FCC TEST REPORT

for

47 CFR Part 24E

Equipment : Hand-held Micro-computer

Model No. : 7525C

FCC ID : GM37525CMCS

Filing Type : Certification

Applicant : Psion Teklogix Inc.
2100 Meadowvale Blvd, Mississauga, Ontario, L5N 7J9, Canada

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

The applicant has been cautioned as to the following:

15.21 Information to User.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) Special Accessories.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

Table of Contents

Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a) **Test Report**

b) Laboratory: Sporton International Inc.
No.52, Hwa-Ya 1st RD., Hwa Ya Technology Park, Kwei-Shan Hsiang, TaoYuan Hsien, Taiwan, R.O.C.

c) Report Number: F463047

d) Client: Psion Teklogix Inc.
2100 Meadowvale Blvd, Mississauga, Ontario, L5N 7J9, Canada

e) Identification: Model Name: 7525C
FCC ID : GM37525CMCS
Description: GSM 1900 Radio

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date: Aug. 28, 2004
EUT Received: Aug. 18, 2004

h, j, k): As indicated in individual tests.

i) Sampling method: No sampling procedure used.

l) Uncertainty: In accordance with Sporton internal quality manual.

m) Supervised by:

Hendry Yang

n) Results: The results presented in this report relate only to the item tested.

o) Reproduction: This report must not be reproduced, except in full, without written permission from this laboratory.

Accessories Used During Testing:

Type	**Model**
EUT	7525C
Earpiece	N/A

List of General Information Required for Certification

In Accordance with FCC Rules and Regulations,
Volume II, Part 2 and
24E, Confidentiality

Sub-Part 2.1033

(c)(1): **Name and Address of Applicant**:

Psion Teklogix Inc.
2100 Meadowvale Blvd, Mississauga, Ontario,
L5N 7J9, Canada

Manufacturer

Askey Computer Corp.
10F, No. 119, CHIENKANG RD., CHUNG-HO,
TAIPEI, TAIWAN, R.O.C.

(c)(2): **FCC ID**: GM37525CMCS

Model Number: 7525C

(c)(3): **Instruction Manual(s)**:

Please See Attached Exhibits

(c)(4): **Type of Emission**: 300 KGXW

(c)(5): **FREQUENCY RANGE, MHz**: 1850.2 to 1909.8

(c)(6): **Power Rating, Watts**: 1.091 (conducted)
0.563 (EIRP)
x Switchable Variable N/A

(c)(7): **Maximum Power Rating, Watts**: 1

Subpart 2.1033 (continued)
(c)(8): Voltages & Currents in All Elements in Final RF Stage, Including Final Transistor or Solid State Device:

Collector Current, A =	0.5
Collector Voltage, Vdc =	3.7
Supply Voltage, Vdc =	3.7

(c)(9): **Tune-Up Procedure**:

Please See Attached Exhibits

(c)(10): **Circuit Diagram/Circuit Description**:

Please See Attached Exhibits

(c)(11): **Label Information**:

Please See Attached Exhibits

(c)(12): **Photographs**:

Please See Attached Exhibits

(c)(13): **Digital Modulation Description**:

___ Attached Exhibits
_x_ N/A

(c)(14): **Test and Measurement Data**:

Follows

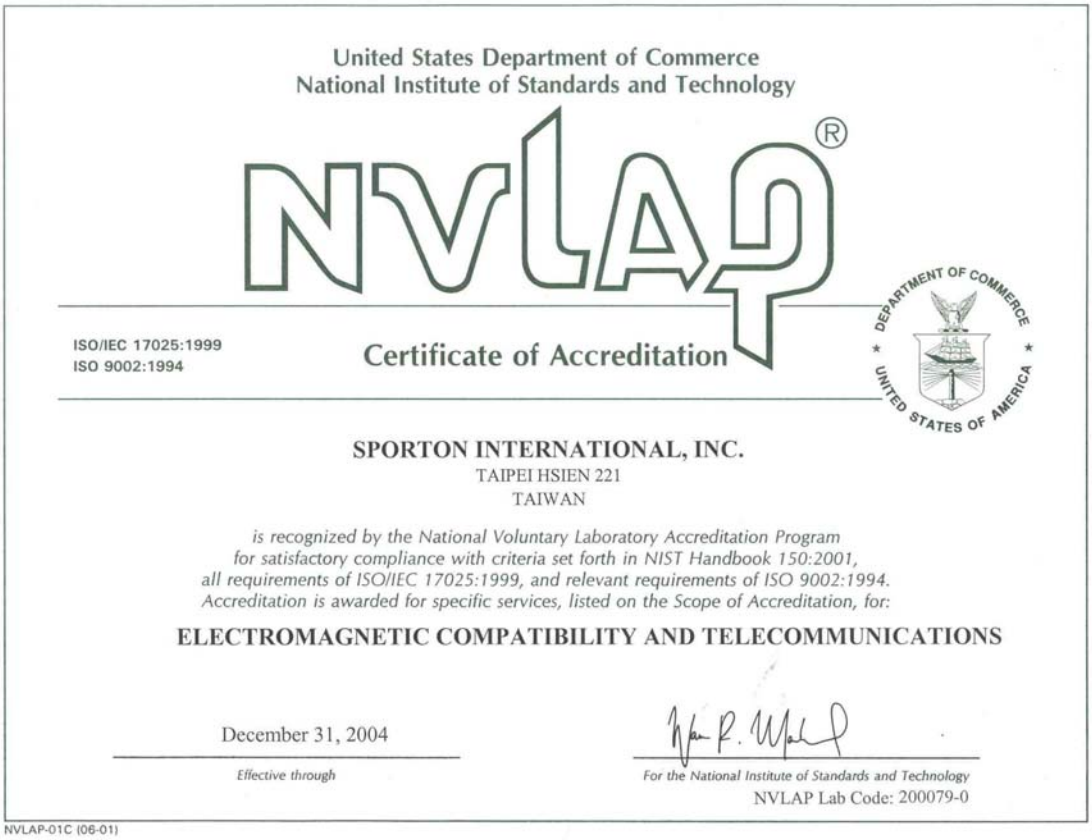
Testimonial and Statement of Certification

