

FCC TEST REPORT (PART 24)

REPORT NO.: RF120823C14-1

MODEL NO.: F-03E

FCC ID: VQK-F03E

RECEIVED: Aug. 23, 2012

TESTED: Oct. 01 ~ Oct. 04, 2012

ISSUED: Oct. 09, 2012

APPLICANT: FUJITSU LIMITED

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ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---------------|-------------------|---------------|
| RF120823C14-1 | Original release | Oct. 09, 2012 |

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1 CERTIFICATION

PRODUCT: Mobile Phone

MODEL: F-03E

BRAND: NTT DOCOMO

APPLICANT: FUJITSU LIMITED

TESTED: Oct. 01 ~ Oct. 04, 2012

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 24, Subpart E

The above equipment (model: F-03E) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : , DATE : Oct. 09, 2012

Pettie Chen / Senior Specialist

APPROVED BY: Comes Lee, DATE: Oct. 09, 2012

James Lee / Manager



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 24 & Part 2 | | | | | | |
|--|---|------|--|--|--|--|
| STANDARD SECTION | TEST TYPE IR | | REMARK | | | |
| 2.1046 24.232 | Equivalent isotropically radiated power | PASS | Meet the requirement of limit. | | | |
| 2.1055 24.235 | Frequency Stability | PASS | Meet the requirement of limit. | | | |
| 2.1049 24.238(b) | Occupied Bandwidth | PASS | Meet the requirement of limit. | | | |
| 24.232(d) | Peak to average ratio | PASS | Meet the requirement of limit. | | | |
| 24.238(b) | Band Edge Measurements | PASS | Meet the requirement of limit. | | | |
| 2.1051 24.238 | Conducted Spurious Emissions | PASS | Meet the requirement of limit. | | | |
| 2.1053 24.238 | Radiated Spurious Emissions | | Meet the requirement of limit. Minimum passing margin is -21.49dB at 30.00MHz. | | | |

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|---------------------|-----------------|-------------|
| Conducted emissions | 150kHz~30MHz | 2.44 dB |
| | 30MHz ~ 200MHz | 2.93 dB |
| Radiated emissions | 200MHz ~1000MHz | 2.95 dB |
| Radialed emissions | 1GHz ~ 18GHz | 2.26 dB |
| | 18GHz ~ 40GHz | 1.94 dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2.2 TEST SITE AND INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|----------------|------------|---------------------|-------------------------|
| Test Receiver Agilent | N9038A | MY51210203 | Dec. 22, 2011 | Dec. 21, 2012 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | Dec. 21, 2011 | Dec. 20, 2012 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-472 | Dec. 20, 2011 | Dec. 19, 2012 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-969 | Dec. 20, 2011 | Dec. 19, 2012 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 9170-480 | Dec. 20, 2011 | Dec. 19, 2012 |
| Preamplifier EMCI | EMC 012645 | 980115 | Dec. 30, 2011 | Dec. 29, 2012 |
| Preamplifier EMCI | EMC 330H | 980112 | Dec. 30, 2011 | Dec. 29, 2012 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 309219/4 | Oct. 21, 2011 | Oct. 20, 2012 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 250130/4 | Jan. 02, 2012 | Jan. 01, 2013 |
| RF signal cable Worken | RG-213 | NA | Jan. 02, 2012 | Jan. 01, 2013 |
| Software | E3 6.120103 | NA | NA | NA |
| Antenna Tower MF | MFA-440H | NA | NA | NA |
| Turn Table MF | MFT-201SS | NA | NA | NA |
| Antenna Tower &Turn Table Controller MF | MF-7802 | NA | NA | NA |
| Communications Tester-Wireless | E5515C | MY50266630 | Sep. 29, 2011 | Sep. 27, 2013 |
| Radio Communication Analyzer | MT8820C | 6201127458 | May 25, 2012 | May 24, 2013 |

