

RF Exposure Report

Report No.: SABDKG-WTW-P21060167

FCC ID: JNZVR0028

Test Model: VR0028

Received Date: June 21, 2021

Test Date: June 25 to 30, 2021

Issued Date: Aug. 10, 2021

Applicant: Logitech Far East Ltd

Address: 7700 Gateway Boulevard Newark California United States

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
SABDKG-WTW-P21060167	Original release.	Aug. 10, 2021

1 Certificate of Conformity

Product: TAP Scheduler
Brand: Logitech
Test Model: VR0028
Sample Status: Engineering sample
Applicant: Logitech Far East Ltd
Test Date: June 25 to 30, 2021
Standards: FCC Part 2 (Section 2.1091)
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 EMC characteristics under the conditions specified in this report.

Prepared by : Phoenix Huang, **Date:** Aug. 10, 2021
Phoenix Huang / Specialist

Approved by : Clark Lin, **Date:** Aug. 10, 2021
Clark Lin / Technical Manager

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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	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

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

where

P_d = power density in mW/cm²

P_{out} = 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 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
FIH	S0A260020A0	3	2.4~2.4835	Monopole	None
		4.06	5.15~5.25		
		3.99	5.25~5.35		
		2.95	5.47~5.725		
		1.9	5.725~5.85		

*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.

2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max. Average Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN (2.4GHz)	2412~2462	146.893	3	20	0.05831	1
WLAN (U-NII-1)	5180~5240	98.628	4.06	20	0.04997	1
WLAN (U-NII-2A)	5260~5320	99.312	3.99	20	0.04951	1
WLAN (U-NII-2C)	5500~5720	91.833	2.95	20	0.03604	1
WLAN (U-NII-3)	5745~5825	93.541	1.9	20	0.02882	1
BT-EDR	2402~2480	3.516	3	20	0.0014	1
BT-LE	2402~2480	1.556	3	20	0.00062	1

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

Conclusion:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

$WLAN (2.4GHz) + WLAN (5GHz) = 0.05831 / 1 + 0.04997 / 1 = 0.10828$

$WLAN (2.4GHz) + Bluetooth = 0.05831 / 1 + 0.0014 / 1 = 0.05971$

$WLAN (5GHz) + Bluetooth = 0.04997 / 1 + 0.0014 / 1 = 0.05137$

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

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