This is to certify that:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.
2. **That** the technical data supplied with the application was taken under my direction and supervision.
3. **That** the data was obtained on representative units, randomly selected.
4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

Certified by: Daniel Lee
Manager

Certificate of NVLAP Accreditation



United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

SPORTON INTERNATIONAL, INC.
TAIPEI HSIEN 221
TAIWAN

is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

December 31, 2004
Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 200079-0

NVLAP-01C (06-01)

Sub-part
2.1033(c)(14): **Test and Measurement Data**

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1079, 2.1051, 2.1053, 2.1055, 2.1057 and the following individual Parts:

22 – Public Mobile Services
22 Subpart H - Cellular Radiotelephone Service
x 24 – Personal Communications Services

General Information

Product Feature & Specification		
1.	Type of Modulation	GMSK
2.	Number of Channels	GSM 1900 : 512 to 810
3.	Frequency Band , MHz	Tx: 1850-1910 Rx: 1930-1990
4.	Channel Spacing	200 KHz
5.	Antenna Type	Fixed Internal
6.	Maximum Output Power to Antenna	30.38dBm
7.	HW Version	GSM board: ES4 GSM module: 0.3
8.	SW Version	Win CE code: E064O, Boot Code: E064O Keyboard controller code: 2.2, GSM software: 0.85
9.	DUT Stage	Identaical Prototype

Standard Test Conditions

and

Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with TIA603, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

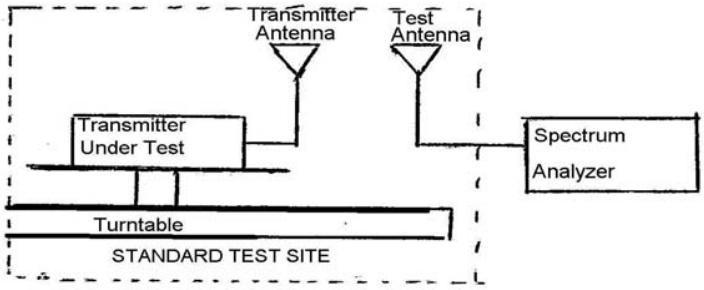
Measurement results, unless otherwise noted, are worst-case measurements.

Name of Test: EIRP Carrier Power (Radiated)

Specification: TIA/EIA 603A (Substitution Method)

Definition: The average radiated power of device is the equivalent power required, when delivered to a substitution antenna, to produce at a distant point the same average received power as produced by the licensed device.

Method Of Measurement:
a) Connect the equipment as illustrated. Place the transmitter to be tested on the turntable in the standard test site.



b) Raise and lower the test antenna from 1m to 4m and rotate turntable from 0° to 360°. Record the highest received signal showed in spectrum analyzer as Rt . Calculate electric field strength in receive antenna as Et.

Et = Rt + AF

AF (dB/m): Receive Antenna Factor

c) Replace the transmitter under test with a substitution antenna. The center of the antenna should be at the same location as the transmitter under test. Connect the antenna to a signal generator with a known output power level Ps. Raise and lower the test antenna like in step b) and record the highest received signal showed in spectrum analyzer as R_S. Calculate electric field strength in receive antenna as Es.

Es = Rs + AF

AF (dB/m): Receive Antenna Factor

d) Calculate radiated power as following:

EIRP = Ps + Et – Es + Gs

Ps (dBm): Input Power to Substitution Antenna
Gs (dBi) : Substitution Antenna Gain

Results Attached

Tested By: Tim Kao

Test Results For: EIRP Carrier Power (Radiated)

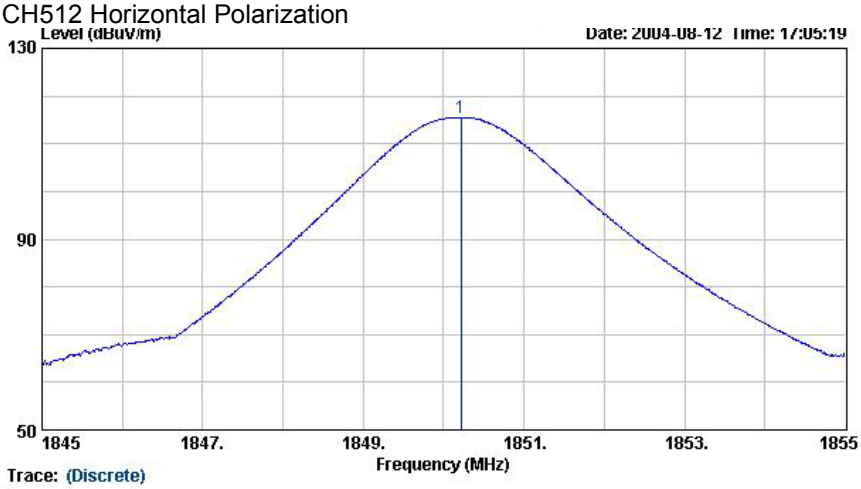
Conducted Power

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM 1900	512	1850.2 (Low)	29.8	0.951
	661	1880.0 (Mid)	30.1	1.026
	810	1909.8 (High)	30.4	1.091

EIRP

Freq MHz	Pol	Substitution Antenna Input Power (dBm)	Substitution Antenna Gain (dBi)	Et (dBuV/m)	Es (dBuV/m)	Et - Es (dB)	Radiated Power (dBm)	Radiated Power (Watts)
1850.22	H	-3.76	6.64	115.45	99.70	15.75	18.64	0.073
1880.02	H	-3.78	6.65	117.29	99.64	17.65	20.52	0.113
1909.78	H	-3.81	6.66	117.71	99.58	18.13	20.98	0.125
1850.19	V	-3.76	6.64	120.43	99.70	20.73	23.62	0.230
1879.87	V	-3.78	6.65	122.36	99.64	22.72	25.59	0.362
1909.79	V	-3.81	6.66	124.23	99.58	24.65	27.50	0.563

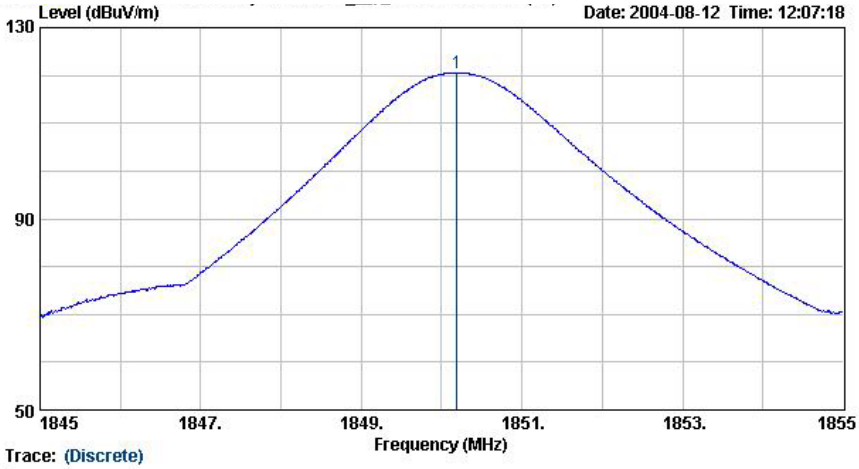
GSM 1900 CH512 Horizontal Polarization



Site : 03CH06
Condition : 3m HF-HORN AH-118 HORIZONTAL
EUT : PDA
Power : AC 120V / 60Hz
Model : PC321
Memo : PCS CH512 Link mode

	Freq	Over Limit	Level	Limit Line	Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBuV/m	dBuV/m	dB/m	dB	dB		cm	deg
1 @	1850.22	------	115.45	------	27.25	0.00	2.91	Peak	---	---

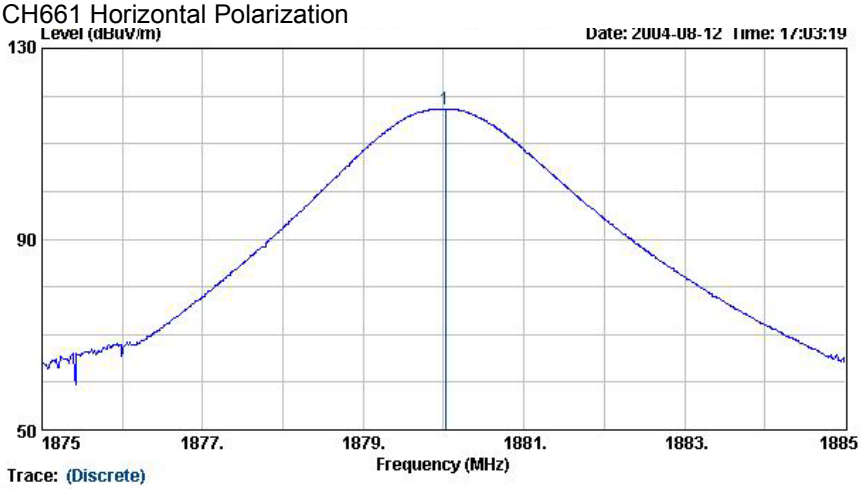
GSM 1900 CH512 Vertical Polarization



Site : 03CH06
Condition : 3m HF-HORN AH-118 VERTICAL
EUT : PDA
Power : AC 120V / 60Hz
Model : PC321
Memo : PCS CH512 Link mode

