



FCC TEST REPORT

for

47 CFR Part 24E

Equipment : GSM Phone with GPRS and Bluetooth
Trade Name : Philips Consumer Electronics
Model No. : 768
FCC ID : HFS-CT7688
Tx Frequency Range : PCS 1900: 1850.2~1909.8MHz
Max. Radiated Power : PCS 1900: 0.51W
Emission Designator : 300 KGXW
Applicant : Quanta Computer Inc.
No. 188, Wen Hwa 2nd Road, Kuei Shan Hsiang,
Tao Yuan Shien, Taiwan

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- The data shown in this test report were carried out on Sep. 14, 2005 at **Sporton International Inc. LAB.**

Dr. Daniel Lee
EMC/SAR Manager

SPORTON International Inc.

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



Table of Contents

History of this test report.....	ii
1. General Information	1
1.1. Applicant.....	1
1.2. Manufacturer.....	1
1.3. Basic Description of Equipment under Test.....	1
1.2 Feature of Equipment under Test.....	2
1.3 Report Date	2
2 Test Configuration of Equipment under Test.....	3
2.1 Test Manner.....	3
2.2 Test Mode.....	3
2.3 Connection Diagram of Test System	3
2.4 Ancillary Equipment List.....	3
3. General Information of Test Site	4
3.1 Test Voltage.....	4
3.2 Test in Compliance with	4
3.3 Frequency Range Investigated.....	4
3.4 Test Distance.....	4
4. Test Data and Test Result.....	5
4.1 List of Measurements and Examinations.....	5
4.2 RF Output Power	6
4.3 ERP / EIRP Measurement.....	7
4.4 Occupied Bandwidth and Band Edge Measurement.....	9
4.5 Conducted Emission	14
4.6 Field Strength of Spurious Radiation	20
4.7 Frequency Stability (Temperature Variation)	24
4.8 Frequency Stability (Voltage Variation)	26
5 List of Measurement Equipments	27
6 Uncertainty Evaluation.....	28
Appendix A. Photographs of EUT External	
Appendix B. Photographs of EUT Internal	
Appendix C. Photographs of Setup	



History of this test report

Report Issue Date: Sep. 19, 2005

Original Report Issue Date	Description



1. General Information

1.1. Applicant

Quanta Computer Inc.

No. 188, Wen Hwa 2nd Road, Kuei Shan Hsiang, Tao Yuan Shien, Taiwan

1.2. Manufacturer

Quanta Computer Inc.

No. 188, Wen Hwa 2nd Road, Kuei Shan Hsiang, Tao Yuan Shien, Taiwan

1.3. Basic Description of Equipment under Test

Equipment	: GSM Phone with GPRS and Bluetooth
Trade Name	: Philips Consumer Electronics
Model No.	: 768
FCC ID	: HFS-CT7688
Power Supply Type	: Switching, DC 4.2V
AC Power Cord	: AC 120V, Weave-shielded, Wall-mount, 1.8 meter, 2 pin
Earpiece	: Minami, ME-826N-05
Adapter	: PHILIPS, P925BW05050AB65
Battery	: Sanyo, 1UF553450S-QC

**1.2 Feature of Equipment under Test**

DUT Type :	GSM Phone with GPRS and Bluetooth
Trade Name :	Philips Consumer Electronics
Model Name :	768
FCC ID :	HFS-CT7688
Tx Frequency :	1850.2~1909.8MHz
Rx Frequency :	1930~1989.8MHz
Antenna Type :	Fixed Internal
Maximum Output Power to Antenna :	28.87 dBm
Maximum EIRP :	0.51 W (27.04 dBm)
HW Version :	B2B
SW Version :	050711n-08.00 HPV.POP-0.15D TPWM
Power Rating (DC/AC Voltage) :	4.2V / 150mA
Digital Modulation Emission :	GMSK
Type of Emission :	300 KGXW
DUT Stage :	Production Unit

1.3 Report Date

EUT Received : Aug. 26, 2005

Report Date : Sep. 19, 2005

2 Test Configuration of Equipment under Test

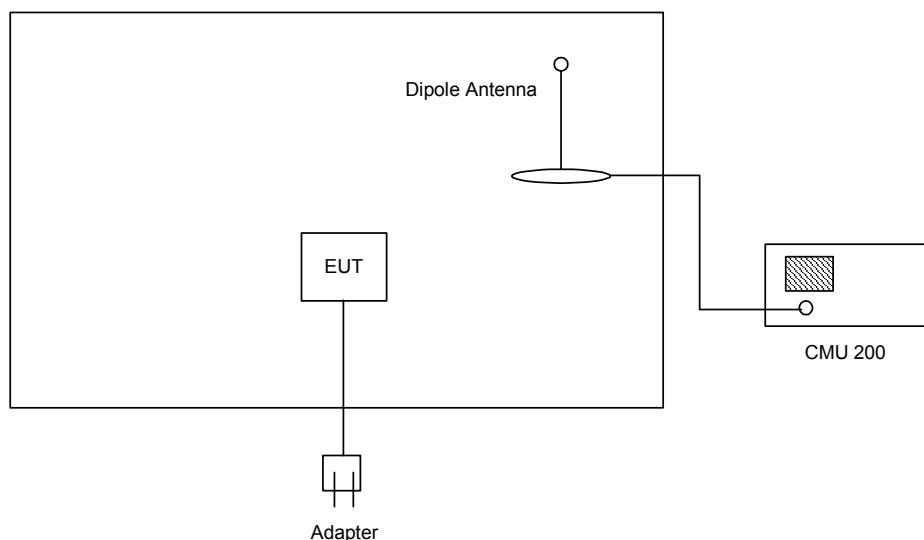
2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level. (PCL=0 for PCS 1900)
- Frequency range investigated: radiated emission 30MHz to 19000 MHz for PCS 1900.

2.2 Test Mode

Application	PCS 1900
Radiated Emission	☒ Mode 1: CH 661
Conducted Measurement	☒ Mode 1: CH 661

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Model No.	Serial No.
1.	Base Station	CMU200	105934



3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055

Test Site No : 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC. The Industry Canada file number for this site is IC 4088.

3.1 Test Voltage

120V/ 60Hz

3.2 Test in Compliance with

47 CFR Part 24E

3.3 Frequency Range Investigated

a. Radiation: from 30 MHz to 19000 MHz for PCS 1900.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	DESCRIPTION OF TEST	Result	Section
§2.1046	RF Output Power	Passed	4.2
§24.232	ERP / EIRP	Passed	4.3
§2.1049, § 24.238(b)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	Conducted Emission	Passed	4.5
§2.1053	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, §24.235	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §24.235	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

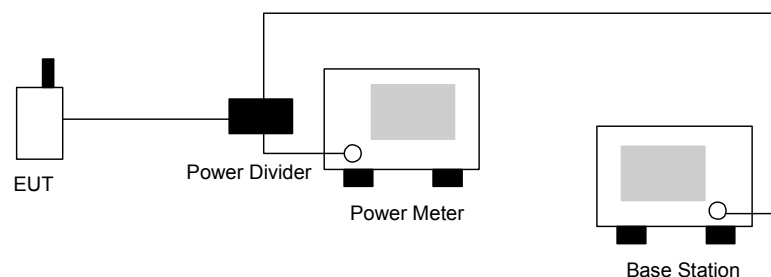
4.2.1 Measurement Instruments :

As described in chapter 5 of this test report.

4.2.2 Test Procedure :

1. The transmitter output was connected to power meter and base station through power divider.
2. Set EUT at PCL=0 for PCS 1900 through base station.
3. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout :



4.2.4 Test Result :

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
PCS 1900	512	1850.2 (Low)	28.20	0.661
	661	1880.0 (Mid)	28.79	0.757
	810	1909.8 (High)	28.87	0.771



4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-A.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

1. The EUT was placed on a rotatable table with 1.5 meter height.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiated power.
4. The height of the receiving antenna is also kept at 1.5m height.
5. Taking the record of maximum ERP/EIRP.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the Horn antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
9. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

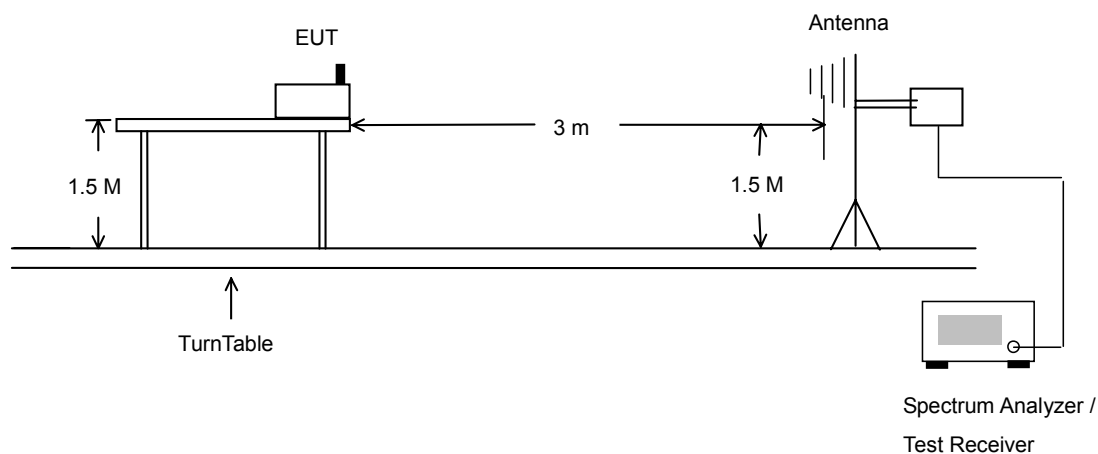
$E_t = R_t + AF$

$E_s + R_s + AF$

AF (dB/m): Receive antenna factor

10. R_t : the highest received signal in Spectrum Analyzer for EUT.

4.3.3 Test Setup Layout of ERP/EIRP



4.3.4 Test Result

PCS1900 Radiated Power EIRP					
H Polarization			V Polarization		
Frequency (MHz)	EIRP (dBm)	EIRP (Watts)	Frequency (MHz)	EIRP (dBm)	EIRP (Watts)
1850.170	18.680	0.07	1850.240	26.460	0.44
1879.990	19.900	0.10	1879.970	27.040	0.51
1909.870	19.730	0.09	1909.740	26.720	0.47

4.4 Occupied Bandwidth and Band Edge Measurement

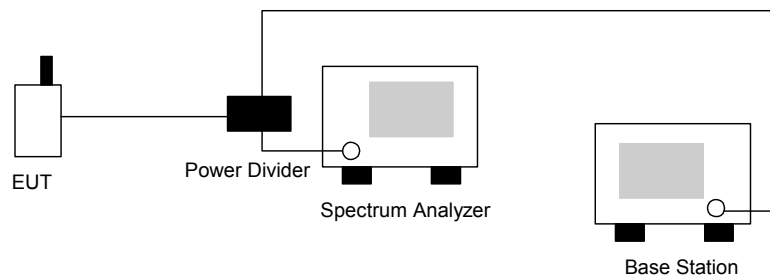
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

