EMC TEST REPORT

For

Lamp Speaker

Model Number: DUO
FCC ID: UUWDUO

Report Number **:** WT068002500

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TEST REPORT DECLARATION

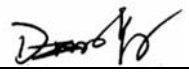
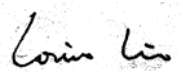
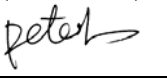
Applicant	:	Original Acoustics Inc.
Address	:	LiHeng Industry District, QingXi Town, Dongguan, Guangdong, China
Manufacturer	:	Original Acoustics Inc.
Address	:	LiHeng Industry District, QingXi Town, Dongguan, Guangdong, China
EUT Description	:	Lamp Speaker
Model Number		DUO
FCC ID Number		UUWDUO

Test Standards:

FCC Part 15 15.249 :2005

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Tested by:	 (Dewelly Yang)	Date:	2006.12.14
Checked by:	 (Louis Lin)	Date:	2006.12.14
Approved by:	 (Peter Lin)	Date:	2006.12.14

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
Conducted Disturbance	15.207	Pass
Radiated disturbance	15.249	Pass
Band Edges	15.249	Pass
Antenna Requirement	15.203	Pass

2. GENERAL INFORMATION

2.1. Report information

2.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

2.1.2.The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

2.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:
China National Accreditation Committee for Laboratories (**CNAL**) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (**FCC**), and the registration number are **97379**(open area test site) and **274801**(semi anechoic chamber).
The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (**VCCI**), and the registration number are **R-1974**(open area test site) , **R-1966**(semi anechoic chamber),**C-2117**(mains ports conducted interference measurement) and **T-180**(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (**IC**), and the registration number is **IC4174**.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is **E2024086Z02**.
Measurement Uncertainty

2.3. Measurement Uncertainty

Conducted Disturbance : 9kHz~30MHz 3.5dB

Radiated Disturbance: 30MHz~1000MHz 4.5dB
1GHz~18GHz 4.6dB

3. PRODUCT DESCRIPTION

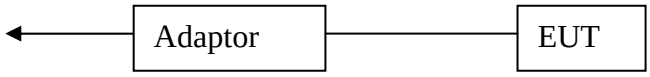
3.1. EUT Description

Description	:	Lamp Speaker
Manufacturer	:	Original Acoustics Inc.
Model Number	:	DUO
Input Power	:	Adapter: M/N: AD1605C Input: 100-240VAC 0.3A 47-63Hz Output: DC5.0V 500mA
Operate Frequency	:	2412-2467MHz
Modulation		DSSS
Antenna Designation	:	fixed

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: UUWDUO filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

3.3. Block Diagram of EUT Configuration



3.4. Operating Condition of EUT

Mode 1:ch1（2412MHz）
Mode2: ch3 （2452MHz）
Mode3:ch4 （2467MHz）

The Transmitter was operated in the normal operating mode(input music max=0.5V).

3.5. Special Accessories

Not available for this EUT intended for grant.

3.6. Equipment Modifications

Not available for this EUT intended for grant.

3.7. Support Equipment List

Table 2 Support Equipment List

Name	Model No	S/N	Manufacturer	Used "√"
speaker	DPL923VD	----	thomson	√

3.8. Test Conditions

Date of test：Dec.12-13,2006
Date of EUT Receive：Dec.12,2006
Temperature: 22-24 ℃
Relative Humidity: 50-53%

4. TEST EQUIPMENT USED

Table 3 Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB2603	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.26, 2006	1 Year
SB3321	AMN	Rohde & Schwarz	ESH2-Z5	Jan.26, 2006	1 Year
SB2604	AMN	Rohde & Schwarz	ESH3-Z5	Jan.26, 2006	1 Year
SB3612	Audio generator	KENWOOD	AD-203D	Jun.21, 2005	1 Year
SB3436	EMI Test Receiver	Rohde & Schwarz	ESI26	Jan.26, 2006	1 Year
SB3440	Bilog Antenna	Chase	CBL6112B	Jan.26, 2006	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Jan.26, 2006	1 Year
SB3435/01	Amplifier(1-18 GHz)	Rohde & Schwarz	---	Jan.26, 2006	1 Year
SB3435/02	Amplifier(18-40 GHz)	Rohde & Schwarz	---	May.06, 2006	1 Year
SB3435/03	Horn Antenna	Rohde & Schwarz	AT4560	May.06, 2006	1 Year
SB3612	Audio generator	KENWOOD	AD-203D	Jun.21, 2005	1 Year
SB3450/01	3m Semi-anechoic chamber	Albatross Projects	9X6X6	Jan 26,2006	1 Year

5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1.Test Standard

FCC Part 15 15.207 :2005

5.1.2.Test Limit

Table 4 Conducted Disturbance Test Limit (Class B)

Frequency	Maximum RF Line Voltage (dBμV)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

③ Decreasing linearly with logarithm of the frequency

③ The lower limit shall apply at the transition frequency.

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.4-2003.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.
The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves .
Working mode: Ch1 (the worst case)

Table 5 Conducted Disturbance Test Data

Model：DUO

Mode: 1

Line							
Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
		Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)
0.333	10.1	40.0	50.1	59.3	22.2	32.3	49.3
0.415	10.2	37.3	47.5	57.5	18.3	28.5	47.5
0.571	10.1	38.8	48.9	56	19.8	29.9	46
0.618	10.1	38.3	48.4	56	18.7	28.8	46
0.810	10.1	36.9	47.0	56	16.9	27.0	46
1.120	10.2	36.3	46.5	56	16.9	27.1	46

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
3. The other emission levels were very low against the limit.

Table 6 Conducted Disturbance Test Data

Model：Bluecheck

Mode: 4

Neutral							
Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
		Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)
0.162	10.2	40.8	51.0	65.3	10.7	20.9	55.3
0.373	10.1	41.5	51.6	58.4	29.4	39.5	48.4
0.562	10.1	40.9	51.0	56	28.2	38.3	46
0.700	10.1	39.5	49.6	56	24.4	34.5	46
0.936	10.1	36.4	46.5	56	21.1	31.2	46
1.350	10.2	35.8	46.0	56	19.9	30.1	46

