

RF Exposure Report

FCC ID: 2AR2STAB6309

Applicant: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Manufacturer: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Product: Soundbar speaker

Brand(s): PHILIPS or 

Test Model(s): TAB6309/37

Series Model(s): See Section 2.1

Test Date: Apr. 14, 2024 ~ Apr. 22, 2024

Issued Date: Mar. 20, 2025

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, HuangJiang Town, Dongguan City, People's Republic of China

Test Firm Registration No.: 915896

Designation No.: CN1255

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01

IEEE C95.1

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

Wendy Lee

Wendy Lee

Reviewed by :

Sye Yang

Sye Yang

Approved by :

Scott He

Scott He

"This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. Our report includes all the tests requested by you and the results thereof based upon the information that you provided to us. The report would be invalid without specific stamp of test institute and the signatures of tester and approver."

Lab: [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#)

Address: [No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, HuangJiang Town, Dongguan City, People's Republic of China](#)

Tel: [0769-85598986](#)

Web.: [www.lyns-tci.com](#)

E-Mail: [service-hs@lyns-tci.com](#)

Release

[Ver. 1.5](#)

Table of contents

Release control record	3
1 General Information	4
1.1 General Description of EUT	4
2 RF exposure limit	5
2.1 MPE calculation formula	5
3 Calculation result of maximum conducted power	6
Appendix – Information on the Testing Laboratories	7

Test Report No.: 25031201-SE-US-01

Release control record

Issue No.	Reason for change	Date issued
24032702-SE-US-01	Original Release	May. 08, 2024
25031201-SE-US-01	Based on the above report 24032702- SE-US-01 to add additional models, after engineering evaluation, no additional testing is required.	Mar. 20, 2025

Test Report No.: 25031201-SE-US-01

1 General Information**1.1 General Description of EUT**

Product	Soundbar speaker
Sample No.	HS2404090003
Test Model(s)	TAB6309/37
Series Model(s)	TAB6309, TAB6309/10, TAB8200, TAB8200/37, TAB8200/10, TAB6309/yy, TAB8200/yy (yy=00-99 or blank, for country code)
Status of EUT	Engineering Prototype
Power Supply Rating	DC 24V 1.5A
Modulation Type	BDR/EDR: GFSK, $\pi/4$ DQPSK, 8DPSK for FHSS BLE: GFSK for DTS
Transfer Rate	BDR/EDR: 1/2/3Mbps BLE: 1/2Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	BDR/EDR: 79 BLE: 40
Maximum Output Power	ATS2835P: BDR/EDR: 3.51dBm (Average) ATS2835P: BLE: 2.74dBm (Average) JL7012C6: BDR/EDR: 2.07dBm (Average) JL7012C6: BLE: 2.98dBm (Average)
Antenna Type	FPC Antenna
Antenna Gain	ATS2835P: 3.27 dBi Gain JL7012C6: 2.55 dBi Gain
Antenna Connector	N/A
Accessory Device	Remote Control×1
Data Cable Supplied	AUX Line:150cm Non-shielded, Detachable AC Line: 140cm Non-shielded, Detachable Adapter: 220cm Non-shielded, Detachable

Note:

1. Please refer to the EUT photo document (Reference No.: 25031201-01-01&02) for detailed product photo.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
3. Hwa-Hsing (Dongguan) Testing Co., Ltd. is not responsible for the accuracy of the information provided by the manufacturer.
4. Model difference: These models are only different from model name and color for trade purpose.

2 RF exposure limit

Limits for maximum permissible exposure (MPE)

Limits for general population / uncontrolled exposure				
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Average time (minutes)
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30
Note: F = Frequency in MHz				

2.1 MPE calculation formula

$$Pd = (P_{out} * G) / (4 * \pi * r^2)$$

*Where:*Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Classification:

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

Test Report No.: 25031201-SE-US-01

3 Calculation result of maximum conducted power

The antennas provided to the EUT, please refer to the following table:

Function	Frequency (MHz)	Antenna Gain (dBi)	Antenna Type	Transmit and Receive Chain	Maximum AVG Power
BDR/EDR (ATS2835P)	2402-2480	3.27	FPC	1TX,1RX	3.51dBm
BLE (JL7012C6)	2402-2480	2.55	FPC	1TX,1RX	2.98dBm

Frequency (MHz)	Max power (mW)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm ²)	Limit (mW/cm ²)
2402-2480 (ATS2835P)	2.2439	3.27	20	0.00948	1.0
2402-2480 (JL7012C6)	1.9861	2.55	20	0.000711	1.0

Conclusion:

Therefore, the worst-case situation is 0.00948 mW/cm², which is less than "1". This confirmed that the device compliance with FCC 1.1310 MPE limit.

Test Report No.: 25031201-SE-US-01

Appendix – Information on the Testing Laboratories

We, [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#), A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values "HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT", commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lab Address: [No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, HuangJiang Town, Dongguan City, People's Republic of China](#)

Contact Tel: [0769-85598986](tel:0769-85598986)

Email: service-hs@lyns-tci.com

Web Site: www.lyns-tci.com

--- END ---