# RF TEST REPORT



Report No.: 16071033-FCC-R1
Supersede Report No.: N/A

| Applicant                                 | ESG group SA                       |                             |                          |
|---|------------------------------------|-----------------------------|--------------------------|
| Product Name                              | Mobile Phone                       |                             |                          |
| Model No.                                 | Mini                               |                             |                          |
| Serial No.                                | N/A                                |                             |                          |
| Test Standard                             | FCC Part 2                         | 2(H):2015 ;FCC Part 24(E):2 | 015;ANSI/TIA-603-D: 2010 |
| Test Date                                 | September 01 to September 06, 2016 |                             |                          |
| Issue Date                                | September 07, 2016                 |                             |                          |
| Test Result                               | Pass Fail                          |                             |                          |
| Equipment complied with the specification |                                    |                             |                          |
| Equipment did no                          | t comply with                      | h the specification         |                          |
| Loven                                     | Luo                                | David Huang                 |                          |
| Loren Luo Test Engineer                   |                                    | David Huang<br>Checked By   |                          |

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

#### Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

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### **Laboratories Introduction**

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| Country/Region | Scope                              |
|----------------|------------------------------------|
| USA            | EMC, RF/Wireless, SAR, Telecom     |
| Canada         | EMC, RF/Wireless, SAR, Telecom     |
| Taiwan         | EMC, RF, Telecom, SAR, Safety      |
| Hong Kong      | RF/Wireless, SAR, Telecom          |
| Australia      | EMC, RF, Telecom, SAR, Safety      |
| Korea          | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan          | EMI, RF/Wireless, SAR, Telecom     |
| Singapore      | EMC, RF, SAR, Telecom              |
| Europe         | EMC, RF, SAR, Telecom, Safety      |



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### 1. Report Revision History

| Report No.      | Report Version | Description | Issue Date         |
|-----------------|----------------|-------------|--------------------|
| 16071033-FCC-R1 | NONE           | Original    | September 07, 2016 |
|                 |                |             |                    |
|                 |                |             |                    |
|                 |                |             |                    |
|                 |                |             |                    |
|                 |                |             |                    |

### 2. Customer information

| Applicant Name   | ESG group SA   |
|------------------|--|
| Applicant Add    | 14 Rue Capois, Port-au-Prince Haiti                        |
| Manufacturer     | ESG group SA   |
| Manufacturer Add | 30 Rue des Nimes, route de l'aeoport Port-au-Prince, Haiti |

### 3. Test site information

| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES                                    |  |
|----------------------|---|--|
|                      | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park                 |  |
| Lab Address          | South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China |  |
|                      | 518108  |  |
| FCC Test Site No.    | 718246  |  |
| IC Test Site No.     | 4842E-1   |  |
| Test Software        | Radiated Emission Program-To Shenzhen v2.0                              |  |



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### 4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: Mini

Serial Model: N/A

Date EUT received: August 30, 2016

Test Date(s): September 01 to September 06, 2016

Equipment Category : PCE

GSM850: -0.13dBi

Antenna Gain: PCS1900: -0.32dBi

Bluetooth: -5.4dBi

GSM:PIFA antenna Antenna Type:

BT: Monopole antenna

Type of Modulation:

GSM / GPRS: GMSK

Bluetooth: GFSK, π /4DQPSK, 8DPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

RF Operating Frequency (ies): PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

Bluetooth: 2402-2480 MHz

GSM Vioce:GSM850: 32.49dBm

Maximum Conducted PCS1900: 30.11dBm

AV Power to Antenna: GPRS:GSM850: 32.30dBm

PCS1900: 30.10dBm

GSM Vioce :GSM850: 30.11dBm / ERP

PCS1900: 30.45dBm / EIRPP

ERP/EIRP: GPRS: GSM850: 30.33dBm / ERP

PCS1900: 29.97dBm / EIRPP



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GSM 850: 124CH

Number of Channels: PCS1900: 299CHH

Bluetooth: 79CH

Port: Power Port, Earphone Port, USB Port

Adapter:

Model:GCH-001

Input: AC 100-240V,50/60Hz;0.15A

Output: DC 5.0V,500mA

Input Power:

Battery:

Model:BT012300

Spec: 3.7V,700mAh

Charge limited voltage: 4.2V

Trade Name : Gravity

GPRS Multi-slot class 8/10/12

FCC ID: 2AGOOMINIHT



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### 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules                          | Description of Test                    | Result      |  |
|------------------------------------|--|-------------|--|
| § 1.1307; § 2.1093                 | RF Exposure (SAR)                      | Compliance  |  |
| §2.1046; § 22.913(a); § 24.232(c); | RF Output Power                        | Compliance  |  |
| § 24.232 (d) ;                     | Peak-Average Ratio                     | Compliance  |  |
| § 2.1049; § 22.905; § 22.917;      | 000/ 9, 26 dB Occurried Bandwidth      | Compliance  |  |
| § 24.238;                          | 99% & -26 dB Occupied Bandwidth        | Compliance  |  |
| § 2.1051; § 22.917(a);             | Spurious Emissions at Antonna Tarminal | Camplianas  |  |
| § 24.238(a);                       | Spurious Emissions at Antenna Terminal | Compliance  |  |
| § 2.1053; § 22.917(a);             | Field Chronath of Courieus Dadistics   | Camplianas  |  |
| § 24.238(a);                       | Field Strength of Spurious Radiation   | Compliance  |  |
| § 22.917(a); § 24.238(a);          | Out of band emission, Band Edge        | Compliance  |  |
| \$ 2.4055, \$ 22.255, \$ 24.225,   | Frequency stability vs. temperature    | Carralianas |  |
| § 2.1055; § 22.355; § 24.235;      | Frequency stability vs. voltage        | Compliance  |  |

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

#### **Measurement Uncertainty**

| Emissions                                 |   |               |  |  |
|---|---|---------------|--|--|
| Test Item                                 | Description   | Uncertainty   |  |  |
| Band Edge and Radiated Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |  |  |
| -   | -   | -             |  |  |



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### 6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

### 6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

Please refer to RF Exposure Evaluation Report: 16071033-FCC-H.



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## 6.2 RF Output Power

| Temperature          | 25°C               |
|----------------------|--------------------|
| Relative Humidity    | 54%                |
| Atmospheric Pressure | 1002mbar           |
| Test date :          | September 02, 2016 |
| Tested By :          | Loren Luo          |

#### Requirement(s):

| Spec  | Item   | Requirement Applicable                                 |         |  |  |  |
|---|--|--|---------|--|--|--|
| §22.913 (a)   | a)   | ERP:38.45dBm   |         |  |  |  |
| §24.232 (c)   | b)   | EIRP:33dBm ✓   |         |  |  |  |
| Test Setup  |  |  |         |  |  |  |
|   | Fc   | or Conducted Power:                                    |         |  |  |  |
|   | -  | The transmitter output port was connected to base stat | ion.    |  |  |  |
|   | -  | Set EUT at maximum power through base station.         |         |  |  |  |
|   | -  | Select lowest, middle, and highest channels for each b | and and |  |  |  |
|   |  | different test mode.                                   |         |  |  |  |
|   | F  |  |         |  |  |  |
|   | Α  | according with KDB 971168 v02r02                       |         |  |  |  |
|   | <ul> <li>The transmitter was placed on a wooden turntable, and it w<br/>transmitting into a non-radiating load which was also placed<br/>turntable.</li> </ul> |  |         |  |  |  |
| Test Procedure  |  |  |         |  |  |  |
|   |  |  |         |  |  |  |
|   | - 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.   |  |         |  |  |  |
| - The frequency range up to tenth harmonic of the fundament |  |  |         |  |  |  |
|   | frequency was investigated.  |  |         |  |  |  |