	Freq	Over Limit	Level	Limit Line	Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBuV/m	dBuV/m	dB/m	dB	dB		cm	deg
1 @	1850.19	------	120.43	------	27.25	0.00	2.91	Peak	---	---

GSM 1900 CH661 Horizontal Polarization

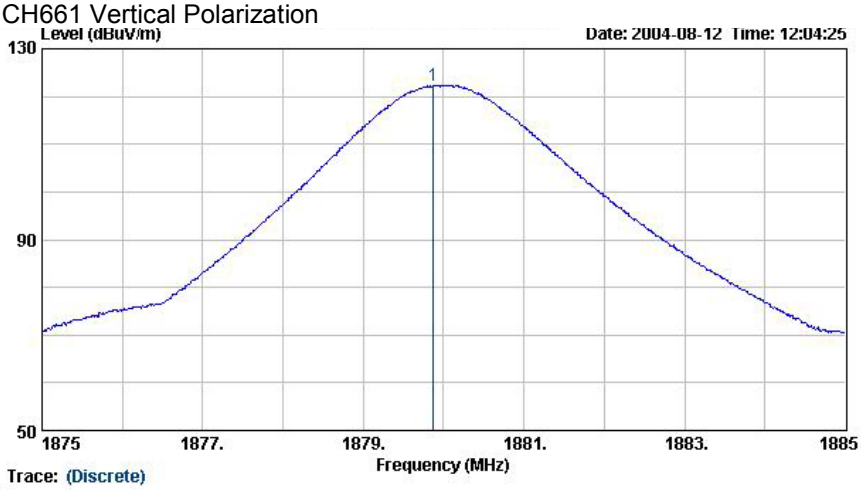


Trace: (Discrete)

Site : 03CH06
Condition : 3m HF-HORN AH-118 HORIZONTAL
EUT : PDA
Power : AC 120V / 60Hz
Model : PC321
Memo : PCS CH661 Link mode

	Freq	Over Limit	Level	Limit Line	Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBuV/m	dBuV/m	dB/m	dB	dB		cm	deg
1 @	1880.02	------	117.29	------	27.42	0.00	2.95	Peak	---	---

GSM 1900 CH661 Vertical Polarization

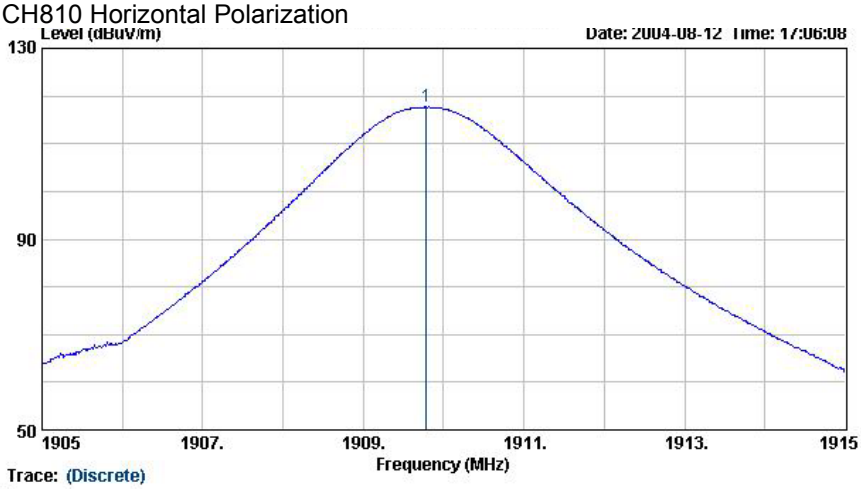


Trace: (Discrete)

Site : 03CH06
Condition : 3m HF-HORN AH-118 VERTICAL
EUT : PDA
Power : AC 120V / 60Hz
Model : PC321
Memo : PCS CH661 Link mode

	Freq	Over Limit	Level	Limit Line	Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBuV/m	dBuV/m	dB/m	dB	dB		cm	deg
1 @	1879.87	------	122.36	------	27.42	0.00	2.95	Peak	---	---

GSM 1900 CH810 Horizontal Polarization

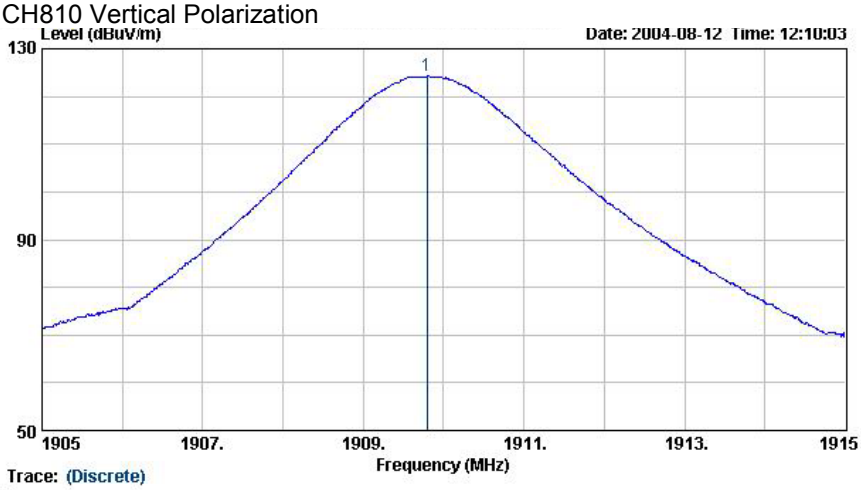


Trace: (Discrete)

