

FCC CERTIFICATION REPORT

Test Report No.: EM/2011/90074

Applicant : Toshiba Co., Semiconductor & Storage

Address of Applicant : 2-5-1, Kasama, Sakae-Ku, Yokohama 247-8585, Japan

Manufacturer : Toshiba Co., Semiconductor & Storage

Address of Manufacturer : 2-5-1, Kasama, Sakae-Ku, Yokohama 247-8585, Japan

Equipment Under Test (EUT) :

Product Name: FlashAir

Brand Name : N/A

Model Number : THNSW008GAA-A

FCC ID : ZVZ P42350FA1

Added Model(s) : N/A

Standards : FCC Part 15:2010, Subpart B, Class B
Canada ICES-003(Feb. 2004)

Date of Receipt : Sep. 20, 2011

Date of Test : Sep. 20 ~ 22, 2011

Date of Issue(First): Oct. 25, 2011


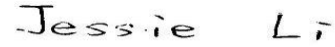

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

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	Oct. 25, 2011 _____
	<i>Eddy Cheng(Engineer)</i>		
Prepared By:	 _____	Date	Oct. 25, 2011 _____
	<i>Jessie Li(Clerk)</i>		
Approved By	 _____	Date	Oct. 25, 2011 _____
	<i>Ion Lin(Assistant Manager)</i>		

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Version

Version No.	Description	Date
00	Original report	Oct. 25, 2011

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1. General Information

1.1 Applicant & Manufacturer Information

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Manufacturer : Toshiba Co., Semiconductor & Storage

Address of Manufacturer : 2-5-1, Kasama, Sakae-Ku, Yokohama 247-8585, Japan

1.2 General Description of EUT

Product Name: FlashAir

Brand Name : N/A

Model Number: THNSW008GAA-A

FCC ID : ZVZ P42350FA1

Added Model(s) : N/A

Model Difference : N/A

Highest Frequency : 2.4GHz

Filing Type : Certification

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WLAN: 802.11 a/b/g/n

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 13.15dBm g : 18.39dBm	DSSS, OFDM	b : 16M8G1D g : 16M5G1D
11n (2.4GHz)	HT20 2412-2462	11	n 16.02dBm	OFDM	17M7D1D
Antenna Designation:		Printed Circuit Board Antenna, 0dBi			
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps			

The max antenna gain is 0dBi which was choosing for Radiated Spurious Emission test. The EUT is compliance with IEEE 802.11 b/g /n Standard.

This report applies for frequency bands: 2412MHz – 2462MHz.

1.3 Details of EUT

Tested Power Supply : From PC

Modes/Function : 1.Data R/W mode. 2.Wireless link mode.

Worst case : 1.Data R/W mode.

1.4 Operation Procedure

1. Set down 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.

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1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
NOTEBOOK	IBM	L412	LR-ZYMYD
USB Mouse	HP	M-UAE96	390938-001
Printer	HP	DJ3820	CN34L181B1
Card Reader	I-O DATA	USB2-W63RW	85500006240
AP	BUFFALO	WCR-GN-TW	14062514734317

