	TEST REP	JRI			
FCC ID :	2AUARTPMST600				
Test Report No::	TCT231101E024				
Date of issue:	Nov. 27, 2023				
Testing laboratory: :	SHENZHEN TONGCE TE	STING LAB	- Al		
Testing location/ address:	2101 & 2201, Zhenchang Fuhai Subdistrict, Bao'an 518103, People's Republi	District, Shenzhen, Gua			
Applicant's name: :	THINKCAR TECH CO., L	rd.			
Address::	2606, building 4, phase II, Bantian, Longgang Distric		community,		
Manufacturer's name :	THINKCAR TECH CO., L	TD.	3		
Address:	2606, building 4, phase II, Bantian, Longgang Distric		community,		
Standard(s):	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013				
Product Name::	TPMS Diagnostic Tool				
Trade Mark :	THINKCAR, XHINKCAR,	MUCAR	S		
Model/Type reference :	ТКТТ6				
Rating(s):	Rechargeable Li-ion Batte	ry DC 3.7V			
Date of receipt of test item	Nov. 01, 2023		C		
Date (s) of performance of test:	Nov. 01, 2023 - Nov. 27, 2	2023	C)		
Tested by (+signature) :	Yannie ZHONG	Yannie Zoone	CETR		
Check by (+signature) :					
Approved by (+signature):	Tomsin				

test results in the report only apply to the tested sample.

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1. General Product Information

1.1. EUT description

Product Name:	TPMS Diagnostic Tool		
Model/Type reference:	тктт6	S S	
Sample Number:	TCT231101E023-0101		
Bluetooth Version:	V5.1 (This report is for BLE)		
Operation Frequency:	2402MHz~2480MHz		
Channel Separation:	2MHz	(c [*])	
Data Rate:	LE 1M PHY		
Number of Channel:	40		
Modulation Type:	GFSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	3.21dBi		
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

Report No.: TCT231101E024

2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
2404MHz)11	2424MHz	21	2444MHz	31	2464MHz
			_ <u></u>		<u> </u>	
2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Channel 0, 1	9 & 39 h	nave been tes	sted.	S I		No.
	2404MHz 2418MHz 2420MHz	2404MHz 11 2418MHz 18 2420MHz 19	2404MHz 11 2424MHz 2418MHz 18 2438MHz 2420MHz 19 2440MHz	2404MHz 11 2424MHz 21 2418MHz 18 2438MHz 28	2404MHz 11 2424MHz 21 2444MHz 2418MHz 18 2438MHz 28 2458MHz 2420MHz 19 2440MHz 29 2460MHz	2404MHz 11 2424MHz 21 2444MHz 31

1.3. Operation Frequency

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

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Frequency





2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	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.

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3. General Information

3.1. Test environment and mode

Operating Environment:			
Condition	Conducted Emission	Radiated Emission	
Temperature:	23.5 °C	24.1 °C	
Humidity:	52 % RH	54 % RH	
Atmospheric Pressure:	1010 mbar	1010 mbar	
Test Software:			
Software Information:	Engineering Mode		
Power Level:	Default		
Test Mode:			
Engineer mode: Keep the EUT in continuous 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
				1

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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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 /247(c)

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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is internal antenna which permanently attached, and the best case gain of the antenna is 3.21dBi.



5.2. Conducted Emission

5.2.1. Test Specification

			(
Test Requirement:	FCC Part15 C Section	15.207 😒	No. Contraction of the second	
Test Method:	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz	3		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=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	
	Referenc	e Plane		
Test Setup:	40cm E.U.T AC power Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m			
Test Mode:	Charging + Transmittir	ng Mode		
Test Procedure:	 The E.U.T is connerimpedance stabilizing provides a 500hm/5 measuring equipme The peripheral device power through a Licoupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10:2013 conducted interface 	ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm tern diagram of the line are checkence. In order to fin e positions of equals must be chang	(L.I.S.N.). This pedance for the ected to the main s a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum upment and all o ged according to	

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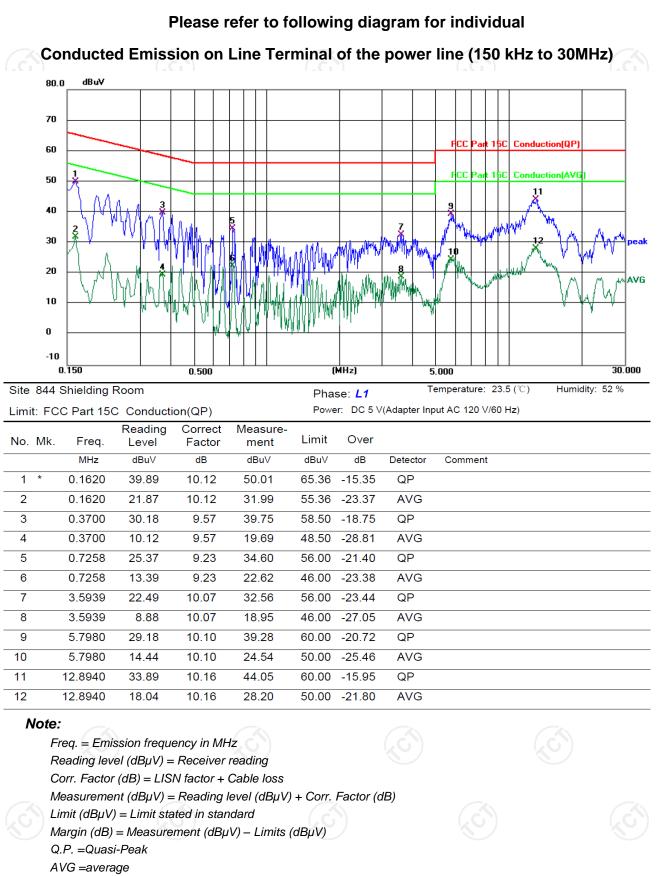
Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024		
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 20, 2024		
Line-5	ТСТ	CE-05	/	Jul. 03, 2024		
EMI Test Software	Shurple Technology	EZ-EMC	1	1 68		



