



World Standardization Certification & Testing CO., LTD
World Standardization Safety and EMC Testing Centre

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

Report Number: WSCT08030049E-RF

FCC ID: MKFARI53

For

MAIN UNIT

Model: MCM-9

Trade Name: N/A

Prepared for

Kenwo Industries Limited
Unit 1-2, 7/F, Block A, Hi-Tech Ind Ctr 5 Pak Tin Par Street
Tsuen Wan, Hong Kong

Prepared by

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Applicant: Kenwo Industries Limited
REPORT NUMBER: WSCT08030049E-RF FCC ID: MKFARI53



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1. TEST RESULT CERTIFICATION

Applicant: Kenwo Industries Limited
Unit 1-2, 7/F, Block A, Hi-Tech Ind Ctr 5 Pak Tin Par Street
Tsuen Wan, Hong Kong

Equipment Under Test: MAIN UNIT

Trade Name: N/A

Model: MCM-9

Date of Test: January 07~25, 2008

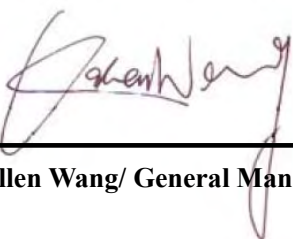
| APPLICABLE STANDARDS | |
|---|-------------------------|
| STANDARD | TEST RESULT |
| FCC 47 CFR Part 15 Subpart C Section 15.231 | No non-compliance noted |

We hereby certify that:

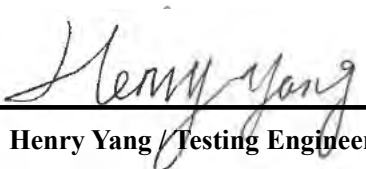
The above equipment was tested by World Standardization Certification & Testing Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4-2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209 and Part 15.231.

The test results of this report relate only to the tested sample identified in this report.

Approved by:


Kallen Wang/ General Manager

Tested By:


Henry Yang / Testing Engineer



2. EUT DESCRIPTION

| | |
|----------------------------|---------------------------------|
| Product | MAIN UNIT |
| Trade Name | N/A |
| Model Number | MCM-9 |
| Model Difference | N/A |
| Power Supply | DC 12.6V powered by the battery |
| Frequency Range | 433.92 MHz |
| Antenna Designation | PCB Antenna |
| Type of MAIN UNIT | DSR |
| Modulation | FSK |

Remark: This submittal(s) (test report) is intended for FCC ID: MKFARI53 filing to comply with Section 15.207, 15.209 and 15.231 of the FCC Part 15, Subpart C Rules.



3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 (2003) and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.231.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 - 335.4 | | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT is manual transmitter which has been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.



4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at 1-2/F, Dachong Science&Technology Building, No.28 of Tonggu Road, Nanshan District, ShenZhen.PRC.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by FCC. Oct 06.2007. The certificate registration number is 276008 to perform Electromagnetic Interference tests according to FCC PART 15 and CISPR 22 requirements.



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

| Device Type | Brand | Model | FCC ID | Series No. | Data Cable | Power Cord |
|-------------|---------|-------|--------|------------|------------|---------------|
| Call Help | OMIKRON | 400RP | N/A | N/A | 0.5m | DC Cable 0.5m |

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

7. FCC PART 15.231 REQUIREMENTS

7.1 20 DB BANDWIDTH

LIMIT

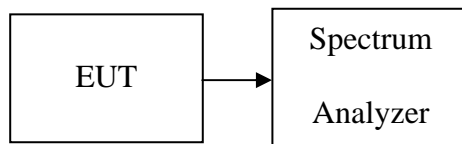
The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

MEASUREMENT EQUIPMENT USED

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration due |
|--------------------------|---------------------|--------------|----------------------|------------------------|
| EMI Test Receiver | R&S | ESCI | 100005 | 03/15/2009 |

***Remark:** Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



TEST PROCEDURE

The MAIN UNIT output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the MAIN UNIT frequency. The RBW is set to 10 kHz and VBW is set 30kHz.

