for

47 CFR Part 24E

Equipment : GAM900/DCS1800/PCS1900/Bluetooth/WLAN Mobile Phone

Trade Name : GIGABYTE

Model No. : Stealth

Marketing Name : Xda Stealth

FCC ID : UJU9QSTEAL000

Tx Frequency Range : PCS 1900: 1850.2~1909.8MHz

Max. EIRP Power : PCS 1900: 0.46W

Emission Designator: 300 KGXW

Applicant : GIGA-BYTE Communications Inc.

8F, No.43, Fu-Hsin Road, Hsin-Tien, Taipei Hsien, Taiwan, R.O.C.

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- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsed by NVLAP or any agency of U.S. government.
- The data shown in this test report were carried out on Aug. 19, 2006 at **Sporton International Inc.**
- Report No.: FG681418-A, Report Version: Rev. 01

Roy Wu Deputy Manager

SPORTON International Inc.

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

SPORTON International Inc.

Report No.: FG681418-A

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 Report Version: Rev. 01

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Report Issued Date : Aug. 30, 2006

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History of this test report

Report Issue Date: Aug. 30, 2006

Report No.	Description

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1. General Information

1.1. Applicant

GIGA-BYTE Communications Inc.

8F, No.43, Fu-Hsin Road, Hsin-Tien, Taipei Hsien, Taiwan, R.O.C.

1.2. Manufacturer

GIGA-BYTE TECHNOLOGY CO., LTD.

No. 215, Nan-Ping Road, Pin-Jan City, Taoyuan, Taiwan, R.O.C.

1.3. Basic Description of Equipment under Test

: GAM900/DCS1800/PCS1900/Bluetooth/WLAN Mobile Phone Equipment

Trade Name : GIGABYTE Model No. : Stealth Marketing : Xda Stealth

FCC ID : UJU9QSTEAL000

Power Supply Type

: Switching, From battery 3.7V AC Power Cord : AC 120V, Wall-mount, 1.8 meter, 2 pin

Battery : Welldone, XP-04

Adapter : PHIHONG, PSC05R-050 PH Earphone : Coson Tech, EE-564B-37EN

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1.2 Feature of Equipment under Test

DUT Type :	GAM900/DCS1800/PCS1900/Bluetooth/WLAN Mobile Phone
Trade Name :	GIGABYTE
Model Name :	Stealth
Marketing Name :	Xda Stealth
FCC ID :	UJU9QSTEAL000
	PCS1900 : 1850 ~1910 MHz
Tx Frequency :	Bluetooth : 2400~2483.5 MHz
	802.11b / 802.11g : 2400 ~ 2483.5 MHz
	PCS1900 : 1930 ~ 1990 MHz
Rx Frequency :	Bluetooth : 2400~2483.5 MHz
	802.11b / 802.11g : 2400 ~ 2483.5 MHz
	PCS1900 : PIFA Antenna
Antenna Type :	Bluetooth : Chip Antenna
	802.11b / 802.11g : Chip Antenna
	PCS1900 : -2 dBi
Antenna Gain (Maximum Peak)	Bluetooth : -3 dBi
	802.11b / 802.11g : -3 dBi
Type of Antenna Connector	N/A
	PCS1900 : 29.70 dBm
Maximum Output Power to Antenna :	Bluetooth : -0.6 dBm
	802.11b: 17.28 dBm / 802.11g: 19.30 dBm
Maximum EIRP :	0.46 W (26.61 dBm)
HW Version :	Version 0.2
SW Version :	B02.003
Power Rating (DC/AC Voltage) :	DC 3.7V / 1300mA
	PCS1900 : GMSK
Digital Modulation Emission :	Bluetooth : GFSK
	802.11b / 802.11g : DSSS / OFDM
Type of Emission :	300 KGXW
DUT Stage :	Identical Prototype

1.3 Report Date

EUT Received : Aug. 15, 2006 Report Date : Aug. 30, 2006

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2 Test Configuration of Equipment under Test

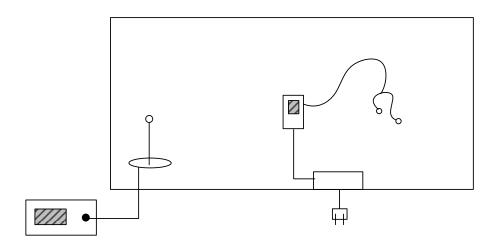
2.1 Test Manner

- a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- b. During all testings, EUT is in link mode with base station emulator at maximum power level. (PCL=0 for PCS 1900)
- c. Frequency range investigated: radiated emission 30MHz to 18000 MHz for PCS 1900.

2.2 Test Mode

Application	PCS 1900
Padiated Emission	
Radiated Emission	☑ Mode 2: PCS 1900 Link Mode_CH 661 + Earphone + Adaptor + WLAN Link
Conducted Measurement	☑ Mode 1: PCS 1900 Link Mode_CH 661

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	Power Cord
1.	Base Station	R & S	CMU200	AC 100-240V
2.	Dipole Antenna	N/A	Sporton	N/A
3.	Adapter	PHIHONG	PSC05R-050 PH	AC 100-240V
4.	Earphone	Coson Tech	EE-564B-37EN	N/A

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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.

3.4 Test Distance

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

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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

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4.2 RF Output Power

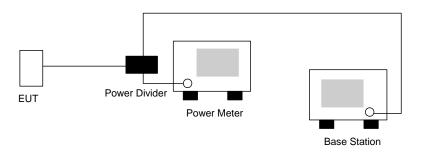
4.2.1 Measurement Instruments:

As described in chapter 5 of this test report.

4.2.2 Test Procedure:

- The transmitter output was connected to power meter and base station through power divider.
 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)
	512	1850.2 (Low)	29.62	0.916
PCS 1900	661	1880.0 (Mid)	29.70	0.933
	810	1909.8 (High)	29.66	0.925

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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 1.0 meter height in an fully anechoic chamber.
- 2. The EUT was set 1.2 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 1.0M height.
- 5. Taking the record of maximum ERP/EIRP.
- 6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. The conducted power at the terminal of the dipole antenna is measured.
- 8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 9. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es + Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in Spectrum Analyzer for EUT

Rs: The highest received signal in Spectrum Analyzer for substitution antenna.

