







#### ISO/IEC17025 Accredited Lab.

Report No: FCC 0904101 File reference No: 2009-04-22

Applicant: WIN ACCORD LTD.

Product: Digital Photo Frame

Brand Name: N/A

Model No: DF05001-13-XXX (X=A-Z, 0-9, 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

# Jack Chung

Jack Chung

Manager

Dated: April 22, 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

Report No: 0904101 Page 2 of 54

Date: 2009-04-22



## **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.

Page 3 of 54

Report No: 0904101 Date: 2009-04-22



## **Test Report Conclusion** Content

| 1.0 | General Details                            | 4  |
|-----|--|----|
| 1.1 | Test Lab Details                           | 4  |
| 1.2 | Applicant Details                          | 4  |
| 1.3 | Description of EUT                         | 4  |
| 1.4 | Test Uncertainty                           | 4  |
| 1.5 | Submitted Sample                           | 4  |
| 1.6 | Test Duration                              | 4  |
| 2.0 | List of Measurement Equipment.             | 5  |
| 2.1 | Conducted Emission Test.                   | 5  |
| 2.2 | Radiated electromagnetic disturbance test. | 5  |
| 2.3 | Auxiliary Equipment                        | 5  |
| 3.0 | Technical Details                          | 6  |
| 3.1 | Investigations Requested                   | 6  |
| 3.2 | Test Standards                             | 6  |
| 4.0 | Power line Conducted Emission Test.        | 7  |
| 5.0 | Radiated Disturbance Test                  | 25 |
| 6.0 | FCC ID Label                               | 43 |
| 7.0 | Photo of testing                           | 44 |

Date: 2009-04-22



#### 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: DF05001-13-XXX (X=A-Z, 0-9, a-z)

Additional Model Number: DPF7901, DPF7911

The adapter Model No.: XKD-C2000IC5.0-12W (Made by MOSO)

Rating: Input: 100-240V, 0.5A Max, 50/60Hz Output: 5V, 2A The adapter Model No.: ADS-12G-06 05010GPCU (Made by HONOR)
Rating: Input: 100-240V, 0.3A Max, 50/60Hz Output: 5V, 2A

Remark: Just model names and appearance color are different.

Rating: Input: DC 5V, Current 2A

### 1.4 Submitted Sample(s): 1 Sample

1.5 Test Duration: 2009-04-15 to 2009-04-22

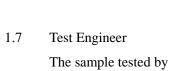
## 1.6 Test Uncertainty

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

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

Page 5 of 54

Report No: 0904101 Date: 2009-04-22





Print Name: Terry Tang

#### 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

| 2.5 TIUXIII | ary 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     | LaserJet 1015 | CNFG029476 | HP           | AC Mains cable  | DOC        |

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

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The Shenzhen Timeway Technology Consulting co., Ltd reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



| 1       | 1             |               |      | 1               | 1       |
|---------|---------------|---------------|------|-----------------|---------|
|         |               |               |      | Data cable of   |         |
|         |               |               |      | 2m length       |         |
|         |               |               |      | unshielded      |         |
|         |               |               |      | and 1.8m length |         |
| Printer | LaserJet 1022 | CNBG591GM7    | HP   | AC Mains cable  | DOC     |
|         |               |               |      | Data cable of   |         |
|         |               |               |      | 1.5m length     |         |
|         |               |               |      | unshielded and  |         |
|         |               |               |      | 1.8m length AC  |         |
| Monitor | FP51G         | ET47604175CLO | BENQ | Mains cable     | FCC DOC |
|         |               |               |      | Data cable of   |         |
|         |               |               |      | 1.5m length     |         |
|         |               |               |      | unshielded and  |         |
|         |               |               |      | 1.8m length AC  |         |
| Monitor | 6331-4CN      | 23-DNWX3      | IBM  | Mains cable     | FCC DOC |

|       |        |                | 1.8m length    |         |
|-------|--------|----------------|----------------|---------|
| PC    | 8434   | <br>IBM        | AC Mains cable | FCC DOC |
|       |        |                | Data cable of  |         |
| Mouse | M-F105 | <br>L.SEletron | 1.5m length    | FCC DOC |

#### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

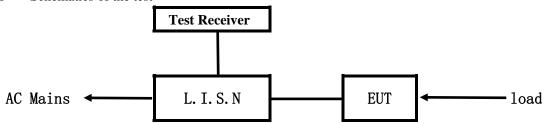
#### 3.2 Test Standards

FCC Part 15 Subpart B: 2008



#### 4.0 Conducted Power line Test

#### 4.1 Schematics of the test

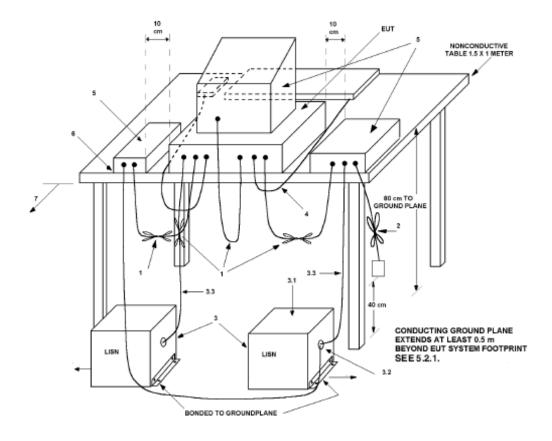


**EUT: Equipment Under Test** 

#### 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.

#### Block diagram of Test setup



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

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The Shenzhen Timeway Technology Consulting co., Ltd reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Page 8 of 54

Report No: 0904101 Date: 2009-04-22



#### 4.3 Power line conducted Emission Limit

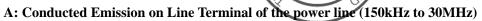
| Eroguanov (MUz)  | Class A Li       | mits $dB(\mu V)$ | Class B Lin      | nits dB(μV)   |  |  |  |  |
|------------------|------------------|------------------|------------------|---------------|--|--|--|--|
| Frequency(MHz)   | Quasi-peak Level | Average Level    | Quasi-peak Level | Average Level |  |  |  |  |
| $0.15 \sim 0.50$ | 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: Memory

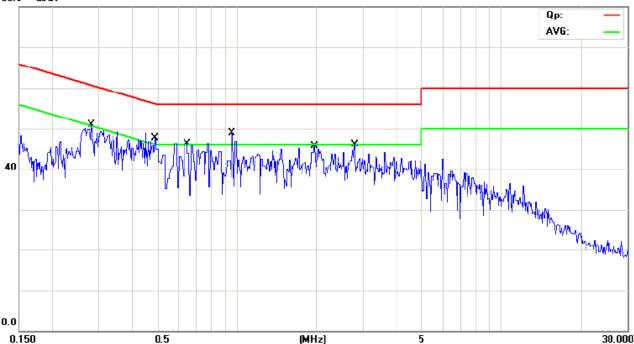
Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

80.0 dBuV



| Engavonav          |            | Reading | (dB µ V)   |         | Limit      |         |
|--------------------|------------|---------|------------|---------|------------|---------|
| Frequency<br>(MHz) | Live       | ;       | Neutral    |         | (dB µ      | V)      |
| (MHZ)              | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average |
| 0.280              | 44.44      | 21.04   |            |         | 60.81      | 50.81   |
| 0.488              | 37.96      | 18.56   |            |         | 56.20      | 46.20   |
| 0.641              | 39.42      | 18.32   |            |         | 56.00      | 46.00   |
| 0.957              | 39.45      | 20.45   |            |         | 56.00      | 46.00   |
| 1.956              | 36.08      | 20.68   |            |         | 56.00      | 46.00   |
| 2.779              | 34.61      | 20.31   |            |         | 56.00      | 46.00   |