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The calibration interval of the Communications Tester-Wireless is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 3. The test was performed in HwaYa Chamber 9.
- 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 5. The FCC Site Registration No. is 460141.
- 6. The IC Site Registration No. is IC 7450F-4.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| EUT | Mobile Phone | | | | |
|------------------------|---|------|--|--|--|
| MODEL NO. | F-03E | | | | |
| POWER SUPPLY | 5.1Vdc (adapter or host equipment) 3.8Vdc (battery) | | | | |
| MODULATION TYPE | GSM/GPRS | GMSK | | | |
| FREQUENCY RANGE | GSM/GPRS 1850.2MHz ~ 1909.8MHz | | | | |
| MAX. EIRP POWER | GSM 972.75mW | | | | |
| EMISSION DESIGNATOR | GSM 247KGXW | | | | |
| MULTI-SLOTS CLASS | 12 | | | | |
| ANTENNA TYPE | GSM Fixed Internal antenna with 0dBi gain | | | | |
| I/O PORTS | Refer to users' manual | | | | |
| DATA CABLE | Refer to NOTE as below | | | | |
| ACCESSORY DEVICES | Refer to NOTE as below | | | | |

NOTE:

1. The EUT contains following accessory and components.

| ITEM | BRAND | MODEL | SPECIFICATION |
|--------------|---------|-------------|---|
| Battery | FUJITSU | F29 | Rating: 3.8Vdc, 1810mAh Type: Li-ion |
| LCD Panel | JDI | GCX162BLP-7 | |
| Photo Camera | ALTEK | AOA0803 | |
| Video Camera | ALTEK | ASF0104 | |

2. The following accessories are for support units only.

| ITEM | BRAND | MODEL | SPECIFICATION |
|-----------|----------|-------------------|---|
| Adapter | Motorola | 11)(.40500.50.301 | Input: 100-240Vac, 50/60Hz, 0.2A Output: 5.1Vdc, 850mA |
| USB cable | Motorola | NA | 1.0m |

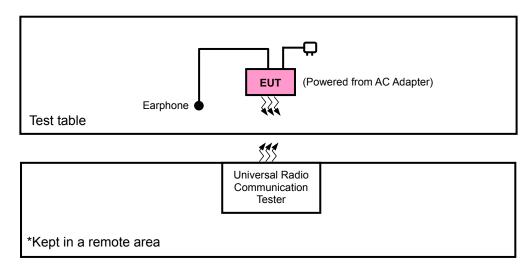
- 3. SW version is LYDV01R13Ge
- 4. HW version is DVT2.
- 5. IMEI code: 353737050010461
- 6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



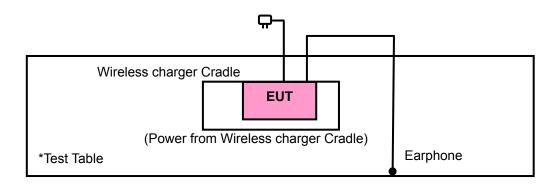
3.2 CONFIGURATION OF SYSTEM UNDER TEST

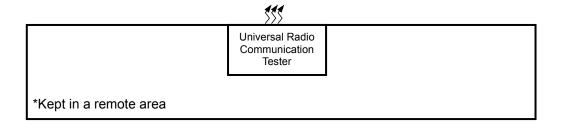
FOR RADIATION EMISSION TEST

Tset Mode A



Tset Mode B

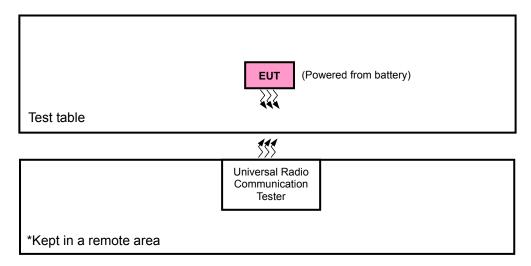




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FOR E.I.R.P. TEST



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------------------------|------------|-----------|------------|--------|
| 1 | Earphone | DONGMEI | D-D606 | NA | NA |
| 2 | Wireless charger Cradle | NTT docomo | AAF39571 | NA | NA |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS | | | |
|-----|---|--|--|--|
| 1 | 1.32m non-shielded cable without core | | | |
| 2 | NA | | | |

NOTE:

- 1. All power cords of the above support units are non-shielded (1.8 m).
- 2. Item 1, 2 were provided by client.