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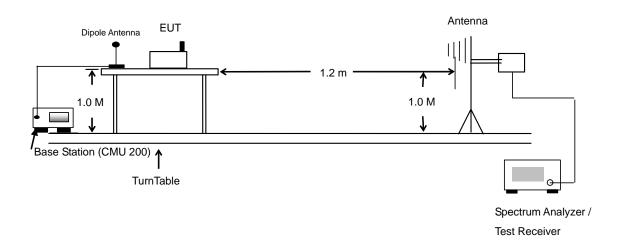
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4.3.3 Test Setup Layout of ERP/EIRP



4.3.4 Test Result

	PCS1900 Radiated Power EIRP								
	Horizontal Polarization								
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1850.20	-35.88	-51.88	0.00	1.96	17.96	0.06			
1880.00	-37.29	-52.99	0.00	2.00	17.70	0.06			
1909.80	-39.25	-54.28	0.00	1.98	17.01	0.05			
		V	ertical Polarization	on					
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1850.20	-27.48	-52.13	0.00	1.96	26.61	0.46			
1880.00	-29.25	-53.17	0.00	2.00	25.92	0.39			
1909.80	-31.28	-54.13	0.00	1.98	24.83	0.30			

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4.4 Occupied Bandwidth and Band Edge Measurement

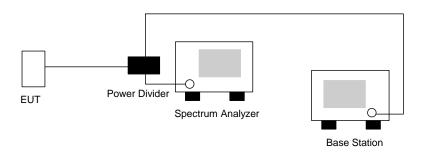
4.4.1 Measurement Instruments

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/100.

4.4.3 Test Setup Layout



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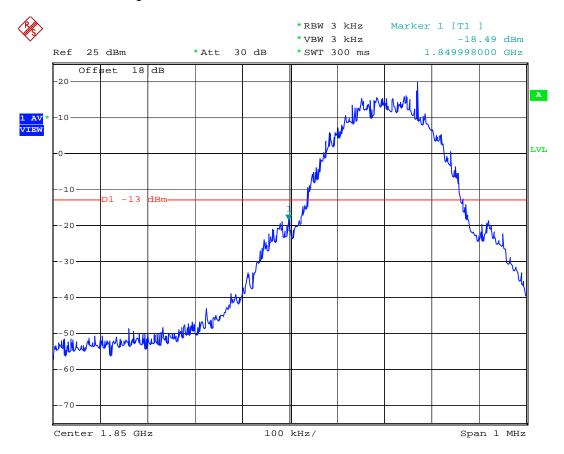
FCC ID : UJU9QSTEAL000

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4.4.4 Test Result

Test Mode: PCS 1900 CH512 Lower Band Edge

Power State : High



Date: 16.AUG.2006 17:25:15

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

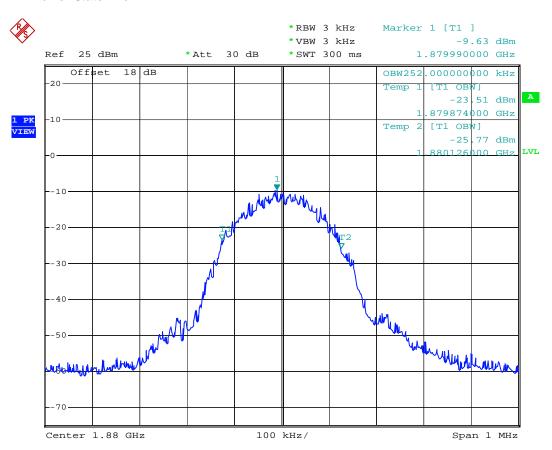
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Test Mode: PCS 1900 CH661 99% Occupid Bandwidth

Power State : Low



Date: 16.AUG.2006 17:21:42

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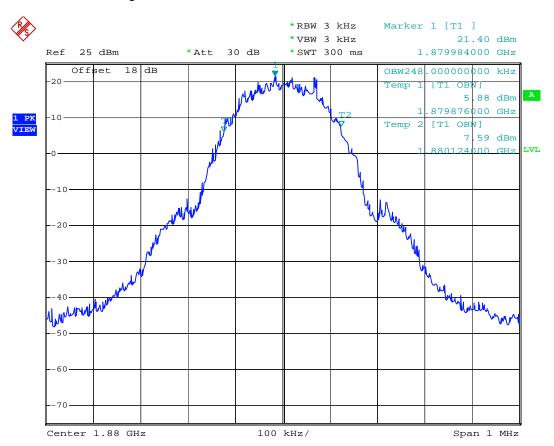
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Test Mode : PCS 1900 CH661 99% Occupid Bandwidth

Power State : High



Date: 16.AUG.2006 17:18:25

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FCC ID : UJU9QSTEAL000

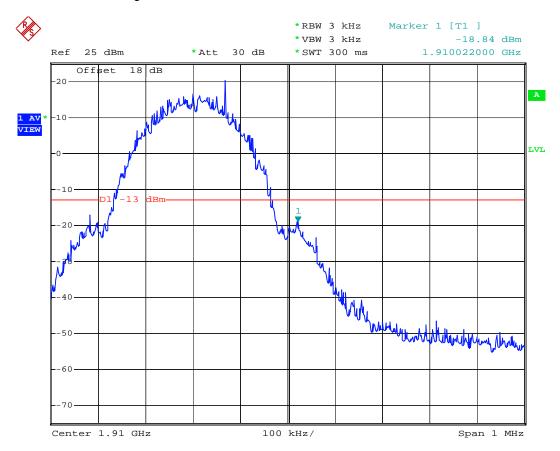
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Test Mode: PCS 1900 CH810 Higher Band Edge

Power State : High



Date: 16.AUG.2006 17:26:41

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4.5 Conducted Emission

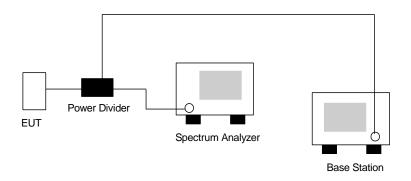
4.5.1 Measurement Instruments

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



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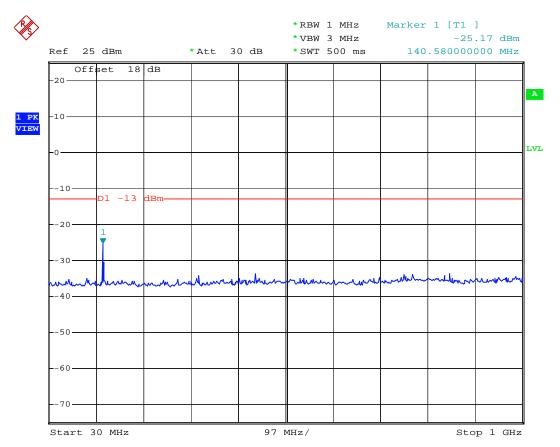
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4.5.4 Test Result

Test Mode : PCS 1900 CH661Frequency Range : 0.3G-1G



Date: 16.AUG.2006 17:28:39

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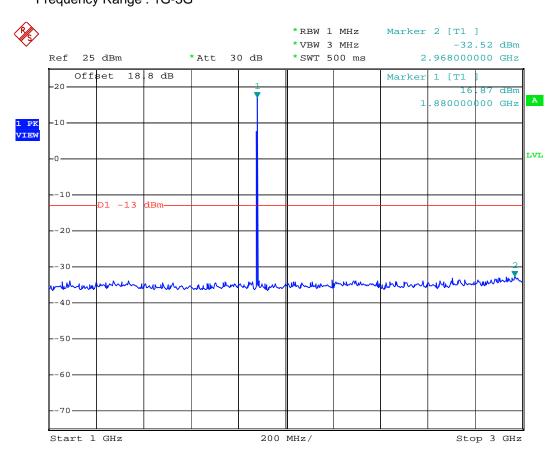
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Test Mode : PCS 1900 CH661Frequency Range : 1G-3G



