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1. GENERAL INFORMATION

1.1 Verification of Compliance

EUT: HYGIENE MONITOR

Model: IT370, IT-373, IT-374, IT-375

Applicant: REMOTE PLAY, INC.

Test Type: FCC Part 15C CERTIFICATION

Result: PASS

Tested by: ADVANCED COMPLIANCE LABORATORY

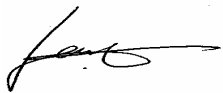
Test Date: August 12-September 10, 2010

Report Number: 0048-100812-01-FCC

The above equipment was tested by Compliance Laboratory, Advanced Technologies, Inc. for compliance with the requirement set forth in the FCC rules and regulations Part 15 subpart C. This said equipment in the configuration described in the report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

The estimated uncertainty of the test result is given as following. The method of uncertainty calculation is provided in Advanced Compliance Lab. Doc. No. 0048-01-01.

| | Prob. Dist. | Uncertainty(dB) | Uncertainty(dB) | Uncertainty(dB) |
|---------------------------------|-------------|-----------------|-----------------|-----------------|
| | | 30-1000MHz | 1-6.5GHz | Conducted |
| Combined Std. Uncertainty u_c | norm. | ± 2.36 | ± 2.99 | ± 1.83 |



Wei Li
Lab Manager
Advanced Compliance Lab

Date September 10, 2010, 2010

1.2 Equipment Modifications

N/A

1.3 Product Information

System Configuration

| ITEM | DESCRIPTION | FCC ID | CABLE |
|-----------------|------------------------------|--------------|-------|
| Product | HYGIENE MONITOR 2X37Y (1) | ST2-2X37Y | |
| Housing | PLASTICS | | |
| Power Supply | 3V DC Battery | | |
| Operation Freq. | 904MHz ~ 926MHz | | |
| Receiver | 2X37Y(RX) | Verification | |

(1) EUT submitted for grant.

1.4 Test Methodology

Radiated tests were performed according to the procedures in ANSI C63.4-2003 at an antenna to EUT distance of 3 meters.

1.5 Test Facility

The open area test site and conducted measurement facility used to collect the radiated and conducted data are located at Hillsborough, New Jersey. This site has been accepted by FCC to perform measurements under Part 15 or 18 in a letter dated May 19, 1997 (Refer to: 31040/PRV 1300F2). The NVLAP Lab code for accreditation of FCC EMC Test Method is: 200101-0.

1.6 Test Equipment

| Manufacture | Model | Serial No. | Description | Cal Due dd/mm/yy |
|-----------------|---------|----------------|--|---------------------|
| Hewlett-Packard | HP8546A | 3448A0029 0 | EMI Receiver | 25/09/10 |
| EMCO | 3104C | 9307-4396 | 20-300MHz Biconical Antenna | 19/10/10 |
| EMCO | 3146 | 9008-2860 | 200-1000MHz Log-Periodic Antenna | 19/10/10 |
| Fischer Custom | LISN-2 | 900-4-0008 | Line Impedance Stabilization Networks | 05/10/11 |
| Fischer Custom | LISN-2 | 900-4-0009 | Line Impedance Stabilization Networks | 18/10/11 |
| EMCO | 3115 | 4945 | Double Ridge Guide Horn Antenna | 17/10/10 |

All Test Equipment Used are Calibrated Traceable to NIST Standards.

1.7 Statement for the Document Use

This report shall not be reproduced except in full, without the written approval of the laboratory. And this report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

2. PRODUCT LABELING

FCC ID: ST2-2X37Y

This device complies with part 15 of the FCC Rules. Operating is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Figure 2.1 FCC ID Label
(Only FCC ID shown on EUT)**

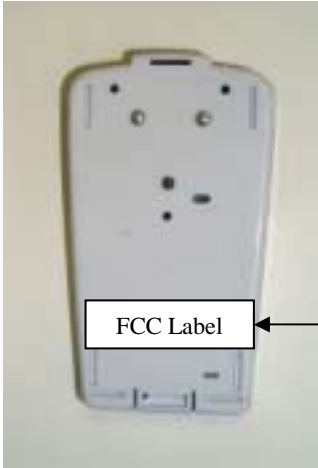


Figure 2.2 FCC Label Location

3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it). And its antenna was permanently attached to the EUT with max length, 3”.

