

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

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Tino.Pan@sgs.com

Report No.: SHEMO10080104805
Page 1 of 42

TEST REPORT

Application No. : SHEMO10080104805
Applicant: Celsius X VI II
Address: Paris Innovation République - Celsius X VI II
18, rue du Faubourg du Temple
75011 Paris - FRANCE
FCC ID: YVQ2N1
Equipment Under Test (EUT):
EUT Name: 2N1
Brand Name: Celsius X VI II
Model No: 2N1
Marketing Name: LeDIX
Standards: FCC Part 2, 24E
Date of Receipt: Aug 16, 2010
Date of Test: Aug 16, 2010 to Sep 30, 2010
Date of Issue: Sep 30, 2010

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further details.



Tino Pan
E&E Section Manager
SGS-CSTC(Shanghai) Co., Ltd.



Jack Wu
Project Engineer
SGS-CSTC(Shanghai) Co., Ltd.

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**SGS-CSTC Standards
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(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 2 of 42

2 Test Summary

| Description of Test | FCC Rules | Result |
|--|------------------------|-----------|
| RF Power Output | 2.1046(a) 24.232(c) | Compliant |
| Occupied Bandwidth | 2.1049(h) | Compliant |
| Effective Isotropic Radiated Power | 2.1046(a) 24.232(c) | Compliant |
| Out of Band Emissions at antenna Terminals and Band Edge | 2.1051 24.238(a) | Compliant |
| Field Strength of Spurious Emissions | 2.1053 24.238(a) | Compliant |
| Frequency Stability vs. Temperature and Voltage | 2.1055(a)&(d) | Compliant |

3 Contents

| | Page |
|---|------|
| 1 COVER PAGE | 1 |
| 2 TEST SUMMARY | 2 |
| 3 CONTENTS | 3 |
| 4 GENERAL INFORMATION | 3 |
| 4.1 CLIENT INFORMATION | 3 |
| 4.2 GENERAL DESCRIPTION OF E.U.T. | 3 |
| 4.3 TEST LOCATION | 3 |
| 4.4 TEST FACILITY | 3 |
| 4.5 TEST METHODOGY | 3 |
| 5 EQUIPMENTS USED DURING TEST | 3 |
| 6 TEST RESULTS | 3 |
| 6.1 E.U.T. TEST CONDITIONS | 3 |
| 6.2 RF POWER OUTPUT | 3 |
| 6.3 OCCUPIED BANDWIDTH | 3 |
| 6.4 EFFECTIVE ISOTROPIC RADIATED POWER | 3 |
| 6.5 OUT OF BAND EMISSIONS AT ANTENNA TERMINALS | 3 |
| 6.5.1 <i>Band edges emissions</i> | 3 |
| 6.6 FIELD STRENGTH OF RADIATED SPURIOUS EMISSIONS | 3 |
| 6.7 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT | 3 |
| 6.8 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT | 3 |
| 6.9 CONDUCTED EMISSIONS MAINS TERMINALS, 150 kHz TO 30MHz | 3 |

4 General Information

4.1 Client Information

Applicant: Celsius X VI II
Address of Applicant: Paris Innovation République - Celsius X VI II
18, rue du Faubourg du Temple
75011 Paris - FRANCE
Manufacturer: Celsius X VI II
Address of Manufacturer: Paris Innovation République - Celsius X VI II
18, rue du Faubourg du Temple
75011 Paris - FRANCE

4.2 General Description of E.U.T.

| | |
|-------------------------|--|
| EUT Name: | 2N1 |
| Brand Name: | Celsius X VI II |
| Model No: | 2N1 |
| Marketing Name: | LeDIX |
| Support Frequency Band: | GSM 900/1800/1900 |
| Testing Frequency Band: | GSM 1900 |
| Power Supply: | Model: FS5GU, Reference: PI00200005AA (Input :100-240V~ 50-60 Hz, 75mA, Output : 5.0 VDC, 600mA) |
| Battery: | Celsius battery DC 3.7V, Reference: PI00200001AA |

GSM 1900

| | | | |
|---|----------------------|-----------------|-------------|
| | Operating frequency | | Rated Power |
| Cellular phone standards Frequency Range and Power: | GSM/GPRS/E-GPRS 1900 | 1850MHz-1910MHz | GSM:30dBm |
| IMEI: | 358751030001594 | | |
| Hardware Version: | V0x | | |
| Software Version: | EA, V19 | | |

4.3 Test Location

Tests were performed at:

SGS-CSTC Standards Technical Services(Shanghai) Co., Ltd.
588 West Jindu Road, Songjiang District, Shanghai, China
Tel: +86 21 61915666 Fax: +86 21 61915655

4.4 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2011-07-29.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

4.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA-603-C-2004 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 6 of 42

5 Equipments Used during Test

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due date |
|------|--------------------------------------|--------------------------------------|-------------------------------|------------|------------|---------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESU40 | 100109 | 2010-6-4 | 2011-6-3 |
| 2 | Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-679 | 2010-6-4 | 2011-6-3 |
| 3 | Horn Antenna | Rohde & Schwarz | HF906 | 100284 | 2010-4-11 | 2011-4-10 |
| 4 | ANTENNA | SCHWARZBECK | VULB9168 | 9168-313 | 2010-6-4 | 2011-6-3 |
| 5 | Ultra broadband antenna | Rohde & Schwarz | HL562 | 100227 | 2009-10-9 | 2010-10-8 |
| 6 | Atmosphere pressure meter | Shanghai ZhongXuan Electronic Co;Ltd | BY—2003P | -- | 2009-10-15 | 2010-10-14 |
| 7 | CLAMP METER | FLUKE | 316 | 86080010 | 2010-04-27 | 2011-04-26 |
| 8 | Thermo-Hygrometer | ZHICHEN | ZC1-2 | 01050033 | 2009-10-15 | 2010-10-14 |
| 9 | High-low temperature cabinet | Shanghai YuanZhen | GW2050 | -- | 2010-6-18 | 2011-6-17 |
| 10 | DC power | KIKUSUI | PMC35—3 | NF100260 | 2010-1-16 | 2011-1-15 |
| 11 | Line impedance stabilization network | SCHWARZBECK | NSLK8127 | 8127-490 | 2010-5-8 | 2011-5-7 |
| 12 | Power meter | Rohde & Schwarz | NRP | 101641 | 2010-5-5 | 2011-5-4 |
| 13 | UNIVERSAL RADIO COMMUNICATION TESTER | Rohde & Schwarz | CMU 200 | 112012 | 2010-08-25 | 2011-08-24 |
| 14 | Tunable Notch Filter | Wainwright instruments Gmbh | WRCT1800.0/2000.0-0.2/40-5SSK | 11 | 2010-1-27 | 2011-1-26 |
| 15 | Tunable Notch Filter | Wainwright instruments Gmbh | WRCT800.0/880.0-0.2/40-5SSK | 9 | 2010-1-27 | 2011-1-26 |
| 16 | EMI test receiver | Rohde & Schwarz | ESCS30 | 100086 | 2010-6-4 | 2011-6-3 |

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6 Test Results

6.1 E.U.T. test conditions

Operating Environment:

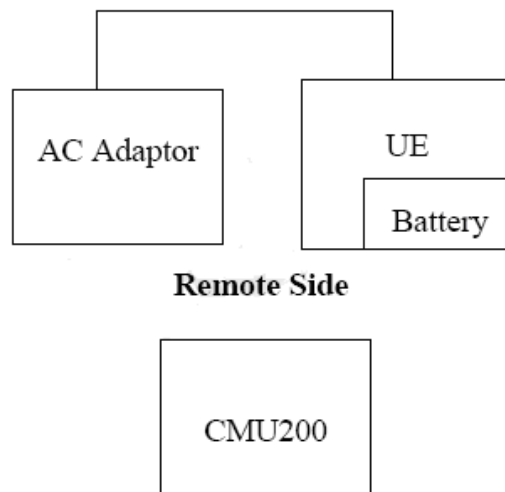
Temperature: 20.0 -25.0 °C

Humidity: 38-52% RH

Atmospheric Pressure: 992 -1010 mbar

Configuration of

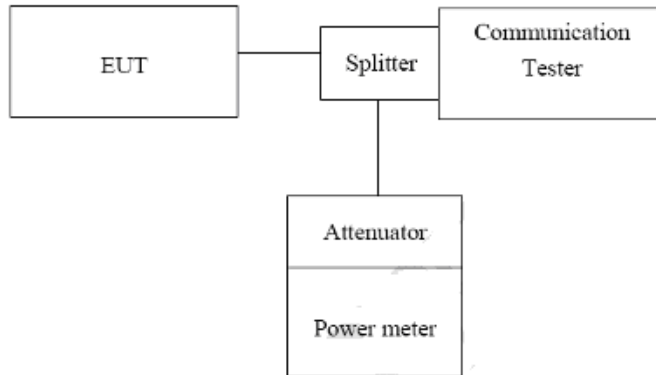
Tested System:



6.2 RF Power Output

Test Requirement: 2.1046(a)
24.232(c) Mobile and portable stations are limited to 2 watts

Test Setup



Measurement Setup for testing on Antenna connector.

Test Date: Sep 07, 2010
Test Status: Test lowest, middle, highest channel.
Test Procedure:

The transmitter output was connected to calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power in dBm. The power output at the transmitter antenna port was determined by adding the value of attenuator to the power meter reading.

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 9 of 42

RF Conducted output power:

PCS 1900(GMSK) Result:

| Frequency(MHz) | Channel: | Peak power (dBm) | AV power (dBm) |
|----------------|----------|---------------------|-------------------|
| 1850.2 | 512 | 29.3 | 29.1 |
| 1880.0 | 661 | 29.1 | 29.0 |
| 1909.8 | 810 | 29.0 | 28.9 |

PCS 1900(8-PSK) Result:

| Frequency(MHz) | Channel: | Peak power (dBm) | AV power (dBm) |
|----------------|----------|---------------------|-------------------|
| 1850.2 | 512 | 28.5 | 25.4 |
| 1880.0 | 661 | 28.0 | 25.0 |
| 1909.8 | 810 | 28.4 | 25.4 |

6.3 Occupied Bandwidth

Test Requirement: 2.1049(h)
Test Date: Sep 07, 2010
Test Status: Test lowest, middle, highest channel.
Test Procedure:

The EUT output RF connector was connected with a short a cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW>=3 times RBW, 99% bandwidth were measured, the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

Test result:

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (kHz) |
|-------------------|-----------------|-----|---------------------|
| PCS 1900 GMSK | 1850.2 | 512 | 243.590 |
| | 1880.0 | 661 | 243.590 |
| | 1909.8 | 810 | 243.590 |
| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (kHz) |
| PCS 1900 8-PSK | 1850.2 | 512 | 237.180 |
| | 1880.0 | 661 | 243.590 |
| | 1909.8 | 810 | 243.590 |

| EUT Mode | Frequency (MHz) | CH | 26dB Bandwidth (kHz) |
|-------------------|-----------------|-----|----------------------|
| PCS 1900 GMSK | 1850.2 | 512 | 325.705 |
| | 1880.0 | 661 | 322.116 |
| | 1909.8 | 810 | 323.718 |
| EUT Mode | Frequency (MHz) | CH | 26dB Bandwidth (kHz) |
| PCS 1900 8-PSK | 1850.2 | 512 | 325.705 |
| | 1880.0 | 661 | 323.718 |
| | 1909.8 | 810 | 327.308 |