Date: 16.AUG.2006 21:14:19

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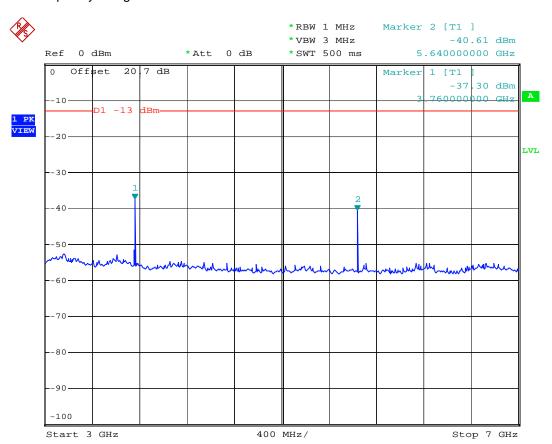
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Test Mode : PCS 1900 CH661Frequency Range : 3G-7G



Date: 16.AUG.2006 17:38:35

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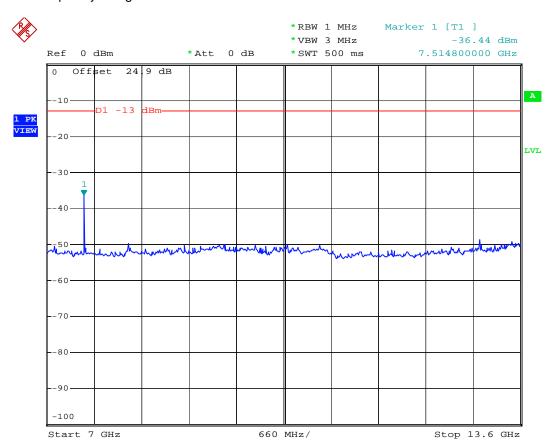
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Test Mode : PCS 1900 CH661Frequency Range : 7G-13.6G



Date: 16.AUG.2006 17:39:54

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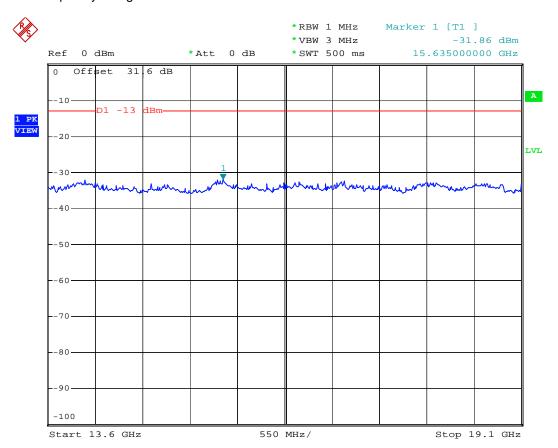
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Test Mode : PCS 1900 CH661Frequency Range : 13.6G-19.1G



Date: 16.AUG.2006 17:41:39

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4.6 Field Strength of Spurious Radiation

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

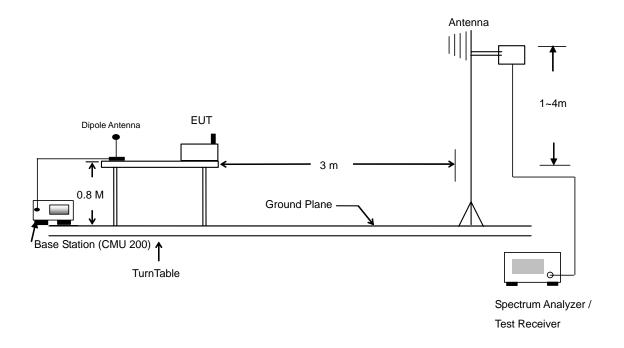
4.6.1 Measurement Instruments

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 recored of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polariztion.
- 10. Emission level (dBm) = output power + substituion Gain.

4.6.3 Test Setup Layout



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4.6.4 Test Result

Test Mode : Mode 1

rest Mode :	Test Mode : Mode 1									
	PCS1900 Radiated Spurious EIRP									
	H Polarizati	on			V Polarizati	on				
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin			
(MHz)	LIKE (UDIII)	(dBm)	(dB)	(MHz)	LIKE (abili)	(dBm)	(dB)			
69.690	-47.990	-13	-34.99	71.580	-42.690	-13	-29.69			
156.630	-47.950	-13	-34.95	91.290	-45.800	-13	-32.80			
280.290	-53.040	-13	-40.04	165.540	-43.090	-13	-30.09			
300.000	-57.320	-13	-44.32	301.400	-56.100	-13	-43.10			
318.900	-58.020	-13	-45.02	357.400	-57.270	-13	-44.27			
351.800	-61.720	-13	-48.72	381.900	-57.770	-13	-44.77			
3758.000	-45.350	-13	-32.35	1708.000	-57.410	-13	-44.41			
5638.000	-49.590	-13	-36.59	3758.000	-45.020	-13	-32.02			
				5638.000	-52.330	-13	-39.33			
				7518.000	-44.060	-13	-31.06			

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Test Mode: Mode 2

PCS1900 with WLAN Co-location Radiated Spurious EIRP									
	H Polarizati	on			V Polarizati	on			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	EIRP (dBm)			Margin (dB)		
		(- /	(, ,		(-)	(-)		
37.290	-34.010	-13	-21.01	35.940	-50.910	-13	-37.91		
47.280	-49.440	-13	-36.44	71.040	-48.990	-13	-35.99		
70.230	-49.330	-13	-36.33	165.540	-47.020	-13	-34.02		
300.000	-59.020	-13	-46.02	320.300	-56.790	-13	-43.79		
320.300	-60.340	-13	-47.34	V Polarization rgin Frequency (MHz) EIRP (dBm) Limit (dBm) .01 35.940 -50.910 -13 3.44 71.040 -48.990 -13 3.33 165.540 -47.020 -13 3.02 320.300 -56.790 -13 3.44 462.400 -65.910 -13 3.47 962.900 -62.470 -13 3.06 1558.000 -53.660 -13 3.87 3758.000 -47.010 -13 3.01 4824.000 -47.100 -13	-52.91				
344.800	-62.470	-13	-49.47	962.900	-62.470	-13	-49.47		
3758.000	-47.060	-13	-34.06	1558.000	-53.660	-13	Limit (dBm) (dB) -13 -37.91 -13 -35.99 -13 -34.02 -13 -43.79 -13 -52.91 -13 -49.47 -13 -40.66 -13 -34.01 -13 -34.10		
4824.000	-43.870	-13	-30.87	3758.000	-47.010	-13	-34.01		
5638.000	-50.010	-13	-37.01	4824.000	-47.100	-13	-34.10		
				7518.000	-44.900	-13	-31.90		

