TCT通测检					
	TEST REPOR	Т			
FCC ID	2A3JH-PC406A				
Test Report No::	TCT231023E019				
Date of issue:	Oct. 30, 2023				
Testing laboratory::	SHENZHEN TONGCE TESTING LAB				
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuha Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	Dongguan Yuzhenrong Trading Co., Ltd.				
Address:	Room 204 No.74 Humen Xinlian Humen Town Dongguan City Gu				
Manufacturer's name :	Dongguan Yuzhenrong Trading	Co., Ltd.			
Address:	Room 204 No.74 Humen Xinlian Humen Town Dongguan City Gu				
Standard(s):	FCC CFR Title 47 Part 15 Subpa ANSI C63.10:2013	art C Section 15.249			
Product Name::	Wireless multi-mode mechanical	keyboard			
Trade Mark:	N/A				
Model/Type reference :	PC406A	(C)			
Rating(s):	Rechargeable Li-ion Battery DC	3.7V			
Date of receipt of test item	Oct. 23, 2023				
Date (s) of performance of test:	Oct. 23, 2023 - Oct. 30, 2023				
Tested by (+signature) :	Onnado YE	Onnado JANGCE 7			
Check by (+signature) :	Beryl ZHAO	Boyle PCT)			
Approved by (+signature):	Tomsin	Jomsines 85			

General disclaimer:

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TCT通测检测 1.General Product Information

Report No.: TCT231023E019

1.1.EUT description

Product Name:	Wireless multi-mode mechanical keyboard					
Model/Type reference:	PC406A					
Sample Number:	TCT23102	23E018 -01	01			
Operation Frequency:	2403MHz-	~2480MHz				
Number of Channel:	16					
Modulation Technology:	GFSK			(\mathbf{c}^{*})		
Antenna Type:	PCB Anter	nna				
Antenna Gain:	-0.61dBi					
Rating(s):	Rechargea	able 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.

1.3.Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2403MHz	5	2422MHz	9	2441MHz	13	2463MHz
6)2	2407MHz	6	2426MHz	10	2445MHz	6 14	2466MHz 🔾
3	2414MHz	7	2436MHz	11	2453MHz	15	2473MHz
4	2419MHz	8	2439MHz	12	2459MHz	16	2480MHz

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2403MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

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TCT通测检测 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

Engineering mode:

3.1.Test Environment and Mode

Operating Environment:			
Condition	Conducted Emission	Radiated Emission	
Temperature:	23.5 °C	24.4 °C	
Humidity:	52 % RH	51 % RH	
Atmospheric Pressure:	1010 mbar	1010 mbar	
Test Software:			
Software Information:	BK32xx RF Test_V2.1.7		
Power Level:	0		
Test Mode:	· · · · · · · · · · · · · · · · · · ·		
Engineering mode:	Keep the EUT in continuous	s transmitting by select	

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
Adapter	EP-TA200	R37M4PR7QD4SE3		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: 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

Standard requirement:

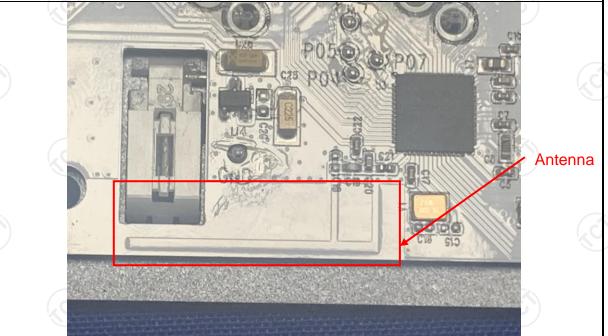
FCC Part15 C Section 15.203

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is -0.61dBi.



5.2.Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	
Test Method:	ANSI C63.10:2013		2
Frequency Range:	150 kHz to 30 MHz	<u>(</u> C)	$\langle \mathcal{O} \rangle$
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto
	Frequency range	Limit (dBuV)
	(MHz)	Quasi-peak	Average <
Limits:	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	Referenc	e Plane	
Test Setup:	40cm E.U.T AC powe Test table/Insulation plane	Filter	r AC power
Toot Modo	Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m	Receiver	0
Test Mode:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m Charging + Transmittir	Receiver etwork	ctod to the main
Test Mode: Test Procedure:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m	Receiver ang Mode ulators are conne e impedance state ovides a 500hm neasuring equipm ces are also conne ISN that provides e with 500hm tern diagram of the line are checked nce. In order to fin e positions of equipments s must be change	bilization network /50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and ed for maximum nd the maximum ipment and all o jed according to



