

Test report no.: <i>Prüfbericht-Nr.:</i>	CN232BSF 001	Order No.: <i>Auftragsnr.:</i>	170348013	Page 1 of 19 <i>Seite 1 von 19</i>
Client reference no.: <i>Kunden-Referenz-Nr.:</i>	N/A	Order date: <i>Auftragsdatum:</i>	2023-07-24	
Client: <i>Auftraggeber:</i>	ORIENTAL RECREATIONAL PRODUCTS (SHANGHAI) CO., LTD. No. 1699 Da Ye Road, Wu Qiao, Fengxian, Shanghai, P.R. China			
Test item: <i>Prüfgegenstand:</i>	GLOW Remote Control			
Identification / Type no.: <i>Bezeichnung / Typ-Nr.:</i>	RC-24GL			
Order content: <i>Auftrags-Inhalt:</i>	Test Report			
Test specification <i>Prüfgrundlage:</i>	47 CFR FCC Part15: Subpart C Section 15.231 47 CFR FCC Part15: Subpart C Section 15.207 47 CFR FCC Part15: Subpart C Section 15.209 47 CFR FCC Part2: Section 2.1093			
Date of sample receipt: <i>Wareneingangsdatum:</i>	2023-07-24	Please refer to Photo Document		
Test sample no: <i>Prüfmuster-Nr.:</i>	A003496334 001~004			
Testing period: <i>Prüfzeitraum:</i>	2023-07-11 to 2023-07-24			
Place of testing: <i>Ort der Prüfung:</i>	Refer to section 2.1			
Testing laboratory: <i>Prüflaboratorium:</i>	TÜV Rheinland (Guangdong) Ltd.			
Test result*: <i>Prüfergebnis*:</i>	Pass			
tested by: <i>geprüft von:</i>		authorized by: <i>genehmigt von:</i>		
Date: 2023-11-07 <i>Datum:</i>		Issue date: 2023-11-07 <i>Ausstellungsdatum:</i>		
Position / Stellung:	Expert/Sachverständige(r)	Position / Stellung:	Expert/Sachverständige(r)	
Other: <i>Sonstiges:</i>	FCC ID: 2AVFRRC-24GL			
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>	Test item complete and undamaged Prüfmuster vollständig und unbeschädigt			
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. <i>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</i>				

Test report no.: CN232BSF 001
Prüfbericht-Nr.:

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Remarks
Anmerkungen

- | | |
|---|---|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</p> <p>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
| 2 | <p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i></p> |
| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FUNDAMENTAL & HARMONICS RADIATED EMISSION

RESULT: Pass

5.1.3 20dB BANDWIDTH

RESULT: Pass

5.1.4 DWELL TIME

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results

2 Test Sites

2.1 Test Facilities

Guangdong Zhongshan Testing Technology Co., Ltd.

Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

FCC Accreditation Designation No.: CN0325

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

For the measurement Equipment list, refer to the appendix B.

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally, all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Item		Extended Uncertainty
Conducted Emission		± 1.38 dB
Radiated Emission (30-1000MHz)	Field strength (dBµV/m)	± 4.68 dB
Radiated Emission (above 1000MHz)	Field strength (dBµV/m)	± 4.89 dB
Radio Spectrum		± 4.89 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The **Error! Reference source not found.** Test facility located at **Error! Reference source not found.** is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is GLOW Ambient Light System operating in 433.92MHz.

Therefore, full tests were performed on RC-24GL.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	GLOW Remote Control
Type Designation	RC-24GL
FCC ID	2AVFRRRC-24GL
Operating Voltage	DC 3V
Testing Voltage	DC 3V
Type of Modulation	ASK
Channel Number	1 channel
Channel Separation	N/A
Antenna Type	PCB Antenna
Antenna number	1
Antenna Gain	1.4 dBi Max

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Normal operation with general 433MHz mode
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model RC-24GL in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
N/A	N/A	N/A	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

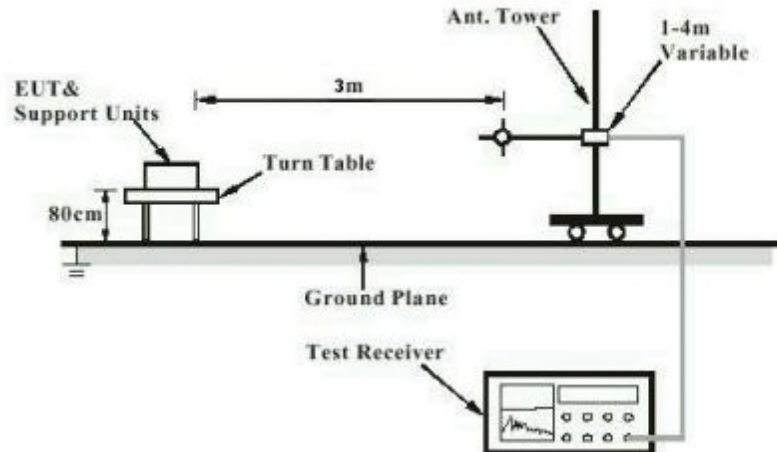


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

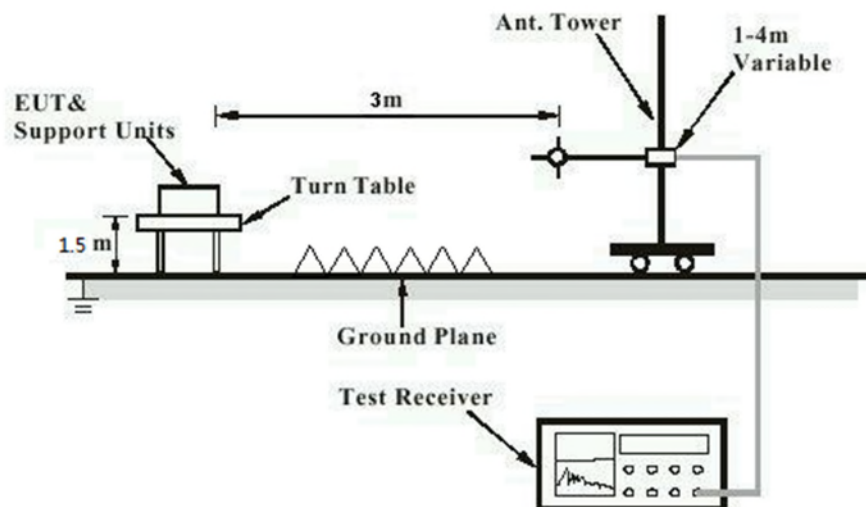
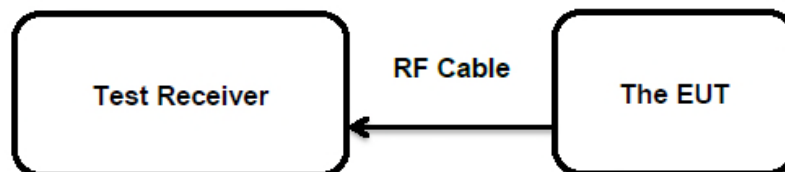


