

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H and PART 24 SUBPART E

OF

Product Name: GSM 850/1900 mobile phone

Brand Name: Alcatel

Model Name: U7CA

Market Name: OT-E221A

FCC ID: RAD060

Report No.: ER/2007/70006

Issue Date: Jul. 16, 2007

FCC Rule Part: 2, 22H & 24E

Prepared for T&A mobile phones
3/F,B2 Block,Digital Technology Yard, Gaoxin
Nan Qi Road,Nan Shan Dis-
trict, Shenzhen,Guangdong,P.R.China

Prepared by SGS Taiwan Ltd.
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.

Note: This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.

VERIFICATION OF COMPLIANCE

T&A mobile phones

Applicant: 3/F,B2 Block,Digital Technology Yard, Gaoxin Nan Qi Road,Nan Shan District, Shenzhen,Guangdong,P.R.China

Equipment Under Test: GSM 850/1900 mobile phone

FCC ID Number: RAD060

Brand Name: Alcatel

Model No.: U7CA

Market name: OT-E221A

Model Difference: N/A

File Number: ER/2007/70006

Date of test: Jul. 06, 2007 ~ Jul. 12, 2007

Date of EUT Received: Jul. 5, 2007

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-1-1998 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H and FCC PART 24 subpart E.

The test results of this report relate only to the tested sample identified in this report.

| | | | |
|---------------------|----------------------------------|-------------|----------------------|
| Test By: | <u>Jazz Huang</u> | Date | <u>Jul. 16, 2007</u> |
| | <i>Jazz Huang / Sr.Engineer</i> | | |
| Prepared By: | <u>Alex Hsieh</u> | Date | <u>Jul. 16, 2007</u> |
| | <i>Alex Hsieh / St. Engineer</i> | | |
| Approved By: | <u>Vincent Su</u> | Date | <u>Jul. 16, 2007</u> |
| | <i>Vincent Su / Manager</i> | | |

Version

| Version No. | Date |
|-------------|---------------|
| 00 | Jul. 16, 2007 |
| | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Table of Contents

1. GENERAL INFORMATION 6

1.1 Product Description 6

1.2 Related Submittal(s) / Grant (s) 7

1.3 Test Methodology 7

1.4 Test Facility 7

1.5 Special Accessories 7

1.6 Equipment Modifications 7

2. SYSTEM TEST CONFIGURATION 8

2.1 EUT Configuration 8

2.2 EUT Exercise 8

2.3 Test Procedure 8

2.4 Configuration of Tested System 9

3. SUMMARY OF TEST RESULTS 10

4. DESCRIPTION OF TEST MODES 10

5. RF POWER OUTPUT MEASUREMENT 11

5.1 Standard Applicable 11

5.2 Test Set-up: 11

5.3 Measurement Procedure 11

5.4 Measurement Equipment Used: 12

5.5 Measurement Result 12

6. ERP, EIRP MEASUREMENT 13

6.1 Standard Applicable 13

6.2 Test SET-UP (Block Diagram of Configuration) 13

6.3 Measurement Procedure 15

6.4 Measurement Equipment Used: 16

6.5 Measurement Result 17

6.6 Measurement Result 18

7. 99% OCCUPIED BANDWIDTH MEASUREMENT 19

7.1 Standard Applicable 19

7.2 Test Set-up: 19

7.3 Measurement Procedure 19

7.4 Measurement Equipment Used: 20

7.5 Measurement Result: 20

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

| | |
|---|-----------|
| 8. OUT OF BAND EMISSION AT ANTENNA TERMINALS | 25 |
| 8.1 Standard Applicable | 25 |
| 8.2 Test SET-UP..... | 25 |
| 8.3 Measurement Procedure..... | 25 |
| 8.4 Measurement Equipment Used: | 26 |
| 8.5 Measurement Result..... | 27 |
| 9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT | 35 |
| 9.1 Standard Applicable | 35 |
| 9.2 EUT Setup (Block Diagram of Configuration)..... | 35 |
| 9.3 Measurement Procedure..... | 37 |
| 9.4 Measurement Equipment Used: | 38 |
| 9.5 Measurement Result..... | 38 |
| 10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT | 51 |
| 10.1 Standard Applicable | 51 |
| 10.2 Test Set-up: | 51 |
| 10.3 Measurement Procedure..... | 51 |
| 10.4 Measurement Equipment Used: | 52 |
| 10.5 Measurement Result..... | 53 |
| 11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT | 54 |
| 11.1 Standard Applicable | 54 |
| 11.2 Test Set-up: | 54 |
| 11.3 Measurement Procedure..... | 54 |
| 11.4 Measurement Equipment Used: | 55 |
| 11.5 Measurement Result..... | 56 |
| 12. AC POWER LINE CONDUCTED EMISSION TEST | 57 |
| 12.1 Standard Applicable | 57 |
| 12.2 EUT Setup..... | 57 |
| 12.3 Measurement Procedure..... | 57 |
| 12.4 Measurement Equipment Used: | 58 |
| 12.5 Measurement Result..... | 58 |
| APPENDIX 1 PHOTOGRPHS OF SET UP | 67 |
| APPENDIX 2 PHOTOGRPHS OF EUT | 70 |

1. GENERAL INFORMATION

Product Description

| | | |
|-------------------|---|--|
| Product: | GSM 850/1900 mobile phone | |
| Model Name: | U7CA | |
| Market name: | OT-E221A | |
| Model Difference: | N/A | |
| Brand Name: | Alcatel | |
| Power Supply | 3.7 Vdc re-chargeable battery or two 5Vdc by AC/DC power adaptors | |
| | Battery Model: | T5001298AAAA (BYD) |
| | Adapter Model: | T5000436AGAA (TenPao) , T5001448AGAA (TenPao) |

GSM:

| | | |
|---------------------------|----------------------------|--------|
| Frequency Range and Power | GSM 850: 824MHz –849MHz | 33 dBm |
| | GSM 1900: 1850MHz –1910MHz | 30 dBm |
| Type of Emission: | 300KGXW | |
| Software Version: | N/A | |
| Hardware Version: | N/A | |
| IMEI: | 011163000026149 | |

Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **RAD060** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 & 10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

Special Accessories

Not available for this EUT intended for grant.

Equipment Modifications

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

EUT Configuration

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

EUT Exercise

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

Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 1.0 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel)

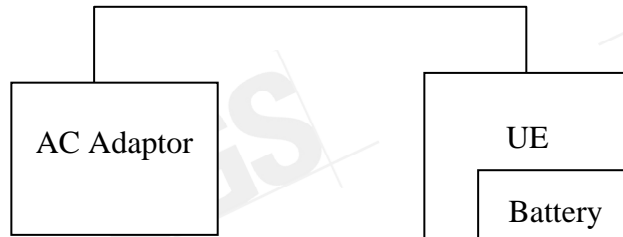


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------------------------|-----------|--------------------|------------|------------|-------------|
| 1 | Universal Radio Communication Tester | R&S | CMU200 | 102189 | shielded | Un-shielded |

3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|--|--|-----------|
| §2.1046(a) §22.913(a) §24.232(a) | RF Power Output | Compliant |
| §2.1046(a) §22.913(a) §24.232(a) | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | 99% Occupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) | Out of Band Emissions at Antenna Terminals and Band Edge | Compliant |
| §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation | Compliant |
| §2.1055(a)(1)(b) | Frequency Stability vs. Temperature | Compliant |
| §2.1055(d)(1)(2) | Frequency Stability vs. Voltage | Compliant |
| §15.107;§15.207 | AC Power Line Conducted Emission | Compliant |

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 and GPRS with all power adaptors, earphone and Data cable. The worst-case H mode for GSM 850 band and H mode for GSM 1900 band with adaptor for channel Low, Mid and High at GSM mode was reported.

All tests were carried out for worst adaptor: **T5001448AGAA**,

5. RF POWER OUTPUT MEASUREMENT

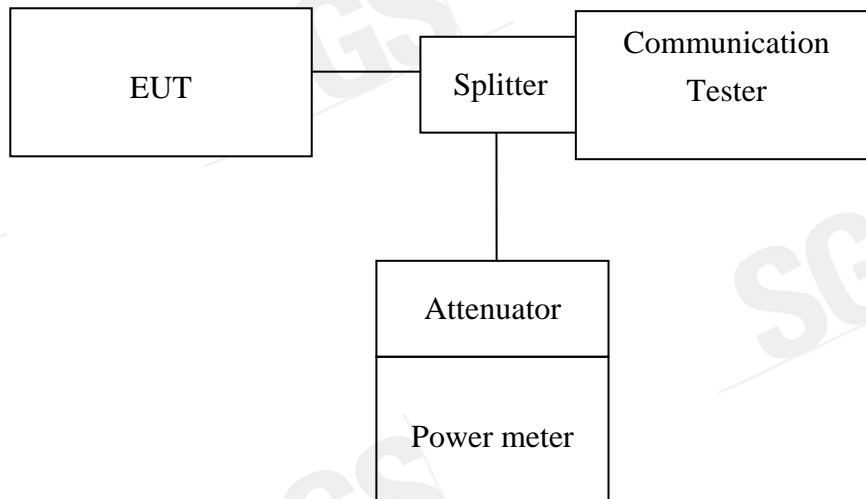
Standard Applicable

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.

FCC 24.232(b) Mobile station are limited to 2W.

Test Set-up:



Note: Measurement setup for testing on Antenna connector

Measurement Procedure

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

Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 06/28/2007 | 06/27/2008 |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 11/09/2006 | 11/10/2007 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Power Sensor | Anritsu | MA2490A | 31431 | 06/28/2007 | 06/27/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 06/28/2007 | 06/27/2008 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 10/14/2006 | 10/13/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 09/23/2006 | 09/22/2007 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 09/23/2006 | 09/22/2007 |
| Splitter | Agilent | 11636B | 51728 | 09/23/2006 | 09/22/2007 |
| DC Power Supply | TOPWARD | 3303A | N/A | N/A | N/A |

Measurement Result

| EUT Mode | Frequency (MHz) | CH | Power meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|----------|-----------------|-----|---------------------------|----------------|------------------|
| GSM 850 | 824.20 | 128 | 14.25 | 16.90 | 31.15 |
| | 836.60 | 190 | 13.72 | 16.90 | 30.62 |
| | 848.80 | 251 | 13.26 | 16.90 | 30.16 |

| EUT Mode | Frequency (MHz) | CH | Power Meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|----------|-----------------|-----|---------------------------|----------------|------------------|
| PCS 1900 | 1850.20 | 512 | 13.39 | 16.90 | 30.29 |
| | 1880.00 | 661 | 13.17 | 16.90 | 30.07 |
| | 1909.80 | 810 | 12.04 | 16.90 | 28.94 |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

6. ERP, EIRP MEASUREMENT

Standard Applicable

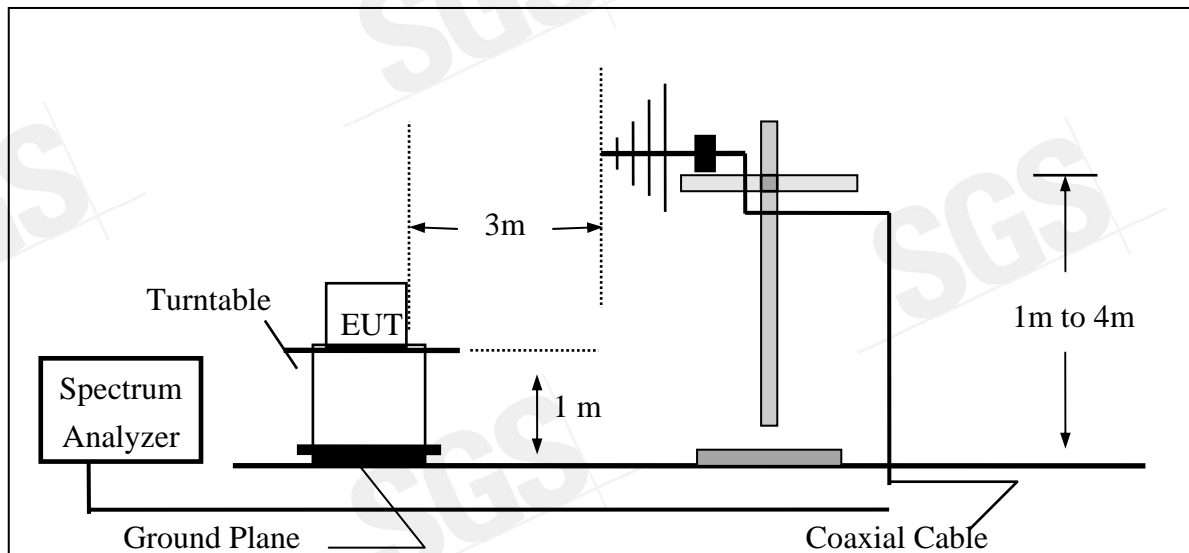
According to FCC §2.1046

FCC 22.913(a) Mobile station are limited to 7W ERP.

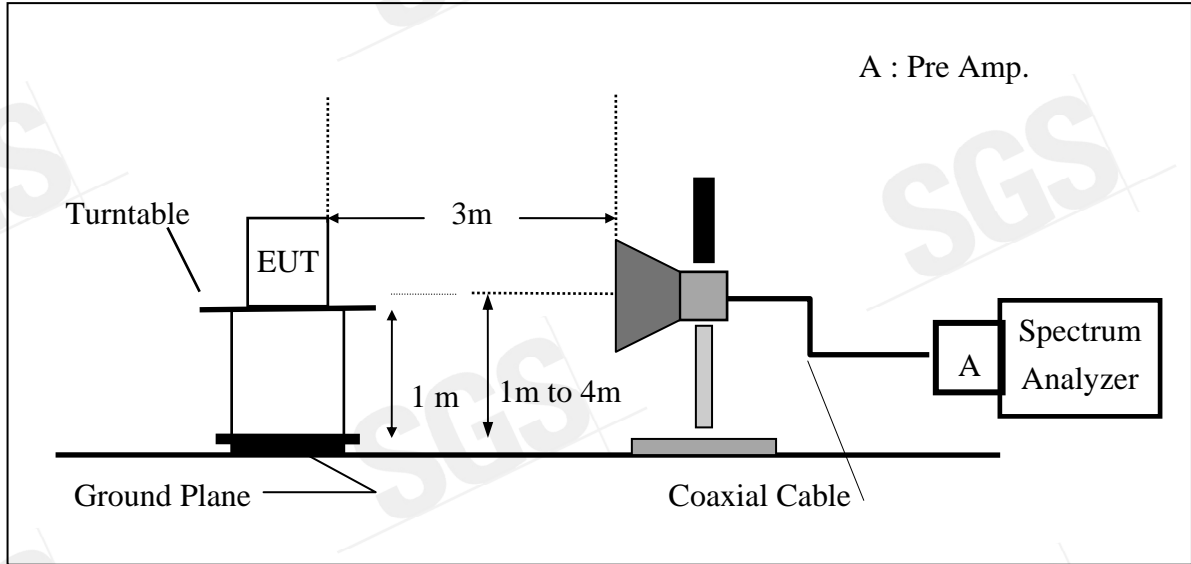
FCC 24.232(b) Mobile station are limited to 2W EIRP.

