

# FCC REPORT (Mobile Phone)

**Applicant:** Azumi S.A

**Address of Applicant:** Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza,  
Piso 16 of. 16-01, Marbella, Ciudad de Panama City, Rep.  
Panama

## Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: Q10G

**FCC ID:** QRP-AZUMIQ10G

**Applicable standards:** FCC CFR Title 47 Part 2: 2011  
FCC CFR Title 47 Part22 Subpart H: 2011  
FCC CFR Title 47 Part24 Subpart E: 2011

**Date of sample receipt:** 22 Oct., 2012

**Date of Test:** 22 Oct., to 25 Oct., 2012

**Date of report issued:** 25 Oct., 2012

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

## Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 25 Oct., 2012 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

**Prepared By:**

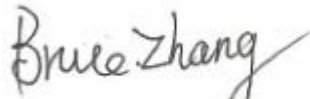


**Project Engineer**

**Date:**

25 Oct., 2012

**Check By:**



**Reviewer**

**Date:**

25 Oct., 2012

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### 3. Test Summary

| Test Item                              | Section in CFR 47                                    | Result                                  |
|----------------------------------------|------------------------------------------------------|-----------------------------------------|
| RF Exposure (SAR)                      | Part 1.1307<br>Part 2.1093                           | Passed*<br>(Please refer to SAR Report) |
| RF Output Power                        | Part 2.1046<br>Part 22.913 (a)(2)<br>Part 24.232 (c) | Pass                                    |
| Modulation Characteristics             | Part 2.1047                                          | Pass                                    |
| 99% & -26 dB Occupied Bandwidth        | Part 2.1049<br>Part 22.917<br>Part 24.238            | Pass                                    |
| Spurious Emissions at Antenna Terminal | Part 2.1051<br>Part 22.917 (a)<br>Part 24.238 (a)    | Pass                                    |
| Field Strength of Spurious Radiation   | Part 2.1053<br>Part 22.917 (a)<br>Part 24.238 (a)    | Pass                                    |
| Out of band emission, Band Edge        | Part 22.917 (a)<br>Part 24.238 (a)                   | Pass                                    |
| Frequency stability vs. temperature    | Part 2.1055(a)(1)(b)                                 | Pass                                    |
| Frequency stability vs. voltage        | Part 2.1055(d)(1)(2)                                 | Pass                                    |

*Pass: The EUT complies with the essential requirements in the standard.*

## 4. General Information

### 5.1 Client Information

|                          |                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Azumi S.A                                                                                                                         |
| Address of Applicant:    | Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama City, Rep. Panama      |
| Manufacturer:            | ZECHIN Technology Co., Ltd                                                                                                        |
| Address of Manufacturer: | Unit804,8th Floor Desay Tech Building Gaoxin Road South,Nanshan District Shenzhen,China                                           |
| Factory:                 | Longconn Electronics(Shenzhen) Co.;Ltd                                                                                            |
| Address of Factory:      | (Xinchuangji Industrial park) NO. 42,Xingye 1 Road,Phoenix 1st Industrial Zone,Fuyong Town,Baoan District, Shenzhen,518103 ,China |

### 5.2 General Description of E.U.T.

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| Product Name:              | Mobile Phone                                                   |
| Model No.:                 | Q10G                                                           |
| Operation Frequency range: | GSM 850: 824.20MHz-848.80MHz<br>PCS1900: 1850.20MHz-1909.80MHz |
| Type of Emission:          | 245KGXW                                                        |
| IMEI:                      | IMEI 1:355861041319423                                         |
| Software Version:          | AZUMI-TELCEL-Q10g-021012                                       |
| Hardware Version:          | AZUMI-TELCEL-Q10g-4.0                                          |
| Antenna type:              | PIFA Antenna                                                   |
| Antenna gain:              | GSM850: -1 dBi<br>PCS1900: 1 dBi                               |
| AC adapter:                | Input:100-240V AC,50/60Hz 0.15A<br>Output:5V DC MAX 400mA      |
| Power supply:              | Rechargeable Li-ion Battery DC3.7V/850mAh                      |

Operation Frequency List:

| GSM 850  |                 | PCS1900  |                 |
|----------|-----------------|----------|-----------------|
| Channel: | Frequency (MHz) | Channel: | Frequency (MHz) |
| 128      | 824.20          | 512      | 1850.20         |
| 129      | 824.40          | 513      | 1850.40         |
| ....     | ....            | ....     | ....            |
| 189      | 836.40          | 660      | 1879.80         |
| 190      | 836.60          | 661      | 1880.00         |
| 191      | 836.80          | 662      | 1880.20         |
| ...      | ...             | ...      | ...             |
| 250      | 848.60          | 809      | 1909.60         |
| 251      | 848.80          | 810      | 1909.80         |

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| GSM850          |         |                | PCS1900         |         |                |
|-----------------|---------|----------------|-----------------|---------|----------------|
|                 | Channel | Frequency(MHz) |                 | Channel | Frequency(MHz) |
| Lowest channel  | 128     | 824.20         | Lowest channel  | 512     | 1850.20        |
| Middle channel  | 190     | 836.60         | Middle channel  | 661     | 1880.00        |
| Highest channel | 251     | 848.80         | Highest channel | 810     | 1909.80        |

### 5.3 Test mode:

|                                                                                                 |                                                      |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Communicate mode (GSM850)                                                                       | Keep the EUT in communicating mode on GSM850 band.   |
| Communicate mode (PCS1900)                                                                      | Keep the EUT in communicating mode on PCS1900 band.  |
| Communicate mode (GPRS850)                                                                      | Keep the EUT in communicating mode on GPRS850 band.  |
| Communicate mode (GPRS1900)                                                                     | Keep the EUT in communicating mode on GPRS1900 band. |
| Remarks:<br>Pre-tested all Modes, and found the GSM 850 and GSM 1900 were the worst case modes. |                                                      |

### 5.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

### 5.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

### 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.:** 817957

China Certification & Inspection Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 817957, February 27, 2012

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

### 5.7 Test Location

All tests were performed at:

China Certification & Inspection Services Co., Ltd.

Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-23118282

Fax: 0755-23116366

## 5.8 Test Instruments list

| Radiated Emission: |                               |                                      |                             |               |                     |                         |
|--------------------|-------------------------------|--------------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                | Manufacturer                         | Model No.                   | Inventory No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| 1                  | 3m Semi- Anechoic Chamber     | SAEMC                                | 9(L)*6(W)* 6(H)             | CCIS0001      | June 09 2012        | June 09 2013            |
| 2                  | Control Room                  | ZhongYu Electron                     | 6.2(L)*2.5(W)* 2.4(H)       | CCIS0002      | N/A                 | N/A                     |
| 3                  | BiConiLog Antenna             | SCHWARZBECK<br>MESS-ELEKTRONIK       | VULB9163                    | CCIS0005      | June 04 2012        | June 04 2013            |
| 4                  | Double -ridged waveguide horn | SCHWARZBECK<br>MESS-ELEKTRONIK       | BBHA9120D                   | CCIS0006      | May 30 2012         | May 30 2013             |
| 5                  | EMI Test Software             | AUDIX                                | E3                          | N/A           | N/A                 | N/A                     |
| 6                  | Coaxial Cable                 | CCIS                                 | N/A                         | CCIS0016      | Apr. 01 2012        | Apr. 01 2013            |
| 7                  | Coaxial Cable                 | CCIS                                 | N/A                         | CCIS0017      | Apr. 01 2012        | Apr. 01 2013            |
| 8                  | Coaxial cable                 | CCIS                                 | N/A                         | CCIS0018      | Apr. 01 2012        | Apr. 01 2013            |
| 9                  | Coaxial Cable                 | CCIS                                 | N/A                         | CCIS0019      | Apr. 01 2012        | Apr. 01 2013            |
| 10                 | Coaxial Cable                 | CCIS                                 | N/A                         | CCIS0087      | Apr. 01 2012        | Apr. 01 2013            |
| 11                 | Amplifier(10KHz-1.3GHz)       | HP                                   | 8447D                       | CCIS0003      | Apr. 01 2012        | Apr. 01 2013            |
| 12                 | Amplifier(1GHz-18GHz)         | Compliance<br>Direction Systems Inc. | PAP-1G18                    | CCIS0011      | June 09 2012        | June 09 2013            |
| 13                 | Pre-amplifier (18-26GHz)      | Rohde & Schwarz                      | AFS33-18002<br>650-30-8P-44 | GTS218        | Apr. 01 2012        | Mar. 31 2013            |
| 14                 | Horn Antenna                  | ETS-LINDGREN                         | 3160                        | GTS217        | Mar. 30 2012        | Mar. 29 2013            |
| 15                 | CMU200                        | RoHDE&SCHWARZ                        | 1100.0008.02                | CCIS0069      | May. 29 2012        | May. 29 2013            |



