



香 港 標 準 及 檢 定 中 心  
Hong Kong Standards and Testing Centre

Date : 2004-06-23

No. : HM151395

**TEST REPORT**

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**Applicant:**

Audex Telecom Industrial Co., Ltd.  
1<sup>st</sup>-4<sup>th</sup> Floor, Xin Cun Kou, Qiwan Nan Road,  
Zhongshan, China

**Description of Samples:**

Model name: Wireless Speaker System  
Model no.: SP-68  
Brand name: Fonefree  
FCC ID: P68AFC30802F68

**Date Samples Received:**

2004-06-05

**Date Tested:**

2004-06-16

**Investigation Requested:**

FCC Part 15 Subpart C

**Conclusions:**

The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remarks:**

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K C Lee, EMC  
for Chief Executive

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**Appendix A**

List of Measurement Equipment

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**1.0 General Details**

**1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate  
New Territories, Hong Kong

**1.2 Applicant Details**  
**Applicant**

Audex Telecom Industrial Co., Ltd.  
1<sup>st</sup>-4<sup>th</sup> Floor, Xin Cun Kou, Qiwan Nan Road,  
Zhongshan, China

**HKSTC Code Number for Applicant**

**AUT002**

**Manufacturer**

Audex Telecom Industrial Co., Ltd.  
1<sup>st</sup>-4<sup>th</sup> Floor, Xin Cun Kou, Qiwan Nan Road,  
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**1.3 Equipment Under Test [EUT]  
Description of Sample**

|                |                                    |
|----------------|------------------------------------|
| Model Name:    | Wireless Speaker System            |
| Manufacturer:  | Audex Telecom Industrial Co., Ltd. |
| Brand Name:    | Fonefree                           |
| Model Number:  | SP-68                              |
| Input Voltage: | 1.5Vd.c. ("AAA" size battery x1)   |

**1.3.1 Description of EUT Operation**

The Equipment Under Test (EUT) is an INTERTAN-CANADA LTD., Wireless Speaker System. The transmitter is a 1 button transmitter. The EUT continues to transmit while button is being pressed, It is voice transmission, Modulation by Mic. and type is frequency modulation.

**1.4 Date of Order**

2004-06-05

**1.5 Submitted Sample(s):**

1 Sample per model

**1.6 Test Duration**

2004-06-16

**1.7 Country of Origin**

China

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**1.8 Additional Information of EUT**

User Manual  
Part List  
Circuit Diagram  
Printed Circuit Board [PCB] Layout  
Block diagram  
FCC ID Label

Submitted

Not Available

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**2.0 Technical Details**

**2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4:2003 for FCC Certification.

**2.2 Test Standards and Results Summary Tables**

| EMISSION<br>Results Summary                                  |                  |                 |                  |                                     |                          |                                     |
|--------------------------------------------------------------|------------------|-----------------|------------------|-------------------------------------|--------------------------|-------------------------------------|
| Test Condition                                               | Test Requirement | Test Method     | Class / Severity | Test Result                         |                          |                                     |
|                                                              |                  |                 |                  | Pass                                | Failed                   | N/A                                 |
| Field Strength of Fundamental Emissions & Spurious Emissions | FCC 47CFR 15.235 | ANSI C63.4:2003 | N/A              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Radiated Emissions, 30MHz to 1GHz                            | FCC 47CFR 15.209 | ANSI C63.4:2003 | Class B          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Conducted Emissions on AC, 0.15MHz to 30MHz                  | FCC 47CFR 15.207 | ANSI C63.4:2003 | Class B          | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Note: N/A - Not Applicable

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**3.0 Test Results**

**3.1 Emission**

**3.1.1 Radiated Emissions (30 – 1000MHz)**

|                    |                  |
|--------------------|------------------|
| Test Requirement:  | FCC 47CFR 15.235 |
| Test Method:       | ANSI C63.4:2003  |
| Test Date:         | 2004-06-16       |
| Mode of Operation: | On mode          |

**Test Method:**

The sample was placed 0.8m above the ground plane on the OATS \*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\*: OATS [Open Area Test Site] located at HKSTC with a metal ground plane filled with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.

