TEST REPORT

Test Report Number: PSX-1-2002

EUT: Wireless Pressure Probe Transmitter

Model Number: WOWPRES

Manufacturer: Point Six, Inc.

The data contained in this test report apply only to the specific sample tested under the conditions described herein. It is the responsibility of the manufacturer to assure that any additional units of this model that are manufactured be done so using components with identical electrical and mechanical characteristics in order to assure similar performance.

Lexmark International shall have no liability, expressed or implied, for any conclusions, inferences or generalizations that the manufacturer or others may draw based on these results.

This report may be reproduced only if done so in its entirety.

This report was prepared by: Lexmark International, Inc.

EMC Laboratory

740 New Circle Road NW

Building 036

Lexington, Kentucky 40511-1876

Cert. No. 0872-01



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EUT: Point Six Wireless Pressure Probe,

Model: WOWPRES

FCC ID: M5ZWOWPRES

Summary of testing:

The results in this report indicate that the EUT complies with the requirements of 47 CFR 15.231 (c) and (e) of the FCC Rules.

Modifications made to the EUT in order to comply:

None

Note: It is the responsibility of the manufacturer to ensure that any modifications made to the EUT in order to comply with the specified standards of this report are implemented on all production units.

Testing performed by:

Kevin Hall Engineer, Lexmark EMC Laboratory (859) 232-6015

John T. Fessler Manager, Lexmark EMC Laboratory NARTE EMC Engineer (859) 232-7650

Report reviewed by:

John T. Fessler Manager, Lexmark EMC Laboratory NARTE EMC Engineer (859) 232-7650 Test Report Number: PSX-1-2002 Page 3 of 10

EUT: Point Six Wireless Pressure Probe,

Model: WOWPRES

FCC ID: M5ZWOWPRES

EUT: Point Six Wireless Pressure Probe Transmitter

Model Number: WOWPRES

EUT Serial Number: 2726BE02000000B2

FCC ID: M5ZWOWPRES

Description of EUT: A wireless, battery-operated transmitter that transmits pressure data to a

remote receiver.

Manufactured by:

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

Measurements According to: ANSI C63.4 (1992)

Measurement Date: January 24, 2002

Testing Performed at:

Lexmark International, Inc.
Registered 10 meter Semi-anechoic Chamber
Development Lab. Building 036
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 December 10, 2001 (Registration No. 949691) and is presently on file with the Commission.

This facility is accredited to ISO Guide 17025 by A2LA for measurements under ANSI C63.4 (1992) as indicated by Certificate No. 0872-01, valid to October 31, 2003.

EUT: Point Six Wireless Pressure Probe,

Model: WOWPRES

FCC ID: M5ZWOWPRES

EUT Photographs:





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EUT: Point Six Wireless Pressure Probe,

Model: WOWPRES

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Radiated Emissions Test 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	67.5	34.0	20.9	88.4	92.30	54.9	72.30
2	836	13.0	-	28.4	41.4		-	-
3	1254	25.29	11.1	26.3	51.6	74.00	37.4	54.00
4	1672	26.2	12.0	27.9	54.1	74.00	39.9	54.00
5	2090	25.58	12.0	29.9	55.4	74.00	41.9	54.00
6	2508	26.5	12.9	31.7	58.2	74.00	44.6	54.00
7	2926	26.26	12.7	33.6	59.9	74.00	46.3	54.00
8	3344	26.41	11.8	34.5	60.9	74.00	46.3	54.00
9	3762	25.7	12.6	35.4	61.1	74.00	48.0	54.00
10	4180	25.29	12.2	36.5	61.8	74.00	48.7	54.00

^{*} Indicates max. radiation orientation; the product was measured at three different orientations.

Sample Calculation:

From FCC Rules, Paragraph 15.231(e)

Frequency: 260-470 MHz. Amplitude: 1500-5000 uV/m

For 418 MHz. L(limit)=((418-260)/(470-260))(5000-1500)+1500

L = 4133 uV/m

L(dB/uV/m) = 20 Log (4133)

L = 72.3 dB/uV/m (AVG)

L(Peak) = Avg. + 20 dB

L(Peak) = 72.3 + 20 = 92.3 dB/uV/m

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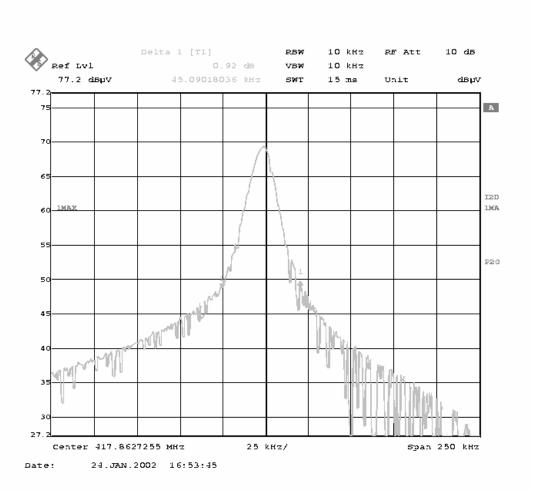
EUT: Point Six Wireless Pressure Probe,

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FCC ID: M5ZWOWPRES

Transmitter Bandwidth Test Results:

The photo below indicates that the 20 dB transmitted bandwidth of the EUT is 45.1 kHz. This is well within the maximum bandwidth of 1.045 MHz (0.25% of 418 MHz) specified by 47 CFR 15.231 (c).



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EUT: Point Six Wireless Pressure Probe,

Model: WOWPRES

FCC ID: M5ZWOWPRES

Photographs of test setup:



Setup for measurements 30 MHz - 1000 MHz. Measurements were made with the EUT located by itself on an 80 cm high non-conductive table.

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EUT: Point Six Wireless Pressure Probe,

Model: WOWPRES

FCC ID: M5ZWOWPRES

Photographs of test setup:



Setup for measurements above 1000 MHz. Measurements were made with the EUT and a Point Six Wireless Transmitter/Receiver (FCC ID: M5ZPTRX) both located on an 80 cm high non-conductive table.

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EUT: Point Six Wireless Pressure Probe,

Model: WOWPRES

FCC ID: M5ZWOWPRES

Test Equipment used for testing:

Equipment ID	Description	Manufacturer	Model Number	Calibration Due
0509	Bilog Antenna	Chase	CBL6111C	10/4/02
0361	EMI Receiver	Polorad	ESV	2/12/02
0389	Horn Antenna	ARA	DRG-118/A	-
0543	EMI Receiver	R & S	ESI40	10/15/02

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EUT: Point Six Wireless Pressure Probe,

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American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

LEXMARK INTERNATIONAL EMC LABORATORY

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ELECTRICAL (EMC)

Valid to: October 31, 2003 Certificate Number: 0872-01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Test Technology Test Method(s)

Radiated & Conducted Emissions (CFR) 47, FCC Method Part 15, Class A and B (using

(Power Lines) ANSI C63.4-1992 & ANSI C63.4-2000)

AS\NZS 3548-1995

CISPR 22 (1985, 1993, 1997) CNS 13438 (1994, 1997) EN 55022 (1994, 1998)

VCCI 2001 GB9254-1999

On materials and products related to the following:

Information Technology Equipment- Computers, Printers, Peripheral Devices

(A2LA Cert. No. 872.01) 11/26/01

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Peta Bligg