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

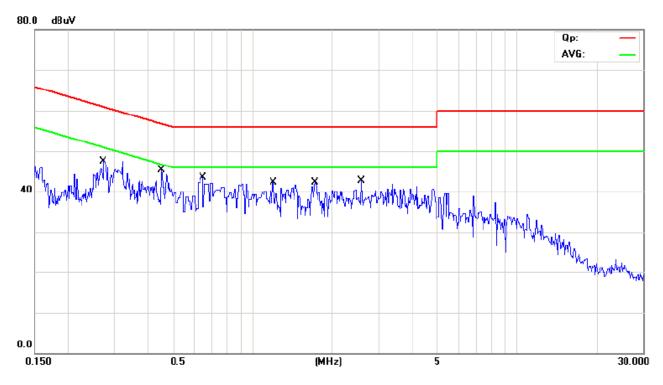
EUT set Condition: Memory

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

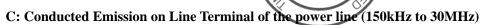
Results: Pass

Please refer to following diagram for individual



| Engguenav       |            | Reading  | Limit      |         |              |         |
|-----------------|------------|----------|------------|---------|--------------|---------|
| Frequency (MHz) | Live       | <b>;</b> | Neutral    |         | $(dB \mu V)$ |         |
| (WITIZ)         | Quasi-peak | Average  | Quasi-peak | Average | Quasi-peak   | Average |
| 0.272           |            |          | 42.43      | 22.03   | 61.06        | 51.06   |
| 0.450           |            |          | 36.92      | 16.72   | 56.86        | 46.86   |
| 0.642           |            |          | 35.22      | 17.82   | 56.00        | 46.00   |
| 1.194           |            |          | 34.18      | 18.08   | 56.00        | 46.00   |
| 1.723           |            |          | 34.59      | 18.89   | 56.00        | 46.00   |
| 2.565           |            |          | 32.73      | 11.33   | 56.00        | 46.00   |

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



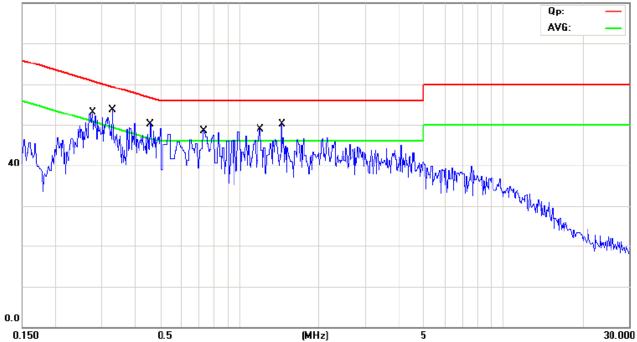
**EUT set Condition:** Play SD

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

**Results: Pass** 





| E               |            | Reading  |            | Limit   |              |         |
|-----------------|------------|----------|------------|---------|--------------|---------|
| Frequency (MHz) | Live       | <b>;</b> | Neutral    |         | $(dB \mu V)$ |         |
| (MITZ)          | Quasi-peak | Average  | Quasi-peak | Average | Quasi-peak   | Average |
| 0.276           | 46.93      | 30.13    |            |         | 60.94        | 50.94   |
| 0.328           | 43.29      | 22.79    |            |         | 59.50        | 49.50   |
| 0.457           | 39.43      | 20.63    |            |         | 56.73        | 46.73   |
| 0.730           | 39.41      | 24.01    |            |         | 56.00        | 46.00   |
| 1.191           | 37.78      | 20.68    |            |         | 56.00        | 46.00   |
| 1.442           | 38.18      | 24.08    |            |         | 56.00        | 46.00   |



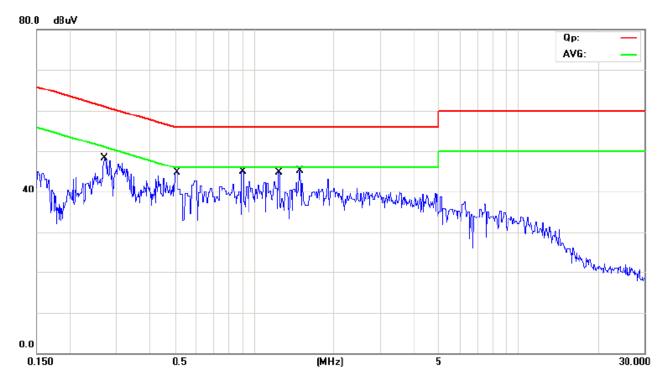
## D: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Play SD

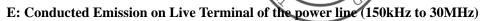
Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

Results: Pass



| Fraguenay       |            | Reading | Limi       | t       |            |         |
|-----------------|------------|---------|------------|---------|------------|---------|
| Frequency (MHz) | Live       |         | Neutral    |         | (dB µ V)   |         |
| (MHZ)           | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average |
| 0.272           |            |         | 42.23      | 12.83   | 61.05      | 51.05   |
| 0.507           |            |         | 38.78      | 12.68   | 56.00      | 46.00   |
| 0.900           |            |         | 34.69      | 18.09   | 56.00      | 46.00   |
| 1.237           |            |         | 33.59      | 10.19   | 56.00      | 46.00   |
| 1.484           |            |         | 34.39      | 17.59   | 56.00      | 46.00   |

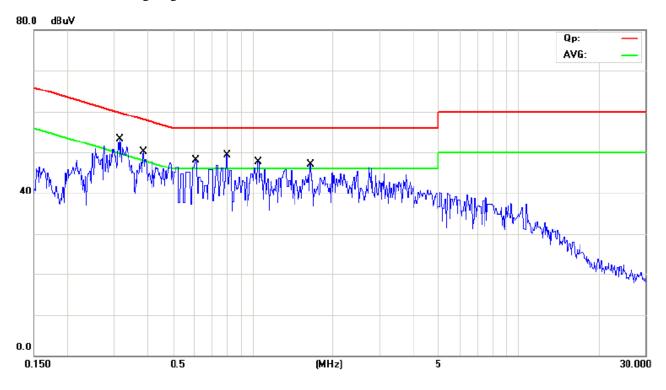


EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Eng guy om ovy  |            | Reading  | Limit      |         |              |         |
|-----------------|------------|----------|------------|---------|--------------|---------|
| Frequency (MHz) | Live       | <b>;</b> | Neutral    |         | $(dB \mu V)$ |         |
| (WITIZ)         | Quasi-peak | Average  | Quasi-peak | Average | Quasi-peak   | Average |
| 0.313           | 43.87      | 21.97    |            |         | 59.89        | 49.89   |
| 0.385           | 43.15      | 24.45    |            |         | 58.16        | 48.16   |
| 0.608           | 39.48      | 22.08    |            |         | 56.00        | 46.00   |
| 0.797           | 38.29      | 22.59    |            |         | 56.00        | 46.00   |
| 1.046           | 38.12      | 22.92    |            |         | 56.00        | 46.00   |
| 1.644           | 36.46      | 23.46    |            |         | 56.00        | 46.00   |



