	达 现J						
	TEST REPOR	Т					
FCC ID :	2AFW2-DF007						
Test Report No:	TCT240830E014						
Date of issue:	Oct. 14, 2024						
Testing laboratory::	SHENZHEN TONGCE TESTING	S LAB					
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China						
Applicant's name: :	Shenzhen DZH Industrial Co., Ltd						
Address:	3th Floor, YiTuo Mike Industrial A building, Bu Yong Industrial D zone, ShaJing, Shenzhen, China						
Manufacturer's name :	Shenzhen DZH Industrial Co., LTD						
Address:	3rd Floor, YiTuo Mike Industrial A building, Bu Yong Industrial D zone, Shajing street, Baoan district, Shenzhen, China						
Standard(s):	FCC CFR Title 47 Part 15 Subpart C Section 15.249 ANSI C63.10:2013						
Product Name::	Bluetooth Keyboard						
Trade Mark:	N/A						
Model/Type reference :	DF007						
Rating(s):	Rechargeable Li-ion Battery DC	3.7V					
Date of receipt of test item	Aug. 30, 2024						
Date (s) of performance of test:	Aug. 30, 2024 ~ Oct. 14, 2024						
Tested by (+signature) :	Aaron MO	Aaron Aborger					
Check by (+signature) :	Beryl ZHAO	Boy ZETCT					
Approved by (+signature):	Tomsin	Toms is si					
General disclaimer: This report shall not be repr	oduced except in full, without the	written approval of SHENZHEN					

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1. General Product Information

1.1. EUT description

Product Name:	Bluetooth Keyboard			
Model/Type reference:	DF007			No.
Sample Number	TCT240830E013-0101			
Operation Frequency:	2402MHz~2480MHz			
Channel Separation:	1MHz			
Number of Channel:	79	(\mathbf{c})		
Modulation Technology:	GFSK			
Antenna Type:	Chip Antenna			
Antenna Gain:	1.5dBi		No.	
Rating(s):	Rechargeable Li-ion Battery DC	3.7V		

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

1.2. Model(s) list

 None.
 Image: Comparison of the second s

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1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
G`)1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
6 8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Kemark: Unannel U, 39 & 78 have been tested.



2. Test Result Summary

Requirement	CFR 47 Section	Result		
Antenna Requirement	§15.203	PASS		
AC Power Line Conducted Emission	§15.207	PASS		
Field Strength of Fundamental	§15.249 (a)	PASS		
Spurious Emissions	§15.249 (a) (d)/ §15.209	PASS		
Band Edge	§15.249 (d)/ §15.205	PASS		
20dB Occupied Bandwidth	§15.215 (c)	PASS		

Note:

- 1. Pass: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test Environment and Mode

Operating Environment:		
Condition	Radiated Emission	
Temperature:	24.3 °C	25.3 °C
Humidity:	52 % RH	52 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar

Test Mode:

Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery.

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Notebook Computer	G3 3500	00342-36088-99832- AAOEM	/	DELL
Power Supply	HA130PM190	CN-0CY0JM-CH200- 0B6-7405-A01	1	DELL
C (1)	$(\cdot \mathbf{C})$			

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.

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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
 - SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2.Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