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| _             |   |  |  |  |  |
|---------------|---|--|--|--|--|
|               | - 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 log (TX power in Watts/0.001) –     |  |  |  |  |
|               | the absolute level  |  |  |  |  |
|               | - Spurious attenuation limit in dB = 43 + 10 Log10 (power out in    |  |  |  |  |
|               | Watts.  |  |  |  |  |
| Remark        |   |  |  |  |  |
| Result        | Pass  |  |  |  |  |
| Test Data Yes | N/A   |  |  |  |  |
| Test Plot Yes | (See below) N/A   |  |  |  |  |



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#### **Conducted Power**

### **GSM Mode:**

| Burst Average Power (dBm);                  |       |        |       |                              |        |         |        |                              |  |
|---|-------|--------|-------|------------------------------|--------|---------|--------|------------------------------|--|
| Band  |       | GSM850 |       |                              |        | PCS1900 |        |                              |  |
| Channel                                     | 128   | 190    | 251   | Tune up<br>Power<br>tolerant | 512    | 661     | 810    | Tune up<br>Power<br>tolerant |  |
| Frequency (MHz)                             | 824.2 | 836.6  | 848.8 | 1                            | 1850.2 | 1880    | 1909.8 | 1                            |  |
| GSM Voice<br>(1 uplink),GMSK                | 32.49 | 32.31  | 32.32 | 32±1                         | 30.11  | 29.50   | 29.45  | 29.8±1                       |  |
| GPRS Multi-Slot Class<br>8 (1 uplink),GMSK  | 32.32 | 32.29  | 32.30 | 32±1                         | 30.10  | 29.43   | 29.03  | 29.8±1                       |  |
| GPRS Multi-Slot Class<br>10 (2 uplink) GMSK | 30.54 | 30.58  | 30.56 | 30.5±1                       | 28.37  | 28.76   | 28.01  | 28.5±1                       |  |
| GPRS Multi-Slot Class<br>12 (4 uplink) GMSK | 26.28 | 26.32  | 26.35 | 26±1                         | 25.21  | 25.17   | 24.88  | 25.3±1                       |  |

#### 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

Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link

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



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### GSM Mode:

### **ERP & EIRP**

### ERP for Cellular Band (Part 22H)

| Frequency<br>(MHz) | Substituted<br>level<br>(dBm) | Antenna<br>Polarization | Antenna Gain<br>correction<br>(dBi) | Cable Loss<br>(dB) | Absolute Level (dBm) | Limit<br>(dBm) |
|--------------------|-------------------------------|-------------------------|-------------------------------------|--------------------|----------------------|----------------|
| 824.2              | 23.69                         | V                       | 6.8                                 | 0.53               | 29.96                | 38.45          |
| 824.2              | 21.98                         | Н                       | 6.8                                 | 0.53               | 28.25                | 38.45          |
| 836.6              | 23.81                         | V                       | 6.8                                 | 0.53               | 30.08                | 38.45          |
| 836.6              | 22.06                         | Н                       | 6.8                                 | 0.53               | 28.33                | 38.45          |
| 848.8              | 23.74                         | V                       | 6.9                                 | 0.53               | 30.11                | 38.45          |
| 848.8              | 21.85                         | Н                       | 6.9                                 | 0.53               | 28.22                | 38.45          |

### EIRP for PCS Band (Part 24E)

| Frequency<br>(MHz) | Substituted<br>level<br>(dBm) | Antenna<br>Polarization | Antenna Gain<br>correction<br>(dBi) | Cable Loss<br>(dB) | Absolute Level (dBm) | Limit<br>(dBm) |
|--------------------|-------------------------------|-------------------------|-------------------------------------|--------------------|----------------------|----------------|
| 1850.2             | 23.42                         | V                       | 7.88                                | 0.85               | 30.45                | 33             |
| 1850.2             | 21.75                         | Н                       | 7.88                                | 0.85               | 28.78                | 33             |
| 1880               | 22.79                         | V                       | 7.88                                | 0.85               | 29.82                | 33             |
| 1880               | 21.37                         | Н                       | 7.88                                | 0.85               | 28.40                | 33             |
| 1909.8             | 22.65                         | V                       | 7.86                                | 0.85               | 29.66                | 33             |
| 1909.8             | 21.34                         | Н                       | 7.86                                | 0.85               | 28.35                | 33             |



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### **GPRS Mode:**

### **ERP & EIRP**

### ERP for Cellular Band (Part 22H)

| Frequency<br>(MHz) | Substituted<br>level<br>(dBm) | Antenna<br>Polarization | Antenna Gain<br>correction<br>(dBi) | Cable Loss<br>(dB) | Absolute Level (dBm) | Limit<br>(dBm) |
|--------------------|-------------------------------|-------------------------|-------------------------------------|--------------------|----------------------|----------------|
| 824.2              | 24.06                         | V                       | 6.8                                 | 0.53               | 30.33                | 38.45          |
| 824.2              | 22.54                         | Н                       | 6.8                                 | 0.53               | 28.81                | 38.45          |
| 836.6              | 23.87                         | V                       | 6.8                                 | 0.53               | 30.14                | 38.45          |
| 836.6              | 22.19                         | Н                       | 6.8                                 | 0.53               | 28.46                | 38.45          |
| 848.8              | 23.95                         | V                       | 6.9                                 | 0.53               | 30.32                | 38.45          |
| 848.8              | 22.28                         | Н                       | 6.9                                 | 0.53               | 28.65                | 38.45          |

### EIRP for PCS Band (Part 24E)

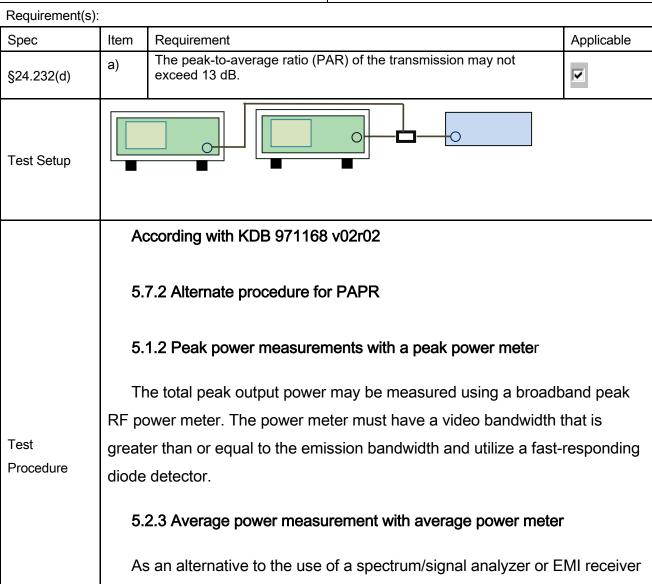
| Frequency<br>(MHz) | Substituted<br>level<br>(dBm) | Antenna<br>Polarization | Antenna Gain<br>correction<br>(dBi) | Cable Loss<br>(dB) | Absolute Level (dBm) | Limit<br>(dBm) |
|--------------------|-------------------------------|-------------------------|-------------------------------------|--------------------|----------------------|----------------|
| 1850.2             | 22.78                         | V                       | 7.88                                | 0.85               | 29.81                | 33             |
| 1850.2             | 21.03                         | Н                       | 7.88                                | 0.85               | 28.06                | 33             |
| 1880               | 22.94                         | V                       | 7.88                                | 0.85               | 29.97                | 33             |
| 1880               | 21.12                         | Н                       | 7.88                                | 0.85               | 28.15                | 33             |
| 1909.8             | 22.65                         | V                       | 7.86                                | 0.85               | 29.66                | 33             |
| 1909.8             | 20.85                         | Н                       | 7.86                                | 0.85               | 27.86                | 33             |