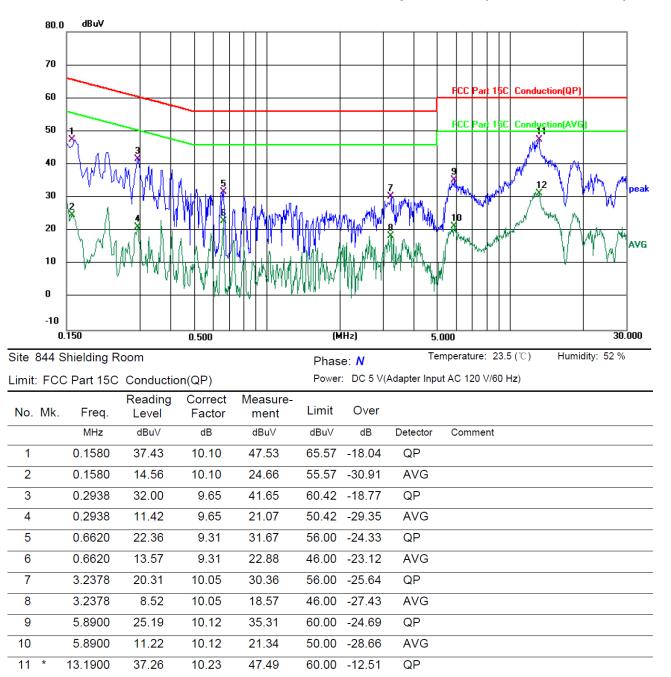
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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.2.3. Test data



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



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

Note1:

13.1900

21.06

10.23

31.29

12

-		
	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 30M	1Hz.

50.00 -18.71

AVG

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5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	
Test Mode:	Spectrum Analyzer Eur Refer to item 3.1 .1
Test Procedure:	 Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

5.3.2. Test Instruments

- 2					
	Name	Manufacturer	Model No.	Serial Number	Calibration Due
	Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
	Combiner Box	Ascentest	AT890-RFB	1	



5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	<u> </u>	



5.5. Power Spectral Density

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 v05r02
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

	\bigcirc			
Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector.
Test Procedure:	 Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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5.6.2. Test Instruments

	Name	Manufact	urer	Model No.	Seria	I Number	Calibratio	on Due
Spe An	ectrum alyzer	Agilen	t	N9020A	MY4	9100619	Jun. 28,	2024
	oiner Box	Ascente	est	AT890-RFB		1	/	

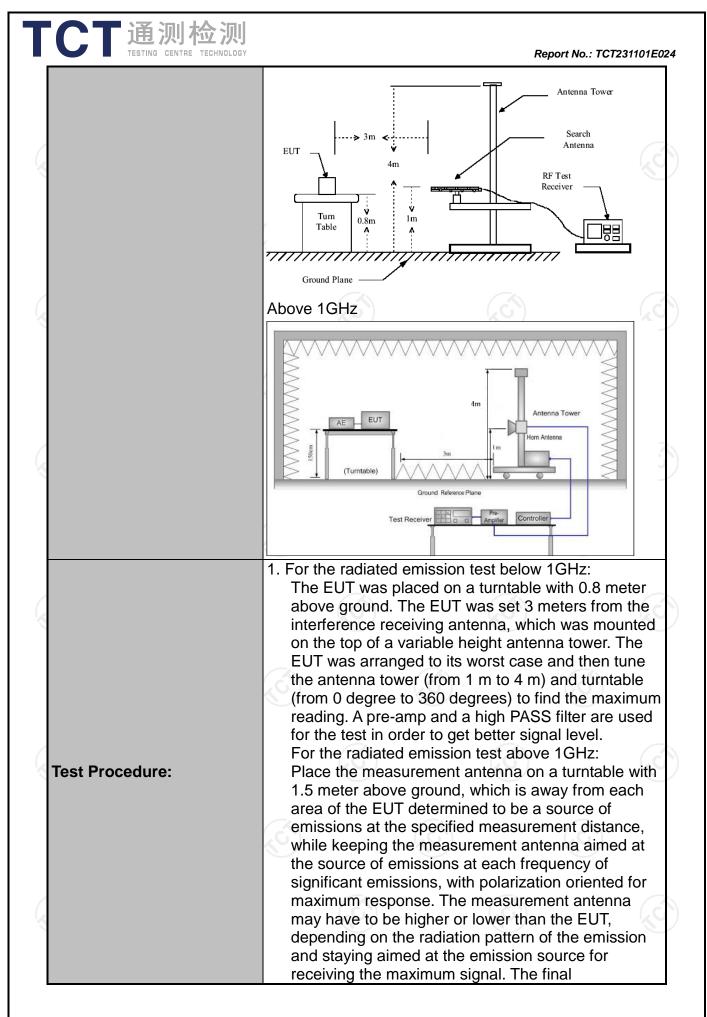
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	C Section	15.209					
Test Method:	ANSI C63.10): 2013						
Frequency Range:	9 kHz to 25 (GHz	- Al					
Measurement Distance:	3 m	N.	9		S.			
Antenna Polarization:	Horizontal &	Vertical						
Operation mode:	Refer to item	13.1	(3				
	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remark Quasi-peak Va	alue		
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Va	alue		
·	30MHz-1GHz	Quasi-peak		300KHz	Quasi-peak Va			
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Val			
	Frequen 0.009-0.4	-	Field Str (microvolts 2400/F(/meter)	Measuremen Distance (mete 300			
	0.490-1.7		24000/F		30			
	1.705-3		30		30			
	30-88		100		3			
Limit:	88-216		150		3			
Limit:	216-96 Above 9		<u>200</u> 500		3			
	A0076 3	00		5	6			
	Frequency	Field Strength (microvolts/mete		Measurer Distan (meter	ce Detector			
	Above 1GHz	,	500		Averag			
			5000	3	Peak	K		
	For radiated	emissions	s below 30	OMHz				
	Di	stance = 3m			Computer			
Test setup:	0.8m	Turn table		_	eceiver			
	1.0	Ground	I Plane					