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.4dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore, the EUT is considered sufficient to comply with the provision.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Fundamental & Harmonics Radiated Emission

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.231(b)
Basic standard : ANSI C63.10: 2013
Limits : Refer to FCC Part 15.231(b) *
Kind of test site : Shielded Room

Test Setup

Date of testing : 11.07.2023
Input voltage : DC 3V
Operation mode : A
Test channel : 433MHz
Ambient temperature : 22 °C
Relative humidity : 56 %
Atmospheric pressure : 100 kPa

* Remark:

Fundamental Frequency MHz	Field Strength of Fundamental (dBµV/m @ 3 m)	Field Strength of Harmonics and Spurious Emissions (dBµV/m @ 3 m)
40.66 to 40.70	67.04	47.04
70 to 130	61.94	41.94
130 to 174	61.94 to 71.48	41.94 to 51.48
174 to 260	71.48	51.48
260 to 470	71.48 to 81.94	51.48 to 61.94
Above 470	81.94	61.94
Detector:	Peak for pre-scan QP for 30MHz to 1000 MHz: 120 kHz resolution bandwidth Peak for Above 1 GHz: 1 MHz resolution bandwidth	

linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

The fundamental frequency of the EUT is **433.92 MHz**

The limit for average or QP field strength dBuV/m for the fundamental emission= **80.8 dBuV/m**

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuV/m for the spurious emission= **60.8 dBuV/m**. Spurious in the restricted bands must be less than 60.8 dBuV/m or 15.209, whichever limit permits a higher field strength.

5.1.3 20dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.231(c)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 15.09.2023
Input voltage : DC 3V
Operation mode : A
Test channel : 433MHz
Ambient temperature : 22 °C
Relative humidity : 56 %
Atmospheric pressure : 100 kPa

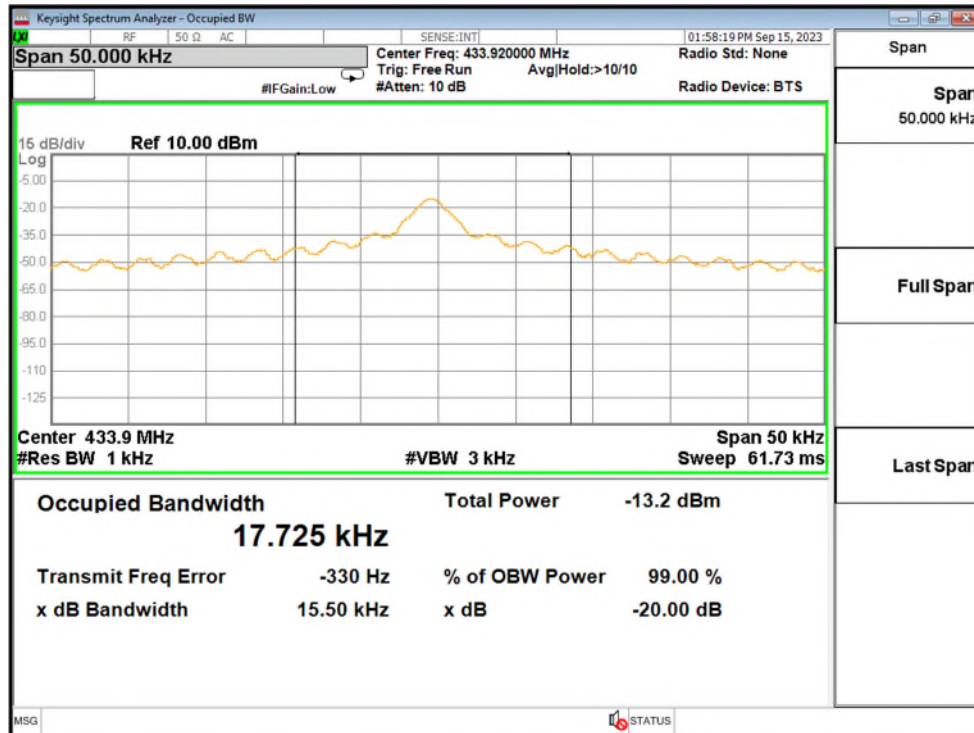
For details refer to following test result.

Table 4: Test Result of 20dB Bandwidth

Test Channel (MHz)	20dB Bandwidth (kHz)	Limit (MHz)
433.92	15.50	$433.92 * 0.25\% = 1.0848$

For the measurement records, refer to following test plot:

Test Plot of 20dB Bandwidth



5.1.4 Dwell Time

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.231(a)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FCC Part 15.231(a)*
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	06.07.2023
Input voltage	:	DC 3V
Operation mode	:	A
Test channel	:	433MHz
Ambient temperature	:	22 °C
Relative humidity	:	56 %
Atmospheric pressure	:	100 kPa

***Remark:**

1. Regulation 15.231 (a) The provisions of this Section are restricted to periodic operation within the band 40.66 40.70 MHz and above 70 MHz. Except as shown in paragraph (e) of this Section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Radio control of toys is not permitted. Continuous transmissions, such as voice or video, and data transmissions are not permitted. The prohibition against data transmissions does not preclude the use of recognition codes. Those codes are used to identify the sensor that is activated or to identify the particular component as being part of the system.

