



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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VERIFICATION OF COMPLIANCE

Verification No.: SHEM210100009701TX
Applicant: Wuyi Boe Sports Equipment Co.,Ltd
Address of Applicant: Baiyang Street, Baihuashan Industrial Zone, Wuyi, Jinhua City, Zhejiang, China
Product Description: electric scooter
Model No.: BE-18-1, BE-18-3, BE-18-4, BE-18-5, BE-18-6, BE-18-8
Sufficient samples of the product have been tested and found to be in conformity with
Test Standards: EN 61000-6-3:2007 +A1:2011
EN 61000-6-1:2007
As shown in the
Test Report Number(s): SHEM210100009701

This verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards under Directive 2014/30/EU. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Parham Zhan
E&E Section Manager



Date: 2021-01-18

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Report No.: SHEM210100009701

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1 Cover Page

TEST REPORT

Application No.:	SHEM210100009701TX
Applicant:	Wuyi Boe Sports Equipment Co., Ltd
Equipment under Test (EUT) NOTE: The following sample(s) was/were submitted and identified by the client as.	
Product Name:	Electric Scooter
Model No.:	BE-18-1
Add Model No.:	BE-18-3, BE-18-4, BE-18-5, BE-18-6, BE-18-8
Standards:	EN 61000-6-3:2007+A1:2011 EN 61000-6-1:2007
Date of Receipt:	December 20, 2020
Date of Test:	January 04, 2021 to January 12, 2021
Date of Issue:	January 18, 2021
Test Result:	Pass*

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.



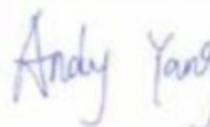


The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		January 18, 2021		Original

Authorized for issue by:			
Engineer	Andy Yang <hr/> Print Name	 <hr/>	
Clerk	Amy Wang <hr/> Print Name	 <hr/>	
Reviewer	Keny Xu <hr/> Print Name	 <hr/>	

3 Test Summary

ELECTROMAGNETIC INTERFERENCE (EMI)

Test	Test Requirement	Test Method	Result
Radiated Emission, 30MHz to 1GHz	EN 61000-6-3:2007+A1:2011	CISPR 16-2-3: 2010+A1:2010+A2:2014	PASS*

Electromagnetic Susceptibility (EMS)

Test	Test Requirement	Test Method	Result
ESD	EN 61000-6-1:2007	EN 61000-4-2:2009	PASS
Radiated Immunity	EN 61000-6-1:2007	EN 61000-4-3:2006 +A1:2008+A2:2010	PASS
Power frequency magnetic fields	EN 61000-6-1:2007	EN 61000-4-8:2010	N/A**

Remark:

N/A : Not applicable

Note1:* If the highest frequency of the internal sources of the EUT is less than 108MHz, the measurement shall only be made up to 1GHz.

Note2:**The Power-frequency magnetic field test will not apply to the equipment containing no components susceptible to magnetic fields, such as Hall elements or magnetic field sensors, according to EN 61000-6-1.

Note: There are 6 models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model BE-18-1 was tested since their difference is the appearance

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5 General Information

5.1 Client Information

Applicant:	Wuyi Boe Sports Equipment Co.,Ltd
Address of Applicant:	Baiyang Street, Baihuashan Industrial Zone, Wuyi, Jinhua City, Zhejiang, China
Manufacturer:	Wuyi Boe Sports Equipment Co.,Ltd
Address of Manufacturer:	Baiyang Street, Baihuashan Industrial Zone, Wuyi, Jinhua City, Zhejiang, China
Factory:	Wuyi Boe Sports Equipment Co.,Ltd
Address of Factory:	Baiyang Street, Baihuashan Industrial Zone, Wuyi, Jinhua City, Zhejiang, China

5.2 Details of E.U.T.

Power Supply:	DC 36V
Test voltage:	DC 36V
Cable Type:	N/A

5.3 E.U.T Operation Mode

Functions/Modes:	Running mode
Running mode	Keep EUT running continuously

5.4 E.U.T Operation Environment

Temperature Range:	20-25°C
Humidity Range:	30-60% RH
Atmospheric Pressure Range:	100-105kPa

5.5 Description of Support Units

The EUT has been tested independently

5.6 Deviation from Standards

All Immunity tests to EN 61000-6-1:2007 were performed in accordance with EN 61000-4-x and not IEC 61000-4-x. (x=2,3).

5.7 Abnormalities from Standard Conditions

None.

5.8 Monitoring of EUT for All Immunity Test

Audio:	None.
Visual:	Working status of the EUT.

5.9 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666

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No tests were sub-contracted.

5.10 Test Facility

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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. Date of expiry: 2022-06-30.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2022-09-02.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2022-06-03.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868,C-4336,T-2221,G-830 respectively. Date of Expiry: 2022-11-02.

