
FCC Test Report

Report No.: AGC00798180404FE03A

FCC ID : 2APN8-RBT80
APPLICATION PURPOSE : Class II Permissive Change
PRODUCT DESIGNATION : Bluetooth Headset
BRAND NAME : Rambotech
MODEL NAME : ML80
APPLICANT : Shenzhen Rambo Weiye Electronic Co., Ltd
DATE OF ISSUE : Aug. 24, 2024
STANDARD(S) : FCC Part 15 Subpart C §15.249
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Aug. 24, 2024 | Valid | Initial Release |

Note: The original test report AGC00798180404FE03 (dated May 08, 2018 and tested from Apr. 19, 2018 to Apr. 27, 2018) was modified on Aug. 24, 2023, including the following changes and additions for:

- Added the name and address of the factory;
- Changed the address of the applicant and manufacturer;
- The RF module of the current application product and the RF module of the original project are not subject to any changes, but the USB part circuit is optimized, the USB port is improved. Change the USB port from Micro-B to Type-C;
- Changed the product name and test model name;
- Removed series models;
- Change the antenna gain from 2dBi to 0dBi (No change in the Antenna type);

For the above described change the following tests was considered to be necessary:

| Clause | Testing |
|----------------|-------------------|
| §15.249&15.209 | Radiated Emission |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

TABLE OF CONTENTS

| | |
|--|-----------|
| 1. VERIFICATION OF CONFORMITY..... | 4 |
| 2. GENERAL INFORMATION | 5 |
| 2.1. PRODUCT DESCRIPTION | 5 |
| 2.2. TABLE OF CARRIER FREQUENCY..... | 6 |
| 3. MEASUREMENT UNCERTAINTY | 7 |
| 4. DESCRIPTION OF TEST MODES | 8 |
| 5. SYSTEM TEST CONFIGURATION | 9 |
| 5.1. CONFIGURATION OF EUT SYSTEM..... | 9 |
| 5.2 EQUIPMENT USED IN TESTED SYSTEM..... | 9 |
| 5.3. SUMMARY OF TEST RESULTS | 9 |
| 6. TEST FACILITY | 10 |
| 7. RADIATED EMISSION | 11 |
| 7.1TEST LIMIT | 11 |
| 7.2. MEASUREMENT PROCEDURE | 12 |
| 7.3. TEST SETUP..... | 14 |
| 7.4. TEST RESULT..... | 15 |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP | 20 |
| APPENDIX B: PHOTOGRAPHS OF THE EUT | 20 |



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

1. VERIFICATION OF CONFORMITY

| | |
|-------------------------------------|---|
| Applicant | Shenzhen Rambo Weiye Electronic Co., Ltd. |
| Address | 3A05, Block 3, 182 Design Park, NO 182, Bulan Rd, Buji Longgang district, Shenzhen, China |
| Manufacturer | Shenzhen Rambo Weiye Electronic Co., Ltd. |
| Address | 3A05, Block 3, 182 Design Park, NO 182, Bulan Rd, Buji Longgang district, Shenzhen, China |
| Factory | Shenzhen Rambo Weiye Electronic Co., Ltd. |
| Address | 3A05, Block 3, 182 Design Park, NO 182, Bulan Rd, Buji Longgang district, Shenzhen, China |
| Product Designation | Bluetooth Headset |
| Brand Name | Rambotech |
| Test Model | ML80 |
| Series Model | N/A |
| Declaration of Difference | N/A |
| Date of receipt of test item | Aug. 22, 2023 |
| Date of test | Aug. 22, 2023 to Aug. 24, 2023 |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | AGCRT-US-2.4G/RF |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