Test SET-UP (Block Diagram of Configuration)

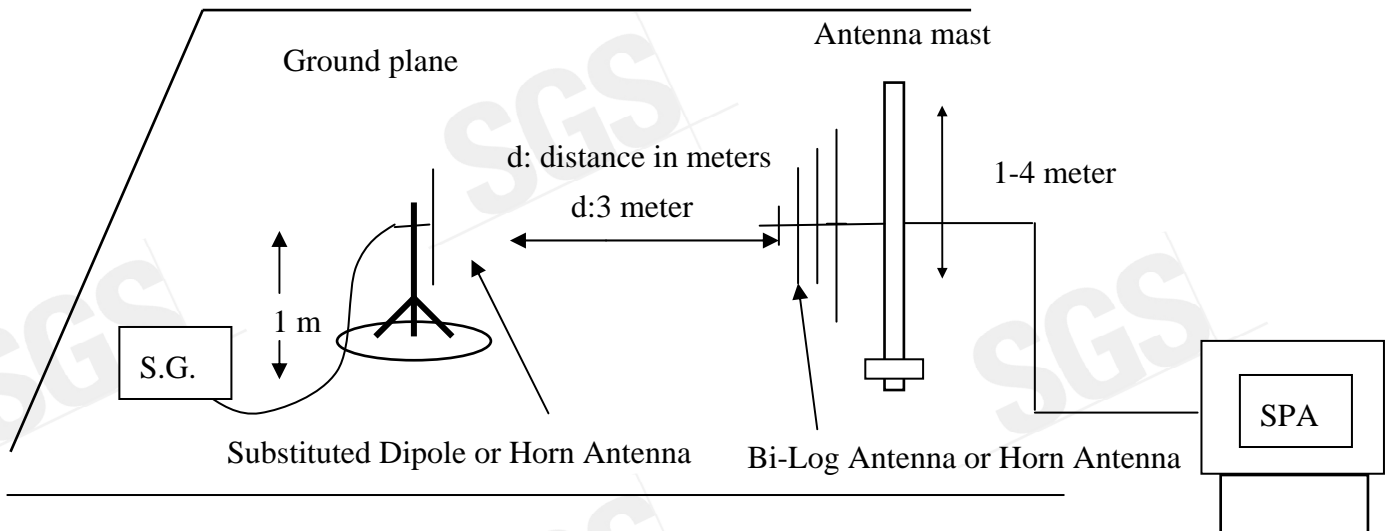
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



Measurement 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 the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –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:

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

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

Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|--------------------|--------------|----------------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | 7405A | US41160416 | 06/28/2007 | 06/27/2008 |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 11/09/2006 | 11/10/2007 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 3224 | 11/14/2006 | 13/11/2007 |
| Horn antenna | Schwarzbeck | BBHA 9120D | 309/320 | 08/16/2006 | 08/15/2007 |
| Pre-Amplifier | HP | 8447D | 2944A09469 | 07/19/2007 | 07/18/2008 |
| Pre-Amplifier | HP | 8494B | 3008A00578 | 02/26/2007 | 02/25/2008 |
| Signal Generator | R&S | SMR40 | 100210 | 02/09/2007 | 02/10/2008 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 10/09/2006 | 10/08/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 10/09/2006 | 10/08/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-0.5M | 0.5m | 10/09/2006 | 10/08/2007 |
| Site NSA | SGS | 966 chamber | N/A | 11/17/2006 | 11/16/2007 |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 09/23/2006 | 09/22/2007 |
| Dipole Antenna | Schwarzbeck | VHAP | 908/909 | 06/10/2006 | 06/09/2008 |
| Dipole Antenna | Schwarzbeck | UHAP | 891/892 | 06/10/2006 | 06/09/2008 |
| Horn antenna | Schwarzbeck | BBHA 9120D | N/A | 08/16/2006 | 08/15/2007 |

Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| GSM 850 | 824.20 | 128 | H | V | 123.21 | 36.82 | -7.87 | 3.62 | 25.32 | 38.45 |
| | | | | H | 130.85 | 44.58 | -7.87 | 3.62 | 33.08 | 38.45 |
| | | | E1 | V | 129.79 | 43.40 | -7.87 | 3.62 | 31.90 | 38.45 |
| | | | | H | 120.84 | 34.57 | -7.87 | 3.62 | 23.07 | 38.45 |
| | | | E2 | V | 123.60 | 37.21 | -7.87 | 3.62 | 25.71 | 38.45 |
| | | | | H | 129.08 | 42.81 | -7.87 | 3.62 | 31.31 | 38.45 |
| | 836.60 | 190 | H | V | 123.66 | 37.41 | -7.88 | 3.65 | 25.88 | 38.45 |
| | | | | H | 130.00 | 43.77 | -7.88 | 3.65 | 32.24 | 38.45 |
| | | | E1 | V | 129.35 | 43.10 | -7.88 | 3.65 | 31.57 | 38.45 |
| | | | | H | 120.87 | 34.64 | -7.88 | 3.65 | 23.11 | 38.45 |
| | | | E2 | V | 122.71 | 36.46 | -7.88 | 3.65 | 24.93 | 38.45 |
| | | | | H | 128.21 | 41.98 | -7.88 | 3.65 | 30.45 | 38.45 |
| | 848.80 | 251 | H | V | 122.45 | 36.33 | -7.88 | 3.68 | 24.77 | 38.45 |
| | | | | H | 129.74 | 43.55 | -7.88 | 3.68 | 31.99 | 38.45 |
| | | | E1 | V | 130.17 | 44.05 | -7.88 | 3.68 | 32.49 | 38.45 |
| | | | | H | 122.03 | 35.84 | -7.88 | 3.68 | 24.28 | 38.45 |
| | | | E2 | V | 121.74 | 35.62 | -7.88 | 3.68 | 24.06 | 38.45 |
| | | | | H | 128.76 | 42.57 | -7.88 | 3.68 | 31.01 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

Measurement Result

| 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 | 1850.20 | 512 | H | V | 122.24 | 17.85 | 9.90 | 5.56 | 22.19 | 33.00 | | |
| | | | | H | 128.33 | 24.15 | 9.90 | 5.56 | 28.49 | 33.00 | | |
| | | | E1 | V | 126.03 | 21.64 | 9.90 | 5.56 | 25.98 | 33.00 | | |
| | | | | H | 125.94 | 21.76 | 9.90 | 5.56 | 26.10 | 33.00 | | |
| | | | E2 | V | 126.57 | 22.18 | 9.90 | 5.56 | 26.52 | 33.00 | | |
| | | | | H | 128.33 | 24.15 | 9.90 | 5.84 | 28.21 | 33.00 | | |
| | | | 1880.00 | 661 | H | V | 122.83 | 18.47 | 9.99 | 5.61 | 22.85 | 33.00 |
| | | | | | | H | 129.55 | 25.41 | 9.99 | 5.61 | 29.78 | 33.00 |
| | E1 | V | | | 126.50 | 22.14 | 9.99 | 5.61 | 26.52 | 33.00 | | |
| | | H | | | 127.38 | 23.24 | 9.99 | 5.61 | 27.61 | 33.00 | | |
| | E2 | V | | | 127.62 | 23.26 | 9.99 | 5.61 | 27.64 | 33.00 | | |
| | | H | | | 128.73 | 24.59 | 9.99 | 5.61 | 28.96 | 33.00 | | |
| | 1909.80 | 810 | | | H | V | 122.74 | 18.41 | 10.08 | 5.66 | 22.83 | 33.00 |
| | | | | | | H | 128.61 | 24.50 | 10.08 | 5.66 | 28.92 | 33.00 |
| | | | E1 | V | 126.37 | 22.04 | 10.08 | 5.66 | 26.46 | 33.00 | | |
| | | | | H | 126.47 | 22.36 | 10.08 | 5.66 | 26.78 | 33.00 | | |
| | | | E2 | V | 127.45 | 23.12 | 10.08 | 5.66 | 27.54 | 33.00 | | |
| | | | | H | 128.17 | 24.06 | 10.08 | 5.66 | 28.48 | 33.00 | | |

Remark :

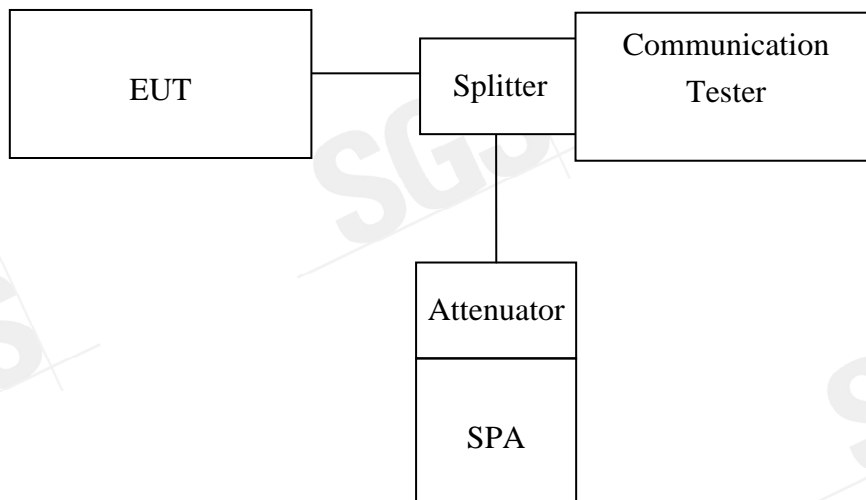
- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

7. 99% OCCUPIED BANDWIDTH MEASUREMENT

Standard Applicable

According to §FCC 2.1049.

Test Set-up:



Note: Measurement setup for testing on Antenna connector

Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -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.

Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | 7405A | US41160416 | 06/28/2007 | 06/27/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 06/28/2007 | 06/27/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 06/28/2007 | 06/27/2008 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 11/11/2006 | 11/12/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 10/07/2006 | 10/06/2007 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 10/07/2006 | 10/06/2007 |
| Splitter | Mini-Circuit | ZFSC-2-10G | N/A | 10/07/2006 | 10/06/2007 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2006 | 11/10/2007 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2007 | 01/05/2008 |

Measurement Result:.

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| GSM 850 | 824.20 | 128 | 0.2375 |
| | 836.60 | 190 | 0.2446 |
| | 848.80 | 251 | 0.2434 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| PCS 1900 | 1850.20 | 512 | 0.2445 |
| | 1880.00 | 661 | 0.2458 |
| | 1909.80 | 810 | 0.2415 |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Figure 7-1: GSM Channel Low

