







ISO/IEC17025 Accredited Lab.

Report No: FCC 0907290 File reference No: 2009-08-03

Applicant: WIN ACCORD LTD.

Product: Digital Photo Frame

Brand Name: N/A

Model No: XSJ-01040X(X=A-Z)

Test Standards: FCC Part 15 Subpart B: 2008

Test result:

It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tong

Manager

Dated: August 03, 2009

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Date: 2009-08-03



# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC-Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

### VCCI- Registration No.: R-3015 and C-3332

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

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#### 1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: WIN ACCORD LTD.

Address: 12F, NO.225, SEC 5, 105 SONG SHAN DIST., NAN JING EAST ROAD, TAIPEI.

**TAIWAN** 

Telephone: 02-2749-3837 Fax: 02-2749-3918

1.3 Description of EUT

Product: Digital Photo Frame
Manufacturer: WIN ACCORD LTD.

Address: 12F, NO.225, SEC 5,105 SONG SHAN DIST., NAN JING EAST ROAD, TAIPEI.

**TAIWAN** 

Brand Name: N/A

Model Number: XSJ-01040X(X=A-Z)

Additional Model Number: N/A

The adapter Model No.: ADS-18C-12N 12018GPCU (Made by HONOR)

Input: 100-240V, 0.6A Max, 50/60Hz Output: 12V, 1.5A

Rating: Input: DC 12V, 1.5A

1.4 Submitted Sample(s): 1 Sample

1.5 Test Duration: 2009-07-28 to 2009-08-03

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Andrew Shu

The report refers only to the sample tested and does not apply to the bulk.

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# 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8136	8136102	SCHWARZBECK	2009.2.24	1Year

## 2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with					
Tracking Generator)	MS2661C	MT72089	ANRITSU	2009.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2009.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2009.2.23	1Year

# 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
				Data cable of	
				2m length	
Keyboard	KB-0225	1211815	IBM	unshielded	FCC DOC
				Data cable of	
				2m length	
				unshielded	
				and 1.8m length	
Printer	BOISB-027-00	CNFG029476	EPSON	AC Mains cable	DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	6331-4CN	23-DNWX3	IBM	Mains cable	FCC ID

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				1.8m length	
PC	8434		IBM	AC Mains cable	FCC DOC
				Data cable of	
Mouse	OM860XC	HM0509	BIGCOW	1.5m length	FCC DOC

#### 3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

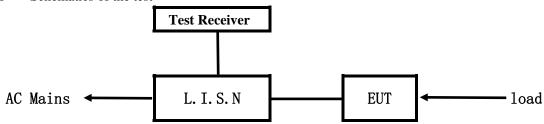
3.2 Test Standards

FCC Part 15 Subpart B: 2008



### 4.0 Conducted Power line Test

#### 4.1 Schematics of the test

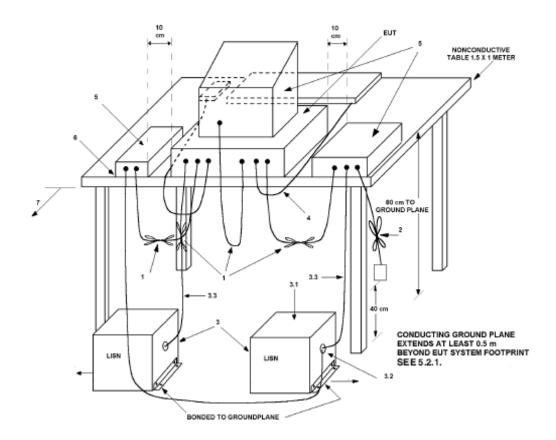


**EUT: Equipment Under Test** 

### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



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### 4.3 Power line conducted Emission Limit

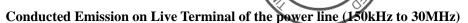
Eraguan ay (MIIz)	Class A Li	mits dB(μV)	Class B Limits dB(μV)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00	
5.00 ~ 30.00	73.00	60.00	60.00	50.00	

Notes:

