



# Variant FCC RF Test Report

**APPLICANT** : Honeywell International Inc.  
**EQUIPMENT** : Dolphin 9700 Mobile computer  
**BRAND NAME** : Honeywell  
**MODEL NAME** : Dolphin 9700  
**FCC ID** : HD59700LUP  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : Digital Spread Spectrum (DSS)

This is a variant report which is only valid together with the original test report. The product was received on Jul. 30, 2011 and completely tested on Aug. 26, 2011. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager



***SPORTON INTERNATIONAL INC.***  
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**SPORTON INTERNATIONAL INC.**

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FCC ID : HD59700LUP

Page Number : 1 of 26

Report Issued Date : Sep. 02, 2011

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## REVISION HISTORY



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	A8.5	Frequency Band Edges	≤ 20dBc	Pass	-
3.2	15.247(d)	A8.5	Transmitter Radiated Emission	15.209(a) & 15.247(d)	Pass	Under limit 7.09 dB at 118.83 MHz
3.3	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-



## 1 General Description

### 1.1 Applicant

**Honeywell International Inc.**

9680 Old Bailes Road, Fort Mill, SC 29707 USA

### 1.2 Manufacturer

**Honeywell International Inc.**

9680 Old Bailes Road, Fort Mill, SC 29707 USA

### 1.3 Feature of Equipment Under Test

Product Feature & Specification	
<b>Equipment</b>	Dolphin 9700 Mobile computer
<b>Brand Name</b>	Honeywell
<b>Model Name</b>	Dolphin 9700
<b>FCC ID</b>	HD59700LUP
<b>Tx/Rx Frequency Range</b>	2400 MHz ~ 2483.5 MHz
<b>Number of Channels</b>	79
<b>Carrier Frequency of Each Channel</b>	2402+n*1 MHz; n=0~78
<b>Channel Spacing</b>	1 MHz
<b>Maximum Output Power to Antenna</b>	Bluetooth (1Mbps) : 3.93 dBm (0.0025 W) Bluetooth EDR (2Mbps) : 1.70 dBm (0.0015 W) Bluetooth EDR (3Mbps) : 2.18 dBm (0.0017 W)
<b>Antenna Type</b>	PIFA Antenna with gain 0 dBi
<b>HW Version</b>	2.1
<b>SW Version</b>	01
<b>Type of Modulation</b>	Bluetooth (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK
<b>EUT Stage</b>	Production Unit

**Remark:**

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of Digital Spread Spectrum (DSS).
3. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



## 1.4 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL INC.	
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC/IC Registration No.</b>
	03CH06-HY	722060/4086B-1

## 1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC Public Notice DA 00-705
- ANSI C63.4-2003
- IC RSS-210 Issue 8

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

## 1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
3.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A



## 2 Test Configuration of Equipment Under Test

### 2.1 RF Output Power

Preliminary tests were performed in different data rate and recorded the RF output power in the following table:

Channel	Frequency	Bluetooth RF Output Power		
		Data Rate / Modulation		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
		1Mbps	2Mbps	3Mbps
Ch00	2402MHz	3.84 dBm	1.52 dBm	2.06 dBm
Ch39	2441MHz	3.93 dBm	1.70 dBm	2.18 dBm
Ch78	2480MHz	3.23 dBm	0.92 dBm	1.41 dBm

**Remark:**

1. The data rate was set in 1Mbps for all the test items due to the highest RF output power.
2. The EUT is programmed to transmit signals continuously for all testing.



## 2.2 Test Mode

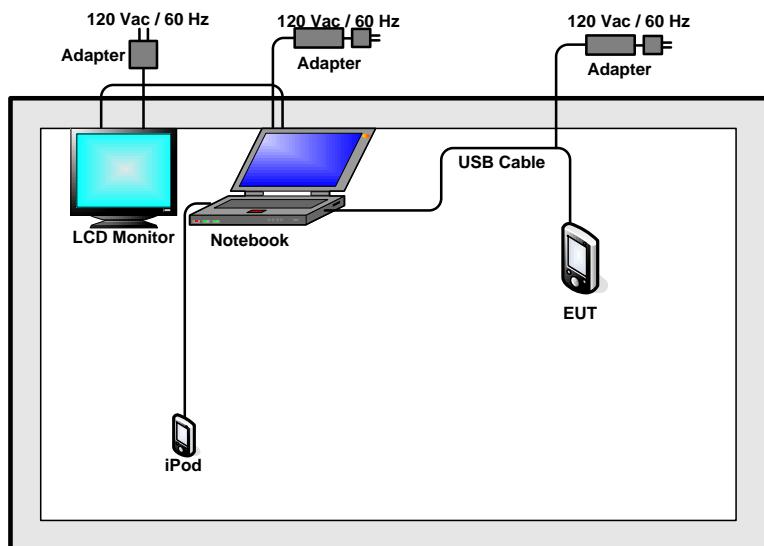
The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests, X, Y, Z in three orthogonal panels, were conducted to determine the final configuration from all possible combinations, laptop / tablet modes.

The following tables are showing the test modes as the worst cases and recorded in this report.

Test Cases				
Test Item	Data Rate / Modulation			
	Bluetooth 1Mbps GFSK	Bluetooth EDR 2Mbps $\pi/4$ -DQPSK	Bluetooth EDR 3Mbps 8-DPSK	
<b>Radiated TCs</b>	Mode 1: CH78_2480 MHz  (EUT with Keypad 2, Scanner 1 and RS232 Cable 2)		N/A	N/A
<b>Remark:</b> For radiated TCs, the data rate was set in 1Mbps due to the highest RF output power; only the data of these modes was reported.				

