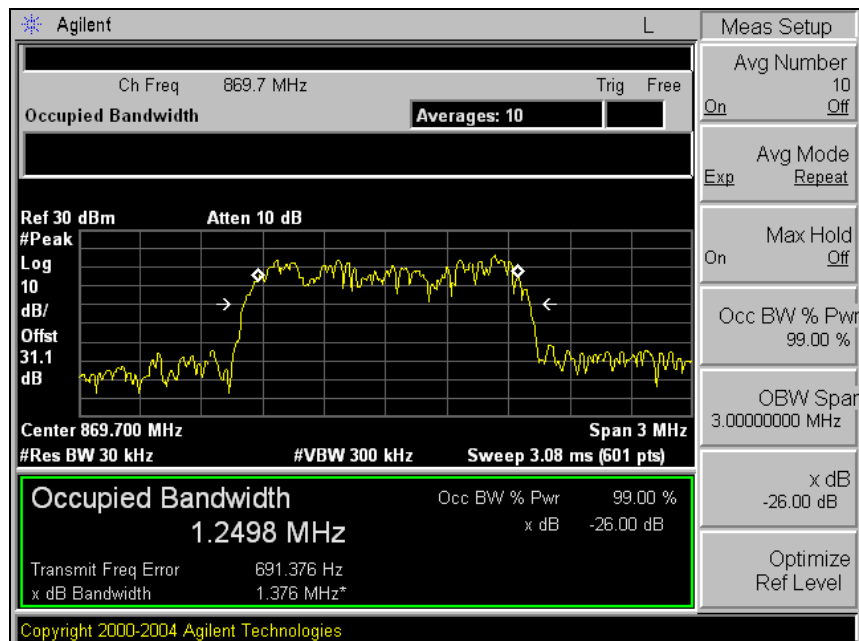
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High Channel



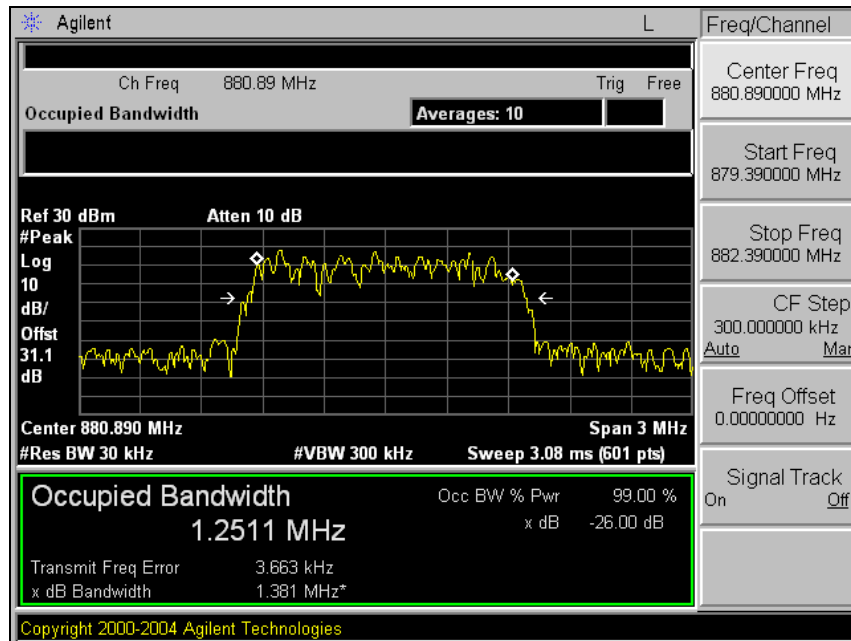
Cellular(Downlink)

Low Channel

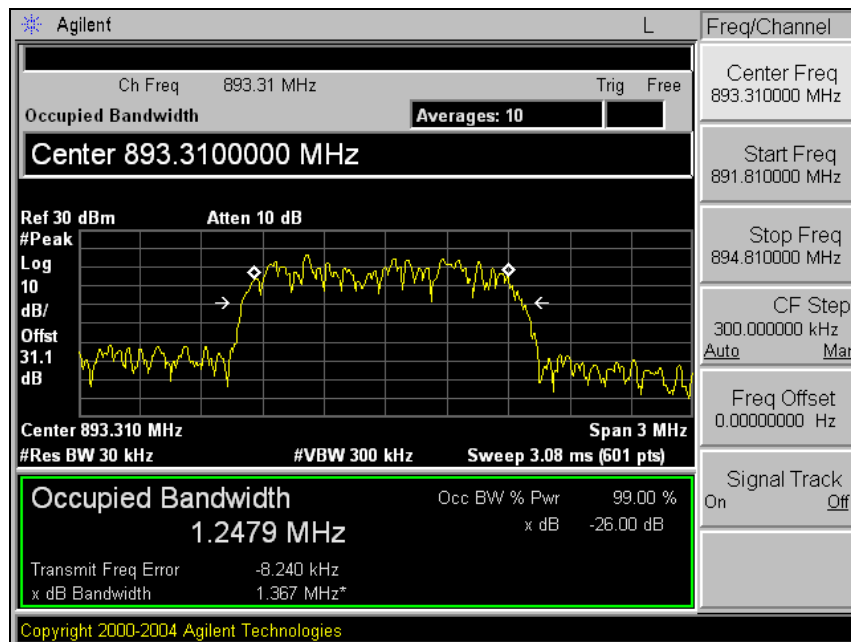


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Middle Channel



High Channel



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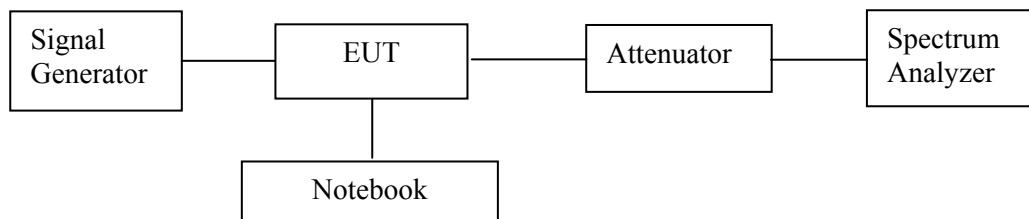
4. Spurious Emissions at Antenna Terminal

4.1. Limit

§ 22.917(e) Out of band emissions. The power of any emission outside of the authorized operating frequency must be attenuated below the transmitting (P) by a factor of at least $43 + 10\log(P)$ dB.

