6 - SPURIOUS EMISSION AT ANTENNA TERMINAL

6.1 Standard Applicable

According to §15.209 (f) and §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation f a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit.

6.2 Measurement Procedure

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
- 4. Set the SA on View mode and then plot the result on SA screen.
- 5. Repeat above procedures until all frequencies measured were complete.

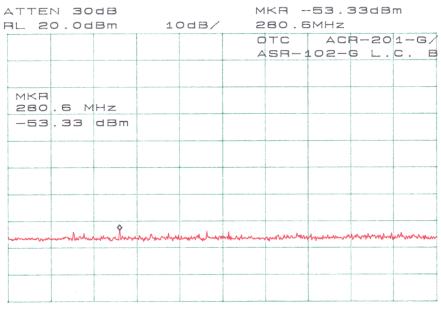
6.3 Test Equipment

Manufacturer	Model No.	Serial No.	Calibration Due Date
HP	8564E	Spectrum Analyzer	2003-12-06

6.4 Measurement Result

Please refer to following pages for plots of spurious emission.

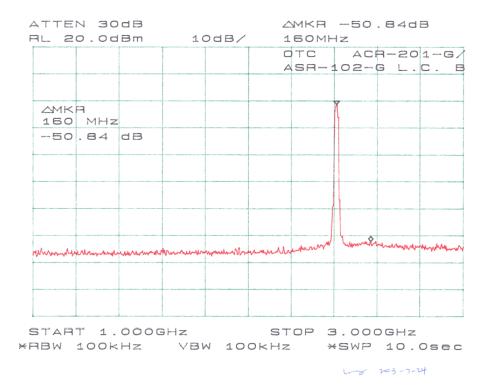
FCC ID: MKZWEA11G03682



 START 30.0MHz
 STOP 1.0000GHz

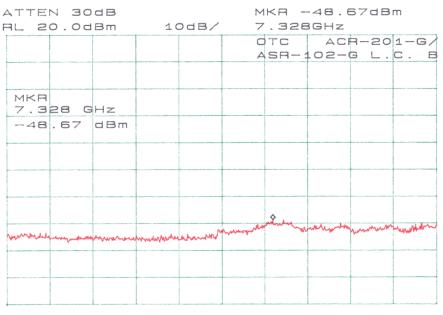
 *RBW 100kHz
 VBW 100kHz
 *SWP 10.0sec

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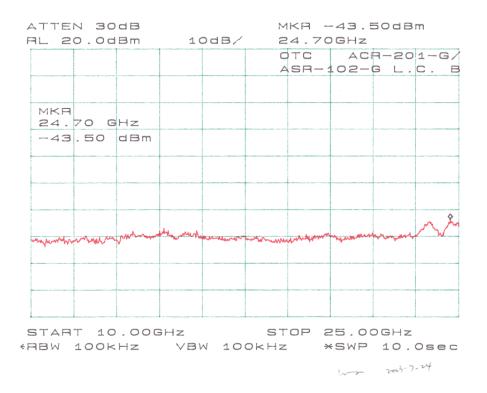
FCC ID: MKZWEA11G03682



 START 3.000GHz
 STOP 10.000GHz

 (RBW 100kHz
 VBW 100kHz
 *SWP 10.0sec

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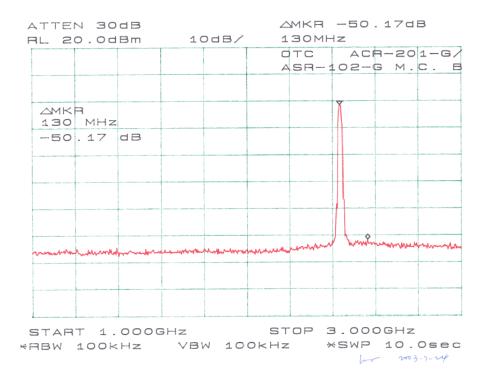


