

FCC Test Report

Report No.: AGC10862210402FE03

FCC ID 2AZJIMRT-06

APPLICATION PURPOSE Original Equipment

Remote PRODUCT DESIGNATION

DongWon **BRAND NAME**

AC127-01, AC127-06, AC127-01D, AC127-06D **MODEL NAME**

DongWon Industrial USA LLC **APPLICANT**

Apr. 20, 2021 **DATE OF ISSUE**

STANDARD(S)

FCC Part 15 Subpart C Section 15.231 **TEST PROCEDURE(S)**

REPORT VERSION V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd





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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 20, 2021	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

11 121111 107111011 01			
Applicant	DongWon Industrial USA LLC		
Address	80 Industrial Rd., Suite D, Lodi, NJ 07644, USA		
Manufacturer	DongWon Industrial USA LLC		
Address	80 Industrial Rd., Suite D, Lodi, NJ 07644, USA		
Factory	DongWon Industrial USA LLC		
Address	80 Industrial Rd., Suite D, Lodi, NJ 07644, USA		
Product Designation	Remote		
Brand Name	DongWon		
Test Model	AC127-01		
Series Model	AC127-06, AC127-01D, AC127-06D		
Difference description	All the series models are the same as the test model except for the model names, the number of Indicator light and keypad.		
Date of test	Apr. 07, 2021 to Apr. 20, 2021		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BR/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.231. The test results of this report relate only to the tested sample identified in this report.

Prepared By	Sky dong	
	Sky Dong (Project Engineer)	Apr. 20, 2021
Reviewed By	Max 2 hang	No. Yo
,c	Max Zhang (Reviewer)	Apr. 20, 2021
Approved By	Formerlies	
CC C	Forrest Lei (Authorized Officer)	Apr. 20, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

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Operation Frequency	433.92MHz			
Field Strength(3m)	80.48dBuV/m(Peak)@3m			
Modulation	ASK			
Number of channels	1 60 6			
Hardware Version	V3.6			
Software Version	200409B			
Antenna Designation	PCB antenna			
Antenna Gain	0.1dBi			
Power Supply	DC 3V by battery			

Note: The normal allowable frequency error of the product is ±15KHz.

2.2. TEST METHODOLOGY

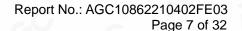
Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.3. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended 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 Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
_® 1	Transmitting mode(Manual operated)	

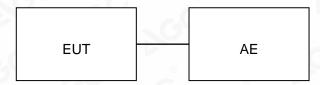
Note:

- 1. All the test modes can be supply by new battery, and only the data of the worst case recorded in the test report.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For battery operated equipment, the equipment tests are performed using a new battery.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Remote	DongWon	AC127-01	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	RESULT	
§15.203	Antenna Requirement	Compliant
§15.231(a)(1)	Manual operated	Compliant
ANSI C63.10 Clause 7.5	Average Factor	N/A
§15.231(b) & §15.209	Field Strength of Fundamental and Spurious Emission	Compliant
§15.231(c)	Bandwidth	Compliant
15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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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		

7. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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8. ANTENNA REQUIREMENT

According to §15.203, 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 EUT has PCB antenna, which accordance to the above sections, is considered sufficient to comply with the provisions of these sections. Please see EUT photo for details.



The requirements of section 15.203 are FULFILLED.

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9. PROVISION FOR MOMENTARY OPERATION

9.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

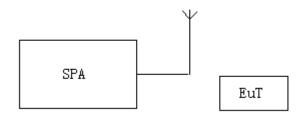
RBW=1MHz, VBW=3MHz

Span: 0Hz

Sweep time: 10S

- 2. Set the EUT to transmit activated automatically. Use the "View" function of SPA to find the transmission time of being released.
- 3. Record the data and Reported.