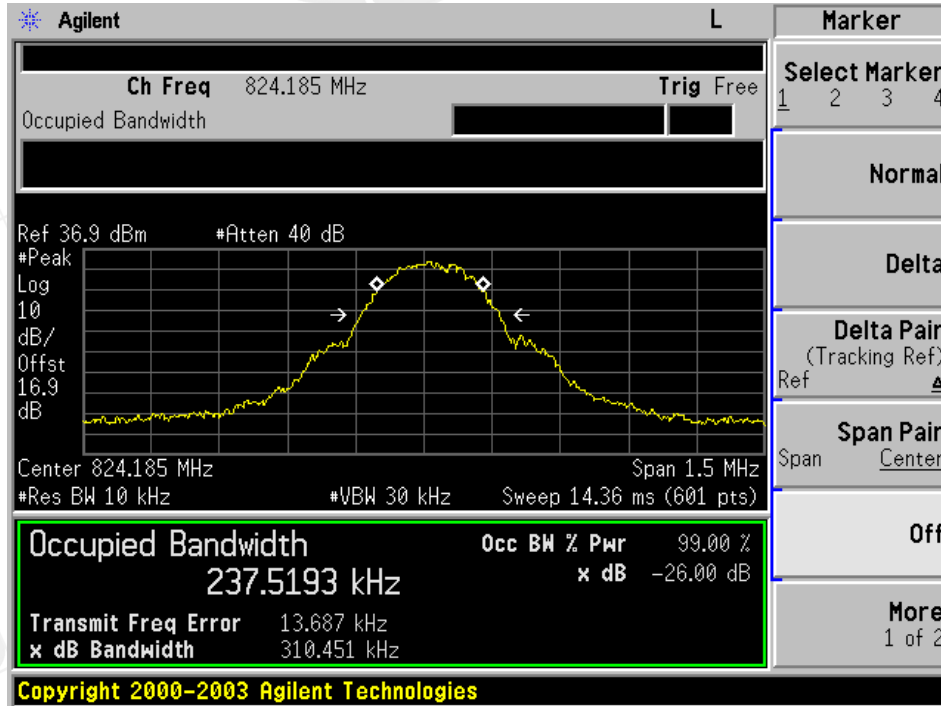


Figure 7-2 GSM Channel Mid

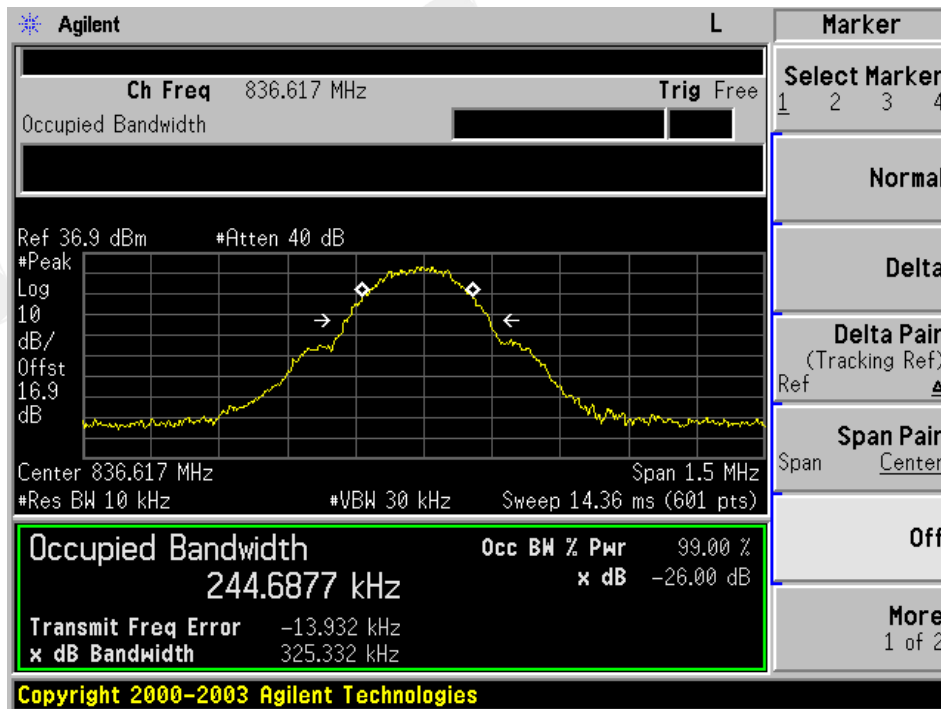


Figure 7-3: GSM Channel High

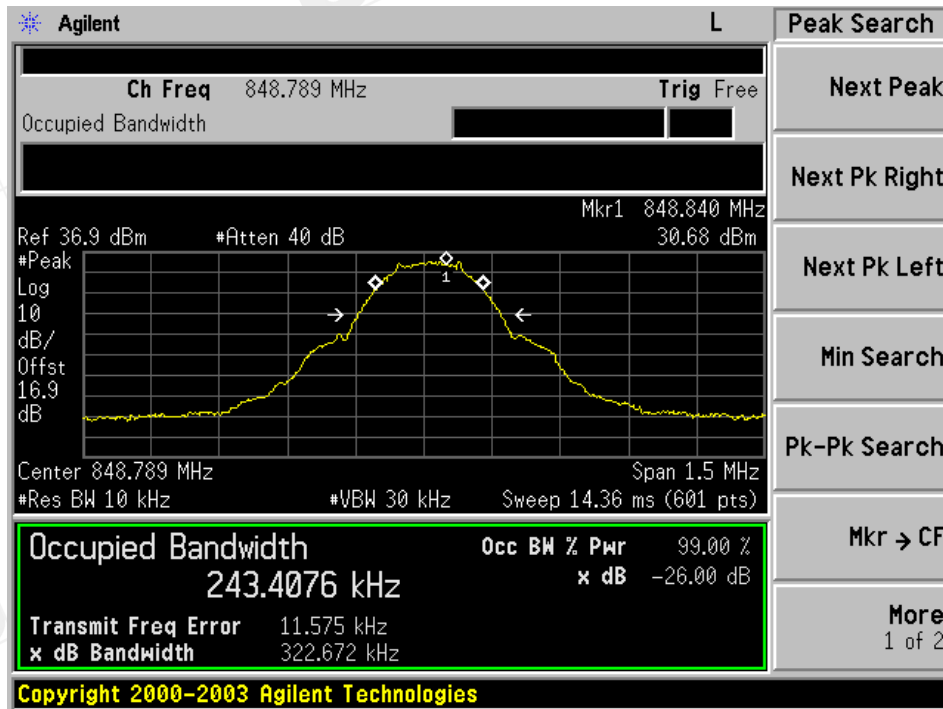


Figure 7-4: PCS Channel Low

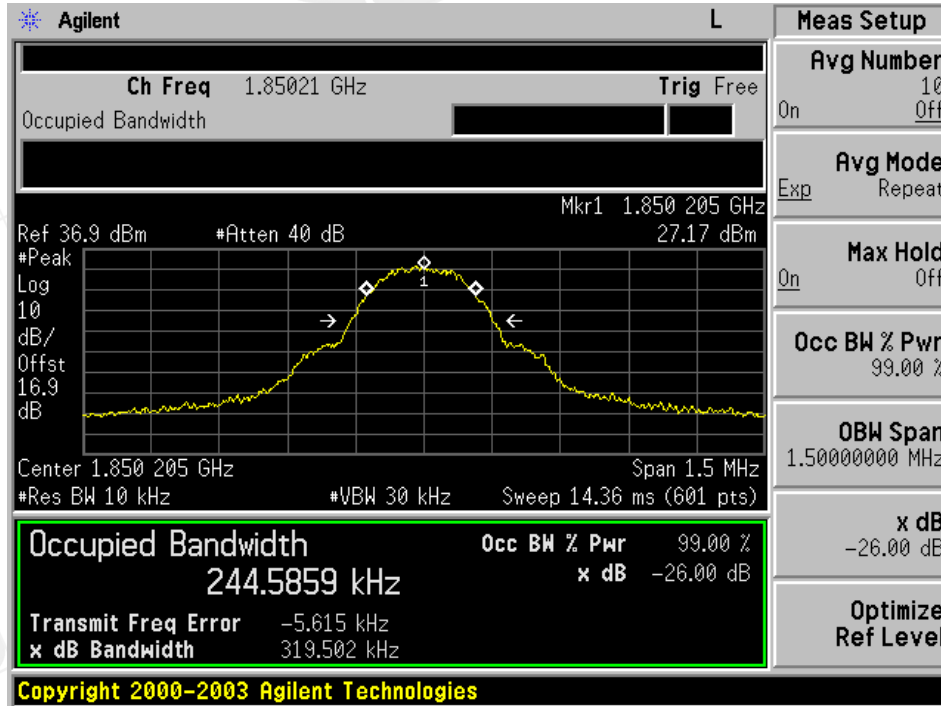


Figure 7-5 PCS Channel Mid

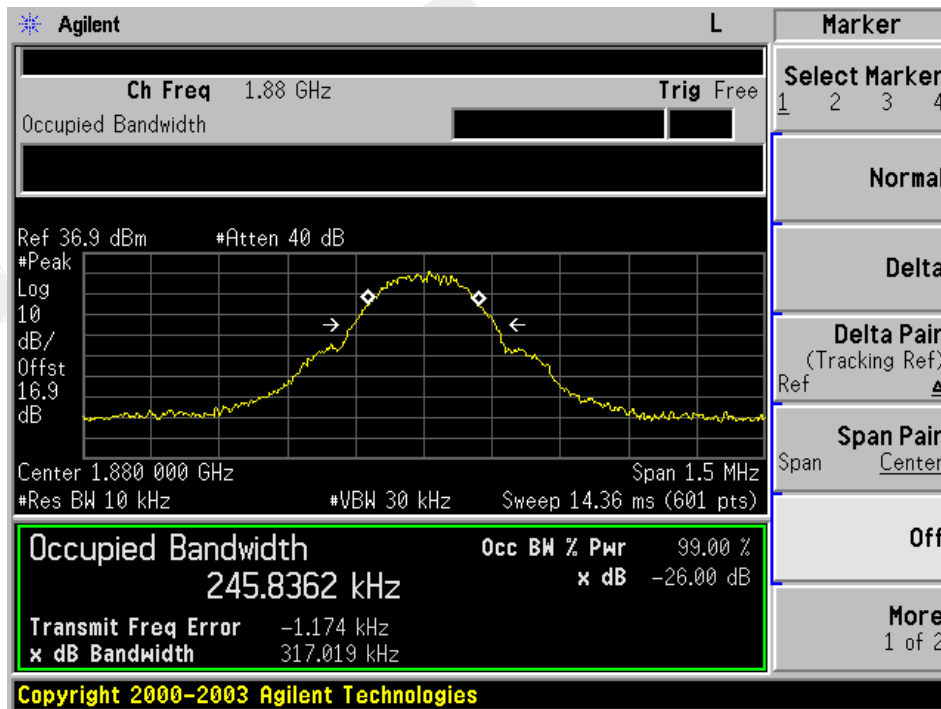
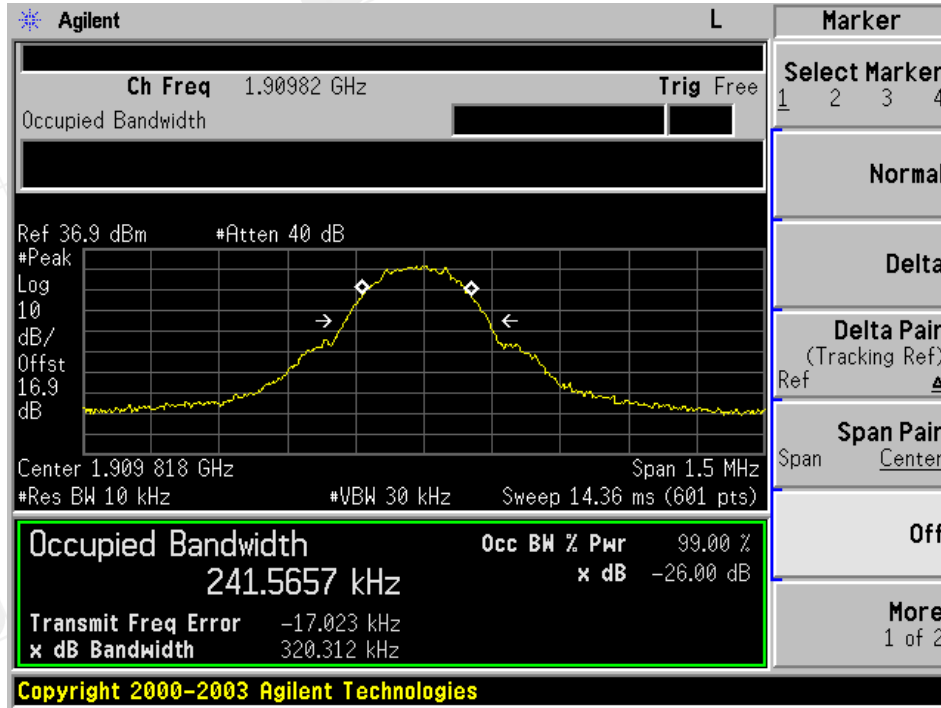


Figure 7-6: PCS Channel High



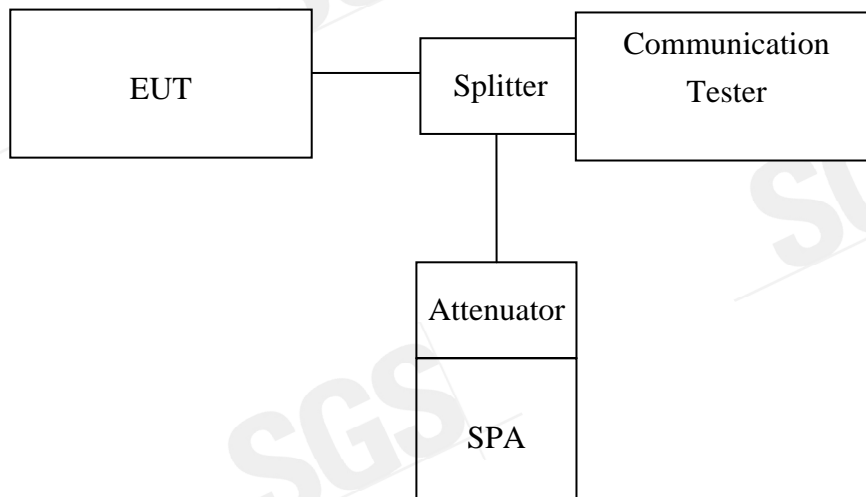
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

Standard Applicable

According to FCC §2.1051.

FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

Test SET-UP



Note: Measurement setup for testing on Antenna connector

Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 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.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.
Limit = -13dBm

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. Limit, -13dBm.

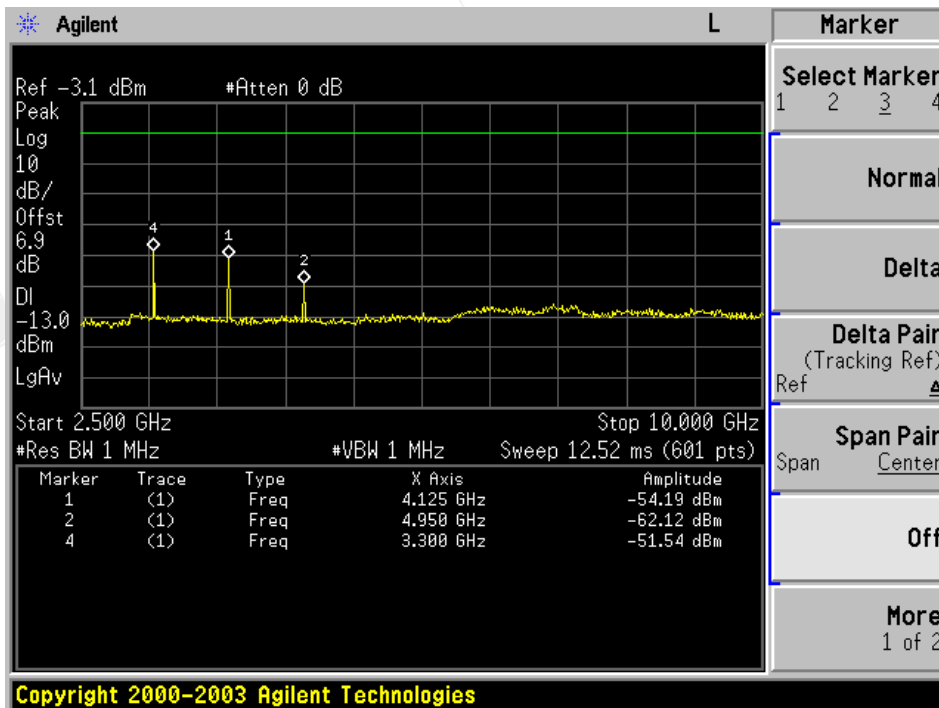
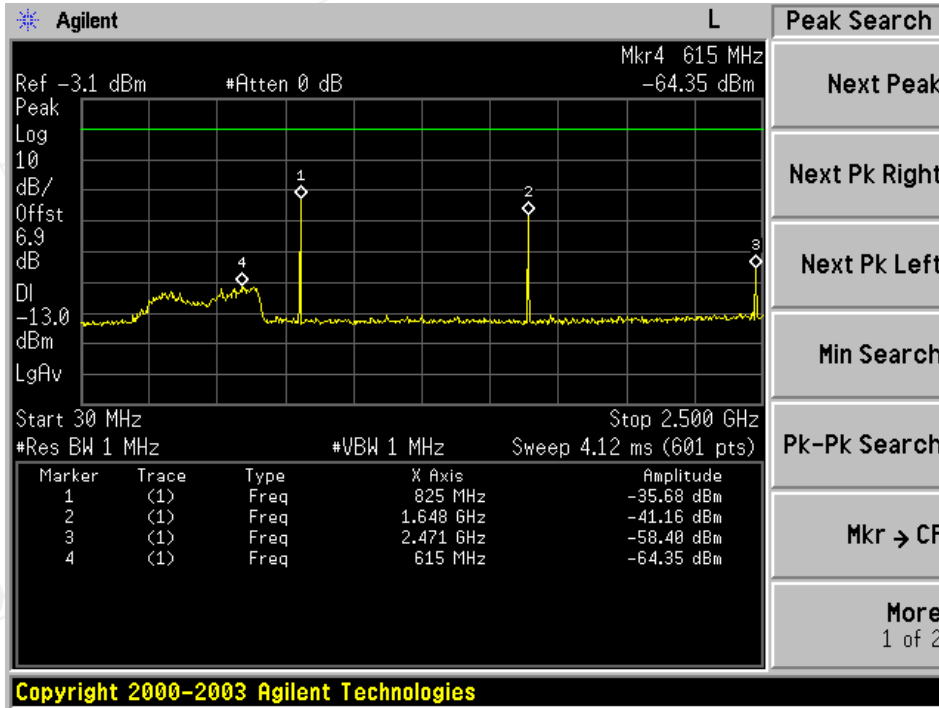
Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | 7405A | US41160416 | 06/28/2007 | 06/27/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 06/28/2007 | 06/27/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 06/28/2007 | 06/27/2008 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 11/11/2006 | 11/12/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 10/07/2006 | 10/06/2007 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 10/07/2006 | 10/06/2007 |
| Splitter | Mini-Circuit | ZFSC-2-10G | N/A | 10/07/2006 | 10/06/2007 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2006 | 11/10/2007 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2007 | 01/05/2008 |
| Band reject filter | Wicro-tronics | BRM13462 | 001 | 06/28/2007 | 06/27/2008 |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

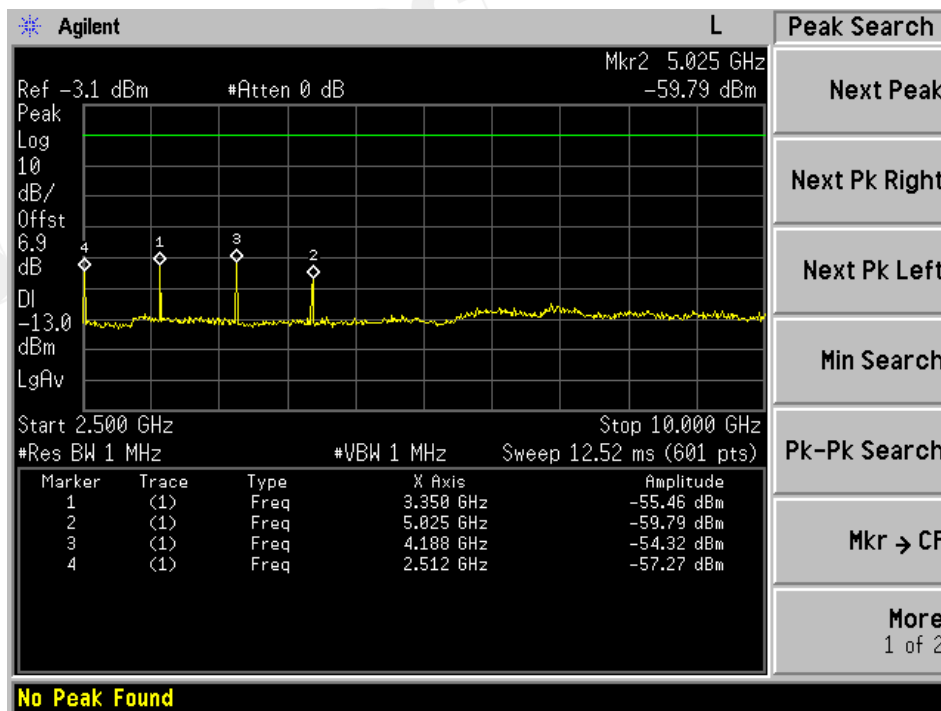
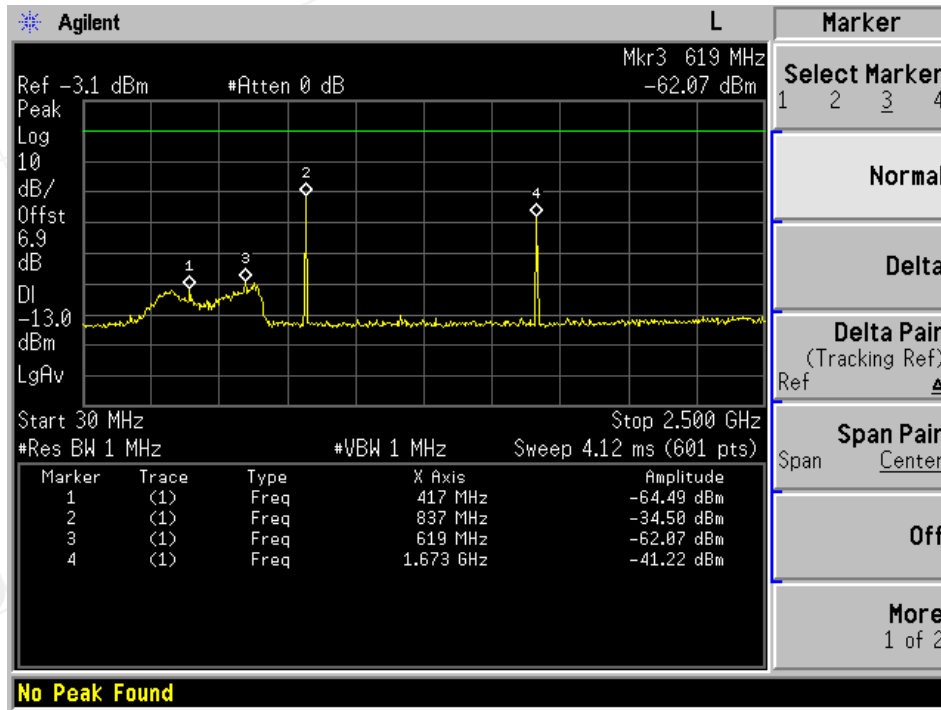
Measurement Result

