



## 47 CFR PART 15 SUBPART B

# TEST REPORT

of

### Plextalk DAISY Network Player

Trade Name: Plextalk  
Brand Name: Plextor  
Model No.: PTX1/PRO  
Report No.: SZ09030108E04  
FCC ID: WNU-PTX1PRO

*prepared for*

### Shinano Kenshi Co., Ltd.

6-15-26, Chuo, Ueda-shi Nagano-ken, 386-0012 JAPAN

*prepared by*  
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CTIA Authorized Test Lab.  
LAB CODE 20081223-00

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## 1. TEST CERTIFICATION

Equipment under Test: Plextalk DAISY Network Player

Brand Name: Plextor

Model Name: PTX1/PRO

FCC ID: WNU-PTX1PRO

Applicant: Shinano Kenshi Co., Ltd.

6-15-26, Chuo, Ueda-shi Nagano-ken, 386-0012 JAPAN

Manufacturer: GROUP SENSE Mobile-Tech Ltd

6th Floor, Building 9, No.5 Science Park West Avenue, Hong Kong  
Science Park, Shatin, New Territories, Hong Kong.

Test Standards: 47 CFR Part 15 Subpart B

EUT Received Date: March 20, 2009

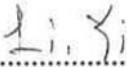
Test Date(s): March 20, 2009 –April 3, 2009

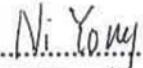
Test Result: PASS

### \* We Hereby Certify That:

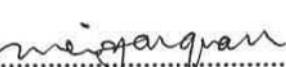
The equipment under test was tested by Shenzhen Electronic Product Quality Testing Center Morlab Laboratory. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by: .....  ..... Dated: 2009.04.23  
Li Yi

Reviewed by: .....  ..... Dated: 2009.04.23  
Ni Yong



Approved by: .....  ..... Dated: 2009.04.23  
Wei Yanquan

## 2. GENERAL INFORMATION

### 2.1 EUT Description

EUT Type .....: Plextalk DAISY Network Player

Serial No. ....: (n.a, marked #1 by test site)

IMEI .....: (n.a)

Hardware Version.....: PP

Software Version .....: PP

Power Supply .....: Battery

Brand Name: Plextor

Model No.: PTX1

Serial No.: (n.a. marked #1 by test site)

Capacitance: 1800mAh

Rated Voltage: 7.2V

Manufacturer: HUANYU Power Source Co. Ltd.

Manufacturer Address: Huanyu Avenue, Xinxiang, He Nan, China

Ancillary Equipment 1 : AC Adapter (Charger for Battery)

Brand Name: Plextor

Model Name: SQN36W12P-01

Serial No.: (n.a. marked #1 by test site)

Rated Input: ~ 100-240V, 0.4A-0.75A, 60Hz

Rated Output: == 12V, 3000mA

Manufacturer: Nagano Japan Radio Co. Ltd.

Manufacturer Address: Nagano Japan Radio Co., Ltd, 1163 Inasato-machi, Nagano-city, 381-2288, Japan.

Wire Length: 275cm

*Note 1:* The EUT is DAISY Book Playback and Voice Recording Machine include and Support BT 2.4G Module and Wi-Fi Module, with 802.11b/g interface

*Note 2:* For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

## 2.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

| No. | Identity                            | Document Title          |
|-----|-------------------------------------|-------------------------|
| 1   | 47 CFR Part 15<br>(10-1-05 Edition) | Radio Frequency Devices |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section | Description        | Result | Test date  |
|-----|---------|--------------------|--------|------------|
| 1   | 15.107  | Conducted Emission | PASS   | 2009-03-23 |
| 2   | 15.109  | Radiated Emission  | PASS   | 2009-03-27 |

NOTE:

The tests were performed according to the method of measurements prescribed in ANSI C63.4 2003.