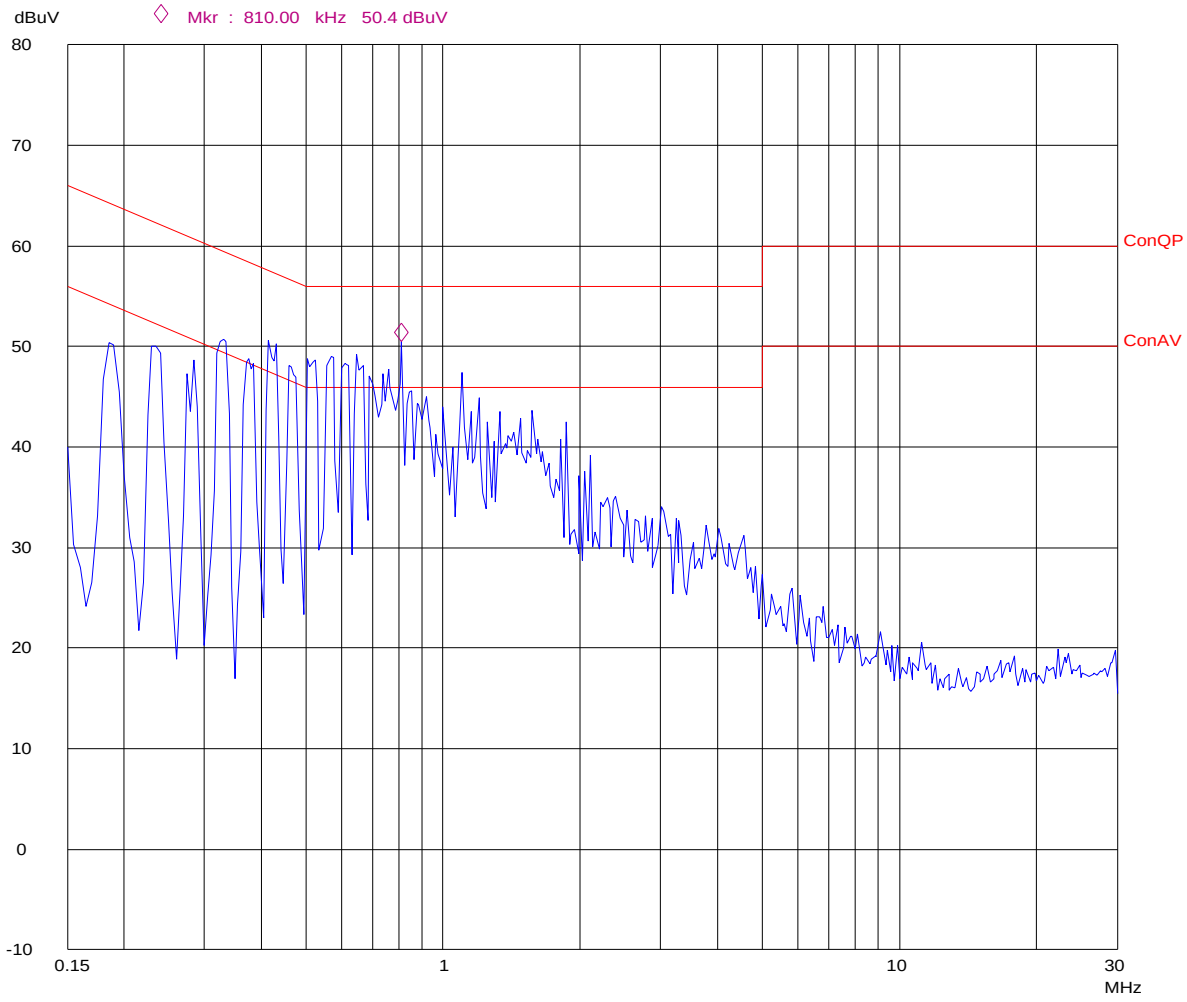
REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)

3. The other emission levels were very low against the limit.

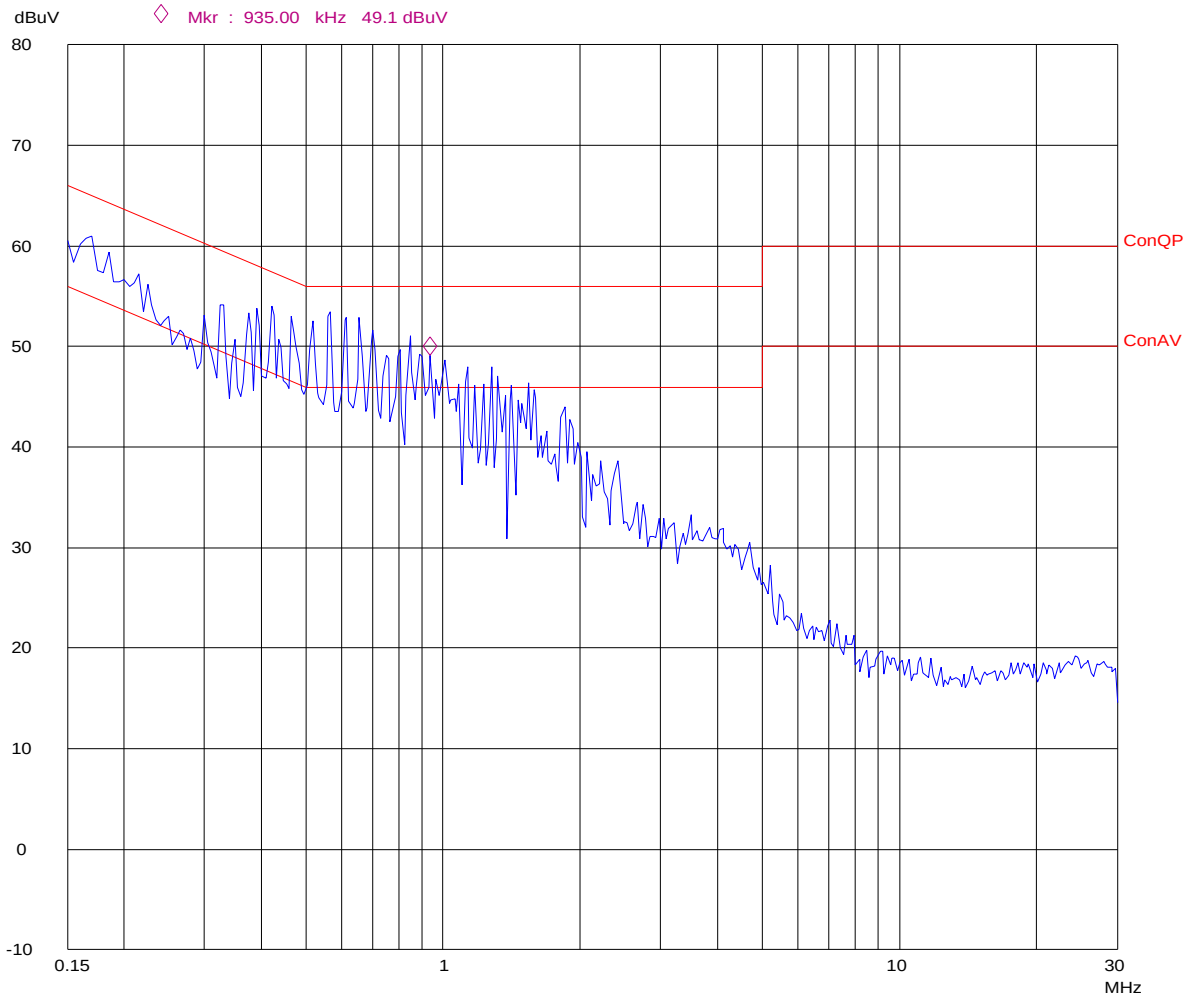
Conducted Disturbance

EUT:	M/N:DUO
Op Cond:	Tx ch1
Test Spec:	L
Comment:	AC 120V/60Hz



Conducted Disturbance

EUT:	M/N:DUO
Op Cond:	Tx ch1
Test Spec:	N
Comment:	AC 120V/60Hz



6. RADIATED DISTURBANCE TEST

6.1. Test Standard and Limit

6.1.1.Test Standard

FCC Part 15 15.249:2005

6.1.2.Test Limit

Table 7 Radiated Disturbance Test Limit

FREQUENCY MHz	FIELD STRENGTHS LIMITS （μV/m)	FIELD STRENGTHS LIMITS dB (μV/m)
Fundamental	50000	94.0
Harmonics	500	54.0
30 ~ 88	100	40.0
88 ~ 216	150	43.5
216 ~ 960	200	46.0
960 ~	500	54.0