| | | |
|-------------|--|---------------|
| Prepared By |  | |
| | Thea Huang (Project Engineer) | Aug. 24, 2024 |
| Reviewed By |  | |
| | Calvin Liu (Reviewer) | Aug. 24, 2024 |
| Approved By |  | |
| | Max Zhang (Authorized Officer) | Aug. 24, 2024 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| | |
|---|---|
| Operation Frequency | 2.402 GHz to 2.480GHz |
| RF Output Power | 1.79dBm(Max EIRP Power=Max radiation field-95.2) |
| Bluetooth Version | V4.1 |
| Modulation | BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> π /4-DQPSK, <input checked="" type="checkbox"/> 8DPSK BLE <input type="checkbox"/> GFSK |
| Number of channels | 79 for BR/EDR |
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Antenna Designation | PCB Antenna |
| Antenna Gain | 0dBi |
| Power Supply | DC 3.7V by battery |
| Note: 1. The USB port only used for charging and can't be used to transfer data with PC. 2. The BT function of EUT didn't work when charging | |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

2.2. TABLE OF CARRIER FREQUENCY

BR/EDR channel List

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHz | 0 | 2402MHz |
| | 1 | 2403MHz |
| | : | : |
| | 38 | 2440 MHz |
| | 39 | 2441 MHz |
| | 40 | 2442 MHz |
| | : | : |
| | 77 | 2479 MHz |
| | 78 | 2480 MHz |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.9$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

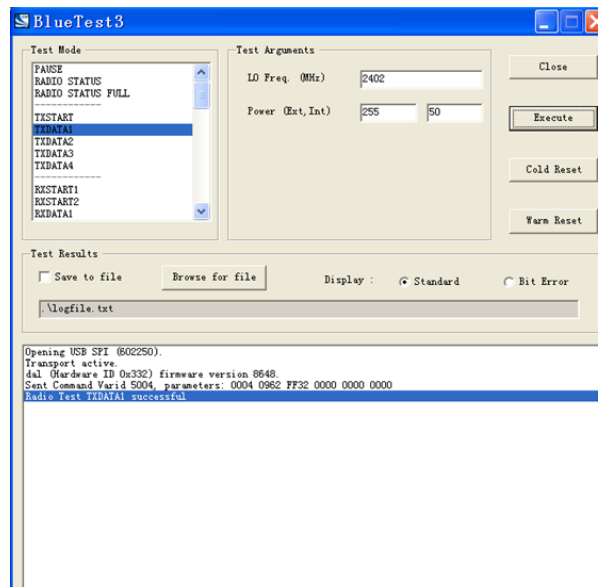
4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-------------------------------|
| 1 | Low channel GFSK |
| 2 | Middle channel GFSK |
| 3 | High channel GFSK |
| 4 | Low channel $\pi/4$ -DQPSK |
| 5 | Middle channel $\pi/4$ -DQPSK |
| 6 | High channel $\pi/4$ -DQPSK |
| 7 | Low channel 8DPSK |
| 8 | Middle channel 8DPSK |
| 9 | High channel 8DPSK |
| 10 | BT Link |

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The EUT used fully-charged battery when tested.

Software Setting

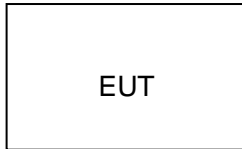


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



5.2 EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Mfr/Brand | Model/Type No. | Remark |
|------|------------------|-----------|----------------|--------|
| 1 | Wireless Headset | Rambotech | ML80 | EUT |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|----------------|---------------------|-----------|
| §15.249&15.209 | Radiated Emission | Compliant |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

