

Report No.: SZCR210502085101

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## TEST REPORT

Application No.: SZCR2105020851AT

Applicant: MEKBAO PLASTIC ELECTRONIC INDUSTRIAL CO., LTD

Address of Applicant: JIAOXI INDUSTRY AREAS LIANXIA CHENGHAI SHANTOU CITY, GD

**CHINA** 

Manufacturer: MEKBAO PLASTIC ELECTRONIC INDUSTRIAL CO., LTD

Address of Manufacturer: JIAOXI INDUSTRY AREAS LIANXIA CHENGHAI SHANTOU CITY, GD

**CHINA** 

**Equipment Under Test (EUT):** 

**EUT Name:** Remote control car series

Model No.: 5588-602

**FCC ID**: 2AGUM-5588012

Standard(s): 47 CFR Part 15, Subpart C 15.227

**Date of Receipt:** 2021-05-06

**Date of Test:** 2021-05-09 to 2021-05-26

**Date of Issue:** 2021-05-28

Test Result: Pass\*

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier Remai						
01		2021-05-28		Original			

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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## **Test Summary**

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
Antenna Requirement	47 CFR Part 15, Subpart C 15.227	N/A	47 CFR Part 15, Subpart C 15.203	Pass			

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass			
Field Strength of the Fundamental Signal (15.227(a))	47 CFR Part 15, Subpart C 15.227	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.227(a)	Pass			
Radiated Emissions		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.227(b) & C 15.209	Pass			



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### 4 General Information

#### 4.1 Details of E.U.T.

Power supply:	3V DC(1.5V x 2 "AA" Size Batteries) for TX	
Operation Frequency	27.145MHz	
Sample Type:	Portable production	
Antenna Type:	Integral	

4.2 Description of Support Units

<u> </u>	pport ormic						
Description	Manufacturer	Model No.	Serial No.				
The EUT has been tested as an independent unit.							

#### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Occupied Bandwidth	± 3%
2	RF Radiated power	± 4.5dB (below 1GHz)
3	Radiated Spurious emission test	± 4.5dB (Below 1GHz)
4	Temperature test	± 1°C
5	Humidity test	± 3%
6	Supply voltages	± 1.5%
7	Time	± 3%



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#### 4.4 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, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

#### 4.5 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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • 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.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## **Equipment List**

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Field Strength of the Fundamental Signal (15.227(a))						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01	
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23	
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	



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Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM00101	2020-07-19	2023-07-18
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14	
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29	



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## 6 Radio Spectrum Technical Requirement

#### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 6.1.2 Conclusion

**EUT Antenna:** 

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to External photos





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#### **Radio Spectrum Matter Test Results** 7

#### 20dB Bandwidth

47 CFR Part 15, Subpart C 15.227 **Test Requirement** Test Method: ANSI C63.10 (2013) Section 6.9

#### 7.1.1 E.U.T. Operation

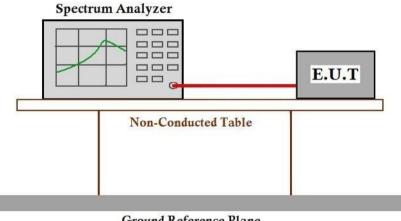
**Operating Environment:** 

Temperature: 26.4 °C Humidity: 32.7 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

#### 7.1.3 Test Setup Diagram



Ground Reference Plane

#### 7.1.4 Measurement Procedure and Data



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Test Mode: OBW 27.145MHz





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#### 7.2 Field Strength of the Fundamental Signal (15.227(a))

47 CFR Part 15, Subpart C 15.227(a) Test Requirement Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit: ≤ 10000 microvolts/meter at 3 meters, the emission limit is based on

measurement instrumentation employing an average Detector:. The

provisions in § 15.35 for limiting peak emissions apply.

#### 7.2.1 E.U.T. Operation

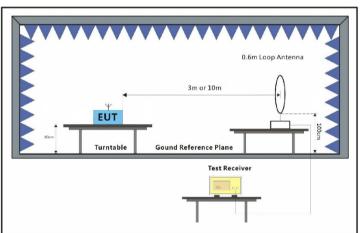
Operating Environment:

Temperature: 24.6 °C Atmospheric Pressure: 1010 mbar Humidity: 55.3 % RH

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

#### 7.2.3 Test Setup Diagram





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#### 7.2.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1Ghz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