3.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports The worst case was found when positioned on Y-plane for EIRP and Y-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | DESCRIPTION |
|--------------------------|-----------------|
| А | Normal link |
| В | Wireless charge |

GSM MODE

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------|----------------------|-------------------|----------------|------|
| А | EIRP | 512 to 810 | 512, 661, 810 | GSM |
| А | FREQUENCY STABILITY | 512 to 810 | 661 | GSM |
| А | OCCUPIED BANDWIDTH | 512 to 810 | 512, 661, 810 | GSM |
| А | BAND EDGE | 512 to 810 | 512, 810 | GSM |
| А | CONDCUDETED EMISSION | 512 to 810 | 661 | GSM |
| A, B | RADIATED EMISSION | 512 to 810 | 661 | GSM |

TEST CONDITION:

| TEST ITEM | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|----------------------|--------------------------|--------------|--------------|
| EIRP | 26deg. C, 58%RH | 3.8Vdc | Phoenix Chen |
| FREQUENCY STABILITY | 26deg. C, 58%RH | 3.8Vdc | Phoenix Chen |
| OCCUPIED BANDWIDTH | 26deg. C, 58%RH | 3.8Vdc | Phoenix Chen |
| BAND EDGE | 26deg. C, 58%RH | 3.8Vdc | Phoenix Chen |
| CONDCUDETED EMISSION | 26deg. C, 58%RH | 3.8Vdc | Phoenix Chen |
| RADIATED EMISSION | 25deg. C, 65%RH | 120Vac, 60Hz | Kay Wu |



3.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2 FCC 47 CFR Part 24 ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.



4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.

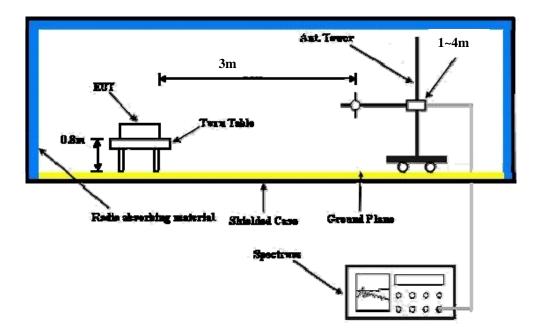
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with GSM link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



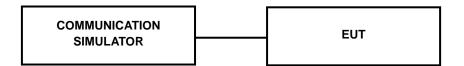
4.1.3 TEST SETUP

EIRP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

| Band | GSM1900 | | | | | |
|--------------------------|---------|--------|--------|--|--|--|
| Channel | 512 | 661 | 810 | | | |
| Frequency (MHz) | 1850.2 | 1880.0 | 1909.8 | | | |
| GSM (GMSK, 1 Uplink) | 29.48 | 29.73 | 30.05 | | | |
| GPRS 8 (GMSK, 1 Uplink) | 29.45 | 29.70 | 30.03 | | | |
| GPRS 10 (GMSK, 2 Uplink) | 27.06 | 27.07 | 27.67 | | | |
| GPRS 11 (GMSK, 3 Uplink) | 25.01 | 24.88 | 25.52 | | | |
| GPRS 12 (GMSK, 4 Uplink) | 23.36 | 23.38 | 23.93 | | | |

EIRP POWER (dBm)

