

# FCC CERTIFICATION COMPLIANCE REPORT

Test Report No. : EM/2010/10101-01  
Applicant : Dynastream Innovations  
Address of Applicant : 228 River Avenue, Cochrane AB, Canada, T4C 2C1  
Manufacturer : Garmin Taiwan  
Address of Manufacturer : No. 68 Jangshu 2nd Road shirj, Taipei county, Taiwan

**Equipment Under Test (EUT) :**

Name : 2.4G USB Stick  
Brand Name : Dynastream  
Model No. : USB2  
Added Model(s) : N/A

Standards : FCC Part 15:2008, Subpart B, Class B

Date of Receipt : Jan. 18, 2010  
Date of Test : Jan. 18 ~ 22, 2010  
Date of Issue : May. 05, 2010

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

**Remarks :**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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**Test By:****Date**

May. 05, 2010

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**Mark Liu(Engineer)****Prepared By:****Date**

May. 05, 2010

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**Alex Chen (Project-Engineer)****Approved By****Date**

May. 05, 2010

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**Ion Lin(Assistant Manager)**

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## 1. General Information

### 1.1 Applicant & Manufacturer Information

Applicant : Dynastream Innovations

Address of Applicant : 228 River Avenue, Cochrane AB, Canada, T4C 2C1

Manufacturer : Garmin Taiwan

Address of Manufacturer : No. 68 Jangshu 2nd Road shirj, Taipei county, Taiwan

### 1.2 General Description of EUT

Name : 2.4G USB Stick

Brand Name : Dynastream

Model No. : USB2

Added Model(s) : N/A

Model Difference : N/A

### 1.3 Details of EUT

Tested Power Supply : From PC

Modes/Function : Operation Mode.

Worst case : Operation Mode..

### 1.4 Operation Procedure

1. Set up EUT with support units and turn on the power of all equipment.
2. Pre-test the EUT in all modes by each model, then figure the worst case out.
3. Tests under the normal operation pattern.

### 1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Notebook	IBM	T43	L3LKVL9
Printer	HP	DJ3820	CN34L181B1
USB Mouse	HP	M-UAE96	390938-001

### 1.6 Modification List

No modification by SGS Taiwan Electronics & Communication Laboratory.

### 1.7 Cable List

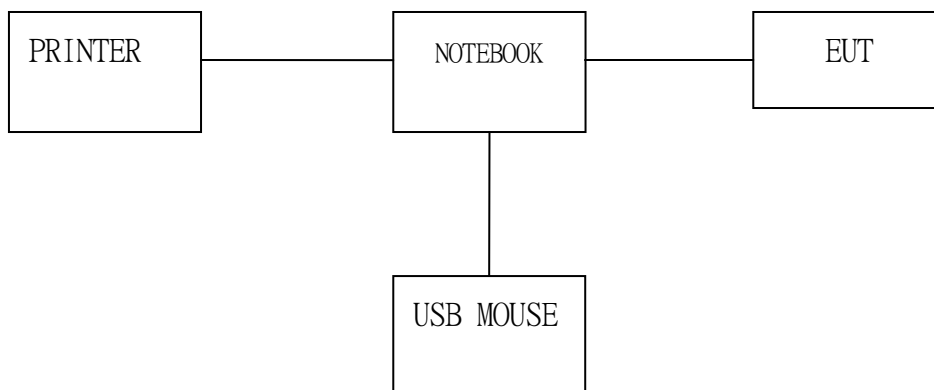
Cable Type	Length	Shield
N/A	N/A	N/A

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## 1.8 Test Set-Up Configuration



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## 1.9 Measurement Procedure

Conducted Emission Testing was performed according ANSI C63.4:2003 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2003 at the open field test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 10meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

## 1.10 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No Deviation

## 1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Polar.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B/CISPR 22	Conducted Emission	PASS	Line	3.1200	-11.91 (QP)
			Neutral	3.1200	-11.41(QP)
	Radiated Emission	PASS	Ver.	116.2500	-5.26(QP)

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## 2. Radio Disturbance

### 2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

### 2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : 30 MHz – 40 GHz

### 2.3 Limits Of Conducted And Radiated Emission

#### 2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B/CISPR 22

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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### 2.3.2 Limit Of Radiated Emissions Of FCC Part 15, Subpart B/CISPR 22

#### FCC Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV) (at 3m)		Class B (dBuV) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

#### CISPR Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

- Detector Function : Peak , Average – Class A

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	56	76
3 to 6	60	80

- Detector Function : Peak , Average – Class B

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	50	70
3 to 6	54	74

Note : The lower limit applies at the transition frequency.