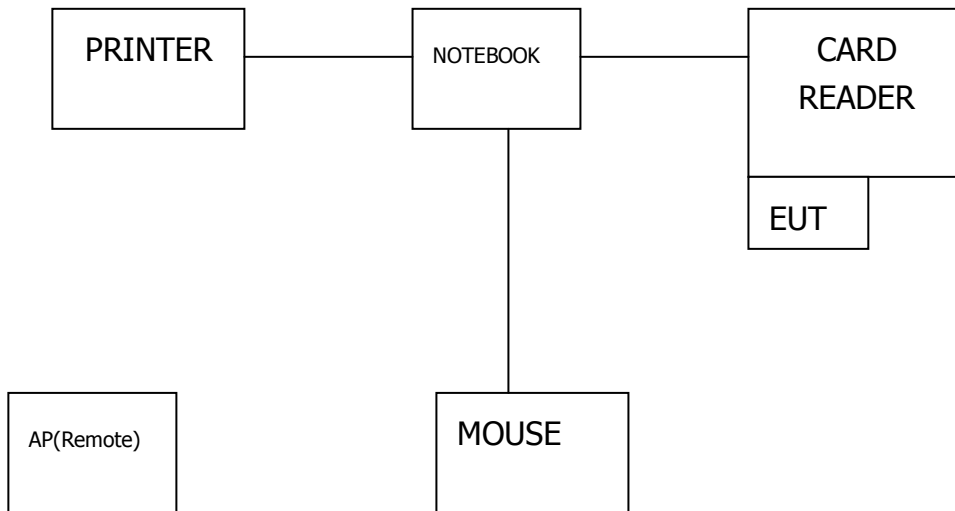
1.6 Modification List

No modification by SGS Taiwan Electronics & Communication Laboratory.

1.7 Cable List

Cable Type	Length	Shield
USB Cable	0.5m	Non-shielding

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 9*6*6 3m Semi-Anechoic chamber 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 3meters. 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 ICES-003(Feb. 2004)	Conducted Emission	PASS	Line	0.1550	-11.74(QP)
			Neutral	0.1550	-14.27(QP)
	Radiated Emission	PASS	Hor.	247.3770	-3.16(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 : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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. 23, 2011	Sep. 22, 2012
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 27, 2010	Nov. 26, 2011
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Mar. 31, 2011	Mar. 30, 2012
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Mar. 31, 2011	Mar. 30, 2012
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

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 : 25 degree C

Humidity : 61 %RH

Atmospheric Pressure : 996 mBar

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2.4.4 Measurement Data

Data R/W mode

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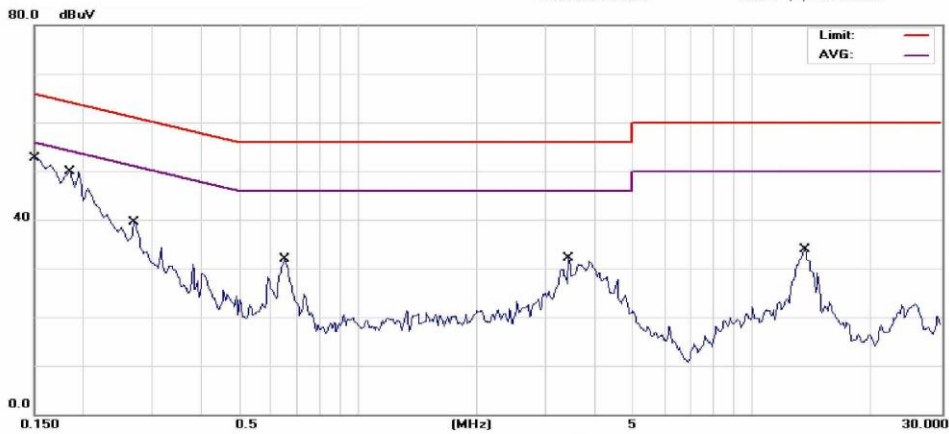


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 台北縣五股工業區五工路 134 號
 電話 : (02) 22993279 傳真 : (02) 22982698

Conducted Emission Measurement

Date: 2011/9/21

Time: 下午 01:58:58



Site SGS CONDUCTED #1

Phase: L1

Temperature: 25 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT:

M/N:

Note: Data R/W, BrunIntest

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	52.50	0.14	52.64	66.00	-13.36	QP	
2		0.1850	49.84	0.13	49.97	64.26	-14.29	QP	
3		0.2700	39.42	0.12	39.54	61.12	-21.58	QP	
4		0.6500	31.80	0.12	31.92	56.00	-24.08	QP	
5		3.4300	31.90	0.16	32.06	56.00	-23.94	QP	
6		13.6800	33.46	0.42	33.88	60.00	-26.12	QP	