TEST RESULTS

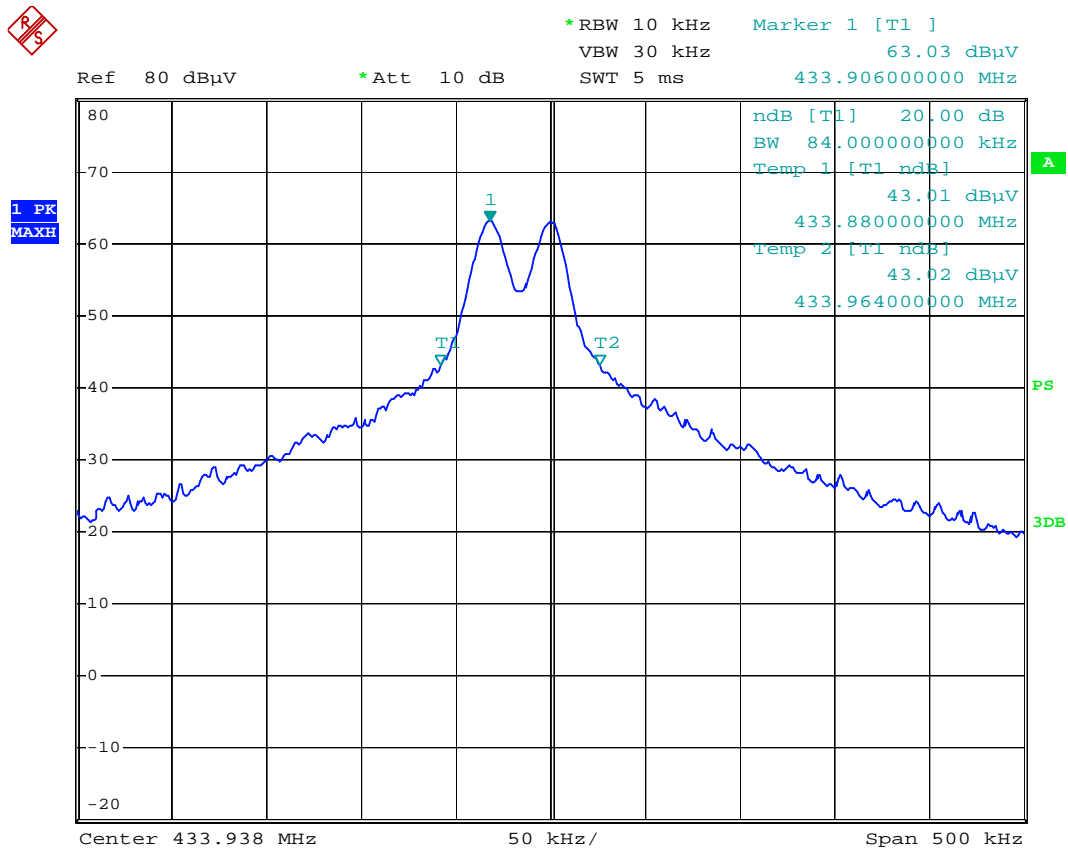
No non-compliance noted.

Test Data

| Frequency (MHz) | 20 dB Bandwidth (kHz) | Limit (kHz) | Result |
|------------------------|------------------------------|--------------------|---------------|
| 433.89 | 84.00 | 1109.8000 | PASS |



Test Plot



20dB Bandwidth

Date: 19.MAR.2008 10:55:07

7.2 LIMIT OF TRANSMISSION TIME

LIMIT

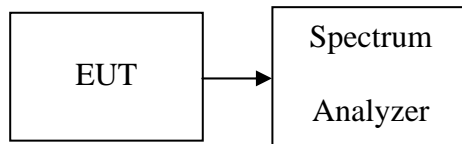
According to 15.231 (a)(1), a manually operated MAIN UNIT shall employ a switch that will automatically deactivate the MAIN UNIT within not more than 5 seconds of being released.

