



MOST TECHNOLOGY SERVICE CO., LTD.

Tel: (86) 755-86170306 Fax: (86) 755-86170310

Http:// www. szmost.com Email: szmost@szmost.com

Test Report

Product Name: 4 TRANSISTORS WALKIE TALKES

FCC ID: VCH-KL5019W

MODEL NO. : KL-5019W

Applicant:

KAR LOK TOYS MANUFACTURING LIMITED

Rm A-B, 7/F., Yau Tong Ind. Bldg., Blk 3, 2 Sze Shan Street, Yau Kowloon Hong Kong

Date Received: 6/19/2007

Date Tested: 6/19/2007

APPLICANT: KAR LOK TOYS MANUFACTURING LIMITED

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Cover Sheet



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EMC Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|--------------------------------|---------------|----------------|-------------|-------------|---------------|
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 100492 | Apr 06,2007 | 1 Year |
| LISN | ROHDE&SCHWARZ | ENV216 | 100093 | Apr 06,2007 | 1Year |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101202 | Apr 06,2007 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Apr 06,2007 | 1 Year |
| Bilog Antenna | Sunol | JB3 | A121206 | Apr 06,2007 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Apr 06,2007 | 1 Year |
| Cable | Resenberger | N/A | NO.1 | Apr 06,2007 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.2 | Apr 06,2007 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.3 | Apr 06,2007 | 1 Year |
| Single Phase Power Line Filter | Kikusui | LIN40MA-PC R-L | LM002352 | Apr 06,2007 | 1Year |
| AC Power Source | Kikusui | AC40MA | LM003232 | Apr 06,2007 | 1Year |
| Test analyzer | Kikusui | KHA1000 | LM003720 | Apr 06,2007 | 1Year |
| ESD Tester | Kikusui | KES4021 | LM003537 | Apr 08,2007 | 1 Year |
| Signal Generator | IFR | 2032 | 203002/100 | Apr 08,2007 | 1 Year |
| Amplifier | A&R | 150W1000 | 301584 | NCR | NCR |
| Dual Directional Coupler | A&R | DC6080 | 301508 | Apr 06,2007 | 1 Year |
| Power Head | A&R | PH2000 | 301193 | Apr 06,2007 | 1 Year |
| Power Meter | A&R | PM2002 | 302799 | Apr 06,2007 | 1 Year |
| Field Monitor | A&R | FM5004 | 300329 | Apr 06,2007 | 1 Year |
| Field Probe | A&R | FP5000 | 300221 | Apr 06,2007 | 1 Year |
| EMC PRO System | EM Test | UCS-500-M4 | V0648102026 | Apr 06,2007 | 1 Year |
| EMC PRO System | EM Test | UCS-500-M4 | V0648102026 | Apr 06,2007 | 1 Year |

Remark:

Test Firm Name: Most Technology Service Co., Ltd.

Test Firm Address:

No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China

FCC Registered Test Site Number: 490827

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 UH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS
33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.



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FCC ID: VCH-KL5019W

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.235

REQUIREMENTS: CARRIER FREQUENCY WILL NOT EXCEEDS 80 dBuV/m AT 3M.
OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

| | |
|---------------|----------------------------------|
| 30 - 88 MHz | 40.0 dBuV/M MEASURED AT 3 METERS |
| 88 - 216 MHz | 43.5 dBuV/M |
| 216 - 960 MHz | 46.0 dBuV/M |
| ABOVE 960 MHz | 54.0 dBuV/M |

Fundamental Radiation Interference Data:

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | FCC 15 Subpart C Limit (dBuV/m) |
|-----------------|----------------------|-------------------------|---------------------------------|
| 49.86 | Horizontal | 44.94 | 80 |
| 49.86 | Vertical | 42.57 | 80 |



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| ABOVE 960 MHz | 54.0 dBuV/M |

Continued:

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | FCC 15 Subpart C Limit (dBuV/m) |
|-----------------|----------------------|-------------------------|---------------------------------|
| 91.54 | Horizontal | 21.17 | 43.50 |
| 718.260 | Horizontal | 31.05 | 46.00 |
| 727.100 | Vertical | 30.65 | 46.00 |

SAMPLE CALCULATION: FSdBuV/m = MR (dBuV) + ACFdB.

TEST PROCEDURE: The procedure used was ANSI STANDARD C63.4-2003. The spectrum was scanned from 30 MHz to 1000 MHz. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported.



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NAME OF TEST: Occupied Bandwidth

RULES PART NUMBER: 15.235

REQUIREMENTS: The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the un-modulated carrier or to the general limits of 15.209, whichever permits the higher emission levels.

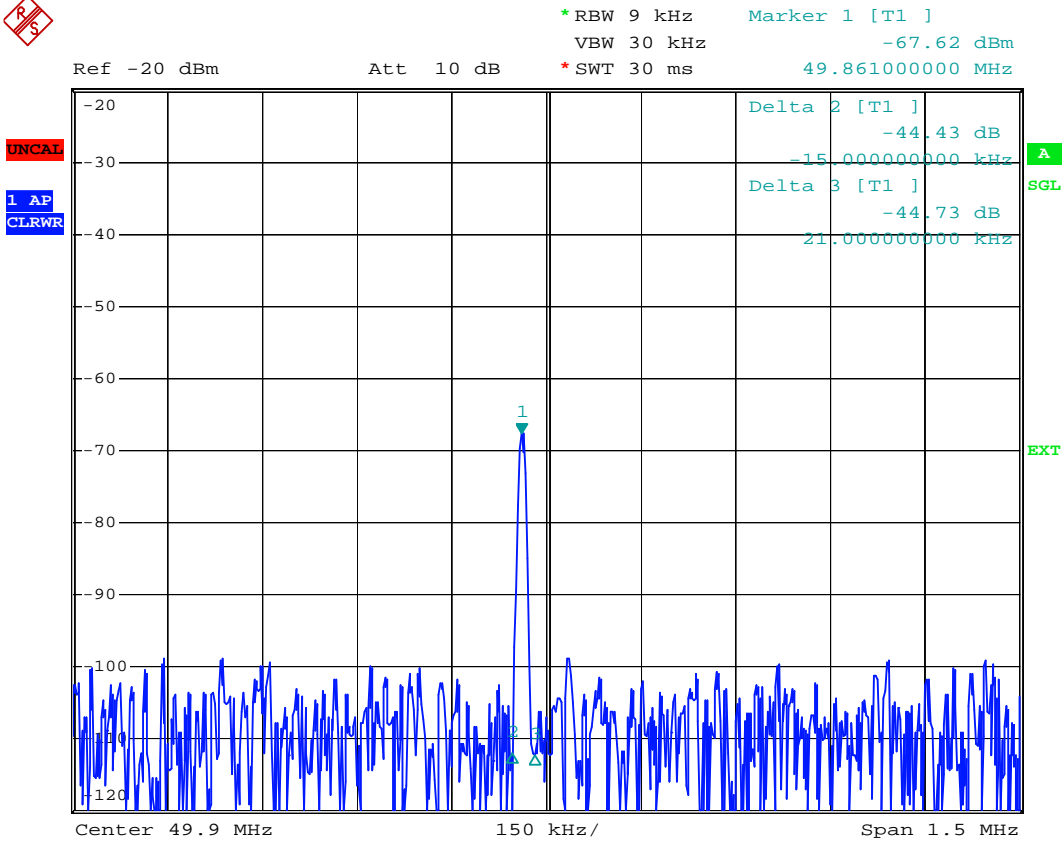
Band edge emissions plots are included on the following pages

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dB per division.

TEST RESULTS: The unit DOES meet the FCC requirements.



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