

# RF Exposure Evaluation Declaration

Product Name : Bluetooth module

Brand Name : MediaWave

Model No. : VT-RT6MB

FCC ID : 2AXKL-BTRT6MB

Applicant : Mediawave Intelligent Communication LTD.

Address : 5F-1,NO81,Shuili Rd,East Dist,Hsinchu City  
300,Taiwan(R.O.C.)

Date of Receipt : Sep. 13, 2022

Issued Date : Oct. 14, 2022

Report No. : 2290378R-RFUSV17S-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd.



Product Name : Bluetooth module  
Applicant : Mediawave Intelligent Communication LTD.  
Address : 5F-1,NO81,Shuili Rd,East Dist,Hsinchu City  
Manufacturer : Dongguan Liansong Electronic Technology Co.,LTD  
Address : 3 Floor, Building A, Mapu'ao Industrial Area, Sanlian Village, Fenggang Town, Dongguan City, Guangdong Province, China.  
Brand Name : MediaWave  
Model No. : VT-RT6MB  
FCC ID : 2AXKL-BTRT6MB  
EUT Voltage : DC 3.3V (host equipment)  
Applicable Standard : FCC 47 CFR Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices.  
Laboratory Name : DEKRA Testing and Certification Co., Ltd.  
Address : Hsin Chu Laboratory  
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C.  
Test Result : Complied

Documented By :



(Amelia Wu / Project Specialist)

Approved By :



(Rueyyan Lin / Supervisor)

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## Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Oct. 14, 2022

## 1. General Information

### 1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400 ~ 2483.5	2402 ~ 2480	LE: GFSK

Note: The above EUT information is declared by the manufacturer.

## 1.2. Test Facility

### Laboratory Information

<b>USA</b>	<b>:</b> <b>FCC Registration Number: TW3024</b>
<b>Canada</b>	<b>CAB identifier : TW3024</b>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	<ol style="list-style-type: none"> <li>1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.</li> <li>2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.</li> </ol>
Phone number	<ol style="list-style-type: none"> <li>1. +886-3-582-8001</li> <li>2. +886-3-582-8001</li> </ol>
Fax number	<ol style="list-style-type: none"> <li>1. +886-3-582-8958</li> <li>2. +886-3-582-8958</li> </ol>
E mail address	<a href="mailto:info.tw@dekra.com">info.tw@dekra.com</a>
Website	<a href="http://www.dekra.com.tw">http://www.dekra.com.tw</a>
Note: Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.	

## 2. RF Exposure Evaluation

### 2.1. Test Limit

(A) Test Limit for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	*(100)	<6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1500	-	-	f/300	<6
1500-100,000	-	-	5	<6

(B) Test Limit for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1500	-	-	f/1500	<30
1500-100,000	-	-	1.0	<30

Note: f = frequency in MHz; \*Plane-wave equivalent power density

Power Density (S) is calculated by the following formula:

$$S = (P \cdot G) / (4\pi R^2)$$

where:

S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

$\pi$  = 3.1416

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

## 2.2. Test Result of RF Exposure Evaluation

### Exposure Environment: General Population / Uncontrolled Exposure

Evaluation Mode	E.I.R.P (dBm)	E.I.R.P (mW)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Test Result (PASS/FAIL)
Bluetooth LE	7.770	5.984	0.001	1.000	PASS

Distance (cm): 20 for Maximum Permissible Exposure.

#### Note:

1. The above EUT information is declared by the manufacturer.
2. The results are evaluated using the maximum power.