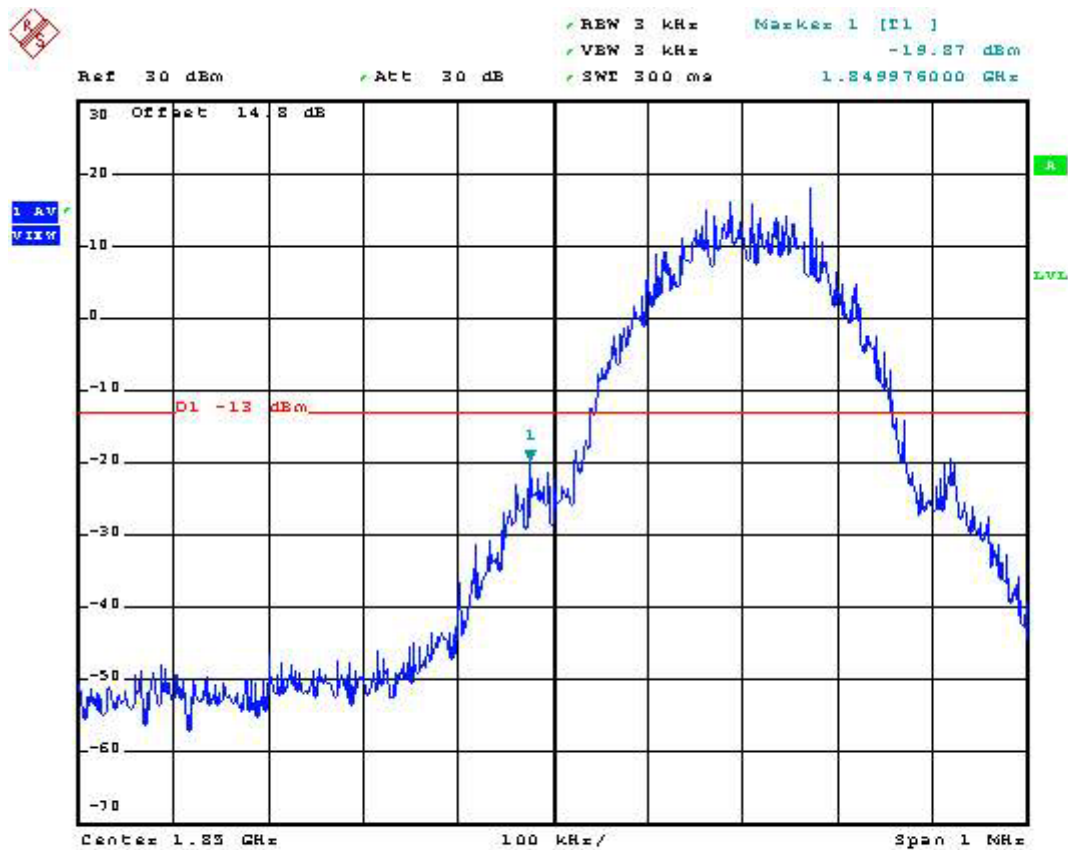
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/10.