**Test Setup:**



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**Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:**

| Frequency Range of Fundamental<br>[MHz] | Field Strength of Fundamental Emission<br>[Peak]<br>[ $\mu\text{V/m}$ ] | Field Strength of Fundamental Emission<br>[Average]<br>[ $\mu\text{V/m}$ ] |
|-----------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 49.82-49.90                             | 100,000                                                                 | 10,000                                                                     |

**Results:**

| Field Strength of Fundamental Emissions<br>Peak Value |                                          |                                         |                                      |                                   |                              |                  |
|-------------------------------------------------------|------------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------|------------------------------|------------------|
| Frequency<br>MHz                                      | Measured Level @3m<br>dB $\mu\text{V/m}$ | Correction Factor<br>dB $\mu\text{V/m}$ | Field Strength<br>dB $\mu\text{V/m}$ | Field Strength<br>$\mu\text{V/m}$ | Limit @3m<br>$\mu\text{V/m}$ | E-Field Polarity |
| 49.86                                                 | 29.1                                     | 10.2                                    | 39.3                                 | 92.3                              | 100,000                      | Horizontal       |

| Field Strength of Fundamental Emissions<br>Average |                              |                             |                          |                        |                   |                  |
|----------------------------------------------------|------------------------------|-----------------------------|--------------------------|------------------------|-------------------|------------------|
| Frequency<br>MHz                                   | Measured Level @3m<br>dB0V/m | Correction Factor<br>dB0V/m | Field Strength<br>dB0V/m | Field Strength<br>0V/m | Limit @3m<br>0V/m | E-Field Polarity |
| 49.86                                              | 29.0                         | 10.2                        | 39.2                     | 91.2                   | 100,000           | Horizontal       |

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be recorded. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth =3MHz  
Video Bandwidth =1Hz

**Remarks:**

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz  $\pm 4.1\text{dB}$

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**Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:**

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[μV/m] |
|--------------------------|-----------------------------|
| 30-88                    | 100                         |
| 88-216                   | 150                         |
| 216-960                  | 200                         |
| Above 960                | 500                         |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

**Results:**

| Radiated Emissions<br>Quasi-Peak |                                 |                                |                             |                           |                   |                     |
|----------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Frequency<br>MHz                 | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 99.72                            | < 1.0                           | 10.8                           | < 11.8                      | < 3.9                     | 150               | Vertical            |
| 149.58                           | < 1.0                           | 9.8                            | < 10.8                      | < 3.5                     | 150               | Vertical            |
| 199.44                           | < 1.0                           | 11.5                           | < 12.5                      | < 4.2                     | 150               | Vertical            |
| 249.30                           | < 1.0                           | 15.9                           | < 16.9                      | < 7.0                     | 200               | Vertical            |
| 299.16                           | < 1.0                           | 16.9                           | < 17.9                      | < 7.9                     | 200               | Vertical            |
| 349.02                           | < 1.0                           | 17.2                           | < 18.2                      | < 8.1                     | 200               | Vertical            |
| 398.88                           | < 1.0                           | 18.8                           | < 19.8                      | < 9.8                     | 200               | Vertical            |
| 448.74                           | < 1.0                           | 19.7                           | < 20.7                      | < 10.8                    | 200               | Vertical            |
| 498.60                           | < 1.0                           | 20.6                           | < 21.6                      | < 12.0                    | 200               | Vertical            |

**Remarks:**

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB

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**3.1.2 Conducted Emissions (0.15MHz to 30MHz)**

|                    |                  |
|--------------------|------------------|
| Test Requirement:  | FCC 47CFR 15.107 |
| Test Method:       | ANSI C63.4:2003  |
| Test Date:         | 2004-06-16       |
| Mode of Operation: | N/A              |

**Results:** N/A

The EUT is operated by a single source of internal battery power [located in the battery compartment], therefore power line conducted emission was deemed unnecessary.