Result:

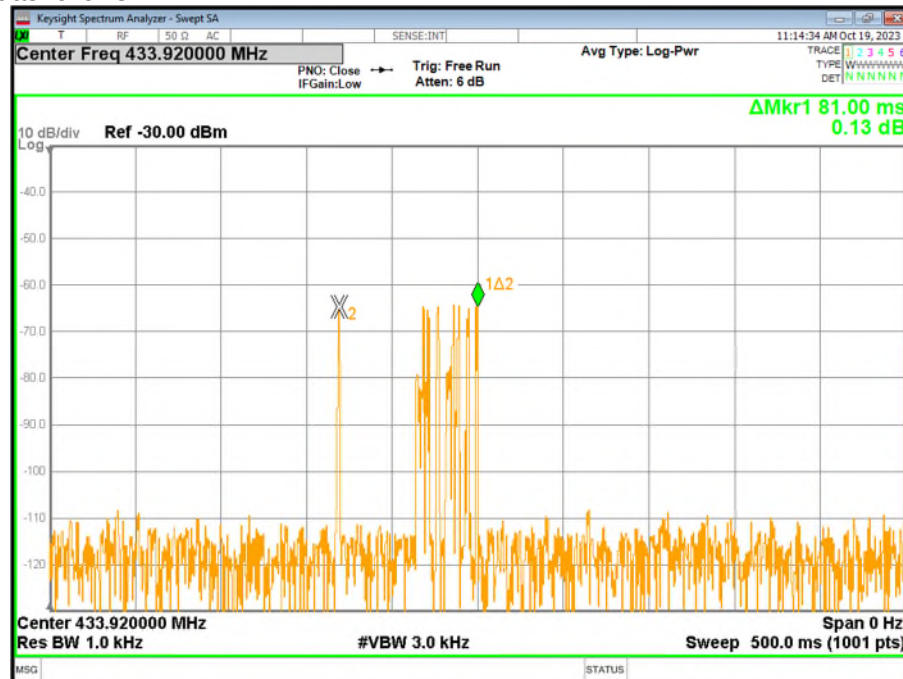
The EUT is a remote switch without audio or video transmitted.
The EUT meets the requirements of this section.

2. Regulation 15.231 (a1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Result:

Carrier Frequency	Shutdown Time	Limit
433.92MHz	0.081s	≤5s

Result plot as follows:



3. Regulation 15.231 (a2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Result:

The EUT does not have automatic transmission.

4. Regulation 15.231 (a3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.

Result:

The EUT does not employ periodic transmission.

5. Regulation 15.231 (a4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

Result:

This section is not applicable to the EUT.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard

: CFR47 FCC Part 2: Section 2.1093
CFR47 FCC Part 1: Section 1.1310
FCC KDB Publication 447498 D01 v06

➤ **FCC requirements**

FCC requirement: Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1093 this device has been defined as a portable device.

Measurement Record for CFR47 FCC Part 2.1093

The minimum distance for the EUT is less than 5mm.

The maximum specified e.i.r.p.: 66.10dBuV/m @3m = -29.13dBm=0.002018mW

Antenna Gain: 1.4dBi max

According to KDB 447498 D01 v06 4.3.1 a)

Exempted Power: 9.5mW, hence the EUT is compliance with the RF exposure.

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

8 List of Tables

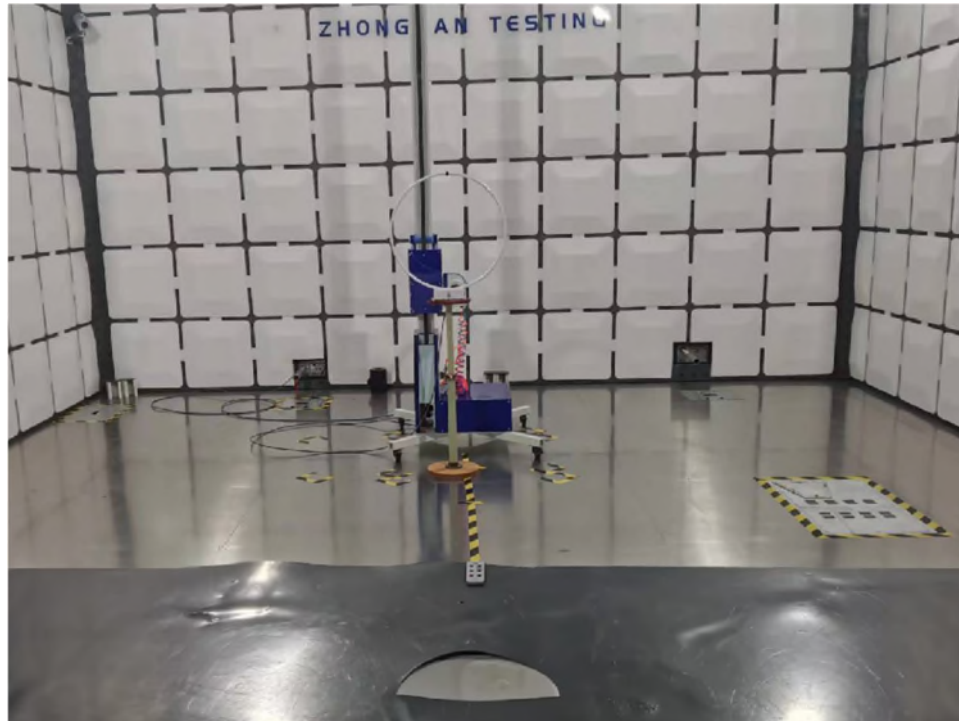
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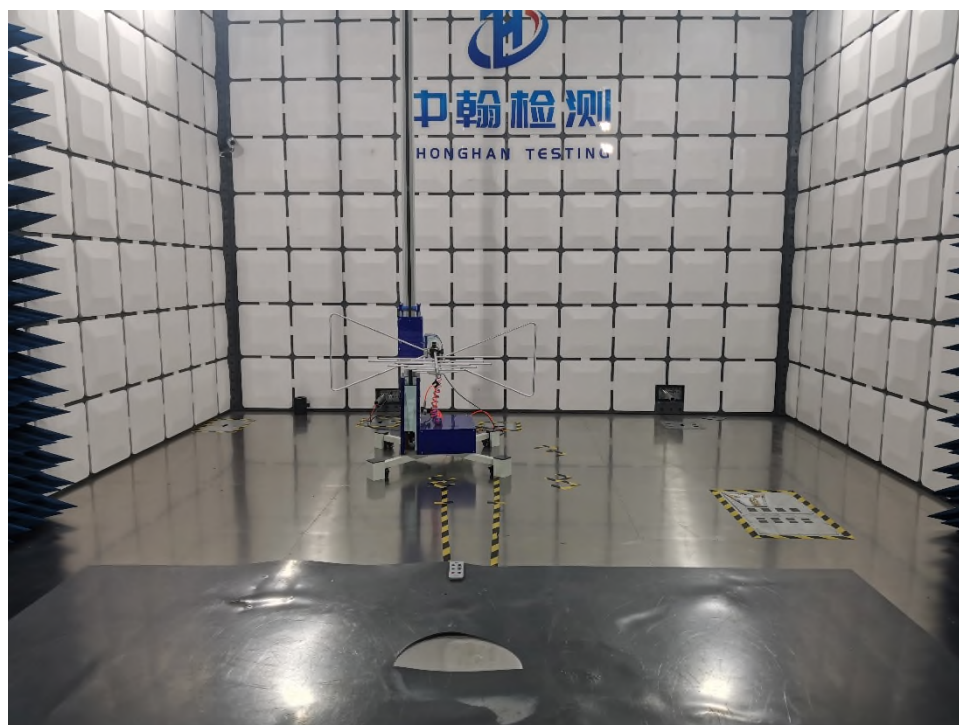
Appendix A: Photographs of the Test Set-Up

