	之汉J CHNOLOGY					
	TEST REPO	RT				
FCC ID	2AQRG-W23					
Test Report No::	TCT220221E042					
Date of issue:	Mar. 01, 2022					
Testing laboratory: :	SHENZHEN TONGCE TEST	TING LAB				
Testing location/ address:		Fuqiao 5th Industrial Zone, Fuhai chen, Guangdong, 518103, People's				
Applicant's name: :	Shenzhen Feihe Electronics	Co., Ltd				
Address::		3/F, Bldg 3, HongFa Innovative Park, HuangMaBu Community, Baoan District, Shenzhen, 518101 China				
Manufacturer's name :	Shenzhen Feihe Electronics	Co., Ltd				
Address:	3/F, Bldg 3, HongFa Innovati Baoan District, Shenzhen, 5 ⁴	ive Park, HuangMaBu Community, 18101 China				
Standard(s):	FCC CFR Title 47 Part 15 St	ubpart C				
Test item description :	LED table lamp					
Trade Mark:	N/A					
Model/Type reference :	W23					
Rating(s):	Adapter Information: Model: GQ12-120100-AU Input: AC 100-240V, 50/60H Output: DC 12.0V, 1.0A	z, 0.4A Max				
Date of receipt of test item	Feb. 21, 2022	3				
Date (s) of performance of test:	Feb. 21, 2022 - Mar. 01, 2022					
Tested by (+signature) :	Rieo LIU					
Check by (+signature) :	Beryl ZHAO	BoyComPCT				
Approved by (+signature):	Tomsin	Jomsne st				

General disclaimer:

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TCT 通测检测 TESTING CENTRE TECHNOLOGY

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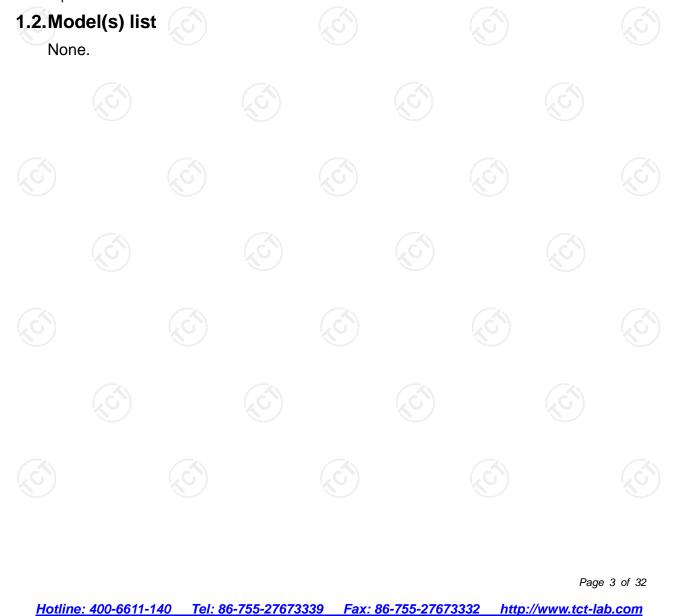


1. General Product Information

1.1.EUT description

Test item description:	LED table lamp		
Model/Type reference:	W23		
Sample Number	TCT220221E042-0101		
Operation Frequency:	112.50kHz-179.17kHz	S)	
Modulation Technology:	Load modulation		
Antenna Type:	Inductive loop coil Antenna		$\left(\begin{array}{c} \\ \\ \\ \end{array} \right)$
Rating(s):	Adapter Information: Model: GQ12-120100-AU Input: AC 100-240V, 50/60Hz, 0.4A Max Output: DC 12.0V, 1.0A		

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.



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2. Test Result Summary

Requiren	nent		CFR 47 S	ection		Result	
Antenna requirement			§15.20	03		PASS	
AC Power Line Emissio			§15.207			PASS	
Spurious Er	nission		§15.209	(a)(f)		PASS	
Note: 1. PASS: Test item 2. Fail: Test item do							
3. N/A: Test case d 4. The test result ju	oes not apply to	o the test obje	ect.	rd.			
						Page	e 4 of 32

3. General Information

3.1. Test environment and mode

Operating Environment:

Condition	Conducted Emission	Radiated Emission		
Temperature:	25 °C	25.1 °C		
Humidity:	55 % RH	50 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		
Test Mode:				

Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting.