5.2.2. Test Instruments

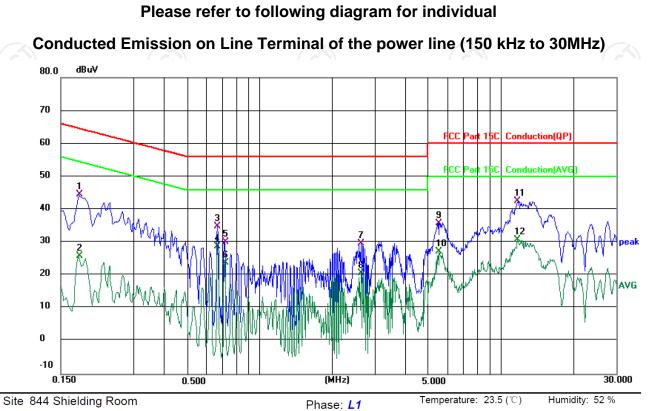
	Conducted Emission Shielding Room Test Site (843)									
	Equipment	Manufacturer Model Serial Number		Serial Number	Calibration Due					
0	EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024					
	Line Impedance Stabilisation Newtork(LISN)	bilisation Schwarzbeck NSLK 8126		8126453	Feb. 20, 2024					
	Line-5	ТСТ	CE-05	/	Jul. 03, 2024					
	EMI Test Software	Shurple Technology	EZ-EMC	1	1					



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5.2.3. Test data

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Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

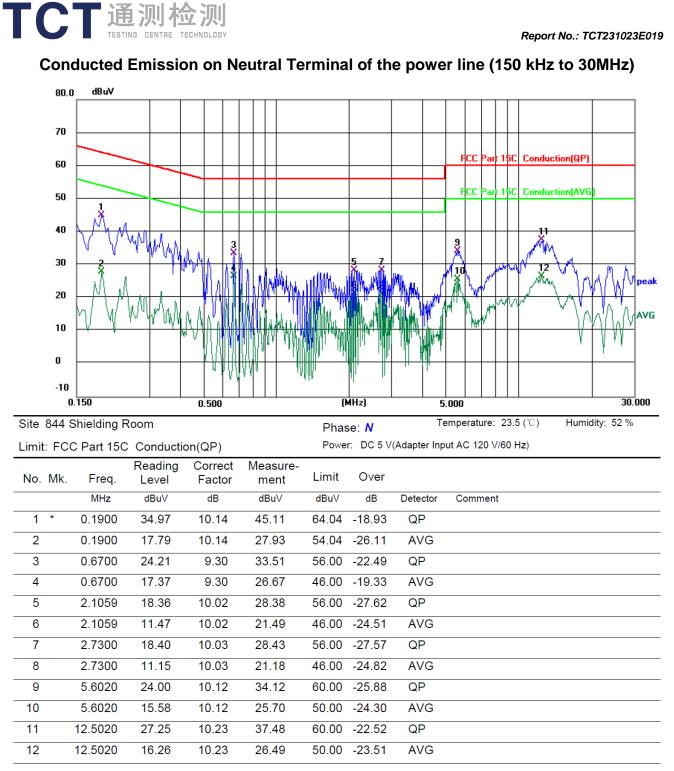
		0 1 0110 10	0 00114400					· · ·	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1780	34.33	10.13	44.46	64.58	-20.12	QP	
2		0.1780	15.79	10.13	25.92	54.58	-28.66	AVG	
3		0.6700	25.66	9.29	34.95	56.00	-21.05	QP	
4	*	0.6700	19.57	9.29	28.86	46.00	-17.14	AVG	
5		0.7180	20.85	9.24	30.09	56.00	-25.91	QP	
6		0.7180	14.56	9.24	23.80	46.00	-22.20	AVG	
7		2.6340	19.61	10.02	29.63	56.00	-26.37	QP	
8		2.6340	10.78	10.02	20.80	46.00	-25.20	AVG	
9		5.5460	25.73	10.10	35.83	60.00	-24.17	QP	
10		5.5460	17.17	10.10	27.27	50.00	-22.73	AVG	
11		11.7140	32.30	10.16	42.46	60.00	-17.54	QP	
12		11.7140	20.59	10.16	30.75	50.00	-19.25	AVG	

Note:

Freq. = Emission frequency in MHz Reading level (dBμV) = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB) Limit (dBμV) = Limit stated in standard Margin (dB) = Measurement (dBμV) – Limits (dBμV) 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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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 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.

