

# FCC 47 CFR PART 15 SUBPART B **TEST REPORT**

For

Applicant: DIGILINK GROUP CO., LTD

3F, Block A2, Huayi Industrial zone, Bao an district, Address : Shenzhen, China

**Product Name: MP5 player** 

Model Name: DM302

Brand Name: N/A

FCC ID: XX9-DM302

Report No.: STS091110F2

Date of Issue: November. 27, 2009

Issued by: Shenzhen Super Test Service Technology Co., Ltd.

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#### 1. VERIFICATION OF CONFORMITY

**Equipment Under Test:** MP5 player

Brand Name: N/A

Model Number: DM302

Series Model Name: N/A

**Series Model Difference** 

N/A

description:

FCC ID:

XX9-DM302

Applicant: DIGILINK GROUP CO., LTD

3F, Block A2, Huayi Industrial zone, Bao an district, Shenzhen, China

Manufacturer: DIGILINK GROUP CO., LTD

3F, Block A2, Huayi Industrial zone, Bao an district, Shenzhen, China

**Technical Standards:** FCC Part 15 B **File Number:** STS091110F2

Date of test: November. 25 - November. 27, 2009

Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

July Wen

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Petter Ping November. 27, 2009

Review by (+ signature):

November. 27, 2009

Approved by (+ signature):

Terry Yang November. 27, 2009

## 2. GENERAL INFORMATION

## 2.1 PRODUCT INFORMATION

EUT- Bluetooth headset	
Description:	MP5 player
Model Name:	DM302
Series Number:	N/A
Model Difference description:	Just the internal storage capacity is different.
Power Supply:	DC 3.7V by Battery or by charger(Input AC120V60Hz,Output DC 5.0V)
Frequency Range:	88MHz – 108MHz
Channel Number:	100
Channel Spacing:	200 KHz
Antenna Gain:	0.1 dB
Modulation Technique:	FM
Temperature Range:	-10°C ~ +55°C

## NOTE:

1. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

### 2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

## 2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

EMISSION							
Standard Item Result Remarks							
FCC 47 CFR Part 15 Subpart B (10-1-05 Edition)	§15.107	Conducted Emission	PASS	Meet Class B limit			
	§15.109	Radiated Emission	PASS	Meet Class B limit			

Note:

- 1. The test result judgment is decided by the limit of measurement standard
- 2. The information of measurement uncertainty is available upon the customer's request.

## 2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

#### 3. TEST METHODOLOGY

#### 3. 1TEST FACILITY

Test Site: Most Technology Service Co.,ltd

Location: Add: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park ,Nanshan

Shenzhen Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16

requirements. The FCC Registration Number is 490827.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements

that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

## 3.2 GENERAL TEST PROCEDURES

#### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

## Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

#### 3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110  10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	16.42 - 16.423	399.9 - 410	4.5 - 5.15
	16.69475 - 16.69525	608 - 614	5.35 - 5.46
	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
	25.5 - 25.67	1300 - 1427	8.025 - 8.5
	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
	74.8 - 75.2	1660 - 1710	10.6 - 12.7
	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
	123 - 138	2200 - 2300	14.47 - 14.5
	149.9 - 150.05	2310 - 2390	15.35 - 16.2
	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
	156.7 - 156.9	2655 - 2900	22.01 - 23.12
	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
	167.72 - 173.2	3332 - 3339	31.2 - 31.8
	240 - 285	3345.8 - 3358	36.43 - 36.5
	322 - 335.4	3600 - 4400	(²)

<sup>&</sup>lt;sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

<sup>&</sup>lt;sup>2</sup> Above 38.6

## **4 SETUP OF EQUIPMENT UNDER TEST**

## **4.1 SETUP CONFIGURATION OF EUT**

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

## **4.2 SUPPORT EQUIPMENT**

Device Type	Brand	Model	FCC ID	Series No.	Data Cable	Power Cord
USB Cable		1			Un-shielding 1.2M	N/A
Audio Cable					Un-shielding 1.2M	N/A
Video Cable		-			Un-shielding 1.2M	N/A
Earphone		1			Un-shielding 1.5M	N/A
Adapter		LD-005			N/A	N/A

#### Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## **4.3 TEST EQUIPMENT LIST**