The sample was placed 0.8m for the measurement below above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Ī	Equipment	Model No.	Serial No.	FCC ID	Trade Name	
	Mobile Phone	SM-G9350	R28HA2ER3GT	/	SAMSUNG	

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended

use.



4. Facilities and Accreditations

4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

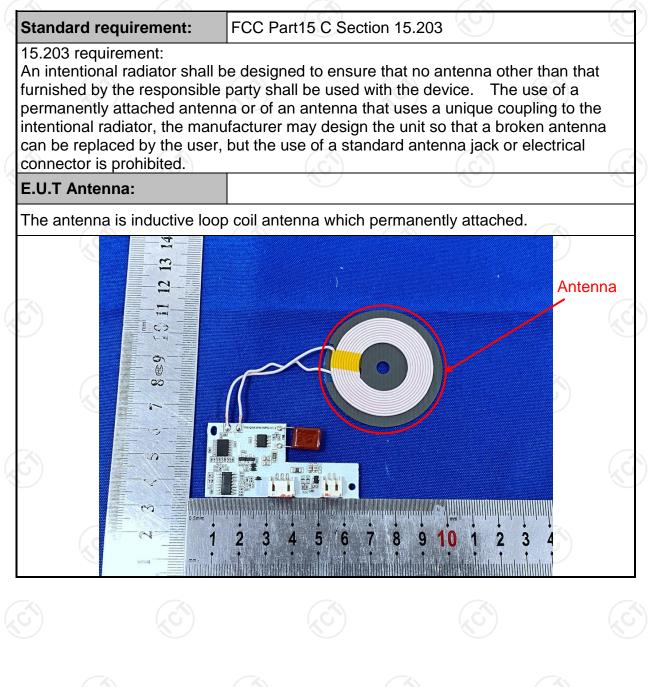
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	🕙 ± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB



5. Test Results and Measurement Data

5.1. Antenna requirement



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5.2. Conducted Emission

5.2.1. Test Specification

 Test Procedure: Test Procedure: a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the ma power through a LISN that provides a 500hm/50u coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup ar photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all or power and all or power the photographe in the setup of the test setup ar photographe interference. 	.z.i. rest specification						
Frequency Range: 150 kHz to 30 MHz Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto Limits: Frequency range Limit (dBuV) 0.15-0.5 66 to 56° 56 to 46° 0.5-5 56 46 5-30 60 50 Reference Plane Fermark E.U.T Adapter Filter Ac powe Remark E.U.T Adapter Fertaw E.U.T Adapter ENN Receiver	Test Requirement:	FCC Part15 C Section	15.207	No.			
Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto Limits:	Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Limits: Frequency range (MHz) Limit (dBuV) (Quasi-peak 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 Reference Plane E.U.T Adapter Filter Test Setup: E.U.T Adapter Remark: EUT Equipment Under Test EMI LINN transmitting Mode 1. The E.U.T is connected to an adapter through a lining pedance stabilization network (L.I.S.N.). The provides a 500hm/500H coupling impedance for the measuring equipment. Test Procedure: 2. The peripheral devices are also connected to the ma power through a LISN that provides a 500hm/500H coupling impedance for the measuring equipment. 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10: 2013 on conducted measurement.	Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz				
Limits: (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 Reference Plane Image: Colspan="2">Image: Colspan="2">Colspan="2" Test Setup: Test Mode: Transmitting Mode 1. The E.U.T is connected to an adapter through a lining colspan="2">Impediance stabilization network (L.I.S.N.). The provides a 500hm/50UH coupling impedance for the measuring equipment. Test Procedure: Colspan="2" <td>Receiver setup:</td> <td>RBW=9 kHz, VBW=30</td> <td>) kHz, Sweep time</td> <td>e=auto</td>	Receiver setup:	RBW=9 kHz, VBW=30) kHz, Sweep time	e=auto			
Imits:		Frequency range	Limit (dBuV)			