6. TEST FACILITY

| | |
|--|--|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Designation Number | CN1259 |
| FCC Test Firm Registration Number | 975832 |
| A2LA Cert. No. | 5054.02 |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|----------------|-----------|--------------|---------------|---------------|
| Test Receiver | R&S | ESCI | 10096 | Feb. 18, 2023 | Feb. 17, 2024 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Jun. 01, 2023 | May 31, 2024 |
| Signal Analyzer | Aglient | N9020A | MY52090123 | Jun. 03, 2023 | Jun. 02, 2024 |
| 2.4GHz Filter | EM Electronics | N/A | N/A | Mar. 18, 2022 | Mar. 19, 2024 |
| Horn Antenna | SCHWARZBEC | BBHA 9170 | #768 | Oct. 31, 2021 | Oct. 30, 2023 |
| Active Loop Antenna (9K-30Mhz) | ZHINAN | ZN30900C | 18051 | Mar. 12, 2022 | Mar. 11, 2024 |
| Double-Ridged Waveguide Horn | ETS | 3117 | 00034609 | Apr. 23, 2023 | Apr. 22, 2024 |
| Double-Ridged Waveguide Horn | ETS | 3117 | 00154520 | Jun. 03, 2023 | Jun. 02, 2024 |
| Preamplifier Assembly | ETS | 3117PA | 00225134 | Sep. 01, 2022 | Sep. 02, 2024 |
| Wideband Antenna | SCHWARZBECK | VULB9168 | VULB9168-494 | Jan. 05, 2023 | Jan. 04, 2025 |
| Test software | FARA | EZ-EMC | Ver.RA-03A | N/A | N/A |
| Test software | Tonscend | JS32-RE | Ver.2.5 | N/A | N/A |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

7. RADIATED EMISSION

7.1 TEST LIMIT

Standard FCC15.249

| Fundamental Frequency | Field Strength of Fundamental (millivolts/meter) | Field Strength of Harmonics (microvolts/meter) |
|-----------------------|---|---|
| 900-928MHz | 50 | 500 |
| 2400-2483.5MHz | 50 | 500 |
| 5725-5875MHz | 50 | 500 |
| 24.0-24.25GHz | 250 | 2500 |

Standard FCC 15.209

| Frequency (MHz) | Distance Meters | Field Strengths Limit | |
|--------------------|--------------------|---|----------------|
| | | μ V/m | dB(μ V)/m |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | --- |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | --- |
| 1.705 ~ 30 | 30 | 30 | --- |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average) | |

Remark:

- (1) Emission level $\text{dB } \mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |
| Start ~Stop Frequency | 1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/10Hz for Average |

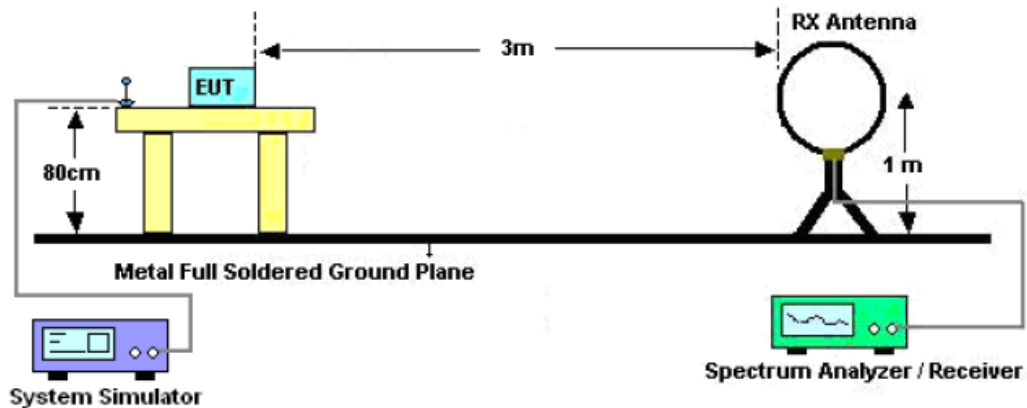
| Receiver Parameter | Setting |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

