

## MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

**Applicant:** Anker Innovations Limited

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**Product Name:** LongRange Access Point

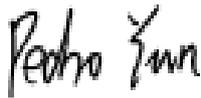
**FCC ID:** 2AOKB-T8707

**Standard(s):** 47 CFR §1.1310, 47 CFR §2.1091,  
47 CFR §15.247(i), 47 CFR §15.407(f)

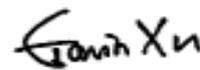
**Report Number:** 2502S56830E-RF-00E

**Report Date:** 2025/6/10

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



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**DOCUMENT REVISION HISTORY**

<b>Revision Number</b>	<b>Report Number</b>	<b>Description of Revision</b>	<b>Date of Revision</b>
1.0	2502S56830E-RF-00E	Original Report	2025/6/10

## 1. GENERAL INFORMATION

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### 1.1 General Description Of Equipment under Test

<b>EUT Name:</b>	LongRange Access Point
<b>EUT Model:</b>	T8707
<b>Rated Input Voltage:</b>	DC 5V from USB
<b>EUT Received Date:</b>	2025/5/8
<b>EUT Received Status:</b>	Good

## 2.RF EXPOSURE EVALUATION (MPE)

### 2.1. RF Exposure Evaluation

#### 2.1.1 Applicable Standard

According to subpart 15.247(i), 15.407(f) and subpart §1.1310, 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 of the Commission’s guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
<b>Frequency Range (MHz)</b>	<b>Electric Field Strength (V/m)</b>	<b>Magnetic Field Strength (A/m)</b>	<b>Power Density (mW/cm<sup>2</sup>)</b>	<b>Averaging Time (minutes)</b>
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	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;

According to §1.1310 and §2.1091 RF exposure is calculated.

#### 2.1.2 Calculation formula

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

#### 2.1.3 Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain <sup>▲</sup>		Conducted output power including Tune-up Tolerance <sup>▲</sup>		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
		(dBi)	(numeric)	(dBm)	(mW)			
900M SRD	915.2-927.8	2.97	1.98	19.0	79.43	20.00	0.031	0.6
2.4G SRD	2411-2470	6.21	4.18	20.0	100.00	20.00	0.083	1.0
5G SRD	5180-5240	7.74	5.94	17.0	50.12	20.00	0.059	1.0
	5755-5815	8.14	6.52	17.0	50.12	20.00	0.065	1.0

Note:

The Antenna Gain and Conducted output power including Tune-up Tolerance provided by manufacturer.

The antenna gain was the directional gain for 2.4G SRD and 5G SRD.

**For Simultaneous transmission:**

2.4G SRD/ 5G SRD can't transmit simultaneously, but 2.4G SRD or 5G SRD can transmit simultaneously with 900M SRD:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{2.4G\ SRD} / S_{limit-2.4G\ SRD} + S_{900M\ SRD} / S_{limit-900M\ SRD}$$

$$= 0.083/1.0 + 0.031/0.6$$

$$= 0.135$$

$$< 1.0$$

**Result:** The device meet FCC MPE at 20 cm distance

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2502S56830E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502S56830E-RF-INP EUT INTERNAL PHOTOGRAPHS.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***