Limits: 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 Reference Plane 40cm 80cm Filter Adapter EUT Adapter Test Setup: E.U.T Adapter EUT Adapter EN Vest table/Insulation plane Feiting EN Remark: EUT Estable/Insulation plane EN Remark: EUT Estable/Insulation plane EN Remark: EUT Estable/Insulation plane EN Remark: EUT Estable/Insulation Network Test table/Insulation Network Test Mode: Transmitting Mode 1. The E.U.T is connected to an adapter through a line Impedance stabilization network (L.I.S.N.). The provides a 500hm/50UH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the ma power through a LISN that provides a 500hm/50u coupling impedance with 500hm termination. (Pleas refer to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interf			· · · · · · · · · · · · · · · · · · ·				
0.5-5 56 46 5-30 60 50 Reference Plane Image: Colspan="2">Image: Colspan="2" Colspan=	Limits:						
Test Setup: Reference Plane Image: Test Setup: Image: Test table/Insulation plane Remark: EU.T EU.T Adapter Test Mode: Transmitting Mode 1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). The provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the map over through a LISN that provides a 500hm/50uH coupling impedance for the ploted devices are also connected to the map over through a LISN that provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the map over through a LISN that provides a 500hm/50uH coupling impedance for the measuring equipment. 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10: 2013 on conducted measurement.		0.5-5	56	46			
Test Setup: Image: Constraint of the set o		5-30	60	50			
Test Setup: Image: Filter and particular test table/Insulation plane State and plane Remark: EUT Equipment Under Test EMI Receiver I.SN Line Impedence Stabilization Network Test Mode: Transmitting Mode 1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). The provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the ma power through a LISN that provides a 500hm/50u coupling impedance with 500hm termination. (Pleas refer to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10: 2013 on conducted measurement.		Refere	nce Plane				
 Test Procedure: Test Procedure: Test Procedure: The peripheral devices are also connected to the map ower through a LISN that provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the map ower through a LISN that provides a 500hm/50u coupling impedance with 500hm termination. (Pleas refer to the block diagram of the test setup ar photographs). Both sides of A.C. line are checked for maximum emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10: 2013 on conducted measurement. 	Test Setup:	Test table/Insulation pla Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization	ne				
 Test Procedure: impedance stabilization network (L.I.S.N.). The provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the man power through a LISN that provides a 50ohm/50u coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup are photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10: 2013 on conducted measurement. 	Test Mode:	Transmitting Mode					
	Test Procedure:	 impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum emission, the relative positions of equipment and all o the interface cables must be changed according to the setup. 					
		ANSI C63 10: 2013	on conducted me	asurement 🧹			