4.4.3 Test Setup Layout



**4.4.4 Test Result**

- Test Mode : PCS 1900 CH512 Lower Band Edge
- Power State : High



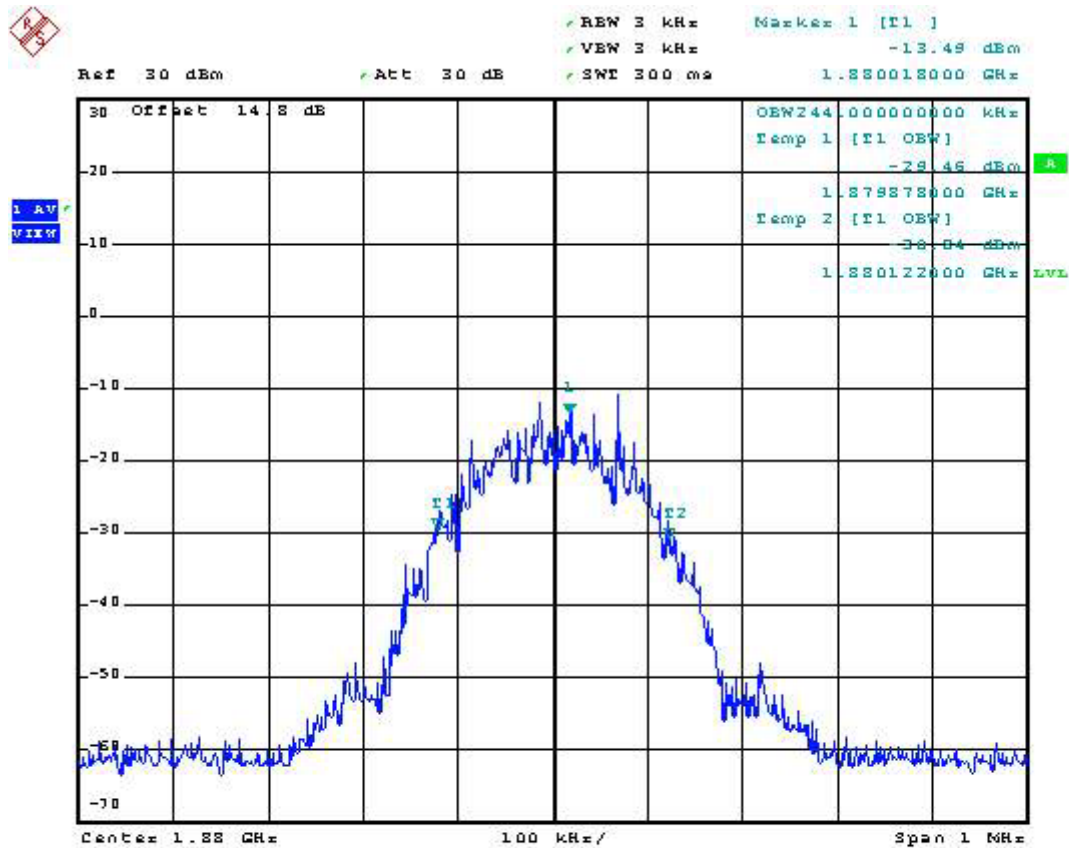
Date: 13.SEP.2005 23:58:51



FCC TEST REPORT

Report No. : FG580903-02

- Test Mode : PCS 1900 CH661 99% Occupied Bandwidth
- Power State : Low



Date: 13.SEP.2005 23:54:16

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : HFS-CT7688

Page No. : 11 of 28

Issued Date : Sep. 19, 2005

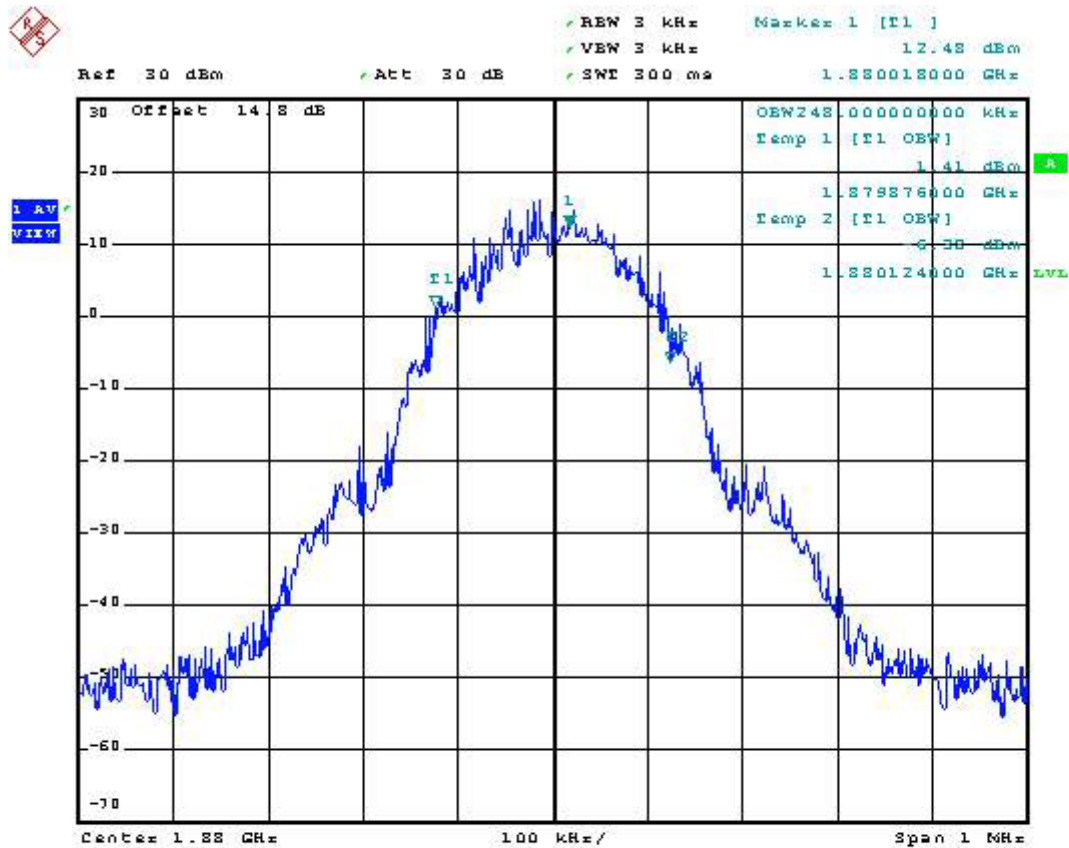
Rev. 01



FCC TEST REPORT

Report No. : FG580903-02

- Test Mode : PCS 1900 CH661 99% Occupied Bandwidth
- Power State : High



Date: 13.SEP.2005 23:50:59

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : HFS-CT7688

Page No. : 12 of 28

Issued Date : Sep. 19, 2005

Rev. 01



FCC TEST REPORT

Report No. : FG580903-02

- Test Mode : PCS 1900 CH810 Higher Band Edge
- Power State : High



Date: 13.SEP.2005 23:56:53

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : HFS-CT7688

Page No. : 13 of 28

Issued Date : Sep. 19, 2005

Rev. 01

4.5 Conducted Emission

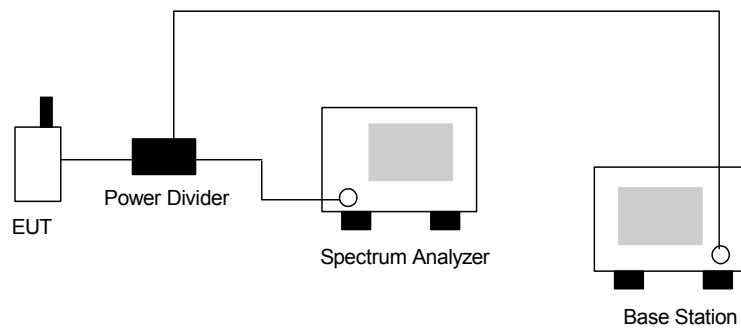
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

