

DDM Brands LLC

GSM Mobile Phone

Main Model: CHICO2CYZ202A

Serial Model: CHICO2CYZ202XX; CHICO2YZ201XX

31th March, 2012

Report No.: 12070010-FCC-R1

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

| | | |
|---|---|---|
|  |  |  |
| Back Huang Compliance Engineer | Alex Liu Technical Manager | |

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Test result presented in this test report is applicable to the representative sample only.



**SIEMIC, INC.**

Title: RF Test Report for GSM Mobile Phone
 Main Model: CHICO2CYZ202A
 Serial Model: CHICO2CYZ202XX; CHICO2YZ201XX
 To: FCC Part 22(H) & FCC Part 24(E): 2011

Report No: 12070010-FCC-R1
 Issue Date: 31th March, 2012
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| USA | FCC, A2LA | EMC , RF/Wireless , Telecom |
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| Mexico | NOM, COFETEL, Caniety | Safety, EMC , RF/Wireless, Telecom |
| Europe | A2LA, NIST | EMC, RF, Telecom , Safety |

Accreditations for Product Certifications

| Country/Region | Accreditation Body | Scope |
|----------------|--------------------|-----------------------|
| USA | FCC TCB, NIST | EMC , RF , Telecom |
| Canada | IC FCB , NIST | EMC , RF , Telecom |
| Singapore | iDA, NIST | EMC , RF , Telecom |
| EU | NB | EMC & R&TTE Directive |
| Japan | MIC, (RCB 208) | RF , Telecom |
| Hong Kong | OFTA (US002) | RF , Telecom |



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Accessing global markets

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1. EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programmed was to demonstrate compliance of the DDM Brands LLC GSM Mobile Phone and model: CHICO2CYZ202A against the current Stipulated Standards. The GSM Mobile Phone has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2011.

EUT Information

EUT

Description : GSM Mobile Phone

Main Model : CHICO2CYZ202A

CHICO2CYZ202XX; CHICO2YZ201XX

Serial Model : (The difference between Main model and Serial model please refer to the DECLARATION OF SIMILARITY provided by applicant.)

Antenna Gain : **GSM850: 1 dBi**
PCS1900: 1 dBi

Adapter:

Model: YW12

Input: AC100-240V 50/60Hz 0.15A

Output: DC 5.0V 500mA

Input Power : **Li-ion Battery:**
Model: YB100A
Capacity: 550mAh
Nominal Voltage: 3.7V
Charging Voltage Limit: 4.2V

Maximum Conducted Peak Power to Antenna : **GSM850: 32.09 dBm**
PCS1900: 29.82 dBm

Maximum Radiated ERP/EIRP : **GSM850: 28.45 dBm / ERP**
PCS1900: 27.41 dBm / EIRP

Classification Per Stipulated Test Standard : **FCC Part 22(H) & FCC Part 24(E): 2011**

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2. TECHNICAL DETAILS

| | |
|--|--|
| Purpose | Compliance testing of GSM Mobile Phone with stipulated standard |
| Applicant / Client | DDM Brands LLC 1612 NW, 84 TH Ave. Miami, Florida, U.S.A 33126 |
| Manufacturer | DDM Brands LLC B-602,HengYu Center, NanShan, ShenZhen, China518054 |
| Laboratory performing the tests | SIEMIC Nanjing (China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email:info@siemic.com |
| Test report reference number | 12070010-FCC-R1 |
| Date EUT received | 20th March, 2012 |
| Standard applied | FCC Part 22(H) & FCC Part 24(E): 2011 |
| Dates of test | 22th March, 2012 to 24th March, 2012 |
| No of Units | #1 |
| Equipment Category | PCE |
| Trade Name | YEZZ |
| RF Operating Frequency (ies) | GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz |
| Number of Channels | 300CH (PCS1900) and 125CH (GSM850) |
| Modulation | GSM / GPRS: GMSK |
| GPRS Multi-slot class | 8/10 |
| FCC ID | A4JCHICO2XYZ20XXX |

3. MODIFICATION

NONE

4. TEST SUMMARY

The product was tested in accordance with the following specifications.
 All testing has been performed according to below product classification:

PCE

Test Results Summary

| Test Standard | Description | Product Class | Pass / Fail |
|--|--|---------------|-------------|
| § 1.1307, § 2.1093 | RF Exposure (SAR) | See Above | Pass |
| §2.1046; § 22.913 (a); § 24.232 (c) | RF Output Power | See Above | Pass |
| § 2.1047 | Modulation Characteristics | See Above | N/A |
| § 2.1049; § 22.905 § 22.917; § 24.238 | 99% & -26 dB Occupied Bandwidth | See Above | Pass |
| § 2.1051, § 22.917 (a); § 24.238 (a) | Spurious Emissions at Antenna Terminal | See Above | Pass |
| § 2.1053 § 22.917 (a); § 24.238 (a) | Field Strength of Spurious Radiation | See Above | Pass |
| § 22.917 (a); § 24.238 (a) | Out of band emission, Band Edge | See Above | Pass |
| § 2.1055 § 22.355; § 24.235 | Frequency stability vs. temperature Frequency stability vs. voltage | See Above | Pass |

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different.

5. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §1.1307, §2.1093- RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;
please refer to SIEMIC SAR Report: 12070010-H-V1

5.2 §2.1046 ; §22.913 (a); §24.232 (c)- RF Output Power

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.
3. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 23°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
4. Test date : 22th March , 2012
Tested By : Back Huang

Procedures:

For Conducted Power:

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different test mode.

For ERP/EIRP:

1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \log_{10} (\text{power out in Watts})$

Test Result: Pass

Remark: Conducted Burst Average power for reporting purposes only



Conducted Power

| Burst Average Power (dBm) | | | | | | | |
|---|--------|-------|--------------|------------------------|--------|-------|--------------|
| Band | GSM850 | | | GSM1900 | | | |
| Channel | 128 | 190 | 251 | Tune up Power tolerant | 512 | 661 | 810 |
| Frequency (MHz) | 824.2 | 836.6 | 848.8 | / | 1850.2 | 1880 | 1909.8 |
| GSM Voice (1 uplink) | 31.83 | 31.97 | 32.09 | 32±2 | 29.49 | 29.81 | 29.82 |
| GPRS Multi-Slot Class 8 (1 uplink) | 31.98 | 31.76 | 31.68 | 32±2 | 29.06 | 29.58 | 29.60 |
| GPRS Multi-Slot Class 10 (2 uplink) | 31.95 | 31.74 | 31.65 | 30±2 | 29.03 | 29.56 | 29.58 |
| Remark : GPRS, CS1 coding scheme. Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link | | | | | | | |

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.

ERP & EIRP (worst case)

ERP for Cellular Band (Part 22H)

| Frequency (MHz) | Substituted level (dBm) | Antenna Polarization | Factors (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|-------------------------|----------------------|--------------|----------------------|-------------|
| 824.20 | 29.17 | V | -1.20 | 27.97 | 38.45 |
| 824.20 | 26.92 | H | -1.20 | 25.72 | 38.45 |
| 836.60 | 29.28 | V | -1.20 | 28.08 | 38.45 |
| 836.60 | 27.06 | H | -1.20 | 25.86 | 38.45 |
| 848.80 | 29.65 | V | -1.20 | 28.45 | 38.45 |
| 848.80 | 27.14 | H | -1.20 | 25.94 | 38.45 |

EIRP for PCS Band (Part 24E)

| Frequency (MHz) | Substituted level (dBm) | Antenna Polarization | Factors (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|-------------------------|----------------------|--------------|----------------------|-------------|
| 1850.20 | 20.89 | V | 6.30 | 27.19 | 33.00 |
| 1850.20 | 17.82 | H | 6.30 | 24.12 | 33.00 |
| 1880.00 | 21.06 | V | 6.30 | 27.36 | 33.00 |
| 1880.00 | 17.91 | H | 6.30 | 24.21 | 33.00 |
| 1909.80 | 21.11 | V | 6.30 | 27.41 | 33.00 |
| 1909.80 | 17.92 | H | 6.30 | 24.22 | 33.00 |

Note: Factors= Antenna Gain Correction-Cable Loss

5.3 §2.1047 - Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

5.4 §2.1049, §22.917, §22.905 & §24.238 - Occupied Bandwidth

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyser was connected to the antenna terminal.

| | | | |
|----|--------------------------|----------------------|----------|
| 2. | Environmental Conditions | Temperature | 23°C |
| | | Relative Humidity | 50% |
| | | Atmospheric Pressure | 1019mbar |

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.

4. Test date : 23th March , 2012

Tested By : Back Huang

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.