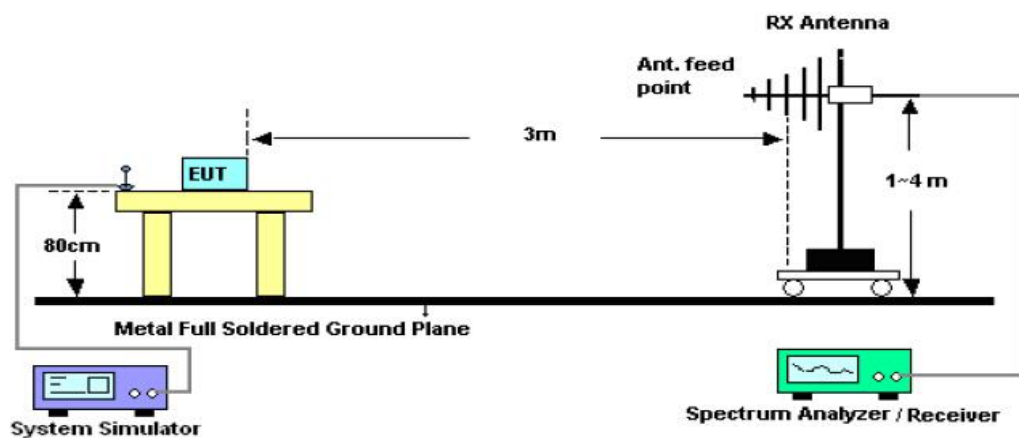
Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

7.3. TEST SETUP

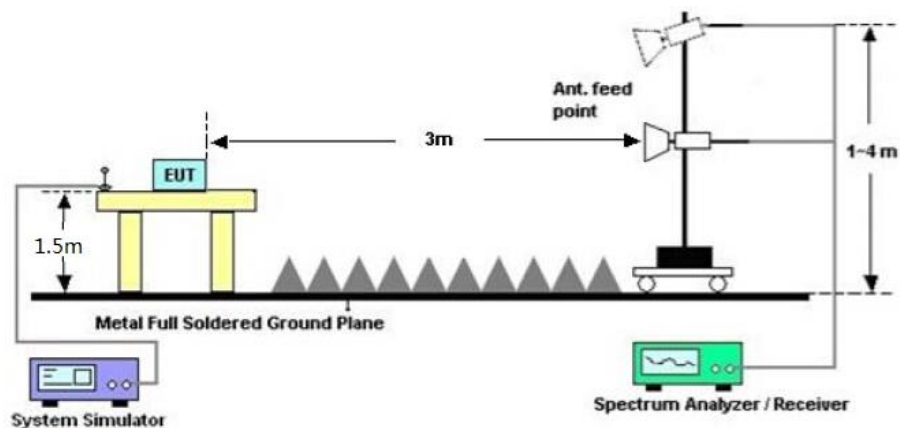
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

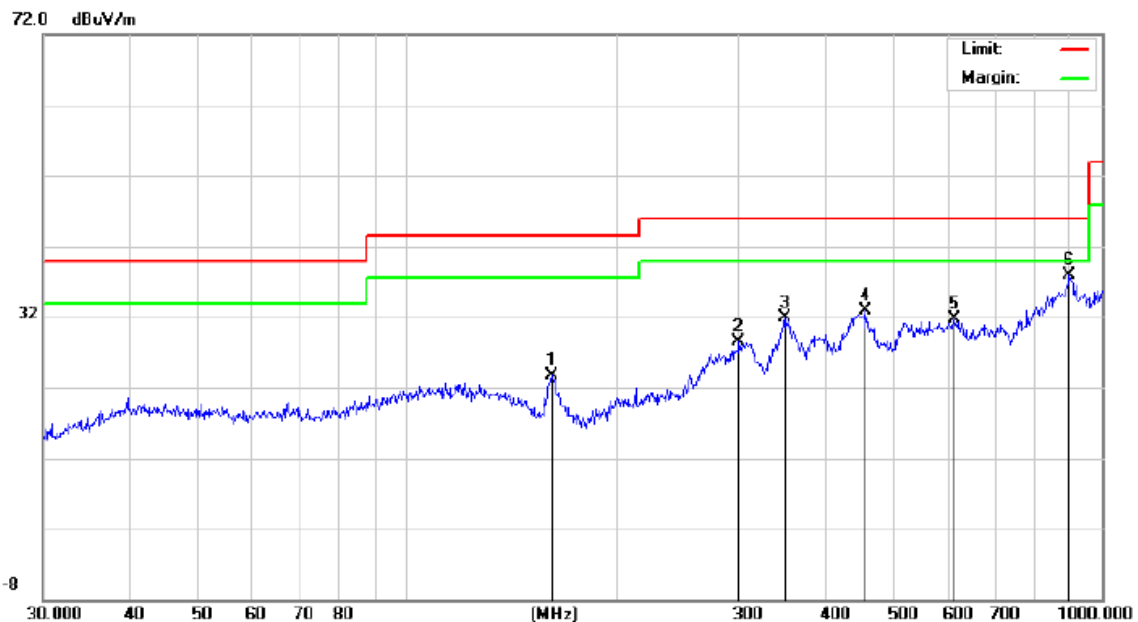
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

