



**EMC Compliance  
Management Group**  
670 National Avenue  
Mountain View, CA 94043  
Tel. (650) 988-0900  
Fax (650) 988-6647

Competent Body Approval #: 14082  
NVLAP Lab code: 200068-0

# EMC TEST REPORT

On Model: WT-968B  
Prepared for Well Task (Asia) Ltd.

According to FCC Part 15 Class B  
CERTIFICATION REPORT

<i>FCC ID#:</i>	<i>OQEW968B49</i>
<i>Prepared by:</i>	<i>Tian Wang</i>
<i>QC Manager:</i>	<i>Michael J. Azar</i>

# DECLARATION OF CONFORMITY

## According to FCC Part 15

**Responsible Party Name** : Well Task (Asia) Ltd.

**Address** : Unit 708-B, 7/F, Fibres & Fabrics Ind.  
Centre, No. 7, Shing Yip St., Kwun Tong  
kln., Hong Kong

**Telephone** : 2433-3333

**Declares that product** : Toy Walkie Talkie (Receiver Portion)

**Model Name** : WT-968B

**Complies with Part 15 of the FCC Rules.**

*This device complies with Part 15 of the FCC rules. Operations 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.*

### Responsible Party:

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Signature: \_\_\_\_\_

### Test Laboratory:

This is the result of tests, that were carried out from the submitted product sample(s) in conformity with the specification of the respective standards. The certification holder has the right to affix the FCC label on the product complying with the inspection sample.



670 National Ave. Mountain View, CA 94043  
650-988-0900 650-988-6647(Fax)



Accreditation #: 200068-0

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### **Government Disclaimer Notice**

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#### **ADMINISTRATIVE DATA**

*Test Sample* : WT-968B

*Part Number* : N/A

*Manufacturer* : Well Task (Asia) Ltd.  
Unit 708-B, 7/F, Fibres & Fabrics Ind.  
Centre, No. 7, Shing Yip St., Kwun Tong  
Kln, Hong Kong

*Telephone* : 2433-3333

*Fax* : 2708-9496

#### **EUT Description**

*Well Task (Asia) Ltd., model WT-968B (referred to as the EUT in this report) is a Toy Walkie Talkie (Receiver Portion).*

### ***Test Summary***

*The Electromagnetic Compatibility requirements on Model WT-968B for this test are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.*

<b><i>Emission Tests</i></b>			
<b><i>Specifications</i></b>	<b><i>Test Results</i></b>	<b><i>Test Point</i></b>	<b><i>Remark</i></b>
<i>CFR 47 Part 15 Section 15.209</i>	<i>Conducted Emission</i>	<i>AC Input Port</i>	<i>Attachment 1</i>
<i>CFR 47 Part 15 Section 15.235 (a)</i>	<i>Field Strength</i>	<i>Enclosure</i>	<i>Attachment 2</i>
<i>CFR 47 Part 15 Section 15.235 (b) &amp; 15.209</i>	<i>Harmonics Measurement</i>	<i>Enclosure</i>	<i>Attachment 3</i>

### **Test Location**

*EMC Compliance Management Group is located at 670 National Ave., Mountain View, CA 94043, USA.*

### **Accreditation Bodies**

*EMC Compliance Management Group is a fully accredited Test Laboratory for ITE, ISM and Telecommunications Products.*



*Laboratory Assessment #: 14082, Approved by Assessment Services, A U. K. Competent Body, as meeting the requirements of EN45001 and ISO Guide 25.*



*In compliance with the site registration requirements of Section 2.948 of the FCC Rules to perform EMI measurements for the general public.*



*Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code # 200068-0.*



*Registered in accordance with Japanese VCCI Regulations.*

### ***Antenna Requirement 15.203***

*The transmitter uses a permanently connected antenna.*



## Product Labeling

WELL TASK INDUSTRIAL

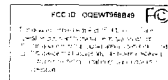


### WELL TASK (ASIA) LIMITED

UNIT 708-B, 7/F,  
FIBRES & FABRICS IND. CENTRE,  
NO. 7, SHING YIP ST.,  
KWUN TONG, KLN., H.K.  
Tel: 2433-3333 Fax: 2708-9496