## 5. System test configuration

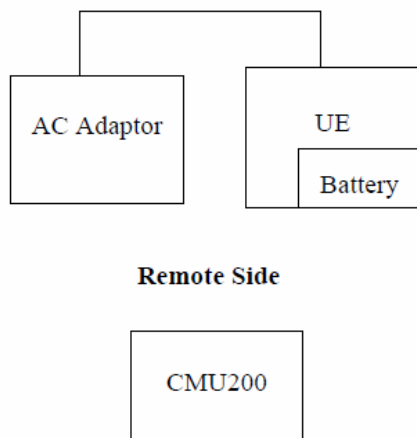
### 6.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 6.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

### 6.3 Configuration of Tested System



### 6.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.  
EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.  
The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for both GSM/PCS with power adaptor, earphone and Data cable. The worst-case H mode for GSM 850 band, PCS1900 band.

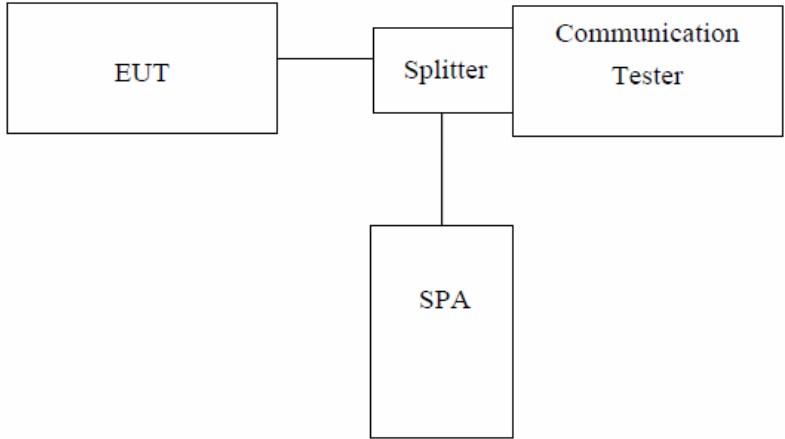
## 6.5 Conducted Output Power

|                   |                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                            |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                     |
| Limit:            | GSM850 7W<br>PCS1900 2W                                                                                                                                                                                            |
| Test setup:       | <div><pre>graph LR; EUT[EUT] --- Splitter[Splitter]; Splitter --- CT[Communication Tester]; Splitter --- SA[Spectrum analyzer];</pre></div> <p><i>Note: Measurement setup for testing on Antenna connector</i></p> |
| Test Procedure:   | The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the power meter. Transmitter output was read off the power meter in dBm.                                  |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                   |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                   |
| Test results:     | Passed                                                                                                                                                                                                             |

### Measurement Data

| EUT Mode                     | Channel | Frequency (MHz) | PK power (dBm) | Limit(dBm) | Result |
|------------------------------|---------|-----------------|----------------|------------|--------|
| GSM 850                      | 128     | 824.20          | 32.25          | 38.45      | Pass   |
|                              | 190     | 836.60          | 32.28          |            |        |
|                              | 251     | 848.80          | 32.64          |            |        |
| PCS 1900                     | 512     | 1850.20         | 29.64          | 33.00      | Pass   |
|                              | 661     | 1880.00         | 29.61          |            |        |
|                              | 810     | 1909.80         | 29.47          |            |        |
| GPRS 850<br>(1 Uplink slot)  | 128     | 824.20          | 32.14          | 38.45      | Pass   |
|                              | 190     | 836.60          | 32.23          |            |        |
|                              | 251     | 848.80          | 32.34          |            |        |
| GPRS 1900<br>(1 Uplink slot) | 512     | 1850.20         | 29.31          | 33.00      | Pass   |
|                              | 661     | 1880.00         | 29.14          |            |        |
|                              | 810     | 1909.80         | 29.04          |            |        |
| GPRS 850<br>(2 Uplink slot)  | 128     | 824.20          | 31.78          | 38.45      | Pass   |
|                              | 190     | 836.60          | 31.87          |            |        |
|                              | 251     | 848.80          | 31.98          |            |        |
| GPRS 1900<br>(2 Uplink slot) | 512     | 1850.20         | 29.07          | 33.00      | Pass   |
|                              | 661     | 1880.00         | 29.01          |            |        |
|                              | 810     | 1909.80         | 28.87          |            |        |

## 6.6 Occupy Bandwidth

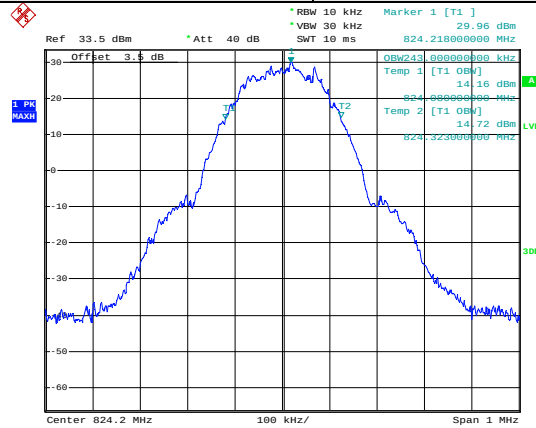
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC part2.1049                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Measurement Data

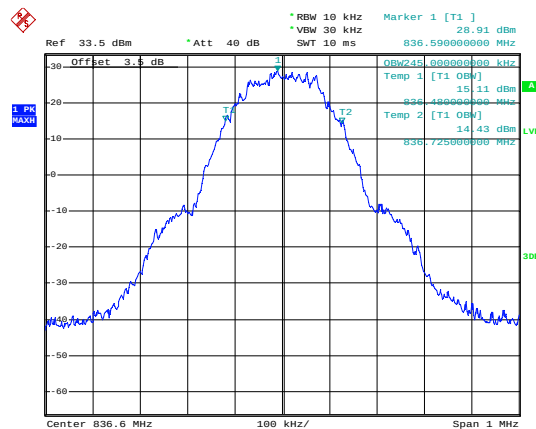
| EUT Mode | Channel | Frequency (MHz) | 99% Occupy bandwidth (kHz) | -26dB bandwidth (kHz) |
|----------|---------|-----------------|----------------------------|-----------------------|
| GSM 850  | 128     | 824.21          | 243                        | 316                   |
|          | 190     | 836.59          | 245                        | 308                   |
|          | 251     | 848.79          | 243                        | 316                   |
| PCS 1900 | 512     | 1850.26         | 242                        | 322                   |
|          | 661     | 1880.01         | 244                        | 318                   |
|          | 810     | 1909.77         | 244                        | 314                   |

