

FCC Test Report

APPLICANT : Sony Mobile Communications AB
EQUIPMENT : Smart phone
BRAND NAME : Sony
MODEL NAME : PM-0251-BV
MARKETING NAME : C1605
FCC ID : PY7PM-0251
STANDARD : FCC 47 CFR Part 15:2012 Subpart B
CLASSIFICATION : Verification

The product was received on Sep. 27, 2012 and completely tested on Oct. 28, 2012. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards. The test results also comply with Industrial Canada Interference-Causing Equipment Standard ICES-003 with no deviation from the standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | RESULT (PASS/FAIL) | Remark |
|----------------|----------|---------|-----------------------|---------------------------------------------------------------|--------------------|-----------------------------------------|
| 3.1 | 15.107 | 7.2.4 | AC Conducted Emission | < 15.107 limits < RSS-Gen table 2 limits | PASS | Under limit 9.5 dB at 0.366 MHz |
| 3.2 | 15.109 | 7.2.3.2 | Radiated Emission | < 15.109 limits or < RSS-Gen table 1 limits (Section 6) | PASS | Under limit 6.93 dB at 31.080 MHz |



1. General Description

1.1. Applicant

Sony Mobile Communications AB
Nya Vattentorget, 22188 Lund, Sweden

1.2. Manufacturer

Arima Communications Corp.
6F, No. 866, Jhongjheng Rd., Jhonghe City, Taipei County 23586, Taiwan

1.3. Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is mobile phone supporting, GSM / WCDMA / Wi-Fi 2.4GHz 802.11b/g/n, Bluetooth with FM Receiver, and GPS features, and below is details of information.

| General Information of Equipment Under Test | |
|---------------------------------------------|--------------------------------|
| Equipment | Smart phone |
| Brand Name | Sony |
| Model Name | PM-0251-BV |
| Marketing Name | C1605 |
| FCC ID | PY7PM-0251 |
| GSM Operating Band(s) | GSM 850/900/1800/1900MHz |
| WCDMA Operating Band(s) | FDD Band I / VIII |
| WCDMA Rel. Version | Rel. 6 |
| GPRS / EGPRS Multi Slot Class | GPRS Class 12 , EGPRS Class 12 |
| Wi-Fi Specification | 802.11b/g/n (HT20) |
| Bluetooth Version | V2.1 + EDR / V3.0 |
| Power Supply | Battery/AC adapter/Car Charger |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4. Details of Tested Sample (EUT) Information

Below EUT sample and accessory are used to test.

| | |
|--------------------------|----------------------------------------------|
| EUT Serial Number | IMEI : 00440214-622774-3 S/N : WUJ012D9KD |
| H/W : | SP |
| S/W : | 11.1.A.0.21 |
| EUT Stage | Production Unit |

| Accessory List | |
|--------------------|------------------------------|
| AC Adapter | Model No. : EP800 |
| | Type No. : CAA-00002016-BV B |
| Battery | Model No. : BA700 |
| | Type No. : CBA-0002025 |
| Earphone | Model No. : MH410c |
| | Type No. : AG-1100 |
| USB Cable | Model No. : EC450 |
| | Part No. : 1242-6715.2 |
| Car Charger | Model No. : AN400 |
| | Type No. : CAA-0003013 |

Note:

1. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.
2. No modifications are made to the EUT during all test items.
3. For other wireless features of this EUT, test report will be issued separately.

1.5. Testing Facility

| | | | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------|
| Test Site | SPORTON INTERNATIONAL INC. | | |
| Test Site Location | No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978 | | |
| Test Site No. | Sporton Site No. | | FCC/IC Registration No. |
| | CO05-HY | 03CH06-HY | 722060/4086B-1 |

1.6. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- IC ICES-003 Issue 5

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. For FCC 15 Subpart B - Unintentional Radiators, receivers contained within a transceiver shall be authorized under the verification procedure per the Section 15.101 (b).
3. For other Unintentional Radiators features of this EUT, test reports are be issued separately.

Per the Note of the Section 15.101, when device supports features (USB, FM Radio, digital devices...etc) more than one category of authorization, type of authorization shall be appropriately chosen for FCC 15B compliance rule, and the Section 15.101 (b), only those receivers that operate (tune) within the frequency range of 30-960 MHz, CB receivers and radar detectors are subject to the authorizations shown in paragraph (a) of the Section 15.101. However, receivers indicated as being subject to Declaration of Conformity that are contained within a transceiver, the transmitter portion of which is subject to certification, shall be authorized under the verification procedure.

Receivers operating above 960 MHz or below 30 MHz, except for radar detectors and CB receivers, are exempt from complying with the technical provisions of this part but are subject to § 15.5.

2. Test Configuration of Equipment Under Test

2.1. Descriptions of Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 KHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

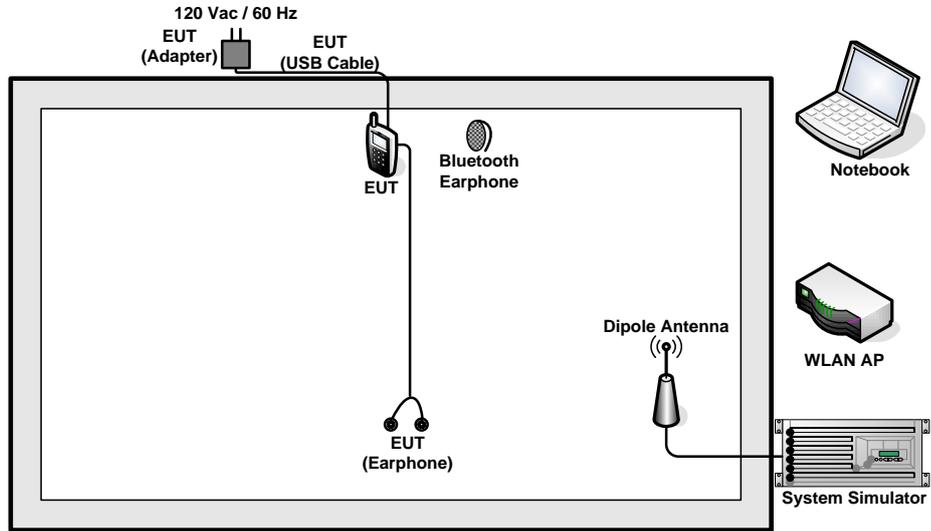
| Item | EUT Configuration | Test Condition | |
|------|----------------------------------------------------------|-------------------------------------|-------------------------------------|
| | | EMI AC | EMI RE |
| 1. | AC Charger with USB Cable + PHF (Earphone) + Battery | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. | Vehicle Charger with USB cable + PHF(Earphone) + Battery | N/A | <input checked="" type="checkbox"/> |

Abbreviations:

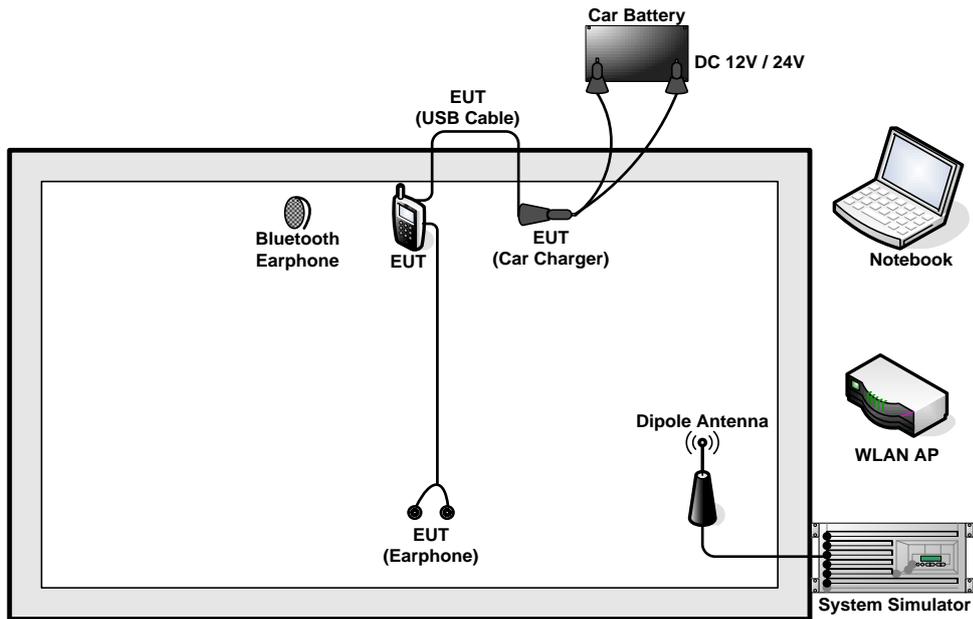
- EMI AC: AC conducted emissions
- EMI RE: EUT radiated emissions

| Test Items | EUT Configure Mode | Function Type |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| AC Conducted Emission | 1 | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 <Fig. 1> |
| | 1 | Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 <Fig. 1> |
| | 1 | Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2 <Fig. 1> |
| Radiated Emissions | 1 | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 <Fig. 1> |
| | 1 | Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 <Fig. 1> |
| | 2 | Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Car Charger 12V) + SIM 1 <Fig. 2> |
| | 2 | Mode 4: GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Car Charger 24V) + SIM 1 <Fig. 2> |
| | 1 | Mode 5: GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2 <Fig. 1> |
| <p>Remark:.</p> <ol style="list-style-type: none"> 1. AC Power line Conducted Emission is not applied for DC charger mode. 2. The SIM2 is tested based on the worst case of SIM for verification. | | |

2.2. Connection Diagram of EUT Test Configurations



<Fig. 1>



<Fig. 2>

2.3. Supported Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|--------------------|---------------|----------------|-------------|------------|------------------------------------------------------------|
| 1. | System Simulator | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | WLAN AP | D-Link | DIR-628 | KA2DIR628A2 | N/A | Unshielded, 1.8 m |
| 3. | Bluetooth Earphone | Sony Ericsson | MW600 | PY70DA2029 | N/A | N/A |
| 4. | Notebook | DELL | Latitude E6320 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 5. | Car Battery | YUASA | 46B24R(S) | N/A | N/A | N/A |