8 October, 1999

#### SAMPLE LABEL



Scale 1 : 1  
For Model "WT-968B"  
Label Size : 32.0 x 15.0 mm

**FCC ID : OQEW968B49**



This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

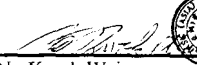
- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

For Model "WT-968B"

Label Size : 32.0 x 15.0 mm

This is to certify that the label shown above will be the production label to be used on production units of model WT-968B. FCC ID number: OQEW968B49.



  
Mr. Ng Kwok Wai  
General Manager

**FCC ID #: OQEW968B49**

**Prepared for Well Task (Asia) Ltd.**

**Prepared by EMC Compliance Management Group**

**Page 6 of 18**

### ***System Test Justification***

*Base unit has the capability of using an external AC/DC Adapter. Emissions were thus maximized with the DC Power Cord.*

### ***Equipment Modification***

*To achieve compliance to FCC Part 15 Class B ,  
the following change(s) were made by EMC  
Compliance Management Group during  
compliance testing:*

- a. Added 10pf capacitor between B & E of Q5.*

*The above modifications will be implemented in  
all production models of this equipment.*



\_\_\_\_\_  
*Applicant Signature*

\_\_\_\_\_  
*PAUL F. Chen*

*Typed/Printed Name*

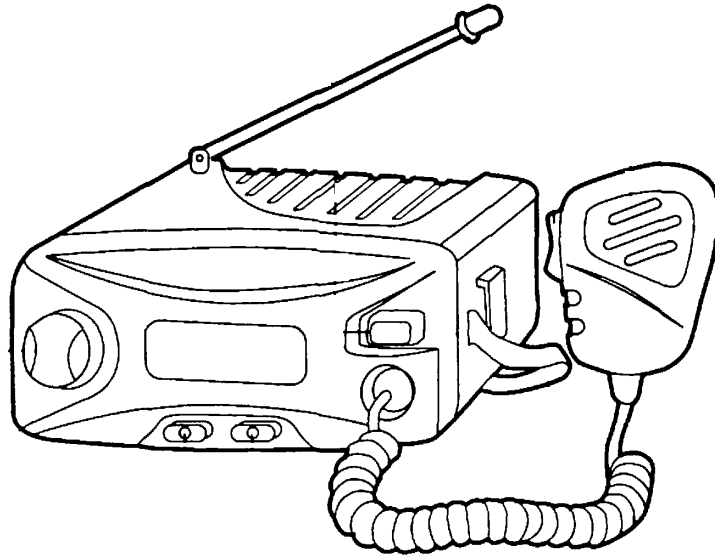
\_\_\_\_\_  
*Lab Director*

*Position*

### ***Test System Details***

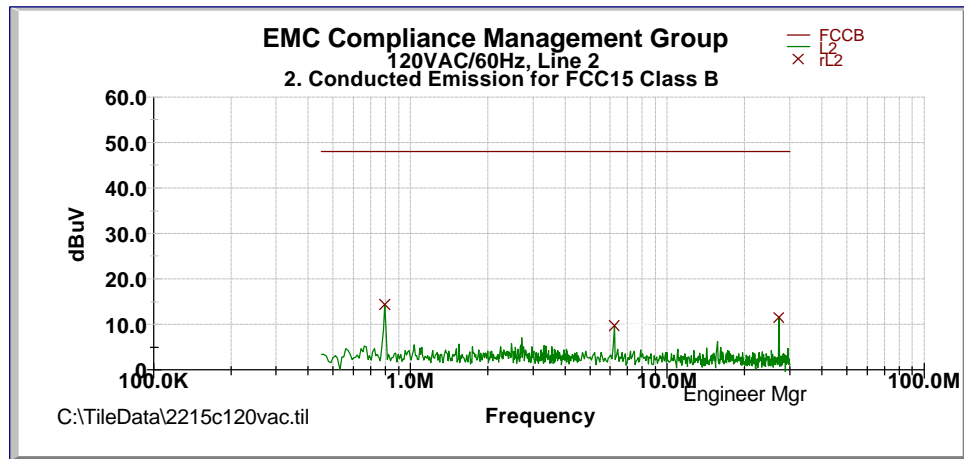
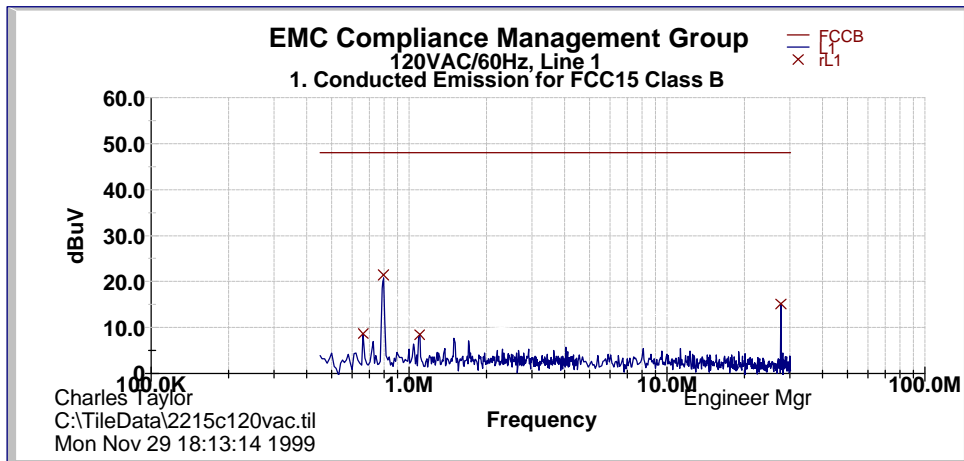
<b><i>EUT</i></b>	
<b><i>Model Number:</i></b>	<b><i>WT-968B</i></b>
<b><i>Description:</i></b>	<b><i>Toy Walkie Talkie (Receiver Portion)</i></b>
<b><i>Manufacturer:</i></b>	<b><i>Well Task (Asia) Ltd.</i></b>
<b><i>Support Equipment</i></b>	
<b><i>None</i></b>	