Test plot as follows:

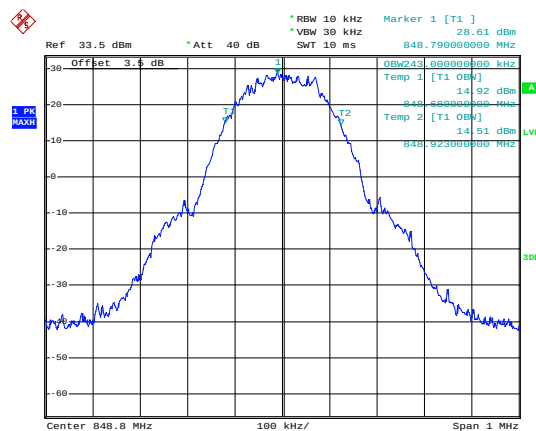
|            |                      |            |        |
|------------|----------------------|------------|--------|
| Test Item: | 99% Occupy bandwidth | Test Mode: | GSM850 |
|------------|----------------------|------------|--------|



Lowest channel

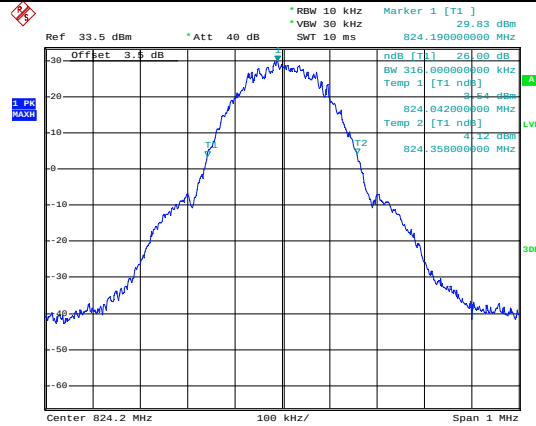


Middle channel

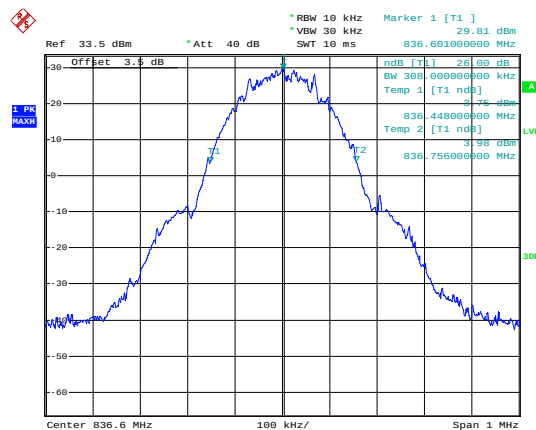


Highest channel

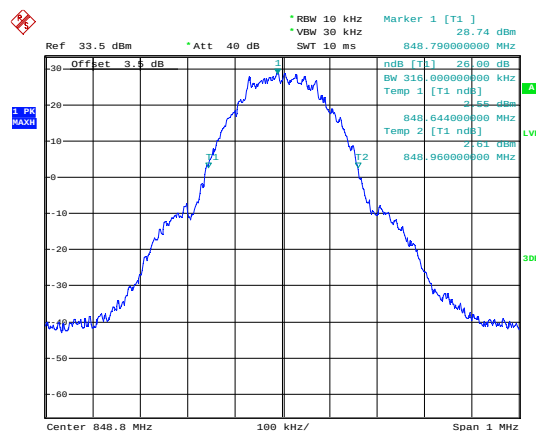
|            |                 |            |        |
|------------|-----------------|------------|--------|
| Test Item: | -26dB bandwidth | Test Mode: | GSM850 |
|------------|-----------------|------------|--------|



Lowest channel

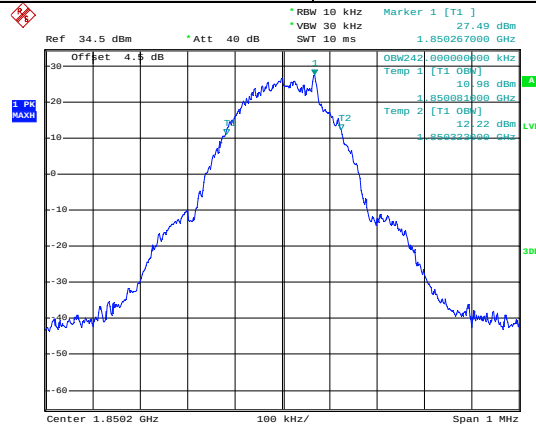


Middle channel

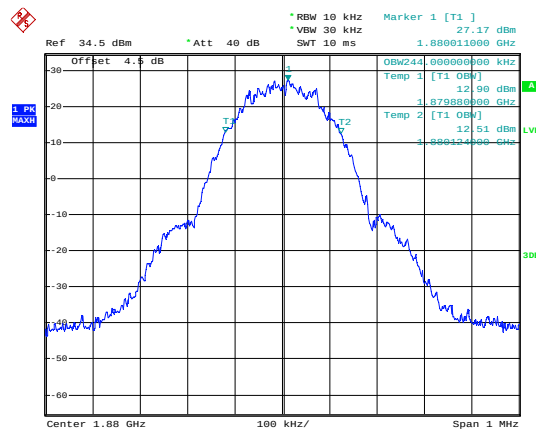


Highest channel

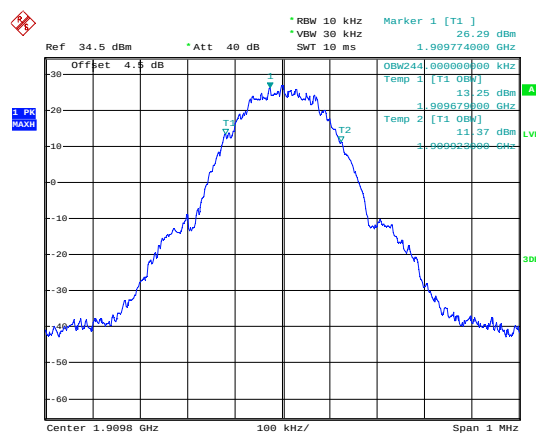
|            |                         |            |          |
|------------|-------------------------|------------|----------|
| Test Item: | 99% Occupancy bandwidth | Test Mode: | PCS 1900 |
|------------|-------------------------|------------|----------|