* The lower limit shall apply at the transition frequency.
* The test distance is 3m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and13 of ANSI C63.4-2003.
The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings above 1 GHz are AV and Peak values with a resolution bandwidth of 1 MHz .
Measurements were made at 3 meters

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

Emissions don't show below are too low against the limits, the test curves are shown in the APPENDIX Ⅰ

Table 8 **General Radiated Emission Data**

Model number: DUO
Test Mode: ch1

Frequency (MHz)	Polarization	Reading Value (dBμV)	Cable loss (dB)	Antenna Factor (dB/m)	Emission Level dB(μV/m)	Limits dB(μV/m)	Note
211.192	V	28.2	2.6	10.04	40.8	43.5	----
422.406	V	22.8	3.3	17.01	43.1	46.0	---
442.366	V	22.2	3.4	16.86	42.5	46.0	---
464.644	V	23.1	3.6	17.4	44.1	46.0	
442.335	H	20.8	3.4	16.86	41.1	46.0	
464.614	H	22.7	3.6	17.4	43.7	46.0	----
491.514	H	22.2	3.7	17.63	43.5	46.0	----
506.853	H	22.7	3.7	17.63	44.0	46.0	----

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + antenna factor(dB/m)+cable loss(dB)
2. The other emission levels were very low against the limit.

Table 9 **General Radiated Emission Data**

Model number: DUO
Test Mode: ch3

Frequency (MHz)	Polarization	Reading Value (dBμV)	Correction Factor (dB)	Antenna Factor (dB/m)	Emission Level dB(μV/m)	Limits dB(μV/m)	Note
464.614	V	23.5	3.6	17.4	44.5	43.5	----
549.125	V	21.3	3.9	18.71	43.9	46.0	---
464.624	H	24.8	3.6	17.4	45.8	46.0	----
844.757	H	19.5	5	20.45	44.9	46.0	----

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + antenna factor(dB/m)+cable loss(dB)
2. The other emission levels were very low against the limit.

Table 10 **General Radiated Emission Data**

Model number: DUO
Test Mode: ch1

Frequency (MHz)	Polarization	Reading Value (dBμV)	Correction Factor (dB)	Antenna Factor (dB/m)	Emission Level dB(μV/m)	Limits dB(μV/m)	Note
393.205	V	23.4	3.2	16.49	43.1	46.0	----
422.406	V	22.7	3.3	17.01	43.0	46.0	---
442.355	V	22.2	3.4	16.86	42.5	46.0	---
380.142	H	21.7	3.2	16.14	41.0	46.0	
393.195	H	20.9	3.2	16.49	40.6	46.0	
422.376	H	20.8	3.3	17.01	41.1	46.0	----
442.376	H	20.9	3.4	16.86	41.2	46.0	----
846.782	H	15.3	5	20.45	40.7	46.0	----

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + antenna factor(dB/m)+cable loss(dB)
2. The other emission levels were very low against the limit.

Table 11 **Fundamental and harmonics Radiated Emission Data**

Ambient temperature: 24° C
Relative humidity: 53 %
Test mode: 1 (ch4 2412MHz)

Frequency GHz	Emission (dBuV/m)	Read Value (dBuV)	Correction Factor (dB/m)	Polarization	Limits (dBuV/m)	Note
2413.450	79.0	82.7	-3.7	H	94.0	Fundamental (AV)
2413.450	86.6	90.3	-3.7	H	114.0	Fundamental (Peak)
2413.461	84.0	87.7	-3.7	V	94.0	Fundamental (AV)
2413.461	92.0	95.7	-3.7	V	114.0	Fundamental (Peak)
4827.054	53.1	50.8	2.3	V	54.0	Harmonic (AV)
4827.054	49.1	46.8	2.3	V	74.0	Harmonic (Peak)
7243.637	42.1	34.0	8.1	V	54.0	Harmonic (AV)
7243.637	48.4	40.3	8.1	V	74.0	Harmonic (Peak)
9655.060	48.1	38.8	9.3	V	54.0	Harmonic (AV)
9655.060	44.6	35.3	9.3	V	74.0	Harmonic (Peak)
4824.188	45.8	43.5	2.3	H	54.0	Harmonic (AV)
4824.188	43.6	41.3	2.3	H	74.0	Harmonic (Peak)

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)+Amplifier Factor(dB)
3. The other emission levels were very low against the limit.

Table 12 **Fundamental and harmonics Radiated Emission Data**

Ambient temperature: 24° C
Relative humidity: 53 %
Test mode: 2 (ch3 2452MHz)

Frequency GHz	Emission (dBuV/m)	Read Value (dBuV)	Correction Factor (dB/m)	Polarization	Limits (dBuV/m)	Note
2451.303	82.0	85.7	-3.7	H	94.0	Fundamental (AV)
2451.303	83.1	86.8	-3.7	H	114.0	Fundamental (Peak)
2451.400	88.0	91.7	-3.7	V	94.0	Fundamental (AV)
2451.400	92.1	95.8	-3.7	V	114.0	Fundamental (Peak)
4904.208	49.1	46.8	2.3	V	54.0	Harmonic (AV)
4904.208	57.5	55.2	2.3	V	74.0	Harmonic (Peak)
7356.763	50.0	41.9	8.1	V	54.0	Harmonic (AV)
7356.763	58.1	50.0	8.1	V	74.0	Harmonic (Peak)
9808.356	48.3	39.0	9.3	V	54.0	Harmonic (AV)
9808.356	56.1	46.8	9.3	V	74.0	Harmonic (Peak)
4904.168	43.7	41.4	2.3	H	54.0	Harmonic (AV)
4904.168	51.0	48.7	2.3	H	74.0	Harmonic (Peak)
7356.813	44.5	36.4	8.1	H	54.0	Harmonic (AV)
7356.813	38.6	30.5	8.1	H	74.0	Harmonic (Peak)

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)+Amplifier Factor(dB)
3. The other emission levels were very low against the limit.