## *Configuration of Tested System*



**ATTACHMENT 1 CFR 15.109 CONDUCTED EMISSION TEST RESULTS** (202-C-01)

<b>CLIENT:</b>	Well Task (Asia) Ltd.	<b>TEST REFERENCE:</b>	CFR 47 Part 15 Section 15.109
<b>EUT MODEL:</b>	WT-968B	<b>PRODUCT:</b>	Toy Walkie Talkie (Receiver Portion)
<b>SERIAL NO.:</b>	N/A	<b>EUT DESIGNATION:</b>	Residential Use
<b>TEMPERATURE:</b>	19°C	<b>HUMIDITY:</b>	60%
<b>ATM PRESSURE:</b>	1017 Mbar	<b>GROUNDING:</b>	Through AC Power Cord
<b>TESTED BY:</b>	Paul F. Chen	<b>DATE OF TEST:</b>	10/02/99
<b>SETUP METHOD:</b>	ANSI C63.4 - 1992, CISPR 16-1:1993		
<b>TEST PROCEDURE:</b>	The EUT is set up according to the guideline of ANSI C63.4 for conducted emissions. The measurement is using a LISN probe on each line and an EMI receiver peak scan is made at the frequency measurement range. The six highest significant peaks are then marked, and these signals are then quasi-peaked and averaged. The frequency range investigated is from 450KHz to 30MHz.		
<b>TESTED RANGE:</b>	450kHz to 30MHz		
<b>TEST VOLTAGE:</b>	120 Volts, 60 Hz AC to DC Adapter.		
<b>RESULTS:</b>	The EUT meets the requirements of test reference for Conducted Emissions. No significant Emissions were found. The test results relate only to the equipment under test provided by client.		
<b>CHANGES OR MODIFICATIONS:</b>	There were no modifications installed by EMC Compliance Management Group test personnel.		
<b>M. UNCERTAINTY:</b>	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp $\pm 2.6$ dB		



Line	Frequency [MHz]	Corrected QP Reading [dB(μV)]	Delta QP [dB]	Limit [dB(μV)/m]
No measurable emissions were found.				
Note: All reading are using a bandwidth of 9 kHz, with a 30 ms sweep time. A video filter was not used.				