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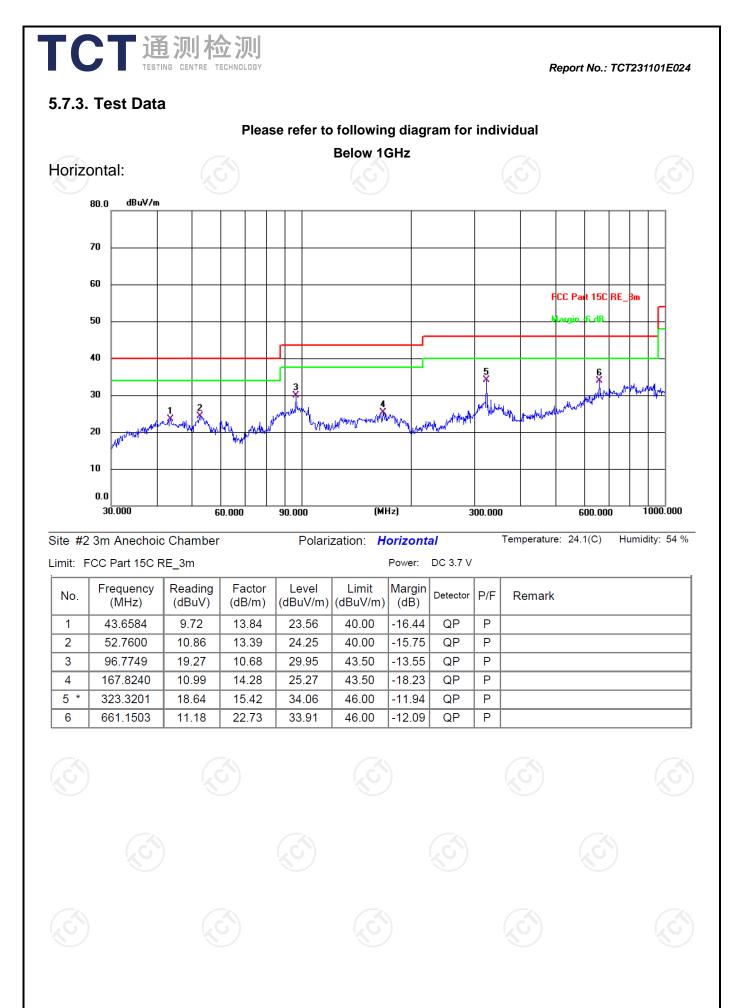


CT通测检测 TESTING CENTRE TECHNOLOGY	Report No.: TCT231101E0
	 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected 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 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

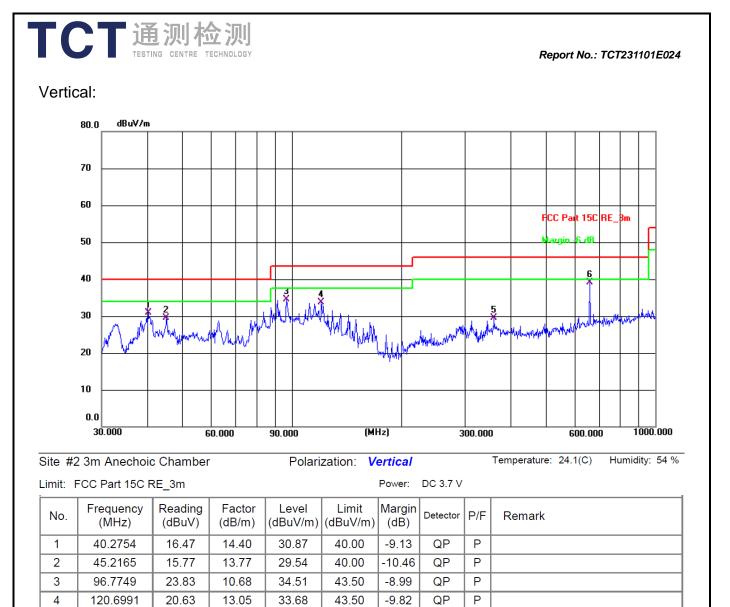
5.7.2. Test Instruments

TCT 通测检测 TESTING CENTRE TECHNOLOGY

	Radiated En	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		G
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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Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

46.00

46.00

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.

-16.46

-6.90

QP

QP

Ρ

Ρ

3. Freq. = Emission frequency in MHz

13.38

16.37

5

6

360.4476

661,1503

- Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$ Correction Factor= Antenna Factor + Cable loss – Pre-amplifier Limit $(dB\mu V/m) = Limit stated in standard$
- $Margin (dB) = Measurement (dB\mu V/m) Limits (dB\mu V/m)$