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

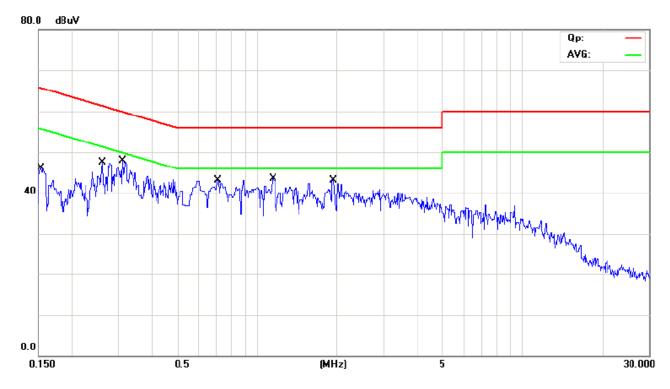
EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual



| Engguenav       |            | Reading  | Limit      |         |            |         |
|-----------------|------------|----------|------------|---------|------------|---------|
| Frequency (MHz) | Live       | <b>;</b> | Neutr      | al      | (dB µ V)   |         |
| (MHZ)           | Quasi-peak | Average  | Quasi-peak | Average | Quasi-peak | Average |
| 0.153           |            |          | 39.40      | 16.80   | 65.18      | 55.18   |
| 0.260           |            |          | 41.32      | 23.02   | 61.42      | 51.42   |
| 0.314           |            |          | 39.77      | 19.37   | 59.86      | 49.86   |
| 0.711           |            |          | 36.69      | 19.99   | 56.00      | 46.00   |
| 1.148           |            |          | 33.36      | 19.26   | 56.00      | 46.00   |
| 1.926           |            |          | 34.17      | 11.37   | 56.00      | 46.00   |

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

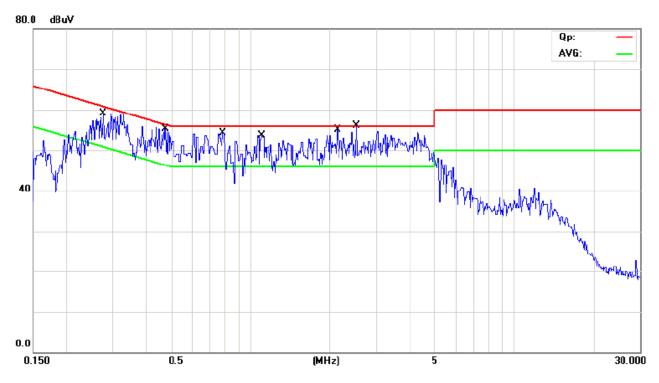


EUT set Condition: Connected to PC

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Engavenery      |            | Reading  | (dB \mu V) |         | Limit      |         |
|-----------------|------------|----------|------------|---------|------------|---------|
| Frequency (MHz) | Live       | <b>;</b> | Neutr      | al      | (dB μ      | V)      |
| (MHZ)           | Quasi-peak | Average  | Quasi-peak | Average | Quasi-peak | Average |
| 0.275           | 51.73      | 25.63    |            |         | 60.59      | 50.59   |
| 0.472           | 47.64      | 27.54    |            |         | 56.46      | 46.46   |
| 0.787           | 45.27      | 25.47    |            |         | 56.00      | 46.00   |
| 1.102           | 45.04      | 26.54    |            |         | 56.00      | 46.00   |
| 2.138           | 44.16      | 26.16    |            |         | 56.00      | 46.00   |
| 2.511           | 43.20      | 23.50    |            |         | 56.00      | 46.00   |



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

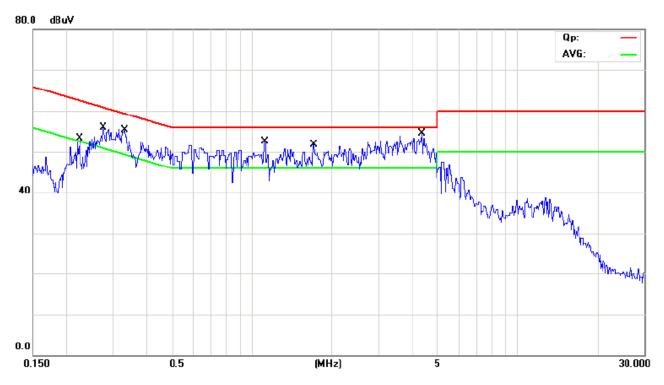
EUT set Condition: Connected to PC

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Working Voltage: 120V~ 60Hz

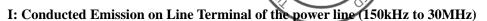
Results: Pass

Please refer to following diagram for individual



| Engguenav       |            | Reading | Limit      |         |            |         |
|-----------------|------------|---------|------------|---------|------------|---------|
| Frequency (MHz) | Live       | ;       | Neutr      | al      | (dB µ V)   |         |
| (WITIZ)         | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average |
| 0.224           |            |         | 42.68      | 19.08   | 62.67      | 52.67   |
| 0.275           |            |         | 49.93      | 18.23   | 60.96      | 50.96   |
| 0.331           |            |         | 49.39      | 17.49   | 56.00      | 46.00   |
| 1.116           |            |         | 44.05      | 14.85   | 56.00      | 46.00   |
| 1.700           |            |         | 43.18      | 13.28   | 56.00      | 46.00   |
| 4.353           |            |         | 45.44      | 23.14   | 56.00      | 46.00   |

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

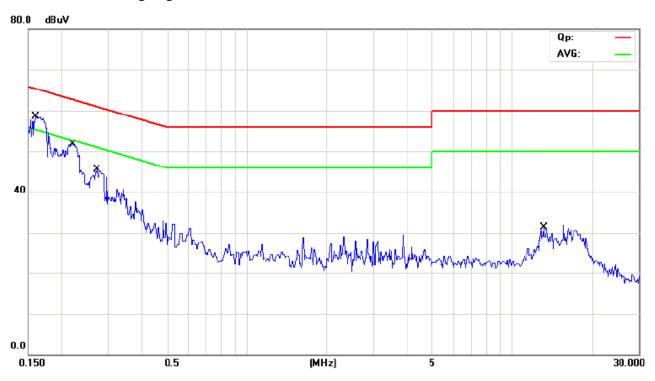


EUT set Condition: Memory

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Eraguanav          |            | Reading | Limit      |         |            |         |
|--------------------|------------|---------|------------|---------|------------|---------|
| Frequency<br>(MHz) | Live       | ;       | Neutral    |         | (dB µ V)   |         |
| (WITIZ)            | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average |
| 0.161              | 53.11      | 17.81   |            |         | 65.37      | 55.37   |
| 0.220              | 45.37      | 17.77   |            |         | 62.81      | 52.81   |
| 0.272              | 35.53      | 12.83   |            |         | 61.03      | 51.03   |
| 13.098             | 24.14      | 14.94   |            |         | 60.00      | 50.00   |



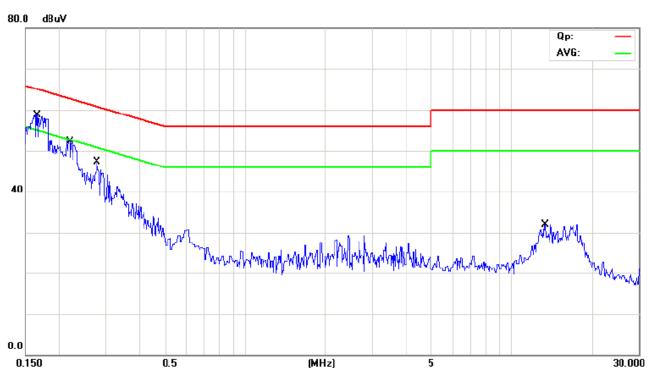
## J: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Memory