Table 13 **Fundamental and harmonics Radiated Emission Data**

Ambient temperature: 24° C
Relative humidity: 53 %
Test mode: 4(ch4 2467MHz)

Frequency GHz	Emission AV (dBuV/m)	Read Value (dBuV)	Correction Factor (dB/m)	Polarization	Limits (dBuV/m)	Note
2467.560	83.1	86.8	-3.7	H	94.0	Fundamental (AV)
2467.560	85.9	89.6	-3.7	H	114.0	Fundamental (Peak)
2467.310	87.5	91.2	-3.7	V	94.0	Fundamental (AV)
2467.310	90.8	94.5	-3.7	V	114.0	Fundamental (Peak)
4934.550	50.1	47.8	2.3	V	54.0	Harmonic (AV)
4934.550	53.9	51.6	2.3	V	74.0	Harmonic (Peak)
7401.990	49.1	41.0	8.1	V	54.0	Harmonic (AV)
7403.990	52.0	43.9	8.1	V	74.0	Harmonic (Peak)
9869.240	48.8	39.5	9.3	V	54.0	Harmonic (AV)
9869.240	51.1	41.8	9.3	V	74.0	Harmonic (Peak)
4935.420	45.5	43.2	2.3	H	54.0	Harmonic (AV)
4935.420	47.5	45.2	2.3	H	74.0	Harmonic (Peak)
7402.880	44.6	36.5	8.1	H	54.0	Harmonic (AV)
7402.880	47.0	38.9	8.1	H	74.0	Harmonic (Peak)

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)+Amplifier Factor(dB)
3. The other emission levels were very low against the limit.

7. BAND EDGE

7.1. Test Standard and Limit

7.1.1.Test Standard

FCC Part 15 15.249 :2005

7.2. Band Edge FCC 15.249(d) Limit

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation

7.3. Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instruments. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Measure the highest amplitude appearing on spectral display and set it as reference level. Plot the graph with marking the highest point and edge frequency.
4. Repeat above procedures until all measured frequencies were complete.

7.4. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

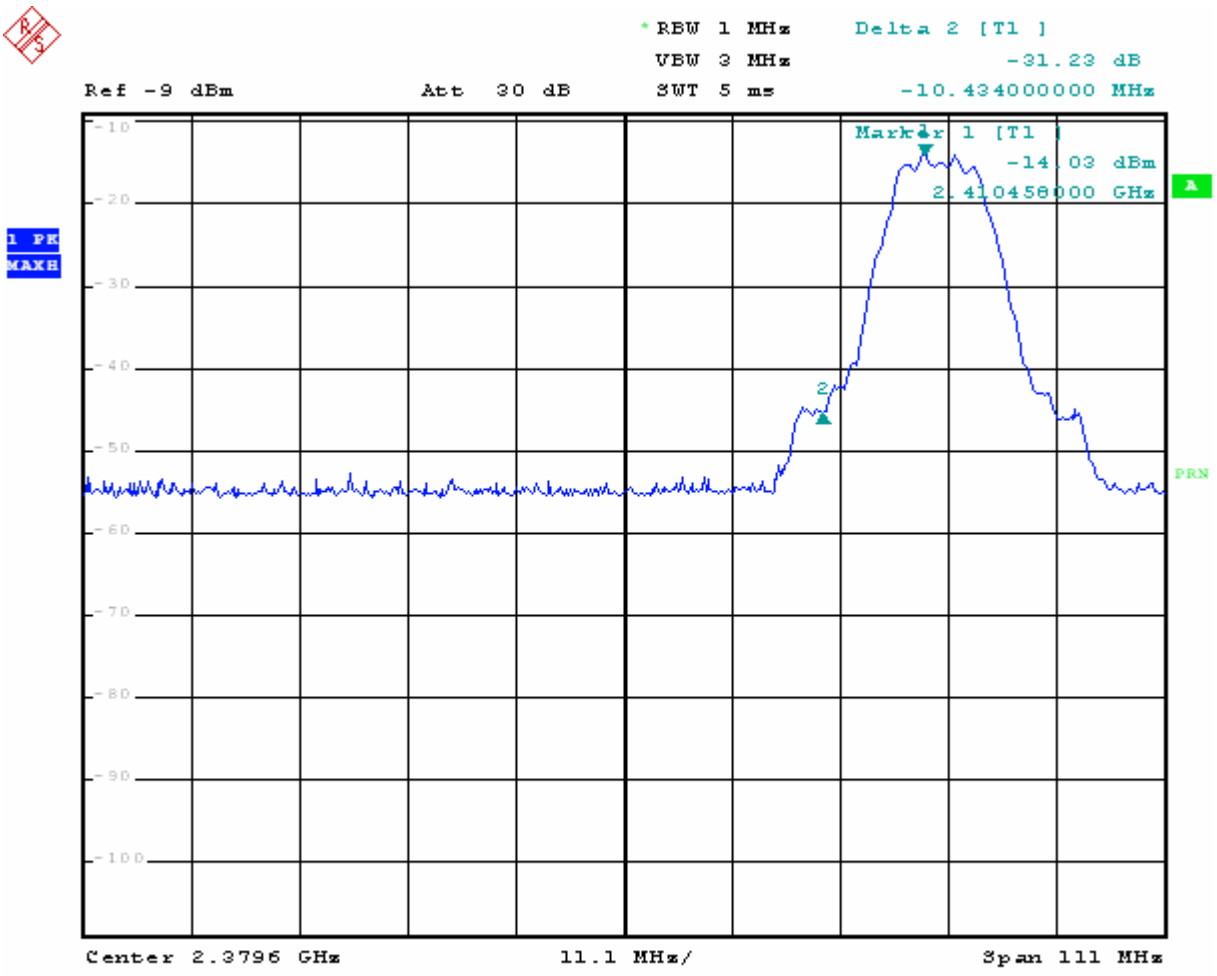
7.5. Test Data

All the emission outside2400 to 2483.5MHz is lower than 54 dB (μ V/m).

NOTE 1: The band edge emission plot of low frequency shows 31.2dBc. The emission of carrier strength list in the test result of low frequency is 84.0dBuV/m (AV), so the maximum field strength in restrict band is 84.0-31.2=52.8dBuV/m which is under 54dBuV/m limit.