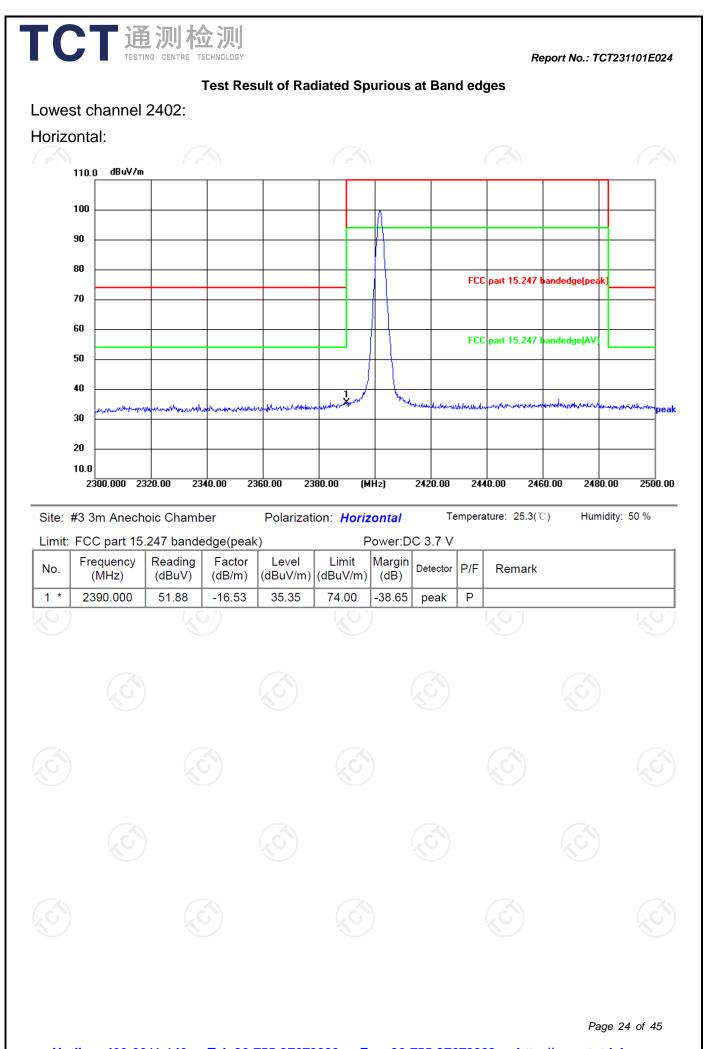
16.16

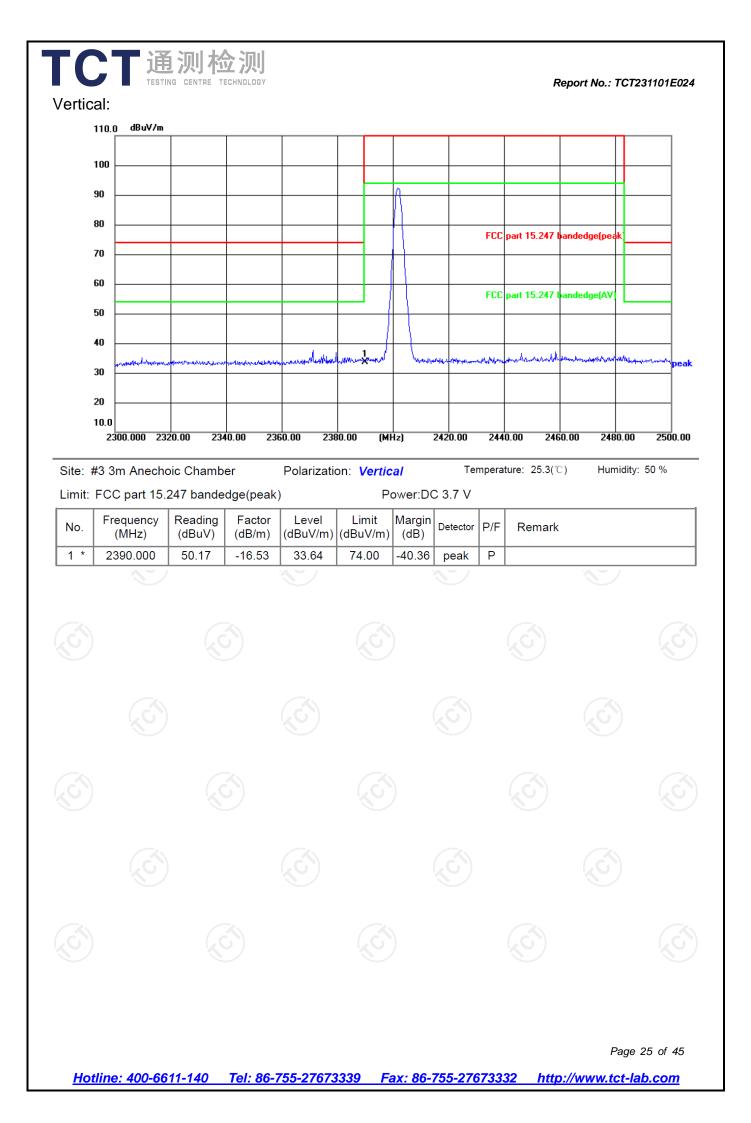
22.73

* is meaning the worst frequency has been tested in the test frequency range

29.54

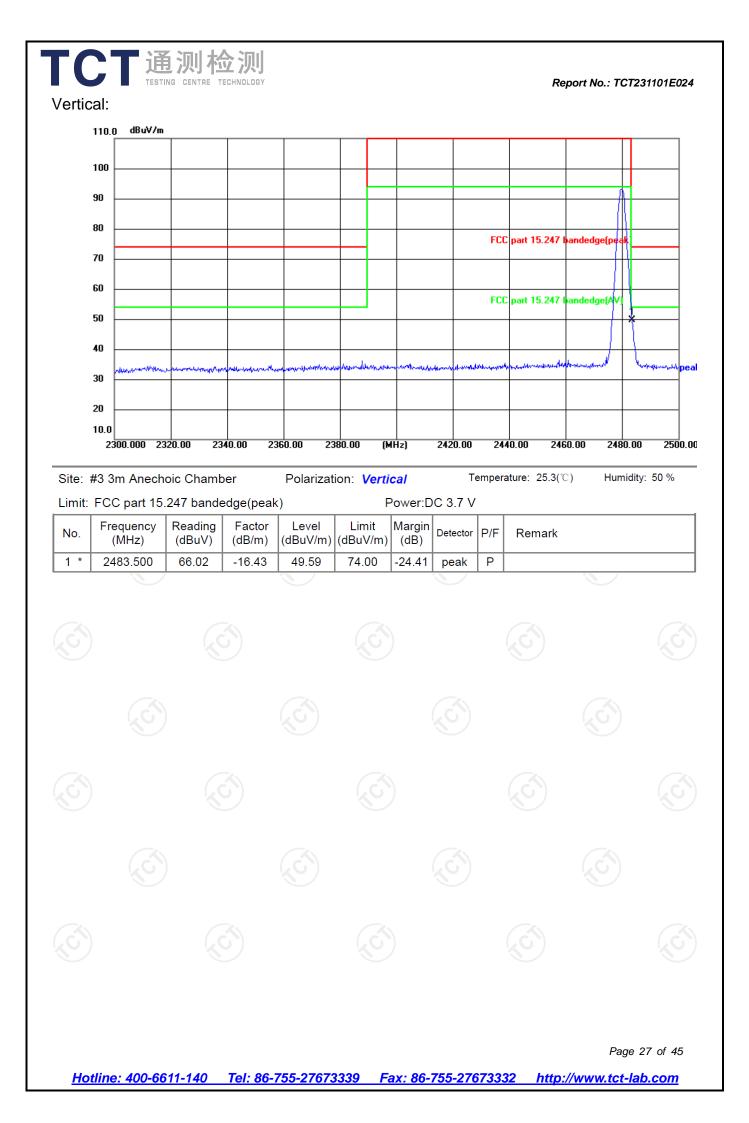
39.10





TC			 						R	eport No.	: TCT2:	31101E024
Highe	st channel	2480:										
Horizo	ontal:											
	110.0 dBuV/m		1									
	100											
	90											
	80										Ш	
	70							FCC	part 15.247 b	andedge(p	eak <u>;</u>	
	60											
	50							FCC	part 15.247 l	andedge(A	*	
	40											
	30	the and the set that we are	an sa	widenanion	mandeliment	shingle more	and and the second	lprenteren.	productions	and a strategy and a strategy and	2 hun	********peak
	20											
	10.0	20.00 22	10.00 22	CO 00 220	0.00 (4)		2420.00		0.00 040	0.00 24		2500.00
						-	2420.00				480.00	2500.00
	#3 3m Anecho			Polarizati		ontal ower:D0		nperat	ture: 25.3(°C	2) Hu	imidity:	50 %
L imit [.]	FUU DAD 15				P		/ V					
	FCC part 15. Frequency	Reading	Factor	Level	Limit	Margin		P/F	Remark			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		Remark			
	Frequency	Reading	Factor	Level	Limit	Margin	Detector peak	P/F P P	Remark			
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P	Remark			
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P			5	
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P			Ĵ)	
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No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P			j)	
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
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No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P				