Figure 8-1: Out of Band emission at antenna terminals– GSM Channel Lowest



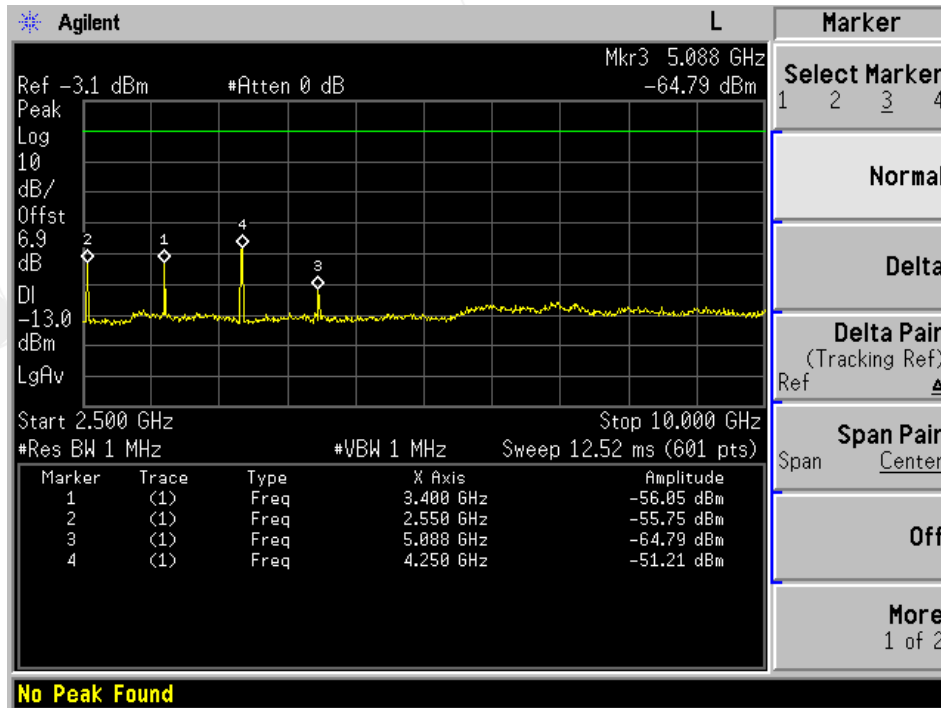
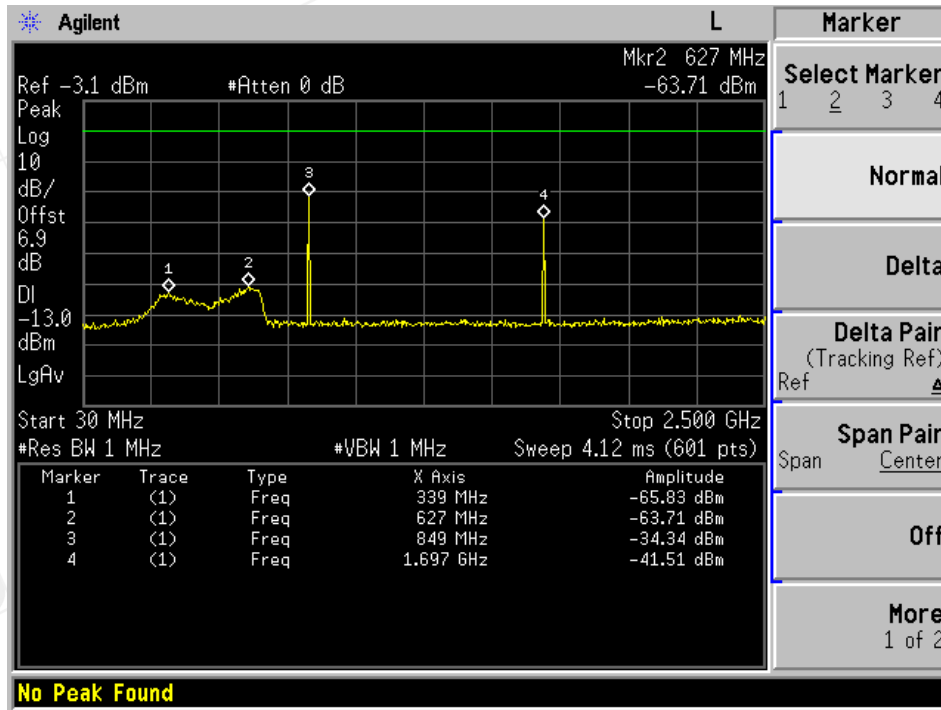
This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Figure 8-3: Out of Band emission at antenna terminals–GSM Channel Highest



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Figure 8-4: Bad edge emission at antenna terminals – GSM Channel Lowest



Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest

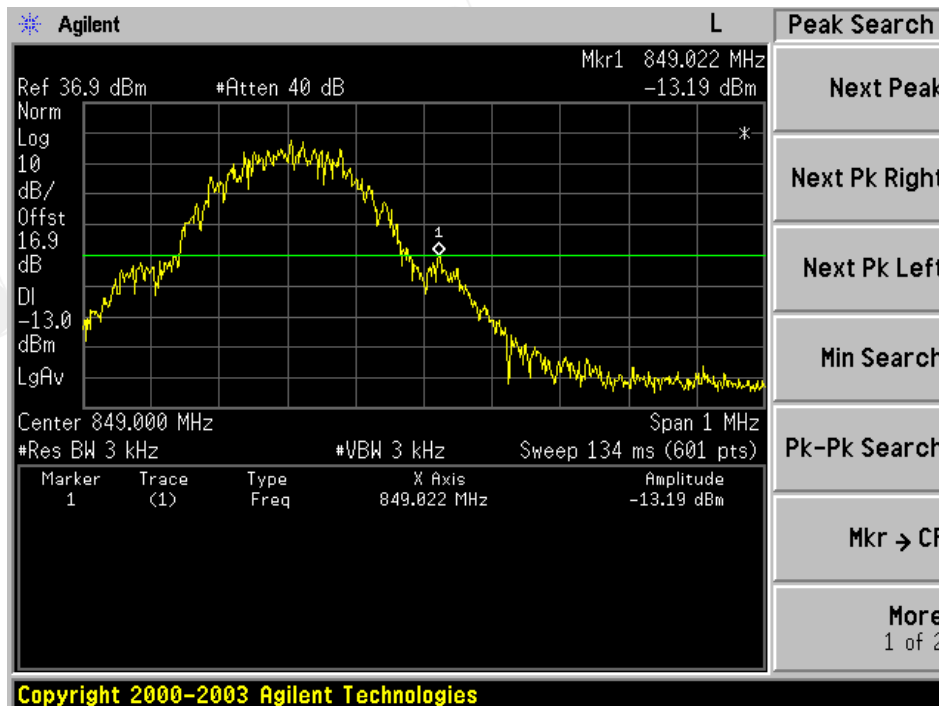
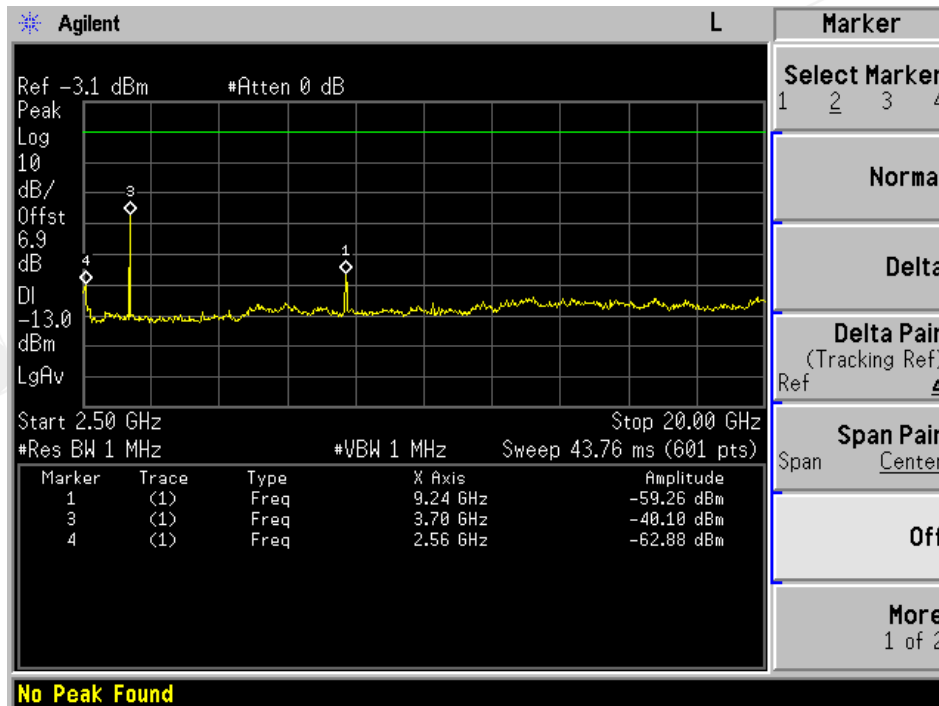
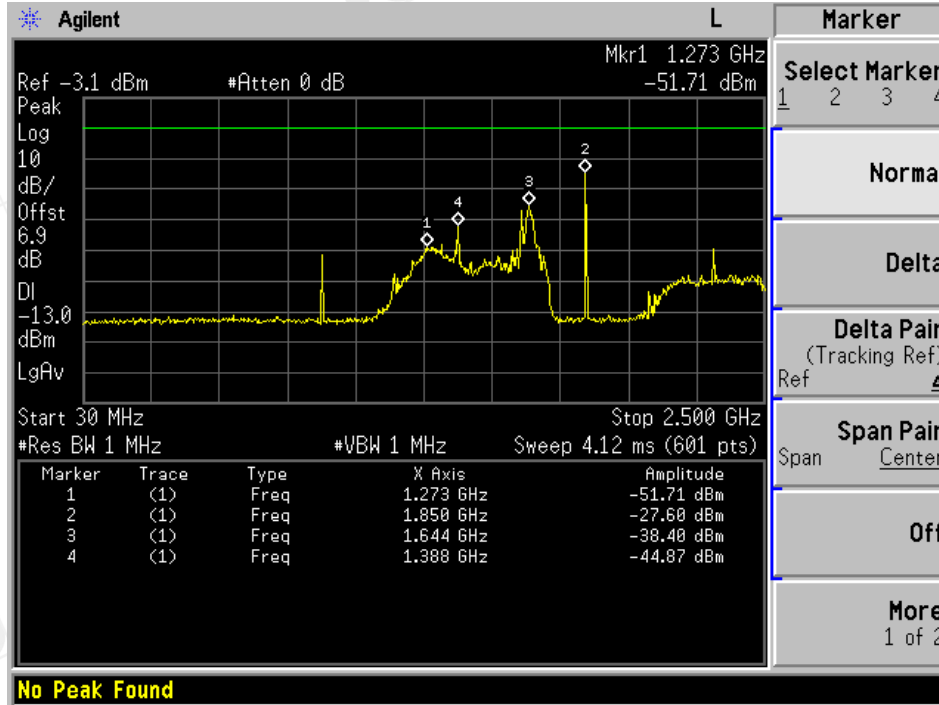


Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid

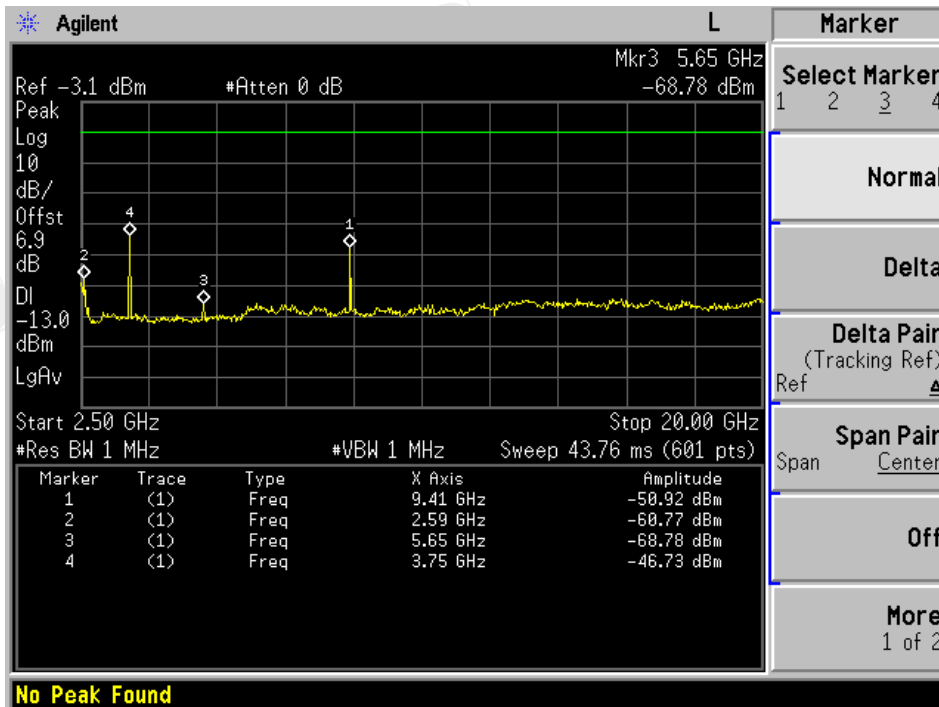
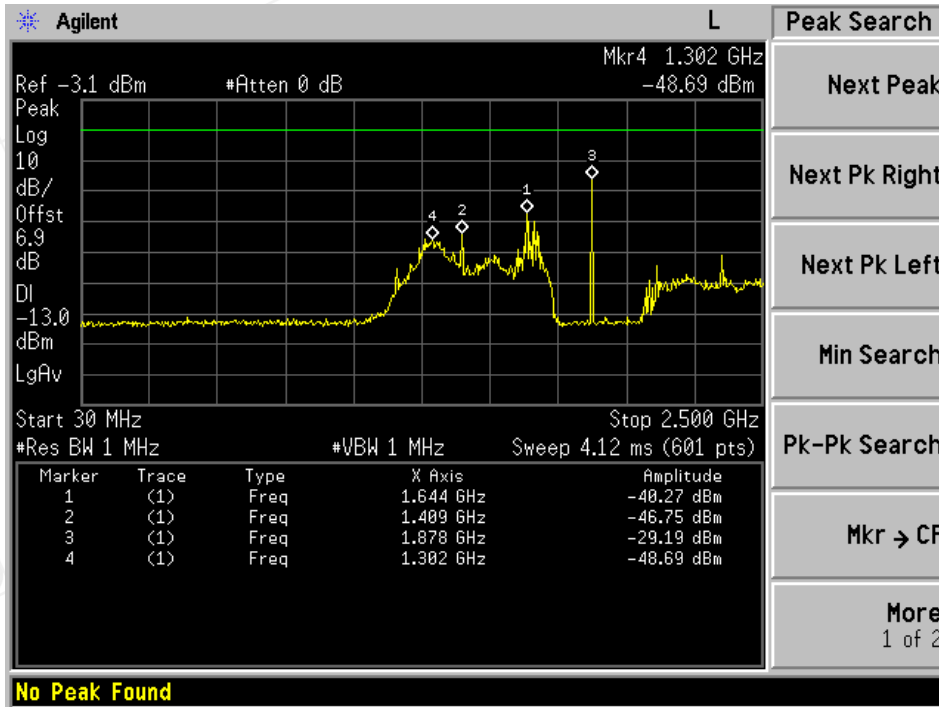
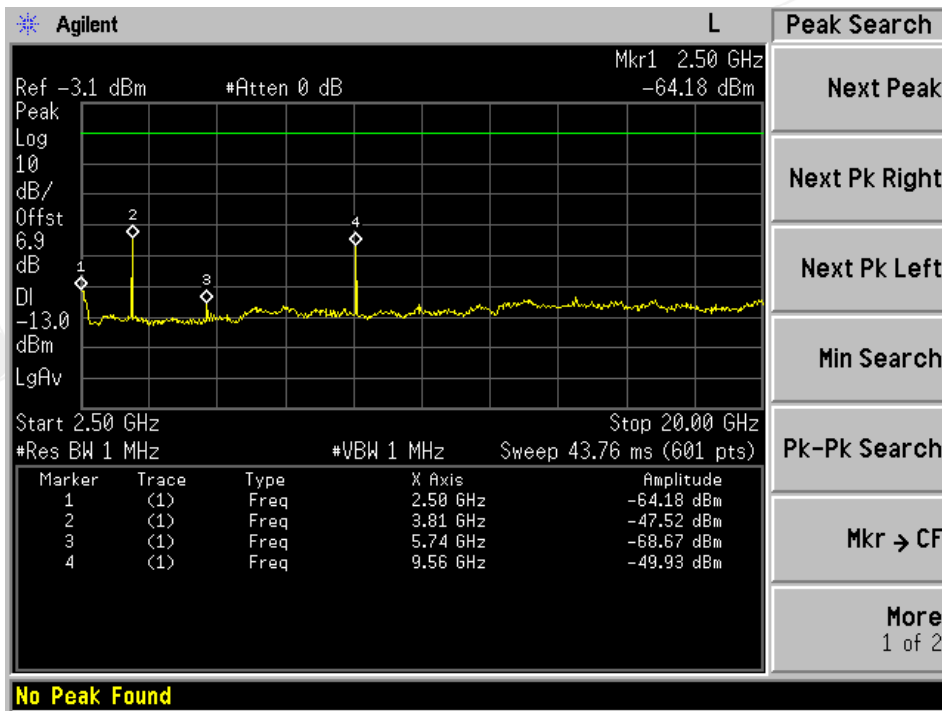
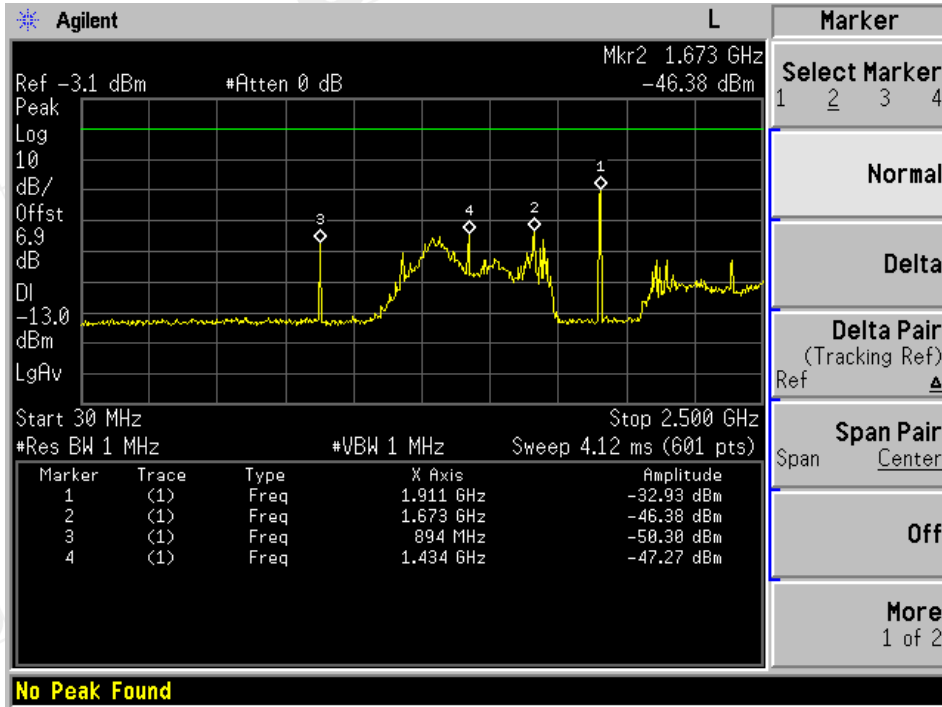