Test Results: Pass

Cellular Band (Part 22H)

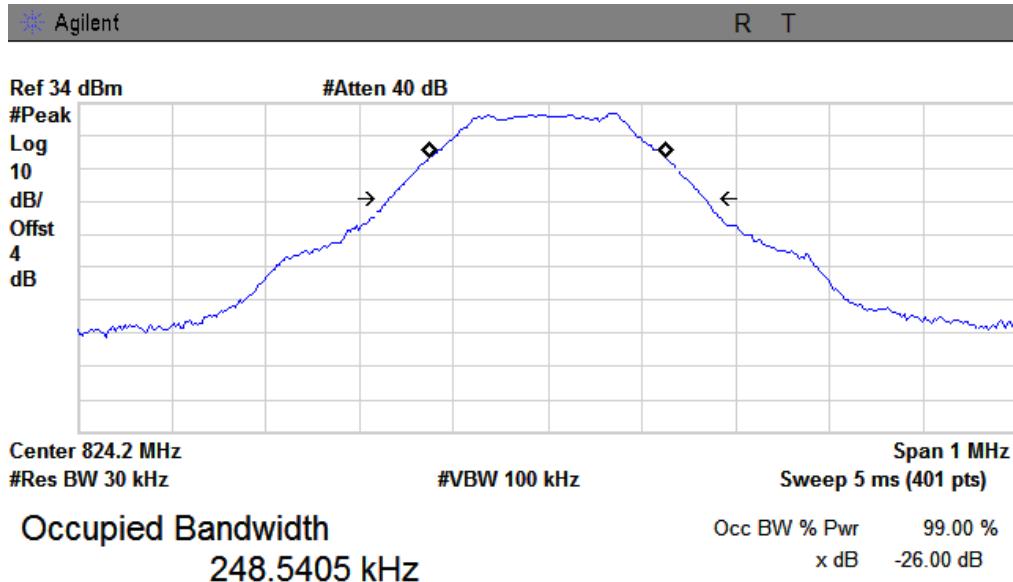
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 26 dB Bandwidth (kHz) |
|---------|-----------------|------------------------------|-----------------------|
| 128 | 824.2 | 248.5405 | 335.393 |
| 190 | 836.6 | 249.2403 | 334.414 |
| 251 | 848.8 | 250.2049 | 336.912 |

PCS Band (Part 24E)

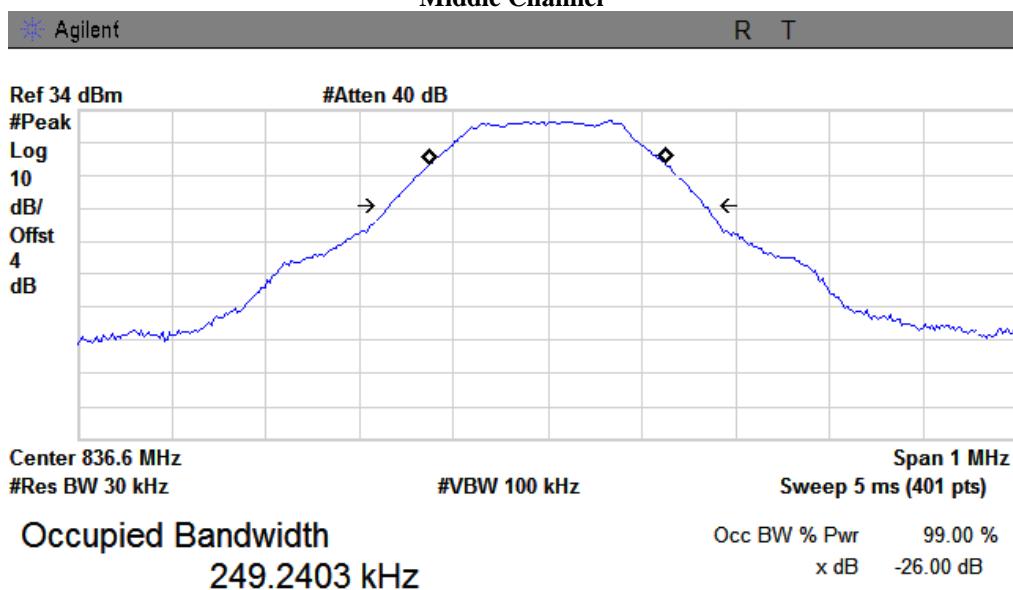
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 26 dB Bandwidth (kHz) |
|---------|-----------------|------------------------------|-----------------------|
| 512 | 1850.2 | 249.6480 | 336.796 |
| 661 | 1880.0 | 249.7862 | 337.295 |
| 810 | 1909.8 | 250.0135 | 336.519 |

Please refer to the following plots.

Cellular Band (Part 22H)

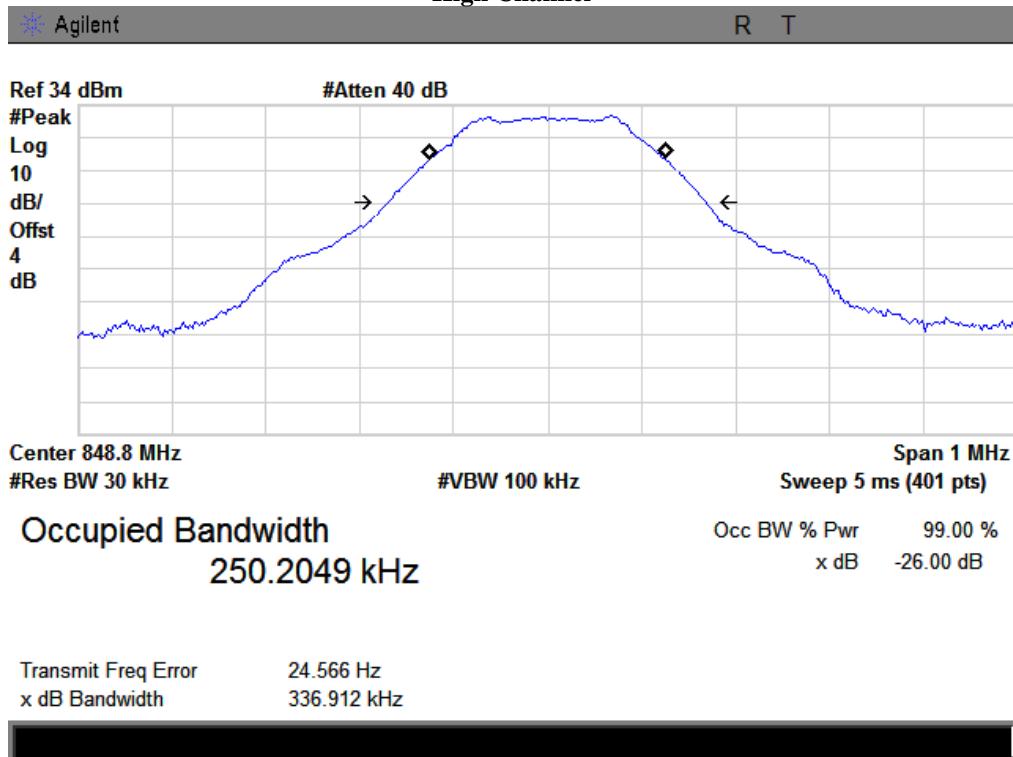
99% Occupied Bandwidth & 26 dB Bandwidth**Low Channel**