APPENDIX A: PHOTOGRAPHS OF THE TEST SET-UP	1
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PHOTOGRAPH 2: SET-UP FOR RADIATED SPURIOUS EMISSION, 30MHz - 1GHz.....	2
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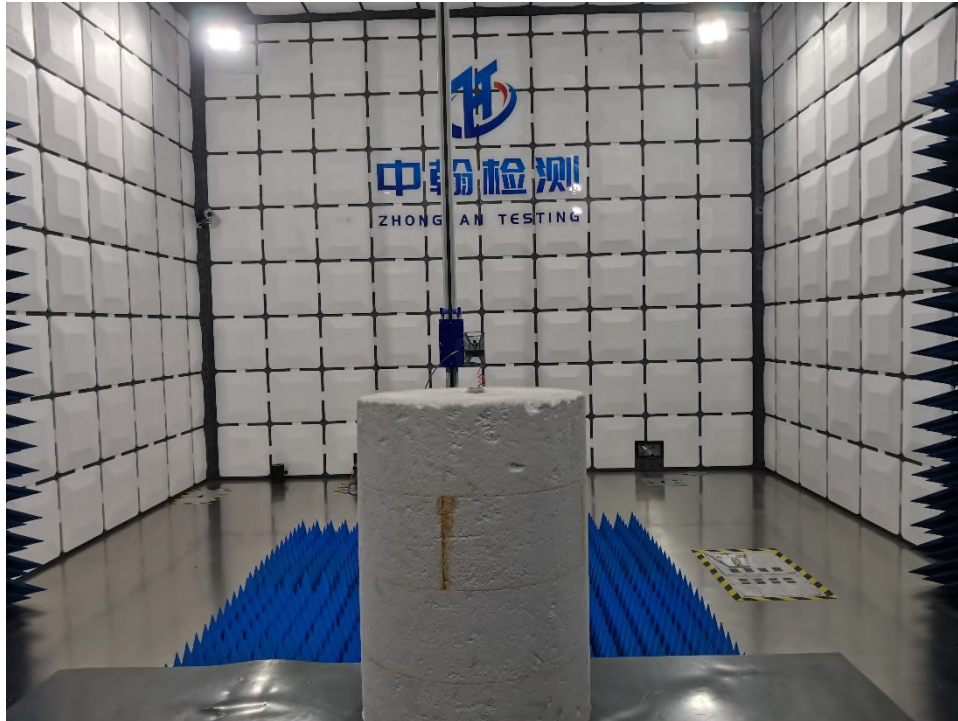
Photograph 1: Set-up for Radiated Spurious Emission, 9kHz - 30MHz



Photograph 2: Set-up for Radiated Spurious Emission, 30MHz - 1GHz



Photograph 3: Set-up for Radiated Spurious Emission, 1GHz - 5GHz



Appendix B: Test Results

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30MHz - 1GHz	3
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Appendix B.1: Measurement Equipment List

Equipment	Manufacturer	Model No.	Last Cal.	Next Cal.
Radio Frequency Test				
Spectrum Analyzer	KEYSIGHT	N9020A	Mar 12, 2023	Mar 11, 2024
Power Amplifier Shielding Room	EMToni	2m3m3m	Nov. 25, 2021	Nov 24, 2024
Software: MTS 8310 (version: 2.0.0.0)				
Radiated Emissions Test				
Receiver	R&S	ESCI	Mar 12, 2023	Mar 11, 2024
Loop antenna	EMCI	LAP600	Mar 12, 2023	Mar 11, 2024
Amplifier	Schwarzbeck	BBV 9743 B	Mar 12, 2023	Mar 11, 2024
Amplifier	Schwarzbeck	BBV 9718 B	Mar 17, 2023	Mar 16, 2024
Bilog Antenna	Schwarzbeck	VULB9162	Mar 17, 2023	Mar 16, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	Mar 12, 2023	Mar 11, 2024
Horn Antenna	A.H.SYSTEMS	SAS574	Mar 12, 2023	Mar 11, 2024
Amplifier	AEROFLEX	100KHz-40GHz	Mar 12, 2023	Mar 11, 2024
Spectrum Analyzer	R&S	FSV40	Mar 12, 2023	Mar 11, 2024
966 Anechoic Chamber	EMToni	9m6m6m	Nov. 25, 2021	Nov 24, 2024
Software: EZ-EMC (version: FA-03A2 RE+)				

