


RF EXPOSURE REPORT

FOR

Applicant	:	LOUD AUDIO, LLC
Address	:	19820 North Creek Parkway #201 Bothell, WA 98011-8227
Equipment under Test	:	Bluetooth® Adapter
Model No.	:	MP-BTA, MP-120 BTA, MP-220 BTA, MP-240 BTA
Trade Mark	:	
FCC ID	:	2AD4XMPBTA
IC	:	12714A-MPBTA
Manufacturer	:	LOUD AUDIO, LLC
Address	:	19820 North Creek Parkway #201 Bothell, WA 98011-8227

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan
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REPORT

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TEST REPORT DECLARE

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above.

The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R19092914-1E7		
Date of Receipt:	Oct. 09, 2019	Date of Test:	Oct. 09, 2019 ~ Nov. 20, 2019

Prepared By:


Talent Zhang/Engineer

Approved By:


Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Nov. 26, 2019	

1. General information

1.1. Description of Equipment

EUT* Name	: Bluetooth® Adapter
Model Number	: MP-BTA, MP-120 BTA, MP-220 BTA, MP-240 BTA
EUT function description	: Please reference user manual of this device
Power supply	: DC 5 V from external AC Adapter DC 3.7V Polymer Li-ion built-in battery
Radio Specification	: Bluetooth V4.2
Operation frequency	: 2402MHz-2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna Type	: Multilayer chip Antenna, maximum PK gain: 2.67 dBi
Sample Type	: Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

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2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

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

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

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-5	-2	-1
Tolerance \pm (dB)	1	1	1
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78

Target (dBm)	-7	-3	-2
Tolerance \pm (dB)	1	1	1
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-7	-3	-2
Tolerance \pm (dB)	1	1	1

Estimation Result

Worse case is as below: [2480MHz, 0 dBm, 1 mW) output power]

$(1/5) \cdot [\sqrt{2.480(\text{GHz})}] = 0.315 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT