

RF Exposure Report

Report No.: SABCYK-WTW-P21070588

FCC ID: RAS-MT7921

Model Name: MT7921

Received Date: Jul. 17, 2021

Test Date: Aug. 02, 2021 ~ Jan. 04, 2022

Issued Date: Jan. 19, 2022

Applicant: MediaTek Inc.

Address: No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078, Taiwan

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 (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

FCC Registration / 788550 / TW0003

Designation Number:

Test Location (2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / 281270 / TW0032

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SABCYK-WTW-P21070588	Original release	Jan. 19, 2022

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6) + BLE Combo Card

Brand: MediaTek

Model Name: MT7921

Sample Status: Engineering Sample

Applicant: MediaTek Inc.

Test Date: Aug. 02, 2021 ~ Jan. 04, 2022

Standards: FCC Part 2 (Section 2.1091)

**References Test
Guidance:** 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.

Prepared by : Celine Chou, **Date:** Jan. 19, 2022
Celine Chou / Senior Specialist

Approved by : Jeremy Lin, **Date:** Jan. 19, 2022
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 ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

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

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

π = 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**.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
1TX					
2412-2472	19.88	3.50	20	0.043	1.00
5180-5240	20.40	4.50	20	0.061	1.00
5260-5320	20.75	4.50	20	0.067	1.00
5500-5720	21.44	4.50	20	0.078	1.00
5745-5825	22.62	4.50	20	0.103	1.00
2TX					
2412-2472	21.90	3.50	20	0.069	1.00
5180-5240	21.45	4.50	20	0.078	1.00
5260-5320	21.75	4.50	20	0.084	1.00
5500-5720	21.83	4.50	20	0.085	1.00
5745-5825	22.54	4.50	20	0.101	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 is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

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