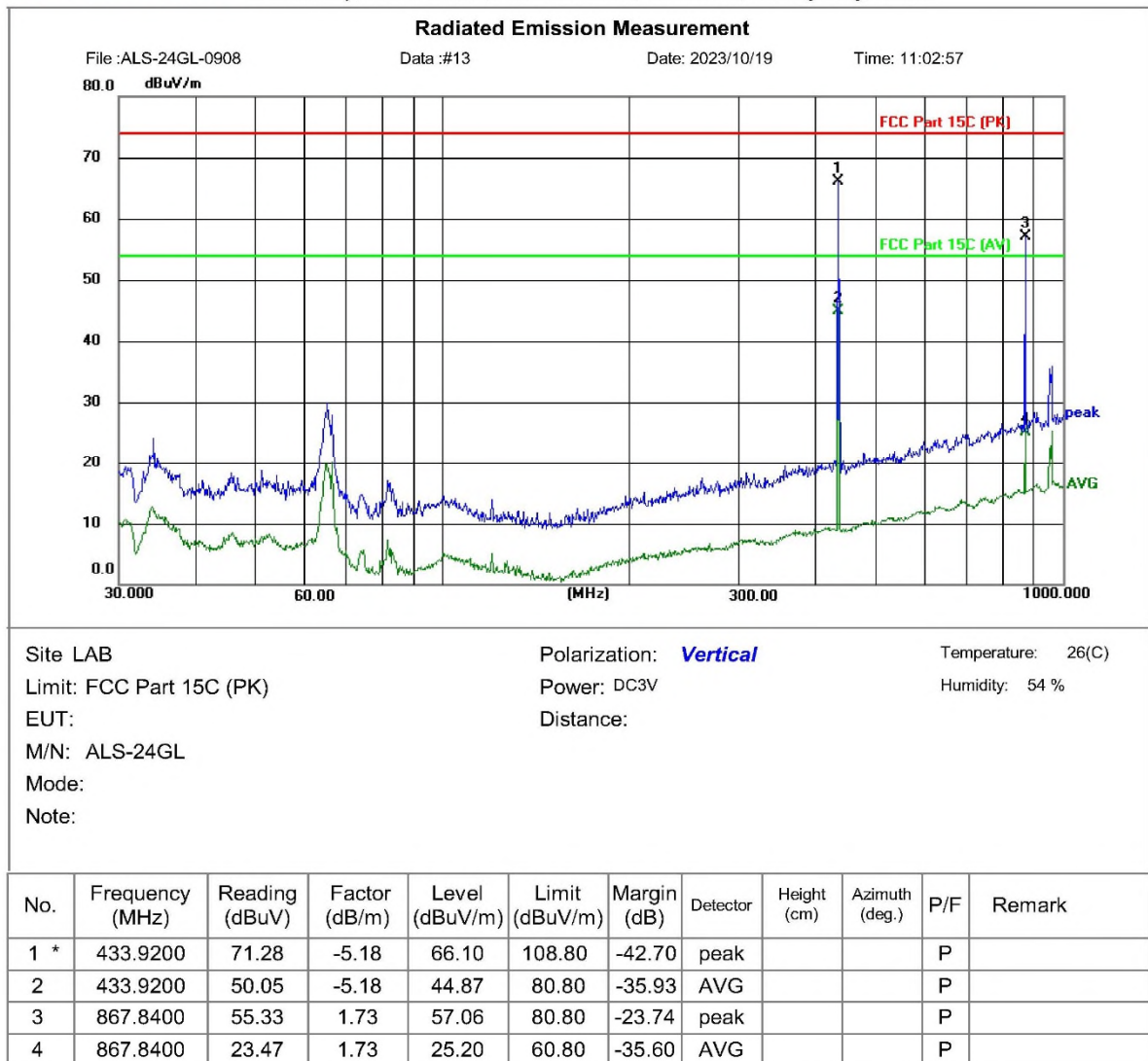
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz was greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 5GHz were reported.

Appendix B.2: Fundamental & Harmonics Radiated Emission

30MHz - 1GHz



Guangdong Zhonghan Testing Technology Co., Ltd.
Room 104, Building 1, Yibaolai Industrial Park, Qiaotou
Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