9.2 TEST SETUP



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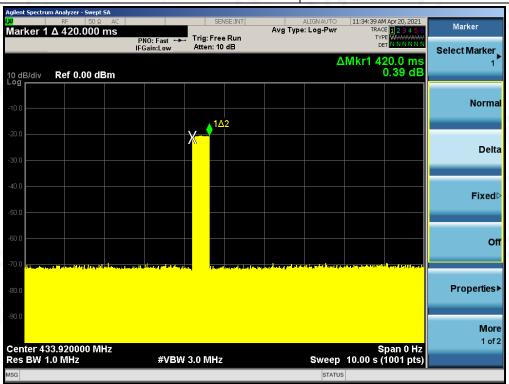


9.3 TEST RESULT

Mode 1(Manual operated):

Test Mode: EUT @ 433.92MHz for RF Transmitter

8	The time of stopping transmission	Limit (s)	
60	0.42	5.00	



RESULT: PASS

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10. DUTY CYCLE CORRECTION FACTOR

10.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

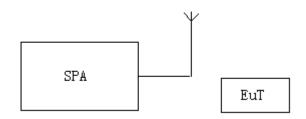
RBW=1MHz; VBW=3MHz

Span: 0Hz

Sweep time: more than two pulse trains or more than each type of pulse occupancy time

- 2. Set the EUT to transmit by manually operated. Use the "Delta mark" function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
- 3. Record the plots and Reported.

10.2 TEST SETUP



10.3 TEST RESULT

Note: The level of the peak emission are less than the average limit, so the average factor need not to be tested

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 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.
- 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 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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.

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

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

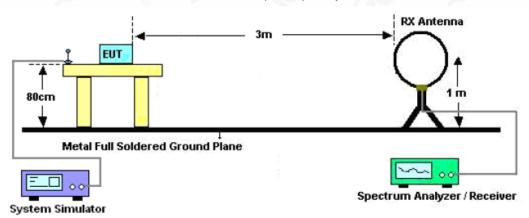
Receiver Parameter	Setting			
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP			
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP			
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP			

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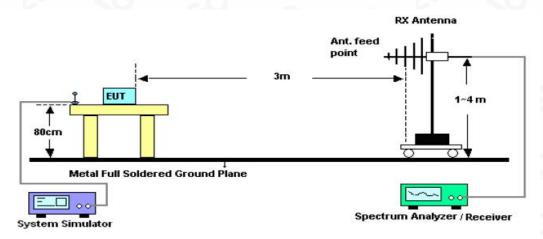


11.2. TEST SETUP

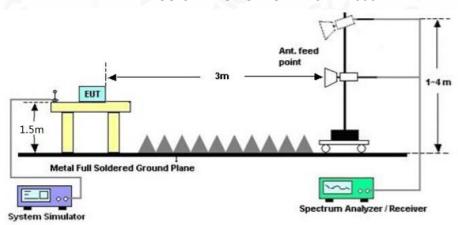
Radiated Emission Test-Setup Frequency Below 30MHz



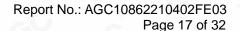
RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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/Inspection The test results the test report.

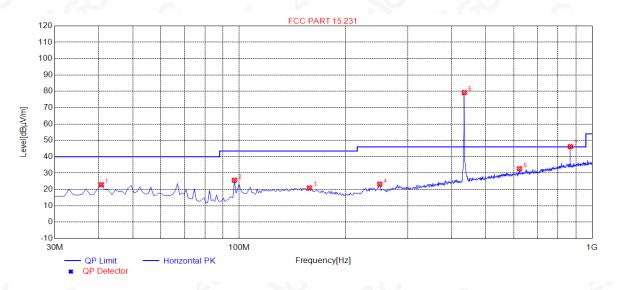


11.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter RADIATED EMISSION BELOW 30MHz

The result of the lowest internal use/generated frequency to 30MHz is 20dB less than the limit.

RADIATED EMISSION BELOW 1GHZ-Horizontal

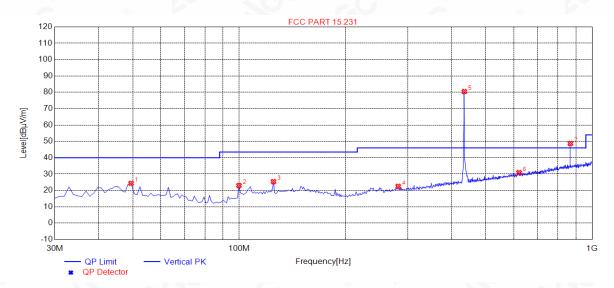


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6700	22.91	11.91	40.00	17.09	150	347	Horizontal
2	96.9300	25.60	10.11	43.50	17.90	150	4	Horizontal
3	158.0400	20.92	14.93	43.50	22.58	150	358	Horizontal
4	250.1900	23.25	14.69	46.00	22.75	150	314	Horizontal
5	433.9200	79.27	20.63	80.80	1.53	150	39	Horizontal
6	622.6700	32.68	24.71	46.00	13.32	150	229	Horizontal
7	867.8400	46.18	29.58	60.80	14.62	150	291	Horizontal