4.2. Test Procedure

1. The transmitter was tested while in a continuous transmit mode.
2. The EUT was tuned to a low, middle, and high channel in both the downlink (base to mobile) and uplink (mobile to base) directions.
3. Spurious Emission was tested under



4.3. Test Results

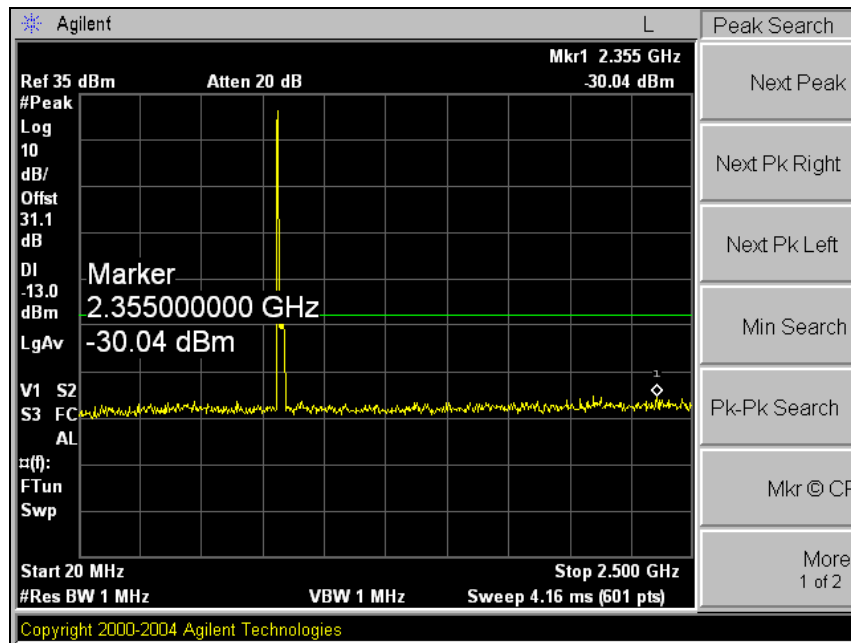
Ambient temperature : $(24 \pm 2) ^\circ\text{C}$
Relative humidity : 47 % R.H.

Please refer to the following plots.

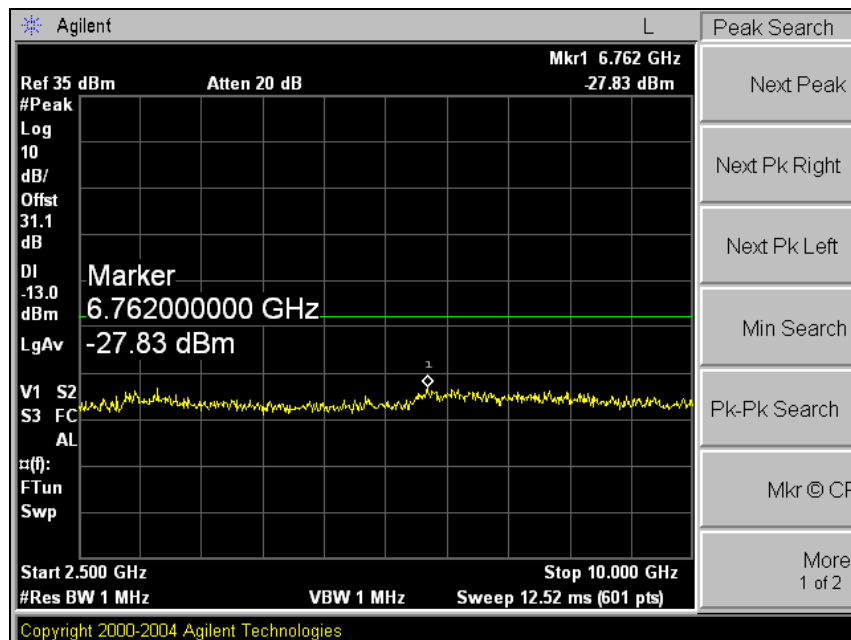
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Cellular(Uplink)