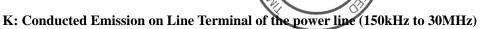
Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Engguenav       |            | Reading | Limit      |         |              |         |
|-----------------|------------|---------|------------|---------|--------------|---------|
| Frequency (MHz) | Live       | ;       | Neutral    |         | $(dB \mu V)$ |         |
| (MHZ)           | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak   | Average |
| 0.165           |            |         | 53.32      | 21.92   | 65.20        | 55.20   |
| 0.219           |            |         | 45.87      | 18.17   | 62.85        | 52.85   |
| 0.277           |            |         | 40.83      | 13.43   | 60.90        | 50.90   |
| 13.295          |            |         | 25.13      | 16.23   | 60.00        | 50.00   |

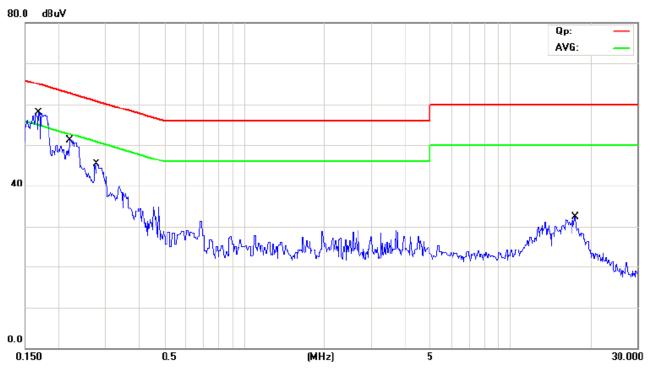


EUT set Condition: Play SD

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

Results: Pass



| Enaguanay          |            | Reading | Limit      |         |            |          |  |
|--------------------|------------|---------|------------|---------|------------|----------|--|
| Frequency<br>(MHz) | Live       | Live    |            | Neutral |            | (dB µ V) |  |
| (WITIZ)            | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average  |  |
| 0.167              | 52.82      | 25.82   |            |         | 65.10      | 55.10    |  |
| 0.219              | 41.57      | 23.77   |            |         | 62.83      | 52.83    |  |
| 0.278              | 39.64      | 19.44   |            |         | 60.86      | 50.86    |  |
| 17.488             | 25.50      | 16.70   |            |         | 60.00      | 50.00    |  |



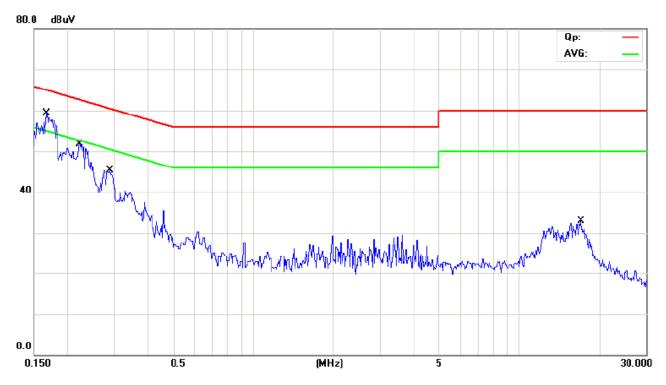
## L: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Play SD

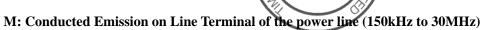
Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Eroguanav       |            | Reading | Limit      |         |            |              |  |
|-----------------|------------|---------|------------|---------|------------|--------------|--|
| Frequency (MHz) | Live       | Live    |            | Neutral |            | $(dB \mu V)$ |  |
| (WITIZ)         | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average      |  |
| 0.166           |            |         | 52.72      | 25.52   | 65.15      | 55.15        |  |
| 0.222           |            |         | 43.82      | 22.78   | 62.74      | 52.74        |  |
| 0.290           |            |         | 40.56      | 22.05   | 60.52      | 50.52        |  |
| 17.041          |            |         | 25.52      | 16.02   | 60.00      | 50.00        |  |

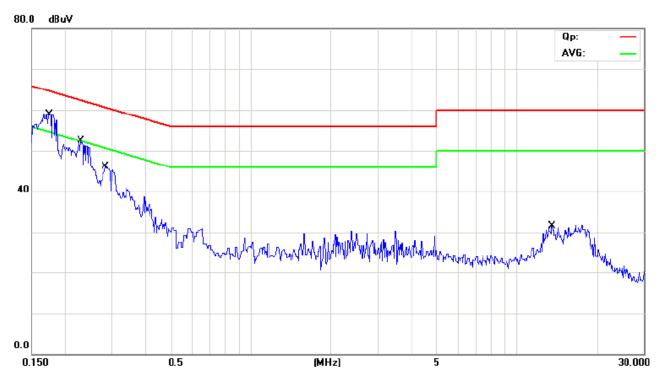


EUT set Condition: Play USB

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

Results: Pass



| Eraguanay       |            | Reading | (dB μ V)   |         | Limit        |         |
|-----------------|------------|---------|------------|---------|--------------|---------|
| Frequency (MHz) | Live       | ;       | Neutral    |         | $(dB \mu V)$ |         |
| (WITIZ)         | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak   | Average |
| 0.173           | 54.62      | 31.52   |            |         | 64.80        | 54.80   |
| 0.229           | 46.88      | 25.38   |            |         | 62.48        | 52.48   |
| 0.283           | 39.84      | 19.64   |            |         | 60.72        | 50.72   |
| 13.481          | 24.13      | 14.23   |            |         | 60.00        | 50.00   |



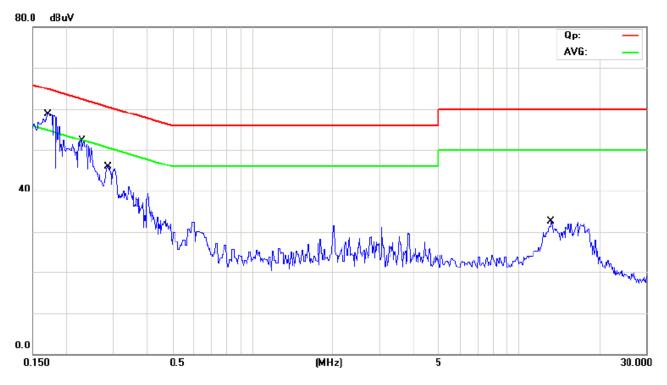
## N: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Play USB

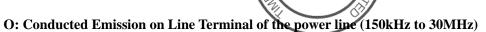
Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Enaguanav          |            | Reading | Limit      |         |              |         |
|--------------------|------------|---------|------------|---------|--------------|---------|
| Frequency<br>(MHz) | Live       | ;       | Neutral    |         | $(dB \mu V)$ |         |
| (MHZ)              | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak   | Average |
| 0.171              |            |         | 53.92      | 36.52   | 64.90        | 54.90   |
| 0.228              |            |         | 45.08      | 26.28   | 62.50        | 52.50   |
| 0.285              |            |         | 40.84      | 22.84   | 60.65        | 50.65   |
| 13.220             |            |         | 26.04      | 17.34   | 60.00        | 50.00   |