2.4. Description of EUT Operation Test Setup

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the system simulator, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Turn on MP3 to play music.
2. Turn on camera to capture images.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1. Limits of AC Conducted Emission

For equipment that 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 the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dBuV) | |
|--------------------------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

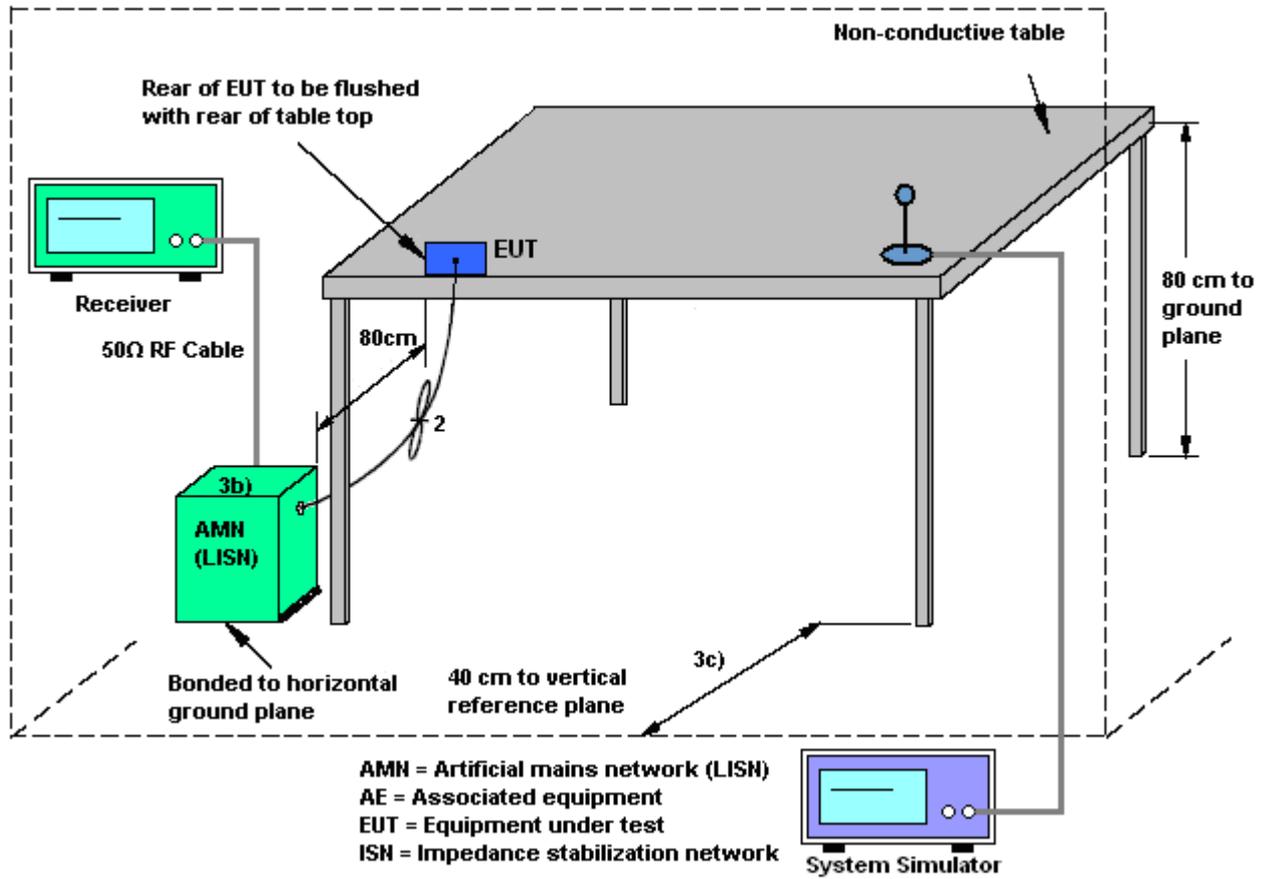
3.1.2. Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3. Test Procedure

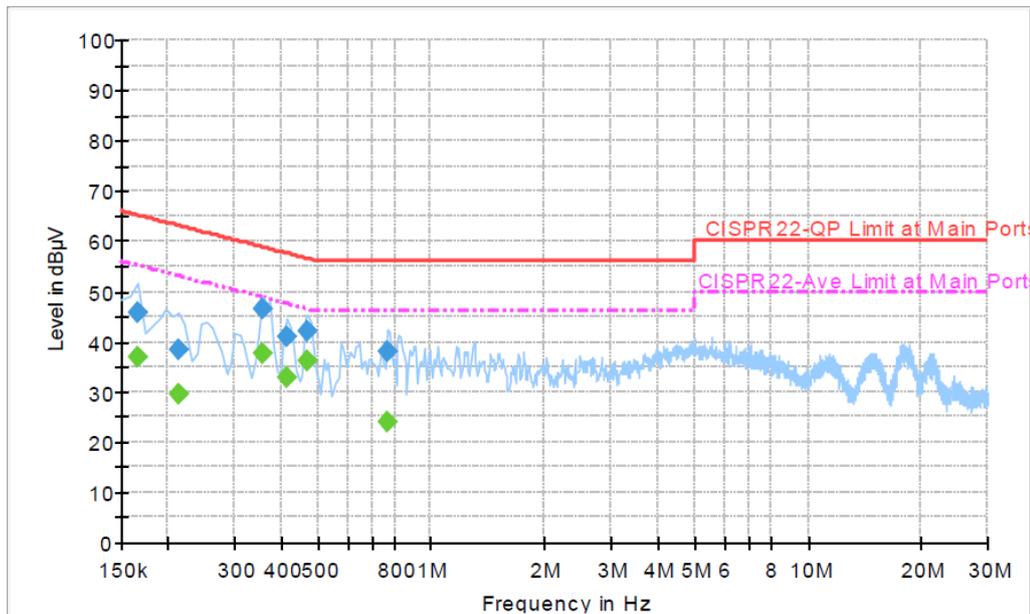
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 KHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.1.4. Test Setup



3.1.5. Test Result of AC Conducted Emission

| | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



Final Result : Quasi-Peak

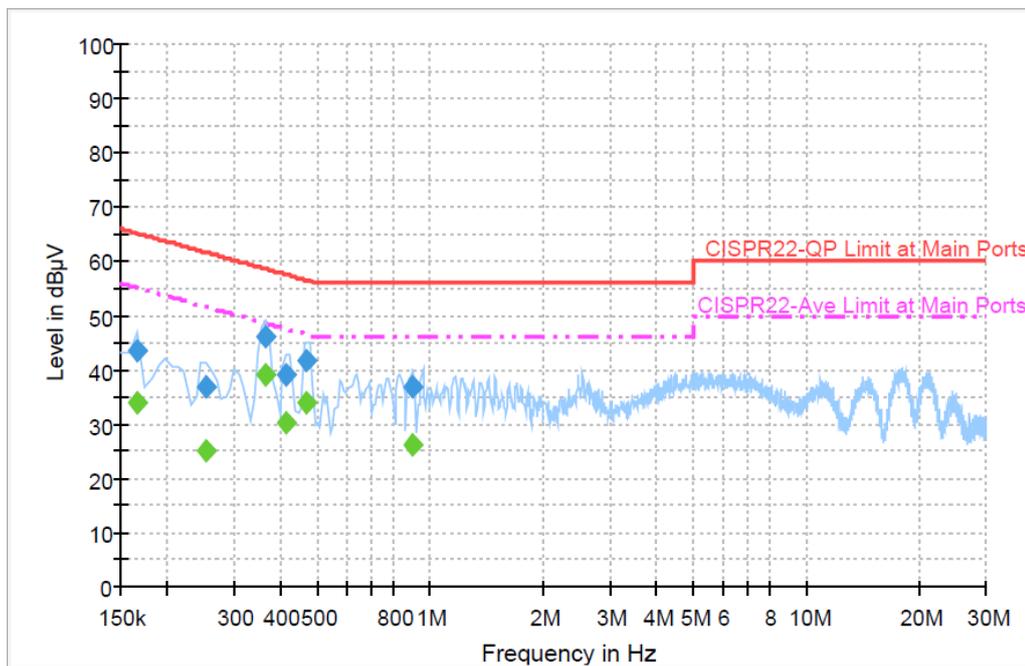
| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 45.9 | Off | L1 | 19.4 | 19.3 | 65.2 |
| 0.214000 | 38.3 | Off | L1 | 19.4 | 24.7 | 63.0 |
| 0.358000 | 46.6 | Off | L1 | 19.4 | 12.2 | 58.8 |
| 0.414000 | 41.1 | Off | L1 | 19.4 | 16.5 | 57.6 |
| 0.470000 | 42.0 | Off | L1 | 19.4 | 14.5 | 56.5 |
| 0.766000 | 38.2 | Off | L1 | 19.5 | 17.8 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 36.9 | Off | L1 | 19.4 | 18.3 | 55.2 |
| 0.214000 | 29.5 | Off | L1 | 19.4 | 23.5 | 53.0 |
| 0.358000 | 37.7 | Off | L1 | 19.4 | 11.1 | 48.8 |
| 0.414000 | 32.9 | Off | L1 | 19.4 | 14.7 | 47.6 |
| 0.470000 | 36.0 | Off | L1 | 19.4 | 10.5 | 46.5 |
| 0.766000 | 23.8 | Off | L1 | 19.5 | 22.2 | 46.0 |



| | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



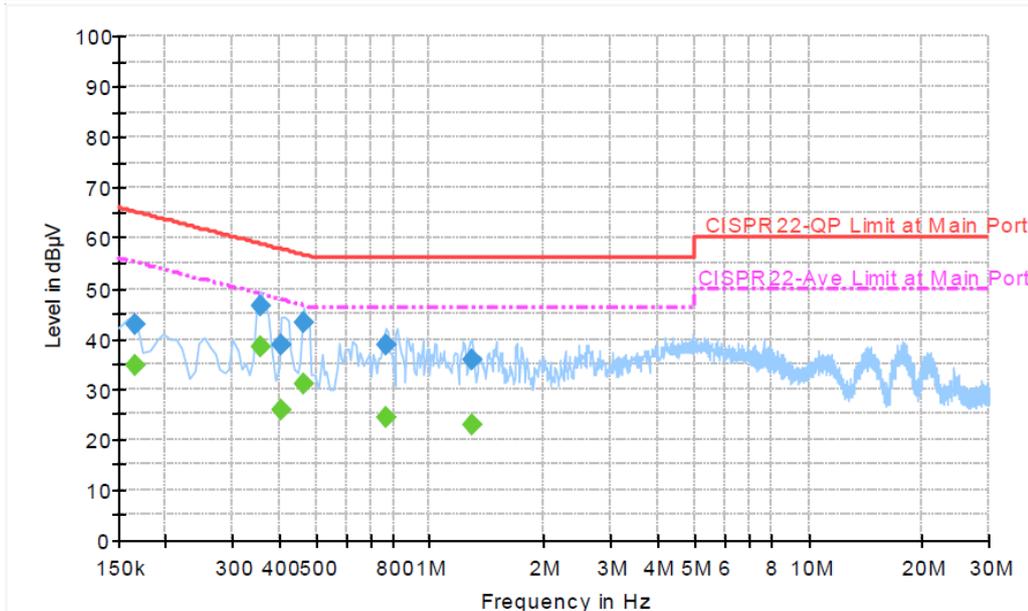
Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 43.5 | Off | N | 19.4 | 21.7 | 65.2 |
| 0.254000 | 37.1 | Off | N | 19.5 | 24.5 | 61.6 |
| 0.366000 | 46.2 | Off | N | 19.4 | 12.4 | 58.6 |
| 0.414000 | 39.1 | Off | N | 19.4 | 18.5 | 57.6 |
| 0.470000 | 41.7 | Off | N | 19.4 | 14.8 | 56.5 |
| 0.902000 | 37.0 | Off | N | 19.5 | 19.0 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 33.8 | Off | N | 19.4 | 21.4 | 55.2 |
| 0.254000 | 25.0 | Off | N | 19.5 | 26.6 | 51.6 |
| 0.366000 | 39.1 | Off | N | 19.4 | 9.5 | 48.6 |
| 0.414000 | 30.2 | Off | N | 19.4 | 17.4 | 47.6 |
| 0.470000 | 33.9 | Off | N | 19.4 | 12.6 | 46.5 |
| 0.902000 | 26.3 | Off | N | 19.5 | 19.7 | 46.0 |

| | | | |
|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode : | Mode 2 | Temperature : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



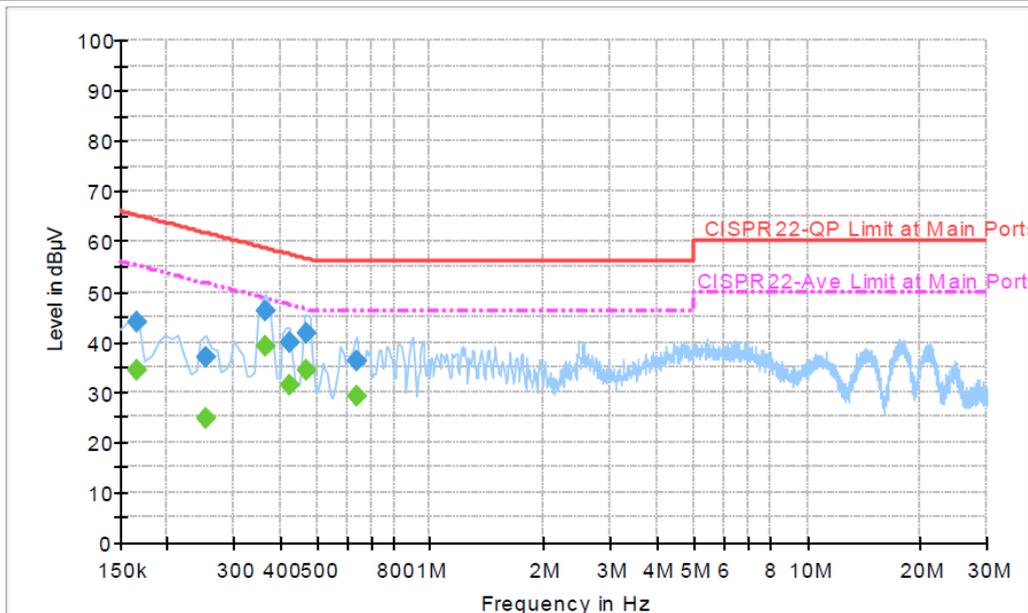
Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 42.9 | Off | L1 | 19.4 | 22.3 | 65.2 |
| 0.358000 | 46.6 | Off | L1 | 19.4 | 12.2 | 58.8 |
| 0.406000 | 38.8 | Off | L1 | 19.4 | 18.9 | 57.7 |
| 0.462000 | 43.1 | Off | L1 | 19.3 | 13.6 | 56.7 |
| 0.766000 | 38.8 | Off | L1 | 19.5 | 17.2 | 56.0 |
| 1.286000 | 35.7 | Off | L1 | 19.5 | 20.4 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 34.6 | Off | L1 | 19.4 | 20.6 | 55.2 |
| 0.358000 | 38.3 | Off | L1 | 19.4 | 10.5 | 48.8 |
| 0.406000 | 25.7 | Off | L1 | 19.4 | 22.0 | 47.7 |
| 0.462000 | 30.8 | Off | L1 | 19.3 | 15.9 | 46.7 |
| 0.766000 | 24.3 | Off | L1 | 19.5 | 21.7 | 46.0 |
| 1.286000 | 22.8 | Off | L1 | 19.5 | 23.2 | 46.0 |

| | | | |
|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode : | Mode 2 | Temperature : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



Final Result : Quasi-Peak

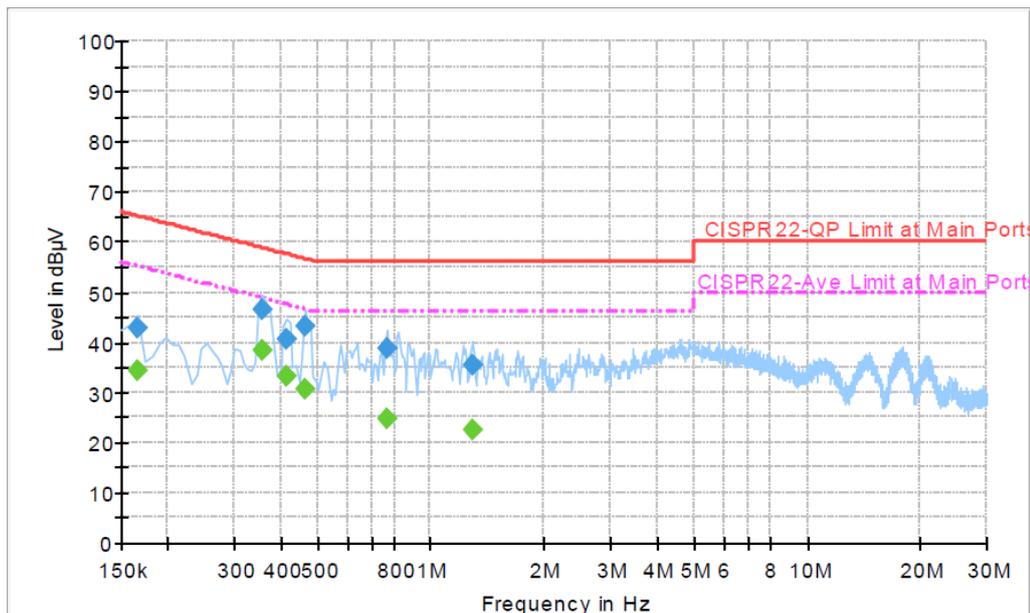
| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 44.0 | Off | N | 19.4 | 21.2 | 65.2 |
| 0.254000 | 36.8 | Off | N | 19.5 | 24.8 | 61.6 |
| 0.366000 | 46.1 | Off | N | 19.4 | 12.5 | 58.6 |
| 0.422000 | 40.0 | Off | N | 19.4 | 17.4 | 57.4 |
| 0.470000 | 41.6 | Off | N | 19.4 | 14.9 | 56.5 |
| 0.638000 | 36.1 | Off | N | 19.4 | 19.9 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 34.5 | Off | N | 19.4 | 20.7 | 55.2 |
| 0.254000 | 24.7 | Off | N | 19.5 | 26.9 | 51.6 |
| 0.366000 | 39.0 | Off | N | 19.4 | 9.6 | 48.6 |
| 0.422000 | 31.5 | Off | N | 19.4 | 15.9 | 47.4 |
| 0.470000 | 34.1 | Off | N | 19.4 | 12.4 | 46.5 |
| 0.638000 | 29.0 | Off | N | 19.4 | 17.0 | 46.0 |



| | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode : | Mode 3 | Temperature : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