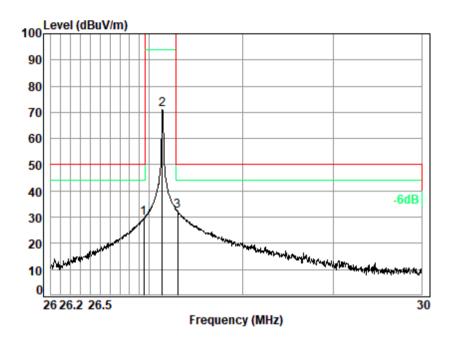


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 20851AT

Test mode: 00

	Enoa			Preamp Factor					Pomonk	
							LINE		Nelliark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	26.95	0.60	24.05	27.75	32.73	29.63	50.00	-20.37	Peak	
2	27.14	0.60	23.98	27.75	74.12	70.95	100.00	-29.05	Peak	
3 p	27.30	0.60	23.92	27.75	35.51	32,28	50.00	-17.72	Peak	



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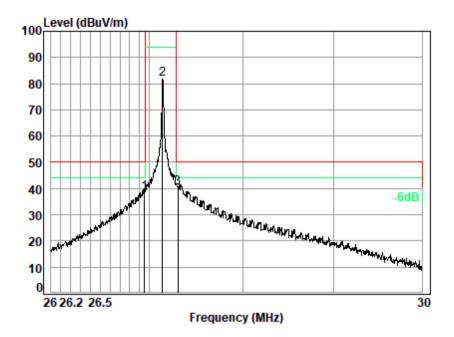


## SGS-CSTC Standards Technical Services Co., Ltd.

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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

: 20851AT Job No.

Test mode: 00

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 p		0.60	23.98	27.75 27.75 27.75	84.87	81.70	100.00	-18.30	Peak

#### Remark:

As shown in this section, for Field Strength of the Fundamental Signal limits are based on average limits. However, the peak field strength of the Fundamental Signal was not exceed the average limits specified under any condition of modulation. So, only peak field strength data of the Fundamental Signal was shown in the report.



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#### 7.3 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.227(b) & C 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz and 110-490kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)			
30-88	100	3			
88-216	150	3			
216-960	200	3			
Above 960	500	3			

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for above 1000MHz. Radiated emission limits above 1000MHz is based on measurements employing an average detector.

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 55.2 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Mode Final test Code Description		Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.



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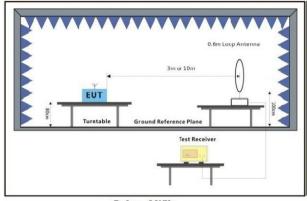
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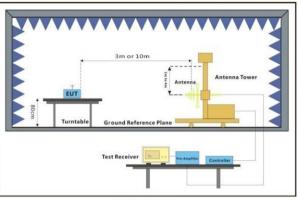


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#### 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.3.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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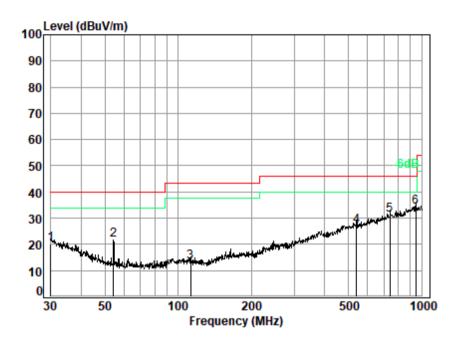
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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 20851AT

Test mode: 00

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.00	0.60	23.00	27.74	24.30	20.16	40.00	-19.84	QP
2	54.26	0.80	13.42	27.67	35.03	21.58	40.00	-18.42	QP
3	112.52	1.24	13.52	27.53	26.14	13.37	43.50	-30.13	QP
4	541.37	2.64	25.01	27.94	27.38	27.09	46.00	-18.91	QP
5	742.26	3.03	27.99	27.83	27.99	31.18	46.00	-14.82	QP
6 a	948.76	3.65	29.33	26.91	28.03	34.10	46.00	-11.90	OP



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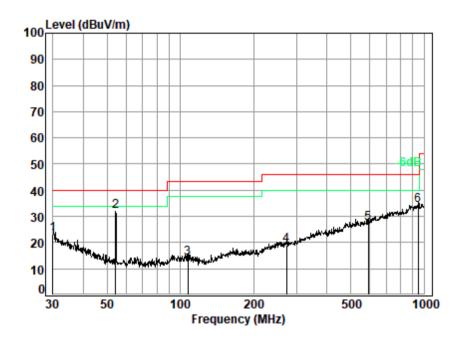
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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : 20851AT

Test mode: 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.00	0.60	23.00	27.74	27.40	23.26	40.00	-16.74	QP
2 q	54.26	0.80	13.42	27.67	45.26	31.81	40.00	-8.19	QP
3	107.13	1.22	13.78	27.56	26.78	14.22	43.50	-29.28	QP
4	272.28	1.78	18.55	26.94	25.80	19.19	46.00	-26.81	QP
5	590.97	2.69	25.62	28.10	27.13	27.34	46.00	-18.66	QP
6	948.76	3.65	29.33	26.91	28.01	34.08	46.00	-11.92	QP

#### Remark:

The disturbance below 30MHz was very low and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2105020851AT

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2105020851AT

- End of the Report -