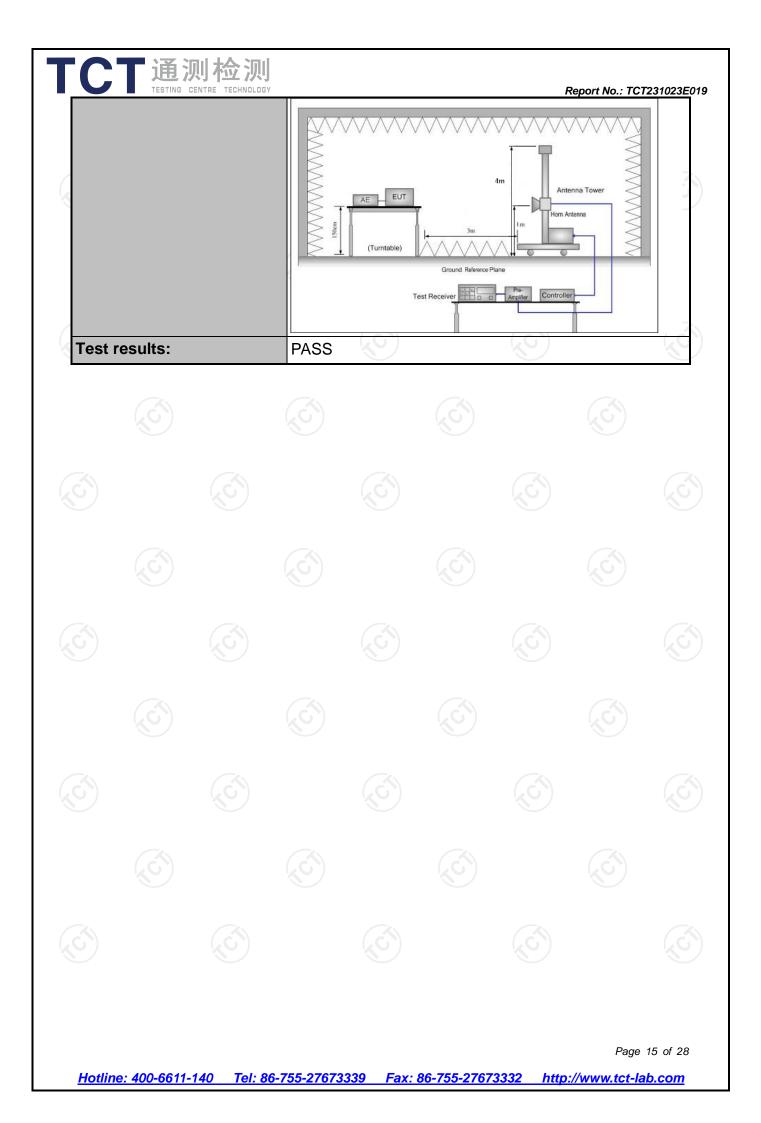
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5.3.Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15	5 C Section	n 15.209		
Test Method:	ANSI C63.1	0:2013			
Frequency Range:	9 kHz to 25	GHz			
Measurement Distance:	3 m	K	\mathbf{S}		
Antenna Polarization:	Horizontal &	& Vertical			
	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
Receiver Setup:	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
Limit(Field strength of the	Freque	ency	Limit (dBu	//m @3m)	Remark
fundamental signal):	2400MHz-24	183 5MHz	94.	00	Average Value
runuamentai signal).	2400101112-2-	+03.31VII 12	114	.00	Peak Value
	Freque	ency	Limit (dBu	//m @3m)	Remark
	0.009-0	0.490	2400/F	(KHz)	Quasi-peak Value
	0.490-1	.705	24000/	F(KHz)	Quasi-peak Value
	1.705	-30	3	0	Quasi-peak Value
Limit(Spurious Emissions):	30MHz-8	88MHz	40	.0	Quasi-peak Value
	88MHz-2	16MHz	43	.5	Quasi-peak Value
	216MHz-9		46		Quasi-peak Value
	960MHz	-1GHz	54		Quasi-peak Value
	Above '	1GHz	54 74		Average Value Peak Value
Limit (band edge) :	bands, exce least 50 dB	ept for har below the diated em	monics, s level of t ission lir	shall be a he funda nits in S	cified frequency attenuated by at mental or to the Section 15.209,
Test Procedure:	meters below 1GHz. determin 2. The El interfere on the to 3. The ante meters a value o vertical	above the IGHz, 1.5 The table ne the posi UT was nce-receiv op of a vari above the g f the field	ground a m above tion of the set 3 r ing anter able-heig t is varied ground to d strengt	at a 3 m e the gr otated 3 e highest neters a na, whic ght anten d from or determin h. Both	away from the ch was mounted