## 2.3 Facilities and Accreditations

### 2.3.1 Facilities

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

All measurement facilities used to collect the measurement data are located at Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen 518055 CHINA. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

### 2.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

|                             |         |
|-----------------------------|---------|
| Temperature (°C):           | 20 - 25 |
| Relative Humidity (%):      | 40 - 60 |
| Atmospheric Pressure (kPa): | 96      |

### 2.3.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

|                                    |        |
|------------------------------------|--------|
| Uncertainty of Conducted Emission: | ±1.8dB |
| Uncertainty of Radiated Emission:  | ±3.1dB |

### 3. TEST CONDITIONS SETTING

#### 3.1 Test Mode

During the measurement, the test modes of the EUT are showed as below:

(1) The first test mode (SD)

The EUT configuration of the emission tests is EUT + Battery + Charger + + SD Card.

During the test, the SD Card was inserted into the EUT. And the EUT was playing SD

(2) The second test mode (USB)

The EUT configuration of the emission tests is EUT + Battery + Charger + USB.

During the test, the USB was connected with EUT via USB cable. And the the EUT was playing USB music.

(3) The third test mode (CD)

The EUT configuration of the emission tests is EUT + Battery + Charger + CD.

During the test, the CD was played with a CD-ROM in the EUT. And the EUT was playing CD.

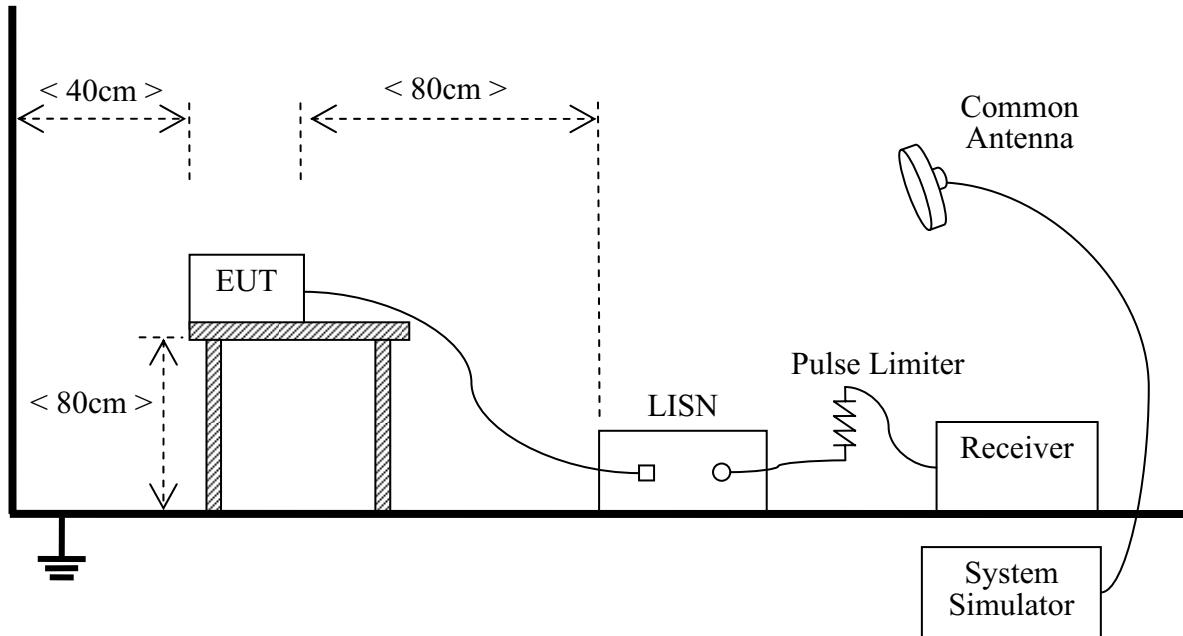
NOTE 1: During the all test of above test modes, the BT function and WI-FI function was active. A communication was established between the EUT and the WI-FI AP; and a communication was established between the EUT and the BT SS. The communication will maintained until test end.