MEASUREMENT EQUIPMENT USED

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration due |
|-------------------|--------------|-------|---------------|-----------------|
| EMI Test Receiver | R&S | ESCI | 100005 | 03/15/2009 |

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

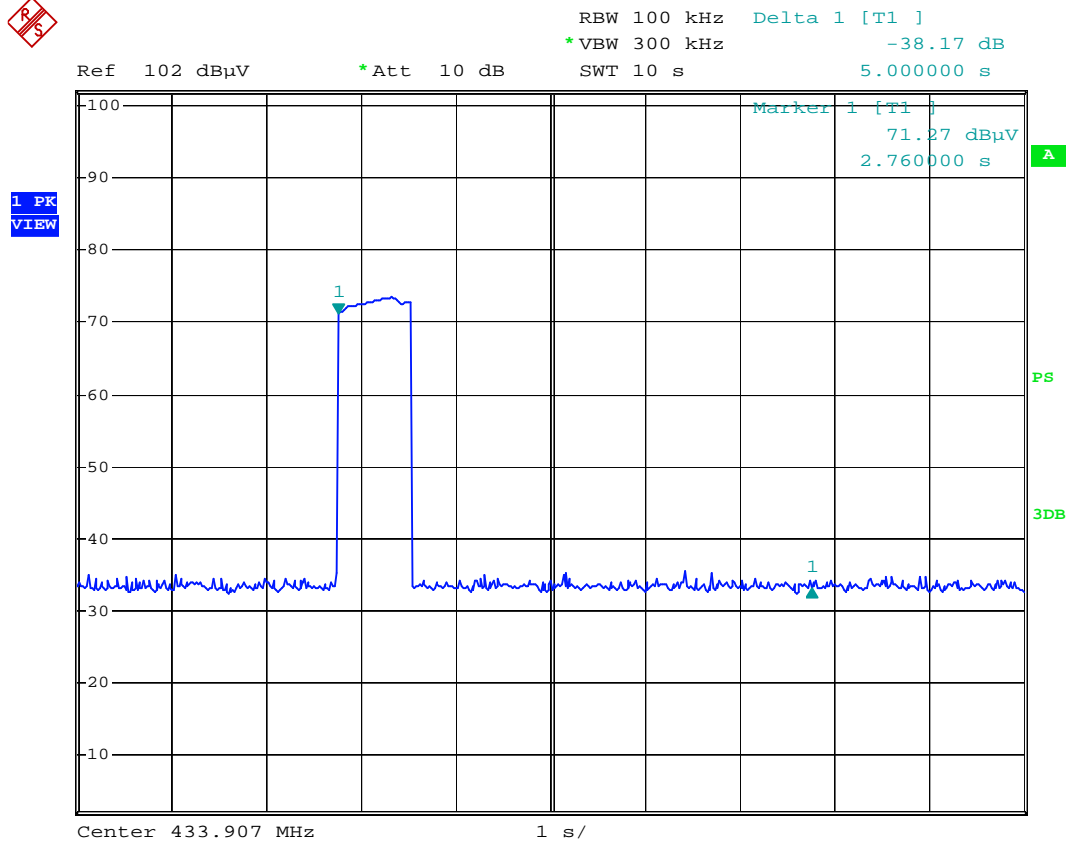
The MAIN UNIT output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the MAIN UNIT frequency. The RBW set to 100kHz and VBW are set to 300kHz.

