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# RF Exposure Evaluation Report

**Report No.:** CQASZ20260300645E-03  
**Applicant:** AC Infinity Inc.  
**Address of Applicant:** 21880 Baker Parkway, City of Industry, CA 91789 USA  
**Equipment Under Test (EUT):**  
**EUT Name:** THROUGH-WALL FAN  
**Model No.:** AC-TWT8, AC-TWT3, AC-TWT4, AC-TWT5, AC-TWT6, AC-TWT7, AC-TWT9, AC-TWT10, AC-TWS3, AC-TWS4, AC-TWS5, AC-TWS6, AC-TWS7, AC-TWS8, AC-TWS9, AC-TWS10, AC-TWX3, AC-TWX4, AC-TWX5, AC-TWX6, AC-TWX7, AC-TWX8, AC-TWX9, AC-TWX10  
**Test Model No.:** AC-TWT8  
**Brand Name:** N/A  
**FCC ID:** 2AXMF-TWT  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 1.1310  
447498 D04 Interim General RF Exposure Guidance v01  
**Date of Receipt:** 2026-03-30  
**Date of Test:** 2026-03-30 to 2026-04-10  
**Date of Issue:** 2026-5-28  
**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 |
|----------------------|---------|----------------|------------|
| CQASZ20260300645E-03 | Rev.01  | Initial report | 2026-5-28  |

## 2 Contents

|                                                    | Page |
|----------------------------------------------------|------|
| 1 VERSION .....                                    | 2    |
| 2 CONTENTS .....                                   | 3    |
| .....                                              | 3    |
| 3 GENERAL INFORMATION .....                        | 4    |
| 3.1 CLIENT INFORMATION .....                       | 4    |
| 3.2 GENERAL DESCRIPTION OF EUT .....               | 4    |
| 3.3 GENERAL DESCRIPTION OF BLE .....               | 4    |
| 3.4 GENERAL DESCRIPTION OF 2.4G WIFI CLASSIC ..... | 5    |
| 4 MPE EVALUATION .....                             | 6    |
| 4.1 RF EXPOSURE COMPLIANCE REQUIREMENT .....       | 6    |
| 4.1.1 Limits .....                                 | 6    |
| 4.1.2 Test Procedure .....                         | 6    |
| 4.1.3 EUT RF Exposure .....                        | 7    |

### 3 General Information

#### 3.1 Client Information

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Applicant:               | AC Infinity Inc.                                    |
| Address of Applicant:    | 21880 Baker Parkway, City of Industry, CA 91789 USA |
| Manufacturer:            | AC Infinity Inc.                                    |
| Address of Manufacturer: | 21880 Baker Parkway, City of Industry, CA 91789 USA |

#### 3.2 General Description of EUT

|                   |                                                                                                                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:     | THROUGH-WALL FAN                                                                                                                                                                                                          |
| Model No.:        | AC-TWT8, AC-TWT3, AC-TWT4, AC-TWT5, AC-TWT6, AC-TWT7, AC-TWT9, AC-TWT10, AC-TWS3, AC-TWS4, AC-TWS5, AC-TWS6, AC-TWS7, AC-TWS8, AC-TWS9, AC-TWS10, AC-TWX3, AC-TWX4, AC-TWX5, AC-TWX6, AC-TWX7, AC-TWX8, AC-TWX9, AC-TWX10 |
| Test Model No.:   | AC-TWT8                                                                                                                                                                                                                   |
| Trade Mark:       | AC INFINITY                                                                                                                                                                                                               |
| Software Version: | 3.0.29                                                                                                                                                                                                                    |
| Hardware Version: | V1.0                                                                                                                                                                                                                      |
| EUT Power Supply: | Power supply AC120V                                                                                                                                                                                                       |

#### 3.3 General Description of BLE

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| Operation Frequency: | 2402MHz~2480MHz                                                              |
| Bluetooth Version:   | Bluetooth Spec 4.2                                                           |
| Modulation Type:     | GFSK                                                                         |
| Number of Channel:   | 40                                                                           |
| Transfer Rate:       | 1Mbps, 2Mbps                                                                 |
| Sample Type:         | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable |
| Antenna Type:        | PCB antenna                                                                  |
| Antenna Gain:        | 3.37dBi                                                                      |

### 3.4 General Description of 2.4G WIFI Classic

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Frequency: | 2412MHz~2462MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Type of Modulation:  | IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz<br>IEEE 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Channel:   | IEEE 802.11b/g, IEEE 802.11n HT20/ax HE20: 11 Channels<br>IEEE 802.11n HT40/ax HE40: 7 Channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Channel Separation:  | 5MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Transfer Rate:       | IEEE for 802.11b:<br>1Mbps/2Mbps/5.5Mbps/11Mbps<br>IEEE for 802.11g :<br>6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps<br>IEEE for 802.11n(HT20) :<br>6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps<br>IEEE for 802.11n(HT40) :<br>13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps<br>IEEE for 802.11ax(HE20):<br>8.6Mbps/17.2Mbps/25.8Mbps/34.4Mbps/51.6Mbps/68.8Mbps/77.4Mbps<br>/86.7Mbps/103.3Mbps/114.7Mbps/129.0Mbps/143.4Mbps<br>IEEE for 802.11ax(HE40):<br>17.2Mbps/34.4Mbps/51.6Mbps/68.8Mbps/103.2Mbps/137.6Mbps/154.9Mbps<br>/173.3Mbps/206.5Mbps/229.4Mbps/258.1Mbps/286.8Mbps |
| Sample Type:         | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Antenna Type:        | PCB antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Antenna Gain:        | 3.37dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**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 BLE

