



RF EXPOSURE EVALUATION REPORT

Applicant: Shape Labs Inc.

Address: 179 11th St, CA 94103, San Francisco, USA

FCC ID: 2A9XISHAPESCALE-001

Product Name: Shapeshape

Standard(s): 47 CFR §1.1307

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR230101974-00G

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|-----------------|-------------------------|------------------|
| 1.0 | CR230101974-00G | Original Report | 2023/12/27 |

1. RF EXPOSURE EVALUATION

1.1 MPE-Based Exemption

1.1.1 Applicable Standard

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP 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 (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

| RF Source frequency (MHz) | Threshold ERP (watts) |
|---------------------------|-----------------------|
| 0.3-1.34 | $1,920 R^2$. |
| 1.34-30 | $3,450 R^2/f^2$. |
| 30-300 | $3.83 R^2$. |
| 300-1,500 | $0.0128 R^2 f$. |
| 1,500-100,000 | $19.2R^2$. |

1.1.2 Measurement Result

| Radio | Frequency (MHz) | $\lambda /2\Pi$ (mm) | Distance (mm) | Exemption ERP (mW) | Maximum Conducted Power including Tune-up Tolerance (dBm) | Antenna Gain (dBi) | ERP | |
|-----------|-----------------|----------------------|---------------|--------------------|---|--------------------|-------|--------|
| | | | | | | | dBm | mW |
| BDR/EDR | 2402-2480 | 19.88 | 200 | 768 | 9 | 2.20 | 9.05 | 8.04 |
| BLE | 2402-2480 | 19.88 | 200 | 768 | 7 | 2.20 | 7.05 | 5.07 |
| 2.4G WLAN | 2412-2462 | 19.80 | 200 | 768 | 28 | 2.20 | 28.05 | 638.26 |
| 5.2G WLAN | 5180-5230 | 9.22 | 200 | 768 | 18 | 5.20 | 21.05 | 127.35 |
| 5.3G WLAN | 5260-5320 | 9.08 | 200 | 768 | 18 | 5.20 | 21.05 | 127.35 |
| 5.6G WLAN | 5500-5720 | 8.68 | 200 | 768 | 18 | 5.20 | 21.05 | 127.35 |
| 5.8G WLAN | 5745-5825 | 8.31 | 200 | 768 | 18 | 5.20 | 21.05 | 127.35 |

Note:

The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

The Bluetooth and Wi-Fi can't transmission simultaneously.

Result: The device meet FCC MPE at 20 cm distance.

===== END OF REPORT =====