No.	Frequency (MHz) 2483.500	Reading (dBuV) 71.87	Factor (dB/m) -16.43	Level (dBuV/m) 55.44	Limit (dBuV/m) 74.00	Margin (dB) -18.56	Detector peak	P			Page 2	26 of 45

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Low char	nnel: 2402	MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)		n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	44.91		0.66	45.57		74	54	-8.43
7206	Н	34.34		9.50	43.84		74	54	-10.16
	Н								
4804	V	45.29		0.66	45.95		74	54	-8.05
7206	Cν	34.08		9.50	43.58	<u>, G -}-</u>	74	54	-10.42
	V								

Above 1GHz

Middle channel: 2440 MHz

Fr	equency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	A\/	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4880	Н	43.46		0.99	44.45		74	54	-9.55
	7320	Н	34.21		9.87	44.08		74	54	-9.92
		Н			·	/	<u> </u>			
				Ň)				KO)	
	4880	V	45.58		0.99	46.57	<u> </u>	74	54	-7.43
	7320	V	36.76		9.87	46.63		74	54	-7.37
		V								

High chanr	nel: 2480 N	ЛНz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)		on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	H	44.03	-+ 6	1.33	45.36		74	54	-8.64
7440	H	35.92		10.22	46.14	<u> </u>	74	54	-7.86
	Н								
4960	V	44.73		1.33	46.06		74	54	-7.94
7440	V	35.51		10.22	45.73		74	54	-8.27
<u> </u>	V								

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.



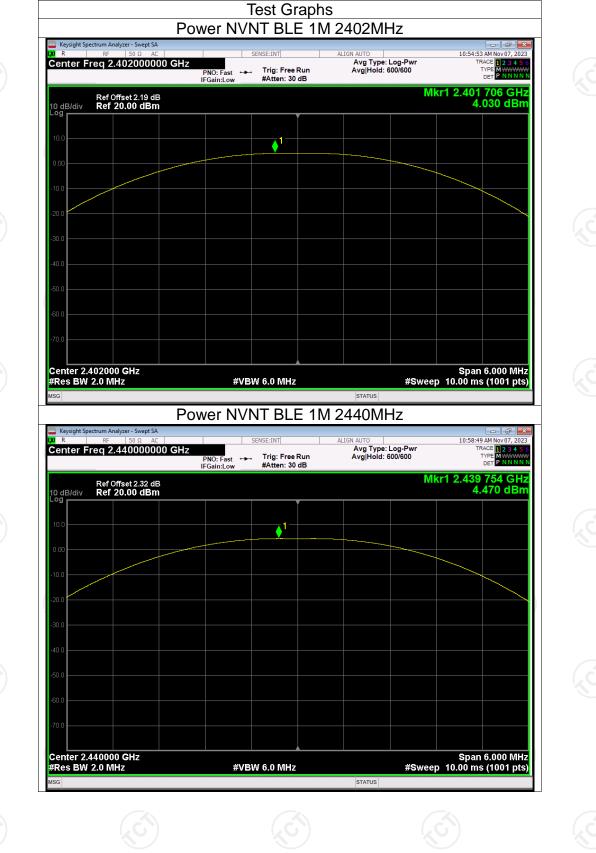
Appendix A: Test Result of Conducted Test

Maximum Conducted Output Power											
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict						
NVNT	BLE 1M	2402	4.03	30	Pass						
NVNT	BLE 1M	2440	4.47	30	Pass						
NVNT	BLE 1M	2480	4.33	30	Pass						



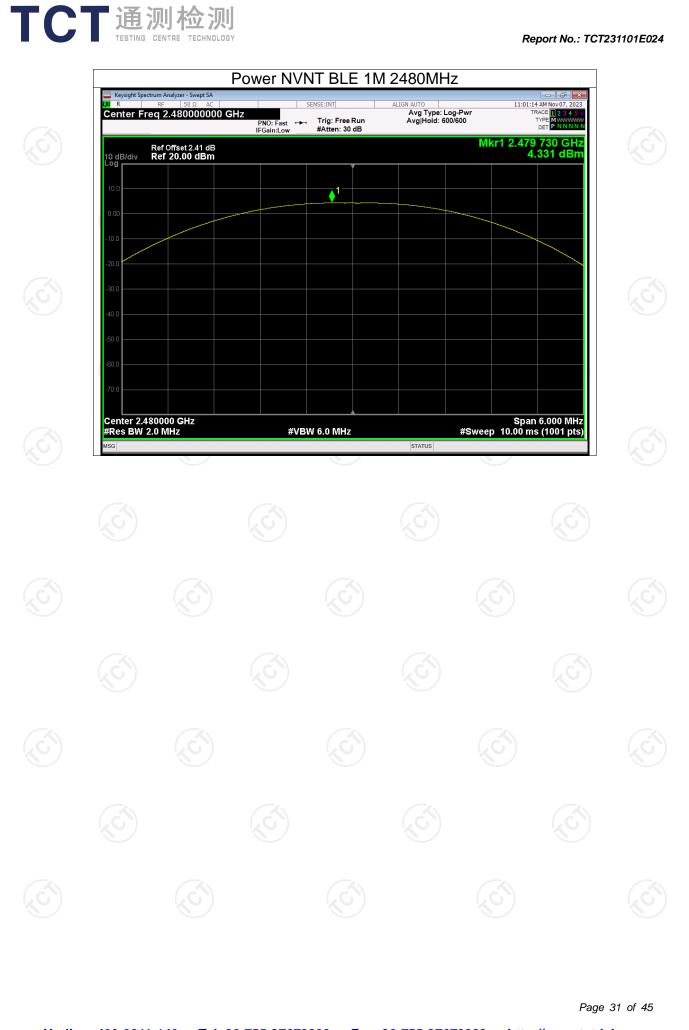
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TCT通测检测 TESTING CENTRE TECHNOLOGY