Low Channel

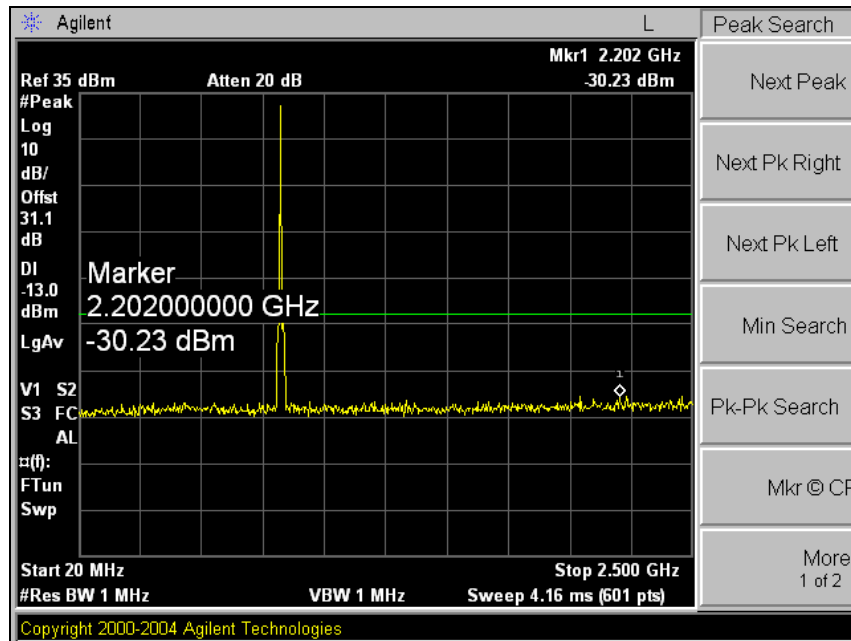


Low Channel

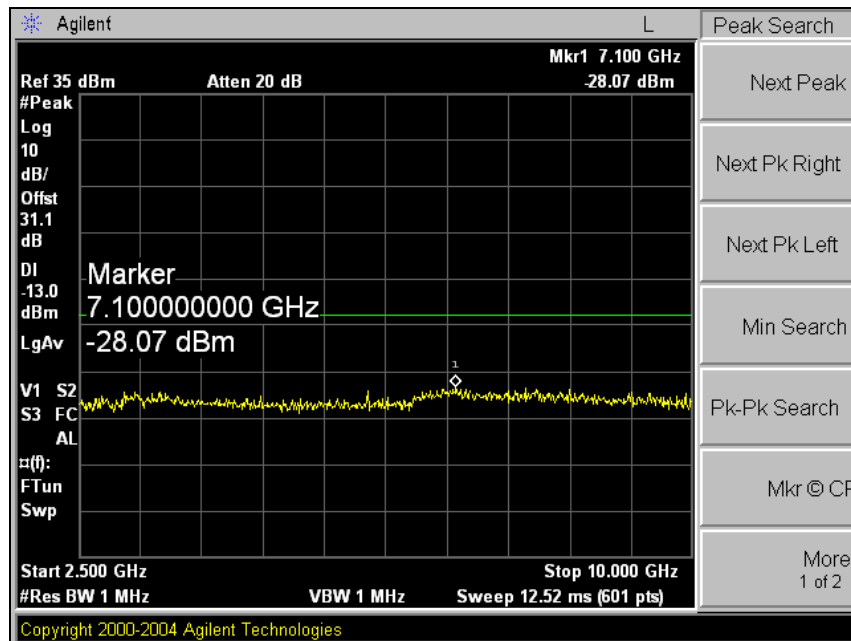


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Middle Channel

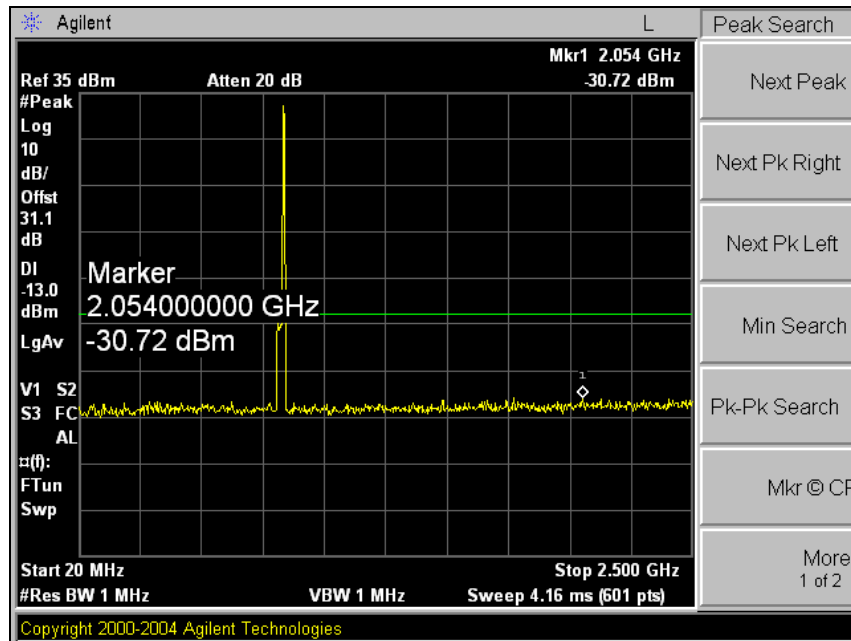


Middle Channel

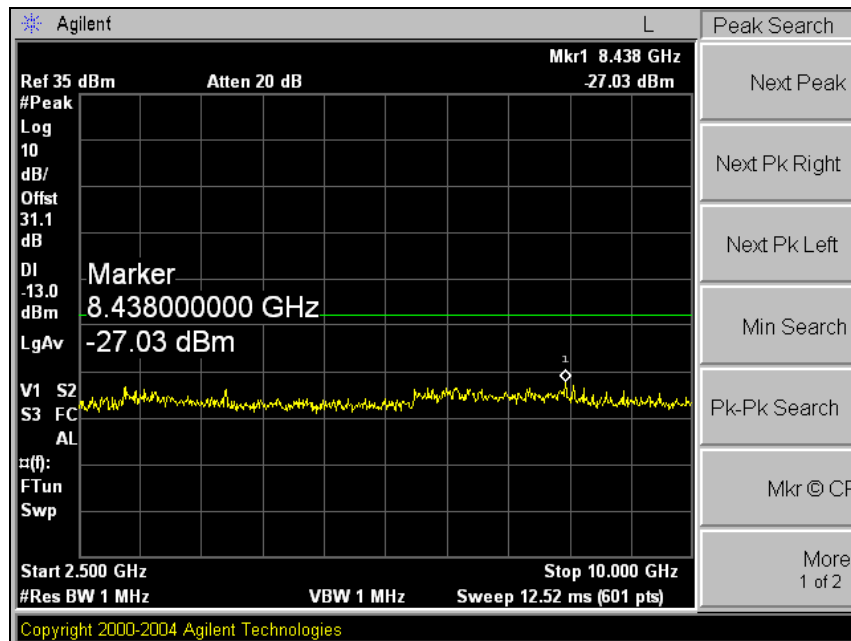


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High Channel



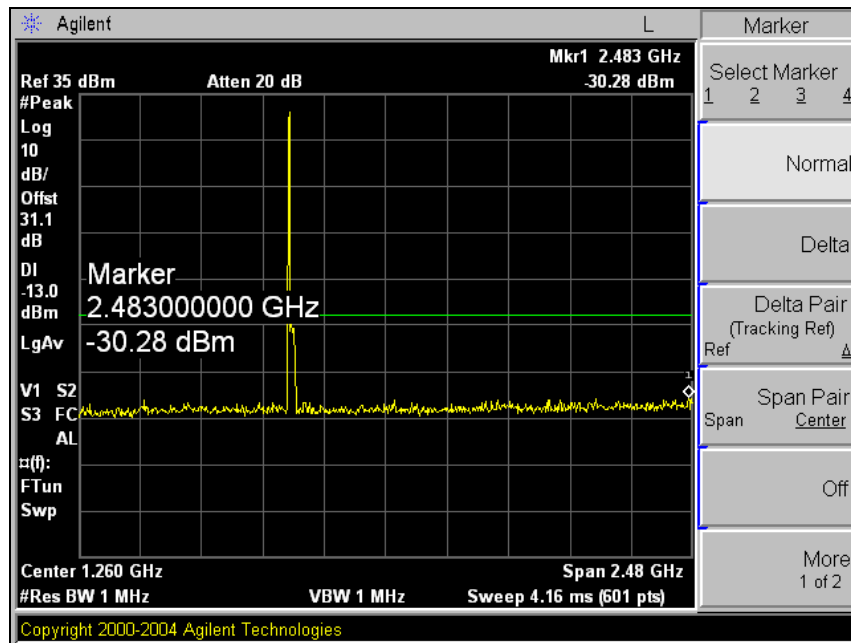
High Channel



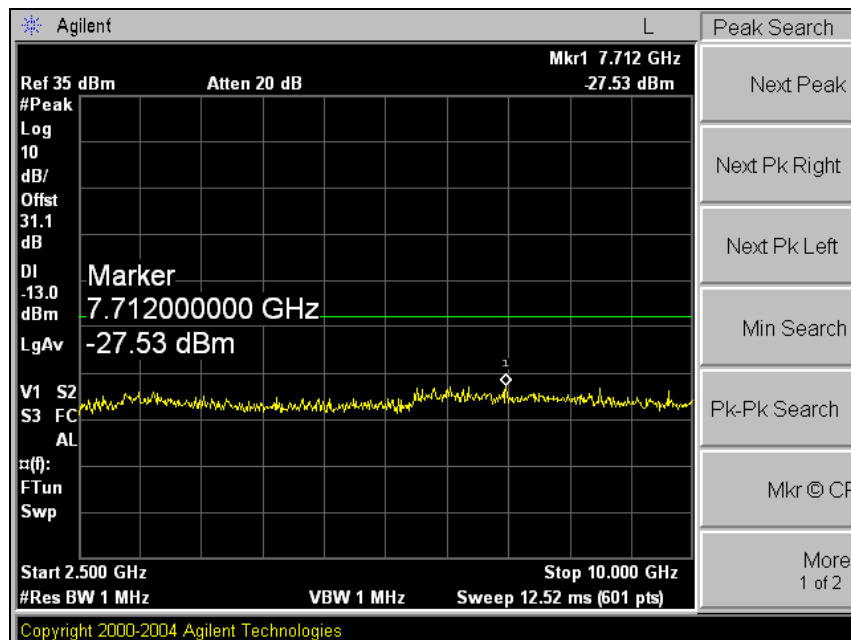
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Cellular(Downlink)