Final Result : Quasi-Peak

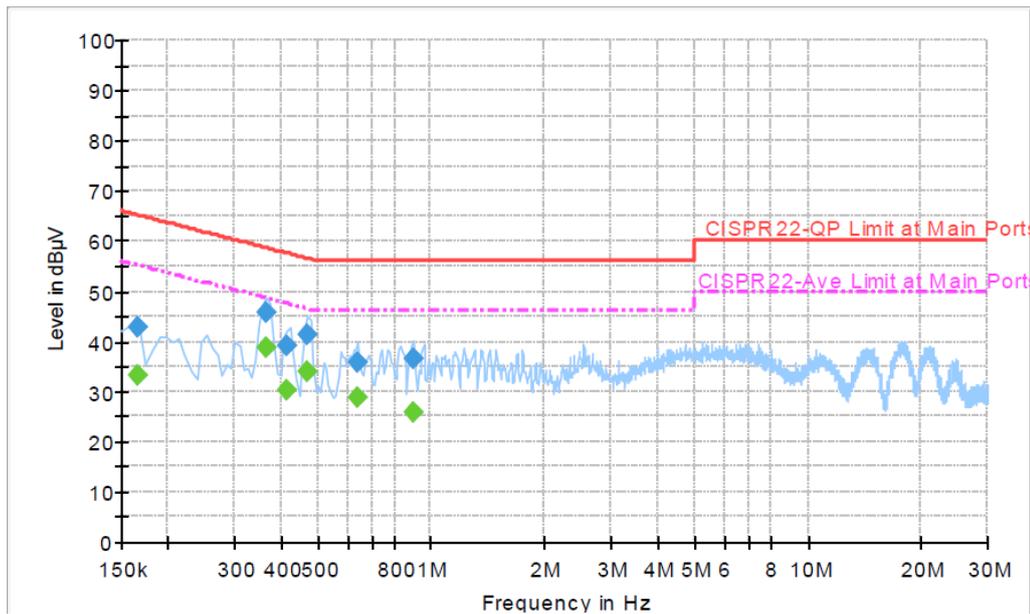
| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 42.7 | Off | L1 | 19.4 | 22.5 | 65.2 |
| 0.358000 | 46.5 | Off | L1 | 19.4 | 12.3 | 58.8 |
| 0.414000 | 40.7 | Off | L1 | 19.4 | 16.9 | 57.6 |
| 0.462000 | 43.1 | Off | L1 | 19.3 | 13.6 | 56.7 |
| 0.766000 | 38.6 | Off | L1 | 19.5 | 17.4 | 56.0 |
| 1.286000 | 35.6 | Off | L1 | 19.5 | 20.4 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 34.3 | Off | L1 | 19.4 | 20.9 | 55.2 |
| 0.358000 | 38.3 | Off | L1 | 19.4 | 10.5 | 48.8 |
| 0.414000 | 33.2 | Off | L1 | 19.4 | 14.4 | 47.6 |
| 0.462000 | 30.8 | Off | L1 | 19.3 | 15.9 | 46.7 |
| 0.766000 | 24.6 | Off | L1 | 19.5 | 21.4 | 46.0 |
| 1.286000 | 22.6 | Off | L1 | 19.5 | 23.4 | 46.0 |



| | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode : | Mode 3 | Temperature : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 42.9 | Off | N | 19.4 | 22.3 | 65.2 |
| 0.366000 | 45.9 | Off | N | 19.4 | 12.7 | 58.6 |
| 0.414000 | 38.9 | Off | N | 19.4 | 18.7 | 57.6 |
| 0.470000 | 41.5 | Off | N | 19.4 | 15.0 | 56.5 |
| 0.638000 | 35.9 | Off | N | 19.4 | 20.1 | 56.0 |
| 0.902000 | 36.7 | Off | N | 19.5 | 19.3 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 33.0 | Off | N | 19.4 | 22.2 | 55.2 |
| 0.366000 | 38.8 | Off | N | 19.4 | 9.8 | 48.6 |
| 0.414000 | 30.1 | Off | N | 19.4 | 17.5 | 47.6 |
| 0.470000 | 34.0 | Off | N | 19.4 | 12.5 | 46.5 |
| 0.638000 | 28.8 | Off | N | 19.4 | 17.2 | 46.0 |
| 0.902000 | 25.9 | Off | N | 19.5 | 20.1 | 46.0 |



3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.2.2. Measuring Instruments

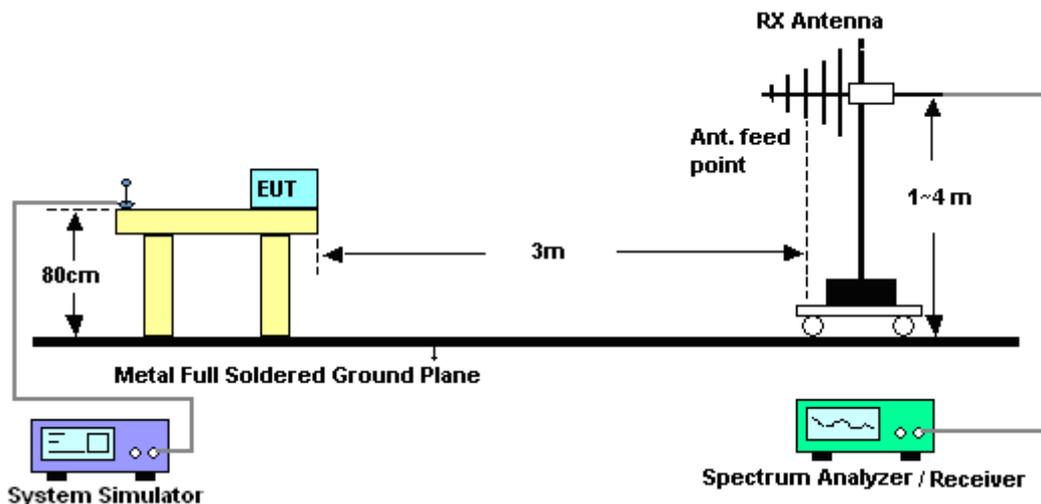
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3. Test Procedures

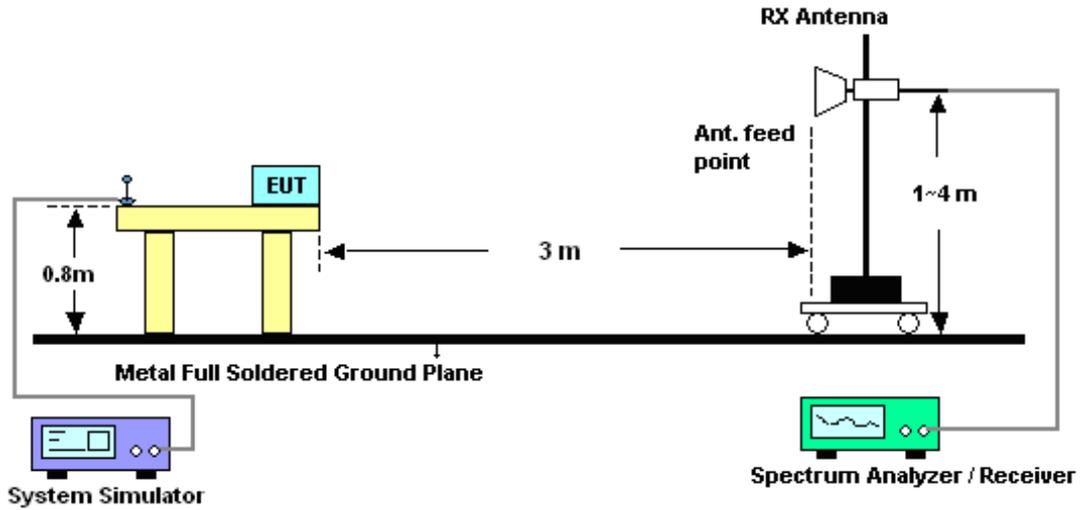
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



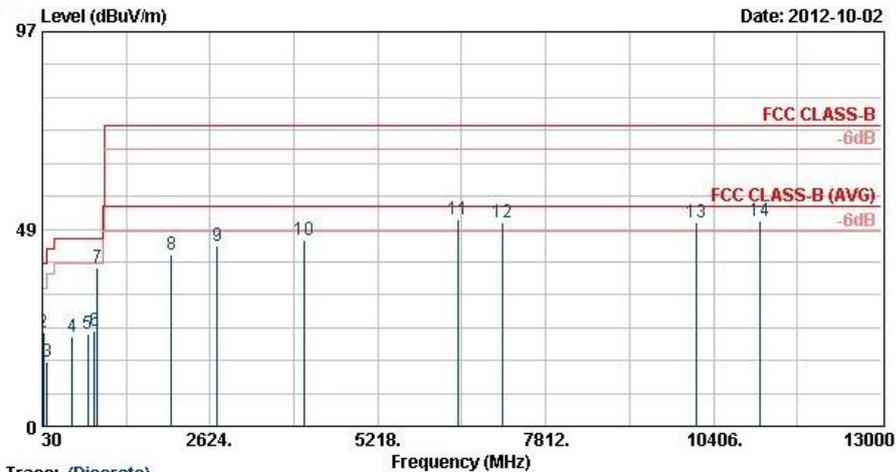
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

| | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Test Mode : | Mode 1 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Horizontal |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

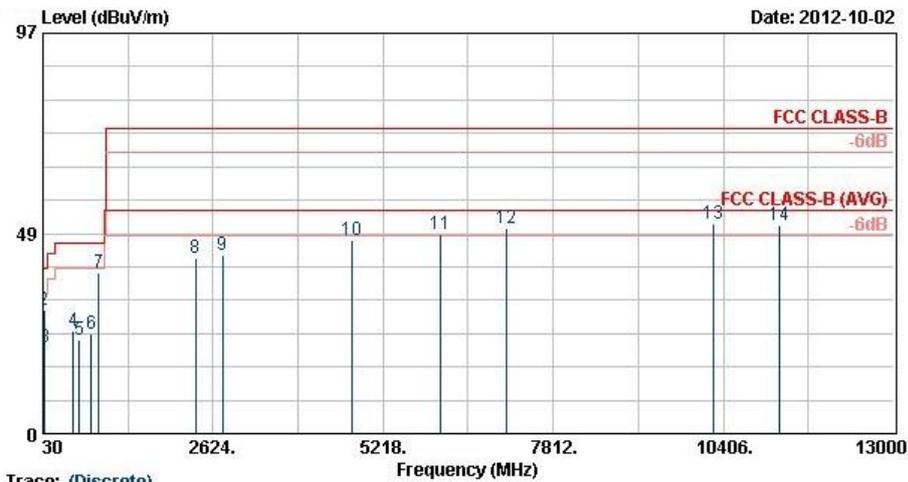


Trace: (Discrete)
 Site : 03CH06-RY
 Condition : FCC CLASS-B HF-ANT 120801 HORIZONTAL