4.3. Measurement Uncertainty

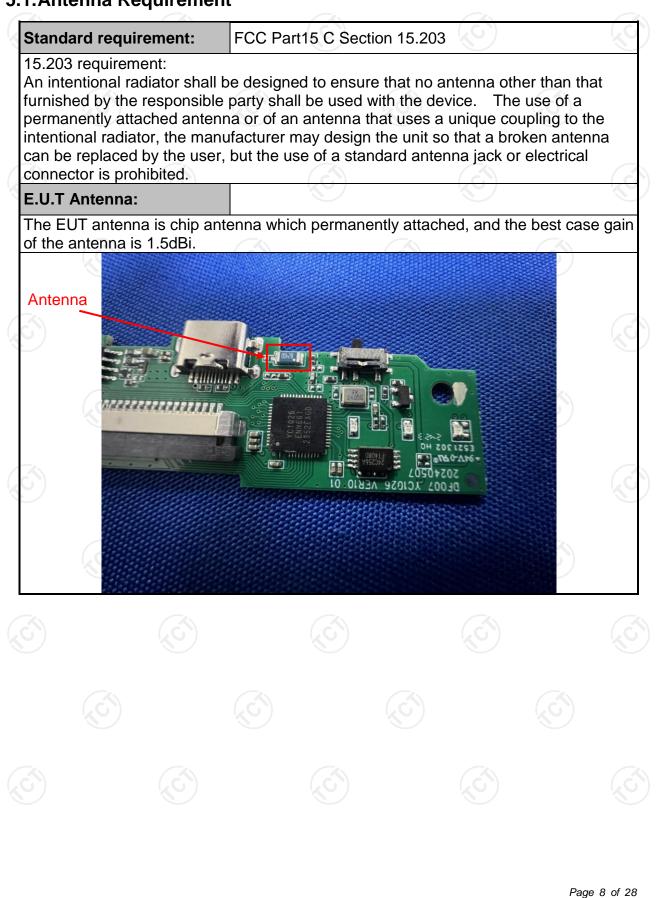
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz	(C)	(\mathbf{c})				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
	Frequency range	Limit (dBuV)				
	(MHz)	Quasi-peak	Áverage				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Reference	e Plane					
Test Setup:	40cm E.U.T AC power B 0cm LISN Filter AC power Filter AC power EMI Remark <i>E.U.T</i> : Equipment Under Test <i>LISN</i> : Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	Charging + Transmittin	<u> </u>					
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 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). Both sides of A.C. line are checked for maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 						

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5.2.2. Test Instruments

nufacturer R&S	Model ESCI3 NSLK 8126	Serial Number 100898	Calibration Due Jun. 26, 2025	
			,	
warzbeck	NSI K 8126	0400450		
LISN Schwarzbeck		8126453	Jan. 31, 2025	
N/A	10dB	164080	Jun. 26, 2025	
ТСТ	CE-05	/	Jun. 26, 2025	
	EMEC-3A1	1.1.4.2	1	
		Z EMC EMEC-3A1		



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5.2.3. Test data

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Please refer to following diagram for individual Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz) dBu¥ 80.0 70 Conduction(QP) 60 Conduction(AVG CС 50 40 30 20 10 AVG 0 -10 0.150 0.500 (MHz) 30.000 5.000 Site 844 Shielding Room Temperature: 24.3 (°C) Humidity: 52 %

Limit: FCC Part 15C Conduction(QP)

Phase: L1 Temperature: 24.3 (7) Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

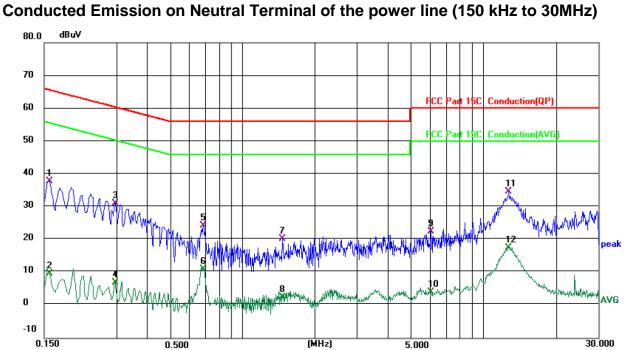
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1580	28.05	9.67	37.72	65.57	-27.85	QP	
2		0.1580	0.86	9.67	10.53	55.57	-45.04	AVG	
3		0.2540	23.79	9.66	33.45	61.63	-28.18	QP	
4		0.2540	-2.70	9.66	6.96	51.63	-44.67	AVG	
5		0.6860	18.18	10.38	28.56	56.00	-27.44	QP	
6		0.6860	3.77	10.38	14.15	46.00	-31.85	AVG	
7		2.1980	14.78	9.87	24.65	56.00	-31.35	QP	
8		2.1980	-5.42	9.87	4.45	46.00	-41.55	AVG	
9		4.0939	15.84	10.09	25.93	56.00	-30.07	QP	
10		4.0939	-4.80	10.09	5.29	46.00	-40.71	AVG	
11	*	12.4180	23.09	10.30	33.39	60.00	-26.61	QP	
12		12.4180	8.09	10.30	18.39	50.00	-31.61	AVG	