Lowest channel

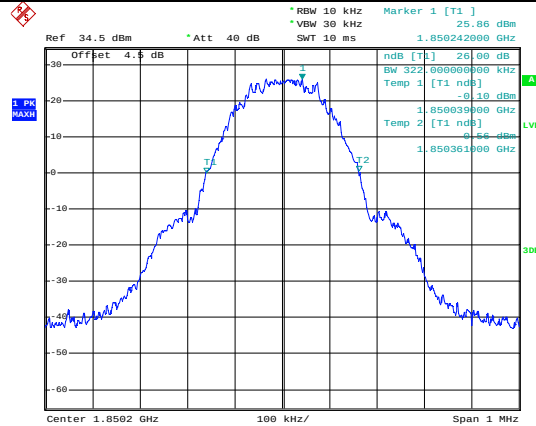


Middle channel

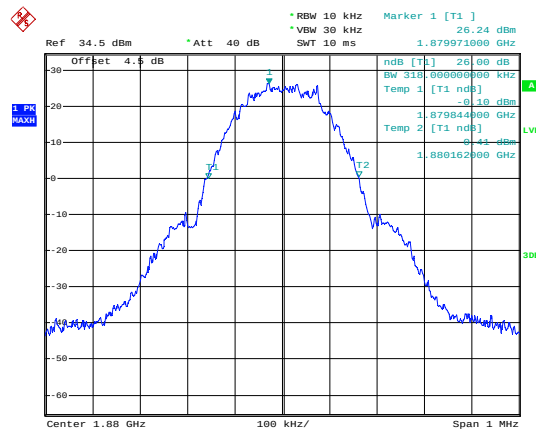


Highest channel

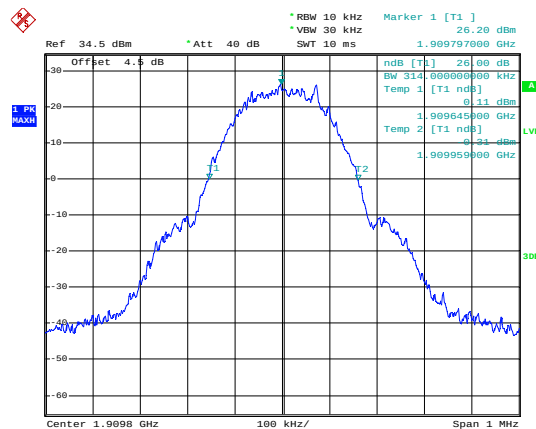
|            |                 |            |          |
|------------|-----------------|------------|----------|
| Test Item: | -26dB bandwidth | Test Mode: | PCS 1900 |
|------------|-----------------|------------|----------|



Lowest channel



Middle channel



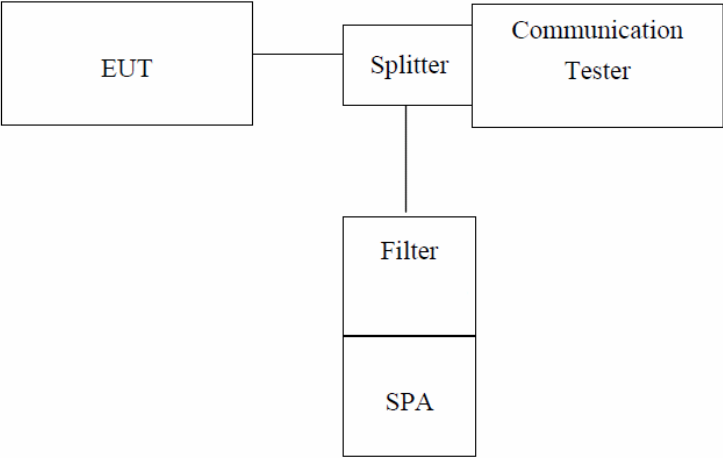
Highest channel



## 6.7 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.

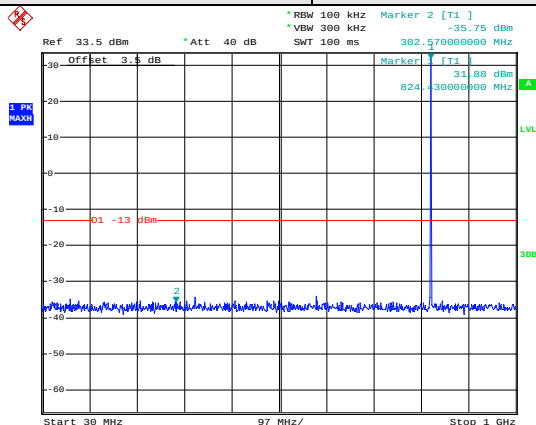
## 6.8 Out of band emission at antenna terminals

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.917(a) and FCC part24.238(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC part2.1051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Limit:            | -13dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 The resolution bandwidth of the spectrum analyzer was set at 1MHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.</li> <li>4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

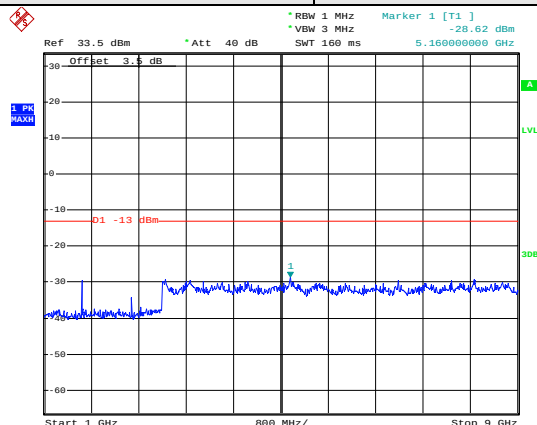
Test plot as follows:

## Spurious emission

|            |        |               |                |
|------------|--------|---------------|----------------|
| Test Mode: | GSM850 | Test Channel: | Lowest channel |
|------------|--------|---------------|----------------|

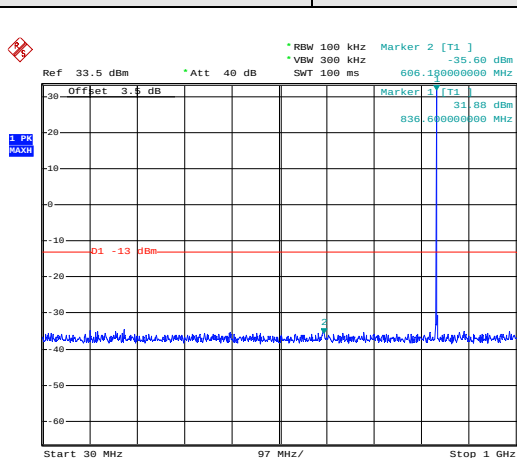


30MHz~1GHz

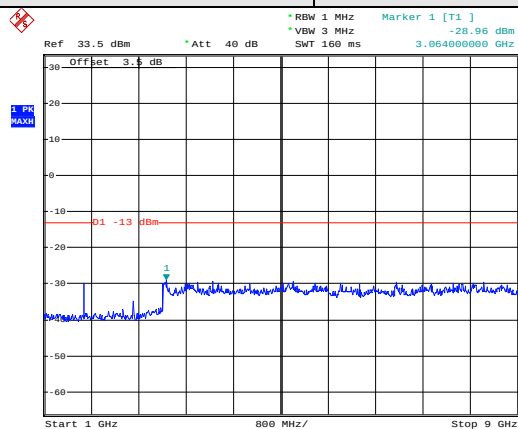


1GHz~9GHz

|            |        |               |                |
|------------|--------|---------------|----------------|
| Test Mode: | GSM850 | Test Channel: | Middle channel |
|------------|--------|---------------|----------------|



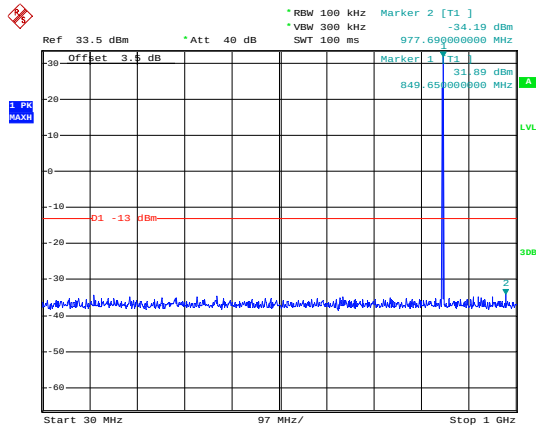
30MHz~1GHz



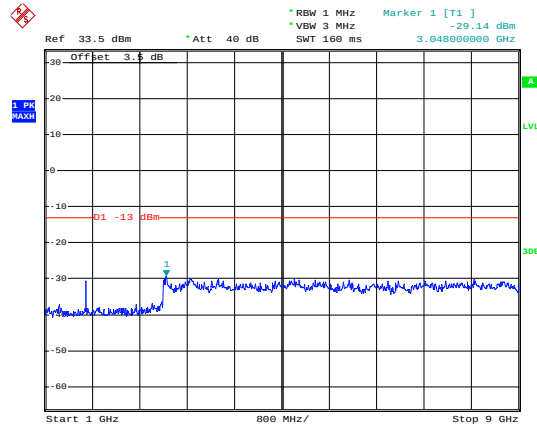
1GHz~9GHz

Date: 24.OCT.2012 04:05:42

|            |        |               |                 |
|------------|--------|---------------|-----------------|
| Test Mode: | GSM850 | Test Channel: | Highest channel |
|------------|--------|---------------|-----------------|

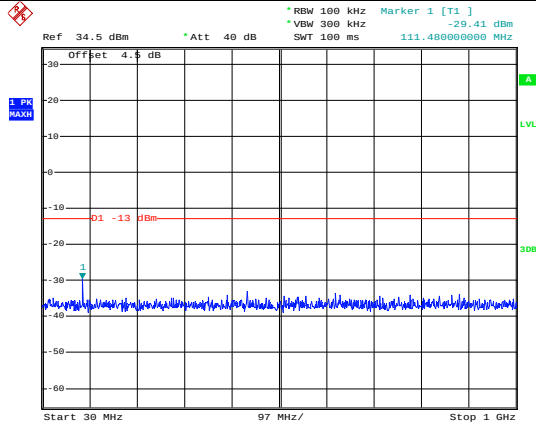


30MHz~1GHz

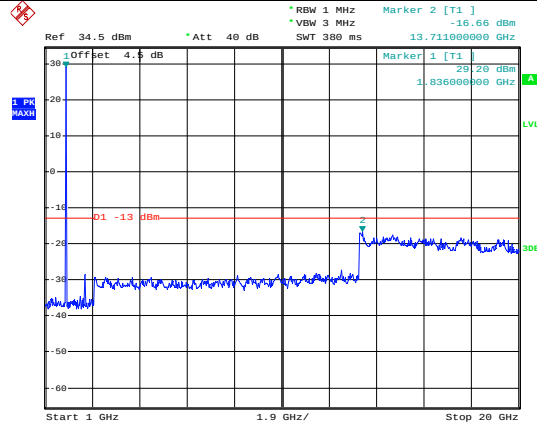


1GHz~9GHz

|            |         |               |                |
|------------|---------|---------------|----------------|
| Test Mode: | PCS1900 | Test Channel: | Lowest channel |
|------------|---------|---------------|----------------|

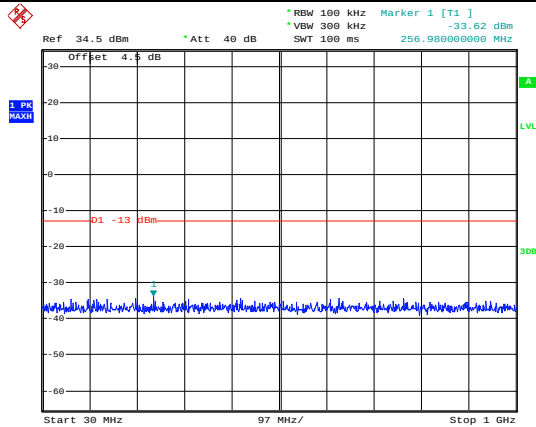


30MHz~1GHz

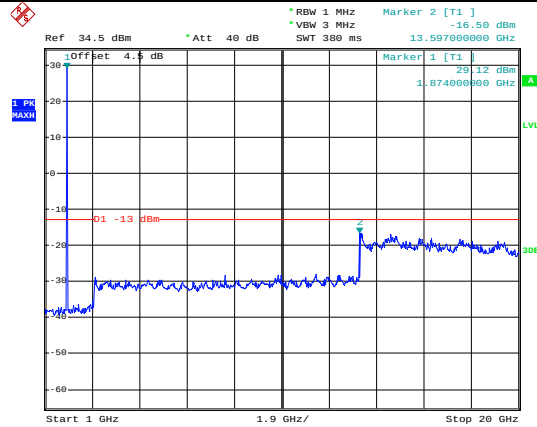


1GHz~20GHz

|            |         |               |                |
|------------|---------|---------------|----------------|
| Test Mode: | PCS1900 | Test Channel: | Middle channel |
|------------|---------|---------------|----------------|

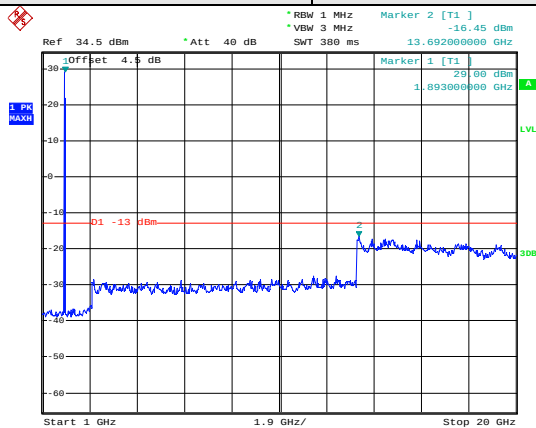


30MHz~1GHz

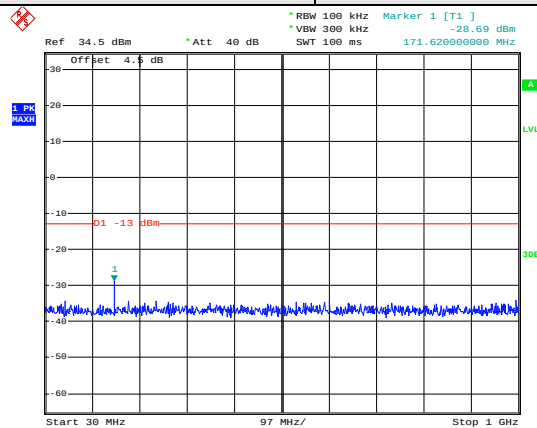


1GHz~20GHz

|            |         |               |                 |
|------------|---------|---------------|-----------------|
| Test Mode: | PCS1900 | Test Channel: | Highest channel |
|------------|---------|---------------|-----------------|



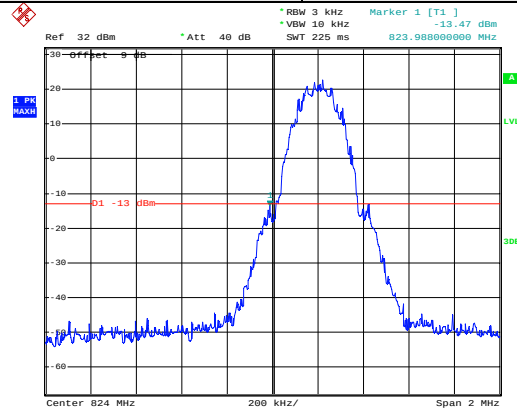
30MHz~1GHz



1GHz~20GHz

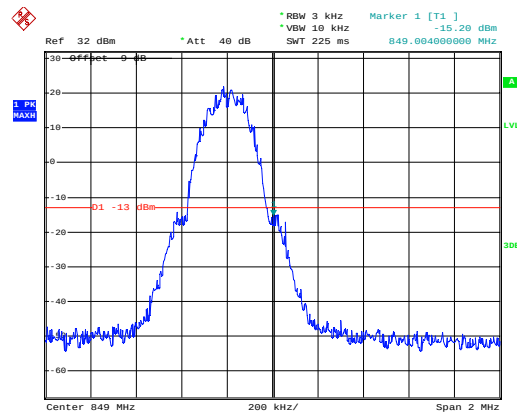
## Band edge emission:

|            |        |
|------------|--------|
| Test Mode: | GSM850 |
|------------|--------|