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|-----|----------|--------|------------|------------|------------|----------------|------------|---------------|---------|-----------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 23.36 | -16.64 | 40.00 | 35.37 | 18.90 | 0.64 | 31.55 | 100 | 74 | Peak |
| 2 | 42.69 | 23.01 | -16.99 | 40.00 | 42.05 | 11.70 | 0.75 | 31.50 | --- | --- | Peak |
| 3 | 104.79 | 15.94 | -27.56 | 43.50 | 34.60 | 11.70 | 1.13 | 31.49 | --- | --- | Peak |
| 4 | 491.80 | 22.04 | -23.96 | 46.00 | 33.56 | 17.62 | 2.41 | 31.54 | --- | --- | Peak |
| 5 | 731.90 | 22.75 | -23.25 | 46.00 | 31.48 | 19.52 | 2.99 | 31.25 | --- | --- | Peak |
| 6 | 834.80 | 23.46 | -22.54 | 46.00 | 31.15 | 20.15 | 3.18 | 31.02 | --- | --- | Peak |
| 7 @ | 881.40 | 39.11 | | | 46.47 | 20.50 | 3.32 | 31.17 | --- | --- | Peak |
| 8 | 2022.00 | 42.26 | -31.74 | 74.00 | 58.50 | 31.82 | 5.93 | 54.00 | --- | --- | Peak |
| 9 | 2734.00 | 44.32 | -29.68 | 74.00 | 58.42 | 32.78 | 7.07 | 53.95 | --- | --- | Peak |
| 10 | 4078.00 | 45.94 | -28.06 | 74.00 | 57.77 | 34.00 | 9.09 | 54.92 | --- | --- | Peak |
| 11 | 6452.00 | 50.91 | -23.09 | 74.00 | 59.19 | 36.16 | 11.72 | 56.16 | 100 | 17 | Peak |
| 12 | 7142.00 | 50.12 | -23.88 | 74.00 | 59.59 | 36.17 | 10.99 | 56.62 | --- | --- | Peak |
| 13 | 10140.00 | 50.22 | -23.78 | 74.00 | 57.73 | 37.52 | 10.60 | 55.62 | --- | --- | Peak |
| 14 | 11120.00 | 50.34 | -23.66 | 74.00 | 55.83 | 38.09 | 10.83 | 54.41 | --- | --- | Peak |



| | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------------|----------|
| Test Mode : | Mode 1 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Vertical |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

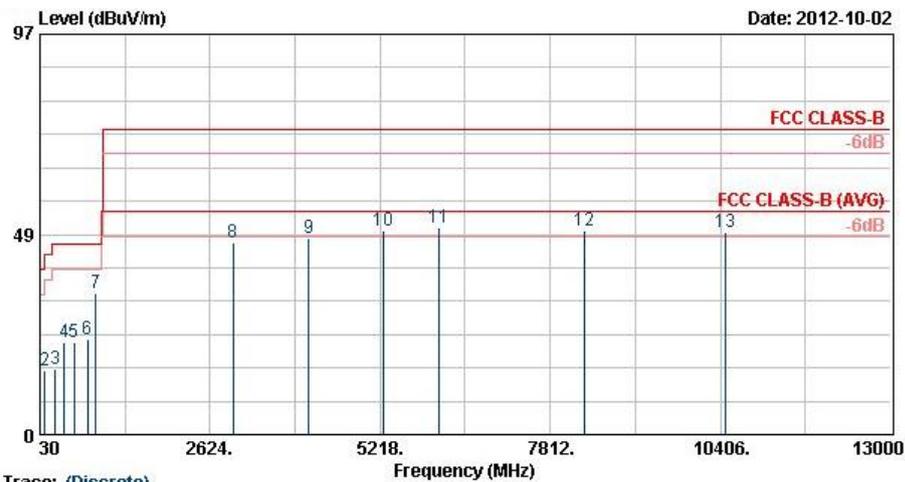


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT 120R01 VERTICAL

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|----|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| | | | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 31.08 | 30.44 | -9.56 | 40.00 | 43.11 | 18.22 | 0.65 | 31.54 | 100 | 31 | Peak |
| 2 | 41.88 | 29.77 | -10.23 | 40.00 | 48.32 | 12.20 | 0.75 | 31.50 | --- | --- | Peak |
| 3 | 57.54 | 21.04 | -18.96 | 40.00 | 45.37 | 6.32 | 0.85 | 31.50 | --- | --- | Peak |
| 4 | 491.80 | 25.05 | -20.95 | 46.00 | 36.56 | 17.62 | 2.41 | 31.54 | --- | --- | Peak |
| 5 | 588.40 | 22.76 | -23.24 | 46.00 | 33.04 | 18.82 | 2.72 | 31.82 | --- | --- | Peak |
| 6 | 768.30 | 24.15 | -21.85 | 46.00 | 32.55 | 19.78 | 3.05 | 31.23 | --- | --- | Peak |
| 7 | 881.40 | 38.87 | | | 46.24 | 20.50 | 3.32 | 31.19 | --- | --- | Peak |
| 8 | 2358.00 | 42.43 | -31.57 | 74.00 | 58.68 | 32.31 | 5.37 | 53.93 | --- | --- | Peak |
| 9 | 2772.00 | 43.14 | -30.86 | 74.00 | 58.43 | 32.82 | 5.84 | 53.95 | --- | --- | Peak |
| 10 | 4750.00 | 46.75 | -27.25 | 74.00 | 59.40 | 34.90 | 7.92 | 55.47 | --- | --- | Peak |
| 11 | 6086.00 | 48.18 | -25.82 | 74.00 | 59.62 | 35.87 | 9.29 | 56.60 | --- | --- | Peak |
| 12 | 7102.00 | 49.74 | -24.26 | 74.00 | 59.43 | 36.18 | 10.82 | 56.69 | --- | --- | Peak |
| 13 | 10252.00 | 50.77 | -23.23 | 74.00 | 58.21 | 37.60 | 10.46 | 55.50 | 100 | 300 | Peak |
| 14 | 11262.00 | 50.54 | -23.46 | 74.00 | 55.59 | 38.21 | 10.91 | 54.17 | --- | --- | Peak |



| | | | |
|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Test Mode : | Mode 2 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Horizontal |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

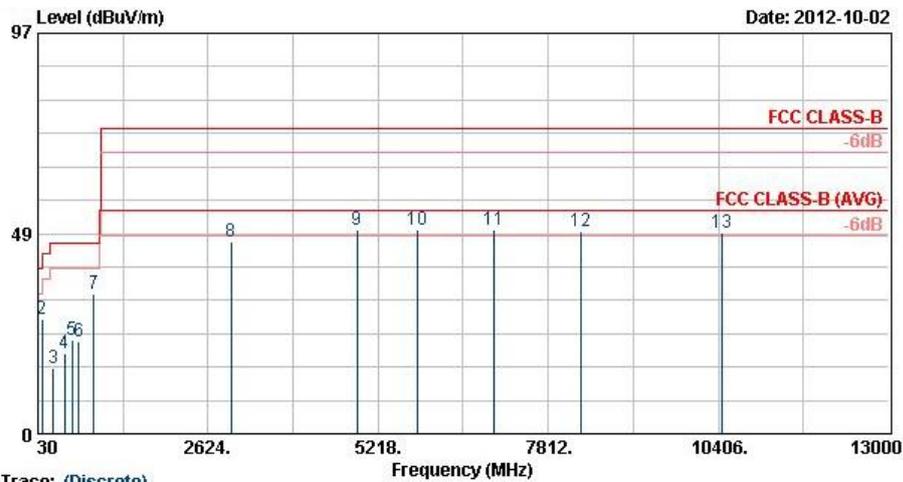


Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT_120801 HORIZONTAL

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|----|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| | | | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 19.58 | -20.42 | 40.00 | 31.69 | 18.80 | 0.64 | 31.55 | 102 | 78 | Peak |
| 2 | 106.14 | 15.65 | -27.85 | 43.50 | 34.31 | 11.64 | 1.13 | 31.43 | --- | --- | Peak |
| 3 | 260.04 | 15.96 | -30.04 | 46.00 | 31.60 | 13.70 | 1.79 | 31.13 | --- | --- | Peak |
| 4 | 399.40 | 22.25 | -23.75 | 46.00 | 35.97 | 15.90 | 2.19 | 31.81 | --- | --- | Peak |
| 5 | 547.80 | 22.19 | -23.81 | 46.00 | 31.72 | 19.02 | 2.54 | 31.09 | --- | --- | Peak |
| 6 | 756.40 | 23.10 | -22.90 | 46.00 | 31.14 | 19.86 | 3.05 | 30.96 | --- | --- | Peak |
| 7 | 881.40 | 34.20 | --- | --- | 41.45 | 20.61 | 3.32 | 31.17 | --- | --- | Peak |
| 8 | 2972.00 | 46.55 | -27.45 | 74.00 | 59.94 | 33.06 | 7.54 | 53.99 | --- | --- | Peak |
| 9 | 4132.00 | 47.48 | -26.52 | 74.00 | 59.09 | 34.12 | 9.20 | 54.93 | --- | --- | Peak |
| 10 | 5260.00 | 49.25 | -24.75 | 74.00 | 59.90 | 34.96 | 10.61 | 56.22 | --- | --- | Peak |
| 11 | 6124.00 | 50.01 | -23.99 | 74.00 | 58.90 | 35.89 | 11.78 | 56.56 | 100 | 0 | Peak |
| 12 | 8342.00 | 49.42 | -24.58 | 74.00 | 58.50 | 36.17 | 10.79 | 56.04 | --- | --- | Peak |
| 13 | 10476.00 | 49.03 | -24.97 | 74.00 | 55.84 | 37.77 | 10.66 | 55.24 | --- | --- | Peak |



| | | | |
|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------|----------|
| Test Mode : | Mode 2 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Vertical |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