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	 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
	EUT U.Sam EUT U.Sam EUT Turn table Ground Plane 30MHz to 1GHz
Test setup:	EUT Antenna Tower FUT Antenna 4m 4m 4m 4m 1m 1m 1m Cround Plane
	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

TCT通测检测 TESTING CENTRE TECHNOLOGY

	Radiated Em	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 20, 2024
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Feb. 20, 2024
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 24, 2024
Antenna Mast	Keleto	RE-AM		
Coaxial cable	SKET	RC-18G-N-M	1	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	1	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC		1

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5.3.3. Test Data

Field Strength of Fundamental

	Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
	2403	86.81	Н	114	-27.19
	2403	77.78	V	114	-36.22
	2441	85.99	н	114	-28.01
	2441	78.69	V	114	-35.31
C.C.	2480	87.86	H	114	-26.14
	2480	76.91	V	114	-37.09

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2403	64.31	Н	94	-29.69
2403	58.76	V	94	-35.24
2441	63.18	Н	94	-30.82
2441	59.24	V	94	-34.76
2480	65.11	H (c	94	-29.89
2480	59.06	V	94	-34.94

Spurious Emissions

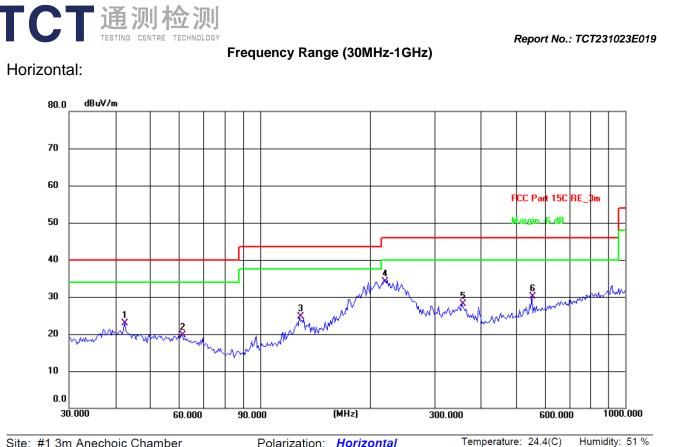
Frequency Range (9 kHz-30MHz)

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: #1 3m Anechoic Chamber Polarization: Horizontal

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	42.6000	9.03	13.88	22.91	40.00	-17.09	QP	Р	
2	60.9176	6.97	12.71	19.68	40.00	-20.32	QP	Р	
3	128.1130	11.54	13.12	24.66	43.50	-18.84	QP	Р	
4 *	218.3085	22.79	11.22	34.01	46.00	-11.99	QP	Р	
5	356.6758	12.84	15.26	28.10	46.00	-17.90	QP	Р	
6	554.8254	10.59	19.46	30.05	46.00	-15.95	QP	Ρ	