GSM

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|--------------------|--------------|--------------------------|-----------|----------|-----------------------|
| | 512 | 1850.2 | -12.88 | 38.19 | 25.31 | 339.63 | Н |
| | 661 | 1880.0 | -12.77 | 38.70 | 25.93 | 391.74 | Н |
| Y | 810 | 1909.8 | -12.83 | 38.43 | 25.60 | 363.08 | Н |
| ľ | 512 | 1850.2 | -8.63 | 38.48 | 29.85 | 966.05 | V |
| | 661 | 1880.0 | -8.71 | 38.59 | 29.88 | 972.75 | V |
| | 810 | 1909.8 | -9.24 | 38.87 | 29.63 | 918.33 | V |

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4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

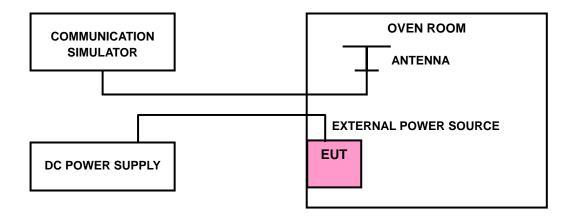
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}$ C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP



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4.2.4 TEST RESULTS

FREQUENCY ERROR VS. VOLTAGE

| | FREQUENCY ERROR (ppm) | | |
|-----------------|-----------------------|-------------|--|
| VOLTAGE (Volts) | GSM | LIMIT (ppm) | |
| 3.8 | -0.012 | 2.5 | |
| 3.42 | 0.014 | 2.5 | |
| 4.12 | -0.010 | 2.5 | |

NOTE: The applicant defined the normal working voltage of the battery is from 3.42Vdc to 4.12Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

| | FREQUENCY ERROR (ppm) | | |
|-------------------|-----------------------|-------------|--|
| TEMP. (°C) | GSM | LIMIT (ppm) | |
| -30 | 0.015 | 2.5 | |
| -20 | 0.014 | 2.5 | |
| -10 | -0.010 | 2.5 | |
| 0 | 0.007 | 2.5 | |
| 10 | -0.009 | 2.5 | |
| 20 | -0.008 | 2.5 | |
| 30 | -0.011 | 2.5 | |
| 40 | -0.011 | 2.5 | |
| 50 | -0.007 | 2.5 | |
| 55 | -0.009 | 2.5 | |

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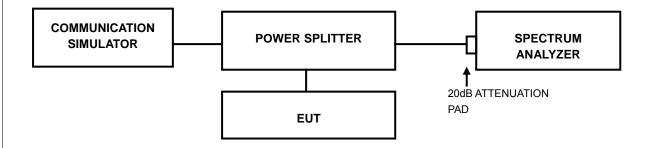


4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

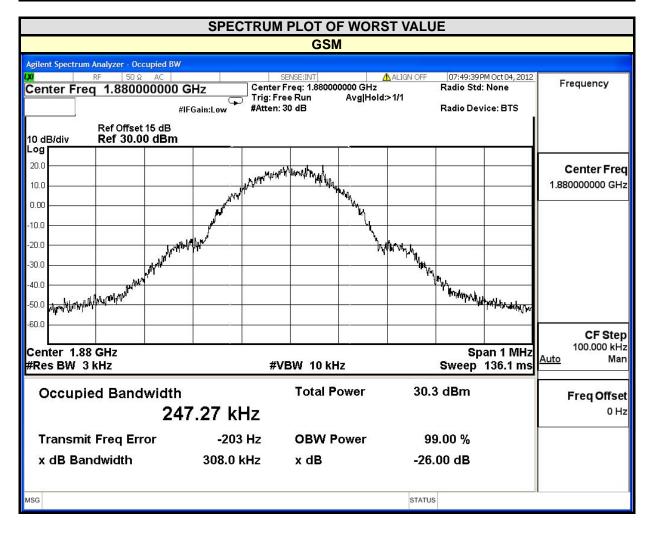
4.3.2 TEST SETUP





4.3.3 TEST RESULTS

| CHANNEL | FREQUENCY | 99% OCCUPIED BANDWIDTH (kHz) | | | |
|---------------|-----------|------------------------------|--|--|--|
| CHANNEL (MHz) | | GSM | | | |
| 512 | 1850.2 | 246.60 | | | |
| 661 | 1880.0 | 247.27 | | | |
| 810 | 1909.8 | 247.15 | | | |



