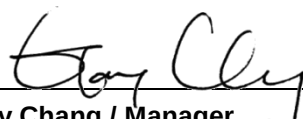


# FCC Partial Test Report

**FCC ID** : VQK-M02  
**Equipment** : Mobile Phone  
**Model No.** : M02  
**Brand Name** : FUJITSU  
**Applicant** : FUJITSU LIMITED  
**Address** : 1-1, Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki 211-8588, Japan  
**Standard** : 47 CFR FCC Part 22 Subpart H  
**Received Date** : Nov. 24, 2015  
**Tested Date** : Nov. 26, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

  
\_\_\_\_\_  
Gary Chang / Manager



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## Release Record

| Report No.     | Version | Description   | Issued Date   |
|----------------|---------|---------------|---------------|
| FG560301-02P22 | Rev. 01 | Initial issue | Dec. 17, 2015 |

## Summary of Test Results

| FCC Rules             | Test Items               | Measured                                  | Result |
|-----------------------|--------------------------|-------------------------------------------|--------|
| 2.1046 / 22.913(a)(2) | Effective Radiated Power | Power[dBm]:<br>GSM: 25.97<br>WCDMA: 16.81 | Pass   |
| 2.1053 / 22.917(a)    | Radiated Emissions       | Meet the requirement of limit             | Pass   |

# 1 General Description

## 1.1 Information

This report is issued as a supplementary report to original ICC report no. FG560301P22. PCB/trace layouts, product form factor and antenna are identical except following items:

✧ Wi-Fi:

5GHz function is removed by software setting and hardware modification. Hardware modification-Remove components of 5GHz transmission path to cancel 5GHz function that will not affect 2.4GHz function since 2.4GHz and 5GHz transmission path is separately.

✧ LTE: B26 814 ~849 MHz: Activated by software.

✧ Without Fingerprint: Remove components.

✧ Change AC adapter.

✧ Same cradle as original report, change model name from F-51 to FAR-CR105.

In this report, radiated emission and conducted power had been re-tested and only its data was presented in the following sections.

### 1.1.1 Product Details

|                     |                 |
|---------------------|-----------------|
| <b>Product Name</b> | Mobile Phone    |
| <b>Brand Name</b>   | FUJITSU         |
| <b>Model Name</b>   | M02             |
| <b>IMEI Code</b>    | 353546071500032 |
| <b>H/W Version</b>  | v3.0.0          |
| <b>S/W Version</b>  | R021.3          |

### 1.1.2 Specification of the Equipment under Test (EUT)

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| <b>Operating Band (MHz)</b> | GSM: 824.2-848.8<br>WCDMA: 826.4-846.6                   |
| <b>Modulation</b>           | GSM / GPRS: GMSK<br>WCDMA / HSDPA / HSUPA: QPSK (uplink) |
| <b>Multislot Class</b>      | 33 for GPRS<br>11 for DTM                                |
| <b>3GPP Release Version</b> | R5 / R6                                                  |
| <b>UE Category</b>          | 10 / 6                                                   |

### 1.1.3 Antenna Details

| Type                   | Gain (dBi) | Connector | Remark |
|------------------------|------------|-----------|--------|
| $\lambda / 4$ Monopole | -5.71      | No        | ---    |

### 1.1.4 EUT Operational Condition

|                |                                               |
|----------------|-----------------------------------------------|
| Supply Voltage | 5.0Vdc from AC adapter<br>3.8Vdc from Battery |
|----------------|-----------------------------------------------|

### 1.1.5 Accessories

| No. | Equipment                | Description                                                                                                                                                                             |
|-----|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Adapter                  | Brand Name: Fujitsu Limited<br>Model Name: FMV-AC346<br>Input rating: 100-240Vac, 50/60Hz, 0.3A<br>Output rating: 5.0Vdc, 2A<br>1.1m USB shielded cable without core (for charging use) |
| 2   | Cradle                   | Brand Name: Fujitsu Limited<br>Model Name: FAR-CR105<br>Input rating: 5Vdc, 1.5A<br>Output rating: 5.0Vdc, 1.5A                                                                         |
| 3   | Battery<br>(Unremovable) | Brand Name: Fujitsu Limited<br>Model Name: CA54310-0064<br>Power Rating: 3.8Vdc, 2330mAh, 8.9Wh                                                                                         |

