



FCC 47 CFR MPE REPORT

Zhuhai Quin Technology Co., Ltd

Label Printer

Model Number: PM-2410-BT

Addition Model:

PM-2411-BT,PM-2413-BT,PM-2415-BT,PM-2412-BT,PM-2416-BT,PM-2417-BT,PM-2418-BT,PM-2419-BT,PM64D,PM64 Air,PM641D,PM641BT,PM641,PM64,PM641Air,PM642,PM642BT,PM642D,PM642Air,PM643,PM643BT,PM643D,PM64 3Air,PM645,PM645BT,PM645D,PM645Air,PM646,PM646BT,PM646D,PM646Air,PM647,PM647BT,PM647D,PM647Air,P M648,PM648BT,PM648D,PM648Air,PM649,PM649BT,PM649D,PM649Air,AM-2410-BT,AM-2411-BT,AM-2412-BT,AM-2 413-BT,AM-2414-BT,AM-2415-BT,AM-2416-BT,AM-2417-BT,AM-2418-BT,AM-2419-BT,PM-3410-BT,PM-3411-BT,PM-34 12-BT,PM-3413-BT,PM-3414-BT,PM-3415-BT,PM-3416-BT,AM-3410-BT,AM-3411-BT,AM-3412-BT,AM-3413-BT,A64BT Mini,A64BTPIUS,A64BTPro,A64BTW,A641BTW,A642BTW,A644BTW,A64BTAir,A641BTAir,D420BTAir,A644BTAir,A64 BTN,A641BTN,A642BTN,A644BTN,PM-3410-BT,PM-3411BT,A643BT,A643BTMini,A643BTPlus,A643BTPro,A643BTW, A6431BTW,A6432BTW,A6433BTW,A6443BTW,A643BTAir,A6431BTAir,A64BT,A64M,A64BT,A641M,A641BT,A642,A64 2BT,A642M,A643,A643M,A643BT,PM2410BT,PM2411BT,AM2410BT,AM2411BT,D420Air,D420D,PM-248-Pro, PM-247-Pro,PM-249-Pro,PM-344-Pro,PM-2411-Pro,PM-2410-Pro,PM-241-Pro,PM-242-Pro,PM-243-Pro,PM-245-Pro,P M-246S-Pro,PM-246-Pro,PM-246S-WF,A641,A645,A646,A647,A648,A649,A641D,A642D,A643D,A645D,A646D,A647D, A648D,A649D,A645M,A64Air,A641Air,A642Air,A643Air,A645Air,A646Air,A647Air,A648Air,A649Air,A64Plus,A641Plus,A 642Plus,A643Plus,A645Plus,A646Plus,A647Plus,A648Plus,A649Plus

FCC ID: 2ASRB-2410

Applicant:	Zhuhai Quin Technology Co., Ltd
Address:	1ST FLOOR, BUILDING 1, NO.456 CHUANGYUAN ROAD,
	XIANGZHOU DISRICT, ZHUHAI CITY
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2510027
Date of Test:	Aug. 04, 2025 ~ Oct. 10, 2025
Date of Report:	Oct. 13, 2025

Maximum Permissible Exposure

1. Applicable Standards

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

1.1. Limits for Maximum Permissible Exposure (MPE)

(a) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-10000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-10000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

1.2. MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, $d=0.2\text{m}$, as well as the gain of the used antenna, the RF power density can be obtained

2. Conducted Power Result

Mode	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)
GFSK	2402	1.5	1.413
	2441	1.35	1.365
	2480	1.29	1.346
$\pi/4$ -DQ PSK	2402	2.22	1.667
	2441	2.61	1.824
	2480	2.26	1.683
BLE 1M	2402	1.21	1.321
	2440	1.7	1.479
	2480	1.26	1.337
BLE 2M	2402	1.47	1.403
	2440	1.89	1.545
	2480	1.51	1.416

3. Calculated Result and Limit

Mode	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm2)	Limited of Power Density (S) (mW /cm2)	Test Result
				(dBi)	(Linear)			
2.4G Band								
GFSK	1.5	1±1	2	-0.58	0.875	0.00028	1	Complies
π/4-DQPSK	2.61	2±1	3	-0.58	0.875	0.00035	1	Complies
BLE 1M	1.70	1±1	2	-0.58	0.875	0.00028	1	Complies
BLE 2M	1.89	1±1	2	-0.58	0.875	0.00028	1	Complies

End of Test Report