

FCC RF EXPOSURE REPORT

FCC ID: 2ABVH-OONA151W

Project No. : 2512C089
Equipment : Kiosk
Brand Name : AAVA
Test Model : OONA15-1W
Model Name : OONA15-1W
Hardware Version : PV
Software Version : Android
Applicant : Aava Mobile Oy
Address : Nahkatehtaankatu 2, FI-90130 Oulu, Finland
Manufacturer : Aava Mobile Oy
Address : Nahkatehtaankatu 2, FI-90130 Oulu, Finland
Factory : Ennoconn (Suzhou) Technology Co.,Ltd
Address : BUILDING 1, 299 NANSONG RD, YU SHAN TOWN KUNSHAN
215300 JIANGSU CHINA
Date of Receipt : Dec. 08, 2025
Date of Test : Dec. 08, 2025 ~ Feb. 05, 2026
Issued Date : Feb. 09, 2026
Test Sample : Engineering Sample No.: DG920251208414
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D04 v01

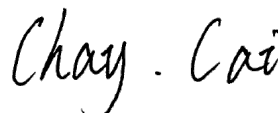
The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan).

Prepared by :



Antony Liang

Approved by :



Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Service mail: btl_qa@newbtl.com

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-7-2512C089	R00	Original Report.	Feb. 09, 2026	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

2. ANTENNA SPECIFICATION

For BT & BLE:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	IPEX 4	1.8

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	IPEX 4	0.7
2		N/A	FPC	IPEX 4	1.8

Note:

- (1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = G_{ANT} +Array Gain.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=1.8.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
Then the Directional gain= G_{ANT} +Array Gain= $G_{ANT}+10\log(N_{ANT}/N_{SS})$ dBi= 1.8+10log(2/1)dBi=4.81.
- (2) The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	IPEX 4	3.1
2		N/A	FPC	IPEX 4	3.0

Note:

- (1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = G_{ANT} +Array Gain.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=3.1.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
Then the Directional gain= G_{ANT} +Array Gain= $G_{ANT}+10\log(N_{ANT}/N_{SS})$ dBi= 3.1+10log(2/1)dBi=6.11.
So, the UNII-1, UNII-2A and UNII-2C power spectral density limit is 11-(6.11-6)=10.89,
the UNII-3 power spectral density limit is 30-(6.11-6)=29.89.
- (2) The antenna gain is provided by the manufacturer.

For 6GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	IPEX 4	3.0
2		N/A	FPC	IPEX 4	3.0

Note:

- (1) This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=3.0.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 3.0 + 10\log(2/1)\text{dBi} = 6.01$.
- (2) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

Function	Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Ratio	Result
BT	2402	1.80	1.5136	11.41	13.8357	0.0042	1.0000	0.0042	Pass
BLE	2402	1.80	1.5136	8.48	7.0469	0.0021	1.0000	0.0021	Pass
Wi-Fi 2.4GHz	2437	1.80	1.5136	21.66	146.5548	0.0441	1.0000	0.0441	Pass
Wi-Fi 5GHz	5550	3.10	2.0417	21.82	152.0548	0.0618	1.0000	0.0618	Pass
Wi-Fi 6GHz	6985	3.00	1.9953	17.02	50.3501	0.0200	1.0000	0.0200	Pass

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
BT	Wi-Fi 5GHz			
0.0042	0.0618	0.0660	1	Complies

Note:

(1) The calculated distance is 20 cm.

(2) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)

End of Test Report