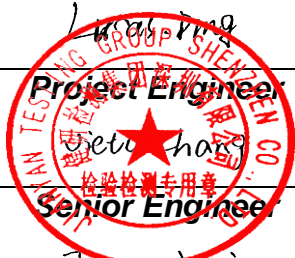


RF Exposure Evaluation Report

Report No.: JYTSZ-R12-2301683
Applicant: Shenzhen Giesonwell Technology Co., Ltd
Address of Applicant: Room 201, Building 25, Zhiheng Industrial Park, No.15
Guankou 2nd Road, Nantou Street, Shenzhen, China
Equipment Under Test (EUT)
Product Name: Booster
Model No.: Link50, Link10, Link30
Trade mark: N/A
FCC ID: 2BDYJ-LK103050
Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)
Date of sample receipt: 27 Nov., 2023
Date of Test: 28 Nov., to 26 Dec., 2023
Date of report issue: 27 Dec., 2023
Test Result: PASS

| | | | |
|---------------------|--|--------------|---------------------------|
| Project by: |  _____ | Date: | _____ 27 Dec., 2023 _____ |
| Reviewed by: | _____ | Date: | _____ 27 Dec., 2023 _____ |
| Approved by: | James Wei _____ Manager | Date: | _____ 27 Dec., 2023 _____ |

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 27 Dec., 2023 | Original |
| | | |
| | | |
| | | |
| | | |

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3 General Information

3.1 Client Information

| | |
|-----------------------|--|
| Applicant: | Shenzhen Giesonwell Technology Co., Ltd |
| Address: | Room 201, Building 25, Zhiheng Industrial Park, No.15 Guankou 2nd Road, Nantou Street, Shenzhen, China |
| Manufacturer/Factory: | Shenzhen Giesonwell Technology Co., Ltd |
| Address: | Room 201, Building 25, Zhiheng Industrial Park, No.15 Guankou 2nd Road, Nantou Street, Shenzhen, China |

3.2 General Description of E.U.T.

| | | |
|------------------------|--|--|
| Product Name: | Booster | |
| Model No.: | Link50, Link10, Link30 | |
| Operation Frequency: | LTE band 4: | Uplink: 1710 MHz - 1755 MHz Downlink: 2110 MHz - 2155 MHz |
| | LTE band 5: | 824 MHz - 849 MHz Downlink: 869 MHz - 894 MHz |
| | LTE band 12: | Uplink: 699 MHz - 716 MHz Downlink: 729 MHz - 746 MHz |
| | LTE band 13: | Uplink: 777MHz - 787 MHz Downlink:746 MHz - 756 MHz |
| | LTE band 25: | Uplink:1850MHz - 1910 MHz Downlink:1930 MHz - 1990 MHz |
| Antenna Type: | Wall mounted antenna(ANT1) log periodic antenna(ANT2) | |
| Antenna gain: | LTE band 4: | ANT1: 7.02dBi; ANT2: 7.63 (declare by Applicant) |
| | LTE band 5: | ANT1: 6.20dBi; ANT2: 7.24 (declare by Applicant) |
| | LTE band 12: | ANT1: 4.51dBi; ANT2: 6.30 (declare by Applicant) |
| | LTE band 13: | ANT1: 4.51dBi; ANT2: 6.30 (declare by Applicant) |
| | LTE band 25: | ANT1: 7.82dBi; ANT2: 7.38 (declare by Applicant) |
| Test Sample Condition: | Link50, Link10, Link30 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name. | |

3.3 Operating Modes

| Operating mode | Detail description |
|----------------|--|
| Uplink mode: | Keep the EUT in B4/5/12/13/25 Uplink mode |
| Downlink mode: | Keep the EUT in B4/5/12/13/25Downlink mode |

3.4 Additions to, deviations, or exclusions from the method

| |
|----|
| No |
|----|

3.5 Laboratory Facility

| |
|---|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. |
|---|

● CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4 Technical Requirements Specification

4.1 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

| 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 Exposures | | | | |
| 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 |
| 300–1500 | | | f/300 | 6 |
| 1500–100,000 | | | 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 |
| 300–1500 | | | f/1500 | 30 |
| 1500–100,000 | | | 1.0 | 30 |

4.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

4.3 Result

| Frequency (MHz) | Maximum Output power (dBm) | Maximum Output power (mW) | Antenna Gain (dBi) | Antenna Gain (numeric) | Distance (cm) | Result (mW/cm ²) | Limits for General Population/ Uncontrolled Exposure (mW/cm ²) |
|-----------------|----------------------------|---------------------------|--------------------|------------------------|---------------|------------------------------|--|
| B4 | | | | | | | |
| 1732.5 | 11.94 | 15.63 | 7.63 | 5.79 | 20 | 0.002 | 1.0 |
| 2132.5 | 20.30 | 107.15 | 7.63 | 5.79 | 20 | 0.014 | 1.0 |
| B5 | | | | | | | |
| 863.5 | 11.30 | 13.489 | 7.24 | 5.30 | 20 | 0.002 | 0.58 |
| 881.5 | 18.31 | 67.76 | 7.24 | 5.30 | 20 | 0.008 | 0.59 |
| B12 | | | | | | | |
| 707.5 | 12.25 | 16.79 | 6.30 | 4.27 | 20 | 0.002 | 0.58 |
| 737.5 | 18.57 | 71.94 | 6.30 | 4.27 | 20 | 0.007 | 0.59 |
| B13 | | | | | | | |
| 782.00 | 11.92 | 15.56 | 6.30 | 4.27 | 20 | 0.001 | 0.58 |
| 751.00 | 18.57 | 71.94 | 6.30 | 4.27 | 20 | 0.007 | 0.59 |
| B25 | | | | | | | |
| 1882.5 | 12.38 | 17.29 | 7.82 | 6.05 | 20 | 0.002 | 1.0 |
| 1962.5 | 19.65 | 92.26 | 7.82 | 6.05 | 20 | 0.012 | 1.0 |
| BT | | | | | | | |
| 2480 | -8.418 | 0.14 | 1 | 1.26 | 20 | 0.011 | 1.0 |
| 2.4GHz WiFi | | | | | | | |
| 2412 | 16.48 | 44.46 | 1 | 1.26 | 20 | 0.00004 | 1.0 |

Simultaneous transmission(Worse mode):

| Mode | Ratio | Total Ratio | Limit |
|------------------------|-------|-------------|-------|
| 2.4G WiFi | 0.011 | 0.027 | 1.00 |
| LTE Band 4 (1732.5MHz) | 0.002 | | |
| LTE Band 4 (2132.5MHz) | 0.014 | | |

Note: Just the worst case mode was shown in report.

4.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----