



**EMC Compliance
Management Group**
670 National Avenue
Mountain View, CA 94043
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*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

FCC ID#: OQEWT968B49

Prepared by: Tian Wang

QC Manager: Michael J. Azar

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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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.

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

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

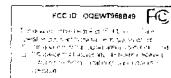


WELL TASK (ASIA) LIMITED

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 : OQEWT968B49



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: OQEWT968B49.

Mr. Ng Kwok Wai
General Manager



FCC ID #: OQEWT968B49

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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

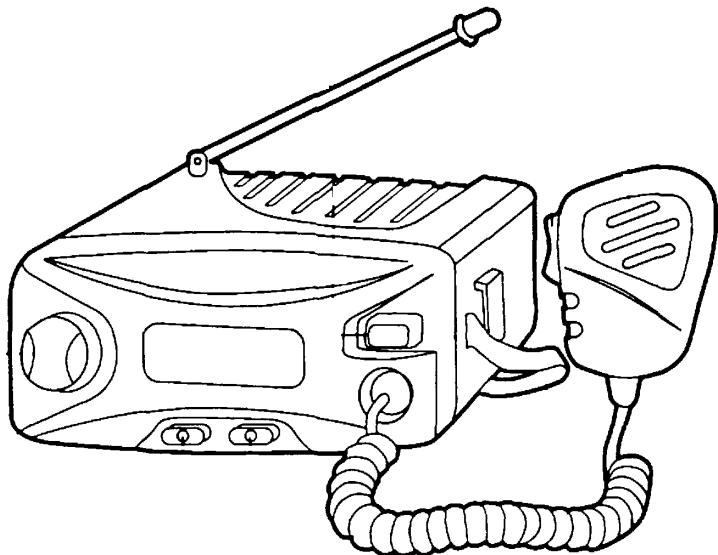
PAUL F. Chen
Typed/Printed Name

Lab Director
Position

Test System Details

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

Configuration of Tested System



FCC ID #: OQEWT968B49

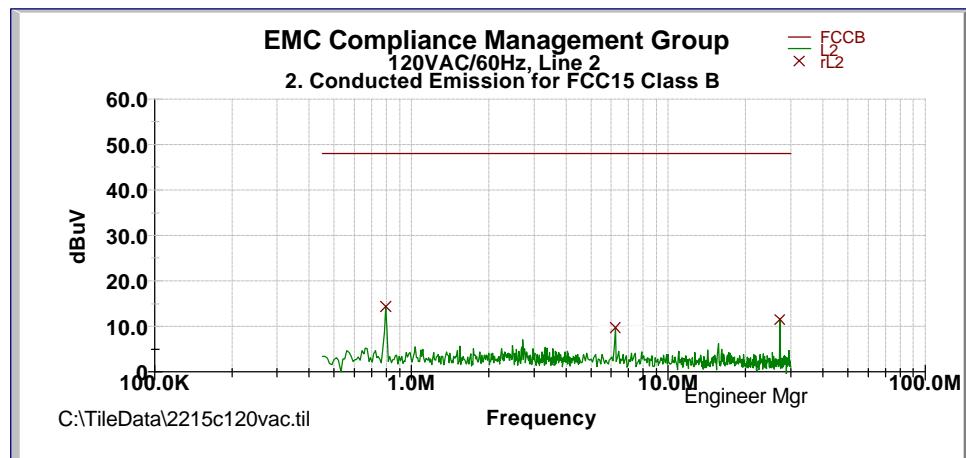
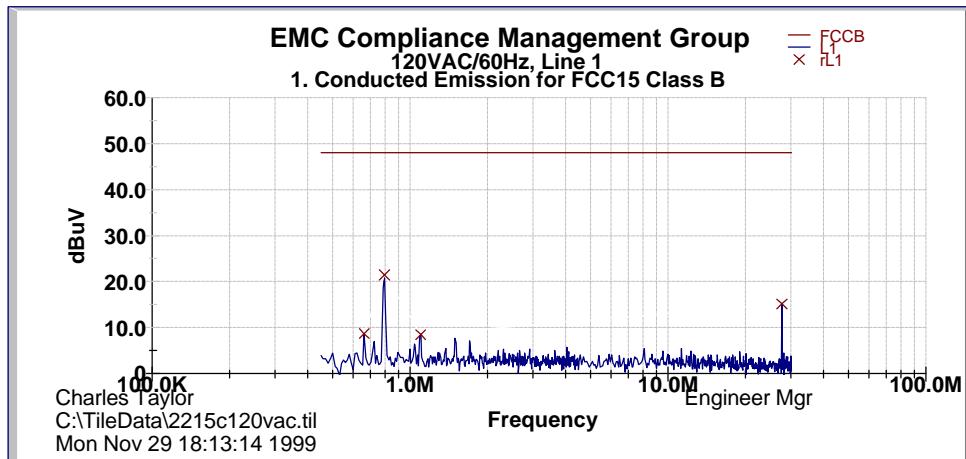
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ATTACHMENT 1 CFR 15.109 CONDUCTED EMISSION TEST RESULTS (202-C-01)

