RF EXPOSURE REPORT FOR CERTIFICATION On Behalf of

GOGOTORO LLC

Full Circle

Model Number: WIOPB

Additional Model: FCPBBK1, FCPBCO1, FCPBBNA1, FCPBBYE1, FCPBBRE1

FCC ID: 2ASPB-WIOPB

| Prepared for: | GOGOTORO LLC | | | |
|--------------------------|---|--|--|--|
| | 60 Broadway 10M Brooklyn NY 11249 USA | | | |
| | | | | |
| Prepared By: | EST Technology Co., Ltd. | | | |
| | Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China | | | |
| Tel: 86-769-83081888-808 | | | | |

| Report Number: | ESTE-R1912062 |
|-----------------|------------------|
| Date of Test: | Dec. 05~11, 2019 |
| Date of Report: | Dec. 12, 2019 |



EST Technology Co., Ltd Report No. ESTE-R1912062 Page 1 of 15

TABLE OF CONTENTS

| <u>Descr</u> | <u>iption</u> | 1 | Page |
|--------------|---------------|-----------------------------------|------|
| TEST R | EPORT | r Verification | 3 |
| 1. | Sum | IMARY OF TEST | ∠ |
| | 1.1. | Summary of test result | ∠ |
| | 1.2. | Test Mode | |
| | 1.3. | Test Equipment List | |
| 2. | | XIMUM PERMISSIBLE EXPOSURE | |
| | 2.1. | Limit | 4 |
| | 2.2. | Test Setup | 5 |
| | | Test Procedure | |
| | 2.4. | Equipment Approval Considerations | |
| | 2.5. | Test Result | |
| 3 | TES | T SETTID PHOTO | 11 |



EST Technology Co., Ltd.

Applicant:

GOGOTORO LLC

Address:

60 Broadway 10M Brooklyn NY 11249 USA

Manufacturer:

Power7 Technology (Dong Guan) Co., Ltd.

Address:

No.28 Binjiang Blvd. Shishuikou Village, Qiaotou Town, Dongguan City,

GuangDong Province P.R.China

E.U.T:

Full Circle

Model Number:

WIOPB

Additional Model:

FCPBBK1, FCPBCO1, FCPBBNA1, FCPBBYE1, FCPBBRE1

(Except for the silicone color and model name, the rest is identical.)

Power Supply:

Type-C:PD/OC 18W

Usba: 5V2.4A/Type-C&Usba Total: 5V3.4A Max

Wireless power transmitter: 10W Max

Trade Name:

Ampere

Serial No.:

Date of Receipt:

Dec. 05, 2019

Date of Test:

Dec. 05~11, 2019

Test Specification:

FCC CFR 47 Part 1.1307(b)&1.1310

KDB 680106 D01 RF Exposure Wireless Charging Apps v03

Test Result:

The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC CFR 47 Part 1.1307(b)&1.1310 requirements. This report applies to above tested sample only and shall not be reproduced in part without written

approval of EST Technology Co., Ltd.

Date: Dec. 12, 20

Prepared by:

Reviewed by:

Shawn

Approved by

Ring / Assistant

Shawn / Engineer

Iceman Hu / Manager

Other Aspects:

None.

Abbreviations: OK/P=passed

fail/F=failed

n.a/N=not applicable

E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. SUMMARY OF TEST

1.1. Summary of test result

| Report Section | Description of Test Item | FCC Standard Section | Results |
|----------------|------------------------------|-----------------------|---------|
| 3 | Maximum Permissible Exposure | Part 1.1307(b)&1.1310 | PASS |

1.2. Test Mode

| Test Item | Test Mode | | |
|------------------------------|-----------------------------------|--|--|
| | Wireless Charging with Empty Load | | |
| Maximum Permissible Exposure | Wireless Charging with Half Load | | |
| | Wireless Charging with Full Load | | |

1.3. Test Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-----------------------|--------------|-----------|------------|------------|-----------|
| Exposure Level Tester | Narda | ELT-400 | EST-E105 | Aug. 21,19 | 1 Year |
| B-Field Probe | Narda | ELT Probe | EST-E106 | Aug. 30,19 | 1 Year |



