FCC TEST REPORT

for

SHENZHEN EGREAT TECHNOLOGY CO.,LTD.

HD Network Set-Top Box

Model Number:

X3,X1,X2,X5,X6,X7,X8,X9,X10,X20,X30,X60,X70

FCC ID: 2AAWZX3

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Date of Test : Aug. 18~25, 2013

Date of Report : Aug. 26, 2013

FCC ID: 2AAWZX3

Keyway Testing Technology Co., Ltd.

ShenZhen Egreat Technology Co.,Ltd. Applicant: 4/F, 1Building, ShaSan Chuang Ye Industrial Park, Sha Jing, Address: Bao An, ShenZhen, China ShenZhen Egreat Technology Co.,Ltd. Manufacturer: 4/F, 1Building, ShaSan Chuang Ye Industrial Park, Sha Jing, Address: Bao An, ShenZhen ,China E.U.T: HD Network Set-Top Box **Model Number:** X3,X1,X2,X5,X6,X7,X8,X9,X10,X20,X30,X60,X70 **Trade Name:** Serial No.: **Date of Receipt:** Aug. 16, 2013 Date of Test: Aug. 18~25, 2013 **Test Specification:** FCC Part 15, Subpart C: Oct. 1, 2012 ANSI C63.4:2009 The equipment under test was found to be compliance with the **Test Result:** requirements of the standards applied. Issue Date: Aug. 26, 2013 Tested by: Reviewed by: Approved by: Andy Gao / Engineer Jade Yang/ Supervisor Chris Du / Manager Other Aspects: None. Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under This test report is based on a single evaluation of one sample of above mentioned products. It is not

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1. RF EXPOSURE EVALUATION

1.1. Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3–3.0	614	1.63	*(100)	6				
3.0–30	1842/f	4.89/f	*(900/f ²) 6					
30–300	61.4	0.163	1.0	6				
300–1500			f/300	6				
1500-100,000			5	6				
(B) Limits for General Population/Uncontrolled Exposure								
0.3–1.34	614	1.63	*(100)	30				
1.34–30	824/f	2.19/f	*(180/f ²)	30				
30–300	27.5	0.073	0.2	30				
300–1500			f/1500	30				
1500-100,000			1.0	30				

f = frequency in MHz

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, <math>Pi = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

1.3. Test Result of RF Exposure Evaluation

	Channel	Output power	Power Density at	Limit	Result
802.11b	Frequency (MHz)	to antenna	R=20cm	(mW/cm²)	
		(mW)	(mW/cm ²)		
	2412	20.512	0.0051	1.0	Pass
	2437	20.654	0.0052	1.0	Pass
	2462	20.559	0.0052	1.0	Pass
802.11g	2412	10.186	0.0026	1.0	Pass
	2437	10.257	0.0026	1.0	Pass
	2462	10.399	0.0026	1.0	Pass
802.11n (HT20)	2412	10.209	0.0026	1.0	Pass
	2437	10.375	0.0026	1.0	Pass
	2462	10.116	0.0025	1.0	Pass
802.11n (HT40)	2422	9.268	0.0023	1.0	Pass
	2437	9.705	0.0024	1.0	Pass
	2452	9.419	0.0024	1.0	Pass