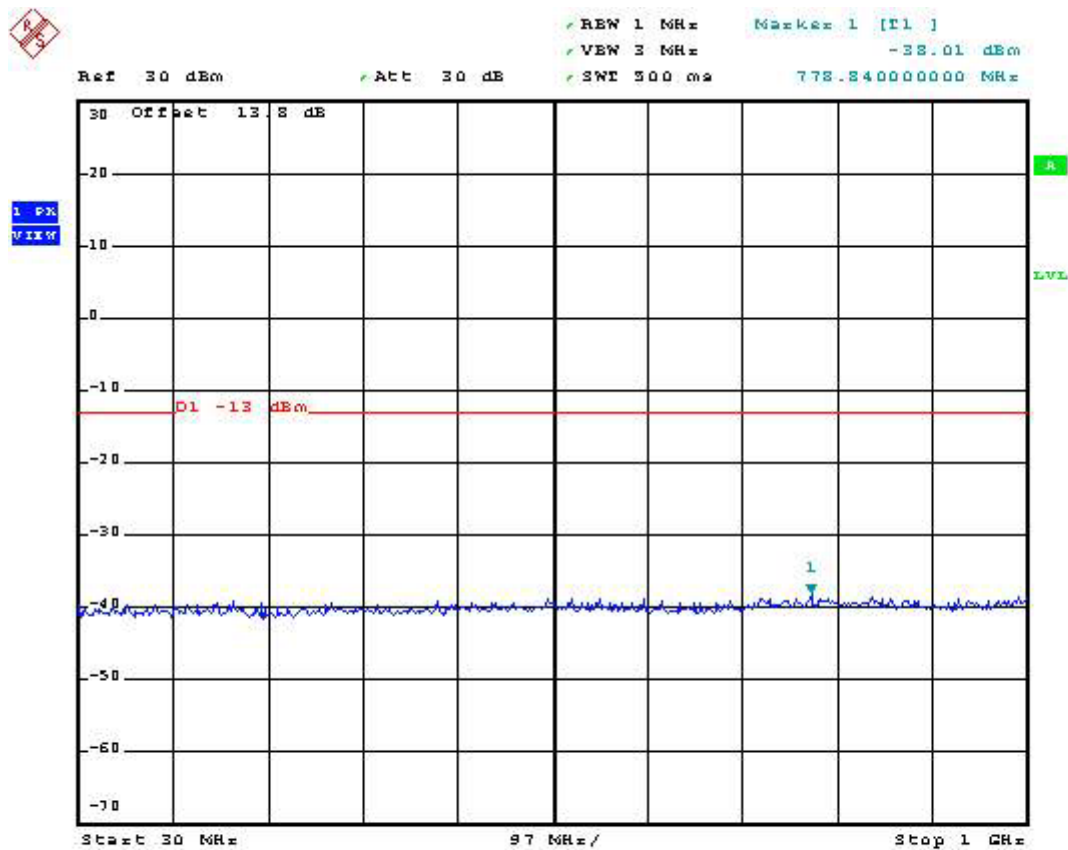
4.5.3 Test Setup Layout





4.5.4 Test Result

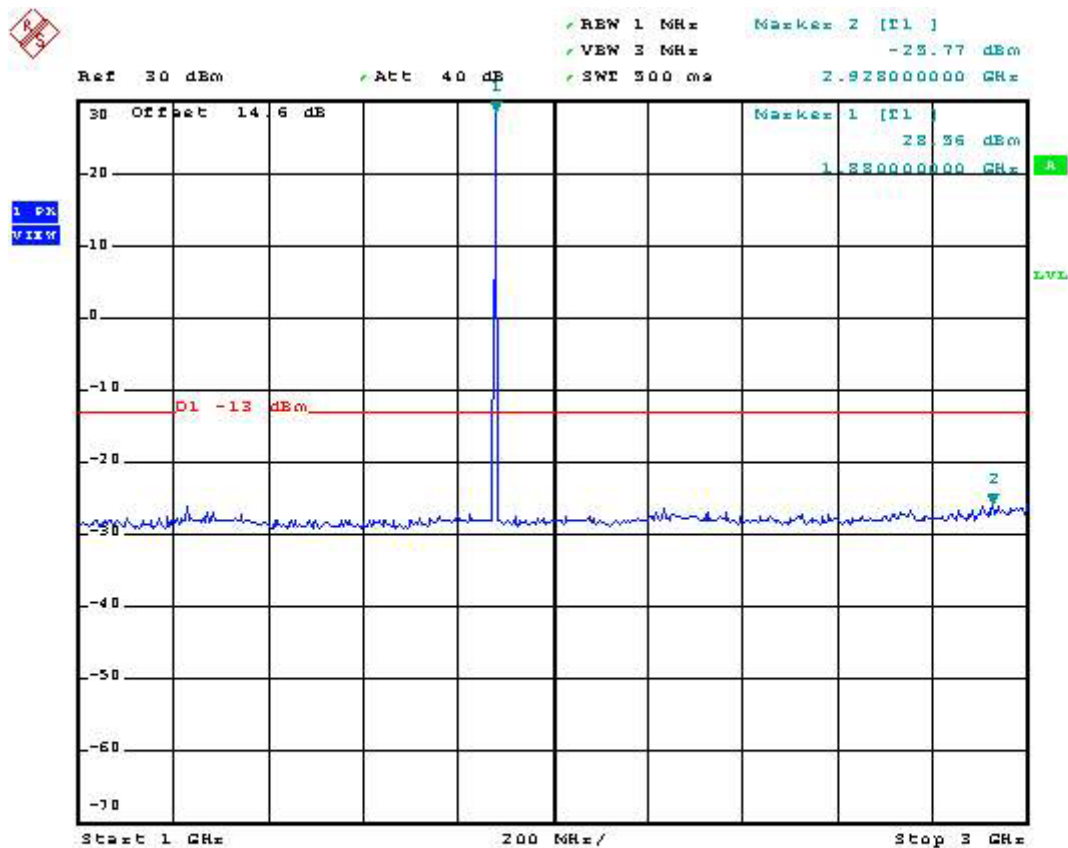
- Test Mode : PCS 1900 CH661
- Frequency Range : 0.3G-1G



