

## 5. RF EXPOSURE EVALUATION

### 5.1 Maximum Permissible Exposure (MPE)

#### 5.1.1 Applicable Standard

According to 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.

#### 5.1.2 Limits

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

| (B) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
|---------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| Frequency Range (MHz)                                   | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minutes) |
| 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.

**5.1.3 Measurement**

|                |           |              |           |
|----------------|-----------|--------------|-----------|
| Serial Number: | 2ADJ-1    | Test Date:   | 2023/9/19 |
| Test Site:     | 966-1     | Test Mode:   | Operation |
| Tester:        | coco Tian | Test Result: | Pass      |

**Environmental Conditions:**

|                      |      |                           |    |                           |       |
|----------------------|------|---------------------------|----|---------------------------|-------|
| Temperature:<br>(°C) | 26.1 | Relative Humidity:<br>(%) | 66 | ATM<br>Pressure:<br>(kPa) | 100.6 |
|----------------------|------|---------------------------|----|---------------------------|-------|

**Test Equipment List and Details:**

| Manufacturer | Description             | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------------|-------|---------------|------------------|----------------------|
| ETS          | Microwave Survery Meter | 1501  | 123654        | 2023/3/17        | 2024/3/16            |

Radiation leakage was measured in the as-received condition with the oven door closed using a microwave leakage meter.

A 275 mL water load was placed in the center of the oven and the oven was operated at maximum output power.

☒ There was no microwave leakage exceeding a power level of 0.1mW/cm<sup>2</sup> observed at any point 5 cm or more from the external surface of the oven.

A maximum of 1.0 mW/cm<sup>2</sup> is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.