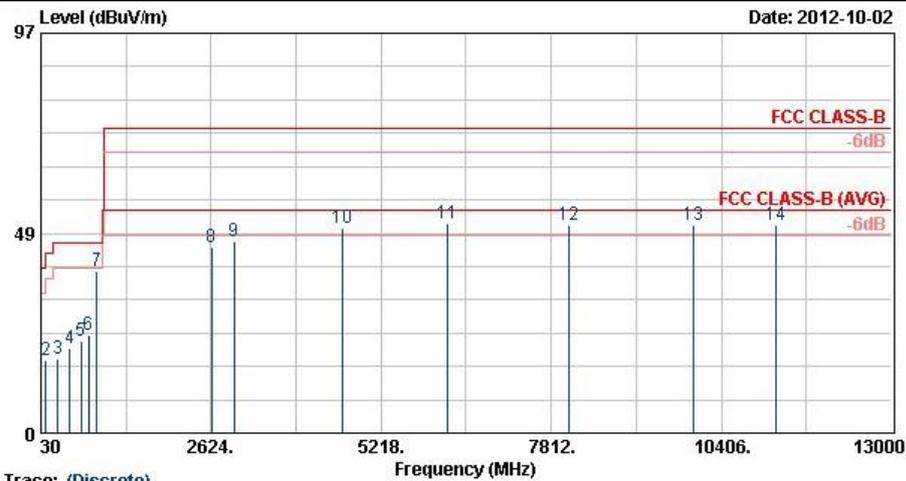


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT_120801 VERTICAL

| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|-----|----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|-----------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 @ | 31.08 | 33.07 | -6.93 | 40.00 | 45.94 | 18.02 | 0.65 | 31.54 | 133 | 156 | Peak |
| 2 | 96.69 | 27.79 | -15.71 | 43.50 | 47.72 | 10.48 | 1.09 | 31.49 | --- | --- | Peak |
| 3 | 265.44 | 15.75 | -30.25 | 46.00 | 31.86 | 13.22 | 1.80 | 31.14 | --- | --- | Peak |
| 4 | 432.30 | 19.65 | -26.35 | 46.00 | 31.99 | 16.53 | 2.27 | 31.14 | --- | --- | Peak |
| 5 | 546.40 | 22.80 | -23.20 | 46.00 | 32.43 | 18.94 | 2.54 | 31.11 | --- | --- | Peak |
| 6 | 647.90 | 22.32 | -23.68 | 46.00 | 31.37 | 19.20 | 2.80 | 31.05 | --- | --- | Peak |
| 7 | 881.40 | 33.84 | | | 41.09 | 20.61 | 3.32 | 31.17 | --- | --- | Peak |
| 8 | 2980.00 | 46.44 | -27.56 | 74.00 | 59.83 | 33.06 | 7.54 | 53.99 | --- | --- | Peak |
| 9 | 4892.00 | 49.24 | -24.76 | 74.00 | 59.92 | 34.84 | 10.19 | 55.71 | --- | --- | Peak |
| 10 | 5812.00 | 49.52 | -24.48 | 74.00 | 59.14 | 35.53 | 11.47 | 56.62 | 100 | 0 | Peak |
| 11 | 6980.00 | 49.34 | -24.66 | 74.00 | 58.95 | 36.20 | 11.06 | 56.87 | --- | --- | Peak |
| 12 | 8318.00 | 49.14 | -24.86 | 74.00 | 58.18 | 36.16 | 10.81 | 56.01 | --- | --- | Peak |
| 13 | 10454.00 | 48.67 | -25.33 | 74.00 | 55.52 | 37.76 | 10.66 | 55.26 | --- | --- | Peak |



| | | | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Horizontal |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Car Charger 12V) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

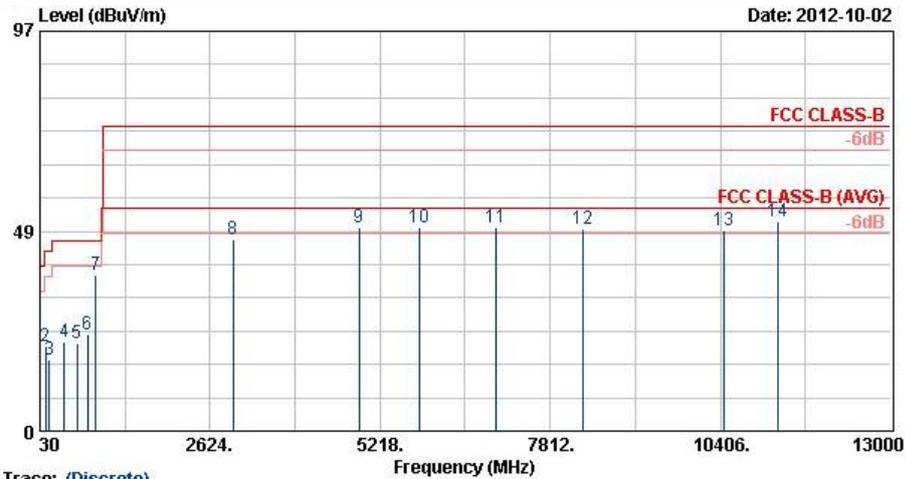


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT_120801 HORIZONTAL

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|-----|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | | | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 18.14 | -21.86 | 40.00 | 30.25 | 18.80 | 0.64 | 31.55 | 100 | 96 | Peak |
| 2 | 107.49 | 17.82 | -25.68 | 43.50 | 36.29 | 11.72 | 1.14 | 31.33 | --- | --- | Peak |
| 3 | 292.98 | 17.99 | -28.01 | 46.00 | 34.31 | 13.06 | 1.88 | 31.26 | --- | --- | Peak |
| 4 | 472.90 | 20.66 | -25.34 | 46.00 | 32.01 | 17.26 | 2.31 | 30.93 | --- | --- | Peak |
| 5 | 637.40 | 22.18 | -23.82 | 46.00 | 31.47 | 19.20 | 2.79 | 31.28 | --- | --- | Peak |
| 6 | 757.80 | 23.74 | -22.26 | 46.00 | 31.81 | 19.87 | 3.05 | 31.00 | --- | --- | Peak |
| 7 @ | 881.40 | 39.36 | | | 46.61 | 20.61 | 3.32 | 31.17 | --- | --- | Peak |
| 8 | 2628.00 | 45.22 | -28.78 | 74.00 | 59.61 | 32.66 | 6.88 | 53.93 | --- | --- | Peak |
| 9 | 2972.00 | 46.55 | -27.45 | 74.00 | 59.94 | 33.06 | 7.54 | 53.99 | --- | --- | Peak |
| 10 | 4628.00 | 49.65 | -24.35 | 74.00 | 59.81 | 34.95 | 10.10 | 55.22 | --- | --- | Peak |
| 11 | 6222.00 | 50.86 | -23.14 | 74.00 | 59.56 | 35.97 | 11.76 | 56.44 | 100 | 37 | Peak |
| 12 | 8078.00 | 50.62 | -23.38 | 74.00 | 59.33 | 36.11 | 10.95 | 55.77 | --- | --- | Peak |
| 13 | 9988.00 | 50.35 | -23.65 | 74.00 | 58.18 | 37.40 | 10.57 | 55.80 | --- | --- | Peak |
| 14 | 11244.00 | 50.50 | -23.50 | 74.00 | 55.60 | 38.20 | 10.90 | 54.20 | --- | --- | Peak |



| | | | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|---------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Vertical |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + Battery + USB Cable (Charging from Car Charger 12V) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

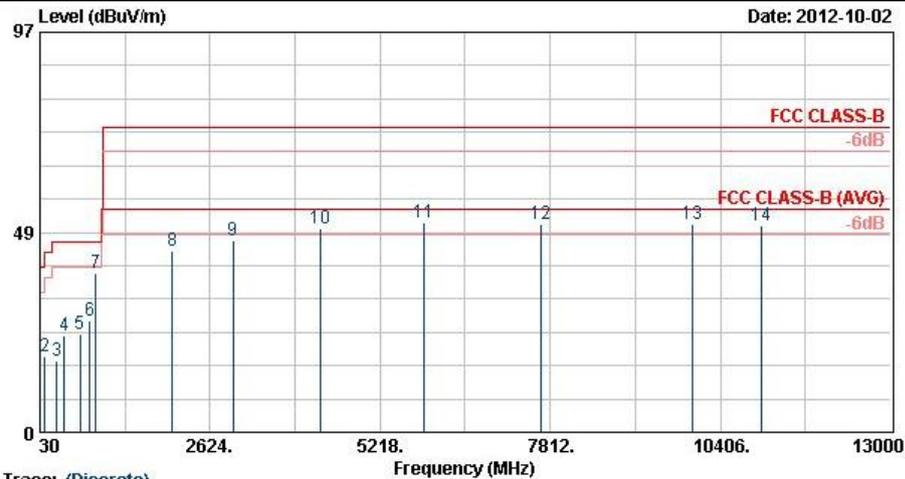


Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT_120801 VERTICAL

| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|-----|----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|-----------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 17.64 | -22.36 | 40.00 | 29.75 | 18.80 | 0.64 | 31.55 | 112 | 204 | Peak |
| 2 | 120.99 | 20.65 | -22.85 | 43.50 | 38.84 | 11.88 | 1.23 | 31.29 | --- | --- | Peak |
| 3 | 174.99 | 17.35 | -26.15 | 43.50 | 37.60 | 9.40 | 1.55 | 31.21 | --- | --- | Peak |
| 4 | 399.40 | 21.70 | -24.30 | 46.00 | 35.42 | 15.90 | 2.19 | 31.81 | --- | --- | Peak |
| 5 | 591.90 | 21.40 | -24.60 | 46.00 | 31.75 | 18.80 | 2.73 | 31.88 | --- | --- | Peak |
| 6 | 757.80 | 23.53 | -22.47 | 46.00 | 31.61 | 19.87 | 3.05 | 31.00 | --- | --- | Peak |
| 7 @ | 881.40 | 37.85 | | | 45.09 | 20.61 | 3.32 | 31.17 | --- | --- | Peak |
| 8 | 2980.00 | 46.44 | -27.56 | 74.00 | 59.83 | 33.06 | 7.54 | 53.99 | --- | --- | Peak |
| 9 | 4892.00 | 49.24 | -24.76 | 74.00 | 59.92 | 34.84 | 10.19 | 55.71 | --- | --- | Peak |
| 10 | 5812.00 | 49.52 | -24.48 | 74.00 | 59.14 | 35.53 | 11.47 | 56.62 | --- | --- | Peak |
| 11 | 6980.00 | 49.34 | -24.66 | 74.00 | 58.95 | 36.20 | 11.06 | 56.87 | --- | --- | Peak |
| 12 | 8318.00 | 49.14 | -24.86 | 74.00 | 58.18 | 36.16 | 10.81 | 56.01 | --- | --- | Peak |
| 13 | 10454.00 | 48.67 | -25.33 | 74.00 | 55.52 | 37.76 | 10.66 | 55.26 | --- | --- | Peak |
| 14 | 11292.00 | 50.85 | -23.15 | 74.00 | 55.84 | 38.23 | 10.93 | 54.15 | 100 | 41 | Peak |



| | | | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Test Mode : | Mode 4 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Horizontal |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Car Charger 24V) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