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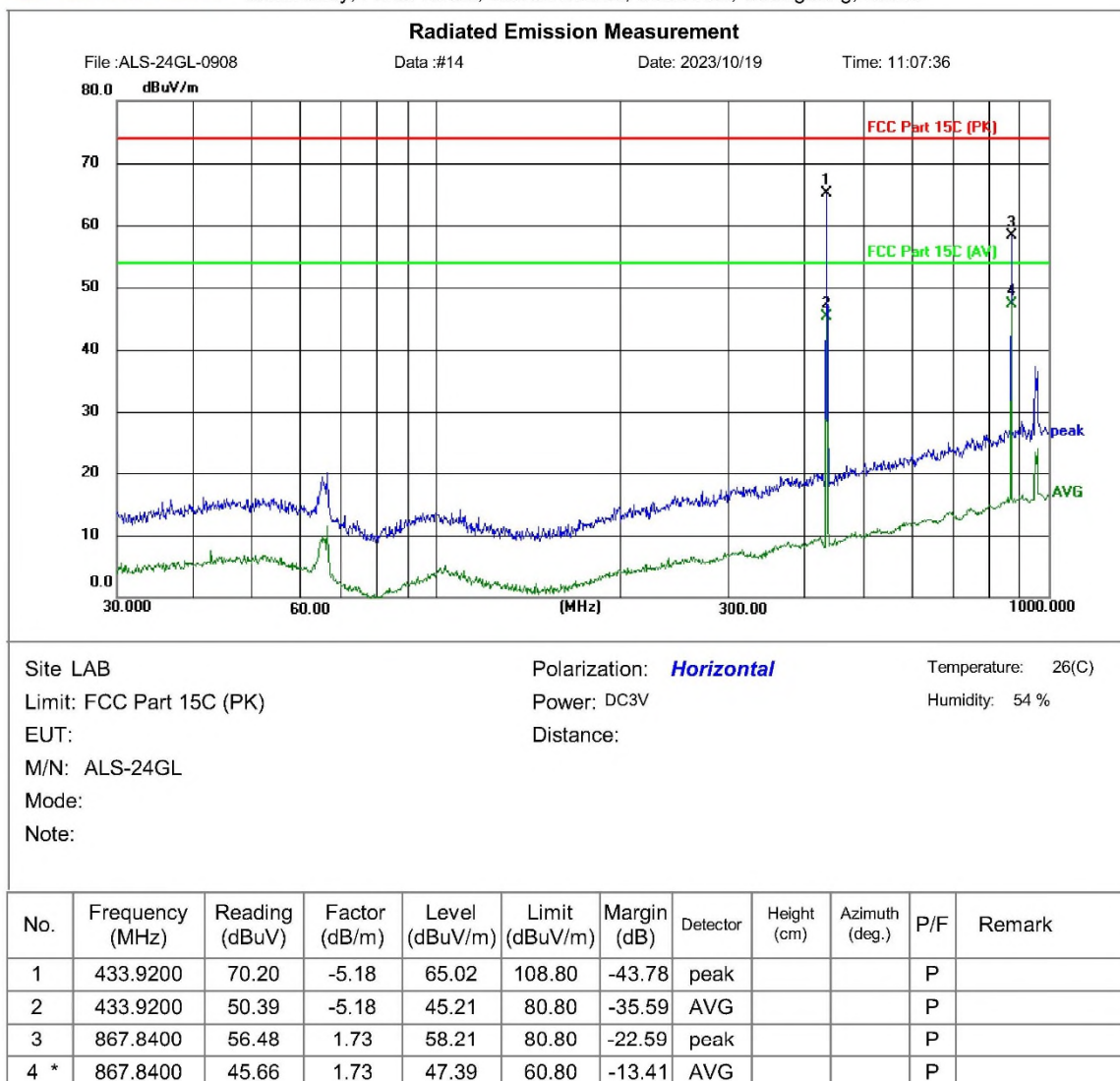
联系电话: 0755-27782934

邮箱: admin@zht-lab.cn

网址: <http://www.zht-lab.cn>



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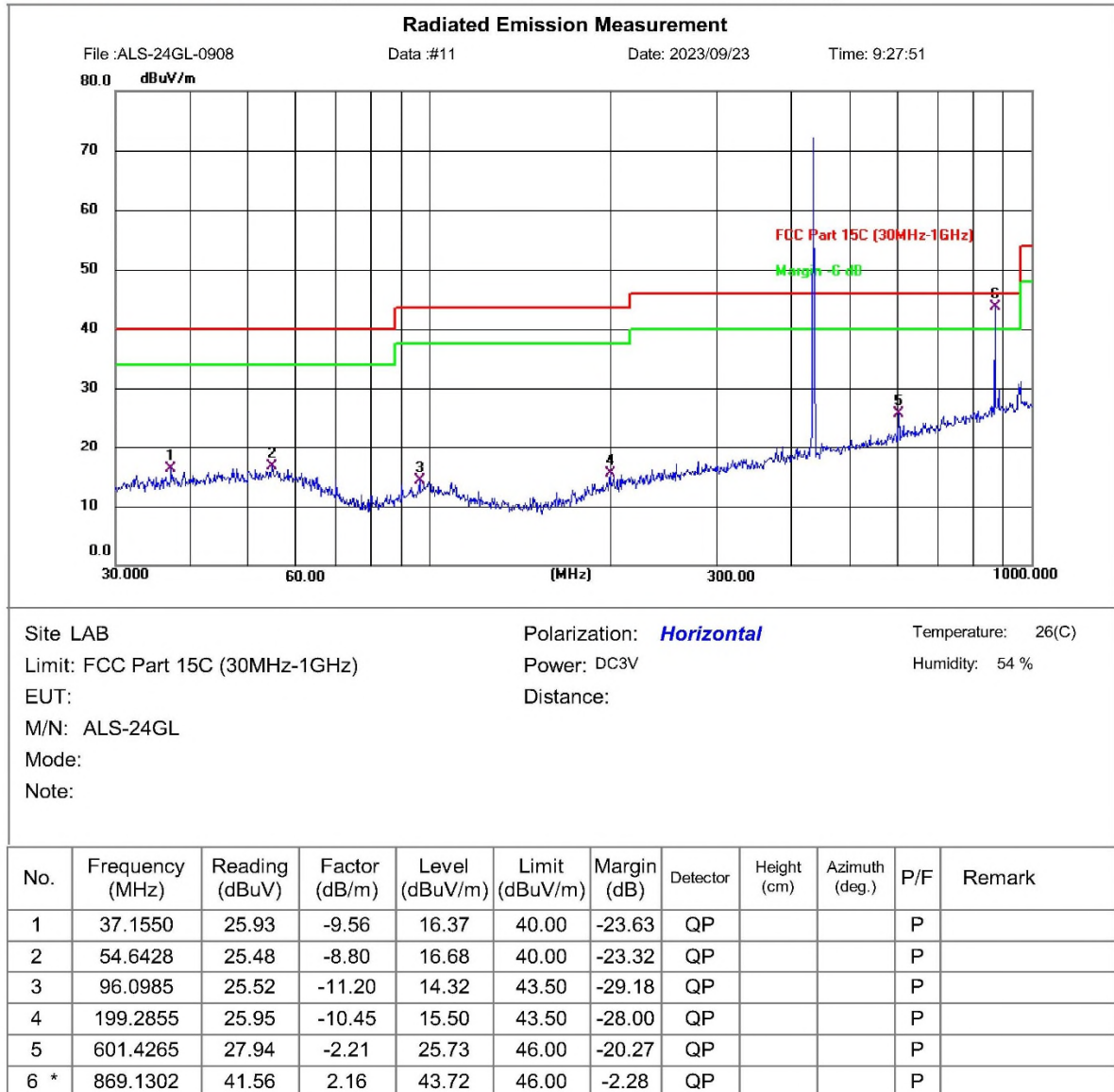
联系电话: 0755-27782934