Figure 8-8: Out of Band emission at antenna terminals–PCS Channel Highest



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Figure 8-9: Bad edge emission at antenna terminals – PCS Channel Lowest

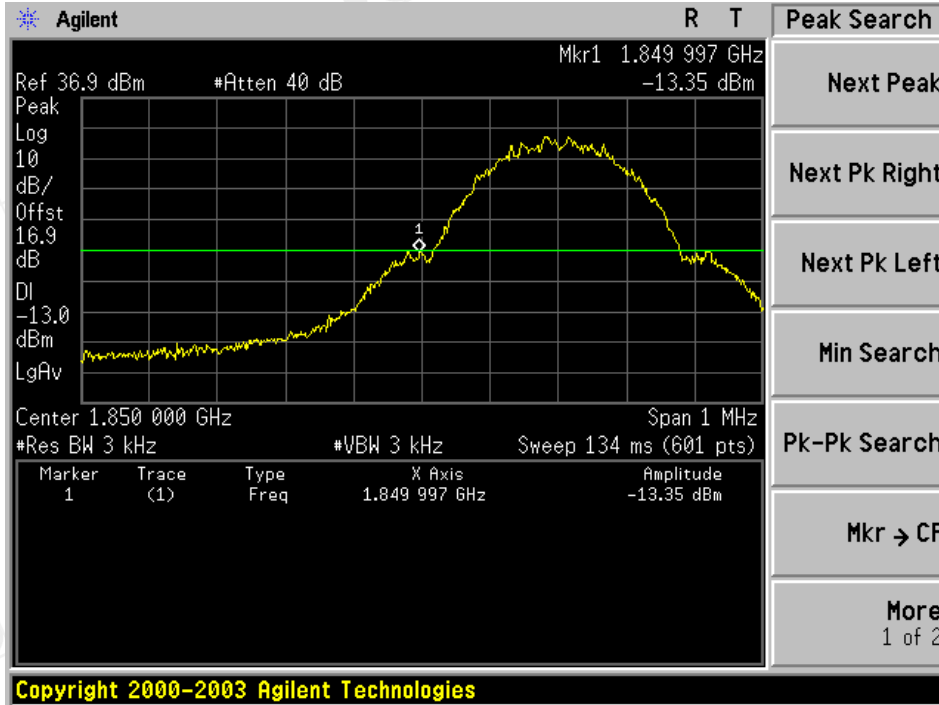
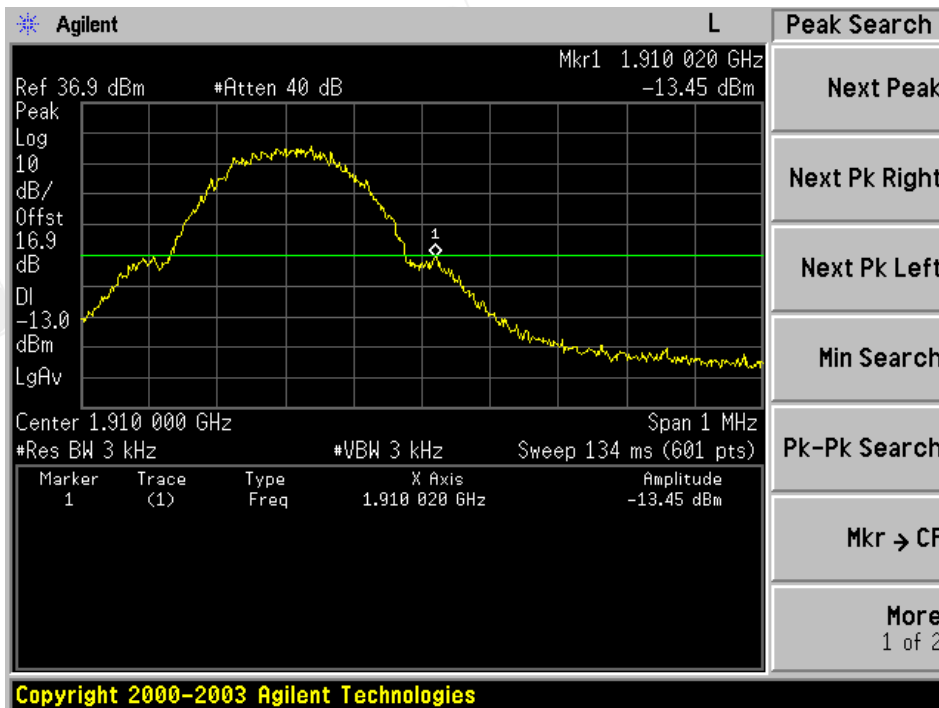


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

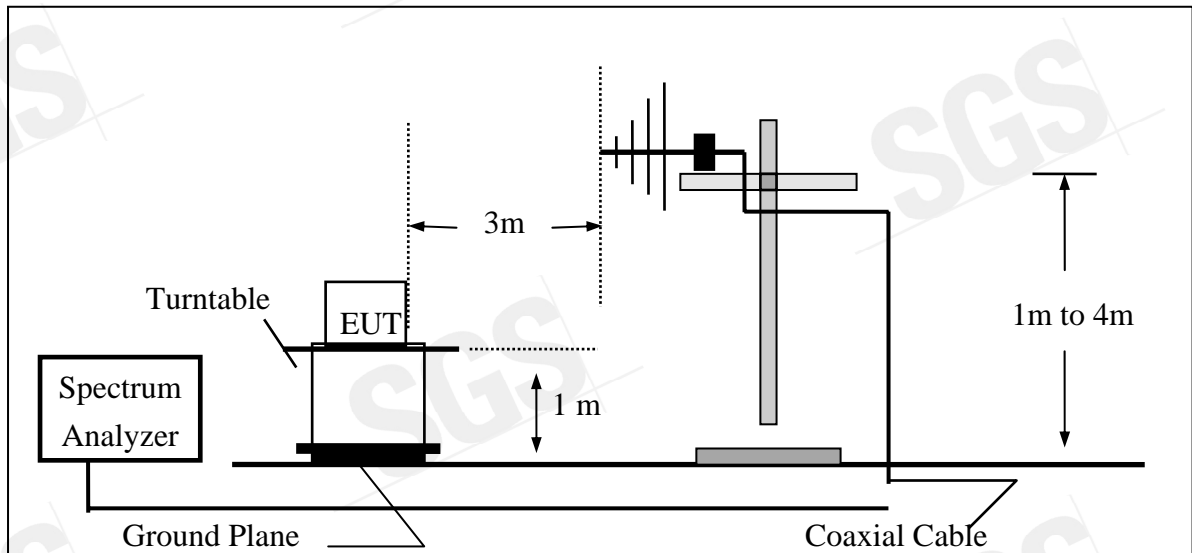
Standard Applicable

According to FCC §2.1053,

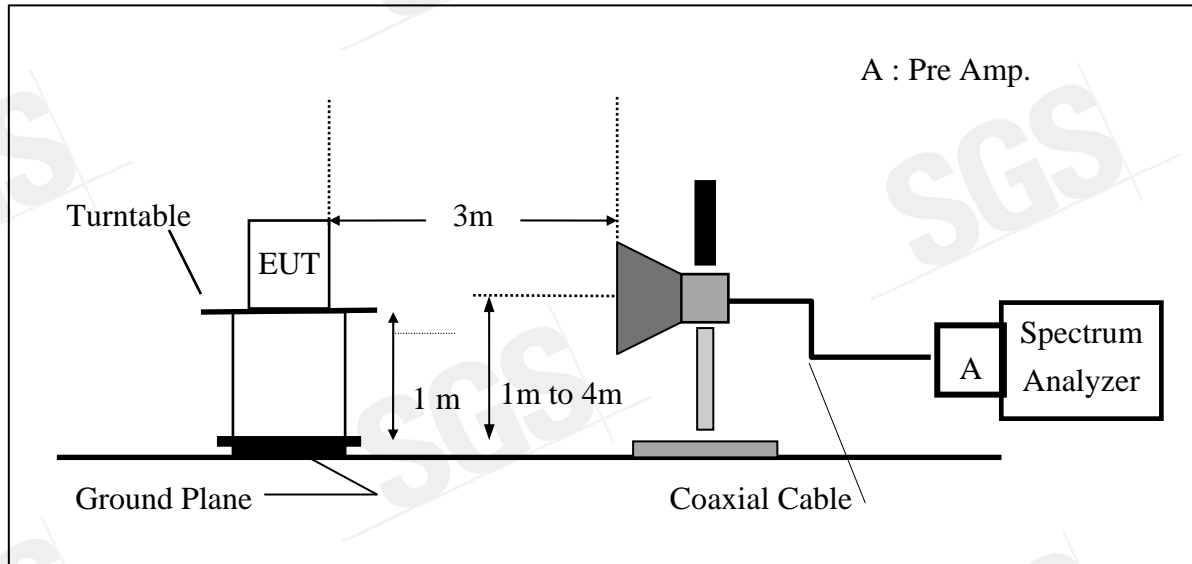
FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

EUT Setup (Block Diagram of Configuration)

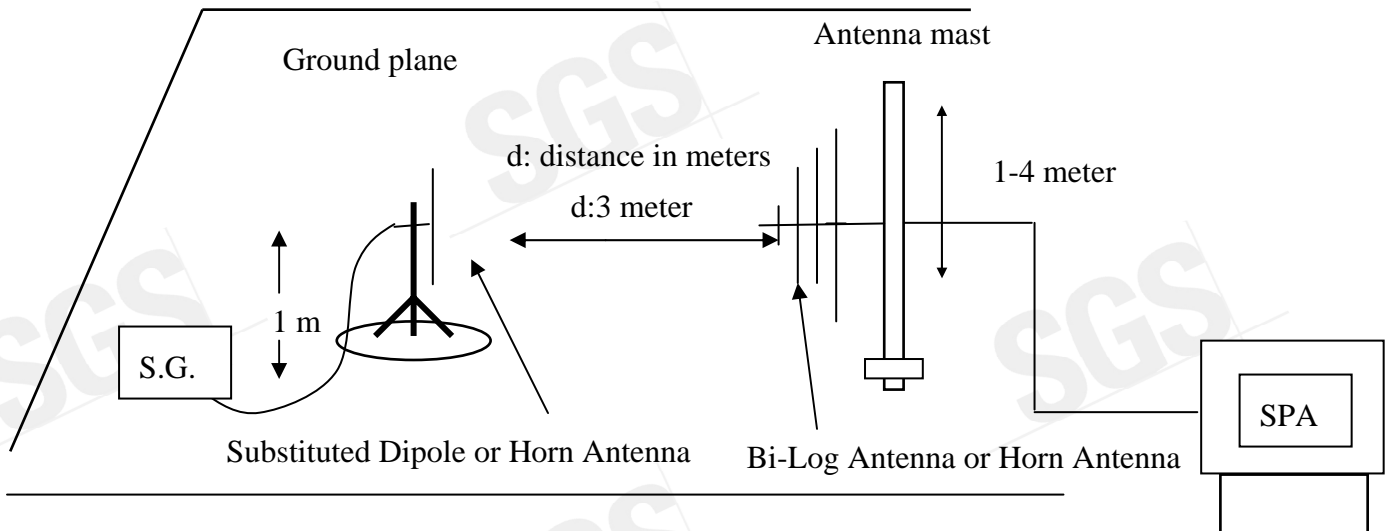
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. 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 positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|---------------------|--------------|----------------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 08/27/2006 | 08/26/2007 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 3224 | 11/14/2006 | 11/13/2007 |
| Horn antenna | Schwarzbeck | BBHA 9120D | 309/320 | 08/16/2006 | 08/15/2007 |
| Pre-Amplifier | HP | 8447D | 2944A09469 | 07/19/2007 | 07/18/2008 |
| Pre-Amplifier | HP | 8494B | 3008A00578 | 02/26/2007 | 02/25/2008 |
| Signal Generator | R&S | SMR40 | 100210 | 02/09/2007 | 02/10/2008 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 10/09/2006 | 10/08/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 10/09/2006 | 10/08/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-0.5M | 0.5m | 10/09/2006 | 10/08/2007 |
| Site NSA | SGS | 966 chamber | N/A | 11/17/2006 | 11/16/2007 |
| Site NSA | SGS | 10m Open-Site | N/A | 10/02/2006 | 10/01/2007 |
| Attenuator | Mini-Circult | BW-S10W5 | N/A | 10/07/2006 | 10/06/2007 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 10/14/2006 | 10/13/2007 |
| Dipole Antenna | Schwarzbeck | VHAP | 908/909 | 06/10/2006 | 06/09/2008 |
| Dipole Antenna | Schwarzbeck | UHAP | 891/892 | 06/10/2006 | 06/09/2008 |
| Horn antenna | Schwarzbeck | BBHA 9120D | N/A | 08/16/2006 | 08/15/2007 |

Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Jul. 09, 2007 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 198.78 | 50.61 | V | -51.06 | -7.84 | 1.71 | -60.61 | -13.00 | -47.61 |
| 824.00 | 71.45 | V | -14.94 | -7.87 | 3.62 | -26.44 | -13.00 | -13.44 |
| 1648.40 | --- | V | | 9.29 | 5.23 | | -13.00 | |
| 2472.60 | 43.82 | V | -57.19 | 10.08 | 6.53 | -53.64 | -13.00 | -40.64 |
| 3296.80 | --- | V | | 12.17 | 7.71 | | -13.00 | |
| 4121.00 | --- | V | | 12.61 | 8.86 | | -13.00 | |
| 4945.20 | --- | V | | 12.65 | 9.74 | | -13.00 | |
| 5769.40 | --- | V | | 13.55 | 10.54 | | -13.00 | |
| 6593.60 | --- | V | | 12.05 | 11.30 | | -13.00 | |
| 7417.80 | --- | V | | 11.49 | 12.10 | | -13.00 | |
| 8242.00 | --- | V | | 11.48 | 12.71 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Jul. 09, 2007 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 208.48 | 45.49 | H | -55.75 | -7.85 | 1.76 | -65.35 | -13.00 | -52.35 |
| 824.00 | 84.12 | H | -2.15 | -7.87 | 3.62 | -13.65 | -13.00 | -0.65 |
| 1648.40 | 41.48 | H | -62.92 | 9.29 | 5.23 | -58.86 | -13.00 | -45.86 |
| 2472.60 | 44.56 | H | -56.35 | 10.08 | 6.53 | -52.80 | -13.00 | -39.80 |
| 3296.80 | --- | H | | 12.17 | 7.71 | | -13.00 | |
| 4121.00 | --- | H | | 12.61 | 8.86 | | -13.00 | |
| 4945.20 | --- | H | | 12.65 | 9.74 | | -13.00 | |
| 5769.40 | --- | H | | 13.55 | 10.54 | | -13.00 | |
| 6593.60 | --- | H | | 12.05 | 11.30 | | -13.00 | |
| 7417.80 | --- | H | | 11.49 | 12.10 | | -13.00 | |
| 8242.00 | --- | H | | 11.48 | 12.71 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Jul. 09, 2007 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 77.53 | 48.29 | V | -63.13 | -2.12 | 1.21 | -66.46 | -13.00 | -53.46 |
| 206.54 | 48.26 | V | -53.27 | -7.85 | 1.75 | -62.87 | -13.00 | -49.87 |
| 1673.20 | --- | V | | 9.36 | 5.27 | | -13.00 | |
| 2509.80 | --- | V | | 10.09 | 6.58 | | -13.00 | |
| 3346.40 | --- | V | | 12.28 | 7.79 | | -13.00 | |
| 4183.00 | --- | V | | 12.62 | 8.93 | | -13.00 | |
| 5019.60 | --- | V | | 12.67 | 9.81 | | -13.00 | |
| 5856.20 | --- | V | | 13.68 | 10.62 | | -13.00 | |
| 6692.80 | --- | V | | 11.95 | 11.39 | | -13.00 | |
| 7529.40 | --- | V | | 11.45 | 12.20 | | -13.00 | |
| 8366.00 | --- | V | | 11.59 | 12.81 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.60 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Jul. 09, 2007
 Test By: Jazz
 Pol: Hor