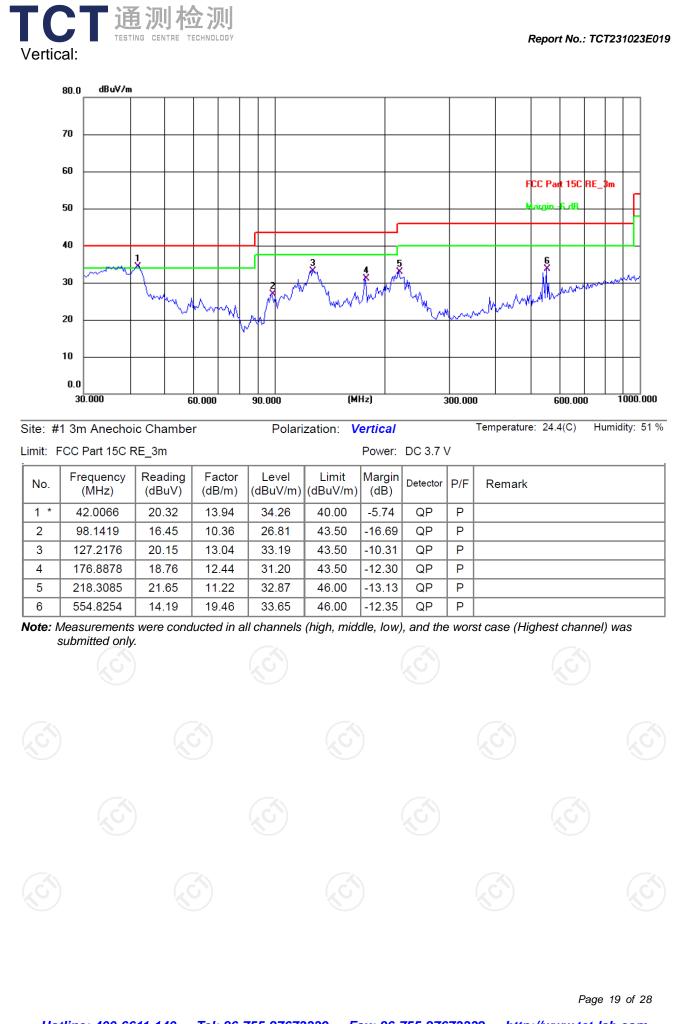








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			则检须	UJ ogy	Above	1GHz			Report No.: 1	CT231023E
					Low channe	el: 2403MH	Z			
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)			Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
/	4804	Н	49.02		-3.94	45.08		74	54	-8.92
K	7206	Н	44.63		0.52	45.15		74	54	-8.85
))							
	4804	V	50.57		-3.94	46.63		74	54	-7.37
	7206	V	45.10	-+ 6	0.52	45.62		74	54	-8.38
					/					

				N	liddle chann	el: 2441M	Hz			
/	Frequency Ant. Pol.		Peak	AV	Correction	Emissic	on Level	Peak limit	A\/ limit	Margin
	(MHz)	H/V	reading	reading	Factor	Peak	AV	(dBu)/m	(dBµV/m)	
2		11/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)			(UD)
	4882	Н	49.19		-3.98	45.21		74	54	-8.79
	7323	Н	44.56		0.57	45.13		74	54	-8.87
						/				
	4882	V	49.66		-3.98	45.68		74	54	-8.32
	7323	V	43.50		0.57	44.07		74	54	-9.93
								i		
((((ć

					A				
				High chann	el: 2480MH	lz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	Н	48.69		-3.98	44.71		74	54	-9.29
7440	H H	43.17		0.57	43.74	<u> </u>	74	54	-10.26
4960	V	51.22		-3.98	47.24		74	54	-6.76
7440	V	44.54		0.57	45.11		74	54	-8.89
)				🤍

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.

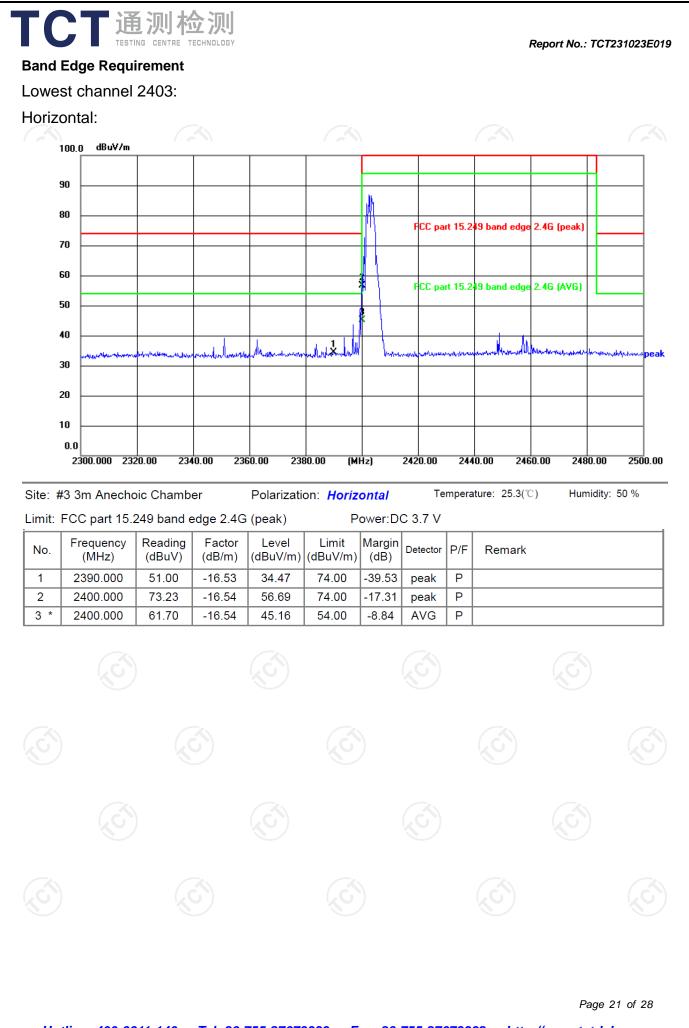
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