NOTE 2: All test modes are performed, only the worst cases are recorded in this report.

## 3.2 Test Setup and Equipments List

### 3.2.1 Conducted Emission

#### A. Test Setup:



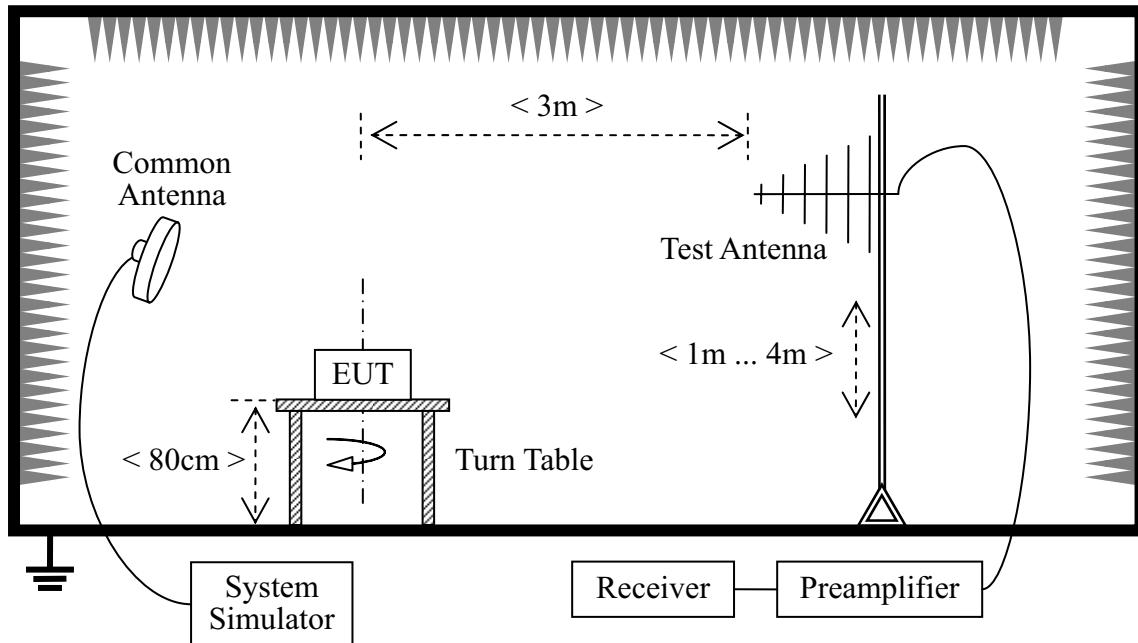
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides  $50\Omega/50\mu\text{H}$  of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

#### B. Equipments List:

| Description          | Manufacturer | Model       | Serial No. | Cal. Date | Cal. Due |
|----------------------|--------------|-------------|------------|-----------|----------|
| Receiver             | Agilent      | E7405A      | US44210471 | 2008.07   | 1year    |
| LISN                 | Schwarzbeck  | NSLK 8127   | 812744     | 2008.08   | 1year    |
| Pulse Limiter (20dB) | Schwarzbeck  | VTSD 9561-D | 9391       | (n.a.)    | (n.a.)   |
| System Simulator     | Agilent      | E5515C      | GB43130131 | 2008.06   | 1year    |

### 3.2.2 Radiated Emission

#### C. Test Setup:



The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower. The Common Antenna is used for the call between the EUT and the System Simulator (SS).