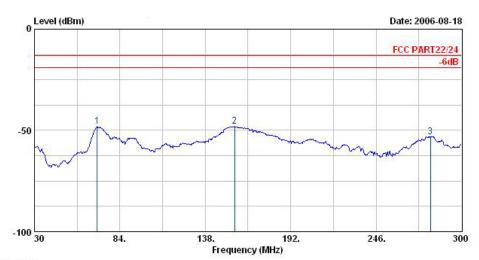
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000

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4.6.5 Test Data

Mode 1 Horizontal Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL

Smart Phone 120Vac/60Hz EUT Model

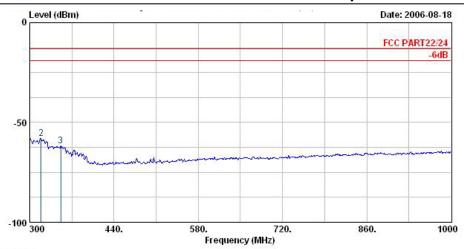
: FG 681418 : PCS1900 Link Mode ch661+Earphone+Adaptor Memo Plane

Freq	Level		Limit Line		Factor	Remark
MHz	<u>dB</u> m	<u>dB</u>	<u>dB</u> m	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
156.63	-47.99 -47.95	-34.95	-13.00	-35.05	-12.90	Peak

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

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: 03CH06-HY Site

Condition : LF-SPURIOUS HORIZONTAL

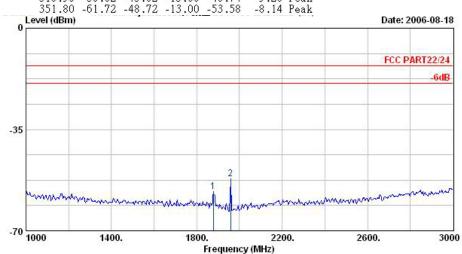
EUT : Smart Phone 120Vac/60Hz Model : FG 681418

Memo : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane

1 2 3

Freq	Level		Limit Line		Factor	Remark	
MHz	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	dB m	\overline{dB}		
318.90	-57.32 -58.02 -61.72	-45.02	-13.00	-48.74	-9.28	Peak	



Site

: 03CH06-HY : HF-SPURIOUS HORIZONTAL Condition :

EUT Smart Phone Power 120Vac/60Hz Model FG 681418

: PCS1900 Link Mode ch661+Earphone+Adaptor Memo

Plane

1 2

Freq	Level		Limit Line		Factor	Remark
MHz	dBm	<u>dB</u>	dBm	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
1878.00 1958.00					-0.51 -1.11	

Remark:

1. #1: MS TCH Signal 2. #2: BS TCH Signal

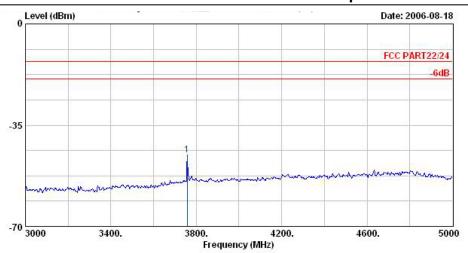
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UJU9QSTEAL000 FCC ID

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Report Issued Date : Aug. 30, 2006 Report Version : Rev. 01



Site

: 03CH06-HY : HF-SPURIOUS HORIZONTAL Condition :

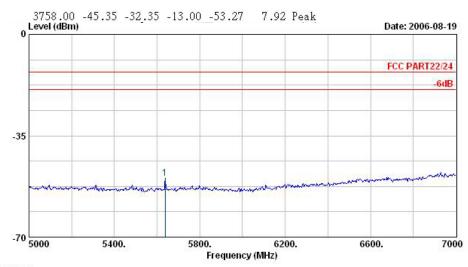
EUT Smart Phone Power 120Vac/60Hz Model FG 681418

: PCS1900 Link Mode ch661+Earphone+Adaptor Memo

· H Plane

Freq	Level		Limit Line		Factor	Remark
MHz	<u>d</u> Bm	\overline{dB}	\overline{dBm}	<u>d</u> Bm	\overline{dB}	

1 @



: 03CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT Smart Phone 120Vac/60Hz Power Model

Memo PCS1900 Link Mode ch661+Earphone+Adaptor

Plane

1

MHz dBm dB dBm dBm dB 5638.00 -49.59 -36.59 -13.00 -59.56 9.97 Peak

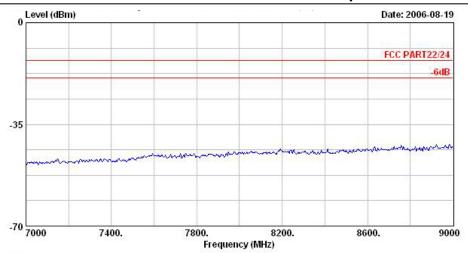
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UJU9QSTEAL000 FCC ID

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Report No.: FG681418-A



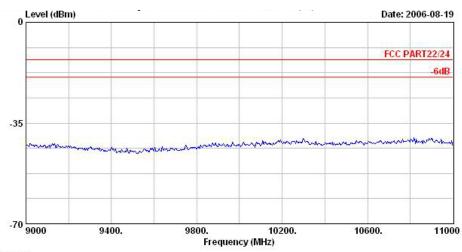
Site

: 03CH06-HY : HF-SPURIOUS HORIZONTAL : Smart Phone Condition : EUT :

Power 120Vac/60Hz Model FG 681418

: PCS1900 Link Mode ch661+Earphone+Adaptor Memo

Plane



Site : 03CH06-HY Condition : HF-SPURIOUS HORIZONTAL

EUT Smart Phone 120Vac/60Hz Power Model

Memo PCS1900 Link Mode ch661+Earphone+Adaptor

Plane

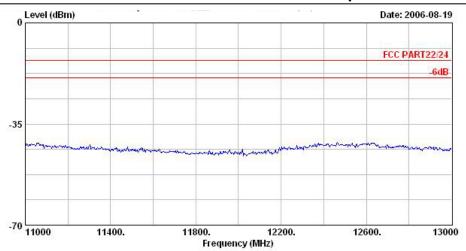
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000 Page No. : 26 of 48

Report Issued Date : Aug. 30, 2006

Report No.: FG681418-A



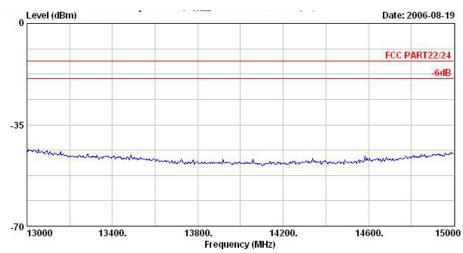
: 03CH06-HY Site

Condition : HF-SPURIOUS HORIZONTAL

Smart Phone Power 120Vac/60Hz Model

: FG 681418 : PCS1900 Link Mode ch661+Earphone+Adaptor Memo

Plane



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

EUT Smart Phone Power 120Vac/60Hz ModelFG 681418

Memo PCS1900 Link Mode ch661+Earphone+Adaptor

Plane : H

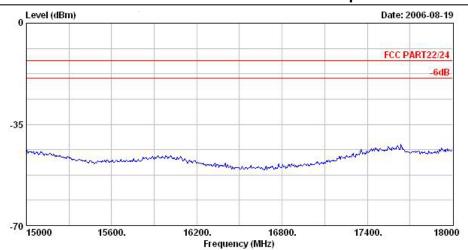
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000 Page No. : 27 of 48

Report Issued Date : Aug. 30, 2006

Report No.: FG681418-A



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

EUT Smart Phone Power Model Memo : 120Vac/60Hz

: FG 681418 : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane

SPORTON International Inc.

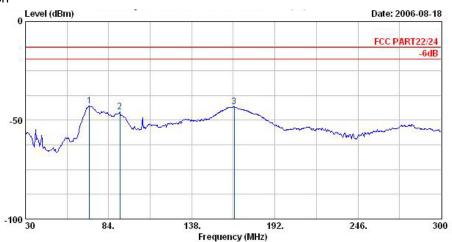
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000

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Vertical Polarization



Site : 03CH06-HY

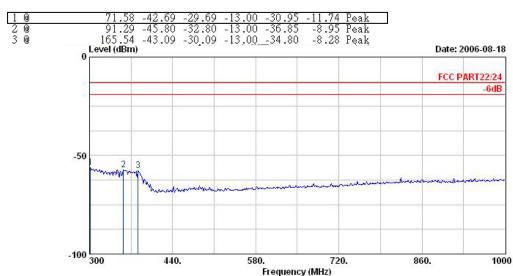
Condition : LF-SPURIOUS VERTICAL

: Smart Phone : 120Vac/60Hz EUT Power Model : FG 681418

Memo : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane

Freq	Level		Limit Line	***	Factor	Remark
MHz	dBm	<u>dB</u>	dBm	dBm	<u>dB</u>	



Site : 03CH06-HY Condition : LF-SPURIOUS VERTICAL

EUT Smart Phone Power Model 120Vac/60Hz : FG 681418

: PCS1900 Link Mode ch661+Earphone+Adaptor Memo

: н		Level	Limit	0,200,000	Level	***************************************	Remark
	301.40 357.40	-56.10 -57.27 -57.77	-43.10 -44.27	-13.00 -13.00	-49.68 -52.05	-6.42 -5.22	Peak

SPORTON International Inc.

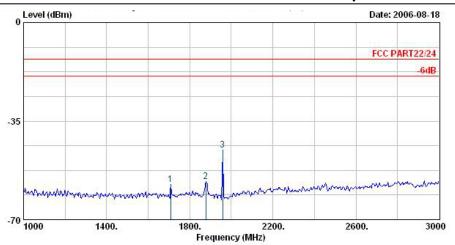
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

1 2 3

: UJU9QSTEAL000 FCC ID

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Report No.: FG681418-A



Site : 03CH06-HY Condition : HF-SPURIOUS VERTICAL

EUT : Smart Phone $120 \mathrm{Vac}/60 \mathrm{Hz}$ Model

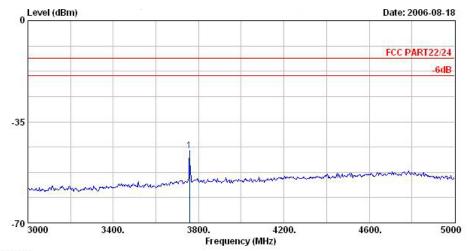
: FG 681418 : PCS1900 Link Mode ch661+Earphone+Adaptor Memo

Plane

	Freq	Level		Limit Line		Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
18	78.00	-57.41 -56.50 -45.27	-44.41	-13.00		-0.40	Peak

1 2 3 @ Remark:

1. #2: MS TCH Signal 2. #3: BS TCH Signal



: 03CH06-HY Site

Condition : HF-SPURIOUS VERTICAL

EUT Smart Phone 120Vac/60Hz Power Model FG 681418

Memo : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane

Freq	Level		Limit		Factor	Remark
MHz	dBm	$\overline{}\overline{d}\overline{B}$	dBm	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
3758.00	-45.02	-32.02	-13.00	-51.66	6.64	Peak

SPORTON International Inc.

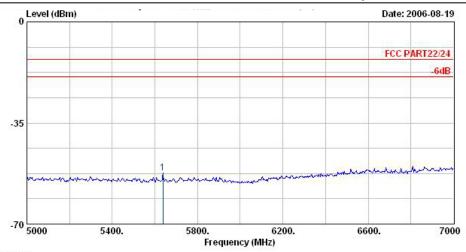
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

1 @

: UJU9QSTEAL000 FCC ID

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Report No.: FG681418-A



Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FG 681418

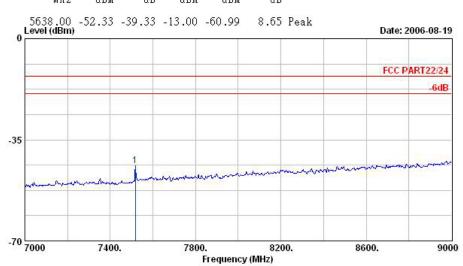
Memo : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane : H

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

1



Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FG 681418

Memo : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane : H

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

1 @ 7518.00 -44.06 -31.06 -13.00 -57.43 13.37 Peak

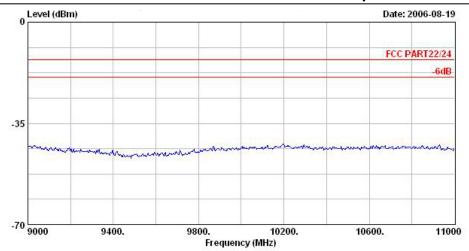
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000

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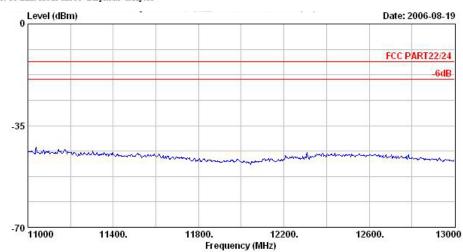
Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL EUT : Smart Phone