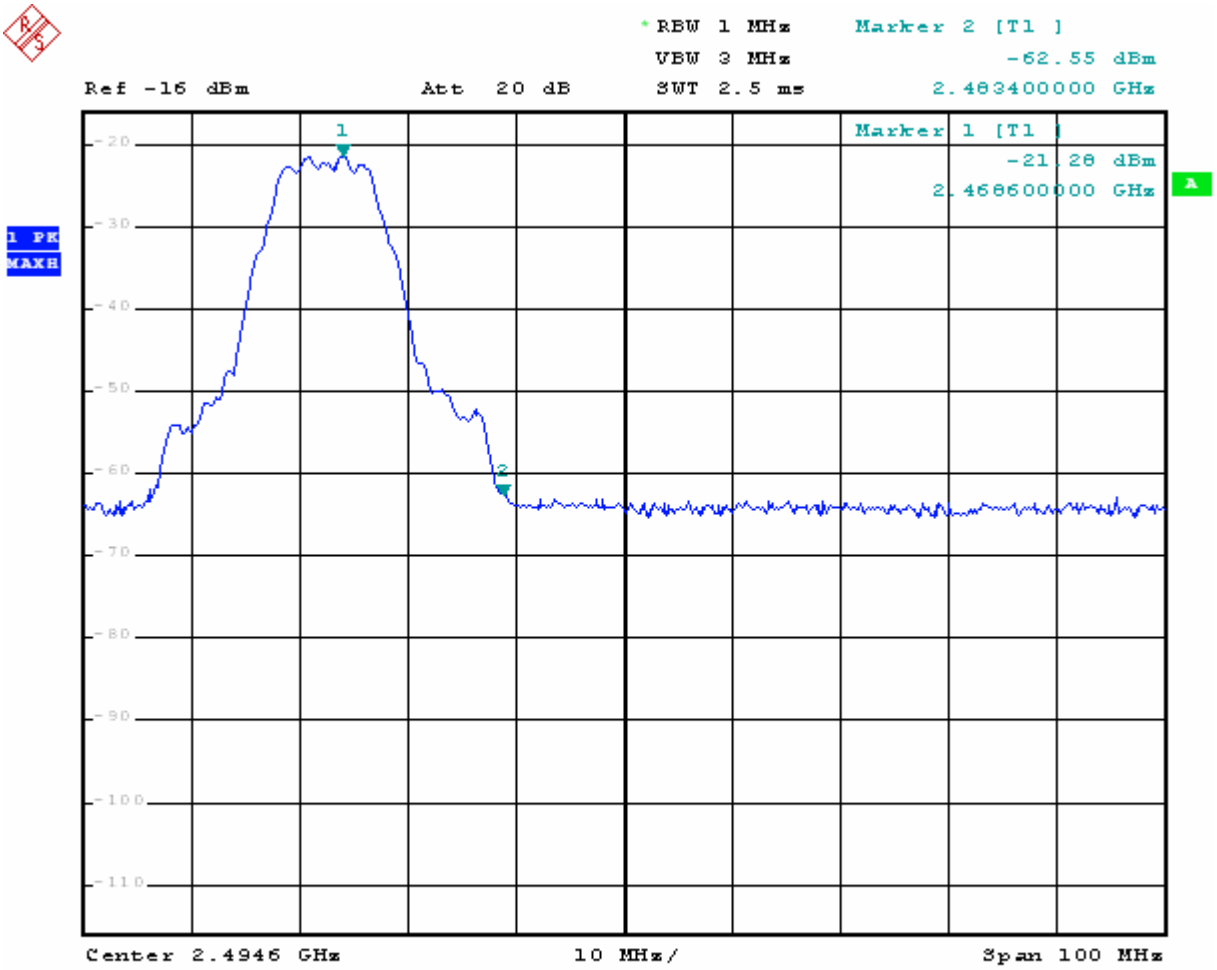
NOTE 2: The band edge emission plot of high frequency shows 41.3dBc. The emission of carrier strength list in the test result of high frequency is 87.5dBuV/m (QP), so the maximum field strength in restrict band is 87.5-41.3=46.2dBuV/m which is under 54dBuV/m limit.

Ch1 2412MHz



:

Ch4 2467MHz



8. ANTENNA REQUIREMENT

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
The EUT has a built in antenna which is a short wire solder on the PCB, this is permanently attached antenna and meets the requirements of this section.