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#### 6.3 Peak-Average Ratio

| Temperature          | 25°C               |
|----------------------|--------------------|
| Relative Humidity    | 54%                |
| Atmospheric Pressure | 1002mbar           |
| Test date :          | September 02, 2016 |
| Tested By:           | Loren Luo          |



to perform a measurement of the total in-band average output power, a

If the EUT can be configured to transmit continuously (i.e., the burst duty

wideband RF average power meter with a thermocouple detector or

equivalent can be used under certain conditions



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|        | cycle ≥ 98%) and at all times the EUT is transmitting at is maximum output       |
|--------|--|
|        | power level, then a conventional wide-band RF power meter can be used.           |
|        | If the EUT cannot be configured to transmit continuously (i.e., the burst duty   |
|        | cycle < 98%), then there are two options for the use of an average power         |
|        | meter. First, a gated average power meter can be used to perform the             |
|        | measurement if the gating parameters can be adjusted such that the power is      |
|        | measured only over active transmission bursts at maximum output power            |
|        | levels. A conventional average power meter can also be used if the               |
|        | measured burst duty cycle is constant (i.e., duty cycle variations are less than |
|        | ± 2 percent) by performing the measurement over the on/off burst cycles and      |
|        | then correcting (increasing) the measured level by a factor equal to             |
|        | 10log(1/duty cycle)  |
| Remark |  |
| Result | Pass Fail  |

| Test Data | Yes             | □ <sub>N/A</sub> |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | ✓ <sub>N/A</sub> |



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### GSM 1900 PK-AV POWER (PART 24E)

| Frequency | Conducted power(dBm) |       | Peak-Average |
|-----------|----------------------|-------|--------------|
| (MHz)     | Peak Average         |       | Ratio(PAR)   |
| 1850.2    | 32.21                | 30.11 | 2.10         |
| 1880      | 30.86                | 29.5  | 1.36         |
| 1909.8    | 30.95                | 29.45 | 1.50         |

#### GPRS 1900 PK-AV POWER (PART 24E)

| Frequency | Conducted power(dBm) |         | Peak-Average |
|-----------|----------------------|---------|--------------|
| (MHz)     | Peak                 | Average | Ratio(PAR)   |
| 1850.2    | 31.56                | 30.1    | 1.46         |
| 1880      | 30.59                | 29.43   | 1.16         |
| 1909.8    | 30.73                | 29.03   | 1.70         |



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### 6.4 Occupied Bandwidth

| Temperature          | 25°C               |
|----------------------|--------------------|
| Relative Humidity    | 54%                |
| Atmospheric Pressure | 1002mbar           |
| Test date :          | September 02, 2016 |
| Tested By:           | Loren Luo          |

#### Requirement(s):

| Spec       | Item | Item Requirement Applica   |             |  |
|------------|------|--|-------------|--|
| §2.1049,   | a)   | a) 99% Occupied Bandwidth(kHz)   |             |  |
| §22.917,   |      |  |             |  |
| §22.905    | b)   | 26 dB Bandwidth(kHz)   | <b>V</b>    |  |
| §24.238    |      |  | Ŋ           |  |
| Test Setup |      |  |             |  |
| Test       | -    | <ul> <li>The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> </ul> |             |  |
|            |      |  |             |  |
| Procedure  | -    | The 99% and 26 dB occupied bandwidth (BW) of the mide  | dle channel |  |
|            |      | for the highest RF powers.   |             |  |
| Remark     |      |  |             |  |
| Result     | Pa   | ass Fail   |             |  |

Test Data

Yes

N/A

Test Plot

Yes (See below)



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#### **GSM Voice:**

#### Cellular Band (Part 22H) result

| Channel | Frequency | 99% Occupied    | 26 dB Bandwidth |
|---------|-----------|-----------------|-----------------|
|         | (MHz)     | Bandwidth (kHz) | (kHz)           |
| 128     | 824.2     | 247.1950        | 319.292         |
| 190     | 836.6     | 239.5134        | 314.231         |
| 251     | 848.8     | 243.7527        | 316.645         |

### PCS Band (Part 24E) result

| Channel | Frequency | 99% Occupied    | 26 dB Bandwidth |
|---------|-----------|-----------------|-----------------|
|         | (MHz)     | Bandwidth (kHz) | (kHz)           |
| 512     | 1850.2    | 242.8603        | 320.649         |
| 661     | 1880.0    | 243.9770        | 322.308         |
| 810     | 1909.8    | 247.0295        | 316.759         |

#### **GPRS Mode:**

### Cellular Band (Part 22H) result

| Channal | Frequency | 99% Occupied    | 26 dB Bandwidth |
|---------|-----------|-----------------|-----------------|
| Channel | (MHz)     | Bandwidth (kHz) | (kHz)           |
| 128     | 824.2     | 244.7468        | 319.184         |
| 190     | 836.6     | 246.8927        | 315.410         |
| 251     | 848.8     | 243.5706        | 318.057         |

### PCS Band (Part 24E) result

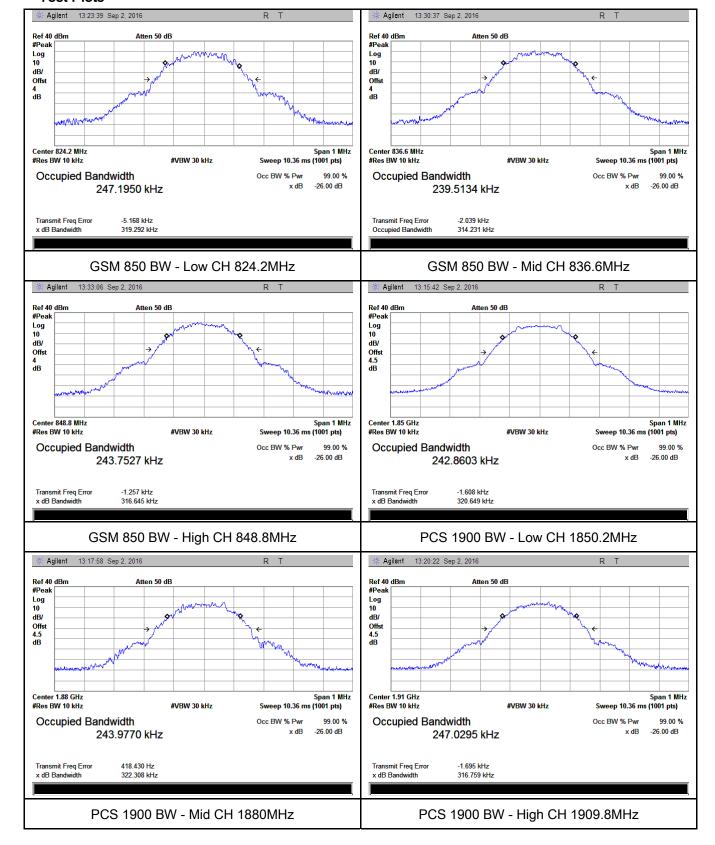
| Channal | Frequency | 99% Occupied    | 26 dB Bandwidth |
|---------|-----------|-----------------|-----------------|
| Channel | (MHz)     | Bandwidth (kHz) | (kHz)           |
| 512     | 1850.2    | 245.5384        | 315.111         |
| 661     | 1880.0    | 250.4378        | 315.564         |
| 810     | 1909.8    | 249.6187        | 314.459         |