EUT : Smart Phone Power : 120Vac/60Hz Model : FG 681418

Memo : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane : H



Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FG 681418

Memo : PCS1900 Link Mode ch661+Earphone+Adaptor

Plane : H

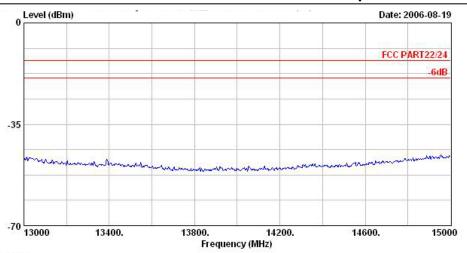
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000

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Report Issued Date : Aug. 30, 2006

Report No.: FG681418-A



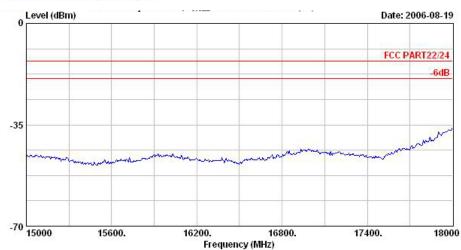
Site : Condition :

: 03CH06-HY : HF-SPURIOUS VERTICAL

EUT Smart Phone Power 120Vac/60Hz ModelFG 681418

: PCS1900 Link Mode ch661+Earphone+Adaptor : H Memo

Plane



Site : 03CH06-HY Condition : HF-SPURIOUS VERTICAL

EUT Smart Phone 120Vac/60Hz Power ModelFG 681418

Memo PCS1900 Link Mode ch661+Earphone+Adaptor

Plane

SPORTON International Inc.

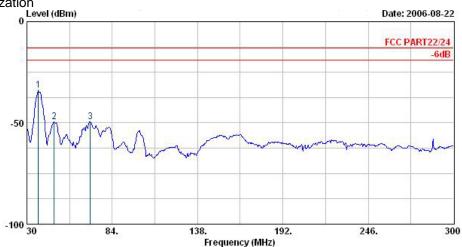
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000 Page No. : 33 of 48

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FCC TEST REPORT Report No.: FG681418-A

Mode 2 Horizontal Polarization



Site : 03CH06-HY Condition : LF-SPURIOUS HORIZONTAL

EUT : Smart Phone Power : 120Vac/60Hz Model: FG 681418

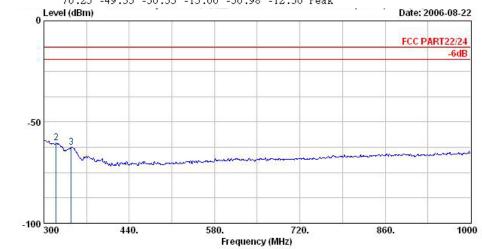
: PCS1900 Link Mode Ch661+Earphone+Adaptor : +WLAN 11b TX Ch01 Memo

Memo

Plane

Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
MHz	dBm	<u>dB</u>	dBm	dBm	<u>dB</u>	000000000000000000000000000000000000000

37.29 -34.01 -21.01 -13.00 -29.50 -4.51 Peak 47.28 -49.44 -36.44 -13.00 -38.83 -10.60 Peak 70.23 -49.33 -36.33 -13.00 -36.98 -12.36 Peak



Site : 03CH06-HY

LF-SPURIOUS HORIZONTAL Condition :

EUT Smart Phone Power $120 \mathrm{Vac}/60 \mathrm{Hz}$ Model

FG 681418 PCS1900 Link Mode Ch661+Earphone+Adaptor +WLAN 11b TX Ch01 Memo

Memo

me	: п	Freq	Level		Limit Line			Remark
		M Hz	dBm	<u>dB</u>	dB m	dBm	$\overline{-}\overline{d}\overline{B}$	
1 2 3		320.30	-59.02 -60.34 -62.47	-47.34	-13.00	-51.10	-9.24	Peak

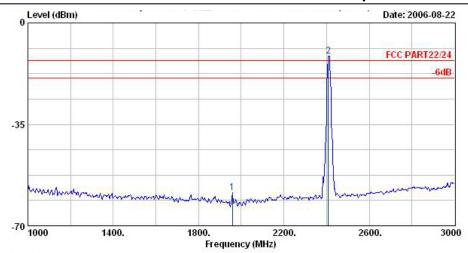
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UJU9QSTEAL000 FCC ID

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Site

: 03CH06-HY : HF-SPURIOUS HORIZONTAL Condition :

EUT Smart Phone Power 120Vac/60Hz Model FG 681418

: PCS1900 Link Mode Ch661+Earphone+Adaptor : +WLAN 11b TX Ch01 Memo

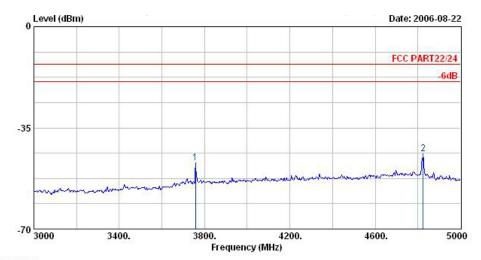
Memo

Plane

Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark	
MHz	dBm	<u>dB</u>	dBm	dBm	−−−−dB	020202020202020202	333
1958.00 2408.00					-1.11 0.89		

1 2 @ Remark:

1. #1: BS TCH Signal 2. #2: WLAN Signal



: 03CH06-HY : HF-SPURIOUS HORIZONTAL Condition

EUT Smart Phone 120Vac/60Hz Power Model FG 681418

Memo PCS1900 Link Mode Ch661+Earphone+Adaptor

Memo +WLAN 11b TX Ch01

: H Plane

Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
MHz	dBm	dB	dBm	dBm	\overline{dB}	22020202020202020202
3758.00 4824.00						

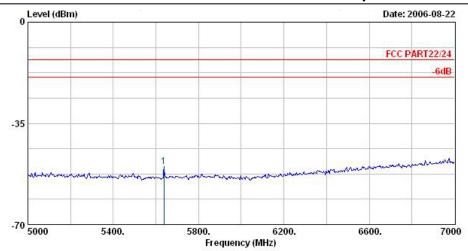
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

1 2

: UJU9QSTEAL000 FCC ID

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Site : 03CH06-HY

Condition HF-SPURIOUS HORIZONTAL

EUT Smart Phone Power 120Vac/60Hz Model FG 681418

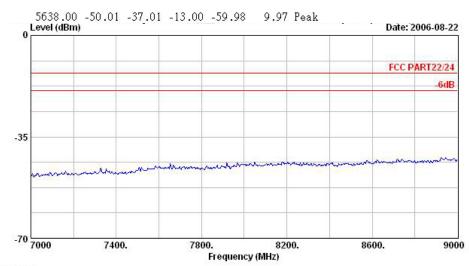
PCS1900 Link Mode Ch661+Earphone+Adaptor Memo

Memo +WLAN 11b TX Ch01

Plane

1

Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
MHz	dBm	\overline{dB}	dBm	dBm	\overline{dB}	120202020202020202020



: 03CH06-HY : HF-SPURIOUS HORIZONTAL Site : Condition :