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## 2.4. Test of Conducted Emission

### 2.4.1 Test Equipments

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 15, 2009	Sep. 14, 2010
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 28, 2009	Nov. 27, 2010
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Feb. 01, 2010	Feb. 01, 2011
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Feb. 01, 2010	Feb. 01, 2011

### 2.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory  
No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

### 2.4.3 Operating Environment

Temperature : 23 degree C                      Humidity : 56 %RH  
Atmospheric Pressure : 992 mBar

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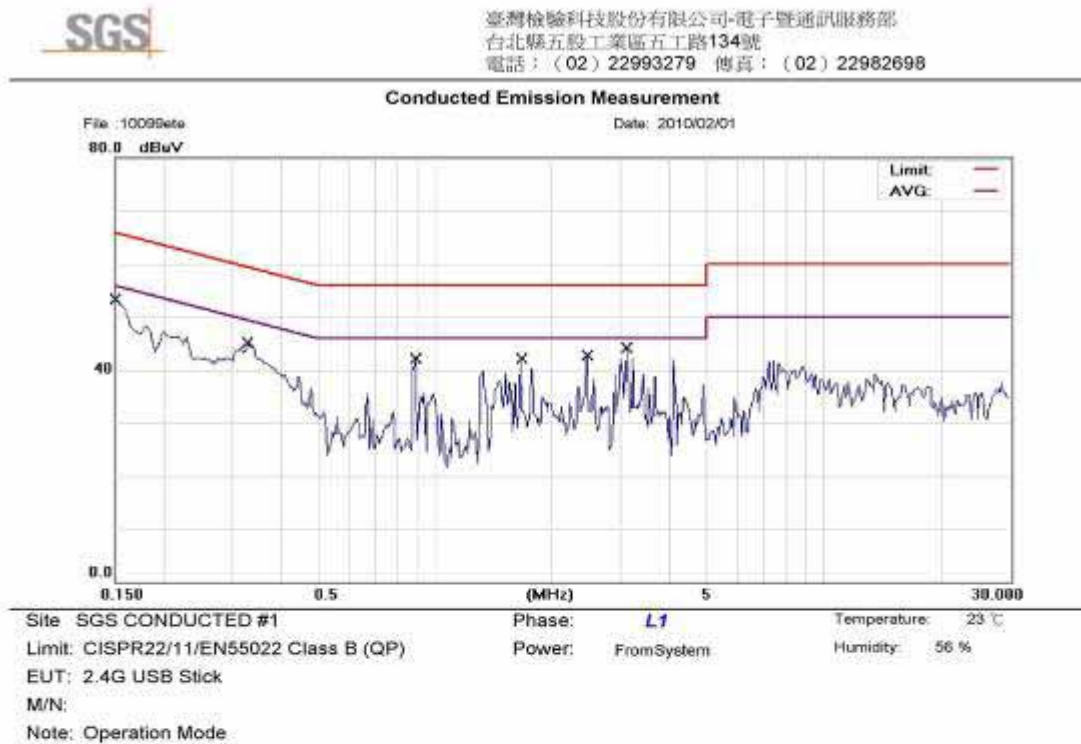
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## 2.4.4 Measurement Data

L:



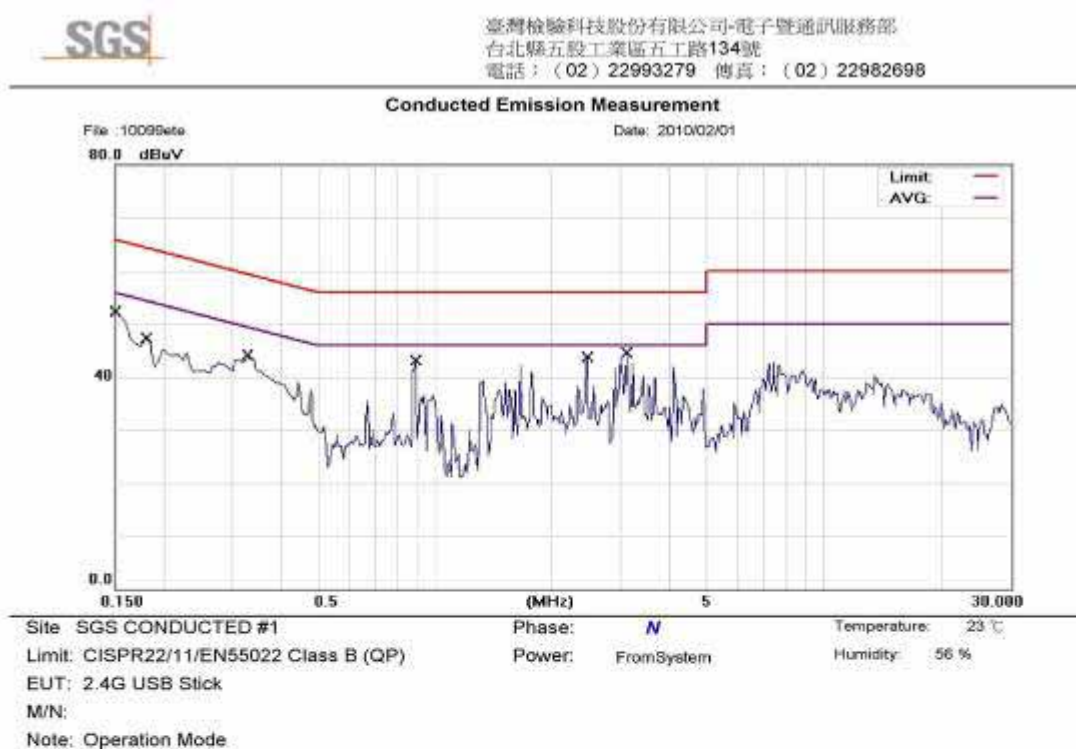
No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	53.14	0.10	53.24	66.00	-12.76	QP	
2		0.3300	45.07	0.06	45.13	59.45	-14.32	QP	
3		0.8900	42.09	0.06	42.15	56.00	-13.85	QP	
4		1.6700	41.94	0.08	42.02	56.00	-13.98	QP	
5		2.4600	42.68	0.09	42.77	56.00	-13.23	QP	
6	*	3.1200	43.99	0.10	44.09	56.00	-11.91	QP	

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N:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	52.14	0.10	52.24	66.00	-13.76	QP	
2		0.1800	47.17	0.08	47.25	64.49	-17.24	QP	
3		0.3300	44.07	0.06	44.13	59.45	-15.32	QP	
4		0.8900	43.09	0.06	43.15	56.00	-12.85	QP	
5		2.4600	43.68	0.09	43.77	56.00	-12.23	QP	
6	*	3.1200	44.49	0.10	44.59	56.00	-11.41	QP	

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Instruments

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100335	Feb. 05, 2009	Feb. 04, 2010
RF-Amplifier	Agilent	8447D	2944A09469	Nov. 28, 2009	Nov. 27, 2010
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	Mar. 11, 2009	Mar. 10, 2010
Coaxial Cables	N/A	OS RE Cable	N/A	Nov. 28, 2009	Nov. 27, 2010
Antenna Master	HD GmbH	MA 240	240/515	N/A	N/A
Turn Table	HD GmbH	DT420	420/542	N/A	N/A
Controller	HD GmbH	HD 100	100/589	N/A	N/A