EST Technology Co., Ltd Report No. ESTE-R1912062 Page 4 of 15

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1. Limit

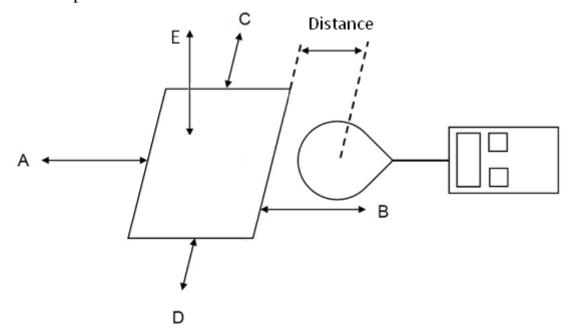
Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm2) | 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 Gene | eral Population/Unc | controlled Exposure | e | | | | | |
| 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 | | | | | |

Note:

- 1. f = frequency in MHz * = Plane-wave equivalent power density.
- 2. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2. Test Setup





EST Technology Co., Ltd Report No. ESTE-R1912062 Page 5 of 15

2.3. Test Procedure

- a. The test was performed on turn table in anechoic chamber with a dummy load.
- b. The dummy load must be placed horizontal of the EUT at the top (Parallel to the coil).
- c. The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe.
- d. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.



EST Technology Co., Ltd Report No. ESTE-R1912062 Page 6 of 15

2.4. Equipment Approval Considerations

According to the item 5(b) of KDB 680106 D01 RF Exposure Wireless Charging App v03:

Inductive wireless power transfer applications that meets KDB 680106 Clause 5(b) 6 conditions are excluded from submitting an RF exposure evaluation.

| 1 | Power transfer frequency is less that 1 MHz | | | | |
|---|---|--|--|--|--|
| | YES; the device operated in the frequency range from 110.5-205KHz. | | | | |
| 2 | Output power from each primary coil is less than or equal to 15 watts. | | | | |
| | YES; the maximum output power of the primary coil is 10W. | | | | |
| 3 | The transfer system includes only single primary and secondary coils. This includes | | | | |
| | charging systems that may have multiple primary coils and clients that are able to | | | | |
| | detect and allow coupling only between individual pairs of coils. | | | | |
| | Yes, the transfer system includes only single primary and secondary coils. | | | | |
| 4 | Client device is placed directly in contact with the transmitter. | | | | |
| | YES; Client device is placed directly in contact with the transmitter. | | | | |
| 5 | Mobile exposure conditions only (portable exposure conditions are not covered by | | | | |
| | this exclusion). | | | | |
| | NO | | | | |
| 6 | The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the | | | | |
| | top surface from all simultaneous transmitting coils are demonstrated to be less than | | | | |
| | 50% of the MPE limit. | | | | |
| | YES; The EUT field strength levels are 50% x MPE limts. | | | | |



EST Technology Co., Ltd

2.5. Test Result

| Test Mode | Full Load | Half Load | Empty Load | | | |
|-----------------------|-----------|------------------|------------|--|--|--|
| Frequency range (kHz) | | 110.5 to 205 kHz | | | | |
| Position A(V/m) | 2.201 | 1.602 | 1.049 | | | |
| Position B(V/m) | 2.325 | 1.703 | 1.226 | | | |
| Position C(V/m) | 2.221 | 1.651 | 1.111 | | | |
| Position D(V/m) | 2.409 | 1.802 | 1.278 | | | |
| Position E(V/m) | 2.205 | 1.531 | 1.193 | | | |
| Limits (V/m) | 614 | | | | | |
| 50% Limits(V/m) | | 307 | | | | |

| Test Mode | Full Load | Half Load | Empty Load | | | |
|-----------------------|-----------|------------------|------------|--|--|--|
| Frequency range (kHz) | | 110.5 to 205 kHz | | | | |
| Position A(A/m) | 0.497 | 0.353 | 0.214 | | | |
| Position B(A/m) | 0.489 | 0.344 | 0.217 | | | |
| Position C(A/m) | 0.423 | 0.325 | 0.223 | | | |
| Position D(A/m) | 0.440 | 0.331 | 0.222 | | | |
| Position E(A/m) | 0.454 | 0.392 | 0.225 | | | |
| Limits (A/m) | 1.630 | | | | | |
| 50% Limits (A/m) | 0.815 | | | | | |



EST Technology Co., Ltd Report No. ESTE-R1912062 Page 8 of 15

Test Result for Test setup B:

Empty, Half, Full load all have been tested, only worse case Max load (Full) is reported.