5.2.2. Test Instruments

(Conducted Emission Shielding Room Test Site (843)						
Ň	Equipment	Manufacturer	Model	Serial Number	Calibration Due		
	EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022		
	Line Impedance Stabilisation Newtork(LISN)		NSLK 8126	8126453	Mar. 11, 2022		
(Line-5	тст	CE-05	N/A	Jul. 07, 2022		
N	EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		











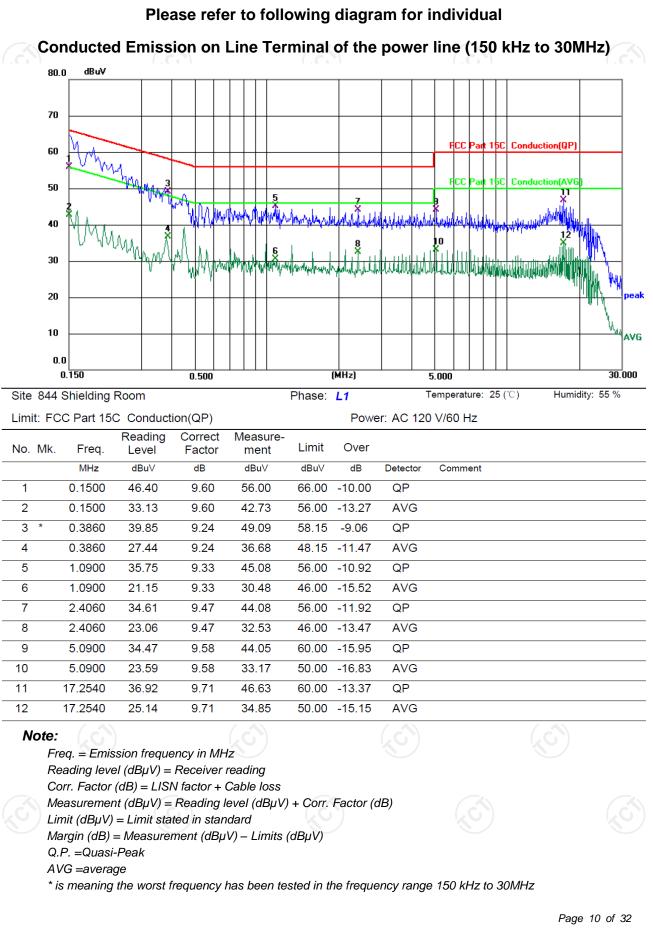


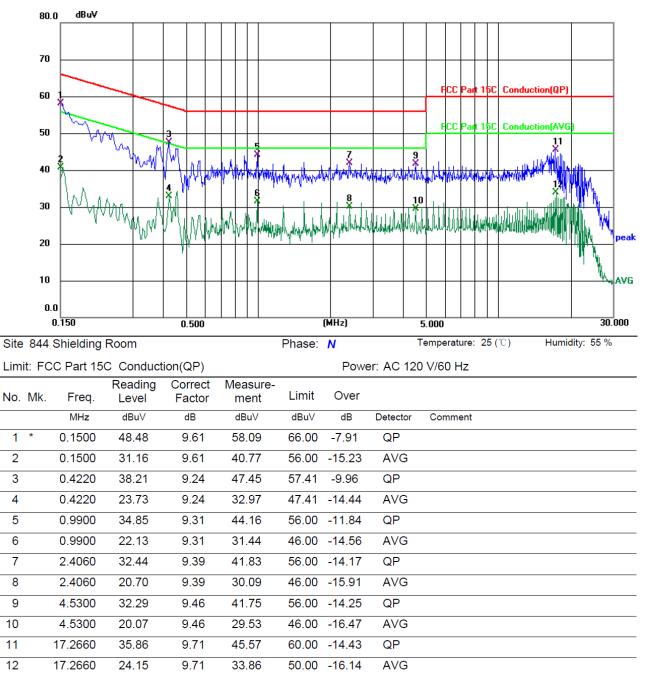


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5.2.3. Test data

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Note:

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> Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

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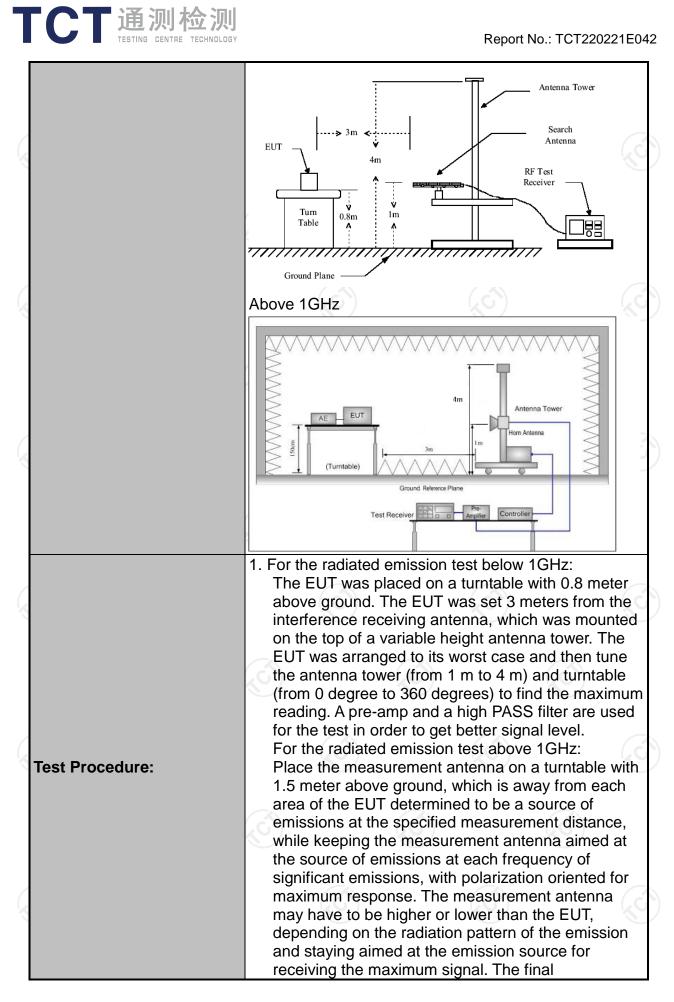