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Condition	Mode	Frequency	B Bandwidtl	dth Limit -		Verdict
NVNT NVNT NVNT	BLE 1M BLE 1M BLE 1M	(MHz) 2402 2440 2480	(MHz) 0.713 0.708 0.709	Bandwidt 0.9 0.9 0.9	5 5	Pass Pass Pass

TCT通测检测 TESTING CENTRE TECHNOLOGY



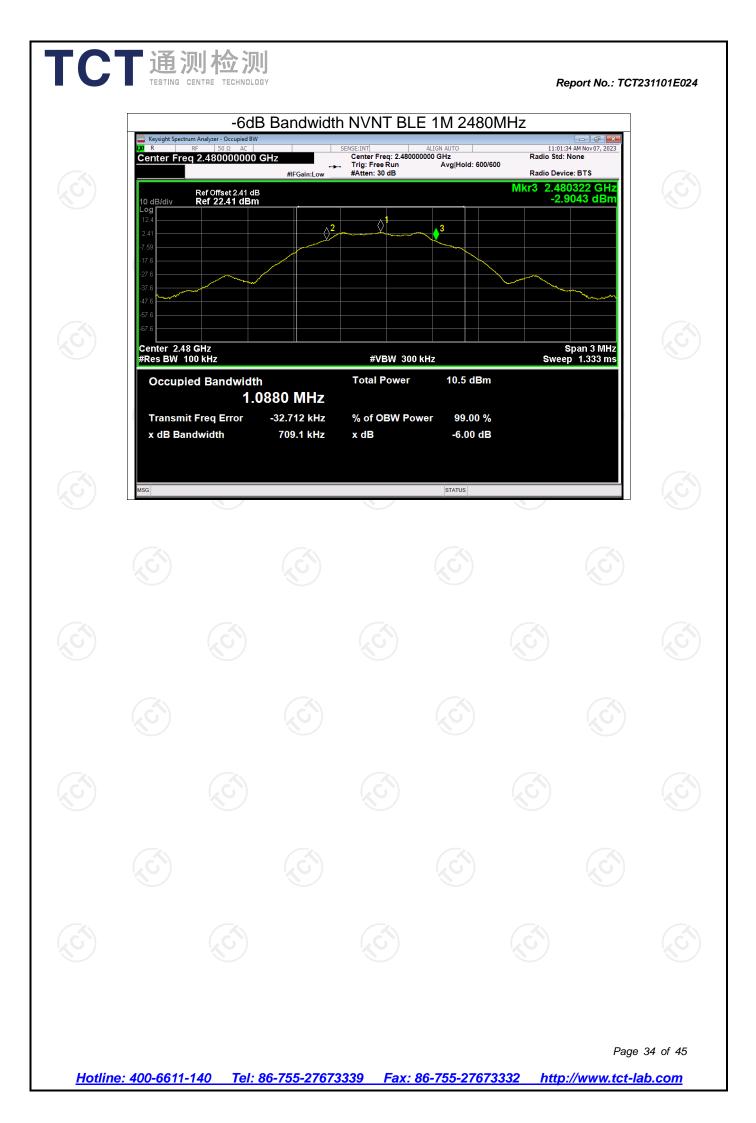
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Test Graphs -6dB Bandwidth NVNT BLE 1M 2402MHz

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Maximum Power Spectral Density Level									
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3KHz)	Limit (dBm/3KHz)	Verdict				
NVNT	BLE 1M	2402	-11.02	8	Pass				
NVNT	BLE 1M	2440	-10.59	8	Pass 🔍				
NVNT	BLE 1M	2480	-10.70	8	Pass				

