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SAR Evaluation Report

SZEM1506003513CR **Application No.:**

iOttie Inc. Applicant:

Manufacturer: Seenda Technology Co., Limited **Factory:** Seenda Technology Co., Limited

iOttie MiGo Selfie Stick for Smartphone & GoPro Product Name:

Model No.(EUT): Black color:HLMPIO110BK Add Model No: White color:HLMPIO110WH

Trade Mark: iOttie

FCC ID: 2AE7Z-MGO-1000

Standards: 47 CFR Part 1.1307 (2014)

47 CFR Part 2.1093 (2014)

KDB447498D01 General RF Exposure Guidance v05r02

Date of Receipt: 2015-06-19

Date of Test: 2015-06-23 to 2015-06-25

Date of Issue: 2015-07-02

Test Result: PASS*

Authorized Signature:



Jack Zhang **EMC Laboratory Manager**

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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. All test results in this report can be traceable to National or International Standards.

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



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2 Version

| Revision Record | | | | | |
|-----------------|---------|------------|----------|----------|--|
| Version | Chapter | Date | Modifier | Remark | |
| 00 | | 2015-07-02 | | Original | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | |
|--------------------------|---------------------------------|------------|
| Tested By | Chris Thong | 2015-06-25 |
| | (Chris Zhong) /Project Engineer | Date |
| Prepared By | Vivi Zhou | 2015-07-02 |
| | (Vivi Zhou) /Clerk | Date |
| Checked By | Owen Zhou | 2015-07-02 |
| | (Owen Zhou) /Reviewer | Date |

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4 General Information

4.1 Client Information

| Applicant: | iOttie Inc. | | |
|--------------------------|---|--|--|
| Address of Applicant: | 33 West 46 st 6FL New York, NY 10036 | | |
| Manufacturer: | Seenda Technology Co., Limited | | |
| Address of Manufacturer: | 3F C Building, Getailong Industrial Zone, No.445, West Bulong Road, Longgang District, Shenzhen, China. | | |
| Factory: | Seenda Technology Co., Limited | | |
| Address of Factory: | 3F C Building, Getailong Industrial Zone, No.445, West Bulong Road, Longgang District, Shenzhen, China. | | |

4.2 General Description of EUT

| Product Name: | iOttie MiGo Selfie Stick for Smartphone & GoPro |
|-----------------------|--|
| Model No.: | HLMPIO110BK |
| Trade Mark: | iOttie |
| Operation Frequency: | 2402MHz~2480MHz |
| Bluetooth Version: | 3.0 |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) |
| Modulation Type: | GFSK |
| Number of Channel: | 79 |
| Hopping Channel Type: | Adaptive Frequency Hopping systems |
| Sample Type: | Portable production |
| Test Power Grade: | TX GC 63 (manufacturer declare) |
| Test Software of EUT: | Airoha.AB1100FamilyLabTestTool (manufacturer declare) |
| Antenna Type: | Integral |
| Antenna Gain: | 2.3dBi |
| Power Supply: | Internal rechargeable battery: 3.7V 0.44Wh |
| | Charge by USB |

Remark:

Model No.: HLMPIO110BK(Black color), HLMPIO110WH(White color)

Only the model HLMPIO110BK was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color.



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4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab
No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.4 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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 No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None

4.7 Other Information Requested by the Customer

None.

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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v05r02

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is 0.31dBm in highest channel(2.480GHz);

The best case gain of the antenna is 2.3dBi.

EIRP= 0.31dBm + 2.3dBi = 2.61dBm

0.31dBm logarithmic terms convert to numeric result is nearly 1.0740mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(1.0740 \text{mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{GHz}} = 0.3383 \text{ }\bigcirc$

SAR requirement:

S = 3.0

②;

(1) < (2).

So the SAR report is not required.