Transmit Freq Error -19.830 Hz
 x dB Bandwidth 335.393 kHz

Middle Channel

Transmit Freq Error 287.924 Hz
 x dB Bandwidth 334.414 kHz

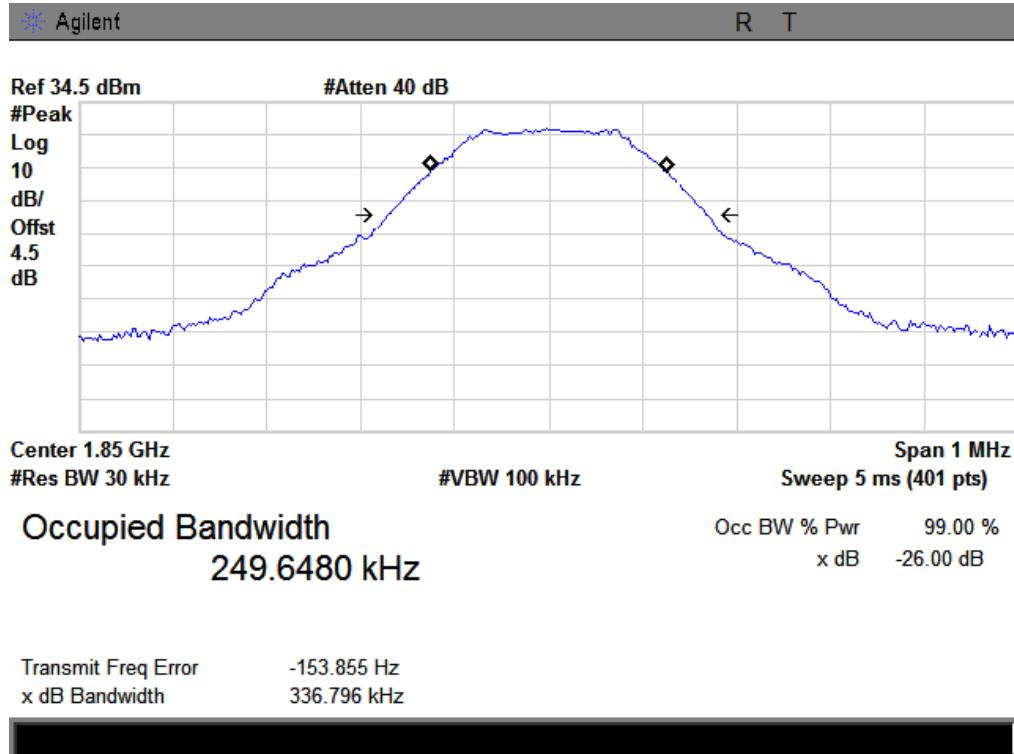
High Channel



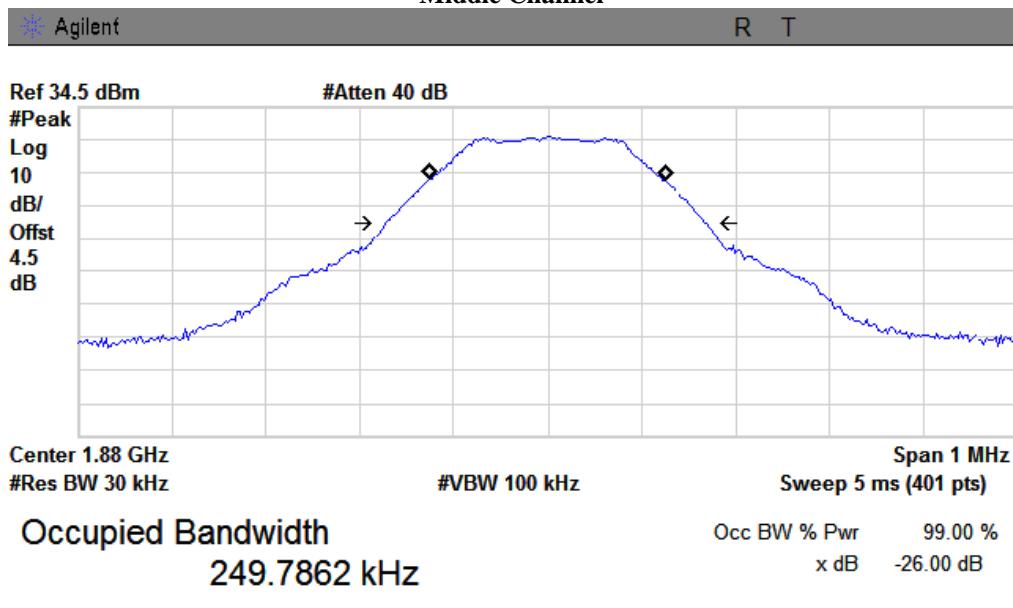
PCS Band (Part 24E)

99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel

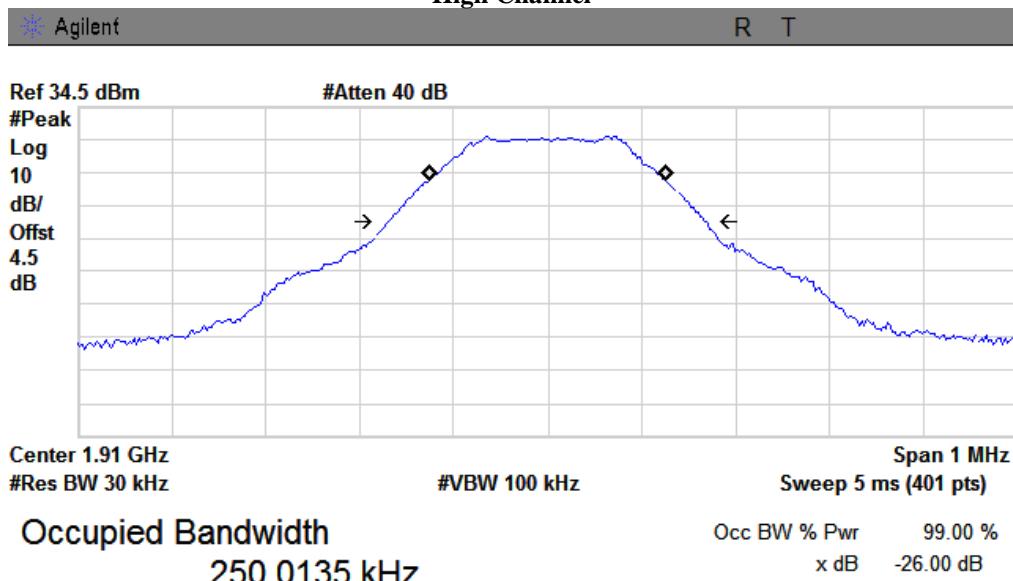


Middle Channel



Transmit Freq Error -590.757 Hz
x dB Bandwidth 337.295 kHz

High Channel



Transmit Freq Error -736.551 Hz
x dB Bandwidth 336.519 kHz

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5.5 §2.1051, §22.917(a) & §24.238(a) - Spurious Emissions at Antenna Terminals

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.

3. Environmental Conditions Temperature 23°C
 Relative Humidity 50%
 Atmospheric Pressure 1019mbar

4. Test date : 23th March , 2012

Tested By : Back Huang

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Procedures:

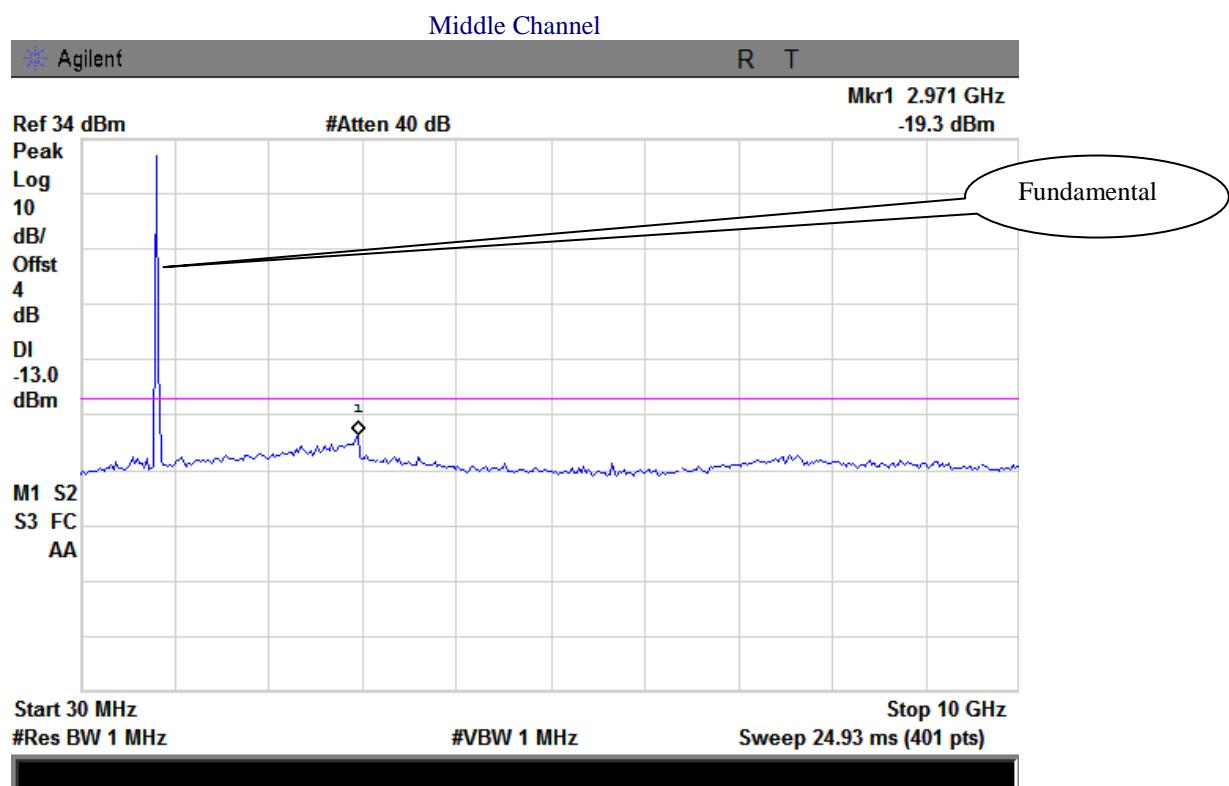
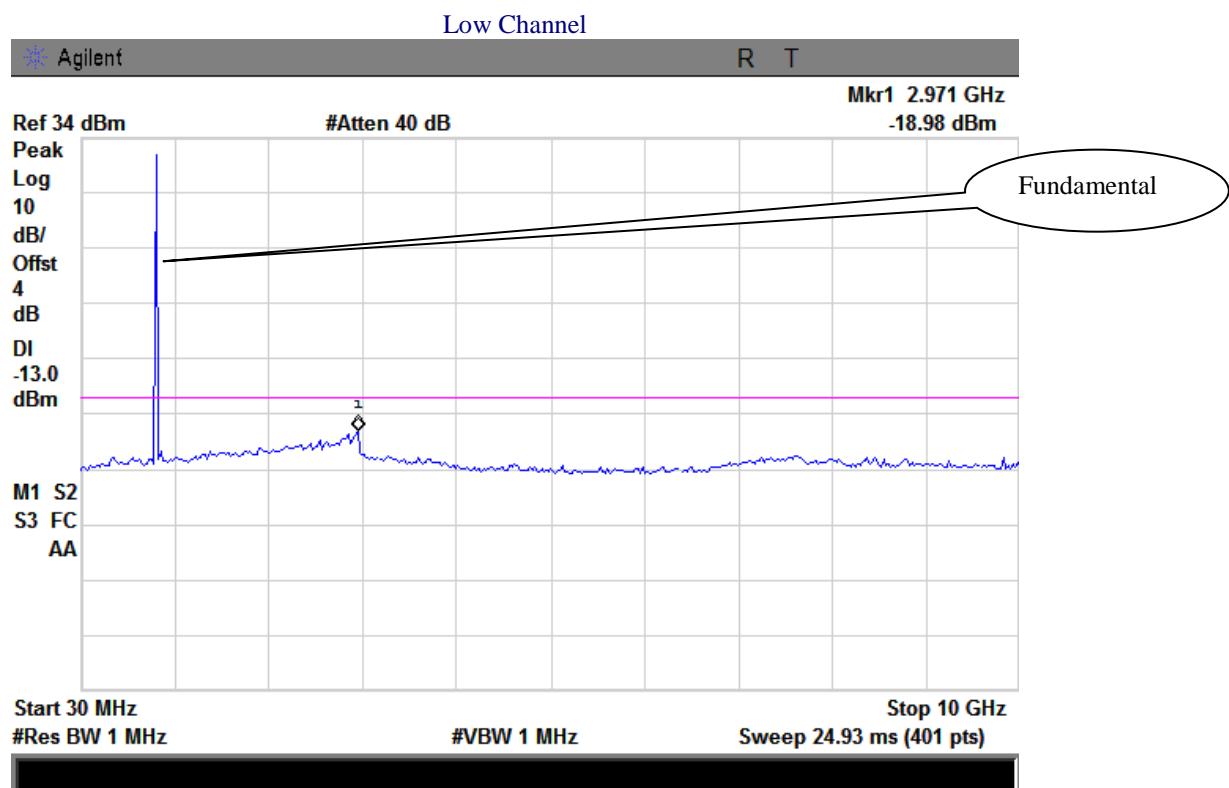
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