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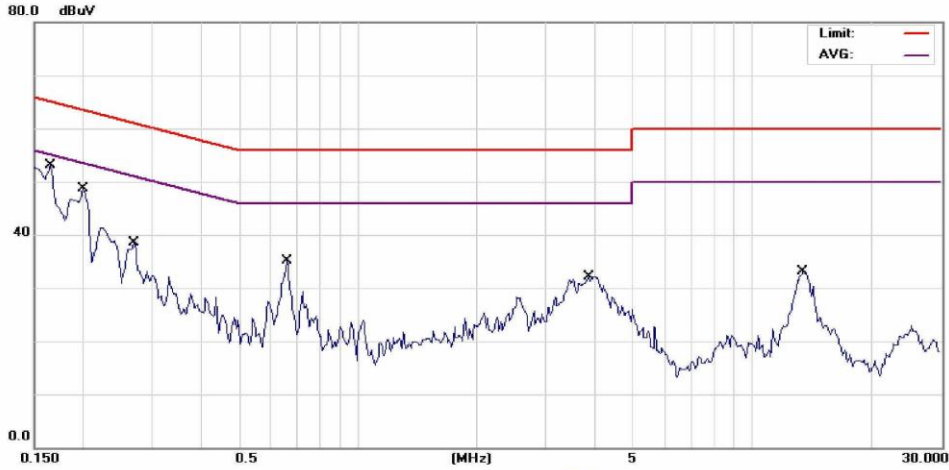


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 電話：(02) 22993279 傳真：(02) 22982698

Conducted Emission Measurement

Date: 2011/9/21

Time: 下午 02:01 :27



Site SGS CONDUCTED #1

Phase: N

Temperature: 25 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT:

M/N:

Note: Data R/W, BrunIntest

No.	Mk.	Freq. MHz	Reading		Measure- ment dBuV	Limit		Over dB	Detector	Comment
			Level dBuV	Factor dB		dBuV	dB			
1	*	0.1650	53.02	0.17	53.19	65.21	-12.02	QP		
2		0.2000	48.54	0.16	48.70	63.61	-14.91	QP		
3		0.2700	38.38	0.16	38.54	61.12	-22.58	QP		
4		0.6600	34.88	0.16	35.04	56.00	-20.96	QP		
5		3.8500	31.98	0.21	32.19	56.00	-23.81	QP		
6		13.5000	32.56	0.46	33.02	60.00	-26.98	QP		

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Wireless link mode

L

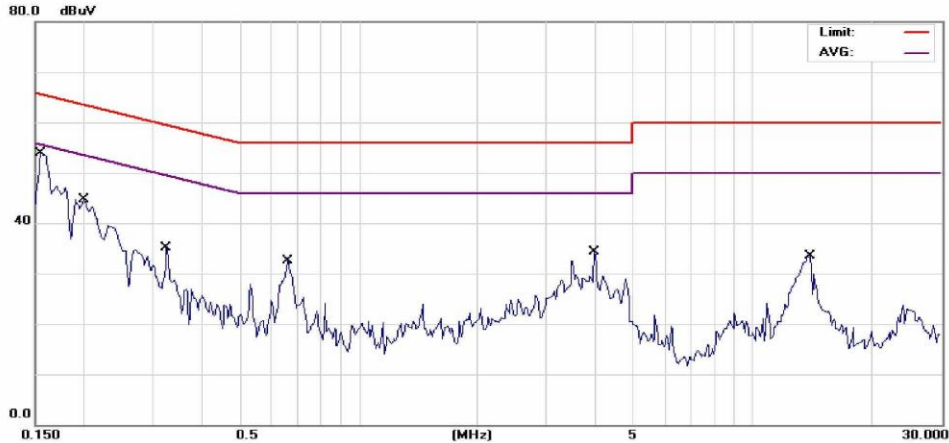


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 電話 : (02) 22993279 傳真 : (02) 22982698

Conducted Emission Measurement

Date: 2011/9/21

Time: 下午 01:50:17



Site SGS CONDUCTED #1

Phase: L1

Temperature: 25 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT:

M/N:

Note: WirelessLinking

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1550	53.86	0.13	53.99	65.73	-11.74	QP	
2		0.2000	44.56	0.12	44.68	63.61	-18.93	QP	
3		0.3250	34.92	0.11	35.03	59.58	-24.55	QP	
4		0.6600	32.48	0.12	32.60	56.00	-23.40	QP	
5		3.9800	34.12	0.17	34.29	56.00	-21.71	QP	
6		14.1000	33.10	0.41	33.51	60.00	-26.49	QP	

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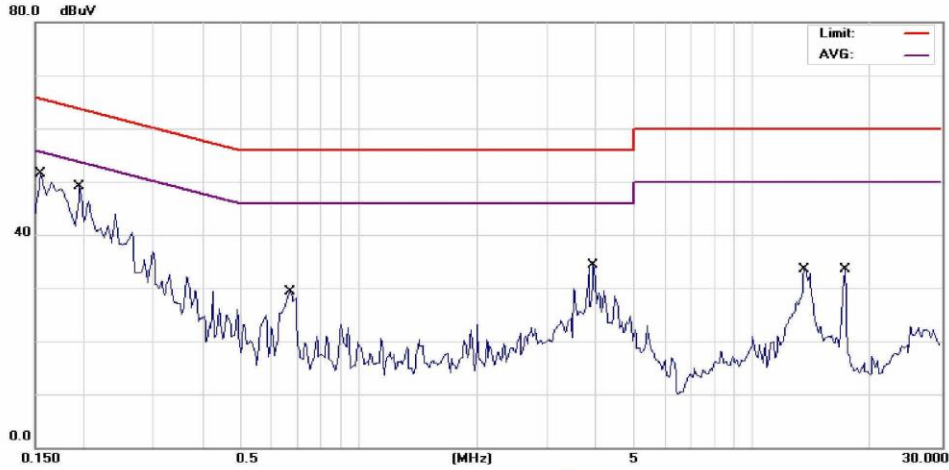


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 電話 : (02) 22993279 傳真 : (02) 22982698

Conducted Emission Measurement

Date: 2011/9/21

Time : 下午 01 :46 :46



Site SGS CONDUCTED #1

Phase: N

Temperature: 25 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT:

M/N:

Note: WirelessLinking

No.	Mk.	Freq. MHz	Reading		Factor	Measure- ment		Limit	Over	Detector	Comment
			Level dBuV			dB	dBuV				
1	*	0.1550	51.28		0.18	51.46	65.73	-14.27	QP		
2		0.1950	49.00		0.16	49.16	63.82	-14.66	QP		
3		0.6700	29.06		0.16	29.22	56.00	-26.78	QP		
4		3.9600	34.02		0.21	34.23	56.00	-21.77	QP		
5		13.6200	33.10		0.47	33.57	60.00	-26.43	QP		
6		17.2000	33.12		0.38	33.50	60.00	-26.50	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
Site NSA	Chamost	966II Chamber	N/A	Nov. 14, 2010	Nov. 13, 2011
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 7	1166.5950K07 -10760-GK	May 20, 2011	May 19, 2012
Spectrum Analyzer	R & S	FSP 40	1093.4495.40	May 04, 2011	May 03, 2012
RF-Amplifier (0.1-1300MHz)	HP	8447D	1937A02774	Nov. 27, 2010	Nov. 26, 2011
RF-Amplifier (1-26.5MHz)	HP	8449B	3008A00578	Mar. 02, 2011	Mar. 01, 2012
Coaxial Cables	SUCOFLEX	104PEA	N/A	Nov. 27, 2010	Nov. 26, 2011
Antenna Master	MF.	N/A	N/A	N/A	N/A
Turn Table	MF.	N/A	N/A	N/A	N/A
Controller	MF.	3000	MF780208153	N/A	N/A
Antenna	SCHWAZBECK	VULB9160	3068	Nov. 12, 2010	Nov. 11, 2011
Horn Antenna (For above 1G)	CHAMPRO	HA1-18GG	SN0805-HA02	Jul. 12, 2011	Jul. 11, 2012
Software	Farad	EZ-EMC-VER2A1.1 (USB)	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 : 25 degree C Humidity : 60 %RH
 Atmospheric Pressure : 996 mBar