Date: 14.SEP.2005 00:11:44



- Test Mode : PCS 1900 CH661
- Frequency Range : 1G-3G



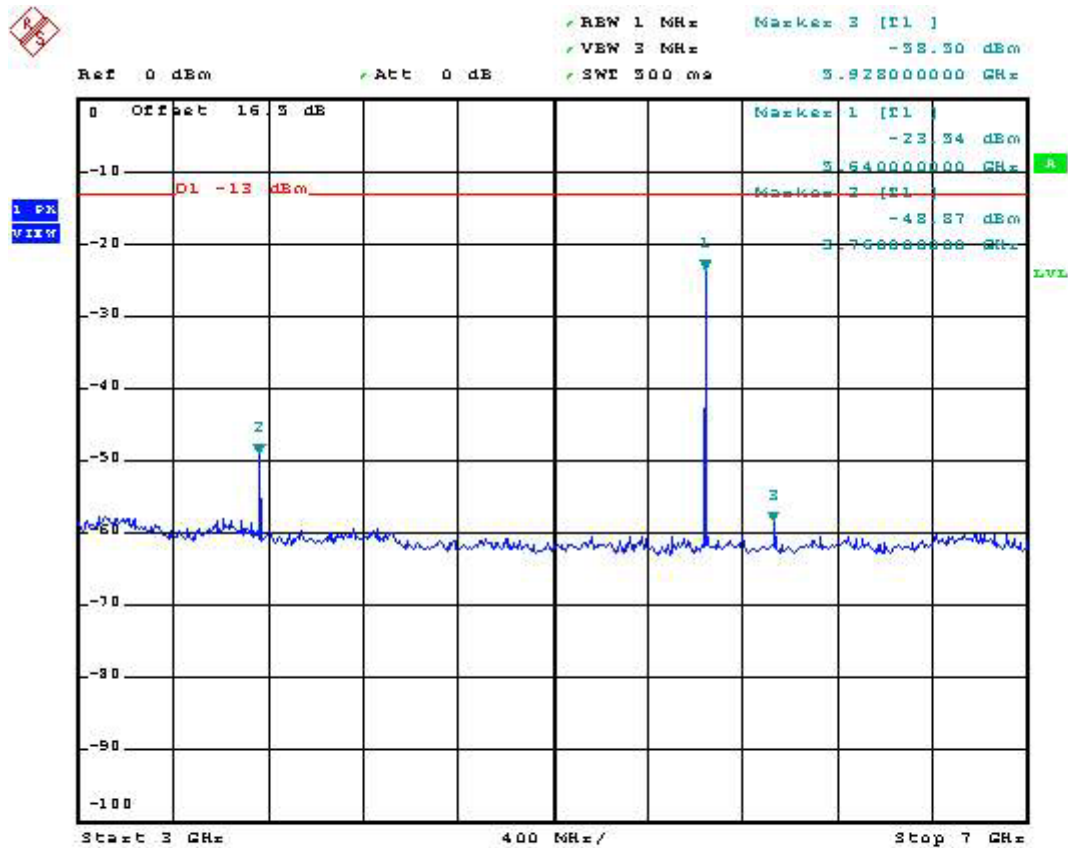
Date: 14.SEP.2005 00:16:15



FCC TEST REPORT

Report No. : FG580903-02

- Test Mode : PCS 1900 CH661
- Frequency Range : 3G-7G



Date: 14.SEP.2005 00:19:39

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : HFS-CT7688

Page No. : 17 of 28

Issued Date : Sep. 19, 2005

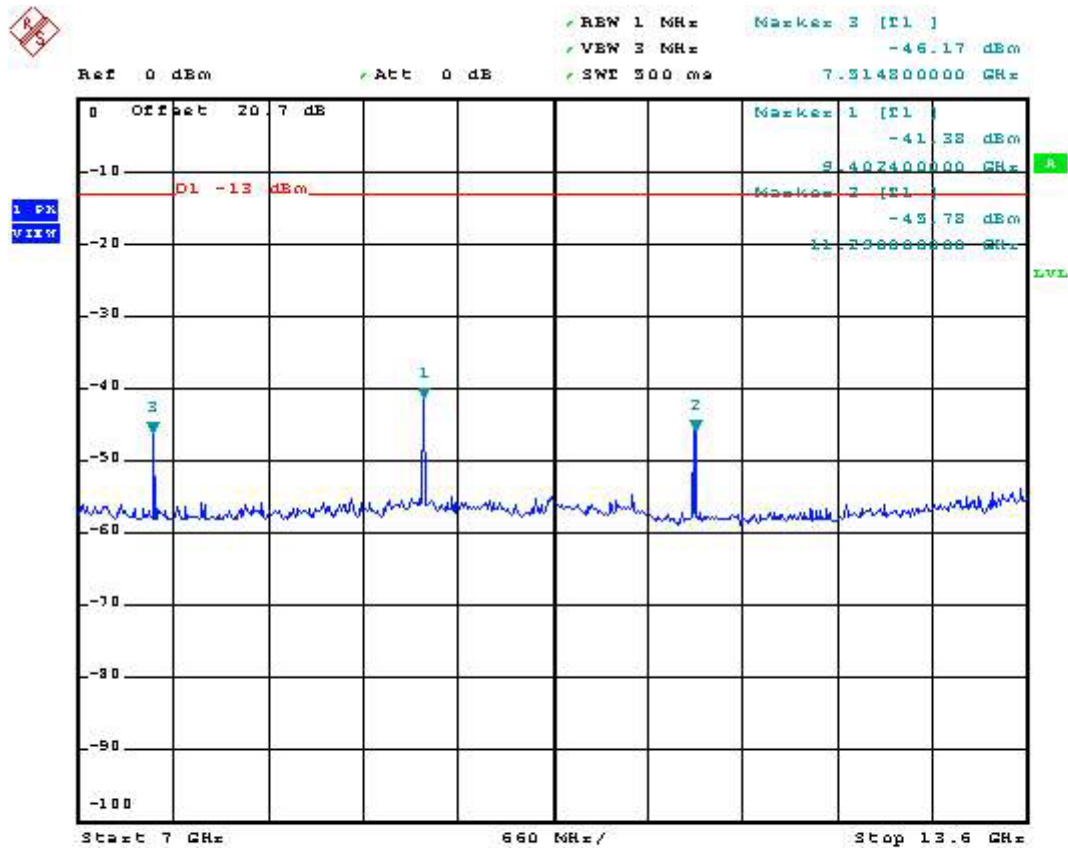
Rev. 01



FCC TEST REPORT

Report No. : FG580903-02

- Test Mode : PCS 1900 CH661
- Frequency Range : 7G-13.6G



Date: 14.SEP.2005 00:22:27

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : HFS-CT7688

Page No. : 18 of 28

Issued Date : Sep. 19, 2005

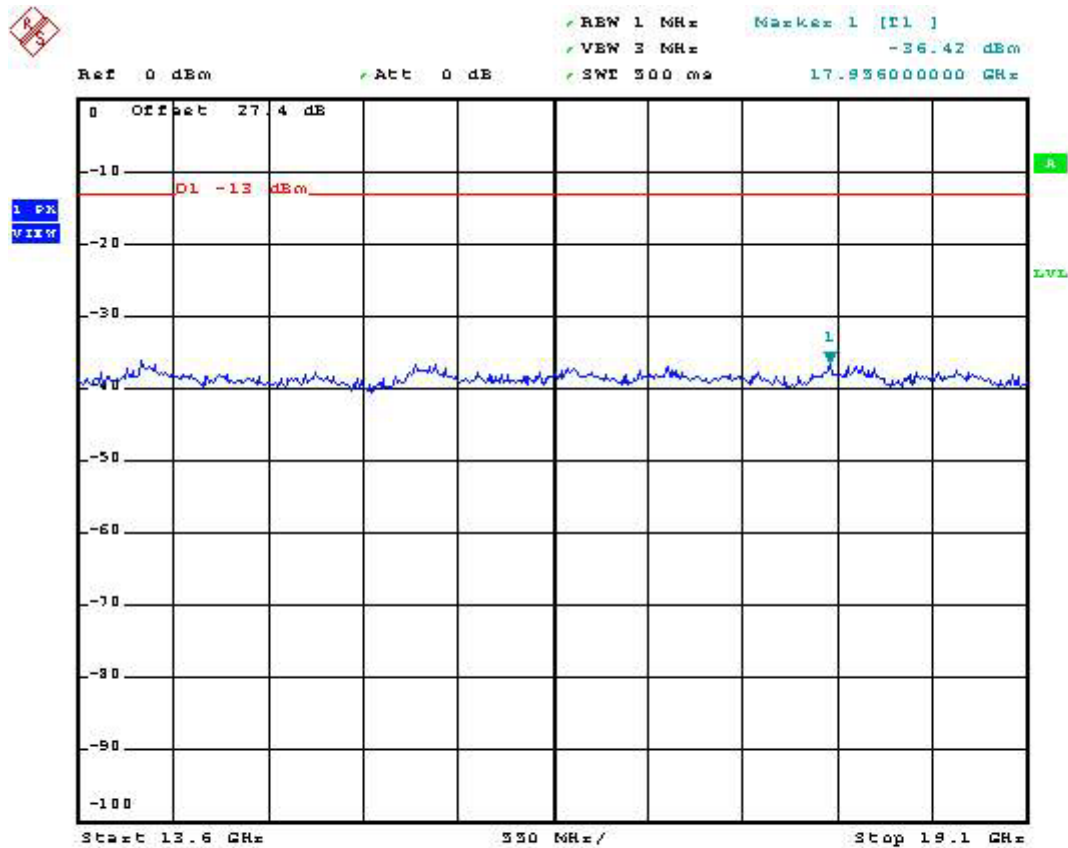
Rev. 01



FCC TEST REPORT

Report No. : FG580903-02

- Test Mode : PCS 1900 CH661
- Frequency Range : 13.6G-19.1G



Date: 14.SEP.2005 00:24:31

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : HFS-CT7688

Page No. : 19 of 28

Issued Date : Sep. 19, 2005

Rev. 01



4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-A.

4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

4.6.3 Test Setup Layout