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**3.2 20dB Bandwidth of Fundamental Emission**

|                    |                                  |
|--------------------|----------------------------------|
| Test Requirement:  | FCC 47 CFR 15.235                |
| Test Method:       | ANSI C63.4:2003 (Section 13.1.7) |
| Test Date:         | 2004-06-16                       |
| Mode of Operation: | On mode                          |

**Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

**Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

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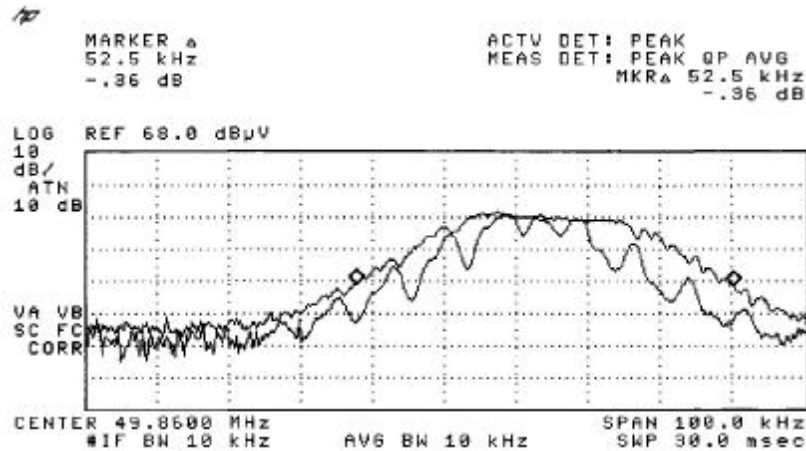
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**Limits for 20dB Bandwidth of Fundamental Emission:**

| Frequency Range<br>[MHz] | 20dB Bandwidth<br>[KHz] | FCC Limits<br>[MHz] |
|--------------------------|-------------------------|---------------------|
| 49.86                    | 52.5                    | within 49.82-49.90  |

**20dB Bandwidth of Fundamental Emission**



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**Appendix A**

**Test Equipment Audit**

**Radiated Emission**

| EQP NO. | DESCRIPTION                                                                  | MANUFACTURER                                          | MODEL NO.                      | SERIAL NO.                             | LAST CAL |
|---------|------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------|----------------------------------------|----------|
| EM007   | SPECTRUM ANALYZER                                                            | HEWLETT PACKARD                                       | HP85660B                       | 3144A21192                             | 14/03/03 |
| EM008   | SPECTRUM ANALYZER DISPLAY                                                    | HEWLETT PACKARD                                       | HP85662A                       | 3144A20514                             | 14/03/03 |
| EM009   | QUASI PEAK ADAPTOR                                                           | HEWLETT PACKARD                                       | HP85650A                       | 3303A01702                             | 14/03/03 |
| EM010   | RF PRESELECTOR                                                               | HEWLETT PACKARD                                       | HP85685A                       | 3221A01410                             | 14/03/03 |
| EM011   | ATTENUATOR/SWITCH                                                            | HEWLETT PACKARD                                       | HP11713A                       | 2508A10595                             | 14/03/03 |
| EM012   | PRE-AMPLIFIER                                                                | HEWLETT PACKARD                                       | HP8449B                        | 3008A00262                             | 14/03/03 |
| EM013   | CONTROLLER (COMPUTER),<br>COLOR MONITOR, KEYBOARD &<br>MOUSE<br>FLOPPY DRIVE | HEWLETT PACKARD<br>HEWLETT PACKARD<br>HEWLETT PACKARD | HP9000<br>HP A1097C<br>HP9133L | 6226A60314<br>3151J39517<br>2623A02468 | CM       |
| EM020   | HORN ANTENNA                                                                 | EMCO                                                  | 3115                           | 4032                                   | 19/07/00 |
| EM022   | LOOP ANTENNA                                                                 | EMCO                                                  | 6502                           | 1189-2424                              | 04/08/00 |
| EM072   | SIGNAL GENERATOR                                                             | HEWLETT PACKARD                                       | 8640B                          | 1948A11892                             | N/A      |
| EM083   | HKSTC OPEN AREA TEST SITE                                                    | HKSTC                                                 | N/A                            | N/A                                    | 08/11/02 |
| EM131   | PORTABLE SPECTRUM<br>ANALYSER                                                | HEWLETT PACKARD                                       | 8595EM                         | 3710A00155                             | 18/12/01 |
| EM145   | EMI TEST RECEIVER                                                            | R & S                                                 | ESCS 30                        | 830245/021                             | 02/08/03 |
| EM194   | BICONILOG ANTENNA                                                            | EMCO                                                  | 3142B                          | 1795                                   | 14/05/02 |
| EM195   | ANTENNA POSITIONING MAST                                                     | EMCO                                                  | 2075                           | 2368                                   | N/A      |
| EM196   | MULTI-DEVICE CONTROLLER                                                      | EMCO                                                  | 2090                           | 1662                                   | N/A      |