TEST RESULTS

No non-compliance noted



Test Plot



Deactive time

Date: 19.MAR.2008 11:07:29

7.3 DUTY CYCLE

LIMIT

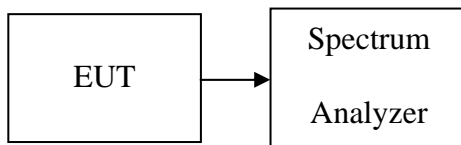
Nil (No dedicated limit specified in the Rules)

MEASUREMENT EQUIPMENT USED

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|-------|---------------|-----------------|
| EMI Test Receiver | R&S | ESCI | 100005 | 03/15/2009 |

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 0Hz, Adjust Sweep = 30s
5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data

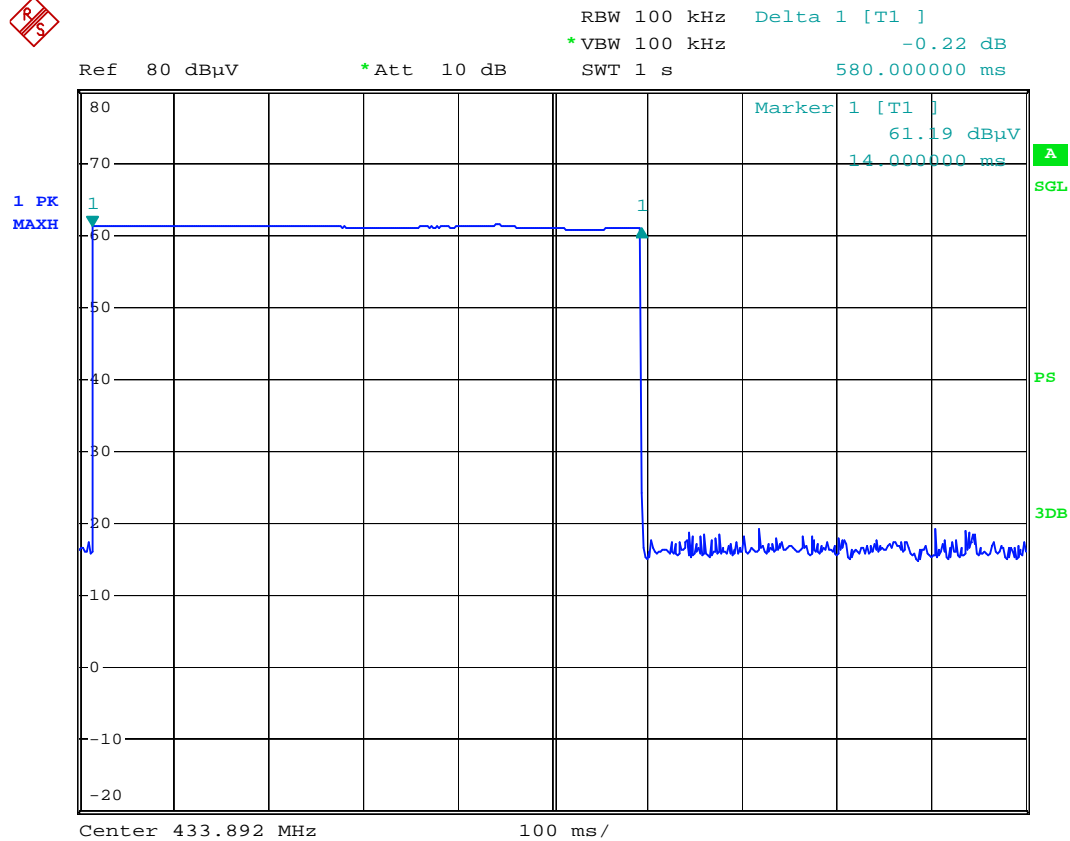
Duty cycle =100%

Duty cycle Factor=0

TEST PLOT

Applicant: Kenwo Industries Limited

REPORT NUMBER: WSCT08030049E-RF FCC ID: MKFARI53



Duty Cycle

Date: 24.MAR.2008 09:36:23

7.4 RADIATED EMISSIONS

LIMIT

- According to §15.231(b), In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following: Fundamental Field Strength of Frequency Fundamental Spurious Emissions (MHz) (microvolts/meter) (microvolts/meter)

| Fundamental Frequency (MHz) | Field Strength of Fundamental (microvolts/meter) | Field Strength of Spurious Emissions (microvolts/meter) |
|-----------------------------|--|---|
| 40.66 – 40.70 | 2,250 | 225 |
| 70 – 130 | 1,250 | 125 |
| 130 – 174 | 1,250 to 3,750 ** | 125 to 375 ** |
| 174 – 260 | 3,750 | 375 |
| 260 – 470 | 3,750 to 12,500 ** | 375 to 1,250 ** |
| Above 470 | 12,500 | 1,250 |

** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

- Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (mV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 30-88 | 100* | 3 |
| 88-216 | 150* | 3 |
| 216-960 | 200* | 3 |
| Above 960 | 500 | 3 |

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

- In the above emission table, the tighter limit applies at the band edges.

| Frequency (Hz) | Field Strength ($\mu\text{V/m}$ at 3-meter) | Field Strength (dB $\mu\text{V/m}$ at 3-meter) |
|----------------|--|--|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

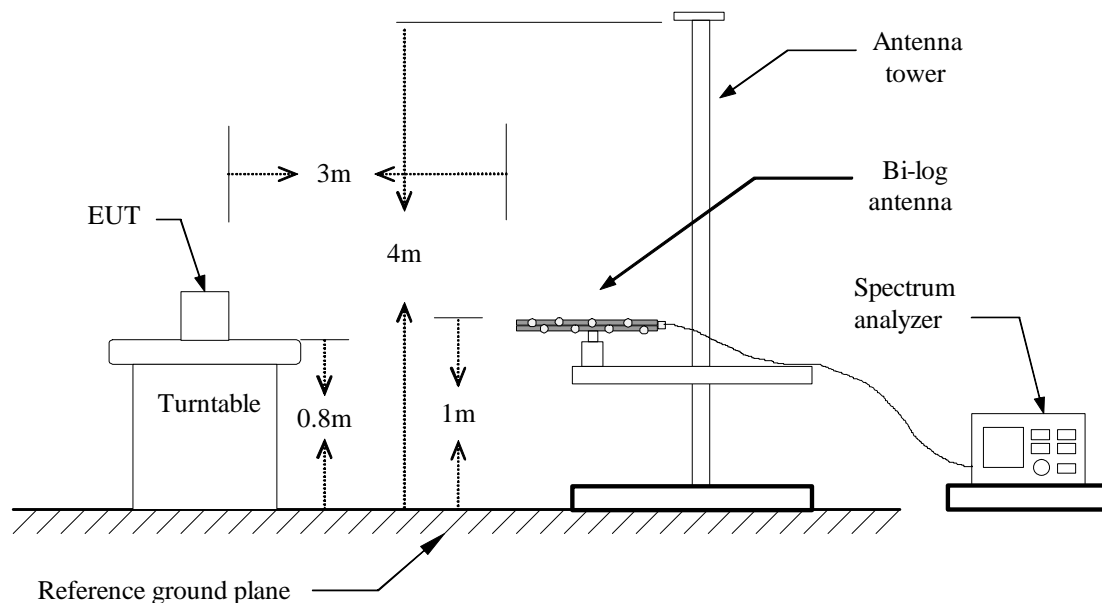
MEASUREMENT EQUIPMENT USED

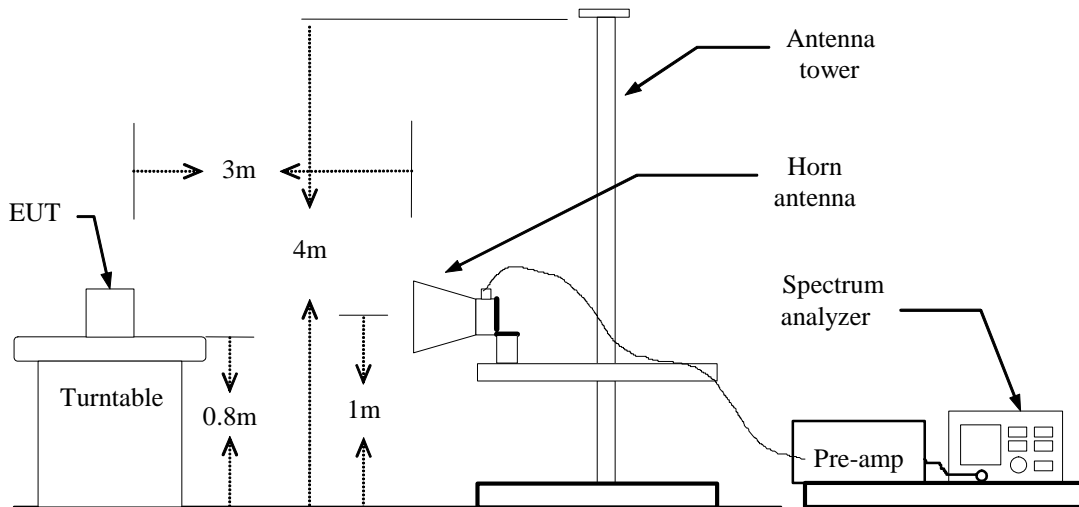
| 966 RF CHAMBER | | | | |
|-----------------------|----------------------------|------------|---------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| PSA Spectrum Analyzer | Agilent | E4446A | US44300398 | 03/15/2009 |
| EMI Test Receiver | R&S | ESCI | 100005 | 03/15/2009 |
| Pre Amplifier | HP | HP8447E | 2945A02715 | 03/15/2009 |
| Antenna | Sunol Sciences Corporation | JB3 | A021907 | 03/15/2009 |
| Turn Table | CCS | 2081-1.21 | N/A | N.C.R |
| Antenna Tower | CT | N/A | N/A | N.C.R |
| Controller | CCS | N/A | N/A | N.C.R |
| RF Comm. Test set | HP | 8920B | US36142091 | N.C.R |
| Site NSA | C&C | N/A | N/A | 03/15/2009 |
| Horn Antenna | TRC | N/A | N/A | 03/15/2009 |
| Loop Antenna | ARA | PLA-1030/B | 1028 | 03/15/2009 |