Test Result: Pass

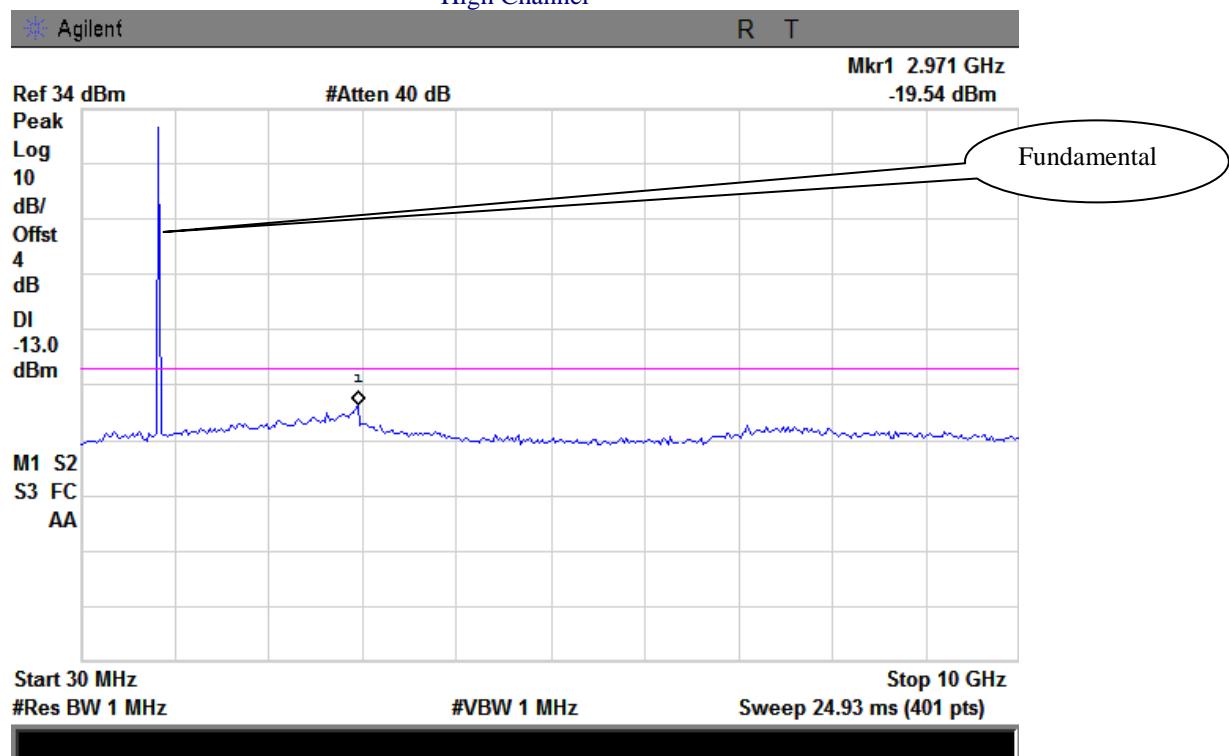
Refer to the attached plots.

Cellular Band (Part 22H)