#### Above 1G

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 15, 2009	Sep. 14, 2010
Spectrum Analyzer	ROHDE&SCHWARZ	FSP 40	100034	Feb. 12, 2009	Feb. 11, 2010
Broadband Antenna	SCHWAZBECK	VULB9160	3136	Nov. 19, 2009	Nov. 18, 2010
RF-Amplifier	Agilent	8447D	1937A02834	Nov. 28, 2009	Nov. 27, 2010
Antenna Master	HD GmbH	MA240-N	240/657	N/A	N/A
Turn Table	HD GmbH	DS420	420/542	N/A	N/A
Controller	HD GmbH	HD 100	100/803	N/A	N/A
CCD Video Camera System	N/A	VCS-04	N/A	N/A	N/A
Color Monitor	N/A	CM-314DH	N/A	N/A	N/A

### 2.5.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory  
No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

### 2.5.3 Operating Environment

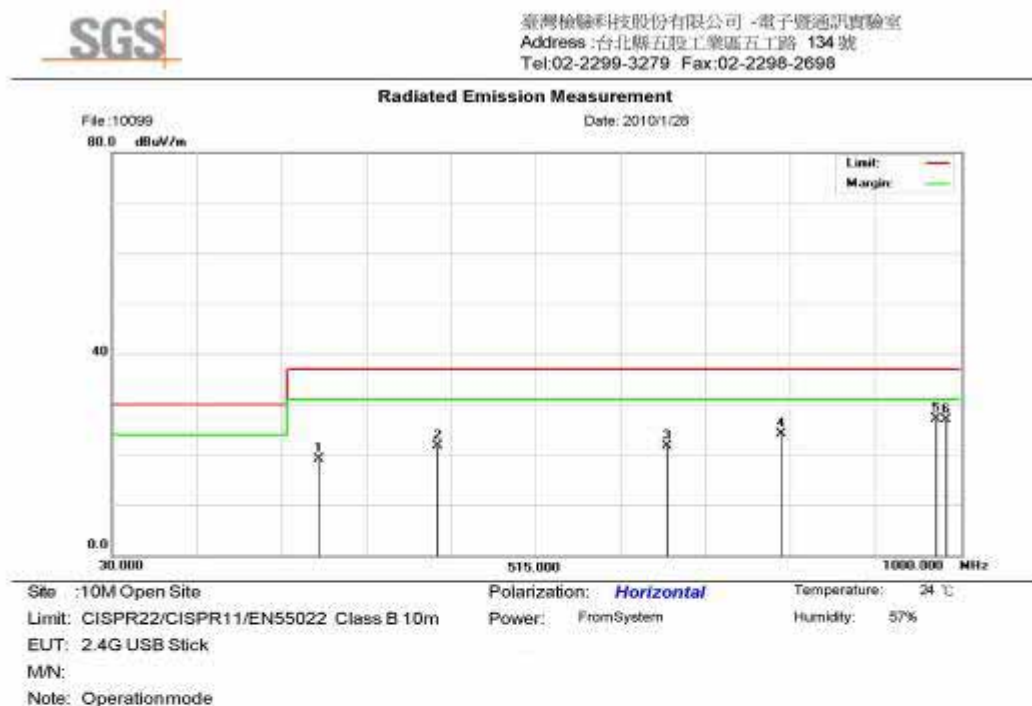
Temperature : 24 degree C      Humidity : 57 %RH  
Atmospheric Pressure : 996 mBar

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## 2.5.4 Measurement Data

Date of Test : Jan. 28, 2010



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		285.5000	40.08	-20.98	19.08	37.00	-17.92	QP	
2		402.5500	40.83	-19.09	21.74	37.00	-15.26	QP	
3		665.2500	32.01	-10.24	21.77	37.00	-15.23	QP	
4		796.2300	33.42	-9.26	24.16	37.00	-12.84	QP	
5	*	972.7200	33.11	-5.99	27.12	37.00	-9.88	QP	
6		984.6200	32.43	-5.49	26.94	37.00	-10.06	QP	