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due Date
EMI Receiver	HP 85462A	3650A00363	05/21/99	05/21/00
RF Filter	HP 85460A	3704A00349	05/21/99	05/21/00
LISN	EMCO	109804	10/14/99	10/14/00
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).				

SIGNED:

REVIEWED:



**ATTACHMENT 2 CFR 15.235 (a) FIELD STRENGTH RESULTS (202-R-01)**

<b>CLIENT:</b>	Well Task (Asia) Ltd.	<b>TEST REFERENCE:</b>	CFR 47 Part 15 Section 15.235 (a)
<b>EUT MODEL:</b>	WT-968B	<b>PRODUCT:</b>	Toy Walkie Talkie (Receiver Portion)
<b>SERIAL NO.:</b>	N/A	<b>EUT DESIGNATION:</b>	Residential Use
<b>TEMPERATURE:</b>	29°C	<b>HUMIDITY:</b>	87%
<b>ATM PRESSURE:</b>	1017 Mbar	<b>GROUNDING:</b>	Battery Powered
<b>TESTED BY:</b>	Paul F. Chen	<b>DATE OF TEST:</b>	09/31/99
<b>SETUP METHOD:</b>	ANSI C63.4: 1992, CISPR 16-1:1993		
<b>TEST PROCEDURE:</b>	<p>The EUT is set up according to the guidelines of ANSI C63.4:1992 for radiated emissions. An EMI receiver peak scan is made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination is then performed and the significant peaks marked. These peaks are then average in the frequency range of 30 MHz to 1GHz at OATS.</p> <p>The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor is given as follows:</p> <p>FS= RA + AF + CF - AG</p> <p>Where: FS = Field Strength</p> <p>RA = Receiver Amplitude</p> <p>AF = Antenna Factor</p> <p>CF = Cable Attenuation Factor</p> <p>AG = Amplifier Gain</p>		
<b>TESTED RANGE:</b>	30MHz to 1,000MHz		
<b>TEST VOLTAGE:</b>	9 Volts Battery (before test : 9.13 Volts; after test 9.02 Volts) & 120V, 60 Hz AC to DC adapter.		
<b>RESULTS:</b>	The EUT meets the requirements of test reference for Radiated Emissions on vertical polarization by 2.0 dB at 44.1125MHz. The test results relate only to the equipment under test provided by client.		
<b>CHANGES OR MODIFICATIONS:</b>	There are modifications installed by EMC Compliance Management Group test personnel. Please see attached photo as followed.		
<b>M. UNCERTAINTY:</b>	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp $\pm 2.6$ dB		

**FCC ID #: OQEW968B49****Prepared for Well Task (Asia) Ltd.****Prepared by EMC Compliance Management Group****Page 14 of 18**

Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB $\mu$ V/m]	Delta, AVE [dB]	3 Meters Limits [dB $\mu$ V/m]	Correction Factors [dB/m]
Set-up/Configuration: The RX/TX antenna of EUT was tested at both polarization.					
44.1125	V	38.0	-2.0	40.0	12.9
45.1545	H	35.4	-4.6	40.0	12.9
Note: According to CFR 15.35. All readings are AVERAGED unless stated otherwise, using an IF bandwidth of 120kHz, with a 30 ms sweep time. A video filter was not used.					

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due Date
EMI Receiver	HP 85462A	3650A00363	05/21/99	05/21/00
RF Filter	HP 85460A	3704A00349	05/21/99	05/21/00
Antenna	CHASE CBL6112A	2274	11/15/99	11/15/00
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).				