- 1. \*decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

### 4.4 Test Results

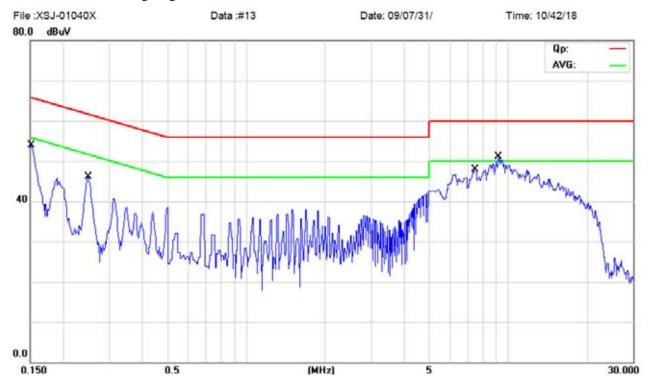
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.



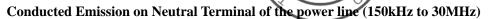
EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: Pass



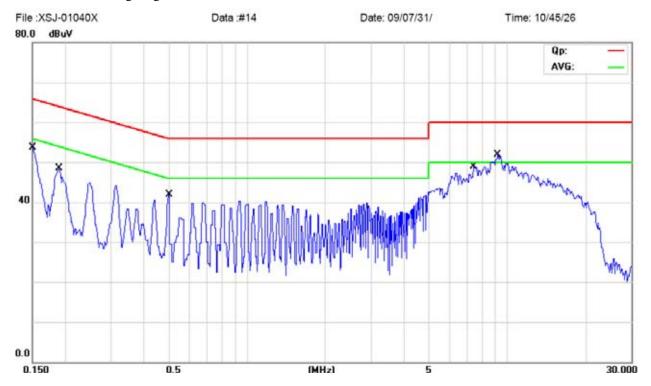
E		Reading	Limit			
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150			54.22	52.94	65.96	55.96
0.249			45.91	40.11	61.77	51.77
7.528			48.15	44.15	60.00	50.00
9.285			51.40	44.70	60.00	50.00



EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: Pass



E		Reading	Limit			
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.151	53.16	48.28			65.93	55.93
0.189	49.22	38.69			64.05	54.05
0.500	42.17	37.30			56.00	46.00
7.524	49.41	42.56			60.00	50.00
9.279	52.41	43.85			60.00	50.00



# Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

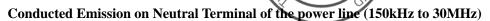
**EUT set Condition:** Play SD

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B **Results: Pass** 

File :XSJ-01040X 10.0 dBuV	Data :#9	Date	: 09/07/31/	Time: 10/01/06	
				Qp: AVG:	_
· White Williams			The state of the s	Malakh higa arak diran maryan gara	m
0.150	0.5	(MHz)	5		30.00
Evaguanav		ading(dB \mu V)		Limit	

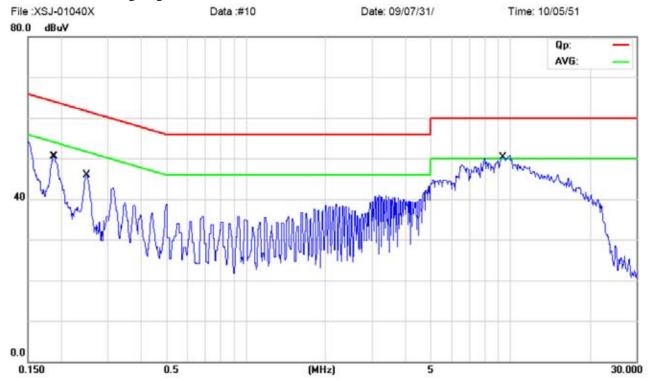
Ema assam ass		Reading	Limi	t		
Frequency (MHz)	Live	Live		al	(dB µ V)	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.189			53.24	31.97	64.08	54.08
3.020			43.45	39.64	56.00	46.00
10.124			48.20	44.60	60.00	50.00



