

Page 1 of 28 Report No.: KS2408S3616E01

TEST REPORT

Report No...... : KS2408S3616E01

FCC ID.....: 2BGDC-DP-P2400R

Applicant.....: Ningbo Duopower New Energy Electrical Technology Co., Ltd.

Address....: No.168 North Huancheng Road, Zhouxiang Town, Cixi City, Ningbo, China

Manufacturer....: Ningbo Duopower New Energy Electrical Technology Co., Ltd.

Address....: No.168 North Huancheng Road, Zhouxiang Town, Cixi City, Ningbo, China

Product Name....: Portable Power Station

DuoPower Trademark.....:

DP-P2400R, DP-P2400D, DP-P2400B, DP-P2400C, DP-P2400F, Model/Type reference....:

DP-P2400G, DP-P2400H, DP-P2400K, DP-P2400L, DP-P2400M,

DP-P2400P, DP-P2400Q

Standard.....: 47 CFR Part 15C

Date of Receipt...... August 19, 2024

Date of Test Date...... August 29, 2024 to September 24, 2024

Date of issue.....: September 25, 2024

Test result.....:

Prepared by:

(Printed name + Signature)

Chad Lin

Chool Lin

Approved by:

(Printed name + Signature)

Sky Dong

Testing Laboratory Name...: KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, Address....:





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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

47 CFR Part 15C: Radiated emission limits; general requirements

ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Date of issue	Description
01	September 25, 2024	Original
/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- 18%.	
		- S. S.
	M. S. M. 2	





1.3. Test Description

Test Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15C	47 CFR Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15C	47 CFR Part 15.207(a)	Pass
20dB Occupied Bandwidth	47 CFR Part 15C	47 CFR Part 15.215(c)	Pass
Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass
Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass



1.4. Test Facility

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L 13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED#: 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

FCC-Registration No.: 294912 Designation Number: CN1328

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

1.5. Measurement Uncertainty

Test Items	Measurement Uncertainty	
Conducted Emission (150k-30MHz)	± 3.34dB	
RE(9kMz~30MHz)	± 2.20dB	
RSE (30-1000MHz)	± 5.7dB	

The reported uncertainty of measurement $y \pm U$, 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 %. Otherwise required by the applicant or Product Regulations. Decision Rule in this report did not consider the uncertainty.

TRF No. RF_R1





2. GENERAL INFORMATION

2.1. General Description Of EUT

Test Sample Number:	KS2408S3616E-01, KS2408S3616E-02			
Product Name:	Portable Power Station			
Trademark:	DuoPower			
Model / Type reference:	DP-P2400R, DP-P2400D, DP-P2400B, DP-P2400C, DP-P2400F, DP-P2400G, DP-P2400H, DP-P2400K, DP-P2400L, DP-P2400M, DP-P2400P, DP-P2400Q			
Model Difference:	The differences between the product models are accessories carried and the model name. Different model names are available to meet market demand. Other power supply methods, internal structures, circuits and key components are the same, and do not affect safety and electromagnetic compatibility performance. According to the above information, all tests were performed on model DP-P2400R.			
Power Supply:	Input: AC 100-120V, 50/60Hz Battery: DC 48V Wrieless charging: 5W/7.5W/10W/15W			
Operation Frequency:	115KHz-205KHz			
Modulation Type:	ASK			
Antenna Type:	Coil			
Antenna Gain:	0dBi			
Hardware Version:	1.0			
Software Version:	1.0			

manual.

Note: Antenna gain provided by the applicant Can affect the validity of results

2.2. Accessory Equipment Information

Title	Manufacturer	Model No.	Technical Parameters	Provided by
Wireless charging load	YBZ	N/A	5W, 7.5W, 10W, 15W	Laboratory