5.3.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

FCC Part15 C Section 15.209					
ANSI C63.10: 2013					
9 kHz to 25 (GHz				
3 m	N.	9			
Horizontal &	Vertical				
Refer to item	n 3.1	()	<u>(</u> ()		
Frequency	Detector	RBW	VBW	Remark	
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	
150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	
Above 1GHz	Peak	1MHz	3MHz	Peak Value	
	Peak	1MHz	10Hz	Average Value	
Frequen	icy			Measurement	
		,	,	Distance (meters)	
				300	
				30	
30-88		100		3	
88-216		150		3	
216-96	0	200		3	
Above 960 500				3	
				K	
		crovolts/meter)		nce Detector	
C About 4CL	_ (,	500	3	Average	
Above 1GHz		5000 3		Peak	
Di	Turn table		Pre -	Computer Amplifier Receiver	
30MHz to 10					
	ANSI C63.10 9 kHz to 25 0 3 m Horizontal & Refer to item Frequency 9kHz- 150kHz 150kHz- 30MHz-1GHz Above 1GHz Frequency 0.009-0.4 0.490-1.1 1.705-3 30-88 88-210 216-96 Above 9 Frequency Above 1GHz Frequency 0.09-0.4 0.490-1.1 1.705-3 30-88 88-210 216-96 Above 9 Frequency Above 1GHz	ANSI C63.10: 2013 9 kHz to 25 GHz 3 m Horizontal & Vertical Refer to item 3.1	ANSI C63.10: 2013 9 kHz to 25 GHz 3 m Horizontal & Vertical Refer to item 3.1 Frequency Detector RBW 9kHz-150kHz Quasi-peak 200Hz 150kHz-Quasi-peak 9kHz 30MHz 30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz Peak 1MHz Frequency Field Strate 0.009-0.490 2400/F(0.490-1.705 0.009-0.490 2400/F(0.490-1.705 1.705-30 30 30-88 100 88-216 150 216-960 200 Above 960 500 Frequency Field Strength (microvolts/meter) Above 1GHz 500 5000 5000	ANSI C63.10: 2013 9 kHz to 25 GHz 3 m Horizontal & Vertical Refer to item 3.1	

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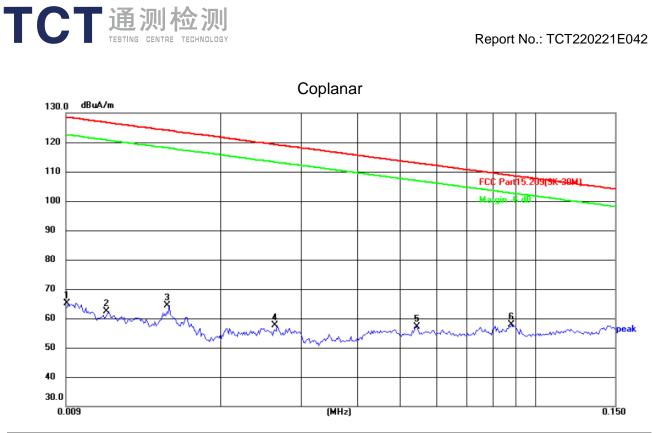
ГСТ 通测检测 TESTING CENTRE TECHNOLOGY	Report No.: TCT220221E042
	 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission
	 measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;
	 (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement.
	For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 3.1 for details
Test results:	PASS (C) (C)

5.3.2. Test Instruments

	Radiated En	nission Test Site	e (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022	
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022	
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Mar. 11, 2022	
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Apr. 08, 2022	
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022	
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022	
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022	
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023	
Antenna Mast	Keleto	RE-AM	N/A	N/A	
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022	
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022	
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

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Site					Polariz	ation:	Coplan	ar	Temperature: 25(°C)
Limit: FCC Part15.209(9K-30M)					Power: AC 120 V60Hz				Humidity: 55 %
No.	Frequency (MHz)	Reading (dBuA)	Factor (dB/m)	Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Detector	P/F	Remark
1	0.0091	40.49	24.75	65.24	128.42	-63.18	peak	Ρ	
2	0.0111	39.11	23.26	62.37	126.70	-64.33	peak	Ρ	
3	0.0151	43.22	21.14	64.36	124.03	-59.67	peak	Ρ	
4	0.0263	38.62	18.96	57.58	119.21	-61.63	peak	Ρ	
5	0.0543	36.29	20.84	57.13	112.91	-55.78	peak	Ρ	
6 *	0.0883	34.71	23.16	57.87	108.69	-50.82	peak	Ρ	