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration

Below 1 GHz



Above 1 GHz**TEST PROCEDURE**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.



TEST RESULTS

Operation Mode: TX

Test Date: March 19, 2008

Fundamental:

| Freq. (MHz) | Ant. Pol (H/V) | Reading Value (dBuV) | Correction Factor (dB/m) | Corrected Value | Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|----------------|----------------------|--------------------------|-----------------|----------------|-------------|---------|
| 433.92 | V | 69.92 | -8.31 | 61.61 | 100.8 | 39.19 | Peak |
| 433.92 | V | 69.19 | -8.31 | 60.88 | 80.8 | 19.92 | Average |
| 433.92 | H | 84.63 | -8.31 | 76.32 | 100.8 | 24.48 | Peak |
| 433.92 | H | 83.55 | -8.31 | 75.24 | 80.8 | 5.56 | Average |

Spurious emission 30MHz to 1GHz

| Freq. (MHz) | Ant. Pol. H/V | Detector Mode (PK/QP) | Reading value (dBuV) | Factor (dB) | Corrected value (dBuV/m) | Limit 3m (dBuV/m) | Margin (dB) |
|-------------|---------------|-----------------------|----------------------|-------------|--------------------------|-------------------|-------------|
| 123.58 | V | Peak | 47.63 | -15.43 | 32.20 | 43.50 | 11.30 |
| 867.84 | V | Peak | 48.25 | -3.64 | 44.61 | 60.80 | 16.19 |
| N/A | | | | | | | |
| 157.80 | H | Peak | 39.98 | -15.19 | 24.79 | 43.50 | 18.71 |
| 867.84 | H | Peak | 48.99 | -3.64 | 45.35 | 60.80 | 15.45 |
| N/A | | | | | | | |
| | | | | | | | |