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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Report No.: TCT231023E019 Vertical: dBu¥/m 100.0 90 80 FCC part 15.249 band edge 2.4G (peak) 70 60 FCC part 15.249 band edge 2.4G (AVG) 50 40 1 all a dates eak 30 20 10 0.0 2300.000 2320.00 2340.00 2360.00 2380.00 2420.00 2460.00 2480.00 2500.00 (MHz) 2440.00 Polarization: Vertical Site: #3 3m Anechoic Chamber Temperature: 25.3(℃) Humidity: 50 % Limit: FCC part 15.249 band edge 2.4G (peak) Power:DC 3.7 V Frequency Reading Factor Level Limit Margin Detector P/F No. Remark (dB/m) (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) 74.00 2390.000 49.96 -16.53 33.43 -40.57 Ρ 1 peak 2 * 2400.000 61.08 -16.54 44.54 74.00 -29.46 Ρ peak Page 22 of 28

Report No.: TCT231023E019 Highest channel 2480: Horizontal: 100.0 dBuV/m 90 80 FCC part 15.249 band edge 2.4G (peak) 70 60 FCC part 15.249 band edge 2.4G (AVG) 50 40 May ł. h k renderted A. haller L. B. eak 30 20 10 0.0 2300.000 2320.00 2340.00 2360.00 2380.00 (MHz) 2420.00 2440.00 2460.00 2480.00 2500.00 Site: #3 3m Anechoic Chamber Temperature: 25.3(℃) Humidity: 50 % Polarization: Horizontal Power: DC 3.7 V Limit: FCC part 15.249 band edge 2.4G (peak) Frequency Reading Factor Level Limit Margin Detector P/F No. Remark (dBuV) (dB/m) (dBuV/m) (dBuV/m) (MHz) (dB) * 2483.500 64.70 -16.43 48.27 74.00 -25.73 Ρ 1 peak Page 23 of 28