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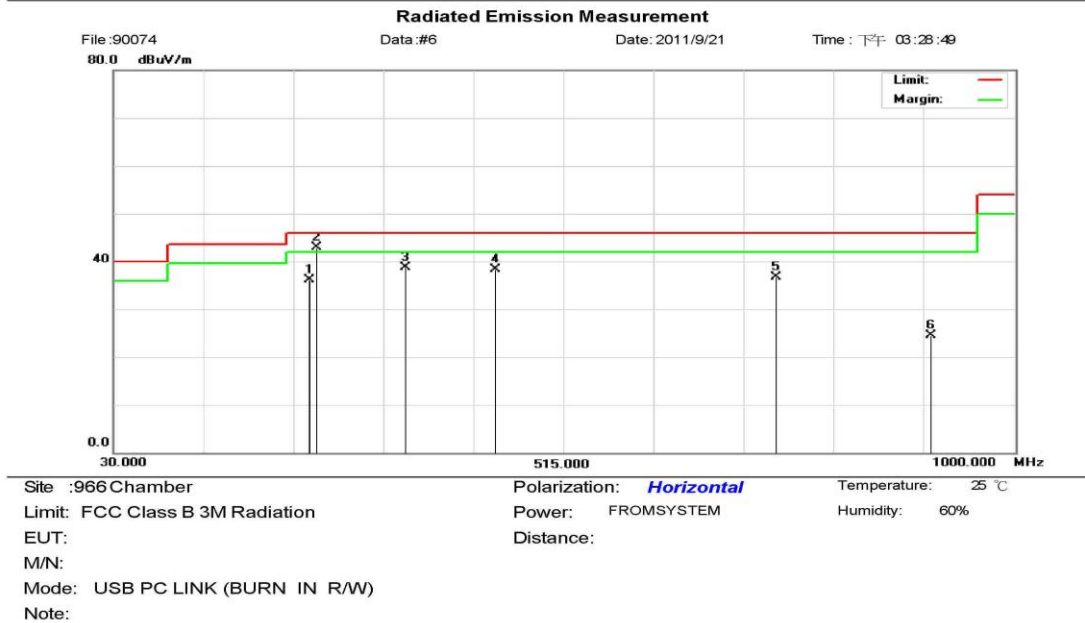
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2.5.4 Measurement Data

Data R/W mode

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		240.0496	50.49	-14.41	36.08	46.00	-9.92	QP	
2	*	247.3770	56.99	-14.15	42.84	46.00	-3.16	QP	
3		343.1168	50.48	-11.78	38.70	46.00	-7.30	QP	
4		441.0600	47.81	-9.50	38.31	46.00	-7.69	QP	
5		742.5580	40.39	-3.65	36.74	46.00	-9.26	QP	
6		910.3072	26.20	-1.70	24.50	46.00	-21.50	QP	

*:Maximum data x:Over limit !:over margin ●:ReferenceOnly

File : 90074\Data : #6

Page: 1

Engineer Signature:

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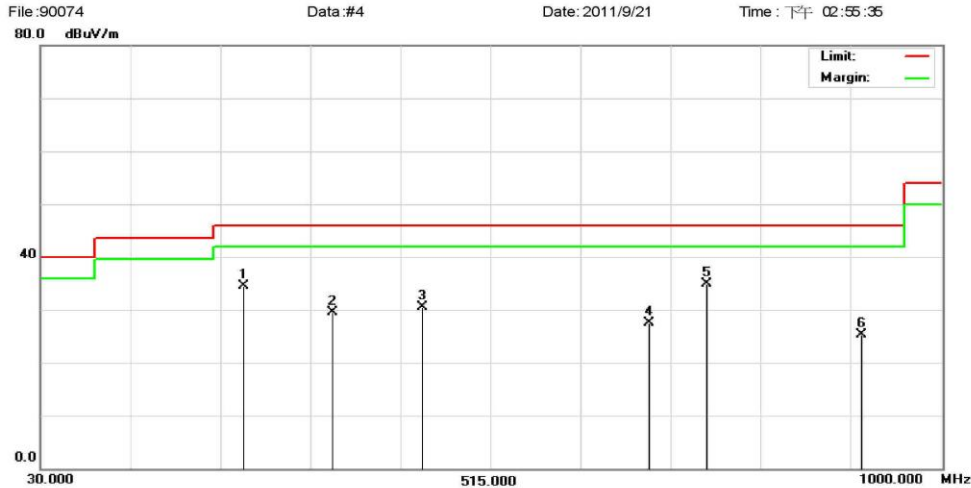
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 Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement



File:90074 Data:#4 Date:2011/9/21 Time:下午 02:55:35
 Site :966 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation Power: FROMSYSTEM Humidity: 60%
 EUT: Distance:
 M/N:
 Mode: USB PC LINK (BURN IN R/W)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		247.4796	48.72	-14.14	34.58	46.00	-11.42	QP	
2		343.1200	41.27	-11.78	29.49	46.00	-16.51	QP	
3		441.0440	40.00	-9.50	30.50	46.00	-15.50	QP	
4		685.4840	32.27	-4.69	27.58	46.00	-18.42	QP	
5	*	746.5800	38.49	-3.60	34.89	46.00	-11.11	QP	
6		913.9770	26.83	-1.61	25.22	46.00	-20.78	QP	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File :90074\Data :#4

Page: 1

Engineer Signature:

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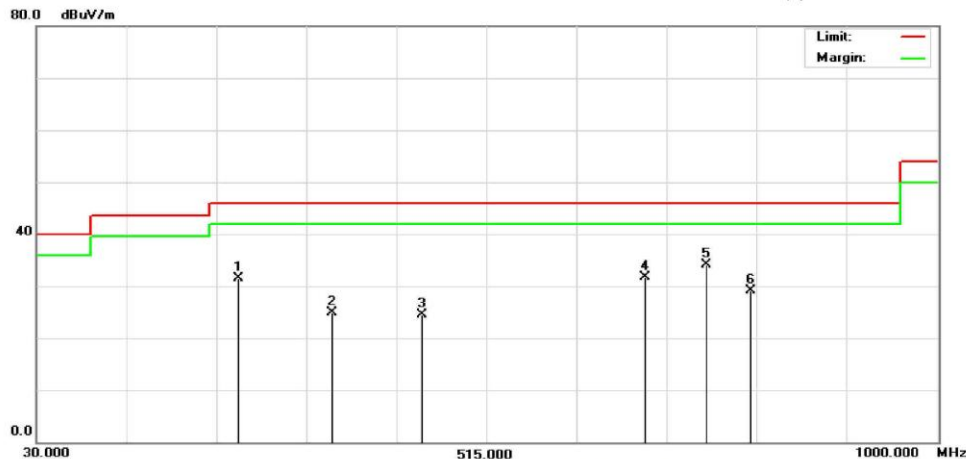
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**Wireless link mode
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Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

File : 90074 Data : #10 Date : 2011/9/21 Time : 下午 04:52:25



Site : 966 Chamber Polarization: **Horizontal** Temperature: 25 °C
Limit: FCC Class B 3M Radiation Power: FROMSYSTEM Humidity: 60%
EUT: Distance:
M/N:
Mode: WirelessMode
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		245.3800	45.69	-14.21	31.48	46.00	-14.52	QP	
2		348.0590	36.66	-11.67	24.99	46.00	-21.01	QP	
3		444.0140	33.87	-9.46	24.41	46.00	-21.59	QP	
4		685.4668	36.35	-4.69	31.66	46.00	-14.34	QP	
5	*	749.7610	37.60	-3.54	34.06	46.00	-11.94	QP	
6		799.9970	31.66	-2.55	29.11	46.00	-16.89	QP	