### 1.1.6 Operating Channel List

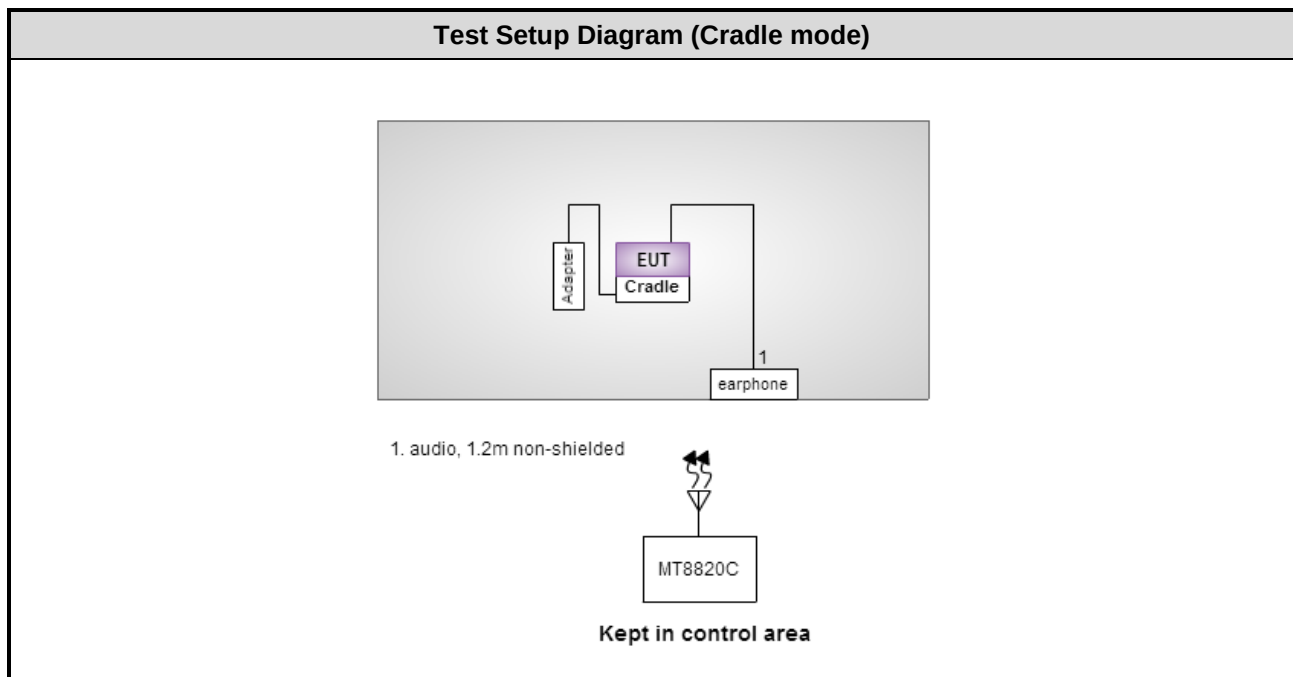
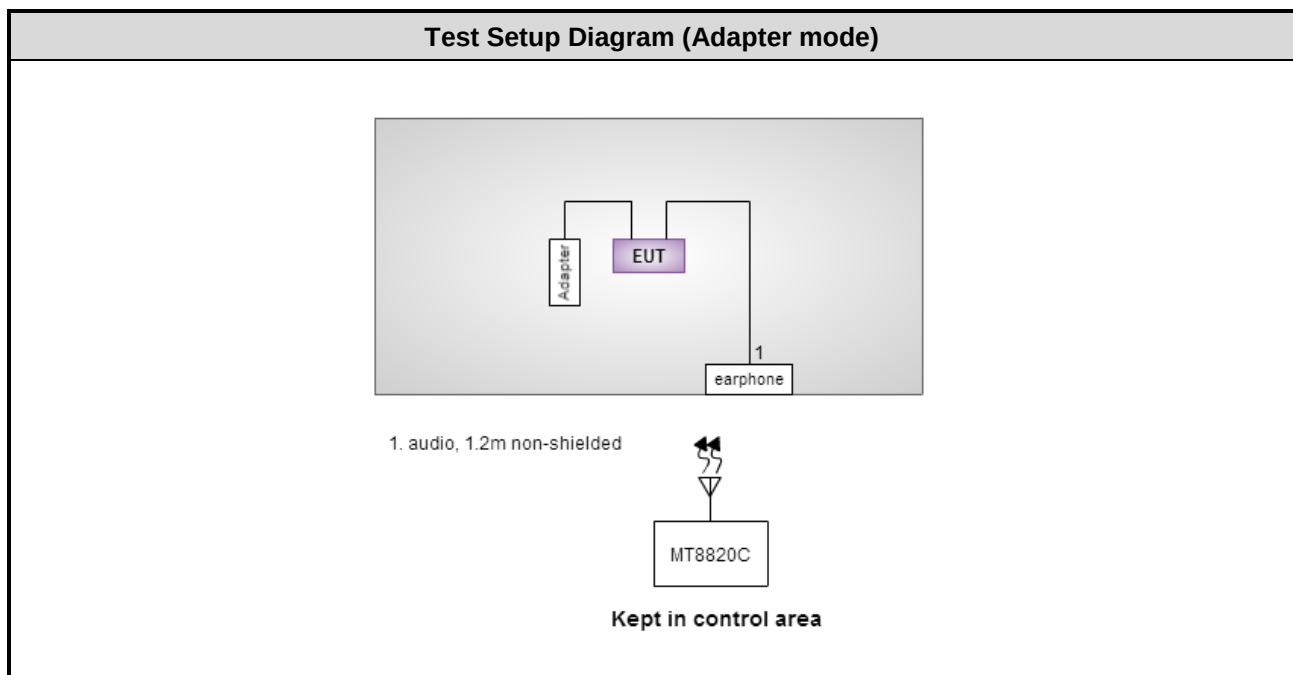
| GSM & GPRS |         |                 |
|------------|---------|-----------------|
|            | Channel | Frequency (MHz) |
| Low        | 128     | 824.2           |
| Middle     | 189     | 836.4           |
| High       | 251     | 848.8           |