vimum Power Spectral Density Level 8.4





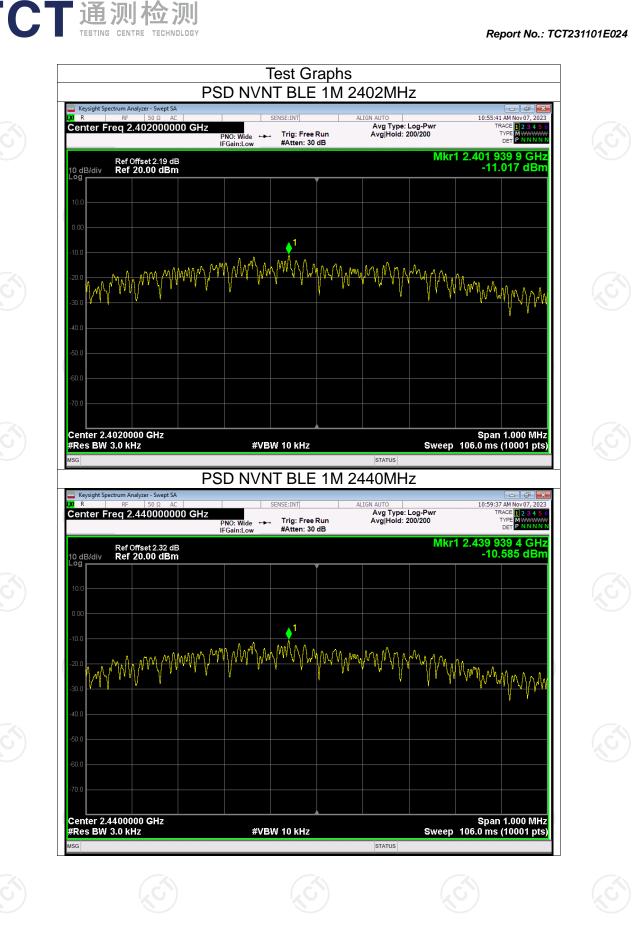


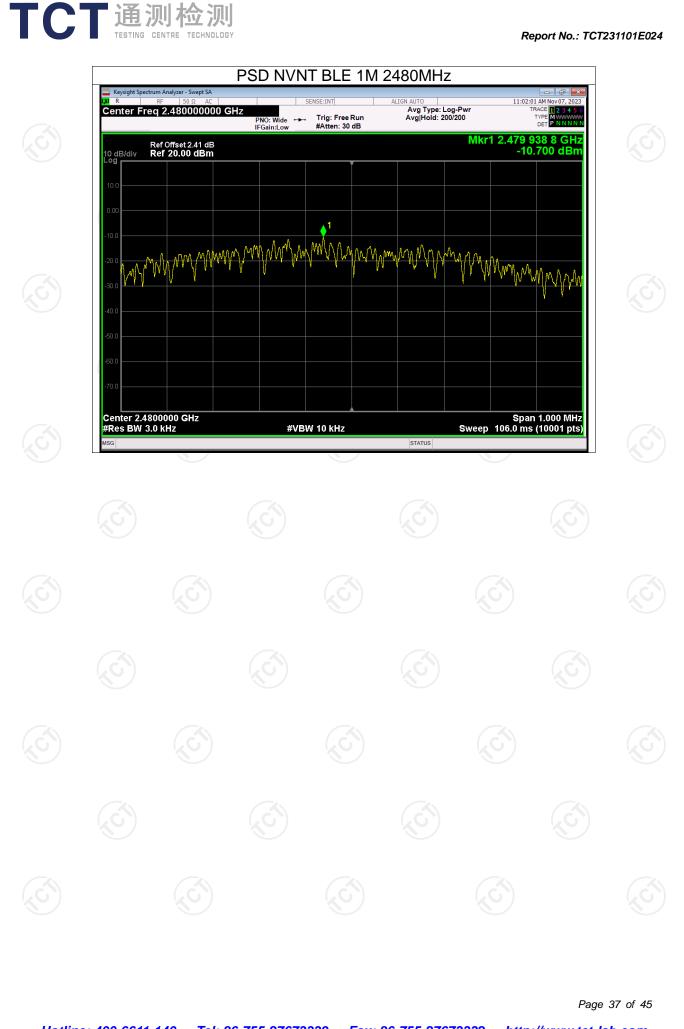






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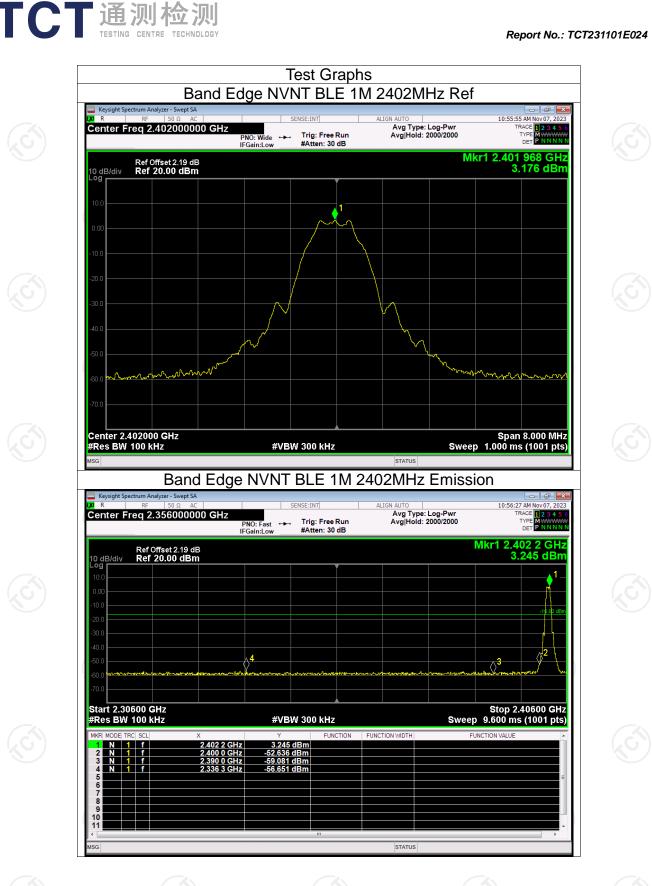


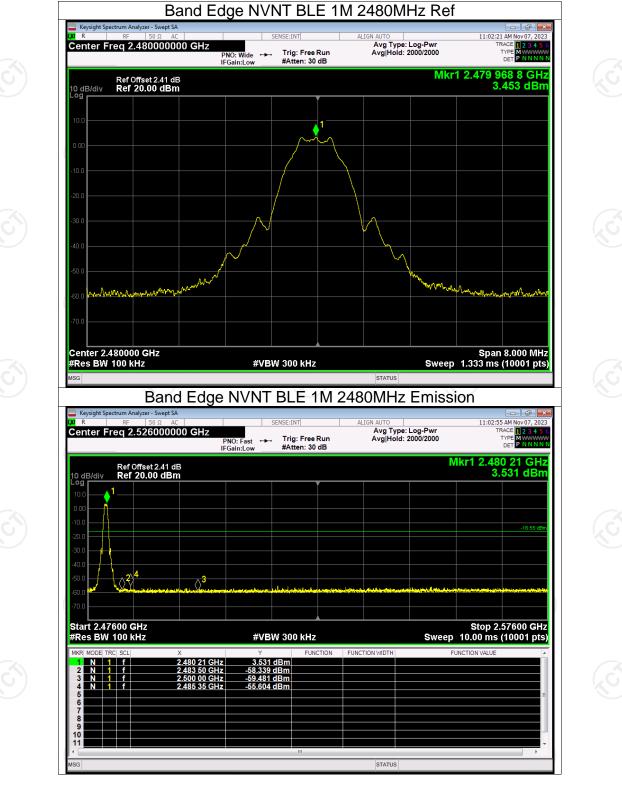


BLE 1M		2402 2480		-59.83 -59.05		-20 -20	Pass Pass
	0- <u>6611-140</u>	00-6611-140 Tel: 8	Image: Second state sta	Image: Solution of the sector of the sect	Image: Second state of the second s	Image: Second state of the second s	Image: Set of the set of