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RADIATED EMISSION BELOW 1GHZ-Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.4000	24.34	11.69	40.00	15.66	150	352	Vertical
2	99.8400	23.02	11.30	43.50	20.48	150	20	Vertical
3	125.0600	25.40	13.81	43.50	18.10	150	141	Vertical
4	282.2000	22.51	16.27	46.00	23.49	150	157	Vertical
5	433.9200	80.48	20.63	80.80	0.32	150	65	Vertical
6	620.7300	30.92	24.67	46.00	15.08	150	3	Vertical
7	867.8400	48.71	29.58	60.80	12.91	150	318	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Limit-Level.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.
- 4. Peak detector is used for radiation dispersion test.

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12. BANDWIDTH

12.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

RBW=0.51KHz

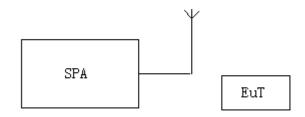
VBW=1.5KHz

Span: 50kHz

Sweep time: Auto

- 2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 3. Record the plots and Reported.

12.2. TEST SETUP



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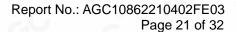
12.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT		
17.55KHz	1084.8KHz	Pass		
Note: Limit= Operation Frequency	uency ×0.25%	, O		



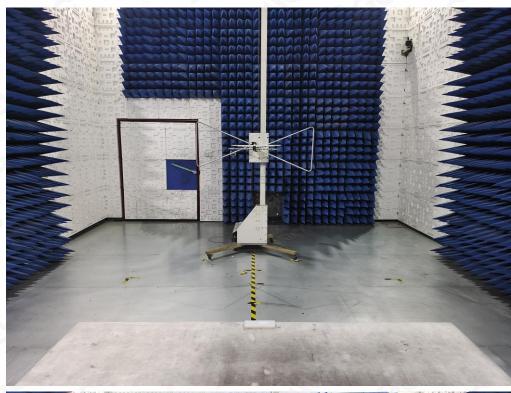
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the condition of the report is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC, where 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





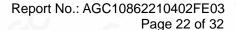
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP





Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the specificated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter pathorization 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





APPENDIX B: PHOTOGRAPHS OF EUT

Test Model

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter purporization 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 15day after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



FRONT VIEW OF EUT



BACK VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the specificated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter pathorization 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



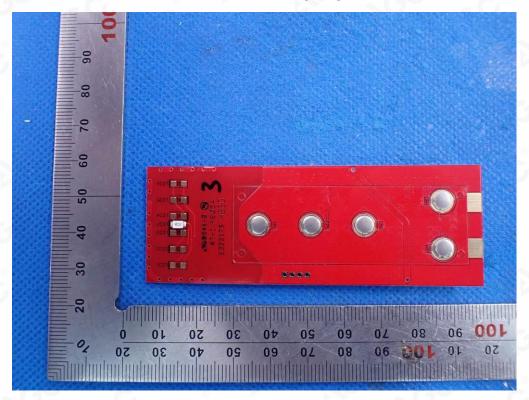
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OPEN VIEW OF EUT