10	0.0 dBu∀/m											
10												
90												
80							FCC par	t 15.2	19 band edge	2.4G (pea	k).	
70											₩_	
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e: #3 it: F(2300.000 232 3m Anecho CC part 15.2 Frequency	ic Chamb 249 band e Reading	er edge 2.4G Factor	Polarizatio (peak)	on: Vertic Po Limit	al ower:D0 Margin	Ter 2 3.7 V	mpera	ture: 25.3(℃			
e: #3 nit: F(2300.000 232 3m Anecho CC part 15.2 Frequency (MHz)	ic Chambo 249 band e Reading (dBuV)	er edge 2.4G Factor (dB/m)	Polarizatio (peak) Level (dBuV/m)	on: Vertic Po Limit (dBuV/m)	al ower:DC Margin (dB)	Ter C 3.7 V Detector	npera P/F				
e: #3 it: F(p. *	2300.000 232 3m Anecho CC part 15.2 Frequency (MHz) 2483.500	ic Chambo 249 band e Reading (dBuV) 55.24	er edge 2.4G Factor (dB/m) -16.43	Polarization (peak) Level (dBuV/m) 38.81	on: Vertic Po Limit (dBuV/m) 74.00	al ower:DC Margin (dB) -35.19	Ter C 3.7 V Detector peak	npera P/F P	ture: 25.3(°C Remark	C) H	umidity:	50 %
e: #3 iit: F(o. *	2300.000 232 3m Anecho CC part 15.2 Frequency (MHz)	ic Chambo 249 band e Reading (dBuV) 55.24 ents were c	er edge 2.4G Factor (dB/m) -16.43	Polarization (peak) Level (dBuV/m) 38.81	on: Vertic Po Limit (dBuV/m) 74.00	al ower:DC Margin (dB) -35.19	Ter C 3.7 V Detector peak	npera P/F P	ture: 25.3(°C Remark	C) H	umidity:	50 %
e: #3 it: F(p. *	2300.000 232 3m Anecho CC part 15.2 Frequency (MHz) 2483.500 <i>Measureme</i>	ic Chambo 249 band e Reading (dBuV) 55.24 ents were c	er edge 2.4G Factor (dB/m) -16.43	Polarization (peak) Level (dBuV/m) 38.81	on: Vertic Po Limit (dBuV/m) 74.00	al ower:DC Margin (dB) -35.19	Ter C 3.7 V Detector peak	npera P/F P	ture: 25.3(°C Remark	C) H	umidity:	50 %
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e: #3 it: F(b. *	2300.000 232 3m Anecho CC part 15.2 Frequency (MHz) 2483.500 <i>Measureme</i>	ic Chambo 249 band e Reading (dBuV) 55.24 ents were c	er edge 2.4G Factor (dB/m) -16.43	Polarization (peak) Level (dBuV/m) 38.81	on: Vertic Po Limit (dBuV/m) 74.00	al ower:DC Margin (dB) -35.19	Ter C 3.7 V Detector peak	npera P/F P	ture: 25.3(°C Remark	C) H	umidity:	50 %
e: #3 it: F(p. *	2300.000 232 3m Anecho CC part 15.2 Frequency (MHz) 2483.500 <i>Measureme</i>	ic Chambo 249 band e Reading (dBuV) 55.24 ents were c	er edge 2.4G Factor (dB/m) -16.43	Polarization (peak) Level (dBuV/m) 38.81	on: Vertic Po Limit (dBuV/m) 74.00	al ower:DC Margin (dB) -35.19	Ter C 3.7 V Detector peak	npera P/F P	ture: 25.3(°C Remark	C) H	umidity:	50 %
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e: #3 it: F(p. *	2300.000 232 3m Anecho CC part 15.2 Frequency (MHz) 2483.500 <i>Measureme</i>	ic Chambo 249 band e Reading (dBuV) 55.24 ents were c	er edge 2.4G Factor (dB/m) -16.43	Polarization (peak) Level (dBuV/m) 38.81	on: Vertic Po Limit (dBuV/m) 74.00	al ower:DC Margin (dB) -35.19	Ter C 3.7 V Detector peak	npera P/F P	ture: 25.3(°C Remark	C) H	umidity:	50 %
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e: #3 iit: F(o. *	2300.000 232 3m Anecho CC part 15.2 Frequency (MHz) 2483.500 <i>Measureme</i>	ic Chambo 249 band e Reading (dBuV) 55.24 ents were c	er edge 2.4G Factor (dB/m) -16.43	Polarization (peak) Level (dBuV/m) 38.81	on: Vertic Po Limit (dBuV/m) 74.00	al ower:DC Margin (dB) -35.19	Ter C 3.7 V Detector peak	npera P/F P	ture: 25.3(°C Remark	C) H	umidity:	50 %

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
Test Mode:	Transmitting mode with modulation
Test results:	PASS

5.4.2. Test Instruments

Equipment Spectrum Analyzer		Manufacturer	Model	Serial Number	Calibration Due Jun. 27, 2024	
		R&S	FSU	200054		
2	×			<i>S</i>	C	

5.4.3. Test data

Report No.: TCT231023E019

J.4.J. 103	i uala						
Test	Channel	20dB Occupy Bandwidth (kHz)		Limit		Conclusion	
L	owest	1850	(C)	(S.	PASS	
N	Viddle	1820				PASS	
Н	lighest	1838				PASS	
Test plots	s as follows:						

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Lowest channel



Middle channel



Highest channel

R RE 50 Q AC Center Freq 2.480000000 GHz 10:11:50 AMOct 26, 200 Radio Std: None Center Freq: 2.48000000 GHz Trig: Free Run Avg|Hold: 2000// **...** Radio Device: BTS 3 2.480916 G -30.603 dE Ref Offset 7.05 dB Ref 27.05 dBm Wyaym Jan Center 2.48 GHz Res BW 30 kHz Span 6 MHz Sweep 6.333 ms #VBW 100 kHz Occupied Bandwidth Total Power 1.25 dBm 1.9774 MHz -3.074 kHz Transmit Freq Error OBW Power 99.00 % x dB Bandwidth 1.838 MHz x dB -20.00 dB

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