Note:

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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Site 844 Shielding Room Phase: N Temperature: 24.3 (°C)

Limit: FC	C Part 15	ion(QP)		put AC 120 V/60 Hz)				
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1580	28.27	9.65	37.92	65.57	-27.65	QP	
2	0.1580	0.15	9.65	9.80	55.57	-45.77	AVG	
3	0.2939	21.44	9.64	31.08	60.41	-29.33	QP	
4	0.2939	-2.64	9.64	7.00	50.41	-43.41	AVG	
5	0.6860	13.86	10.35	24.21	56.00	-31.79	QP	
6	0.6860	0.59	10.35	10.94	46.00	-35.06	AVG	
7	1.4700	10.41	9.75	20.16	56.00	-35.84	QP	
8	1.4700	-7.17	9.75	2.58	46.00	-43.42	AVG	
9	6.0700	12.38	10.17	22.55	60.00	-37.45	QP	
10	6.0700	-6.08	10.17	4.09	50.00	-45.91	AVG	
11 *	12.7700	24.37	10.27	34.64	60.00	-25.36	QP	
12	12.7700	7.26	10.27	17.53	50.00	-32.47	AVG	

Note:

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 μ V) = Limit stated in standard	
Margin (dB) = Measurement (dB μ V) – Limits (dB μ 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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Humidity: 52 %

