



**Shenzhen GTI Technology Co., Ltd.**

1F,2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District,  
Shenzhen, Guangdong, China.

Tel: +86-755-27559792

Fax: +86-755-86116468

Report No.: GTI20150436F-2

Page 1 of 7

# TEST REPORT

**Product Name** .....: Bluetooth Speaker

**Trademark** .....: ADO

**Model/Type reference** .....: ADO Mate3

**Listed Model(s)** .....: /

**FCC ID**.....: 2AFTY-MATE3

**Test Standards** .....: **FCC Per 47 CFR 2.1093(d)**

**Applicant** .....: Shenzhen ADS Technology Co.,Ltd.

**Address of applicant** .....: Room 5221 of Craft Building, Zhen Hua Road NO55,  
Fu'tian District, ShenZhen, China

**Date of Receipt** .....: Aug. 26, 2015


**Date of Test Date**.....: Aug. 26, 2015 - Aug. 31, 2015

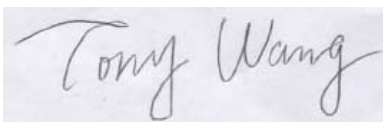
**Data of issue.** .....: Sep. 11, 2015

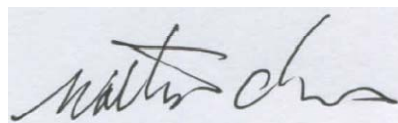
<b>Test result</b>	<b>Pass *</b>
--------------------	---------------

\* In the configuration tested, the EUT complied with the standards specified above

GENERAL DESCRIPTION OF EUT	
Equipment:	Bluetooth Speaker
Model Name:	ADO Mate3
Manufacturer:	Shenzhen Longxin Industry Co.,Ltd
Manufacturer Address:	Longxin Park, Chuangye Rd, The 3th Industry Estate, Fenghuang, Fuyong, Baoan, Shenzhen, China
Power Rating:	DC 3.7V from 1800mAh by rechargeable battery DC 5.0V from USB Cable

Compiled By:   
(Thomas Morgan)

Reviewed By:   
(Tony Wang)

Approved By:   
(Walter Chen)

This test report consists of 7 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 GTI. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of compiler, reviewer and approver. Any objections must be raised to GTI within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.



Table of Contents

Page

<b>1. SUMMARY.....</b>	<b>4</b>
1.1. TEST FACILITY .....	4
1.2. STATEMENT OF THE MEASUREMENT UNCERTAINTY.....	4
<b>2. GENERAL INFORMATION.....</b>	<b>5</b>
2.1. ENVIRONMENTAL CONDITIONS .....	5
2.2. GENERAL DESCRIPTION OF EUT .....	5
<b>3. METHOD OF MEASUREMENT.....</b>	<b>6</b>

## 1. SUMMARY

### 1.1. Test Facility

#### 1.3.1 Address of the test laboratory

**Shenzhen GTI Technology Co., Ltd**

1F, 2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District, Shenzhen, Guangdong, China

#### 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

**IC Registration No.: 9783A**

The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Aug, 2011.

**FCC-Registration No.: 214666**

Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 214666, Sep 19, 2011

### 1.2. Statement of the measurement uncertainty

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

## 2. GENERAL INFORMATION

### 2.1. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

### 2.2. General Description of EUT

Product Name:	Bluetooth Speaker
Model/Type reference:	ADO Mate3
Power supply:	DC 3.7V from 1800mAh by rechargeable battery DC 5.0V from USB Cable
Hardware version:	V1.0
Software version:	F-6188V4.0
<b>Bluetooth 2.1+EDR</b>	
Version:	Supported BT2.1+EDR
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	PCB Antenna
Antenna gain:	0dBi

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### 3. Method of measurement

#### Applicable Standard

According to §1.1307(b)(1), 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 of the Commission's guidelines.

According to §RSS-102, Devices that have a radiating element normally operating at separation distances greater than 20 cm between the user and the device shall undergo an RF exposure evaluation. SAR evaluation may be performed in lieu of an RF exposure evaluation for devices operating below 6 GHz with a separation distance of greater than 20 cm between the user and the device.

According to §1.1310, KDB447498 and §2.1093 RF exposure is required.

OET Bulletin 65 Supplement C [June 2001]: Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields

#### Limit

According to KDB447498 D01 General RF Exposure Guidance v05r01 Appendix A:SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

#### RF Exposure Evaluation

From the peak EUT RF output power and power drift from Tune-up Procedure provide by manufacturer as following states:

## Manufacturing tolerance

### BT

GFSK			
Test Channel	Channel 00	Channel 39	Channel 78
Target (dBm)	0.00	0.00	0.00
Tolerance $\pm$ (dB)	1.00	1.00	1.00
$\pi/4$ DQPSK			
Target (dBm)	0.00	0.00	0.00
Tolerance $\pm$ (dB)	1.00	1.00	1.00
8DPSK			
Target (dBm)	0.00	0.00	0.00
Tolerance $\pm$ (dB)	1.00	1.00	1.00

## Evaluation Results

### For BT GFSK

Test Frequency (MHz)	Output Power (dBm)	Output Power including Power Drift (dBm)	Output Power including Power Drift (mW)	SAR Test Exclusion Threshold (mW)	Verdict
2402	0.660	1.00	1.26	10.00	PASS
2441	0.750	1.00	1.26	10.00	PASS
2480	-0.200	1.00	1.26	10.00	PASS

### For BT $\pi/4$ DQPSK

Test Frequency (MHz)	Output Power (dBm)	Output Power including Power Drift (dBm)	Output Power including Power Drift (mW)	SAR Test Exclusion Threshold (mW)	Verdict
2402	-0.960	1.00	1.26	10.00	PASS
2441	-0.900	1.00	1.26	10.00	PASS
2480	-1.880	1.00	1.26	10.00	PASS

### For BT 8DPSK

Test Frequency (MHz)	Output Power (dBm)	Output Power including Power Drift (dBm)	Output Power including Power Drift (mW)	SAR Test Exclusion Threshold (mW)	Verdict
2402	-0.500	1.00	1.26	10.00	PASS
2441	-0.410	1.00	1.26	10.00	PASS
2480	-1.300	1.00	1.26	10.00	PASS

## Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01 v05r02.

\*\*\*\*\*THE END\*\*\*\*\*