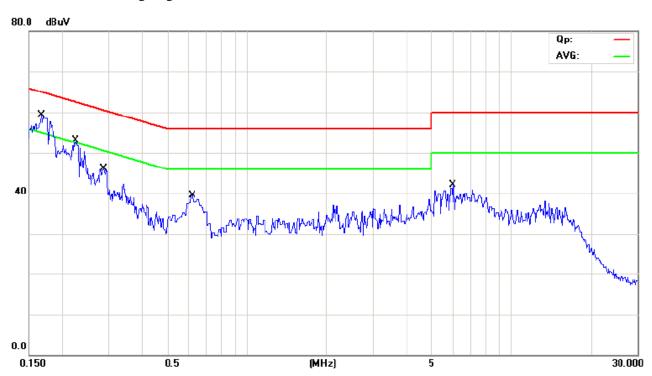


EUT set Condition: Connect to PC

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Enganoman       |            | Reading | (dB μ V)   | υ V)    |            | Limit   |  |
|-----------------|------------|---------|------------|---------|------------|---------|--|
| Frequency (MHz) | Live       | ;       | Neutr      | al      | (dB µ      | V)      |  |
| (WITIZ)         | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average |  |
| 0.165           | 53.52      | 33.32   |            |         | 65.18      | 55.18   |  |
| 0.224           | 43.38      | 27.58   |            |         | 62.67      | 52.67   |  |
| 0.287           | 41.35      | 23.85   |            |         | 60.60      | 50.60   |  |
| 0.620           | 33.60      | 20.30   |            |         | 56.00      | 46.00   |  |
| 6.038           | 36.06      | 31.26   |            |         | 60.00      | 50.00   |  |



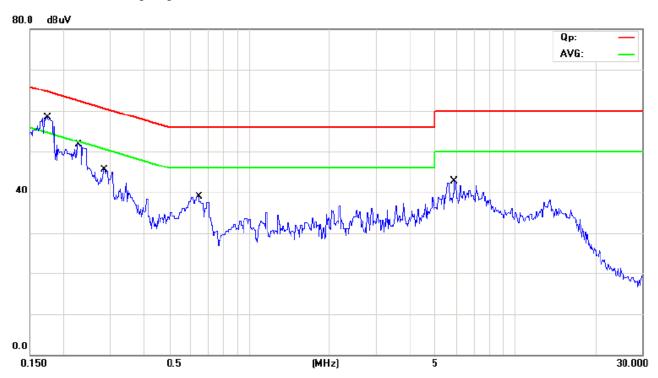
## P: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connect to PC

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

**Results:** Pass



| Eraguanav          |            | Reading | Limit      |         |            |         |
|--------------------|------------|---------|------------|---------|------------|---------|
| Frequency<br>(MHz) | Live       | ;       | Neutral    |         | (dB µ V)   |         |
| (MHZ)              | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average |
| 0.173              |            |         | 54.62      | 36.52   | 64.79      | 54.79   |
| 0.228              |            |         | 45.48      | 25.78   | 62.52      | 52.52   |
| 0.285              |            |         | 40.94      | 21.24   | 60.65      | 50.65   |
| 0.639              |            |         | 35.92      | 24.42   | 56.00      | 46.00   |
| 5.911              |            |         | 35.72      | 28.22   | 60.00      | 50.00   |

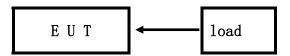
Page 25 of 54

Report No: 0904101 Date: 2009-04-22



#### 5.0 Radiated Disturbance Test

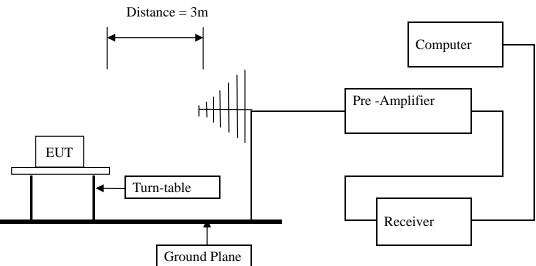
#### 5.1 Schematics of the test



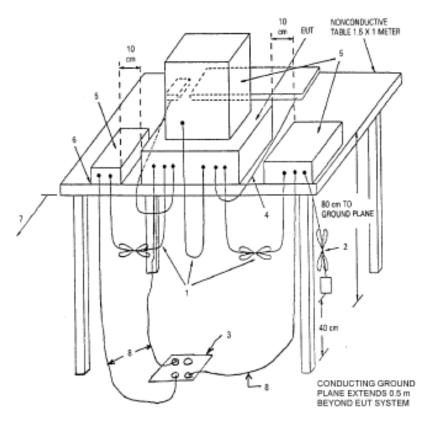
#### 5.2 Test Method and test Procedure:

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.

## **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.

Page 27 of 54

Report No: 0904101 Date: 2009-04-22



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

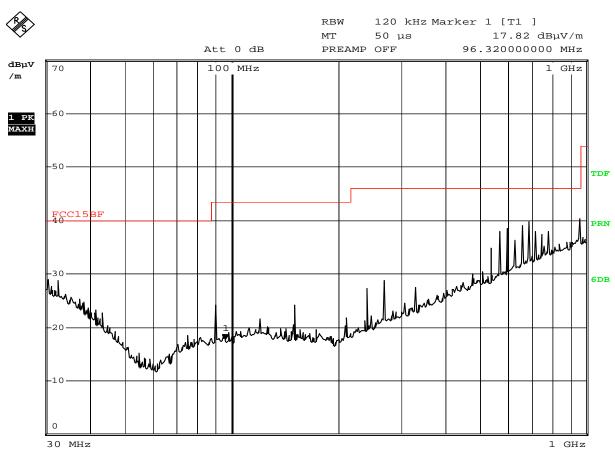
EUT set Condition: Memory

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 10:34:04

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 660.040         | 39.74             | Н                | 46.00             |
| 270.000         | 28.71             | Н                | 46.00             |

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

Page 28 of 54

Report No: 0904101 Date: 2009-04-22



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

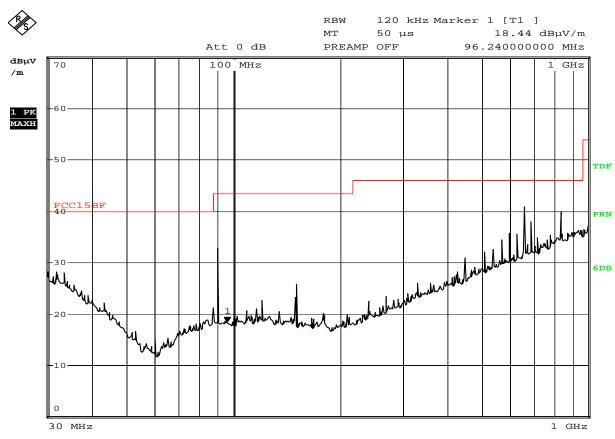
EUT set Condition: Memory

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 10:37:27

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 660.040         | 40.90             | V                | 46.00             |
| 90.000          | 32.88             | V                | 43.50             |