RADIATED EMISSION 30MHz- 1GHZ

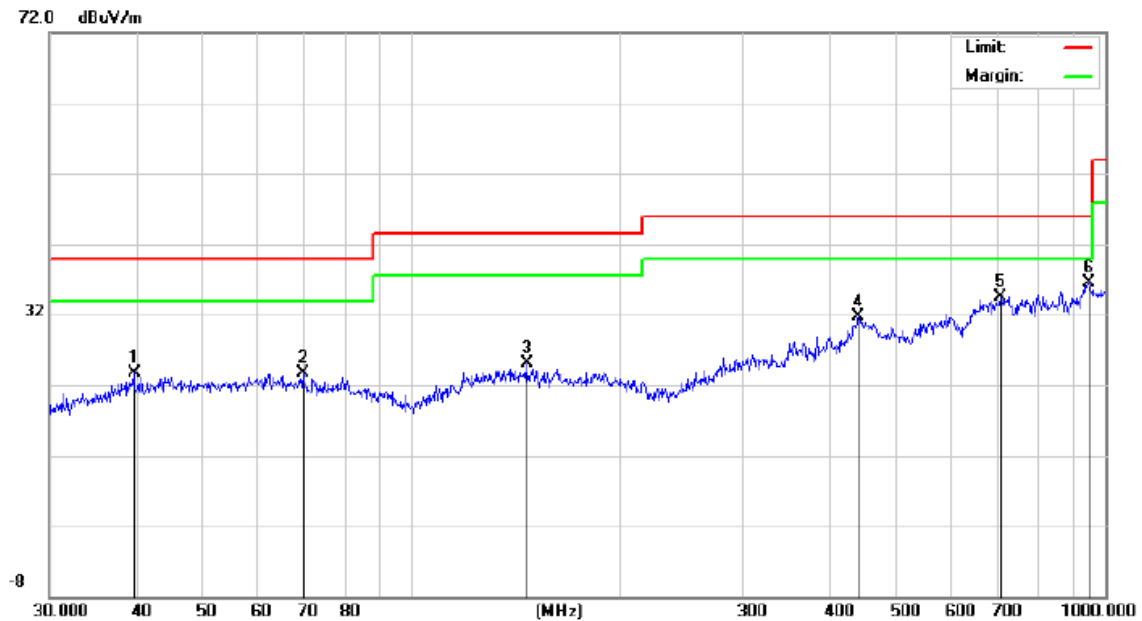
| | | | |
|-------------|-------------------|-------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 24.0°C | Relative Humidity | 60.6% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Polarization | Horizontal |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1 | | 161.4742 | 11.49 | 12.20 | 23.69 | 43.50 | -19.81 | peak |
| 2 | | 300.3672 | 12.04 | 16.50 | 28.54 | 46.00 | -17.46 | peak |
| 3 | | 349.2500 | 14.58 | 17.33 | 31.91 | 46.00 | -14.09 | peak |
| 4 | | 455.9058 | 8.41 | 24.54 | 32.95 | 46.00 | -13.05 | peak |
| 5 | | 612.0642 | 6.46 | 25.16 | 31.62 | 46.00 | -14.38 | peak |
| 6 | * | 896.9965 | 6.48 | 31.42 | 37.90 | 46.00 | -8.10 | peak |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

