

RF Exposure Report

Report No.: SABHQC-WTW-P21100439 R1

FCC ID: 2AQ68RPQN7801

Test Model: RPQN-7801E, RPQN-7801I

Received Date: Sep. 10, 2021

Test Date: Sep. 10 ~ Sep. 16, 2021

Issued Date: Mar. 04, 2022

Applicant: Hon Lin Technology Co., Ltd.

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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





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Release Control Record

Issue No.	Description	Date Issued
SABHQC-WTW-P21100439	Original release	Nov. 30, 2021
SABHQC-WTW-P21100439 R1	Item 3 modified	Mar. 04, 2022

Report No.: SABHQC-WTW-P21100439 R1 Page No. 3 / 5 Cancels and replaces the report No.: SABHQC-WTW-P21100439 dated Nov. 30, 2021



1 Certificate of Conformity

Product: 5G NR indoor O-RU S4 RPQN-7801

Brand: Foxconn

Test Model: RPQN-7801E, RPQN-7801I

Sample Status: Mass Production

Applicant: Hon Lin Technology Co., Ltd.

Test Date: Sep. 10 ~ Sep. 16, 2021

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 :	Pethe Chan	, Date:	Mar. 04, 2022	
_	Pettie Chen / Senior Specialist			

Approved by:

, Date: Mar. 04, 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								
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

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

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

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 35cm away from the body of the user. So, this device is classified as fixed station and installations by professional service persionnel device.

3 Calculation Result of Maximum Conducted Power

For 5G NR Band n78

100MHz: QPSK

В	quency Band MHz)			Chain Bm)		Max Conducted Average Power - Totaol (dBm)	Directional	Max EIRP Power (dBm)	Max EIRP Power (W)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
3	3750	24.11	24.24	24.67	24.73	30.47	11.32	41.79	15.10	35	0.981	1

Note:

- 1. Directional gain=5.3 dBi +Array Gain(6.02)= 11.32 dBi
- 2. EIRP = Conducted + antenna gain (11.32dBi)
- 3. The antenna gain was declared by client.
- 4. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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