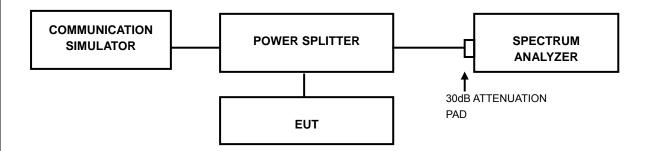


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.4.2 TEST SETUP



4.4.3 TEST PROCEDURES

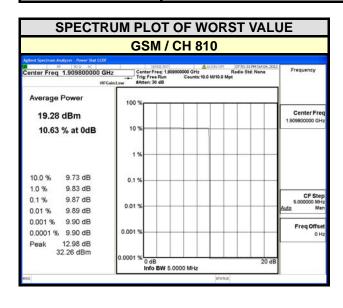
- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.

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4.4.4 TEST RESULTS

| CHANNEL | EDECLIENCY (MILE) | PEAK TO AVERAGE RATIO (dB) | | |
|---------|-------------------|----------------------------|--|--|
| | FREQUENCY (MHz) | GSM | | |
| 512 | 1850.2 | 9.28 | | |
| 661 | 1880.0 | 9.24 | | |
| 810 | 1909.8 | 9.87 | | |



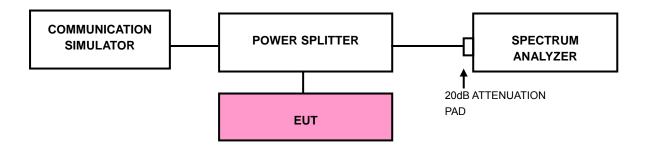


4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.5.2 TEST SETUP

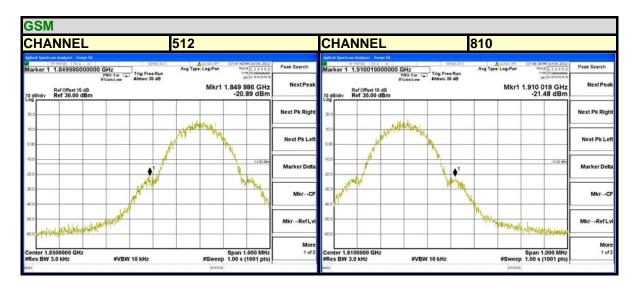


4.5.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM).
- c. Record the max trace plot into the test report.



4.5.4 TEST RESULTS





4.6 CONDUCTED SPURIOUS EMISSIONS

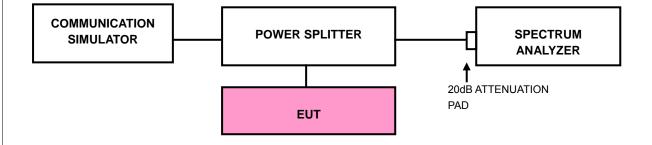
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 $43 + 10 \log(P) dB$. The emission limit equal to -13dBm.

4.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

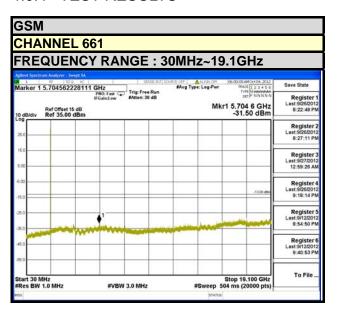
4.6.3 TEST SETUP



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4.6.4 TEST RESULTS





4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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 $43 + 10 \log(P) dB$. The emission limit equal to -13dBm.

4.7.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15dBi.