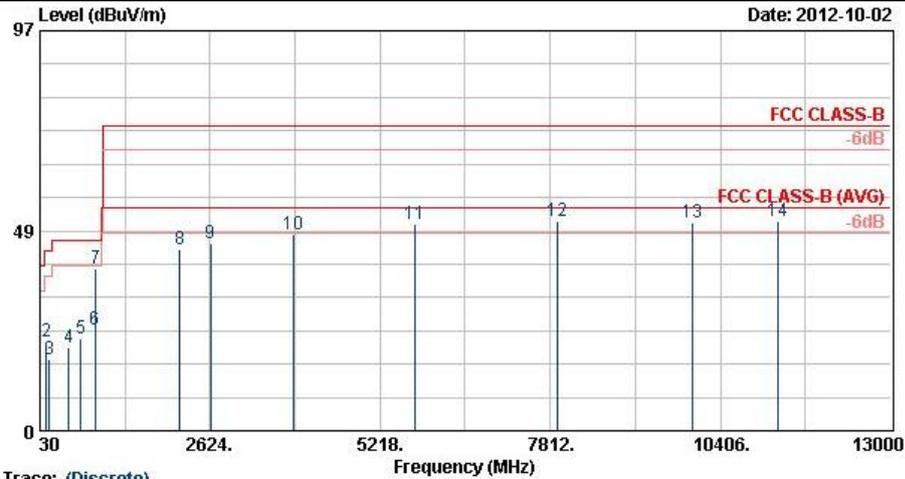


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT_120801 HORIZONTAL

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|----|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 18.39 | -21.61 | 40.00 | 30.50 | 18.80 | 0.64 | 31.55 | --- | --- | Peak |
| 2 | 106.68 | 18.22 | -25.28 | 43.50 | 36.79 | 11.68 | 1.14 | 31.38 | --- | --- | Peak |
| 3 | 292.98 | 17.45 | -28.55 | 46.00 | 33.77 | 13.06 | 1.88 | 31.26 | --- | --- | Peak |
| 4 | 399.40 | 23.34 | -22.66 | 46.00 | 37.06 | 15.90 | 2.19 | 31.81 | --- | --- | Peak |
| 5 | 645.80 | 23.82 | -22.18 | 46.00 | 32.92 | 19.20 | 2.80 | 31.09 | --- | --- | Peak |
| 6 | 785.80 | 27.20 | -18.80 | 46.00 | 35.88 | 19.90 | 3.06 | 31.63 | 100 | 206 | Peak |
| 7 | 881.40 | 38.65 | - | - | 45.90 | 20.62 | 3.32 | 31.19 | --- | --- | Peak |
| 8 | 2052.00 | 44.08 | -29.92 | 74.00 | 60.22 | 31.87 | 5.97 | 53.99 | --- | --- | Peak |
| 9 | 2972.00 | 46.55 | -27.45 | 74.00 | 59.94 | 33.06 | 7.54 | 53.99 | --- | --- | Peak |
| 10 | 4302.00 | 49.24 | -24.76 | 74.00 | 60.05 | 34.52 | 9.63 | 54.96 | --- | --- | Peak |
| 11 | 5886.00 | 50.84 | -23.16 | 74.00 | 60.22 | 35.63 | 11.64 | 56.65 | 100 | 44 | Peak |
| 12 | 7662.00 | 50.64 | -23.36 | 74.00 | 59.46 | 36.10 | 10.92 | 55.83 | --- | --- | Peak |
| 13 | 9988.00 | 50.35 | -23.65 | 74.00 | 58.18 | 37.40 | 10.57 | 55.80 | --- | --- | Peak |
| 14 | 11028.00 | 50.11 | -23.89 | 74.00 | 55.85 | 38.03 | 10.77 | 54.55 | --- | --- | Peak |



| | | | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|---------------------|----------|
| Test Mode : | Mode 4 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Vertical |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Car Charger 24V) + SIM 1 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |

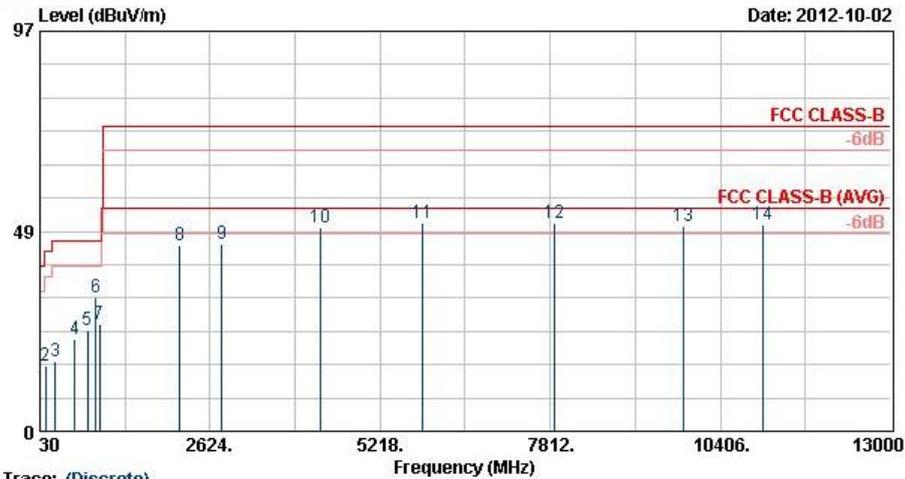


Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT_120601 VERTICAL

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|-----|----------|--------|------------|------------|------------|----------------|------------|---------------|---------|-----------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 18.10 | -21.90 | 40.00 | 30.21 | 18.80 | 0.64 | 31.55 | --- | --- | Peak |
| 2 | 122.88 | 21.78 | -21.72 | 43.50 | 39.99 | 11.84 | 1.24 | 31.29 | --- | --- | Peak |
| 3 | 174.99 | 17.41 | -26.09 | 43.50 | 37.67 | 9.40 | 1.55 | 31.21 | --- | --- | Peak |
| 4 | 472.90 | 20.03 | -25.97 | 46.00 | 31.39 | 17.26 | 2.31 | 30.93 | --- | --- | Peak |
| 5 | 658.40 | 22.19 | -23.81 | 46.00 | 31.36 | 19.20 | 2.82 | 31.18 | --- | --- | Peak |
| 6 | 871.90 | 24.63 | -21.37 | 46.00 | 31.85 | 20.52 | 3.29 | 31.03 | 100 | 200 | Peak |
| 7 @ | 881.40 | 39.35 | --- | --- | 46.60 | 20.62 | 3.32 | 31.19 | --- | --- | Peak |
| 8 | 2166.00 | 44.12 | -29.88 | 74.00 | 59.91 | 32.04 | 6.14 | 53.97 | --- | --- | Peak |
| 9 | 2636.00 | 45.49 | -28.51 | 74.00 | 59.88 | 32.66 | 6.88 | 53.93 | --- | --- | Peak |
| 10 | 3886.00 | 47.43 | -26.57 | 74.00 | 59.79 | 33.66 | 8.72 | 54.73 | --- | --- | Peak |
| 11 | 5740.00 | 50.02 | -23.98 | 74.00 | 59.80 | 35.44 | 11.39 | 56.60 | --- | --- | Peak |
| 12 | 7916.00 | 50.81 | -23.19 | 74.00 | 59.48 | 36.10 | 10.97 | 55.73 | --- | --- | Peak |
| 13 | 9974.00 | 50.40 | -23.60 | 74.00 | 58.27 | 37.38 | 10.57 | 55.81 | --- | --- | Peak |
| 14 | 11292.00 | 50.85 | -23.15 | 74.00 | 55.84 | 38.23 | 10.93 | 54.15 | 100 | 341 | Peak |



| | | | |
|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Test Mode : | Mode 5 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Horizontal |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2 | | |
| Remark : | #6 is system simulator signal which can be ignored. | | |

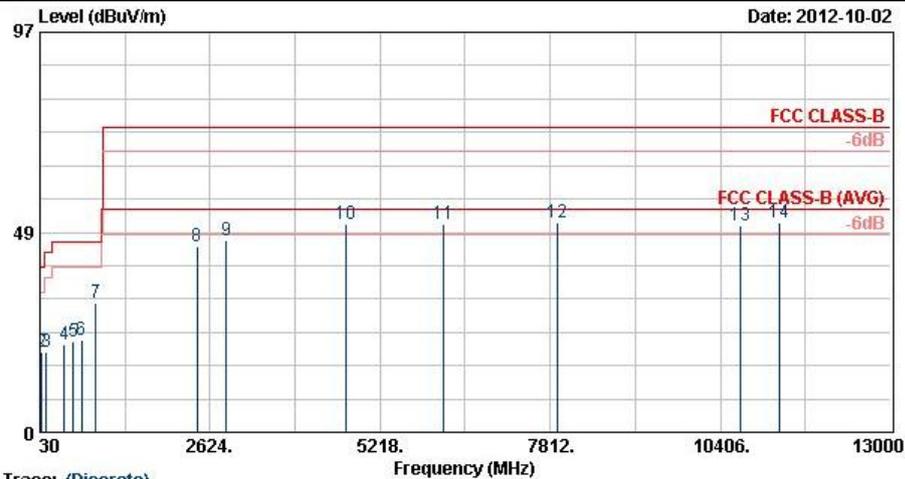


Trace: (Discrete)
 Site : 03CH06-RY
 Condition : FCC CLASS-B HF-ANT 120R01 HORIZONTAL