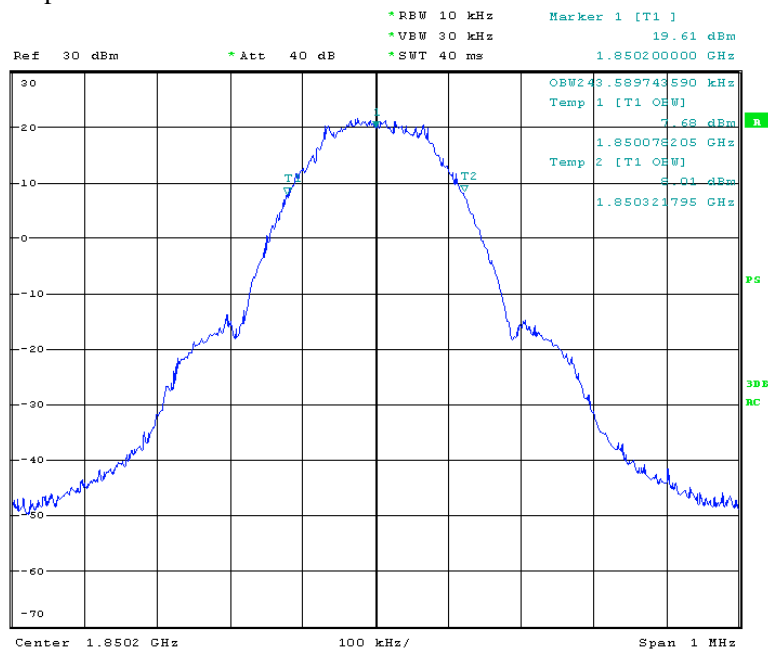
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ReportNo.: SHEMO10080104805
Page: 11 of 42

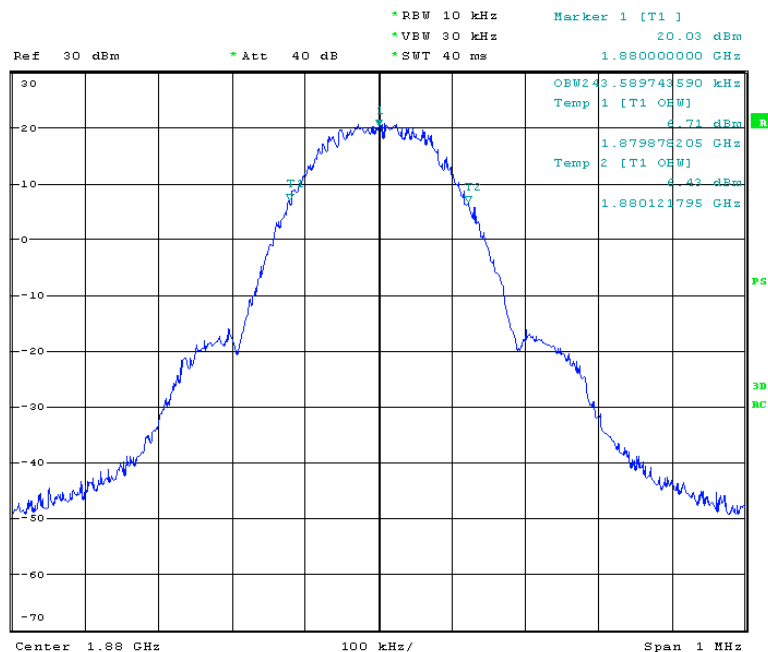
99% bandwidth

GSM 1900 GMSK

Graph: Channel Low

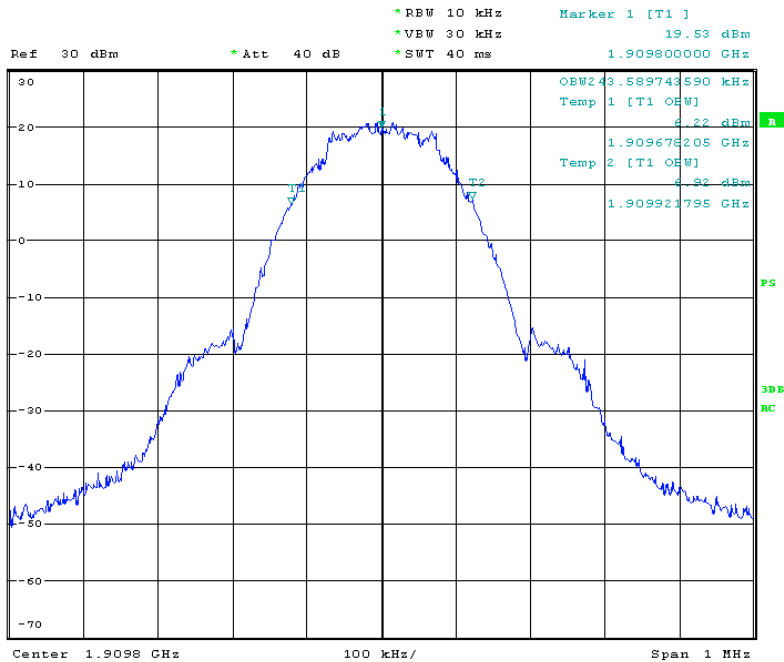


Channel Middle



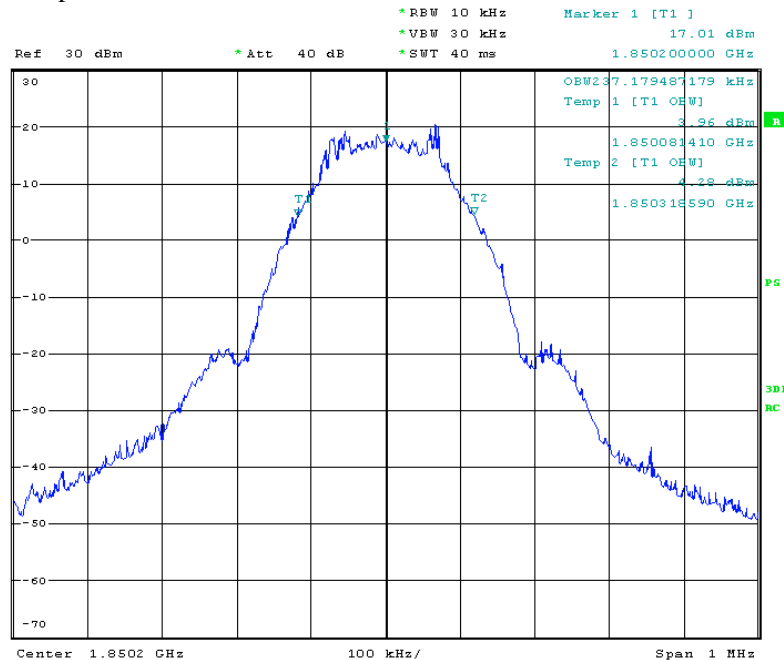
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Channel High



GSM 1900 8-PSK

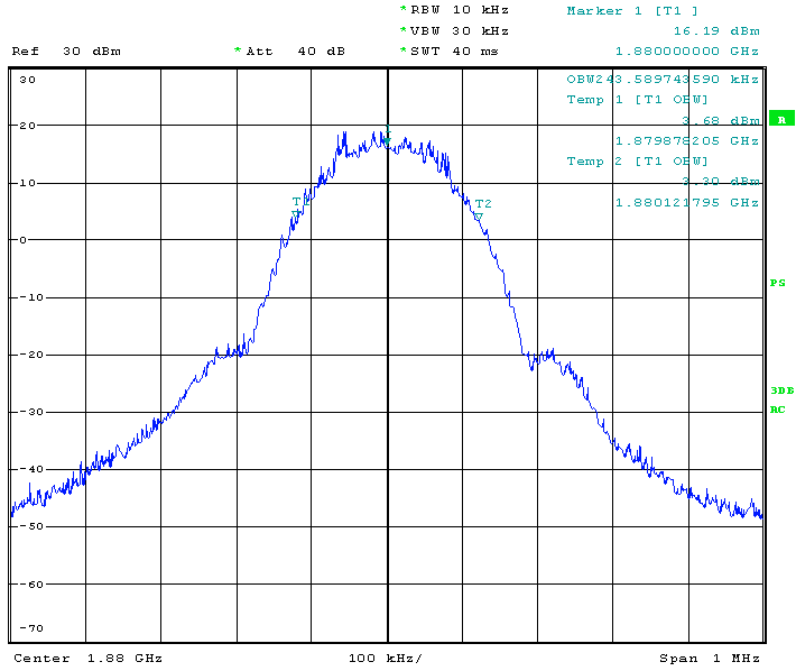
Graph: Channel Low



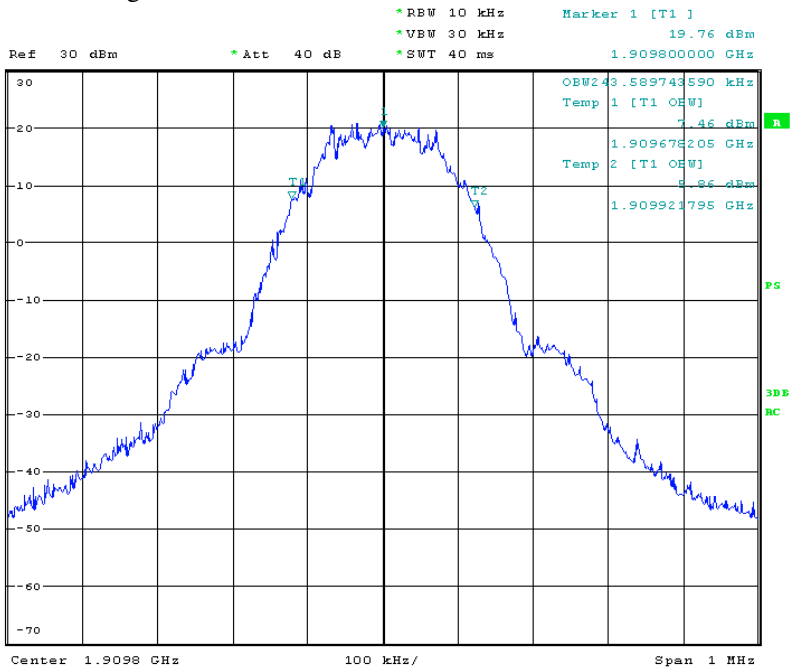
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ReportNo.: SHEMO10080104805
Page: 13 of 42

Channel Middle



Channel High



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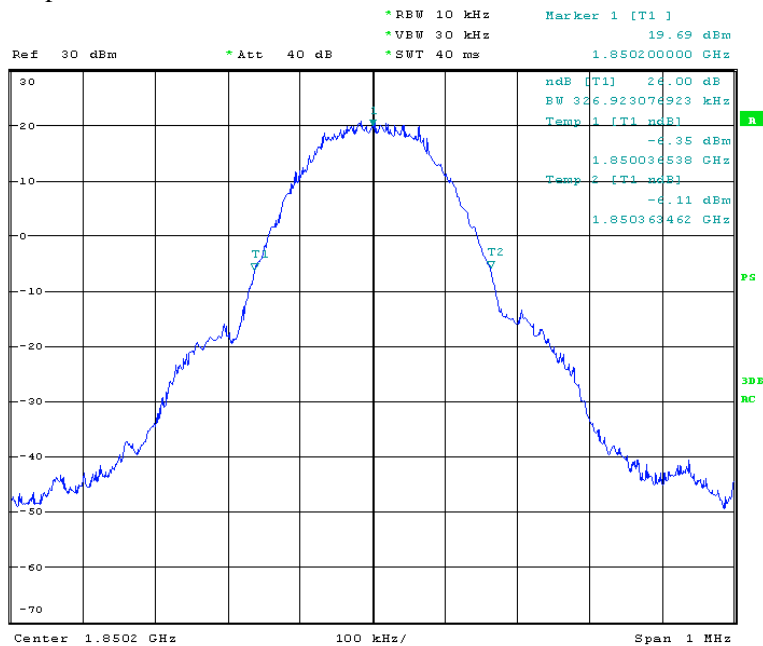
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ReportNo.: SHEMO10080104805
Page: 14 of 42

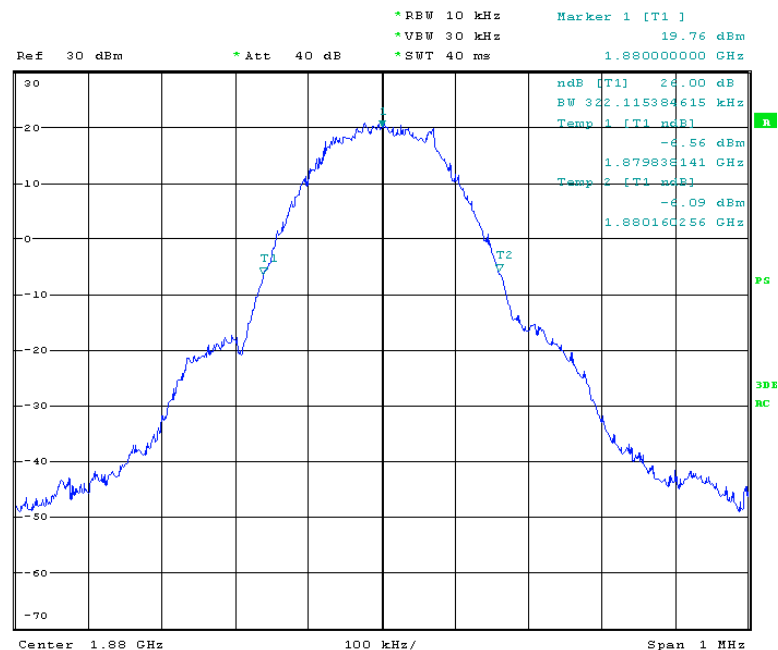
26dB bandwidth

GSM 1900 GMSK

Graph: Channel Low



Channel Middle

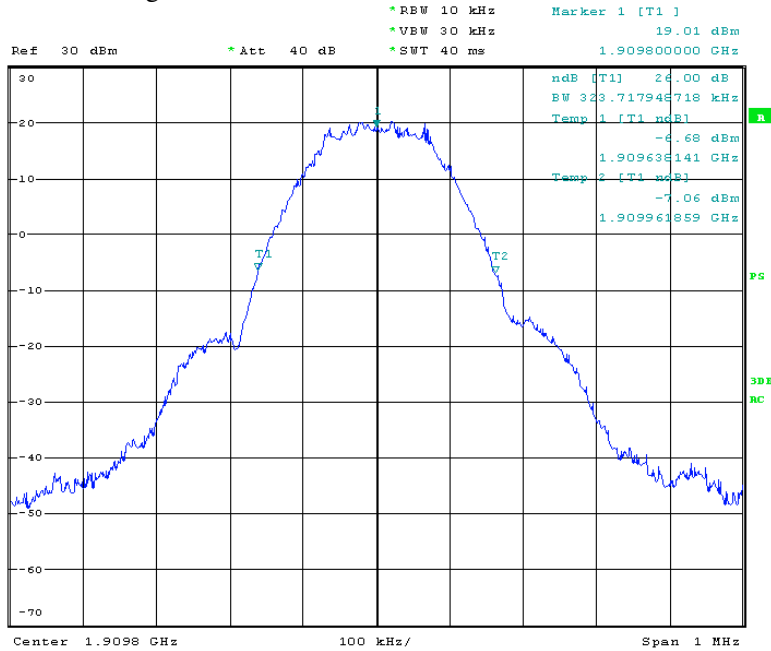


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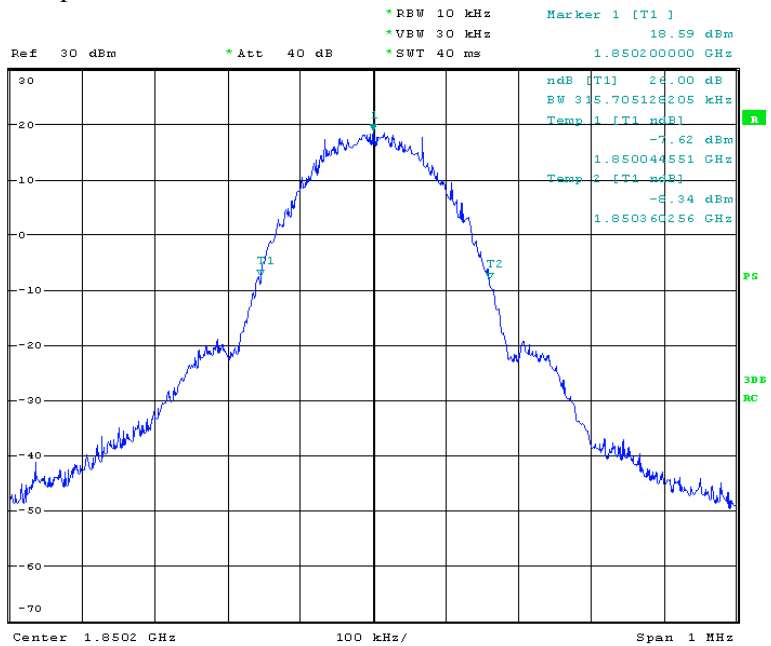
ReportNo.: SHEMO10080104805
Page: 15 of 42

Channel High



GSM 1900 8-PSK

Graph: Channel Low

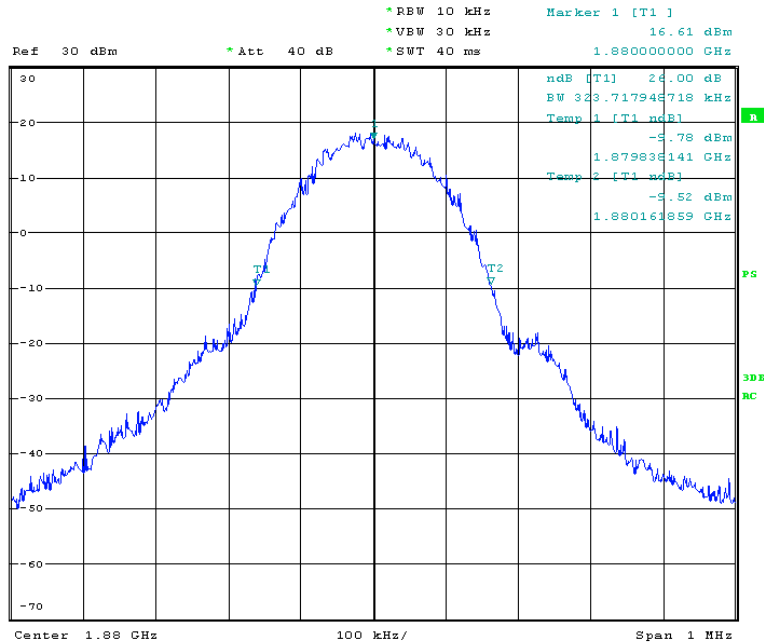


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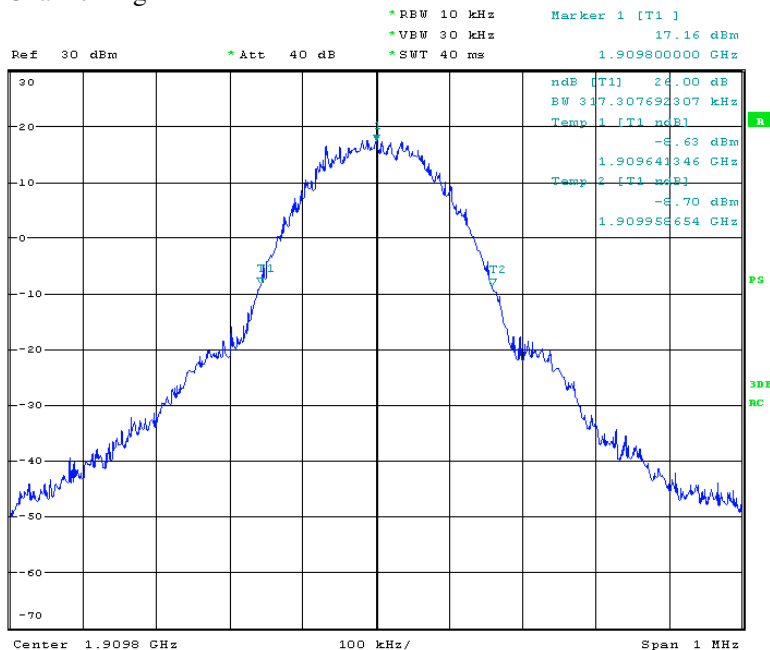
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Technical Services
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ReportNo.: SHEMO10080104805
Page: 16 of 42

Channel Middle



Channel High



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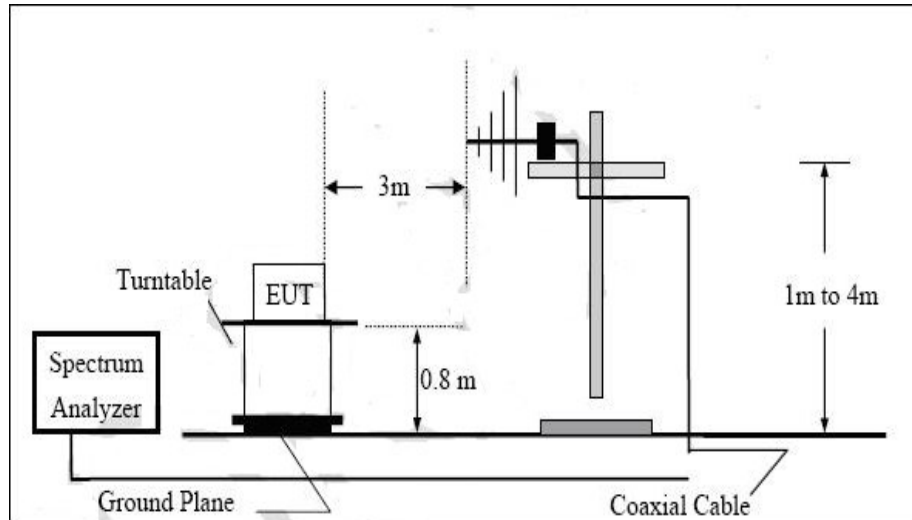
6.4 Effective Isotropic Radiated Power

Test Requirement: 2.1046(a)
24.232(c) Mobile and portable stations are limited to 2 watts

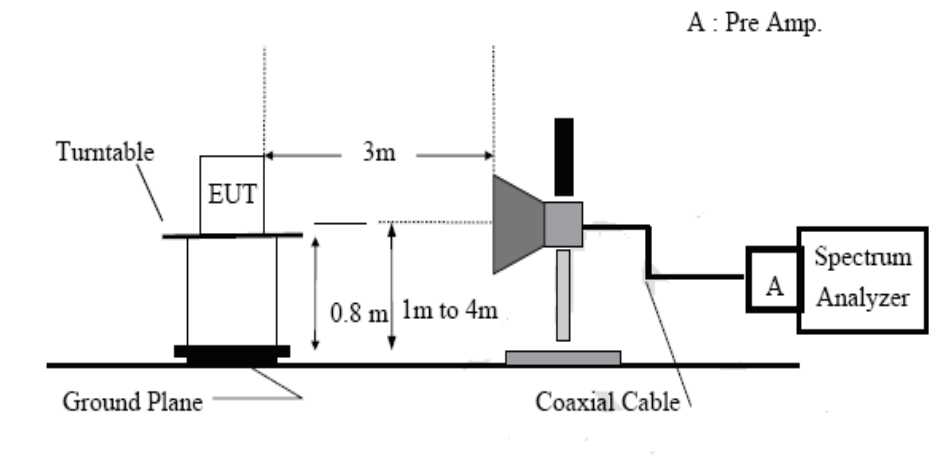
Test Date: Sep 25, 2010

Test Setup:

(A) Radiated emission Test setup, Below Frequency 1000MHz:

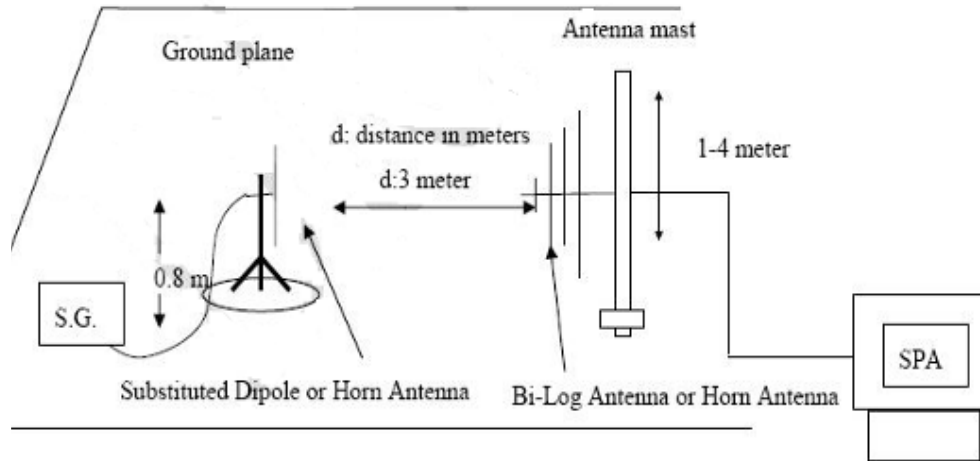


(B) Radiated emission Test setup frequency over 1GHz:



(C) Substituted Method Test setup:

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Test Procedure:

The EUT was placed on a 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. During the measurement, the EUT was in communication with the station. The highest emission was recorded with the rotation of the turntable and lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

EIRP in frequency band 1850.5-1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

ERP/EIRP: GSM/PCS: Below 1GHz was RBW=300KHz, VBW=1MHz; Above 1GHz was RBW=1MHz, VBW=3MHz

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 19 of 42

Measurement result:

The RBW, VBW of SPA for frequency

Below 1GHz was RBW=300KHz, VBW=1MHz;

Above 1GHz was RBW=1MHz, VBW=3MHz.

| EUT mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. output (dBm) | Antenna Gain (dBi) | Cable loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| PCS 1900 GMSK | 1850.2 | 512 | H | V | 101.83 | 18.96 | 9.15 | 4.45 | 23.66 | 33.00 |
| | | | | H | 99.53 | 16.92 | 9.15 | 4.45 | 21.62 | 33.00 |
| | 1880.0 | 661 | H | V | 101.17 | 18.76 | 9.22 | 4.57 | 23.41 | 33.00 |
| | | | | H | 99.38 | 16.68 | 9.22 | 4.57 | 21.33 | 33.00 |
| | 1909.8 | 810 | H | V | 100.87 | 17.77 | 9.25 | 4.48 | 22.54 | 33.00 |
| | | | | H | 99.01 | 16.21 | 9.25 | 4.48 | 20.98 | 33.00 |
| EUT mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. output (dBm) | Antenna Gain (dBi) | Cable loss (dB) | EIRP (dBm) | Limit (dBm) |
| PCS 1900 8-PSK | 1850.2 | 512 | H | V | 100.16 | 17.39 | 9.15 | 4.45 | 22.09 | 33.00 |
| | | | | H | 98.33 | 15.38 | 9.15 | 4.45 | 20.08 | 33.00 |
| | 1880.0 | 661 | H | V | 100.62 | 17.66 | 9.22 | 4.57 | 22.31 | 33.00 |
| | | | | H | 98.59 | 15.47 | 9.22 | 4.57 | 20.12 | 33.00 |
| | 1909.8 | 810 | H | V | 99.75 | 17.21 | 9.25 | 4.48 | 21.98 | 33.00 |
| | | | | H | 97.84 | 15.10 | 9.25 | 4.48 | 19.87 | 33.00 |

6.5 Out of band emissions at antenna Terminals

6.5.1 Band edges emissions

Test Requirement: Part 2.1051

The magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specification in the instruction manual and/or alignment procedure, shall not be less than $43+10\log(\text{Mean power in watts})$ dBc below the mean power output outside a license's frequency block(-13dBm).

Test Date: Sep 07, 2010

Test Procedure:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emission is any up to 10th harmonic.

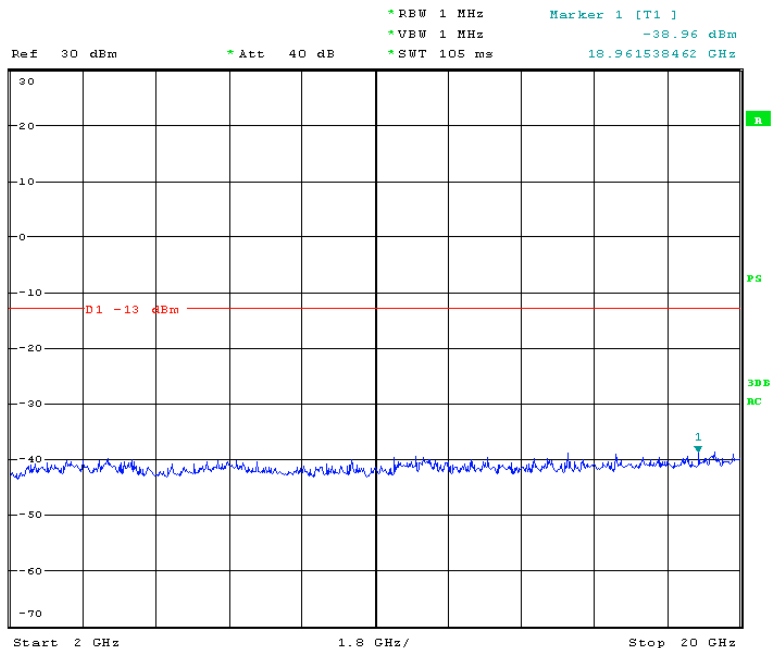
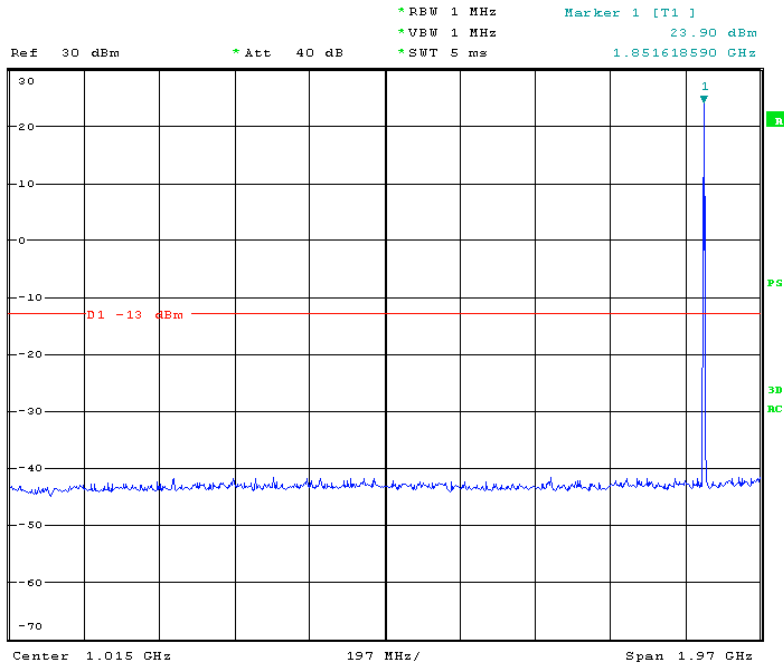
For the out of band: set RBW=1MHz, VBW=3MHz, stat=30MHz, stop= 10 th harmonic. Limit= --13dBm Band Edge requirements: In 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 % of bandwidth of fundamental emission of the transmitter any be employed to measure the out of band emission. Limit=--13dBm.

SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.

ReportNo.: SHEMA10080104805
Page: 21 of 42

Measurement result: GSM 1900 GMSK:

Channel Low

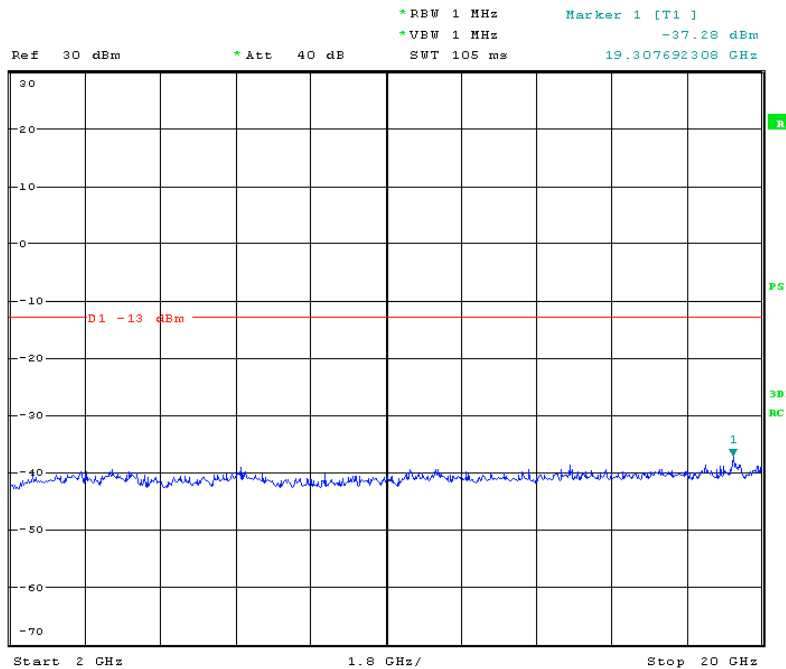
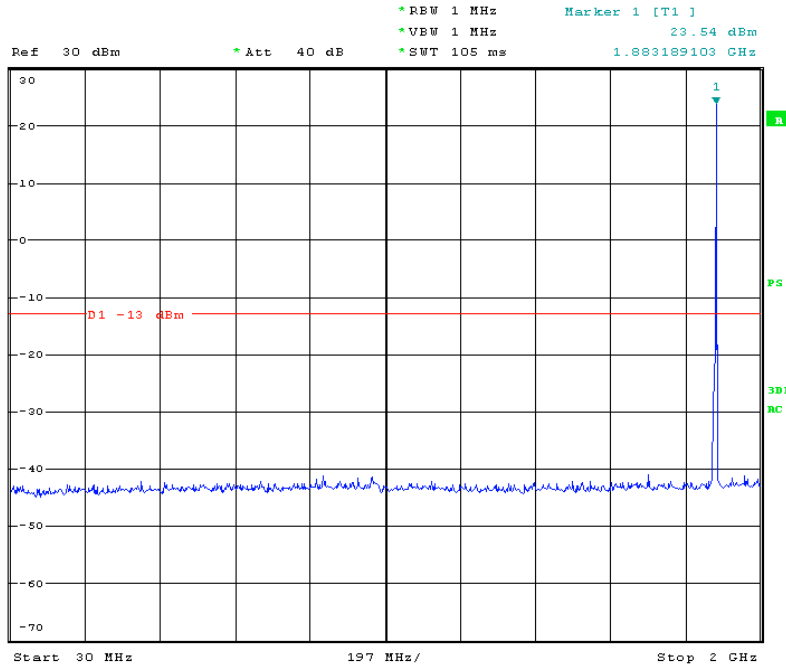


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SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.

ReportNo.: SHEMO10080104805
Page: 22 of 42

Channel Mid

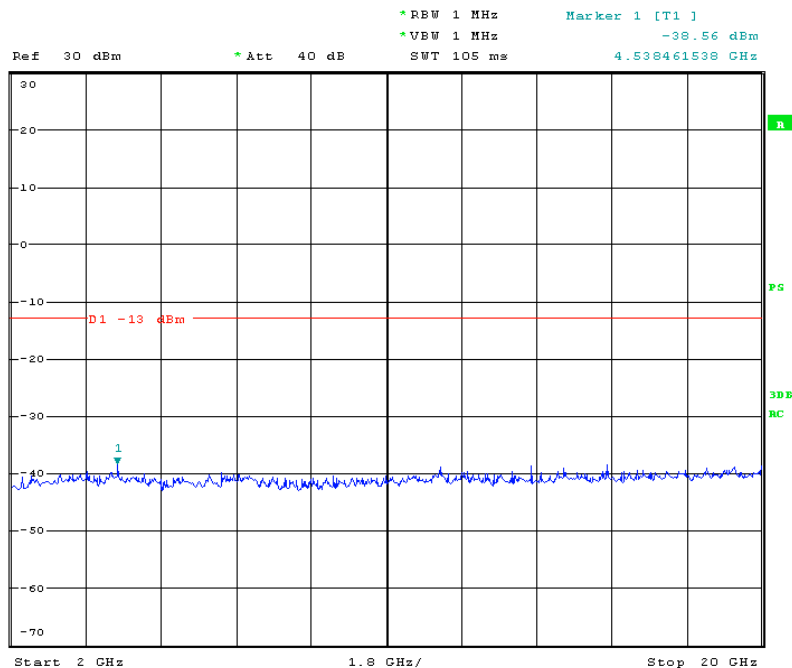
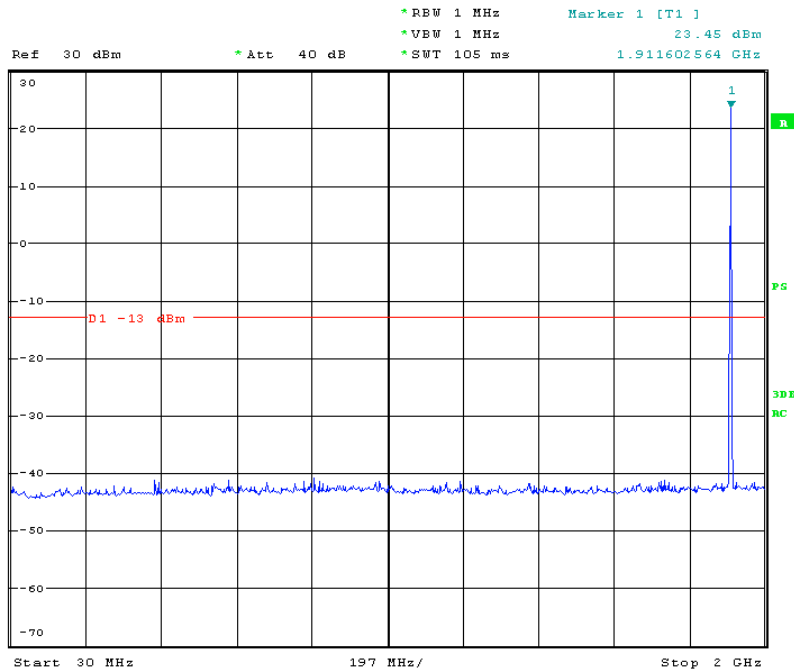


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SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.

ReportNo.: SHEMO10080104805
Page: 23 of 42

Channel High

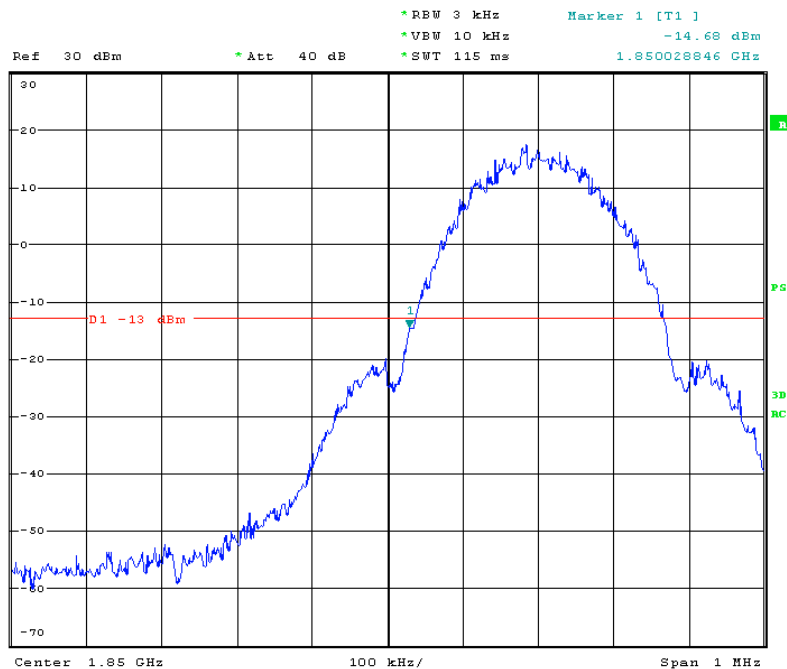


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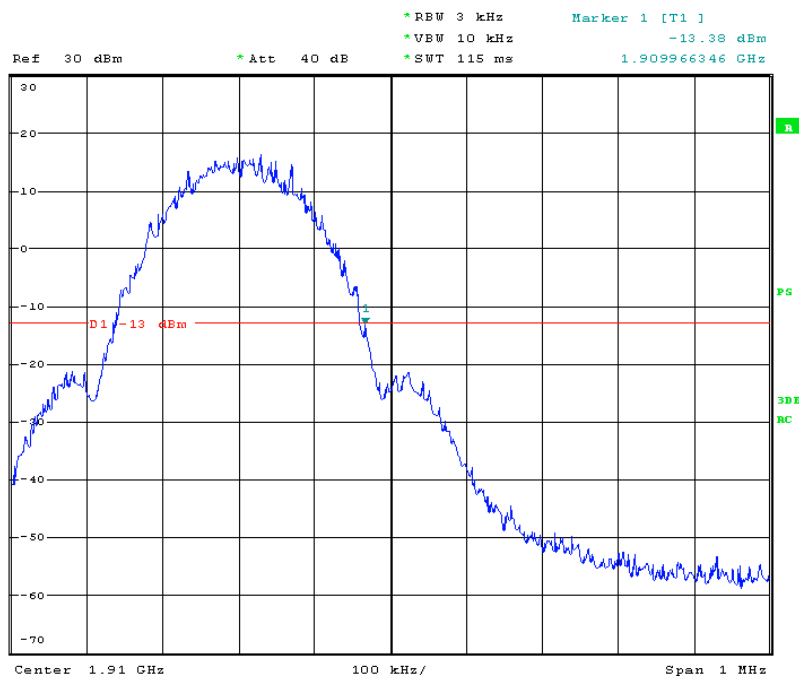
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Technical Services
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ReportNo.: SHEMA10080104805
Page: 24 of 42

Band Edge emission Channel Low



Band Edge emission Channel high

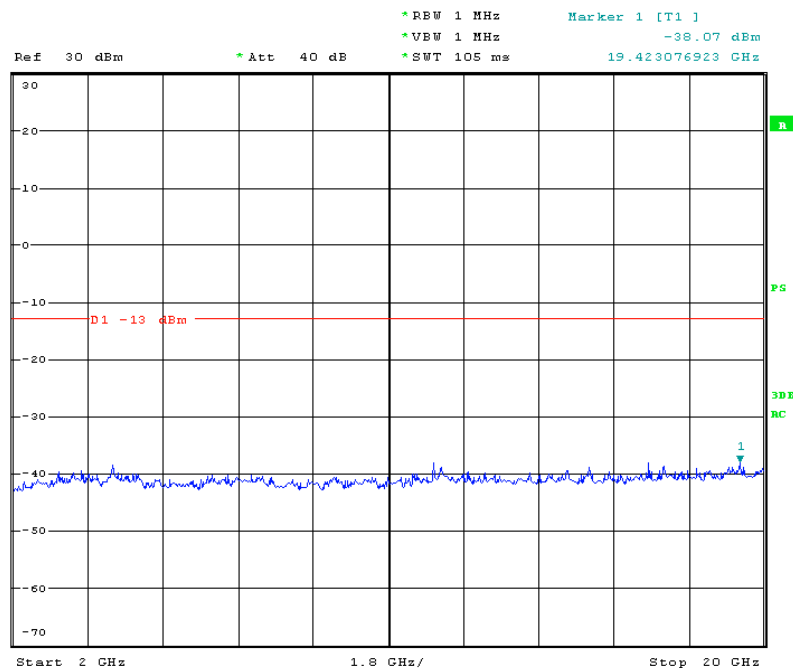
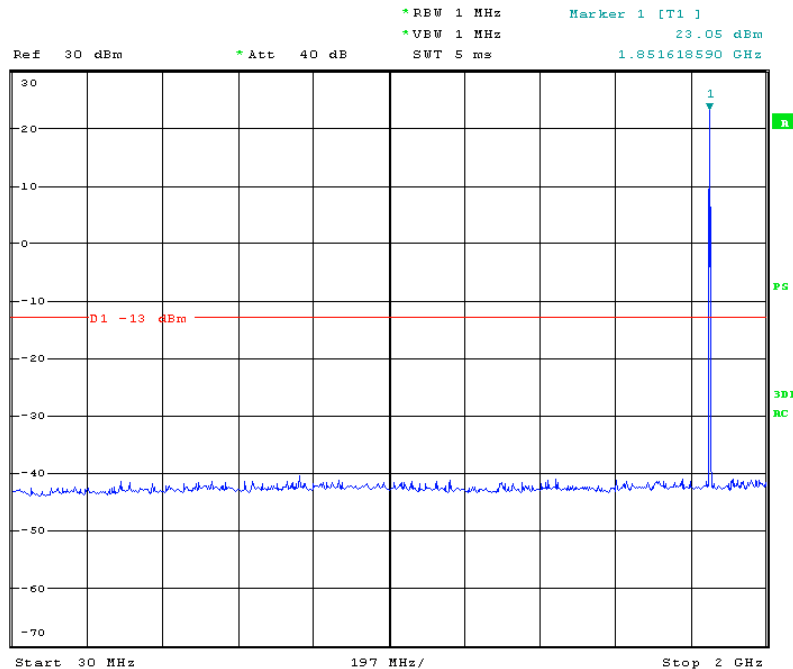


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SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.

ReportNo.: SHEMO10080104805
Page: 25 of 42

GSM 1900 8-PSK: Channel Low

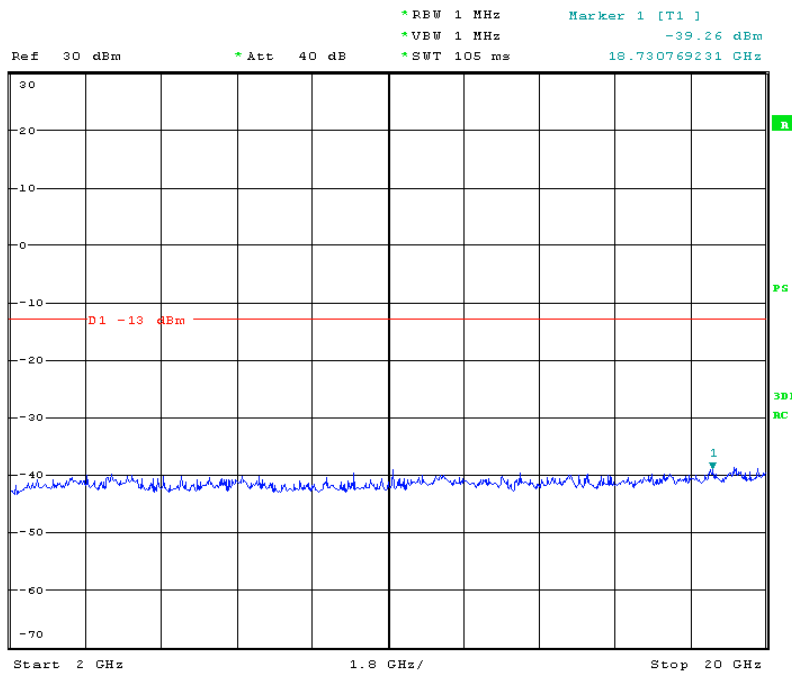
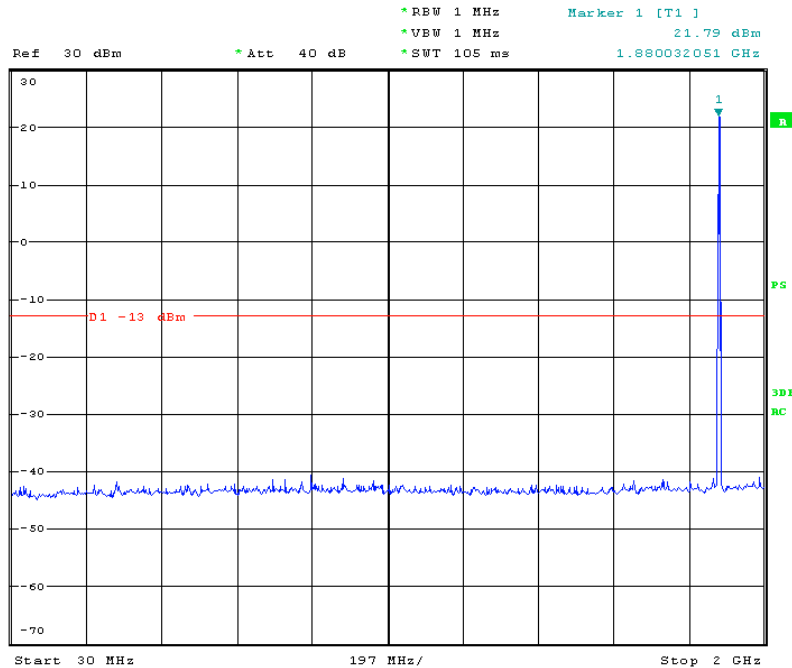


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SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.