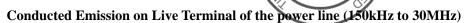
EUT set Condition: Play SD

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: Pass



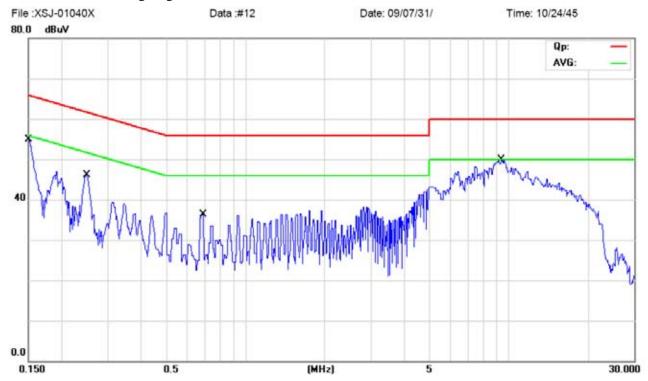
F		Reading	Limi	t		
Frequency (MHz)	Live	<b>;</b>	Neutral		(dB µ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.189	50.22	46.10			64.08	54.08
0.249	45.70	42.61			61.76	51.76
9.484	51.72	44.81			60.00	50.00



EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: Pass



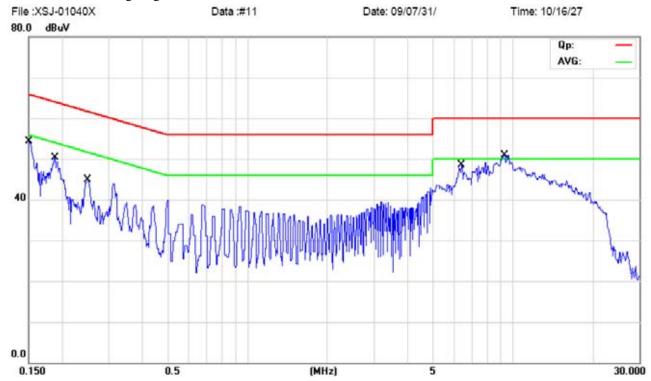
E		Reading	Limi	t		
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150			54.83	48.90	65.96	55.96
0.249			46.57	45.63	61.79	51.79
9.411			47.35	43.45	60.00	50.00
0.689			35.57	27.67	56.00	46.00



EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: Pass



F		Reading(dB μ V)			Limit	
Frequency (MHz)	Live		Neutral		(dB µ V)	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150	54.22	50.10			65.97	55.97
0.189	50.39	39.01			64.05	54.05
0.249	45.97	44.11			61.77	51.77
6.344	45.44	39.84			60.00	50.00
9.355	49.48	44.48			60.00	50.00

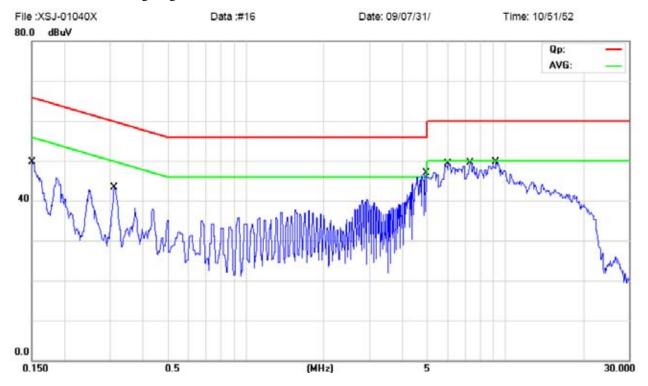


# Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: Pass



Engguenav	Reading(dB \( \mu \)				Limi	t
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150			49.92	40.69	65.97	55.97
0.313			43.27	38.10	59.88	49.88
4.952			47.72	41.04	56.00	46.00
6.082			50.17	43.28	60.00	50.00
7.401			49.71	42.01	60.00	50.00
9.218			50.32	41.55	60.00	50.00