## 2.3 Connection Diagram of Test System



## 2.4 RF Utility

For Bluetooth function, the RF utility, "MyLabToolfor8688BT-08101-1.exe" was installed in EUT which was programmed in order to make the EUT into the engineering modes to contact with Bluetooth base station for transmitting and receiving signals continuously.



### **3 Test Result**

#### **3.1 Band Edges Measurement**

##### **3.1.1 Limit of Band Edges**

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

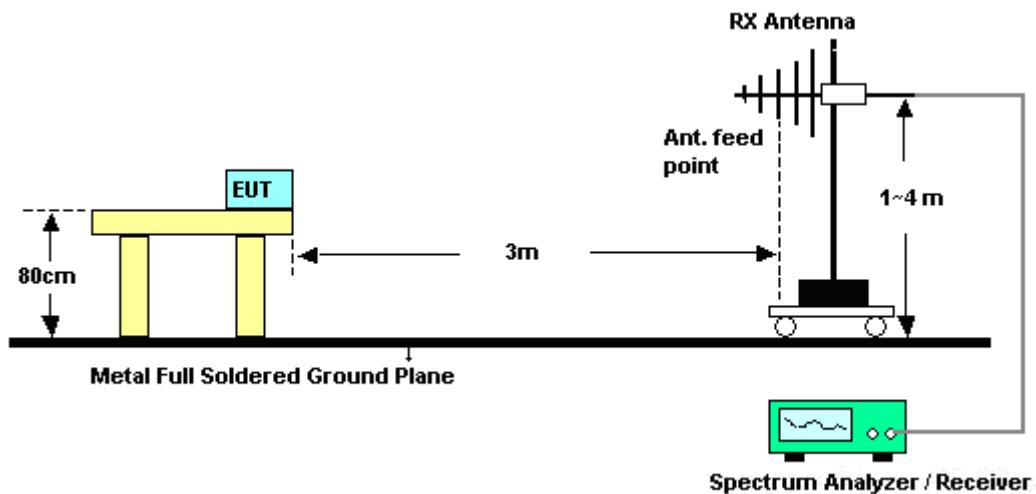
##### **3.1.2 Measuring Instruments**

See list of measuring instruments of this test report.

##### **3.1.3 Test Procedures**

1. The testing follows the guidelines in ANSI C63.4-2003 and FCC Public Notice DA 00-705 Measurement Guidelines.
2. RF antenna conducted test: Set RBW = 300kHz, Video bandwidth (VBW)  $\geq$  RBW. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 300k Hz RBW. Note: If the device complies with the use of power option 2 the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Applies to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 1MHz, Sweep: Auto for Peak; set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto for Average. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation. See FCC Section 15.35(b) and (c).
4. In case the emission is fail due to the used RBW / VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

### 3.1.4 Test Setup





## 3.1.5 Test Result of Radiated Band Edges

Test Mode :	Mode 1			Temperature :		23~24°C		
Test Channel :	78			Relative Humidity :		45~46%		
				Test Engineer :		Kai Wang		

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.5	60.56	-13.44	74	57.43	31.98	5.52	34.37	100	279	Peak
2483.5	46.03	-7.97	54	42.9	31.98	5.52	34.37	100	279	Average

Summary results of marker-delta method:

Test mode	Maximum field strength of the fundamental emission ( dB $\mu$ V/m )	Delta Result ( dB )	Average Result ( dB $\mu$ V/m )	Average Limit ( dB $\mu$ V/m )	Margin ( dB )	Result
Single Carrier Mode	99	53.5	45.5	54	-8.5	Pass
Hopping Mode	99	52.97	46.03	54	-7.97	Pass

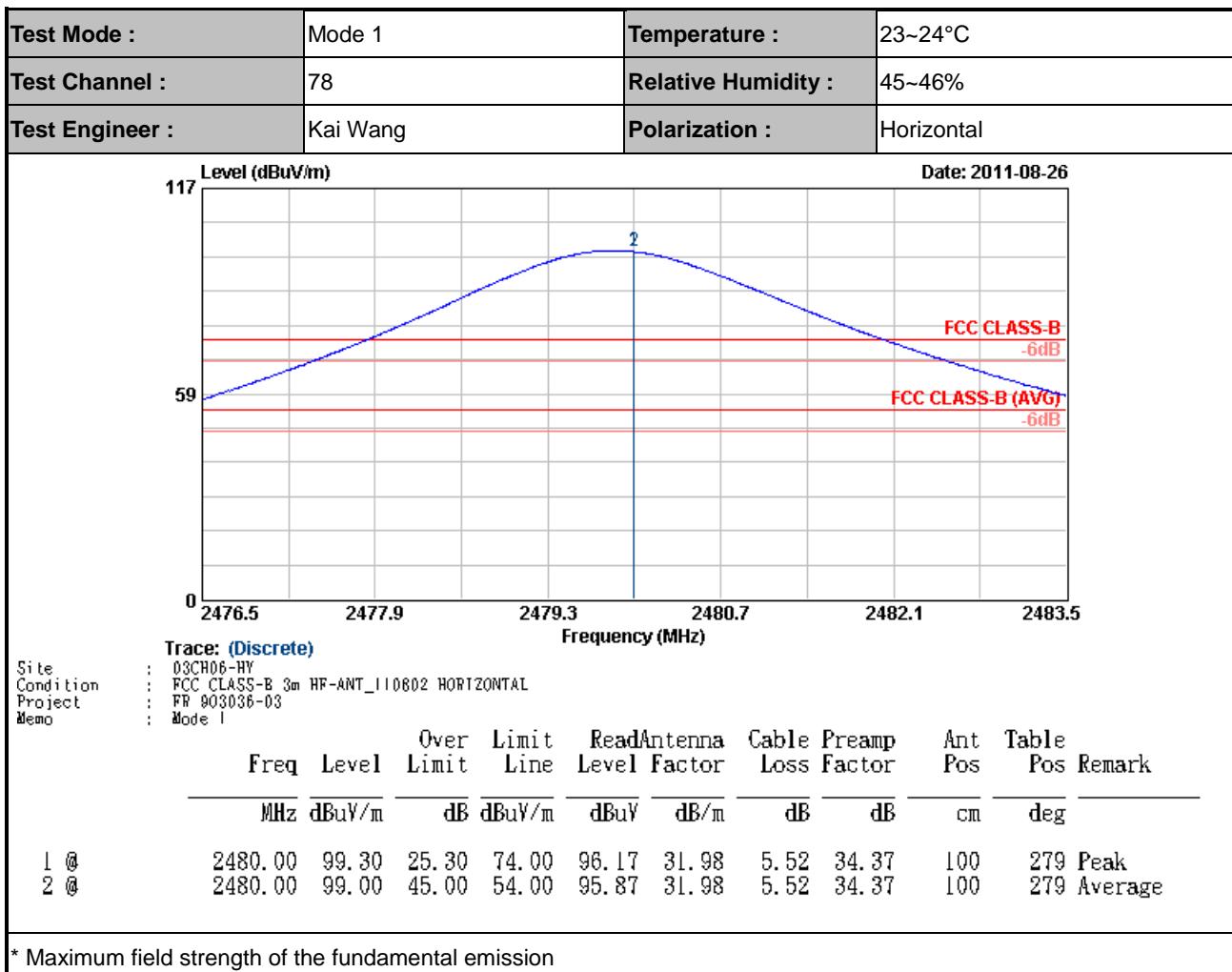
Note : Average result = Maximum field strength – Delta result

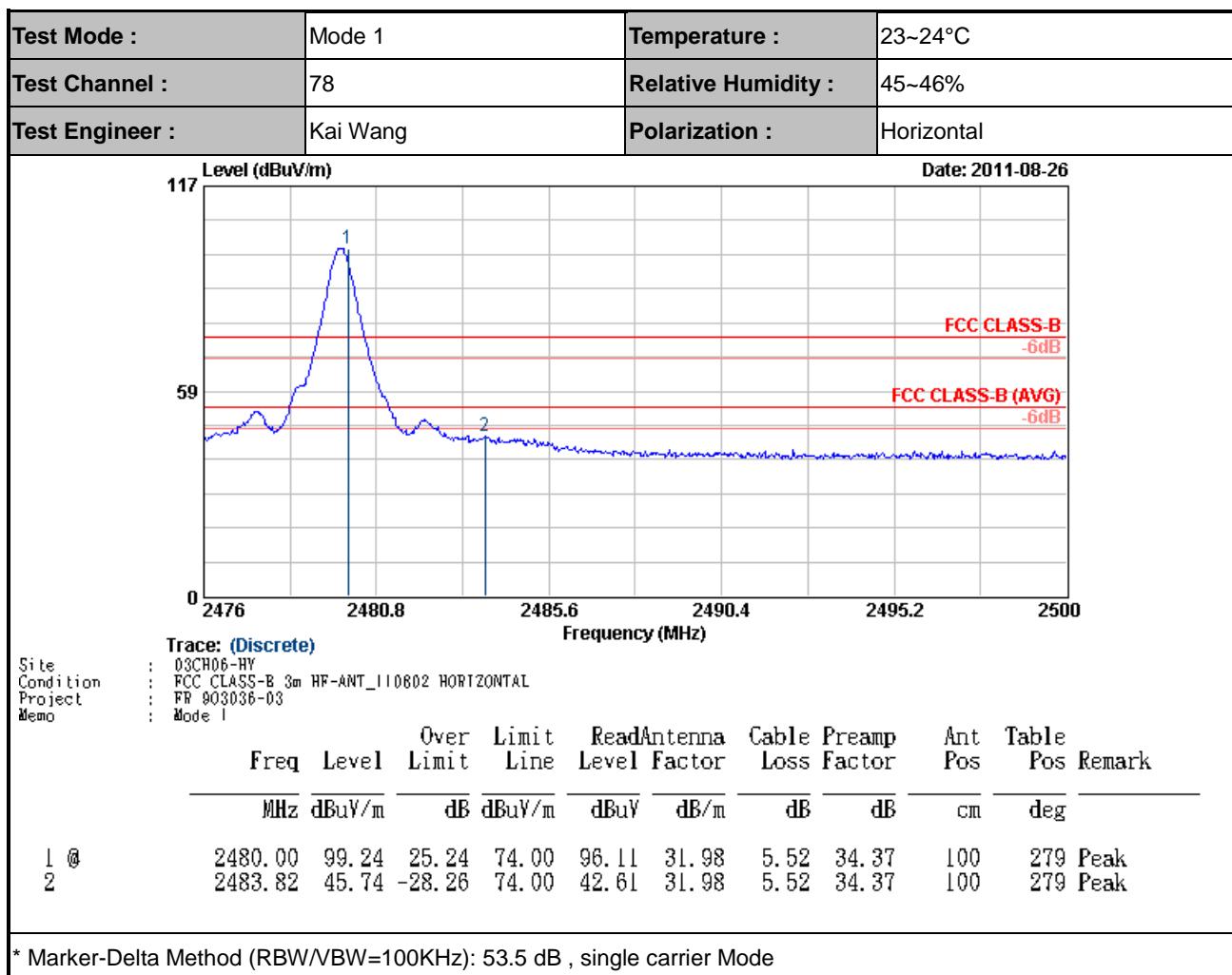
ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.5	55.64	-18.36	74	52.51	31.98	5.52	34.37	100	22	Peak
2483.5	42.46	-11.54	54	39.33	31.98	5.52	34.37	100	22	Average