**Instrumentation:** The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calculator due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2010/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2010/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2010/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2010/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2010/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2010/03/14
7	Bilog Antenna	Sunol	JB3	A121206	2010/03/14
8	Test Antenna - Horn	Schwarzbeck	BBHA 9120C		2010/03/14
9	Test Antenna - Bi-Log	Schwarzbeck	VULB 9163		2010/03/14
10	Cable	Resenberger	N/A	NO.1	2010/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2010/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2010/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2010/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2010/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2010/03/14
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2010/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2010/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2010/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2010/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2010/03/14
21	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2010/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2010/03/14
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2010/03/14
24	Signal Generator	IFR	2032	203002/100	2010/03/14
25	Amplifier	A&R	150W1000	301584	2010/03/14
26	CDN	FCC	FCC-801-M2-25	47	2010/03/14
27	CDN	FCC	FCC-801-M3-25	107	2010/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2010/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2010/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2010/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2010/03/14

NOTE: Equipments listed above have been calibrated and are in the period of validation.

## 5. 47 CFR PART 15B REQUIREMENTS

#### **5.1 GENERAL INFORMATION**

#### **EUT Function and Test Mode**

The EUT has been tested under normal working.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the function were tested but only the worst test data of the worst mode is reported by this report.

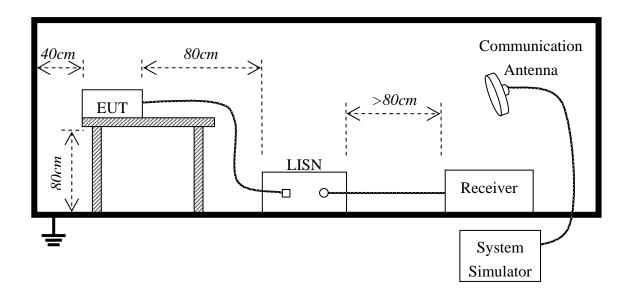
## 6. LINE CONDUCTED EMISSION TEST

## 6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguency	Maximum RF	Line Voltage
Frequency	Q.P.( dBuV)	Average( dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

<sup>\*\*</sup>Note: 1. the lower limit shall apply at the transition frequency.

## 6.2. BLOCK DIAGRAM OF TEST SETUP



<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

#### 6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test							
Frequency Ran	ge Investigated		150KHz TO 30 MHz				
Mode of operation	Date	Report No.	Data#	Worst Mode			
Standby Mode	November. 26, 2009	STS091110F1	1_ (L,N)				
Mp3 Mode	November. 26, 2009	STS091110F1	2_ (L,N)				
FM Mode	November. 26, 2009	STS091110F1	3_ (L,N)				
Rmvb Mode	November. 26, 2009	STS091110F1	4_ (L,N)				
Photo Mode	November. 26, 2009	STS091110F1	5_ (L,N)				
E-book Mode	November. 26, 2009	STS091110F1	6_ (L,N)				
PC Mode	November. 26, 2009	STS091110F1	7_ (L,N)	<b>A</b>			

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test data of the worst case condition(s) was reported on the Summary Data page.

## 6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

 EUT
 :
 MP5 player
 Power
 :
 AC 120V

 M/N
 :
 DM302
 Temperature
 :
 27 °C

 Mode
 :
 PC Mode
 Humidity
 :
 60%

FREQ MHz	Q.P. RAW dBuV	AVG RAW dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	NOTE
0.170	61.37	51.58	64.96	54.96	-3.59	-3.38	L
0.254	59.14	45.87	61.63	51.63	-2.49	-5.76	L
0.334	56.17	44.75	59.35	49.35	-3.18	-4.60	L
1.262	53.34	41.34	56.00	46.00	-2.66	-4.66	L
0.166	62.89	51.94	65.16	55.16	-2.27	-3.22	N
0.250	57.48	47.04	61.76	51.76	-4.28	-4.72	N
0.338	56.34	45.53	59.25	49.25	-2.91	-3.72	N
0.422	53.35	44.82	57.41	47.41	-4.06	-2.59	N
3.050	51.17	41.18	56.00	46.00	-4.83	-4.82	N

Freq. = Emission frequency in MHz

Reading level = Uncorrected Analyzer/Receiver reading

Factor = Cable loss + LISN inserting loss

Emission level = Reading level + Factor

Limit = Limit stated in standard

Margin = Reading in reference to limit

"---" = The emission level complied with the Average limits, with

at least 2 dB margin, so no further recheck.