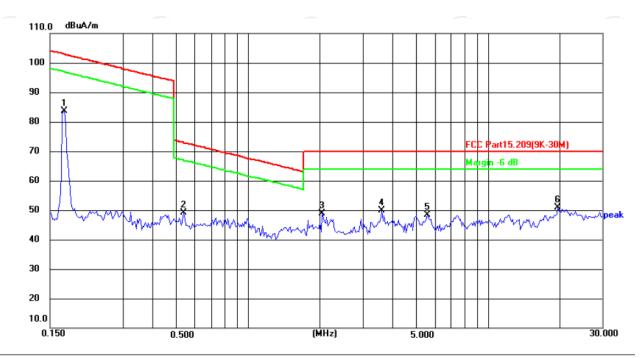


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150KHz-30MHz:

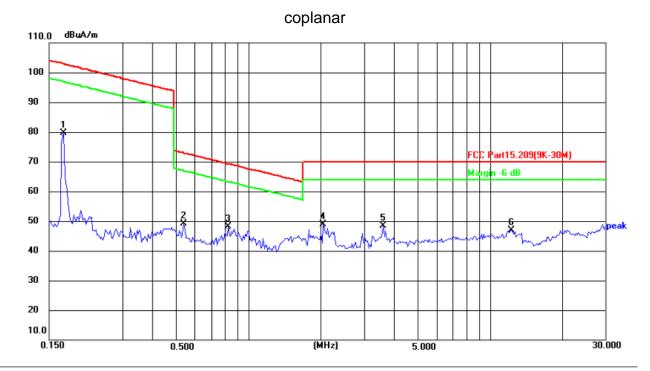
coaxial



Site					Polari	zation:	Coaxia	al	Temperature: 25(°C)
Limit: FCC Part15.209(9K-30M)					Powe	r: AC	120 V60H	z	Humidity: 55 %
No.	Frequency (MHz)	Reading (dBuA)	Factor (dB/m)	Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Detector	P/F	Remark
1 *	0.1720	57.13	26.53	83.66	102.89	-19.23	peak	Ρ	
2	0.5421	22.51	26.52	49.03	72.92	-23.89	peak	Ρ	
3	2.0438	19.58	29.24	48.82	70.00	-21.18	peak	Ρ	
4	3.6263	17.53	32.32	49.85	70.00	-20.15	peak	Р	
5	5.6044	12.11	36.36	48.47	70.00	-21.53	peak	Ρ	
6	19.6187	25.16	25.60	50.76	70.00	-19.24	peak	Ρ	
				()					

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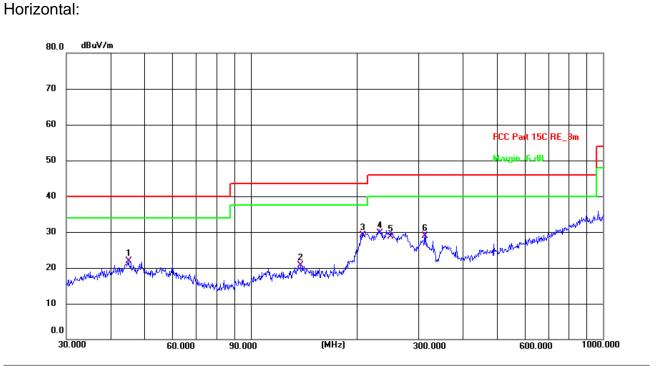
TCT通测检测 TESTING CENTRE TECHNOLOGY

Site Limit:	FCC Part15.2	09(9K-30N	A)		Polari Powei	<mark>zation</mark> : r: AC	Copla 120 V60H		Temperature: 25(℃) Humidity: 55 %
No.	Frequency (MHz)	Reading (dBuA)	Factor (dB/m)	Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Detector	P/F	Remark
1	0.1720	53.13	26.53	79.66	102.89	-23.23	peak	Ρ	
2	0.5421	22.51	26.52	49.03	72.92	-23.89	peak	Ρ	
3 *	0.8286	21.02	27.11	48.13	69.25	-21.12	peak	Ρ	
4	2.0438	19.58	29.24	48.82	70.00	-21.18	peak	Ρ	
5	3.6263	16.03	32.32	48.35	70.00	-21.65	peak	Ρ	
6	12.2963	20.99	25.84	46.83	70.00	-23.17	peak	Ρ	