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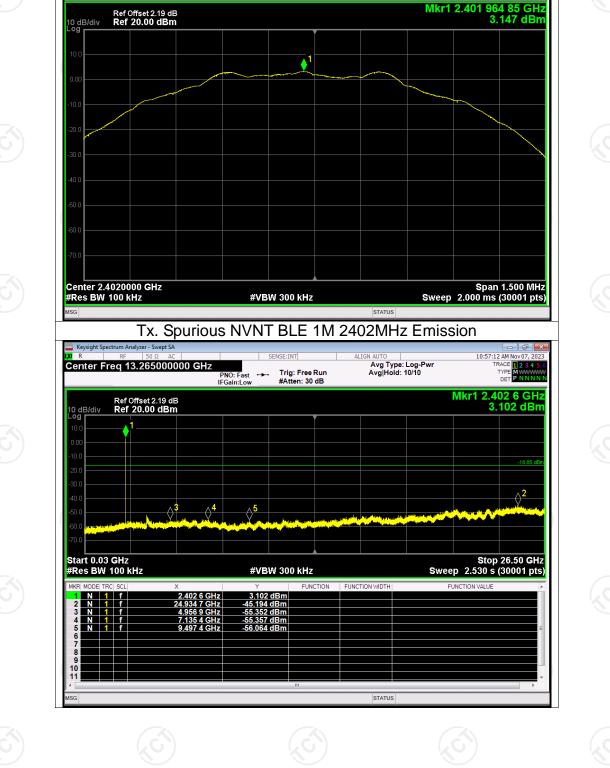


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тст	通测检测 TESTING CENTRE TECHNOL	JUJ .ogy			F	Report No.: TC	CT231101E024
Condition NVNT NVNT NVNT		nducted F equency (N 2402 2440 2480		Dus Emis x Value (dE -48.34 -48.64 -48.61		it (dBc) -20 -20 -20	Verdict Pass Pass Pass
<u>Hotline: 40</u>	00-6611-140 Tel:	: <u>86-755-2767:</u>	3339 Fax:	<u>86-755-2767:</u>	<u>3332 http</u>	Pag D://www.tct	ge 41 of 45 -lab.com



Test Graphs Tx. Spurious NVNT BLE 1M 2402MHz Ref

PNO: Wide ---- Trig: Free Run IFGain:Low #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold: 1000/1000

TCT通测检测 TESTING CENTRE TECHNOLOGY

Keysight Spectrum Analyzer - Swept SA

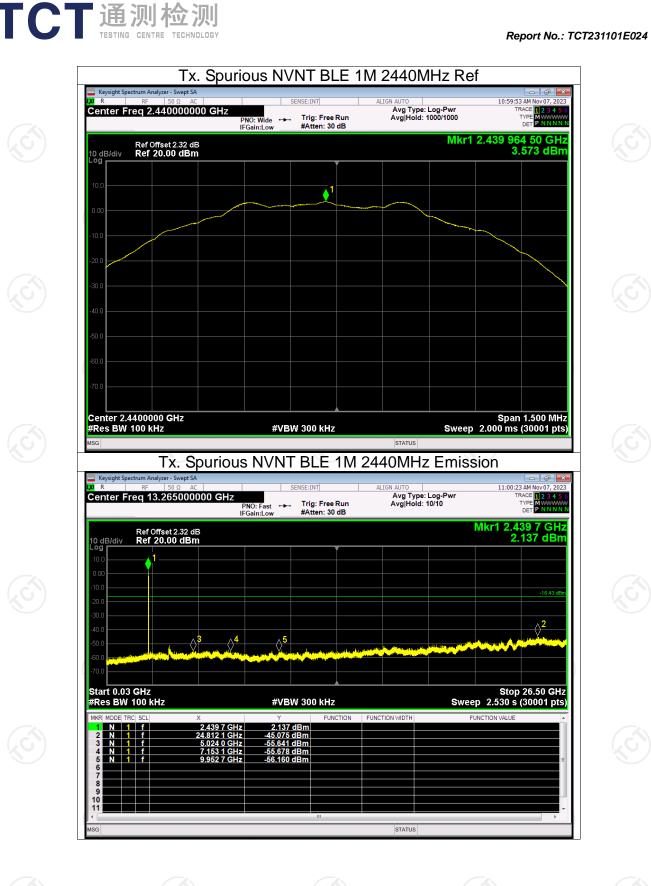
Center Freq 2.402000000 GHz

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- 67 **-** X 10:56:44 AM Nov 07, 2023

TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N



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🔤 Keysight Sp 11:03:11 AM Nov 07, 20 TRACE 1 2 3 4 TYPE M WWW DET P N N N K/R Avg Type: Log-Pwr Avg|Hold: 1000/1000 Center Freg 2.480000000 GHz Trig: Free Run #Atten: 30 dB TYPE DET PNO: Wide IFGain:Low -----Mkr1 2.479 962 80 GHz 3.434 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Loa Ø Center 2.4800000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 2.000 ms (30001 pts) #VBW 300 kHz STATUS Tx. Spurious NVNT BLE 1M 2480MHz Emission alyzer - Swept SA Keysight Spe 0 R 1:03:41 AM N Avg Type: Log-Pw Avg|Hold: 10/10 Center Freg 13.265000000 GHz Trig: Free Run #Atten: 30 dB TYPE PNO: Fast ↔→ IFGain:Low Mkr1 2.480 2 GHz 2.861 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log **r 2 ∱**5 04 \ominus^{3} Start 0.03 GHz #Res BW 100 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts) #VBW 300 kHz FUNCTION WIDTH TION N 1 f N 1 f N 1 f N 1 f N 1 f N 1 f N 1 f N 1 f N 1 f 2.480 2 GHz 24.757 4 GHz 5.063 7 GHz 7.312 8 GHz 10.078 9 GHz 2.861 dBm -45.182 dBm -55.407 dBm -56.089 dBm -54.544 dBm 456780 10 11 STATUS

Tx. Spurious NVNT BLE 1M 2480MHz Ref

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