2.3. Description of Test Modes

No.	Title	Description of Mode
Test Mode1	AC Charging+Wireless charge output 99% powe(15W)	N/A
Test Mode2	AC Charging+Wireless charge output 50% powe(15W)	N/A
Test Mode3	AC Charging+Wireless charge output 1% powe(15W)	N/A
Test Mode4	AC Charging+Wireless charge output 99% powe(10W)	N/A
Test Mode5	AC Charging+Wireless charge output 50% powe(10W)	N/A
Test Mode6	AC Charging+Wireless charge output 1% powe(10W)	N/A
Test Mode7	AC Charging+Wireless charge output 99% powe(7.5W)	N/A
Test Mode8	AC Charging+Wireless charge output 50% powe(7.5W)	N/A
Test Mode9	AC Charging+Wireless charge output 1% powe(7.5W)	N/A
Test Mode10	AC Charging+Wireless charge output 99% powe(5W)	N/A
Test Mode11	AC Charging+Wireless charge output 50% powe(5W)	N/A
Test Mode12	AC Charging+Wireless charge output 1% powe(5W)	N/A
Test Mode13	Wireless charge output 99% powe(15W)	N/A
Test Mode14	Wireless charge output 50% powe(15W)	N/A
Test Mode15	Wireless charge output 1% powe(15W)	N/A
Test Mode16	Wireless charge output 99% powe(10W)	N/A
Test Mode17	Wireless charge output 50% powe(10W)	N/A
Test Mode18	Wireless charge output 1% powe(10W)	N/A
Test Mode19	Wireless charge output 99% powe(7.5W)	N/A
Test Mode20	Wireless charge output 50% powe(7.5W)	N/A
Test Mode21	Wireless charge output 1% powe(7.5W)	N/A
Test Mode22	Wireless charge output 99% powe(5W)	N/A
Test Mode23	Wireless charge output 50% powe(5W)	N/A
Test Mode24	Wireless charge output 1% powe(5W)	N/A

Note: All test modes were pre-tested, The Mode 1 was the worst case and only the data of the worst case record in this report.





2.4. Measurement Instruments List

Conducted Emission at AC power line				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
LISN	R&S	ENV432	1326.6105.02	2025-01-19
EMI Test Receiver	R&S	ESR	102524	2025-01-19
Manual RF Switch	JS TOYO		MSW-01/002	2025-01-19
ISN CAT6	Schwarzbeck	CAT5 8158	227	2025-01-19
Color Signal Generator	Philips	PM5418	672926	2025-01-19
Power Absorbing Clamp	R&S	MDS-21	100925	2025-01-21
TV Tuner	SUNLIGHT	ST5075		2024-12-12
LISN	EVERFINE	LS-5	G657431CD14311 12	2025-01-19
Current Sensor Probe	Beijin ZHINAN	ZN23101	23013	2024-12-12
PV Artificial power network	Beijing KeHuan	KH8301	830120007	2025-07-23

20dB Occupied Bandwidth					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
Wideband Radio Communication Tester	R&S	CMU200	115297	2025-01-19	
Audio Analyzer	R&S	UPL16	100001	2025-01-19	
Shielding box	Gxiong	GX-5915A	2201113	2025-01-19	
High Pass Filter	COM-MW Technology Co., Ltd	ZHPF-M1.2-9G-1 87	09203403	2025-01-19	
Band Stop Filter	COM-MW Technology Co., Ltd	ZBSF6-C820-920 -188	09203401	2025-01-19	
Splitter	COM-MW Technology Co., Ltd	ZPD-M1-8-2103	09203407	2025-01-19	
Coaxial Cable	BEBES	A40-2.92M2.92F- 4.5M	1907021	2025-01-19	
Hygrothermograph	Anymetre	JB913	1	2025-01-19	
Climate Chamber	Angul	AGNH80L	1903042120	2025-01-19	
Spectrum Analyzer	HP	8593E	3831U02087	2025-01-19	
Dual Output DC Power Supply	Agilent	E3646A	MY40009992	2025-01-19	
RF Control Unit	Tonscend	JS0806-2		2025-01-19	
Analog Signal Generator	HP	83752A	3344A00337	2025-01-19	
Vector Signal Generator	Agilent	N5182A	MY50142520	2025-01-19	
Wideband Radio Communication Tester	R&S	CMW500	157282	2025-01-19	
Spectrum Analyzer	R&S	FSV40-N	101798	2025-01-19	