ReportNo.: SHEMO10080104805
Page: 26 of 42

Channel Mid

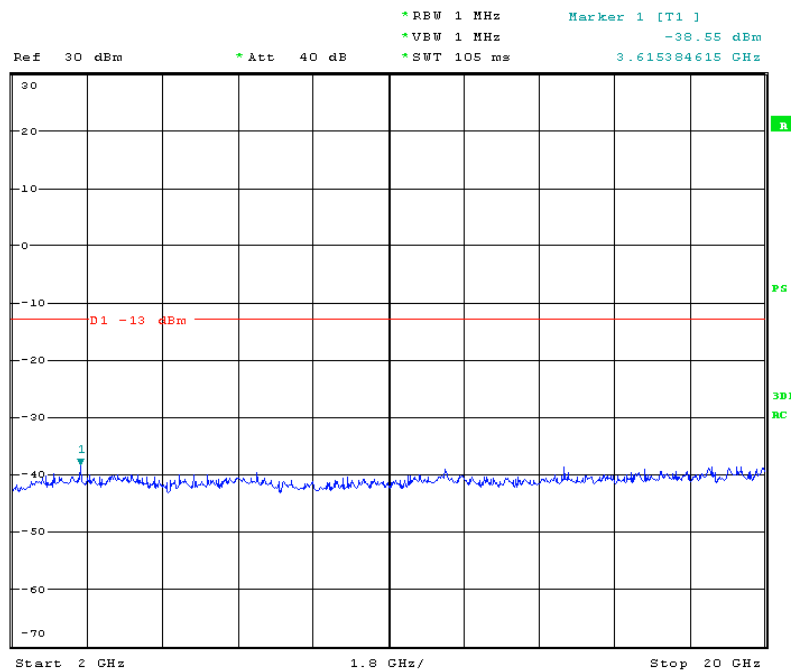
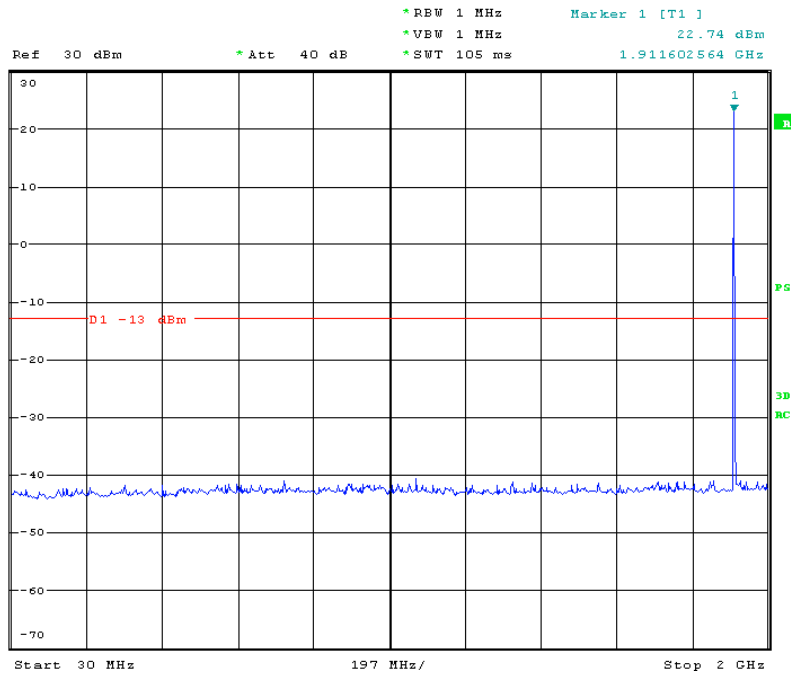


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SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.

ReportNo.: SHEMO10080104805
Page: 27 of 42

Channel High

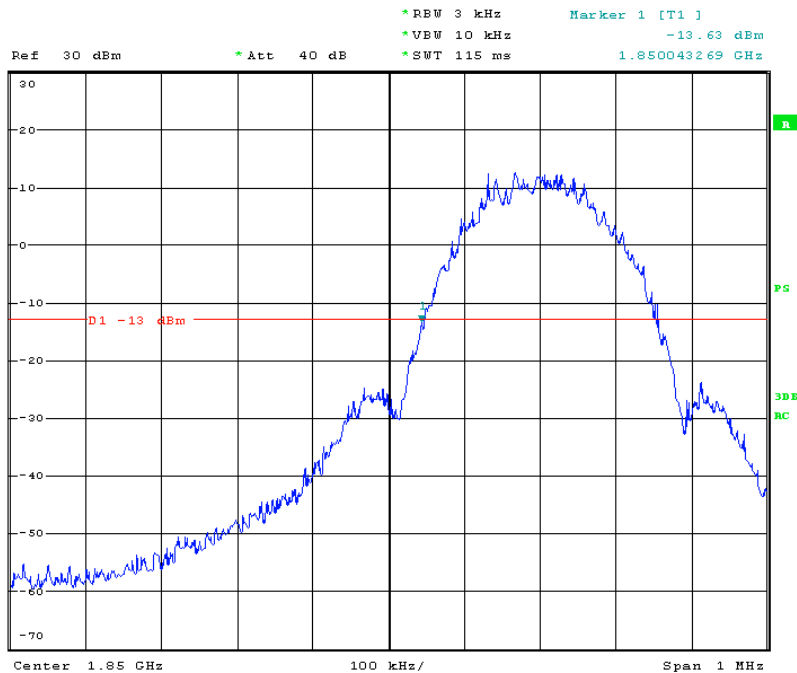


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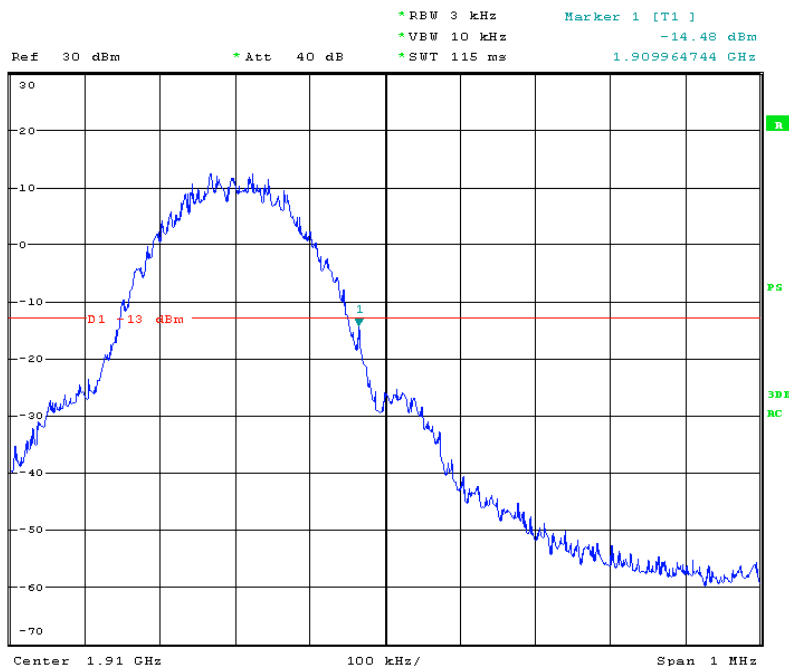
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Technical Services
(Shanghai)Co., Ltd.

ReportNo.: SHEMO10080104805
Page: 28 of 42

Band Edge emission Channel Low



Band Edge emission Channel high



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6.6 Field Strength of Radiated Spurious Emissions

Test Requirement: Part 2.1051

The magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specification in the instruction manual and/or alignment procedure, shall not be less than $43+10\log(\text{Mean power in watts})$ dBc below the mean power output outside a license's frequency block(-13dBm).

Test Date: Sep 27, 2010 to Sep 28, 2010

Test Procedure:

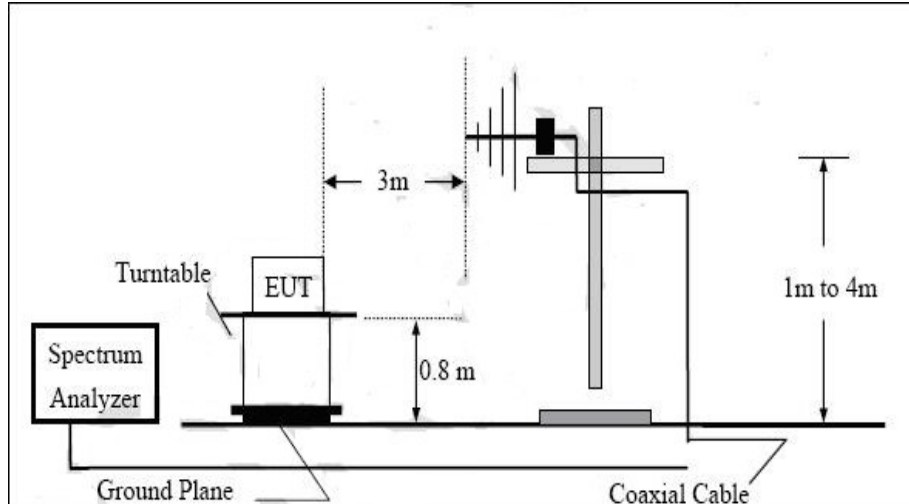
The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emission is any up to 10th harmonic.

For the out of band: set RBW, VBW=1MHz, stat=30MHz, stop= 10 th harmonic. Limit= --13dBm.

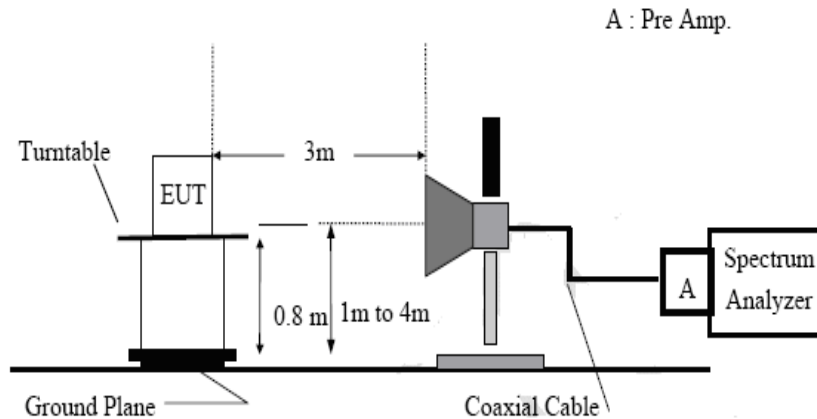
Band Edge requirements: In 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 % of bandwidth of fundamental emission of the transmitter any be employed to measure the out of band emission. Limit=--13dBm.