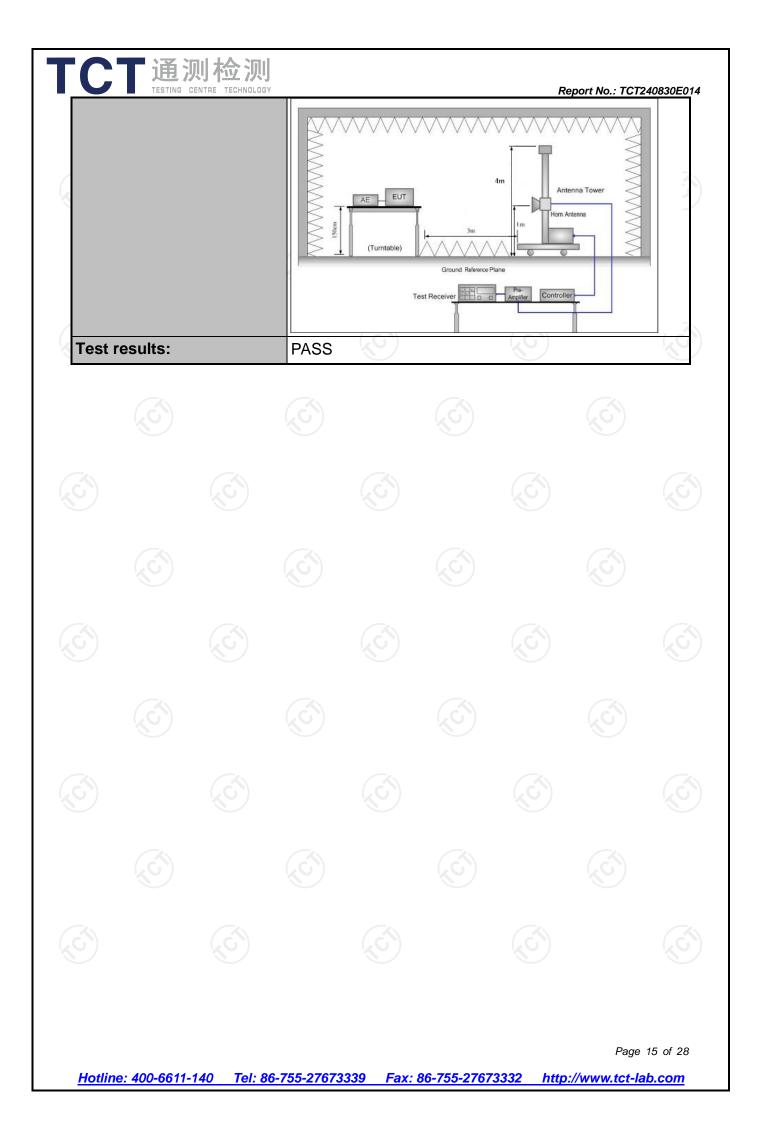
5.3. Radiated Emission Measurement

5.3.1. Test Specification

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Test Requirement:	FCC Part18	5 C Section	n 15.209		(C			
Test Method:	ANSI C63.1	0:2013						
Frequency Range:	9 kHz to 25	GHz						
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal & Vertical							
	Frequency	Detector	RBW	VBW	Remark			
Receiver Setup:	<u>9kHz- 150kHz</u> 150kHz- 30MHz	Quasi-peak Quasi-peak	200Hz 9kHz	1kHz 30kHz	Quasi-peak Value Quasi-peak Value			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Above IGHZ	Peak	1MHz	10Hz	Average Value			
Limit(Field strength of the	Freque	ency	Limit (dBu	√/m @3m)	Remark			
fundamental signal):	2400MHz-24	183 5MH-7	94.	00	Average Value			
Tunuamentai Signai).	240010112-24	405.5101172	114	.00	Peak Value			
	Freque	ency	Limit (dBu	V/m @3m)	Remark			
	0.009-0	0.490	2400/F(KHz)		Quasi-peak Value			
	0.490-2	1.705	24000/	F(KHz)	Quasi-peak Value			
	1.705	-30	3	0	Quasi-peak Value			
Limit(Spurious Emissions):	30MHz-8	38MHz	40	.0	Quasi-peak Value			
	88MHz-2	16MHz	43	.5	Quasi-peak Value			
	216MHz-9		46	.0	Quasi-peak Value			
	960MHz	-1GHz	54		Quasi-peak Value			
	Above	1GHz	54		Average Value			
Limit (band edge) :	Emissions radiated outside of the specified frequer bands, except for harmonics, shall be attenuated by least 50 dB below the level of the fundamental or to general radiated emission limits in Section 15.2							
Test Procedure:	 whichever is the lesser attenuation. 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make 							

	Report No.: TCT240830E					
	 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 					
	For radiated emissions below 30MHz					
	Distance = 3m Computer Pre - Amplifier Pre - Amplifier Receiver Ground Plane 30MHz to 1GHz					
Test setup:	EUT Turn 0.8m Ground Plane					
	Above 1GHz					
	Above 1GHz (The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)					



5.3.2. Test Instruments

	Radiated Em	nission Test Site	e (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025	
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025	
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025	
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025	
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025	
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025	
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025	
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025	
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025	
Coaxial cable	SKET	RE-03-M	1	Jun. 26, 2025	
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025	
Coaxial cable	SKET	RE-04-D		Jun. 26, 2025	
Coaxial cable	SKET	RE-04-M	R	Jun. 26, 2025	
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025	
Antenna Mast	Keleto	RE-AM	1		
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2		

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.3.3. Test Data

Field Strength of Fundamental

	Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
	2402	76.91	Н	114	-37.09
	2402	78.68	V	114	-35.32
	2441	78.17	н	114	-35.83
	2441	77.67	V	114	-36.33
Ċ	2480	78.32	H	114	-35.68
	2480	81.04	V	114	-32.96