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|-------------|-----------------|
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#### **GSM Mode:**

#### **Test Plots**

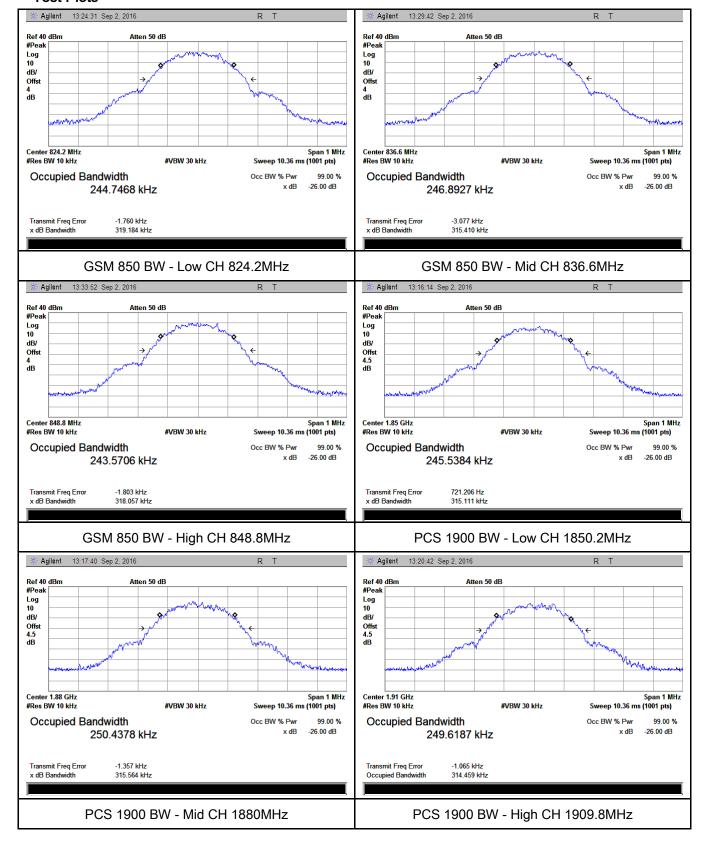




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|-------------|-----------------|
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#### **GPRS Mode:**

#### **Test Plots**





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|-------------|-----------------|--|
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### 6.5 Spurious Emissions at Antenna Terminals

| Temperature          | 25°C               |
|----------------------|--------------------|
| Relative Humidity    | 54%                |
| Atmospheric Pressure | 1002mbar           |
| Test date :          | September 02, 2016 |
| Tested By :          | Loren Luo          |

#### Requirement(s):

| Requirement(s).                       |             |  |            |
|---------------------------------------|-------------|--|------------|
| Spec                                  | Item        | Requirement  | Applicable |
| §2.1051,<br>§22.917(a)&<br>§24.238(a) | a)          | 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               |            |
| Test Setup                            |             |  |            |
| Test<br>Procedure                     | -           | The EUT was connected to Spectrum Analyzer and Bas via power divider.  The Band Edges of low and high channels for the highest powers were measured.  Setting RBW as roughly BW/100. |            |
| Remark                                |             |  |            |
| Result                                | <b>▼</b> Pa | ass Fail   |            |

| Test Data | Yes             | □ <sub>N/A</sub> |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ <sub>N/A</sub> |

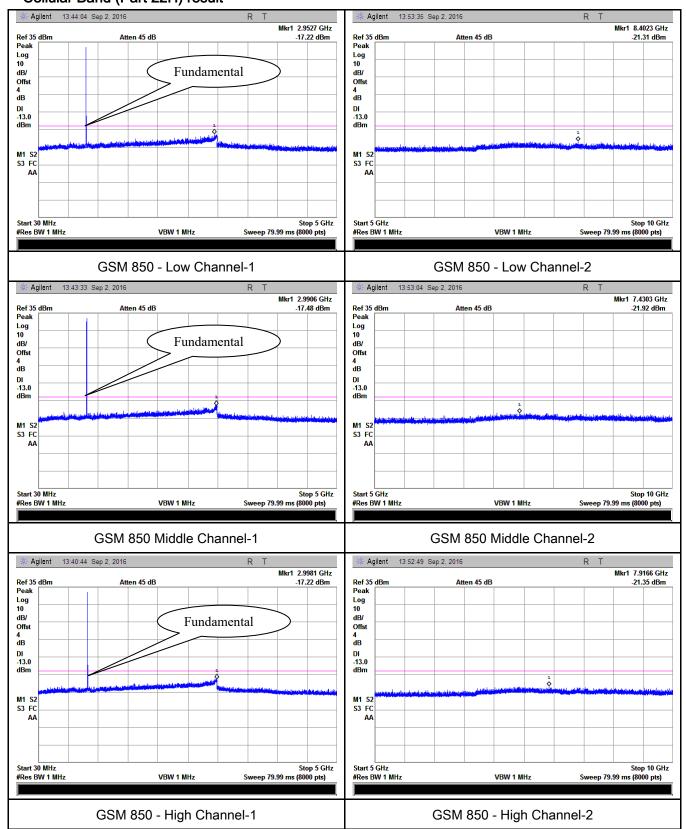


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#### **GSM Mode:**

#### **Test Plots**

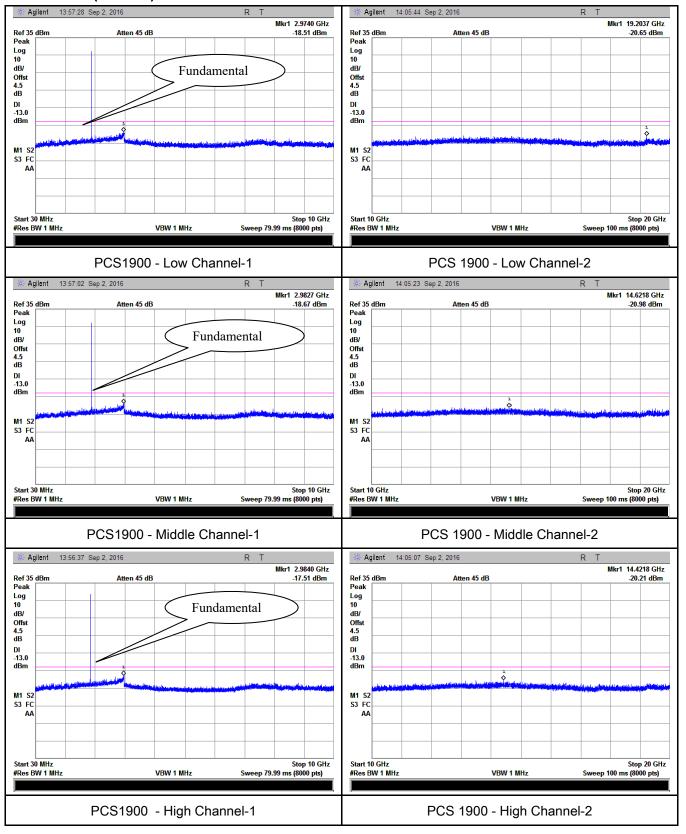
#### Cellular Band (Part 22H) result





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|-------------|-----------------|
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#### PCS Band (Part24E) result