5.11 Measurement Uncertainty

According to CISPR 16-4-2.

Test Item	Frequency Range	Measurement Uncertainty	U_{CISPR}
Conducted Emission at mains port using AMN	9kHz-150kHz	3.2 dB	3.8 dB
Conducted Emission at mains port using AMN	150kHz-30MHz	3.0 dB	3.4 dB
Conducted Emission at mains port using VP	9kHz-30MHz	1.9 dB	3.9 dB
Conducted Emission at telecommunication port using AAN	150kHz-30MHz	2.4 dB	5.0 dB
Radiated Emission	30MHz-1000MHz	4.4 dB	6.3 dB
Radiated Emission	1GHz-18GHz	4.6 dB	5.2 dB (1GHz-6GHz)
			5.5 dB (6GHz-18GHz)
Disturbance Power	30MHz-300MHz	3.5 dB	4.5 dB
Remark: AMN – Artificial Mains Network VP – Voltage Probe ANN – Asymmetric Artificial Network			

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

6 Equipment list

Radiated Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1.	EMI test receive	Rohde & Schwarz	ESR7	101391	2020-12-26	2021-12-25
2	CONTROLLER	INNCO	CO200	474	/	/
3	Broadband UHF-VHF ANTENNA	SCHWARZBE CK	VULB916 8	9168-313	2020-12-28	2021-12-27
4	Double ridged broadband horn ANTENNA	SCHWARZBE CK	BBHA912 0D	9120D-67 9	2020-12-28	2021-12-27
5	Amplifier	SCHWARZBE CK	SCU-F011 8-G40-BZ 4-CSS(F)	10001	2020-12-26	2021-12-25
6	Low noise amplifier	TESEQ	LNA6900	71033	2020-12-26	2021-12-25

Electrostatic Discharge Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Electrostatic Discharge Simulator	TESEQ	NSG 437	468	2020-12-26	2021-12-25

Radiated Immunity

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Single Generator	Rohde & Schwarz	SMJ100A	101394	2020-12-26	2021-12-25
2	Calibrated Stacked Logarithmic-Periodic Test-Antenna	SCHWARIBFC K	STLP 9128D	9128 D 055	/	/
3	Stacked DoubleLog-Per. Antenna	SCHWARIBFC K	STLP 9149	9149-187	/	/
4	Power Amplifiers	MILMEGA	80RF1000 -250	1053058	/	/
5	Power Amplifiers	MILMEGA	AS0840-5 5-55	1053059	/	/
6	Power Meter	Rohde & Schwarz	NRP	101641	2020-12-26	2021-12-25
7	Electromagnetic Field Probe	ETS-Lindgren	HI-6113	00114591	2020-07-24	2021-07-23
8	Power sensor	Rohde & Schwarz	NRP-Z91	100647	2020-12-26	2021-12-25
9	Power sensor	Rohde & Schwarz	NRP-Z22	101096	2020-07-18	2021-07-17

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Digital pressure meter	YONGZHI	DYM3-01	101012	2020-07-15	2021-07-14
2	Temperature& humidity recorder	ShangHai weather meter work	ZJ 1-2B	84320600 803136, F3040201 53,20101 201FS10 0A6K,201 106117	2020-07-15	2021-07-14
3	Digital Multimeter	FLUKE	17B	19720439	2020-12-26	2021-12-25
4	Autoformer regulator	Guangzhou bao de	TDGC2-5K VA-	/	/	/
5	CLAMP METER	FLUKE	316	250303097 1	2020-12-26	2021-12-25

7 Emission Test Results

7.1 Radiated Emissions, 30MHz to 1GHz

Measurement Distance: 3m

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

Limit: For 3m

Frequency range (MHz)	Quasi-peak limits (dB (μV/m))
30 to 230	40
230 to 1000	47
At transitional frequencies the lower limit applies.	