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Emissions in frequency bands (30MHz - 1GHz) Emissions in frequency bands (below 30MHz)				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Color Signal Generator	Philips	PM5418	672926	2025-01-19
Log Periodic Antenna	Schwarzbeck	VULB 9163	1230	2025-01-29
Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	2025-01-19
Broadcast Television Signal Generator	R&S	SFE100	141038	2025-01-19
Analog Signal Generator	Agilent	8648A	3847M00445	2025-01-19
EMI Test Receiver	R&S	ESR	102525	2025-01-19
Loop Antenna	Beijin ZHINAN	ZN30900C	18050	2025-01-29
Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	2025-01-21
Pre-Amplifier	EMCI	EMC051835SE	980662	2025-01-19
Spectrum Analyzer	Keysight	N9020A	MY46471971	2025-01-19





3. Evaluation Results (Evaluation)

3.1. Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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 use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Antenna Information:	The antenna used in this product is a Coil Antenna.

TRF No. RF_R1





4. Radio Spectrum Matter Test Results (RF)

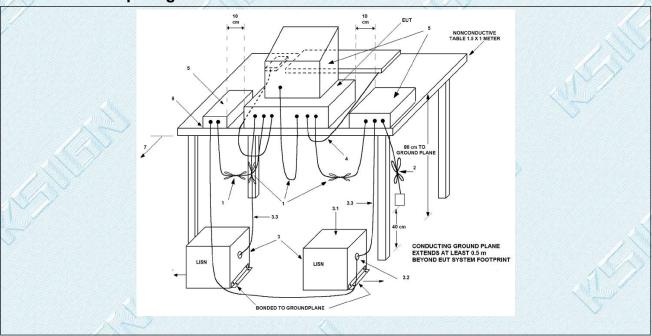
4.1. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).				
	Frequency of emission (MHz)	Conducted limit (dBµV)			
	V	Quasi-peak	Average		
\$\	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5	56	46		
	5-30	60	50		
	*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2013 section 6.2	ANSI C63.10-2013 section 6.2			
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices				

4.1.1. E.U.T. Operation:

Operating Environment:	
Temperature:	23.4 °C
Humidity:	53.4 %
Atmospheric Pressure:	101 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6, Test Mode7, Test Mode8, Test Mode9, Test Mode10, Test Mode11, Test Mode12,

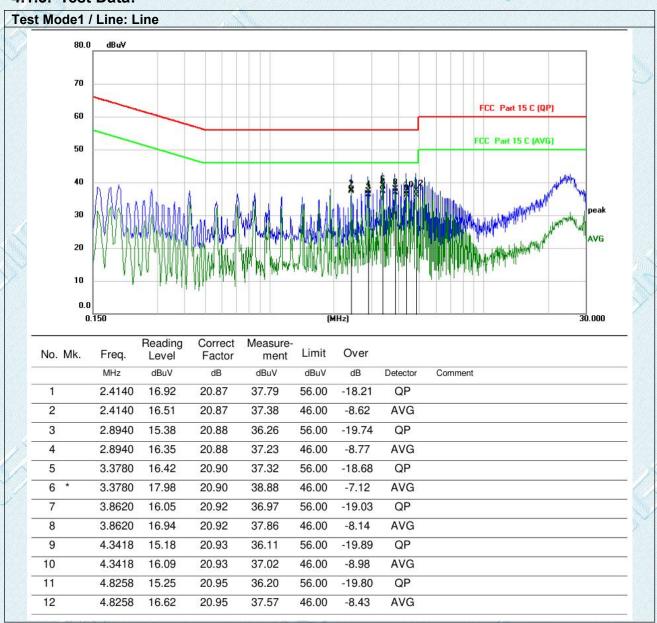
4.1.2. Test Setup Diagram:



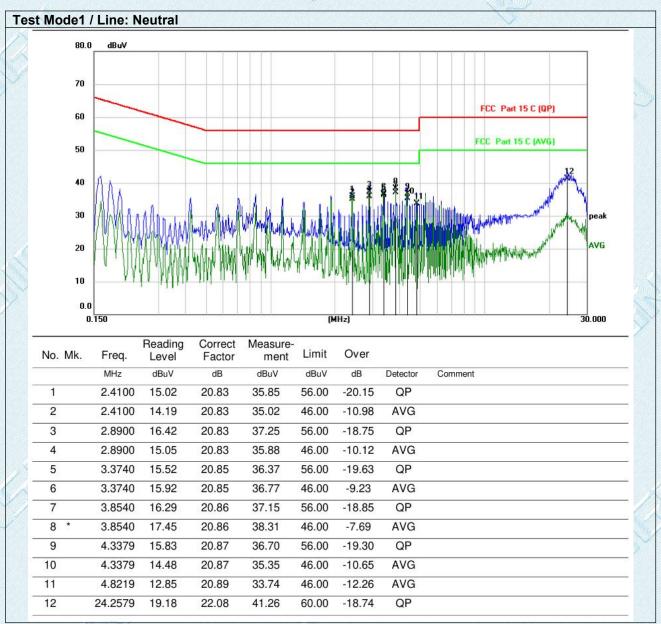




4.1.3. Test Data:







Note:

- 1). QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB)
- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- 4). AVMargin(dB) = AV Limit (dBµV) AV Value (dBµV)





4.2. 20dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 6.9.2
	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from
	exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
	f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the
Procedure:	reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible
	to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

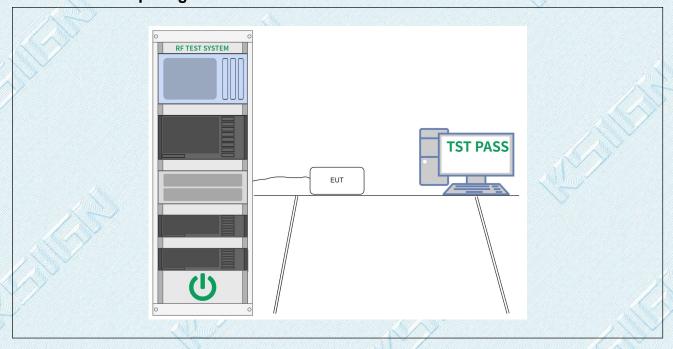




4.2.1. E.U.T. Operation:

Operating Environment:	
Temperature:	23.4 °C
Humidity:	53.4 %
Atmospheric Pressure:	101 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6, Test Mode7, Test Mode8, Test Mode9, Test Mode10, Test Mode11, Test Mode12, Test Mode13, Test Mode14, Test Mode15, Test Mode16, Test Mode17, Test Mode18, Test Mode19, Test Mode20, Test Mode21, Test Mode22, Test Mode23, Test Mode24

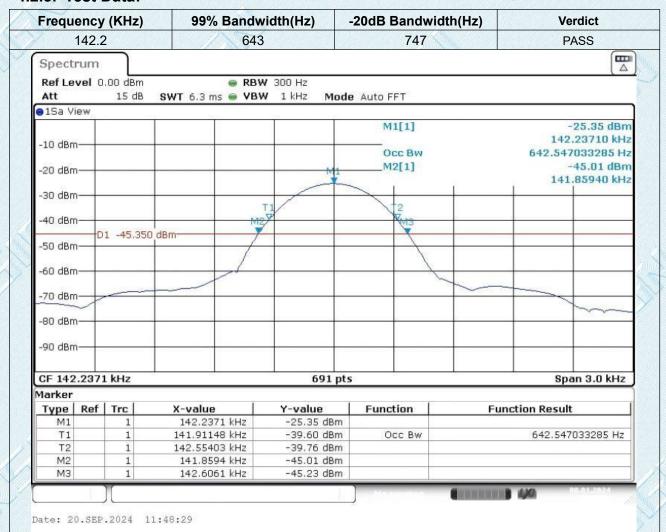
4.2.2. Test Setup Diagram:





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4.2.3. Test Data:





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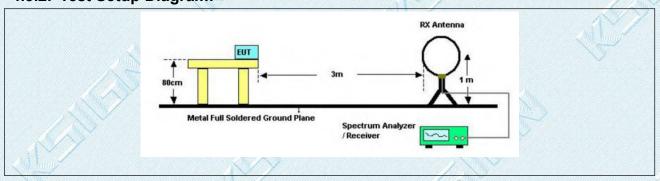
4.3. Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
N.	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
24	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	The emission limits shown employing a CISPR qualified kHz, 110–490 kHz and atthree bands are based of As shown in § 15.35(b), limits in paragraphs (a) at However, the peak field permitted average limits condition of modulation.	ove, the tighter limit applies at the wn in the above table are based asi-peak detector except for the flabove 1000 MHz. Radiated emission measurements employing an for frequencies above 1000 MH and (b)of this section are based astrength of any emission shall not except specified above by more than 2 For point-to-point operation underength shall not exceed 2500 m	on measurements frequency bands 9–90 ssion limits in these average detector. Iz, the field strength on average limits. ot exceed the maximun 20 dB under any der paragraph (b)of this
Test Method:	ANSI C63.10-2013 sect	ion 6.4	
Procedure:	ANSI C63.10-2013 sect	ion 6.4	283

4.3.1. E.U.T. Operation:

Operating Environment:	
Temperature:	23.4 °C
Humidity:	53.4 %
Atmospheric Pressure:	101 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6, Test Mode7, Test Mode8, Test Mode9, Test Mode10, Test Mode11, Test Mode12, Test Mode13, Test Mode14, Test Mode15, Test Mode16, Test Mode17, Test Mode18, Test Mode19, Test Mode20, Test Mode21, Test Mode22, Test Mode23, Test Mode24

4.3.2. Test Setup Diagram:



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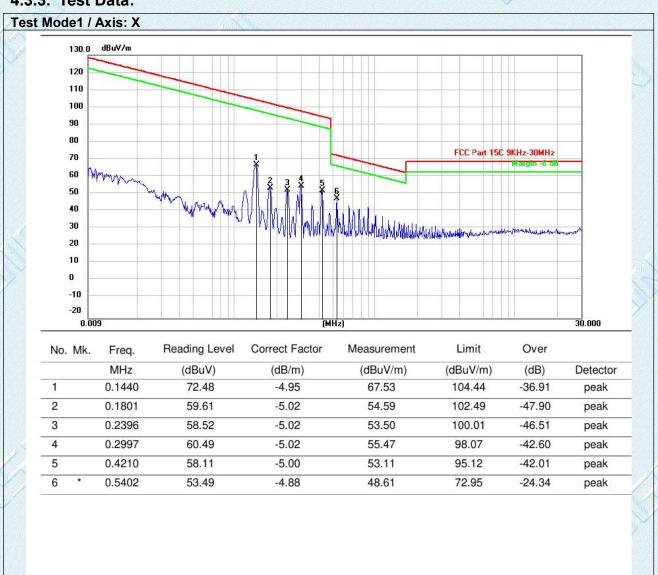
Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