As the setup in section 4.3.3.

4.6.4 Test Result

- Test Mode : Mode 1

PCS1900 Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
30.540	-56.950	-13	-43.95	44.580	-51.590	-13	-38.59
60.780	-55.850	-13	-42.85	58.890	-46.700	-13	-33.70
129.090	-62.920	-13	-49.92	88.590	-56.820	-13	-43.82
841.800	-60.670	-13	-47.67	836.900	-58.720	-13	-45.72
2038.000	-56.450	-13	-43.45	2038.000	-54.950	-13	-41.95
3758.000	-51.780	-13	-38.78	3758.000	-49.370	-13	-36.37
5638.000	-42.730	-13	-29.73	5638.000	-42.230	-13	-29.23
10018.000	-40.440	-13	-27.44	9398.000	-42.040	-13	-29.04



4.6.5 Test Data

Horizontal Polarization

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1	30.54	-56.95	-43.95	-13.00	-56.70	-0.25	400	0	Peak
2 @	60.78	-55.85	-42.85	-13.00	-43.46	-12.39	400	0	Peak
3	129.09	-62.92	-49.92	-13.00	-50.34	-12.57	400	0	Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1	841.80	-60.67	-47.67	-13.00	-59.39	-1.29	100	0	Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1 @	1718.00	-48.96			-49.04	0.08	100	0	Peak
2 @	1878.00	-52.29			-51.78	-0.51	100	0	Peak
3	2038.00	-56.45	-43.45	-13.00	-55.72	-0.73	100	0	Peak

Remark:

- #1: TCCH signal
- #2: BCCH signal

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1 @	3758.00	-51.78	-38.78	-13.00	-59.71	7.92	300	360	Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1 @	5638.00	-42.73	-29.73	-13.00	-52.70	9.97	100	0	Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	cm	deg	
1 @	10018.00	-40.44	-27.44	-13.00	-61.41	20.98	100	0	Peak



Vertical Polarization

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dB	cm	deg	
1 @	44.58	-51.59	-38.59	-13.00	-38.41	-13.18	400	0 Peak
2 @	58.89	-46.70	-33.70	-13.00	-33.14	-13.56	400	0 Peak
3	88.59	-56.82	-43.82	-13.00	-47.45	-9.37	400	0 Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dB	cm	deg	
1	836.90	-58.72	-45.72	-13.00	-60.09	1.36	100	0 Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dB	cm	deg	
1 @	1718.00	-44.59			-44.17	-0.42	100	0 Peak
2 @	1874.00	-49.55			-49.15	-0.40	100	0 Peak
3 @	2038.00	-54.95	-41.95	-13.00	-54.91	-0.04	100	0 Peak

Remark:

1. #1: TCCH signal
2. #2: BCCH signal

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dB	cm	deg	
1 @	3758.00	-49.37	-36.37	-13.00	-56.01	6.64	300	360 Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dB	cm	deg	
1 @	5638.00	-42.23	-29.23	-13.00	-50.88	8.65	100	0 Peak

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dB	cm	deg	
1 @	9398.00	-42.04	-29.04	-13.00	-59.24	17.20	100	0 Peak

4.7 Frequency Stability (Temperature Variation)

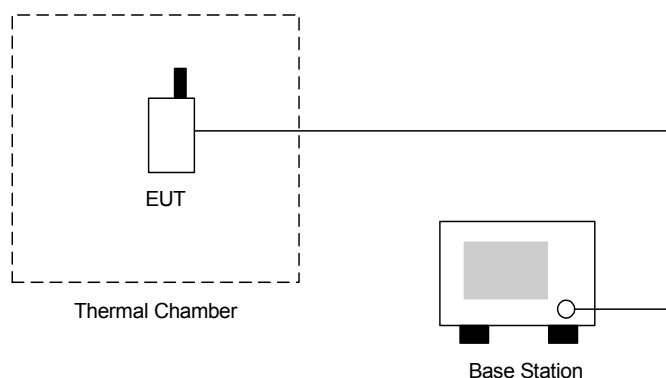
4.7.1 Measurement Instrument

As described in chapter 5 of this test report.

4.7.2 Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

4.7.3 Test Setup Layout



**4.7.4 Test Result**

- Test Mode : PCS 1900 CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-16	-0.01	2.5	Passed
-20	23	0.01		
-10	46	0.02		
0	42	0.02		
10	-37	-0.02		
20	43	0.02		
30	25	0.01		
40	23	0.01		
50	22	0.01		

4.8 Frequency Stability (Voltage Variation)

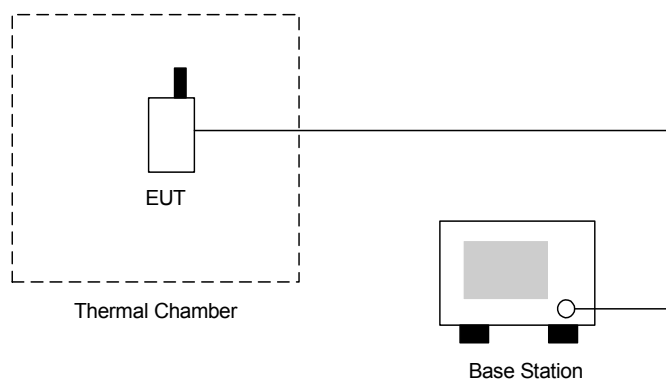
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

4.8.3 Test Setup Layout



4.8.4 Test Result

- Test Mode : PCS 1900 CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	25	0.01	2.5	Passed
BEP	187	0.10		
4.3	-30	-0.02		

Remark:

1. Normal Voltage=3.7V
2. Battery End Point (BEP)=3.1 V



5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Antenna Mast	INN-CO	MM3000	114/8000604/ L	1m~4m	NCR	N/A	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL6112B	2885	30MHz~2GHz	Nov. 21, 2004	Nov. 20, 2005	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	114/8000604/ L	N/A	NCR	N/A	Radiation (03CH06-HY)
Digital Radio Communication Tester	R&S	CMD55	832796/0061	RF Link	Feb. 18, 2004	Feb. 17, 2006	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Feb. 01, 2005	Jan. 31, 2006	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz~2.75GHz	Jun. 28, 2005	Jun. 27, 2006	Radiation (03CH06-HY)
PreAmplifier	Agilent	8449B	3008A01917	1~26.5GHz	Mar. 29, 2005	Mar. 28, 2006	Radiation (03CH06-HY)
PreAmplifier	Com-Power	PA-103	161055	1MHz~1000MHz	Mar. 29, 2005	Mar. 28, 2006	Radiation (03CH06-HY)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170-249	14G~40G	Jul. 21, 2004	Jul. 20, 2006	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz~26.5GHz	Jul. 25, 2005	Jul. 24, 2006	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0~360 Degree	NCR	N/A	Radiation (03CH06-HY)

6 Uncertainty Evaluation

Uncertainty of Conducted Emission Evaluation (30kHz ~ 1000MHz) (03CH03)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch Receiver VSWR $\Gamma_1 = 0.20$ Antenna VSWR $\Gamma_2 = 0.23$ Uncertainty = $20\log(1 - \Gamma_1 * \Gamma_2)$	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty $U_c(y)$	1.27		
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	2.54		

Uncertainty of Radiated Emission Evaluation (1GHz ~ 40GHz) (03CH03)

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	± 0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	± 1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	± 0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	4.72				

END OF TEST REPORT