| | | | |
|-------------|-------------------|-------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 24.0°C | Relative Humidity | 60.6% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Polarization | Vertical |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1 | | 39.7146 | 6.92 | 16.81 | 23.73 | 40.00 | -16.27 | peak |
| 2 | | 69.6004 | 6.65 | 17.00 | 23.65 | 40.00 | -16.35 | peak |
| 3 | | 146.3735 | 6.87 | 18.20 | 25.07 | 43.50 | -18.43 | peak |
| 4 | | 440.1963 | 5.63 | 26.09 | 31.72 | 46.00 | -14.28 | peak |
| 5 | | 706.6998 | 6.23 | 28.33 | 34.56 | 46.00 | -11.44 | peak |
| 6 | * | 948.7609 | 5.94 | 30.65 | 36.59 | 46.00 | -9.41 | peak |

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Over= Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

RADIATED EMISSION ABOVE 1GHZ

| | | | |
|--------------------|-------------------|--------------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 24.0°C | Relative Humidity | 60.6% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Polarization | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4802 | 48.98 | 3.76 | 52.74 | 74.00 | -21.26 | peak |
| 4802 | 43.41 | 3.76 | 47.17 | 54.00 | -6.83 | AVG |
| 7203 | 42.62 | 8.17 | 50.79 | 74.00 | -23.21 | peak |
| 7203 | 38.52 | 8.17 | 46.69 | 54.00 | -7.31 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|--------------------|-------------------|--------------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 23.0° C | Relative Humidity | 51.8% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Polarization | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4802 | 47.36 | 3.76 | 51.12 | 74.00 | -22.88 | peak |
| 4802 | 43.59 | 3.76 | 47.35 | 54.00 | -6.65 | AVG |
| 7203 | 42.41 | 8.17 | 50.58 | 74.00 | -23.42 | peak |
| 7203 | 37.28 | 8.17 | 45.45 | 54.00 | -8.55 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

| | | | |
|--------------------|-------------------|--------------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 24.0°C | Relative Humidity | 60.6% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Polarization | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4842 | 47.74 | 3.78 | 51.52 | 74.00 | -22.48 | peak |
| 4842 | 43.48 | 3.78 | 47.26 | 54.00 | -6.74 | AVG |
| 7263 | 43.25 | 8.23 | 51.48 | 74.00 | -22.52 | peak |
| 7263 | 39.36 | 8.23 | 47.59 | 54.00 | -6.41 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|--------------------|-------------------|--------------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 24.0°C | Relative Humidity | 60.6% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Polarization | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4842 | 48.69 | 3.78 | 52.47 | 74.00 | -21.53 | peak |
| 4842 | 42.85 | 3.78 | 46.63 | 54.00 | -7.37 | AVG |
| 7263 | 44.45 | 8.23 | 52.68 | 74.00 | -21.32 | peak |
| 7263 | 39.63 | 8.23 | 47.86 | 54.00 | -6.14 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

| | | | |
|--------------------|-------------------|--------------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 24.0°C | Relative Humidity | 60.6% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Polarization | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4882 | 47.52 | 3.81 | 51.33 | 74.00 | -22.67 | peak |
| 4882 | 44.81 | 3.81 | 48.62 | 54.00 | -5.38 | AVG |
| 7323 | 42.49 | 8.27 | 50.76 | 74.00 | -23.24 | peak |
| 7323 | 38.63 | 8.27 | 46.90 | 54.00 | -7.10 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| | | | |
|--------------------|-------------------|--------------------------|----------------|
| EUT | Bluetooth Headset | Model Name | ML80 |
| Temperature | 24.0°C | Relative Humidity | 60.6% |
| Pressure | 985kPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Polarization | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4882 | 48.57 | 3.81 | 52.38 | 74.00 | -21.62 | peak |
| 4882 | 43.42 | 3.81 | 47.23 | 54.00 | -6.77 | AVG |
| 7323 | 44.63 | 8.27 | 52.90 | 74.00 | -21.10 | peak |
| 7323 | 40.58 | 8.27 | 48.85 | 54.00 | -5.15 | AVG |
| Remark: | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

RESULT: PASS

Note: The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00798180404AP01A

APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC00798180404AP02A

-----END OF REPORT-----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>