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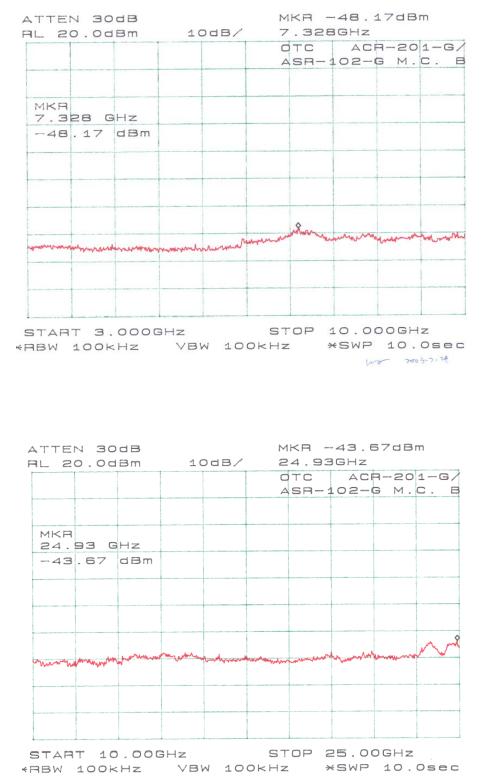
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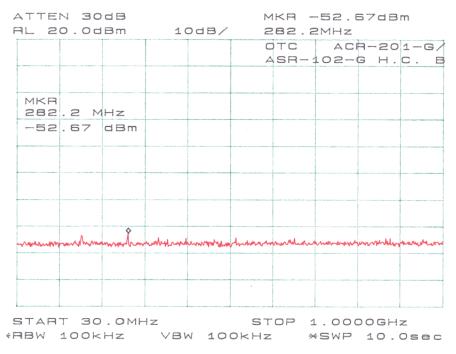


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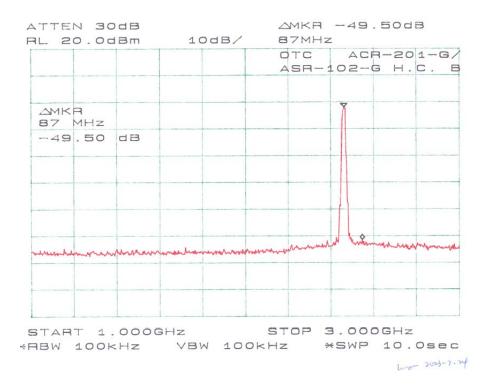


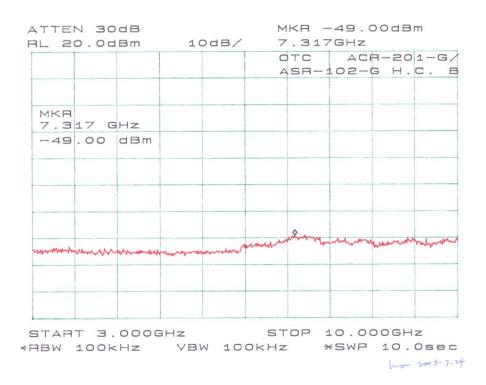
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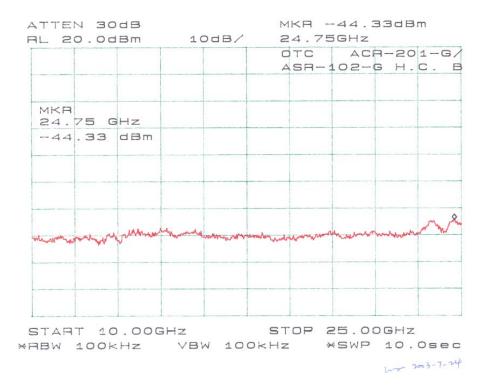
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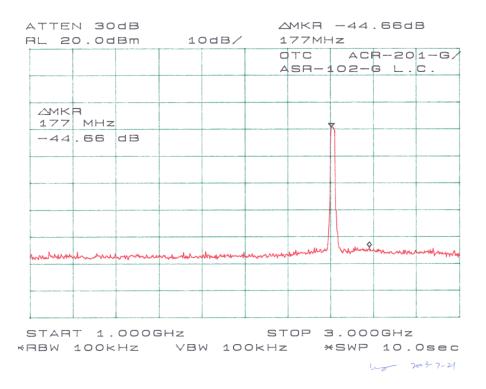


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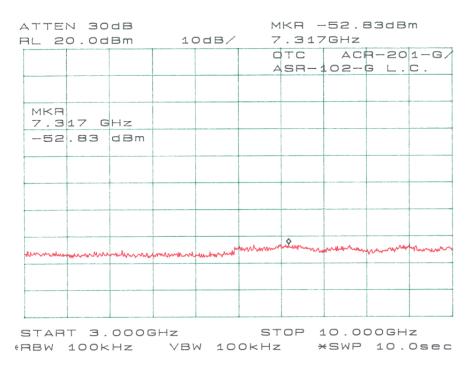
ATTEN 30dB RL 20.0dBm	10dB/	MKA -53.33dBm 161.0MHz				
		OTC ACR-201-G/ ASR-102-G L.C.				
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*RBW 100KHz VBW 100KHz *SWP 10.0sec