Testing was performed as EUT was continuously operated at the following frequency channels:

Low=904MHz, Middle= 914MHz, High=926MHz.

Fresh external battery was used for extended operating time.

3.2 Special Accessories

N/A

3.3 Configuration of Tested System

Figure 3.1 to Figure 3.3 illustrate this system, which is tested standing along.

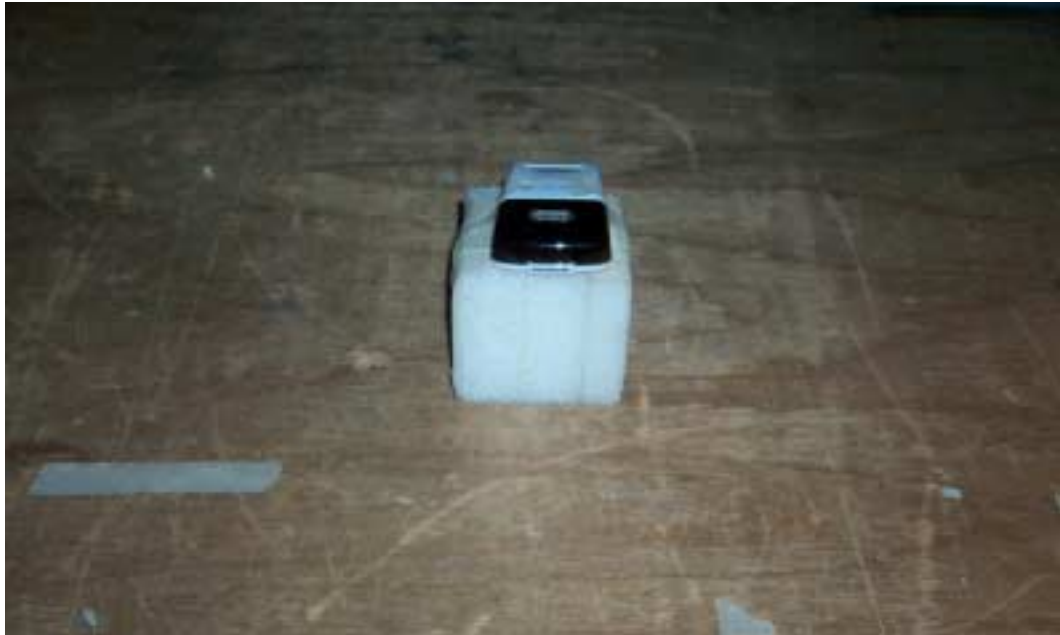


Figure 3.1 Radiated Test Setup, position 1



Figure 3.2 Radiated Test Setup, position 2



Figure 3.3 Radiated Test Setup, position 3

4. SYSTEM SCHEMATICS

See Attachment.

Figure 4.1 System Schematics

5. RADIATED EMISSION DATA

5.1 Field Strength Calculation

The corrected field strength is automatically calculated by EMI Receiver using following:

$$FS = RA + AF + CF + AG$$

where FS: Corrected Field Strength in dB μ V/m

RA: Amplitude of EMI Receiver before correction in dB μ V

AF: Antenna Factor in dB/m

CF: Cable Attenuation Factor in dB

AG: Built-in Preamplifier Gain in dB (Stored in receiver as part of the calibration data)

THE "DUTY CYCLE CORRECTION FACTOR" FOR SPURIOUS RADIATED EMISSIONS IS;
 $20 \log * (4 \text{ ms} / 100 \text{ ms}) = -28 \text{ dB}$, WHICH WAS USED TO CORRECT THE AVERAGE RADIATED EMISSION READINGS.