Date: 26.OCT.2012 10:01:20

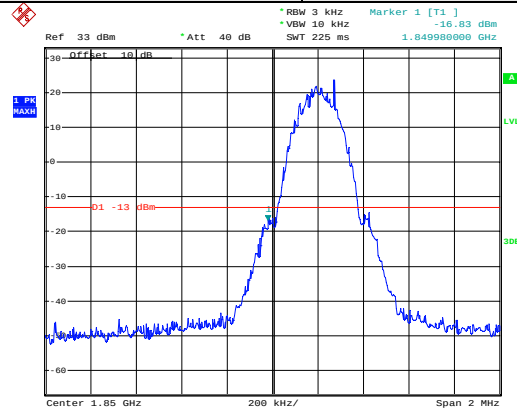
## Lowest channel



Date: 26.OCT.2012 10:01:46

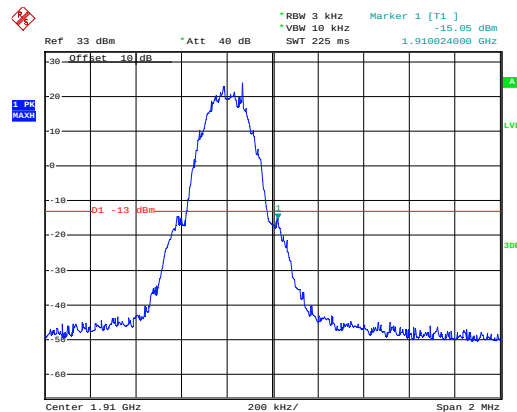
## Highest channel

|            |         |
|------------|---------|
| Test Mode: | PCS1900 |
|------------|---------|



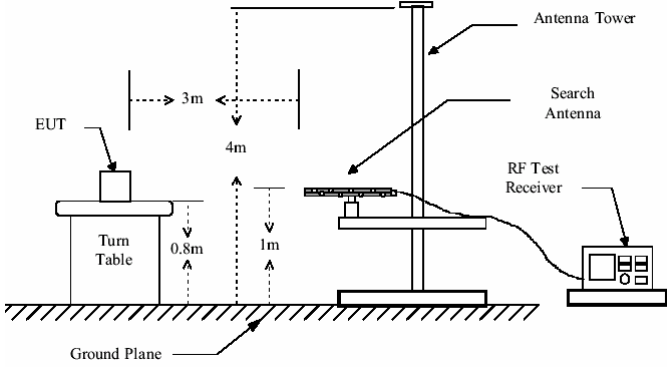
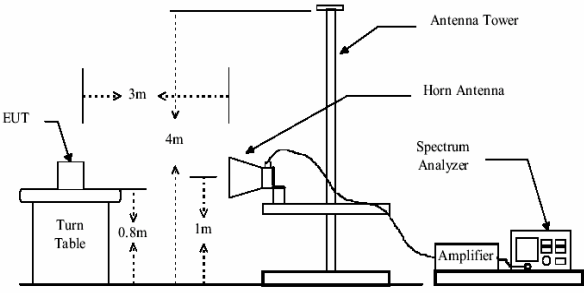
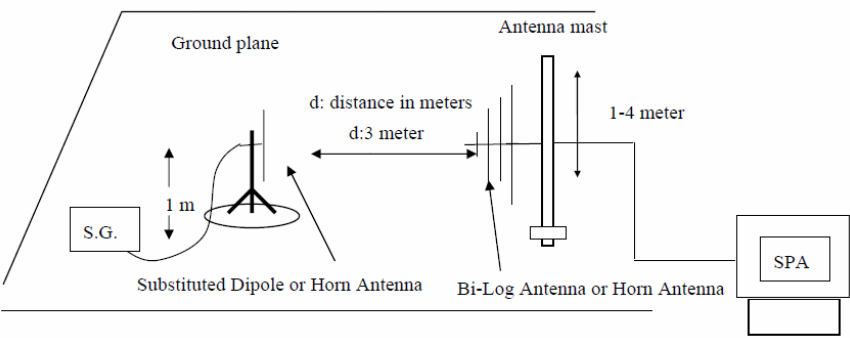
Date: 26.OCT.2012 10:00:23

## Lowest channel



Date: 26.OCT.2012 09:59:35

## ERP, EIRP Measurement

|                   |                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                                                                                                                                     |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                                                                                                                              |
| Limit:            | GSM850 7W ERP<br>PCS1900 2W EIRP                                                                                                                                                                                                                                                                                            |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"><li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li><li>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li><li>3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:<br/><math display="block">\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}</math></li><li>4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:<br/><math display="block">\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}</math></li><li>5. The worse case was relating to the conducted output power.</li></ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

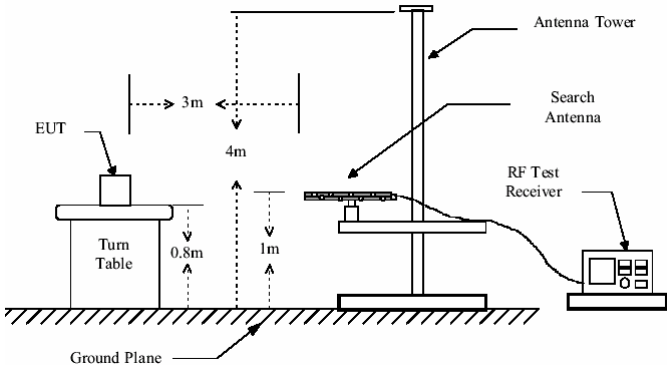
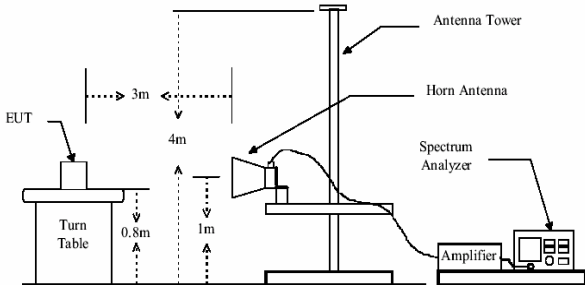
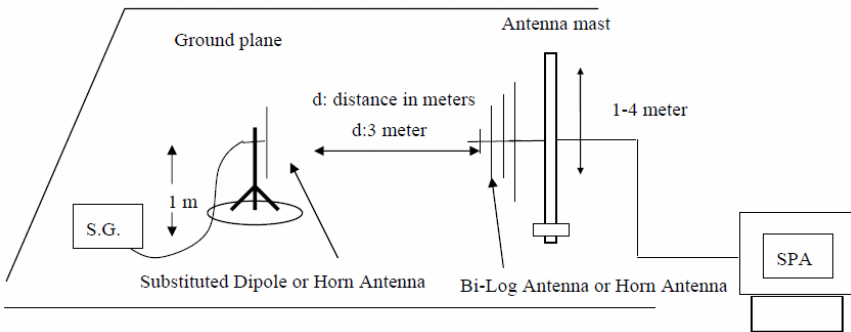
## Measurement Data (worse case)



| EUT mode | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|----------|---------|----------|--------------|----------|-------------|--------|
| GSM850   | 128     | H        | V            | 31.47    | 38.45       | Pass   |
|          |         |          | H            | 25.51    |             |        |
|          |         | E1       | V            | 31.21    |             |        |
|          |         |          | H            | 25.12    |             |        |
|          |         | E2       | V            | 31.34    |             |        |
|          |         |          | H            | 25.42    |             |        |

| EUT mode | Channel | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------|---------|----------|--------------|-----------|-------------|--------|
| PCS1900  | 512     | H        | V            | 22.32     | 33.00       | Pass   |
|          |         |          | H            | 21.32     |             |        |
|          |         | E1       | V            | 22.45     |             |        |
|          |         |          | H            | 21.36     |             |        |
|          |         | E2       | V            | 22.54     |             |        |
|          |         |          | H            | 21.63     |             |        |