APPENDIX I TEST PHOTO

Photo 1 Conducted Emission Test

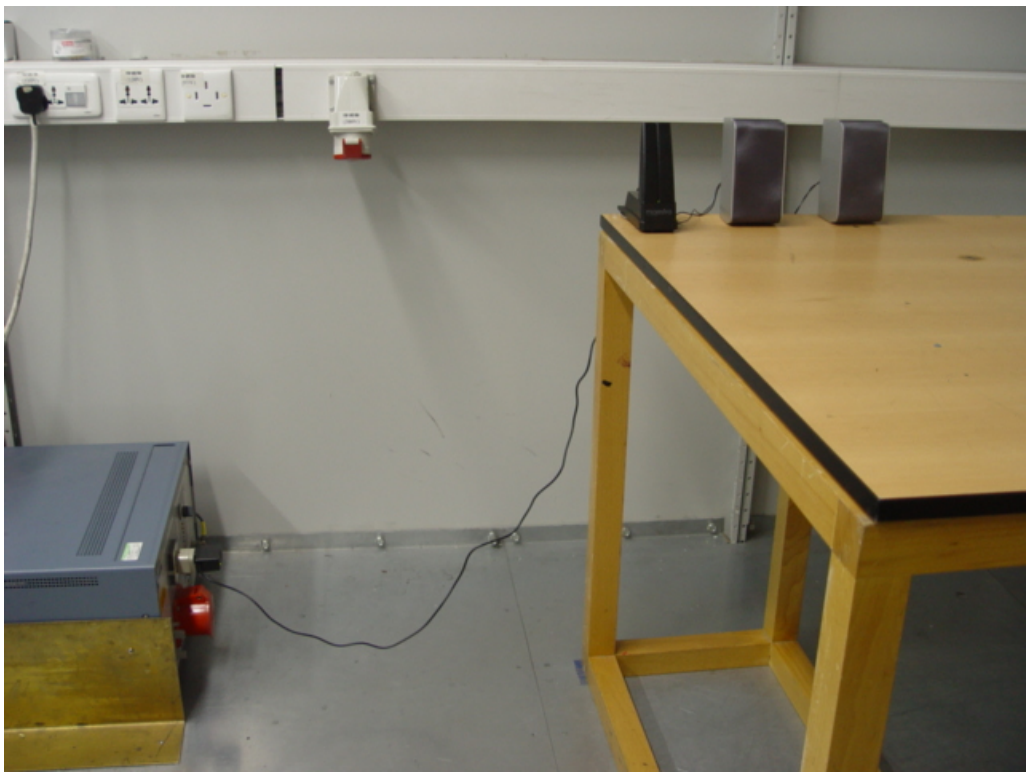


Photo 2 Conducted Emission Test

Photo 3 Radiated Emission Test

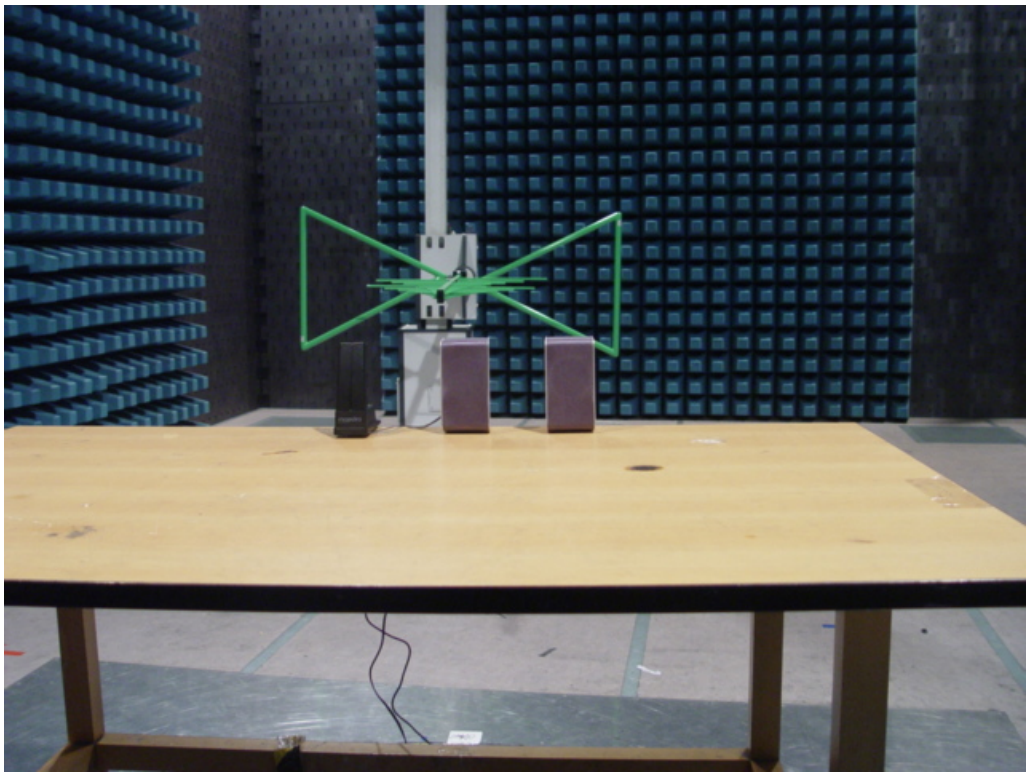