E-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (V/m)

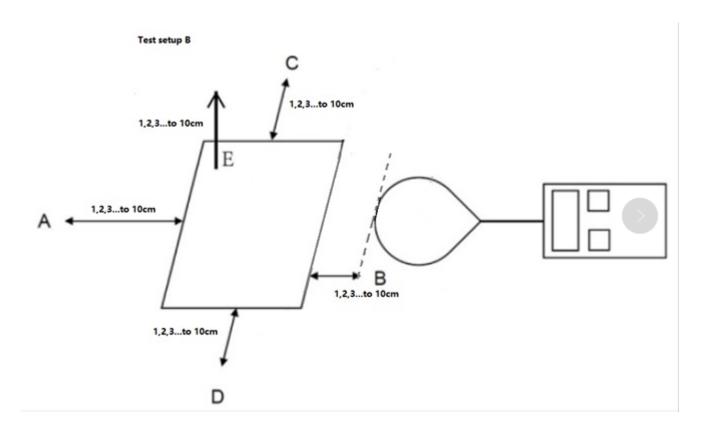
| Test distance (cm) | Position A (V/m) | Position B (V/m) | Position C (V/m) | Position D (V/m) | Position E (V/m) | Limits (V/m) |
|--------------------|------------------|------------------|---------------------|---------------------|---------------------|--------------|
| 1 | 7.698 | 7.655 | 7.521 | 7.663 | 7.654 | 614 |
| 2 | 7.018 | 7.000 | 6.998 | 6.89 | 7.021 | 614 |
| 3 | 6.451 | 6.503 | 6.525 | 6.554 | 6.527 | 614 |
| 4 | 6.120 | 6.045 | 6.054 | 5.988 | 6.103 | 614 |
| 5 | 5.645 | 5.547 | 5.615 | 5.657 | 5.655 | 614 |
| 6 | 5.131 | 5.025 | 5.154 | 5.089 | 5.144 | 614 |
| 7 | 4.632 | 4.709 | 4.597 | 4.559 | 4.612 | 614 |
| 8 | 4.250 | 4.349 | 4.325 | 4.251 | 4.322 | 614 |
| 9 | 3.791 | 3.681 | 3.709 | 3.721 | 3.686 | 614 |
| 10 | 3.321 | 3.296 | 3.355 | 3.401 | 3.410 | 614 |

H-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (A/m)

| Test distance (cm) | Position A (A/m) | Position B (A/m) | Position C (A/m) | Position D (A/m) | Position E (A/m) | Limits (A/m) |
|--------------------|------------------|------------------|---------------------|---------------------|---------------------|--------------|
| 1 | 0.711 | 0.701 | 0.693 | 0.712 | 0.705 | 1.63 |
| 2 | 0.681 | 0.683 | 0.683 | 0.692 | 0.683 | 1.63 |
| 3 | 0.670 | 0.672 | 0.675 | 0.683 | 0.665 | 1.63 |
| 4 | 0.661 | 0.665 | 0.665 | 0.661 | 0.658 | 1.63 |
| 5 | 0.651 | 0.652 | 0.651 | 0.654 | 0.645 | 1.63 |
| 6 | 0.641 | 0.642 | 0.635 | 0.633 | 0.634 | 1.63 |
| 7 | 0.621 | 0.621 | 0.625 | 0.625 | 0.618 | 1.63 |
| 8 | 0.605 | 0.613 | 0.594 | 0.597 | 0.613 | 1.63 |
| 9 | 0.593 | 0.595 | 0.588 | 0.589 | 0.609 | 1.63 |
| 10 | 0.591 | 0.575 | 0.585 | 0.581 | 0.591 | 1.63 |

