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Report Template Version: V05

Report Template Revision Date: 2021-11-03

# RF Exposure Evaluation Report

**Report No.:** CQASZ20250701547E-02  
**Applicant:** Shenzhen AOEYOO Technology Co.,Ltd  
**Address of Applicant:** Room 301, Building A, Shunxing Industrial Zone, No. 10 Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, CHINA  
**Equipment Under Test (EUT):**  
**EUT Name:** 2.4G Wireless Audio Transmitter  
**Model No.:** AYW09  
**Test Model No.:** AYW09  
**Brand Name:** N/A  
**FCC ID:** 2BPTP-AYW09-TX  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 1.1310  
447498 D04 Interim General RF Exposure Guidance v01  
**Date of Receipt:** 2025-07-13  
**Date of Test:** 2025-07-13 to 2025-07-25  
**Date of Issue:** 2025-08-05  
**Test Result:** PASS\*

\*In the configuration tested, the EUT complied with the standards specified above

**Tested By:** Lewis Zhou  
( Lewis Zhou )

**Reviewed By:** Timo Lei  
( Timo Lei )

**Approved By:** Jack Ai  
( Jack Ai )



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250701547E-02	Rev.01	Initial report	2025-08-05

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### 3 General Information

#### 3.1 Client Information

Applicant:	Shenzhen AOEYOO Technology Co.,Ltd
Address of Applicant:	Room 301, Building A, Shunxing Industrial Zone, No. 10 Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, CHINA
Manufacturer:	Shenzhen AOEYOO Technology Co.,Ltd
Address of Manufacturer:	Room 301, Building A, Shunxing Industrial Zone, No. 10 Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, CHINA
Factory:	Shenzhen AOEYOO Technology Co.,Ltd
Address of Factory:	Room 301, Building A, Shunxing Industrial Zone, No. 10 Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, CHINA

#### 3.2 General Description of EUT

Product Name:	2.4G Wireless Audio Transmitter
Model No.:	AYW09
Test Model No.:	AYW09
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	20250214-VER1.0(L)
EUT Power Supply:	Powered by DC 5V for adapter

#### 3.3 General Description of 2.4G SRD

Operation Frequency:	2403MHz~2478MHz
Modulation Type:	GFSK
Number of Channel:	26
Transfer Rate:	3Mbps
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	Rubber rod antenna
Antenna Gain:	2.35dBi

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

## 4 MPE Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP<sub>20cm</sub> in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

#### 4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

### 4.1.3 EUT RF Exposure

#### 1) For 2.4G SRD

Output Power Into Antenna & RF Exposure Evaluation Distance:

$$EIRP = E_{Meas} + 20 \log(d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm  
 $E_{Meas}$  is the field strength of the emission at the measurement distance, in dB $\mu$ V/m  
 $d_{Meas}$  is the measurement distance, in m

Channel	EIRP (dBm)	ERP (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
Lowest (2403MHz)	-4.77	-6.92	0.20	3.0
Middle (2458MHz)	-6.96	-9.11	0.12	
Highest (2480MHz)	-4.88	-7.03	0.20	

EIRP(Lowest)=90.38+20log(3)-104.7=-4.77dBm, ERP=-4.77-2.15dB=-6.92dBm

EIRP(Middle)=88.2+20log(3)-104.7=-6.96dBm, ERP=-6.96-2.15dB=-9.11dBm

EIRP(Highest)=90.28+20log(3)-104.7=-4.88dBm, ERP=-4.88-2.15dB=-7.03dBm

Remark: The data refer to report Report No.: CQASZ20230901650E-01.

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