Site : 03CH06
Condition : 3m HF-HORN AH-118 HORIZONTAL
EUT : PDA
Power : AC 120V / 60Hz
Model : PC321
Memo : PCS CH810 Link mode

	Freq	Over Limit	Level	Limit Line	Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBuV/m	dBuV/m	dB/m	dB	dB		cm	deg
1 @	1909.78	------	117.71	------	27.58	0.00	2.98	Peak	---	---

GSM 1900 CH810 Vertical Polarization



Trace: (Discrete)

Site : 03CH06
Condition : 3m HF-HORN AH-118 VERTICAL
EUT : PDA
Power : AC 120V / 60Hz
Model : PC321
Memo : PCS CH810 Link mode

	Freq	Over Limit	Level	Limit Line	Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBuV/m	dBuV/m	dB/m	dB	dB		cm	deg
1 @	1909.79	------	124.23	------	27.58	0.00	2.98	Peak	---	---

Name of Test: Transmitter Conducted Measurements

Specification: 47 CFR 2.1051: Unwanted (spurious) Emissions
2.1049(c), 24.238(b): Occupied Bandwidth
24: Emissions at Band Edges

Test Equipment: As per attached page

Measurement Procedure

1. The EUT and test equipment were set up as shown on the following page with the Spectrum Analyzer connected.

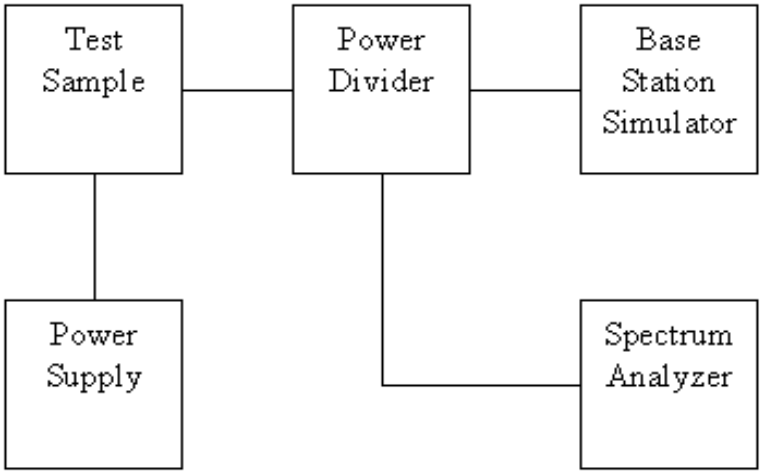
2. The low and high channels for all RF powers within the transmitting frequency band were measured.