| WCDMA  |         |                 |
|--------|---------|-----------------|
|        | Channel | Frequency (MHz) |
| Low    | 4132    | 826.4           |
| Middle | 4182    | 836.4           |
| High   | 4233    | 846.6           |

## 1.2 Local Support Equipment List

| Support Equipment List |           |       |           |     |                           |
|------------------------|-----------|-------|-----------|-----|---------------------------|
| No.                    | Equipment | Brand | Model     | S/N | Signal cable / Length (m) |
| 1                      | Earphone  | APPLE | MD827FE/A | 6   | 1.2m non-shielded.        |

## 1.3 Test Setup Chart



## 1.4 The Equipment List

| Test Item                                                           | Radiated Emission           |                   |                     |                  |                   |
|---------------------------------------------------------------------|-----------------------------|-------------------|---------------------|------------------|-------------------|
| Test Site                                                           | 966 chamber 3 / (03CH03-WS) |                   |                     |                  |                   |
| Instrument                                                          | Manufacturer                | Model No.         | Serial No.          | Calibration Date | Calibration Until |
| Spectrum Analyzer                                                   | Agilent                     | N9010A            | MY53400091          | Sep. 14, 2015    | Sep. 13, 2016     |
| Receiver                                                            | Agilent                     | N9038A            | MY53290044          | Oct. 14, 2015    | Oct. 13, 2016     |
| Bilog Antenna                                                       | SCHWARZBECK                 | VULB9168          | VULB9168-563        | Dec. 30, 2014    | Dec. 29, 2015     |
| Horn Antenna<br>1G-18G                                              | SCHWARZBECK                 | BBHA 9120 D       | BBHA 9120 D 1206    | Feb. 03, 2015    | Feb. 02, 2016     |
| Horn Antenna<br>18G-40G                                             | SCHWARZBECK                 | BBHA 9170         | BBHA 9170517        | Nov. 04, 2015    | Nov. 03, 2016     |
| Loop Antenna                                                        | R&S                         | HFH2-Z2           | 11900               | Nov. 16, 2015    | Nov. 15, 2016     |
| Preamplifier                                                        | EMC                         | EMC02325          | 980187              | Sep. 21, 2015    | Sep. 20, 2016     |
| Preamplifier                                                        | Agilent                     | 83017A            | MY53270014          | Sep. 07, 2015    | Sep. 06, 2016     |
| Preamplifier                                                        | EMC                         | EMC184045B        | 980192              | Sep. 01, 2015    | Aug. 31, 2016     |
| RF cable-3M                                                         | HUBER+SUHNER                | SUCOFLEX104       | MY22620/4           | Feb. 09, 2015    | Feb. 08, 2016     |
| RF cable-8M                                                         | HUBER+SUHNER                | SUCOFLEX104       | MY22601/4           | Feb. 09, 2015    | Feb. 08, 2016     |
| RF cable-1M                                                         | HUBER+SUHNER                | SUCOFLEX104       | MY22624/4           | Feb. 09, 2015    | Feb. 08, 2016     |
| RF cable-8M                                                         | HUBER+SUHNER                | SUCOFLEX104       | MY22600/4           | Feb. 09, 2015    | Feb. 08, 2016     |
| LF cable-0.8M                                                       | EMC                         | EMC8D-NM-NM-800   | EMC8D-NM-NM-800-001 | Feb. 09, 2015    | Feb. 08, 2016     |
| LF cable-3M                                                         | EMC                         | EMC8D-NM-NM-3000  | 131103              | Feb. 09, 2015    | Feb. 08, 2016     |
| LF cable-13M                                                        | EMC                         | EMC8D-NM-NM-13000 | 131104              | Feb. 09, 2015    | Feb. 08, 2016     |
| Radio<br>Communication<br>Analyzer                                  | Anritsu                     | MT8820C           | 6201240341          | Mar. 19, 2015    | Mar. 18, 2016     |
| Measurement<br>Software                                             | AUDIX                       | e3                | 6.120210g           | NA               | NA                |
| Note: Calibration Interval of instruments listed above is one year. |                             |                   |                     |                  |                   |