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



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

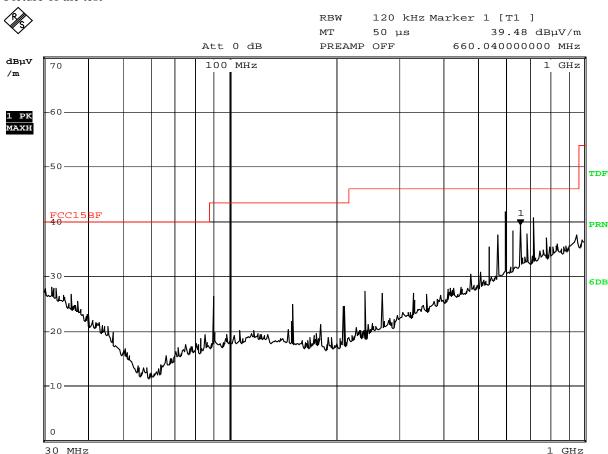
EUT set Condition: Play SD

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 10:48:51

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 600.040         | 41.85             | Н                | 46.00             |
| 720.040         | 40.61             | Н                | 46.00             |
| 660.040         | 39.48             | Н                | 46.00             |

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

Page 30 of 54

Report No: 0904101 Date: 2009-04-22



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

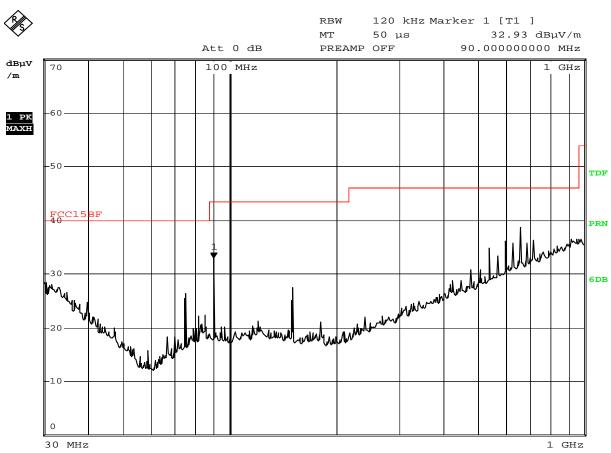
EUT set Condition: Play SD

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 10:51:13

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m ( $dB\mu V/m$ ) |
|-----------------|-------------------|------------------|--------------------------|
| 660.040         | 38.70             | V                | 46.00                    |
| 90.000          | 32.93             | V                | 43.50                    |

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



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

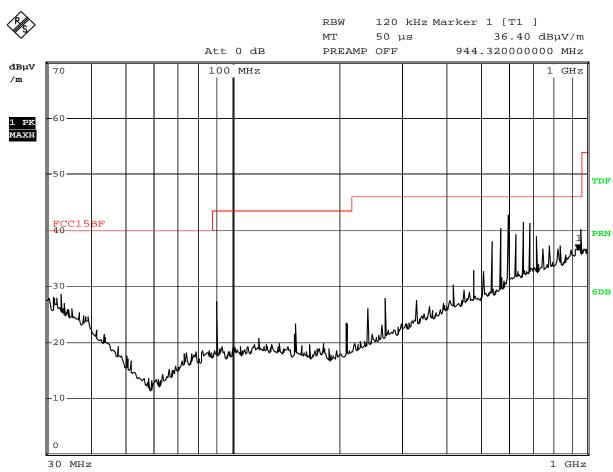
EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 11:06:42

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 90.00           | 27.33             | Н                | 43.50             |
| 600.00          | 40.50             | Н                | 46.00             |
| 660.04          | 41.40             | Н                | 46.00             |

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

Page 32 of 54

Report No: 0904101 Date: 2009-04-22



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

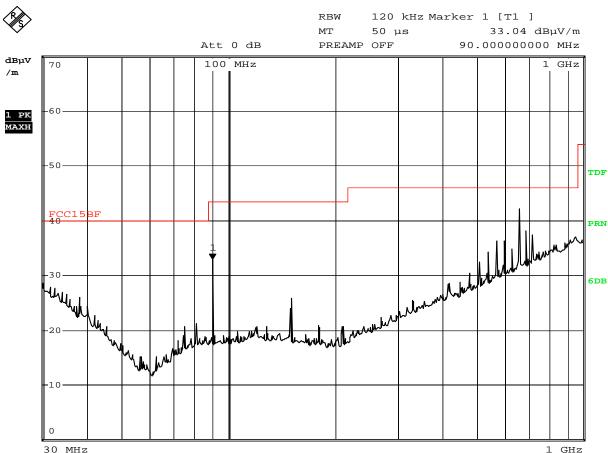
EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 10:54:20

| Frequency (MHz) | Level@3m ( $dB\mu V/m$ ) | Antenna Polarity | $Limit@3m (dB\mu V/m)$ |
|-----------------|--------------------------|------------------|------------------------|
| 90.000          | 30.40                    | V                | 43.50                  |
| 660.040         | 42.14                    | V                | 46.00                  |
| 690.040         | 38.04                    | V                | 46.00                  |

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



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

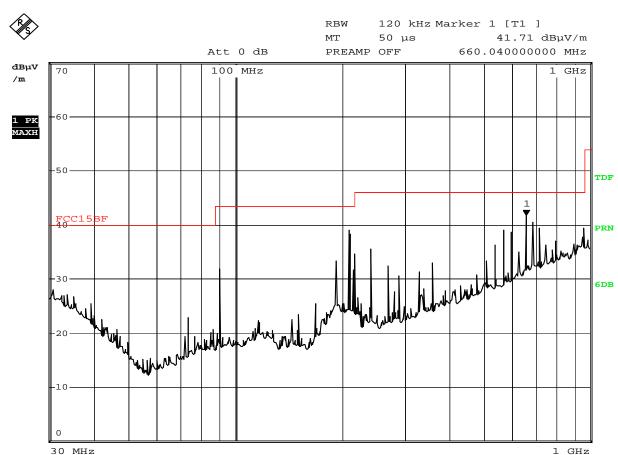
EUT set Condition: Connect to PC

Adaptor used for test Model No.: ADS-12G-06 05010GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Comment: H

Date: 16.APR.2009 22:40:52

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 90.000          | 31.85             | Н                | 43.50             |
| 210.000         | 39.04             | Н                | 43.50             |
| 660.040         | 41.71             | Н                | 46.00             |

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

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The Shenzhen Timeway Technology Consulting co., Ltd reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



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

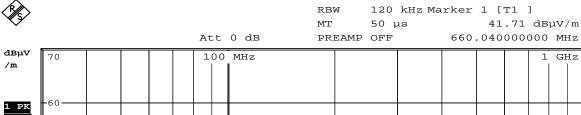
**EUT set Condition:** Connect to PC

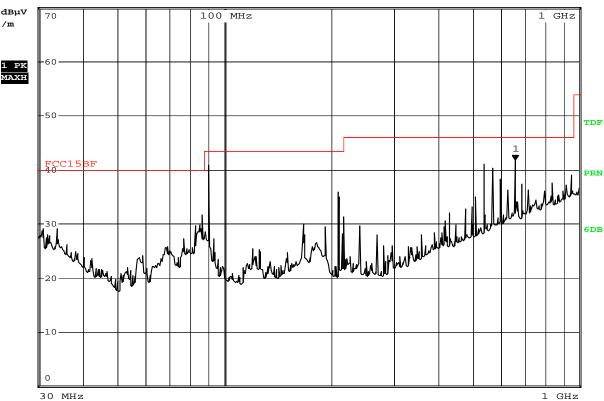
Model No.: ADS-12G-06 05010GPCU Adaptor used for test