Photo 4 Radiated Emission Test

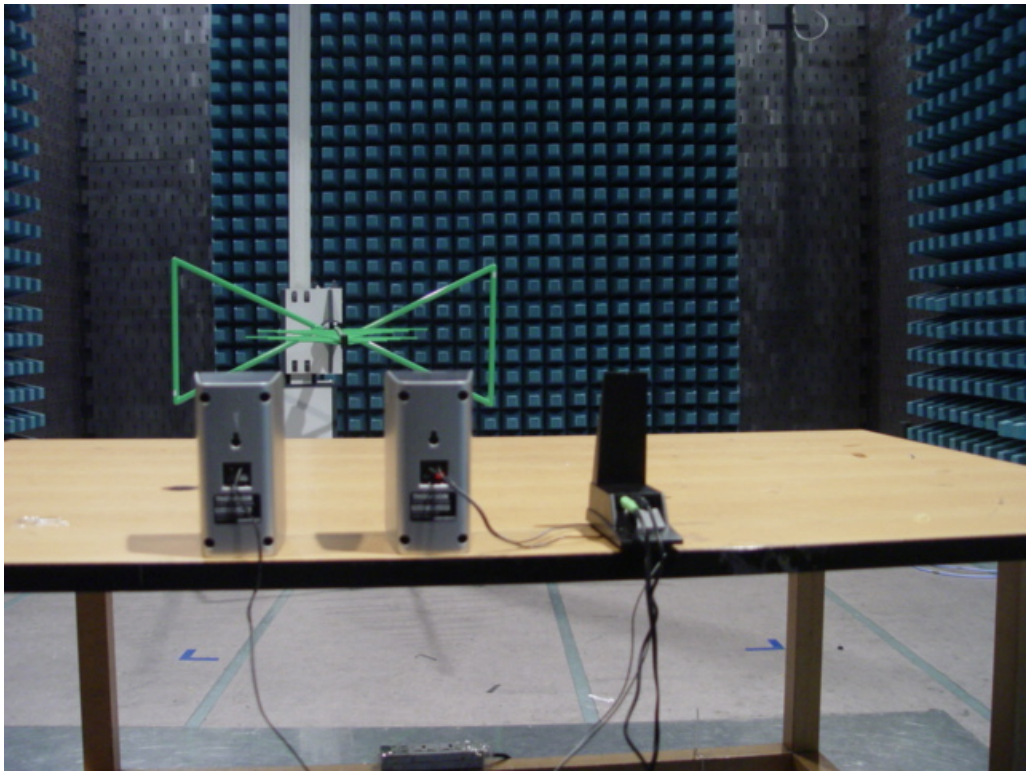


Photo 5 Radiated Emission Test

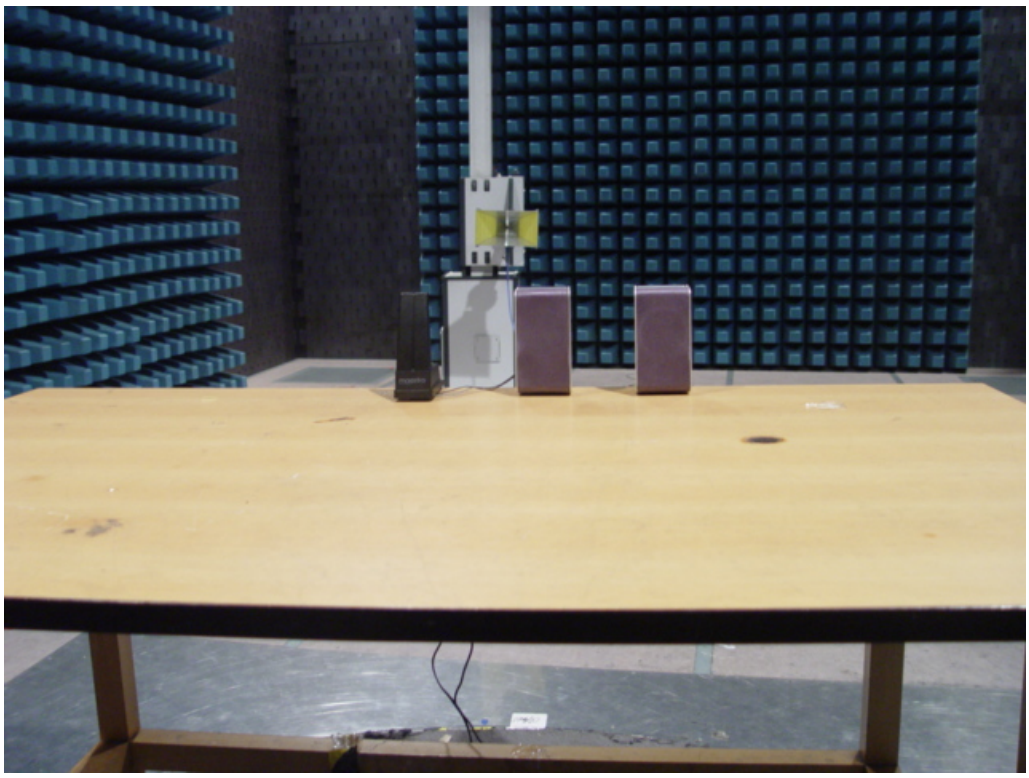
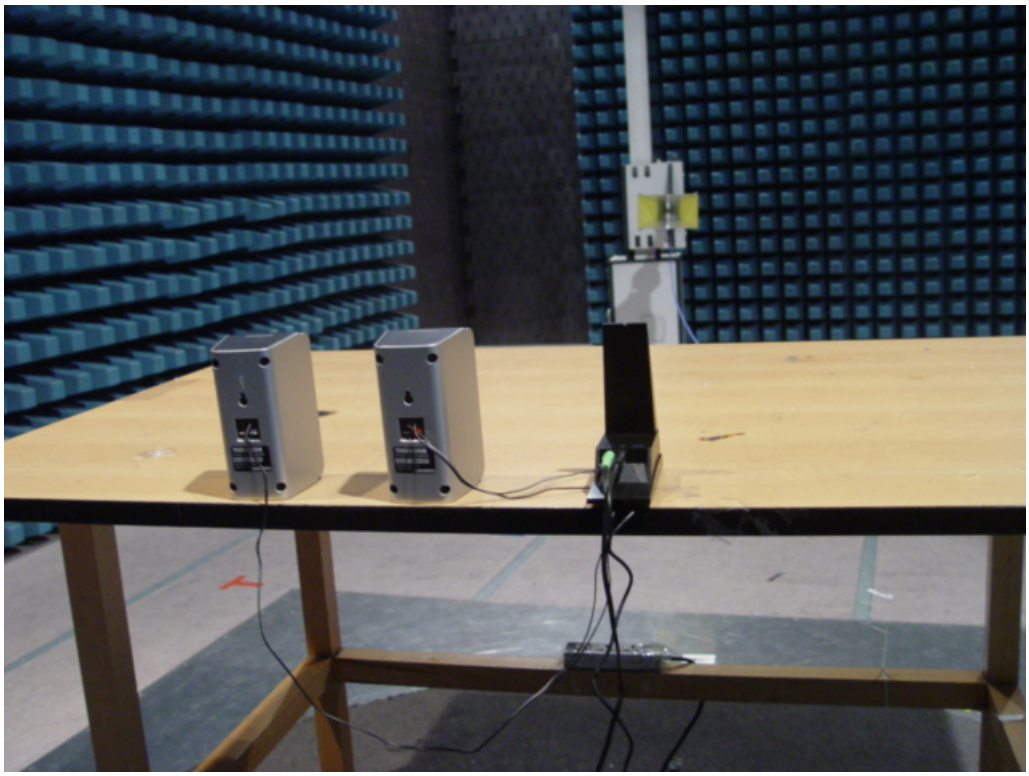