| Test Item                                                           | RF Conducted |           |            |                  |                   |
|---------------------------------------------------------------------|--------------|-----------|------------|------------------|-------------------|
| Test Site                                                           | (TH01-WS)    |           |            |                  |                   |
| Instrument                                                          | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer                                                   | R&S          | FSV40     | 101063     | Feb. 03, 2015    | Feb. 02, 2016     |
| Power Meter                                                         | Anritsu      | ML2495A   | 1241002    | Sep. 21, 2015    | Sep. 20, 2016     |
| Power Sensor                                                        | Anritsu      | MA2411B   | 1207366    | Sep. 21, 2015    | Sep. 20, 2016     |
| AC POWER<br>SOURCE                                                  | APC          | AFC-500W  | F312060012 | Oct. 26, 2015    | Oct. 25, 2016     |
| Radio<br>Communication<br>Analyzer                                  | Anritsu      | MT8820C   | 6201240341 | Mar. 19, 2015    | Mar. 17, 2016     |
| Measurement<br>Software                                             | Sporton      | Sporton_1 | 1.3.30     | NA               | NA                |
| Note: Calibration Interval of instruments listed above is one year. |              |           |            |                  |                   |

## 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 22 Subpart H

ANSI C63.4-2003

ANSI / TIA / EIA-603-C -2010

FCC KDB 971168 D01 Power Meas License Digital Systems v02r02

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

## 1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ )).

| Measurement Uncertainty        |                |
|--------------------------------|----------------|
| Parameters                     | Uncertainty    |
| Conducted power                | $\pm 0.808$ dB |
| Radiated emission $\leq 1$ GHz | $\pm 3.99$ dB  |
| Radiated emission $> 1$ GHz    | $\pm 5.52$ dB  |

## 2 Test Configuration

### 2.1 Testing Condition and Location Information

| Test Item          | Test Site | Ambient Condition | Tested By     |
|--------------------|-----------|-------------------|---------------|
| RF conducted       | TH01-WS   | 23°C / 65%        | Felix Sung    |
| Radiated Emissions | 03CH03-WS | 22°C / 61%        | Anderson Hung |

➤ FCC site registration No.: 390588

➤ IC site registration No.: 10807C-1

### 2.2 The Worst Test Modes and Channel Details

The tests reported herein were performed according to the original worst case conditions in original report no. FG560301P22.

| Test item                                                                                                                                                                                                                                                                                                                                                                                                    | Mode         | Test Channel |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Effective Radiated Power                                                                                                                                                                                                                                                                                                                                                                                     | GSM<br>WCDMA | 128<br>4233  |
| Radiated Emissions ≤ 1GHz                                                                                                                                                                                                                                                                                                                                                                                    | GSM<br>WCDMA | 128<br>4233  |
| Radiated Emissions > 1GHz                                                                                                                                                                                                                                                                                                                                                                                    | GSM<br>WCDMA | 128<br>4233  |
| <b>NOTE:</b><br>1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The <b>Z-plane</b> results were found as the worst case and were shown in this report.<br>2. The EUT had been tested by following test configurations for spurious emission below 1GHz.<br>1) Configuration 1 : Adapter mode<br>2) Configuration 2 : Cradle mode |              |              |