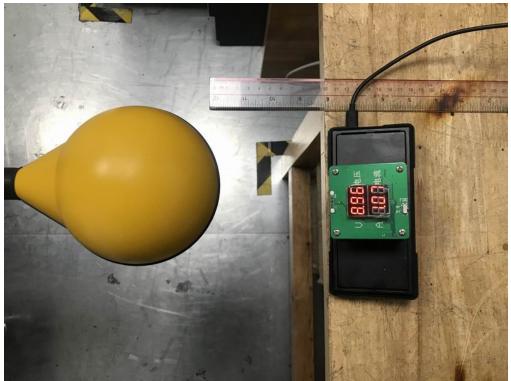


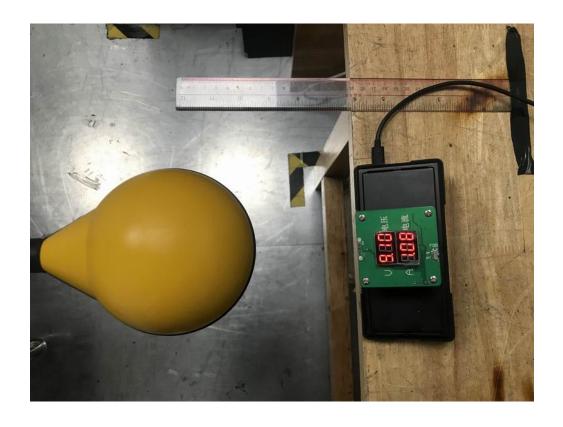
EST Technology Co., Ltd Report No. ESTE-R1912062 Page 9 of 15



