RF Exposure Report

Report No.:	MFBCIC-WTW-P24080108 R2
FCC ID:	U8G-P1MT03A
Test Model:	MAX BR2
Series Model:	BR2, MAX-BR2-LTEA-US-T-PRM
Received Date:	2024/8/7
Evaluation Date:	2025/1/10
Issued Date:	2025/1/17
Applicant:	PISMO LABS TECHNOLOGY LIMITED
Address:	A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
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
MFBCIC-WTW-P24080108	Original Release	2025/1/3
MFBCIC-WTW-P24080108 R1	Revise standard to KDB 447498 D01 General RF Exposure Guidance v06	2025/1/13
MFBCIC-WTW-P24080108 R2	Update distance to 22cm	2025/1/17

1 Certificate of Conformity

Product:	Peplink Pepwave Wireless Product
Brand:	peplink PEPWAVE
Test Model:	MAX BR2
Series Model:	BR2, MAX-BR2-LTEA-US-T-PRM
Sample Status:	Prototype
Applicant:	PISMO LABS TECHNOLOGY LIMITED
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.

Prepared by : Vera Huang , **Date:** 2025/1/17

Vera Huang / Specialist

Approved by : Jeremy Lin , **Date:** 2025/1/17

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/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 22 cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Calculation Result

The EUT contains two certified WWAN module (Brand: Sierra, Model: EM7411). For detail information about WWAN, please refer to FCC ID: N7NEM74B.

Mode	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WCDMA Band 2	24	2.39	22	0.072	1.000
WCDMA Band 4	24	1.98	22	0.065	1.000
WCDMA Band 5	24.3	2.92	22	0.087	0.549
LTE Band 2	24	2.39	22	0.072	1.000
LTE Band 4	24	1.98	22	0.065	1.000
LTE Band 5	24.3	2.92	22	0.087	0.549
LTE Band 7	23.8	3.12	22	0.081	1.000
LTE Band 12	24	3.58	22	0.094	0.466
LTE Band 13	24	3.66	22	0.096	0.518
LTE Band 14	24	3.78	22	0.099	0.525
LTE Band 25	24	2.39	22	0.072	1.000
LTE Band 26_Part 90	24	1.62	22	0.060	0.542
LTE Band 26_Part 22	24	2.92	22	0.081	0.549
LTE Band 41	23.8	1.5	22	0.056	1.000
LTE Band 48	23.8	-5.5	22	0.011	1.000
LTE Band 66	24	1.98	22	0.065	1.000
LTE Band 71	24	3.44	22	0.091	0.442

Note:
1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The WWAN average power refer to WWAN module (Brand: Sierra, Model: EM7411, FCC ID: N7NEM74B) certified report.
3. After technical evaluation, the verification data results of LTE B42/B43 are covered by LTE B48.

Mode	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN 2.4GHz	23.58	3.15	22	0.077	1.00
WLAN 5GHz	28.74	4.76	22	0.368	1.00

Note:
1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Refer to DEKRA lab report No.: 2420117R-RFUSV01S-A (WLAN 2.4G) and 2420117R-RFUSV03S-A (WLAN 5G) for WLAN power.

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WWAN + WWAN + WLAN 2.4GHz + WLAN 5GHz

= 0.091 / 0.442 + 0.094 / 0.466 + 0.077 / 1 + 0.368 / 1 = 0.854

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

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