30MHz-10G – GSM850



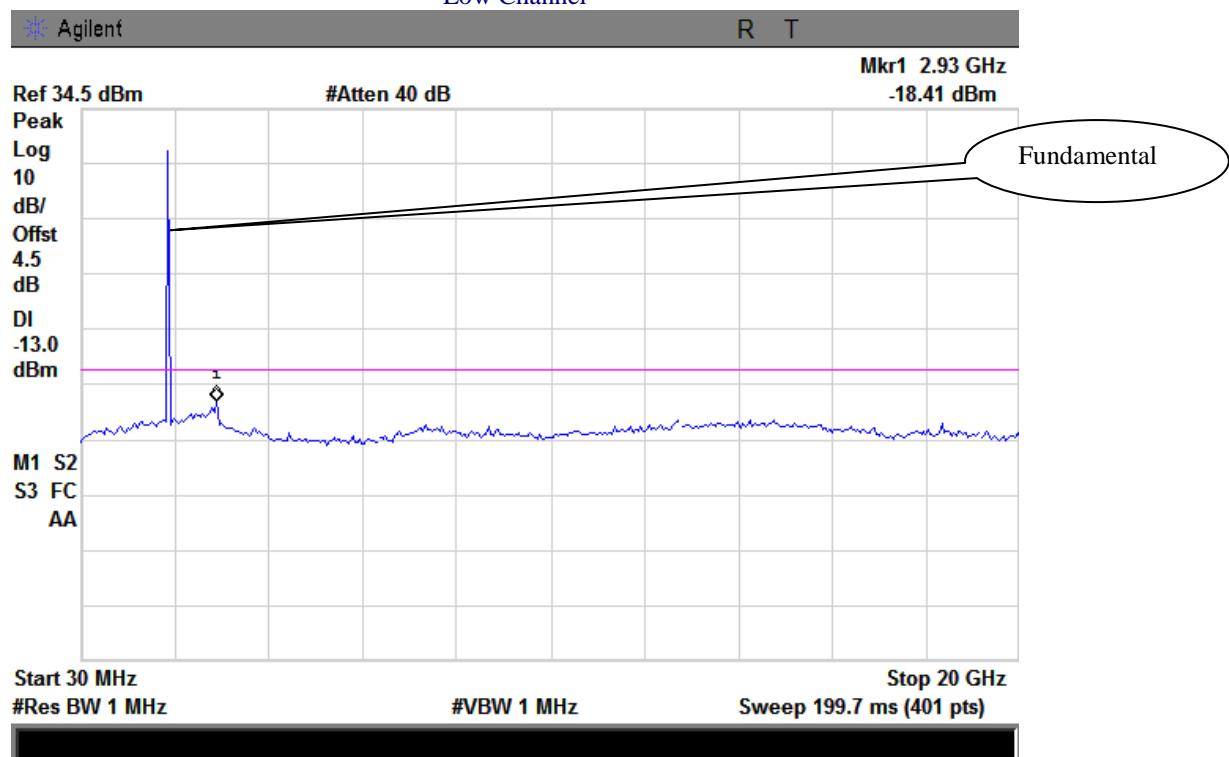
High Channel



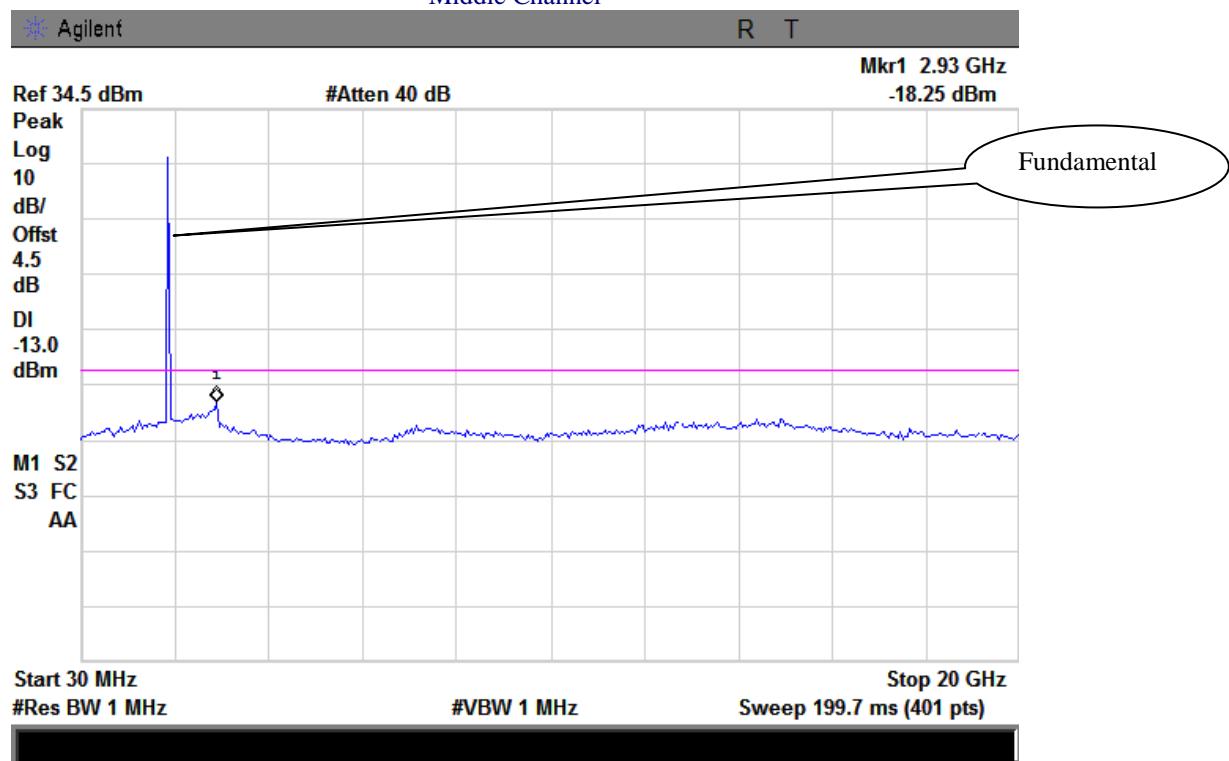
PCS Band (Part24E)

30MHz-20G – PCS1900

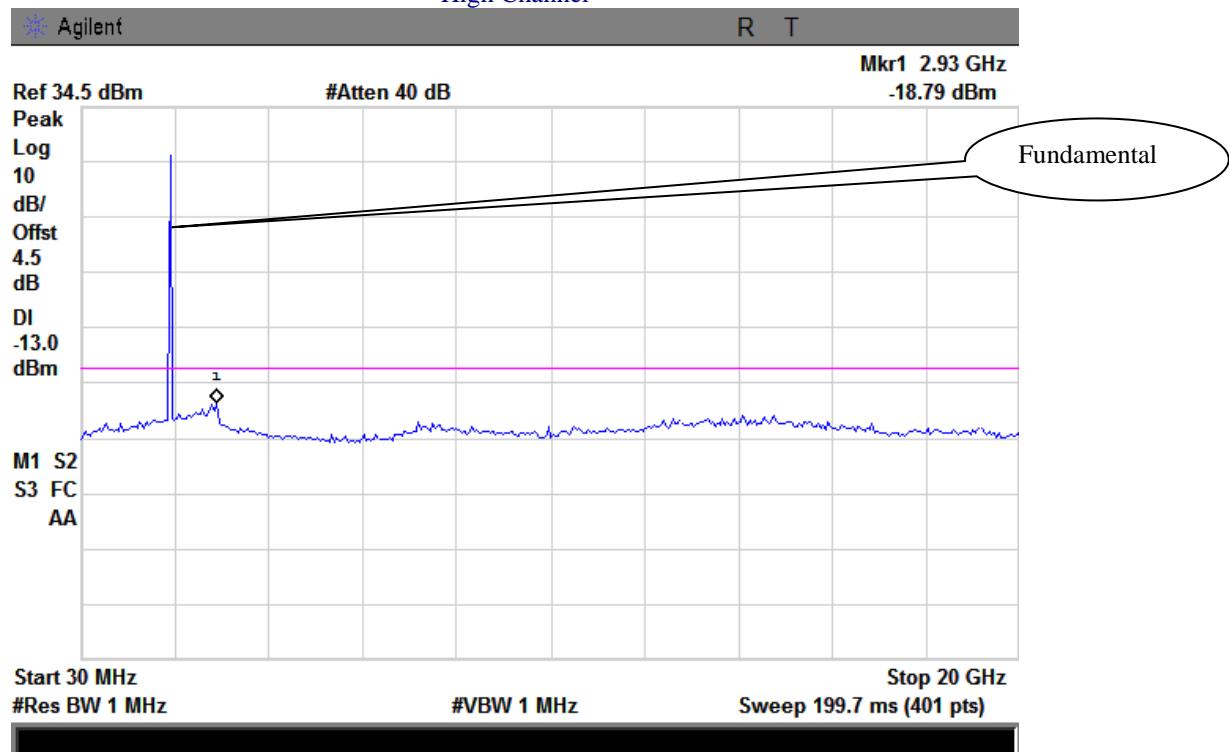
Low Channel



Middle Channel



High Channel





5.6 §2.1053, §22.917 & §24.238 - Spurious Radiated Emissions

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1GHz – 40GHz is $\pm 6.0\text{dB}$ (for EUTs $< 0.5\text{m} \times 0.5\text{m} \times 0.5\text{m}$).
4. Environmental Conditions Temperature 23°C
 Relative Humidity 50%
 Atmospheric Pressure 1019mbar
5. Test date : 24th March , 2012
Tested By : Back Huang

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

Procedures:

Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to 10th harmonic of the operating frequency.

Sample Calculation:

EUT Field Strength = Raw Amplitude (dB μ V/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)

Test Result: Pass

Cellular Band (Part 22H)

Low channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|--------------------|-------------|----------------|------------------------------|-----------------|----------------|-------------------------|-------------|-------------|
| 375.16 | -51.27 | 141 | 1.2 | V | 0 | 0.47 | 0 | -51.74 | -13 | -38.74 |
| 531.27 | -52.86 | 188 | 1.1 | H | 0 | 0.52 | 0 | -53.38 | -13 | -40.38 |
| 1648.4 | -26.13 | 207 | 1.2 | V | 6.2 | 0.84 | 0 | -20.77 | -13 | -7.77 |
| 1648.4 | -31.29 | 162 | 1.2 | H | 6.2 | 0.84 | 0 | -25.93 | -13 | -12.93 |

Middle channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|--------------------|-------------|----------------|------------------------------|-----------------|----------------|-------------------------|-------------|-------------|
| 375.83 | -51.68 | 248 | 1.2 | V | 0 | 0.47 | 0 | -52.15 | -13 | -39.15 |
| 621.32 | -52.87 | 187 | 1.1 | H | 0 | 0.54 | 0 | -53.41 | -13 | -40.41 |
| 1673.2 | -26.02 | 223 | 1.1 | V | 6.2 | 0.84 | 0 | -20.66 | -13 | -7.66 |
| 1673.2 | -31.11 | 212 | 1.1 | H | 6.2 | 0.84 | 0 | -25.75 | -13 | -12.75 |

High channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|--------------------|-------------|----------------|------------------------------|-----------------|----------------|-------------------------|-------------|-------------|
| 283.78 | -52.19 | 87 | 1.1 | V | 0 | 0.45 | 0 | -52.64 | -13 | -39.64 |
| 413.88 | -52.87 | 138 | 1.1 | H | 0 | 0.48 | 0 | -53.35 | -13 | -40.35 |
| 1697.6 | -25.85 | 247 | 1.2 | V | 6.2 | 0.84 | 0 | -20.49 | -13 | -7.49 |
| 1697.6 | -30.92 | 244 | 1.1 | H | 6.2 | 0.84 | 0 | -25.56 | -13 | -12.56 |

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PCS Band (Part 24E)**Low channel**

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|--------------------|-------------|----------------|------------------------------|-----------------|----------------|-------------------------|-------------|-------------|
| 687.82 | -51.06 | 288 | 1.2 | V | 0 | 0.55 | 0 | -51.61 | -13 | -38.61 |
| 788.67 | -52.23 | 289 | 1.2 | H | 0 | 0.61 | 0 | -52.84 | -13 | -39.84 |
| 3700.4 | -26.18 | 346 | 1.2 | V | 6.9 | 1.36 | 0 | -20.64 | -13 | -7.64 |
| 3700.4 | -32.43 | 321 | 1.1 | H | 6.9 | 1.36 | 0 | -26.89 | -13 | -13.89 |

Middle channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|--------------------|-------------|----------------|------------------------------|-----------------|----------------|-------------------------|-------------|-------------|
| 689.49 | -51.16 | 312 | 1.1 | V | 0 | 0.55 | 0 | -51.71 | -13 | -38.71 |
| 812.38 | -51.89 | 148 | 1.2 | H | 0 | 0.61 | 0 | -52.5 | -13 | -39.5 |
| 3760 | -26.23 | 165 | 1.1 | V | 6.9 | 1.36 | 0 | -20.69 | -13 | -7.69 |
| 3760 | -32.27 | 237 | 1.1 | H | 6.9 | 1.36 | 0 | -26.73 | -13 | -13.73 |

High channel

| Frequency (MHz) | Substituted level (dBm) | Direction (degree) | Height (cm) | Polarity (H/V) | Antenna Gain Correction (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|--------------------|-------------|----------------|------------------------------|-----------------|----------------|-------------------------|-------------|-------------|
| 688.48 | -50.93 | 132 | 1.2 | V | 0 | 0.55 | 0 | -51.48 | -13 | -38.48 |
| 789.17 | -51.82 | 241 | 1.2 | H | 0 | 0.61 | 0 | -52.43 | -13 | -39.43 |
| 3819.6 | -26.03 | 256 | 1.1 | V | 6.9 | 1.36 | 0 | -20.49 | -13 | -7.49 |
| 3819.6 | -32.12 | 298 | 1.2 | H | 6.9 | 1.36 | 0 | -26.58 | -13 | -13.58 |

5.7 §22.917(a) & §24.238(a) - Band Edge

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.
3. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 23°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
4. Test date : 23th March , 2012
Tested By : Back Huang

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

Test Result: Pass

Refer to the attached plots.

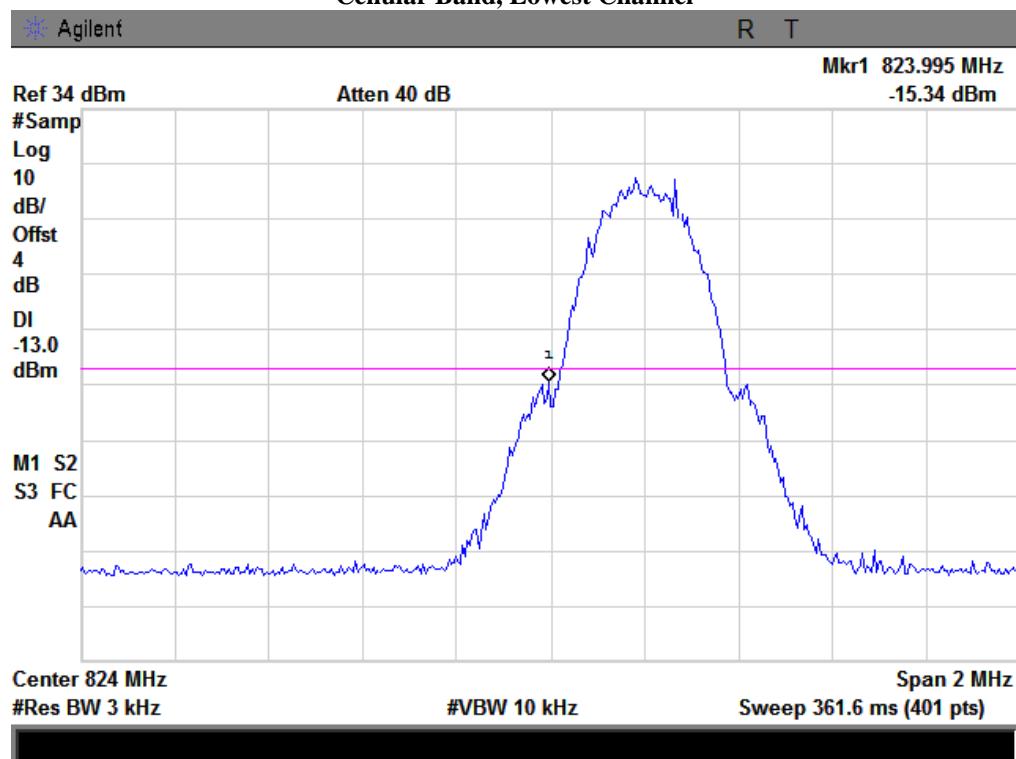
Cellular Band (Part 22H)

| Frequency (MHz) | Emission (dBm) | Limit (dBm) |
|-----------------|----------------|-------------|
| 823.995 | -15.34 | -13 |
| 849.000 | -14.87 | -13 |

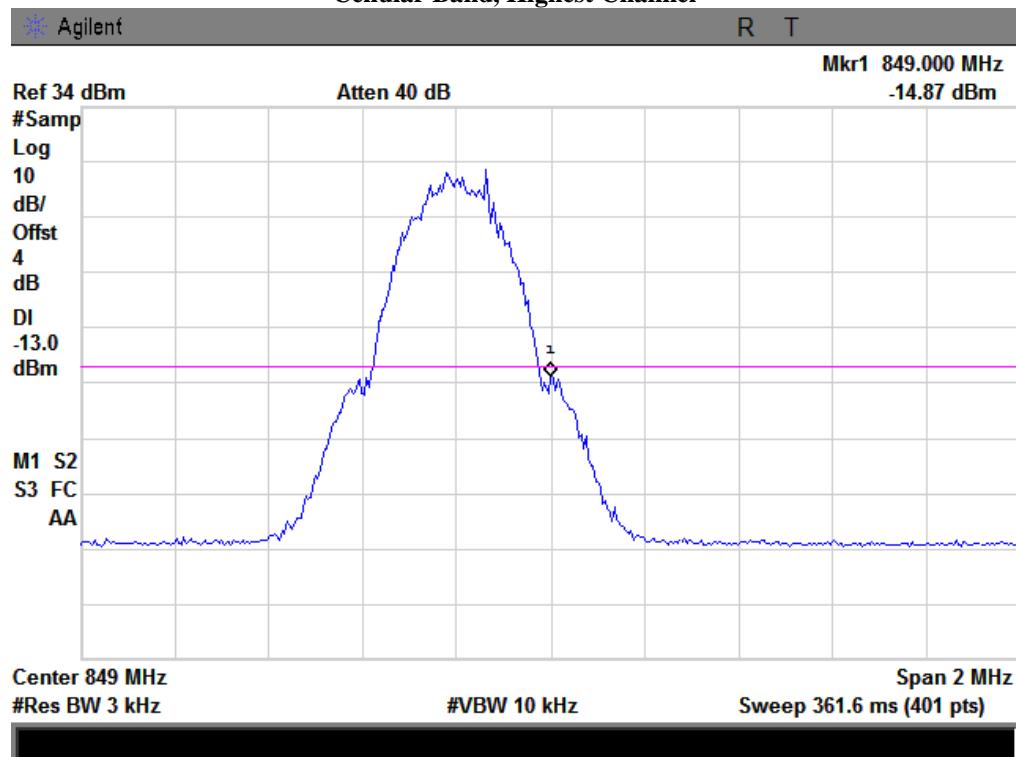
PCS Band (Part 24E)

| Frequency (MHz) | Emission (dBm) | Limit (dBm) |
|-----------------|----------------|-------------|
| 1849.995 | -16.74 | -13 |
| 1910.020 | -18.10 | -13 |