Low Channel

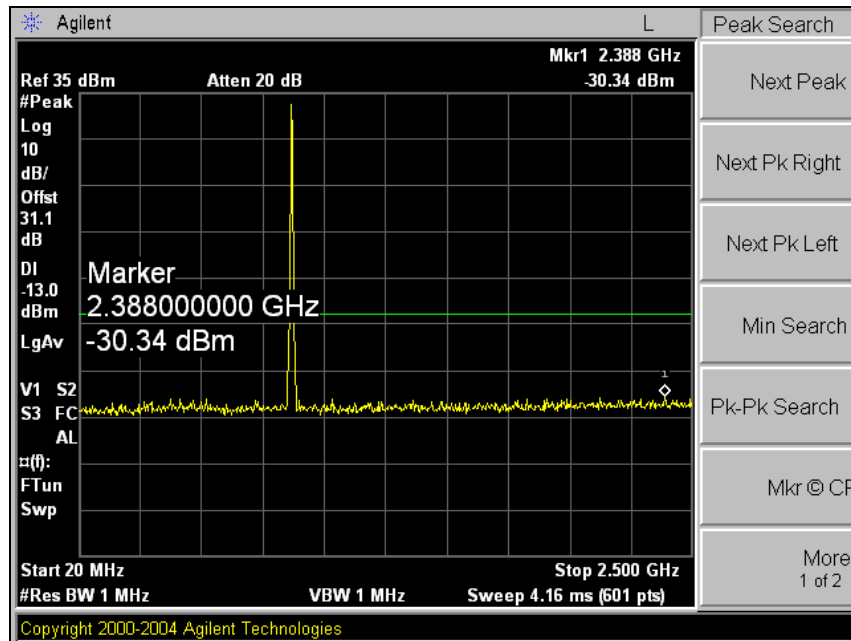


Low Channel

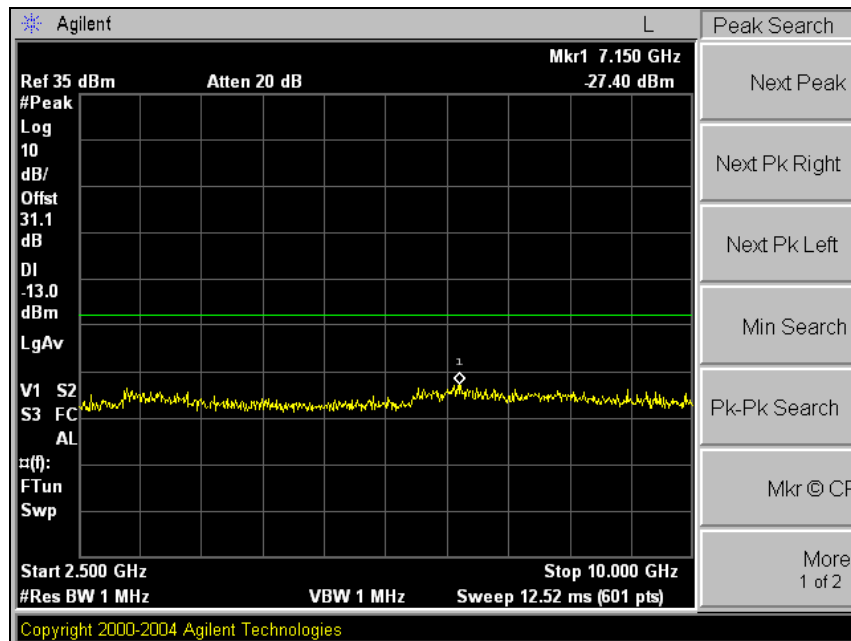


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Middle Channel

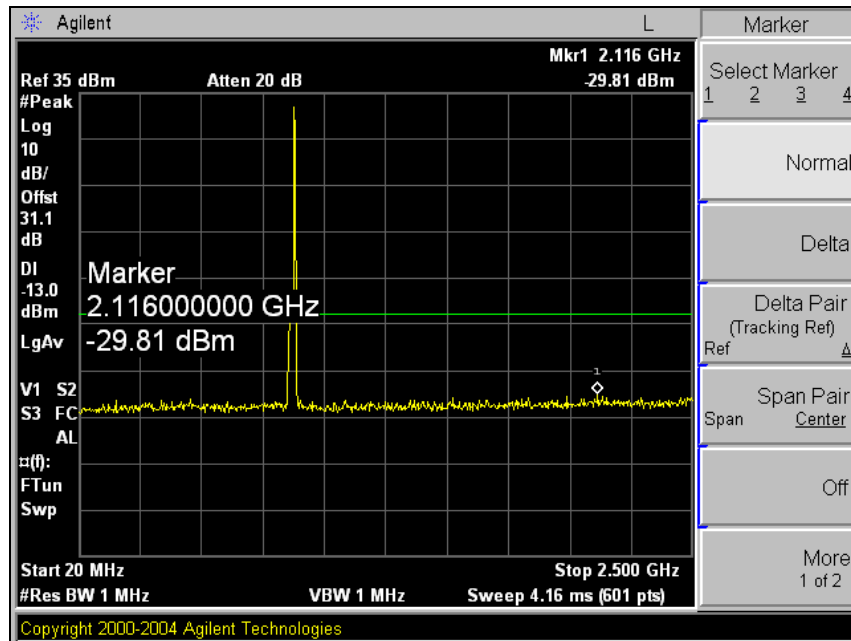


Middle Channel

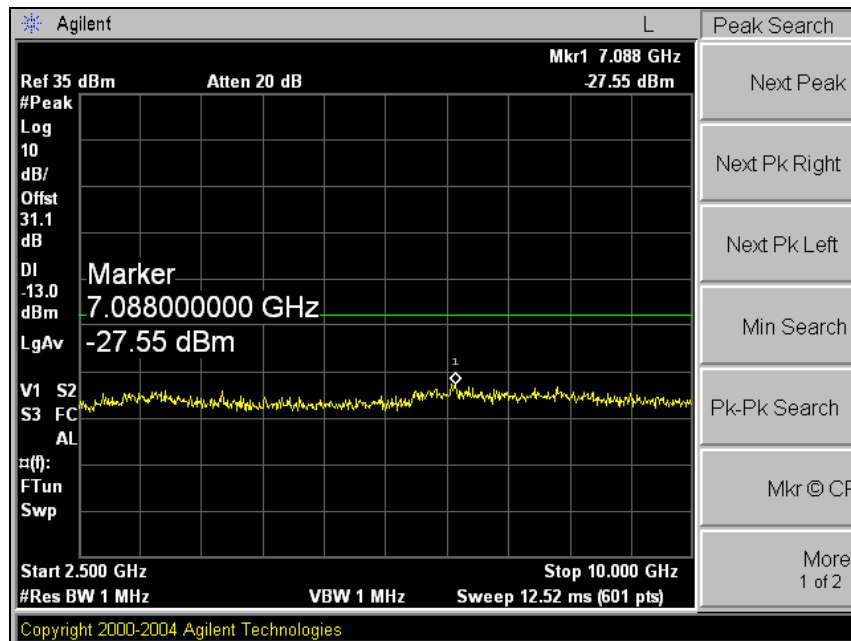


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High Channel



High Channel



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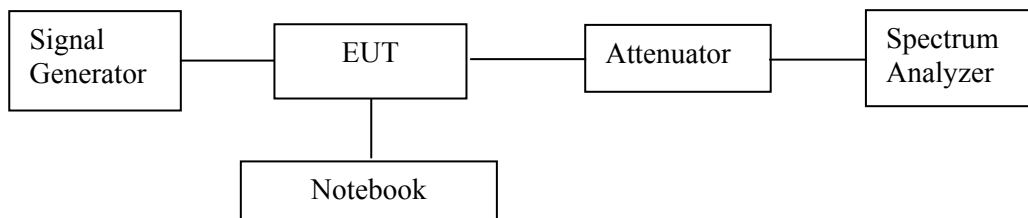
5. Band Edge

5.1. Limit

§ 22.917(e) Out of band emissions. The power of any emission outside of the authorized operating frequency must be attenuated below the transmitting (P) by a factor of at least $43+10\log(P)_{dB}$.