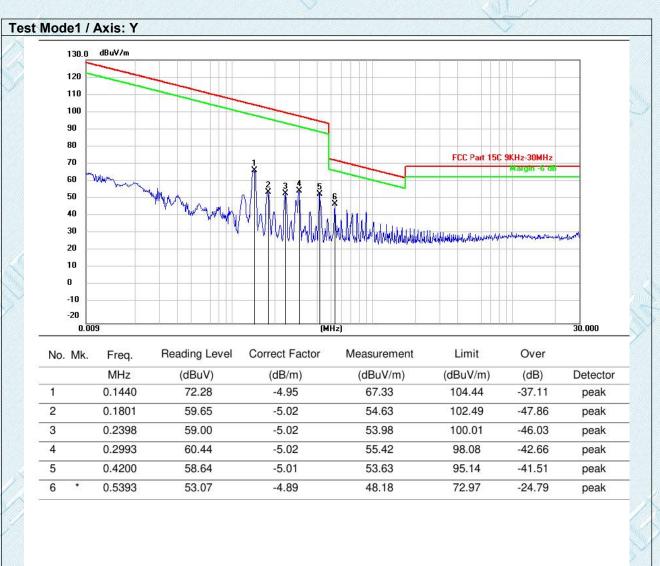




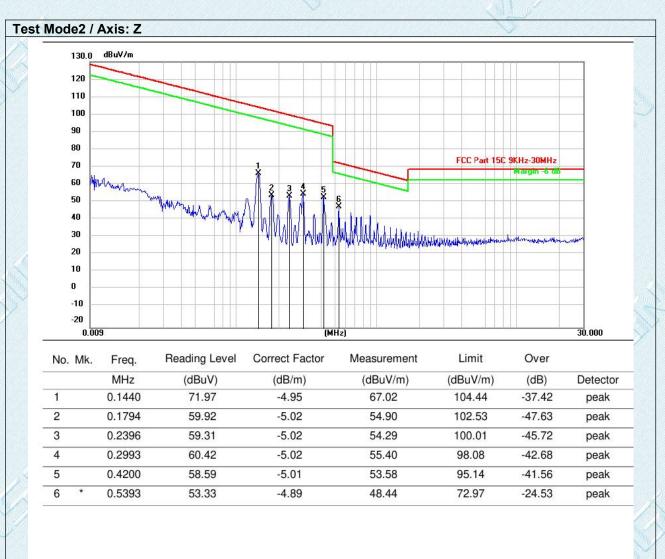
4.3.3. Test Data:











Note:

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor



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4.4. Emissions in frequency bands (30MHz - 1GHz)

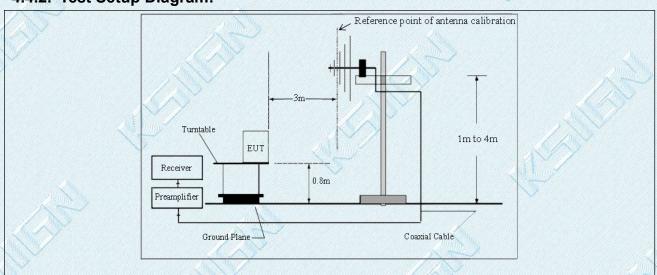
Test Requirement:	47 CFR Part 15.209		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
_ / M. 1	1.705-30.0	30	30
75	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
N .	Above 960	500	3
Test Limit:	operation within these frequent, e.g., §§ 15.231 and 18 In the emission table above The emission limits shown employing a CISPR quasi-limits, 110–490 kHz and about three bands are based on the As shown in § 15.35(b), for limits in paragraphs (a) and However, the peak field strepermitted average limits specondition of modulation. For	e, the tighter limit applies at the in the above table are based of the peak detector except for the frozen 1000 MHz. Radiated emission easurements employing an afrequencies above 1000 MHz (b) of this section are based of the ength of any emission shall no ecified above by more than 20 or point-to-point operation under the peak of the ength shall not exceed 2500 miles.	er other sections of this e band edges. on measurements equency bands 9–90 sion limits in these everage detector. e, the field strength n average limits. t exceed the maximum of dB under any er paragraph (b)of this
Test Method:	ANSI C63.10-2013 section	6.5	
Procedure:	ANSI C63.10-2013 section	6.5	

4.4.1. E.U.T. Operation:

Operating Environment:	
Temperature:	23.4 °C
Humidity:	53.4 %
Atmospheric Pressure:	101 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6, Test Mode7, Test Mode8, Test Mode9, Test Mode10, Test Mode11, Test Mode12, Test Mode13, Test Mode14, Test Mode15, Test Mode16, Test Mode17, Test Mode18, Test Mode19, Test Mode20, Test Mode21, Test Mode22, Test Mode23, Test Mode24