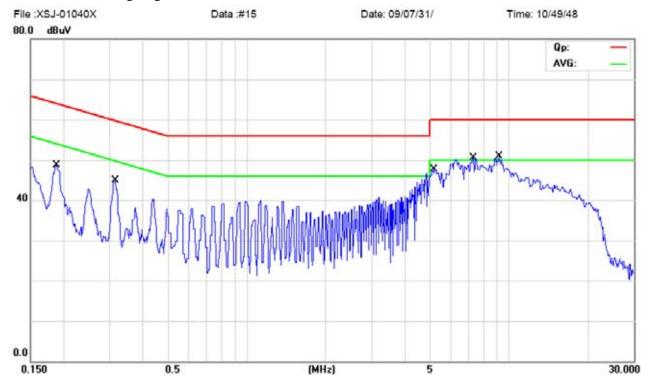


Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: Pass



Empayomary	Frequency Live Reading(dB \( \mu \) V) Neutral			Limi	t	
(MHz)			Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.188	49.25	38.96			64.12	54.12
0.314	45.72	38.16			59.85	49.85
5.139	48.15	40.07			60.00	50.00
7.401	50.27	41.61			60.00	50.00
9.222	51.04	44.47			60.00	50.00

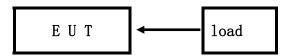
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#### 5.0 Radiated Disturbance Test

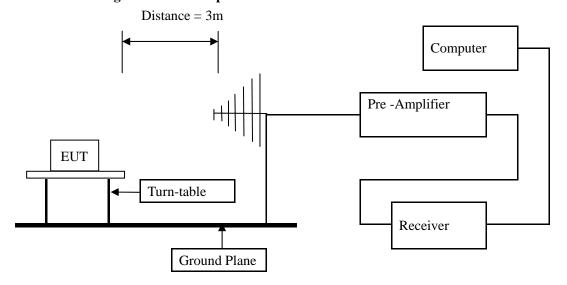
#### 5.1 Schematics of the test



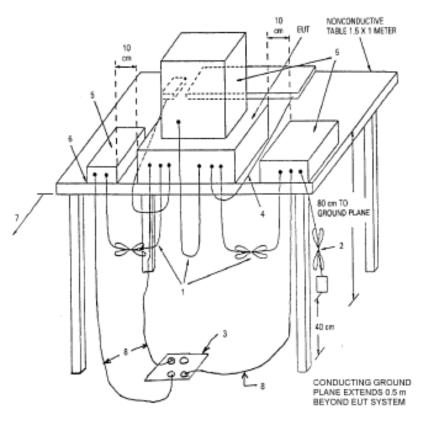
### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Test Voltage: 120V~, 60Hz Block diagram of Test setup







# 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

#### 5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

1 GHz

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# A: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Connected to PC

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

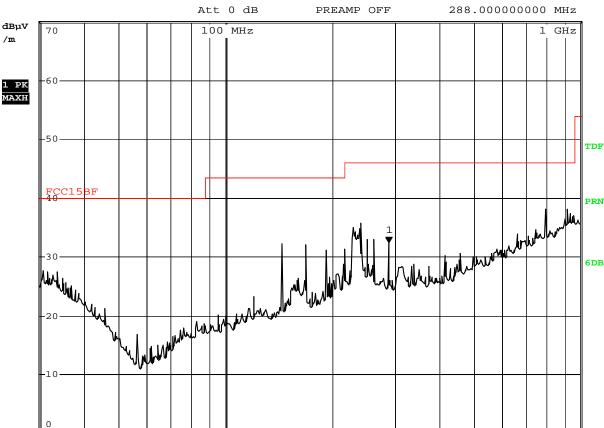
Please refer to following diagram for individual

Picture of the test

**\$** 

RBW 120 kHz Marker 1 [T1]

MT 50  $\mu s$  32.38  $dB\mu V/m$ 



Date: 30.JUL.2009 09:17:29

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
144.00	32.19	Н	43.50
168.00	32.02	Н	43.50
192.00	31.15	Н	43.50
240.00	35.73	Н	46.00
288.00	32.38	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.