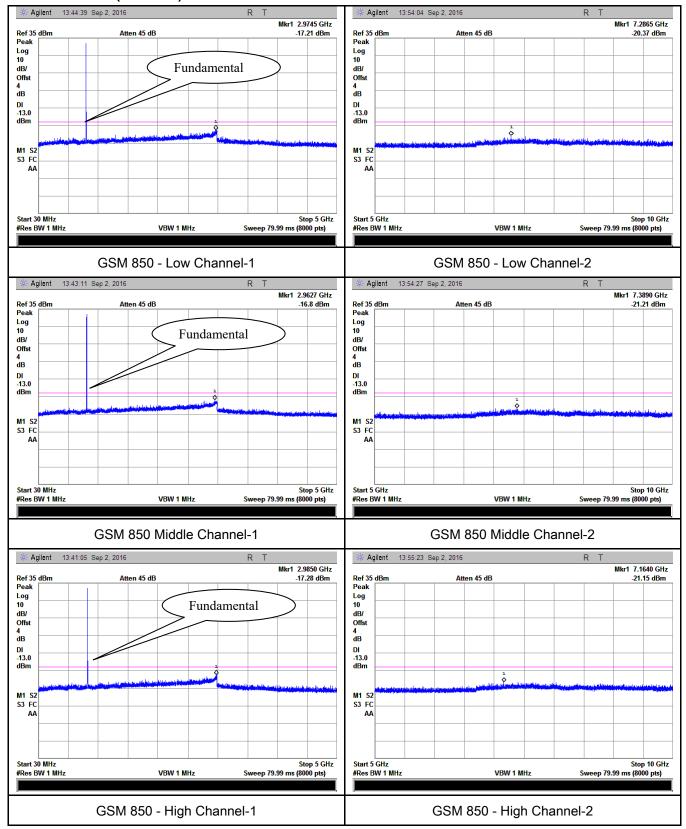


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#### **GPRS Mode:**

#### **Test Plots**

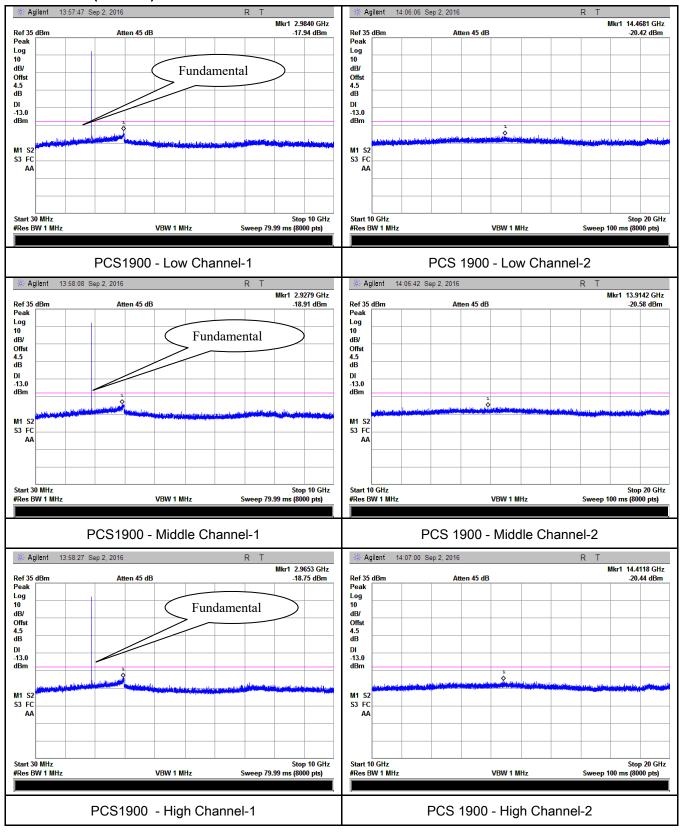
#### Cellular Band (Part 22H) result





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#### PCS Band (Part24E) result





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|-------------|-----------------|
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### 6.6 Spurious Radiated Emissions

| Temperature          | 25°C               |
|----------------------|--------------------|
| Relative Humidity    | 54%                |
| Atmospheric Pressure | 1002mbar           |
| Test date :          | September 02, 2016 |
| Tested By :          | Loren Luo          |

| Requirement(s):                  |  |  |            |
|----------------------------------|--|--|------------|
| Spec                             | Item   | Requirement  | Applicable |
| §2.1053,<br>§22.917 &<br>§24.238 | a)   | 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. | <b>\</b>   |
| Test setup                       | EUTé<br>Suppo  | Turn Table   | le         |
| Test<br>Procedure                | <ol> <li>The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.</li> <li>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.</li> <li>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.         Sample Calculation:         EUT Field Strength = Raw Amplitude (dBµV/m) - Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)     </li> </ol> |  |            |



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|-------------|-----------------|
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| Remark |      |      |  |  |
|--------|------|------|--|--|
| Result | Pass | Fail |  |  |

Test Data Yes

Test Plot Yes (See below) N/A



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|-------------|-----------------|
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#### **GSM Voice:**

### Cellular Band (Part 22H) result

#### Low channel

| Frequency<br>(MHz) | Substituted level (dBm) | Polarity<br>(H/V) | Antenna<br>Gain<br>Correction (dB) | Cable<br>Loss<br>(dB) | Corrected<br>Reading<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------|-------------------|------------------------------------|-----------------------|-------------------------------|----------------|----------------|
| 1648.4             | -44.16                  | ٧                 | 7.95                               | 0.78                  | -36.99                        | -13            | -23.99         |
| 1648.4             | -43.69                  | Н                 | 7.95                               | 0.78                  | -36.52                        | -13            | -23.52         |
| 311.2              | -52.68                  | V                 | 6.4                                | 0.26                  | -46.54                        | -13            | -33.54         |
| 605.3              | -51.79                  | Н                 | 6.8                                | 0.37                  | -45.36                        | -13            | -32.36         |

#### Middle channel

| Frequency<br>(MHz) | Substituted level (dBm) | Polarity<br>(H/V) | Antenna<br>Gain<br>Correction (dB) | Cable<br>Loss<br>(dB) | Corrected<br>Reading<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------|-------------------|------------------------------------|-----------------------|-------------------------------|----------------|----------------|
| 1673.2             | -44.21                  | V                 | 7.95                               | 0.78                  | -37.04                        | -13            | -24.04         |
| 1673.2             | -43.85                  | Н                 | 7.95                               | 0.78                  | -36.68                        | -13            | -23.68         |
| 311.5              | -52.73                  | V                 | 6.4                                | 0.26                  | -46.59                        | -13            | -33.59         |
| 604.8              | -51.84                  | Н                 | 6.8                                | 0.37                  | -45.41                        | -13            | -32.41         |