5.2. Test Procedure

1. The transmitter was tested while in a continuous transmit mode.
2. The EUT was tuned to a low, middle, and high channel in both the downlink (base to mobile) and uplink (mobile to base) directions.
3. Spurious Emission was tested under



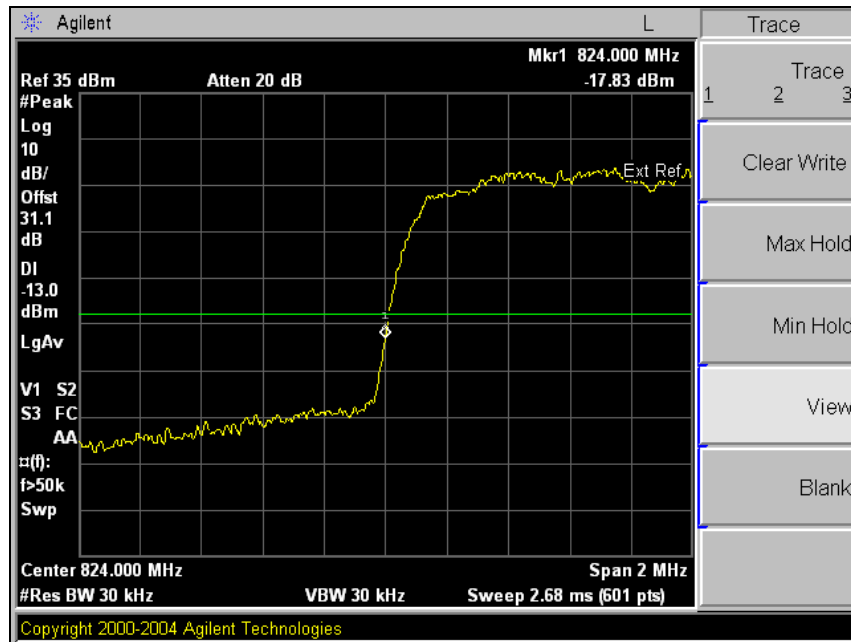
5.3. Test Results

Ambient temperature : $(24 \pm 2) ^\circ\text{C}$
Relative humidity : 47 % R.H.

Please refer to the following plots.

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Cellular(Uplink) Low Channel



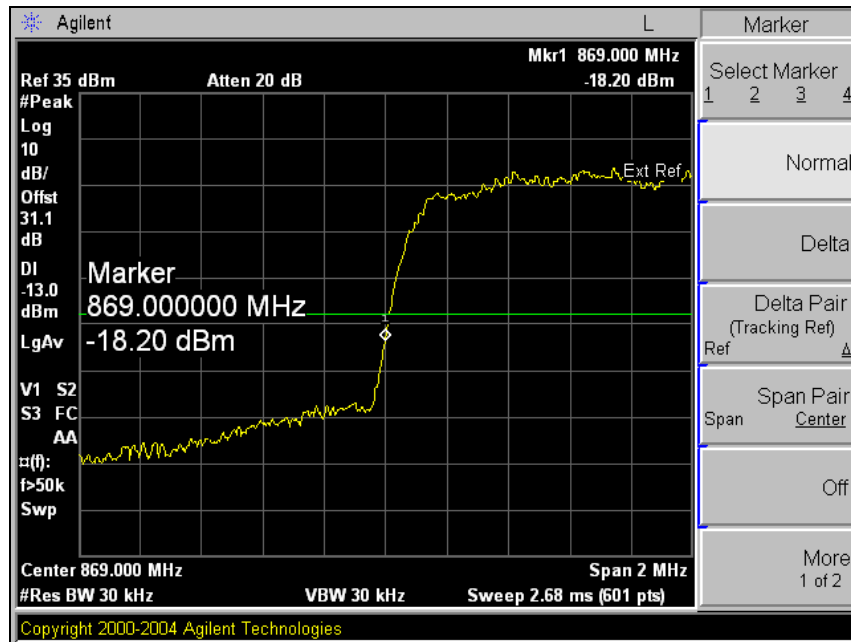
High Channel



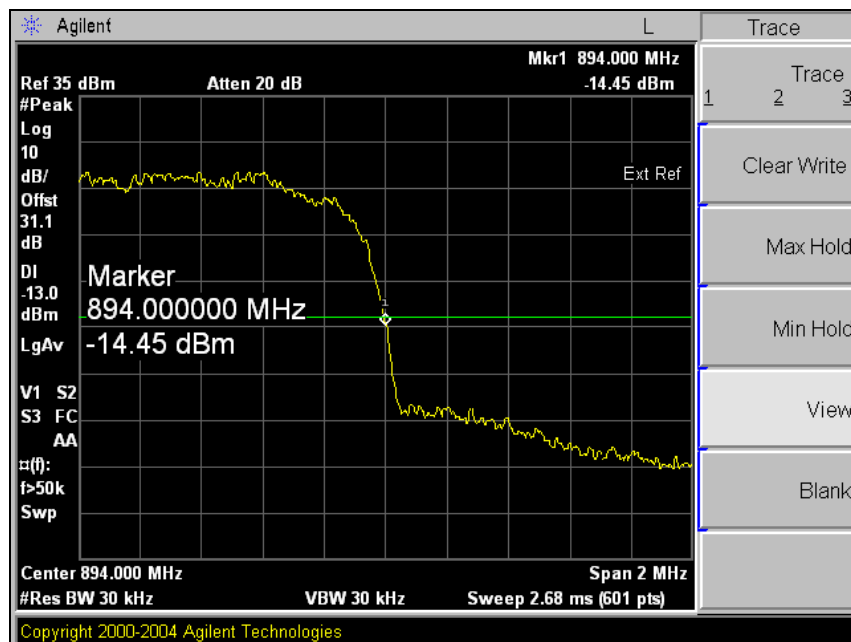
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Cellular(Downlink)

