



RF Exposure Evaluation Report

Product: 3D Bluetooth Glasses

FCC ID: A4GESG808

Brand Name: N/A

Applicant: ESTAR DISPLAY TECHCO.,LTD

Address: 16F Hall A, GDC Building, 9 Gaoxin Central Avenue 3rd, Nanshan District, Shenzhen, China

Issued by: CCIC-SET

Lab Location: Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055, P. R. China

Tel: 86 755 26627338 **Fax:** 86 755 26627238

This test report consists of **9** pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CCIC-SET. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to CCIC-SET within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.



Test Report

Report No.: SET2013-03398
Product.....: 3D Bluetooth Glasses
Model No.: ESG808, GX33AB
Applicant.....: ESTAR DISPLAY TECHCO.,LTD
Applicant Address.....: 16F Hall A, GDC Building, 9 Gaoxin Central Avenue
3rd, Nanshan District, Shenzhen, China
Manufacturer.....: ESTAR DISPLAY TECHCO.,LTD
Manufacturer Address.....: 16F Hall A, GDC Building, 9 Gaoxin Central Avenue
3rd, Nanshan District, Shenzhen, China

Test Result: Pass

Tested by

Lu Lei July 1, 2013
Lu Lei, Test Engineer

Reviewed by.....:

Shuangwen Zhang July 1, 2013
Shuangwen Zhang, Senior Engineer

Approved by.....:

Wu Li'an July 1, 2013
Wu Li'an, Manager



Table of Contents

Test Report	2
1 .General Information	4
1.1 Description of EUT	4
1.2 Test specifications	4
2 RF Exposure Limit Introduction	5
3 Conducted RF Output Power	5
4. RF Exposure Evaluation	5



1 .General Information

1.1 Description of EUT

Product Feature & Specification	
DUT Type	3D Bluetooth Glasses
Model Name	ESG808, GX33AB
FCC ID	A4GESG808
Frequency	Bluetooth:2402MHz – 2480MHz
Antenna Type	PCB
Antenna Gain	1.87dBi
HW Version	N.A
SW Version	N.A
Test of Modulation	GFSK

Remark 1: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.2 Test specifications

ANSI Std C95.1-1992	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3KHz-300GHz.(IEEE Std C95.1-1992)
RSS-102	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands (Issue 4 of March 2010))
KDB 447498 D01V05	General RF Exposure Guidance



2 RF Exposure Limit Introduction

According to 447498 D01 section 4.3.1 General RF Exposure Guidance v05, exclusion threshold values at selected frequencies and distances table as following:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot$$

$$[\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 16 where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

3 Conducted RF Output Power

Channel	0	39	78
Frequency(MHz)	2402	2441	2480
Power(dBm)	-2.57	-2.77	-3.03
Power(mW)	0.553	0.528	0.498

4. RF Exposure Evaluation

$$\text{MPE} = \left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot [\sqrt{f(\text{GHz})}] = [0.553 \text{ mW} / 5 \text{ mm}] \cdot \sqrt{2.402 \text{ GHz}} = 0.171 \leq 3.0$$



Result:PASS

**** END OF REPORT ****