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# B: Radiated Disturbance In Vertical (30MHz --- 1000MHz)

EUT set Condition: Connected to PC

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

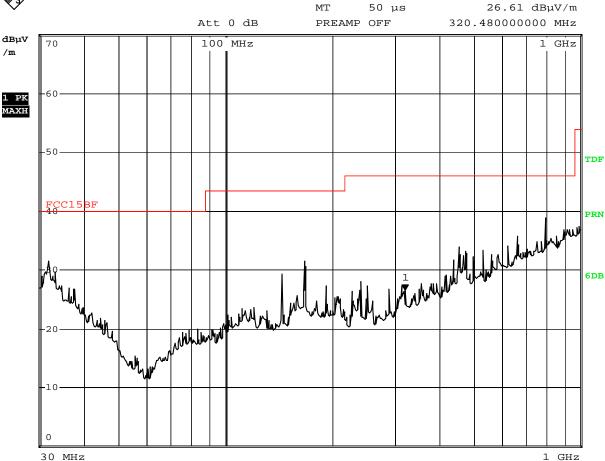
Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



RBW 120 kHz Marker 1 [T1 ]



Date: 30.JUL.2009 09:07:52

_				
	Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
	144.00	31.40	V	43.50
	168.00	31.90	V	43.50
	192.00	29.55	V	43.50
	239.56	34.92	V	46.00
	288.00	33.68	V	46.00

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1 GHz

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# C: Radiated Disturbance In Horizontal (30MHz----1000MHz)

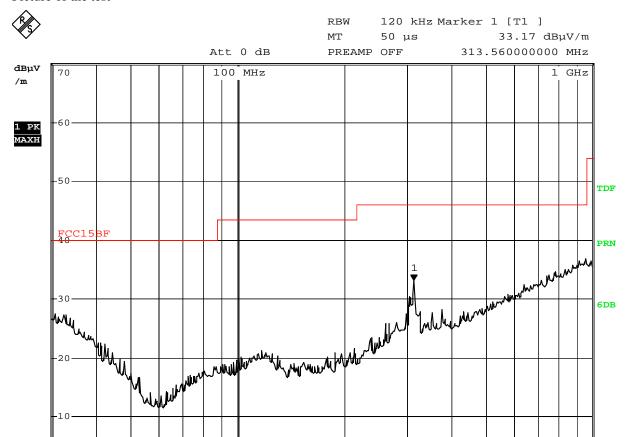
EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 29.JUL.2009 10:09:19

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
111.84	22.44	Н	43.50
251.88	26.92	Н	46.00
287.04	29.54	Н	46.00
313.80	36.00	Н	46.00

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### D: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

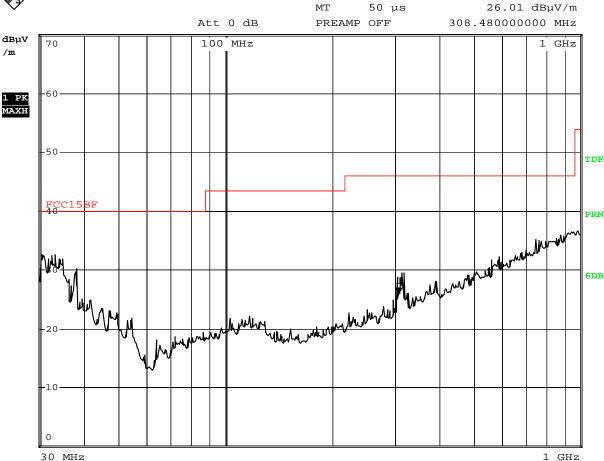
Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



RBW 120 kHz Marker 1 [T1]



Date: 29.JUL.2009 10:07:18

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
34.44	31.77	V	46.00
37.84	26.87	V	40.00
65.16	19.33	V	40.00
159.88	22.23	V	43.50
313.72	33.91	V	46.00

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# Radiated Disturbance In Horizontal (30MHz----1000MHz)

**EUT** set Condition: Play USB

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B **Results: PASS** 

Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1 ]  $32.40 \text{ dB}\mu\text{V/m}$ МТ 50 µs

Att 0 dB PREAMP OFF 327.080000000 MHz dΒμV 100 MHz /m MAXH TDF PRN 6DB 1 GHz

30.JUL.2009 Date: 09:25:48

30 MHz

	Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
	230.44	36.03	Н	46.00
	261.68	35.00	Н	46.00
ſ	327.08	32.40	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.