SIGNED:



REVIEWED:



**ATTACHMENT 3 CFR 15.235 (b) HARMONICS MEASUREMENT RESULTS (202-R-02)**

<b>CLIENT:</b>	Well Task (Asia) Ltd.	<b>TEST REFERENCE:</b>	CFR 47 Part 15 Section 15.235 (b) and 15.109
<b>EUT MODEL:</b>	WT-968B	<b>PRODUCT:</b>	Toy Walkie Talkie (Receiver Portion)
<b>SERIAL NO.:</b>	N/A	<b>EUT DESIGNATION:</b>	Residential Use
<b>TEMPERATURE:</b>	29°C	<b>HUMIDITY:</b>	87%
<b>ATM PRESSURE:</b>	1017 Mbar	<b>GROUNDING:</b>	Battery Powered
<b>TESTED BY:</b>	Paul Chen	<b>DATE OF TEST:</b>	09/31/99
<b>SETUP METHOD:</b>	ANSI C63.4: 1992, CISPR 16-1:1993		
<b>TEST PROCEDURE:</b>	<p>The EUT is set up according to the guidelines of ANSI C63.4:1992 for radiated emissions. An EMI receiver peak scan is made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination is then performed and the significant peaks marked. These peaks are then average in the frequency range of 30 MHz to 1GHz at OATS.</p> <p>The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor is given as follows:</p> <p>FS= RA + AF + CF - AG</p> <p>Where: FS = Field Strength</p> <p>RA = Receiver Amplitude</p> <p>AF = Antenna Factor</p> <p>CF = Cable Attenuation Factor</p> <p>AG = Amplifier Gain</p>		
<b>TESTED RANGE:</b>	30MHz to 1,000MHz		
<b>TEST VOLTAGE:</b>	9 Volts Battery ( <u>before test: 9.13 Volts; after test 9.02 Volts</u> ) & 120V, 60 Hz AC to DC adapter.		
<b>RESULTS:</b>	The EUT meets the requirements of test reference for Radiated Emissions on horizontal polarization by 1.0 dB at 398.8317MHz. The test results relate only to the equipment under test provided by client.		
<b>CHANGES OR MODIFICATIONS:</b>	There are modifications installed by EMC Compliance Management Group test personnel. Please see attached photo as followed.		
<b>M. UNCERTAINTY:</b>	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp $\pm 2.6$ dB		

**FCC ID #: OQEW968B49****Prepared for Well Task (Asia) Ltd.****Prepared by EMC Compliance Management Group****Page 16 of 18**

Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB $\mu$ V/m]	Delta, QP [dB]	3 Meters Limits [dB $\mu$ V/m]	Correction Factors [dB/m]
Set-up/Configuration: The RX/TX antenna of EUT was tested at both vertical and horizontal polarization.					
398.8317	H	45.0	-1.0	46.0	19.9
398.8317	V	44.9	-1.1	46.0	19.9
797.6561	V	44.5	-1.5	46.0	26.5
299.1236	V	44.5	-1.5	46.0	16.2
847.3137	H	43.2	-2.8	46.0	27.2
847.5000	V	43.0	-3.0	46.0	27.2
797.6663	H	41.1	-4.9	46.0	26.5
348.9725	V	37.7	-8.3	46.0	18.1
299.1182	H	37.6	-8.4	46.0	16.2
299.1224	H	37.4	-8.6	46.0	16.2
448.6635	V	36.7	-9.3	46.0	20.8
648.0861	V	36.0	-10.0	46.0	24.3
548.3803	V	31.7	-14.3	46.0	22.7
Note: All readings are Quasi-Peaked unless stated otherwise, using an IF bandwidth of 120kHz, with a 30 ms sweep time. A video filter was not used.					

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due Date
EMI Receiver	HP 85462A	3650A00363	05/21/99	05/21/00
RF Filter	HP 85460A	3704A00349	05/21/99	05/21/00
Antenna	CHASE CBL6112A	2274	11/15/99	11/15/00
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated and traceable to the National Institute of Standards and Technology (NIST).				

SIGNED:  \_\_\_\_\_

REVIEWED:  \_\_\_\_\_