Level: Class B **Results: PASS** 

Please refer to following diagram for individual

Picture of the test





Comment: H

16.APR.2009 22:38:58 Date:

| Frequency (MHz) | Level@3m ( $dB\mu V/m$ ) | Antenna Polarity | Limit@3m ( $dB\mu V/m$ ) |
|-----------------|--------------------------|------------------|--------------------------|
| 90.000          | 40.97                    | V                | 43.50                    |
| 660.040         | 41.71                    | V                | 46.00                    |

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

1 GHz

Report No: 0904101 Date: 2009-04-22



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

EUT set Condition: Connect to PC

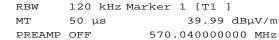
Adaptor used for test Model No.: XKD-C2000IC5.0-12W

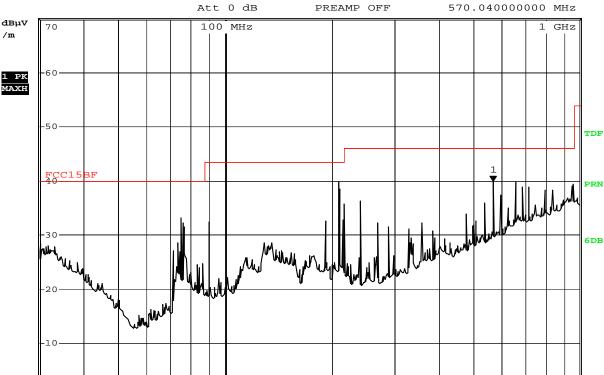
Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test







Comment: H

30 MHz

Date: 16.APR.2009 22:33:18

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 75.160          | 33.18             | Н                | 40.00             |
| 210.000         | 39.79             | Н                | 43.50             |
| 570.040         | 39.99             | Н                | 46.00             |

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

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The Shenzhen Timeway Technology Consulting co., Ltd reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



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

**EUT set Condition:** Connect to PC

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

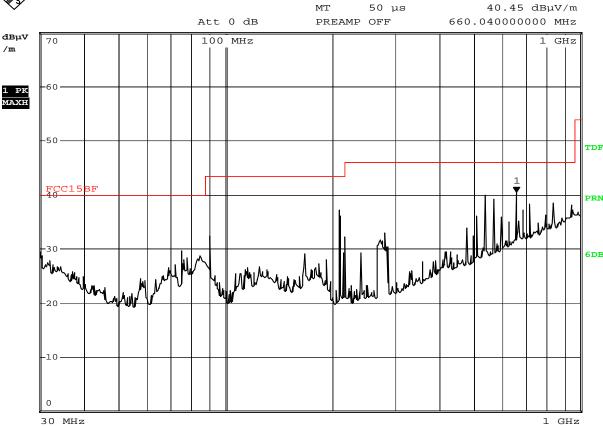
Level: Class B **Results: PASS** 

Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1 ]

50 µs 40.45 dBµV/m



Comment: H

16.APR.2009 22:35:59 Date:

|   | Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|---|-----------------|-------------------|------------------|-------------------|
|   | 90.000          | 32.38             | V                | 43.50             |
| Ī | 210.000         | 37.23             | V                | 43.50             |
| Ī | 660.040         | 40.45             | V                | 46.00             |

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

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The Shenzhen Timeway Technology Consulting co., Ltd reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



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

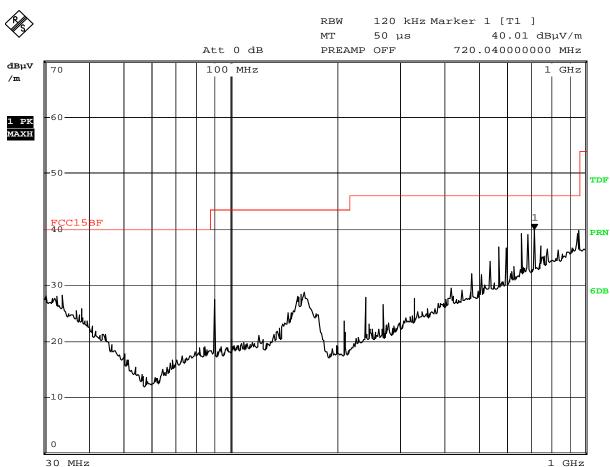
EUT set Condition: Memory

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 11:30:40

| Frequency (MHz) | Level@3m ( $dB\mu V/m$ ) | Antenna Polarity | Limit@3m ( $dB\mu V/m$ ) |
|-----------------|--------------------------|------------------|--------------------------|
| 161.120         | 28.69                    | Н                | 43.50                    |
| 720.040         | 40.01                    | Н                | 46.00                    |

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



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

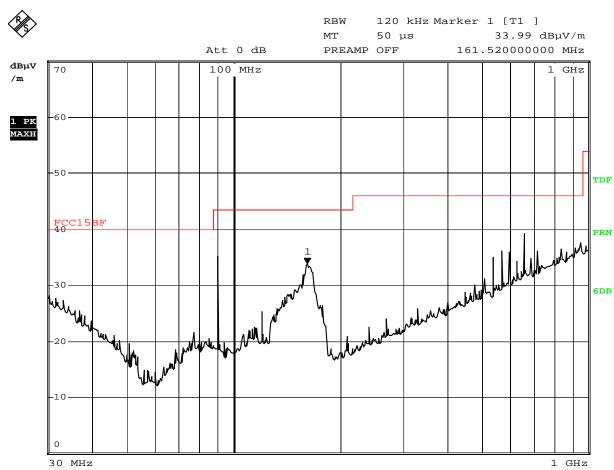
EUT set Condition: Memory

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 11:19:00

| Ī | Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|---|-----------------|-------------------|------------------|-------------------|
|   | 660.040         | 39.21             | V                | 46.00             |
|   | 90.000          | 35.22             | V                | 43.50             |
| Ī | 161.520         | 33.99             | V                | 43.50             |

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

Page 39 of 54

1 GHz

Report No: 0904101 Date: 2009-04-22



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

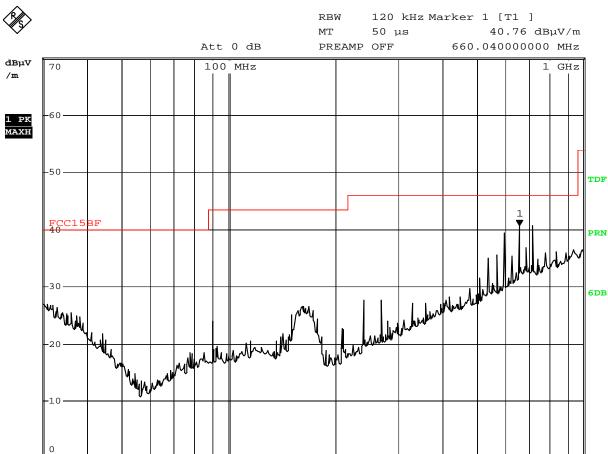
EUT set Condition: Play SD

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 11:51:36

30 MHz

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 720.040         | 41.51             | Н                | 46.00             |
| 660.040         | 40.76             | Н                | 46.00             |

