	RF Exposure Report
5 (1)	
	MFBHCP-WTW-P22090444-1
	ACJ932AH2201
Test Model:	AH2201
Received Date:	2022/3/11
Date of Evaluation:	2022/9/15
Issued Date:	2022/11/9
Applicant:	Panasonic Corporation of North America
Address:	Two Riverfront Plaza, 9th Floor Newark New Jersey United States 07102- 5490
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
	Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
FCC Registration / Designation Number:	788550 / TW0003
	Taff Tage MRA Testing Laboratory 2021
http://www.bureauveritas.com/home/about-u to or for any other person or entity, or use e respect to the test samples identified herein test sample was taken or any similar or ide	proprotes by reference, the Conditions of Testing as posted at the date of issuance of this report s/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this rep of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely w The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which ntical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the resu provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity a



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## **Release Control Record**

Issue No.	Description	Date Issued
MFBHCP-WTW-P22090444-1	Original Release	2022/11/9



1 Certificate of Conformity			
Product:	Display Audio		
Brand:	Panasonic		
Test Model:	AH2201		
Sample Status:	Engineering Sample		
Applicant:	Panasonic Corporation of North America		
Date of Evaluation:	2022/9/15		
FCC Rule Part:	FCC Part 2 (Section 2.1091)		
Standards :	KDB 447498 D01 General RF Exposure Guidance v06		

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, 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 RF characteristics under the conditions specified in this report.

Lena Wan

Prepared by :

Lena Wang / Specialist

Date:

2022/11/9

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Date:

2022/11/9

Approved by :

Jeremy Lin / Project Engineer



# 2 RF Exposure

## 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)	
Limits For General Population / Uncontrolled Exposure					
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f²)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

f = Frequency in MHz ; \*Plane-wave equivalent power density

2.2 MPE Calculation Formula

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$ 

#### where

 $Pd = power density in mW/cm^2$ 

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

#### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



## 2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max. Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN	5745-5825	14.63	1.8	20	0.009	1.00
ВТ	2402-2480	1.73	2.6	20	0.001	1.00

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. The above Antenna information refers to the manufacturer's antenna specifications.

3. Maximum power WLAN is average power, BT is peak.

## Conclusion:

Both of the WLAN & BT can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + .....etc. < 1

CPD = Calculation power density

LPD = Limit of power density

BT + WLAN 5GHz = 0.001 + 0.009 = 0.01

Therefore the maximum calculations of above situations are less than the "1" limit.

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