3. Measurement Results: Attached

Tested By: Tim Kao

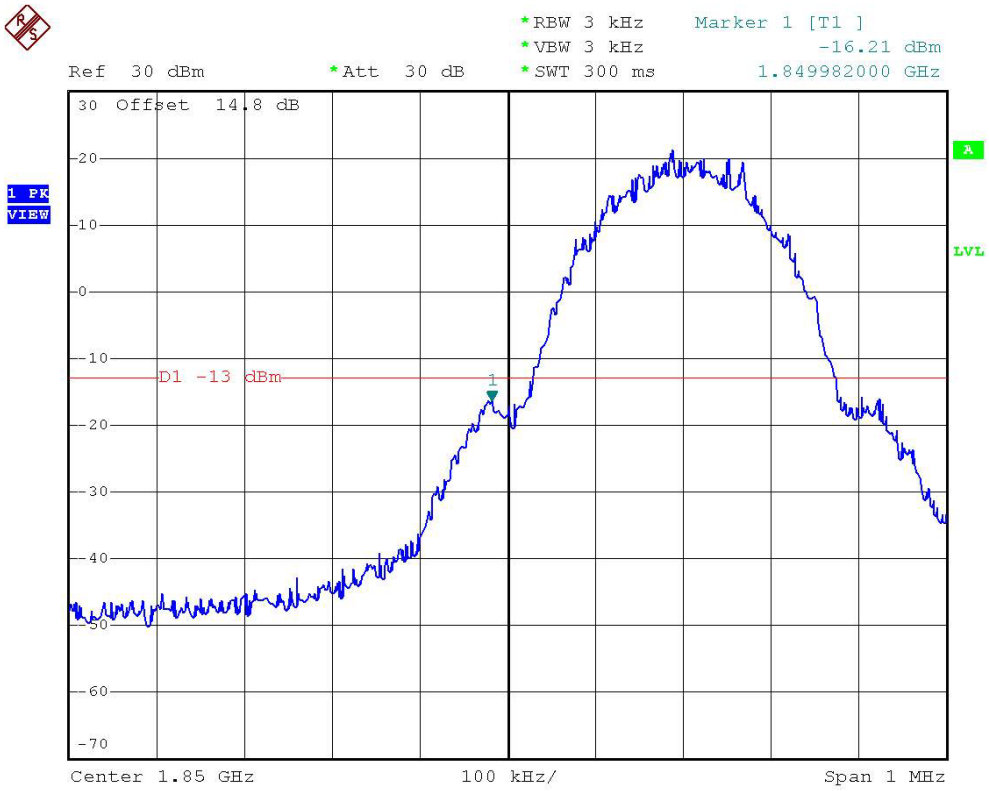
Transmitter Spurious Emission

Test A. Occupied Bandwidth (In-Band Spurious)
Test B. Out-of-Band Spurious



Asset	Model Name	S/N
Base Station Simulator	CMU200	102278
Base Station Simulator	E5515C	GB43460754
Spectrum Analyzer	FSP30	838858/014
AC/DC Power Source	HPA-500W	HPA0100024

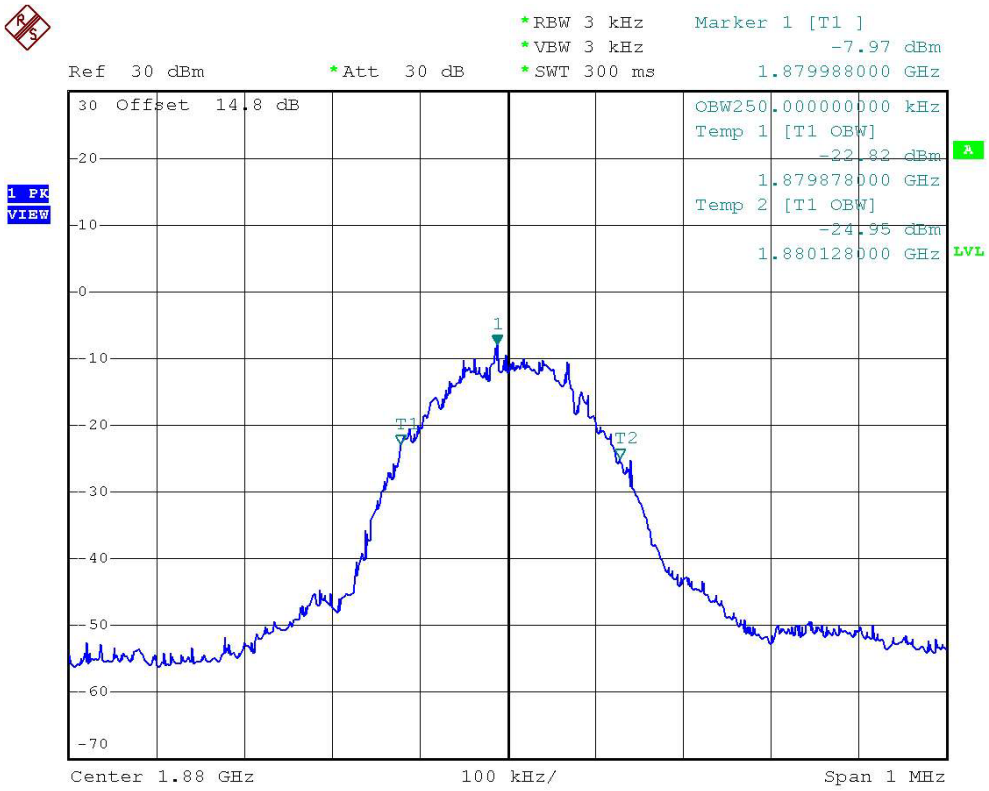
Name of Test: Emission Masks (Occupied Bandwidth)
State 2:High Power



Date: 13.AUG.2004 04:29:58

Power: HIGH
Modulation: GSM 1900
LOWER BAND EDGE

Name of Test: Emission Masks (Occupied Bandwidth)
State 1:Low Power



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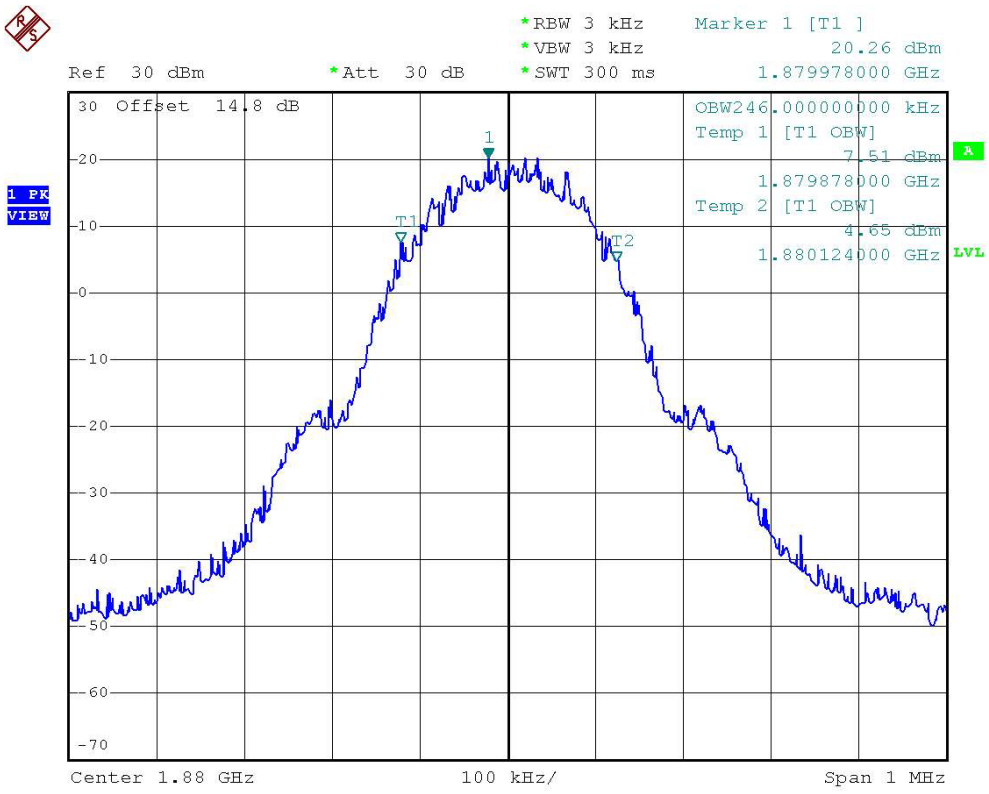
Power:	LOW
Modulation:	GSM 1900
	99% BANDWIDTH

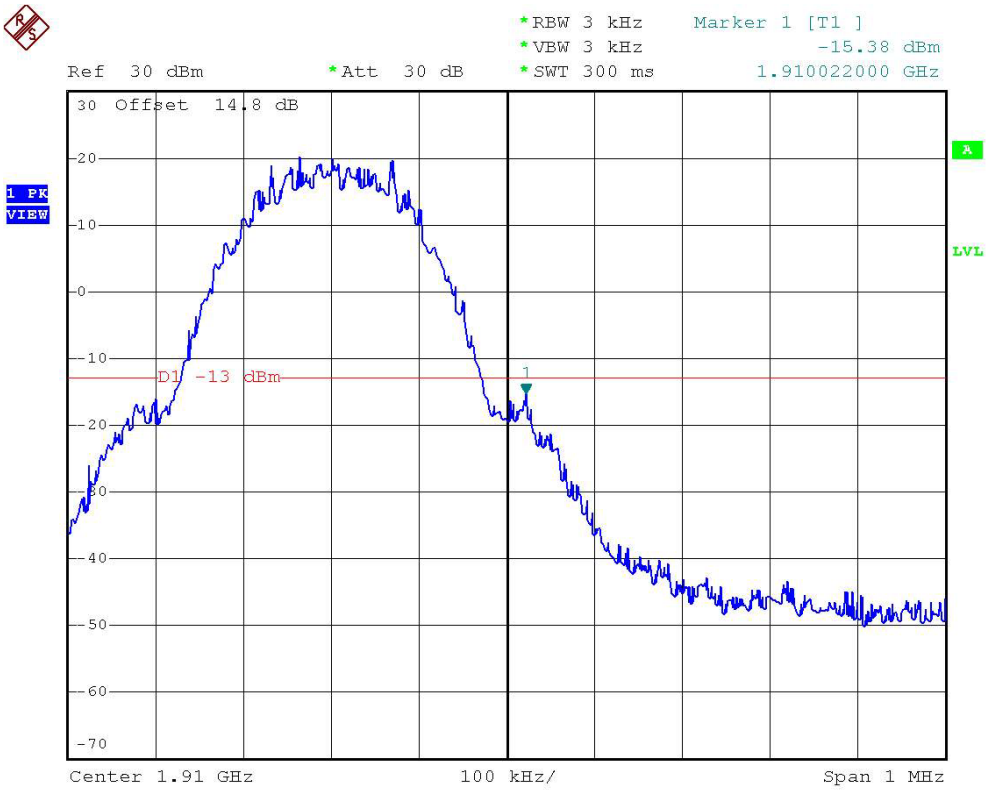
Name of Test: Emission Masks (Occupied Bandwidth)
State 2:High Power