## 3 Test Results

### 3.1 Effective Radiated Power

#### 3.1.1 Limit of Effective Radiated Power

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

#### 3.1.2 Test Procedures

For E.R.P measurement

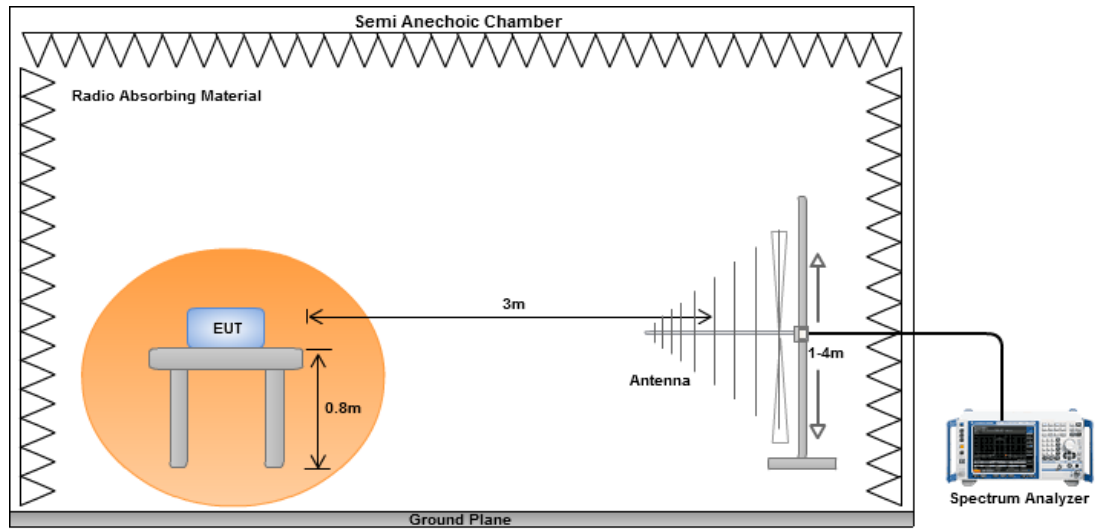
1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable. ERP can be calculated by below formula:  
$$E.R.P = E.I.R.P - 2.15dB$$

For Conducted power measurement

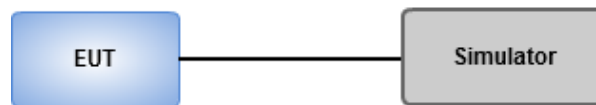
1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel.
2. Measure the output power of low / middle / high channel of the EUT

### 3.1.3 Test Setup

#### Effective Radiated Power Measurement



#### Conducted Power Measurement



### 3.1.4 Test Result of Conducted Output Power (dBm)

| Band                    |                        | GSM850 |       |       |
|-------------------------|------------------------|--------|-------|-------|
| Channel                 |                        | 128    | 189   | 251   |
| Frequency (MHz)         |                        | 824.2  | 836.4 | 848.8 |
| GSM                     |                        | 31.95  | 31.96 | 31.92 |
| GPRS 8 (GMSK, 1 slot)   |                        | 31.97  | 31.98 | 31.95 |
| GPRS 10 (GMSK, 2 slots) |                        | 29.41  | 29.28 | 29.23 |
| GPRS 11 (GMSK, 3 slots) |                        | 27.57  | 27.24 | 27.15 |
| GPRS 12 (GMSK, 4 slots) |                        | 26.06  | 25.97 | 25.94 |
| DTM5<br>(2Tx slots)     | GSM (GMSK,1 Tx slot)   | 29.17  | 29.03 | 28.95 |
|                         | GPRS (GMSK,1 Tx slot)  | 29.19  | 29.05 | 28.98 |
| DTM9<br>(2Tx slots)     | GSM (GMSK,1 Tx slot)   | 29.16  | 29.02 | 28.94 |
|                         | GPRS (GMSK,1 Tx slot)  | 29.19  | 29.05 | 28.97 |
| DTM11<br>(3Tx slots)    | GSM (GMSK,1 Tx slot)   | 27.28  | 26.96 | 26.87 |
|                         | GPRS (GMSK,2 Tx slots) | 27.31  | 27.00 | 26.90 |

| Band            |  | WCDMA V |       |       |
|-----------------|--|---------|-------|-------|
| Channel         |  | 4132    | 4182  | 4233  |
| Frequency (MHz) |  | 826.4   | 836.4 | 846.6 |
| AMR             |  | 23.98   | 23.93 | 23.92 |
| RMC 12.2K       |  | 24.00   | 23.95 | 23.95 |
| HSDPA Subtest-1 |  | 22.99   | 22.93 | 22.94 |
| HSDPA Subtest-2 |  | 22.97   | 22.92 | 22.89 |
| HSDPA Subtest-3 |  | 22.50   | 22.48 | 22.50 |
| HSDPA Subtest-4 |  | 22.47   | 22.45 | 22.48 |
| HSUPA Subtest-1 |  | 23.00   | 22.84 | 22.82 |
| HSUPA Subtest-2 |  | 21.62   | 21.58 | 21.56 |
| HSUPA Subtest-3 |  | 21.22   | 21.09 | 21.00 |
| HSUPA Subtest-4 |  | 21.90   | 21.86 | 21.84 |
| HSUPA Subtest-5 |  | 22.95   | 22.97 | 22.89 |

### 3.1.5 Test Result of Effective Radiated Power (dBm)

| Mode    | GSM             |              |             |             |                   |                       |                        |
|---------|-----------------|--------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Channel | Frequency (MHz) | ERP (dBm)    | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 128     | 824.2           | <b>25.97</b> | 38.45       | -12.48      | -3.08             | 25.07                 | 3.05                   |

| Mode    | WCDMA           |              |             |             |                   |                       |                        |
|---------|-----------------|--------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Channel | Frequency (MHz) | ERP (dBm)    | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 4233    | 846.6           | <b>16.81</b> | 38.45       | -21.64      | -12.14            | 16.01                 | 2.95                   |

NOTE: ERP = S.G power value + correction factor - 2.15.

