



## TEST REPORT

**Application No.:** GZEM1911017314CR  
**Applicant:** OjO Electric, LLC  
**Address of Applicant:** 5069 Maureen Lane Suite A-4, Moorpark, California, 93021, United States  
**Equipment Under Test (EUT):**  
**EUT Name:** OjO SCOOTER OjO500  
**Model No.:** OjO500  
**Standard(s):** 47 CFR Part 1.1307, Part 2.1093, KDB 447498  
**Date of Receipt:** 2019-11-27  
**Date of Test:** 2019-12-24 to 2020-04-24  
**Date of Issue:** 2020-06-29

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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

Kobe Jian

EMC Laboratory Manager



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2020-06-29 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                                 |                                                                                                                              |                          |             |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|
| <b>Authorized for issue by:</b> |                                                                                                                              |                          |             |
| <b>Tested By</b>                | <br><b>Jackson_Yuan /Project Engineer</b> | 2019-12-24 to 2020-04-24 | <b>Date</b> |
| <b>Checked By</b>               | <br><b>Ricky_Liu /Reviewer</b>            | 2020-06-29               | <b>Date</b> |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                                   |                    |                    |        |
|--------------------------------------|---------------------------------------------------|--------------------|--------------------|--------|
| Item                                 | Standard                                          | Method             | Requirement        | Result |
| RF Exposure                          | 47 CFR Part 1.1307,<br>Part 2.1093, KDB<br>447498 | CFR 47 Part 2.1093 | CFR 47 Part 2.1093 | Pass   |



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## 4 General Information

### 4.1 Details of E.U.T.

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Supply:              | Powered by built-in battery as below for running:<br>Primary battery<br>Rated: DC 48.1 V, 10.9 Ah, 524 Wh<br>SN: IES-IP107620190850720<br>Secondary battery<br>Rated: DC 46.8 V, 9.1 Ah, 425 Wh<br>SN: IES-IP1077201908292177<br>DC 54.6 V for charging by AC/DC adapter as below:<br>Model: BC254480030<br>Input: AC 100-240 V, 50/60Hz, 2.5A (Max);<br>Output: DC 54.6 V, 3.0 A |
| Cable:                     | For main unit: DC input ports;<br>For batteries:<br>DC charging ports;<br>DC output ports;<br>For AC/DC adapter:<br>AC mains (unshielded, 1.5 m)<br>DC output cables (unshielded, 1.2 m)                                                                                                                                                                                          |
| Antenna Gain               | 0 dBi                                                                                                                                                                                                                                                                                                                                                                             |
| Antenna Type               | PCB Antenna                                                                                                                                                                                                                                                                                                                                                                       |
| Channel Spacing            | 1MHz                                                                                                                                                                                                                                                                                                                                                                              |
| Modulation Type            | GFSK, $\pi/4$ DQPSK                                                                                                                                                                                                                                                                                                                                                               |
| Number of Channels         | 79                                                                                                                                                                                                                                                                                                                                                                                |
| Operation Frequency        | 2402MHz to 2480MHz                                                                                                                                                                                                                                                                                                                                                                |
| Spectrum Spread Technology | Frequency Hopping Spread Spectrum(FHSS)                                                                                                                                                                                                                                                                                                                                           |
| Function:                  | SCOOTER with BT speaker.                                                                                                                                                                                                                                                                                                                                                          |
| S/N                        | 1804XF18001                                                                                                                                                                                                                                                                                                                                                                       |
| Hardware Version           | HV01                                                                                                                                                                                                                                                                                                                                                                              |
| Firmware                   | SV01                                                                                                                                                                                                                                                                                                                                                                              |
| Test Software              | FCC assist 2.4.exe                                                                                                                                                                                                                                                                                                                                                                |
| Power Setting              | 3 dBm                                                                                                                                                                                                                                                                                                                                                                             |



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## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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**4.5 Deviation from Standards**

None

**4.6 Abnormalities from Standard Conditions**

None



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## 5 Radio Spectrum Technical Requirement

### 5.1 RF Exposure

#### 5.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.2 Conclusion

The Max conducted output power is 2.658 dBm in Highest channel (2.480 GHz);

2.658 dBm logarithmic terms convert to numeric result is nearly 1.84 mW

According to the formula. calculate the test result:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

General RF Exposure =  $(1.84 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{ GHz}} = 0.581$  ①

SAR requirement:

$S = 3.0$

② ;

①  $<$  ②.

So the SAR report is not required.



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## 6 Photographs

### 6.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1911017314CR.

--End of Report--



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