Date: 13.AUG.2004 04:31:58

Power: HIGH
Modulation: GSM 1900
99% BANDWIDTH

Name of Test: Emission Masks (Occupied Bandwidth)
State 2:High Power



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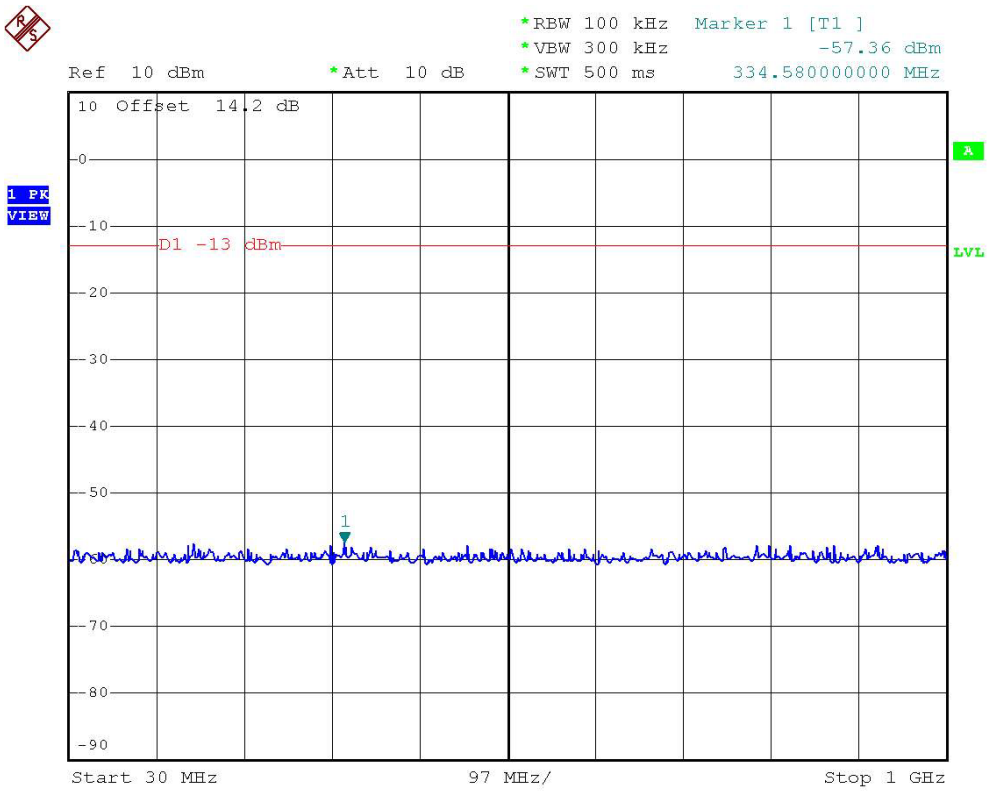
Power: HIGH
Modulation: GSM 1900
UPPER BAND EDGE

Name of Test: Conducted Spurious Emission
30M-1G



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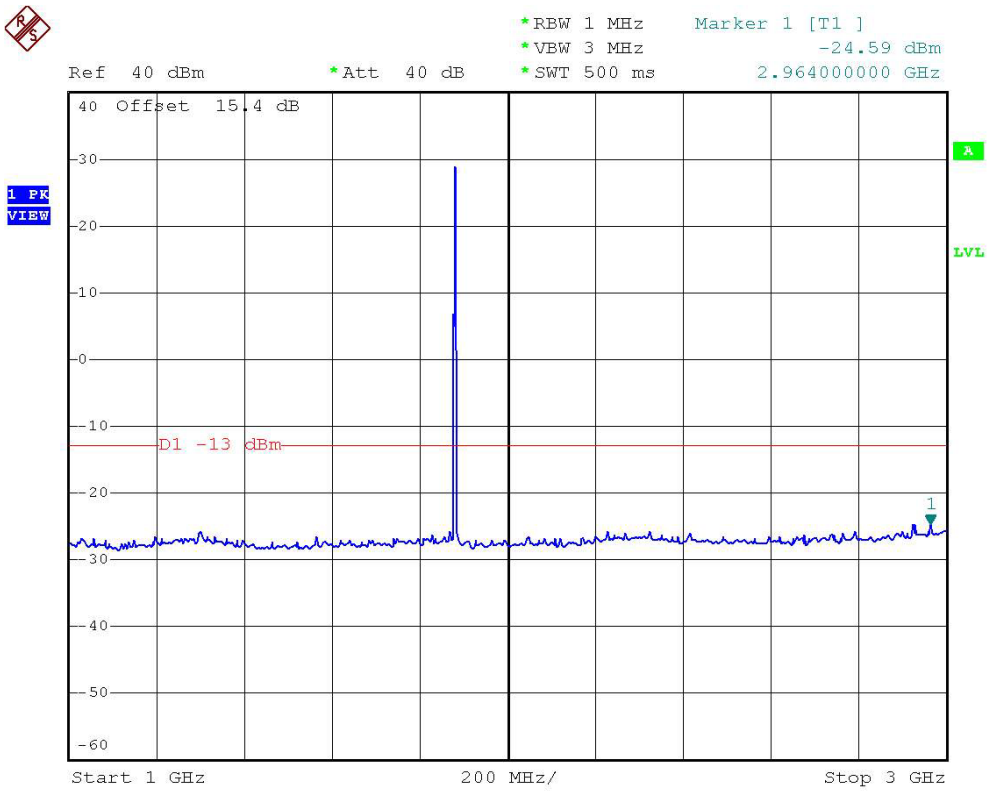
Name of Test: Conducted Spurious Emission
1G-3G



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