*:Maximum data x:Over limit !:over margin

●ReferenceOnly

File : 90074\Data : #10

Page : 1

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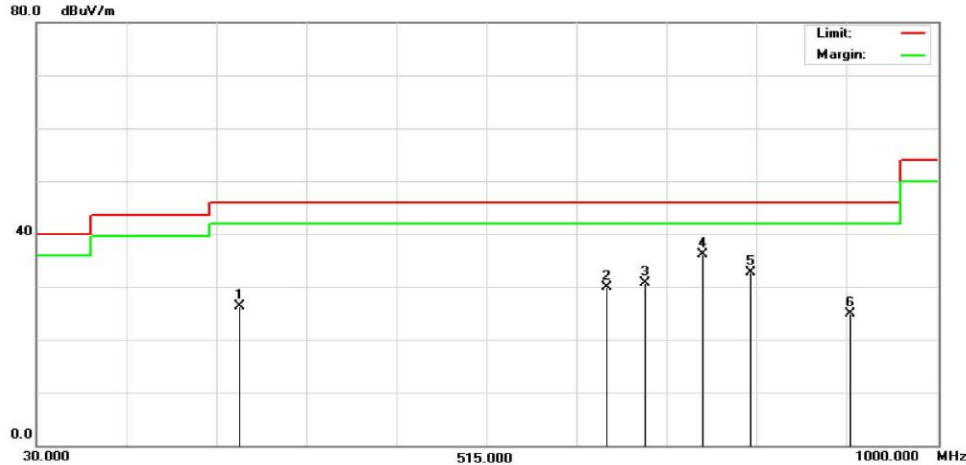
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Radiated Emission Measurement

File:90074 Data:#8 Date:2011/9/21 Time : 下午 04:27:02



Site :966 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation Power: FROMSYSTEM Humidity: 60%
 EUT: Distance:
 M/N:
 Mode: WirelessMode
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		247.5000	40.52	-14.14	26.38	46.00	-19.62	QP	
2		643.6800	35.64	-5.66	29.98	46.00	-16.02	QP	
3		685.4680	35.39	-4.69	30.70	46.00	-15.30	QP	
4	*	746.8260	39.77	-3.60	36.17	46.00	-9.83	QP	
5		800.0960	35.19	-2.55	32.64	46.00	-13.36	QP	
6		906.2400	26.65	-1.77	24.88	46.00	-21.12	QP	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File :90074\Data :#8

Page: 1

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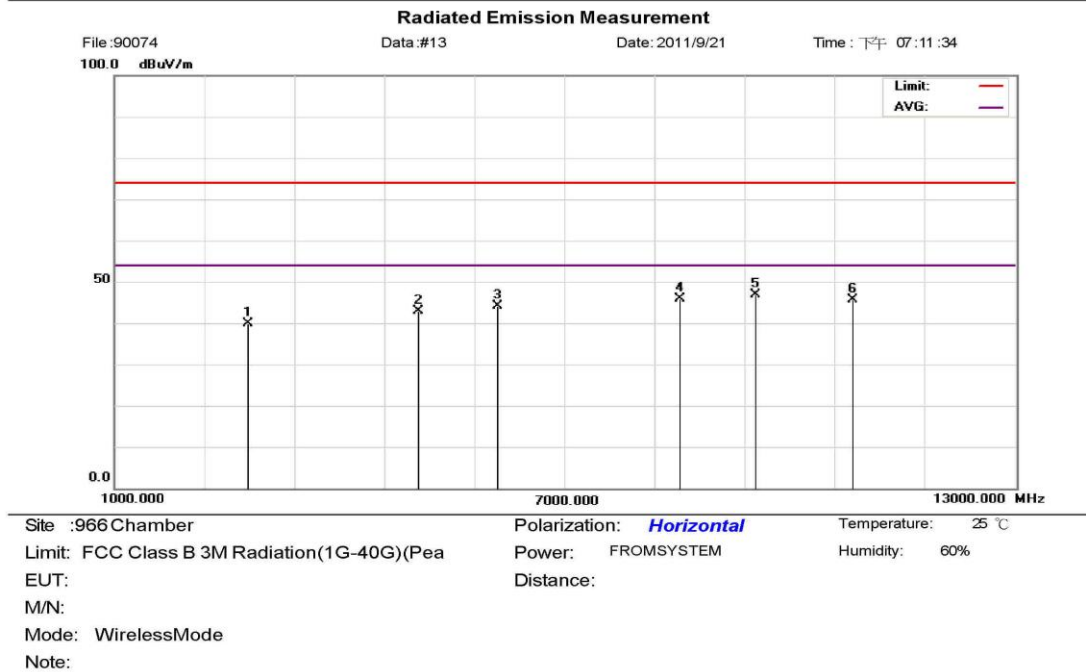
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Tel:02-2299-3279 Fax:02-2298-2698