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2402	68.19	Н	94	-25.81
2402	70.23	V	94	-23.77
2441	69.54	Н	94	-24.46
2441	70.51	V	94	-23.49
2480	70.02	н	94	-23.98
2480	72.67	V	94	-21.33

Spurious Emissions

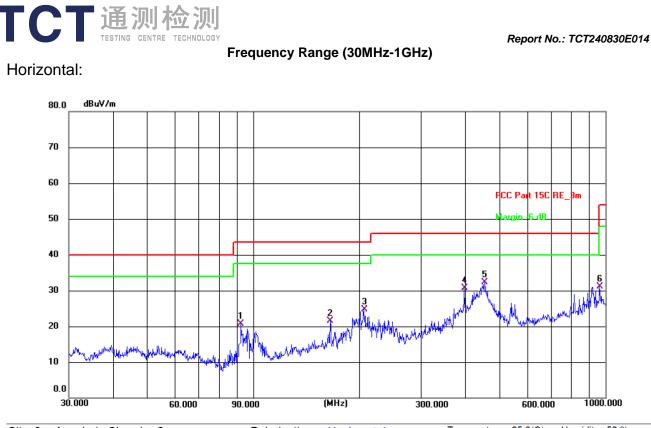
Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3	3m (dBµ	V/m)	Limit@3m (dBµV/m)		
				-		
· · · · ·	· · · ·					

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

3. For fundamental frequency, RBW >20dB BW , VBW>=RBW, PK detector is for PK value, RMS detector is for AV value.



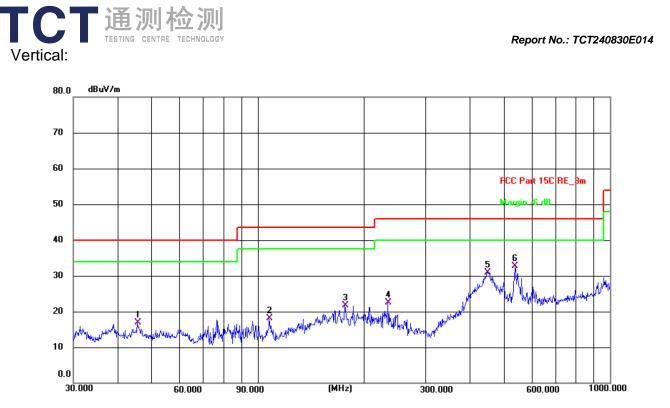
Site 3m Anechoic Chamber2Polarization:HorizontalTemperature: 25.3(C)Humidity: 52 %Limit: FCC Part 15C RE 3mPower: DC 3.7 V

N	D .	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1		92.4624	43.05	-22.37	20.68	43.50	-22.82	QP	Р	
2		165.4866	39.21	-17.64	21.57	43.50	-21.93	QP	Р	
3		206.3976	45.89	-21.14	24.75	43.50	-18.75	QP	Р	
4		397.6334	45.50	-14.83	30.67	46.00	-15.33	QP	Р	
5	*	454.3100	45.64	-13.42	32.22	46.00	-13.78	QP	Ρ	
6		962.1623	35.86	-4.81	31.05	54.00	-22.95	QP	Ρ	



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Site 3m Anechoic Chamber2 Polarization: Vertical Temperature: 25.3(C) Humidity: 52 %

Limit: F	FCC Part 15C R	E_3m			P	ower: D			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	45.5348	35.60	-18.62	16.98	40.00	-23.02	QP	Ρ	
2	107.8877	38.80	-20.65	18.15	43.50	-25.35	QP	Ρ	
3	176.8878	40.50	-18.89	21.61	43.50	-21.89	QP	Ρ	
4	234.1684	42.53	-20.07	22.46	46.00	-23.54	QP	Ρ	
5	447.9822	44.56	-13.58	30.98	46.00	-15.02	QP	Ρ	
6 *	537.5891	44.29	-11.64	32.65	46.00	-13.35	QP	Р	

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (Highest channel) was submitted only.