CLIENT:	Well Task (Asia) Ltd.	TEST REFERENCE:	CFR 47 Part 15 Section 15.109
EUT MODEL:	WT-968B	PRODUCT:	Toy Walkie Talkie (Receiver Portion)
SERIAL NO.:	N/A	EUT DESIGNATION:	Residential Use
TEMPERATURE:	19°C	HUMIDITY:	60%
ATM PRESSURE:	1017 Mbar	GROUNDING:	Through AC Power Cord
TESTED BY:	Paul F. Chen	DATE OF TEST:	10/02/99
SETUP METHOD:	ANSI C63.4 - 1992, CISPR 16-1:1993		
TEST PROCEDURE:	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.		
TESTED RANGE:	450kHz to 30MHz		
TEST VOLTAGE:	120 Volts, 60 Hz AC to DC Adapter.		
RESULTS:	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.		
CHANGES OR MODIFICATIONS:	There were no modifications installed by EMC Compliance Management Group test personnel.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp ± 2.6 dB		

FCC ID #: OQEWT968B49**Prepared for Well Task (Asia) Ltd.****Prepared by EMC Compliance Management Group**



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.				

FCC ID #: OQEWT968B49

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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: 

FCC ID #: OQEWT968B49

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

CLIENT:	Well Task (Asia) Ltd.	TEST REFERENCE:	CFR 47 Part 15 Section 15.235 (a)
EUT MODEL:	WT-968B	PRODUCT:	Toy Walkie Talkie (Receiver Portion)
SERIAL NO.:	N/A	EUT DESIGNATION:	Residential Use
TEMPERATURE:	29°C	HUMIDITY:	87%
ATM PRESSURE:	1017 Mbar	GROUNDING:	Battery Powered
TESTED BY:	Paul F. Chen	DATE OF TEST:	09/31/99
SETUP METHOD:	ANSI C63.4: 1992, CISPR 16-1:1993		
TEST PROCEDURE:	<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>		
TESTED RANGE:	30MHz to 1,000MHz		
TEST VOLTAGE:	9 Volts Battery (before test : 9.13 Volts; after test 9.02 Volts) & 120V, 60 Hz AC to DC adapter.		
RESULTS:	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.		
CHANGES OR MODIFICATIONS:	There are modifications installed by EMC Compliance Management Group test personnel. Please see attached photo as followed.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp ± 2.6 dB		

FCC ID #: OQEWT968B49

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Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB ₁ μV/m]	Delta, AVE [dB]	3 Meters Limits [dB ₁ μV/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: 

FCC ID #: OQEWT968B49

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

CLIENT:	Well Task (Asia) Ltd.	TEST REFERENCE:	CFR 47 Part 15 Section 15.235 (b) and 15.109
EUT MODEL:	WT-968B	PRODUCT:	Toy Walkie Talkie (Receiver Portion)
SERIAL NO.:	N/A	EUT DESIGNATION:	Residential Use
TEMPERATURE:	29°C	HUMIDITY:	87%
ATM PRESSURE:	1017 Mbar	GROUNDING:	Battery Powered
TESTED BY:	Paul Chen	DATE OF TEST:	09/31/99
SETUP METHOD:	ANSI C63.4: 1992, CISPR 16-1:1993		
TEST PROCEDURE:	<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>		
TESTED RANGE:	30MHz to 1,000MHz		
TEST VOLTAGE:	9 Volts Battery (before test: 9.13 Volts; after test 9.02 Volts) & 120V, 60 Hz AC to DC adapter.		
RESULTS:	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.		
CHANGES OR MODIFICATIONS:	There are modifications installed by EMC Compliance Management Group test personnel. Please see attached photo as followed.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp ± 2.6 dB		

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Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB μ V/m]	Delta, QP [dB]	3 Meters Limits [dB μ 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).				

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