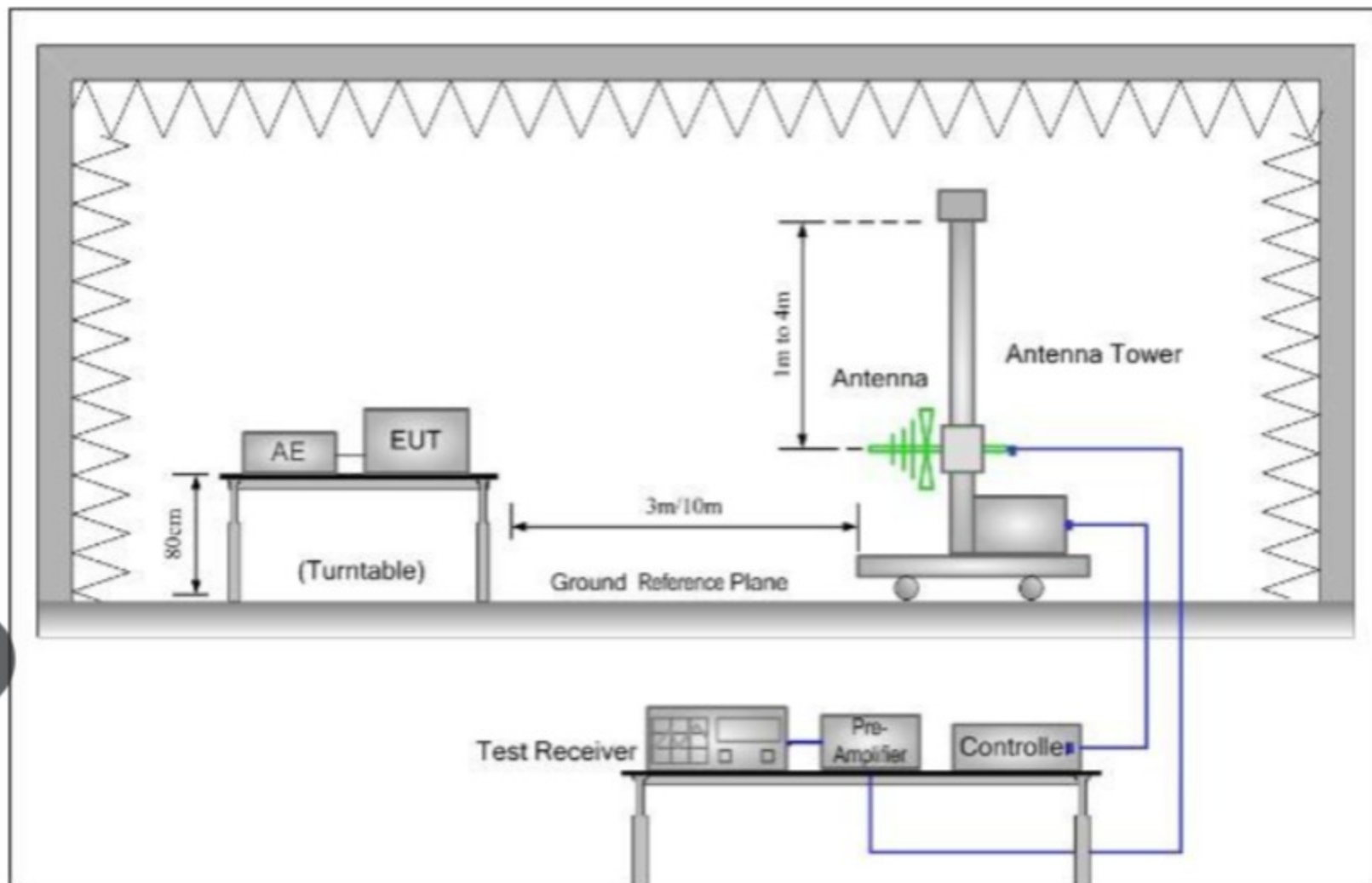
7.1.1 E.U.T. Operation

Test mode: Running mode

Pre-scan was performed with peak detected on all ports, Quasi-peak measurements was performed at the frequencies at which maximum peak emission level were detected.

Please see the attached Quasi-peak test results.