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	CT		则检测 ENTRE TECHNOL	lj ogy	Abou			R	eport No.: TC	CT240830E01	
	Above 1GHz Low channel: 2402MHz										
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak	n Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
/	4804	Н	56.45		-9.51	46.94		74	54	-7.06	
X	7206	Н	46.09		-1.41	44.68		74	54	-9.32	
					0						
	4804	V	56.81		-9.51	47.30		74	54	-6.70	
	7206	V	46.34		-1.41	44.93	<u></u>	74	54	-9.07	
					/						

	Middle channel: 2441MHz											
Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit	A\/ limit	Margin			
(MHz)	H/V	reading	reading	Factor	Peak	AV	(dBu\//m)	(dBu)//m)	(dB)			
(11112)		(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	AV (dBµV/m)	(ubµ v/m)	(abp v/m)	(UD)			
4882	Н	55.60		-9.36	46.24		74	54	-7.76			
7323	Н	46.17		-1.14	45.03		74	54	-8.97			
					/							
4882	V	57.41		-9.36	48.05		74	54	-5.95			
7323	V	47.96		-1.14	46.82		74	54	-7.18			

(C + 1)												
				High channe								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)			Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4960	Н	57.39		-9.20	48.19		74	54	-5.81			
7440	H H	46.52		-0.96	45.56	-	74	54	-8.44			
4960	V	56.03		-9.20	46.83		74	54	-7.17			
7440	V	45.67		-0.96	44.71		74	54	-9.29			
)							

Note:

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

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

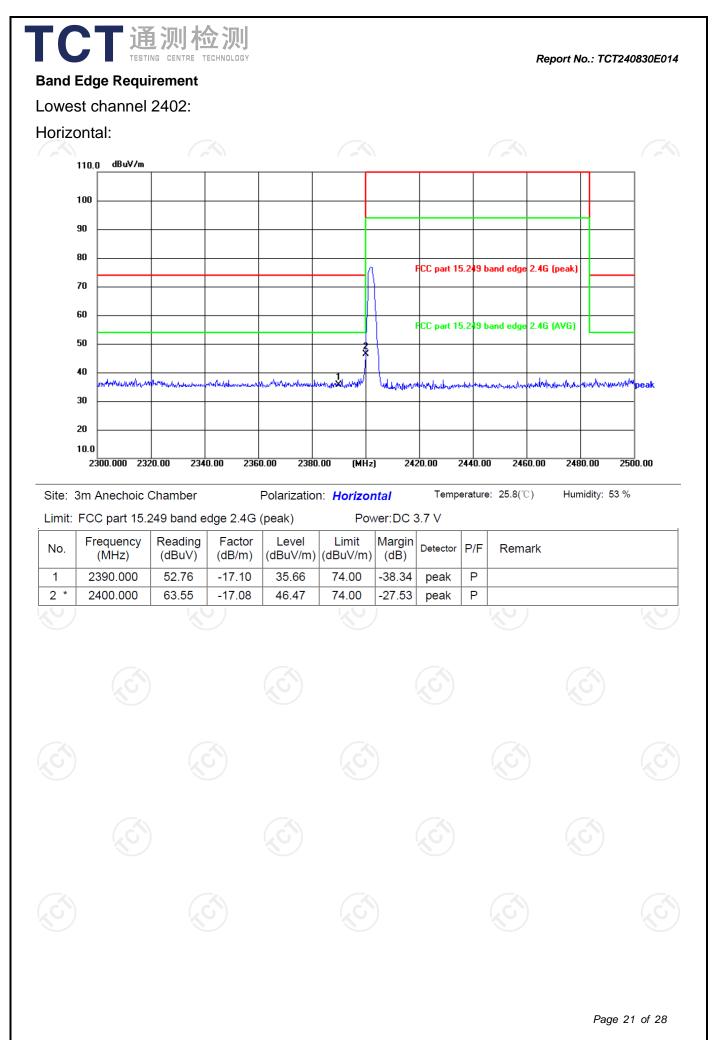
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All the restriction bands are compliance with the limit of 15.209.