Above 1 GHz

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|----------------|-----------------|---------------------------|-------------------------|-------------------------|------------------|----------------|---------------------------|-------------------------|----------------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1032.05 | V | 52.65 | --- | -10.50 | 42.15 | --- | 74.00 | 54.00 | 11.85 | Peak |
| 1726.15 | V | 51.57 | --- | -8.49 | 43.08 | --- | 74.00 | 54.00 | 10.92 | Peak |
| 2170.00 | V | 53.18 | --- | -6.79 | 46.39 | --- | 74.00 | 54.00 | 7.61 | Peak |
| 1303.33 | H | 52.24 | --- | -10.50 | 41.74 | --- | 74.00 | 54.00 | 12.26 | Peak |
| 1726.15 | H | 51.97 | --- | -8.49 | 43.48 | --- | 74.00 | 54.00 | 10.52 | Peak |
| 2170.00 | H | 53.35 | --- | -6.79 | 46.56 | --- | 74.00 | 54.00 | 7.44 | Peak |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Operation Mode: RX

Test Date: March 19, 2008

Spurious emission

| Freq. (MHz) | Ant. Pol. H/V | Detector Mode (PK/QP) | Reading value (dBuV) | Correction Factor (dB) | Corrected value (dBuV/m) | Limit 3m (dBuV/m) | Margin (dB) |
|----------------|------------------|-----------------------------|----------------------------|------------------------------|--------------------------------|----------------------|----------------|
| 123.58 | V | Peak | 47.63 | -15.43 | 32.20 | 43.50 | 11.30 |
| 867.84 | V | Peak | 48.25 | -3.64 | 44.61 | 60.80 | 16.19 |
| 1891.25 | V | Peak | 46.98 | -6.59 | 40.39 | 54.00 | 13.61 |
| 157.80 | H | Peak | 39.98 | -15.19 | 24.79 | 43.50 | 18.71 |
| 867.84 | H | Peak | 48.99 | -3.64 | 45.35 | 60.80 | 15.45 |
| 1798.35 | H | Peak | 49.68 | -7.14 | 42.58 | 54.00 | 11.42 |
| | | | | | | | |



Operation Mode: RFID transmitting

Test Date: March 19, 2008

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/AV) | Reading value (dBuV) | Correction Factor (dB) | Corrected value (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|----------------|-----------------|-----------------------------|----------------------------|------------------------------|--------------------------------|-------------------|----------------|
| 0.125 | V | AV | 42.00 | -12.00 | 30.00 | 45.66 | 15.66 |
| 69.96 | V | Peak | 43.56 | -12.36 | 31.20 | 40.00 | 8.80 |
| 119.36 | V | Peak | 47.39 | -15.23 | 32.16 | 43.50 | 11.34 |
| 571.32 | V | Peak | 44.95 | -8.36 | 36.59 | 46.00 | 9.41 |
| 0.125 | H | AV | 43.00 | -12.00 | 31.00 | 45.66 | 15.66 |
| 111.82 | H | Peak | 49.15 | -15.03 | 34.12 | 43.50 | 9.38 |
| 309.45 | H | Peak | 47.31 | -9.63 | 37.68 | 46.00 | 8.32 |
| 721.23 | H | Peak | 42.02 | -6.13 | 35.89 | 46.00 | 10.11 |

7.5 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

| Frequency Range (MHz) | Limits (dBμV) | |
|-----------------------|---------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

MEASUREMENT EQUIPMENT USED

| Conducted Emission Test Site G | | | | |
|--------------------------------|---------------|--------|---------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCS30 | 100343 | 03/15/2009 |
| LISN | AFJ | LS16 | 16010222119 | 03/15/2009 |
| LISN | Meestec | AN3016 | 04/10040 | 03/15/2009 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST CONFIGURATION

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

Not applicable (Since the EUT is powered by battery)

**APPENDIX 1
PHOTOGRAPHS OF TEST SETUP****Radiated Emission Set up Photos**