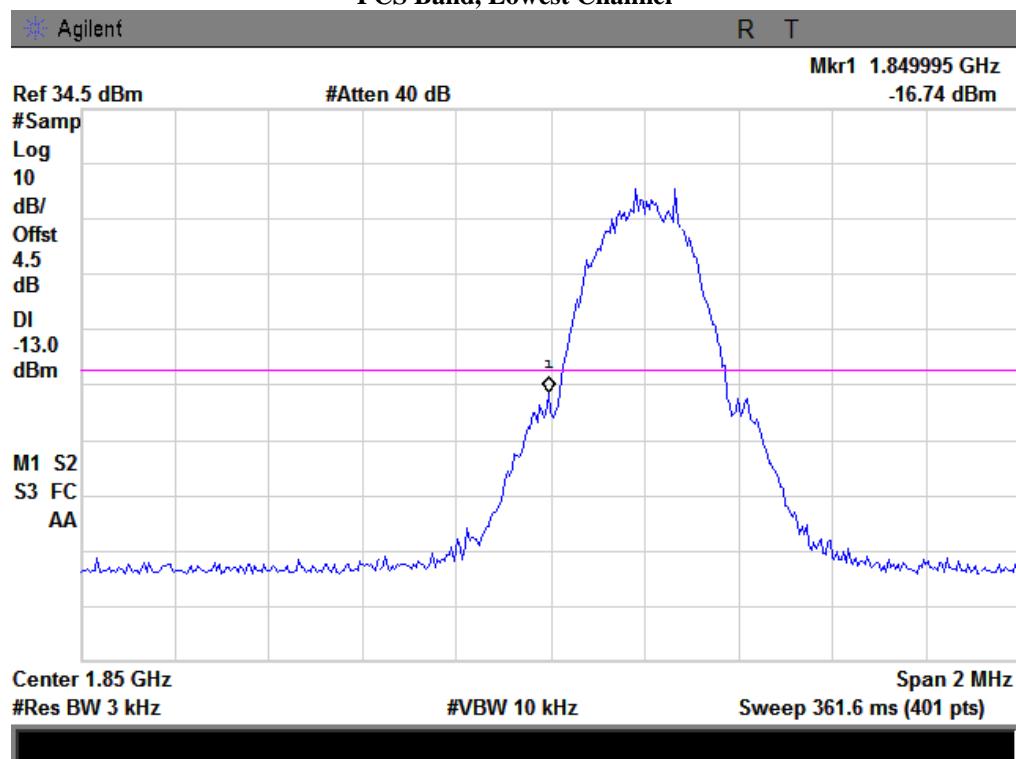
Cellular Band, Lowest Channel



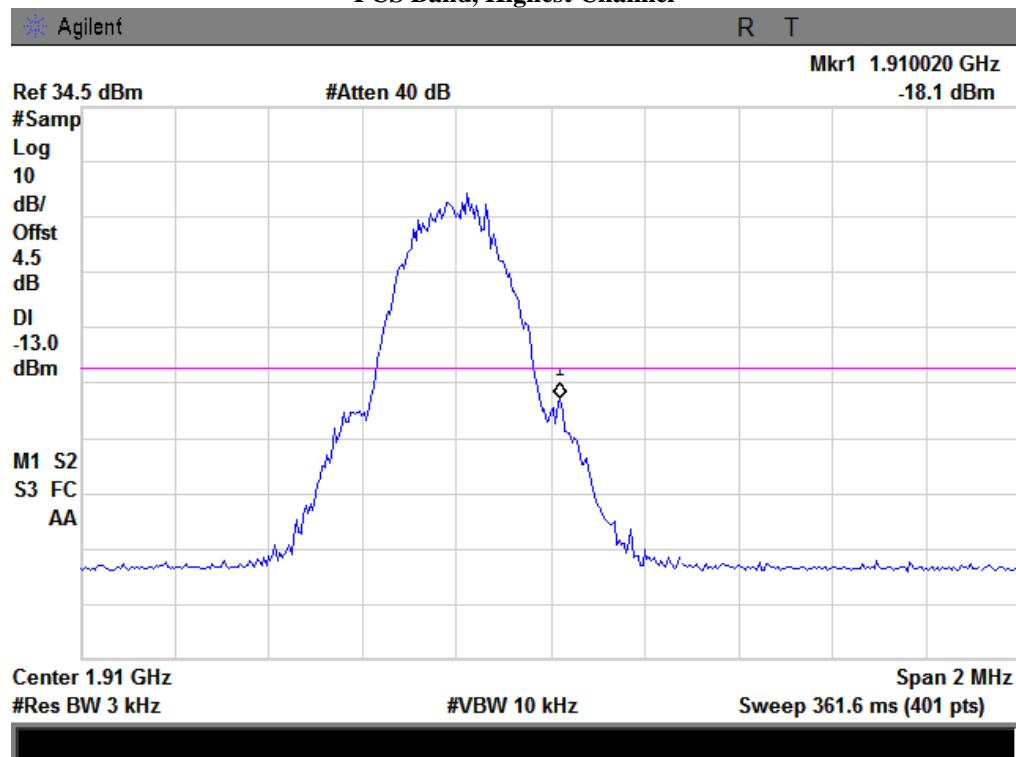
Cellular Band, Highest Channel



PCS Band, Lowest Channel



PCS Band, Highest Channel



5.8 §2.1055, §22.355 & §24.235 - Frequency Stability

1. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 23°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
2. Test date : 24th March , 2012
 Tested By : Back Huang

Standard Requirement:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

| Frequency Range (MHz) | Base, fixed (ppm) | Mobile ≤ 3 watts (ppm) | Mobile ≤ 3 watts (ppm) |
|-----------------------|-------------------|------------------------|------------------------|
| 25 to 50 | 20.0 | 20.0 | 50.0 |
| 50 to 450 | 5.0 | 5.0 | 50.0 |
| 450 to 512 | 2.5 | 5.0 | 5.0 |
| 821 to 896 | 1.5 | 2.5 | 2.5 |
| 928 to 929. | 5.0 | N/A | N/A |
| 929 to 960. | 1.5 | N/A | N/A |
| 2110 to 2220 | 10.0 | N/A | N/A |

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

Procedures:

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

Test Results: Pass

Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10 °C to +55 °C at normal supply voltage.

Cellular Band (Part 22H)

| Middle Channel, $f_o = 836.6$ MHz | | | | |
|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------|
| Temperature (°C) | Power Supplied (V _{DC}) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| -10 | 3.7 | 22 | 0.0263 | 2.5 |
| 0 | | 23 | 0.0275 | 2.5 |
| 10 | | 18 | 0.0215 | 2.5 |
| 20 | | 24 | 0.0287 | 2.5 |
| 30 | | 22 | 0.0263 | 2.5 |
| 40 | | 22 | 0.0263 | 2.5 |
| 50 | | 21 | 0.0251 | 2.5 |
| 55 | | 19 | 0.0227 | 2.5 |
| 25 | 4.2 | 22 | 0.0263 | 2.5 |
| | 3.5 | 24 | 0.0287 | 2.5 |

PCS Band (Part 24E)

| Middle Channel, $f_o = 1880$ MHz | | | | |
|----------------------------------|-----------------------------------|----------------------|-----------------------|-------------|
| Temperature (°C) | Power Supplied (V _{DC}) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| -10 | 3.7 | 33 | 0.0176 | 2.5 |
| 0 | | 34 | 0.0181 | 2.5 |
| 10 | | 31 | 0.0165 | 2.5 |
| 20 | | 29 | 0.0154 | 2.5 |
| 30 | | 33 | 0.0176 | 2.5 |
| 40 | | 32 | 0.0170 | 2.5 |
| 50 | | 34 | 0.0181 | 2.5 |
| 55 | | 34 | 0.0181 | 2.5 |
| 25 | 4.2 | 29 | 0.0154 | 2.5 |
| | 3.5 | 33 | 0.0176 | 2.5 |

**SIEMIC, INC.**

Title: RF Test Report for GSM Mobile Phone
Main Model: CHICO2CYZ202A
Serial Model: CHICO2CYZ202XX; CHICO2YZ201XX
To: FCC Part 22(H) & FCC Part 24(E); 2011

