

Test Report

FCC ID: M5ZWOWPIR

EUT: Wireless Sensor

Manufactured by:

Point Six, Inc.
391 Codell Drive
Lexington, KY. 40509

Measurements According to: ANSI C63.4 (1992)

Measurement Date: October 23, 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	52.20	18.50	19.28	71.48	92.78	52.28	72.30
2	836	3.50 QP	-	25.16	28.66 QP	46.00 QP	-	-
3	1254	12.13	8.17	24.60	36.73	74.00	32.77	54.00
4	1672	11.62	7.96	26.50	38.12	74.00	34.46	54.00
5	2090	12.80	-1.82	28.10	40.90	74.00	26.28	54.00
6	2508	13.89	-1.36	29.80	43.69	74.00	28.44	54.00
7	2926	13.21	-1.62	31.50	44.71	74.00	29.88	54.00
8	3344	13.21	-1.79	31.90	45.11	74.00	30.11	54.00
9	3762	13.20	-1.63	32.40	45.60	74.00	30.77	54.00
10	4180	13.36	-1.83	32.90	46.26	74.00	31.07	54.00

Sample Calculation:

From FCC Rules, Paragraph 15.231(e)

Frequency: 260-470 MHz.

Amplitude: 1500-5000 uV/m

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

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

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

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

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

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

Signed: _____ Date: _____
D.R. Bush, PE, NCE, President dBi Corporation