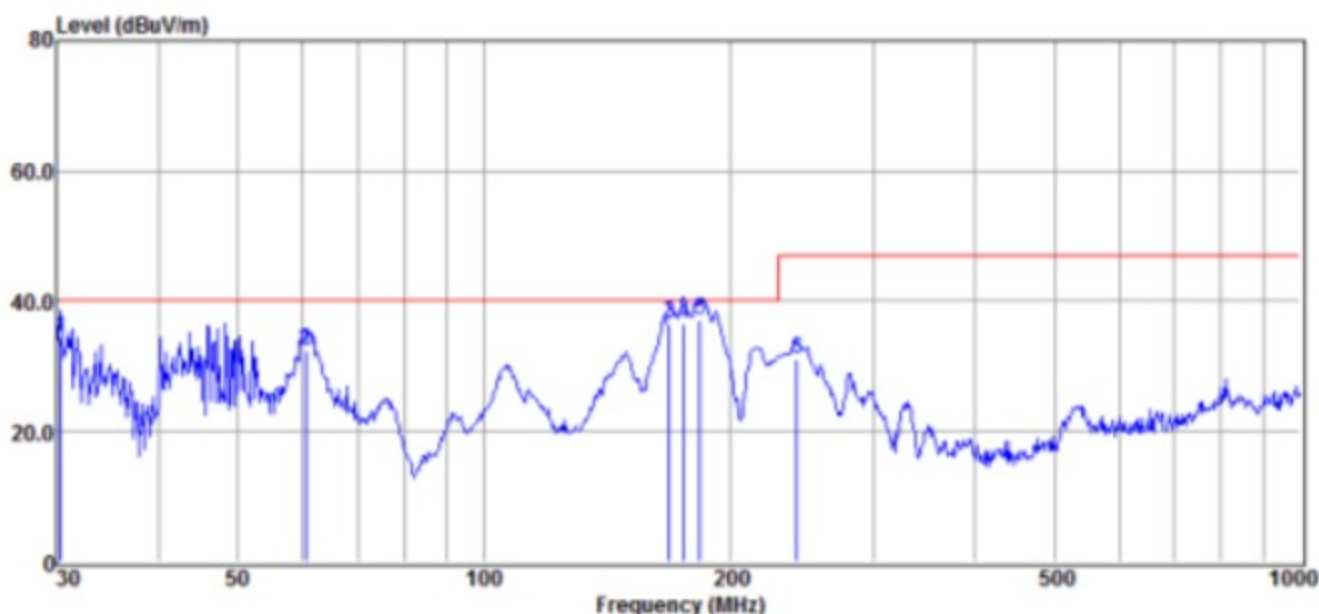
7.1.2 Test Setup and Procedure



1. The radiated emissions test was conducted in a semi-anechoic chamber.
2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum signature data plots of the EUT.
5. The frequencies of maximum emission were determined in the final radiated emissions measurement, the physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

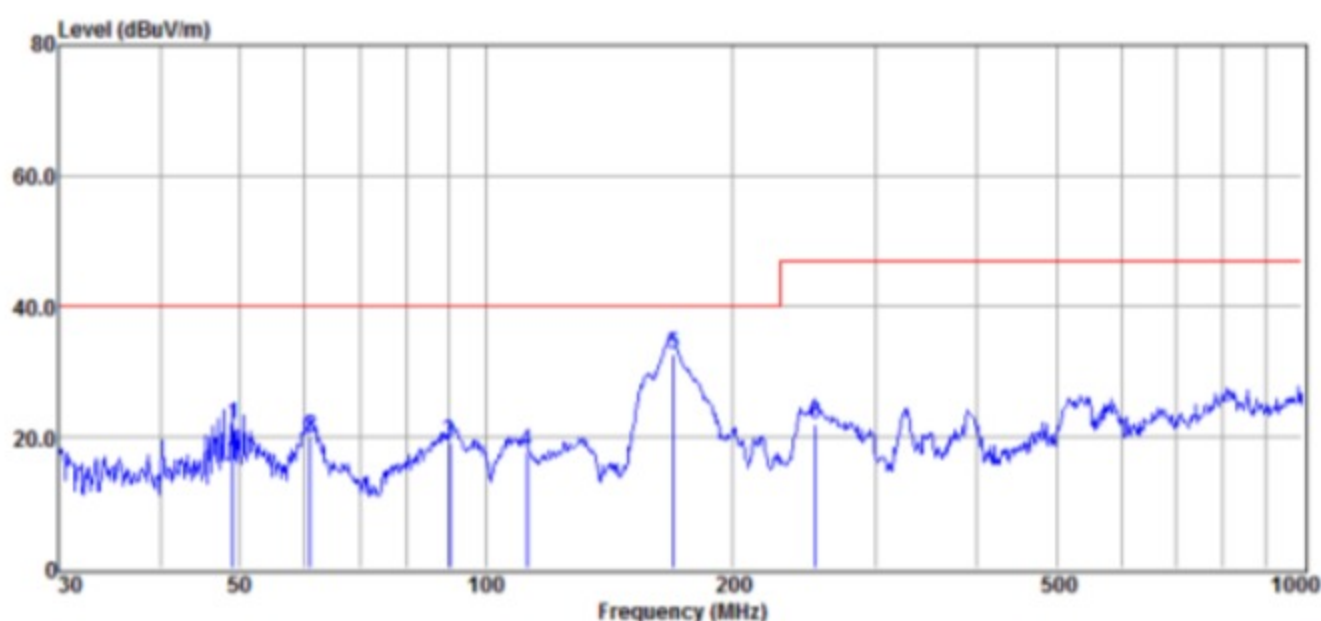
7.1.3 Measurement Data

Vertical:



Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	30.32	46.01	12.53	24.60	0.54	34.48	40.00	-5.52	QP
2	60.49	44.12	12.16	24.60	0.79	32.47	40.00	-7.53	QP
3	169.01	47.44	12.19	24.50	1.45	36.58	40.00	-3.42	QP
4	175.65	48.12	11.47	24.50	1.48	36.57	40.00	-3.43	QP
5	183.84	49.14	10.98	24.50	1.51	37.13	40.00	-2.87	QP
6	241.68	42.52	11.27	24.50	1.79	31.08	47.00	-15.92	QP

Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	49.01	31.95	13.85	24.60	0.69	21.89	40.00	-18.11	QP
2	60.92	31.69	12.21	24.60	0.79	20.09	40.00	-19.91	QP
3	90.22	33.94	8.81	24.60	1.06	19.21	40.00	-20.79	QP
4	112.13	30.23	11.09	24.60	1.16	17.88	40.00	-22.12	QP
5	169.60	43.59	12.20	24.50	1.45	32.74	40.00	-7.26	QP
6	252.95	32.37	12.13	24.48	1.84	21.86	47.00	-25.14	QP

Level = Read Level + Antenna Factor + Cable Loss – Preamplifier Factor.

8 Immunity Test Results

8.1 Performance Criteria Description in Clause 4 of EN 61000-6-1

Criterion A:

The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

Criterion B:

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

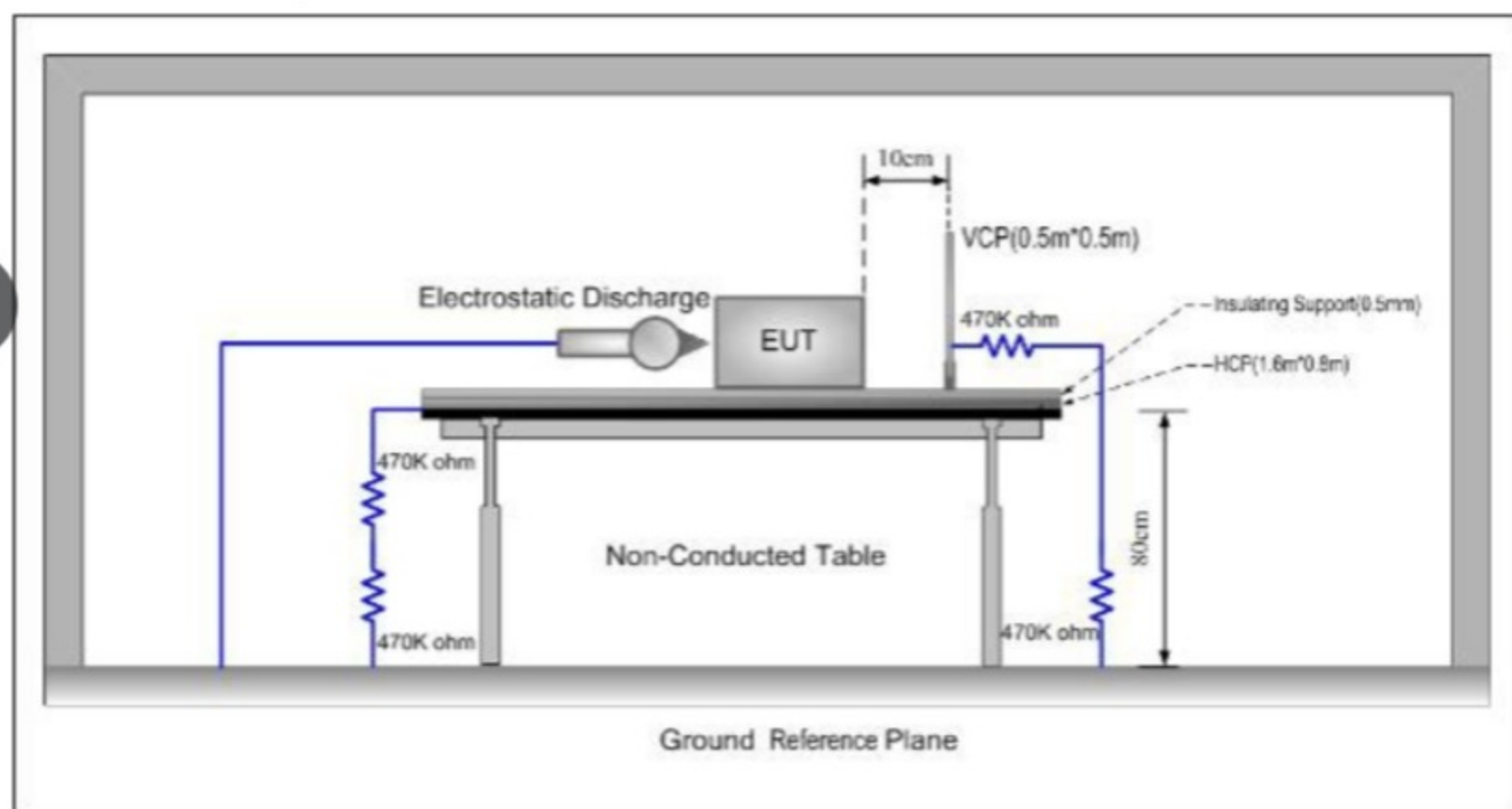
Criterion C:

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8.2 Electrostatic Discharge (ESD)

Discharge Voltage:	Air Discharge:	8 kV
	Contact Discharge:	4 kV
	VCP / HCP:	4 kV
Polarity:	Positive & Negative	
Number of Discharge:	Minimum 10 times at each test point	
Discharge Mode:	Single Discharge	
Discharge Period:	1 second minimum	

8.2.1 Test Setup and Procedure



1. Contact discharge was applied only to conductive surfaces of the EUT. Air discharge was applied only to non-conducted surfaces of the EUT.
2. The EUT was put on a 0.8m high wooden table for table-top equipment or 0.1m high for floor standing equipment standing on the ground reference plane (GRP).
3. A horizontal coupling plane (HCP) 1.6m by 0.8m in size was placed on the table, and the EUT with its cables were isolated from the HCP by an insulating support thick than 0.5mm. The VCP 0.5m by 0.5m in size while HCP were constructed from the same material type and thinness as that of the GRP, and connected to the GRP via a 470kΩ resistor at each end. The distance between EUT and any of the other metallic surface excepted the GRP, HCP and VCP was greater than 0.8m.
4. During the contact discharges, the tip of the discharge electrode was touched the EUT before the discharge switch is operated. During the air discharges, the round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT.
5. After each discharge, the ESD generator was removed from the EUT, the generator is then retriggered for

a new single discharge. For ungrounded product, a discharge cable with two resistances were used after each discharge to remove remnant electrostatic voltage. 10 times of each polarity single discharge were applied to HCP and VCP.

8.2.2 Test Results

Direct Application Test Results

- Observations: Test Point: 1. All insulated enclosure & seams.
2. All accessible metal parts of the enclosure with discharge resistor used.

Direct Application			Test Results		
Discharge Level (kV)	Polarity (+/-)	Test Point	Test Mode	Contact Discharge	Air Discharge
8	+/-	1	Running mode	N/A	A
4	+/-	2	Running mode	A	N/A

Indirect Application Test Results

- Observations: Test Point: 1. All sides.

Indirect Application			Test Results		
Discharge Level (kV)	Polarity (+/-)	Test Point	Test Mode	Horizontal Coupling	Vertical Coupling
4	+/-	1	Running mode	N/A	A

Results: Pass

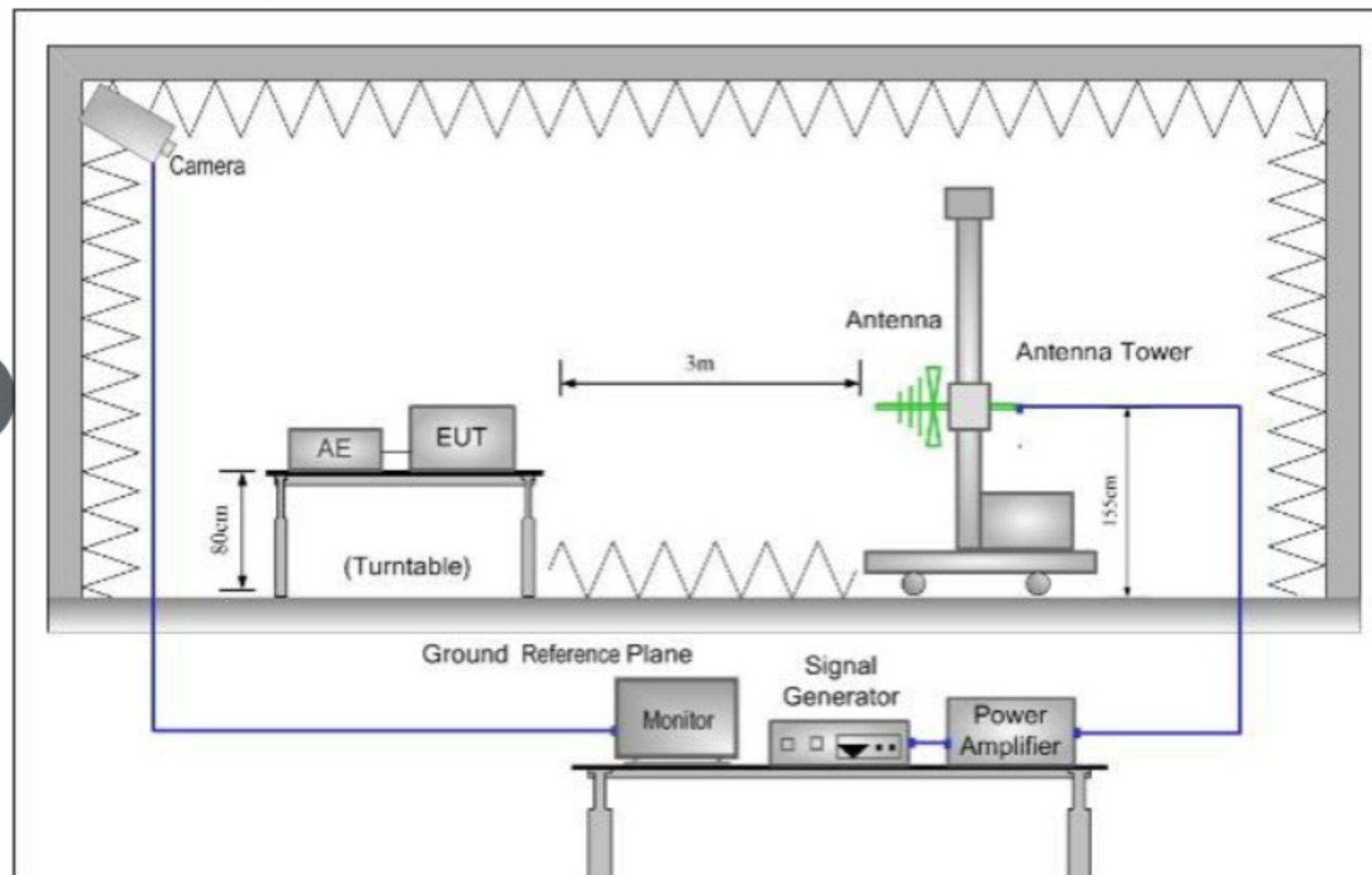
Test phenomenon description for the EUT:

1. The EUT working is normal, Before the conditioning.
 2. No any change in status of the EUT was observed, during the conditioning.
 3. No degradation in the performance of the EUT was observed, after the conditioning.
- N/A: Not Applicable (not required by Standard).

8.3 Radiated Immunity

Frequency Range:	80MHz to 1GHz, 1.4GHz to 2.0GHz, 2.0GHz to 2.7GHz
Antenna Polarization:	Horizontal & Vertical
Test level:	3 V/m & 3V/m & 1 V/m
Modulation:	80% 1kHz Amplitude Modulated

8.3.1 Test Setup and Procedure



1. For table-top equipment, the EUT was placed in the chamber on a non-conductive table 0.8m high. For arrangement of floor-standing equipment, the EUT was mounted on a non-conductive support 0.1m above the supporting plane. For human body-mounted equipment, the EUT may be tested in the same manner as table top items.
2. If possible, a minimum of 1 m of cable is exposed to the electromagnetic field. Excess length of cables interconnecting units of the EUT shall be bundled low-inductively in the approximate center of the cable to form a bundle 30 cm to 40 cm in length.
3. The EUT was initially placed with one face coincident with the calibration plane. The EUT face being illuminated was contained within the UFA (Uniform Field Area).
4. The frequency ranges to be considered were swept with the signal modulated and pausing to adjust the RF signal level or to switch oscillators and antennas as necessary. Where the frequency range was swept incrementally, the step size was not exceeded 1% of the preceding frequency value.
5. The dwell time of the amplitude modulated carrier at each frequency was not be less than the time necessary for the EUT to be exercised and to respond, and was not less than 0.5 s.

6. The test normally was performed with the generating antenna facing each side of the EUT.
7. The polarization of the field generated by each antenna necessitates testing each selected side twice, once with the antenna positioned vertically and again with the antenna positioned horizontally.
8. The EUT was performed in a configuration to actual installation conditions, a video camera and/or an audio monitor were used to monitor the performance of the EUT.

8.3.2 Test Results:

Frequency	Level	Modulation	Dwell Time	Test Mode	Antenna Polarization	EUT Face	Result / Observations
80MHz-1.0GHz 1.4GHz-2.0GHz	3 V/m	1 kHz, 80% Amp. Mod, 1 % increment	3s	Running mode	V	Front	A
					H		A
					V	Rear	A
					H		A
2.0GHz -2.7GHz	1 V/m				V	Left	A
					H		A
					V	Right	A
					H		A
					V	Top	N/A
					H		N/A
					V	Bottom	N/A
					H		N/A

Remarks:

Front: the front of the EUT faces to transmitting antenna (refer to Radiated Immunity test setup photo)

Test phenomenon description for the EUT:

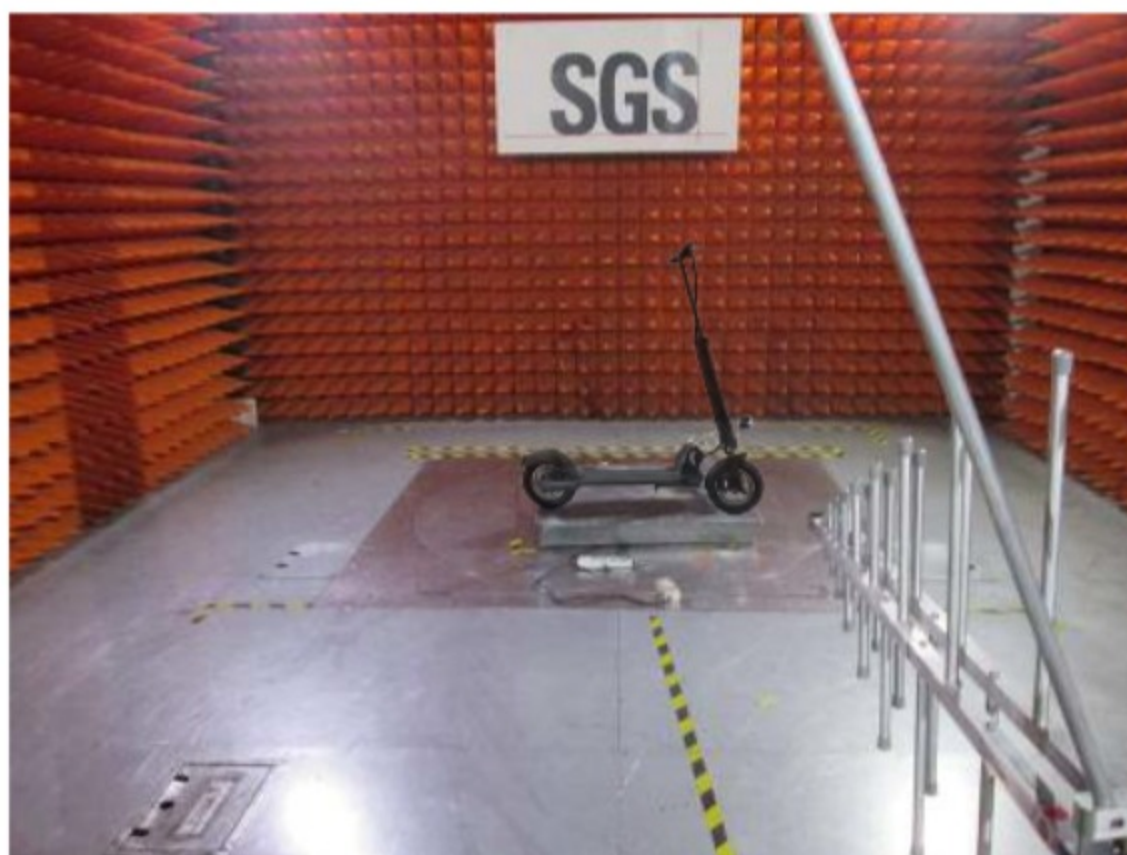
1. The EUT working is normal, Before the conditioning.
2. No any change in status of the EUT was observed, during the conditioning.
3. No degradation in the performance of the EUT was observed, after the conditioning.

N/A: Not applicable.

The EUT does meet the Radiated Immunity requirements of Standard.

9 Photographs

9.1 Radiated Emission Test Setup



9.2 ESD Test Setup





9.3 Radiated Immunity Test Setup



10 EUT Constructional Details

10.1 Exterior of EUT



10.2 Interior of EUT



--End of Report--

Certificate Number: B-E190925729

EMC Directive 2014/30/EU

Beide
Compliance Laboratory

Holder: Wuyi Boe Sports Equipment Co.,Ltd

Address.....: Baiyang Street, Baihuashan Industrial Zone, Wuyi, Jinhua City,
Zhejiang, China

Manufacturer: Same As Holder

Product: Electric Scooter

Model No.....: BE-18-1

Technical Data.....: Adapter Input:100-240V~,50/60Hz,2.5A
Output:DC 42V,2A,250W
Battery:DC 36V,10.4AH

The submitted products have been tested by us with the following standard(s) and found to be in compliance with the listed European Directives.

EN 61000-6-3:2007+A1:2011+AC:2012;
EN IEC 61000-6-1:2019;
EN 61000-3-2:2014;
EN 61000-3-3:2013

The test results apply only to the particular sample tested and to the specific tests carried out. Technical Report and documentation are at the Holder's disposal.

This certificate applies specifically to the sample investigated in our test reference number only. The CE markings as shown below can be affixed on the product after preparation of necessary technical documentation. Other relevant Directives have to be observed.



Certification Manager
Date: Sep.25,2019



Company No.07113834



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