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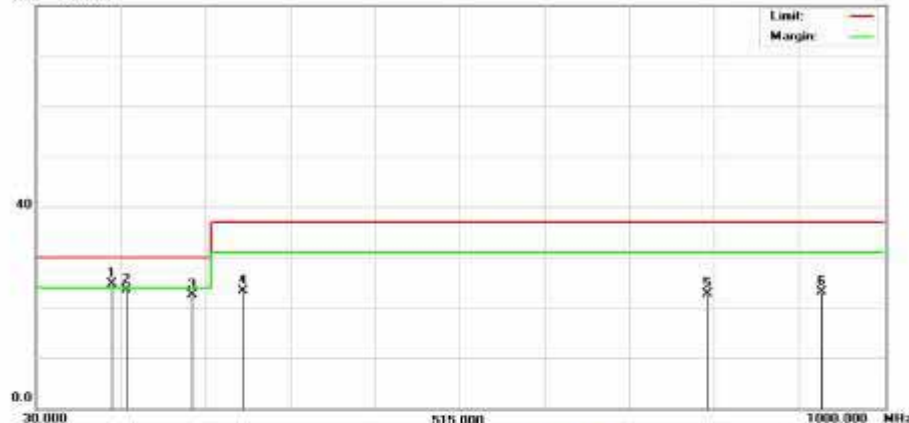
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Address : 台北縣五股工業區五工路 134 號  
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## Radiated Emission Measurement

File: 10099

Date: 2010/1/28

80.0 dBuV/m



Site : 10M Open Site

Polarization: **Vertical**

Temperature: 24 °C

Limit: CISPR22/CISPR11/EN55022 Class B 10m

Power: From System

Humidity: 57%

EUT: 2.4G USB Stick

MN:

Note: Operation mode

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	116.2500	43.63	-18.89	24.74	30.00	-5.26	QP	
2		134.0800	39.43	-15.85	23.58	30.00	-6.42	QP	
3		208.5500	40.00	-17.42	22.58	30.00	-7.42	QP	
4		286.3700	39.25	-15.89	23.36	37.00	-13.64	QP	
5		796.8500	32.38	-9.58	22.80	37.00	-14.20	QP	
6		928.2200	31.35	-8.26	23.09	37.00	-13.91	QP	

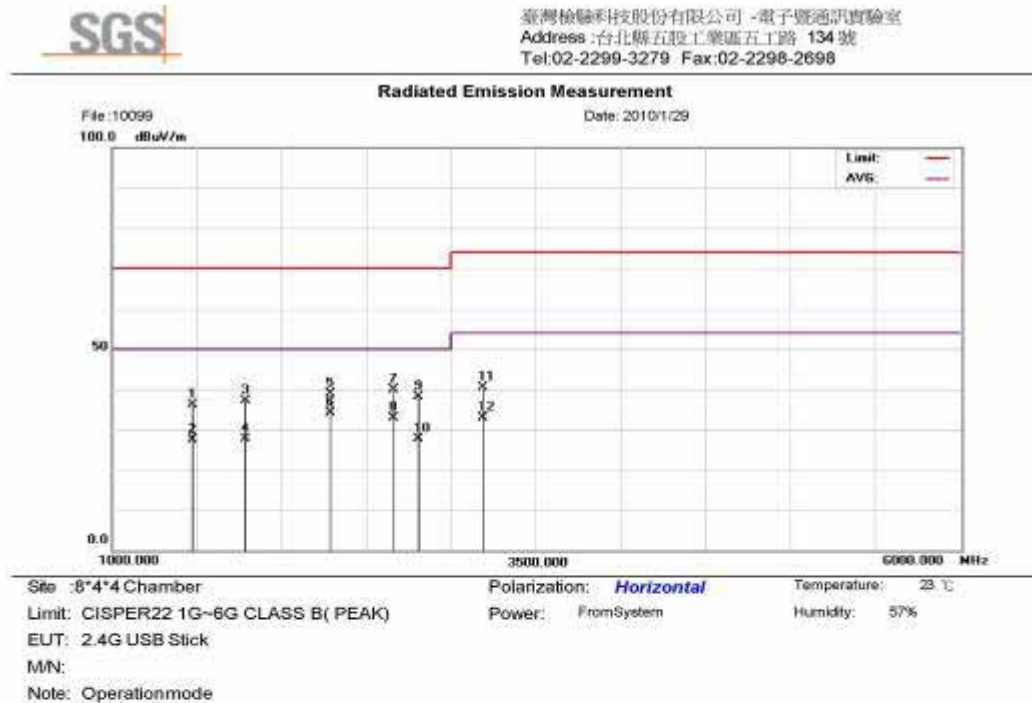
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Above 1G-