## 6.9 Field strength of spurious radiation measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.917(a) and FCC part24.238(a)                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Method:      | FCC part2.1053                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Limit:            | -13dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>                                                                                                                                          |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT</li> </ol> |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <p>positioned in each of its three orthogonal orientations.</p> <p>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.</p> <p>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.</p> <p>ERP / EIRP = S.G. output (dBm) + Antenna Gain(dBd/dBi) – Cable Loss (dB)</p> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Measurement Data

| Test mode:      | GSM850            |             | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|--------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result |
|                 | Polarization      | Level (dBm) |               |        |
| 1648.40         | Vertical          | -36.72      | -13.00        | Pass   |
| 2472.60         | V                 | -39.29      |               |        |
| 3296.80         | V                 | -42.32      |               |        |
| 4121.00         | V                 | -45.26      |               |        |
| 4945.20         | V                 | ---         |               |        |
| 5769.40         | V                 | ---         |               |        |
| 1648.40         | Horizontal        | -36.21      | -13.00        | Pass   |
| 2472.60         | H                 | -39.14      |               |        |
| 3296.80         | H                 | -42.36      |               |        |
| 4121.00         | H                 | -46.31      |               |        |
| 4945.20         | H                 | ---         |               |        |
| 5769.40         | H                 | ---         |               |        |
| Test mode:      | GSM850            |             | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result |
|                 | Polarization      | Level (dBm) |               |        |
| 1673.20         | Vertical          | -36.25      | -13.00        | Pass   |
| 2509.80         | V                 | -36.38      |               |        |
| 3346.40         | V                 | -38.65      |               |        |
| 4183.00         | V                 | -39.14      |               |        |
| 5019.60         | V                 | ---         |               |        |
| 5856.20         | V                 | ---         |               |        |
| 1673.20         | Horizontal        | -39.35      | -13.00        | Pass   |
| 2509.80         | H                 | -40.45      |               |        |
| 3346.40         | H                 | -41.15      |               |        |
| 4183.00         | H                 | -43.15      |               |        |
| 5019.60         | H                 | ---         |               |        |
| 5856.20         | H                 | ---         |               |        |

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | GSM850            |             | Test channel: | Highest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1697.60         | Vertical          | -36.35      | -13.00        | Pass    |
| 2546.40         | V                 | -35.15      |               |         |
| 3395.20         | V                 | -36.01      |               |         |
| 4244.00         | V                 | -38.20      |               |         |
| 5092.80         | V                 | ---         |               |         |
| 5941.60         | V                 | ---         |               |         |
| 1697.60         | Horizontal        | -32.25      | -13.00        | Pass    |
| 2546.40         | H                 | -36.14      |               |         |
| 3395.20         | H                 | -42.42      |               |         |
| 4244.00         | H                 | -45.21      |               |         |
| 5092.80         | H                 | ---         |               |         |
| 5941.60         | H                 | ---         |               |         |
| Test mode:      | PCS1900           |             | Test channel: | Lowest  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3700.40         | Vertical          | -36.25      | -13.00        | Pass    |
| 5550.60         | V                 | -39.44      |               |         |
| 7400.80         | V                 | -40.51      |               |         |
| 9251.00         | V                 | -45.41      |               |         |
| 11101.20        | V                 | ---         |               |         |
| 12951.40        | V                 | ---         |               |         |
| 3700.40         | Horizontal        | -36.44      | -13.00        | Pass    |
| 5550.60         | H                 | -38.51      |               |         |
| 7400.80         | H                 | -43.41      |               |         |
| 9251.00         | H                 | -44.51      |               |         |
| 11101.20        | H                 | ---         |               |         |
| 12951.40        | H                 | ---         |               |         |

Remark :

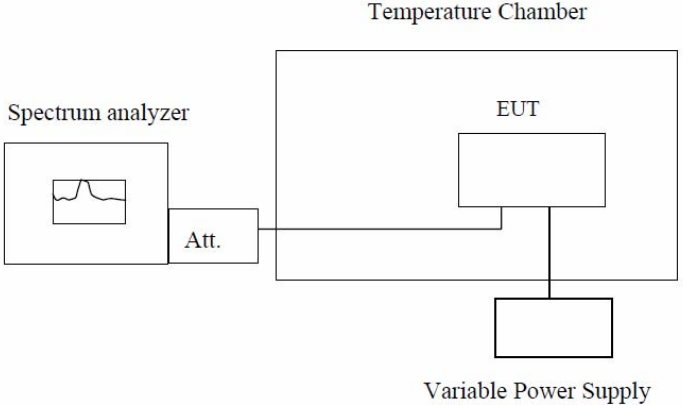
1. The emission behavior belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | PCS1900           |             | Test channel: | Middle  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3760.00         | Vertical          | -36.21      | -13.00        | Pass    |
| 5640.00         | V                 | -40.14      |               |         |
| 7520.00         | V                 | -41.24      |               |         |
| 9400.00         | V                 | -42.81      |               |         |
| 11280.00        | V                 | ---         |               |         |
| 13160.00        | V                 | ---         |               |         |
| 3760.00         | Horizontal        | -38.14      | -13.00        | Pass    |
| 5640.00         | H                 | -40.13      |               |         |
| 7520.00         | H                 | -42.46      |               |         |
| 9400.00         | H                 | -45.41      |               |         |
| 11280.00        | H                 | ---         |               |         |
| 13160.00        | H                 | ---         |               |         |
| Test mode:      | PCS1900           |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3819.60         | Vertical          | -35.21      | -13.00        | Pass    |
| 5729.40         | V                 | -40.16      |               |         |
| 7639.20         | V                 | -41.55      |               |         |
| 9549.00         | V                 | -42.46      |               |         |
| 11458.80        | V                 | ---         |               |         |
| 13368.60        | V                 | ---         |               |         |
| 3819.60         | Horizontal        | -35.52      | -13.00        | Pass    |
| 5729.40         | H                 | -40.74      |               |         |
| 7639.20         | H                 | -42.41      |               |         |
| 9549.00         | H                 | -43.42      |               |         |
| 11458.80        | H                 | ---         |               |         |
| 13368.60        | H                 | ---         |               |         |

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

## 6.10 Frequency stability V.S. Temperature measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Method:      | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test setup:       |  <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Measurement Data**

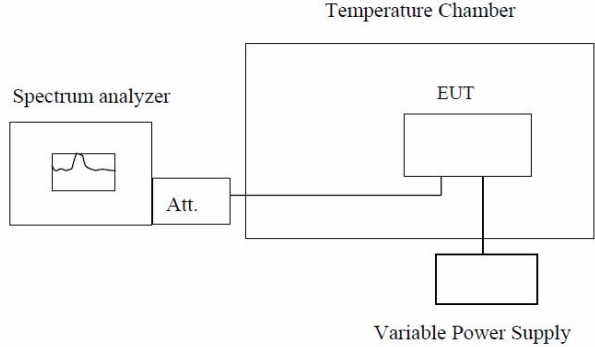
| Reference Frequency: GSM850 Lowest channel=128 channel=824.2MHz   |                 |                 |          |             |        |
|-------------------------------------------------------------------|-----------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)                                              | Temperature (℃) | Frequency error |          | Limit (ppm) | Result |
|                                                                   |                 | Hz              | ppm      |             |        |
| 3.70                                                              | -30             | 35              | 0.042465 | 2.5         | Pass   |
|                                                                   | -20             | 45              | 0.054598 |             |        |
|                                                                   | -10             | 42              | 0.050959 |             |        |
|                                                                   | 0               | 42              | 0.050959 |             |        |
|                                                                   | 10              | 35              | 0.042465 |             |        |
|                                                                   | 20              | 38              | 0.046105 |             |        |
|                                                                   | 30              | 49              | 0.059452 |             |        |
|                                                                   | 40              | 50              | 0.060665 |             |        |
|                                                                   | 50              | 42              | 0.050959 |             |        |
| Reference Frequency: PCS1900 Lowest channel=512 channel=1850.2MHz |                 |                 |          |             |        |
| Power supplied (Vdc)                                              | Temperature (℃) | Frequency error |          |             | Result |
|                                                                   |                 | Hz              | ppm      |             |        |
| 3.70                                                              | -30             | 34              | 0.018376 | 2.5         | Pass   |
|                                                                   | -20             | 35              | 0.018917 |             |        |
|                                                                   | -10             | 26              | 0.014053 |             |        |
|                                                                   | 0               | 34              | 0.018376 |             |        |
|                                                                   | 10              | 42              | 0.022700 |             |        |
|                                                                   | 20              | 46              | 0.024862 |             |        |
|                                                                   | 30              | 38              | 0.020538 |             |        |
|                                                                   | 40              | 45              | 0.024322 |             |        |
|                                                                   | 50              | 48              | 0.025943 |             |        |



| Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz |                 |                 |          |             |        |
|-----------------------------------------------------------------|-----------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)                                            | Temperature (℃) | Frequency error |          | Limit (ppm) | Result |
|                                                                 |                 | Hz              | ppm      |             |        |
| 3.70                                                            | -30             | 42              | 0.050203 | 2.5         | Pass   |
|                                                                 | -20             | 25              | 0.029883 |             |        |
|                                                                 | -10             | 35              | 0.041836 |             |        |
|                                                                 | 0               | 48              | 0.057375 |             |        |
|                                                                 | 10              | 46              | 0.054984 |             |        |
|                                                                 | 20              | 54              | 0.064547 |             |        |
|                                                                 | 30              | 58              | 0.069328 |             |        |
|                                                                 | 40              | 54              | 0.064547 |             |        |
|                                                                 | 50              | 46              | 0.054984 |             |        |
| Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz |                 |                 |          |             |        |
| Power supplied (Vdc)                                            | Temperature (℃) | Frequency error |          |             | Result |
|                                                                 |                 | Hz              | ppm      |             |        |
| 3.70                                                            | -30             | 42              | 0.022340 | 2.5         | Pass   |
|                                                                 | -20             | 35              | 0.018617 |             |        |
|                                                                 | -10             | 41              | 0.021809 |             |        |
|                                                                 | 0               | 48              | 0.025532 |             |        |
|                                                                 | 10              | 54              | 0.028723 |             |        |
|                                                                 | 20              | 45              | 0.023936 |             |        |
|                                                                 | 30              | 41              | 0.021809 |             |        |
|                                                                 | 40              | 46              | 0.024468 |             |        |
|                                                                 | 50              | 48              | 0.025532 |             |        |

| Reference Frequency: GSM850 Highest channel=251 channel=848.8 MHz  |                 |                 |          |             |        |
|--------------------------------------------------------------------|-----------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)                                               | Temperature (℃) | Frequency error |          | Limit (ppm) | Result |
|                                                                    |                 | Hz              | ppm      |             |        |
| 3.70                                                               | -30             | 42              | 0.049482 | 2.5         | Pass   |
|                                                                    | -20             | 36              | 0.042413 |             |        |
|                                                                    | -10             | 32              | 0.037700 |             |        |
|                                                                    | 0               | 41              | 0.048303 |             |        |
|                                                                    | 10              | 48              | 0.056550 |             |        |
|                                                                    | 20              | 42              | 0.049482 |             |        |
|                                                                    | 30              | 36              | 0.042413 |             |        |
|                                                                    | 40              | 35              | 0.041235 |             |        |
|                                                                    | 50              | 48              | 0.056550 |             |        |
| Reference Frequency: PCS1900 Highest channel=810 channel=1909.8MHz |                 |                 |          |             |        |
| Power supplied (Vdc)                                               | Temperature (℃) | Frequency error |          |             | Result |
|                                                                    |                 | Hz              | ppm      |             |        |
| 3.70                                                               | -30             | 36              | 0.018850 | 2.5         | Pass   |
|                                                                    | -20             | 35              | 0.018327 |             |        |
|                                                                    | -10             | 42              | 0.021992 |             |        |
|                                                                    | 0               | 42              | 0.021992 |             |        |
|                                                                    | 10              | 41              | 0.021468 |             |        |
|                                                                    | 20              | 48              | 0.025134 |             |        |
|                                                                    | 30              | 37              | 0.019374 |             |        |
|                                                                    | 40              | 39              | 0.020421 |             |        |
|                                                                    | 50              | 37              | 0.019374 |             |        |

## 6.11 Frequency stability V.S. Voltage measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Method:      | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                       |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Measurement Data

| Reference Frequency: GSM850 Lowest channel=128 channel=824.2MHz   |                      |                 |          |             |        |
|-------------------------------------------------------------------|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)                                                  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|                                                                   |                      | Hz              | ppm      |             |        |
| 25                                                                | 4.25                 | 42              | 0.050959 | 2.5         | Pass   |
|                                                                   | 3.70                 | 42              | 0.050959 |             |        |
|                                                                   | 3.40                 | 41              | 0.049745 |             |        |
| Reference Frequency: PCS1900 Lowest channel=512 channel=1850.2MHz |                      |                 |          |             |        |
| Temperature (°C)                                                  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|                                                                   |                      | Hz              | ppm      |             |        |
| 25                                                                | 4.25                 | 48              | 0.025943 | 2.5         | Pass   |
|                                                                   | 3.70                 | 37              | 0.019998 |             |        |
|                                                                   | 3.40                 | 39              | 0.021079 |             |        |

| Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz |                      |                 |          |             |        |
|-----------------------------------------------------------------|----------------------|-----------------|----------|-------------|--------|
| Temperature (℃)                                                 | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|                                                                 |                      | Hz              | ppm      |             |        |
| 25                                                              | 4.25                 | 36              | 0.043031 | 2.5         | Pass   |
|                                                                 | 3.70                 | 35              | 0.041836 |             |        |
|                                                                 | 3.40                 | 42              | 0.050203 |             |        |
| Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz |                      |                 |          |             |        |
| Temperature (℃)                                                 | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|                                                                 |                      | Hz              | ppm      |             |        |
| 25                                                              | 4.25                 | 37              | 0.019681 | 2.5         | Pass   |
|                                                                 | 3.70                 | 39              | 0.020745 |             |        |
|                                                                 | 3.40                 | 37              | 0.019681 |             |        |

| Reference Frequency: GSM850 Highest channel=251 channel=848.8MHz   |                      |                 |          |             |        |
|--------------------------------------------------------------------|----------------------|-----------------|----------|-------------|--------|
| Temperature (℃)                                                    | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|                                                                    |                      | Hz              | ppm      |             |        |
| 25                                                                 | 4.25                 | 42              | 0.049482 | 2.5         | Pass   |
|                                                                    | 3.70                 | 32              | 0.037700 |             |        |
|                                                                    | 3.40                 | 45              | 0.053016 |             |        |
| Reference Frequency: PCS1900 Highest channel=810 channel=1909.8MHz |                      |                 |          |             |        |
| Temperature (℃)                                                    | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|                                                                    |                      | Hz              | ppm      |             |        |
| 25                                                                 | 4.25                 | 36              | 0.018850 | 2.5         | Pass   |
|                                                                    | 3.70                 | 41              | 0.021468 |             |        |
|                                                                    | 3.40                 | 46              | 0.024086 |             |        |