##### Measurement Data

| GFSK mode        |               |              |                            |                       |      |
|------------------|---------------|--------------|----------------------------|-----------------------|------|
| Test channel     | EIRP<br>(dBm) | ERP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |      |
|                  |               |              |                            | (dBm)                 | (mW) |
| Lowest(2402MHz)  | 10.76         | 8.61         | 9.0±1                      | 9                     | 7.94 |
| Middle(2440MHz)  | 11.59         | 9.44         | 9.5±1                      | 9.5                   | 8.91 |
| Highest(2480MHz) | 10.93         | 8.78         | 9.0±1                      | 9                     | 7.94 |

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20260300645E-01 for EUT test Max Conducted Peak Output Power value.  
2) EUT's module is more than 20cm away from the human body.

2) For 2.4G WIFI Classic

Measurement Data

| 11B mode         |               |              |                            |                       |       |
|------------------|---------------|--------------|----------------------------|-----------------------|-------|
| Test channel     | EIRP<br>(dBm) | ERP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |               |              |                            | (dBm)                 | (mW)  |
| Lowest(2412MHz)  | 18.61         | 16.46        | 16.5±1                     | 17.5                  | 56.23 |
| Middle(2437MHz)  | 18.46         | 16.31        | 16.5±1                     | 17.5                  | 56.23 |
| Highest(2462MHz) | 17.52         | 15.37        | 15.5±1                     | 16.5                  | 44.67 |
| 11G mode         |               |              |                            |                       |       |
| Test channel     | EIRP<br>(dBm) | ERP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |               |              |                            | (dBm)                 | (mW)  |
| Lowest(2412MHz)  | 13.28         | 11.13        | 11.5±1                     | 12.5                  | 17.78 |
| Middle(2437MHz)  | 13.40         | 11.25        | 11.5±1                     | 12.5                  | 17.78 |
| Highest(2462MHz) | 12.50         | 10.35        | 10.5±1                     | 11.5                  | 14.13 |
| 11N20 mode       |               |              |                            |                       |       |
| Test channel     | EIRP<br>(dBm) | ERP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |               |              |                            | (dBm)                 | (mW)  |
| Lowest(2412MHz)  | 13.13         | 10.98        | 11.0±1                     | 12                    | 15.85 |
| Middle(2437MHz)  | 13.21         | 11.06        | 11.5±1                     | 12.5                  | 17.78 |
| Highest(2462MHz) | 12.35         | 10.2         | 10.5±1                     | 11.5                  | 14.13 |
| 11N40 mode       |               |              |                            |                       |       |
| Test channel     | EIRP<br>(dBm) | ERP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |               |              |                            | (dBm)                 | (mW)  |
| Lowest(2422MHz)  | 11.86         | 9.71         | 10.0±1                     | 11                    | 12.59 |
| Middle(2437MHz)  | 11.78         | 9.63         | 10.0±1                     | 11                    | 12.59 |
| Highest(2452MHz) | 11.23         | 9.08         | 9.5±1                      | 10.5                  | 11.22 |
| 11AX20 mode      |               |              |                            |                       |       |
| Test channel     | EIRP<br>(dBm) | ERP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |               |              |                            | (dBm)                 | (mW)  |
| Lowest(2412MHz)  | 13.63         | 11.48        | 11.5±1                     | 12.5                  | 17.78 |
| Middle(2437MHz)  | 13.77         | 11.62        | 12.0±1                     | 13                    | 19.95 |
| Highest(2462MHz) | 12.94         | 10.79        | 11.0±1                     | 12                    | 15.85 |
| 11AX40 mode      |               |              |                            |                       |       |
| Test channel     | EIRP<br>(dBm) | ERP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |               |              |                            | (dBm)                 | (mW)  |

|                  |       |       |        |      |       |
|------------------|-------|-------|--------|------|-------|
| Lowest(2422MHz)  | 12.40 | 10.25 | 10.5±1 | 11.5 | 14.13 |
| Middle(2437MHz)  | 12.32 | 10.17 | 10.5±1 | 11.5 | 14.13 |
| Highest(2452MHz) | 11.46 | 9.31  | 9.5±1  | 10.5 | 11.22 |

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20260300645E-02 for EUT test Max Conducted AV Output Power value.  
2) EUT's module is more than 20cm away from the human body.

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