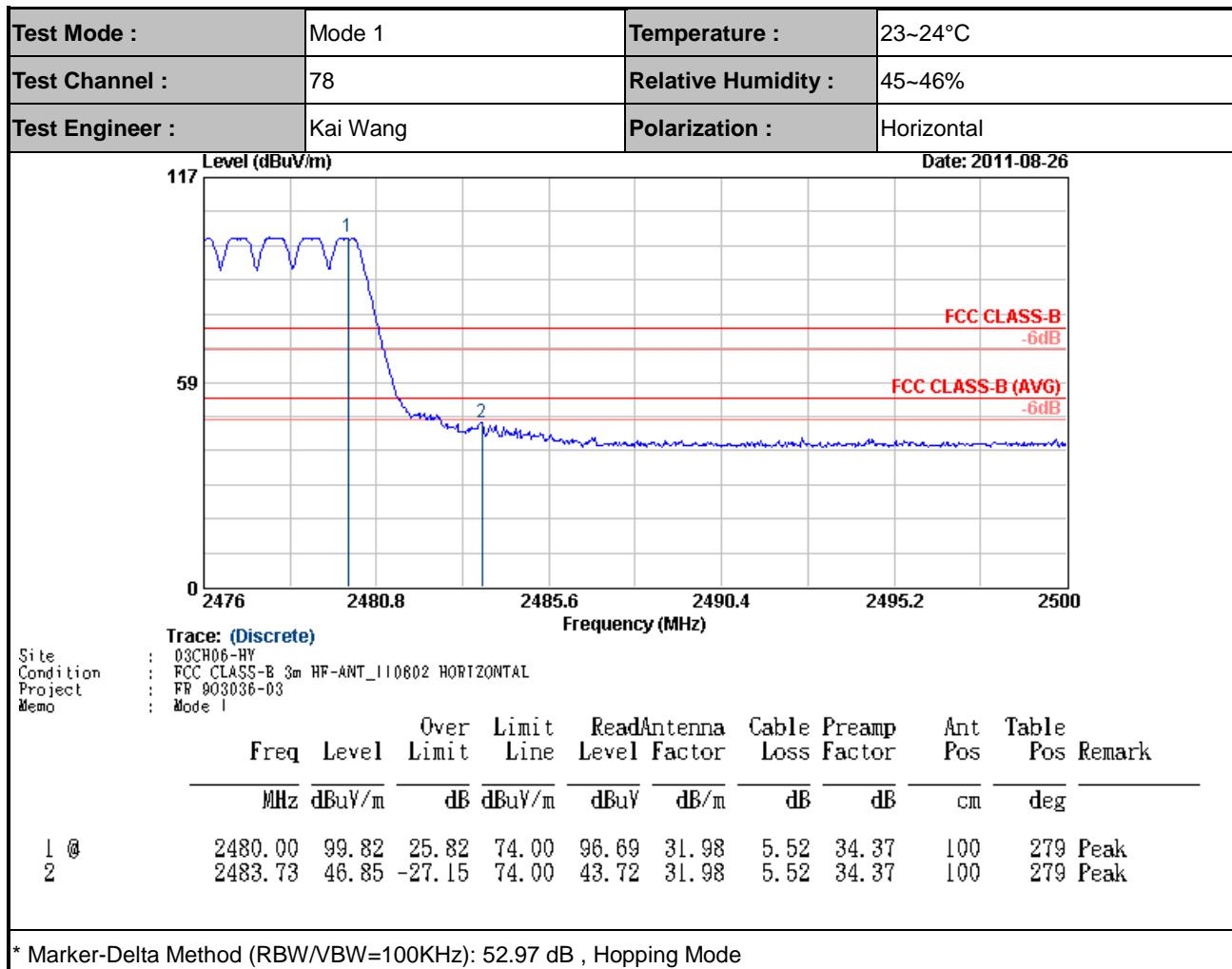
Summary results of marker-delta method:

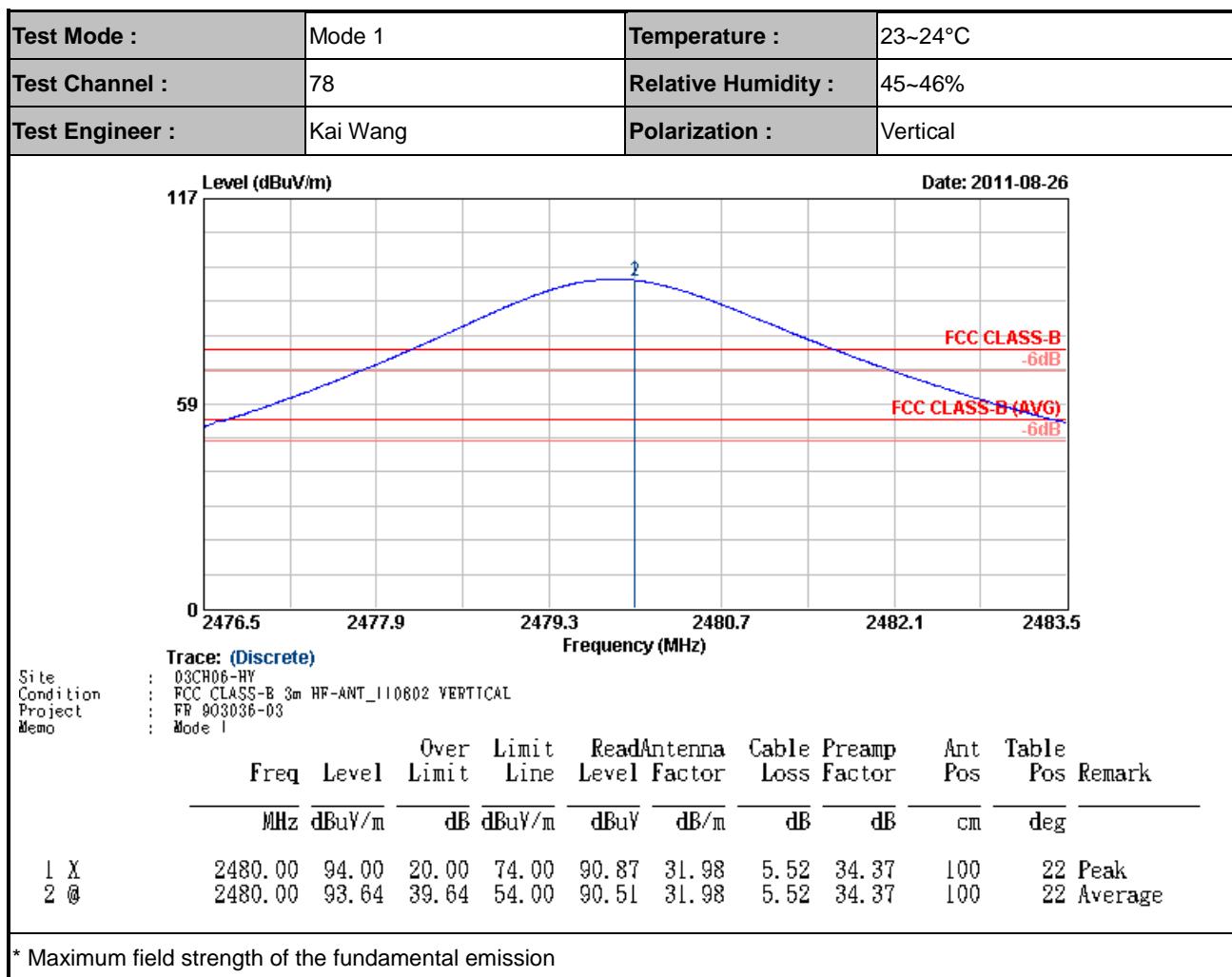
Test mode	Maximum field strength of the fundamental emission ( dB $\mu$ V/m )	Delta Result ( dB )	Average Result ( dB $\mu$ V/m )	Average Limit ( dB $\mu$ V/m )	Margin ( dB )	Result
Single Carrier Mode	93.64	51.18	42.46	54	-11.54	Pass
Hopping Mode	93.64	51.86	41.78	54	-12.22	Pass

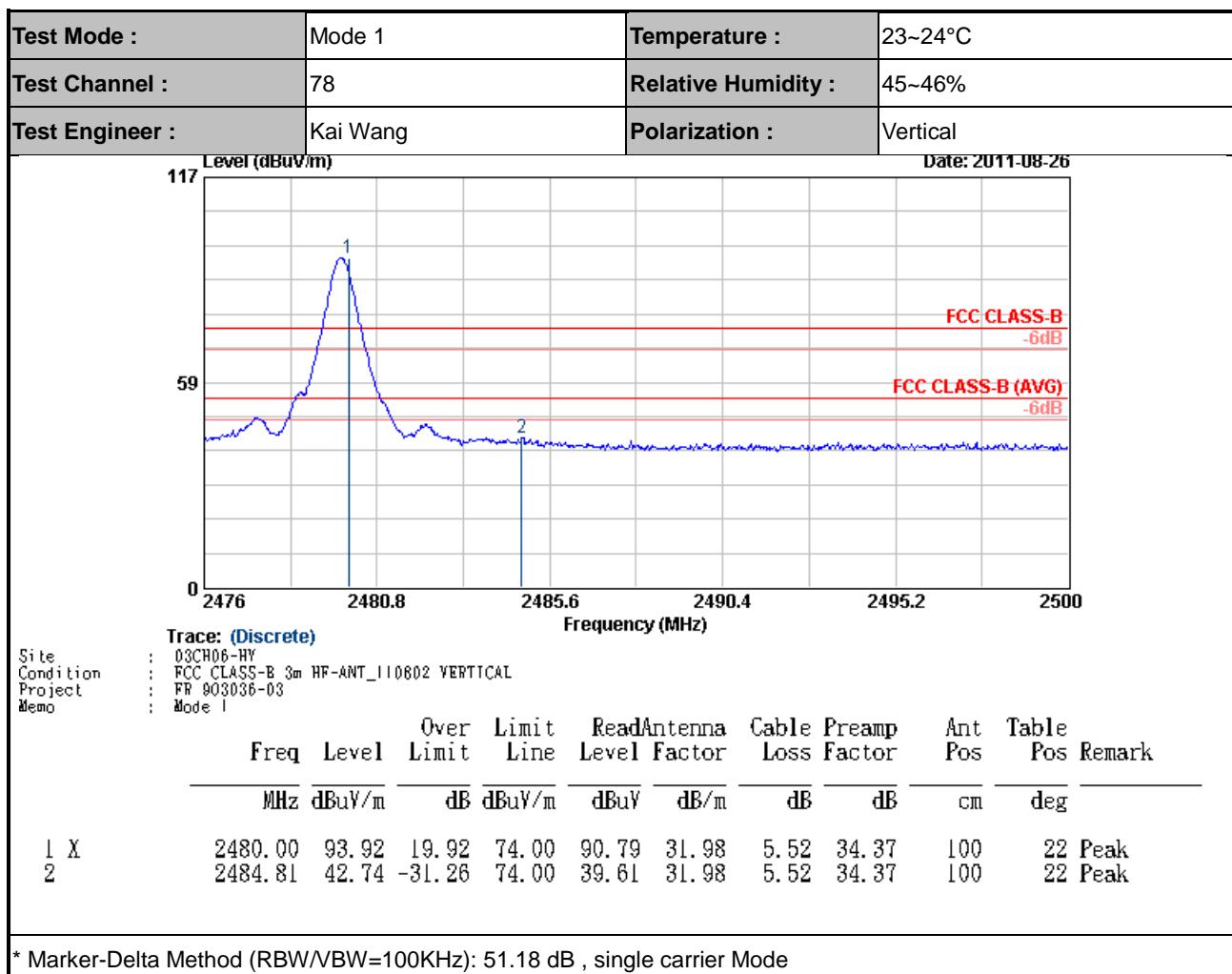
Note : Average result = Maximum field strength – Delta result