#### 7. RADIATED EMISSION TEST

#### 7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

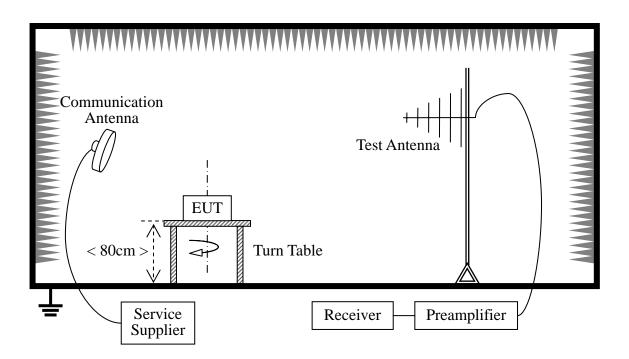
According to FCC section 15.109, except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

#### 7.2 TEST DESCRIPTION

#### **Test Setup:**



The EUT is powered by the Battery. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and transmitting with the other Bluetooth device (Supply by the Applicant)

during the test.

#### For the Test Antenna:

(a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

Preliminary Conducted Emission Test							
Frequency Ran	ge Investigated		150KHz TO 30 MHz				
Mode of operation	Date	Report No.	Data#	Worst Mode			
Standby Mode	November. 26, 2009	STS091110F1	1_ (H,V)				
Mp3 Mode	November. 26, 2009	STS091110F1	2_(H,V)				
FM Mode	November. 26, 2009	STS091110F1	3_(H,V)				
Rmvb Mode	November. 26, 2009	STS091110F1	4_ (H,V)				
Photo Mode	November. 26, 2009	STS091110F1	5_ (H,V)				
E-book Mode	November. 26, 2009	STS091110F1	6_ (H,V)				
PC Mode	November. 26, 2009	STS091110F1	7_ (H,V)	<b>A</b>			

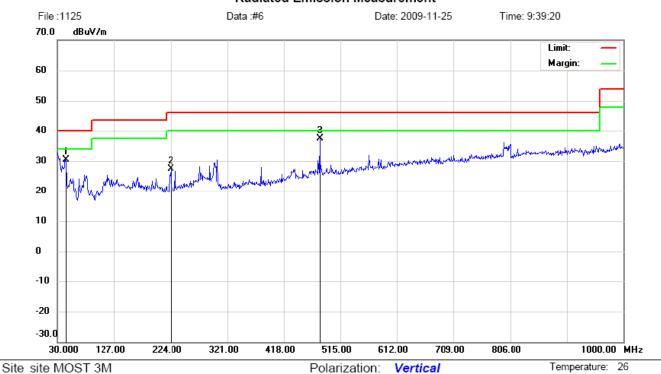
## 7.3 TEST RESULT

 EUT
 :
 MP5 player
 Power
 :
 AC 120V

 M/N
 :
 DM302
 Temperature
 :
 27 °C

 Mode
 :
 PC Mode
 Humidity
 :
 60%

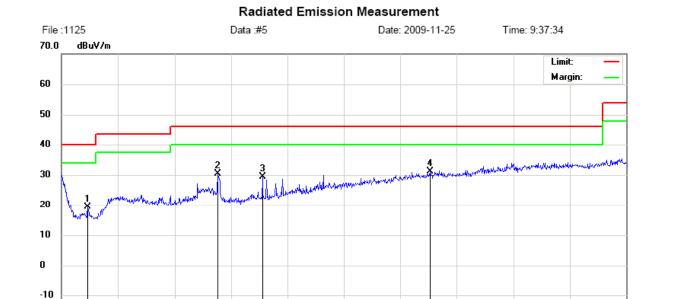
#### Radiated Emission Measurement



No. M	k. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	43.5800	15.97	14.51	30.48	40.00	-9.52	peak			
2	224.0000	10.93	16.38	27.31	46.00	-18.69	peak			
3 *	480.0800	15.79	21.70	37.49	46.00	-8.51	peak			

#### Note:

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors.