EUT Smart Phone Power 120Vac/60Hz ModelFG 681418

PCS1900 Link Mode Ch661+Earphone+Adaptor +WLAN 11b TX Ch01 Memo

Memo

: H Plane

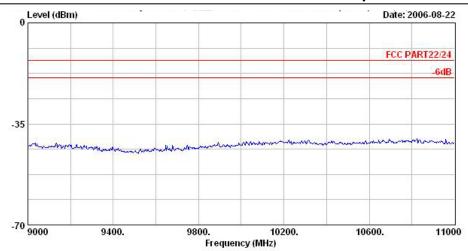
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UJU9QSTEAL000 FCC ID

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: 03CH06-HY Site

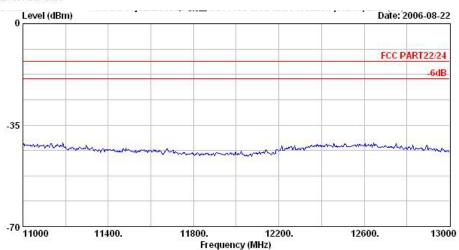
Condition : HF-SPURIOUS HORIZONTAL

EUT Smart Phone Power $120 \mathrm{Vac}/60 \mathrm{Hz}$ Model

FG 681418 PCS1900 Link Mode Ch661+Earphone+Adaptor +WLAN 11b TX Ch01 Memo

Memo

Plane



: 03CH06-HY

Condition : HF-SPURIOUS HORIZONTAL EUT : Smart Phone

Smart Phone 120Vac/60Hz Power Model FG 681418

PCS1900 Link Mode Ch661+Earphone+Adaptor Memo

: +WLAN 11b TX Ch01 : H Memo

Plane

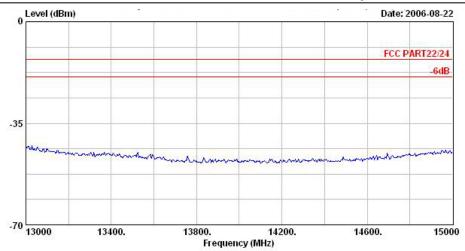
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000 Page No. : 37 of 48

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Site

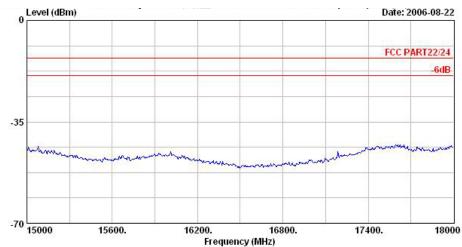
: 03CH06-HY : HF-SPURIOUS HORIZONTAL Condition :

EUT Smart Phone Power 120Vac/60Hz Model FG 681418

PCS1900 Link Mode Ch661+Earphone+Adaptor +WLAN 11b TX Ch01 Memo

Memo

Plane



Site : 03CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT Smart Phone Power 120Vac/60Hz Model

FG 681418 PCS1900 Link Mode Ch661+Earphone+Adaptor Memo

Memo +WLAN 11b TX Ch01

Plane

SPORTON International Inc.

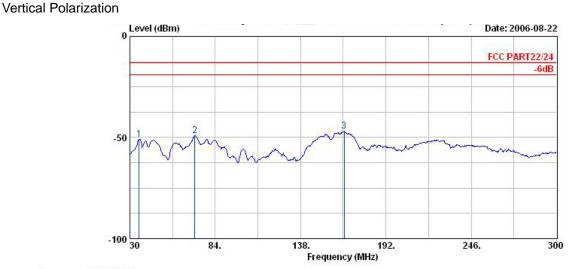
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

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Site : 03CH06-HY

LF-SPURIOUS VERTICAL Condition

EUT Smart Phone 120Vac/60Hz Power Model FG 681418

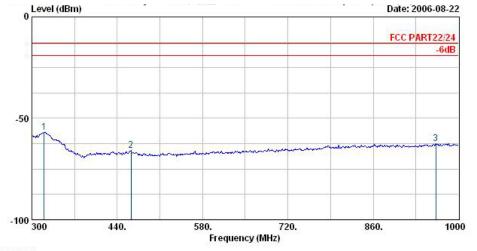
Memo PCS1900 Link Mode Ch661+Earphone+Adaptor

Memo +WLAN 11b TX Ch01

Plane : H

1 2 3

Freq	Level		Limit Line		Factor	Remark	
MHz	dBm	d₿	dBm	dBm	$-\overline{d}\overline{B}$	200000000000000000000000000000000000000	939
71.04	-50.91 -48.99 -47.02	-35.99	-13.00	-37.11	-11.88	Peak	



Site : Condition : : 03CH06-HY

LF-SPURIOUS VERTICAL

EUT Smart Phone Power 120Vac/60Hz Model FG 681418

PCS1900 Link Mode Ch661+Earphone+Adaptor +WLAN 11b TX Ch01 Memo

Memo

Plane

<u> </u>	Freq	Level		Limit Line			Remark	
	MHz	dBm	\overline{dB}	\overline{dBm}	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	020202020202020	909
	462.40	-56.79 -65.91 -62.47	-52.91	-13.00	-62.34	-3.58	Peak	

SPORTON International Inc.

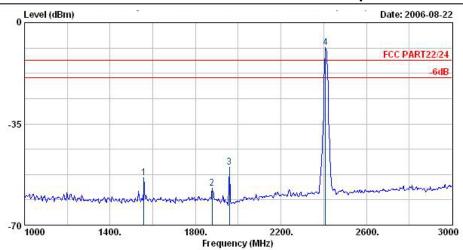
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

1 2 3

: UJU9QSTEAL000 FCC ID

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Report No.: FG681418-A



: 03CH06-HY Site

Condition : HF-SPURIOUS VERTICAL

Smart Phone Power 120Vac/60Hz Model

: FG 681418 : PCS1900 Link Mode Ch661+Earphone+Adaptor : +WLAN 11b TX Ch01 Memo

Memo

Plane

	Freq	Level		Limit Line		Factor	Remark
	МНг	dBm	$ \overline{d}\overline{B}$	dBm	dBm	<u>dB</u>)202020202020202020
1 2 3 4 @	1558.00 1878.00 1958.00 2408.00	-57.34 -49.95	-40.66		-56.94 -49.36	-0.70 -0.40 -0.60 1.87	Peak Peak

Remark:

1. #2: MS TCH Signal 2. #3: BS TCH Signal

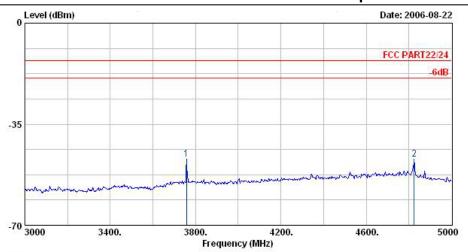
3. #4: WLAN Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UJU9QSTEAL000