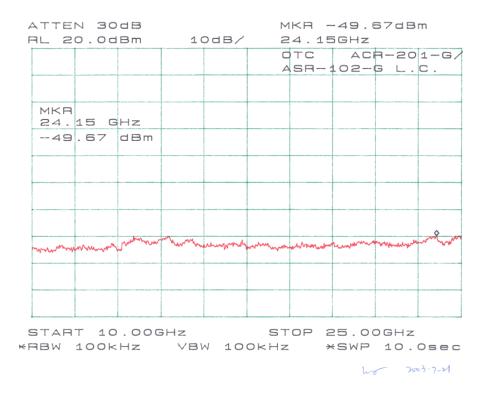
ho 2003-7-21



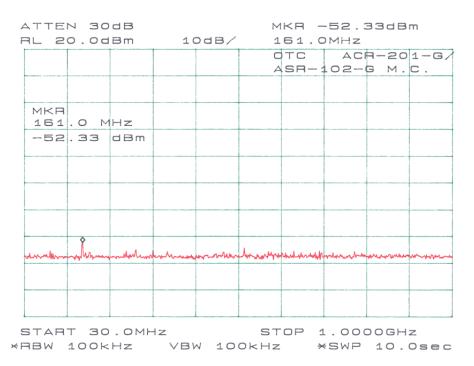
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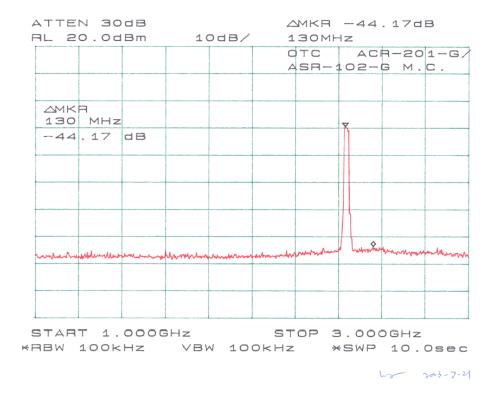
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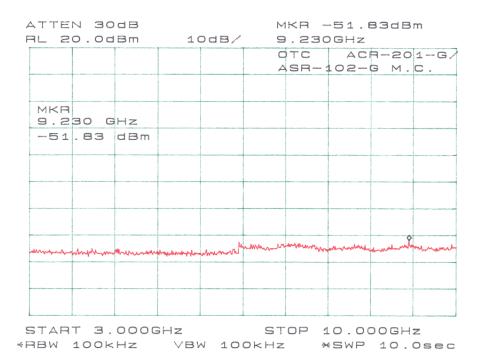
OTC Wireless, Inc



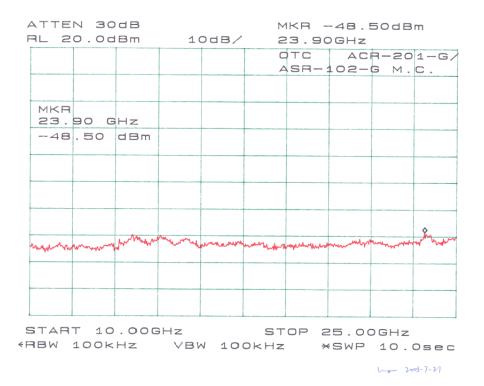
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FCC ID: MKZWEA11G03682



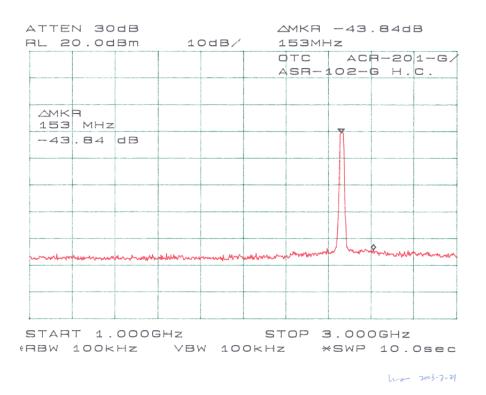
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FCC ID: MKZWEA11G03682

ATTEN 30dB MKR -52.50dBm							
AL 20.0dBm	10dB/	161.0MHz					
		OTC ACR- ASR-102-G					
MKA 161.0 MHz							
-52.50 dBm							
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			-				
START 30.0MH	START 30.0MHZ STOP 1.0000GHZ						