Report No: 12070010-FCC-R1
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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

| Instrument | Model | Calibration Date | Calibration Due Date |
|--|------------------------|------------------|----------------------|
| AC Line Conducted Emissions | | | |
| R&S EMI Test Receiver | ESPI3 | 05/25/2011 | 05/25/2012 |
| Com-Power LISN | LI-115 | 05/25/2011 | 05/25/2012 |
| A-INFOMW Antenna(1 ~18GHz) | JXTXLB-10180 | 06/02/2011 | 06/02/2012 |
| Universal Radio Communication Tester | CMU200 | 02/22/2012 | 02/22/2013 |
| Radiated Emissions | | | |
| Hp Spectrum Analyzer | 8563E | 01/10/2012 | 01/10/2013 |
| Agilent ESA-E SERIES SPECTRUM ANALYZER | E4407B | 10/25/2011 | 10/25/2012 |
| R&S EMI Receiver | ESPI3 | 05/18/2011 | 05/18/2012 |
| Antenna (30MHz~2GHz) | JB1 | 05/25/2011 | 05/25/2012 |
| ETS-Lindgren Antenna(1 ~18GHz) | 3115 | 06/02/2011 | 06/02/2012 |
| A-INFOMW Antenna(1 ~18GHz) | JXTXLB-10180 | 06/02/2011 | 06/02/2012 |
| Horn Antenna (18~40GHz) | AH-840 | 07/23/2011 | 07/23/2013 |
| Microwave Pre-Amp (18~40GHz) | PA-840 | Every 2000 Hours | |
| Hp Agilent Pre-Amplifier | 8447F | 05/25/2011 | 05/25/2012 |
| MITEQ Pre-Amplifier(1 ~ 18GHz) | AMF-7D-00101800-30-10P | 05/25/2011 | 05/25/2012 |
| Universal Radio Communication Tester | CMU200 | 02/22/2012 | 02/22/2013 |
| Chamber | 3m | 04/13/2012 | 04/13/2013 |

Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

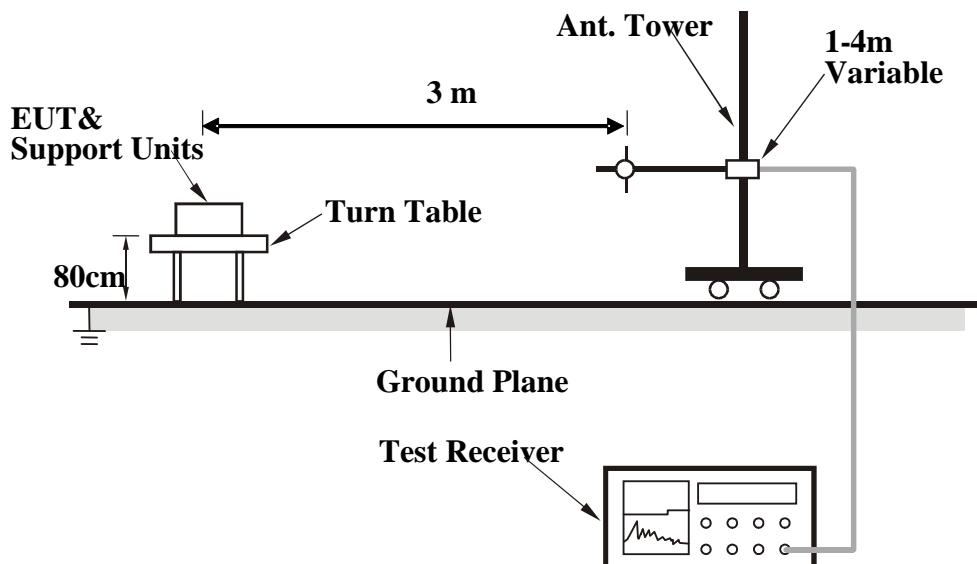
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 10th harmonic for operating frequencies \geq 108MHz),, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m or 10m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or EMC 3m chamber.

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.





Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site or EMC 10m chamber. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000 | Peak | 100 kHz | 100 kHz |
| Above 1000 | Peak | 1 MHz | 1 MHz |
| | Average | 1 MHz | 10 Hz |

Description of Radiated Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor} \text{ or}$$
$$\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}.$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



SIEMIC, INC.

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Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Please see the attachment

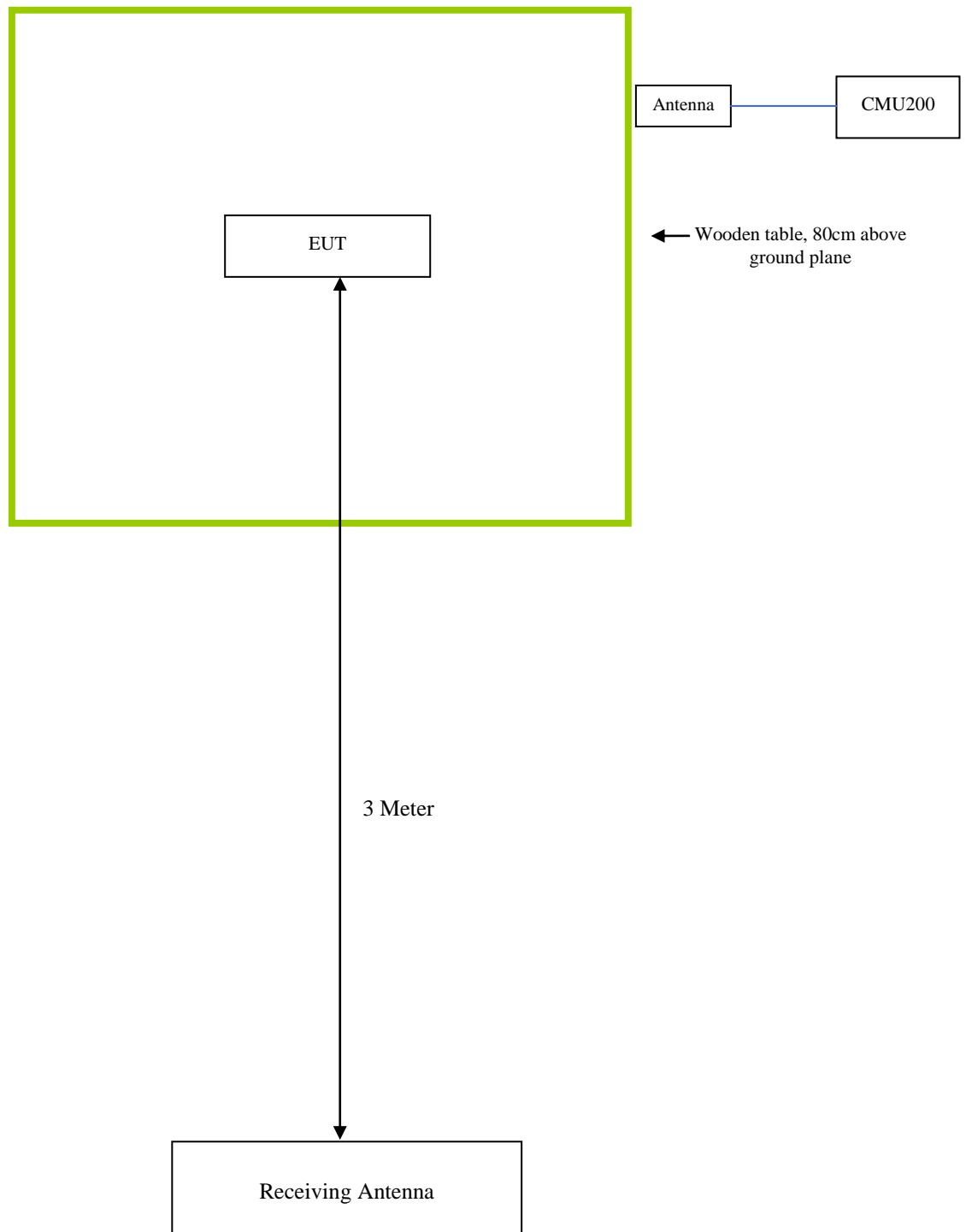
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Block Configuration Diagram for Radiated Emissions



Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

| Test | Description Of Operation |
|--------------------------|--|
| Emissions Testing | The EUT was communicating with base station and set to work at maximum output power. |
| Others Testing | The EUT was communicating with base station and set to work at maximum output power. |



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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment

Annex E. DECLARATION OF SIMILARITY



[Design Development Manufacturing]

To: SIEMIC ,2206 Ringwood Avenue, San Jose, CA, USA

DECLARATION OF SIMILARITY LETTER

Dear Sir,

We DDM Brands LLC. hereby declare that: The difference between CHICO2YZ201XX and CHICO2CYZ202XX is below: CHICO2YZ201XX does not have a camera function.

For our business issue and marketing requirement, we would like to list different models numbers on the FCC certificates and reports, as following:

Model No: CHICO2CYZ202R, CHICO2CYZ202XX (XX:COLOR MARKER).

CHICO2YZ201R, CHICO2YZ201XX (XX:COLOR MARKER).

The Serial Model Name CHICO2CYZ202XX, CHICO2YZ201XX, XX represent different Model for different Color For example: CHICO2CYZ202P, CHICO2CYZ202PU, CHICO2CYZ202N, CHICO2CYZ202B, CHICO2CYZ202R, CHICO2YZ201P, CHICO2YZ201PU, CHICO2YZ201N, CHICO2YZ201B, CHICO2YZ201R and so on.

We declare that there is no electrical change has been made to the equipment that alters the compliance characteristics. The difference of these different models is for different Color and Surface of the printing. Please kindly handle on the project.

Thank you!

Signature:

Printed name/title: Luis Sosa /CEO

Address: 1612 NW, 84TH Ave. Miami, Florida, U.S.A 33126