Low Channel

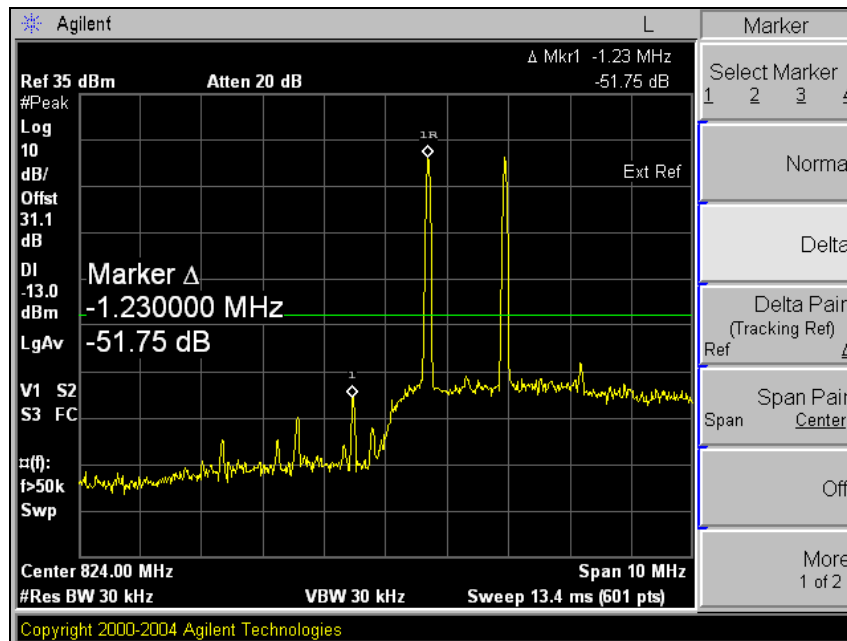


High Channel

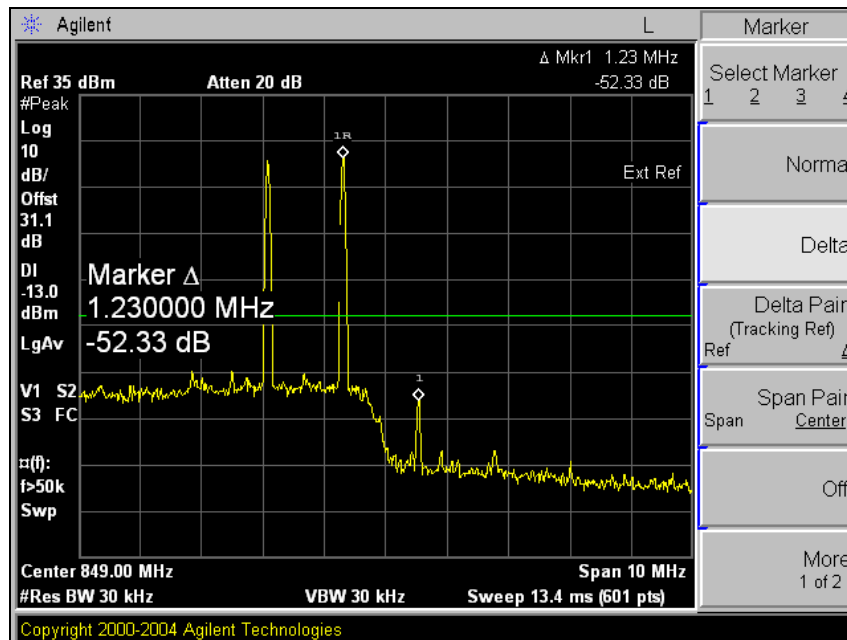


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Cellular(Uplink)_IMD Low Channel

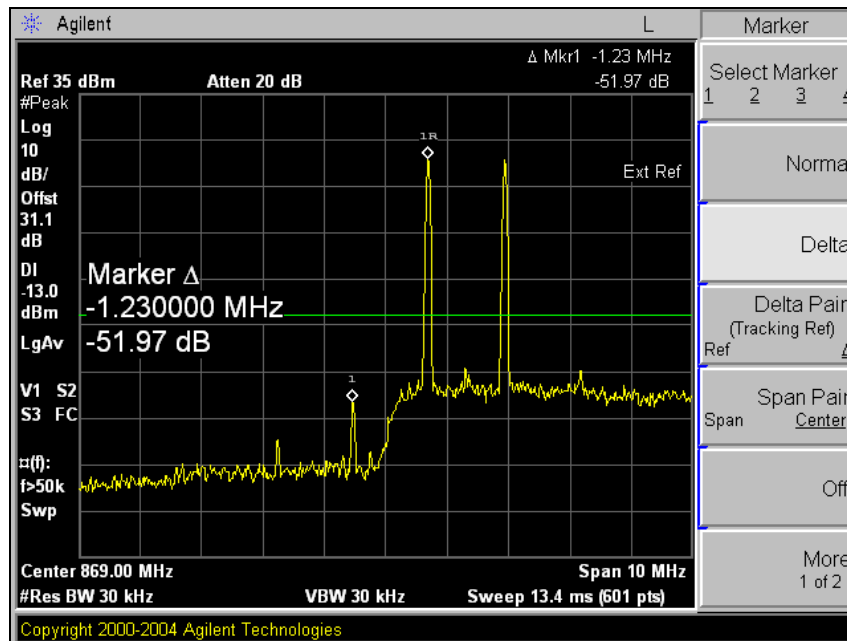


High Channel

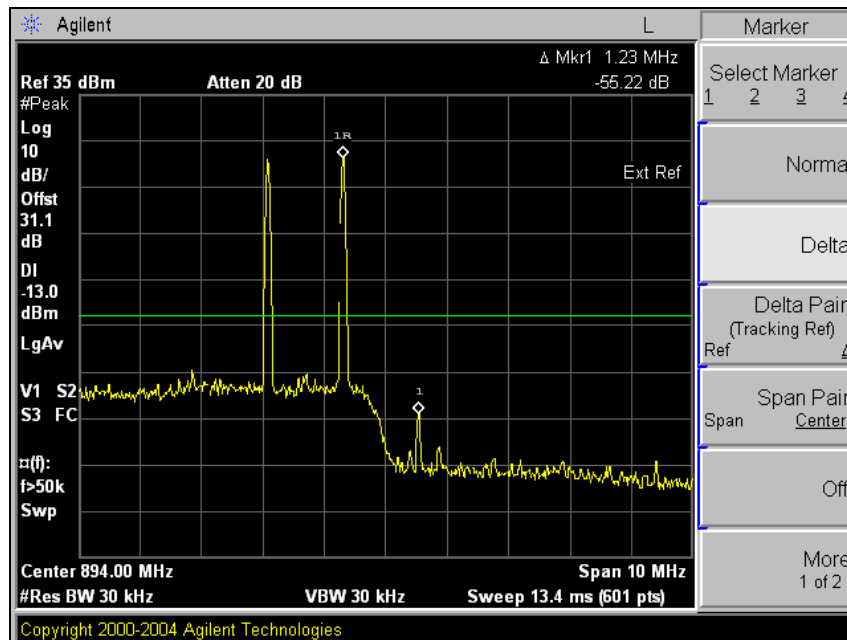


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Cellular(Downlink)_IMD Low Channel



