



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200419002

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Human Exposure Report

Application No.: SZCR2312004190AT
Applicant: NEW AUDIO LLC.
Address of Applicant: 780 3RD AVENUE SUITE 1401 NEW YORK, NY 10017 US, New York
 10001 United States
Manufacturer: NEW AUDIO LLC.
Address of Manufacturer: 780 3RD AVENUE SUITE 1401 NEW YORK, NY 10017 US, New York
 10001 United States

Equipment Under Test (EUT):
EUT Name: Inductive Charger
Model No.: MC105
Trade Mark: Master&Dynamic
FCC ID: 2AGA7MC100
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2023-12-19
Date of Test: 2023-12-31 to 2024-01-11
Date of Issue: 2024-01-24

| | |
|----------------------|--------------|
| Test Result : | Pass* |
|----------------------|--------------|

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

Keny Xu
EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2024-01-24 | | Original |
| | | | | |
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|---------------------------------|--|------------------------------|--|
| Authorized for issue by: | | | |
| | | | |
| | | Charlie Dai/Project Engineer | |
| | | | |
| | | Eric Fu/Reviewer | |



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3 General Information

3.1 Details of E.U.T.

| | |
|------------------|--|
| Power Supply: | Input: DC 5V/1.5A and 9V 1.5A Wireless Output:5W, 7.5W and 10W |
| Cable(s): | Type C cable:97cm unshielded |
| Frequency Range | 122.80KHz to 147.60KHz |
| Modulation type: | Load modulation |
| Antenna type: | Loop Antenna |
| Remark: | This device has been tested the worst status of full load and the device has been tested with load at 5W, 7.5W and 10W, the worst case 10W is reported only. |

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------|--------------|-----------|-------------------|
| Adapter | SAMSUNG | EP-TA200 | REF. No.SEA05K01F |
| iPhone 13 | Apple | MLDYCH/A | REF. No.SEA16Q00 |
| Mobile Phone | SAMSUNG | SM-G9810 | REF. No.SEA16K00 |
| E-loading | SGS | N/A | REF. No.SEA42A00 |



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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



4 Equipments Used during Test

| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Due date |
|------|---------------------------|--------------|-----------|---------------|---------------|
| 1 | 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2025-04-01 |
| 2 | MAGPy-8H3D+E3D | SPEAG | MAGPy | SEM060-31 | 2024-11-14 |
| 3 | MAGPy-DAS | SPEAG | MAGPy | SEM060-32 | 2024-11-14 |



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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 20cm

Limit:

| 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 |

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

5.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Pre-scan | 00 | Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W). |
| Pre-scan | 01 | Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W). |
| Final test | 02 | Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W). |

5.1.3 Measurement Data

Output Voltage=DC 9V; The max output power =10W

Magnetic Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result | | | 50 % Limit (A/m) | 10 % Limit (A/m) |
|--|--------------------------|------------------|----------------------|-----------|-----------|------------------------|------------------------|
| | | | (A/m) | | | | |
| | | | unload | Half load | full load | | |
| 125 kHz which is the worst case within the operation frequency range | 20 | Side 1 | 0.052 | 0.054 | 0.062 | 0.815 | 0.163 |
| | | Side 2 | 0.039 | 0.047 | 0.055 | | |
| | | Side 3 | 0.043 | 0.052 | 0.061 | | |
| | | Side 4 | 0.054 | 0.060 | 0.063 | | |
| | | Top | 0.039 | 0.032 | 0.038 | | |



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| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result(A/m) | | | 50 % Limit (A/m) | 10 % Limit (A/m) |
|---|--------------------|---------------|---------------------------|---------------------|-------------|------------------|------------------|
| | | | zero charge | intermediate charge | full charge | | |
| 125 kHz which is the worst case within the operation frequency range | 20 | Side 1 | 0.071 | 0.058 | 0.031 | 0.815 | 0.163 |
| | | Side 2 | 0.062 | 0.053 | 0.028 | | |
| | | Side 3 | 0.067 | 0.056 | 0.031 | | |
| | | Side 4 | 0.069 | 0.058 | 0.033 | | |
| | | Top | 0.034 | 0.039 | 0.021 | | |

Electric Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (V/m) | | | 50 % Limit (V/m) | 10 % Limit (V/m) |
|---|--------------------|---------------|----------------------------|-----------|-----------|------------------|------------------|
| | | | unload | Half load | full load | | |
| 125 kHz which is the worst case within the operation frequency range | 20 | Side 1 | 0.041 | 0.093 | 0.133 | 307 | 61.4 |
| | | Side 2 | 0.051 | 0.092 | 0.112 | | |
| | | Side 3 | 0.055 | 0.084 | 0.103 | | |
| | | Side 4 | 0.062 | 0.083 | 0.092 | | |
| | | Top | 0.041 | 0.061 | 0.079 | | |



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| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result(V/m) | | | 50 % Limit (V/m) | 10 % Limit (V/m) |
|---|--------------------|---------------|---------------------------|---------------------|-------------|------------------|------------------|
| | | | zero charge | intermediate charge | full charge | | |
| 125 kHz which is the worst case within the operation frequency range | 20 | Side 1 | 0.114 | 0.086 | 0.095 | 307 | 61.4 |
| | | Side 2 | 0.088 | 0.072 | 0.052 | | |
| | | Side 3 | 0.103 | 0.092 | 0.052 | | |
| | | Side 4 | 0.082 | 0.072 | 0.055 | | |
| | | Top | 0.072 | 0.061 | 0.042 | | |

- End of the Report -



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