Photo 6 Radiated Emission Test



APPENDIX II EUT PHOTO

Photo 1 Appearance of EUT

Photo 2 Appearance of EUT

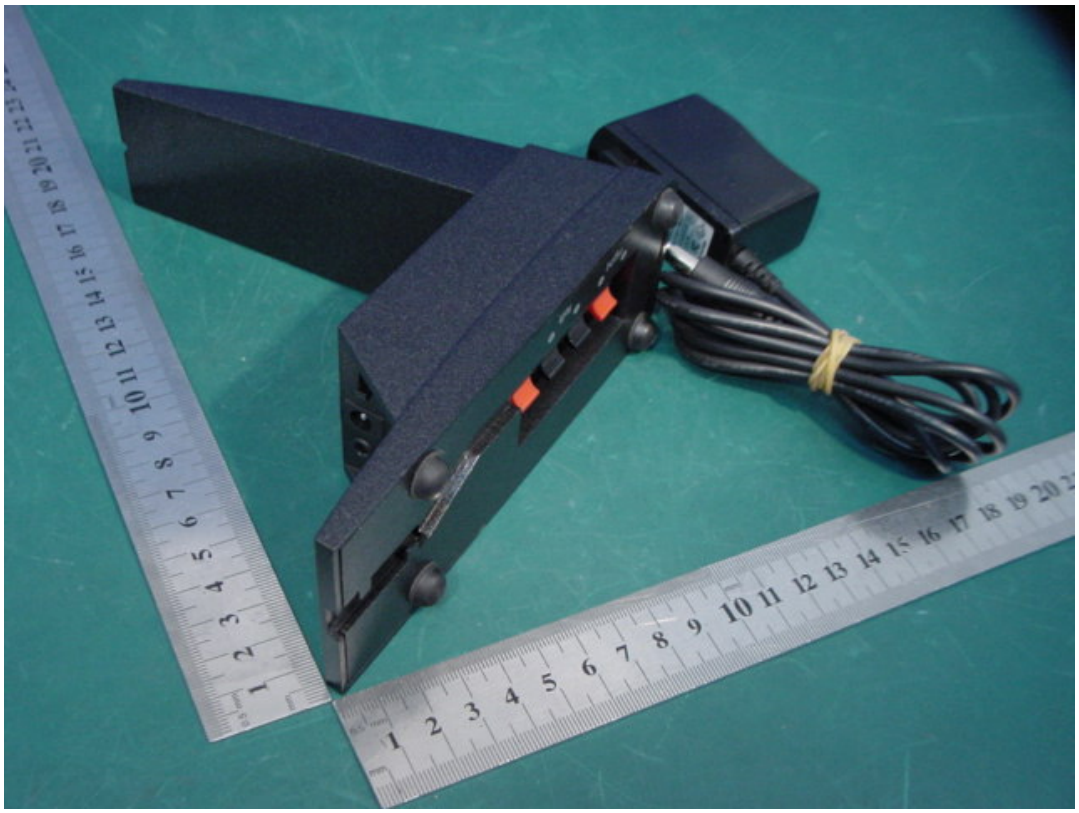


Photo 3 Inside of EUT

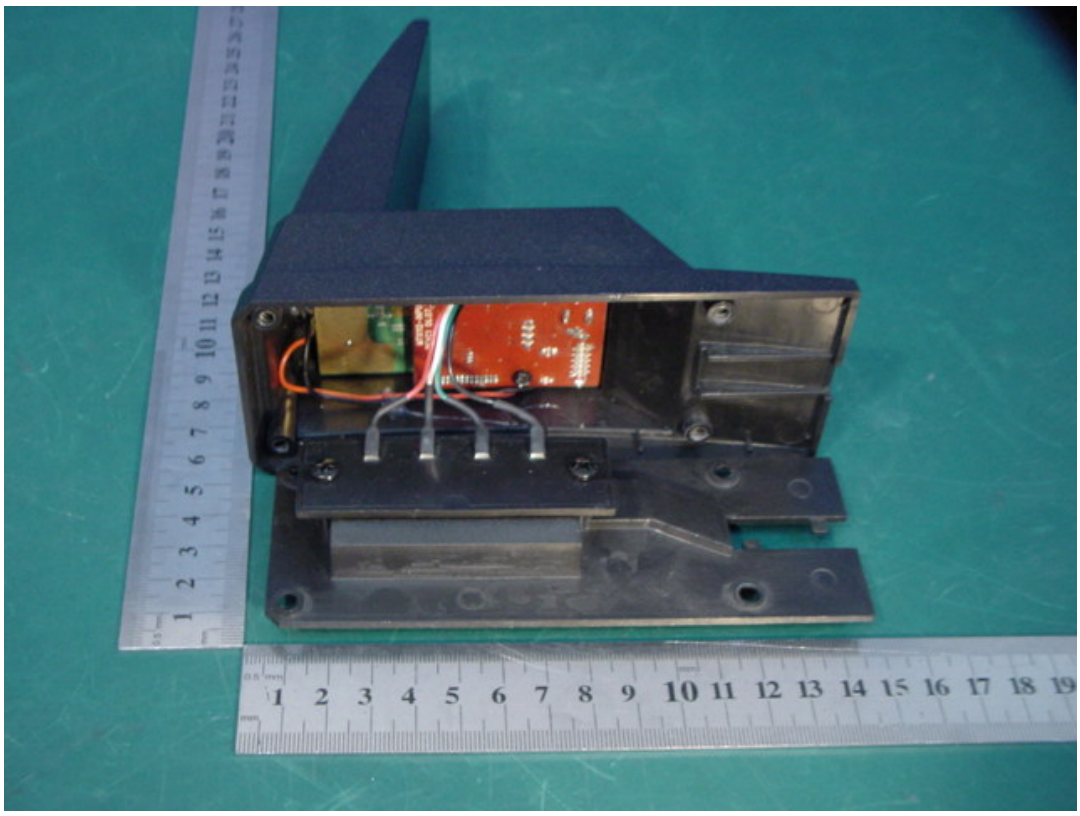


Photo 4 Inside of EUT

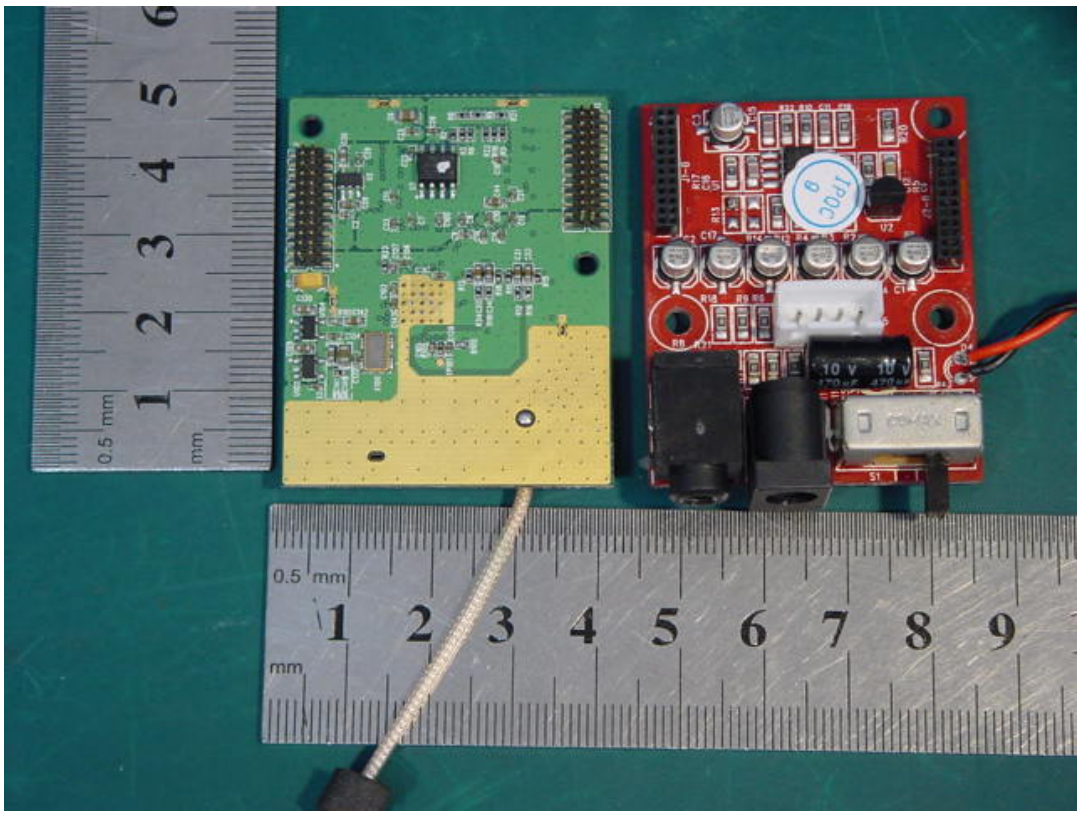


Photo 5 Inside of EUT

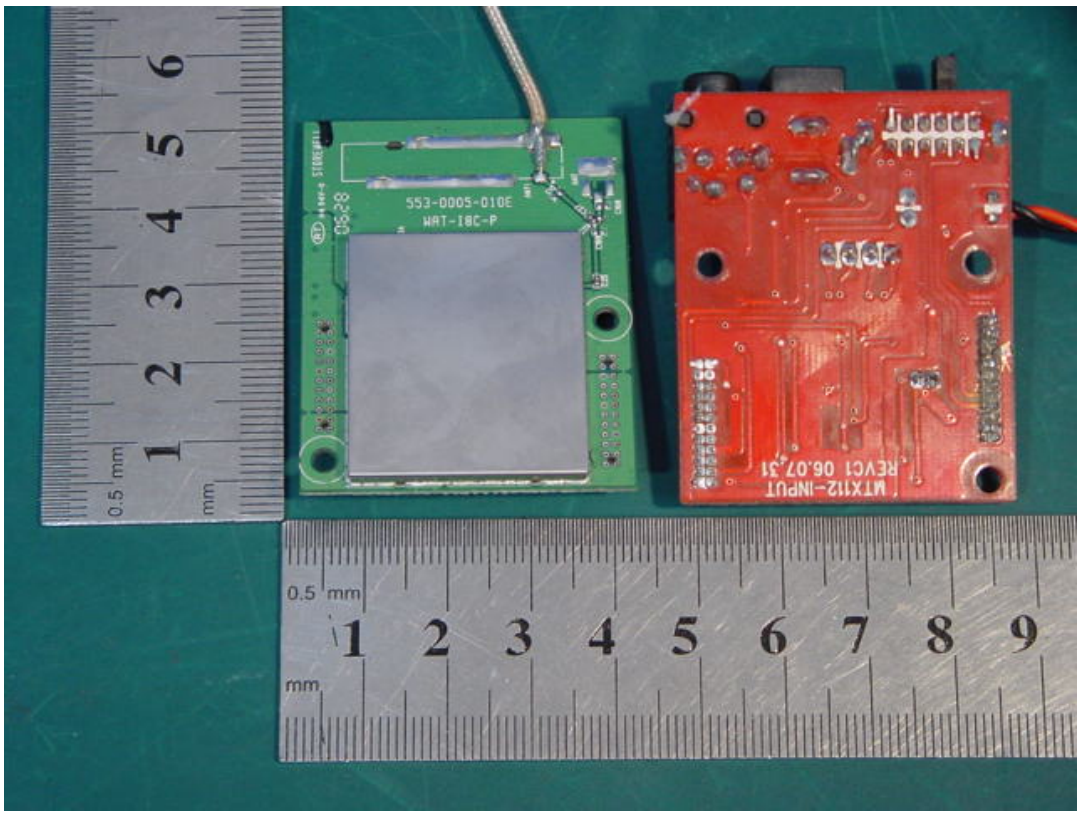


Photo 6 Inside of EUT