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# Radiated Disturbance In Vertical (30MHz --- 1000MHz)

**EUT set Condition:** Play USB

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B **Results: PASS** 

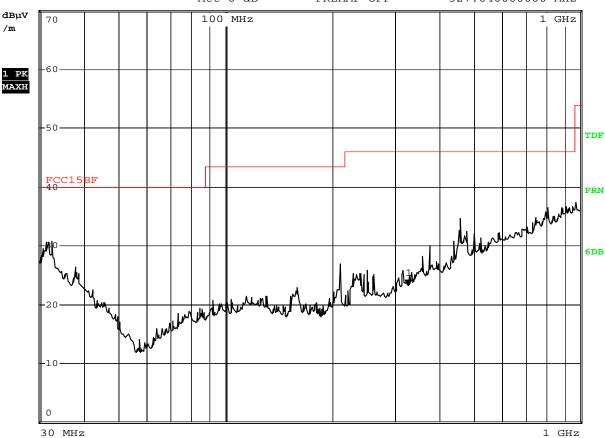
Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1 ] МТ

50 µs  $23.17 \text{ dB}\mu\text{V/m}$ 

Att 0 dB PREAMP OFF 327.640000000 MHz 100 MHz



30.JUL.2009 Date: 09:27:18

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
210.80	26.91	V	4600
250.80	25.81	V	46.00
376.24	30.08	V	46.00
458.24	34.54	V	46.00

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1 GHz

Report No: 0907290 Date: 2009-08-03



# G: Radiated Disturbance In Horizontal (30MHz----1000MHz)

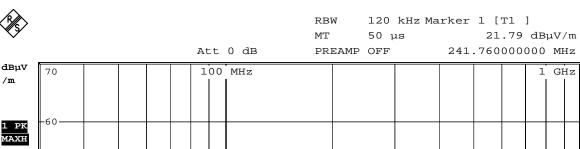
EUT set Condition: Play SD

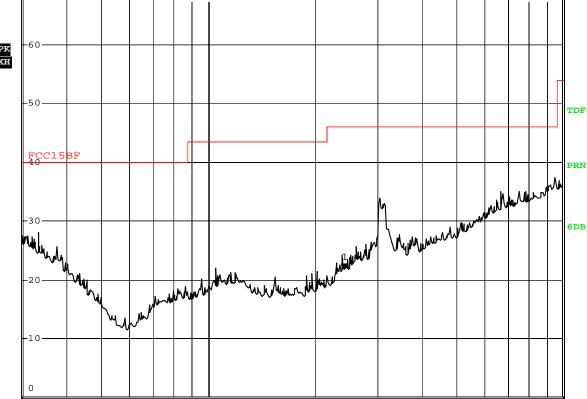
Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test





Date: 29.JUL.2009 10:01:02

30 MHz

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
116.32	23.56	Н	43.50
204.36	23.23	Н	46.00
313.60	35.36	Н	46.00

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## H: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Play SD

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B **PASS Results:** 

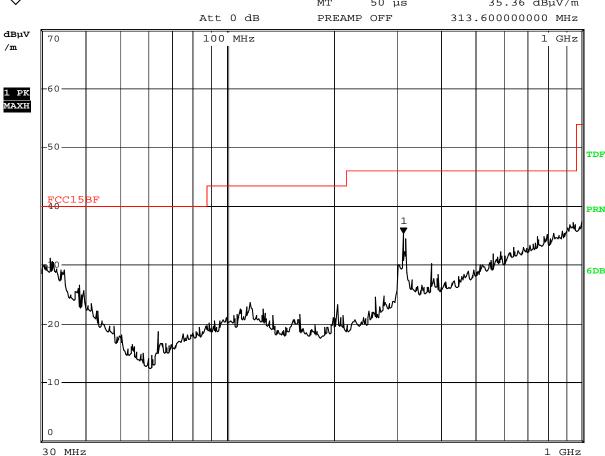
Please refer to following diagram for individual