5.2 Test Methods and Conditions

The initial step in collecting radiated data is a EMI Receiver scan of the measurement range below 30MHz using peak detector and 9KHz IF bandwidth / 30KHz video bandwidth. For the range 30MHz - 1GHz, 100KHz IF bandwidth / 100KHz video bandwidth are used. Both bandwidths are 1MHz for above 1GHz measurement. Up to 10th harmonics were investigated.

5.3 Test Data

The following data lists the significant emission frequencies, polarity and position, peak reading of the EMI Receiver, the FCC limit, and the difference between the peak reading and the limit. Explanation of the correction and calculation are given in section 5.1.

Test Personnel: _____



Typed/Printed Name: Edward Lee

Date: September 10, 2010

Radiated Test Data (CH-904MHz/914MHz/926MHz)

| Frequency (MHz) | Polarity (V,H) Position (X,Y,Z) | Antenna Height (m) | Azimuth (Degree) | Peak Reading at 3m (2) (dBuV/m) | Peak Reading After Correction (dBuV/m) | FCC 3m Limit (1) (dBuV/m) | Difference (dBuV/m) |
|--------------------|--|--------------------------|---------------------|---|--|------------------------------------|------------------------|
| 904 | V/X | 1.2 | 270 | 81.2 | 53.2 | 94 | -40.8 |
| 1808 | V/X | 1.1 | 180 | 46.8 | 18.8 | 54 | -35.2 |
| 2712 | V/X | 1.1 | 180 | 60.5 | 32.5 | 54 | -21.5 |
| 904 | H/X | 1.2 | 135 | 87.4 | 59.4 | 94 | -34.6 |
| 1808 | H/X | 1.1 | 180 | 53.2 | 25.2 | 54 | -28.8 |
| 2712 | H/X | 1.1 | 180 | 62.0 | 34 | 54 | -20 |
| 914 | V/X | 1.2 | 180 | 79.9 | 51.9 | 94 | -42.1 |
| 1828 | V/X | 1.1 | 180 | 51.9 | 23.9 | 54 | -30.1 |
| 2712 | V/X | 1.0 | 180 | 62.8 | 34.8 | 54 | -19.2 |
| 914 | H/X | 1.2 | 270 | 88.6 | 60.6 | 94 | -33.4 |
| 1828 | H/X | 1.1 | 180 | 58.6 | 30.6 | 54 | -23.4 |
| 2742 | H/X | 1.1 | 180 | 68.6 | 40.6 | 54 | -13.4 |
| 926 | V/X | 1.2 | 180 | 82.2 | 54.2 | 94 | -39.8 |
| 1852 | V/X | 1.0 | 180 | 48.5 | 20.5 | 54 | -33.5 |
| 2778 | V/X | 1.0 | 180 | 57.6 | 29.6 | 54 | -24.4 |
| 926 | H/X | 12.0 | 180 | 89.2 | 61.2 | 94 | -32.8 |
| 1852 | H/X | 1.0 | 090 | 52.8 | 24.8 | 54 | -29.2 |
| 2778 | H/X | 1.0 | 180 | 59.2 | 31.2 | 54 | -22.8 |
| 904 | V/Y | 1.2 | 225 | 87.4 | 59.4 | 94 | -34.6 |
| 1808 | V/Y | 1.1 | 180 | 50.9 | 22.9 | 54 | -31.1 |
| 2712 | V/Y | 1.0 | 180 | 64.1 | 36.1 | 54 | -17.9 |
| 904 | H/Y | 1.1 | 135 | 84.3 | 56.3 | 94 | -37.7 |
| 1808 | H/Y | 1.1 | 090 | 46.8 | 18.8 | 54 | -35.2 |
| 2712 | H/Y | 1.0 | 180 | 61.8 | 33.8 | 54 | -20.2 |
| 914 | V/Y | 1.2 | 135 | 89.3 | 61.3 | 94 | -32.7 |
| 1828 | V/Y | 1.1 | 135 | 60.9 | 32.9 | 54 | -21.1 |
| 2712 | V/Y | 1.0 | 180 | 67.5 | 39.5 | 54 | -14.5 |
| 914 | H/Y | 1.2 | 090 | 88.4 | 60.4 | 94 | -33.6 |
| 1828 | H/Y | 1.0 | 180 | 57.1 | 29.1 | 54 | -24.9 |
| 2742 | H/Y | 1.0 | 180 | 61.7 | 33.7 | 54 | -20.3 |
| 926 | V/Y | 1.2 | 270 | 88.4 | 60.4 | 94 | -33.6 |