#### High channel

| Frequency<br>(MHz) | Substituted level (dBm) | Polarity<br>(H/V) | Antenna<br>Gain<br>Correction (dB) | Cable<br>Loss<br>(dB) | Corrected<br>Reading<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------|-------------------|------------------------------------|-----------------------|-------------------------------|----------------|----------------|
| 1697.6             | -44.23                  | V                 | 7.95                               | 0.78                  | -37.06                        | -13            | -24.06         |
| 1697.6             | -43.75                  | Н                 | 7.95                               | 0.78                  | -36.58                        | -13            | -23.58         |
| 311.7              | -52.66                  | V                 | 6.4                                | 0.26                  | -46.52                        | -13            | -33.52         |
| 605.6              | -51.71                  | Н                 | 6.8                                | 0.37                  | -45.28                        | -13            | -32.28         |

#### Note:

- 1, The testing has been conformed to 10\*848.8MHz=8,488MHz
- 2, All other emissions more than 30 dB below the limit
- 3,GSM voice, GPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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### PCS Band (Part24E) result

#### Low channel

| Frequency<br>(MHz) | Substituted level (dBm) | Polarity<br>(H/V) | Antenna<br>Gain<br>Correction (dB) | Cable<br>Loss<br>(dB) | Corrected<br>Reading<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------|-------------------|------------------------------------|-----------------------|-------------------------------|----------------|----------------|
| 3700.4             | -49.52                  | V                 | 10.25                              | 2.73                  | -42                           | -13            | -29.00         |
| 3700.4             | -48.36                  | Н                 | 10.25                              | 2.73                  | -40.84                        | -13            | -27.84         |
| 330.9              | -54.01                  | V                 | 6.4                                | 0.26                  | -47.87                        | -13            | -34.87         |
| 605.7              | -53.28                  | Н                 | 6.8                                | 0.37                  | -46.85                        | -13            | -33.85         |

#### Middle channel

| Frequency<br>(MHz) | Substituted level (dBm) | Polarity<br>(H/V) | Antenna<br>Gain<br>Correction (dB) | Cable<br>Loss<br>(dB) | Corrected<br>Reading<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------|-------------------|------------------------------------|-----------------------|-------------------------------|----------------|----------------|
| 3760               | -49.35                  | V                 | 10.25                              | 2.73                  | -41.83                        | -13            | -28.83         |
| 3760               | -48.77                  | Н                 | 10.25                              | 2.73                  | -41.25                        | -13            | -28.25         |
| 330.8              | -54.03                  | V                 | 6.4                                | 0.26                  | -47.89                        | -13            | -34.89         |
| 604.5              | -53.31                  | Н                 | 6.8                                | 0.37                  | -46.88                        | -13            | -33.88         |

#### High channel

| Frequency<br>(MHz) | Substituted level (dBm) | Polarity<br>(H/V) | Antenna<br>Gain<br>Correction (dB) | Cable<br>Loss<br>(dB) | Corrected<br>Reading<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|--------------------|-------------------------|-------------------|------------------------------------|-----------------------|-------------------------------|----------------|----------------|
| 3819.6             | -49.51                  | V                 | 10.36                              | 2.73                  | -41.88                        | -13            | -28.88         |
| 3819.6             | -48.82                  | Η                 | 10.36                              | 2.73                  | -41.19                        | -13            | -28.19         |
| 331.4              | -53.98                  | ٧                 | 6.4                                | 0.26                  | -47.84                        | -13            | -34.84         |
| 605.1              | -53.11                  | Н                 | 6.8                                | 0.37                  | -46.68                        | -13            | -33.68         |

#### Note:

- 1, The testing has been conformed to 10\*1909.8MHz=19,098MHz
- 2, All other emissions more than 30 dB below the limit
- 3,GSM voice, GPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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### 6.7 Band Edge

| Temperature          | 25°C               |
|----------------------|--------------------|
| Relative Humidity    | 54%                |
| Atmospheric Pressure | 1002mbar           |
| Test date :          | September 02, 2016 |
| Tested By :          | Loren Luo          |

#### Requirement(s):

| Spec                     | Item        | Requirement   | Applicable  |
|--------------------------|-------------|---|-------------|
| §22.917(a)<br>§24.238(a) | a)          | 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.       | <b>&gt;</b> |
| Test setup               |             |   |             |
| Procedure                | -           | The EUT was connected to Spectrum Analyzer and Base S power divider.  The Band Edges of low and high channels for the highest R were measured. Setting RBW as roughly BW/100. |             |
| Remark                   |             |   |             |
| Result                   | <b>☑</b> Pa | ss Fail   |             |

| Test Data | Yes             | □ <sub>N/A</sub> |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ <sub>N/A</sub> |



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#### **GSM Mode:**

#### Cellular Band (Part 22H) result

| Frequency (MHz) | Emission (dBm) | Limit (dBm) |
|-----------------|----------------|-------------|
| 823.9975        | -15.54         | -13         |
| 849.0250        | -19.01         | -13         |

### PCS Band (Part24E) result

| Frequency (MHz) | Emission (dBm) | Limit (dBm) |
|-----------------|----------------|-------------|
| 1849.9825       | -13.99         | -13         |
| 1910.0222       | -16.96         | -13         |

#### **GPRS Mode:**

### Cellular Band (Part 22H) result

| Frequency (MHz) | Emission (dBm) | Limit (dBm) |
|-----------------|----------------|-------------|
| 823.9975        | -17.97         | -13         |
| 849.0225        | -18.38         | -13         |

### PCS Band (Part24E) result

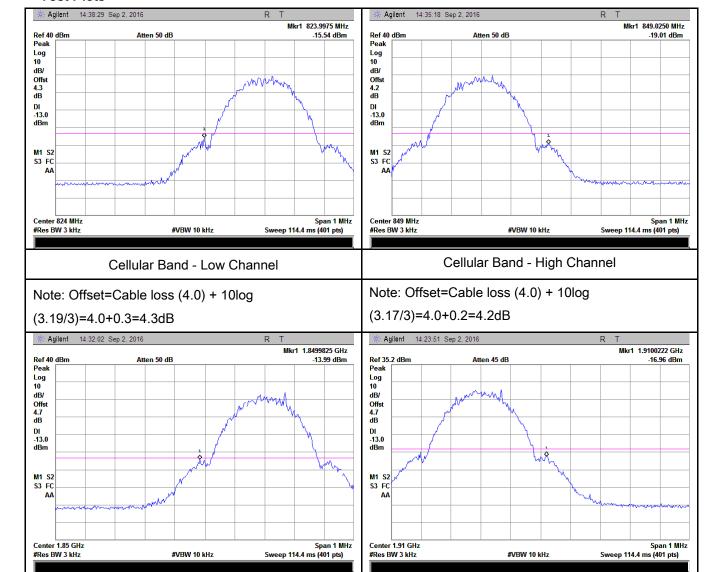
| Frequency (MHz) | Emission (dBm) | Limit (dBm) |
|-----------------|----------------|-------------|
| 1849.9800       | -14.83         | -13         |
| 1910.0222       | -16.37         | -13         |