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30MHz-1GHz



Site #2 3m Anechoic Chamber			Polarization: Horizontal				Te	emperature: 25.1(C) Humidity: 50 %	
Limit:	FCC Part 150	CRE_3m							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	45.0583	8.03	13.89	21.92	40.00	-18.08	QP	Ρ	
2	138.3873	7.65	13.13	20.78	43.50	-22.72	QP	Р	
3 *	207.8501	18.47	10.73	29.20	43.50	-14.30	QP	Ρ	
4	231.7179	17.58	12.22	29.80	46.00	-16.20	QP	Ρ	
5	249.4250	16.03	12.67	28.70	46.00	-17.30	QP	Ρ	
6	312.1794	14.73	14.17	28.90	46.00	-17.10	QP	Ρ	

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dBuV/m 80.0 70 60 FCC Part 15C RE 50 40 ÷ 30 why. Month manuth 20 10 0.0 30.000 (MHz) 1000.000 60.000 90.000 300.000 600.000

Temperature: 25.1(C) Humidity: 50 % Site #2 3m Anechoic Chamber Polarization: Vertical Limit: FCC Part 15C RE_3m Power: AC 120 V/60 Hz Frequency Reading Factor Level Limit Margin Detector P/F No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 44.9006 1 * 22.21 13.89 36.10 40.00 -3.90 QP Ρ 49.1865 18.72 13.78 32.50 40.00 -7.50 Ρ 2 QP 58.6126 18.67 13.23 31.90 40.00 -8.10 3 QP Ρ 95.4270 17.84 9.86 27.70 43.50 -15.80 QP Ρ 4 5 114.5146 18.27 11.53 29.80 43.50 -13.70 QP Ρ 213.7634 6 22.52 11.08 33.60 43.50 -9.90 QP Ρ

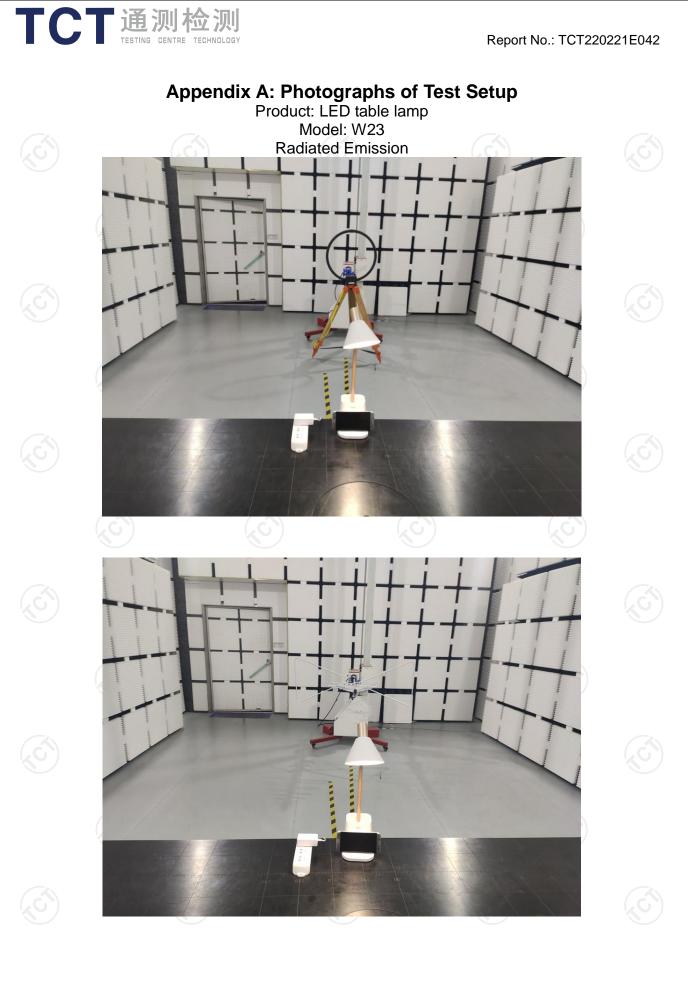
Note:

Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

Vertical:

TCT 通测检测 TESTING CENTRE TECHNOLOGY

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