Picture of the test



RBW 120 kHz Marker 1 [T1 ]

мт 50 µs 35.36 dBµV/m



Date: 29.JUL.2009 09:57:07

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
105.48	21.91	V	43.50
304.80	33.93	V	46.00

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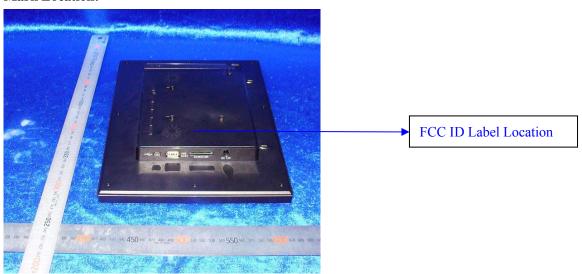
### 6.0 FCC ID Label

FCC ID: V37-6222LG104

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### **Mark Location:**



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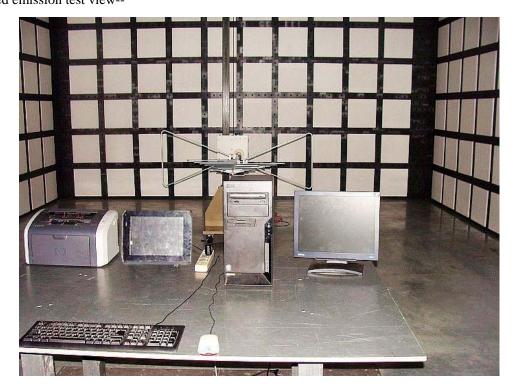


#### 7.0 Photo of testing

#### 7.1 Conducted test View—



#### 7.2 Radiated emission test view--



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#### 7.3 Photo for the EUT





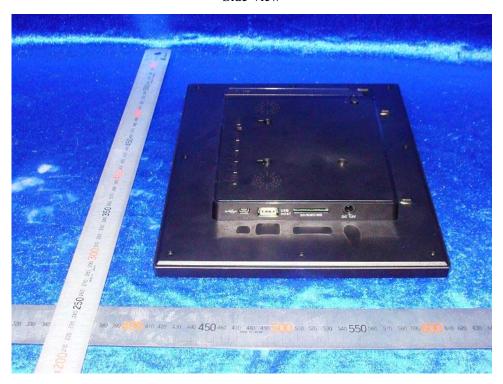
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Side View



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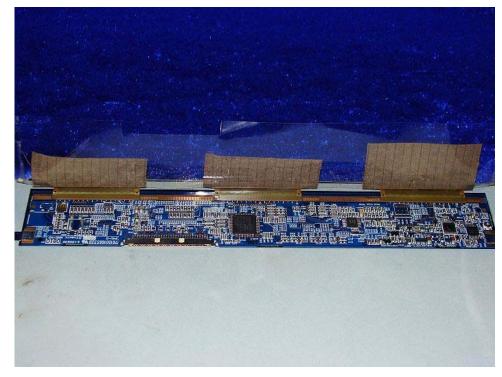
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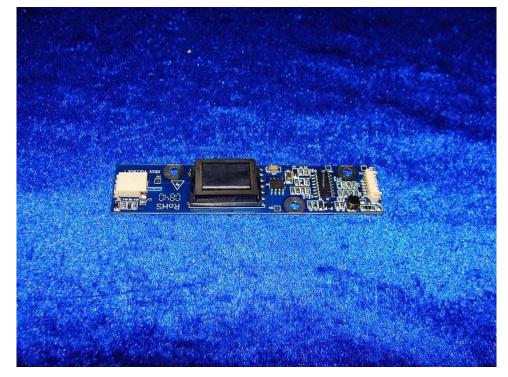
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# -End of the report-