## 3.2 Radiated Emissions

### 3.2.1 Limit of Radiated Emissions

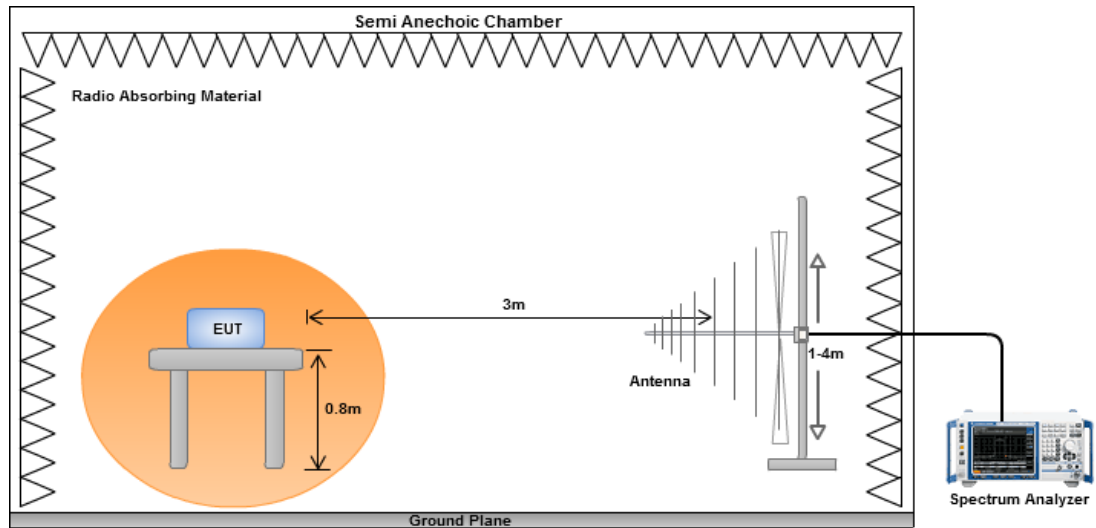
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB equal to -13dBm.

### 3.2.2 Test Procedures

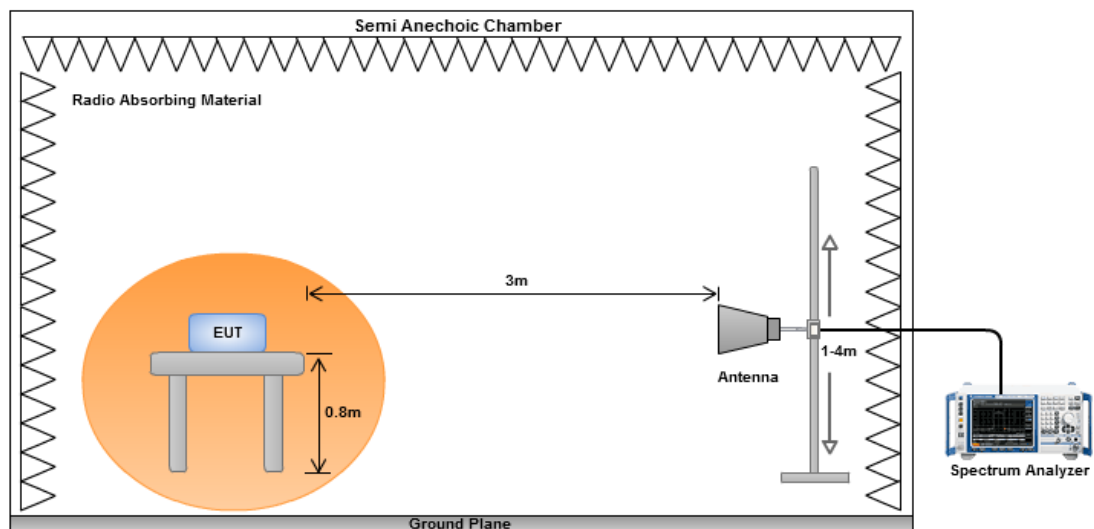
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5.  $E.I.R.P = \text{output power of step 4} + \text{gain of substitution antenna} - \text{cable loss of RF cable}$ . ERP can be calculated by below formula:  
 $E.R.P = E.I.R.P - 2.15\text{dB}$