3. TEST SETUP PHOTO



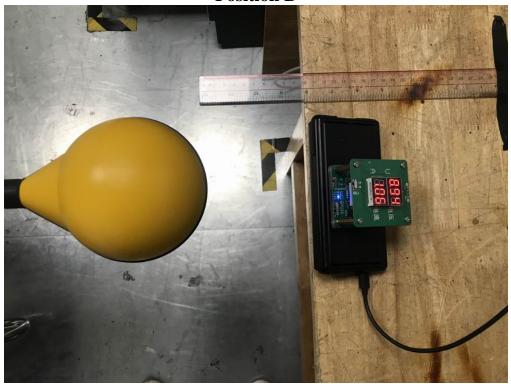


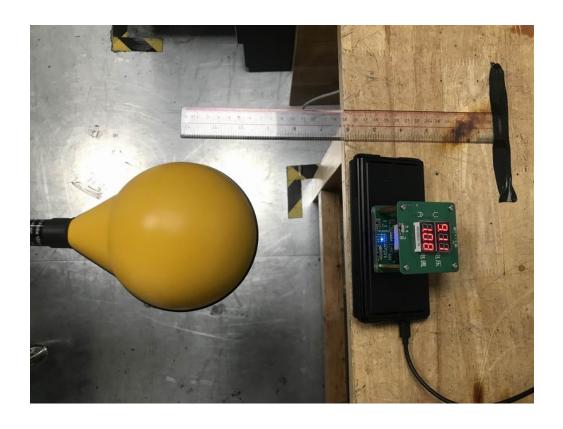




EST Technology Co., Ltd Report No. ESTE-R1912062 Page 11 of 15

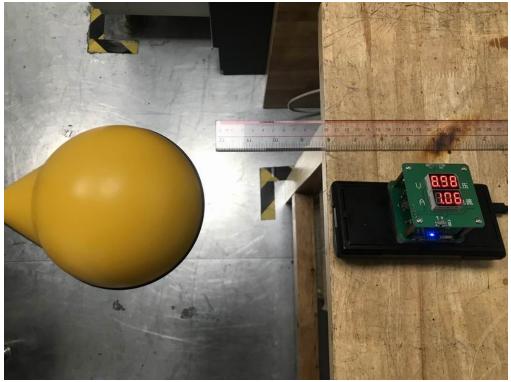


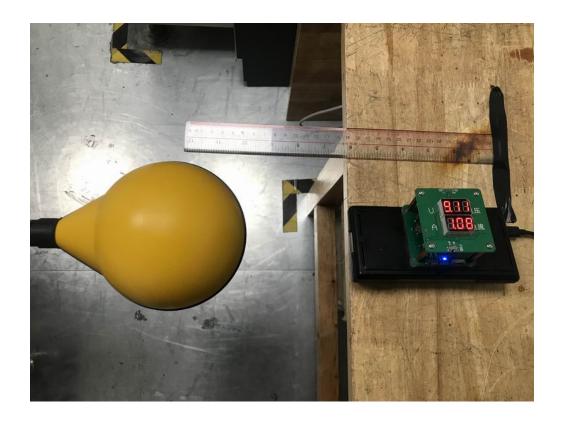




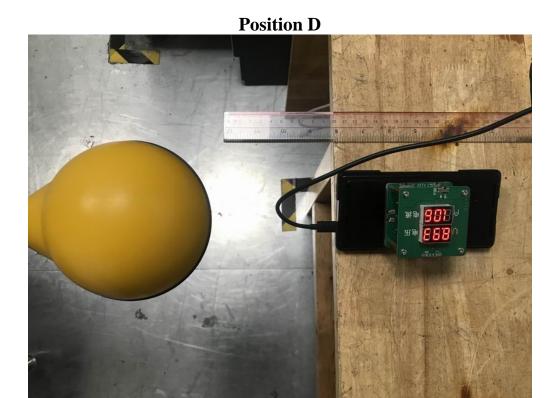


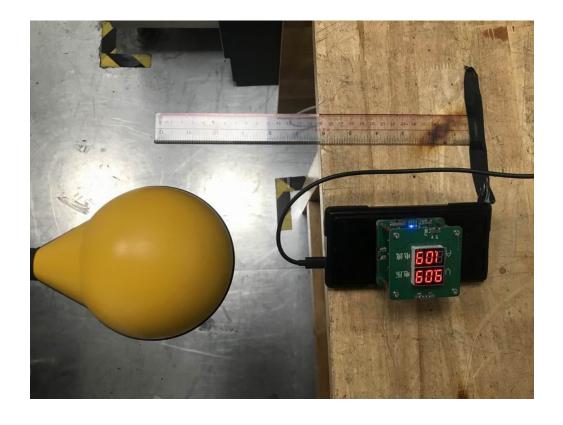




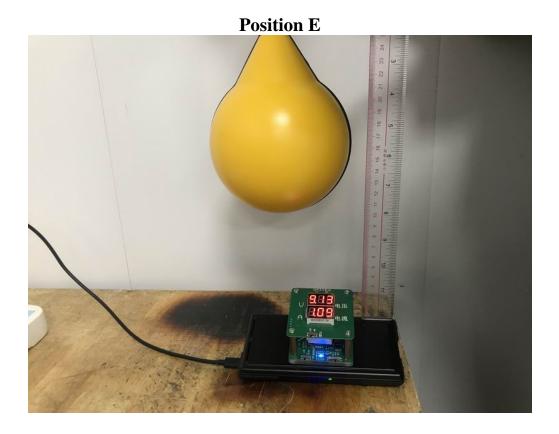


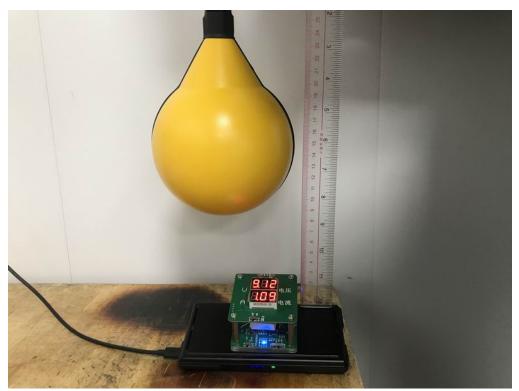












End of Test Report



EST Technology Co., Ltd Report No. ESTE-R1912062 Page 15 of 15