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2776.000	38.52	1.27	39.79	74.00	-34.21	peak	
2		5056.000	35.71	7.29	43.00	74.00	-31.00	peak	
3		6112.000	35.33	8.85	44.18	74.00	-29.82	peak	
4		8536.000	32.20	13.61	45.81	74.00	-28.19	peak	
5	*	9544.000	29.64	17.26	46.90	74.00	-27.10	peak	
6		10840.00	25.59	20.15	45.74	74.00	-28.26	peak	

*:Maximum data x:Over limit !:over margin

●ReferenceOnly

File : 90074Data : #13

Page: 1

Engineer Signature:

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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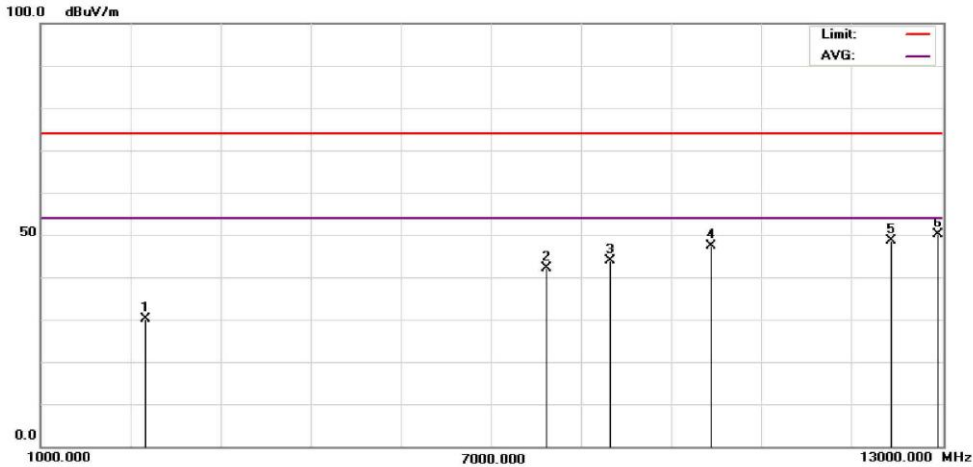
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V:

臺灣檢驗科技股份有限公司 -電子聾通訊實驗室
 Address :台北縣五股工業區五工路 134 號
 Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

File :90074 Data :#14 Date: 2011/9/21 Time : 下午 07:17:27



Site :966 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: FROMSYSTEM Humidity: 60%
 EUT: Distance:
 MN:
 Mode: WirelessMode
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2392.000	30.08	0.07	30.15	74.00	-43.85	peak	
2		7744.000	29.97	12.27	42.24	74.00	-31.76	peak	
3		8584.000	30.14	13.73	43.87	74.00	-30.13	peak	
4		9928.000	29.08	18.28	47.36	74.00	-26.64	peak	
5		12328.00	25.71	22.98	48.69	74.00	-25.31	peak	
6	*	12952.00	24.99	25.10	50.09	74.00	-23.91	peak	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File :90074\Data :#14

Page: 1

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**** End of Report ****

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