| | | | | | | | |
|------|-----|-----|-----|------|------|----|-------|
| 1852 | V/Y | 1.0 | 180 | 56.6 | 28.6 | 54 | -25.4 |
| 2778 | V/Y | 1.0 | 180 | 63.5 | 35.5 | 54 | -18.5 |
| 926 | H/Y | 1.2 | 270 | 84.7 | 56.7 | 94 | -37.3 |
| 1852 | H/Y | 1.0 | 180 | 51.8 | 23.8 | 54 | -30.2 |
| 2778 | H/Y | 1.0 | 180 | 58.7 | 30.7 | 54 | -23.3 |
| | | | | | | | |
| 904 | V/Z | 1.2 | 180 | 88.1 | 60.1 | 94 | -33.9 |
| 1808 | V/Z | 1.1 | 180 | 64.4 | 36.4 | 54 | -17.6 |
| 2712 | V/Z | 1.1 | 135 | 54.8 | 26.8 | 54 | -27.2 |
| 904 | H/Z | 1.2 | 180 | 85.9 | 57.9 | 94 | -36.1 |
| 1808 | H/Z | 1.0 | 170 | 51.3 | 23.3 | 54 | -30.7 |
| 2712 | H/Z | 1.0 | 170 | 64.4 | 36.4 | 54 | -17.6 |
| | | | | | | | |
| 914 | V/Z | 1.2 | 135 | 90.8 | 62.8 | 94 | -31.2 |
| 1828 | V/Z | 1.1 | 135 | 67.3 | 39.3 | 54 | -14.7 |
| 2712 | V/Z | 1.1 | 180 | 66.6 | 38.6 | 54 | -15.4 |
| 914 | H/Z | 1.2 | 180 | 85.3 | 57.3 | 94 | -36.7 |
| 1828 | H/Z | 1.1 | 160 | 57.0 | 29 | 54 | -25 |
| 2742 | H/Z | 1.0 | 180 | 63.6 | 35.6 | 54 | -18.4 |
| | | | | | | | |
| 926 | V/Z | 1.2 | 135 | 89.6 | 61.6 | 94 | -32.4 |
| 1852 | V/Z | 1.0 | 090 | 60.6 | 32.6 | 54 | -21.4 |
| 2778 | V/Z | 1.0 | 180 | 60.1 | 32.1 | 54 | -21.9 |
| 926 | H/Z | 1.2 | 180 | 87.1 | 59.1 | 94 | -34.9 |
| 1852 | H/Z | 1.0 | 180 | 51.0 | 23 | 54 | -31 |
| 2778 | H/Z | 1.0 | 180 | 57.3 | 29.3 | 54 | -24.7 |