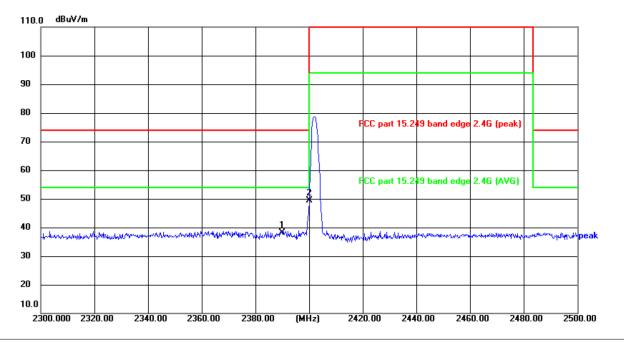
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Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 25.8(°C) Humidity: 53 %

Limit: FCC part 15.249 band edge 2.4G (peak) Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2390.000	55.29	-17.10	38.19	74.00	-35.81	peak	Р	
2 *	2400.000	66.48	-17.08	49.40	74.00	-24.60	peak	Ρ	



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Report No.: TCT240830E014 Highest channel 2480: Horizontal: 110.0 dBuV/m 100 90 80 FCC part 15.249 band edge 2.4G (peak) 70 60 FCC part 15.249 band edge 2.4G (AVG) 50 40 wingenerity Vit renormationadine and many hard and and a the the second manster 30 20

 Site: 3m Anechoic Chamber
 Polarization: Horizontal
 Temperature: 25.8(°C)
 Humidity: 53 %

 Limit: FCC part 15.249 band edge 2.4G (peak)
 Power:DC 3.7V
 Humidity: 53 %

2380.00

10.0

2300.000 2320.00

2340.00

2360.00

N	0.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	*	2483.500	56.36	-16.88	39.48	74.00	-34.52	peak	Ρ	

(MHz)