(RBW 100KHz VBW 100KHz *SWP 10.0sec



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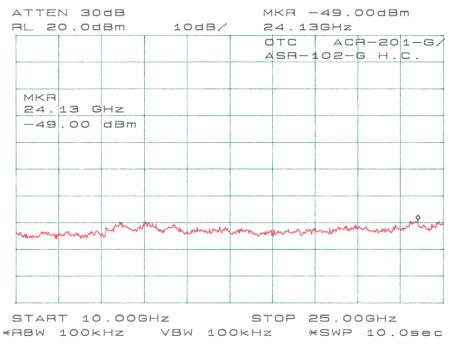
FCC ID: MKZWEA11G03682

ATTEN 30dB		MKR -52.83dBm			
AL 20.0dBm	10dB/	7.293GHz			
		OTC ACR-201-G/			
		ASR-102-6 H.C.			
MKR 7.283 GHz					
-52.83 dBm					
warden mar mar market and	mannon	mar marken and marken wather wather			

 START 3.000GHz
 STOP 10.000GHz

 *RBW 100kHz
 VBW 100kHz
 *SWP 10.0sec

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7 - PEAK POWER SPECTRAL DENSITY

7.1 Standard Applicable

According to §15.247 (d), digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.2 Measurement Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Adjust the center frequency of SA on any frequency be measured and set SA to 6MHz span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- 4. Repeat above procedures until all frequencies measured were complete.

7.3 Test Equipment

Manufacturer	Model No.	Serial No.	Calibration Due Date
HP	8564E	Spectrum Analyzer	2003-12-06

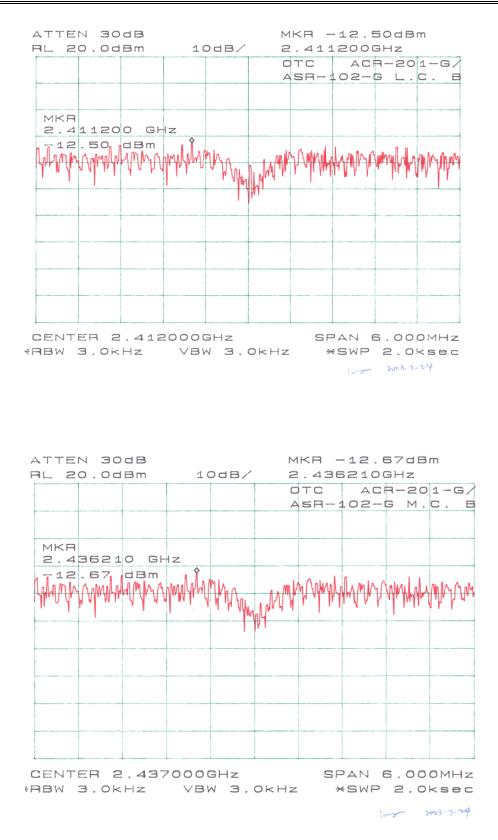
7.4 Measurement Results

	Frequency (MHz)	Peak Power Spectral Density (dBm)	Standard (dBm)	Result
	2412	-12.50	≤ 8	Compliant
802.11b	2437	-12.67	≤ 8	Compliant
	2462	-13.00	≤ 8	Compliant
802.11g	2412	-20.00	≤ 8	Compliant
	2437	-25.83	≤ 8	Compliant
	2462	-26.50	≤ 8	Compliant

7.5 Plot of Peak Power Spectral Density

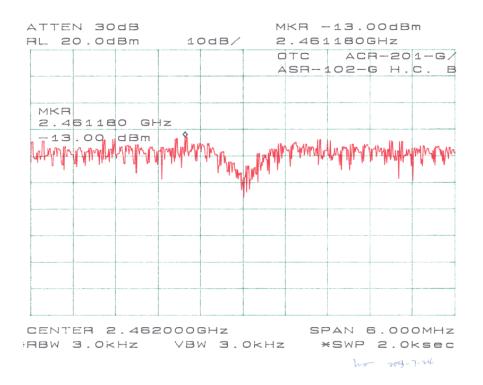
Please refer to following pages for plots of peak power spectral density.

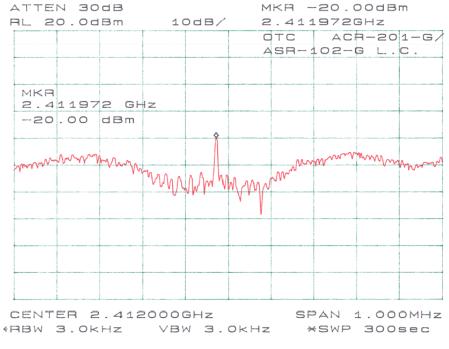
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