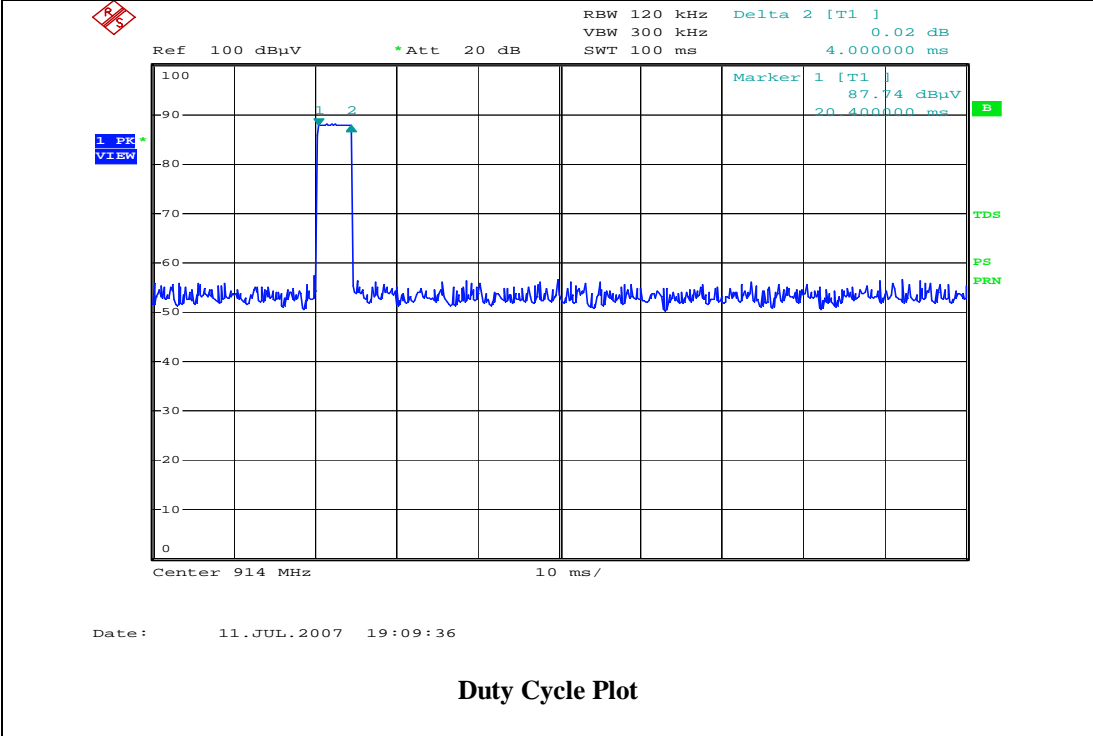
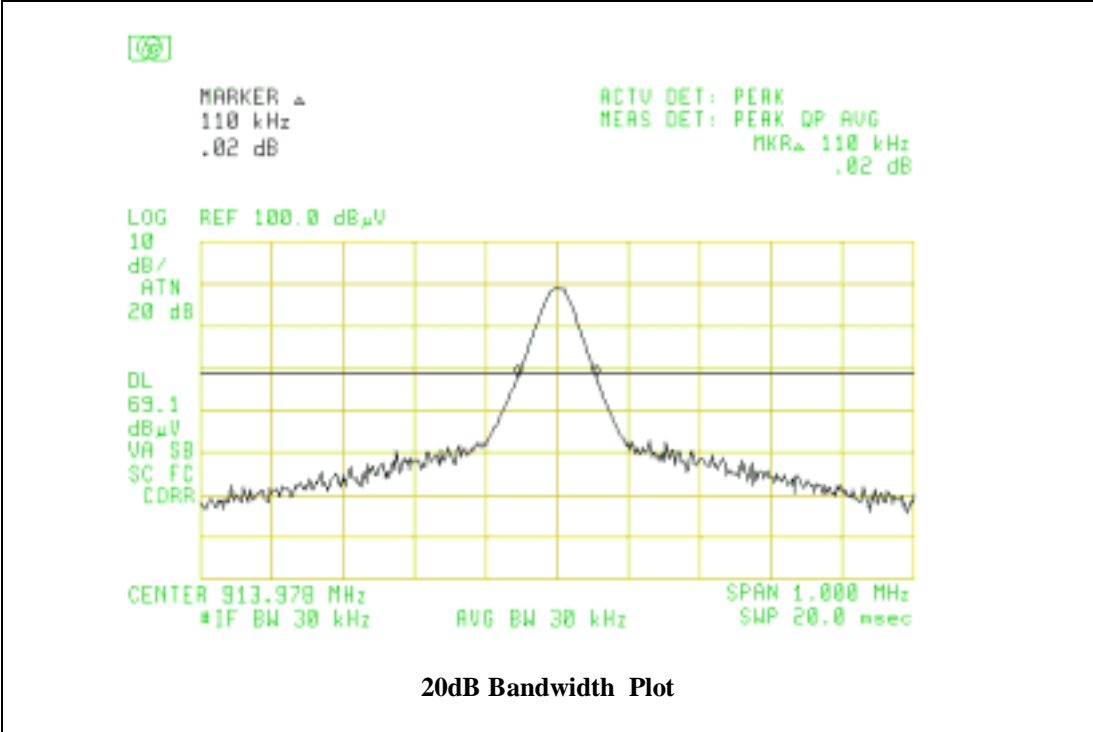
(1) The limit for emissions within the 902-928MHz band is 50mV(94dB) per Sec. 15.249. The limit for its harmonics is 500uV (54dB). Other spurious emissions shall be lower than either its fundamental by 50dB or the limit defined in Sec. 15.209, whichever is higher.