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



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

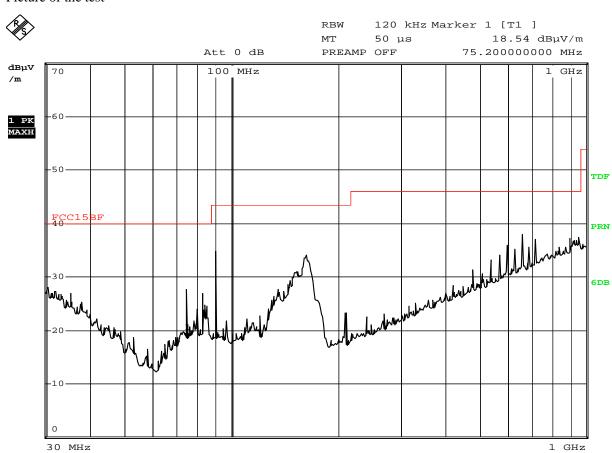
EUT set Condition: Play SD

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 11:44:50

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 660.040         | 38.84             | V                | 46.00             |
| 161.480         | 34.37             | V                | 43.50             |
| 90.000          | 34.58             | V                | 43.50             |
| 74.920          | 30.66             | V                | 40.00             |

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

1 GHz

Report No: 0904101 Date: 2009-04-22



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

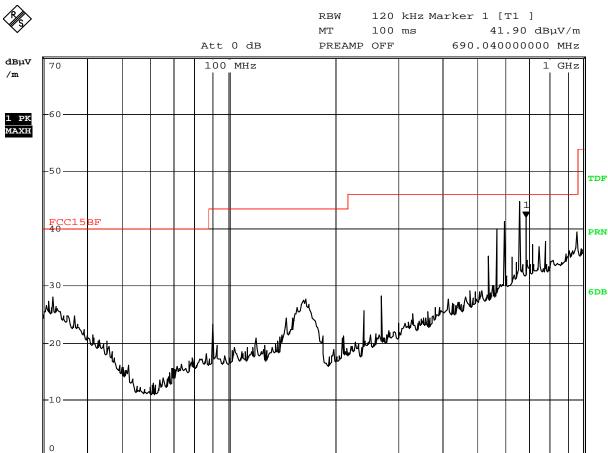
EUT set Condition: Play USB

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 16.APR.2009 12:02:34

30 MHz

| Frequency (MHz) | Level@3m ( $dB\mu V/m$ ) | Antenna Polarity | Limit@3m ( $dB\mu V/m$ ) |
|-----------------|--------------------------|------------------|--------------------------|
| 660.040         | 44.80                    | Н                | 46.00                    |
| 690.040         | 41.90                    | Н                | 46.00                    |

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



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

**EUT set Condition:** Play USB

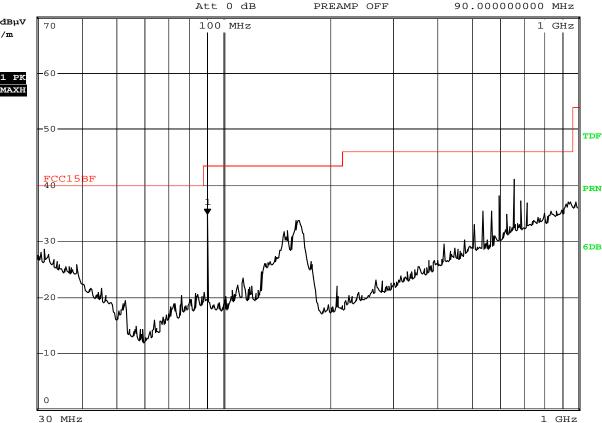
Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Level: Class B **Results: PASS** 

Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1 ] 50 µs МТ  $34.73 \text{ dB}\mu\text{V/m}$ Att 0 dB PREAMP OFF 90.00000000 MHz dΒμV 70 100 MHz



16.APR.2009 12:05:15 Date:

| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| 660.040         | 41.13             | V                | 46.00             |
| 160.480         | 33.20             | V                | 43.50             |
| 90.000          | 34.73             | V                | 43.50             |

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

Page 43 of 54

Report No: 0904101 Date: 2009-04-22



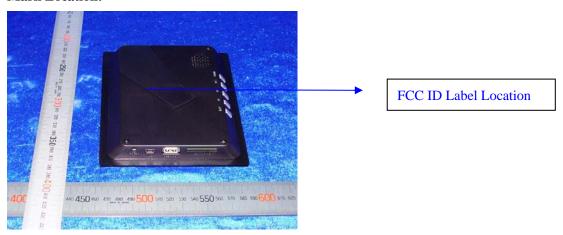
## 6.0 FCC ID Label

# FCC ID: V37-5DINCHAML7213

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:**





# Photo of testing

#### 7.1 Conducted test View—

## Connect to PC



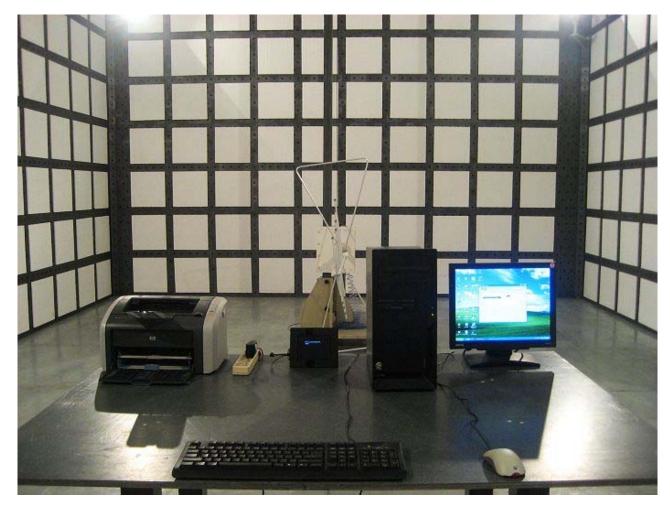
Page 45 of 54

Report No: 0904101 Date: 2009-04-22



#### 7.2 Radiated emission test view--

## Connect to PC

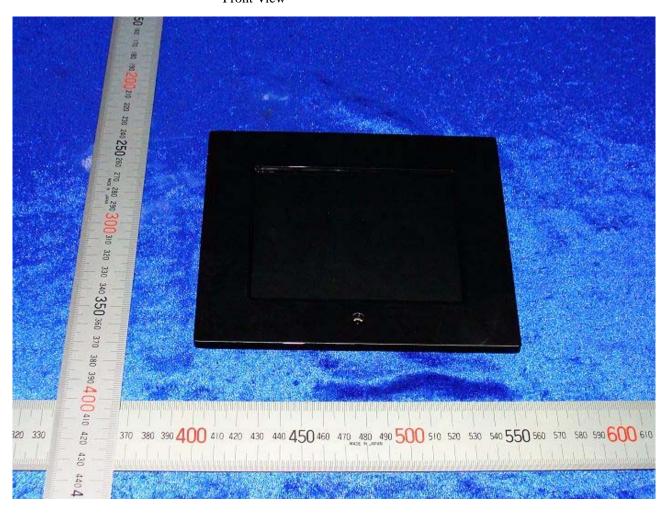


Page 46 of 54

Report No: 0904101 Date: 2009-04-22



## 7.3 Photo for the EUT



Page 47 of 54





Page 48 of 54





Page 49 of 54





Page 50 of 54





Page 51 of 54





Page 52 of 54





Page 53 of 54





Page 54 of 54

Report No: 0904101 Date: 2009-04-22





# -End of the report-