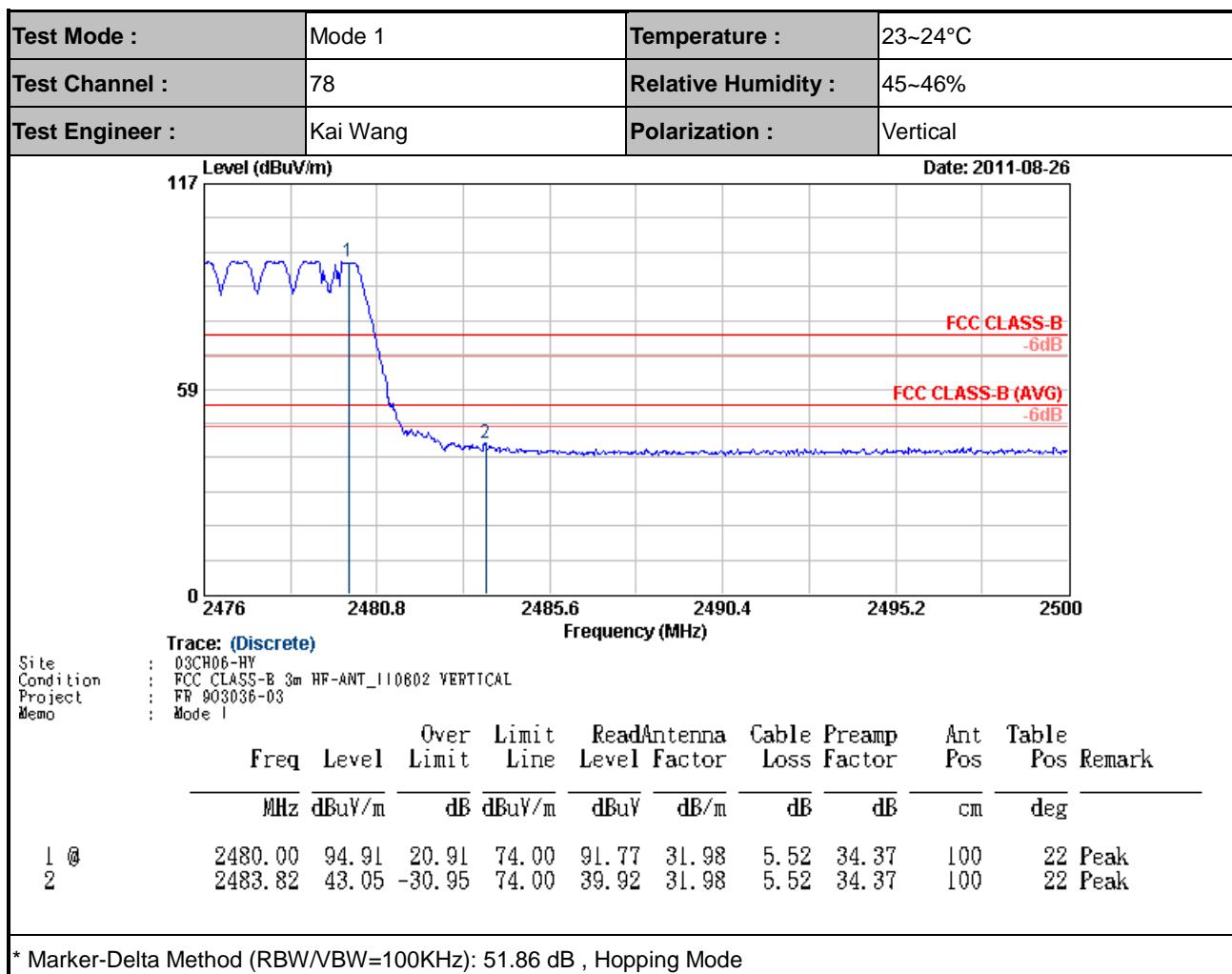














## 3.2 Radiated Emission Measurement

### 3.2.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

### 3.2.2 Measuring Instruments

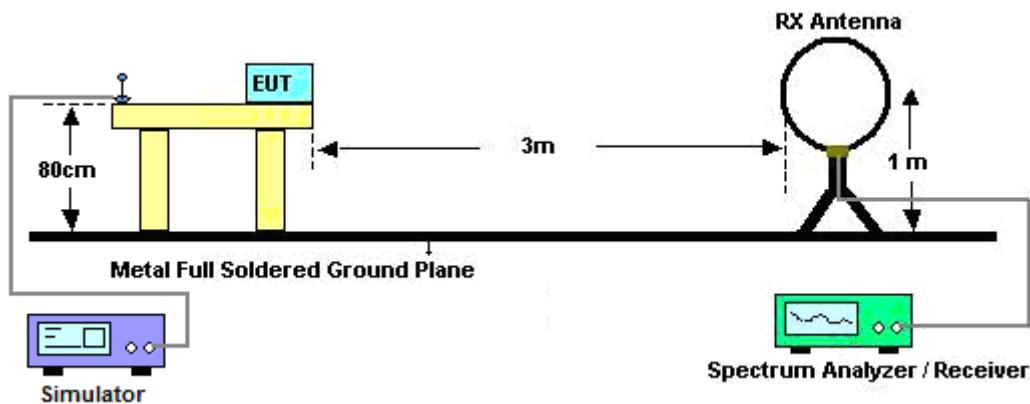
See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

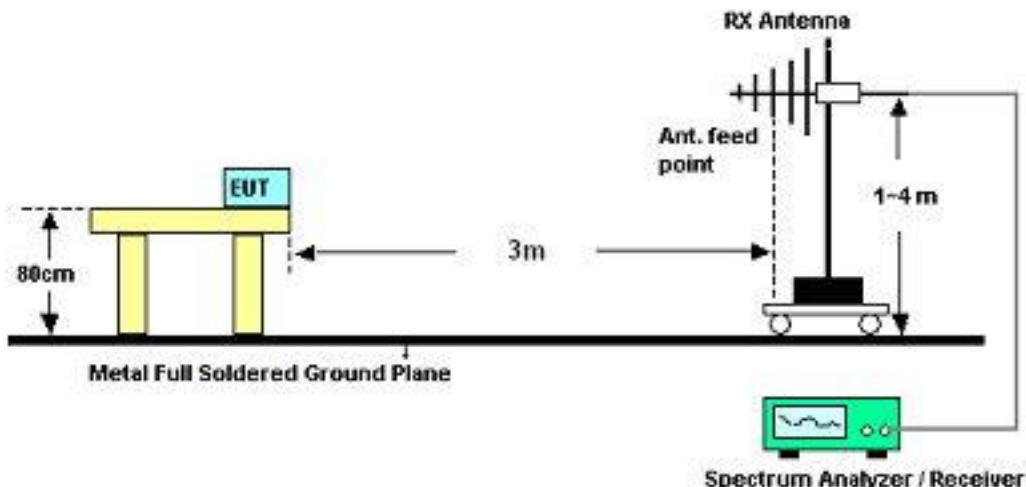
1. The testing follows the guidelines in FCC Public Notice DA 00-705 Measurement Guidelines.
2. Use the following spectrum analyzer settings:
  - (1) Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
  - (2) Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.  
Distance extrapolation factor =  $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$  (dB)
1. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.