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#### **GSM Mode:**

#### **Test Plots**



PCS Band - Low Channel

Note: Offset=Cable loss (4.5) + 10log

(3.21/3)=4.5+0.2=4.7dB

PCS Band - High Channel

Note: Offset=Cable loss (4.5) + 10log

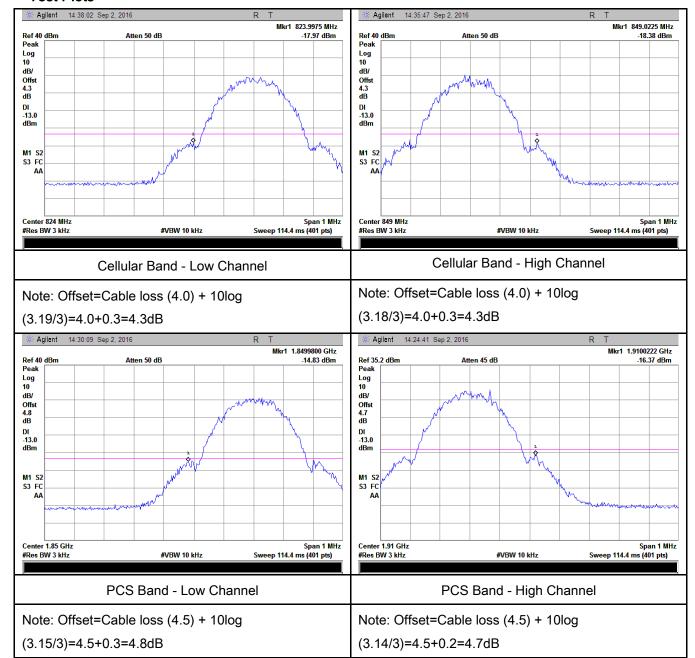
(3.17/3)=4.5+0.2=4.7dB



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#### **GPRS Mode:**

#### **Test Plots**





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### 6.8 Frequency Stability

| Temperature          | 25°C               |
|----------------------|--------------------|
| Relative Humidity    | 54%                |
| Atmospheric Pressure | 1002mbar           |
| Test date :          | September 02, 2016 |
| Tested By :          | Loren Luo          |

### Requirement(s):

| Spec       | Item   | Requirement   |                             |                     |                    | Applicable |
|------------|--------|---|-----------------------------|---------------------|--------------------|------------|
|            |        | According to §22.3 the Public Mobile S tolerances given in Frequency Toleran Services Frequency | Services mus<br>Table below | et be maintained w  | rithin the         |            |
|            |        | Range   | fixed                       | watts               | watts              |            |
| §2.1055,   |        | (MHz)   | (ppm)                       | (pp )               | (ppm)              |            |
| §22.355 &  | a)     | 25 to 50  | 20.0                        | 20.0                | 50.0               | <b>~</b>   |
| §24.235    | ر<br>ا | 50 to 450   | 5.0                         | 5.0                 | 50.0               | <u> </u>   |
| g24.200    |        | 45 to 512   | 2.5                         | 5.0                 | .0                 |            |
|            |        | 821 to 896  | 1.5                         | 2.5                 | 2.5                |            |
|            |        | 928 to 29.  | 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 §24.2  | .35, the frequ              | ency stability sha  | I be sufficient to |            |
|            |        | ensure that the fun   | damental en                 | nissions stay withi | n the authorized   |            |
|            |        | frequency block.  |                             |                     |                    |            |
| Test setup |        |   | 0                           |                     | <br>               |            |



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|           | A communication link was established between EUT and base station. The       |
|-----------|--|
|           | frequency error was monitored and measured by base station under variation   |
| Procedure | of ambient temperature and variation of primary supply voltage.              |
|           | Limit: The frequency stability of the transmitter shall be maintained within |
|           | ±0.00025% (±2.5ppm) of the center frequency.                                 |
| Remark    |  |
| Result    | Pass Fail  |

| Test Data | Yes             | □ <sub>N/A</sub> |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | ✓ <sub>N/A</sub> |



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### GSM Mode:

### Cellular Band (Part 22H) result

|                     | Middle Channel, f₀ = 836.6 MHz    |                            |                             |                |
|---------------------|-----------------------------------|----------------------------|-----------------------------|----------------|
| Temperature<br>(°C) | Power Supplied (V <sub>DC</sub> ) | Frequency<br>Error<br>(Hz) | Frequency<br>Error<br>(ppm) | Limit<br>(ppm) |
| -10                 |                                   | 21                         | 0.0251                      | 2.5            |
| 0                   |                                   | 19                         | 0.0227                      | 2.5            |
| 10                  | 3.7                               | 16                         | 0.0191                      | 2.5            |
| 20                  |                                   | 11                         | 0.0131                      | 2.5            |
| 30                  |                                   | 14                         | 0.0167                      | 2.5            |
| 40                  |                                   | 20                         | 0.0239                      | 2.5            |
| 50                  |                                   | 19                         | 0.0227                      | 2.5            |
| 55                  |                                   | 21                         | 0.0251                      | 2.5            |
| 25                  | 4.2                               | 21                         | 0.0251                      | 2.5            |
| 25                  | 3.5                               | 20                         | 0.0239                      | 2.5            |

### PCS Band (Part 24E) result

|                     | Middle Channel, f₀ = 1880 MHz     |                            |                       |                |
|---------------------|-----------------------------------|----------------------------|-----------------------|----------------|
| Temperature<br>(°C) | Power Supplied (V <sub>DC</sub> ) | Frequency<br>Error<br>(Hz) | Frequency Error (ppm) | Limit<br>(ppm) |
| -10                 |                                   | 13                         | 0.0069                | 2.5            |
| 0                   |                                   | 14                         | 0.0074                | 2.5            |
| 10                  | 3.7                               | 11                         | 0.0059                | 2.5            |
| 20                  |                                   | 10                         | 0.0053                | 2.5            |
| 30                  |                                   | 15                         | 0.0080                | 2.5            |
| 40                  |                                   | 16                         | 0.0085                | 2.5            |
| 50                  |                                   | 11                         | 0.0059                | 2.5            |
| 55                  |                                   | 13                         | 0.0069                | 2.5            |
| 25                  | 4.2                               | 17                         | 0.0090                | 2.5            |
| 25                  | 3.5                               | 21                         | 0.0112                | 2.5            |