#### D. Equipments List:

| Description           | Manufacturer | Model      | Serial No. | Cal. Date | Cal. Due |
|-----------------------|--------------|------------|------------|-----------|----------|
| Receiver              | Agilent      | E7405A     | US44210471 | 2008.07   | 1year    |
| Semi-Anechoic Chamber | Albatross    | 9m*6m*6m   | (n.a.)     | 2008.08   | 2year    |
| Test Antenna - Bi-Log | Schwarzbeck  | VULB 9163  | 9163-274   | 2008.07   | 1year    |
| Test Antenna - Horn   | Schwarzbeck  | BBHA 9120C | 9120C-384  | 2008.07   | 1year    |
| System Simulator      | Agilent      | E5515C     | GB43130131 | 2008.06   | 1year    |

## 4. 47 CFR PART 15B REQUIREMENTS

### 4.1 Conducted Emission

#### 4.1.1 Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

| Frequency range (MHz) | Conducted Limit (dB $\mu$ V) |          |
|-----------------------|------------------------------|----------|
|                       | Quasi-peak                   | Average  |
| 0.15 - 0.50           | 66 to 56                     | 56 to 46 |
| 0.50 - 5              | 56                           | 46       |
| 5 - 30                | 60                           | 50       |

NOTE:

- a) The limit subjects to the Class B digital device.
- b) The lower limit shall apply at the band edges.
- c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

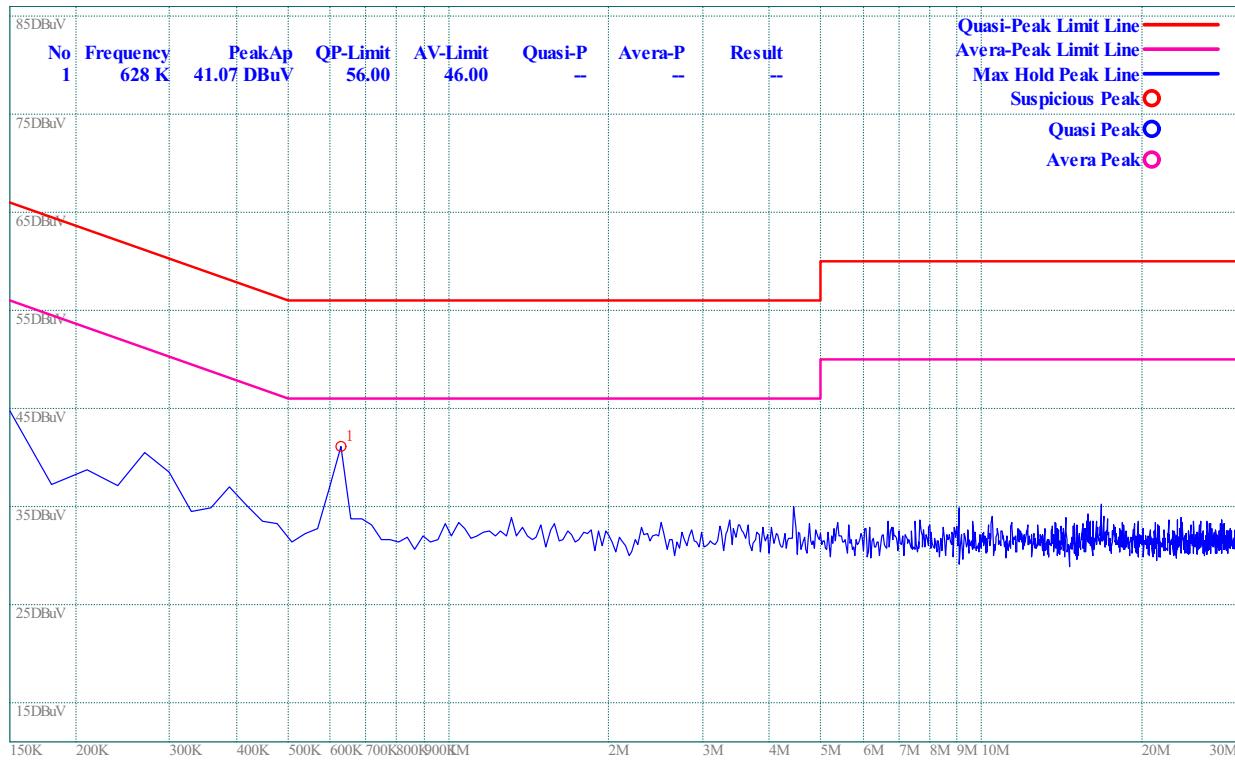
#### 4.1.2 Test Description

See section 3.2.1 of this report.