2. Measured average value for the peak value is greater than 54 dB<sub>UV</sub>/m

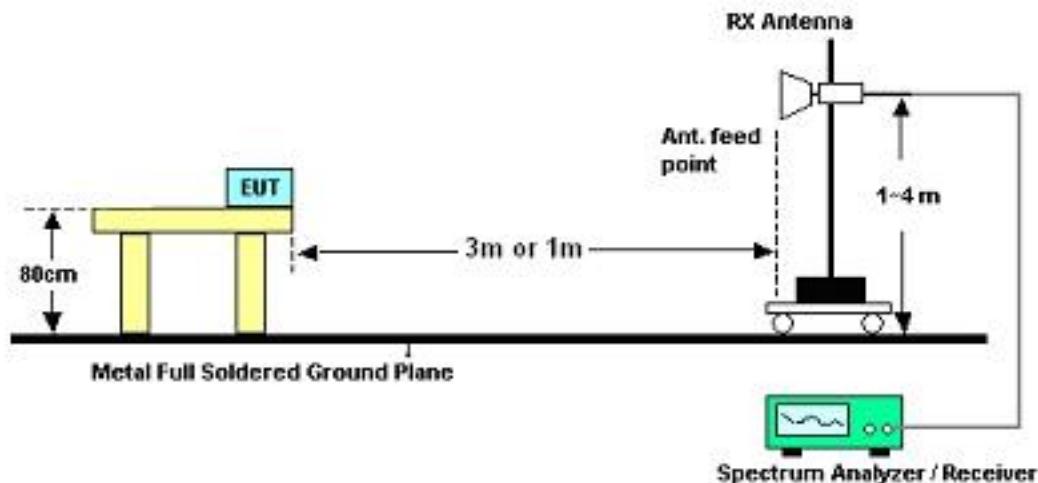
### 3.2.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



**For radiated emissions above 1GHz****3.2.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)**

<b>Test Engineer :</b>	Kai Wang	<b>Temperature :</b>	23~24°C	
		<b>Relative Humidity :</b>	45~46%	
Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

**Note:**

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

3.2.6 Test Result of Radiated Emission (30 MHz ~ 10<sup>th</sup> Harmonic)

Test Mode :	Mode 1		Temperature :		23~24°C				
Test Channel :	78		Relative Humidity :		45~46%				
Test Engineer :	Kai Wang		Polarization :		Horizontal				
Remark :	2480 MHz is Fundamental Signals which can be ignored.								