Date of Test : Jan. 29, 2010



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1464.300	45.23	-9.07	36.16	70.00	-33.84	peak	
2		1464.300	36.52	-9.07	27.45	50.00	-22.55	AVG	
3		1781.500	44.26	-7.17	37.09	70.00	-32.91	peak	
4		1781.500	34.92	-7.17	27.75	50.00	-22.25	AVG	
5		2278.500	44.08	-5.09	38.99	70.00	-31.01	peak	
6	*	2278.500	39.14	-5.09	34.05	50.00	-15.95	AVG	
7		2655.750	43.62	-3.73	39.89	70.00	-30.11	peak	
8		2655.750	36.55	-3.73	32.82	50.00	-17.18	AVG	
9		2810.550	41.09	-3.03	38.06	70.00	-31.94	peak	
10		2810.550	30.55	-3.03	27.52	50.00	-22.48	AVG	
11		3180.750	41.72	-1.45	40.27	74.00	-33.73	peak	
12		3180.750	34.26	-1.45	32.81	54.00	-21.19	AVG	

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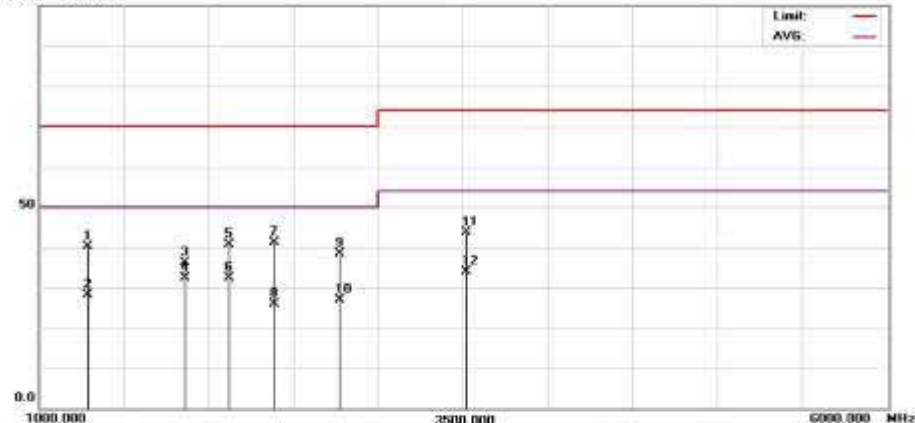
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Tel: 02-2299-3279 Fax: 02-2298-2698

## Radiated Emission Measurement

File: 10099

Date: 2010/1/29

100.0 dBuV/m



Site : 8'x4' Chamber

Polarization: **Vertical**

Temperature: 23 °C

Limit: CISPER22 1G~6G CLASS B( PEAK)

Power: From System

Humidity: 57%

EUT: 2.4G USB Stick

MN:

Note: Operation mode

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1285.600	50.60	-10.58	40.02	70.00	-29.98	peak	
2		1285.600	38.66	-10.58	28.08	50.00	-21.92	AVG	
3		1852.700	42.83	-6.77	36.06	70.00	-33.94	peak	
4		1852.700	39.20	-6.77	32.43	50.00	-17.57	AVG	
5		2120.520	46.20	-5.57	40.63	70.00	-29.37	peak	
6 *		2120.520	38.06	-5.57	32.49	50.00	-17.51	AVG	
7		2382.300	45.92	-4.77	41.15	70.00	-28.85	peak	
8		2382.300	30.66	-4.77	25.89	50.00	-24.11	AVG	
9		2767.500	41.56	-3.23	38.33	70.00	-31.67	peak	
10		2767.500	30.03	-3.23	26.80	50.00	-23.20	AVG	
11		3522.630	44.26	-0.57	43.69	74.00	-30.31	peak	
12		3522.630	34.53	-0.57	33.96	54.00	-20.04	AVG	

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