### 3.2.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz



### 3.2.4 Test Result of Radiated Emissions below 1GHz\_Adapter mode

| Mode            | GSM, Channel: 128 |             |             |             |                   |                       |                        |
|-----------------|-------------------|-------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Frequency (MHz) | Antenna Polarity  | E.R.P (dBm) | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 40.67           | H                 | -61.55      | -13.00      | -48.55      | -61.20            | -47.20                | -12.20                 |
| 142.52          | H                 | -60.08      | -13.00      | -47.08      | -51.71            | -56.64                | -1.29                  |
| 187.14          | H                 | -57.04      | -13.00      | -44.04      | -46.57            | -57.82                | 2.93                   |
| 257.95          | H                 | -63.00      | -13.00      | -50.00      | -52.60            | -65.19                | 4.34                   |
| 328.76          | H                 | -66.58      | -13.00      | -53.58      | -59.32            | -68.76                | 4.33                   |
| 660.50          | H                 | -64.14      | -13.00      | -51.14      | -62.58            | -65.87                | 3.88                   |
| 62.98           | V                 | -56.97      | -13.00      | -43.97      | -47.14            | -47.06                | -7.76                  |
| 116.33          | V                 | -58.10      | -13.00      | -45.10      | -49.82            | -55.42                | -0.53                  |
| 144.46          | V                 | -59.56      | -13.00      | -46.56      | -54.59            | -56.17                | -1.24                  |
| 210.42          | V                 | -58.73      | -13.00      | -45.73      | -52.15            | -60.97                | 4.39                   |
| 271.53          | V                 | -62.65      | -13.00      | -49.65      | -57.25            | -64.80                | 4.30                   |
| 325.85          | V                 | -62.92      | -13.00      | -49.92      | -57.55            | -65.08                | 4.31                   |

NOTE: ERP = S.G power value + correction factor - 2.15.

| Mode            | WCDMA, Channel: 4233 |             |             |             |                   |                       |                        |
|-----------------|----------------------|-------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Frequency (MHz) | Antenna Polarity     | E.R.P (dBm) | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 38.73           | H                    | -61.59      | -13.00      | -48.59      | -61.71            | -46.96                | -12.48                 |
| 110.51          | H                    | -56.27      | -13.00      | -43.27      | -46.82            | -53.88                | -0.24                  |
| 114.39          | H                    | -56.50      | -13.00      | -43.50      | -46.98            | -53.91                | -0.44                  |
| 127.00          | H                    | -56.30      | -13.00      | -43.30      | -47.11            | -53.22                | -0.93                  |
| 217.21          | H                    | -60.26      | -13.00      | -47.26      | -48.97            | -62.49                | 4.38                   |
| 366.59          | H                    | -61.29      | -13.00      | -48.29      | -55.52            | -63.52                | 4.38                   |
| 45.52           | V                    | -58.34      | -13.00      | -45.34      | -49.56            | -44.68                | -11.51                 |
| 104.69          | V                    | -63.12      | -13.00      | -50.12      | -55.02            | -61.01                | 0.04                   |
| 142.52          | V                    | -58.21      | -13.00      | -45.21      | -53.38            | -54.77                | -1.29                  |
| 217.21          | V                    | -56.17      | -13.00      | -43.17      | -49.83            | -58.40                | 4.38                   |
| 259.89          | V                    | -64.33      | -13.00      | -51.33      | -59.04            | -66.52                | 4.34                   |
| 307.42          | V                    | -64.75      | -13.00      | -51.75      | -59.17            | -66.83                | 4.23                   |

NOTE: ERP = S.G power value + correction factor - 2.15.

### 3.2.5 Test Result of Radiated Emissions below 1GHz\_Cradle mode

| Mode            | GSM, Channel: 128 |             |             |             |                   |                       |                        |
|-----------------|-------------------|-------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Frequency (MHz) | Antenna Polarity  | E.R.P (dBm) | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 39.70           | H                 | -61.00      | -13.00      | -48.00      | -61.10            | -46.51                | -12.34                 |
| 141.55          | H                 | -54.49      | -13.00      | -41.49      | -46.11            | -51.03                | -1.31                  |
| 212.36          | H                 | -61.64      | -13.00      | -48.64      | -50.26            | -63.88                | 4.39                   |
| 340.40          | H                 | -65.68      | -13.00      | -52.68      | -59.08            | -67.91                | 4.38                   |
| 664.38          | H                 | -64.89      | -13.00      | -51.89      | -63.46            | -66.61                | 3.87                   |
| 748.77          | H                 | -60.96      | -13.00      | -47.96      | -61.77            | -62.21                | 3.40                   |
| 58.13           | V                 | -55.29      | -13.00      | -42.29      | -45.61            | -43.97                | -9.17                  |
| 123.12          | V                 | -59.11      | -13.00      | -46.11      | -51.34            | -56.15                | -0.81                  |
| 148.34          | V                 | -59.61      | -13.00      | -46.61      | -54.34            | -56.31                | -1.15                  |
| 210.42          | V                 | -60.36      | -13.00      | -47.36      | -53.78            | -62.60                | 4.39                   |
| 257.95          | V                 | -65.37      | -13.00      | -52.37      | -60.10            | -67.56                | 4.34                   |
| 333.61          | V                 | -58.00      | -13.00      | -45.00      | -52.72            | -60.20                | 4.35                   |