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# Annex A. TEST INSTRUMENT

| Instrument                              | Model               | Serial #   | Cal Date   | Cal Due    | In use      |
|---|---------------------|------------|------------|------------|-------------|
| RF Conducted Test                       |                     |            |            |            |             |
| Agilent ESA-E SERIES SPECTRUM ANALYZER  | E4407B              | MY45108319 | 09/16/2015 | 09/15/2016 | <u> </u>    |
| Power Splitter                          | 1#                  | 1#         | 08/31/2016 | 08/30/2017 | >           |
| Universal Radio<br>Communication Tester | CMU200              | 121393     | 09/25/2015 | 09/24/2016 | <b>&gt;</b> |
| Temperature/Humidity Chamber            | UHL-270             | 001        | 10/09/2015 | 10/08/2016 | ~           |
| DC Power Supply                         | E3640A              | MY40004013 | 09/17/2015 | 09/16/2016 | ~           |
| Radiated Emissions                      |                     |            |            |            |             |
| EMI test receiver                       | ESL6                | 100262     | 09/17/2015 | 09/16/2016 | <           |
| OPT 010 AMPLIFIER<br>(0.1-1300MHz)      | 8447E               | 2727A02430 | 08/31/2016 | 08/30/2017 | <b>&lt;</b> |
| Microwave Preamplifier<br>(1 ~ 26.5GHz) | 8449B               | 3008A02402 | 03/24/2016 | 03/23/2017 | <b>\</b>    |
| Bilog Antenna<br>(30MHz~6GHz)           | JB6                 | A110712    | 09/21/2015 | 09/20/2016 | <u>\</u>    |
| Bilog Antenna<br>(30MHz~2GHz)           | JB1                 | A112017    | 09/21/2015 | 09/20/2016 | <b>\</b>    |
| Double Ridge Horn<br>Antenna (1 ~18GHz) | AH-118              | 71259      | 09/24/2015 | 09/23/2016 | <b>(</b>    |
| Double Ridge Horn<br>Antenna (1 ~18GHz) | AH-118              | 71283      | 09/24/2015 | 09/23/2016 | <u>&lt;</u> |
| SYNTHESIZED SIGNAL<br>GENERATOR         | 8665B               | 3744A01293 | 09/17/2015 | 09/16/2016 | <u>\</u>    |
| Tunable Notch Filter                    | 3NF-<br>800/1000-S  | AA4        | 08/31/2016 | 08/30/2017 | >           |
| Tunable Notch Filter                    | 3NF-<br>1000/2000-S | AM 4       | 08/31/2016 | 08/30/2017 | <b>&gt;</b> |



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## Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo





Whole Package View

Adapter - Front View

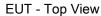


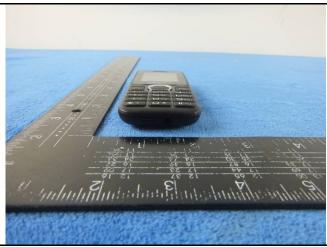


**EUT - Front View** 

**EUT - Rear View** 



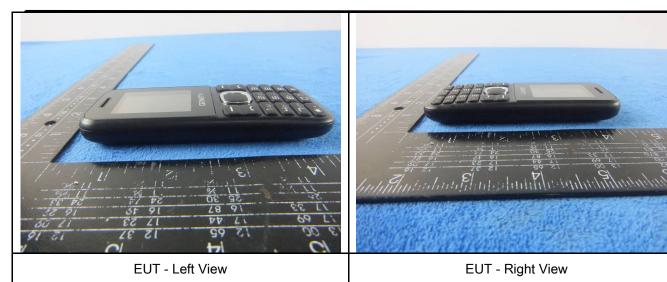




**EUT - Bottom View** 



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#### Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 1

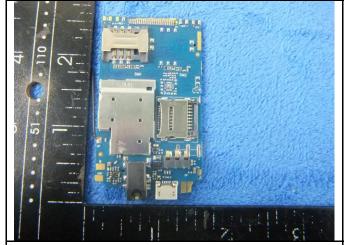
Cover Off - Top View 2







Battery - Rear View



Mainboard with Shielding - Front View



Mainboard without Shielding - Front View

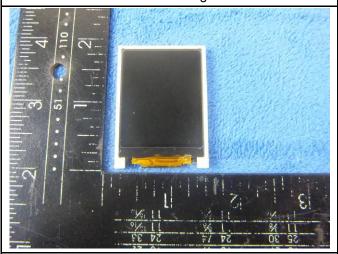


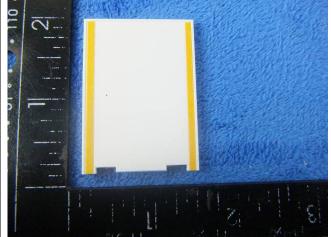
| Test Report | 16071033-FCC-R1 |
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Mainboard with Shielding - Rear View

Mainboard without Shielding - Rear View



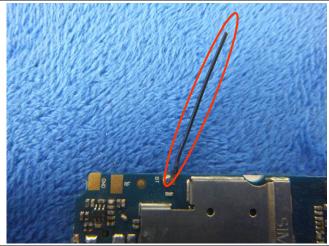


LCD - Front View

LCD - Rear View





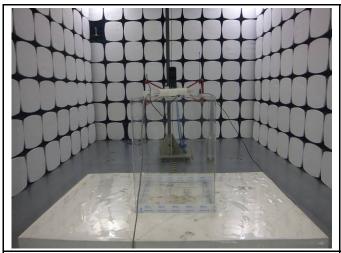


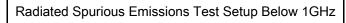
BT- Antenna View

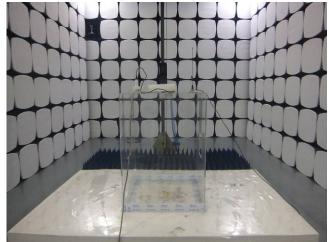


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## Annex B.iii. Photograph: Test Setup Photo







Radiated Spurious Emissions Test Setup Above 1GHz

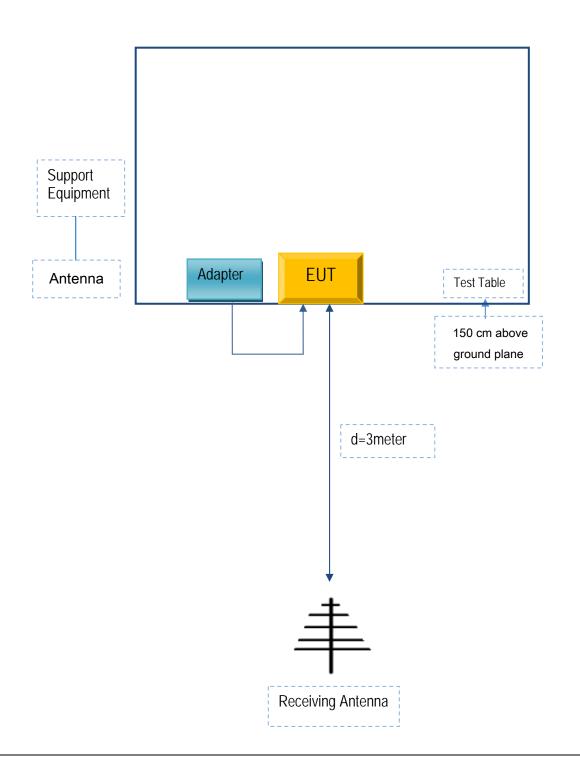


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## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

## Annex C.ii. TEST SET UP BLOCK

**Block Configuration Diagram for Radiated Emissions** 





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### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

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

### Supporting Equipment:

| Manufacturer | Equipment<br>Description | Model   | Serial No |
|--------------|--------------------------|---------|-----------|
| ESG group SA | AC Adapter               | GCH-001 | 001       |

### Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|------------|-------------|--------------|--------|-----------|
| N/A        | N/A         | N/A          | N/A    | N/A       |



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### Annex C.ii. EUT OPERATING CONKITIONS

N/A



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# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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## Annex E. DECLARATION OF SIMILARITY

N/A