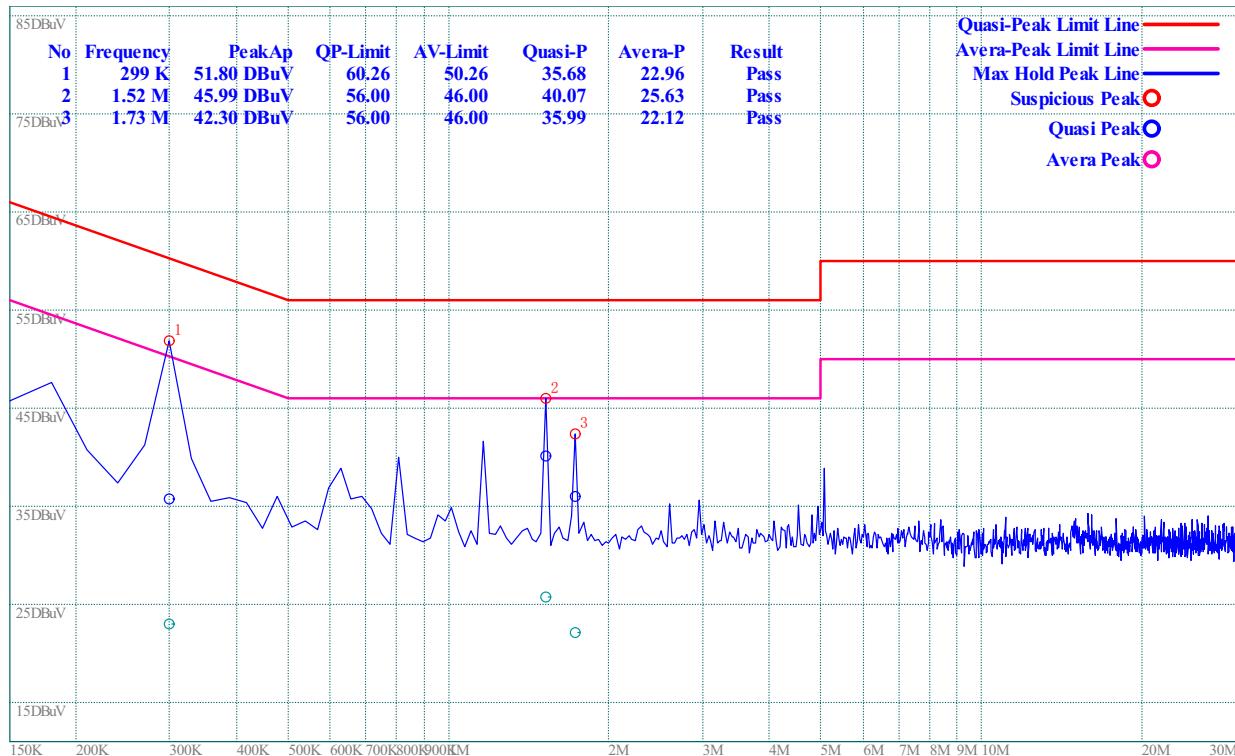
#### 4.1.3 Test Result

The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

**Test Plot:**



(Plot A: L Phase)



(Plot B: N Phase)

Test Result Pass.

## 4.2 Radiated Emission

### 4.2.1 Requirement

According to FCC section 15.109, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency range (MHz) | Field Strength |              |
|-----------------------|----------------|--------------|
|                       | $\mu$ V/m      | dB $\mu$ V/m |
| 30 - 88               | 100            | 40           |
| 88 - 216              | 150            | 43.5         |
| 216 - 960             | 200            | 46           |
| Above 960             | 500            | 54           |

NOTE:

- Field Strength (dB $\mu$ V/m) =  $20 \log_{10} [\text{Field Strength } (\mu\text{V/m})]$ .
- In the emission tables above, the tighter limit applies at the band edges.

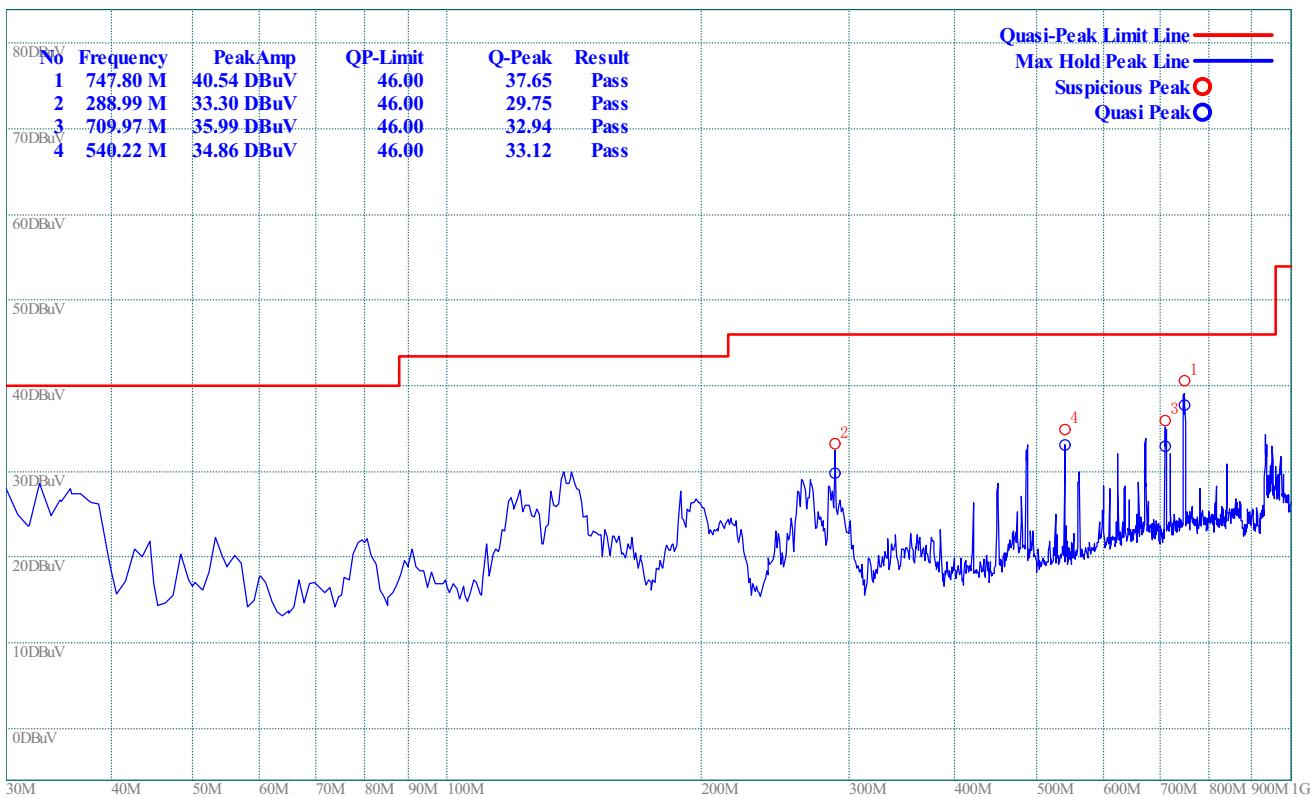
### 4.2.2 Test Description

See section 3.2.2 of this report.

### 4.2.3 Test Result

The maximum radiated emission is searched using PK and QP detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

#### A. Test Plot:



(Plot A: Test Antenna Vertical)



(Plot B: Test Antenna Horizontal)



Report No.: SZ09030108E04

\*\* END OF REPORT \*\*