

## **TEST REPORT**

**FCC ID:** IPGWWS1

**EUT:** Wireless Weather Station, Serial No. 001

**Manufactured by:**

Texas Weather Instruments, Inc.  
5942 Abrams, Suite 113  
Dallas, Texas, 75231, USA.

**Measurements According to:** ANSI C63.4 (1992)

**Measurement Date:** June 13, 2000

**Testing Performed at:**

Lexmark International, Inc.  
Registered Open Field Test Site  
Development Lab.  
740 New Circle Road, NW.  
Lexington, KY. 40511-1876

**Accreditation Status of Test Facility:**

The Lexmark site was recognized by the Commission as meeting the requirements of section 2.948 of the FCC Rules via a letter dated August 20, 1998 and is presently on file with the Commission.

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### Testing Results:

Harmonic	Freq. (MHz)	Meter Peak dB	Meter Average dB	Ant & Cable Factors dB/uV/m	Total Peak dB/uV/m	Limit Peak dB/uV/m	Total Average dB/uV/m	Limit Average dB/uV/m
1	418	74.90	51.50	16.76	91.70	92.30	68.28	72.30
2	836	10.00 <b>QP</b>	-	25.16	35.16 <b>QP</b>	46.00 <b>QP</b>	-	-
3	1254	19.53	5.42	24.60	44.13	74.00	30.02	54.00
4	1672*	18.91	5.30	26.50	45.41	74.00	31.80	54.00
5	2090	21.82	8.00	28.10	49.92	74.00	36.10	54.00
6	2508	19.91	7.74	29.80	49.71	74.00	37.54	54.00
7	2926	18.66	7.30	31.50	50.16	74.00	38.80	54.00
8	3344*	17.75	7.24	31.90	49.65	74.00	39.14	54.00
9	3762*	19.58	7.39	32.40	51.98	74.00	39.79	54.00
10	4180*	18.04	7.07	32.90	50.94	74.00	39.97	54.00

\* Ambient noise, measured at 1 meter from product; limit would be 64 dB at this distance.

### Sample Calculation:

From FCC Rules, Paragraph 15.231(e)

Frequency: 260-470 MHz.

Amplitude: 1500-5000 uV/m

For 418 MHz.  $L(\text{limit}) = ((418-260)/(470-260))(5000-1500) + 1500$

$$L = 4133 \text{ uV/m}$$

$$L(\text{dB/uV/m}) = 20 \text{ Log}(4133)$$

$$L = 72.3 \text{ dB/uV/m (AVG)}$$

$$L(\text{Peak}) = \text{Avg.} + 20 \text{ dB}$$

$$L(\text{Peak}) = 72.3 + 20 = 92.3 \text{ dB/uV/m}$$