4.4.2. Test Setup Diagram:



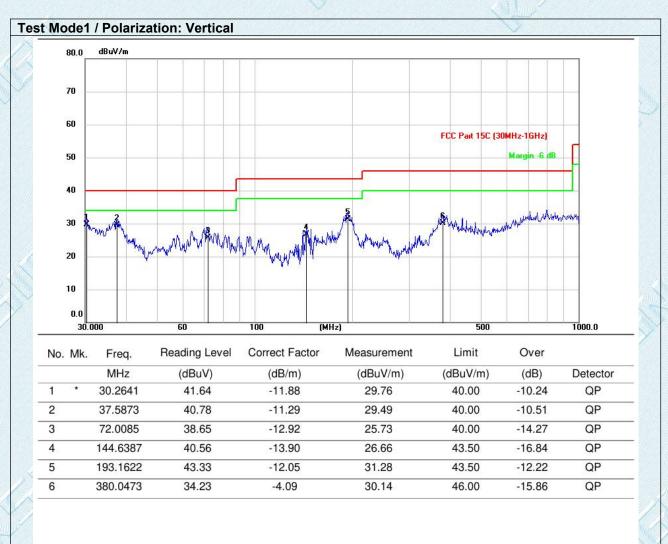




4.4.3. Test Data:







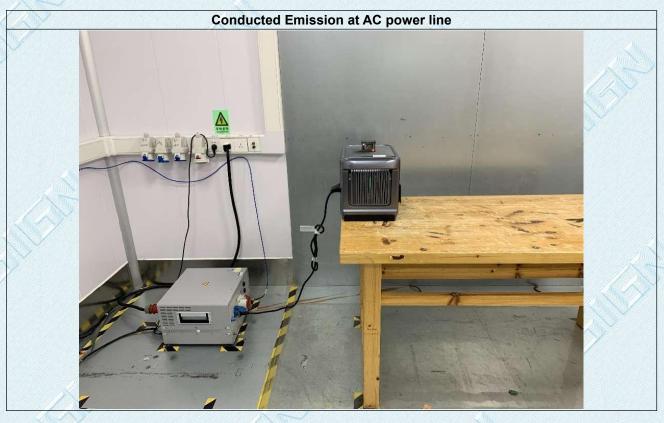
Note:

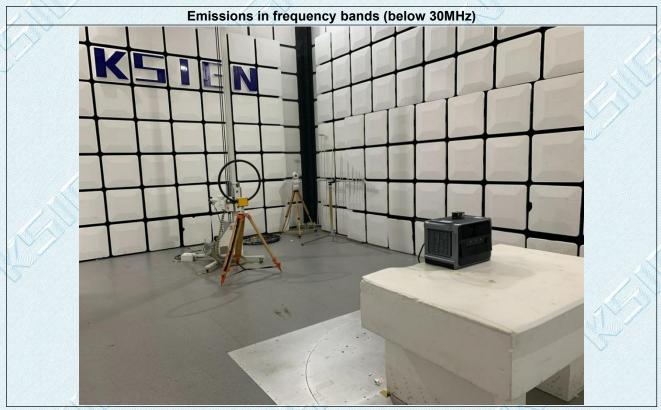
- 1). Level (dB μ V/m)= Reading (dB μ V)+ Factor (dB/m)
- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m)





5. EUT TEST PHOTOS













6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Refer to Appendix - EUT Photos for KS2408S3616E.docx

--THE END-

TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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Important Notice

- The results are valid only for the samples submitted.
- The report is invalid without the "APPROVED Seal" and the "Riding Seam Seal". 2.
- This report is invalid without the signature of the main inspector, reviewer, or
- The testing report cannot be partially copied without the written consent of our 4. laboratory.
- 5. If the report is not stamped with the "CMA" logo, it indicates that the report does not have any social certification effect in China.
- 6. Product information, customer information, and sample sources are all provided by the client, and we are not responsible for their authenticity.
- The inspection basis or inspection items marked with "★" are not within the scope of CNAS, CMA and A2LA accreditation in this laboratory.
- Reports that are transferred, copied, stolen, impersonated, altered, or tampered with in any media form without authorization are invalid.
- If you have any objections to this report, you can appeal to our unit within 15 days after receiving the report. Failure to do so will not be accepted.
- 10. For situations where compliance decision needs to be made based on test result, such as when there are no relevant decision rules required by the regulations, standards, or technical specifications used, or when there are no relevant customer requirements, the report issued by our laboratory refer to ILAC-G8:09-2019 and CNAS-GL015:2022 using simple acceptance decision rules.

Laboratory: KSIGN(Guangdong) Testing Co., Ltd.

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