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|-----|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| | | | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 17.56 | -22.44 | 40.00 | 29.67 | 18.80 | 0.64 | 31.55 | --- | --- | Peak |
| 2 | 112.89 | 15.87 | -27.63 | 43.50 | 34.15 | 11.80 | 1.17 | 31.25 | --- | --- | Peak |
| 3 | 261.93 | 17.11 | -28.89 | 46.00 | 32.91 | 13.54 | 1.79 | 31.13 | --- | --- | Peak |
| 4 | 561.80 | 22.23 | -23.77 | 46.00 | 32.06 | 18.88 | 2.59 | 31.30 | --- | --- | Peak |
| 5 | 756.40 | 24.61 | -21.39 | 46.00 | 32.65 | 19.86 | 3.05 | 30.96 | --- | --- | Peak |
| 6 @ | 881.40 | 32.57 | | | 39.81 | 20.61 | 3.32 | 31.17 | --- | --- | Peak |
| 7 | 934.90 | 25.86 | -20.14 | 46.00 | 32.23 | 20.75 | 3.36 | 30.47 | 100 | 138 | Peak |
| 8 | 2166.00 | 44.96 | -29.04 | 74.00 | 60.75 | 32.04 | 6.14 | 53.97 | --- | --- | Peak |
| 9 | 2804.00 | 45.38 | -28.62 | 74.00 | 59.27 | 32.86 | 7.21 | 53.96 | --- | --- | Peak |
| 10 | 4302.00 | 49.24 | -24.76 | 74.00 | 60.05 | 34.52 | 9.63 | 54.96 | --- | --- | Peak |
| 11 | 5862.00 | 50.34 | -23.66 | 74.00 | 59.78 | 35.61 | 11.60 | 56.64 | --- | --- | Peak |
| 12 | 7886.00 | 50.50 | -23.50 | 74.00 | 59.18 | 36.10 | 10.96 | 55.75 | 100 | 30 | Peak |
| 13 | 9852.00 | 49.89 | -24.11 | 74.00 | 58.00 | 37.21 | 10.57 | 55.88 | --- | --- | Peak |
| 14 | 11064.00 | 50.09 | -23.91 | 74.00 | 55.75 | 38.05 | 10.79 | 54.49 | --- | --- | Peak |



| | | | |
|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------|----------|
| Test Mode : | Mode 5 | Temperature : | 23~25°C |
| Test Engineer : | Kai Wang | Relative Humidity : | 50~52% |
| Test Distance : | 3m | Polarization : | Vertical |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + MP3 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2 | | |
| Remark : | #7 is system simulator signal which can be ignored. | | |



Site : 03CH06-HY
Condition : FCC CLASS-B HF-ANT 120801 VERTICAL

| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|-----|----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|-----------|--------|
| | MHz | dBUV/m | dB | dBUV/m | dBUV | dB/m | dB | dB | cm | deg | |
| 1 @ | 31.89 | 31.36 | -8.64 | 40.00 | 44.99 | 17.24 | 0.66 | 31.53 | 100 | 302 | Peak |
| 2 | 62.94 | 19.31 | -20.69 | 40.00 | 43.64 | 6.24 | 0.89 | 31.46 | --- | --- | Peak |
| 3 | 128.28 | 19.34 | -24.16 | 43.50 | 37.57 | 11.80 | 1.26 | 31.29 | --- | --- | Peak |
| 4 | 399.40 | 21.21 | -24.79 | 46.00 | 34.92 | 15.90 | 2.19 | 31.81 | --- | --- | Peak |
| 5 | 535.90 | 22.11 | -23.89 | 46.00 | 32.45 | 18.45 | 2.53 | 31.31 | --- | --- | Peak |
| 6 | 661.90 | 22.45 | -23.55 | 46.00 | 31.68 | 19.18 | 2.82 | 31.24 | --- | --- | Peak |
| 7 | 881.40 | 31.33 | | | 38.57 | 20.61 | 3.32 | 31.17 | --- | --- | Peak |
| 8 | 2422.00 | 44.96 | -29.04 | 74.00 | 59.99 | 32.40 | 6.49 | 53.91 | --- | --- | Peak |
| 9 | 2876.00 | 46.38 | -27.62 | 74.00 | 60.07 | 32.94 | 7.35 | 53.97 | --- | --- | Peak |
| 10 | 4700.00 | 50.44 | -23.56 | 74.00 | 60.77 | 34.92 | 10.12 | 55.37 | --- | --- | Peak |
| 11 | 6190.00 | 50.37 | -23.63 | 74.00 | 59.13 | 35.95 | 11.77 | 56.48 | --- | --- | Peak |
| 12 | 7916.00 | 50.81 | -23.19 | 74.00 | 59.48 | 36.10 | 10.97 | 55.73 | --- | --- | Peak |
| 13 | 10710.00 | 50.04 | -23.96 | 74.00 | 56.40 | 37.88 | 10.71 | 54.95 | --- | --- | Peak |
| 14 | 11308.00 | 50.86 | -23.14 | 74.00 | 55.79 | 38.24 | 10.94 | 54.12 | 100 | 303 | Peak |



4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|--------------|------------------------|-------------|-----------------|------------------|---------------|---------------|-----------------------|
| EMI TEST RECEIVER | R&S | ESCI 7 | 100724 | 9kHz ~ 7GHz | Sep. 03, 2012 | Oct. 28, 2012 | Sep. 02, 2013 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100081 | 9KHz ~ 30MHz | Dec. 09, 2011 | Oct. 28, 2012 | Dec. 08, 2012 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100080 | 9KHz ~ 30MHz | Dec. 06, 2011 | Oct. 28, 2012 | Dec. 05, 2012 | Conduction (CO05-HY) |
| AC Power Source | APC | APC-1000W | N/A | N/A | N/A | Oct. 28, 2012 | N/A | Conduction (CO05-HY) |
| Thermometer | Testo | 608-H1 | 34913912 | N/A | Dec. 13, 2011 | Oct. 28, 2012 | Dec. 12, 2012 | Conduction (CO05-HY) |
| Test Software | N/A | EMC32 | 8.40.0 | N/A | N/A | Oct. 28, 2012 | N/A | Conduction (CO05-HY) |
| LF Cable | Shuner | RG-402 | N/A | N/A | Oct. 07, 2012 | Oct. 28, 2012 | Nov. 06, 2012 | Conduction (CO05-HY) |
| System Simulator | R&S | CMU200 | 117995 | N/A | Jul. 28, 2011 | Oct. 28, 2012 | Jul. 27, 2013 | Conduction (CO05-HY) |
| Spectrum Analyzer | Agilent | E4408B | MY44211030 | 9KHz ~ 26.5GHz | Nov. 23, 2011 | Oct. 02, 2012 | Nov. 22, 2012 | Radiation (03CH06-HY) |
| Spectrum Analyzer | R&S | FSP30 | 101352 | 9KHz-30GHz | Nov. 01, 2011 | Oct. 02, 2012 | Oct. 31, 2012 | Radiation (03CH06-HY) |
| EMI Test Receiver | R&S | ESVS10 | 834468/003 | 20MHz ~ 1000MHz | May 04, 2012 | Oct. 02, 2012 | May. 03, 2013 | Radiation (03CH06-HY) |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2885 | 30MHz ~ 2GHz | Oct. 22, 2011 | Oct. 02, 2012 | Oct. 21, 2012 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna | EMCO | 3117 | 00066583 | 1GHz ~ 18GHz | Aug. 01, 2012 | Oct. 02, 2012 | Jul. 31, 2013 | Radiation (03CH06-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 15GHz ~ 40GHz | Sep. 28, 2012 | Oct. 02, 2012 | Sep. 27, 2013 | Radiation (03CH06-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A01917 | 1GHz ~ 26.5GHz | Apr. 13, 2012 | Oct. 02, 2012 | Apr. 12, 2013 | Radiation (03CH06-HY) |
| Amplifier | Agilent | 310N | 186713 | 9KHz ~ 1GHz | Apr. 11, 2012 | Oct. 02, 2012 | Apr. 10, 2013 | Radiation (03CH06-HY) |
| Pre Amplifier | EMCI | EMC051845 | SN980048 | 1GHz ~ 18GHz | Jul. 21, 2012 | Oct. 02, 2012 | Jul. 20, 2013 | Radiation (03CH06-HY) |
| Pre Amplifier | MITEQ | AMF-7D-00101800-30-10P | 159087 | 1GHz~18GHz | Feb. 27, 2012 | Oct. 02, 2012 | Feb. 26, 2013 | Radiation (03CH06-HY) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|------------------|--------------|----------------------------------|---------------------|-------------------|------------------|---------------|---------------|-----------------------|
| Filter | WAINWRIGHT | WLKS1500-8SS | SN2 | 1.5G LPF | Dec.29 , 2011 | Oct. 02, 2012 | Dec.28 , 2012 | Radiation (03CH06-HY) |
| Filter | WAINWRIGHT | WRCGV2400/2483-2390/2493-35/10SS | N/A | 2.4G Notch Filter | Dec.30 , 2011 | Oct. 02, 2012 | Dec.29 , 2012 | Radiation (03CH06-HY) |
| Filter | Microwave | H01G13G1 | SN360979 | 1G HPF | Dec. 27, 2011 | Oct. 02, 2012 | Dec.26 , 2012 | Radiation (03CH06-HY) |
| Thermometer | Wisewind | 410 | BU5004 | N/A | Nov.22 , 2011 | Oct. 02, 2012 | Nov.21 , 2012 | Radiation (03CH06-HY) |
| Test Software | Audix | E3 | Version 6.2009-8-24 | N/A | N/A | Oct. 02, 2012 | N/A | Radiation (03CH06-HY) |
| Turn Table | INN-CO | DS2000 | 420/650/00 | 0 ~ 360 degree | N/A | Oct. 02, 2012 | N/A | Radiation (03CH06-HY) |
| Antenna Mast | MF | MF-7802 | MF780208212 | 1 m ~ 4 m | N/A | Oct. 02, 2012 | N/A | Radiation (03CH06-HY) |
| RF Cable | Huber+Suhner | RG 142 | NA | 30M~1G | Dec.05 , 2011 | Oct. 02, 2012 | Dec.04 ,2012 | Radiation (03CH06-HY) |
| RF Cable | Huber+Suhner | SF104 | NA | 1G~26.5G | Dec.05 , 2011 | Oct. 02, 2012 | Dec.04 ,2012 | Radiation (03CH06-HY) |
| System Simulator | R&S | CMU200 | 117995 | N/A | Jul. 28, 2011 | Oct. 02, 2012 | Jul. 27, 2013 | Radiation (03CH06-HY) |

Note: Test equipment calibration is traceable to the procedure of ISO17025.



5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)

| | |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.26 |
|-------------------------------------------------------------------------|------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.54 |
|-------------------------------------------------------------------------|------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

| | |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.72 |
|-------------------------------------------------------------------------|------|