Site site MOST 3M Polarization: Horizontal Temperature: 26

515.00

612.00

709.00

806.00

1000.00 MHz

418.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		74.6200	7.64	11.65	19.29	40.00	-20.71	peak			
2		297.7200	10.98	19.30	30.28	46.00	-15.72	peak			
3		375.3200	11.24	18.24	29.48	46.00	-16.52	peak			
4	*	663.4099	6.79	24.27	31.06	46.00	-14.94	peak			

## Note:

-20 -30.0 30.000

127.00

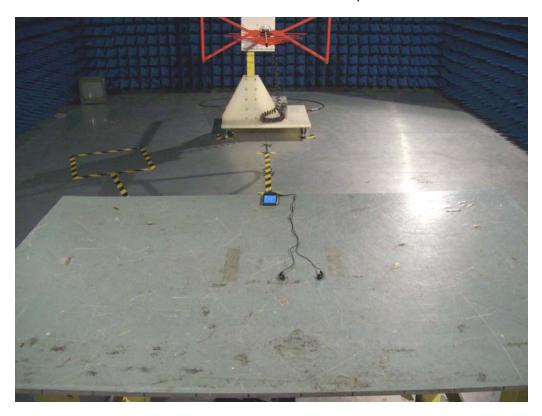
224.00

321.00

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors.

# APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

## Radiated Emission Test Setup



Conducted Emission Test Setup



## APPENDIX 2 PHOTOGRAPHS OF EUT

## FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



## LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



## PHOTO OF THE ADAPTER



PHOTO OF THE USB CABLE



## PHOTO OF THE AUDIO CABLE



PHOTO OF THE VIDEO CABLE



## PHOTO OF THE EARPHONE CABLE

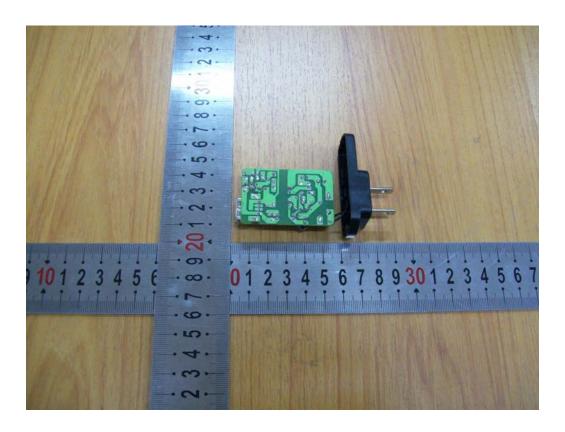


PHOTO OF THE ENTIRE EUT

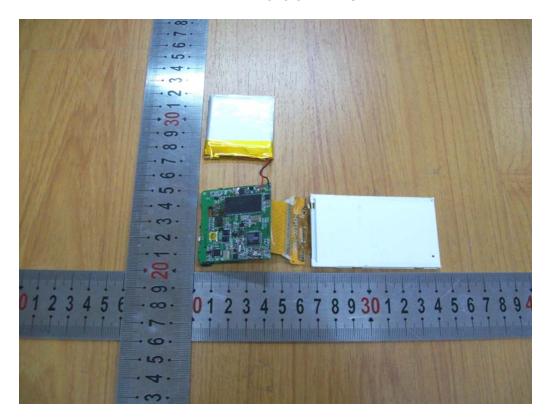


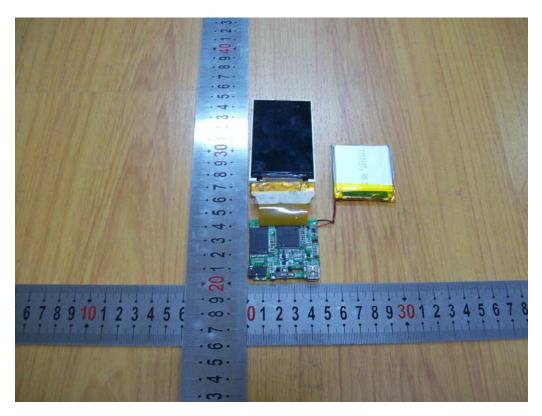
## INTERNAL PHOTO OF THE ADAPTER





#### INTERNAL PHOTO OF THE EUT





-----END OF REPORT-----