NOTE: ERP = S.G power value + correction factor - 2.15.

| Mode            | WCDMA, Channel: 4233 |             |             |             |                   |                       |                        |
|-----------------|----------------------|-------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Frequency (MHz) | Antenna Polarity     | E.R.P (dBm) | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 40.67           | H                    | -60.68      | -13.00      | -47.68      | -60.33            | -46.33                | -12.20                 |
| 108.57          | H                    | -58.55      | -13.00      | -45.55      | -49.13            | -56.25                | -0.15                  |
| 127.00          | H                    | -56.78      | -13.00      | -43.78      | -47.59            | -53.70                | -0.93                  |
| 204.60          | H                    | -61.48      | -13.00      | -48.48      | -49.96            | -63.72                | 4.39                   |
| 335.55          | H                    | -62.15      | -13.00      | -49.15      | -55.27            | -64.36                | 4.36                   |
| 458.74          | H                    | -63.22      | -13.00      | -50.22      | -58.95            | -65.16                | 4.09                   |
| 46.49           | V                    | -57.22      | -13.00      | -44.22      | -48.10            | -43.69                | -11.38                 |
| 104.69          | V                    | -56.29      | -13.00      | -43.29      | -48.19            | -54.18                | 0.04                   |
| 139.61          | V                    | -61.36      | -13.00      | -48.36      | -56.65            | -63.62                | 4.41                   |
| 202.66          | V                    | -57.92      | -13.00      | -44.92      | -51.06            | -60.16                | 4.39                   |
| 458.74          | V                    | -57.05      | -13.00      | -44.05      | -53.45            | -58.99                | 4.09                   |
| 530.52          | V                    | -61.78      | -13.00      | -48.78      | -61.04            | -63.75                | 4.12                   |

NOTE: ERP = S.G power value + correction factor - 2.15.

### 3.2.6 Test Result of Radiated Emissions above 1GHz

| Mode            | GSM, Channel: 128 |             |             |             |                   |                       |                        |
|-----------------|-------------------|-------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Frequency (MHz) | Antenna Polarity. | E.R.P (dBm) | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 1648.40         | H                 | -57.20      | -13.00      | -44.20      | -59.82            | -60.08                | 5.03                   |
| 2472.60         | H                 | -46.15      | -13.00      | -33.15      | -53.39            | -50.08                | 6.08                   |
| 3296.80         | H                 | -56.01      | -13.00      | -43.01      | -66.11            | -60.26                | 6.40                   |
| 1648.40         | V                 | -56.58      | -13.00      | -43.58      | -58.72            | -59.46                | 5.03                   |
| 2472.60         | V                 | -48.20      | -13.00      | -35.20      | -56.14            | -52.13                | 6.08                   |
| 3296.80         | V                 | -55.23      | -13.00      | -42.23      | -65.42            | -59.48                | 6.40                   |

NOTE: ERP = S.G power value + correction factor - 2.15.

| Mode            | WCDMA, Channel: 4233 |             |             |             |                   |                       |                        |
|-----------------|----------------------|-------------|-------------|-------------|-------------------|-----------------------|------------------------|
| Frequency (MHz) | Antenna Polarity.    | E.R.P (dBm) | Limit (dBm) | Margin (dB) | S.A Reading (dBm) | S.G Power Vaule (dBm) | Correction Factor (dB) |
| 1693.20         | H                    | -68.62      | -13.00      | -55.62      | -71.13            | -71.64                | 5.17                   |
| 2539.80         | H                    | -66.71      | -13.00      | -53.71      | -74.36            | -70.61                | 6.05                   |
| 3386.40         | H                    | -64.45      | -13.00      | -51.45      | -74.52            | -68.82                | 6.52                   |
| 1693.20         | V                    | -59.06      | -13.00      | -46.06      | -61.20            | -62.08                | 5.17                   |
| 2539.80         | V                    | -65.78      | -13.00      | -52.78      | -74.28            | -69.68                | 6.05                   |
| 3386.40         | V                    | -64.15      | -13.00      | -51.15      | -74.35            | -68.52                | 6.52                   |

NOTE: ERP = S.G power value + correction factor - 2.15.

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

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Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou  
District, New Taipei City, Taiwan,  
R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd  
St., Kwei Shan Hsiang, Tao  
Yuan Hsien 333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan Hsiang, Tao  
Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

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