FCC TEST REPORT

REPORT NO.: FC110128N04

MODEL NO.: WTX002A,ISA30B(See Item 3.1)

RECEIVED: Jan.28, 2011

TESTED: Feb.20~Feb.28, 2011

ISSUED: Mar.6, 2011

APPLICANT: NGAI LIK ELECTRONICS ENTERPRISES LIMITED

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ISSUED BY: NS Technology Co., Ltd.

LAB ADDRESS: Chenwu Industrial Zone, Houjie Town, Dongguan, Guangdong, China

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ACCREDITED
Test Lab
Cert 2951.01

PRODUCT: Doungle

MODEL: WTX002A,ISA30B (See Item 3.1)

BRAND: iLIVE

APPLICANT: NGAI LIK ELECTRONICS ENTERPRISES LIMITED

TESTED: Feb.20~Feb.28, 2011

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.4-2003
47 CFR FCC Part 2 Subpart J, section 2.1091

The above equipment has been tested by **NS Technology Co., Ltd.**, and found compliance with the requirements of the above standards.

The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

REVIEWED BY : Henry Wang **DATE:** Mar.6, 2011

Henry Wang / Supervisor

APPROVED BY : **DATE:** Mar.6, 2011

Chris Du / Manager

Maximum Permissible Exposure

1 Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density(S) (mW/cm^2)	Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density(S) (mW/cm2)	Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

2 MPE Calculation Method

$E (V/m) = (30*P*G)^{0.5}/d$ Power Density: $Pd (W/m^2) = E^2/377$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$Pd = (30*P*G) / (377*d^2)$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

3 Calculated Result and Limit

Mode	CH	Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	MPE estimation result (mW/cm²) at 20cm	Limit of MPE Estimation (mW/cm²)	Test result
TX Mode	CH1:2406MHz	15.36	34.36	0.5	0.0077	1	Compiles
	CH16:2436MHz	14.11	25.76	0.5	0.0058	1	Compiles
	CH34:2472MHz	13.27	21.23	0.5	0.0047	1	Compiles