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 101.78 | 44.53 | H | -58.28 | -7.76 | 1.37 | -67.41 | -13.00 | -54.41 |
| 206.54 | 45.05 | H | -56.28 | -7.85 | 1.75 | -65.88 | -13.00 | -52.88 |
| 1673.20 | 70.69 | H | -33.69 | 9.36 | 5.27 | -29.59 | -13.00 | -16.59 |
| 2509.80 | 51.73 | H | -48.97 | 10.09 | 6.58 | -45.47 | -13.00 | -32.47 |
| 3346.40 | --- | H | | 12.28 | 7.79 | | -13.00 | |
| 4183.00 | --- | H | | 12.62 | 8.93 | | -13.00 | |
| 5019.60 | --- | H | | 12.67 | 9.81 | | -13.00 | |
| 5856.20 | --- | H | | 13.68 | 10.62 | | -13.00 | |
| 6692.80 | --- | H | | 11.95 | 11.39 | | -13.00 | |
| 7529.40 | --- | H | | 11.45 | 12.20 | | -13.00 | |
| 8366.00 | --- | H | | 11.59 | 12.81 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Jul. 09, 2007 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 198.78 | 49.72 | V | -51.95 | -7.84 | 1.71 | -61.50 | -13.00 | -48.50 |
| 849.02 | 74.54 | V | -11.58 | -7.88 | 3.68 | -23.14 | -13.00 | -10.14 |
| 1697.60 | --- | V | | 9.44 | 5.31 | | -13.00 | |
| 2546.40 | --- | V | | 10.20 | 6.63 | | -13.00 | |
| 3395.20 | --- | V | | 12.38 | 7.87 | | -13.00 | |
| 4244.00 | --- | V | | 12.63 | 9.00 | | -13.00 | |
| 5092.80 | --- | V | | 12.74 | 9.88 | | -13.00 | |
| 5941.60 | --- | V | | 13.81 | 10.70 | | -13.00 | |
| 6790.40 | --- | V | | 11.86 | 11.48 | | -13.00 | |
| 7639.20 | --- | V | | 11.40 | 12.27 | | -13.00 | |
| 8488.00 | --- | V | | 11.70 | 12.91 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Jul. 09, 2007 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 208.48 | 46.06 | H | -55.18 | -7.85 | 1.76 | -64.78 | -13.00 | -51.78 |
| 849.02 | 83.16 | H | -3.03 | -7.88 | 3.68 | -14.59 | -13.00 | -1.59 |
| 1697.60 | 44.14 | H | -60.21 | 9.44 | 5.31 | -56.08 | -13.00 | -43.08 |
| 2546.40 | --- | H | | 10.20 | 6.63 | | -13.00 | |
| 3395.20 | --- | H | | 12.38 | 7.87 | | -13.00 | |
| 4244.00 | --- | H | | 12.63 | 9.00 | | -13.00 | |
| 5092.80 | --- | H | | 12.74 | 9.88 | | -13.00 | |
| 5941.60 | --- | H | | 13.81 | 10.70 | | -13.00 | |
| 6790.40 | --- | H | | 11.86 | 11.48 | | -13.00 | |
| 7639.20 | --- | H | | 11.40 | 12.27 | | -13.00 | |
| 8488.00 | --- | H | | 11.70 | 12.91 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|-----------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date | Jul. 09, 2007 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 208.48 | 49.62 | V | -51.84 | -7.85 | 1.76 | -61.45 | -13.00 | -48.45 |
| 1850.00 | 73.06 | V | -31.33 | 9.90 | 5.56 | -26.99 | -13.00 | -13.99 |
| 3700.4 | 48.42 | V | -49.51 | 12.61 | 8.31 | -45.21 | -13.00 | -32.21 |
| 5550.60 | --- | V | | 13.23 | 10.33 | | -13.00 | |
| 7400.80 | --- | V | | 11.50 | 12.08 | | -13.00 | |
| 9251.00 | --- | V | | 11.92 | 13.50 | | -13.00 | |
| 11101.20 | --- | V | | 11.66 | 15.11 | | -13.00 | |
| 12951.40 | --- | V | | 13.63 | 16.60 | | -13.00 | |
| 14801.60 | --- | V | | 12.76 | 17.95 | | -13.00 | |
| 16651.80 | --- | V | | 15.92 | 19.14 | | -13.00 | |
| 18502.00 | --- | V | | 18.75 | 10.40 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|-----------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date | Jul. 09, 2007 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 101.78 | 49.00 | H | -53.81 | -7.76 | 1.37 | -62.94 | -13.00 | -49.94 |
| 1850.00 | 63.17 | H | -41.01 | 9.90 | 5.56 | -36.67 | -13.00 | -23.67 |
| 3700.40 | 55.40 | H | -42.64 | 12.61 | 8.31 | -38.34 | -13.00 | -25.34 |
| 5550.60 | --- | H | | 13.23 | 10.33 | | -13.00 | |
| 7400.80 | --- | H | | 11.50 | 12.08 | | -13.00 | |
| 9251.00 | --- | H | | 11.92 | 13.50 | | -13.00 | |
| 11101.20 | --- | H | | 11.66 | 15.11 | | -13.00 | |
| 12951.40 | --- | H | | 13.63 | 16.60 | | -13.00 | |
| 14801.60 | --- | H | | 12.76 | 17.95 | | -13.00 | |
| 16651.80 | --- | H | | 15.92 | 19.14 | | -13.00 | |
| 18502.00 | --- | H | | 18.75 | 10.40 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + \text{Antenna Gain} (dB/dBi) - \text{Cable loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|-----------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date | Jul. 09, 2007 |
| Fundamental Frequency | : 1880MHz | Test By | Jazz |
| Temperature | : 25°C | Pol | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 198.78 | 50.34 | V | -51.33 | -7.84 | 1.71 | -60.88 | -13.00 | -47.88 |
| 3760.00 | --- | V | | 12.60 | 8.39 | | -13.00 | |
| 5640.00 | --- | V | | 13.36 | 10.41 | | -13.00 | |
| 9400.00 | --- | V | | 11.93 | 13.61 | | -13.00 | |
| 11280.00 | --- | V | | 11.92 | 15.27 | | -13.00 | |
| 13160.00 | --- | V | | 13.33 | 16.71 | | -13.00 | |
| 15040.00 | --- | V | | 13.76 | 18.15 | | -13.00 | |
| 16920.00 | --- | V | | 15.27 | 19.32 | | -13.00 | |
| 18800.00 | --- | V | | 18.68 | 16.58 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|-----------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date | Jul. 09, 2007 |
| Fundamental Frequency | : 1880MHz | Test By | Jazz |
| Temperature | : 25°C | Pol | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 101.78 | 49.00 | H | -53.81 | -7.76 | 1.37 | -62.94 | -13.00 | -49.94 |
| 3760.00 | 51.73 | H | -46.04 | 12.60 | 8.39 | -41.83 | -13.00 | -28.83 |
| 5640.00 | --- | H | | 13.36 | 10.41 | | -13.00 | |
| 7520.00 | --- | H | | 11.45 | 12.19 | | -13.00 | |
| 9400.00 | --- | H | | 11.93 | 13.61 | | -13.00 | |
| 11280.00 | --- | H | | 11.92 | 15.27 | | -13.00 | |
| 13160.00 | --- | H | | 13.33 | 16.71 | | -13.00 | |
| 15040.00 | --- | H | | 13.76 | 18.15 | | -13.00 | |
| 16920.00 | --- | H | | 15.27 | 19.32 | | -13.00 | |
| 18800.00 | --- | H | | 18.68 | 16.58 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|---------------------|-----------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date | Jul. 09, 2007 |
| Fundamental Frequency | : 1909.8 MHz | Test By | Jazz |
| Temperature | : 25°C | Pol | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 198.78 | 49.29 | V | -52.38 | -7.84 | 1.71 | -61.93 | -13.00 | -48.93 |
| 1910.00 | 74.52 | V | -29.81 | 10.08 | 5.66 | -25.39 | -13.00 | -12.39 |
| 3805.00 | 42.32 | V | -55.14 | 12.60 | 8.45 | -50.98 | -13.00 | -37.98 |
| 5717.50 | --- | V | | 13.48 | 10.49 | | -13.00 | |
| 7963.20 | --- | V | | 11.27 | 12.49 | | -13.00 | |
| 9954.00 | --- | V | | 12.08 | 14.24 | | -13.00 | |
| 11944.80 | --- | V | | 13.08 | 15.87 | | -13.00 | |
| 13935.60 | --- | V | | 11.82 | 17.21 | | -13.00 | |
| 15926.40 | --- | V | | 17.08 | 18.70 | | -13.00 | |
| 17917.20 | --- | V | | 9.63 | 19.97 | | -13.00 | |
| 19908.00 | --- | V | | 18.88 | 21.24 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|---------------------|-----------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date | Jul. 09, 2007 |
| Fundamental Frequency | : 1909.8 MHz | Test By | Jazz |
| Temperature | : 25°C | Pol | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 208.48 | 46.29 | H | -54.95 | -7.85 | 1.76 | -64.55 | -13.00 | -51.55 |
| 1910.00 | 82.68 | H | -21.43 | 10.08 | 5.66 | -17.01 | -13.00 | -4.01 |
| 2148.00 | 42.76 | H | -60.28 | 10.26 | 6.03 | -56.05 | -13.00 | -43.05 |
| 3805.00 | 45.43 | H | -52.14 | 12.60 | 8.45 | -47.99 | -13.00 | -34.99 |
| 5972.40 | --- | H | | 13.86 | 10.73 | | -13.00 | |
| 7963.20 | --- | H | | 11.27 | 12.49 | | -13.00 | |
| 9954.00 | --- | H | | 12.08 | 14.24 | | -13.00 | |
| 11944.80 | --- | H | | 13.08 | 15.87 | | -13.00 | |
| 13935.60 | --- | H | | 11.82 | 17.21 | | -13.00 | |
| 15926.40 | --- | H | | 17.08 | 18.70 | | -13.00 | |
| 17917.20 | --- | H | | 9.63 | 19.97 | | -13.00 | |
| 17188.20 | --- | H | | 14.47 | 19.52 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

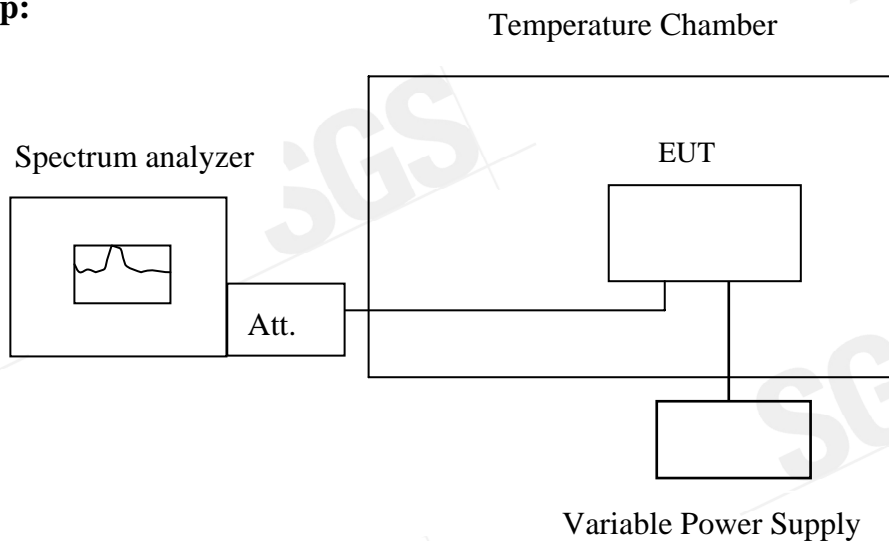
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

Test Set-up:



Note : Measurement setup for testing on Antenna connector

Measurement 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°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes re-recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | 7405A | US41160416 | 06/28/2007 | 06/27/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 06/28/2007 | 06/27/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 06/28/2007 | 06/27/2008 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 11/11/2006 | 11/12/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 10/07/2006 | 10/06/2007 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 10/07/2006 | 10/06/2007 |
| Splitter | Mini-Circuit | ZFSC-2-10G | N/A | 10/07/2006 | 10/06/2007 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2006 | 11/10/2007 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2007 | 01/05/2008 |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Measurement Result

| Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C | | | | |
|---|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 836.599984 | 1.00 | 2091 |
| 3.7 | -20 | 836.599983 | 2.00 | 2091 |
| 3.7 | -10 | 836.599976 | 9.00 | 2091 |
| 3.7 | 0 | 836.599990 | -5.00 | 2091 |
| 3.7 | 10 | 836.599975 | 10.00 | 2091 |
| 3.7 | 20 | 836.599985 | 0.00 | 2091 |
| 3.7 | 30 | 836.599992 | -7.00 | 2091 |
| 3.7 | 40 | 836.599981 | 4.00 | 2091 |
| 3.7 | 50 | 836.599977 | 8.00 | 2091 |

| Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 1879.999964 | -304.00 | 4700 |
| 3.7 | -20 | 1879.999950 | -290.00 | 4700 |
| 3.7 | -10 | 1879.999971 | -311.00 | 4700 |
| 3.7 | 0 | 1879.999965 | -305.00 | 4700 |
| 3.7 | 10 | 1879.999990 | -330.00 | 4700 |
| 3.7 | 20 | 1879.999660 | 0.00 | 4700 |
| 3.7 | 30 | 1879.999970 | -310.00 | 4700 |
| 3.7 | 40 | 1879.999980 | -320.00 | 4700 |
| 3.7 | 50 | 1879.999961 | -301.00 | 4700 |

Note: The battery is rated 3.7V dc.

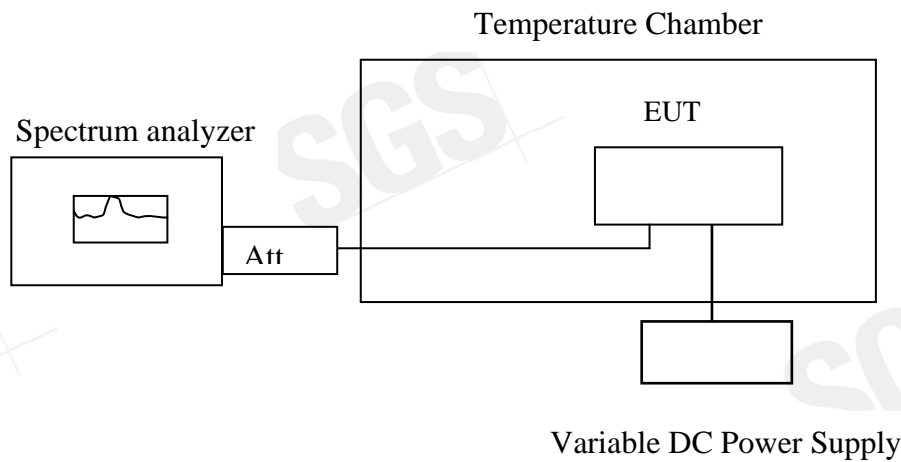
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

Test Set-up:



Note: Measurement setup for testing on Antenna connector

Measurement Procedure

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low 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.

Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | 7405A | US41160416 | 06/28/2007 | 06/27/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 06/28/2007 | 06/27/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 06/28/2007 | 06/27/2008 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 11/11/2006 | 11/12/2007 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 10/07/2006 | 10/06/2007 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 10/07/2006 | 10/06/2007 |
| Splitter | Mini-Circuit | ZFSC-2-10G | N/A | 10/07/2006 | 10/06/2007 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2006 | 11/10/2007 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2007 | 01/05/2008 |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Measurement Result

| Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C | | | | |
|---|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.70 | 25.00 | 836.599975 | 0.00 | 2091.00 |
| 3.25 | 25.00 | 836.599972 | 3.00 | 2091.00 |
| 3.15 | 25.00 | 836.599974 | 1.00 | 2091.00 |
| 2.90 (End Point) | 25.00 | 836.599980 | -5.00 | 2091.00 |

| Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.70 | 25 | 1879.999979 | 0.00 | 4700 |
| 3.25 | 25 | 1879.999980 | -1.00 | 4700 |
| 3.15 | 25 | 1879.999960 | 19.00 | 4700 |
| 2.90 (Endpoint) | 25 | 1879.999952 | 27.00 | 4700 |

Note: The battery is rated 3.7V dc.

12. AC POWER LINE CONDUCTED EMISSION TEST

Standard Applicable

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

| 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.

EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

Measurement Equipment Used:

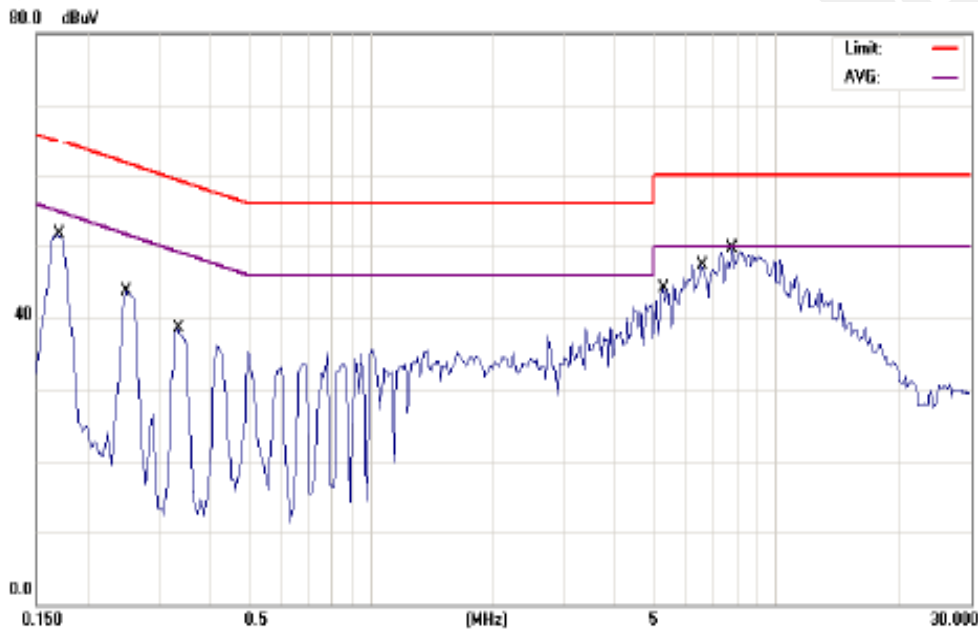
| Conducted Emission Test Site | | | | | |
|------------------------------|------------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMC Analyzer | HP | 8594EM | 3624A00203 | 09/02/2006 | 09/03/2007 |
| EMI Test Receiver | R&S | ESCS30 | 828985/004 | 06/09/2007 | 06/08/2008 |
| Transient Limiter | HP | 11947A | 3107A02062 | 09/02/2006 | 09/03/2007 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 12/31/2006 | 12/30/2007 |
| LISN | Rolf-Heine | NNB-2/16Z | 99013 | 12/24/2006 | 12/23/2007 |
| LISN | FCC | 50/250-25-2-01 | 04034 | 01/24/2007 | 01/23/2008 |
| Coaxial Cables | N/A | No. 3, 4 | N/A | 12/24/2006 | 12/23/2007 |

Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

AC POWER LINE CONDUCTED EMISSION TEST DATA

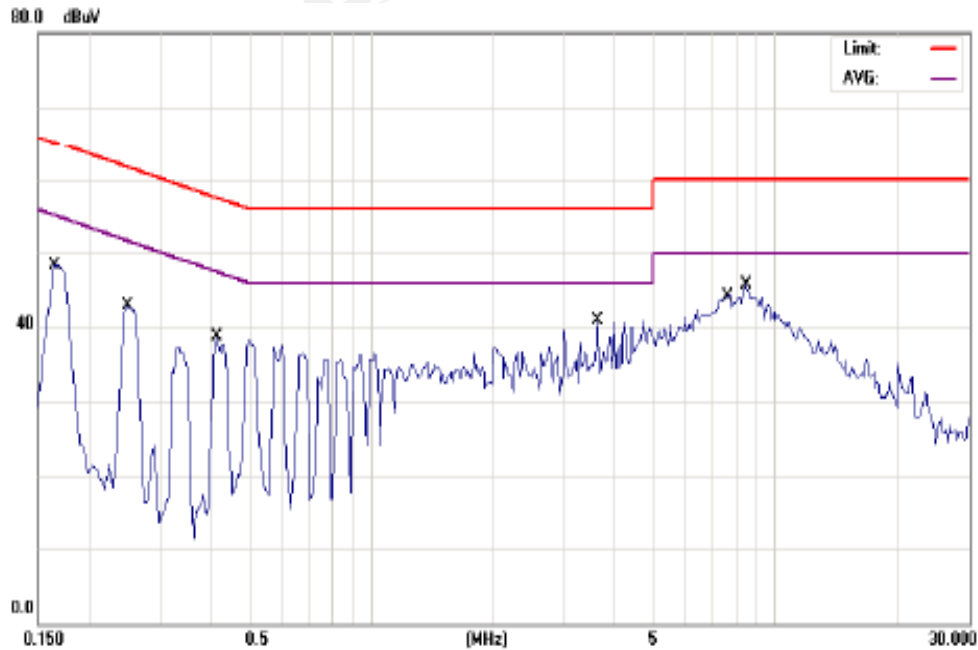
| | | | | | |
|-----------------|--------------|-----------|-----|------------|---------------|
| Operation Mode: | GSM 850 LINK | | | Test Date: | Jul. 09, 2007 |
| Temperature: | 25 °C | Humidity: | 62% | Test By: | Jazz |
| Adaptor: | T5001448AGAA | | | | |



| | | | | | |
|--------|--------------------------------|-----------|--------------|---------------|-------|
| Site | SGS CONDUCTED #1 | Phase: | L1 | Temperature: | 25 °C |
| Limit: | CISPR22 Class B Conduction(QP) | Power: | AC 120V/60Hz | Humidity: | 62 % |
| EUT: | GSM850/1900 mobile phone | Distance: | | Air Pressure: | hpa |
| M/N: | u7ca | | | | |
| Note: | GSM 850 link | | | | |

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1700 | 50.93 | 0.72 | 51.65 | 64.96 | -13.31 | QP | |
| 2 | | 0.2500 | 43.72 | 0.02 | 43.74 | 61.76 | -18.02 | QP | |
| 3 | | 0.3350 | 38.45 | 0.02 | 38.47 | 59.33 | -20.86 | QP | |
| 4 | | 5.2600 | 43.97 | 0.11 | 44.08 | 60.00 | -15.92 | QP | |
| 5 | * | 6.5800 | 47.17 | 0.15 | 47.32 | 60.00 | -12.68 | QP | |
| 6 | | 7.7800 | 40.50 | 0.18 | 40.68 | 60.00 | -19.32 | QP | |
| 7 | | 7.7800 | 30.10 | 0.18 | 30.28 | 60.00 | -19.72 | AVG | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。



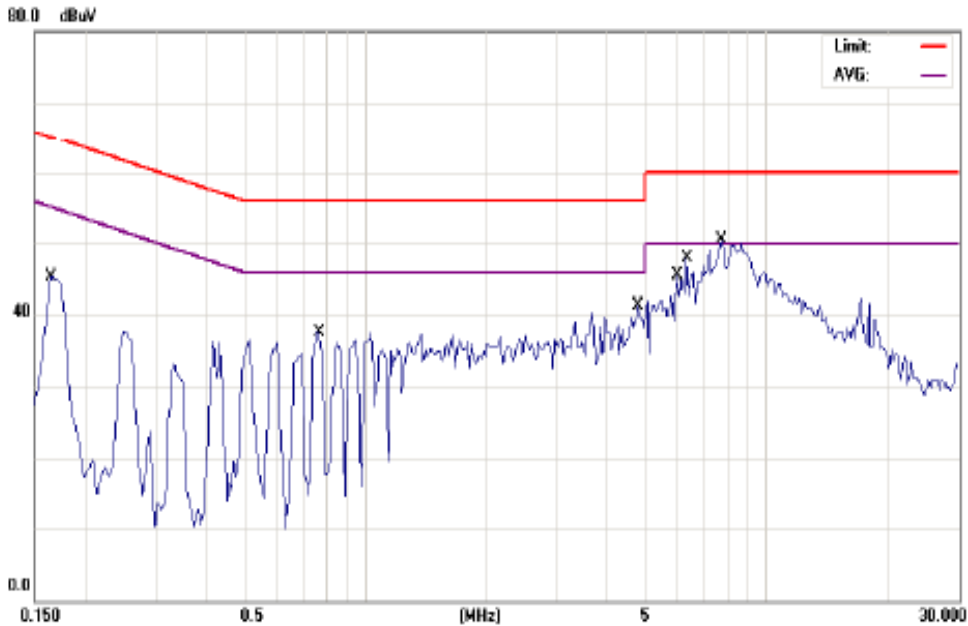
Site SGS CONDUCTED #1 Phase: **N** Temperature: 25 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 EUT: GSM850/1900 mobile phone Distance: Air Pressure: hpa
 M/N: u7ca
 Note: GSM 850 link

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1650 | 48.31 | 0.01 | 48.32 | 65.21 | -16.89 | QP | |
| 2 | | 0.2500 | 42.79 | 0.02 | 42.81 | 61.76 | -18.95 | QP | |
| 3 | | 0.4150 | 38.72 | 0.02 | 38.74 | 57.55 | -18.81 | QP | |
| 4 | | 3.8350 | 40.81 | 0.07 | 40.88 | 56.00 | -15.12 | QP | |
| 5 | | 7.5400 | 43.66 | 0.17 | 43.83 | 60.00 | -16.17 | QP | |
| 6 | * | 8.4600 | 45.48 | 0.20 | 45.68 | 60.00 | -14.32 | QP | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

AC POWER LINE CONDUCTED EMISSION TEST DATA

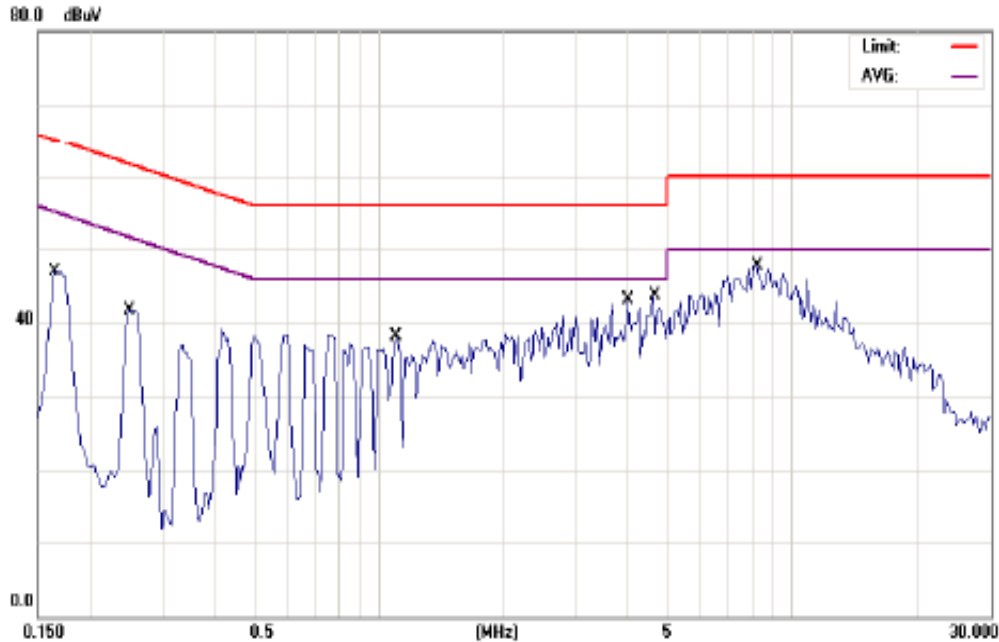
| | | | | | |
|-----------------|---------------|-----------|------------|---------------|------|
| Operation Mode: | GSM 1900 LINK | | Test Date: | Jul. 09, 2007 | |
| Temperature: | 25 °C | Humidity: | 62% | Test By: | Jazz |
| Adaptor: | T5001448AGAA | | | | |



| | | | | | |
|--------|--------------------------------|-----------|--------------|---------------|-------|
| Site | SGS CONDUCTED #1 | Phase: | L1 | Temperature: | 25 °C |
| Limit: | CISPR22 Class B Conduction(QP) | Power: | AC 120V/60Hz | Humidity: | 62 % |
| EUT: | GSM850/1900 mobile phone | Distance: | | Air Pressure: | hpa |
| M/N: | u7ca | | | | |
| Note: | GSM 1900 link | | | | |

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1650 | 44.47 | 0.83 | 45.30 | 65.21 | -19.91 | QP | |
| 2 | | 0.7700 | 37.51 | 0.01 | 37.52 | 56.00 | -18.48 | QP | |
| 3 | | 4.7750 | 41.24 | 0.10 | 41.34 | 56.00 | -14.66 | QP | |
| 4 | | 5.9600 | 42.94 | 0.13 | 43.07 | 60.00 | -16.93 | QP | |
| 5 | * | 6.3200 | 47.78 | 0.14 | 47.90 | 60.00 | -12.10 | QP | |
| 6 | | 7.7400 | 41.00 | 0.18 | 41.18 | 60.00 | -18.82 | QP | |
| 7 | | 7.7400 | 30.20 | 0.18 | 30.38 | 50.00 | -19.62 | AVG | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。



Site: SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: GSM850/1900 mobile phone
 M/N: u7ca
 Note: GSM 1900 link

Phase: N
 Power: AC 120V/60Hz
 Distance:

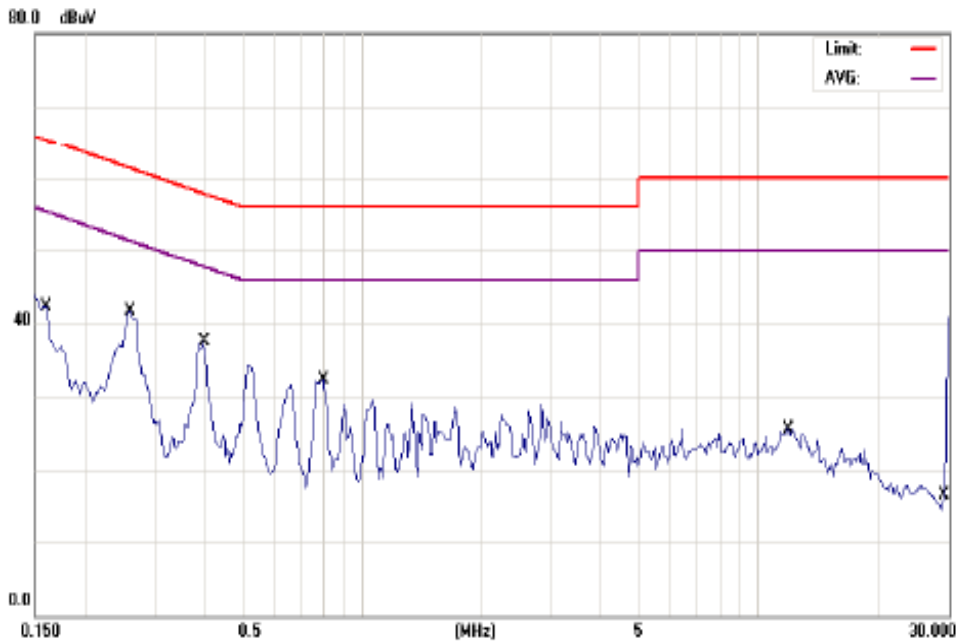
Temperature: 25 °C
 Humidity: 62 %
 Air Pressure: hpa

| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|--------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1650 | 46.88 | 0.01 | 46.87 | 65.21 | -18.34 | QP | |
| 2 | | 0.2500 | 41.74 | 0.02 | 41.76 | 61.76 | -20.00 | QP | |
| 3 | | 1.1000 | 38.02 | 0.01 | 38.03 | 56.00 | -17.97 | QP | |
| 4 | | 4.0100 | 42.94 | 0.07 | 43.01 | 56.00 | -12.99 | QP | |
| 5 | | 4.8250 | 43.67 | 0.09 | 43.76 | 56.00 | -12.24 | QP | |
| 6 | * | 8.2000 | 47.61 | 0.19 | 47.80 | 60.00 | -12.20 | QP | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

AC POWER LINE CONDUCTED EMISSION TEST DATA

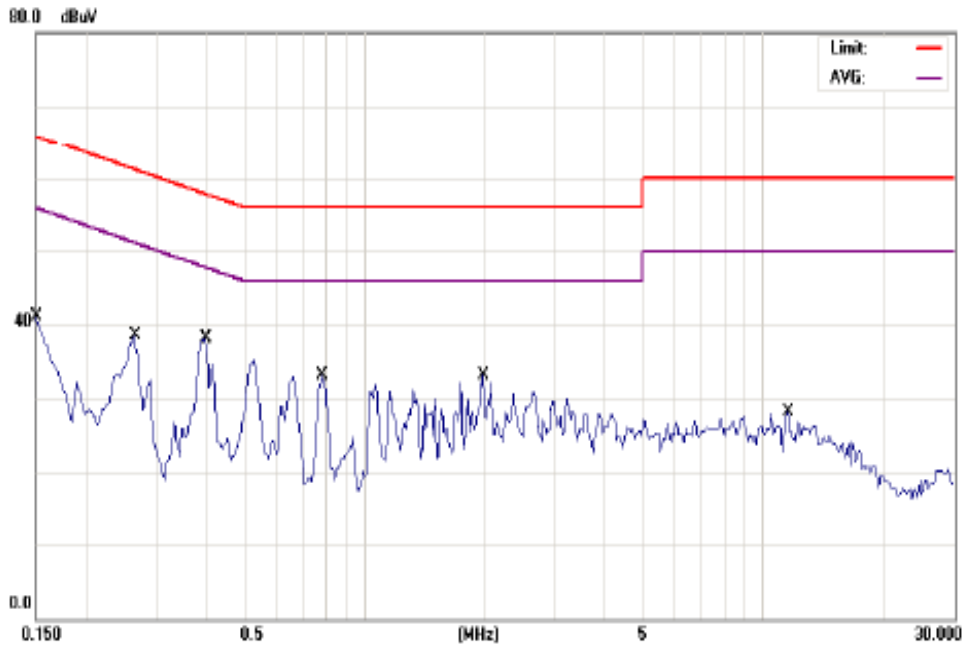
| | | | | | |
|-----------------|--------------|-----------|------------|---------------|------|
| Operation Mode: | GSM 850 LINK | | Test Date: | Jul. 09, 2007 | |
| Temperature: | 25 °C | Humidity: | 62% | Test By: | Jazz |
| Adaptor: | T5000436AGAA | | | | |



| | | | | | |
|--------|--------------------------------|-----------|--------------|---------------|-------|
| Site | SGS CONDUCTED #1 | Phase: | L1 | Temperature: | 25 °C |
| Limit: | CISPR22 Class B Conduction(QP) | Power: | AC 120V/60Hz | Humidity: | 62 % |
| EUT: | GSM850/1900 mobile phone | Distance: | | Air Pressure: | hpa |
| M/N: | u7ca | | | | |
| Note: | GSM 850 LINK(0500040) | | | | |