Test Setup:

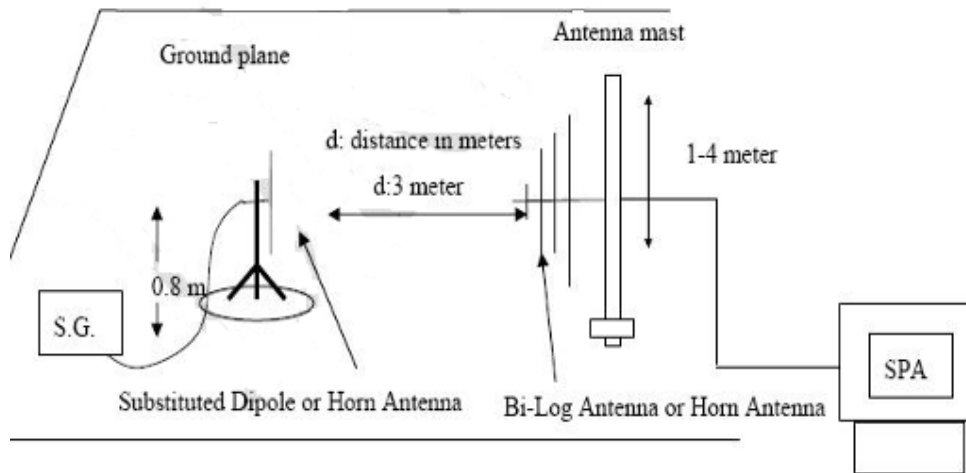
(A) Radiated emission Test setup, Below Frequency 1000MHz:



(B) Radiated emission Test setup frequency over 1GHz:



(C) Substituted Method Test setup:



Test Procedure:

The EUT was placed on a 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. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 31 of 42

EIRP in frequency band 1850.5-1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

Radiated spurious Emission Measurement Result: PCS 1900 mode

Operation mode: TX CH Low mode

Fundamental Frequency: 1850.2MHz

| Frequency (MHz) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBi) | Cable Loss (dBm) | EIRP (dBm) | Limit (dBm) | Safe Margin (dB) |
|-----------------|--------------|------------------|--------------------|------------------|------------|-------------|------------------|
| 100.0 | H | -55.95 | 2.6 | 1 | -54.35 | -13 | 41.35 |
| 200.0 | H | -56.90 | 9.1 | 1.42 | -49.22 | -13 | 36.22 |
| 800.0 | H | -55.60 | 8.7 | 2.86 | -49.76 | -13 | 36.76 |
| 1800.0 | H | -50.93 | 7 | 4.38 | -48.31 | -13 | 35.31 |
| 3700.4 | H | -42.83 | 8.35 | 6.77 | -41.25 | -13 | 28.25 |
| 5550.6 | H | -43.46 | 9.55 | 8.1 | -42.01 | -13 | 29.01 |
| 7400.8 | H | -48.35 | 9.75 | 9.51 | -48.11 | -13 | 35.11 |
| 9251.0 | H | -46.86 | 10.55 | 11.08 | -47.39 | -13 | 34.39 |
| 100.0 | V | -55.57 | 2.6 | 1 | -53.97 | -13 | 40.97 |
| 200.0 | V | -56.35 | 9.1 | 1.42 | -48.67 | -13 | 35.67 |
| 800.0 | V | -55.00 | 8.7 | 2.86 | -49.16 | -13 | 36.16 |
| 1800.0 | V | -50.39 | 7 | 4.38 | -47.77 | -13 | 34.77 |
| 3700.4 | V | -44.05 | 8.35 | 6.77 | -42.47 | -13 | 29.47 |
| 5550.6 | V | -46.07 | 9.55 | 8.1 | -44.62 | -13 | 31.62 |
| 7400.8 | V | -47.80 | 9.75 | 9.51 | -47.56 | -13 | 34.56 |
| 9251.0 | V | -46.30 | 10.55 | 11.08 | -46.83 | -13 | 33.83 |

Remark:

1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

$$\text{ERP/EIRP(dBm)} = \text{S.G. Output(dBm)} + \text{Antenna Gain(dBd/dBi)} - \text{Cable Loss}$$

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**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMA10080104805
Page: 32 of 42

Radiated spurious Emission Measurement Result: PCS 1900 mode

Operation mode: TX CH mid mode

Fundamental Frequency: 1880.0MHz

| Frequency (MHz) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBi) | Cable Loss (dBm) | EIRP (dBm) | Limit (dBm) | Safe Margin (dB) |
|--------------------|-----------------|---------------------|--------------------------|---------------------|---------------|----------------|------------------------|
| 100 | H | -56.71 | 2.6 | 1 | -55.11 | -13 | 42.11 |
| 200 | H | -57.25 | 9.1 | 1.42 | -49.57 | -13 | 36.57 |
| 800 | H | -55.21 | 8.7 | 2.86 | -49.37 | -13 | 36.37 |
| 1800 | H | -50.77 | 7 | 4.38 | -48.15 | -13 | 35.15 |
| 3760.0 | H | -43.05 | 8.42 | 6.84 | -41.47 | -13 | 28.47 |
| 5640.0 | H | -45.52 | 9.5 | 8.31 | -44.33 | -13 | 31.33 |
| 7520.0 | H | -48.97 | 9.78 | 9.6 | -48.79 | -13 | 35.79 |
| 9400.0 | H | -47.45 | 10.61 | 11.32 | -48.16 | -13 | 35.16 |
| 100.0 | V | -55.89 | 2.6 | 1 | -54.29 | -13 | 41.29 |
| 200.0 | V | -56.45 | 9.1 | 1.42 | -48.77 | -13 | 35.77 |
| 800.0 | V | -55.10 | 8.7 | 2.86 | -49.26 | -13 | 36.26 |
| 1800.0 | V | -50.11 | 7 | 4.38 | -47.49 | -13 | 34.49 |
| 3760.0 | V | -48.79 | 8.42 | 6.84 | -47.21 | -13 | 34.21 |
| 5640.0 | V | -43.69 | 9.5 | 8.31 | -42.50 | -13 | 29.50 |
| 7520.0 | V | -47.05 | 9.78 | 9.6 | -46.87 | -13 | 33.87 |
| 9400.0 | V | -46.73 | 10.61 | 11.32 | -47.44 | -13 | 34.44 |

Remark:

1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

ERP/EIRP(dBm)=S.G. Output(dBm) + Antenna Gain(dBd/dBi)-Cable Loss

**SGS-CSTC Standards
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ReportNo.: SHEMA10080104805
Page: 33 of 42

Radiated spurious Emission Measurement Result: PCS 1900 mode

Operation mode: TX CH High mode

Fundamental Frequency: 1909.8MHz

| Frequency (MHz) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBi) | Cable Loss (dBm) | EIRP (dBm) | Limit (dBm) | Safe Margin (dB) |
|--------------------|-----------------|---------------------|--------------------------|---------------------|---------------|----------------|------------------------|
| 100.0 | H | -56.47 | 2.6 | 1 | -54.87 | -13 | 41.87 |
| 200.0 | H | -56.79 | 9.1 | 1.42 | -49.11 | -13 | 36.11 |
| 800.0 | H | -54.07 | 8.7 | 2.86 | -48.23 | -13 | 35.23 |
| 1800.0 | H | -50.61 | 7 | 4.38 | -47.99 | -13 | 34.99 |
| 3981.6 | H | -49.41 | 8.42 | 6.88 | -47.87 | -13 | 34.87 |
| 5972.4 | H | -45.56 | 9.5 | 8.48 | -44.54 | -13 | 31.54 |
| 7963.2 | H | -48.74 | 9.78 | 9.7 | -48.66 | -13 | 35.66 |
| 9954 | H | -47.40 | 10.61 | 11.64 | -48.43 | -13 | 35.43 |
| 100.0 | V | -54.98 | 2.6 | 1 | -53.38 | -13 | 40.38 |
| 200.0 | V | -55.37 | 9.1 | 1.42 | -47.69 | -13 | 34.69 |
| 800.0 | V | -53.67 | 8.7 | 2.86 | -47.83 | -13 | 34.83 |
| 1800.0 | V | -49.93 | 7 | 4.38 | -47.31 | -13 | 34.31 |
| 3981.6 | V | -46.73 | 8.42 | 6.88 | -45.19 | -13 | 32.19 |
| 5972.4 | V | -46.02 | 9.5 | 8.48 | -45.00 | -13 | 32.00 |
| 7963.2 | V | -47.76 | 9.78 | 9.7 | -47.68 | -13 | 34.68 |
| 9954.0 | V | -46.19 | 10.61 | 11.64 | -47.22 | -13 | 34.22 |

Remark:

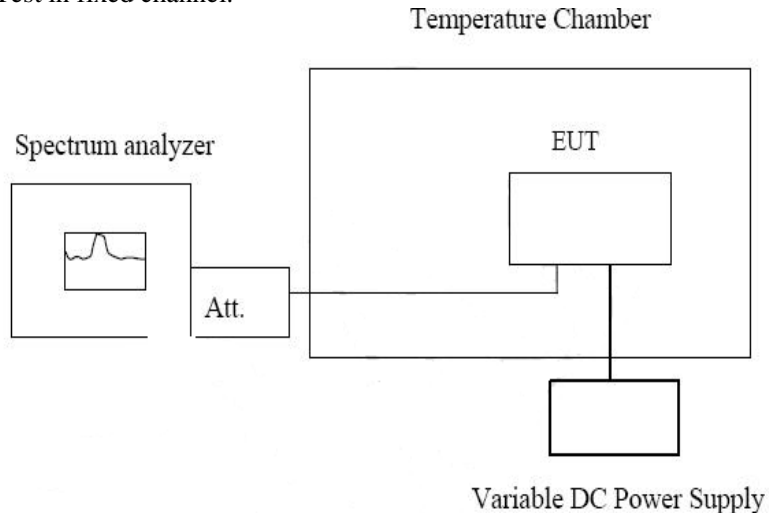
1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

ERP/EIRP(dBm)=S.G. Output(dBm) + Antenna Gain(dBd/dBi)-Cable Loss

6.7 Frequency Stability V.S. TEMPERATURE MEASUREMENT

Test Requirement: Part 2.1055(a)(1)
Test Date: Sep 09, 2010
Test Status: Test in fixed channel.
Test Setup:



Note: Measurement setup for testing On antenna connector.

Test procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the Spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes record the frequency. Repeat step measure with 10 degree per stage until the highest temperature of 50 degree reached.

Frequency Tolerance: ± 2.5 ppm

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 35 of 42

PCS1900:

| Reference Frequency: PCS channel 1850.2MHz@ 25 degree | | | | |
|---|---------------------|-------------|---------------|---------------|
| Limit: +/- 2.5ppm = 4700Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature(degree) | (MHz) | | |
| 3.9 | -30 | 1850.200055 | 55 | 4700 |
| 3.9 | -20 | 1850.200046 | 46 | 4700 |
| 3.9 | -10 | 1850.200019 | 19 | 4700 |
| 3.9 | 10 | 1850.200010 | 10 | 4700 |
| 3.9 | 20 | 1850.200008 | 8 | 4700 |
| 3.9 | 30 | 1850.200011 | 11 | 4700 |
| 3.9 | 40 | 1850.200020 | 20 | 4700 |
| 3.9 | 50 | 1850.200034 | 34 | 4700 |

| Reference Frequency: PCS channel 1880MHz@ 25 degree | | | | |
|---|---------------------|-------------|---------------|---------------|
| Limit: +/- 2.5ppm = 4700Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature(degree) | (MHz) | | |
| 3.9 | -30 | 1880.000044 | 44 | 4700 |
| 3.9 | -20 | 1880.000040 | 40 | 4700 |
| 3.9 | -10 | 1880.000026 | 26 | 4700 |
| 3.9 | 10 | 1880.000015 | 15 | 4700 |
| 3.9 | 20 | 1880.000006 | 6 | 4700 |
| 3.9 | 30 | 1880.000022 | 22 | 4700 |
| 3.9 | 40 | 1880.000018 | 18 | 4700 |
| 3.9 | 50 | 1880.000029 | 29 | 4700 |