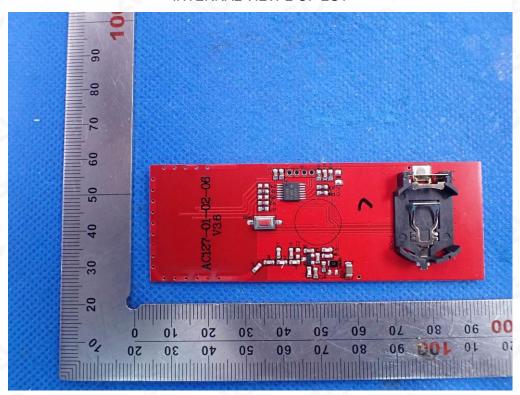
INTERNAL VIEW-1 OF EUT



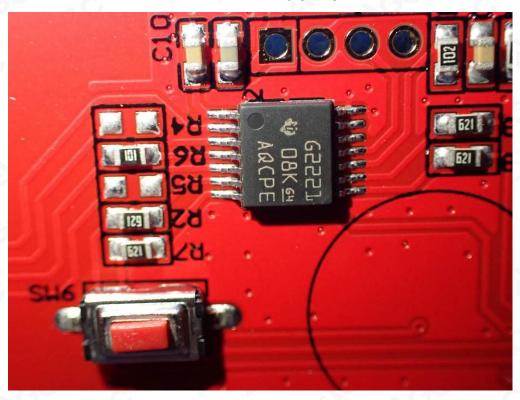
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INTERNAL VIEW-2 OF EUT



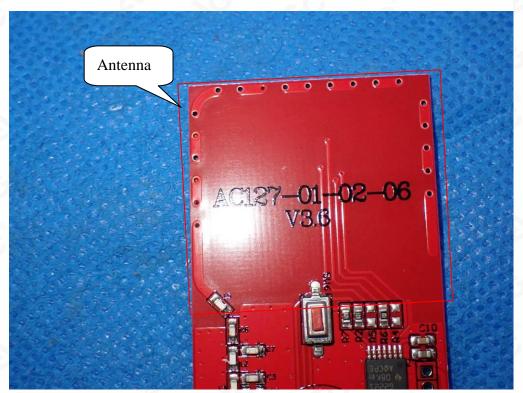
INTERNAL VIEW-3 OF EUT



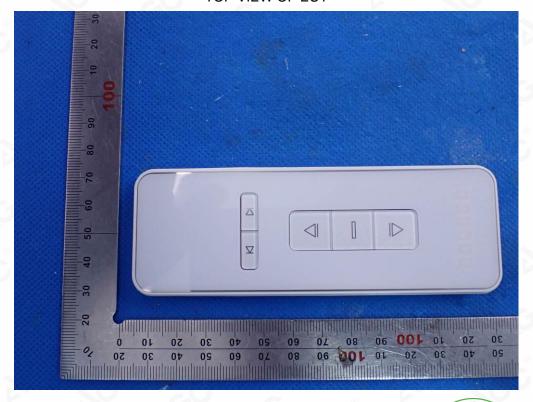
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the specificated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter pathorization 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



INTERNAL VIEW-4 OF EUT



Series Model
TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stadiedard restriction Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written appropriation of AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



BACK VIEW OF EUT



LEFT VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the condition of stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written permitted without the written permitted without the written permitted 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 agc@agc-cert.com.



RIGHT VIEW OF EUT



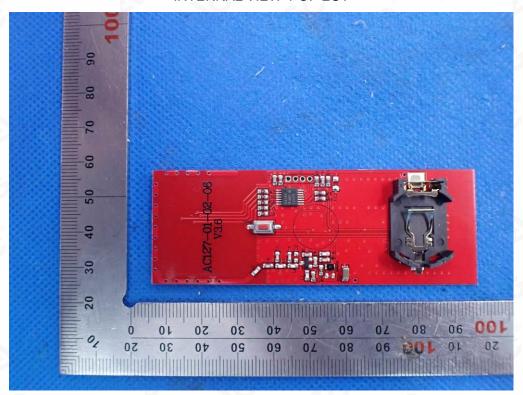
OPEN VIEW OF EUT



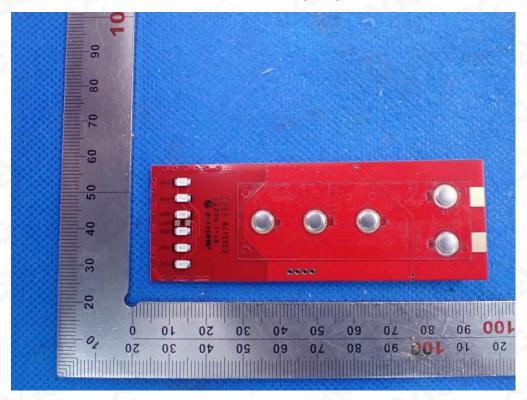
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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT



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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT

Antenna



----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 Festing/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 appropriation of AGC where 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.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@agc-cert.com Web: http://cn.agc-cert.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. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.

/Inspection

The test results

he test report.

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