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Engineer Signature:

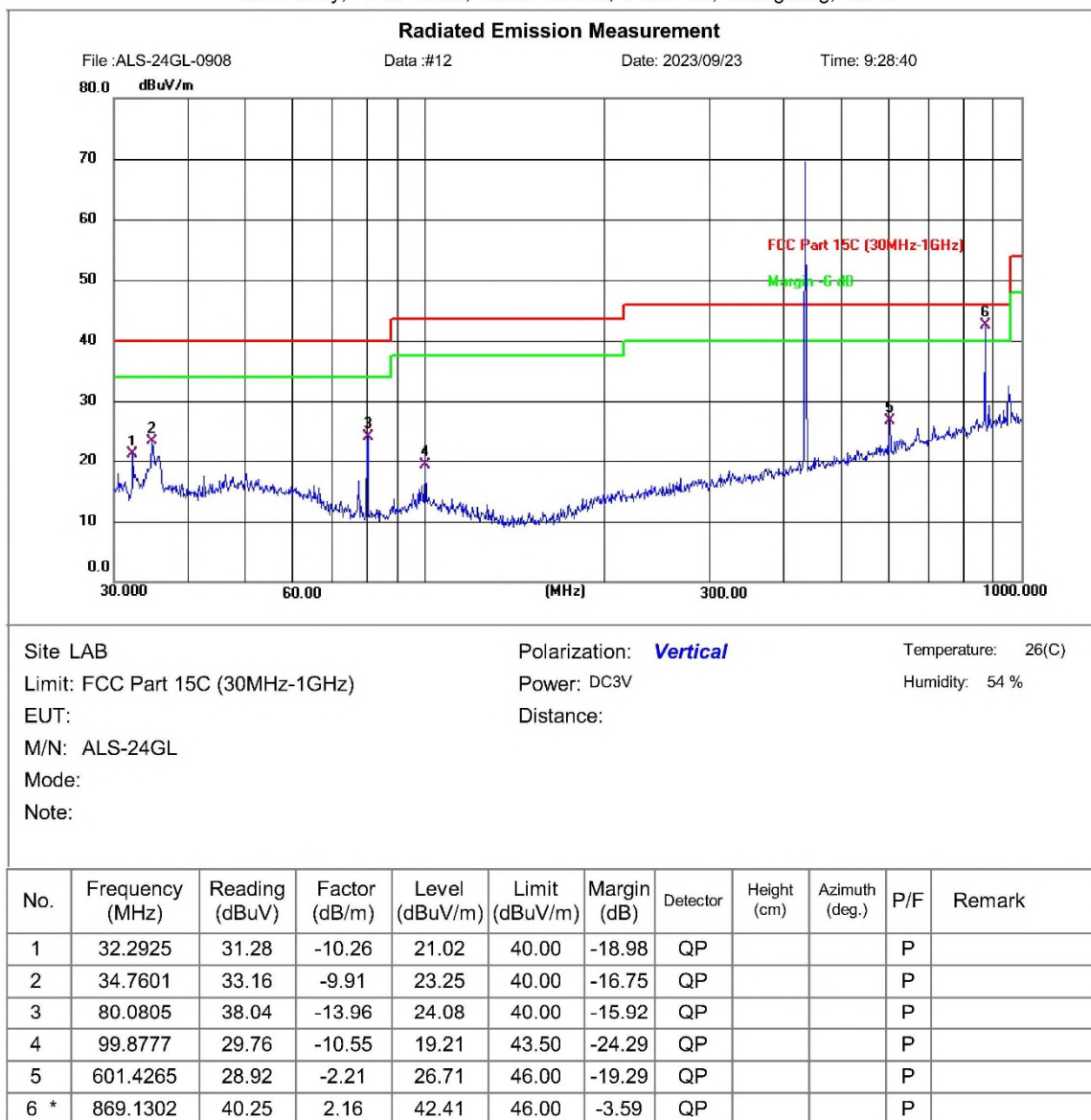
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邮箱: admin@zht-lab.cn

网址: <http://www.zht-lab.cn>



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*:Maximum data x:Over limit !:over margin

File :ALS-24GL-0908\Data :#12

Page: 1

Engineer Signature:

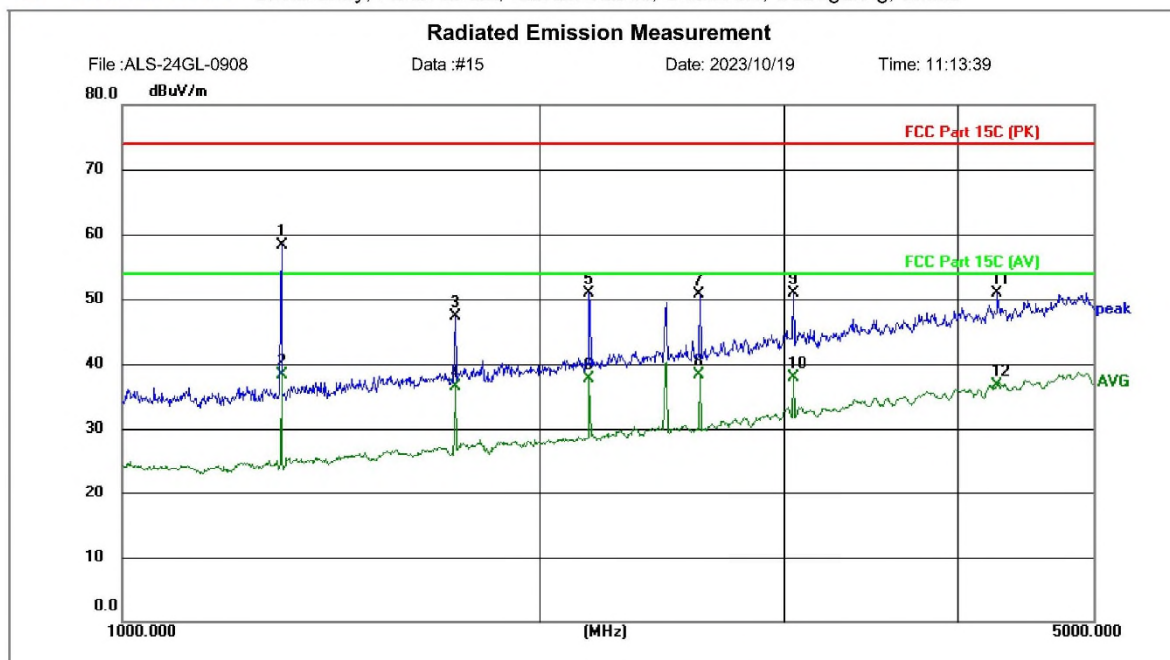
联系电话: 0755-27782934

邮箱: admin@zht-lab.cn

网址: <http://www.zht-lab.cn>



Guangdong Zhonghan Testing Technology Co., Ltd.
Room 104, Building 1, Yibaolai Industrial Park, Qiaotou
Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Site LAB
Limit: FCC Part 15C (PK)
EUT:
M/N: ALS-24GL
Mode:
Note:

Polarization: **Horizontal**
Power: DC3V
Distance:

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1302.060	54.56	3.82	58.38	74.00	-15.62	peak			P	
2	1302.060	34.50	3.82	38.32	54.00	-15.68	AVG			P	
3	1736.788	40.80	6.59	47.39	74.00	-26.61	peak			P	
4	1736.788	29.87	6.59	36.46	54.00	-17.54	AVG			P	
5	2168.725	42.27	8.58	50.85	74.00	-23.15	peak			P	
6	2168.725	29.22	8.58	37.80	54.00	-16.20	AVG			P	
7	2605.476	40.03	10.77	50.80	74.00	-23.20	peak			P	
8 *	2605.476	27.62	10.77	38.39	54.00	-15.61	AVG			P	
9	3040.803	38.13	12.68	50.81	74.00	-23.19	peak			P	
10	3040.803	25.19	12.68	37.87	54.00	-16.13	AVG			P	
11	4263.556	33.50	17.35	50.85	74.00	-23.15	peak			P	
12	4263.556	19.28	17.35	36.63	54.00	-17.37	AVG			P	

*:Maximum data x:Over limit !:over margin

File :ALS-24GL-0908>Data :#15

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Engineer Signature:

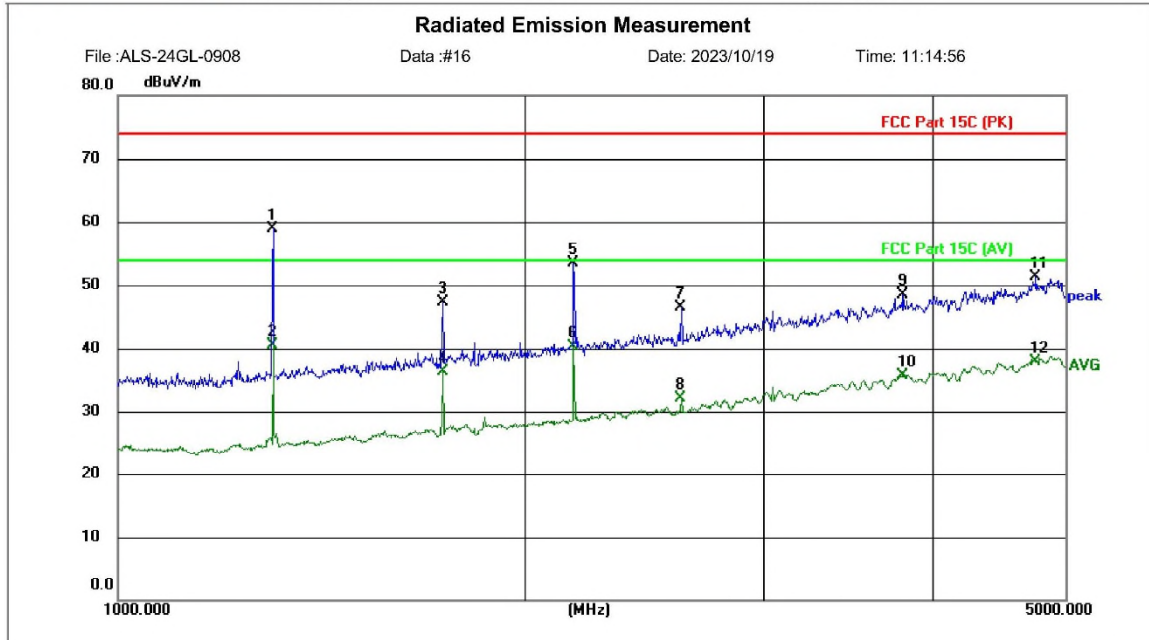
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Site LAB
Limit: FCC Part 15C (PK)
EUT:
M/N: ALS-24GL
Mode:
Note:

Polarization: **Vertical**
Power: DC3V
Distance:

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1302.060	55.00	3.82	58.82	74.00	-15.18	peak			P	
2 *	1302.060	36.72	3.82	40.54	54.00	-13.46	AVG			P	
3	1736.788	40.79	6.59	47.38	74.00	-26.62	peak			P	
4	1736.788	29.79	6.59	36.38	54.00	-17.62	AVG			P	
5	2168.725	44.85	8.58	53.43	74.00	-20.57	peak			P	
6	2168.725	31.79	8.58	40.37	54.00	-13.63	AVG			P	
7	2605.476	35.81	10.77	46.58	74.00	-27.42	peak			P	
8	2605.476	21.38	10.77	32.15	54.00	-21.85	AVG			P	
9	3797.048	32.70	15.73	48.43	74.00	-25.57	peak			P	
10	3797.048	19.95	15.73	35.68	54.00	-18.32	AVG			P	
11	4756.658	32.64	18.66	51.30	74.00	-22.70	peak			P	
12	4756.658	19.26	18.66	37.92	54.00	-16.08	AVG			P	

*:Maximum data x:Over limit !:over margin

File :ALS-24GL-0908\Data :#16

Page: 1

Engineer Signature:

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