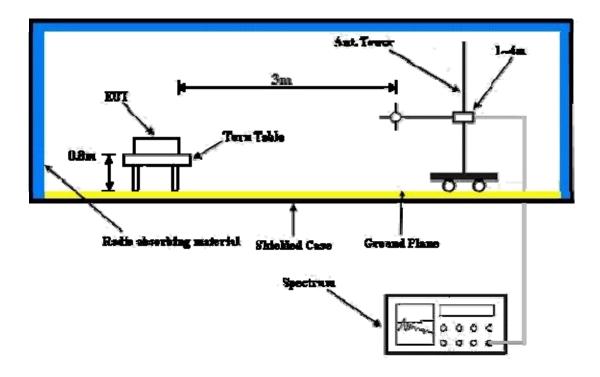
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.7.3 DEVIATION FROM TEST STANDARD

No deviation



4.7.4 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).



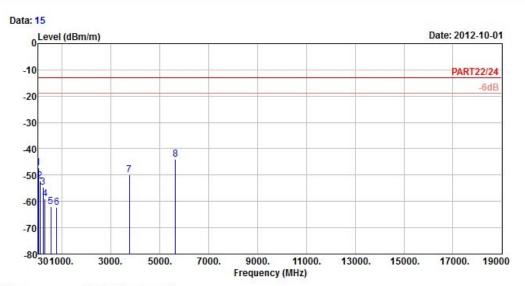
4.7.5 TEST RESULTS

Test Mode A

GSM:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: F-03E

Remark : PCS1900 Link Tested by : Kay Wu Temprature : 25℃ Humidity : 65% Plane : Y

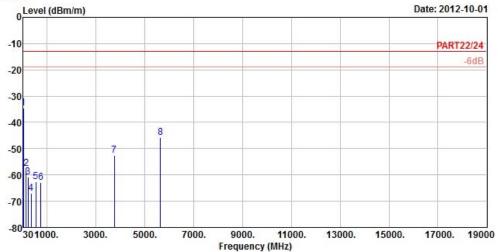
| 10111 | 0.5 | | | | | | |
|-------|---------|--------|---------------|---------------|--------|--------|--------|
| | Freq | Level | Read Level | Limit Line | | Factor | Remark |
| - | MHz | dBm/m | dBm | dBm/m | dB | dB/m | 19 |
| 1 | 30.54 | -47.33 | -47.67 | -13.00 | -34.33 | 0.34 | Peak |
| 2 | 103.71 | -52.13 | -41.65 | -13.00 | -39.13 | -10.48 | Peak |
| 3 | 225.48 | -54.50 | -47.73 | -13.00 | -41.50 | -6.77 | Peak |
| 4 | 307.00 | -59.14 | -52.82 | -13.00 | -46.14 | -6.32 | Peak |
| 5 | 537.30 | -62.00 | -59.92 | -13.00 | -49.00 | -2.08 | Peak |
| 6 | 786.50 | -62.43 | -64.47 | -13.00 | -49.43 | 2.04 | Peak |
| 7 | 3760.00 | -49.85 | -43.12 | -13.00 | -36.85 | -6.73 | Peak |
| 8 pp | 5640.00 | -44.00 | -44.21 | -13.00 | -31.00 | 0.21 | Peak |
| | | | | | | | |