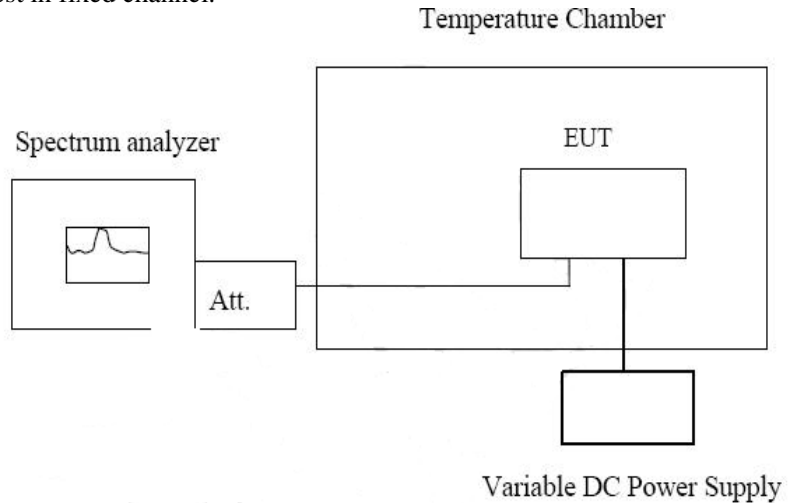
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ReportNo.: SHEMO10080104805
Page: 36 of 42

| Reference Frequency: PCS channel 1909.8MHz@ 25 degree | | | | |
|---|---------------------|-------------|-------|-------|
| Limit: +/- 2.5ppm = 4700Hz | | | | |
| Power Supply | Environment | Frequency | Delta | Limit |
| Vdc | Temperature(degree) | (MHz) | (Hz) | (Hz) |
| 3.9 | -30 | 1909.799976 | 24 | 4700 |
| 3.9 | -20 | 1909.799978 | 22 | 4700 |
| 3.9 | -10 | 1909.800018 | 18 | 4700 |
| 3.9 | 10 | 1909.800009 | 9 | 4700 |
| 3.9 | 20 | 1909.800006 | 6 | 4700 |
| 3.9 | 30 | 1909.800017 | 17 | 4700 |
| 3.9 | 40 | 1909.800022 | 22 | 4700 |
| 3.9 | 50 | 1909.800031 | 31 | 4700 |

6.8 Frequency Stability V.S. VOLTAGE MEASUREMENT

Test Requirement: Part 2.1055(d)
Test Date: Sep 10, 2010
Test Status: Test in fixed channel.
Test Setup:



Note: Measurement setup for testing On antenna connector.

Test procedure:

Set chamber temperature to 25 degree. Use a variable AC power/ DC power supply to power the EUT and set the Voltage to rated voltage. Set the spectrum analyzer RBW enough to obtain the desired frequency resolution and recorded the frequency.Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 38 of 42

PCS1900:

| Reference Frequency: PCS channel 1850.2MHz@ 25 degree | | | | |
|---|---------------------|-------------|---------------|---------------|
| Limit: +/- 2.5ppm = 4700Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature(degree) | (MHz) | | |
| 4.1 | 25 | 1850.199965 | 35 | 4700 |
| 4.0 | 25 | 1850.199987 | 13 | 4700 |
| 3.9 | 25 | 1850.199997 | 3 | 4700 |
| 3.8 | 25 | 1850.199983 | 17 | 4700 |
| 3.7 | 25 | 1850.199975 | 25 | 4700 |
| 3.65 | 25 | 1850.199976 | 24 | 4700 |

| Reference Frequency: PCS channel 1880MHz@ 25 degree | | | | |
|---|---------------------|-------------|---------------|---------------|
| Limit: +/- 2.5ppm = 4700Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature(degree) | (MHz) | | |
| 4.1 | 25 | 1879.999982 | 18 | 4700 |
| 4.0 | 25 | 1879.999989 | 11 | 4700 |
| 3.9 | 25 | 1879.999997 | 3 | 4700 |
| 3.8 | 25 | 1879.999994 | 6 | 4700 |
| 3.7 | 25 | 1879.999986 | 14 | 4700 |
| 3.65 | 25 | 1879.999984 | 16 | 4700 |

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**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 39 of 42

| Reference Frequency: PCS channel 1909.8MHz@ 25 degree | | | | |
|---|---------------------|-------------|---------------|---------------|
| Limit: +/- 2.5ppm = 4700Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature(degree) | (MHz) | | |
| 4.1 | 25 | 1909.799975 | 25 | 4700 |
| 4.0 | 25 | 1909.799985 | 15 | 4700 |
| 3.9 | 25 | 1909.799994 | 6 | 4700 |
| 3.8 | 25 | 1909.799991 | 9 | 4700 |
| 3.7 | 25 | 1909.799989 | 11 | 4700 |
| 3.65 | 25 | 1909.799984 | 16 | 4700 |

Note: The High voltage is DC 4.1V, the normal voltage is DC 3.9V, and the low voltage is DC 3.65V.

6.9 Conducted Emissions Mains Terminals, 150 kHz to 30MHz

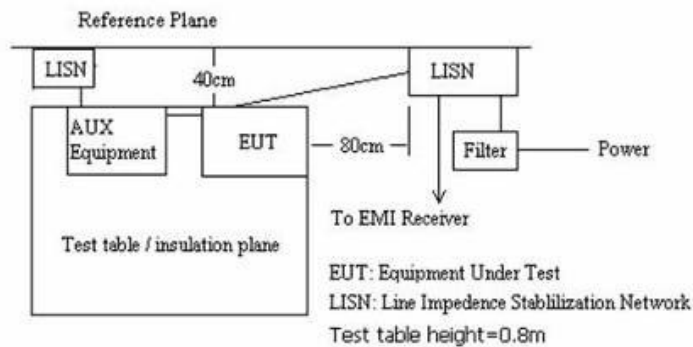
Test Requirement: Part 15.207
Test Method: ANSI C63.4:2003
Test Date: Aug 27, 2010
Frequency Range: 150KHz to 30MHz
Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

EUT Operation:

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Plan View of Test Setup



Limit:

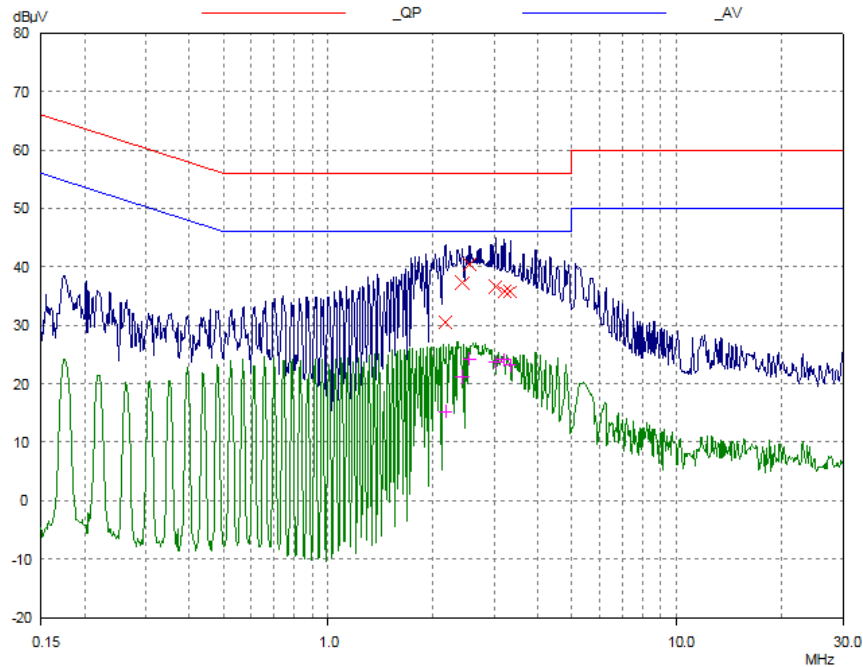
| Frequency range MHz | Limits dB(uV) | |
|---|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |
| Note 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. | | |

**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 41 of 42

GSM 1900 connected mode:

Live Line:



Final Measurement Results

| Frequency MHz | QP Level dBμV | QP Limit dBμV | QP Delta dB |
|------------------|------------------|------------------|----------------|
| 2.16455 | 30.59 | 56.00 | 25.41 |
| 2.42 | 37.19 | 56.00 | 18.81 |
| 2.53851 | 40.35 | 56.00 | 15.65 |
| 3.0249 | 36.67 | 56.00 | 19.33 |
| 3.19842 | 35.71 | 56.00 | 20.29 |
| 3.32842 | 35.79 | 56.00 | 20.21 |

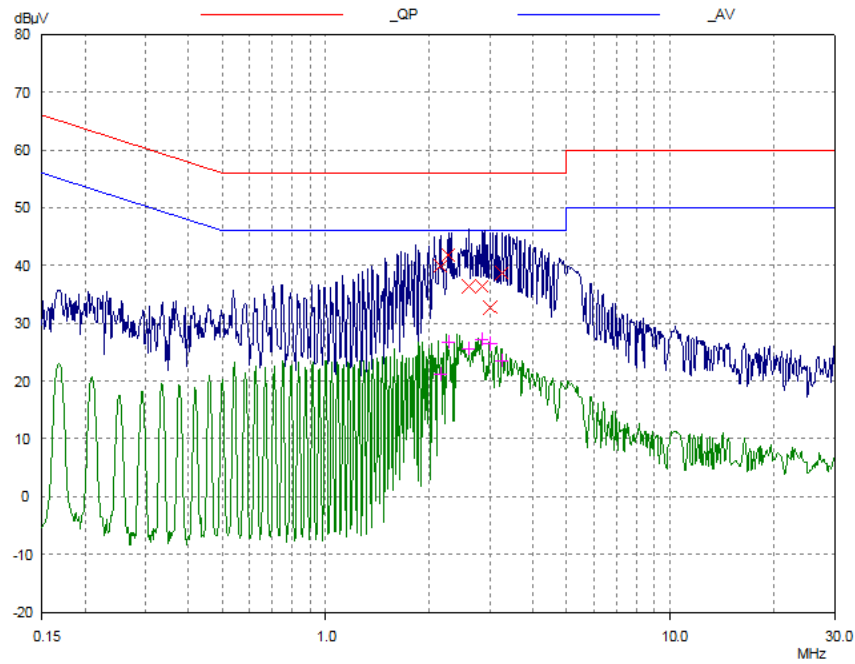
| Frequency MHz | AV Level dBμV | AV Limit dBμV | AV Delta dB |
|------------------|------------------|------------------|----------------|
| 2.16455 | 15.23 | 46.00 | 30.77 |
| 2.42 | 21.09 | 46.00 | 24.91 |
| 2.53851 | 24.24 | 46.00 | 21.76 |
| 3.0249 | 23.58 | 46.00 | 22.42 |
| 3.19842 | 24.17 | 46.00 | 21.83 |
| 3.32842 | 23.12 | 46.00 | 22.88 |

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**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

ReportNo.: SHEMO10080104805
Page: 42 of 42

N Line:



Final Measurement Results

| Frequency MHz | QP Level dBμV | QP Limit dBμV | QP Delta dB |
|------------------|------------------|------------------|----------------|
| 2.14738 | 39.87 | 56.00 | 16.13 |
| 2.27055 | 41.79 | 56.00 | 14.21 |
| 2.59993 | 36.31 | 56.00 | 19.69 |
| 2.83809 | 36.33 | 56.00 | 19.67 |
| 3.00089 | 32.79 | 56.00 | 23.21 |
| 3.2498 | 38.75 | 56.00 | 17.25 |

| Frequency MHz | AV Level dBμV | AV Limit dBμV | AV Delta dB |
|------------------|------------------|------------------|----------------|
| 2.14738 | 21.26 | 46.00 | 24.74 |
| 2.27055 | 26.77 | 46.00 | 19.23 |
| 2.59993 | 25.54 | 46.00 | 20.46 |
| 2.83809 | 27.18 | 46.00 | 18.82 |
| 3.00089 | 26.40 | 46.00 | 19.60 |
| 3.2498 | 23.51 | 46.00 | 22.49 |

~End of Report~

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