

RF Exposure Statement

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

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P.R. China

To whom it may concern:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch is authorized as an agency from Applicant: Suzhou Secote Precision Electronic Co.,Ltd. (FCC ID: 2A72V-APF, IC: 28856-APF) to act on their behalf in all matters relating to applications for equipment authorization, including testing the device and the signing of all documents relating to these matters.

MAXIMUM PERMISSIBLE EXPOSURE

FCC RULES

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 |
| 3.0-30 | 1842/f | 4.89/f | *900/f ² | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *100 | 30 |
| 1.34-30 | 824/f | 2.19/f | *180/f ² | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | 1.0 | 30 |

f = frequency in MHz * = Plane-wave equivalent power density

MPE CALCULATIONS

Pd = $(P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$ where

Pd = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

LIMITS

From FCC §1.1310 Table 1 (B), the maximum value of S = $180/(13.56)^2 = 0.979$ mW/cm²

RESULTS

Per the test report included herein,

| Frequency (MHz) | Max. Field Strength (dBuV/m)@3m | Max. Output Power (dBm) | Max. Output Power (mW) | Min. test separation distance (mm) | Power density (mW/cm ²) | Result |
|-----------------|---------------------------------|---------------------------|-------------------------------|------------------------------------|-------------------------------------|--------|
| 13.56 | 48.14 ^(Note 1) | 47.09 ^(Note 2) | 0.0000195 ^(Note 3) | 5mm | 0.00000062208 | Pass |

Note: 1. Field Strength (dBuV/m@3m) test result please refer to test report 709992205006-00.

2. Output power (dBm) = Field Strength (dBuV/m)@3m - 95.23.

3. Output power (mW) = 10^8 (Max power (dBm)/10)

Innovation, Science and Economic Development Canada (ISED) MPE / Health Hazard Requirement for the 13.56MHz

According to Innovation, Science and Economic Development Canada (ISED) RSS-102 Issue 5, Section 2.5.1, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1.

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance^{4,5}

| Frequency (MHz) | Exemption Limits (mW) | | | | |
|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | At separation distance of ≤5 mm | At separation distance of 10 mm | At separation distance of 15 mm | At separation distance of 20 mm | At separation distance of 25 mm |
| ≤300 | 71 mW | 101 mW | 132 mW | 162 mW | 193 mW |
| 450 | 52 mW | 70 mW | 88 mW | 106 mW | 123 mW |
| 835 | 17 mW | 30 mW | 42 mW | 55 mW | 67 mW |
| 1900 | 7 mW | 10 mW | 18 mW | 34 mW | 60 mW |
| 2450 | 4 mW | 7 mW | 15 mW | 30 mW | 52 mW |
| 3500 | 2 mW | 6 mW | 16 mW | 32 mW | 55 mW |
| 5800 | 1 mW | 6 mW | 15 mW | 27 mW | 41 mW |

RESULTS

Per the test report included herein,

| Frequency (MHz) | Max. Field Strength (dBuV/m)@3m | Max. Output Power (dBm) | Max. Output Power (mW) | Min. test separation distance (mm) |
|-----------------|---------------------------------|---------------------------|-------------------------------|------------------------------------|
| 13.56 | 48.14 ^(Note 1) | 47.09 ^(Note 2) | 0.0000195 ^(Note 3) | 5mm |

Note: 1. Field Strength (dBuV/m@3m) test result please refer to test report 709992205006-00.
 2. Output power (dBm) = Field Strength (dBuV/m)@3m - 95.23.
 3. Output power (mW) = $10^{\frac{mW}{10}}$ (Max power (dBm)/10)

EIRP (PK) = 0.0000195mW < 71 mW (At separation distance of ≤5 mm)