2420.00

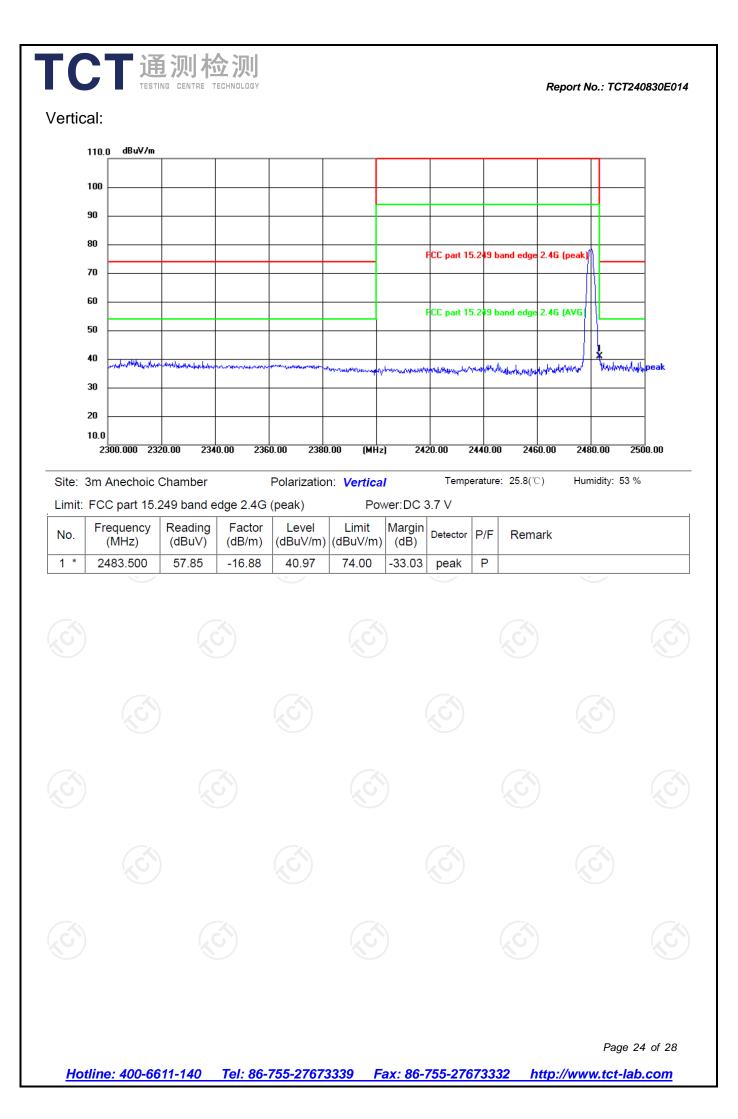
2440.00

2460.00

2480.00

2500.00







5.4. 20dB Occupied Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test results:	PASS

5.4.2. Test Instruments

uipment	Manufacturer	Model		
		meder	Serial Number	Calibration Due
ım Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
×			C	

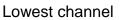
5.4.3. Test data

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	Test Channel		20dB Occupy Bandwidth (kHz)			Conclusion		
	Lowest	1100	(\mathbf{c})		(3)	PASS		
	Middle	1101				PASS	C	
	Highest	1109				PASS		
Т	est plots as follows:					(C)		

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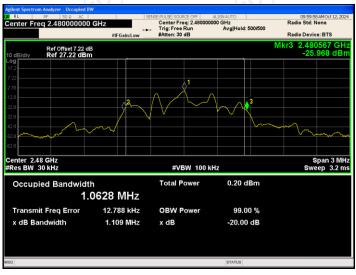




Middle channel



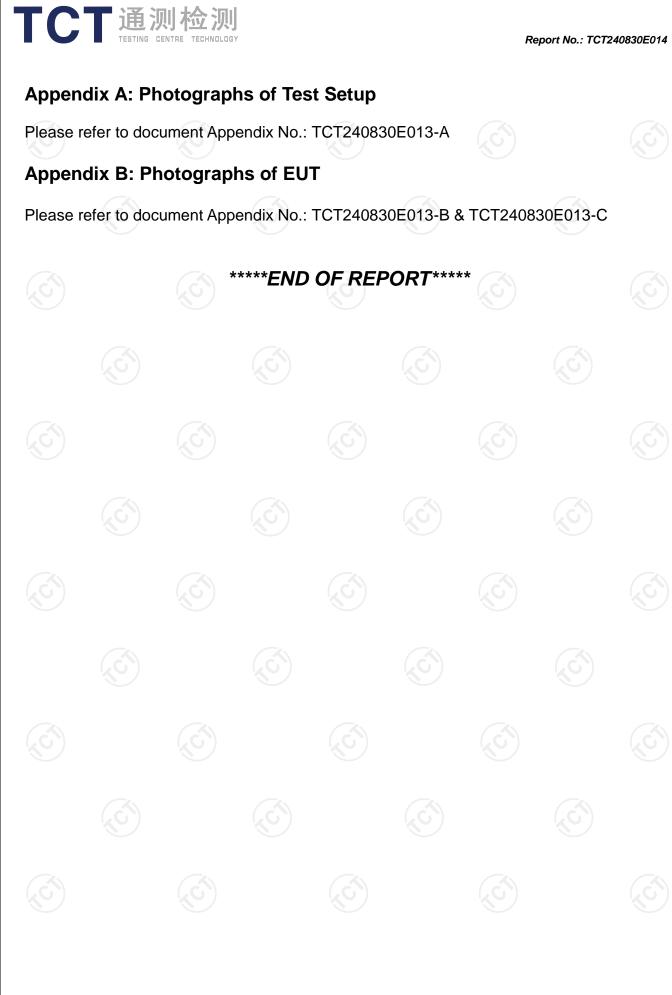
Highest channel



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