(2) If each peak reading is less than the FCC average limit, it'll be not necessary to show the measured/ calculated average reading.

Other Spurious outside of the band 902-928MHz

| Frequency (MHz) | Polarity (V,H) Position (X,Y,Z) | Antenna Height (m) | Azimuth (Degree) | Peak Reading at 3m (2) (dBuV/m) | Peak Reading After Correction (dBuV/m) | FCC 3m Limit (1) (dBuV/m) | Difference (dBuV/m) |
|----------------------------|--|-----------------------------------|-----------------------------|--|---|--|--------------------------------|
| 758 | V/Y | 1.1 | 180 | 31.2 | | 46.5 | -15.3 |
| 810 | V/Y | 1.1 | 180 | 31.4 | | 46.5 | -15.1 |
| 862 | V/Y | 1.1 | 180 | 34.9 | | 46.5 | -11.6 |
| 966 | V/Y | 1.1 | 180 | 40.0 | | 46.5 | -6.5 |
| 810 | H/Y | 1.0 | 090 | 40.0 | | 46.5 | -6.5 |
| 758 | H/X | 1.0 | 090 | 39.5 | | 46.5 | -7.0 |
| 862 | H/Y | 1.0 | 325 | 36.5 | | 46.5 | -10.0 |
| 966 | H/Y | 1.0 | 325 | 41.2 | | 46.5 | -5.3 |

Comparing to the limit defined in Sec. 15.209, emissions below the limit by 20dB were not recorded.



6. EUT RECEIVING MODE VERIFICATION

Radiated Test Data for Receiving Mode (worst case: Y-position)

| Frequency (MHz) | Polarity (H or V) | Antenna Height (m) | Azimuth (Degree) | Peak Reading at 3m(2) (dBuV/m) | FCC 3m Limit(1) (dBuV/m) | Difference (dBuV/m) |
|--------------------|----------------------|--------------------------|---------------------|---|--------------------------------|------------------------|
| 44.5 | H | 1.4 | 180 | 26.2 | 40.0 | -13.8 |
| 162.6 | H | 1.4 | 170 | 30.3 | 43.5 | -13.2 |
| 616 | H | 1.1 | 170 | 30.8 | 46.5 | -15.7 |
| 650 | H | 1.1 | 090 | 28.9 | 46.5 | -17.6 |
| 678 | H | 1.0 | 090 | 29.5 | 46.5 | -17.0 |
| 688 | H | 1.0 | 135 | 30.1 | 46.5 | -16.4 |
| 52.5 | V | 1.4 | 180 | 25.7 | 40.0 | -14.3 |
| 130.7 | V | 1.3 | 180 | 32.5 | 43.5 | -11.0 |
| 506 | V | 1.1 | 225 | 26.2 | 46.5 | -20.3 |
| 530 | V | 1.1 | 225 | 25.8 | 46.5 | -20.7 |

(1) Receiving mode spurious emissions shall be lower than the limit defined in Sec. 15.209.

(2) If each peak reading is less than the FCC average limit, it'll be not necessary to show the measured/ calculated average reading.