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
118.83	29.95	-13.55	43.5	48.17	12.16	1.33	31.71	100	48	Peak
138.54	29.78	-13.72	43.5	48.6	11.44	1.44	31.7	-	-	Peak
156.09	29.88	-13.62	43.5	49.75	10.33	1.47	31.67	-	-	Peak
329.4	26.14	-19.86	46	41.42	14.15	2.16	31.59	-	-	Peak
672.4	23.15	-22.85	46	32.66	19.33	3.15	31.99	-	-	Peak
906.9	26.31	-19.69	46	32.42	21.66	3.76	31.53	-	-	Peak
2366	46.39	-27.61	74	43.56	31.86	5.37	34.4	100	279	Peak
2366	33.58	-20.42	54	30.75	31.86	5.37	34.4	100	279	Average
2480	99.01	-	-	95.88	31.98	5.52	34.37	100	279	Peak
2480	99	-	-	95.87	31.98	5.52	34.37	100	279	Average
2483.5	60.56	-13.44	74	57.43	31.98	5.52	34.37	100	279	Peak
2483.5	46.03	-7.97	54	42.9	31.98	5.52	34.37	100	279	Average



<b>Test Mode :</b>	Mode 1	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	78	<b>Relative Humidity :</b>	45~46%
<b>Test Engineer :</b>	Kai Wang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2480 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
118.83	36.41	-7.09	43.5	54.63	12.16	1.33	31.71	100	214	Peak
156.09	30.72	-12.78	43.5	50.59	10.33	1.47	31.67	-	-	Peak
172.83	28.08	-15.42	43.5	48.55	9.64	1.57	31.68	-	-	Peak
519.8	25.85	-20.15	46	36.84	18.09	2.74	31.82	-	-	Peak
640.9	25.71	-20.29	46	35.42	19.26	3.03	32	-	-	Peak
901.3	26.79	-19.21	46	32.98	21.63	3.76	31.58	-	-	Peak
2374	45.6	-28.4	74	42.75	31.88	5.37	34.4	100	22	Peak
2374	33.46	-20.54	54	30.61	31.88	5.37	34.4	100	22	Average
2480	93.83	-	-	90.7	31.98	5.52	34.37	100	22	Peak
2480	93.64	-	-	90.51	31.98	5.52	34.37	100	22	Average
2483.5	55.64	-18.36	74	52.51	31.98	5.52	34.37	100	22	Peak
2483.5	42.46	-11.54	54	39.33	31.98	5.52	34.37	100	22	Average



### **3.3 Antenna Requirements**

#### **3.3.1 Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

#### **3.3.2 Antenna Connected Construction**

The antennas type used in this product is PIFA Antenna without connector and it is considered to meet antenna requirement.

#### **3.3.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
System Simulator	R&S	CMU200	117995	N/A	Jul. 28, 2011	Jul. 27, 2012	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP40	100055	9kHz~40GHz	Jun. 13, 2011	Jun. 12, 2012	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 13, 2010	Sep. 12, 2011	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0846202	N/A	Sep. 14, 2010	Sep. 13, 2011	Conducted (TH02-HY)
Power Meter	Agilent	E4416A	GB412923 44	N/A	Feb. 18, 2011	Feb. 17, 2012	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D35P	TBN-9307 01	N/A	Jul. 27, 2011	Jul. 26, 2012	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP40	100057	9KHz-40GHz	Oct. 25, 2010	Oct. 24, 2011	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/00 3	20MHz-1000MHz	May 10, 2011	May 09, 2012	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Oct. 31, 2010	Oct. 30, 2011	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Aug. 01, 2011	Jul. 31, 2012	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Training Research	AH-0801	95119	8GHz~18GHz	Oct. 20, 2010	Oct. 19, 2011	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 251	15GHz- 40GHz	Oct. 18, 2010	Oct. 17, 2011	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A019 17	1GHz- 26.5GHz	Apr. 14, 2011	Apr. 13, 2012	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9KHz~1GHz	Apr. 14, 2011	Apr. 13, 2012	Radiation (03CH06-HY)



## 5 Uncertainty of Evaluation

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

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	+0.39 / -0.41	U-Shape	0.28
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>1.27</b>		
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>2.54</b>		

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Contribution	Uncertainty of $X_i$		$u(X_i)$	$C_i$	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	±0.10	Normal (k=2)	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 = $20\log(1-\Gamma 1 * \Gamma 2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>4.72</b>				



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP9O3036-03 as below.



## Appendix C. Product Equality Declaration

**Honeywell**

Honeywell International Inc  
Honeywell Scanning and Mobility  
9680 Old Bailes Road  
Fort Mill, SC 29707 USA

Date: September 1, 2011

### Product Equality Declaration

We, Honeywell International Inc., declare on our sole responsibility for the product of Dolphin 9700 (model name) as below:

The difference of Dolphin 9700 is:

1. Change the battery cell and capacity
2. Change the adapter
3. Change Applicant and Manufacturer address

Except Listings above, the others are the same as previous version.

Should you have any questions or comments regarding this matter, please have my best attention.

#### Contact Person: Michael Robinson

Sincerely,

Product Compliance - Imaging Systems  
Michael.Robinson3@honeywell.com  
(315) 554-6000 telephone USA

Michael Robinson  
Honeywell International Inc  
Honeywell Scanning and Mobility  
700 Visions Drive PO Box 208  
Skaneateles Falls, NY 13153-0208 USA



## **Appendix D. Original Report**

Please refer to Sporton report number FR9O3036B as below.