High Channel

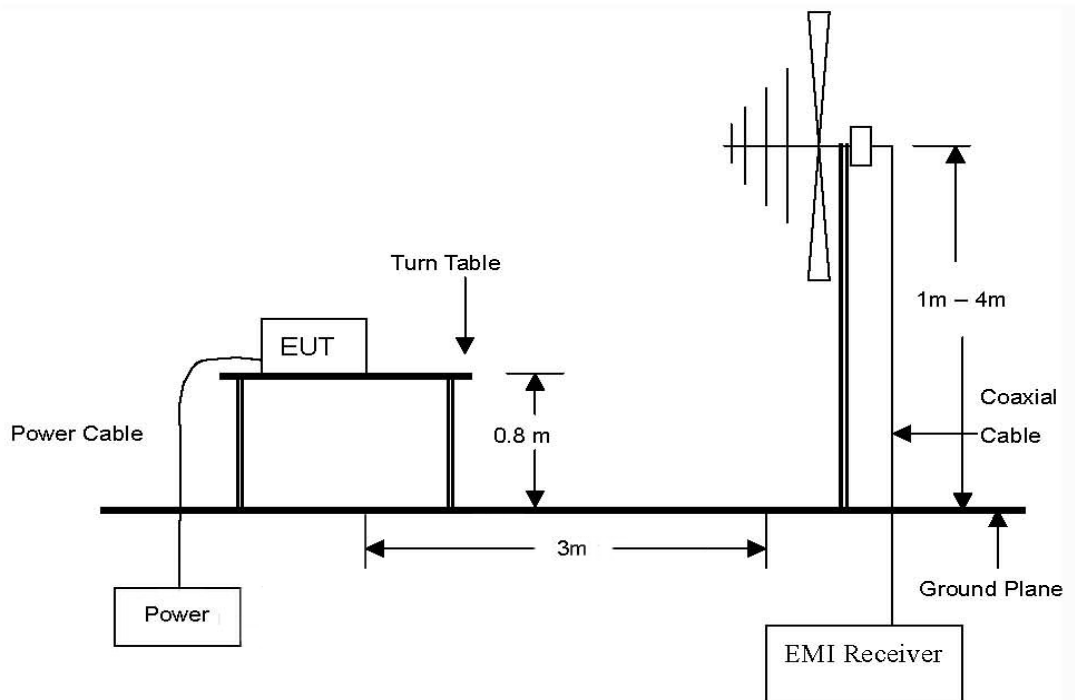


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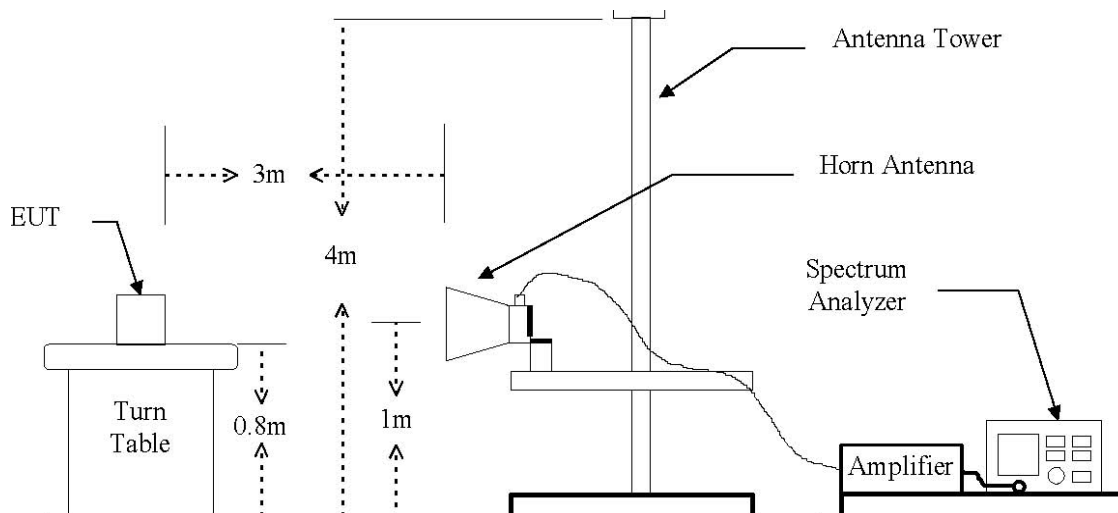
6. Spurious radiated emission

6.1. Test setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.

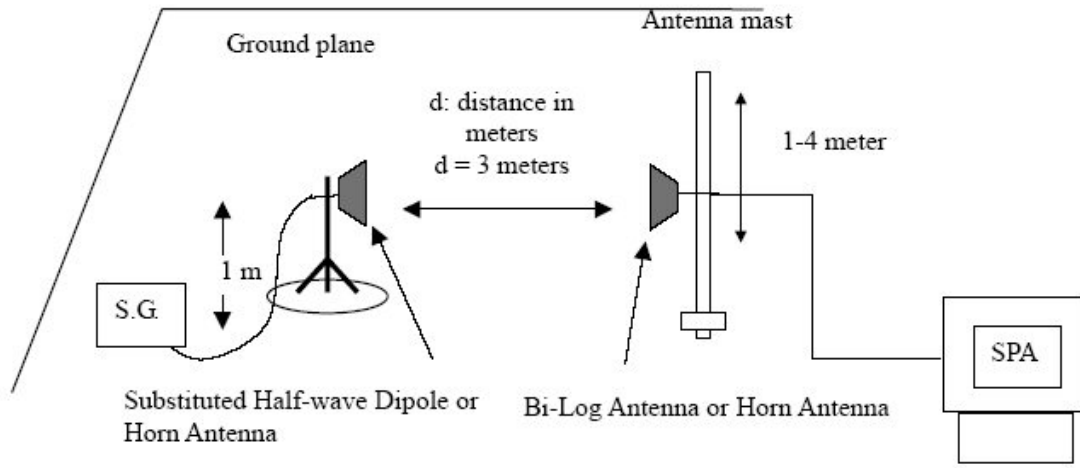


The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 40 GHz Emissions.