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: F-03E

Remark : PCS1900 Link

Tested by : Kay Wu Temprature : 25℃ Humidity : 65% Plane : Y

Read Limit Over

Line Limit Factor Remark Freq Level Level MHz dBm/m dBm dBm/m dB dB/m

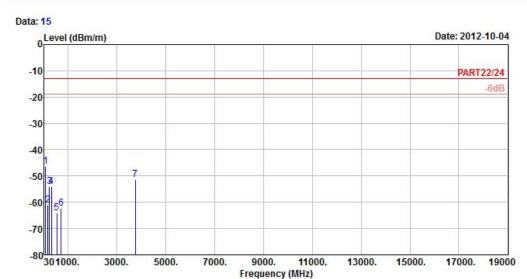
| 1 pp | 30.00 | -34.49 | -35.56 | -13.00 | -21.49 | 1.07 | Peak |
|------|---------|--------|--------|--------|--------|-------|------|
| 2 | 152.85 | -57.61 | -51.20 | -13.00 | -44.61 | -6.41 | Peak |
| 3 | 224.67 | -60.82 | -54.01 | -13.00 | -47.82 | -6.81 | Peak |
| 4 | 345.50 | -67.01 | -60.97 | -13.00 | -54.01 | -6.04 | Peak |
| 5 | 537.30 | -62.70 | -60.62 | -13.00 | -49.70 | -2.08 | Peak |
| 6 | 756.40 | -62.95 | -64.78 | -13.00 | -49.95 | 1.83 | Peak |
| 7 | 3760.00 | -52.54 | -45.81 | -13.00 | -39.54 | -6.73 | Peak |
| 8 | 5640.00 | -45.84 | -46.05 | -13.00 | -32.84 | 0.21 | Peak |



Test Mode B



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: F-03E

Remark : PCS1900 Link Tested by : Kay Wu

Tested by : Kay V Temprature : 25℃ Humidity : 65%

Plane : Wireless charger

MHz dBm/m

Read Limit Over

dBm dBm/m

Freq Level Line Limit Factor Remark

dB

dB/m

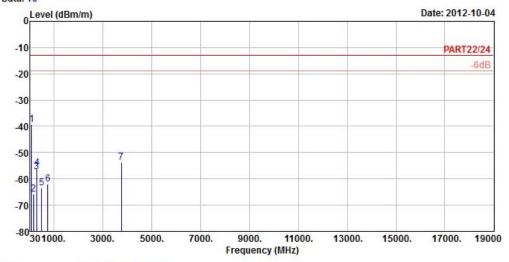
| 1 pp | 76.98 | -46.31 | -36.38 | -13.00 | -33.31 | -9.93 | Peak |
|------|---------|--------|--------|--------|--------|-------|------|
| 2 | 172.56 | -61.22 | -54.47 | -13.00 | -48.22 | -6.75 | Peak |
| 3 | 237.63 | -54.05 | -47.80 | -13.00 | -41.05 | -6.25 | Peak |
| 4 | 318.20 | -54.05 | -47.81 | -13.00 | -41.05 | -6.24 | Peak |
| 5 | 537.30 | -64.03 | -61.95 | -13.00 | -51.03 | -2.08 | Peak |
| 6 | 722.10 | -62.24 | -63.84 | -13.00 | -49.24 | 1.60 | Peak |
| 7 | 3760.00 | -51.50 | -44.77 | -13.00 | -38.50 | -6.73 | Peak |





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: F-03E

Remark : PCS1900 Link

Tested by : Kay Wu Temprature : 25°C Humidity : 65%

Plane : Wireless charger

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

| 1 pp | 76.44 | -39.13 | -29.20 | -13.00 | -26.13 | -9.93 Peak |
|------|---------|--------|--------|--------|--------|------------|
| 2 | 157.71 | -65.91 | -59.43 | -13.00 | -52.91 | -6.48 Peak |
| 3 | 296.76 | -57.35 | -51.01 | -13.00 | -44.35 | -6.34 Peak |
| 4 | 300.00 | -55.86 | -49.48 | -13.00 | -42.86 | -6.38 Peak |
| 5 | 498.80 | -63.38 | -60.24 | -13.00 | -50.38 | -3.14 Peak |
| 6 | 746.60 | -62.08 | -63.85 | -13.00 | -49.08 | 1.77 Peak |
| 7 | 3760.00 | -53.76 | -47.03 | -13.00 | -40.76 | -6.73 Peak |



| 5 PHOTOGRAPHS OF THE TEST CONFIGURATION | | | | | | |
|---|---|--|--|--|--|--|
| Please refer to the attached file (Test Setup Photo). | Please refer to the attached file (Test Setup Photo). | | | | | |
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6 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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| 7 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB |
|--|
| No any modifications were made to the EUT by the lab during the test. |
| END |
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