**Conducted Emission**

| EQP NO. | DESCRIPTION                         | MANUFACTURER                     | MODEL NO.  | SERIAL NO.          | LAST CAL |
|---------|-------------------------------------|----------------------------------|------------|---------------------|----------|
| EM078   | VARIAC                              | SHANGHAI VOLTAGE                 | TDGC-3/0.5 | N/A                 | CM       |
| EM081   | SMALL SCREENED ROOM                 | MIKO INST HK                     | N/A        | N/A                 | 18/10/02 |
| EM119   | LISN                                | R & S                            | ESH3-Z5    | 0831.5518.52        | 01/10/02 |
| EM127   | ISOLATION TRANSFORMER 220<br>TO 300 | WING SUN                         | N/A        | N/A                 | CM       |
| EM142   | PULSES LIMITER                      | R & S                            | ESH3Z2     | 357.8810.52         | 03/07/02 |
| EM181   | EMI TEST RECEIVER                   | R & S                            | ESIB7      | 100072              | 28/11/01 |
| EM154   | SHIELDING ROOM                      | SIEMENA MATSUSHITA<br>COMPONENTS | N/A        | 803-740-057-<br>99A | 18/10/02 |
| EM197   | LISN                                | EMCO                             | 4825/2     | 1193                | 08/04/03 |

Remarks:

CM      Corrective Maintenance  
N/A      Not Applicable or Not Available  
TBD      To Be Determined

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Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)  
For full text of "Conditions of Issuance of Test Report", please refer to overleaf or refer to the website of  
STC: [www.hkstc.org](http://www.hkstc.org) (the section "Application and Quotation").



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**Appendix B**

**Photographs of EUT**

**Front View of the product**



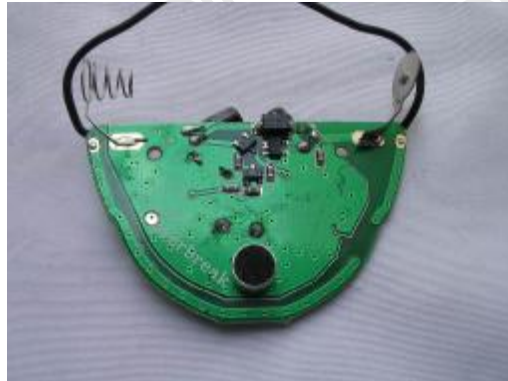
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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Photographs of EUT

Measurement of Radiated Emission Test Set Up



\*\*\*\*\* End of Test Report \*\*\*\*\*

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