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Site : 03CH06-HY

Condition HF-SPURIOUS VERTICAL EUT Smart Phone Power Model 120Vac/60Hz

FG 681418 Memo

PCS1900 Link Mode Ch661+Earphone+Adaptor Memo +WLAN 11b TX Ch01

Plane

1 2

		Remark	Factor	Read Level	Limit Line	Over Limit	Level	Freq
	12020202	202020202020	$-\overline{d}B$	dBm	d B m	$-\overline{dB}$	dBm	MHz
Date: 2006-08-2		Peak Peak	6.64 10.23	-53.64 -57.33	-13.00 -13.00	-34.01 -34.10	-47.10	3758.00 4824.00 Level (dBm)
Let Shake								
FCC PART22/24								
-6dB		3						
12								
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00. 70	660	0	620	1	580		5400	5000

Frequency (MHz)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Smart Phone

120Vac/60Hz Power Model FG 681418

PCS1900 Link Mode Ch661+Earphone+Adaptor Memo

: +WLAN 11b TX Ch01 : H Memo

Plane

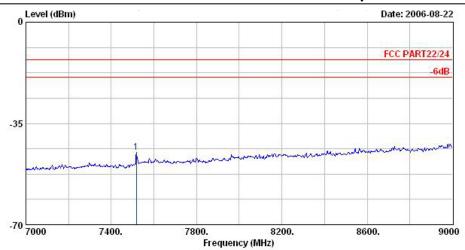
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: UJU9QSTEAL000 FCC ID

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Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

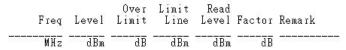
EUT: Smart Phone Power: 120Vac/60Hz Model: FG 681418

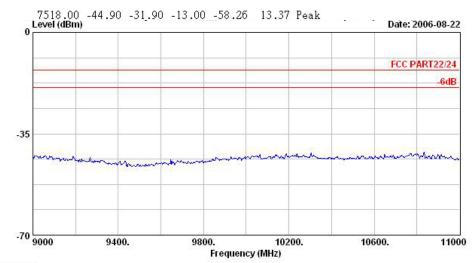
Memo : PCS1900 Link Mode Ch661+Earphone+Adaptor

Memo : +WLAN 11b TX Ch01

Plane : H

1





Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FG 681418

Memo : PCS1900 Link Mode Ch661+Earphone+Adaptor

Memo : +WLAN 11b TX Ch01

Plane : H

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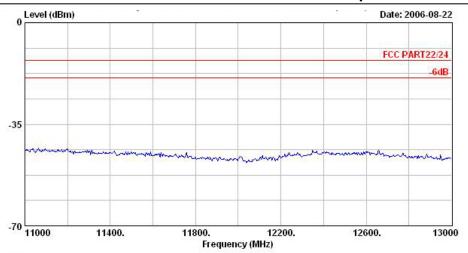
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Site

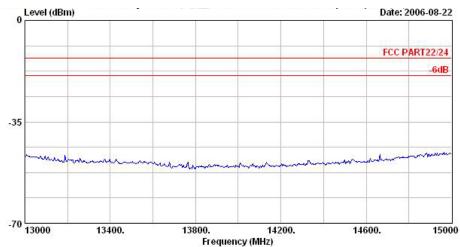
: 03CH06-HY : HF-SPURIOUS VERTICAL Condition :

Smart Phone EUT Power 120Vac/60Hz Model FG 681418

PCS1900 Link Mode Ch661+Earphone+Adaptor +WLAN 11b TX Ch01 Memo

Memo

Plane



Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

EUT Smart Phone Power 120Vac/60Hz Model

FG 681418 PCS1900 Link Mode Ch661+Earphone+Adaptor Memo

Memo +WLAN 11b TX Ch01

Plane

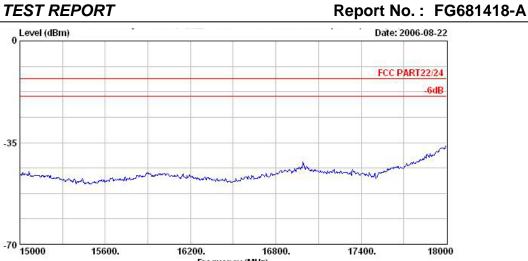
SPORTON International Inc.

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Frequency (MHz)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Smart Phone
Power : 120Vac/60Hz

Power Model FG 681418

PCS1900 Link Mode Ch661+Earphone+Adaptor +WLAN 11b TX Ch01 : H Memo

Memo

Plane

SPORTON International Inc.

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4.7 Frequency Stability (Temperature Variation)

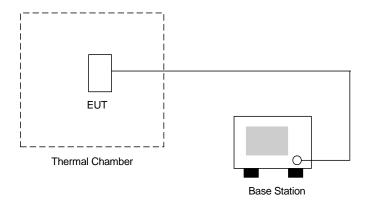
4.7.1 Measurement Instrument

As decribed 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 -10°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note 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 ws 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		
-10	-93	-0.05				
0	-36	-0.02				
10	-34	-0.02				
20	-38	-0.02	2.5	Passed		
30	-22	-0.01				
40	-37	-0.02				
50	-37	-0.02				

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4.8 Frequency Stability (Voltage Variation)

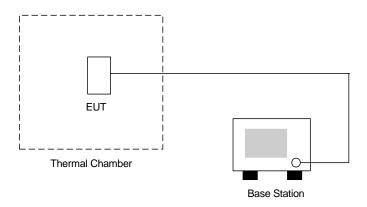
4.8.1 Measurement Instrument

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±5 °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	-24.0	-0.01			
BEP	-43.0	-0.02	2.5	Passed	
4.3	-27.0	-0.01			

Remark:

1. Normal Voltage=3.7V

2. Battery End Point (BEP)=3.3 V

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5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jun. 28, 2006	Jun. 27, 2007	Radiation (03CH06-HY)
Controller	СТ	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 22, 2004	Nov. 21, 2006	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 22, 2006	Feb. 21, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	Dec. 17, 2005	Dec. 16, 2006	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)

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6 Uncertainty Evaluation

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i			
	٩D	Probability	$u(x_i)$	
	dB	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	+0.39/-0.41	U-shaped	0.28	
combined standard uncertainty Uc(y)	1.27			
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54			

<u>Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)</u>

Contribution	Uncertainty of $^{\mathcal{X}_i}$		()	Ci	$Ci*u(x_i)$	
	dB	Probability Distribution	$u(x_i)$	Ci	$Ct u(x_i)$	
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 Γ 1= 0.197 Antenna VSWR Γ 2= 0.194 Uncertainty=20log(1- Γ 1* Γ 2* Γ 3)	+0.34/-0.35	U-shaped	0.244	1	0.244	
Combined standard uncertainty Uc(y)	2.36					
Measuring uncertainty for a level of confidence of 95% U=2Ue(y)	4.72					

END OF TEST REPORT

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