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The diagram below shows the test setup for substituted method



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6.2. Limit

§ 22.917(e) Out of band emissions. The power of any emission outside of the authorized operating frequency must be attenuated below the transmitting (P) by a factor of at least $43 + 10\log(P)$ dB.

6.3. Test procedure: Based on ANSI/TIA 603C: 2004

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position closest to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
7. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole or horn antenna connected to a signal generator.
11. In necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

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6.4. Spurious radiated emission

Cellular(Uplink)

Frequency (MHz)	Ant. Pol. (H/V)	S.G level (dB m)	Cable loss (dB)	Ant. gain (dB d)	E.R.P. (dB m)	Margin (dB)
Low Channel (824.70 MHz)						
89.413	H	-50.26	0.96	-10.09	-61.31	48.31
103.558	H	-50.58	1.01	-10.00	-61.59	48.59
750.063	H	-49.53	3.16	-10.20	-62.89	49.89
Middle Channel (835.89 MHz)						
89.418	H	-50.45	0.96	-10.09	-61.50	48.50
103.561	H	-50.04	1.01	-10.00	-61.05	48.05
750.085	H	-49.21	3.16	-10.20	-62.57	49.57
High Channel (848.31 MHz)						
89.411	H	-50.35	0.96	-10.09	-61.40	48.40
103.559	H	-50.07	1.01	-10.00	-61.08	48.08
750.051	H	-48.88	3.16	-10.20	-62.24	49.24

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Cellular(Downlink)

Frequency (MHz)	Ant. Pol. (H/V)	S.G level (dB m)	Cable loss (dB)	Ant. gain (dB d)	E.R.P. (dB m)	Margin (dB)
Low Channel (869.70 MHz)						
89.412	H	-50.01	0.96	-10.09	-61.06	48.06
103.559	H	-50.13	1.01	-10.00	-61.14	48.14
750.063	H	-49.53	3.16	-10.20	-62.89	49.89
Middle Channel (880.89 MHz)						
89.413	H	-50.06	0.96	-10.09	-61.11	48.11
103.558	H	-50.47	1.01	-10.00	-61.48	48.48
750.061	H	-49.68	3.16	-10.20	-63.04	50.04
High Channel (893.31 MHz)						
89.412	H	-50.74	0.96	-10.09	-61.79	48.79
103.562	H	-49.99	1.01	-10.00	-61.00	48.00
750.085	H	-49.21	3.16	-10.20	-62.57	49.57

Remark:

1. $E.R.P. \ \& \ E.I.R.P. = S.G \ level \ (dB \ m) - Cable \ loss \ (dB) + Ant. \ gain \ (dB \ d/dBi)$
2. No more spurious emissions above 760 MHz for all channel.

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7. Frequency Stability

7.1. Limit

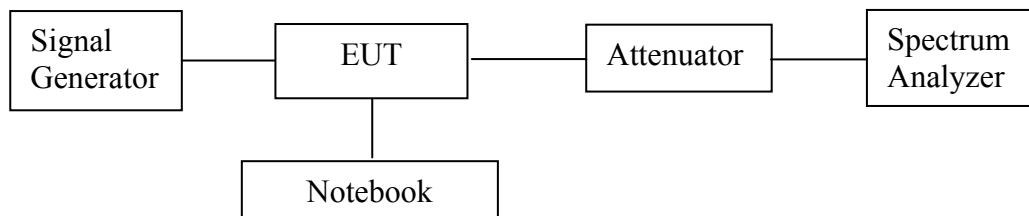
Requirements: FCC § 2.1055 (a), § 2.1055 (d) & following:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table of this section.

For Mobile devices operating in the 824 to 849 MHz band at a power level less than or equal to 3 Watts, the limit specified in Table C-1 is +/- 2.5 ppm.

7.2. Test Procedure

1. Frequency Stability vs. Temperature: The equipment under test was connected to an external AC power supply and the RF output was connected to a frequency counter via feed-through attenuators.
2. The EUT was placed inside the temperature chamber. The AC leads and RF output cable exited the chamber through an opening made for the purpose.
3. After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.
4. Frequency Stability vs. Voltage: An external variable AC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the AC end point. The output frequency was recorded for each AC.



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7.3. Test Results

Ambient temperature : (24 ± 2) °C
Relative humidity : 47 % R.H.

Cellular(Uplink) mode at middle channel

Reference Frequency: 835.89 MHz, Limit: 2.5 ppm			
Frequency Stability versus Temperature			
Environment Temperature (℃)	Power Supplied (Vac)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	110	-20	-0.024
40		-13	-0.016
30		-10	-0.012
24		2	0.002
10		-5	-0.006
0		7	0.008
-10		12	0.014
-20		13	0.016
-30		11	0.013
Frequency Stability versus power Supply			
Environment Temperature (℃)	Power Supplied (Vac)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
24	126.5	2	0.002
	93.5	2	0.002
	85(End point)	3	0.004

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Cellular(Downlink) mode at middle channel

Reference Frequency: 880.89 MHz, Limit: 2.5 ppm			
Frequency Stability versus Temperature			
Environment Temperature (℃)	Power Supplied (Vac)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	110	-18	-0.020
40		-11	-0.012
30		-9	-0.010
24		3	0.003
10		6	0.007
0		10	0.011
-10		11	0.012
-20		15	0.017
-30		18	0.020
Frequency Stability versus power Supply			
Environment Temperature (℃)	Power Supplied (Vac)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
24	126.5	3	0.003
	93.5	2	0.002
	85(End point)	5	0.006

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8. RF Exposure Evaluation

According to FCC 1.1310 : The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in § 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength(V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time
(A) Limits for Occupational /Control Exposures				
300 – 1500	--	--	F/300	6
1500 - 100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300 – 1500	--	--	F/1500	6
1500 - 100000	--	--	1	30

8.1 Friis transmission formula : $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

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8.2 Test Result of RF Exposure Evaluation

Test Item : RF Exposure Evaluation Data

Test Mode : Normal Operation

8.2.1 Output Power into Antenna & RF Exposure Evaluation Distance

Cellular band

Uplink mode

Test mode	Frequency (MHz)	Output Average Power to Antenna (dB m)	Antenna Gain (dB i)	Power Density at 20cm (mW/cm ²)	LIMITS (mW/cm ²)
Low	824.70	25.34	3	0.136	0.550
Mid	835.89	25.18	3	0.131	0.557
High	848.31	24.77	3	0.119	0.566

Downlink mode

Test mode	Frequency (MHz)	Output Average Power to Antenna (dB m)	Antenna Gain (dB i)	Power Density at 20cm (mW/cm ²)	LIMITS (mW/cm ²)
Low	869.70	25.05	3	0.127	0.580
Mid	880.89	25.54	3	0.142	0.587
High	893.31	25.54	3	0.142	0.596

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