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1600 | 41.41 | 0.95 | 42.36 | 65.46 | -23.10 | QP | |
| 2 | | 0.2600 | 41.71 | 0.02 | 41.73 | 61.43 | -19.70 | QP | |
| 3 | | 0.4000 | 37.51 | 0.02 | 37.53 | 57.85 | -20.32 | QP | |
| 4 | | 0.8000 | 32.23 | 0.01 | 32.24 | 56.00 | -23.76 | QP | |
| 5 | | 11.9000 | 25.31 | 0.29 | 25.60 | 60.00 | -34.40 | QP | |
| 6 | * | 30.0000 | 40.81 | 0.45 | 41.06 | 60.00 | -18.94 | QP | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。



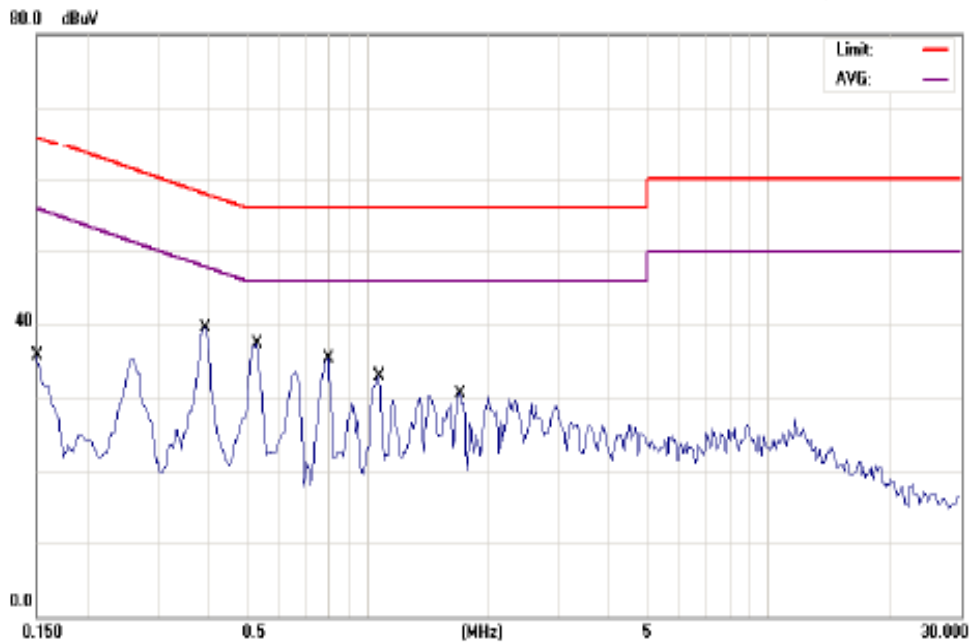
Site SGS CONDUCTED #1 Phase: **N** Temperature: 25 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 EUT: GSM850/1900 mobile phone Distance: Air Pressure: hpa
 MN: u7ca
 Note: GSM 850 LINK(0500040)

| No. Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|---------|---------|---------------|--------|-------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | 0.1500 | 41.06 | 0.00 | 41.06 | 66.00 | -24.94 | QP | |
| 2 | 0.2650 | 38.55 | 0.02 | 38.57 | 61.27 | -22.70 | QP | |
| 3 * | 0.4000 | 38.15 | 0.02 | 38.17 | 57.85 | -19.68 | QP | |
| 4 | 0.7850 | 33.16 | 0.01 | 33.17 | 56.00 | -22.83 | QP | |
| 5 | 1.9850 | 33.07 | 0.04 | 33.11 | 56.00 | -22.89 | QP | |
| 6 | 11.5400 | 27.89 | 0.25 | 28.14 | 60.00 | -31.86 | QP | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

AC POWER LINE CONDUCTED EMISSION TEST DATA

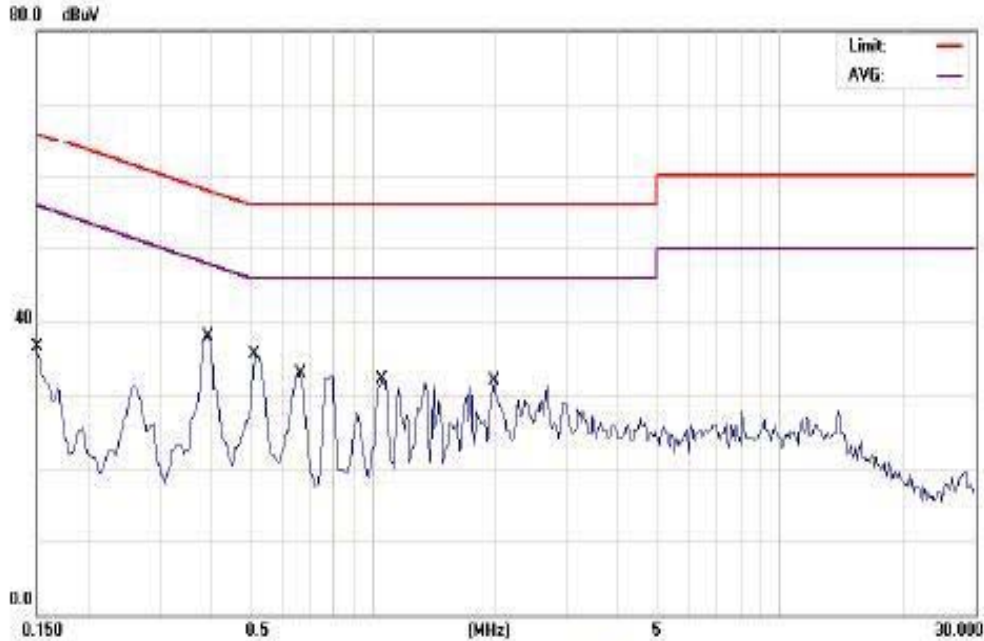
| | | | | | |
|-----------------|---------------|-----------|------------|---------------|------|
| Operation Mode: | GSM 1900 LINK | | Test Date: | Jul. 09, 2007 | |
| Temperature: | 25 °C | Humidity: | 62% | Test By: | Jazz |
| Adaptor: | T5000436AGAA | | | | |



| | | |
|---------------------------------------|---------------------|--------------------|
| Site SGS CONDUCTED #1 | Phase: L1 | Temperature: 25 °C |
| Limit: CISPR22 Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 62 % |
| EUT: GSM850/1900 mobile phone | Distance: | Air Pressure: hpa |
| M/N: u7ca | | |
| Note: GSM 1900 LINK(0500040) | | |

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1500 | 34.52 | 1.18 | 35.70 | 68.00 | -30.30 | QP | |
| 2 | * | 0.3950 | 39.45 | 0.02 | 39.47 | 57.98 | -18.49 | QP | |
| 3 | | 0.5300 | 37.32 | 0.02 | 37.34 | 58.00 | -18.68 | QP | |
| 4 | | 0.8000 | 35.32 | 0.01 | 35.33 | 58.00 | -20.67 | QP | |
| 5 | | 1.0700 | 32.82 | 0.01 | 32.83 | 58.00 | -23.17 | QP | |
| 6 | | 1.7000 | 30.58 | 0.03 | 30.59 | 58.00 | -25.41 | QP | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。



Site SGS CONDUCTED #1

Phase: N

Temperature: 25 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 62 %

EUT: GSM850/1900 mobile phone

Distance:

Air Pressure: hpa

M/N: u7ca

Note: GSM 1900 LINK(0500040)

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1500 | 35.39 | 1.18 | 36.57 | 66.00 | -29.43 | QP | |
| 2 | * | 0.3950 | 37.97 | 0.02 | 37.99 | 57.96 | -19.97 | QP | |
| 3 | | 0.5150 | 35.40 | 0.02 | 35.42 | 56.00 | -20.58 | QP | |
| 4 | | 0.8650 | 32.80 | 0.02 | 32.82 | 56.00 | -23.18 | QP | |
| 5 | | 1.0710 | 31.71 | 0.01 | 31.72 | 56.00 | -24.28 | QP | |
| 6 | | 2.0000 | 31.94 | 0.04 | 31.98 | 56.00 | -24.02 | QP | |

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

APPENDIX 1

PHOTOGRPHS OF SET UP

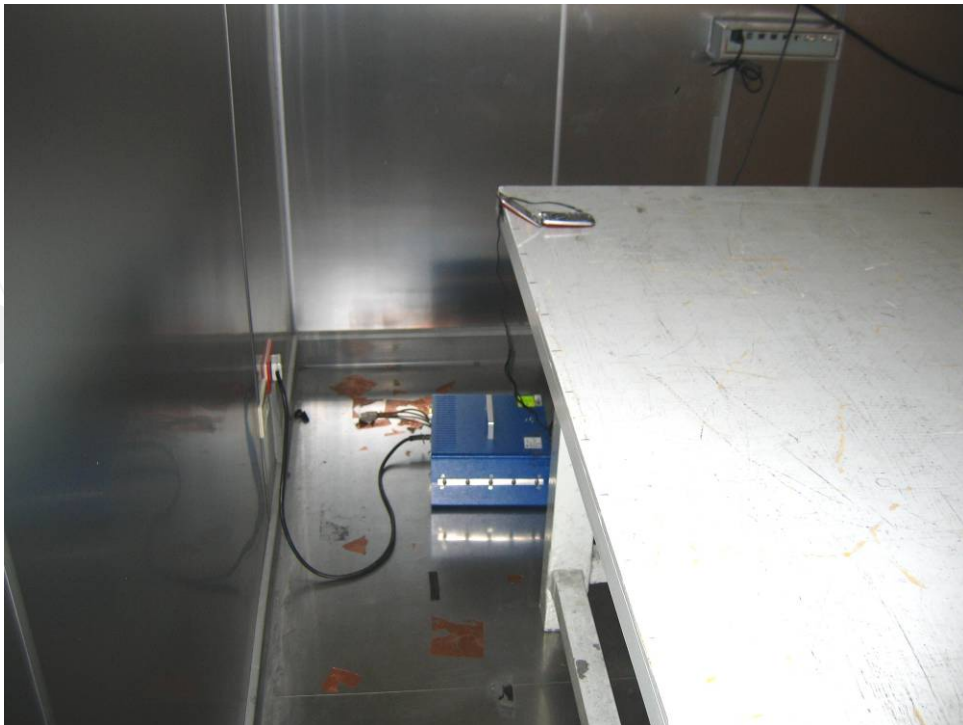
This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Radiated Emission Set up Photos



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Conducted Emission Set up Photo



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

APPENDIX 2

PHOTOGRPHS OF EUT

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

All View of EUT



Front View of EUT - 1



Back View of EUT



Site View of EUT - 1



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Site View of EUT – 2*Site View of EUT – 3**Site View of EUT – 4*

This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。



Open View Of EUT-1



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Open View Of EUT-2



Open View Of EUT-3

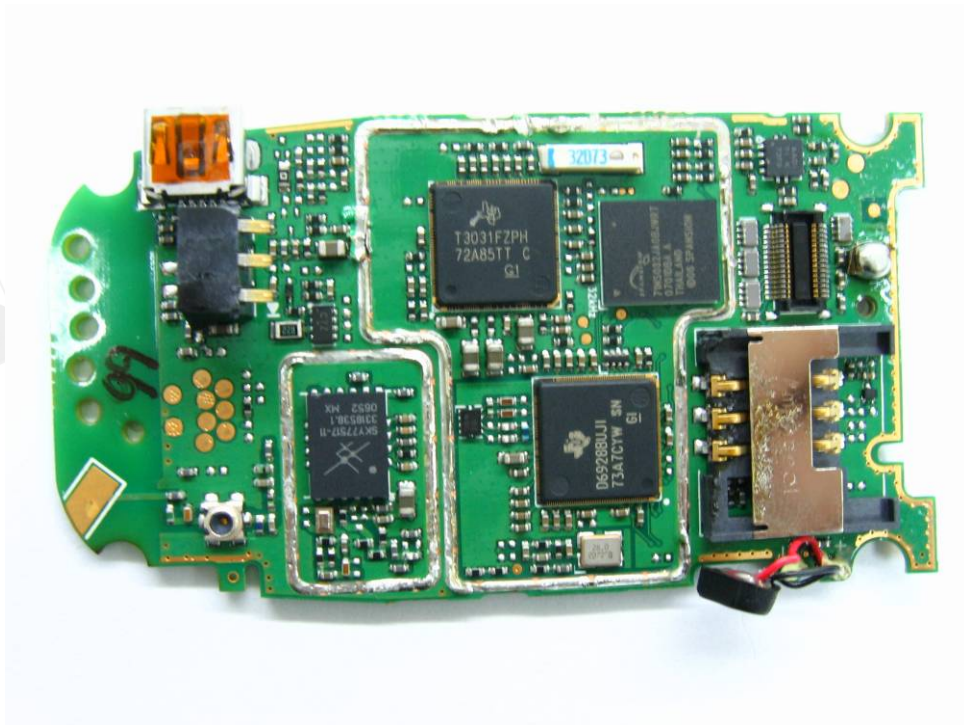


This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Internal of EUT – 1



Open View of EUT-2

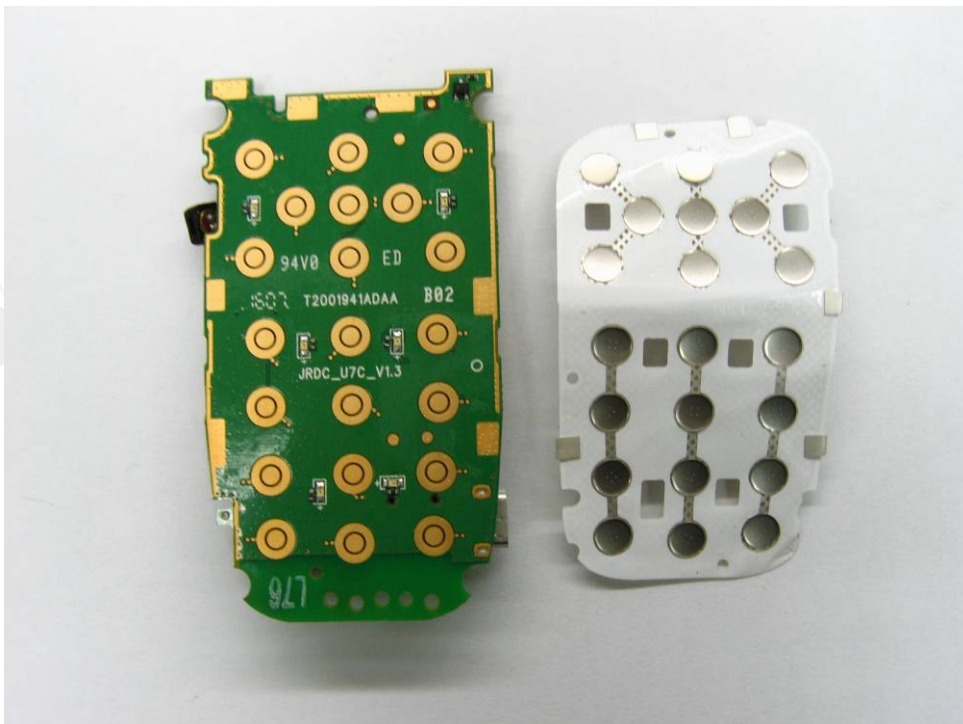


This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Internal of EUT – 3



Internal of EUT – 4



This document is issued by the Company subject to its General Conditions of Service which is available on request or accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放，相關服務條款備索，或可在 www.sgs.com 中查閱，本公司之義務、免責、管轄權皆明確規範其中。除非另有說明，此報告結果僅對檢驗之樣品負責。本報告未經本公司書面許可，不可部份複製。對本報告內容或外觀之任何未經授權之變更、偽造、竄改皆屬非法，違犯者將會被依法追訴。

Adapter - 1 (T5001448AGAA)



Adapter - 2 (T5000436AGAA)

