Shenzhen GTI Technology Co., Ltd.

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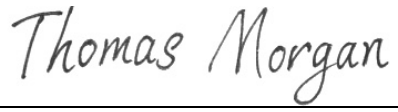
TEST REPORT

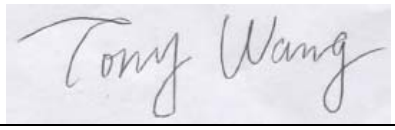
Product Name	:	Bluetooth Speaker
Trademark	:	ADO
Model/Type reference	:	ADO Mate3
Listed Model(s)	:	/
FCC ID	:	2AFTY-MATE3
Test Standards	:	**FCC Per 47 CFR 2.1093(d)**
Applicant	:	Shenzhen ADS Technology Co.,Ltd.
Address of applicant	:	Room 5221 of Craft Building, Zhen Hua Road NO55, Fu'tian District, ShenZhen, China
Date of Receipt	:	Aug. 26, 2015
Date of Test Date	:	Aug. 26, 2015 - Aug. 31, 2015
Data of issue.	:	Sep. 11, 2015

Test result	**Pass ***

* 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)

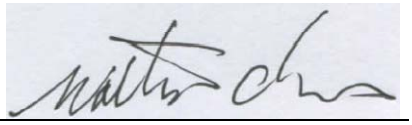
Approved By:  (Walter Chen)

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Table of Contents Page

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
Bluetooth 2.1+EDR	
Version:	Supported BT2.1+EDR
Modulation:	GFSK, π/4DQPSK, 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 ≤ 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 ±(dB)	1.00	1.00	1.00
π/4DQPSK			
Target (dBm)	0.00	0.00	0.00
Tolerance ±(dB)	1.00	1.00	1.00
8DPSK			
Target (dBm)	0.00	0.00	0.00
Tolerance ±(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 π/4DQPSK

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**********